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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: MC46340

Sampling Dates: 06/08/16 - 06/09/16

Report to:

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Total number of pages in report: **845**

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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SGS Accutest

Sample Summary

Anderson Mulholland and Assoc.

Job No: MC46340

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC46340-1	06/08/16	09:12	NR	06/11/16	AQ	Equipment Blank	EB-060816
MC46340-1A	06/08/16	09:12	NR	06/11/16	AQ	Equipment Blank	EB-060816
MC46340-2	06/08/16	12:43	NR	06/11/16	AQ	Ground Water	BR-3
MC46340-2A	06/08/16	12:43	NR	06/11/16	AQ	Ground Water	BR-3
MC46340-3	06/08/16	14:29	NR	06/11/16	AQ	Ground Water	BR-2
MC46340-3A	06/08/16	14:29	NR	06/11/16	AQ	Ground Water	BR-2
MC46340-4	06/08/16	14:53	NR	06/11/16	AQ	Ground Water	BR-2D
MC46340-4A	06/08/16	14:53	NR	06/11/16	AQ	Ground Water	BR-2D
MC46340-5	06/08/16	17:12	NR	06/11/16	AQ	Ground Water	BR-1
MC46340-5A	06/08/16	17:12	NR	06/11/16	AQ	Ground Water	BR-1
MC46340-6	06/09/16	12:53	NR	06/11/16	AQ	Ground Water	MW-11
MC46340-6A	06/09/16	12:53	NR	06/11/16	AQ	Ground Water	MW-11
MC46340-7	06/09/16	14:46	NR	06/11/16	AQ	Ground Water	S-38

SGS Accutest

Sample Summary
(continued)

Anderson Mulholland and Assoc.

Job No: MC46340

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC46340-7A	06/09/16	14:46	NR	06/11/16	AQ	Ground Water	S-38
MC46340-8	06/09/16	16:44	NR	06/11/16	AQ	Ground Water	S-28
MC46340-8A	06/09/16	16:44	NR	06/11/16	AQ	Ground Water	S-28

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Anderson Mulholland and Assoc.	**Job No**	MC46340
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	6/16/2016 11:39:59 A

8 Sample(s) were collected on between 06/08/2016 and 06/09/2016 and were received at SGS Accutest New England on 06/11/2016 properly preserved, at 2.5 Deg. C. These Samples received a job number of MC46340. 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:** GWX3791

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC46340-8MS, MC46340-8MSD were used as the QC samples indicated.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47843

- 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(MC46340).

Summary of Hits

Job Number: MC46340
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 06/08/16 thru 06/09/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46340-1	**EB-060816**					
No hits reported in this sample.						
MC46340-1A	**EB-060816**					
No hits reported in this sample.						
MC46340-2	**BR-3**					
No hits reported in this sample.						
MC46340-2A	**BR-3**					
No hits reported in this sample.						
MC46340-3	**BR-2**					
C9- C12 Aliphatics (Unadj.)		31.6 J	50	25	ug/l	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)		25.9 J	50	25	ug/l	MADEP VPH REV 1.1
MC46340-3A	**BR-2**					
No hits reported in this sample.						
MC46340-4	**BR-2D**					
C9- C12 Aliphatics (Unadj.)		33.7 J	50	25	ug/l	MADEP VPH REV 1.1
MC46340-4A	**BR-2D**					
C11-C22 Aromatics (Unadj.)		77.1 J	100	71	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		106	100	71	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		77.1 J	100	71	ug/l	MADEP EPH REV 1.1
MC46340-5	**BR-1**					
C5- C8 Aliphatics (Unadj.)		27.7 J	50	25	ug/l	MADEP VPH REV 1.1
MC46340-5A	**BR-1**					
C19-C36 Aliphatics		90.3 J	100	72	ug/l	MADEP EPH REV 1.1

Summary of Hits

Job Number: MC46340
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 06/08/16 thru 06/09/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46340-6	**MW-11**					
No hits reported in this sample.						
MC46340-6A	**MW-11**					
C19-C36 Aliphatics		86.7 J	100	73	ug/l	MADEP EPH REV 1.1
MC46340-7	**S-38**					
No hits reported in this sample.						
MC46340-7A	**S-38**					
C19-C36 Aliphatics		79.1 J	100	71	ug/l	MADEP EPH REV 1.1
MC46340-8	**S-28**					
No hits reported in this sample.						
MC46340-8A	**S-28**					
C19-C36 Aliphatics		85.2 J	110	80	ug/l	MADEP EPH REV 1.1

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	EB-060816		
Lab Sample ID:	MC46340-1	**Date Sampled:**	06/08/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/11/16
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	WX77123.D	1	06/14/16	AF	n/a	n/a	GWX3791
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	89%		70-130%
	2,3,4-Trifluorotoluene	93%		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:	EB-060816		
Lab Sample ID:	MC46340-1A	**Date Sampled:**	06/08/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/11/16
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	DE14600.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
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	57%		40-140%
321-60-8	2-Fluorobiphenyl	66%		40-140%
3386-33-2	1-Chlorooctadecane	52%		40-140%
580-13-2	2-Bromonaphthalene	66%		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

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Report of Analysis

Client Sample ID:	BR-3		
Lab Sample ID:	MC46340-2	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	WX77117.D	1	06/13/16	AF	n/a	n/a	GWX3791
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	86%		70-130%
	2,3,4-Trifluorotoluene	93%		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

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Report of Analysis

Client Sample ID:	BR-3		
Lab Sample ID:	MC46340-2A	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	DE14601.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	76	ug/l	
	C9-C18 Aliphatics	ND	110	76	ug/l	
	C19-C36 Aliphatics	ND	110	76	ug/l	
	C11-C22 Aromatics	ND	110	76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		40-140%
321-60-8	2-Fluorobiphenyl	66%		40-140%
3386-33-2	1-Chlorooctadecane	50%		40-140%
580-13-2	2-Bromonaphthalene	66%		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:	BR-2		
Lab Sample ID:	MC46340-3	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	WX77118.D	1	06/13/16	AF	n/a	n/a	GWX3791
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	31.6	50	25	ug/l	J
	C9- C10 Aromatics (Unadj.)	25.9	50	25	ug/l	J
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	86%		70-130%
	2,3,4-Trifluorotoluene	91%		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:	BR-2		
Lab Sample ID:	MC46340-3A	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	DE14602.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	78	ug/l	
	C9-C18 Aliphatics	ND	110	78	ug/l	
	C19-C36 Aliphatics	ND	110	78	ug/l	
	C11-C22 Aromatics	ND	110	78	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	51%		40-140%
321-60-8	2-Fluorobiphenyl	69%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%
580-13-2	2-Bromonaphthalene	68%		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:	BR-2D		
Lab Sample ID:	MC46340-4	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	WX77119.D	1	06/13/16	AF	n/a	n/a	GWX3791
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	33.7	50	25	ug/l	J
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		70-130%
	2,3,4-Trifluorotoluene	93%		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:	BR-2D		
Lab Sample ID:	MC46340-4A	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	DE14603.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
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.)	77.1	100	71	ug/l	J
	C9-C18 Aliphatics	ND	100	71	ug/l	
	C19-C36 Aliphatics	106	100	71	ug/l	
	C11-C22 Aromatics	77.1	100	71	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		40-140%
321-60-8	2-Fluorobiphenyl	68%		40-140%
3386-33-2	1-Chlorooctadecane	74%		40-140%
580-13-2	2-Bromonaphthalene	66%		40-140%

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:	BR-1		
Lab Sample ID:	MC46340-5	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	WX77120.D	1	06/13/16	AF	n/a	n/a	GWX3791
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.)	27.7	50	25	ug/l	J
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		70-130%
	2,3,4-Trifluorotoluene	93%		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:	BR-1		
Lab Sample ID:	MC46340-5A	**Date Sampled:**	06/08/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	DE14604.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	100	72	ug/l	
	C9-C18 Aliphatics	ND	100	72	ug/l	
	C19-C36 Aliphatics	90.3	100	72	ug/l	J
	C11-C22 Aromatics	ND	100	72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		40-140%
321-60-8	2-Fluorobiphenyl	65%		40-140%
3386-33-2	1-Chlorooctadecane	63%		40-140%
580-13-2	2-Bromonaphthalene	68%		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-11		
Lab Sample ID:	MC46340-6	**Date Sampled:**	06/09/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	WX77121.D	1	06/14/16	AF	n/a	n/a	GWX3791
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	88%		70-130%
	2,3,4-Trifluorotoluene	94%		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-11		
Lab Sample ID:	MC46340-6A	**Date Sampled:**	06/09/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	DE14605.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	100	73	ug/l	
	C9-C18 Aliphatics	ND	100	73	ug/l	
	C19-C36 Aliphatics	86.7	100	73	ug/l	J
	C11-C22 Aromatics	ND	100	73	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		40-140%
321-60-8	2-Fluorobiphenyl	74%		40-140%
3386-33-2	1-Chlorooctadecane	61%		40-140%
580-13-2	2-Bromonaphthalene	74%		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-38		
Lab Sample ID:	MC46340-7	**Date Sampled:**	06/09/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	WX77122.D	1	06/14/16	AF	n/a	n/a	GWX3791
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	89%		70-130%
	2,3,4-Trifluorotoluene	93%		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-38		
Lab Sample ID:	MC46340-7A	**Date Sampled:**	06/09/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	DE14606.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
Run #2							

	Initial Volume	Final Volume
Run #1	990 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	79.1	100	71	ug/l	J
	C11-C22 Aromatics	ND	100	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		40-140%
321-60-8	2-Fluorobiphenyl	67%		40-140%
3386-33-2	1-Chlorooctadecane	74%		40-140%
580-13-2	2-Bromonaphthalene	65%		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-28		
Lab Sample ID:	MC46340-8	**Date Sampled:**	06/09/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	WX77124.D	1	06/14/16	AF	n/a	n/a	GWX3791
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	88%		70-130%
	2,3,4-Trifluorotoluene	91%		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-28		
Lab Sample ID:	MC46340-8A	**Date Sampled:**	06/09/16
Matrix:	AQ - Ground Water	**Date Received:**	06/11/16
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	DE14607.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
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	85.2	110	80	ug/l	J
	C11-C22 Aromatics	ND	110	80	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		40-140%
321-60-8	2-Fluorobiphenyl	75%		40-140%
3386-33-2	1-Chlorooctadecane	72%		40-140%
580-13-2	2-Bromonaphthalene	75%		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

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

MA

Accutest Job #: MC46340
Accutest Quote #:

Client Information	Facility Information
Anderson Mulholland & Associates	Anderson Mulholland
Name: 2700 Westchester Avenue	Project Name:
Address: Purchase NY 10577	Location:
City: Terry Taylor State Zip	Project/PO #: 2Q16 Ground Water Sampling
Send Report to: Phone #: 914-251-0400	FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	~~VOCs, 8260C~~	~~SVOCs, 8270D~~	~~LMA, 8015B~~	~~Pesticides, 8081B~~	VMAVPH (3 VOC 2-HCL 95D MA)	BMAEPHR	~~1,4 Dioxane and naphthalene, Method 8270D SIM~~			
EB-060816 -1	6/8/16	0912	NR	GW	13	X				X	X	X	X		X	X	X			
BR-3 -2	6/8/16	1243	NR	GW	13	X				X	X	X	X		X	X	X			
BR-2 -3	6/8/16	1429	NR	GW	13	X				X	X	X	X		X	X	X			
BR-2D -4	6/8/16	1453	NR	GW	13	X				X	X	X	X		X	X	X			
BR-1 -5	6/8/16	1712	NR	GW	13	X				X	X	X	X		X	X	X			
MW-11 -6	6/9/16	1253	NR	GW	14	X				X	X	X	X	X	X	X	X			
S-38 -7	6/9/16	1446	NR	GW	14	X				X	X	X	X	X	X	X	X			
S-2B -8	6/9/16	1644	NR	GW	14	X				X	X	X	X	X	X	X	X			
~~TB060916~~	~~6/9/16~~	~~1644~~	~~NR~~	GW	~~2~~	~~X~~				~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~			
TB 060916	6/9/16	1644		TB	2	X					X									

Turnaround Information

- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] NJ Reduced Category B
- [ ] State Forms

INITIAL ASSESSMENT
LABEL VERIFICATION

Comments / Remarks

Federal Express ID # 8012195359 71
Lab Trip Blank Date 5/9/16 Time 0930
For VOCs (8260C) add to report: Tetrahydrofuran, p-isopropyl toluene, 1-2-4 Trimethyl benzene, Benzyl choride and Tert amylchloride. For SVOCs (8270D) add to report: 1-methyl naphthalene

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Victoria M. Rivera	6/9/16 1900	1 Fed Ex	2 FED EX	6-10-16 9:45	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3 Fedex	6/11/16 11:00	3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserved where applicable	On Ice:
5		5	2, 4, 6, 8, 10, 360		yes 2.5, 1.6 c

MSL FED EX # 8012 1953 5971 1.9, 1.5, 1.4, 1.7, 2.0 °C IP

MC46340: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: MC46340 **Client:** ANDERSON **Project:** 2Q16 GWS

Date / Time Received: 6/11/2016 11:00:00 AM **Delivery Method:** FED **Airbill #'s:** 5633 9349 2348

Cooler Temps (Initial/Adjusted): #1: (2.5/2.5); #2: (1.6/1.6);

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

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IRGUN1
3. Cooler media:	Ice (Bag)
4. No. Coolers:	2

Quality Control Preservation	Y	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 rec'd within HT:	☑ ☐
2. All containers accounted for:	☐ ☑
3. Condition of sample:	Broken / Leaking

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

Comments

MC46340-1 REC 1-950 BROKEN
NO TRIP BLANK REC

Sample Receipt Summary - Problem Resolution

Job Number: MC46340

CSR: Robert Soll **Response Date** 6/13/2016

Response: Client notified of 1x 950ml recevied broken, sufficient volume remains.
No TB was sent to MA.

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC46340

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC46340-1	Collected: 08-JUN-16 09:12 By: NR		Received: 11-JUN-16 By: NT			
EB-060816						
MC46340-1	MADEP VPH REV 1.1	14-JUN-16 01:25	AF			VMAVPHR
MC46340-2	Collected: 08-JUN-16 12:43 By: NR		Received: 11-JUN-16 By: NT			
BR-3						
MC46340-2	MADEP VPH REV 1.1	13-JUN-16 21:35	AF			VMAVPHR
MC46340-3	Collected: 08-JUN-16 14:29 By: NR		Received: 11-JUN-16 By: NT			
BR-2						
MC46340-3	MADEP VPH REV 1.1	13-JUN-16 22:14	AF			VMAVPHR
MC46340-4	Collected: 08-JUN-16 14:53 By: NR		Received: 11-JUN-16 By: NT			
BR-2D						
MC46340-4	MADEP VPH REV 1.1	13-JUN-16 22:53	AF			VMAVPHR
MC46340-5	Collected: 08-JUN-16 17:12 By: NR		Received: 11-JUN-16 By: NT			
BR-1						
MC46340-5	MADEP VPH REV 1.1	13-JUN-16 23:31	AF			VMAVPHR
MC46340-6	Collected: 09-JUN-16 12:53 By: NR		Received: 11-JUN-16 By: NT			
MW-11						
MC46340-6	MADEP VPH REV 1.1	14-JUN-16 00:09	AF			VMAVPHR
MC46340-7	Collected: 09-JUN-16 14:46 By: NR		Received: 11-JUN-16 By: NT			
S-38						
MC46340-7	MADEP VPH REV 1.1	14-JUN-16 00:47	AF			VMAVPHR
MC46340-8	Collected: 09-JUN-16 16:44 By: NR		Received: 11-JUN-16 By: NT			
S-28						
MC46340-8	MADEP VPH REV 1.1	14-JUN-16 02:03	AF			VMAVPHR

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC46340

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC46340-1A EB-060816	Collected: 08-JUN-16 09:12 By: NR		Received: 11-JUN-16 By: NT			
MC46340-1A	MADEP EPH REV 1.1	15-JUN-16 20:38	TA	14-JUN-16	AW	BMAEPHR
MC46340-2A BR-3	Collected: 08-JUN-16 12:43 By: NR		Received: 11-JUN-16 By: NT			
MC46340-2A	MADEP EPH REV 1.1	15-JUN-16 21:06	TA	14-JUN-16	AW	BMAEPHR
MC46340-3A BR-2	Collected: 08-JUN-16 14:29 By: NR		Received: 11-JUN-16 By: NT			
MC46340-3A	MADEP EPH REV 1.1	15-JUN-16 21:34	TA	14-JUN-16	AW	BMAEPHR
MC46340-4A BR-2D	Collected: 08-JUN-16 14:53 By: NR		Received: 11-JUN-16 By: NT			
MC46340-4A	MADEP EPH REV 1.1	15-JUN-16 22:02	TA	14-JUN-16	AW	BMAEPHR
MC46340-5A BR-1	Collected: 08-JUN-16 17:12 By: NR		Received: 11-JUN-16 By: NT			
MC46340-5A	MADEP EPH REV 1.1	15-JUN-16 22:30	TA	14-JUN-16	AW	BMAEPHR
MC46340-6A MW-11	Collected: 09-JUN-16 12:53 By: NR		Received: 11-JUN-16 By: NT			
MC46340-6A	MADEP EPH REV 1.1	15-JUN-16 22:58	TA	14-JUN-16	AW	BMAEPHR
MC46340-7A S-38	Collected: 09-JUN-16 14:46 By: NR		Received: 11-JUN-16 By: NT			
MC46340-7A	MADEP EPH REV 1.1	15-JUN-16 23:26	TA	14-JUN-16	AW	BMAEPHR
MC46340-8A S-28	Collected: 09-JUN-16 16:44 By: NR		Received: 11-JUN-16 By: NT			
MC46340-8A	MADEP EPH REV 1.1	15-JUN-16 23:54	TA	14-JUN-16	AW	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 06/11/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC46340-1.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-1.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-1.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-1.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-1.4	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-1.4	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-1.4	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-1.4	Michael Corron		06/15/16 07:38	Depleted
MC46340-2.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-2.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-2.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-2.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-2.5	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-2.5	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-2.5	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-2.5	Michael Corron		06/15/16 07:38	Depleted
MC46340-3.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-3.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-3.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-3.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-3.4	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-3.4	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-3.4	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-3.4	Michael Corron		06/15/16 07:38	Depleted
MC46340-4.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-4.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-4.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-4.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-4.4	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-4.4	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-4.4	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-4.4	Michael Corron		06/15/16 07:38	Depleted
MC46340-5.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-5.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-5.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-5.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 06/11/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC46340-5.5	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-5.5	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-5.5	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-5.5	Michael Corron		06/15/16 07:38	Depleted
MC46340-6.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-6.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-6.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-6.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-6.4	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-6.4	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-6.4	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-6.4	Michael Corron		06/15/16 07:38	Depleted
MC46340-7.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-7.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-7.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-7.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-7.4	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-7.4	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-7.4	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-7.4	Michael Corron		06/15/16 07:38	Depleted
MC46340-8.1	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-8.1	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-8.1	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-8.1	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-8.2	VOC Ref #5	Anthony Franciosa	06/13/16 14:14	Retrieve from Storage
MC46340-8.2	Anthony Franciosa	GCWX	06/13/16 14:14	Load on Instrument
MC46340-8.2	GCWX	Anthony Franciosa	06/14/16 07:23	Unload from Instrument
MC46340-8.2	Anthony Franciosa	VOC Ref #5	06/14/16 07:23	Return to Storage
MC46340-8.4	Walk In Ref #22	Ilir Capi	06/13/16 19:43	Retrieve from Storage
MC46340-8.4	Ilir Capi	Walk In Ref #22	06/13/16 22:06	Return to Storage
MC46340-8.4	Walk In Ref #22	Michael Corron	06/14/16 07:52	Retrieve from Storage
MC46340-8.4	Michael Corron		06/15/16 07:38	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: MC46340
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
GWX3791-MB	WX77105B.D	1	06/13/16	AF	n/a	n/a	GWX3791

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

MC46340-1, MC46340-2, MC46340-3, MC46340-4, MC46340-5, MC46340-6, MC46340-7, MC46340-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	91%	70-130%
	2,3,4-Trifluorotoluene	93%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC46340
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
GWX3791-BSP	WX77106.D	1	06/13/16	AF	n/a	n/a	GWX3791
GWX3791-BSD	WX77107.D	1	06/13/16	AF	n/a	n/a	GWX3791

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

MC46340-1, MC46340-2, MC46340-3, MC46340-4, MC46340-5, MC46340-6, MC46340-7, MC46340-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	147	98	146	97	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	109	73	119	79	9	70-130/25
	C9- C10 Aromatics (Unadj.)	50	45.8	92	46.3	93	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	88%	90%	70-130%
	2,3,4-Trifluorotoluene	93%	95%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC46340
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
MC46340-8MS	WX77125.D	1	06/14/16	AF	n/a	n/a	GWX3791
MC46340-8MSD	WX77126.D	1	06/14/16	AF	n/a	n/a	GWX3791
MC46340-8	WX77124.D	1	06/14/16	AF	n/a	n/a	GWX3791

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

MC46340-1, MC46340-2, MC46340-3, MC46340-4, MC46340-5, MC46340-6, MC46340-7, MC46340-8

CAS No.	Compound	MC46340-8 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	334	96	350	337	97	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		400	393	98	400	395	99	1	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	136	91	150	136	91	0	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC46340-8	Limits
	2,3,4-Trifluorotoluene	85%	88%	88%	70-130%
	2,3,4-Trifluorotoluene	91%	95%	91%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC46340
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]
MC46340-1	WX77123.D	89	93
MC46340-2	WX77117.D	86	93
MC46340-3	WX77118.D	86	91
MC46340-4	WX77119.D	87	93
MC46340-5	WX77120.D	87	93
MC46340-6	WX77121.D	88	94
MC46340-7	WX77122.D	89	93
MC46340-8	WX77124.D	88	91
GWX3791-BSD	WX77107.D	90	95
GWX3791-BSP	WX77106.D	88	93
GWX3791-MB	WX77105B.D	91	93
MC46340-8MS	WX77125.D	85	91
MC46340-8MSD	WX77126.D	88	95

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: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GWX3791-CC3782	**Injection Date:**	06/13/16
Lab File ID:	WX77105A.D	**Injection Time:**	13:22
Instrument ID:	GCWX	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	19.89	19.89

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GWX3791-MB	WX77105B.D	06/13/16	13:59	19.89	19.89
GWX3791-BSP	WX77106.D	06/13/16	14:37	19.89	19.89
GWX3791-BSD	WX77107.D	06/13/16	15:14	19.89	19.89
ZZZZZZ	WX77108.D	06/13/16	15:51	19.89	19.89
ZZZZZZ	WX77109.D	06/13/16	16:29	19.89	19.89
ZZZZZZ	WX77111.D	06/13/16	17:44	19.89	19.89
ZZZZZZ	WX77112.D	06/13/16	18:22	19.89	19.89
ZZZZZZ	WX77113.D	06/13/16	18:59	19.88	19.88
ZZZZZZ	WX77114.D	06/13/16	19:36	19.88	19.88
ZZZZZZ	WX77115.D	06/13/16	20:14	19.87	19.87
ZZZZZZ	WX77116.D	06/13/16	20:53	19.84	19.84
MC46340-2	WX77117.D	06/13/16	21:35	19.90	19.90
MC46340-3	WX77118.D	06/13/16	22:14	19.89	19.89
MC46340-4	WX77119.D	06/13/16	22:53	19.90	19.90
MC46340-5	WX77120.D	06/13/16	23:31	19.89	19.89
MC46340-6	WX77121.D	06/14/16	00:09	19.89	19.89
MC46340-7	WX77122.D	06/14/16	00:47	19.89	19.89
MC46340-1	WX77123.D	06/14/16	01:25	19.89	19.89
MC46340-8	WX77124.D	06/14/16	02:03	19.88	19.88
MC46340-8MS	WX77125.D	06/14/16	02:40	19.89	19.89
MC46340-8MSD	WX77126.D	06/14/16	03:18	19.89	19.89

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: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3782-ICC3782
Lab FileID: WX77020.D

Response Factor Report GCWX

Method : C:\msdchem\1\METHODS\wx160602vph.M (Chemstation Integrator)
Title : vph
Last Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration

Calibration Files
1 =wx77024.D 2 =wx77023.D 3 =wx77022.D 4 =wx77021.D
5 =wx77020.D 6 =wx77019.D 7 =wx77018.D 8 =wx77017.D
9 =wx77016.D =

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) rt5.5-7					2.366				2.366	2.366 E4	0.00
2) rt7/10					2.366				2.366	2.366 E4	0.00
3) rt10/13					2.366				2.366	2.366 E4	0.00
4) fluorobenzene	2.843	2.798	2.829	2.803	2.803	2.826	2.794	2.870	2.867	2.826 E4	1.03
5) rt13/16										0.000	-1.00
6) 2,3,4-trifluorotoluene	2.409	2.462	2.305	2.247	2.269	2.220	2.199	2.266	2.246	2.292 E4	3.83
7) rt16/20										0.000	-1.00
8) rt20/25					3.584				3.584	3.584 E4	0.00
9) rt25/29										0.000	-1.00
10) Decane					3.584				3.584	3.584 E4	0.00
11) Butylcyclohexane					3.584				3.584	3.584 E4	0.00
12) 2,5-dibromotoluene										0.000	-1.00
Signal #2											
14) mtbe #2	5.014	4.776	4.610	4.537	4.422	4.275	4.100	3.939	3.594	4.363 E3	10.05
15) benzene #2	1.476	1.453	1.445	1.438	1.407	1.403	1.383	1.404	1.376	1.421 E4	2.38
16) fluorobenzene #2	9.835	9.129	9.022	9.017	9.026	9.033	8.913	9.116	8.964	9.117 E3	3.04
17) toluene #2	1.302	1.342	1.300	1.293	1.288	1.276	1.249	1.278	1.250	1.286 E4	2.21
18) 2,3,4-trifluorotoluene #2	6.444	5.849	5.448	5.327	5.303	5.217	5.114	5.272	5.182	5.462 E3	7.81
19) ethylbenzene #2	1.213	1.190	1.161	1.151	1.138	1.130	1.104	1.121	1.093	1.145 E4	3.41
20) m,p-xylene #2	1.466	1.472	1.412	1.413	1.387	1.365	1.311	1.333	1.278	1.382 E4	4.84
21) o-xylene #2	1.235	1.153	1.179	1.183	1.165	1.155	1.131	1.146	1.106	1.161 E4	3.12
22) 1,3,5-trimethylbenzene #2	1.905	1.792	1.737	1.748	1.703	1.688	1.644	1.624	1.500	1.704 E4	6.66

Initial Calibration Summary

Job Number: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3782-ICC3782
Lab FileID: WX77020.D

```
23)  1,2,4-trimethylbenzene #2
           1.431 1.322 1.292 1.289 1.254 1.250 1.222 1.209 1.112   1.265 E4    6.90
24)  naphthalene #2
           0.683 0.782 0.889 0.976 1.061 1.060 1.006 0.876 0.683   0.891 E4   16.68
25)  c9-c10 arom as 1,2,4-tmb
           1.432 1.323 1.289 1.288 1.253 1.249 1.221 1.209 1.112   1.264 E4    6.93
26)  2,5-dibromotoluene #2
                                                                   0.000   -1.00
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          wx160602vph.M        Thu Jun 02 13:49:51 2016
```

Initial Calibration Verification

Job Number: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GWX3782-ICV3782
Lab FileID: WX77025.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   1:06 pm
Operator  : tonyf
Sample    : icv3782-50,gv16404
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:47:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise 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	23.663	20.776 E3	12.2	88	0.00
2	h	rt7/10	23.663	27.030 E3	-14.2	114	0.00
3	h	rt10/13	23.663	20.710 E3	12.5	88	0.00
4	s	fluorobenzene	28.259	27.560 E3	2.5	98	0.00
6	s	2,3,4-trifluorotoluene	22.916	21.862 E3	4.6	96	0.00
8	h	rt20/25	35.842	29.458 E3	17.8	82	0.00
10	h	Decane	35.842	28.589 E3	20.2	80	0.00
11	h	Butylcyclohexane	35.842	31.623 E3	11.8	88	0.00
Signal #2							
14		mtbe #2	4.363	4.222 E3	3.2	95	-0.05
15		benzene #2	14.206	13.579 E3	4.4	96	0.00
16	s	fluorobenzene #2	9.117	8.709 E3	4.5	96	0.00
17		toluene #2	12.865	12.359 E3	3.9	96	0.00
18	s	2,3,4-trifluorotoluene #2	5.462	5.035 E3	7.8	95	0.01
19		ethylbenzene #2	11.447	10.945 E3	4.4	96	0.00
20		m,p-xylene #2	13.817	13.270 E3	4.0	96	0.00
21		o-xylene #2	11.615	11.207 E3	3.5	96	0.00
22	t	1,3,5-trimethylbenzene #2	17.045	16.442 E3	3.5	97	0.00
23		1,2,4-trimethylbenzene #2	12.645	12.100 E3	4.3	97	0.00
24		naphthalene #2	8.908	9.907 E3	-11.2	93	0.00
25	h	c9-c10 arom as 1,2,4-tmb	12.640	12.085 E3	4.4	96	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: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3782-ICV3782
Lab FileID: WX77025.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

wx160602vph.M Fri Jun 03 12:26:41 2016
```

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GWX3791-CC3782
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** WX77105A.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77105a.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13 Jun 2016   1:22 pm
Operator  : tonyf
Sample    : cc3782-50
Misc      : gc26361,gwx3791,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 13:53:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise 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	23.663	21.392 E3	9.6	90	0.00
2 h	rt7/10	23.663	26.144 E3	-10.5	110	0.00
3 h	rt10/13	23.663	21.361 E3	9.7	90	0.00
4 s	fluorobenzene	28.259	26.482 E3	6.3	94	0.00
6 s	2,3,4-trifluorotoluene	22.916	21.081 E3	8.0	93	0.00
8 h	rt20/25	35.842	27.226 E3	24.0	76	0.00
10 h	Decane	35.842	25.960 E3	27.6#	72#	0.00
11 h	Butylcyclohexane	35.842	29.301 E3	18.2	82	0.00
Signal #2						
14	mtbe #2	4.363	4.199 E3	3.8	95	-0.04
15	benzene #2	14.206	13.231 E3	6.9	94	0.00
16 s	fluorobenzene #2	9.117	8.541 E3	6.3	95	0.00
17	toluene #2	12.865	12.026 E3	6.5	93	0.00
18 s	2,3,4-trifluorotoluene #2	5.462	4.845 E3	11.3	91	0.02
19	ethylbenzene #2	11.447	10.574 E3	7.6	93	0.00
20	m,p-xylene #2	13.817	12.917 E3	6.5	93	0.00
21	o-xylene #2	11.615	10.863 E3	6.5	93	0.00
22 t	1,3,5-trimethylbenzene #2	17.045	15.078 E3	11.5	89	0.00
23	1,2,4-trimethylbenzene #2	12.645	11.669 E3	7.7	93	0.00
24	naphthalene #2	8.908	10.191 E3	-14.4	96	0.01
25 h	c9-c10 arom as 1,2,4-tmb	12.640	11.661 E3	7.7	93	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: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3791-CC3782
Lab FileID: WX77105A.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

wx160613vph.M Tue Jun 14 10:39:00 2016
```

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GWX3791-CC3782
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** WX77128.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77128.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 14 Jun 2016   7:14 am
Operator  : tonyf
Sample    : cc3782-50
Misc      : gc26366,gwx3791,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 07:52:20 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise 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	23.663	20.760 E3	12.3	88	0.00
2	h	rt7/10	23.663	26.363 E3	-11.4	111	0.00
3	h	rt10/13	23.663	21.391 E3	9.6	90	0.00
4	s	fluorobenzene	28.259	27.511 E3	2.6	98	0.01
6	s	2,3,4-trifluorotoluene	22.916	21.887 E3	4.5	96	0.00
8	h	rt20/25	35.842	27.336 E3	23.7	76	0.00
10	h	Decane	35.842	25.870 E3	27.8#	72#	0.00
11	h	Butylcyclohexane	35.842	29.114 E3	18.8	81	0.00

Signal #2

14		mtbe #2	4.363	4.112 E3	5.8	93	-0.05
15		benzene #2	14.206	13.364 E3	5.9	95	0.00
16	s	fluorobenzene #2	9.117	8.588 E3	5.8	95	0.00
17		toluene #2	12.865	12.248 E3	4.8	95	0.00
18	s	2,3,4-trifluorotoluene #2	5.462	4.971 E3	9.0	94	0.02
19		ethylbenzene #2	11.447	10.787 E3	5.8	95	0.00
20		m,p-xylene #2	13.817	13.089 E3	5.3	94	0.00
21		o-xylene #2	11.615	11.076 E3	4.6	95	0.00
22	t	1,3,5-trimethylbenzene #2	17.045	15.388 E3	9.7	90	0.00
23		1,2,4-trimethylbenzene #2	12.645	11.896 E3	5.9	95	0.00
24		naphthalene #2	8.908	10.266 E3	-15.2	97	0.00
25	h	c9-c10 arom as 1,2,4-tmb	12.640	11.888 E3	5.9	95	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: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3791-CC3782
Lab FileID: WX77128.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

wx160613vph.M Tue Jun 14 10:39:04 2016
```

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:35:34 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.753	1337748	47.338 ppb
Spiked Amount 50.000		Recovery =	94.68%
6) s 2,3,4-trifluorotoluene	19.887	1071168	46.744 ppb
Spiked Amount 50.000		Recovery =	93.49%
16) s fluorobenzene #2	14.754	417709	45.815 ppb
Spiked Amount 50.000		Recovery =	91.63%
18) s 2,3,4-trifluorotoluen...	19.885	242424	44.386 ppb
Spiked Amount 50.000		Recovery =	88.77%
Target Compounds			
1) h rt5.5-7	6.100	49597	2.096 ppb
2) h rt7/10	8.370	47459	2.006 ppb
3) h rt10/13	13.510	101342	4.283 ppb
8) h rt20/25	21.600	87631	2.445 ppb
25) h c9-c10 arom as 1,2,4-tmb	24.870	103646	8.200 ppb

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

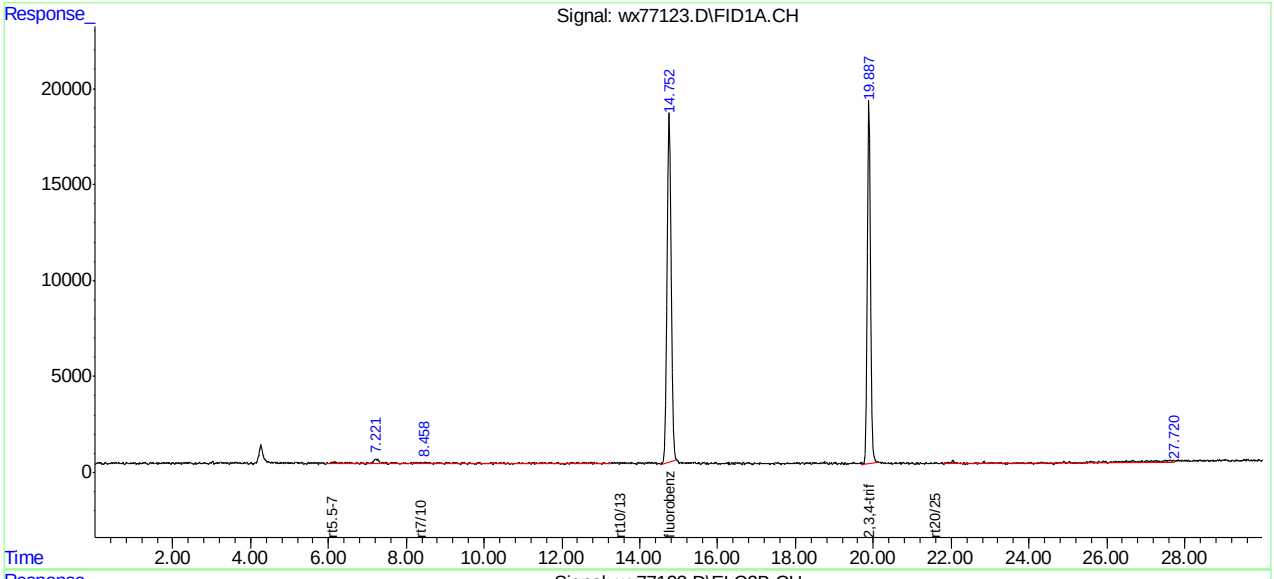
SGS ACCUTEST MC46340

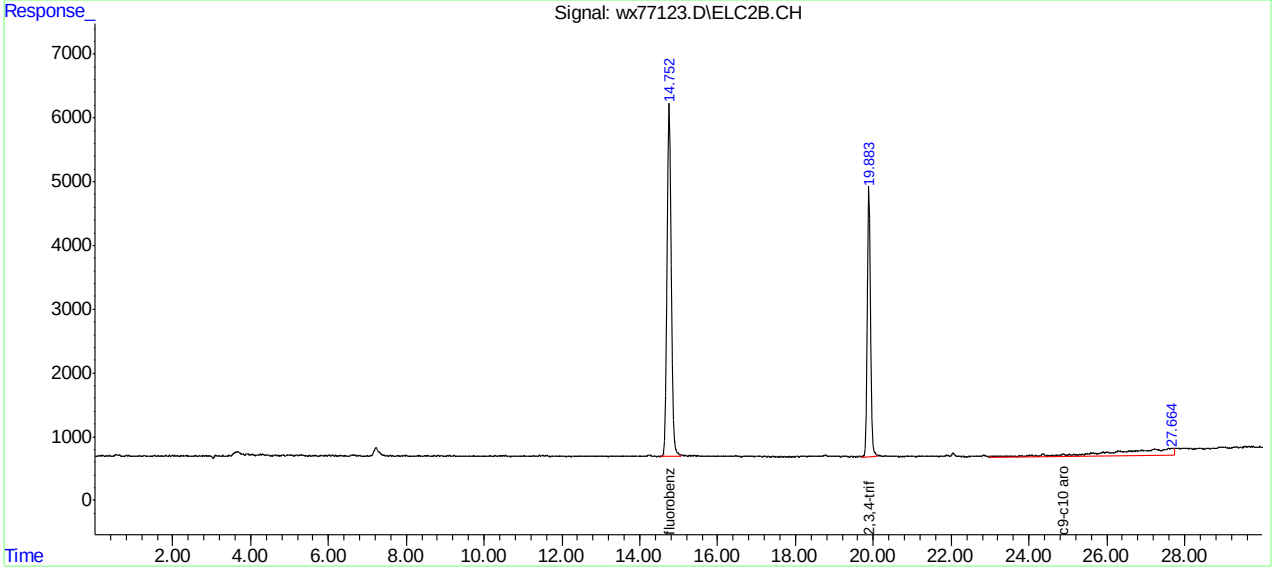
Quantitation Report (QT Reviewed)

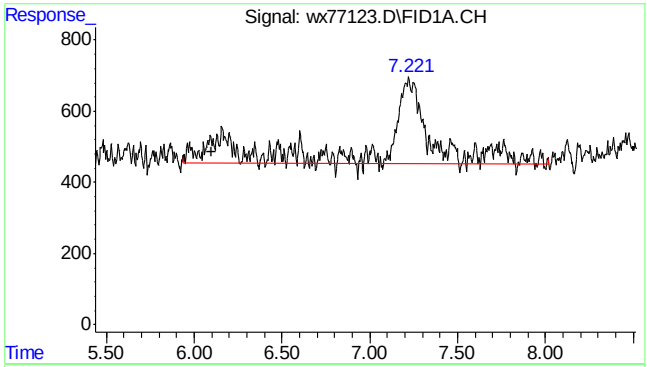
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:35:34 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

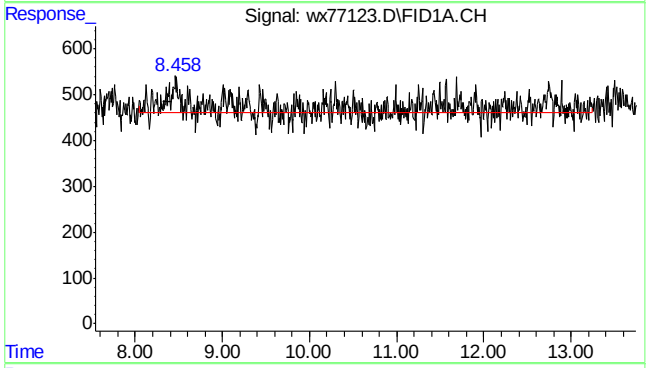






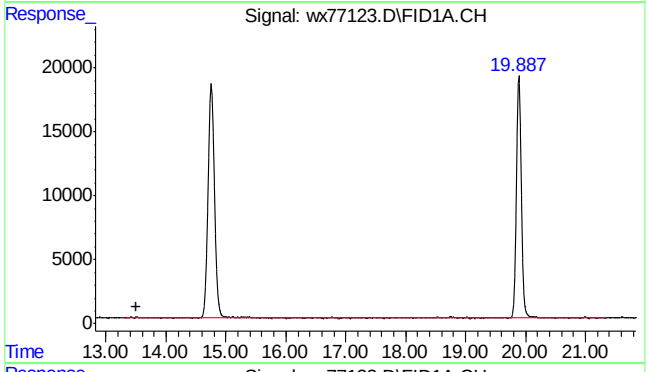
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 49597
Conc: 2.10 ppb m



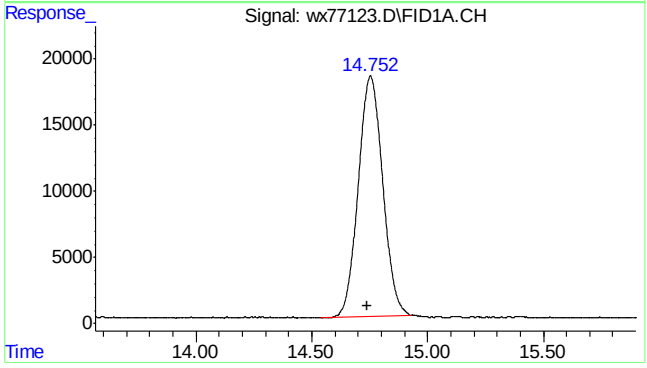
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 47459
Conc: 2.01 ppb m



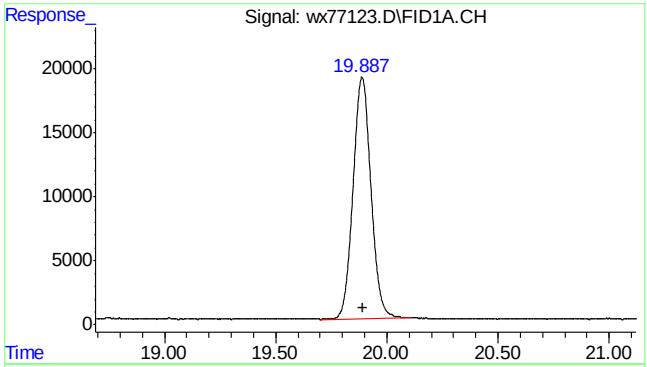
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 101342
Conc: 4.28 ppb m



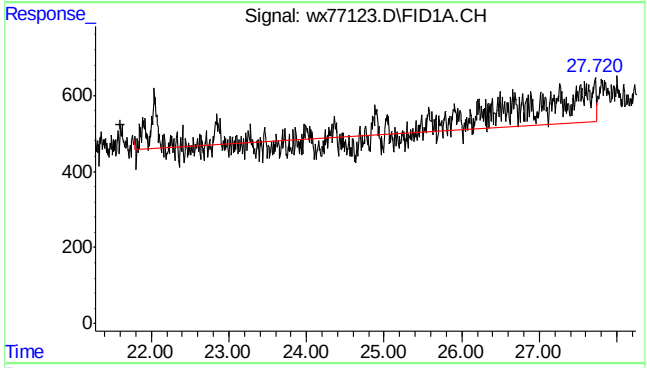
#4 fluorobenzene

R.T.: 14.753 min
Delta R.T.: 0.015 min
Response: 1337748
Conc: 47.34 ppb



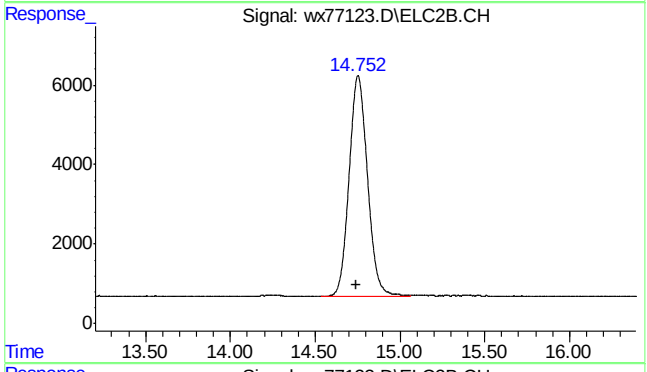
#6 2,3,4-trifluorotoluene

R.T.: 19.887 min
Delta R.T.: -0.003 min
Response: 1071168
Conc: 46.74 ppb



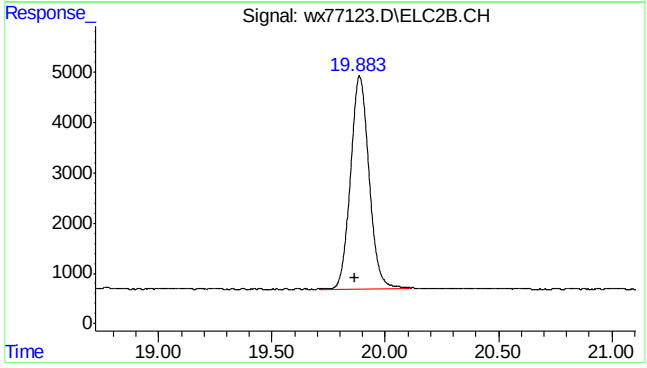
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 87631
Conc: 2.44 ppb m



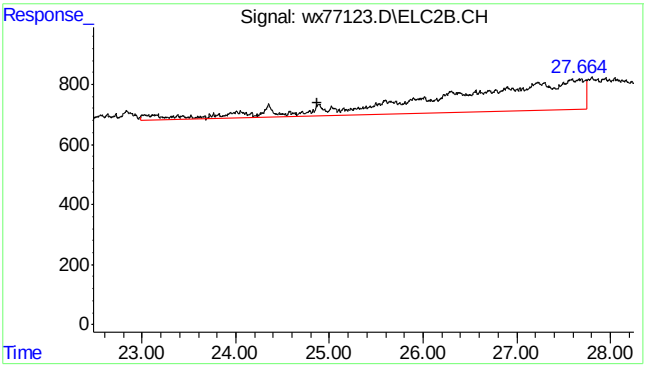
#16 fluorobenzene #2

R.T.: 14.754 min
Delta R.T.: 0.010 min
Response: 417709
Conc: 45.81 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 19.885 min
Delta R.T.: 0.016 min
Response: 242424
Conc: 44.39 ppb



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

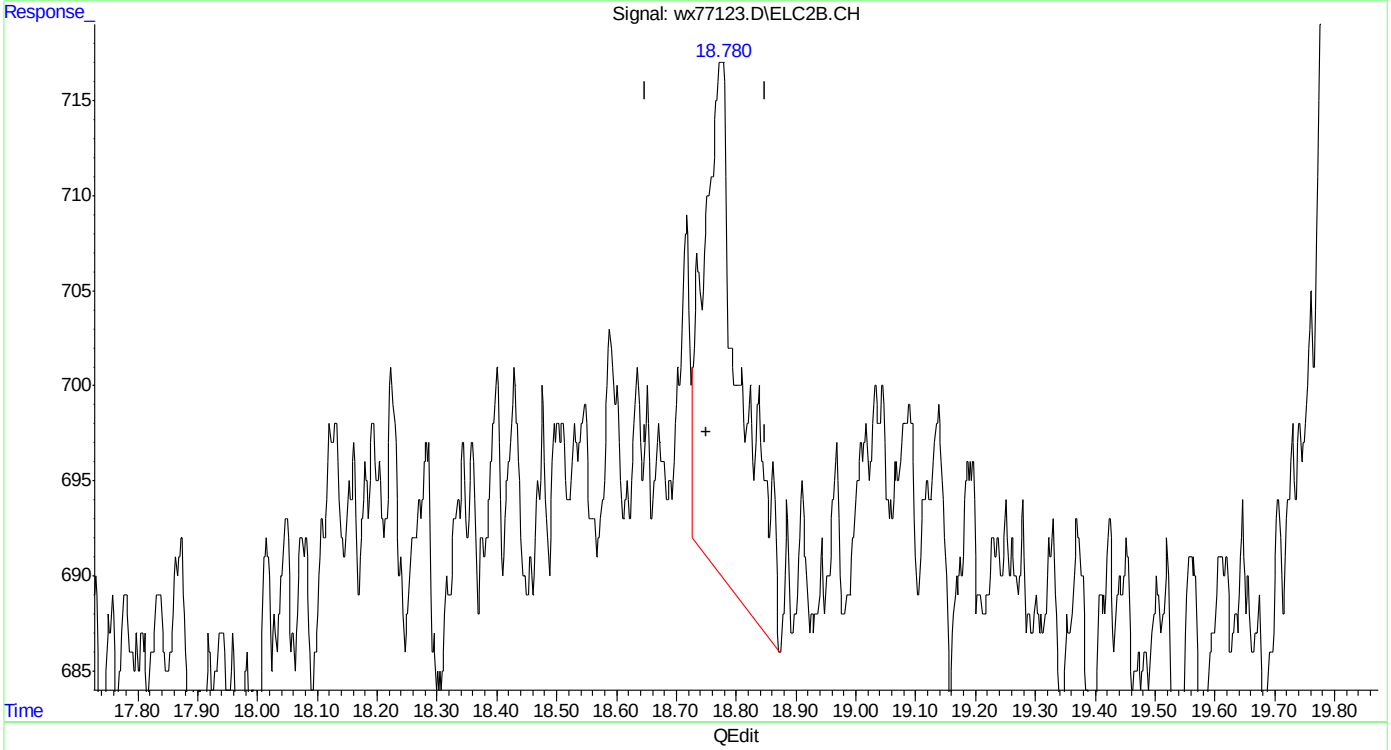
R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	103646
Conc:	8.20 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.776min 0.088 ppb
response 1134

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:35:08 2016

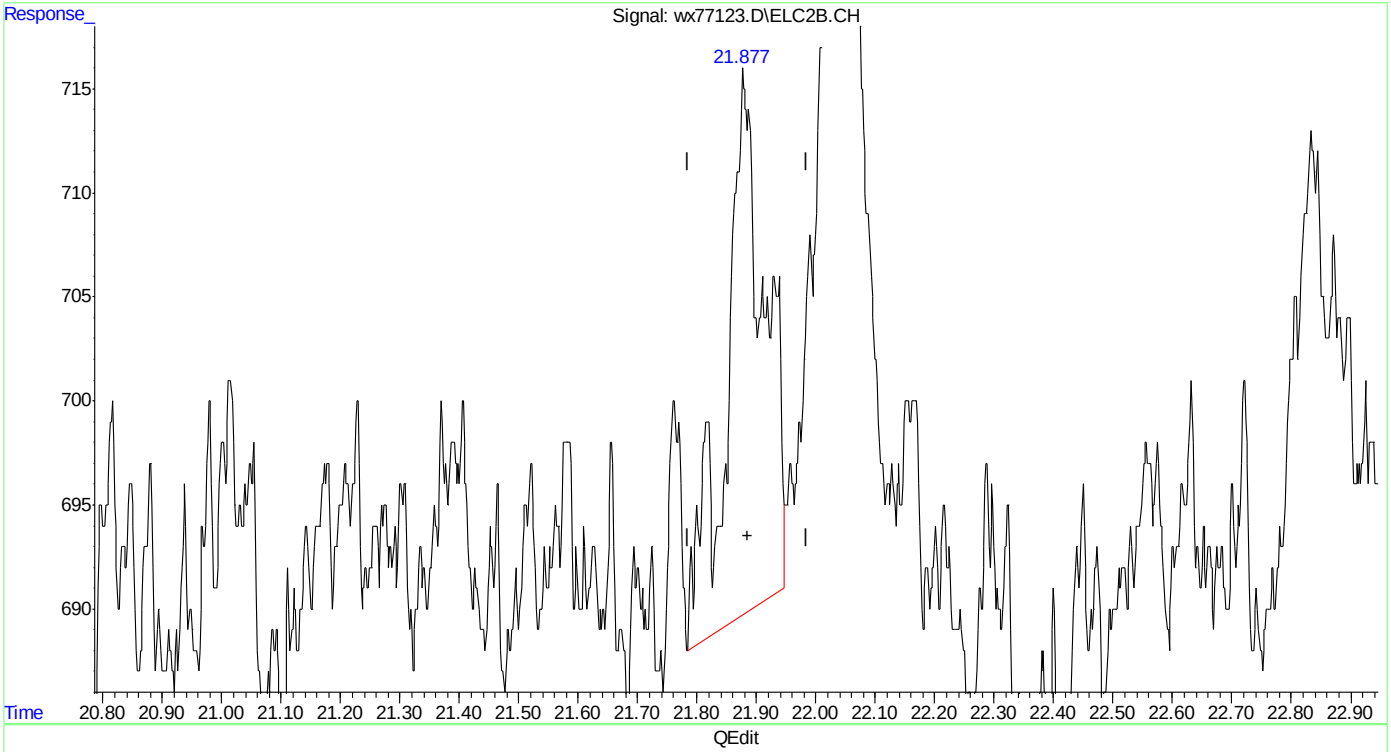
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.881min 0.101 ppb
response 1159

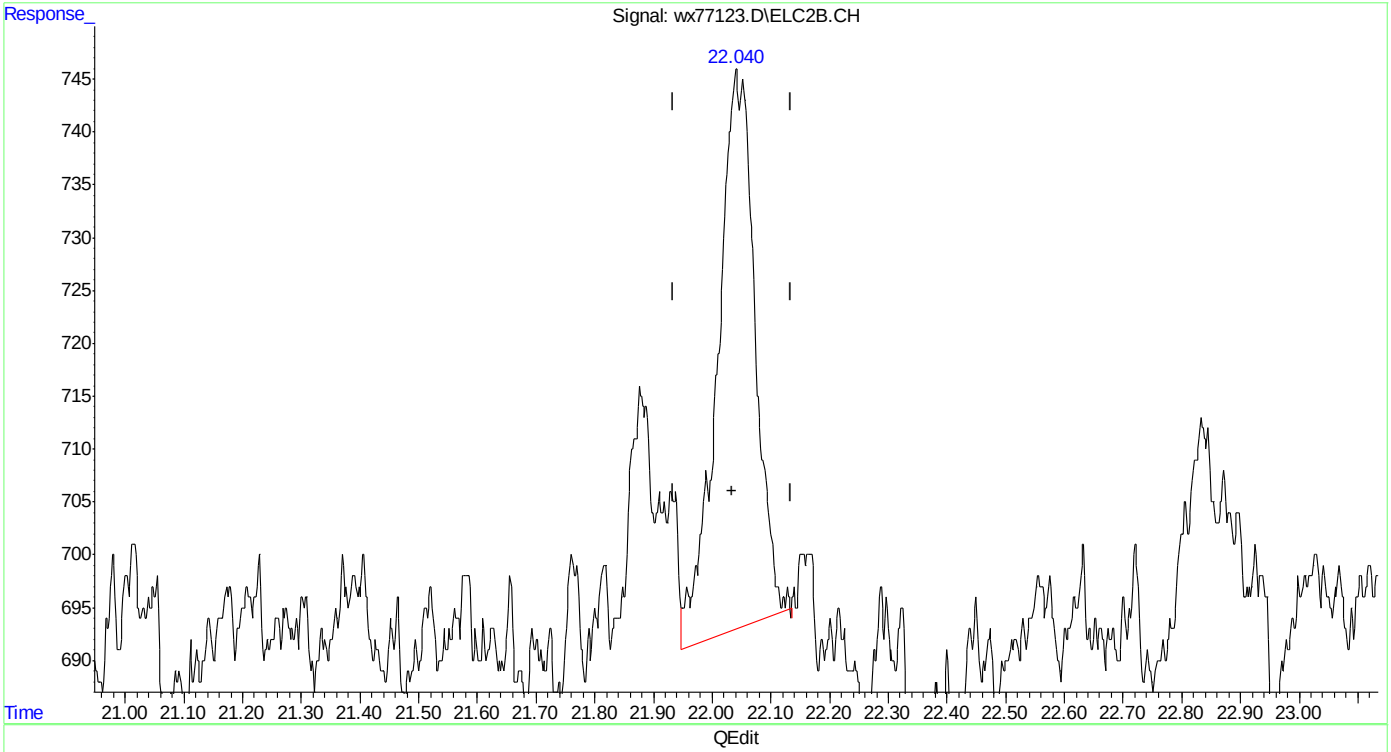
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:35:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.042min 0.171 ppb
response 2360

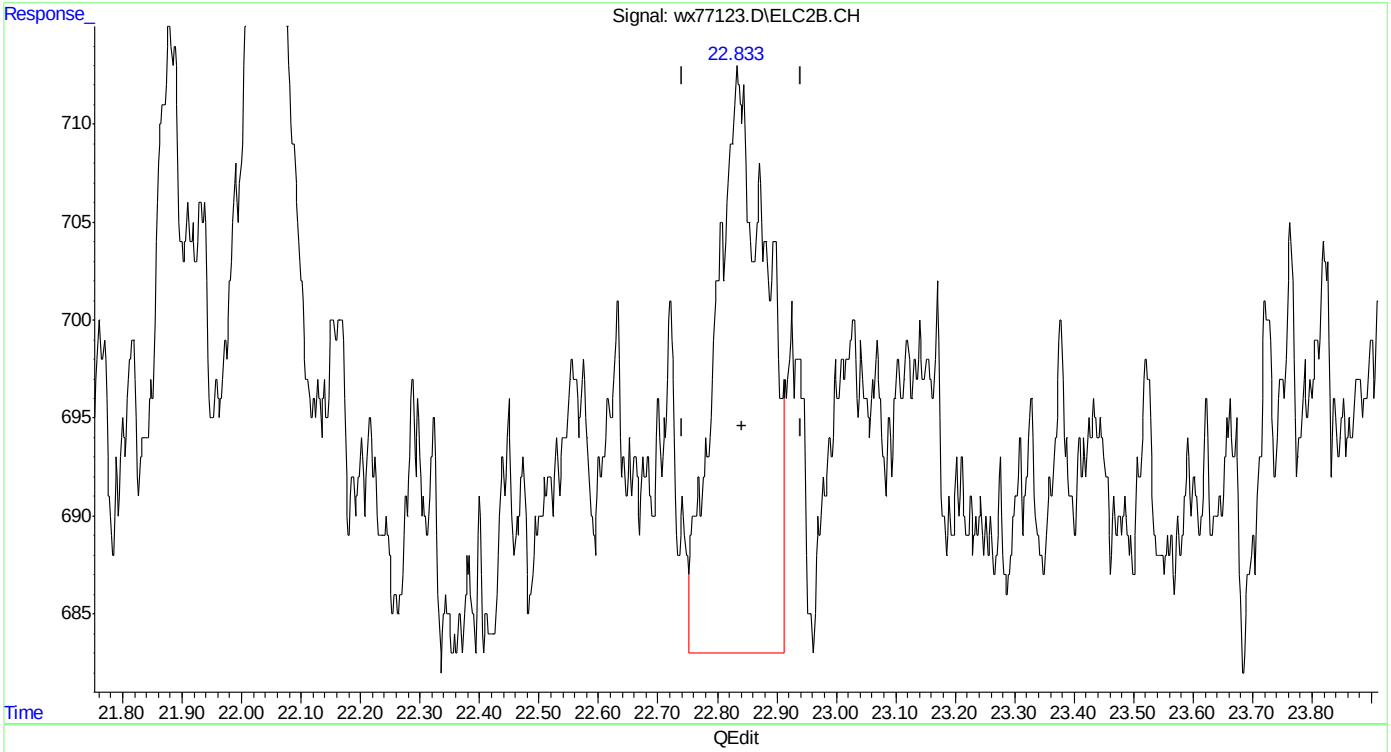
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:35:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.836min 0.150 ppb
response 1744

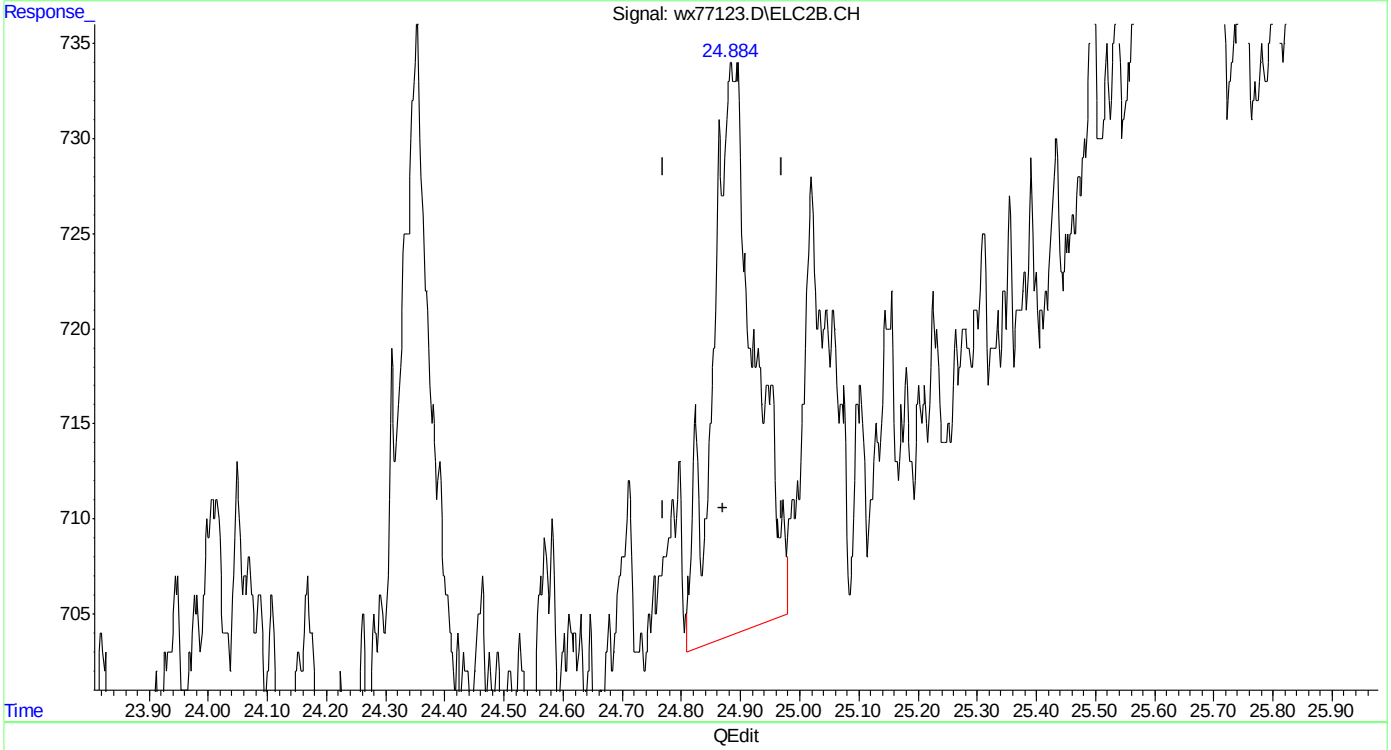
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:35:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.889min 0.116 ppb
response 1463

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:35:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77123.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 1:25 am
Operator : tonyf
Sample : mc46340-1,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.803min 0.301 ppb
response 2678

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:35:33 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 09:57:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.760	1349469	47.753 ppb
Spiked Amount 50.000		Recovery =	95.51%
6) s 2,3,4-trifluorotoluene	19.897	1065913	46.515 ppb
Spiked Amount 50.000		Recovery =	93.03%
16) s fluorobenzene #2	14.760	411966	45.185 ppb
Spiked Amount 50.000		Recovery =	90.37%
18) s 2,3,4-trifluorotoluen...	19.896	234470	42.930 ppb
Spiked Amount 50.000		Recovery =	85.86%
Target Compounds			
1) h rt5.5-7	6.100	30576	1.292 ppb
2) h rt7/10	8.370	58736	2.482 ppb
3) h rt10/13	13.510	103302	4.366 ppb
8) h rt20/25	21.600	539926	15.064 ppb
14) mtbe #2	9.136f	6074	1.392 ppb
24) naphthalene #2	27.812	1990	0.223 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	185470	14.673 ppb

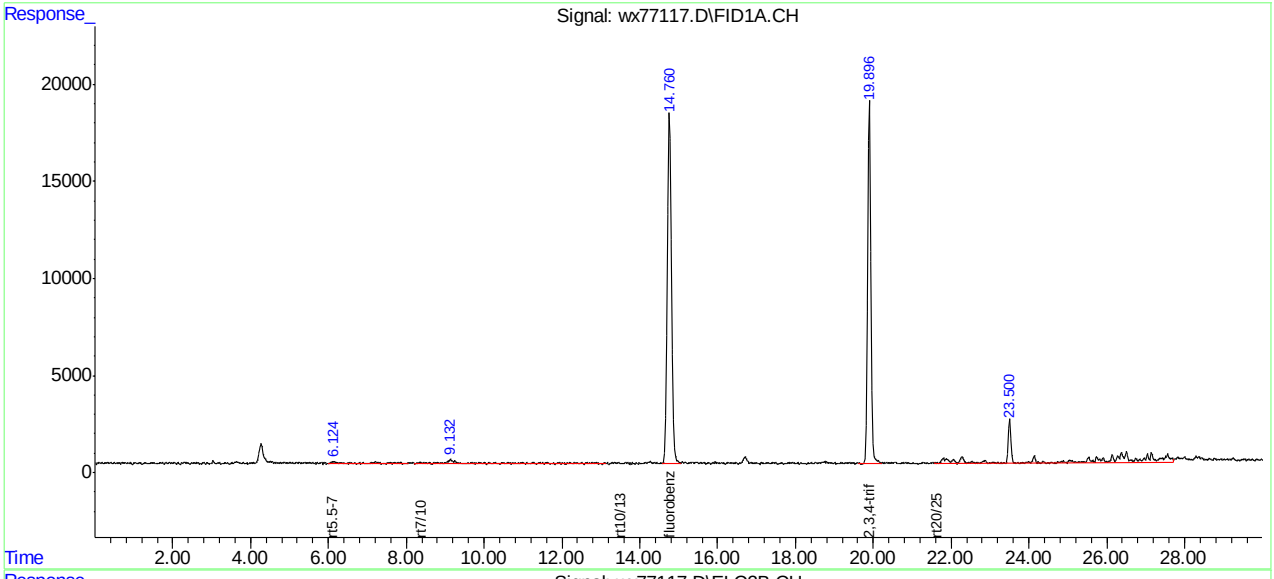
(f)=RT Delta > 1/2 Window (m)=manual int.

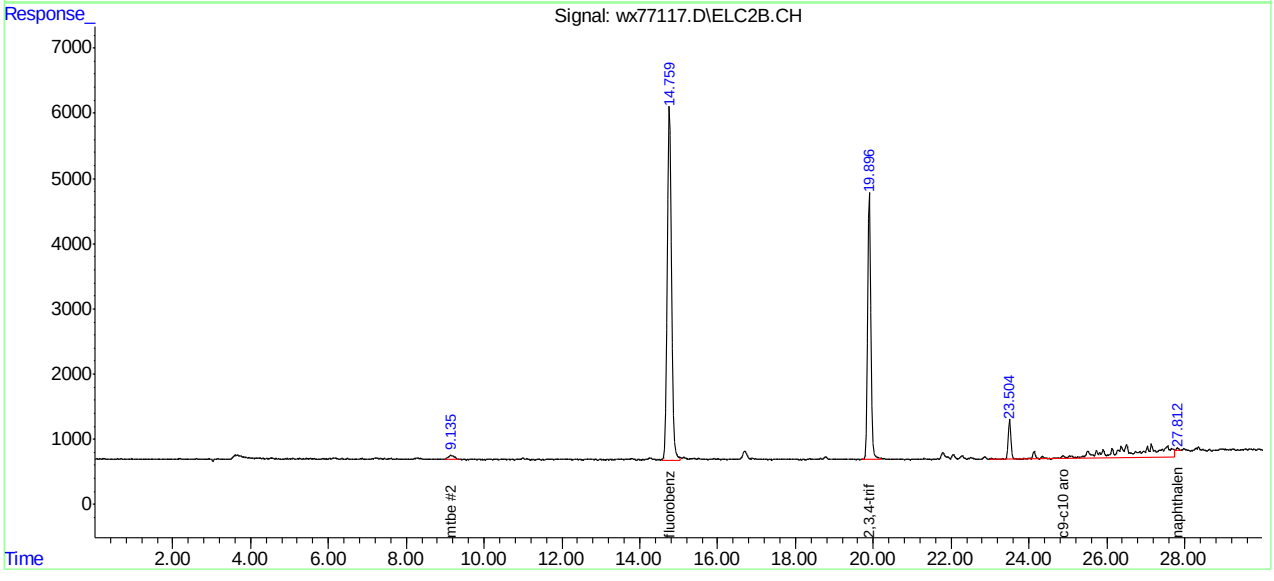
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

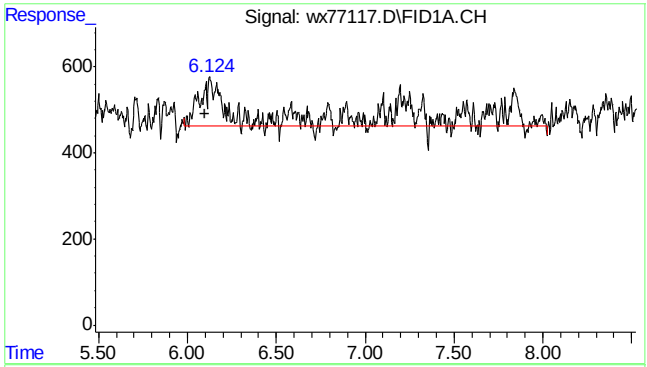
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 09:57:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



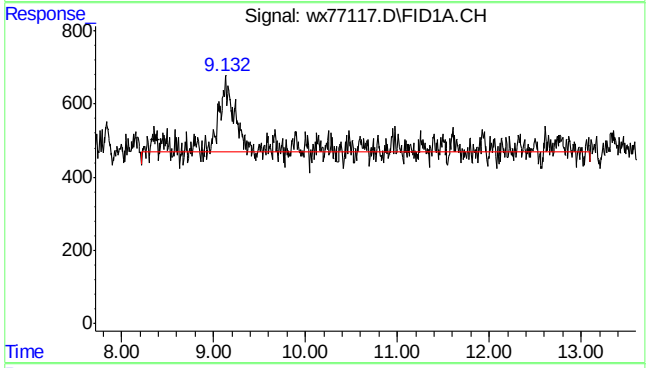


7.1.2
7
SGS ACCUTEST MC46340



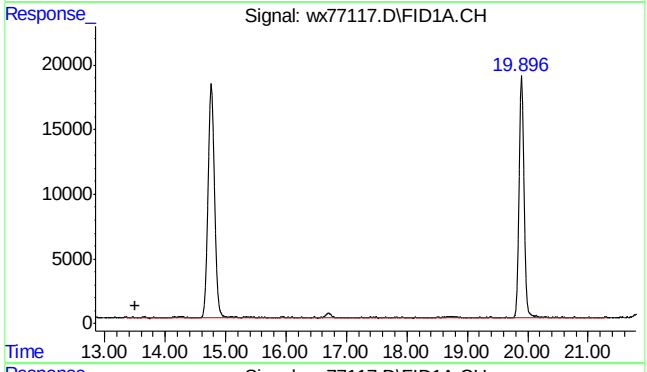
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 30576
Conc: 1.29 ppb m



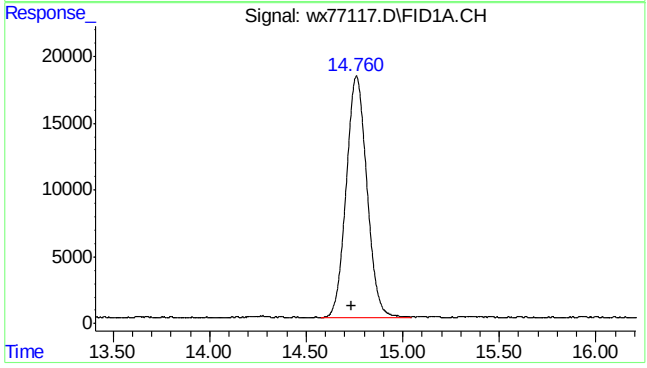
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 58736
Conc: 2.48 ppb m



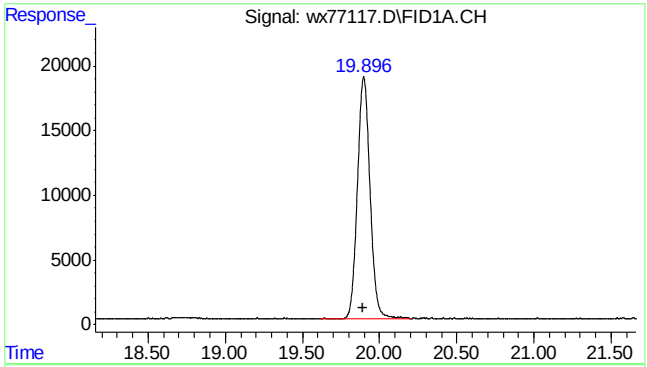
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 103302
Conc: 4.37 ppb m



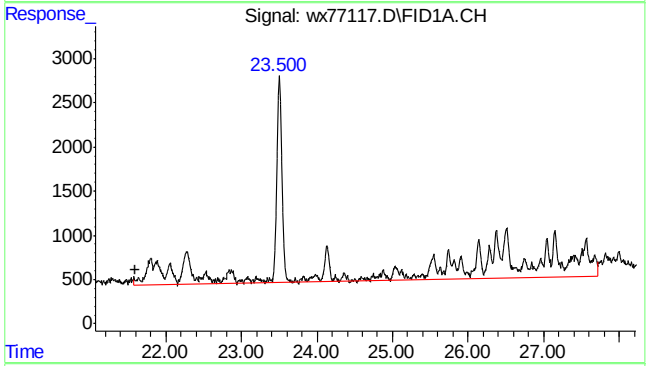
#4 fluorobenzene

R.T.: 14.760 min
Delta R.T.: 0.022 min
Response: 1349469
Conc: 47.75 ppb



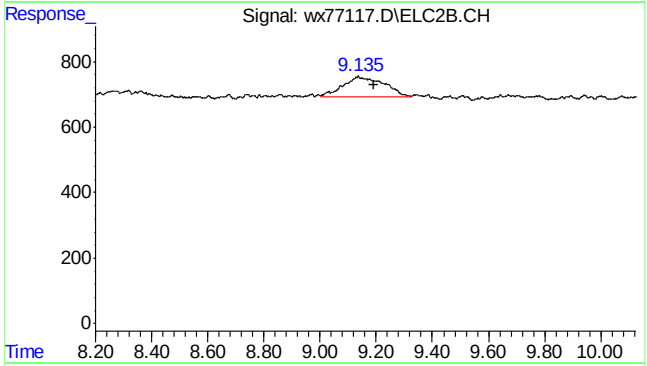
#6 2,3,4-trifluorotoluene

R.T.: 19.897 min
Delta R.T.: 0.007 min
Response: 1065913
Conc: 46.51 ppb



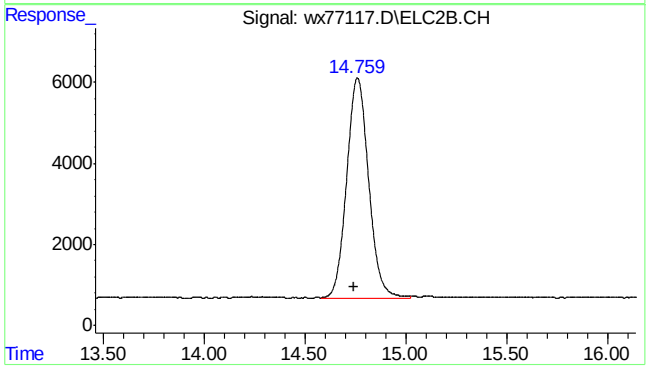
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 539926
Conc: 15.06 ppb m



#14 mtbe #2

R.T.: 9.136 min
Delta R.T.: -0.055 min
Response: 6074
Conc: 1.39 ppb



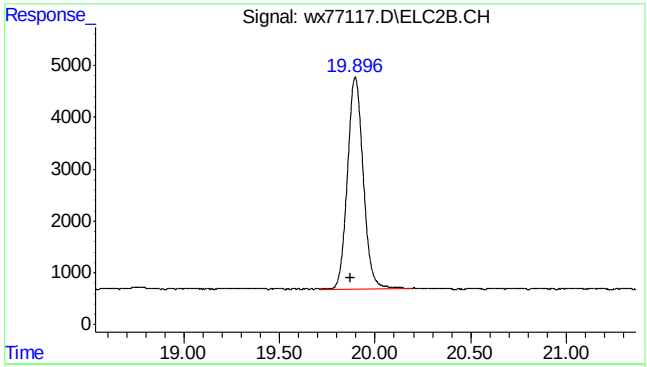
#16 fluorobenzene #2

R.T.: 14.760 min
Delta R.T.: 0.016 min
Response: 411966
Conc: 45.18 ppb

7.1.2

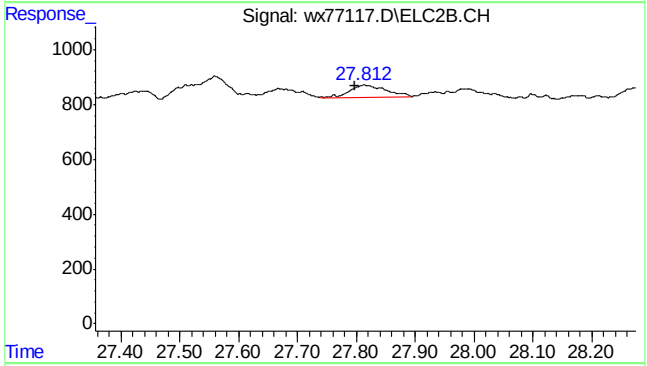
7

SGS ACCUTEST MC46340



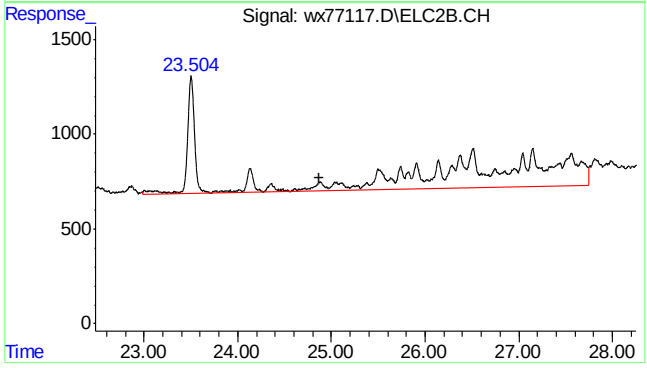
#18 2,3,4-trifluorotoluene #2

```
      R.T.:   19.896 min
Delta R.T.:    0.027 min
  Response:    234470
      Conc:  42.93 ppb
```



#24 naphthalene #2

```
      R.T.:   27.812 min
Delta R.T.:    0.016 min
  Response:      1990
      Conc:   0.22 ppb m
```



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

```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:    185470
      Conc:  14.67 ppb m
```

7.1.2

7

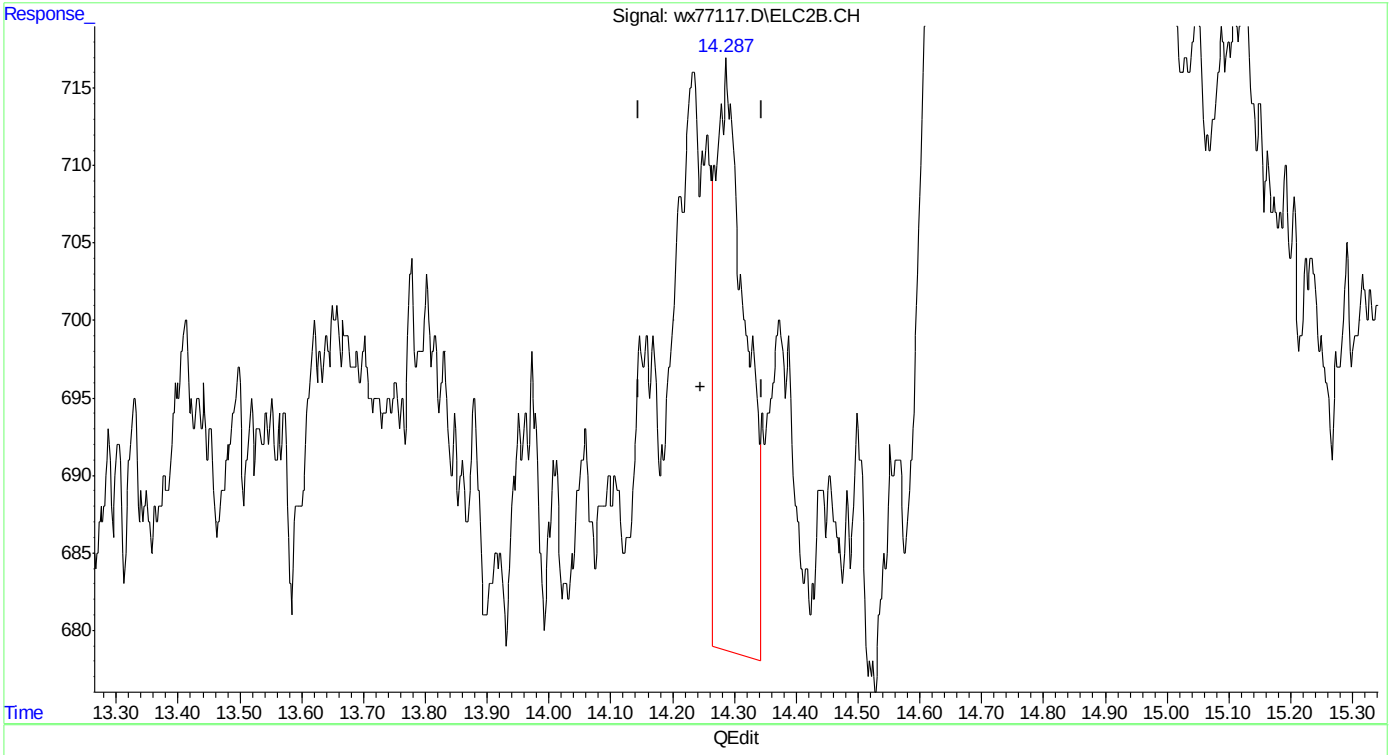
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.288min 0.087 ppb
response 1229

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:56:25 2016

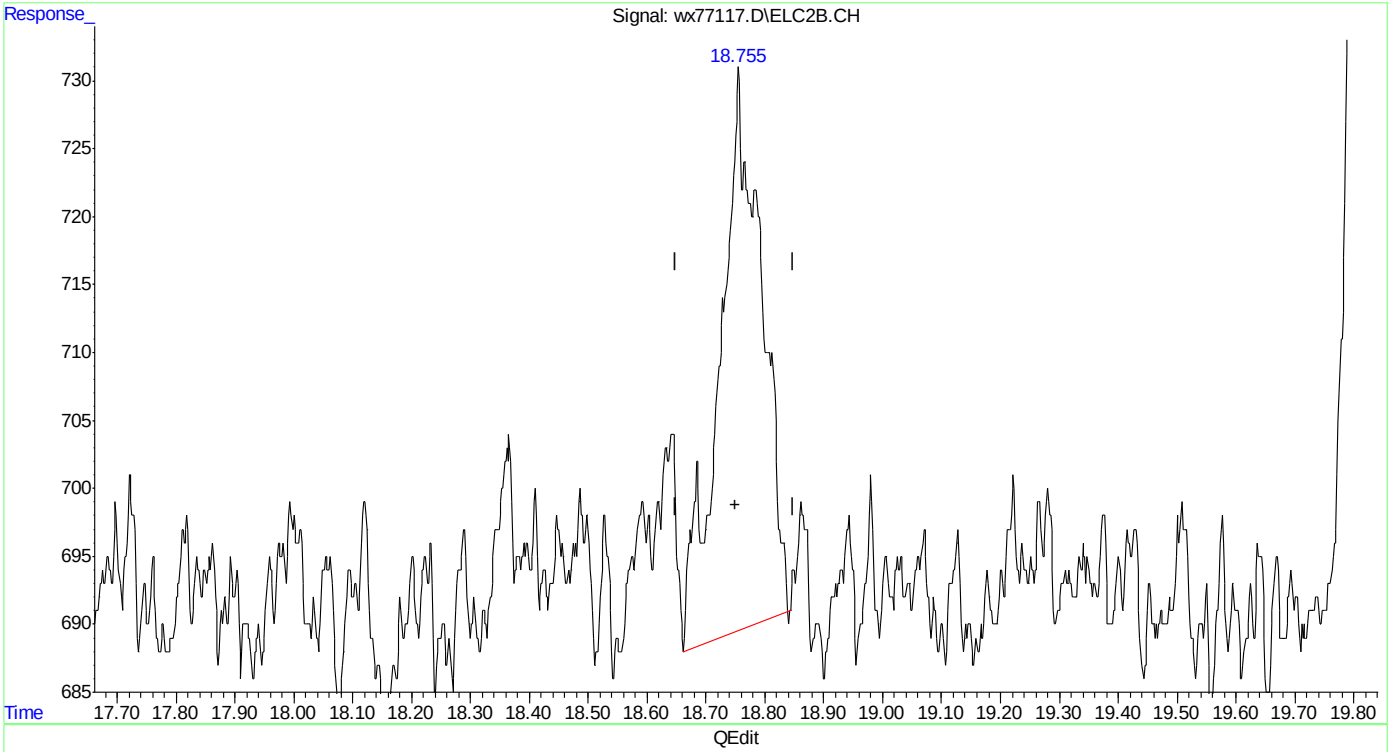
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.756min 0.158 ppb
response 2030

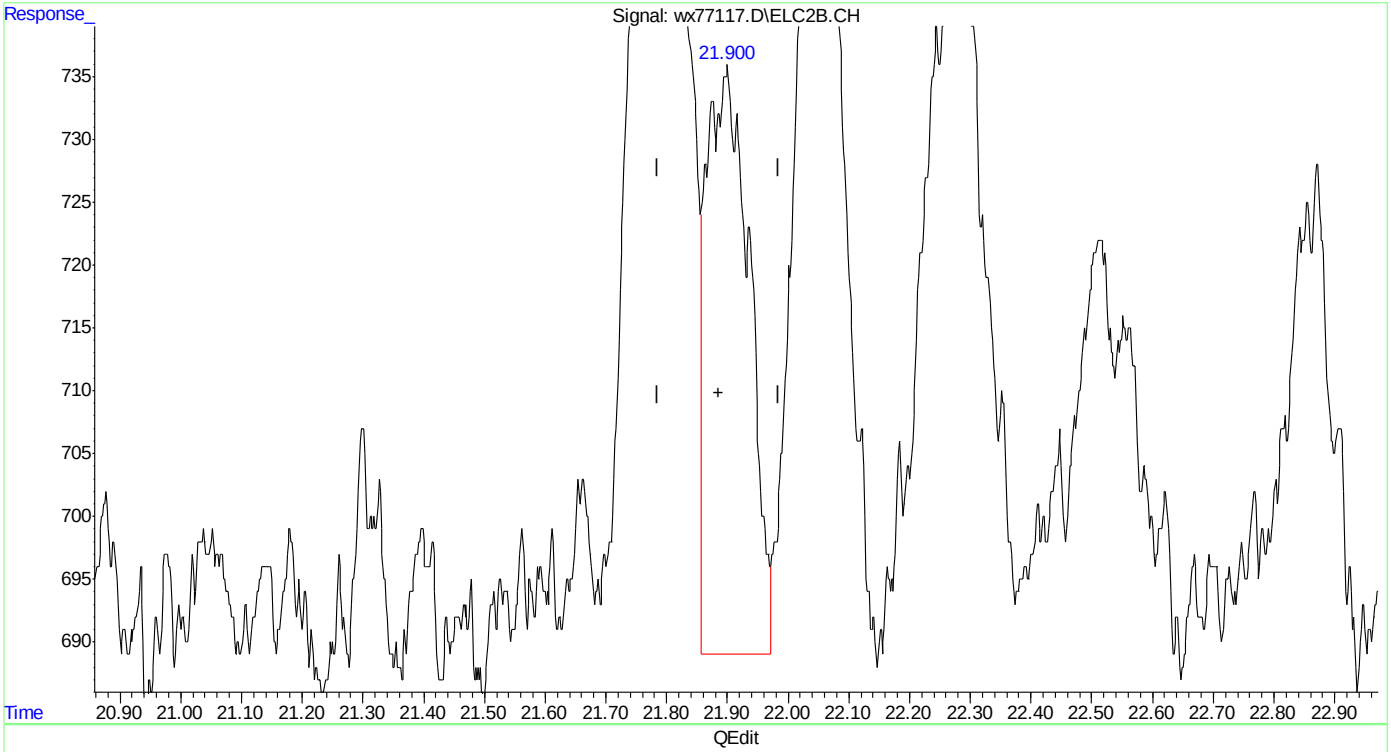
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:56:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.899min 0.200 ppb
response 2286

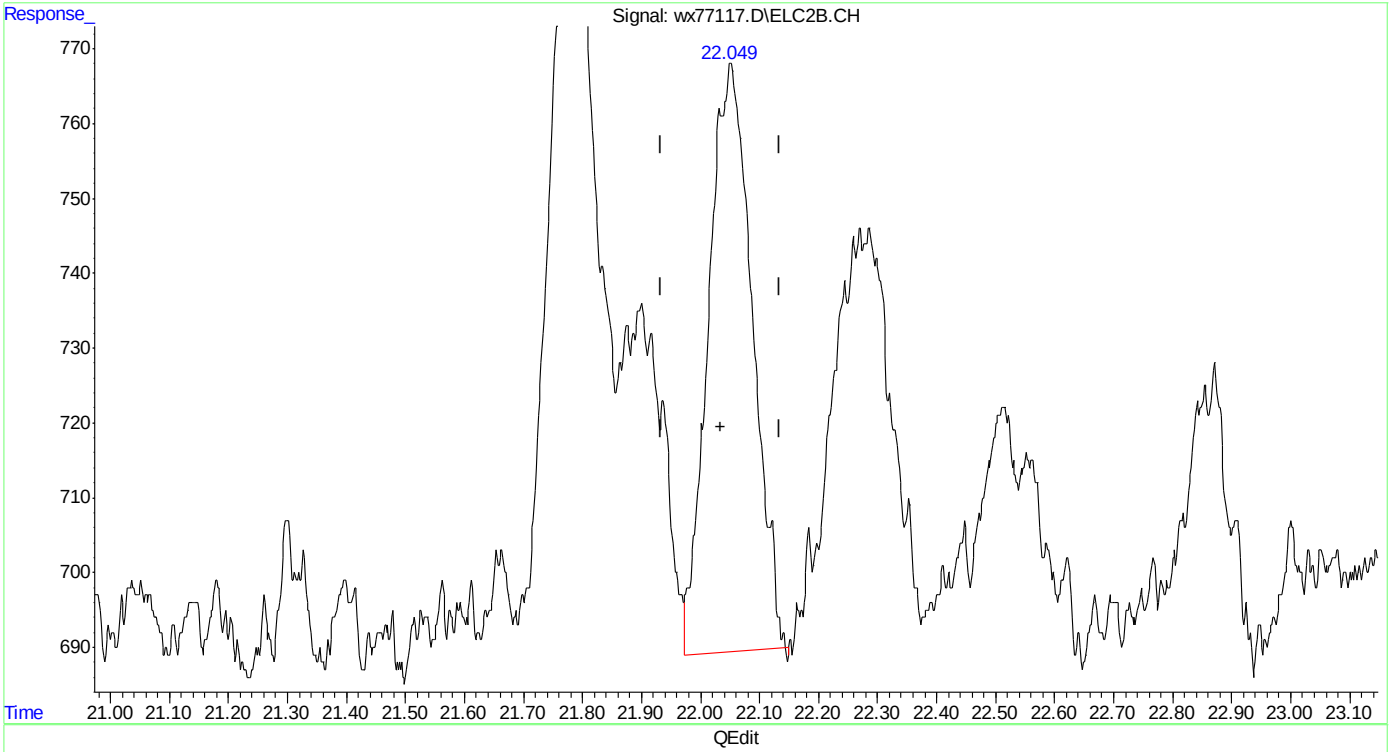
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:56:40 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.052min 0.296 ppb
response 4085

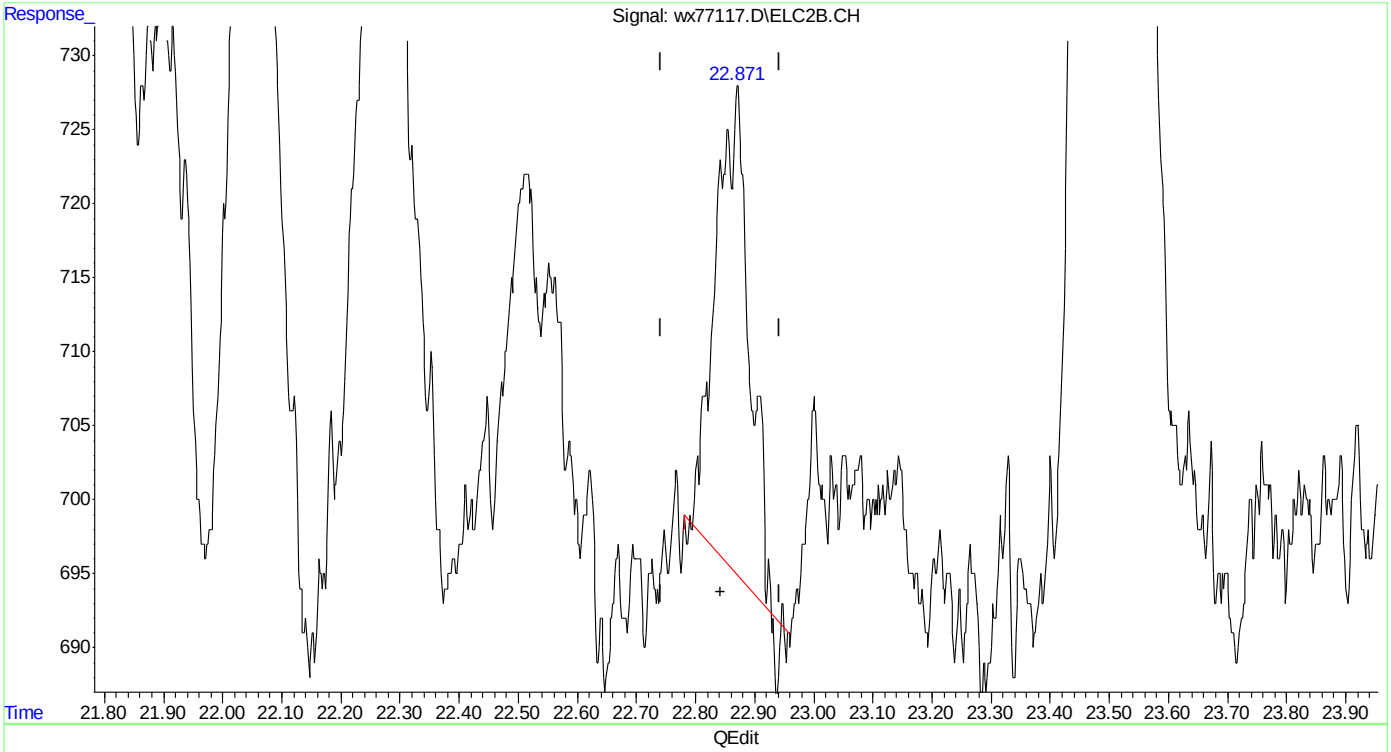
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:56:44 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.871min 0.110 ppb
response 1283

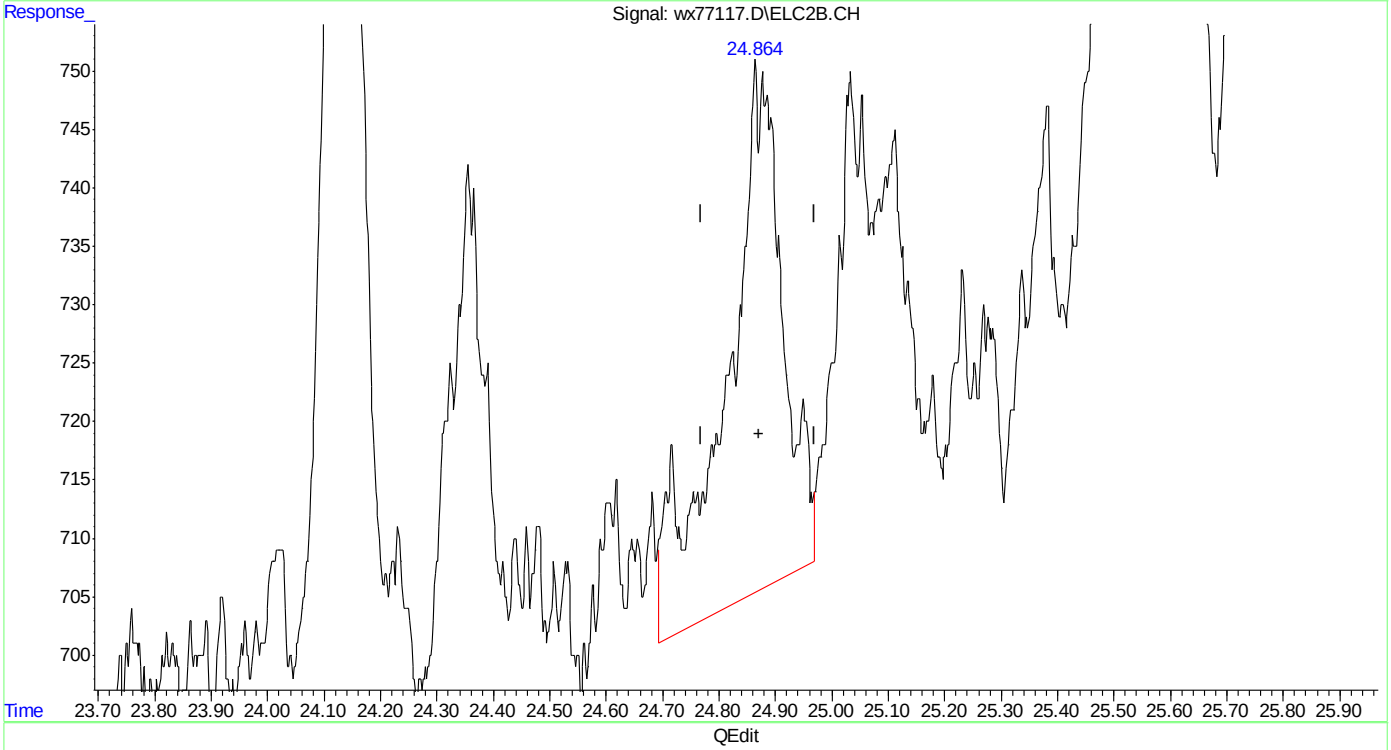
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:56:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.880min 0.254 ppb
response 3211

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:56:56 2016

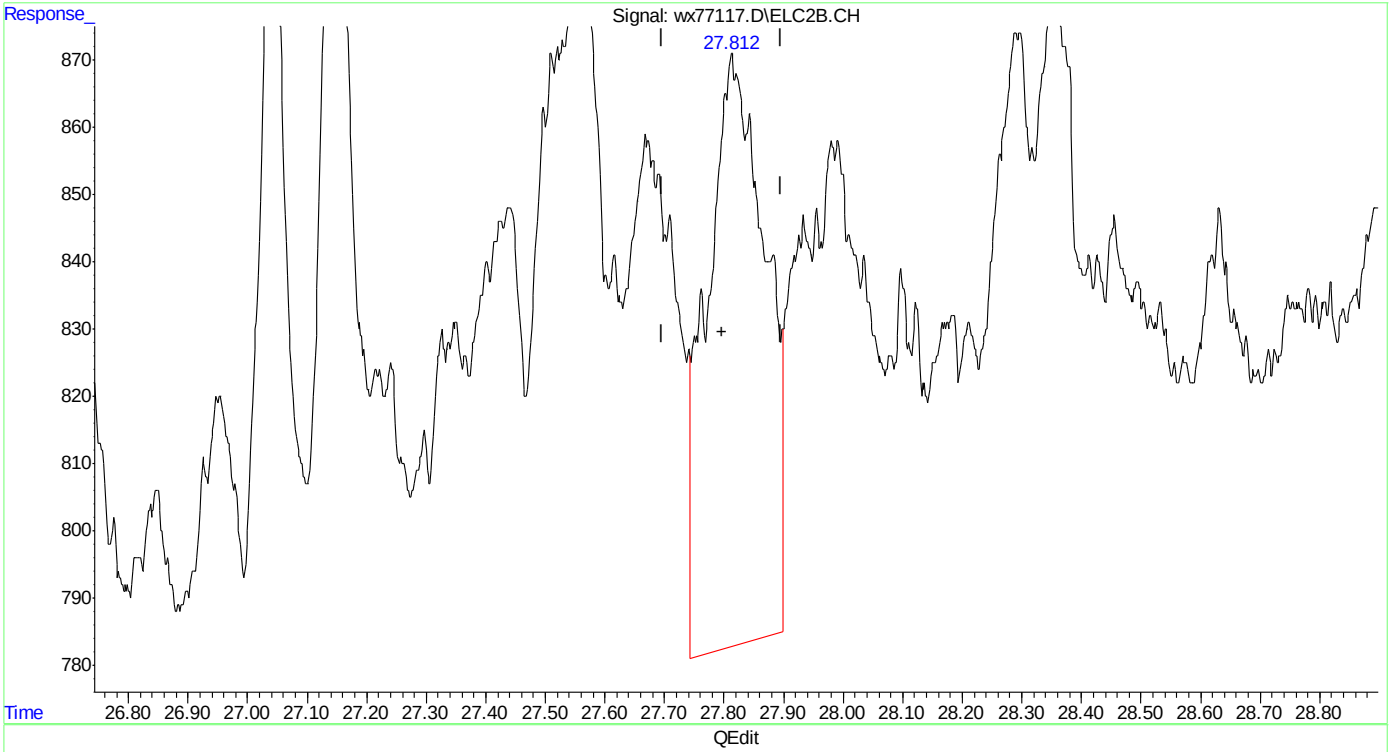
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77117.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 9:35 pm
Operator : tonyf
Sample : mc46340-2,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.816min 0.672 ppb
response 5984

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:00:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.757	1335525	47.259	ppb	
Spiked Amount 50.000		Recovery =	94.52%		
6) s 2,3,4-trifluorotoluene	19.895	1045935	45.643	ppb	
Spiked Amount 50.000		Recovery =	91.29%		
16) s fluorobenzene #2	14.757	408184	44.770	ppb	
Spiked Amount 50.000		Recovery =	89.54%		
18) s 2,3,4-trifluorotoluen...	19.894	234294	42.898	ppb	
Spiked Amount 50.000		Recovery =	85.80%		
Target Compounds					
1) h rt5.5-7	6.100	55263	2.335	ppb	
2) h rt7/10	8.370	107725	4.552	ppb	
3) h rt10/13	13.510	131866	5.573	ppb	
8) h rt20/25	21.600	1134145	31.643	ppb	
14) mtbe #2	9.158	16627	3.811	ppb	m
15) benzene #2	14.266	3260	0.229	ppb	m
23) 1,2,4-trimethylbenzen...	24.845	5429	0.429	ppb	m
24) naphthalene #2	27.926f	4252	0.477	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	326871	25.860	ppb	

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

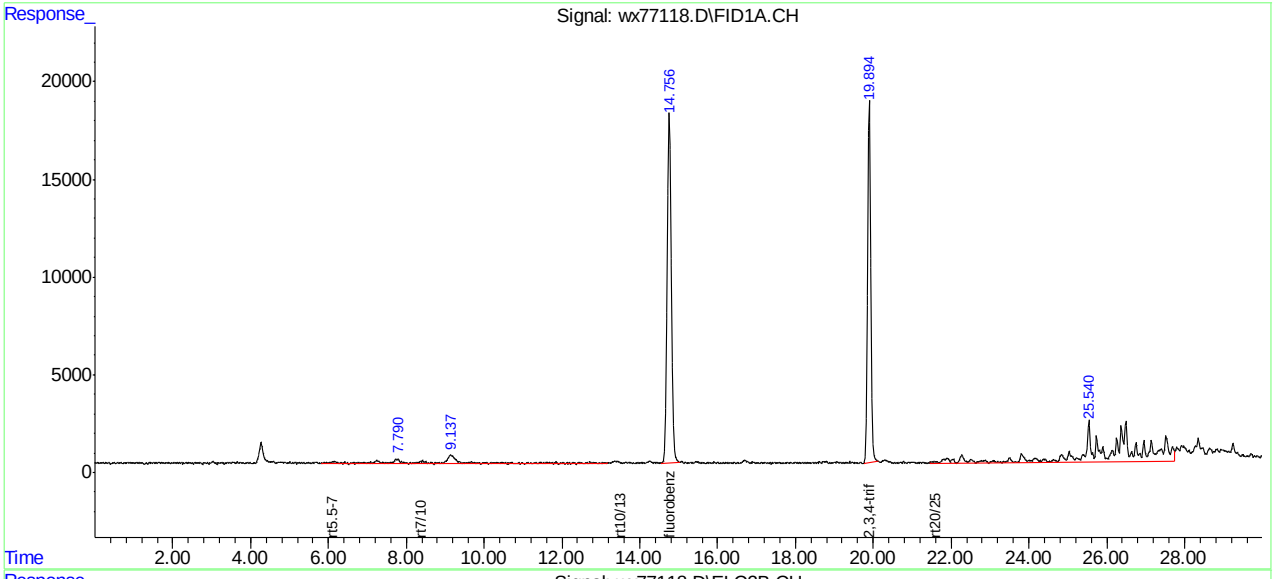
SGS ACCUTEST MC46340

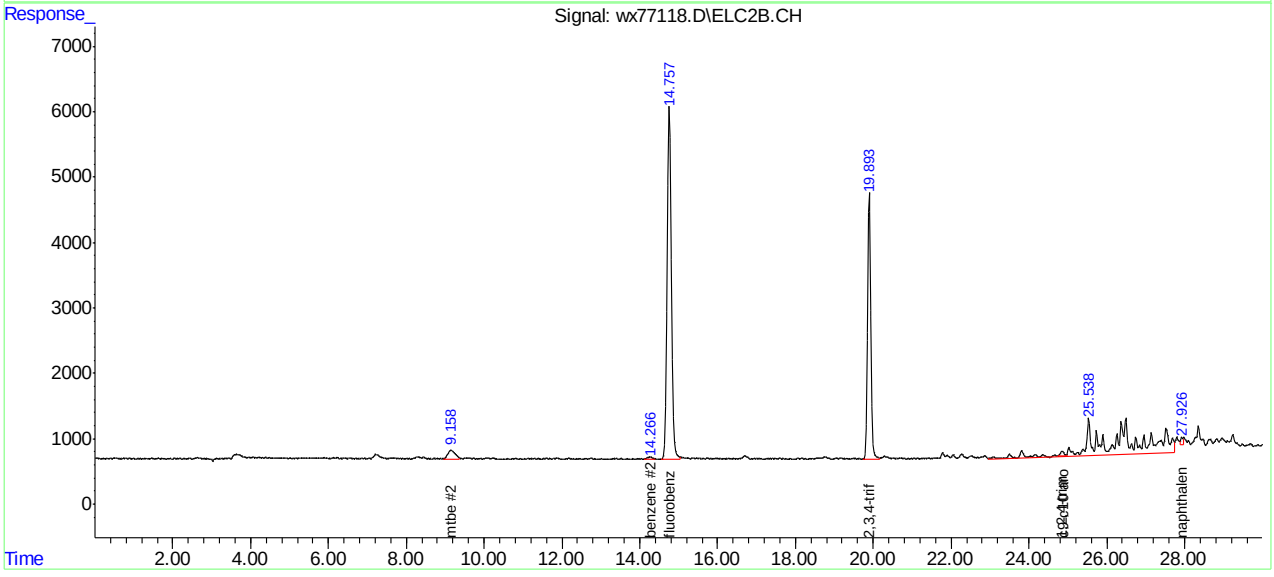
Quantitation Report (QT Reviewed)

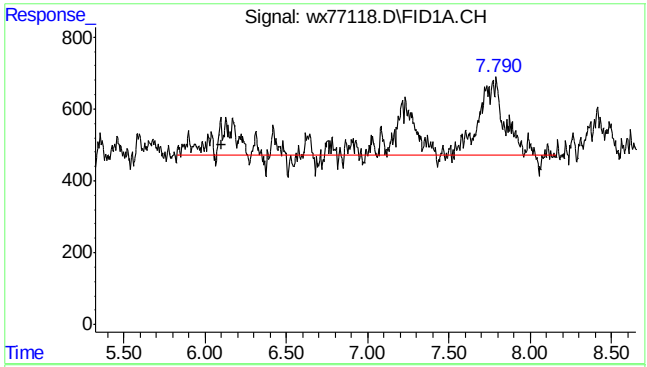
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:00:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

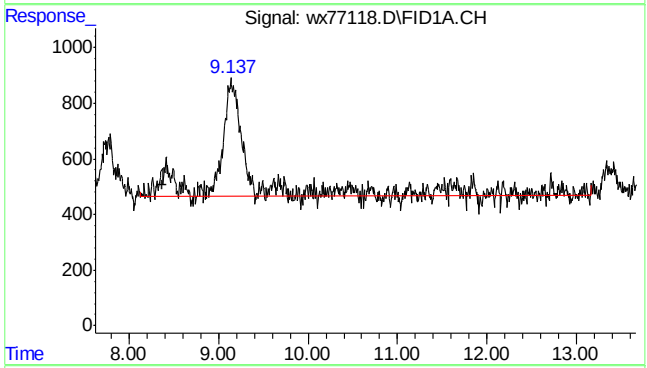






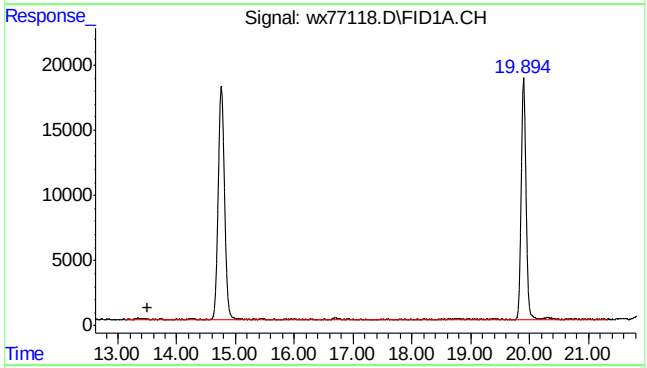
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 55263
Conc: 2.34 ppb m



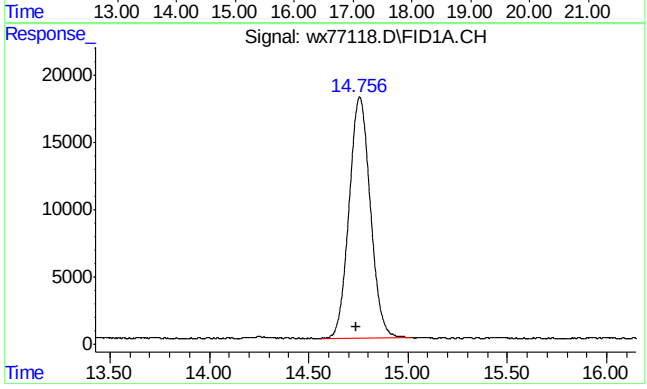
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 107725
Conc: 4.55 ppb m



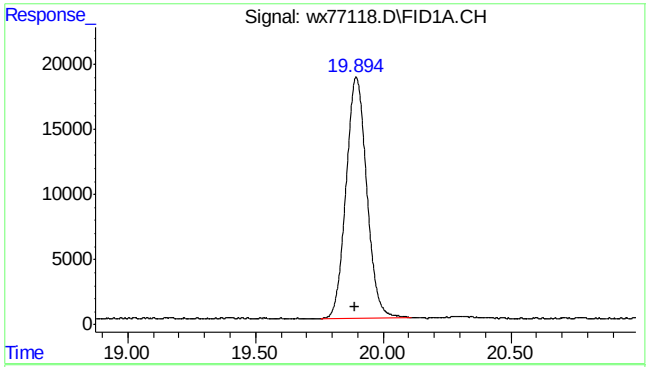
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 131866
Conc: 5.57 ppb m



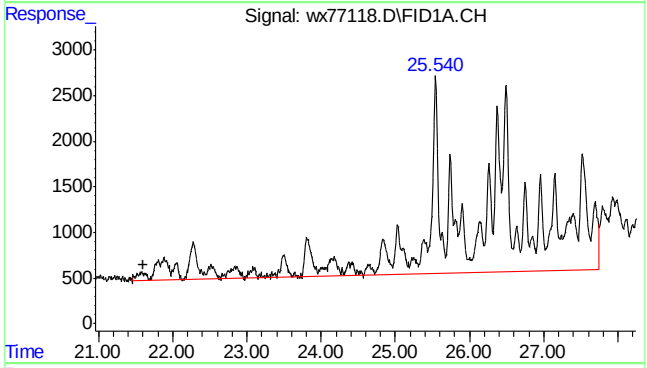
#4 fluorobenzene

R.T.: 14.757 min
Delta R.T.: 0.018 min
Response: 1335525
Conc: 47.26 ppb



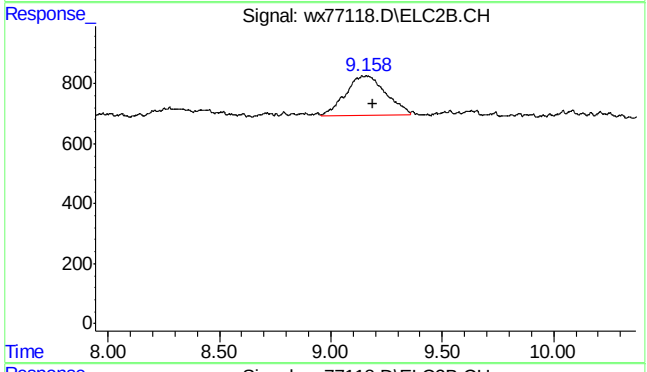
#6 2,3,4-trifluorotoluene

R.T.: 19.895 min
Delta R.T.: 0.004 min
Response: 1045935
Conc: 45.64 ppb



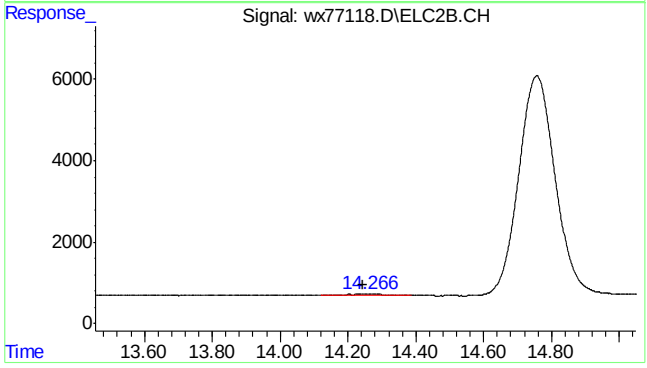
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1134145
Conc: 31.64 ppb m



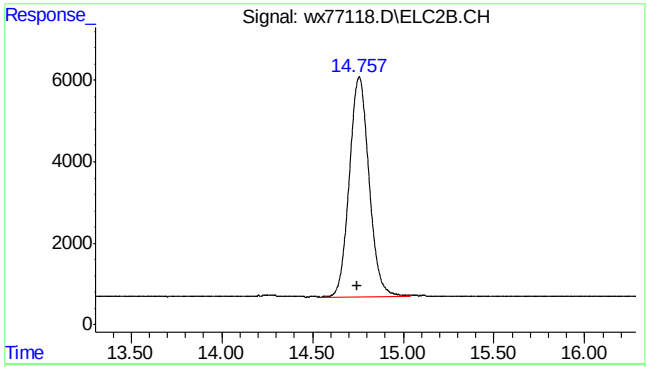
#14 mtbe #2

R.T.: 9.158 min
Delta R.T.: -0.033 min
Response: 16627
Conc: 3.81 ppb m



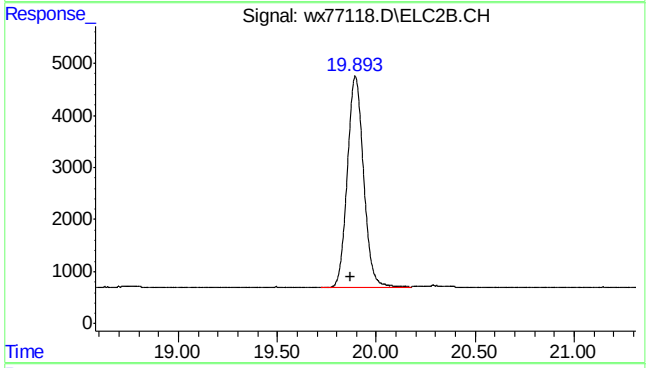
#15 benzene #2

R.T.: 14.266 min
Delta R.T.: 0.022 min
Response: 3260
Conc: 0.23 ppb m



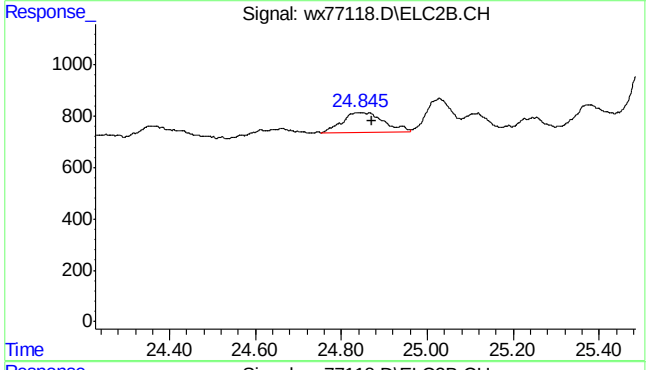
#16 fluorobenzene #2

R.T.: 14.757 min
Delta R.T.: 0.013 min
Response: 408184
Conc: 44.77 ppb



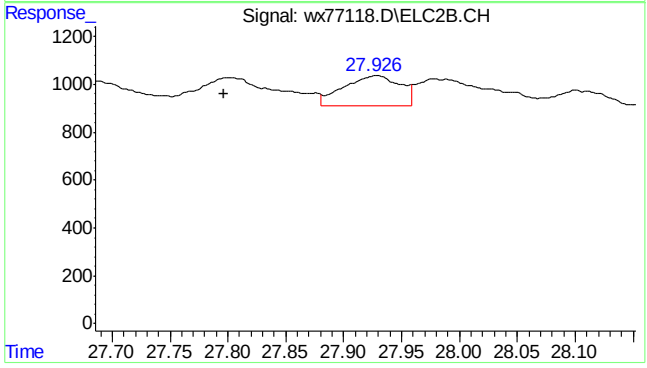
#18 2,3,4-trifluorotoluene #2

R.T.: 19.894 min
Delta R.T.: 0.025 min
Response: 234294
Conc: 42.90 ppb



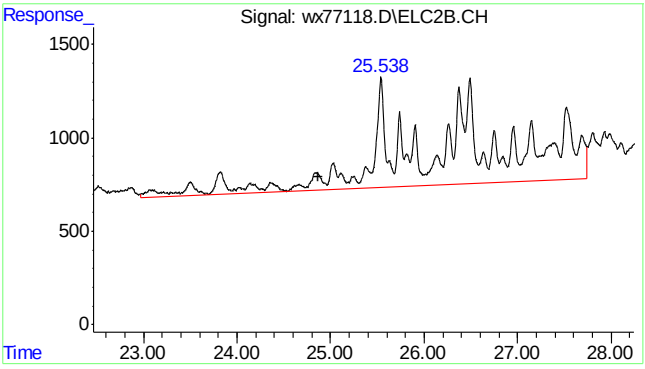
#23 1,2,4-trimethylbenzene #2

R.T.: 24.845 min
Delta R.T.: -0.025 min
Response: 5429
Conc: 0.43 ppb m



#24 naphthalene #2

R.T.: 27.926 min
Delta R.T.: 0.130 min
Response: 4252
Conc: 0.48 ppb m



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

R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	326871
Conc:	25.86 ppb m

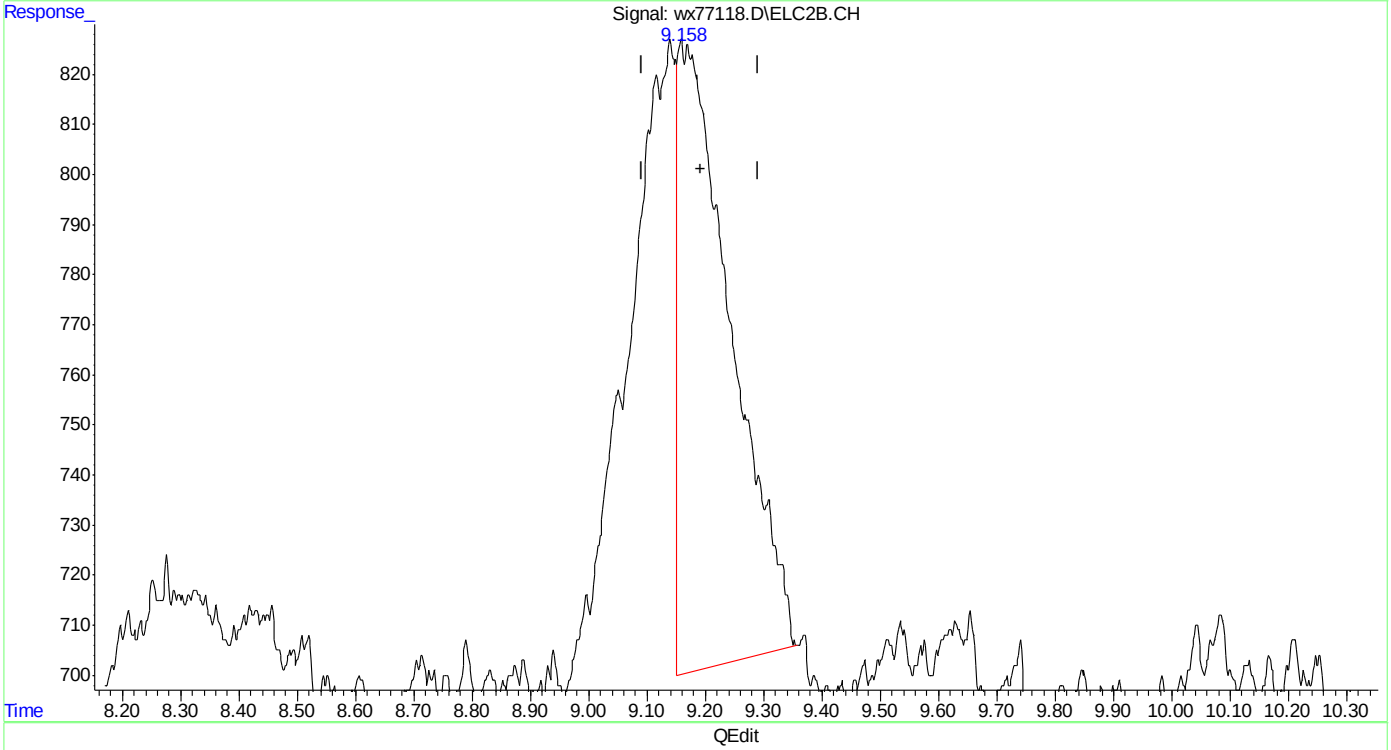
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.159min 1.822 ppb
response 7950

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:58:38 2016

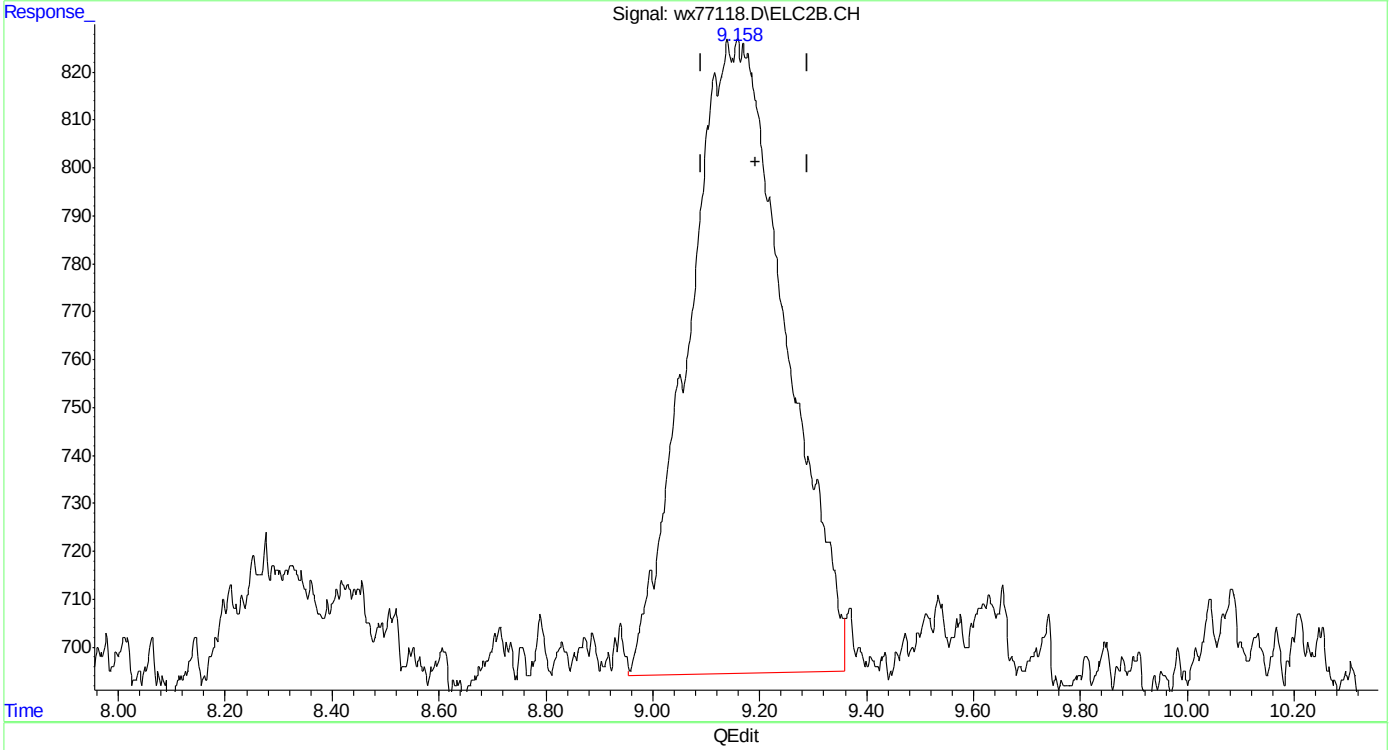
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.158min 3.811 ppb m
response 16627

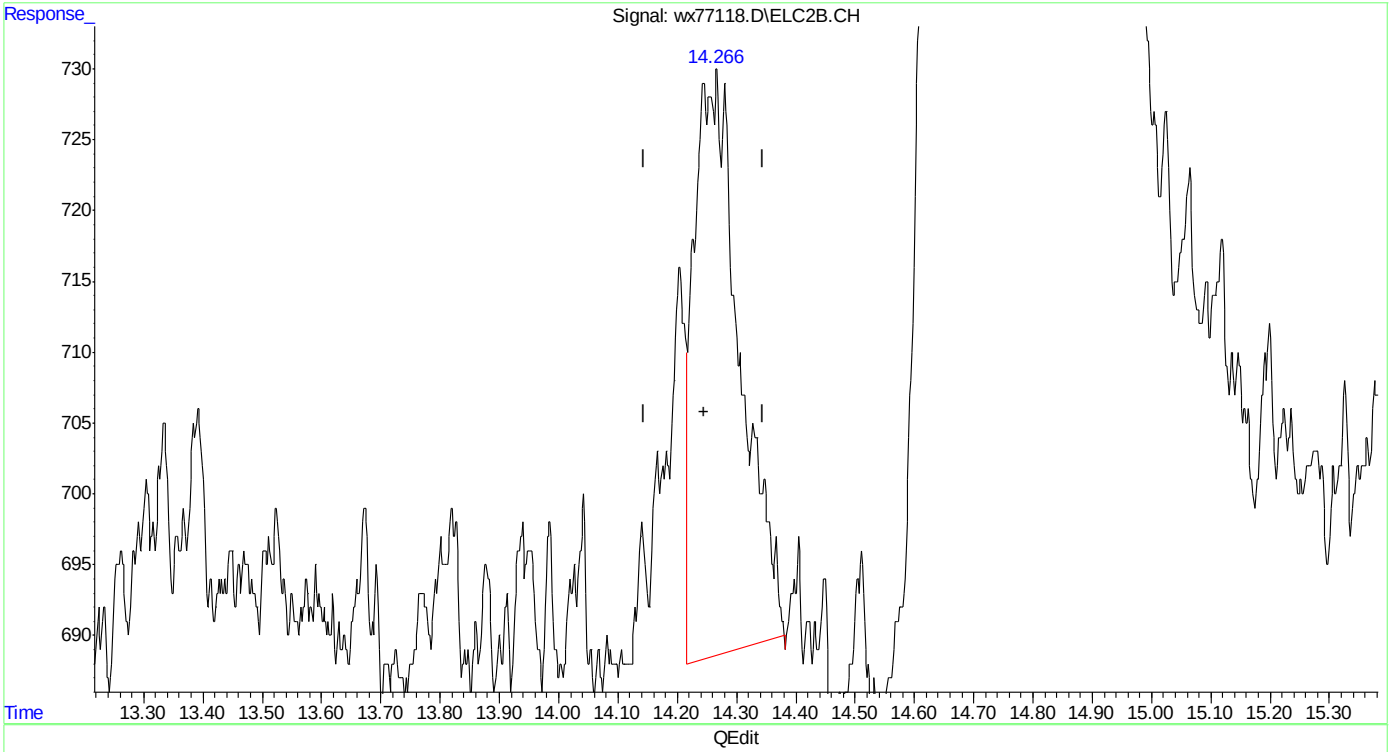
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:58:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.267min 0.160 ppb
response 2271

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:58:55 2016

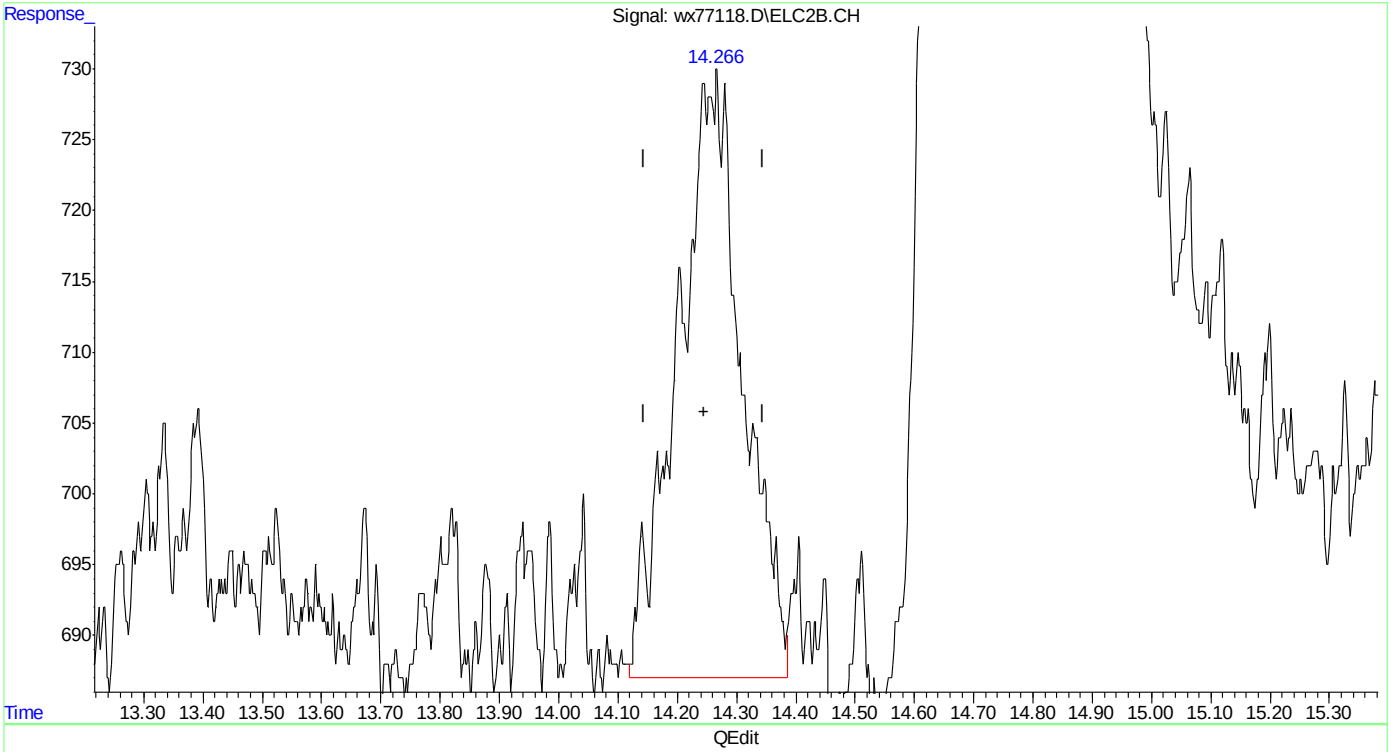
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.266min 0.229 ppb m
response 3260

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:05 2016

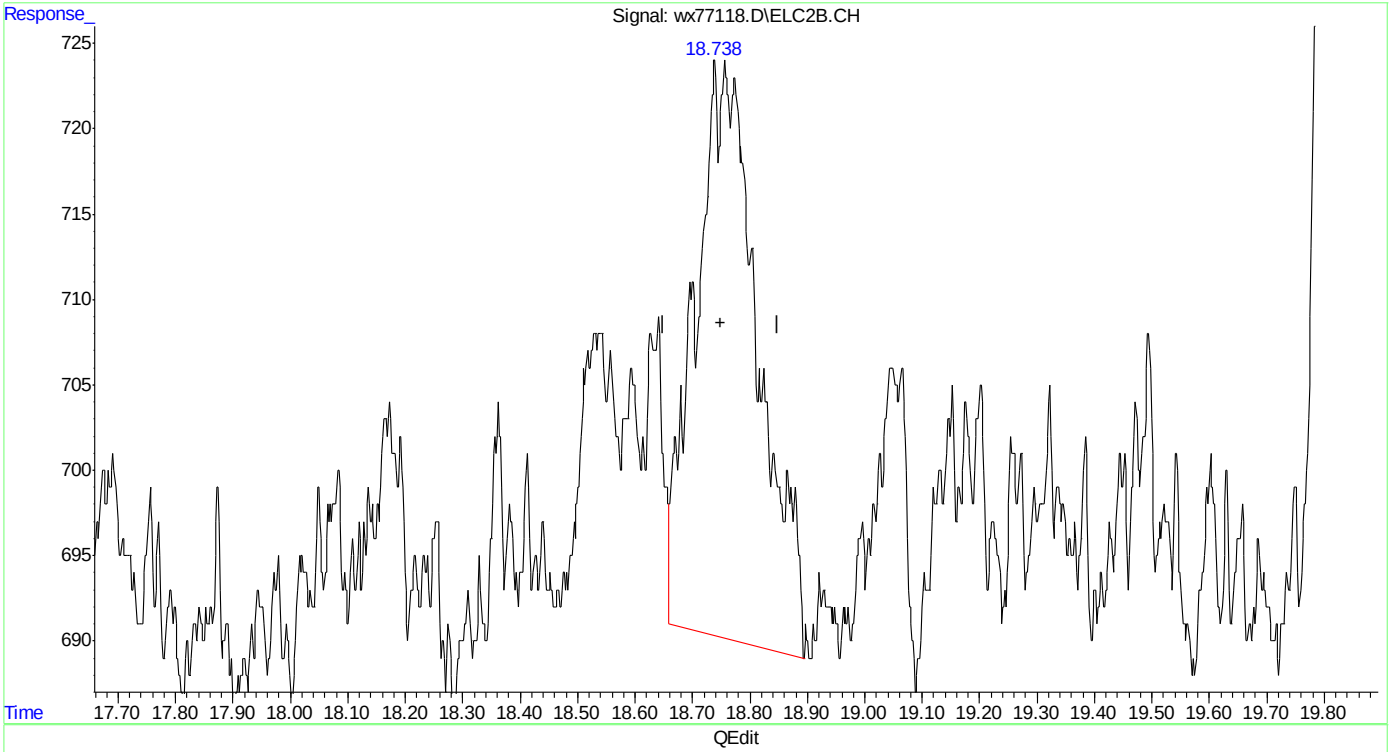
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.758min 0.203 ppb
response 2613

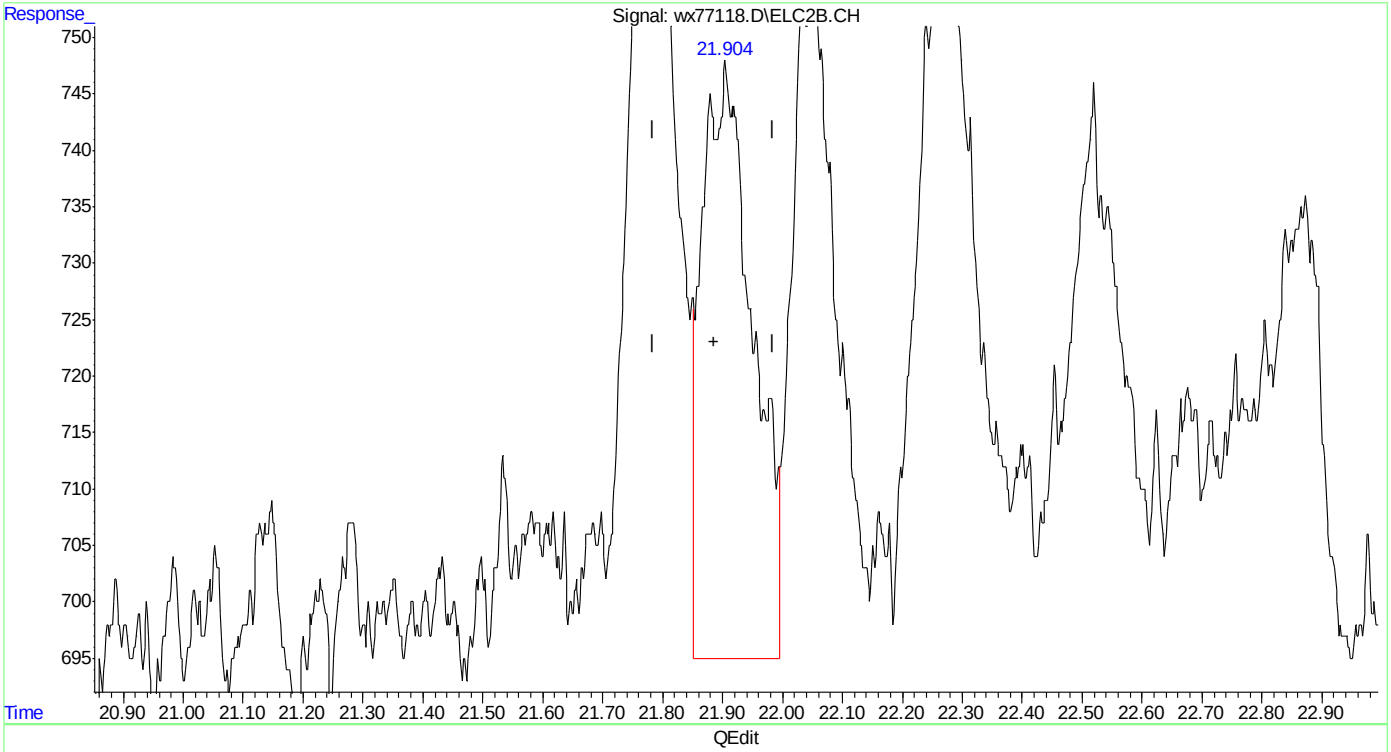
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.906min 0.274 ppb
response 3139

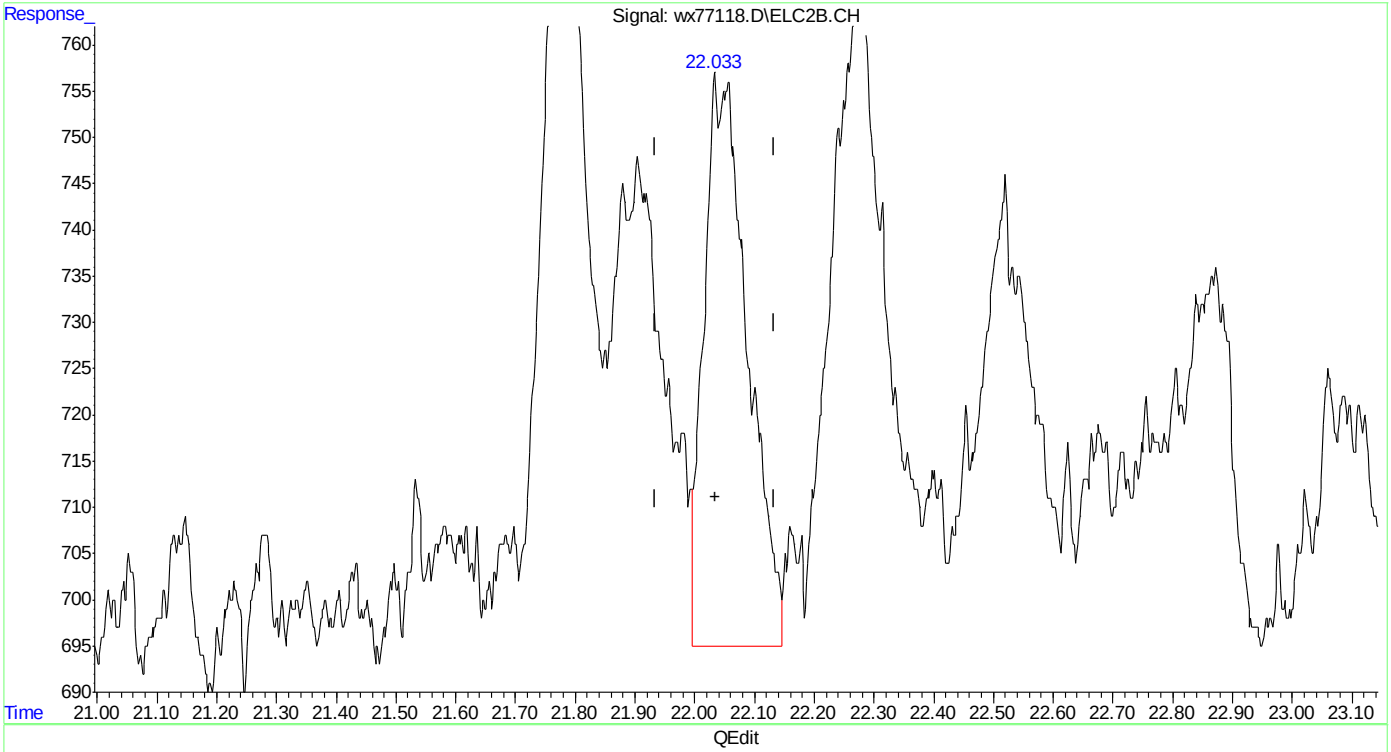
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.036min 0.228 ppb
response 3157

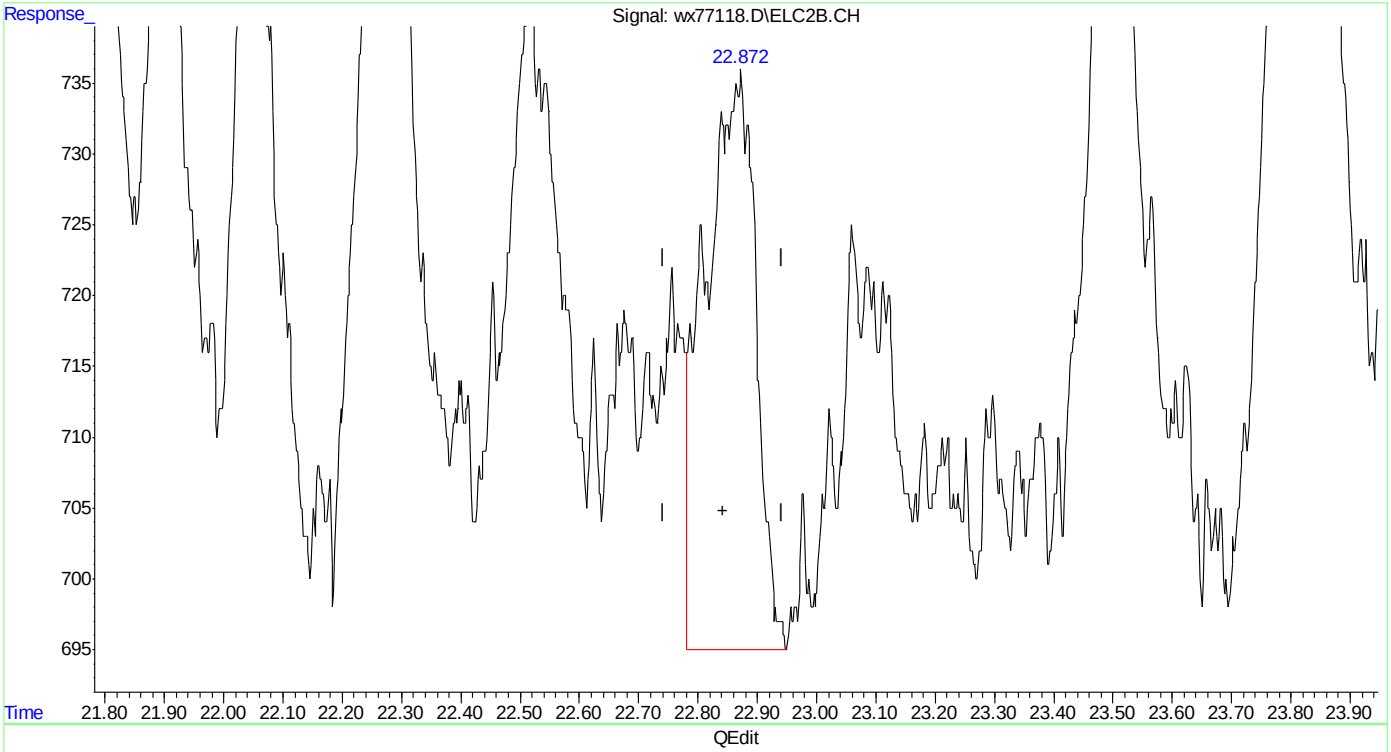
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.869min 0.210 ppb
response 2433

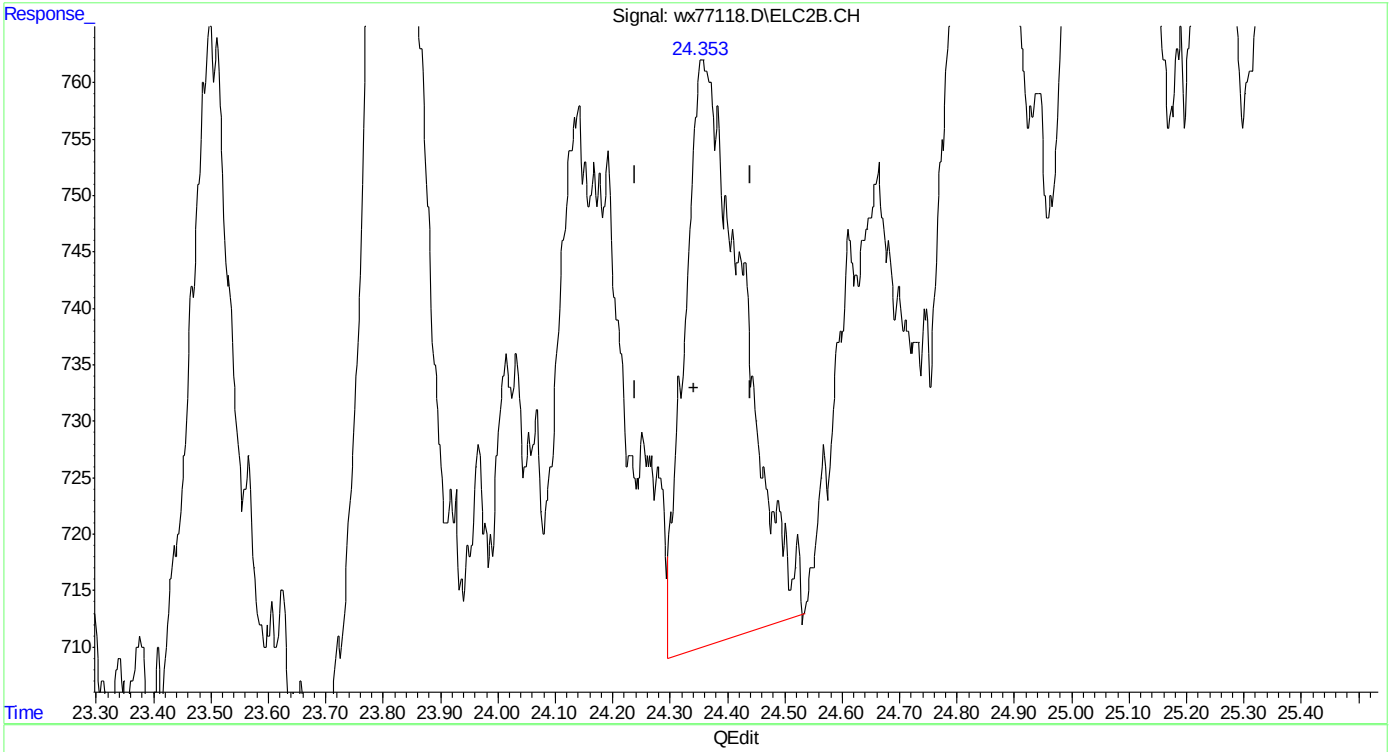
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(22) 1,3,5-trimethylbenzene #2 (t)
24.361min 0.214 ppb
response 3645

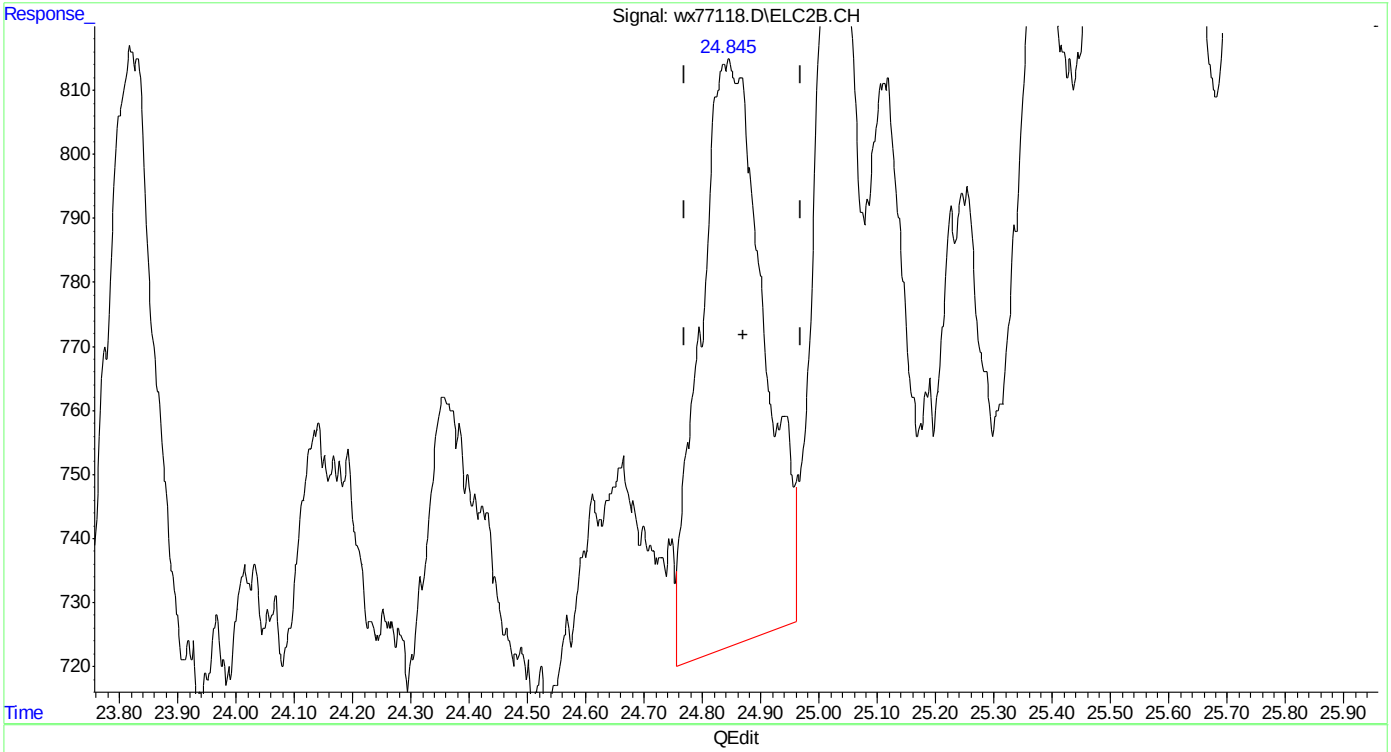
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:40 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.845min 0.544 ppb
response 6885

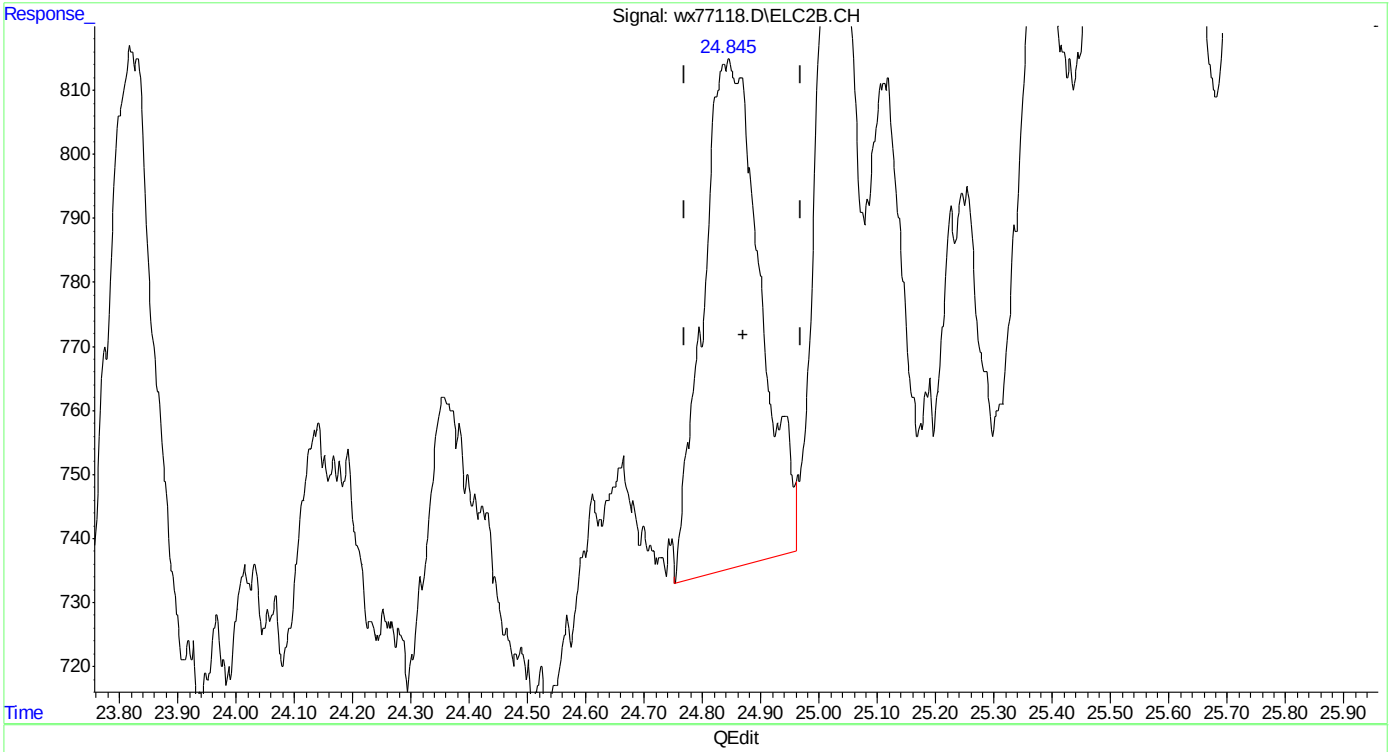
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.845min 0.429 ppb m
response 5429

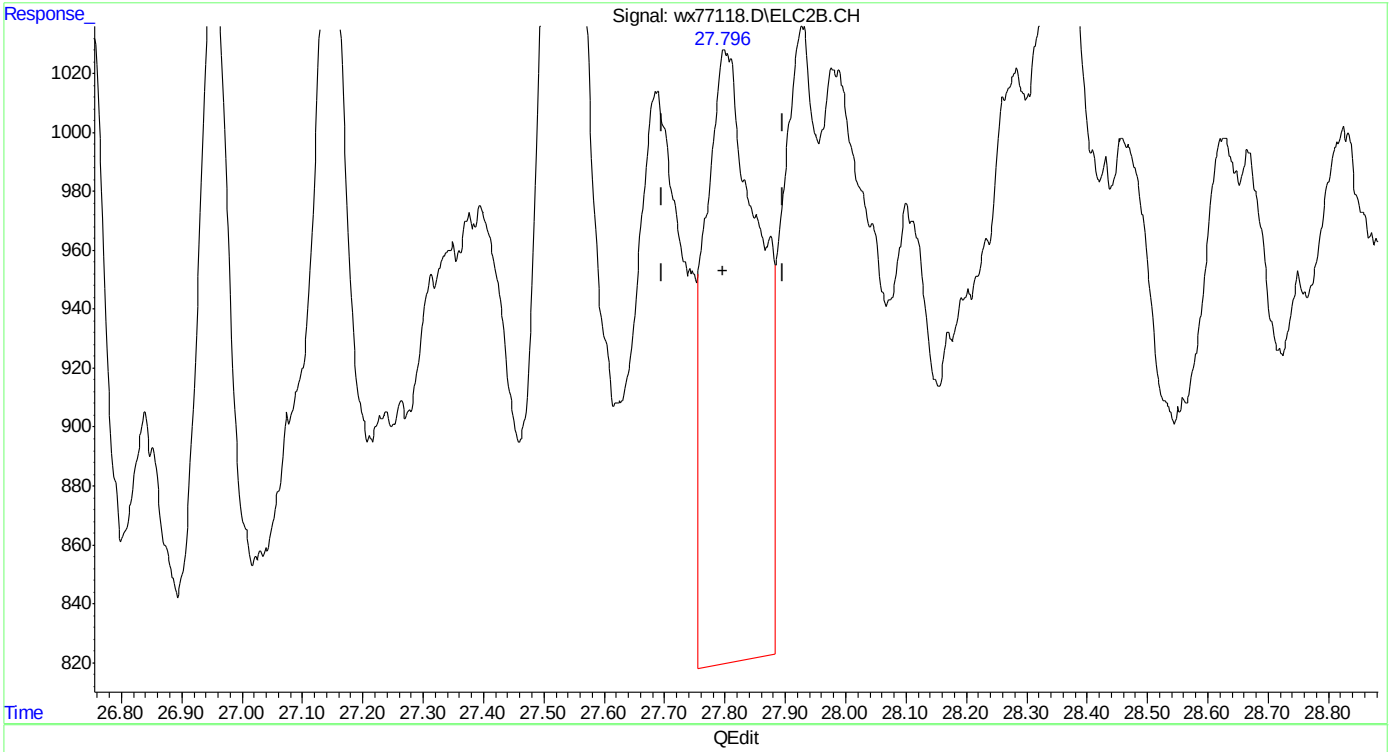
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:53 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.802min 1.419 ppb
response 12640

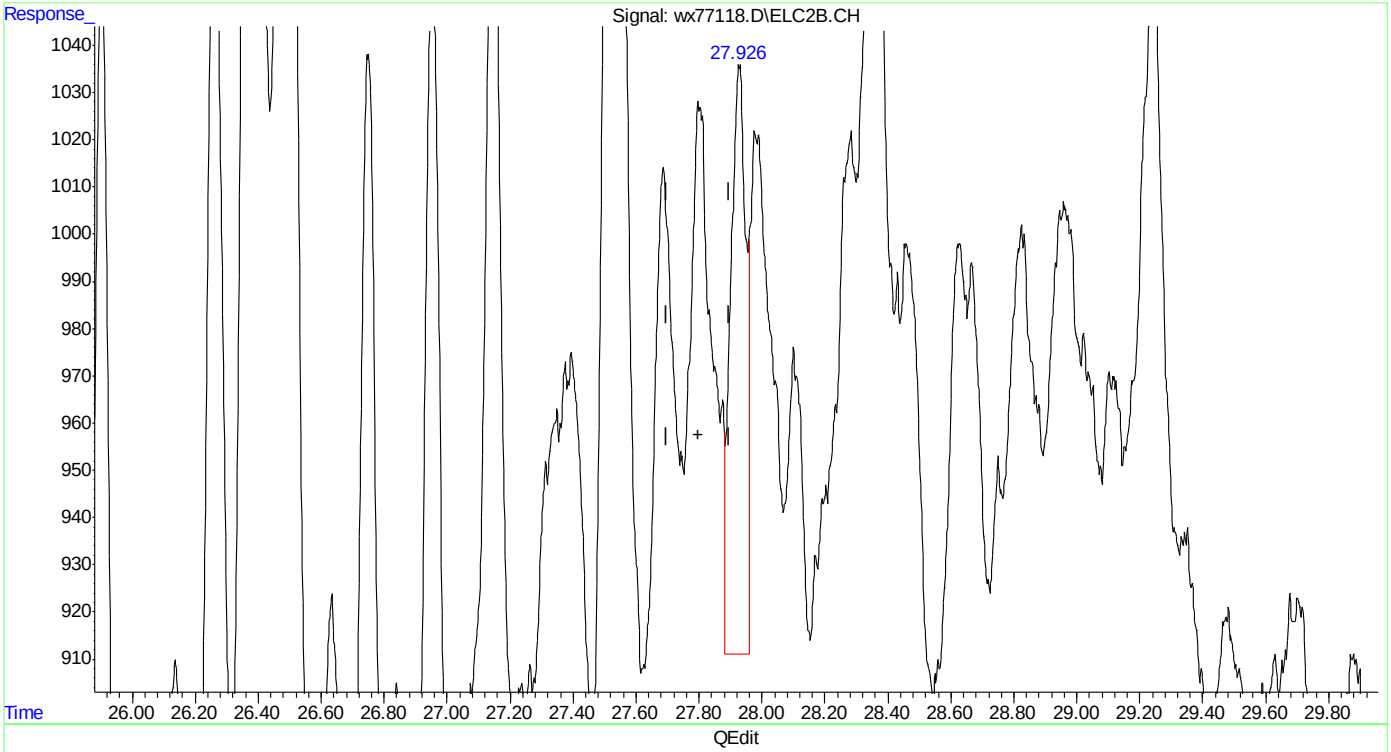
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 09:59:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77118.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:14 pm
Operator : tonyf
Sample : mc46340-3,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.926min 0.477 ppb m
response 4252

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:00:43 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:27:07 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.757	1339764	47.409	ppb	
Spiked Amount 50.000		Recovery =	94.82%		
6) s 2,3,4-trifluorotoluene	19.895	1062337	46.359	ppb	
Spiked Amount 50.000		Recovery =	92.72%		
16) s fluorobenzene #2	14.758	413127	45.312	ppb	
Spiked Amount 50.000		Recovery =	90.62%		
18) s 2,3,4-trifluorotoluen...	19.895	238148	43.603	ppb	
Spiked Amount 50.000		Recovery =	87.21%		
Target Compounds					
1) h rt5.5-7	6.100	59818	2.528	ppb	
2) h rt7/10	8.370	107088	4.526	ppb	
3) h rt10/13	13.510	131683	5.565	ppb	
8) h rt20/25	21.600	1206867	33.672	ppb	
14) mtbe #2	9.133f	16384	3.755	ppb	m
21) o-xylene #2	22.842	3055	0.263	ppb	m
23) 1,2,4-trimethylbenzen...	24.850	4326	0.342	ppb	m
24) naphthalene #2	27.796	5018	0.563	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	301443	23.848	ppb	

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

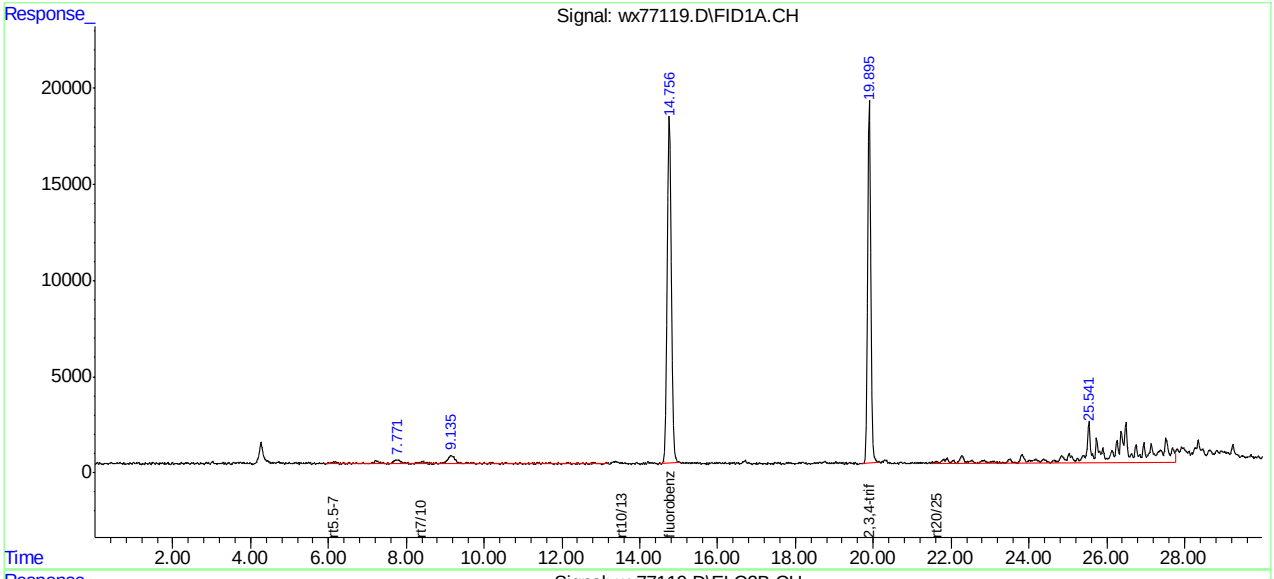
SGS ACCUTEST MC46340

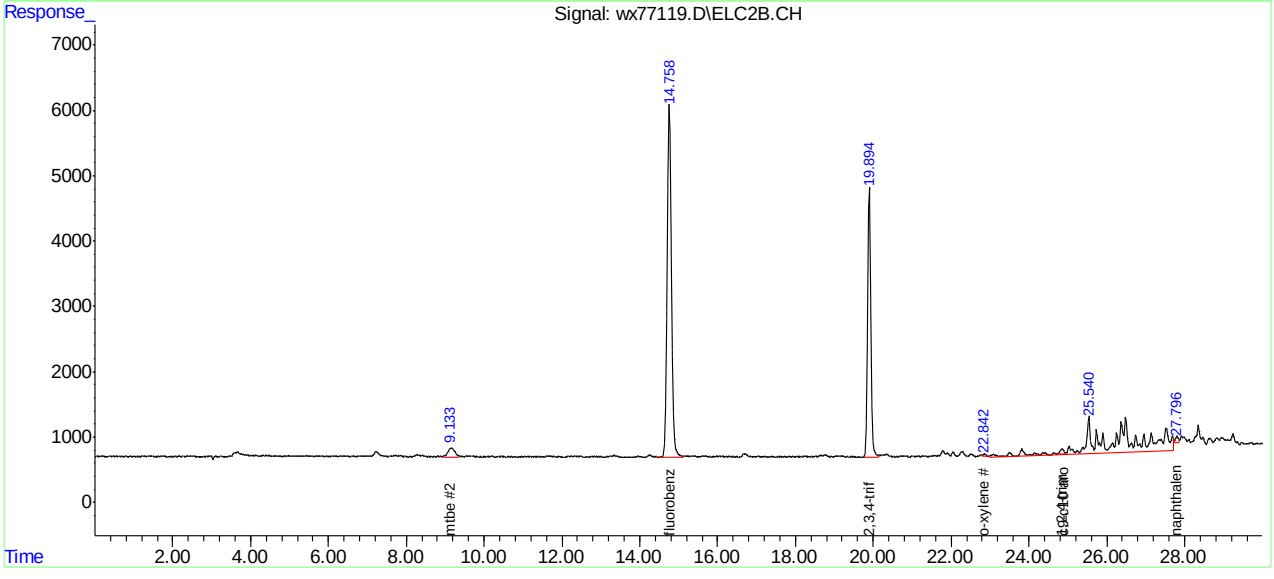
Quantitation Report (QT Reviewed)

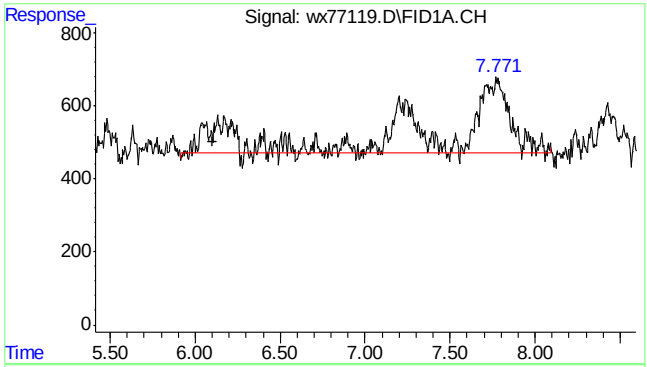
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:27:07 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

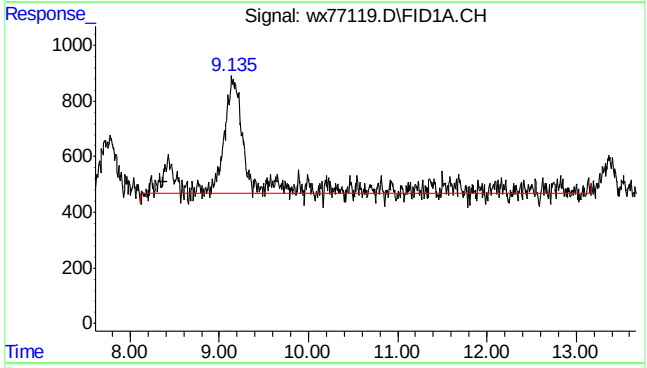






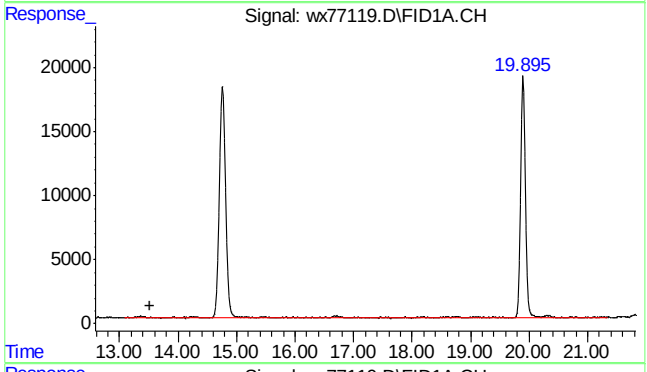
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 59818
Conc: 2.53 ppb m



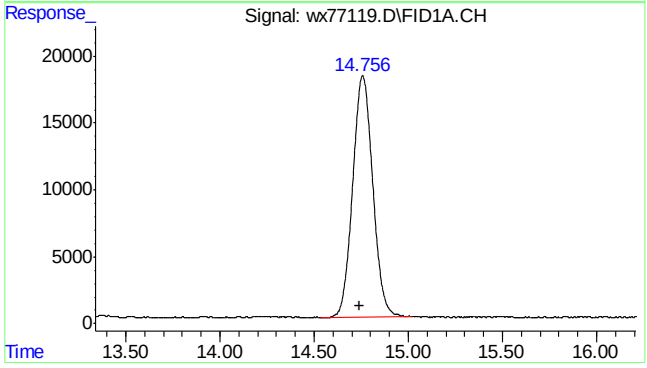
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 107088
Conc: 4.53 ppb m



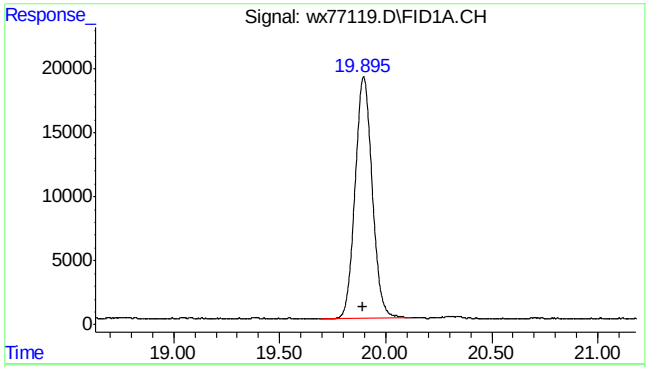
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 131683
Conc: 5.56 ppb m



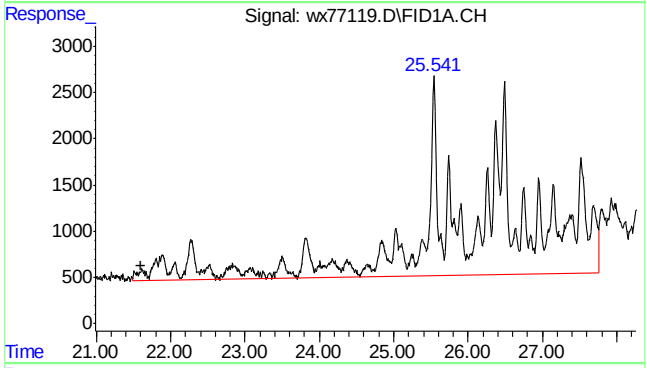
#4 fluorobenzene

R.T.: 14.757 min
Delta R.T.: 0.018 min
Response: 1339764
Conc: 47.41 ppb



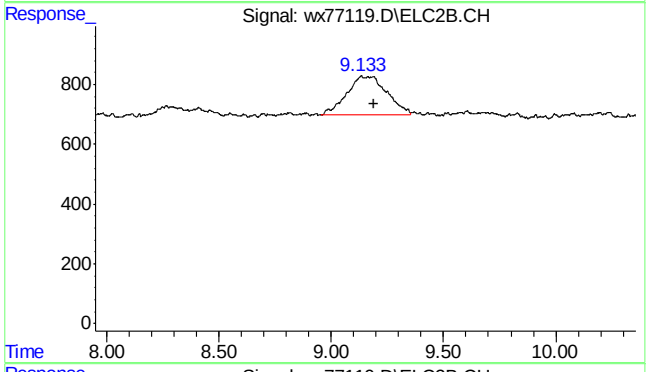
#6 2,3,4-trifluorotoluene

R.T.: 19.895 min
Delta R.T.: 0.005 min
Response: 1062337
Conc: 46.36 ppb



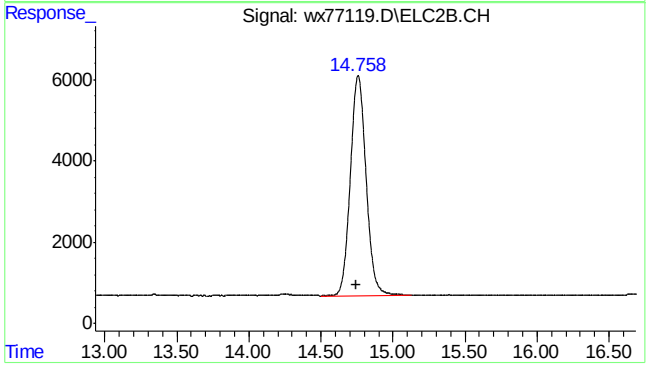
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1206867
Conc: 33.67 ppb m



#14 mtbe #2

R.T.: 9.133 min
Delta R.T.: -0.058 min
Response: 16384
Conc: 3.76 ppb m



#16 fluorobenzene #2

R.T.: 14.758 min
Delta R.T.: 0.014 min
Response: 413127
Conc: 45.31 ppb

7.1.4

7

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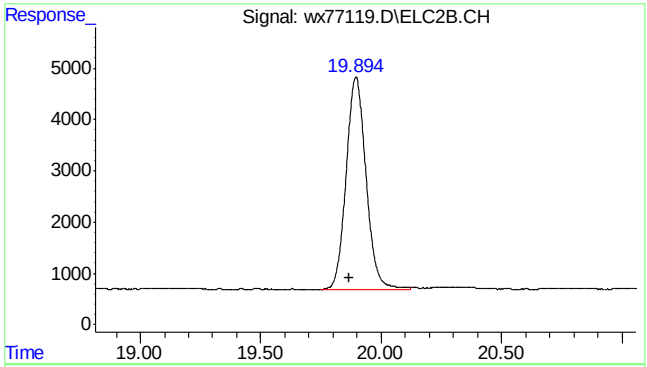
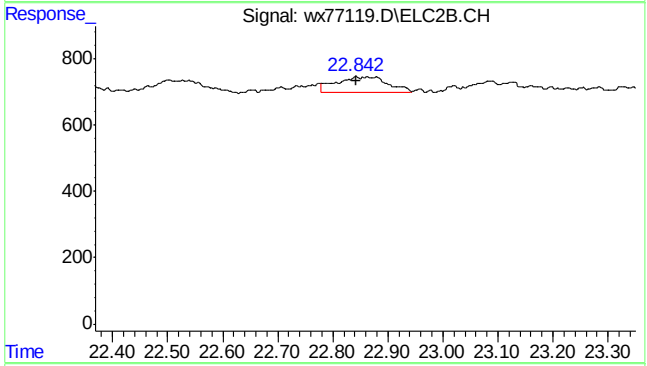


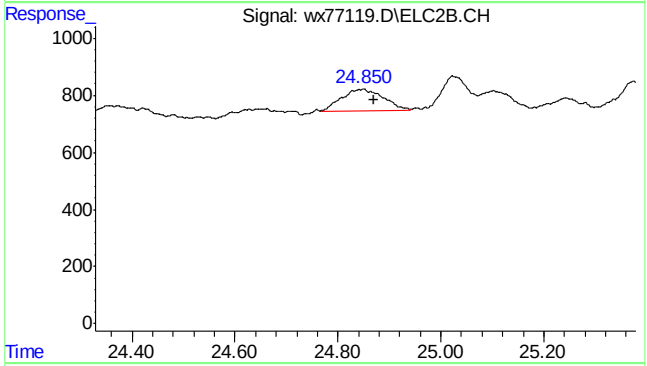
#18 2,3,4-trifluorotoluene #2

R.T.: 19.895 min
Delta R.T.: 0.026 min
Response: 238148
Conc: 43.60 ppb



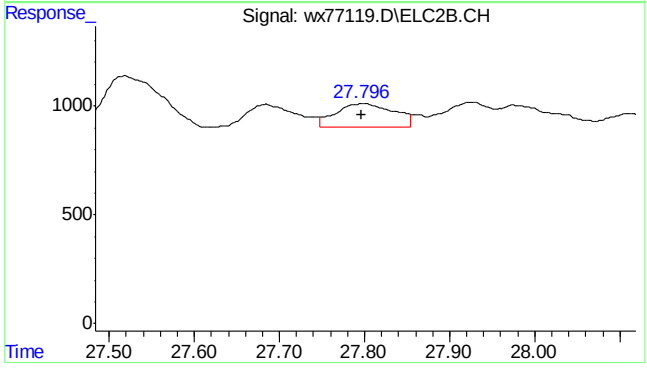
#21 o-xylene #2

R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 3055
Conc: 0.26 ppb m



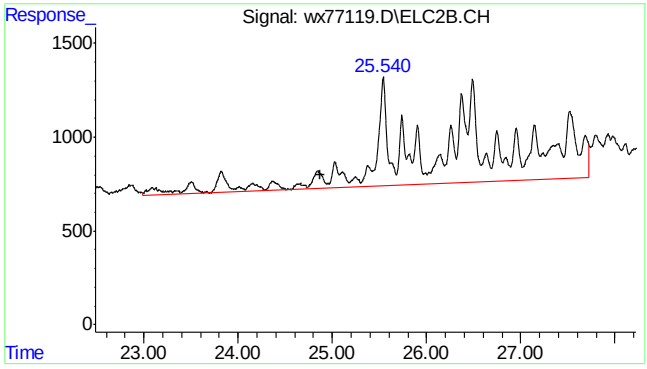
#23 1,2,4-trimethylbenzene #2

R.T.: 24.850 min
Delta R.T.: -0.020 min
Response: 4326
Conc: 0.34 ppb m



#24 naphthalene #2

R.T.: 27.796 min
Delta R.T.: 0.000 min
Response: 5018
Conc: 0.56 ppb m



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

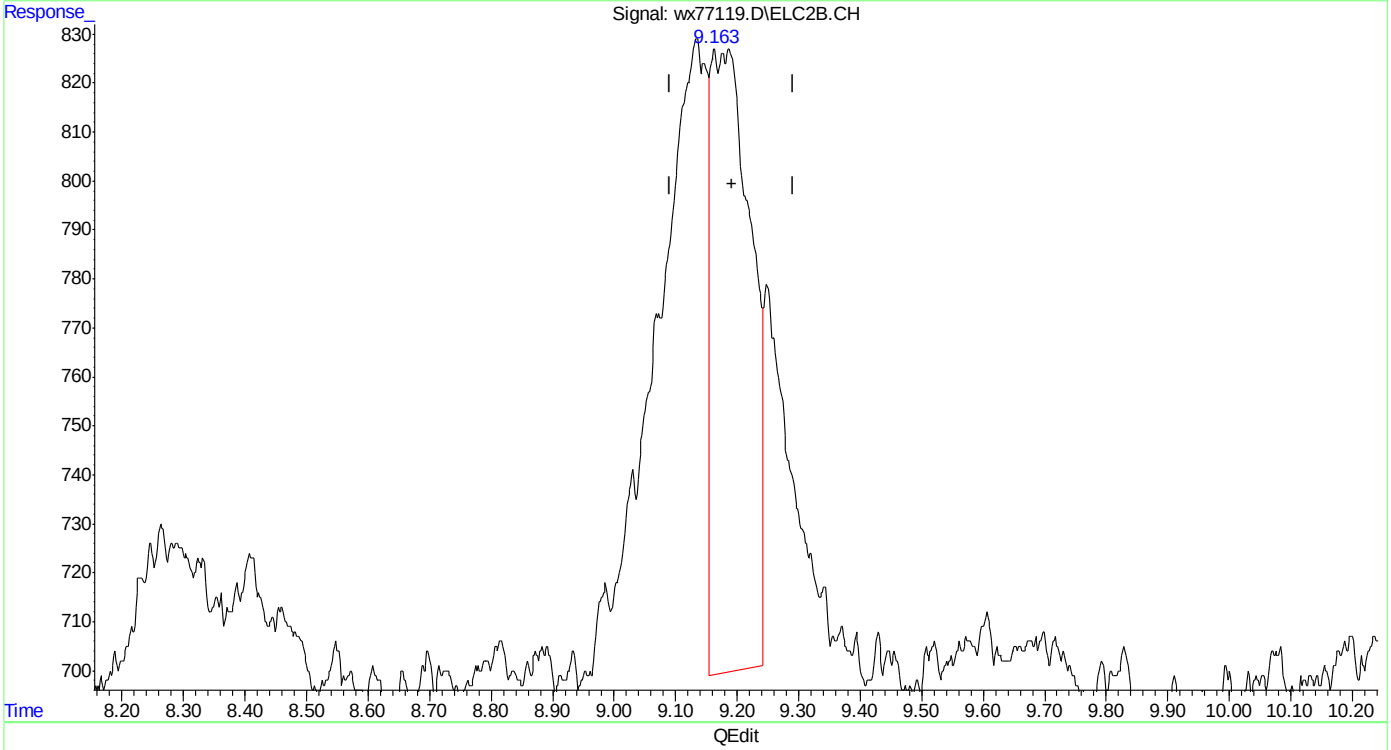
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 301443
Conc: 23.85 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.163min 1.327 ppb
response 5788

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:25:51 2016

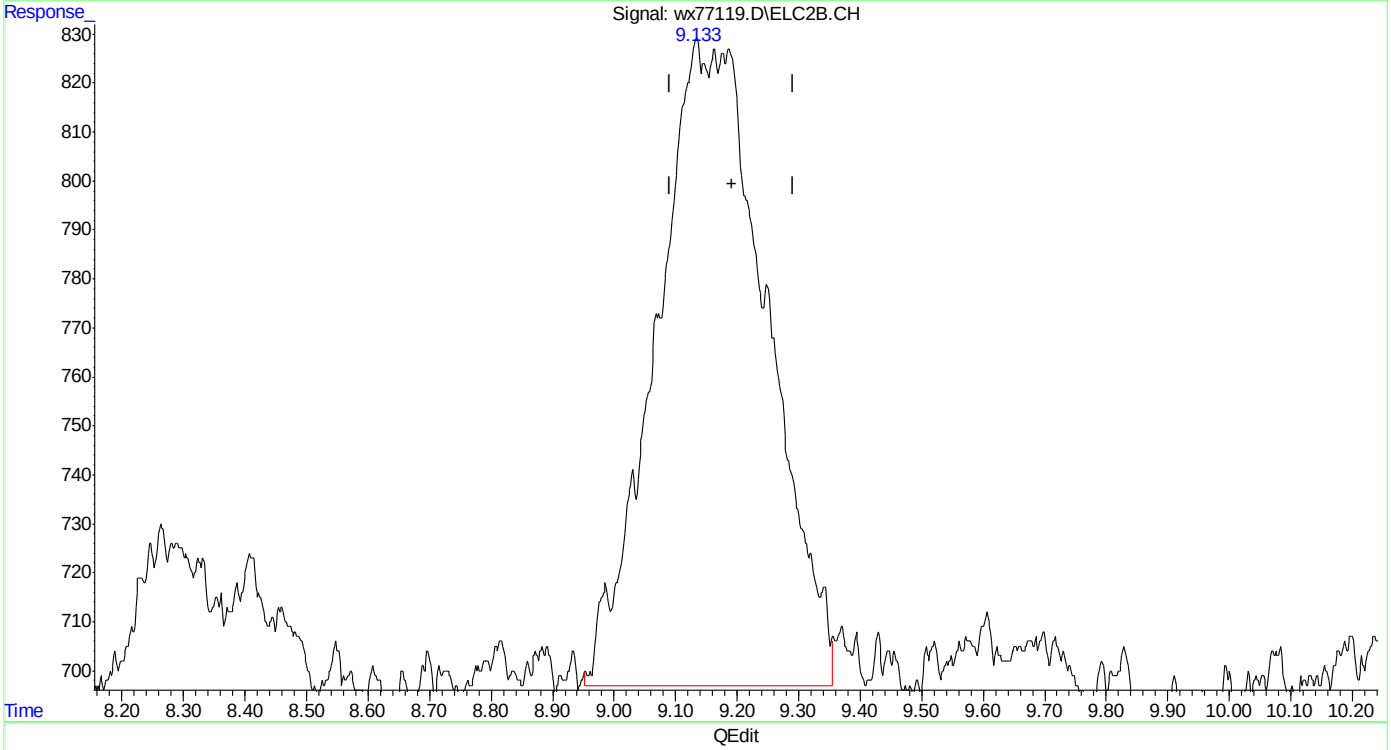
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.133min 3.755 ppb m
response 16384

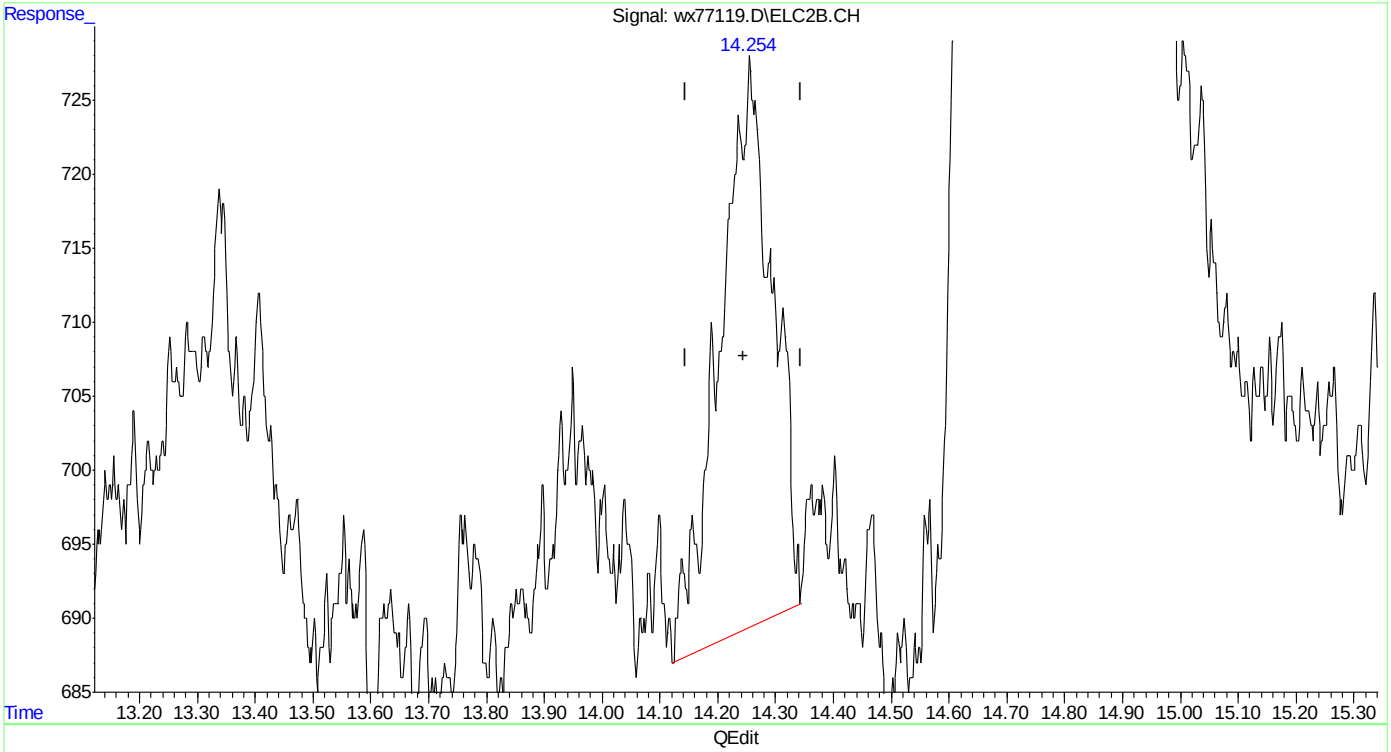
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:25:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.258min 0.170 ppb
response 2411

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:03 2016

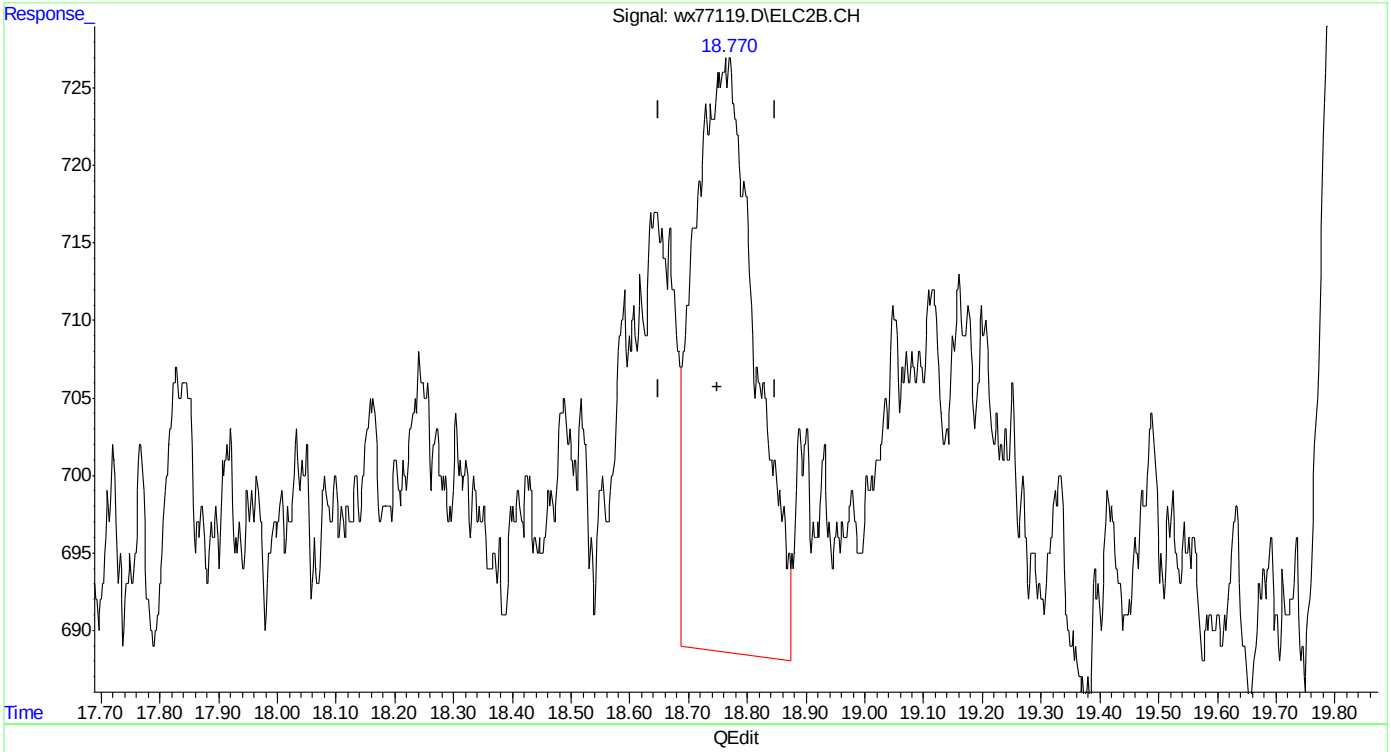
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.765min 0.214 ppb
response 2754

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:08 2016

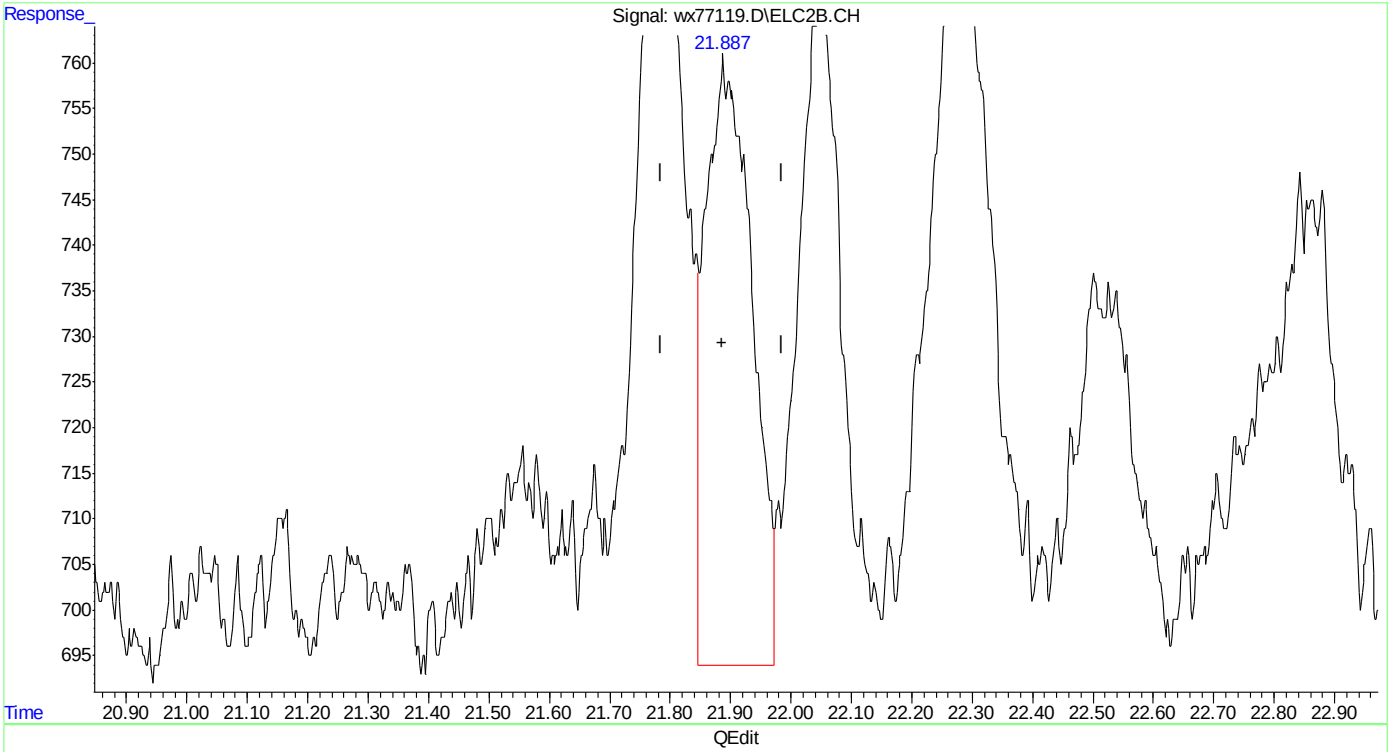
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.891min 0.312 ppb
response 3574

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:14 2016

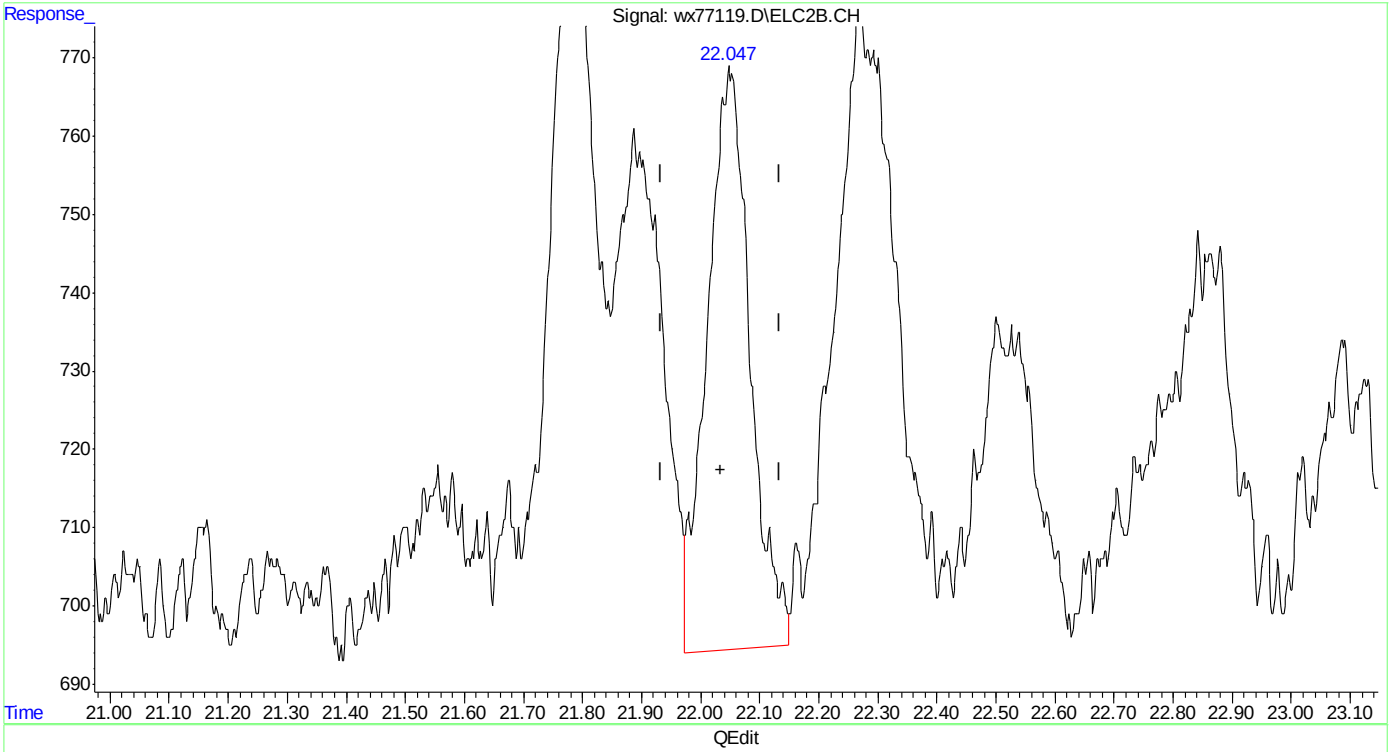
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.050min 0.270 ppb
response 3726

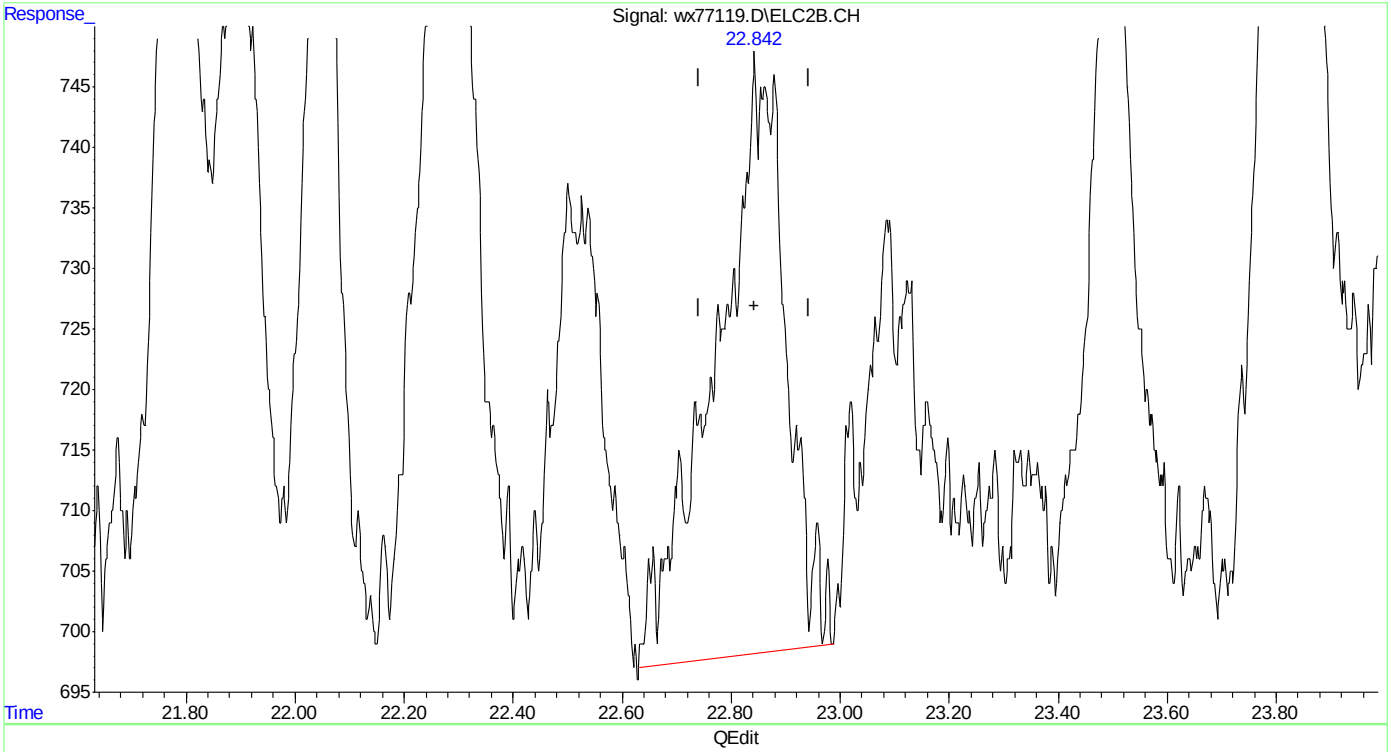
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.844min 0.381 ppb
response 4421

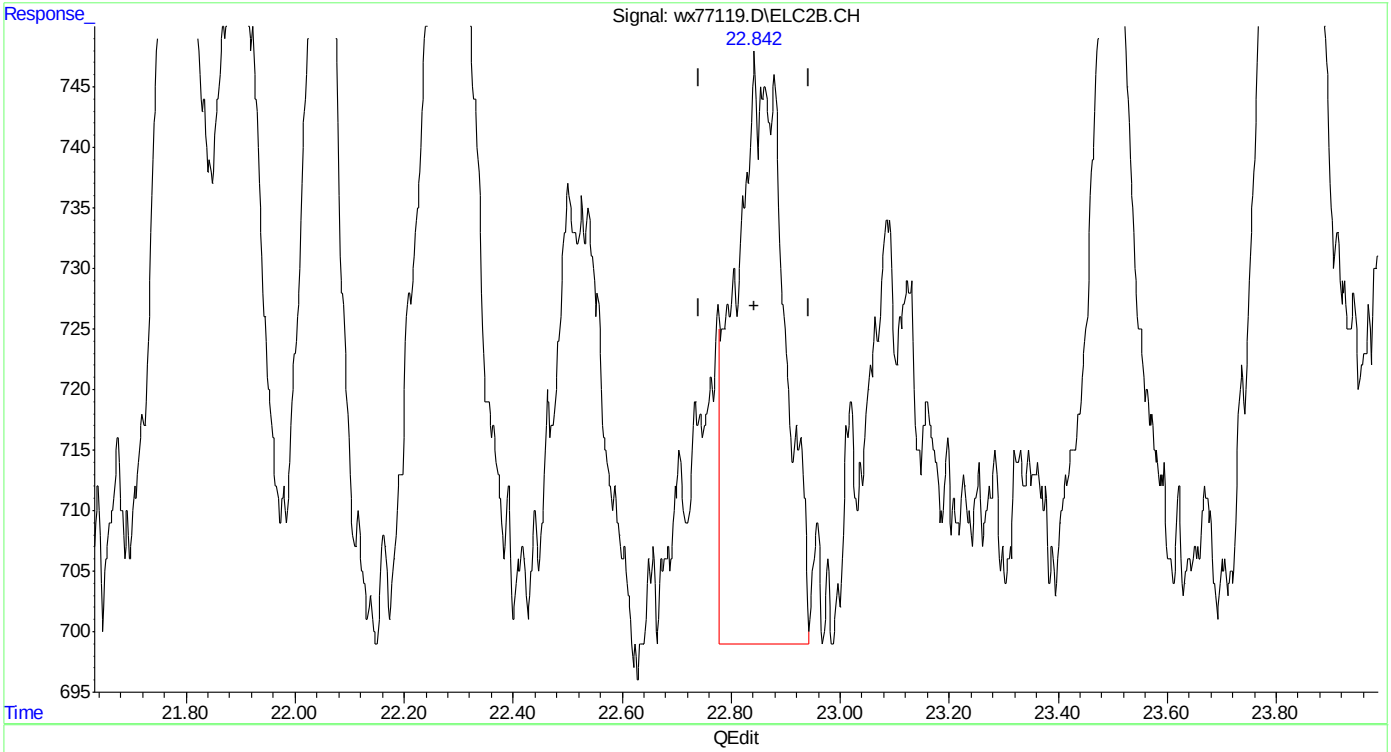
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.842min 0.263 ppb m
response 3055

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:36 2016

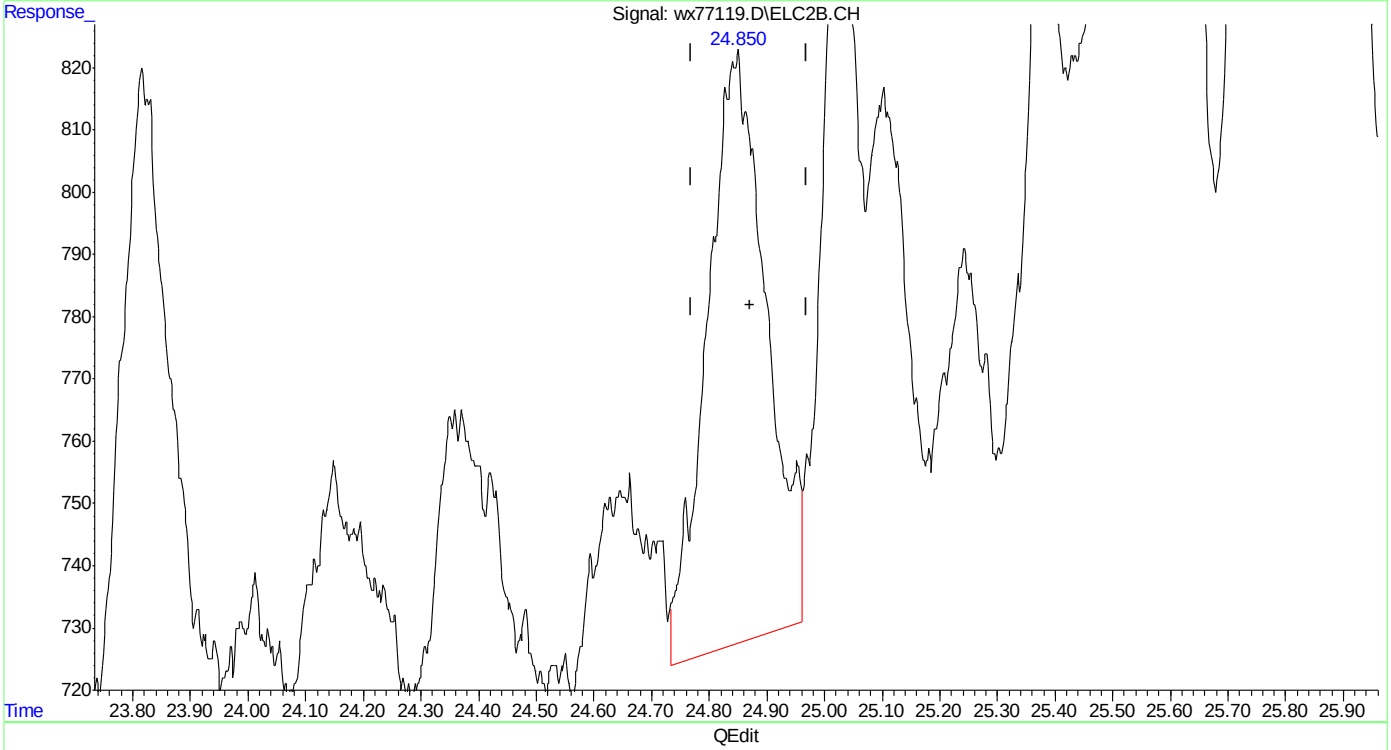
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.846min 0.532 ppb
response 6728

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:41 2016

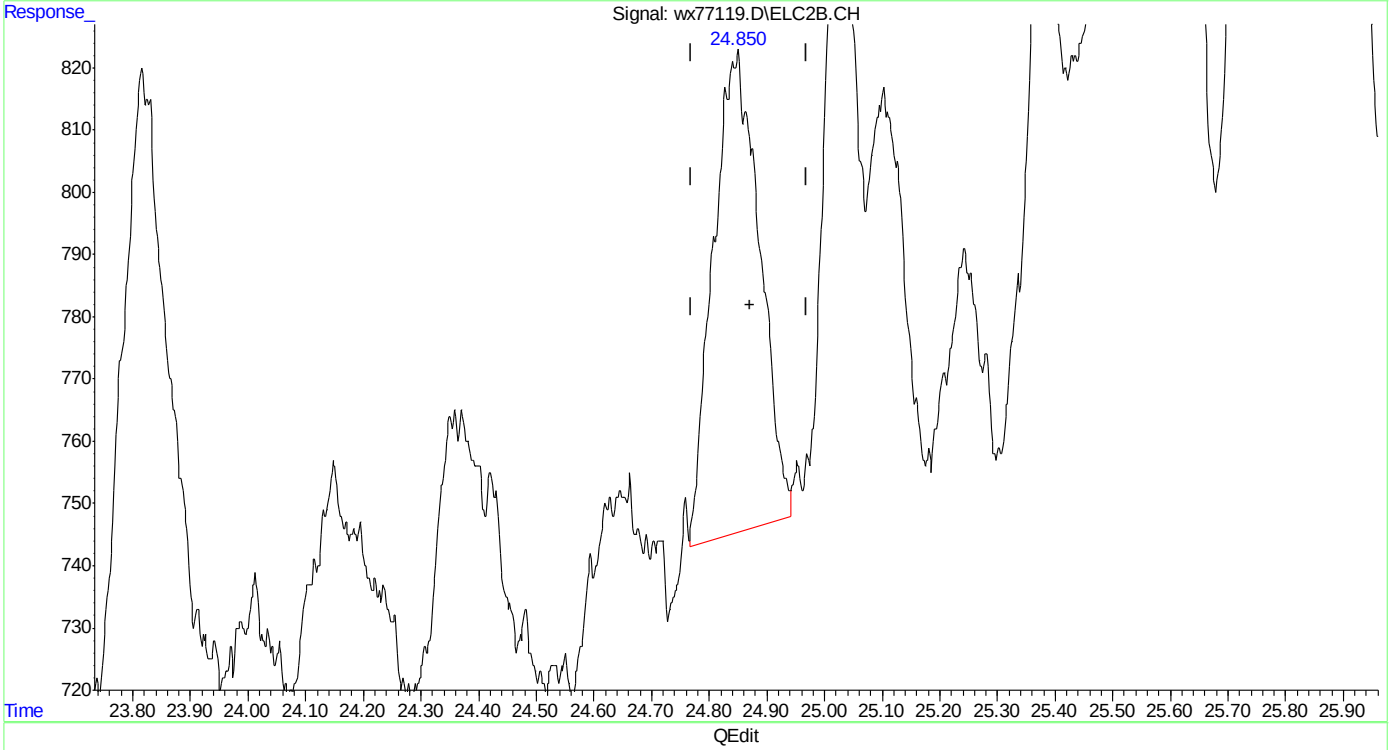
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.850min 0.342 ppb m
response 4326

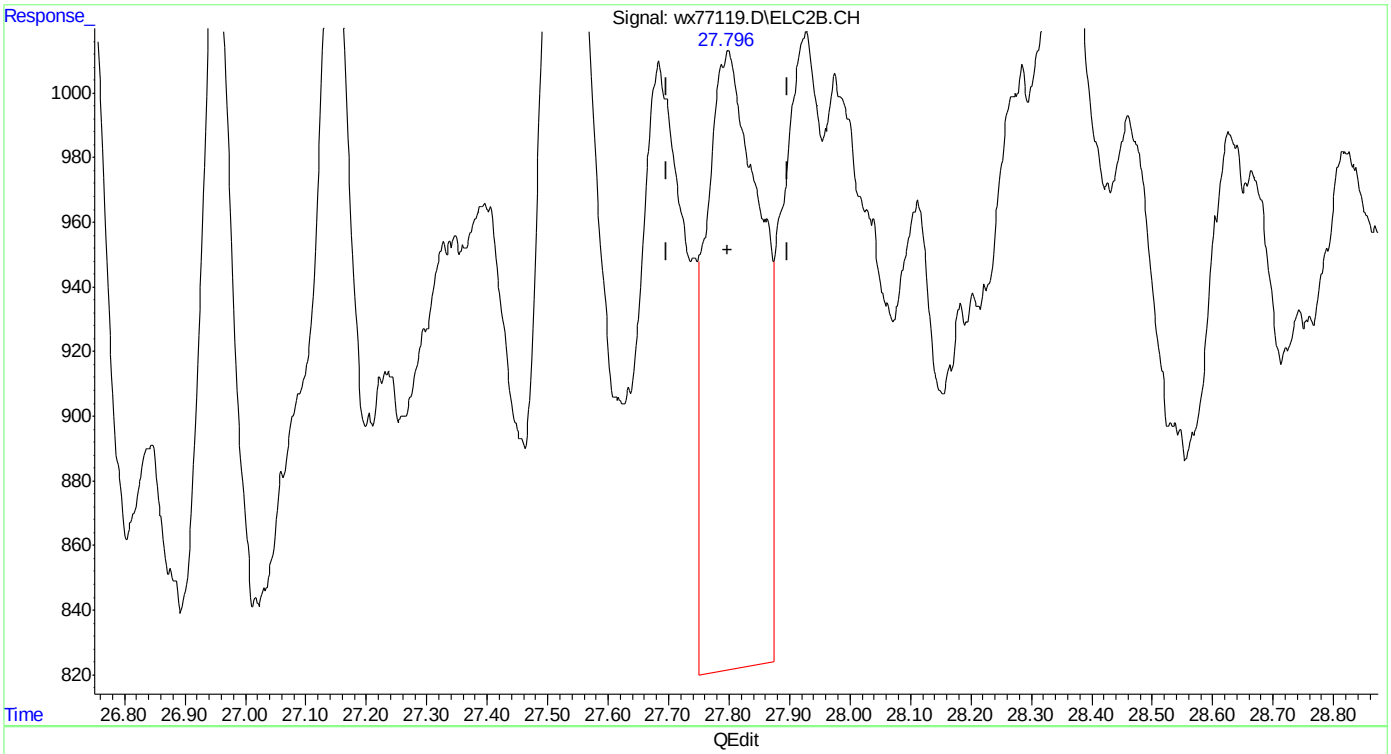
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.798min 1.326 ppb
response 11812

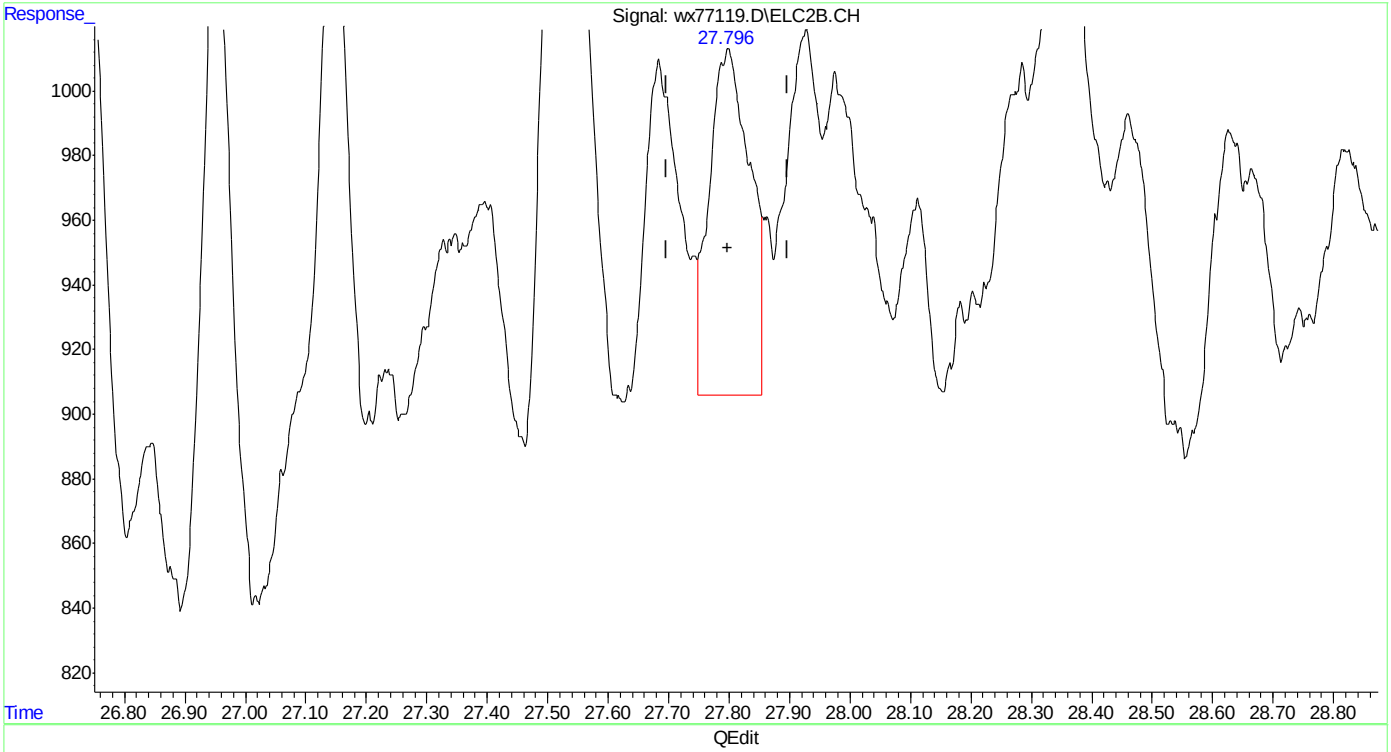
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:26:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77119.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 10:53 pm
Operator : tonyf
Sample : mc46340-4,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:02 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.796min 0.563 ppb m
response 5018

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:31:19 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.756	1341343	47.465	ppb	
Spiked Amount 50.000		Recovery =	94.93%		
6) s 2,3,4-trifluorotoluene	19.894	1069528	46.673	ppb	
Spiked Amount 50.000		Recovery =	93.35%		
16) s fluorobenzene #2	14.756	413230	45.323	ppb	
Spiked Amount 50.000		Recovery =	90.65%		
18) s 2,3,4-trifluorotoluen...	19.894	237636	43.510	ppb	
Spiked Amount 50.000		Recovery =	87.02%		
Target Compounds					
1) h rt5.5-7	6.100	172949	7.309	ppb	
2) h rt7/10	8.370	191086	8.075	ppb	
3) h rt10/13	13.510	291766	12.330	ppb	
8) h rt20/25	21.600	829349	23.139	ppb	
14) mtbe #2	9.156	35109	8.047	ppb	m
17) toluene #2	18.761	3515	0.273	ppb	
24) naphthalene #2	27.801	4548	0.511	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	235416	18.625	ppb	

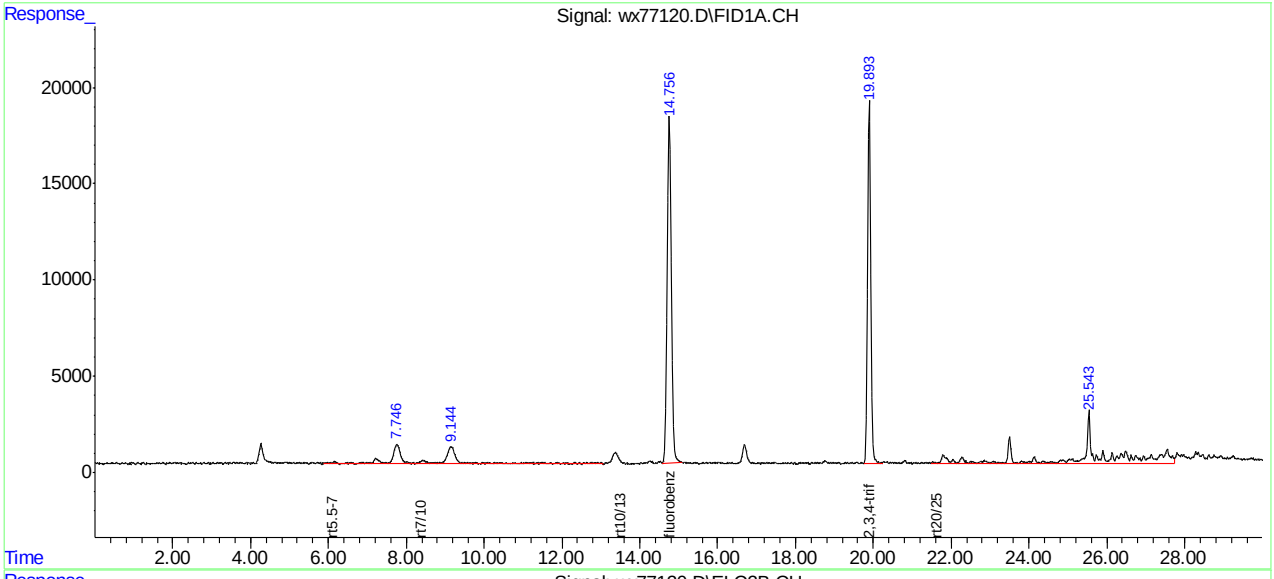
(f)=RT Delta > 1/2 Window (m)=manual int.

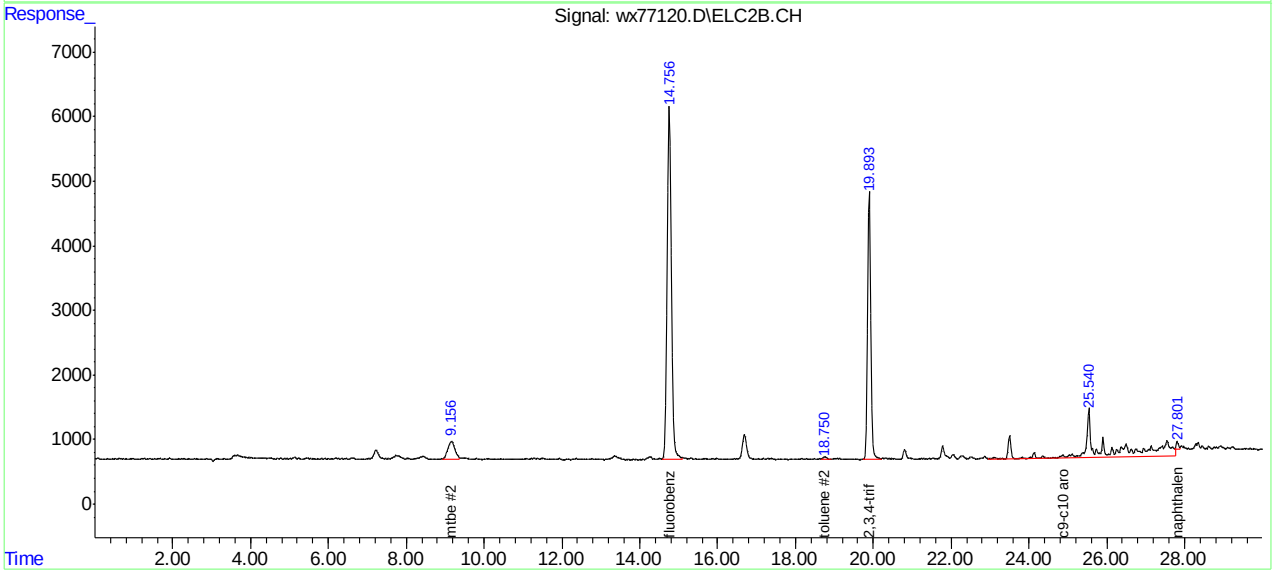
Quantitation Report (QT Reviewed)

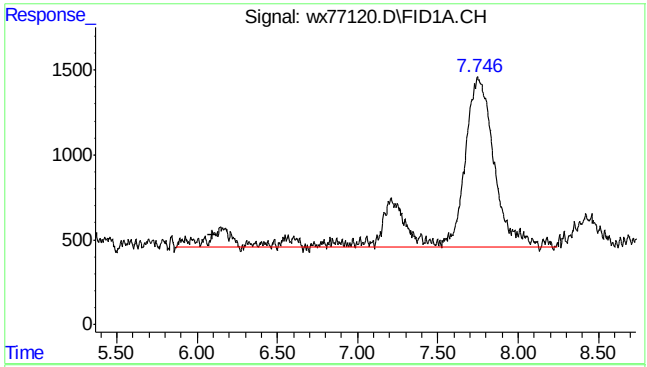
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:31:19 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

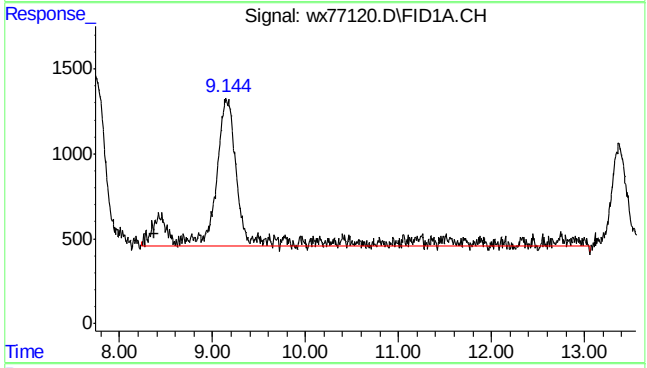






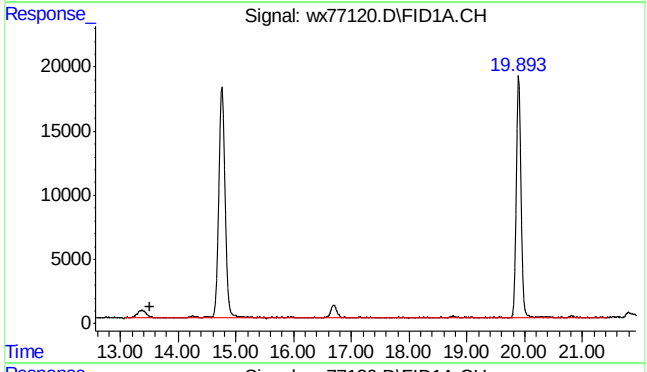
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 172949
Conc: 7.31 ppb m



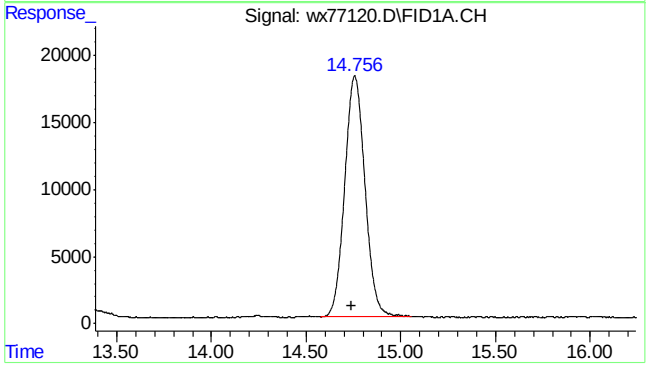
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 191086
Conc: 8.08 ppb m



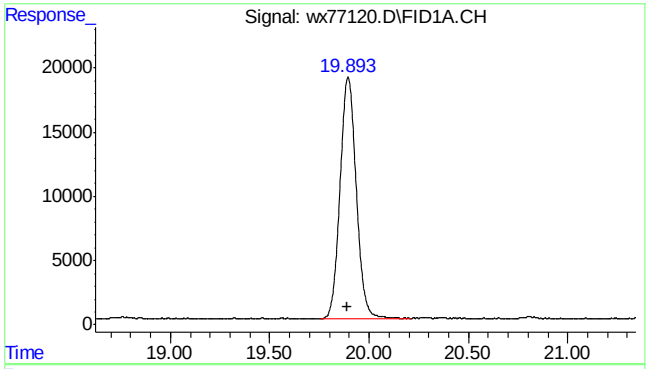
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 291766
Conc: 12.33 ppb m



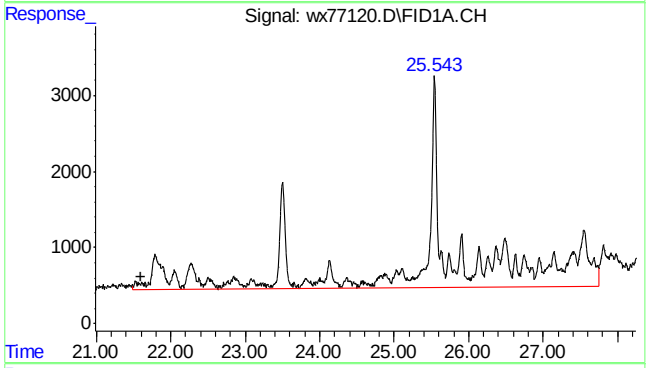
#4 fluorobenzene

R.T.: 14.756 min
Delta R.T.: 0.018 min
Response: 1341343
Conc: 47.47 ppb



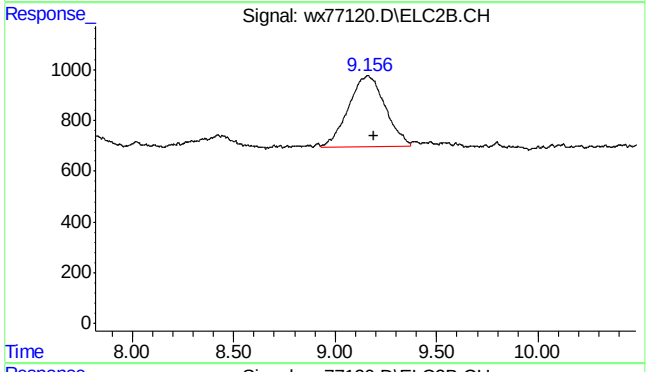
#6 2,3,4-trifluorotoluene

R.T.: 19.894 min
Delta R.T.: 0.004 min
Response: 1069528
Conc: 46.67 ppb



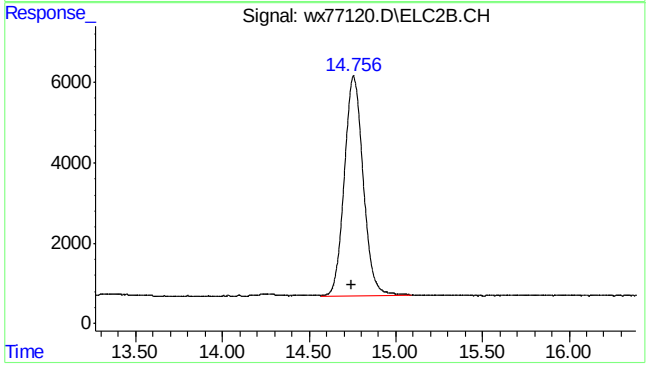
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 829349
Conc: 23.14 ppb m



#14 mtbe #2

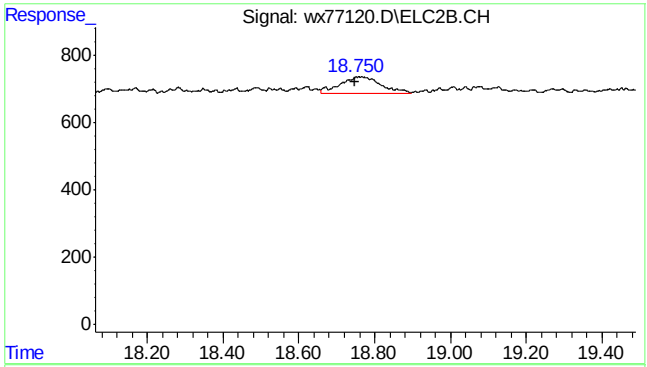
R.T.: 9.156 min
Delta R.T.: -0.035 min
Response: 35109
Conc: 8.05 ppb m



#16 fluorobenzene #2

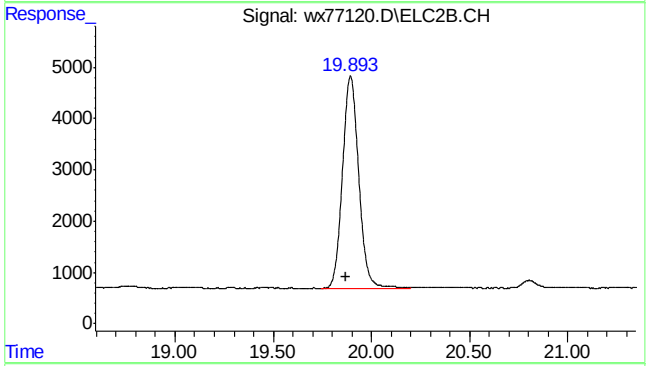
R.T.: 14.756 min
Delta R.T.: 0.012 min
Response: 413230
Conc: 45.32 ppb

SGS ACCUTEST MC46340



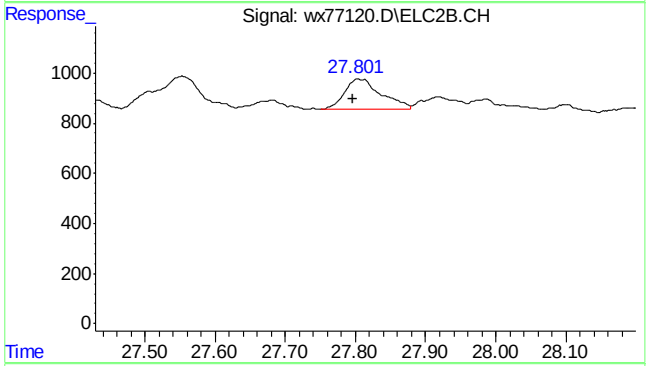
#17 toluene #2

R.T.: 18.761 min
Delta R.T.: 0.012 min
Response: 3515
Conc: 0.27 ppb



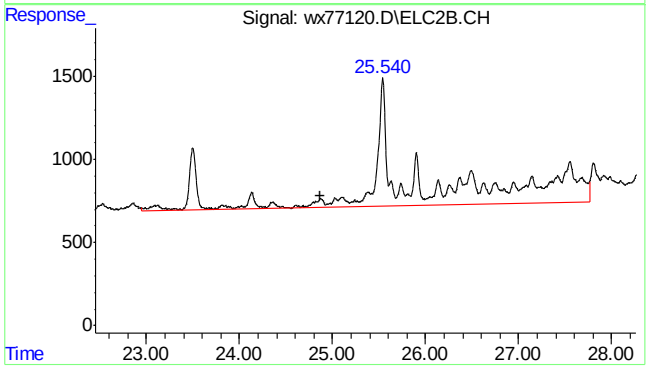
#18 2,3,4-trifluorotoluene #2

R.T.: 19.894 min
Delta R.T.: 0.025 min
Response: 237636
Conc: 43.51 ppb



#24 naphthalene #2

R.T.: 27.801 min
Delta R.T.: 0.004 min
Response: 4548
Conc: 0.51 ppb m



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

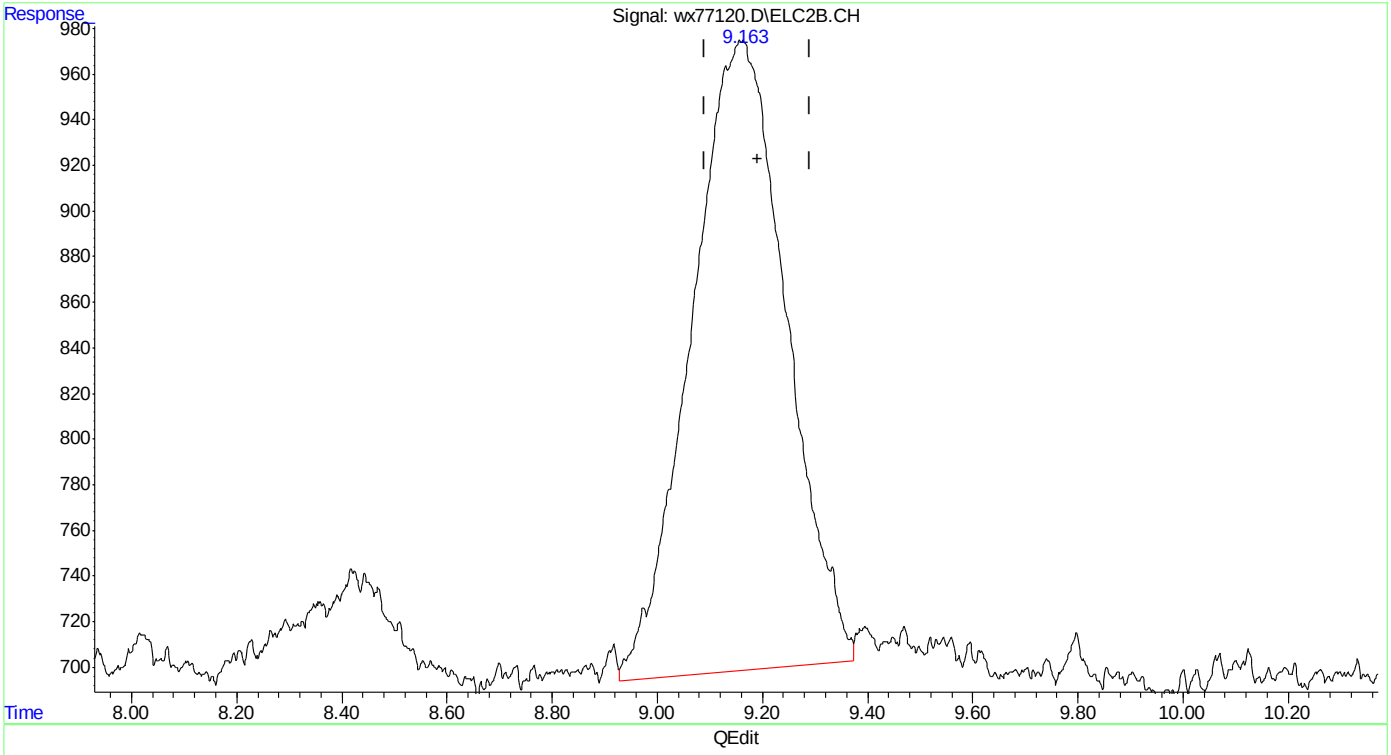
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 235416
Conc: 18.62 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.163min 7.910 ppb
response 34512

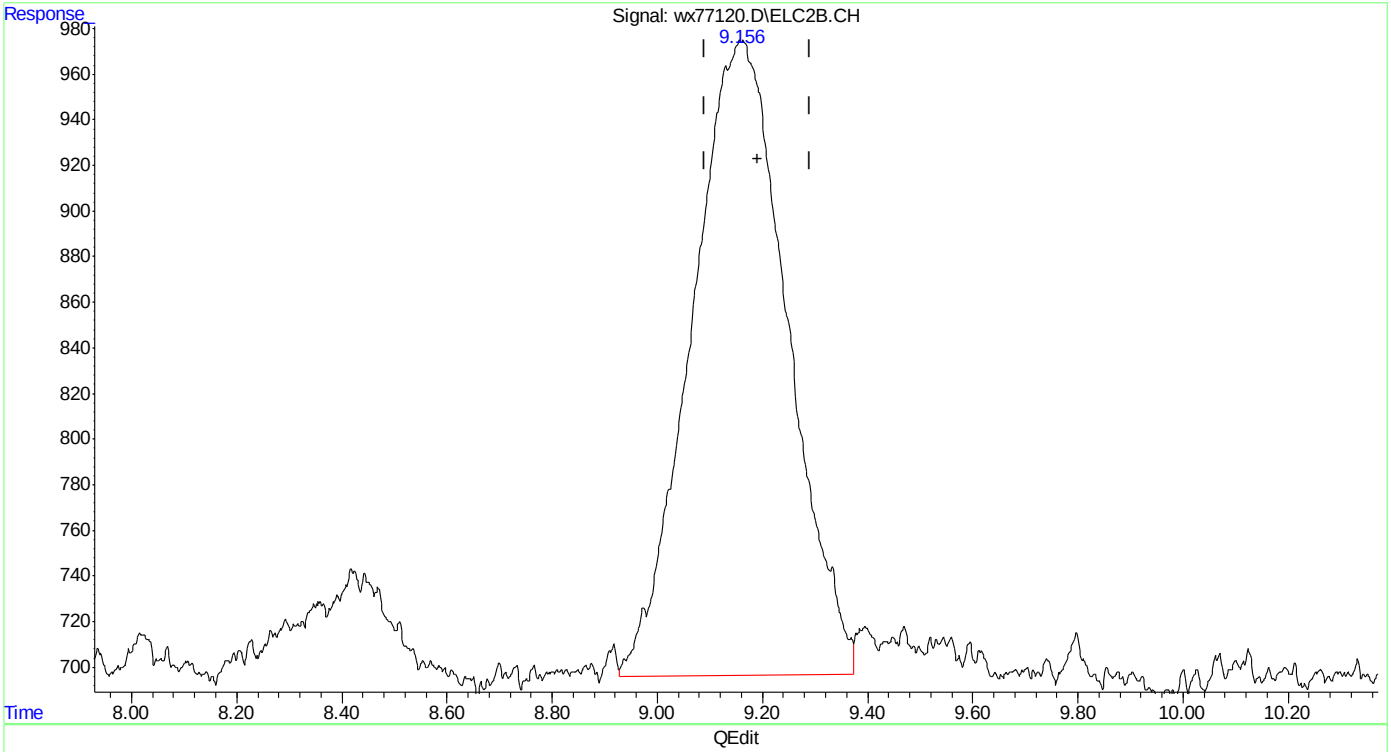
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:30:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.156min 8.047 ppb m
response 35109

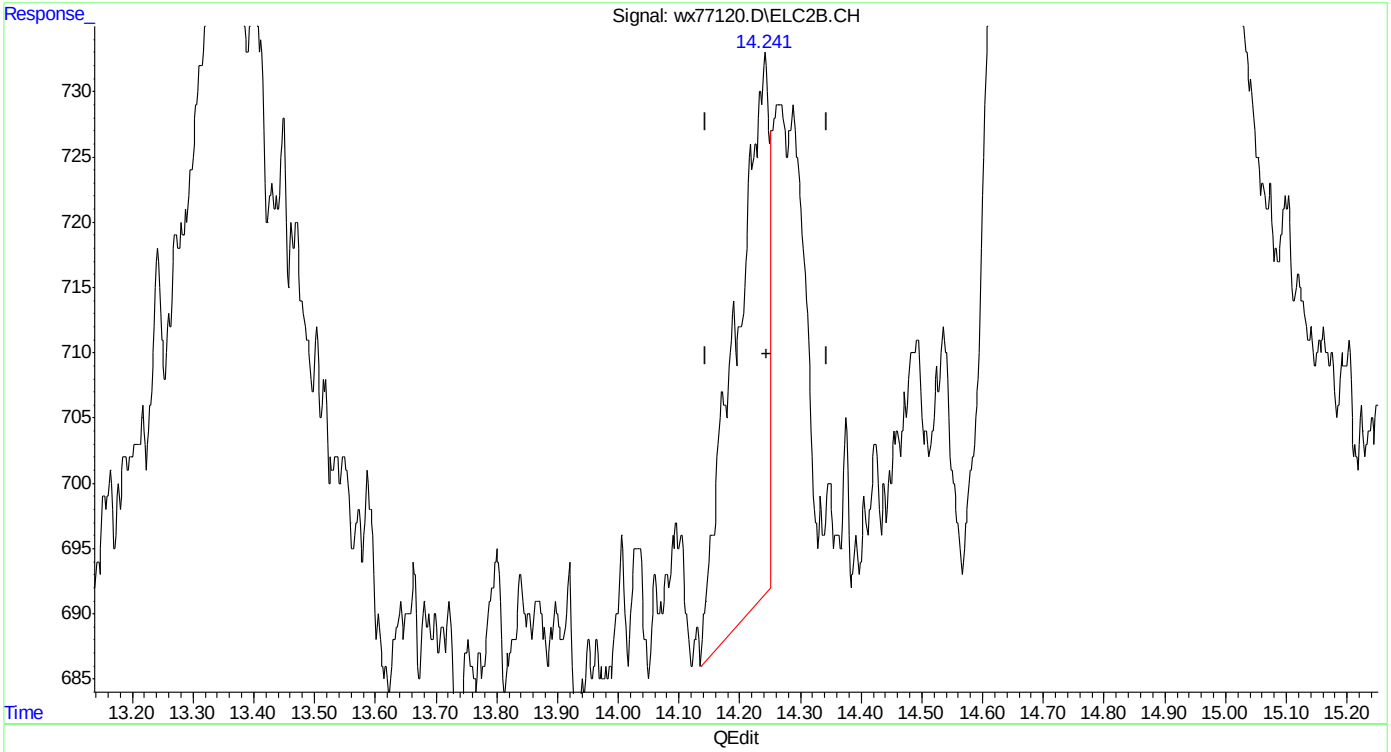
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:30:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.242min 0.110 ppb
response 1556

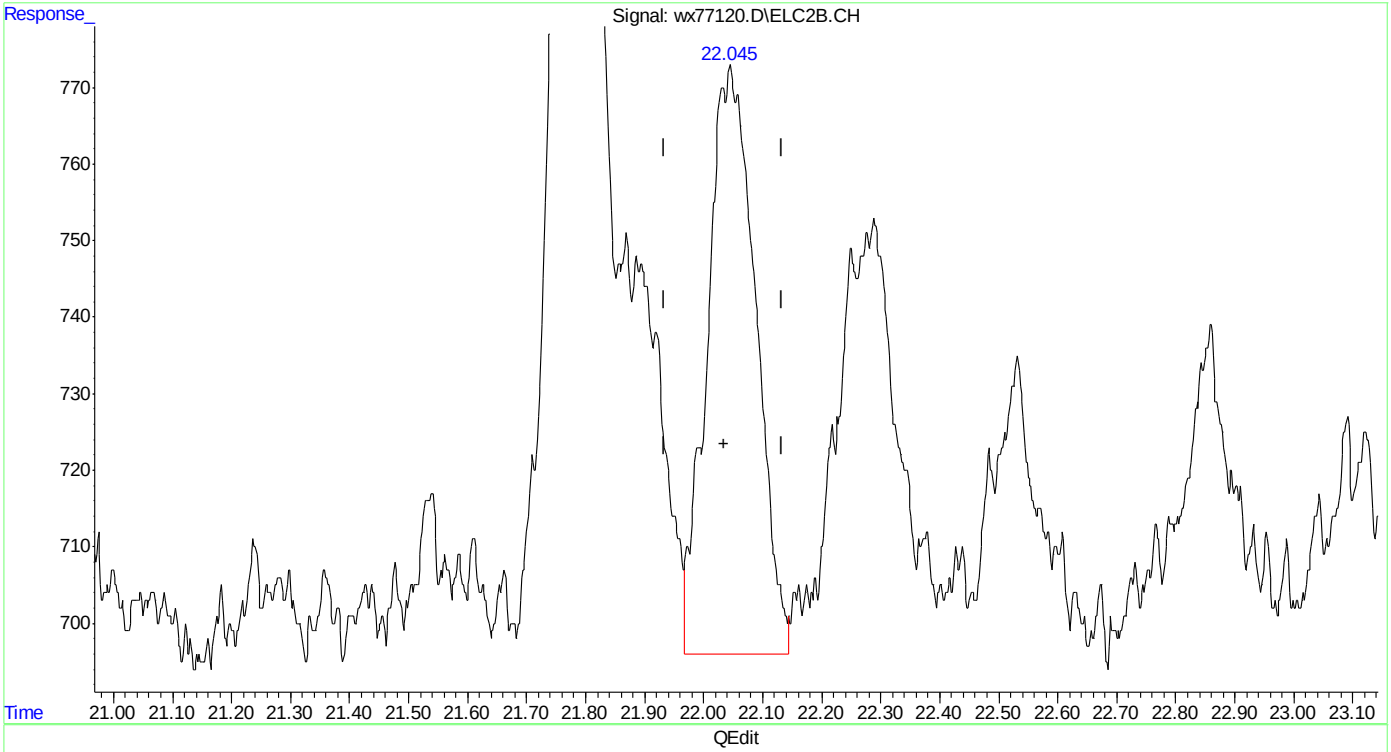
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:30:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.046min 0.314 ppb
response 4335

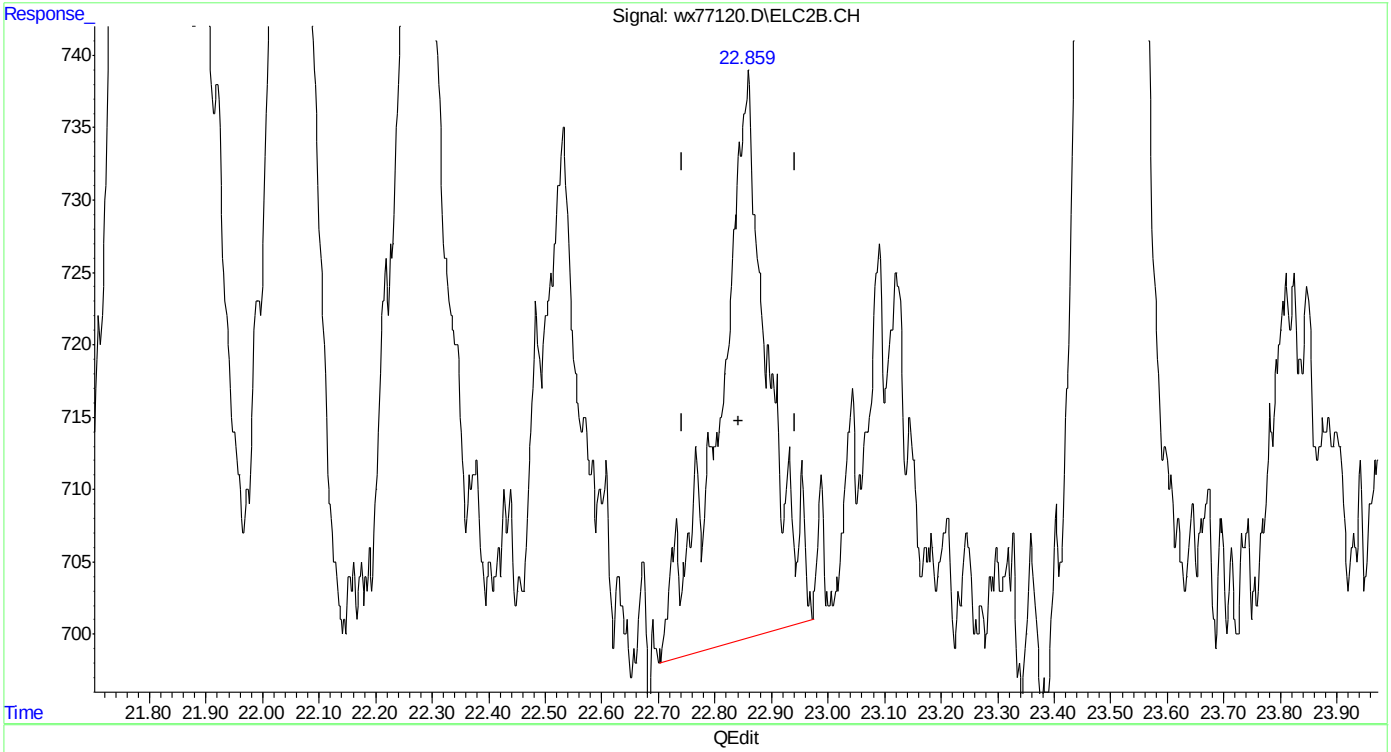
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:30:40 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.857min 0.199 ppb
response 2313

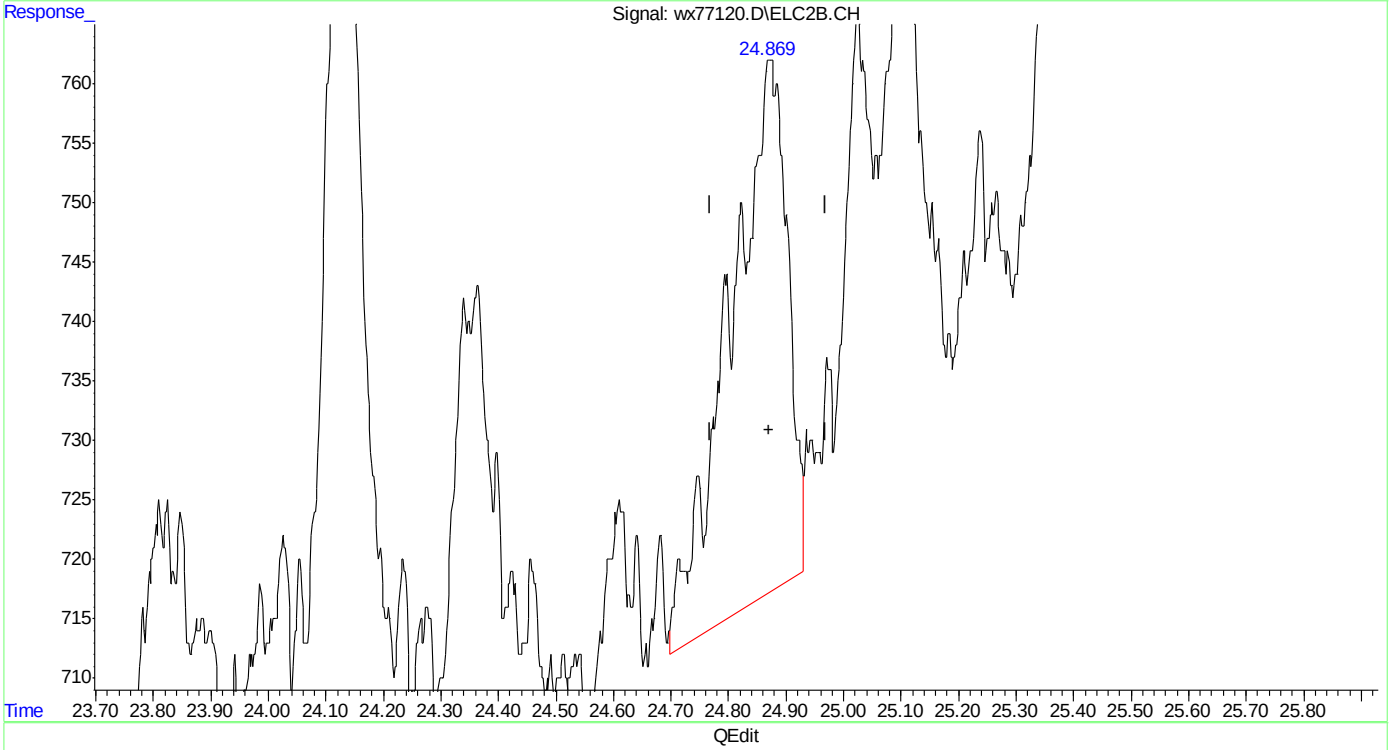
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:30:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.872min 0.249 ppb
response 3155

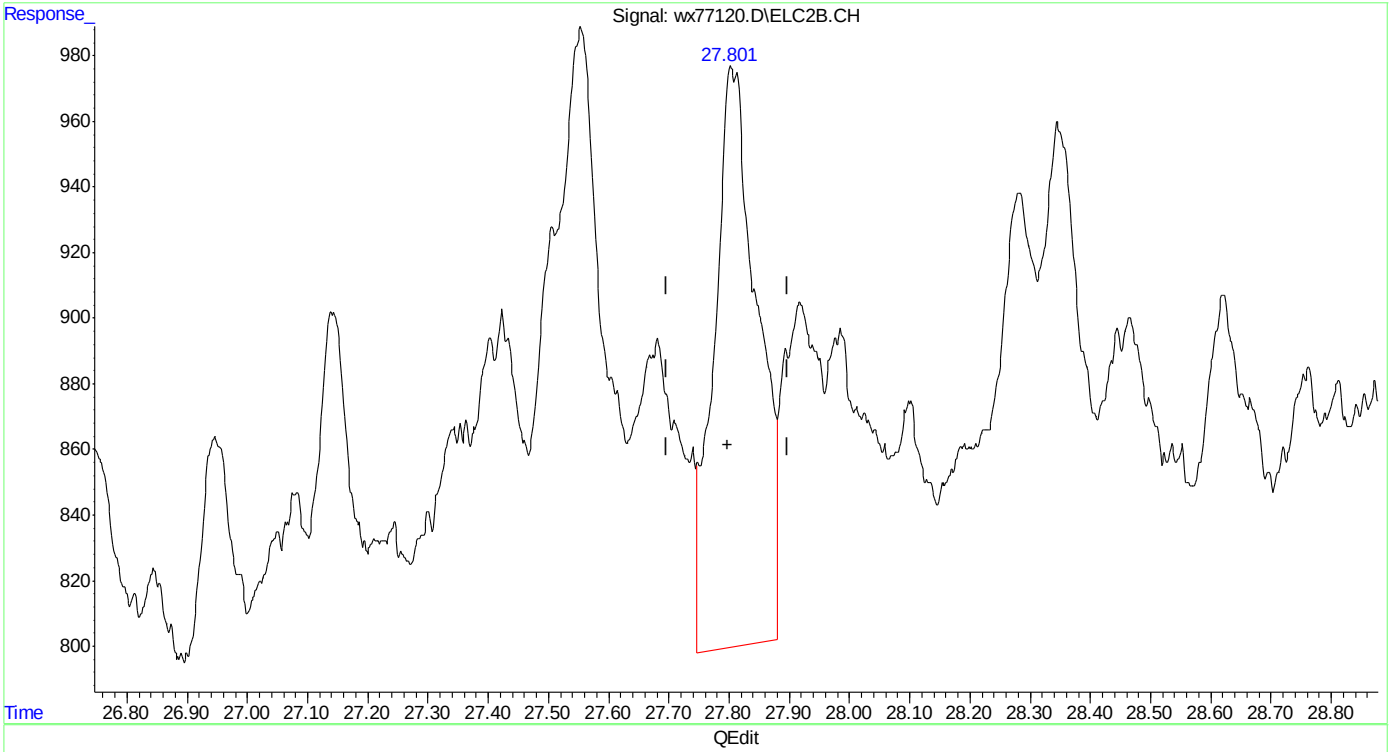
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:30:51 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.806min 0.998 ppb
response 8888

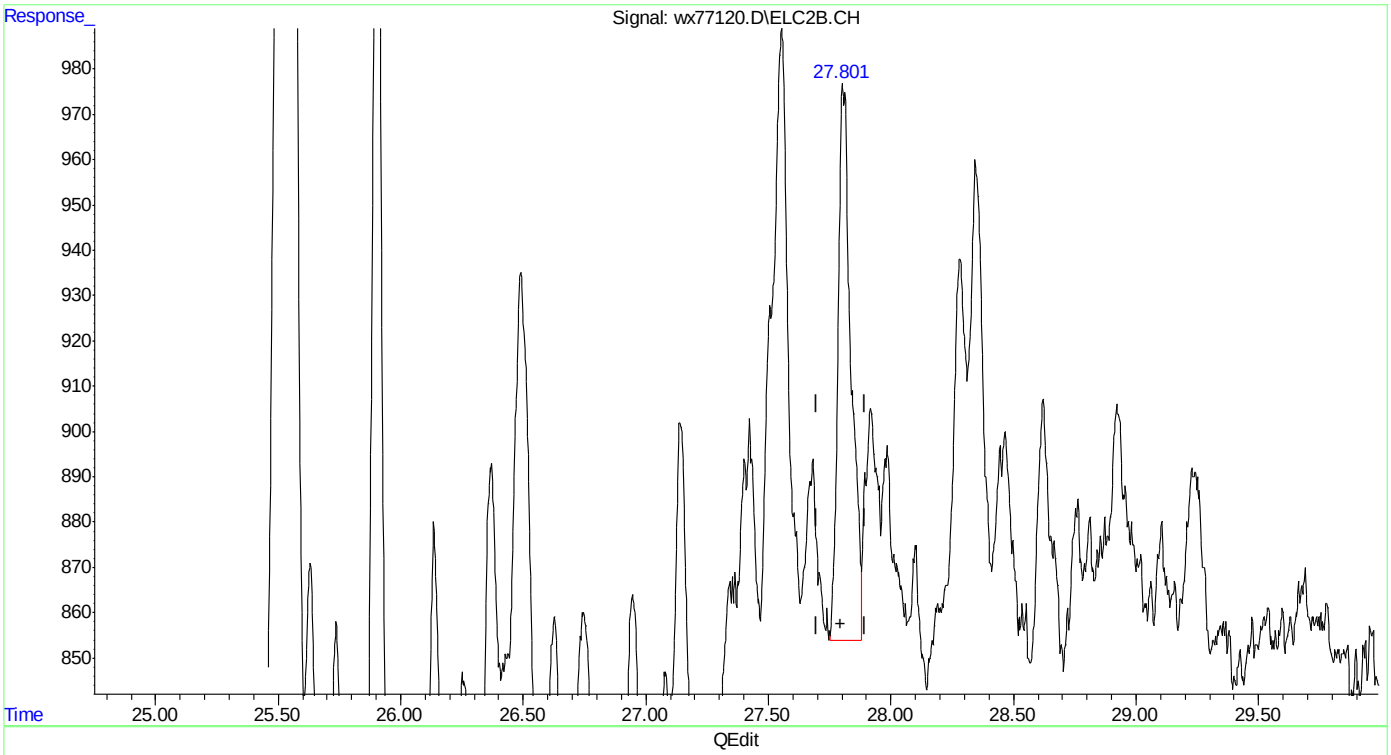
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:30:56 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77120.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 11:31 pm
Operator : tonyf
Sample : mc46340-5,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:05 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.801min 0.511 ppb m
response 4548

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:31:13 2016

SGS ACCUTEST MC46340

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:32:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.757	1325803	46.915 ppb
Spiked Amount 50.000		Recovery =	93.83%
6) s 2,3,4-trifluorotoluene	19.895	1079358	47.102 ppb
Spiked Amount 50.000		Recovery =	94.20%
16) s fluorobenzene #2	14.756	414844	45.500 ppb
Spiked Amount 50.000		Recovery =	91.00%
18) s 2,3,4-trifluorotoluen...	19.894	240455	44.026 ppb
Spiked Amount 50.000		Recovery =	88.05%
Target Compounds			
1) h rt5.5-7	6.100	21926	0.927 ppb
2) h rt7/10	8.370	61915	2.617 ppb
3) h rt10/13	13.510	236448	9.992 ppb
8) h rt20/25	21.600	154738	4.317 ppb
14) mtbe #2	9.150	9134	2.094 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	102909	8.141 ppb

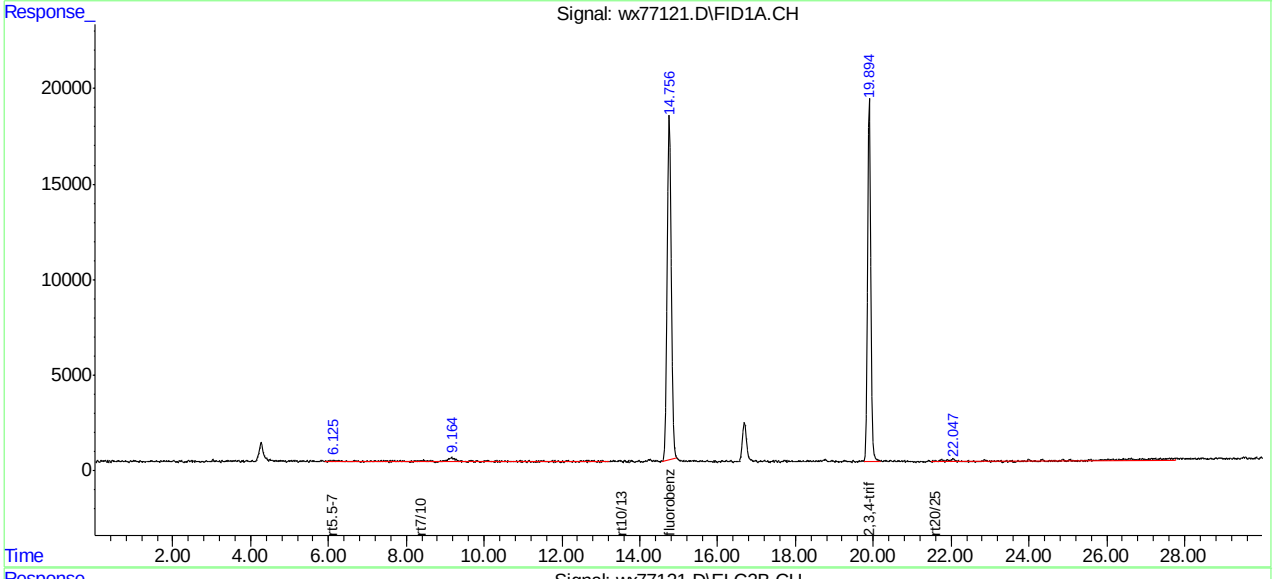
(f)=RT Delta > 1/2 Window (m)=manual int.

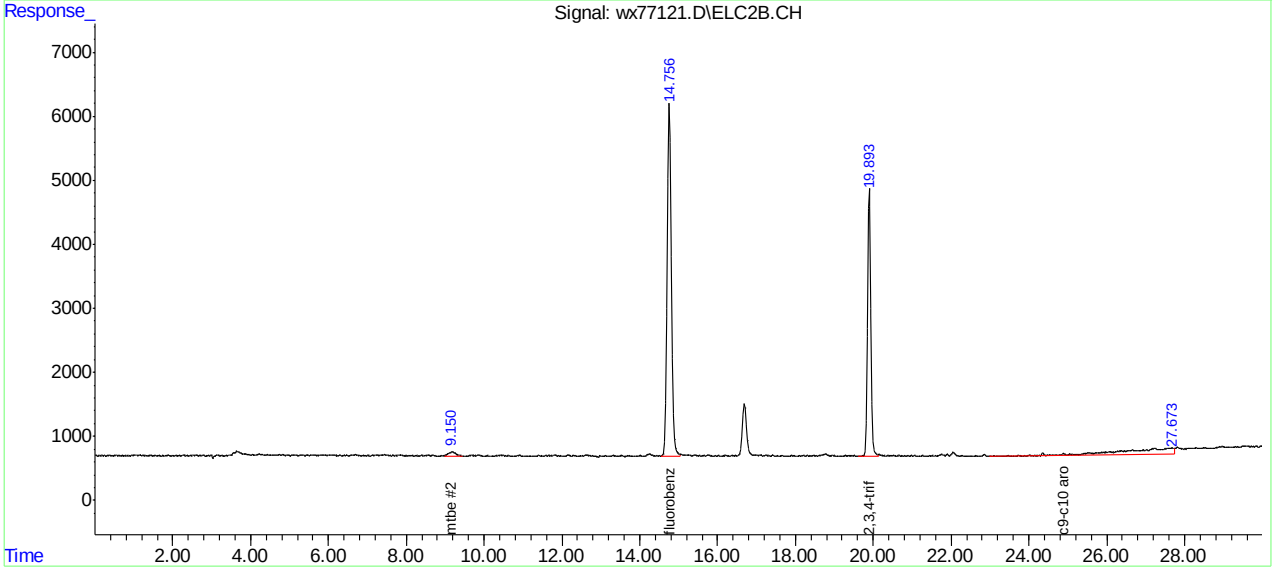
Quantitation Report (QT Reviewed)

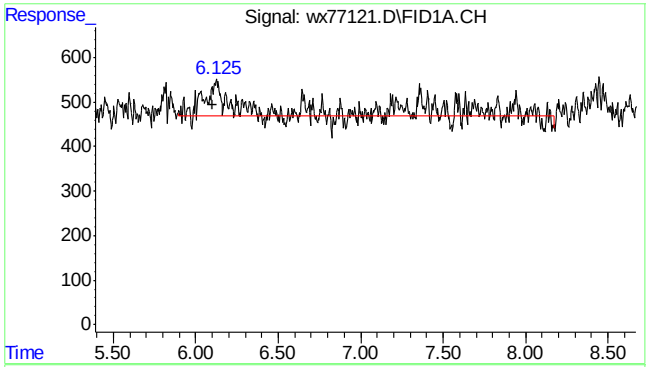
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:32:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

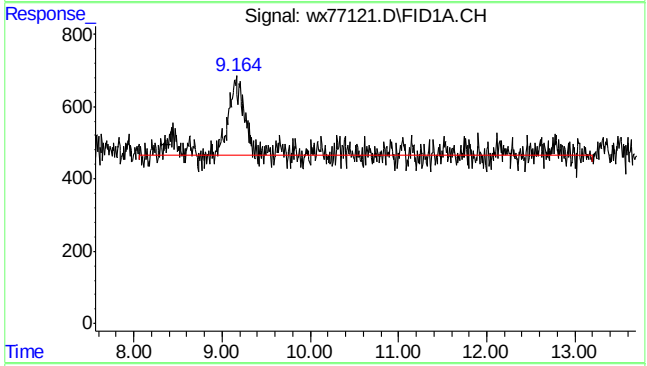






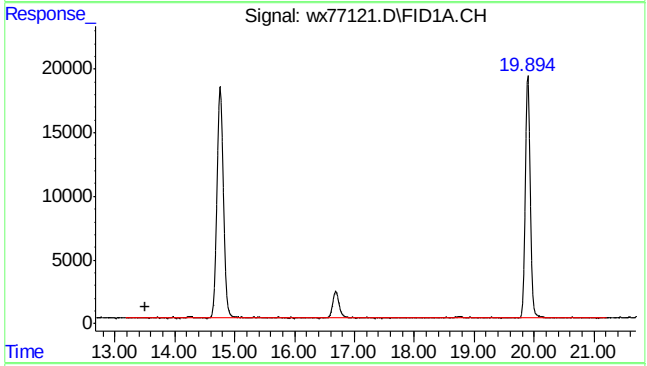
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 21926
Conc: 0.93 ppb m



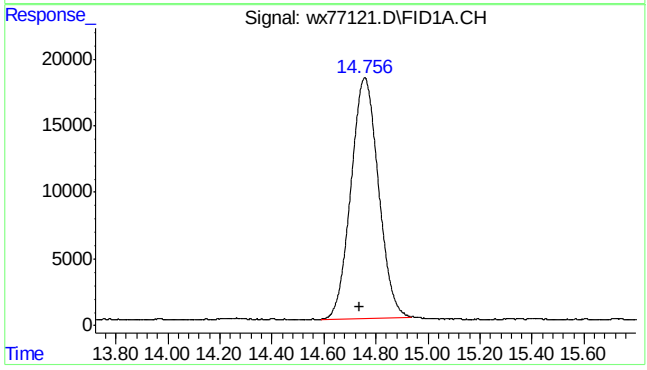
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 61915
Conc: 2.62 ppb m



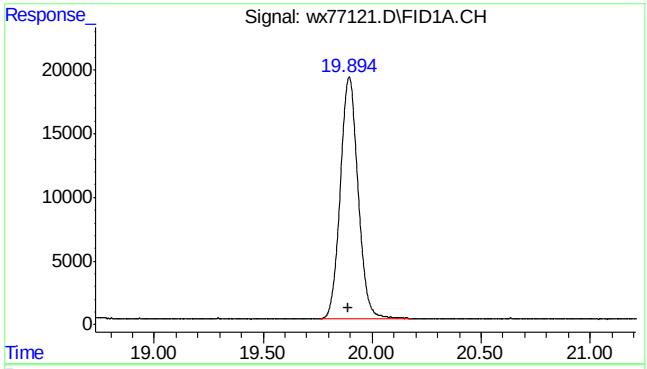
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 236448
Conc: 9.99 ppb m



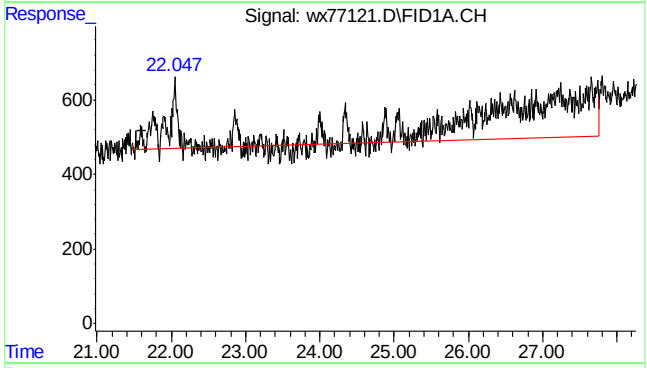
#4 fluorobenzene

R.T.: 14.757 min
Delta R.T.: 0.019 min
Response: 1325803
Conc: 46.92 ppb



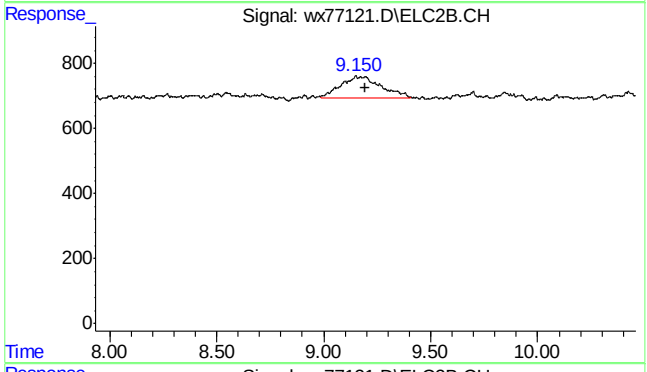
#6 2,3,4-trifluorotoluene

R.T.: 19.895 min
Delta R.T.: 0.005 min
Response: 1079358
Conc: 47.10 ppb



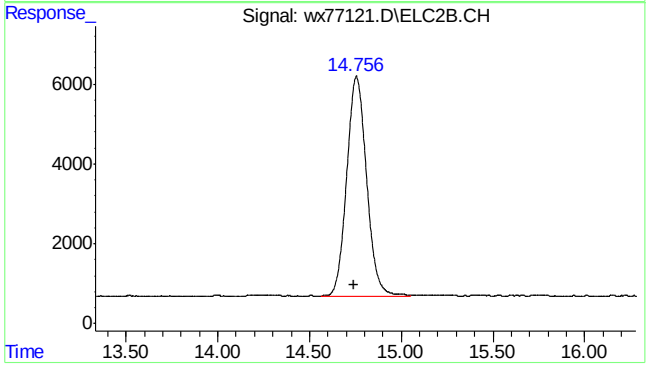
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 154738
Conc: 4.32 ppb m



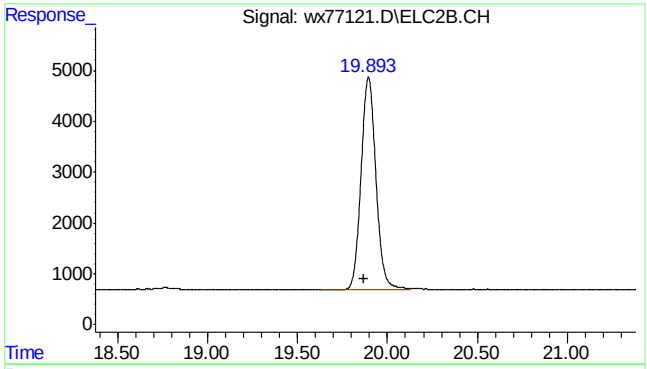
#14 mtbe #2

R.T.: 9.150 min
Delta R.T.: -0.042 min
Response: 9134
Conc: 2.09 ppb m



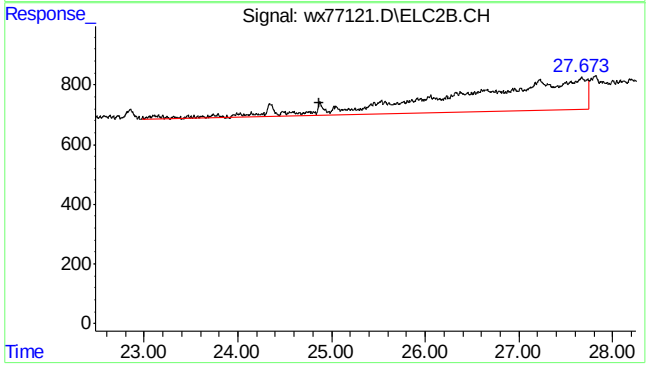
#16 fluorobenzene #2

R.T.: 14.756 min
Delta R.T.: 0.012 min
Response: 414844
Conc: 45.50 ppb



#18 2,3,4-trifluorotoluene #2

```
      R.T.:   19.894 min
Delta R.T.:    0.025 min
  Response:    240455
      Conc:  44.03 ppb
```



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

```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:    102909
      Conc:   8.14 ppb m
```

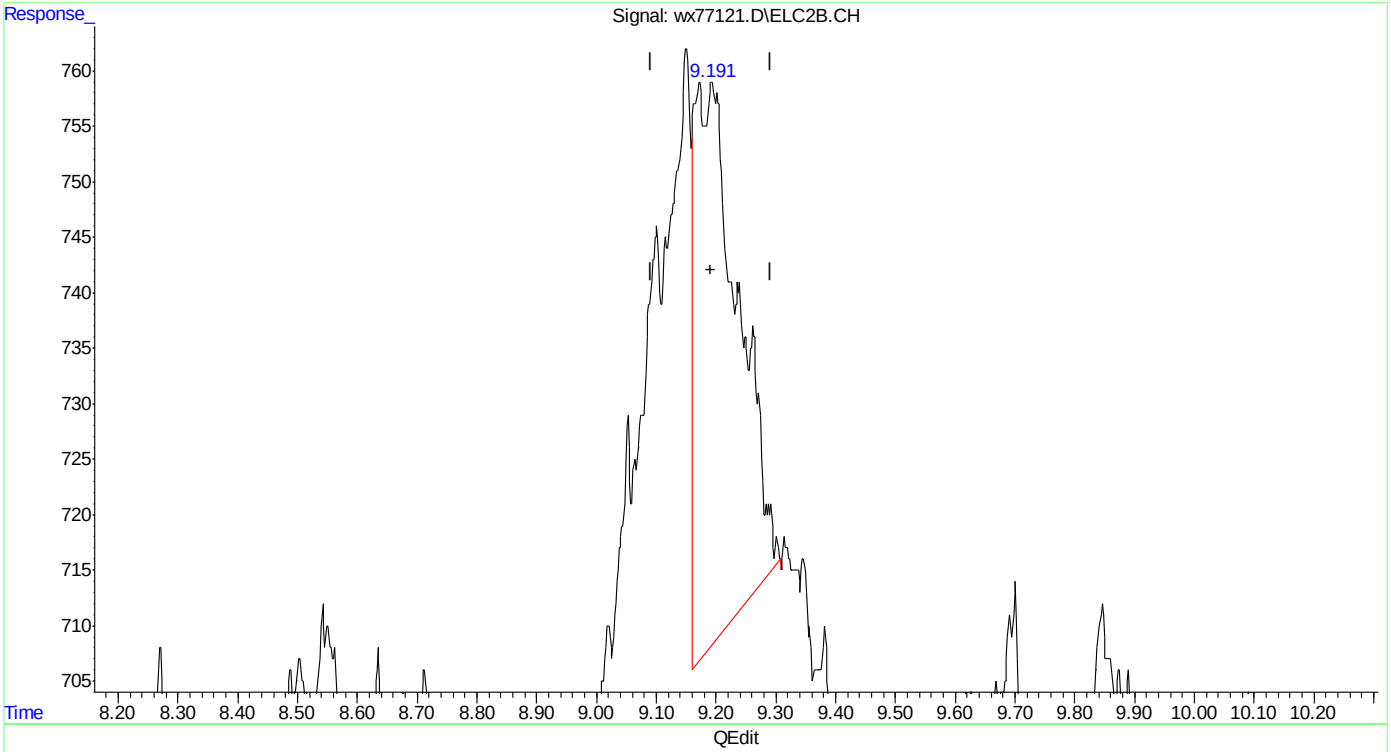

SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.172min 0.600 ppb
response 2619

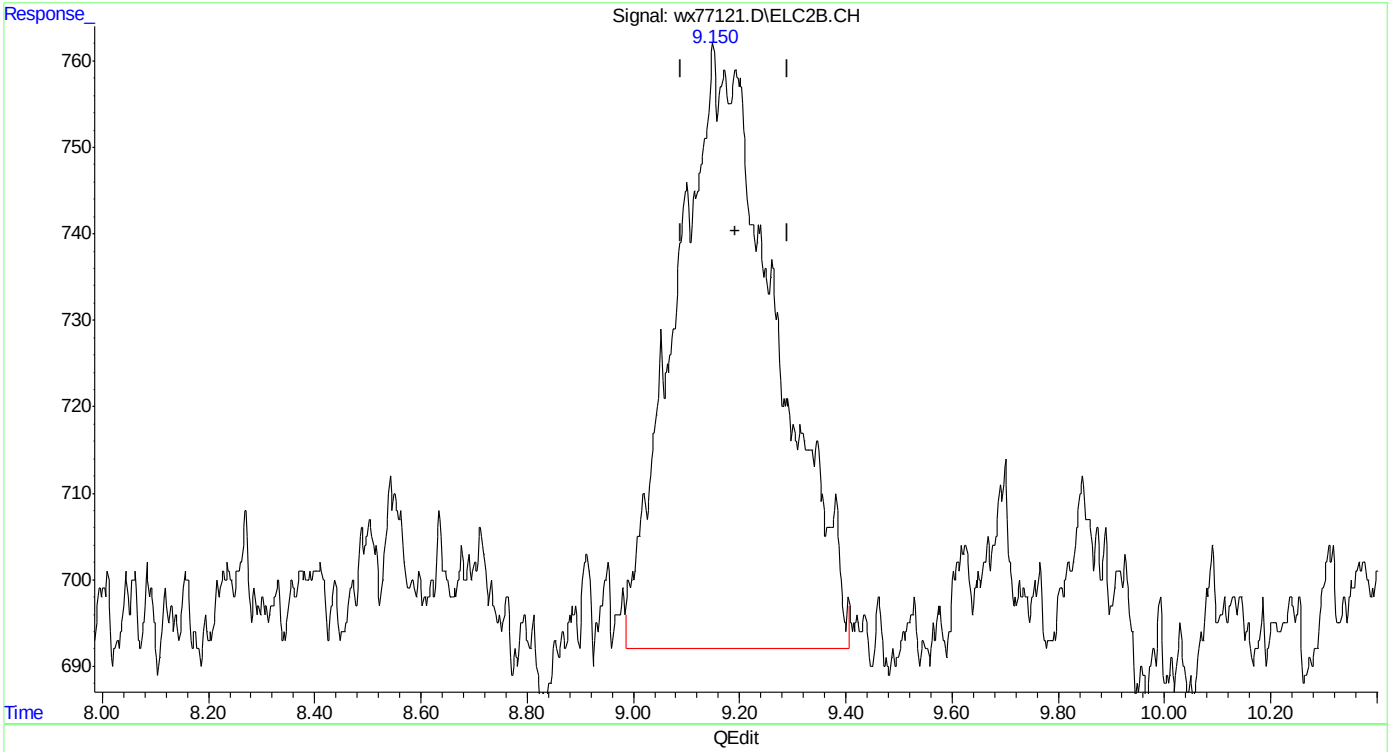
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:31:56 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.150min 2.094 ppb m
response 9134

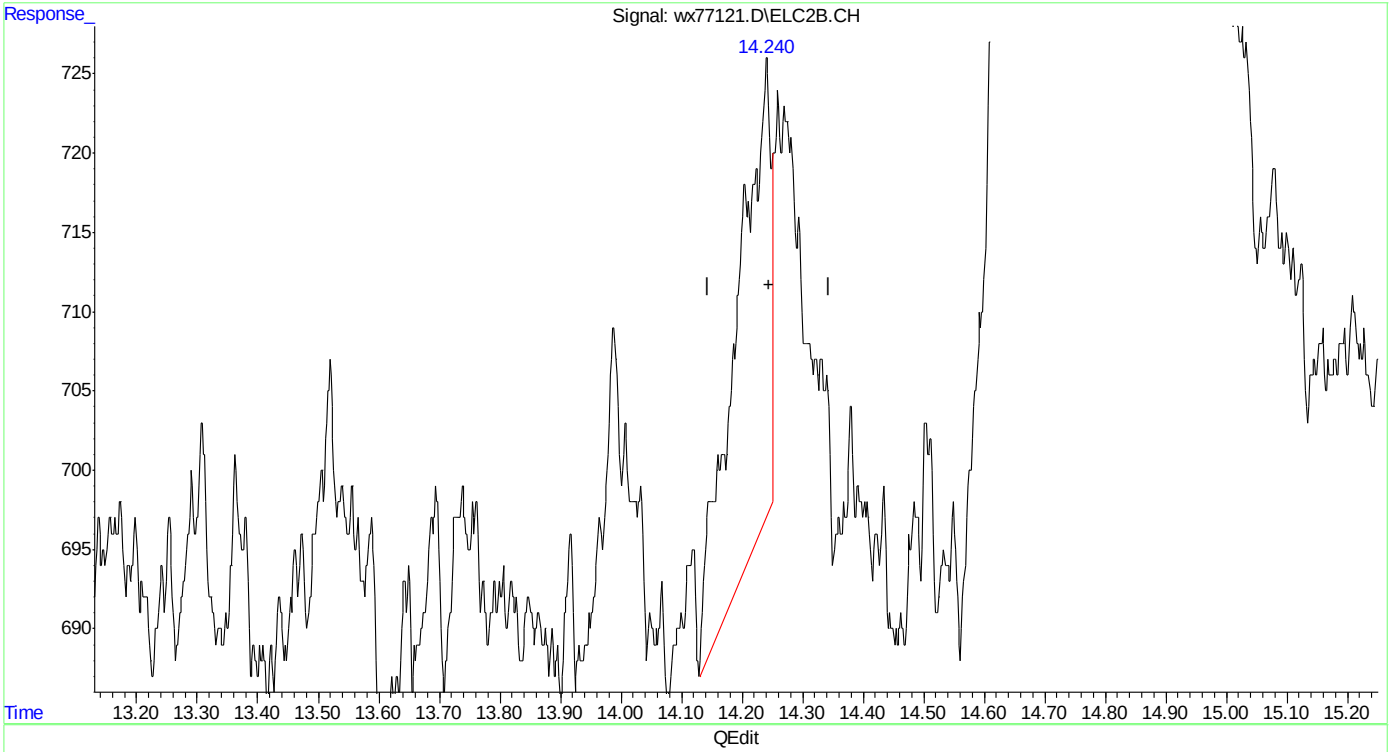
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.241min 0.079 ppb
response 1126

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:19 2016

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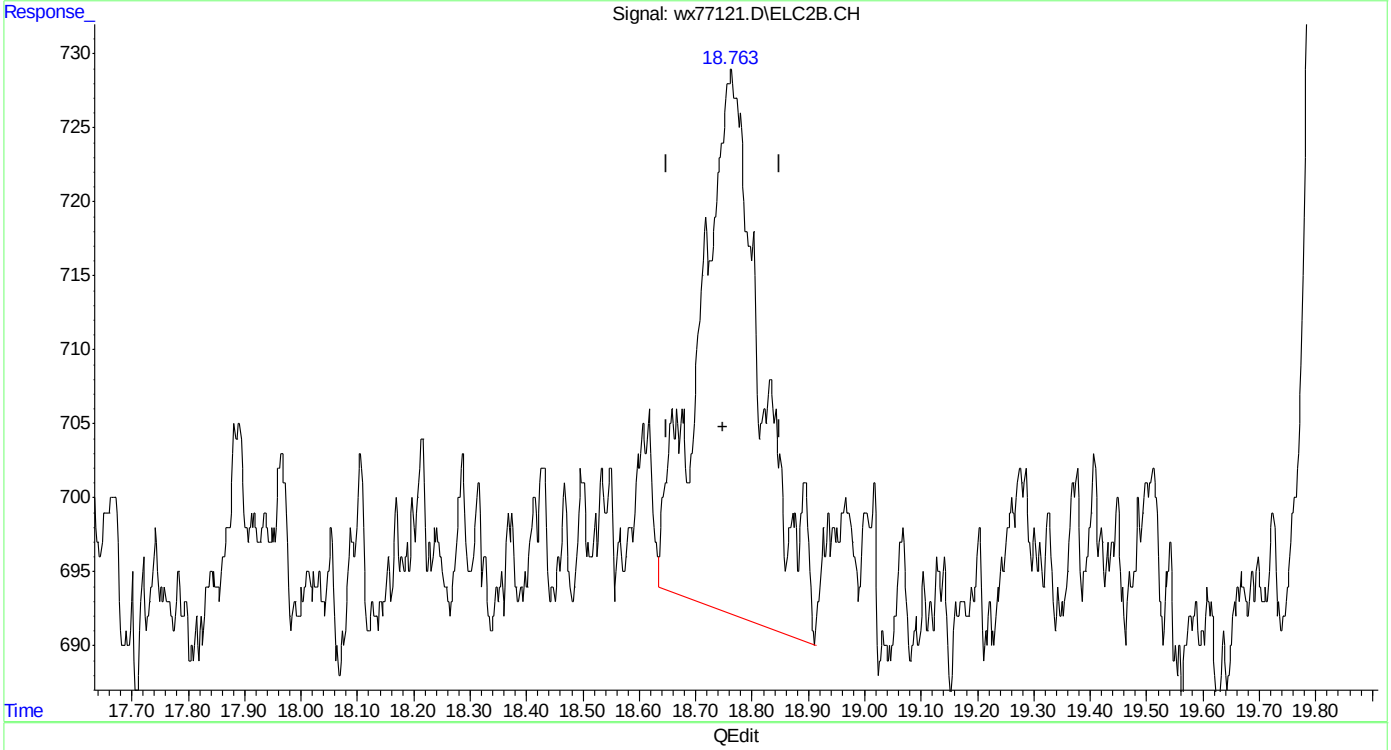
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.764min 0.214 ppb
response 2756

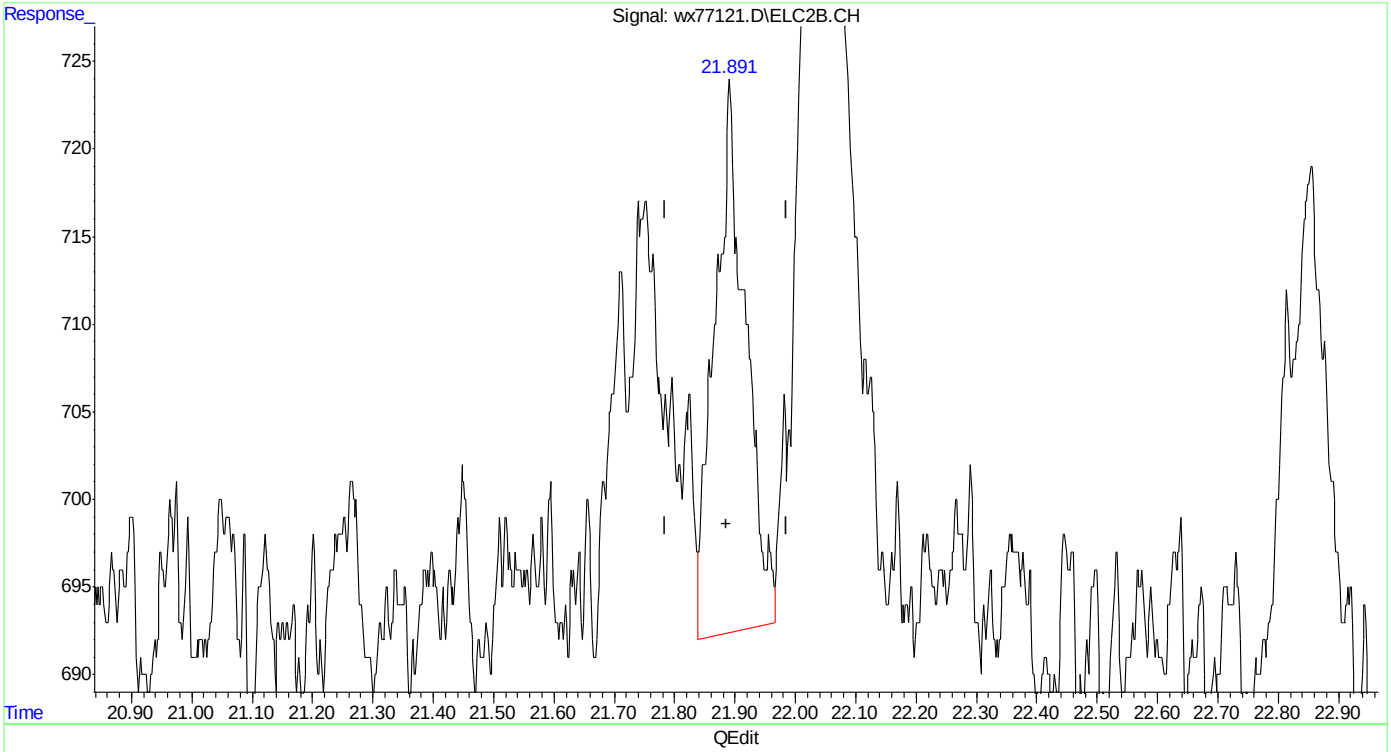
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.892min 0.100 ppb
response 1146

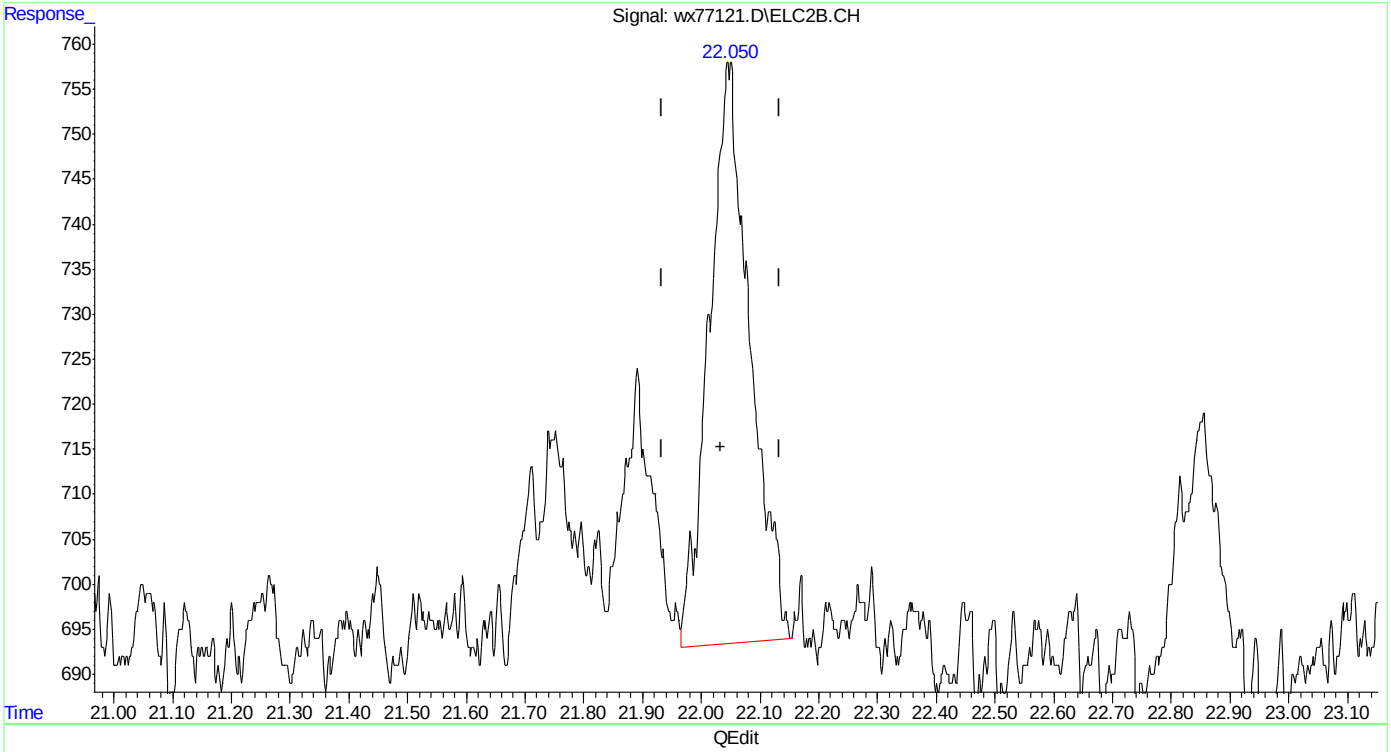
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.047min 0.227 ppb
response 3137

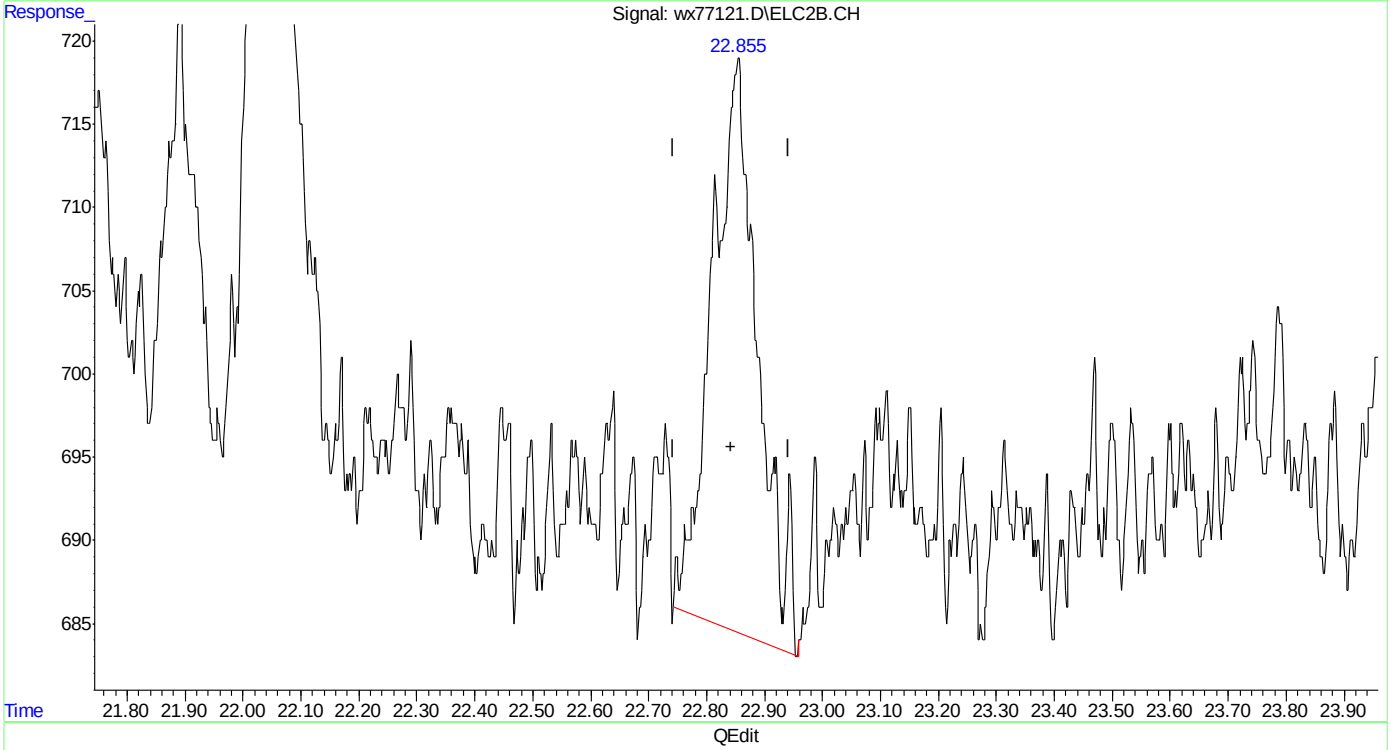
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.853min 0.161 ppb
response 1866

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:41 2016

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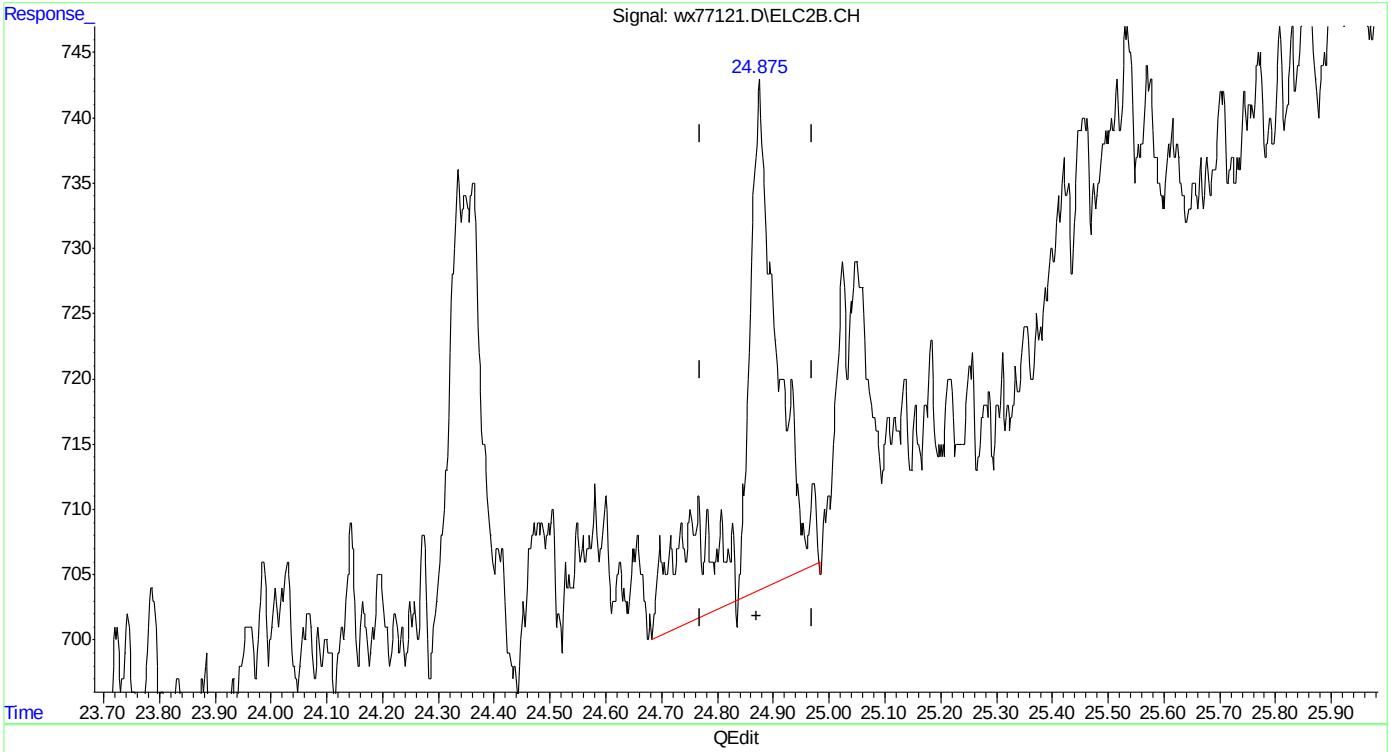
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.876min 0.141 ppb
response 1786

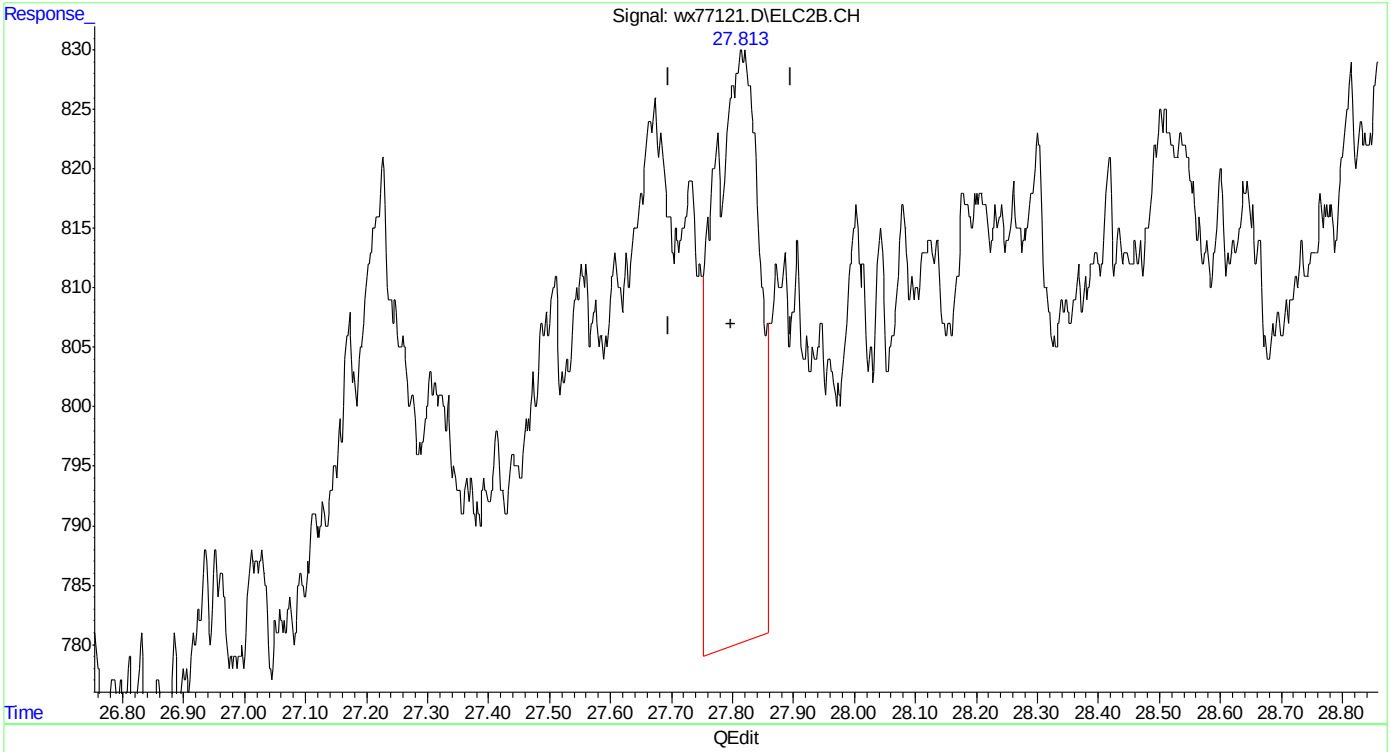
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:47 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77121.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:09 am
Operator : tonyf
Sample : mc46340-6,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.817min 0.291 ppb
response 2588

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:32:51 2016

SGS ACCUTEST MC46340

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:34:25 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.755	1346407	47.644	ppb	
Spiked Amount 50.000		Recovery =	95.29%		
6) s 2,3,4-trifluorotoluene	19.890	1068201	46.615	ppb	
Spiked Amount 50.000		Recovery =	93.23%		
16) s fluorobenzene #2	14.754	418734	45.927	ppb	
Spiked Amount 50.000		Recovery =	91.85%		
18) s 2,3,4-trifluorotoluen...	19.890	242413	44.384	ppb	
Spiked Amount 50.000		Recovery =	88.77%		
Target Compounds					
1) h rt5.5-7	6.100	25541	1.079	ppb	
2) h rt7/10	8.370	54561	2.306	ppb	
3) h rt10/13	13.510	318464	13.458	ppb	
8) h rt20/25	21.600	190820	5.324	ppb	
14) mtbe #2	9.155	6286	1.441	ppb	m
15) benzene #2	14.252	1841	0.130	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	111190	8.797	ppb	

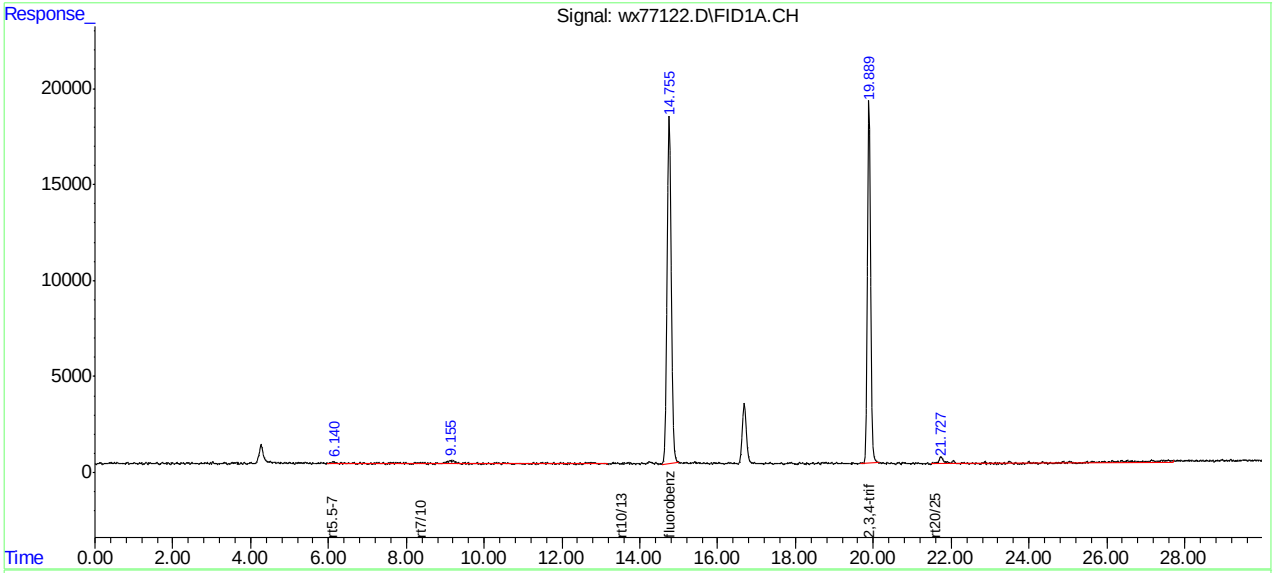
(f)=RT Delta > 1/2 Window (m)=manual int.

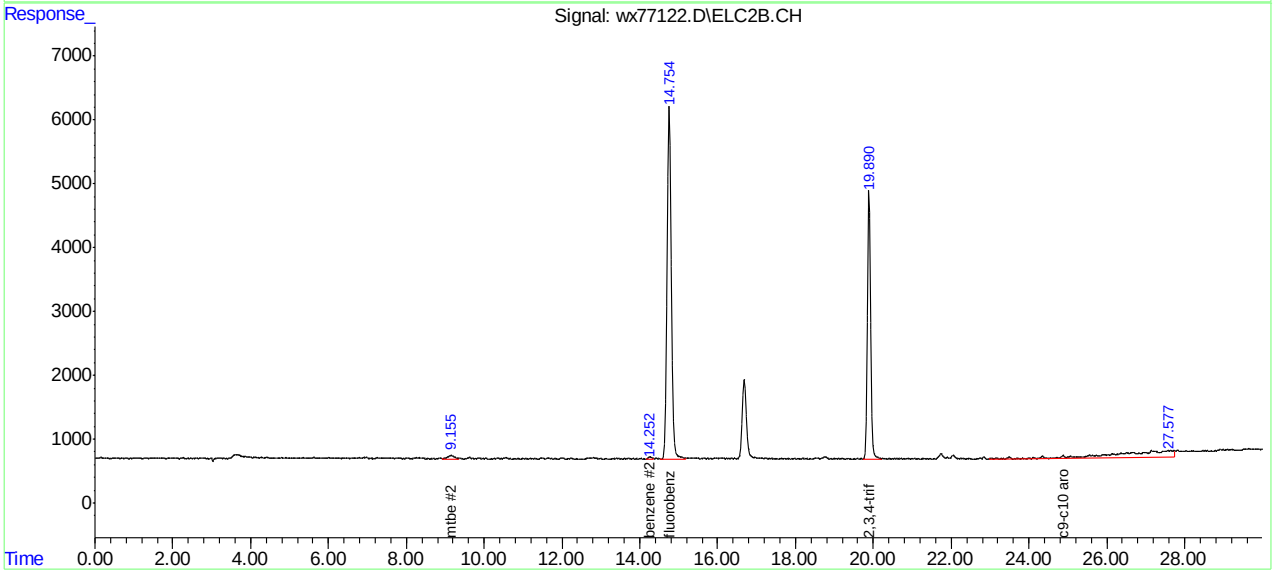
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

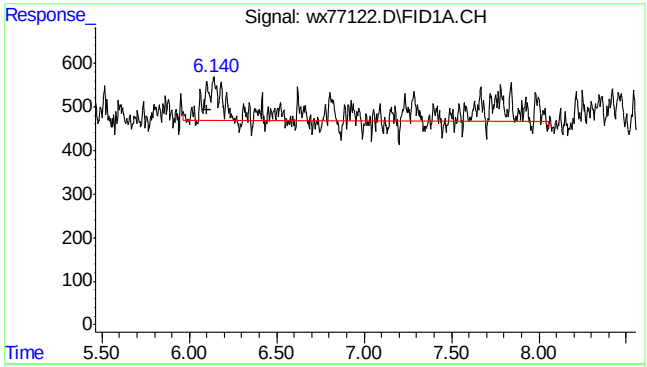
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:34:25 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



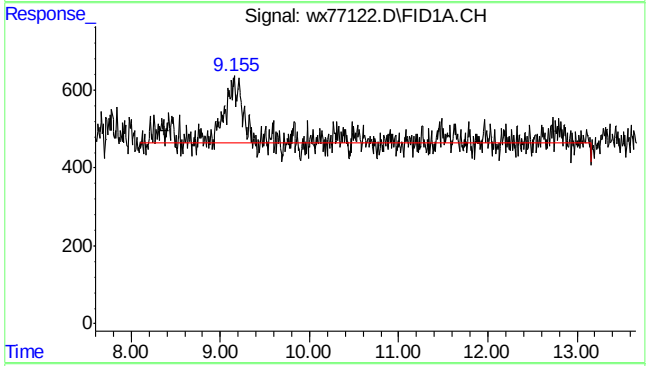


SGS ACCUTEST MC46340



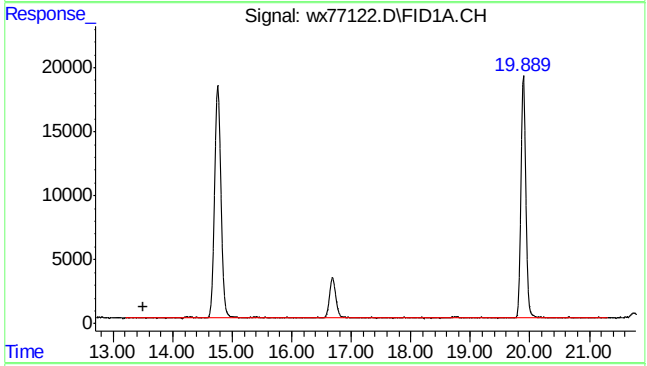
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 25541
Conc: 1.08 ppb m



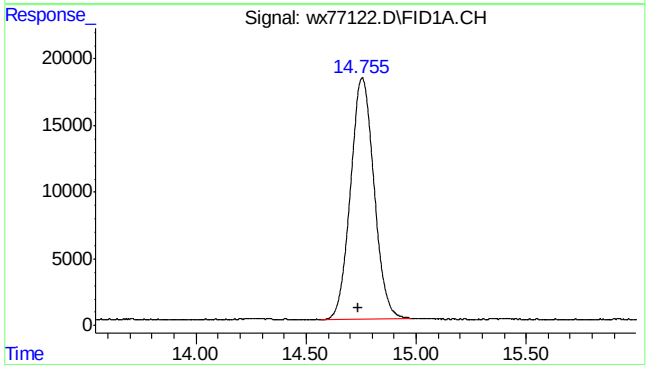
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 54561
Conc: 2.31 ppb m



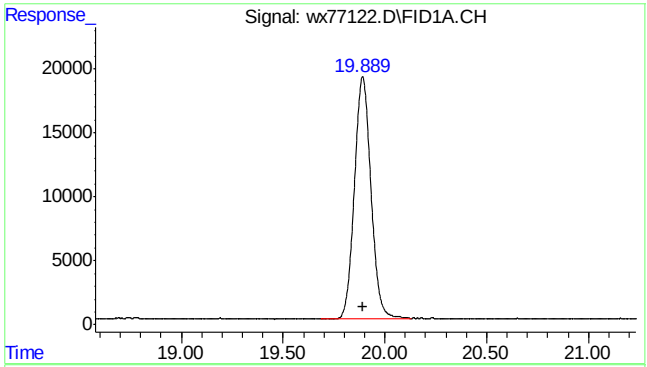
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 318464
Conc: 13.46 ppb m



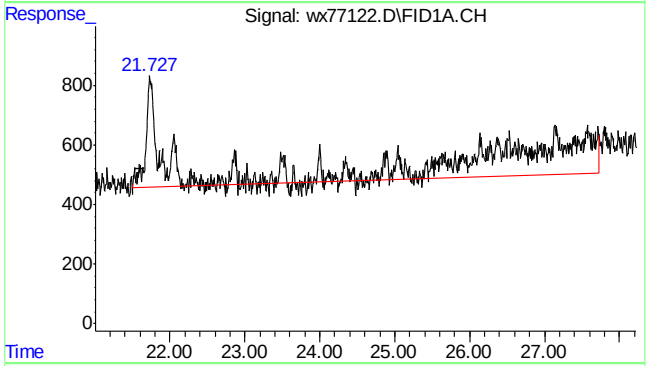
#4 fluorobenzene

R.T.: 14.755 min
Delta R.T.: 0.017 min
Response: 1346407
Conc: 47.64 ppb



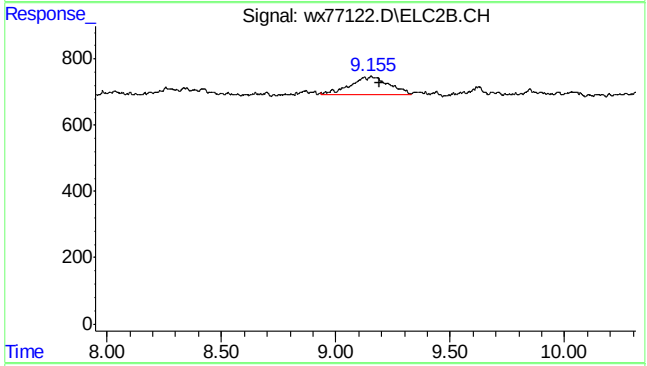
#6 2,3,4-trifluorotoluene

R.T.: 19.890 min
Delta R.T.: 0.000 min
Response: 1068201
Conc: 46.61 ppb



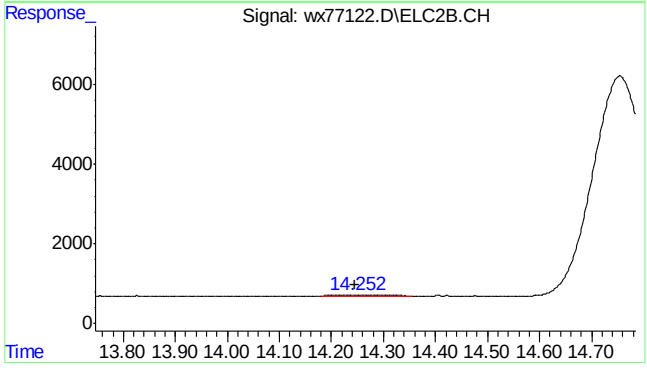
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 190820
Conc: 5.32 ppb m



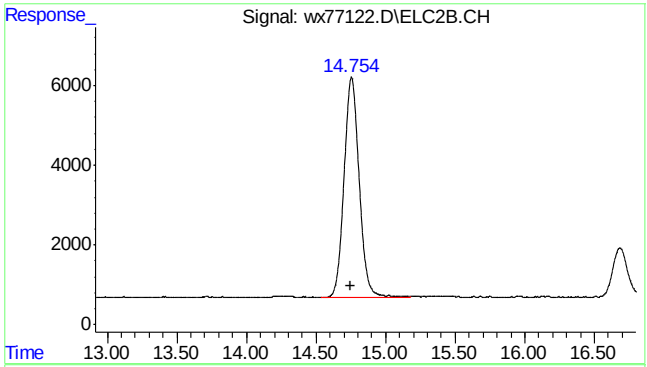
#14 mtbe #2

R.T.: 9.155 min
Delta R.T.: -0.037 min
Response: 6286
Conc: 1.44 ppb m



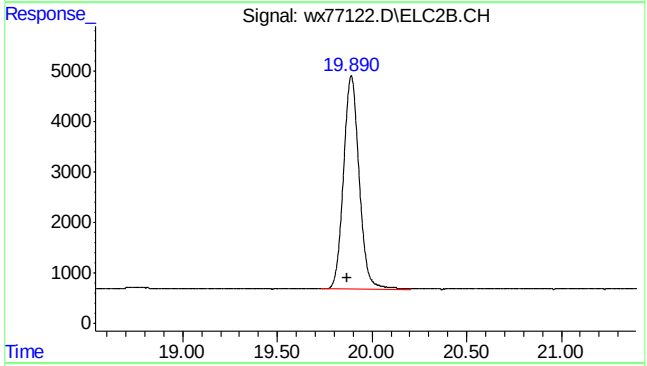
#15 benzene #2

R.T.: 14.252 min
Delta R.T.: 0.007 min
Response: 1841
Conc: 0.13 ppb m



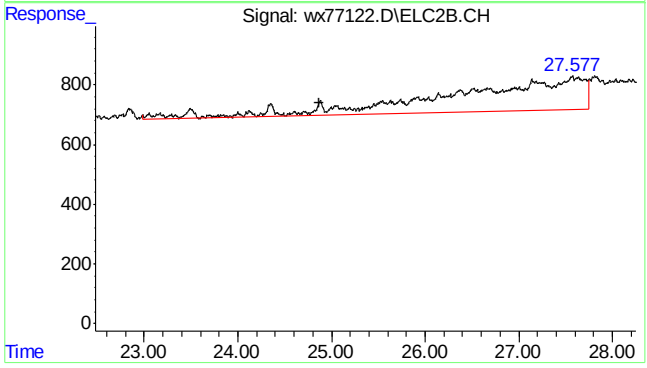
#16 fluorobenzene #2

```
      R.T.:   14.754 min
Delta R.T.:    0.010 min
  Response:    418734
      Conc:  45.93 ppb
```



#18 2,3,4-trifluorotoluene #2

```
      R.T.:   19.890 min
Delta R.T.:    0.021 min
  Response:    242413
      Conc:  44.38 ppb
```



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

```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:    111190
      Conc:   8.80 ppb m
```

7.1.7

7

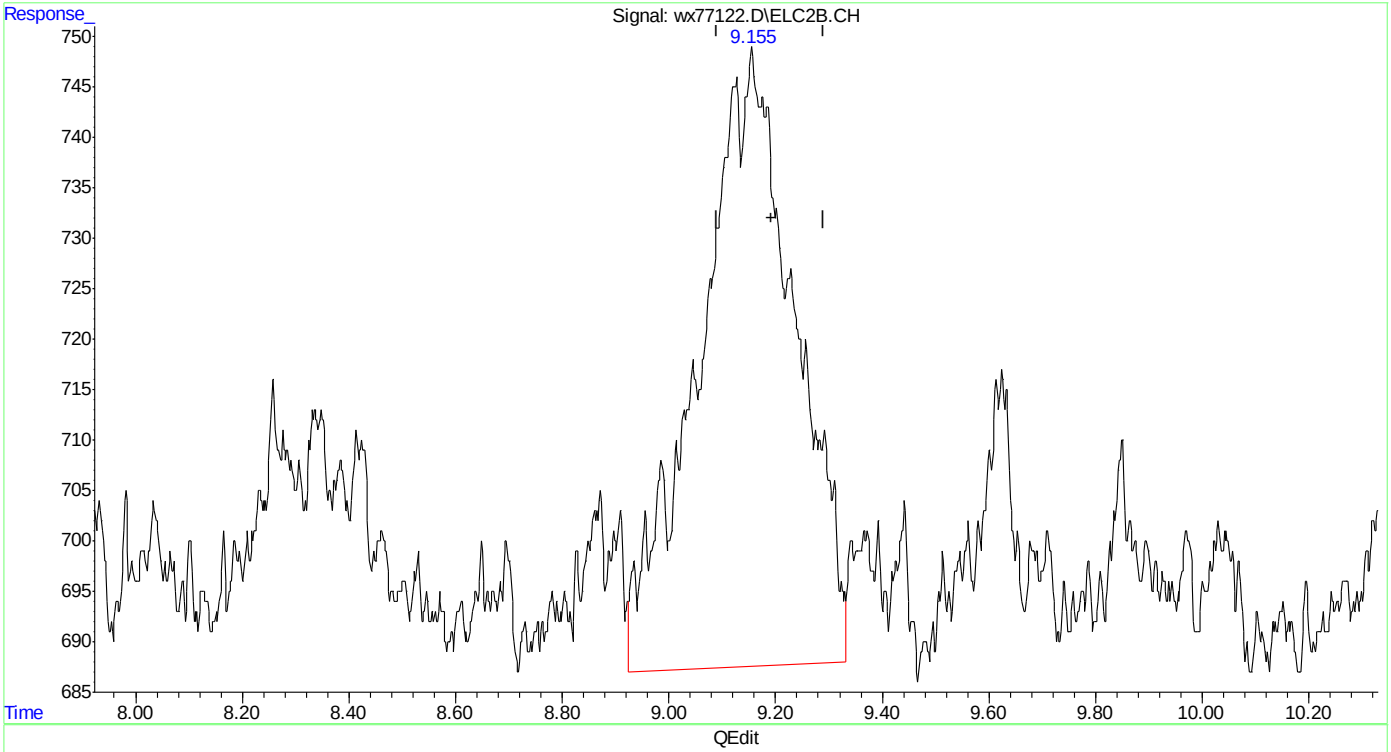
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.156min 1.749 ppb
response 7631

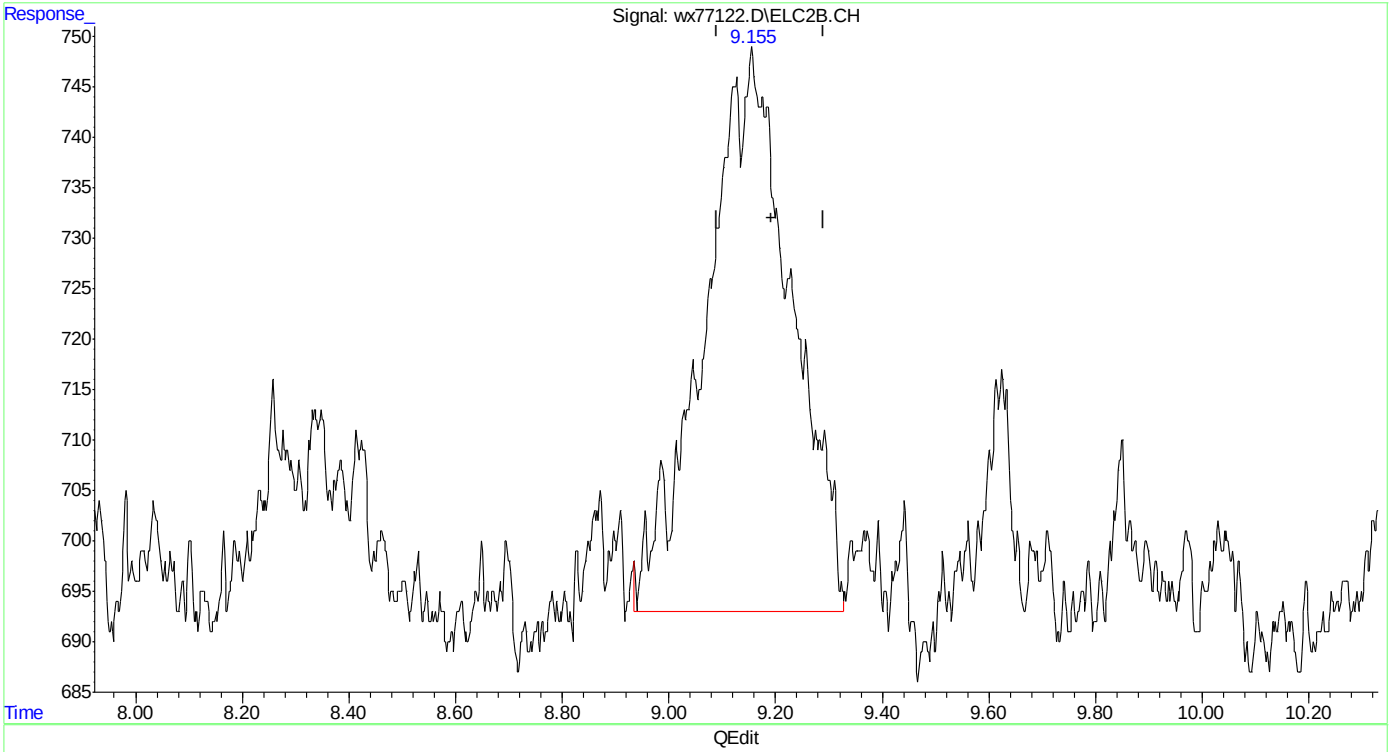
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:33:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.155min 1.441 ppb m
response 6286

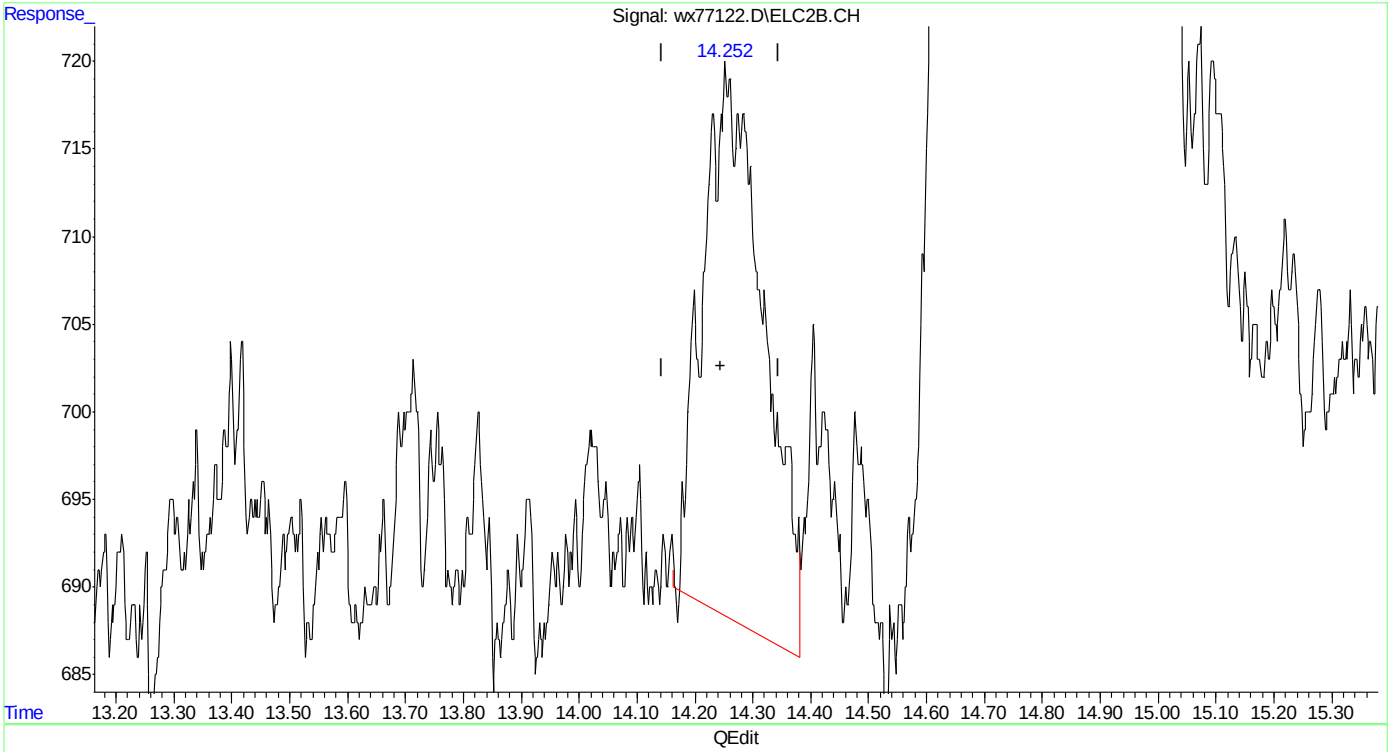
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:33:38 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.259min 0.164 ppb
response 2324

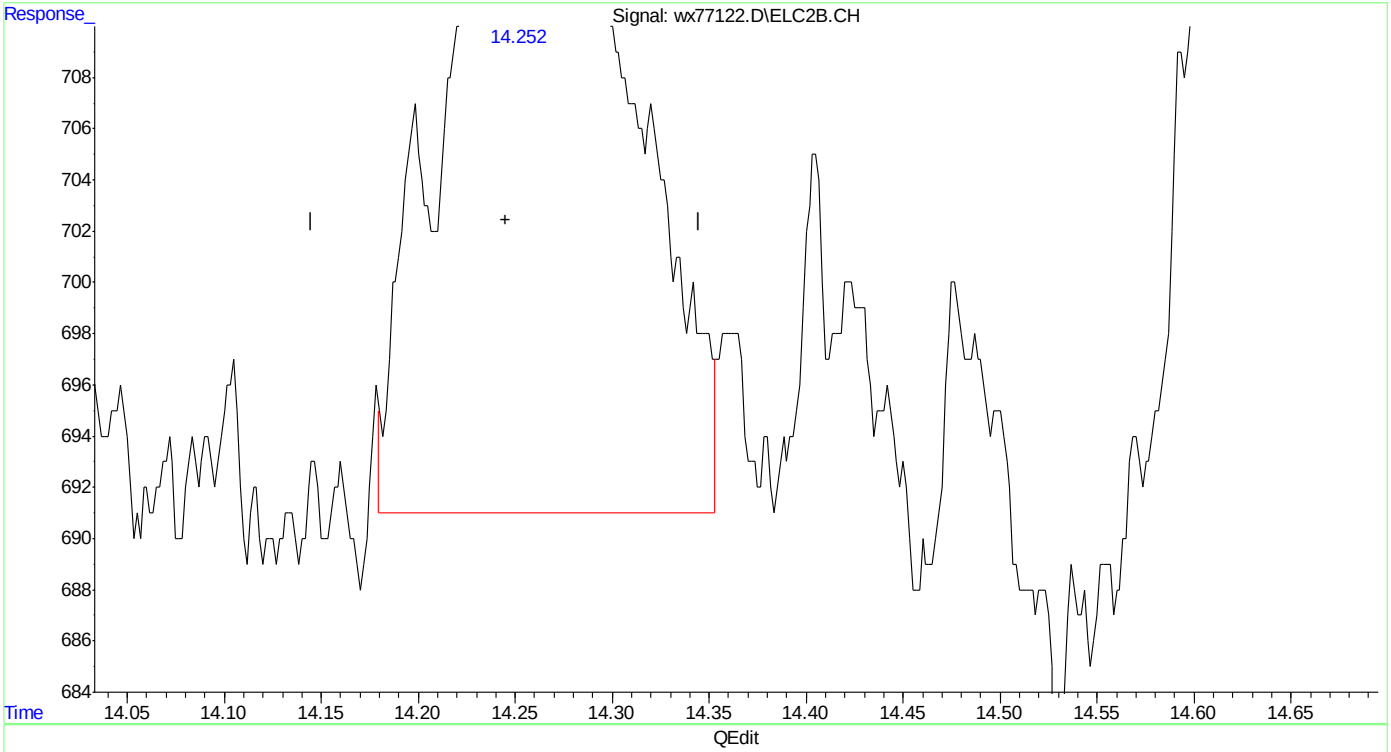
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:33:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.252min 0.130 ppb m
response 1841

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:33:54 2016

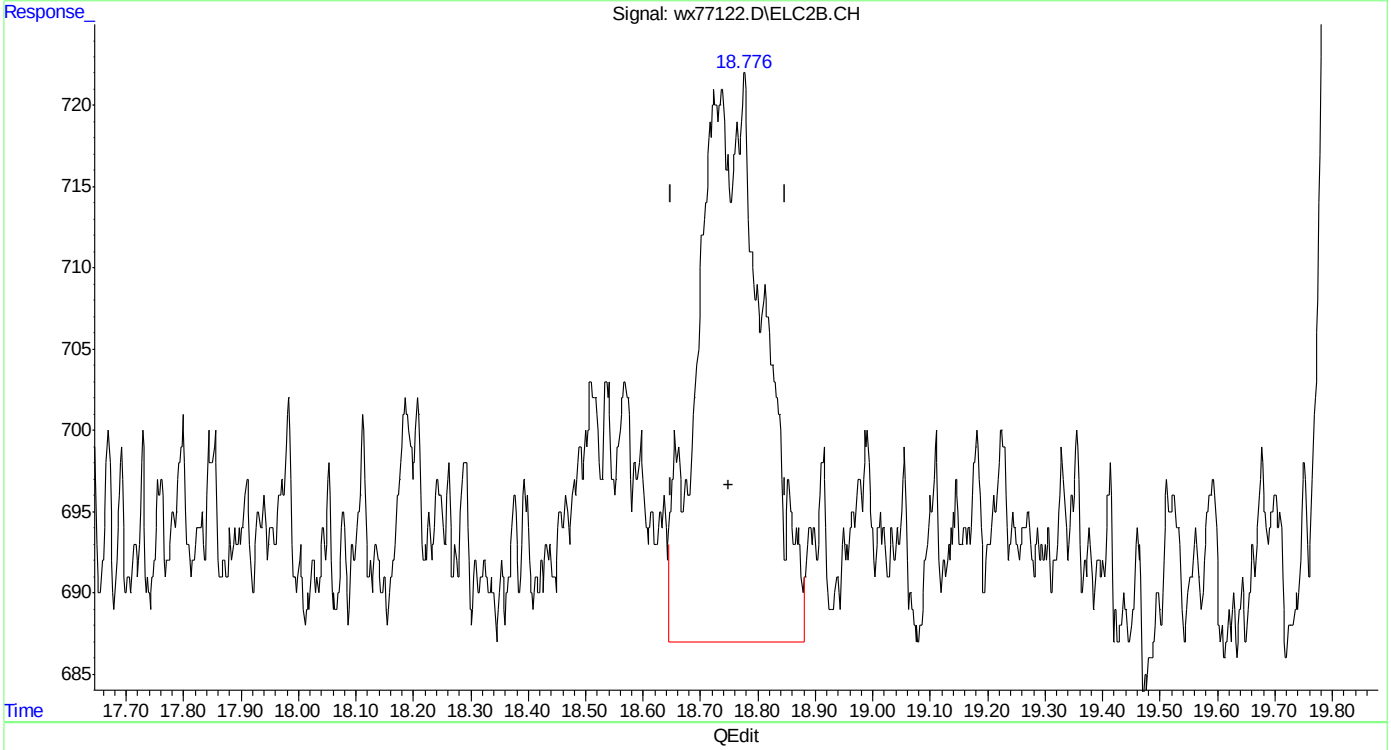
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.731min 0.209 ppb
response 2689

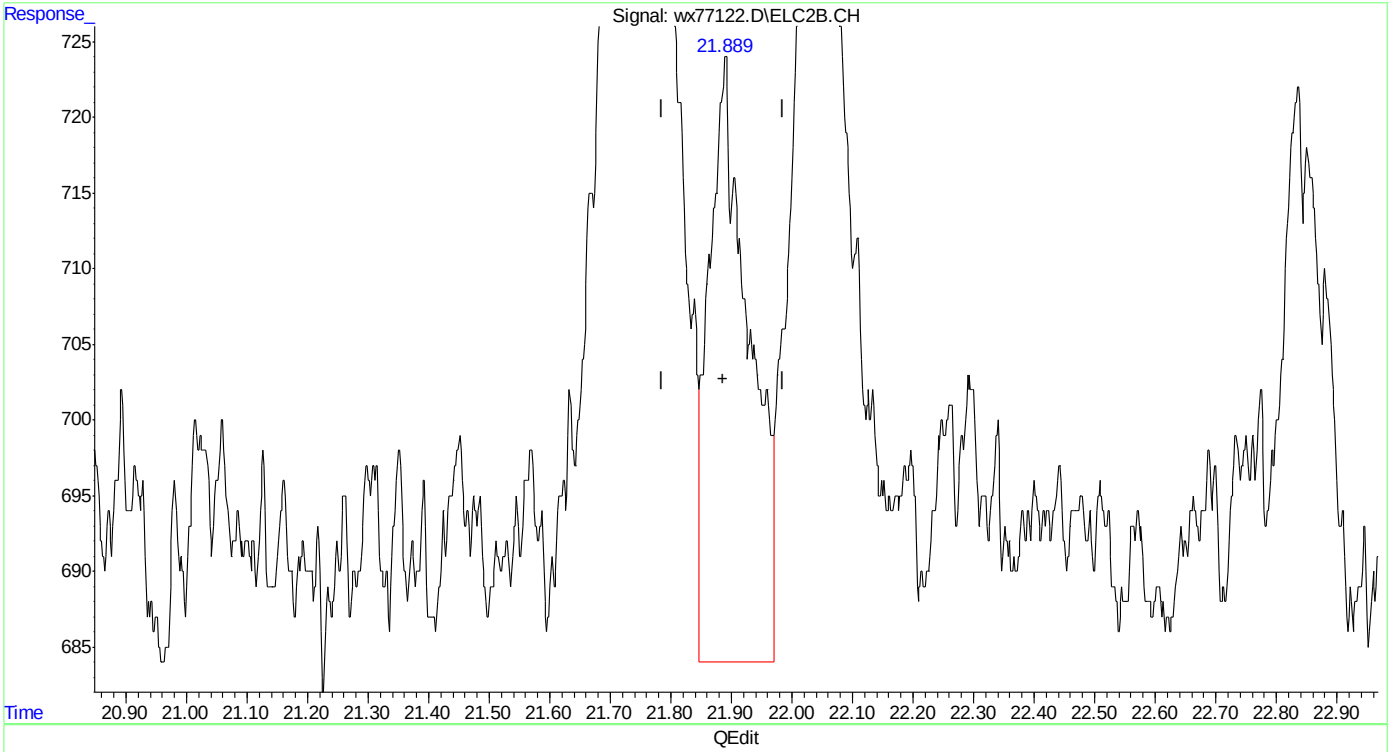
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:33:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.889min 0.160 ppb
response 1830

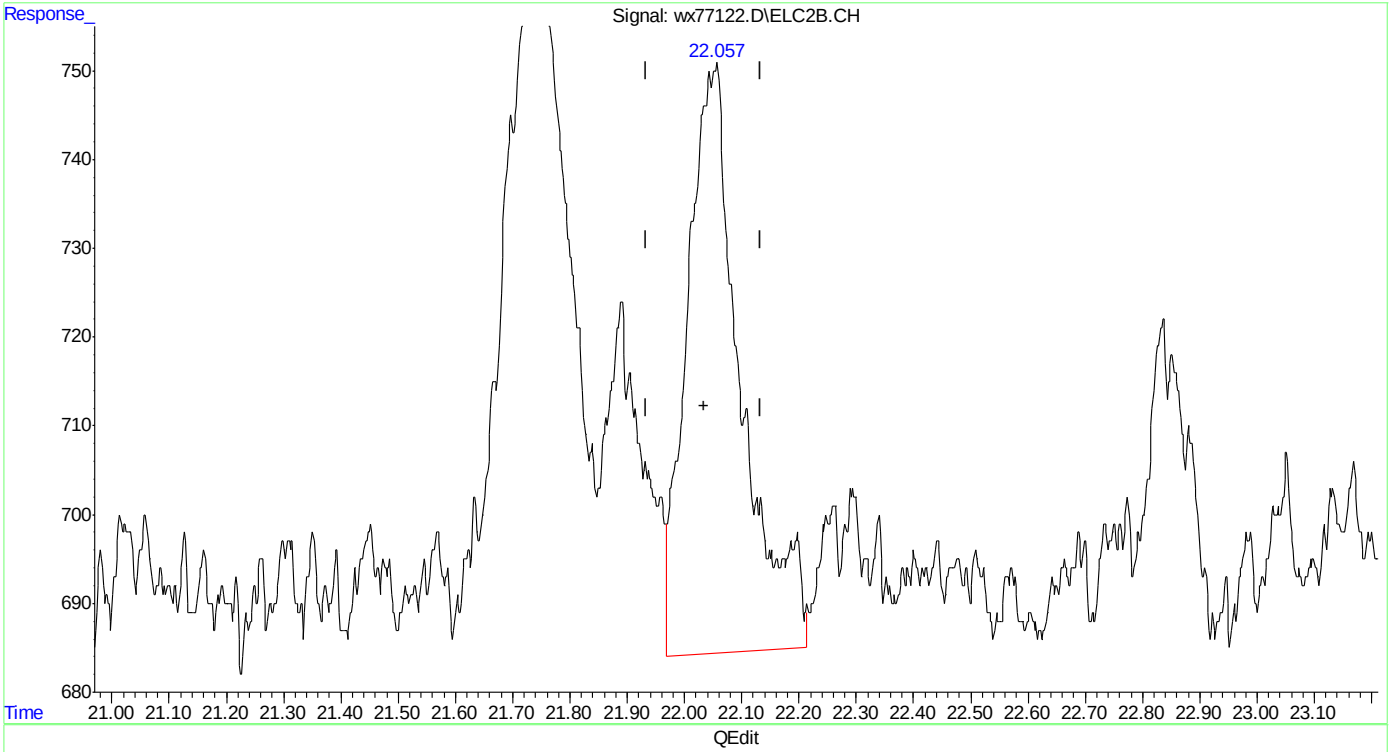
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:34:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.048min 0.313 ppb
response 4329

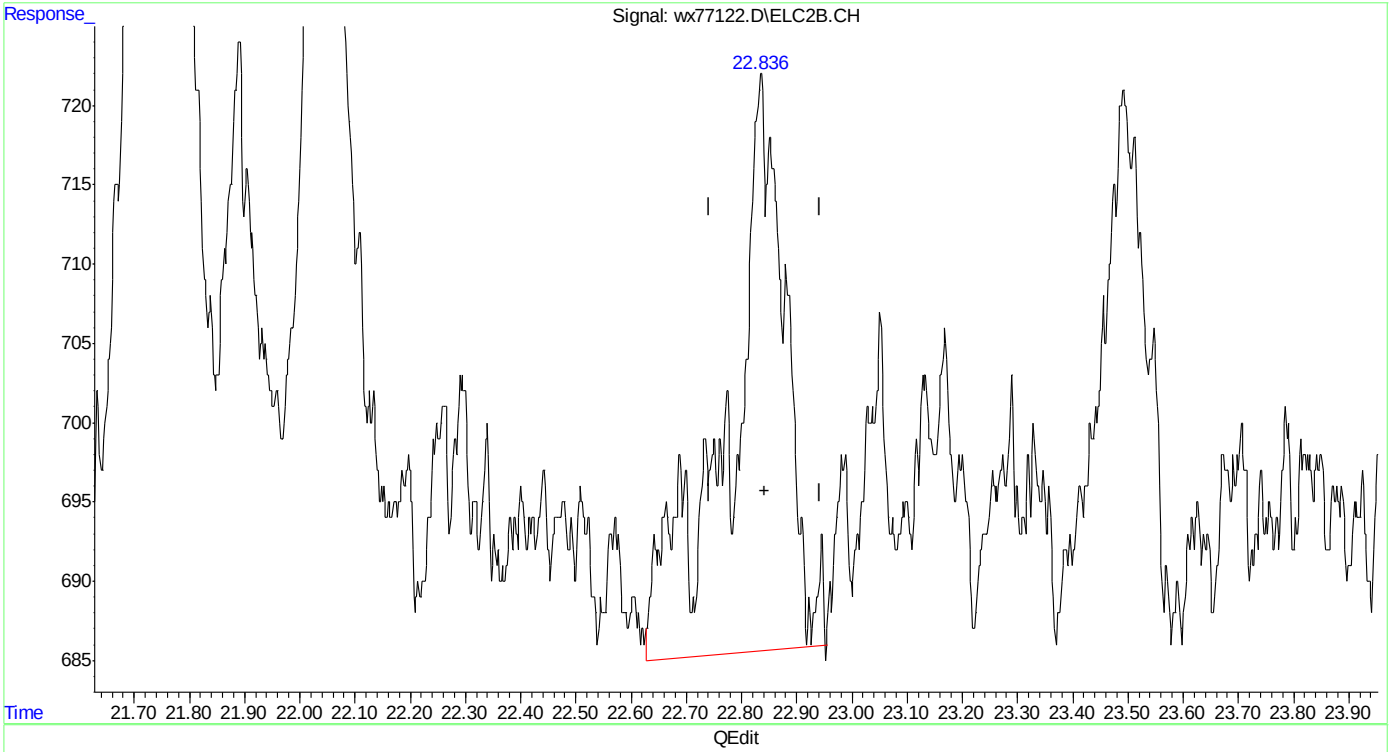
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:34:09 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.837min 0.218 ppb
response 2533

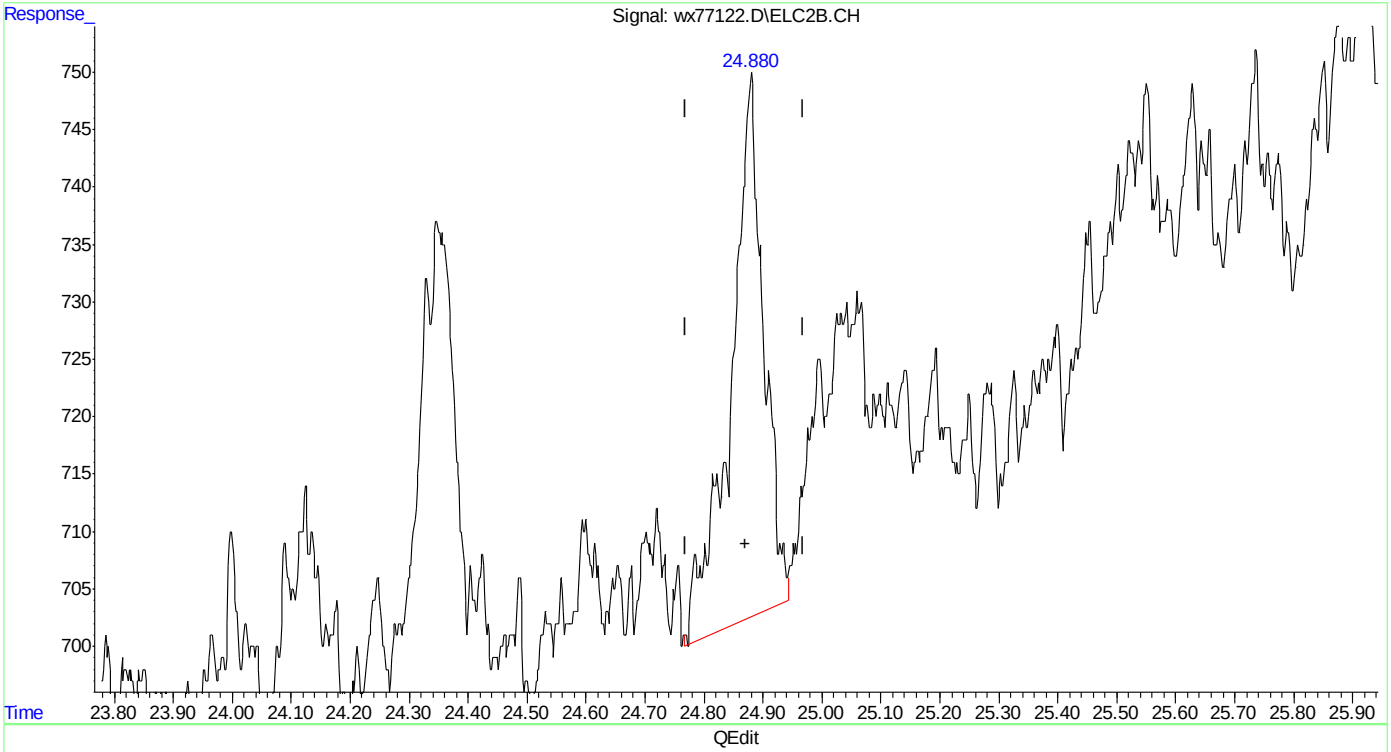
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:34:14 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.878min 0.142 ppb
response 1801

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:34:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77122.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 12:47 am
Operator : tonyf
Sample : mc46340-7,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.814min 0.479 ppb
response 4262

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:34:24 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:36:57 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.749	1329045	47.030 ppb
Spiked Amount 50.000		Recovery =	94.06%
6) s 2,3,4-trifluorotoluene	19.885	1044209	45.568 ppb
Spiked Amount 50.000		Recovery =	91.14%
16) s fluorobenzene #2	14.749	415829	45.608 ppb
Spiked Amount 50.000		Recovery =	91.22%
18) s 2,3,4-trifluorotoluen...	19.884	240193	43.978 ppb
Spiked Amount 50.000		Recovery =	87.96%
Target Compounds			
1) h rt5.5-7	6.100	32182	1.360 ppb
2) h rt7/10	8.370	77934	3.294 ppb
3) h rt10/13	13.510	221133	9.345 ppb
8) h rt20/25	21.600	136801	3.817 ppb
14) mtbe #2	9.132f	7285	1.670 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	112341	8.888 ppb

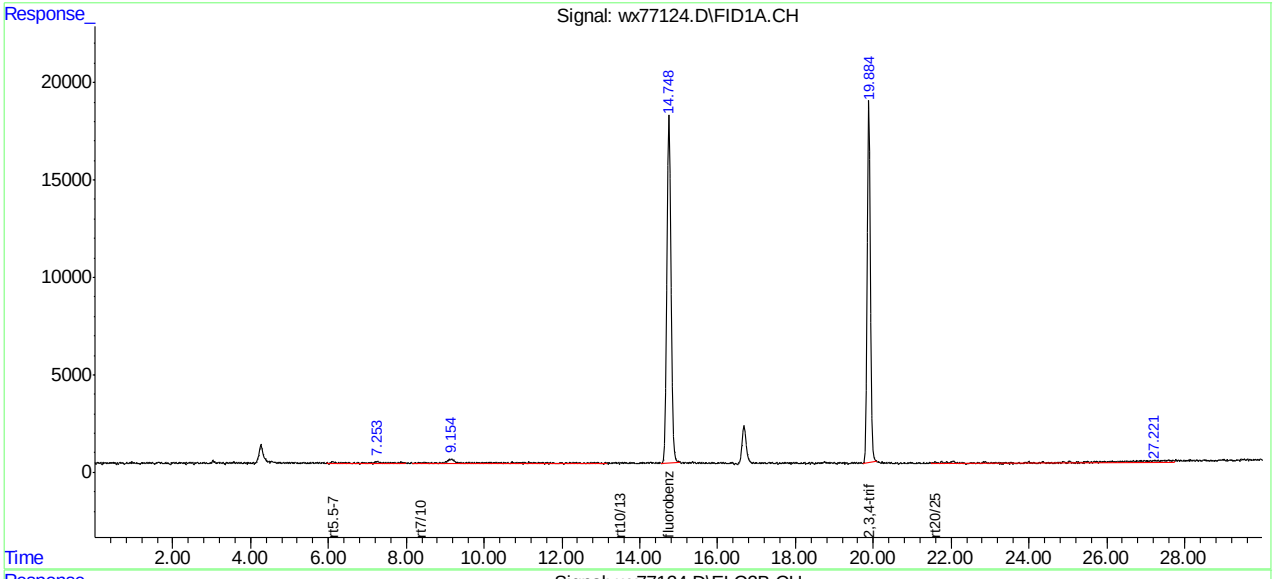
(f)=RT Delta > 1/2 Window (m)=manual int.

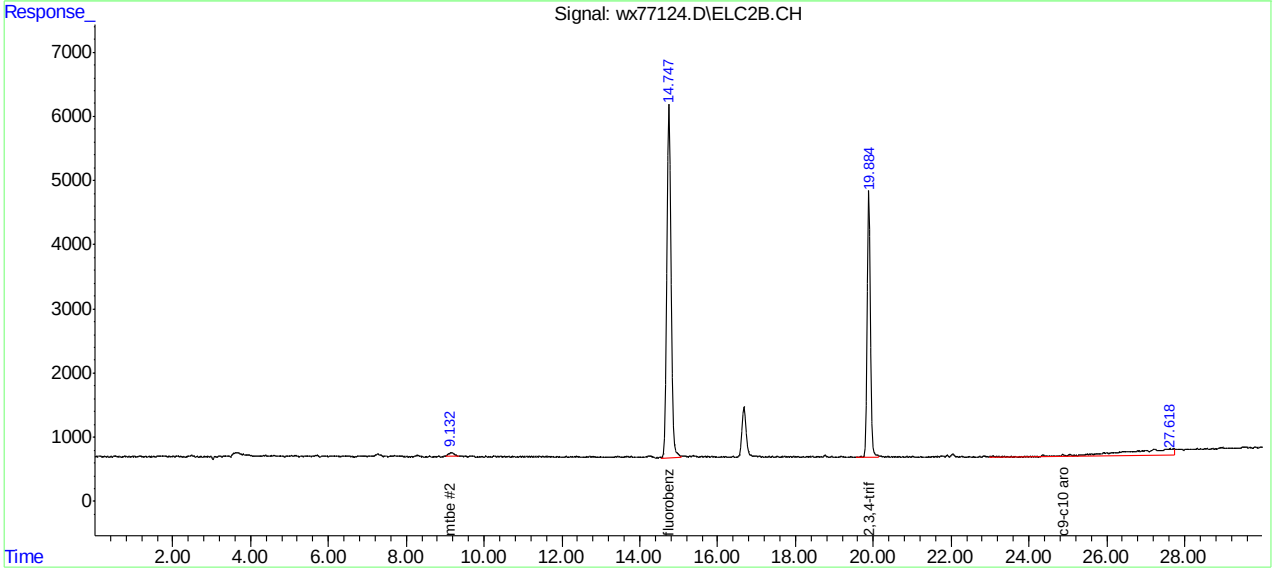
Quantitation Report (QT Reviewed)

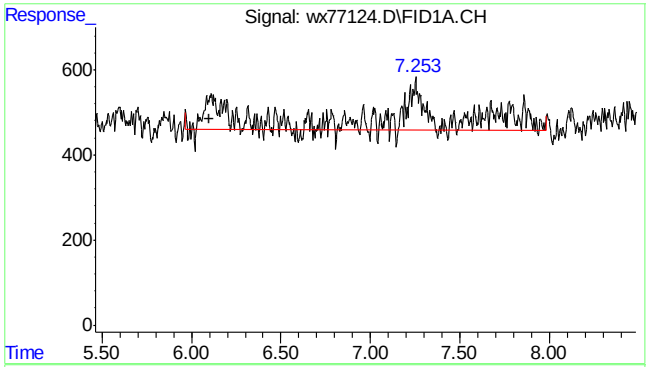
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:36:57 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

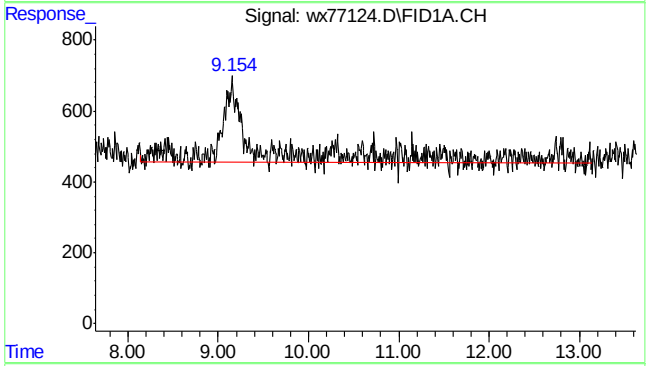






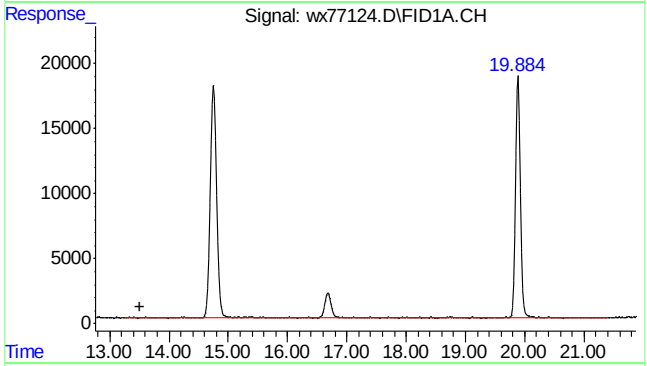
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 32182
Conc: 1.36 ppb m



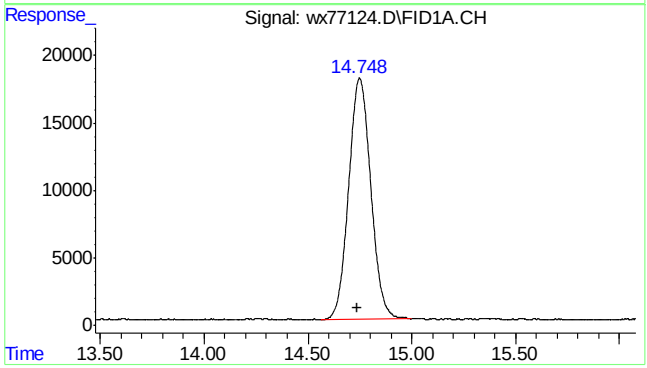
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 77934
Conc: 3.29 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 221133
Conc: 9.35 ppb m



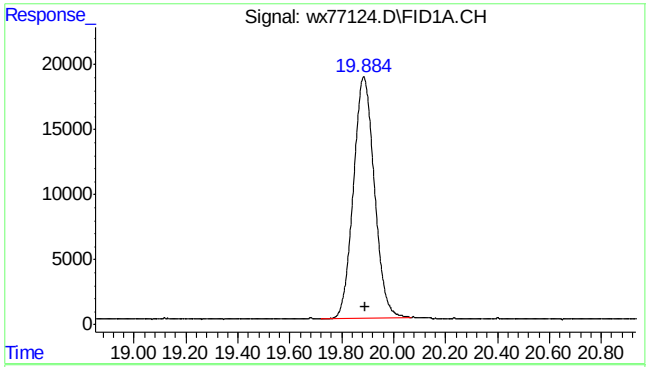
#4 fluorobenzene

R.T.: 14.749 min
Delta R.T.: 0.011 min
Response: 1329045
Conc: 47.03 ppb

7.1.8

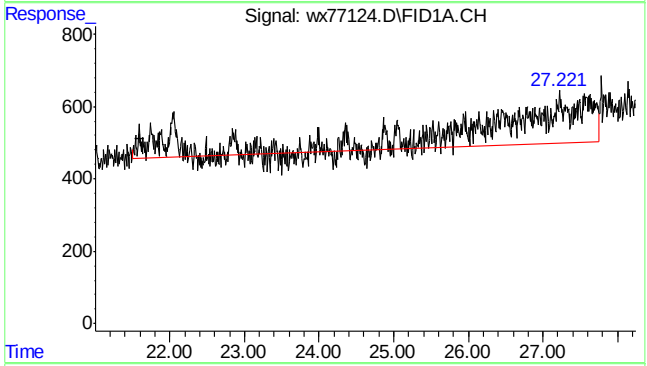
7

SGS ACCUTEST MC46340



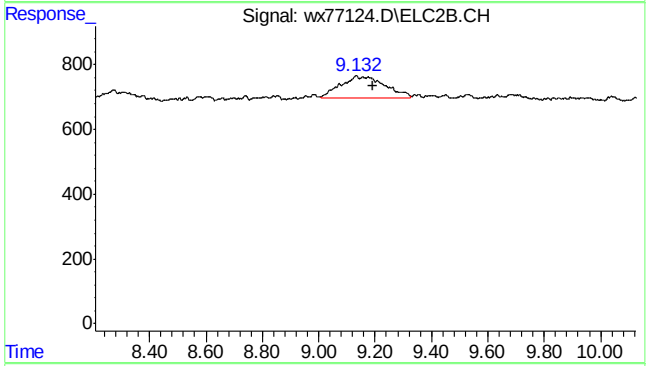
#6 2,3,4-trifluorotoluene

R.T.: 19.885 min
Delta R.T.: -0.005 min
Response: 1044209
Conc: 45.57 ppb



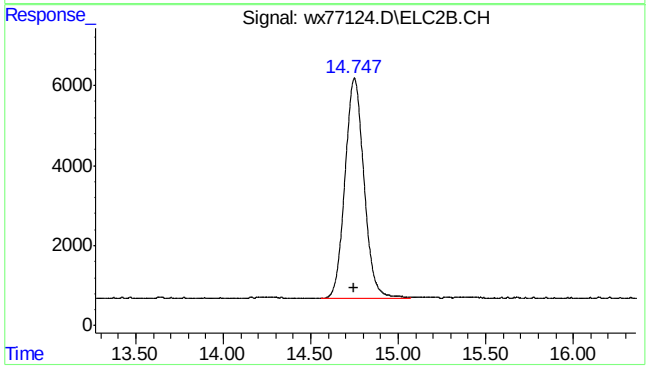
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 136801
Conc: 3.82 ppb m



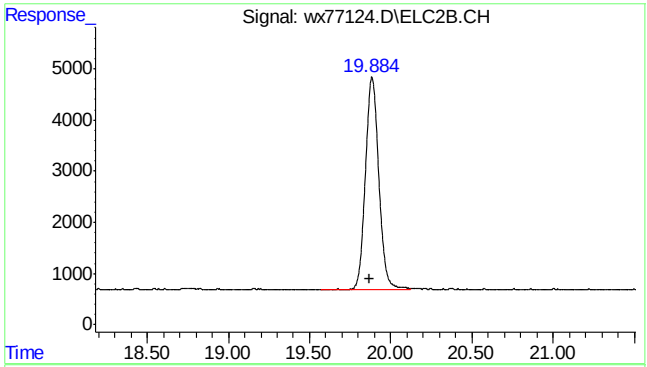
#14 mtbe #2

R.T.: 9.132 min
Delta R.T.: -0.059 min
Response: 7285
Conc: 1.67 ppb m



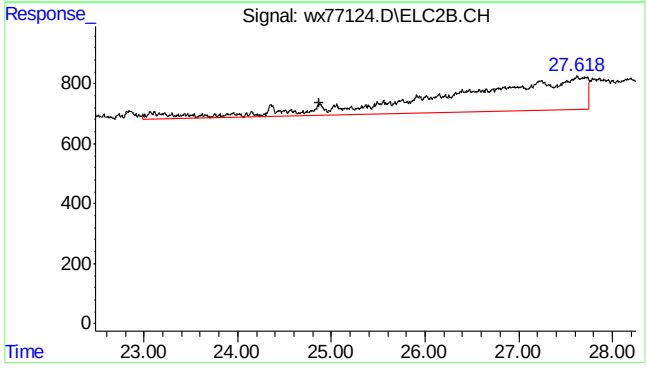
#16 fluorobenzene #2

R.T.: 14.749 min
Delta R.T.: 0.005 min
Response: 415829
Conc: 45.61 ppb



#18 2,3,4-trifluorotoluene #2

```
      R.T.:   19.884 min
Delta R.T.:    0.015 min
  Response:    240193
      Conc:  43.98 ppb
```



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

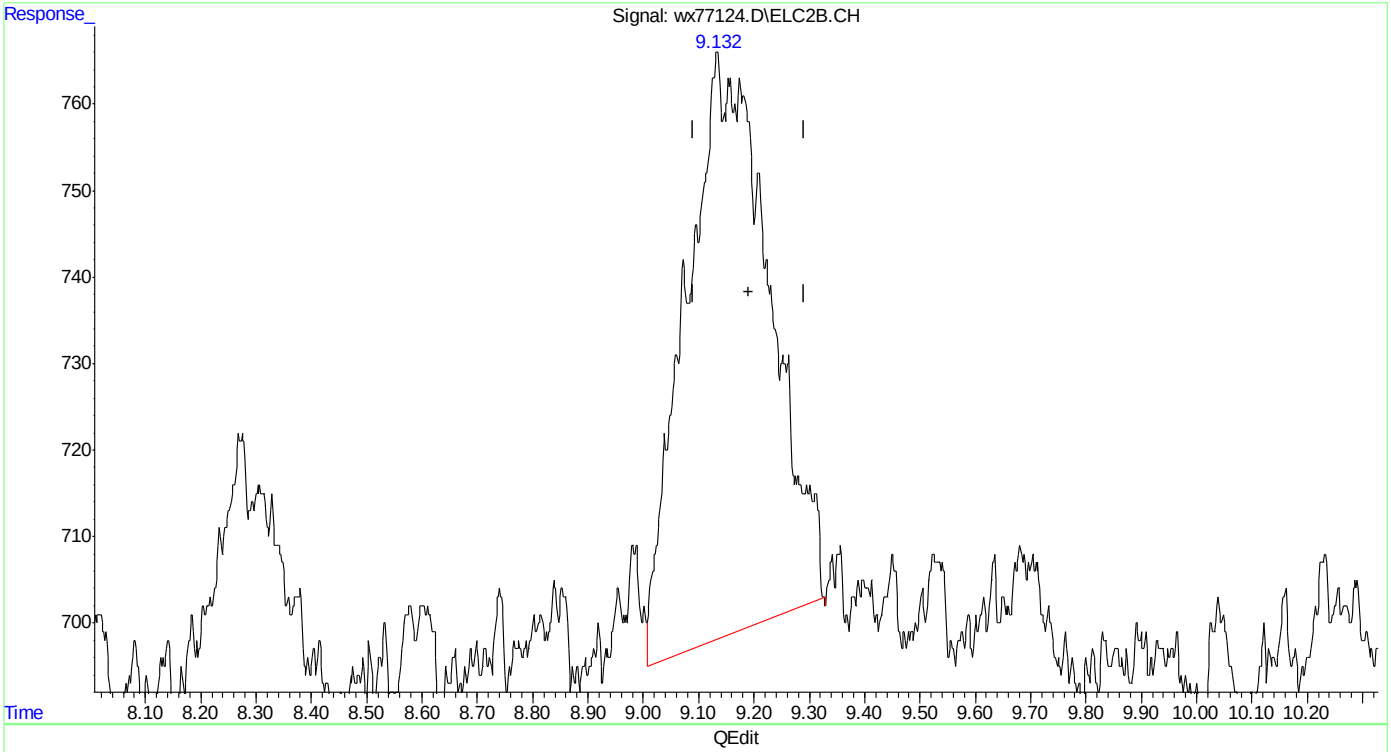
```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:    112341
      Conc:   8.89 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.133min 1.630 ppb
response 7111

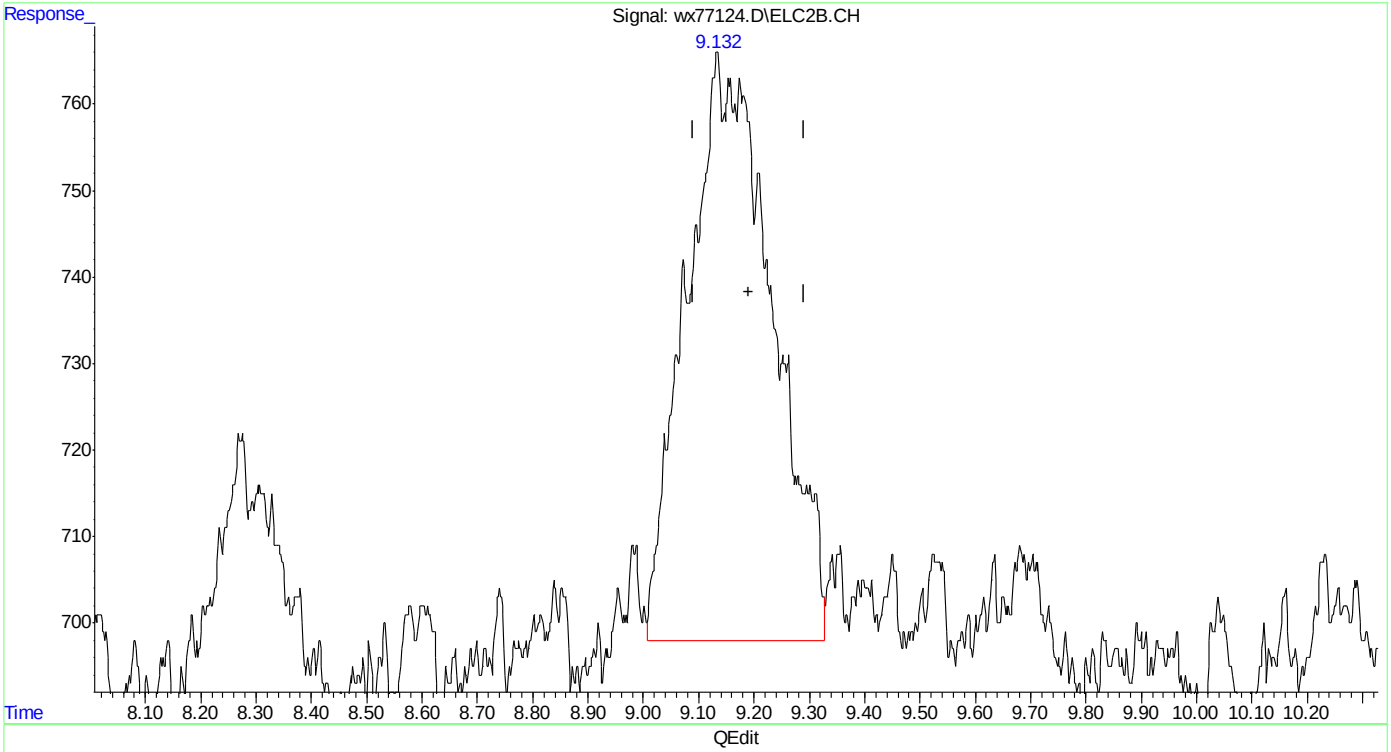
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.132min 1.670 ppb m
response 7285

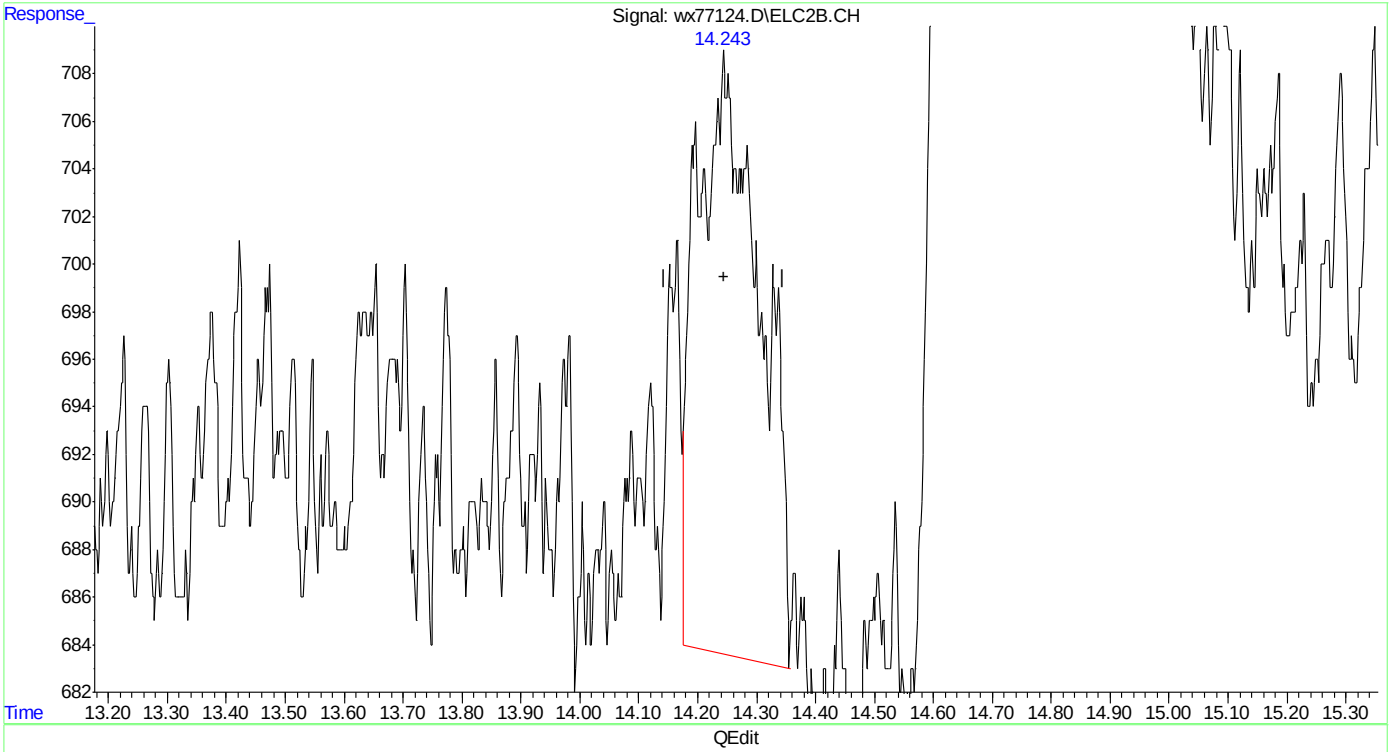
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:36:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.246min 0.131 ppb
response 1864

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:36:27 2016

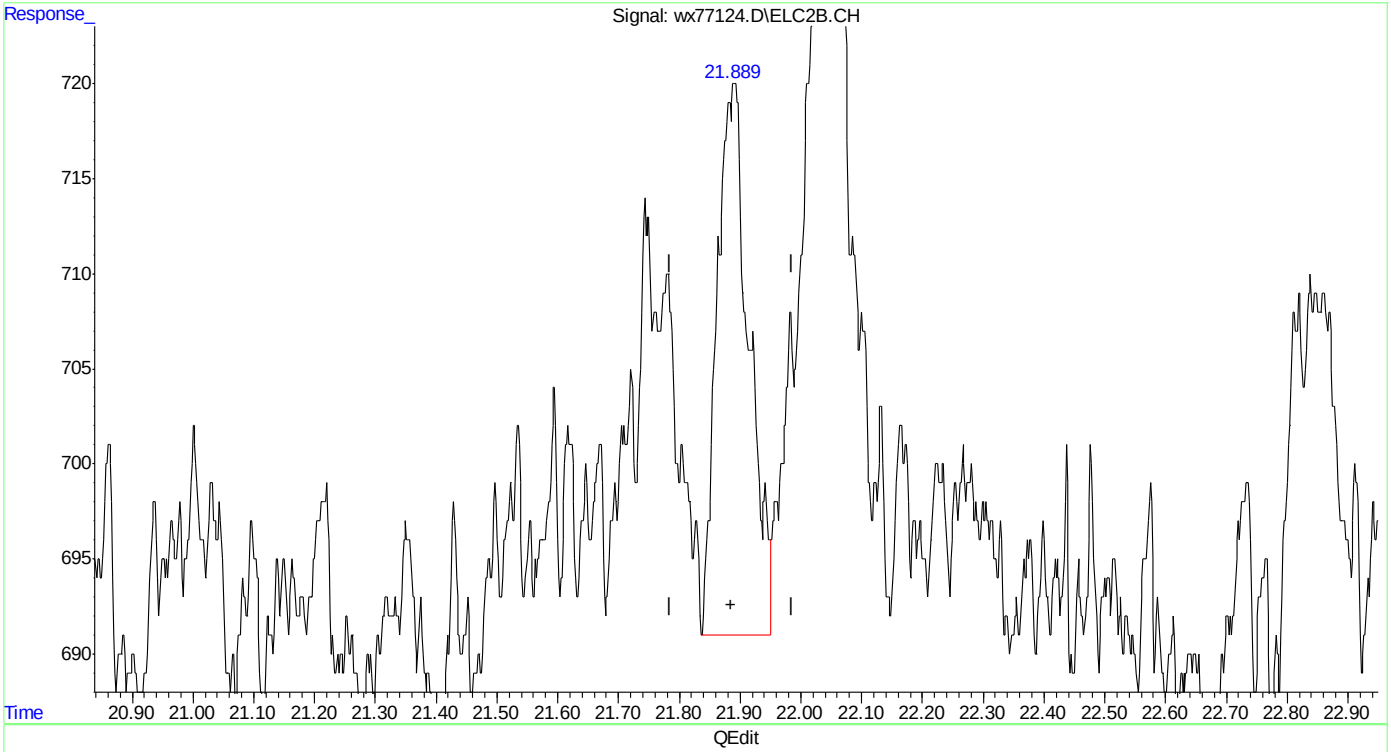
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.888min 0.092 ppb
response 1056

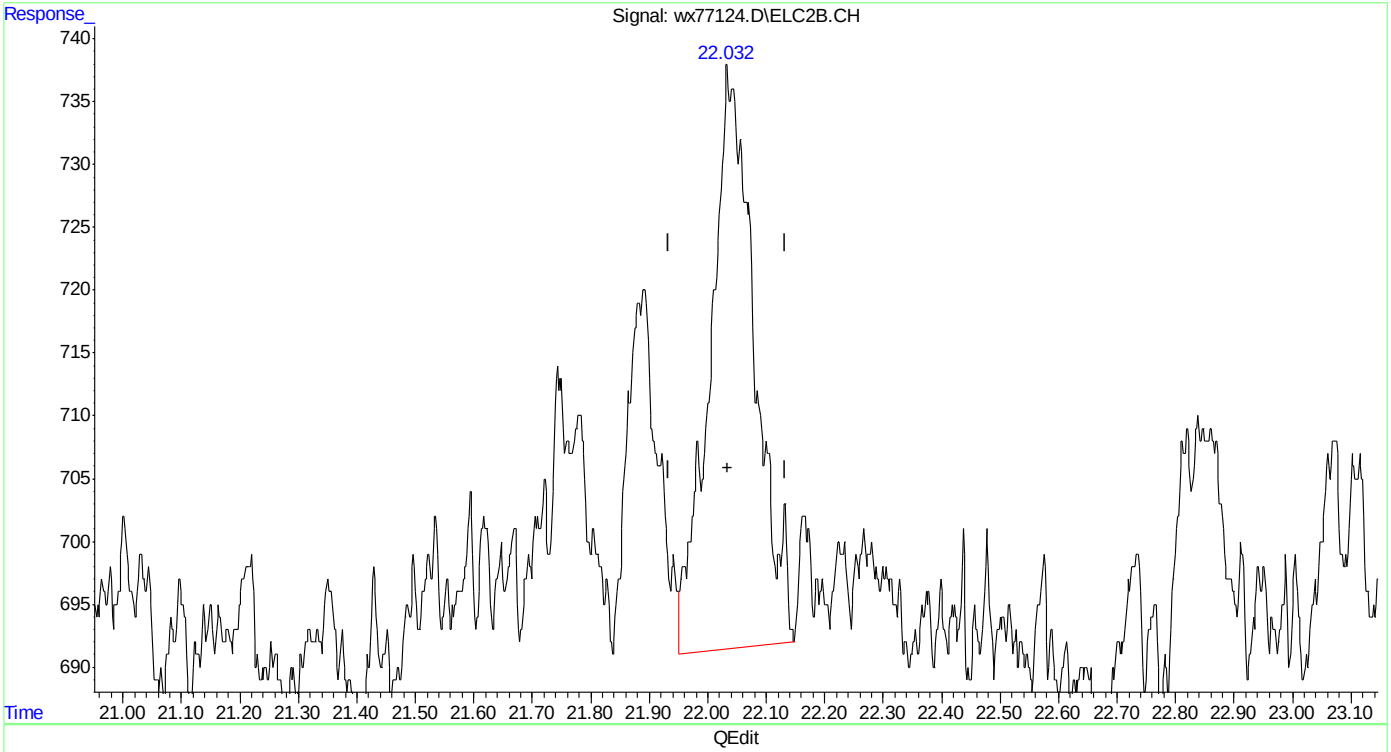
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:36:38 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.039min 0.176 ppb
response 2426

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:36:42 2016

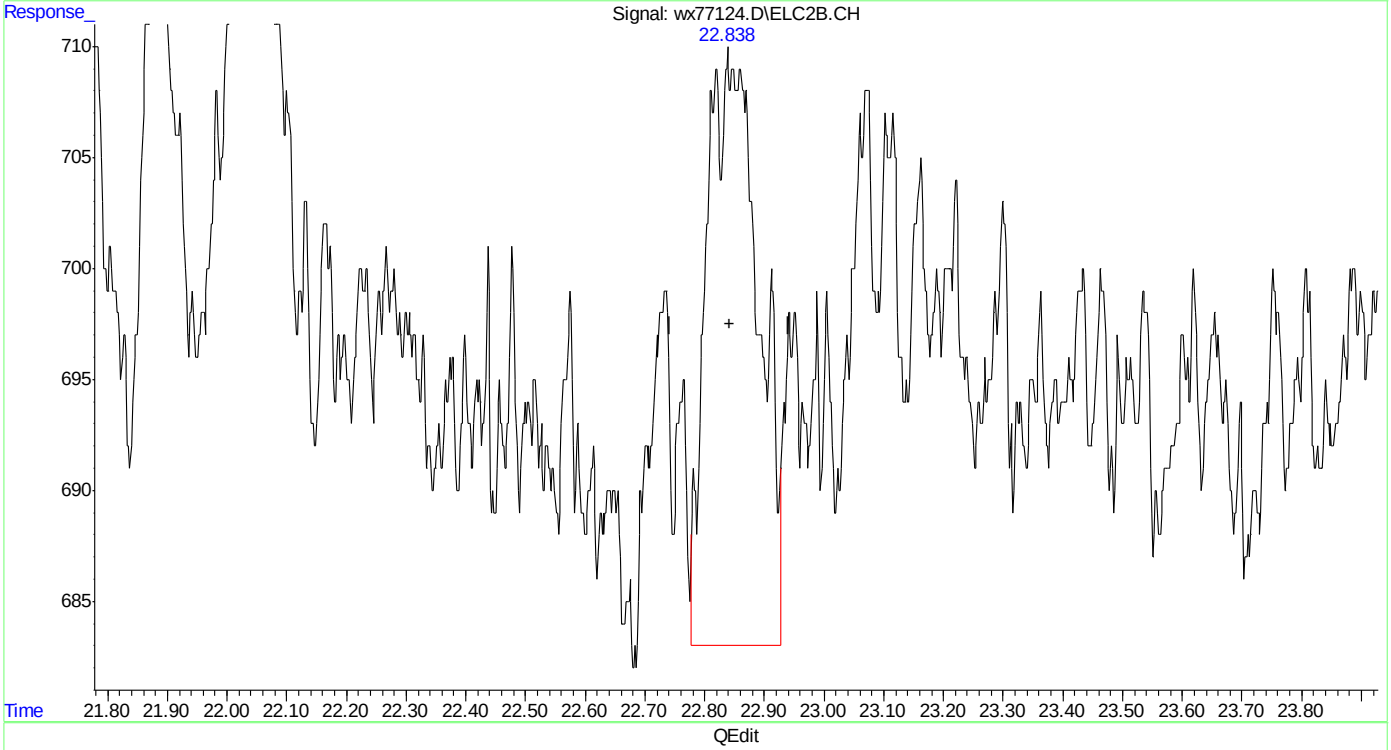
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(21) o-xylene #2
22.845min 0.140 ppb
response 1623

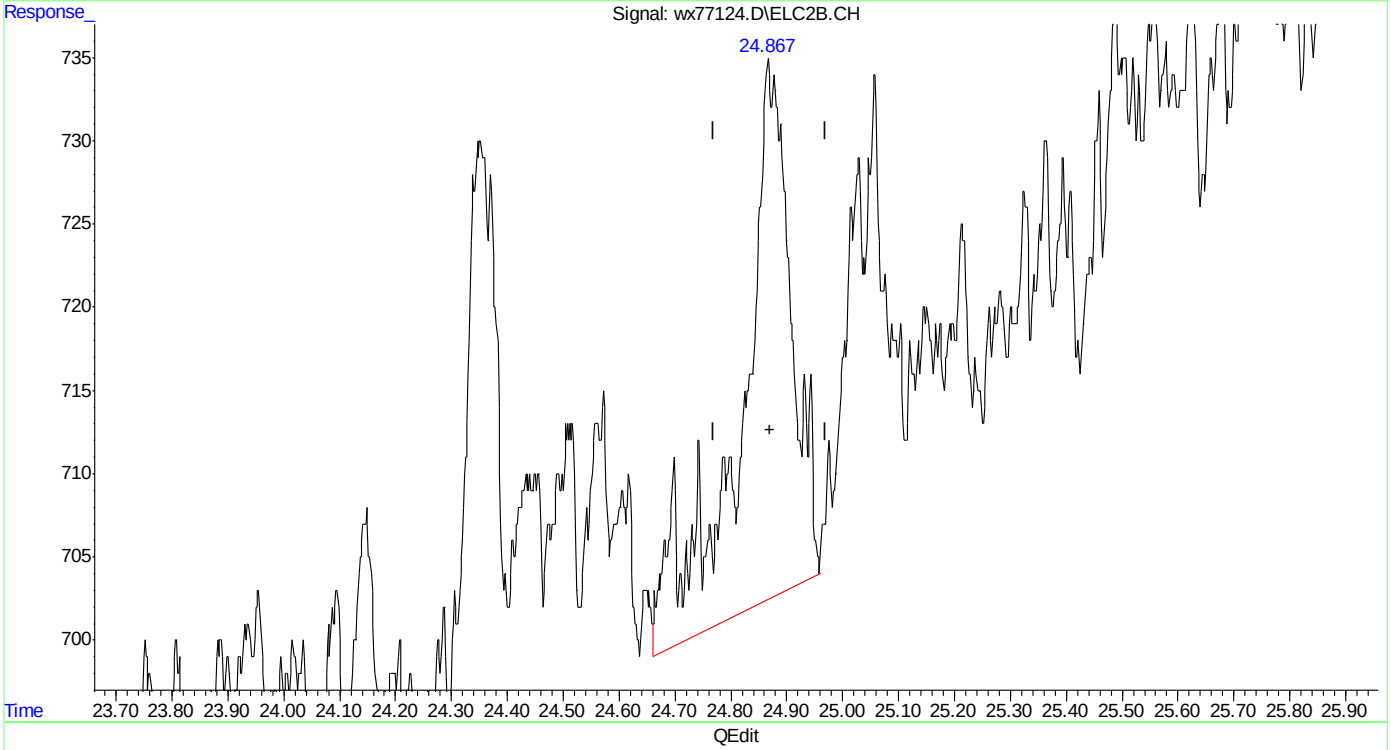
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:36:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.871min 0.156 ppb
response 1976

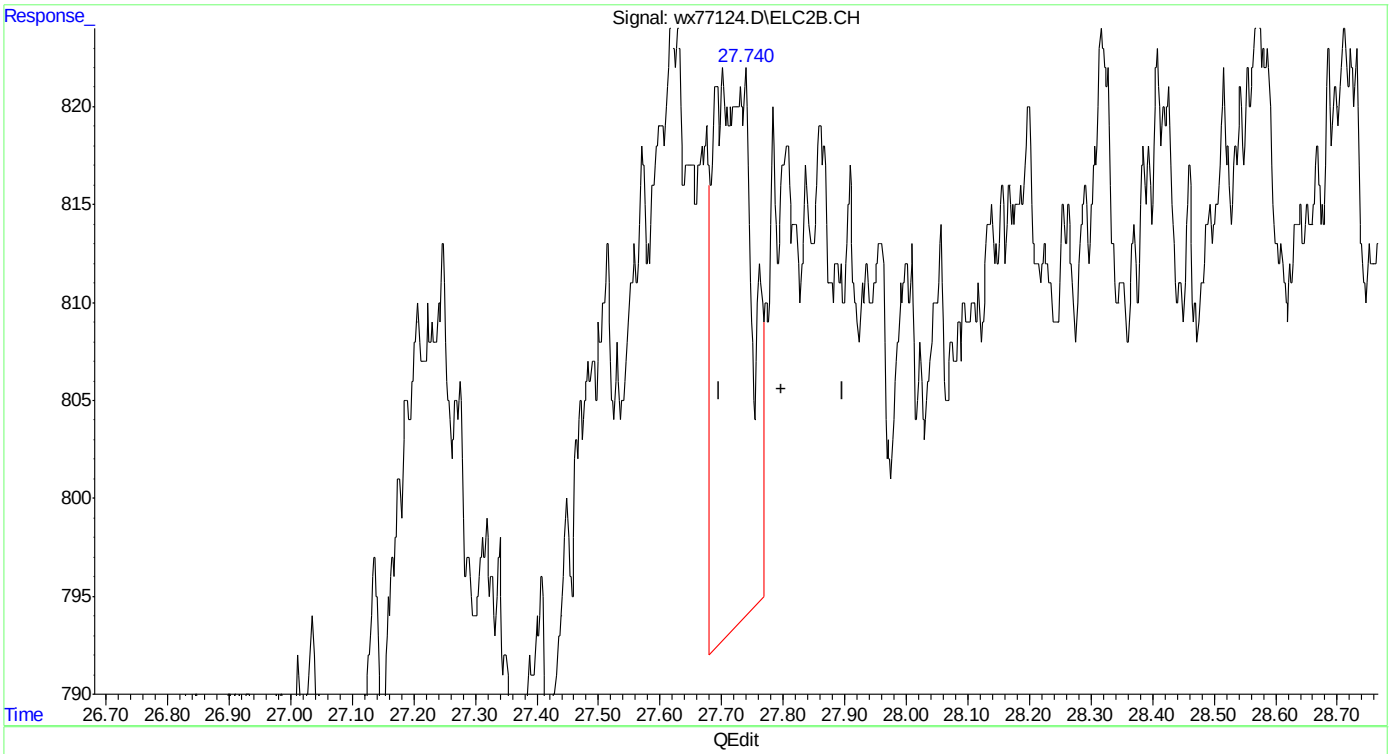
(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:36:51 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77124.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:03 am
Operator : tonyf
Sample : mc46340-8,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.702min 0.138 ppb
response 1232

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:36:56 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:59 pm
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:33:23 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.748	1361880	48.192 ppb
Spiked Amount 50.000		Recovery =	96.38%
6) s 2,3,4-trifluorotoluene	19.888	1069370	46.666 ppb
Spiked Amount 50.000		Recovery =	93.33%
16) s fluorobenzene #2	14.748	426342	46.761 ppb
Spiked Amount 50.000		Recovery =	93.52%
18) s 2,3,4-trifluorotoluen...	19.888	248505	45.500 ppb
Spiked Amount 50.000		Recovery =	91.00%
Target Compounds			
1) h rt5.5-7	6.100	23304	0.985 ppb
2) h rt7/10	8.370	42228	1.785 ppb
3) h rt10/13	13.510	101854	4.304 ppb
8) h rt20/25	21.600	156330	4.362 ppb
24) naphthalene #2	27.811	1610	0.181 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	109712	8.680 ppb

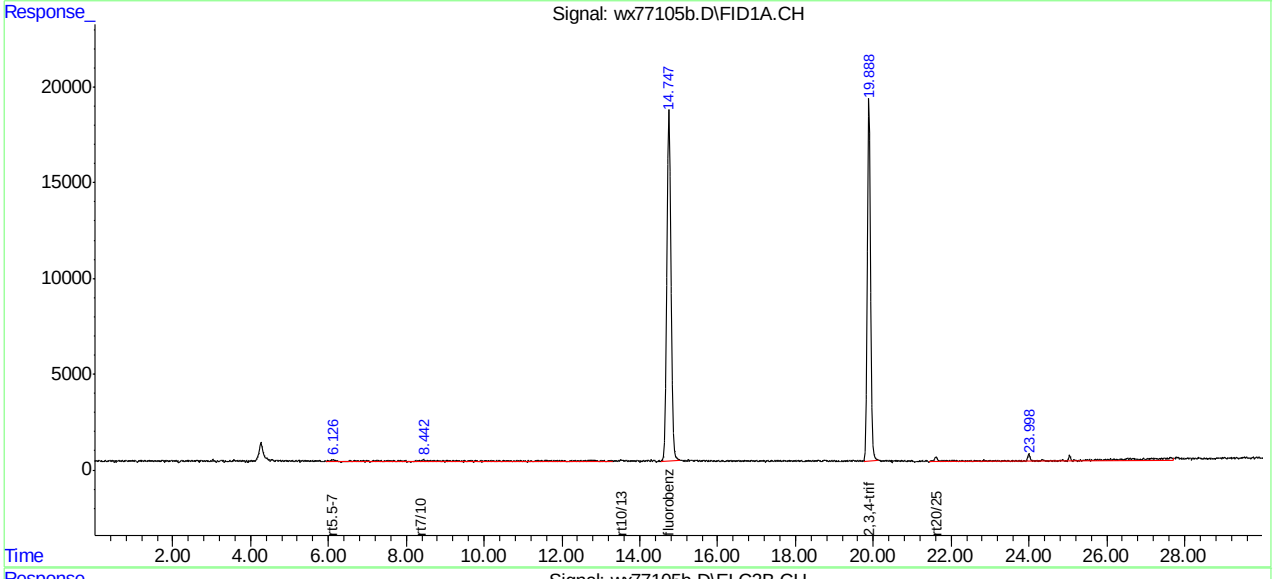
(f)=RT Delta > 1/2 Window (m)=manual int.

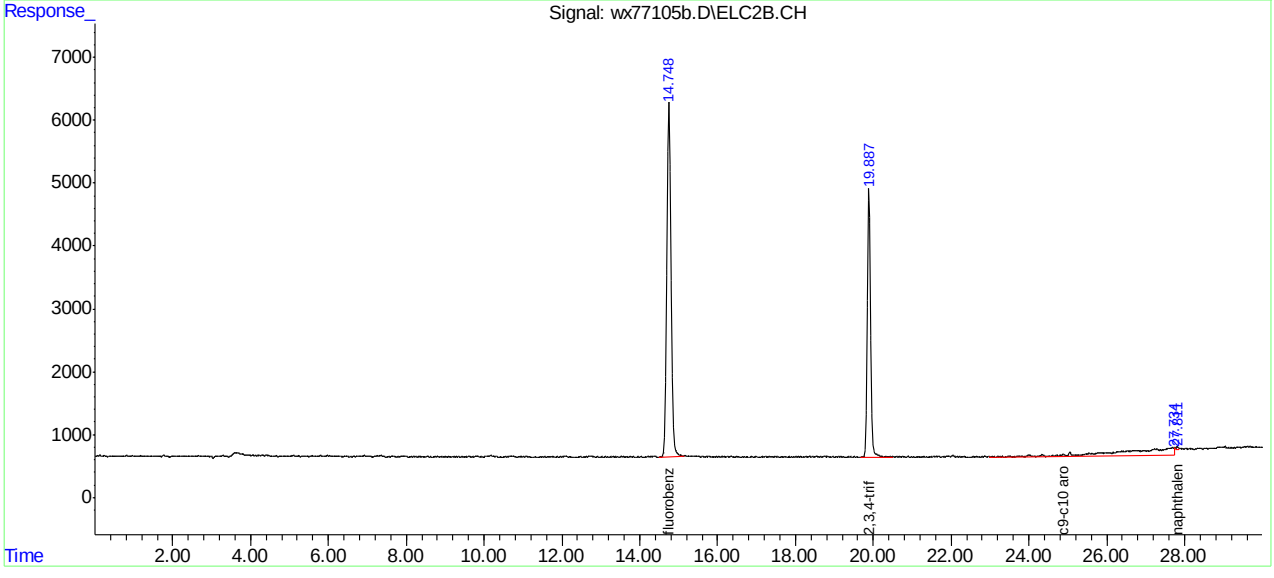
Quantitation Report (QT Reviewed)

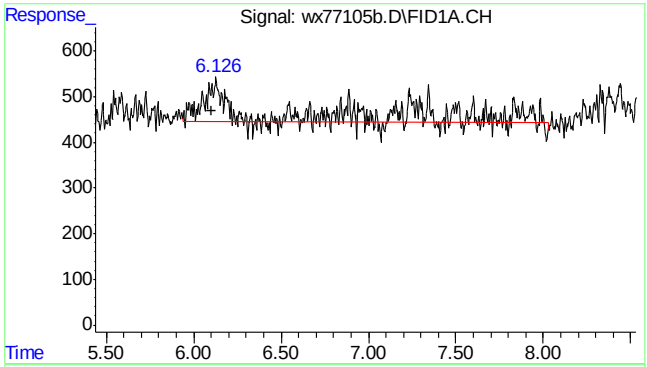
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:59 pm
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:33:23 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

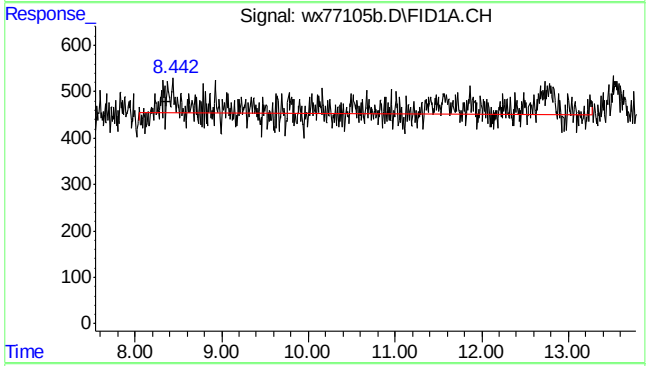






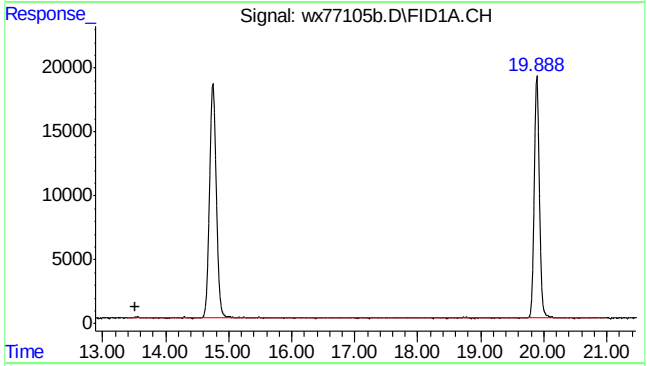
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 23304
Conc: 0.98 ppb m



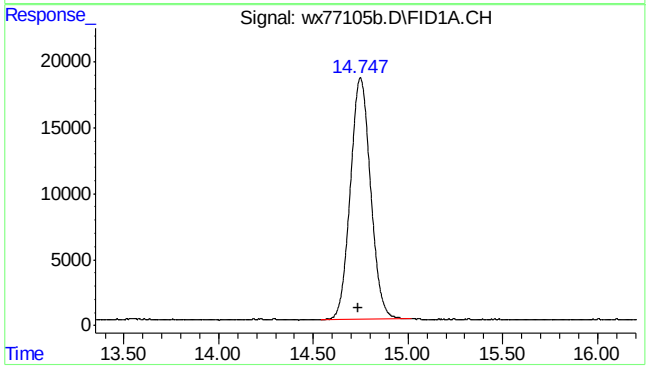
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 42228
Conc: 1.78 ppb m



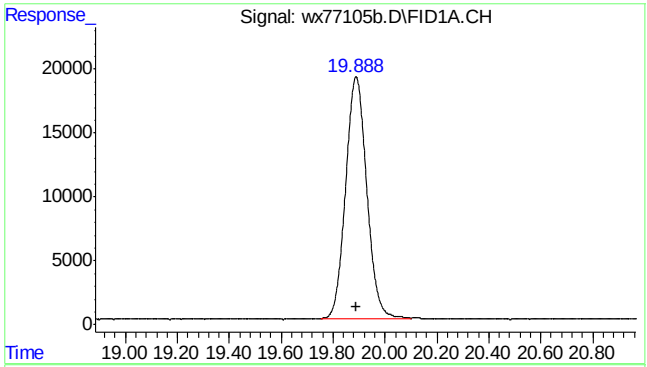
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 101854
Conc: 4.30 ppb m



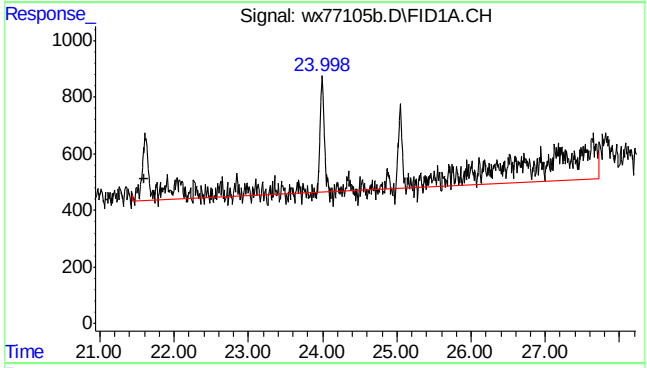
#4 fluorobenzene

R.T.: 14.748 min
Delta R.T.: 0.010 min
Response: 1361880
Conc: 48.19 ppb



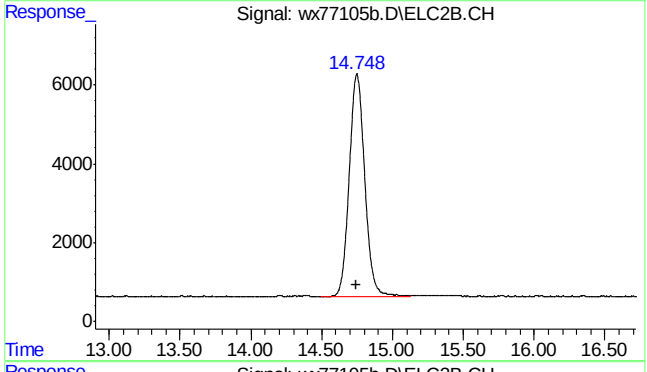
#6 2,3,4-trifluorotoluene

R.T.: 19.888 min
Delta R.T.: -0.002 min
Response: 1069370
Conc: 46.67 ppb



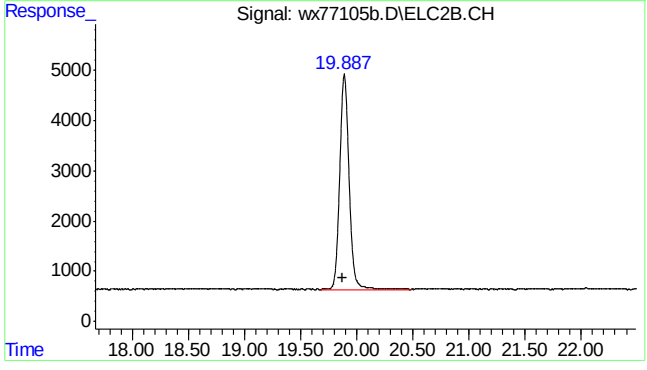
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 156330
Conc: 4.36 ppb m



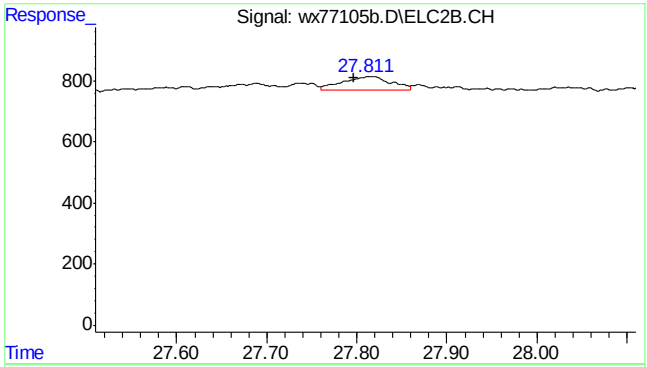
#16 fluorobenzene #2

R.T.: 14.748 min
Delta R.T.: 0.004 min
Response: 426342
Conc: 46.76 ppb



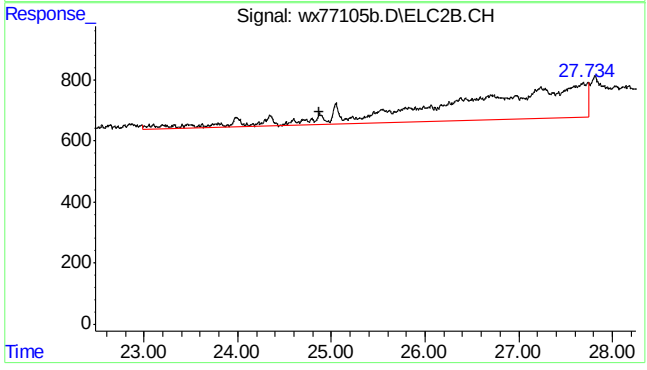
#18 2,3,4-trifluorotoluene #2

R.T.: 19.888 min
Delta R.T.: 0.019 min
Response: 248505
Conc: 45.50 ppb



#24 naphthalene #2

```
      R.T.:   27.811 min
Delta R.T.:    0.014 min
  Response:      1610
      Conc:   0.18 ppb m
```



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

```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:    109712
      Conc:   8.68 ppb m
```

7.2.1

7

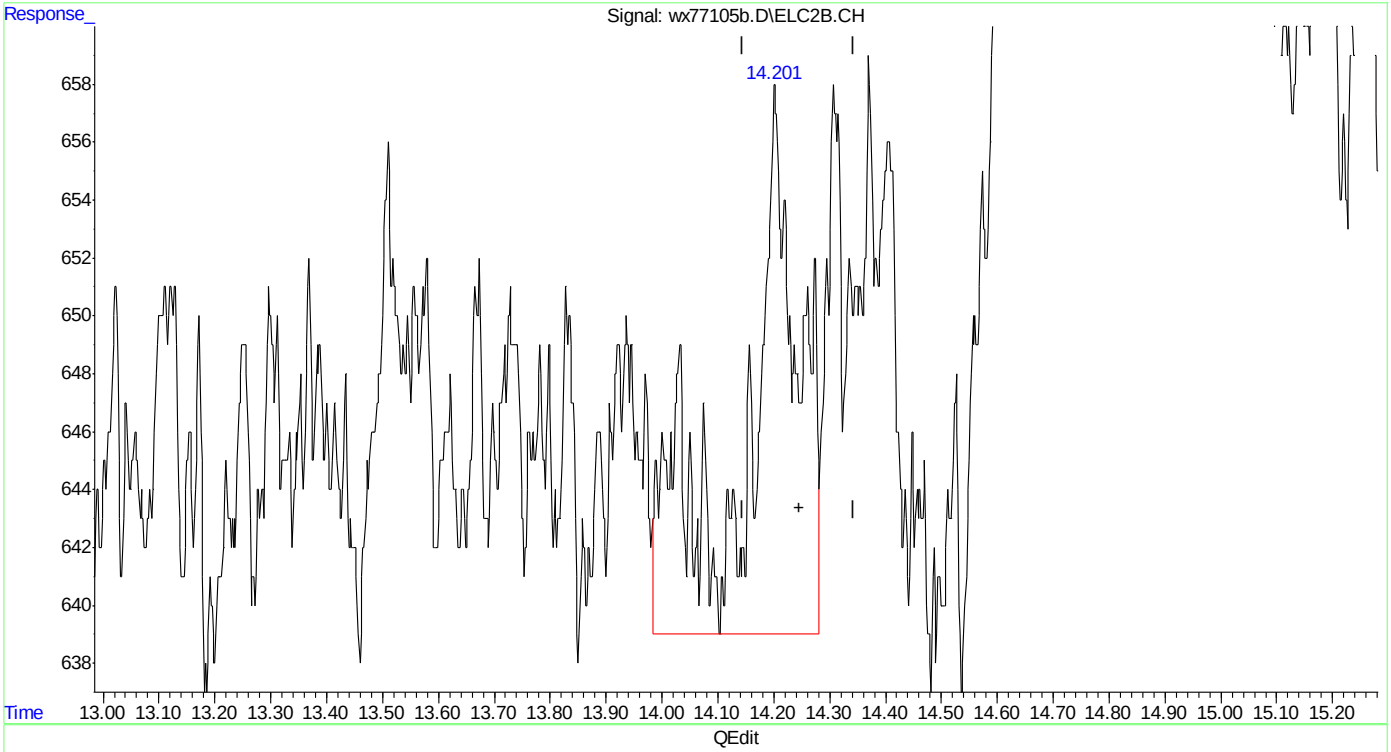
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:59 pm
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:32:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.205min 0.089 ppb
response 1266

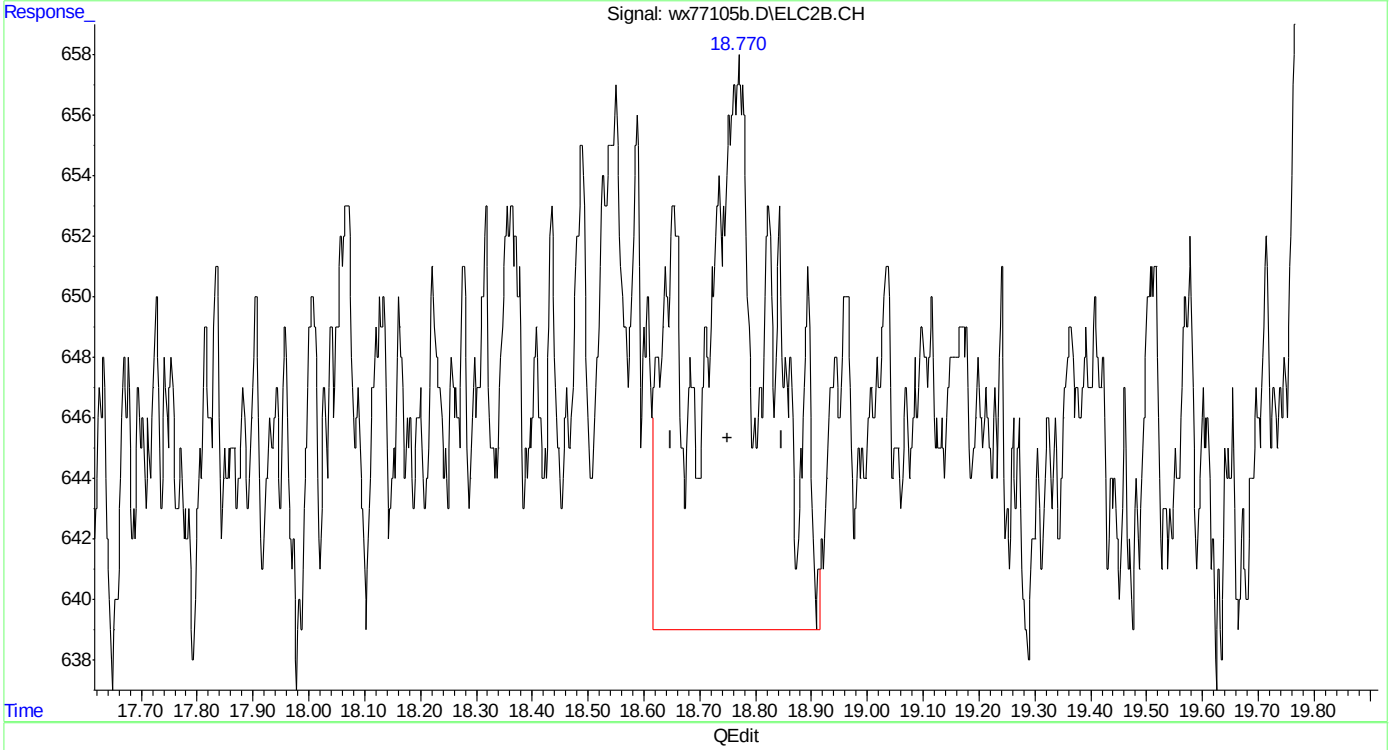
(+) = Expected Retention Time
wx160613vph.M Mon Jun 13 14:32:25 2016

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13 Jun 2016   1:59 pm
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26361,gwx3791,,,,5,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:32:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2

18.766min 0.136 ppb

response 1745

(+) = Expected Retention Time

wx160613vph.M Mon Jun 13 14:32:30 2016

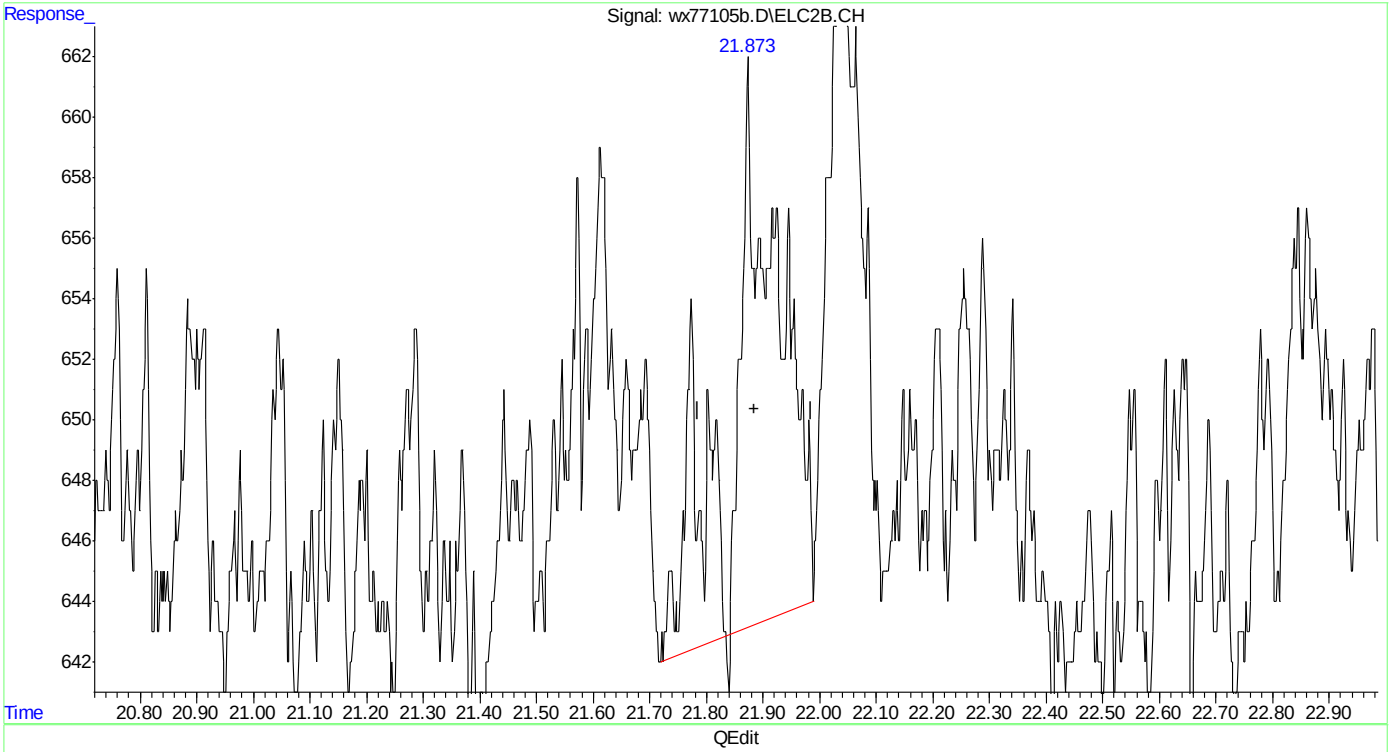
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:59 pm
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:32:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) ethylbenzene #2
21.914min 0.097 ppb
response 1113

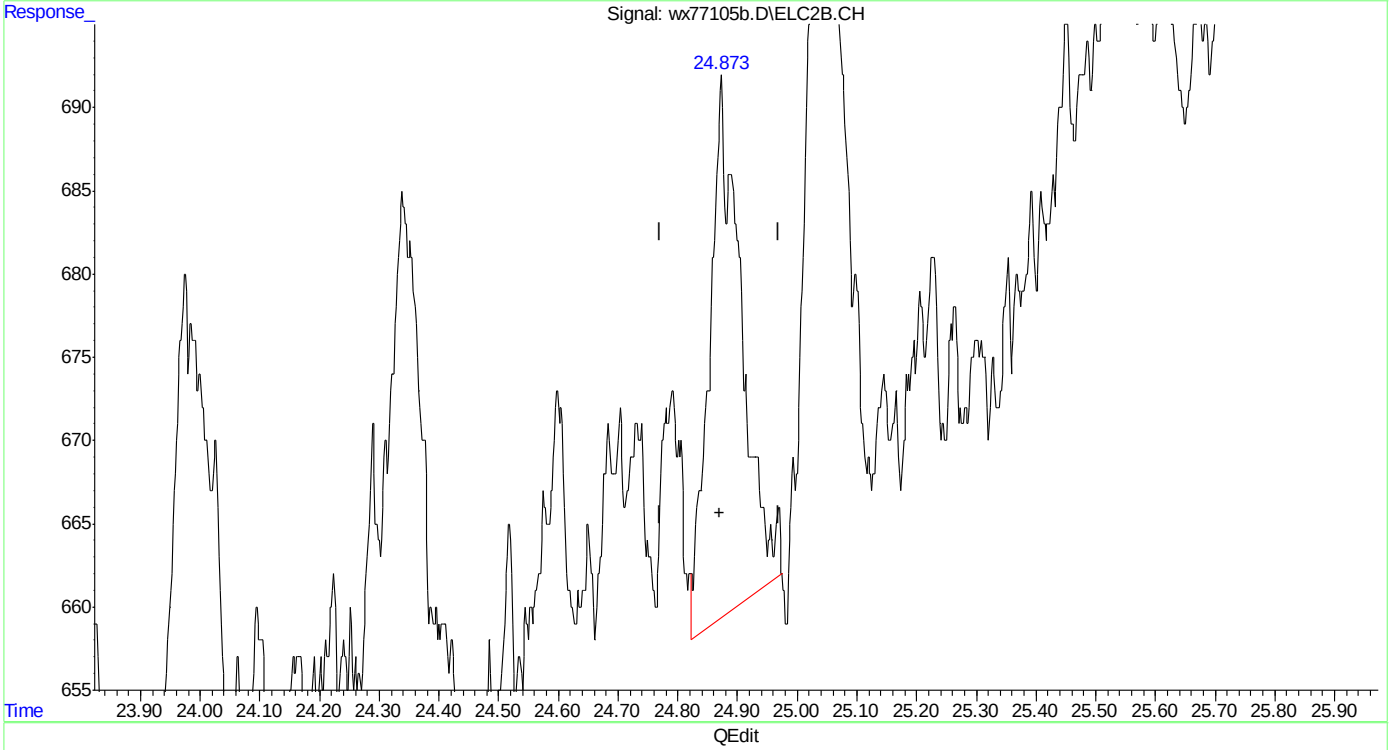
(+) = Expected Retention Time
wx160613vph.M Mon Jun 13 14:32:48 2016

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:59 pm
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:32:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.879min 0.094 ppb
response 1187

(+) = Expected Retention Time
wx160613vph.M Mon Jun 13 14:32:54 2016

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:59 pm
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:32:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.813min 1.583 ppb
response 14102

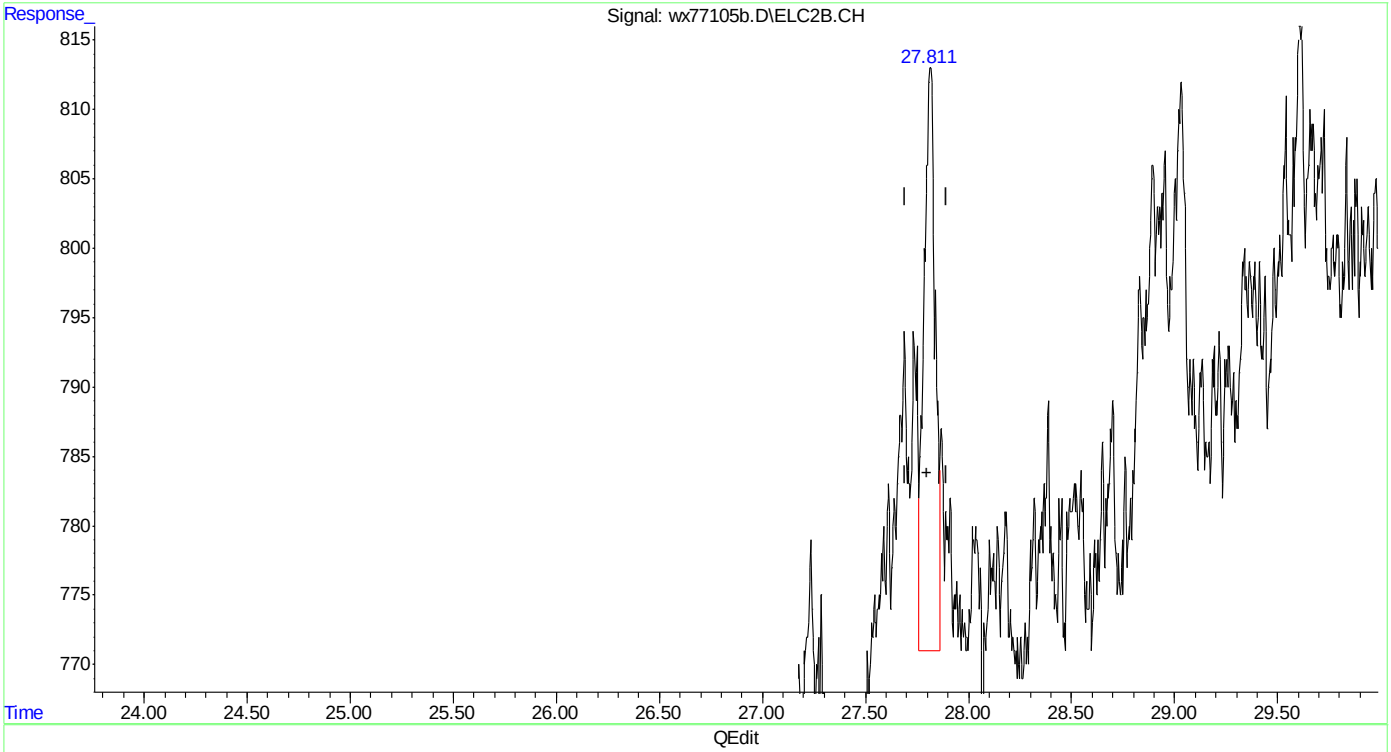
(+) = Expected Retention Time
wx160613vph.M Mon Jun 13 14:32:58 2016

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77105b.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13 Jun 2016   1:59 pm
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26361,gwx3791,,,,5,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 14:32:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.811min 0.181 ppb m

response 1610

(+) = Expected Retention Time

wx160613vph.M Mon Jun 13 14:33:27 2016

SGS ACCUTEST MC46340

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77106.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 2:37 pm
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 15:09:20 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.753	1336029	47.277 ppb
Spiked Amount 50.000		Recovery =	94.55%
6) s 2,3,4-trifluorotoluene	19.891	1071088	46.741 ppb
Spiked Amount 50.000		Recovery =	93.48%
16) s fluorobenzene #2	14.751	417590	45.801 ppb
Spiked Amount 50.000		Recovery =	91.60%
18) s 2,3,4-trifluorotoluen...	19.890	241168	44.156 ppb
Spiked Amount 50.000		Recovery =	88.31%
Target Compounds			
1) h rt5.5-7	6.100	1079358	45.614 ppb
2) h rt7/10	8.370	1311866	55.440 ppb
3) h rt10/13	13.510	1092696	46.178 ppb
8) h rt20/25	21.600	1296192	36.164 ppb
10) h Decane	23.990	1221341	34.076 ppb
11) h Butylcyclohexane	25.040	1380363	38.513 ppb
14) mtbe #2	9.146	205715	47.151 ppb
15) benzene #2	14.246	647093	45.552 ppb
17) toluene #2	18.755	591544	45.982 ppb
19) ethylbenzene #2	21.896	519704	45.402 ppb
20) m,p-xylene #2	22.045	1264625	91.524 ppb
21) o-xylene #2	22.853	533842	45.963 ppb
22) t 1,3,5-trimethylbenzen...	24.351	748203	43.896 ppb
23) 1,2,4-trimethylbenzen...	24.879	578569	45.754 ppb
24) naphthalene #2	27.810	516173	57.947 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	578986	45.806 ppb

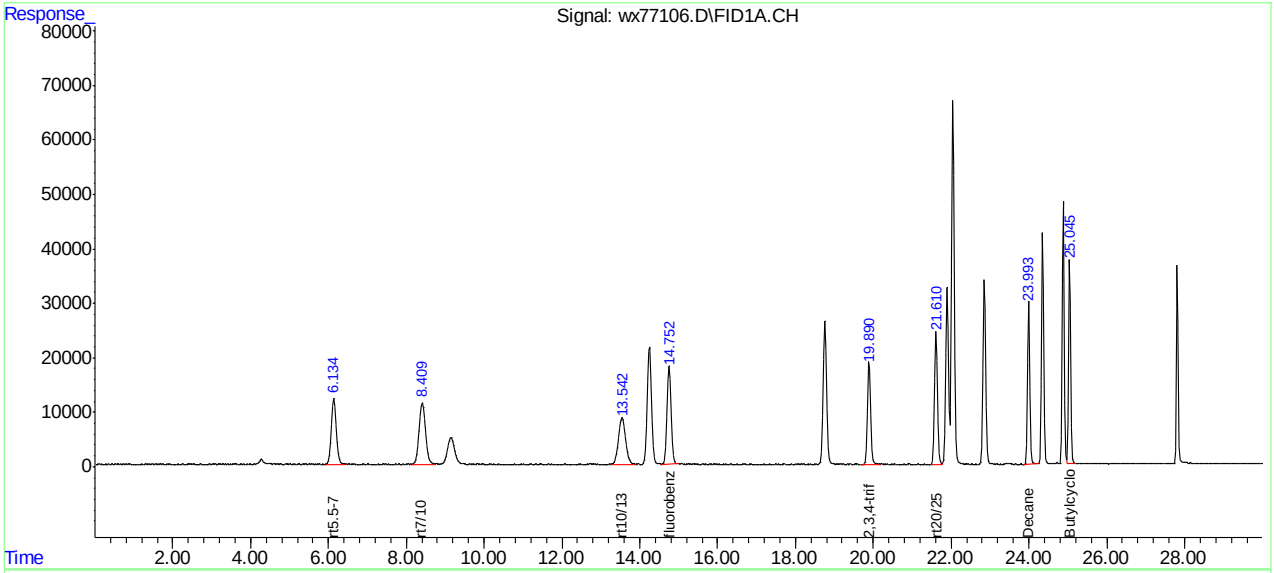
(f)=RT Delta > 1/2 Window (m)=manual int.

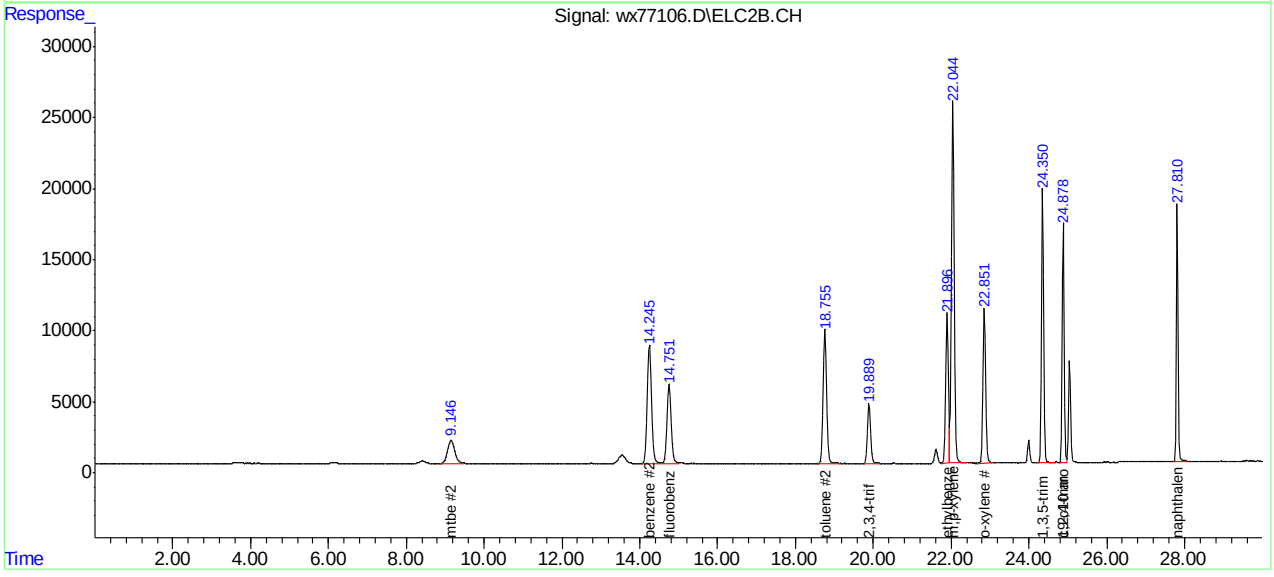
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77106.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 2:37 pm
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

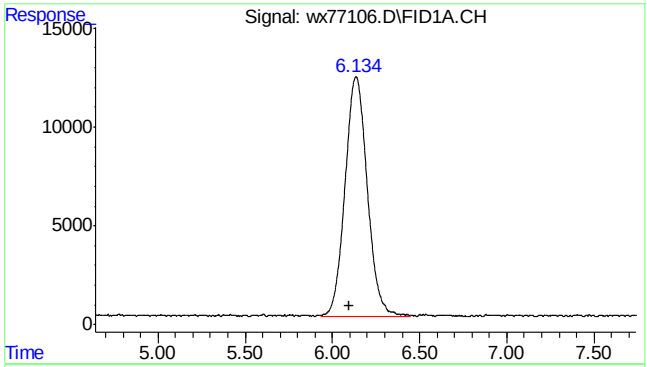
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 15:09:20 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



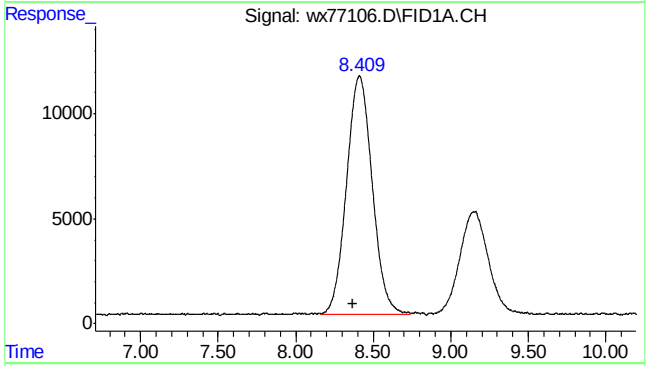


SGS ACCUTEST MC46340



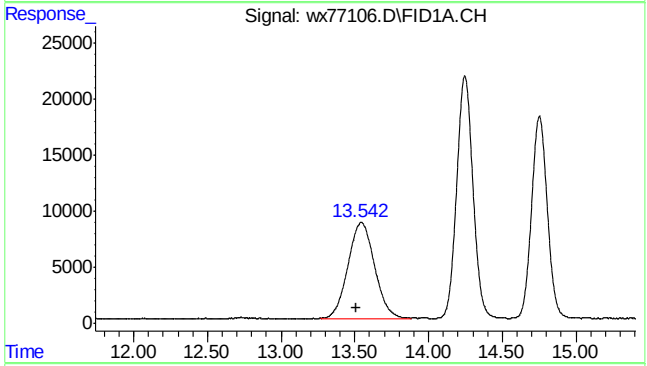
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1079358
Conc: 45.61 ppb m



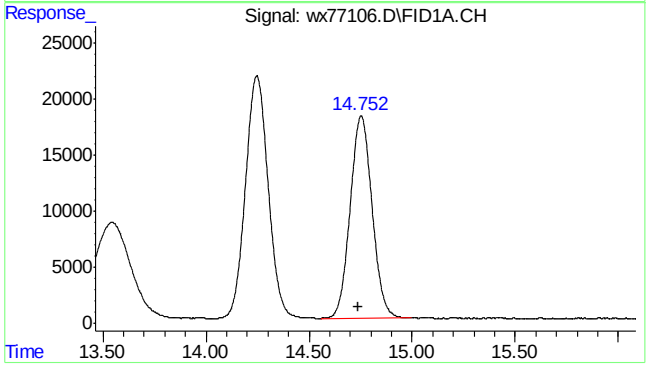
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1311866
Conc: 55.44 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1092696
Conc: 46.18 ppb m



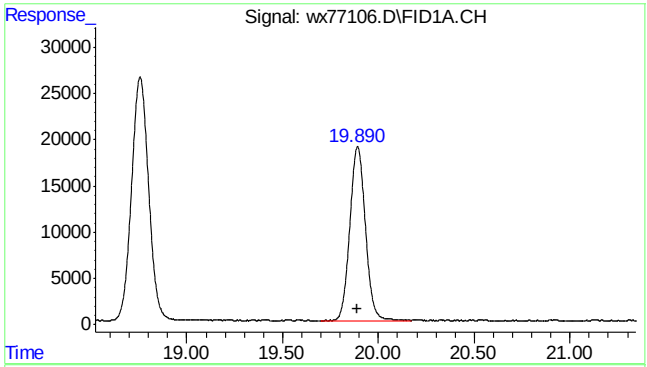
#4 fluorobenzene

R.T.: 14.753 min
Delta R.T.: 0.014 min
Response: 1336029
Conc: 47.28 ppb

7.3.1

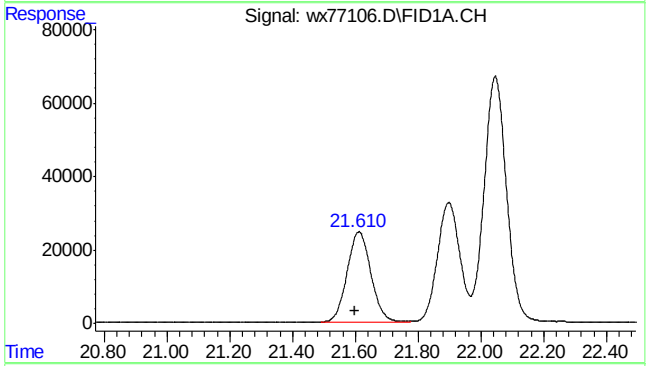
7

SGS ACCUTEST MC46340



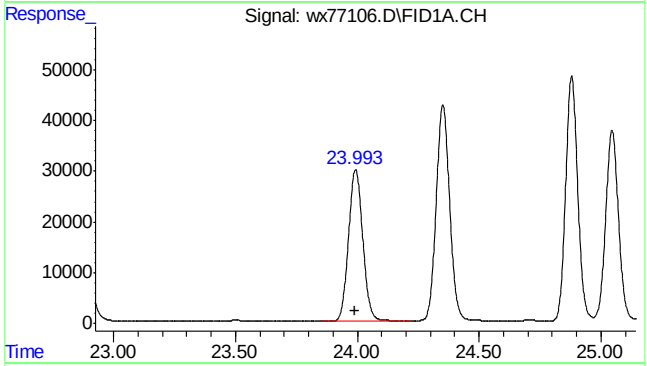
#6 2,3,4-trifluorotoluene

R.T.: 19.891 min
Delta R.T.: 0.000 min
Response: 1071088
Conc: 46.74 ppb



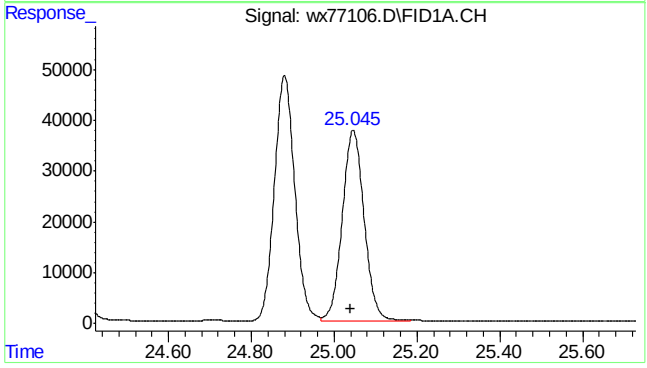
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1296192
Conc: 36.16 ppb m



#10 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1221341
Conc: 34.08 ppb m



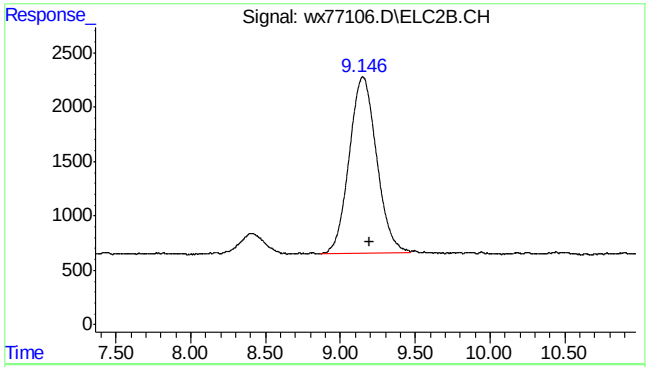
#11 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1380363
Conc: 38.51 ppb m

7.3.1

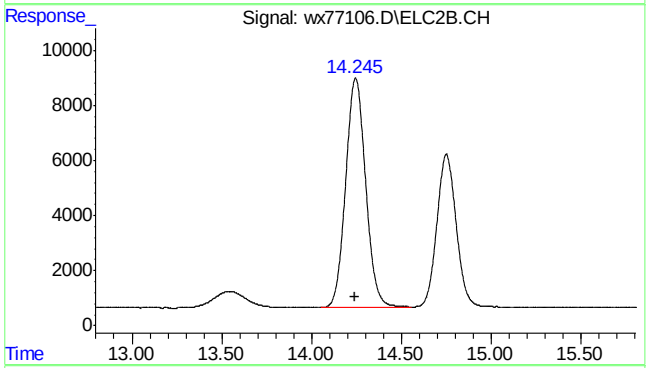
7

SGS ACCUTEST MC46340



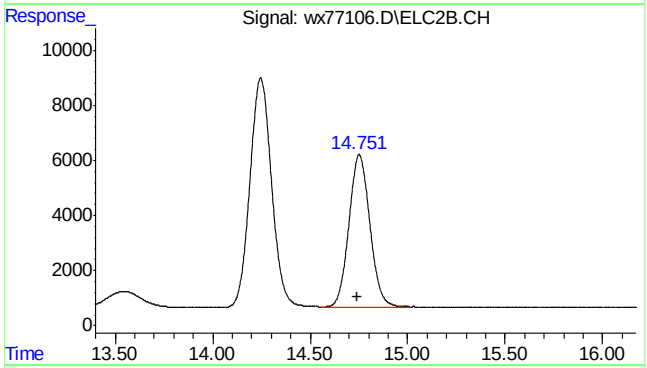
#14 mtbe #2

R.T.: 9.146 min
Delta R.T.: -0.045 min
Response: 205715
Conc: 47.15 ppb



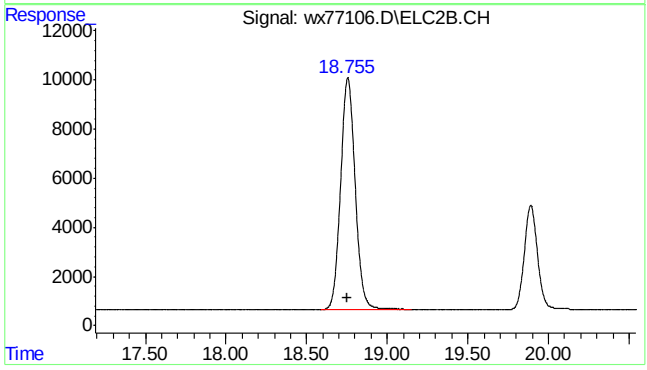
#15 benzene #2

R.T.: 14.246 min
Delta R.T.: 0.000 min
Response: 647093
Conc: 45.55 ppb



#16 fluorobenzene #2

R.T.: 14.751 min
Delta R.T.: 0.007 min
Response: 417590
Conc: 45.80 ppb



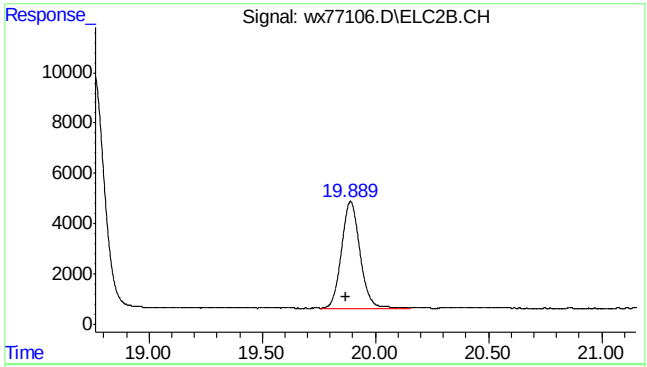
#17 toluene #2

R.T.: 18.755 min
Delta R.T.: 0.006 min
Response: 591544
Conc: 45.98 ppb

7.3.1

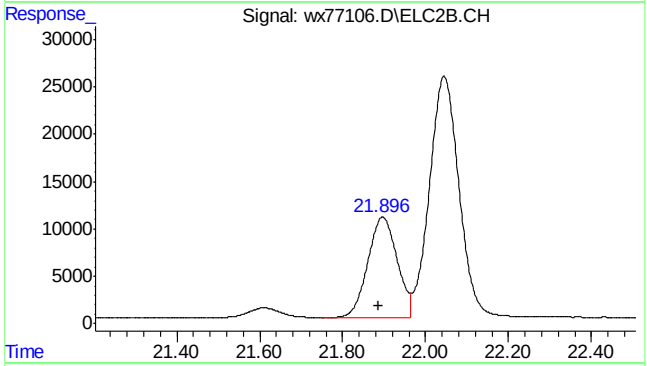
7

SGS ACCUTEST MC46340



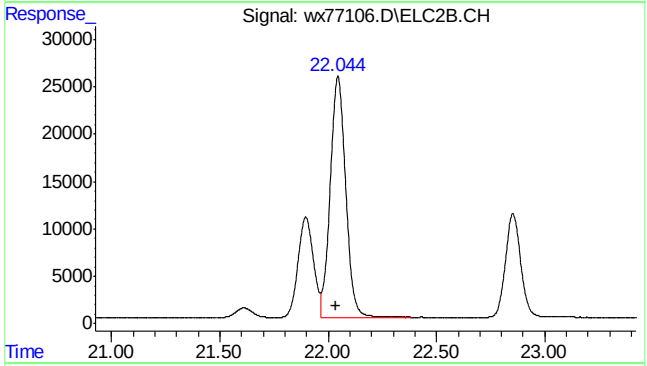
#18 2,3,4-trifluorotoluene #2

R.T.: 19.890 min
Delta R.T.: 0.021 min
Response: 241168
Conc: 44.16 ppb



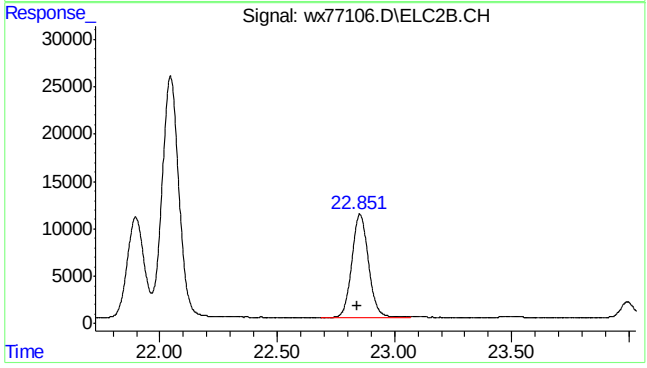
#19 ethylbenzene #2

R.T.: 21.896 min
Delta R.T.: 0.011 min
Response: 519704
Conc: 45.40 ppb



#20 m,p-xylene #2

R.T.: 22.045 min
Delta R.T.: 0.011 min
Response: 1264625
Conc: 91.52 ppb



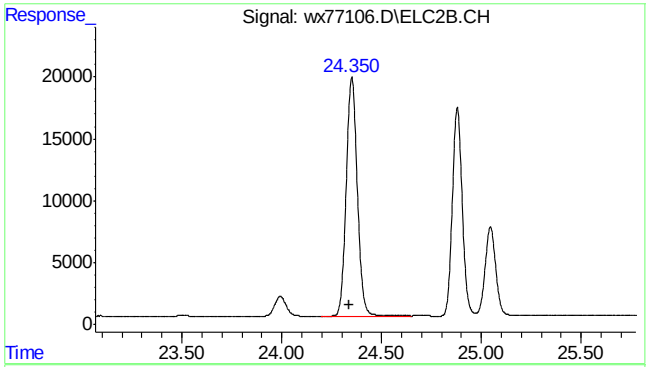
#21 o-xylene #2

R.T.: 22.853 min
Delta R.T.: 0.011 min
Response: 533842
Conc: 45.96 ppb

7.3.1

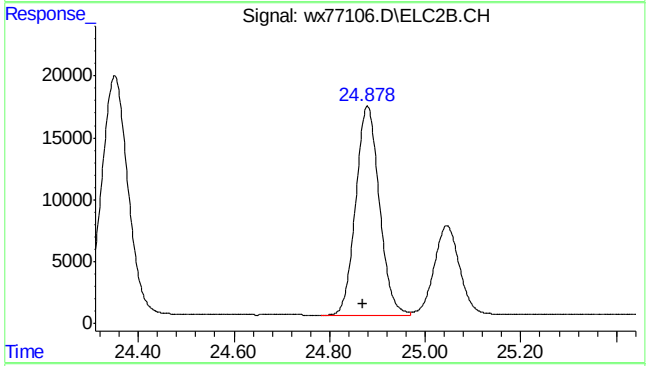
7

SGS ACCUTEST MC46340



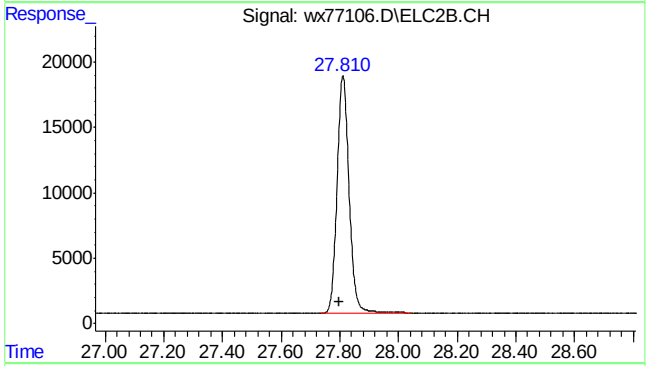
#22 1,3,5-trimethylbenzene #2

R.T.: 24.351 min
Delta R.T.: 0.010 min
Response: 748203
Conc: 43.90 ppb



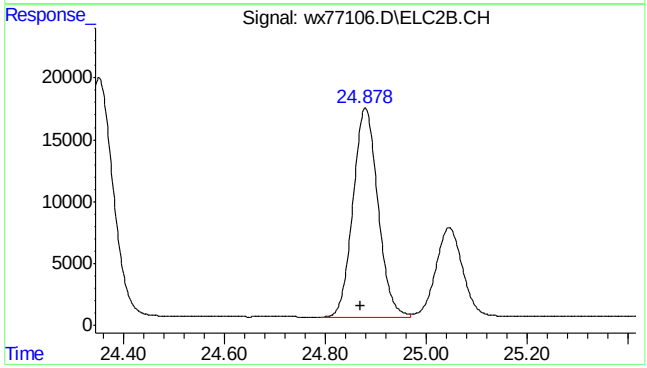
#23 1,2,4-trimethylbenzene #2

R.T.: 24.879 min
Delta R.T.: 0.010 min
Response: 578569
Conc: 45.75 ppb



#24 naphthalene #2

R.T.: 27.810 min
Delta R.T.: 0.013 min
Response: 516173
Conc: 57.95 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 578986
Conc: 45.81 ppb m

7.3.1

7

SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77106.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 2:37 pm
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 15:08:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.811min 58.968 ppb
response 525265

(+) = Expected Retention Time
wx160613vph.M Mon Jun 13 15:09:09 2016

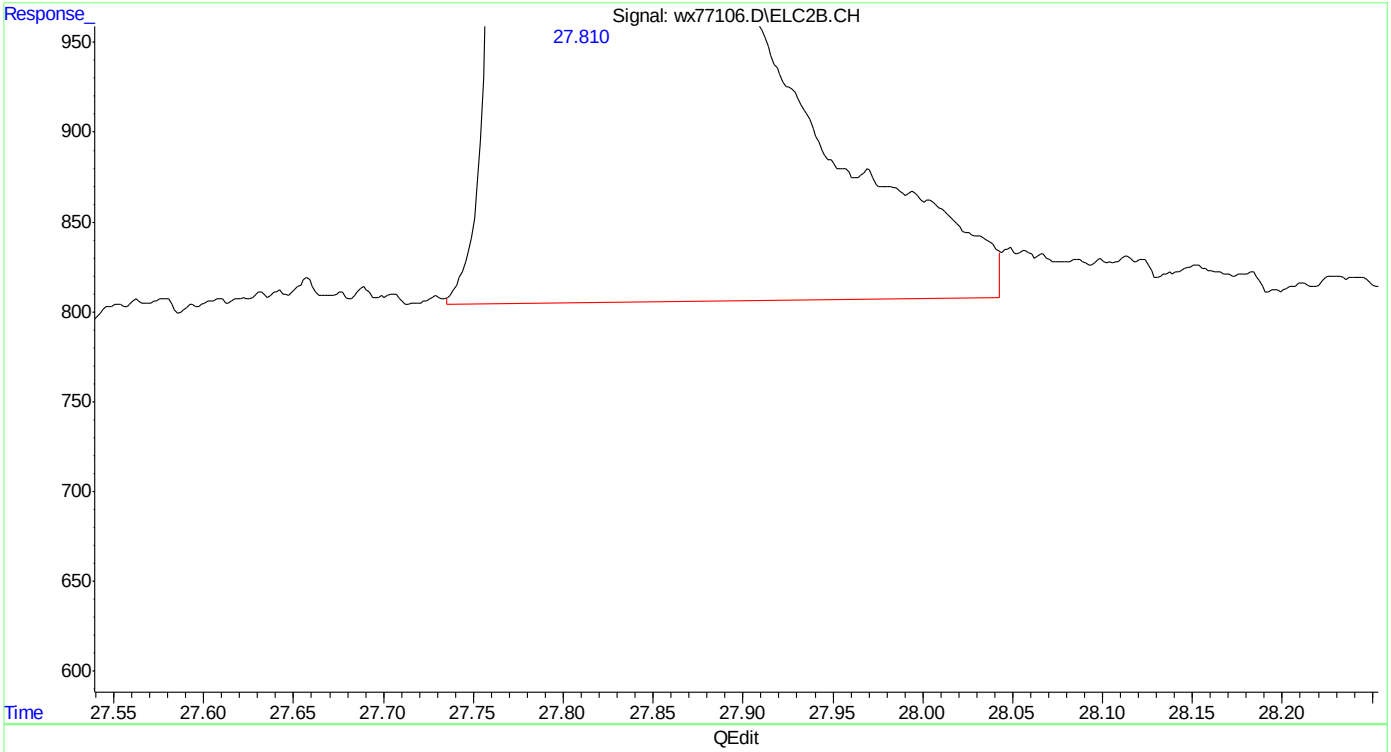
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77106.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 2:37 pm
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 15:08:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.810min 57.947 ppb m
response 516173

(+) = Expected Retention Time
wx160613vph.M Mon Jun 13 15:09:14 2016

SGS ACCUTEST MC46340

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77107.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 3:14 pm
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:38:38 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.753	1355678	47.973 ppb
Spiked Amount 50.000		Recovery =	95.95%
6) s 2,3,4-trifluorotoluene	19.891	1083146	47.267 ppb
Spiked Amount 50.000		Recovery =	94.53%
16) s fluorobenzene #2	14.754	431155	47.289 ppb
Spiked Amount 50.000		Recovery =	94.58%
18) s 2,3,4-trifluorotoluen...	19.890	244421	44.752 ppb
Spiked Amount 50.000		Recovery =	89.50%
Target Compounds			
1) h rt5.5-7	6.100	1059532	44.776 ppb
2) h rt7/10	8.370	1334433	56.394 ppb
3) h rt10/13	13.510	1070171	45.226 ppb
8) h rt20/25	21.600	1422122	39.678 ppb
10) h Decane	23.990	1344201	37.504 ppb
11) h Butylcyclohexane	25.040	1496667	41.758 ppb
14) mtbe #2	9.149	206929	47.429 ppb
15) benzene #2	14.247	661426	46.561 ppb
17) toluene #2	18.756	608825	47.325 ppb
19) ethylbenzene #2	21.897	533715	46.626 ppb
20) m,p-xylene #2	22.045	1298513	93.976 ppb
21) o-xylene #2	22.853	547400	47.131 ppb
22) t 1,3,5-trimethylbenzen...	24.350	757667	44.451 ppb
23) 1,2,4-trimethylbenzen...	24.879	584757	46.244 ppb
24) naphthalene #2	27.809	513634	57.662 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	584726	46.260 ppb

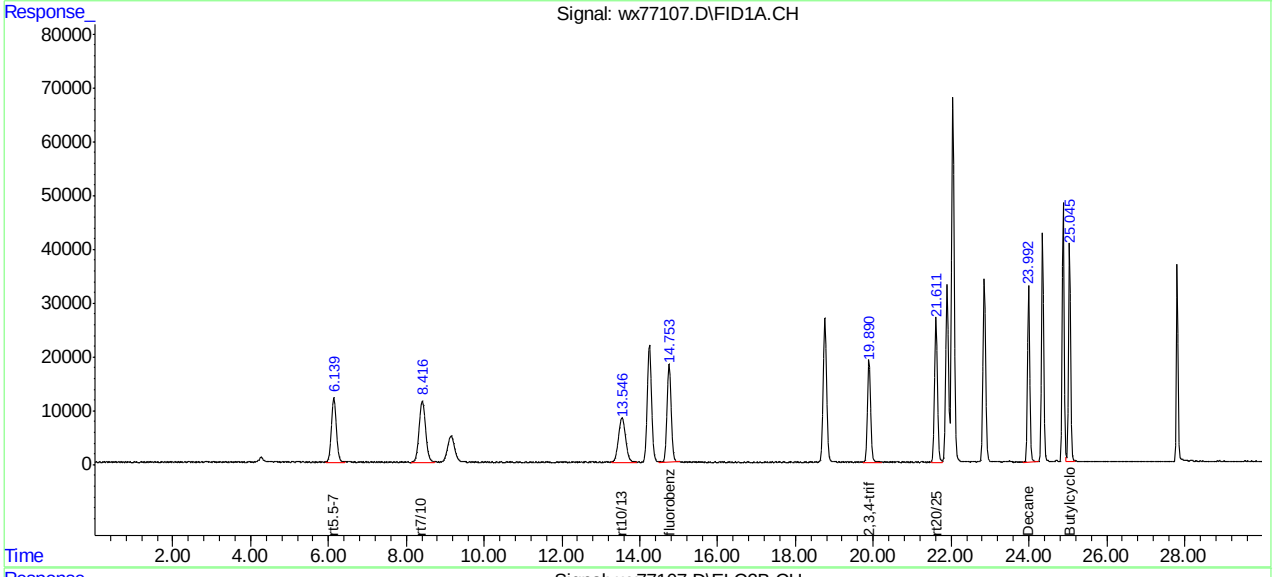
(f)=RT Delta > 1/2 Window (m)=manual int.

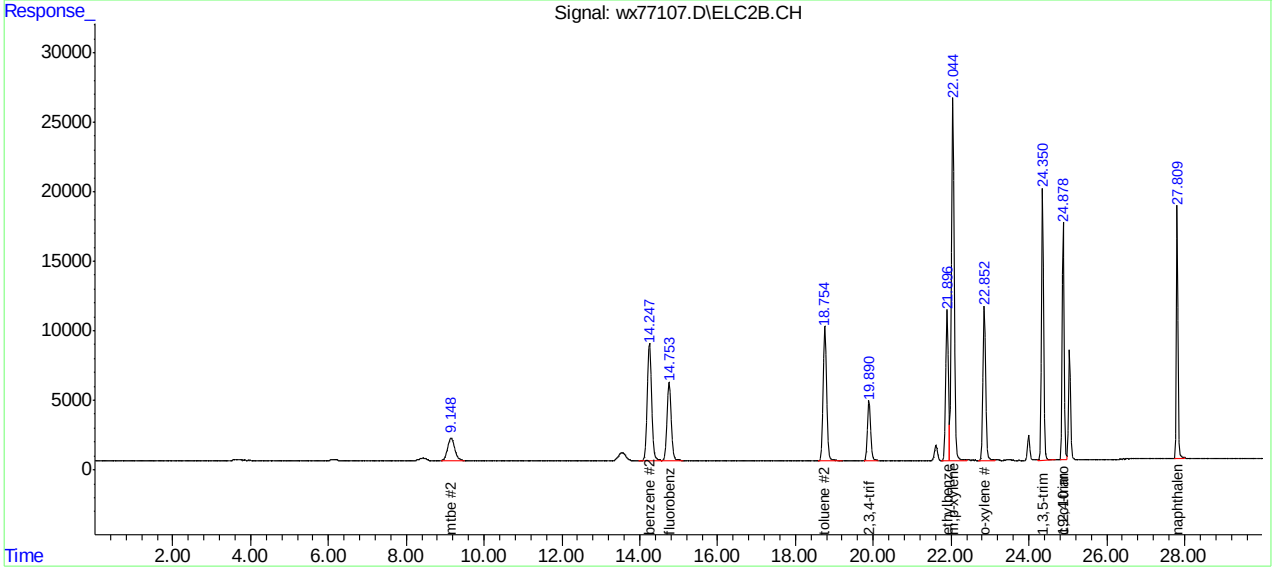
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77107.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 3:14 pm
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

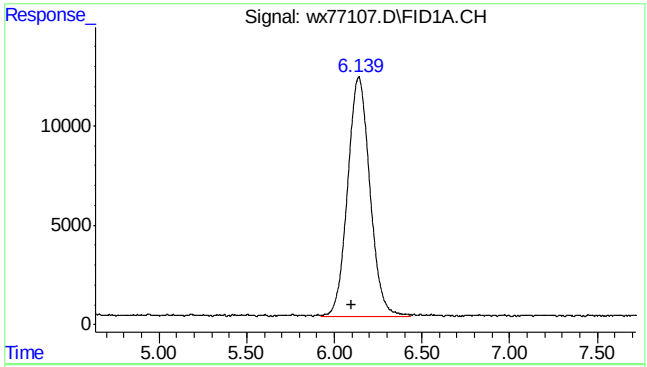
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:38:38 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



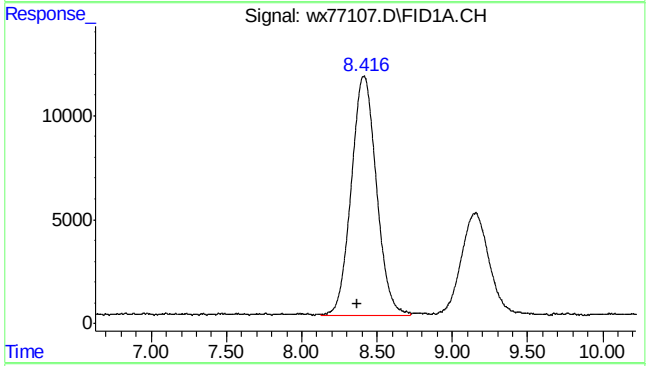


SGS ACCUTEST MC46340



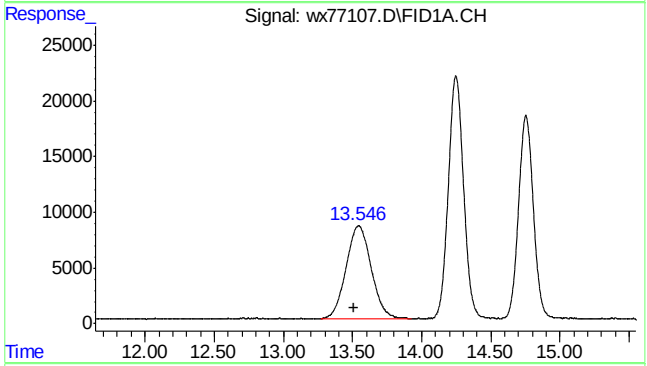
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1059532
Conc: 44.78 ppb m



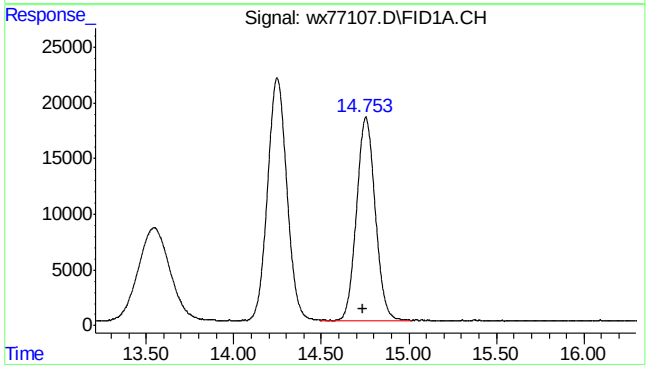
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1334433
Conc: 56.39 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1070171
Conc: 45.23 ppb m



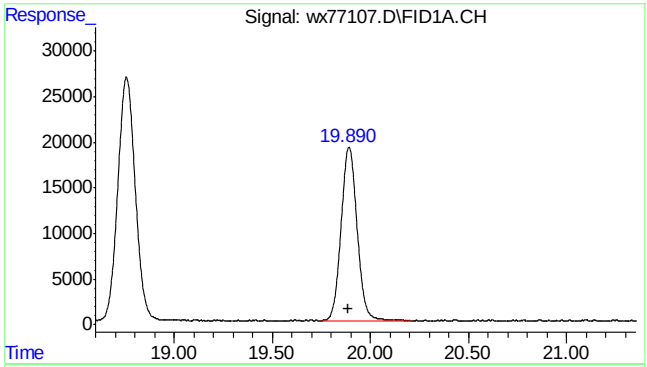
#4 fluorobenzene

R.T.: 14.753 min
Delta R.T.: 0.015 min
Response: 1355678
Conc: 47.97 ppb

7.3.2

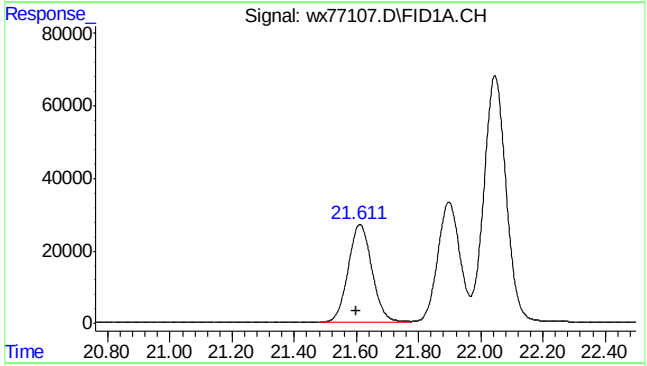
7

SGS ACCUTEST MC46340



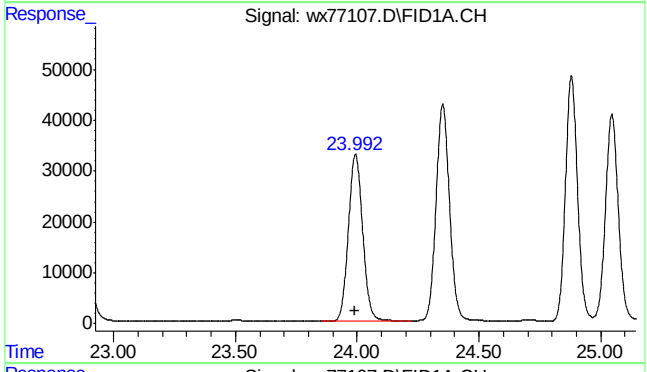
#6 2,3,4-trifluorotoluene

R.T.: 19.891 min
Delta R.T.: 0.001 min
Response: 1083146
Conc: 47.27 ppb



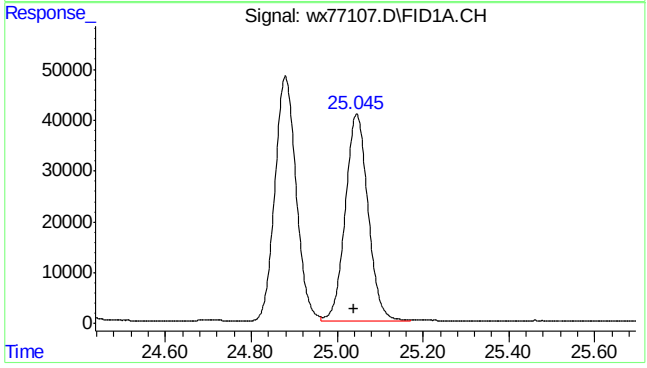
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1422122
Conc: 39.68 ppb m



#10 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1344201
Conc: 37.50 ppb m



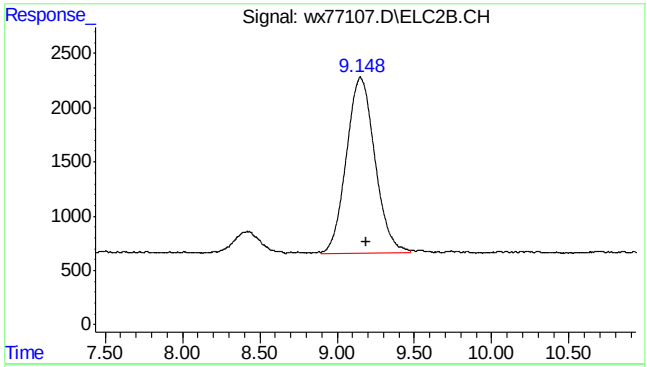
#11 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1496667
Conc: 41.76 ppb m

7.3.2

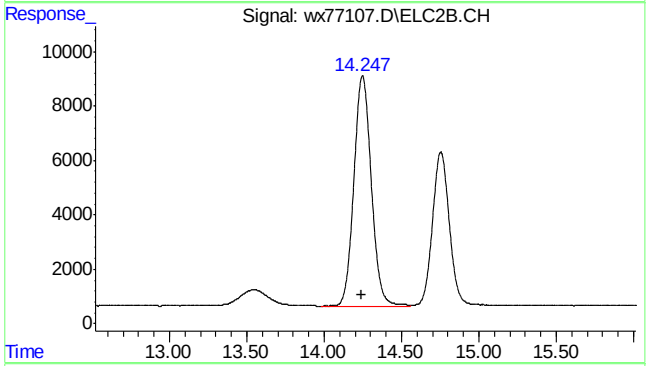
7

SGS ACCUTEST MC46340



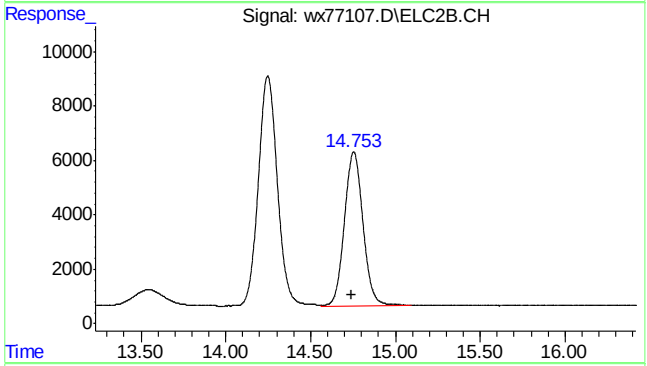
#14 mtbe #2

R.T.: 9.149 min
Delta R.T.: -0.043 min
Response: 206929
Conc: 47.43 ppb



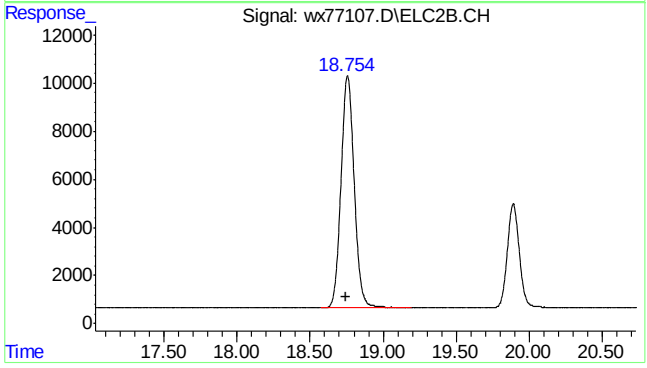
#15 benzene #2

R.T.: 14.247 min
Delta R.T.: 0.002 min
Response: 661426
Conc: 46.56 ppb



#16 fluorobenzene #2

R.T.: 14.754 min
Delta R.T.: 0.010 min
Response: 431155
Conc: 47.29 ppb



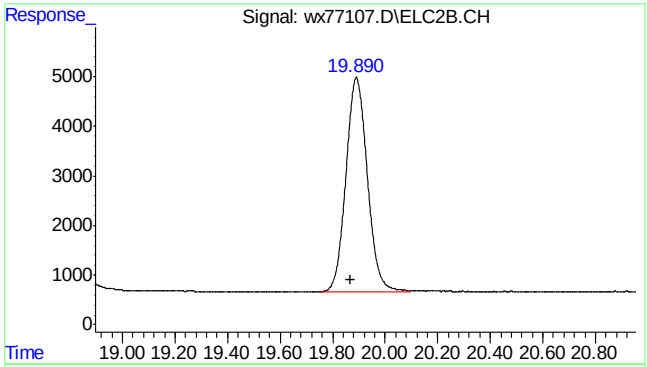
#17 toluene #2

R.T.: 18.756 min
Delta R.T.: 0.007 min
Response: 608825
Conc: 47.32 ppb

7.3.2

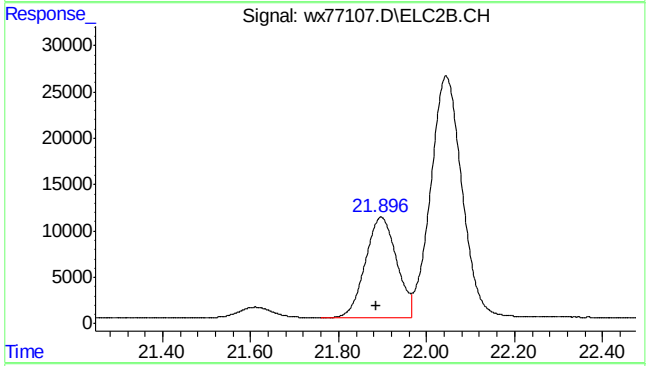
7

SGS ACCUTEST MC46340



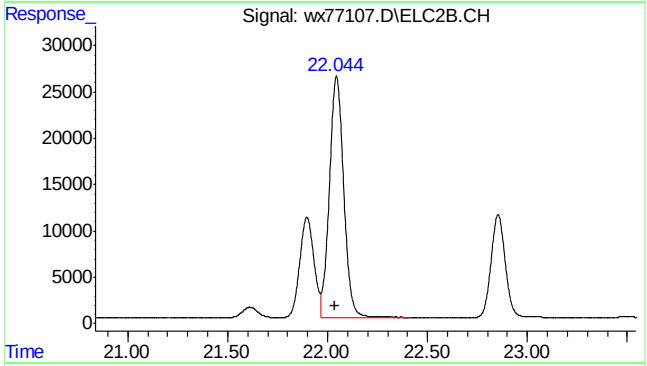
#18 2,3,4-trifluorotoluene #2

R.T.: 19.890 min
Delta R.T.: 0.021 min
Response: 244421
Conc: 44.75 ppb



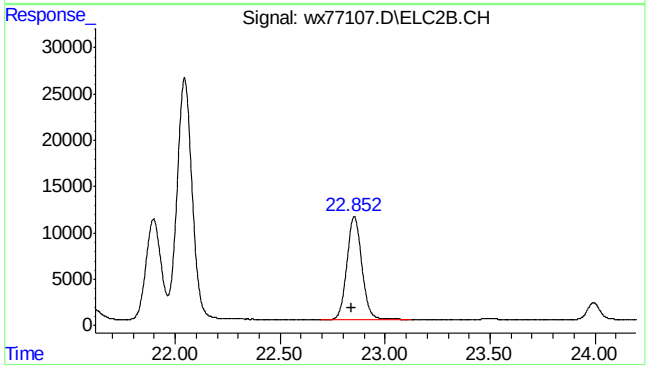
#19 ethylbenzene #2

R.T.: 21.897 min
Delta R.T.: 0.011 min
Response: 533715
Conc: 46.63 ppb



#20 m,p-xylene #2

R.T.: 22.045 min
Delta R.T.: 0.011 min
Response: 1298513
Conc: 93.98 ppb



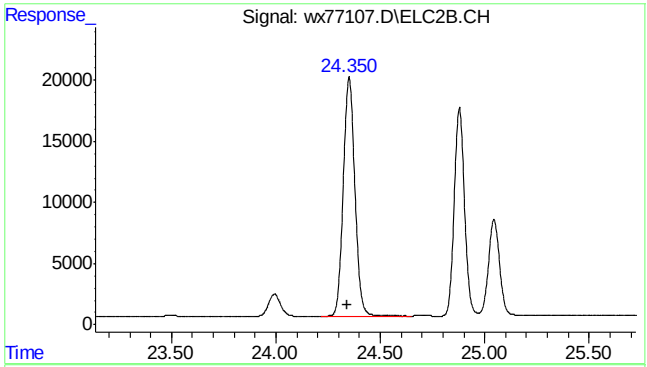
#21 o-xylene #2

R.T.: 22.853 min
Delta R.T.: 0.011 min
Response: 547400
Conc: 47.13 ppb

7.3.2

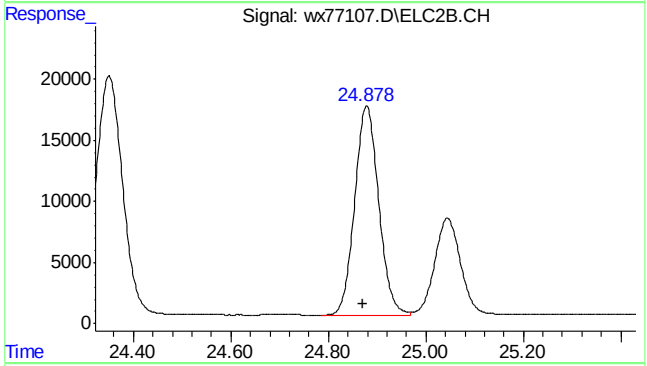
7

SGS ACCUTEST MC46340



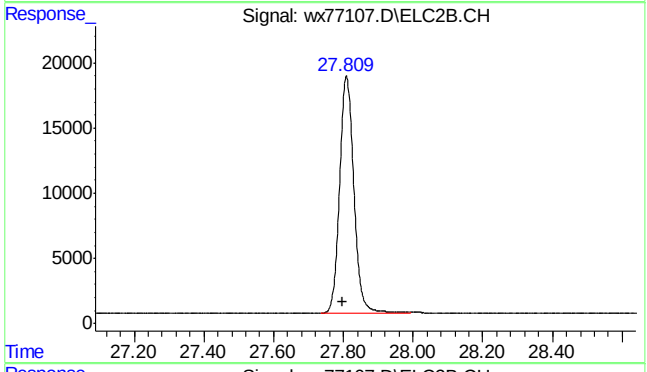
#22 1,3,5-trimethylbenzene #2

R.T.: 24.350 min
Delta R.T.: 0.010 min
Response: 757667
Conc: 44.45 ppb



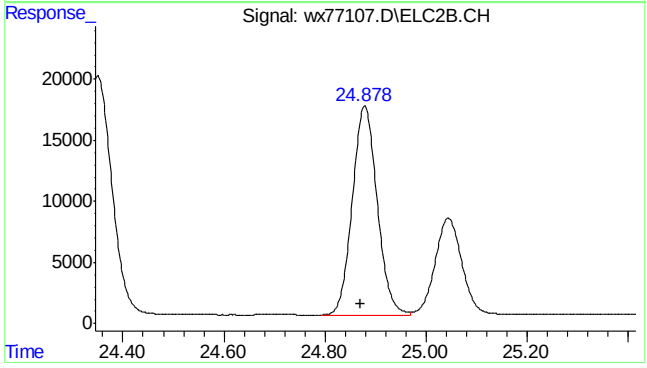
#23 1,2,4-trimethylbenzene #2

R.T.: 24.879 min
Delta R.T.: 0.009 min
Response: 584757
Conc: 46.24 ppb



#24 naphthalene #2

R.T.: 27.809 min
Delta R.T.: 0.012 min
Response: 513634
Conc: 57.66 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 584726
Conc: 46.26 ppb m

7.3.2

7

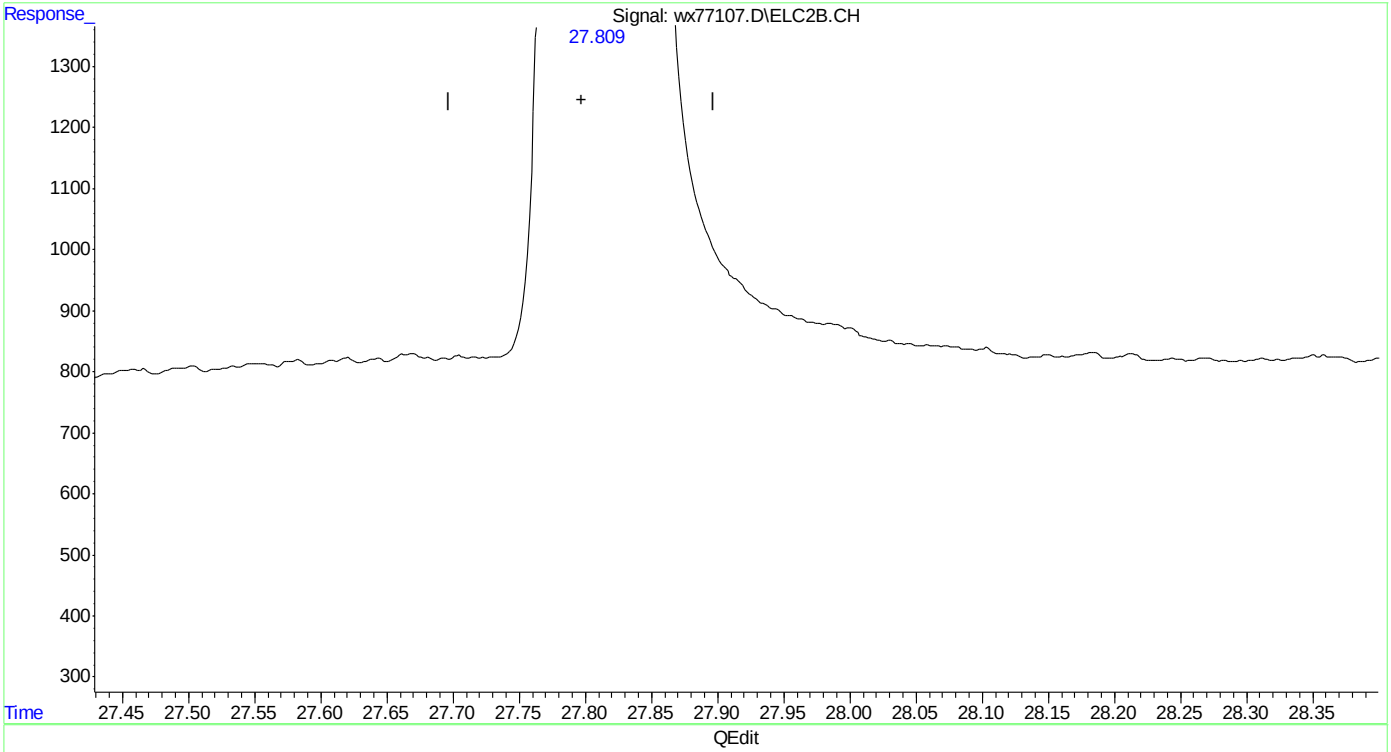
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77107.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 3:14 pm
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:25 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.810min 59.802 ppb
response 532700

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 06:38:27 2016

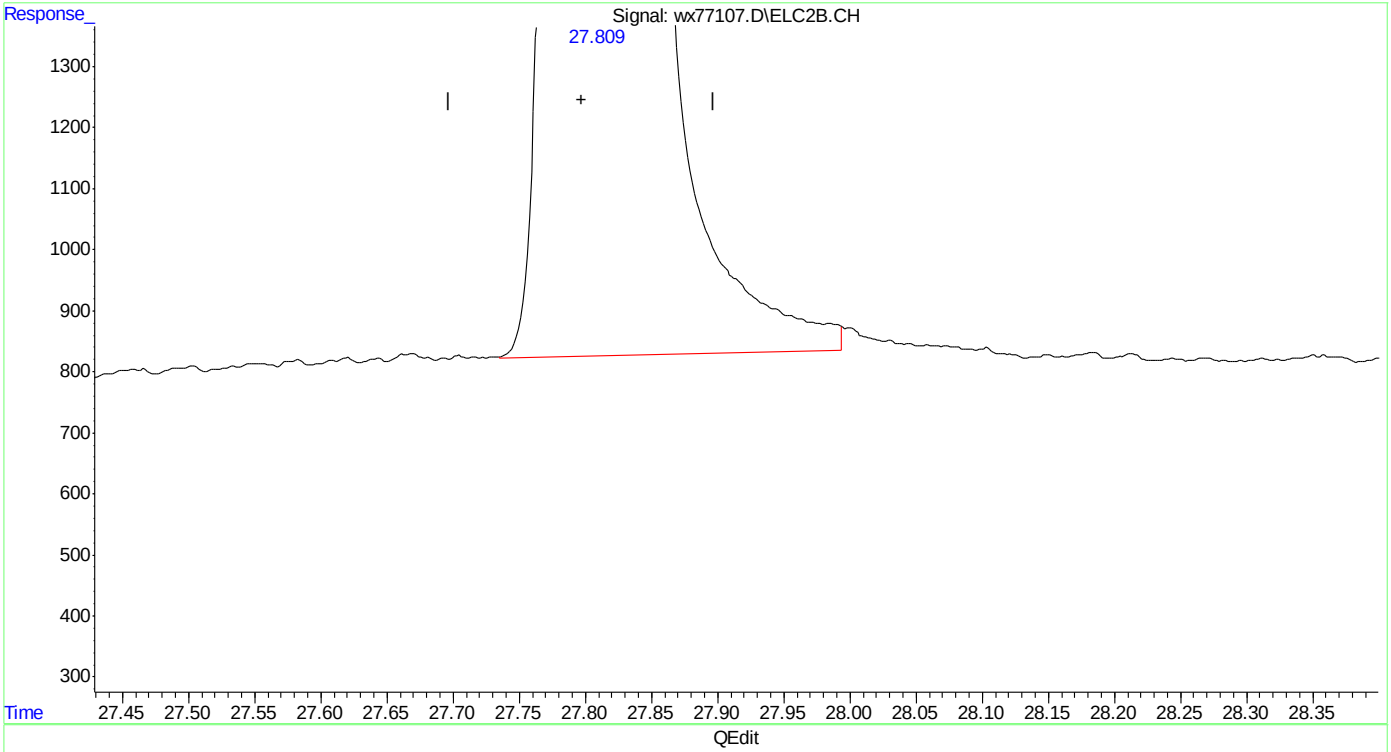
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160613\
Data File : wx77107.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 3:14 pm
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:22:25 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



QEdit

(24) naphthalene #2
27.809min 57.662 ppb m
response 513634

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 06:38:33 2016

SGS ACCUTEST MC46340

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77125.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:40 am
Operator : tonyf
Sample : mc46340-8ms,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:37:39 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.753	1309426	46.336 ppb
Spiked Amount 50.000		Recovery =	92.67%
6) s 2,3,4-trifluorotoluene	19.891	1037462	45.273 ppb
Spiked Amount 50.000		Recovery =	90.55%
16) s fluorobenzene #2	14.752	406781	44.616 ppb
Spiked Amount 50.000		Recovery =	89.23%
18) s 2,3,4-trifluorotoluen...	19.891	233086	42.676 ppb
Spiked Amount 50.000		Recovery =	85.35%
Target Compounds			
1) h rt5.5-7	6.100	1085973	45.894 ppb
2) h rt7/10	8.370	2118941	89.547 ppb
3) h rt10/13	13.510	4710268	199.058 ppb
8) h rt20/25	21.600	14095690	393.275 ppb
14) mtbe #2	9.146	209370	47.989 ppb
15) benzene #2	14.245	631523	44.456 ppb
17) toluene #2	18.755	573353	44.568 ppb
19) ethylbenzene #2	21.897	509167	44.481 ppb
20) m,p-xylene #2	22.045	1227616	88.845 ppb
21) o-xylene #2	22.853	518708	44.660 ppb
23) 1,2,4-trimethylbenzen...	24.879	549871	43.485 ppb
24) naphthalene #2	27.810	503869	56.566 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	1715727	135.737 ppb

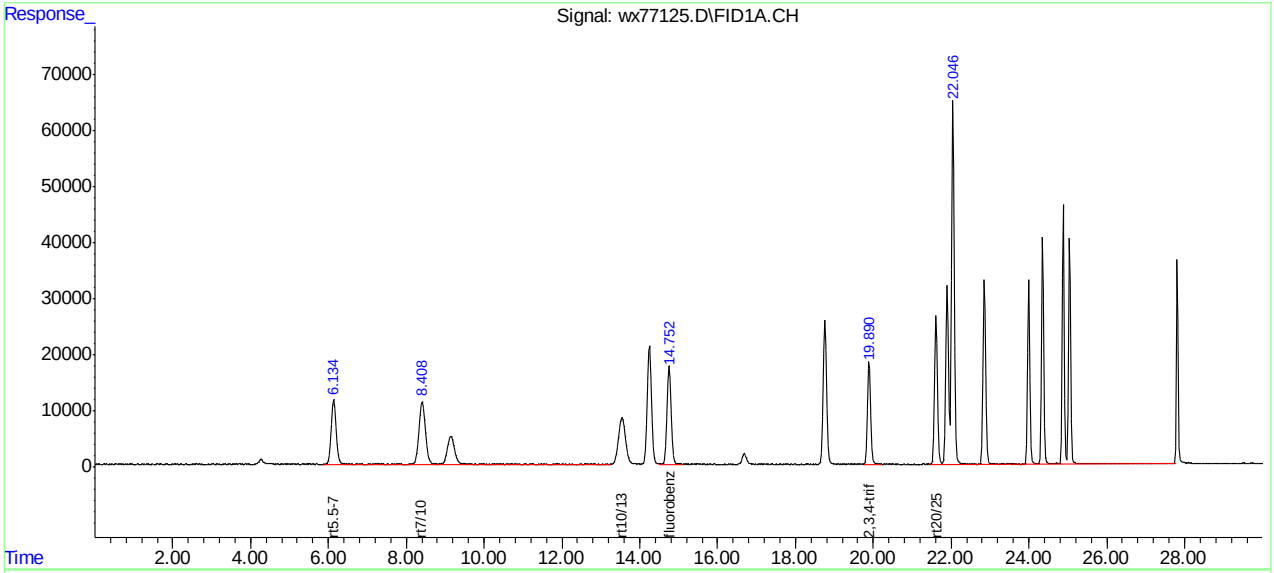
(f)=RT Delta > 1/2 Window (m)=manual int.

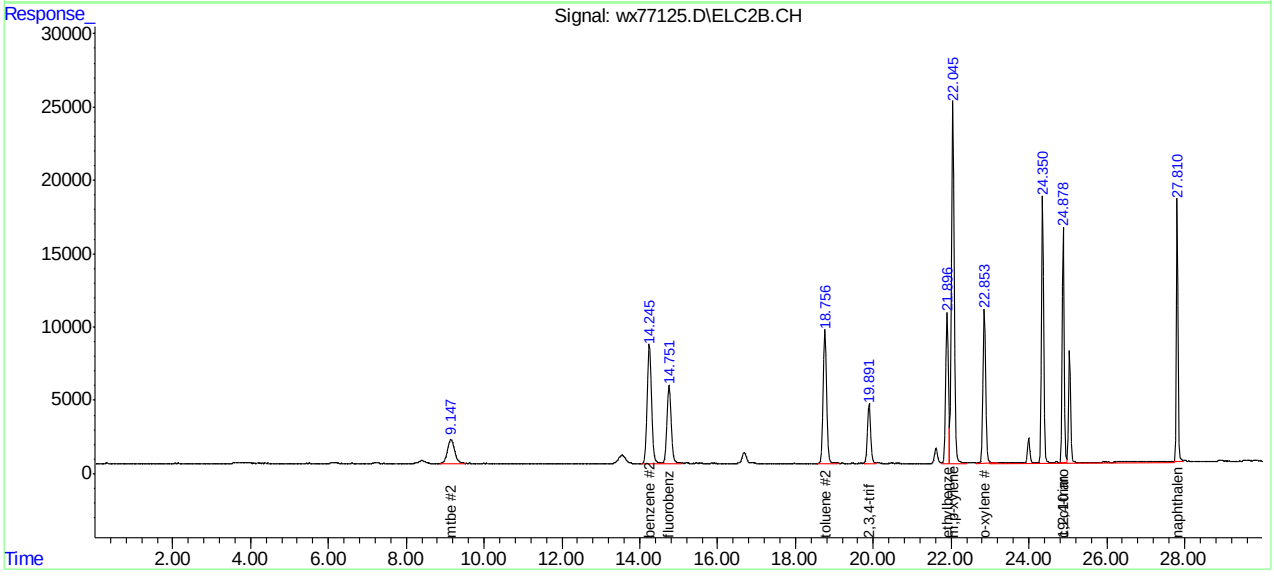
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77125.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:40 am
Operator : tonyf
Sample : mc46340-8ms,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

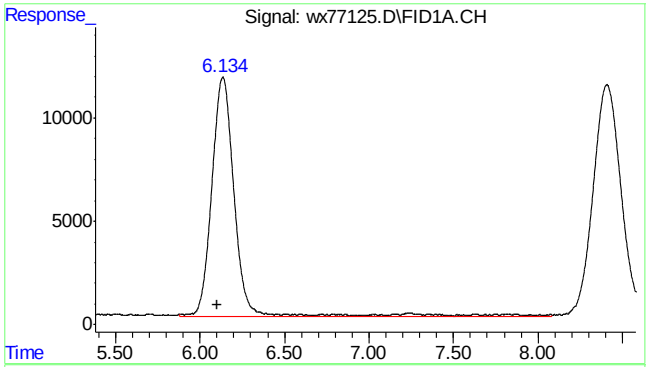
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:37:39 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



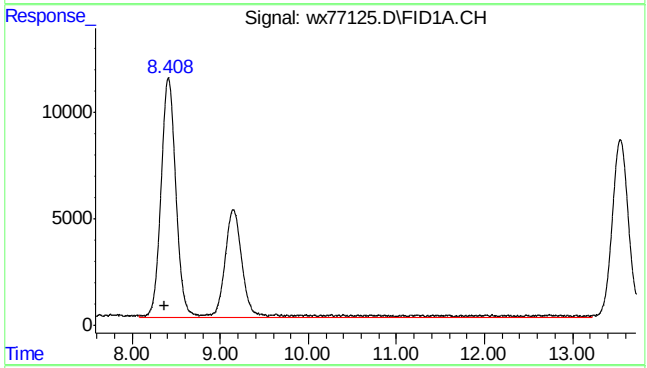


SGS ACCUTEST MC46340



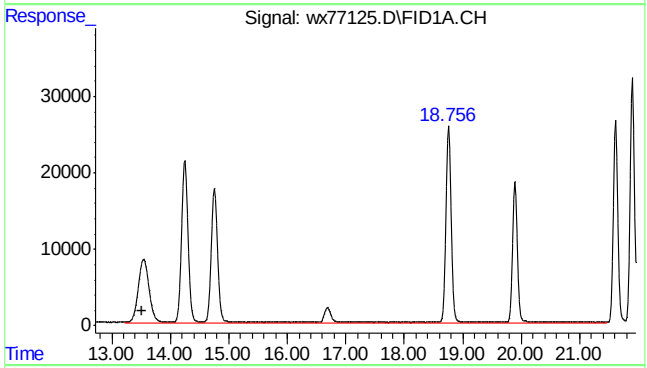
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1085973
Conc: 45.89 ppb m



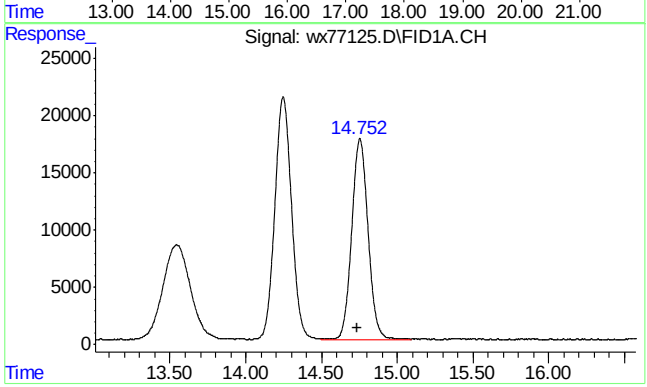
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 2118941
Conc: 89.55 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 4710268
Conc: 199.06 ppb m



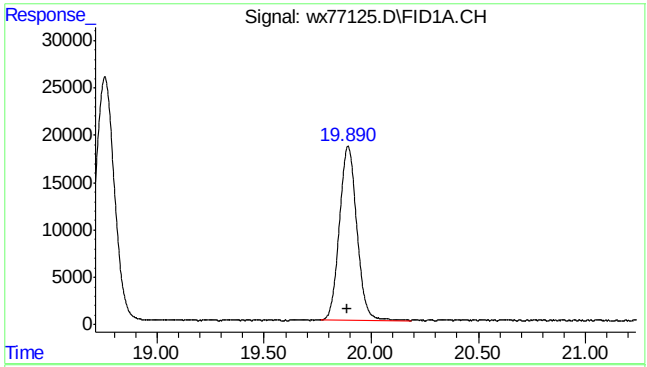
#4 fluorobenzene

R.T.: 14.753 min
Delta R.T.: 0.014 min
Response: 1309426
Conc: 46.34 ppb

7.4.1

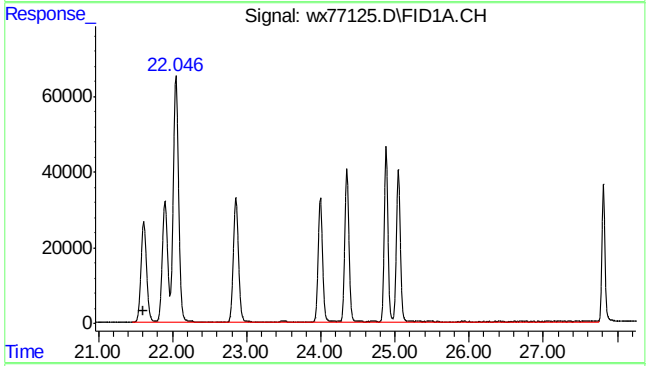
7

SGS ACCUTEST MC46340



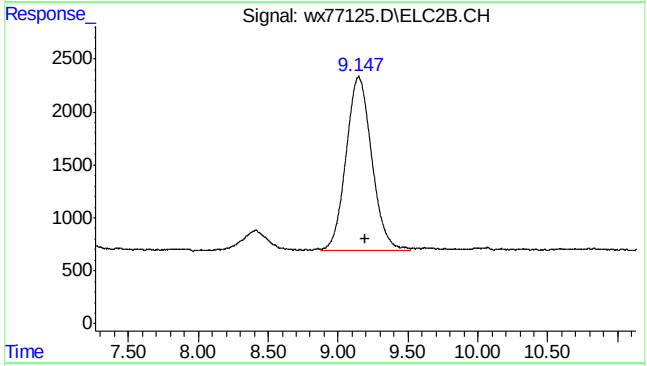
#6 2,3,4-trifluorotoluene

R.T.: 19.891 min
Delta R.T.: 0.001 min
Response: 1037462
Conc: 45.27 ppb



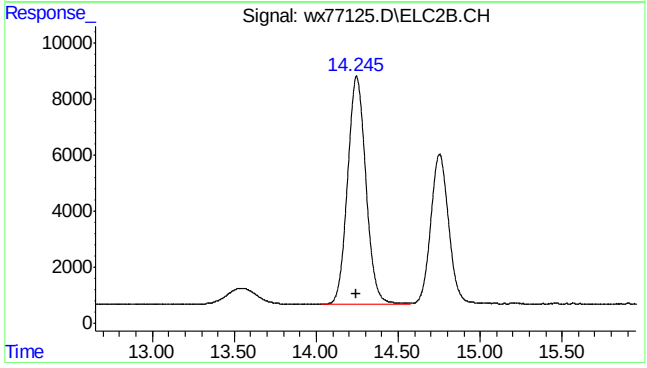
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 14095690
Conc: 393.27 ppb m



#14 mtbe #2

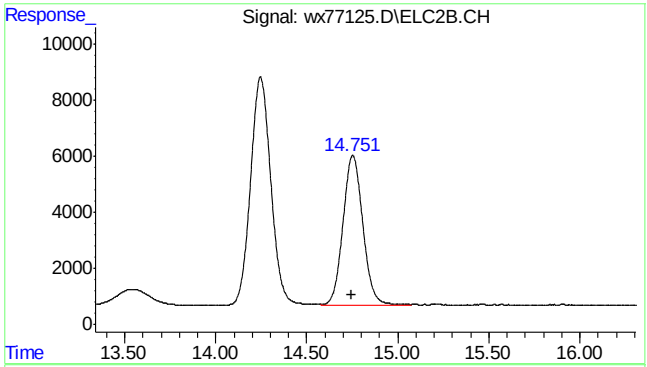
R.T.: 9.146 min
Delta R.T.: -0.046 min
Response: 209370
Conc: 47.99 ppb



#15 benzene #2

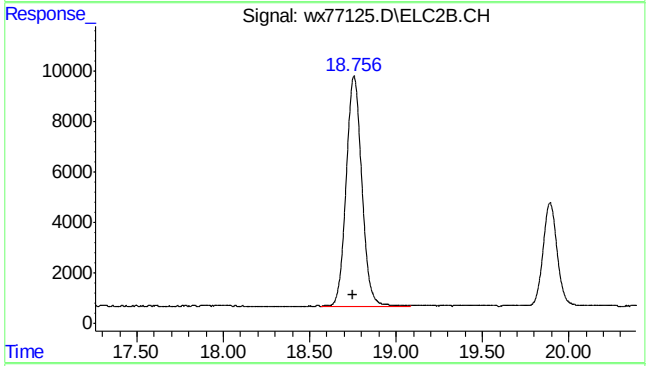
R.T.: 14.245 min
Delta R.T.: 0.000 min
Response: 631523
Conc: 44.46 ppb

SGS ACCUTEST MC46340



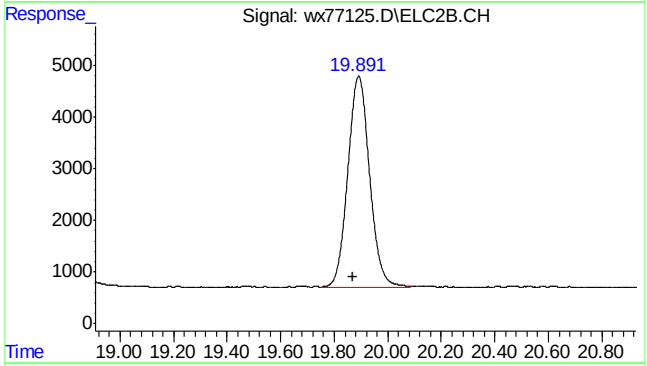
#16 fluorobenzene #2

R.T.: 14.752 min
Delta R.T.: 0.008 min
Response: 406781
Conc: 44.62 ppb



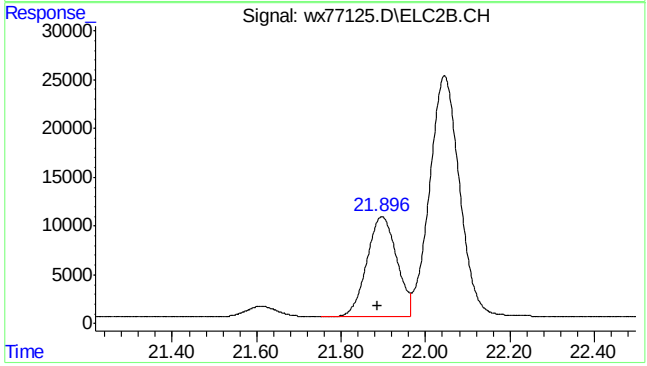
#17 toluene #2

R.T.: 18.755 min
Delta R.T.: 0.006 min
Response: 573353
Conc: 44.57 ppb



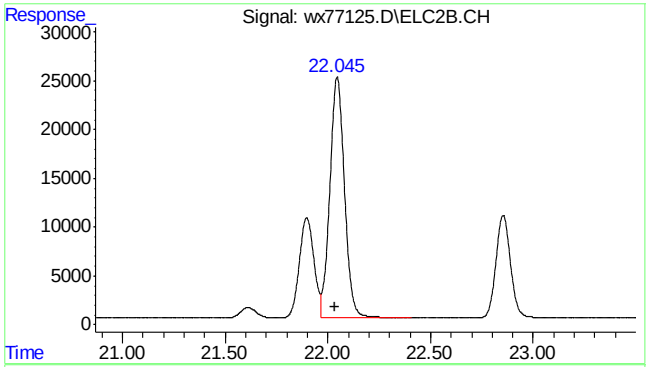
#18 2,3,4-trifluorotoluene #2

R.T.: 19.891 min
Delta R.T.: 0.022 min
Response: 233086
Conc: 42.68 ppb



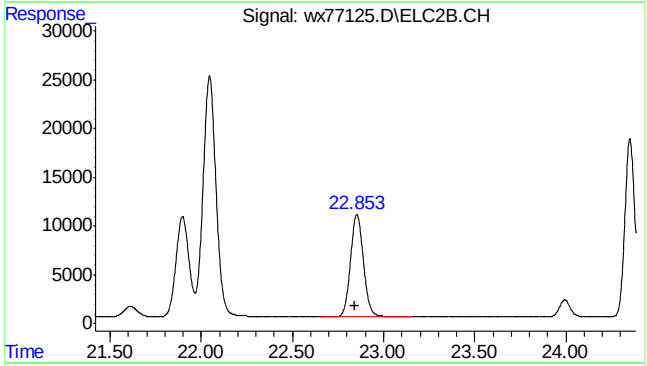
#19 ethylbenzene #2

R.T.: 21.897 min
Delta R.T.: 0.011 min
Response: 509167
Conc: 44.48 ppb



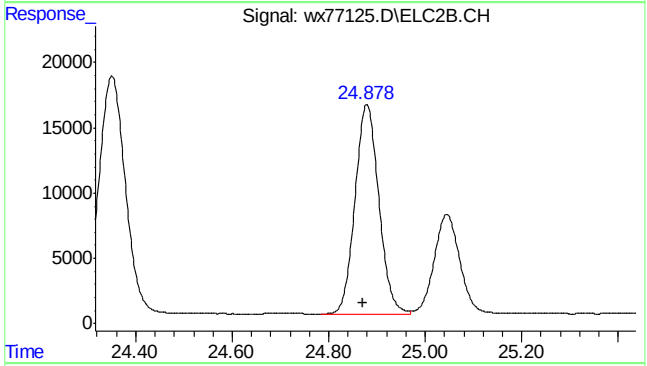
#20 m,p-xylene #2

R.T.: 22.045 min
Delta R.T.: 0.011 min
Response: 1227616
Conc: 88.85 ppb



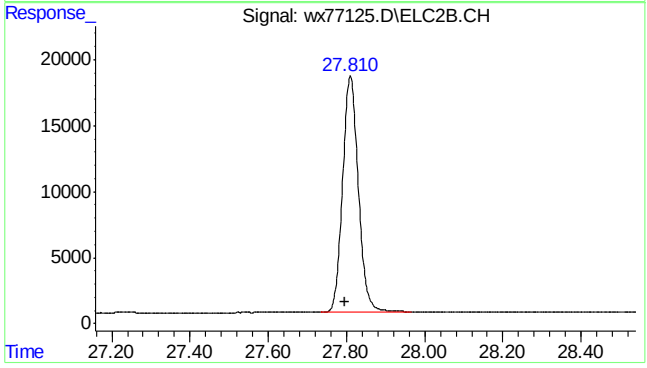
#21 o-xylene #2

R.T.: 22.853 min
Delta R.T.: 0.011 min
Response: 518708
Conc: 44.66 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 24.879 min
Delta R.T.: 0.009 min
Response: 549871
Conc: 43.48 ppb



#24 naphthalene #2

R.T.: 27.810 min
Delta R.T.: 0.013 min
Response: 503869
Conc: 56.57 ppb m

7.4.1

7

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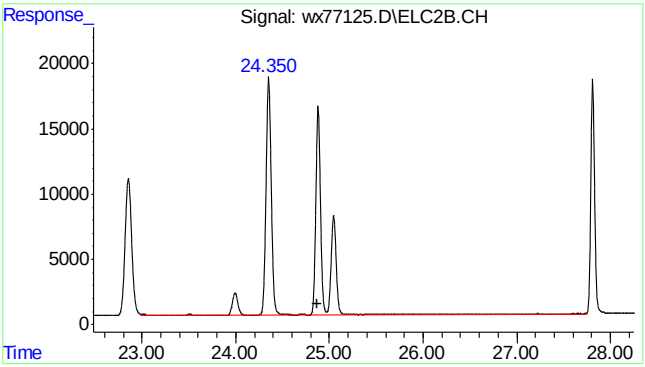


#25 c9-c10 arom as 1,2,4-tmb

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 1715727
Conc: 135.74 ppb m

7.4.1

7

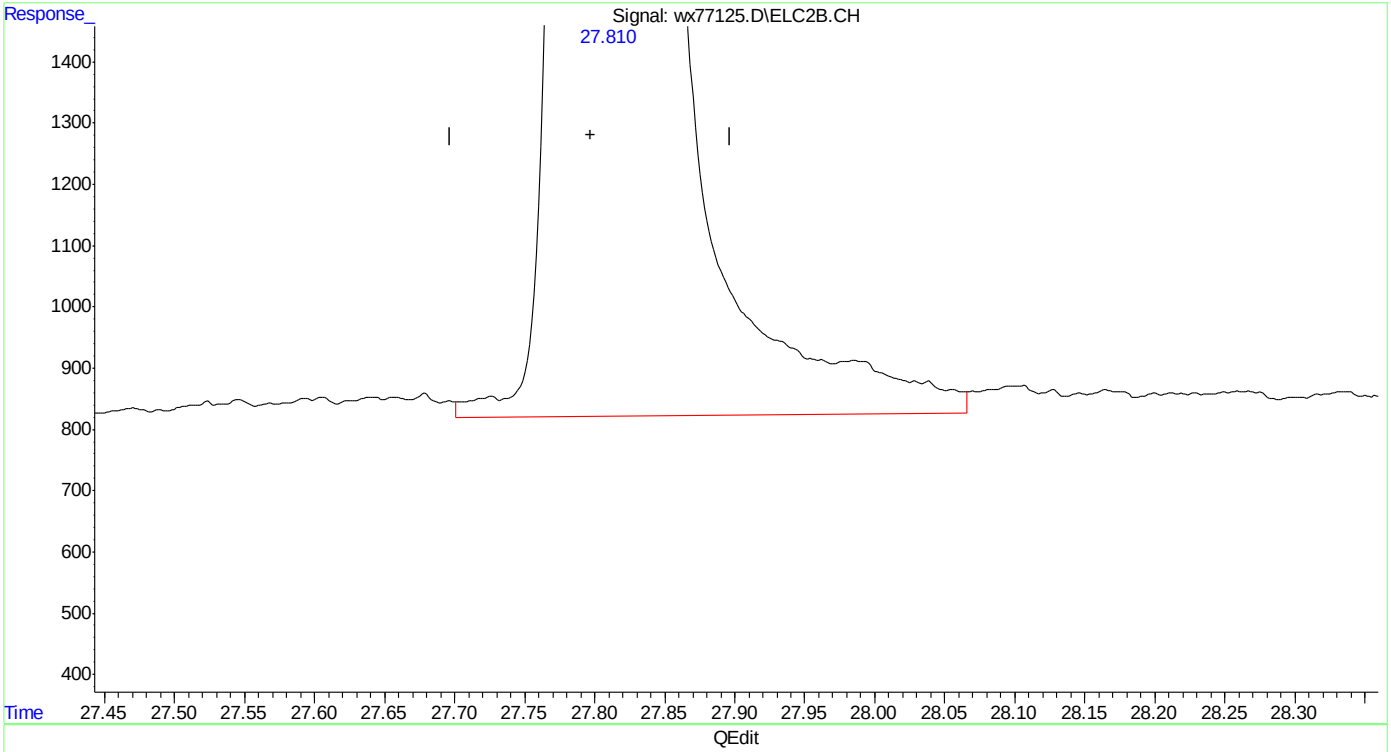
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77125.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 14 Jun 2016   2:40 am
Operator  : tonyf
Sample    : mc46340-8ms,w,vmavph,00
Misc      : gc26361,gwx3791,,,,5,1
ALS Vial  : 21   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:20 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.810min 57.485 ppb

response 512056

(+) = Expected Retention Time

wx160613vph.M Tue Jun 14 10:37:32 2016

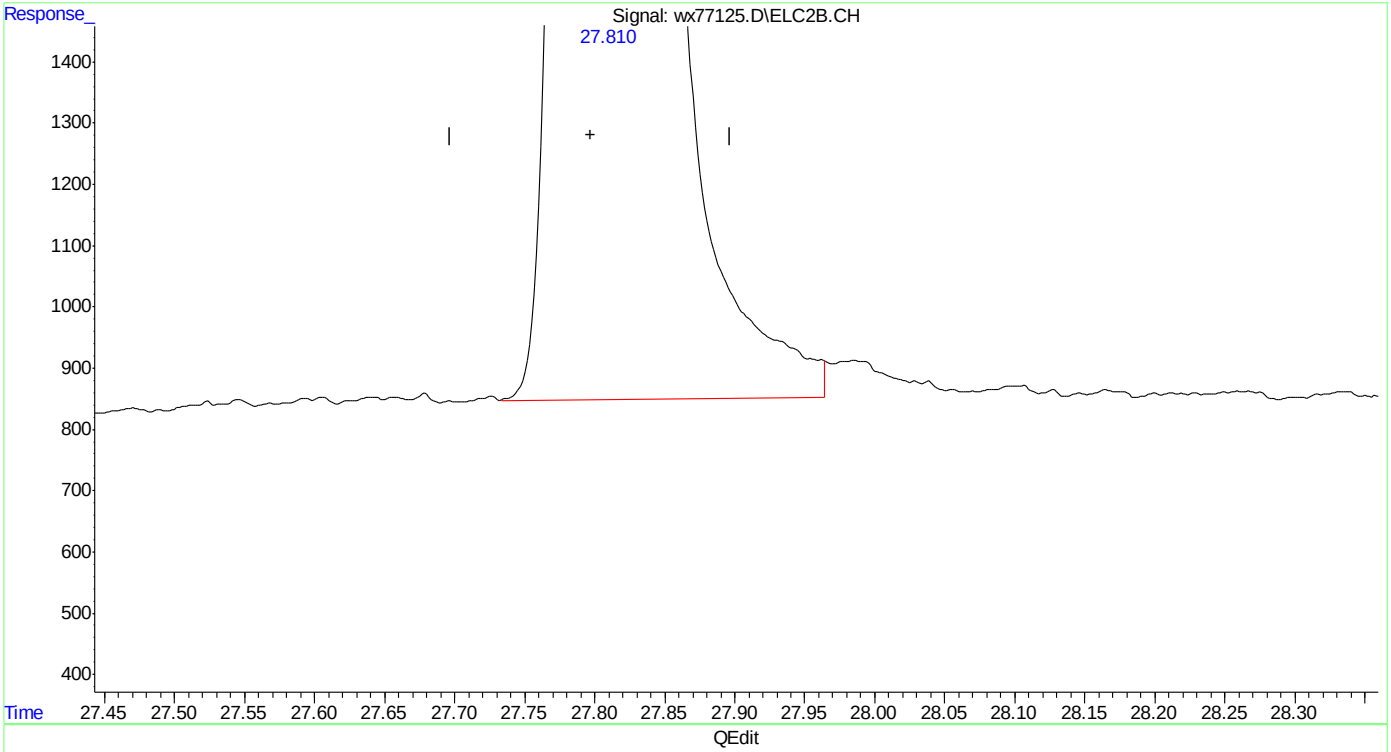
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77125.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 2:40 am
Operator : tonyf
Sample : mc46340-8ms,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:20 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.810min 56.566 ppb m
response 503869

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77126.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 3:18 am
Operator : tonyf
Sample : mc46340-8msd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:38:30 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.753	1354143	47.918	ppb	
Spiked Amount 50.000		Recovery =	95.84%		
6) s 2,3,4-trifluorotoluene	19.892	1090373	47.582	ppb	
Spiked Amount 50.000		Recovery =	95.16%		
16) s fluorobenzene #2	14.753	416596	45.693	ppb	
Spiked Amount 50.000		Recovery =	91.39%		
18) s 2,3,4-trifluorotoluen...	19.891	241184	44.159	ppb	
Spiked Amount 50.000		Recovery =	88.32%		
Target Compounds					
1) h rt5.5-7	6.100	1088430	45.997	ppb	
2) h rt7/10	8.370	2111852	89.248	ppb	
3) h rt10/13	13.510	4776304	201.848	ppb	
8) h rt20/25	21.600	14172327	395.413	ppb	
14) mtbe #2	9.148	210361	48.216	ppb	m
15) benzene #2	14.248	635349	44.725	ppb	
17) toluene #2	18.756	580112	45.093	ppb	
19) ethylbenzene #2	21.897	514364	44.935	ppb	
20) m,p-xylene #2	22.045	1237904	89.590	ppb	
21) o-xylene #2	22.853	524811	45.186	ppb	
23) 1,2,4-trimethylbenzen...	24.879	555465	43.927	ppb	
24) naphthalene #2	27.809	505048	56.698	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	1725136	136.481	ppb	

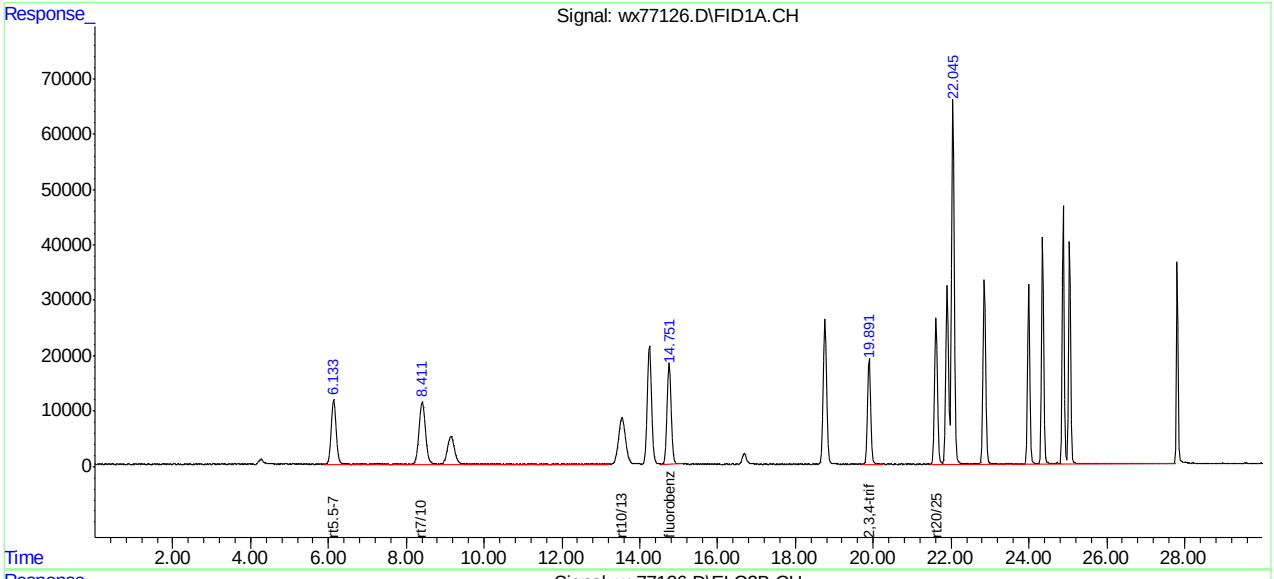
(f)=RT Delta > 1/2 Window (m)=manual int.

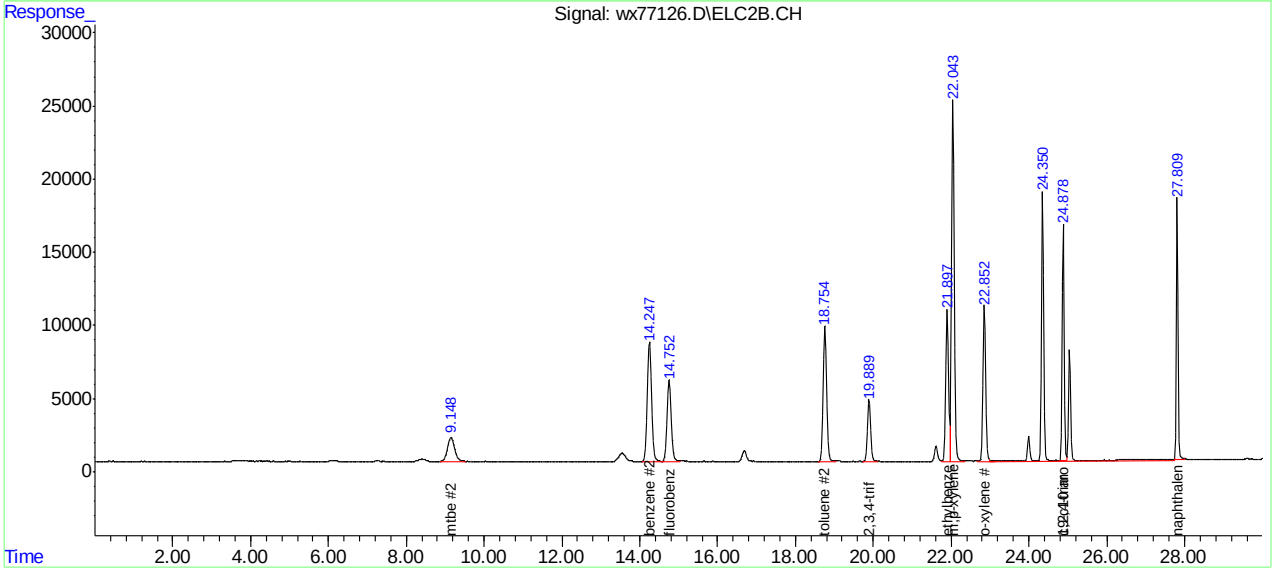
Quantitation Report (QT Reviewed)

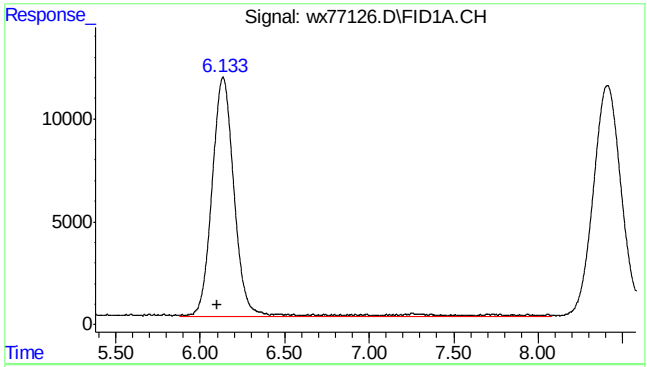
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77126.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 3:18 am
Operator : tonyf
Sample : mc46340-8msd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 10:38:30 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

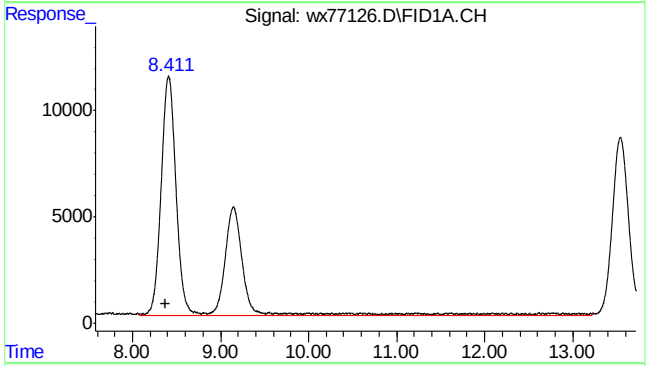






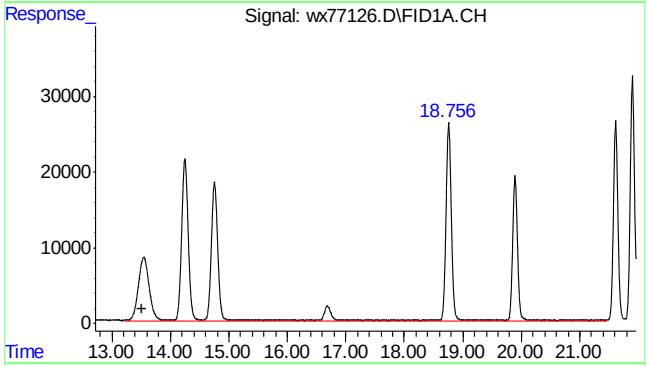
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1088430
Conc: 46.00 ppb m



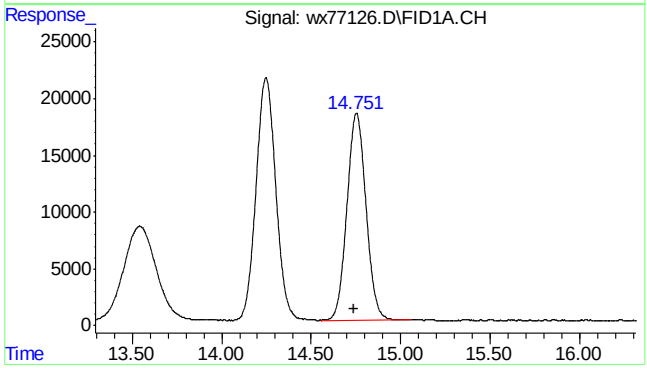
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 2111852
Conc: 89.25 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 4776304
Conc: 201.85 ppb m



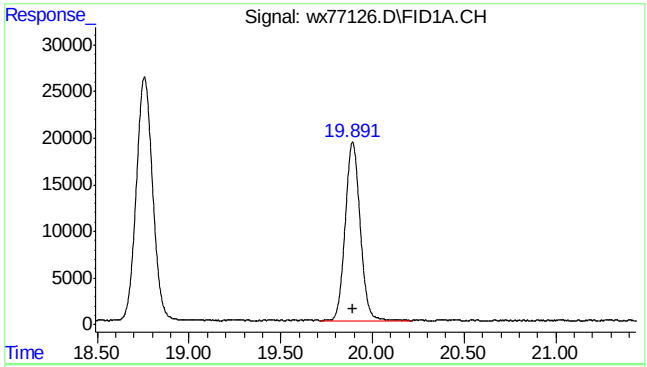
#4 fluorobenzene

R.T.: 14.753 min
Delta R.T.: 0.015 min
Response: 1354143
Conc: 47.92 ppb

7.4.2

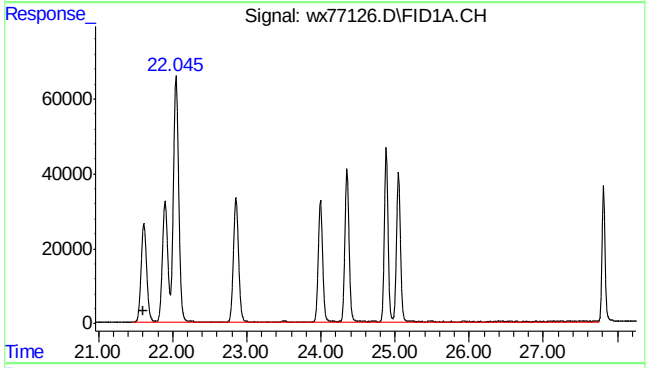
7

SGS ACCUTEST MC46340



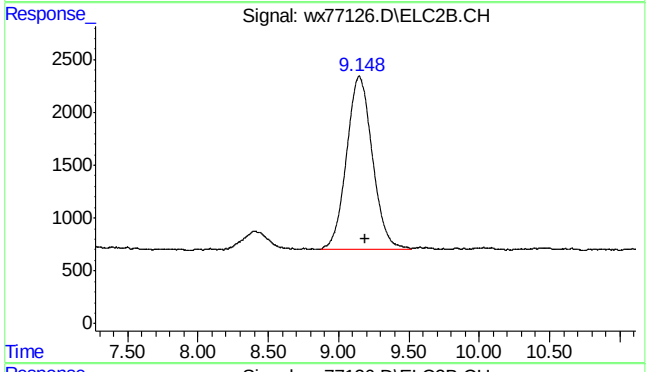
#6 2,3,4-trifluorotoluene

R.T.: 19.892 min
Delta R.T.: 0.002 min
Response: 1090373
Conc: 47.58 ppb



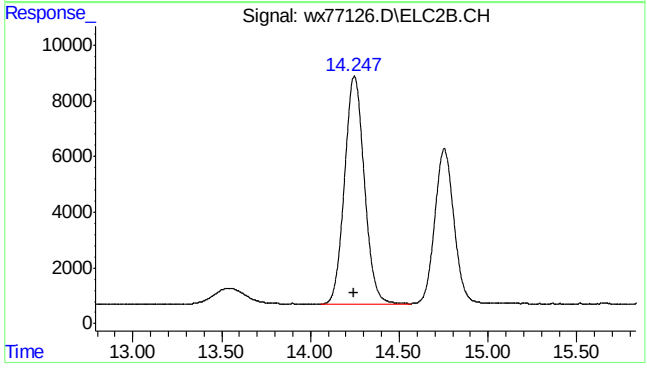
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 14172327
Conc: 395.41 ppb m



#14 mtbe #2

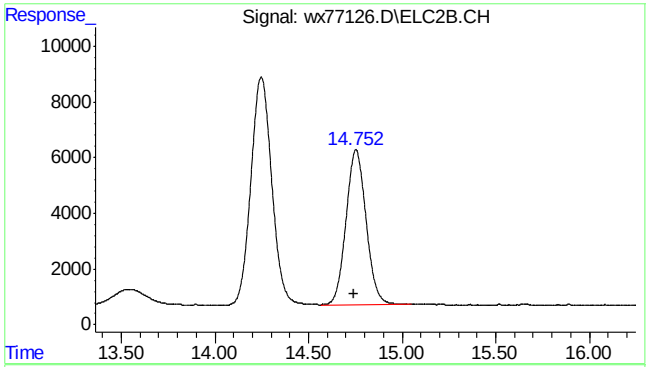
R.T.: 9.148 min
Delta R.T.: -0.043 min
Response: 210361
Conc: 48.22 ppb m



#15 benzene #2

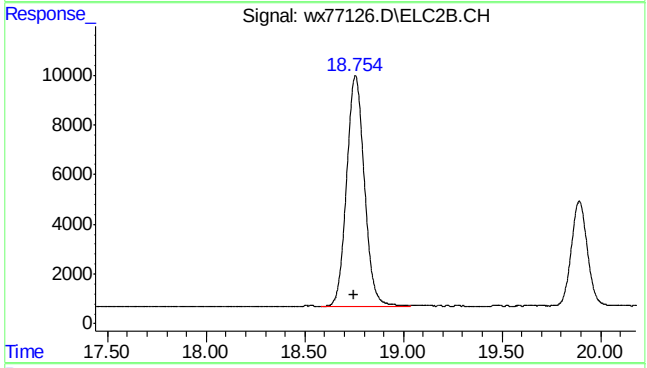
R.T.: 14.248 min
Delta R.T.: 0.003 min
Response: 635349
Conc: 44.73 ppb

SGS ACCUTEST MC46340



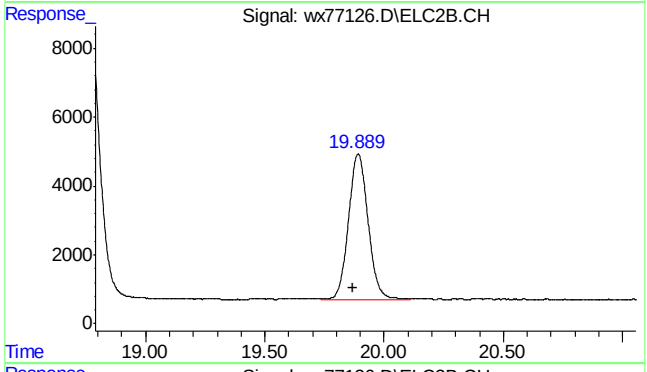
#16 fluorobenzene #2

R.T.: 14.753 min
Delta R.T.: 0.009 min
Response: 416596
Conc: 45.69 ppb



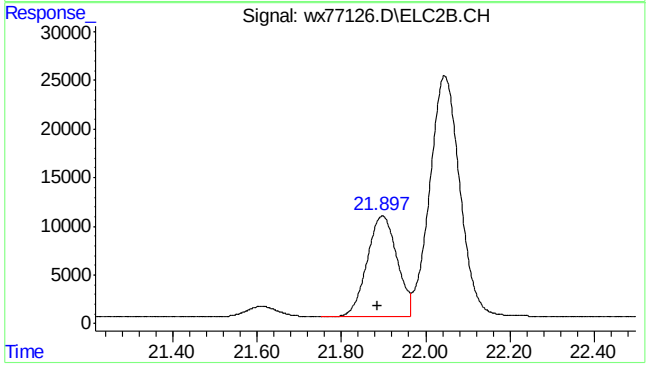
#17 toluene #2

R.T.: 18.756 min
Delta R.T.: 0.008 min
Response: 580112
Conc: 45.09 ppb



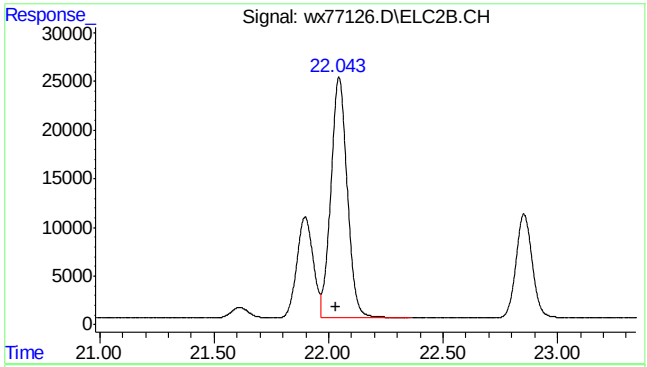
#18 2,3,4-trifluorotoluene #2

R.T.: 19.891 min
Delta R.T.: 0.022 min
Response: 241184
Conc: 44.16 ppb



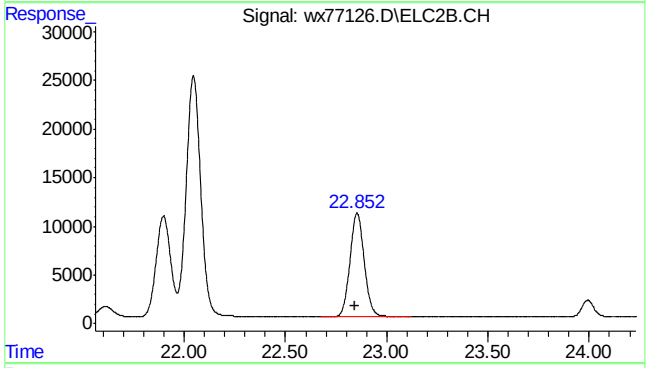
#19 ethylbenzene #2

R.T.: 21.897 min
Delta R.T.: 0.012 min
Response: 514364
Conc: 44.94 ppb



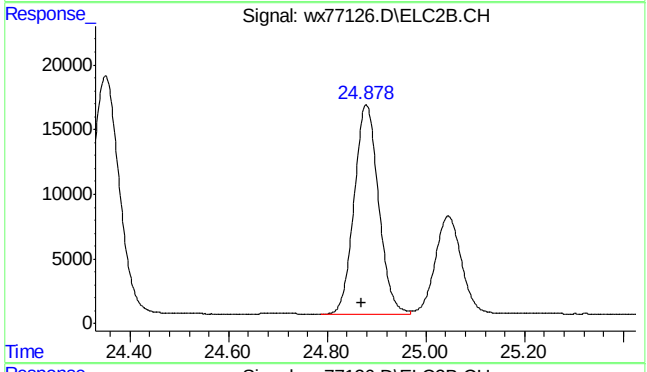
#20 m,p-xylene #2

R.T.: 22.045 min
Delta R.T.: 0.011 min
Response: 1237904
Conc: 89.59 ppb



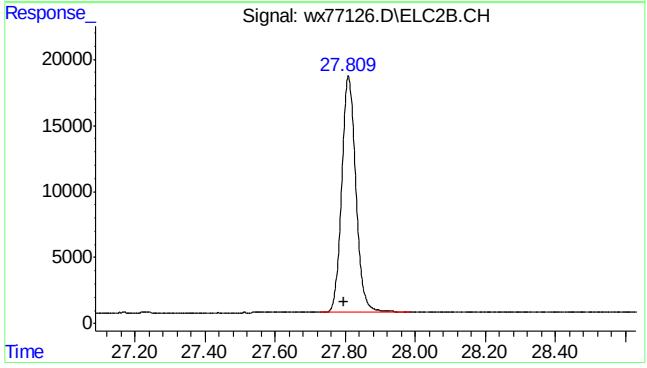
#21 o-xylene #2

R.T.: 22.853 min
Delta R.T.: 0.011 min
Response: 524811
Conc: 45.19 ppb



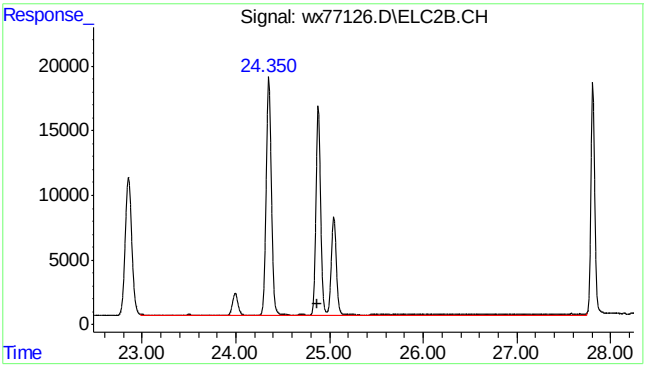
#23 1,2,4-trimethylbenzene #2

R.T.: 24.879 min
Delta R.T.: 0.009 min
Response: 555465
Conc: 43.93 ppb



#24 naphthalene #2

R.T.: 27.809 min
Delta R.T.: 0.012 min
Response: 505048
Conc: 56.70 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 1725136
Conc: 136.48 ppb m

7.4.2

7

SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77126.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 3:18 am
Operator : tonyf
Sample : mc46340-8msd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:23 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(14) mtbe #2
9.147min 47.618 ppb
response 207752

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:38:12 2016

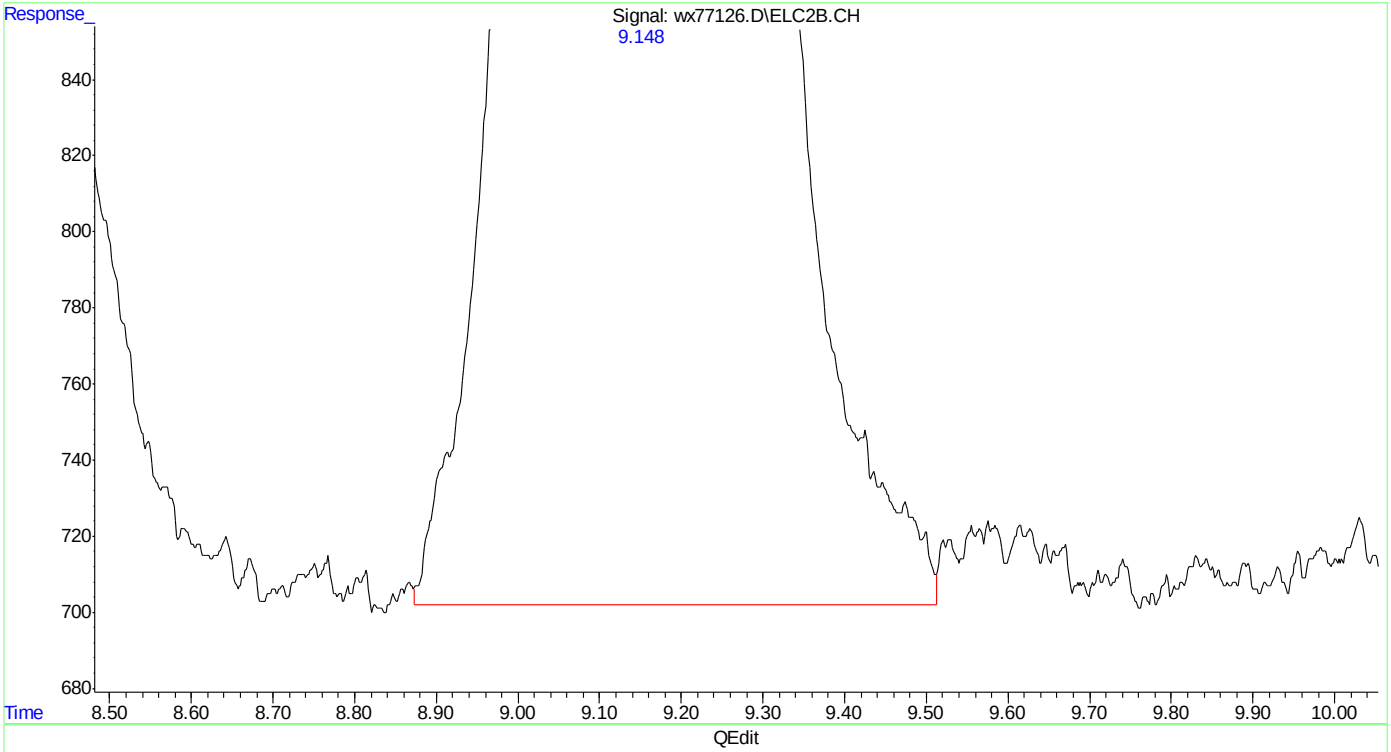
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77126.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 3:18 am
Operator : tonyf
Sample : mc46340-8msd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:23 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.148min 48.216 ppb m
response 210361

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:38:18 2016

SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77126.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 3:18 am
Operator : tonyf
Sample : mc46340-8msd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:23 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.810min 57.591 ppb
response 513001

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:38:27 2016

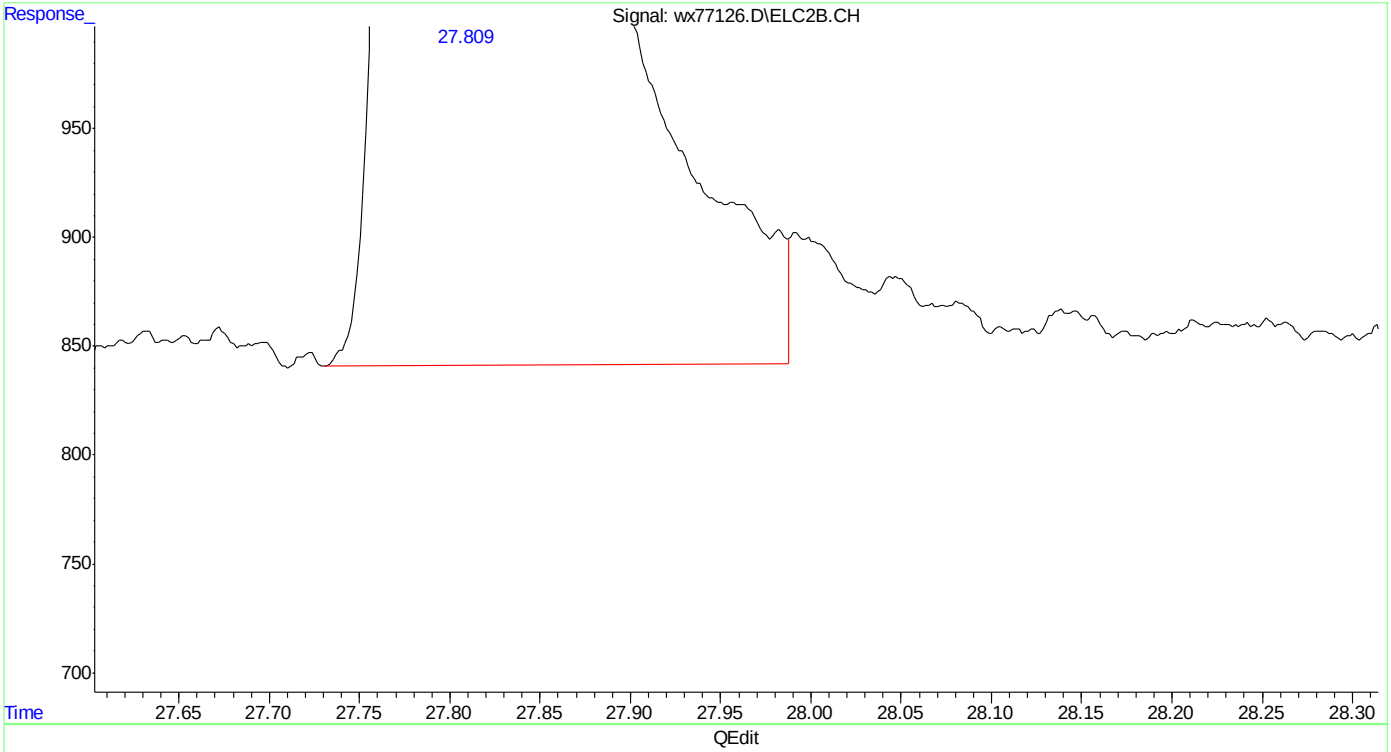
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77126.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 3:18 am
Operator : tonyf
Sample : mc46340-8msd,w,vmavph,00
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 06:23:23 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.809min 56.698 ppb m
response 505048

(+) = Expected Retention Time
wx160613vph.M Tue Jun 14 10:38:32 2016

SGS ACCUTEST MC46340

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 7:30 am
Operator : tonyf
Sample : ic3782-1000,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:29:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.741	28671114	1018.947 ppb	
Spiked Amount 50.000		Recovery	= 2037.89%	
9) s 2,3,4-trifluorotoluene	19.880	22463564	975.961 ppb	
Spiked Amount 50.000		Recovery	= 1951.92%	
25) s fluorobenzene #2	14.740	8963931	980.786 ppb	
Spiked Amount 50.000		Recovery	= 1961.57%	
27) s 2,3,4-trifluorotoluen...	19.879	5182085	937.302 ppb	
Spiked Amount 50.000		Recovery	= 1874.60%	
Target Compounds				
1) h rt5.5-7	6.100	16575302	748.263 ppb	
2) h rt7/10	8.370	26128627	899.806 ppb	
3) mtbe	9.129	10775658	828.174 ppb	
4) h rt10/13	13.510	10034529	416.080 ppb	
5) benzene	14.235	35552176	993.954 ppb	
8) toluene	18.744	34646676	996.645 ppb	
11) h rt20/25	21.600	28442696	764.465 ppb	
13) ethylbenzene	21.889	33968965	981.239 ppb	
14) m,p-xylene	22.040	69371303	1939.692 ppb	
15) o-xylene	22.843	34376585	961.631 ppb	
16) h Decane	23.990	20430393	545.890 ppb	
17) t 1,3,5-trimethylbenzene	24.343	33902826	898.886 ppb	
18) 1,2,4-trimethylbenzene	24.871	32051378	892.402 ppb	
19) h Butylcyclohexane	25.040	29073556	734.582 ppb	
20) naphthalene	27.798	14041107	796.103 ppb	m
23) mtbe #2	9.130	3594332	792.868 ppb	
24) benzene #2	14.234	13757761	962.513 ppb	
26) toluene #2	18.744	12502254	967.055 ppb	
28) ethylbenzene #2	21.888	10933666	946.317 ppb	
29) m,p-xylene #2	22.039	25551070	1820.343 ppb	
30) o-xylene #2	22.842	11062325	944.244 ppb	
31) t 1,3,5-trimethylbenzen...	24.343	14997143	859.325 ppb	
32) 1,2,4-trimethylbenzen...	24.870	11123956	859.546 ppb	
33) naphthalene #2	27.797	6832135	740.579 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	11119984	859.630 ppb	

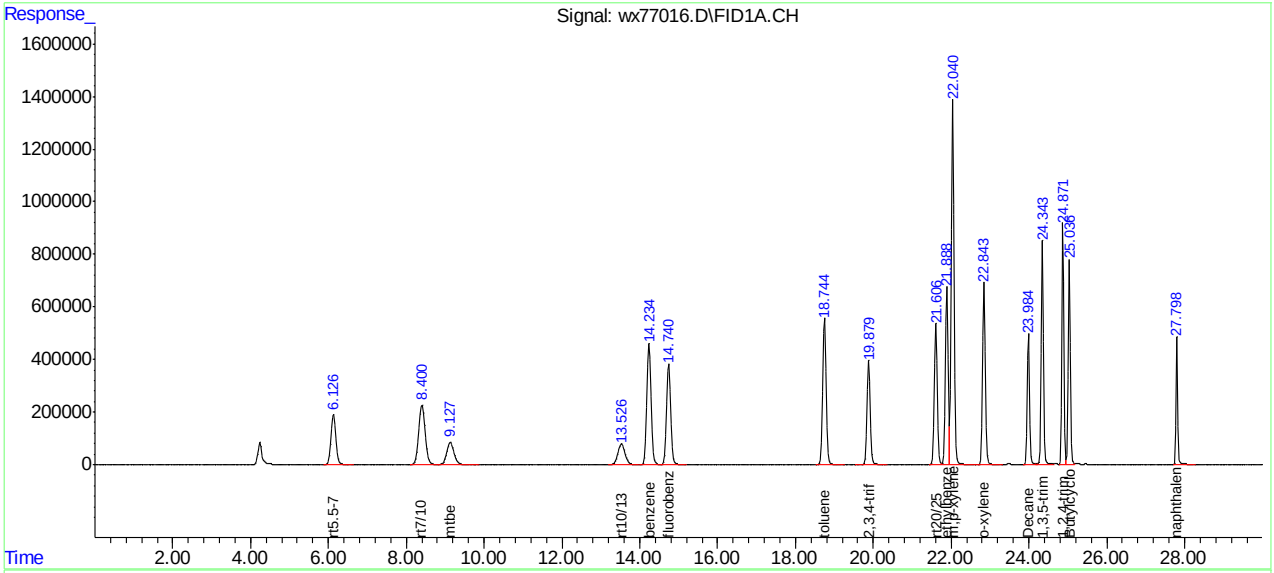
(f)=RT Delta > 1/2 Window (m)=manual int.

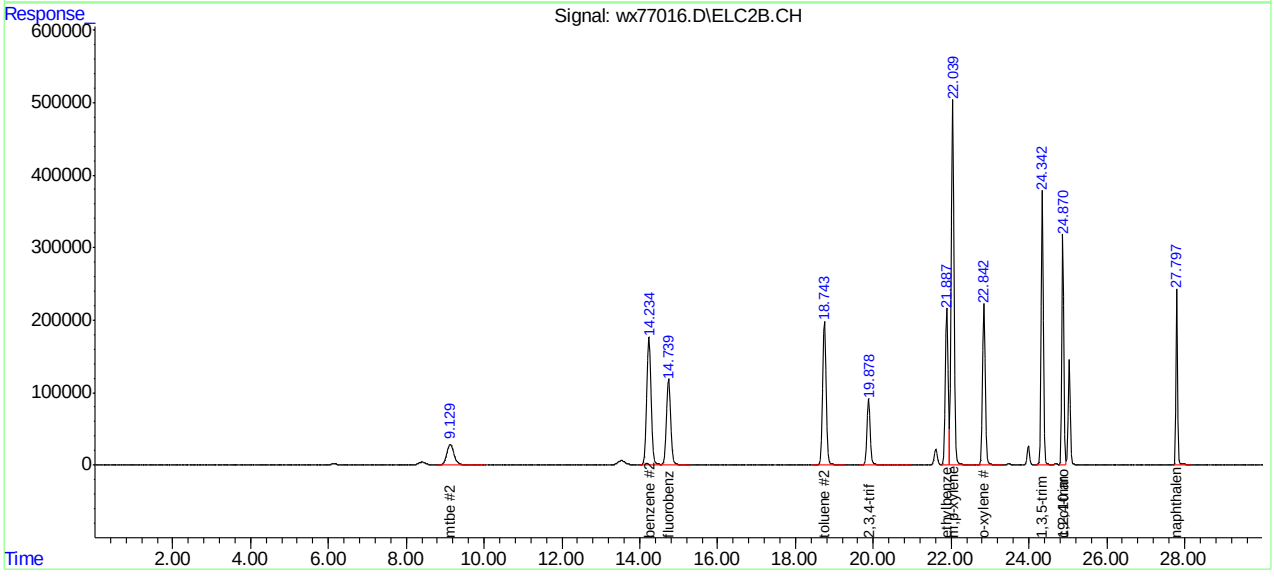
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 7:30 am
Operator : tonyf
Sample : ic3782-1000,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

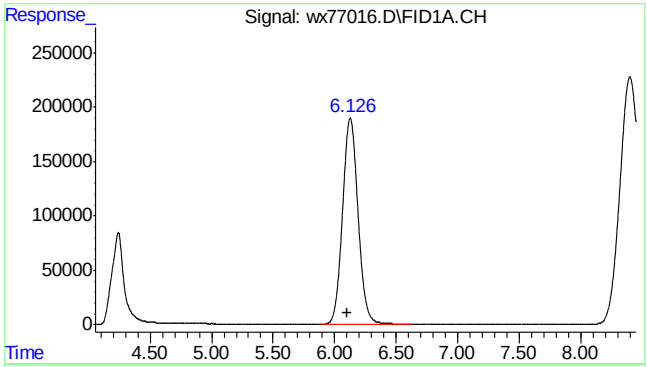
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:29:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



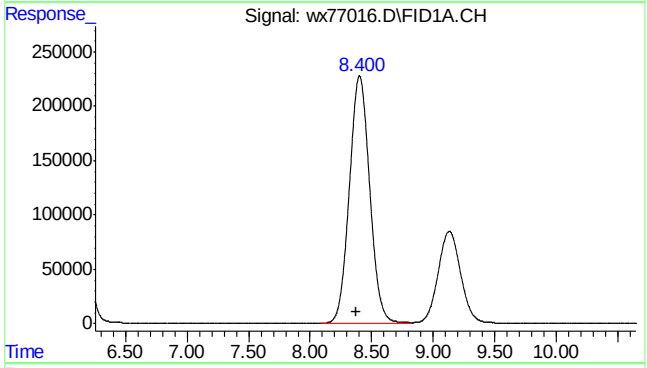


SGS ACCUTEST MC46340



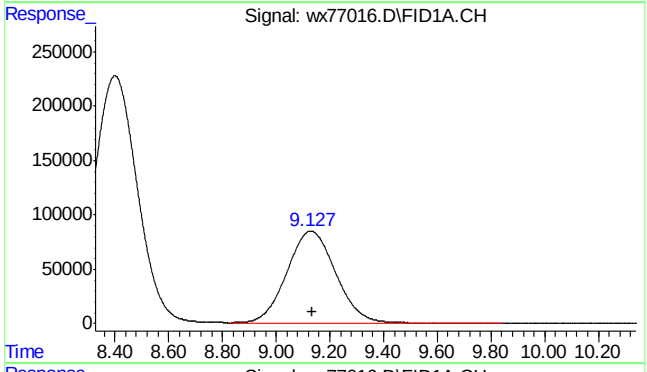
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 16575302
Conc: 748.26 ppb m



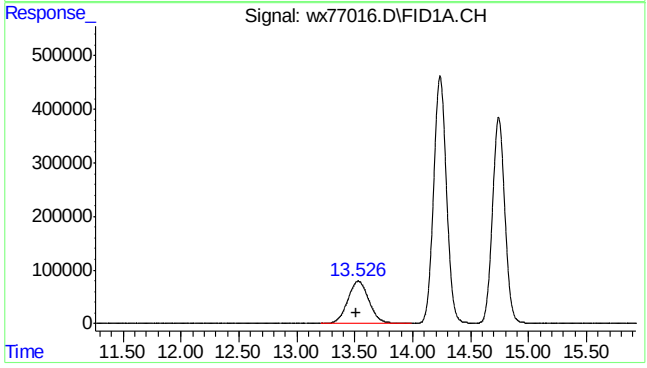
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 26128627
Conc: 899.81 ppb m



#3 mtbe

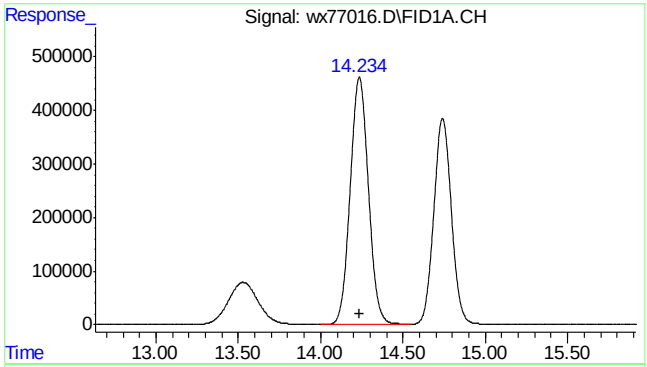
R.T.: 9.129 min
Delta R.T.: -0.007 min
Response: 10775658
Conc: 828.17 ppb



#4 rt10/13

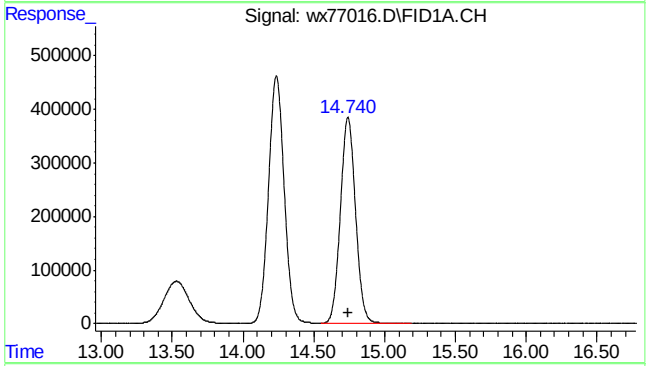
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 10034529
Conc: 416.08 ppb m

SGS ACCUTEST MC46340



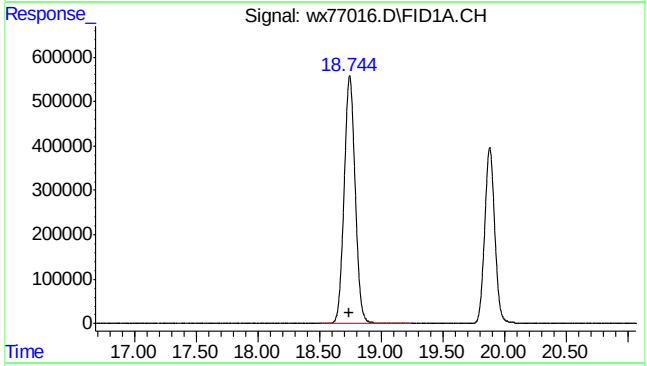
#5 benzene

R.T.: 14.235 min
Delta R.T.: 0.000 min
Response: 35552176
Conc: 993.95 ppb



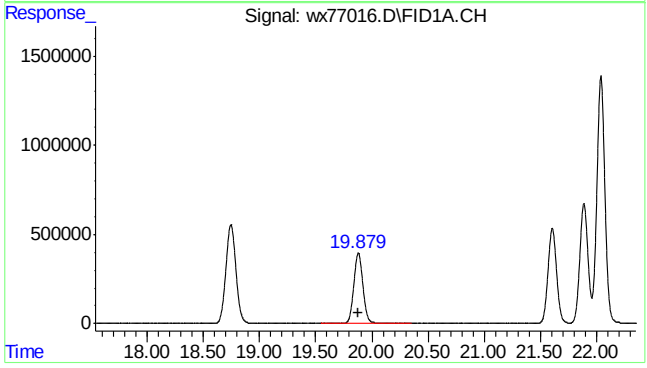
#6 fluorobenzene

R.T.: 14.741 min
Delta R.T.: 0.000 min
Response: 28671114
Conc: 1018.95 ppb



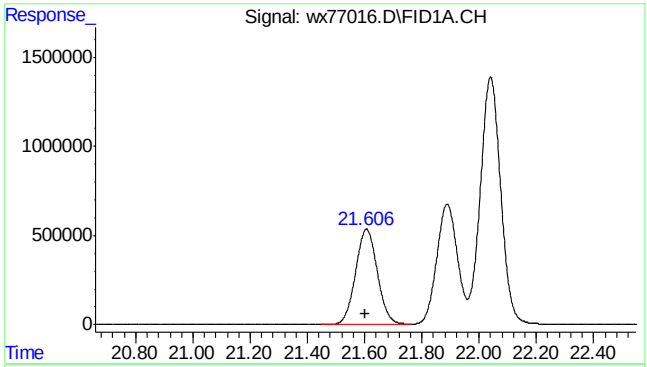
#8 toluene

R.T.: 18.744 min
Delta R.T.: 0.001 min
Response: 34646676
Conc: 996.64 ppb



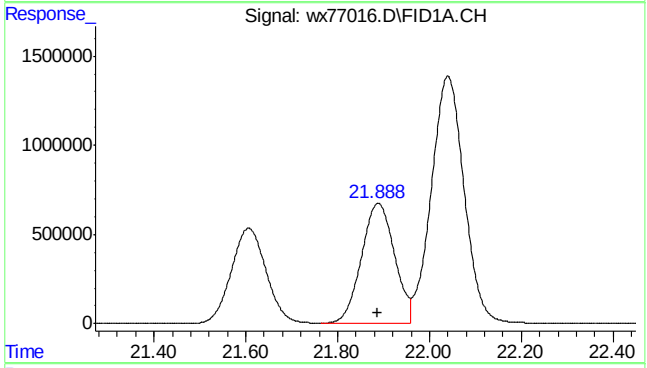
#9 2,3,4-trifluorotoluene

R.T.: 19.880 min
Delta R.T.: 0.000 min
Response: 22463564
Conc: 975.96 ppb



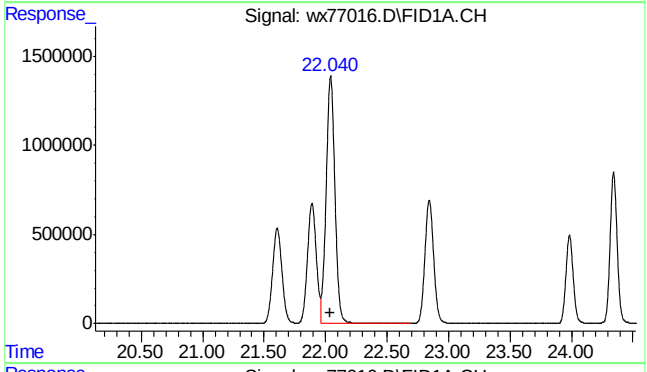
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 28442696
Conc: 764.47 ppb m



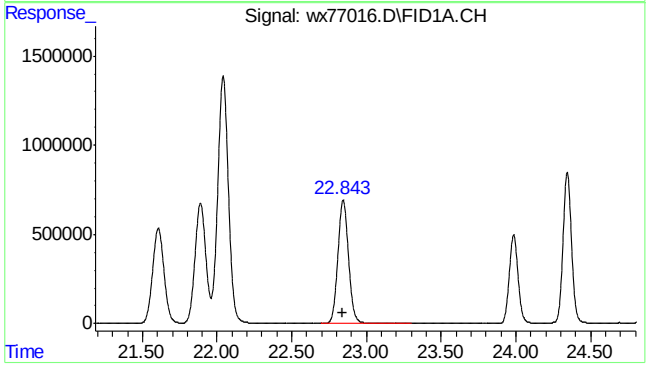
#13 ethylbenzene

R.T.: 21.889 min
Delta R.T.: 0.003 min
Response: 33968965
Conc: 981.24 ppb



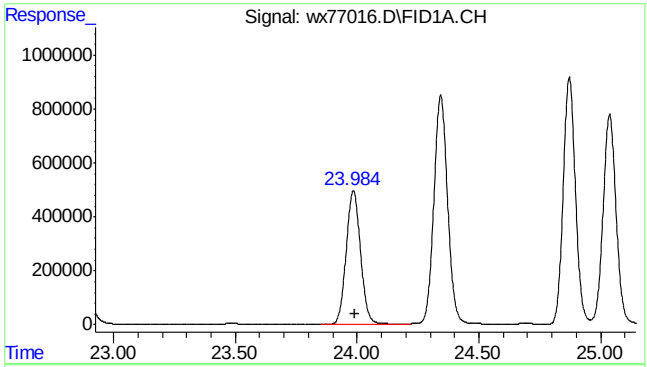
#14 m,p-xylene

R.T.: 22.040 min
Delta R.T.: 0.005 min
Response: 69371303
Conc: 1939.69 ppb



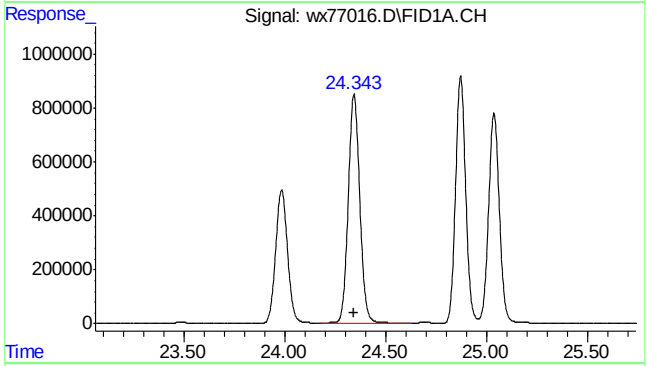
#15 o-xylene

R.T.: 22.843 min
Delta R.T.: 0.001 min
Response: 34376585
Conc: 961.63 ppb



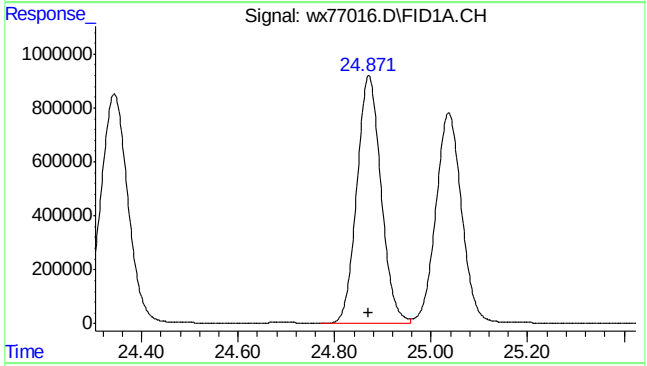
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 20430393
Conc: 545.89 ppb m



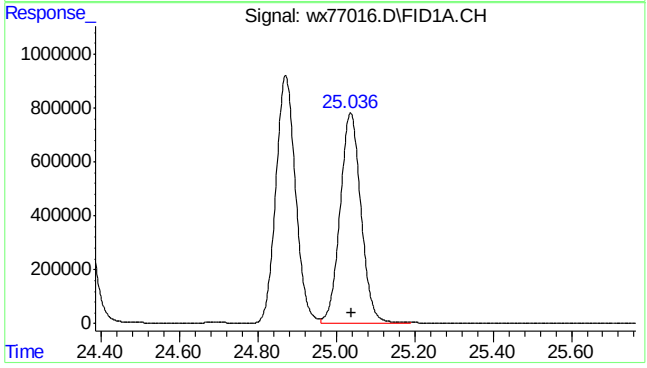
#17 1,3,5-trimethylbenzene

R.T.: 24.343 min
Delta R.T.: 0.002 min
Response: 33902826
Conc: 898.89 ppb



#18 1,2,4-trimethylbenzene

R.T.: 24.871 min
Delta R.T.: 0.002 min
Response: 32051378
Conc: 892.40 ppb



#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 29073556
Conc: 734.58 ppb m

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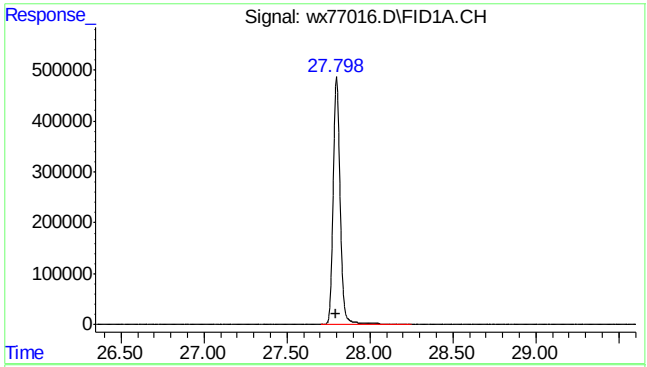
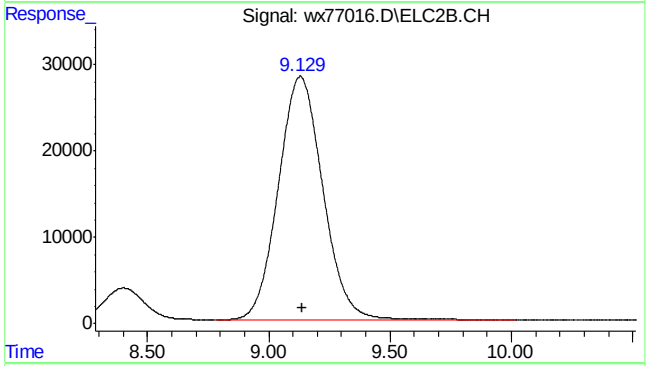


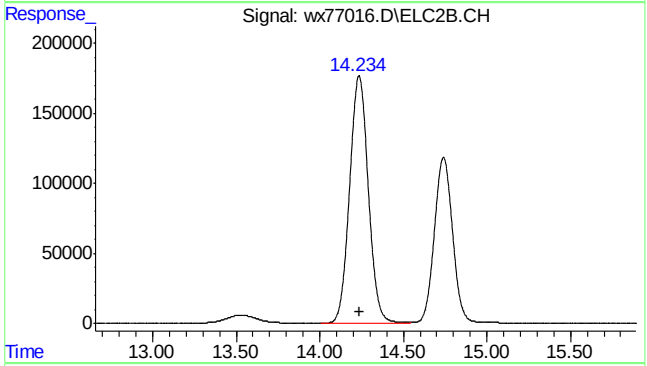
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 14041107
Conc: 796.10 ppb m



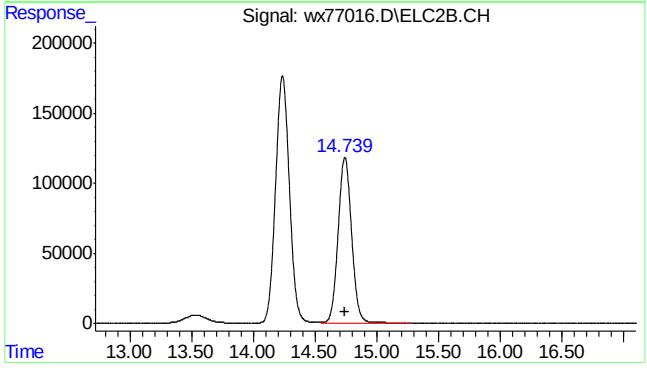
#23 mtbe #2

R.T.: 9.130 min
Delta R.T.: -0.009 min
Response: 3594332
Conc: 792.87 ppb



#24 benzene #2

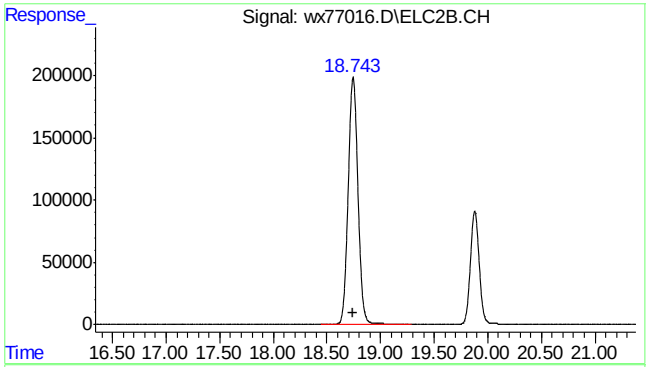
R.T.: 14.234 min
Delta R.T.: 0.000 min
Response: 13757761
Conc: 962.51 ppb



#25 fluorobenzene #2

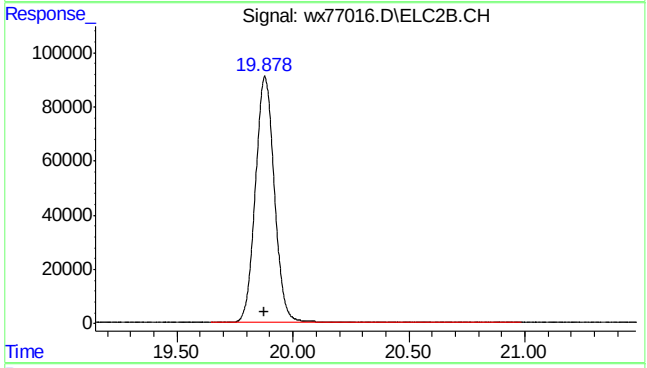
R.T.: 14.740 min
Delta R.T.: 0.000 min
Response: 8963931
Conc: 980.79 ppb

SGS ACCUTEST MC46340



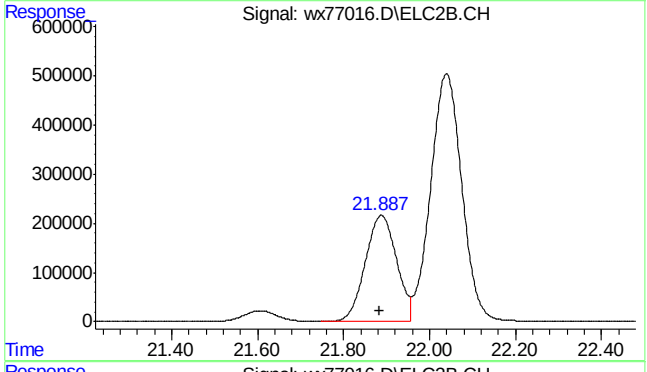
#26 toluene #2

R.T.: 18.744 min
Delta R.T.: 0.001 min
Response: 12502254
Conc: 967.05 ppb



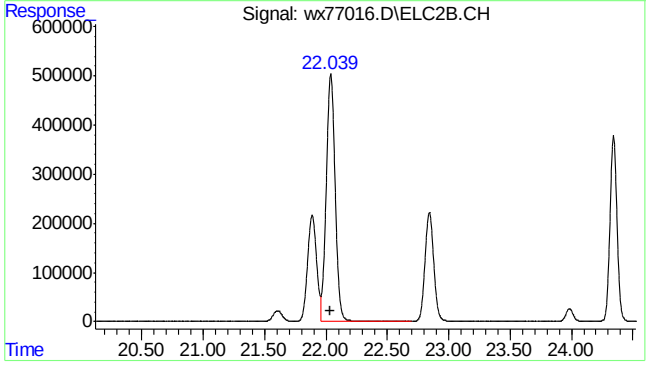
#27 2,3,4-trifluorotoluene #2

R.T.: 19.879 min
Delta R.T.: 0.000 min
Response: 5182085
Conc: 937.30 ppb



#28 ethylbenzene #2

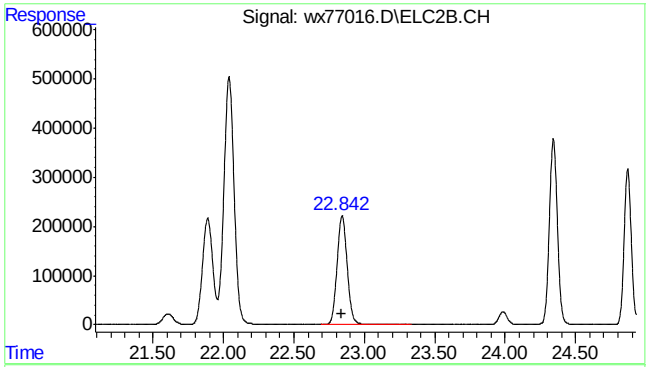
R.T.: 21.888 min
Delta R.T.: 0.003 min
Response: 10933666
Conc: 946.32 ppb



#29 m,p-xylene #2

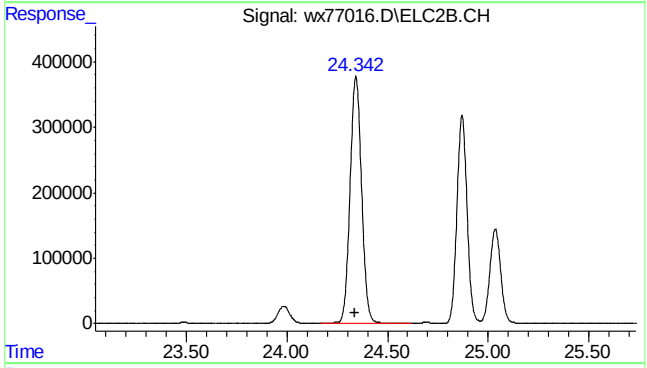
R.T.: 22.039 min
Delta R.T.: 0.005 min
Response: 25551070
Conc: 1820.34 ppb

SGS ACCUTEST MC46340



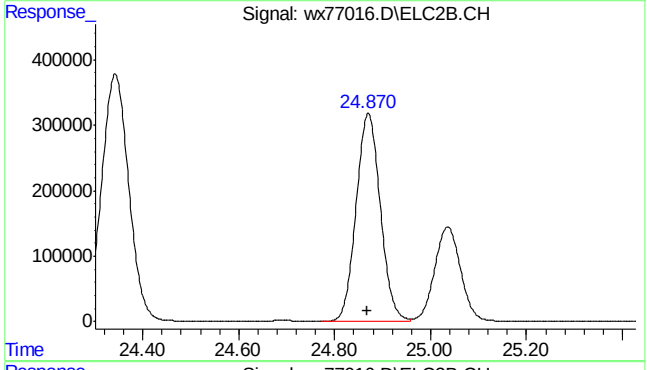
#30 o-xylene #2

R.T.: 22.842 min
Delta R.T.: 0.002 min
Response: 11062325
Conc: 944.24 ppb



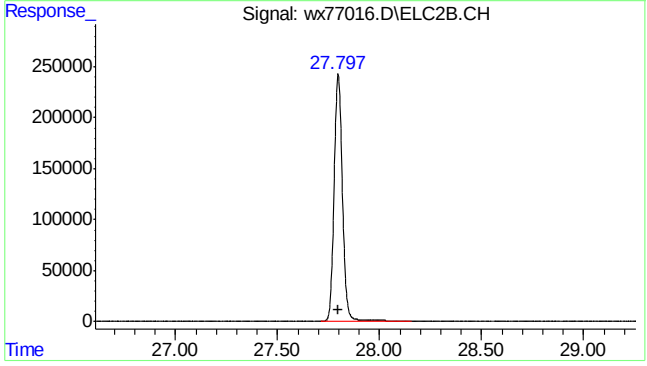
#31 1,3,5-trimethylbenzene #2

R.T.: 24.343 min
Delta R.T.: 0.003 min
Response: 14997143
Conc: 859.32 ppb



#32 1,2,4-trimethylbenzene #2

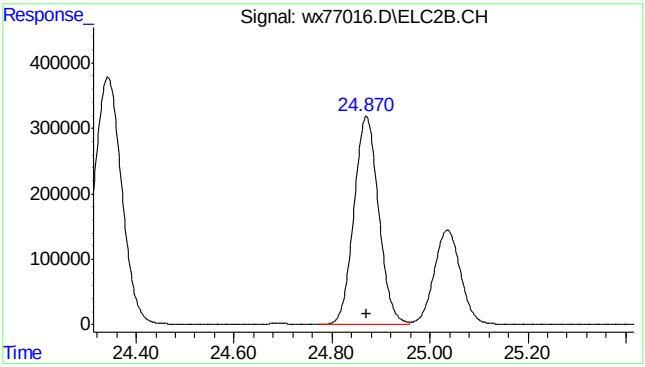
R.T.: 24.870 min
Delta R.T.: 0.002 min
Response: 11123956
Conc: 859.55 ppb



#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 6832135
Conc: 740.58 ppb m

SGS ACCUTEST MC46340




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

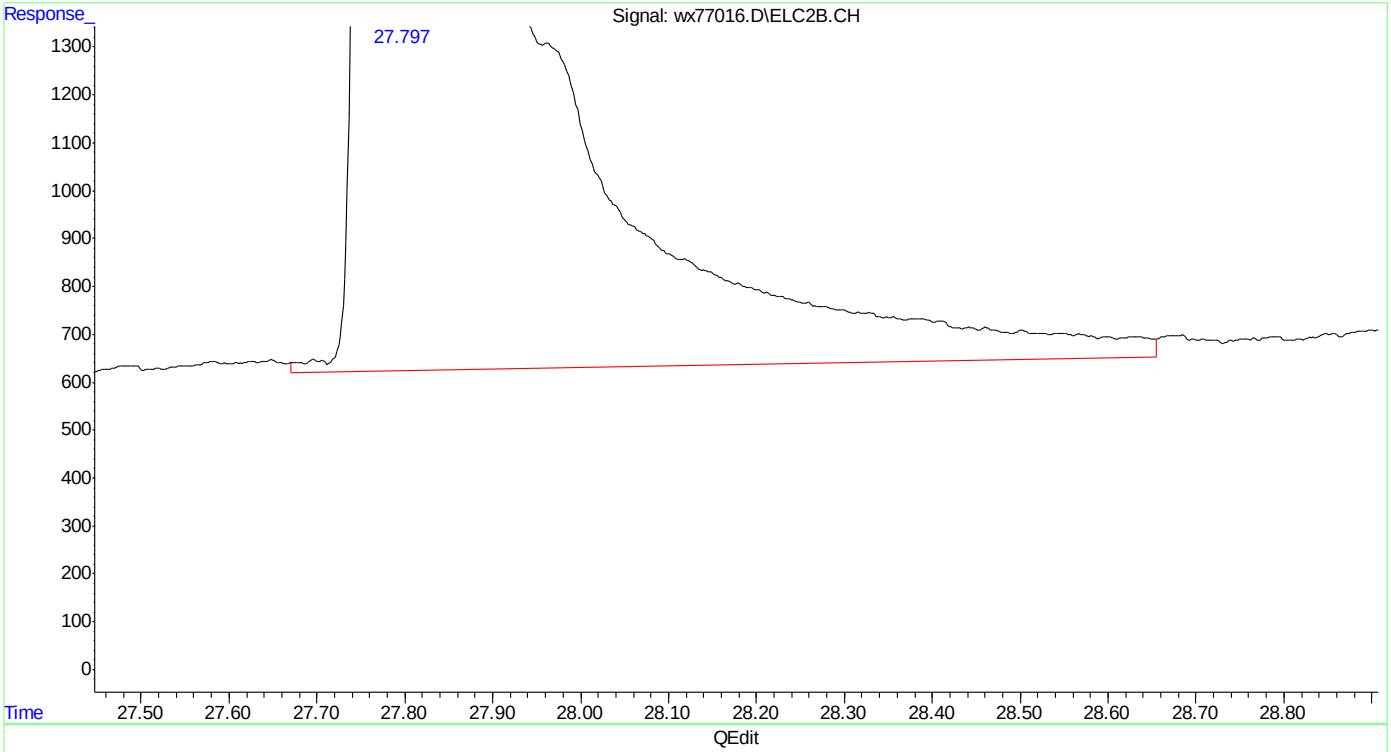
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:  11119984
      Conc: 859.63 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 7:30 am
Operator : tonyf
Sample : ic3782-1000,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 744.210 ppb
response 6865636

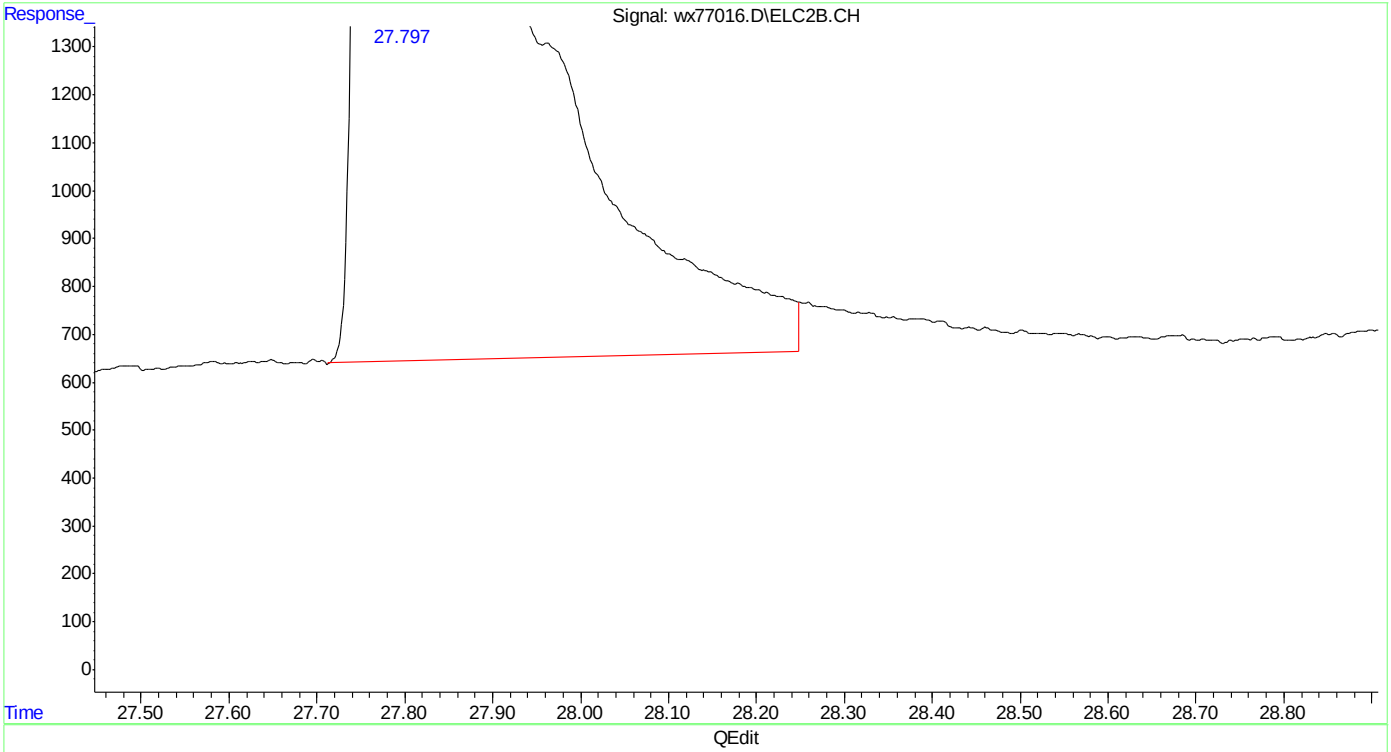
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:27:05 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.797min 741.418 ppb m

response 6839875

(+) = Expected Retention Time

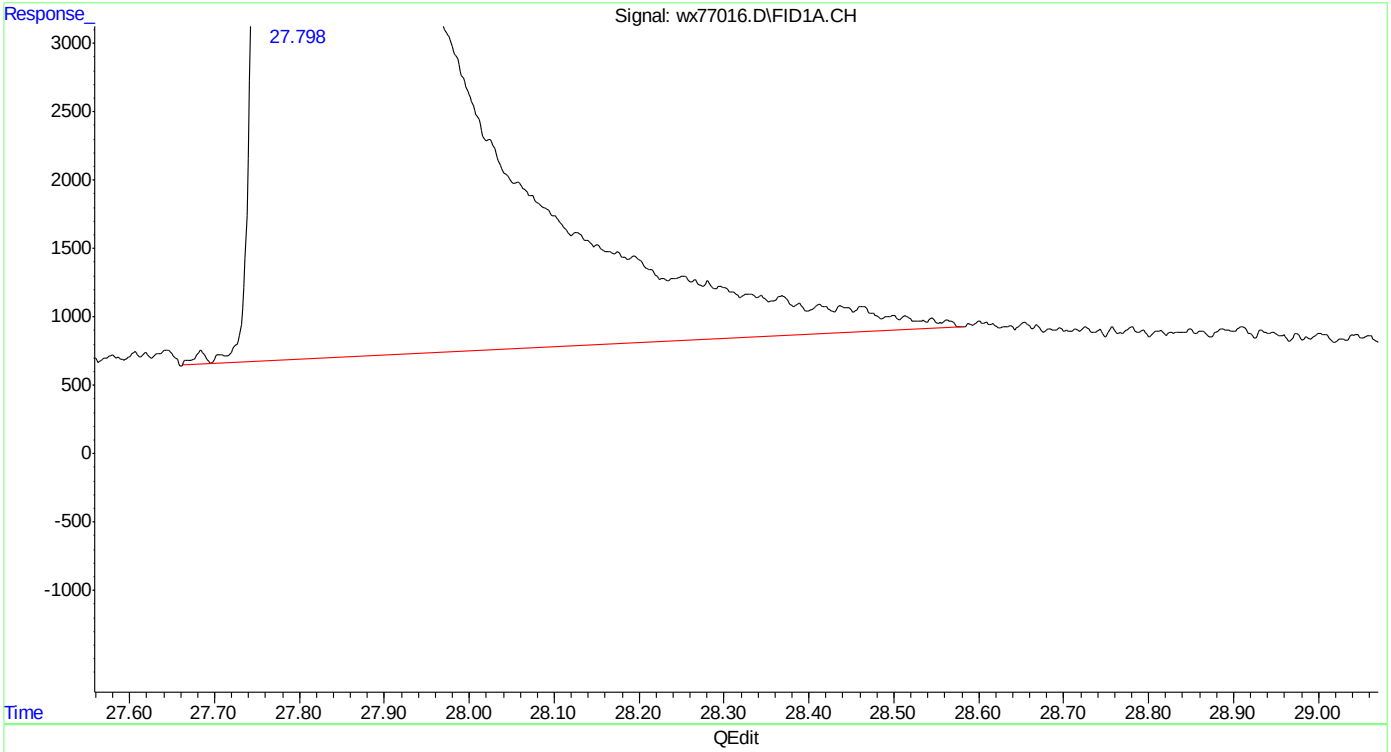
wx160602vphmaster.M Thu Jun 02 13:27:10 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.799min 799.301 ppb

response 14097518

(+) = Expected Retention Time

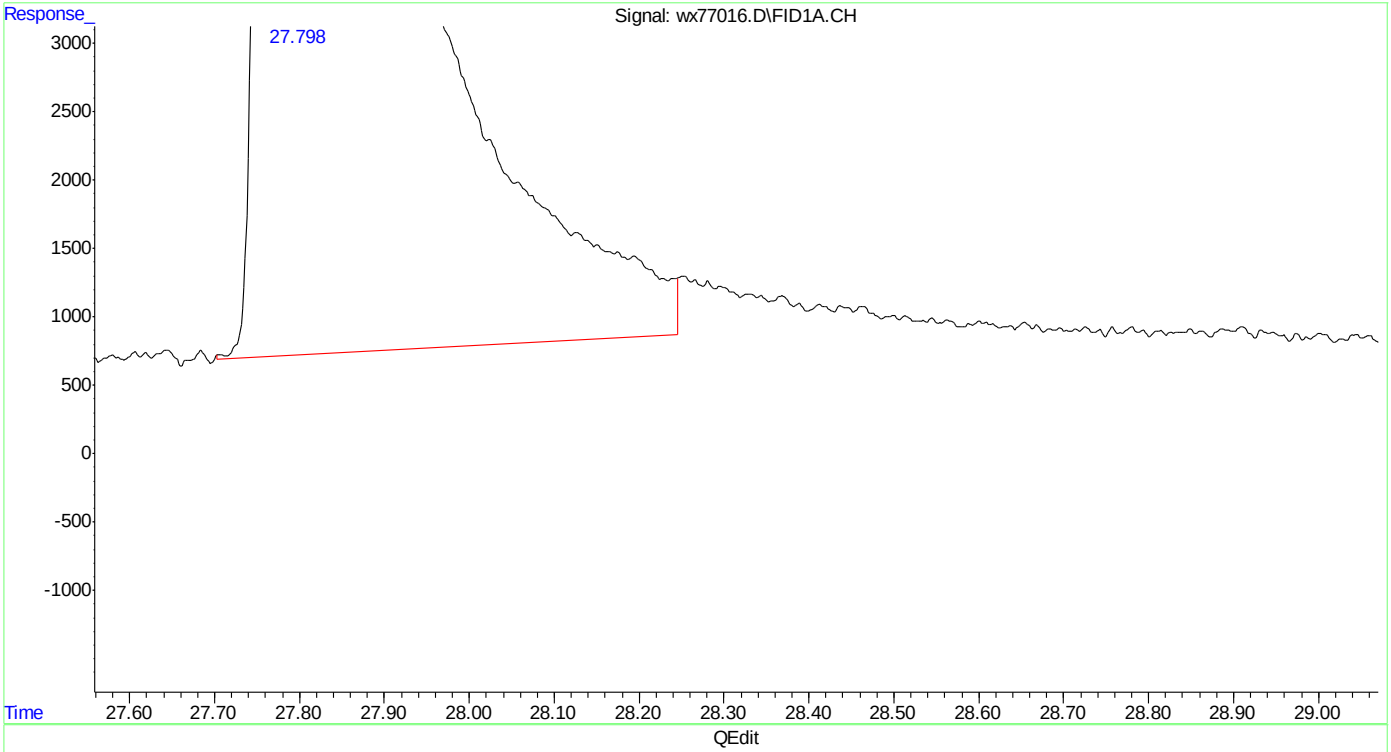
wx160602vphmaster.M Thu Jun 02 13:28:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 7:30 am
Operator : tonyf
Sample : ic3782-1000,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.798min 796.103 ppb m
response 14041107

(+) = Expected Retention Time

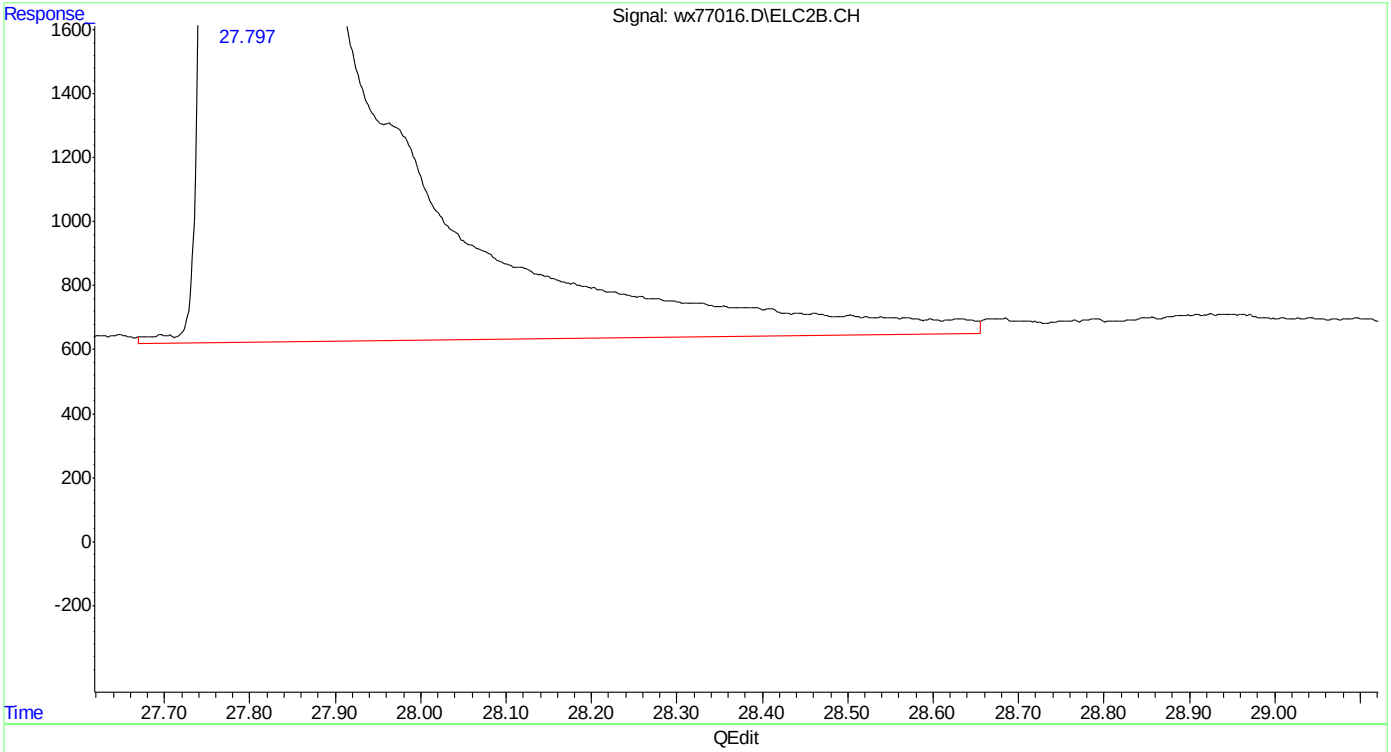
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.798min 744.210 ppb

response 6865636

(+) = Expected Retention Time

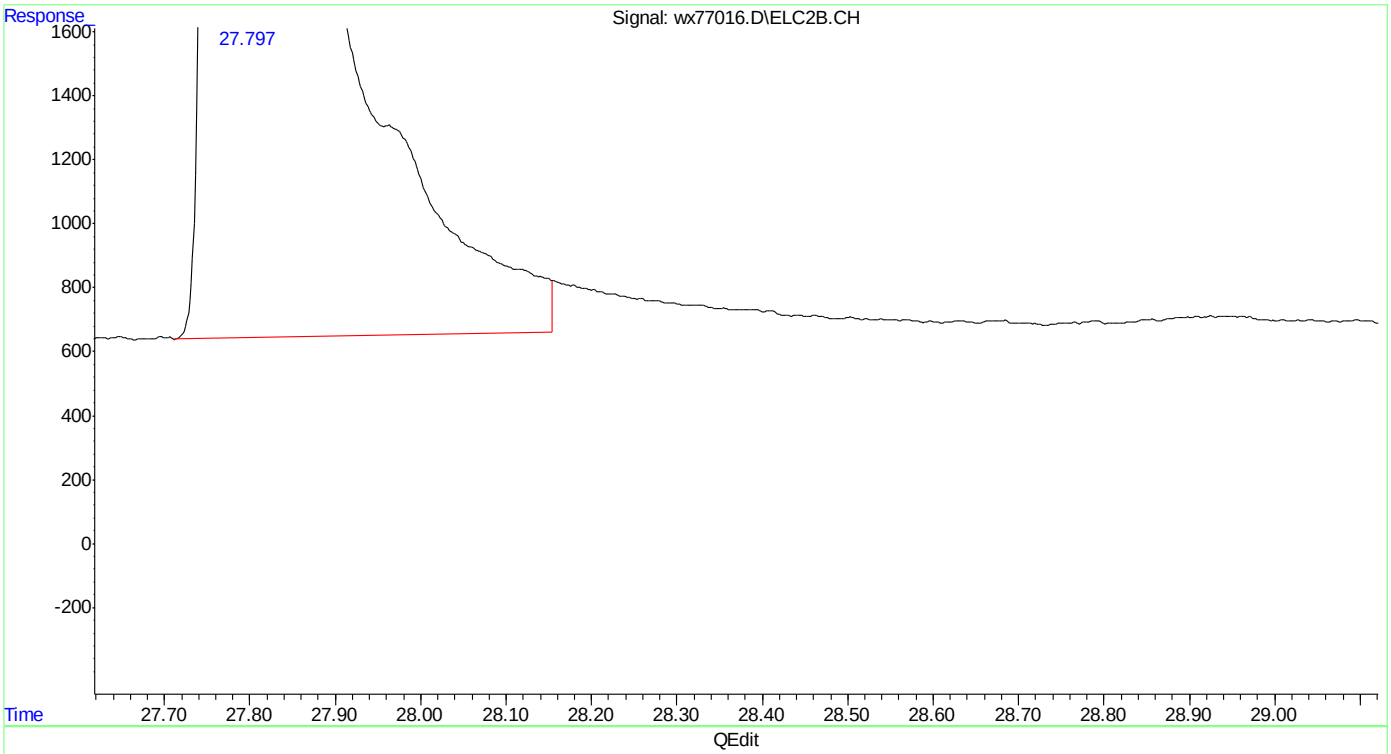
wx160602vphmaster.M Thu Jun 02 13:28:48 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.797min 740.579 ppb m

response 6832135

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:28:58 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.742	14348971	509.950 ppb	
Spiked Amount 50.000		Recovery	= 1019.90%	
9) s 2,3,4-trifluorotoluene	19.879	11329026	492.205 ppb	
Spiked Amount 50.000		Recovery	= 984.41%	
25) s fluorobenzene #2	14.741	4557876	498.699 ppb	
Spiked Amount 50.000		Recovery	= 997.40%	
27) s 2,3,4-trifluorotoluen...	19.879	2636030	476.788 ppb	
Spiked Amount 50.000		Recovery	= 953.58%	
Target Compounds				
1) h rt5.5-7	6.100	9607441	433.711 ppb	
2) h rt7/10	8.370	13595417	468.193 ppb	
3) mtbe	9.134	5784912	444.605 ppb	
4) h rt10/13	13.510	6302927	261.350 ppb	
5) benzene	14.236	17852198	499.105 ppb	
8) toluene	18.744	17433527	501.492 ppb	m
11) h rt20/25	21.600	15089646	405.570 ppb	
13) ethylbenzene	21.887	17076083	493.266 ppb	
14) m,p-xylene	22.037	35141909	982.603 ppb	
15) o-xylene	22.842	17486808	489.166 ppb	
16) h Decane	23.990	14183677	378.981 ppb	
17) t 1,3,5-trimethylbenzene	24.342	18002951	477.323 ppb	
18) 1,2,4-trimethylbenzene	24.870	17030260	474.171 ppb	
19) h Butylcyclohexane	25.040	15882418	401.290 ppb	
20) naphthalene	27.798	8926700	506.126 ppb	m
23) mtbe #2	9.135	1969301	434.405 ppb	
24) benzene #2	14.235	7018741	491.041 ppb	
26) toluene #2	18.743	6391781	494.407 ppb	
28) ethylbenzene #2	21.886	5604870	485.106 ppb	
29) m,p-xylene #2	22.036	13326763	949.443 ppb	
30) o-xylene #2	22.841	5729768	489.075 ppb	
31) t 1,3,5-trimethylbenzen...	24.341	8120873	465.320 ppb	
32) 1,2,4-trimethylbenzen...	24.869	6045428	467.129 ppb	
33) naphthalene #2	27.796	4379605	474.734 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	6045219	467.326 ppb	

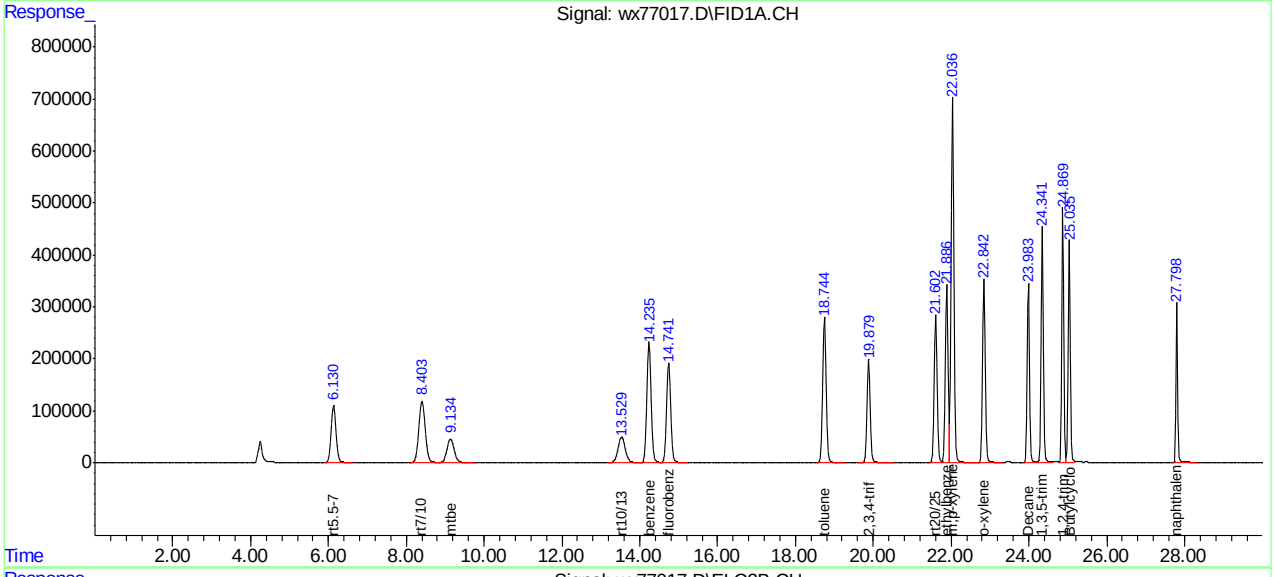
(f)=RT Delta > 1/2 Window (m)=manual int.

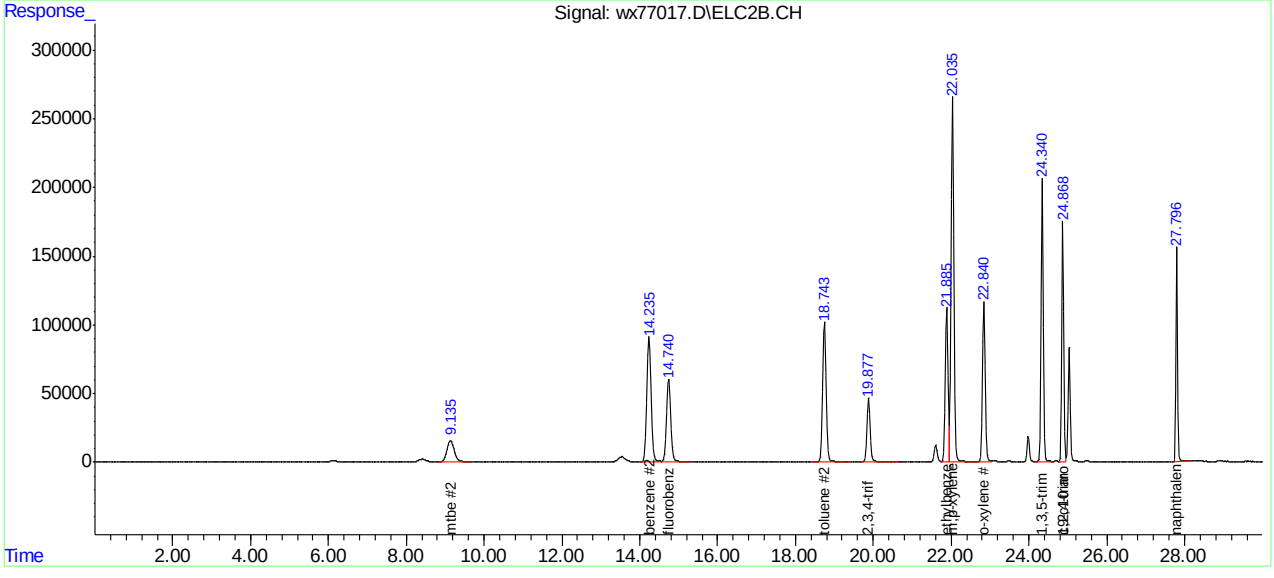
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

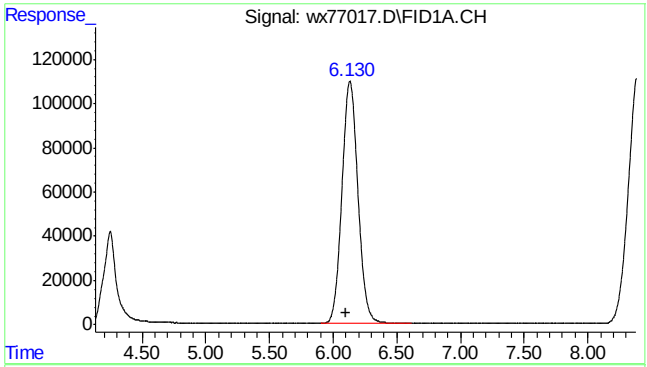
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



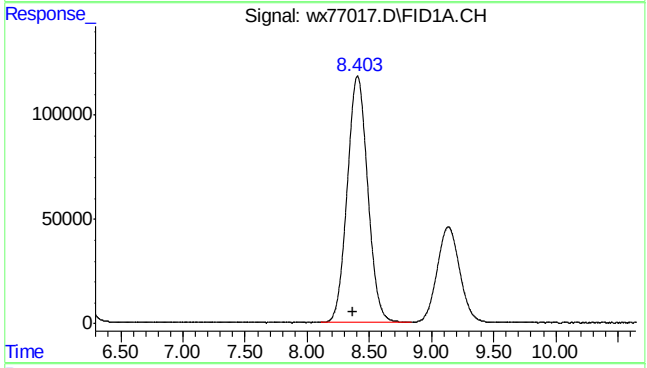


SGS ACCUTEST MC46340



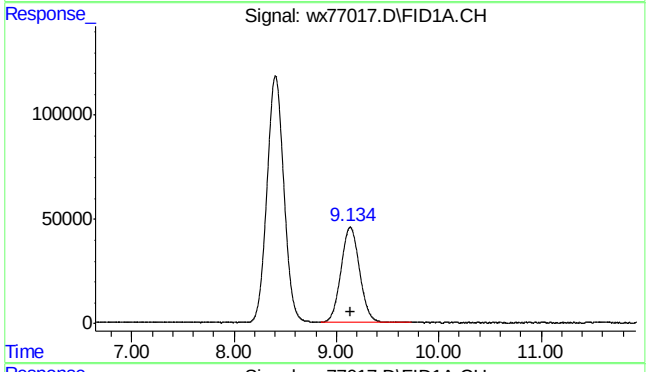
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 9607441
Conc: 433.71 ppb m



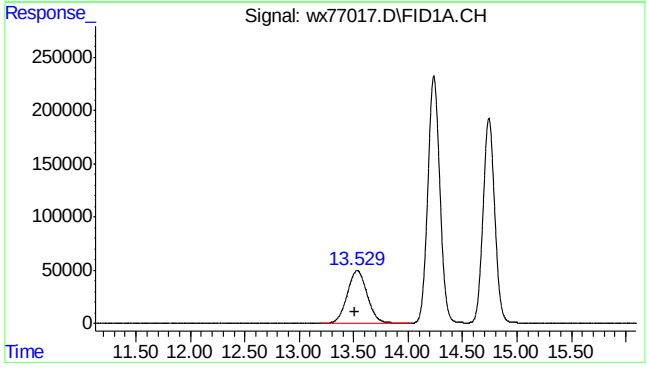
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 13595417
Conc: 468.19 ppb m



#3 mtbe

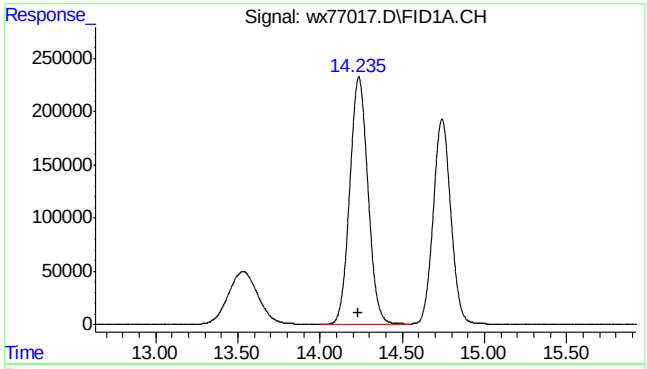
R.T.: 9.134 min
Delta R.T.: -0.002 min
Response: 5784912
Conc: 444.60 ppb



#4 rt10/13

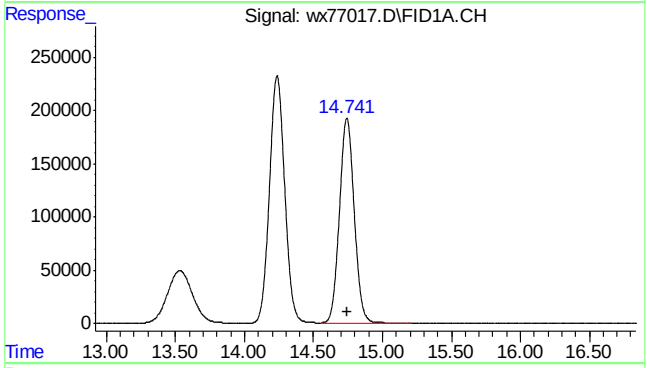
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 6302927
Conc: 261.35 ppb m

SGS ACCUTEST MC46340



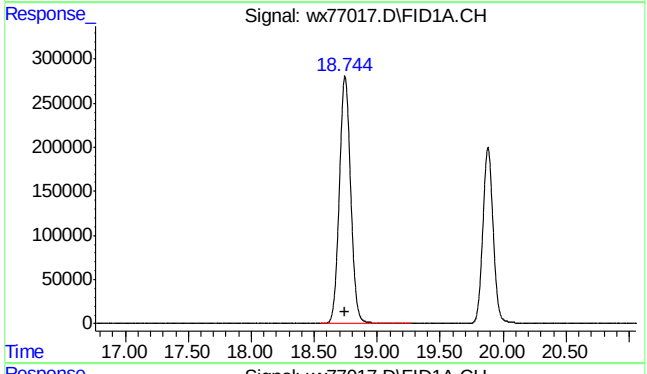
#5 benzene

R.T.: 14.236 min
Delta R.T.: 0.000 min
Response: 17852198
Conc: 499.11 ppb



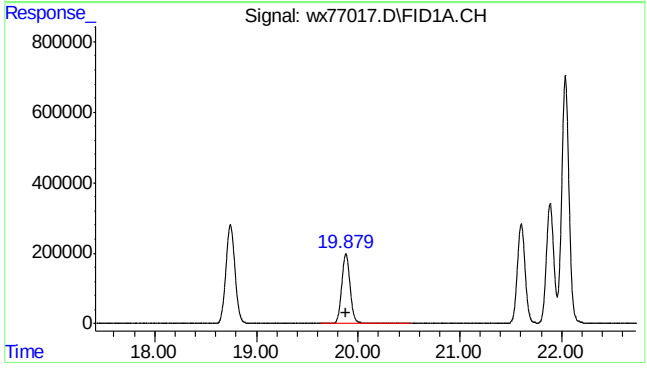
#6 fluorobenzene

R.T.: 14.742 min
Delta R.T.: 0.000 min
Response: 14348971
Conc: 509.95 ppb



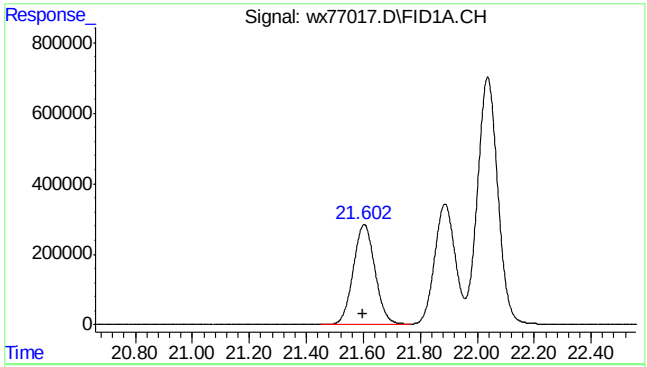
#8 toluene

R.T.: 18.744 min
Delta R.T.: 0.000 min
Response: 17433527
Conc: 501.49 ppb m



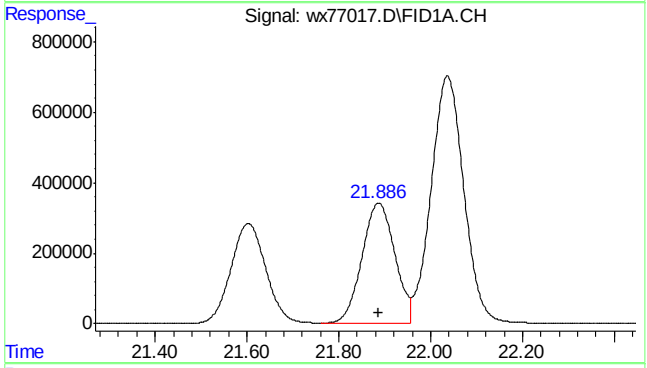
#9 2,3,4-trifluorotoluene

R.T.: 19.879 min
Delta R.T.: 0.000 min
Response: 11329026
Conc: 492.21 ppb



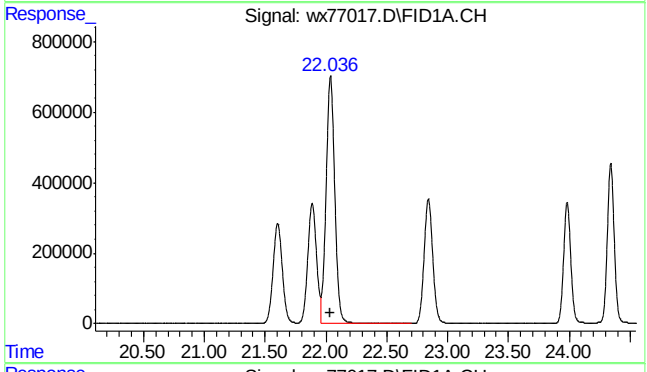
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 15089646
Conc: 405.57 ppb m



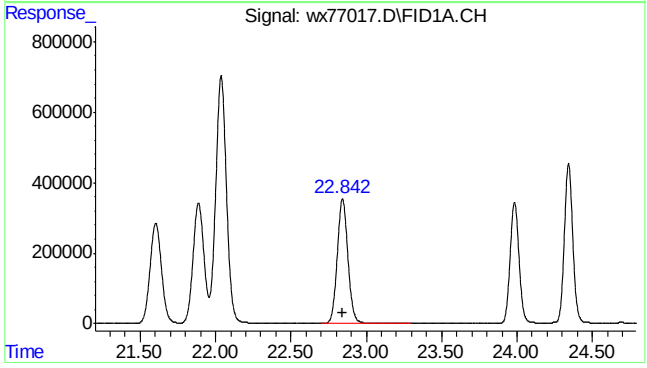
#13 ethylbenzene

R.T.: 21.887 min
Delta R.T.: 0.001 min
Response: 17076083
Conc: 493.27 ppb



#14 m,p-xylene

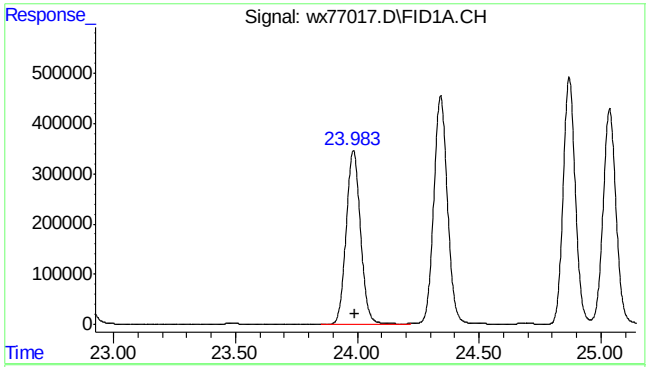
R.T.: 22.037 min
Delta R.T.: 0.002 min
Response: 35141909
Conc: 982.60 ppb



#15 o-xylene

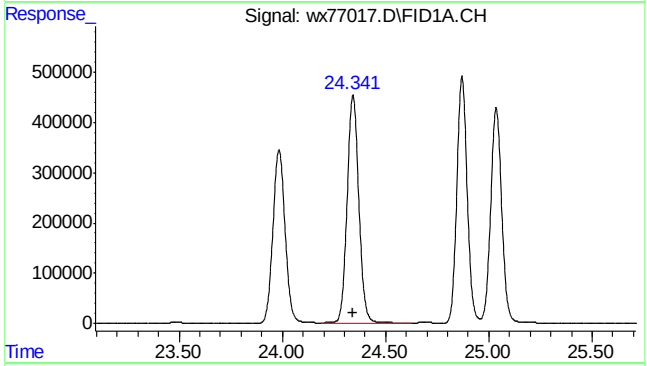
R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 17486808
Conc: 489.17 ppb

SGS ACCUTEST MC46340



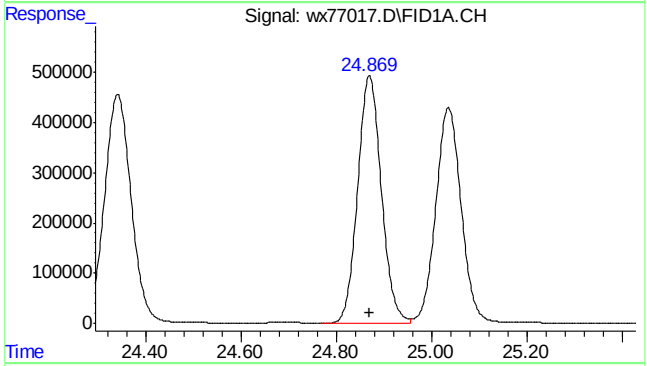
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 14183677
Conc: 378.98 ppb m



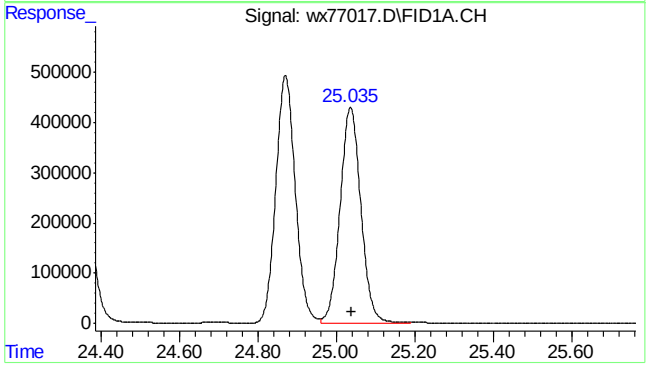
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 18002951
Conc: 477.32 ppb



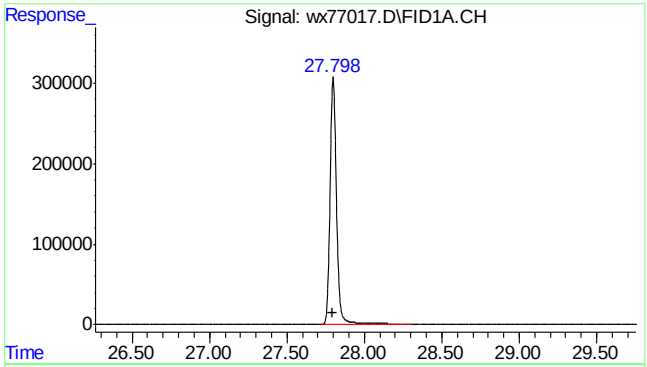
#18 1,2,4-trimethylbenzene

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 17030260
Conc: 474.17 ppb



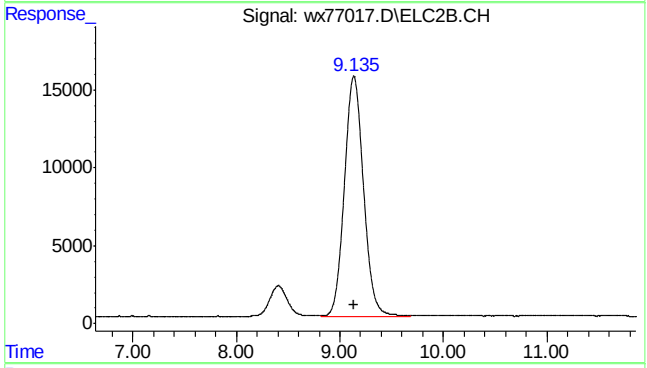
#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 15882418
Conc: 401.29 ppb m



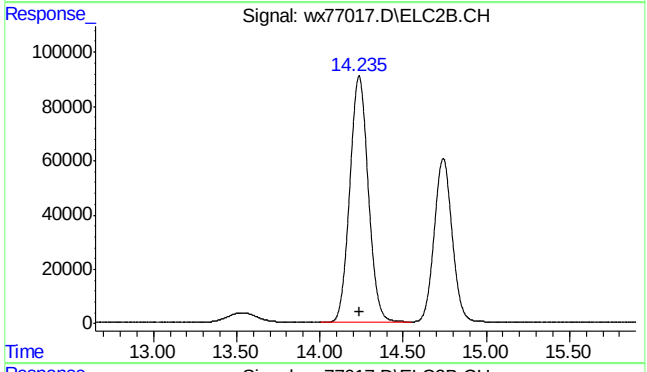
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 8926700
Conc: 506.13 ppb m



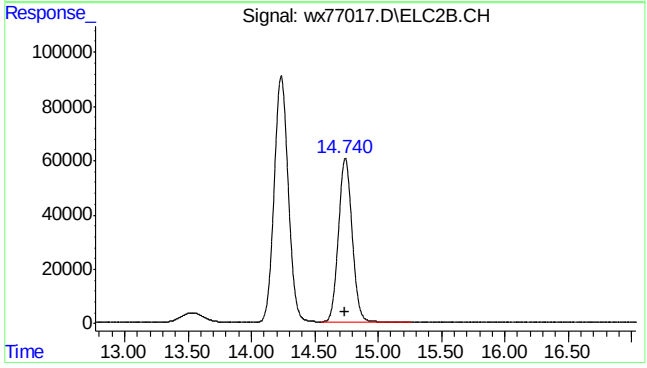
#23 mtbe #2

R.T.: 9.135 min
Delta R.T.: -0.004 min
Response: 1969301
Conc: 434.41 ppb



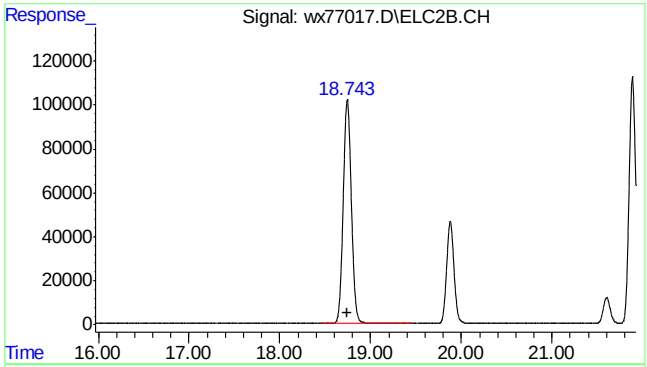
#24 benzene #2

R.T.: 14.235 min
Delta R.T.: 0.000 min
Response: 7018741
Conc: 491.04 ppb



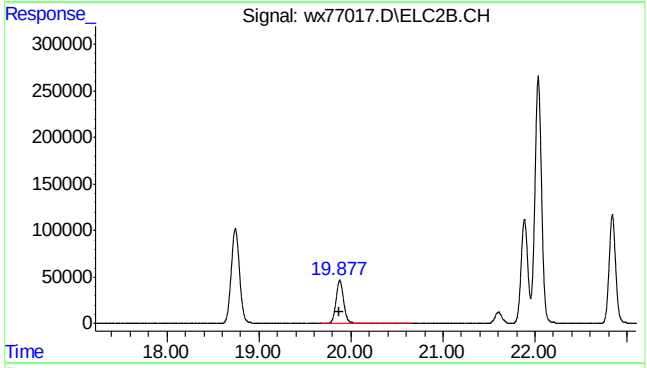
#25 fluorobenzene #2

R.T.: 14.741 min
Delta R.T.: 0.000 min
Response: 4557876
Conc: 498.70 ppb



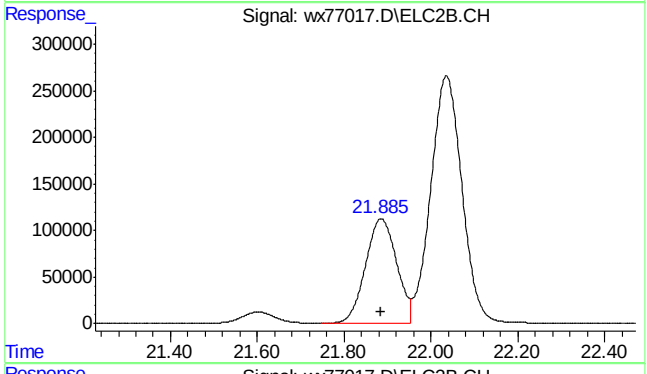
#26 toluene #2

R.T.: 18.743 min
Delta R.T.: 0.000 min
Response: 6391781
Conc: 494.41 ppb



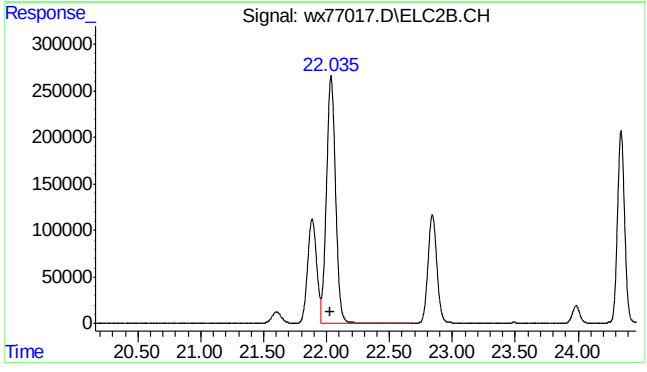
#27 2,3,4-trifluorotoluene #2

R.T.: 19.879 min
Delta R.T.: 0.000 min
Response: 2636030
Conc: 476.79 ppb



#28 ethylbenzene #2

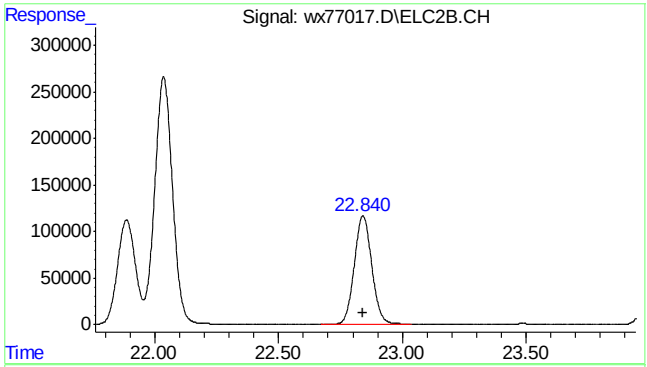
R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 5604870
Conc: 485.11 ppb



#29 m,p-xylene #2

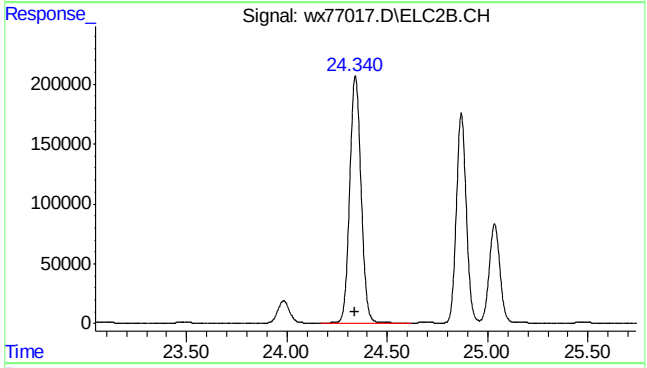
R.T.: 22.036 min
Delta R.T.: 0.002 min
Response: 13326763
Conc: 949.44 ppb

SGS ACCUTEST MC46340



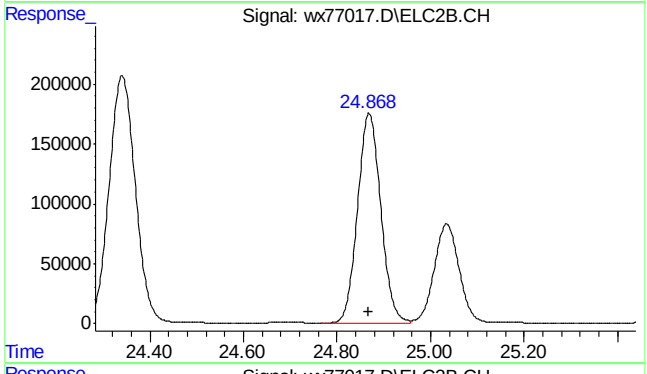
#30 o-xylene #2

R.T.: 22.841 min
Delta R.T.: 0.000 min
Response: 5729768
Conc: 489.07 ppb



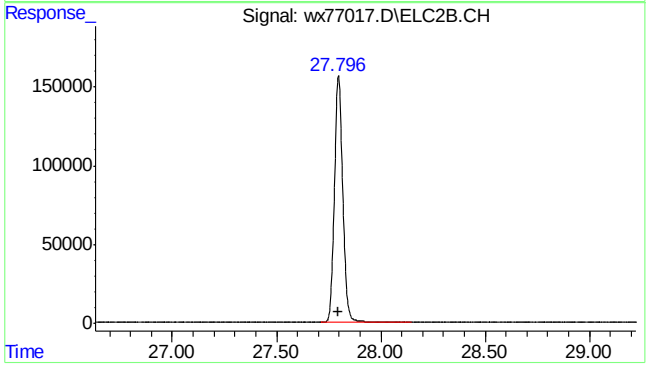
#31 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.001 min
Response: 8120873
Conc: 465.32 ppb



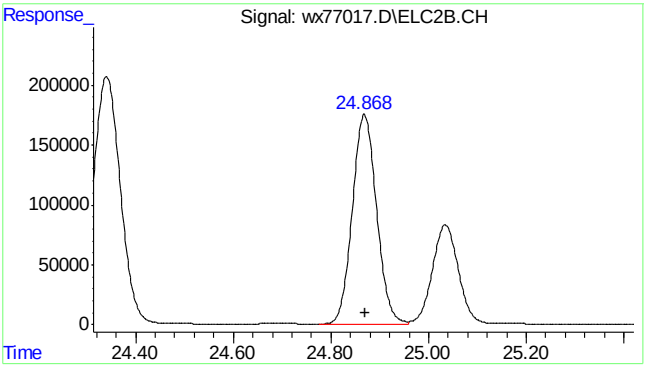
#32 1,2,4-trimethylbenzene #2

R.T.: 24.869 min
Delta R.T.: 0.000 min
Response: 6045428
Conc: 467.13 ppb



#33 naphthalene #2

R.T.: 27.796 min
Delta R.T.: 0.000 min
Response: 4379605
Conc: 474.73 ppb m




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

      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:   6045219
      Conc: 467.33 ppb m
```

7.5.2

7

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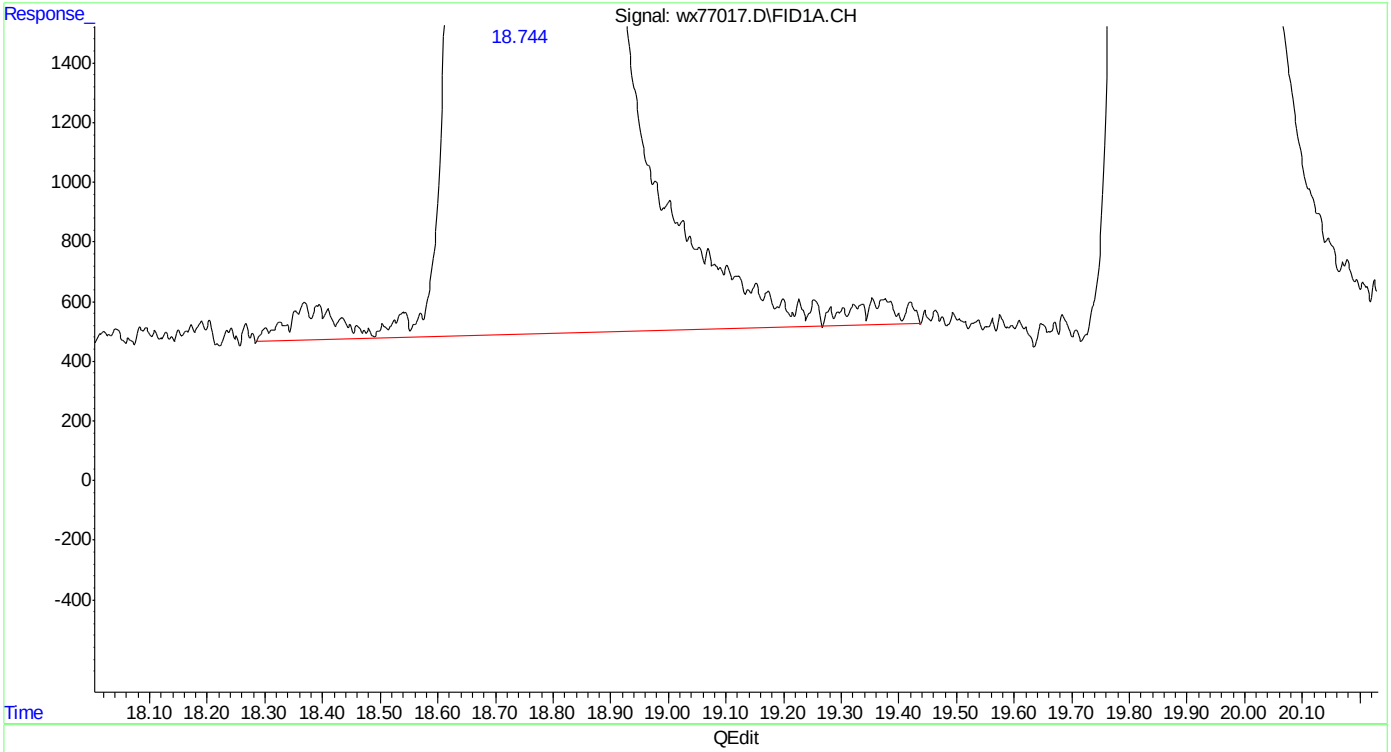
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:07 am
Operator  : tonyf
Sample    : ic3782-500,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(8) toluene

18.744min 501.610 ppb

response 17437612

(+) = Expected Retention Time

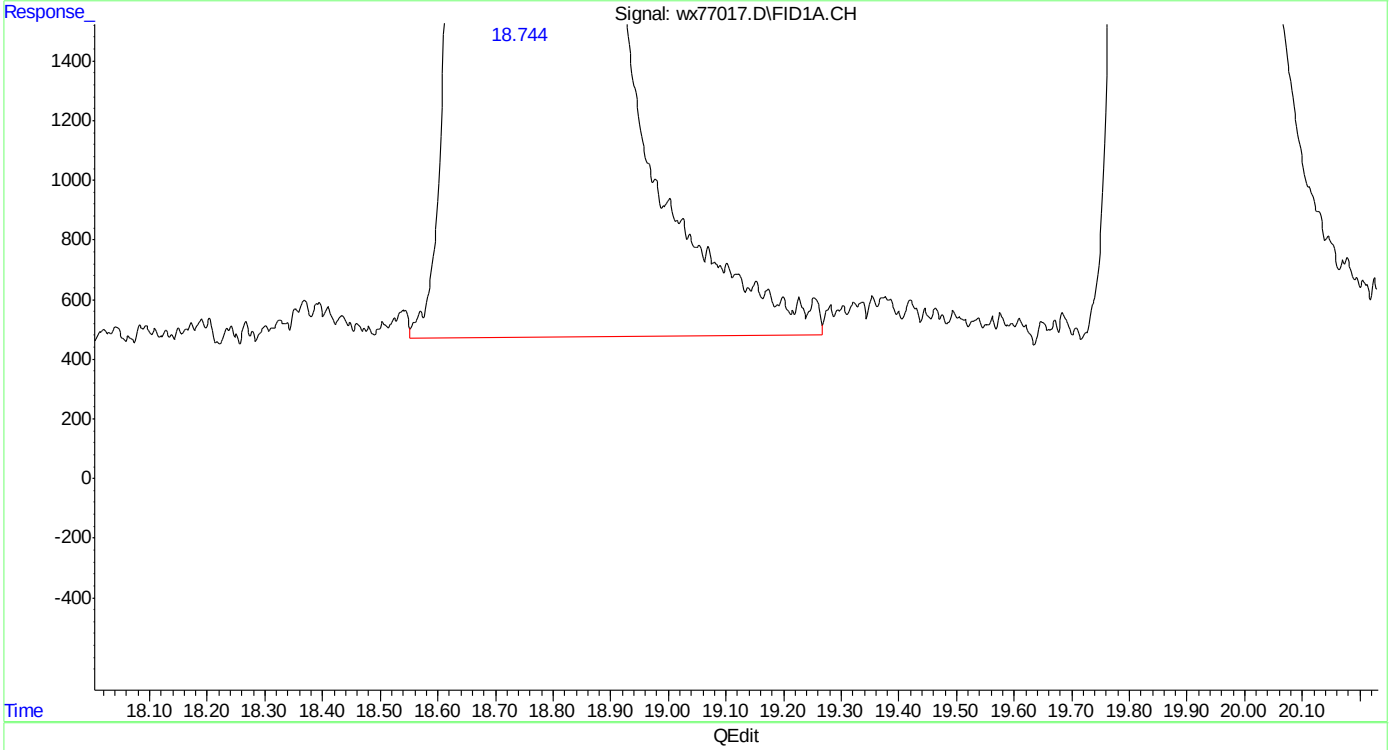
wx160602vphmaster.M Thu Jun 02 13:24:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.744min 501.492 ppb m
response 17433527

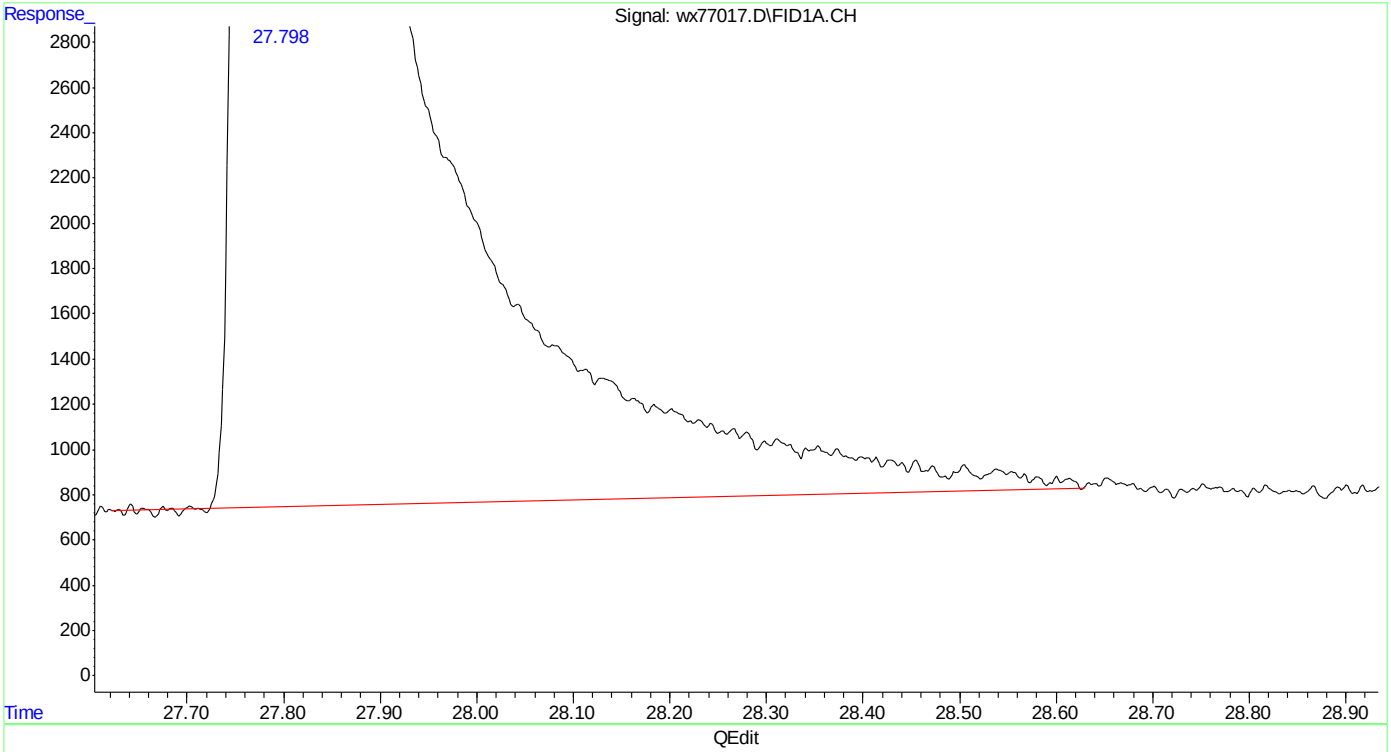
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:24:27 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.799min 507.284 ppb
response 8947124

(+) = Expected Retention Time

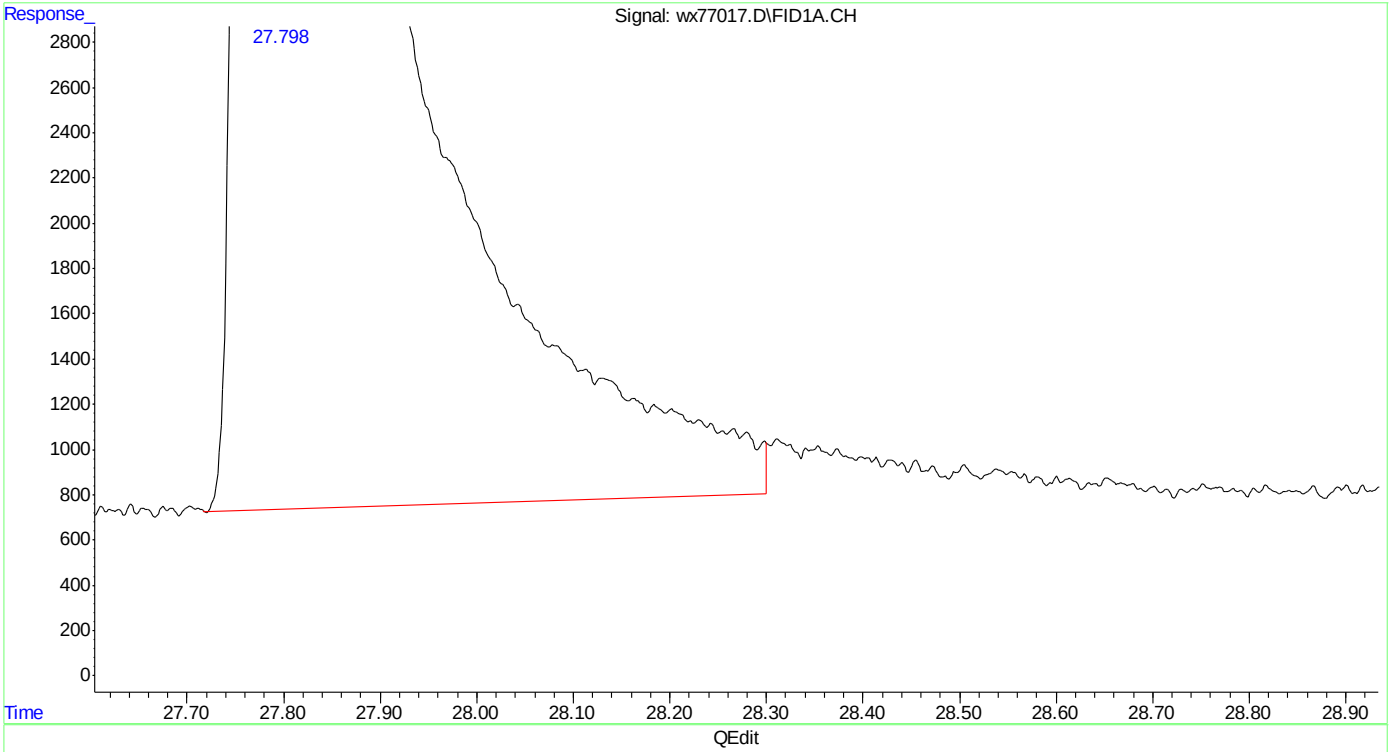
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.798min 506.126 ppb m
response 8926700

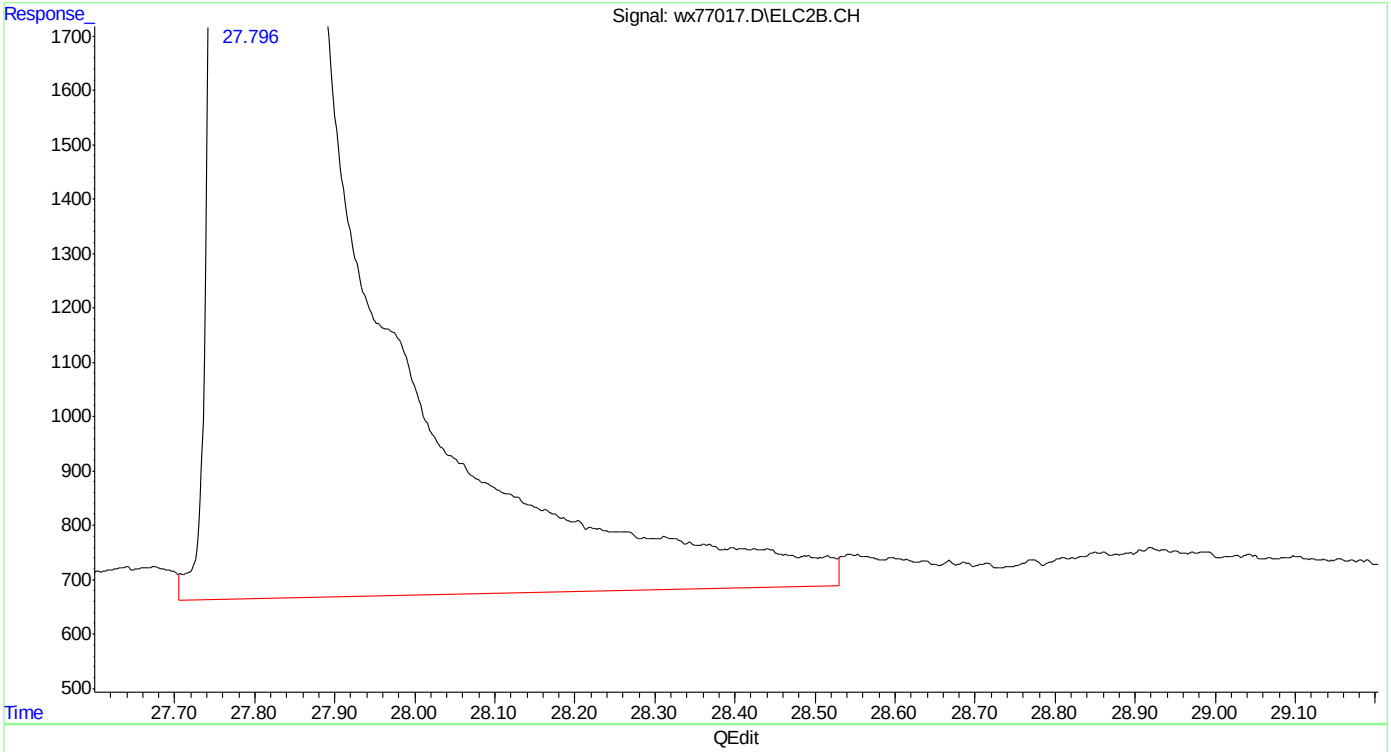
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:24:50 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:07 am
Operator  : tonyf
Sample    : ic3782-500,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.797min 478.864 ppb

response 4417715

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:25:11 2016

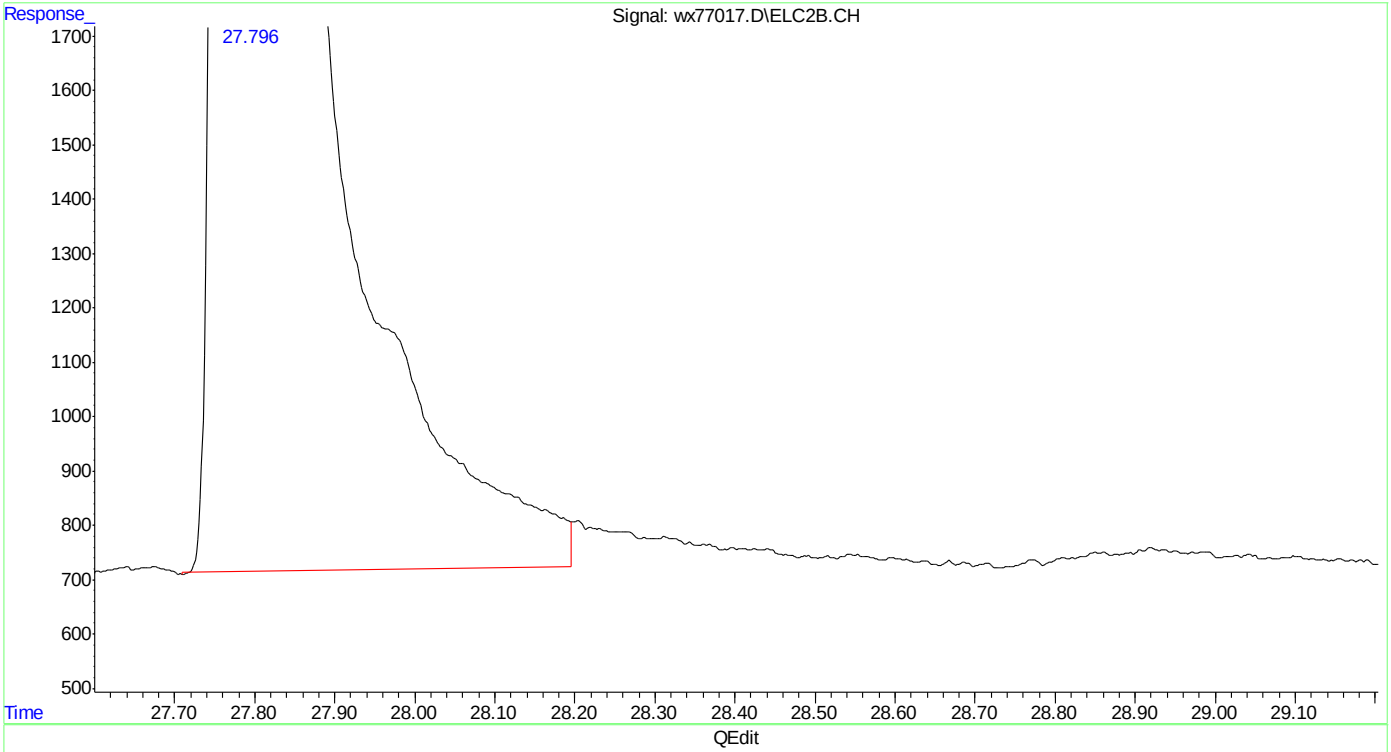
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:07 am
Operator  : tonyf
Sample    : ic3782-500,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.796min 475.514 ppb m

response 4386803

(+) = Expected Retention Time

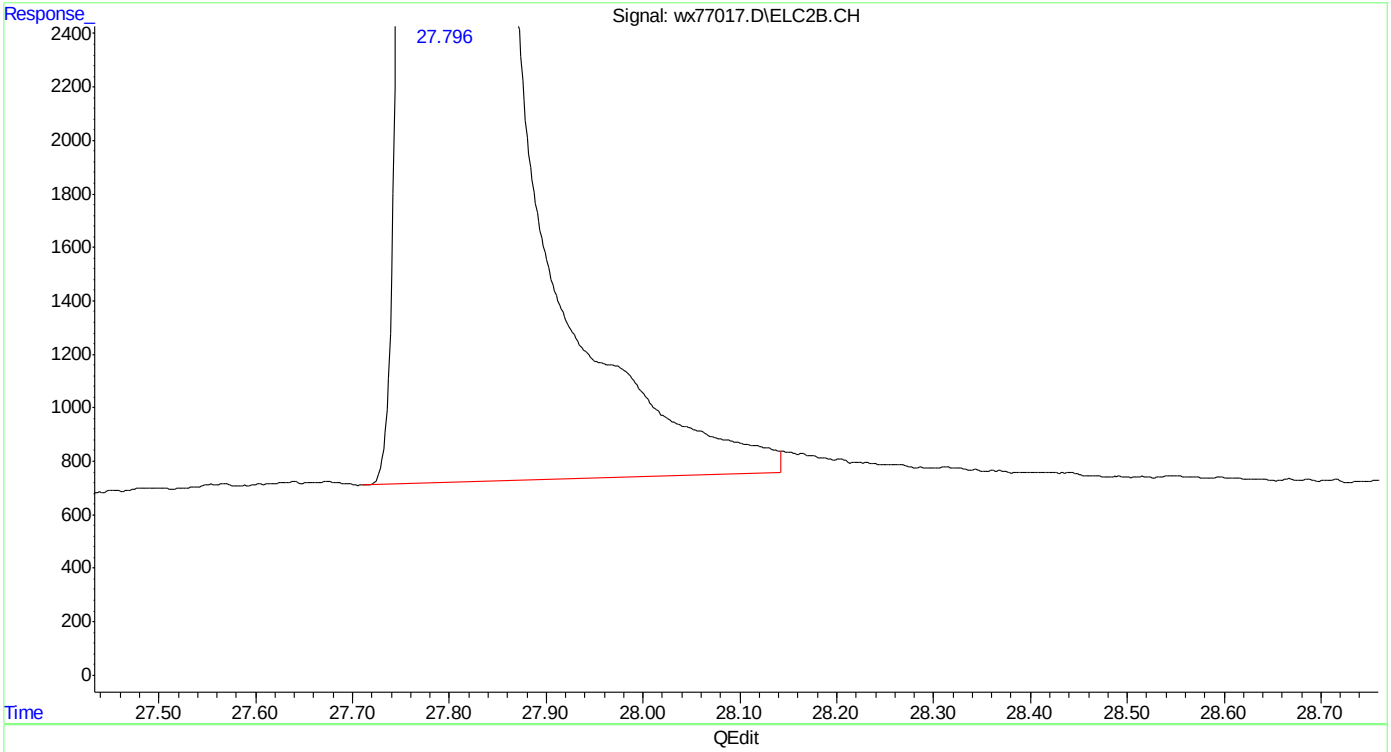
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.796min 474.734 ppb m
response 4379605

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:25:47 2016 Page: 1

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.741	6984502	247.929 ppb	
Spiked Amount 50.000		Recovery	= 495.86%	
9) s 2,3,4-trifluorotoluene	19.879	5498726	237.145 ppb	
Spiked Amount 50.000		Recovery	= 474.29%	
25) s fluorobenzene #2	14.740	2228350	242.813 ppb	
Spiked Amount 50.000		Recovery	= 485.63%	
27) s 2,3,4-trifluorotoluen...	19.878	1278389	228.369 ppb	
Spiked Amount 50.000		Recovery	= 456.74%	
Target Compounds				
1) h rt5.5-7	6.100	5076127	226.012 ppb	
2) h rt7/10	8.370	6805813	231.959 ppb	
3) mtbe	9.136	2996168	227.284 ppb	
4) h rt10/13	13.510	3812261	148.947 ppb	
5) benzene	14.235	8687516	241.735 ppb	
8) toluene	18.743	8472374	242.699 ppb	m
11) h rt20/25	21.600	7408932	192.601 ppb	
13) ethylbenzene	21.886	8301433	238.178 ppb	
14) m,p-xylene	22.035	17122240	475.389 ppb	
15) o-xylene	22.842	8560969	237.812 ppb	
16) h Decane	23.990	7278551	187.538 ppb	
17) t 1,3,5-trimethylbenzene	24.341	8995547	236.690 ppb	
18) 1,2,4-trimethylbenzene	24.870	8514638	235.046 ppb	
19) h Butylcyclohexane	25.040	7932011	193.999 ppb	
20) naphthalene	27.798	5078748	295.430 ppb	m
23) mtbe #2	9.139	1024897	222.532 ppb	m
24) benzene #2	14.235	3457919	240.625 ppb	
26) toluene #2	18.743	3121343	240.067 ppb	
28) ethylbenzene #2	21.885	2759330	237.056 ppb	
29) m,p-xylene #2	22.034	6555521	461.961 ppb	
30) o-xylene #2	22.840	2828680	240.078 ppb	
31) t 1,3,5-trimethylbenzen...	24.340	4111178	233.322 ppb	
32) 1,2,4-trimethylbenzen...	24.868	3054144	233.810 ppb	
33) naphthalene #2	27.796	2515568	276.864 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	3051870	233.732 ppb	

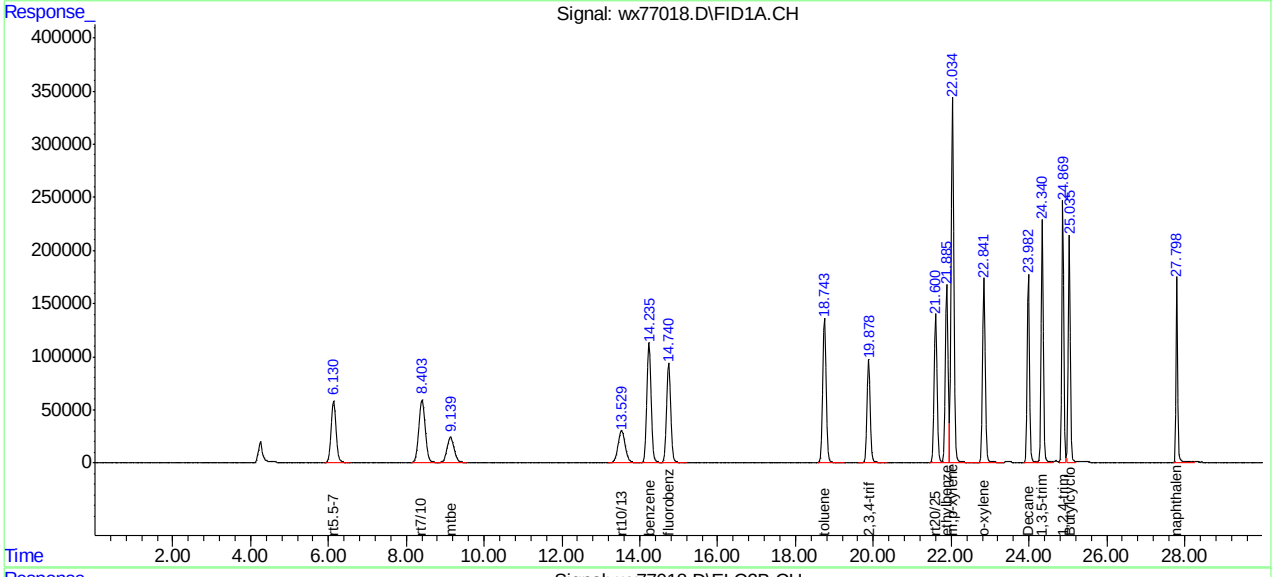
(f)=RT Delta > 1/2 Window (m)=manual int.

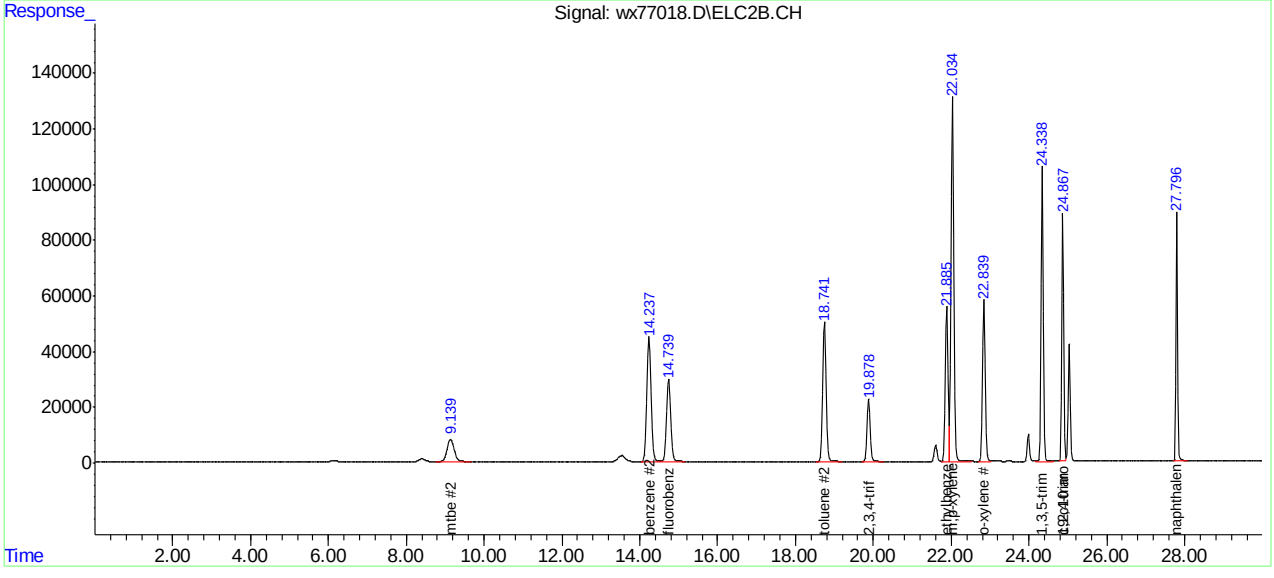
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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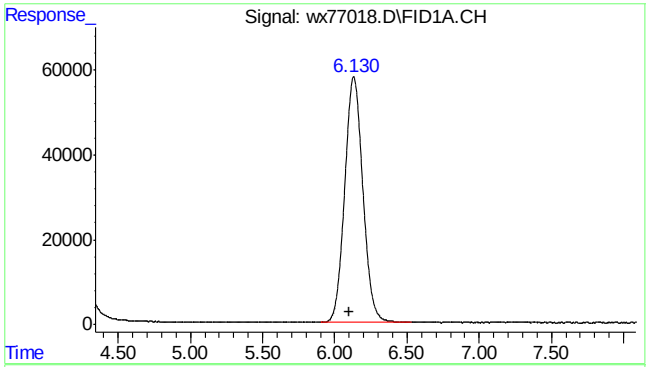
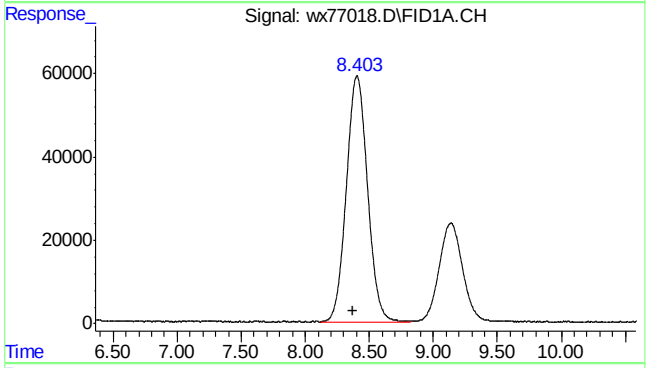


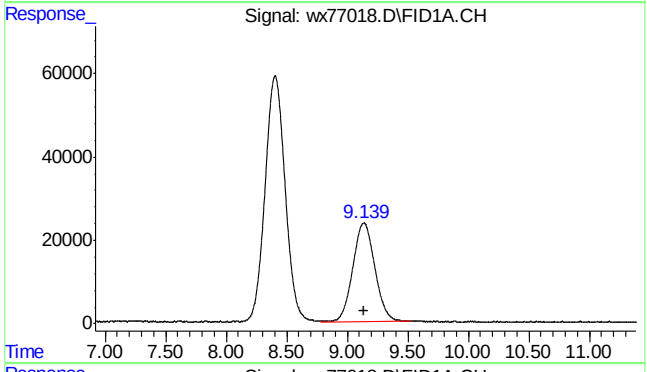
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 5076127
Conc: 226.01 ppb m



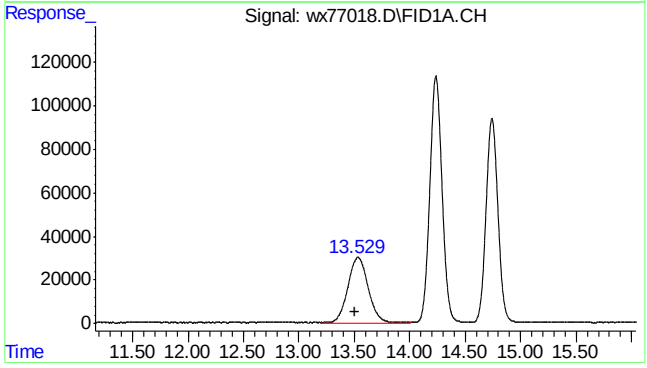
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 6805813
Conc: 231.96 ppb m



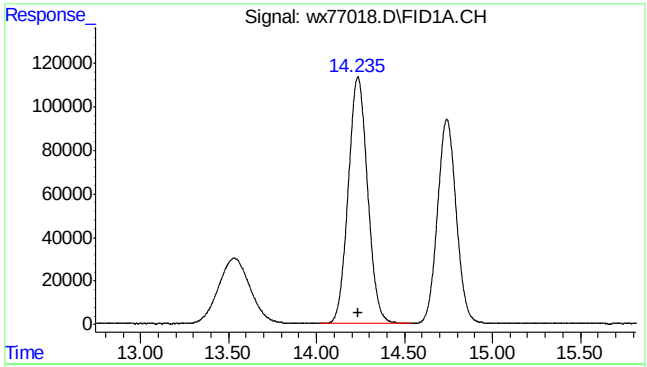
#3 mtbe

R.T.: 9.136 min
Delta R.T.: -0.003 min
Response: 2996168
Conc: 227.28 ppb



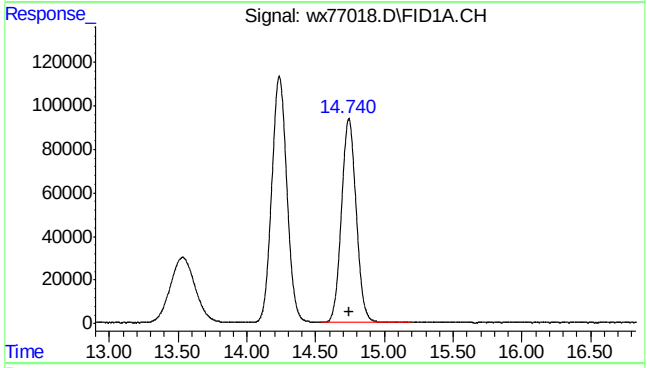
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 3812261
Conc: 148.95 ppb m



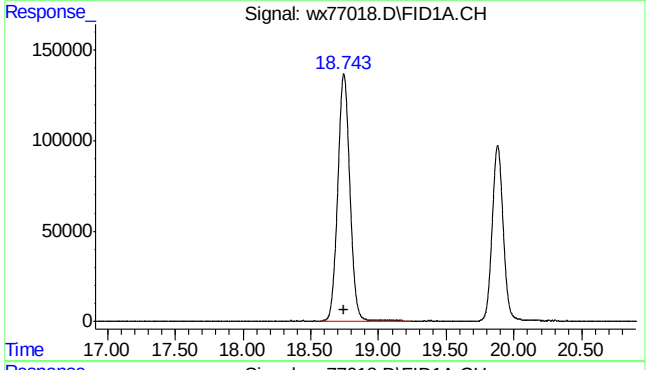
#5 benzene

R.T.: 14.235 min
Delta R.T.: -0.002 min
Response: 8687516
Conc: 241.74 ppb



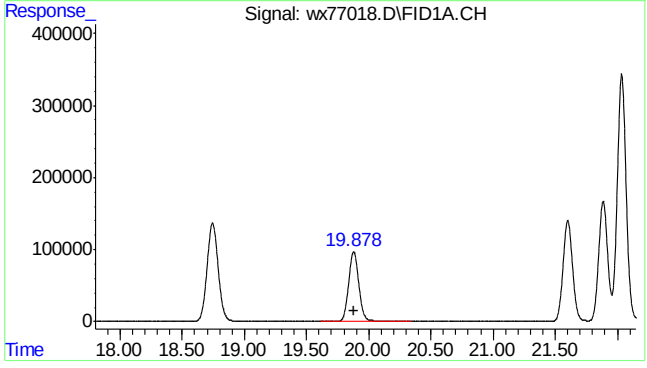
#6 fluorobenzene

R.T.: 14.741 min
Delta R.T.: -0.002 min
Response: 6984502
Conc: 247.93 ppb



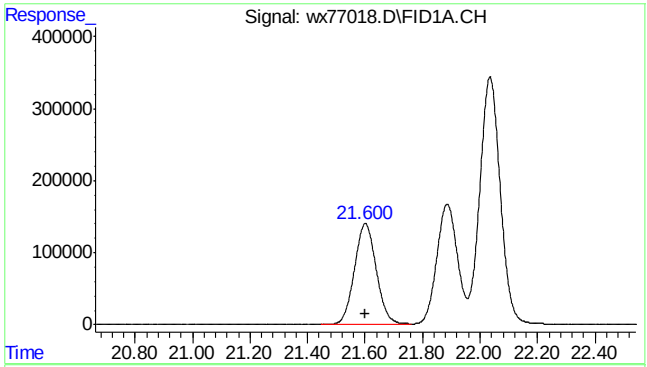
#8 toluene

R.T.: 18.743 min
Delta R.T.: -0.002 min
Response: 8472374
Conc: 242.70 ppb m



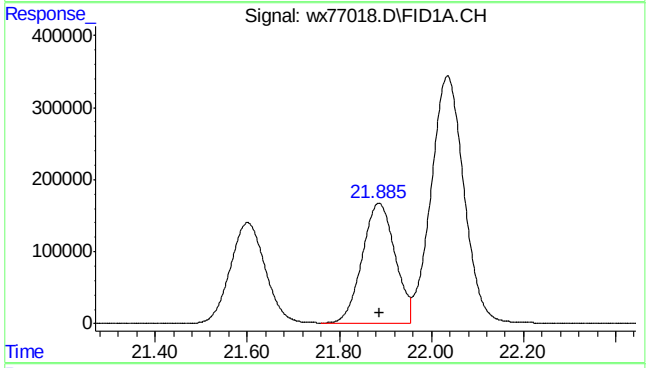
#9 2,3,4-trifluorotoluene

R.T.: 19.879 min
Delta R.T.: -0.002 min
Response: 5498726
Conc: 237.14 ppb



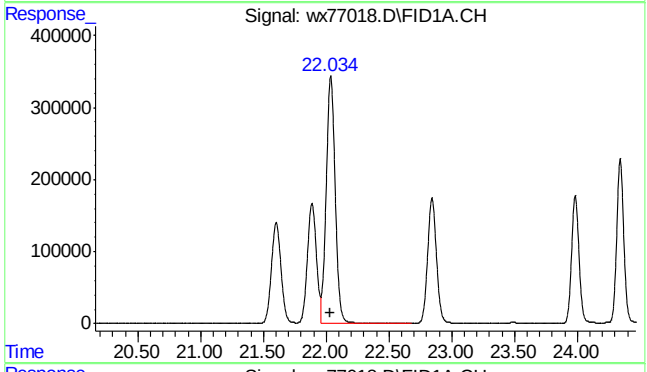
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 7408932
Conc: 192.60 ppb m



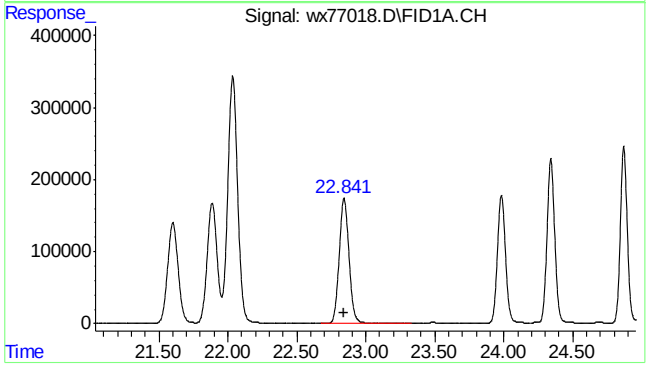
#13 ethylbenzene

R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 8301433
Conc: 238.18 ppb



#14 m,p-xylene

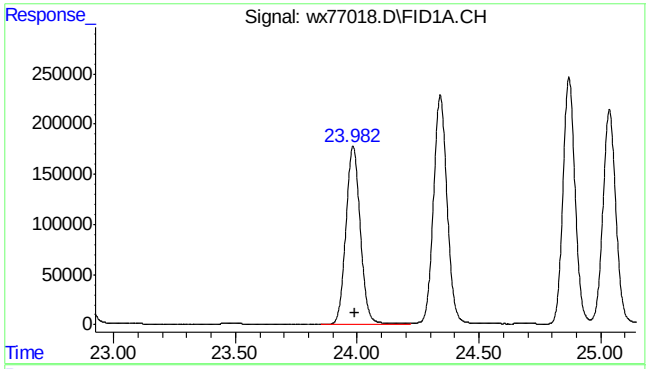
R.T.: 22.035 min
Delta R.T.: 0.000 min
Response: 17122240
Conc: 475.39 ppb



#15 o-xylene

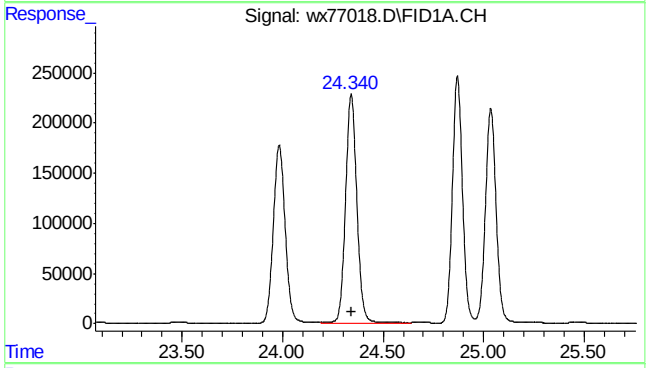
R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 8560969
Conc: 237.81 ppb

SGS ACCUTEST MC46340



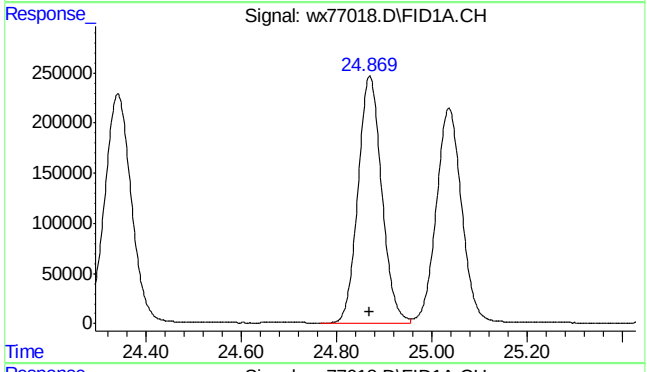
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 7278551
Conc: 187.54 ppb m



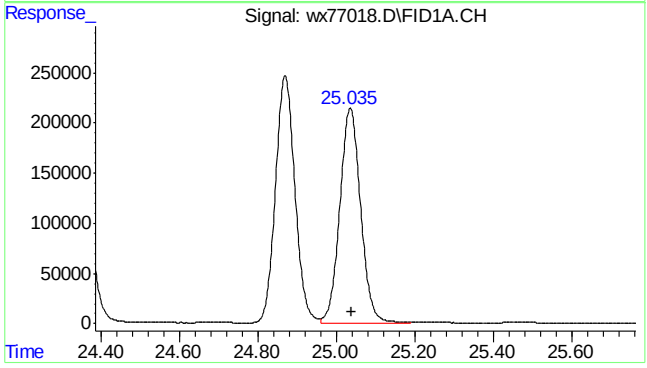
#17 1,3,5-trimethylbenzene

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 8995547
Conc: 236.69 ppb



#18 1,2,4-trimethylbenzene

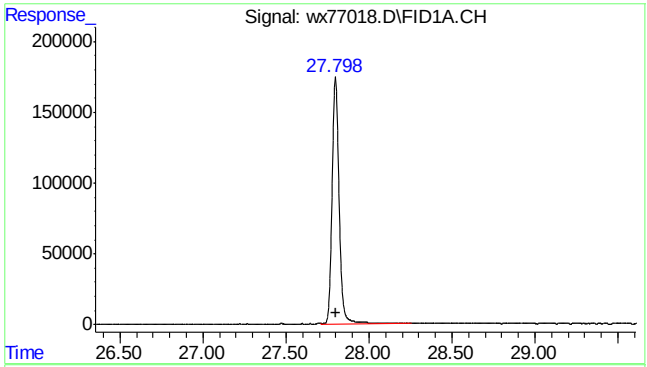
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 8514638
Conc: 235.05 ppb



#19 Butylcyclohexane

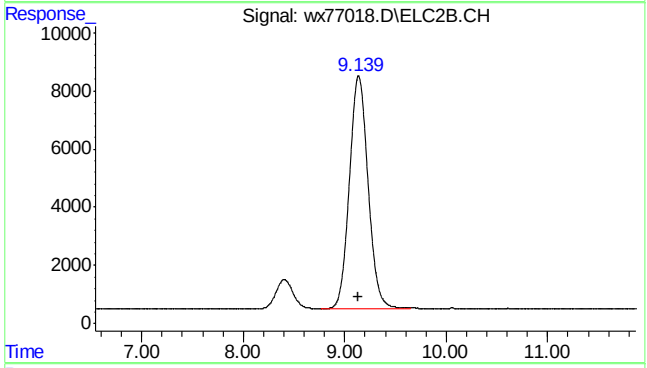
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 7932011
Conc: 194.00 ppb m

SGS ACCUTEST MC46340



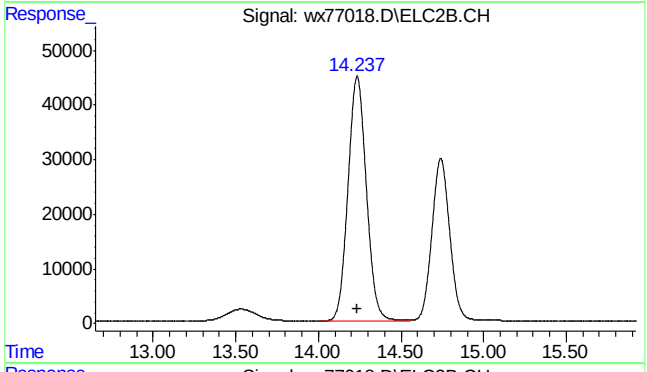
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 5078748
Conc: 295.43 ppb m



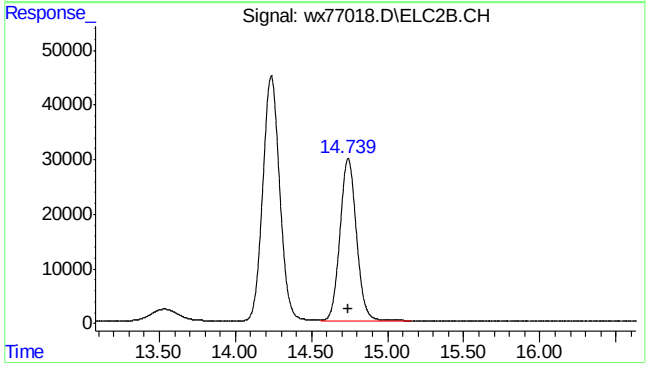
#23 mtbe #2

R.T.: 9.139 min
Delta R.T.: 0.000 min
Response: 1024897
Conc: 222.53 ppb m



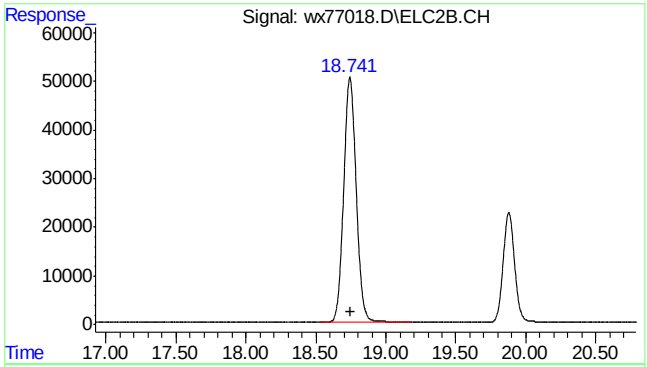
#24 benzene #2

R.T.: 14.235 min
Delta R.T.: -0.002 min
Response: 3457919
Conc: 240.62 ppb



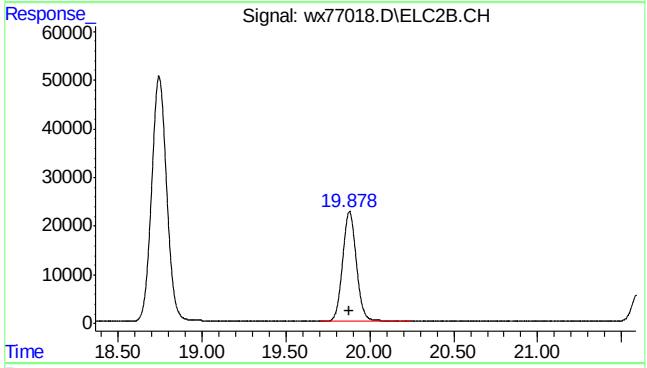
#25 fluorobenzene #2

R.T.: 14.740 min
Delta R.T.: -0.002 min
Response: 2228350
Conc: 242.81 ppb



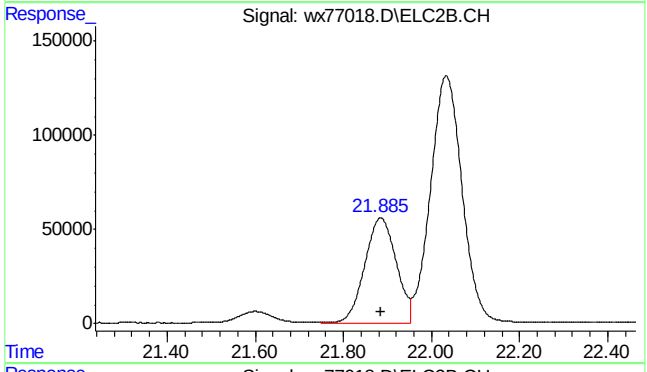
#26 toluene #2

R.T.: 18.743 min
Delta R.T.: -0.002 min
Response: 3121343
Conc: 240.07 ppb



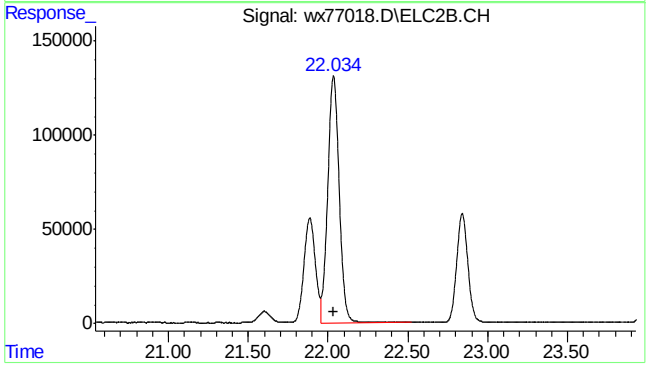
#27 2,3,4-trifluorotoluene #2

R.T.: 19.878 min
Delta R.T.: -0.002 min
Response: 1278389
Conc: 228.37 ppb



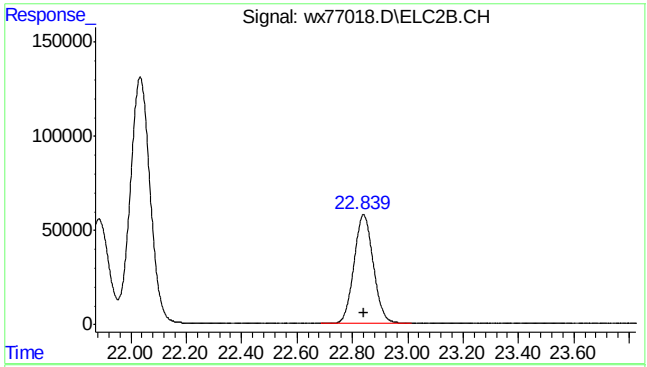
#28 ethylbenzene #2

R.T.: 21.885 min
Delta R.T.: -0.001 min
Response: 2759330
Conc: 237.06 ppb



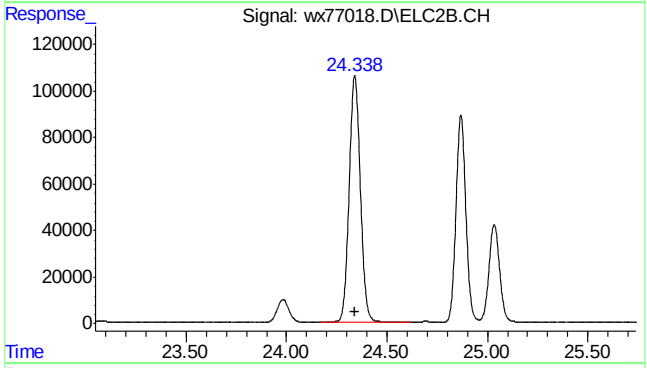
#29 m,p-xylene #2

R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 6555521
Conc: 461.96 ppb



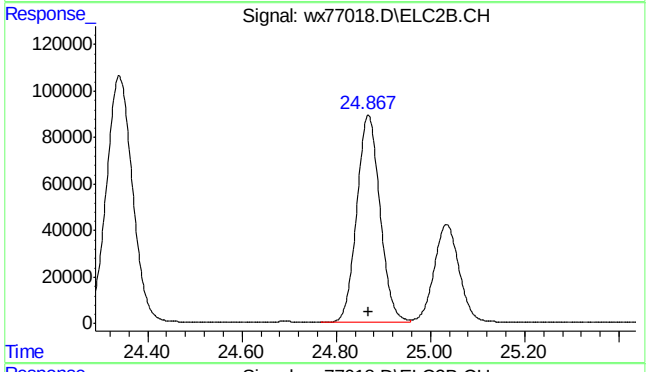
#30 o-xylene #2

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 2828680
Conc: 240.08 ppb



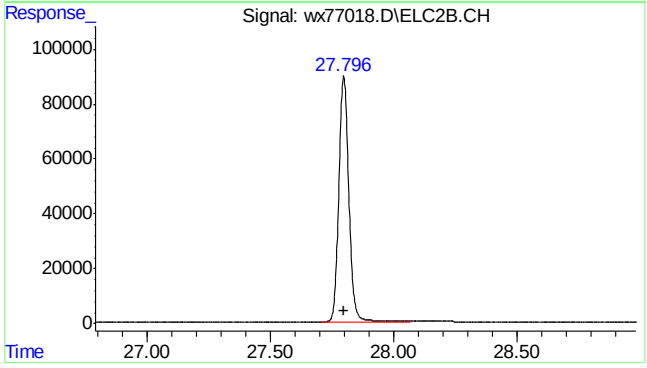
#31 1,3,5-trimethylbenzene #2

R.T.: 24.340 min
Delta R.T.: 0.000 min
Response: 4111178
Conc: 233.32 ppb



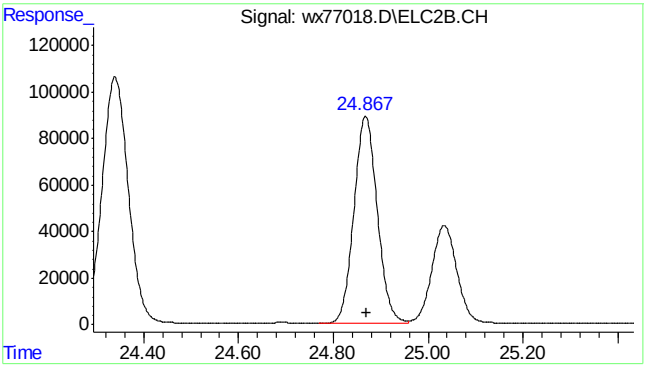
#32 1,2,4-trimethylbenzene #2

R.T.: 24.868 min
Delta R.T.: 0.000 min
Response: 3054144
Conc: 233.81 ppb



#33 naphthalene #2

R.T.: 27.796 min
Delta R.T.: 0.000 min
Response: 2515568
Conc: 276.86 ppb m



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

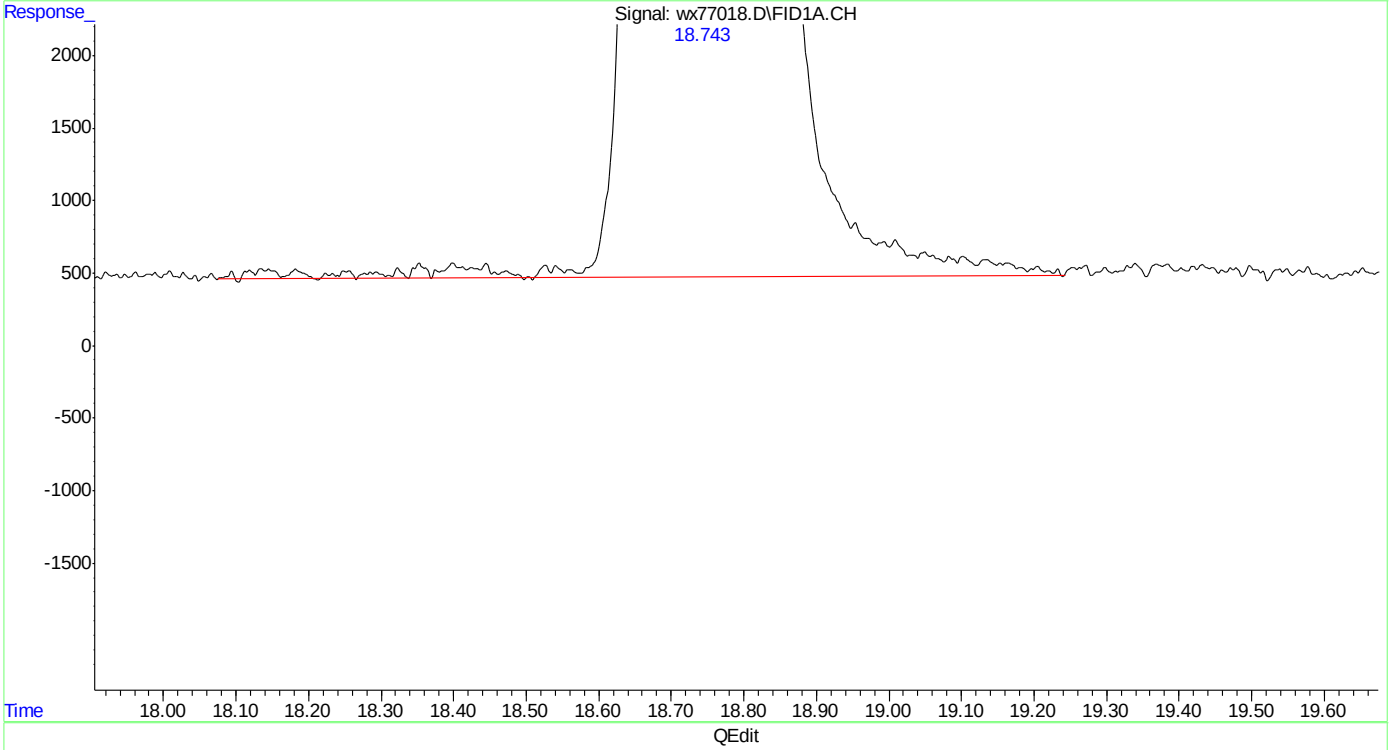
```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:   3051870
      Conc: 233.73 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.744min 242.887 ppb
response 8478926

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:21:55 2016

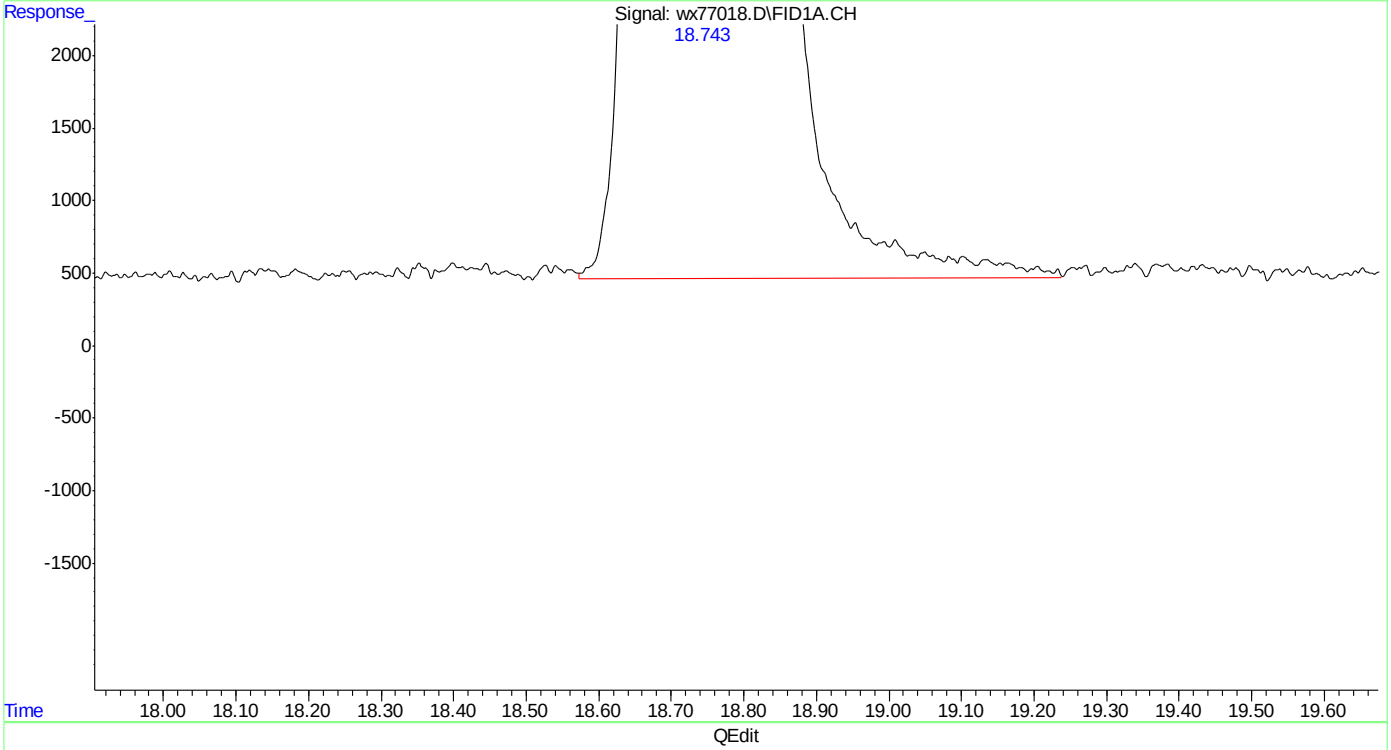
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:44 am
Operator  : tonyf
Sample    : ic3782-250,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(8) toluene

18.743min 242.699 ppb m

response 8472374

(+) = Expected Retention Time

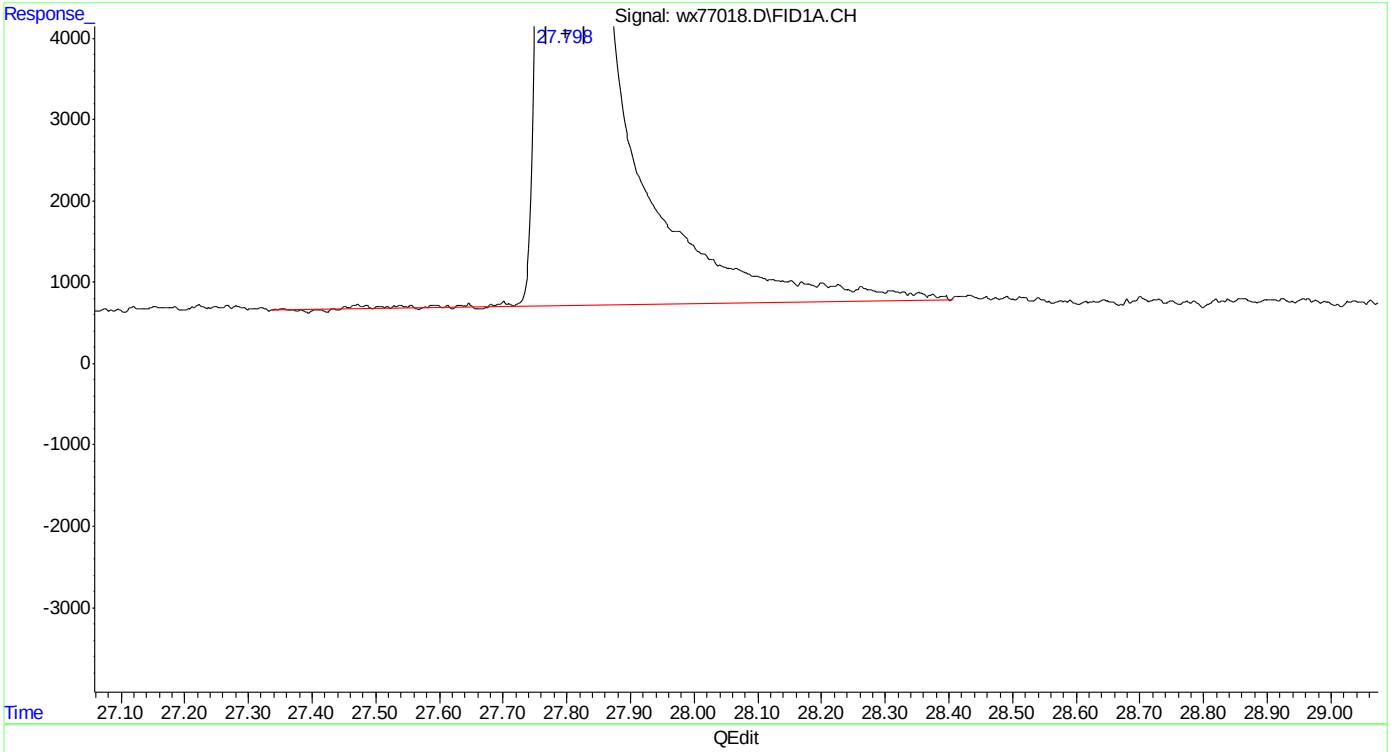
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:44 am
Operator  : tonyf
Sample    : ic3782-250,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.799min 295.807 ppb

response 5085220

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:22:23 2016 Page: 1

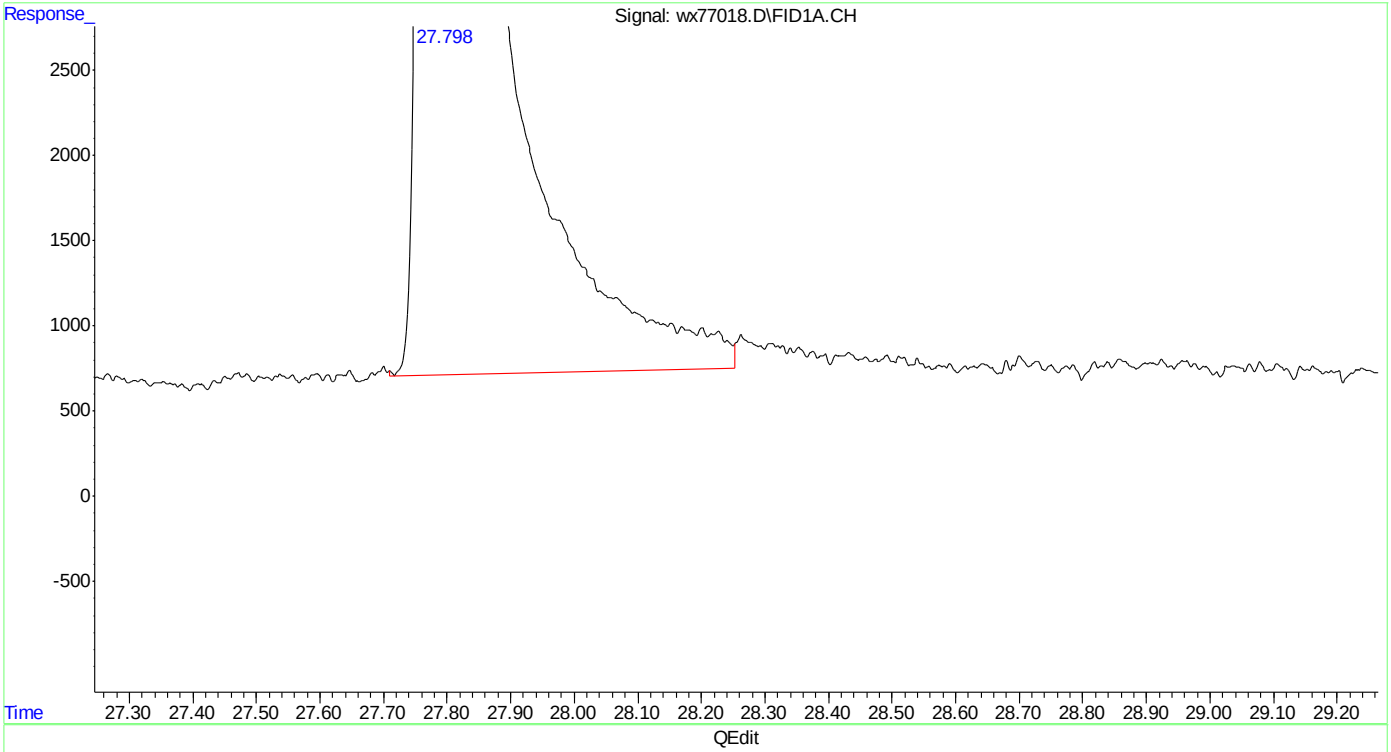
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.798min 295.430 ppb m
response 5078748

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:22:33 2016

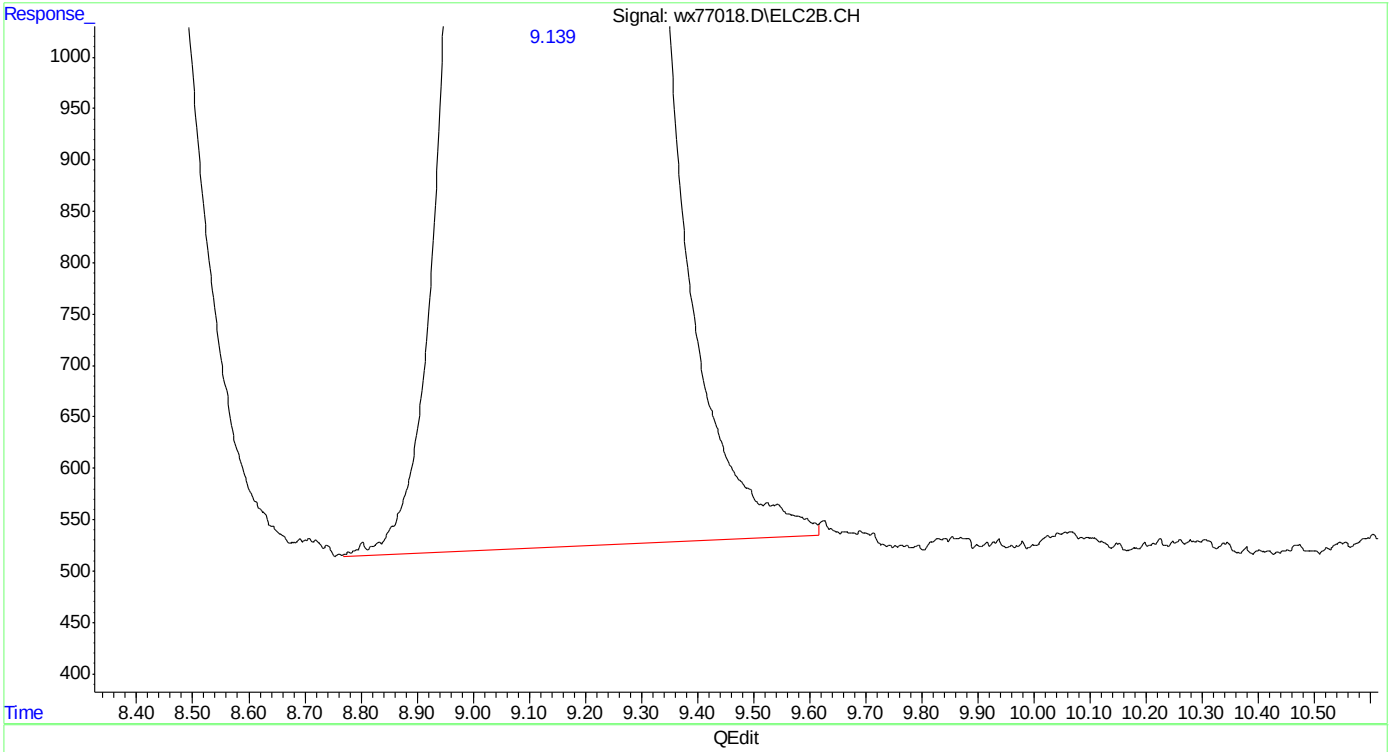
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.137min 221.301 ppb
response 1019226

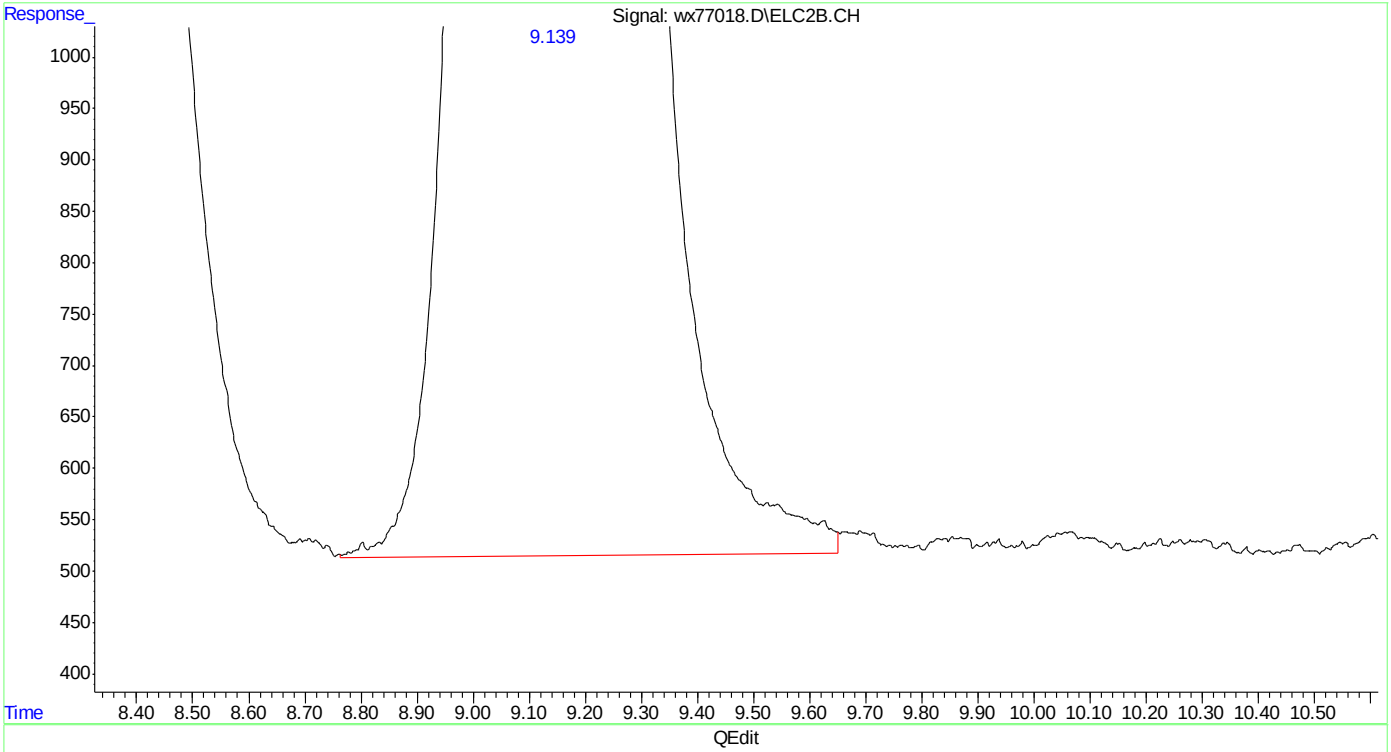
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:22:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.139min 222.532 ppb m
response 1024897

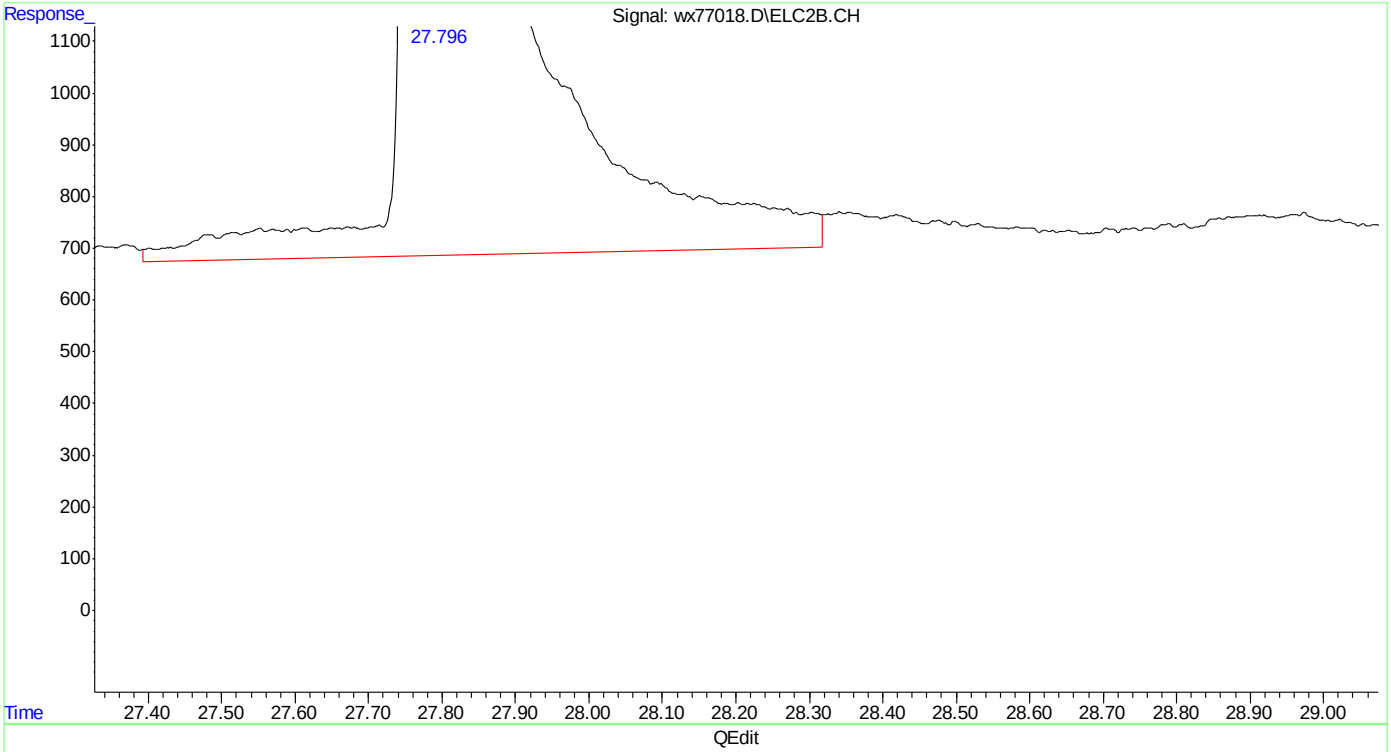
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:22:44 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 280.774 ppb
response 2551093

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:23:00 2016

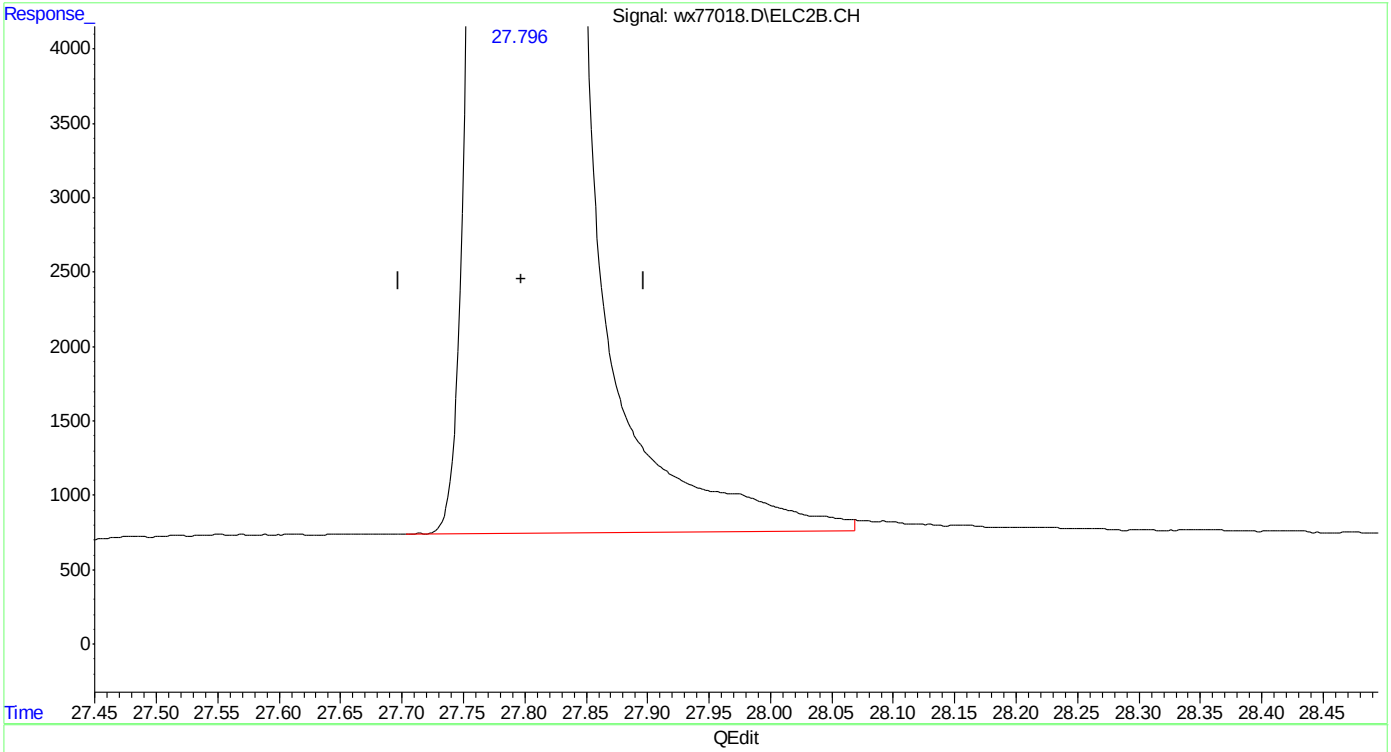
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.796min 276.864 ppb m
response 2515568

(+) = Expected Retention Time

SGS ACCUTEST MC46340

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 12:01:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.743	2826290	100.517	ppb	
Spiked Amount 50.000		Recovery = 201.03%			
9) s 2,3,4-trifluorotoluene	19.880	2219923	97.627	ppb	
Spiked Amount 50.000		Recovery = 195.25%			
25) s fluorobenzene #2	14.743	903308	100.123	ppb	
Spiked Amount 50.000		Recovery = 200.25%			
27) s 2,3,4-trifluorotoluen...	19.880	521719	97.351	ppb	
Spiked Amount 50.000		Recovery = 194.70%			
Target Compounds					
1) h rt5.5-7	6.100	2087396	91.048	ppb	
2) h rt7/10	8.370	2764741	93.648	ppb	
3) mtbe	9.139f	1257880	94.125	ppb	
4) h rt10/13	13.510	1883245	71.805	ppb	
5) benzene	14.237	3513605	98.513	ppb	
8) toluene	18.745	3420737	97.412	ppb	
11) h rt20/25	21.600	3087753	89.334	ppb	
13) ethylbenzene	21.887	3374612	97.310	ppb	
14) m,p-xylene	22.035	6965715	194.485	ppb	
15) o-xylene	22.843	3434927	96.515	ppb	
16) h Decane	23.990	3086985	87.001	ppb	
17) t 1,3,5-trimethylbenzene	24.341	3639999	97.763	ppb	
18) 1,2,4-trimethylbenzene	24.870	3444658	96.322	ppb	
19) h Butylcyclohexane	25.040	3278591	89.062	ppb	
20) naphthalene	27.799	2113347	110.860	ppb	m
23) mtbe #2	9.138	427488	94.513	ppb	m
24) benzene #2	14.237	1402945	98.089	ppb	
26) toluene #2	18.745	1276447	98.678	ppb	
28) ethylbenzene #2	21.886	1130404	98.279	ppb	
29) m,p-xylene #2	22.034	2729335	194.417	ppb	
30) o-xylene #2	22.841	1154871	98.238	ppb	m
31) t 1,3,5-trimethylbenzen...	24.340	1687926	97.616	ppb	
32) 1,2,4-trimethylbenzen...	24.869	1249788	97.780	ppb	
33) naphthalene #2	27.797	1060250	108.698	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	1248686	97.804	ppb	

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

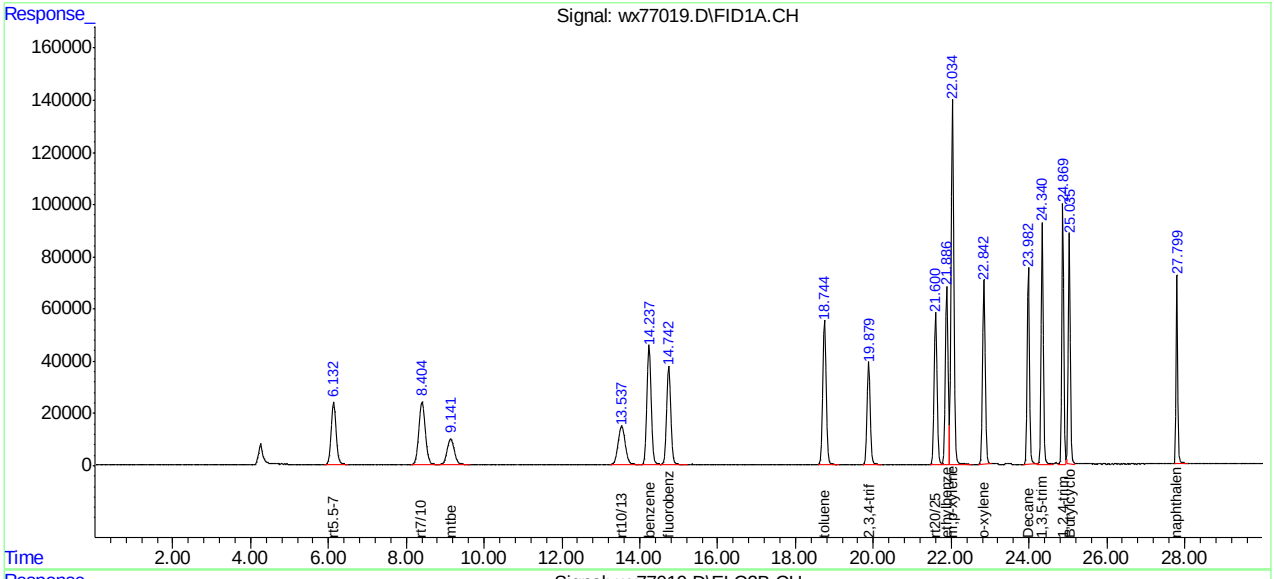
SGS ACCUTEST MC46340

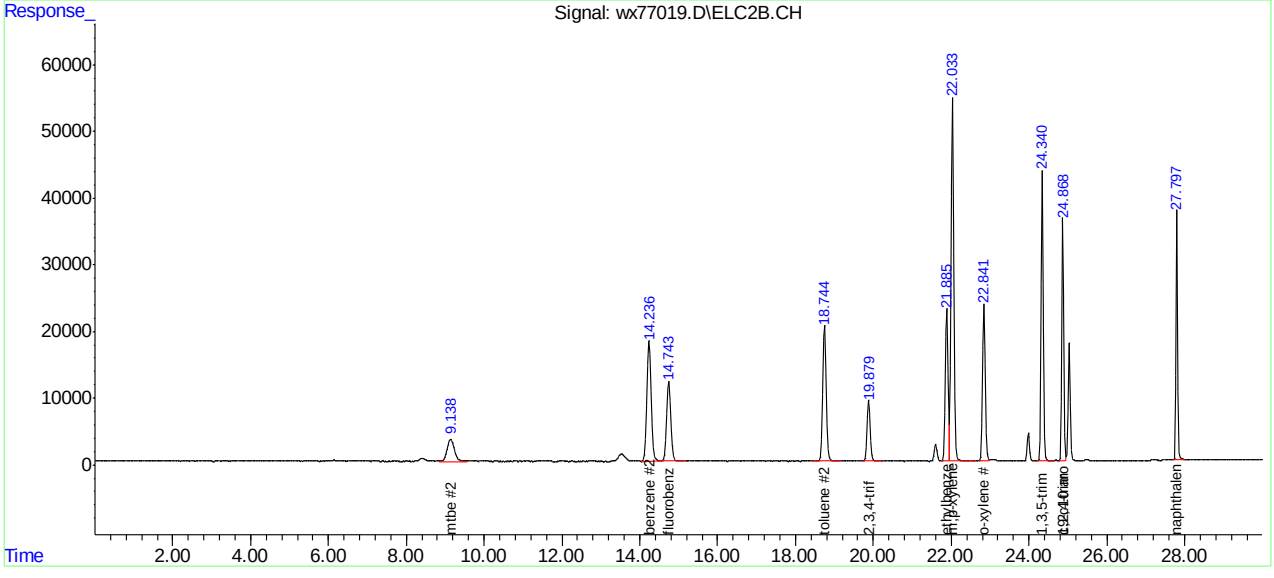
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

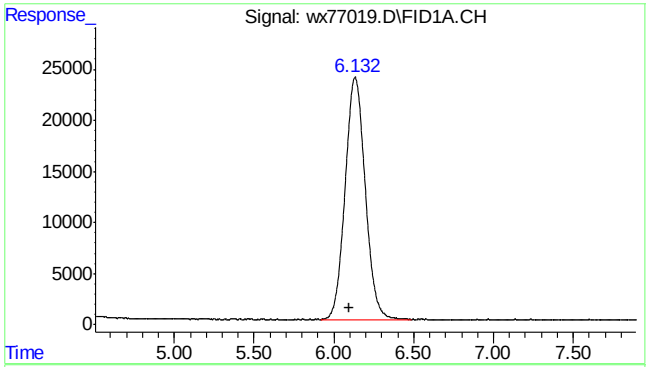
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 12:01:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



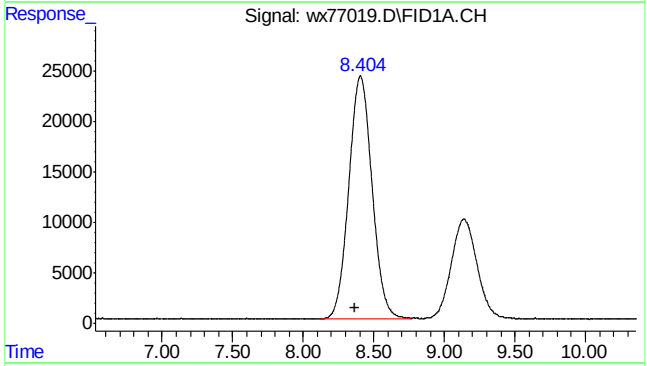


SGS ACCUTEST MC46340



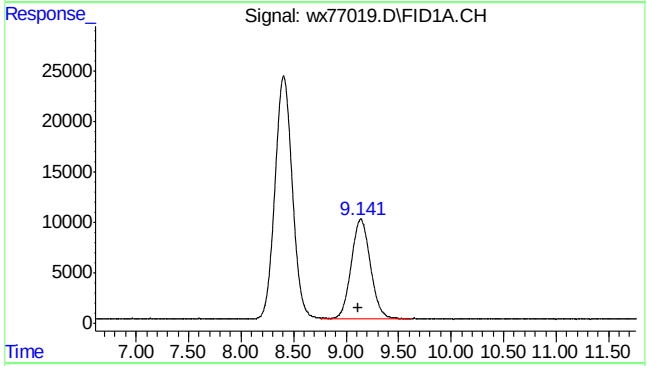
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 2087396
Conc: 91.05 ppb m



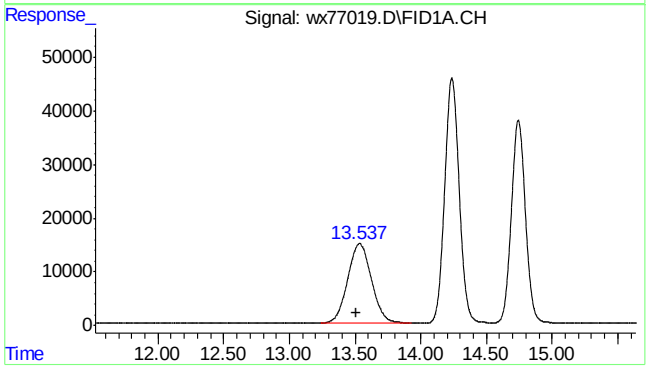
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 2764741
Conc: 93.65 ppb m



#3 mtbe

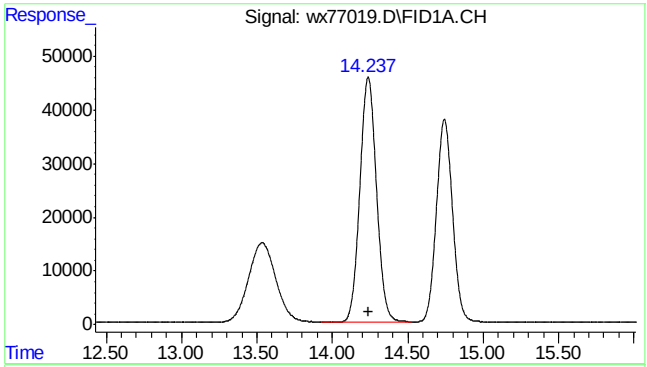
R.T.: 9.139 min
Delta R.T.: 0.019 min
Response: 1257880
Conc: 94.12 ppb



#4 rt10/13

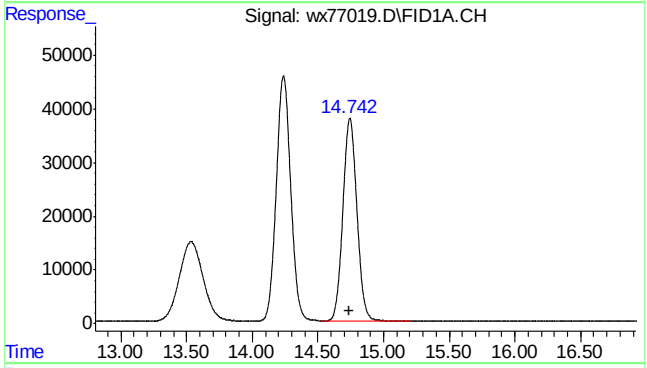
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1883245
Conc: 71.81 ppb m

SGS ACCUTEST MC46340



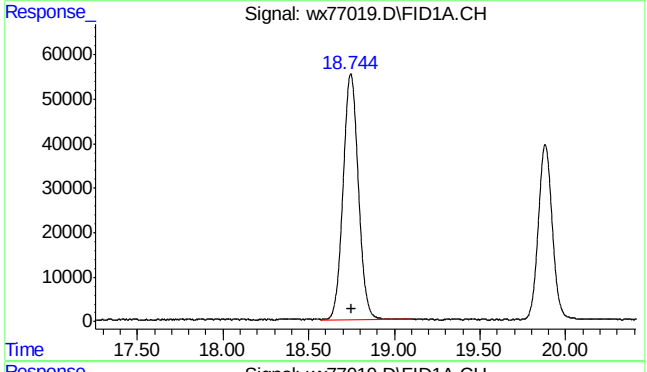
#5 benzene

R.T.: 14.237 min
Delta R.T.: -0.006 min
Response: 3513605
Conc: 98.51 ppb



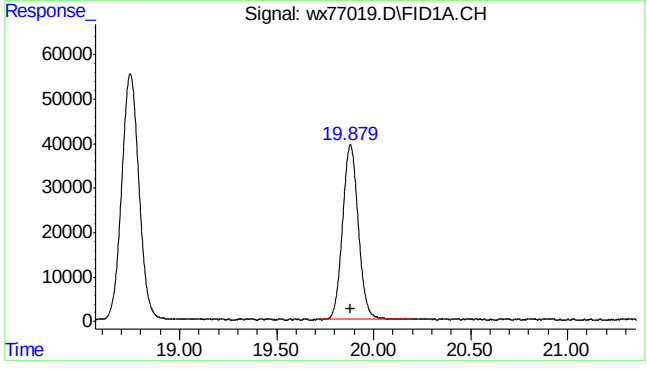
#6 fluorobenzene

R.T.: 14.743 min
Delta R.T.: 0.000 min
Response: 2826290
Conc: 100.52 ppb



#8 toluene

R.T.: 18.745 min
Delta R.T.: -0.005 min
Response: 3420737
Conc: 97.41 ppb



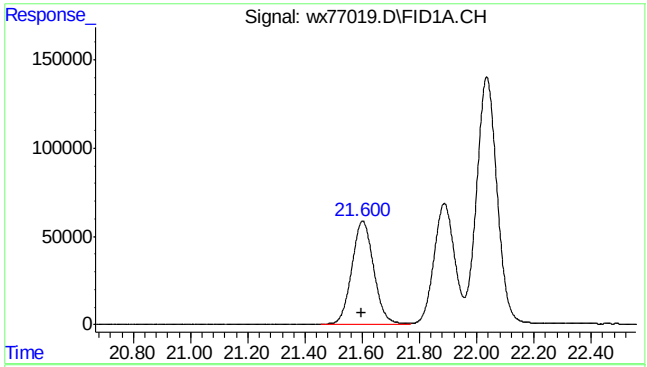
#9 2,3,4-trifluorotoluene

R.T.: 19.880 min
Delta R.T.: -0.002 min
Response: 2219923
Conc: 97.63 ppb

7.5.4

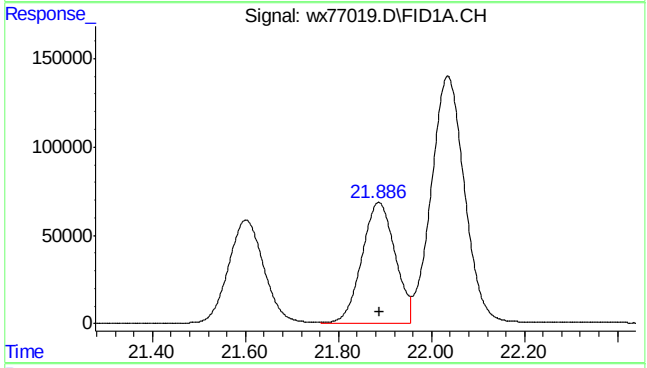
7

SGS ACCUTEST MC46340



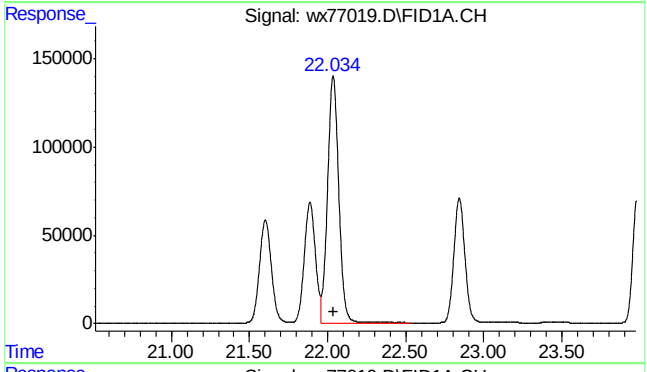
#11 rt20/25

```
      R.T.:   21.600 min
Delta R.T.:    0.000 min
  Response:   3087753
      Conc:  89.33 ppb m
```



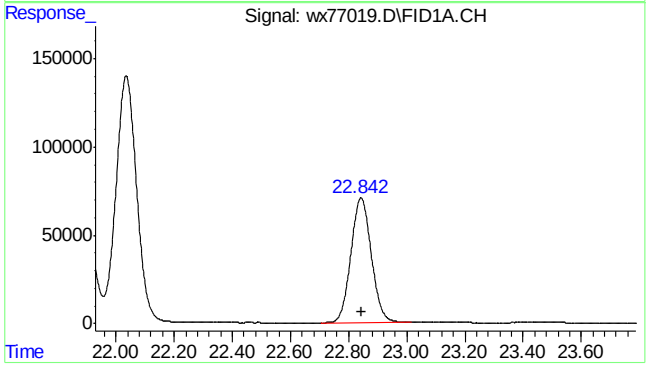
#13 ethylbenzene

```
      R.T.:   21.887 min
Delta R.T.:   -0.002 min
  Response:   3374612
      Conc:  97.31 ppb
```



#14 m,p-xylene

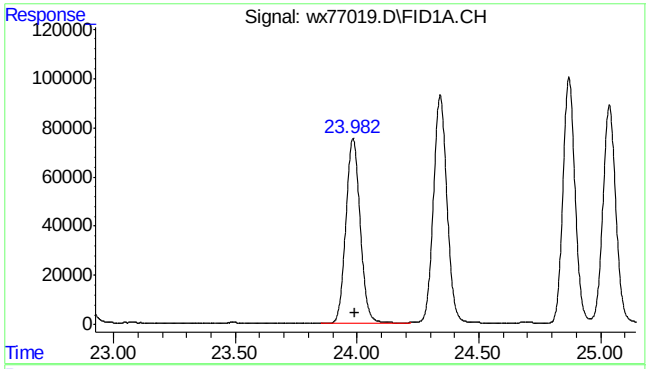
```
      R.T.:   22.035 min
Delta R.T.:   -0.002 min
  Response:   6965715
      Conc: 194.48 ppb
```



#15 o-xylene

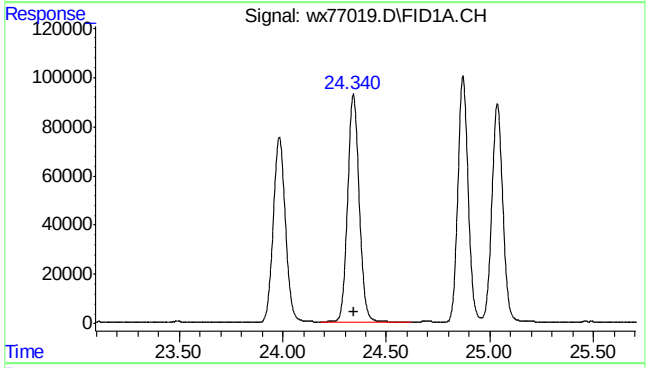
```
      R.T.:   22.843 min
Delta R.T.:    0.000 min
  Response:   3434927
      Conc:  96.51 ppb
```


SGS ACCUTEST MC46340



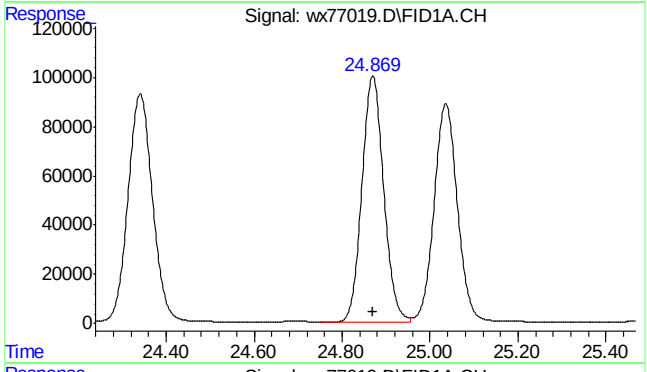
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 3086985
Conc: 87.00 ppb m



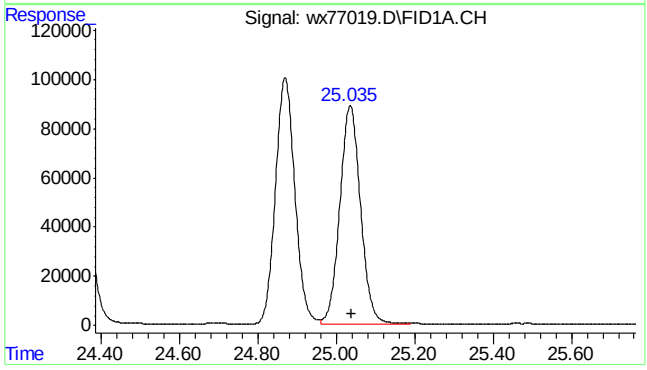
#17 1,3,5-trimethylbenzene

R.T.: 24.341 min
Delta R.T.: -0.001 min
Response: 3639999
Conc: 97.76 ppb



#18 1,2,4-trimethylbenzene

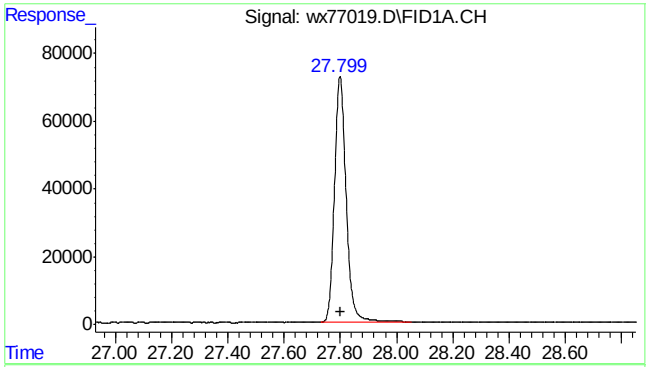
R.T.: 24.870 min
Delta R.T.: -0.001 min
Response: 3444658
Conc: 96.32 ppb



#19 Butylcyclohexane

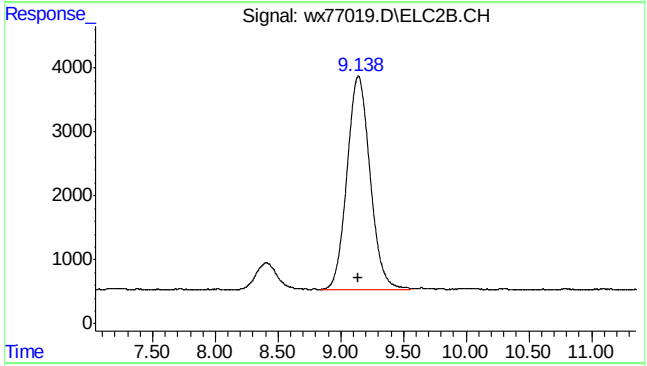
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 3278591
Conc: 89.06 ppb m

SGS ACCUTEST MC46340



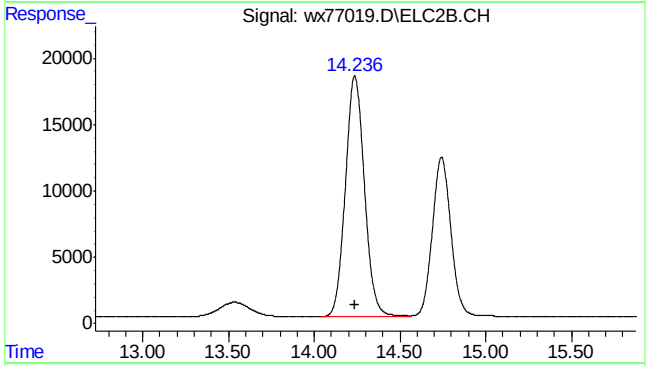
#20 naphthalene

R.T.: 27.799 min
Delta R.T.: -0.002 min
Response: 2113347
Conc: 110.86 ppb m



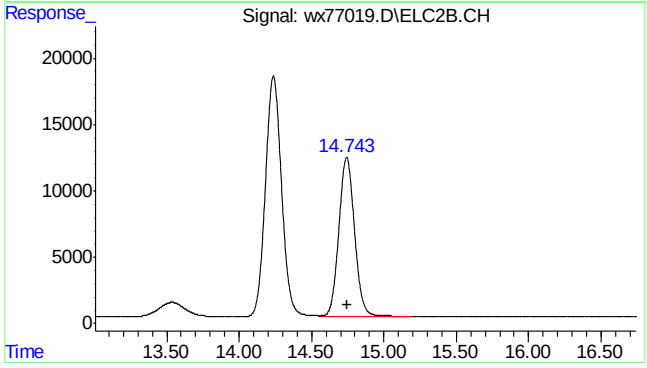
#23 mtbe #2

R.T.: 9.138 min
Delta R.T.: -0.007 min
Response: 427488
Conc: 94.51 ppb m



#24 benzene #2

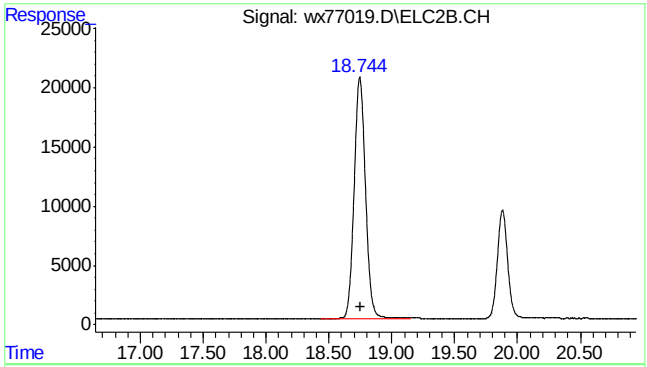
R.T.: 14.237 min
Delta R.T.: -0.003 min
Response: 1402945
Conc: 98.09 ppb



#25 fluorobenzene #2

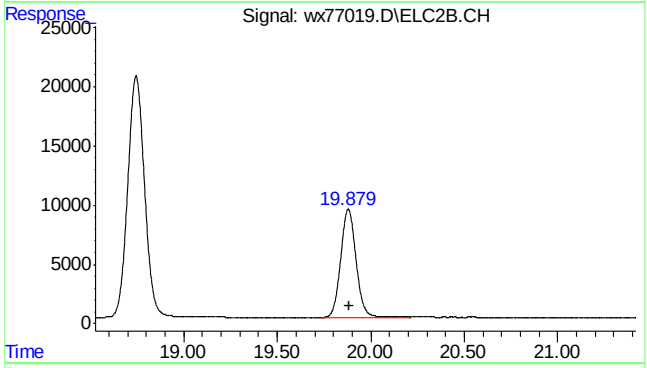
R.T.: 14.743 min
Delta R.T.: -0.007 min
Response: 903308
Conc: 100.12 ppb

SGS ACCUTEST MC46340



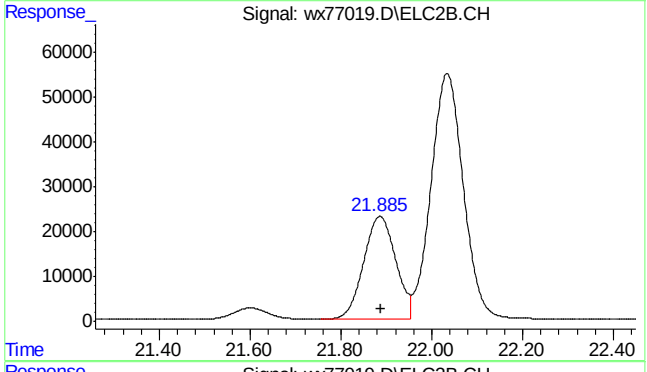
#26 toluene #2

R.T.: 18.745 min
Delta R.T.: -0.005 min
Response: 1276447
Conc: 98.68 ppb



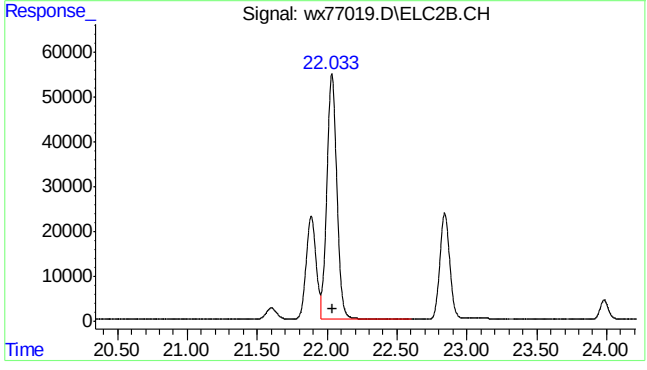
#27 2,3,4-trifluorotoluene #2

R.T.: 19.880 min
Delta R.T.: -0.006 min
Response: 521719
Conc: 97.35 ppb



#28 ethylbenzene #2

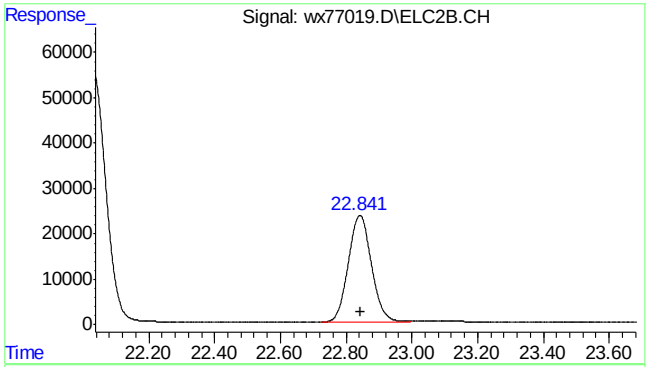
R.T.: 21.886 min
Delta R.T.: -0.003 min
Response: 1130404
Conc: 98.28 ppb



#29 m,p-xylene #2

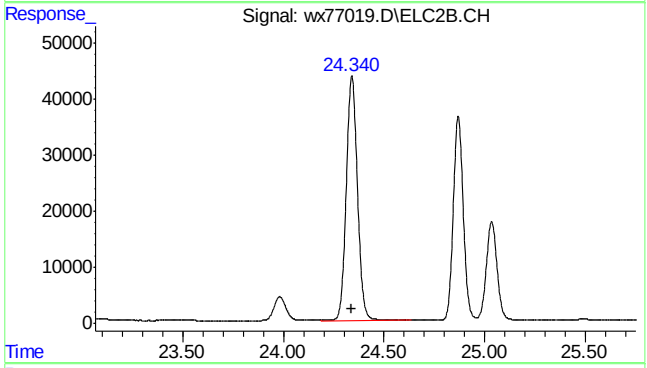
R.T.: 22.034 min
Delta R.T.: -0.003 min
Response: 2729335
Conc: 194.42 ppb

SGS ACCUTEST MC46340



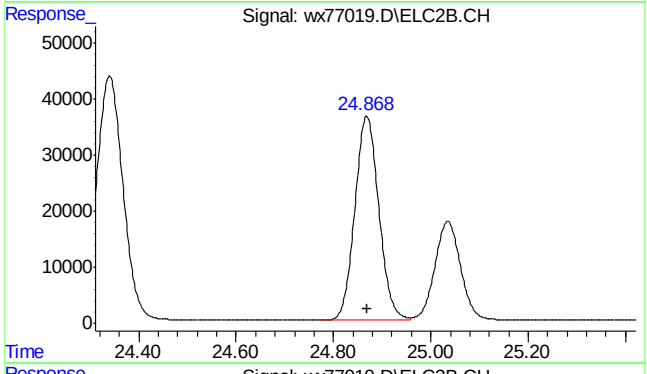
#30 o-xylene #2

R.T.: 22.841 min
Delta R.T.: -0.003 min
Response: 1154871
Conc: 98.24 ppb m



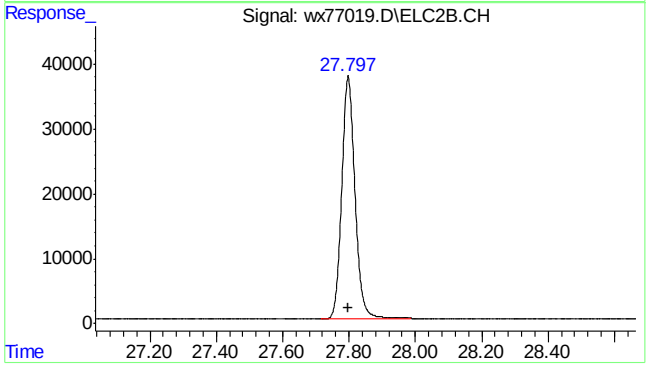
#31 1,3,5-trimethylbenzene #2

R.T.: 24.340 min
Delta R.T.: -0.001 min
Response: 1687926
Conc: 97.62 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 24.869 min
Delta R.T.: -0.002 min
Response: 1249788
Conc: 97.78 ppb

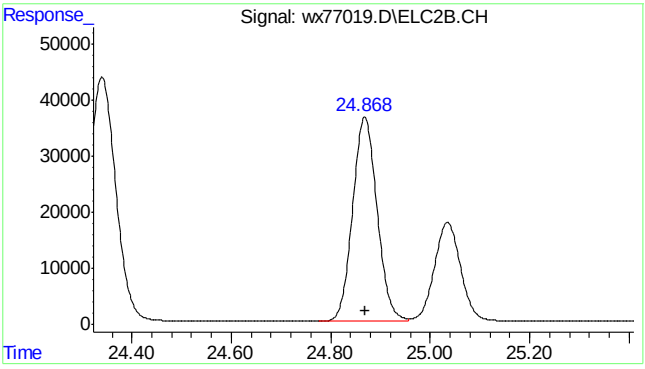


#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 1060250
Conc: 108.70 ppb m

7.5.4

7



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 1248686
Conc: 97.80 ppb m

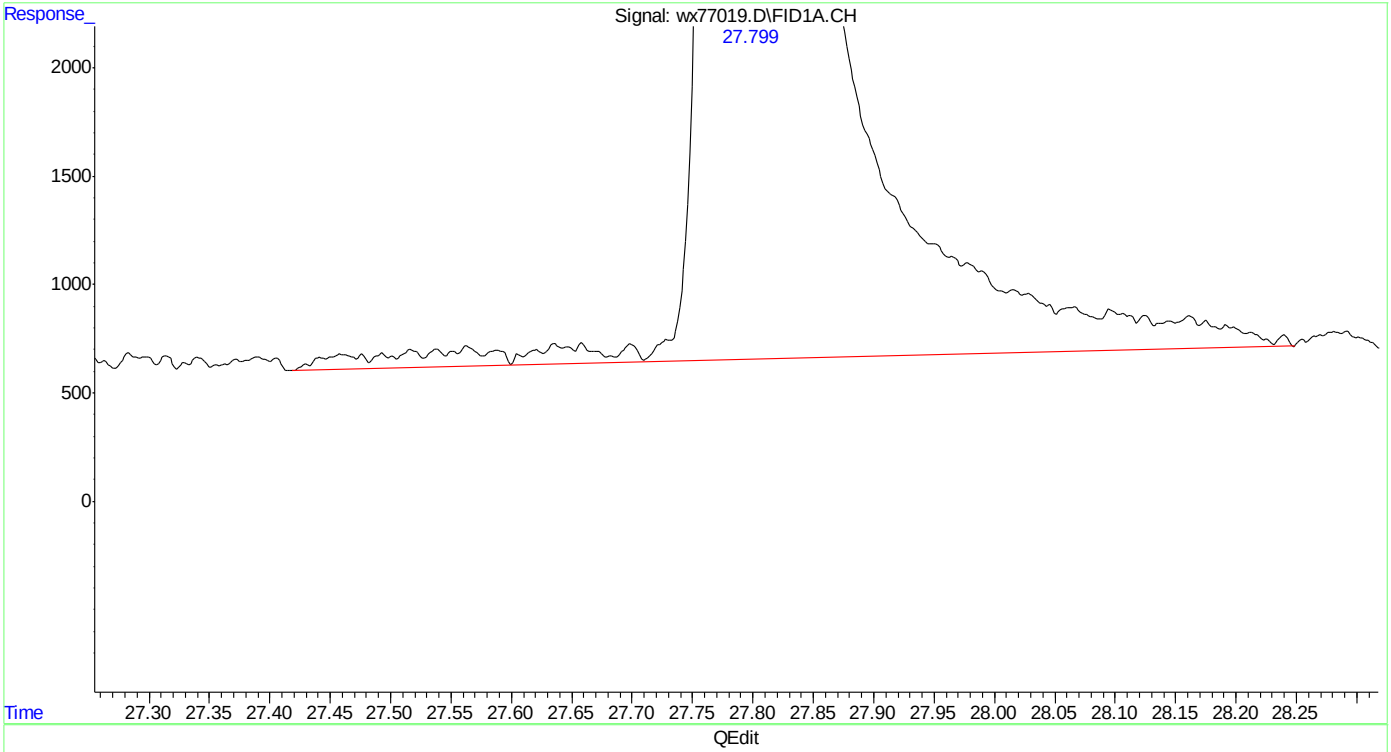
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.800min 112.458 ppb
response 2143812

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:18 2016

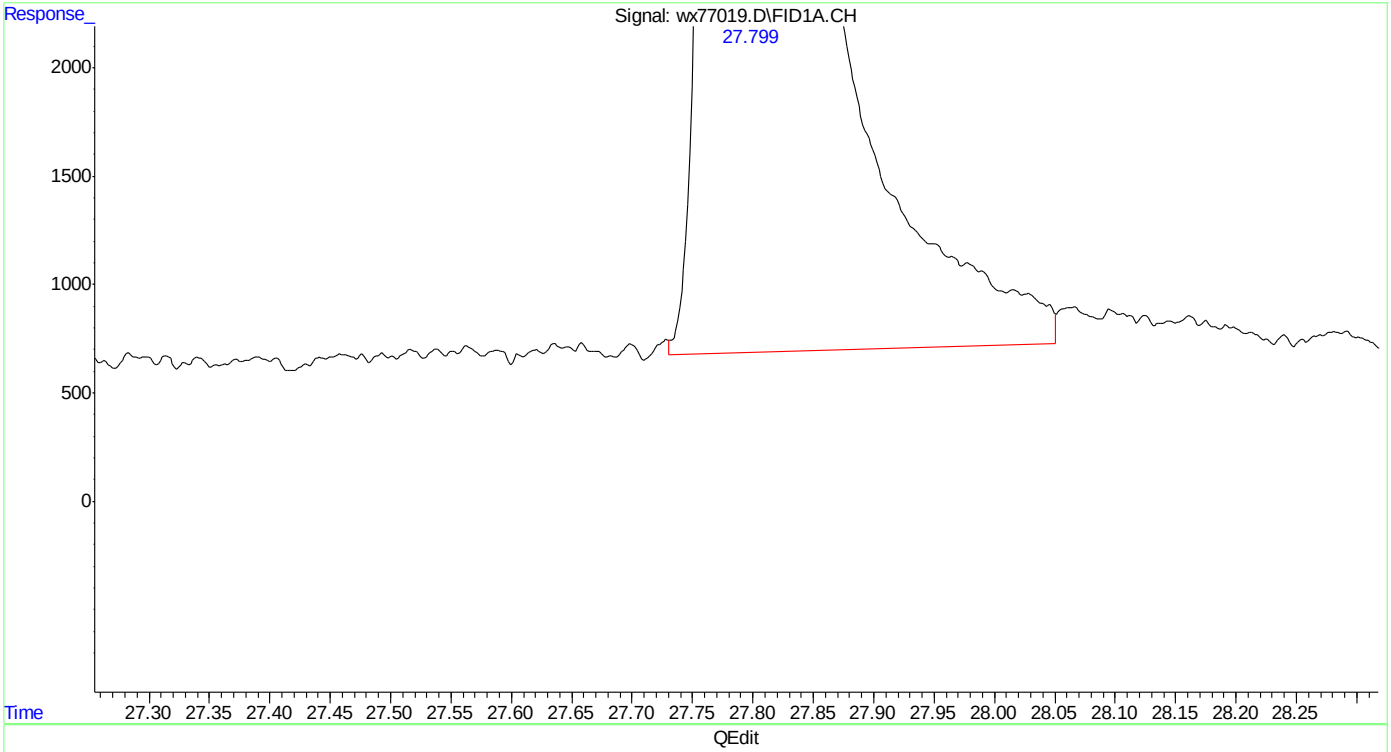
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.799min 110.860 ppb m
response 2113347

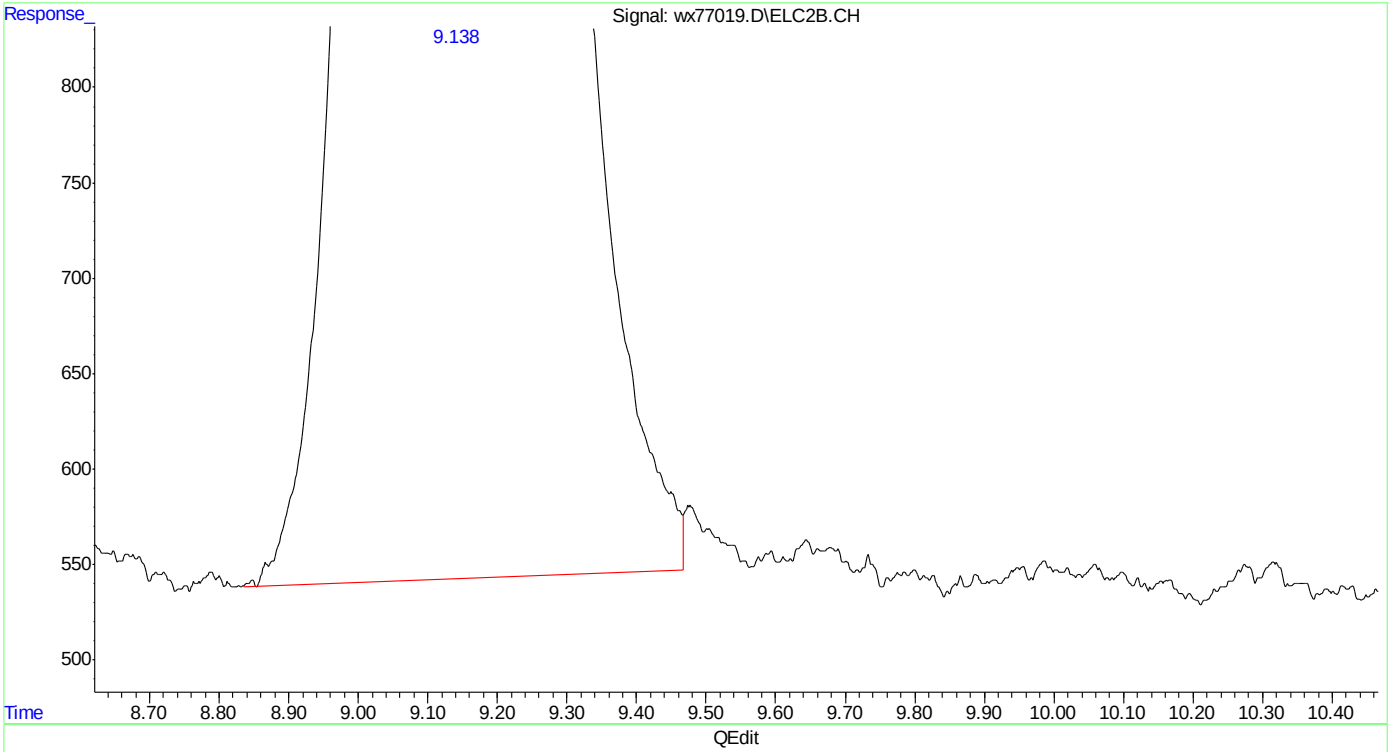
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.139min 93.591 ppb
response 423318

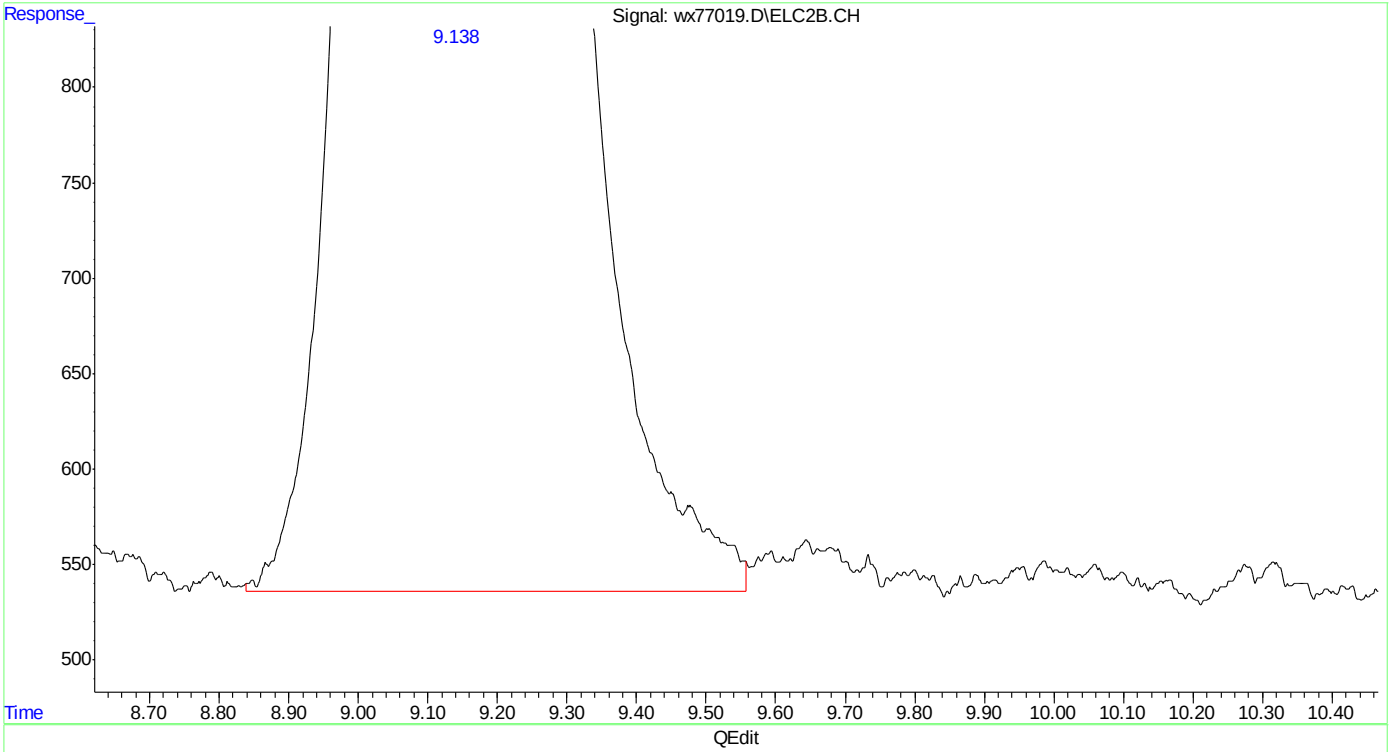
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.138min 94.513 ppb m
response 427488

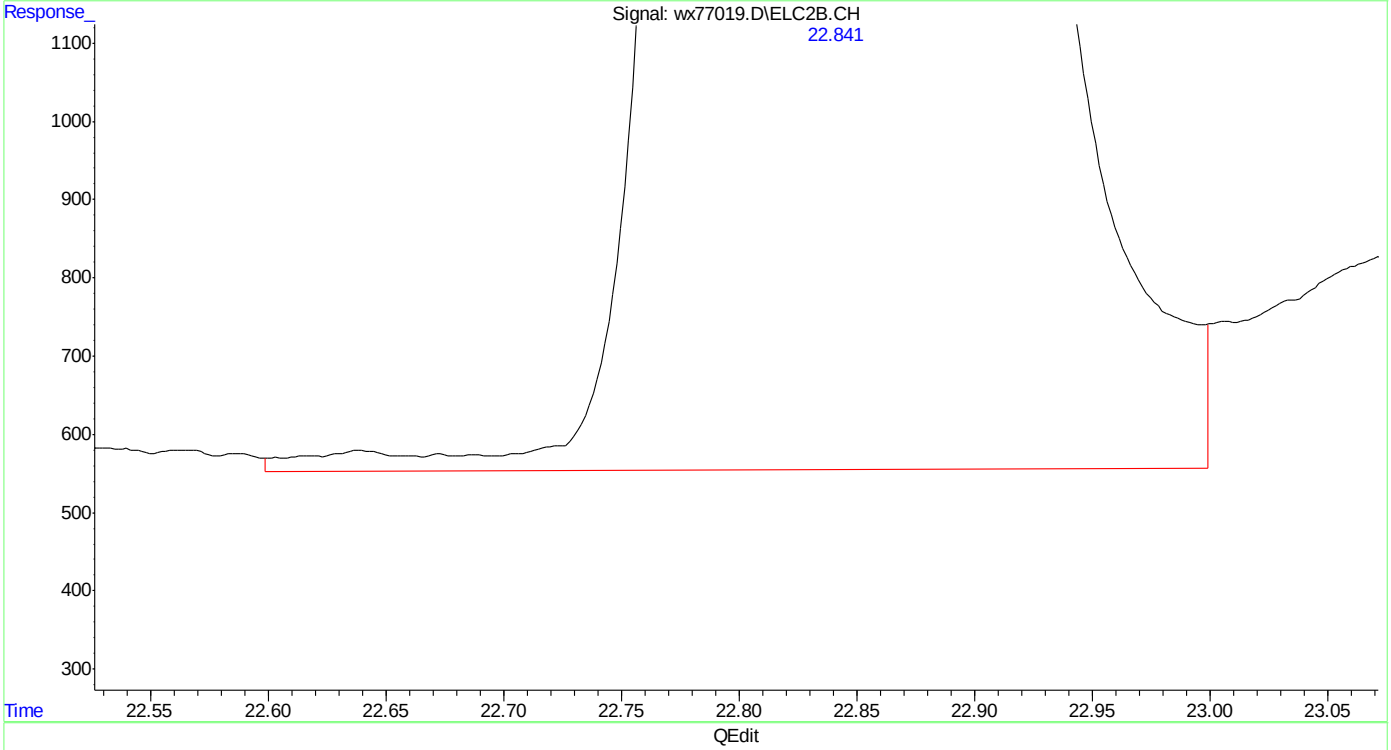
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.842min 98.599 ppb
response 1159117

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:52 2016

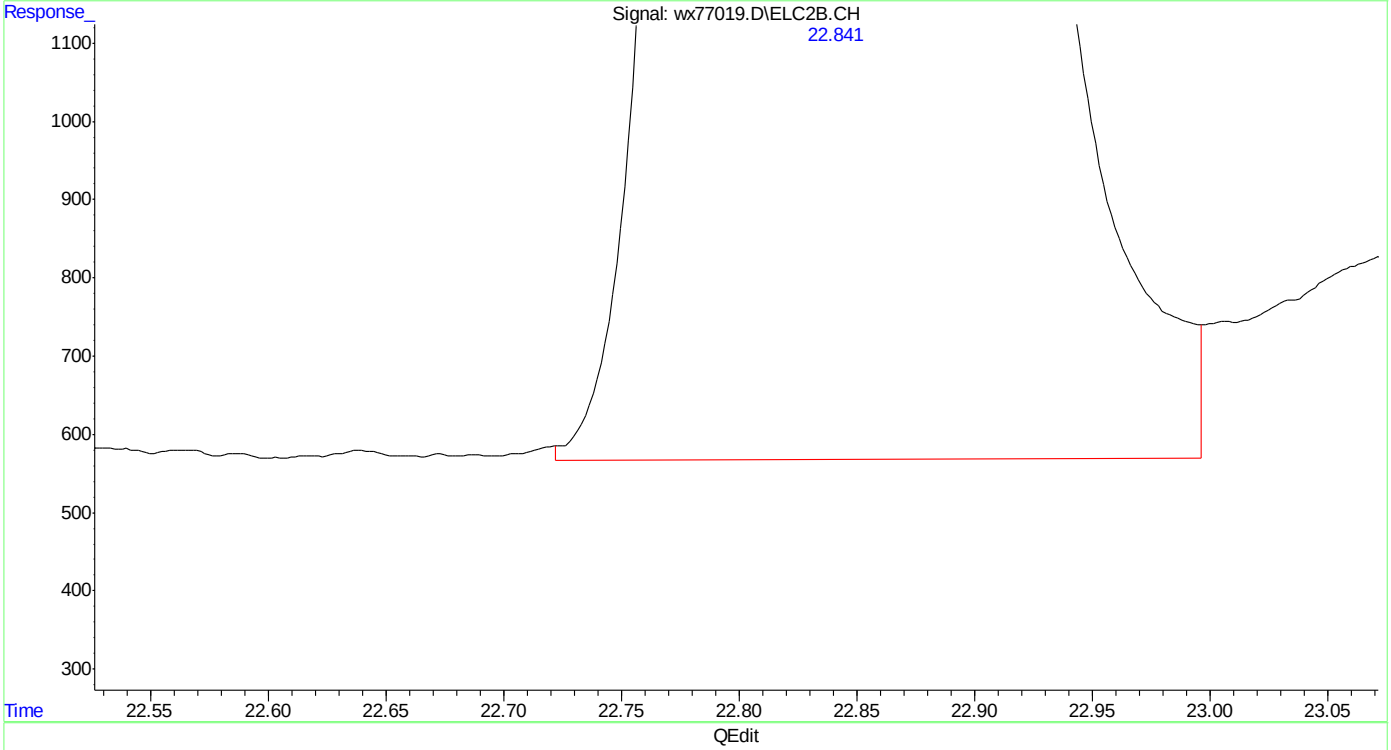
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.841min 98.238 ppb m
response 1154871

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:58 2016

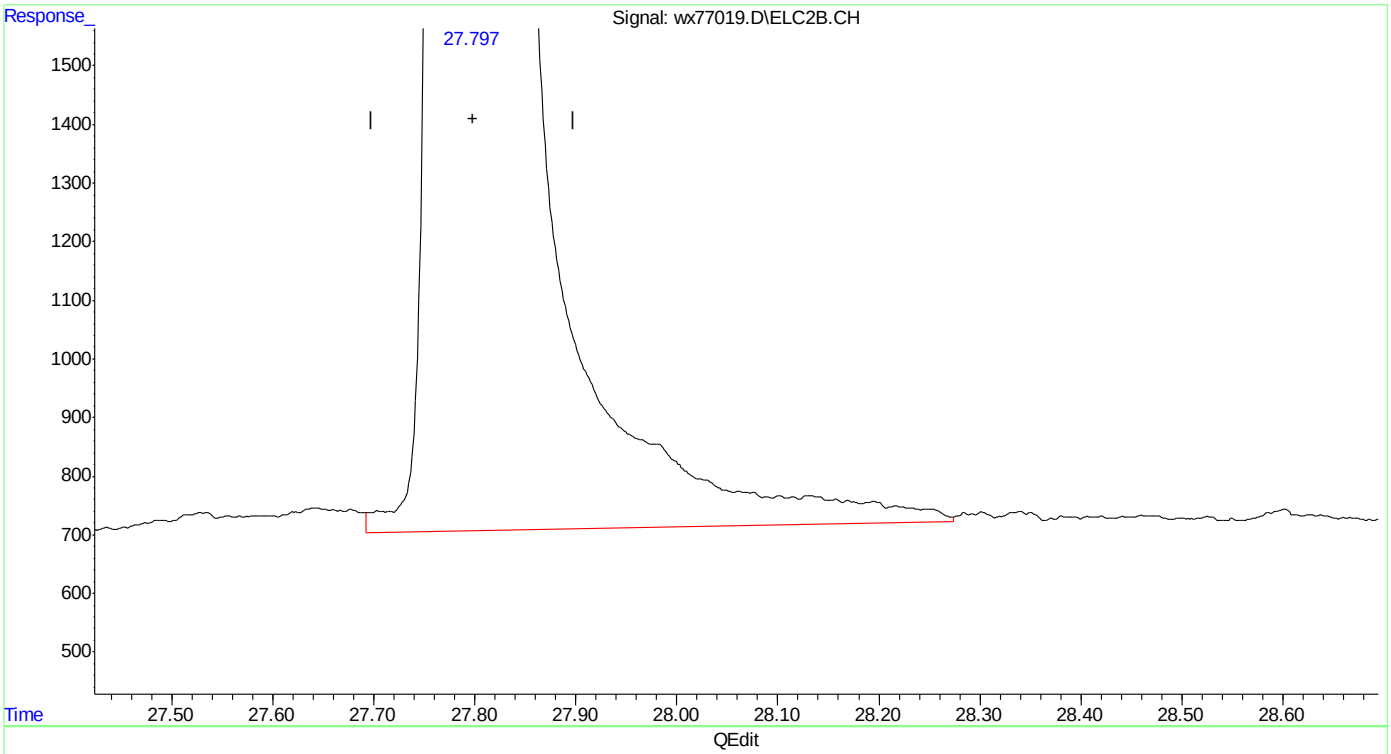
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 110.183 ppb
response 1074731

(+) = Expected Retention Time

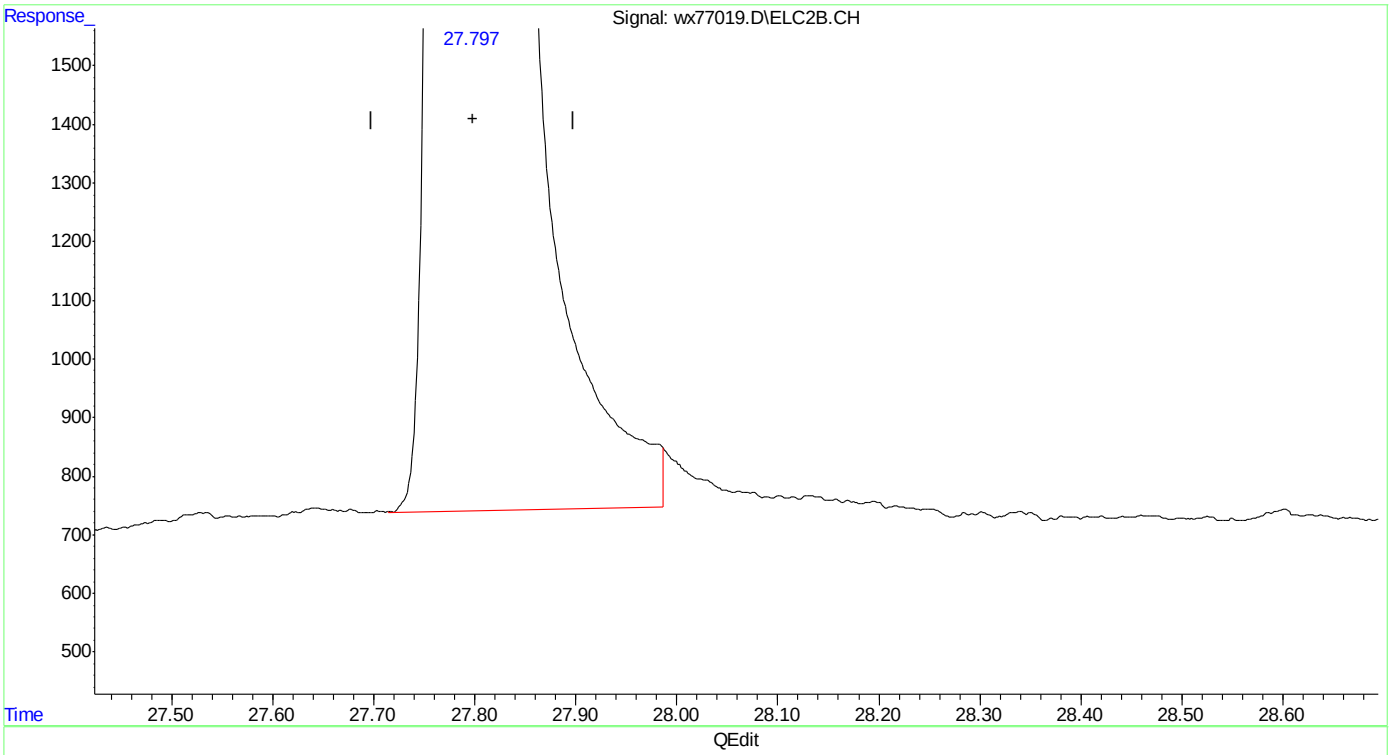
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 108.698 ppb m
response 1060250

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:42:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.746	1401700	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	19.882	1134458	50.030	ppb	m
Spiked Amount 50.000		Recovery = 100.06%			
25) s fluorobenzene #2	14.746	451319	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	19.882	265152	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	6.100	1066222	50.058	ppb	
2) h rt7/10	8.370	1403769	50.081	ppb	
3) mtbe	9.149	640265	49.955	ppb	m
4) h rt10/13	13.510	1072962	50.093	ppb	
5) benzene	14.239	1756949	50.000	ppb	
8) toluene	18.748	1729012	50.000	ppb	
11) h rt20/25	21.600	1572016	50.012	ppb	
13) ethylbenzene	21.888	1710620	50.000	ppb	
14) m,p-xylene	22.037	3516981	100.000	ppb	
15) o-xylene	22.844	1737500	50.000	ppb	
16) h Decane	23.990	1592389	50.000	ppb	
17) t 1,3,5-trimethylbenzene	24.342	1832003	50.000	ppb	
18) 1,2,4-trimethylbenzene	24.871	1743092	50.000	ppb	
19) h Butylcyclohexane	25.040	1673218	50.000	ppb	
20) naphthalene	27.800	1067382	50.280	ppb	m
23) mtbe #2	9.135	221088	50.194	ppb	m
24) benzene #2	14.240	703739	50.000	ppb	
26) toluene #2	18.747	643875	50.000	ppb	
28) ethylbenzene #2	21.887	569086	50.000	ppb	
29) m,p-xylene #2	22.036	1386579	100.000	ppb	
30) o-xylene #2	22.844	582680	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	24.342	851314	50.000	ppb	
32) 1,2,4-trimethylbenzen...	24.870	626793	50.000	ppb	
33) naphthalene #2	27.798	530646	50.058	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	626702	49.988	ppb	

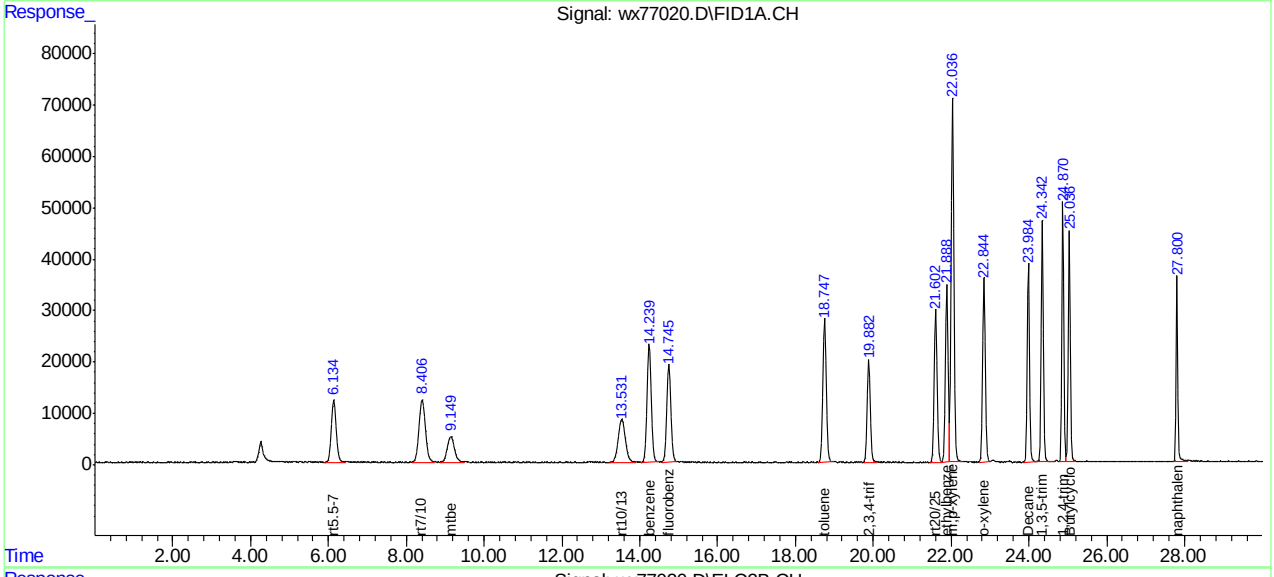
(f)=RT Delta > 1/2 Window (m)=manual int.

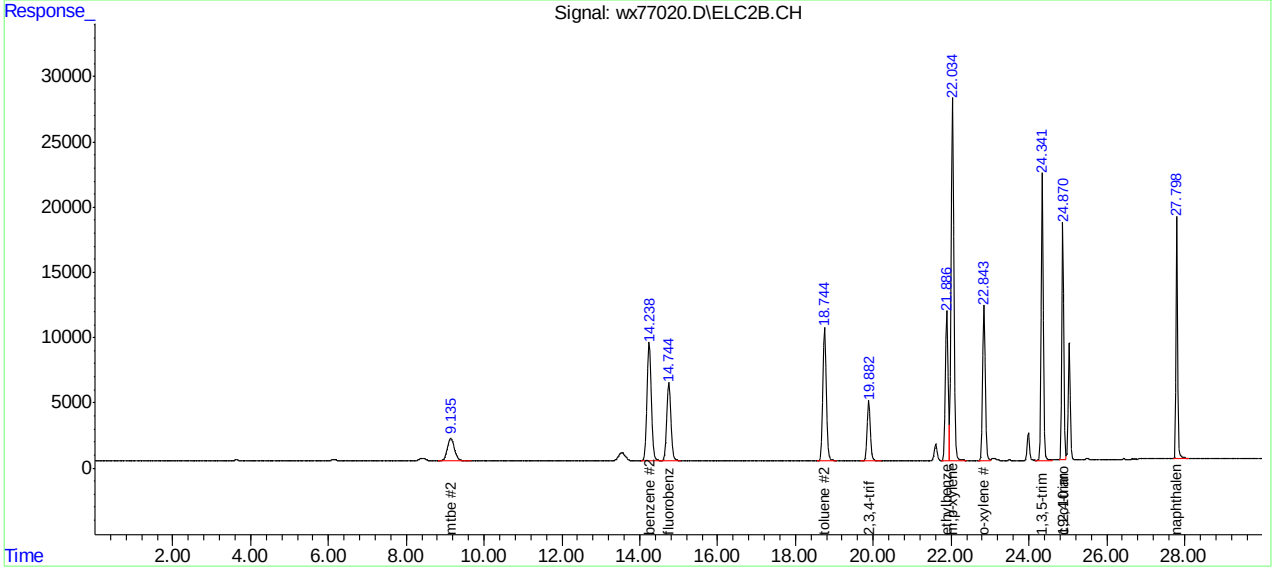
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:42:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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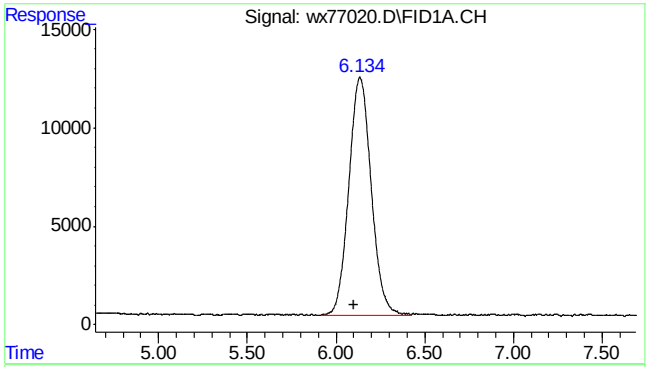
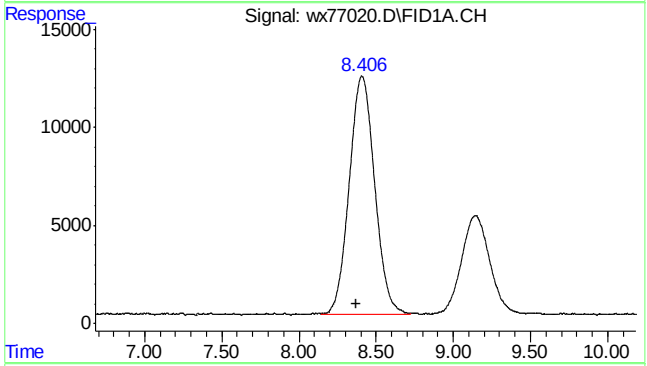


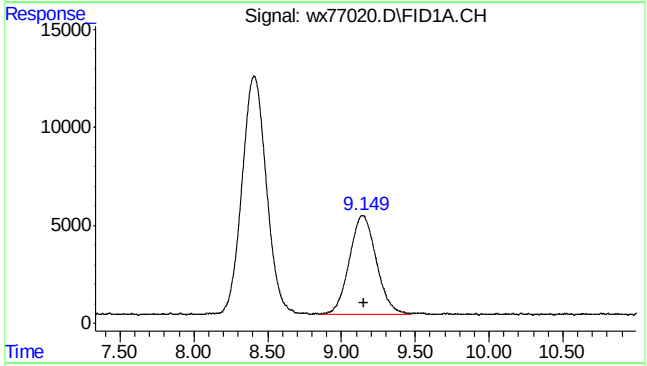
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1066222
Conc: 50.06 ppb m



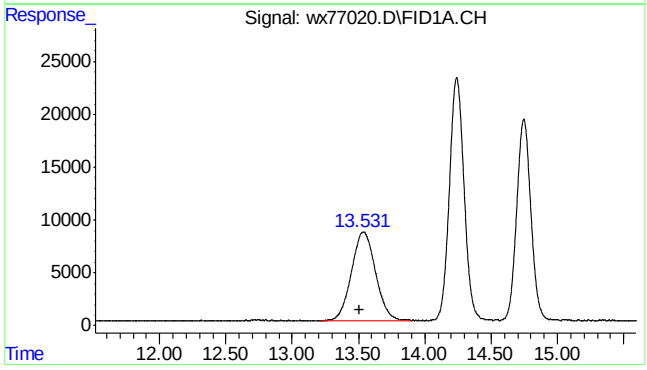
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1403769
Conc: 50.08 ppb m



#3 mtbe

R.T.: 9.149 min
Delta R.T.: 0.000 min
Response: 640265
Conc: 49.95 ppb m



#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1072962
Conc: 50.09 ppb m

7.5.5

7

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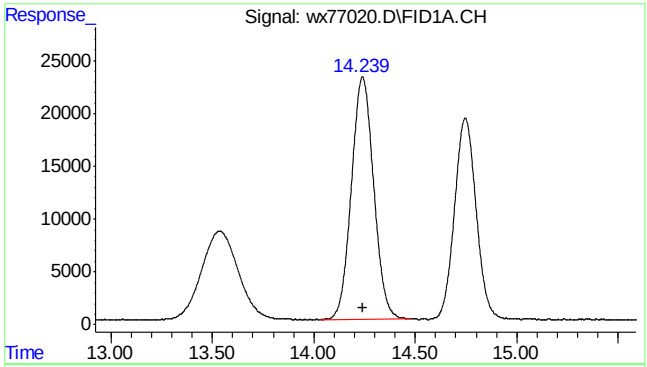
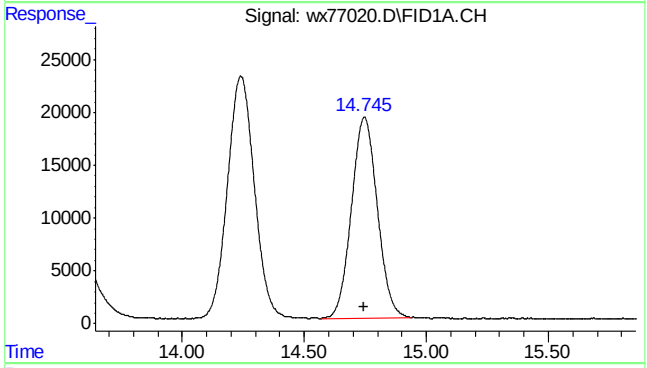


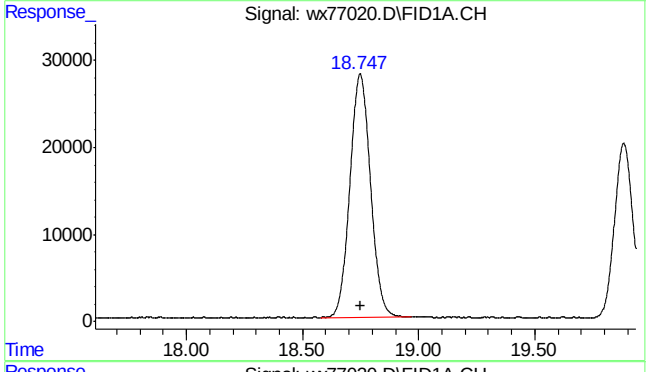
#5 benzene

R.T.: 14.239 min
Delta R.T.: 0.000 min
Response: 1756949
Conc: 50.00 ppb



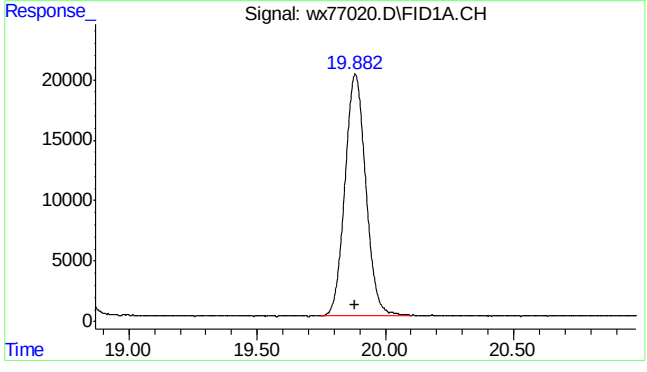
#6 fluorobenzene

R.T.: 14.746 min
Delta R.T.: 0.000 min
Response: 1401700
Conc: 50.00 ppb



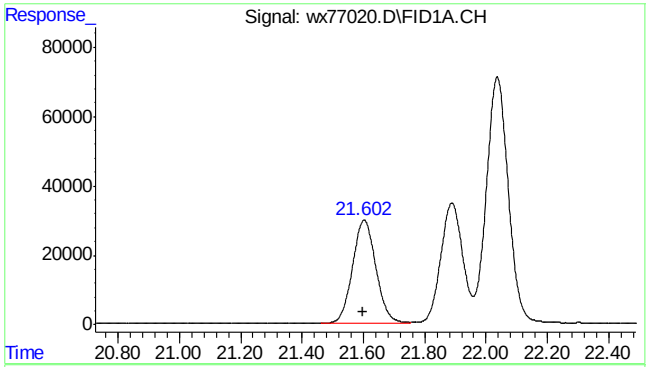
#8 toluene

R.T.: 18.748 min
Delta R.T.: 0.000 min
Response: 1729012
Conc: 50.00 ppb



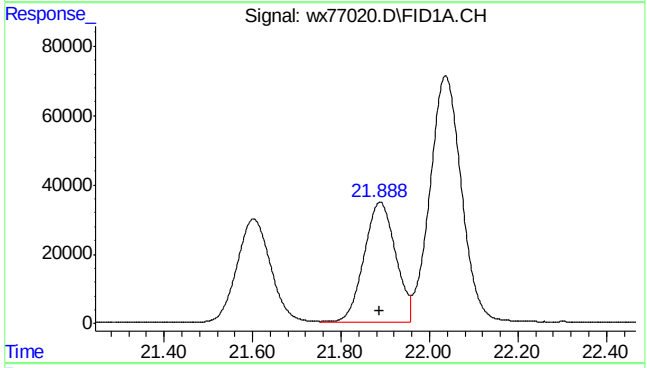
#9 2,3,4-trifluorotoluene

R.T.: 19.882 min
Delta R.T.: 0.000 min
Response: 1134458
Conc: 50.03 ppb m



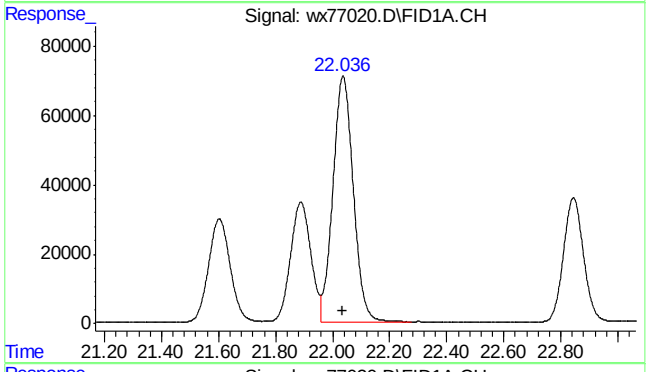
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1572016
Conc: 50.01 ppb m



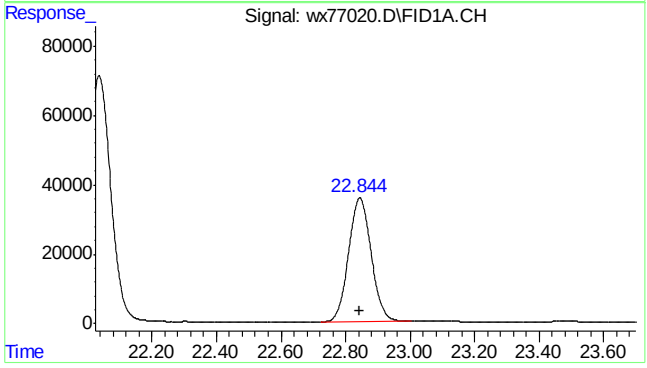
#13 ethylbenzene

R.T.: 21.888 min
Delta R.T.: 0.000 min
Response: 1710620
Conc: 50.00 ppb



#14 m,p-xylene

R.T.: 22.037 min
Delta R.T.: 0.000 min
Response: 3516981
Conc: 100.00 ppb



#15 o-xylene

R.T.: 22.844 min
Delta R.T.: 0.000 min
Response: 1737500
Conc: 50.00 ppb

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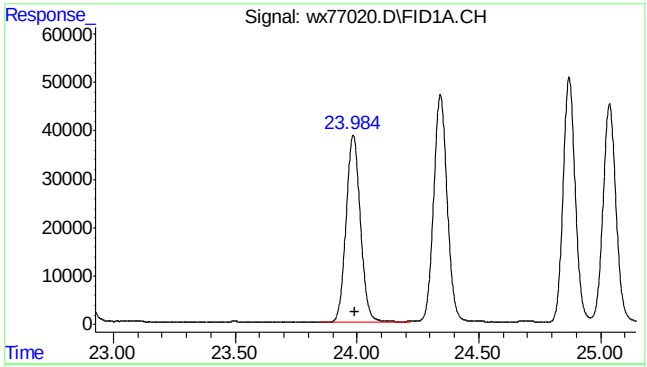
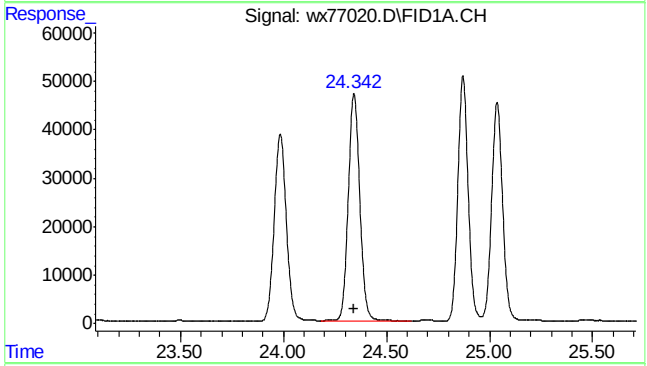


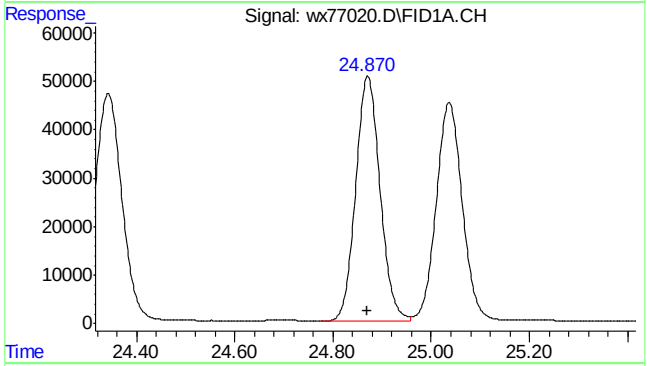
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1592389
Conc: 50.00 ppb m



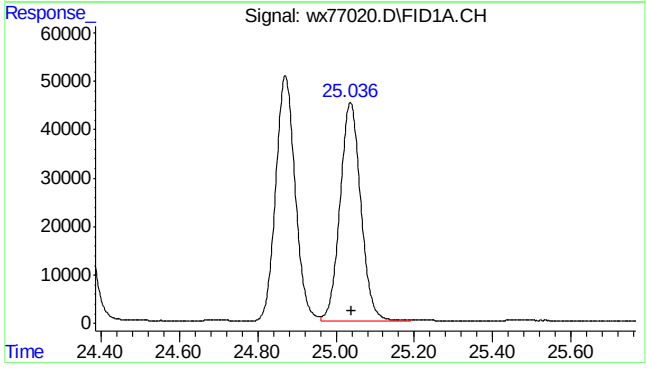
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 1832003
Conc: 50.00 ppb



#18 1,2,4-trimethylbenzene

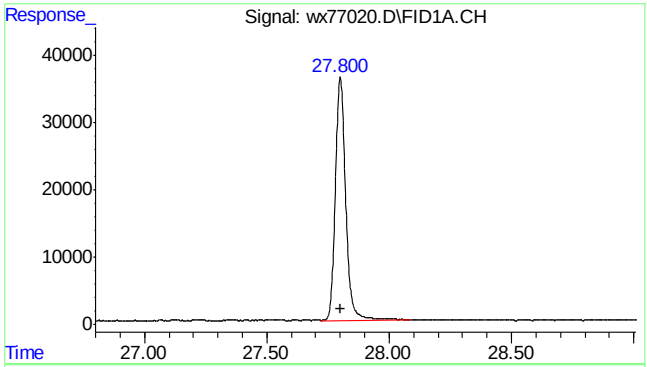
R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 1743092
Conc: 50.00 ppb



#19 Butylcyclohexane

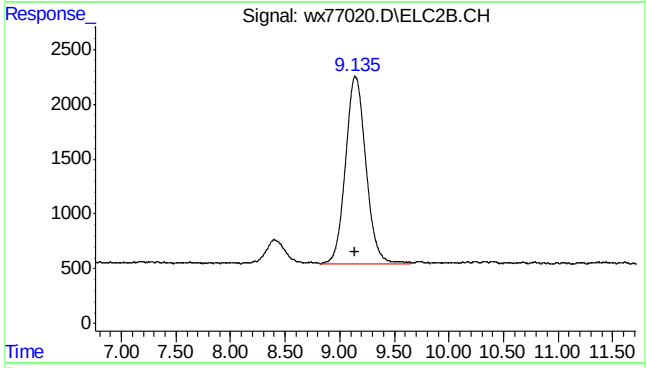
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1673218
Conc: 50.00 ppb m

SGS ACCUTEST MC46340



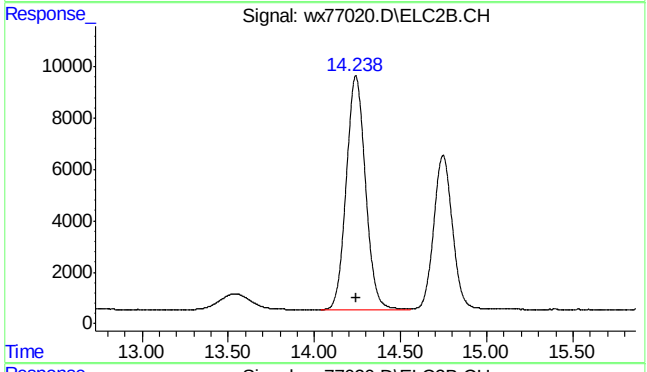
#20 naphthalene

R.T.: 27.800 min
Delta R.T.: 0.000 min
Response: 1067382
Conc: 50.28 ppb m



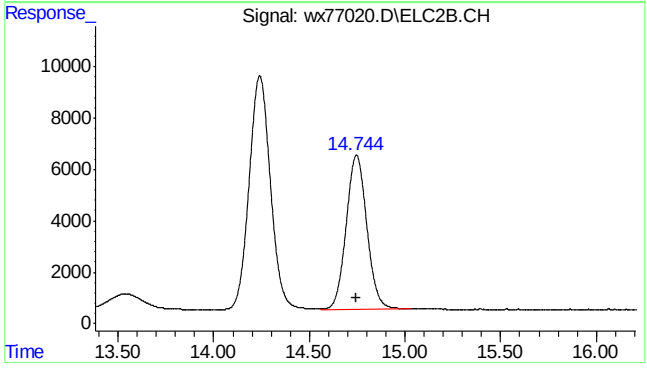
#23 mtbe #2

R.T.: 9.135 min
Delta R.T.: 0.000 min
Response: 221088
Conc: 50.19 ppb m



#24 benzene #2

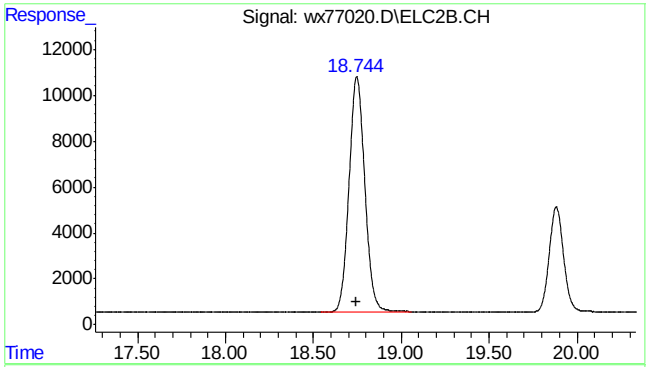
R.T.: 14.240 min
Delta R.T.: 0.000 min
Response: 703739
Conc: 50.00 ppb



#25 fluorobenzene #2

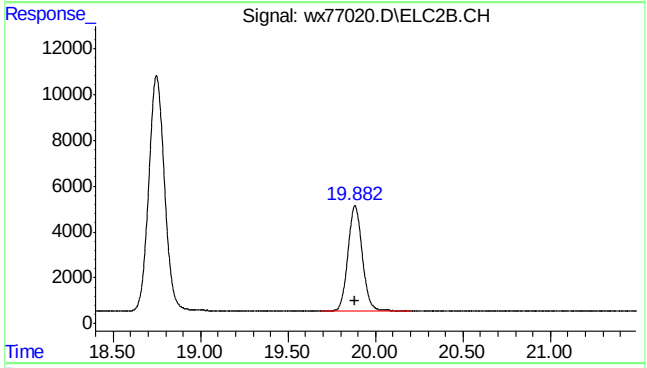
R.T.: 14.746 min
Delta R.T.: 0.000 min
Response: 451319
Conc: 50.00 ppb

SGS ACCUTEST MC46340



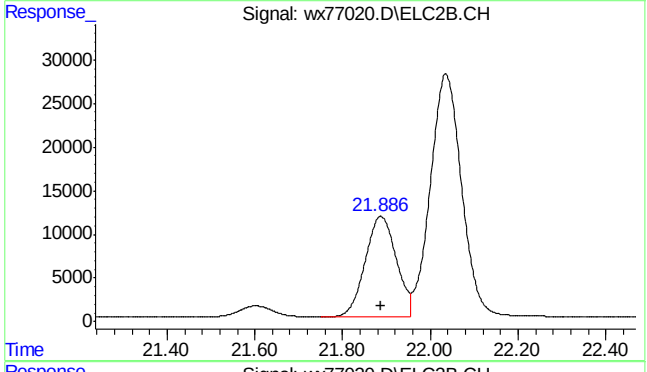
#26 toluene #2

R.T.: 18.747 min
Delta R.T.: 0.000 min
Response: 643875
Conc: 50.00 ppb



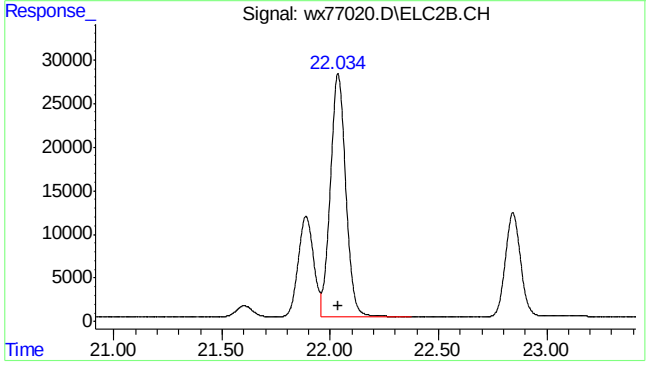
#27 2,3,4-trifluorotoluene #2

R.T.: 19.882 min
Delta R.T.: 0.000 min
Response: 265152
Conc: 50.00 ppb



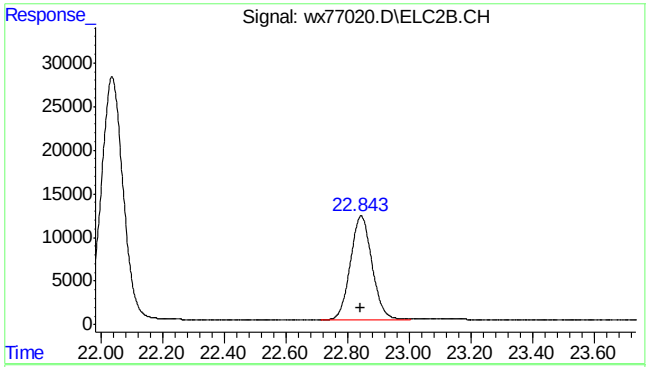
#28 ethylbenzene #2

R.T.: 21.887 min
Delta R.T.: 0.000 min
Response: 569086
Conc: 50.00 ppb



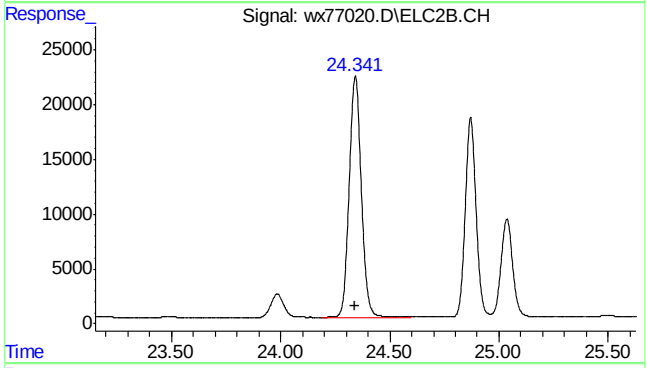
#29 m,p-xylene #2

R.T.: 22.036 min
Delta R.T.: 0.000 min
Response: 1386579
Conc: 100.00 ppb



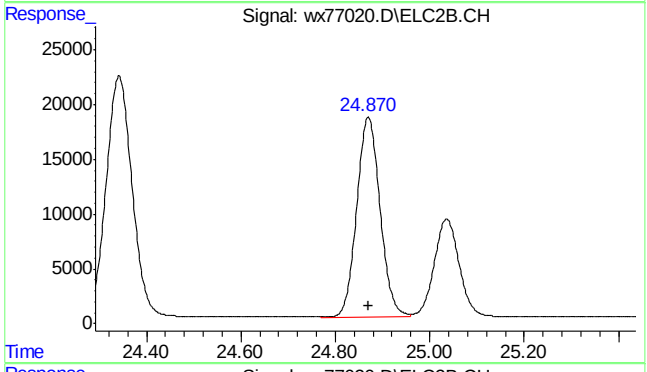
#30 o-xylene #2

R.T.: 22.844 min
Delta R.T.: 0.000 min
Response: 582680
Conc: 50.00 ppb



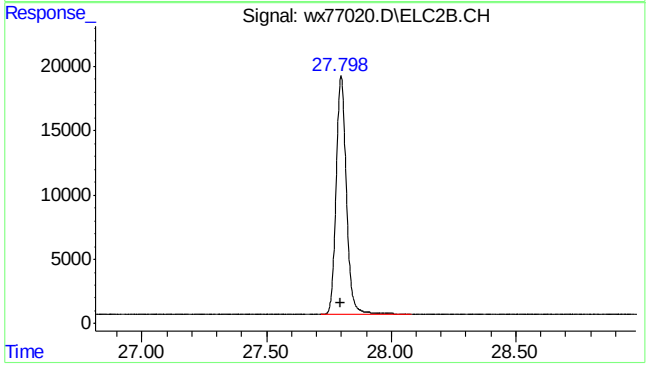
#31 1,3,5-trimethylbenzene #2

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 851314
Conc: 50.00 ppb



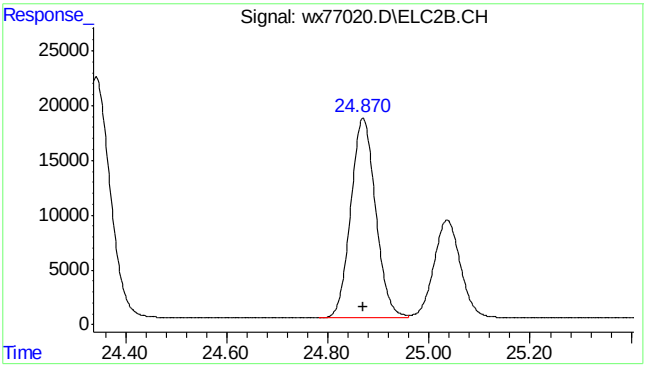
#32 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 626793
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 530646
Conc: 50.06 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 626702
Conc: 49.99 ppb m

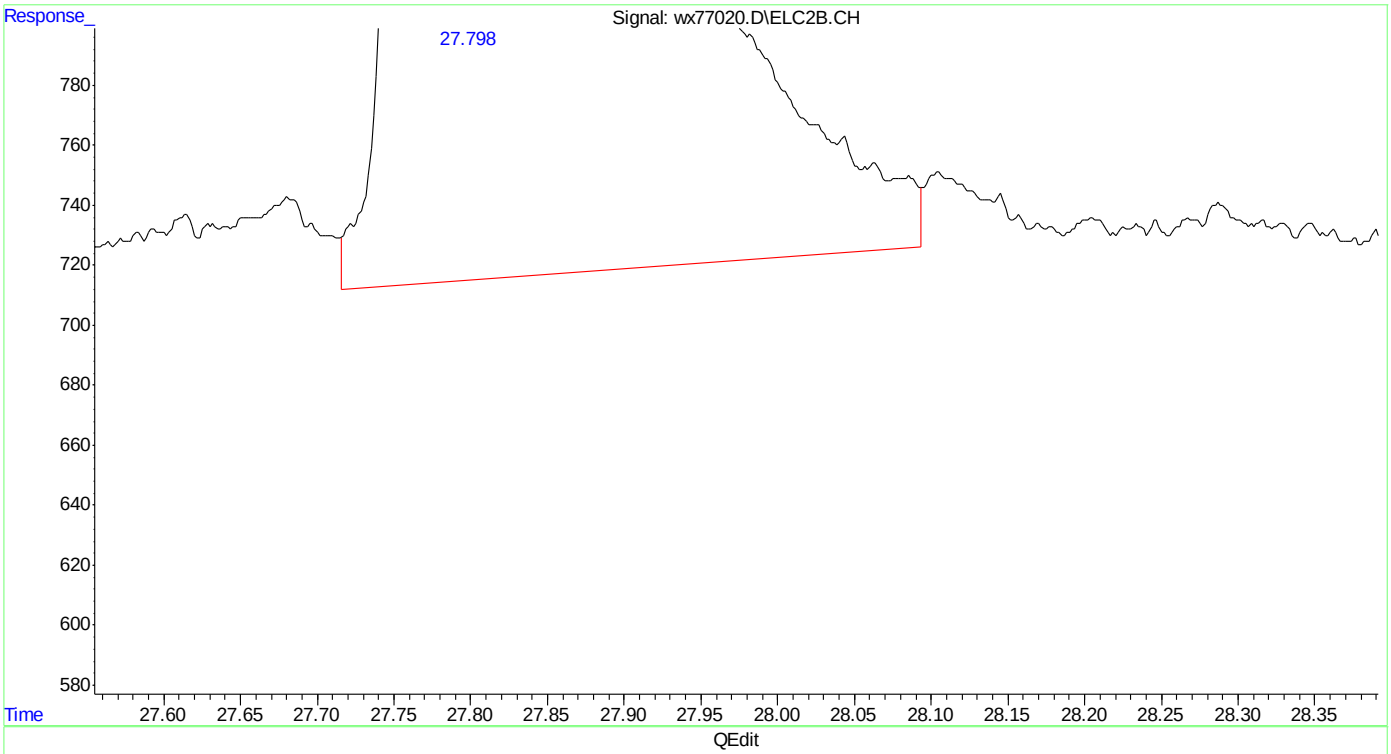
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:37:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 50.312 ppb
response 533334

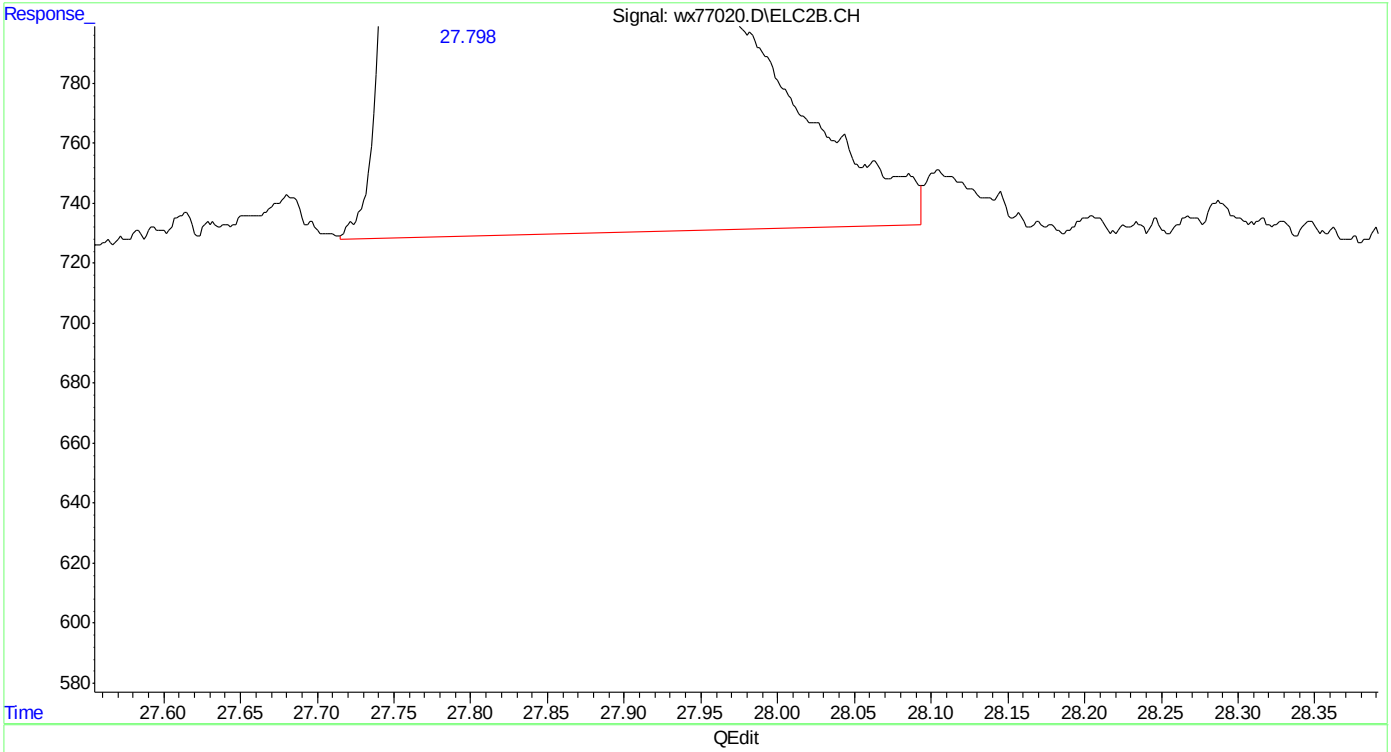
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:39:33 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:37:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 50.076 ppb m
response 530831

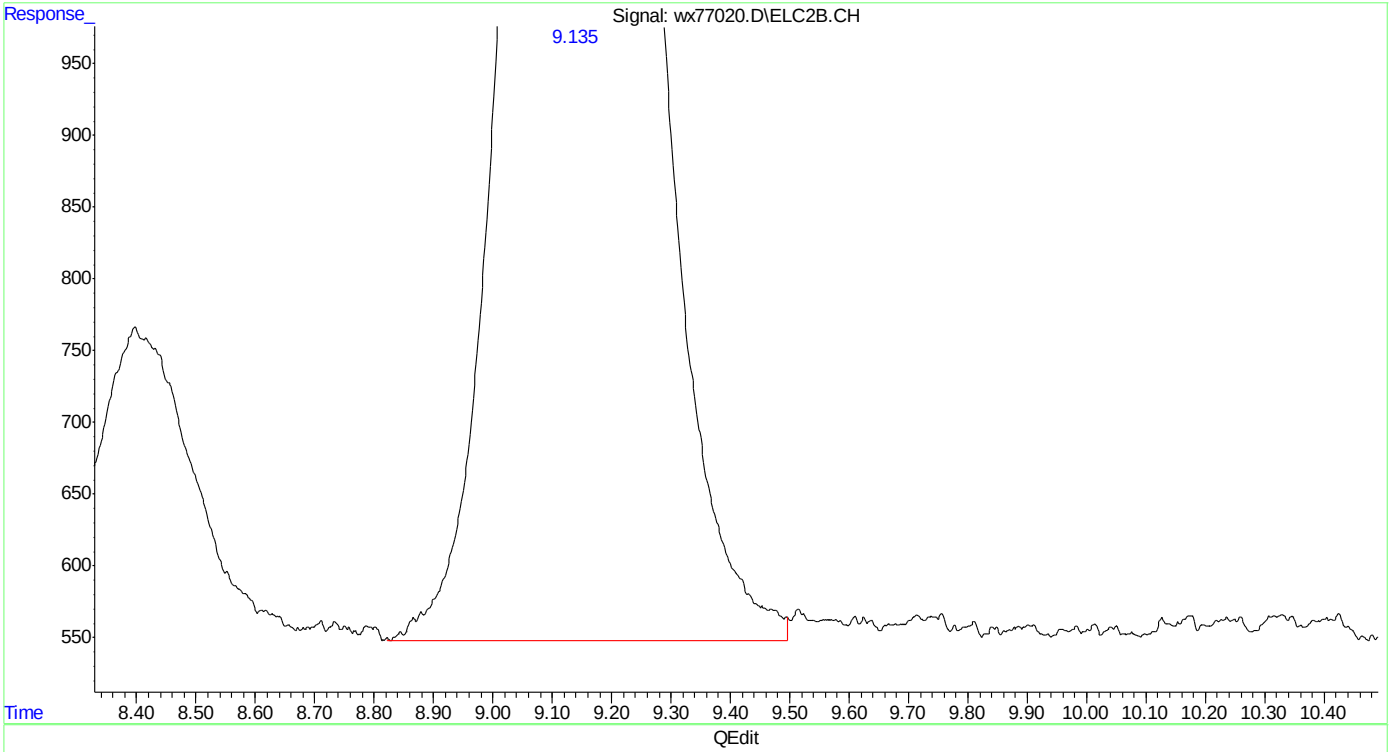
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:37:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.135min 49.898 ppb m
response 219787

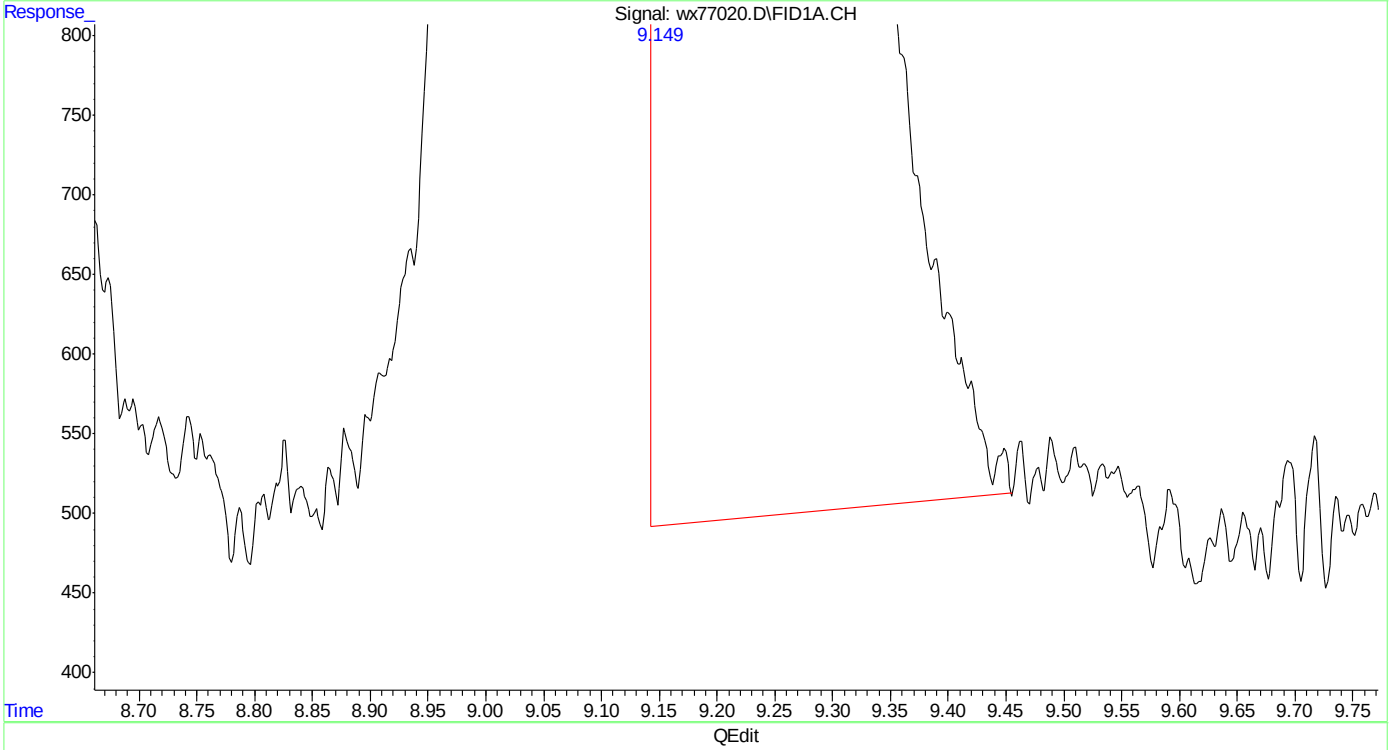
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:39:48 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.150min 25.516 ppb
response 327031

(+) = Expected Retention Time

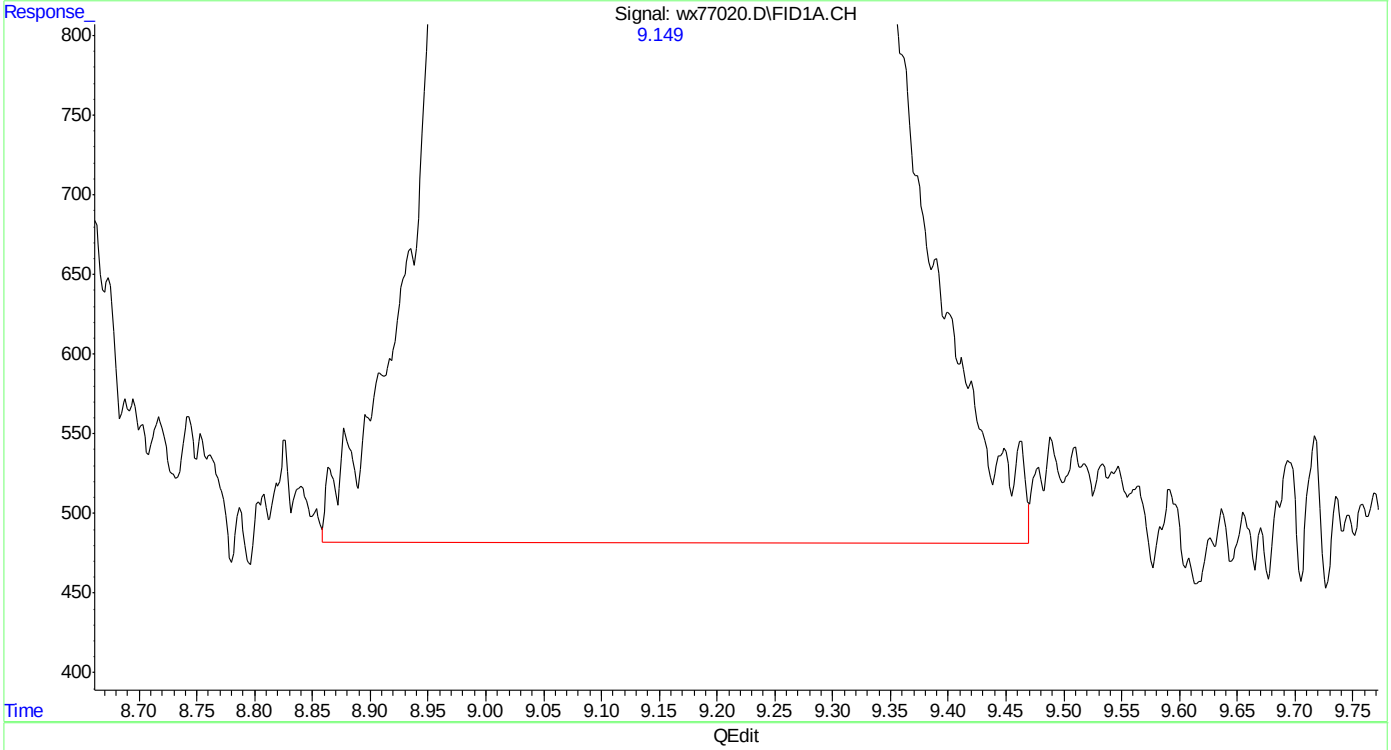
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.149min 49.955 ppb m
response 640265

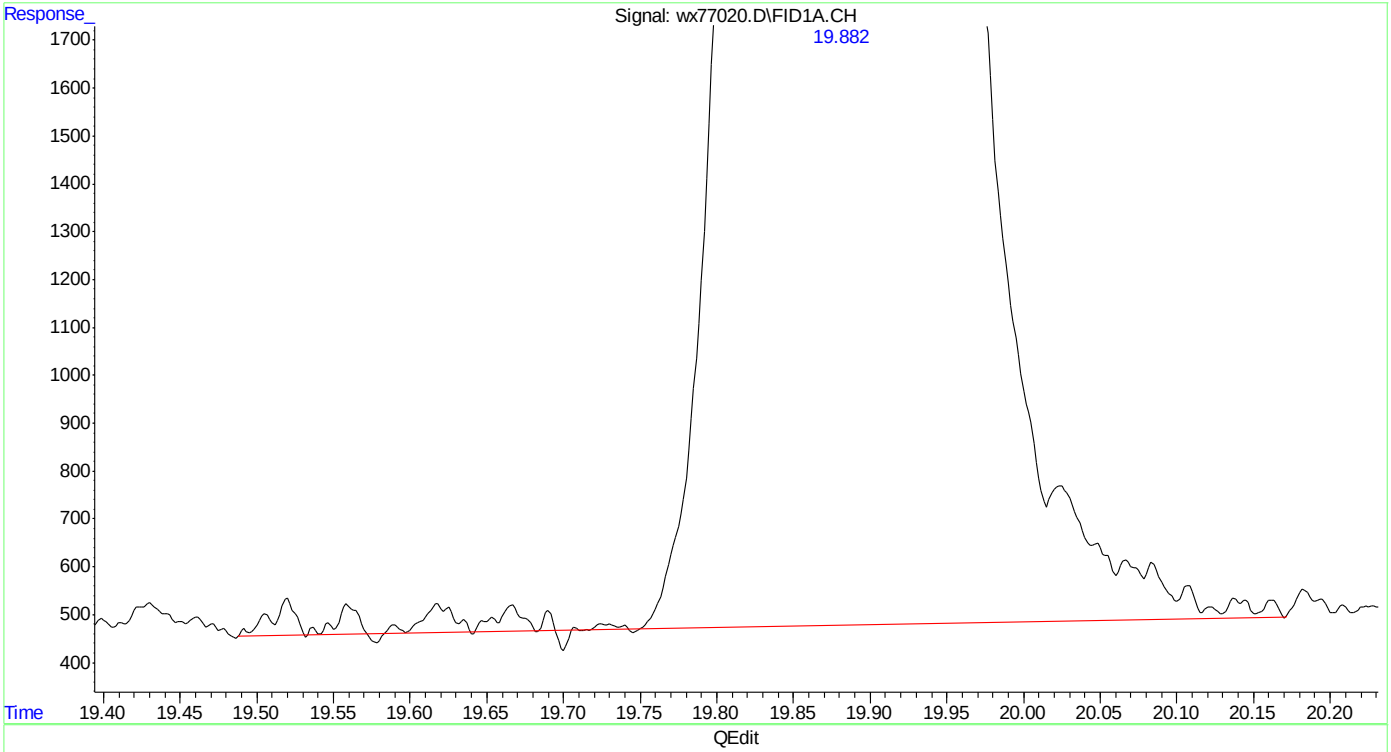
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:40:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.883min 49.993 ppb
response 1133639

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:13 2016

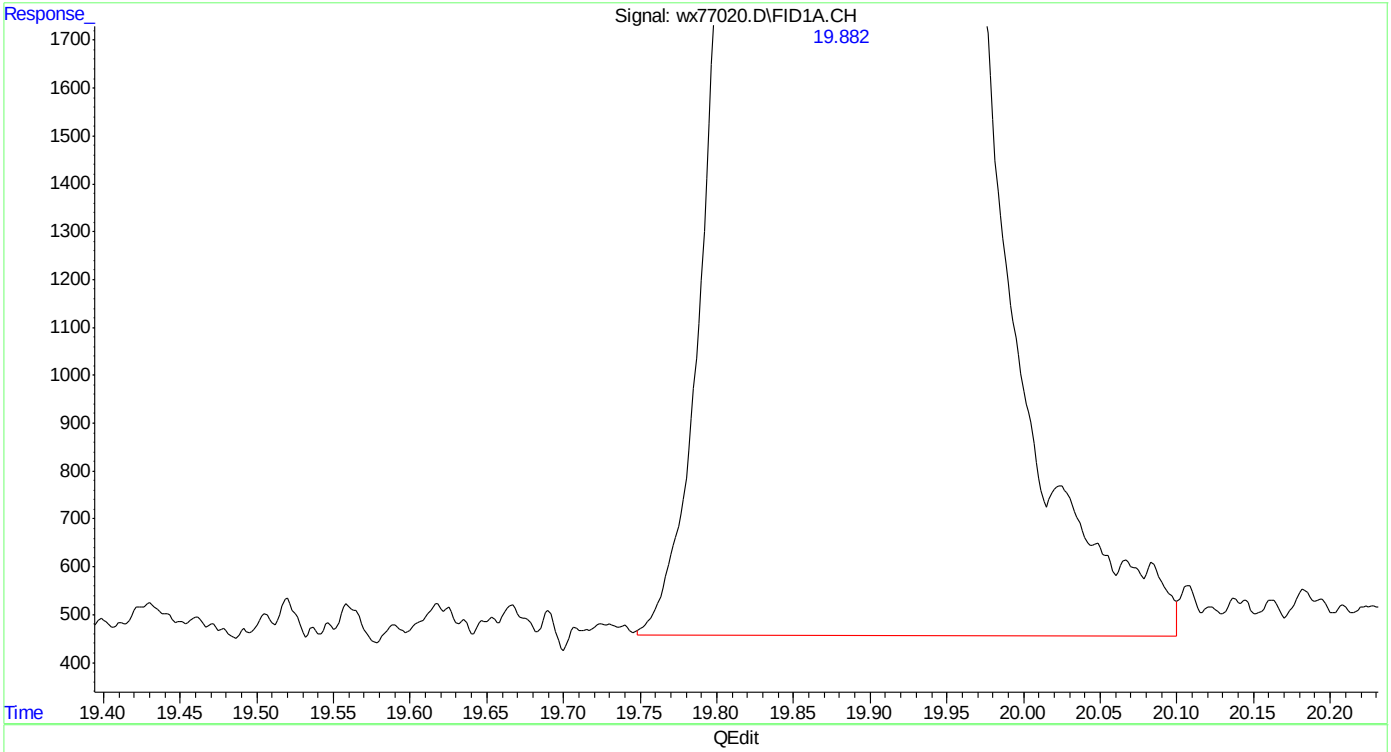
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.882min 50.030 ppb m
response 1134458

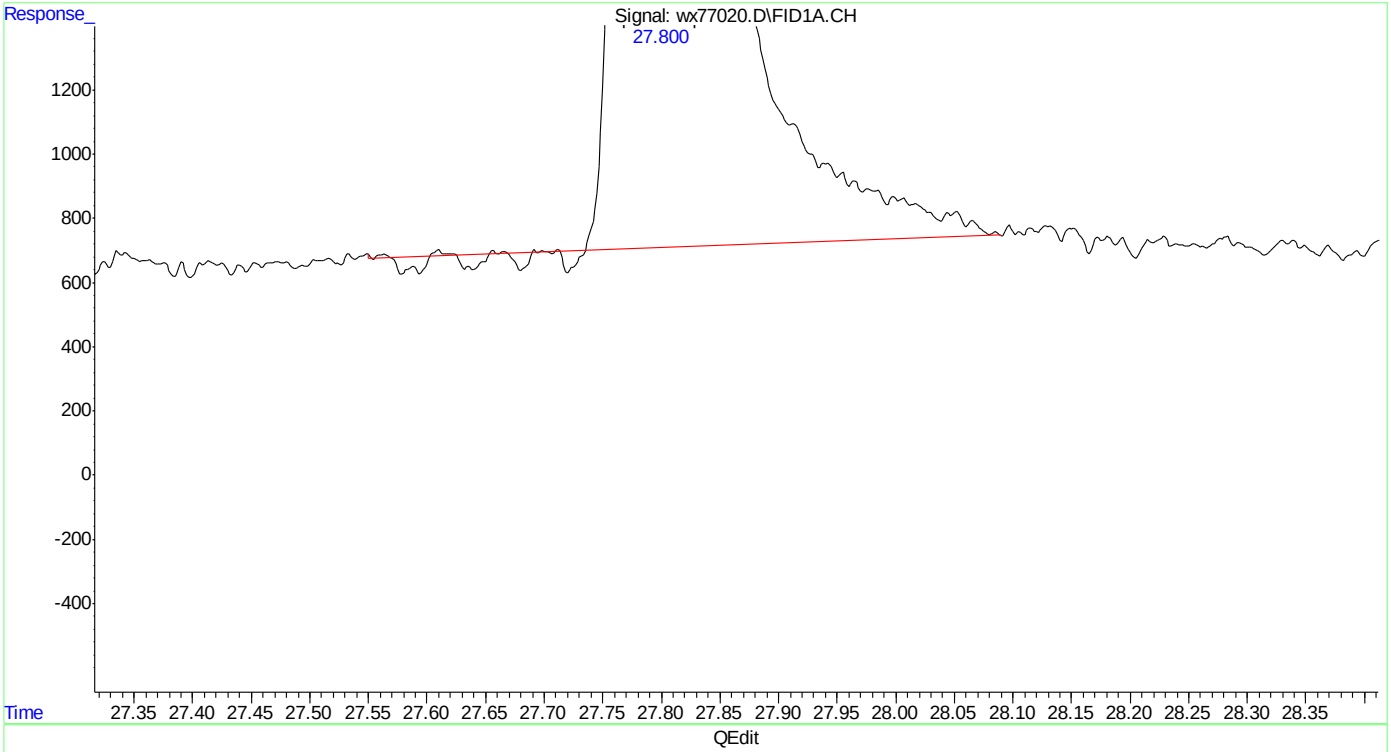
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.801min 49.480 ppb
response 1050404

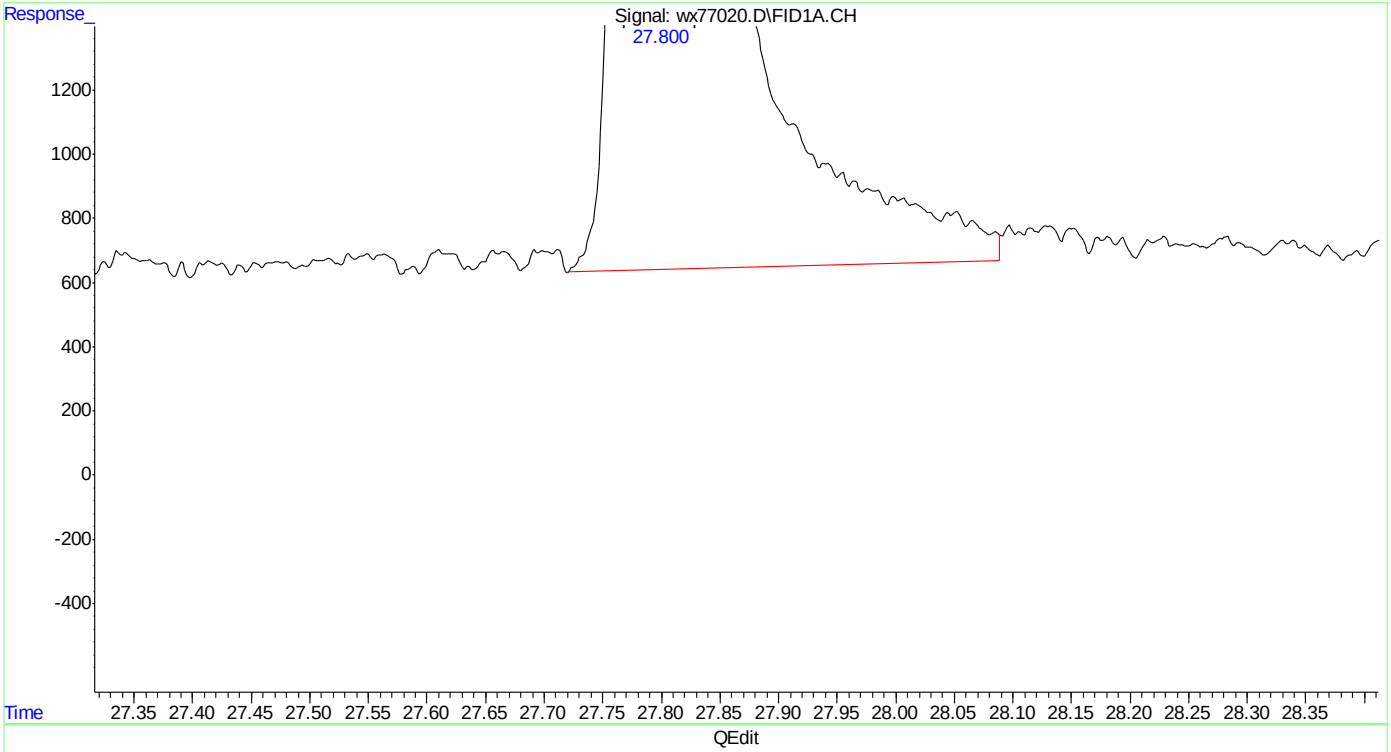
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:38 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   9:59 am
Operator  : tonyf
Sample    : icc3782-50,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 5   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.800min 50.280 ppb m

response 1067382

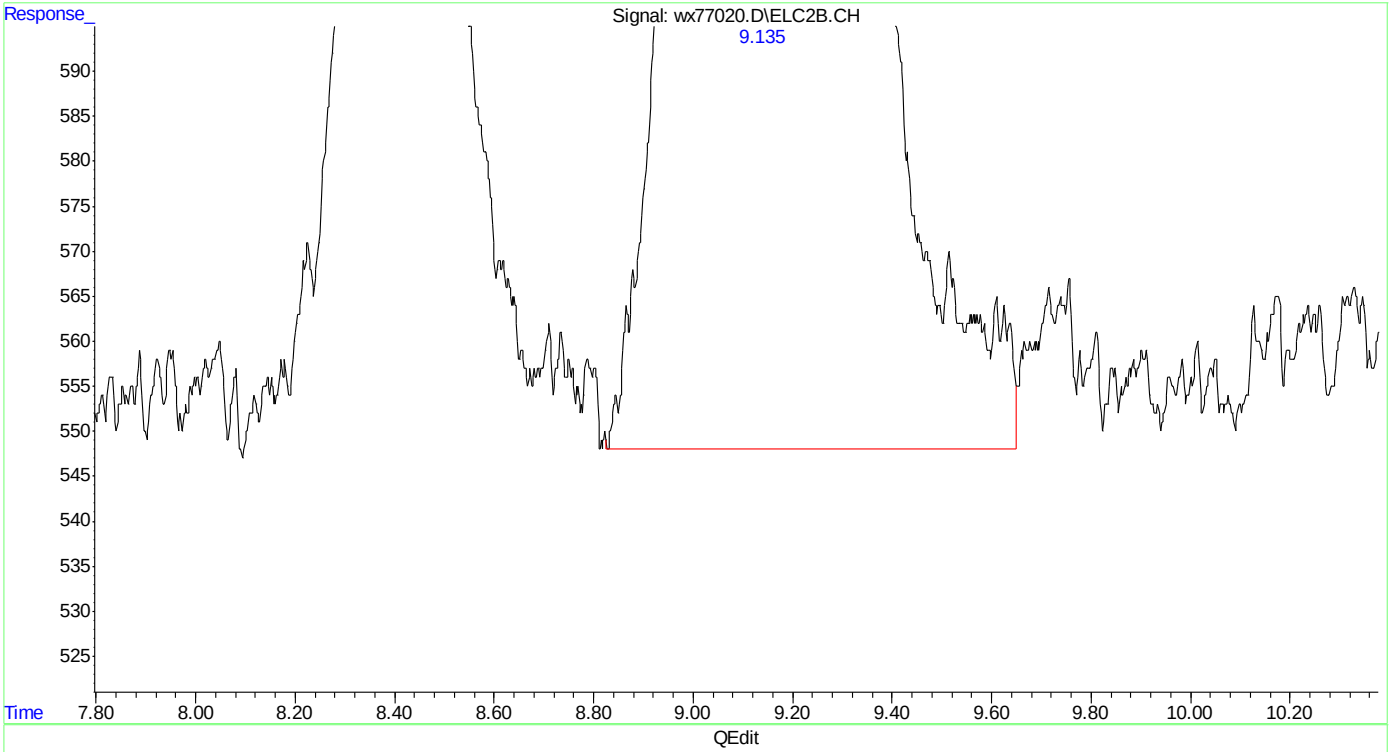
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.135min 50.194 ppb m
response 221088

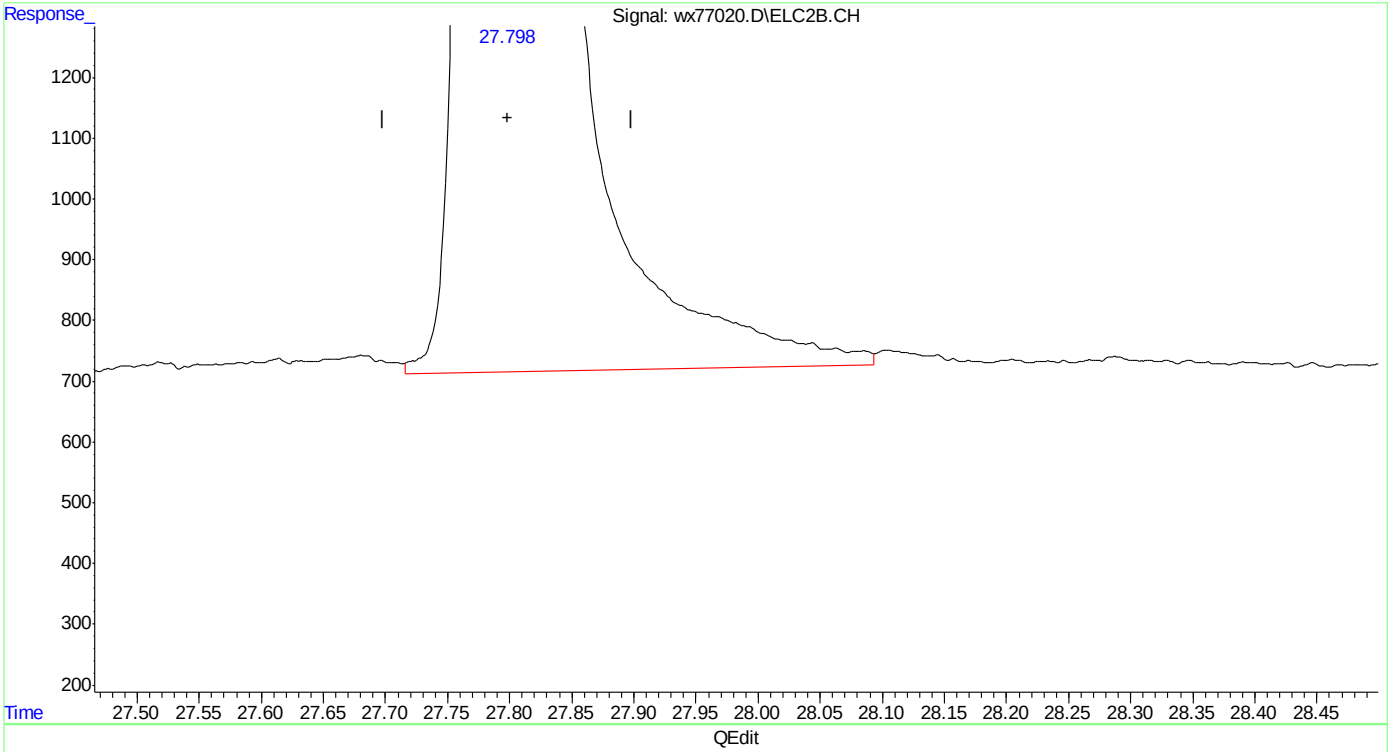
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:56 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 50.312 ppb
response 533334

(+) = Expected Retention Time

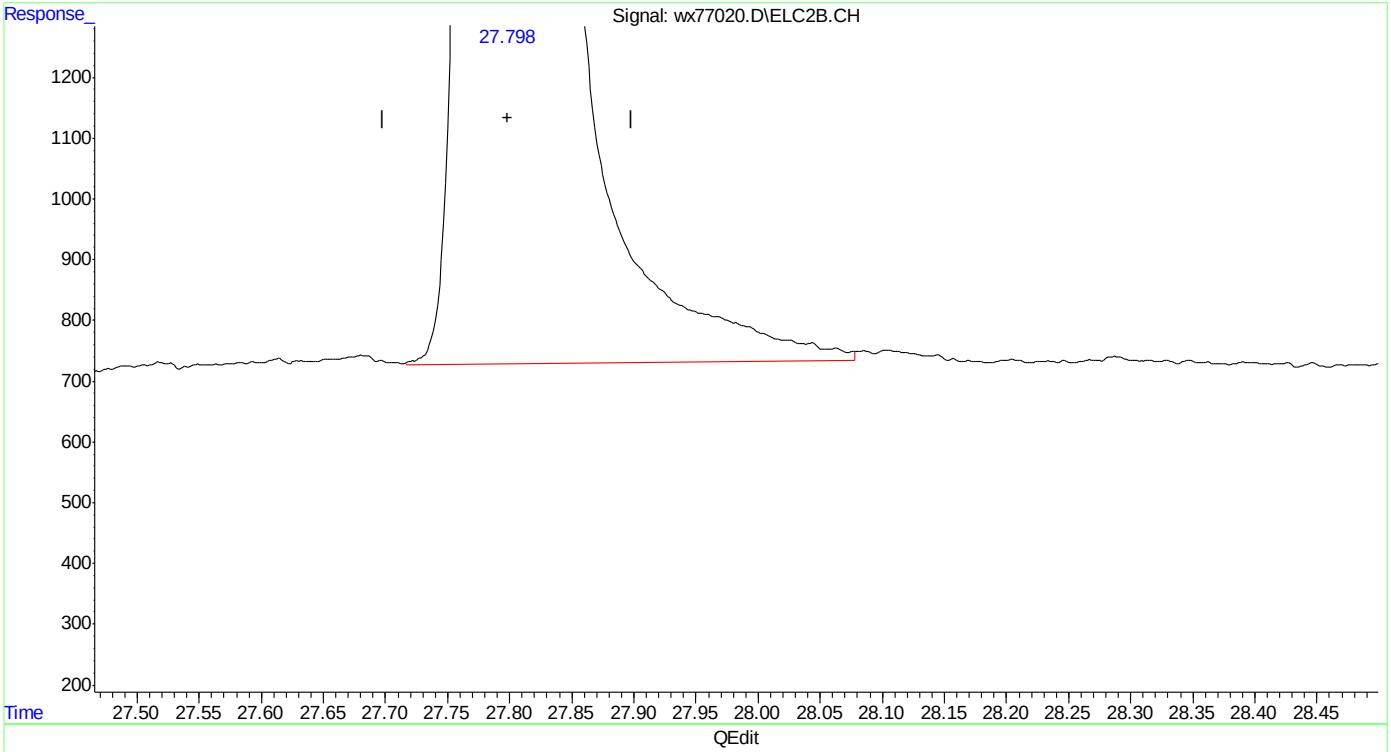
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 50.058 ppb m
response 530646

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:48:01 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.745	280296	9.998	ppb	
Spiked Amount 50.000		Recovery =	20.00%		
9) s 2,3,4-trifluorotoluene	19.883	224739	9.905	ppb	
Spiked Amount 50.000		Recovery =	19.81%		
25) s fluorobenzene #2	14.745	90173	9.990	ppb	
Spiked Amount 50.000		Recovery =	19.98%		
27) s 2,3,4-trifluorotoluen...	19.879	53267	10.045	ppb	m
Spiked Amount 50.000		Recovery =	20.09%		
Target Compounds					
1) h rt5.5-7	6.100	236774	11.103	ppb	
2) h rt7/10	8.370	303053	10.794	ppb	
3) mtbe	9.147	137995	10.776	ppb	m
4) h rt10/13	13.510	285251	13.293	ppb	
5) benzene	14.238	360503	10.259	ppb	
8) toluene	18.749	354162	10.242	ppb	
11) h rt20/25	21.600	360524	11.467	ppb	
13) ethylbenzene	21.888	350442	10.243	ppb	
14) m,p-xylene	22.036	719678	20.463	ppb	
15) o-xylene	22.843	356798	10.268	ppb	m
16) h Decane	23.990	381152	11.968	ppb	
17) t 1,3,5-trimethylbenzene	24.342	374857	10.231	ppb	
18) 1,2,4-trimethylbenzene	24.871	364500	10.456	ppb	
19) h Butylcyclohexane	25.040	390458	11.668	ppb	
20) naphthalene	27.800	188796	8.844	ppb	m
23) mtbe #2	9.152	45370	10.261	ppb	m
24) benzene #2	14.239	143790	10.216	ppb	
26) toluene #2	18.746	129315	10.042	ppb	m
28) ethylbenzene #2	21.887	115115	10.114	ppb	
29) m,p-xylene #2	22.035	282507	20.374	ppb	
30) o-xylene #2	22.843	118283	10.150	ppb	m
31) t 1,3,5-trimethylbenzen...	24.341	174798	10.266	ppb	
32) 1,2,4-trimethylbenzen...	24.869	128926	10.285	ppb	m
33) naphthalene #2	27.798	97572	9.194	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	128820	10.278	ppb	

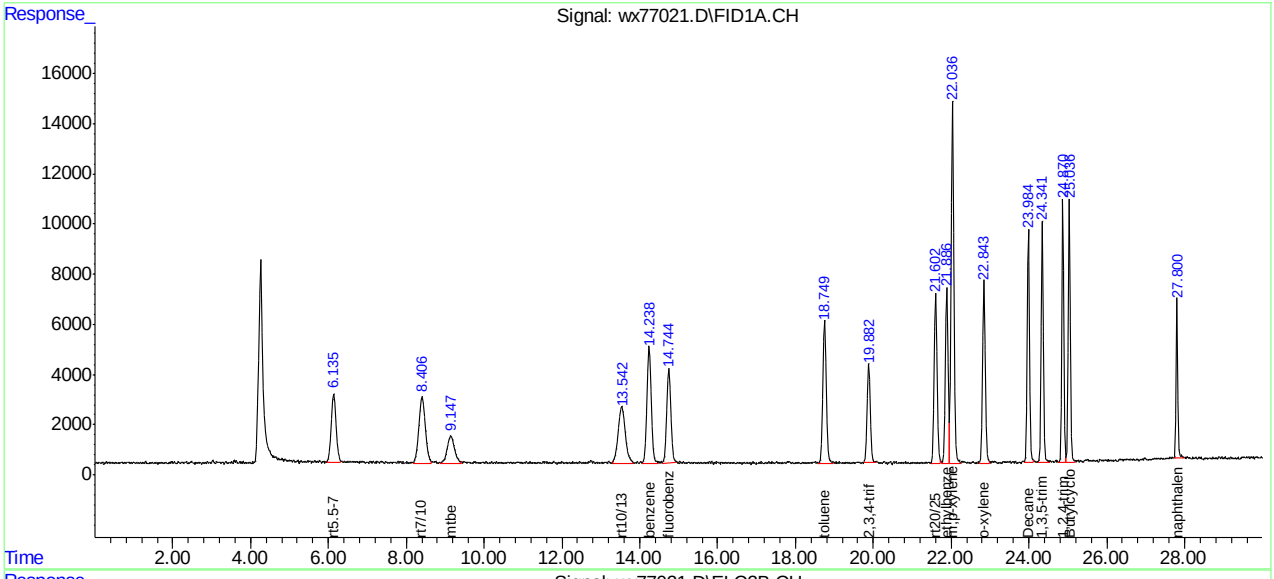
(f)=RT Delta > 1/2 Window (m)=manual int.

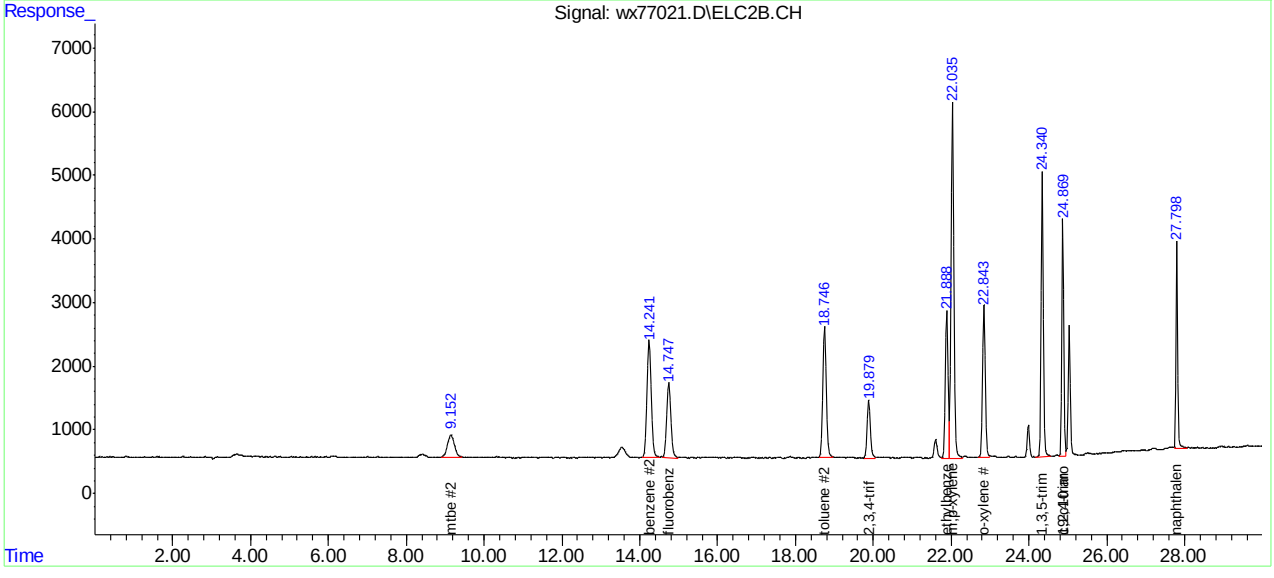
Quantitation Report (QT Reviewed)

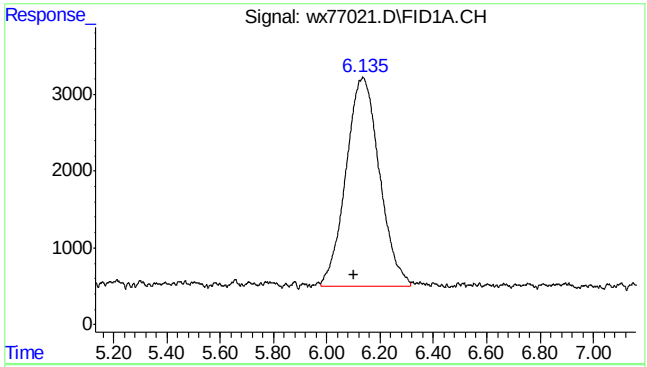
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:48:01 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

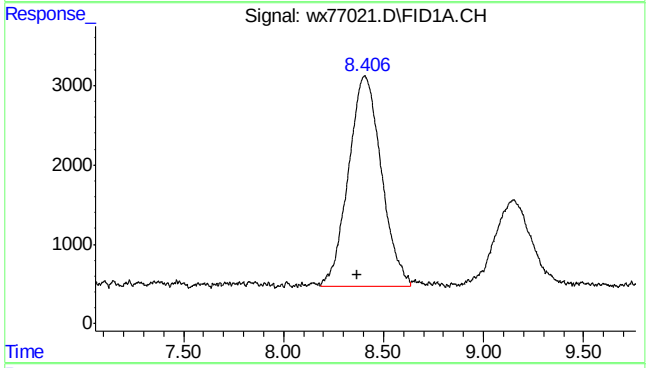






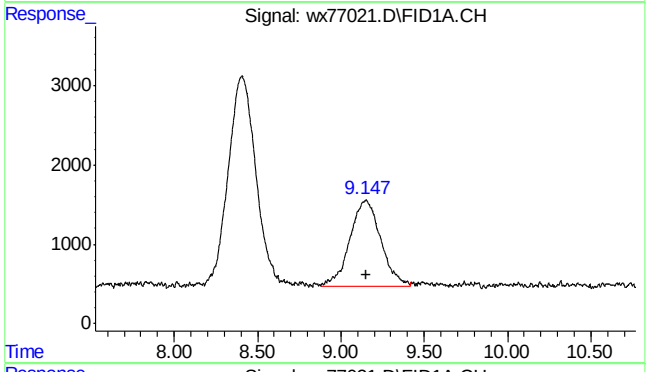
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 236774
Conc: 11.10 ppb m



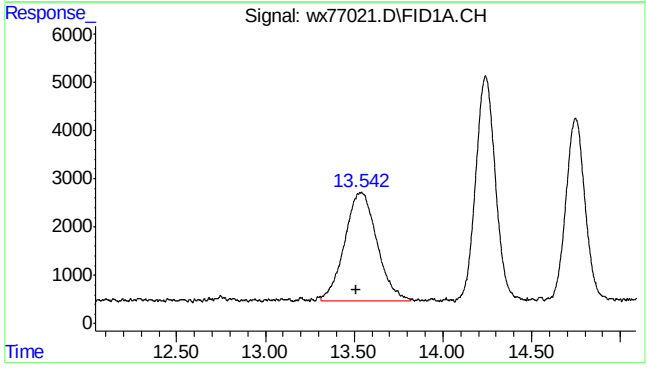
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 303053
Conc: 10.79 ppb m



#3 mtbe

R.T.: 9.147 min
Delta R.T.: -0.003 min
Response: 137995
Conc: 10.78 ppb m



#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 285251
Conc: 13.29 ppb m

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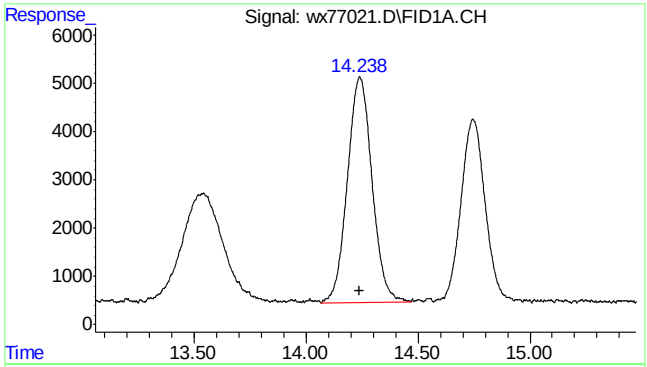
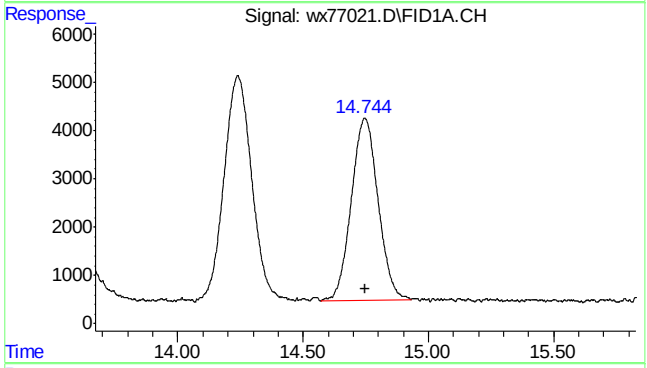


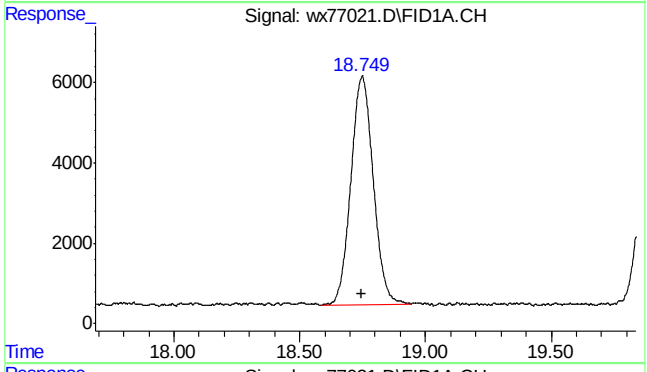
#5 benzene

R.T.: 14.238 min
Delta R.T.: 0.000 min
Response: 360503
Conc: 10.26 ppb



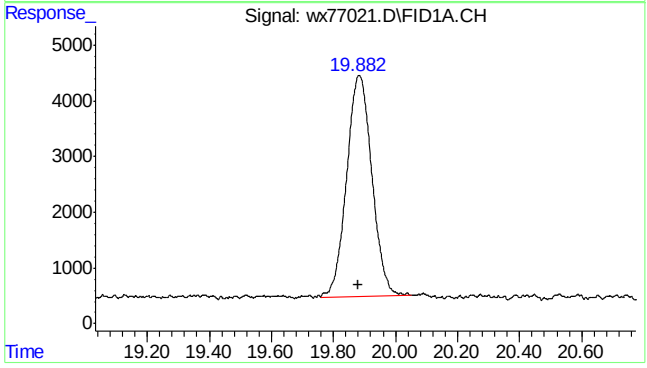
#6 fluorobenzene

R.T.: 14.745 min
Delta R.T.: -0.001 min
Response: 280296
Conc: 10.00 ppb



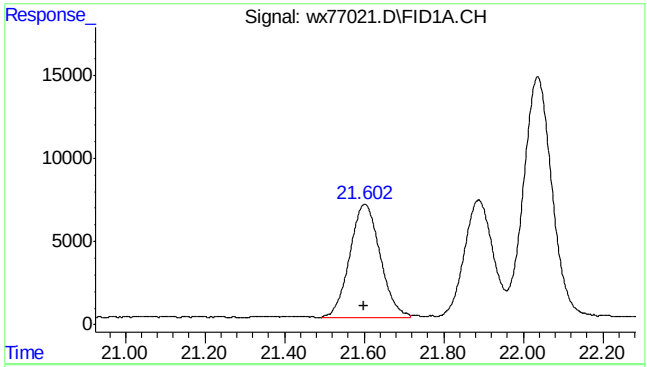
#8 toluene

R.T.: 18.749 min
Delta R.T.: 0.001 min
Response: 354162
Conc: 10.24 ppb



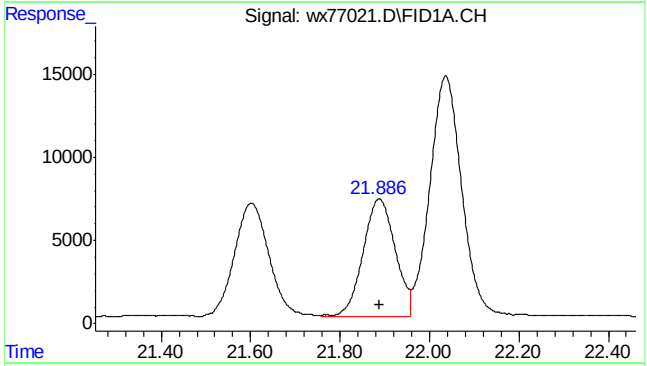
#9 2,3,4-trifluorotoluene

R.T.: 19.883 min
Delta R.T.: 0.001 min
Response: 224739
Conc: 9.91 ppb



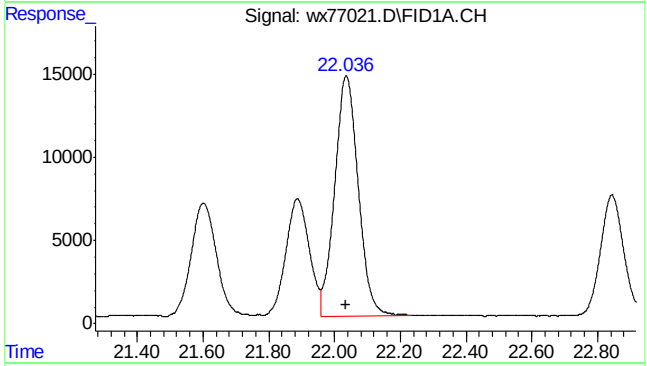
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 360524
Conc: 11.47 ppb m



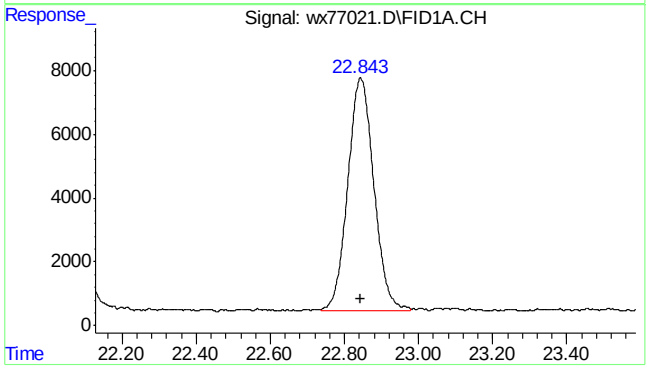
#13 ethylbenzene

R.T.: 21.888 min
Delta R.T.: 0.000 min
Response: 350442
Conc: 10.24 ppb



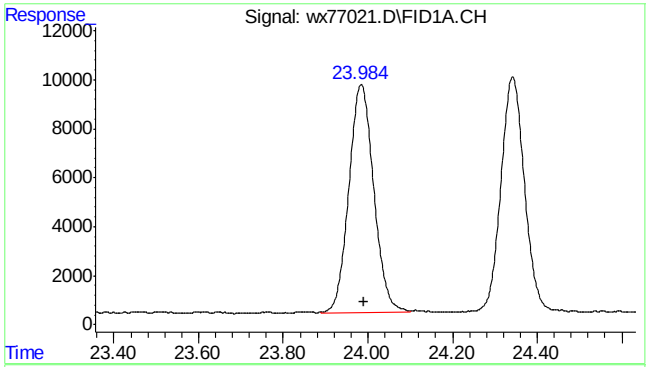
#14 m,p-xylene

R.T.: 22.036 min
Delta R.T.: 0.000 min
Response: 719678
Conc: 20.46 ppb



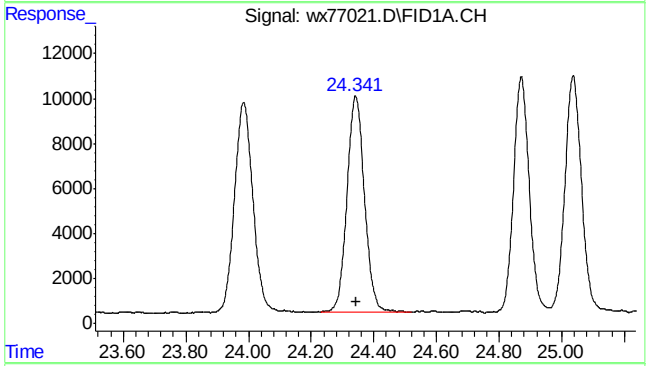
#15 o-xylene

R.T.: 22.843 min
Delta R.T.: -0.002 min
Response: 356798
Conc: 10.27 ppb m



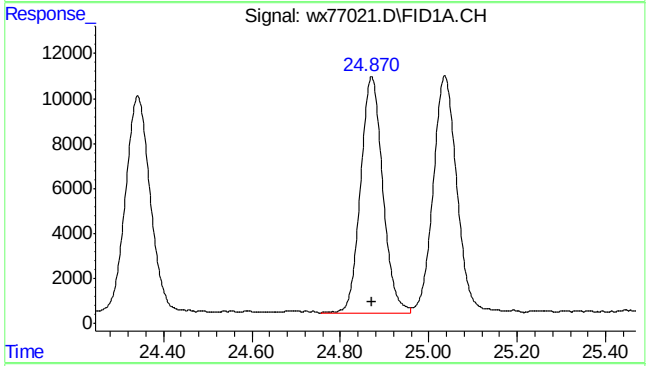
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 381152
Conc: 11.97 ppb m



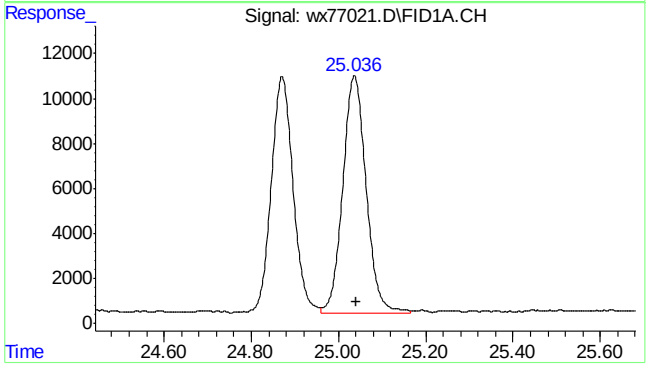
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 374857
Conc: 10.23 ppb



#18 1,2,4-trimethylbenzene

R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 364500
Conc: 10.46 ppb



#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 390458
Conc: 11.67 ppb m

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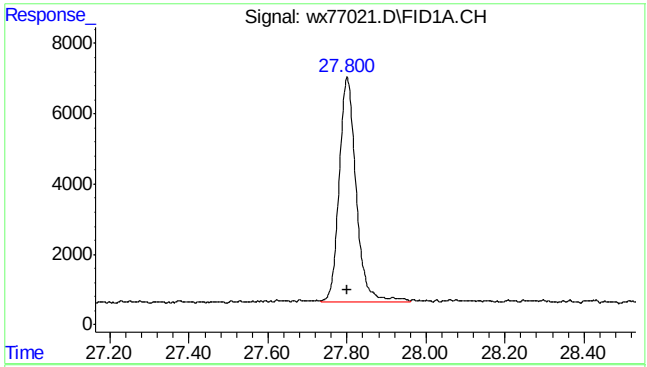
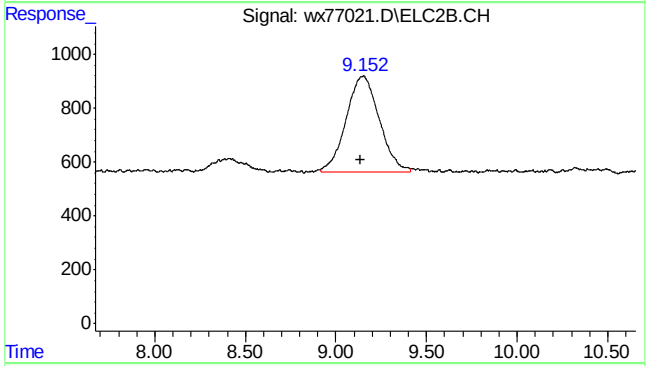


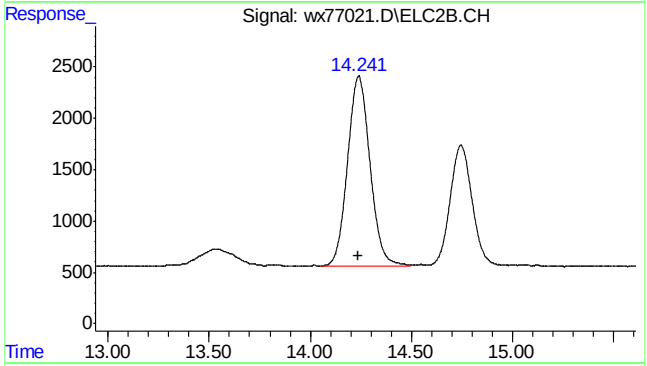
#20 naphthalene

R.T.: 27.800 min
Delta R.T.: 0.000 min
Response: 188796
Conc: 8.84 ppb m



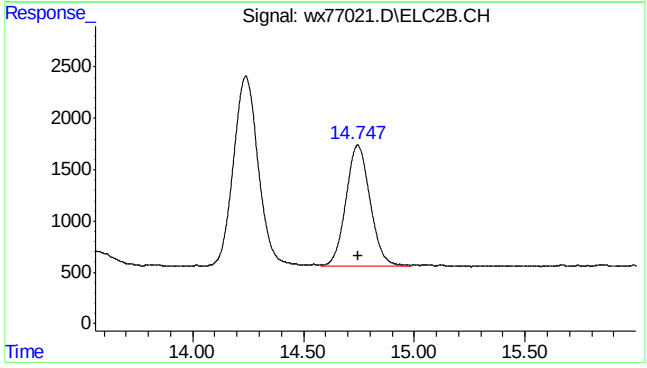
#23 mtbe #2

R.T.: 9.152 min
Delta R.T.: 0.016 min
Response: 45370
Conc: 10.26 ppb m



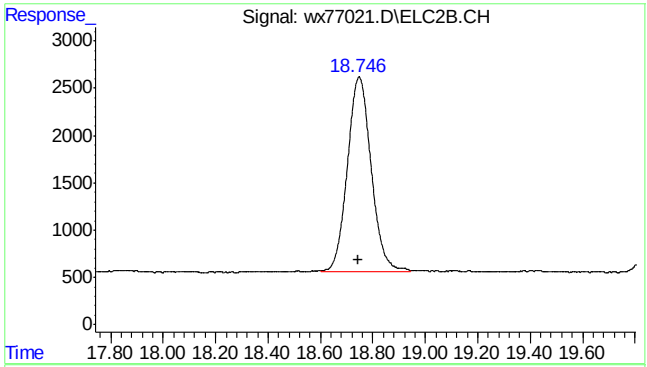
#24 benzene #2

R.T.: 14.239 min
Delta R.T.: 0.000 min
Response: 143790
Conc: 10.22 ppb



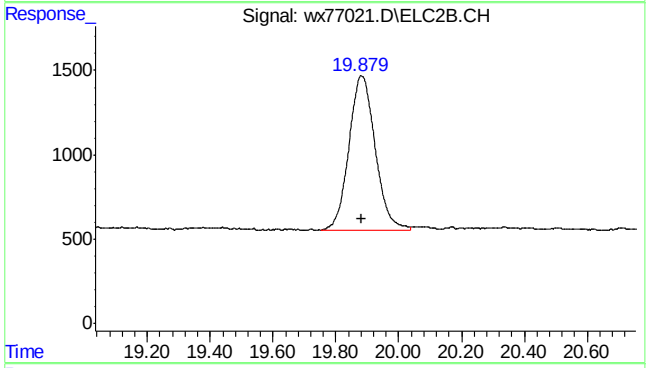
#25 fluorobenzene #2

R.T.: 14.745 min
Delta R.T.: 0.000 min
Response: 90173
Conc: 9.99 ppb



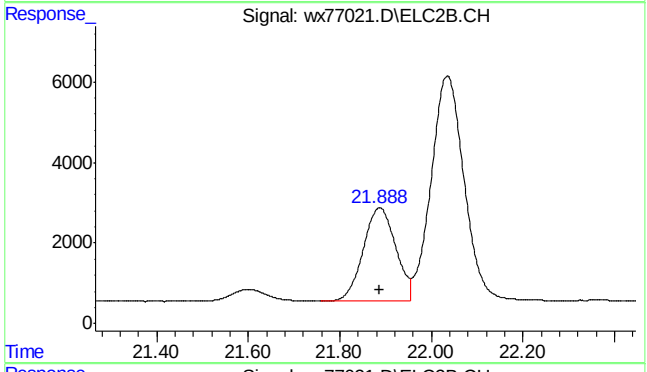
#26 toluene #2

R.T.: 18.746 min
Delta R.T.: 0.000 min
Response: 129315
Conc: 10.04 ppb m



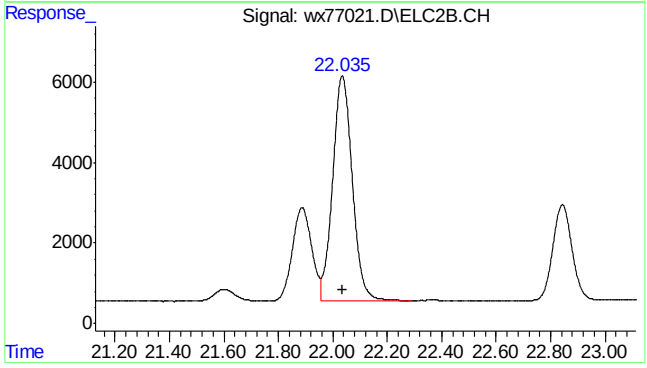
#27 2,3,4-trifluorotoluene #2

R.T.: 19.879 min
Delta R.T.: -0.003 min
Response: 53267
Conc: 10.04 ppb m



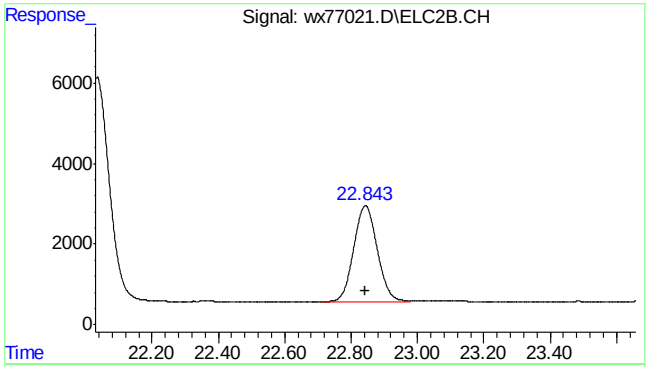
#28 ethylbenzene #2

R.T.: 21.887 min
Delta R.T.: 0.000 min
Response: 115115
Conc: 10.11 ppb



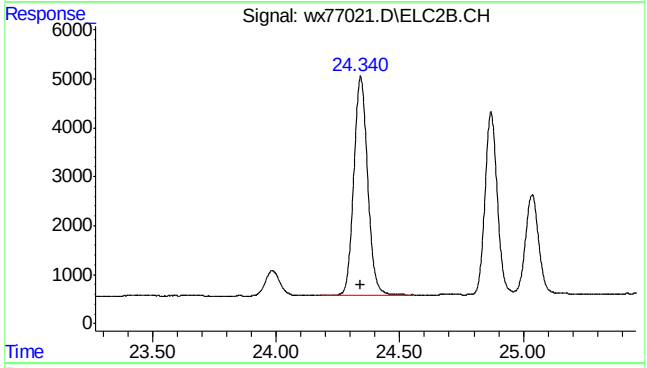
#29 m,p-xylene #2

R.T.: 22.035 min
Delta R.T.: 0.000 min
Response: 282507
Conc: 20.37 ppb



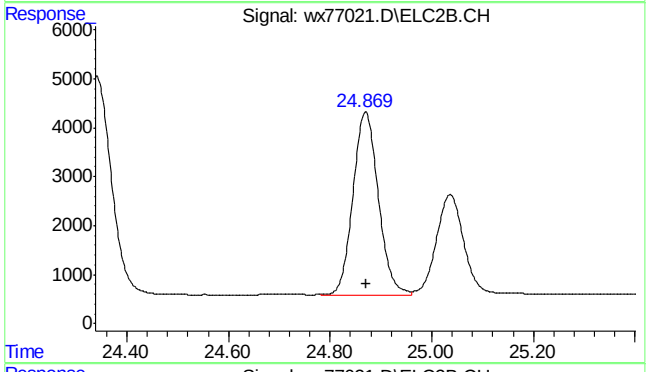
#30 o-xylene #2

R.T.: 22.843 min
Delta R.T.: 0.000 min
Response: 118283
Conc: 10.15 ppb m



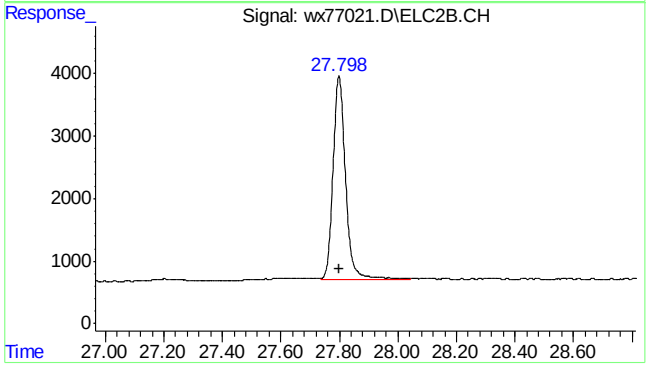
#31 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 174798
Conc: 10.27 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 24.869 min
Delta R.T.: 0.000 min
Response: 128926
Conc: 10.28 ppb m



#33 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 97572
Conc: 9.19 ppb m

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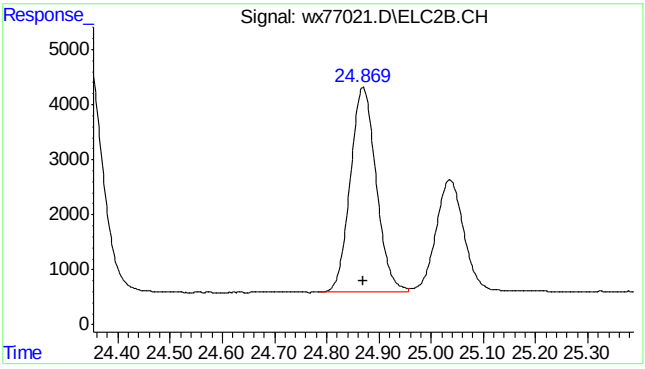

#34 c9-c10 arom as 1,2,4-tmb

R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	128820
Conc:	10.28 ppb m

7.5.6

7

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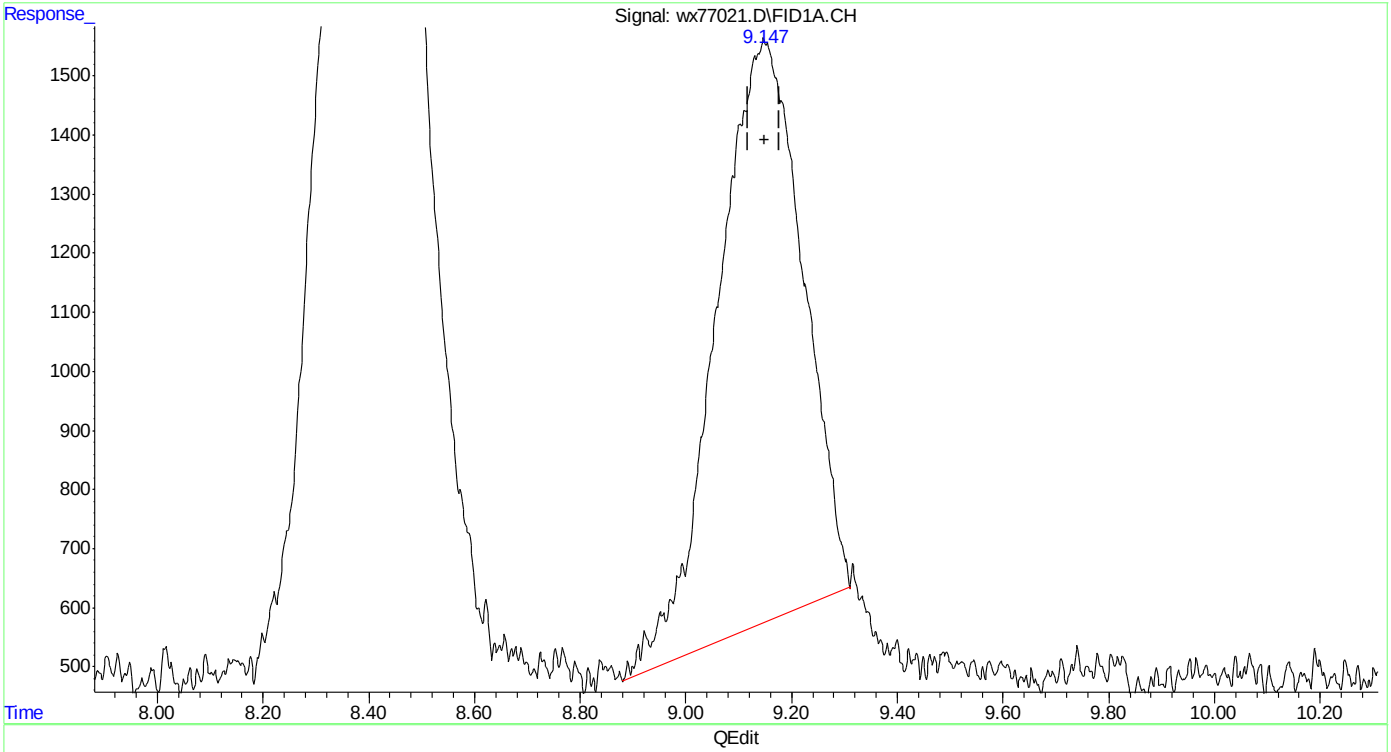
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.148min 8.748 ppb
response 112019

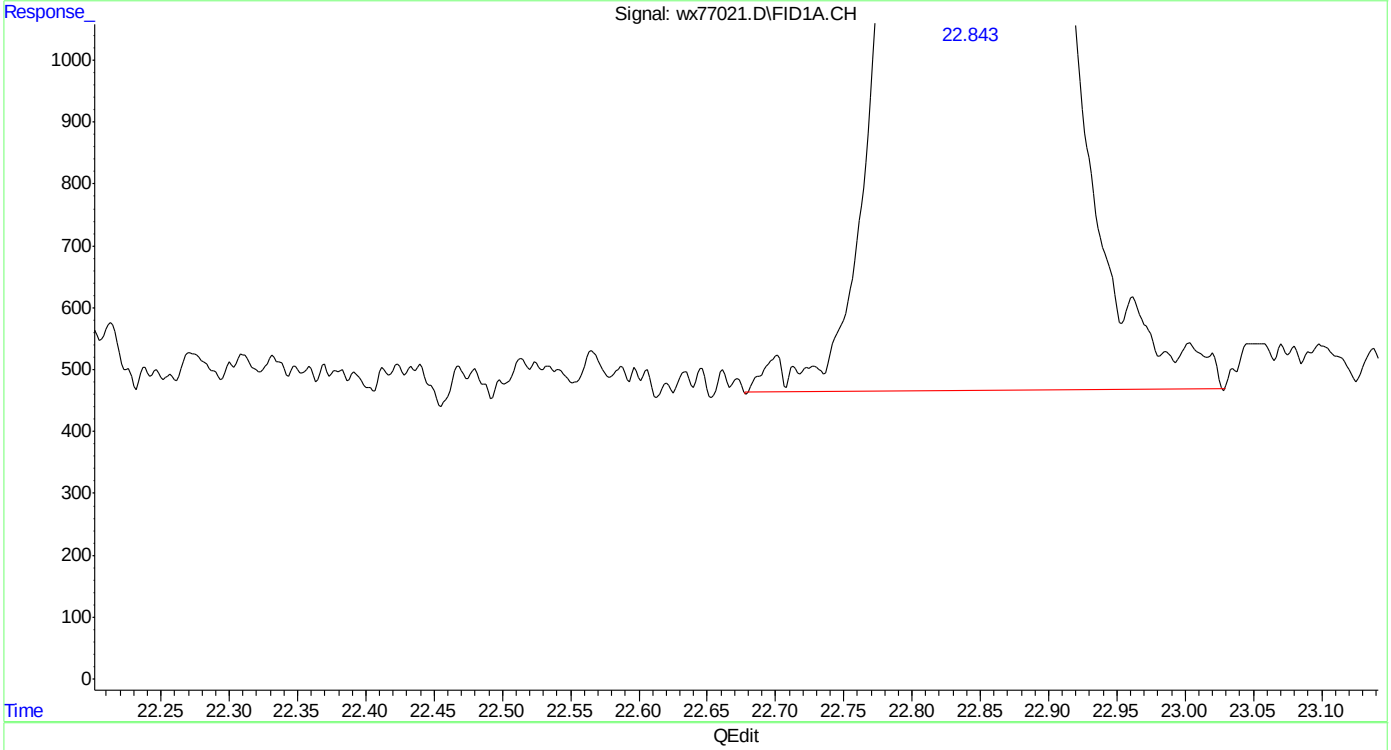
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:44:19 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.844min 10.369 ppb
response 360326

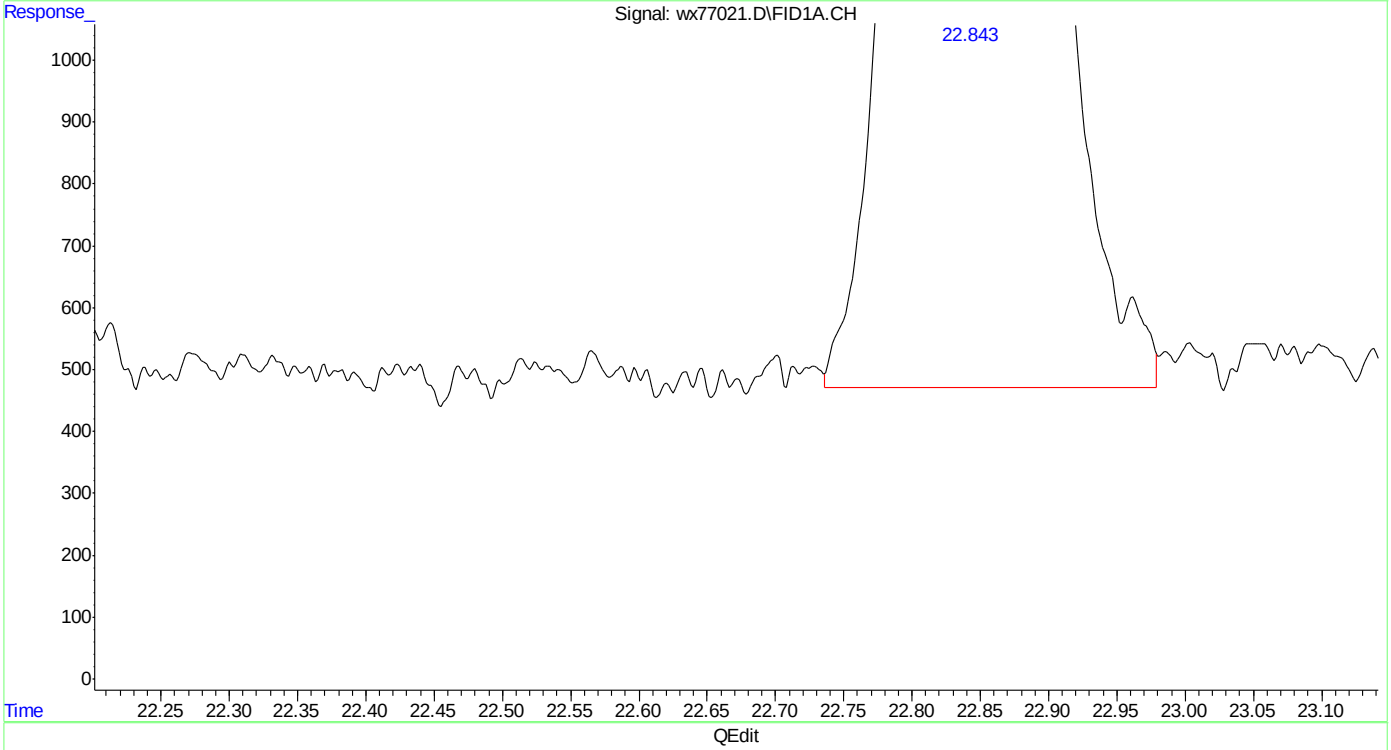
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:45:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.843min 10.268 ppb m
response 356798

(+) = Expected Retention Time

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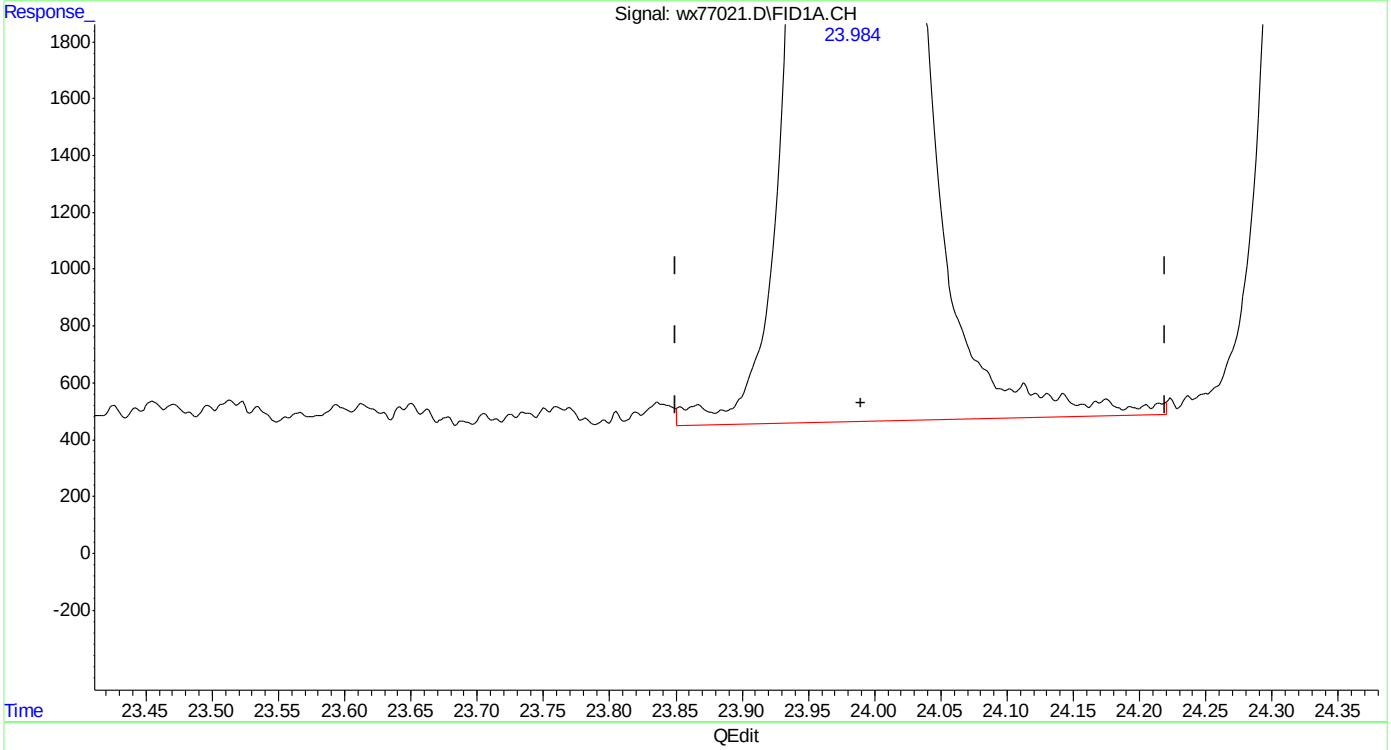
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 12.254 ppb
response 390276

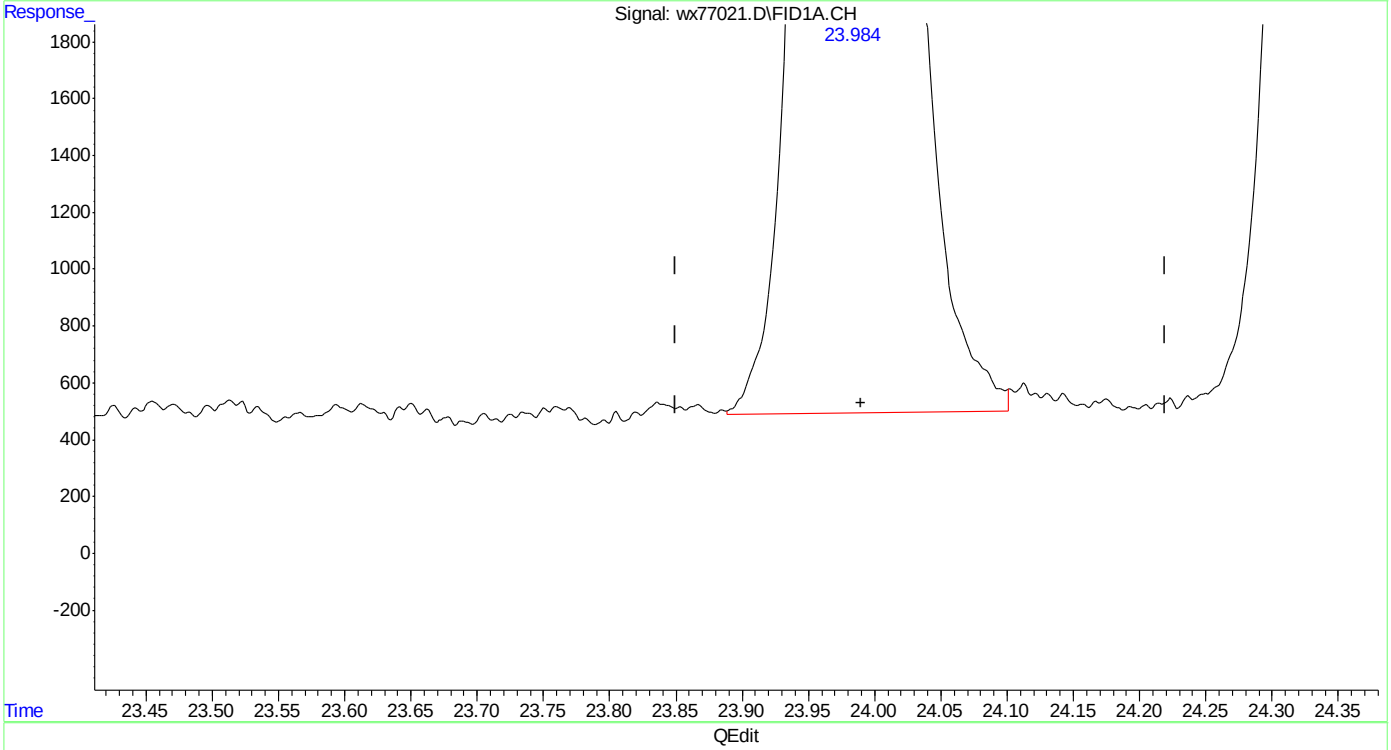
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:45:15 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 11.968 ppb m
response 381152

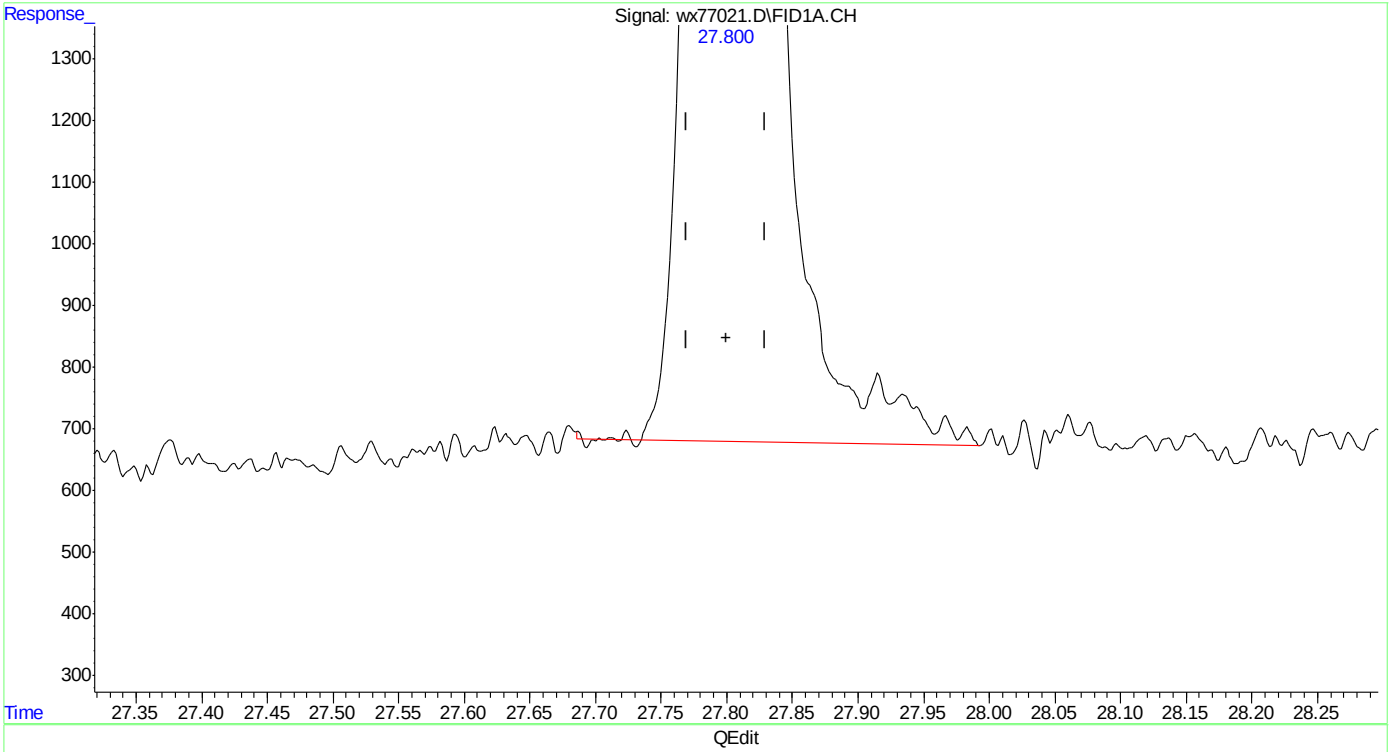
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.801min 8.762 ppb
response 187056

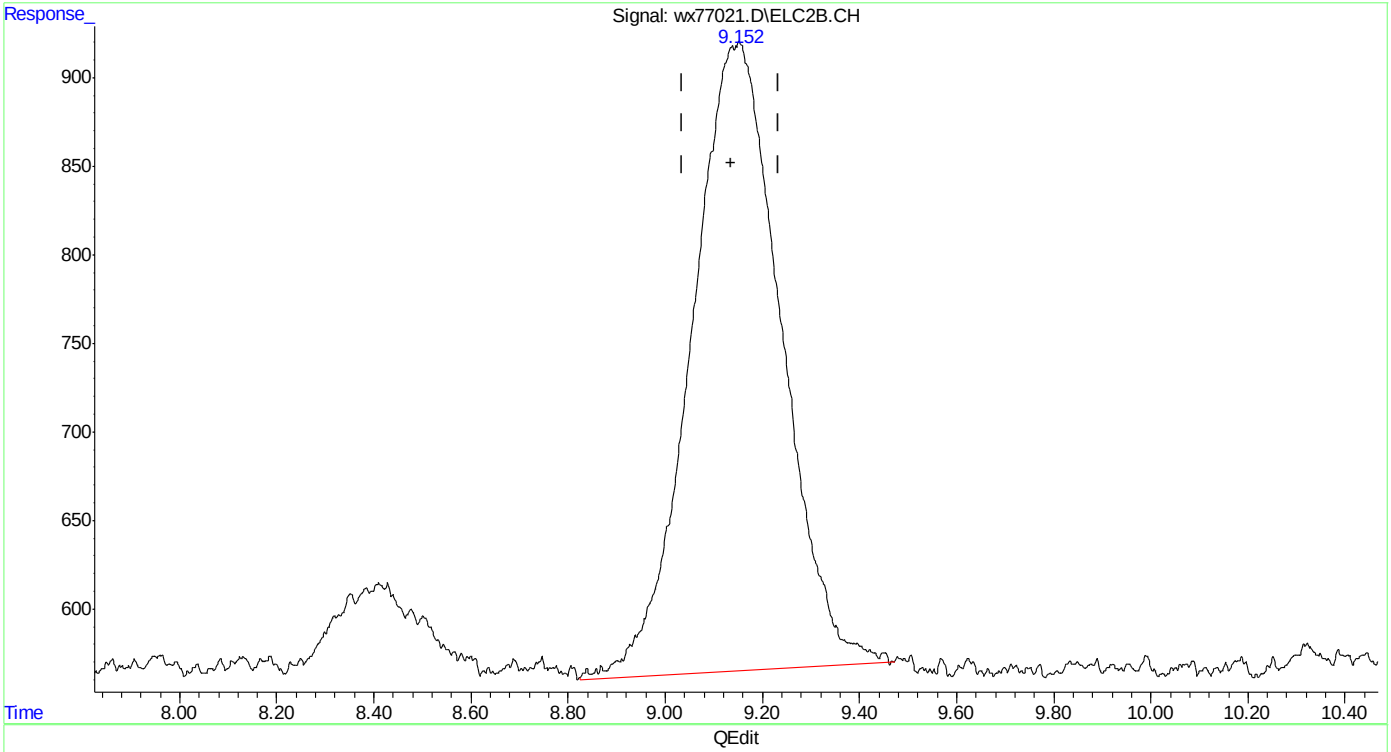
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:45:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.152min 10.265 ppb
response 45389

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:45:53 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(23) mtbe #2
9.152min 10.261 ppb m
response 45370

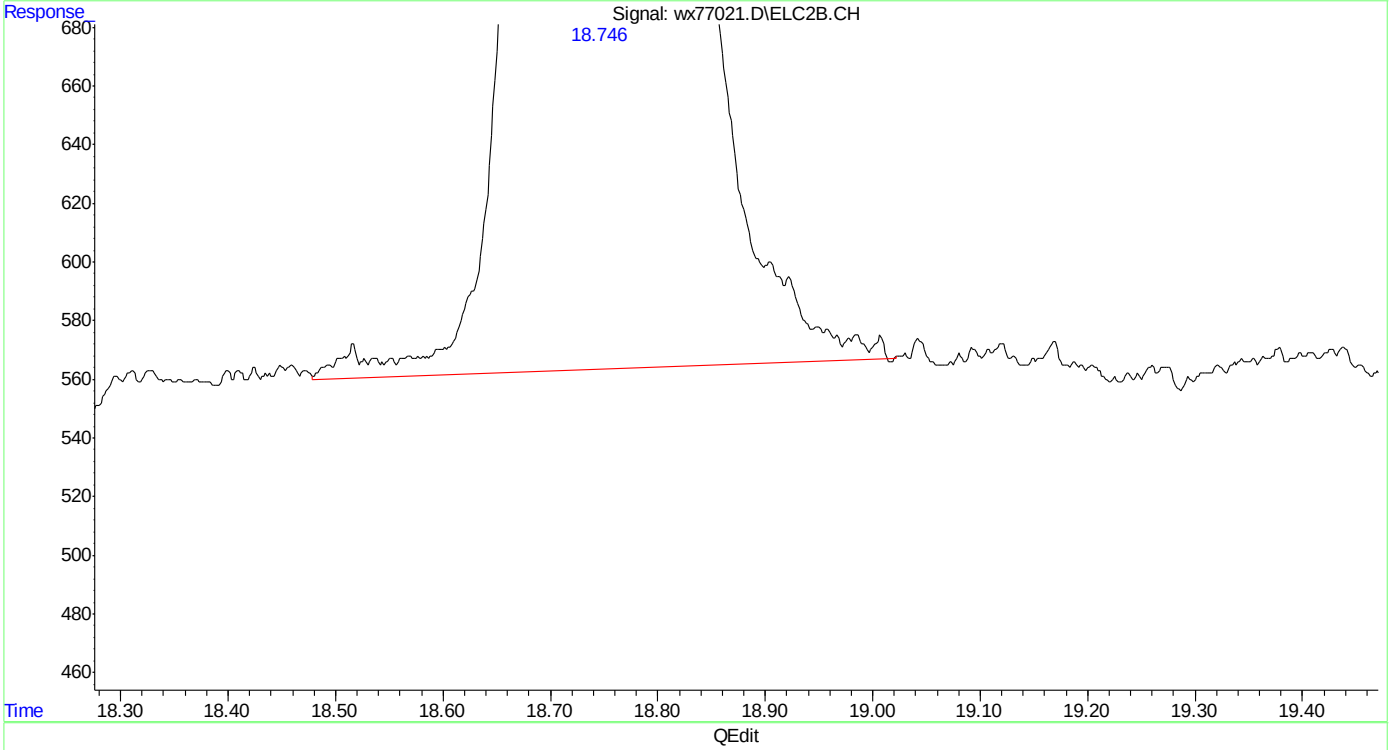
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:05 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.747min 10.117 ppb
response 130277

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:13 2016

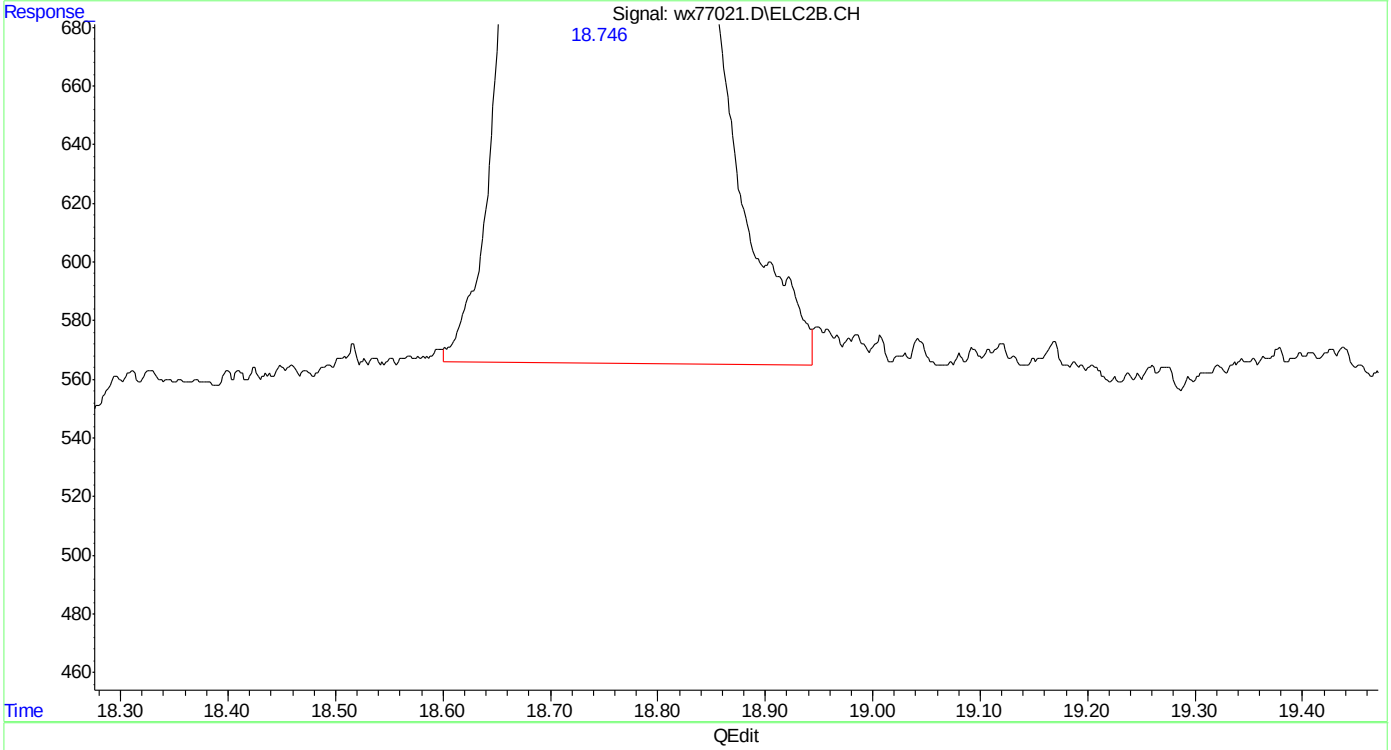
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.746min 10.042 ppb m
response 129315

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(27) 2,3,4-trifluorotoluene #2 (s)
19.882min 10.155 ppb
response 53855

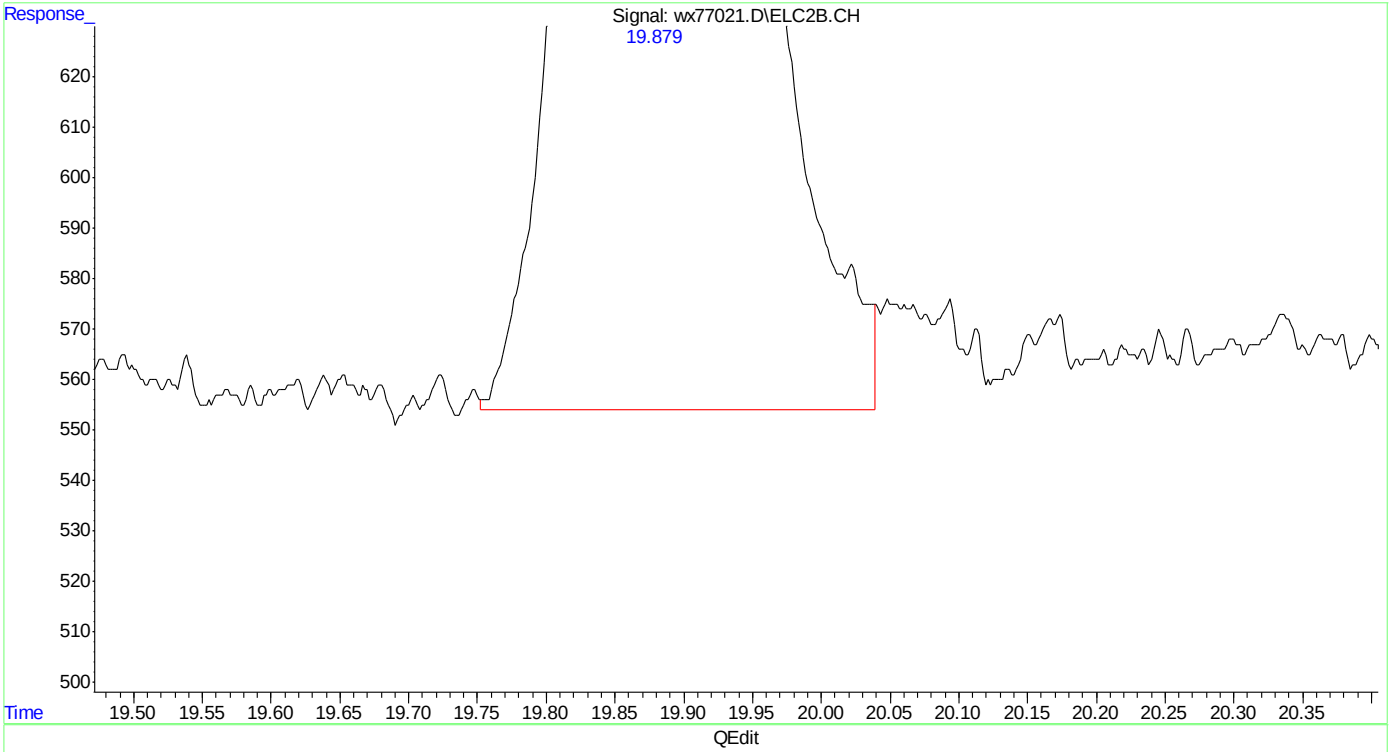
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.879min 10.045 ppb m
response 53267

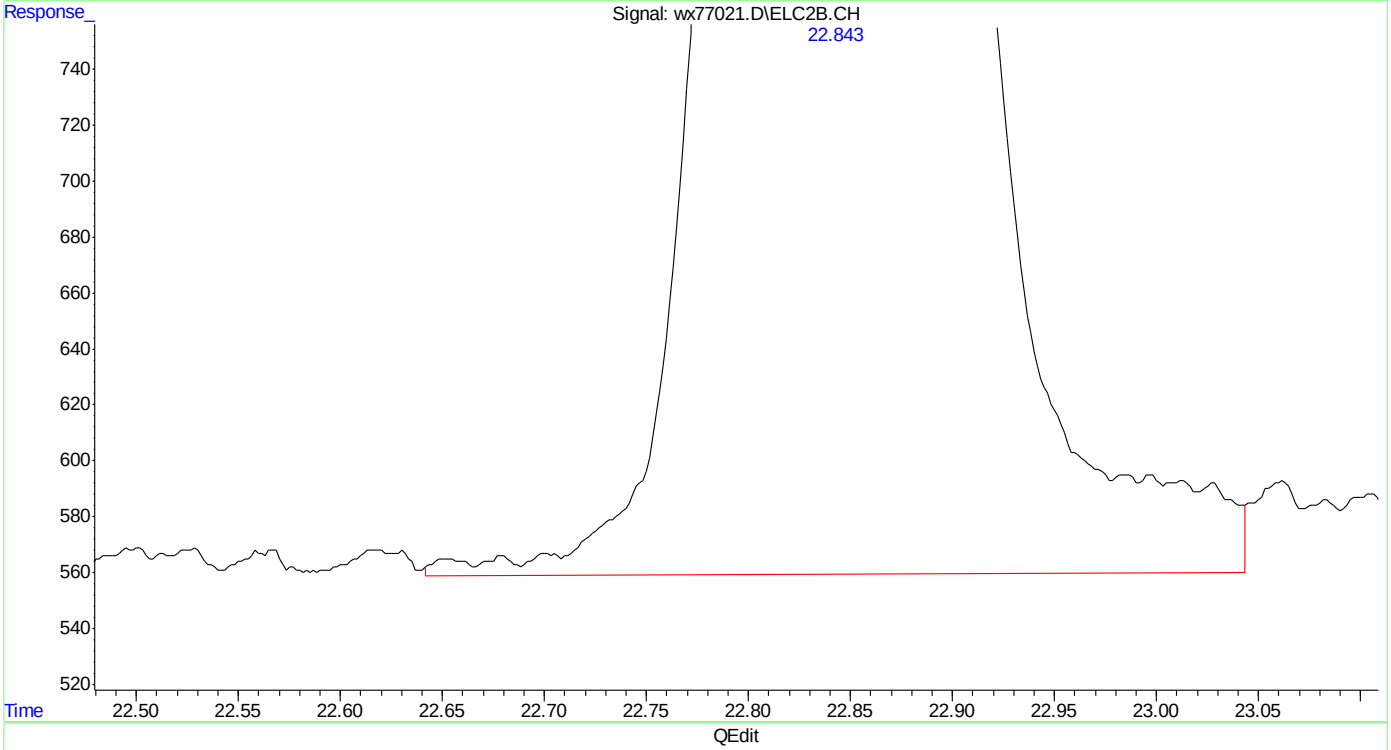
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.844min 10.328 ppb
response 120362

(+) = Expected Retention Time

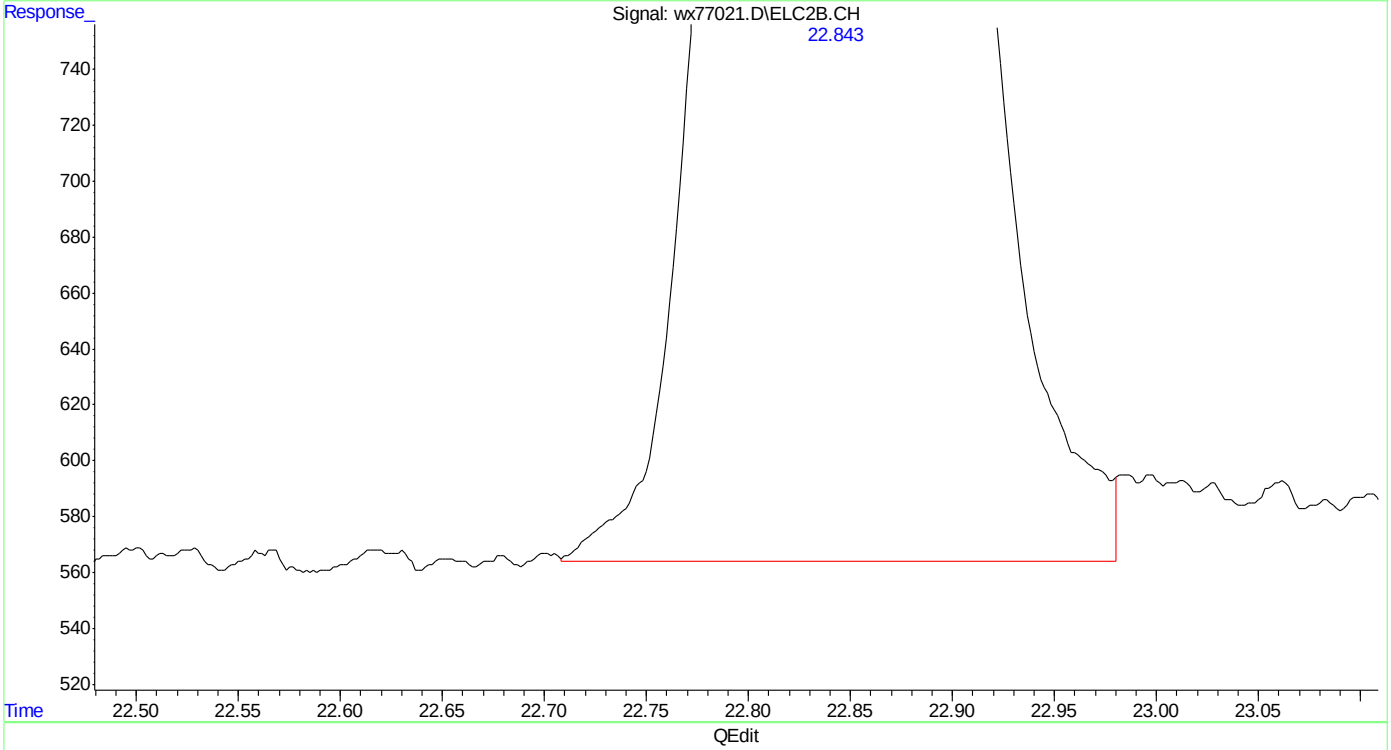
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.843min 10.150 ppb m
response 118283

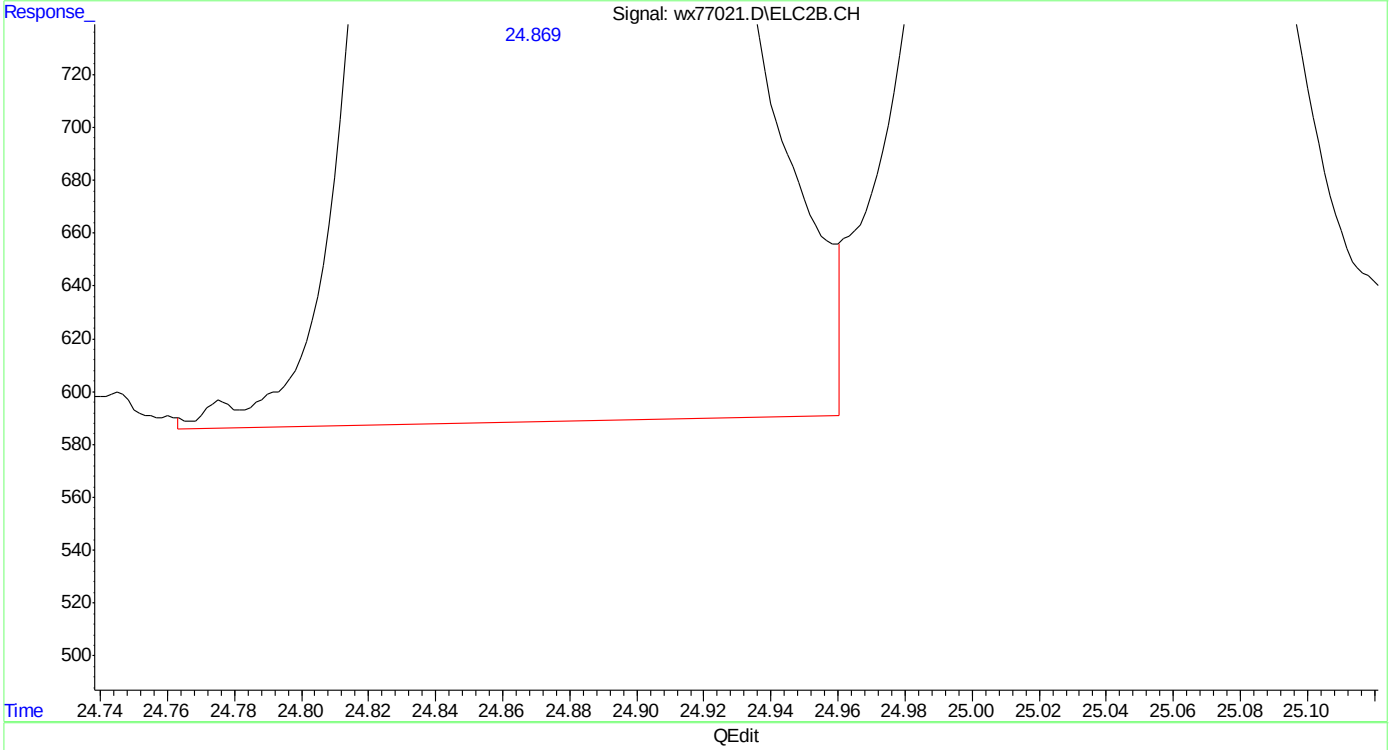
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.870min 10.311 ppb
response 129259

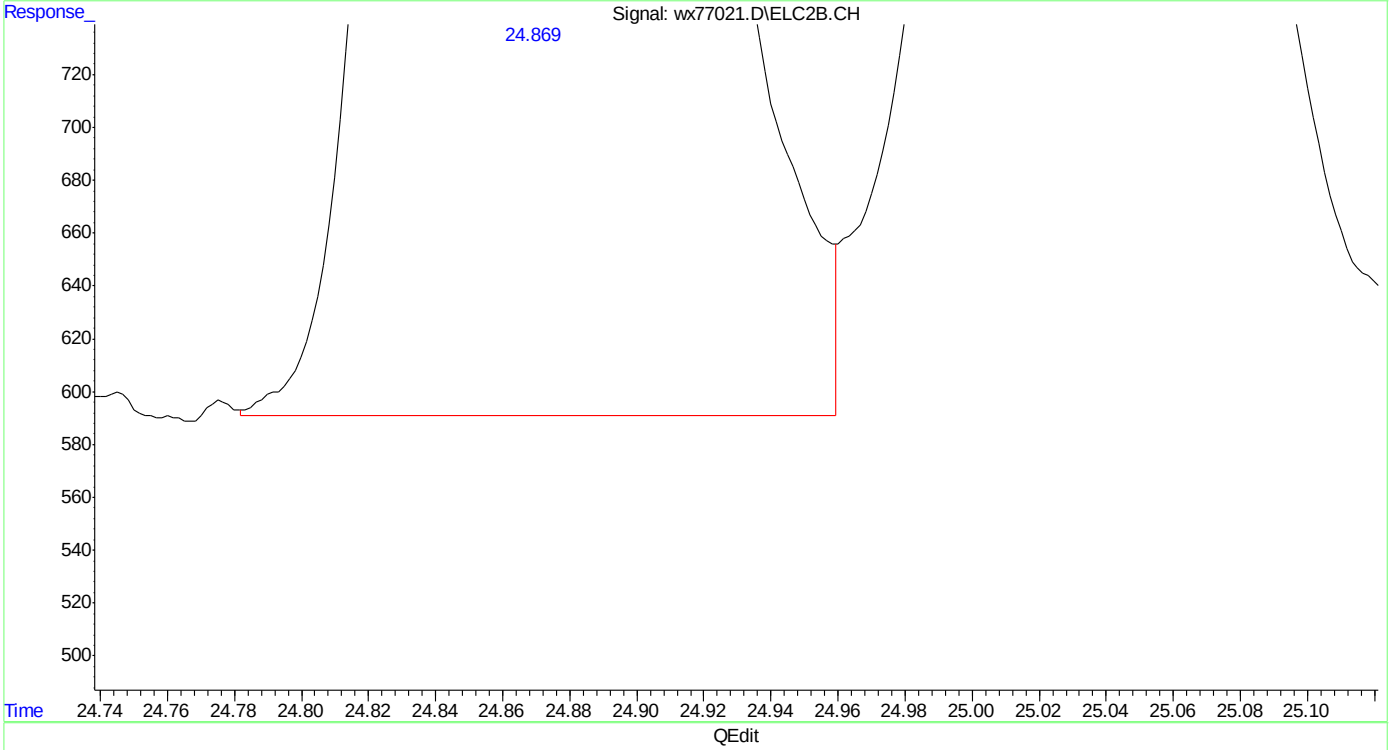
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.869min 10.285 ppb m
response 128926

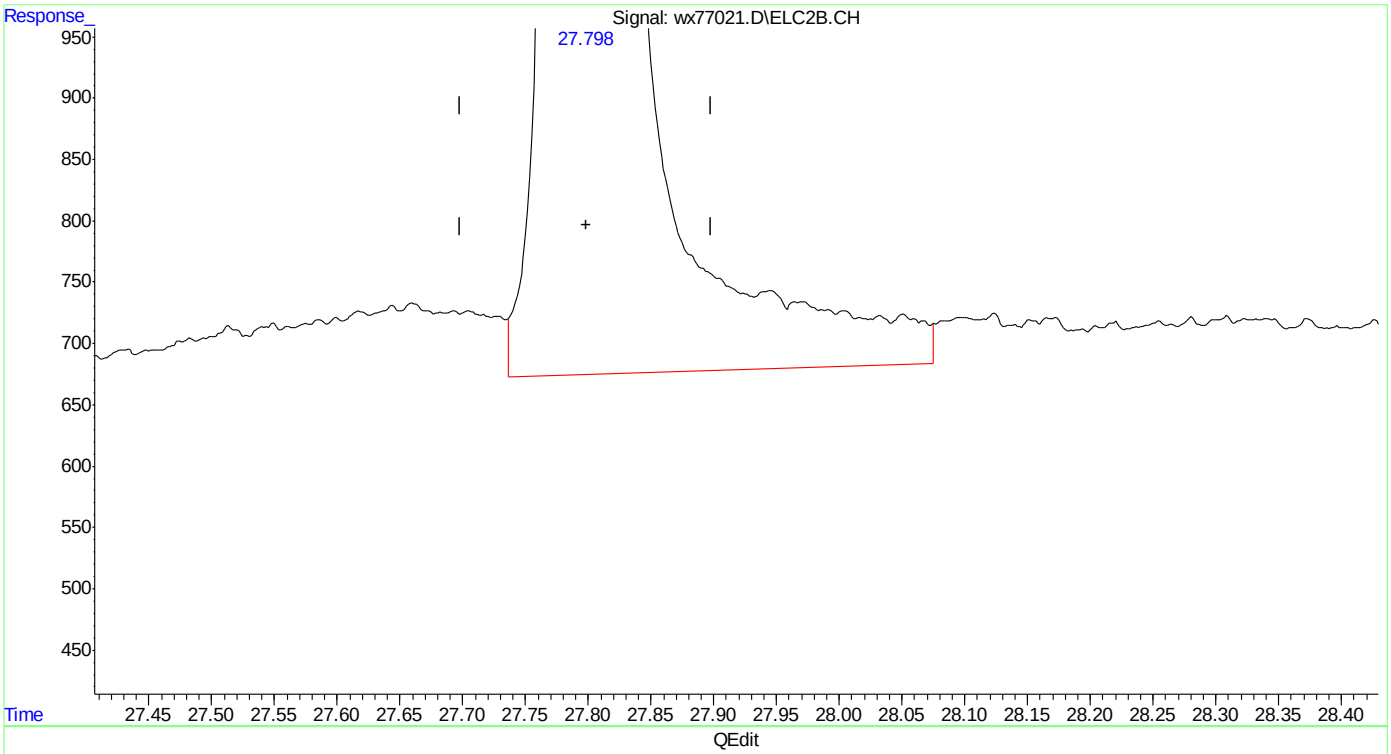
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:47:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 9.706 ppb
response 103007

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:47:14 2016 Page: 1

WX77022.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:54:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.743	141446	5.046	ppb	m
Spiked Amount 50.000		Recovery = 10.09%			
9) s 2,3,4-trifluorotoluene	19.882	115265	5.104	ppb	m
Spiked Amount 50.000		Recovery = 10.21%			
25) s fluorobenzene #2	14.749	45111	5.000	ppb	
Spiked Amount 50.000		Recovery = 10.00%			
27) s 2,3,4-trifluorotoluen...	19.886	27239	5.125	ppb	
Spiked Amount 50.000		Recovery = 10.25%			
Target Compounds					
1) h rt5.5-7	6.100	118886	5.284	ppb	
2) h rt7/10	8.370	150938	5.171	ppb	
3) mtbe	9.120f	67435	5.069	ppb	m
4) h rt10/13	13.510	143485	5.741	ppb	
5) benzene	14.243	179050	5.030	ppb	
8) toluene	18.751	176758	5.050	ppb	m
11) h rt20/25	21.600	181001	5.364	ppb	
13) ethylbenzene	21.889	173902	5.022	ppb	m
14) m,p-xylene	22.037	362950	10.202	ppb	
15) o-xylene	22.843	181696	5.160	ppb	m
16) h Decane	23.990	182417	5.215	ppb	
17) t 1,3,5-trimethylbenzene	24.342	187866	5.069	ppb	
18) 1,2,4-trimethylbenzene	24.871	179869	5.045	ppb	
19) h Butylcyclohexane	25.040	189639	5.231	ppb	
20) naphthalene	27.800	84812	4.217	ppb	m
23) mtbe #2	9.145	23052	5.146	ppb	m
24) benzene #2	14.240	72274	5.080	ppb	m
26) toluene #2	18.750	64987	5.036	ppb	
28) ethylbenzene #2	21.889	58064	5.073	ppb	
29) m,p-xylene #2	22.037	141245	10.092	ppb	
30) o-xylene #2	22.844	58928	5.019	ppb	m
31) t 1,3,5-trimethylbenzen...	24.342	86843	5.033	ppb	
32) 1,2,4-trimethylbenzen...	24.870	64583	5.080	ppb	
33) naphthalene #2	27.798	44461	4.365	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	64428	5.070	ppb	

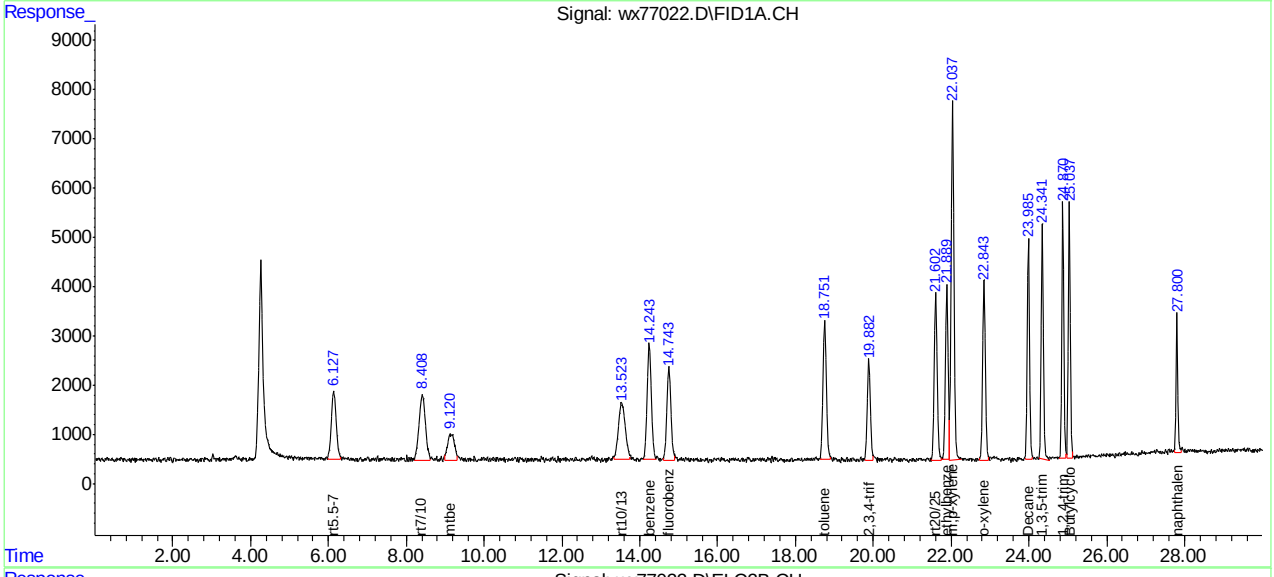
(f)=RT Delta > 1/2 Window (m)=manual int.

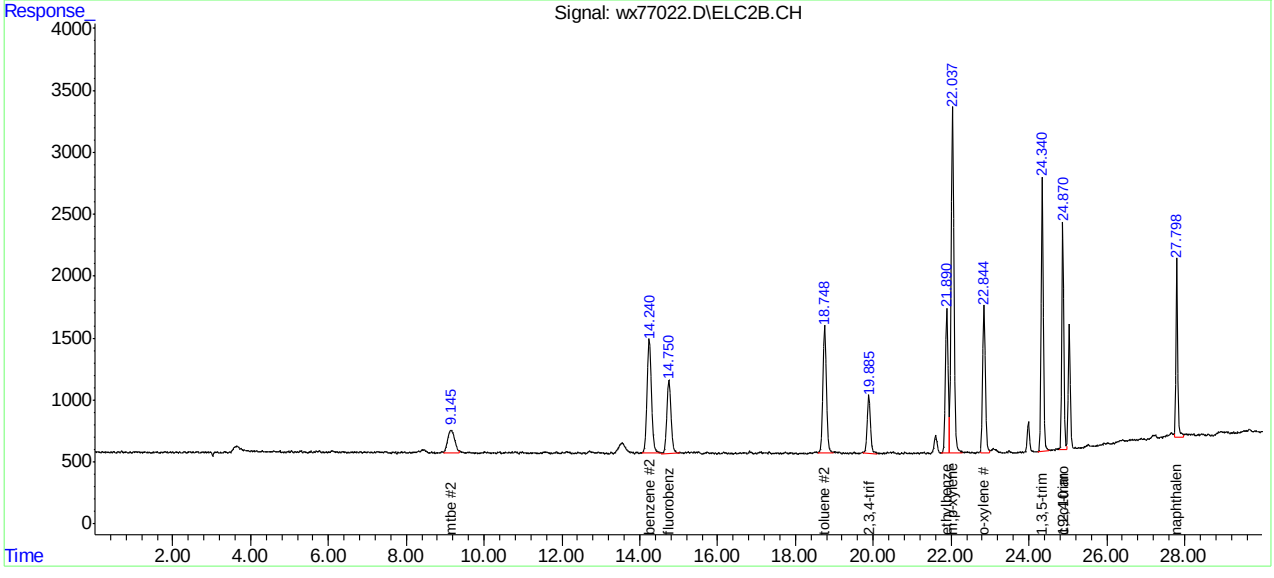
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:54:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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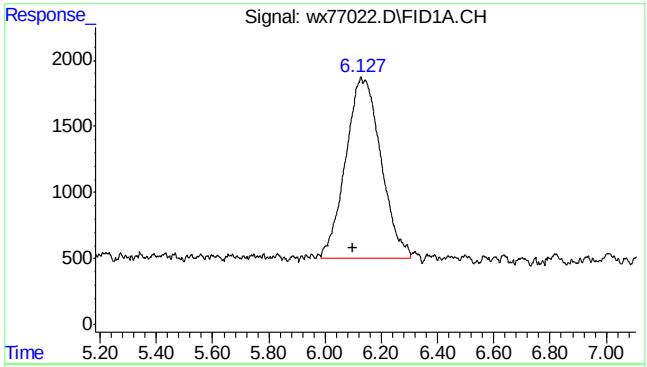
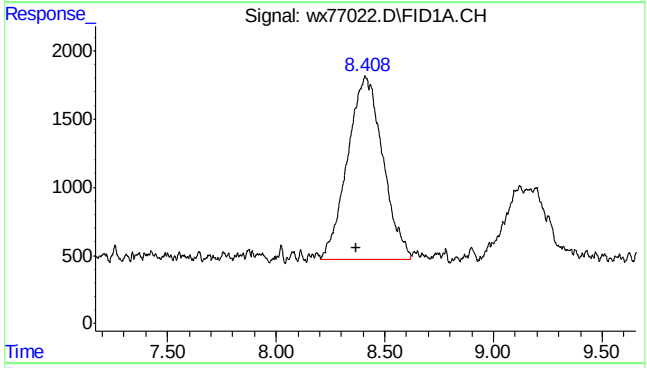


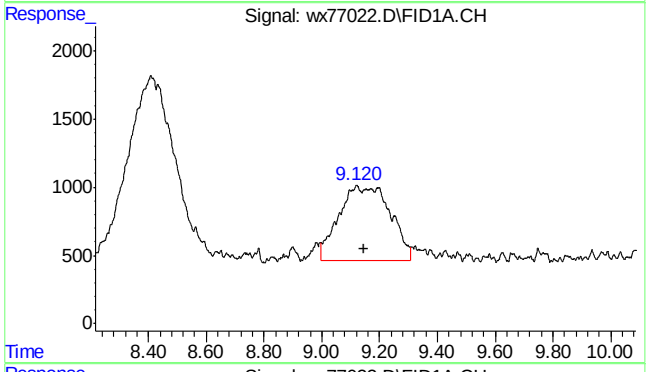
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 118886
Conc: 5.28 ppb m



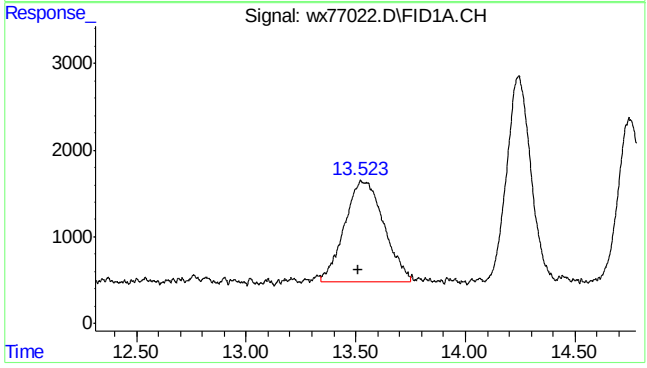
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 150938
Conc: 5.17 ppb m



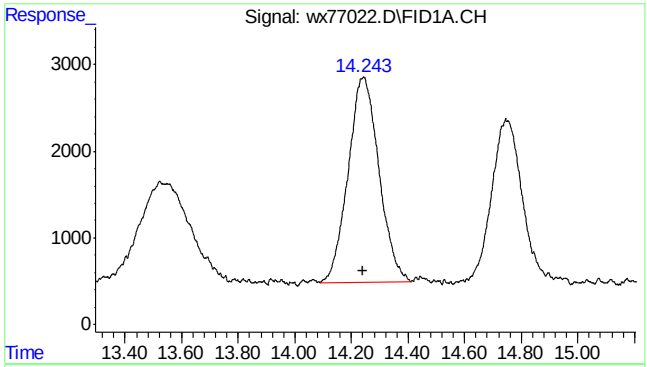
#3 mtbe

R.T.: 9.120 min
Delta R.T.: -0.027 min
Response: 67435
Conc: 5.07 ppb m



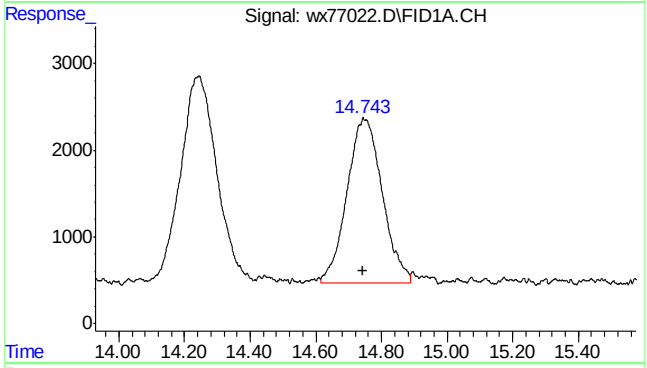
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 143485
Conc: 5.74 ppb m



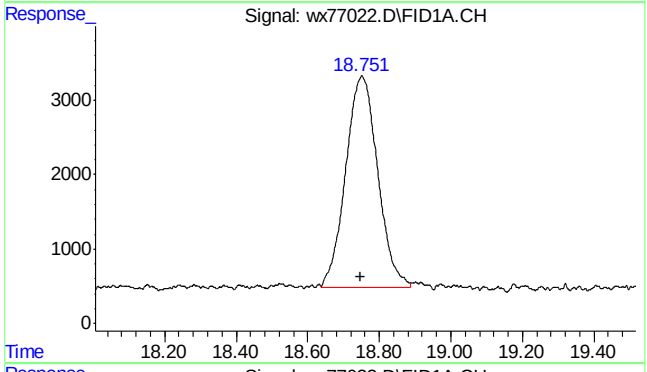
#5 benzene

R.T.: 14.243 min
Delta R.T.: 0.005 min
Response: 179050
Conc: 5.03 ppb



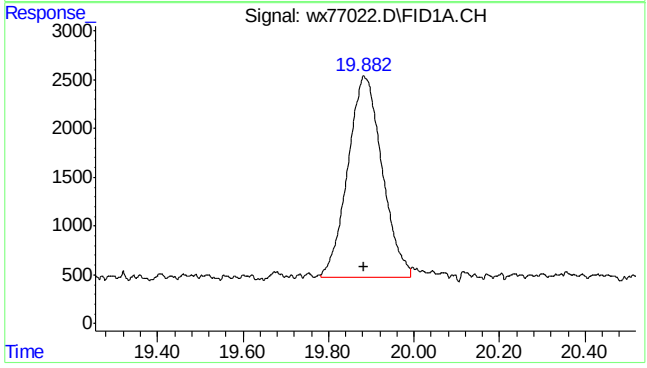
#6 fluorobenzene

R.T.: 14.743 min
Delta R.T.: -0.002 min
Response: 141446
Conc: 5.05 ppb m



#8 toluene

R.T.: 18.751 min
Delta R.T.: 0.001 min
Response: 176758
Conc: 5.05 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 19.882 min
Delta R.T.: 0.000 min
Response: 115265
Conc: 5.10 ppb m

7.5.7

7

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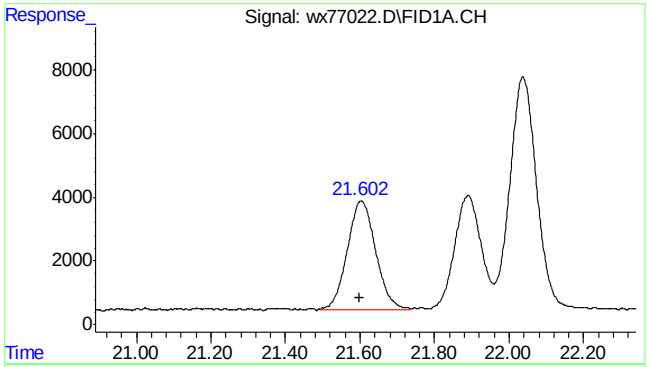
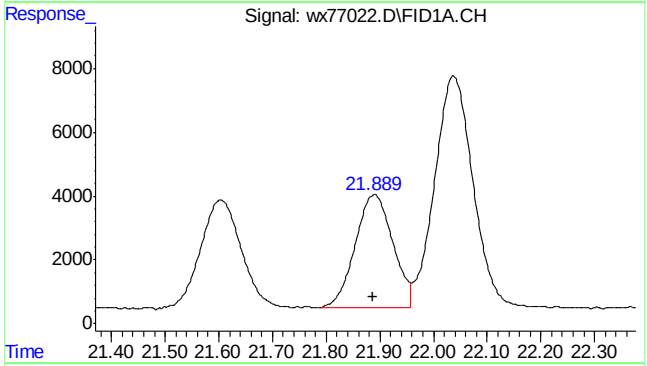


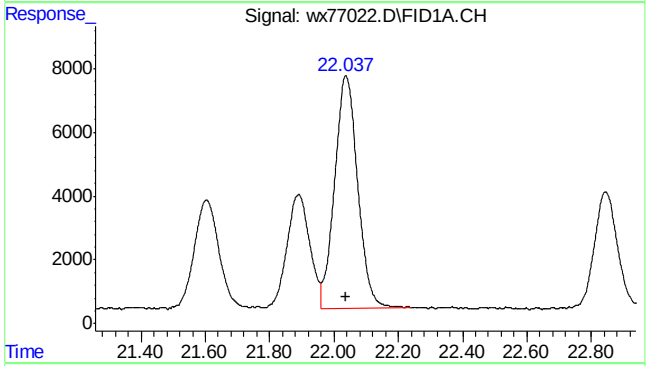
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 181001
Conc: 5.36 ppb m



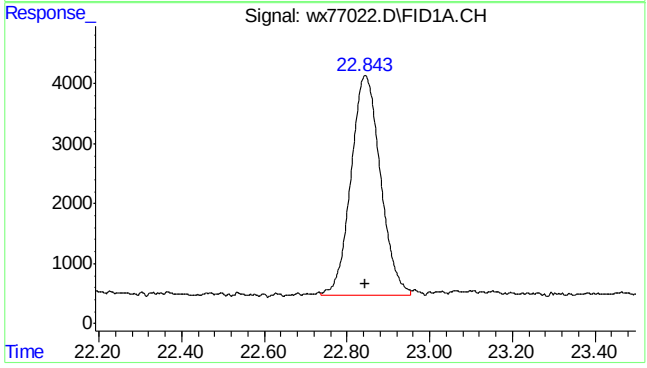
#13 ethylbenzene

R.T.: 21.889 min
Delta R.T.: 0.001 min
Response: 173902
Conc: 5.02 ppb m



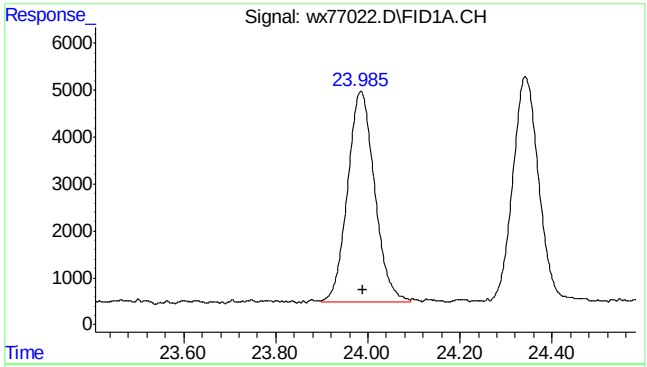
#14 m,p-xylene

R.T.: 22.037 min
Delta R.T.: 0.001 min
Response: 362950
Conc: 10.20 ppb



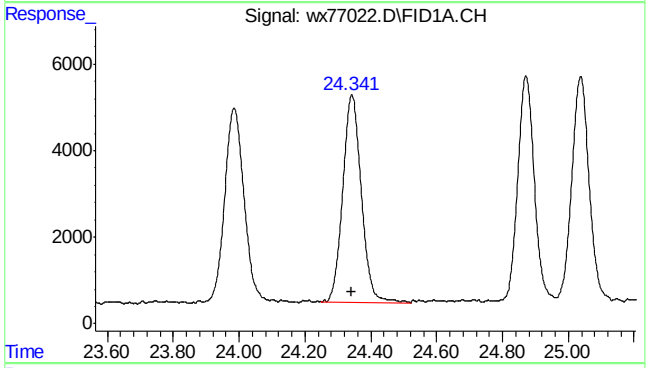
#15 o-xylene

R.T.: 22.843 min
Delta R.T.: 0.000 min
Response: 181696
Conc: 5.16 ppb m



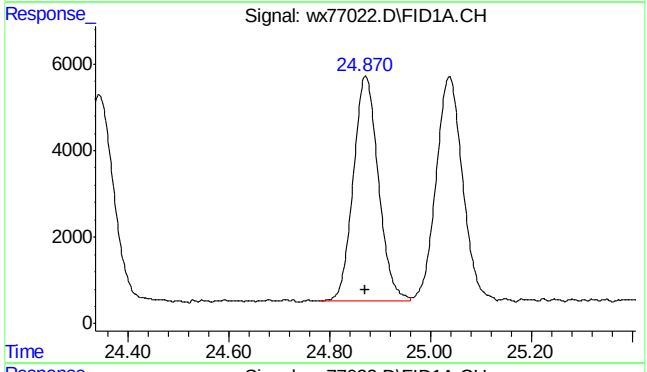
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 182417
Conc: 5.21 ppb m



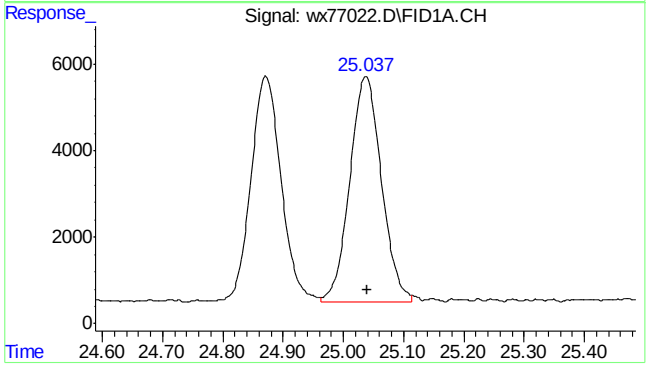
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 187866
Conc: 5.07 ppb



#18 1,2,4-trimethylbenzene

R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 179869
Conc: 5.04 ppb



#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 189639
Conc: 5.23 ppb m

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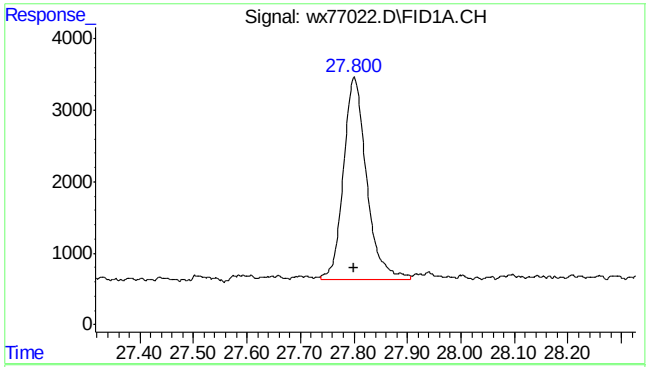
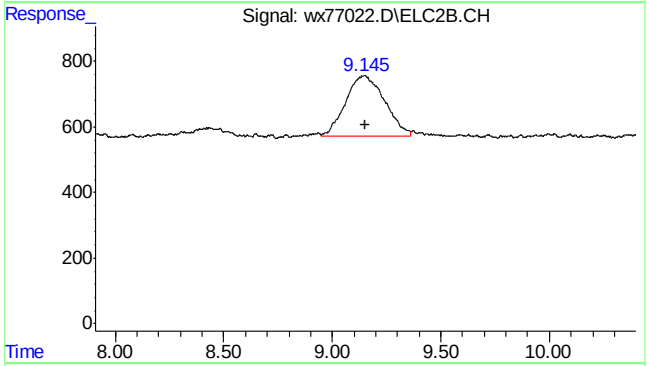


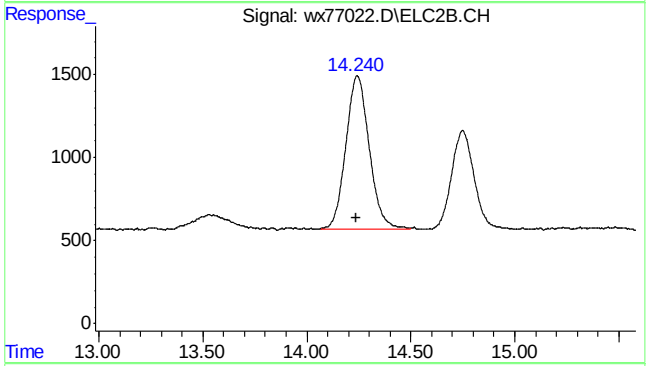
#20 naphthalene

R.T.: 27.800 min
Delta R.T.: 0.000 min
Response: 84812
Conc: 4.22 ppb m



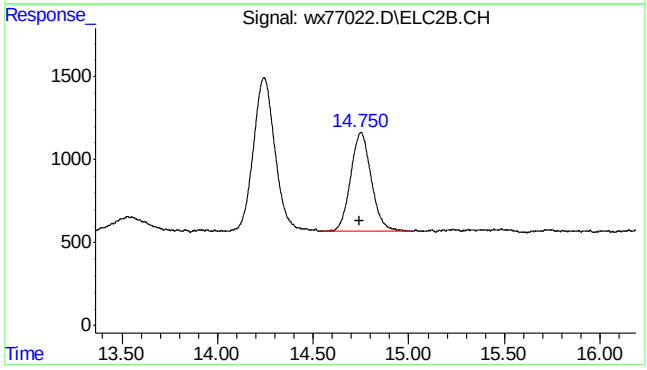
#23 mtbe #2

R.T.: 9.145 min
Delta R.T.: -0.007 min
Response: 23052
Conc: 5.15 ppb m



#24 benzene #2

R.T.: 14.240 min
Delta R.T.: 0.000 min
Response: 72274
Conc: 5.08 ppb m

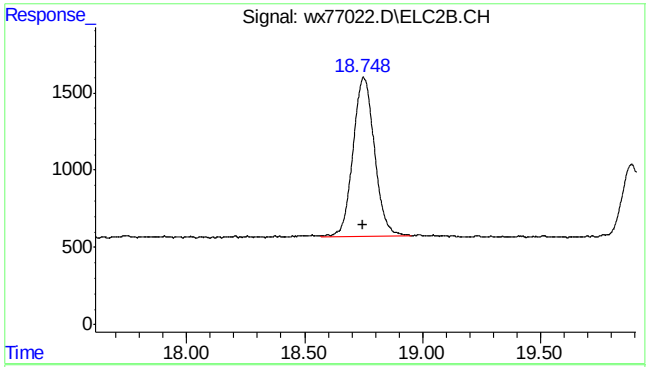


#25 fluorobenzene #2

R.T.: 14.749 min
Delta R.T.: 0.004 min
Response: 45111
Conc: 5.00 ppb

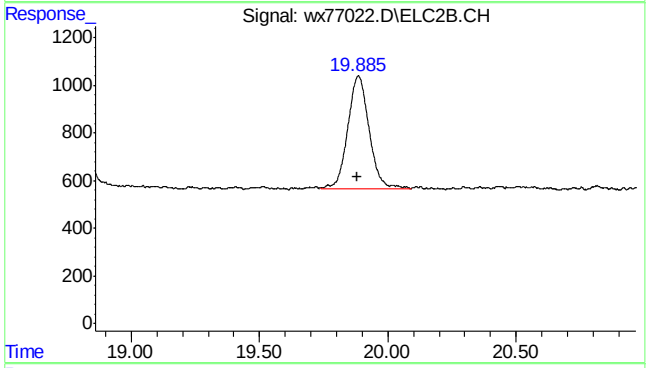
7.5.7

7



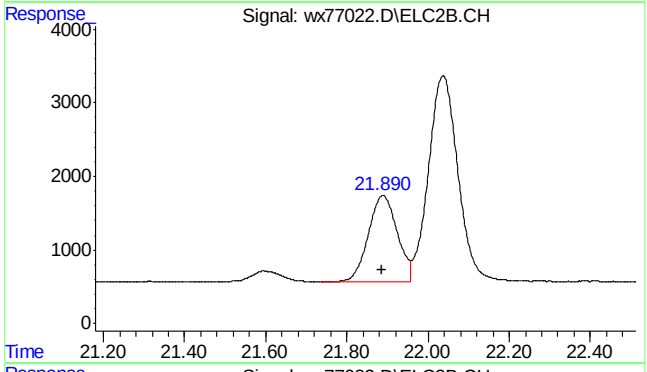
#26 toluene #2

R.T.: 18.750 min
Delta R.T.: 0.004 min
Response: 64987
Conc: 5.04 ppb



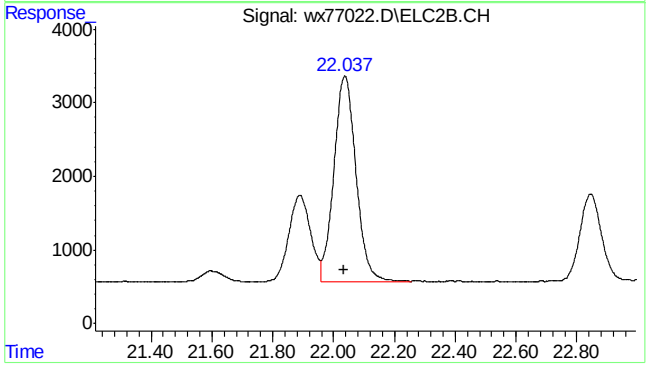
#27 2,3,4-trifluorotoluene #2

R.T.: 19.886 min
Delta R.T.: 0.007 min
Response: 27239
Conc: 5.12 ppb



#28 ethylbenzene #2

R.T.: 21.889 min
Delta R.T.: 0.002 min
Response: 58064
Conc: 5.07 ppb



#29 m,p-xylene #2

R.T.: 22.037 min
Delta R.T.: 0.002 min
Response: 141245
Conc: 10.09 ppb

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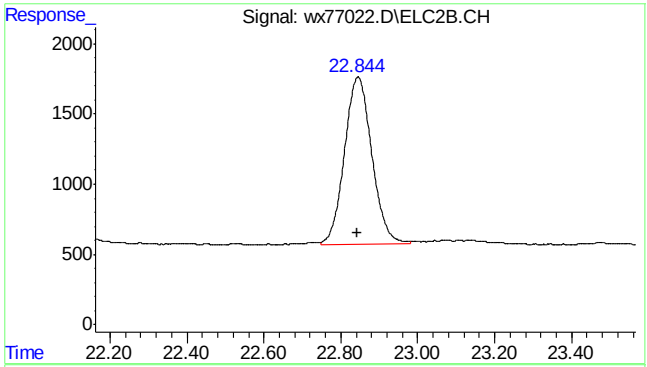
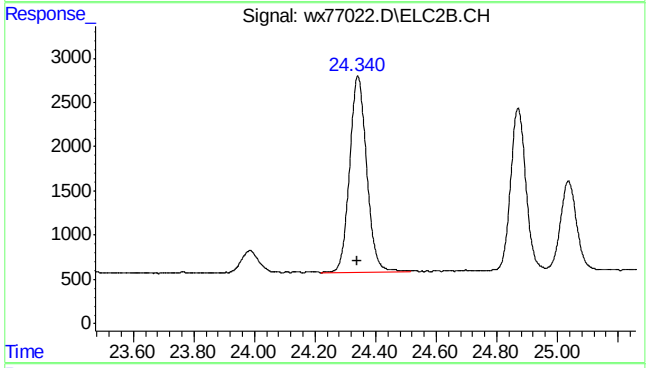


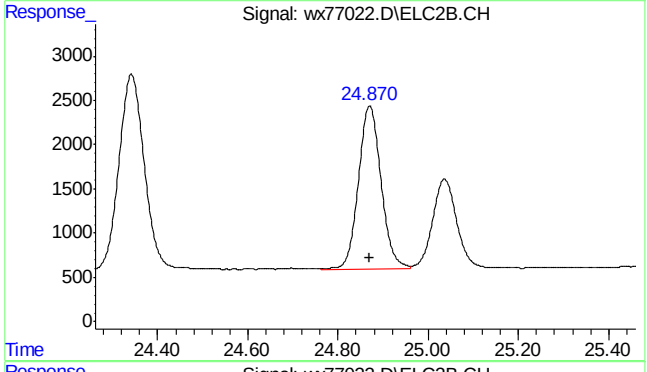
#30 o-xylene #2

R.T.: 22.844 min
Delta R.T.: 0.001 min
Response: 58928
Conc: 5.02 ppb m



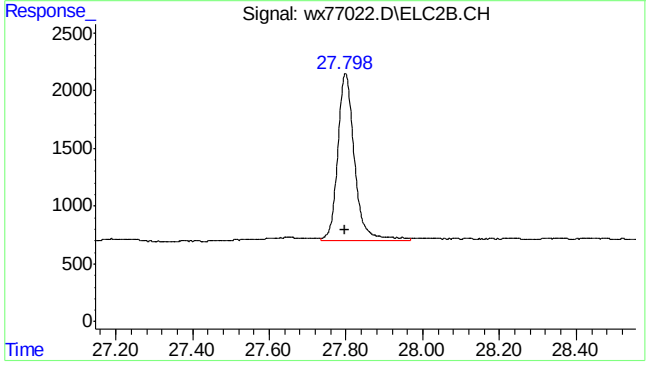
#31 1,3,5-trimethylbenzene #2

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 86843
Conc: 5.03 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 64583
Conc: 5.08 ppb



#33 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 44461
Conc: 4.37 ppb m

7.5.7

7

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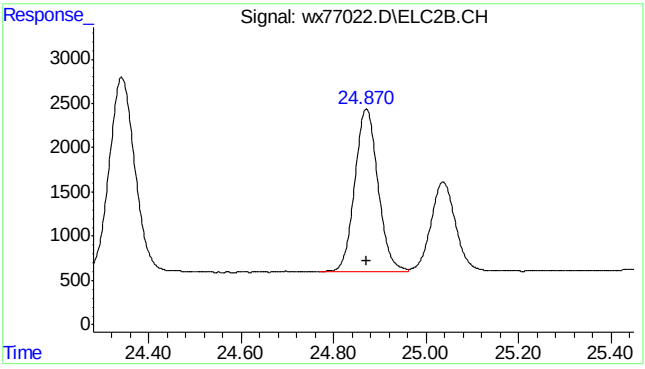


```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:     64428
      Conc:   5.07 ppb m
```

7.5.7

7

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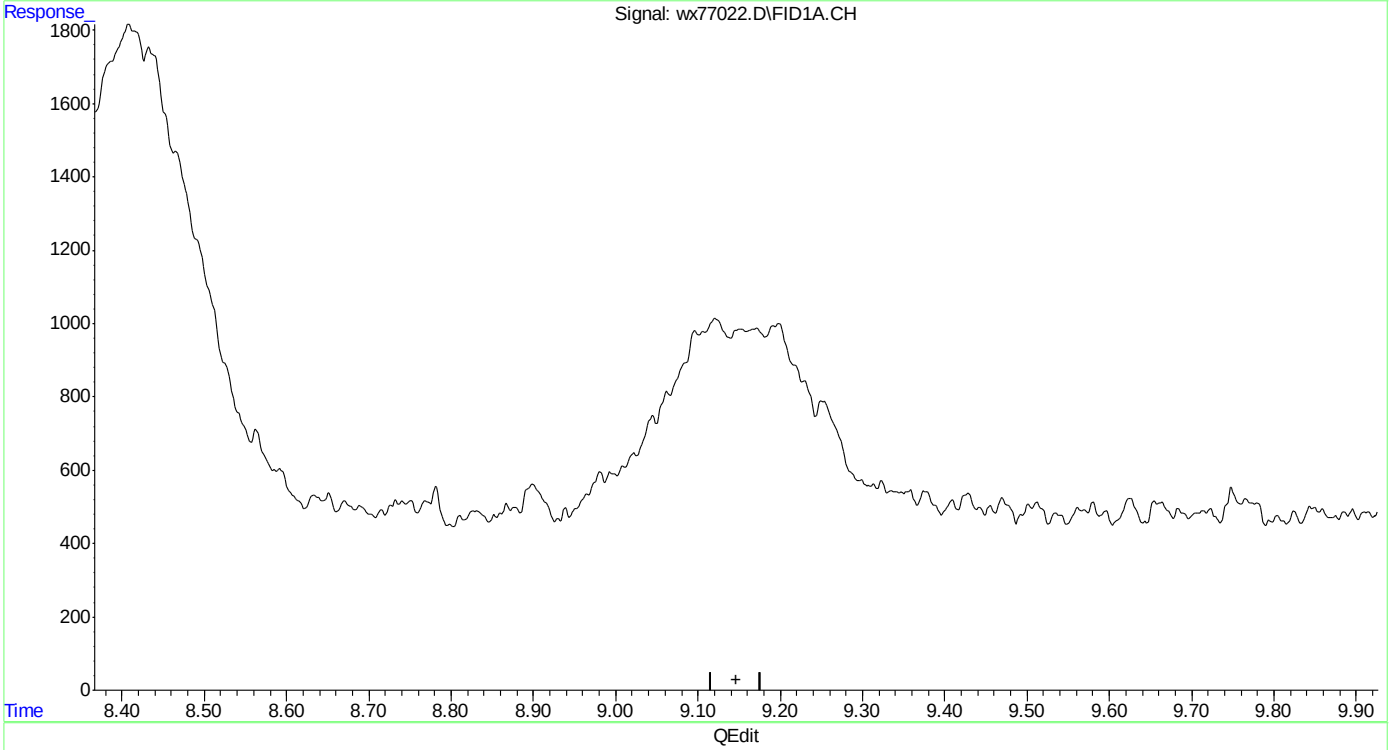
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.147min 0.000 ppb
response 0

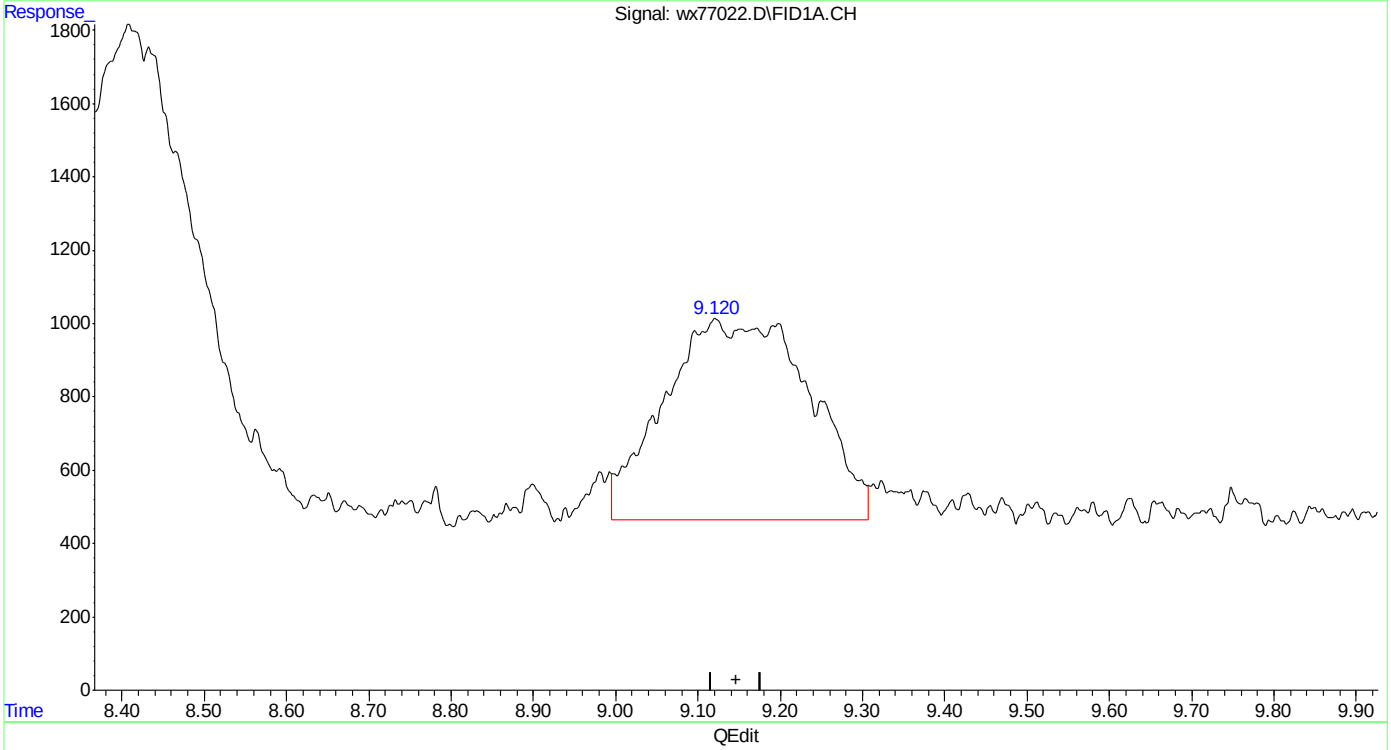
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.120min 5.069 ppb m
response 67435

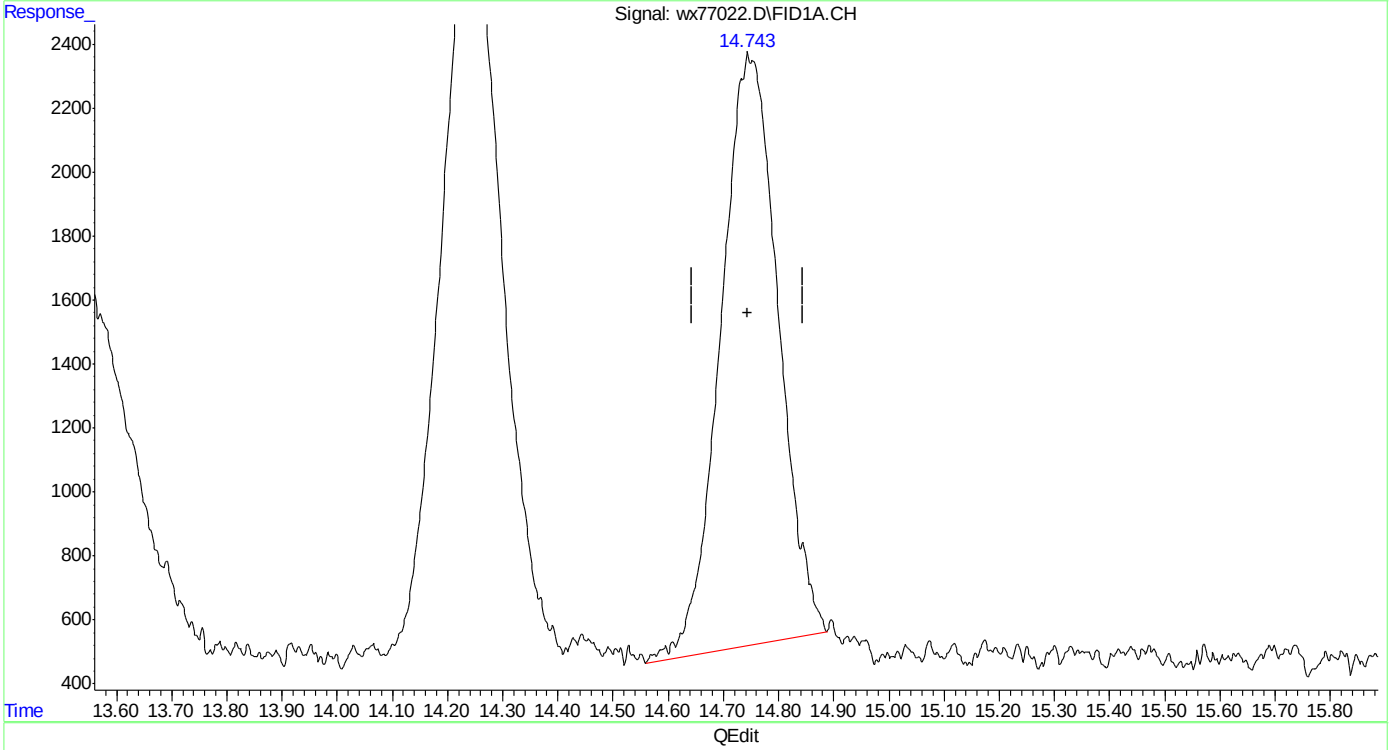
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:50:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.745min 4.774 ppb
response 133838

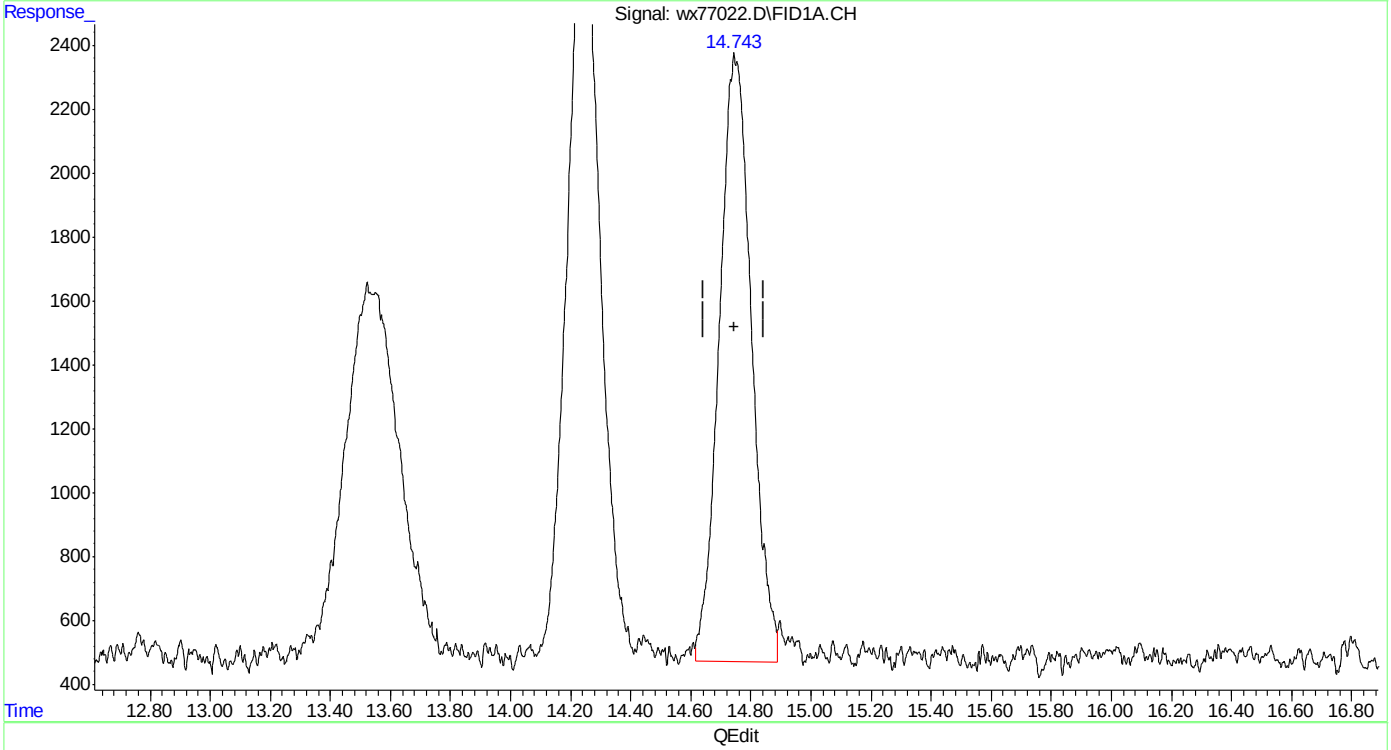
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:50:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.743min 5.046 ppb m
response 141446

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:50:48 2016

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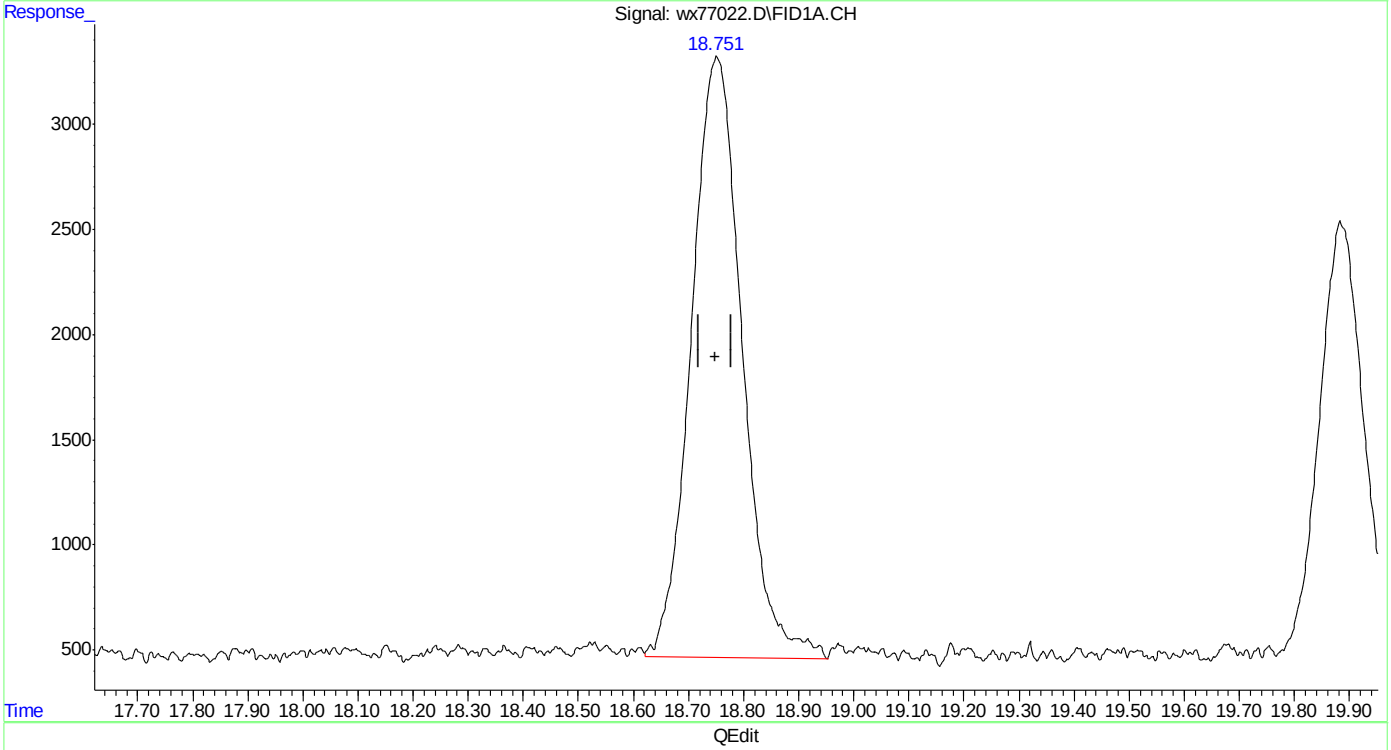
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.752min 5.233 ppb
response 183144

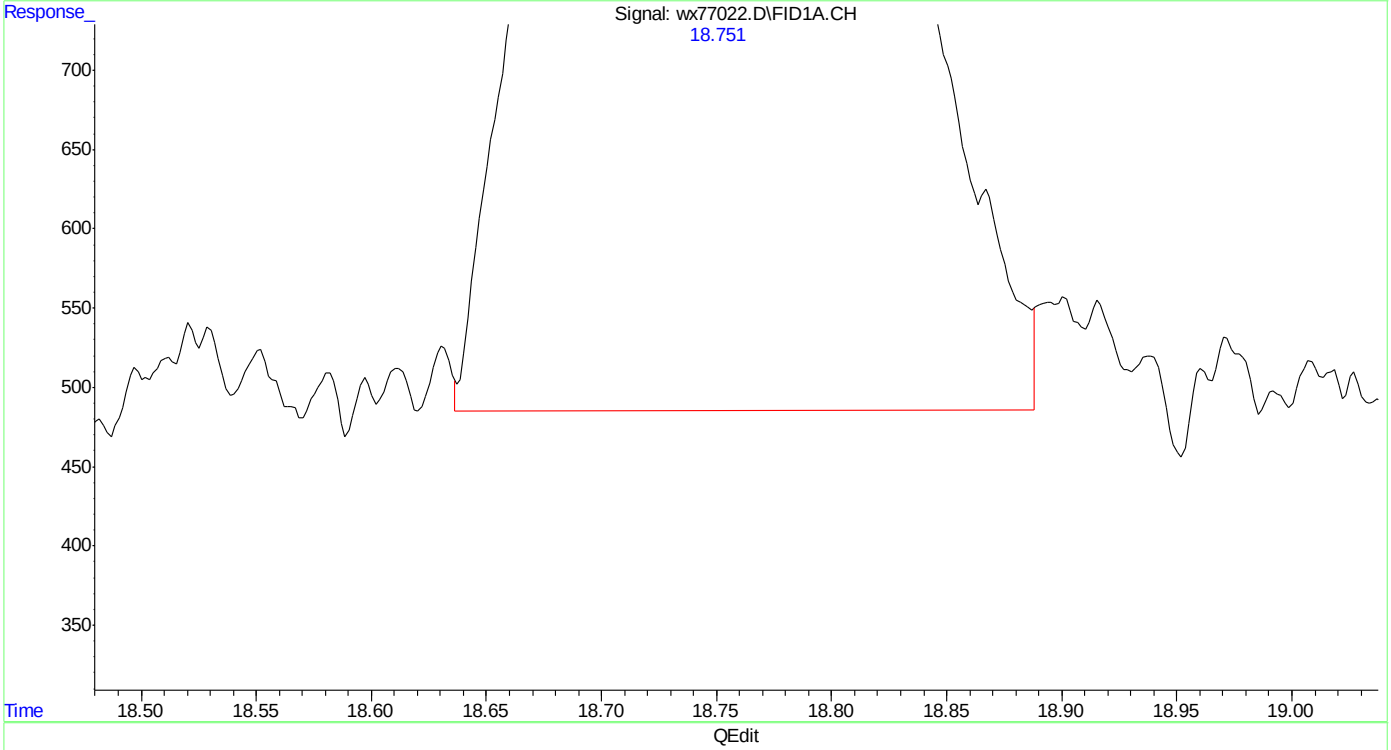
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:50:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.751min 5.050 ppb m
response 176758

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:51:05 2016

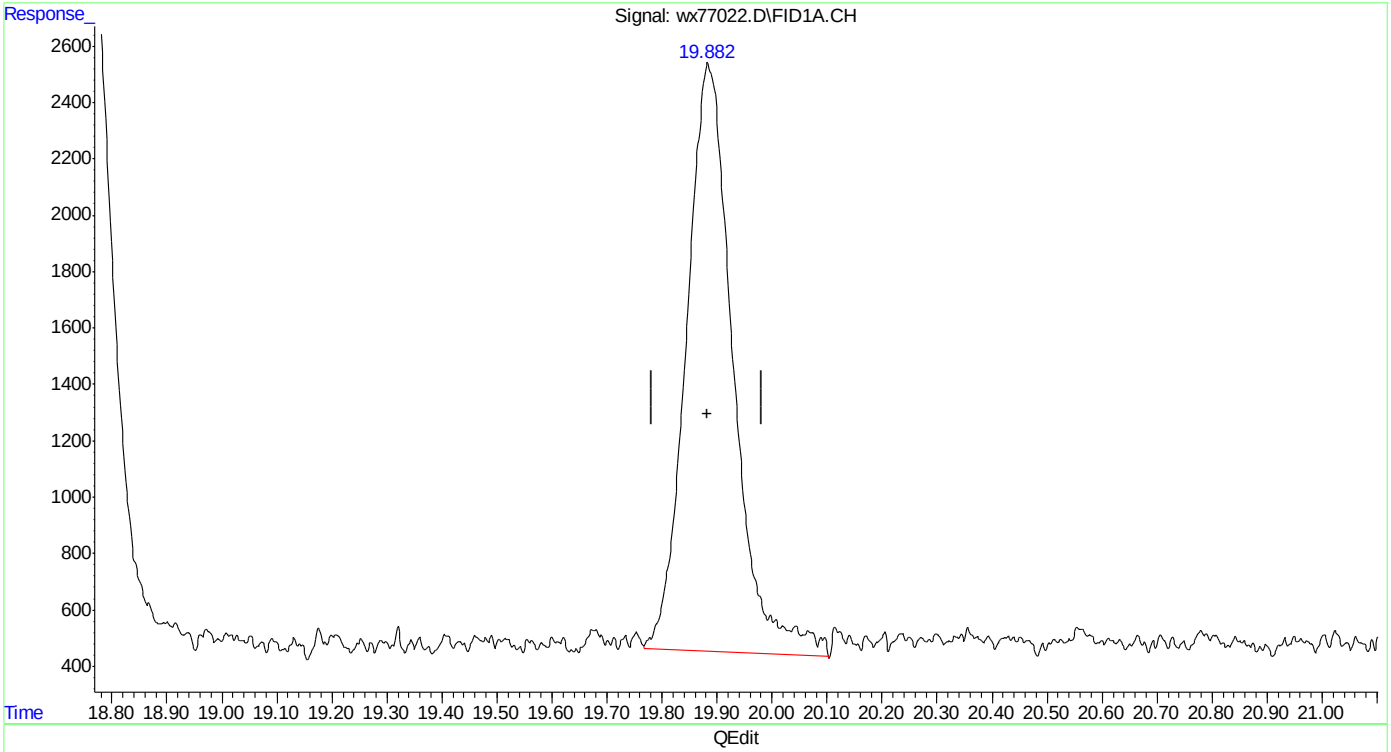
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.883min 5.457 ppb
response 123229

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:51:09 2016

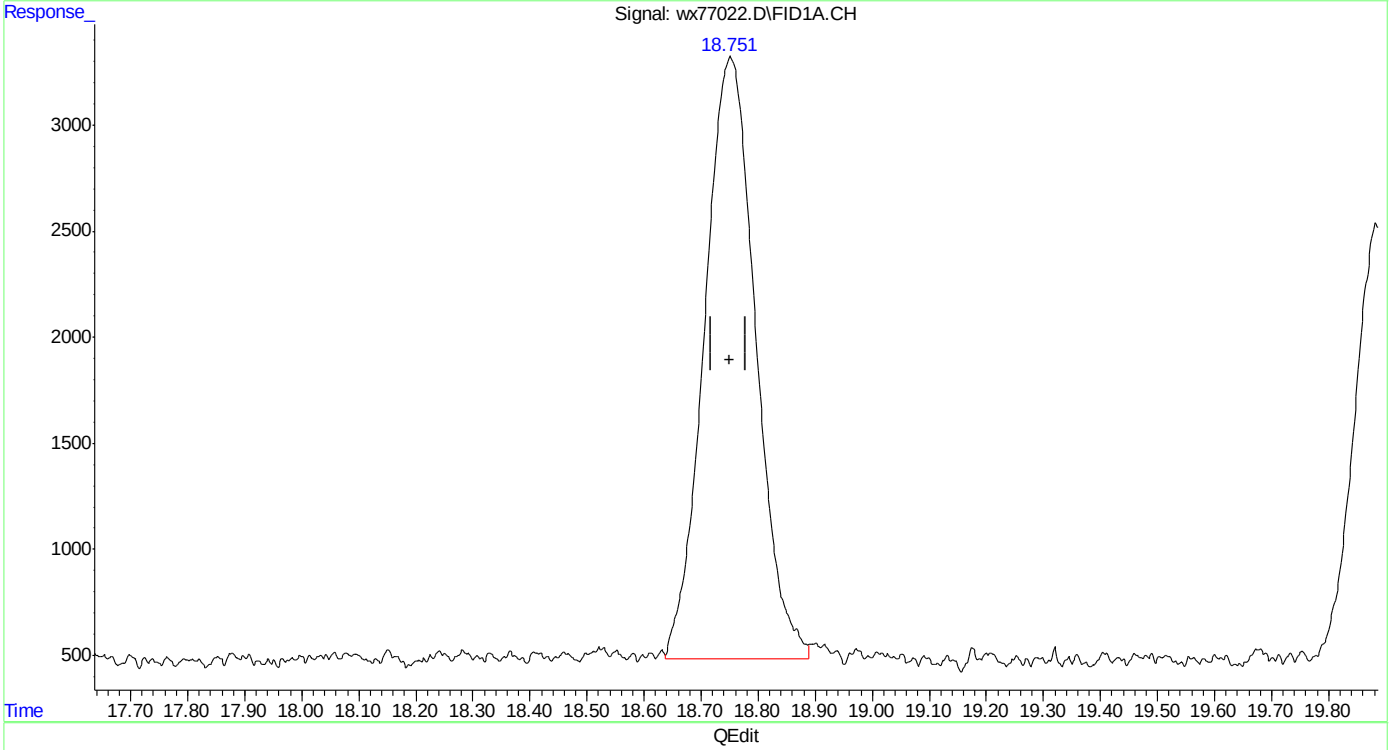
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.751min 5.050 ppb m
response 176758

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:51:23 2016

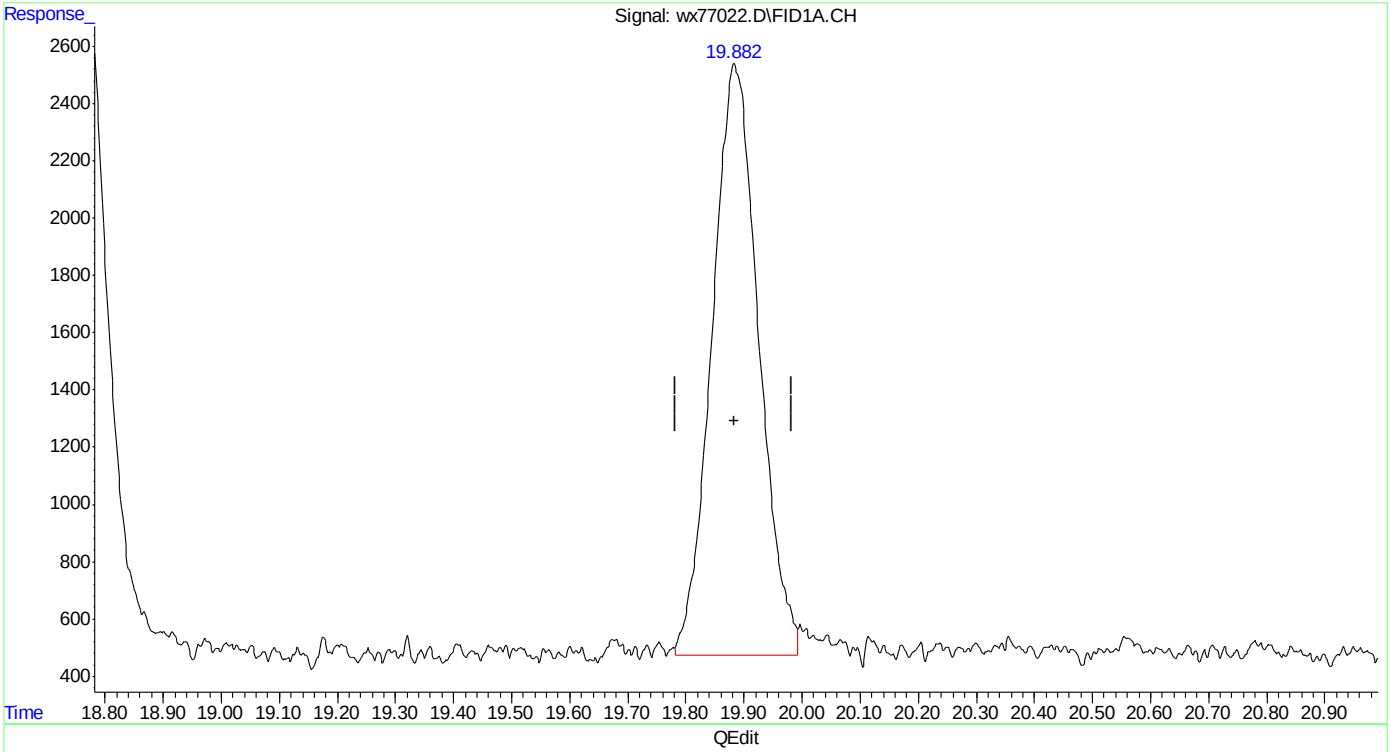
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.882min 5.104 ppb m
response 115265

(+) = Expected Retention Time

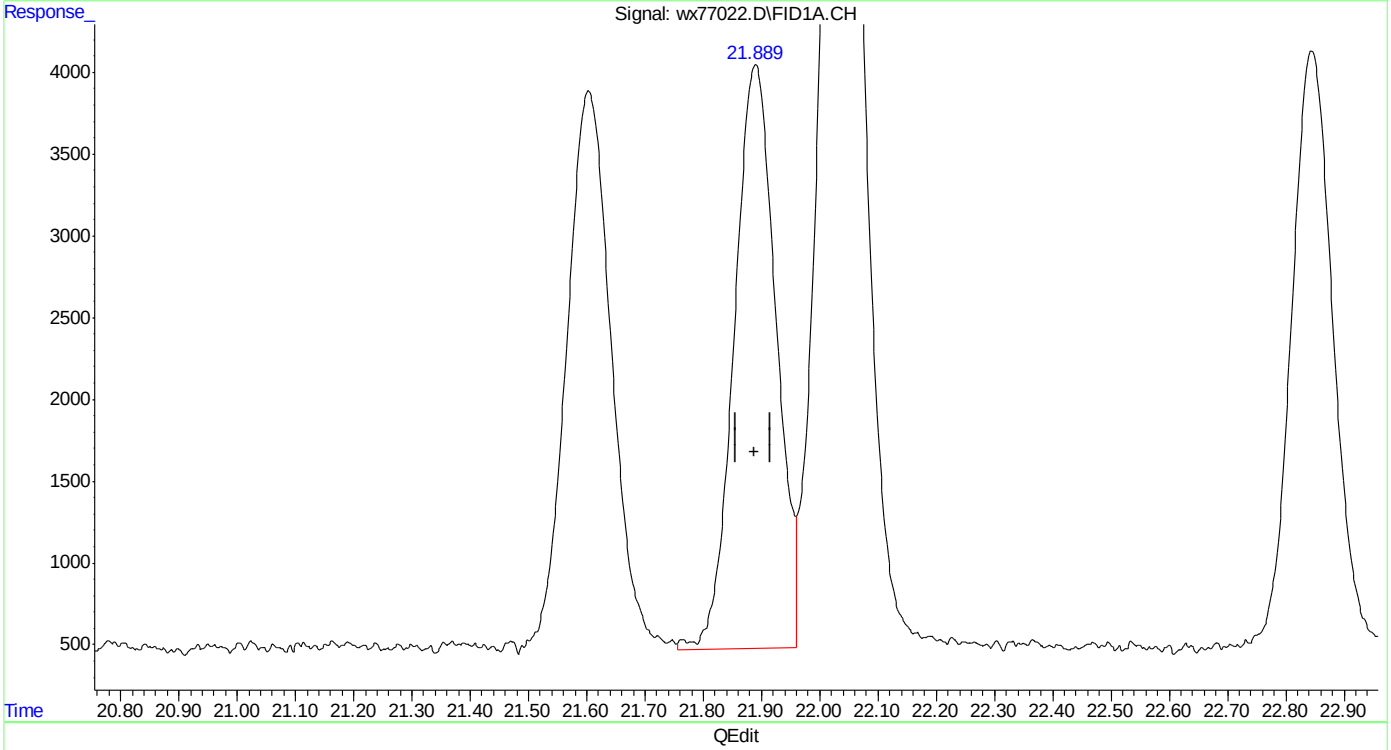
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.890min 5.135 ppb
response 177800

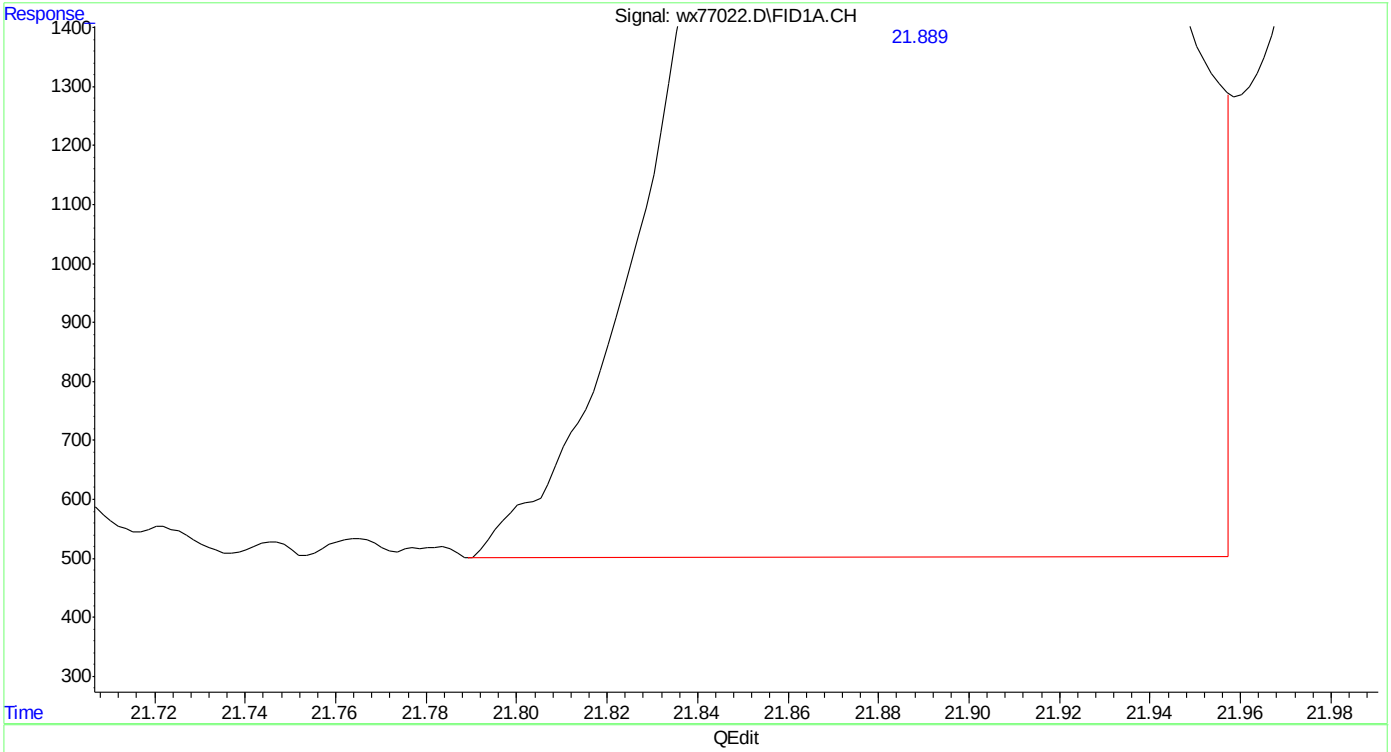
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.889min 5.022 ppb m
response 173902

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:10 2016

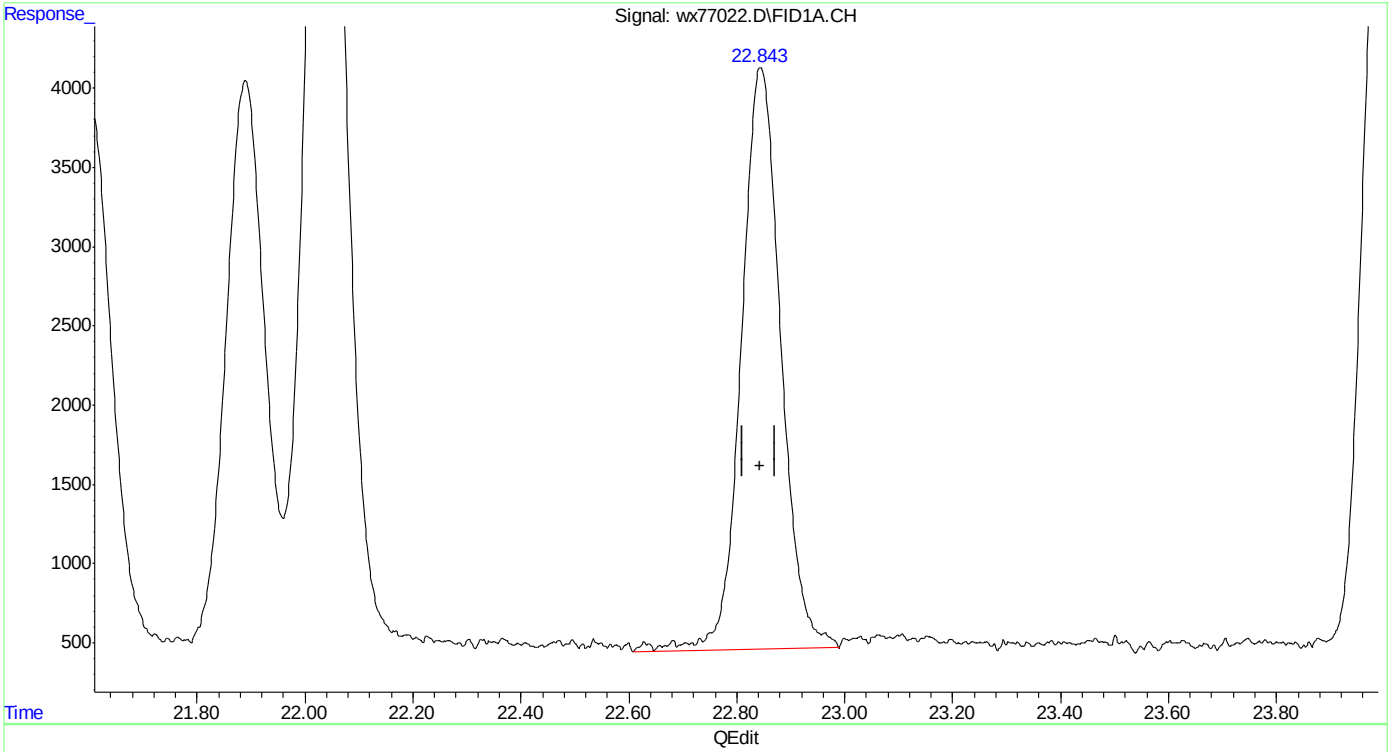
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.845min 5.322 ppb
response 187408

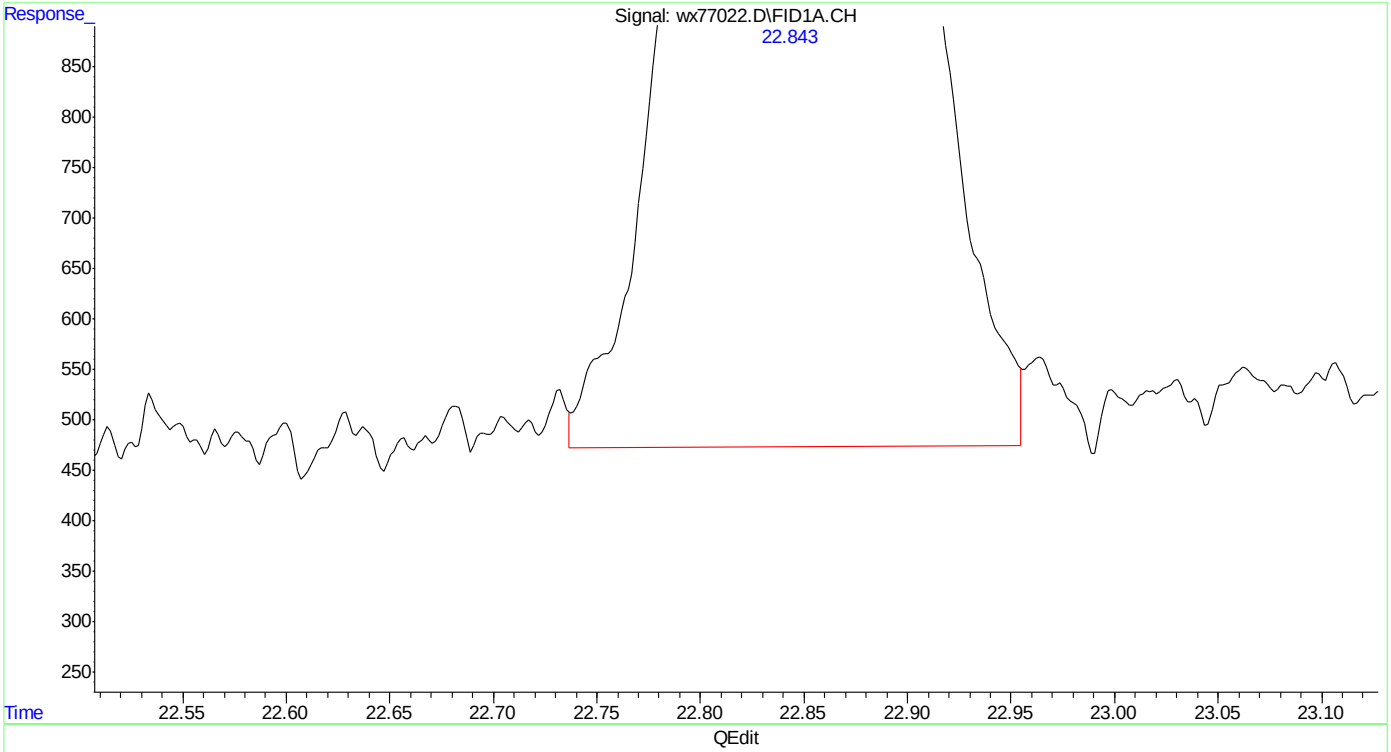
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.843min 5.160 ppb m
response 181696

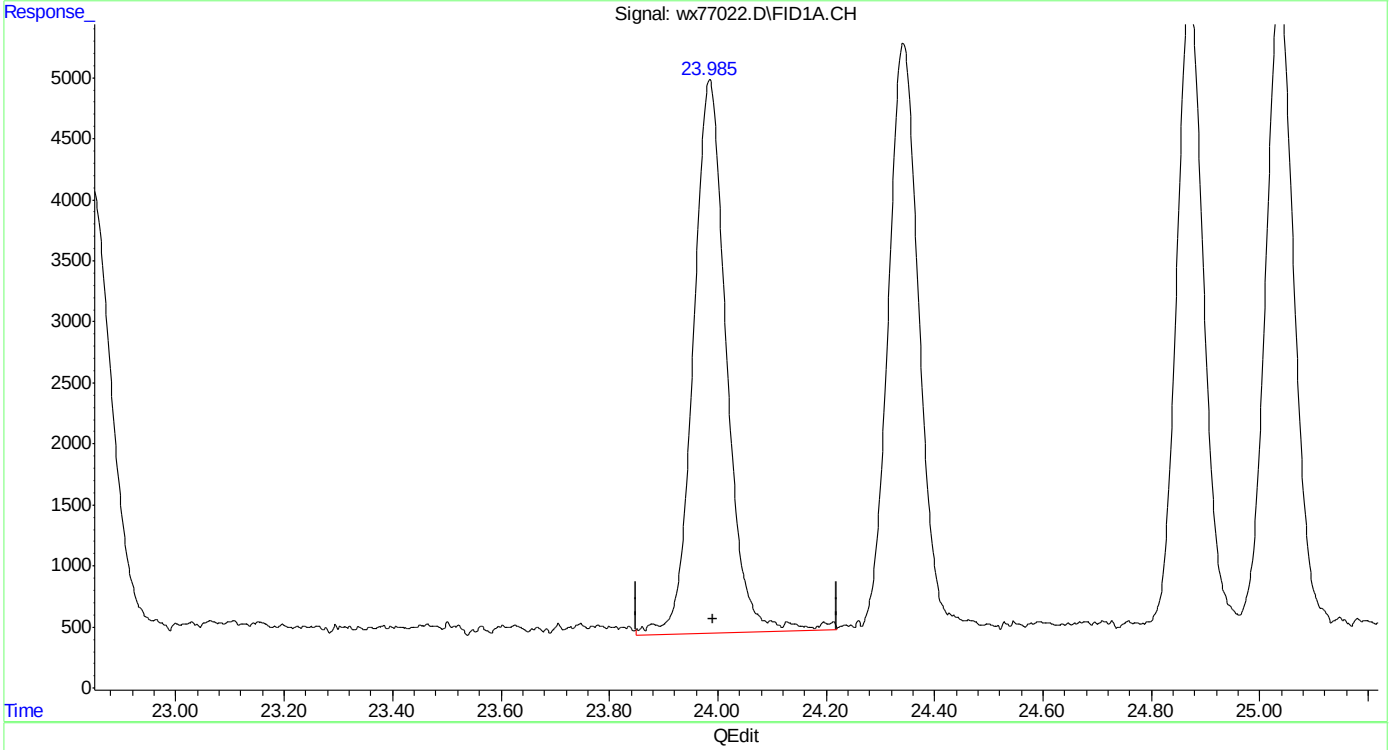
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 5.504 ppb
response 192541

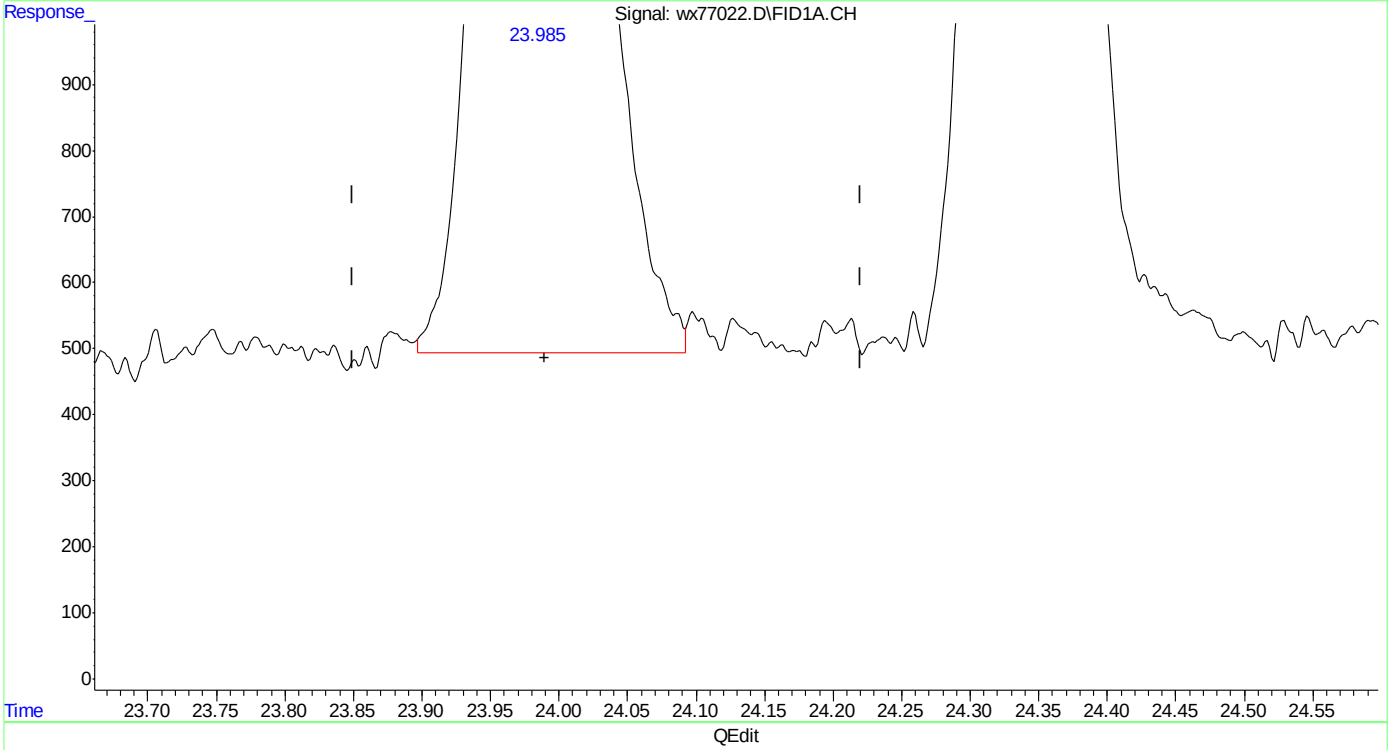
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 5.215 ppb m
response 182417

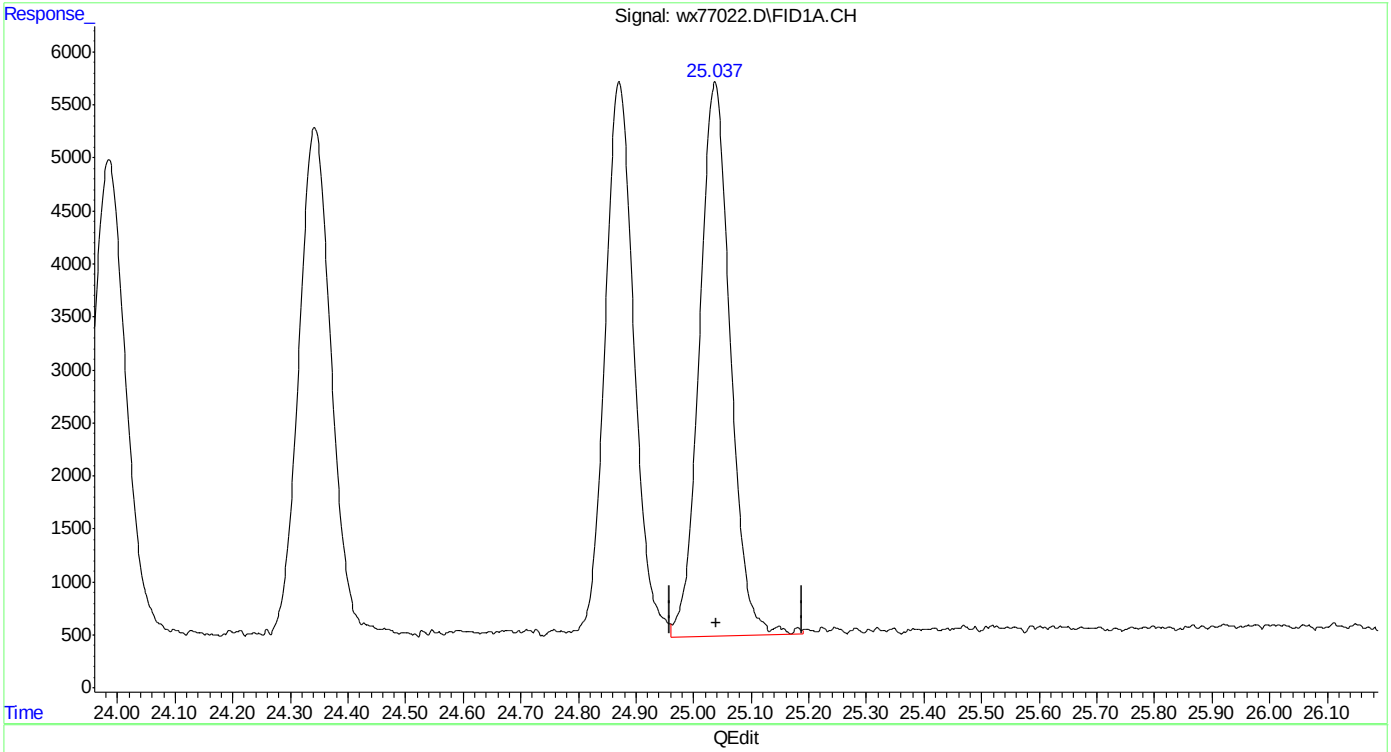
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:38 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)
25.040min 5.366 ppb
response 194543

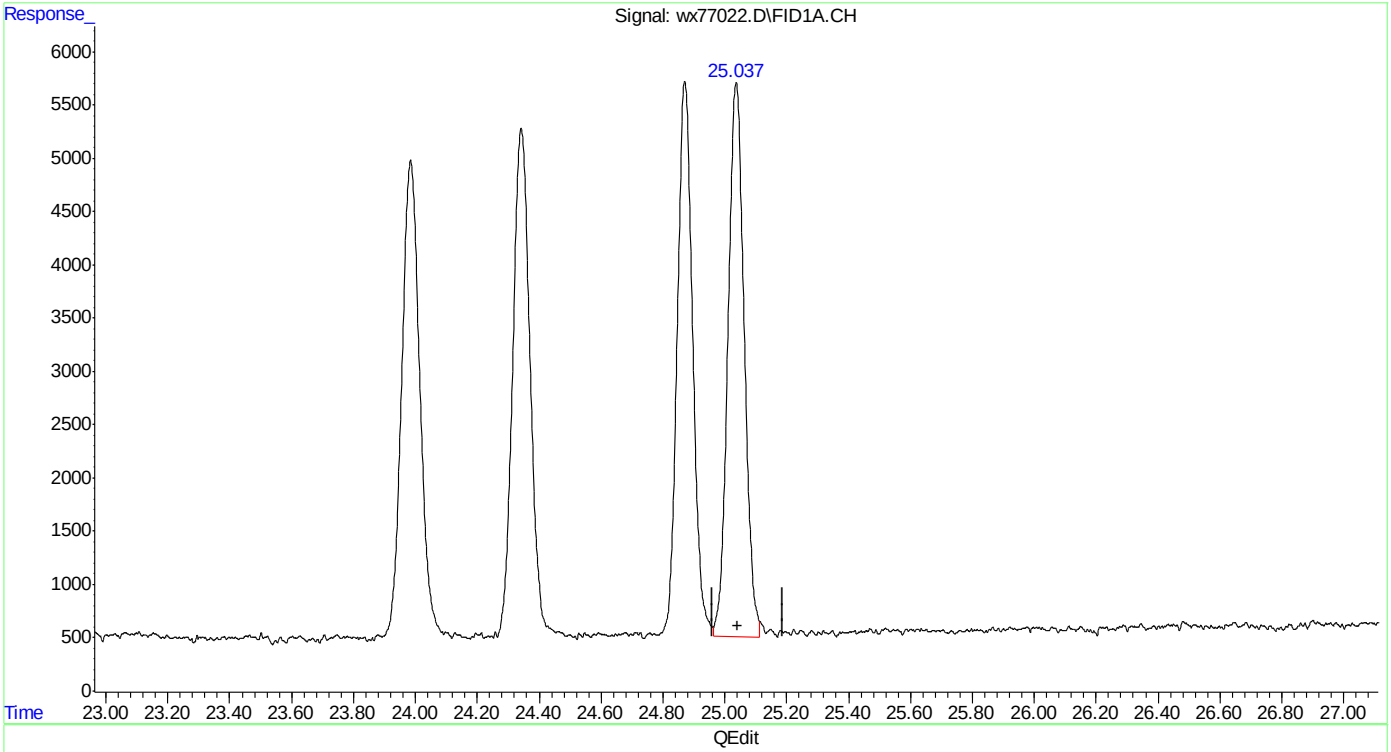
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)
25.040min 5.231 ppb m
response 189639

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(20) naphthalene
27.801min 4.035 ppb
response 81157

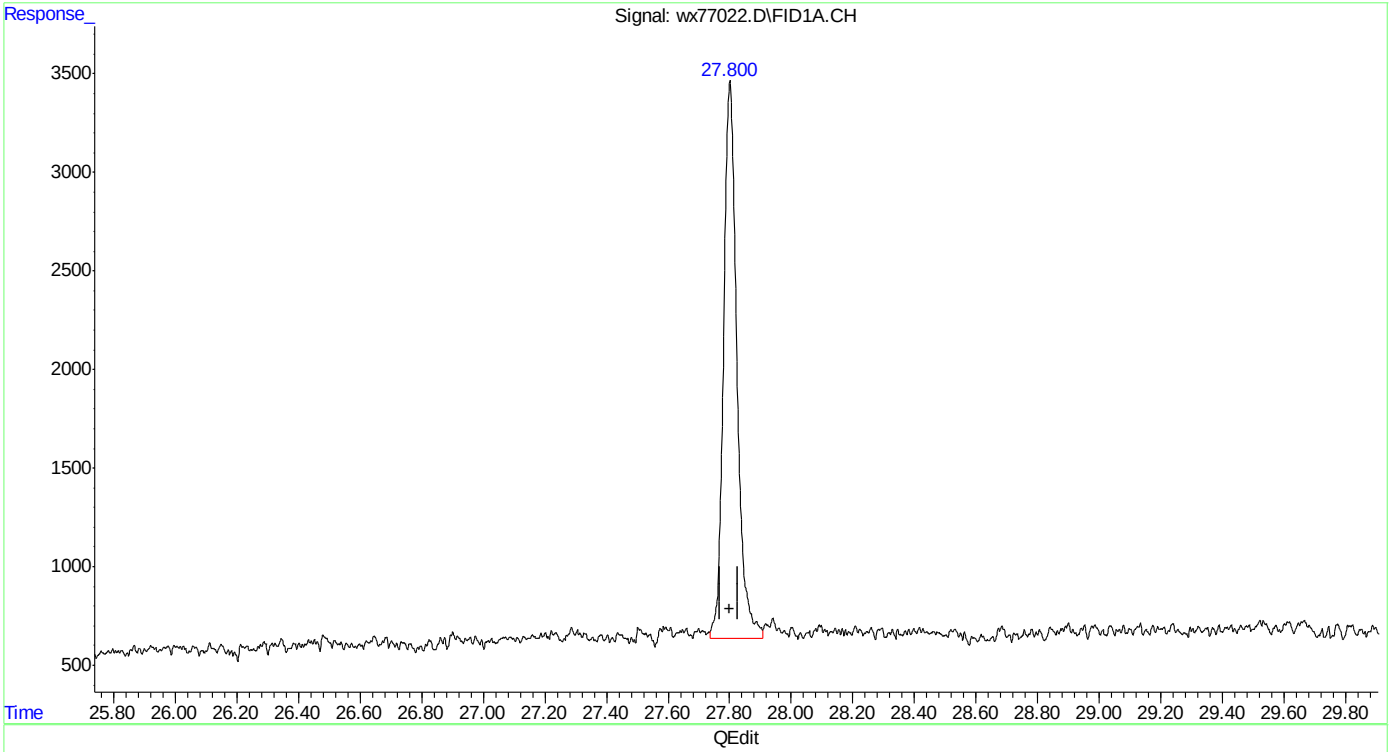
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.800min 4.217 ppb m
response 84812

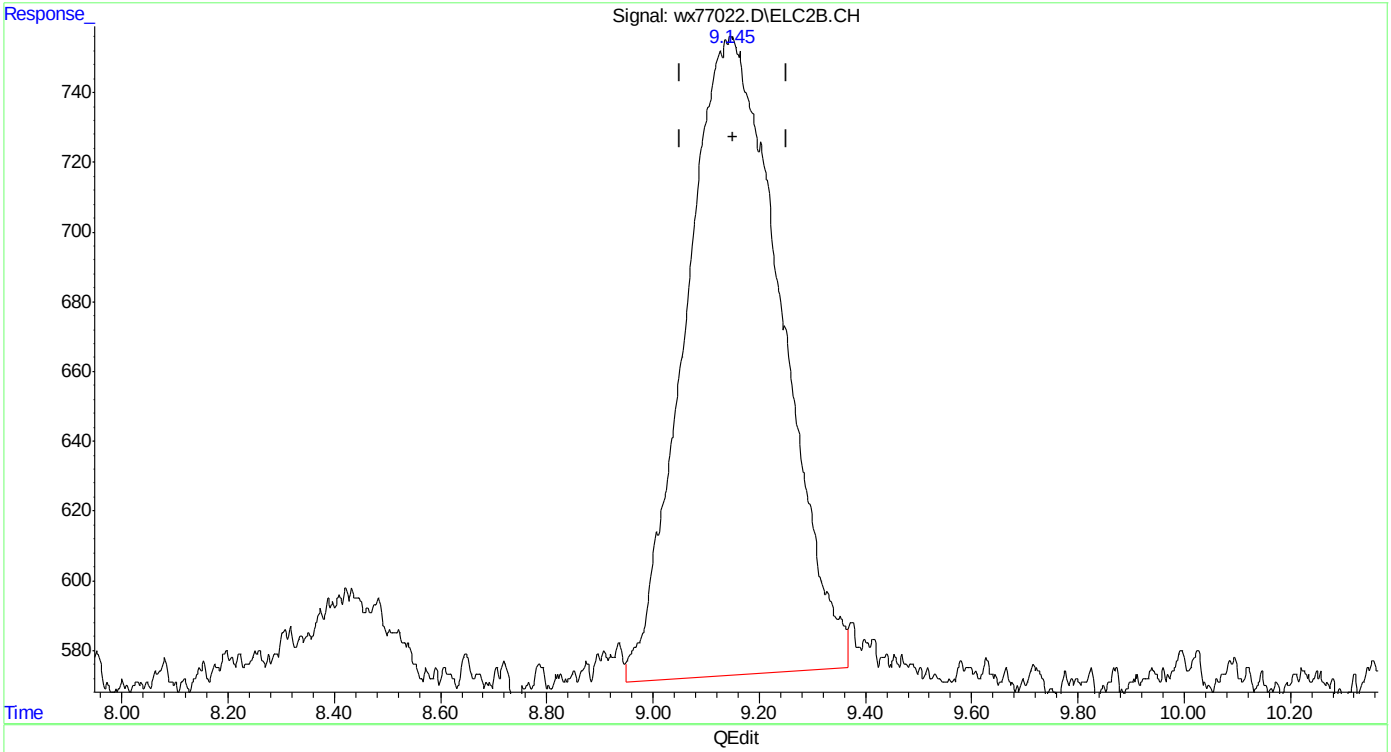
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.148min 5.071 ppb
response 22713

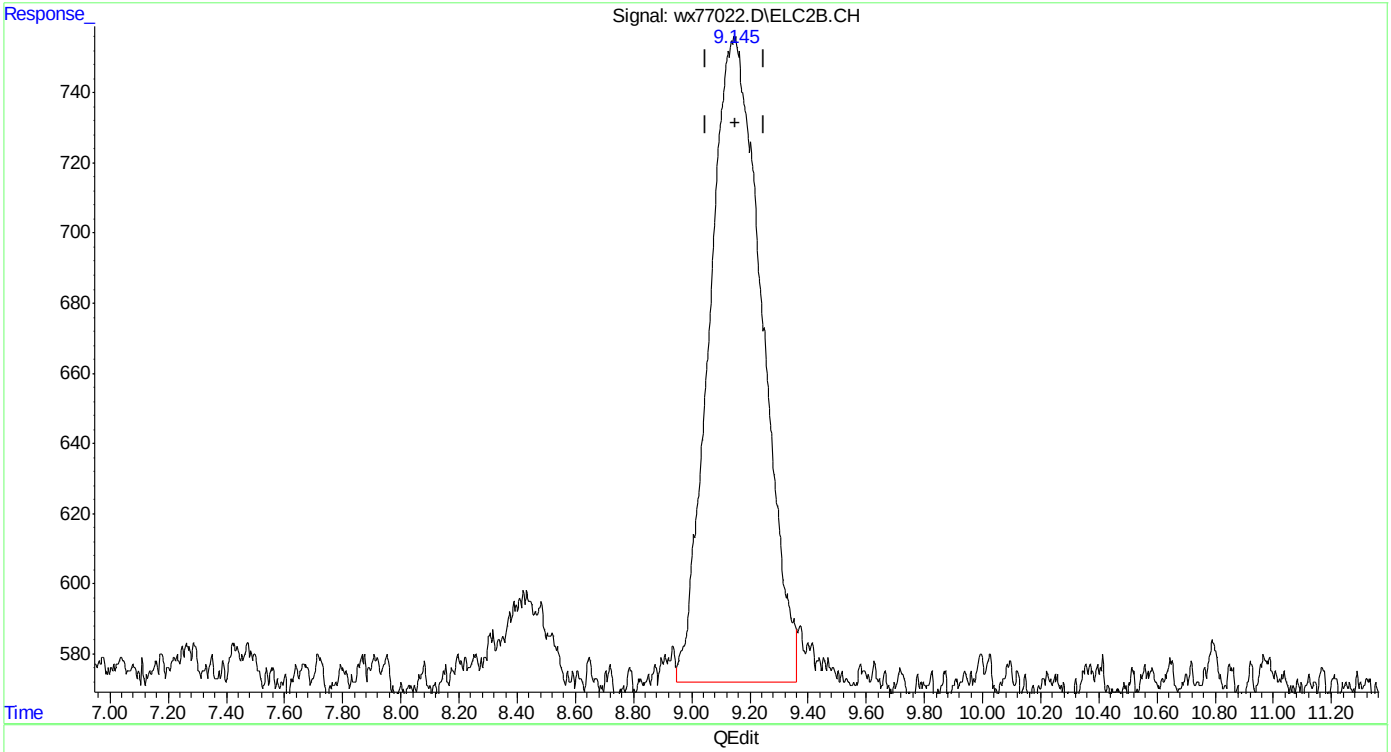
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:53:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.145min 5.146 ppb m
response 23052

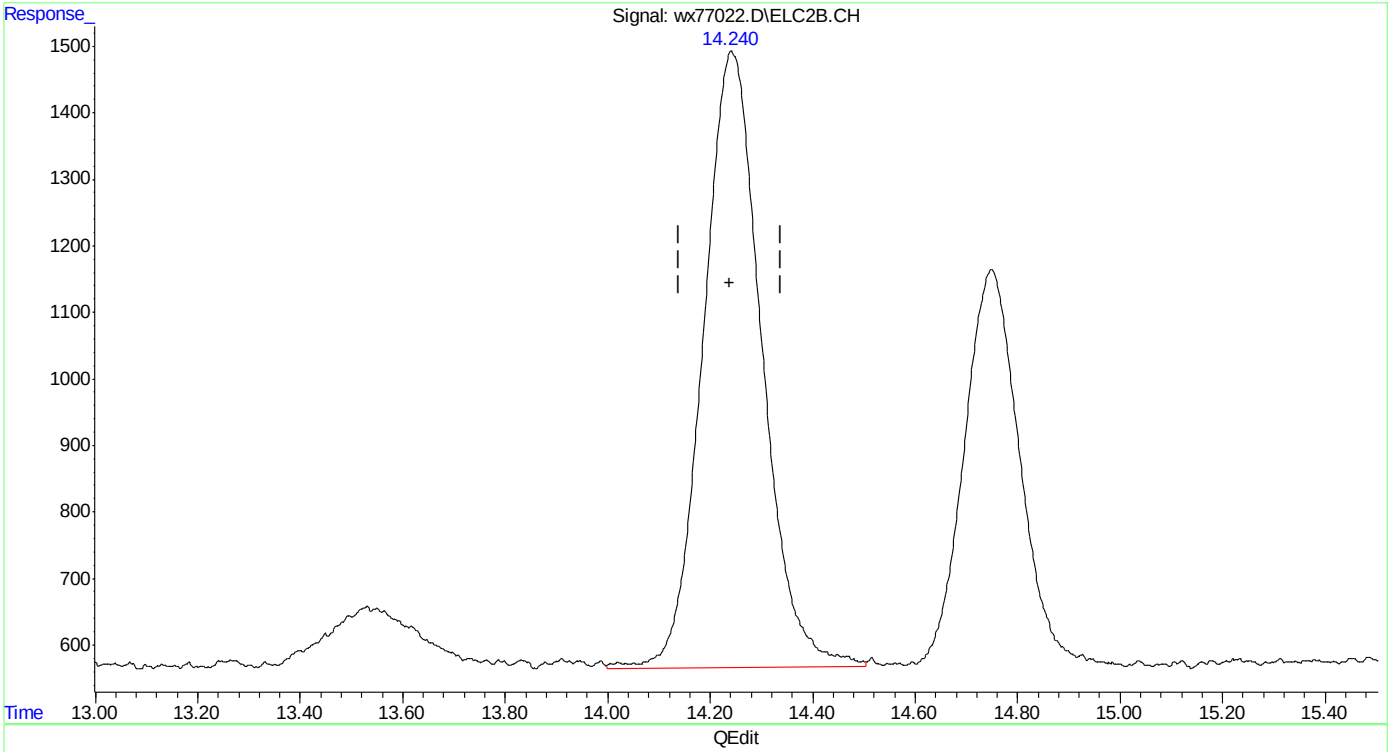
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:53:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) benzene #2
14.241min 5.168 ppb
response 73525

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) benzene #2
14.240min 5.080 ppb m
response 72274

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:53:43 2016

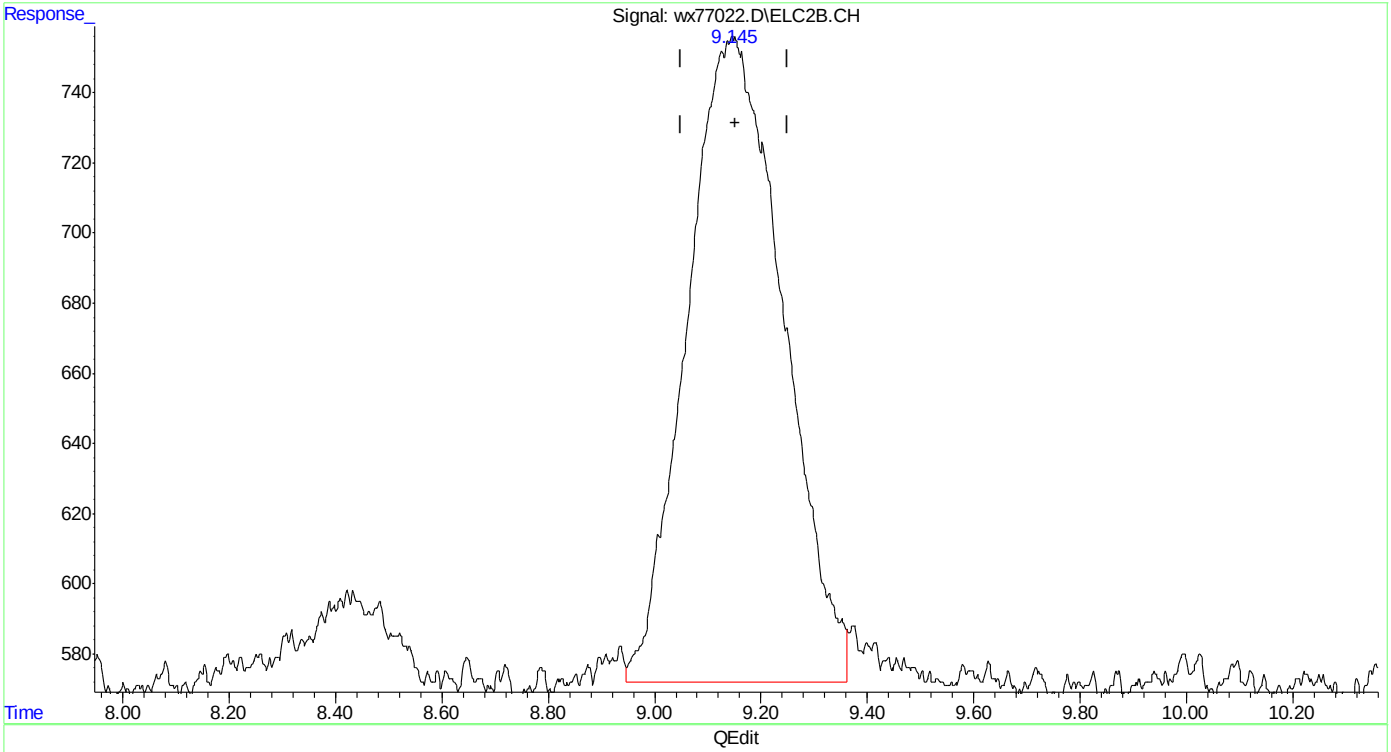
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.145min 5.146 ppb m
response 23052

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:53:47 2016

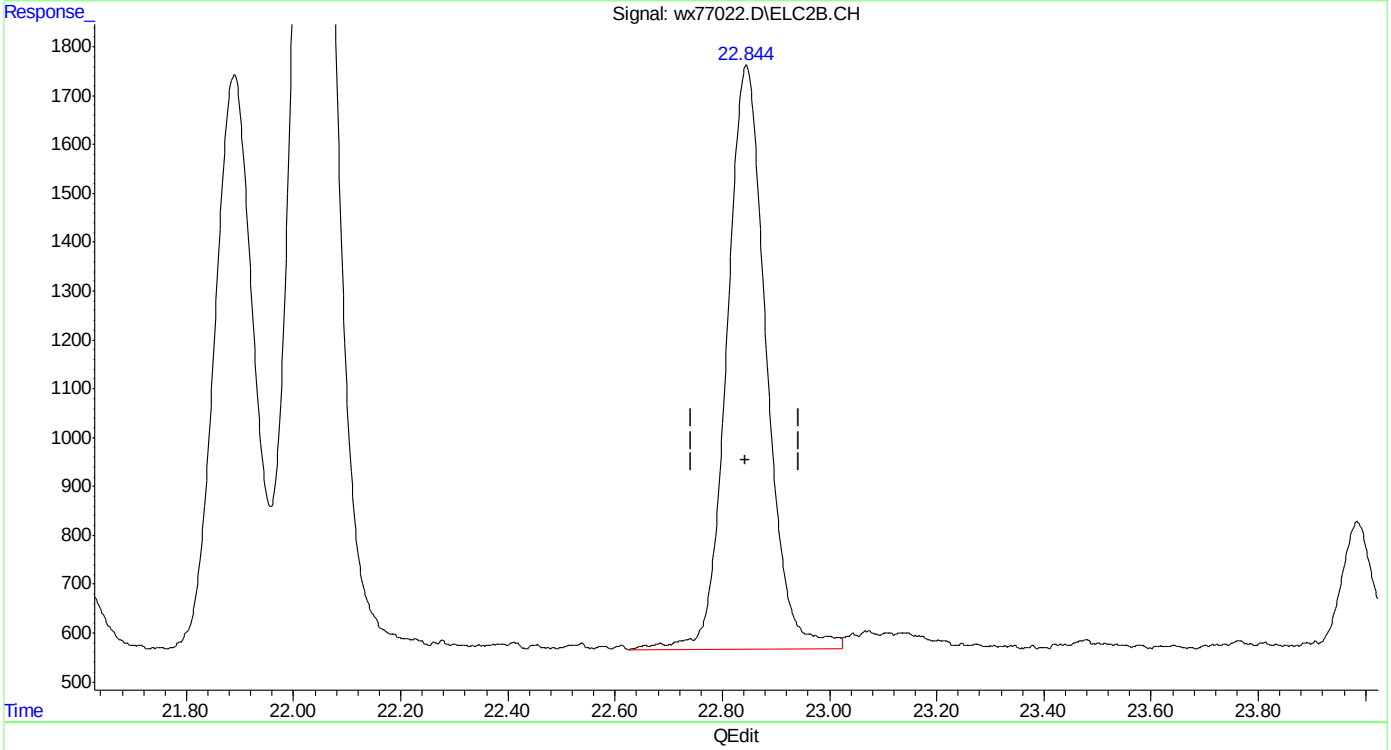
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.845min 5.194 ppb
response 60980

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:54:02 2016

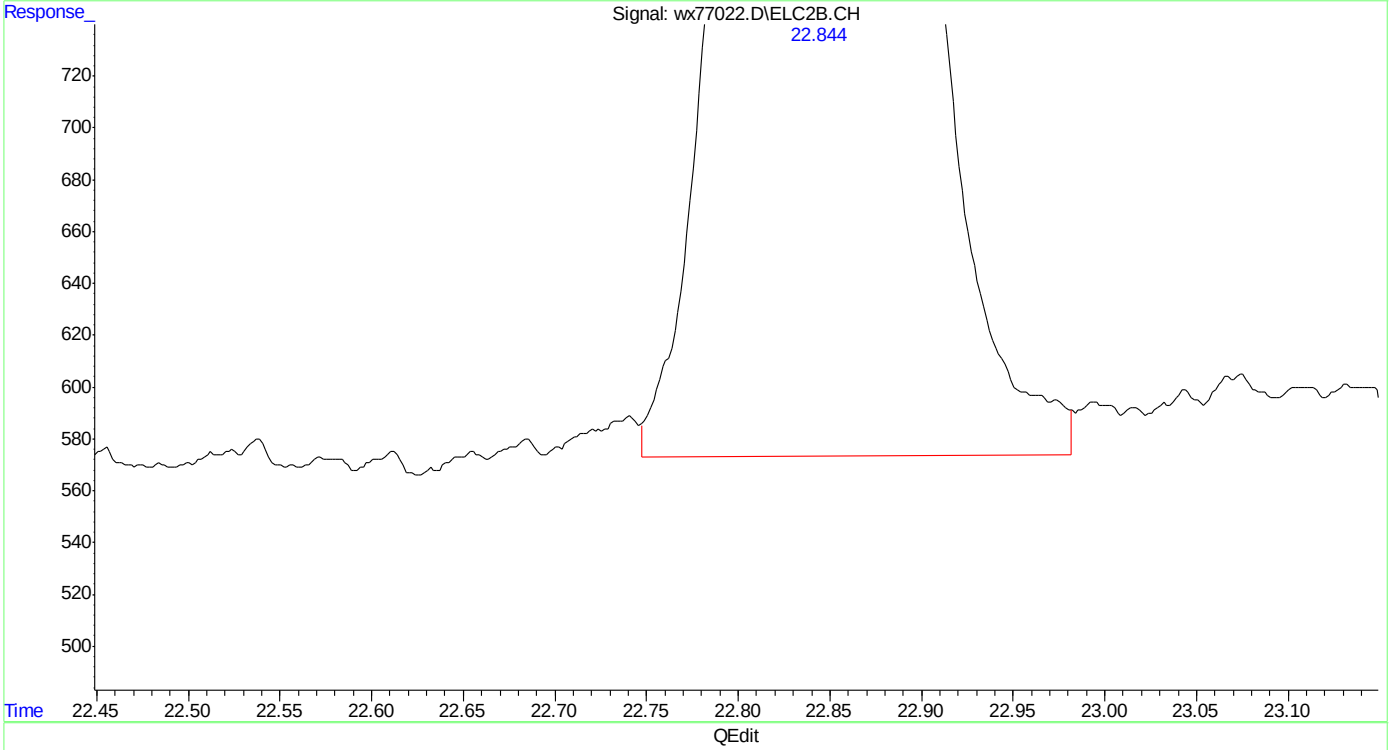
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.844min 5.019 ppb m
response 58928

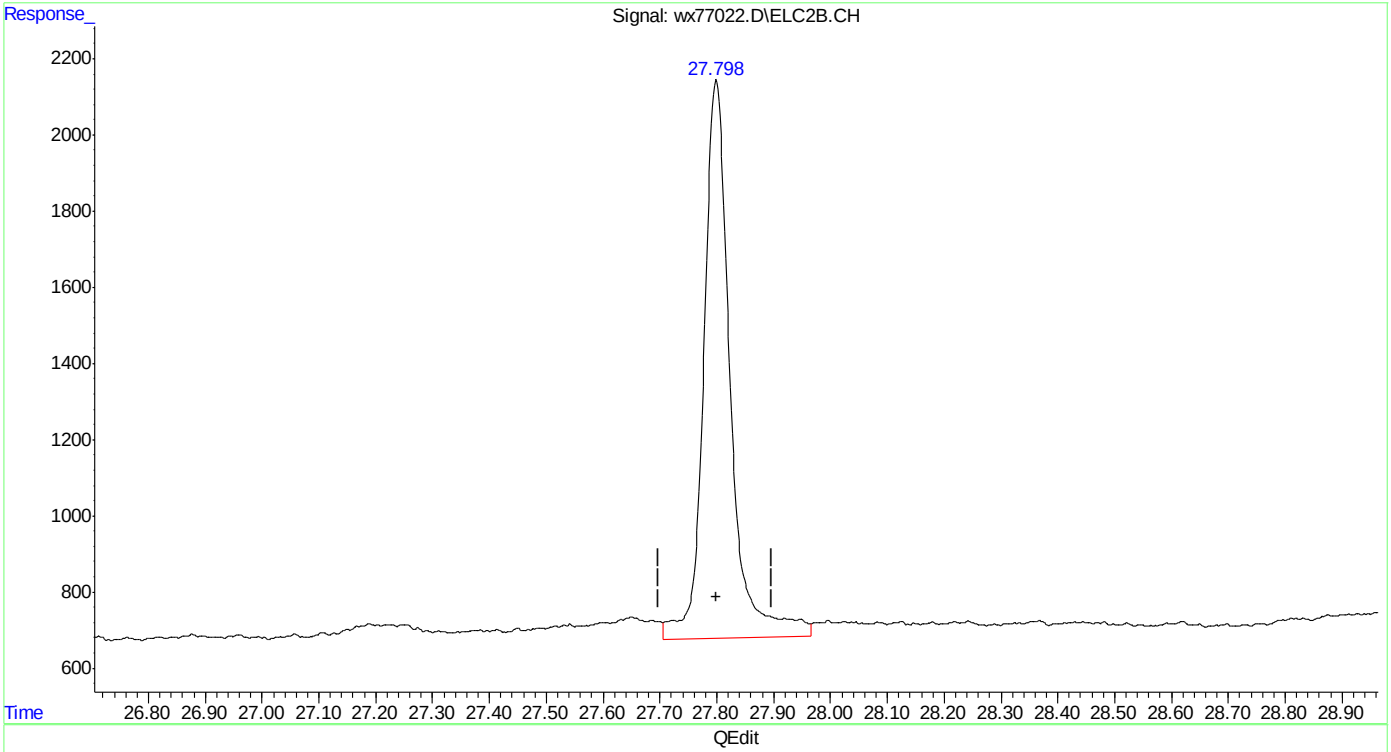
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:54:09 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 4.724 ppb
response 48110

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:54:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(33) naphthalene #2
27.798min 4.365 ppb m
response 44461

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:54:31 2016 Page: 1

SGS ACCUTEST MC46340

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:18 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.742	55966	1.988 ppb	m
Spiked Amount 50.000		Recovery =	3.98%	
9) s 2,3,4-trifluorotoluene	19.880	49232	2.178 ppb	m
Spiked Amount 50.000		Recovery =	4.36%	
25) s fluorobenzene #2	14.748	18258	2.023 ppb	
Spiked Amount 50.000		Recovery =	4.05%	
27) s 2,3,4-trifluorotoluen...	19.885	11698	2.197 ppb	m
Spiked Amount 50.000		Recovery =	4.39%	
Target Compounds				
1) h rt5.5-7	6.100	44675	1.993 ppb	
2) h rt7/10	8.370	57323	1.973 ppb	
3) mtbe	9.165f	26685	2.027 ppb	m
4) h rt10/13	13.510	57225	2.182 ppb	
5) benzene	14.247	70953	1.997 ppb	m
8) toluene	18.749	70423	2.018 ppb	
11) h rt20/25	21.600	93236	2.771 ppb	
13) ethylbenzene	21.887	70038	2.033 ppb	m
14) m,p-xylene	22.037	143939	4.047 ppb	
15) o-xylene	22.843	72250	2.048 ppb	
16) h Decane	23.990	97419	2.838 ppb	
17) t 1,3,5-trimethylbenzene	24.341	77869	2.103 ppb	
18) 1,2,4-trimethylbenzene	24.871	75016	2.117 ppb	
19) h Butylcyclohexane	25.040	101787	2.843 ppb	
20) naphthalene	27.798	27696	1.414 ppb	m
23) mtbe #2	9.141	9552	2.141 ppb	m
24) benzene #2	14.240	29057	2.041 ppb	
26) toluene #2	18.746	26841	2.082 ppb	m
28) ethylbenzene #2	21.886	23795	2.078 ppb	
29) m,p-xylene #2	22.034	58894	4.225 ppb	
30) o-xylene #2	22.842	23056	1.970 ppb	
31) t 1,3,5-trimethylbenzen...	24.340	35838	2.085 ppb	m
32) 1,2,4-trimethylbenzen...	24.868	26438	2.080 ppb	m
33) naphthalene #2	27.797	15632	1.569 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	26461	2.084 ppb	

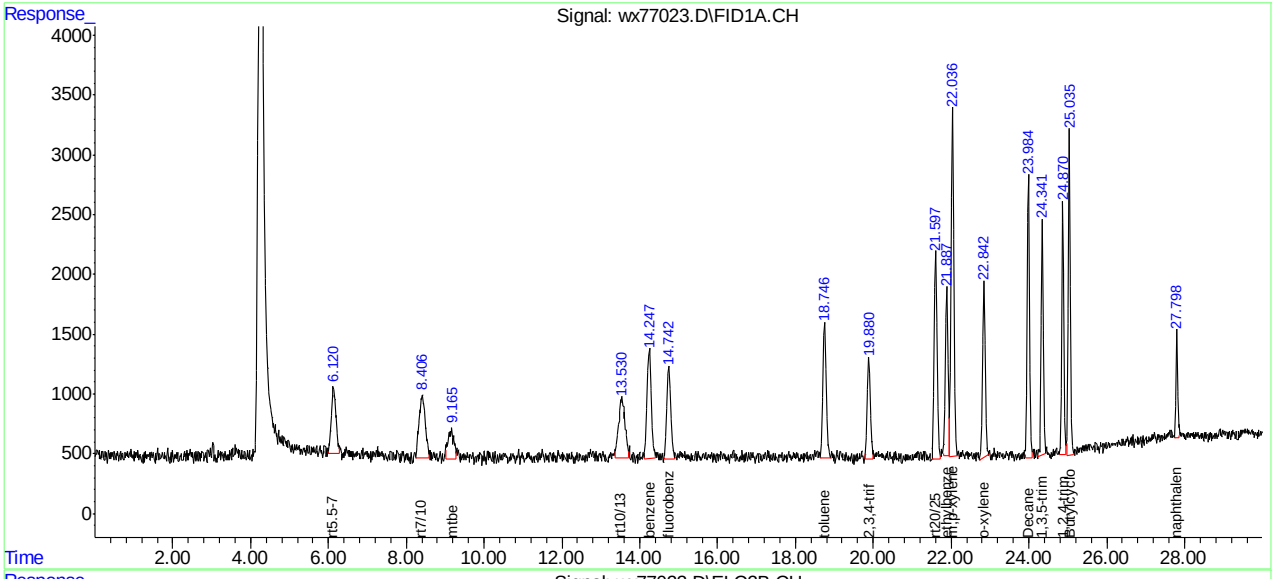
(f)=RT Delta > 1/2 Window (m)=manual int.

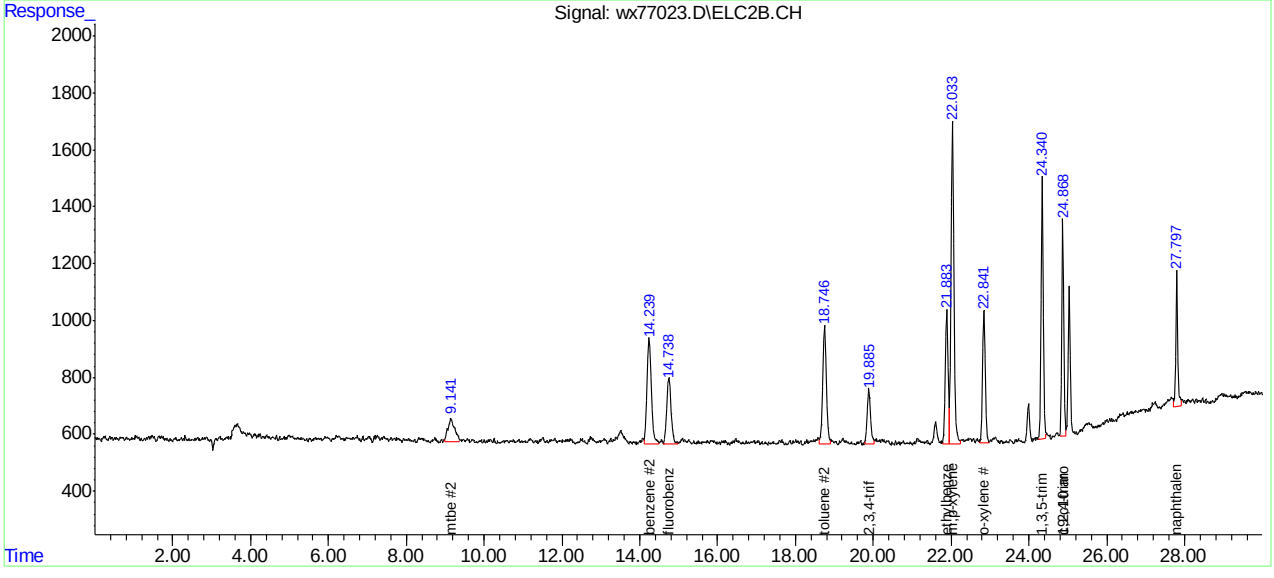
Quantitation Report (QT Reviewed)

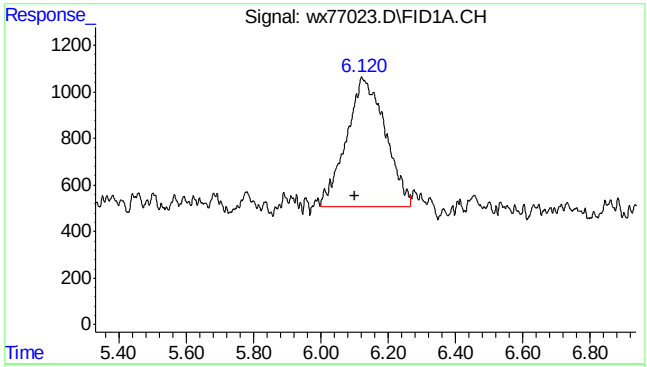
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:18 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

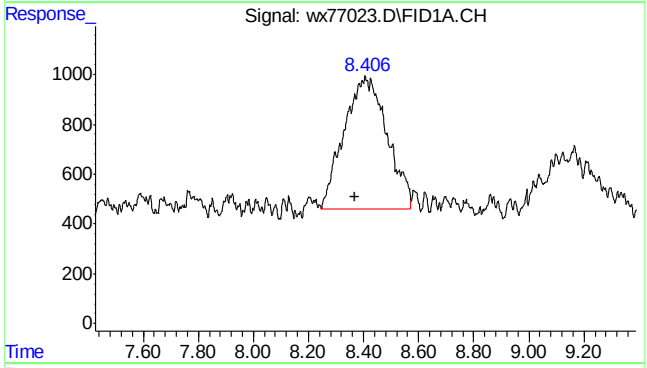






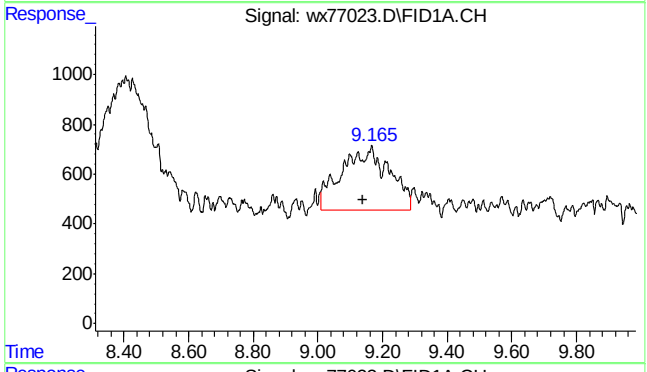
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 44675
Conc: 1.99 ppb m



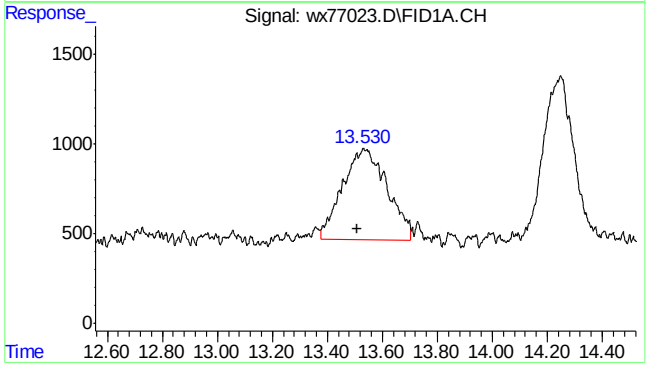
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 57323
Conc: 1.97 ppb m



#3 mtbe

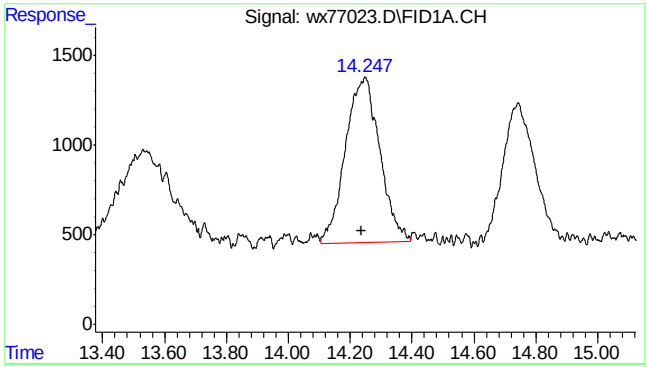
R.T.: 9.165 min
Delta R.T.: 0.027 min
Response: 26685
Conc: 2.03 ppb m



#4 rt10/13

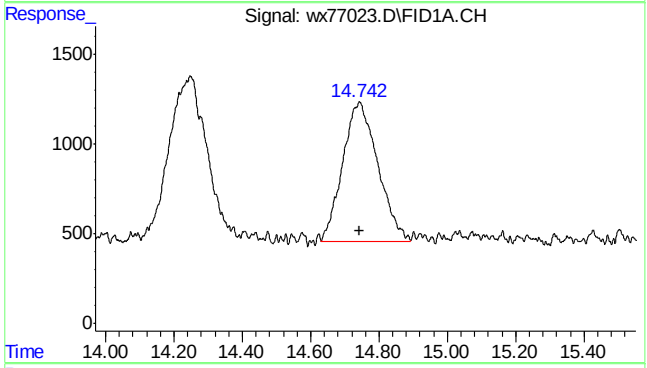
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 57225
Conc: 2.18 ppb m

SGS ACCUTEST MC46340



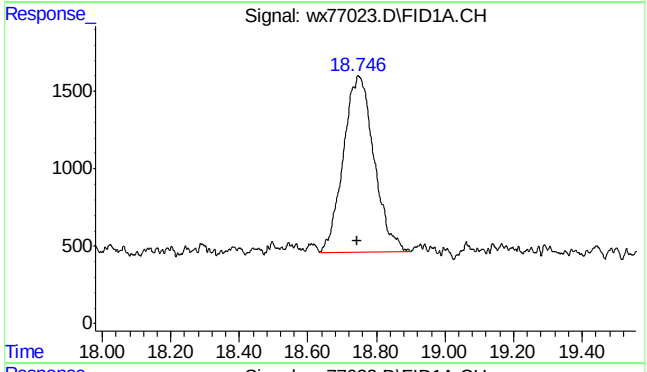
#5 benzene

R.T.: 14.247 min
Delta R.T.: 0.010 min
Response: 70953
Conc: 2.00 ppb m



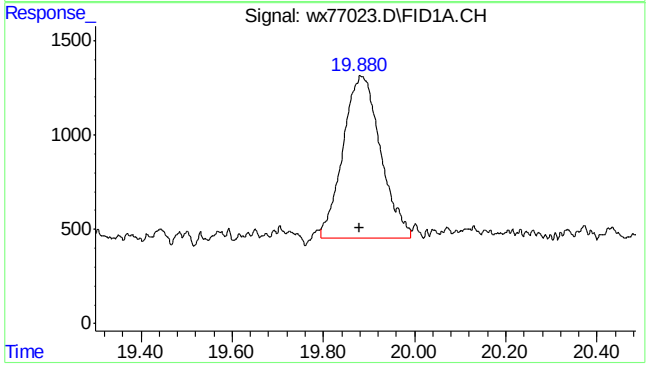
#6 fluorobenzene

R.T.: 14.742 min
Delta R.T.: 0.000 min
Response: 55966
Conc: 1.99 ppb m



#8 toluene

R.T.: 18.749 min
Delta R.T.: 0.003 min
Response: 70423
Conc: 2.02 ppb



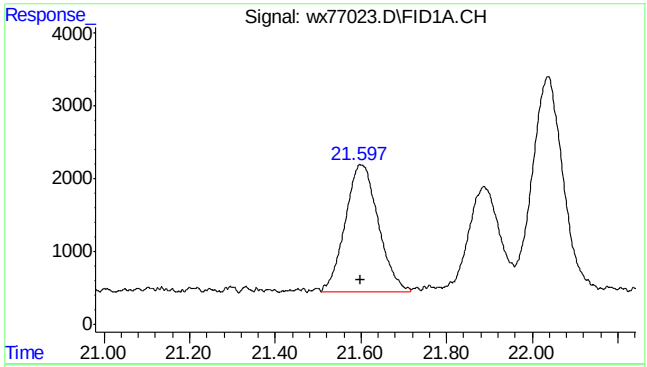
#9 2,3,4-trifluorotoluene

R.T.: 19.880 min
Delta R.T.: 0.000 min
Response: 49232
Conc: 2.18 ppb m

7.5.8

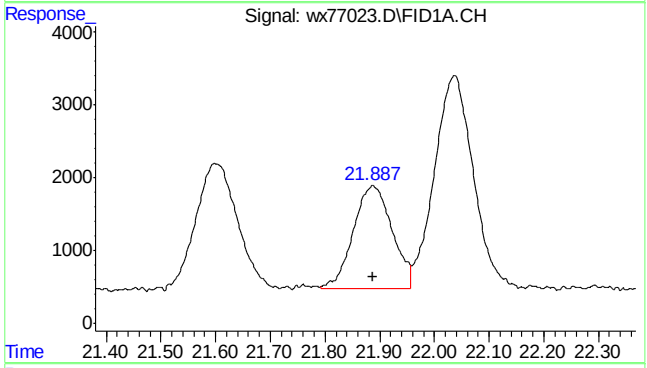
7

SGS ACCUTEST MC46340



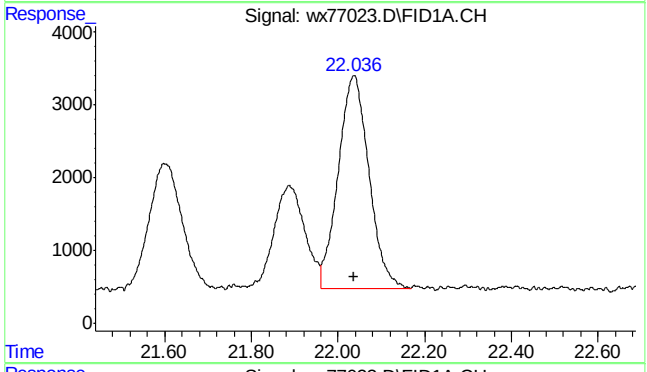
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 93236
Conc: 2.77 ppb m



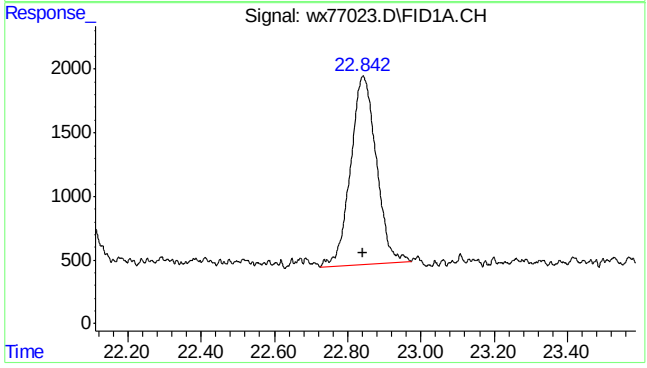
#13 ethylbenzene

R.T.: 21.887 min
Delta R.T.: 0.000 min
Response: 70038
Conc: 2.03 ppb m



#14 m,p-xylene

R.T.: 22.037 min
Delta R.T.: 0.002 min
Response: 143939
Conc: 4.05 ppb



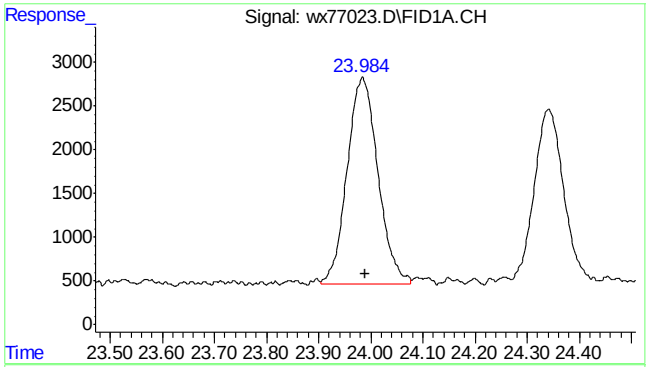
#15 o-xylene

R.T.: 22.843 min
Delta R.T.: 0.000 min
Response: 72250
Conc: 2.05 ppb

7.5.8

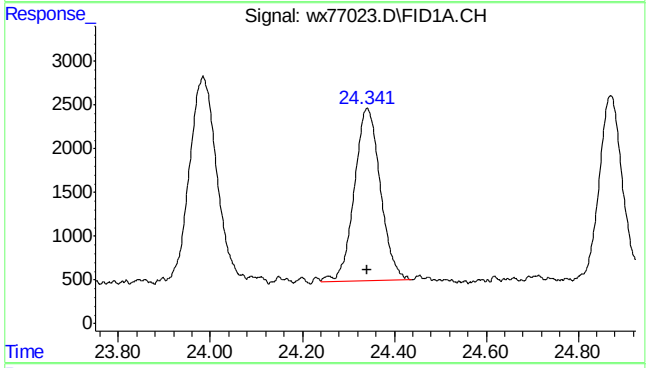
7

SGS ACCUTEST MC46340



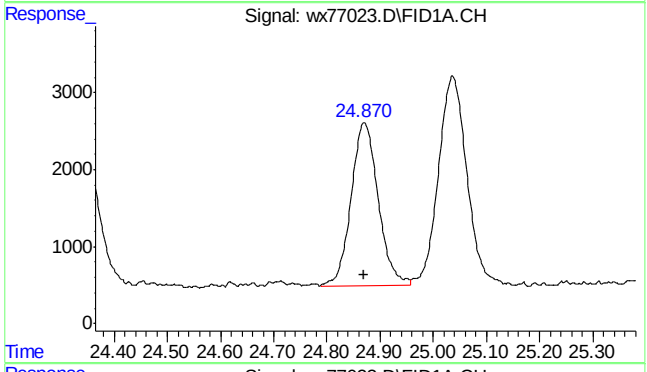
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 97419
Conc: 2.84 ppb m



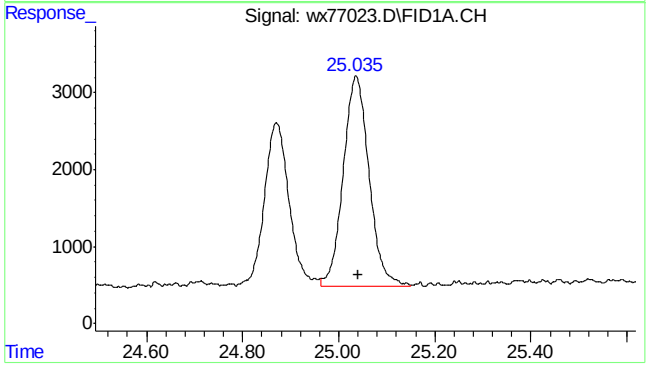
#17 1,3,5-trimethylbenzene

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 77869
Conc: 2.10 ppb



#18 1,2,4-trimethylbenzene

R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 75016
Conc: 2.12 ppb

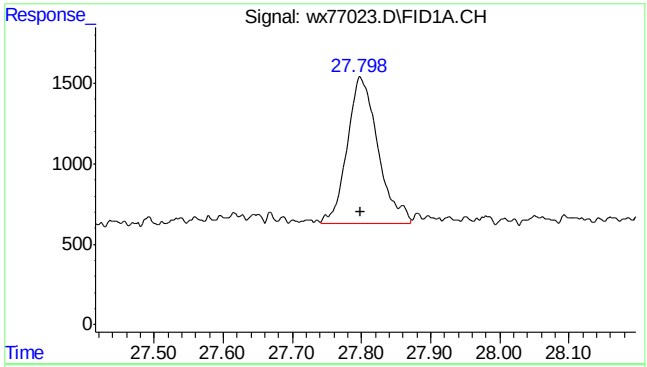


#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 101787
Conc: 2.84 ppb m

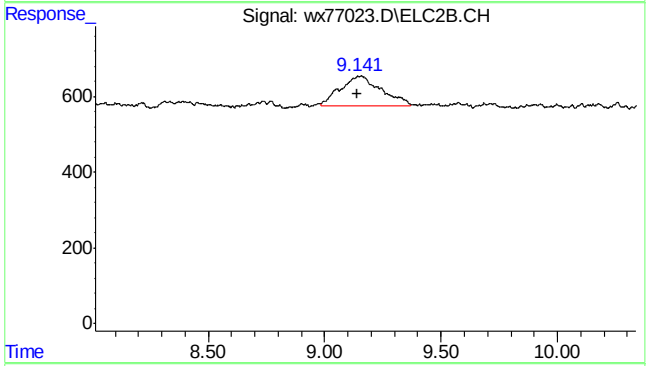
7.5.8

7



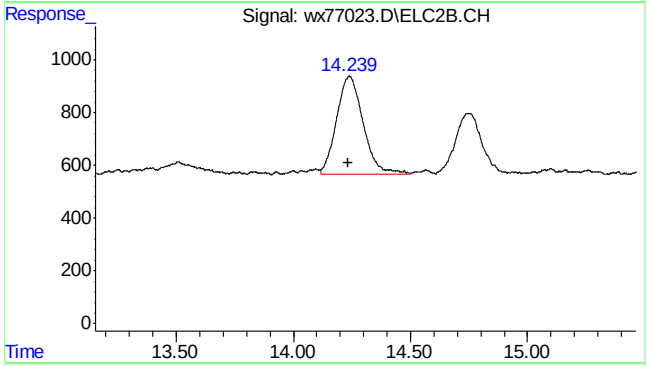
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 27696
Conc: 1.41 ppb m



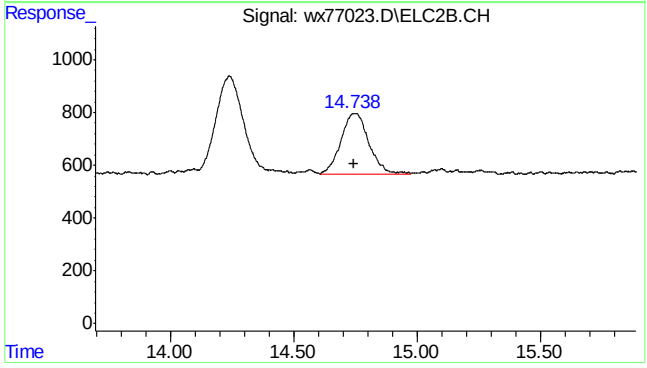
#23 mtbe #2

R.T.: 9.141 min
Delta R.T.: 0.003 min
Response: 9552
Conc: 2.14 ppb m



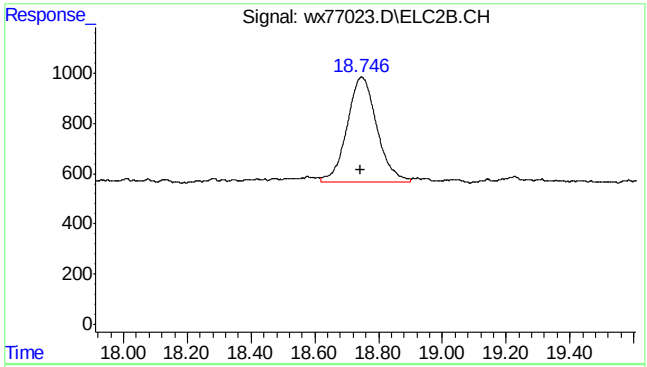
#24 benzene #2

R.T.: 14.240 min
Delta R.T.: 0.003 min
Response: 29057
Conc: 2.04 ppb



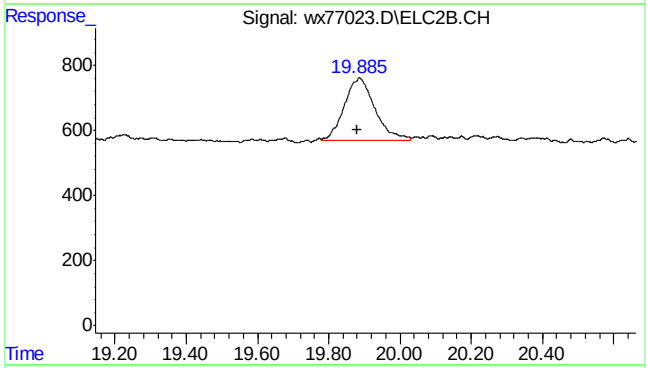
#25 fluorobenzene #2

R.T.: 14.748 min
Delta R.T.: 0.006 min
Response: 18258
Conc: 2.02 ppb



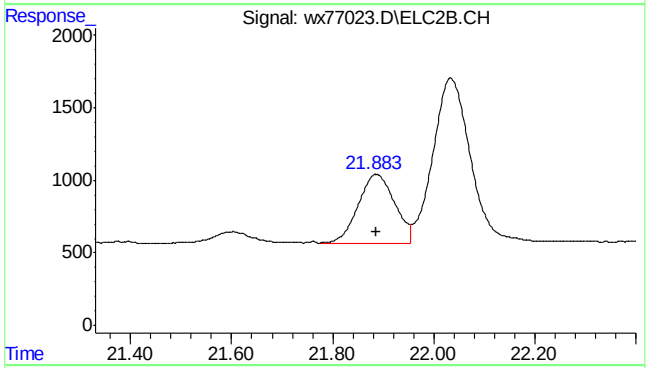
#26 toluene #2

R.T.: 18.746 min
Delta R.T.: 0.002 min
Response: 26841
Conc: 2.08 ppb m



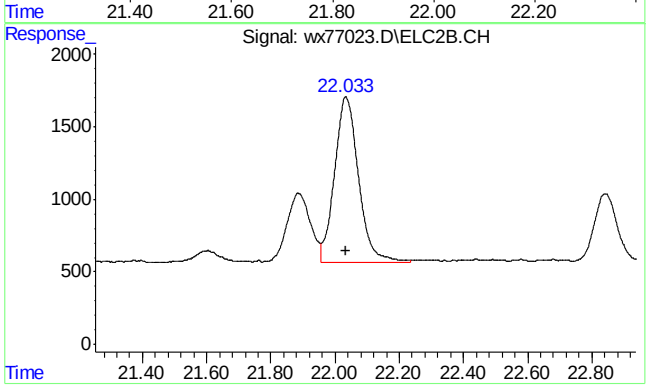
#27 2,3,4-trifluorotoluene #2

R.T.: 19.885 min
Delta R.T.: 0.006 min
Response: 11698
Conc: 2.20 ppb m



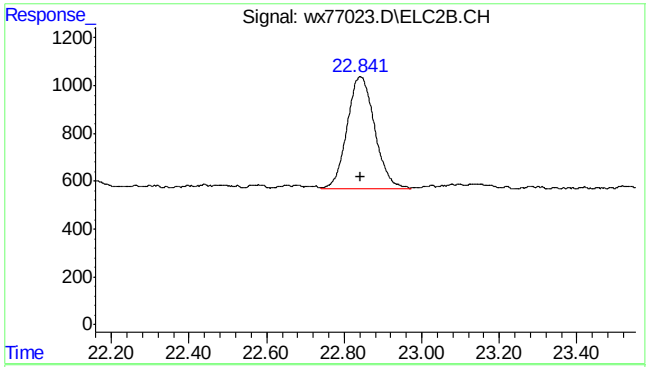
#28 ethylbenzene #2

R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 23795
Conc: 2.08 ppb



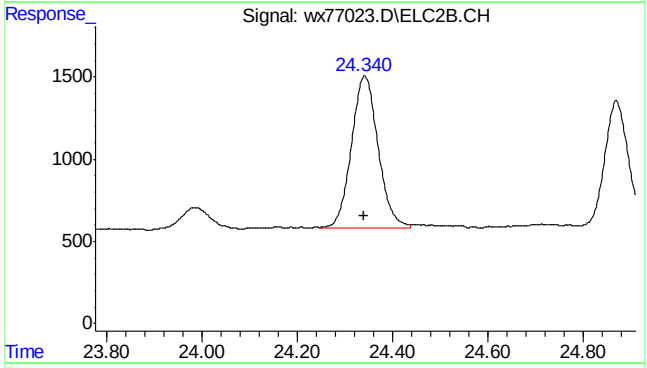
#29 m,p-xylene #2

R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 58894
Conc: 4.22 ppb



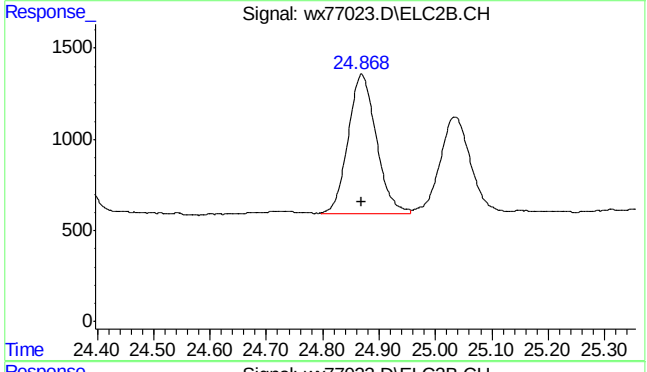
#30 o-xylene #2

R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 23056
Conc: 1.97 ppb



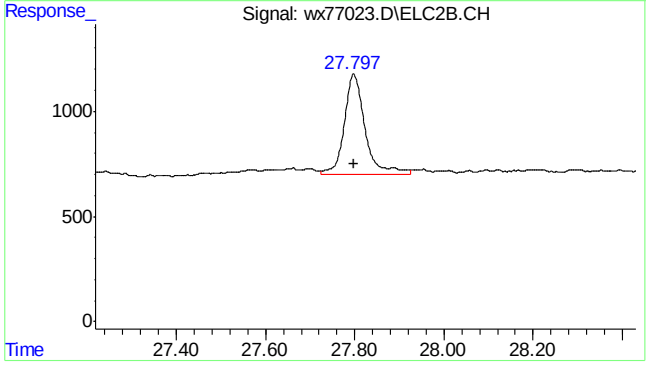
#31 1,3,5-trimethylbenzene #2

R.T.: 24.340 min
Delta R.T.: 0.000 min
Response: 35838
Conc: 2.08 ppb m



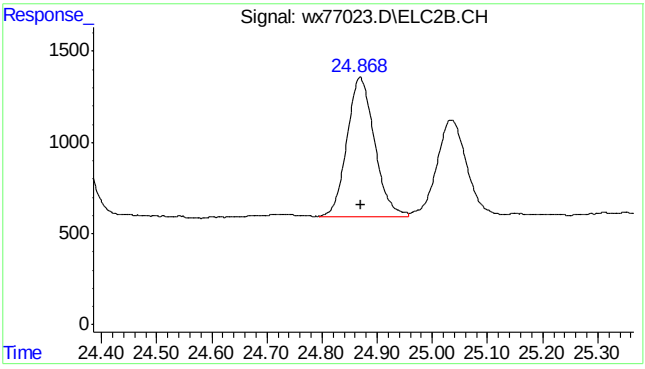
#32 1,2,4-trimethylbenzene #2

R.T.: 24.868 min
Delta R.T.: 0.000 min
Response: 26438
Conc: 2.08 ppb m



#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 15632
Conc: 1.57 ppb m



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

R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	26461
Conc:	2.08 ppb m

7.5.8

7

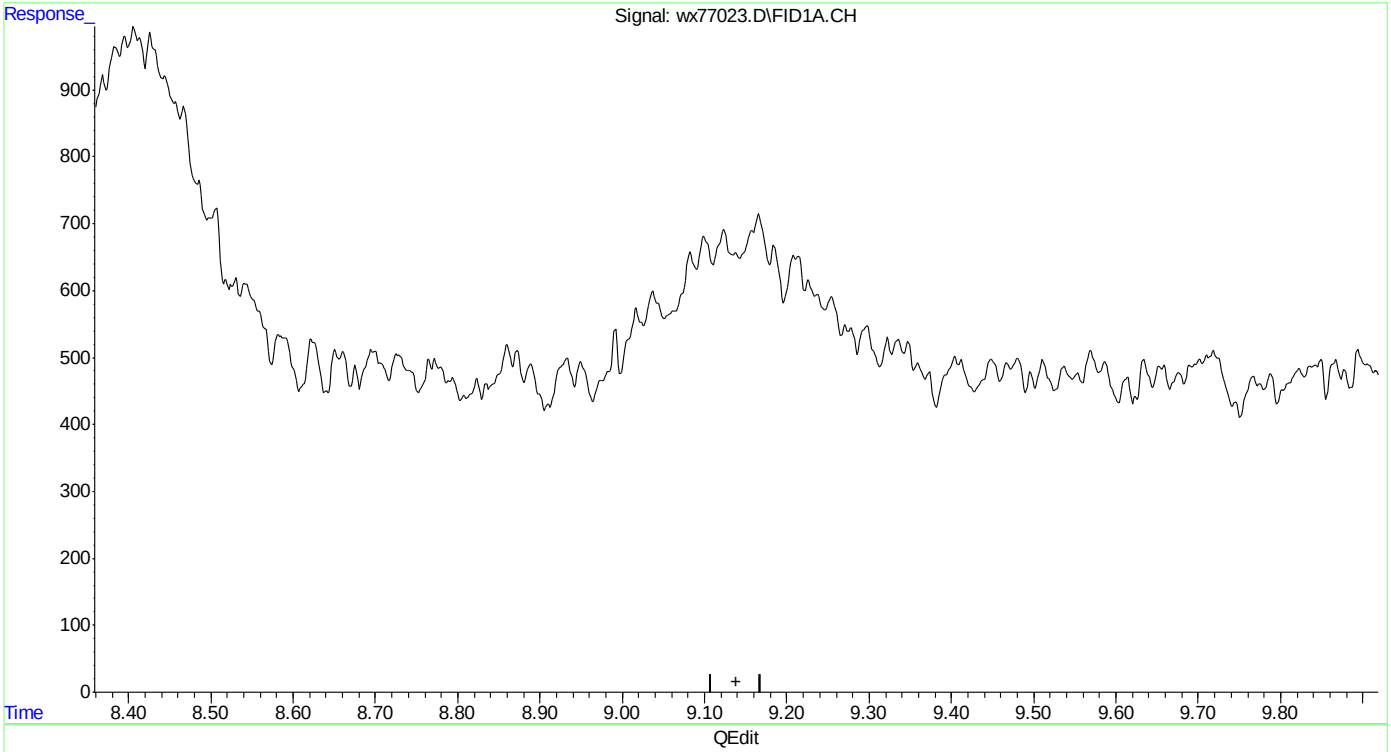
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.139min 0.000 ppb
response 0

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:05:18 2016

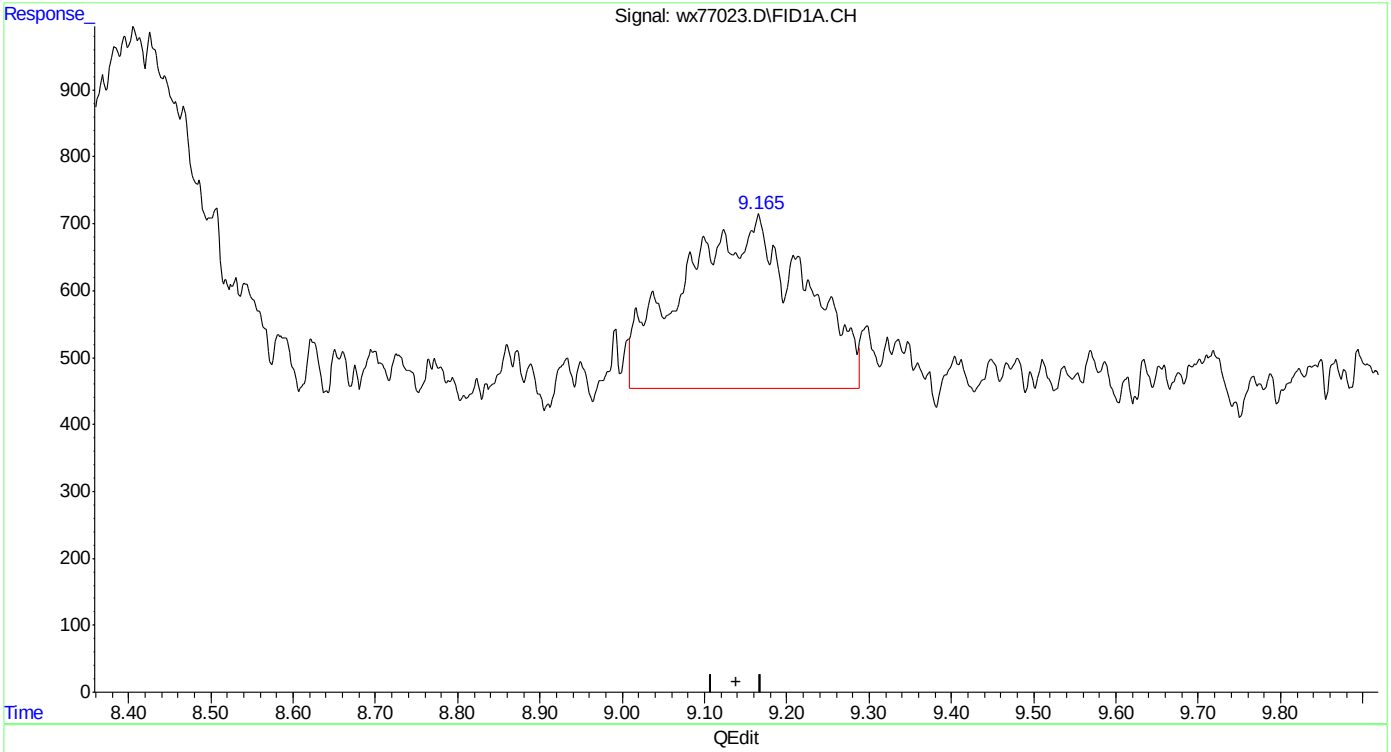
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.165min 2.027 ppb m
response 26685

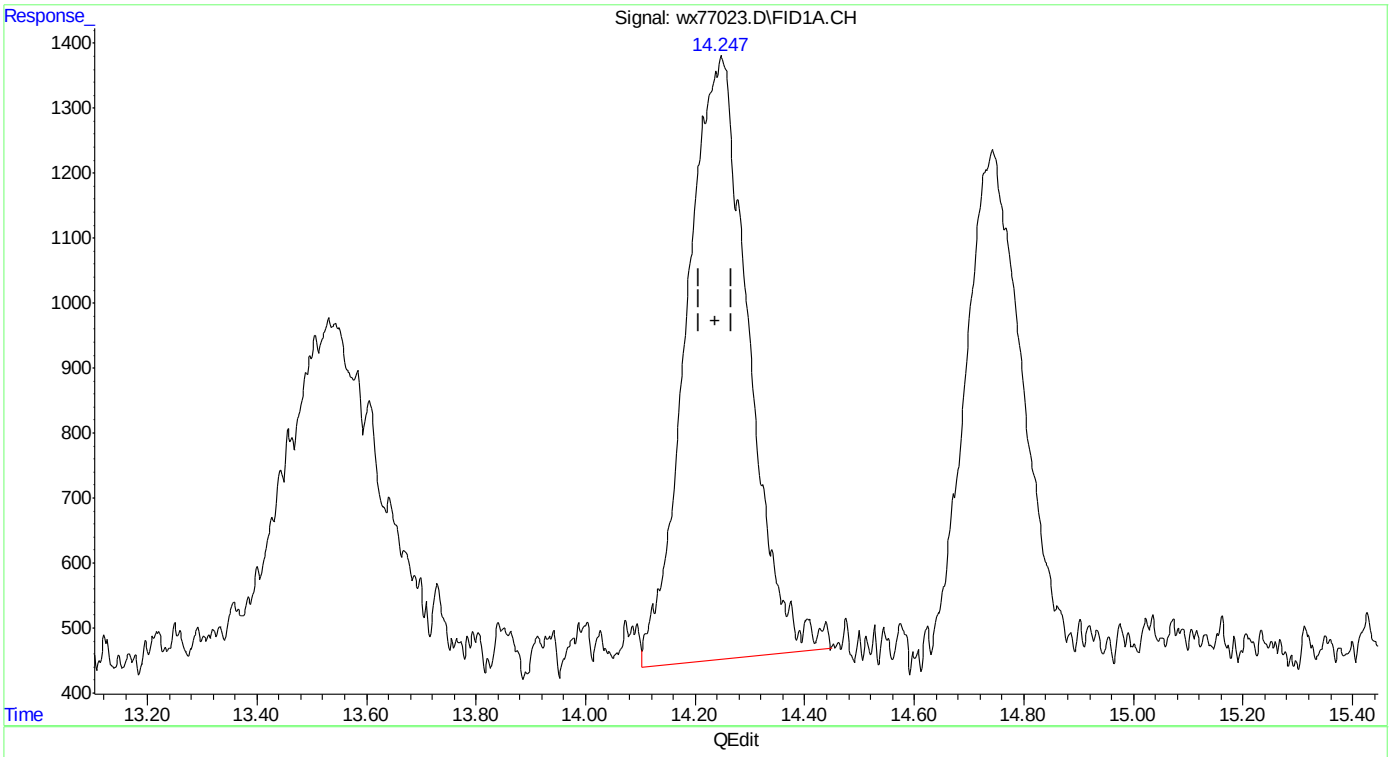
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:05:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.249min 2.054 ppb
response 72982

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:12 2016

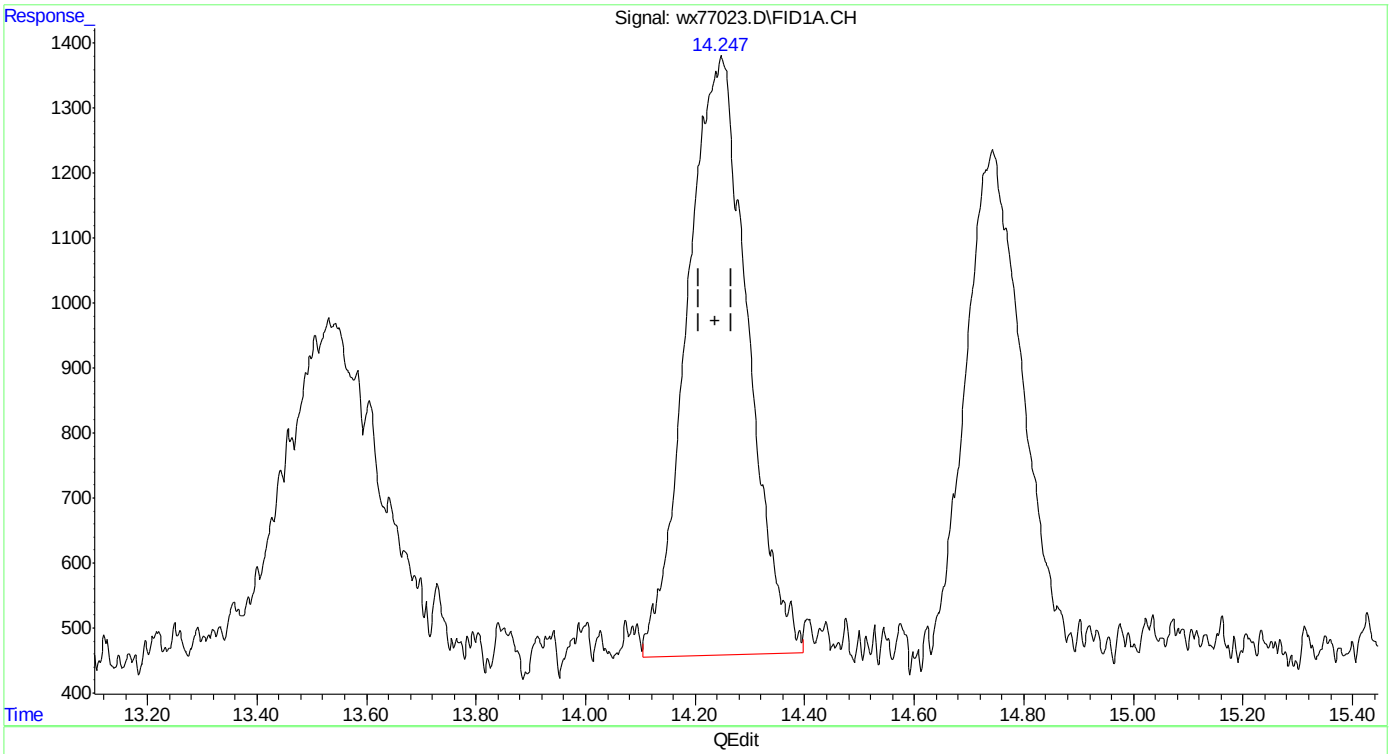
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.247min 1.997 ppb m
response 70953

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:18 2016

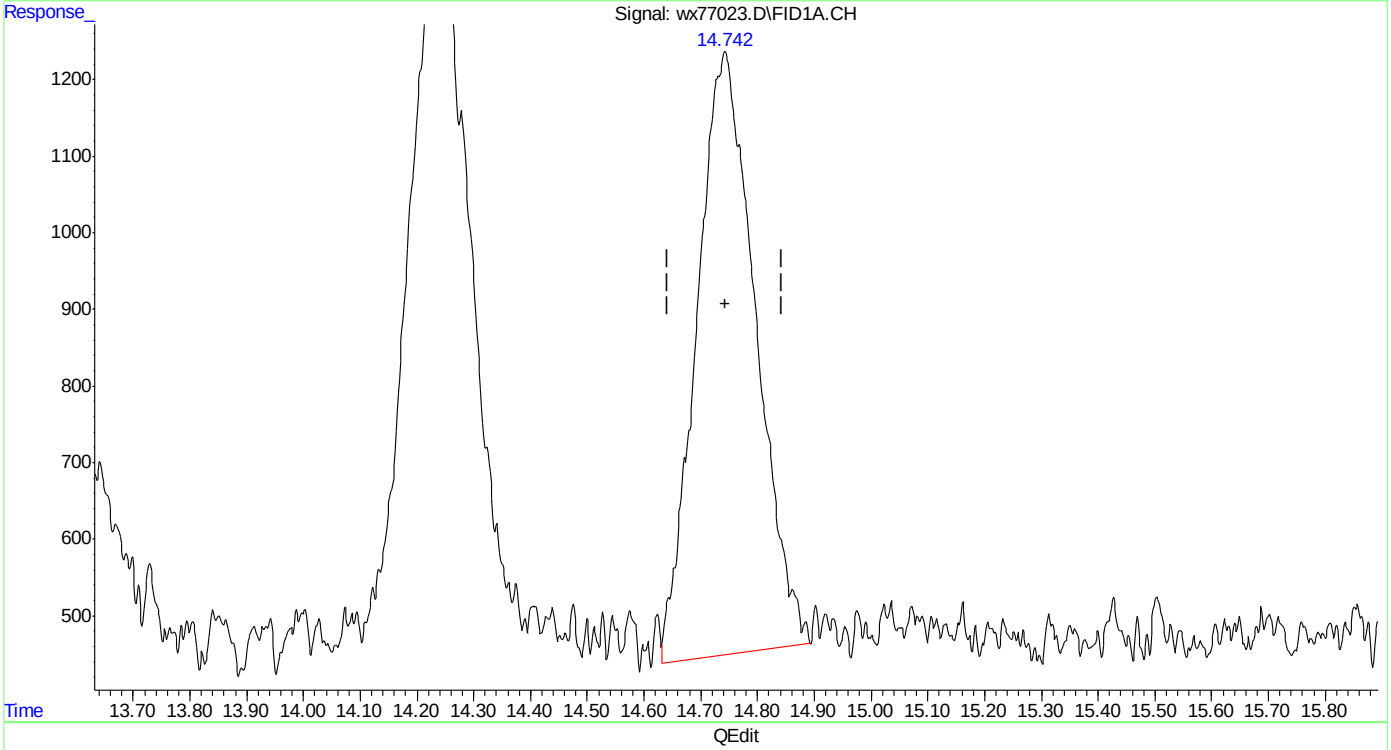
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.743min 2.015 ppb
response 56744

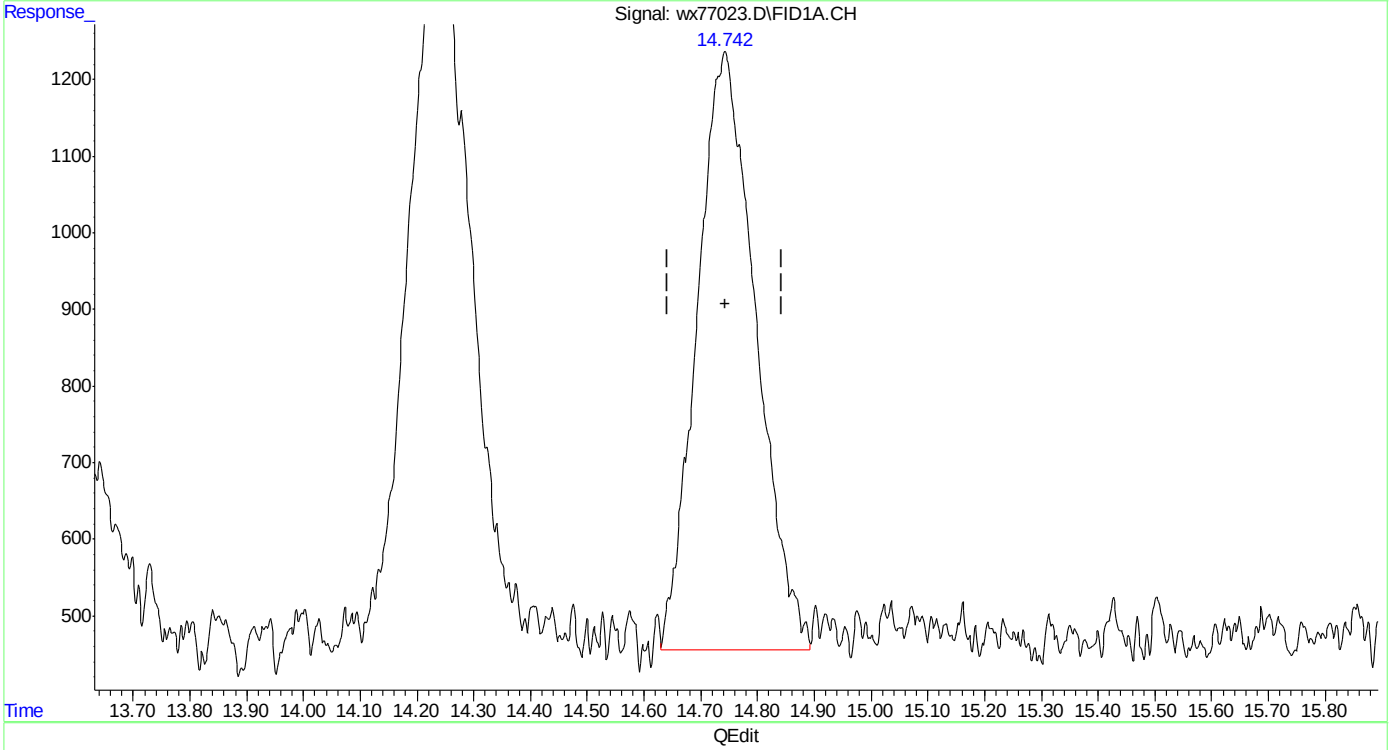
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.742min 1.988 ppb m
response 55966

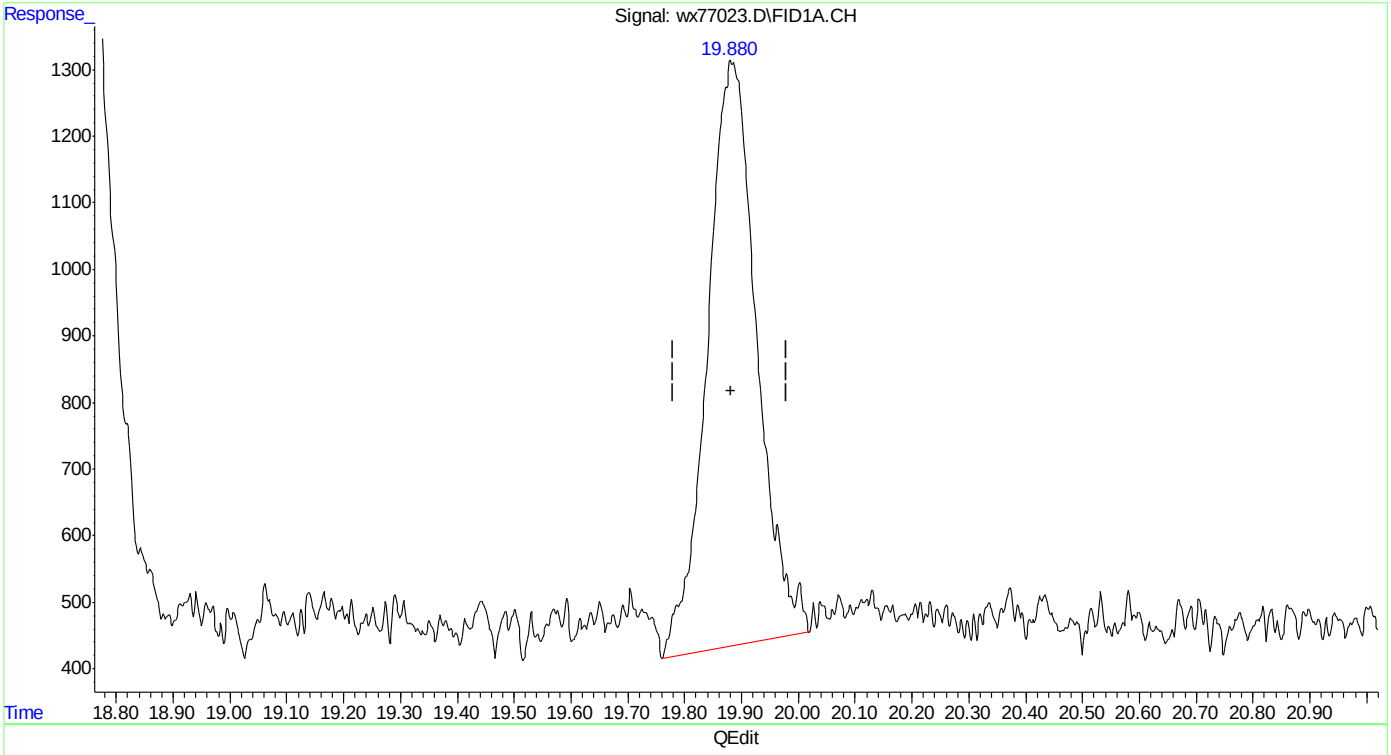
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:27 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.883min 2.343 ppb
response 52958

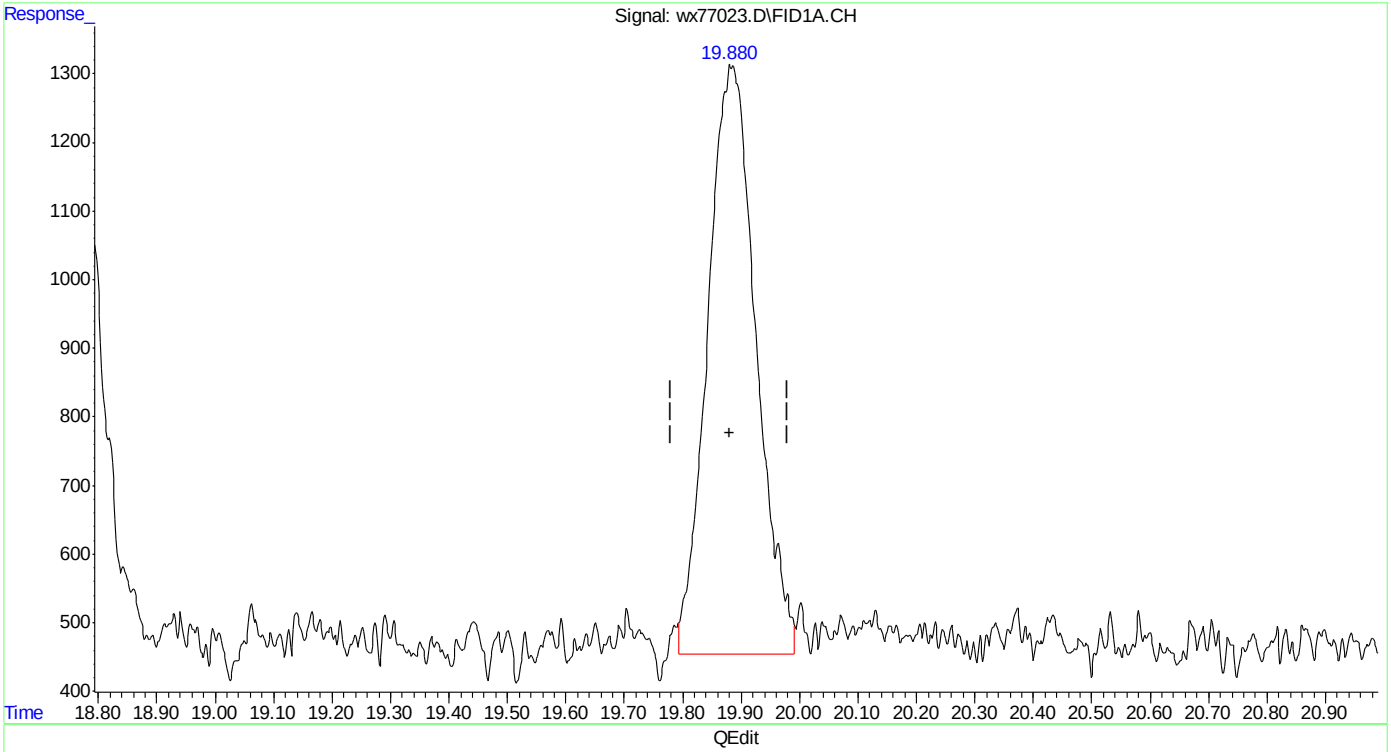
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.880min 2.178 ppb m
response 49232

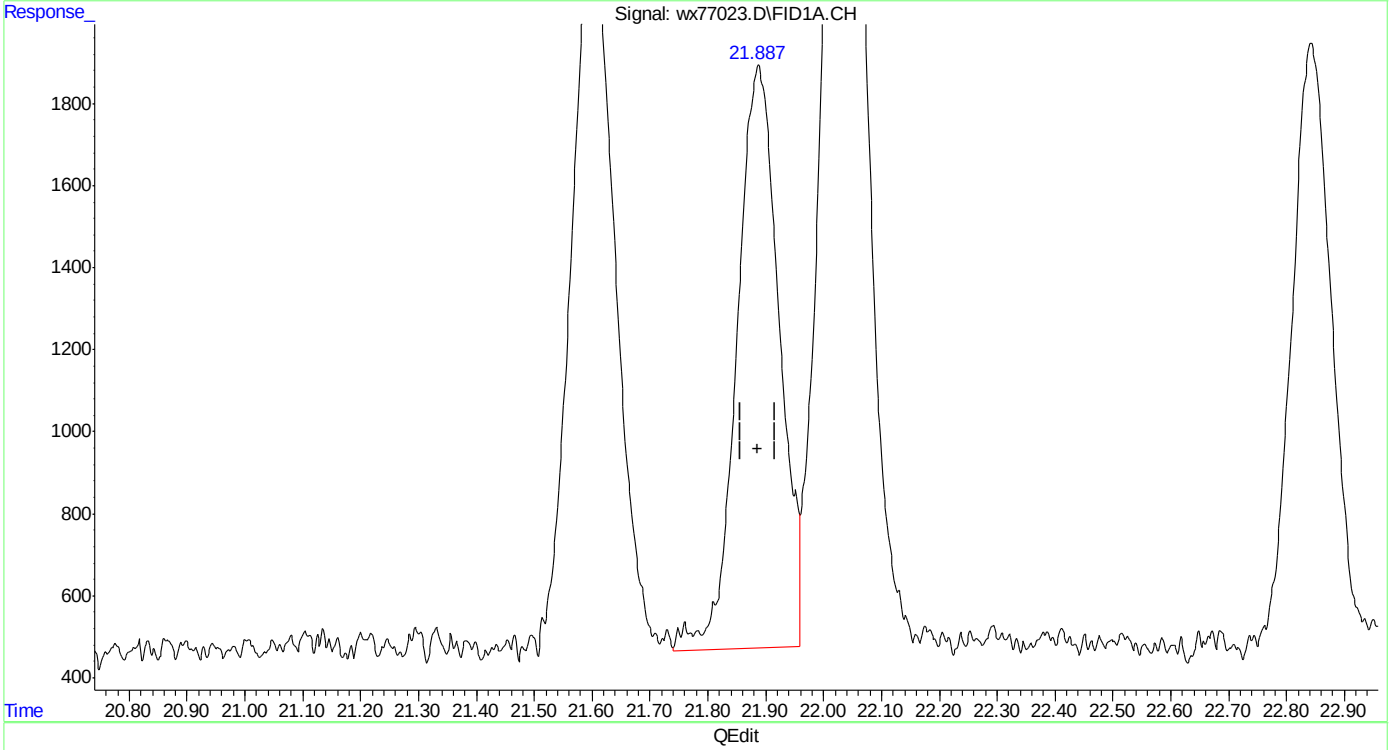
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.888min 2.096 ppb
response 72207

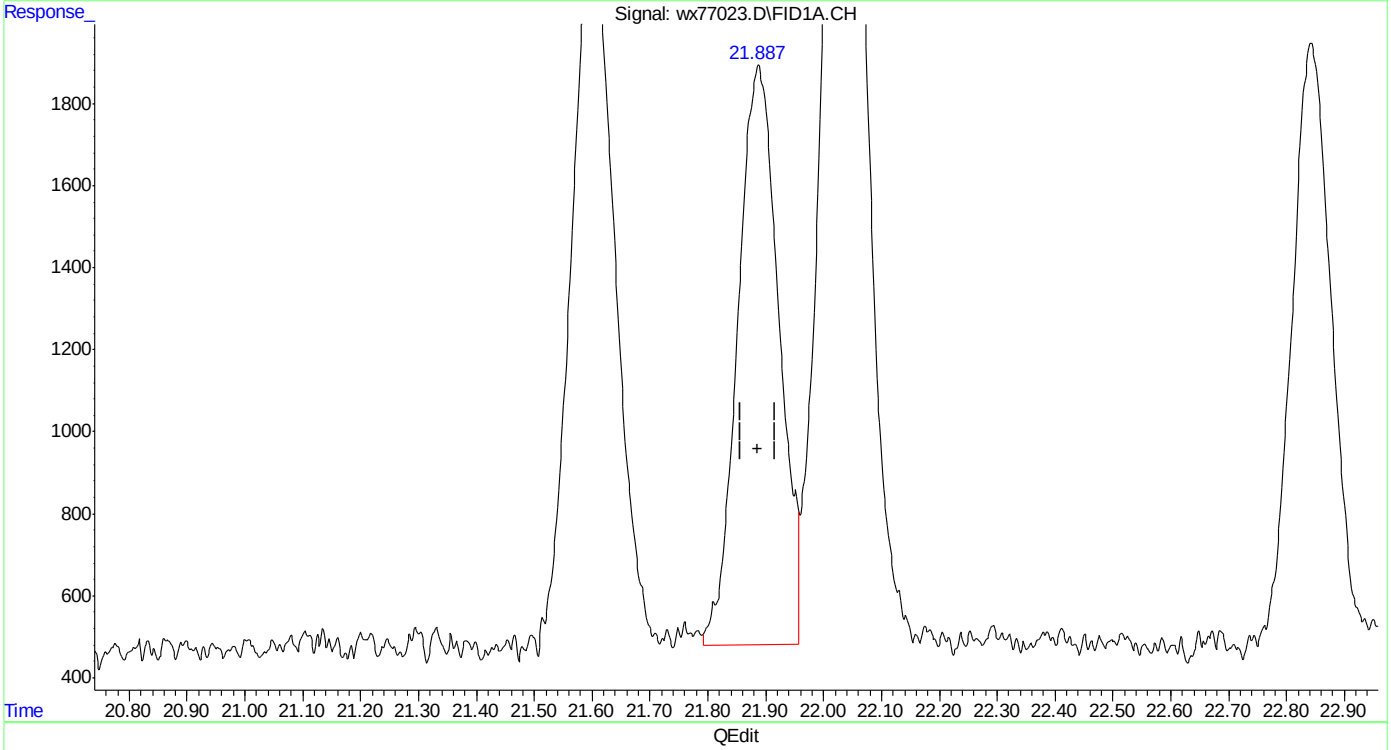
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:10 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  11:52 am
Operator  : tonyf
Sample    : ic3782-2,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 8   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene

21.887min 2.033 ppb m

response 70038

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:07:15 2016 Page: 1

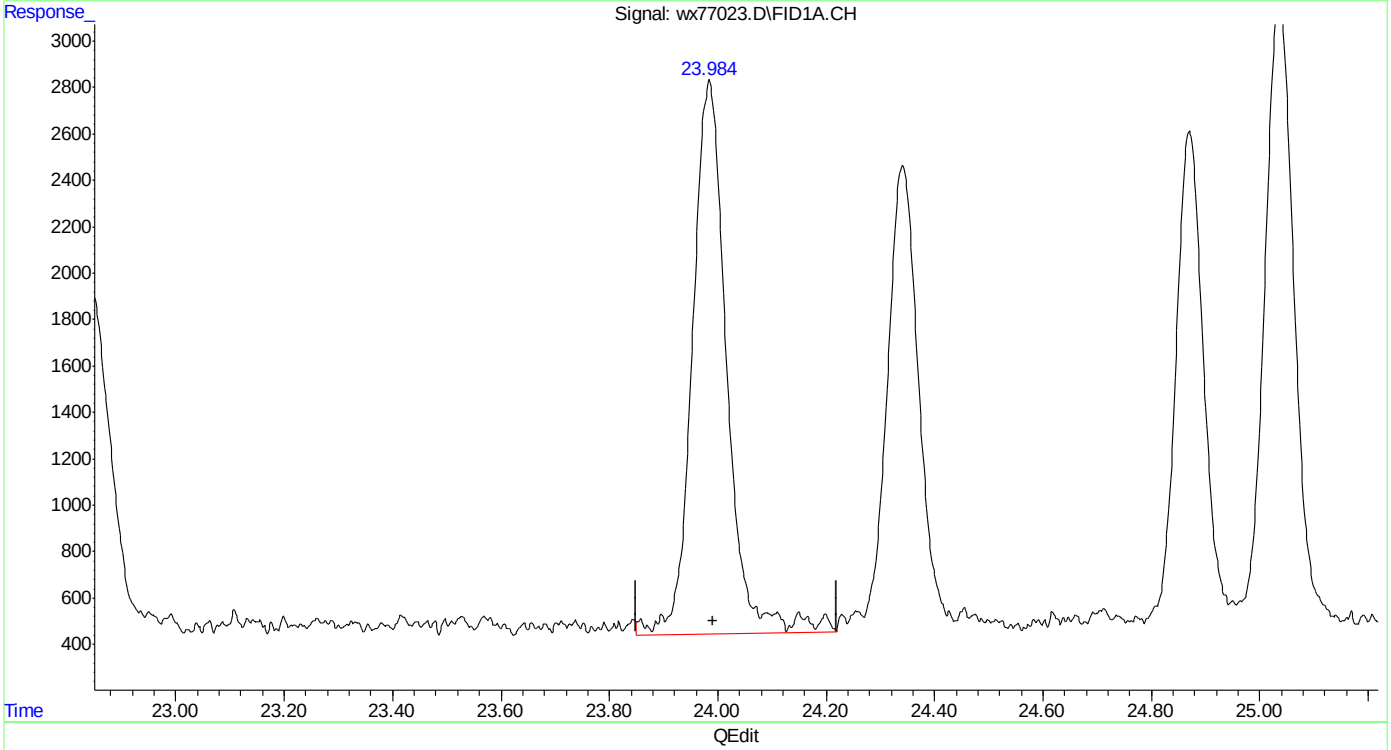
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 3.076 ppb
response 105589

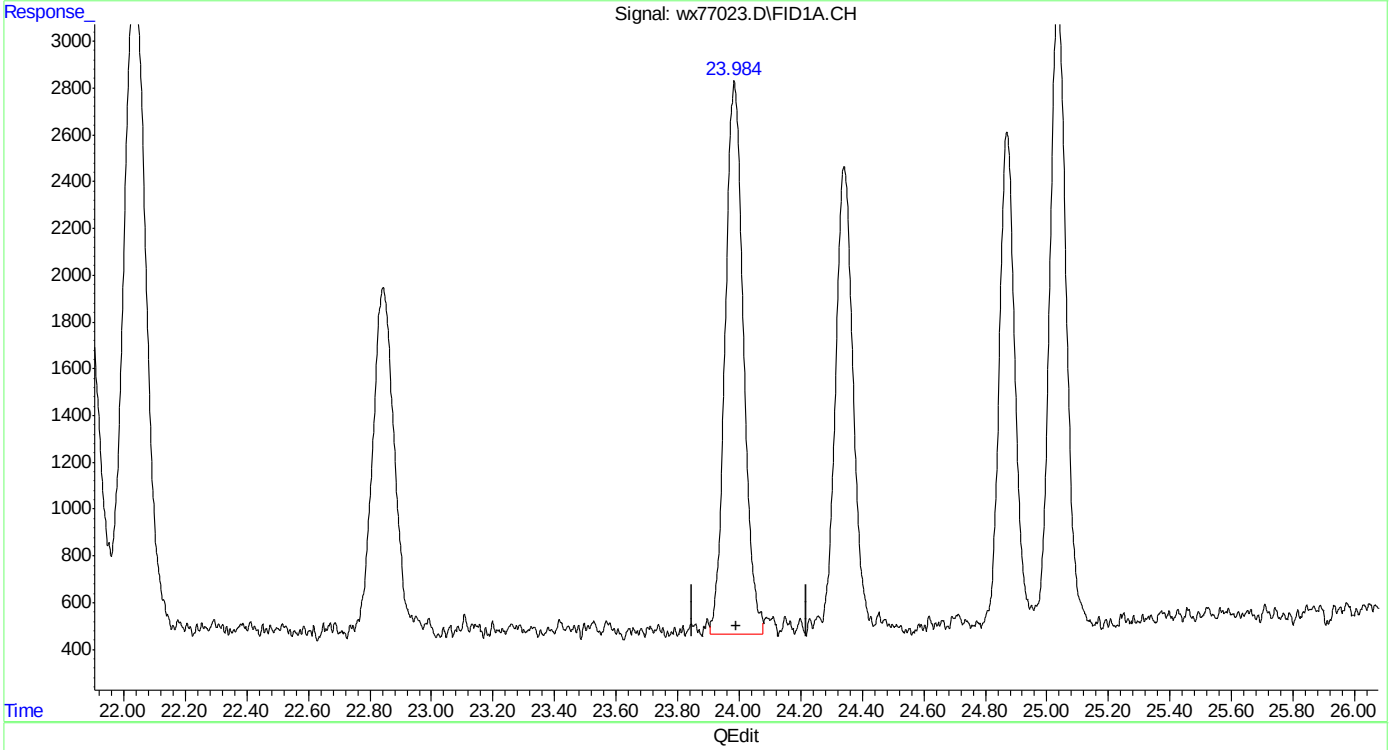
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 2.838 ppb m
response 97419

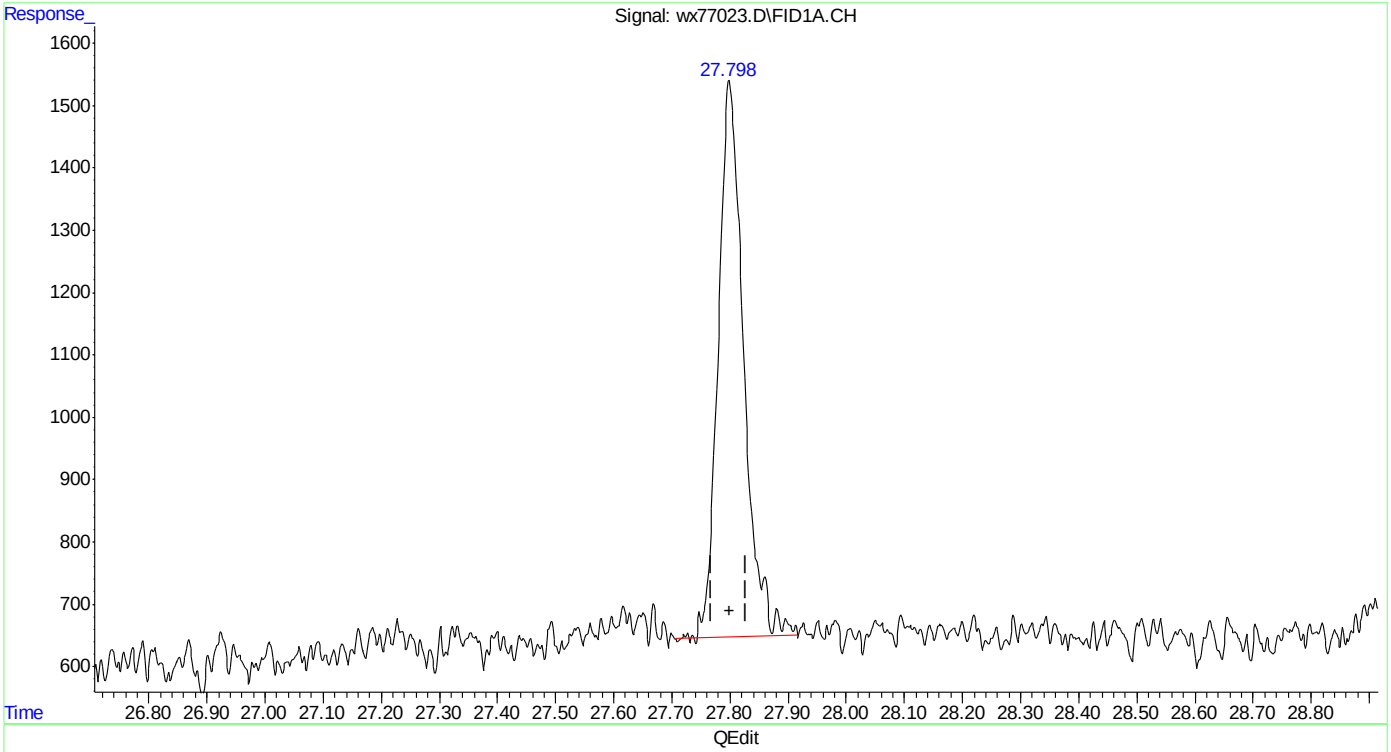
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.800min 1.378 ppb
response 26981

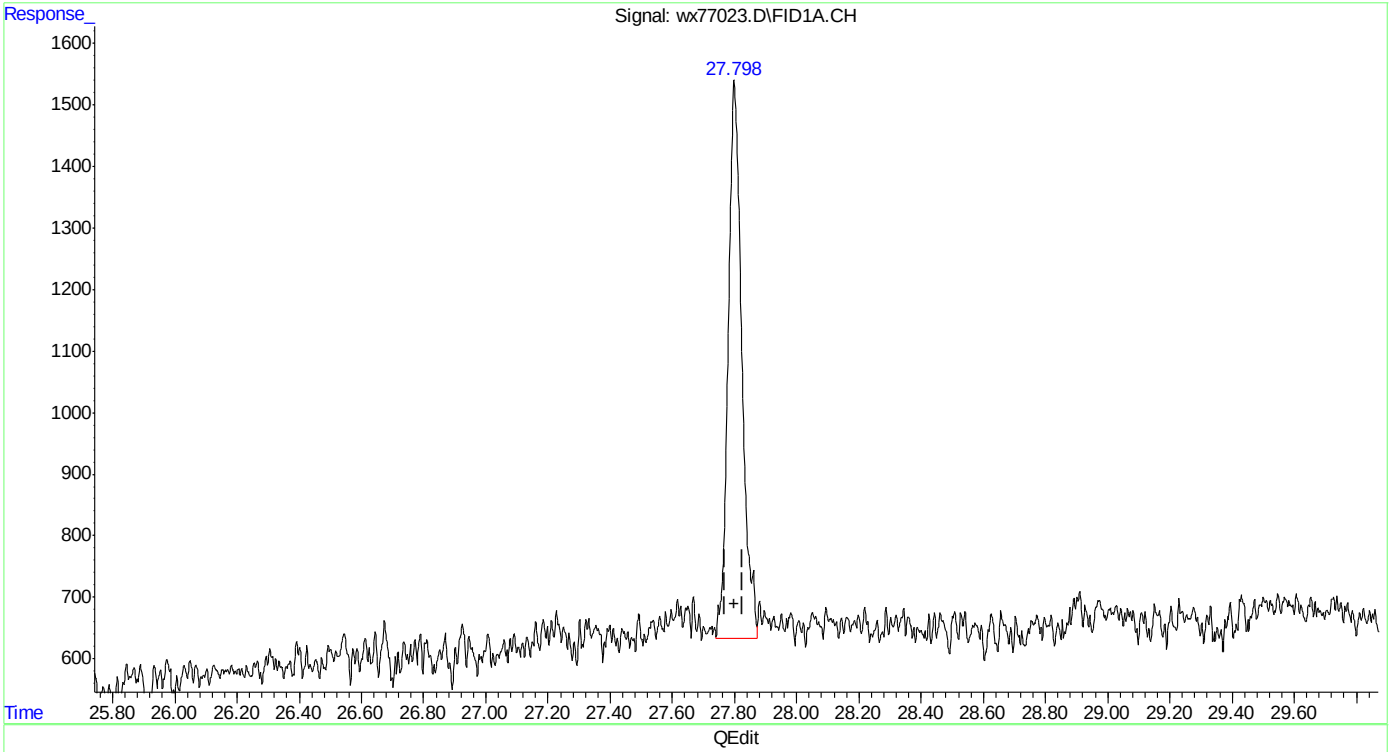
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:51 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  11:52 am
Operator  : tonyf
Sample    : ic3782-2,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 8   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.798min 1.414 ppb m

response 27696

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:07:58 2016 Page: 1

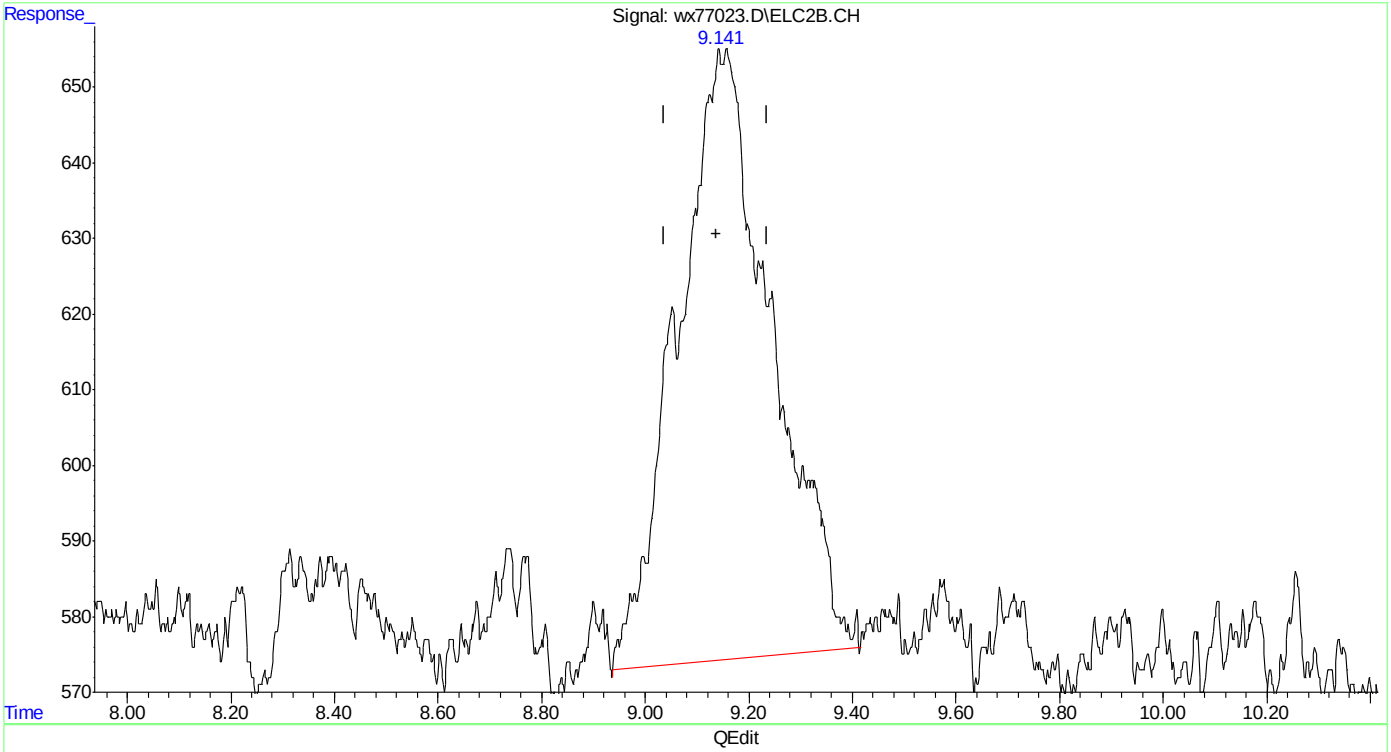
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.158min 2.295 ppb
response 10240

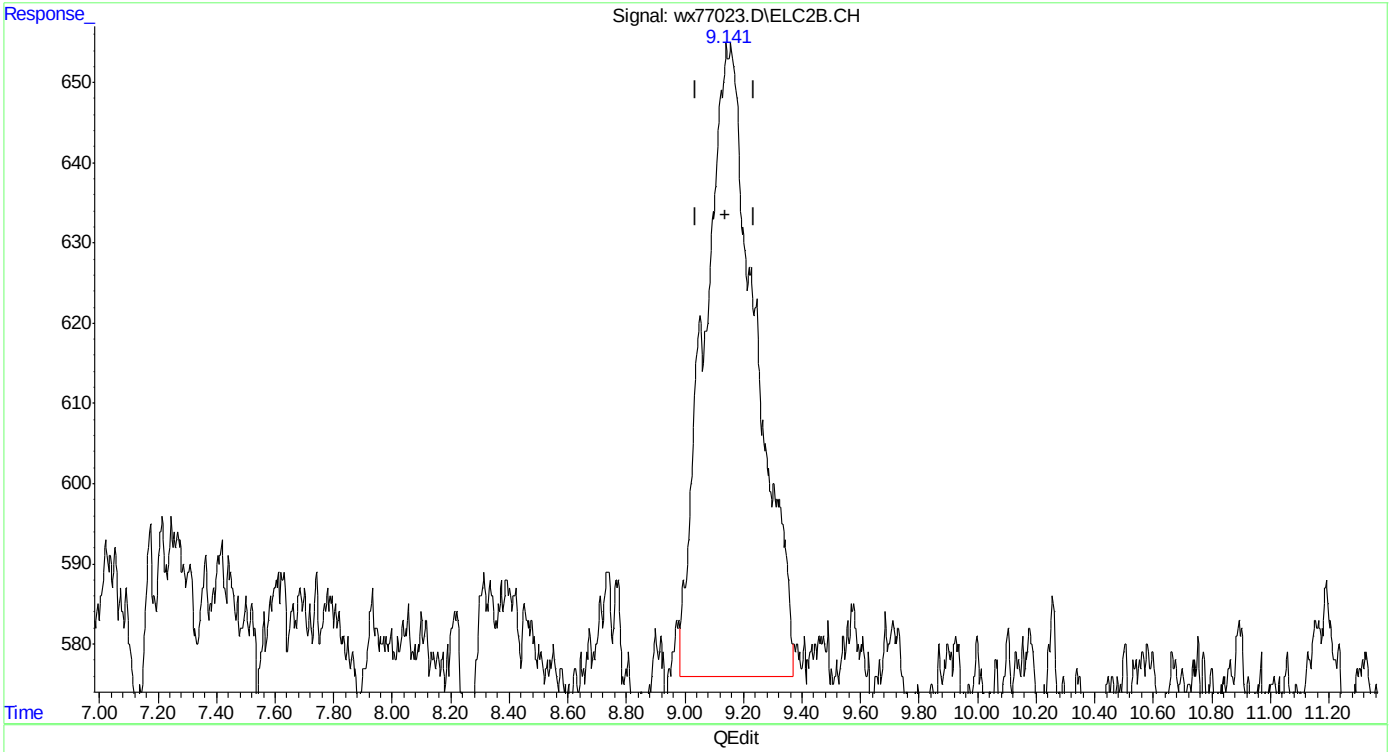
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.141min 2.141 ppb m
response 9552

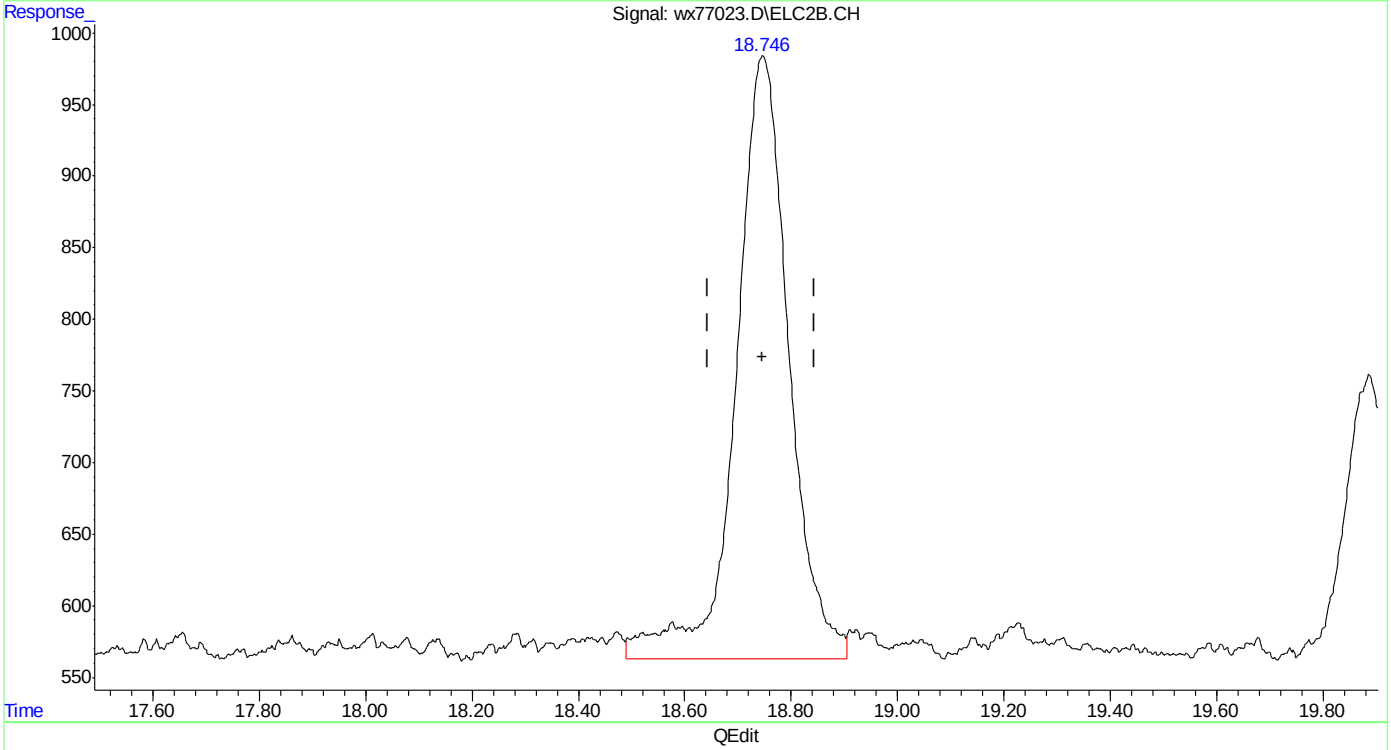
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:34 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.747min 2.252 ppb
response 29038

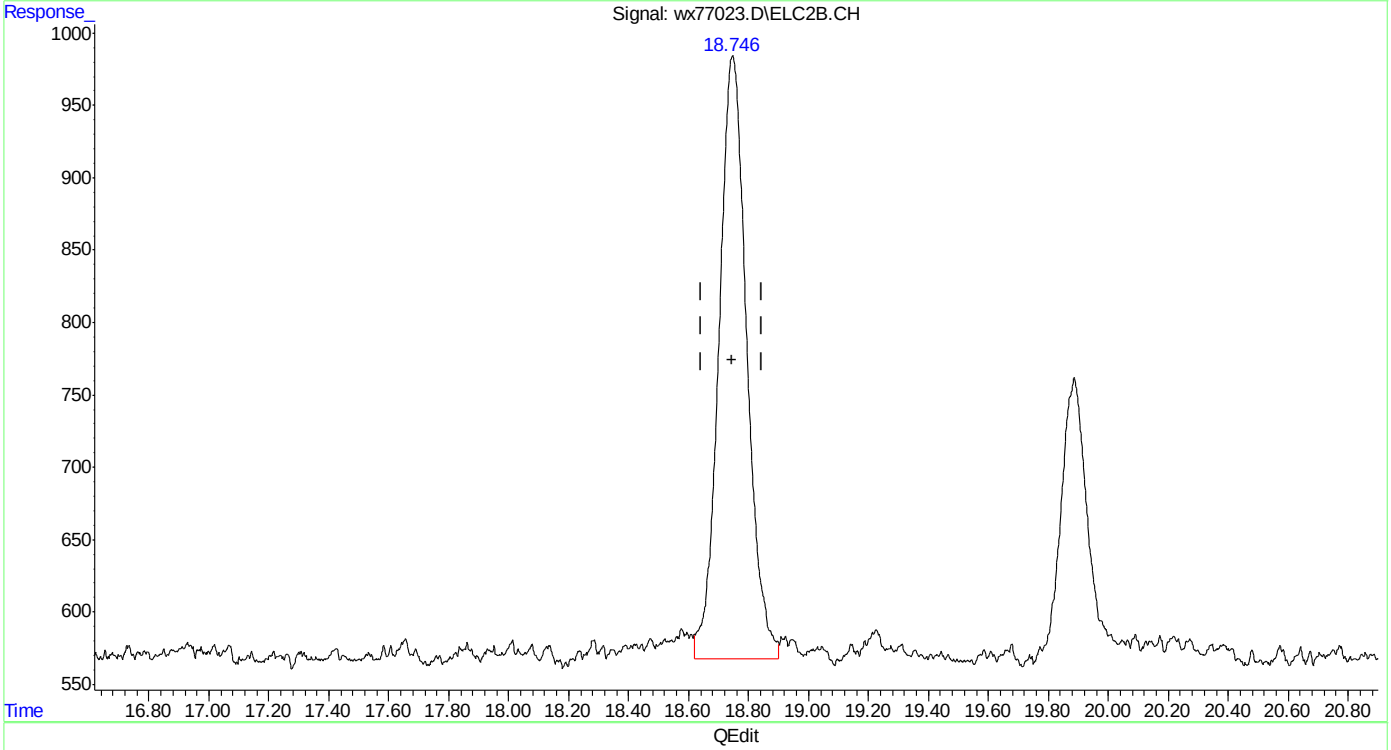
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.746min 2.082 ppb m
response 26841

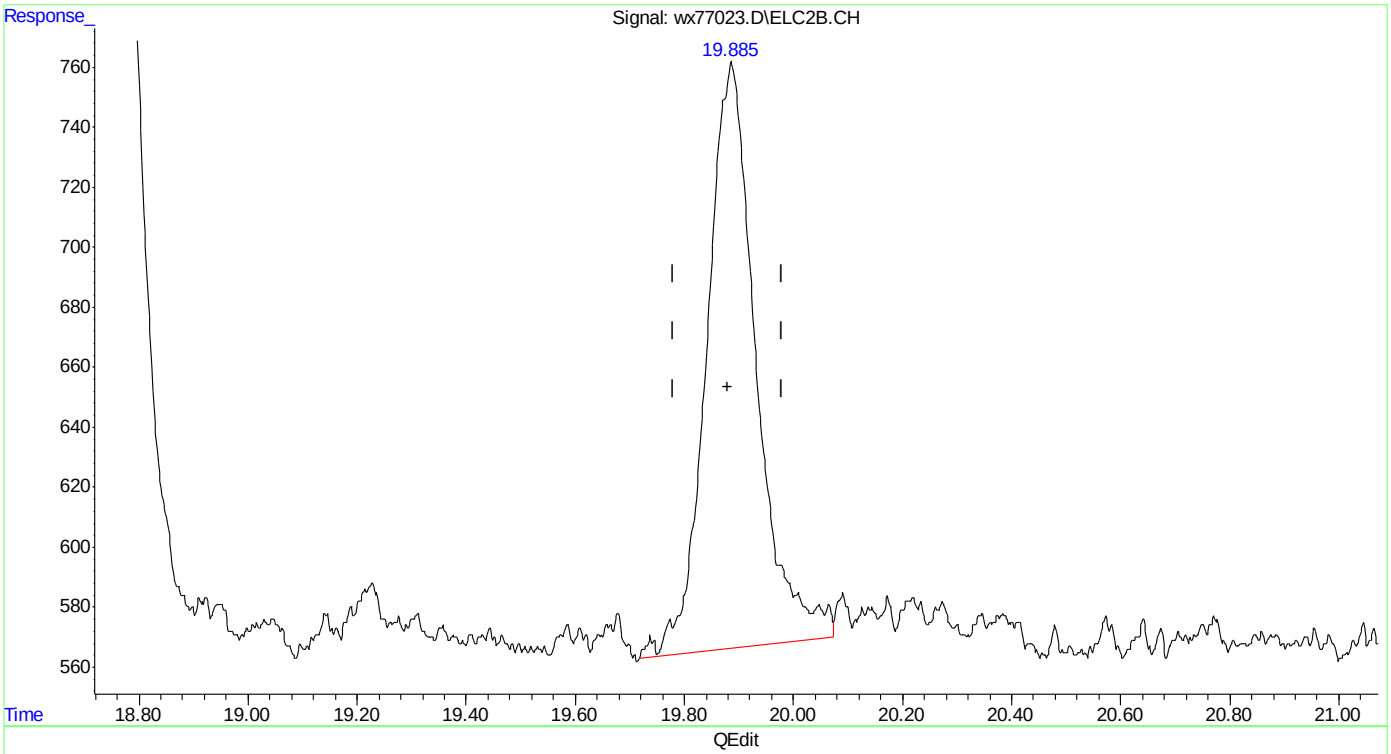
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.887min 2.318 ppb
response 12340

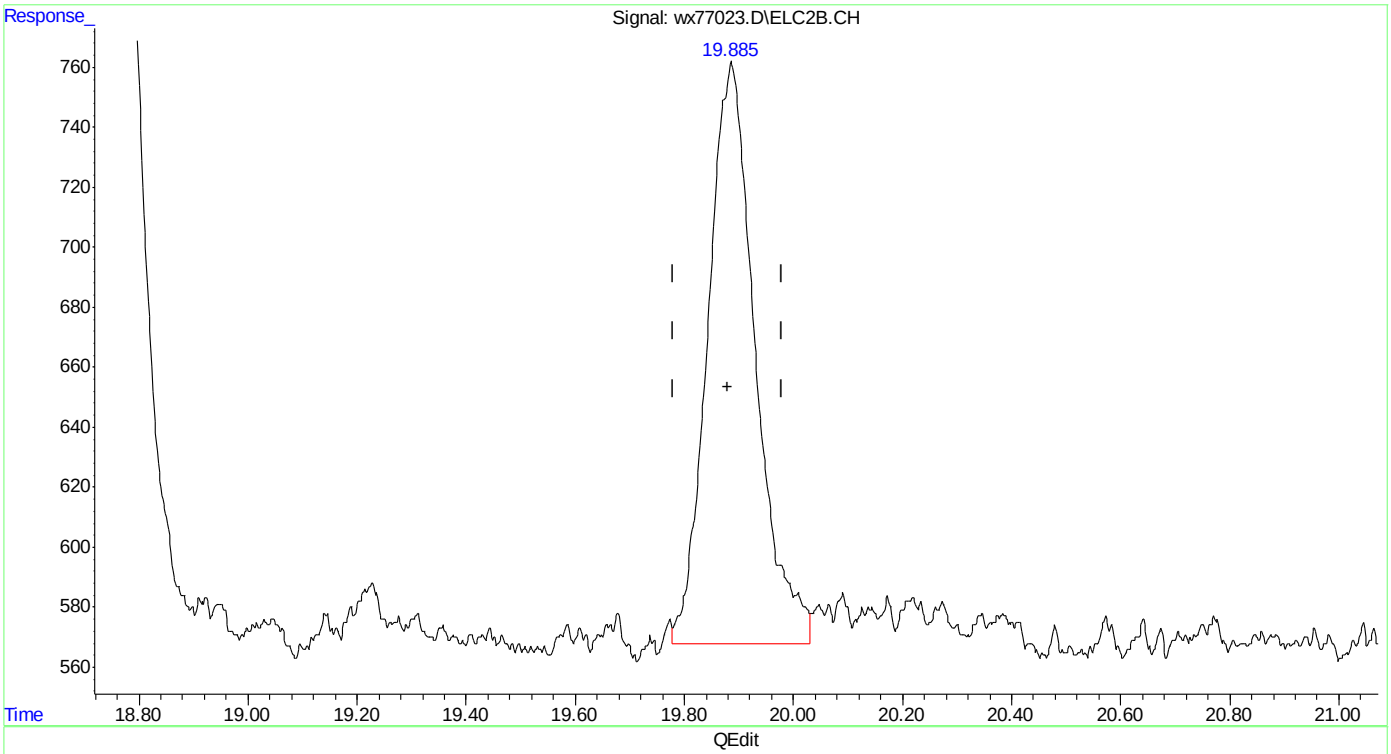
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:53 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.885min 2.197 ppb m
response 11698

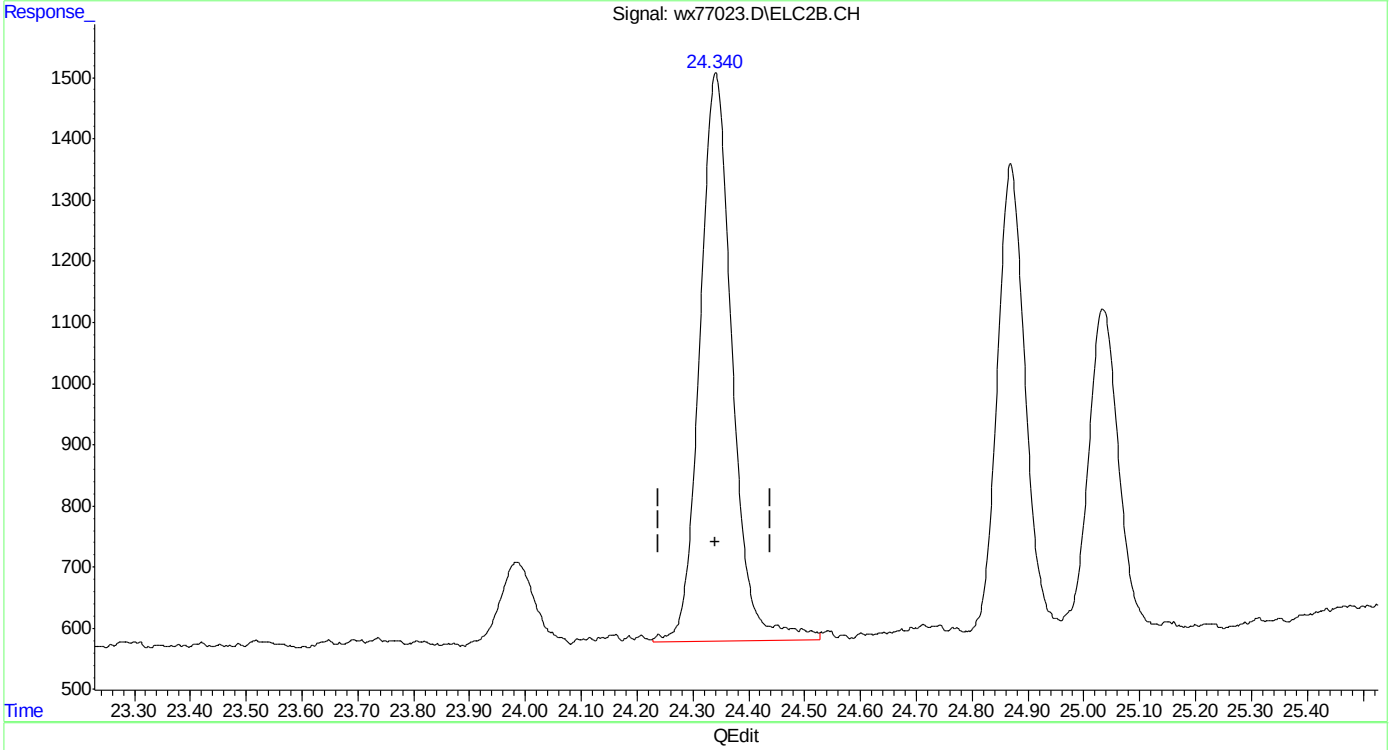
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:02 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
24.341min 2.177 ppb
response 37421

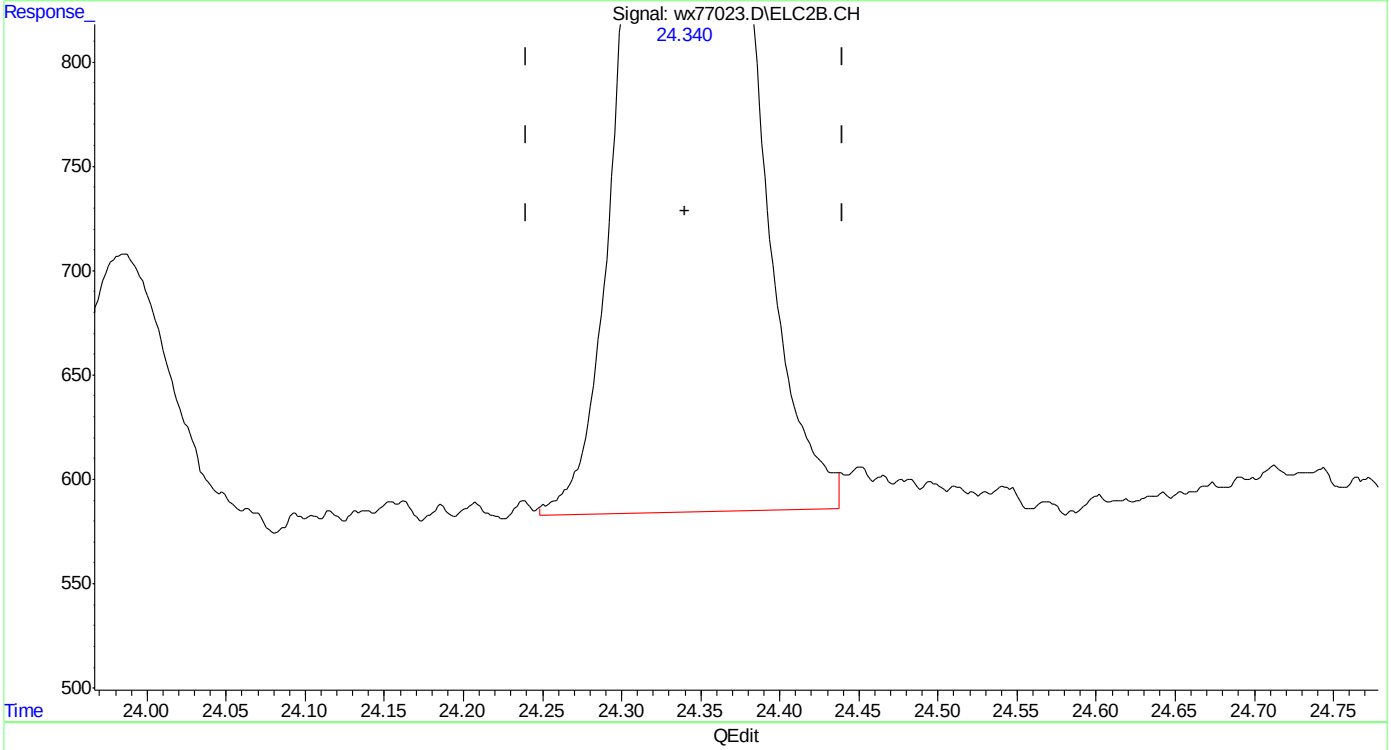
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:10 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)

24.340min 2.085 ppb m

response 35838

(+) = Expected Retention Time

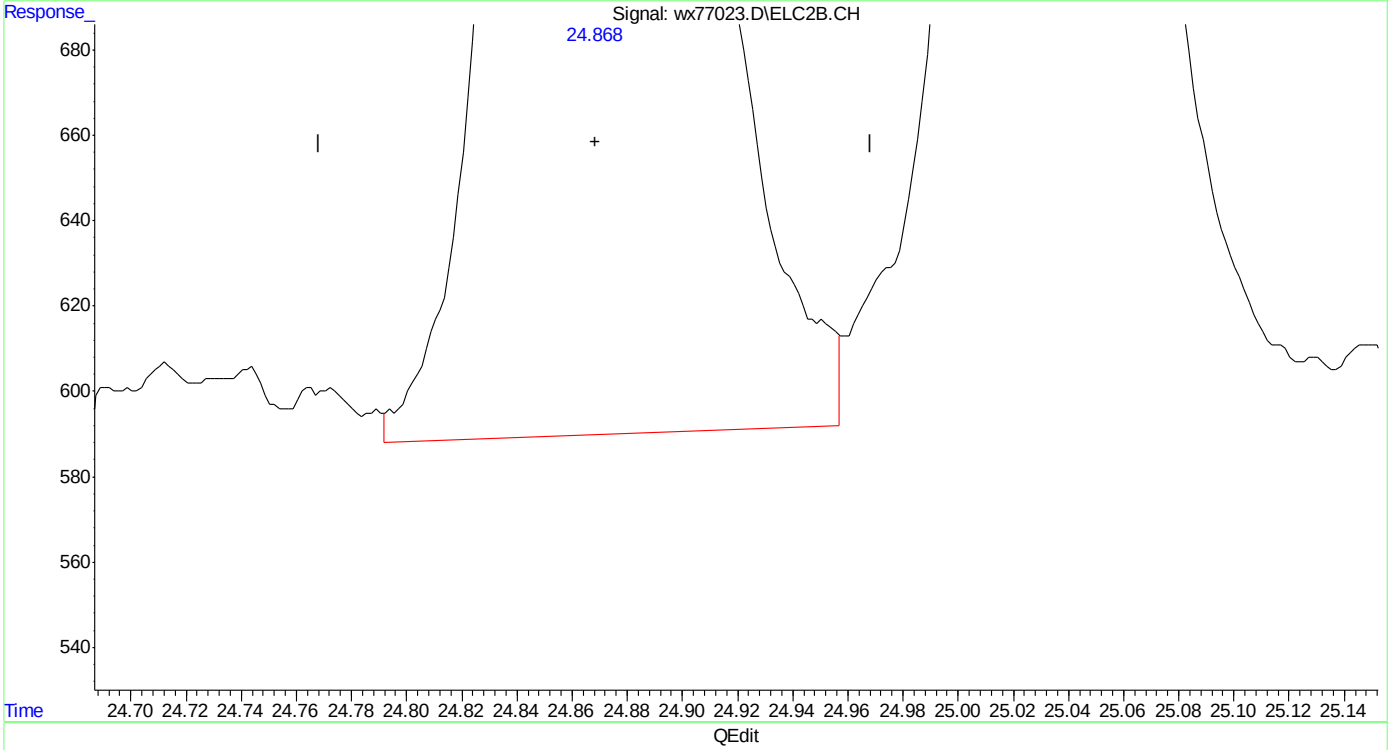
wx160602vphmaster.M Thu Jun 02 13:09:16 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.869min 2.112 ppb
response 26843

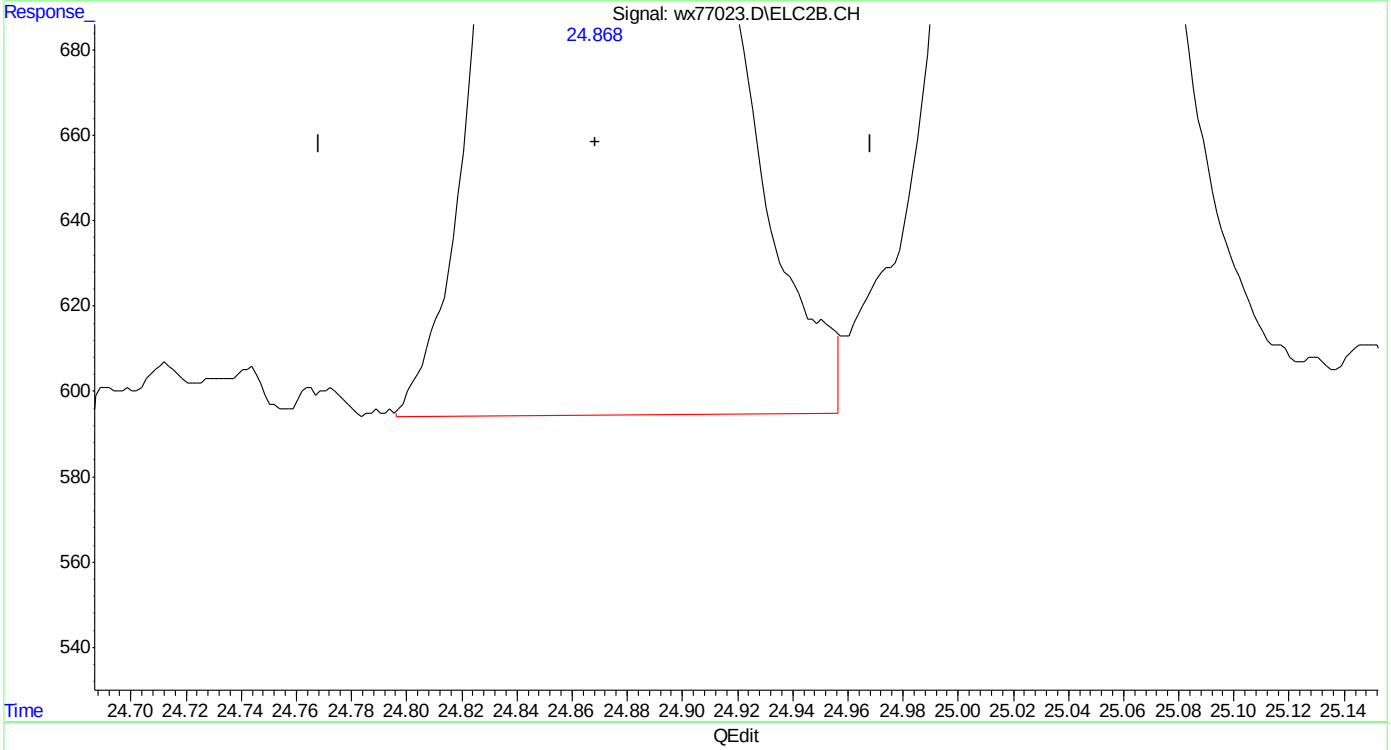
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.868min 2.080 ppb m
response 26438

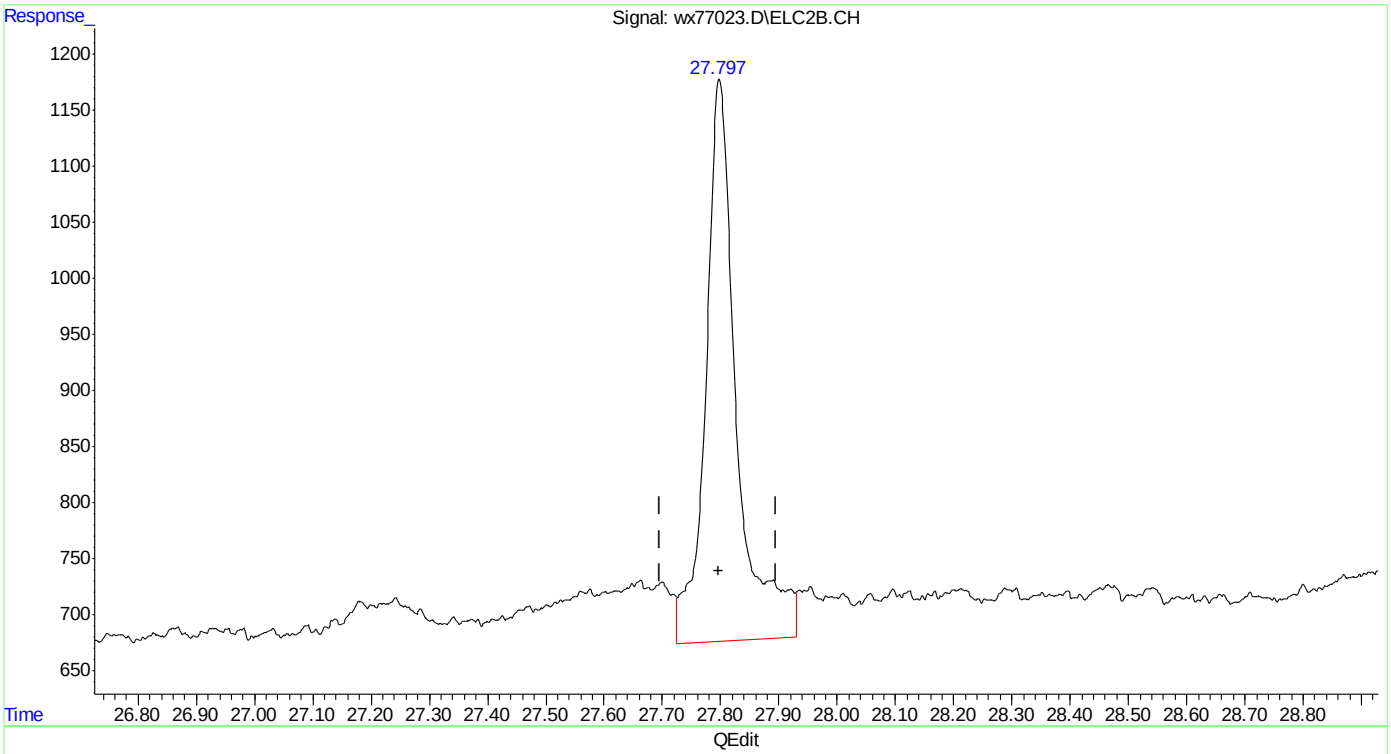
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:25 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 1.843 ppb
response 18368

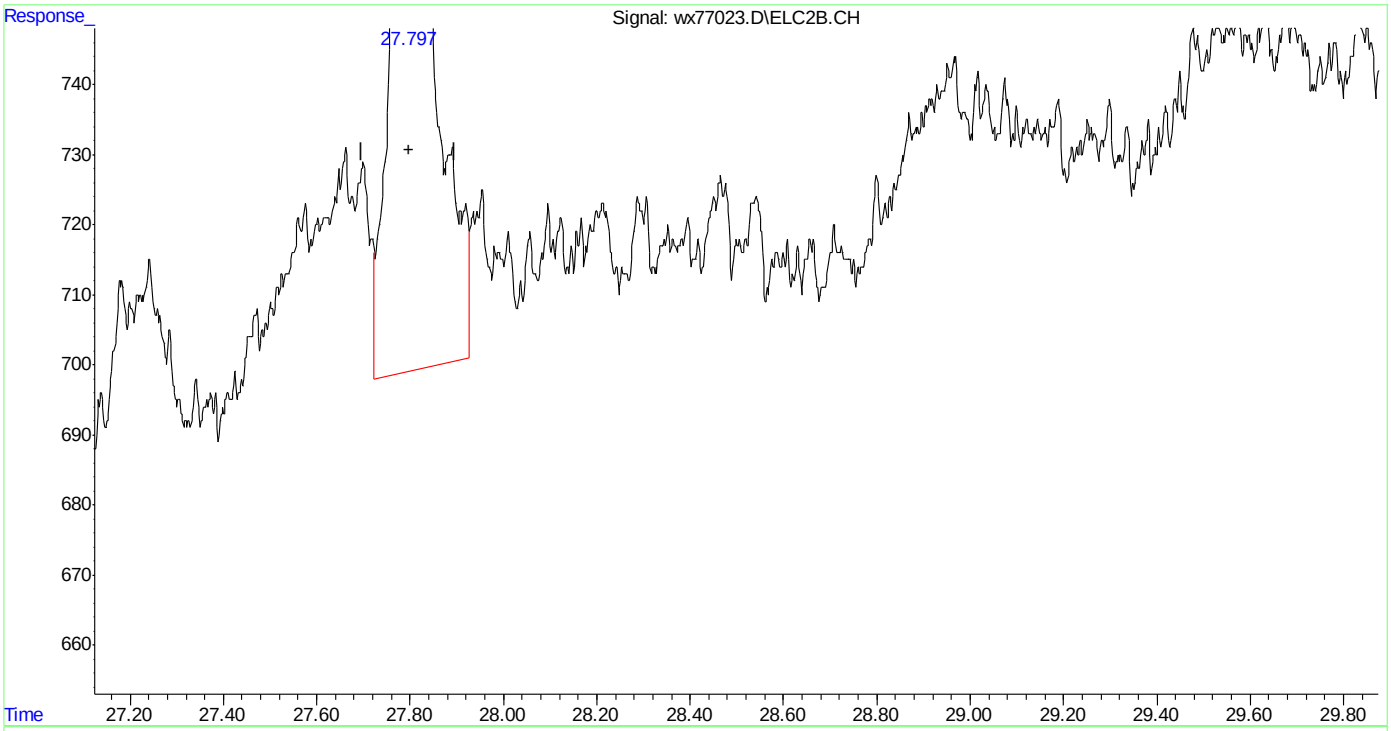
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 1.569 ppb m
response 15632

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:20:39 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.739	28429	1.011 ppb m
Spiked Amount 50.000		Recovery =	2.02%
9) s 2,3,4-trifluorotoluene	19.890	24092	1.047 ppb m
Spiked Amount 50.000		Recovery =	2.09%
25) s fluorobenzene #2	14.744	9835	1.087 ppb m
Spiked Amount 50.000		Recovery =	2.17%
27) s 2,3,4-trifluorotoluen...	19.869	6444	1.187 ppb m
Spiked Amount 50.000		Recovery =	2.37%
Target Compounds			
1) h rt5.5-7	6.100	22767	1.016 ppb
2) h rt7/10	8.370	31166	1.076 ppb
3) mtbe	9.211f	13081	0.991 ppb m
4) h rt10/13	13.510	27442	1.023 ppb
5) benzene	14.242	38017	1.070 ppb m
8) toluene	18.748	34687	0.992 ppb m
11) h rt20/25	21.600	49618	1.369 ppb
13) ethylbenzene	21.885	36321	1.051 ppb m
14) m,p-xylene	22.038	75684	2.123 ppb
15) o-xylene	22.839	38750	1.093 ppb m
16) h Decane	23.990	46841	1.259 ppb
17) t 1,3,5-trimethylbenzene	24.339	41000	1.096 ppb m
18) 1,2,4-trimethylbenzene	24.868	38112	1.063 ppb m
19) h Butylcyclohexane	25.040	51203	1.319 ppb
20) naphthalene	27.797	10975	0.595 ppb m
23) mtbe #2	9.191f	5014	1.108 ppb m
24) benzene #2	14.245	14757	1.032 ppb m
26) toluene #2	18.749	13020	1.002 ppb m
28) ethylbenzene #2	21.886	12133	1.051 ppb m
29) m,p-xylene #2	22.034	29316	2.080 ppb m
30) o-xylene #2	22.842	12350	1.058 ppb m
31) t 1,3,5-trimethylbenzen...	24.341	19048	1.099 ppb m
32) 1,2,4-trimethylbenzen...	24.870	14313	1.117 ppb m
33) naphthalene #2	27.797	6835	0.717 ppb m
34) h c9-c10 arom as 1,2,4-tmb	24.870	14324	1.119 ppb

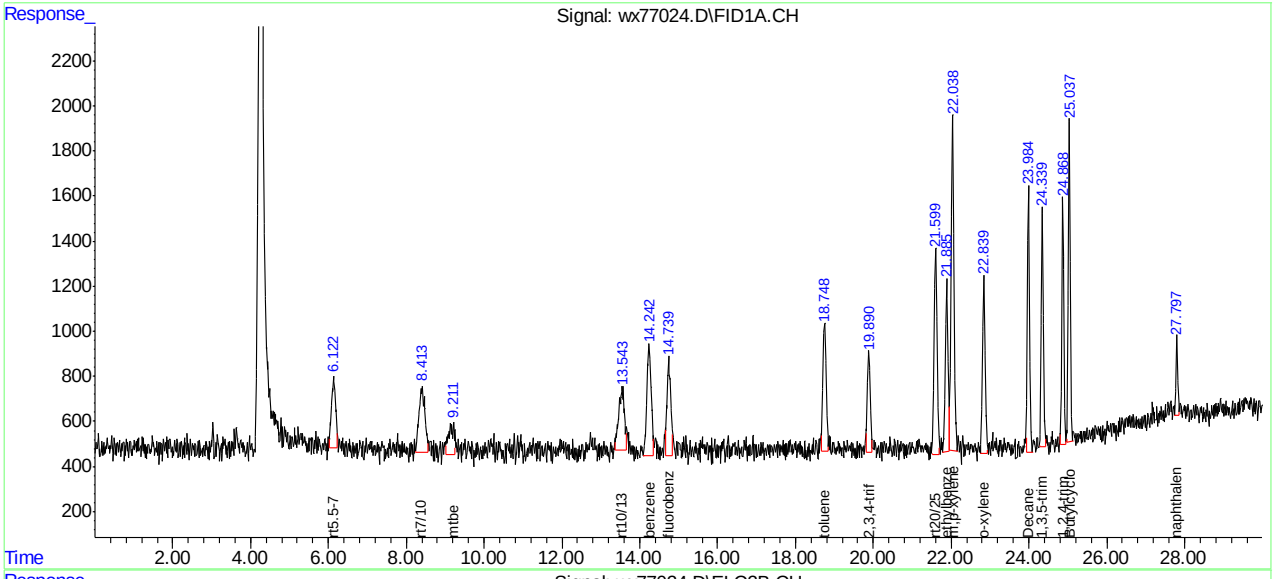
(f)=RT Delta > 1/2 Window (m)=manual int.

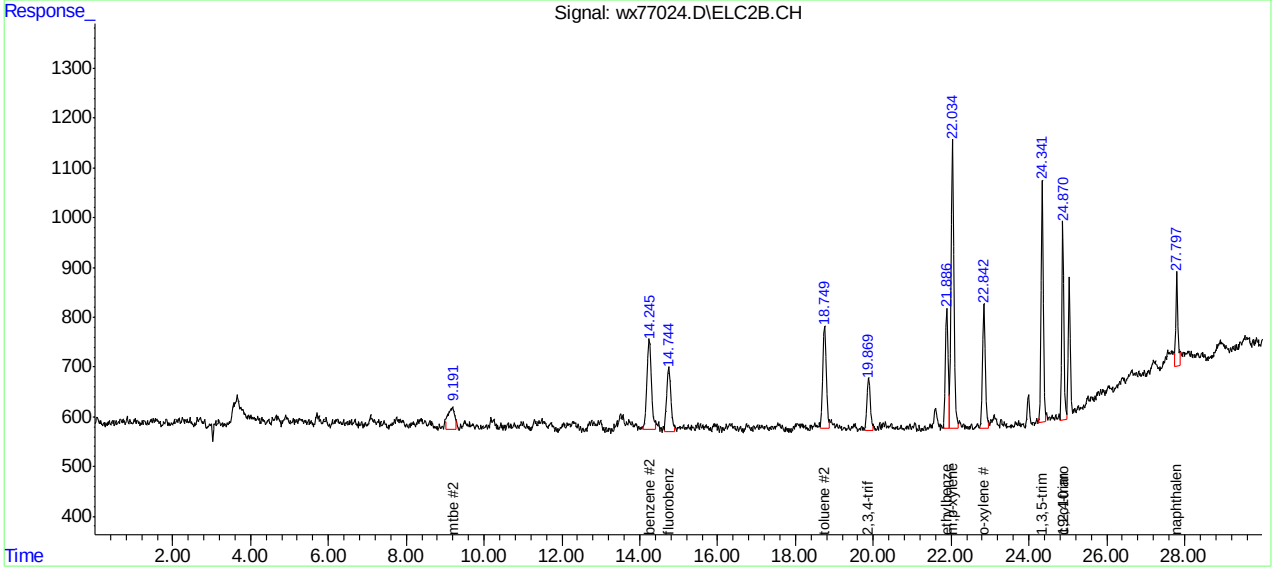
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

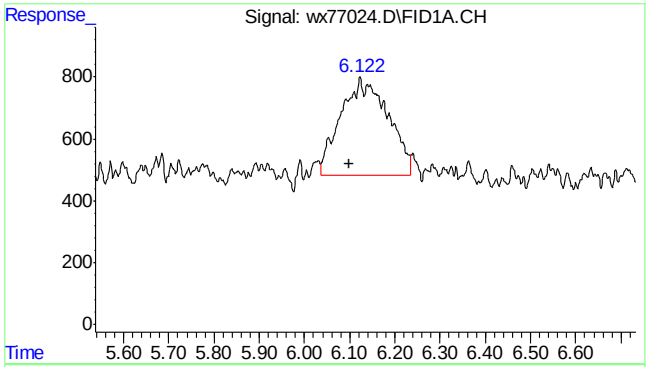
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:20:39 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



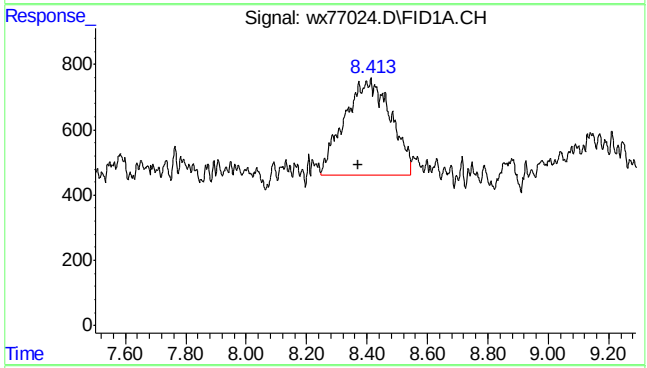


SGS ACCUTEST MC46340



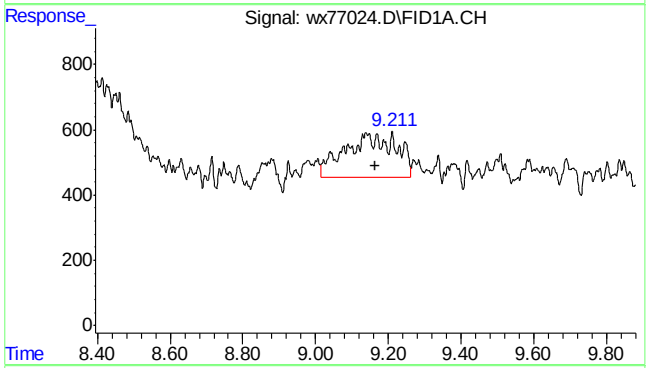
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 22767
Conc: 1.02 ppb m



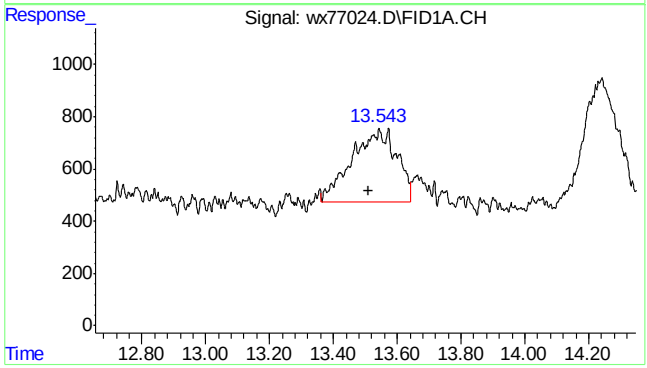
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 31166
Conc: 1.08 ppb m



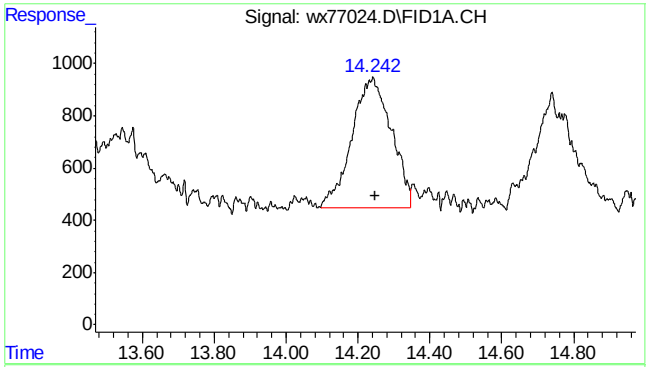
#3 mtbe

R.T.: 9.211 min
Delta R.T.: 0.045 min
Response: 13081
Conc: 0.99 ppb m



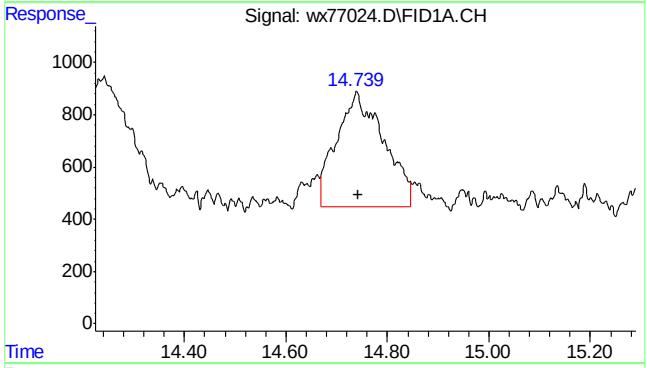
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 27442
Conc: 1.02 ppb m



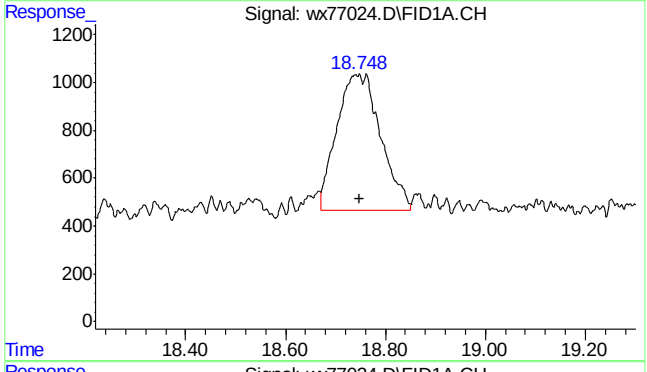
#5 benzene

R.T.: 14.242 min
Delta R.T.: -0.005 min
Response: 38017
Conc: 1.07 ppb m



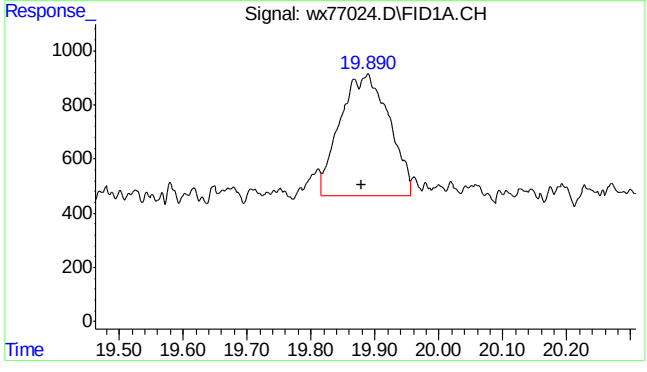
#6 fluorobenzene

R.T.: 14.739 min
Delta R.T.: -0.004 min
Response: 28429
Conc: 1.01 ppb m



#8 toluene

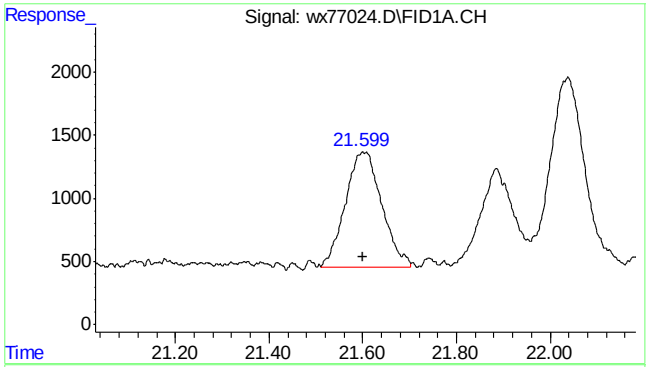
R.T.: 18.748 min
Delta R.T.: 0.000 min
Response: 34687
Conc: 0.99 ppb m



#9 2,3,4-trifluorotoluene

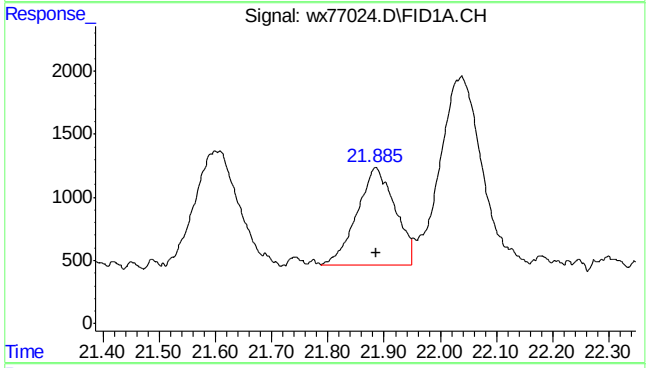
R.T.: 19.890 min
Delta R.T.: 0.010 min
Response: 24092
Conc: 1.05 ppb m

SGS ACCUTEST MC46340



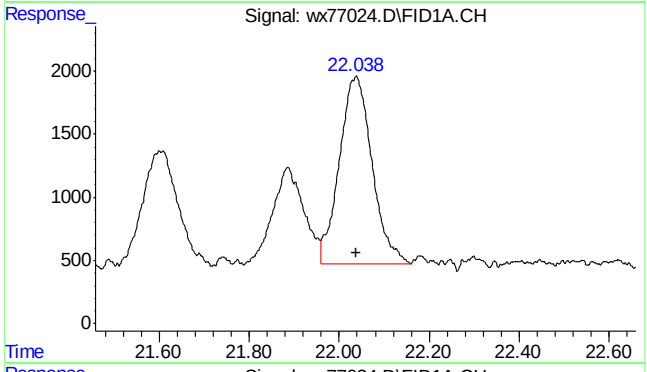
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 49618
Conc: 1.37 ppb m



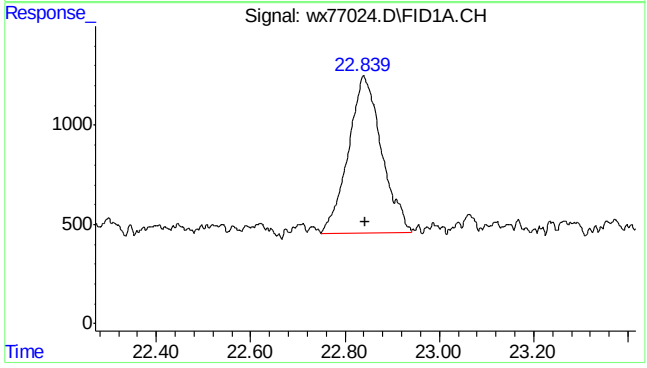
#13 ethylbenzene

R.T.: 21.885 min
Delta R.T.: -0.002 min
Response: 36321
Conc: 1.05 ppb m



#14 m,p-xylene

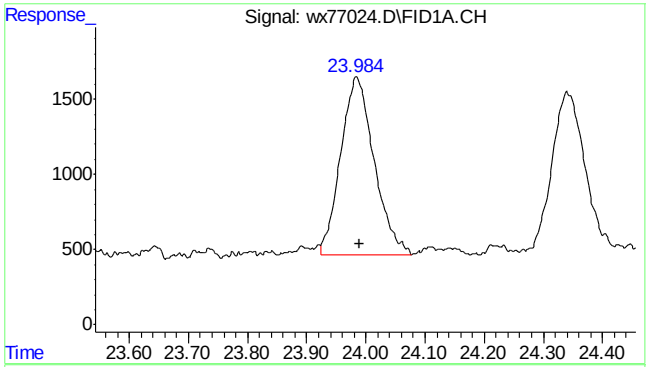
R.T.: 22.038 min
Delta R.T.: 0.002 min
Response: 75684
Conc: 2.12 ppb



#15 o-xylene

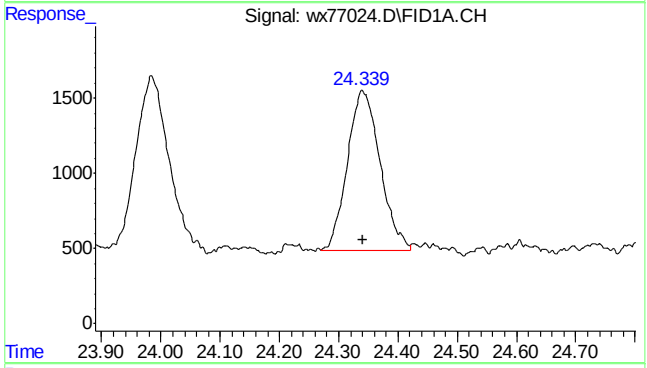
R.T.: 22.839 min
Delta R.T.: -0.004 min
Response: 38750
Conc: 1.09 ppb m

SGS ACCUTEST MC46340



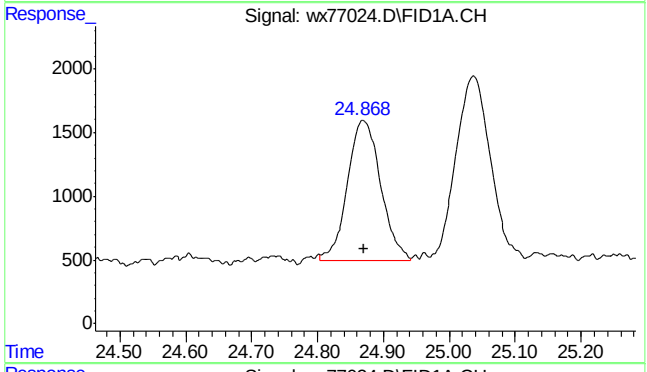
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 46841
Conc: 1.26 ppb m



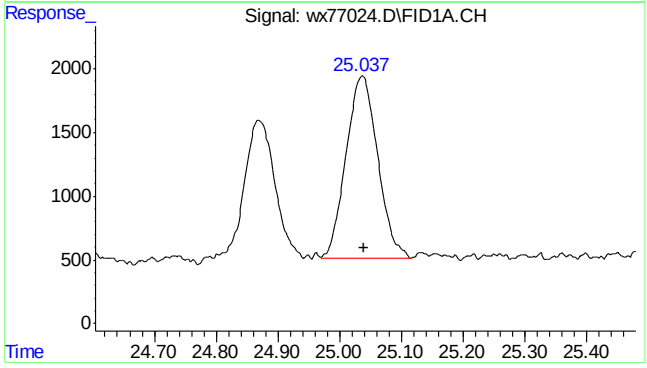
#17 1,3,5-trimethylbenzene

R.T.: 24.339 min
Delta R.T.: -0.003 min
Response: 41000
Conc: 1.10 ppb m



#18 1,2,4-trimethylbenzene

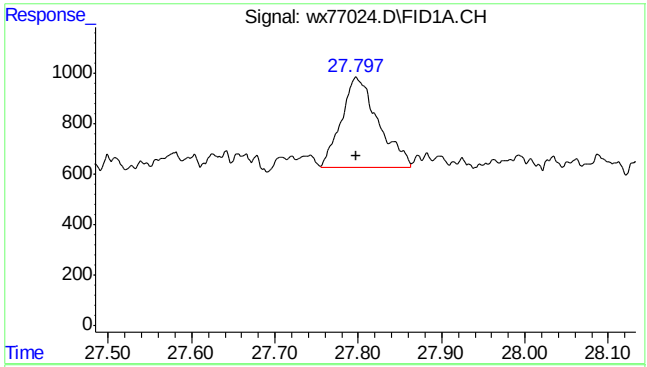
R.T.: 24.868 min
Delta R.T.: -0.002 min
Response: 38112
Conc: 1.06 ppb m



#19 Butylcyclohexane

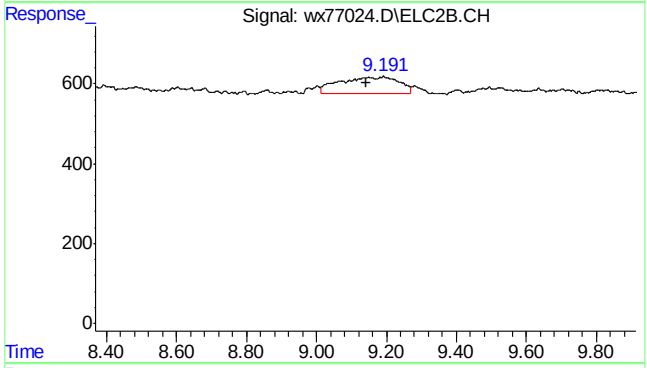
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 51203
Conc: 1.32 ppb m

SGS ACCUTEST MC46340



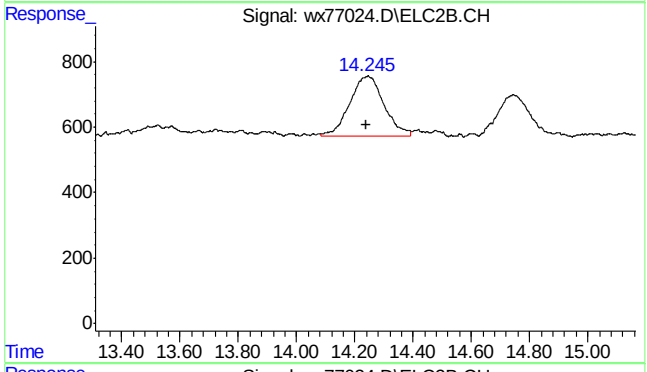
#20 naphthalene

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 10975
Conc: 0.60 ppb m



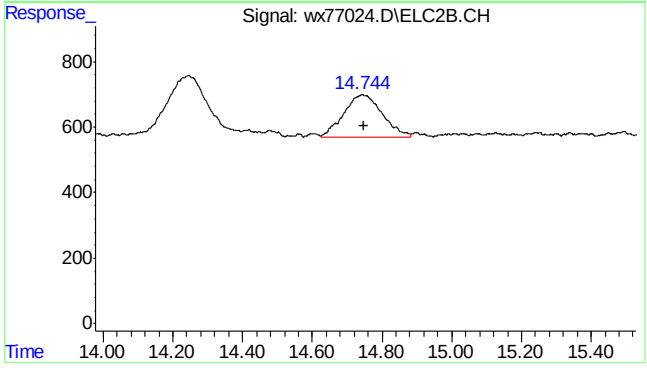
#23 mtbe #2

R.T.: 9.191 min
Delta R.T.: 0.050 min
Response: 5014
Conc: 1.11 ppb m



#24 benzene #2

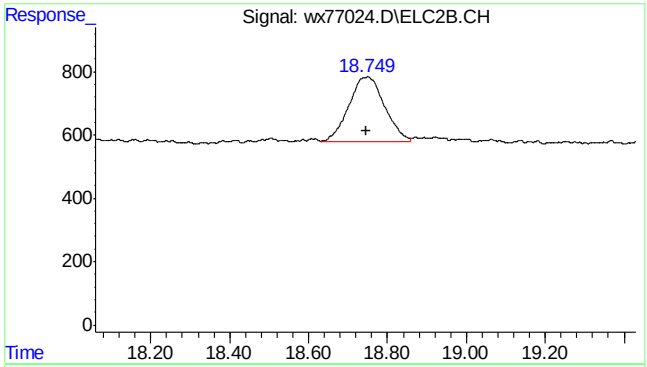
R.T.: 14.245 min
Delta R.T.: 0.005 min
Response: 14757
Conc: 1.03 ppb m



#25 fluorobenzene #2

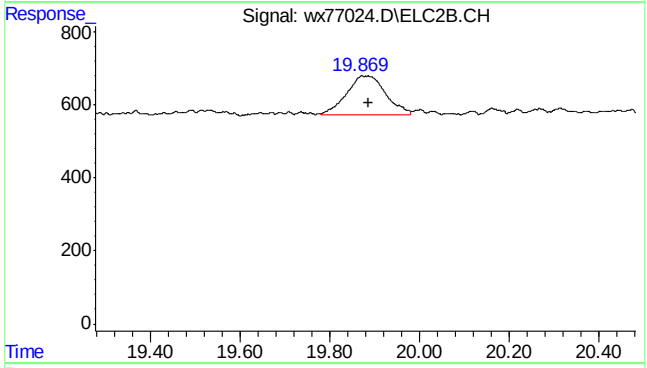
R.T.: 14.744 min
Delta R.T.: -0.004 min
Response: 9835
Conc: 1.09 ppb m

SGS ACCUTEST MC46340



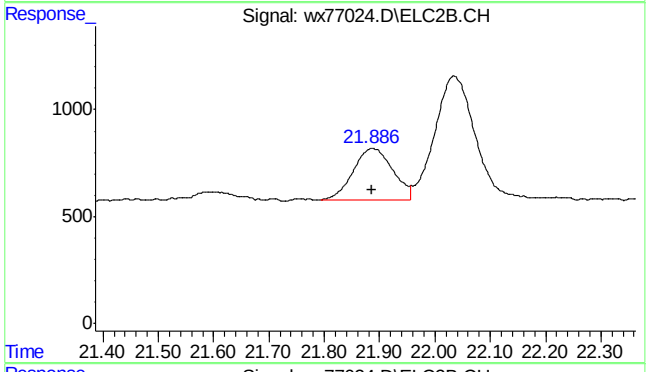
#26 toluene #2

R.T.: 18.749 min
Delta R.T.: 0.003 min
Response: 13020
Conc: 1.00 ppb m



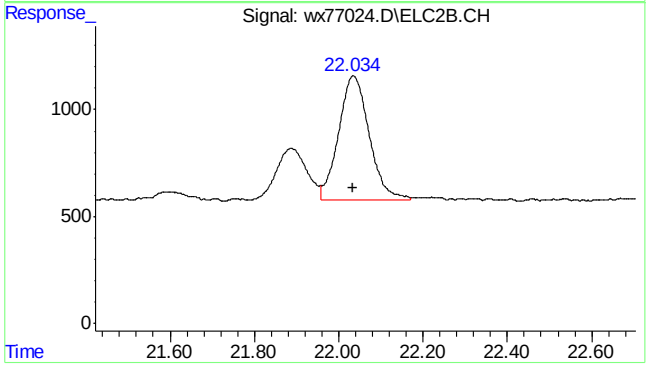
#27 2,3,4-trifluorotoluene #2

R.T.: 19.869 min
Delta R.T.: -0.016 min
Response: 6444
Conc: 1.19 ppb m



#28 ethylbenzene #2

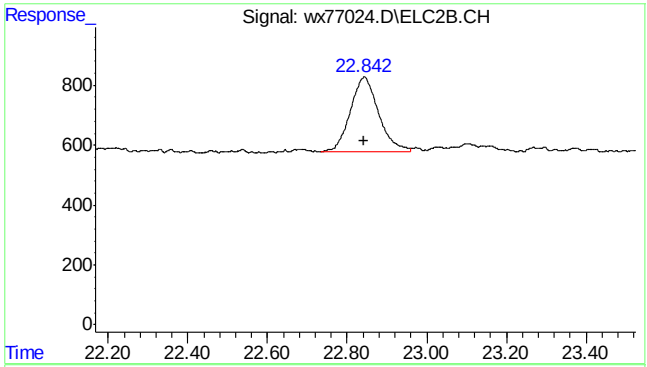
R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 12133
Conc: 1.05 ppb m



#29 m,p-xylene #2

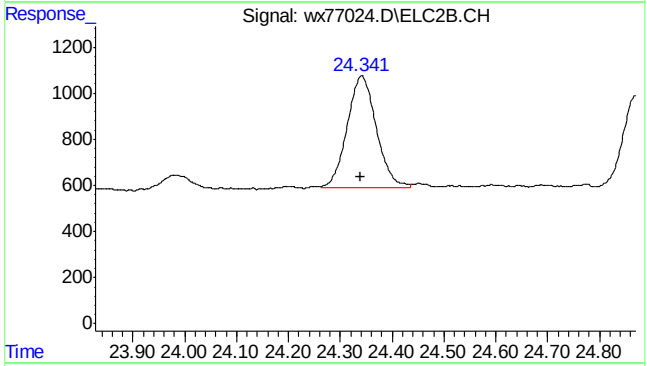
R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 29316
Conc: 2.08 ppb m

SGS ACCUTEST MC46340



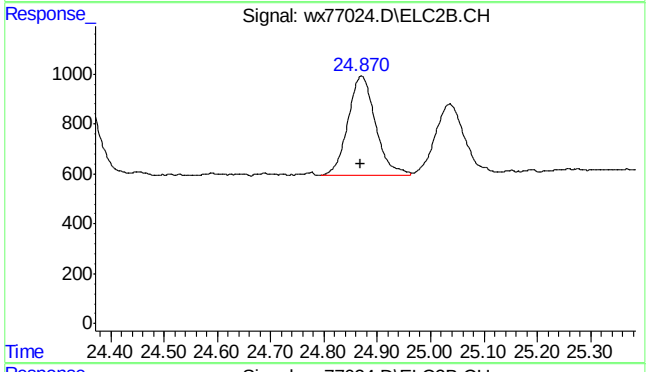
#30 o-xylene #2

R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 12350
Conc: 1.06 ppb m



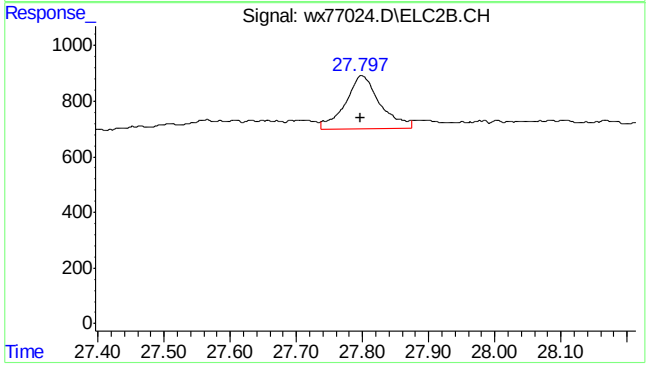
#31 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 19048
Conc: 1.10 ppb m



#32 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.002 min
Response: 14313
Conc: 1.12 ppb m



#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 6835
Conc: 0.72 ppb m

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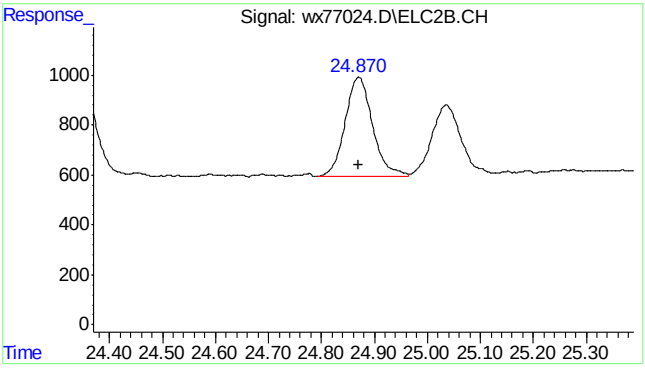

#34 c9-c10 arom as 1,2,4-tmb

R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	14324
Conc:	1.12 ppb m

7.5.9

7

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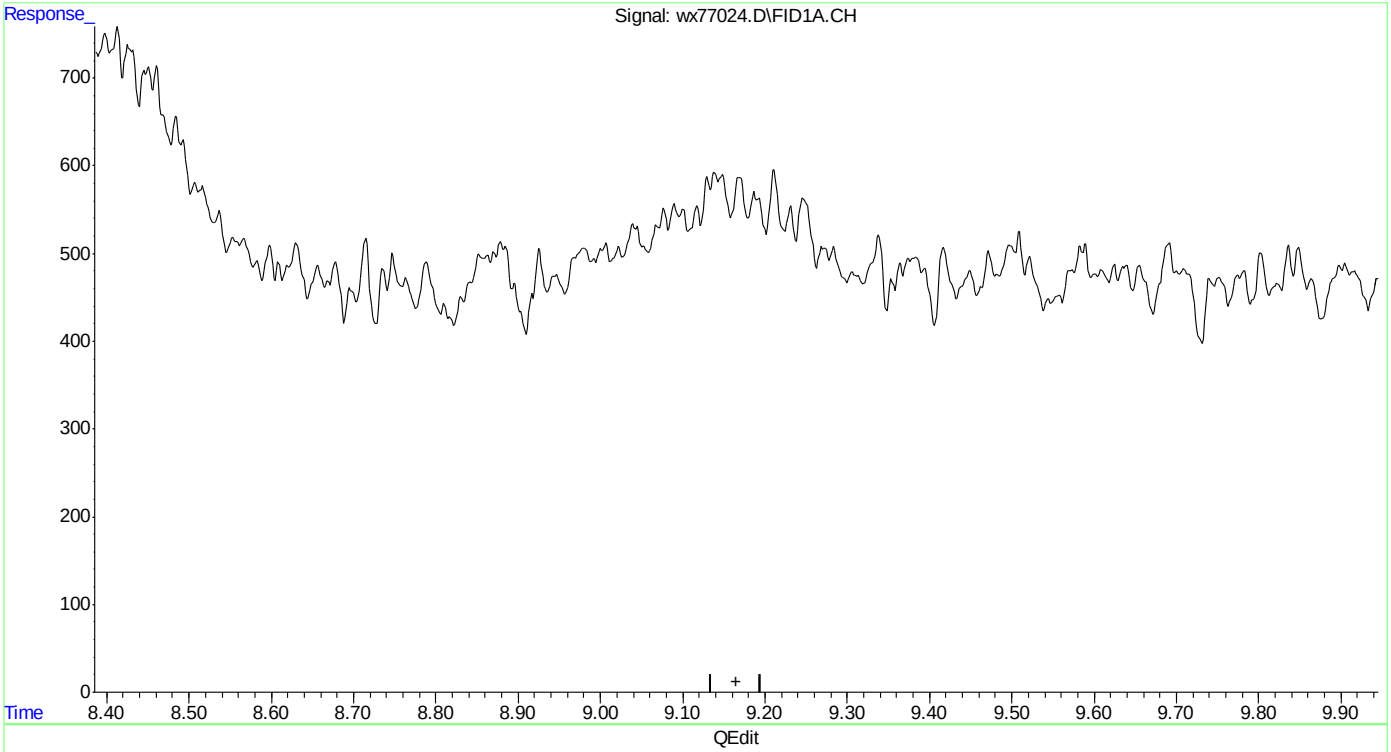
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.165min 0.000 ppb
response 0

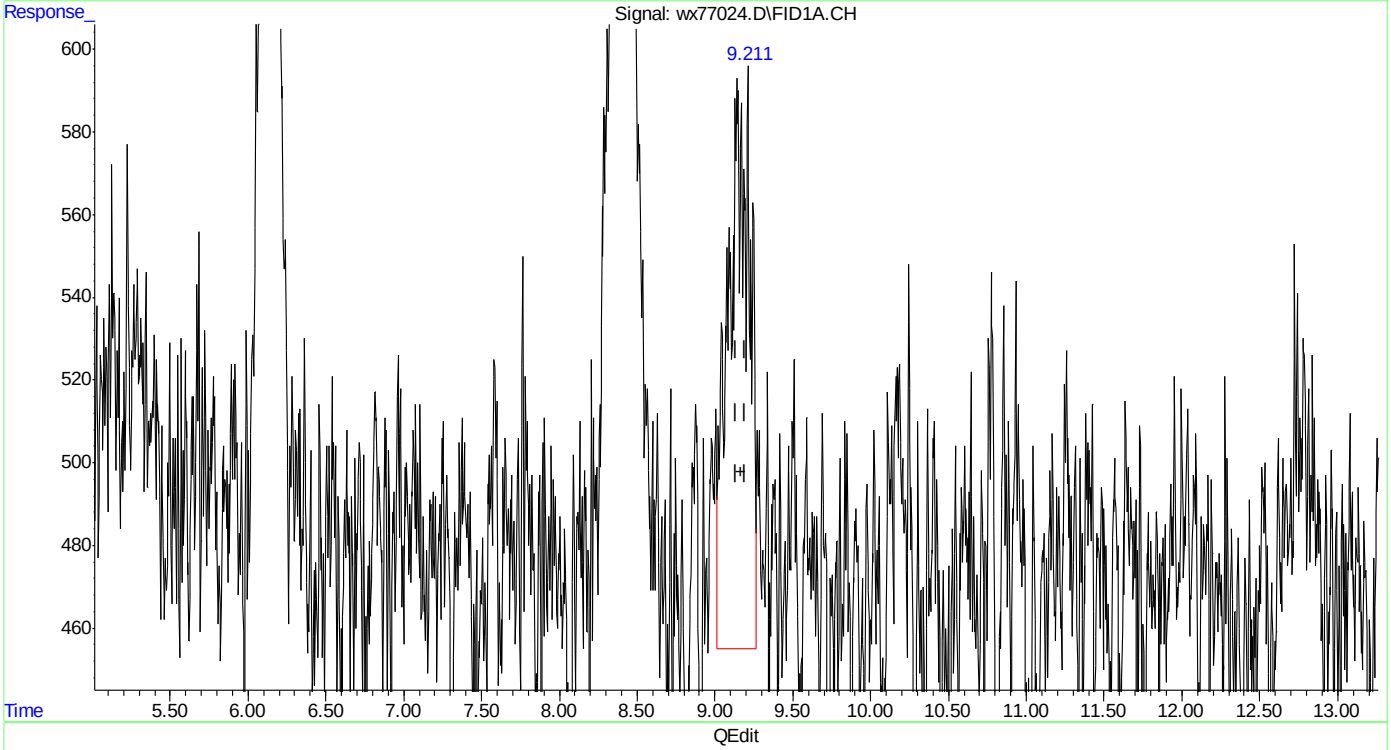
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:11:38 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.211min 0.991 ppb m
response 13081

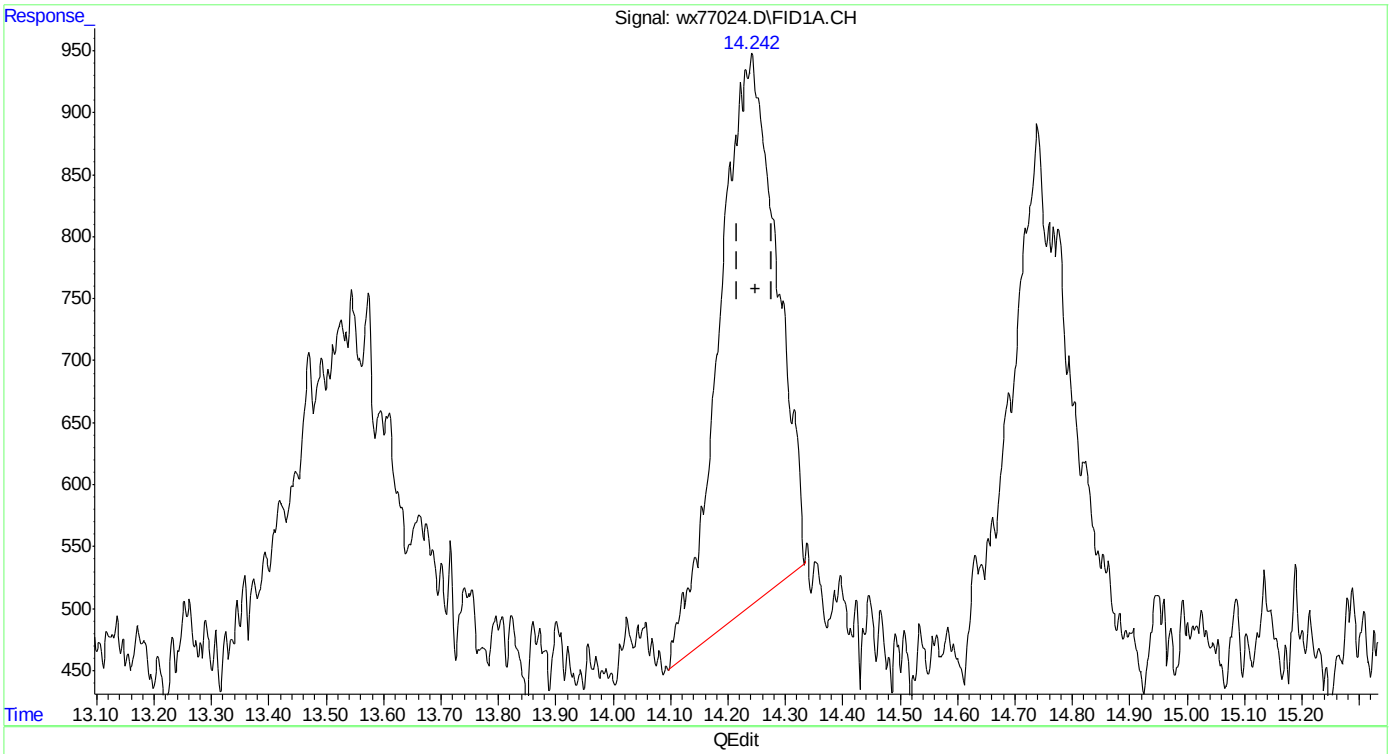
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:09 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.242min 0.866 ppb
response 30766

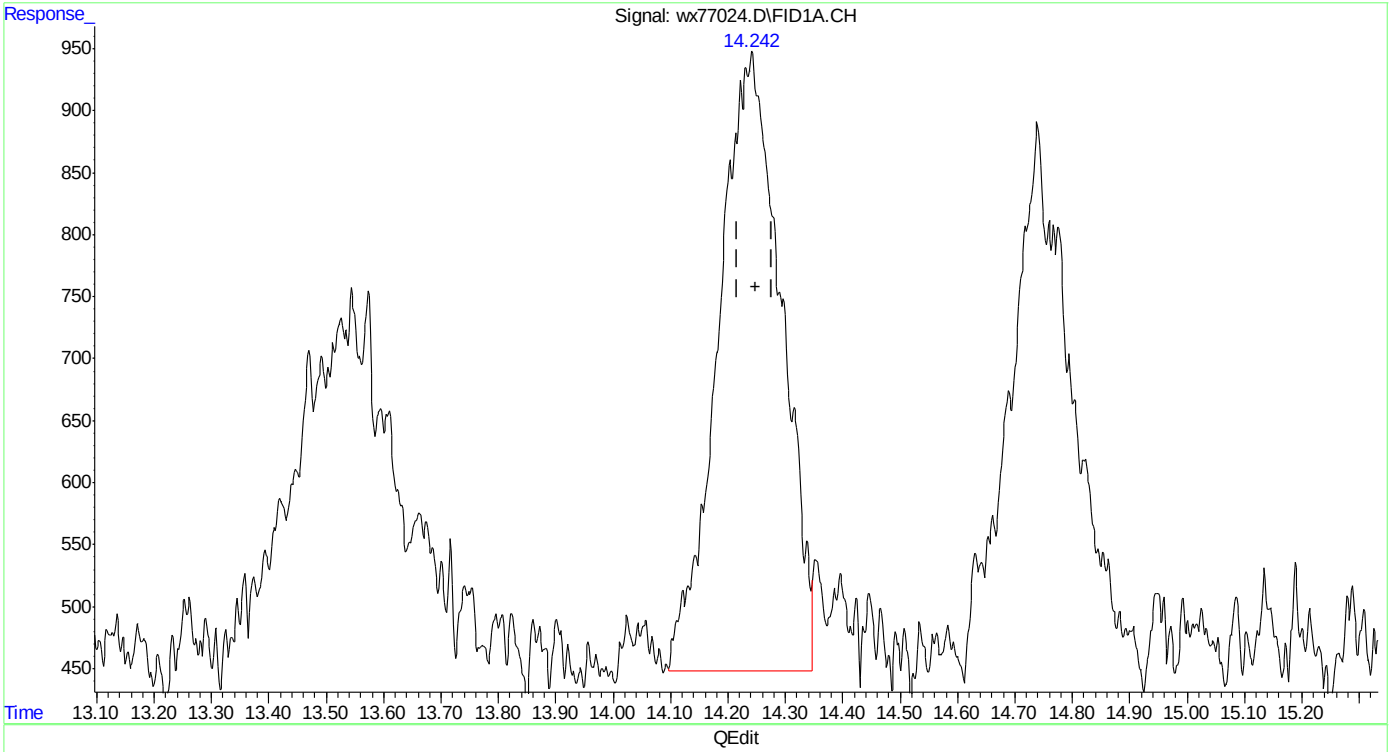
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.242min 1.070 ppb m
response 38017

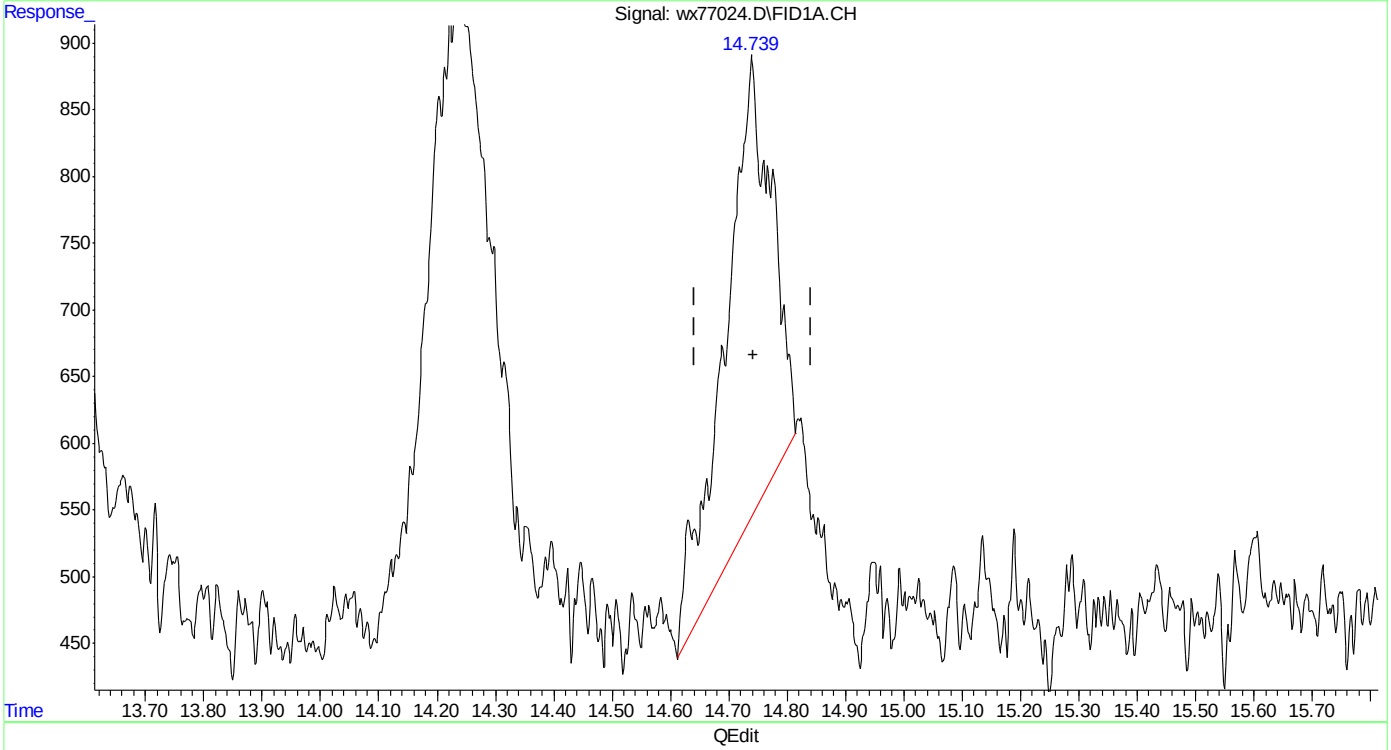
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.740min 0.685 ppb
response 19274

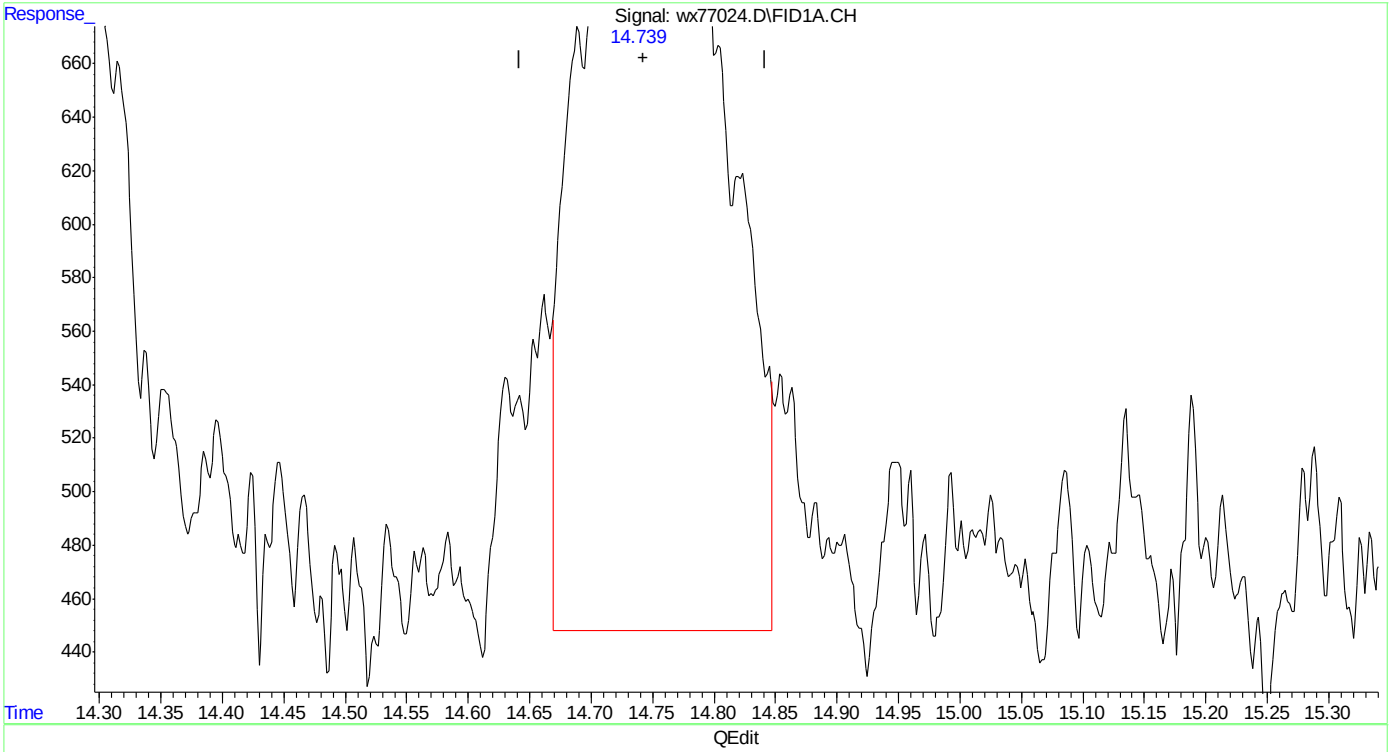
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.739min 1.011 ppb m
response 28429

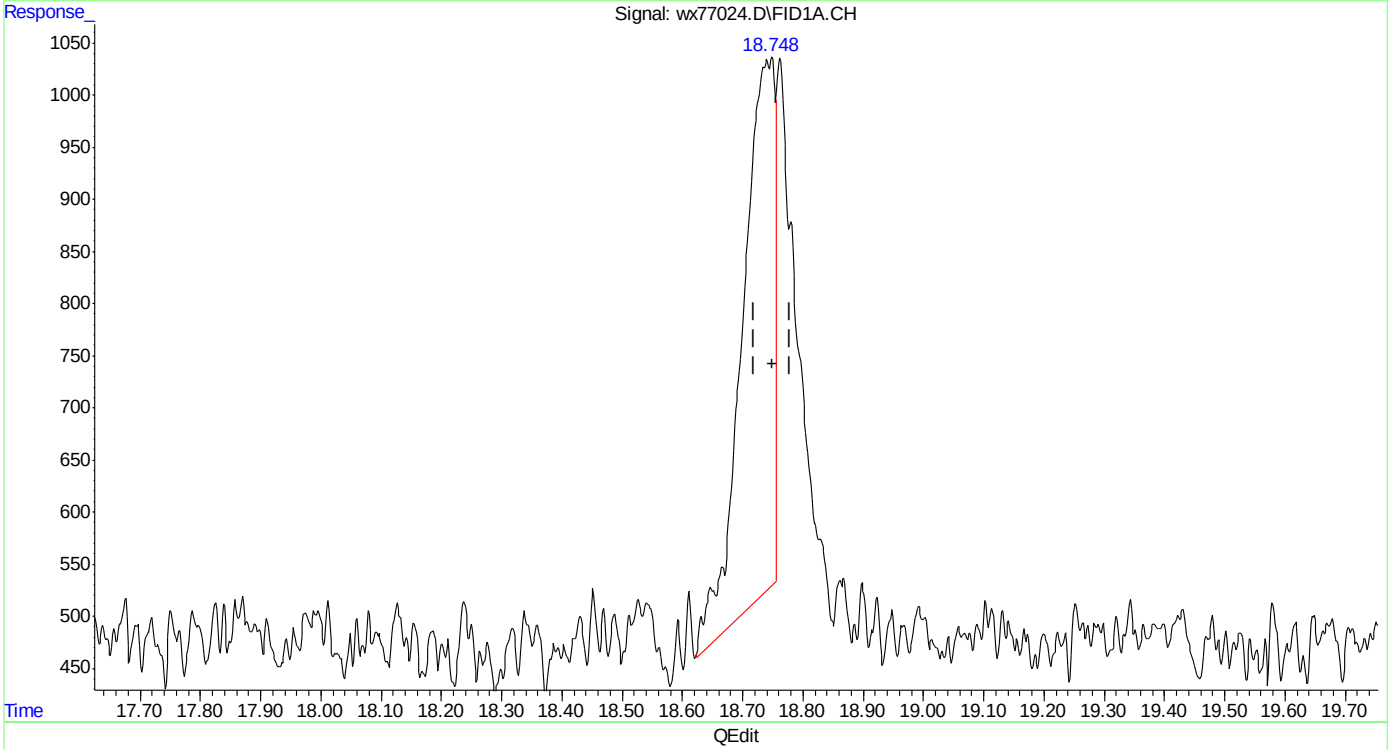
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:04 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.749min 0.538 ppb
response 18812

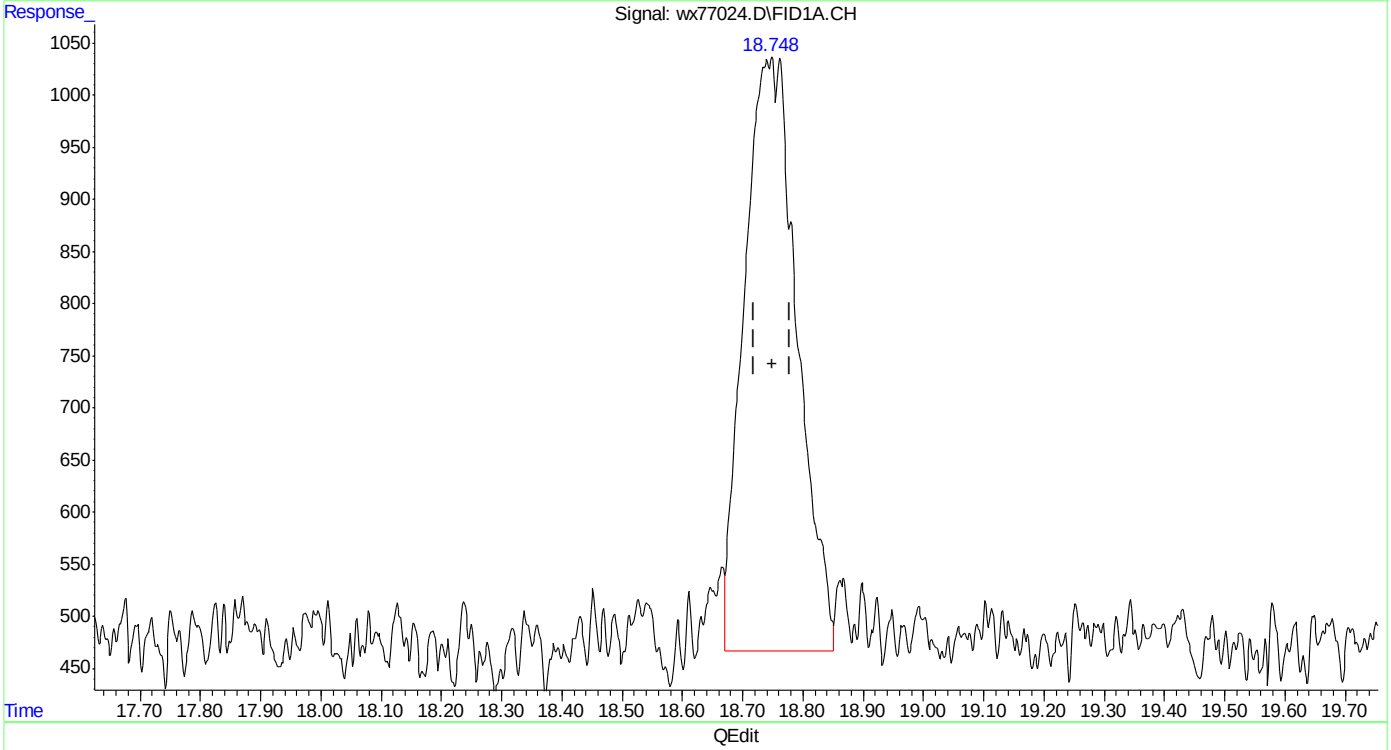
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:11 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.748min 0.992 ppb m
response 34687

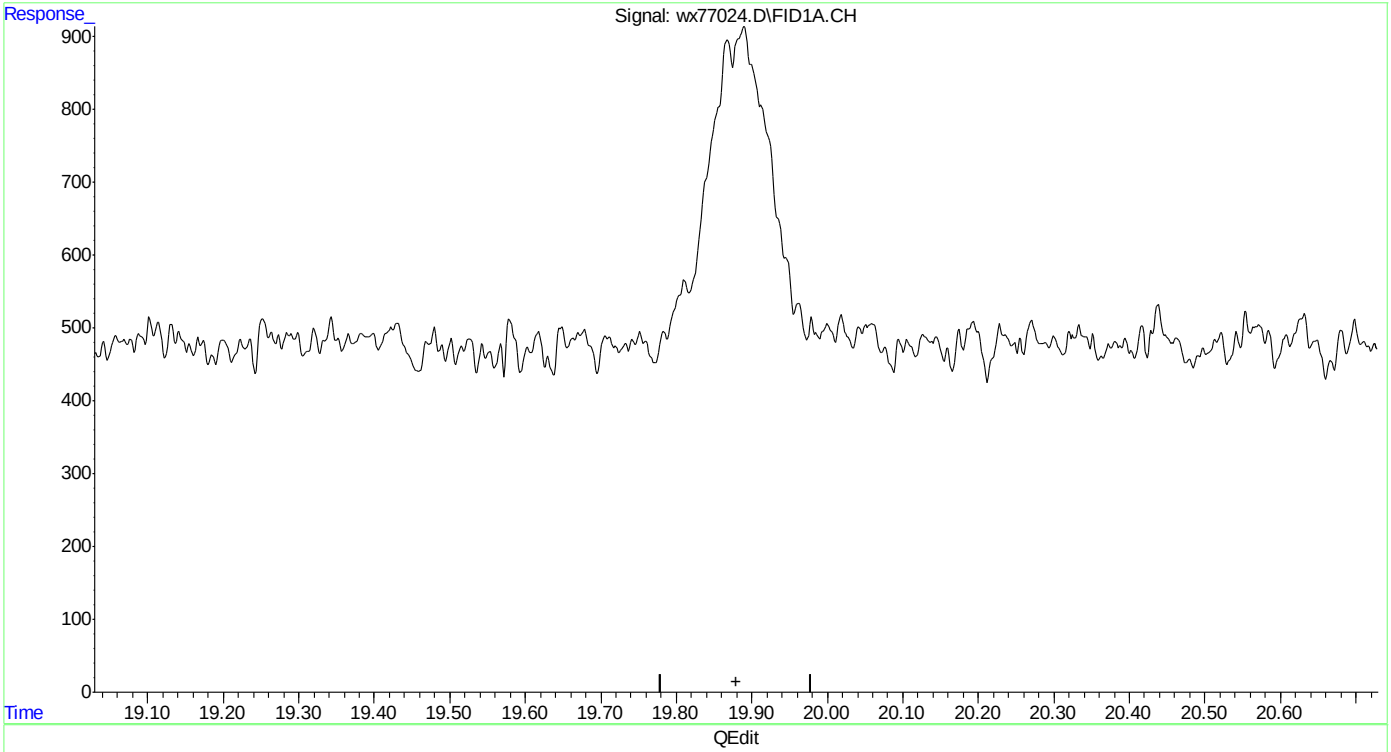
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:17 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.880min 0.000 ppb
response 0

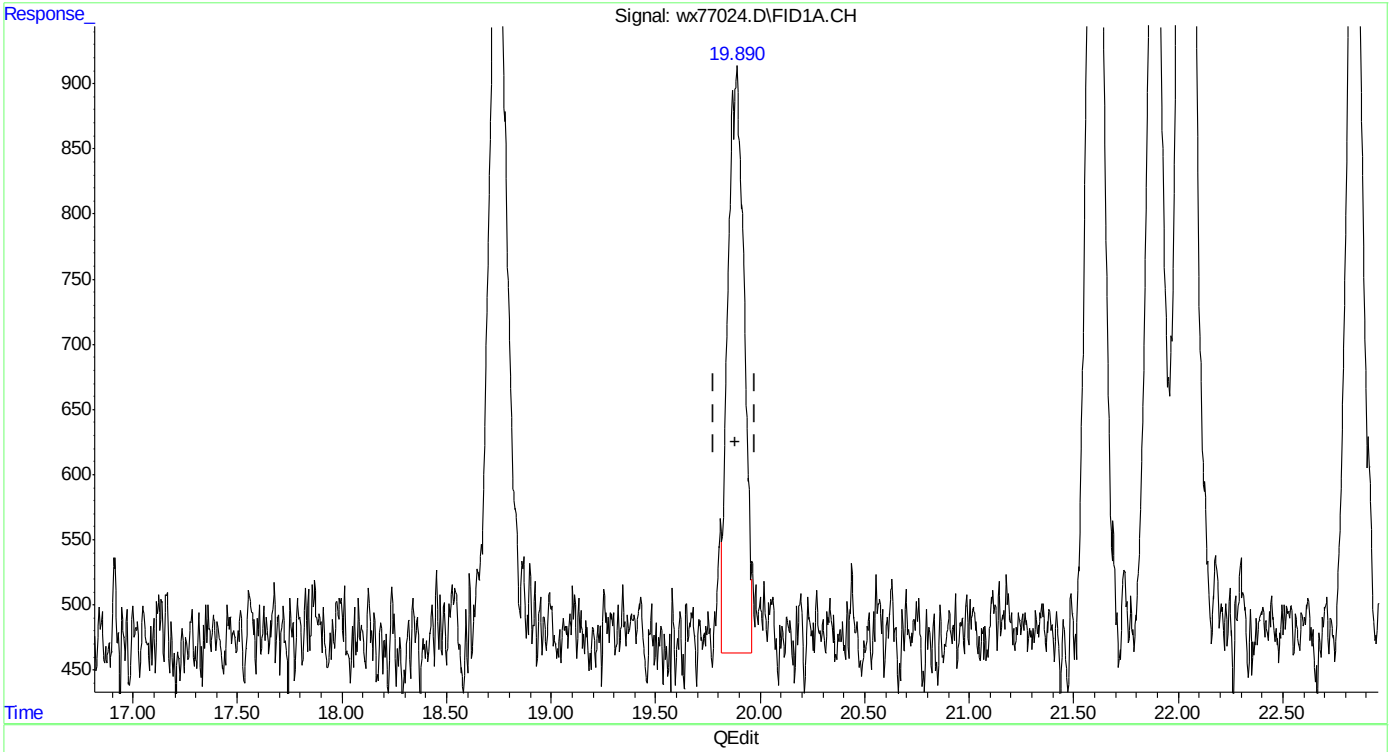
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.890min 1.047 ppb m
response 24092

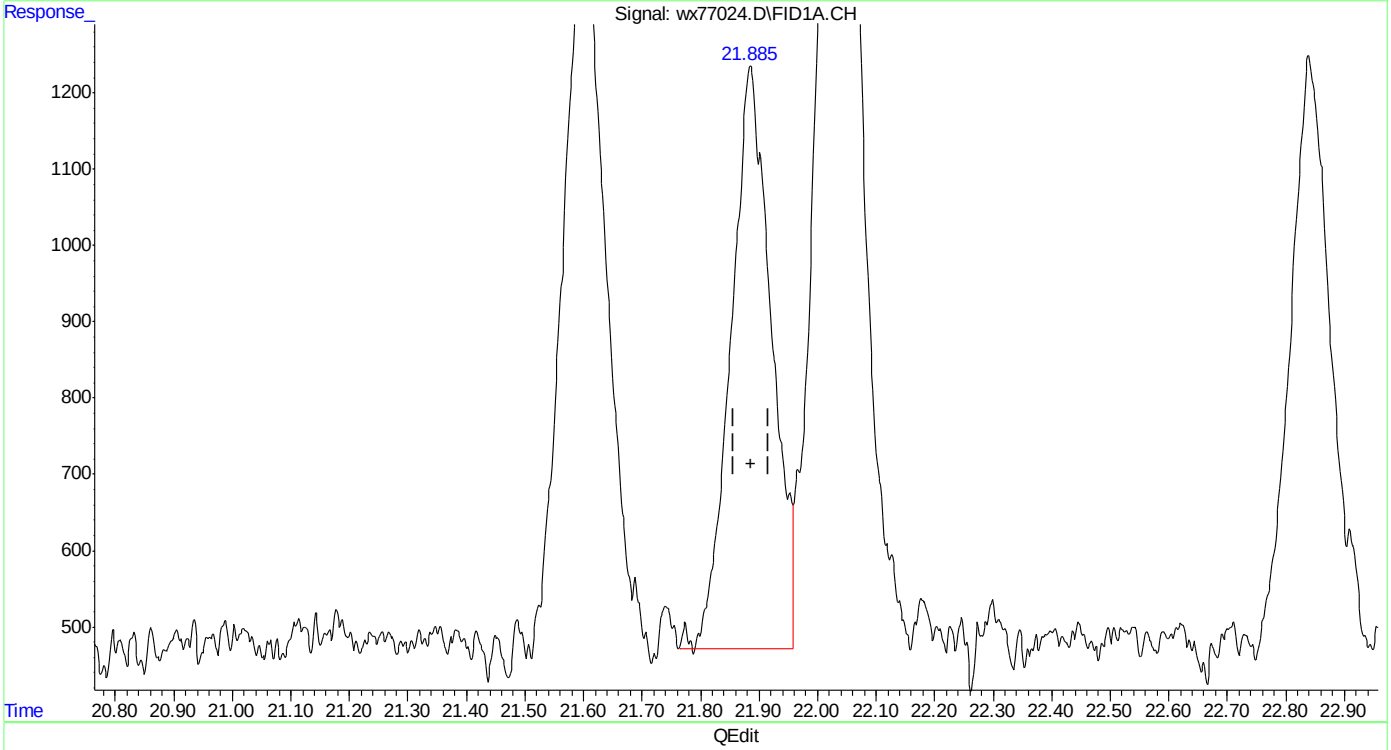
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:42 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.885min 1.070 ppb
response 36997

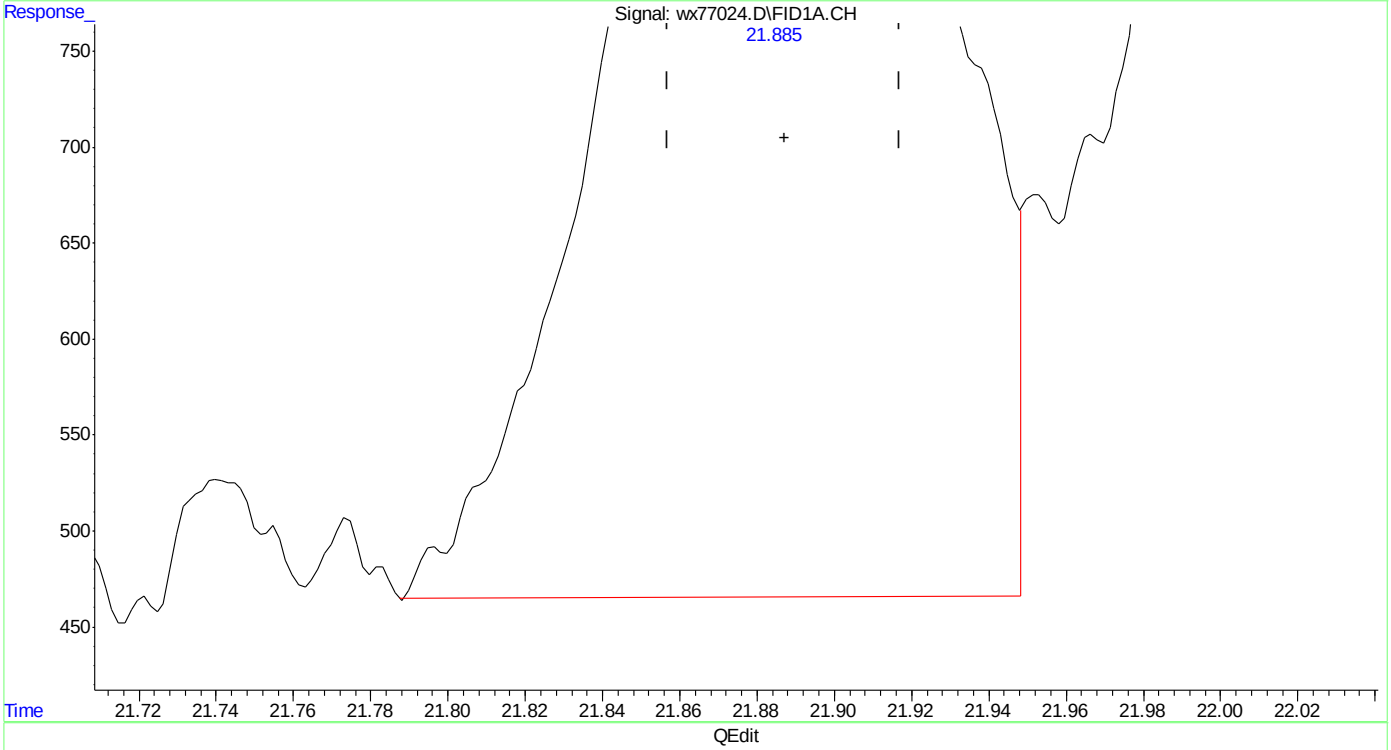
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:02 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene

21.885min 1.051 ppb m

response 36321

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:14:12 2016

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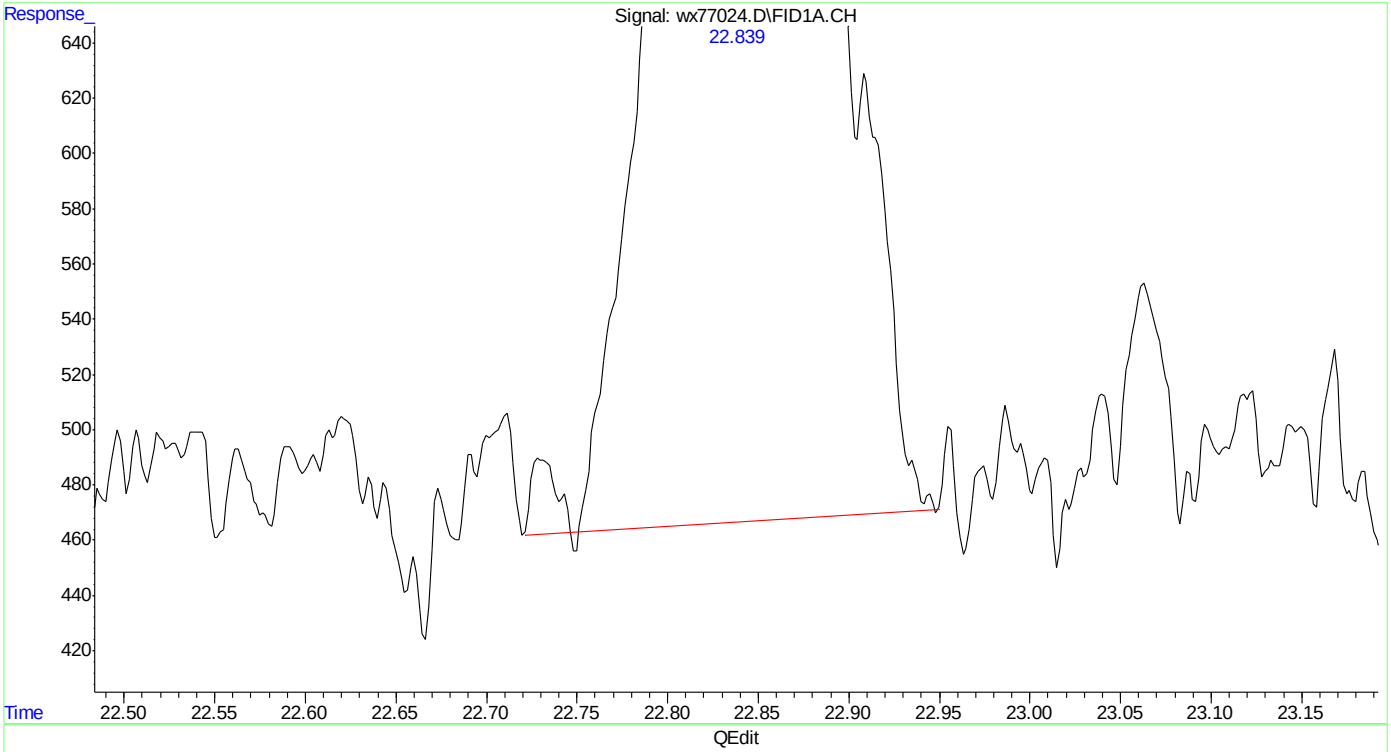
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.839min 1.070 ppb
response 37948

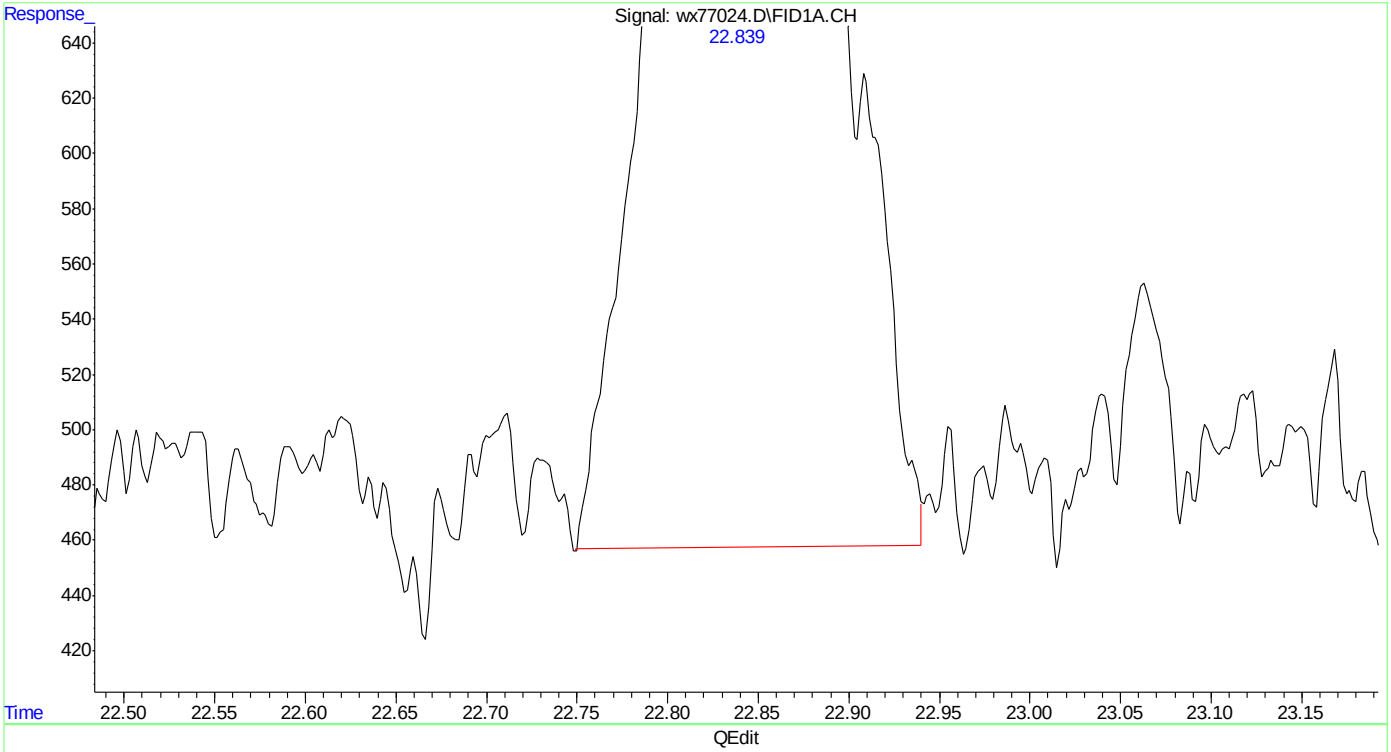
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:19 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.839min 1.093 ppb m
response 38750

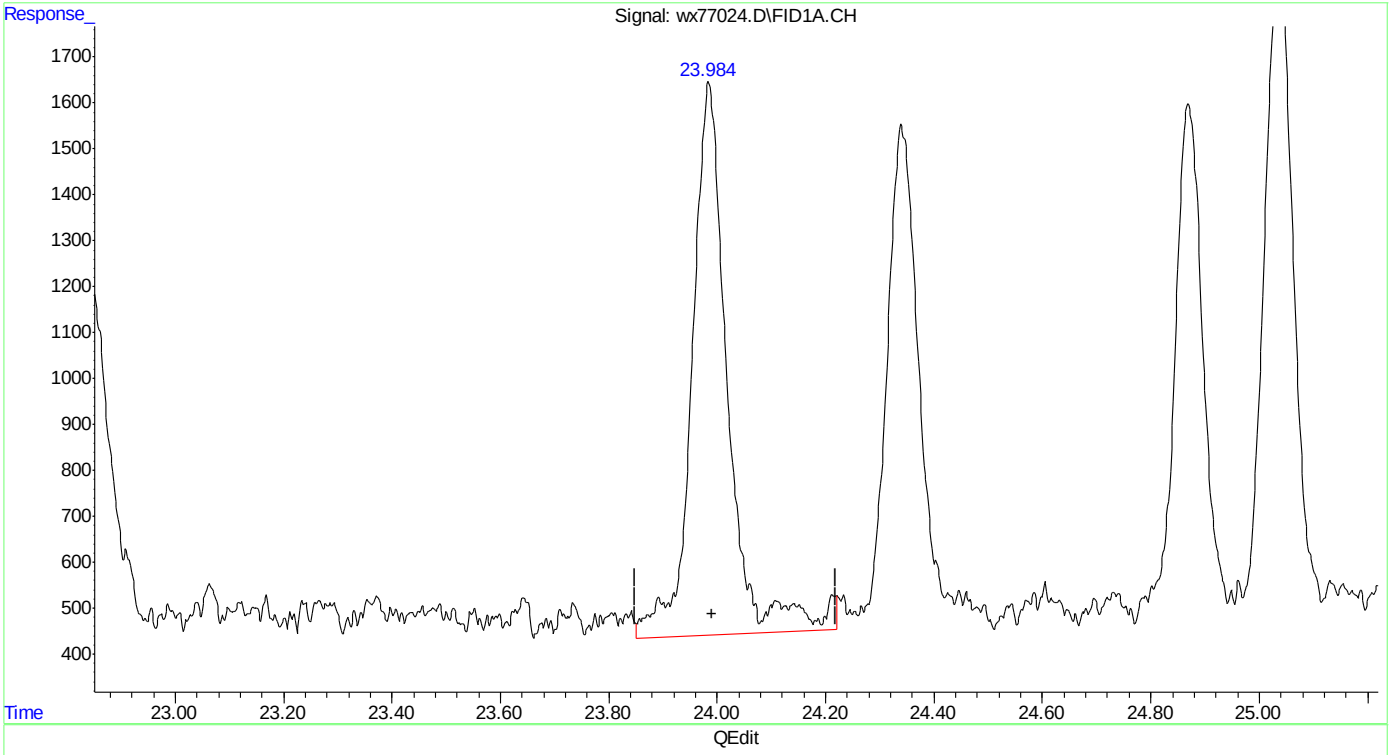
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:24 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 1.487 ppb
response 55327

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:28 2016

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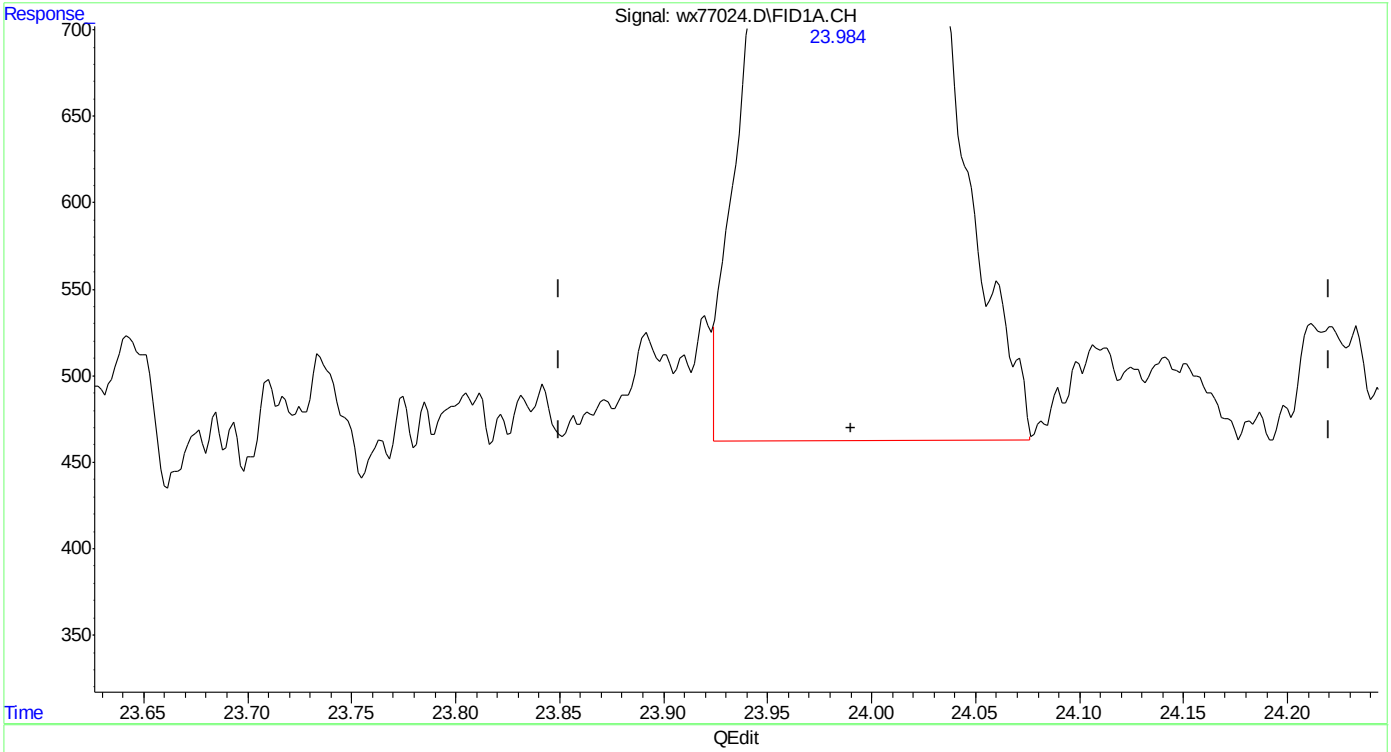
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 1.259 ppb m
response 46841

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:34 2016

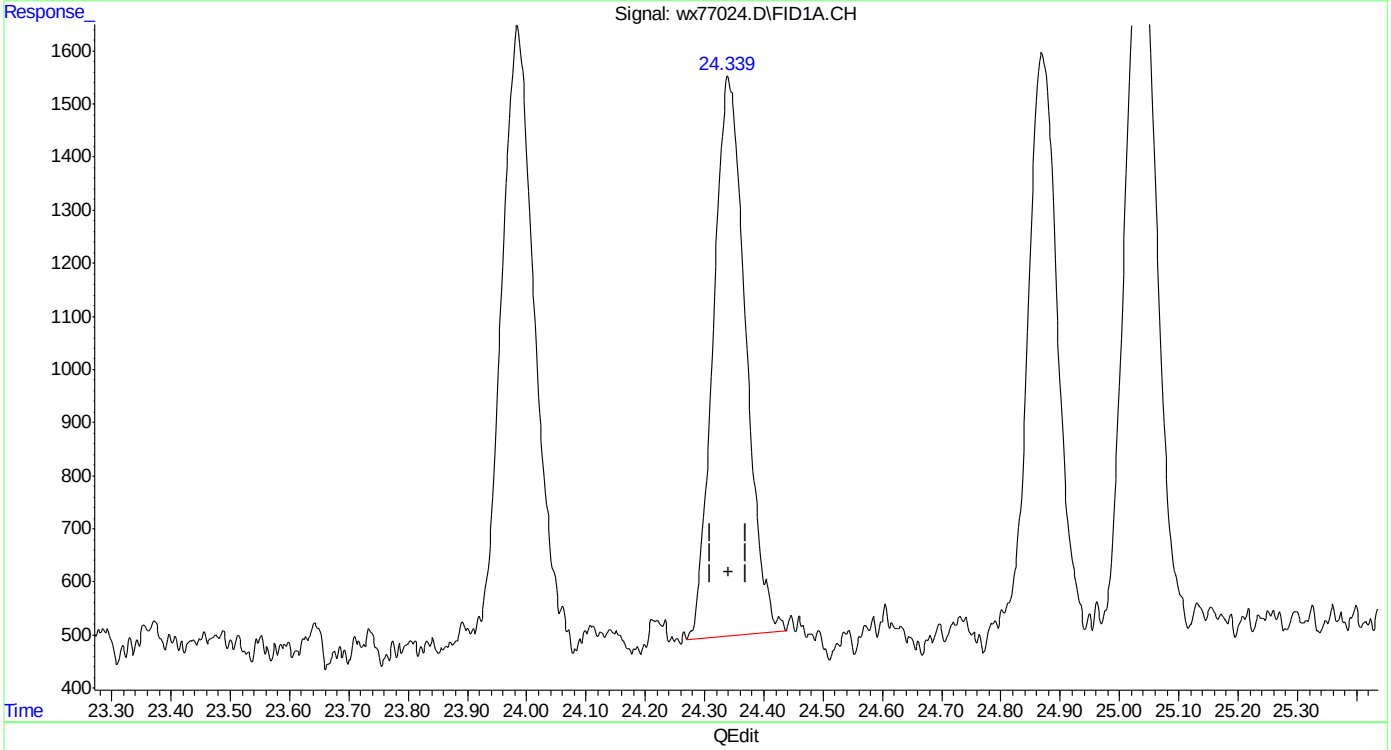
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
24.339min 1.066 ppb
response 39868

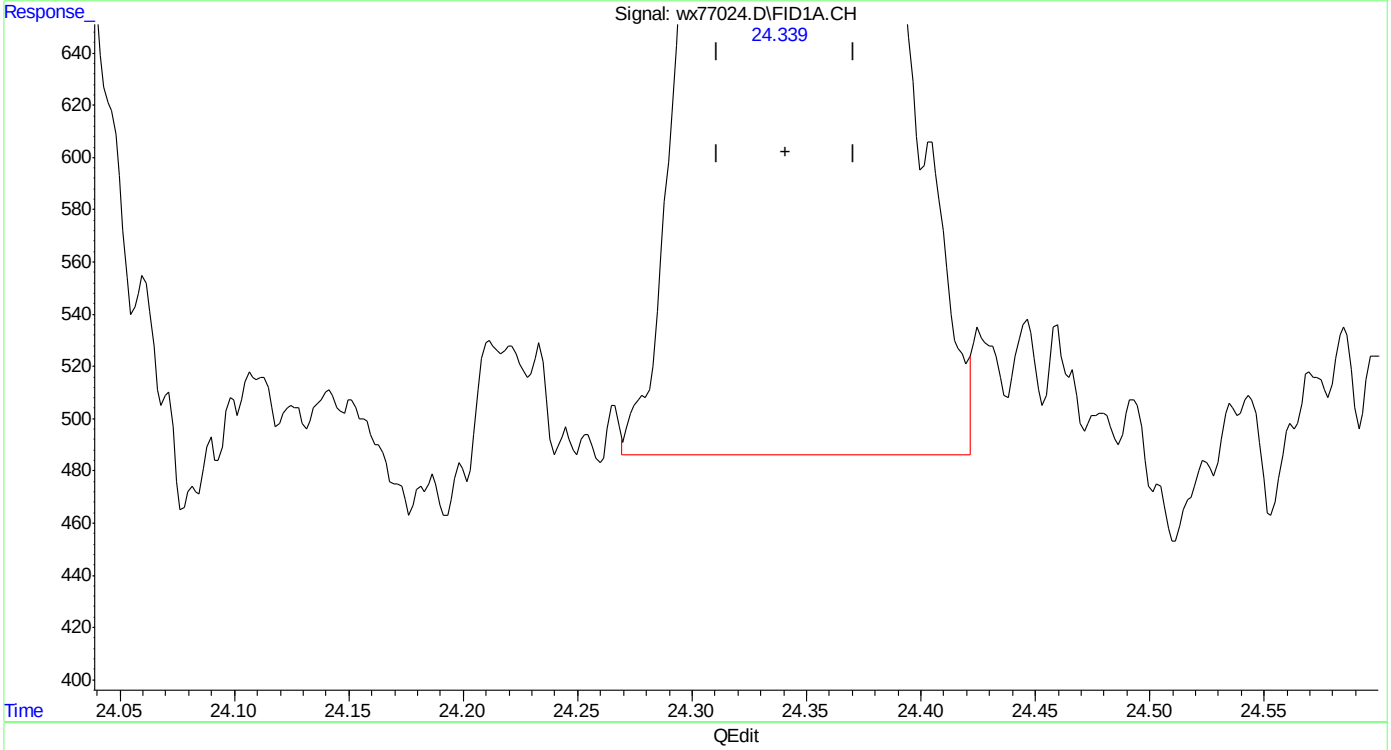
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
24.339min 1.096 ppb m
response 41000

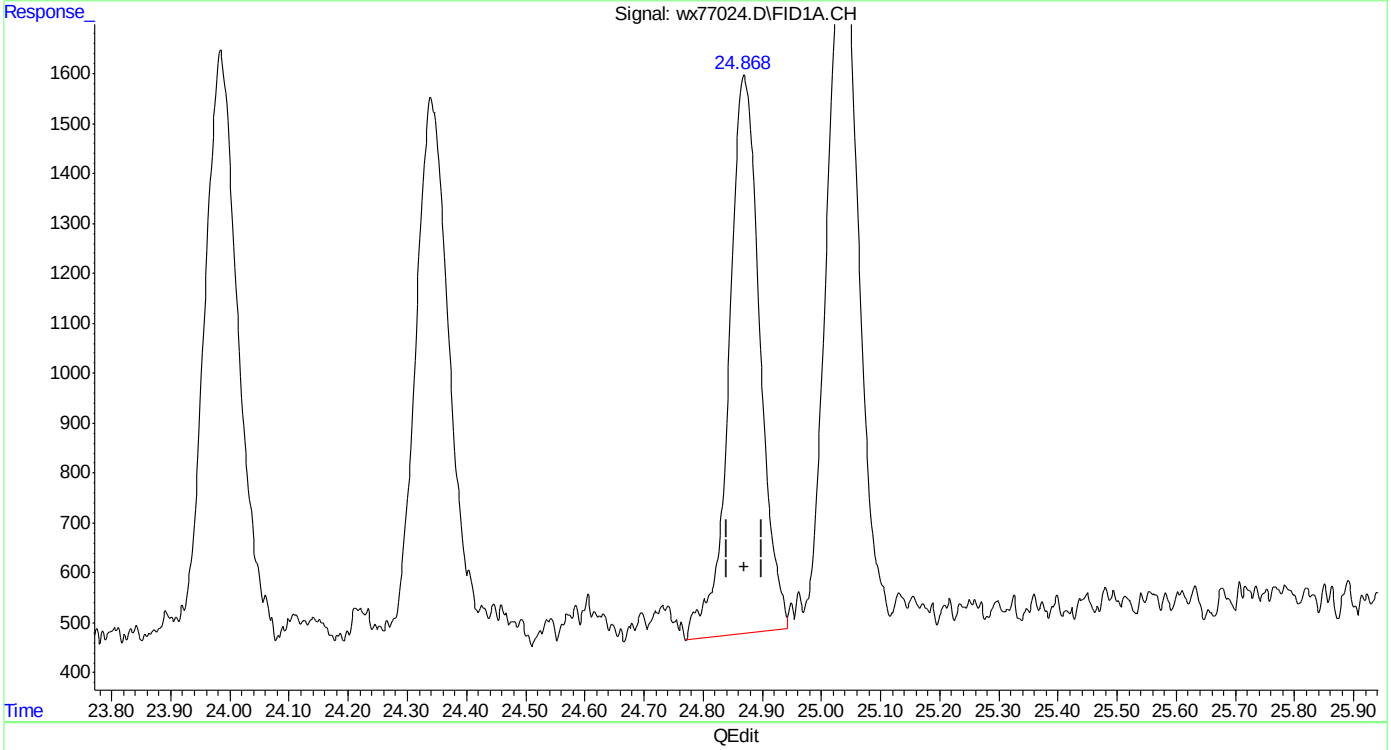
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:53 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(18) 1,2,4-trimethylbenzene
24.869min 1.130 ppb
response 40496

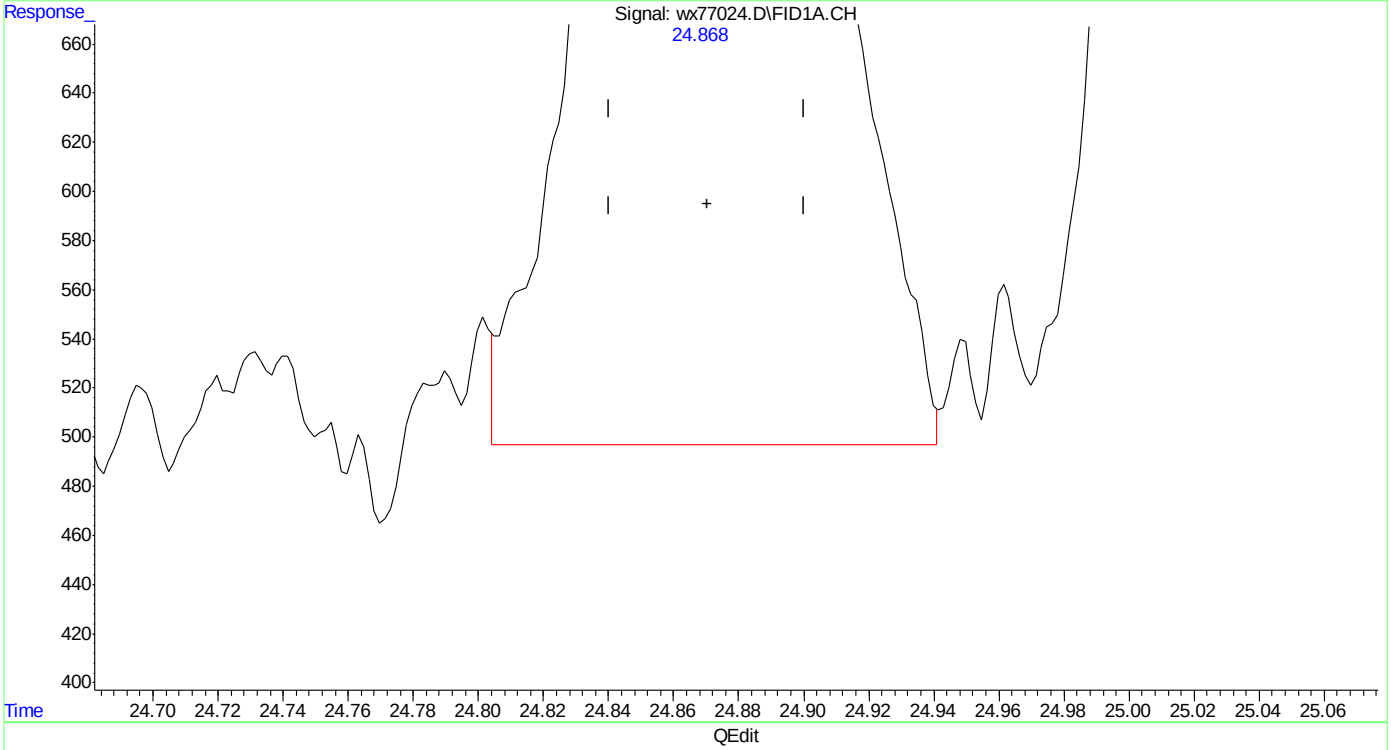
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(18) 1,2,4-trimethylbenzene
24.868min 1.063 ppb m
response 38112

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:15:06 2016

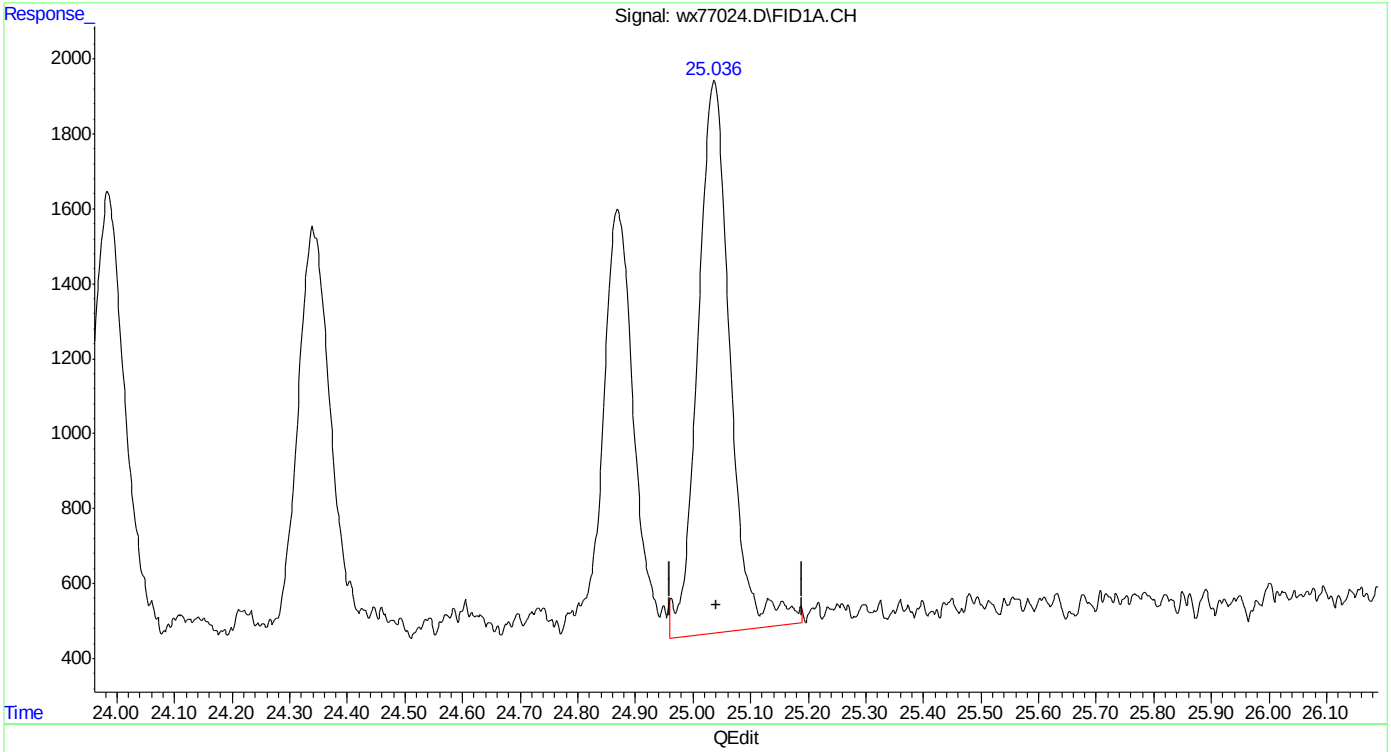
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)

25.040min 1.486 ppb

response 57701

(+) = Expected Retention Time

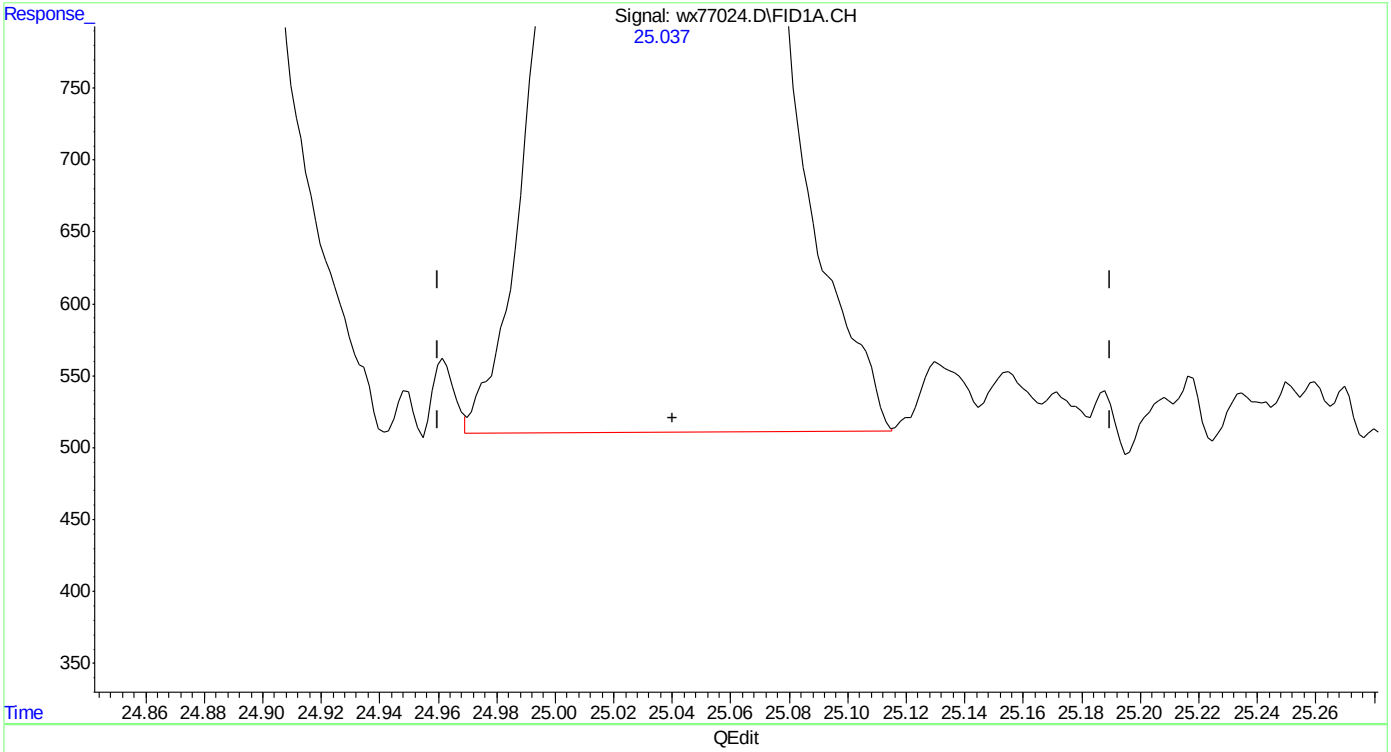
wx160602vphmaster.M Thu Jun 02 13:15:10 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)

25.040min 1.319 ppb m

response 51203

(+) = Expected Retention Time

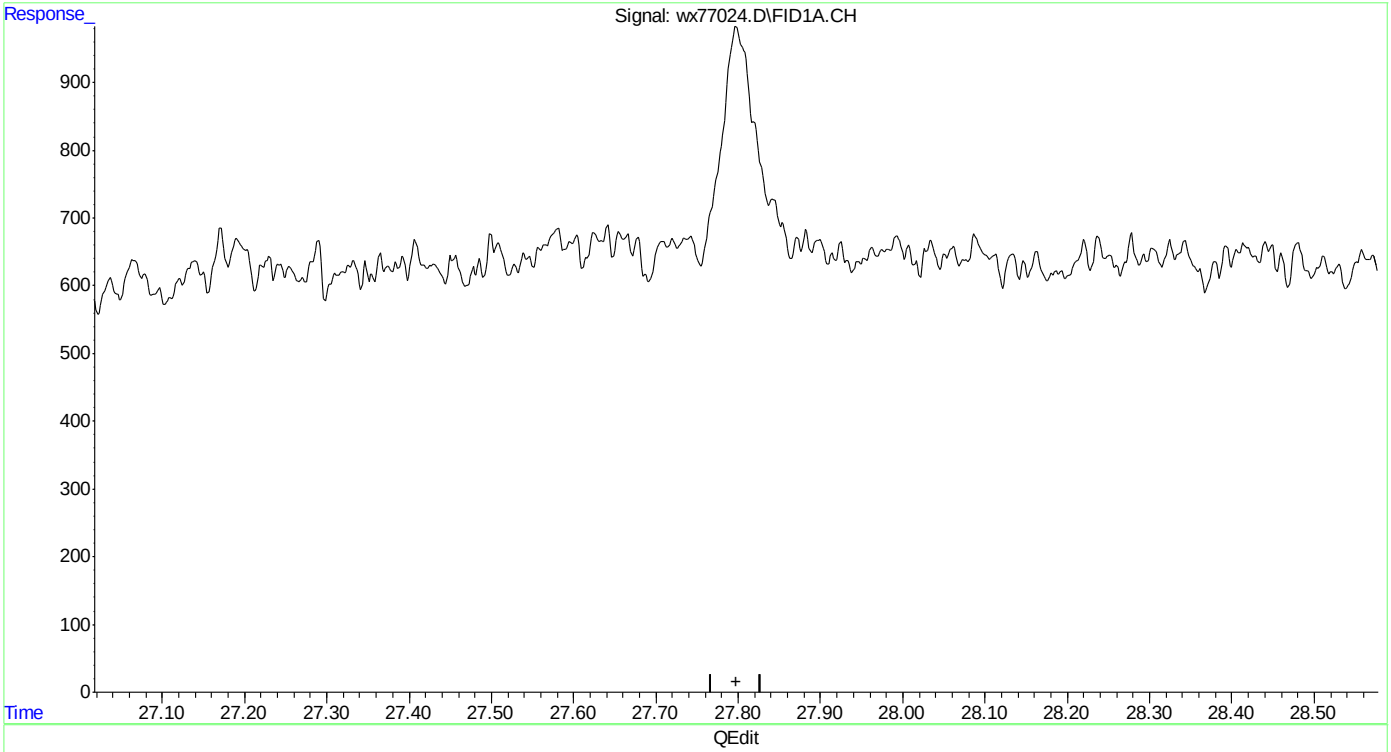
wx160602vphmaster.M Thu Jun 02 13:15:17 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.798min 0.000 ppb
response 0

(+) = Expected Retention Time

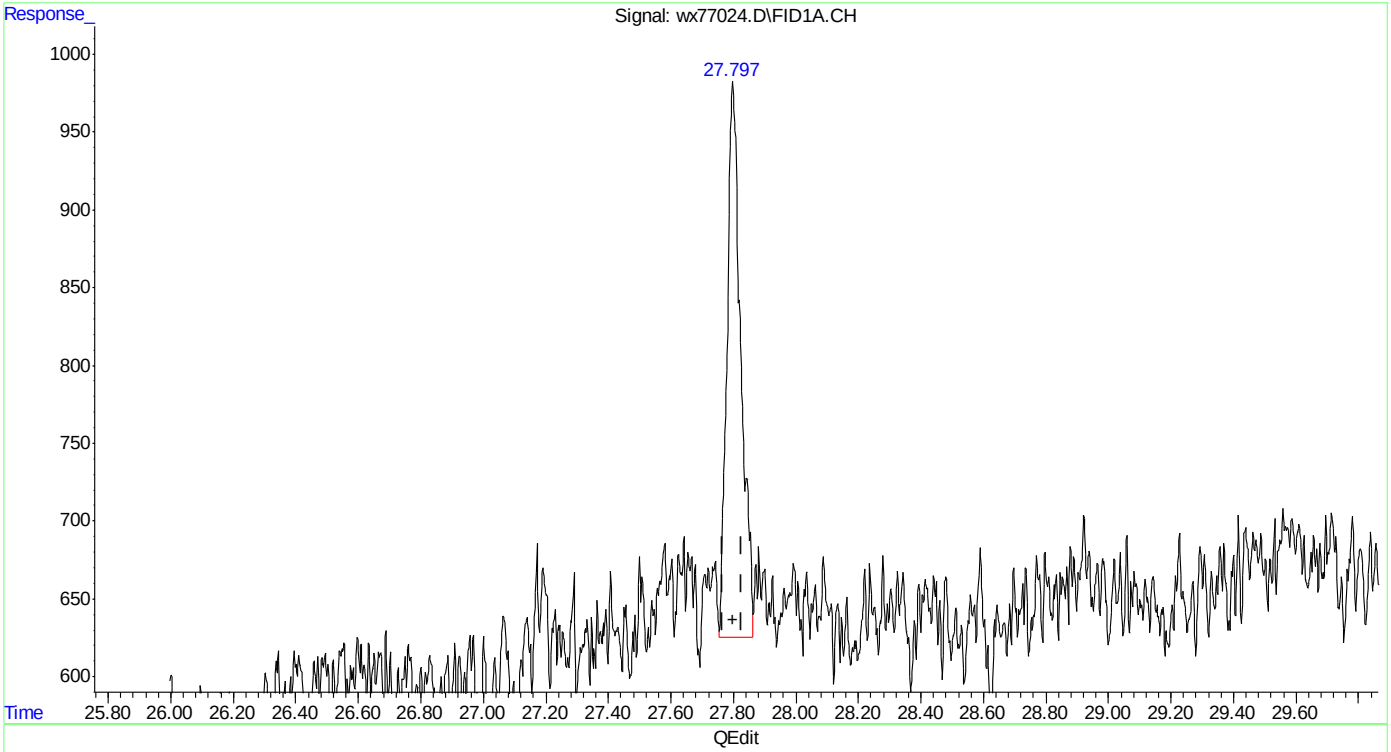
wx160602vphmaster.M Thu Jun 02 13:15:21 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.797min 0.595 ppb m

response 10975

(+) = Expected Retention Time

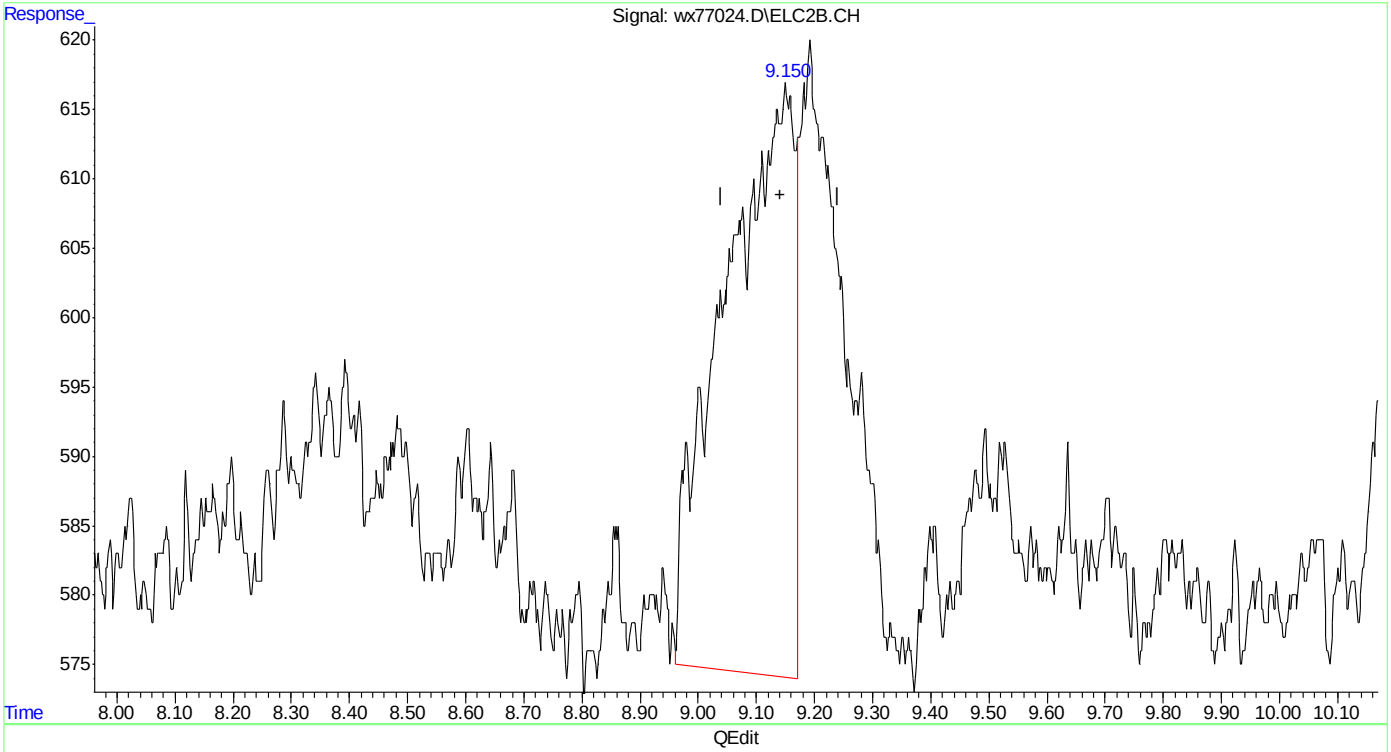
wx160602vphmaster.M Thu Jun 02 13:15:27 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.153min 0.768 ppb
response 3475

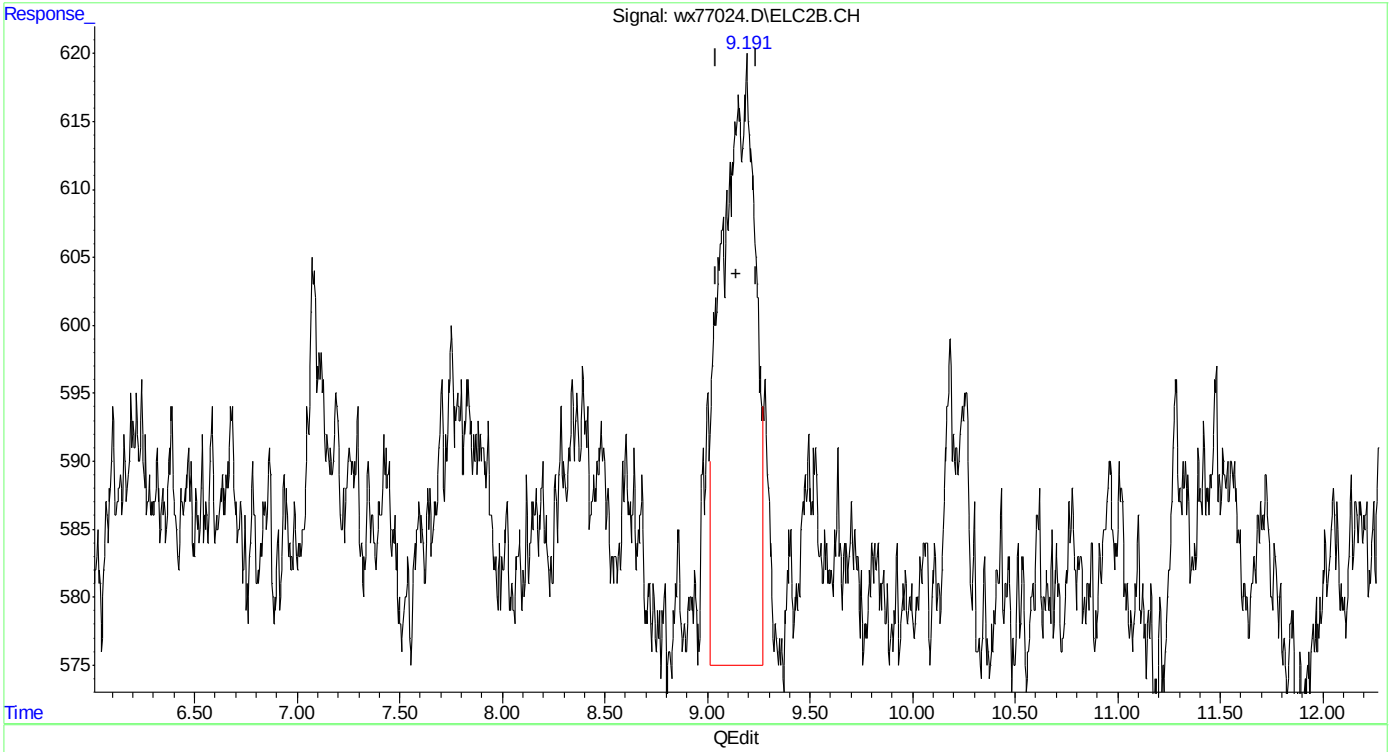
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:15:33 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.191min 1.108 ppb m
response 5014

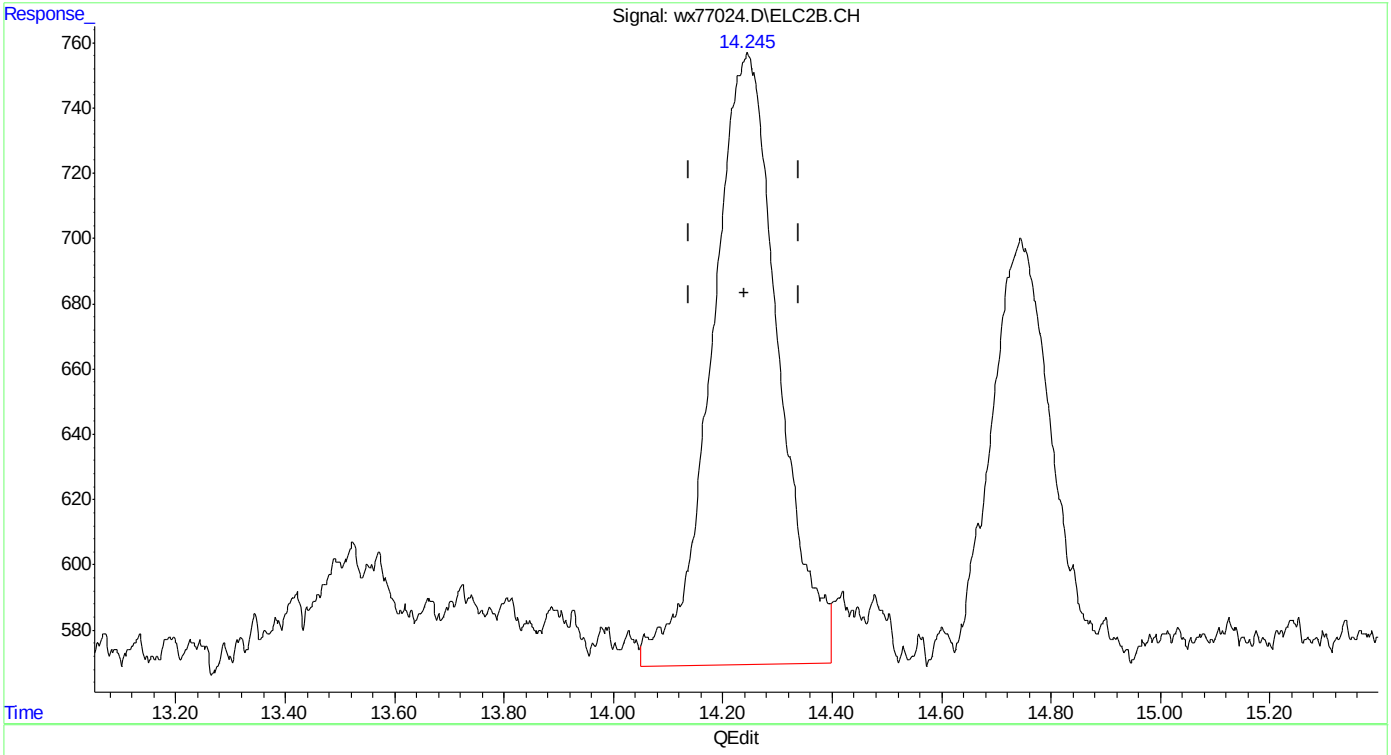
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) benzene #2
14.245min 1.107 ppb
response 15821

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:30 2016

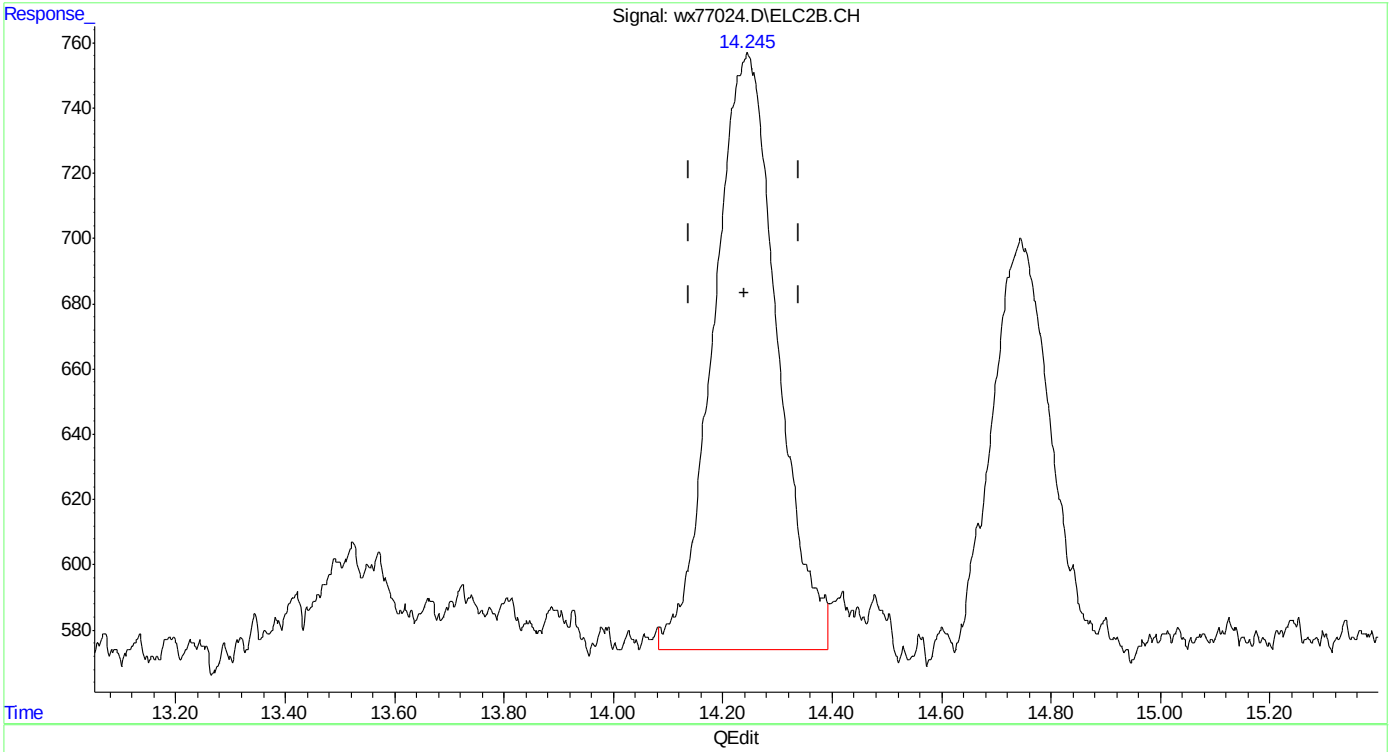
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) benzene #2
14.245min 1.032 ppb m
response 14757

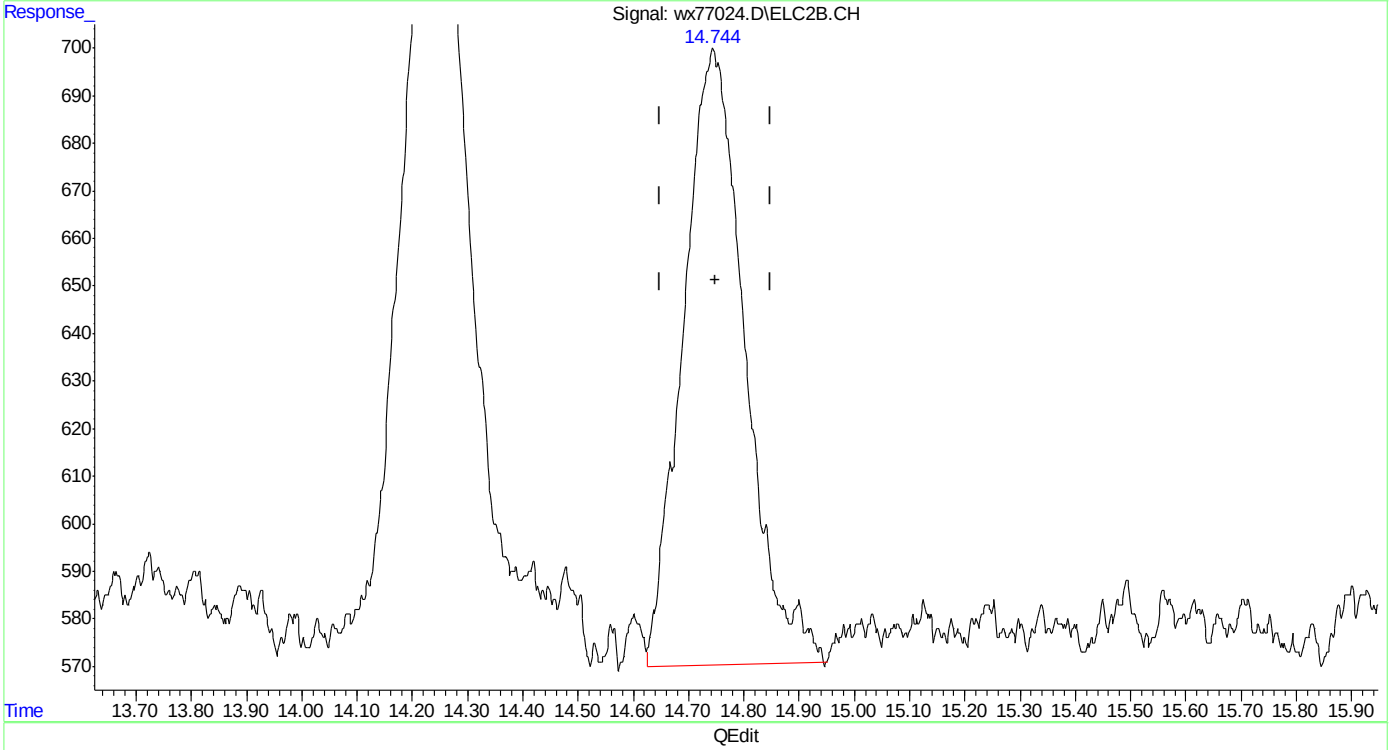
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(25) fluorobenzene #2 (s)
14.746min 1.101 ppb
response 9955

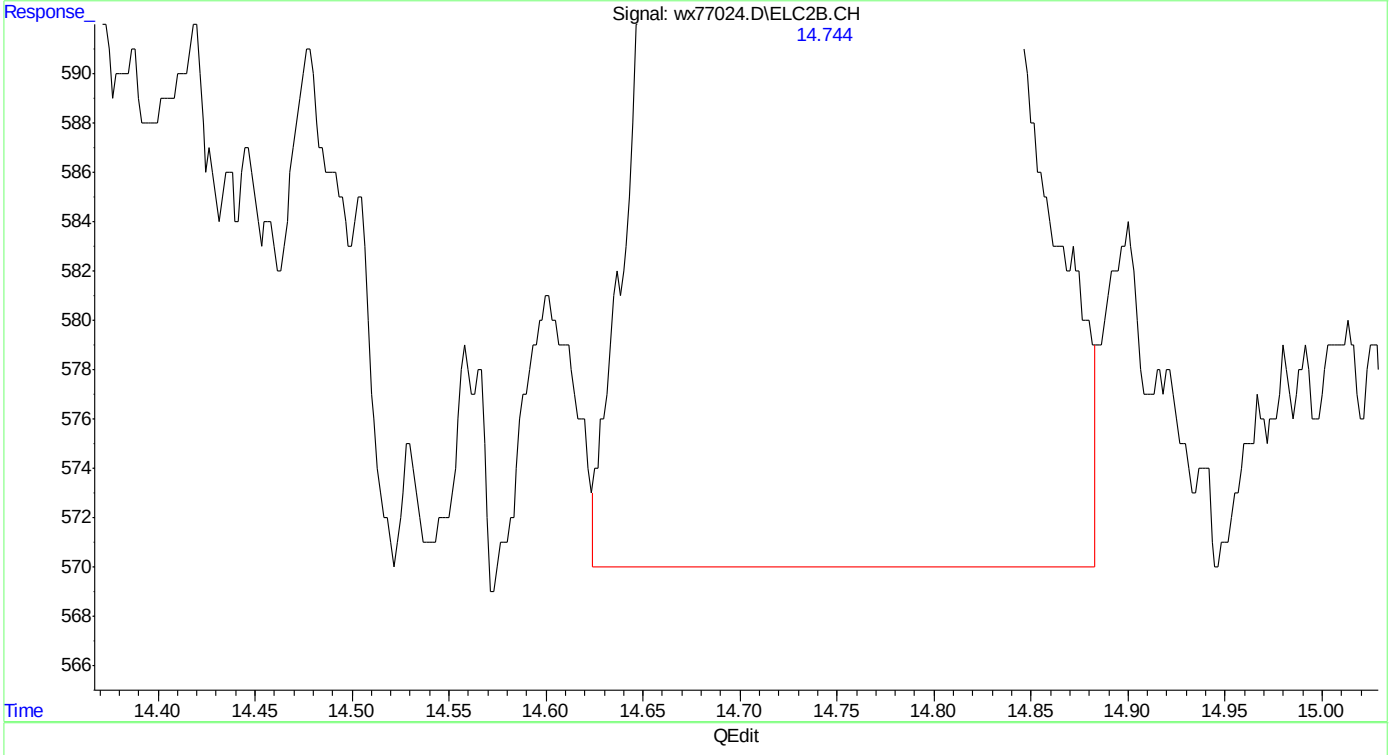
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:41 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(25) fluorobenzene #2 (s)
14.744min 1.087 ppb m
response 9835

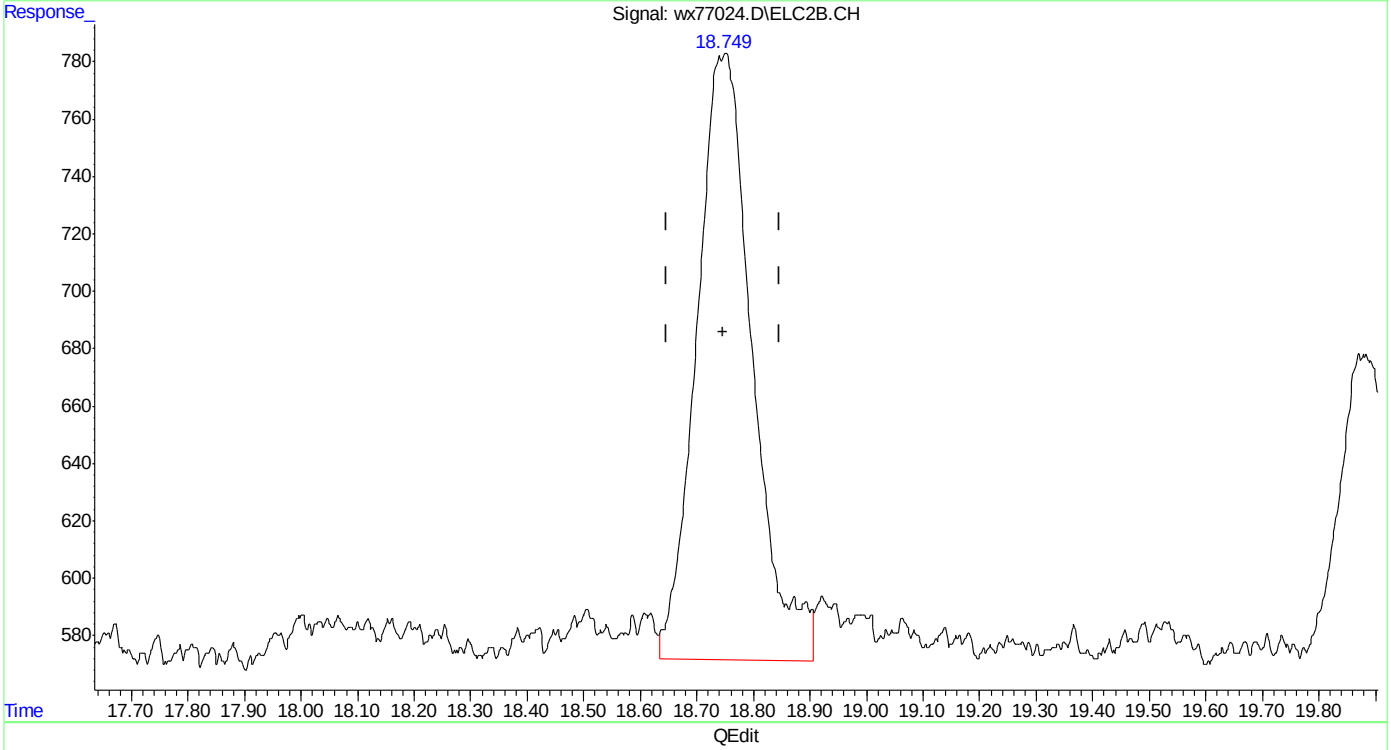
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.748min 1.109 ppb
response 14419

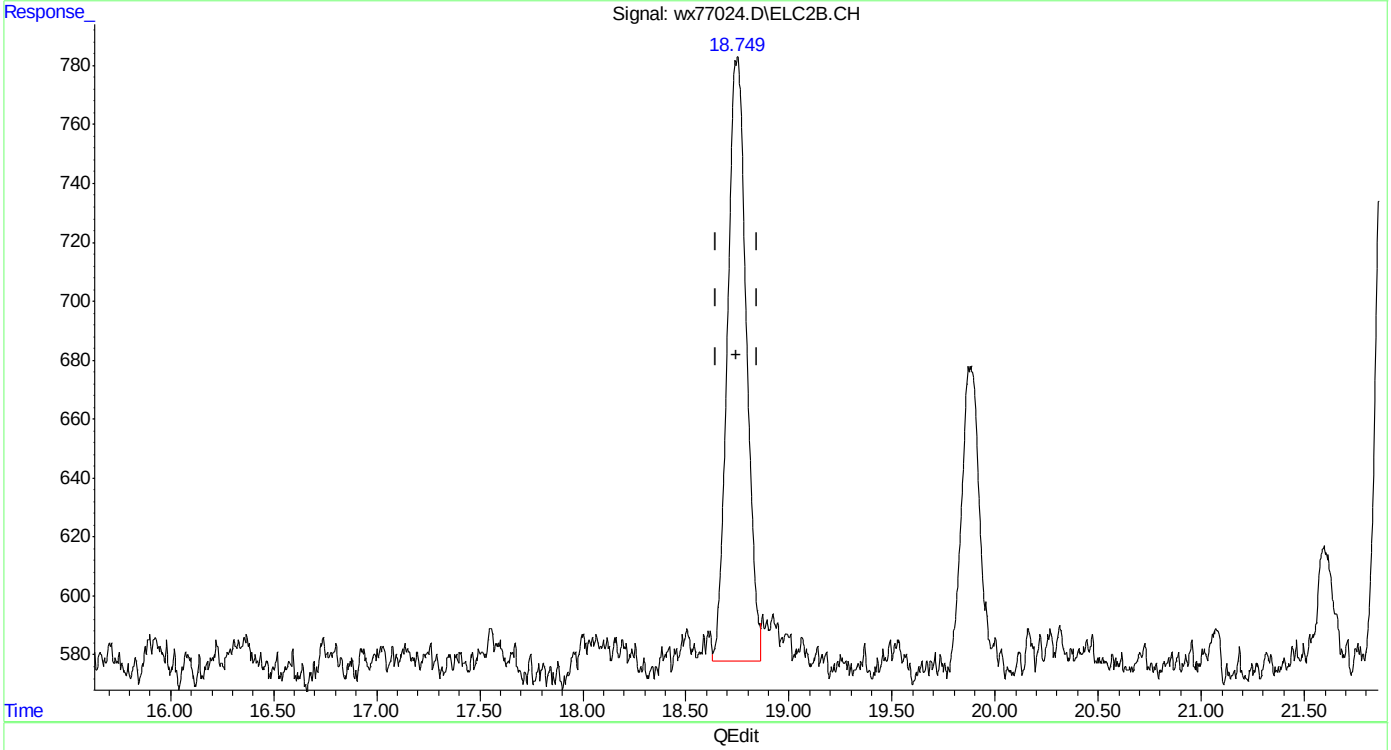
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.749min 1.002 ppb m
response 13020

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:10 2016

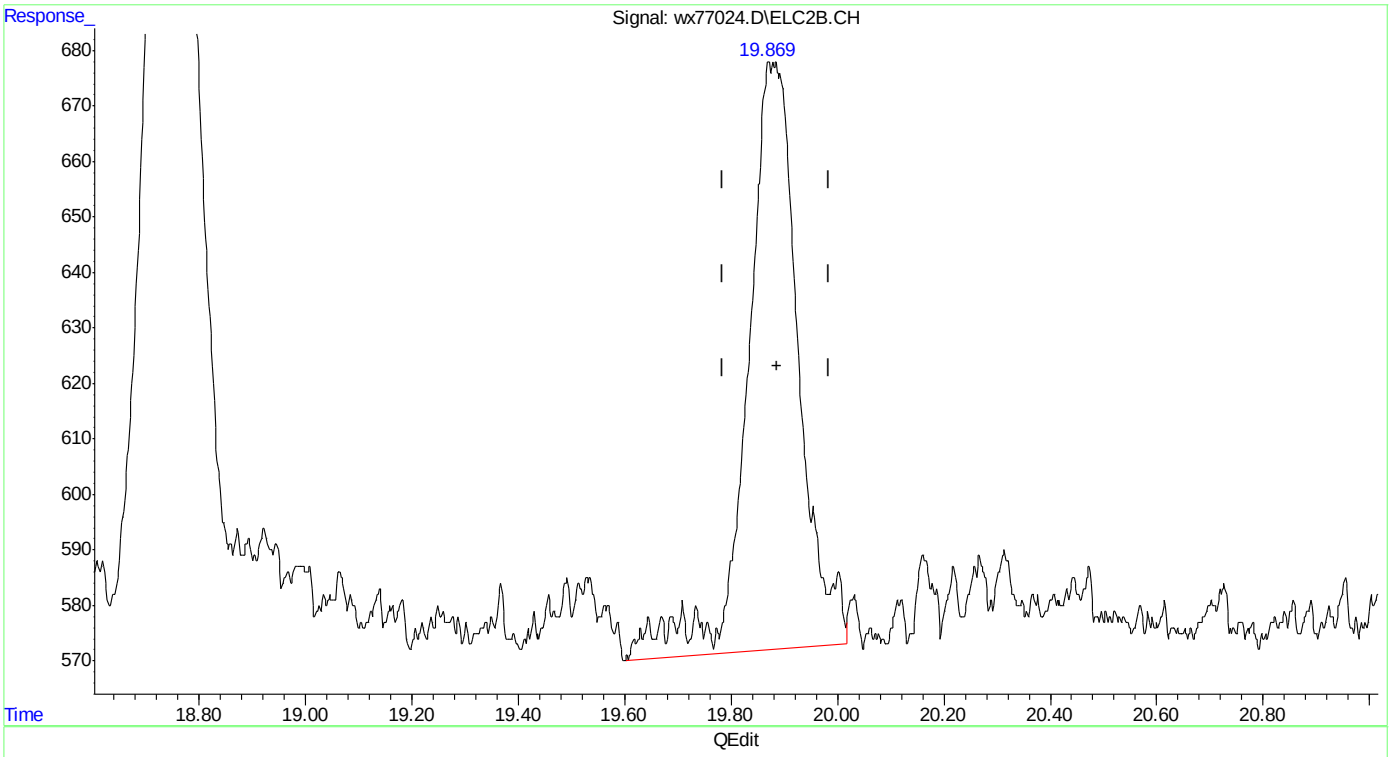
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.878min 1.301 ppb
response 7065

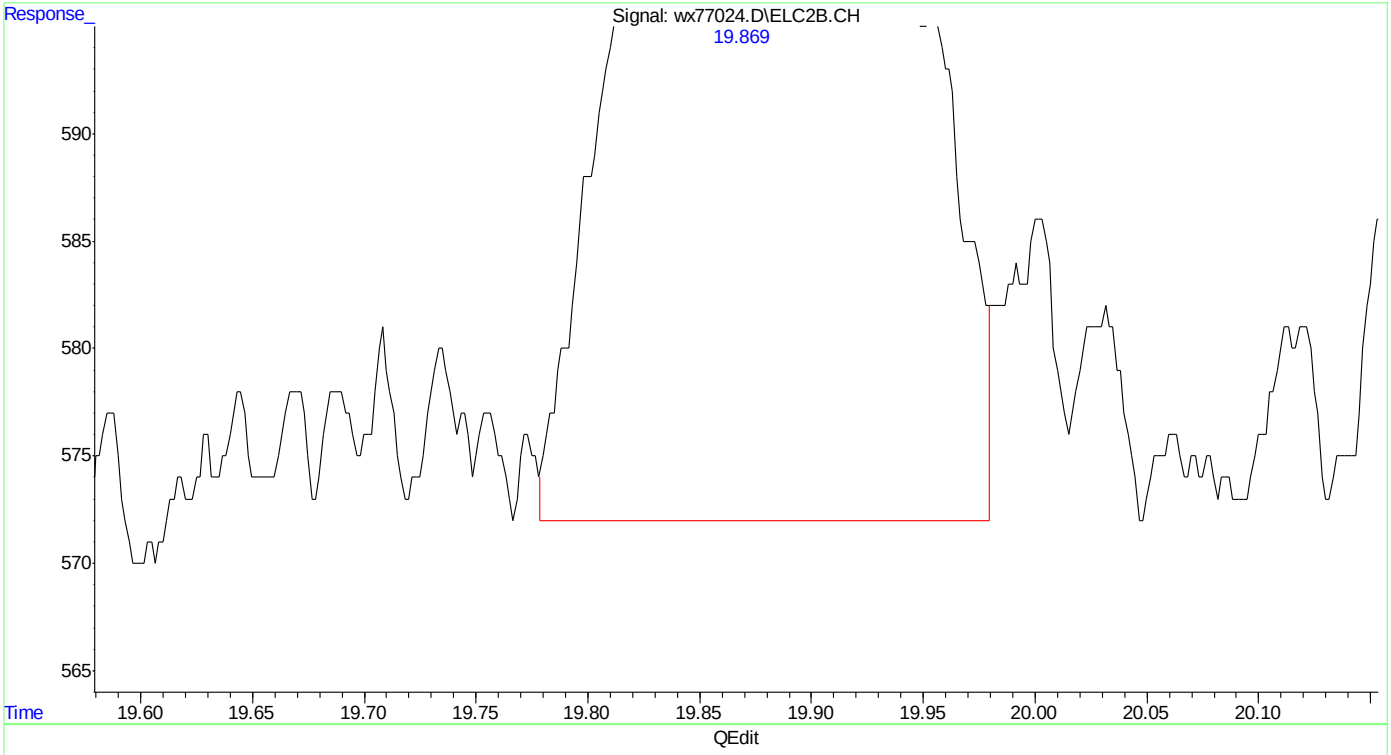
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:14 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.869min 1.187 ppb m
response 6444

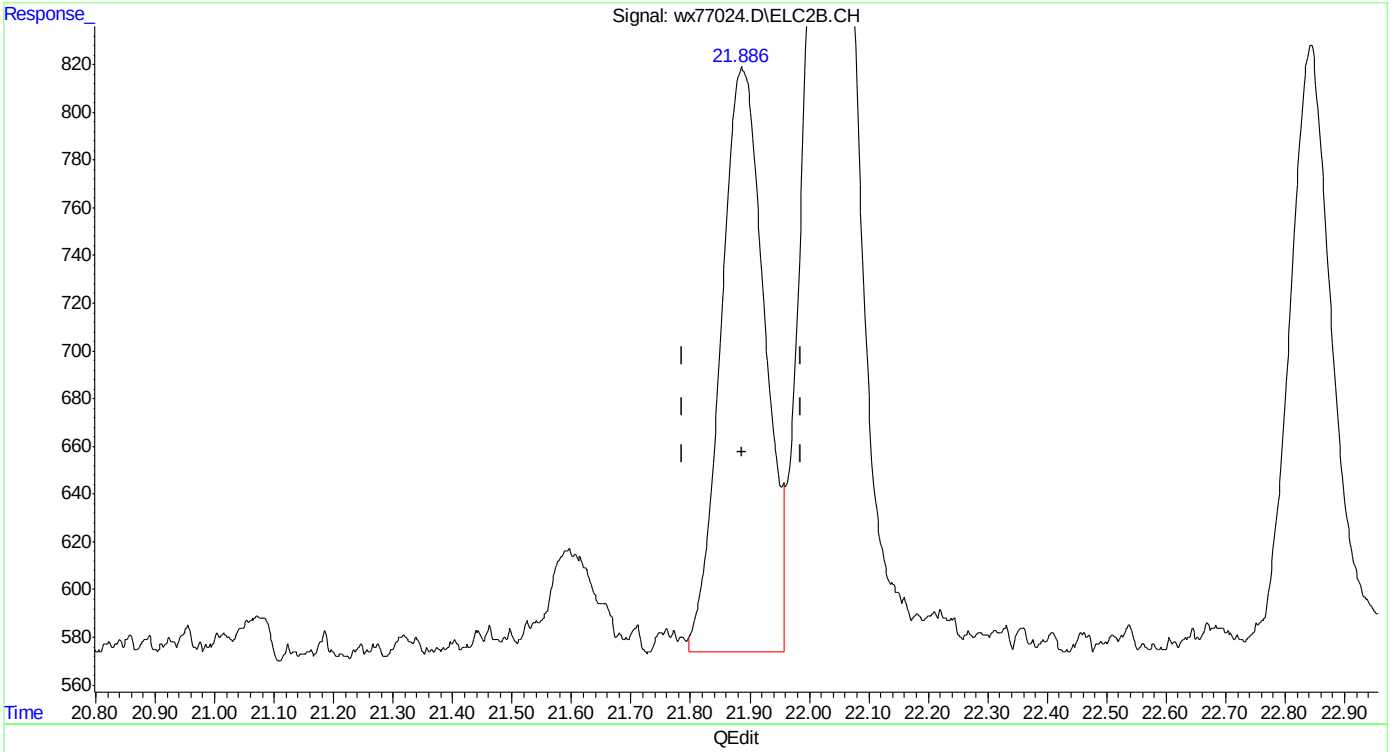
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(28) ethylbenzene #2
21.888min 1.078 ppb
response 12438

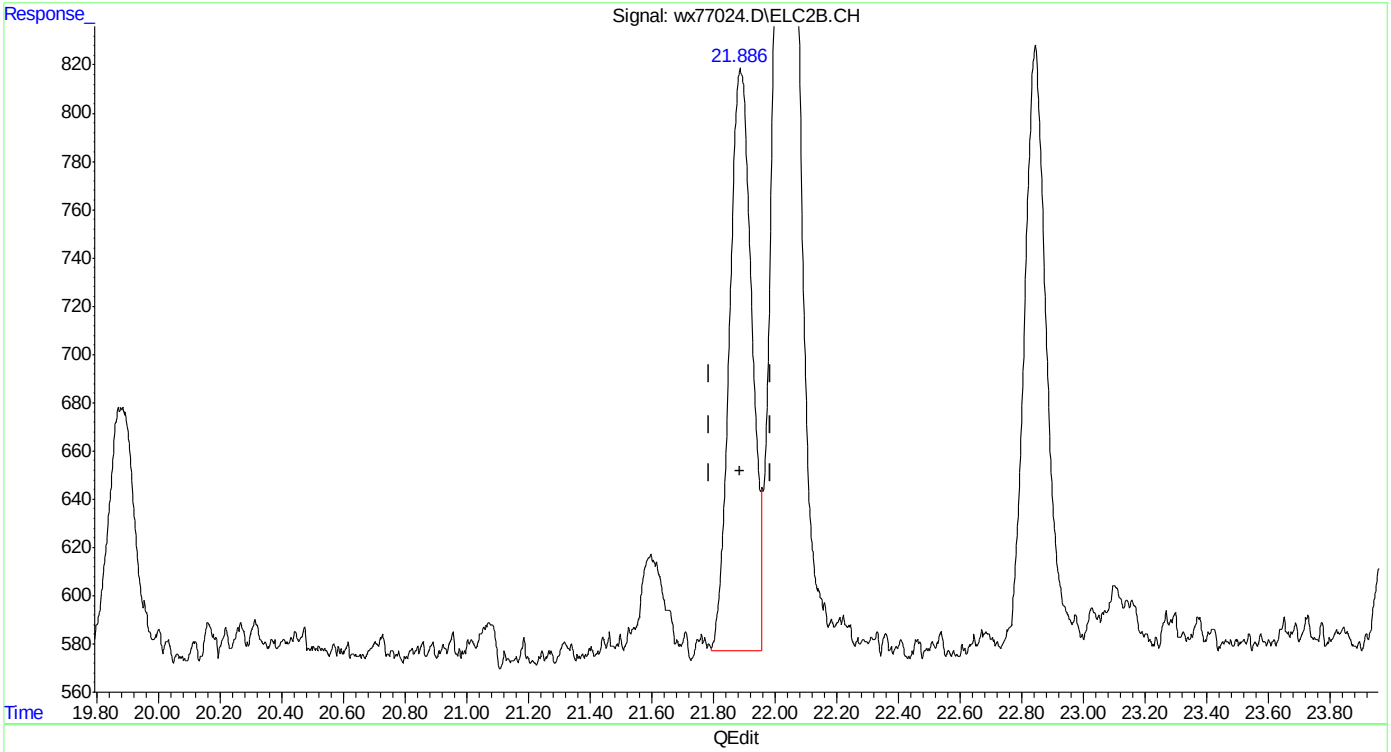
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:27 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(28) ethylbenzene #2

21.886min 1.051 ppb m

response 12133

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:17:34 2016

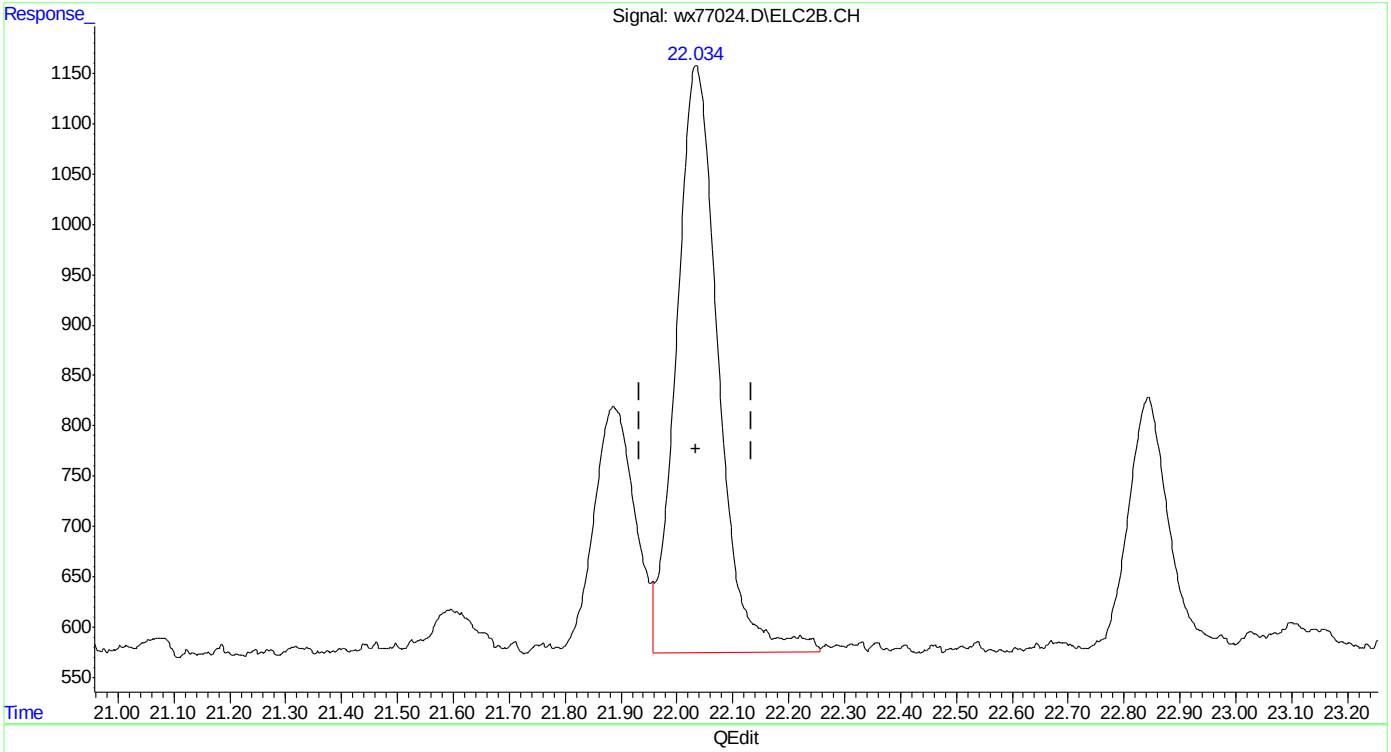
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(29) m,p-xylene #2
22.035min 2.159 ppb
response 30435

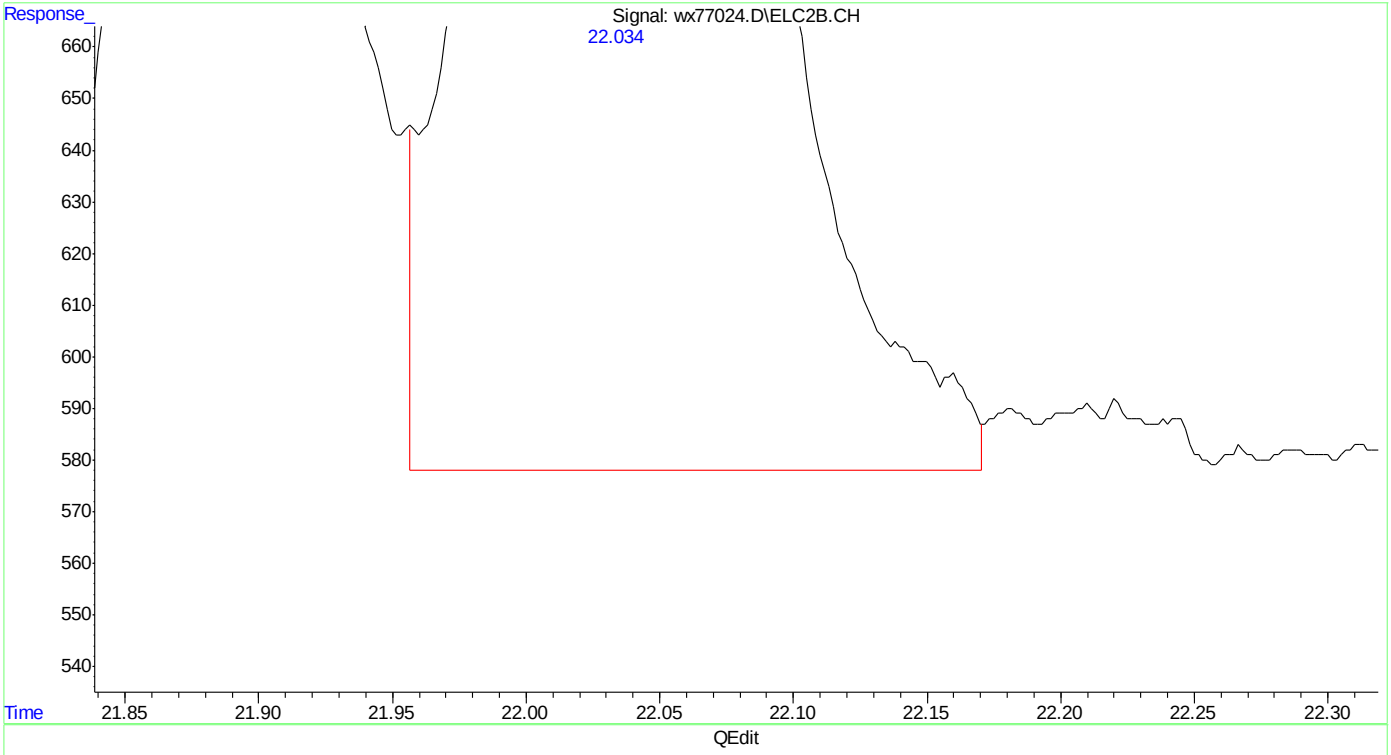
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:38 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(29) m,p-xylene #2
22.034min 2.080 ppb m
response 29316

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:46 2016

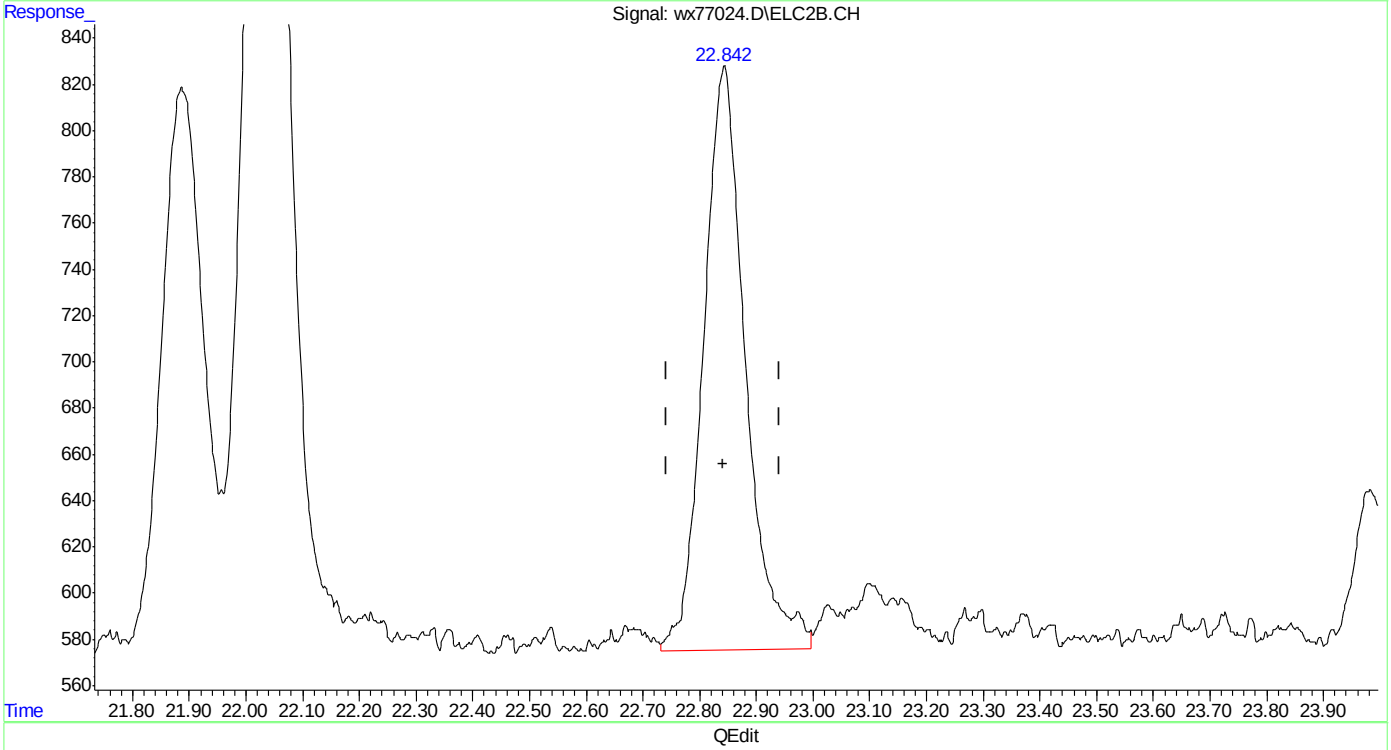
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.843min 1.108 ppb
response 12935

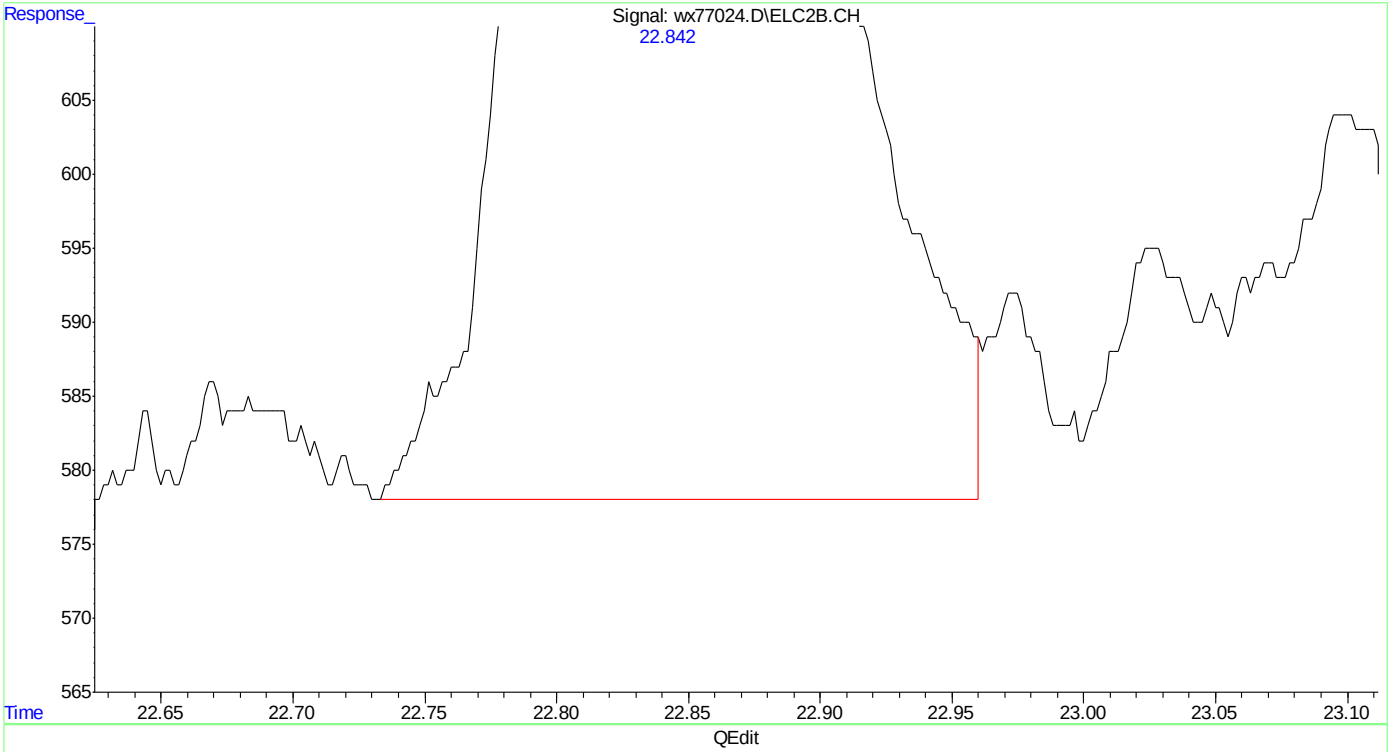
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:50 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.842min 1.058 ppb m
response 12350

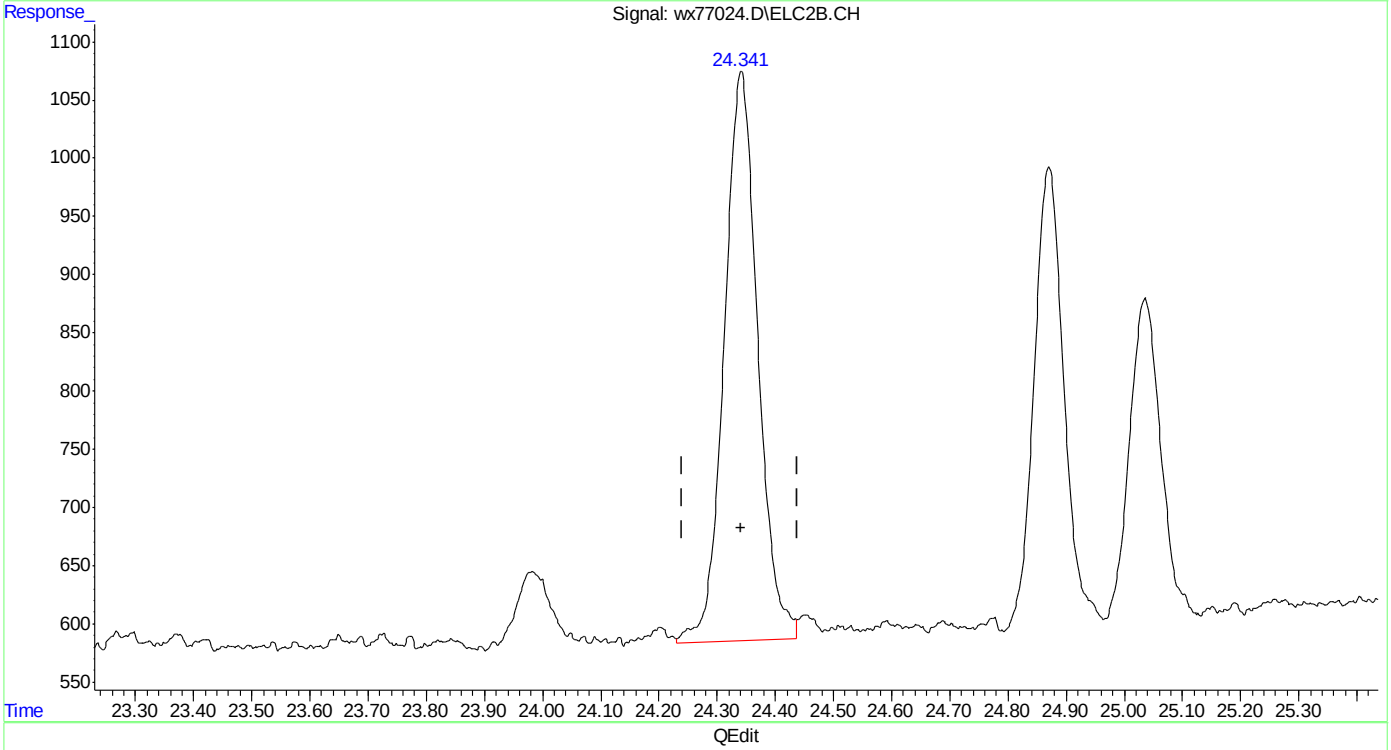
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:56 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)

24.342min 1.133 ppb

response 19632

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:18:00 2016

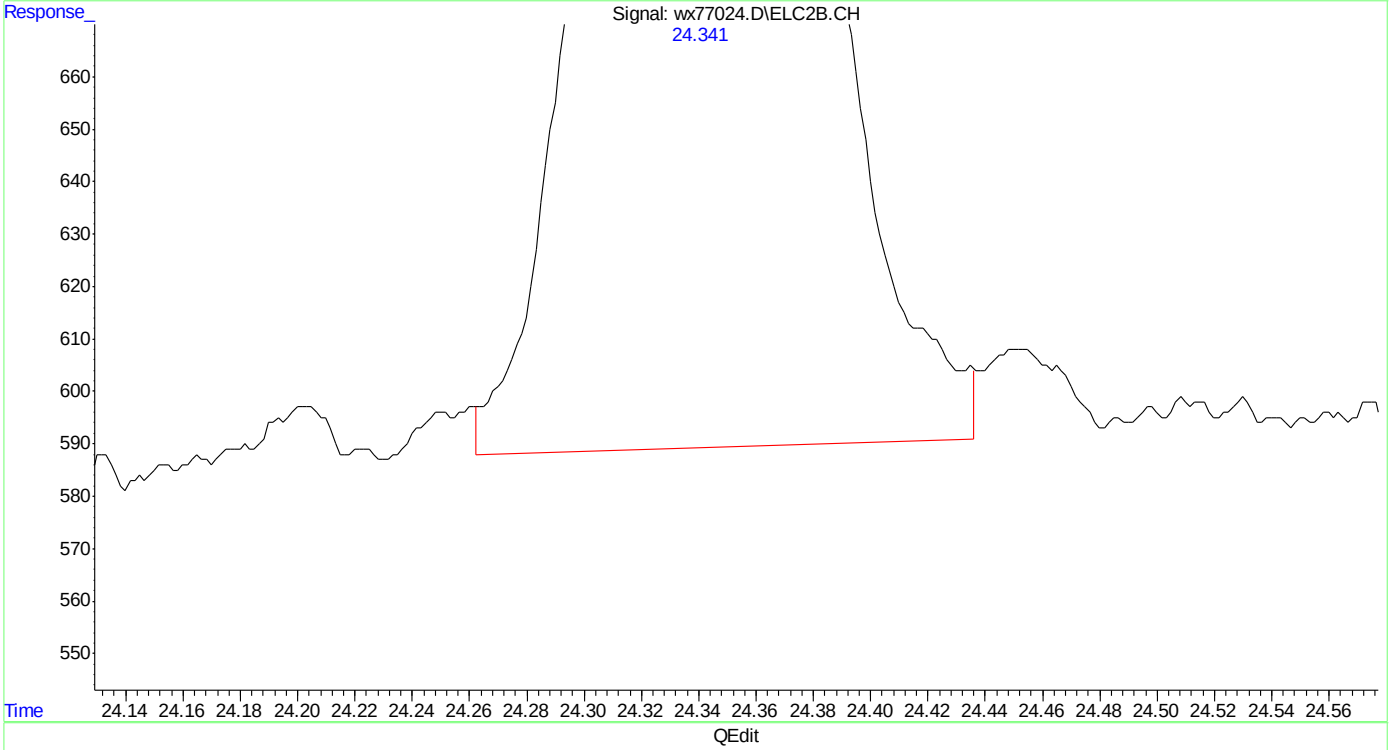
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)

24.341min 1.099 ppb m

response 19048

(+) = Expected Retention Time

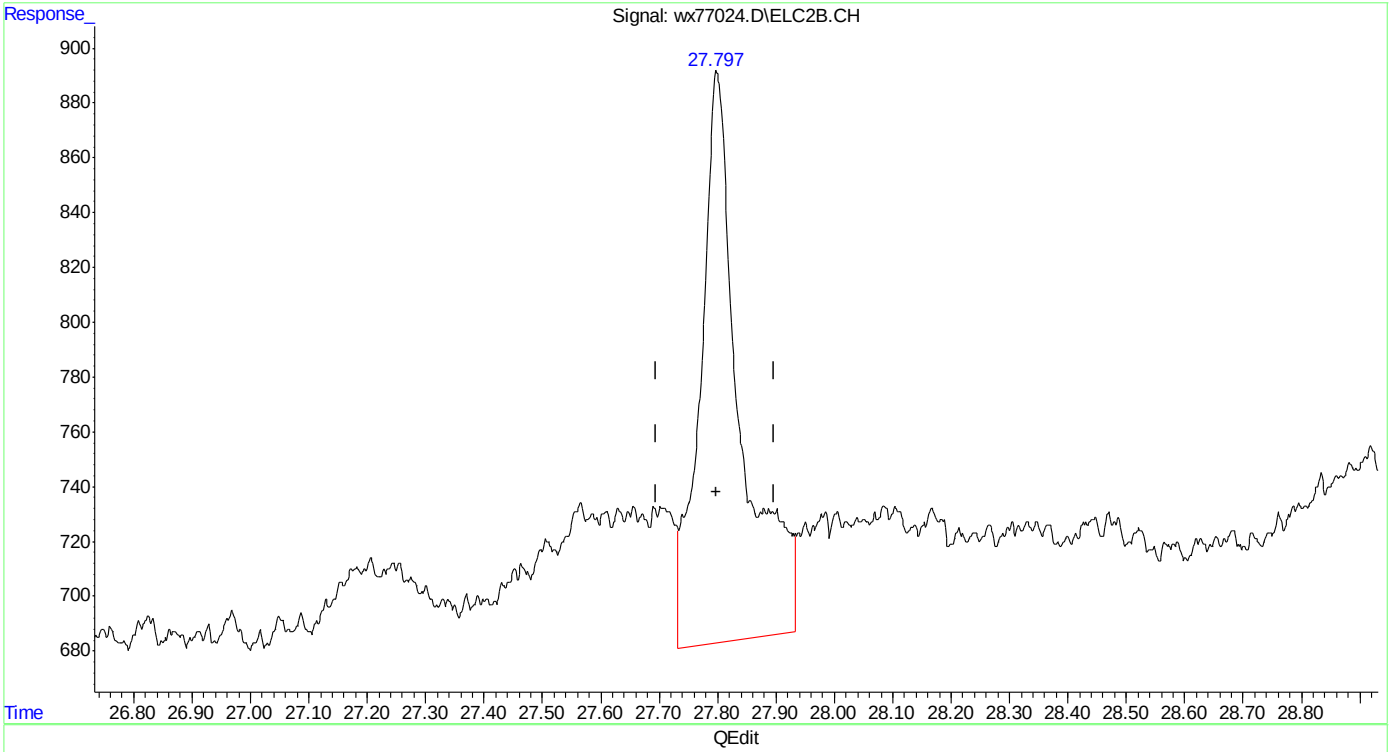
wx160602vphmaster.M Thu Jun 02 13:18:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.800min 1.046 ppb
response 9977

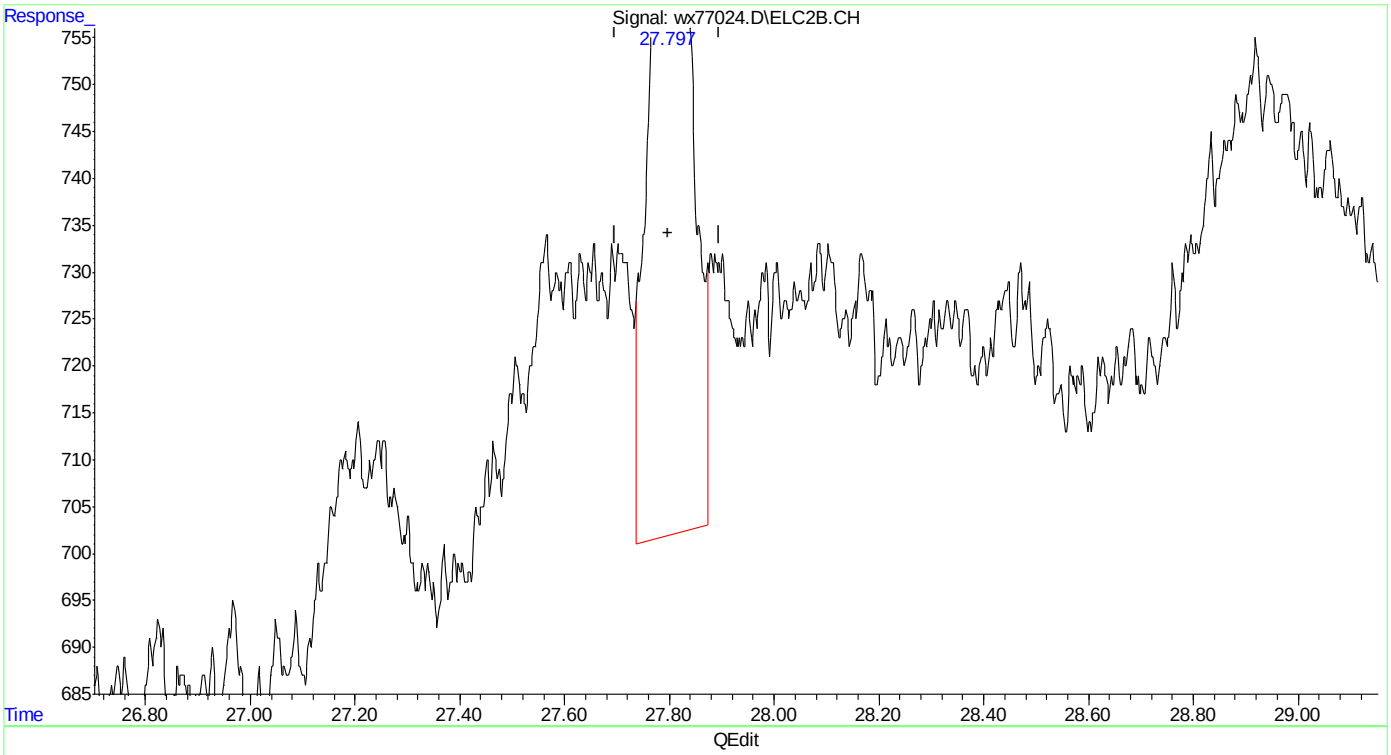
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:18:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 0.717 ppb m
response 6835

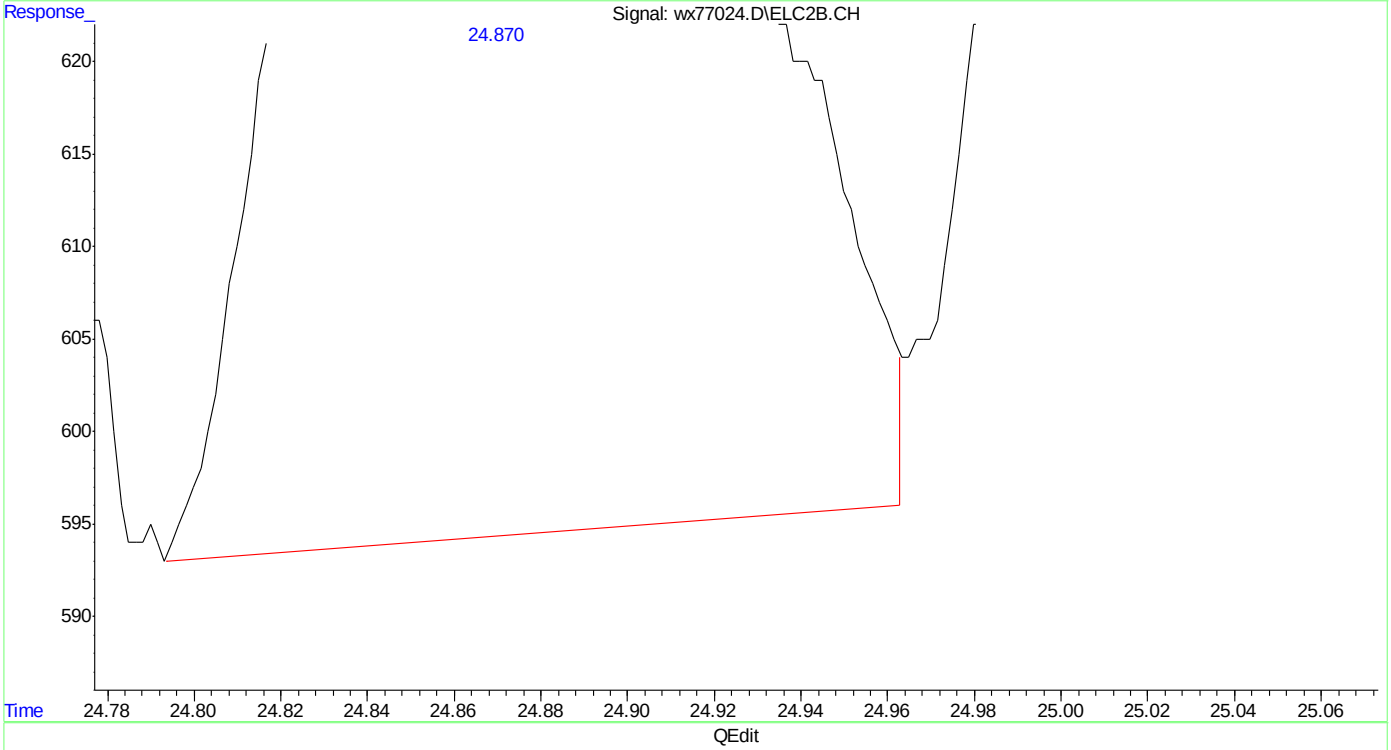
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:18:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.870min 1.117 ppb m
response 14313

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:19:06 2016

SGS ACCUTEST MC46340

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 1:06 pm
Operator : tonyf
Sample : icv3782-50,gv16404
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:47:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.743	1377988	48.762 ppb
Spiked Amount 50.000		Recovery =	97.52%
6) s 2,3,4-trifluorotoluene	19.881	1093122	47.702 ppb
Spiked Amount 50.000		Recovery =	95.40%
16) s fluorobenzene #2	14.742	435459	47.761 ppb
Spiked Amount 50.000		Recovery =	95.52%
18) s 2,3,4-trifluorotoluen...	19.881	251756	46.095 ppb
Spiked Amount 50.000		Recovery =	92.19%
Target Compounds			
1) h rt5.5-7	6.100	1038789	43.900 ppb
2) h rt7/10	8.370	1351506	57.115 ppb
3) h rt10/13	13.510	1035513	43.761 ppb
8) h rt20/25	21.600	1472906	41.095 ppb
10) h Decane	23.990	1429444	39.882 ppb
11) h Butylcyclohexane	25.040	1581154	44.115 ppb
14) mtbe #2	9.144	211112	48.388 ppb
15) benzene #2	14.237	678959	47.795 ppb
17) toluene #2	18.746	617957	48.035 ppb
19) ethylbenzene #2	21.886	547240	47.807 ppb
20) m,p-xylene #2	22.034	1326976	96.036 ppb
21) o-xylene #2	22.842	560328	48.244 ppb
22) t 1,3,5-trimethylbenzen...	24.341	822121	48.233 ppb
23) 1,2,4-trimethylbenzen...	24.870	604994	47.844 ppb
24) naphthalene #2	27.798	495364	55.611 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	604244	47.804 ppb

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

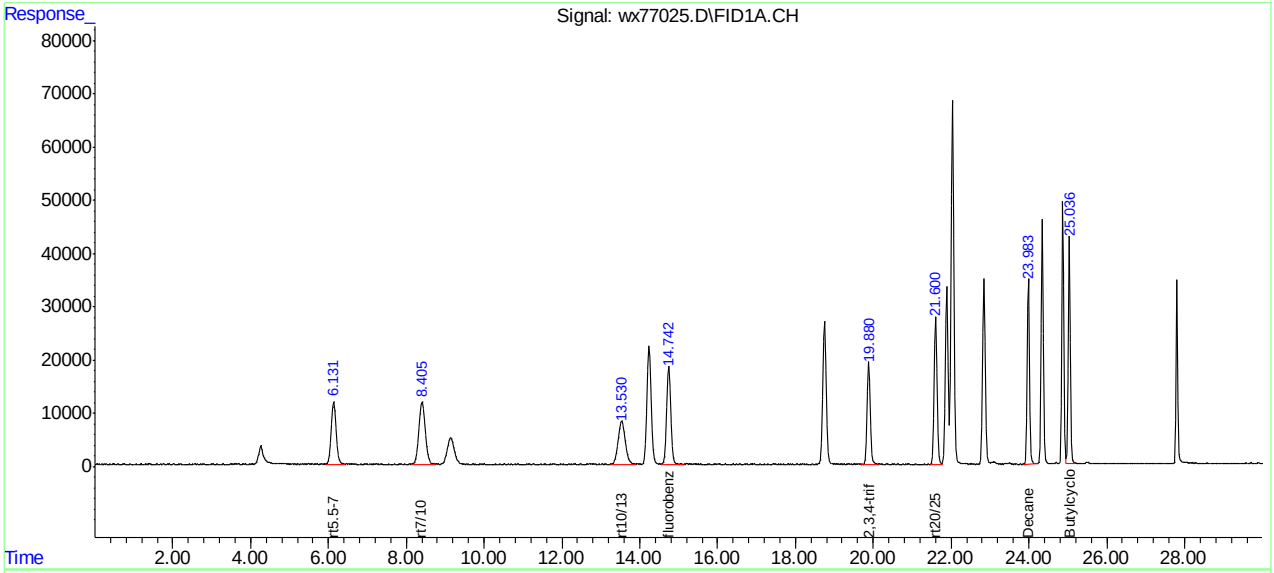
7.5.10
7

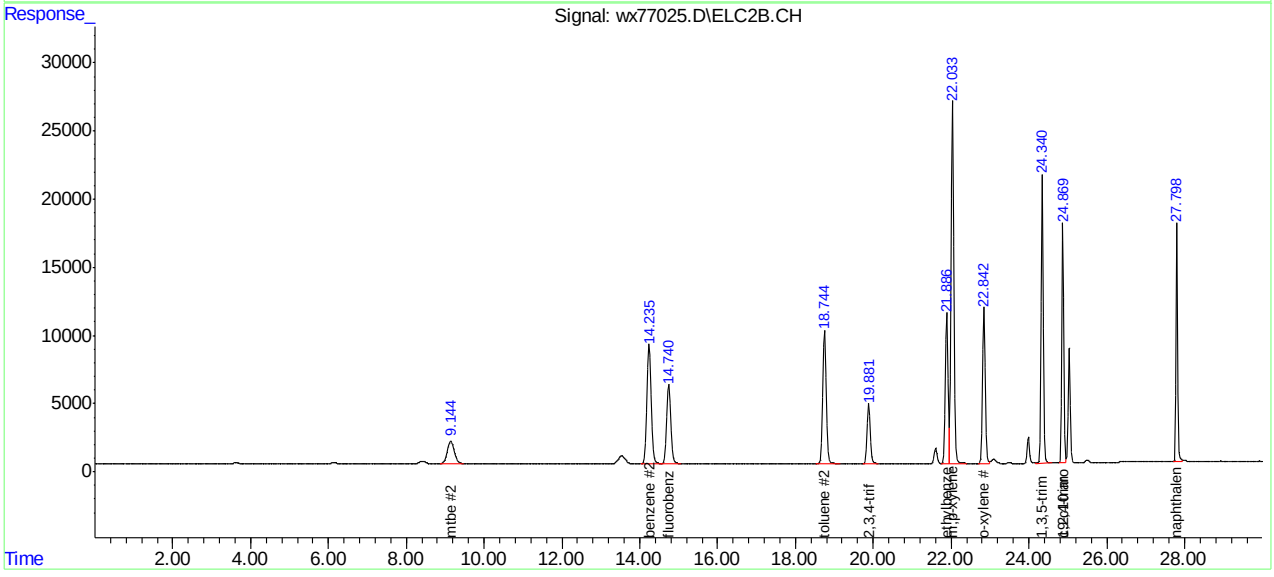
Quantitation Report (QT Reviewed)

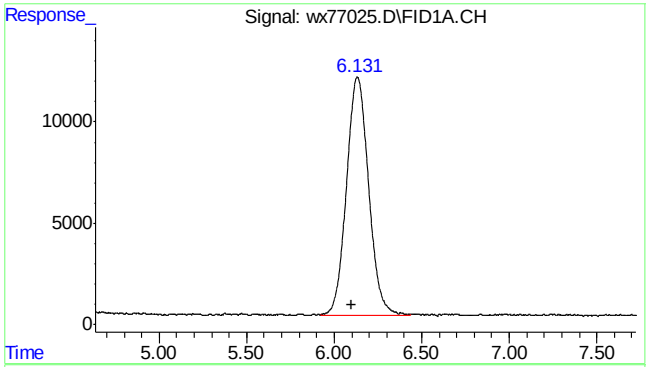
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 1:06 pm
Operator : tonyf
Sample : icv3782-50,gv16404
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:47:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

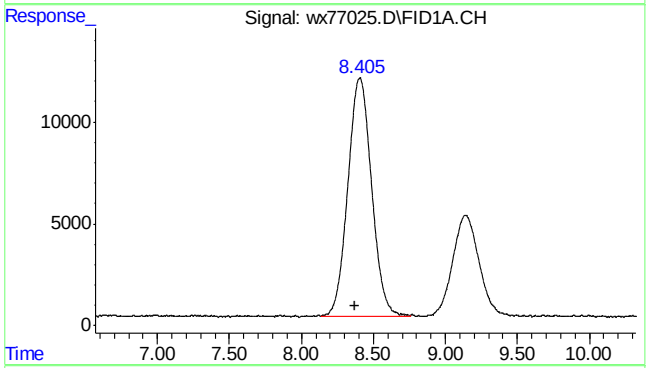






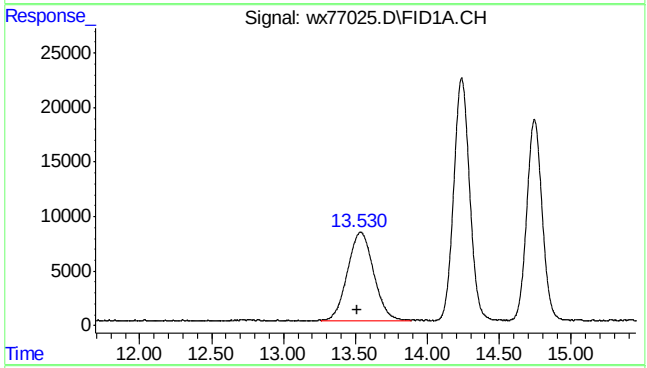
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1038789
Conc: 43.90 ppb m



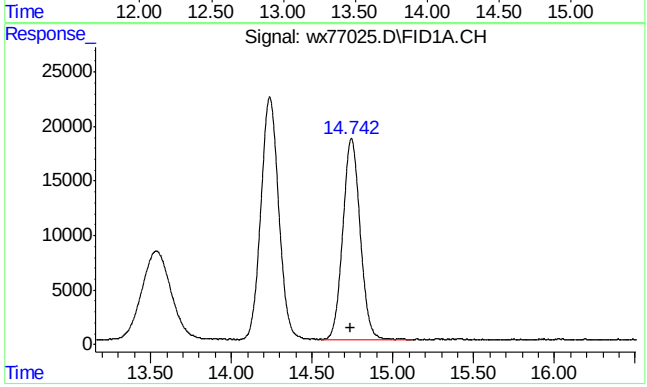
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1351506
Conc: 57.12 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1035513
Conc: 43.76 ppb m



#4 fluorobenzene

R.T.: 14.743 min
Delta R.T.: 0.005 min
Response: 1377988
Conc: 48.76 ppb

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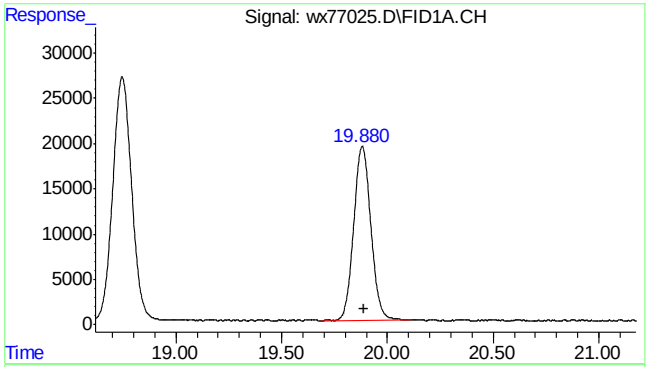
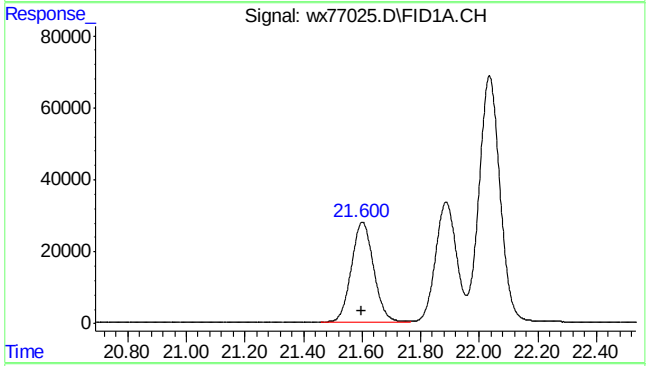


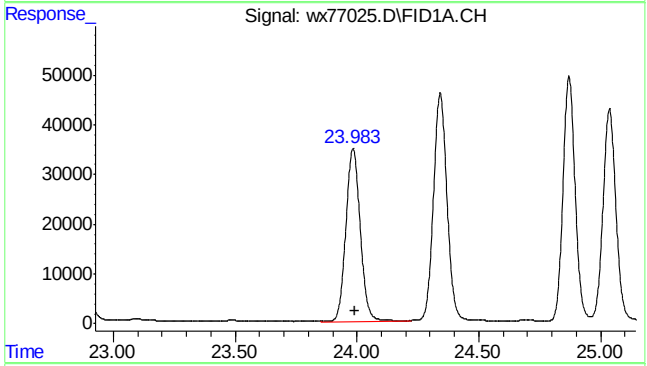
#6 2,3,4-trifluorotoluene

R.T.: 19.881 min
Delta R.T.: -0.009 min
Response: 1093122
Conc: 47.70 ppb



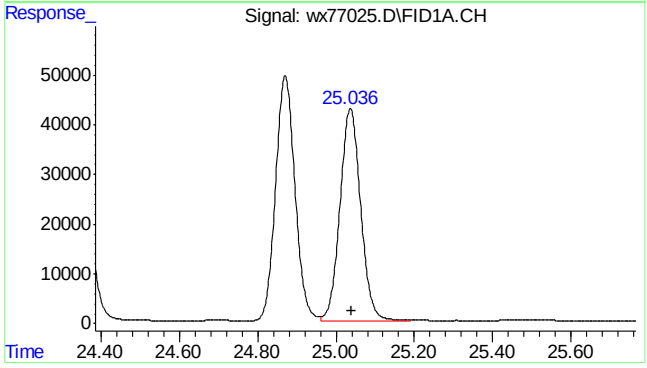
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1472906
Conc: 41.09 ppb m



#10 Decane

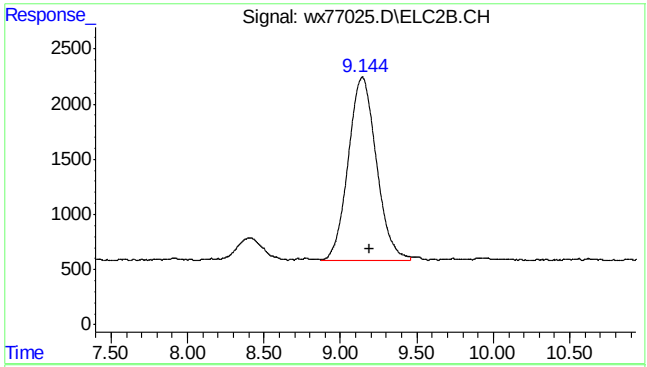
R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1429444
Conc: 39.88 ppb m



#11 Butylcyclohexane

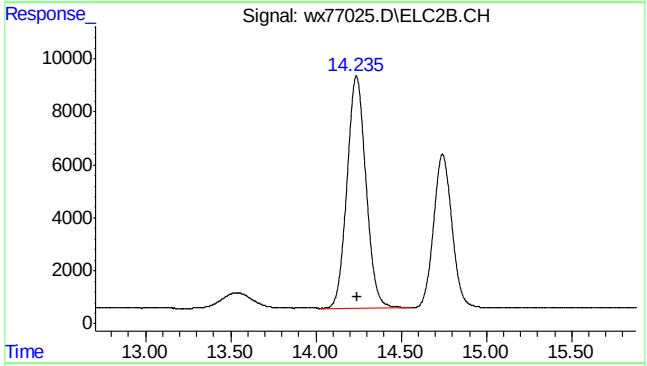
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1581154
Conc: 44.11 ppb m

SGS ACCUTEST MC46340



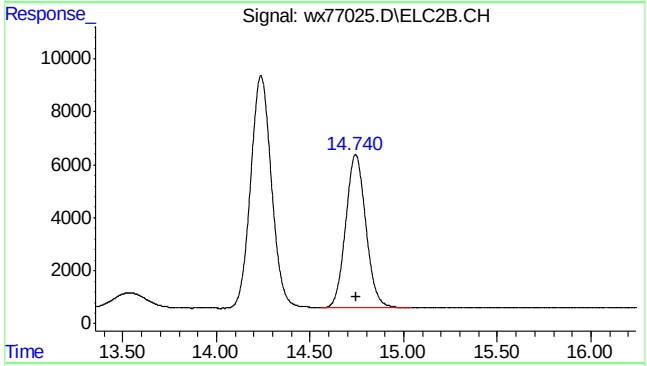
#14 mtbe #2

R.T.: 9.144 min
Delta R.T.: -0.047 min
Response: 211112
Conc: 48.39 ppb



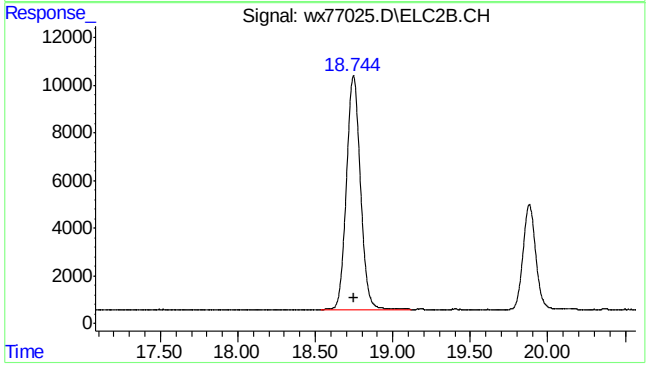
#15 benzene #2

R.T.: 14.237 min
Delta R.T.: -0.008 min
Response: 678959
Conc: 47.80 ppb



#16 fluorobenzene #2

R.T.: 14.742 min
Delta R.T.: -0.002 min
Response: 435459
Conc: 47.76 ppb



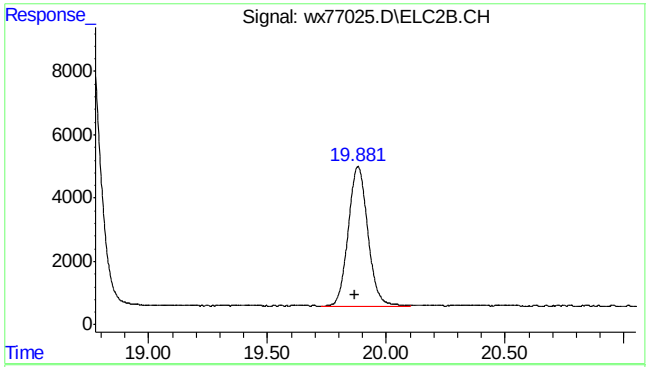
#17 toluene #2

R.T.: 18.746 min
Delta R.T.: -0.003 min
Response: 617957
Conc: 48.03 ppb

7.5.10

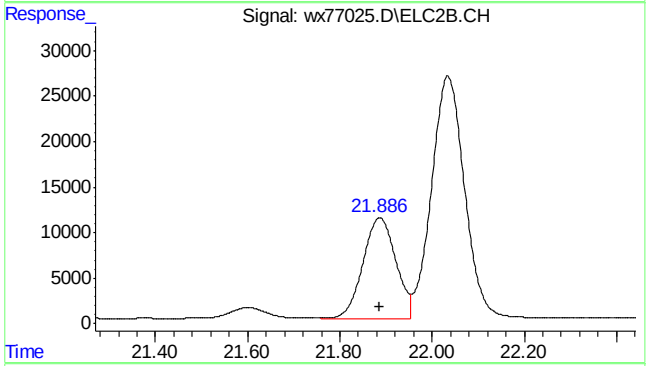
7

SGS ACCUTEST MC46340



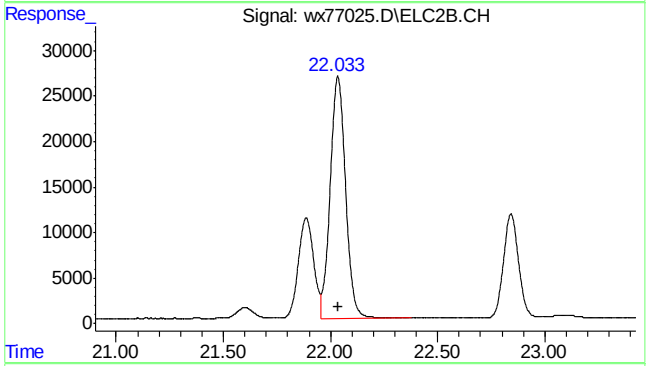
#18 2,3,4-trifluorotoluene #2

R.T.: 19.881 min
Delta R.T.: 0.012 min
Response: 251756
Conc: 46.09 ppb



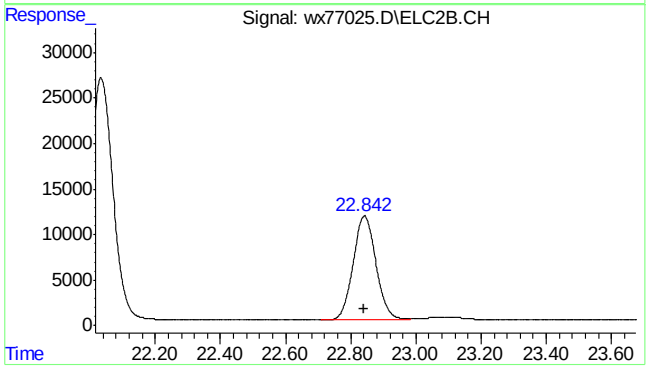
#19 ethylbenzene #2

R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 547240
Conc: 47.81 ppb



#20 m,p-xylene #2

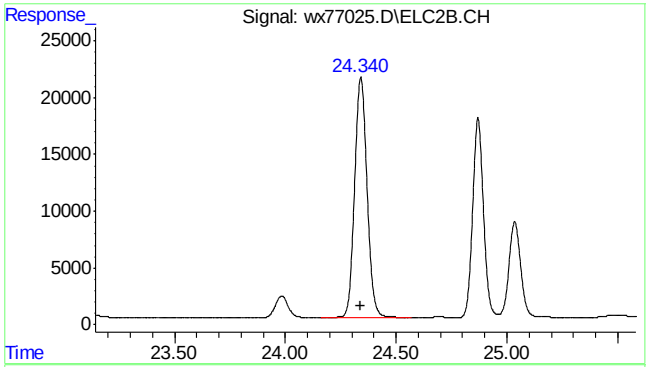
R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 1326976
Conc: 96.04 ppb



#21 o-xylene #2

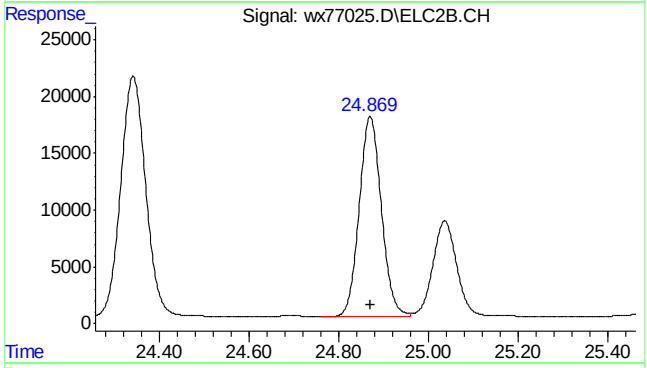
R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 560328
Conc: 48.24 ppb

SGS ACCUTEST MC46340



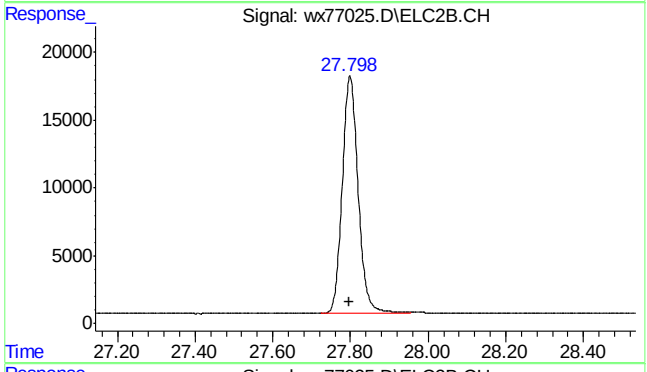
#22 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 822121
Conc: 48.23 ppb



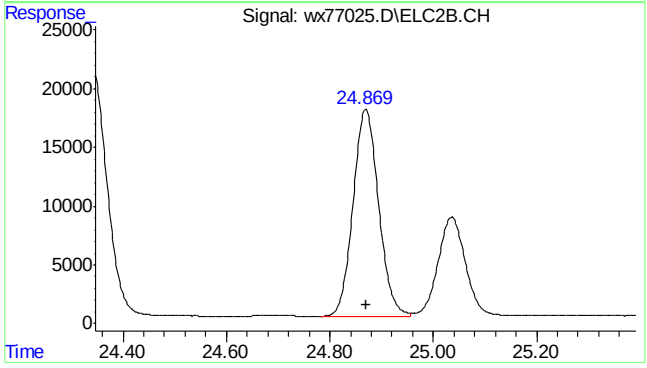
#23 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 604994
Conc: 47.84 ppb



#24 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.002 min
Response: 495364
Conc: 55.61 ppb m



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

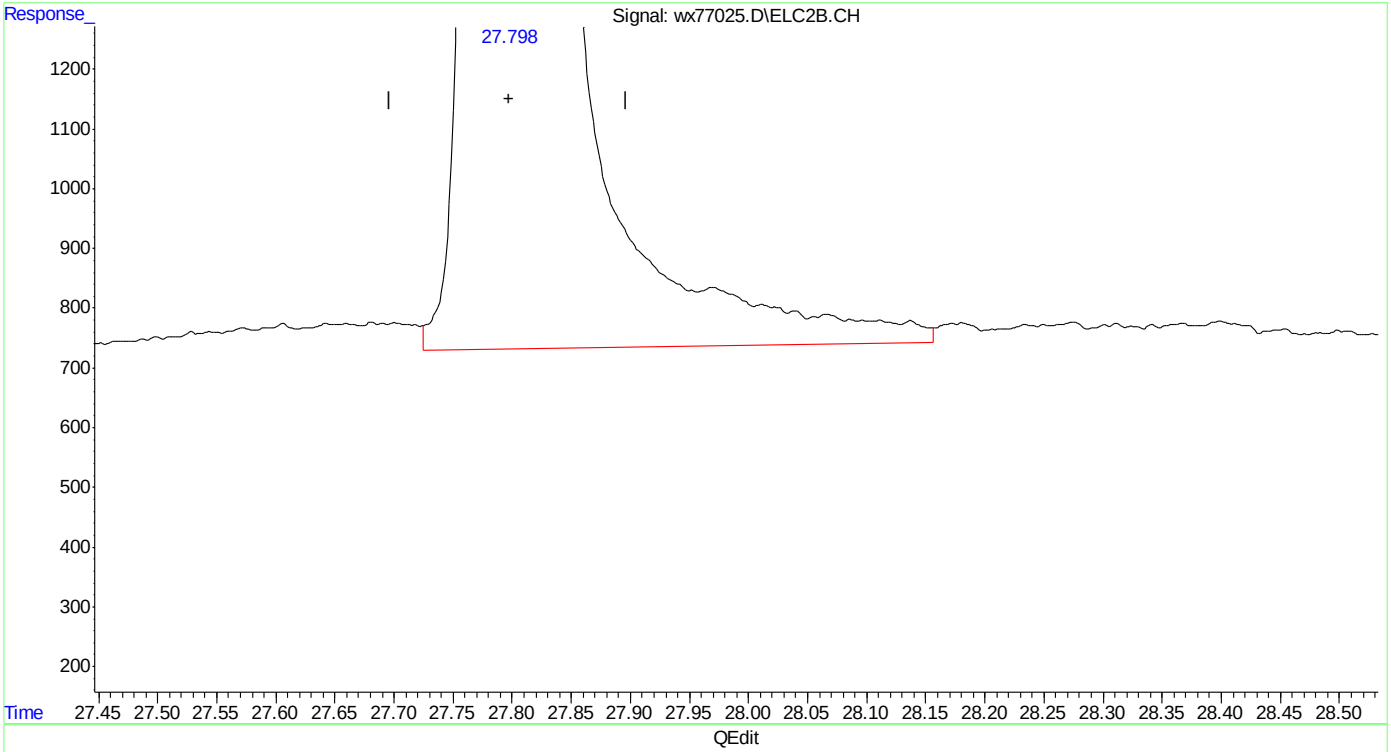
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 604244
Conc: 47.80 ppb m

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   1:06 pm
Operator  : tonyf
Sample    : icv3782-50,gv16404
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:46:22 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.799min 57.011 ppb

response 507838

(+) = Expected Retention Time

wx160602vph.M Thu Jun 02 13:47:01 2016

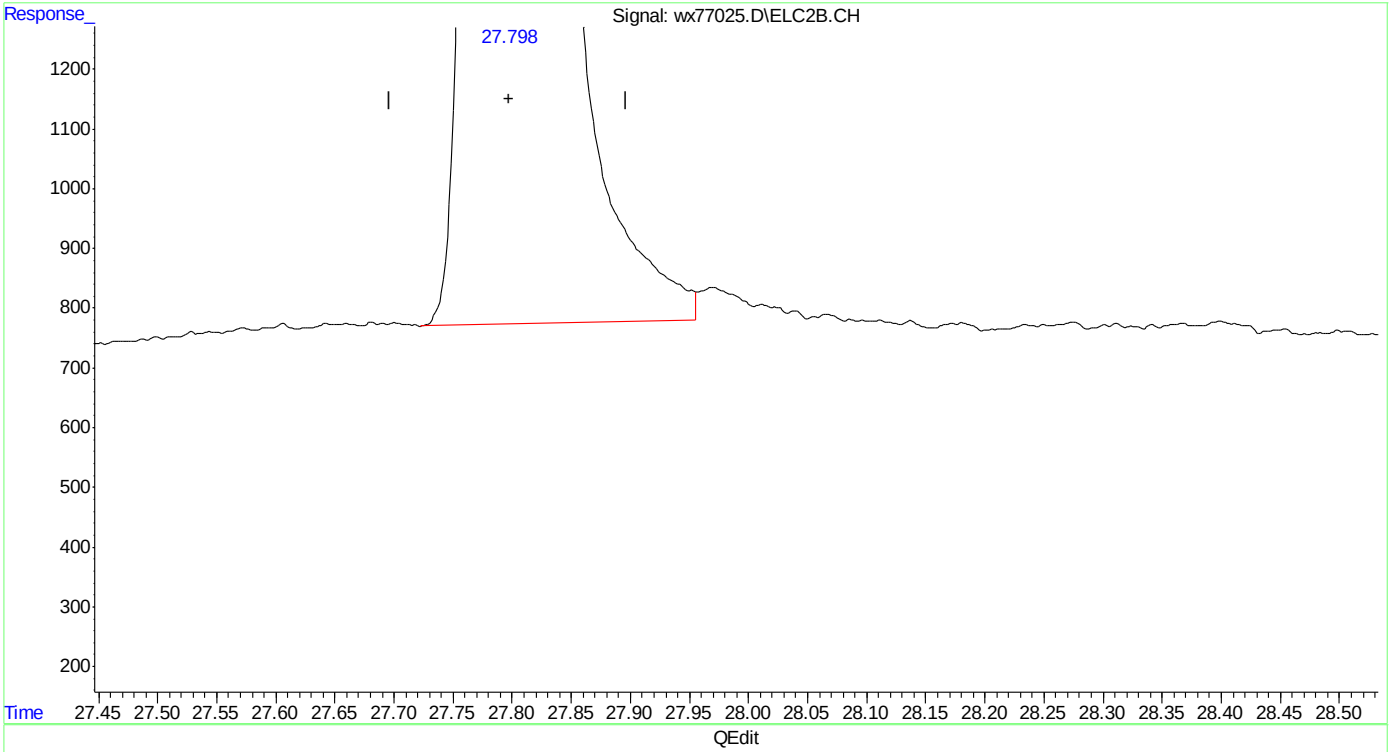
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   1:06 pm
Operator  : tonyf
Sample    : icv3782-50,gv16404
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:46:22 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.798min 55.611 ppb m

response 495364

(+) = Expected Retention Time

wx160602vph.M Thu Jun 02 13:47:07 2016

SGS ACCUTEST MC46340

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/14/16 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77105a.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:22 pm
Operator : tonyf
Sample : cc3782-50
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 13:53:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.748	1324110	46.855 ppb
Spiked Amount 50.000		Recovery =	93.71%
6) s 2,3,4-trifluorotoluene	19.888	1054031	45.996 ppb
Spiked Amount 50.000		Recovery =	91.99%
16) s fluorobenzene #2	14.747	427071	46.841 ppb
Spiked Amount 50.000		Recovery =	93.68%
18) s 2,3,4-trifluorotoluen...	19.888	242271	44.358 ppb
Spiked Amount 50.000		Recovery =	88.72%
Target Compounds			
1) h rt5.5-7	6.100	1069589	45.201 ppb
2) h rt7/10	8.370	1307218	55.244 ppb
3) h rt10/13	13.510	1068053	45.136 ppb
8) h rt20/25	21.600	1361297	37.981 ppb
10) h Decane	23.990	1298002	36.215 ppb
11) h Butylcyclohexane	25.040	1465065	40.876 ppb
14) mtbe #2	9.147	209939	48.119 ppb
15) benzene #2	14.240	661568	46.571 ppb
17) toluene #2	18.752	601320	46.742 ppb
19) ethylbenzene #2	21.894	528714	46.189 ppb
20) m,p-xylene #2	22.043	1291671	93.481 ppb
21) o-xylene #2	22.851	543130	46.763 ppb
22) t 1,3,5-trimethylbenzen...	24.349	753914	44.231 ppb
23) 1,2,4-trimethylbenzen...	24.878	583460	46.141 ppb
24) naphthalene #2	27.809	509540	57.202 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	583034	46.126 ppb

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

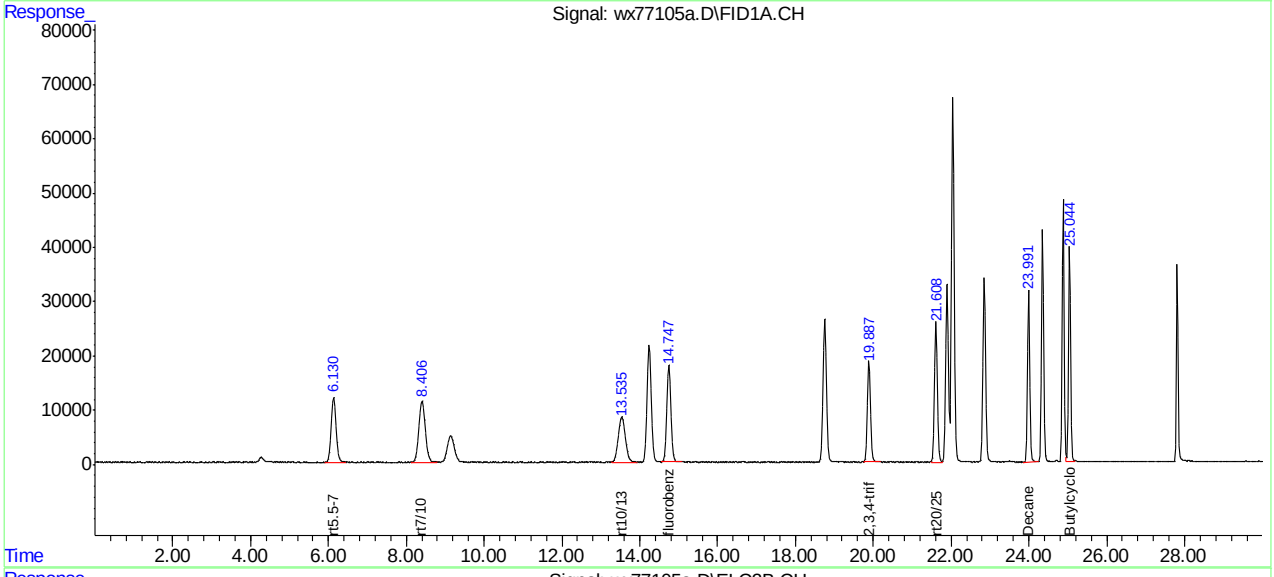
7.5.11
7

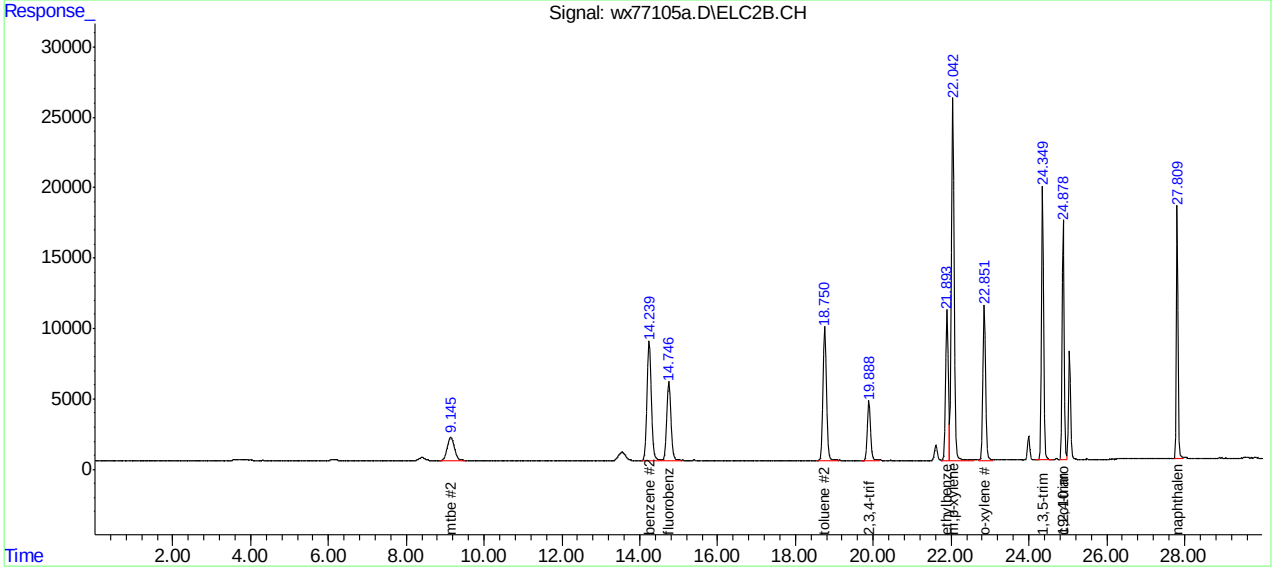
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77105a.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:22 pm
Operator : tonyf
Sample : cc3782-50
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

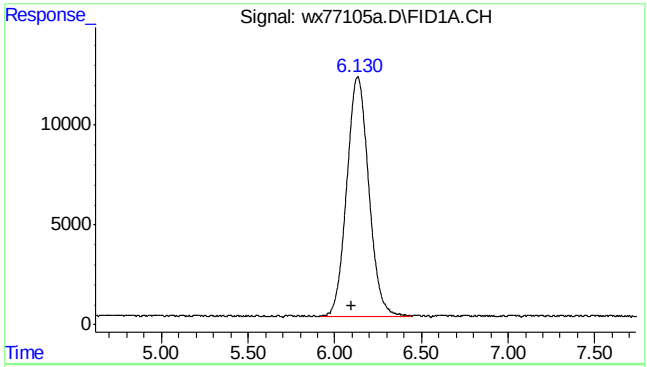
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 13:53:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



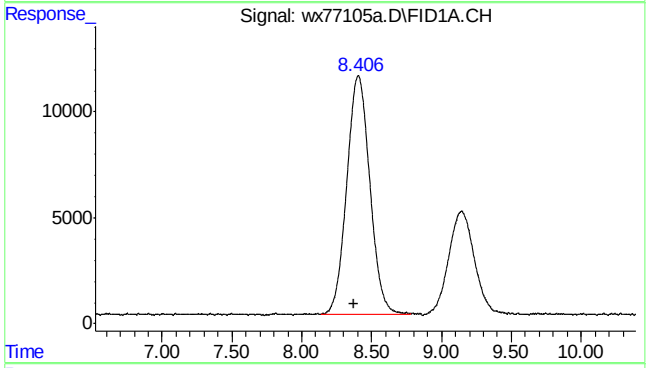


SGS ACCUTEST MC46340



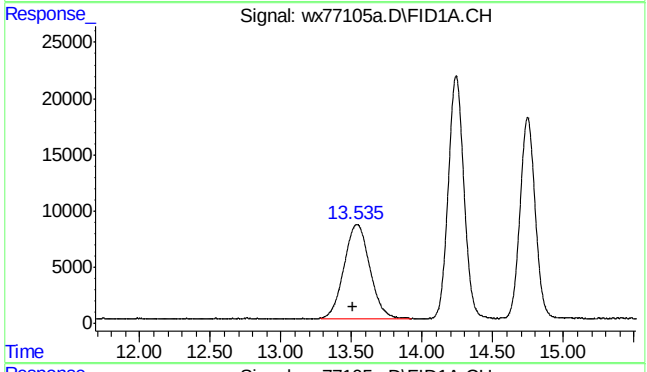
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1069589
Conc: 45.20 ppb m



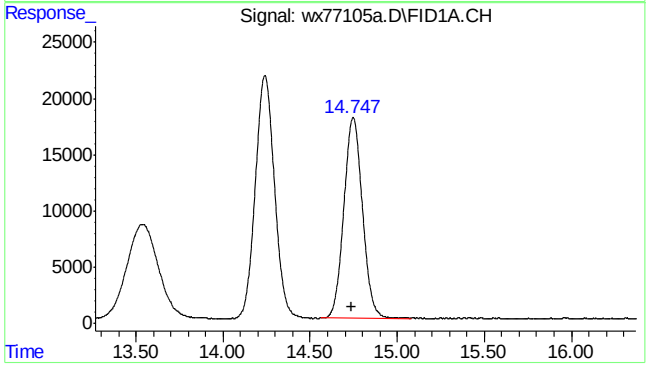
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1307218
Conc: 55.24 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1068053
Conc: 45.14 ppb m



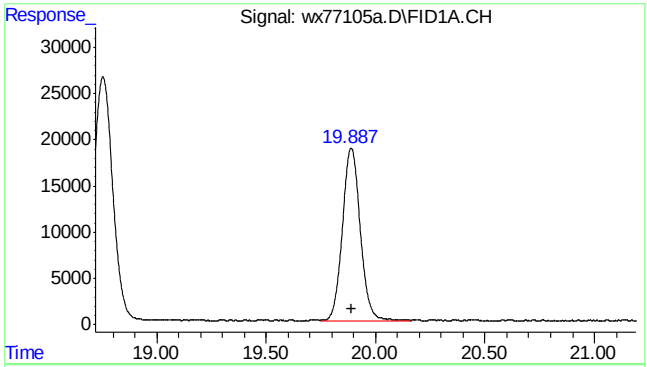
#4 fluorobenzene

R.T.: 14.748 min
Delta R.T.: 0.009 min
Response: 1324110
Conc: 46.86 ppb

7.5.11

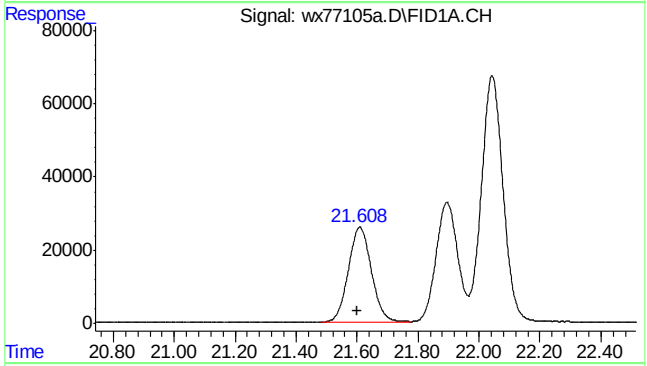
7

SGS ACCUTEST MC46340



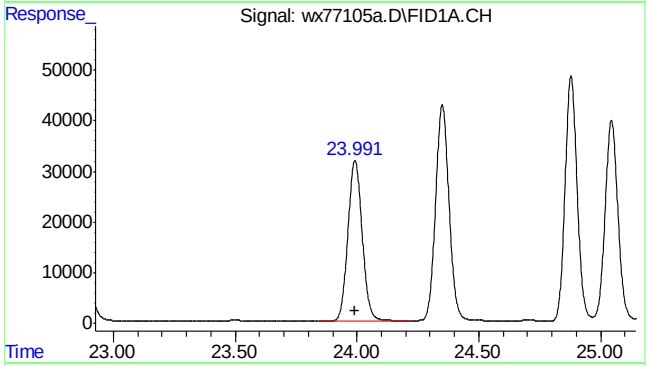
#6 2,3,4-trifluorotoluene

R.T.: 19.888 min
Delta R.T.: -0.002 min
Response: 1054031
Conc: 46.00 ppb



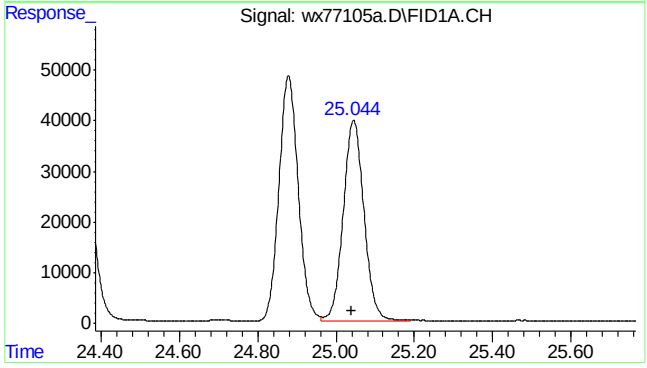
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1361297
Conc: 37.98 ppb m



#10 Decane

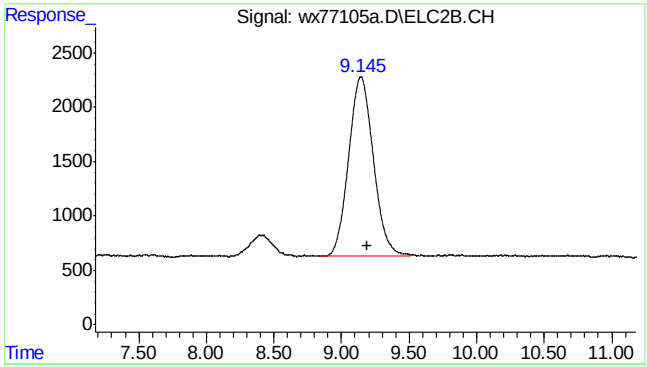
R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1298002
Conc: 36.21 ppb m



#11 Butylcyclohexane

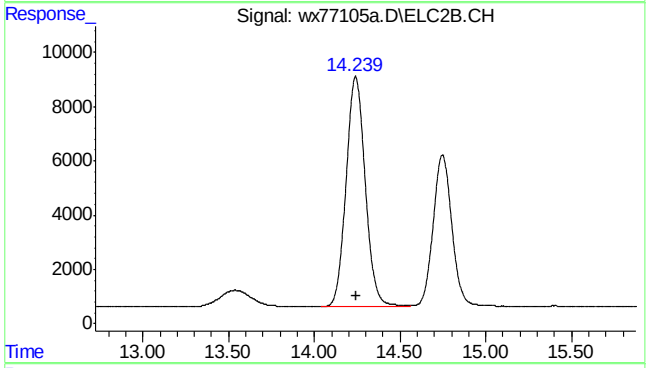
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1465065
Conc: 40.88 ppb m

SGS ACCUTEST MC46340



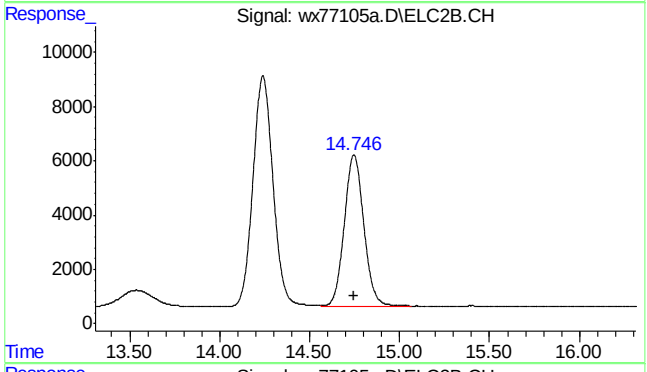
#14 mtbe #2

R.T.: 9.147 min
Delta R.T.: -0.045 min
Response: 209939
Conc: 48.12 ppb



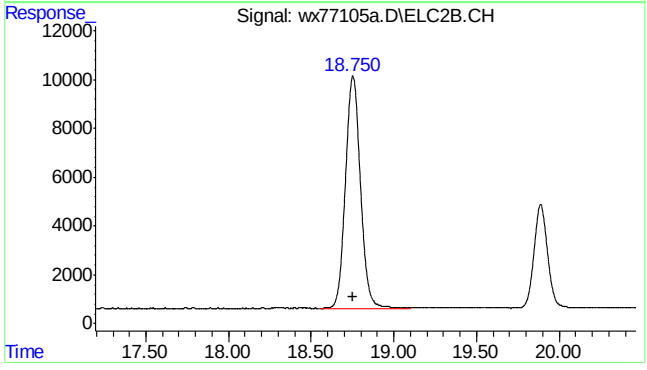
#15 benzene #2

R.T.: 14.240 min
Delta R.T.: -0.004 min
Response: 661568
Conc: 46.57 ppb



#16 fluorobenzene #2

R.T.: 14.747 min
Delta R.T.: 0.003 min
Response: 427071
Conc: 46.84 ppb

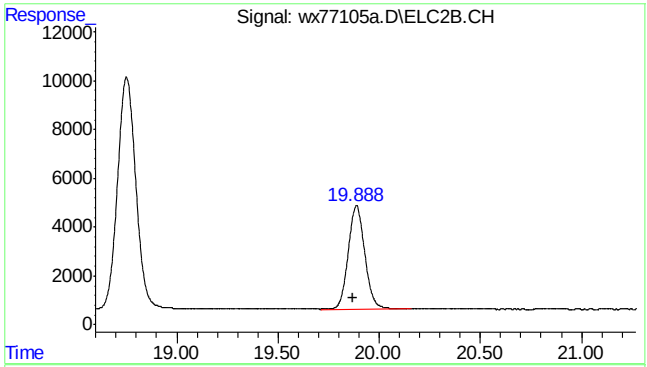


#17 toluene #2

R.T.: 18.752 min
Delta R.T.: 0.003 min
Response: 601320
Conc: 46.74 ppb

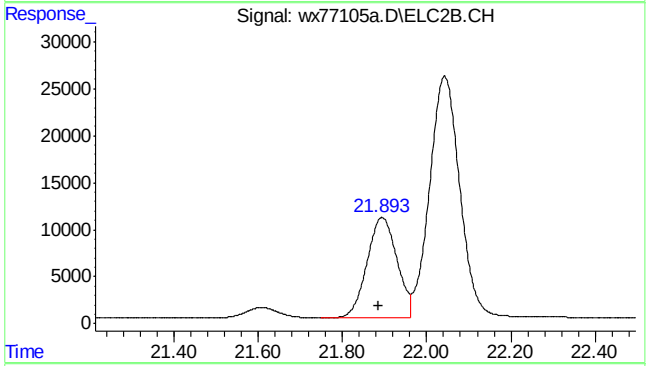
7.5.11

7



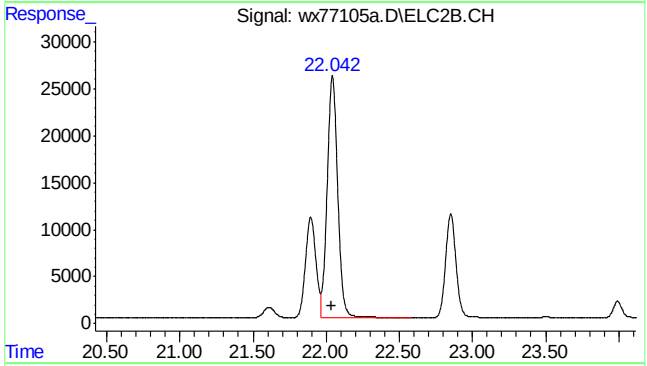
#18 2,3,4-trifluorotoluene #2

R.T.: 19.888 min
Delta R.T.: 0.019 min
Response: 242271
Conc: 44.36 ppb



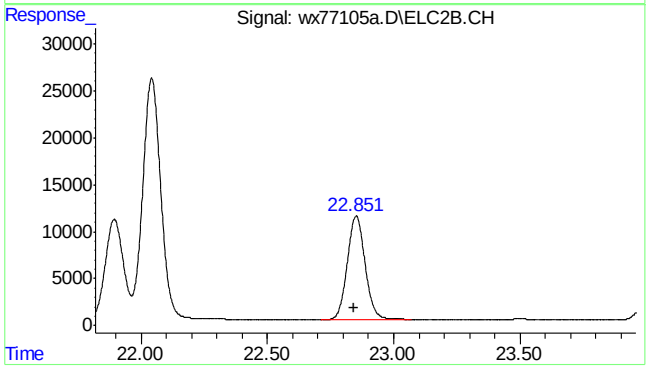
#19 ethylbenzene #2

R.T.: 21.894 min
Delta R.T.: 0.008 min
Response: 528714
Conc: 46.19 ppb



#20 m,p-xylene #2

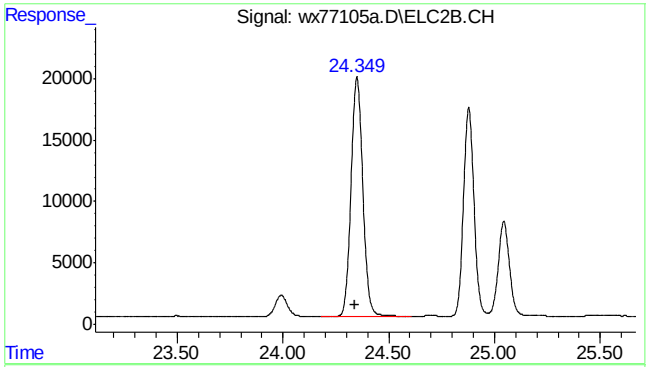
R.T.: 22.043 min
Delta R.T.: 0.009 min
Response: 1291671
Conc: 93.48 ppb



#21 o-xylene #2

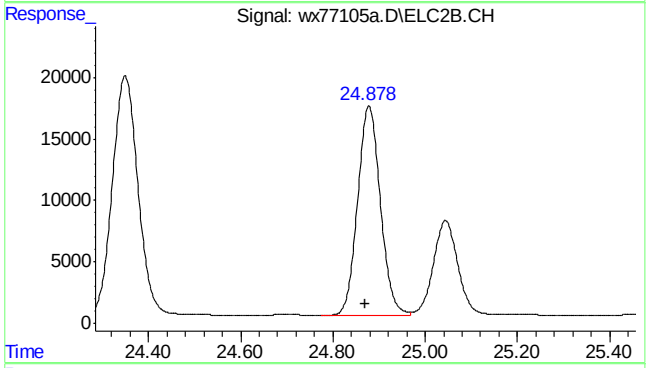
R.T.: 22.851 min
Delta R.T.: 0.009 min
Response: 543130
Conc: 46.76 ppb

SGS ACCUTEST MC46340



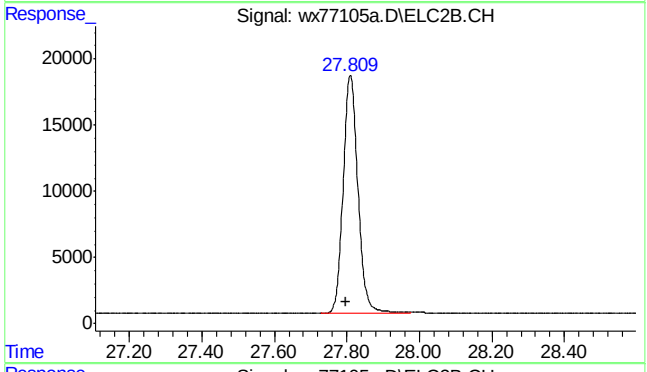
#22 1,3,5-trimethylbenzene #2

R.T.: 24.349 min
Delta R.T.: 0.009 min
Response: 753914
Conc: 44.23 ppb



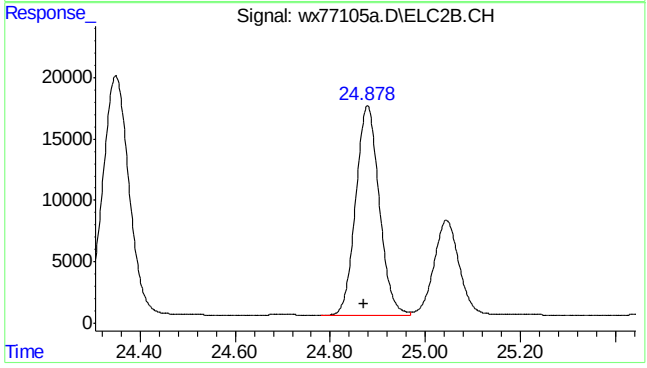
#23 1,2,4-trimethylbenzene #2

R.T.: 24.878 min
Delta R.T.: 0.008 min
Response: 583460
Conc: 46.14 ppb



#24 naphthalene #2

R.T.: 27.809 min
Delta R.T.: 0.012 min
Response: 509540
Conc: 57.20 ppb m



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

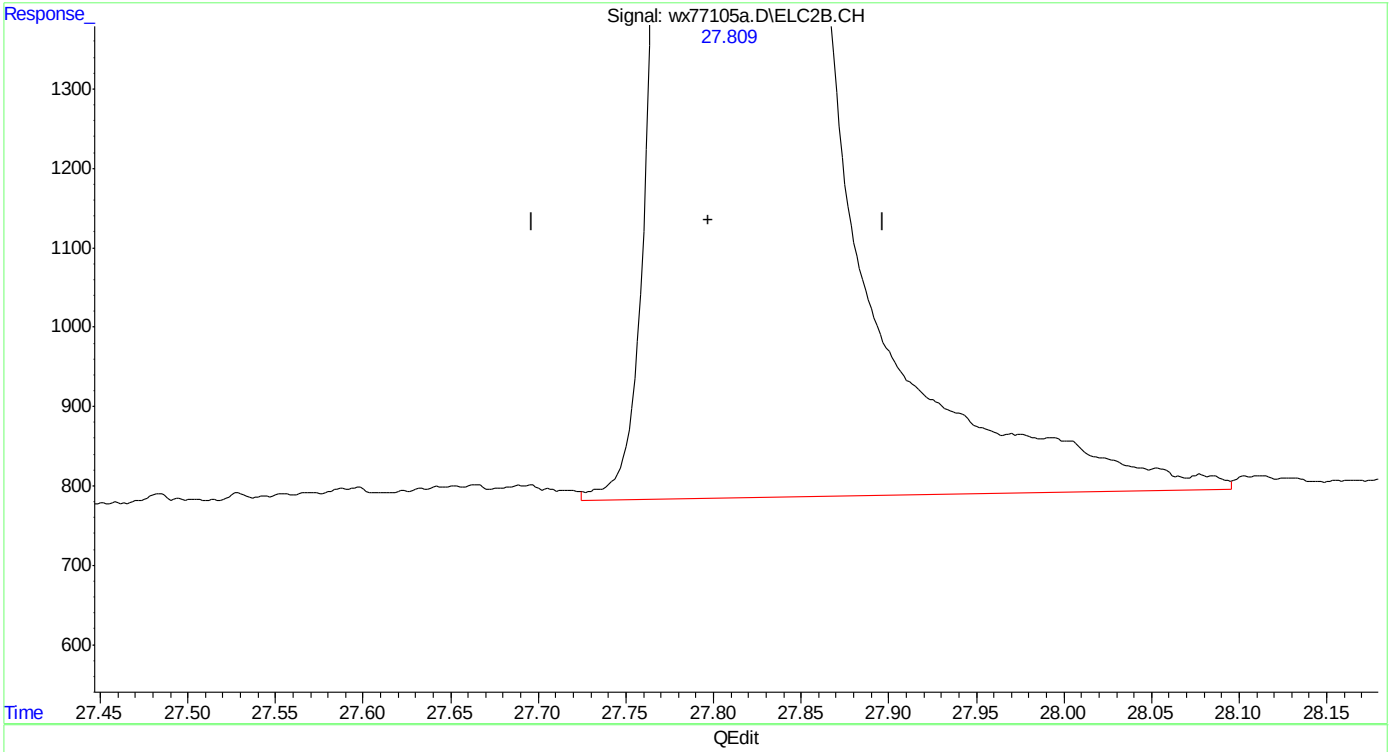
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 583034
Conc: 46.13 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77105a.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13 Jun 2016 1:22 pm
Operator : tonyf
Sample : cc3782-50
Misc : gc26361,gwx3791,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 13:53:07 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.810min 57.701 ppb
response 513983

(+) = Expected Retention Time
wx160613vph.M Mon Jun 13 13:53:49 2016

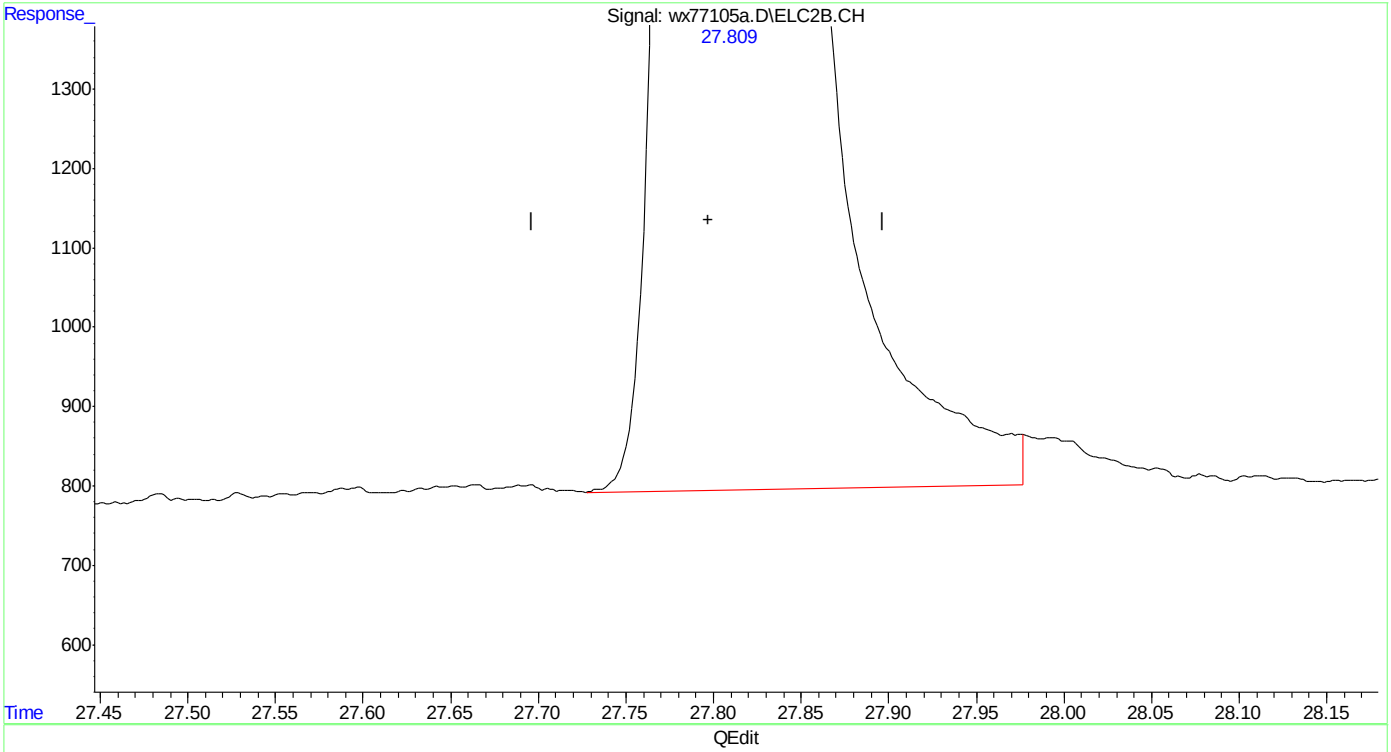
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77105a.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13 Jun 2016   1:22 pm
Operator  : tonyf
Sample    : cc3782-50
Misc      : gc26361,gwx3791,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 13 13:53:07 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.809min 57.202 ppb m

response 509540

(+) = Expected Retention Time

wx160613vph.M Mon Jun 13 13:53:53 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77128.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 7:14 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26366,gwx3791,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 07:52:20 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.751	1375542	48.675 ppb
Spiked Amount 50.000		Recovery =	97.35%
6) s 2,3,4-trifluorotoluene	19.890	1094371	47.757 ppb
Spiked Amount 50.000		Recovery =	95.51%
16) s fluorobenzene #2	14.751	429412	47.098 ppb
Spiked Amount 50.000		Recovery =	94.20%
18) s 2,3,4-trifluorotoluen...	19.890	248537	45.506 ppb
Spiked Amount 50.000		Recovery =	91.01%
Target Compounds			
1) h rt5.5-7	6.100	1037984	43.866 ppb
2) h rt7/10	8.370	1318149	55.705 ppb
3) h rt10/13	13.510	1069559	45.200 ppb
8) h rt20/25	21.600	1366785	38.134 ppb
10) h Decane	23.990	1293510	36.089 ppb
11) h Butylcyclohexane	25.040	1455680	40.614 ppb
14) mtbe #2	9.145	205623	47.130 ppb
15) benzene #2	14.246	668197	47.038 ppb
17) toluene #2	18.755	612386	47.602 ppb
19) ethylbenzene #2	21.895	539357	47.119 ppb
20) m,p-xylene #2	22.043	1308889	94.727 ppb
21) o-xylene #2	22.851	553805	47.682 ppb
22) t 1,3,5-trimethylbenzen...	24.348	769423	45.141 ppb
23) 1,2,4-trimethylbenzen...	24.876	594792	47.037 ppb
24) naphthalene #2	27.805	513285	57.623 ppb
25) h c9-c10 arom as 1,2,4-tmb	24.870	594385	47.024 ppb

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

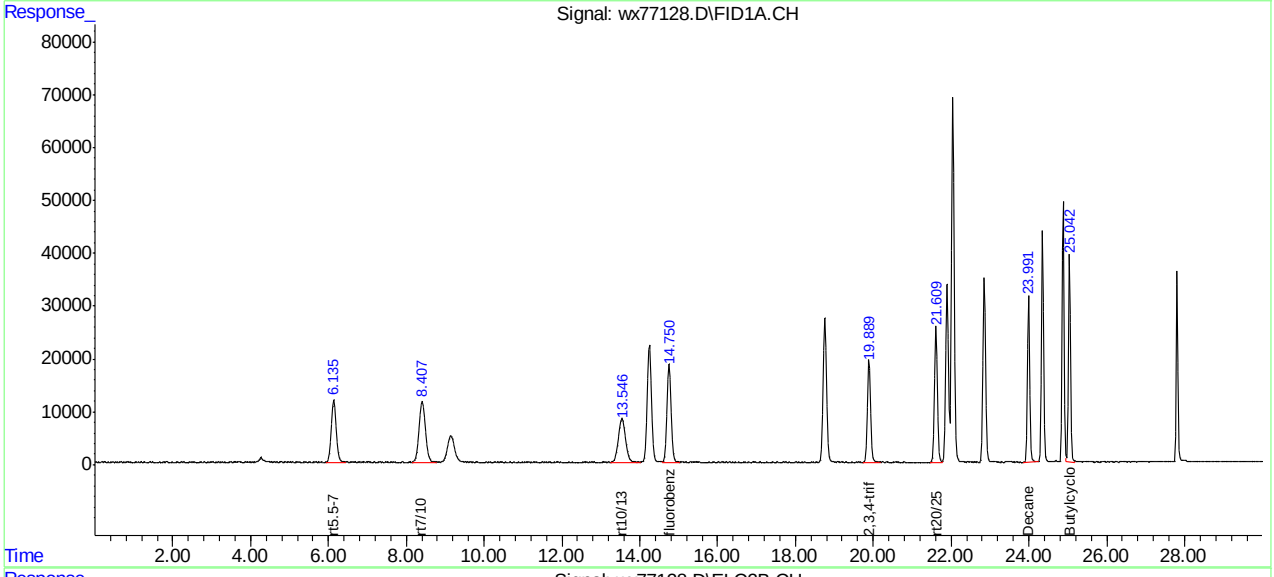
SGS ACCUTEST MC46340

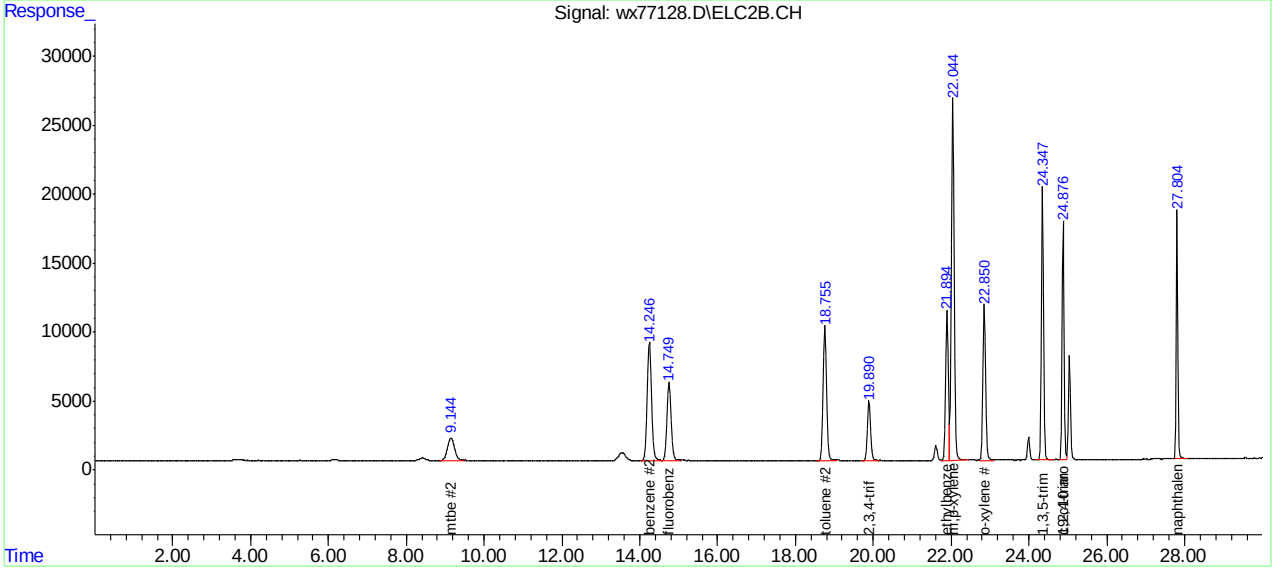
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160613\
Data File : wx77128.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Jun 2016 7:14 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26366,gwx3791,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

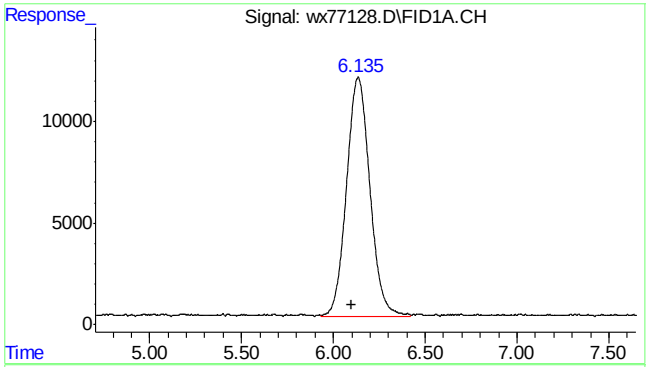
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 14 07:52:20 2016
Quant Method : C:\msdchem\1\METHODS\wx160613vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



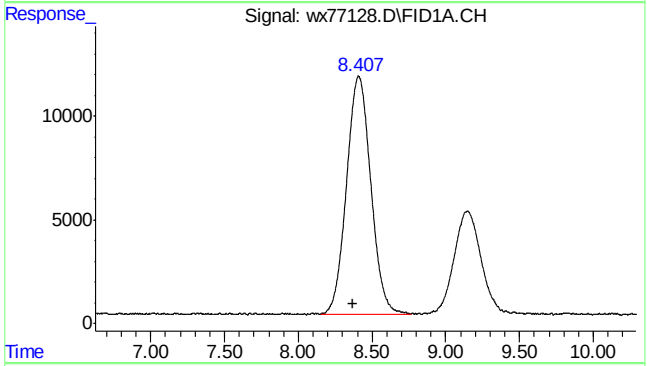


SGS ACCUTEST MC46340



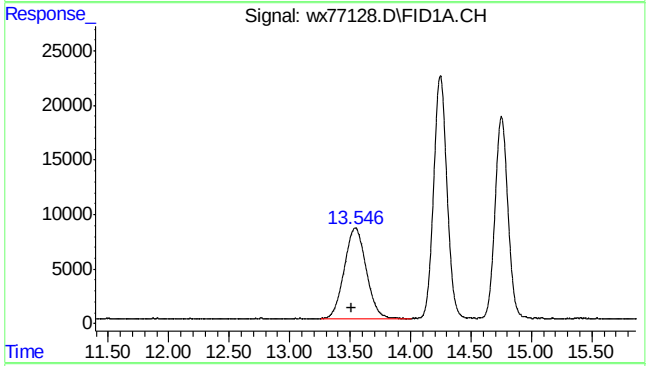
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1037984
Conc: 43.87 ppb m



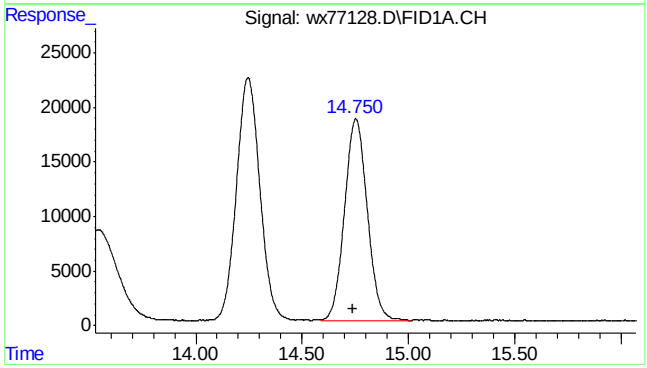
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1318149
Conc: 55.71 ppb m



#3 rt10/13

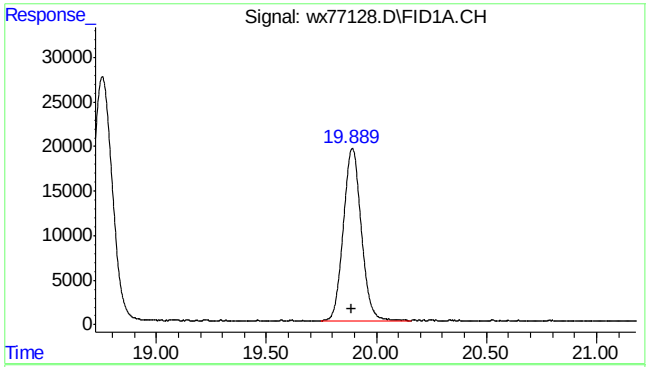
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1069559
Conc: 45.20 ppb m



#4 fluorobenzene

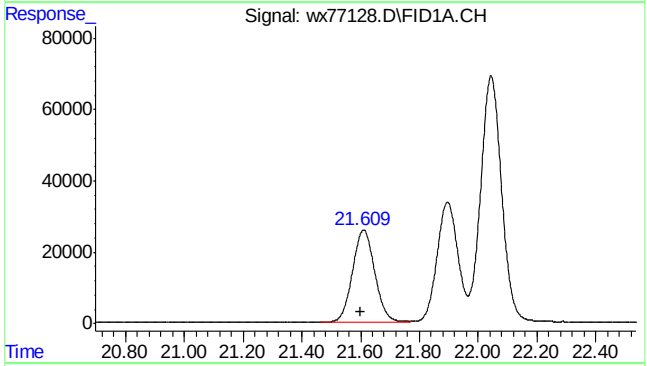
R.T.: 14.751 min
Delta R.T.: 0.013 min
Response: 1375542
Conc: 48.68 ppb

SGS ACCUTEST MC46340



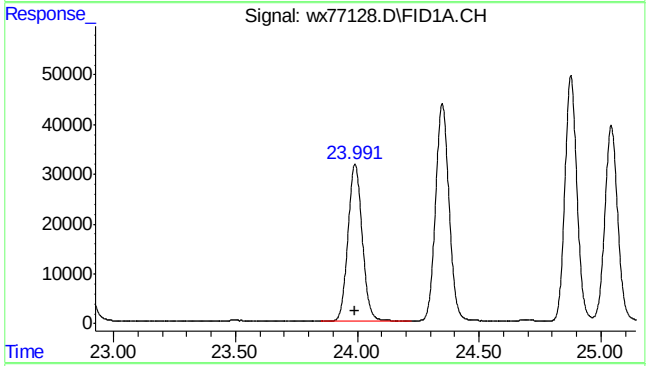
#6 2,3,4-trifluorotoluene

R.T.: 19.890 min
Delta R.T.: 0.000 min
Response: 1094371
Conc: 47.76 ppb



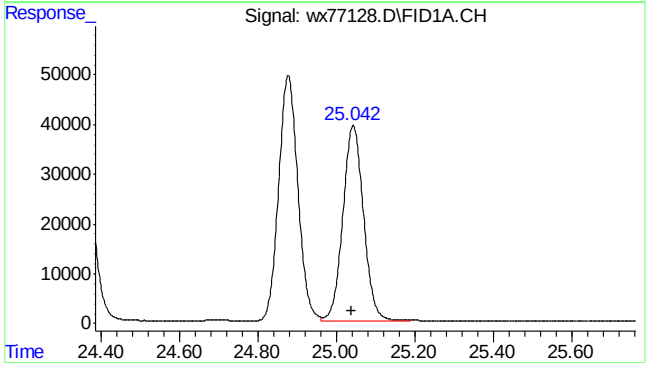
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1366785
Conc: 38.13 ppb m



#10 Decane

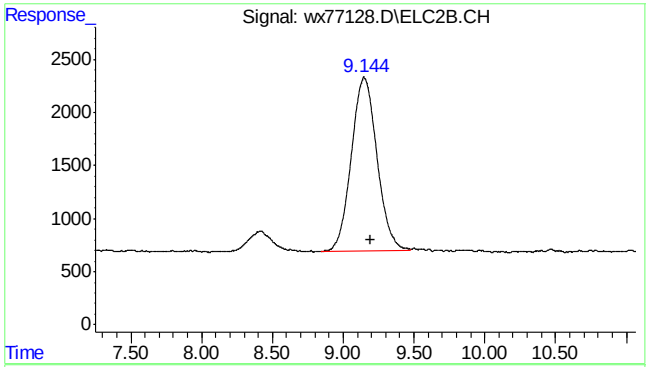
R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1293510
Conc: 36.09 ppb m



#11 Butylcyclohexane

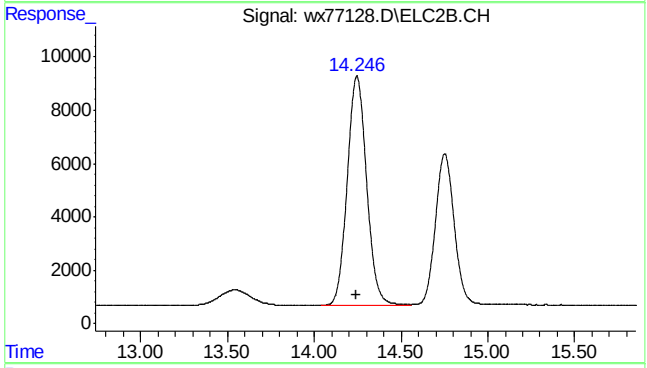
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1455680
Conc: 40.61 ppb m

SGS ACCUTEST MC46340



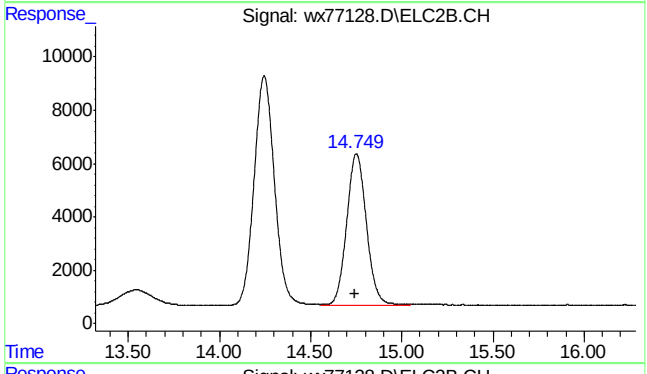
#14 mtbe #2

R.T.: 9.145 min
Delta R.T.: -0.047 min
Response: 205623
Conc: 47.13 ppb



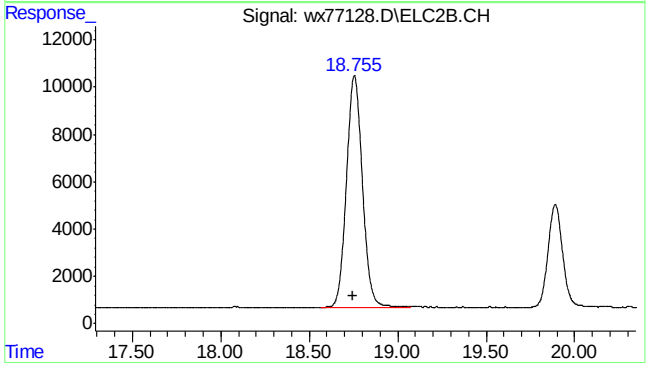
#15 benzene #2

R.T.: 14.246 min
Delta R.T.: 0.000 min
Response: 668197
Conc: 47.04 ppb



#16 fluorobenzene #2

R.T.: 14.751 min
Delta R.T.: 0.007 min
Response: 429412
Conc: 47.10 ppb

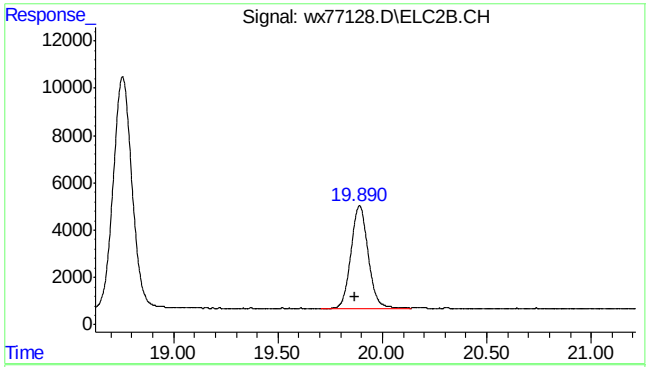


#17 toluene #2

R.T.: 18.755 min
Delta R.T.: 0.006 min
Response: 612386
Conc: 47.60 ppb

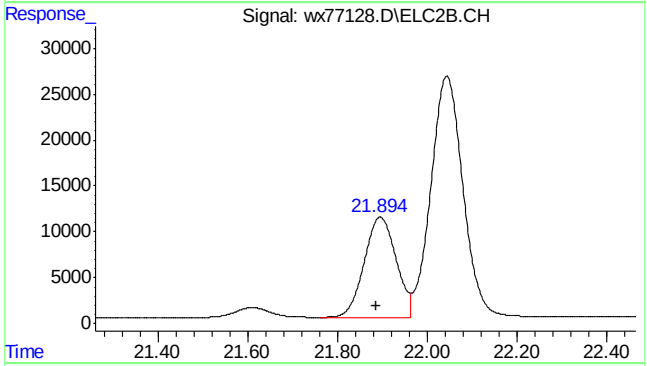
7.5.12

7



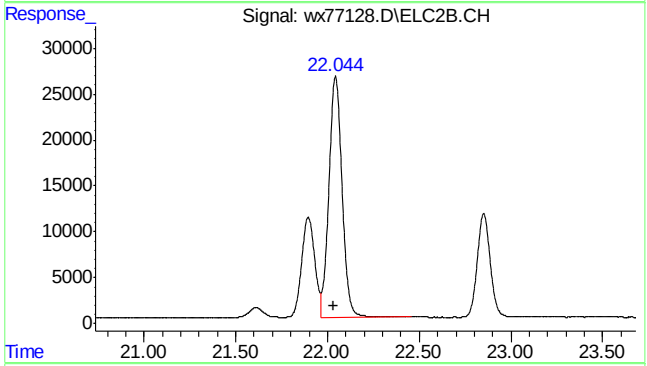
#18 2,3,4-trifluorotoluene #2

```
      R.T.:   19.890 min
Delta R.T.:    0.021 min
  Response:    248537
      Conc:  45.51 ppb
```



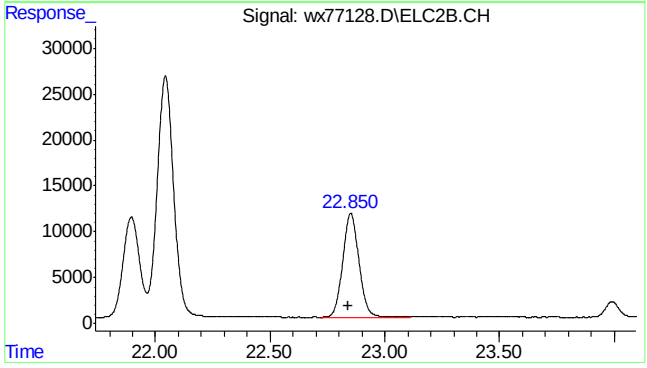
#19 ethylbenzene #2

```
      R.T.:   21.895 min
Delta R.T.:    0.009 min
  Response:    539357
      Conc:  47.12 ppb
```



#20 m,p-xylene #2

```
      R.T.:   22.043 min
Delta R.T.:    0.009 min
  Response:   1308889
      Conc:  94.73 ppb
```



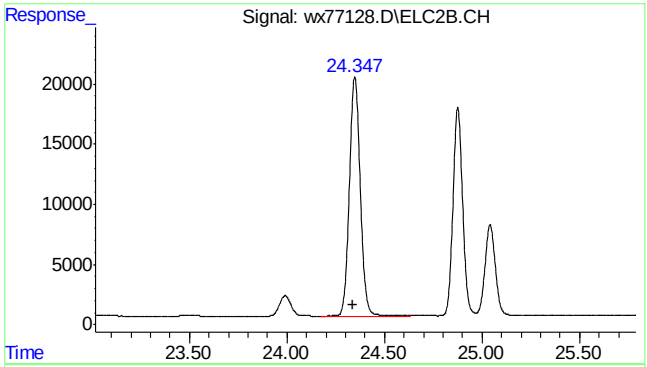
#21 o-xylene #2

```
      R.T.:   22.851 min
Delta R.T.:    0.009 min
  Response:    553805
      Conc:  47.68 ppb
```

7.5.12

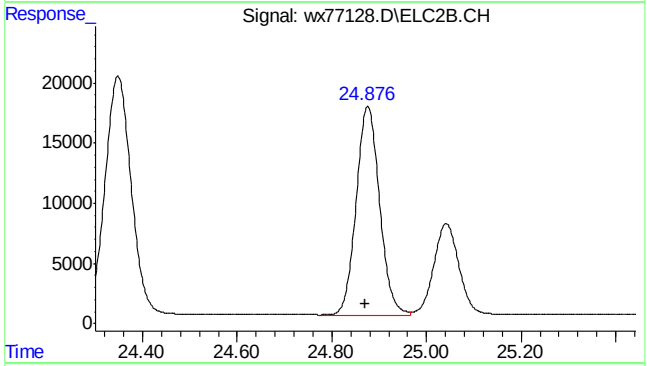
7

SGS ACCUTEST MC46340



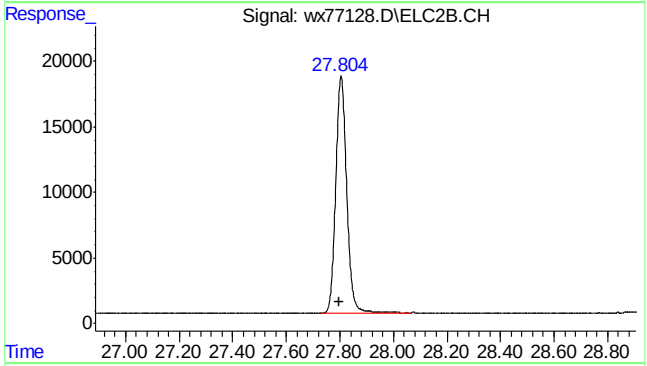
#22 1,3,5-trimethylbenzene #2

R.T.: 24.348 min
Delta R.T.: 0.008 min
Response: 769423
Conc: 45.14 ppb



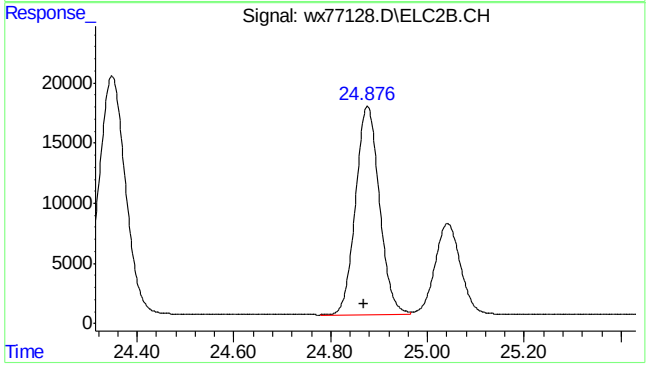
#23 1,2,4-trimethylbenzene #2

R.T.: 24.876 min
Delta R.T.: 0.006 min
Response: 594792
Conc: 47.04 ppb



#24 naphthalene #2

R.T.: 27.805 min
Delta R.T.: 0.008 min
Response: 513285
Conc: 57.62 ppb



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 594385
Conc: 47.02 ppb m

ACCUTEST LABORATORIES

Instrument: GC 19 (WX)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 6/2/16 Analyst Signature: aef

Standards Data

Lot #	Description	Conc
Vmaoph	qc 26310 gwx	3782
V8015gro	qc 26317 gwx	3783
V8021 btxmw	qc 26318 gwx	3784
V8015gro mix	qc 26319	gwx3785
qv 16404	2ND Source 50ug/ml	7/8/16

Standards Data

Lot #	Description	Conc
qv 16384	cc 1000 250ug/ml	6/16/16
qv 16385	5mg	
qv 16401	std 50/50 ug/ml	7/8/16
qv 16402	5/5	
qv 16403	1/1	

Column: mtx 502.2
Method: wxvpH1
GC Seq. File: wx 160602
Method Files:
wx160602 VPH mastr
wx160602 VPH cc 3782-50
AS Seq. File: V8015gro cc3783-650
Seq. Verification: V8021btxmw cc3784-50

Date of ICAL: 6-2-16 ICAL Verified:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
wx 77,016	ic 3782-1000	N/A	qc26310	Vmaoph	1	W	5ml ab 1000ul qv 16401	5ml	N/A	N/A	50/50 ug/ml std
17	-500				2		500ul	N/A			
18	-250				3		250ul				
19	-100				4		100ul				
20	icc3782-50				5		5ml				
21	ic3782-10				6		5ml of 100ul qv16402	5ml			5/5 ug/ml std
22	-5				7		5ml				
23	-2				8		100ul qv16403	5ml			1.0/1.0 ug/ml std
24	-1				9		5ml			4/4/16	~~50ug/ml 2nd source~~
25	icv 3782-50				10		5ml + 5ml qv 16404			OK	50ug/ml 2nd source
26	cc3782-50				11		1ml qv16384				ok not needed
27	mb				12 3		1ml qv16385				OK
28	bsp				13 4		1ml qv16384				OK
29	bsd				14 5						OK

qc 26310	gwx 3782	Vmaoph	cc 3782-50	1.0-1000 ppb		
qc 26317	gwx 3783	V8015gro	cc 3783-650	65 ppb - 13,000 ppb		
qc 26318	gwx 3784	V8021 btxmw Avout	cc 3784-50	1.0-1000 ppb		
qc 26319	gwx 3785	V8015gro mix	cc 3785-750	15-15,000 ppb		

GC001-05 Date: 12/02/08 Dilution Solvent:_____ Lot Number:_____ 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, for water.

ACCUTEST LABORATORIES

Instrument: GC 19 (WX)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 6/6/16 Analyst Signature: cof

Standards Data

Lot #	Description	Conc
V8021btxm	qc 263818 qc	x37884
NO	6/6/16	
Vmauph	qc 263 qc	x3784
NO	263 10 qc	x3782
	A labels	

Standards Data

Lot #	Description	Conc
qv16384	cc/bsp 250ug/ml	6/6/16
qv16385	Sun ↓	↓

Column: mtx502.2
Method: wxvpH1 Autech.65 in V8160603
GC Seq. File: wx160606.5
Method Files:
wx160606 V8021btxmN cc3784-50
wx160606 VPH cc 3782-50
AS Seq. File:

Date of ICAL: ICAL Verified: Seq. Verification:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
✓ 5x77,038	A Concal 5x	N/A	qc26318	V8021btx	1	W	1ml qv16384	N/A	N/A	N/A	
386	A mb	↓	qc26310	vmauph	2	↓	1ml qv16385	↓	↓	↓	
387	A bsp	↓	↓	↓	3	↓	1ml qv16384	↓	↓	↓	
388	A bsd	↓	↓	↓	4	↓	↓	↓	↓	↓	
389	mc 46203-1	1	qc26318	V8021btx	5	↓	5mL	↓	↓	<2	
390	mc46225-1	1	qc26310	vmauph	6	↓	↓	↓	↓	↓	
391	↓ -1ms	1	↓	↓	6	↓	+1mlq	V16384	↓	↓	
392	↓ -1msD	2	↓	↓	7	↓	↓	↓	↓	↓	
393	mc46203-1 ms	1	qc26318	V8021btx	8	↓	↓	↓	↓	↓	
394	↓ -1msD	2	↓	↓	9	↓	↓	↓	↓	↓	
395	A Concal 50	N/A	qc26310	vmauph	10	↓	1ml qv16384	↓	↓	N/A	
396	mc 46235-2	1	↓	↓	11	↓	5ml	↓	↓	<2	
397	↓ -3	1	↓	↓	12	↓	↓	↓	↓	↓	
398	Concal 50	N/A	↓	↓	13	↓	1ml qv16384	↓	↓	N/A	

6/6/16

GC001-05 Date: 12/02/08 Dilution Solvent: _____ Lot Number: 216315 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, ml for water.

Response Factor Report GCWX

Method : C:\msdchem\1\MET...60602vphmaster.M (Chemstation Integrator)
Title : vph - master
Last Update : Thu Jun 02 13:35:01 2016
Response via : Initial Calibration

6/2/16 ae
original curve

Calibration Files
1 =wx77024.D 2 =wx77023.D 3 =wx77022.D 4 =wx77021.D
5 =wx77020.D 6 =wx77019.D 7 =wx77018.D 8 =wx77017.D
9 =wx77016.D =

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) rt5.5-7	2.277	2.234	2.378	2.368	2.132	2.087	2.030	1.921	1.658	2.121 E4	10.90
2) rt7/10	3.117	2.866	3.019	3.031	2.808	2.765	2.722	2.719	2.613	2.851 E4	5.96
3) mtbe	1.308	1.334	1.349	1.380	1.281	1.258	1.198	1.157	1.078	1.260 E4	7.84
4) rt10/13	2.744	2.861	2.870	2.853	2.146	1.883	1.525	1.261	1.003	2.127 E4	34.99
5) benzene	3.802	3.548	3.581	3.605	3.514	3.514	3.475	3.570	3.555	3.574 E4	2.64
6) fluorobenzene	2.843	2.798	2.829	2.803	2.803	2.826	2.794	2.870	2.867	2.826 E4	1.03
7) rt13/16										0.000	-1.00
8) toluene	3.469	3.521	3.535	3.542	3.458	3.421	3.389	3.487	3.465	3.476 E4	1.48
9) 2,3,4-trifluorotoluene	2.409	2.462	2.305	2.247	2.269	2.220	2.199	2.266	2.246	2.292 E4	3.83
10) rt16/20										0.000	-1.00
11) rt20/25	4.962	4.662	3.620	3.605	3.144	3.088	2.964	3.018	2.844	3.545 E4	21.71
12) rt25/29										0.000	-1.00
13) ethylbenzene	3.632	3.502	3.478	3.504	3.421	3.375	3.321	3.415	3.397	3.449 E4	2.65
14) m,p-xylene	3.784	3.598	3.630	3.598	3.517	3.483	3.424	3.514	3.469	3.558 E4	3.06
15) o-xylene	3.875	3.612	3.634	3.568	3.475	3.435	3.424	3.497	3.438	3.551 E4	4.07
16) Decane	4.684	4.871	3.648	3.812	3.185	3.087	2.911	2.837	2.043	3.453 E4	26.22
17) 1,3,5-trimethylbenzene	4.100	3.893	3.757	3.749	3.664	3.640	3.598	3.601	3.390	3.710 E4	5.42
18) 1,2,4-trimethylbenzene	3.811	3.751	3.597	3.645	3.486	3.445	3.406	3.406	3.205	3.528 E4	5.41
19) Butylcyclohexane	5.120	5.089	3.793	3.905	3.346	3.279	3.173	3.176	2.907	3.754 E4	21.99
20) naphthalene	1.098	1.385	1.696	1.888	2.135	2.113	2.031	1.785	1.404	1.726 E4	21.05
21) 2,5-dibromotoluene										0.000	-1.00

Signal #2

23) mtbe #2	5.014	4.776	4.610	4.537	4.422	4.275	4.100	3.939	3.594	4.363 E3	10.05
24) benzene #2	1.476	1.453	1.445	1.438	1.407	1.403	1.383	1.404	1.376	1.421 E4	2.38
25) fluorobenzene #2	9.835	9.129	9.022	9.017	9.026	9.033	8.913	9.116	8.964	9.117 E3	3.04
26) toluene #2	1.302	1.342	1.300	1.293	1.288	1.276	1.249	1.278	1.250	1.286 E4	2.21
27) 2,3,4-trifluorotoluene #2	6.444	5.849	5.448	5.327	5.303	5.217	5.114	5.272	5.182	5.462 E3	7.81
28) ethylbenzene #2	1.213	1.190	1.161	1.151	1.138	1.130	1.104	1.121	1.093	1.145 E4	3.41
29) m,p-xylene #2	1.466	1.472	1.412	1.413	1.387	1.365	1.311	1.333	1.278	1.382 E4	4.84
30) o-xylene #2	1.235	1.153	1.179	1.183	1.165	1.155	1.131	1.146	1.106	1.161 E4	3.12
31) 1,3,5-trimethylbenzene #2											

```
          1.905 1.792 1.737 1.748 1.703 1.688 1.644 1.624 1.500   1.704 E4    6.66
32)  1,2,4-trimethylbenzene #2
          1.431 1.322 1.292 1.289 1.254 1.250 1.222 1.209 1.112   1.265 E4    6.90
33)  naphthalene #2
          0.683 0.782 0.889 0.976 1.061 1.060 1.006 0.876 0.683   0.891 E4   16.68
34)  c9-c10 arom as 1,2,4-tmb
          1.432 1.323 1.289 1.288 1.253 1.249 1.221 1.209 1.112   1.264 E4    6.93
35)  2,5-dibromotoluene #2
                                                                  0.000   -1.00
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          wx160602vphmaster.M        Thu Jun 02 13:35:21 2016
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7.6.1

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6/2/16
aj

SGS ACCUTEST MC46340

Response Factor Report GCWX

Method : C:\msdchem\1\METHODS\wx160602vph.M (Chemstation Integrator)
Title : vph
Last Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration

6/2/16 ccq
VPH Curve

Calibration Files
1 =wx77024.D 2 =wx77023.D 3 =wx77022.D 4 =wx77021.D
5 =wx77020.D 6 =wx77019.D 7 =wx77018.D 8 =wx77017.D
9 =wx77016.D =

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) rt5.5-7					2.366				2.366	2.366 E4	0.00
2) rt7/10					2.366				2.366	2.366 E4	0.00
3) rt10/13					2.366				2.366	2.366 E4	0.00
4) fluorobenzene	2.843	2.798	2.829	2.803	2.803	2.826	2.794	2.870	2.867	2.826 E4	1.03
5) rt13/16										0.000	-1.00
6) 2,3,4-trifluorotoluene	2.409	2.462	2.305	2.247	2.269	2.220	2.199	2.266	2.246	2.292 E4	3.83
7) rt16/20										0.000	-1.00
8) rt20/25					3.584				3.584	3.584 E4	0.00
9) rt25/29										0.000	-1.00
10) Decane					3.584				3.584	3.584 E4	0.00
11) Butylcyclohexane					3.584				3.584	3.584 E4	0.00
12) 2,5-dibromotoluene										0.000	-1.00
Signal #2											
14) mtbe #2	5.014	4.776	4.610	4.537	4.422	4.275	4.100	3.939	3.594	4.363 E3	10.05
15) benzene #2	1.476	1.453	1.445	1.438	1.407	1.403	1.383	1.404	1.376	1.421 E4	2.38
16) fluorobenzene #2	9.835	9.129	9.022	9.017	9.026	9.033	8.913	9.116	8.964	9.117 E3	3.04
17) toluene #2	1.302	1.342	1.300	1.293	1.288	1.276	1.249	1.278	1.250	1.286 E4	2.21
18) 2,3,4-trifluorotoluene #2	6.444	5.849	5.448	5.327	5.303	5.217	5.114	5.272	5.182	5.462 E3	7.81
19) ethylbenzene #2	1.213	1.190	1.161	1.151	1.138	1.130	1.104	1.121	1.093	1.145 E4	3.41
20) m,p-xylene #2	1.466	1.472	1.412	1.413	1.387	1.365	1.311	1.333	1.278	1.382 E4	4.84
21) o-xylene #2	1.235	1.153	1.179	1.183	1.165	1.155	1.131	1.146	1.106	1.161 E4	3.12
22) 1,3,5-trimethylbenzene #2	1.905	1.792	1.737	1.748	1.703	1.688	1.644	1.624	1.500	1.704 E4	6.66
23) 1,2,4-trimethylbenzene #2	1.431	1.322	1.292	1.289	1.254	1.250	1.222	1.209	1.112	1.265 E4	6.90
24) naphthalene #2	0.683	0.782	0.889	0.976	1.061	1.060	1.006	0.876	0.683	0.891 E4	16.68
25) c9-c10 arom as 1,2,4-tmb	1.432	1.323	1.289	1.288	1.253	1.249	1.221	1.209	1.112	1.264 E4	6.93
26) 2,5-dibromotoluene #2										0.000	-1.00

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

wx160602vph.M Thu Jun 02 13:53:05 2016

7.6.1

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Operator tonyf
Date Acquired 6/1/2016 8:10
Method Reference: wx 160602 VPH master.m
wx 160602 VPH.m

VPH INITIAL CALIBRATION

AREA RESPONSE

Name / FID	wx77024.D 1	wx77023.D 2	wx77022.D 5	wx77021.D 10	wx77020.D 50.00	wx77019.D 100.00	wx77018.D 250.00	wx77017.D 500.00	wx77016.D 1000			
pentane	22767	44675	118886	236774	1066222	2087396	5076127	9607441	16575302			
2-methylpentane	31166	57323	150938	303053	1403769	2764741	6805813	13595417	26128627			
iso-octane	27442	57225	143485	285251	1072962	1883245	3812261	6302927	10034529			
Total Area	81376	159223	413309	825078	3542953	6735383	15694200	29505784	52738458			
Total Concentration ppb	3.00	6	15.00	30.00	150.00	300.00	750.00	1500.00	3000.00	average CF	std dev	%rsd
Calibration Factor	27125	26537	27554	27503	23620	22451	20926	19671	17579	23663	3742	15.82
nonane	49618	93236	181001	360524	1572016	3087753	7408932	15089646	28442696			
Decane	46841	97419	182417	381152	1592389	3086985	7278551	14183677	20430393			
Butylcyclohexane	51203	101787	189639	390458	1673218	3278591	7932011	15882418	29073556			
Total Area	147662	292442	553057	1132134	4837623	9453329	22619494	45155740	77946645			
Total Concentration ppb	3.00	6	15.00	30.00	150.00	300.00	750.00	1500.00	3000.00	avg CF	std dev	%rsd
Calibration Factor	49221	48740	36870	37738	32251	31511	30159	30104	25982	35842	8247	23.01

Area	1000 ppb	50ppb
C5 - C8	23662823	1183141 ✓
C9 - C12	35841849	1792092

edited entire form 07/02/04 jfh
edited 2methylpentane,isooctane 1000ppb each in high std 4/14/04 ae
edited 050710 vphcal10

6/2/16
OK

6/2/2016 1:36 PM C:\msdchem\custrpt\VPHCAL9.CRT Page 1 of 1

Data File Name	wx77025.D
Operator	tonyf
Date Acquired	6/2/2016 13:06
Method File	wx77025.D
Sample Name	icv3782-50,gv16404
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	1038789	C5-C8 area				
2-methylpentane	1351506	3425808	22839	23663	-3.48	
iso-octane	1035513					
rt20/25	1472906					
Decane	1429444	c9-c12 area				
Butylcyclohexane	1581154	4483505	29890	35842	-16.61	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

6/2/16 g

7.6.1

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Data File Name	wx77035a.D
Operator	tonyf
Date Acquired	6/6/2016 7:56
Method File	wx77035a.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	936205	C5-C8 area				
2-methylpentane	1254220	3238369	21589	23663	-8.76	
iso-octane	1047944					
rt20/25	1459247					
Decane	1409557	c9-c12 area				
Butylcyclohexane	1557696	4426500	29510	35842	-17.67	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

aef

Data File Name	wx77045A.D
Operator	tonyf
Date Acquired	6/6/2016 14:10
Method File	wx77045A.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	915983	C5-C8 area				
2-methylpentane	1245310	3215982	21440	23663	-9.39	
iso-octane	1054689					
rt20/25	1424999					
Decane	1383767	c9-c12 area				
Butylcyclohexane	1532431	4341196	28941	35842	-19.25	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

6/6/16 ag

7.6.1

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Data File Name	wx77048.D
Operator	tonyf
Date Acquired	6/6/2016 16:01
Method File	wx77048.D
Sample Name	cc3784-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response	FID	Continuing CF	Initial CF	percent difference	out of criteria
pentane	846526	C5-C8 area				
2-methylpentane	1215164	3019264	20128	23663	-14.94	
iso-octane	957574					
rt20/25	1423750					
Decane	1367731	c9-c12 area				
Butylcyclohexane	1516706	4308186	28721	35842	-19.87	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314.aef

aef

ACCUTEST LABORATORIES

Instrument: GC 19 (WX)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 6/13/16 Analyst Signature: ceg

Standards Data

Lot #	Description	Conc
Vmaxph ne	qc 26361 gwx	3791

Standards Data

Lot #	Description	Conc
qu16417	cc/bsp 250ug/ml	7/9/16
qu16418	Sur ↓	↓

Column: mtx 502.2
Method: WXVPH1
GC Seq. File: wx160613.5
Method Files:
wx160613VPH cc3782-50

AS Seq. File: 1-1, 2-2, 3-4, 5-13

Date of ICAL: 6-2-16 ICAL Verified: Seq. Verification: 14-14 ag

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
wx77,104,105A	Check 50	N/A	qc 26361	Vmaxph	1	W	1ml qu16417	N/A	N/A	N/A	1st ck 77,104, 105A c9-c12 low ok
05 105B	mb				2		1ml qu16418				
06	bsp				3		1ml qu16417				
07	bsd				4						
08	m246338 -1	1			5		5ml			Lz	
09	-2	1			6						RR 1:5 confirm
10	-3	1			7						
11	-4	1			8						
12	-5	1			9						
13	-6	1			10						
14	-7	1			11						
15	-8	1			12						
16	-9	1			13						
~~17~~	6/13/16 check 50	~~N/A~~	ceg		~~14~~		1ml qu16417			N/A	Sequence 4/13/16 appears ok ag
17	mc46340-2	1	qc26361	VmAxph	14	W	5ml			Lz	
18	-3	1			15						
19	-4	1			16						
20	-5	1			17						
21	-6	1			18						
22	-7	1			19						
23	-1	1	web		20						
24	-8	1			21						
25	-9ms	1		6/13/16	~~22~~ 21						
26	↓ cbmsb	2			22						
27	Check 50	N/A			23		1ml qu16417			N/A	c9-c12 low
28	Check 50	N/A			1					N/A	ok
											6/13/16 ag

GC001-05 Date: 12/02/08 Dilution Solvent: _____ Lot Number: PH 216315 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, milliliter water.

SGS ACCUTEST MC46340

Data File Name	wx77105a.D
Operator	tonyf
Date Acquired	6/13/2016 13:22
Method File	wx77105a.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response	FID	Continuing CF	Initial CF	percent difference	out of criteria
pentane	1069589	C5-C8 area				
2-methylpentane	1307218	3444859	22966	23663	-2.95	
iso-octane	1068053					
rt20/25	1361297					
Decane	1298002	c9-c12 area				
Butylcyclohexane	1465065	4124364	27496	35842	-23.29	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

7.6.2

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SGS ACCUTEST MC46340

Data File Name	wx77127.D
Operator	tonyf
Date Acquired	6/14/2016 3:55
Method File	wx77127.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response	FID	Continuing CF	Initial CF	percent difference		out of criteria
pentane	983180	C5-C8 area					
2-methylpentane	1260627	3222917	21486	23663	-9.20		
iso-octane	979110						
rt20/25	1274060						
Decane	1207920	c9-c12 area					
Butylcyclohexane	1352258	3834237	25562	35842	-28.68	*	verify out low

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

✓ ae. f

Data File Name	wx77128.D
Operator	tonyf
Date Acquired	6/14/2016 7:14
Method File	wx77128.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	1037984	C5-C8 area				
2-methylpentane	1318149	3425692	22838	23663	-3.49	
iso-octane	1069559					
rt20/25	1366785					
Decane	1293510	c9-c12 area				
Butylcyclohexane	1455680	4115975	27440	35842	-23.44	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

vg

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: MC46340
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
OP47843-MB	DE14592.D	1	06/15/16	TA	06/14/16	OP47843	GDE811

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

MC46340-1A, MC46340-2A, MC46340-3A, MC46340-4A, MC46340-5A, MC46340-6A, MC46340-7A, MC46340-8A

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	59%	40-140%
321-60-8	2-Fluorobiphenyl	67%	40-140%
3386-33-2	1-Chlorooctadecane	67%	40-140%
580-13-2	2-Bromonaphthalene	67%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC46340
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
OP47843-BS	DE14589.D	1	06/15/16	TA	06/14/16	OP47843	GDE811
OP47843-BSD	DE14590.D	1	06/15/16	TA	06/14/16	OP47843	GDE811

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

MC46340-1A, MC46340-2A, MC46340-3A, MC46340-4A, MC46340-5A, MC46340-6A, MC46340-7A, MC46340-8A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	636	80	726	91	13	40-140/25
	C9-C18 Aliphatics	300	199	66	217	72	9	40-140/25
	C19-C36 Aliphatics	400	327	82	384	96	16	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	65%	72%	40-140%
321-60-8	2-Fluorobiphenyl	75%	81%	40-140%
3386-33-2	1-Chlorooctadecane	56%	64%	40-140%
580-13-2	2-Bromonaphthalene	65%	69%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47843-BS	2-Methylnaphthalene	23.5	ND	0.0%	5.0
OP47843-BS	Naphthalene	22.0	ND	0.0%	5.0
OP47843-BSD	2-Methylnaphthalene	26.0	ND	0.0%	5.0
OP47843-BSD	Naphthalene	23.9	ND	0.0%	5.0

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC46340
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]
MC46340-1A	DE14600.D	57	66	52	66
MC46340-2A	DE14601.D	58	66	50	66
MC46340-3A	DE14602.D	51	69	45	68
MC46340-4A	DE14603.D	64	68	74	66
MC46340-5A	DE14604.D	63	65	63	68
MC46340-6A	DE14605.D	68	74	61	74
MC46340-7A	DE14606.D	58	67	74	65
MC46340-8A	DE14607.D	71	75	72	75
OP47843-BS	DE14589.D	65	75	56	65
OP47843-BSD	DE14590.D	72	81	64	69
OP47843-MB	DE14592.D	59	67	67	67

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: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE811-CC735	**Injection Date:**	06/15/16
Lab File ID:	DE14587.D	**Injection Time:**	14:09
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.94	6.69	11.22	7.42

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47843-BS	DE14589.D	06/15/16	15:33	9.94	6.70	11.22	7.42
OP47843-BSD	DE14590.D	06/15/16	16:01	9.94	6.69	11.22	7.42
ZZZZZZ	DE14591.D	06/15/16	16:28	9.94	6.69	11.22	7.42
OP47843-MB	DE14592.D	06/15/16	16:56	9.94	6.69	11.22	7.42
ZZZZZZ	DE14593.D	06/15/16	17:24	9.94	6.69	11.22	7.42
ZZZZZZ	DE14594.D	06/15/16	17:52	9.94	6.69	11.22	7.41
ZZZZZZ	DE14595.D	06/15/16	18:19	9.94	6.69	11.22	7.42
ZZZZZZ	DE14596.D	06/15/16	18:47	9.94	6.69	11.22	7.42
ZZZZZZ	DE14597.D	06/15/16	19:15	9.94	6.69	11.22	7.41

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: MC46340
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE811-CC735	**Injection Date:**	06/15/16
Lab File ID:	DE14598.D	**Injection Time:**	19:43
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.94	6.68	11.22	7.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
ZZZZZZ	DE14599.D	06/15/16	20:11	9.94	6.69	11.22	7.42
MC46340-1A	DE14600.D	06/15/16	20:38	9.94	6.69	11.22	7.42
MC46340-2A	DE14601.D	06/15/16	21:06	9.94	6.69	11.22	7.42
MC46340-3A	DE14602.D	06/15/16	21:34	9.94	6.69	11.22	7.42
MC46340-4A	DE14603.D	06/15/16	22:02	9.94	6.69	11.22	7.42
MC46340-5A	DE14604.D	06/15/16	22:30	9.94	6.69	11.22	7.42
MC46340-6A	DE14605.D	06/15/16	22:58	9.94	6.68	11.22	7.41
MC46340-7A	DE14606.D	06/15/16	23:26	9.94	6.69	11.22	7.41
MC46340-8A	DE14607.D	06/15/16	23:54	9.93	6.69	11.22	7.41
GDE811-ECC735	DE14608.D	06/16/16	00:23	9.94	6.68	11.22	7.41

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: MC46340
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: MC46340
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: MC46340
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: MC46340 **Sample:** GDE735-ICV735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE13198.D
Project: BMSMC, Building 5 Area, Puerto Rico

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

8.5.2

8

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GDE811-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14587.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 15 Jun 2016   2:09 pm
Operator  : thomasa
Sample    : cc735-50,gde811
Misc      : op47681,gde811,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:37:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	94.962 E3	7.9	89	0.00
3		2-methylnaphthalene	102.482	95.153 E3	7.2	90	0.00
4	s	2-fluorobiphenyl	92.230	85.624 E3	7.2	90	0.00
5		acenaphthylene	100.602	94.289 E3	6.3	91	0.00
6	s	2-bromonaphthalene	62.755	56.857 E3	9.4	87	0.00
7		acenaphthene	103.376	101.098 E3	2.2	94	0.00
8		fluorene	101.567	96.724 E3	4.8	92	0.00
9		phenanthrene	101.763	96.033 E3	5.6	92	0.00
10		anthracene	97.008	95.629 E3	1.4	96	0.00
11	s	o-terphenyl	102.427	98.187 E3	4.1	93	0.00
12		fluoranthene	99.941	97.487 E3	2.5	96	0.00
13		pyrene	101.462	99.769 E3	1.7	97	0.00
14		benzo(a)anthracene	96.675	95.532 E3	1.2	98	0.00
15		chrysene	97.341	97.363 E3	-0.0	98	0.00
16		benzo(B)fluoranthene	99.002	100.138 E3	-1.1	101	0.00
17		benzo(k)fluoranthene	94.503	98.483 E3	-4.2	100	0.00
18		benzo(a)pyrene	92.435	94.709 E3	-2.5	100	0.00
19		indeno(1,2,3-cd)pyrene	94.658	100.033 E3	-5.7	103	0.00
20		dibenzo(ah)anthracene	91.399	95.145 E3	-4.1	102	0.00
21		benzo(ghi)perylene	92.123	95.924 E3	-4.1	102	0.00
Signal #2							
25	h	c-9	73.872	75.198 E3	-1.8	0#	0.00
26	h	c-10	73.872	76.996 E3	-4.2	0#	0.00
27		naphthalene #2	79.872	80.687 E3	-1.0	106	0.00
28		c-12	73.872	74.543 E3	-0.9	0#	0.00
29		2-methylnaphthalene #2	80.566	79.910 E3	0.8	105	0.00
30		c-14	73.872	73.399 E3	0.6	0#	0.00
31		c-16	73.872	72.557 E3	1.8	0#	0.00

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GDE811-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14587.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	72.643	E3	1.7	0#	0.00
33		c-19	66.806	71.430	E3	-6.9	0#	0.00
34		c-20	66.806	70.461	E3	-5.5	0#	0.00
35	s	1-chlorooctadecane	56.575	56.875	E3	-0.5	106	0.00
36		c-22	66.806	70.418	E3	-5.4	0#	0.00
37		c-24	66.806	66.177	E3	0.9	0#	0.00
38		c-26	66.806	70.522	E3	-5.6	0#	0.00
39		c-28	66.806	68.399	E3	-2.4	0#	0.00
40	h	c-30	66.806	69.544	E3	-4.1	0#	0.00
41	h	c-36	66.806	63.826	E3	4.5	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#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

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

EPH160615W.M Wed Jun 15 15:23:24 2016

8.5.3

8

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GDE811-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14598.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 15 Jun 2016   7:43 pm
Operator  : thomasa
Sample    : cc735-50,gde811
Misc      : op47843,gde811,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:33:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	90.342 E3	12.4	85	0.00
3		2-methylnaphthalene	102.482	90.627 E3	11.6	86	0.00
4	s	2-fluorobiphenyl	92.230	82.043 E3	11.0	86	0.00
5		acenaphthylene	100.602	90.076 E3	10.5	87	0.00
6	s	2-bromonaphthalene	62.755	53.239 E3	15.2	82	0.00
7		acenaphthene	103.376	94.224 E3	8.9	88	0.00
8		fluorene	101.567	92.371 E3	9.1	88	0.00
9		phenanthrene	101.763	91.190 E3	10.4	87	0.00
10		anthracene	97.008	92.145 E3	5.0	93	0.00
11	s	o-terphenyl	102.427	93.848 E3	8.4	89	0.00
12		fluoranthene	99.941	92.976 E3	7.0	92	0.00
13		pyrene	101.462	95.091 E3	6.3	93	0.00
14		benzo(a)anthracene	96.675	91.300 E3	5.6	93	0.00
15		chrysene	97.341	92.342 E3	5.1	93	0.00
16		benzo(B)fluoranthene	99.002	92.390 E3	6.7	93	0.00
17		benzo(k)fluoranthene	94.503	95.927 E3	-1.5	97	0.00
18		benzo(a)pyrene	92.435	89.954 E3	2.7	95	0.00
19		indeno(1,2,3-cd)pyrene	94.658	94.190 E3	0.5	97	0.00
20		dibenzo(ah)anthracene	91.399	91.104 E3	0.3	97	0.00
21		benzo(ghi)perylene	92.123	91.153 E3	1.1	97	0.00
Signal #2							
25	h	c-9	73.872	82.378 E3	-11.5	0#	0.00
26	h	c-10	73.872	83.274 E3	-12.7	0#	0.00
27		naphthalene #2	79.872	88.273 E3	-10.5	116	0.00
28		c-12	73.872	82.167 E3	-11.2	0#	0.00
29		2-methylnaphthalene #2	80.566	87.764 E3	-8.9	115	0.00
30		c-14	73.872	81.822 E3	-10.8	0#	0.00
31		c-16	73.872	81.384 E3	-10.2	0#	0.00

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GDE811-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14598.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	81.789	E3	-10.7	0#	0.00
33		c-19	66.806	81.388	E3	-21.8	0#	0.00
34		c-20	66.806	79.809	E3	-19.5	0#	0.00
35	s	1-chlorooctadecane	56.575	64.474	E3	-14.0	120	0.00
36		c-22	66.806	79.566	E3	-19.1	0#	0.00
37		c-24	66.806	74.540	E3	-11.6	0#	0.00
38		c-26	66.806	79.421	E3	-18.9	0#	0.00
39		c-28	66.806	76.816	E3	-15.0	0#	0.00
40	h	c-30	66.806	77.303	E3	-15.7	0#	0.00
41	h	c-36	66.806	70.875	E3	-6.1	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#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

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

EPH160615W.M Thu Jun 16 09:12:59 2016

8.5.4

8

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GDE811-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14608.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 16 Jun 2016  12:23 am
Operator  : thomasa
Sample    : ecc735-50,gde811
Misc      : op47843,gde811,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:32:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	92.911 E3	9.9	87	0.00
3		2-methylnaphthalene	102.482	93.479 E3	8.8	88	0.00
4	s	2-fluorobiphenyl	92.230	84.311 E3	8.6	89	0.00
5		acenaphthylene	100.602	92.862 E3	7.7	89	0.00
6	s	2-bromonaphthalene	62.755	55.892 E3	10.9	86	0.00
7		acenaphthene	103.376	99.373 E3	3.9	93	0.00
8		fluorene	101.567	95.349 E3	6.1	91	0.00
9		phenanthrene	101.763	94.546 E3	7.1	91	0.00
10		anthracene	97.008	94.704 E3	2.4	95	0.00
11	s	o-terphenyl	102.427	97.021 E3	5.3	92	0.00
12		fluoranthene	99.941	95.938 E3	4.0	94	0.00
13		pyrene	101.462	98.293 E3	3.1	96	0.00
14		benzo(a)anthracene	96.675	93.505 E3	3.3	96	0.00
15		chrysene	97.341	95.914 E3	1.5	97	0.00
16		benzo(B)fluoranthene	99.002	98.987 E3	0.0	99	0.00
17		benzo(k)fluoranthene	94.503	95.199 E3	-0.7	97	0.00
18		benzo(a)pyrene	92.435	92.720 E3	-0.3	98	0.00
19		indeno(1,2,3-cd)pyrene	94.658	97.014 E3	-2.5	100	0.00
20		dibenzo(ah)anthracene	91.399	93.115 E3	-1.9	99	0.00
21		benzo(ghi)perylene	92.123	93.775 E3	-1.8	100	0.00
Signal #2							
25	h	c-9	73.872	84.674 E3	-14.6	0#	0.00
26	h	c-10	73.872	85.630 E3	-15.9	0#	0.00
27		naphthalene #2	79.872	90.230 E3	-13.0	119	0.00
28		c-12	73.872	83.815 E3	-13.5	0#	0.00
29		2-methylnaphthalene #2	80.566	89.661 E3	-11.3	118	0.00
30		c-14	73.872	82.705 E3	-12.0	0#	0.00
31		c-16	73.872	81.164 E3	-9.9	0#	0.00

Continuing Calibration Summary

Job Number: MC46340 **Sample:** GDE811-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14608.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	81.511	E3	-10.3	0#	0.00
33		c-19	66.806	81.003	E3	-21.3	0#	0.00
34		c-20	66.806	79.388	E3	-18.8	0#	0.00
35	s	1-chlorooctadecane	56.575	64.120	E3	-13.3	120	0.00
36		c-22	66.806	78.962	E3	-18.2	0#	0.00
37		c-24	66.806	73.996	E3	-10.8	0#	0.00
38		c-26	66.806	78.762	E3	-17.9	0#	0.00
39		c-28	66.806	76.359	E3	-14.3	0#	0.00
40	h	c-30	66.806	77.210	E3	-15.6	0#	0.00
41	h	c-36	66.806	70.590	E3	-5.7	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#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

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

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8.5.5

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14600.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 8:38 pm
Operator : thomasa
Sample : mc46340-1a,op47843 (Sig #1); mc46340-1a,op47853 (Sig #2)
Misc : op47843,gde811,980,,,2,,w
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:11:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.688	1223236	13.263 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 66.31%#	
6) s 2-bromonaphthalene	7.417	830503	13.234 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 66.17%#	
11) s o-terphenyl	9.937	1164677	11.371 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 56.85%#	
35) s 1-chlorooctadecane	11.217	588823	10.408 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 52.04%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2090973	21.292 µg/mlm
25) h c-9	2.647	1474209	19.956 µg/mlm
41) h c-36	16.983	2001835	29.965 µg/mlm

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

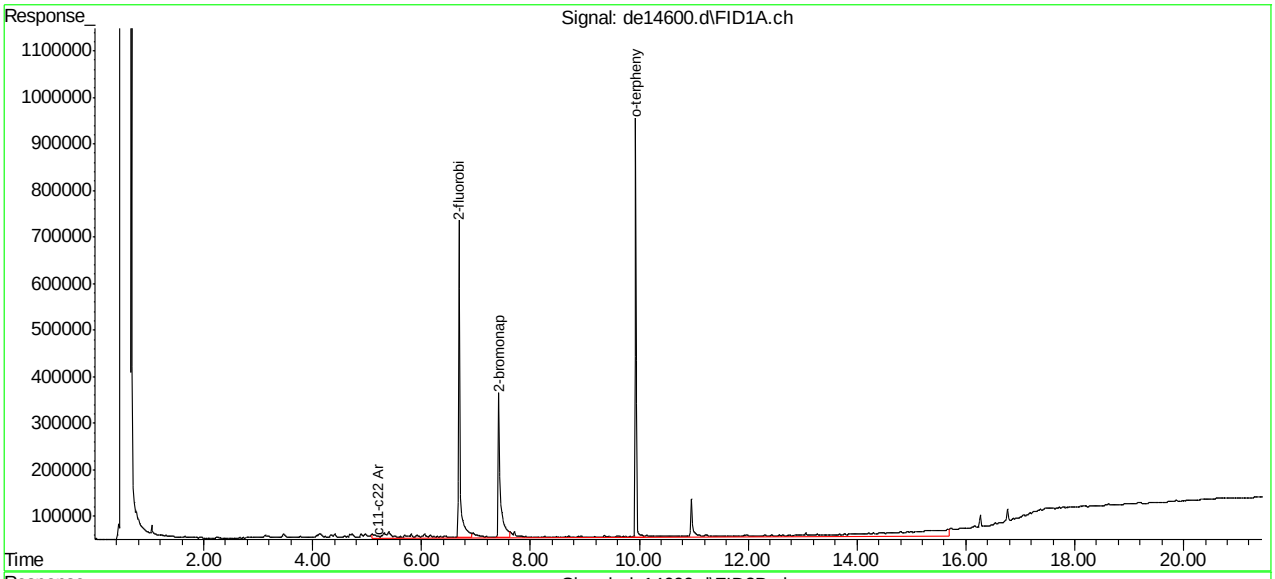
SGS ACCUTEST MC46340

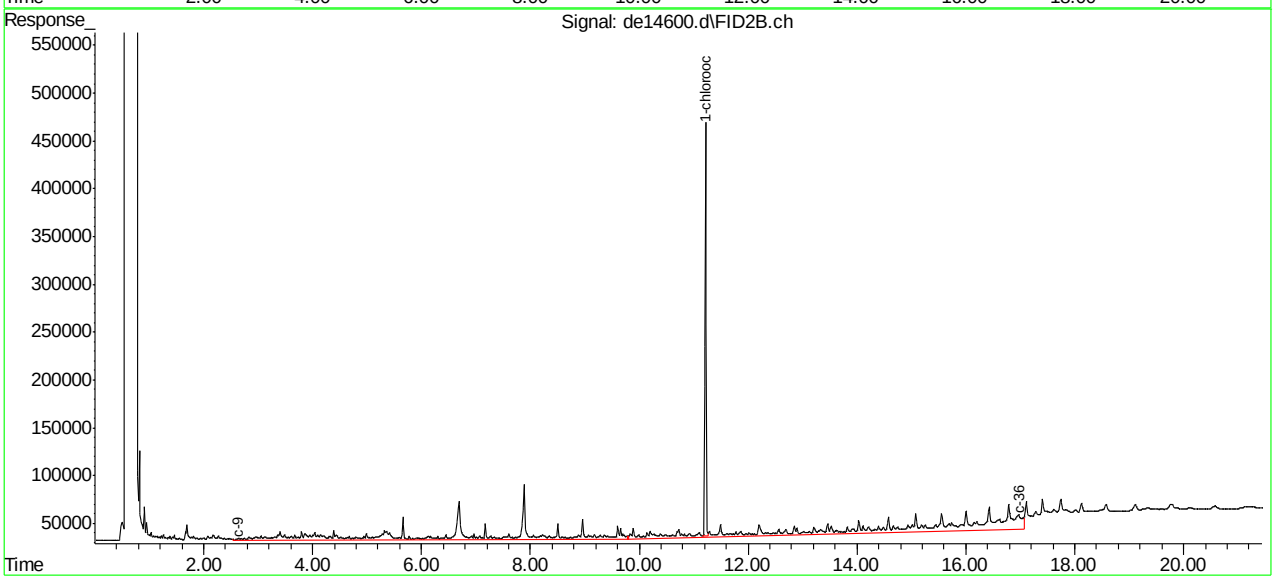
Quantitation Report (QT Reviewed)

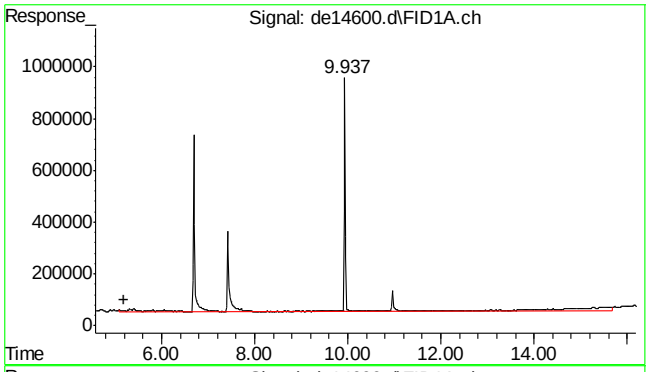
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14600.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 8:38 pm
Operator : thomasa
Sample : mc46340-1a,op47843 (Sig #1); mc46340-1a,op47853 (Sig #2)
Misc : op47843,gde811,980,,,2,,w
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:11:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

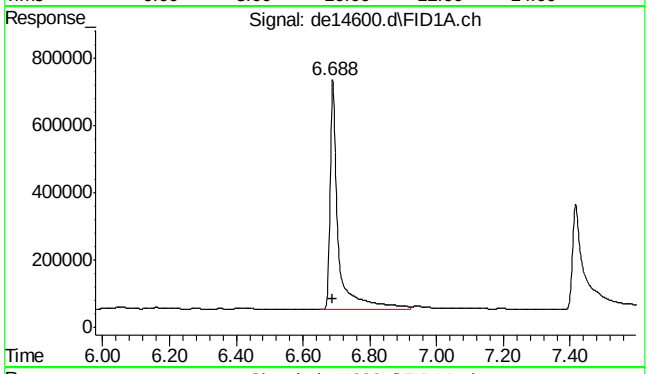






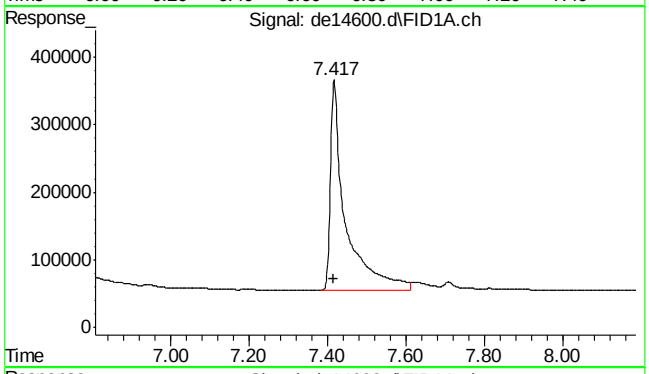
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2090973
Conc: 21.29 µg/ml m



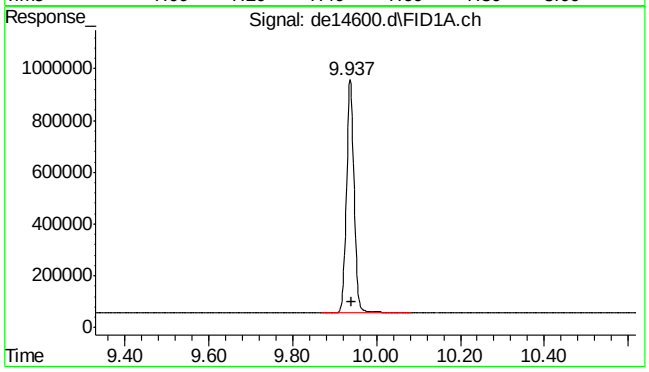
#4 2-fluorobiphenyl

R.T.: 6.688 min
Delta R.T.: 0.000 min
Response: 1223236
Conc: 13.26 µg/ml



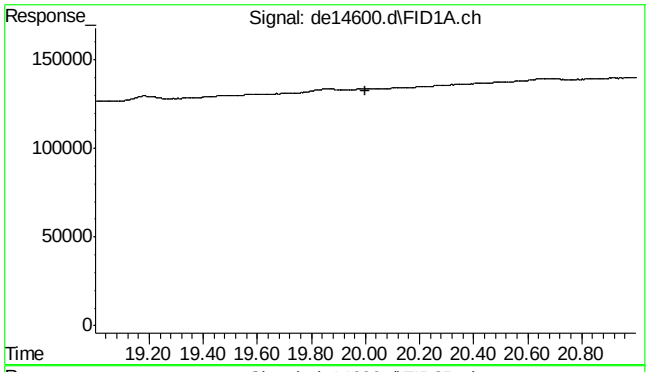
#6 2-bromonaphthalene

R.T.: 7.417 min
Delta R.T.: 0.002 min
Response: 830503
Conc: 13.23 µg/ml



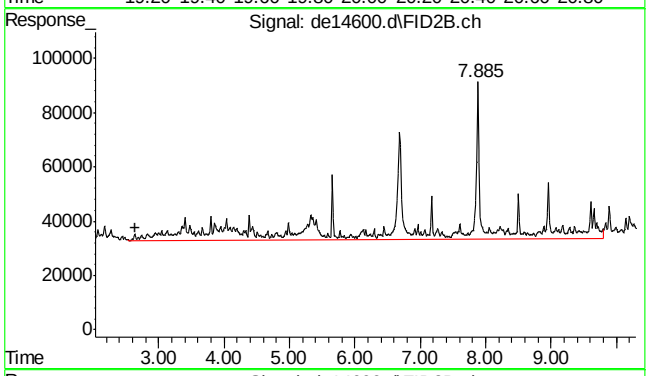
#11 o-terphenyl

R.T.: 9.937 min
Delta R.T.: -0.005 min
Response: 1164677
Conc: 11.37 µg/ml



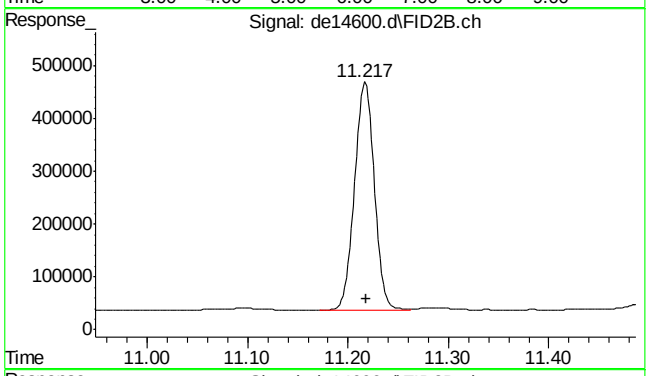
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



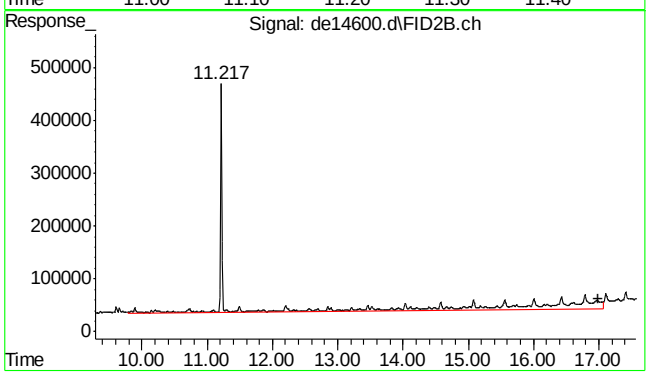
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1474209
Conc: 19.96 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.217 min
Delta R.T.: -0.002 min
Response: 588823
Conc: 10.41 µg/ml



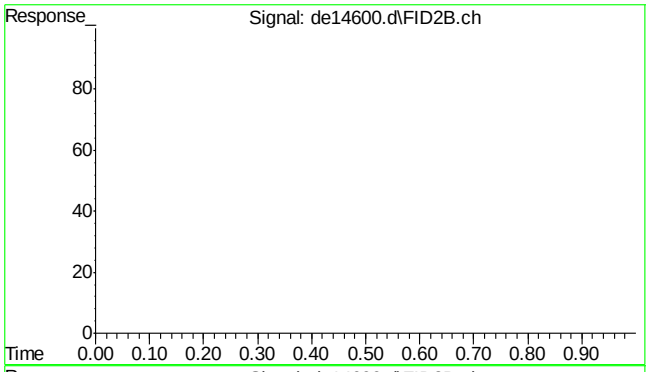
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 2001835
Conc: 29.96 µg/ml m

9.1.1

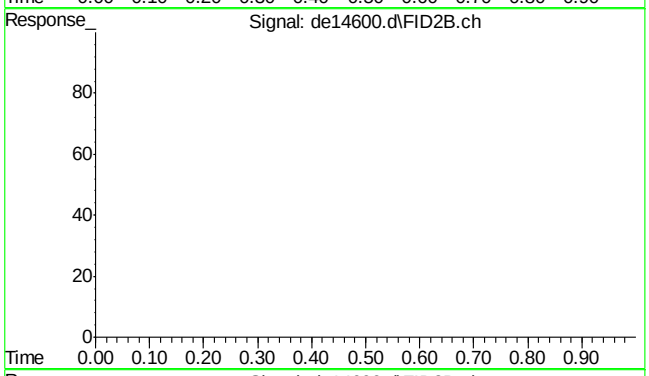
9

SGS ACCUTEST MC46340



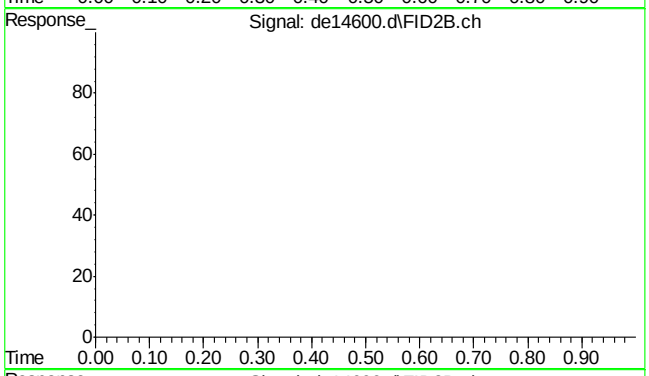
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



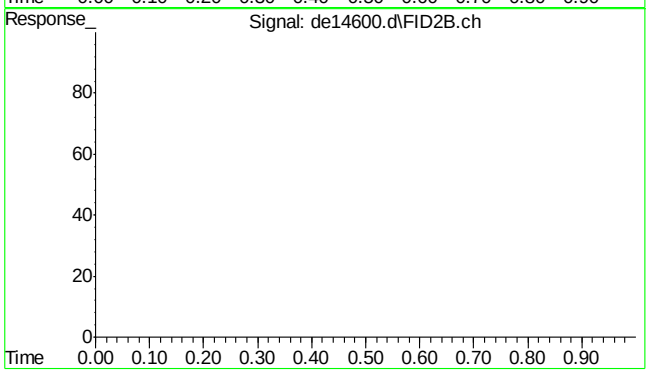
#43 bht

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\DE160615EPH\
Data File : de14601.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 9:06 pm
Operator : thomasa
Sample : mc46340-2a,op47843 (Sig #1); mc46340-2a,op47853 (Sig #2)
Misc : op47843,gde811,920,,,2,,w
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:14:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.688	1222466	13.255 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 66.28%#		
6) s 2-bromonaphthalene	7.415	827410	13.185 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 65.92%#		
11) s o-terphenyl	9.937	1197218	11.689 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 58.45%#		
35) s 1-chlorooctadecane	11.215	561187	9.919 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 49.59%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2211673	22.521 µg/mlm
25) h c-9	2.647	1257080	17.017 µg/mlm
41) h c-36	16.983	1863155	27.889 µg/mlm

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

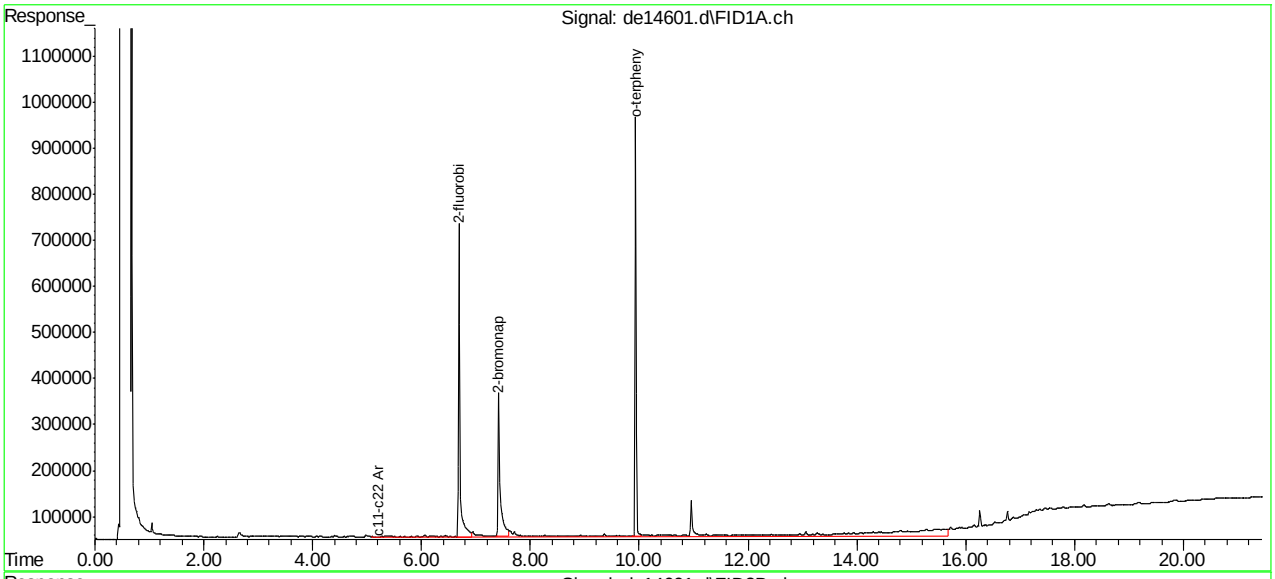
SGS ACCUTEST MC46340

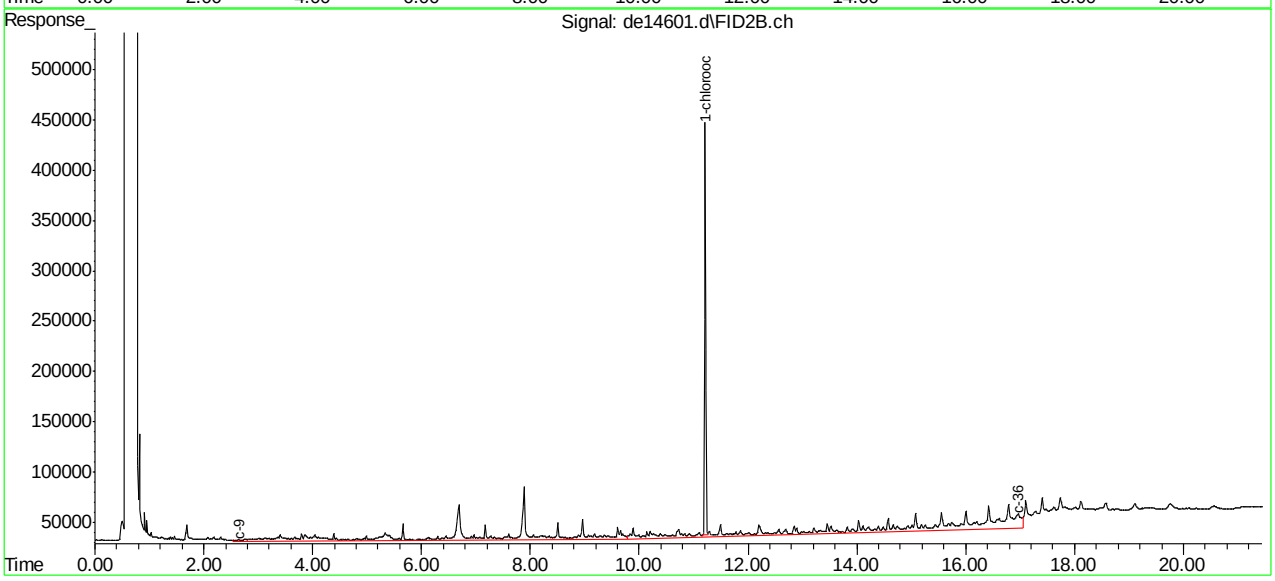
Quantitation Report (QT Reviewed)

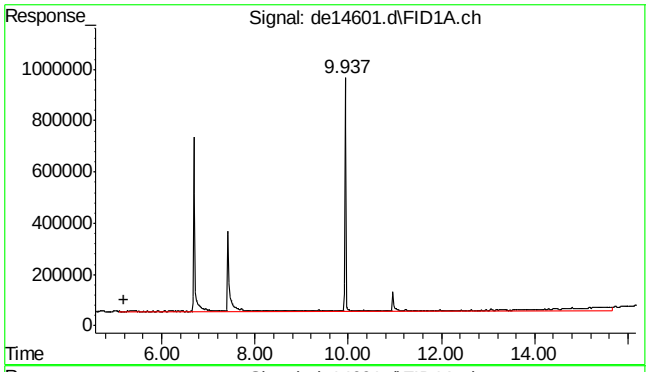
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14601.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 9:06 pm
Operator : thomasa
Sample : mc46340-2a,op47843 (Sig #1); mc46340-2a,op47853 (Sig #2)
Misc : op47843,gde811,920,,,2,,w
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:14:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

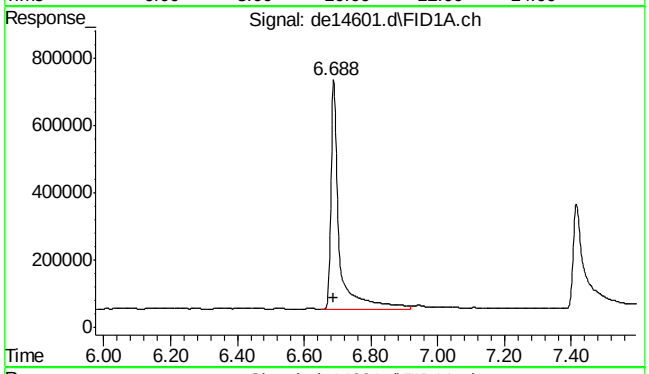






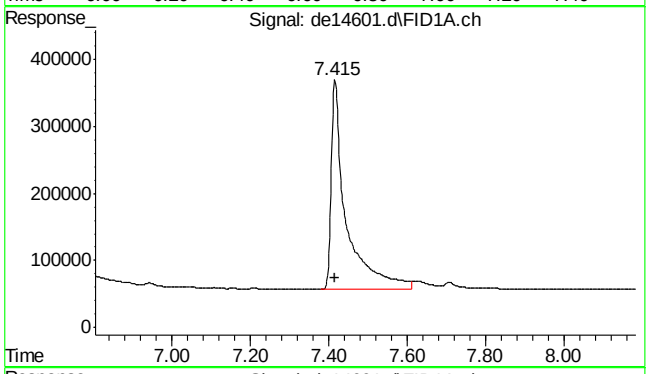
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2211673
Conc: 22.52 µg/ml m



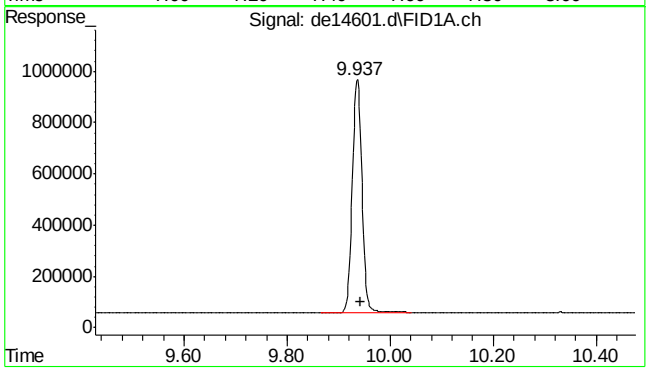
#4 2-fluorobiphenyl

R.T.: 6.688 min
Delta R.T.: 0.000 min
Response: 1222466
Conc: 13.25 µg/ml



#6 2-bromonaphthalene

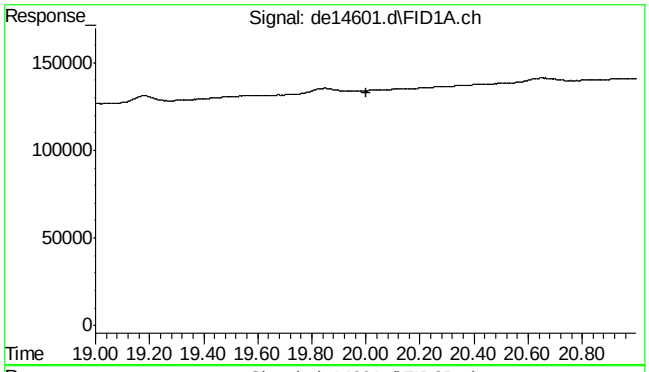
R.T.: 7.415 min
Delta R.T.: 0.000 min
Response: 827410
Conc: 13.18 µg/ml



#11 o-terphenyl

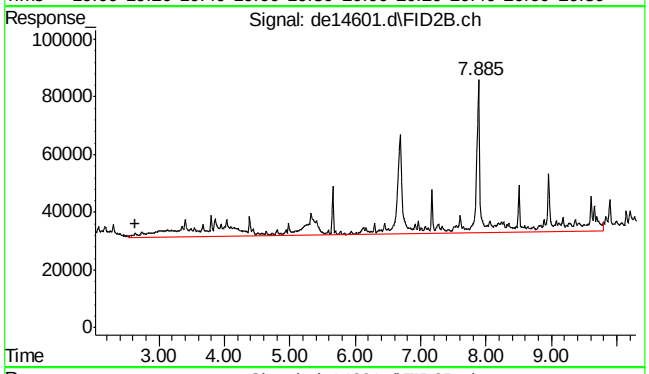
R.T.: 9.937 min
Delta R.T.: -0.005 min
Response: 1197218
Conc: 11.69 µg/ml

SGS ACCUTEST MC46340



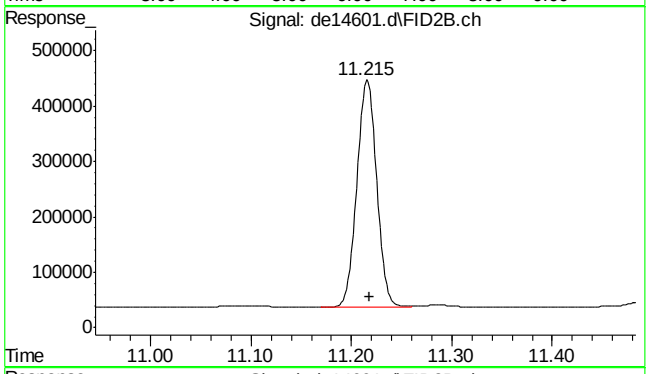
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



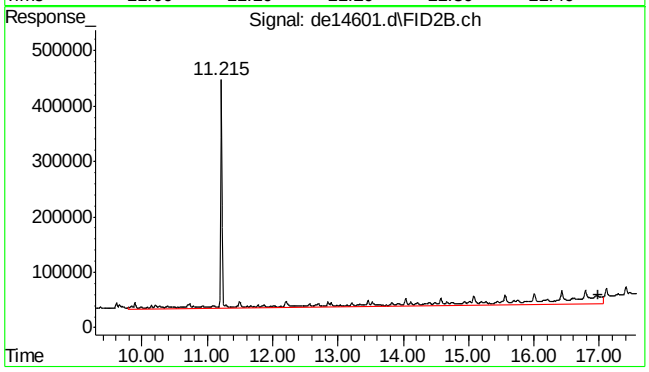
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1257080
Conc: 17.02 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: -0.003 min
Response: 561187
Conc: 9.92 µg/ml



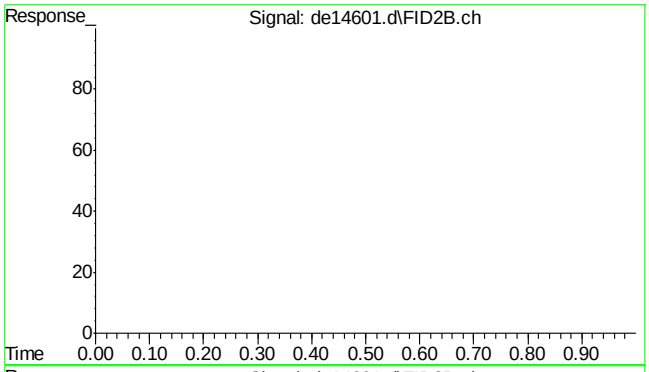
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1863155
Conc: 27.89 µg/ml m

9.1.2

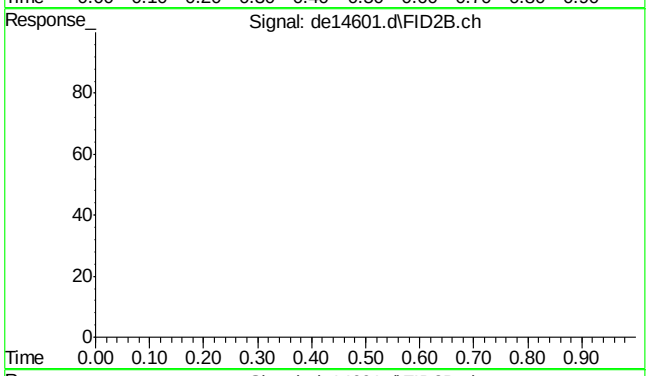
9

SGS ACCUTEST MC46340



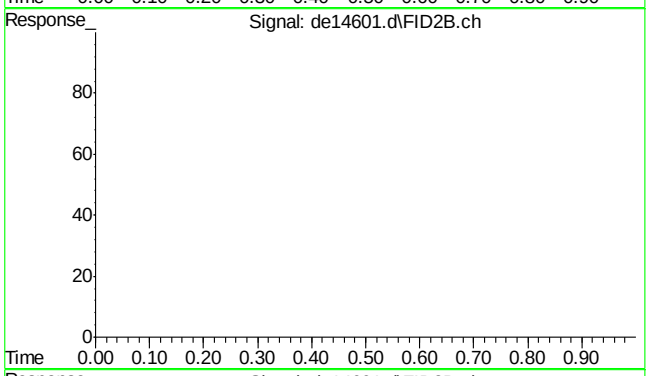
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



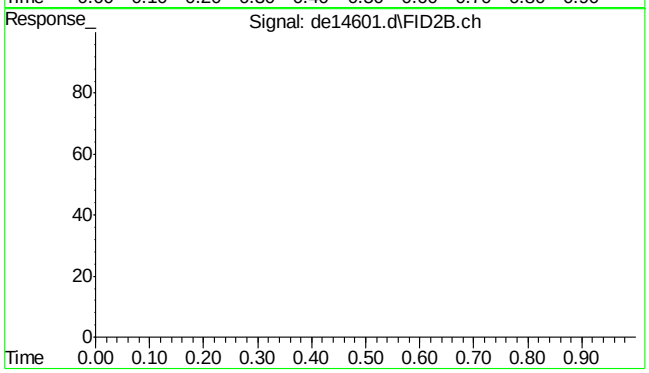
#43 bht

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\DE160615EPH\
Data File : de14602.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 9:34 pm
Operator : thomasa
Sample : mc46340-3a,op47843 (Sig #1); mc46340-3a,op47853 (Sig #2)
Misc : op47843,gde811,900,,,2,,w
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:36:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.687	1268374	13.752 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 68.76%#		
6) s 2-bromonaphthalene	7.415	850738	13.557 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 67.79%#		
11) s o-terphenyl	9.935	1046365	10.216 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 51.08%#		
35) s 1-chlorooctadecane	11.215	514242	9.090 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 45.45%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3027182	30.825 µg/mlm
25) h c-9	2.647	1315289	17.805 µg/mlm
41) h c-36	16.983	1688689	25.277 µg/mlm

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

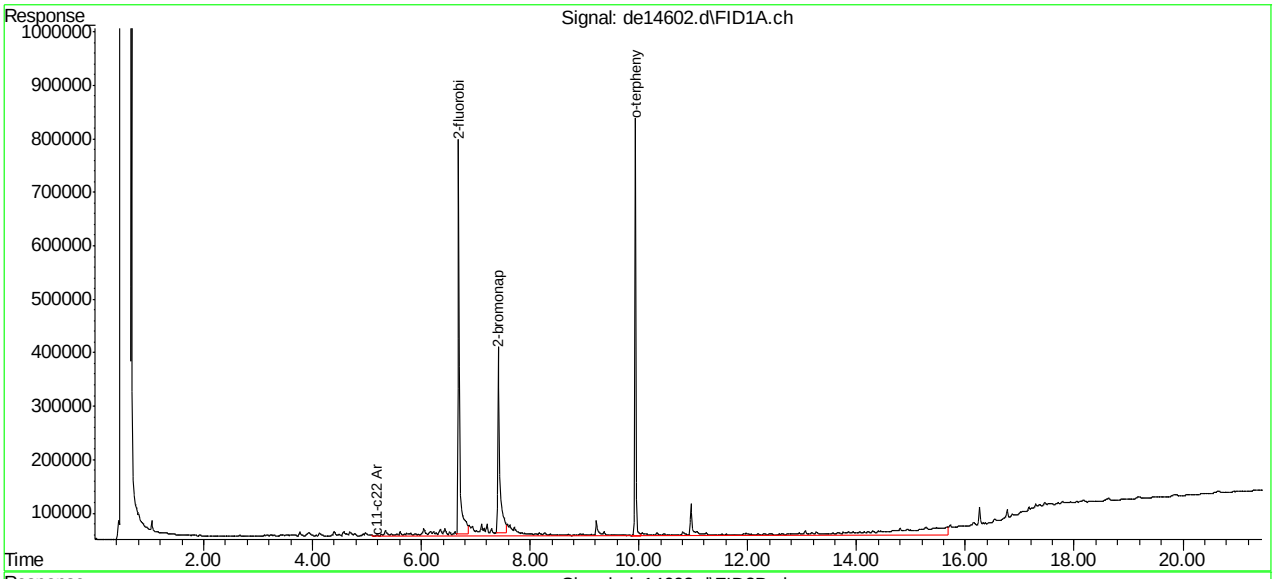
SGS ACCUTEST MC46340

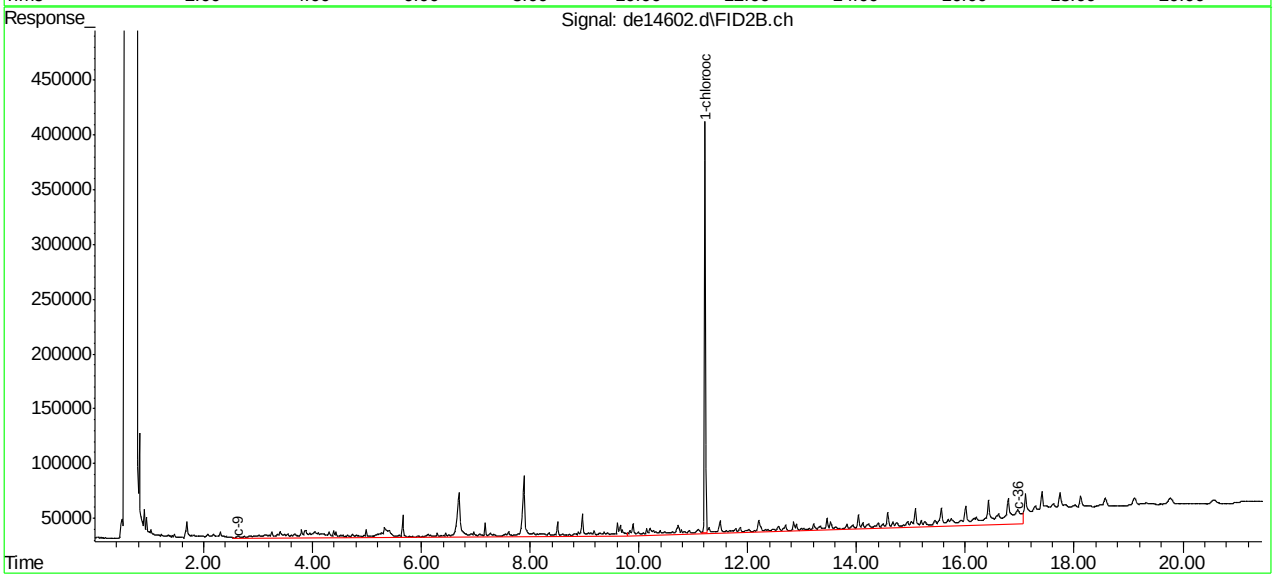
Quantitation Report (QT Reviewed)

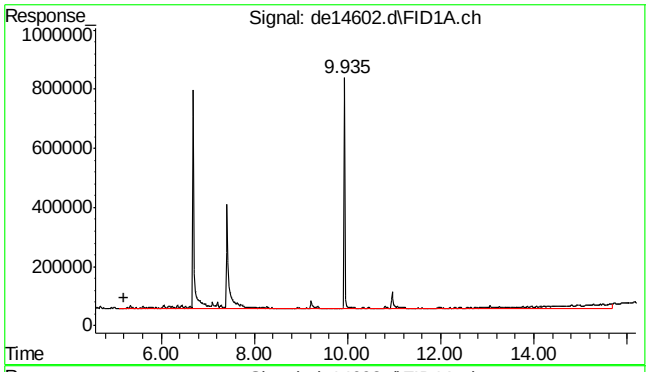
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14602.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 9:34 pm
Operator : thomasa
Sample : mc46340-3a,op47843 (Sig #1); mc46340-3a,op47853 (Sig #2)
Misc : op47843,gde811,900,,,2,,w
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:36:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

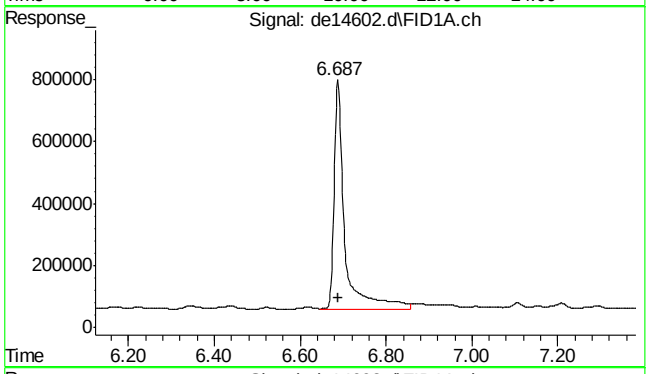






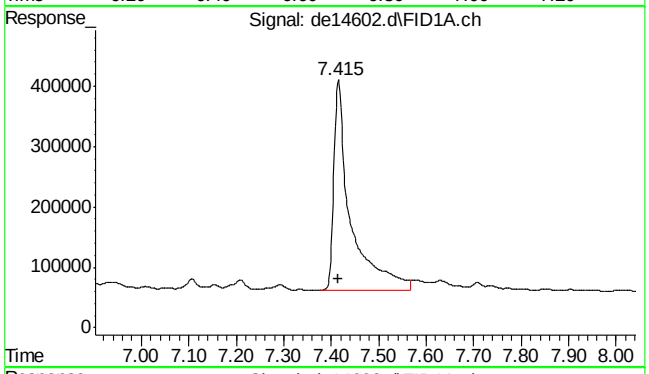
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3027182
Conc: 30.83 µg/ml m



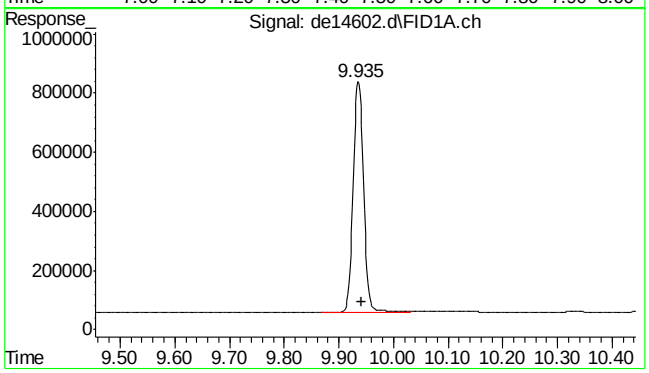
#4 2-fluorobiphenyl

R.T.: 6.687 min
Delta R.T.: -0.002 min
Response: 1268374
Conc: 13.75 µg/ml



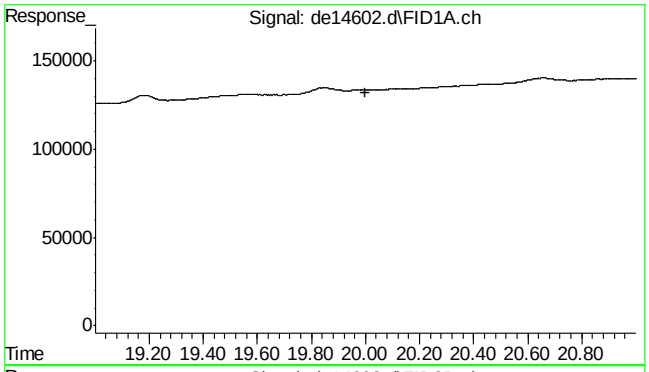
#6 2-bromonaphthalene

R.T.: 7.415 min
Delta R.T.: 0.000 min
Response: 850738
Conc: 13.56 µg/ml



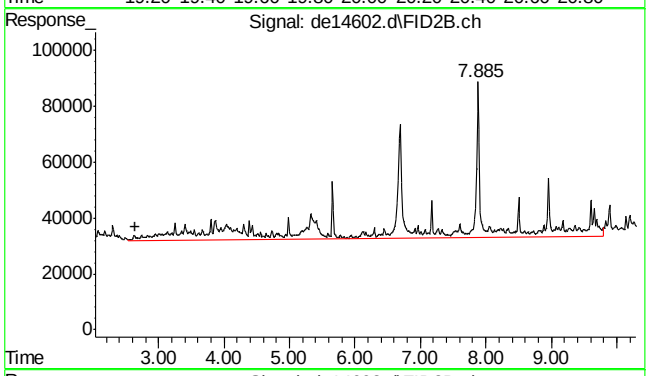
#11 o-terphenyl

R.T.: 9.935 min
Delta R.T.: -0.007 min
Response: 1046365
Conc: 10.22 µg/ml



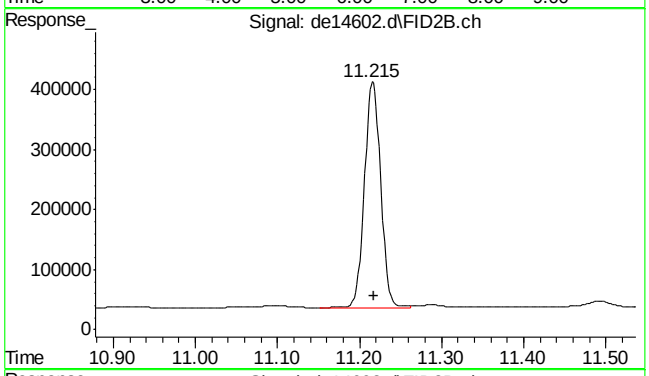
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



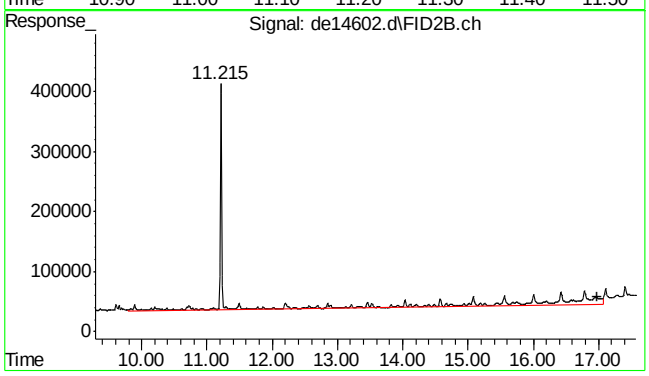
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1315289
Conc: 17.80 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: -0.003 min
Response: 514242
Conc: 9.09 µg/ml



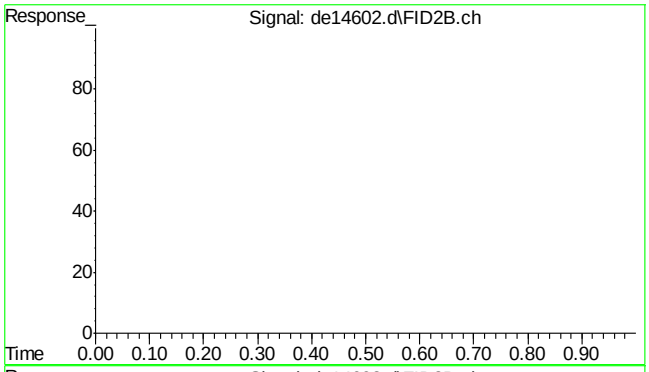
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1688689
Conc: 25.28 µg/ml m

9.1.3

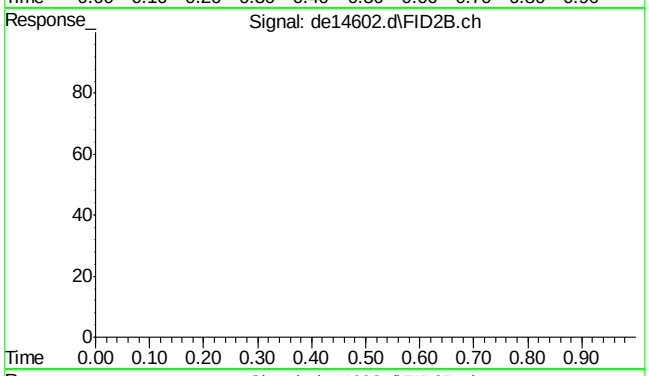
9

SGS ACCUTEST MC46340



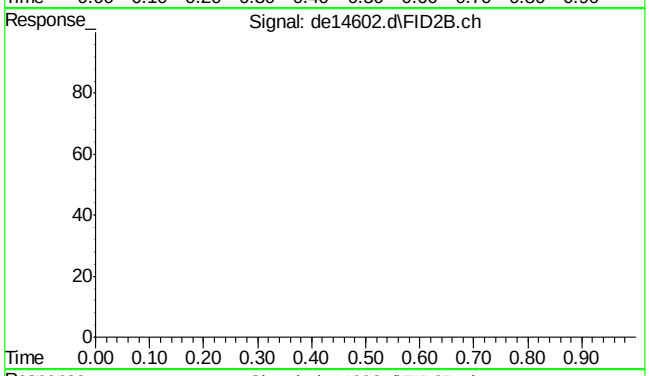
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



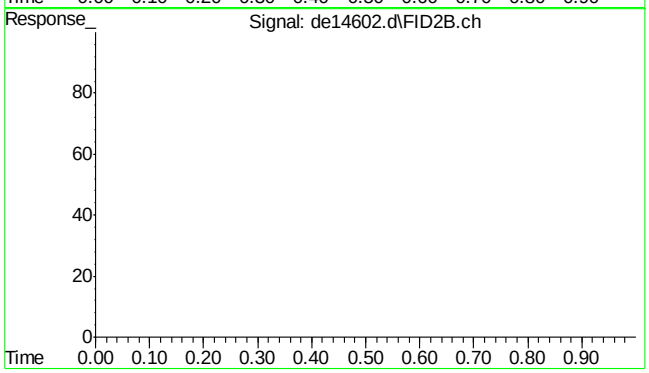
#43 bht

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\DE160615EPH\
Data File : de14603.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 10:02 pm
Operator : thomasa
Sample : mc46340-4a,op47843 (Sig #1); mc46340-4a,op47853 (Sig #2)
Misc : op47843,gde811,980,,,2,,w
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:38:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.688	1245888	13.508 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 67.54%#		
6) s 2-bromonaphthalene	7.415	832869	13.272 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 66.36%#		
11) s o-terphenyl	9.937	1316253	12.851 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 64.26%#		
35) s 1-chlorooctadecane	11.215	833706	14.736 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 73.68%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3709090	37.769 µg/mlm
25) h c-9	2.647	2237311	30.286 µg/mlm
41) h c-36	16.983	3459958	51.791 µg/mlm

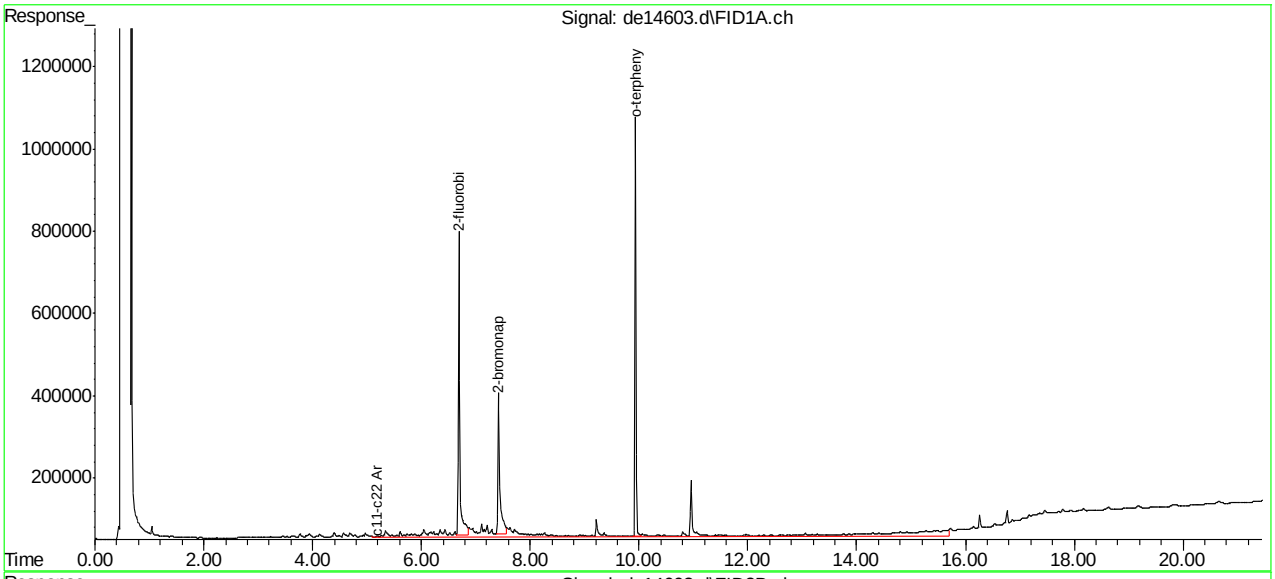
(f)=RT Delta > 1/2 Window (m)=manual int.

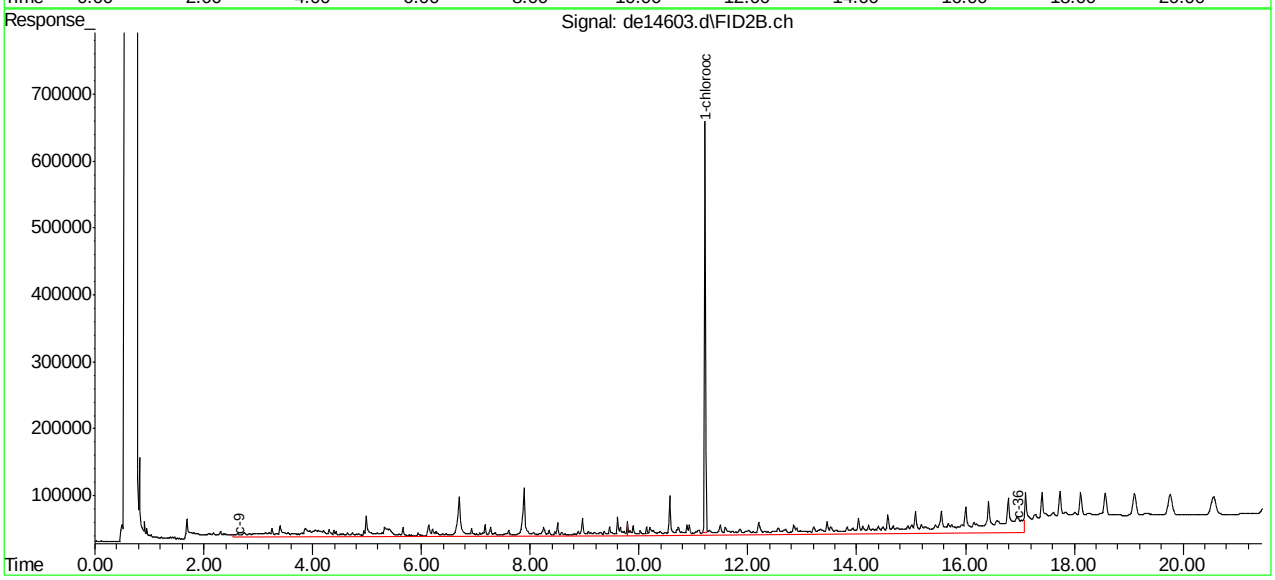
Quantitation Report (QT Reviewed)

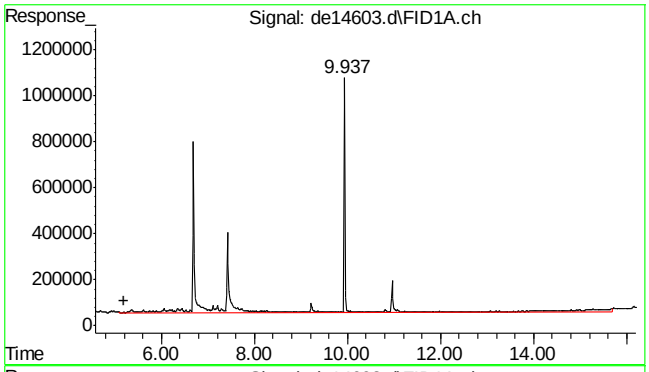
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14603.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 10:02 pm
Operator : thomasa
Sample : mc46340-4a,op47843 (Sig #1); mc46340-4a,op47853 (Sig #2)
Misc : op47843,gde811,980,,,2,,w
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:38:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

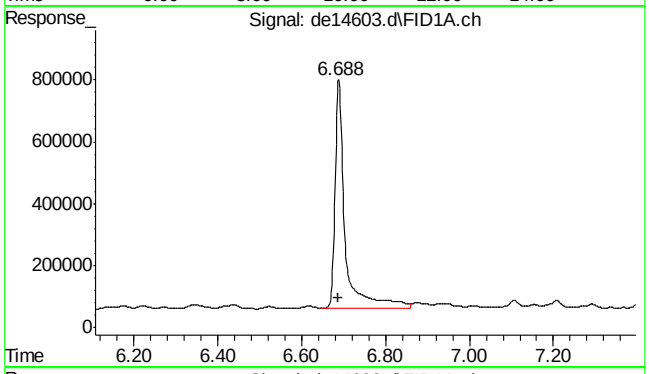






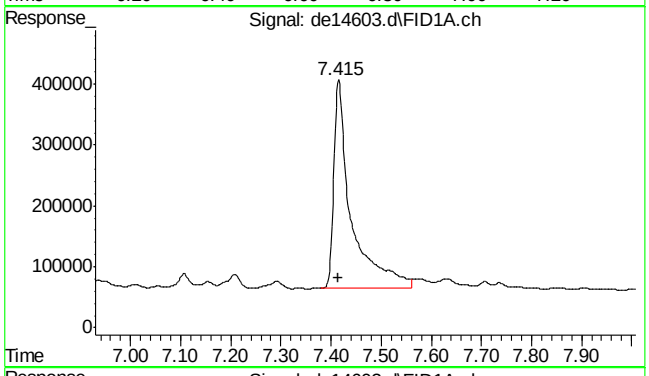
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3709090
Conc: 37.77 µg/ml m



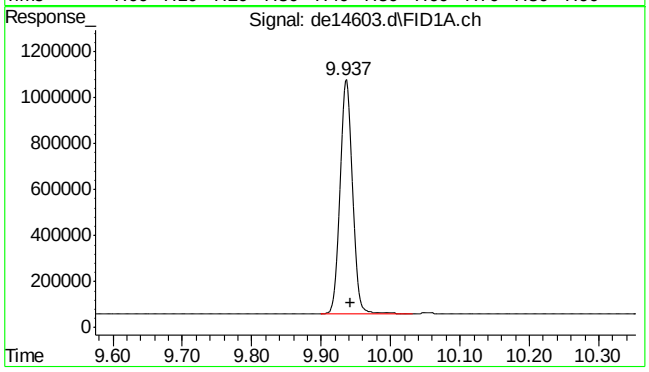
#4 2-fluorobiphenyl

R.T.: 6.688 min
Delta R.T.: 0.000 min
Response: 1245888
Conc: 13.51 µg/ml



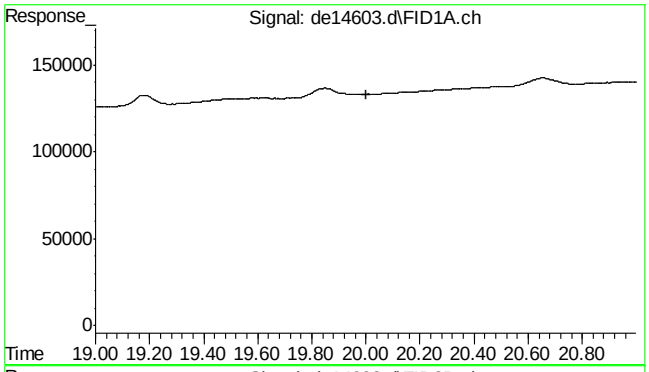
#6 2-bromonaphthalene

R.T.: 7.415 min
Delta R.T.: 0.000 min
Response: 832869
Conc: 13.27 µg/ml



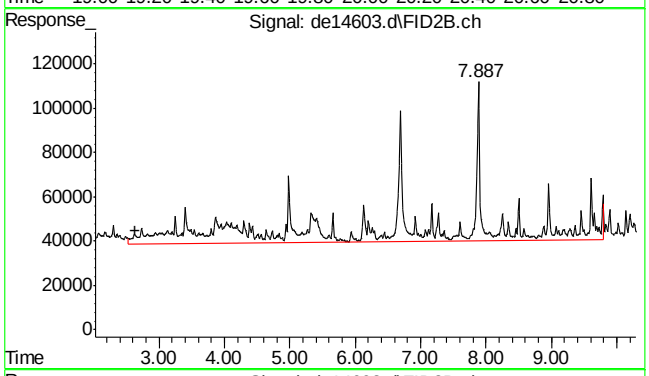
#11 o-terphenyl

R.T.: 9.937 min
Delta R.T.: -0.005 min
Response: 1316253
Conc: 12.85 µg/ml



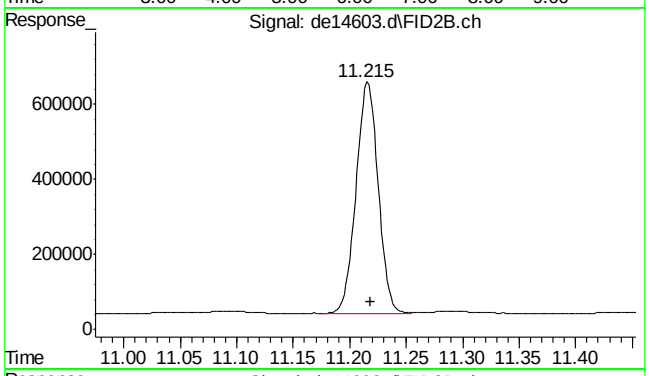
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



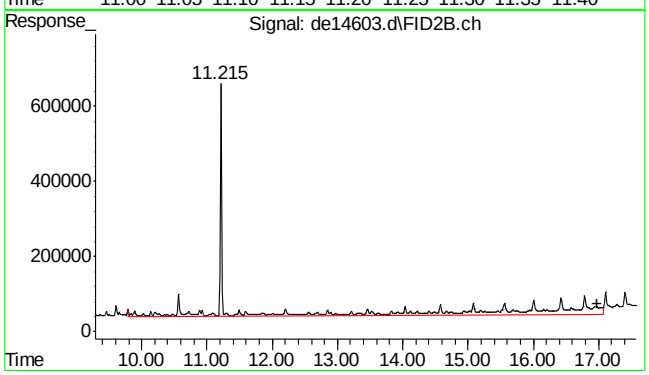
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 2237311
Conc: 30.29 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: -0.003 min
Response: 833706
Conc: 14.74 µg/ml

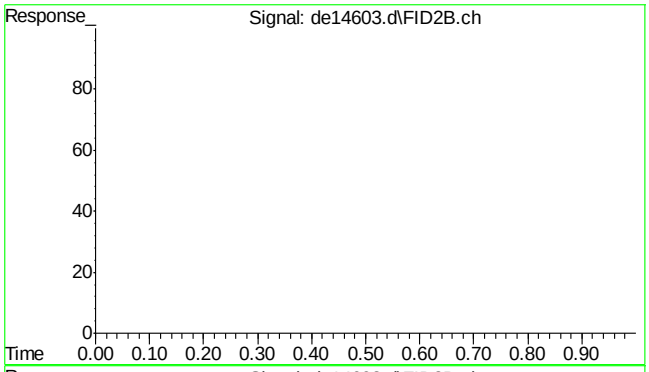


#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3459958
Conc: 51.79 µg/ml m

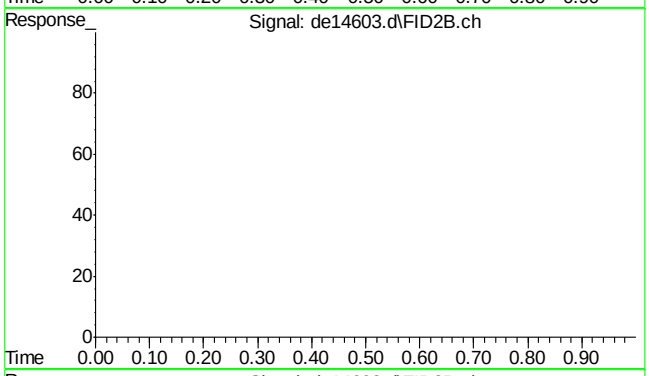
9.1.4

9



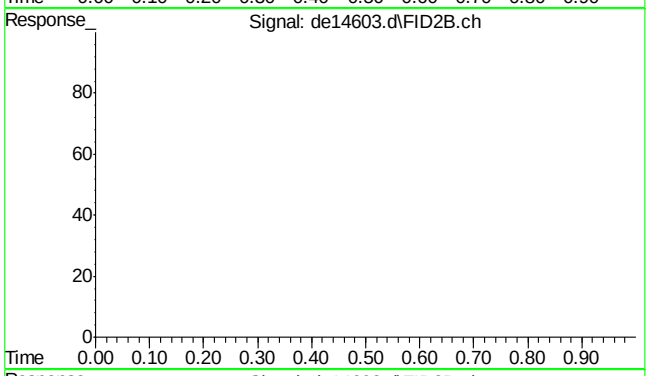
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



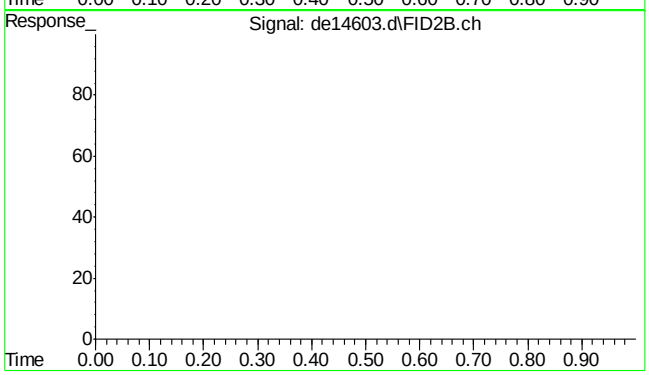
#43 bht

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\DE160615EPH\
Data File : de14604.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 10:30 pm
Operator : thomasa
Sample : mc46340-5a,op47843 (Sig #1); mc46340-5a,op47853 (Sig #2)
Misc : op47843,gde811,970,,,2,,w
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:40:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.688	1205910	13.075 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 65.38%#	
6) s 2-bromonaphthalene	7.415	857705	13.668 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 68.34%#	
11) s o-terphenyl	9.935	1295288	12.646 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 63.23%#	
35) s 1-chlorooctadecane	11.215	718080	12.693 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 63.46%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3340643	34.017 µg/mlm
25) h c-9	2.647	1700859	23.024 µg/mlm
41) h c-36	16.983	2926014	43.798 µg/mlm

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

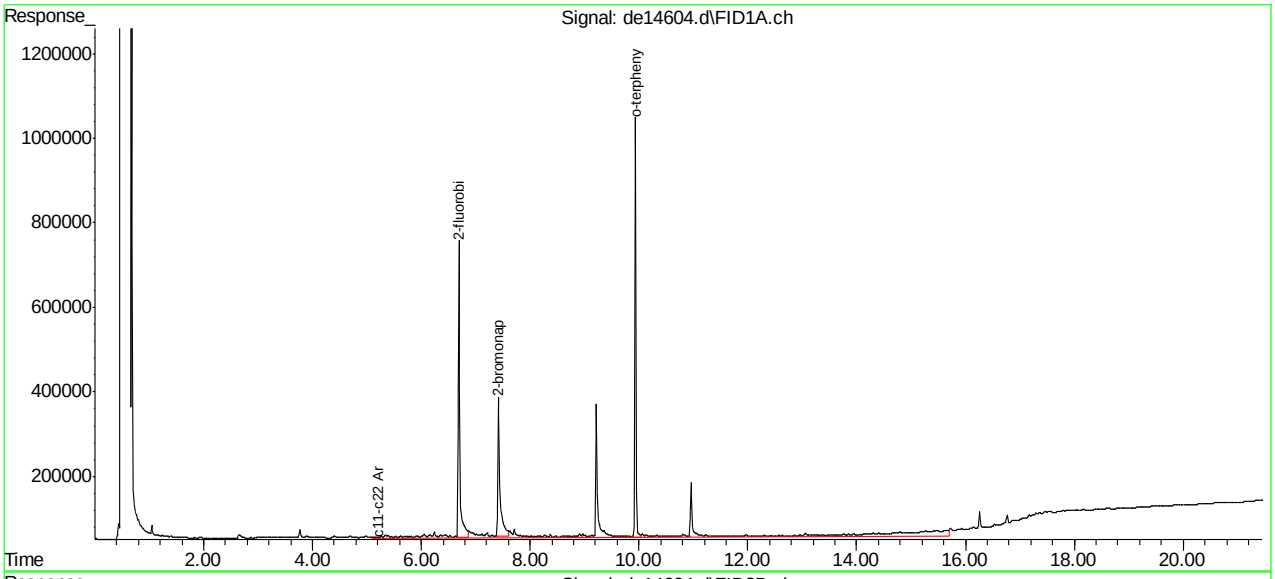
SGS ACCUTEST MC46340

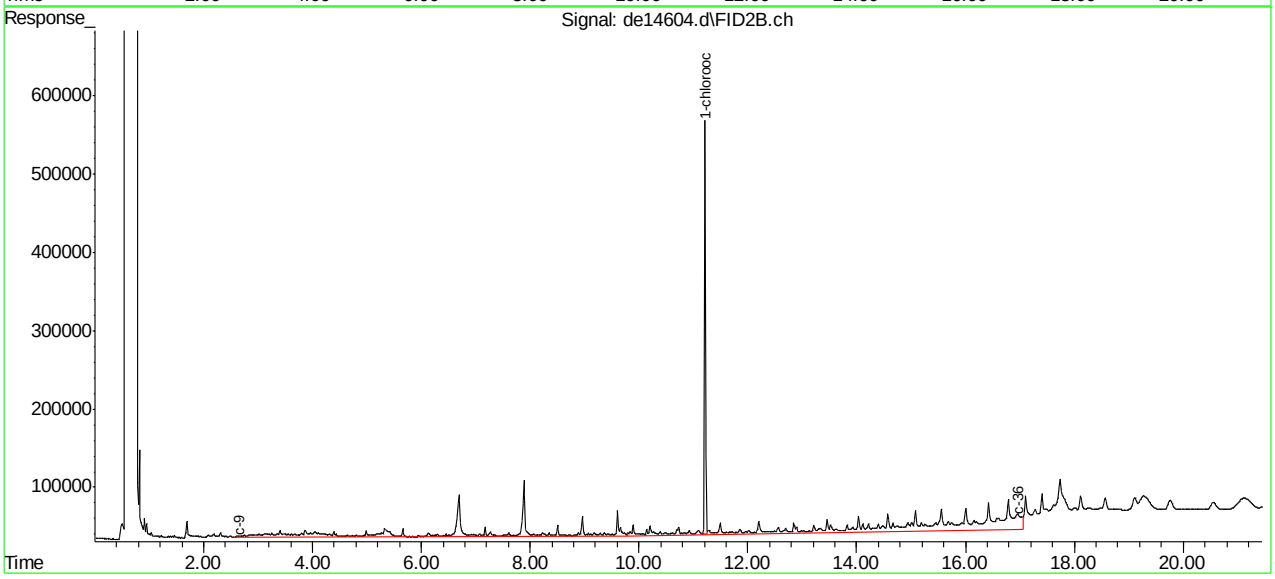
Quantitation Report (QT Reviewed)

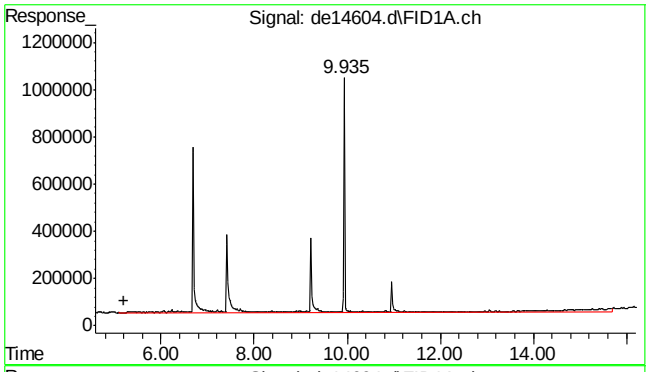
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14604.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 10:30 pm
Operator : thomasa
Sample : mc46340-5a,op47843 (Sig #1); mc46340-5a,op47853 (Sig #2)
Misc : op47843,gde811,970,,,2,,w
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:40:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

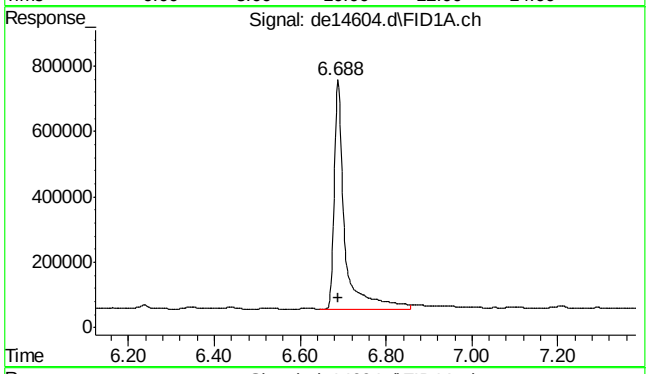






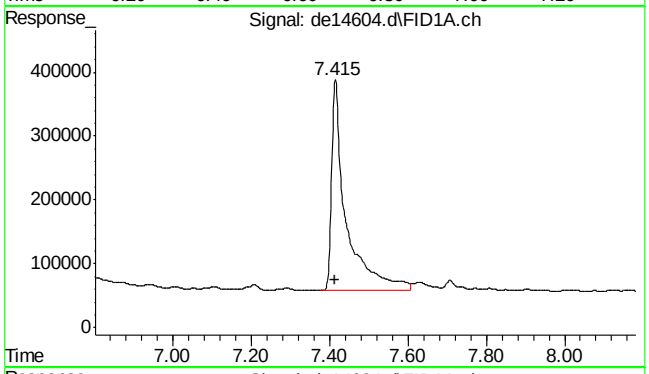
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3340643
Conc: 34.02 µg/ml m



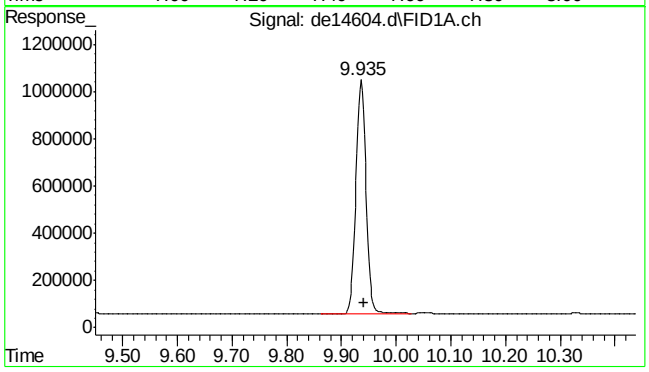
#4 2-fluorobiphenyl

R.T.: 6.688 min
Delta R.T.: 0.000 min
Response: 1205910
Conc: 13.08 µg/ml



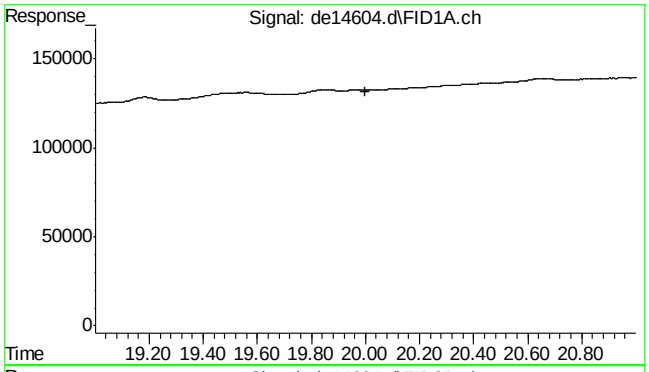
#6 2-bromonaphthalene

R.T.: 7.415 min
Delta R.T.: 0.000 min
Response: 857705
Conc: 13.67 µg/ml



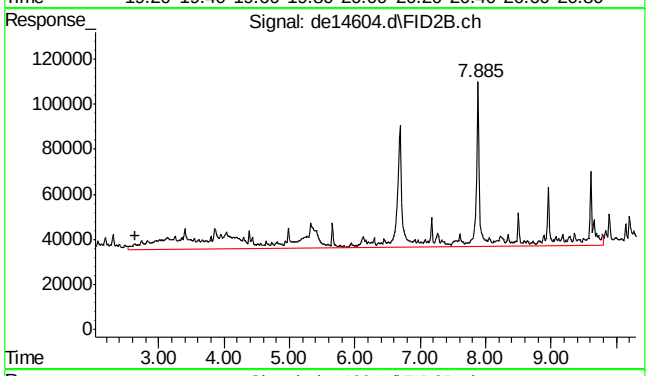
#11 o-terphenyl

R.T.: 9.935 min
Delta R.T.: -0.007 min
Response: 1295288
Conc: 12.65 µg/ml



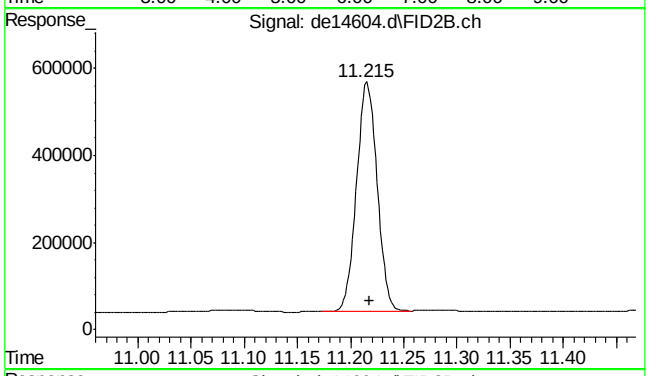
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



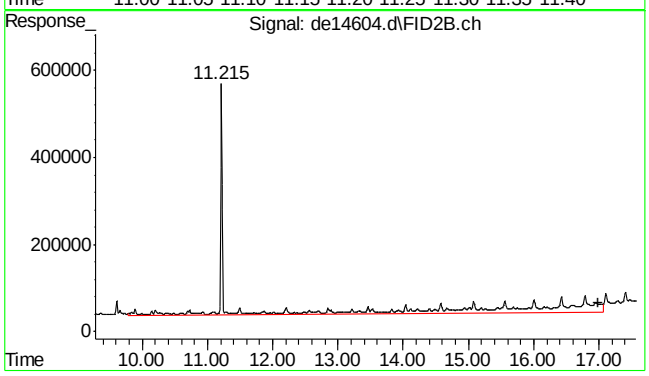
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1700859
Conc: 23.02 µg/ml m



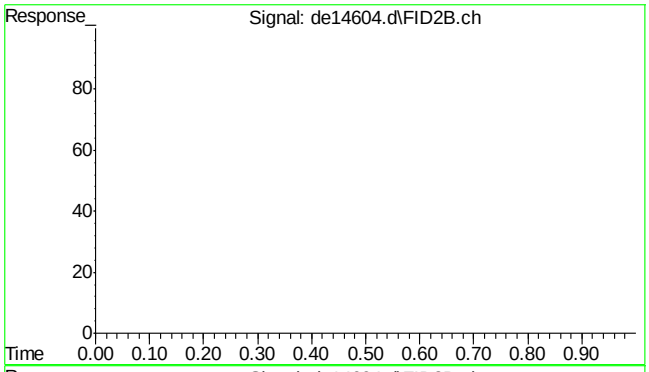
#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: -0.003 min
Response: 718080
Conc: 12.69 µg/ml



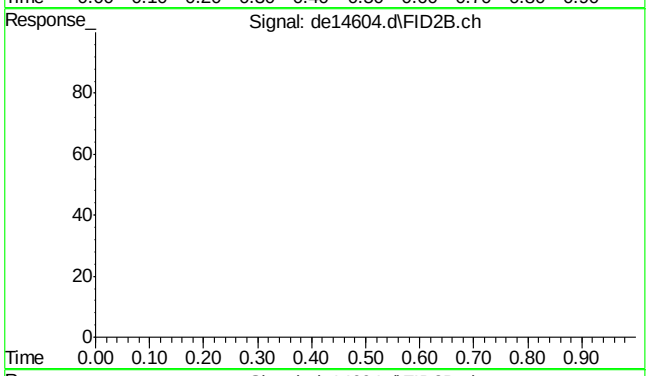
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 2926014
Conc: 43.80 µg/ml m



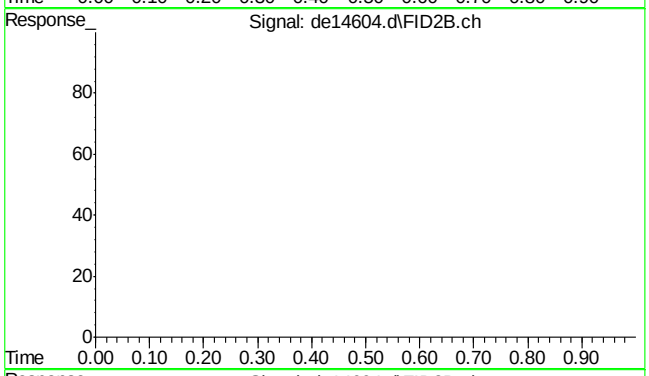
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



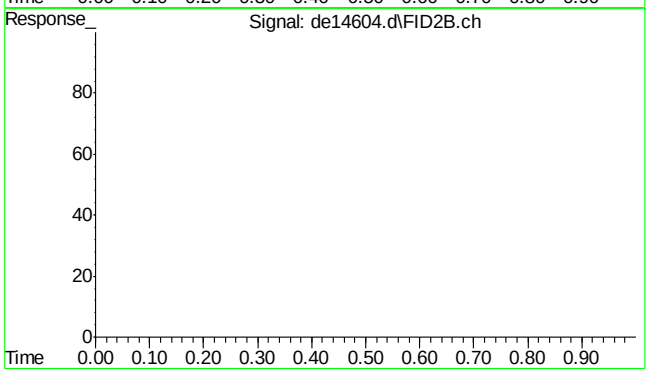
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#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\DE160615EPH\
Data File : de14605.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 10:58 pm
Operator : thomasa
Sample : mc46340-6a,op47843 (Sig #1); mc46340-6a,op47853 (Sig #2)
Misc : op47843,gde811,960,,,2,,w
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:42:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.685	1358415	14.729 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 73.64%#		
6) s 2-bromonaphthalene	7.413	928607	14.797 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 73.98%#		
11) s o-terphenyl	9.935	1399859	13.667 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 68.34%#		
35) s 1-chlorooctadecane	11.217	691992	12.231 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 61.16%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	1877543	19.119 µg/mlm
25) h c-9	2.647	1546598	20.936 µg/mlm
41) h c-36	16.983	2778781	41.595 µg/mlm

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

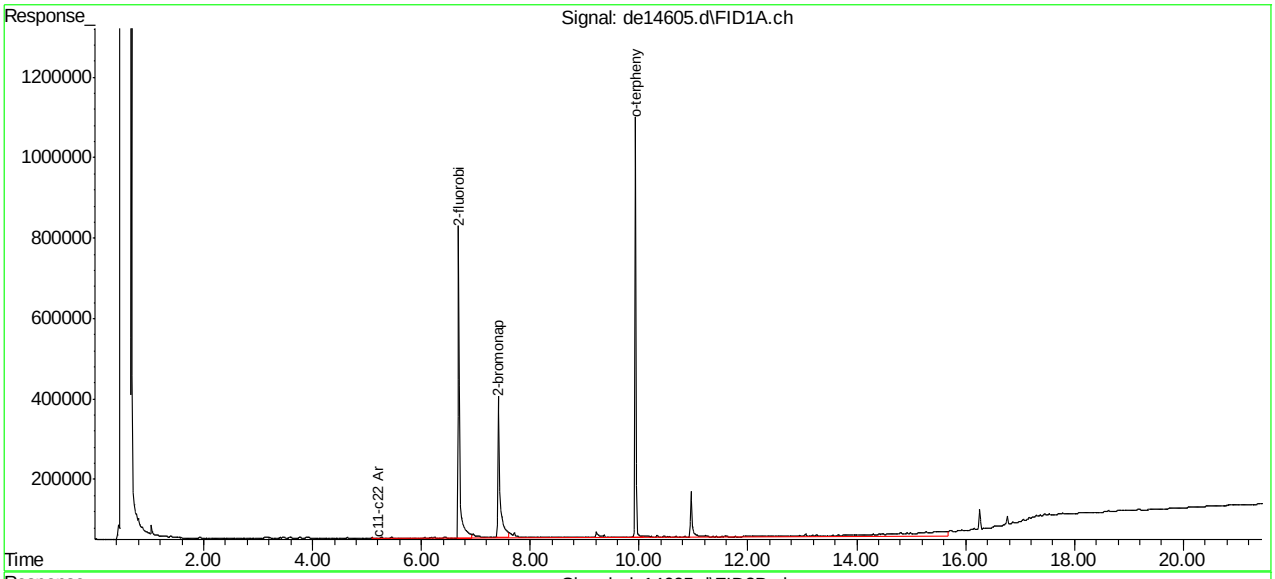
SGS ACCUTEST MC46340

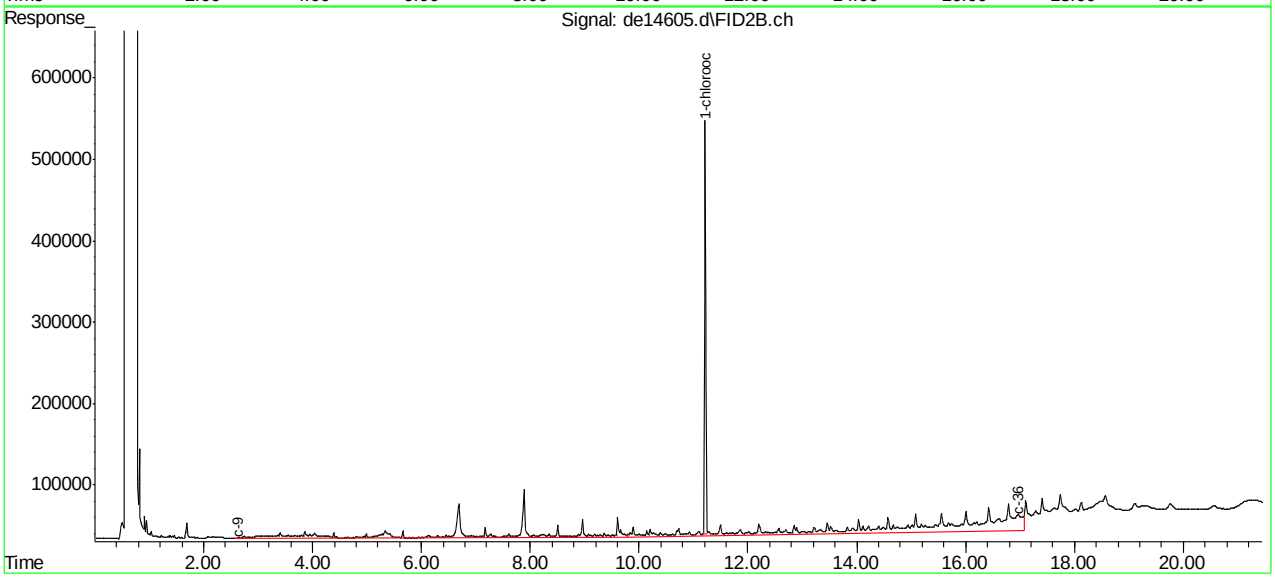
Quantitation Report (QT Reviewed)

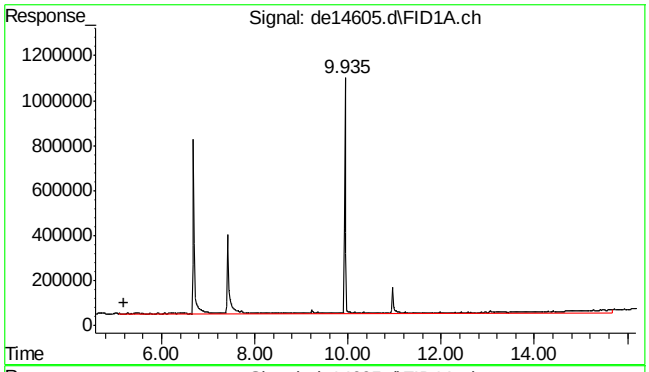
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14605.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 10:58 pm
Operator : thomasa
Sample : mc46340-6a,op47843 (Sig #1); mc46340-6a,op47853 (Sig #2)
Misc : op47843,gde811,960,,,2,,w
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:42:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

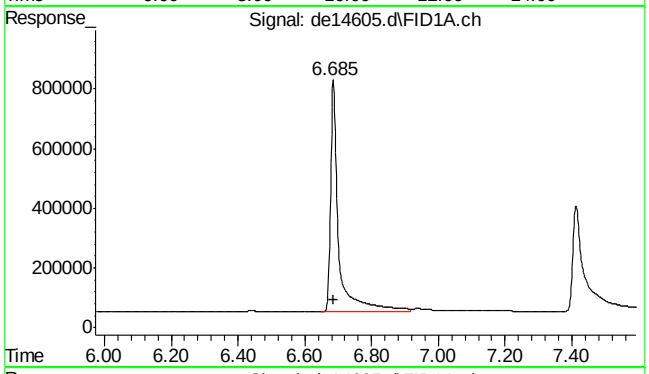






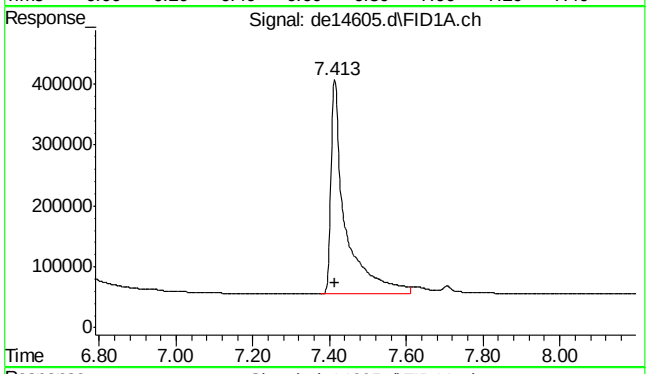
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 1877543
Conc: 19.12 µg/ml m



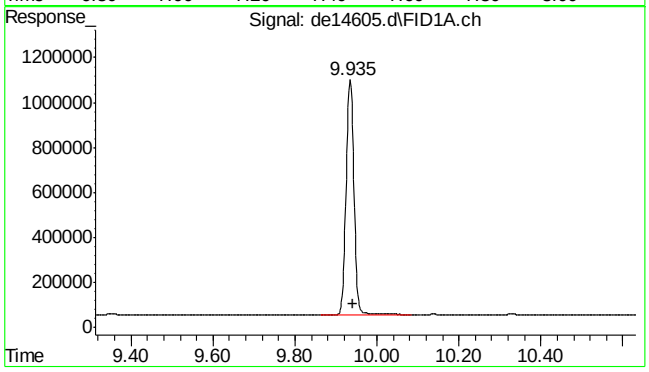
#4 2-fluorobiphenyl

R.T.: 6.685 min
Delta R.T.: -0.003 min
Response: 1358415
Conc: 14.73 µg/ml



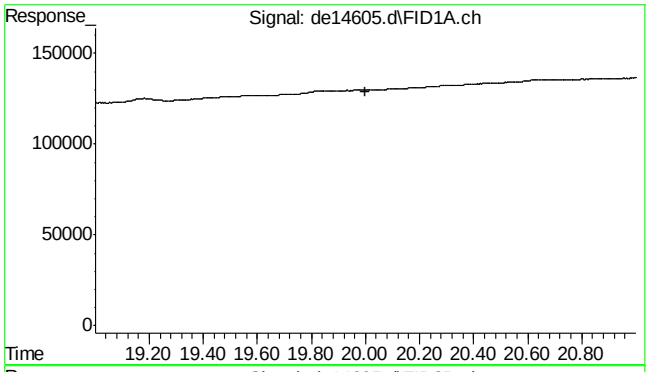
#6 2-bromonaphthalene

R.T.: 7.413 min
Delta R.T.: -0.002 min
Response: 928607
Conc: 14.80 µg/ml



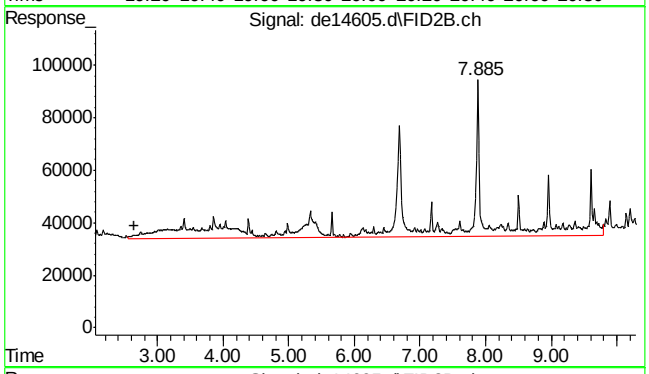
#11 o-terphenyl

R.T.: 9.935 min
Delta R.T.: -0.007 min
Response: 1399859
Conc: 13.67 µg/ml



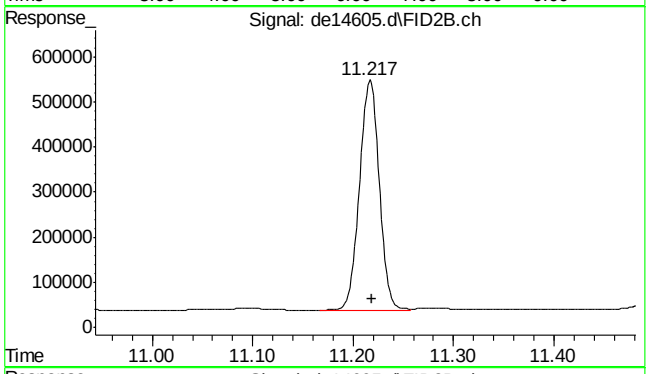
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



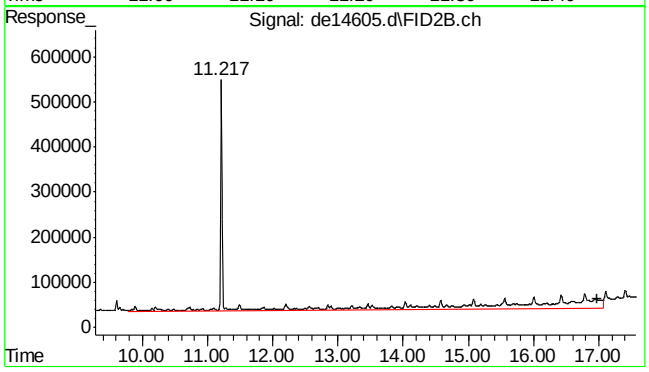
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1546598
Conc: 20.94 µg/ml m



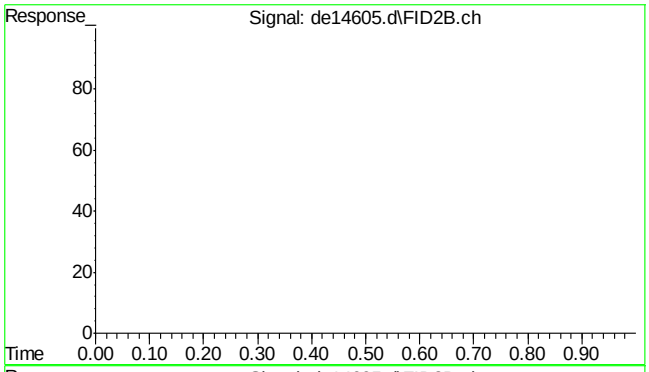
#35 1-chlorooctadecane

R.T.: 11.217 min
Delta R.T.: -0.002 min
Response: 691992
Conc: 12.23 µg/ml



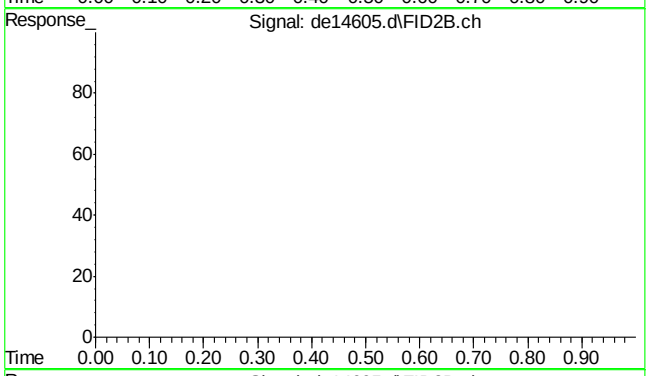
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 2778781
Conc: 41.59 µg/ml m



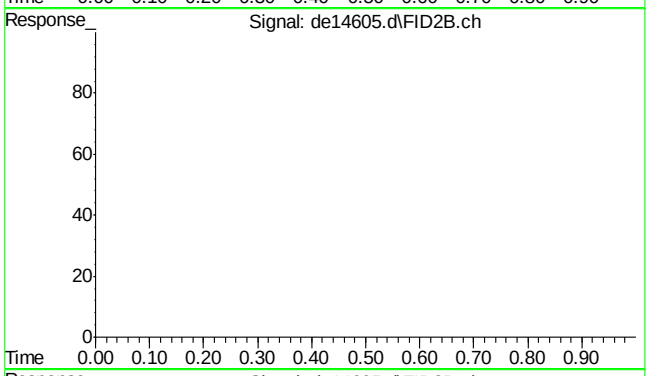
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



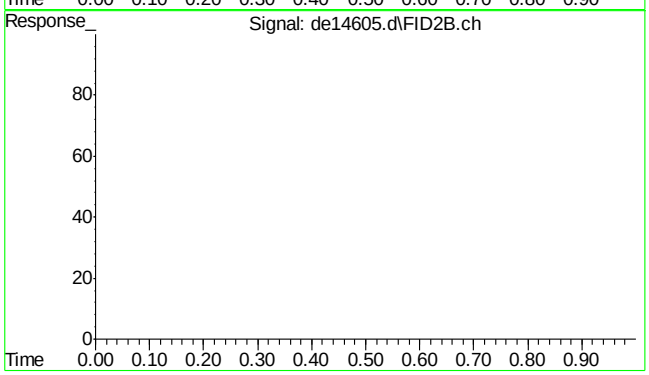
#43 bht

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\DE160615EPH\
Data File : de14606.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 11:26 pm
Operator : thomasa
Sample : mc46340-7a,op47843 (Sig #1); mc46340-7a,op47853 (Sig #2)
Misc : op47843,gde811,990,,,2,,w
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:44:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.687	1235589	13.397 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	66.98%#
6) s 2-bromonaphthalene	7.413	809635	12.902 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	64.51%#
11) s o-terphenyl	9.935	1183370	11.553 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	57.77%#
35) s 1-chlorooctadecane	11.215	833212	14.728 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	73.64%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2937033	29.907 µg/mlm
25) h c-9	2.647	1573795	21.304 µg/mlm
41) h c-36	16.983	2615801	39.155 µg/mlm

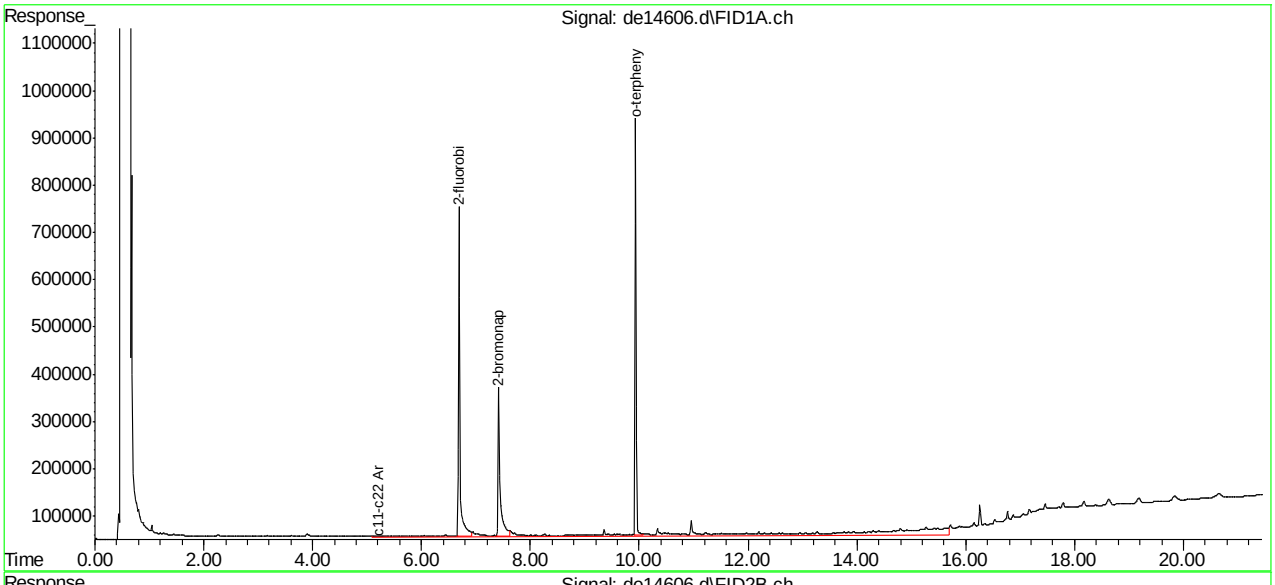
(f)=RT Delta > 1/2 Window (m)=manual int.

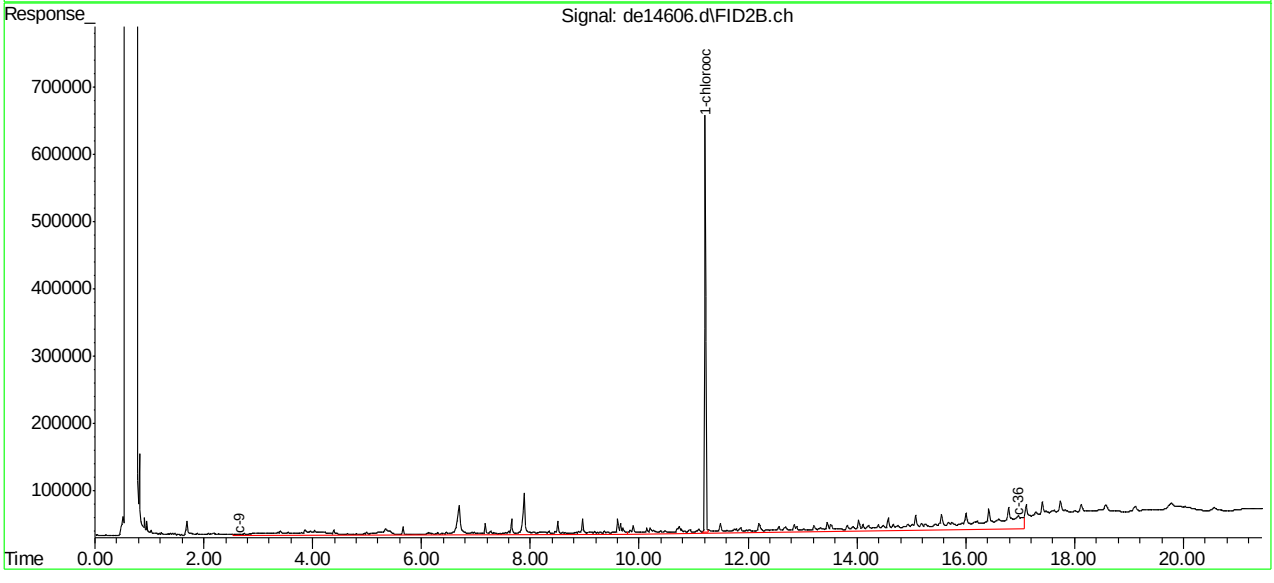
Quantitation Report (QT Reviewed)

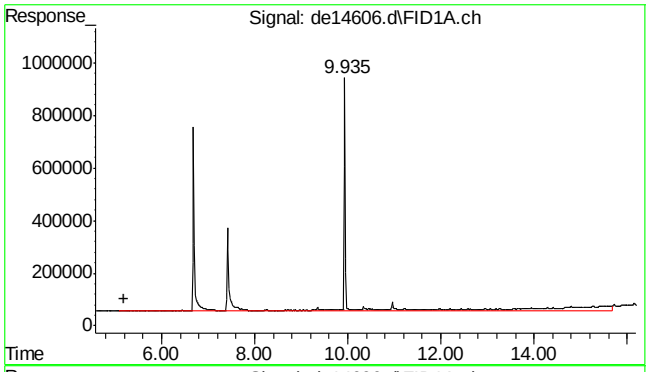
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14606.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 11:26 pm
Operator : thomasa
Sample : mc46340-7a,op47843 (Sig #1); mc46340-7a,op47853 (Sig #2)
Misc : op47843,gde811,990,,,2,,w
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:44:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

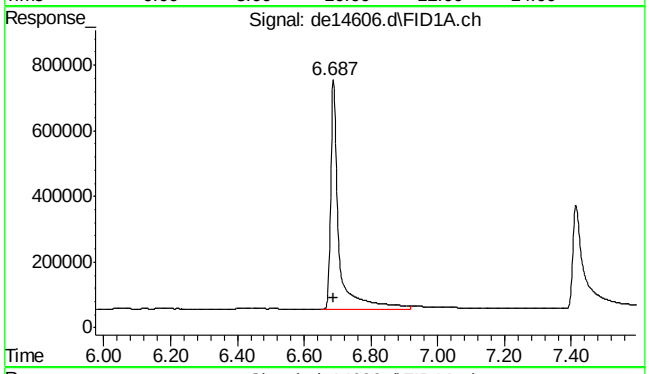






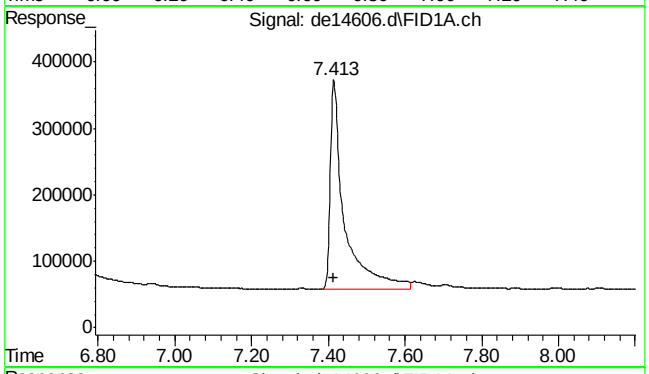
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2937033
Conc: 29.91 µg/ml m



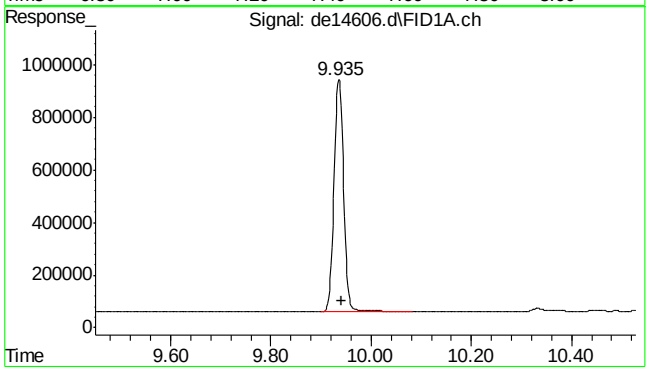
#4 2-fluorobiphenyl

R.T.: 6.687 min
Delta R.T.: -0.002 min
Response: 1235589
Conc: 13.40 µg/ml



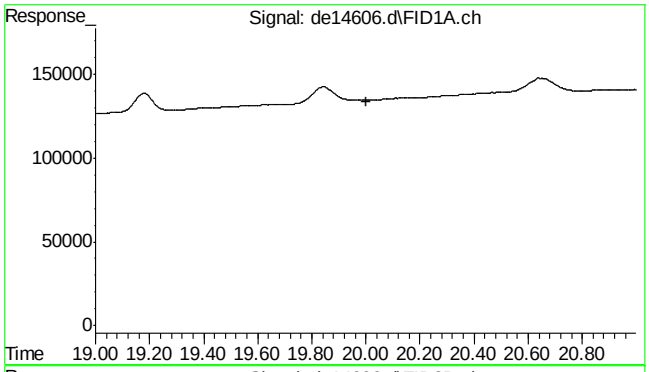
#6 2-bromonaphthalene

R.T.: 7.413 min
Delta R.T.: -0.002 min
Response: 809635
Conc: 12.90 µg/ml



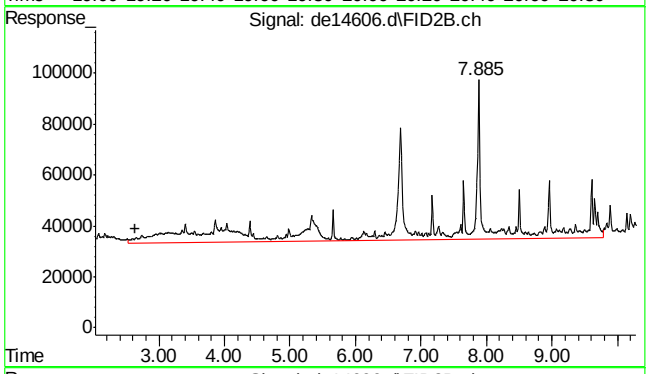
#11 o-terphenyl

R.T.: 9.935 min
Delta R.T.: -0.007 min
Response: 1183370
Conc: 11.55 µg/ml



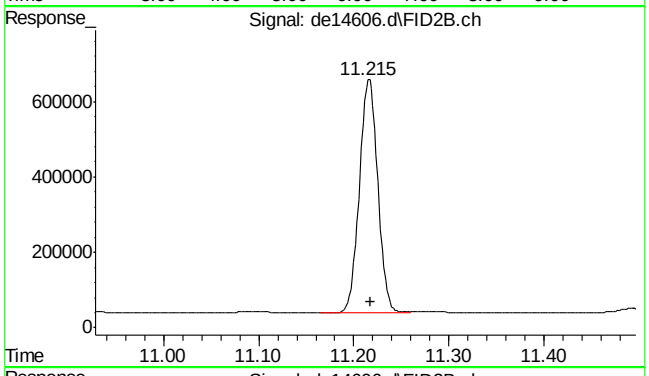
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



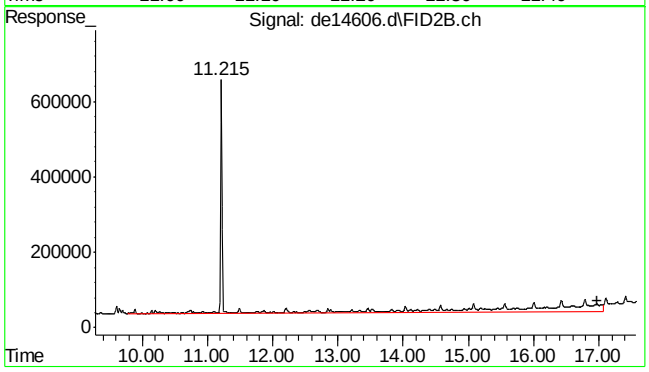
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1573795
Conc: 21.30 µg/ml m



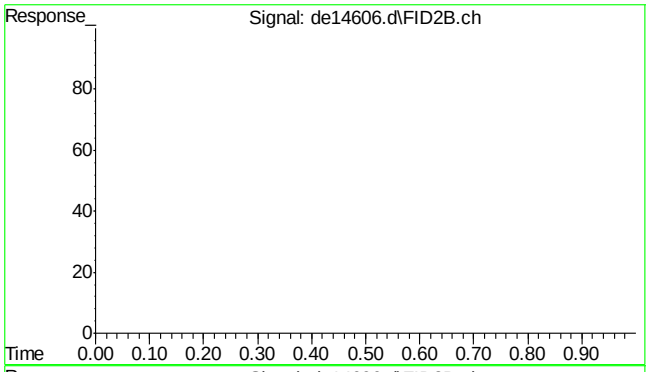
#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: -0.003 min
Response: 833212
Conc: 14.73 µg/ml



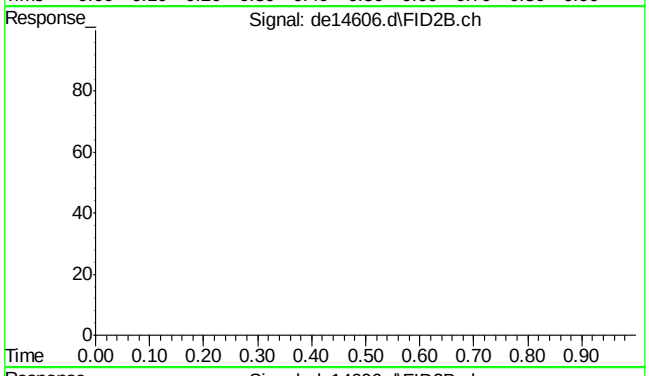
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 2615801
Conc: 39.15 µg/ml m



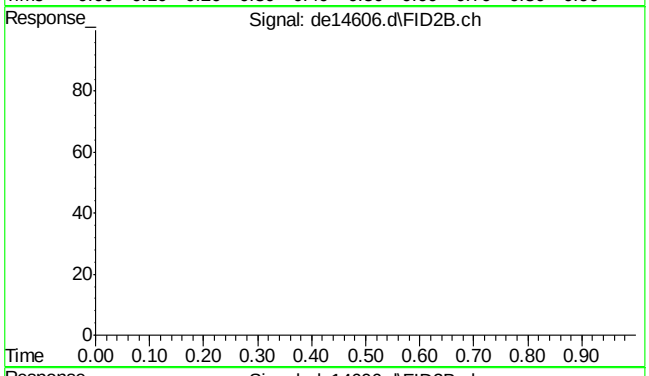
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



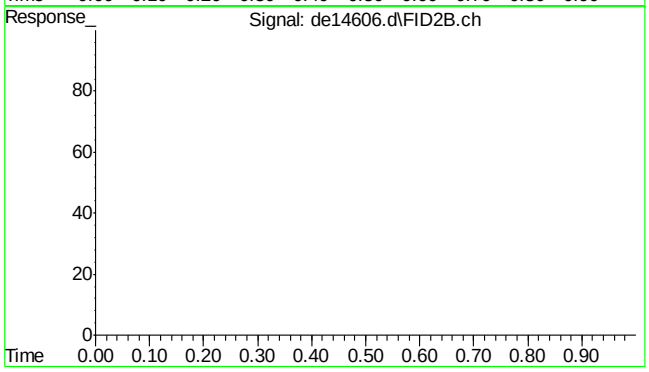
#43 bht

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\DE160615EPH\
Data File : de14607.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 11:54 pm
Operator : thomasa
Sample : mc46340-8a,op47843 (Sig #1); mc46340-8a,op47853 (Sig #2)
Misc : op47843,gde811,880,,,2,,w
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:50:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.687	1385000	15.017 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 75.09%#	
6) s 2-bromonaphthalene	7.413	937330	14.936 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 74.68%#	
11) s o-terphenyl	9.933	1460905	14.263 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 71.31%#	
35) s 1-chlorooctadecane	11.217	819055	14.477 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 72.39%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2909874	29.631 µg/mlm
25) h c-9	2.647	1497630	20.273 µg/mlm
41) h c-36	16.983	2504999	37.496 µg/mlm

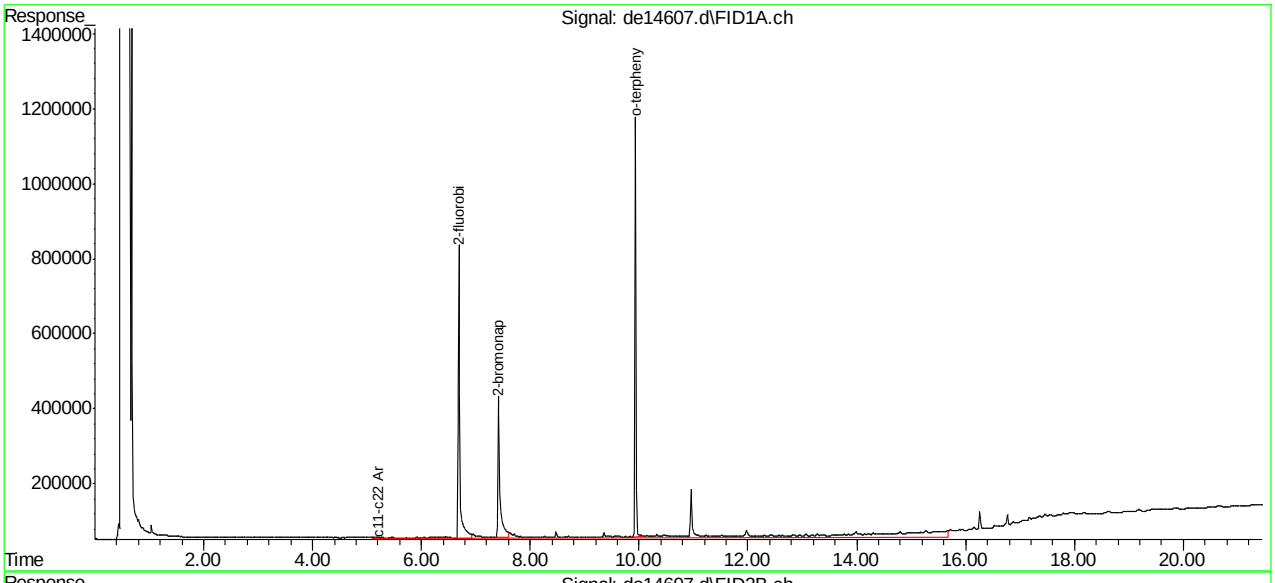
(f)=RT Delta > 1/2 Window (m)=manual int.

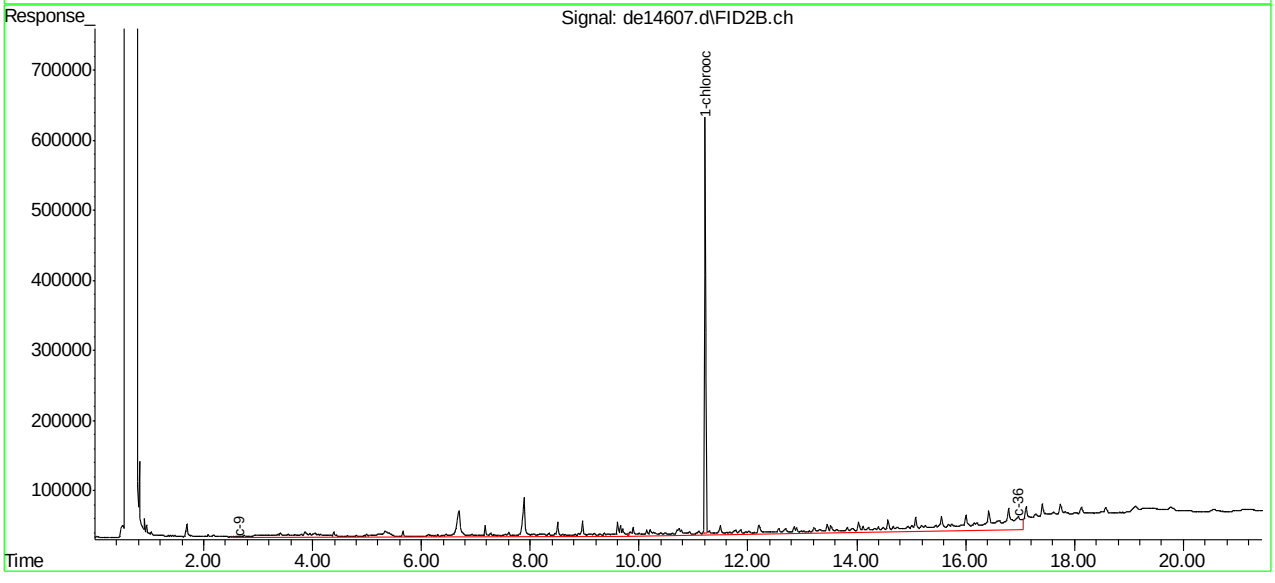
Quantitation Report (QT Reviewed)

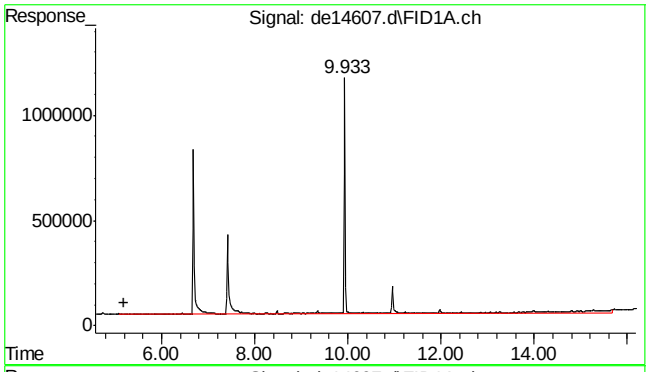
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14607.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 11:54 pm
Operator : thomasa
Sample : mc46340-8a,op47843 (Sig #1); mc46340-8a,op47853 (Sig #2)
Misc : op47843,gde811,880,,,2,,w
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 08:50:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

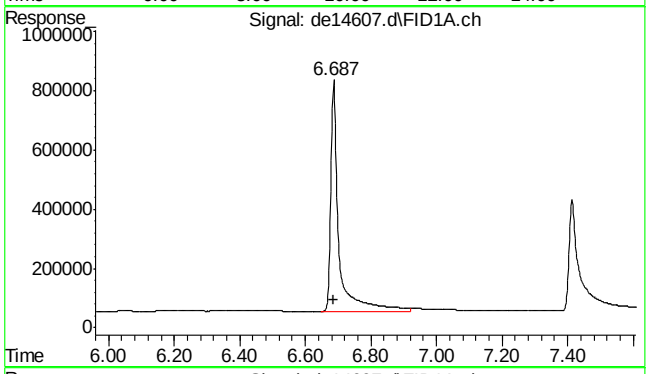






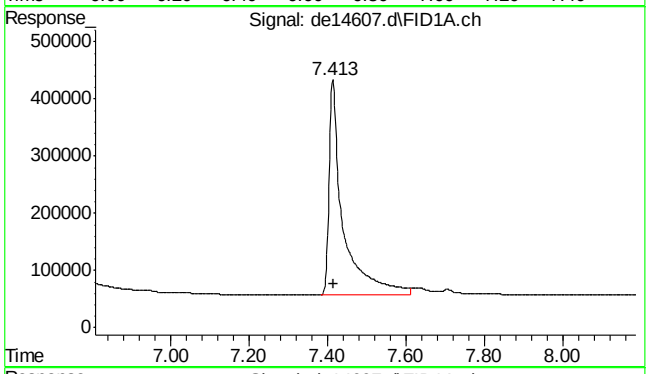
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2909874
Conc: 29.63 µg/ml m



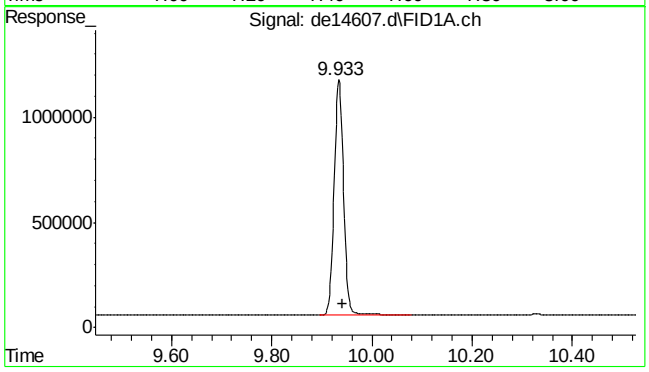
#4 2-fluorobiphenyl

R.T.: 6.687 min
Delta R.T.: -0.002 min
Response: 1385000
Conc: 15.02 µg/ml



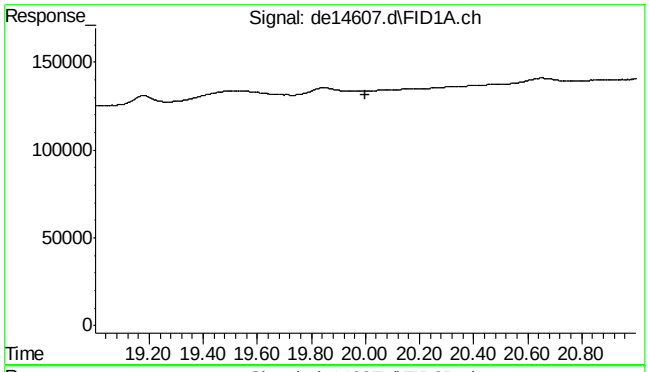
#6 2-bromonaphthalene

R.T.: 7.413 min
Delta R.T.: -0.002 min
Response: 937330
Conc: 14.94 µg/ml



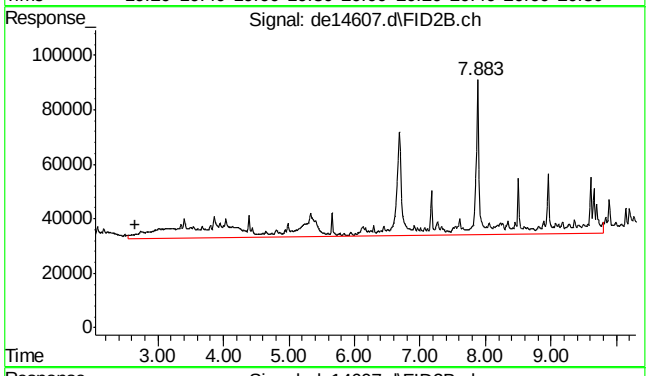
#11 o-terphenyl

R.T.: 9.933 min
Delta R.T.: -0.008 min
Response: 1460905
Conc: 14.26 µg/ml



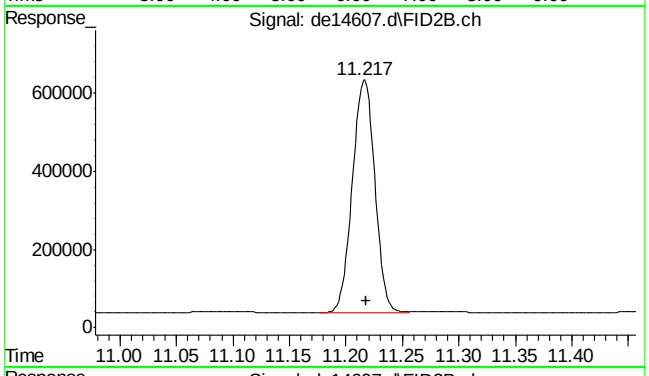
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



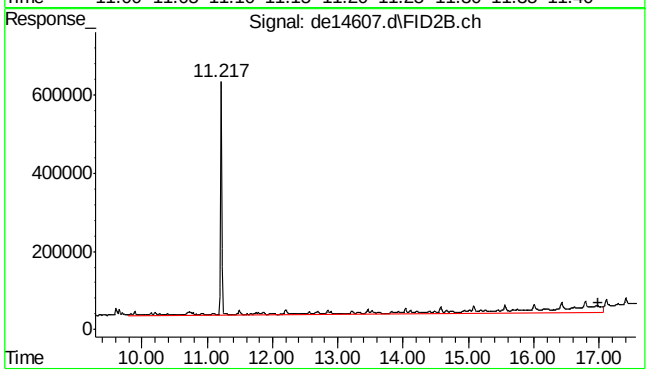
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1497630
Conc: 20.27 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.217 min
Delta R.T.: -0.002 min
Response: 819055
Conc: 14.48 µg/ml



#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 2504999
Conc: 37.50 µg/ml m

9.1.8

9

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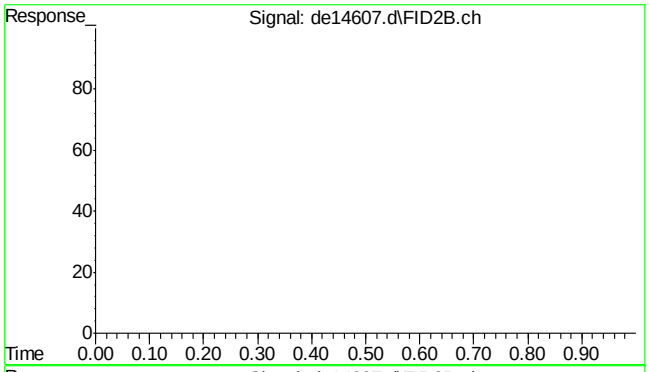
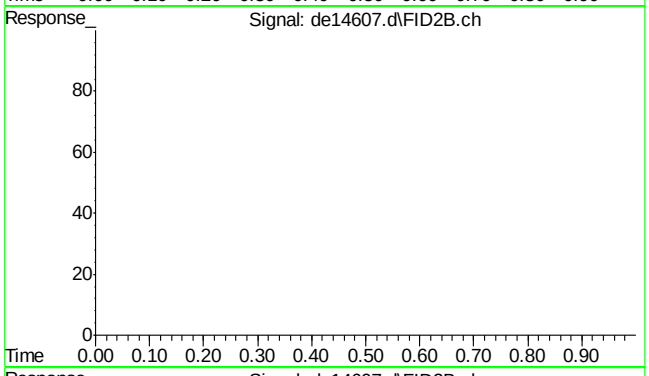


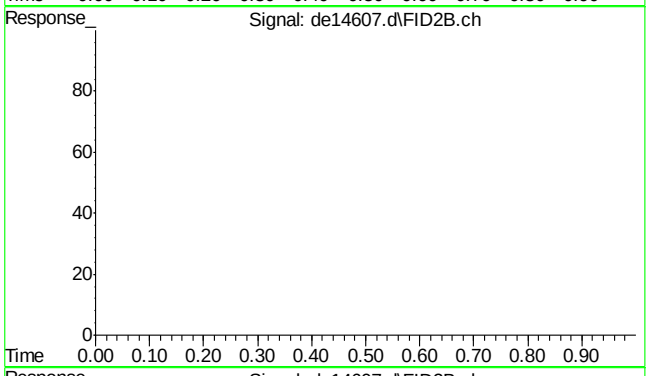
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



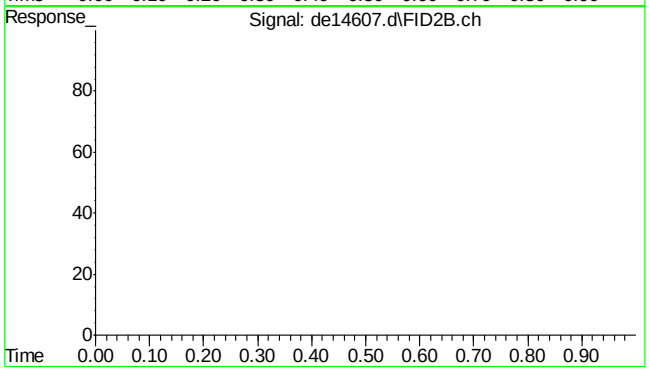
#43 bht

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\DE160615EPH\
Data File : de14592.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:56 pm
Operator : thomasa
Sample : op47843-mb (Sig #1); op47853-mb (Sig #2)
Misc : op47843,gde811,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:39:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.692	1242397	13.471 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 67.36%#		
6) s 2-bromonaphthalene	7.418	835764	13.318 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 66.59%#		
11) s o-terphenyl	9.938	1207956	11.793 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 58.97%#		
35) s 1-chlorooctadecane	11.217	753452	13.318 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 66.59%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	1472276	14.992 µg/mlm
2) naphthalene	5.268	3992	0.039 µg/ml
3) 2-methylnaphthalene	6.160	1820	0.018 µg/ml
10) anthracene	9.358	3883	0.040 µg/ml
14) benzo(a)anthracene	12.635	2398	0.025 µg/ml
15) chrysene	12.635f	2398	0.025 µg/ml
18) benzo(a)pyrene	14.298f	4159	0.045 µg/ml
25) h c-9	2.647	1264644	17.119 µg/mlm
41) h c-36	16.983	1338687	20.038 µg/mlm

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

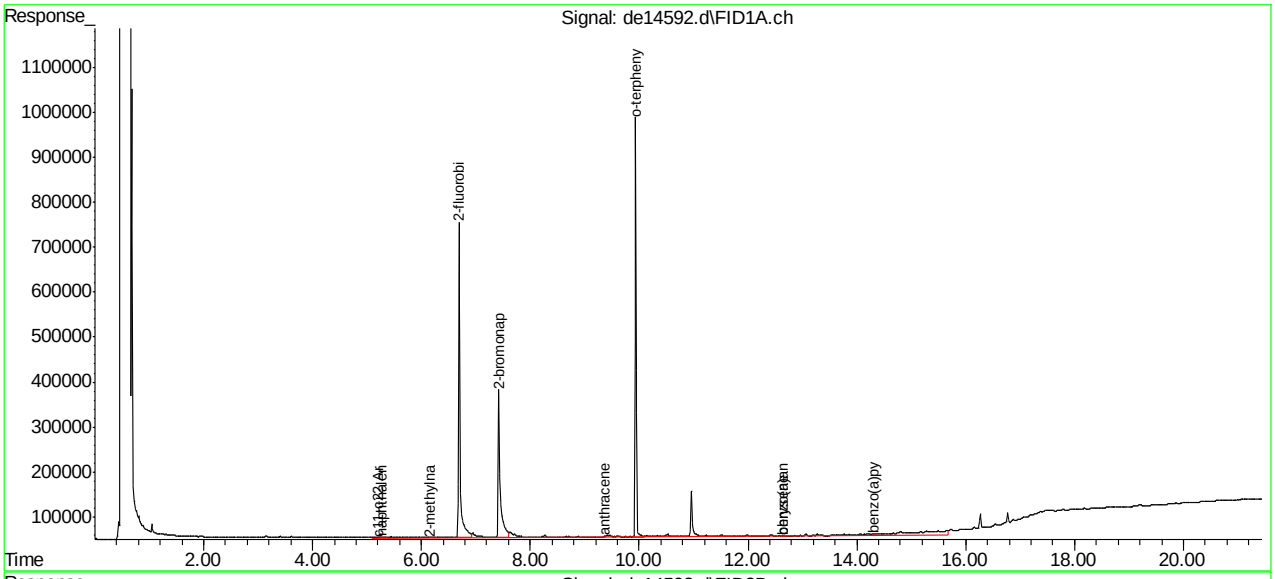
SGS ACCUTEST MC46340

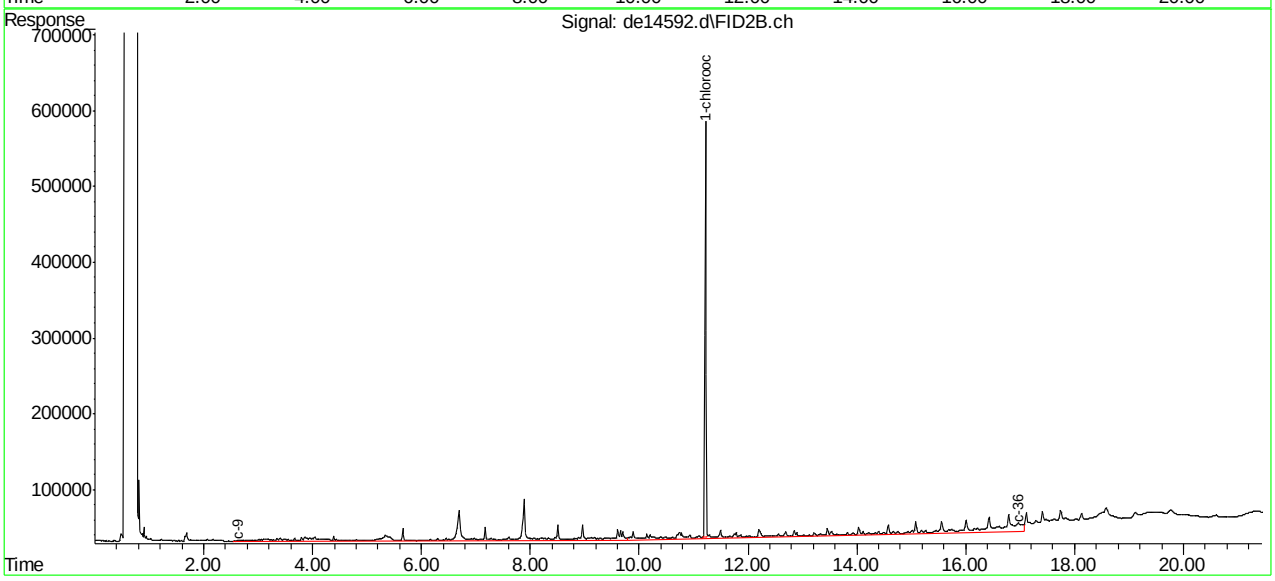
Quantitation Report (QT Reviewed)

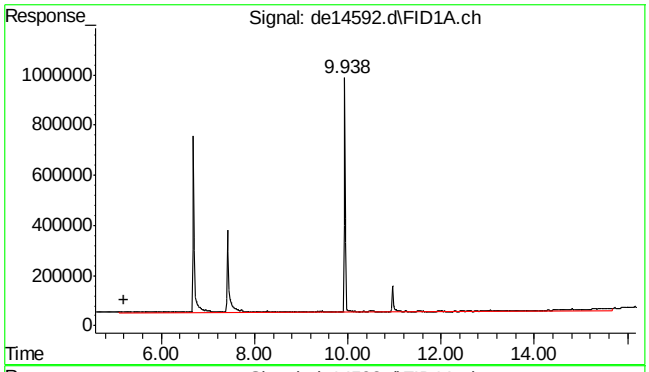
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14592.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:56 pm
Operator : thomasa
Sample : op47843-mb (Sig #1); op47853-mb (Sig #2)
Misc : op47843,gde811,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:39:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

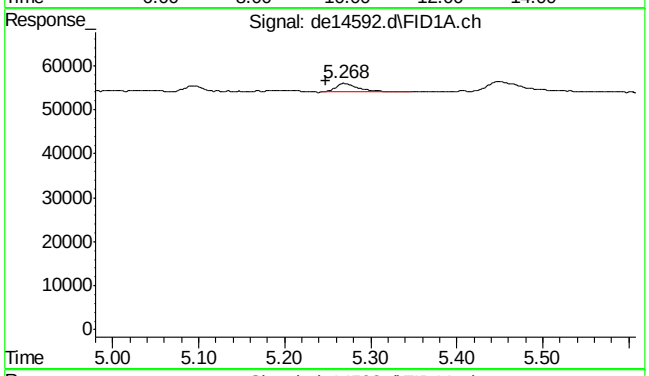






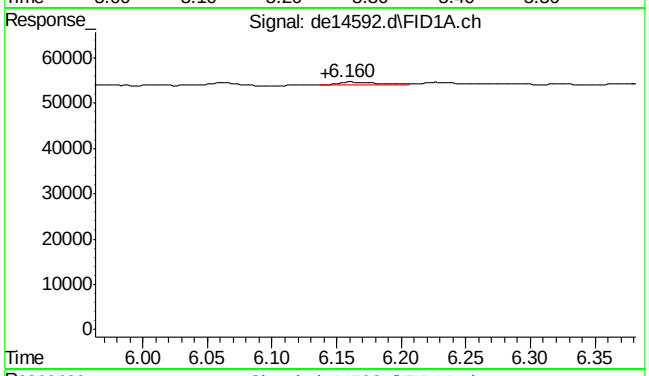
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 1472276
Conc: 14.99 µg/ml m



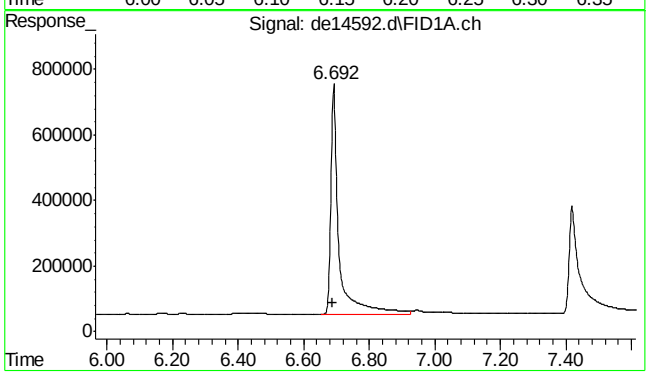
#2 naphthalene

R.T.: 5.268 min
Delta R.T.: 0.020 min
Response: 3992
Conc: 0.04 µg/ml



#3 2-methylnaphthalene

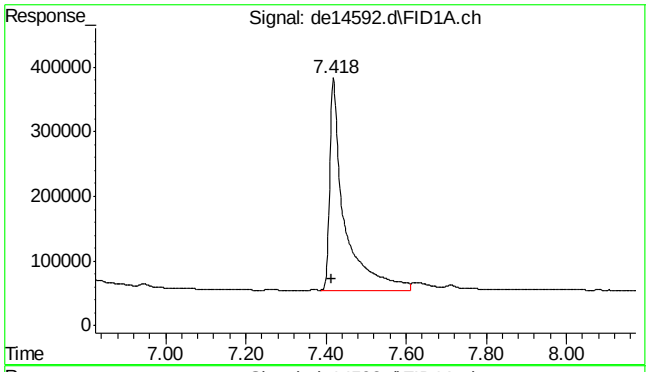
R.T.: 6.160 min
Delta R.T.: 0.018 min
Response: 1820
Conc: 0.02 µg/ml



#4 2-fluorobiphenyl

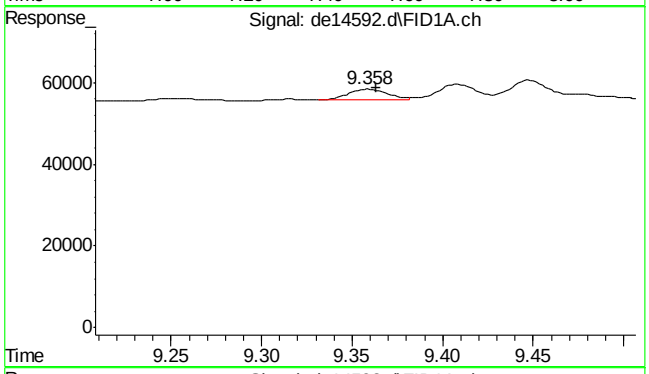
R.T.: 6.692 min
Delta R.T.: 0.003 min
Response: 1242397
Conc: 13.47 µg/ml

SGS ACCUTEST MC46340



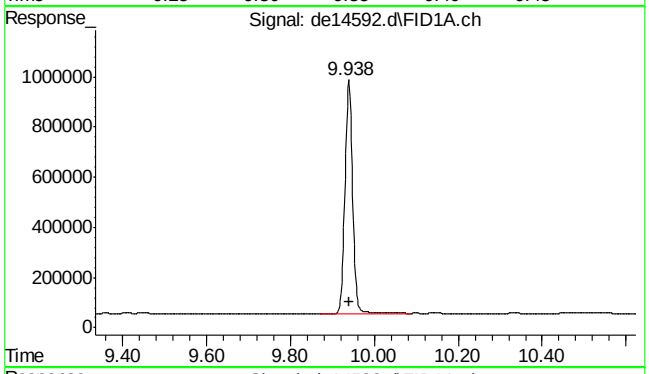
#6 2-bromonaphthalene

R.T.: 7.418 min
Delta R.T.: 0.003 min
Response: 835764
Conc: 13.32 µg/ml



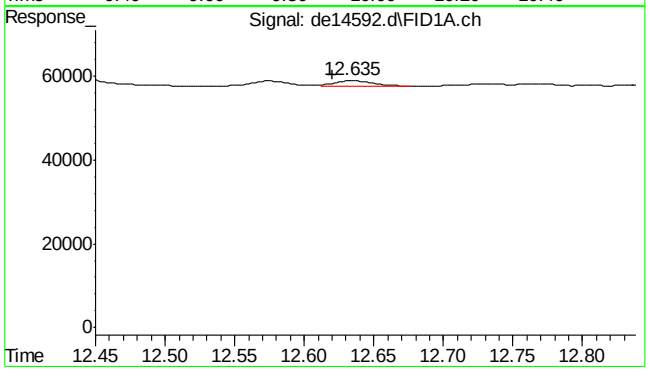
#10 anthracene

R.T.: 9.358 min
Delta R.T.: -0.005 min
Response: 3883
Conc: 0.04 µg/ml



#11 o-terphenyl

R.T.: 9.938 min
Delta R.T.: -0.003 min
Response: 1207956
Conc: 11.79 µg/ml



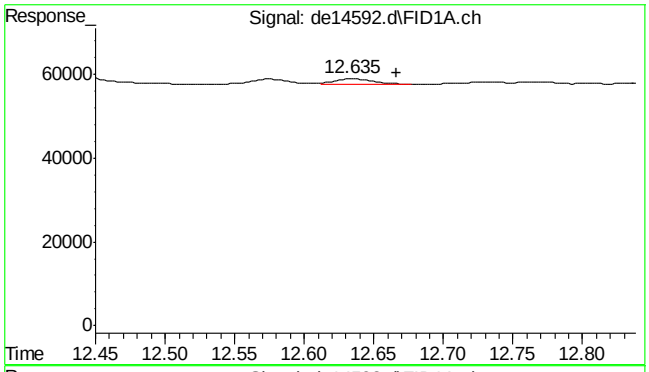
#14 benzo(a)anthracene

R.T.: 12.635 min
Delta R.T.: 0.015 min
Response: 2398
Conc: 0.02 µg/ml

9.2.1

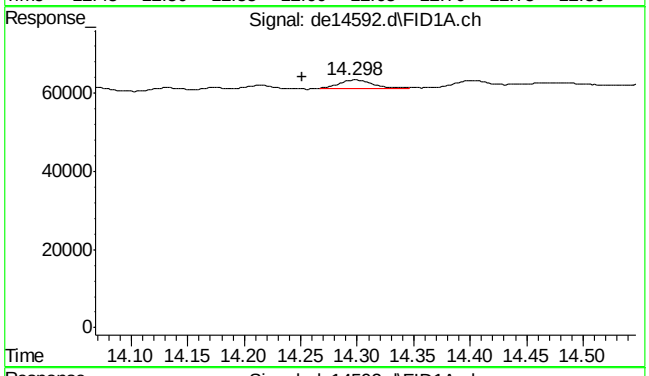
9

SGS ACCUTEST MC46340



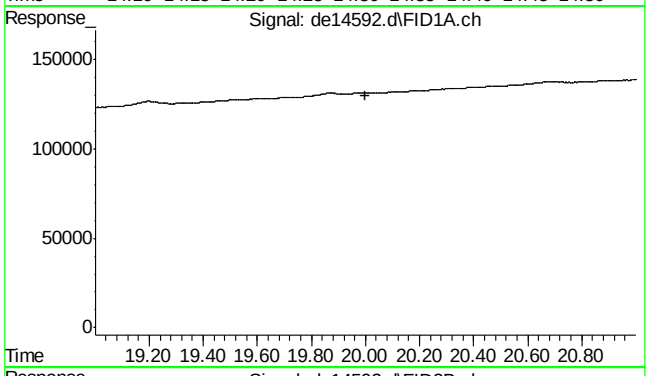
#15 chrysene

R.T.: 12.635 min
Delta R.T.: -0.032 min
Response: 2398
Conc: 0.02 µg/ml



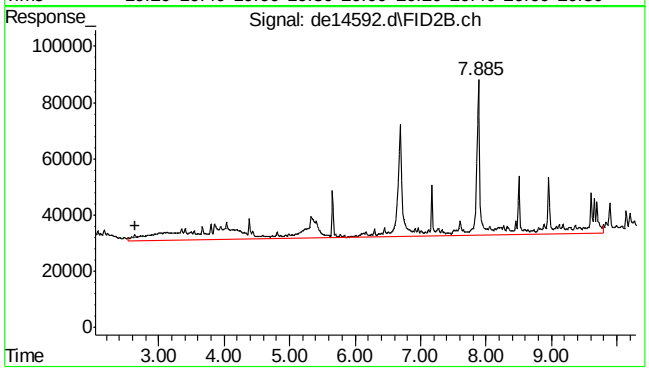
#18 benzo(a)pyrene

R.T.: 14.298 min
Delta R.T.: 0.047 min
Response: 4159
Conc: 0.04 µg/ml



#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



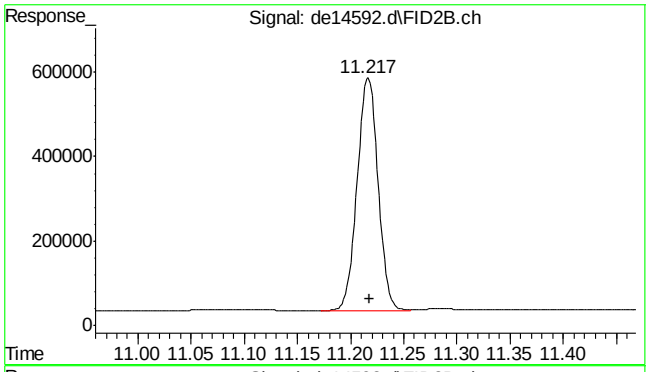
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1264644
Conc: 17.12 µg/ml m

9.2.1

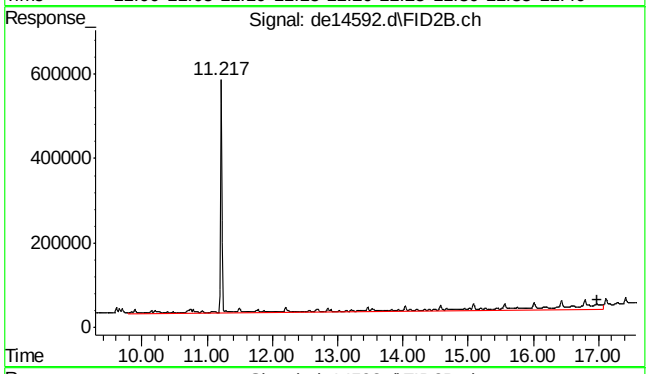
9

SGS ACCUTEST MC46340



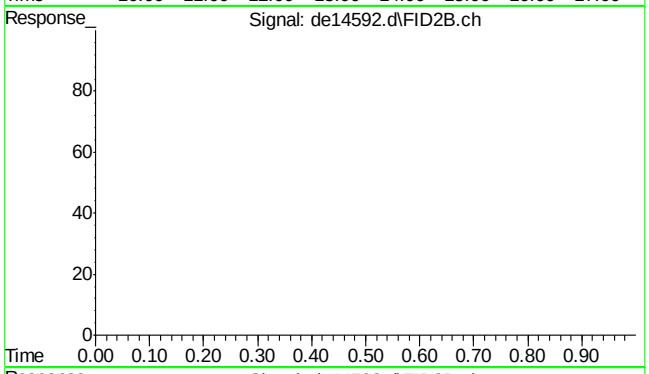
#35 1-chlorooctadecane

R.T.: 11.217 min
Delta R.T.: -0.002 min
Response: 753452
Conc: 13.32 µg/ml



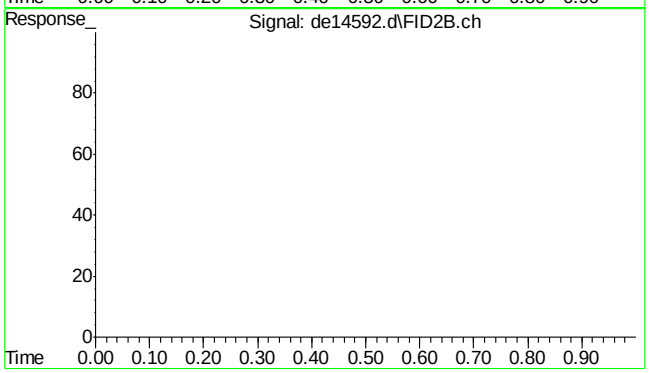
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1338687
Conc: 20.04 µg/ml m



#42 bht

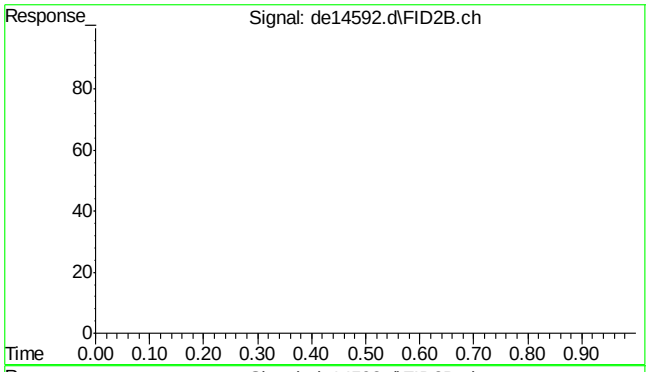
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

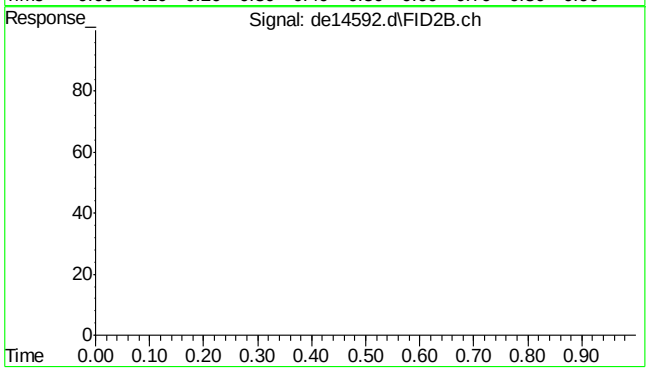
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46340



#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.

9.2.1

9

SGS ACCUTEST MC46340

Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160615EPH\
Data File : de14589.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 3:33 pm
Operator : thomasa
Sample : op47843-bs (Sig #1); op47853-bs (Sig #2)
Misc : op47843,gde811,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 11:01:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.695	1381137	14.975 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 74.88%#
6) s	2-bromonaphthalene	7.420	816101	13.005 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 65.03%#
11) s	o-terphenyl	9.942	1321738	12.904 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 64.52%#
35) s	1-chlorooctadecane	11.218	639179	11.298 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 56.49%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.203	31217334	317.880 µg/mlm
2)	naphthalene	5.258	1135592	11.010 µg/ml
3)	2-methylnaphthalene	6.148	1206628	11.774 µg/ml
5)	acenaphthylene	7.252	1391094	13.828 µg/ml
7)	acenaphthene	7.492	1715701	16.597 µg/ml
8)	fluorene	8.132	1475915	14.531 µg/ml
9)	phenanthrene	9.308	1483983	14.583 µg/ml
10)	anthracene	9.367	1705444	17.580 µg/ml
12)	fluoranthene	10.805	1725464	17.265 µg/ml
13)	pyrene	11.062	1757508	17.322 µg/ml
14)	benzo(a)anthracene	12.620	1698181	17.566 µg/ml
15)	chrysene	12.665	1831275	18.813 µg/ml
16)	benzo(B)fluoranthene	13.912	1792954	18.110 µg/ml
17)	benzo(k)fluoranthene	13.940	1800617	19.054 µg/ml
18)	benzo(a)pyrene	14.248	1781057	19.268 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.387	1825064	19.281 µg/ml
20)	dibenzo(ah)anthracene	15.428	1834825	20.075 µg/ml
21)	benzo(ghi)perylene	15.607	1833866	19.907 µg/ml
25) h	c-9	2.647	875563	11.852 µg/mlm
26) h	c-10	3.815	1089756	14.752 µg/ml
28)	c-12	5.655	1233568	16.699 µg/ml
30)	c-14	7.173	1328270	17.981 µg/ml
31)	c-16	8.503	1404145	19.008 µg/ml
32)	c-18	9.698	1431548	19.379 µg/ml
33)	c-19	10.253	1442102	21.586 µg/ml
34)	c-20	10.785	1408743	21.087 µg/ml
36)	c-22	11.780	1406123	21.048 µg/ml
37)	c-24	12.698	1395929	20.895 µg/ml
38)	c-26	13.550	1366022	20.447 µg/ml
39)	c-28	14.345	1343066	20.104 µg/ml
40) h	c-30	15.098	1387359	20.767 µg/ml
41) h	c-36	16.983	1161711	17.389 µg/mlm

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

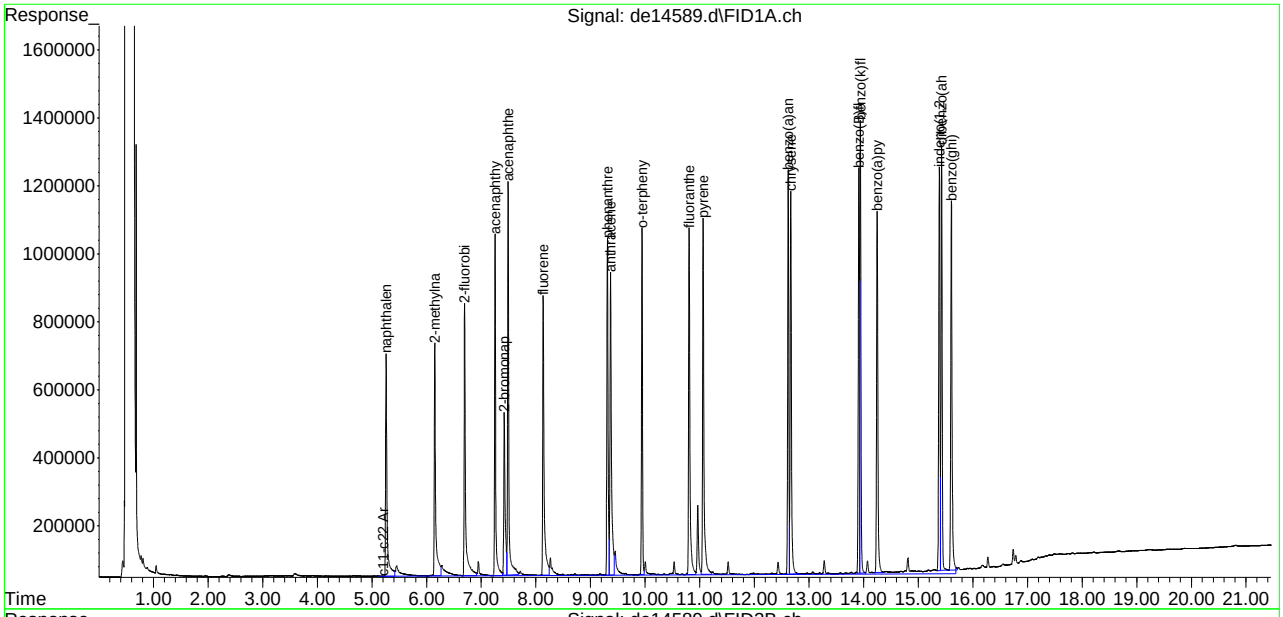
SGS ACCUTEST MC46340

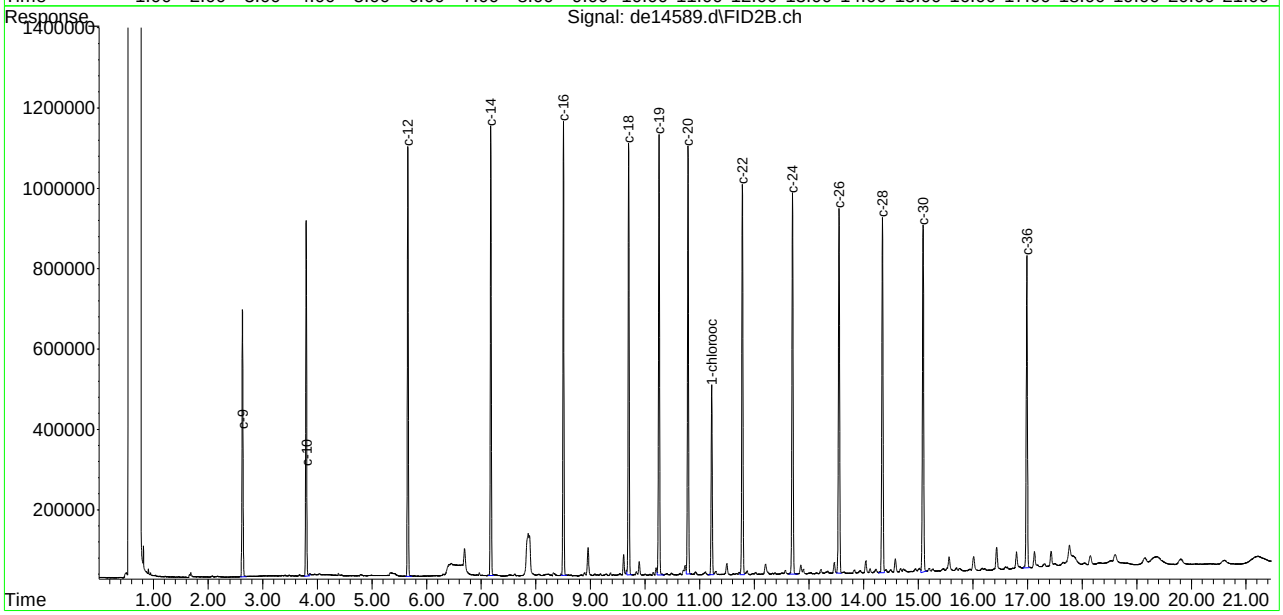
Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160615EPH\
Data File : de14589.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 3:33 pm
Operator : thomasa
Sample : op47843-bs (Sig #1); op47853-bs (Sig #2)
Misc : op47843,gde811,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

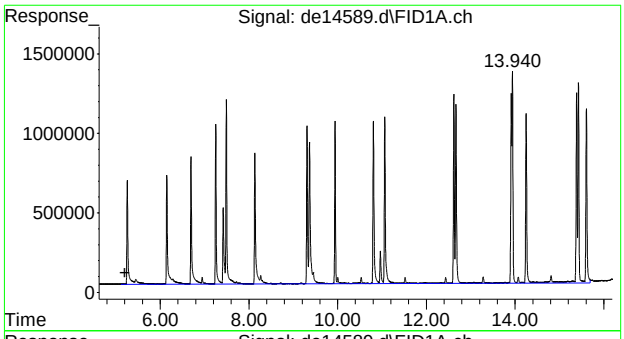
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 11:01:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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



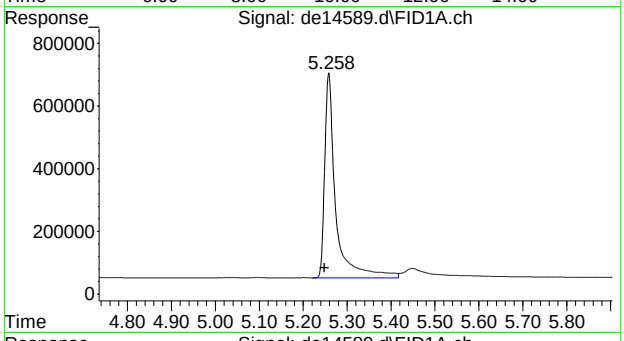


SGS ACCUTEST MC46340



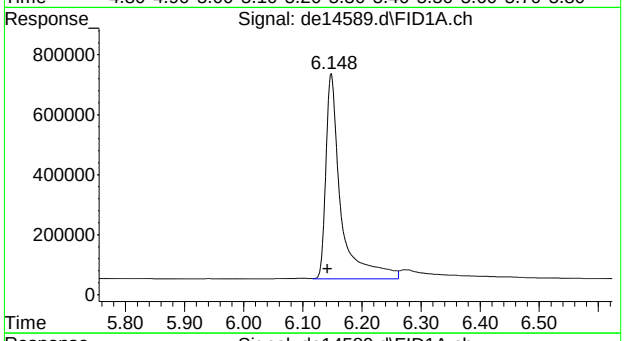
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 31217334
Conc: 317.88 µg/ml m



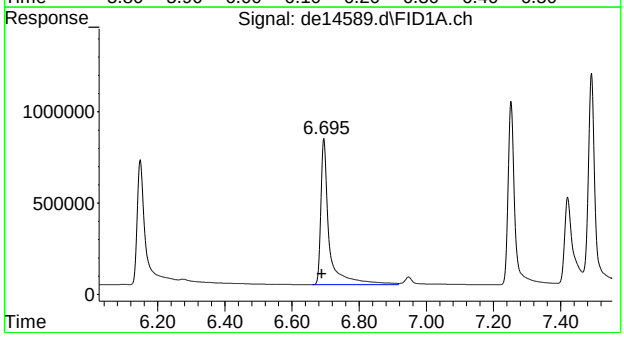
#2 naphthalene

R.T.: 5.258 min
Delta R.T.: 0.010 min
Response: 1135592
Conc: 11.01 µg/ml



#3 2-methylnaphthalene

R.T.: 6.148 min
Delta R.T.: 0.007 min
Response: 1206628
Conc: 11.77 µg/ml



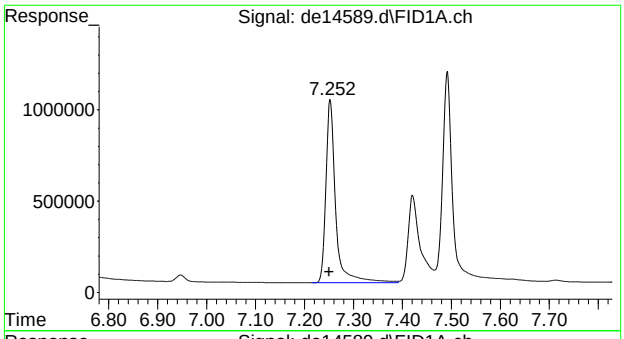
#4 2-fluorobiphenyl

R.T.: 6.695 min
Delta R.T.: 0.007 min
Response: 1381137
Conc: 14.97 µg/ml

9.3.1

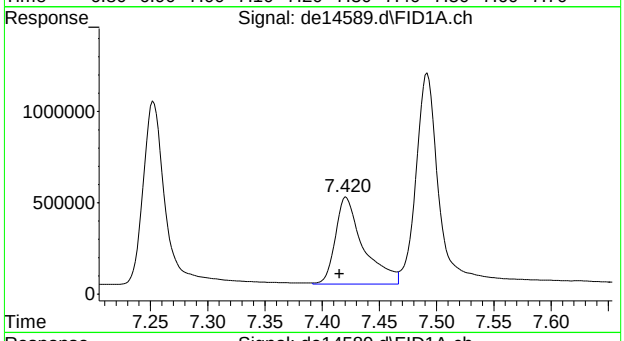
9

SGS ACCUTEST MC46340



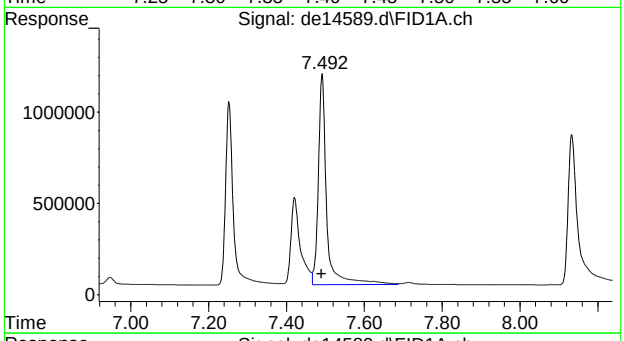
#5 acenaphthylene

R.T.: 7.252 min
Delta R.T.: 0.002 min
Response: 1391094
Conc: 13.83 µg/ml



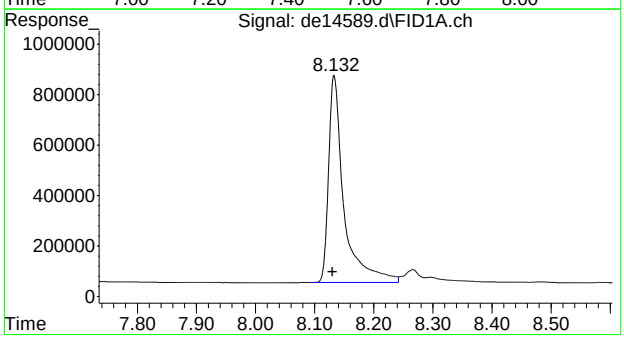
#6 2-bromonaphthalene

R.T.: 7.420 min
Delta R.T.: 0.005 min
Response: 816101
Conc: 13.00 µg/ml



#7 acenaphthene

R.T.: 7.492 min
Delta R.T.: 0.002 min
Response: 1715701
Conc: 16.60 µg/ml



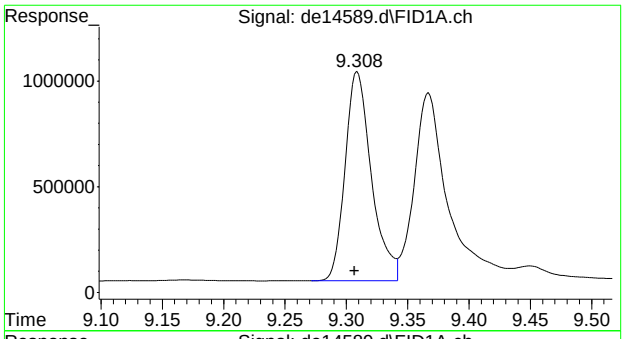
#8 fluorene

R.T.: 8.132 min
Delta R.T.: 0.002 min
Response: 1475915
Conc: 14.53 µg/ml

9.3.1

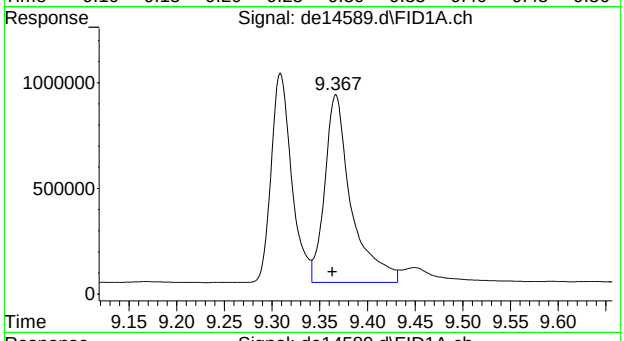
9

SGS ACCUTEST MC46340



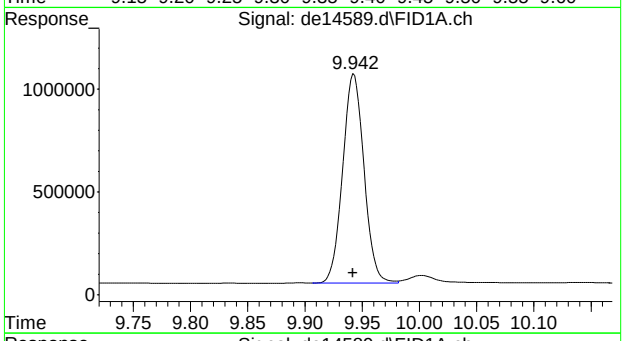
#9 phenanthrene

R.T.: 9.308 min
Delta R.T.: 0.002 min
Response: 1483983
Conc: 14.58 µg/ml



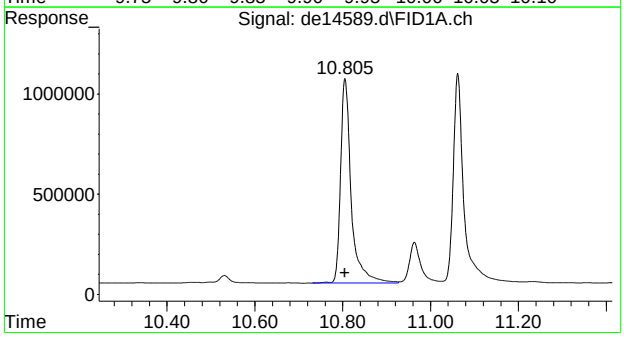
#10 anthracene

R.T.: 9.367 min
Delta R.T.: 0.003 min
Response: 1705444
Conc: 17.58 µg/ml



#11 o-terphenyl

R.T.: 9.942 min
Delta R.T.: 0.000 min
Response: 1321738
Conc: 12.90 µg/ml



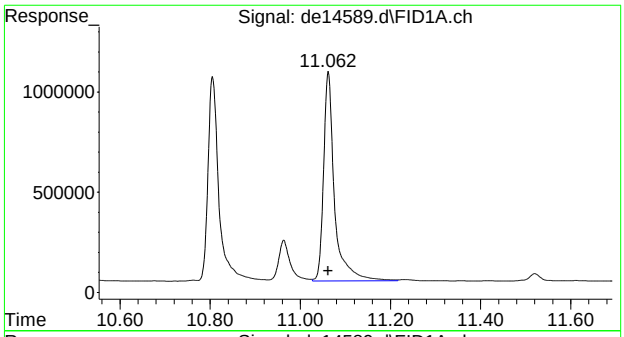
#12 fluoranthene

R.T.: 10.805 min
Delta R.T.: 0.000 min
Response: 1725464
Conc: 17.26 µg/ml

9.3.1

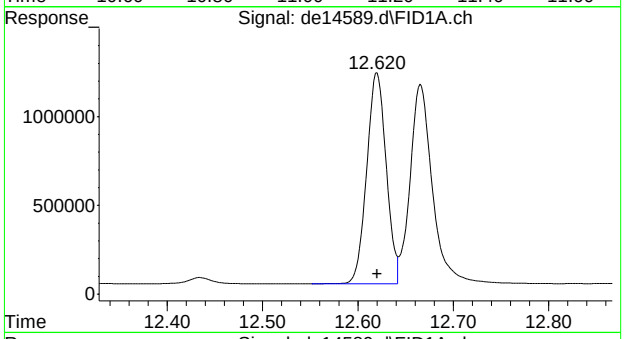
9

SGS ACCUTEST MC46340



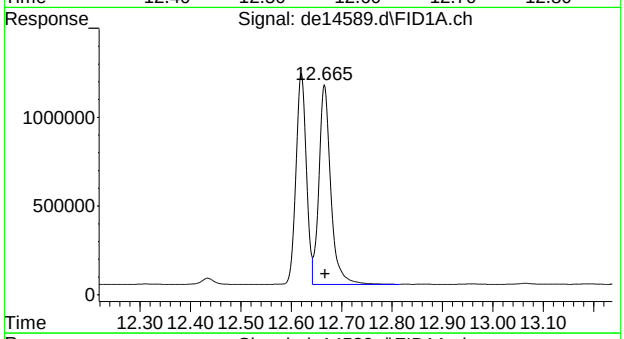
#13 pyrene

R.T.: 11.062 min
Delta R.T.: 0.000 min
Response: 1757508
Conc: 17.32 µg/ml



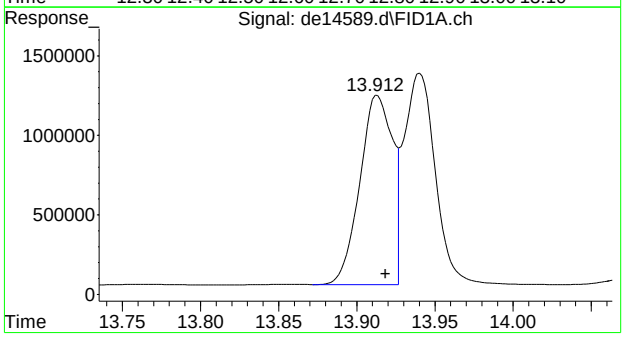
#14 benzo(a)anthracene

R.T.: 12.620 min
Delta R.T.: 0.000 min
Response: 1698181
Conc: 17.57 µg/ml



#15 chrysene

R.T.: 12.665 min
Delta R.T.: -0.002 min
Response: 1831275
Conc: 18.81 µg/ml



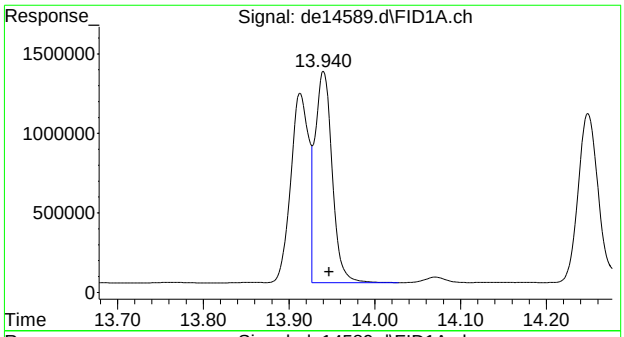
#16 benzo(B)fluoranthene

R.T.: 13.912 min
Delta R.T.: -0.007 min
Response: 1792954
Conc: 18.11 µg/ml

9.3.1

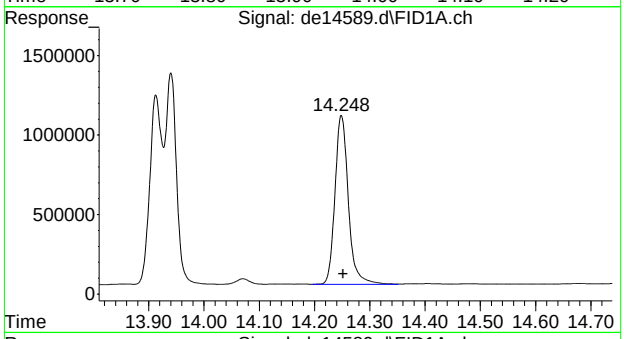
9

SGS ACCUTEST MC46340



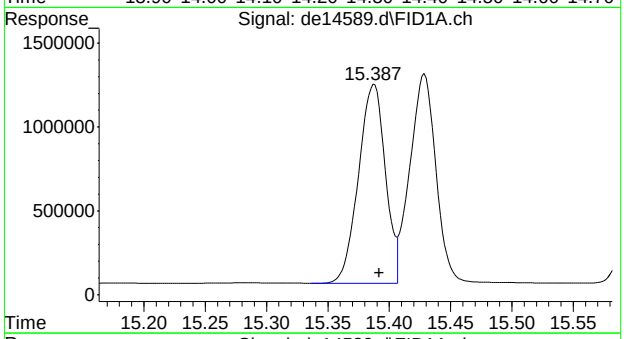
#17 benzo(k)fluoranthene

R.T.: 13.940 min
Delta R.T.: -0.007 min
Response: 1800617
Conc: 19.05 µg/ml



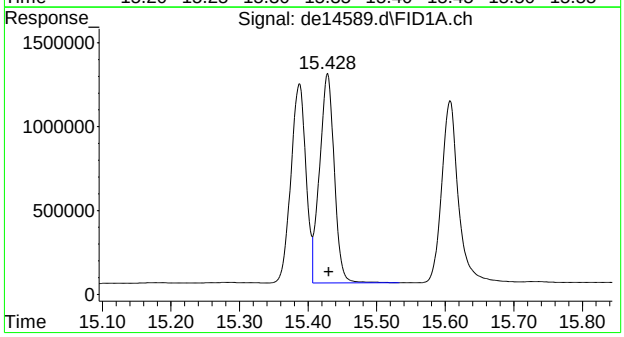
#18 benzo(a)pyrene

R.T.: 14.248 min
Delta R.T.: -0.003 min
Response: 1781057
Conc: 19.27 µg/ml



#19 indeno(1,2,3-cd)pyrene

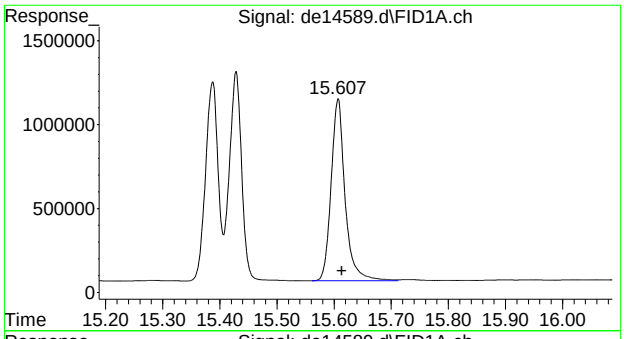
R.T.: 15.387 min
Delta R.T.: -0.005 min
Response: 1825064
Conc: 19.28 µg/ml



#20 dibenzo(ah)anthracene

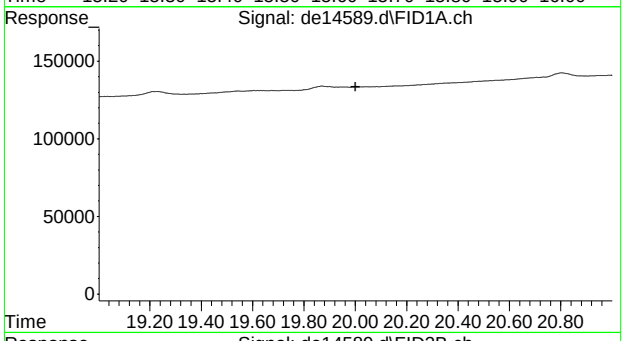
R.T.: 15.428 min
Delta R.T.: -0.002 min
Response: 1834825
Conc: 20.07 µg/ml

SGS ACCUTEST MC46340



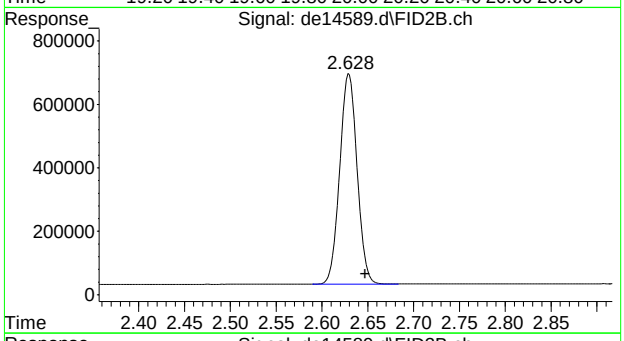
#21 benzo(ghi)perylene

R.T.: 15.607 min
Delta R.T.: -0.007 min
Response: 1833866
Conc: 19.91 µg/ml



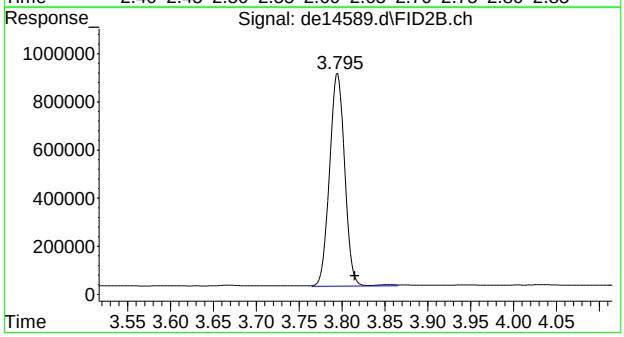
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

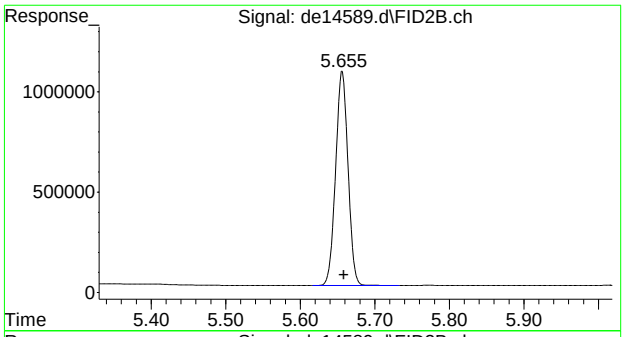
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 875563
Conc: 11.85 µg/ml m



#26 c-10

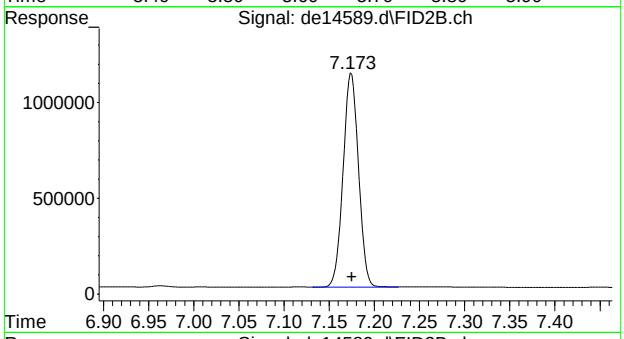
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1089756
Conc: 14.75 µg/ml

SGS ACCUTEST MC46340



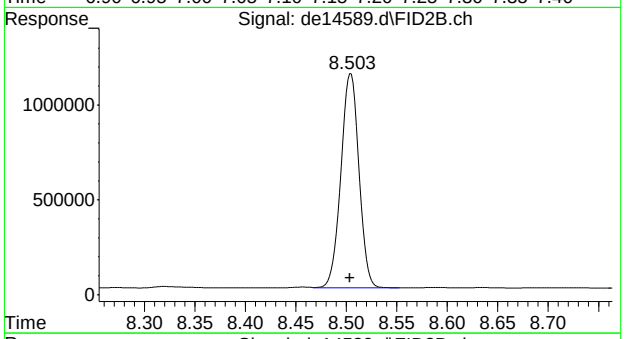
#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.003 min
Response: 1233568
Conc: 16.70 µg/ml



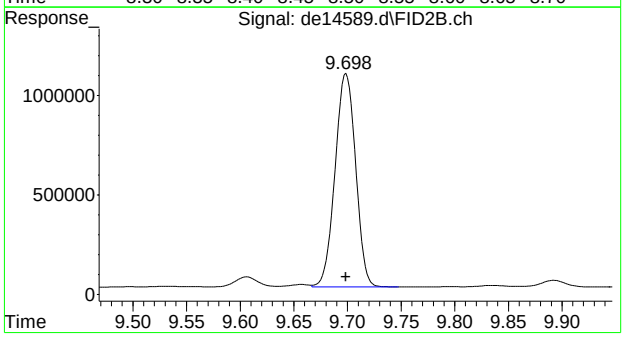
#30 c-14

R.T.: 7.173 min
Delta R.T.: -0.002 min
Response: 1328270
Conc: 17.98 µg/ml



#31 c-16

R.T.: 8.503 min
Delta R.T.: 0.000 min
Response: 1404145
Conc: 19.01 µg/ml



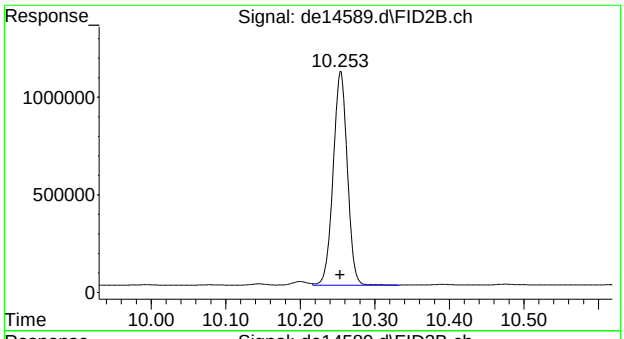
#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 1431548
Conc: 19.38 µg/ml

9.3.1

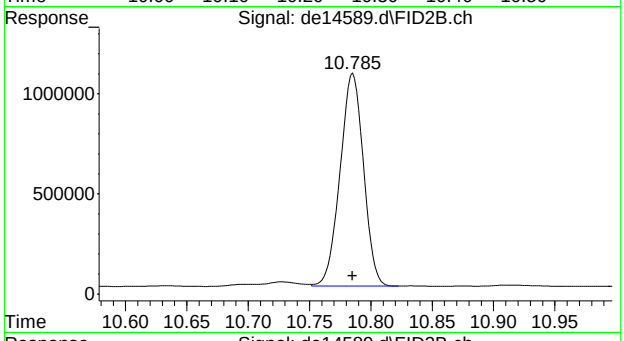
9

SGS ACCUTEST MC46340



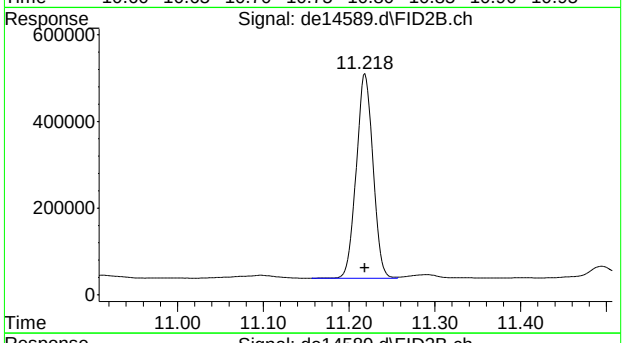
#33 c-19

R.T.: 10.253 min
Delta R.T.: 0.000 min
Response: 1442102
Conc: 21.59 µg/ml



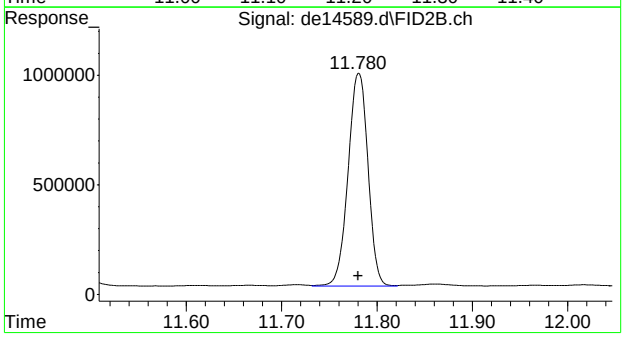
#34 c-20

R.T.: 10.785 min
Delta R.T.: 0.000 min
Response: 1408743
Conc: 21.09 µg/ml



#35 1-chlorooctadecane

R.T.: 11.218 min
Delta R.T.: 0.000 min
Response: 639179
Conc: 11.30 µg/ml



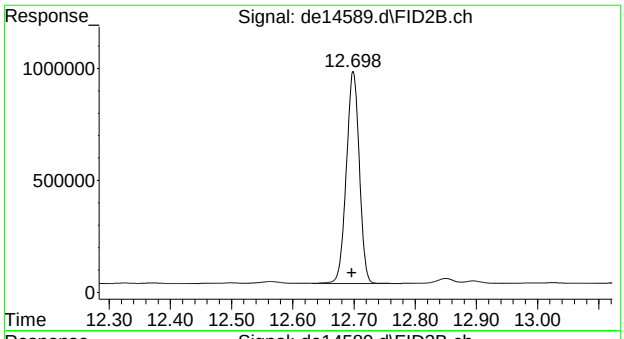
#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 1406123
Conc: 21.05 µg/ml

9.3.1

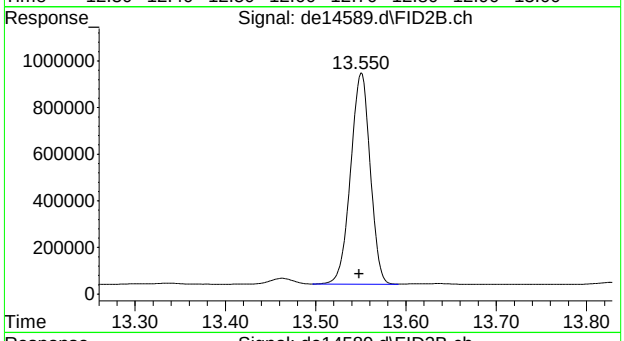
9

SGS ACCUTEST MC46340



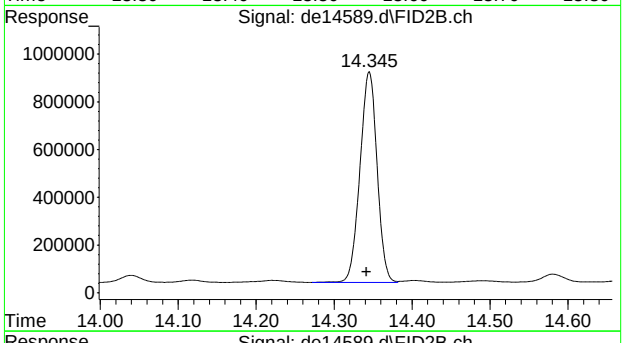
#37 c-24

R.T.: 12.698 min
Delta R.T.: 0.002 min
Response: 1395929
Conc: 20.90 µg/ml



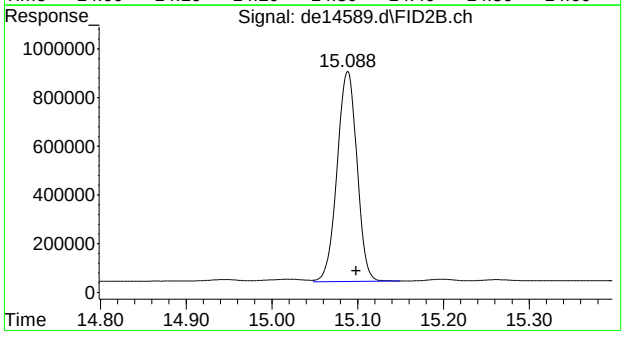
#38 c-26

R.T.: 13.550 min
Delta R.T.: 0.002 min
Response: 1366022
Conc: 20.45 µg/ml



#39 c-28

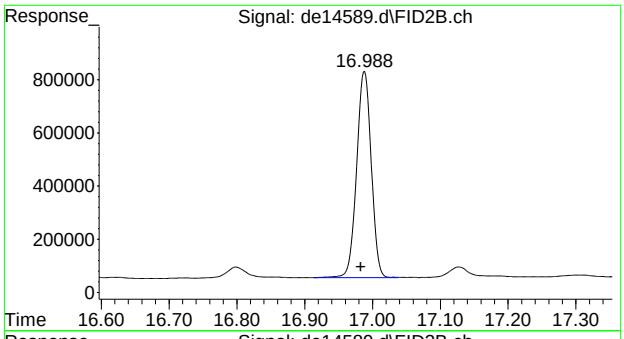
R.T.: 14.345 min
Delta R.T.: 0.003 min
Response: 1343066
Conc: 20.10 µg/ml



#40 c-30

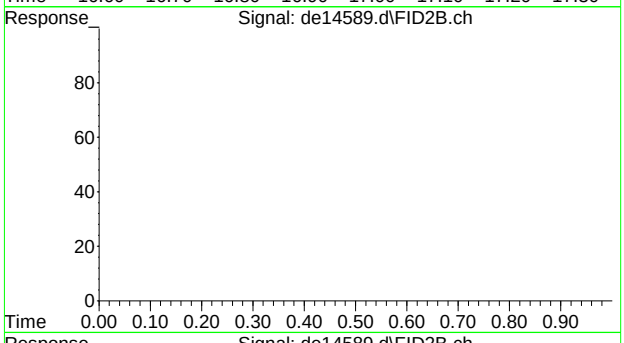
R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1387359
Conc: 20.77 µg/ml

SGS ACCUTEST MC46340



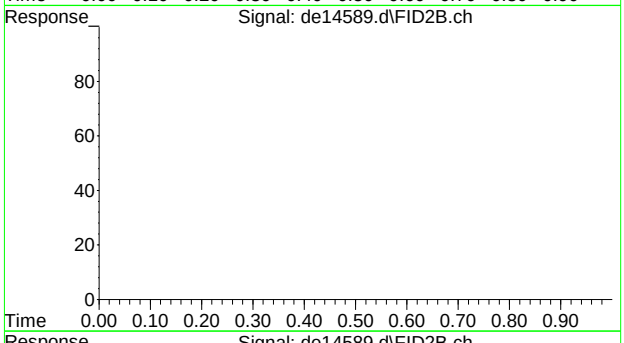
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1161711
Conc: 17.39 µg/ml m



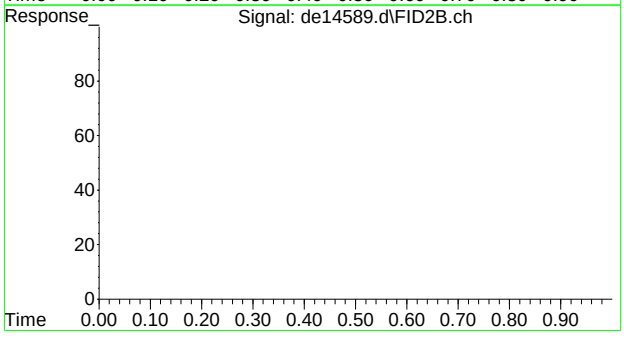
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

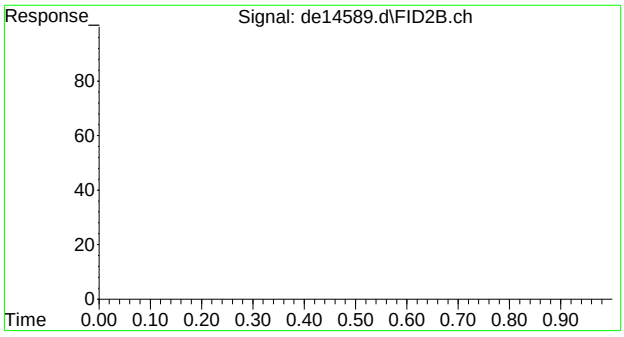
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46340



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.3.1

9

SGS ACCUTEST MC46340

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/16/16 11:00

Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47843-bsd (Sig #1); op47853-bsd (Sig #2)
Misc : op47843,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:43:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.690	1485265	16.104 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	80.52%#
6) s 2-bromonaphthalene	7.417	871290	13.884 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	69.42%#
11) s o-terphenyl	9.940	1464966	14.303 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	71.52%#
35) s 1-chlorooctadecane	11.217	723586	12.790 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	63.95%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	35637494	362.890 µg/mlm
2) naphthalene	5.253	1233926	11.964 µg/ml
3) 2-methylnaphthalene	6.143	1332982	13.007 µg/ml
5) acenaphthylene	7.248	1556797	15.475 µg/ml
7) acenaphthene	7.487	1758590	17.012 µg/ml
8) fluorene	8.130	1709229	16.829 µg/ml
9) phenanthrene	9.305	1746990	17.167 µg/ml
10) anthracene	9.363	1990268	20.517 µg/ml
12) fluoranthene	10.802	2038581	20.398 µg/ml
13) pyrene	11.058	2075522	20.456 µg/ml
14) benzo(a)anthracene	12.617	2047328	21.177 µg/ml
15) chrysene	12.663	2133874	21.922 µg/ml
16) benzo(B)fluoranthene	13.912	2118873	21.402 µg/mlm
17) benzo(k)fluoranthene	13.938	2133770	22.579 µg/mlm
18) benzo(a)pyrene	14.245	2108466	22.810 µg/ml
19) indeno(1,2,3-cd)pyrene	15.383	2154502	22.761 µg/mlm
20) dibenzo(ah)anthracene	15.425	2178916	23.840 µg/mlm
21) benzo(ghi)perylene	15.603	2170886	23.565 µg/ml
25) h c-9	2.647	813781	11.016 µg/mlm
26) h c-10	3.815	1076038	14.566 µg/mlm
28) c-12	5.657	1307080	17.694 µg/ml
30) c-14	7.173	1501793	20.330 µg/ml
31) c-16	8.503	1633058	22.107 µg/ml
32) c-18	9.697	1690616	22.886 µg/ml
33) c-19	10.252	1700430	25.453 µg/ml
34) c-20	10.783	1710940	25.610 µg/ml
36) c-22	11.778	1675441	25.079 µg/ml
37) c-24	12.697	1657948	24.817 µg/ml
38) c-26	13.548	1622949	24.293 µg/ml
39) c-28	14.340	1596033	23.890 µg/ml
40) h c-30	15.098	1605483	24.032 µg/ml
41) h c-36	16.983	1245161	18.638 µg/mlm

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

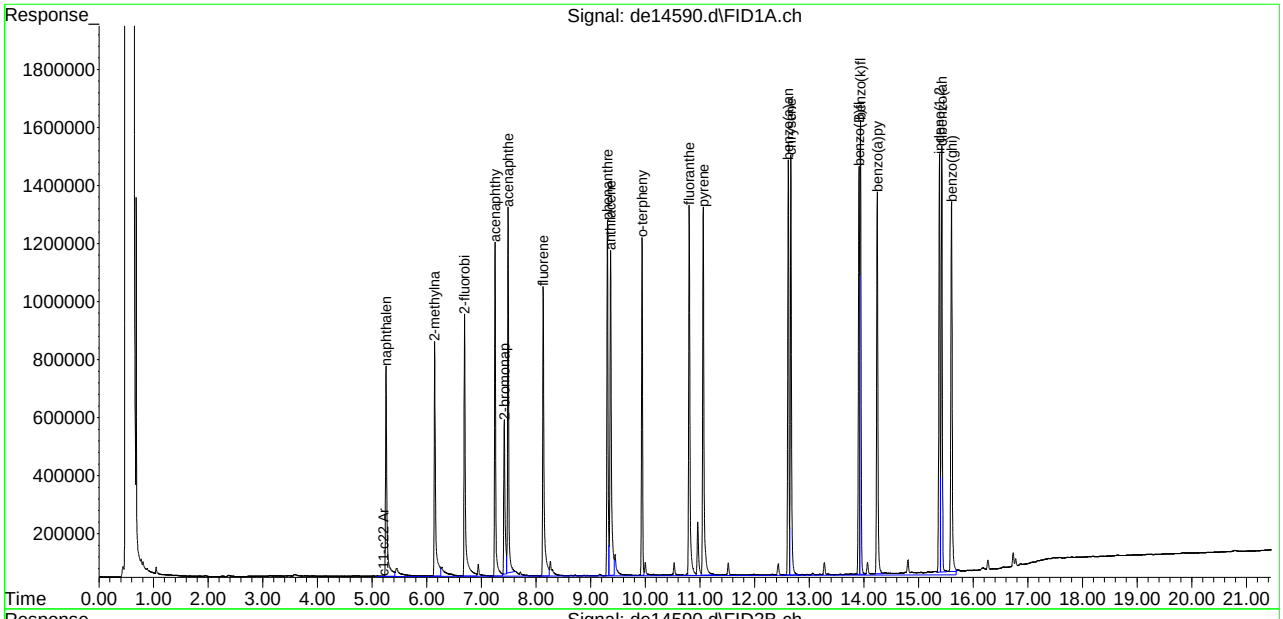
9.3.2
9

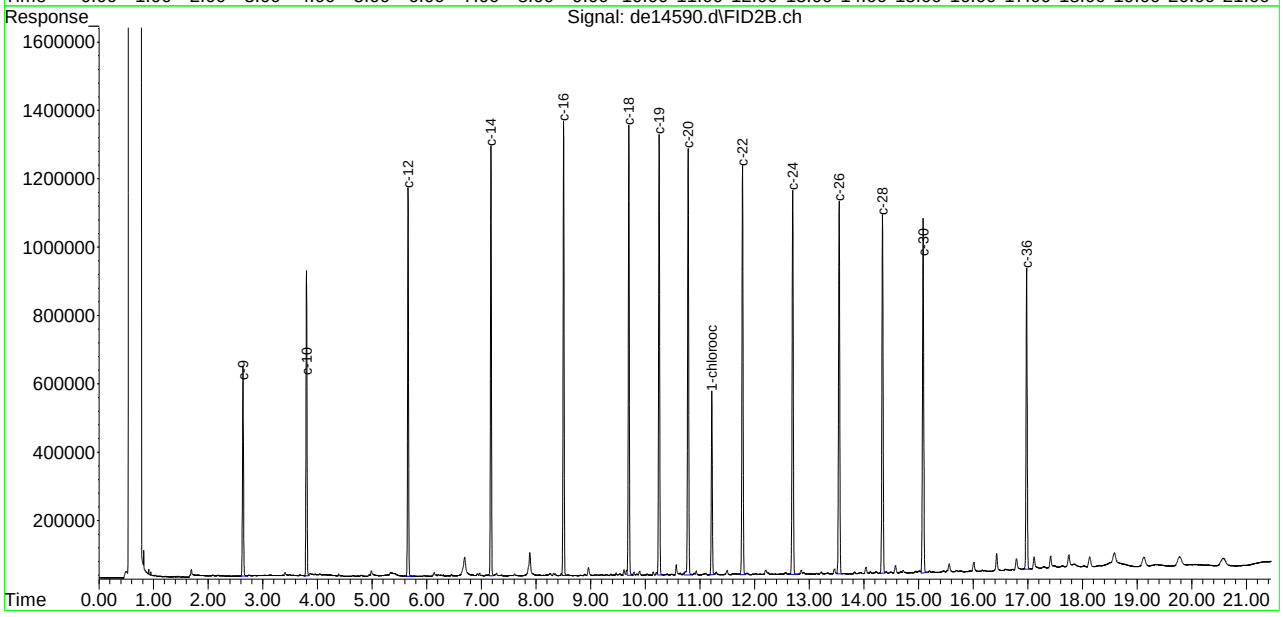
Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47843-bsd (Sig #1); op47853-bsd (Sig #2)
Misc : op47843,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

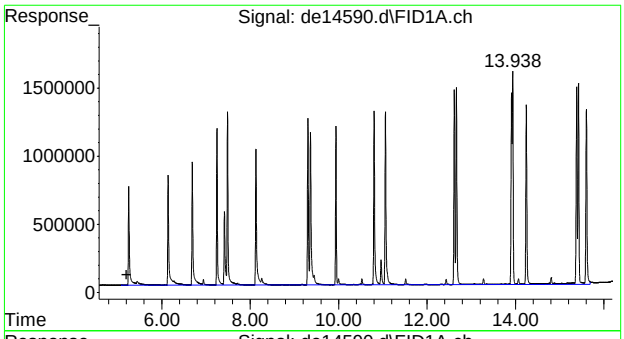
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:43:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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



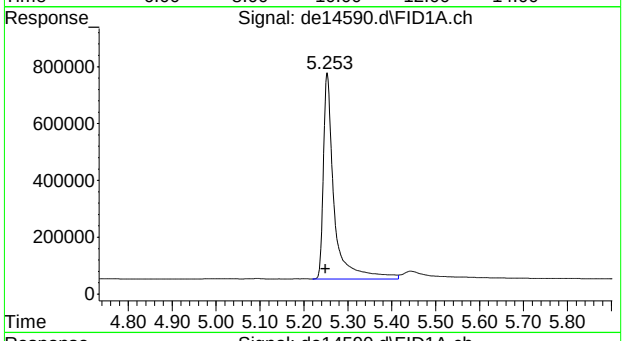


EPH160615W.M Thu Jun 16 11:01:17 2016 Page: 2



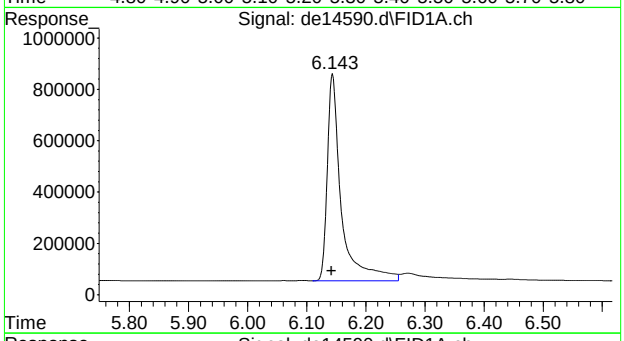
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 35637494
Conc: 362.89 µg/ml m



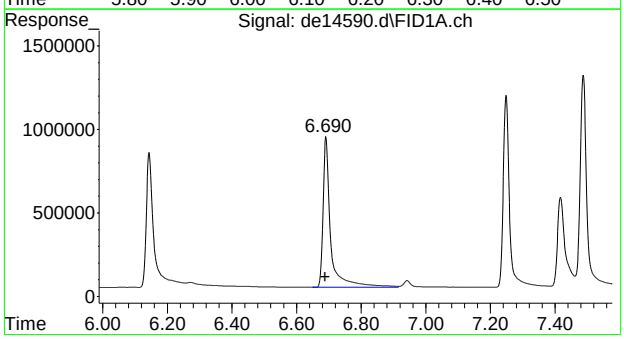
#2 naphthalene

R.T.: 5.253 min
Delta R.T.: 0.005 min
Response: 1233926
Conc: 11.96 µg/ml



#3 2-methylnaphthalene

R.T.: 6.143 min
Delta R.T.: 0.002 min
Response: 1332982
Conc: 13.01 µg/ml



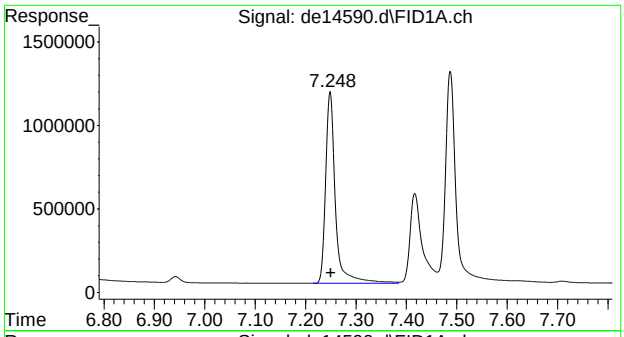
#4 2-fluorobiphenyl

R.T.: 6.690 min
Delta R.T.: 0.002 min
Response: 1485265
Conc: 16.10 µg/ml

9.3.2

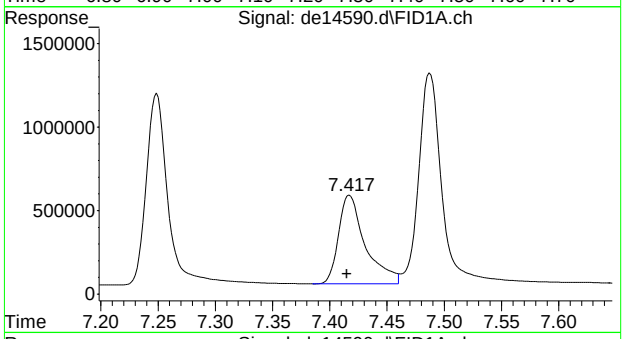
9

SGS ACCUTEST MC46340



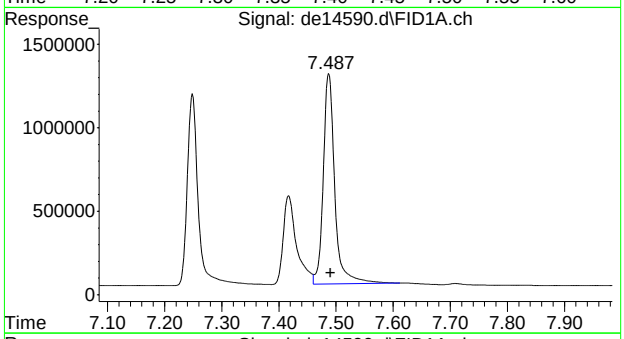
#5 acenaphthylene

R.T.: 7.248 min
Delta R.T.: -0.002 min
Response: 1556797
Conc: 15.47 µg/ml



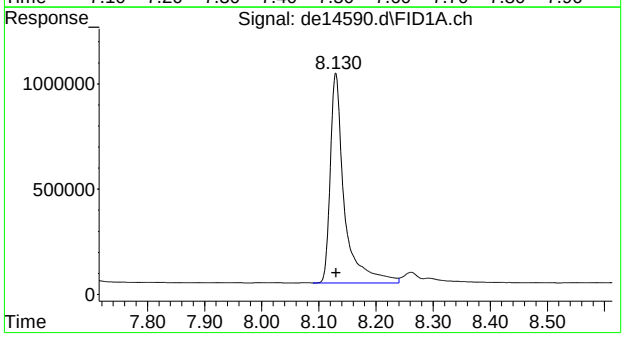
#6 2-bromonaphthalene

R.T.: 7.417 min
Delta R.T.: 0.002 min
Response: 871290
Conc: 13.88 µg/ml



#7 acenaphthene

R.T.: 7.487 min
Delta R.T.: -0.003 min
Response: 1758590
Conc: 17.01 µg/ml



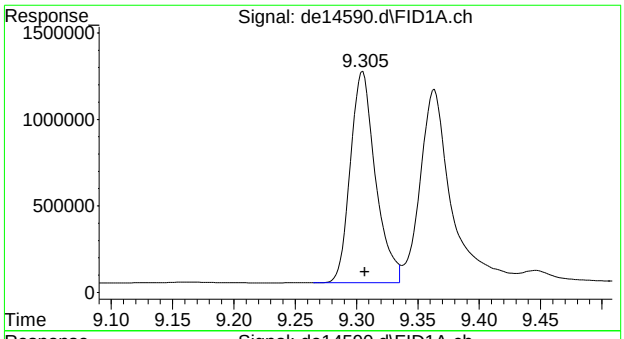
#8 fluorene

R.T.: 8.130 min
Delta R.T.: 0.000 min
Response: 1709229
Conc: 16.83 µg/ml

9.3.2

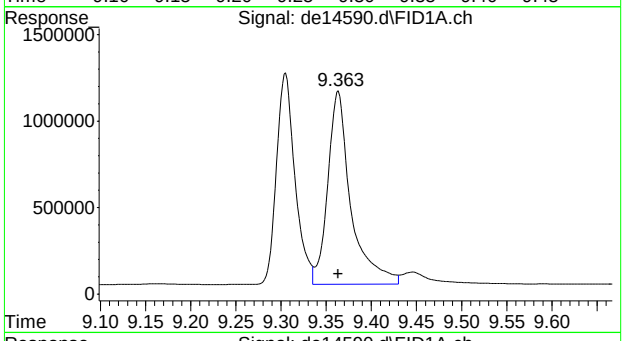
9

SGS ACCUTEST MC46340



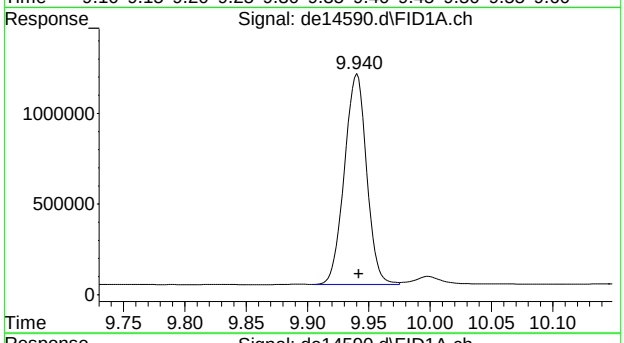
#9 phenanthrene

R.T.: 9.305 min
Delta R.T.: -0.002 min
Response: 1746990
Conc: 17.17 µg/ml



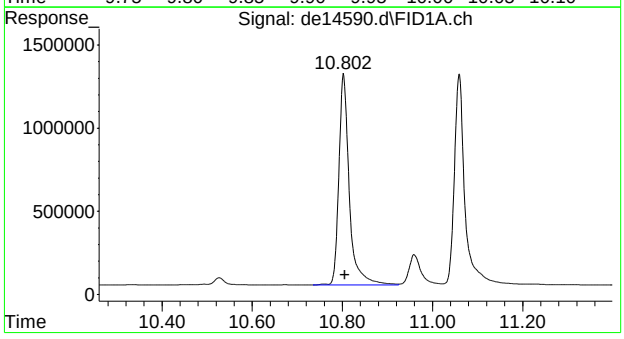
#10 anthracene

R.T.: 9.363 min
Delta R.T.: 0.000 min
Response: 1990268
Conc: 20.52 µg/ml



#11 o-terphenyl

R.T.: 9.940 min
Delta R.T.: -0.002 min
Response: 1464966
Conc: 14.30 µg/ml



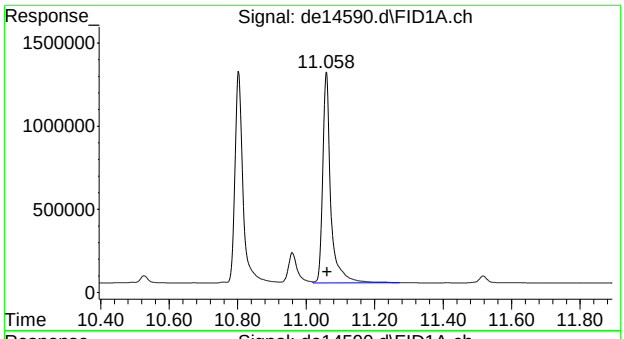
#12 fluoranthene

R.T.: 10.802 min
Delta R.T.: -0.003 min
Response: 2038581
Conc: 20.40 µg/ml

9.3.2

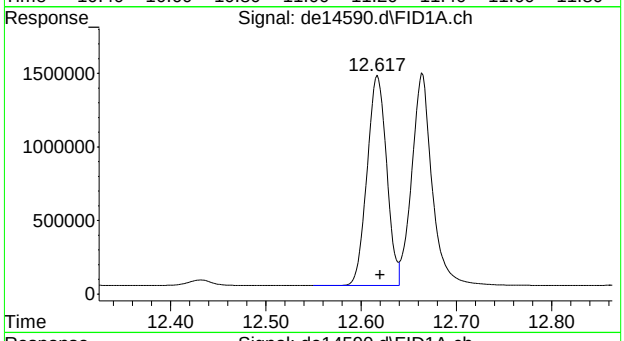
9

SGS ACCUTEST MC46340



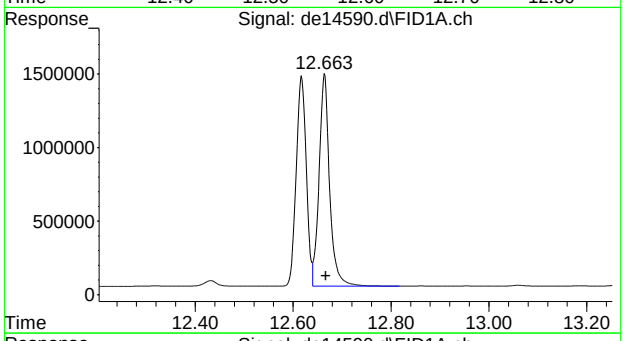
#13 pyrene

R.T.: 11.058 min
Delta R.T.: -0.003 min
Response: 2075522
Conc: 20.46 µg/ml



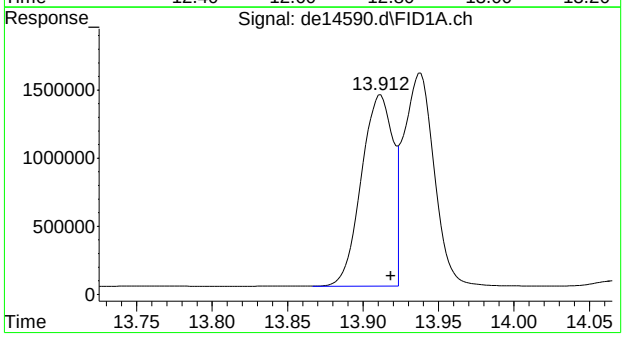
#14 benzo(a)anthracene

R.T.: 12.617 min
Delta R.T.: -0.003 min
Response: 2047328
Conc: 21.18 µg/ml



#15 chrysene

R.T.: 12.663 min
Delta R.T.: -0.003 min
Response: 2133874
Conc: 21.92 µg/ml



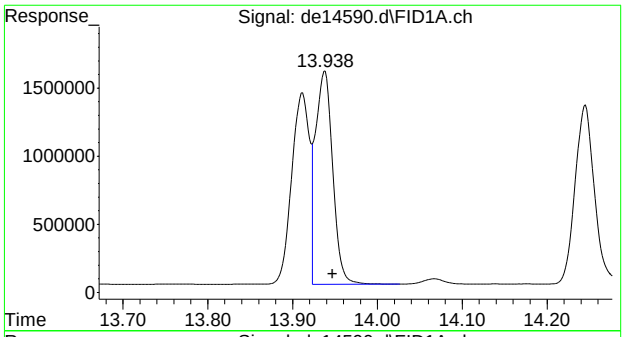
#16 benzo(B)fluoranthene

R.T.: 13.912 min
Delta R.T.: -0.007 min
Response: 2118873
Conc: 21.40 µg/ml m

9.3.2

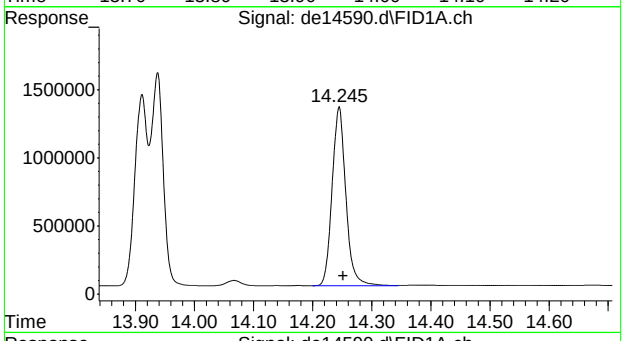
9

SGS ACCUTEST MC46340



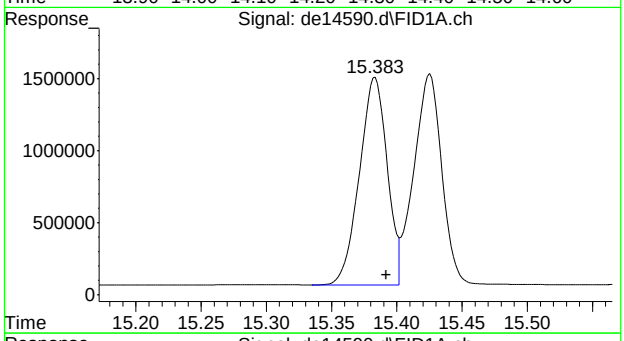
#17 benzo(k)fluoranthene

R.T.: 13.938 min
Delta R.T.: -0.008 min
Response: 2133770
Conc: 22.58 µg/ml m



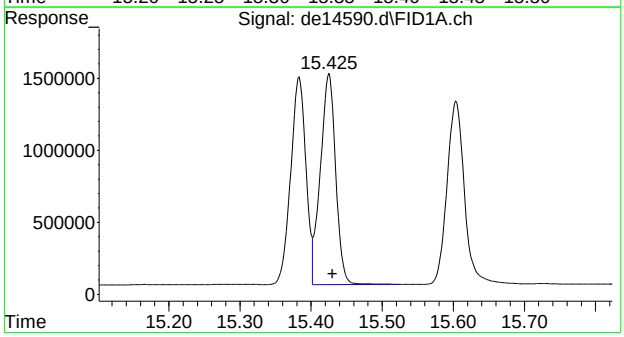
#18 benzo(a)pyrene

R.T.: 14.245 min
Delta R.T.: -0.007 min
Response: 2108466
Conc: 22.81 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.383 min
Delta R.T.: -0.008 min
Response: 2154502
Conc: 22.76 µg/ml m

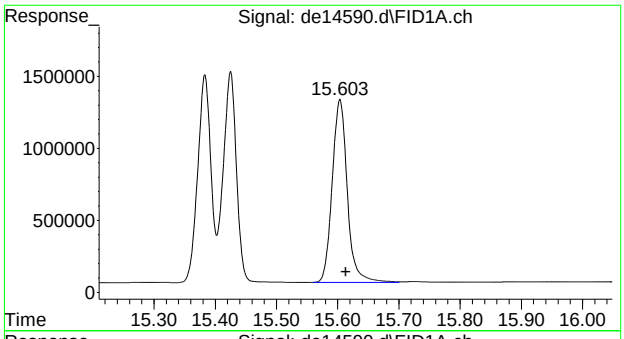


#20 dibenzo(ah)anthracene

R.T.: 15.425 min
Delta R.T.: -0.005 min
Response: 2178916
Conc: 23.84 µg/ml m

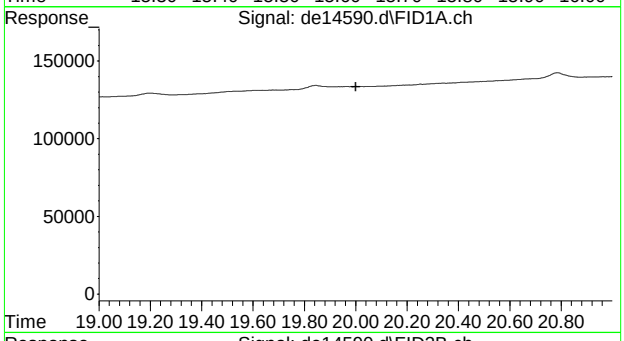
9.3.2
9

SGS ACCUTEST MC46340



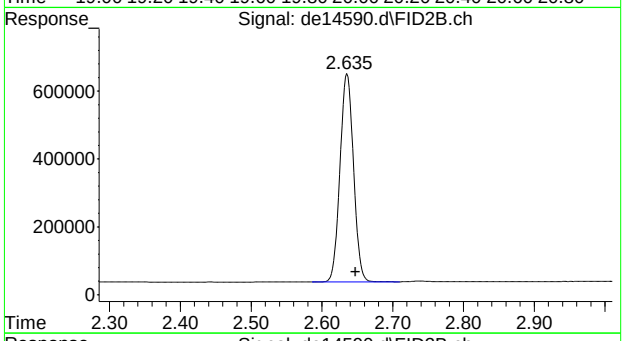
#21 benzo(ghi)perylene

R.T.: 15.603 min
Delta R.T.: -0.010 min
Response: 2170886
Conc: 23.57 µg/ml



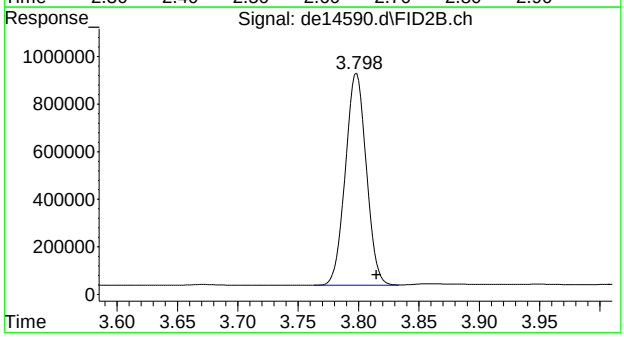
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 813781
Conc: 11.02 µg/ml m



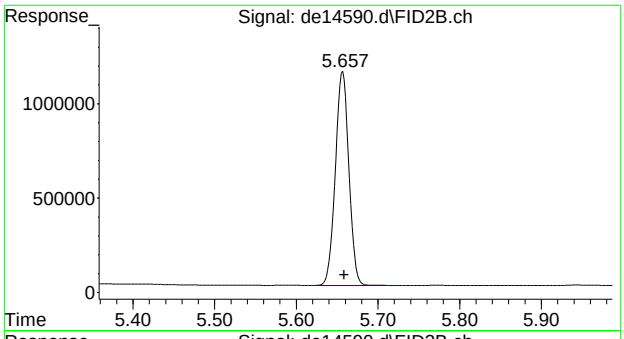
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1076038
Conc: 14.57 µg/ml m

9.3.2

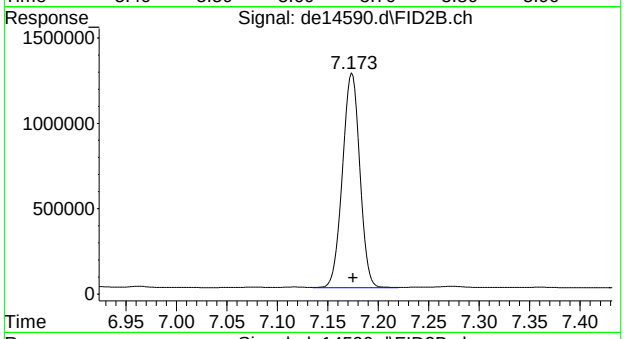
9

SGS ACCUTEST MC46340



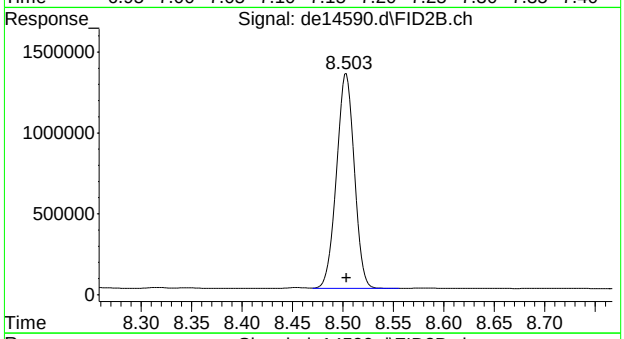
#28 c-12

R.T.: 5.657 min
Delta R.T.: -0.002 min
Response: 1307080
Conc: 17.69 µg/ml



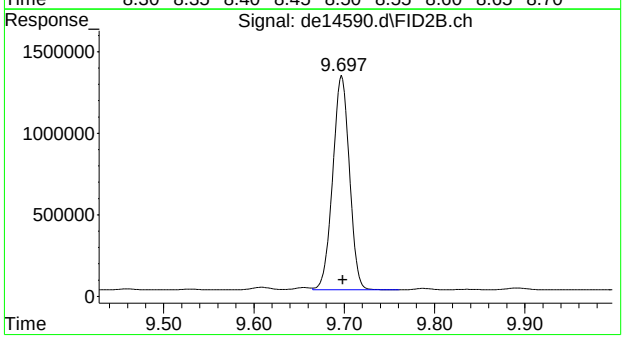
#30 c-14

R.T.: 7.173 min
Delta R.T.: -0.002 min
Response: 1501793
Conc: 20.33 µg/ml



#31 c-16

R.T.: 8.503 min
Delta R.T.: 0.000 min
Response: 1633058
Conc: 22.11 µg/ml



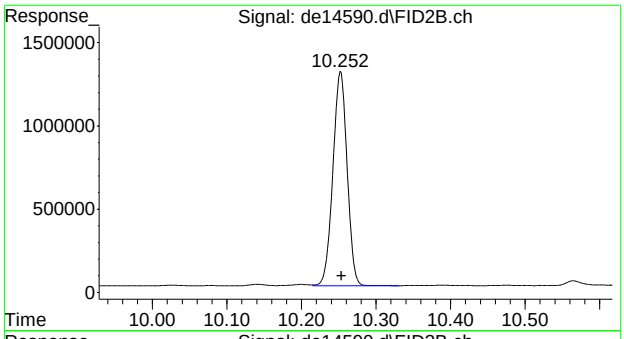
#32 c-18

R.T.: 9.697 min
Delta R.T.: -0.002 min
Response: 1690616
Conc: 22.89 µg/ml

9.3.2

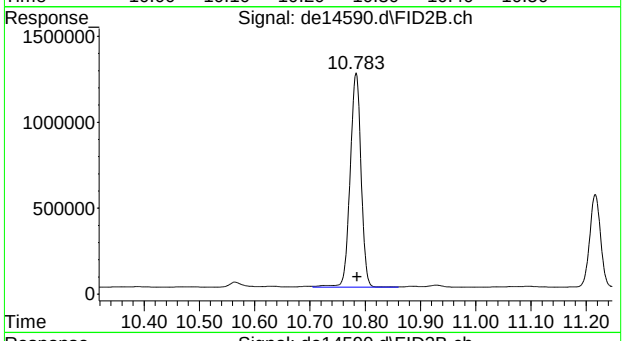
9

SGS ACCUTEST MC46340



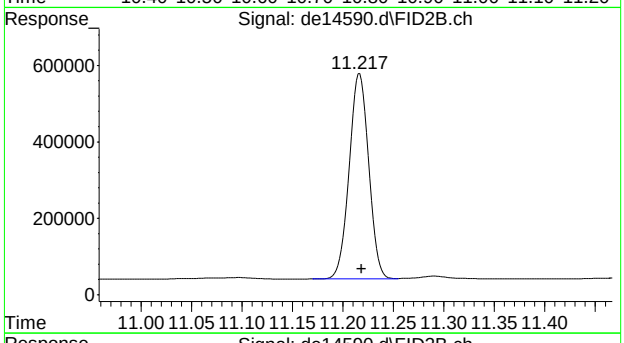
#33 c-19

R.T.: 10.252 min
Delta R.T.: -0.002 min
Response: 1700430
Conc: 25.45 µg/ml



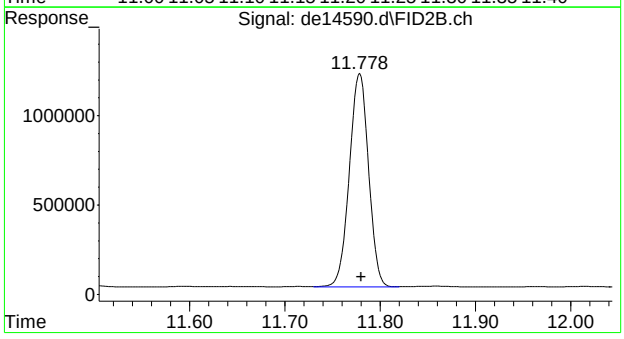
#34 c-20

R.T.: 10.783 min
Delta R.T.: -0.002 min
Response: 1710940
Conc: 25.61 µg/ml



#35 1-chlorooctadecane

R.T.: 11.217 min
Delta R.T.: -0.002 min
Response: 723586
Conc: 12.79 µg/ml



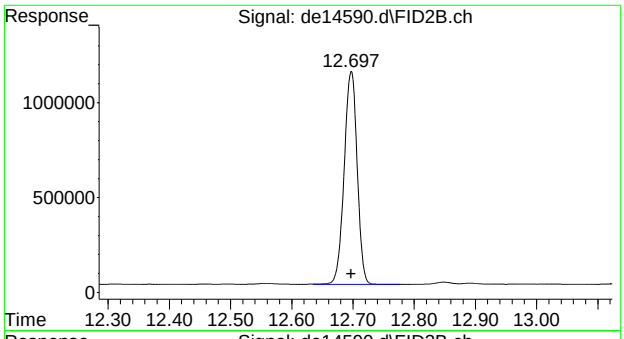
#36 c-22

R.T.: 11.778 min
Delta R.T.: -0.002 min
Response: 1675441
Conc: 25.08 µg/ml

9.3.2

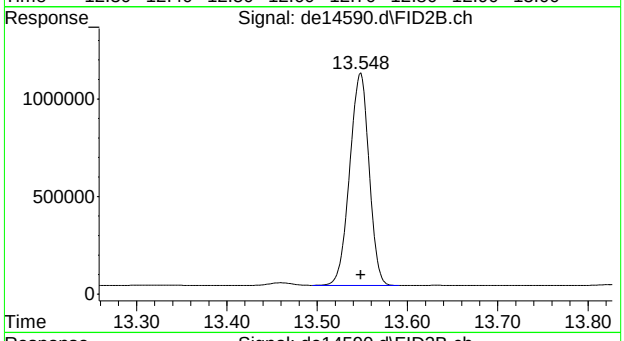
9

SGS ACCUTEST MC46340



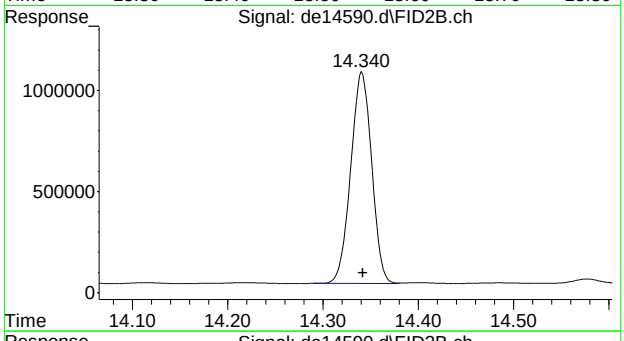
#37 c-24

R.T.: 12.697 min
Delta R.T.: 0.000 min
Response: 1657948
Conc: 24.82 µg/ml



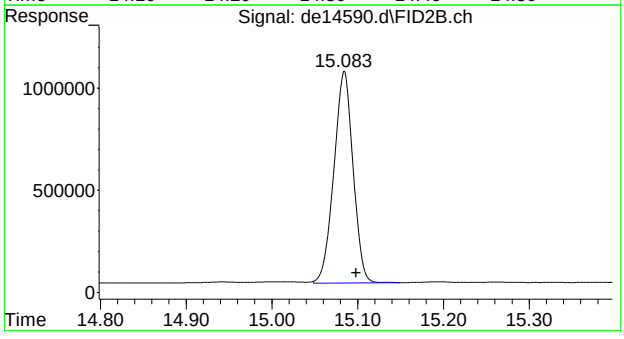
#38 c-26

R.T.: 13.548 min
Delta R.T.: 0.000 min
Response: 1622949
Conc: 24.29 µg/ml



#39 c-28

R.T.: 14.340 min
Delta R.T.: -0.002 min
Response: 1596033
Conc: 23.89 µg/ml



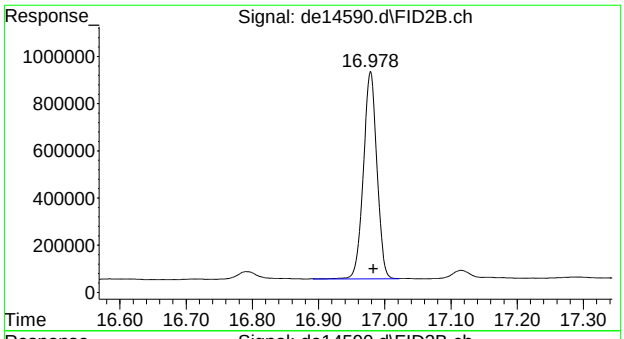
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1605483
Conc: 24.03 µg/ml

9.3.2

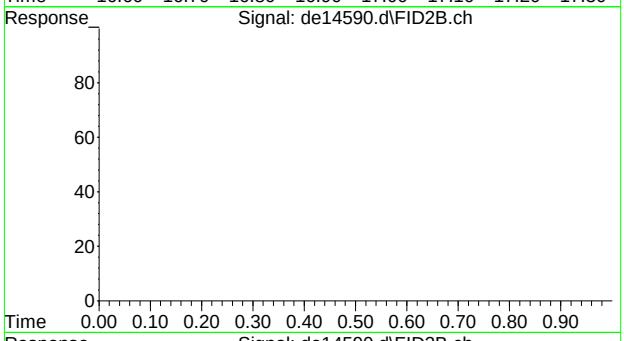
9

SGS ACCUTEST MC46340



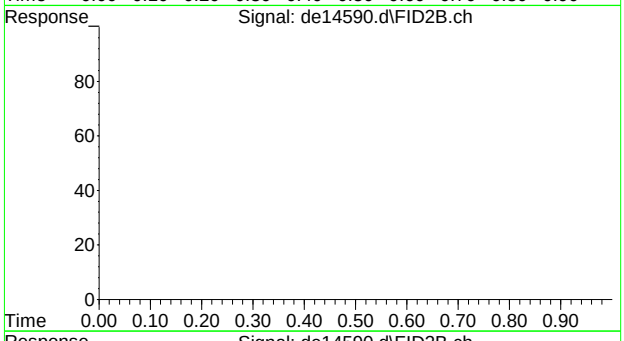
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1245161
Conc: 18.64 µg/ml m



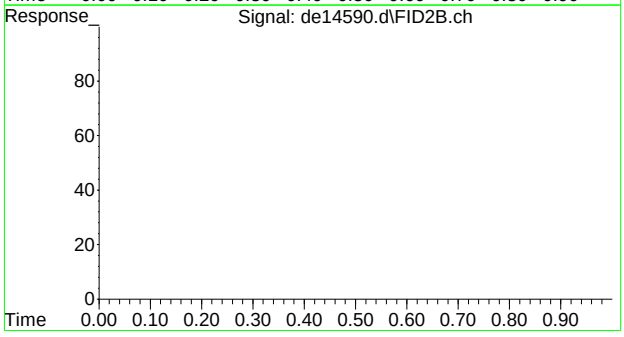
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

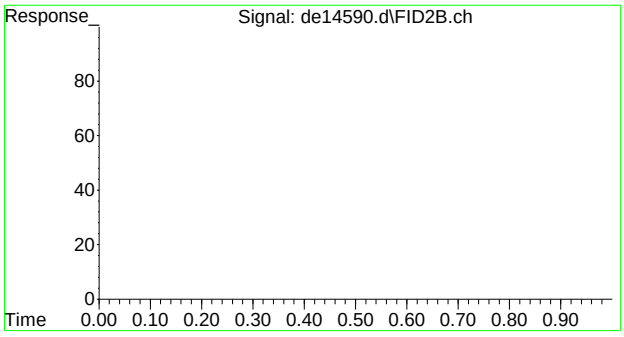
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46340



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:          0
      Conc:   N.D.
```

9.3.2

9

de14590.d EPH160615W.M Thu Jun 16 11:01:19 2016 Page 14

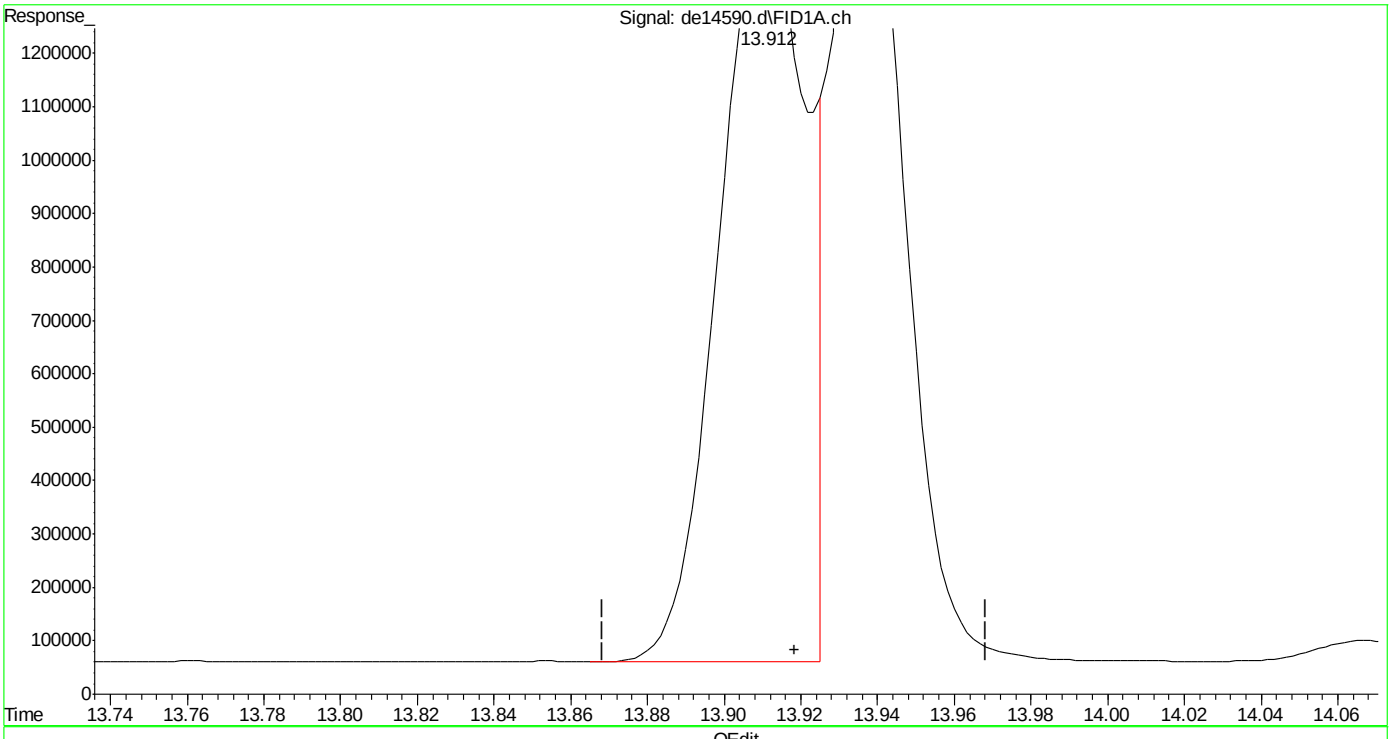
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.912min 22.459 µg/ml
response 2223496

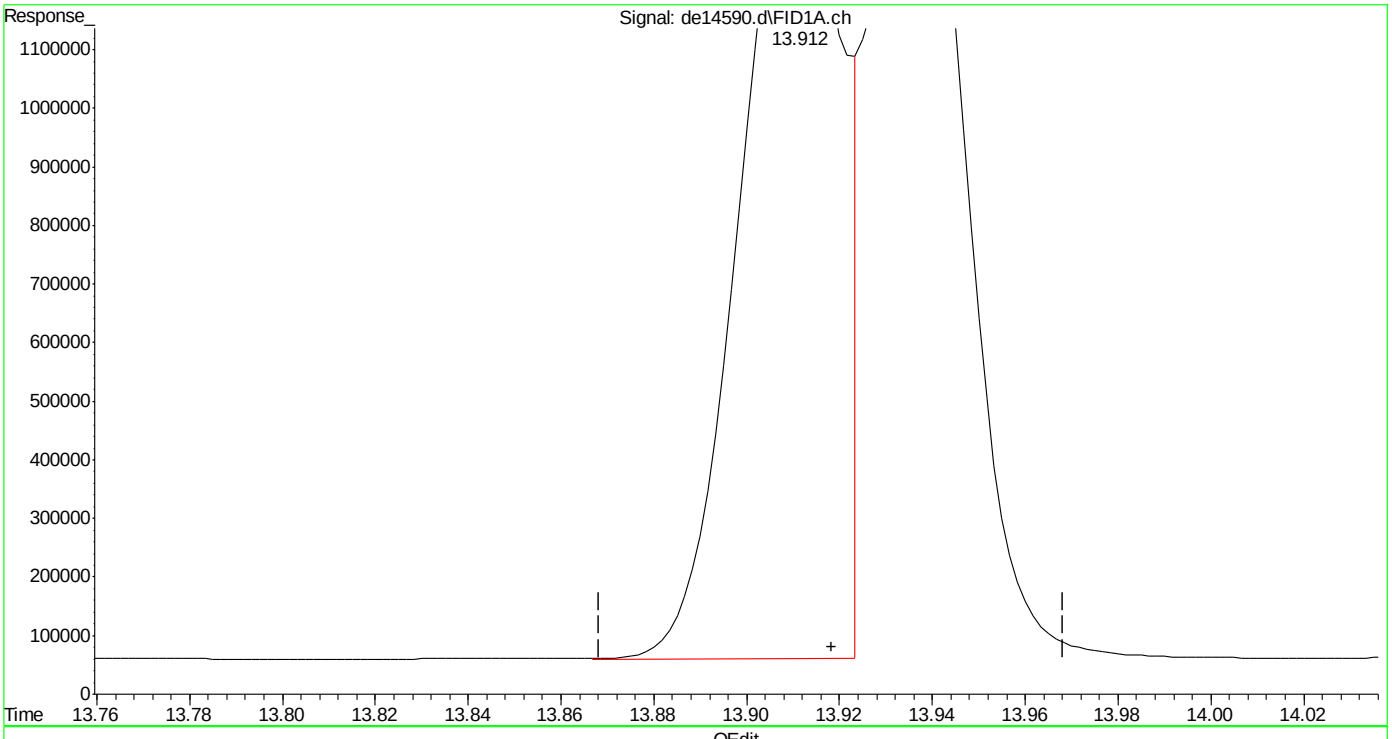
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.912min 21.402 µg/ml m
response 2118873

(+) = Expected Retention Time

EPH160615W.M Thu Jun 16 07:42:01 2016

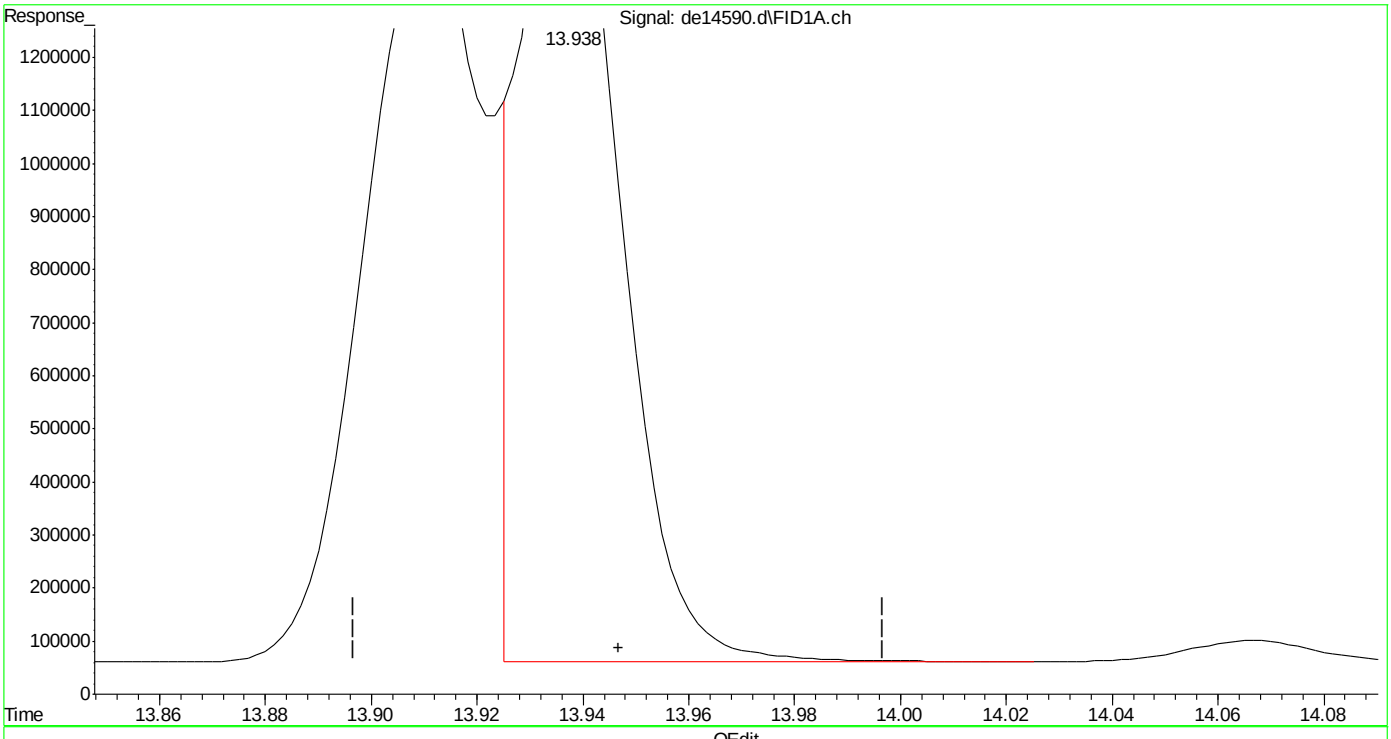
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.938min 21.419 µg/ml
response 2024106

(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:42:05 2016

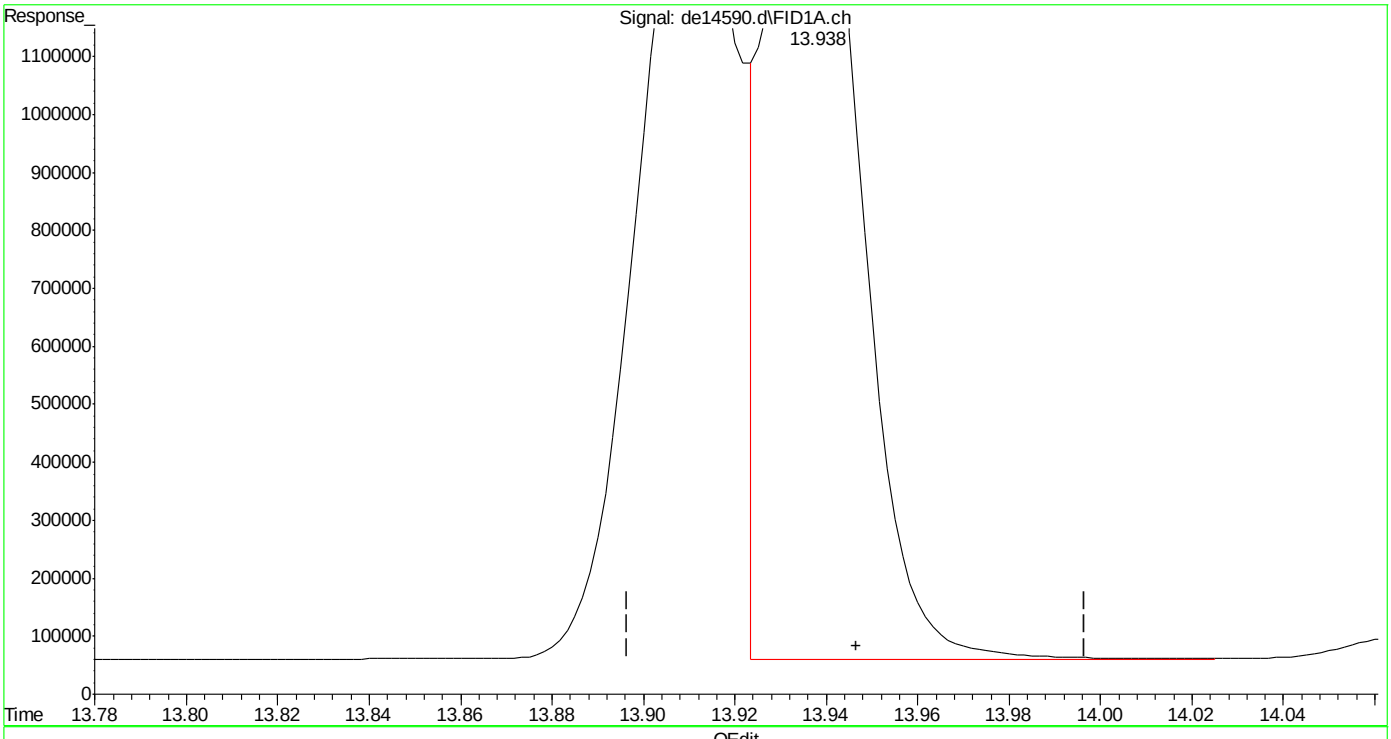
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.938min 22.579 µg/ml m
response 2133770

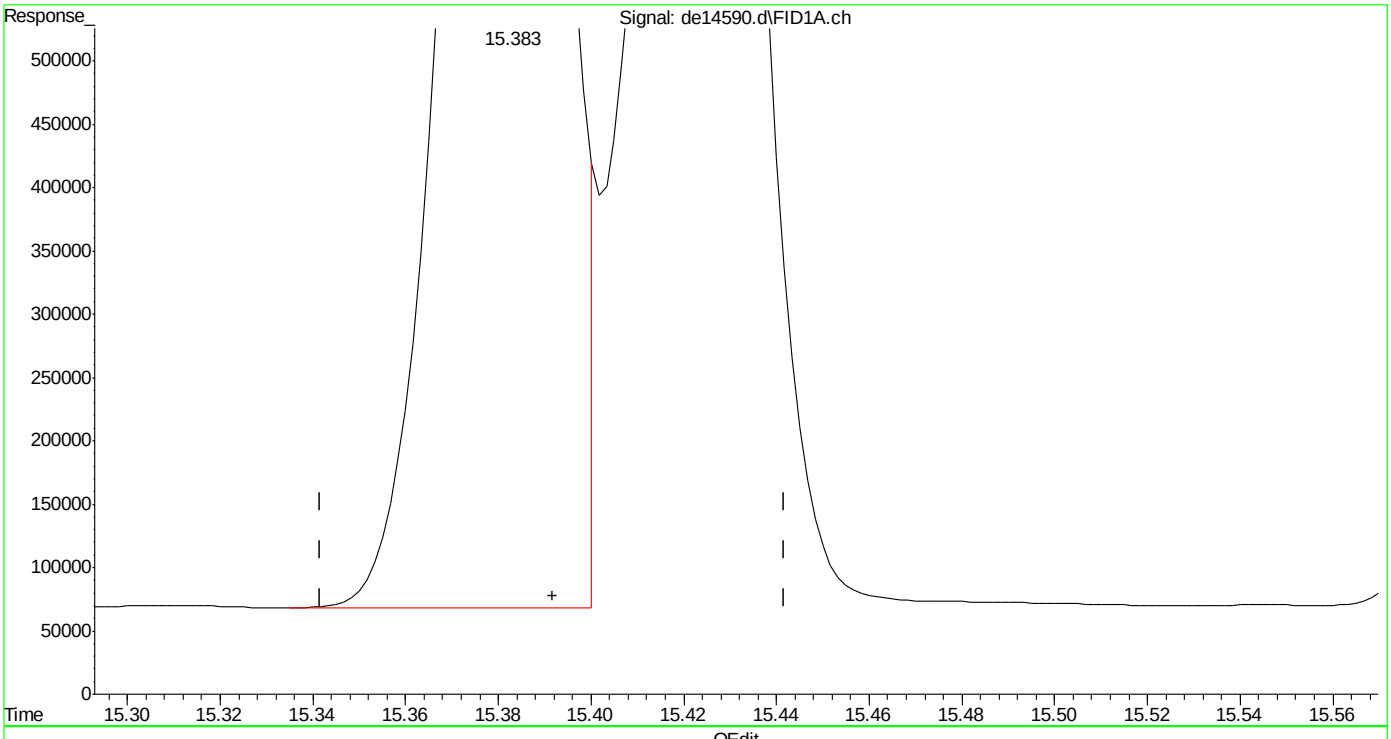
(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:42:19 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.383min 22.378 µg/ml
response 2118284

(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:42:24 2016

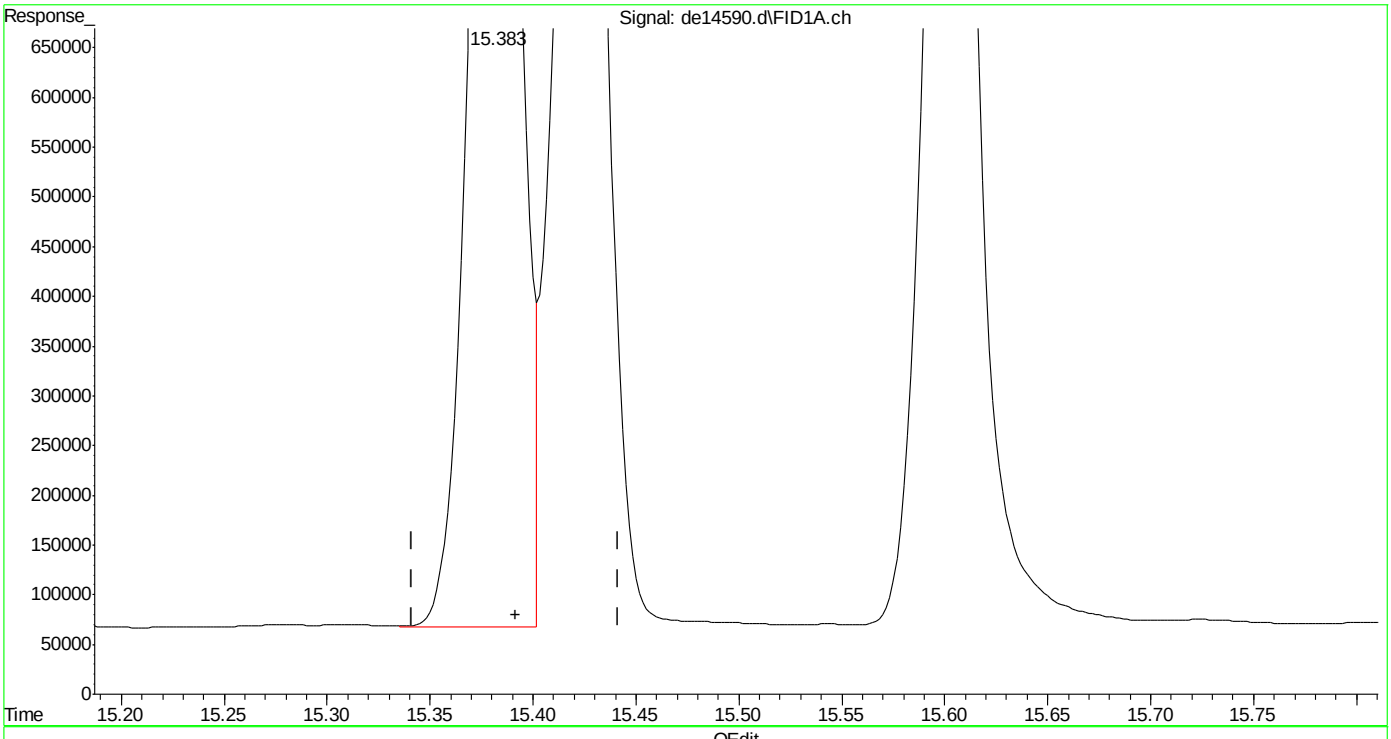
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.383min 22.761 µg/ml m
response 2154502

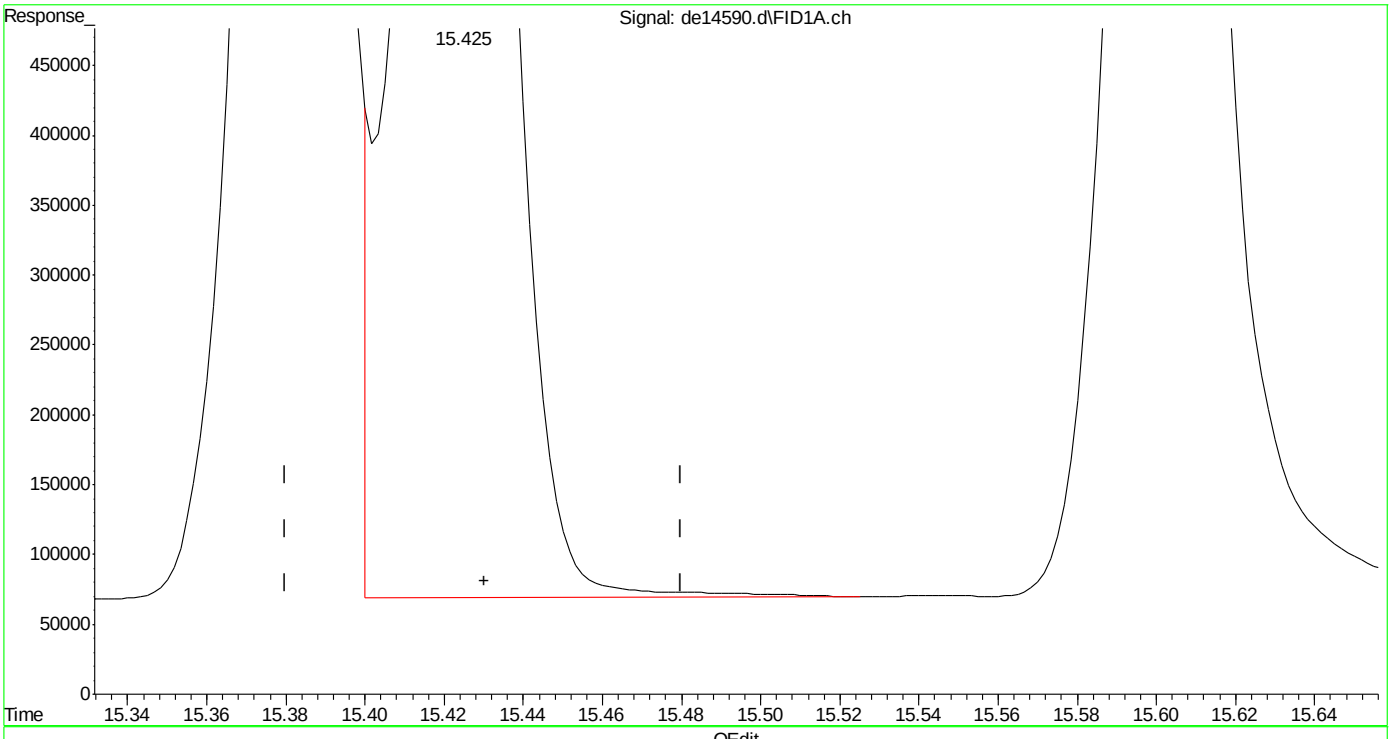
(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:42:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.425min 24.140 µg/ml
response 2206326

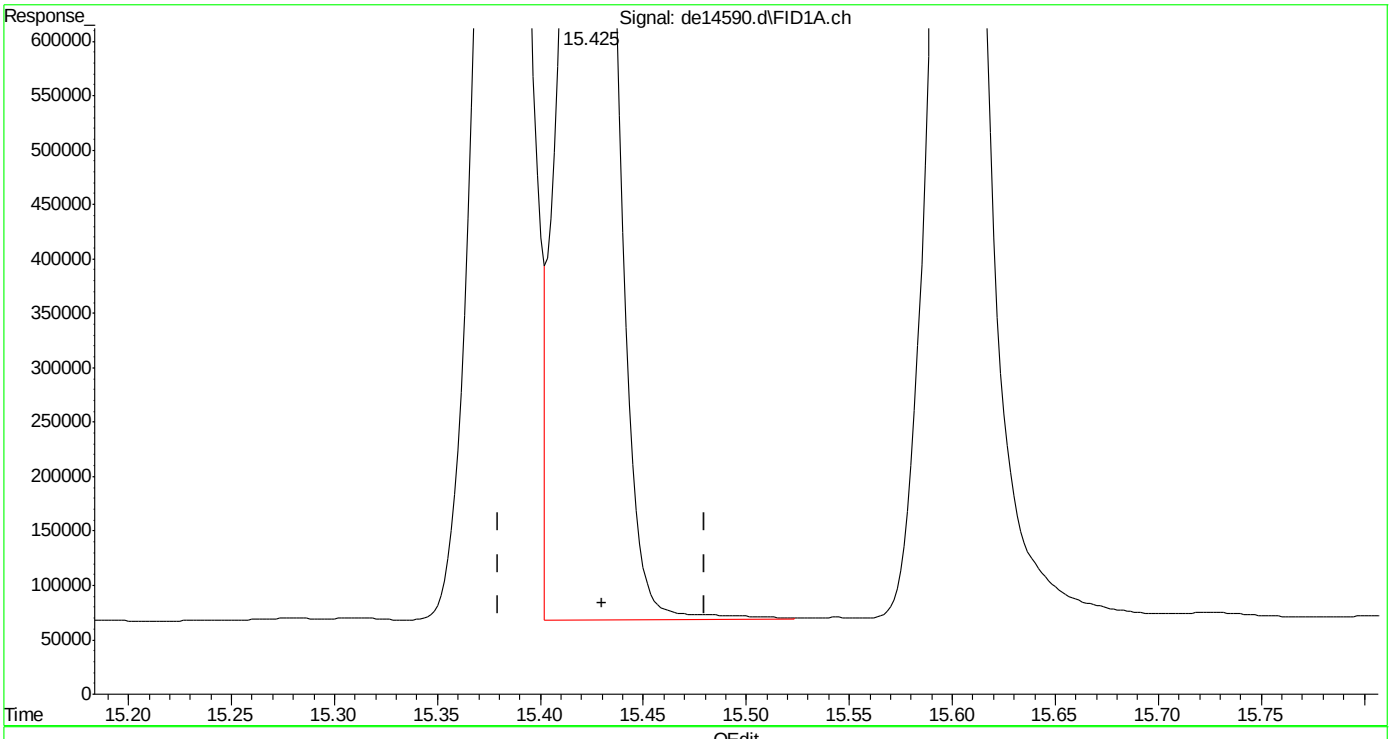
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.425min 23.840 µg/ml m
response 2178916

(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:42:47 2016

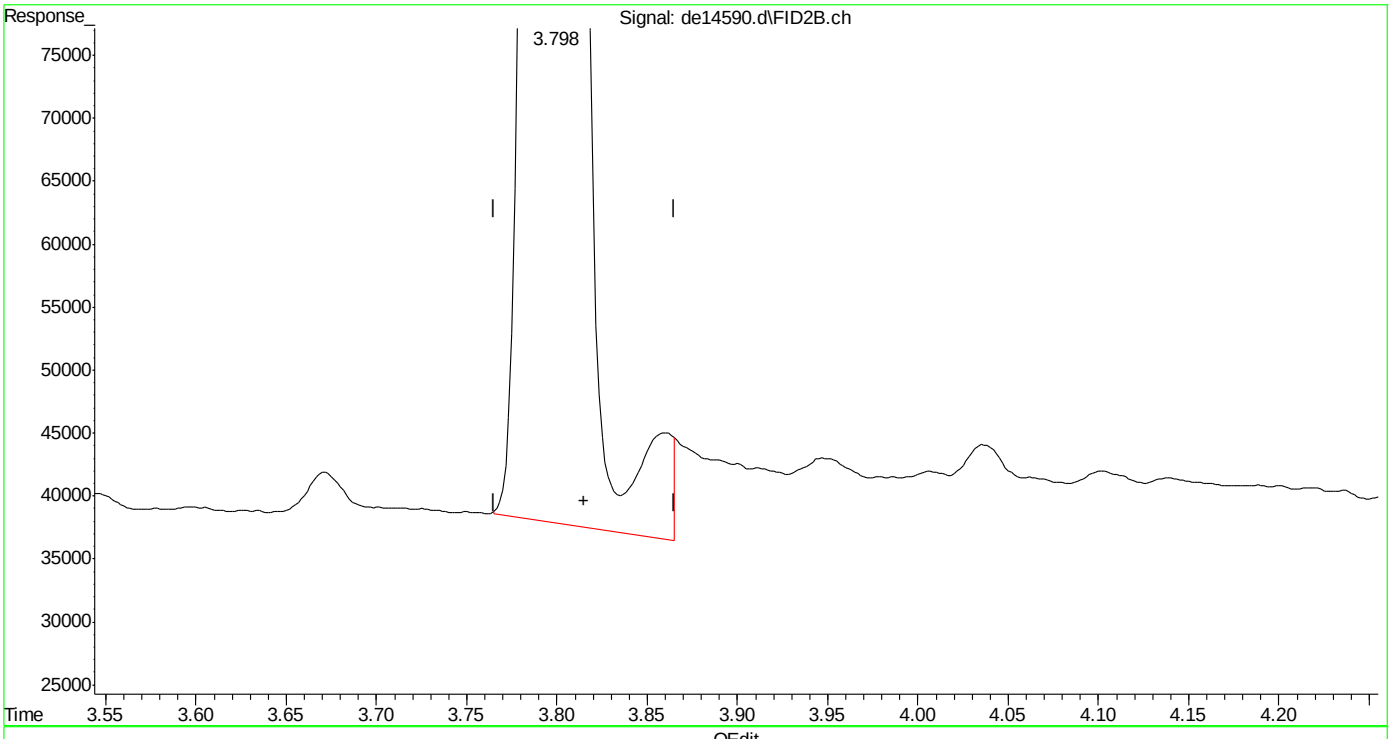
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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 14.767 µg/ml
response 1090862

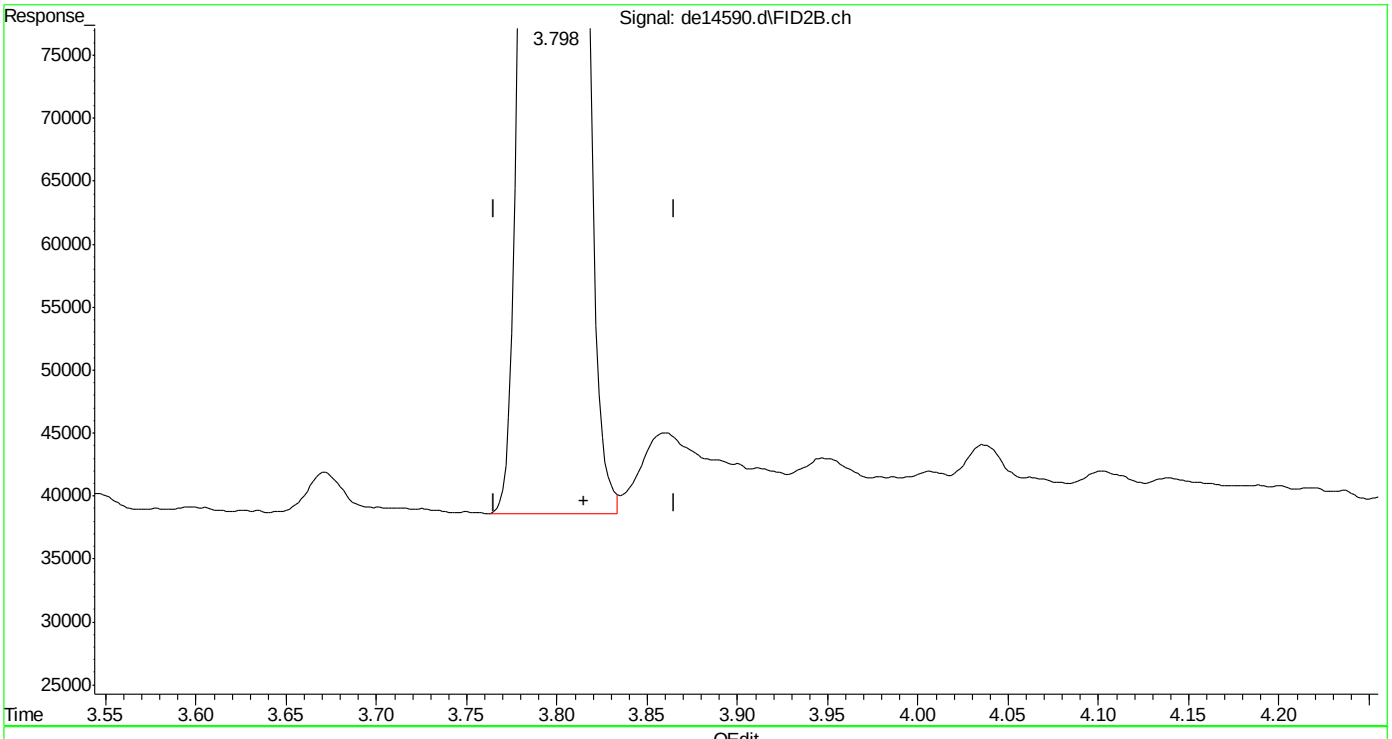
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14590.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 4:01 pm
Operator : thomasa
Sample : op47853-bsd
Misc : op47853,gde811,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 16:52:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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 14.566 µg/ml m
response 1076038

(+) = Expected Retention Time

SGS ACCUTEST MC46340

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.

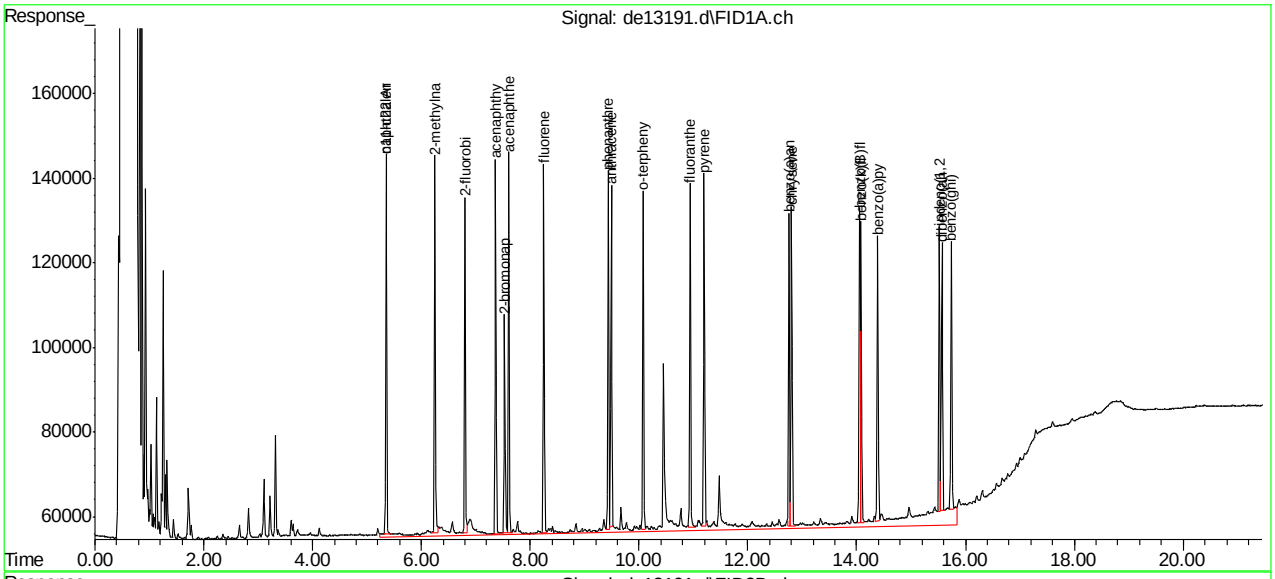
SGS ACCUTEST MC46340

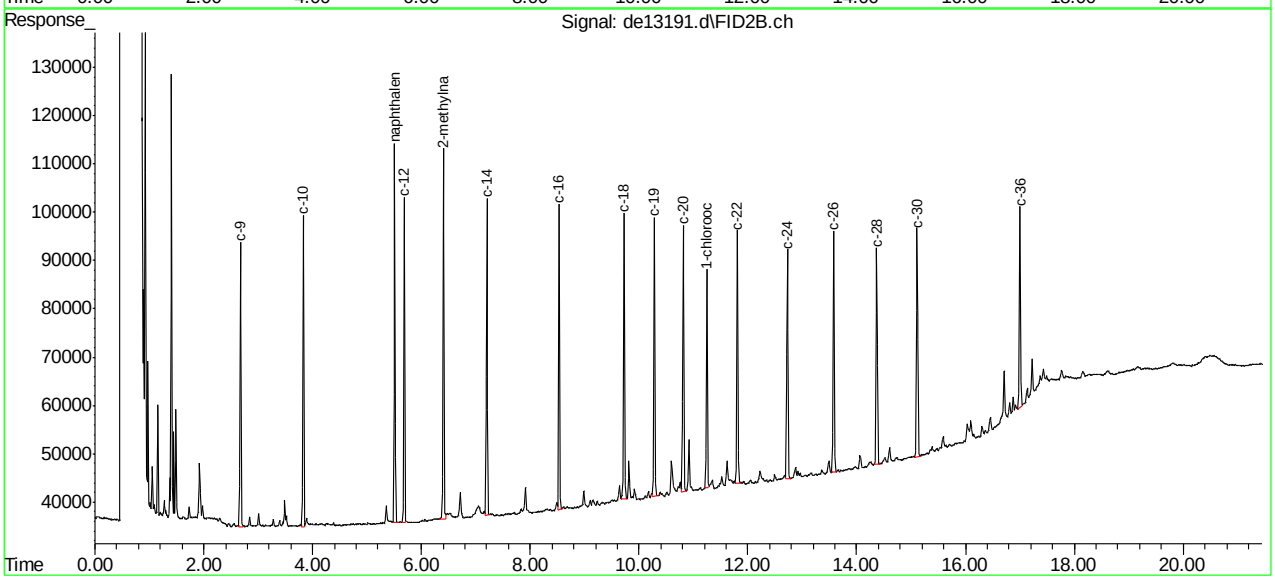
Quantitation Report (QT Reviewed)

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

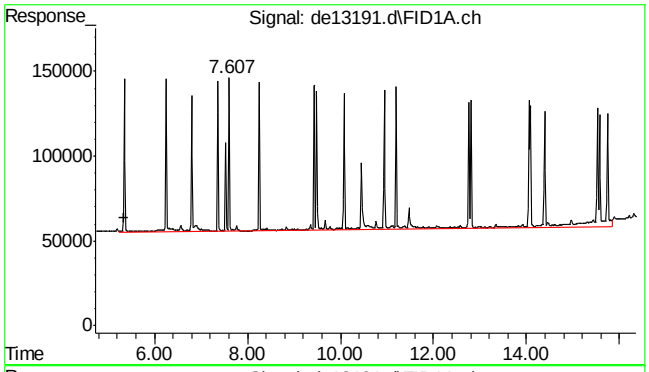
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



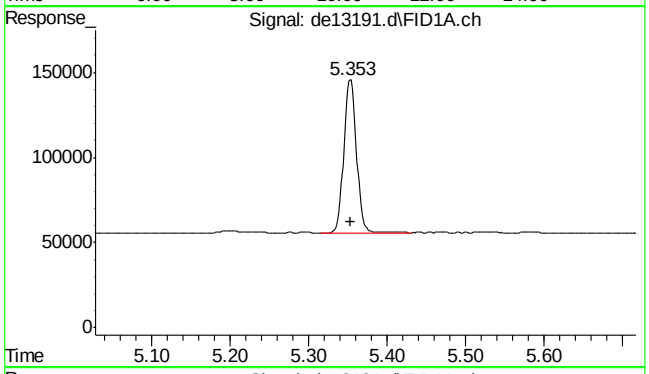


SGS ACCUTEST MC46340



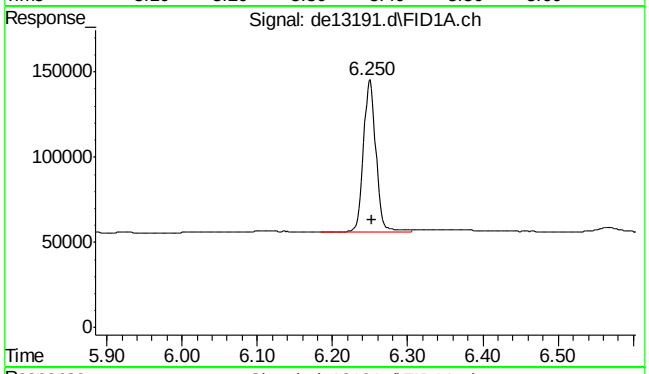
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



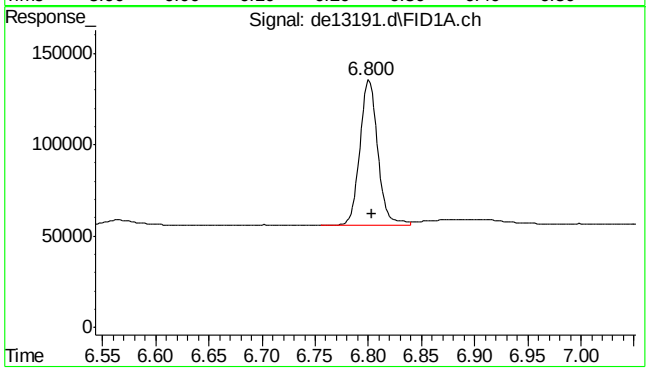
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



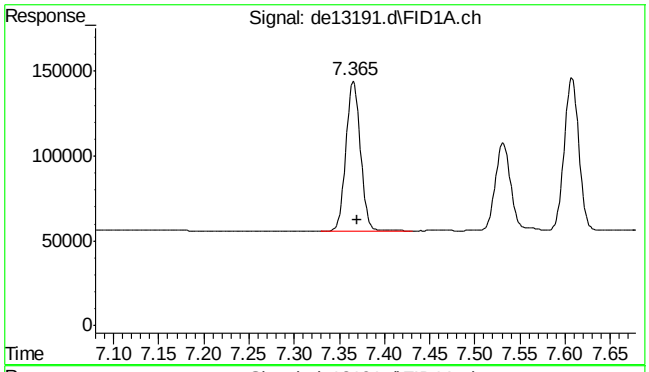
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



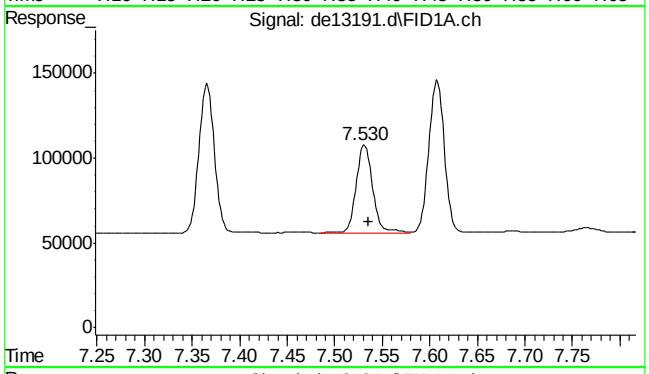
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml



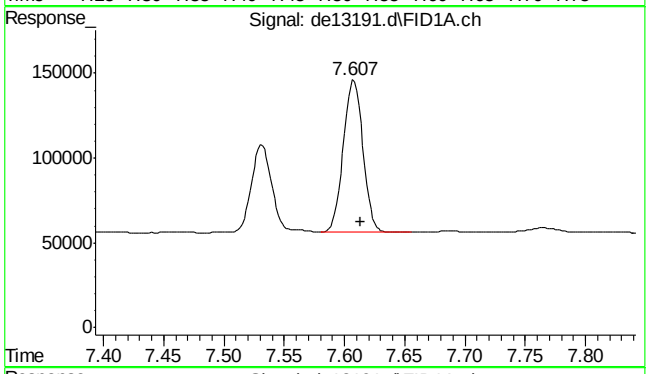
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



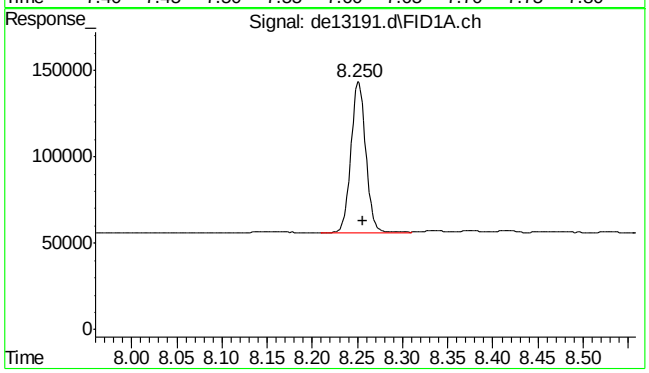
#6 2-bromonaphthalene

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

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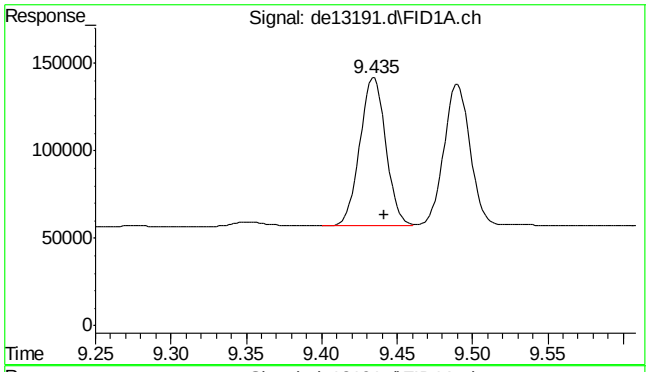
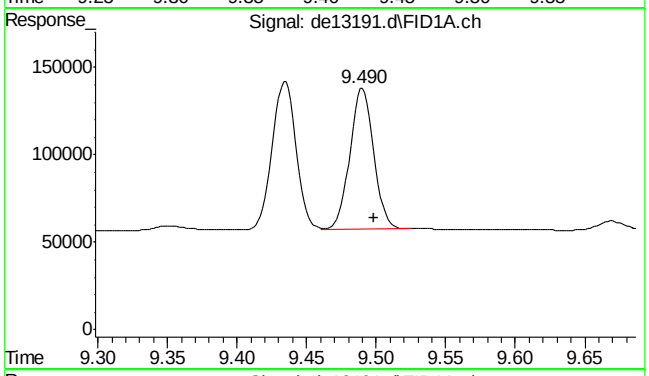


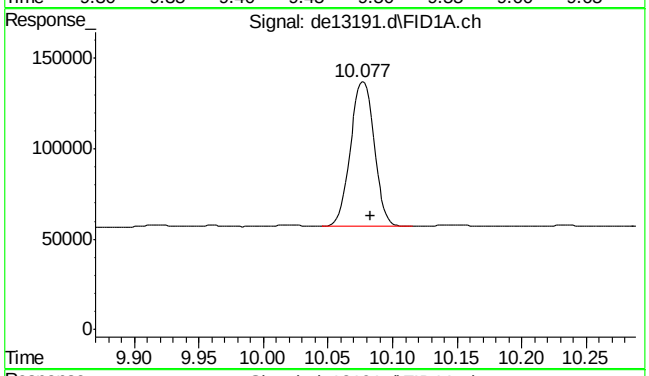
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



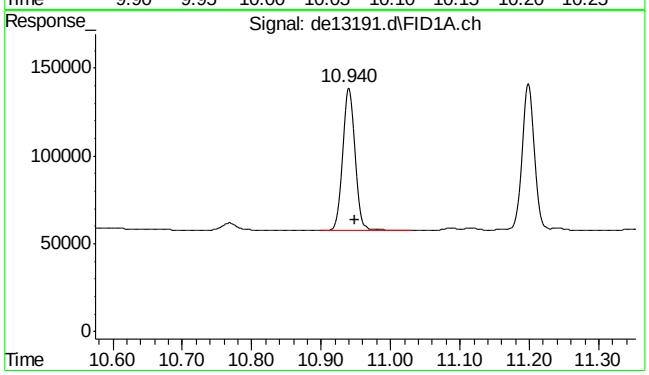
#10 anthracene

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

9.4.1

9

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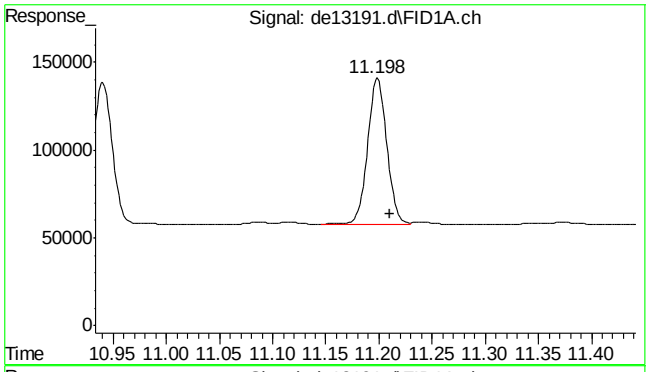
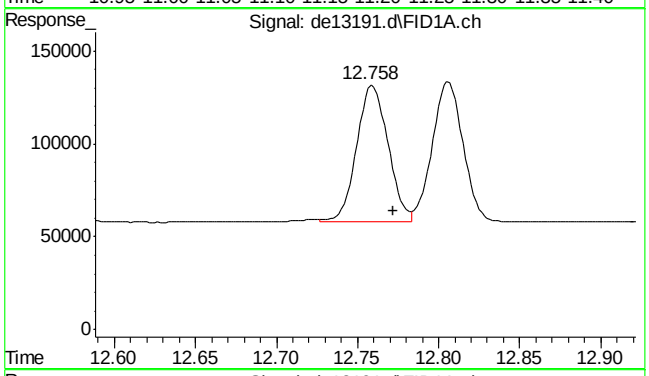


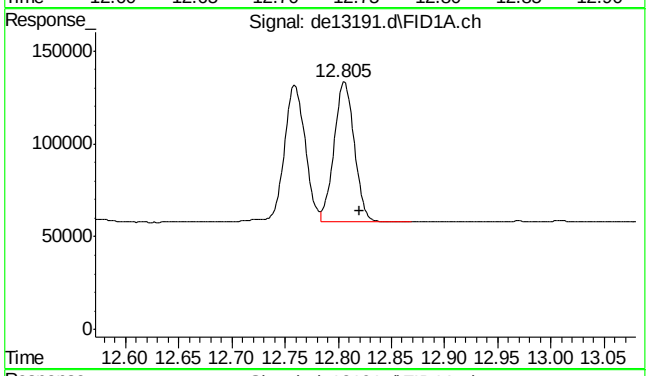
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



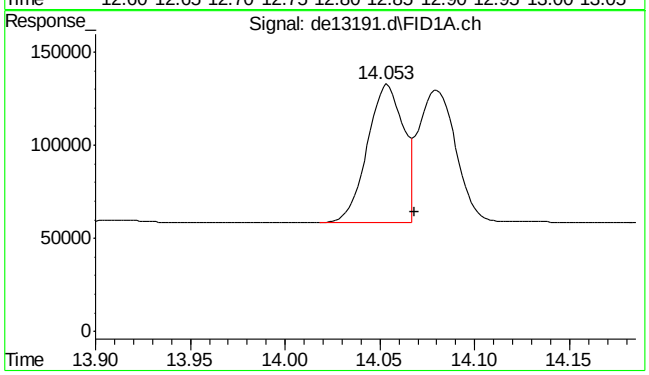
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



#15 chrysene

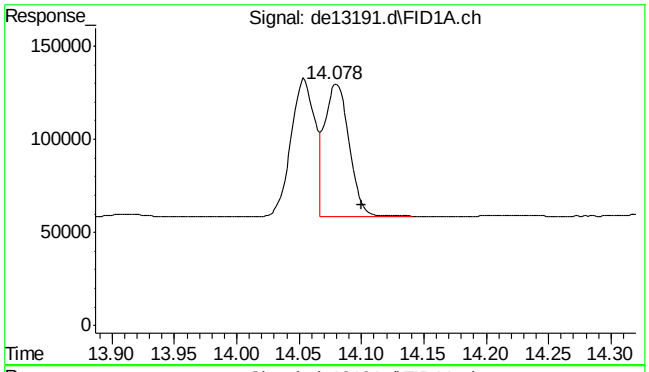
R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



#16 benzo(B)fluoranthene

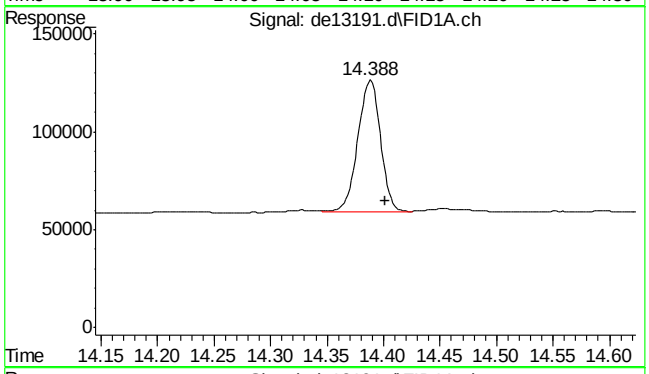
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m

SGS ACCUTEST MC46340



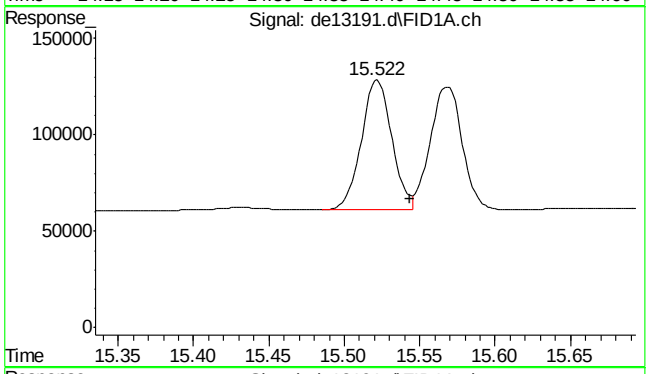
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



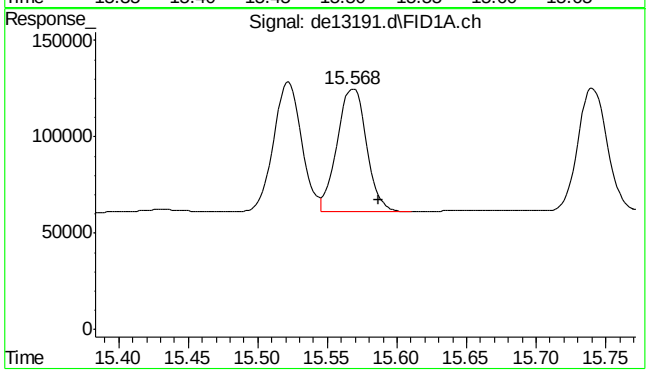
#18 benzo(a)pyrene

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

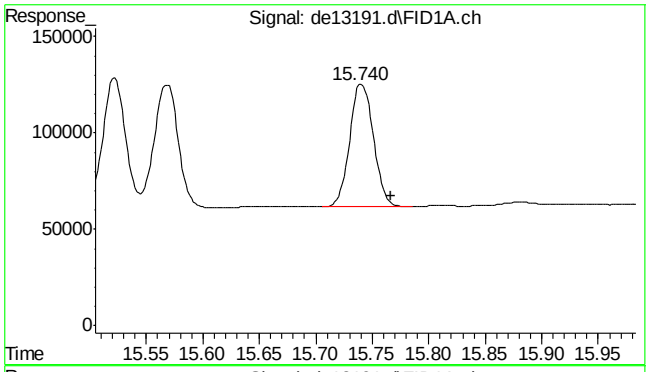
R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



#20 dibenzo(ah)anthracene

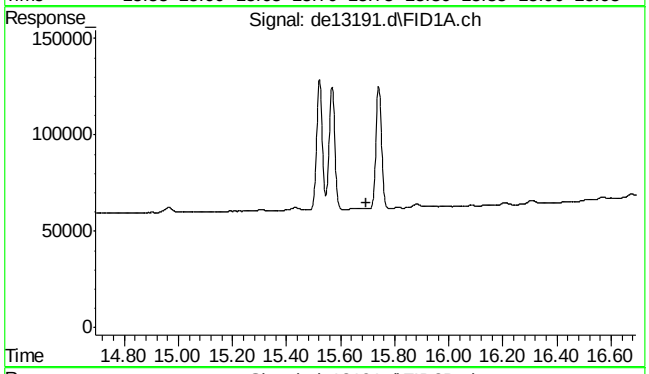
R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml

SGS ACCUTEST MC46340



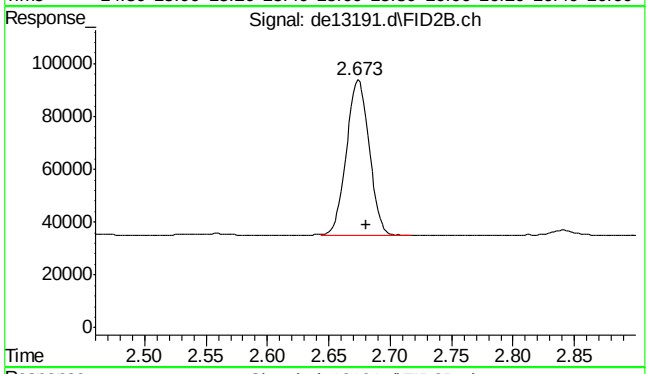
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



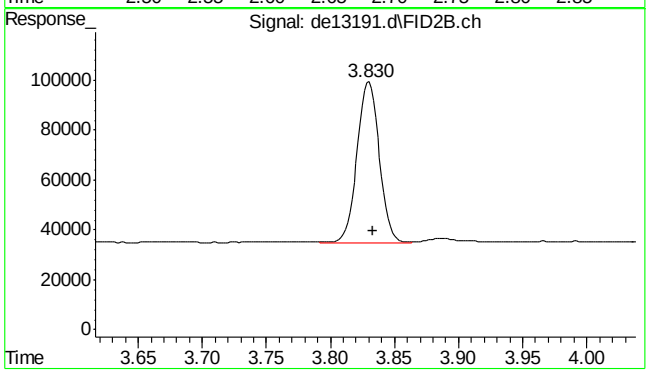
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

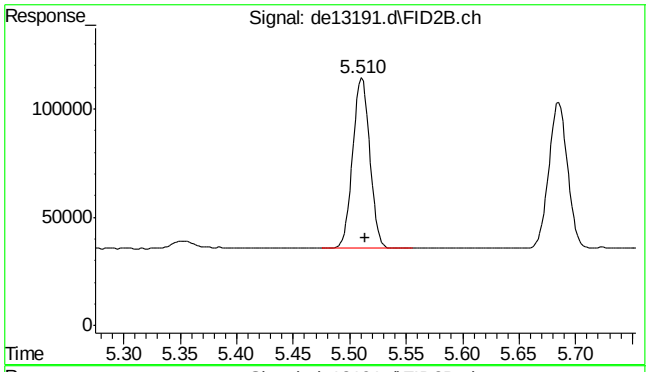
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



#26 c-10

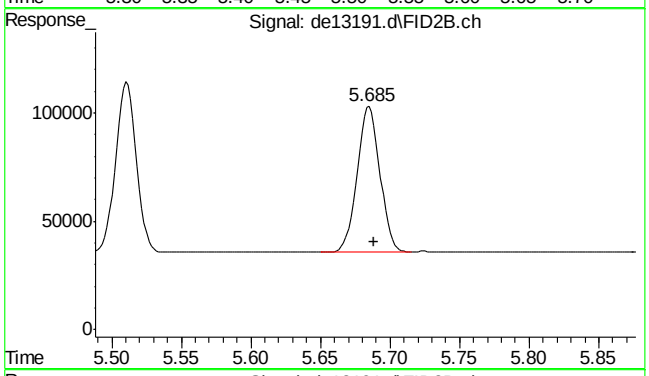
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m

SGS ACCUTEST MC46340



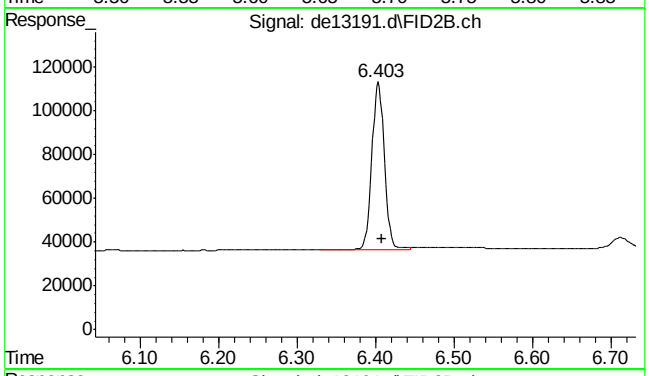
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



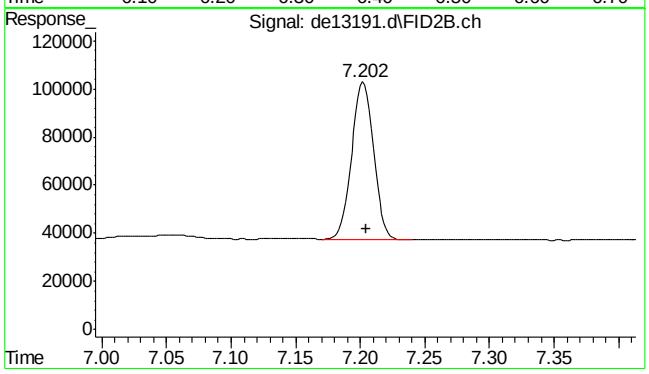
#28 c-12

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



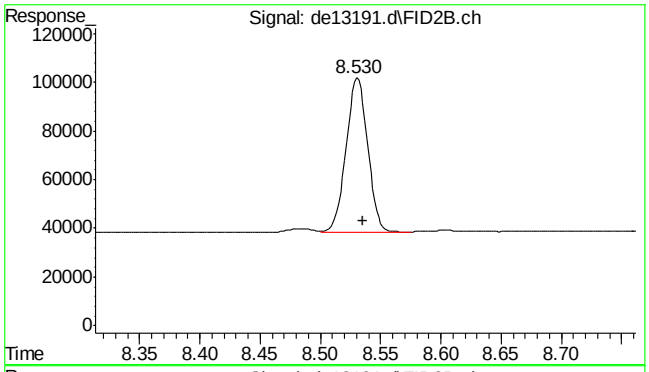
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

9.4.1

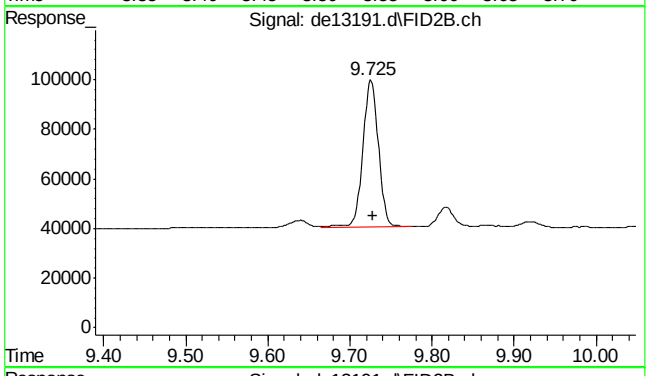
9

SGS ACCUTEST MC46340



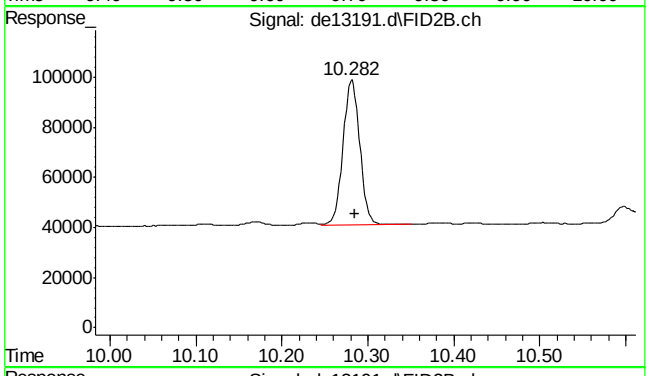
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



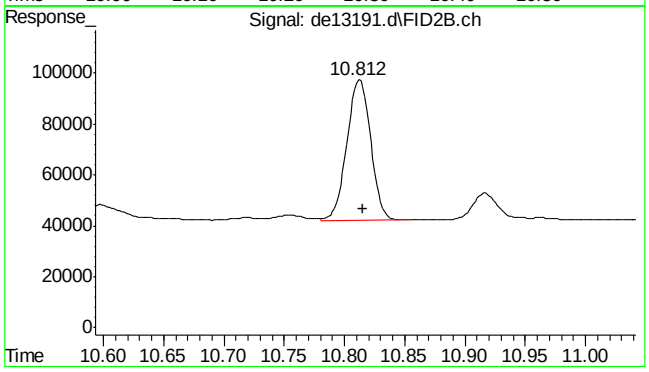
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 77956
Conc: 1.10 µg/ml



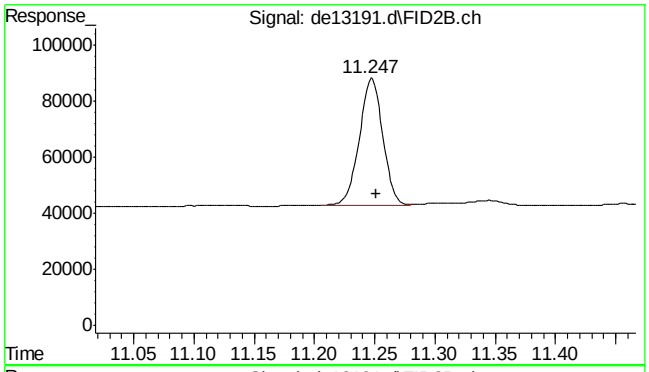
#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 78108
Conc: 1.16 µg/ml



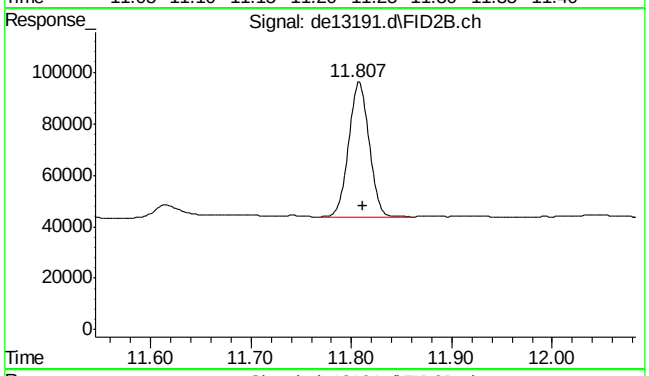
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml



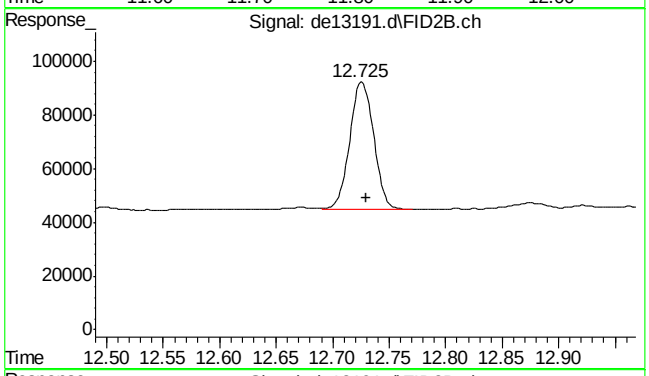
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



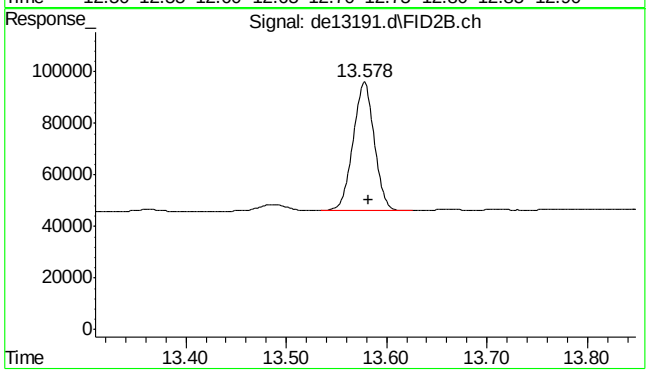
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

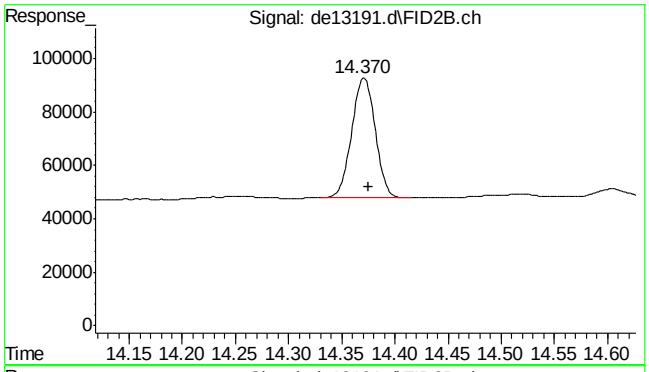
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



#38 c-26

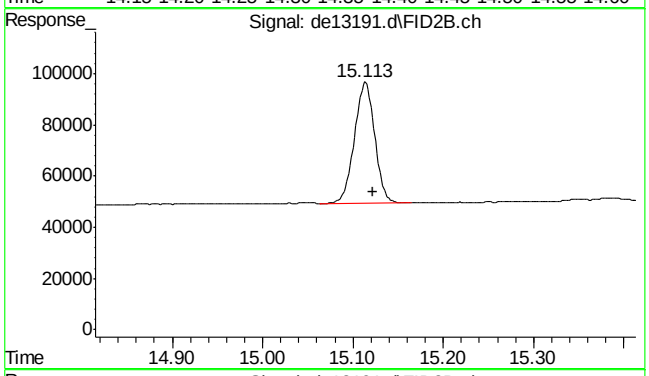
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

SGS ACCUTEST MC46340



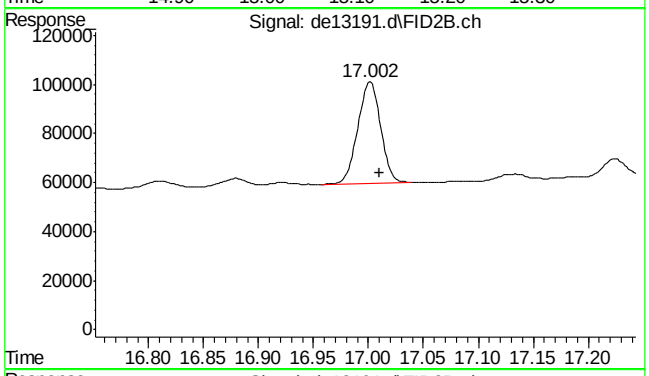
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



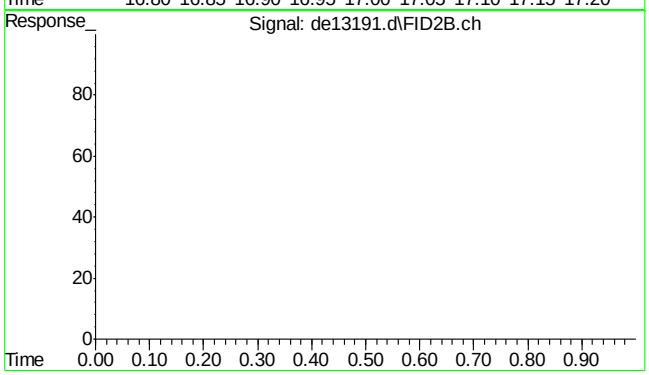
#40 c-30

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



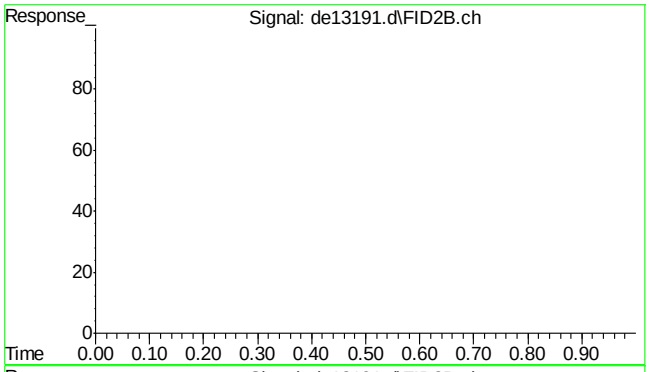
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.1

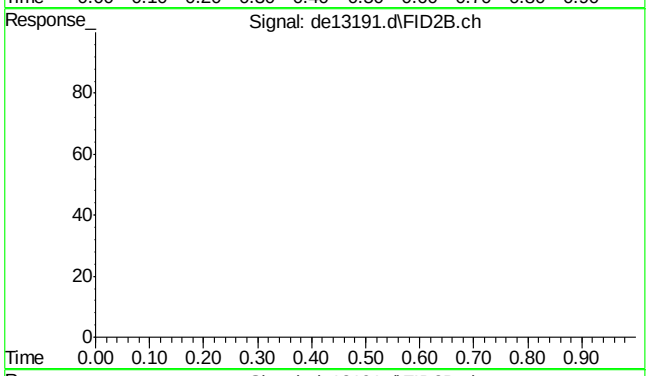
9

SGS ACCUTEST MC46340



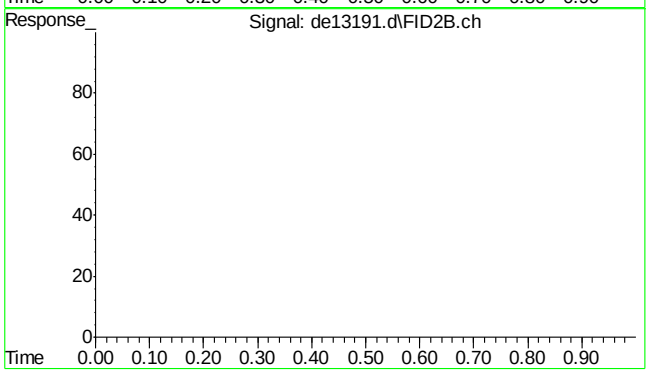
#43 bht

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

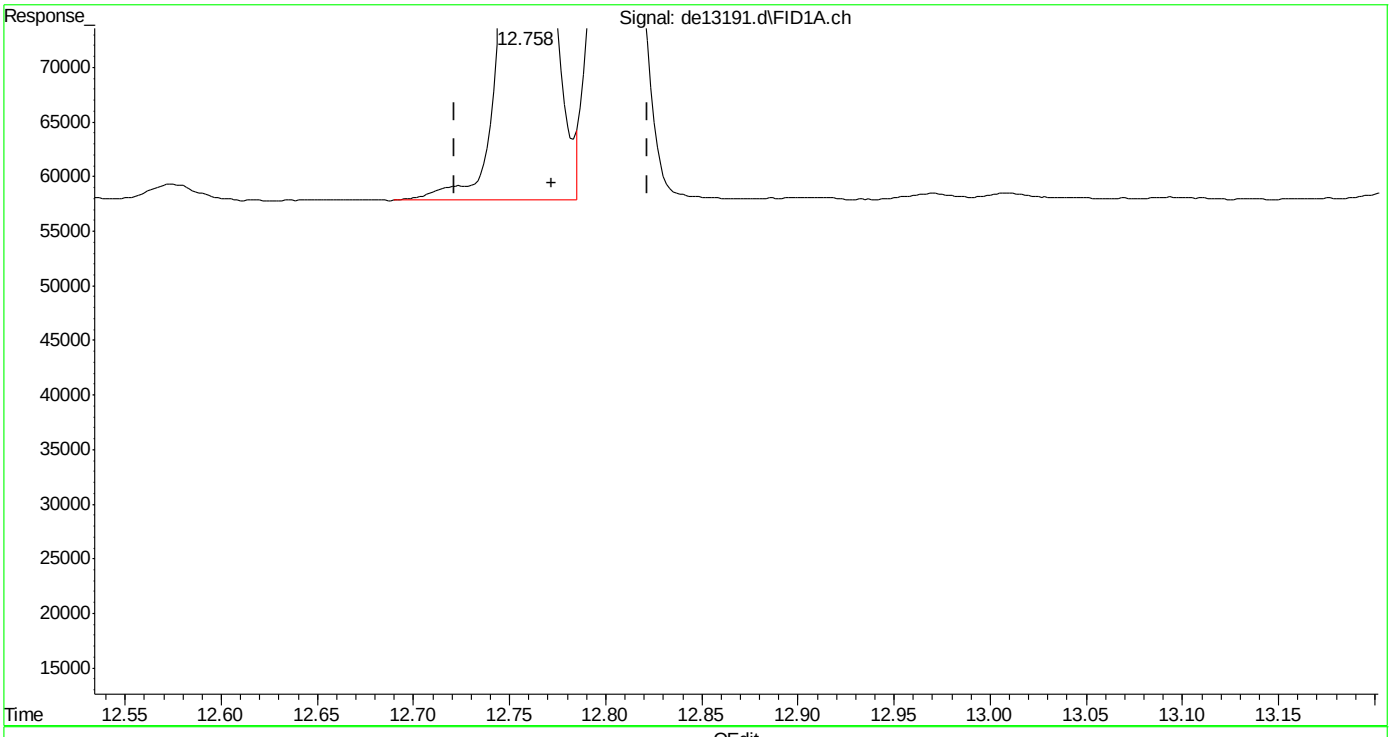
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

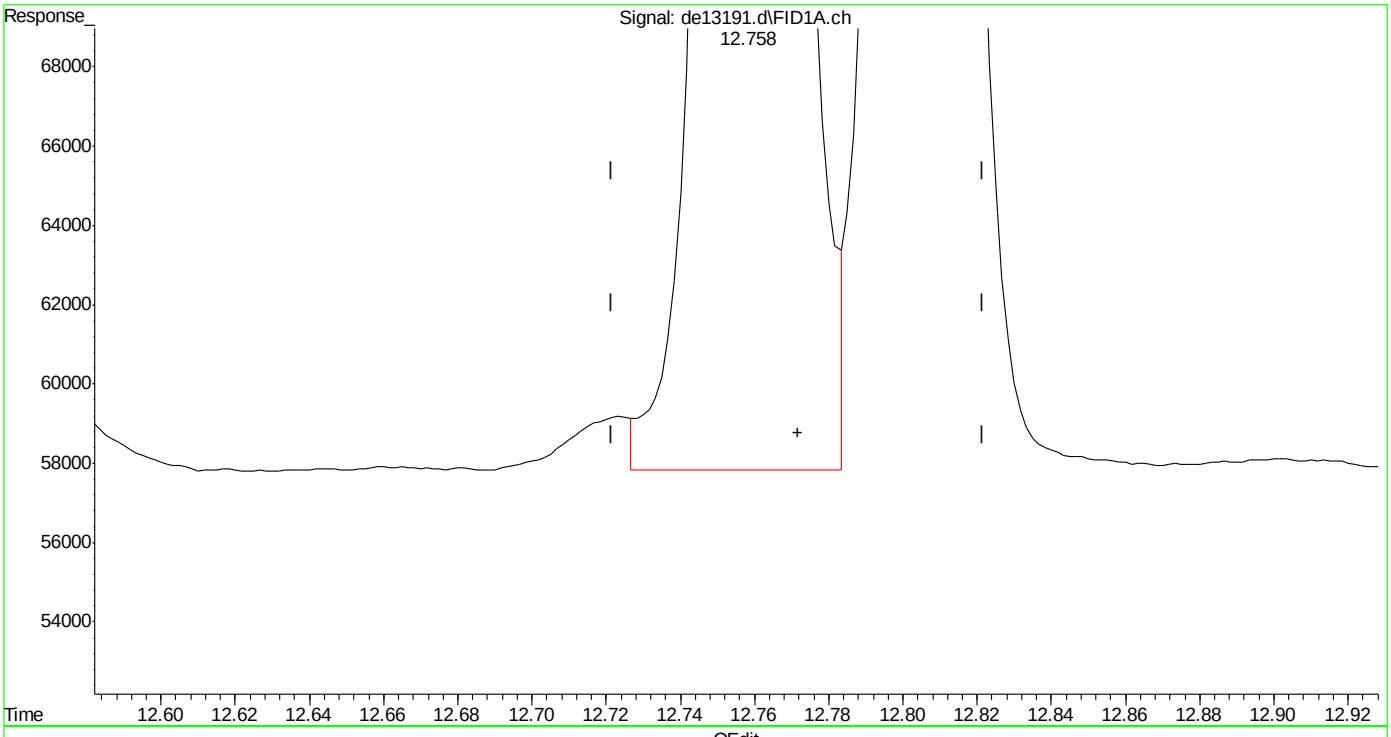
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:36:15 2016 Page: 1

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 :



(14) benzo(a)anthracene
12.758min 1.022 µg/ml m
response 100487

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:36:33 2016

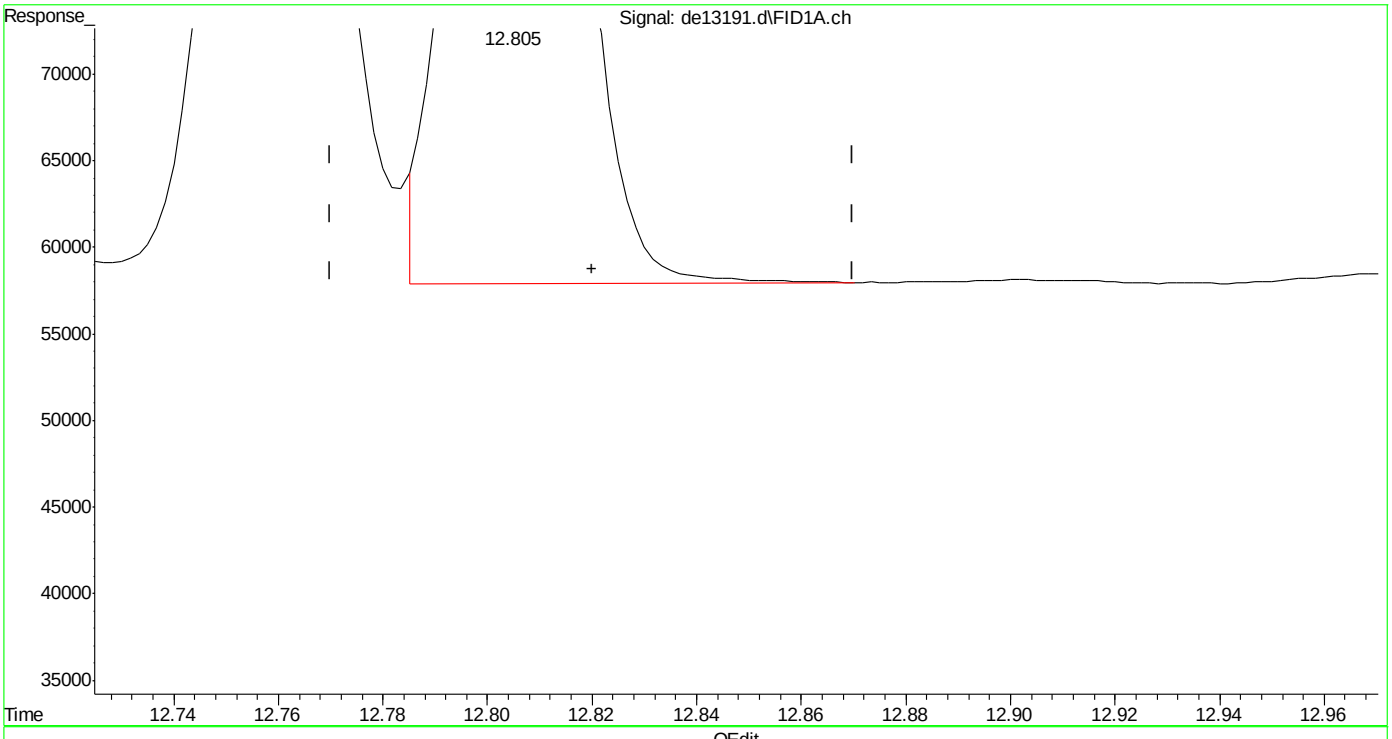
SGS ACCUTEST MC46340

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

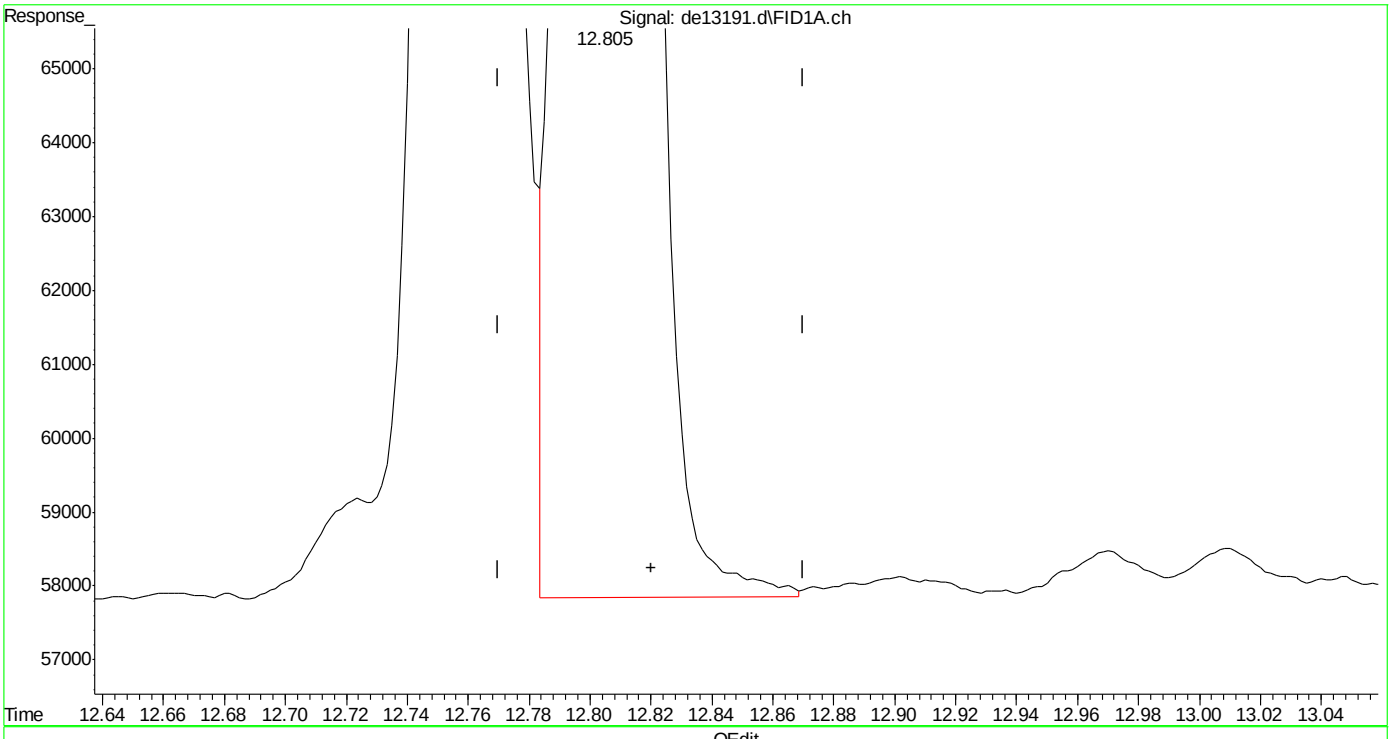
(+) = Expected Retention Time

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

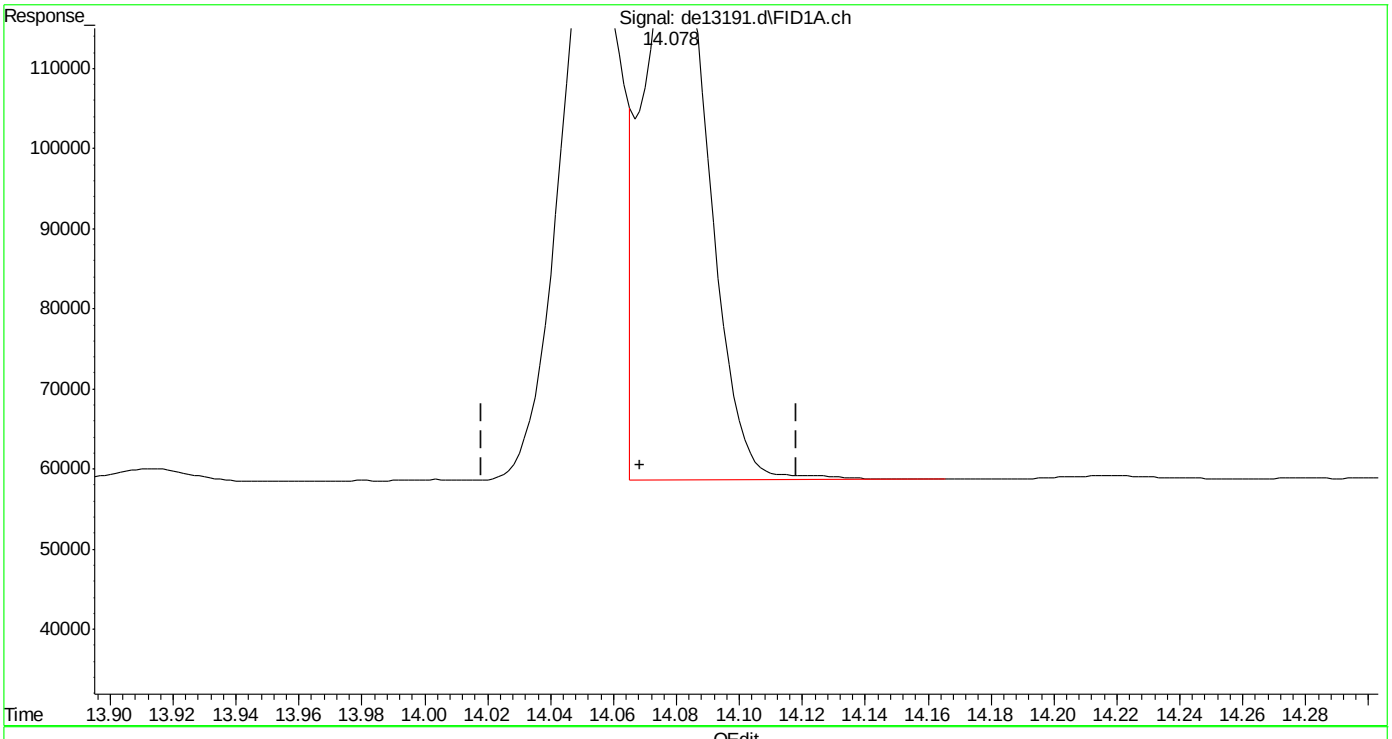
(+) = Expected Retention Time

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

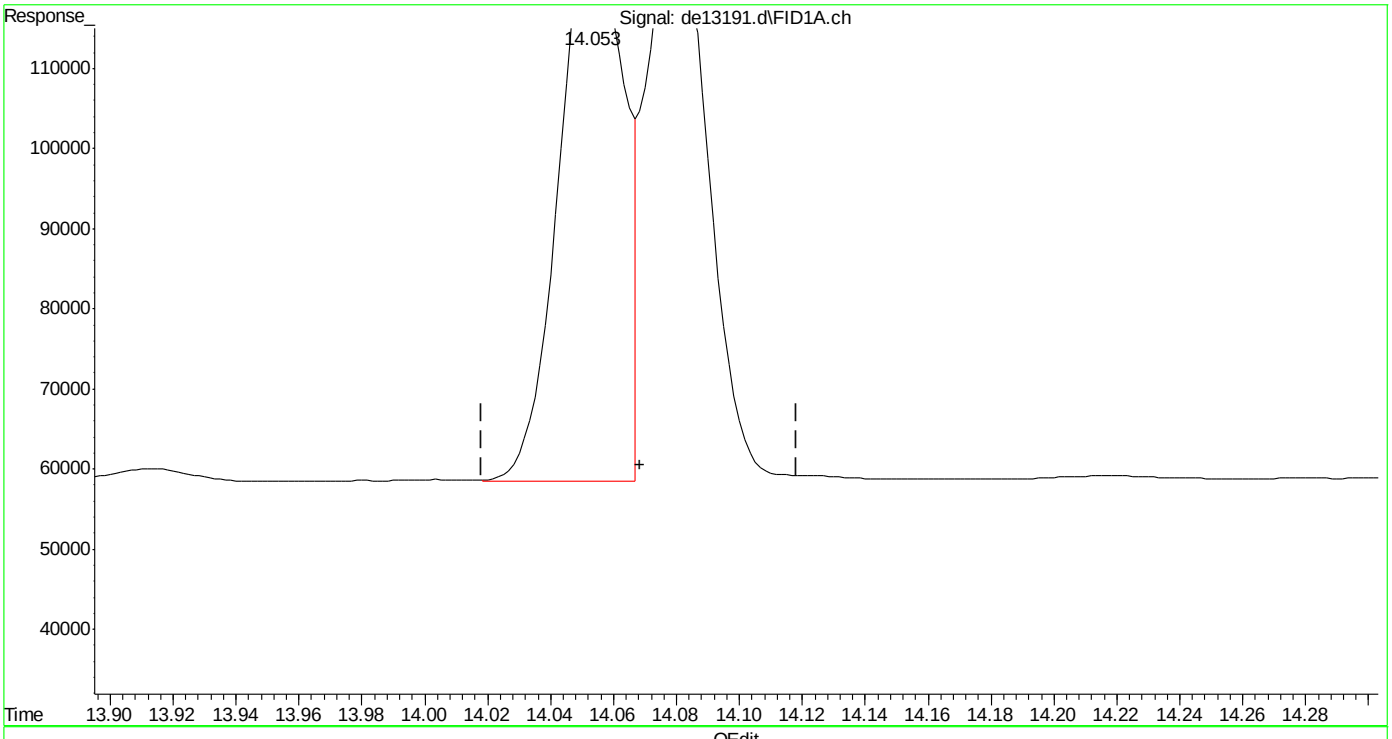
(+) = Expected Retention Time

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

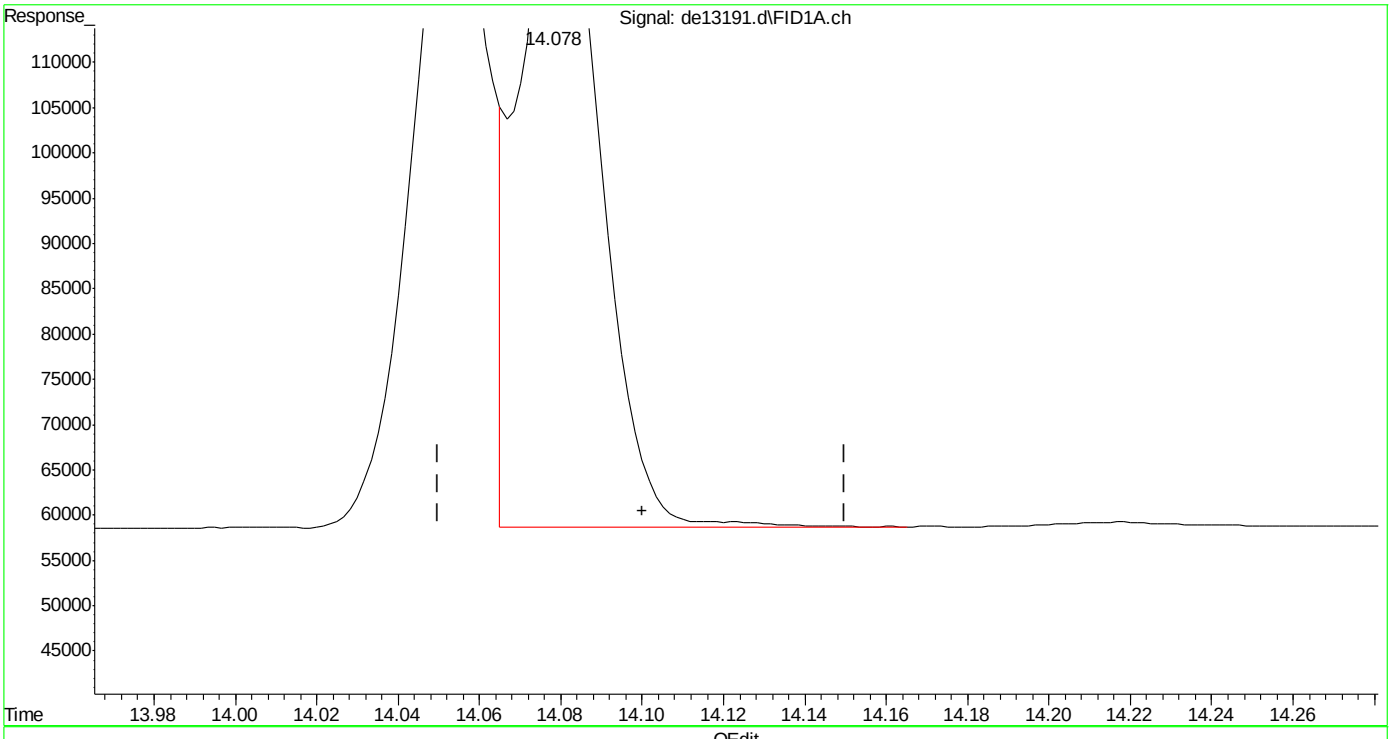
(+) = Expected Retention Time

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

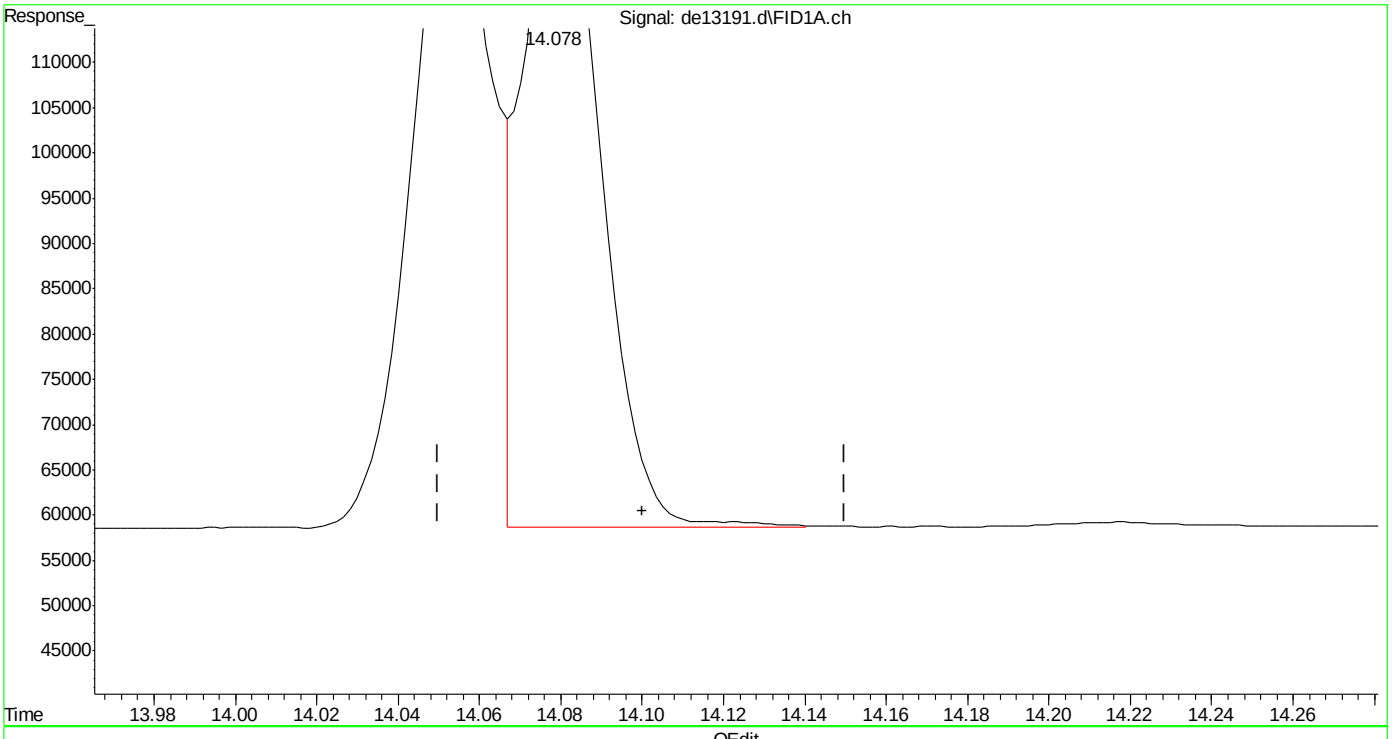
EPH160204M.M Fri Feb 05 10:37:26 2016 Page: 1

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

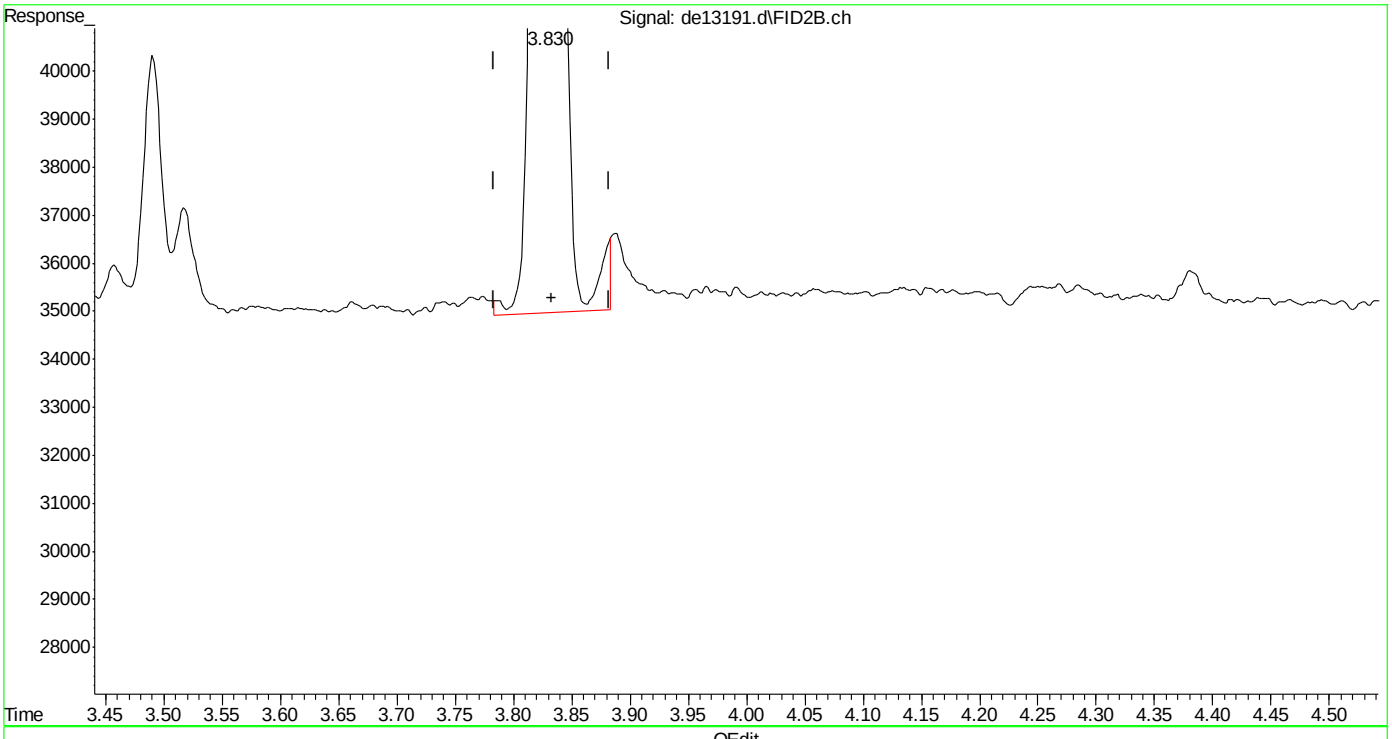
EPH160204M.M Fri Feb 05 10:37:39 2016 Page: 1

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

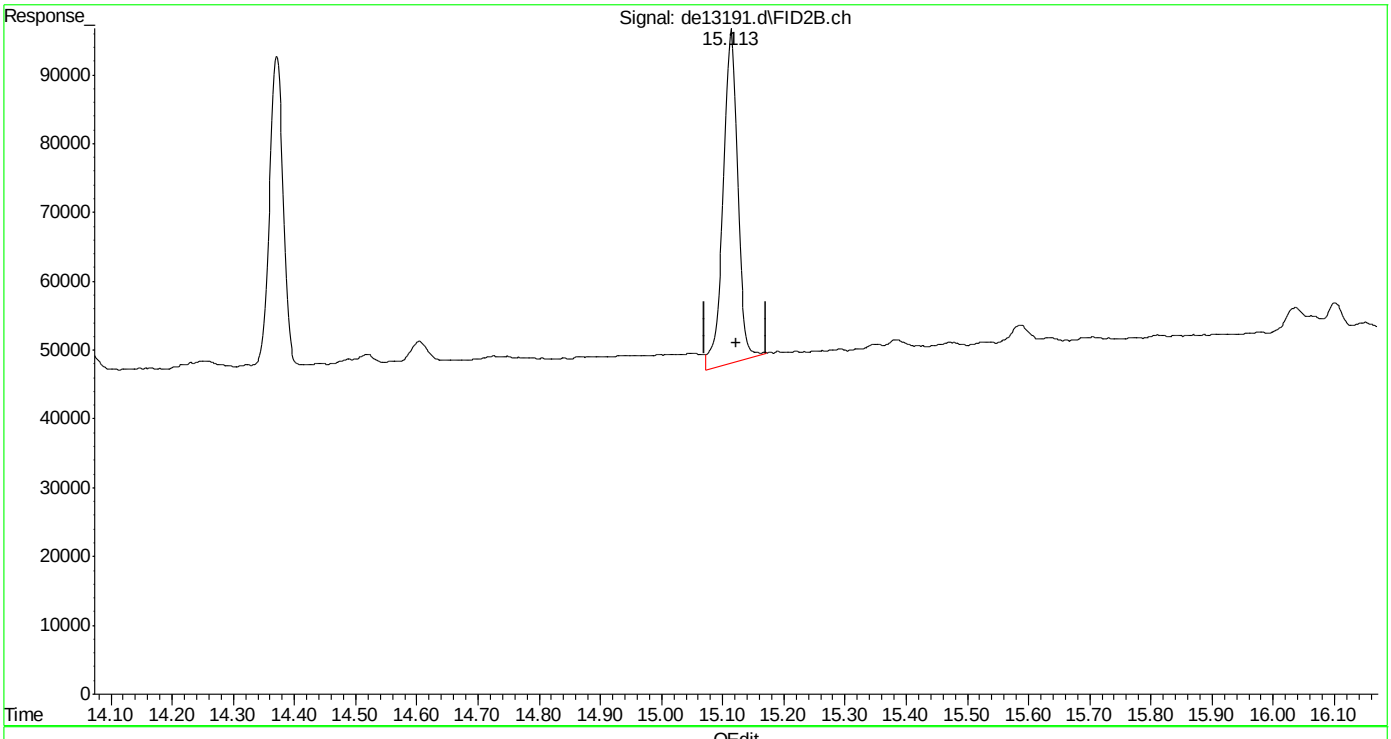
(+) = Expected Retention Time

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

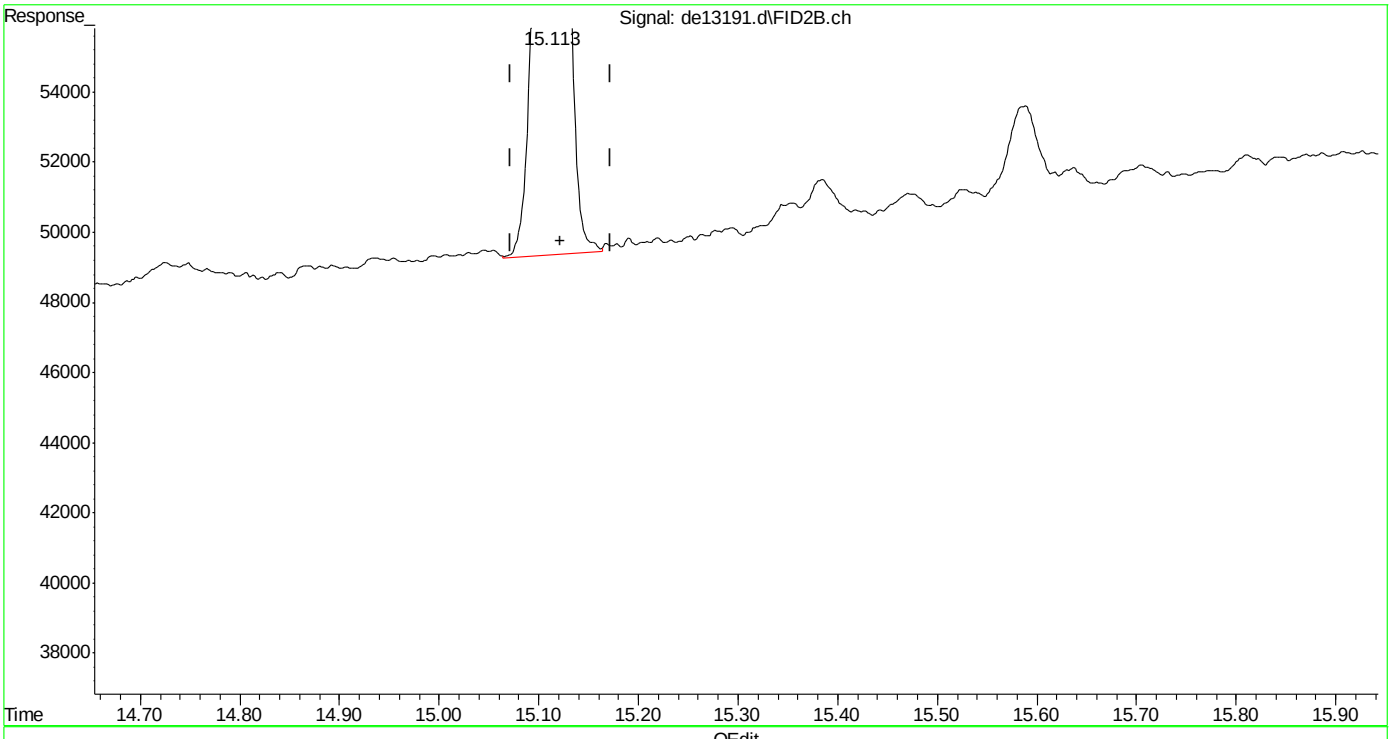
(+) = Expected Retention Time

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

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.

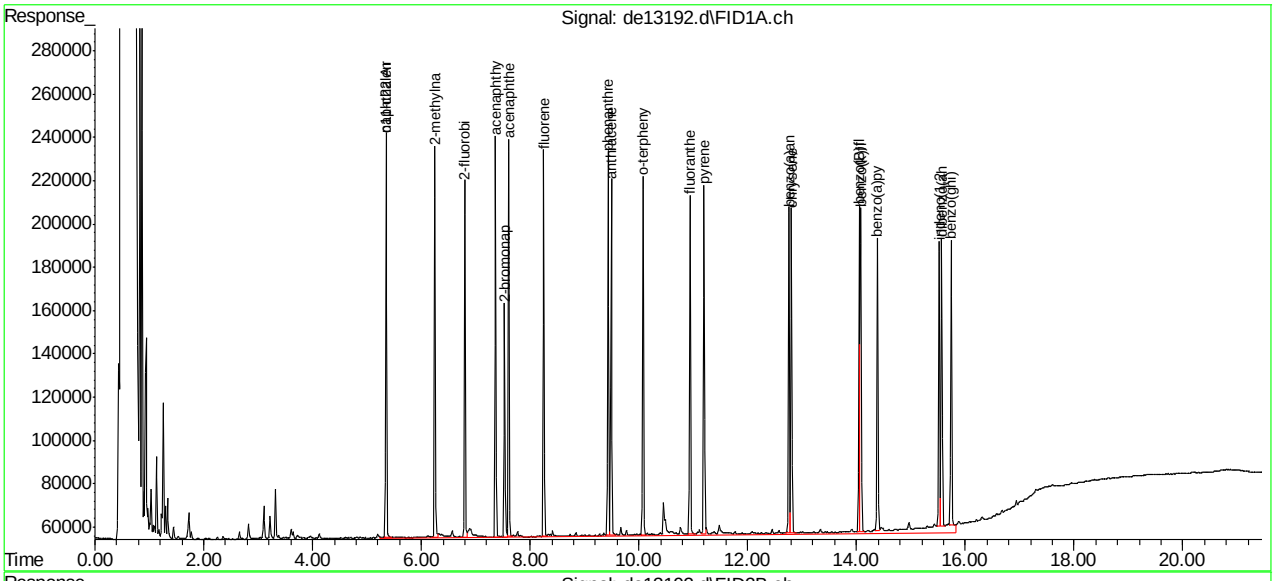
SGS ACCUTEST MC46340

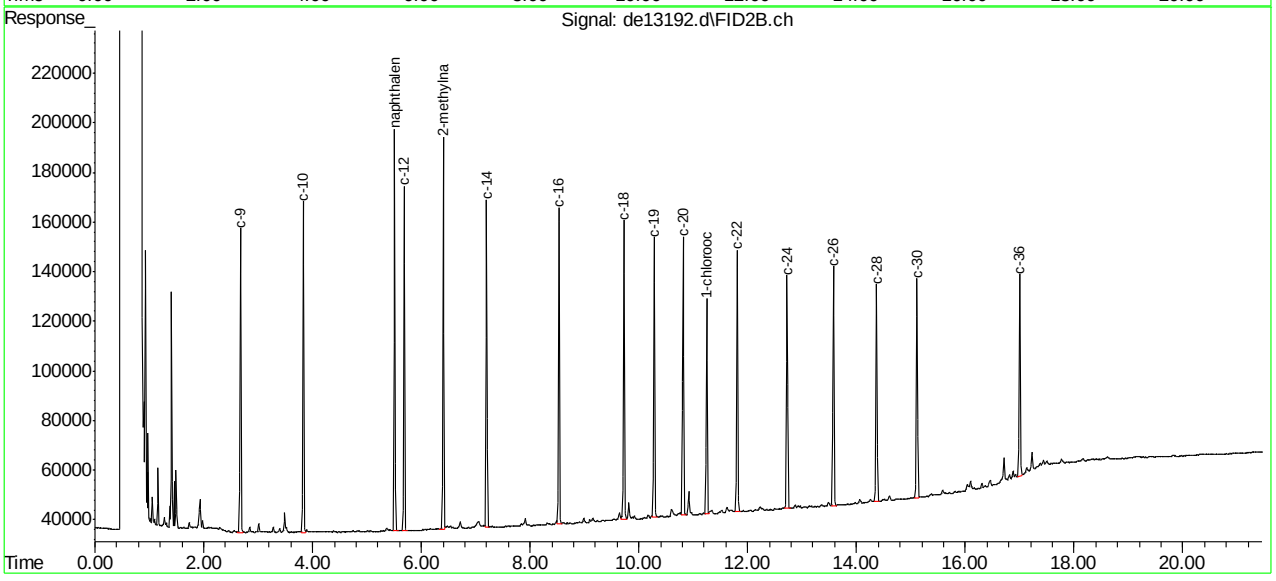
Quantitation Report (QT Reviewed)

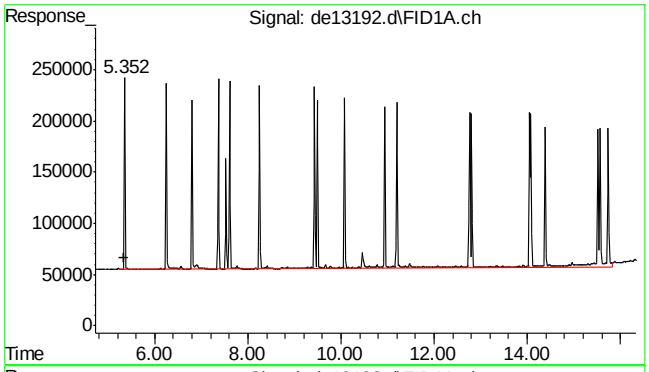
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

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 :

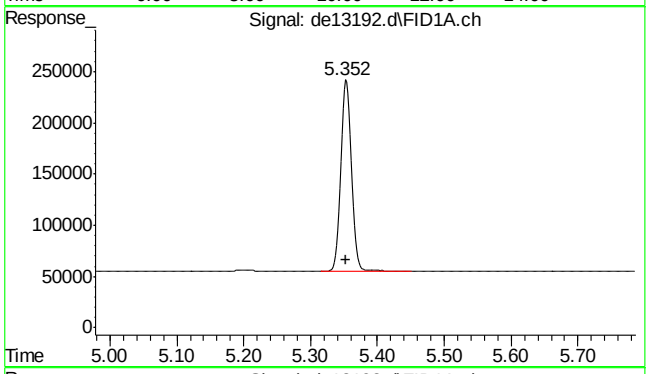






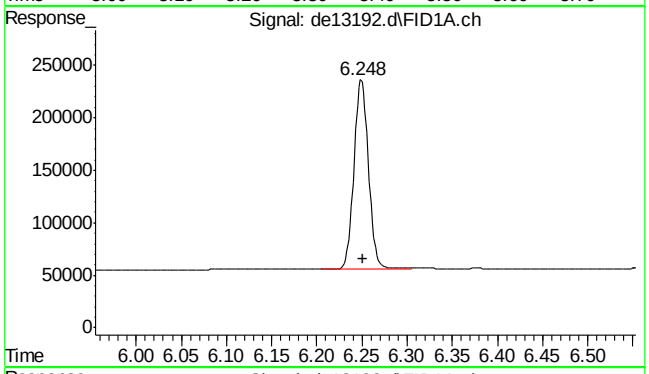
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



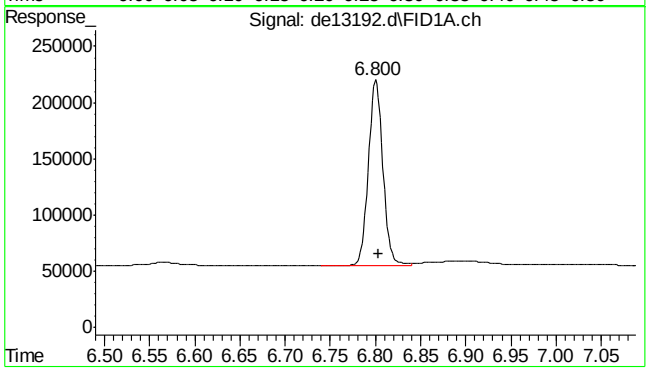
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



#3 2-methylnaphthalene

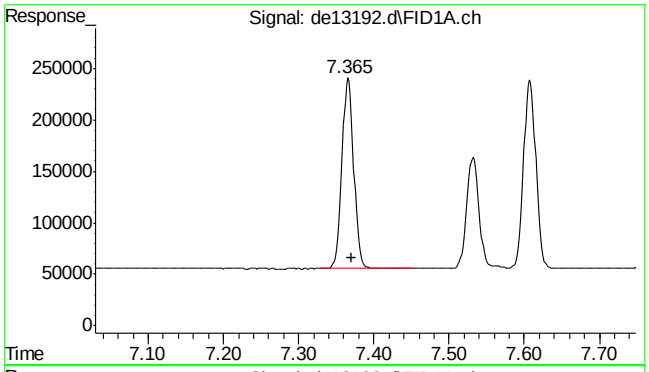
R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



#4 2-fluorobiphenyl

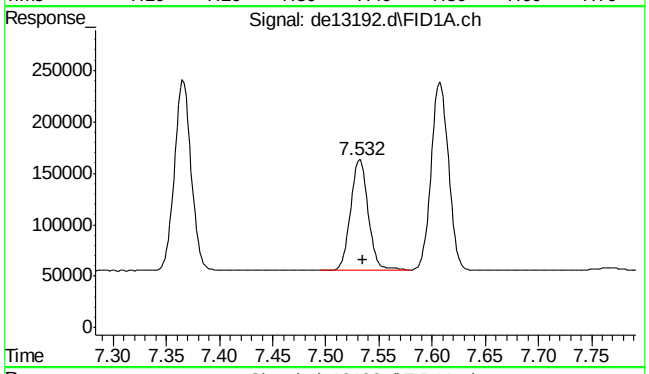
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml

SGS ACCUTEST MC46340



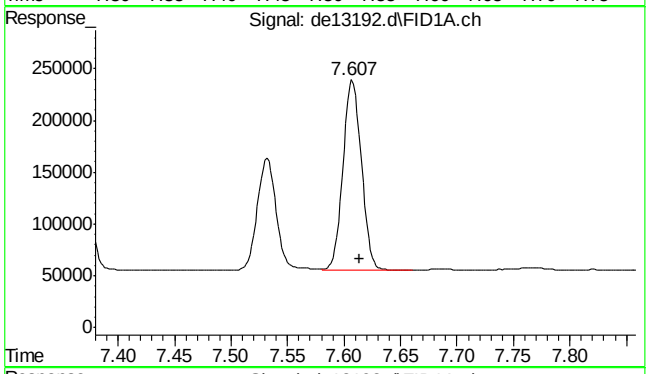
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



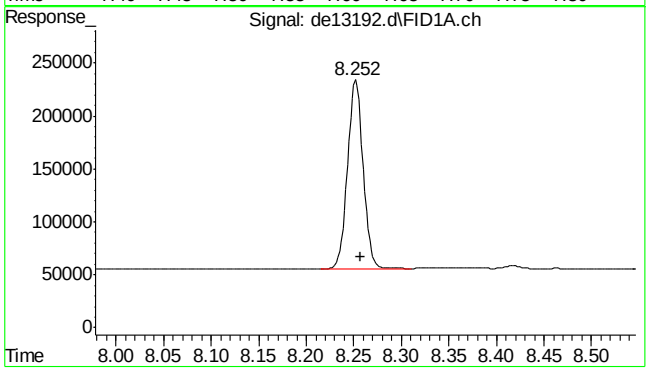
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



#7 acenaphthene

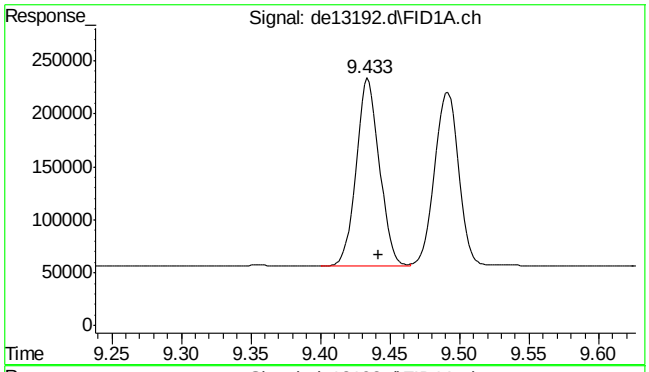
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



#8 fluorene

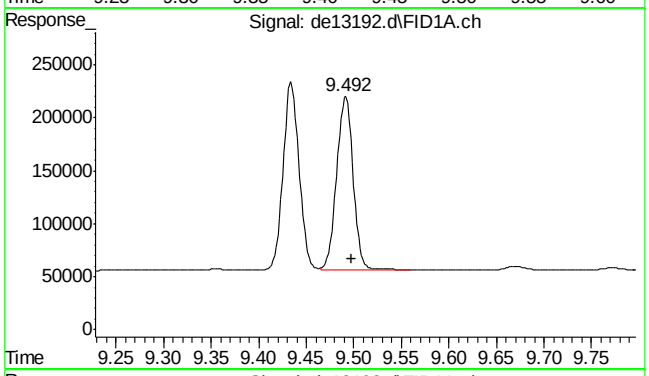
R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml

SGS ACCUTEST MC46340



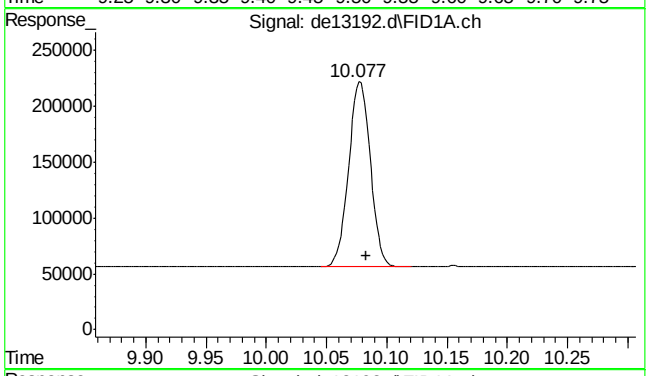
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



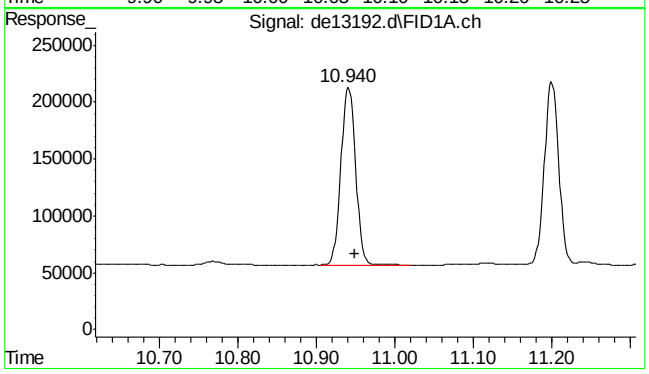
#10 anthracene

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



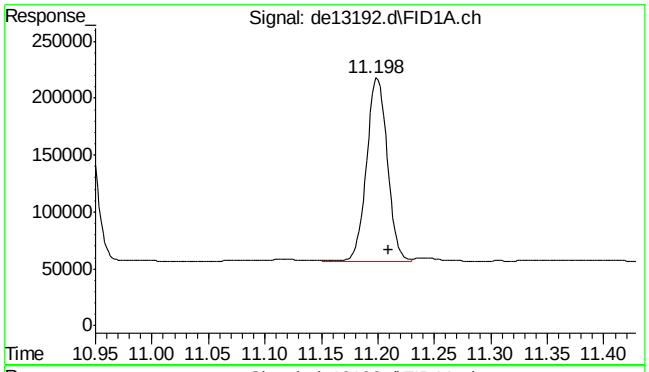
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 203479
Conc: 1.96 µg/ml

9.4.2

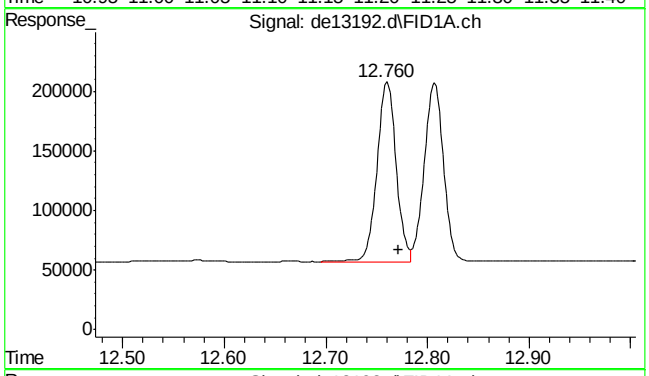
9

SGS ACCUTEST MC46340



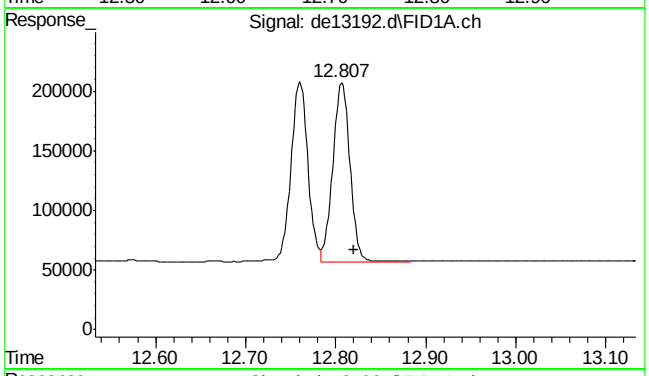
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



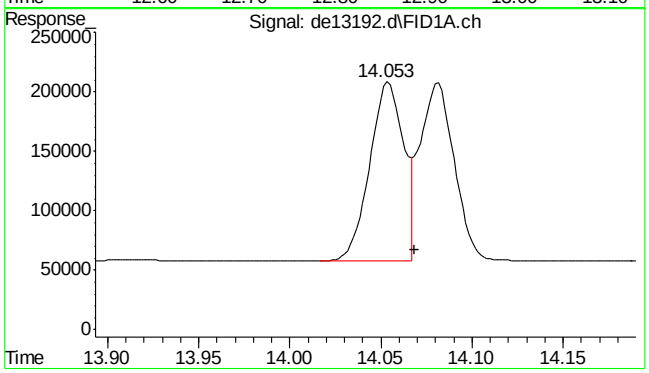
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



#15 chrysene

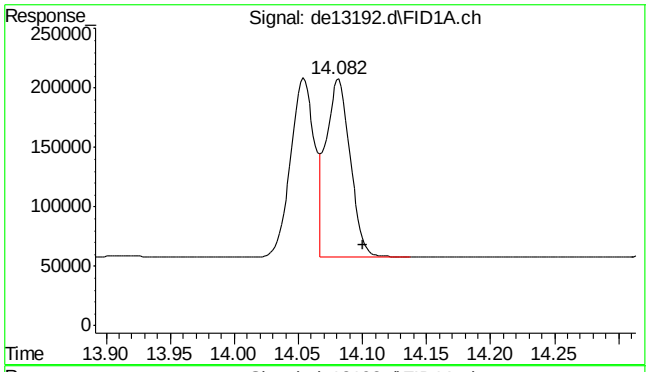
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



#16 benzo(B)fluoranthene

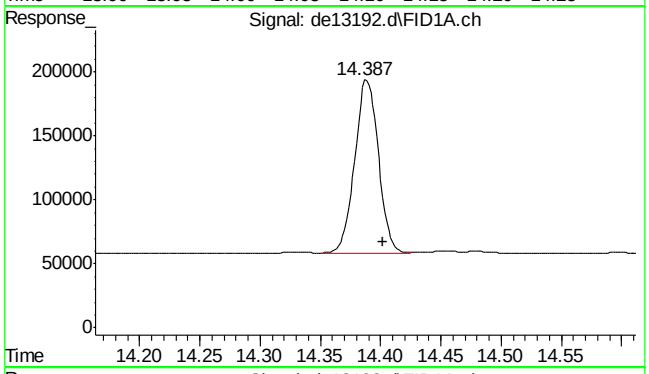
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m

SGS ACCUTEST MC46340



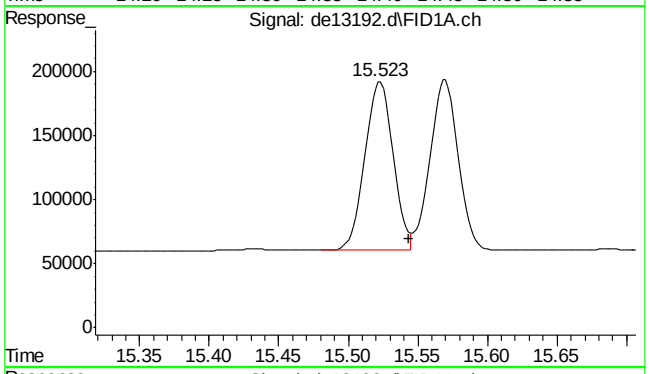
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



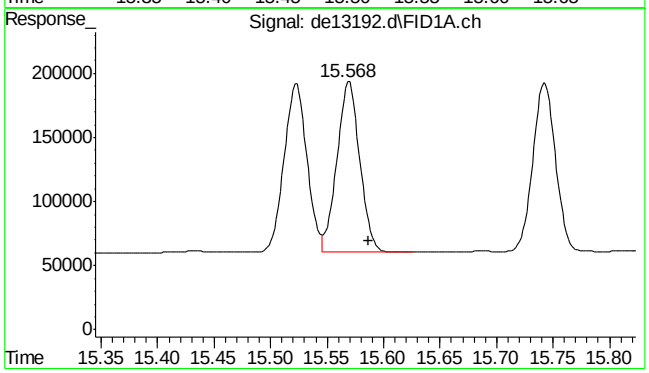
#18 benzo(a)pyrene

R.T.: 14.387 min
Delta R.T.: -0.015 min
Response: 184685
Conc: 1.91 µg/ml



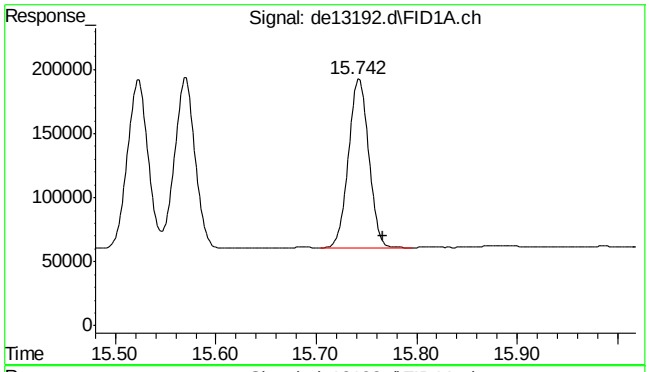
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



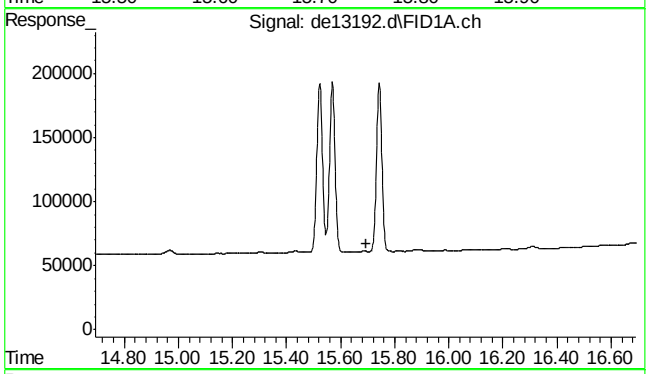
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml



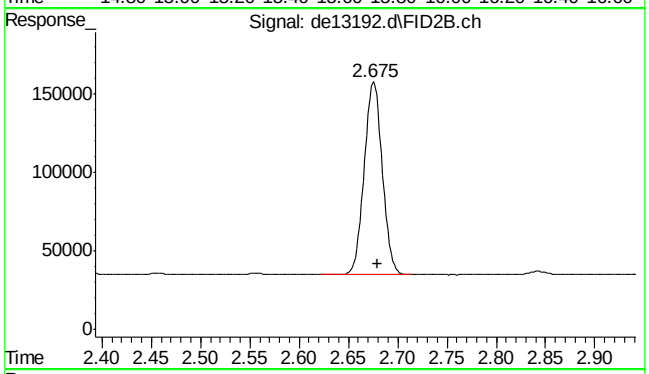
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



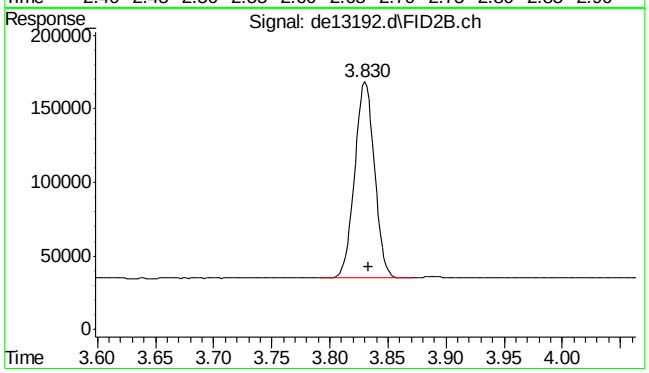
#22 bht

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

9.4.2
9

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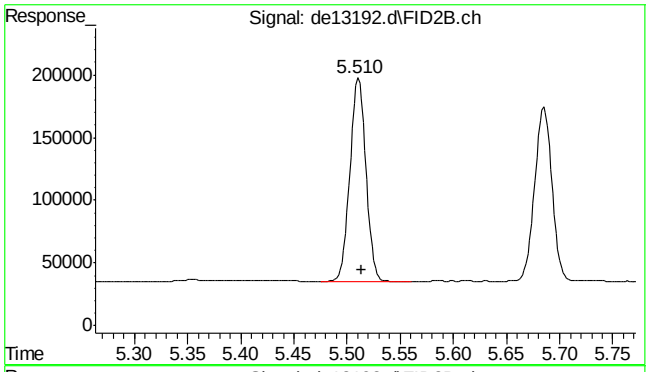
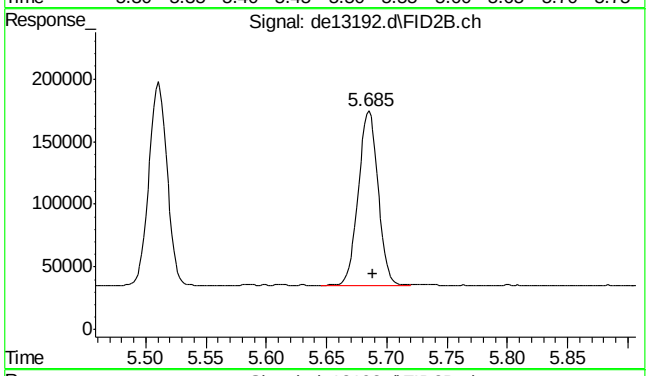


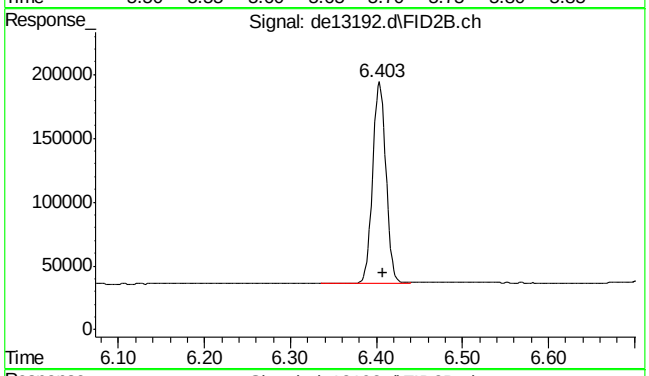
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



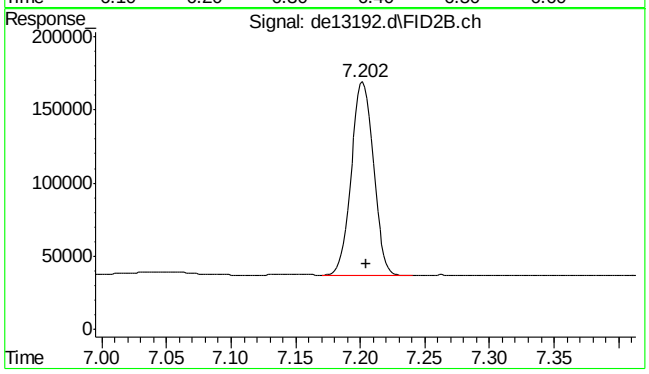
#28 c-12

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



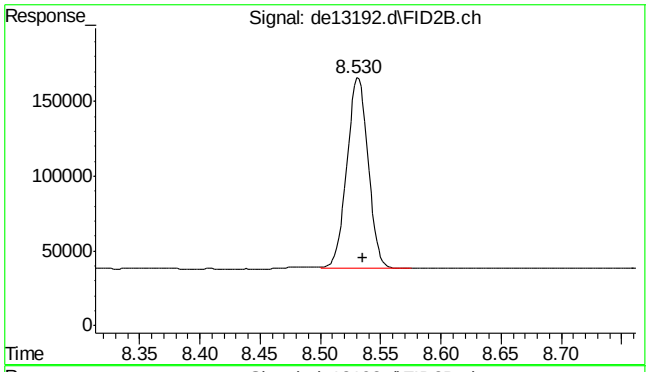
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.4.2

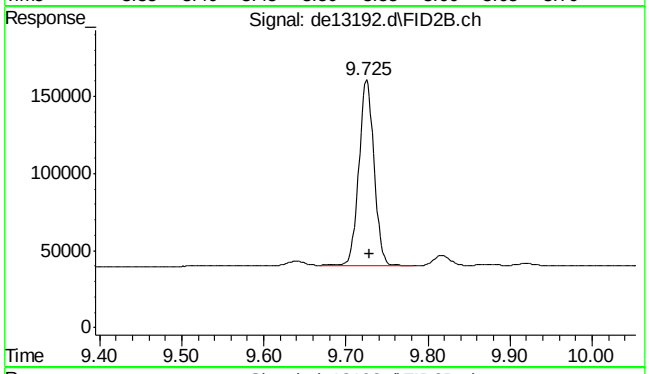
9

SGS ACCUTEST MC46340



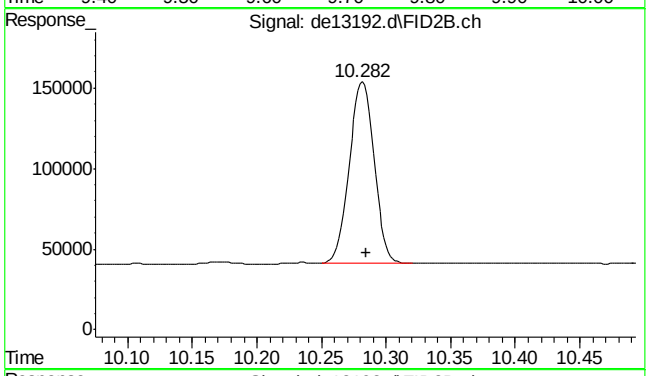
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



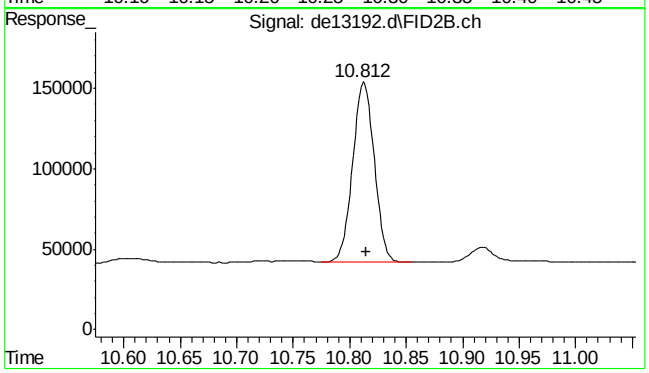
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



#33 c-19

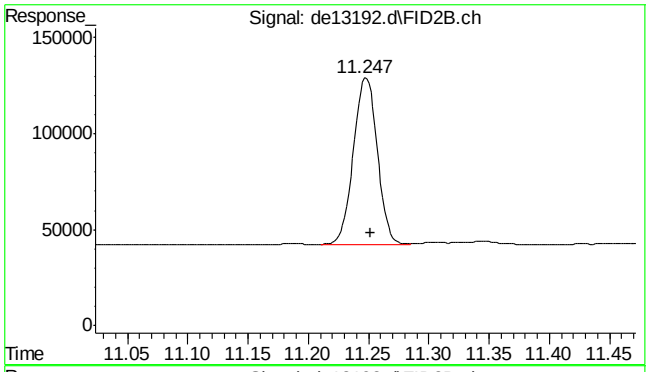
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



#34 c-20

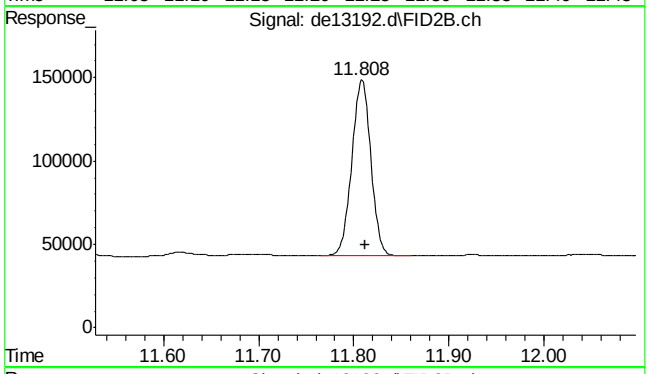
R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

SGS ACCUTEST MC46340



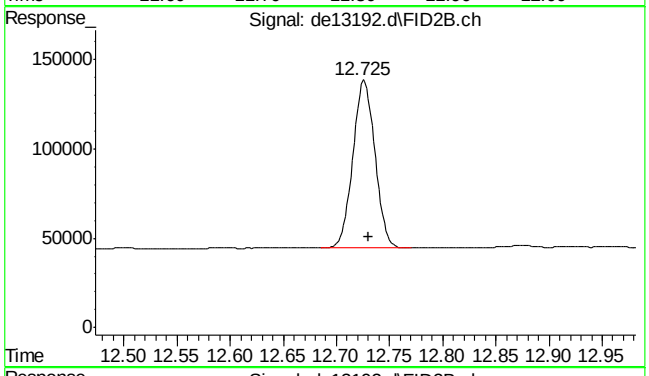
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



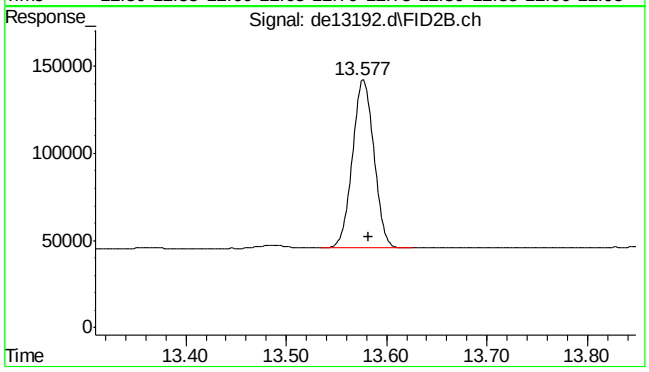
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

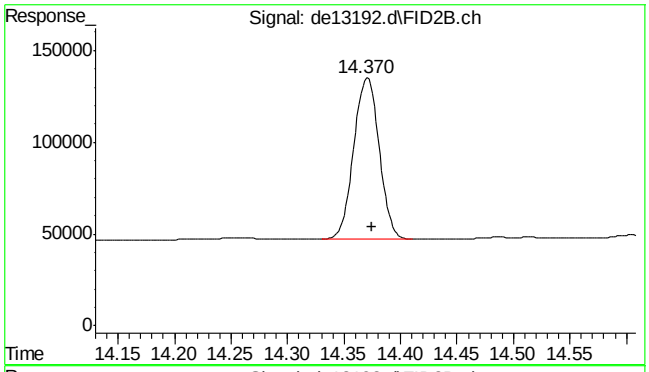
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

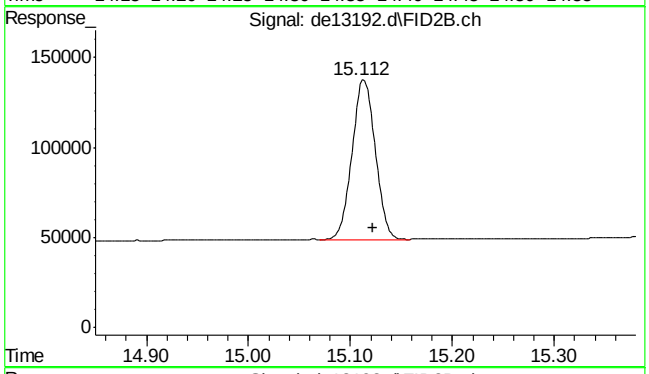
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC46340



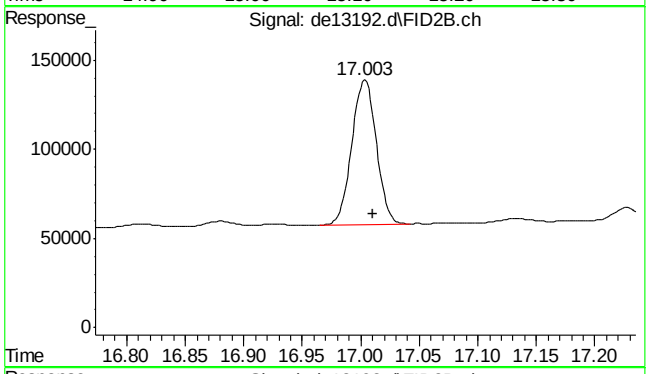
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



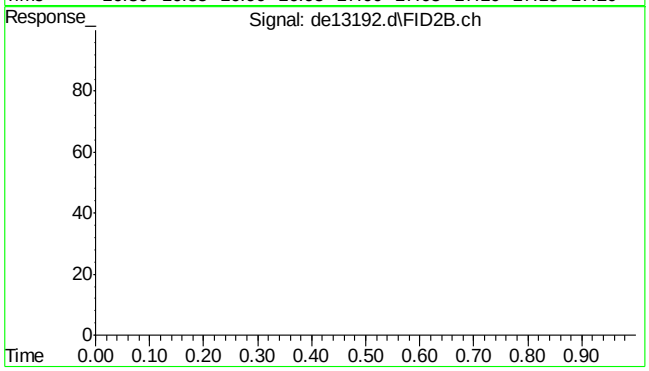
#40 c-30

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



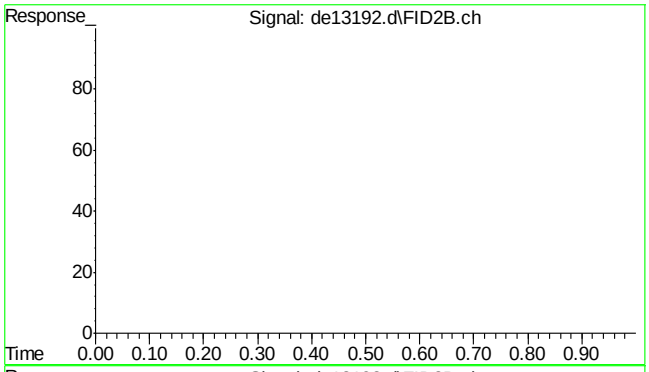
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.2

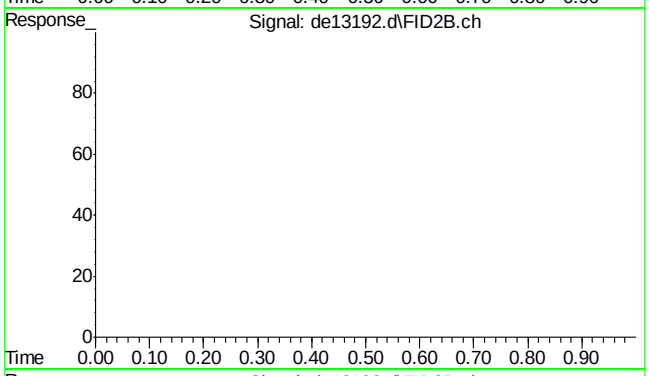
9

SGS ACCUTEST MC46340



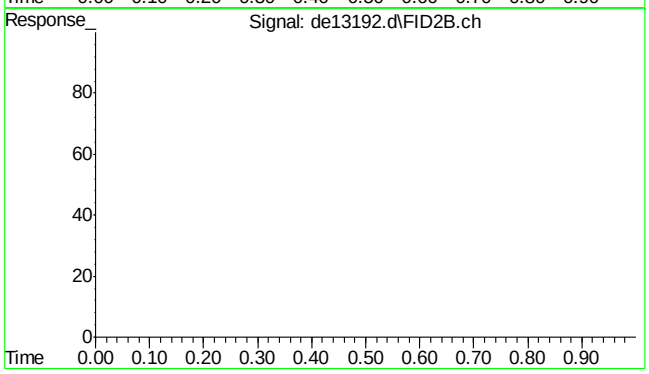
#43 bht

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.

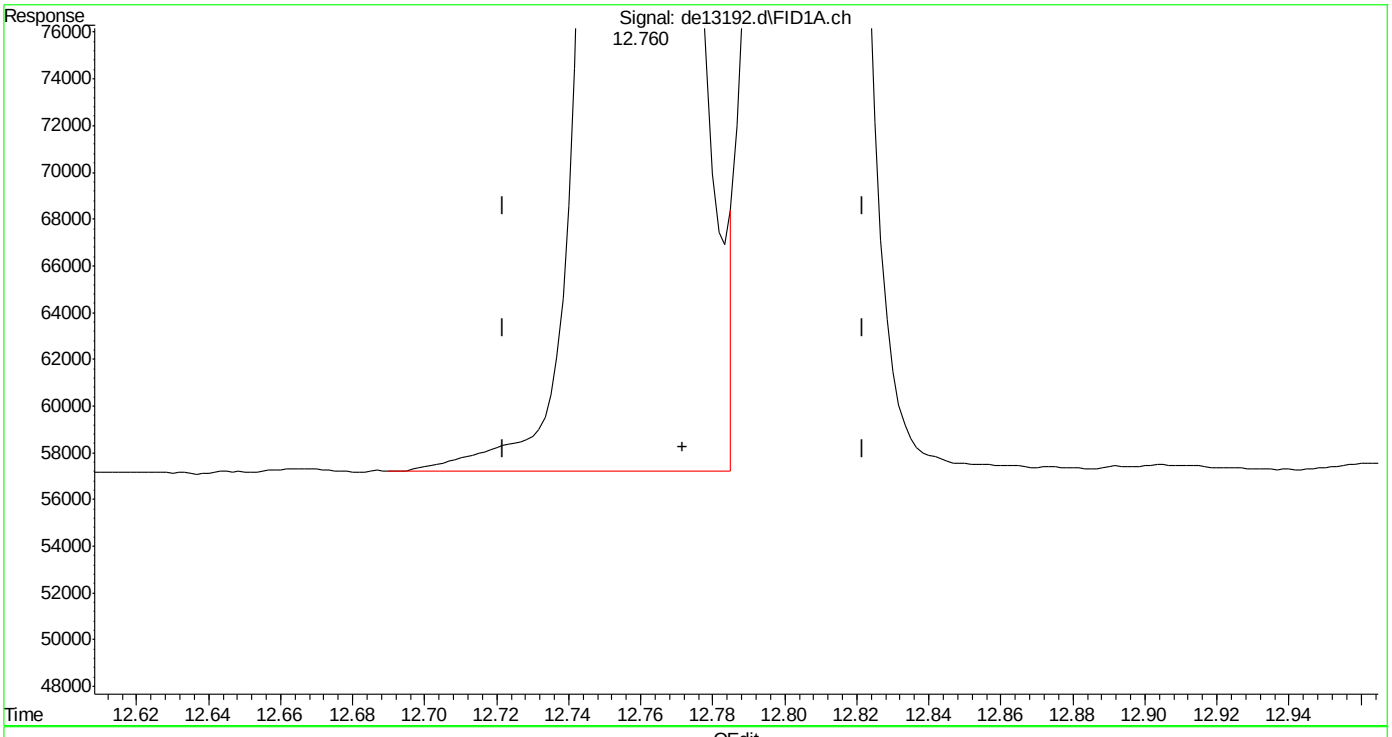
SGS ACCUTEST MC46340

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

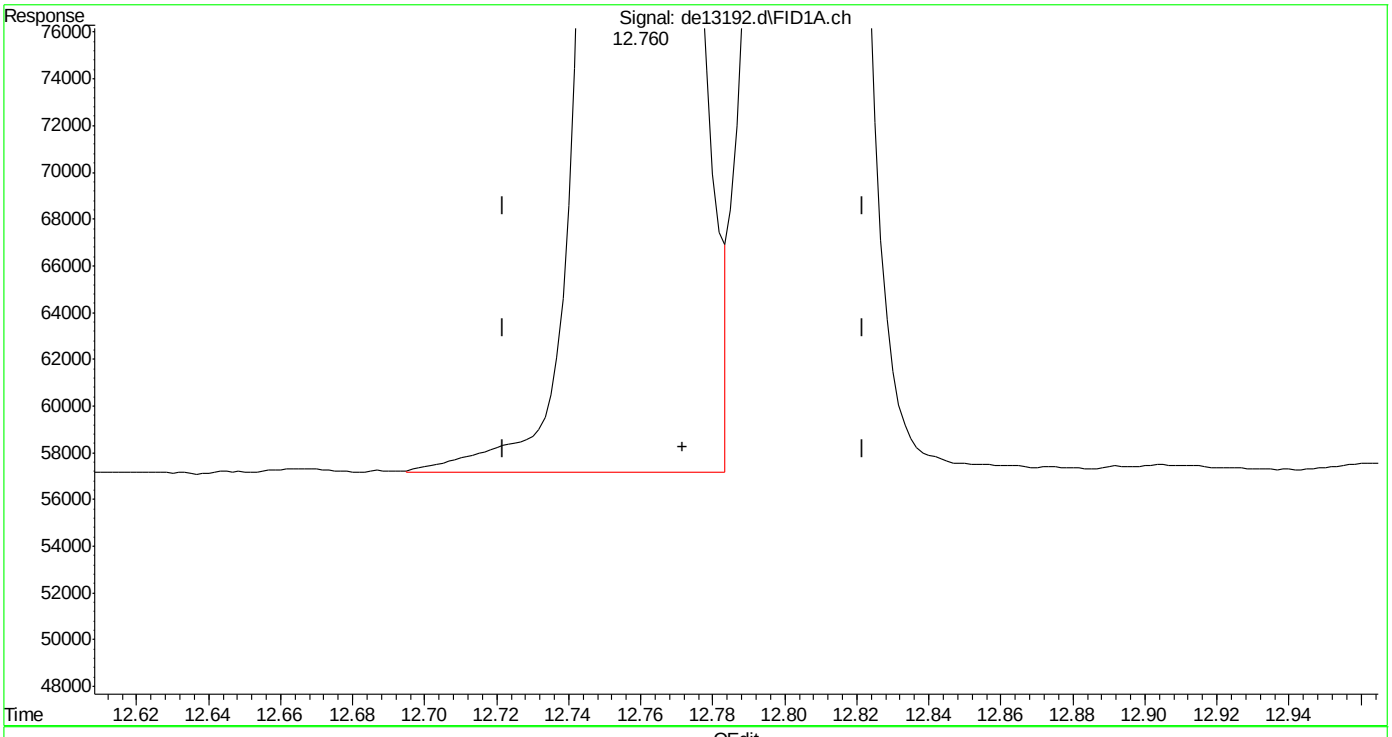
SGS ACCUTEST MC46340

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

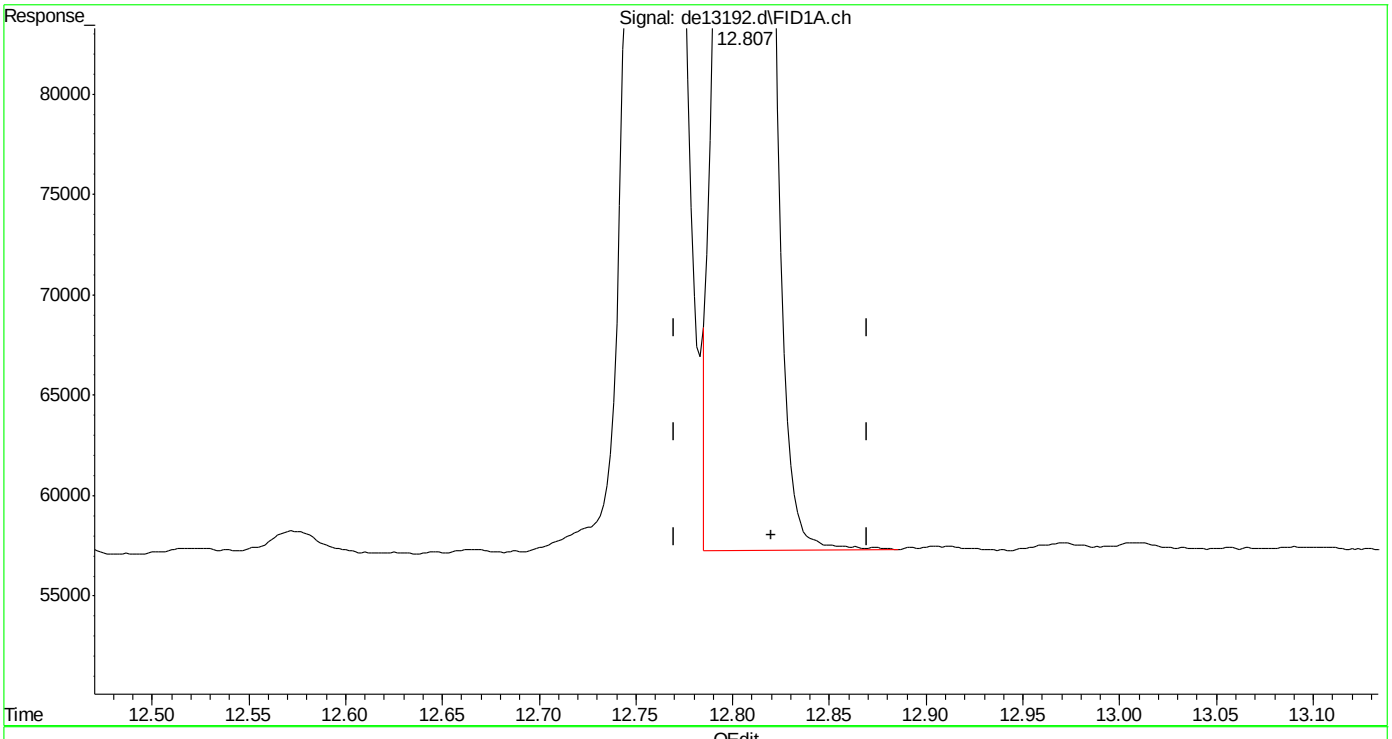
(+) = Expected Retention Time

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

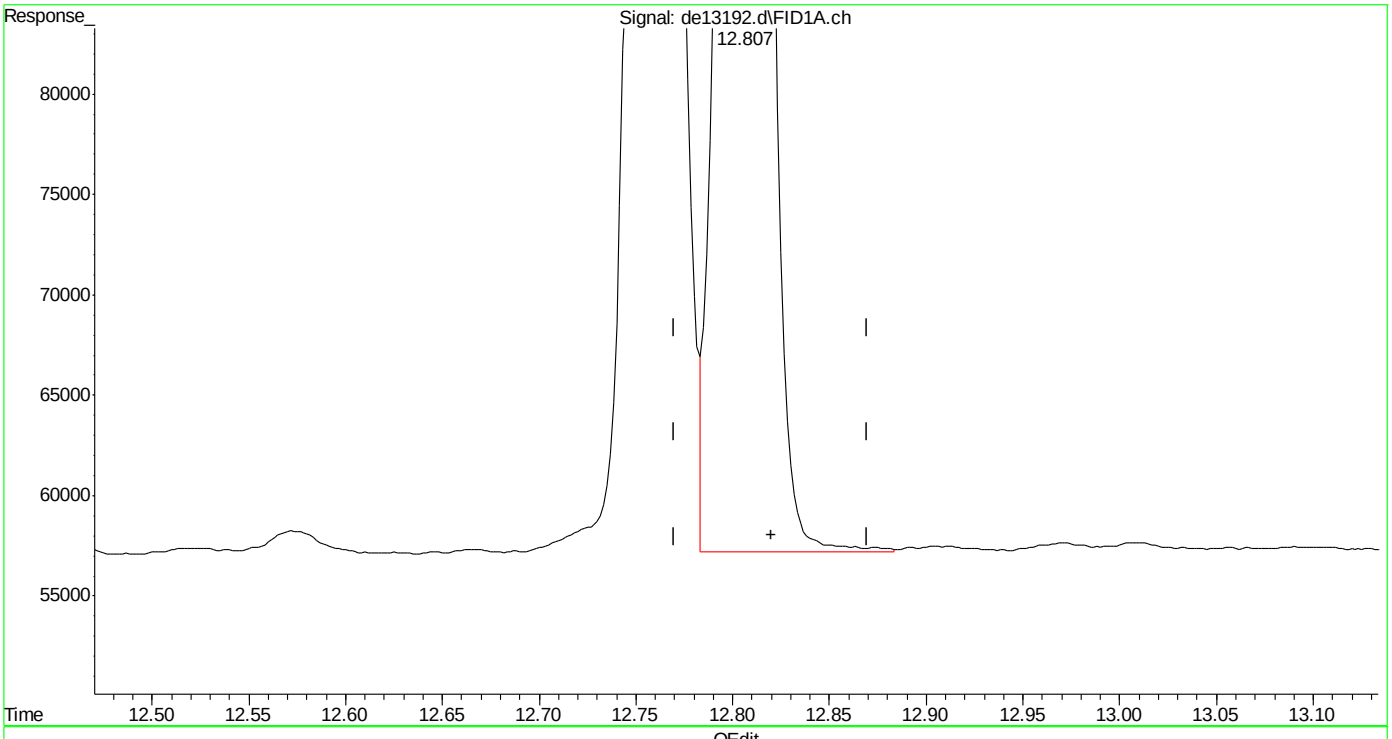
EPH160204M.M Fri Feb 05 10:39:49 2016

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

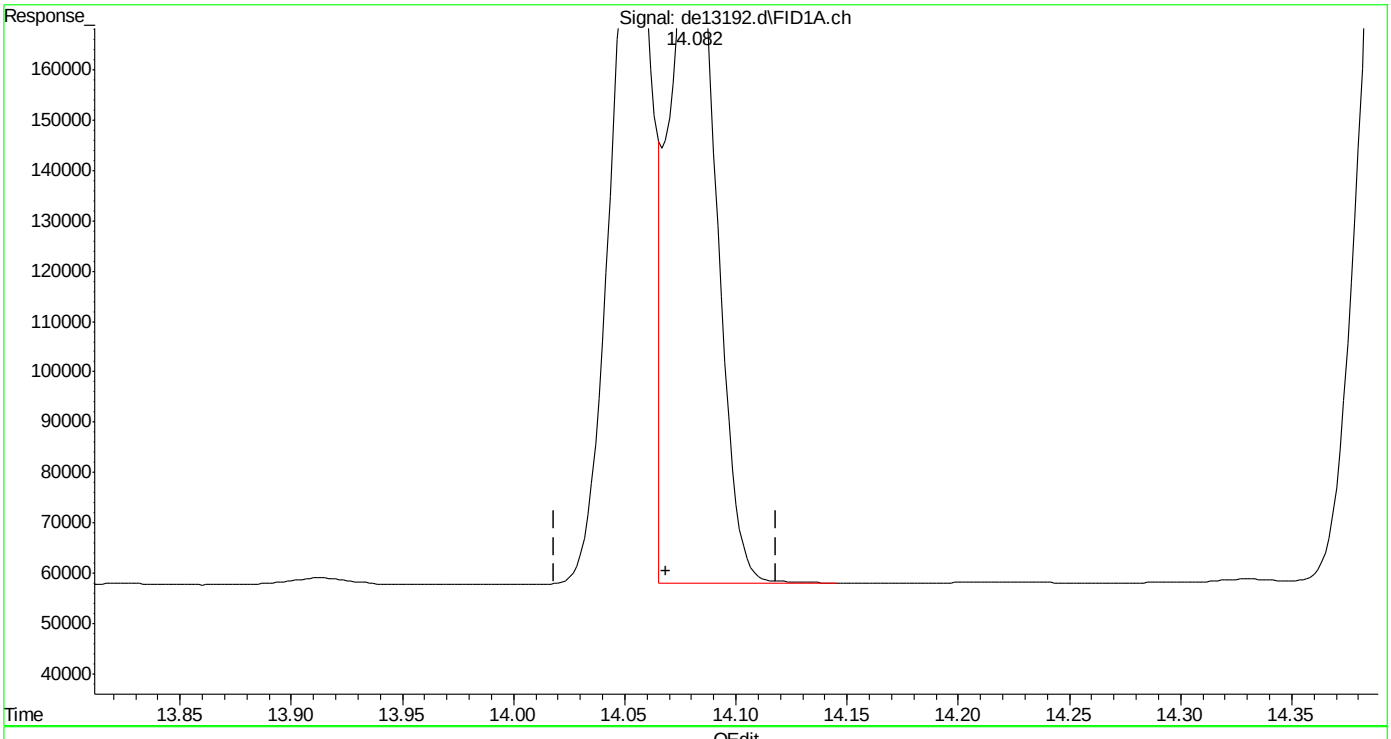
SGS ACCUTEST MC46340

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

EPH160204M.M Fri Feb 05 10:40:23 2016

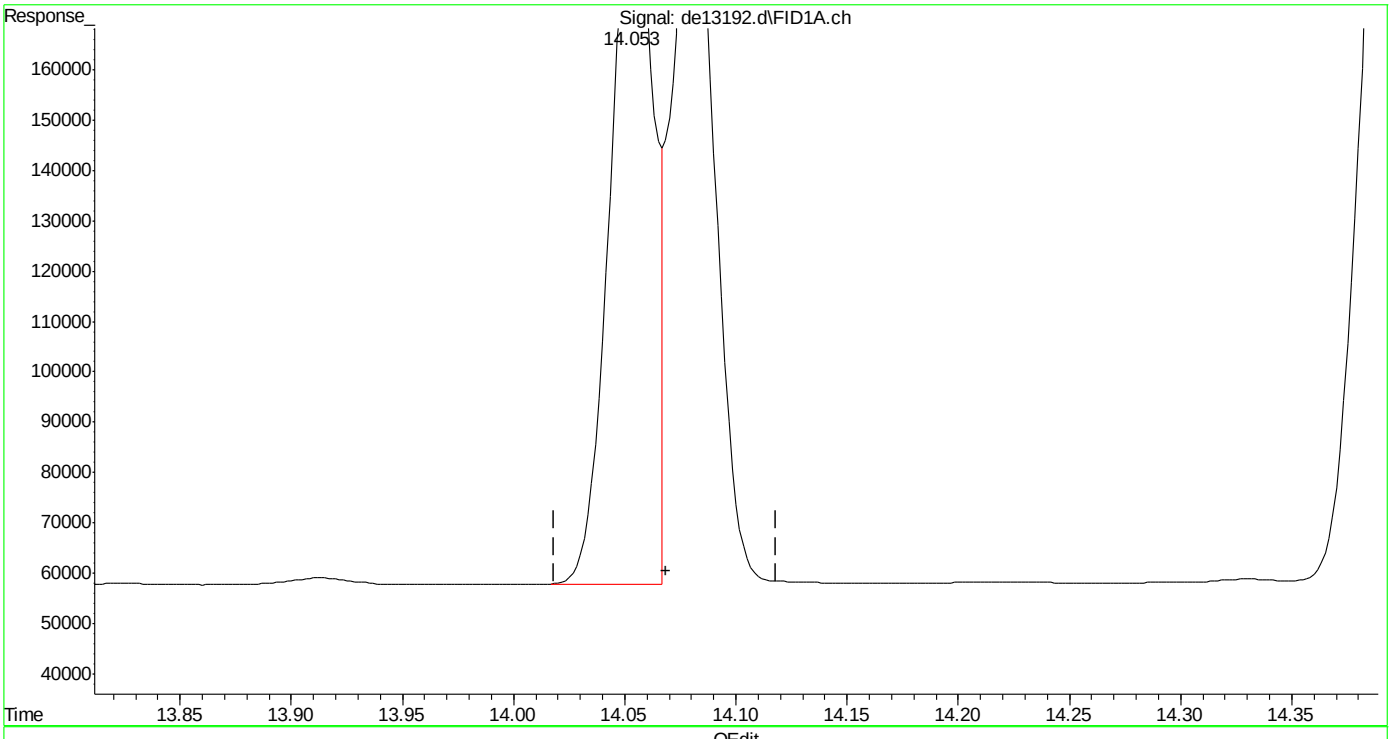
SGS ACCUTEST MC46340

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

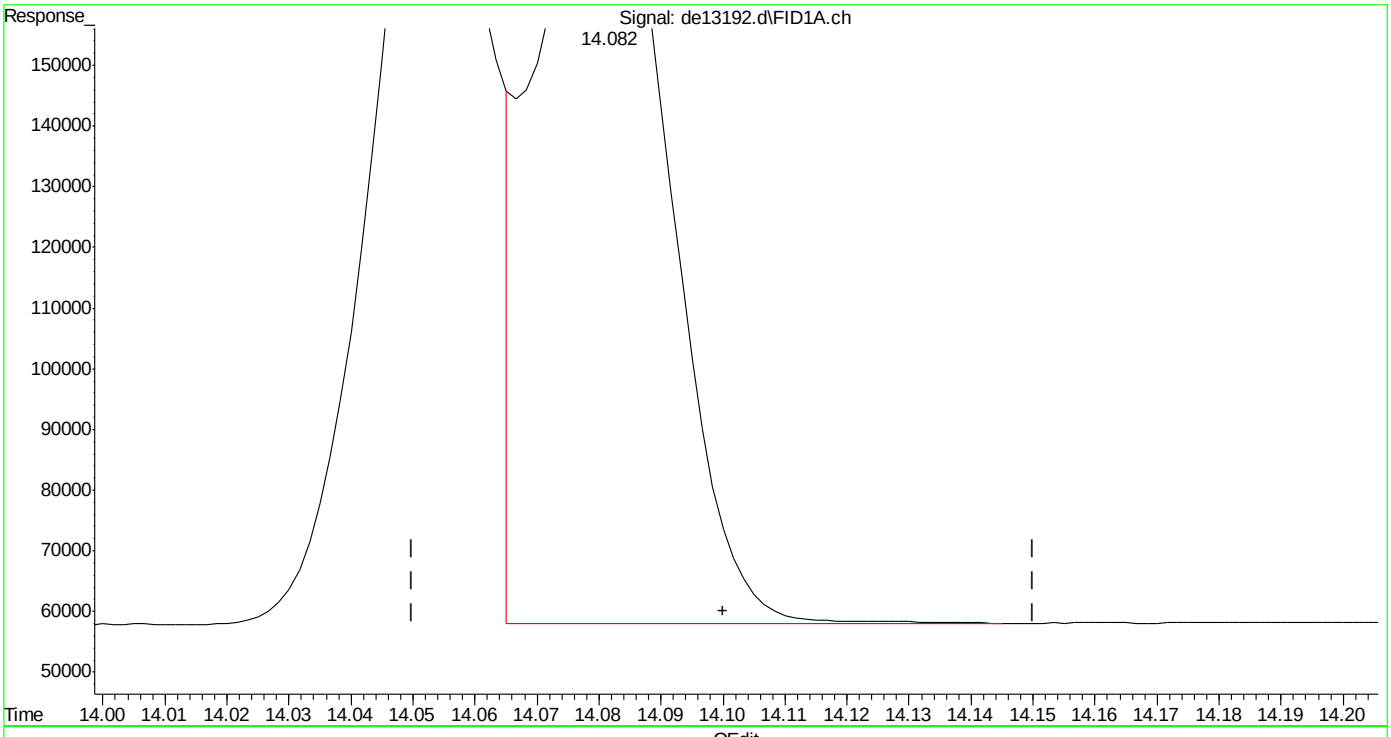
(+) = Expected Retention Time

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

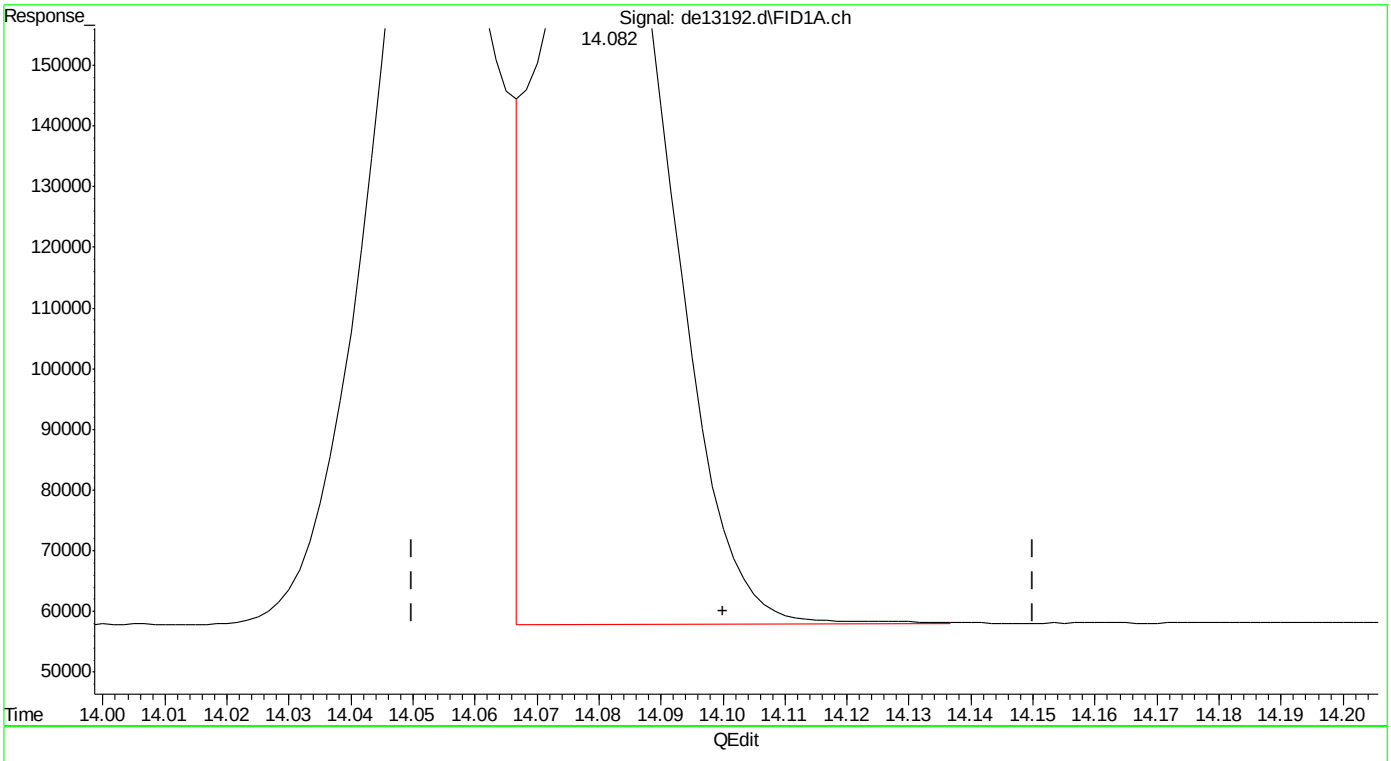
(+) = Expected Retention Time

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

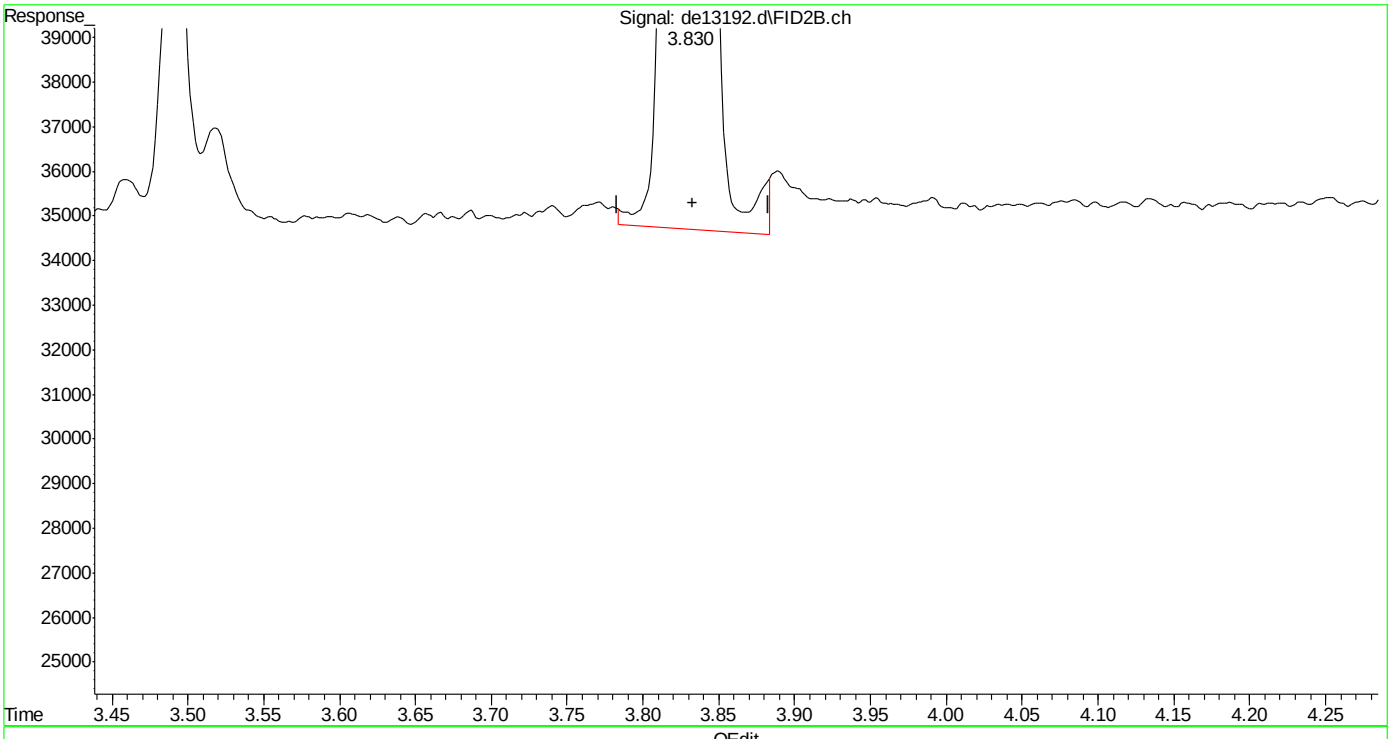
(+) = Expected Retention Time

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

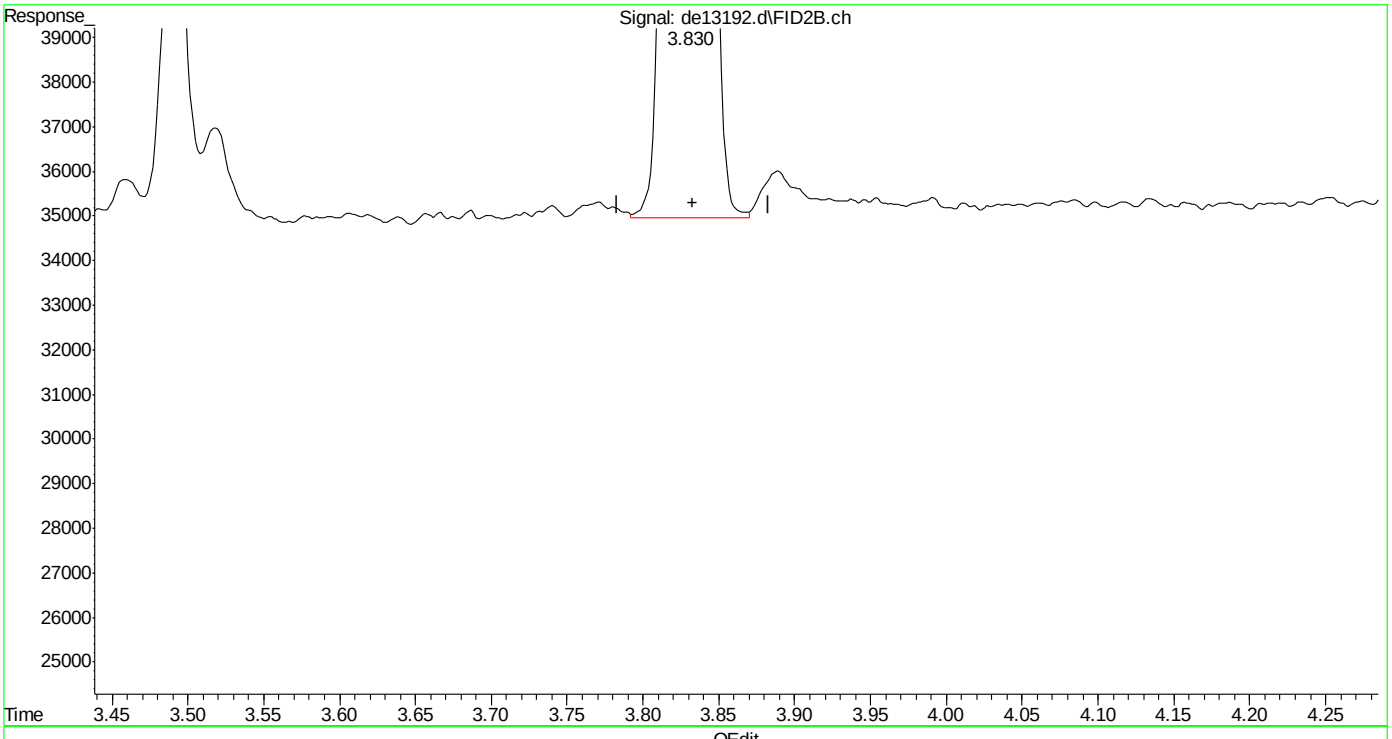
SGS ACCUTEST MC46340

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

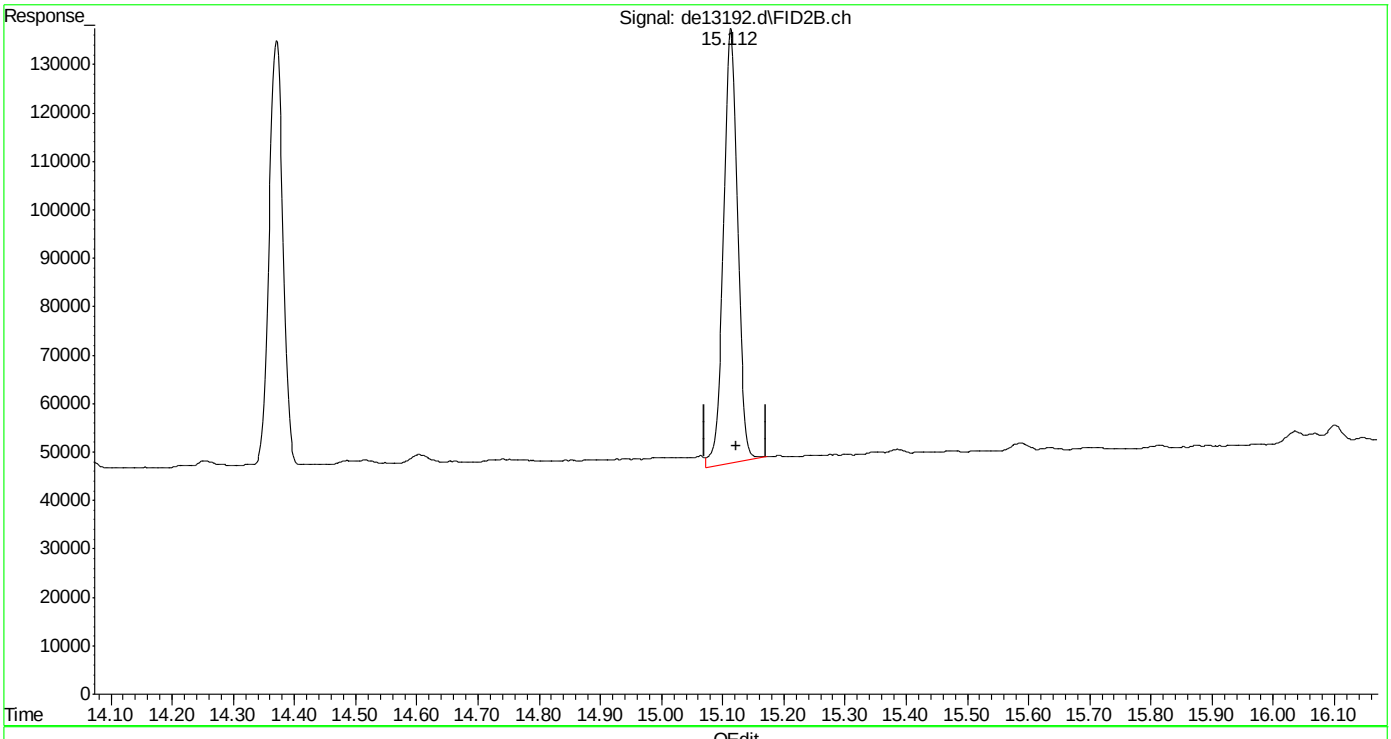
(+) = Expected Retention Time

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

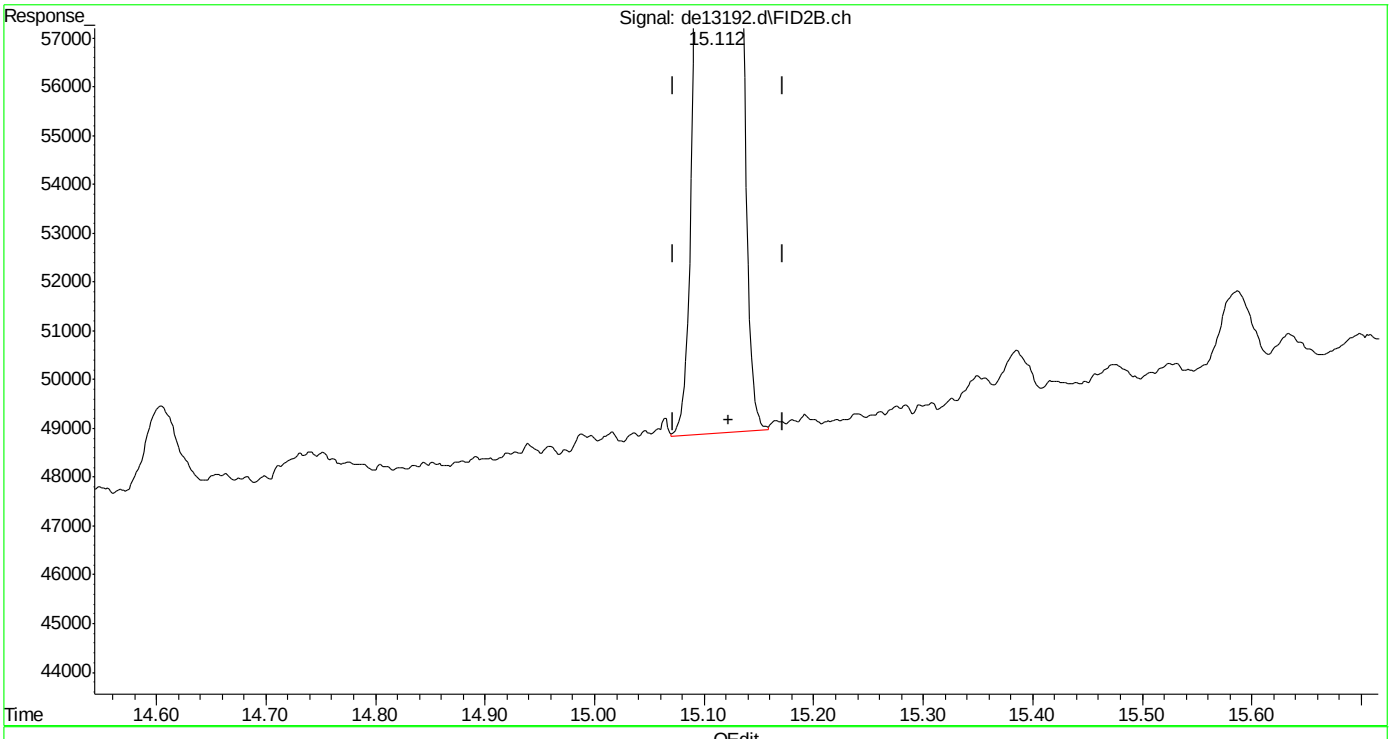
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:41:23 2016

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

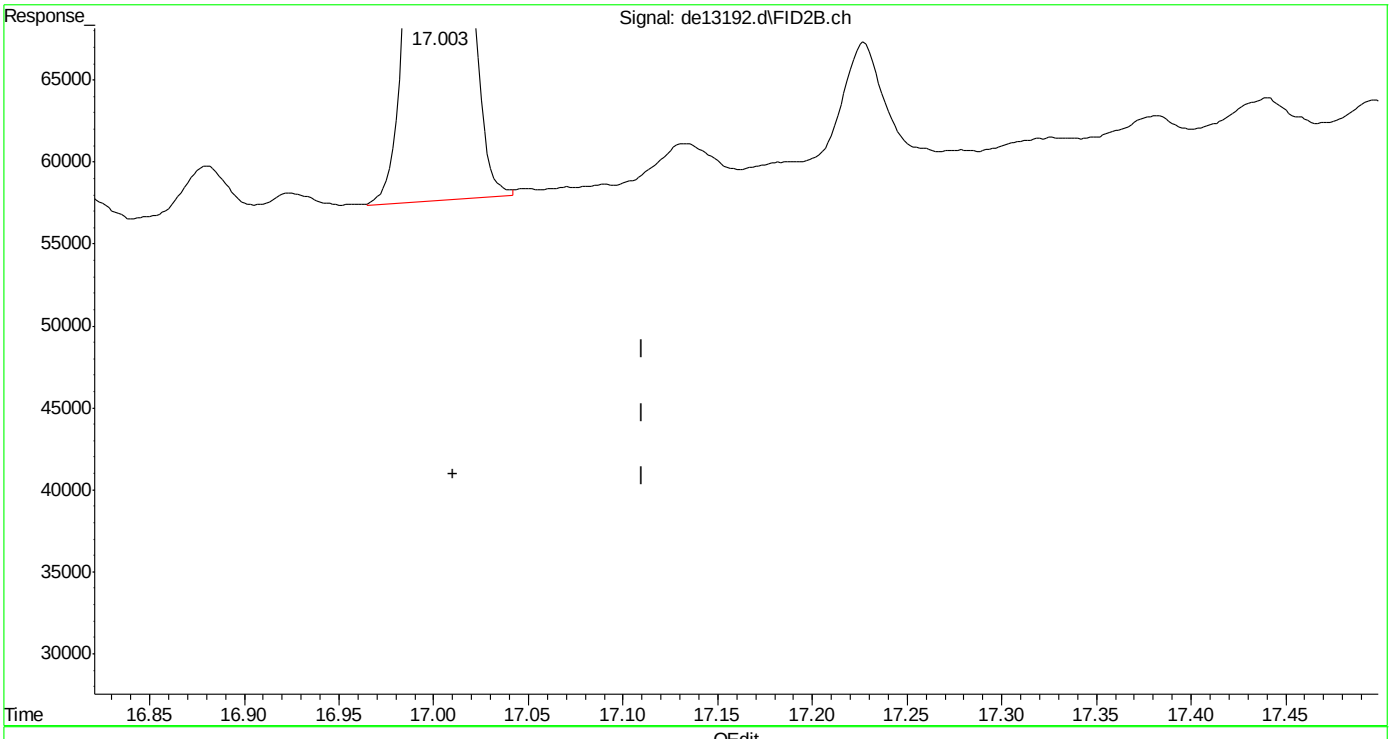
SGS ACCUTEST MC46340

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 Page: 1

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.

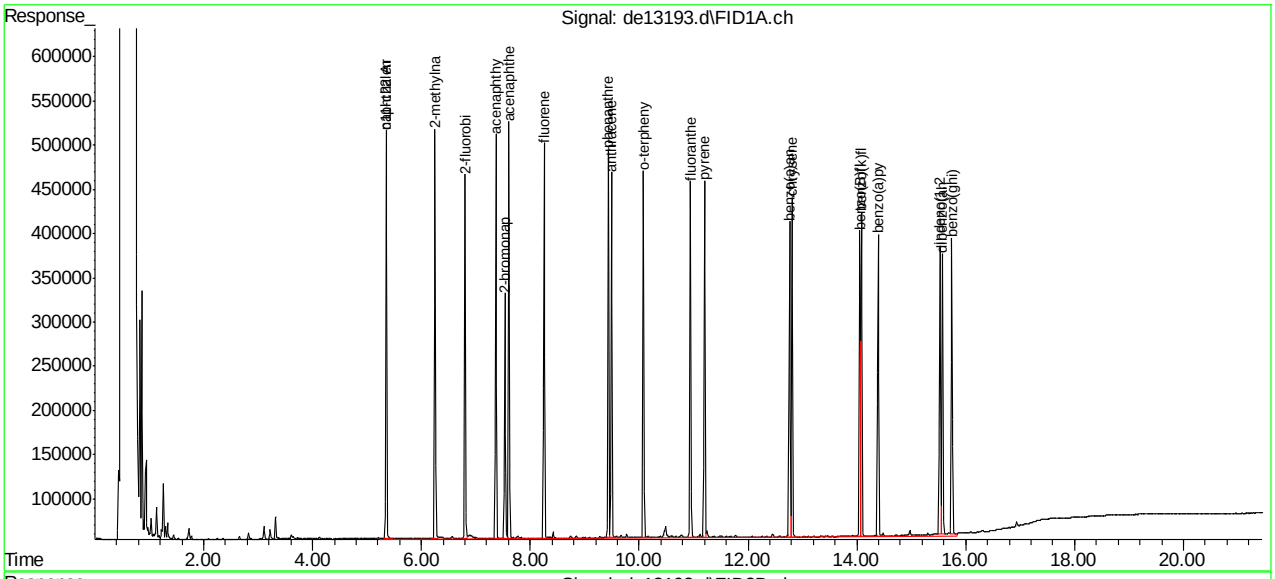
SGS ACCUTEST MC46340

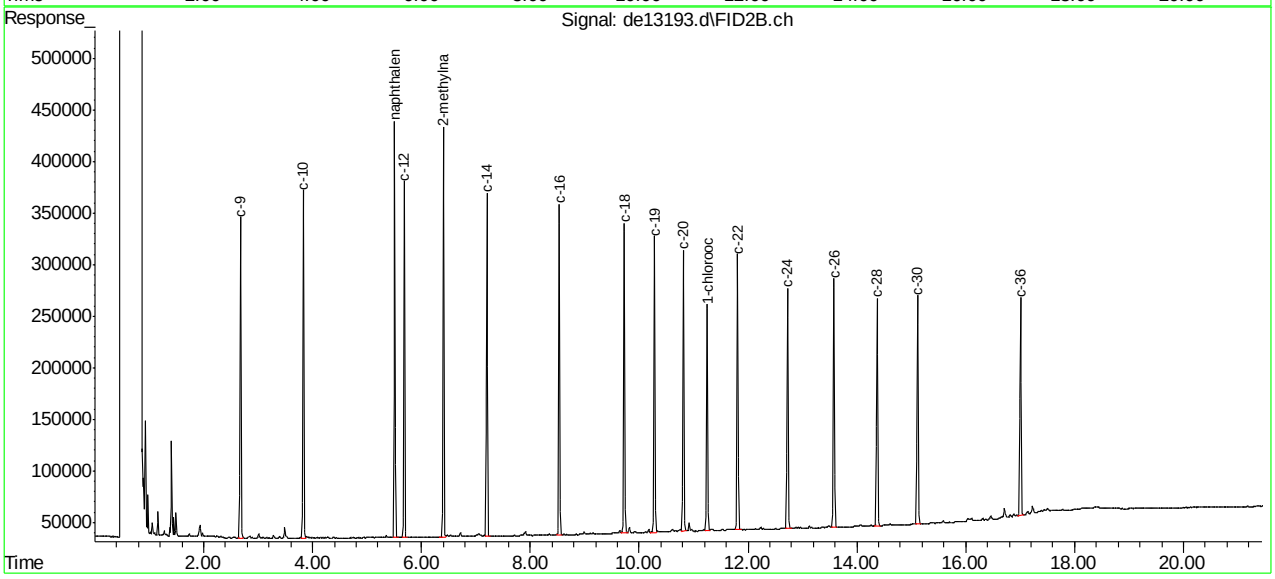
Quantitation Report (QT Reviewed)

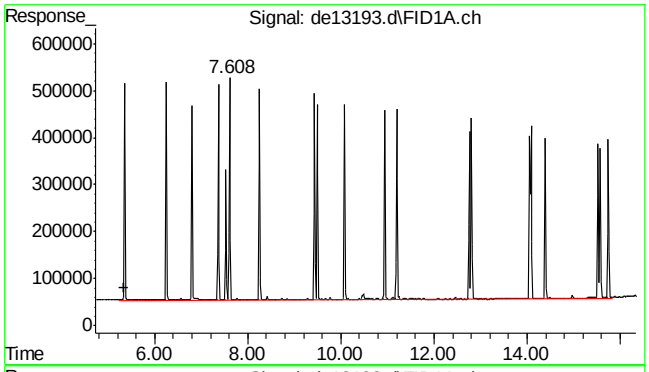
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

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 :

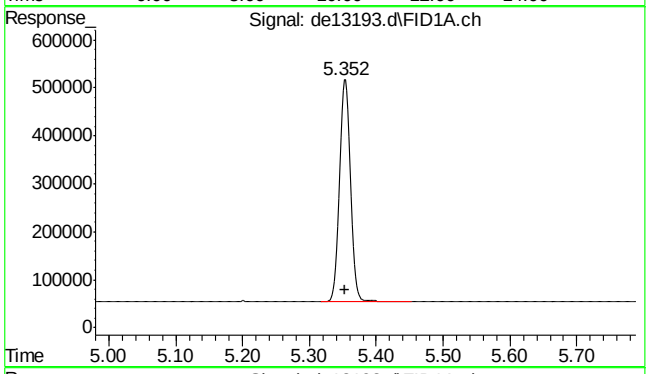






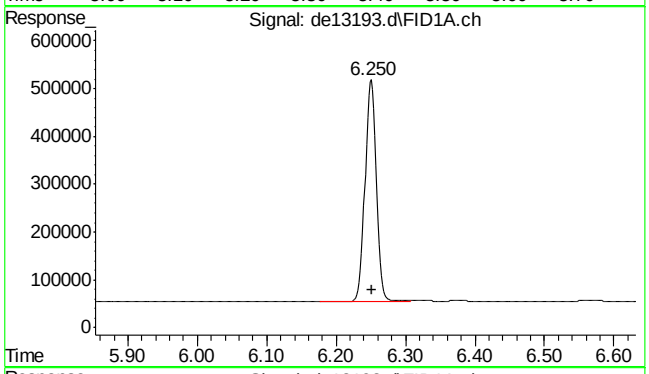
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



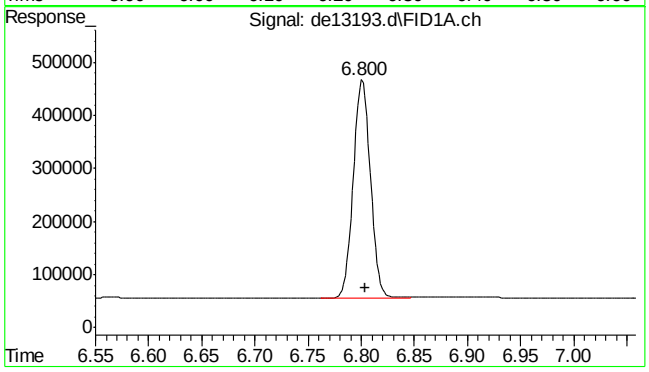
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

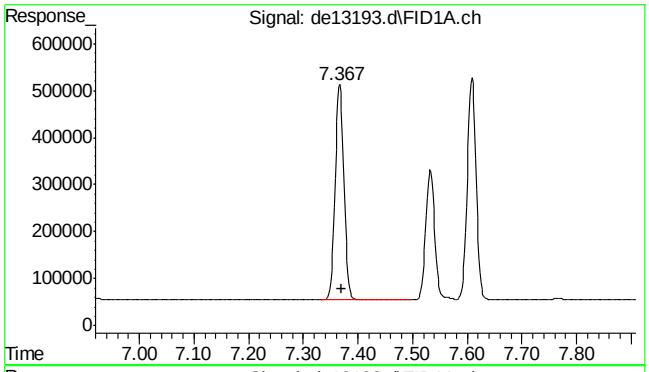
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



#4 2-fluorobiphenyl

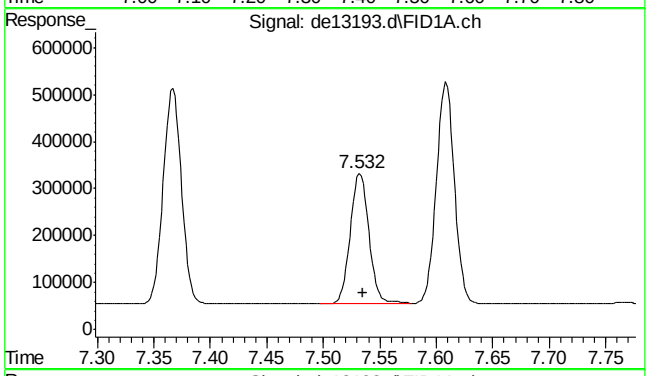
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

SGS ACCUTEST MC46340



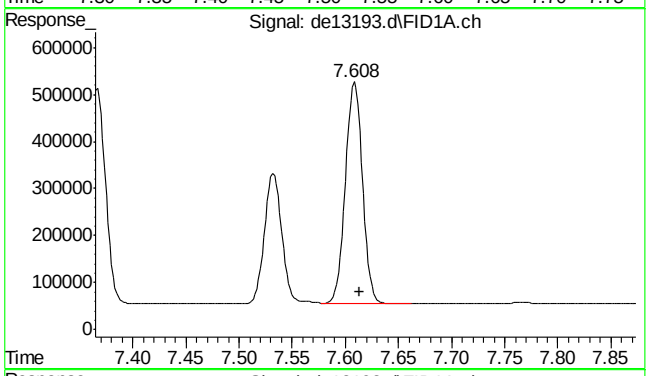
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



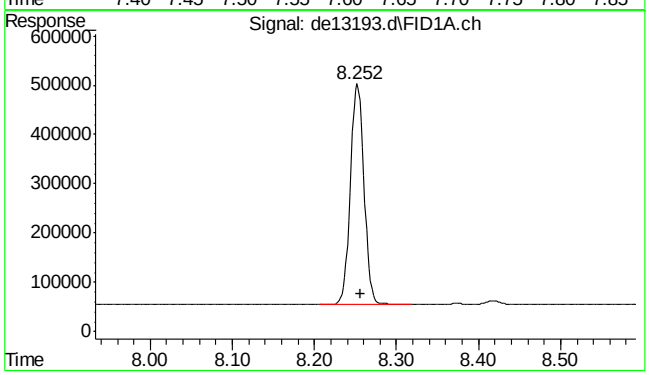
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 318410
Conc: 4.85 µg/ml



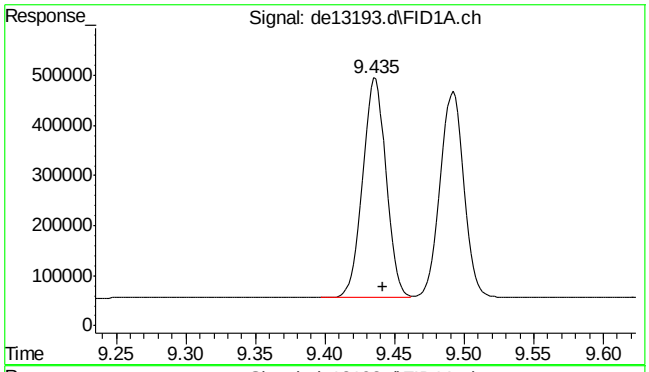
#7 acenaphthene

R.T.: 7.608 min
Delta R.T.: -0.005 min
Response: 524765
Conc: 4.86 µg/ml



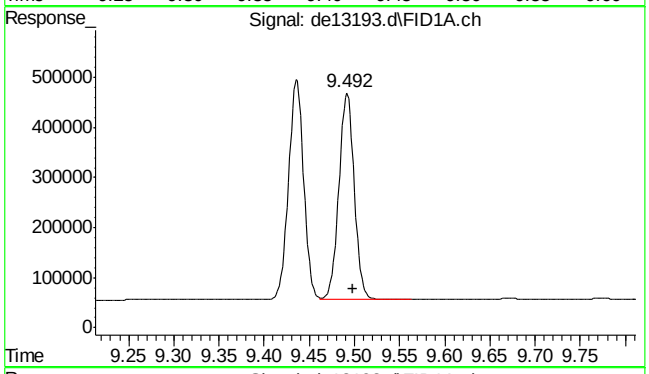
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml



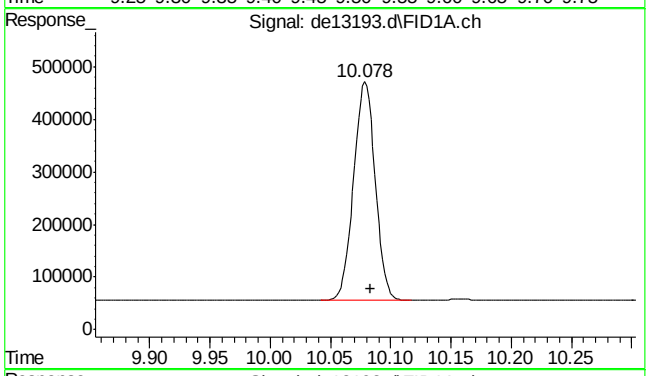
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



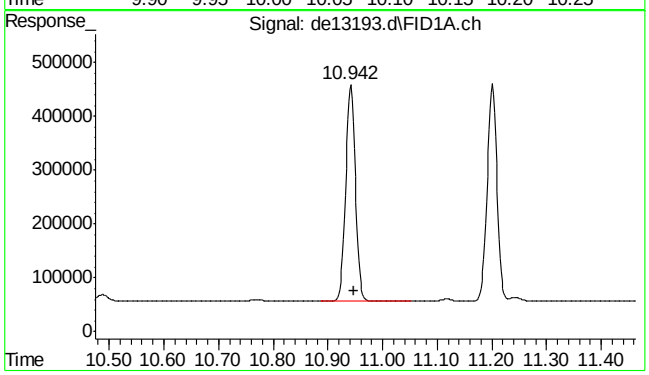
#10 anthracene

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

9.4.3

9

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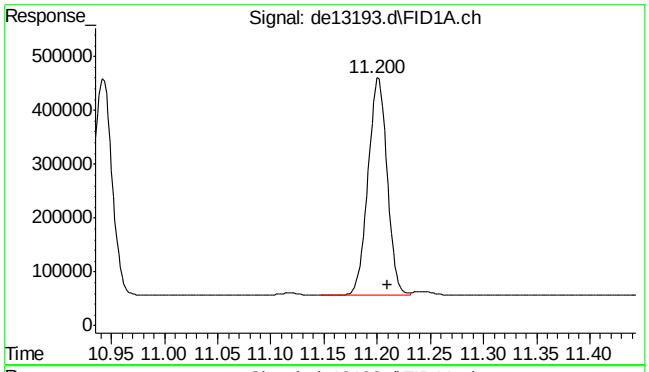
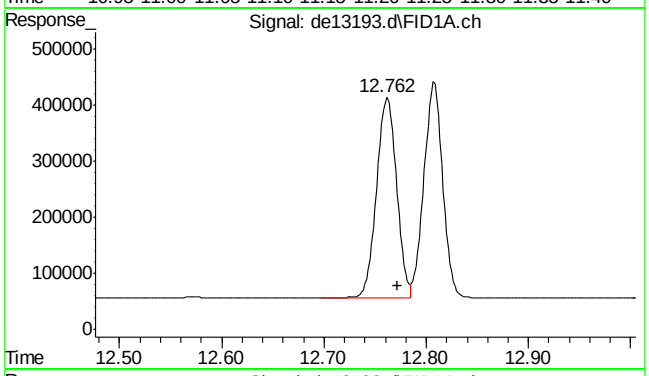


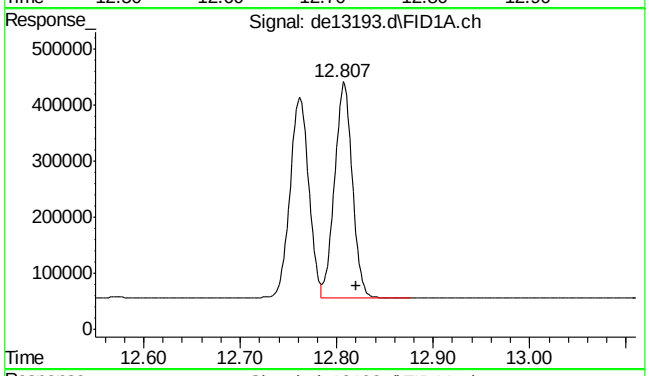
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



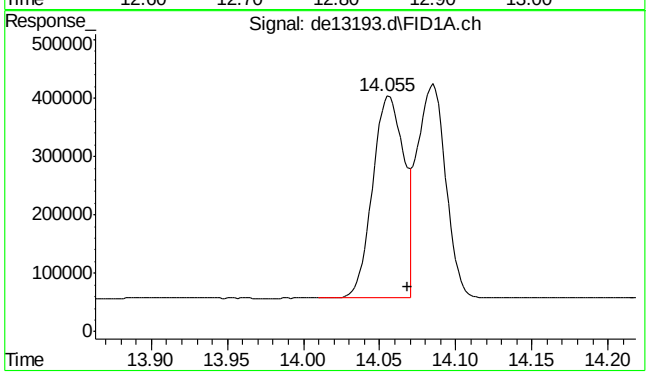
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

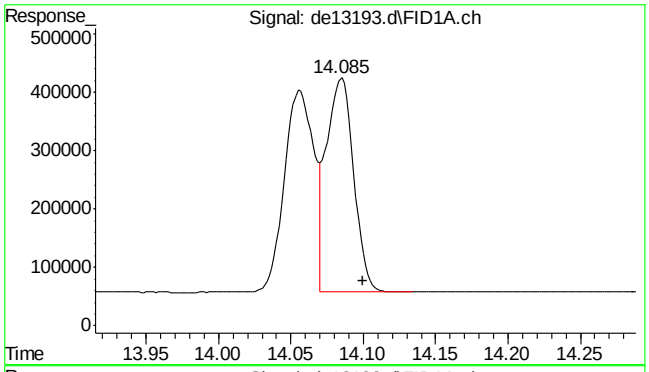
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

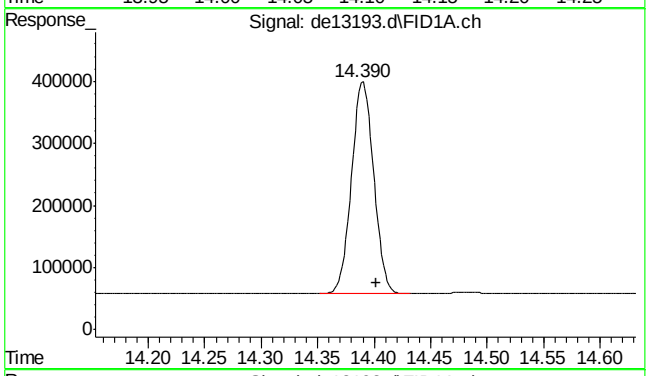
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC46340



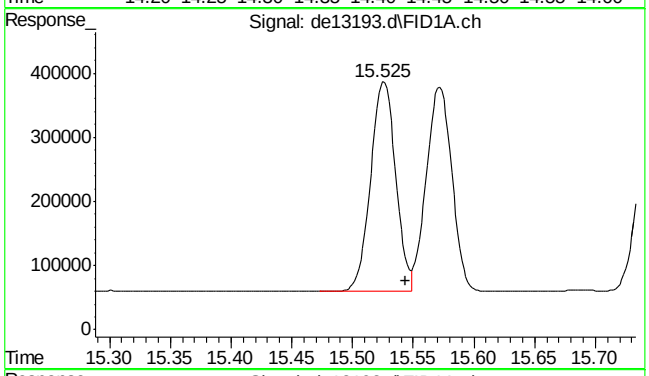
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



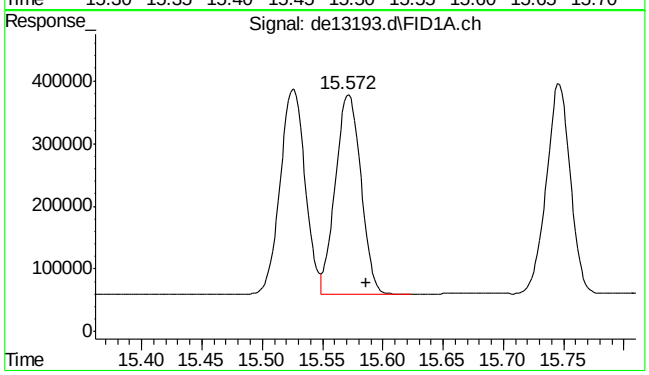
#18 benzo(a)pyrene

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



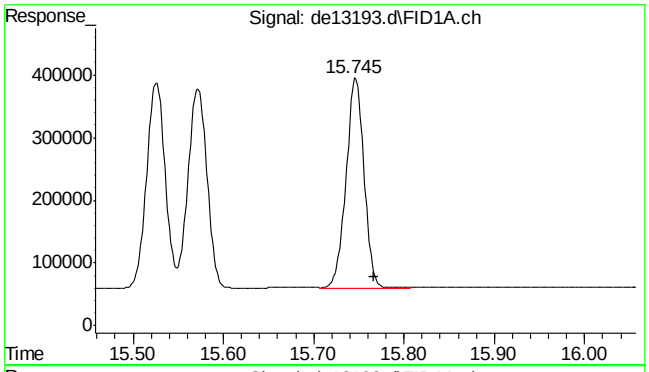
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.4.3

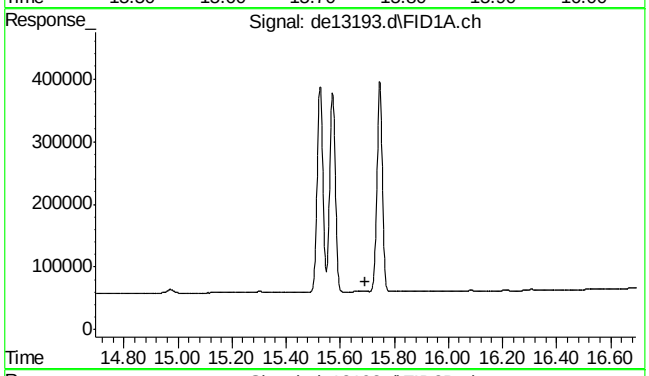
9

SGS ACCUTEST MC46340



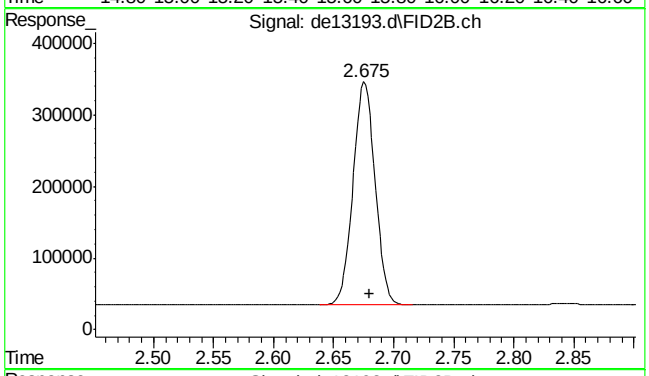
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



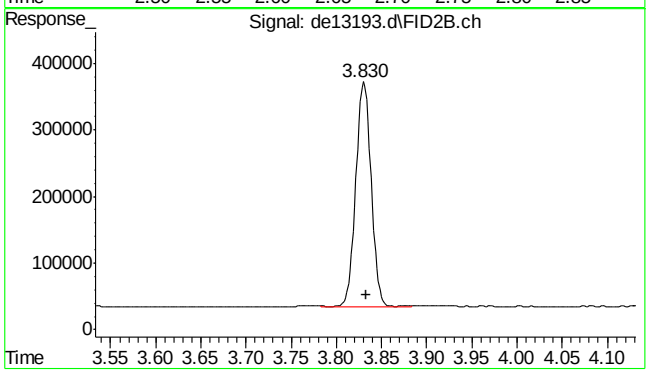
#22 bht

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

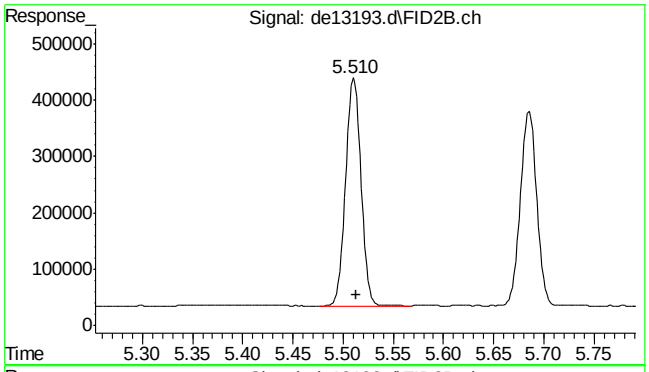


#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

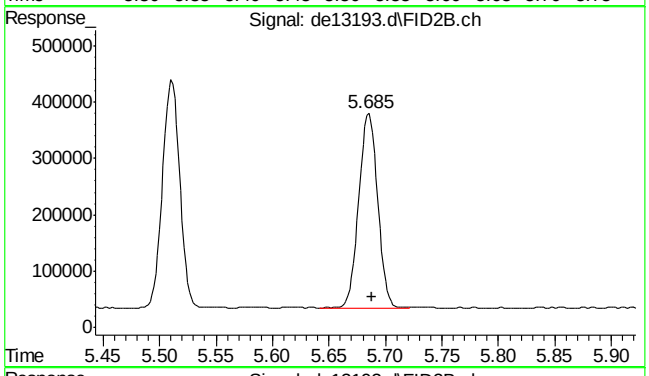
9.4.3
9

SGS ACCUTEST MC46340



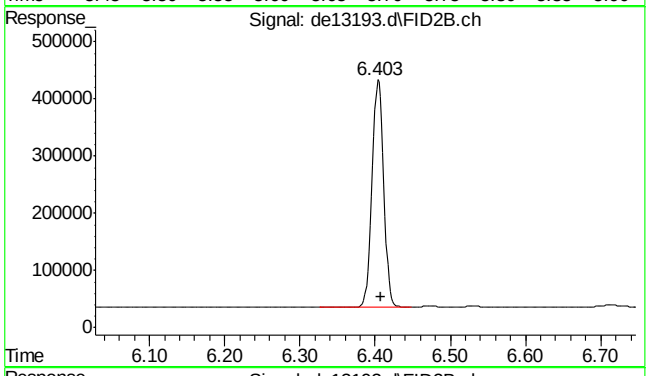
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



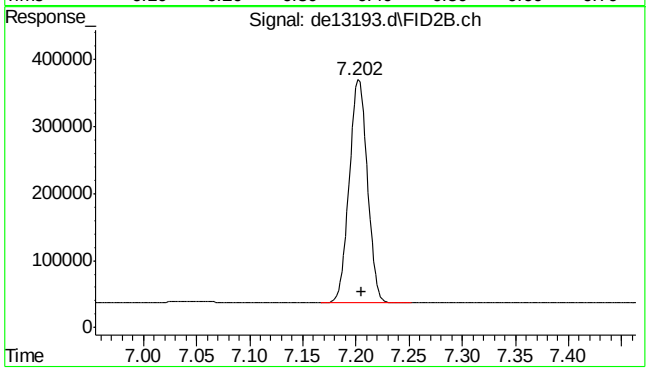
#28 c-12

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



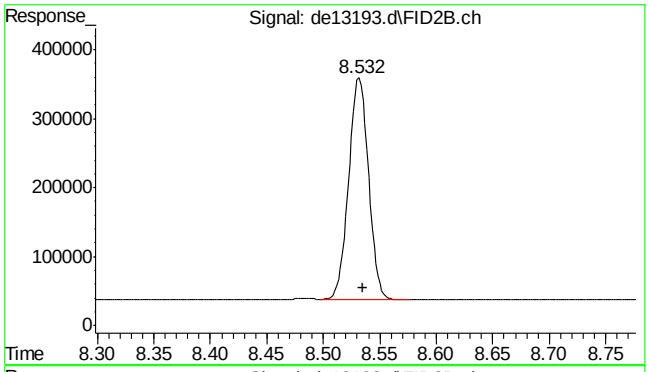
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

9.4.3

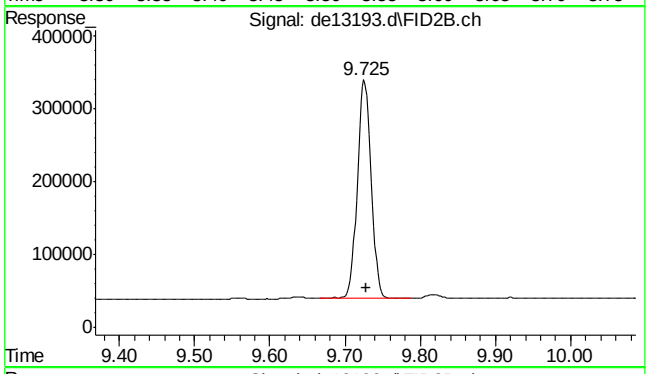
9

SGS ACCUTEST MC46340



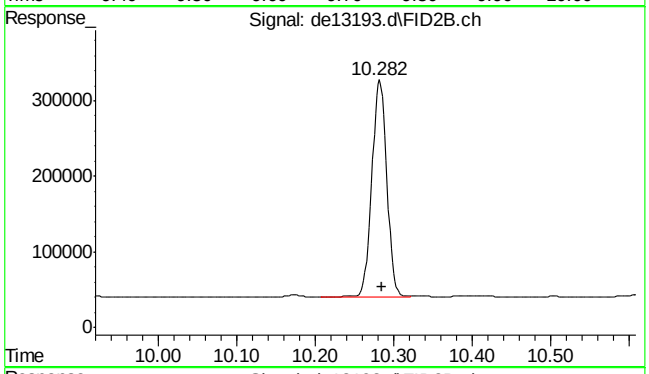
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



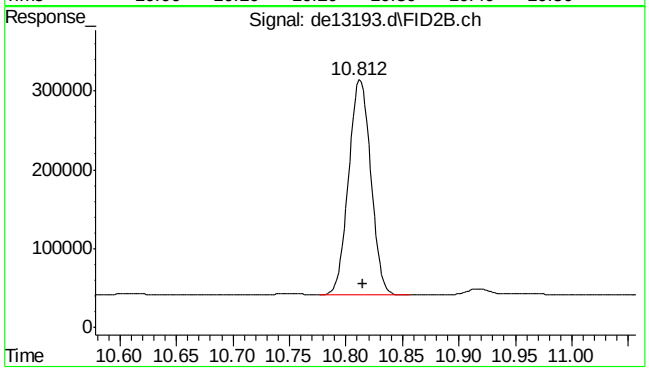
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 383929
Conc: 5.16 µg/ml



#33 c-19

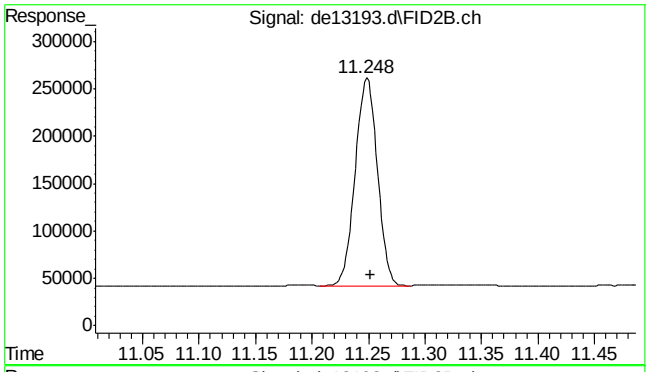
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 381074
Conc: 5.28 µg/ml



#34 c-20

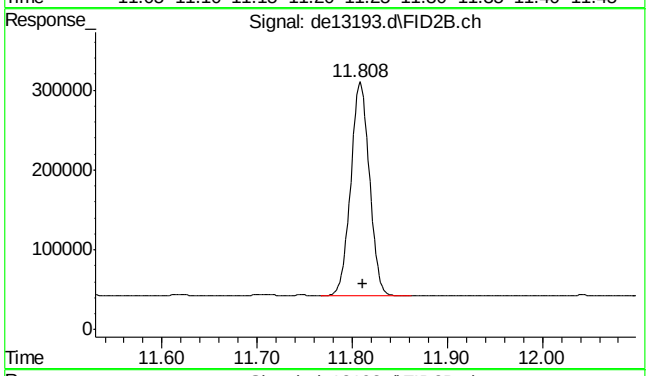
R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

SGS ACCUTEST MC46340



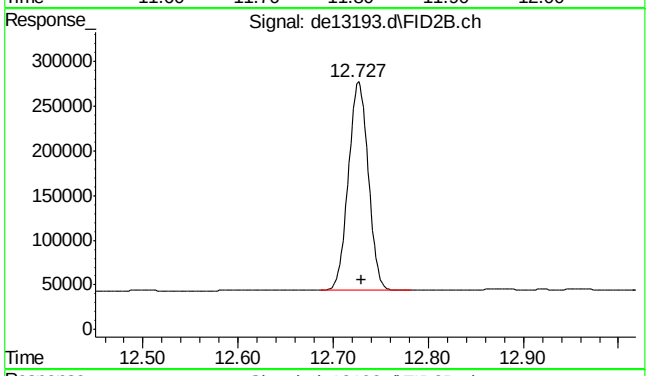
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



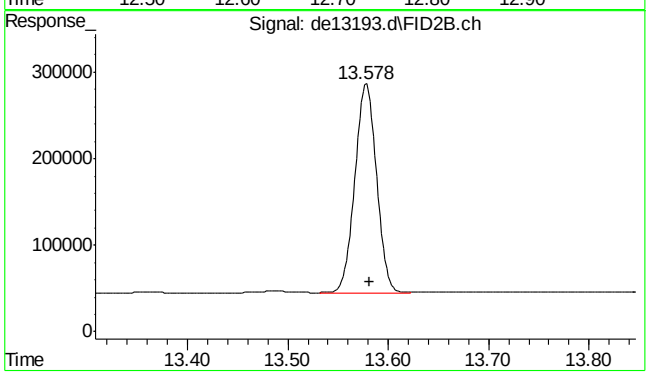
#36 c-22

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



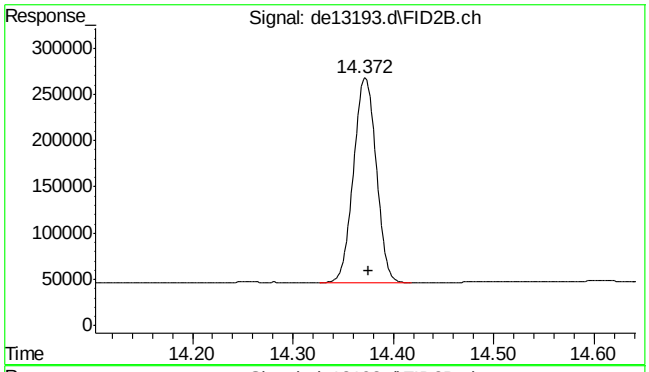
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml

9.4.3

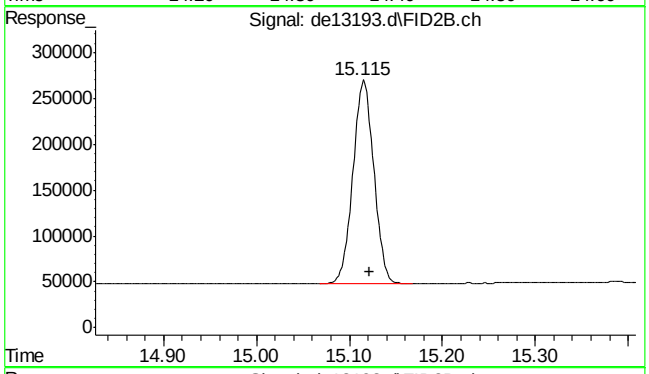
9

SGS ACCUTEST MC46340



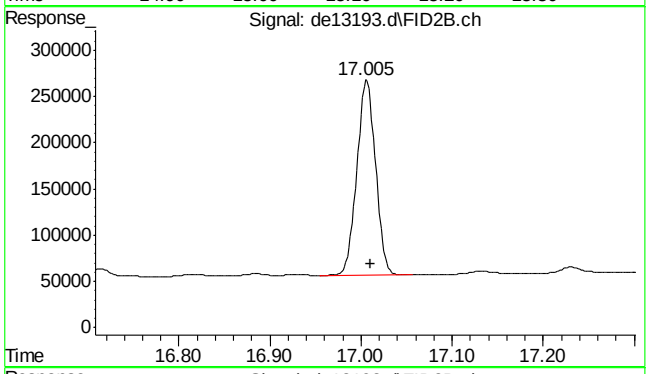
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



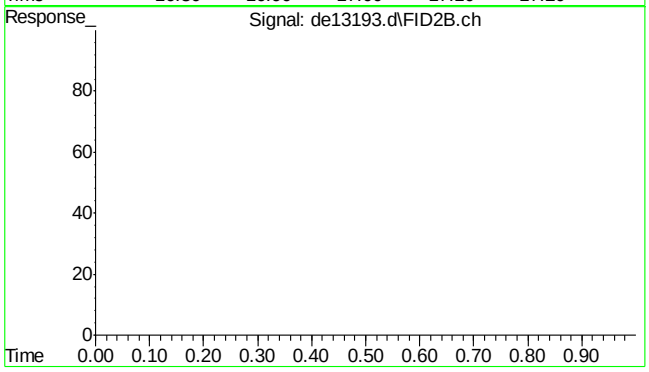
#40 c-30

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.

9.4.3

9

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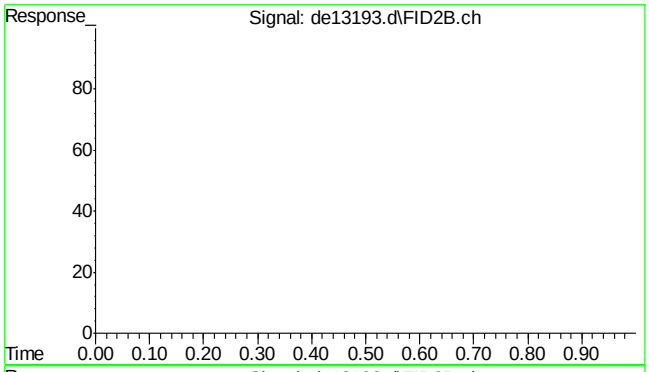
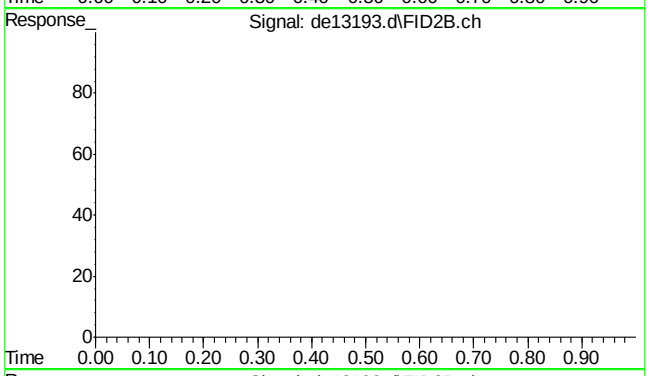


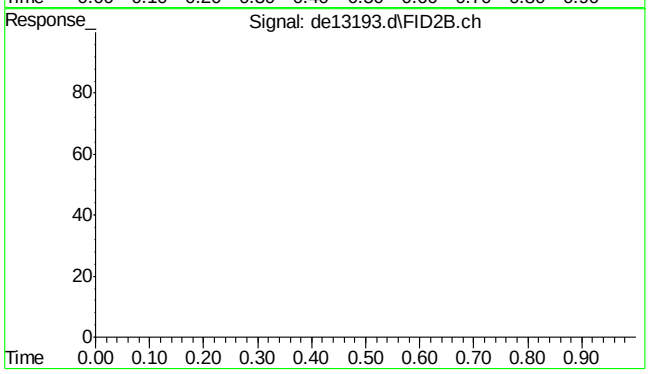
#43 bht

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.

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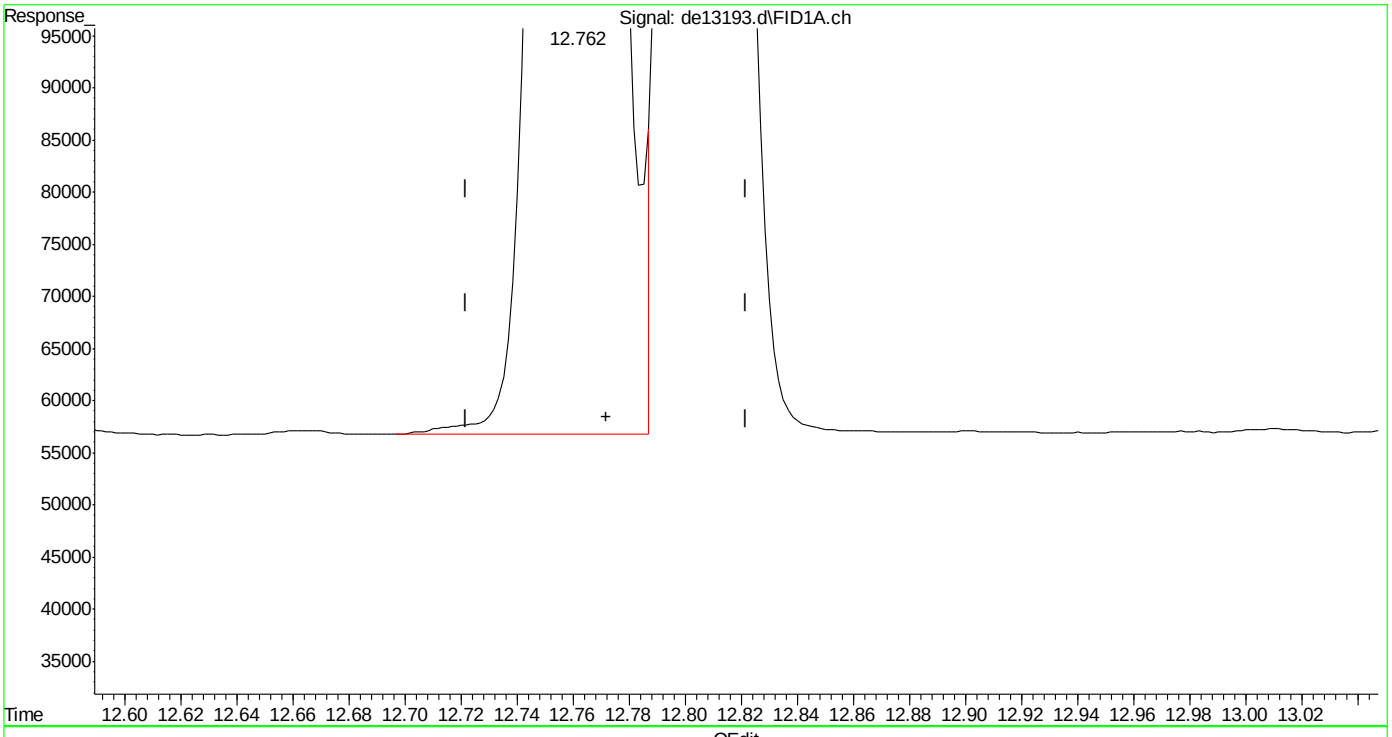
Quantitation Report (Qedit)

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

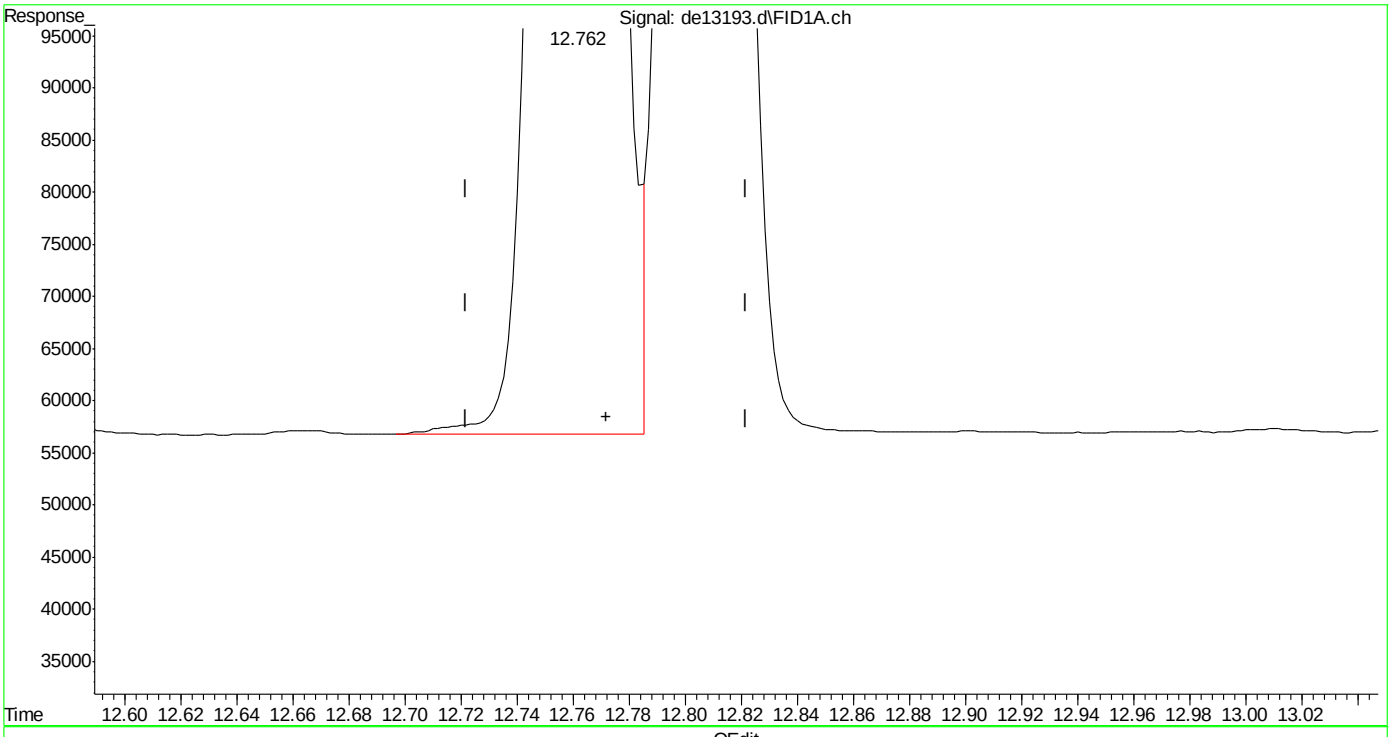
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:12 2016

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 :



(14) benzo(a)anthracene
12.762min 4.921 µg/ml m
response 484563

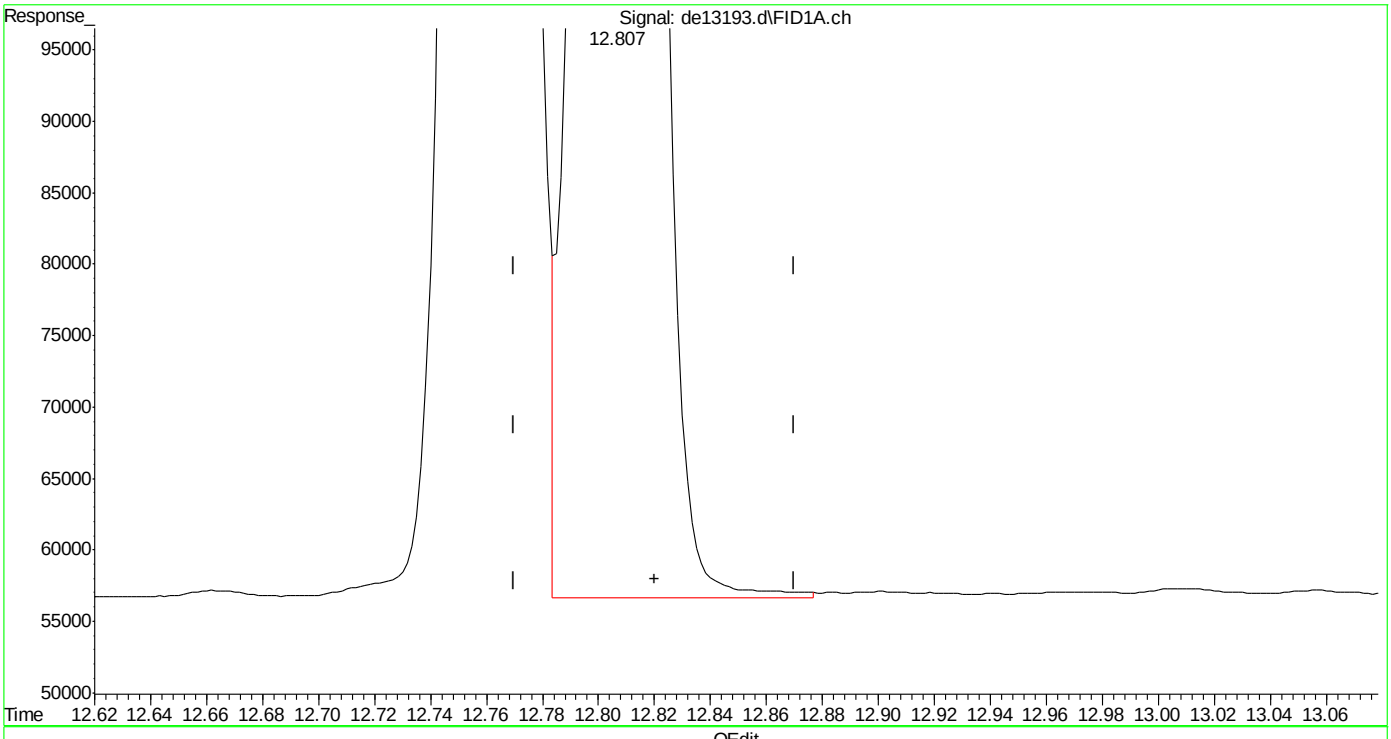
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:21 2016

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 :



(15) chrysene
12.807min 4.923 µg/ml m
response 488834

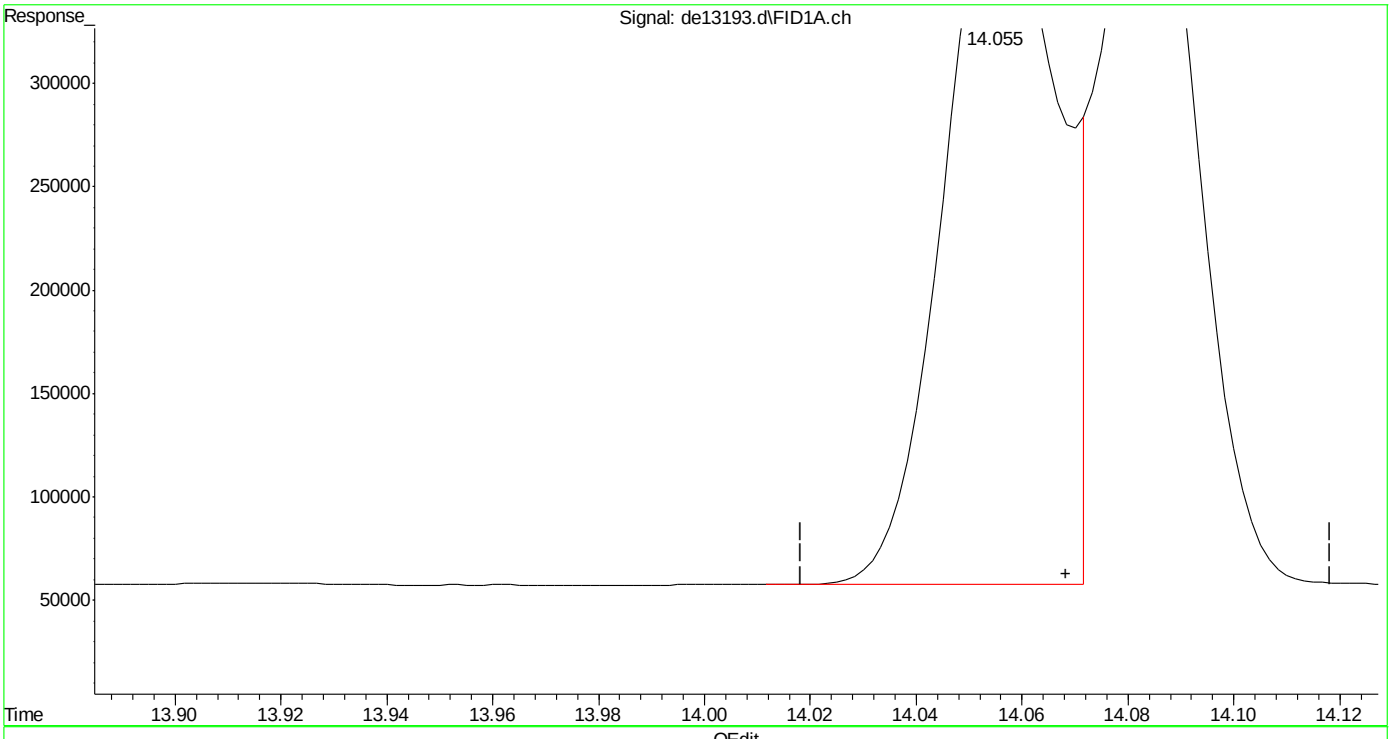
(+) = Expected Retention Time

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 :



(16) benzo(B)fluoranthene
14.055min 5.155 µg/ml
response 522606

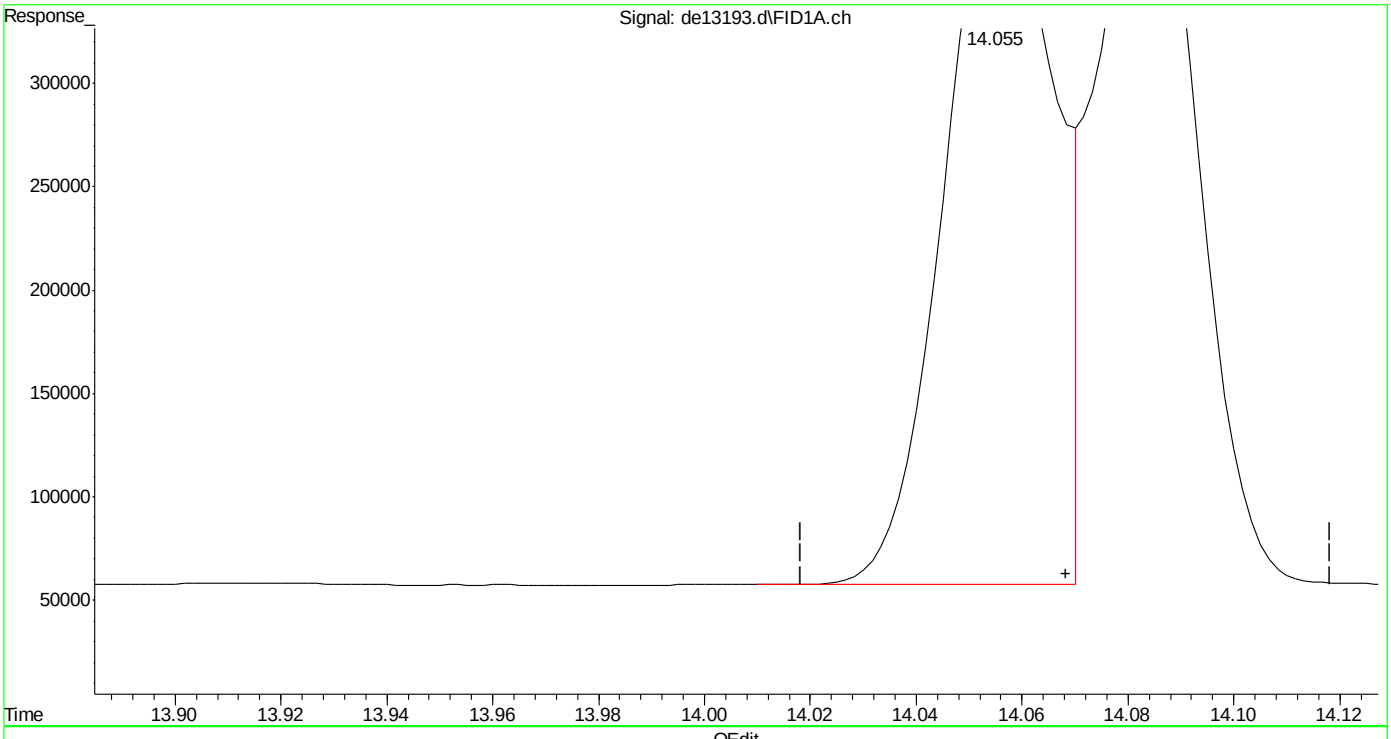
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:50 2016

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

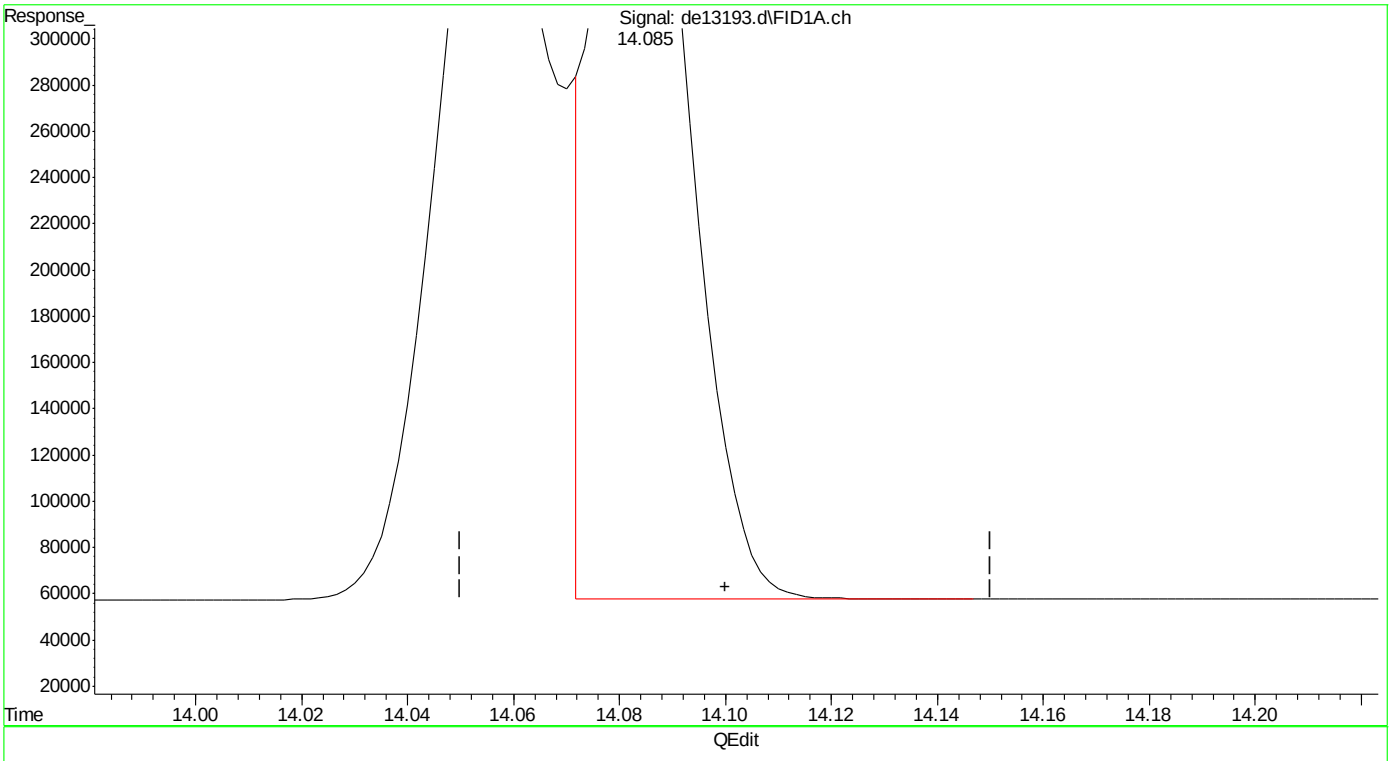
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:57 2016

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

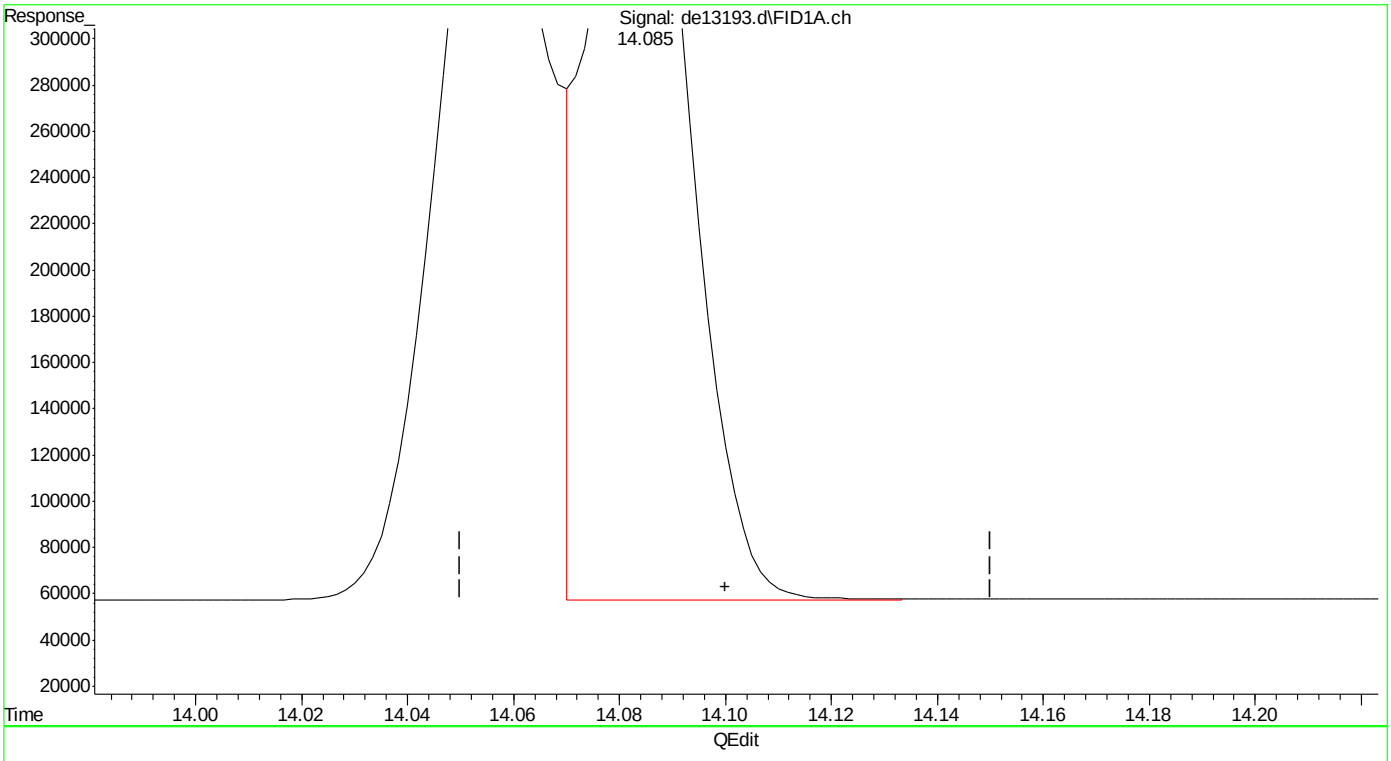
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:00 2016

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 :



(17) benzo(k)fluoranthene
14.085min 4.875 µg/ml m
response 474469

(+) = Expected Retention Time

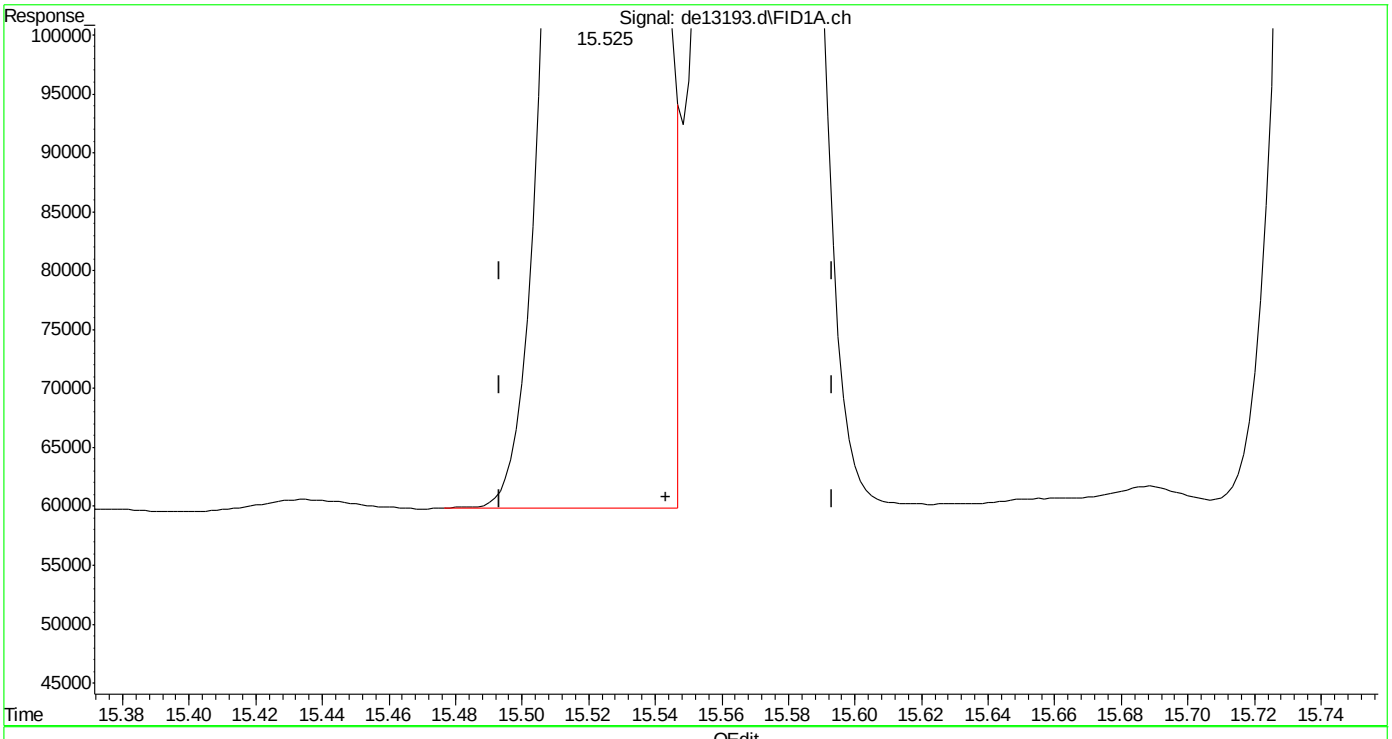
EPH160204M.M Fri Feb 05 10:44:13 2016

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

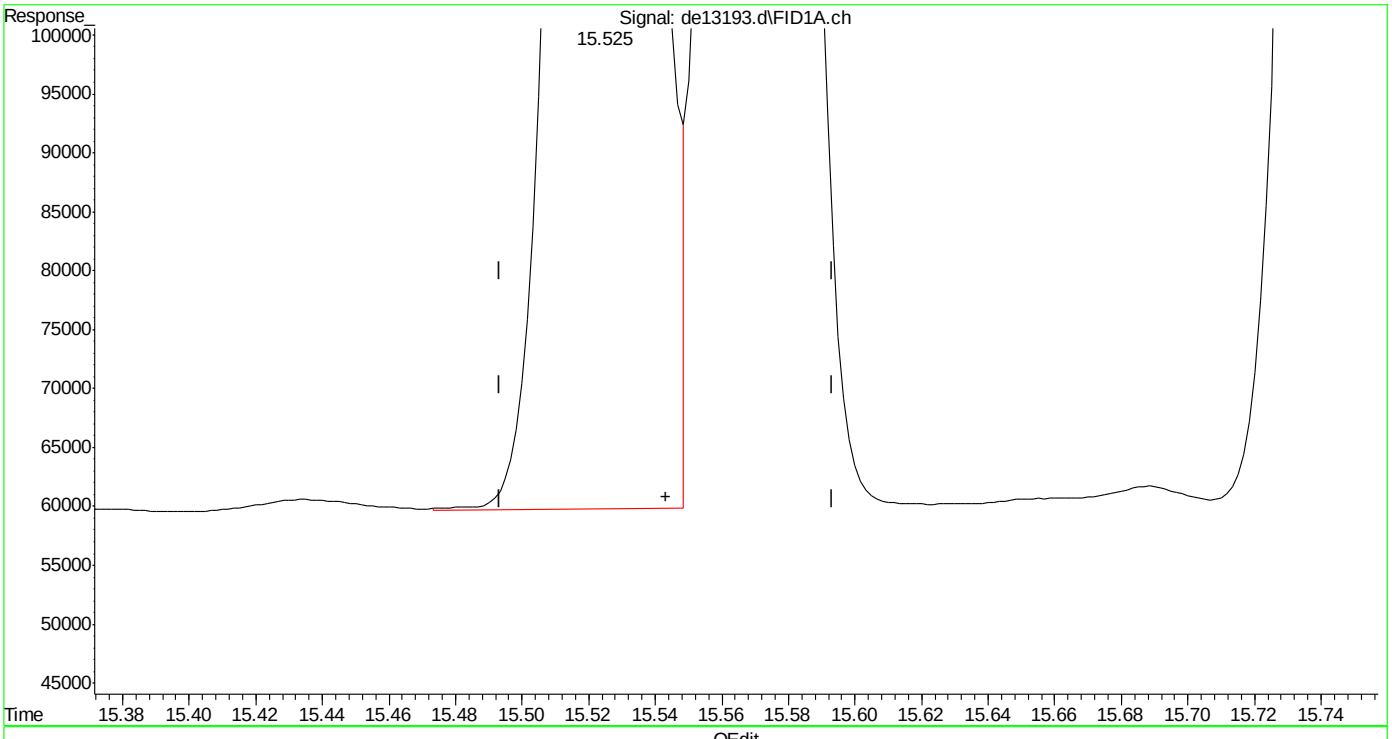
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:19 2016

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 :



(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

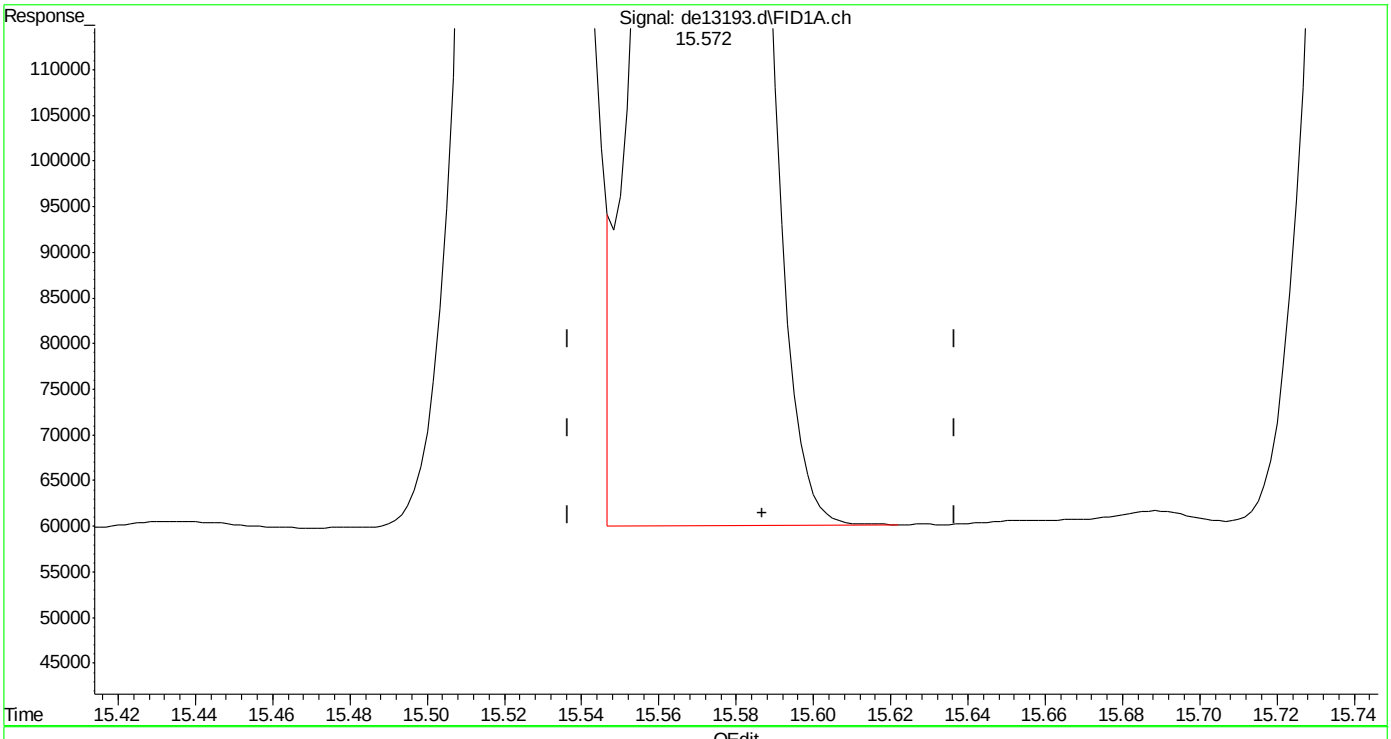
SGS ACCUTEST MC46340

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

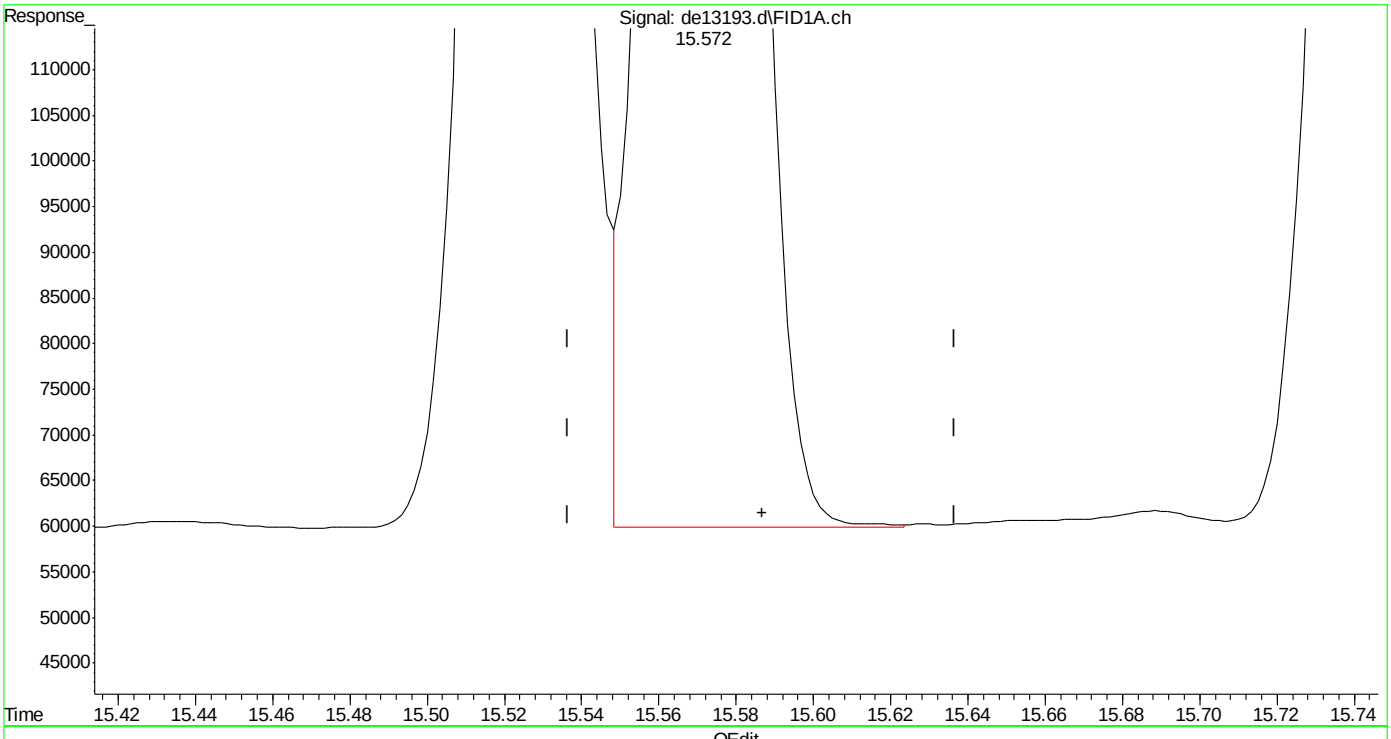
SGS ACCUTEST MC46340

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

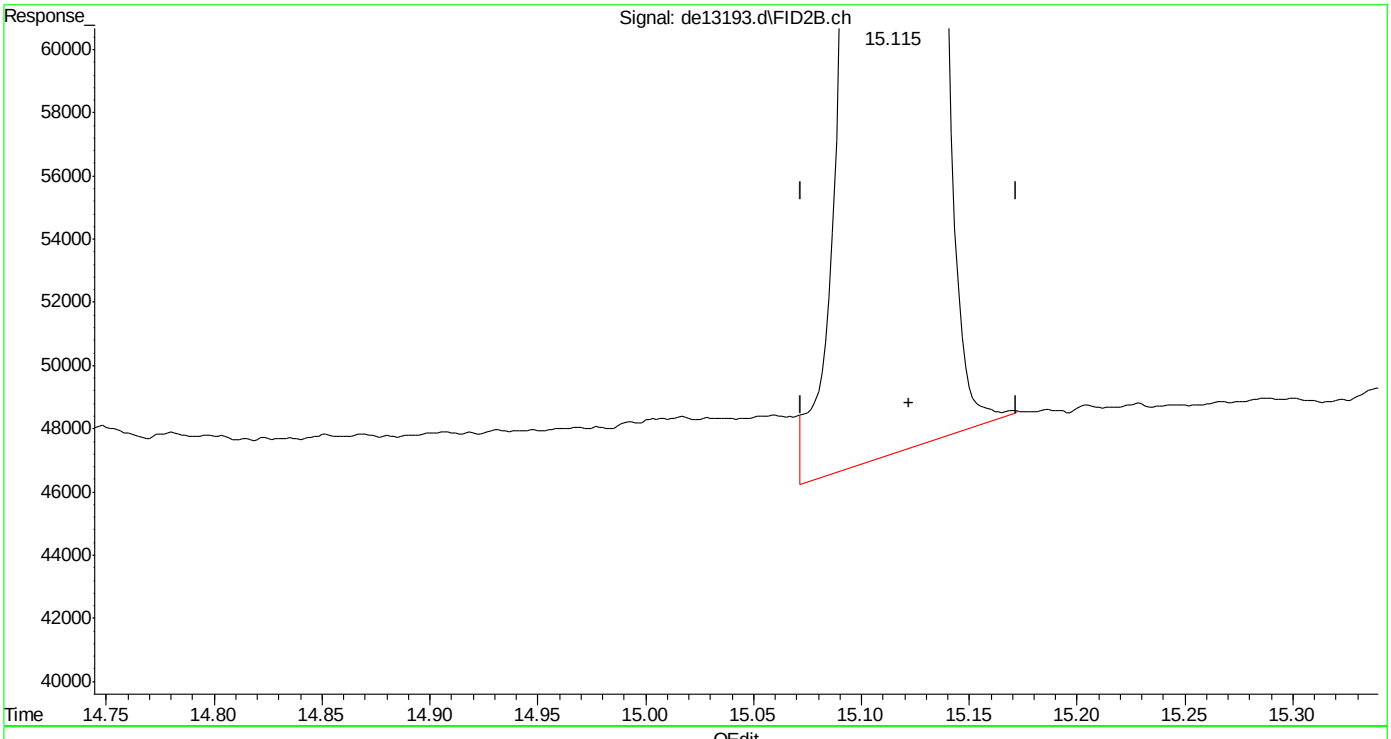
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:45:09 2016

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

SGS ACCUTEST MC46340

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

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.

9.4.4

9

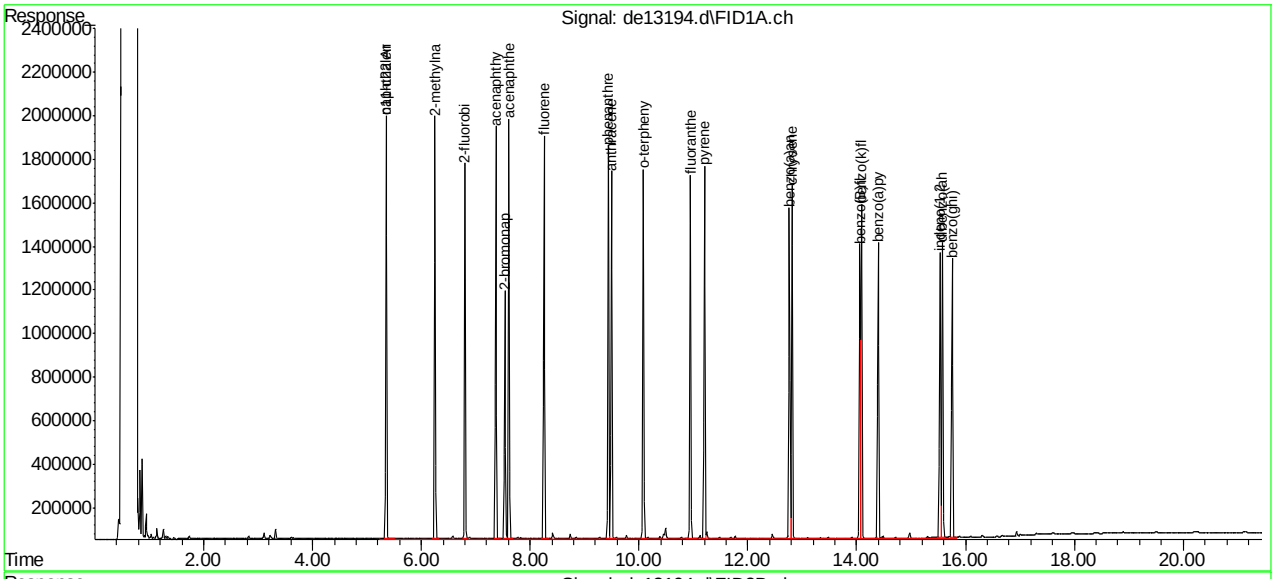
SGS ACCUTEST MC46340

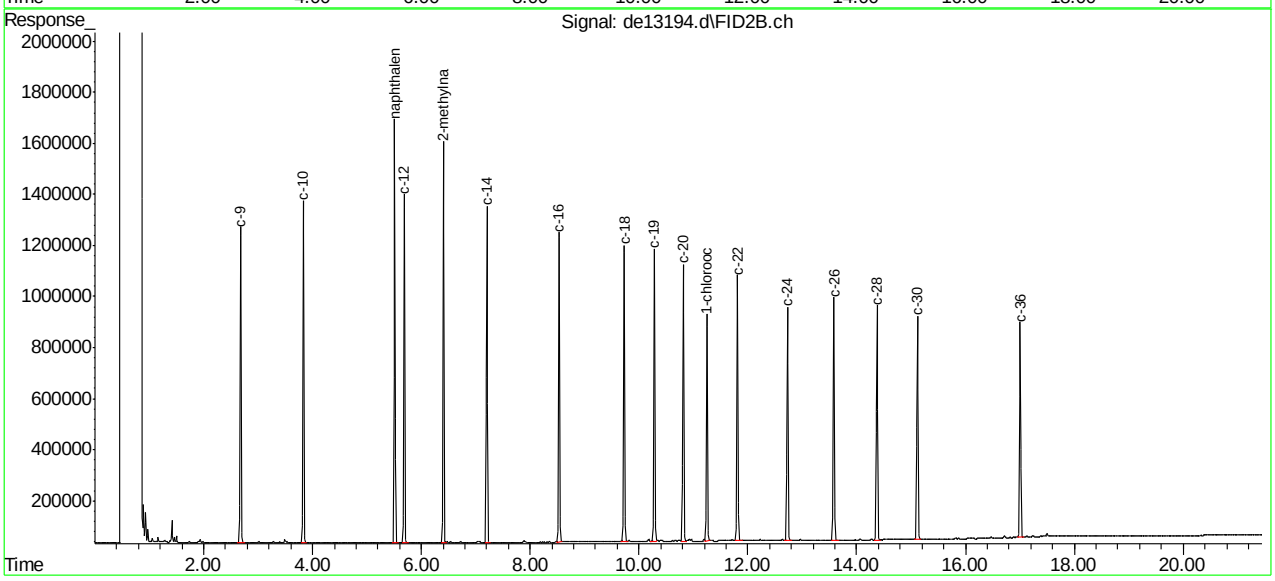
Quantitation Report (QT Reviewed)

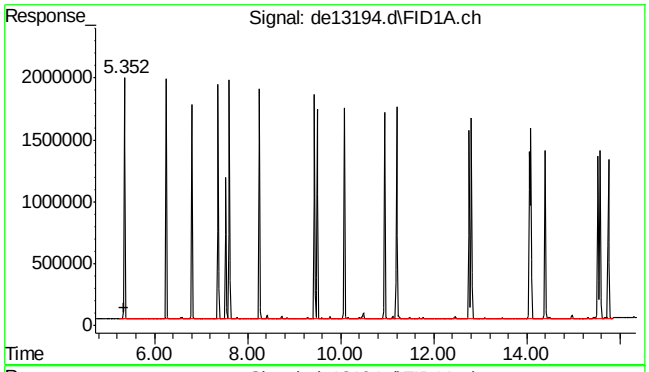
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

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 :

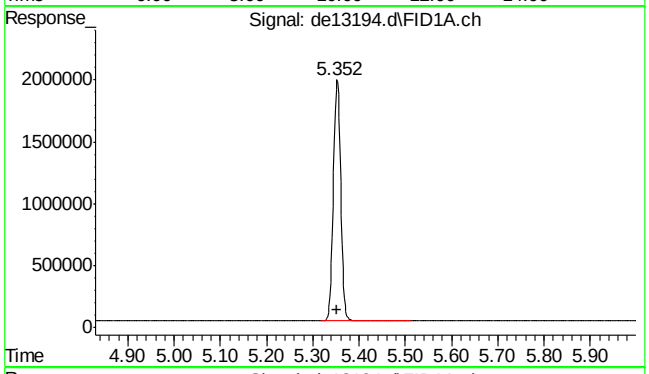






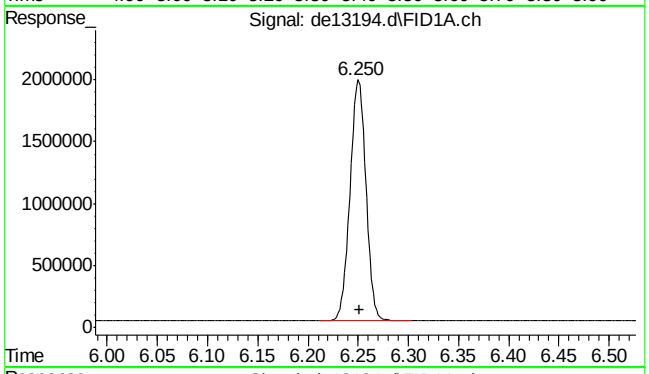
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



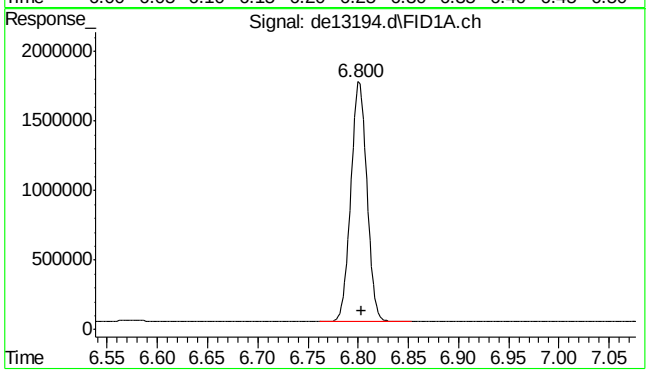
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



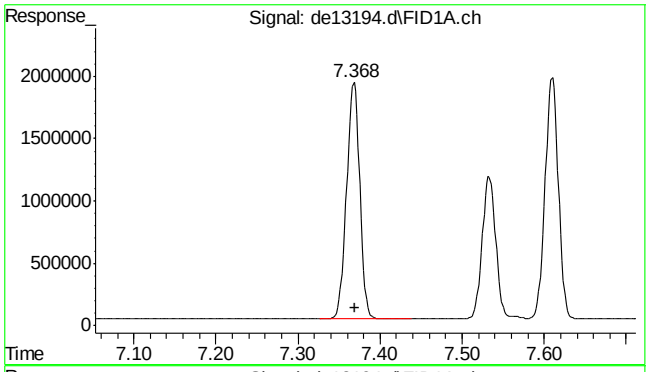
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



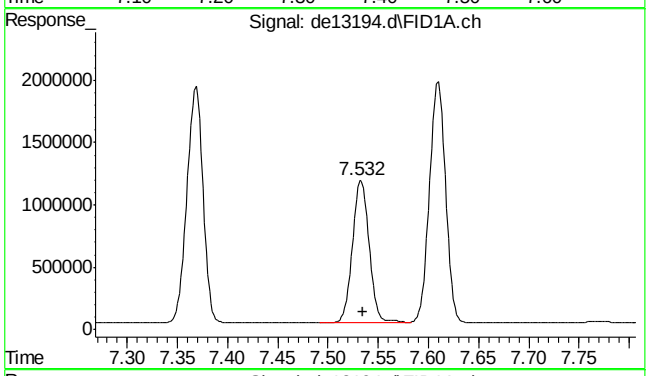
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml



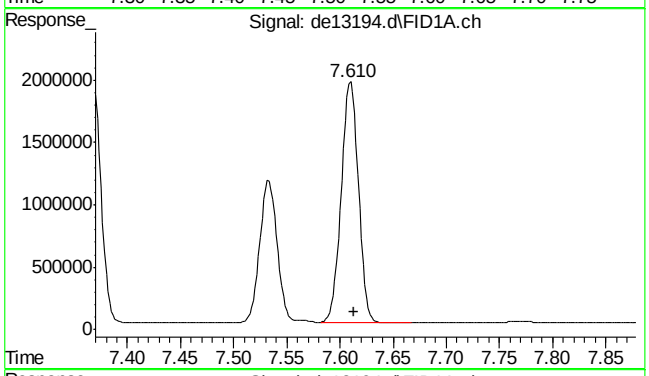
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



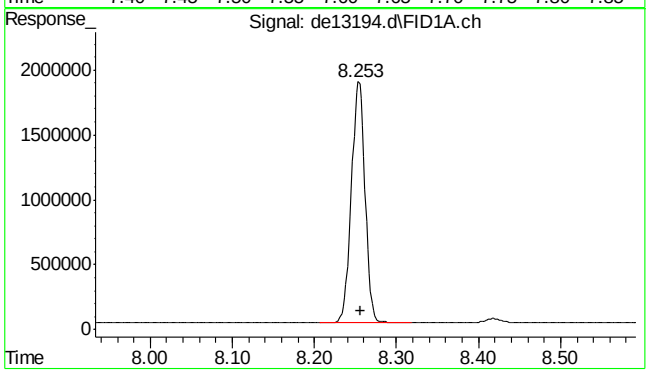
#6 2-bromonaphthalene

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

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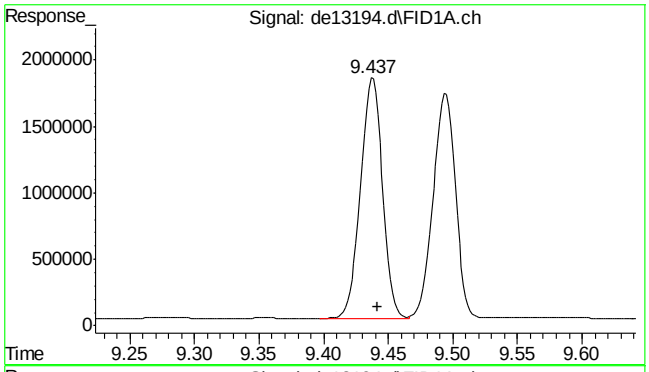
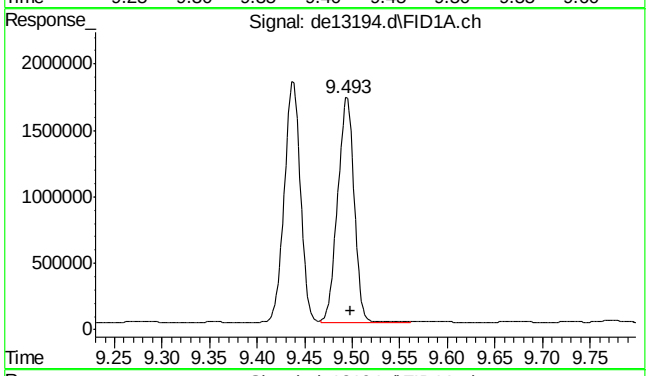


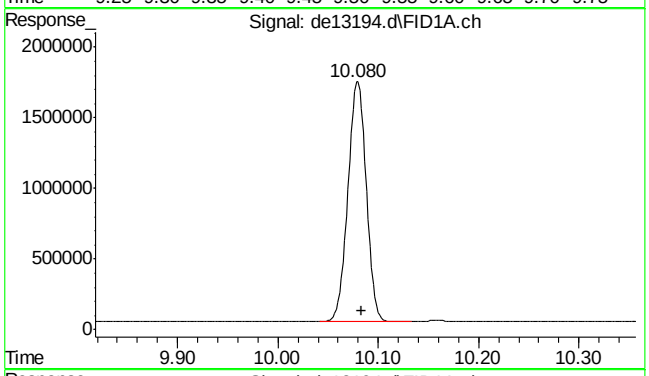
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



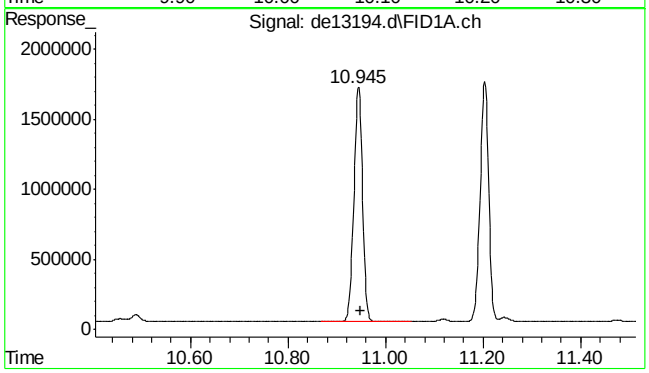
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



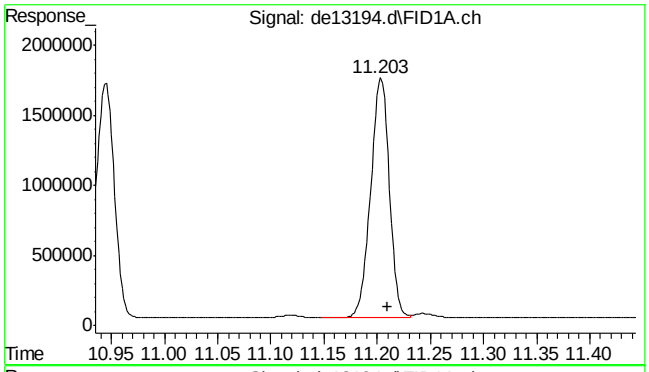
#11 o-terphenyl

R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



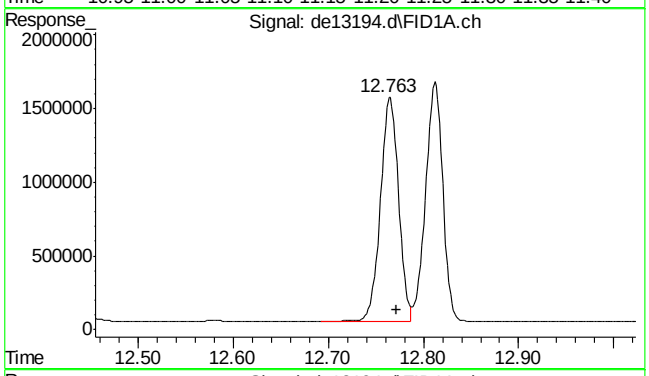
#12 fluoranthene

R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml



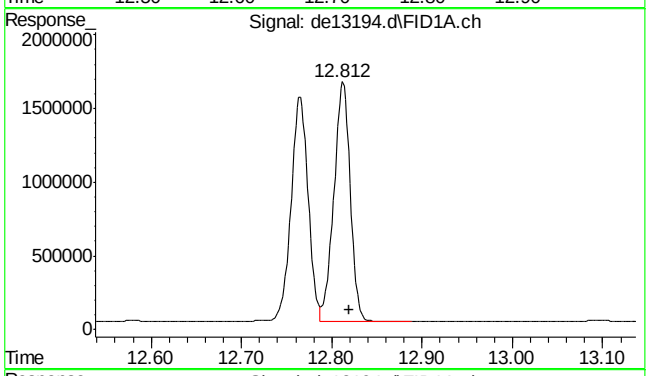
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



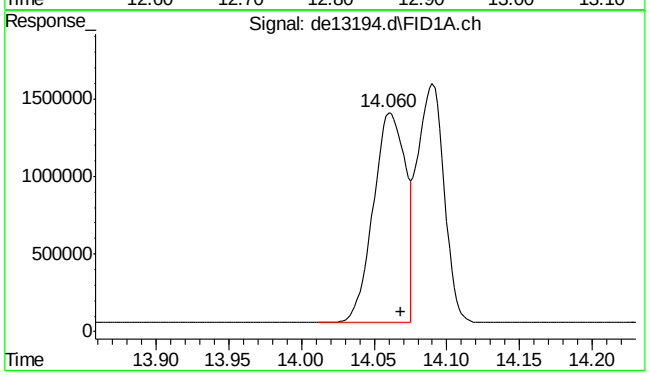
#14 benzo(a)anthracene

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

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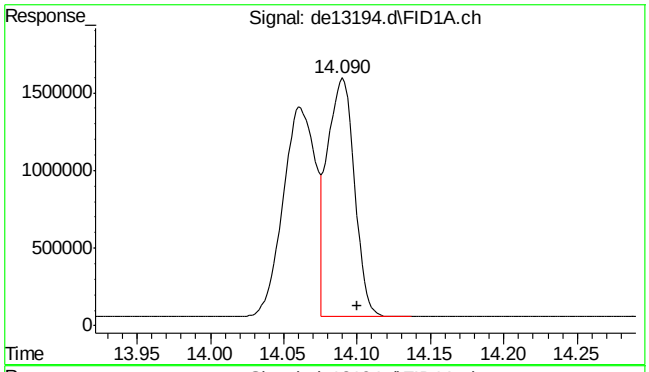
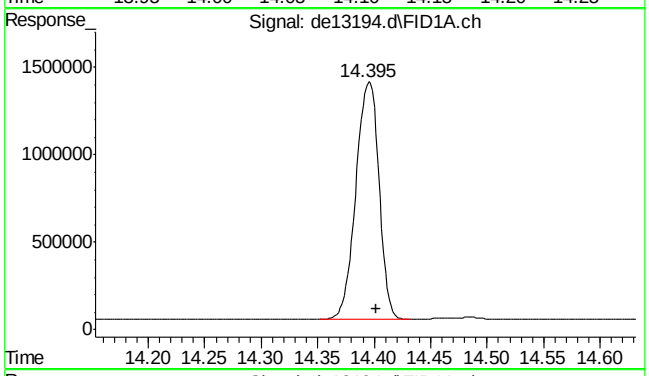


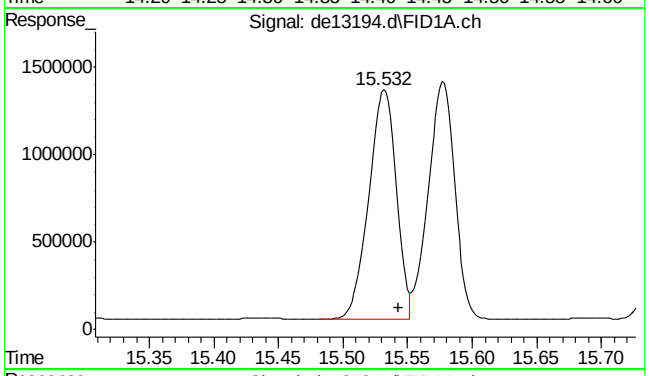
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



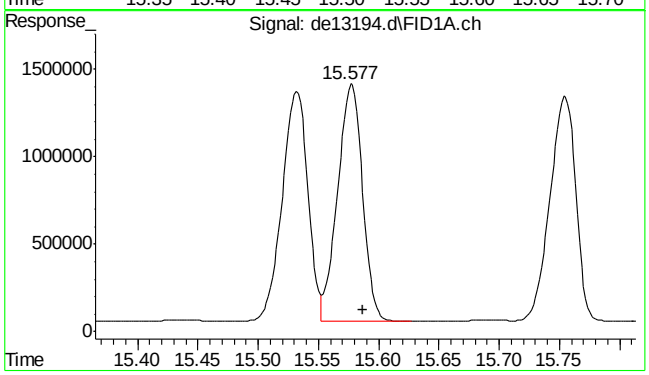
#18 benzo(a)pyrene

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

9.4.4

9

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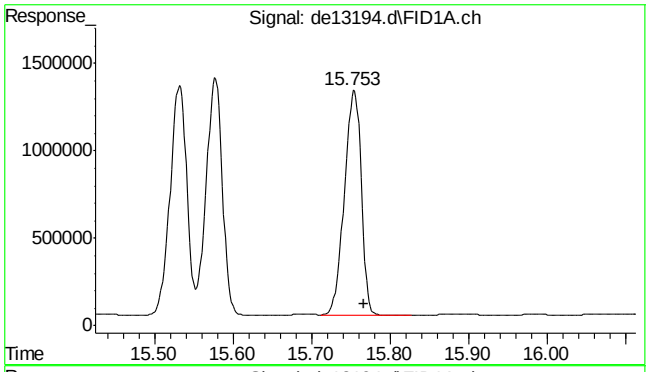
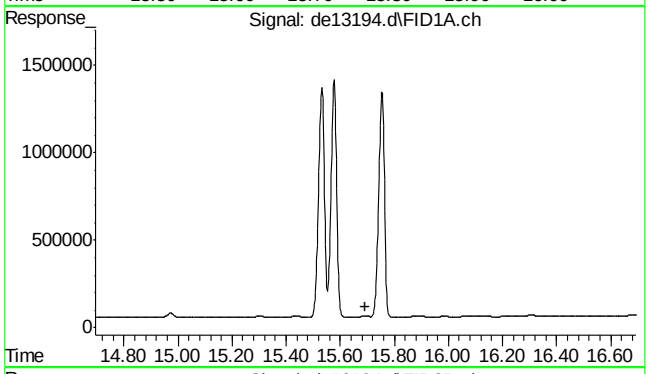


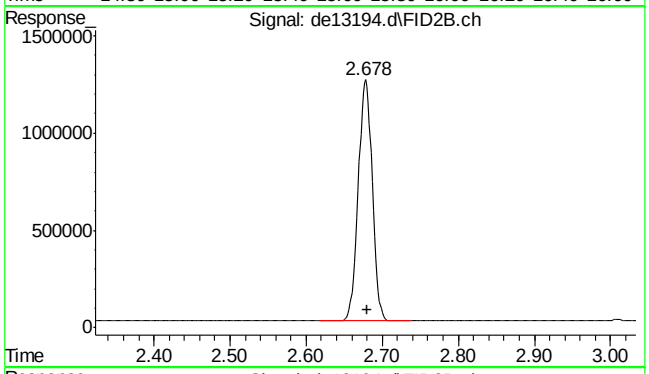
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



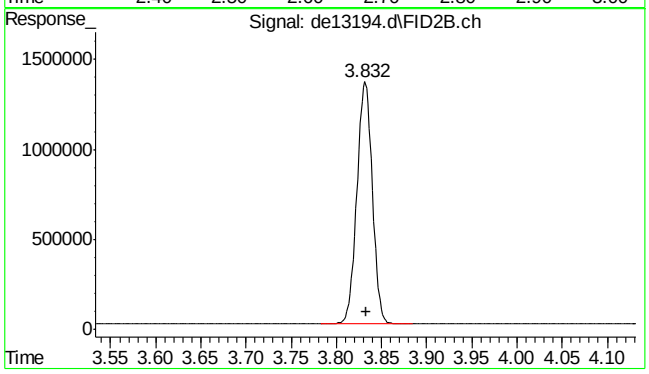
#22 bht

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



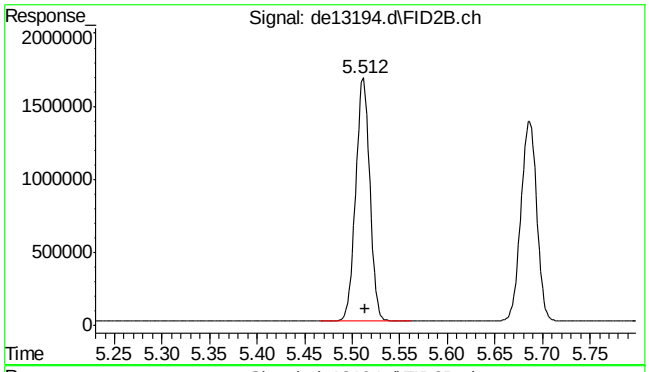
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.4.4

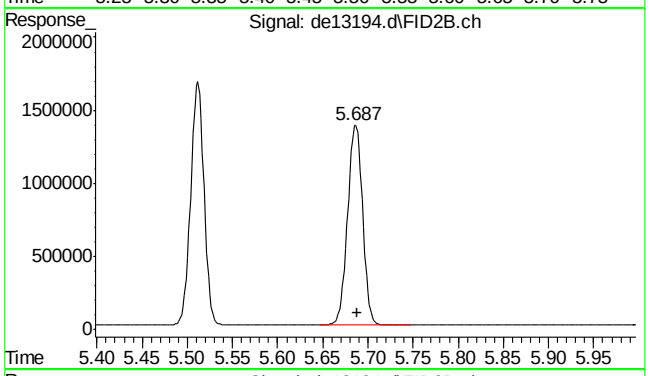
9

SGS ACCUTEST MC46340



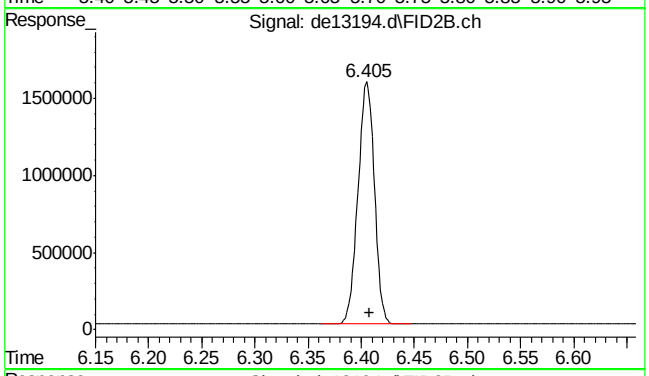
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



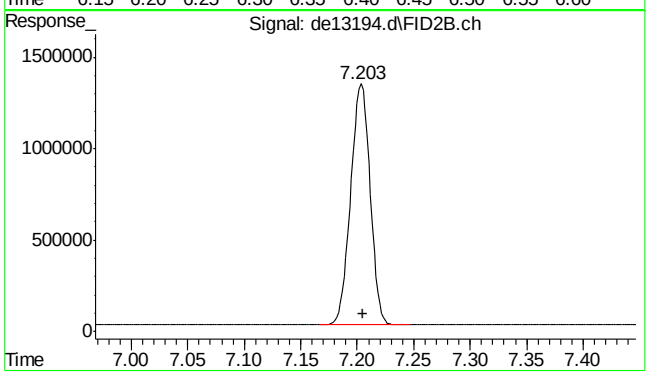
#28 c-12

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



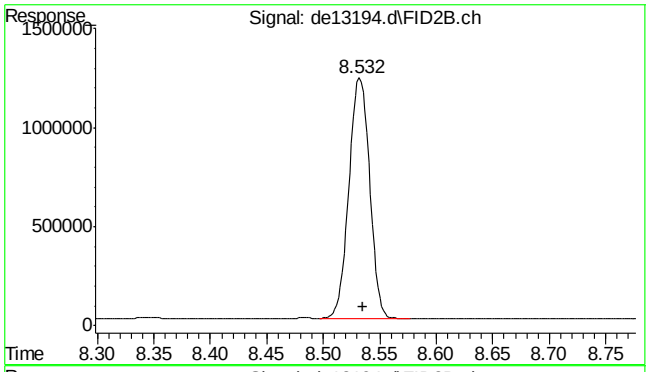
#30 c-14

R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml

9.4.4

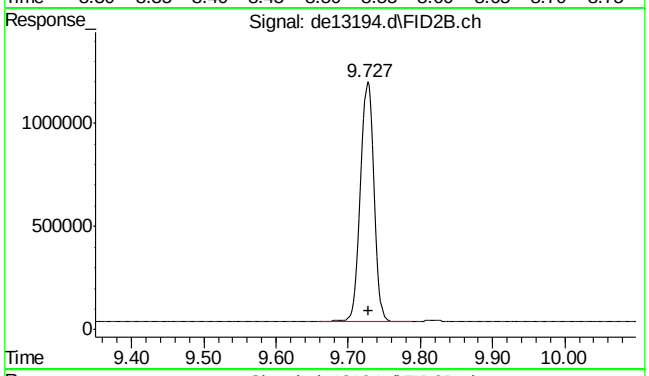
9

SGS ACCUTEST MC46340



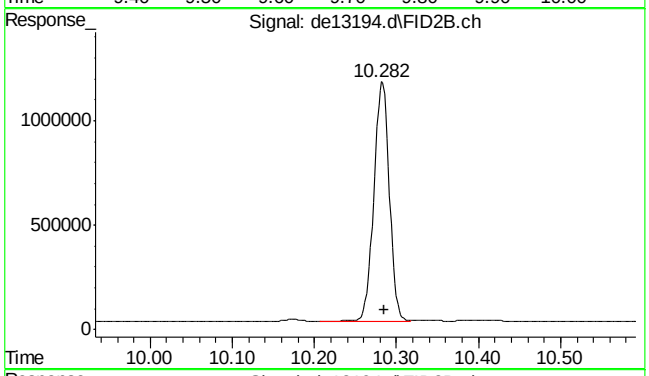
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



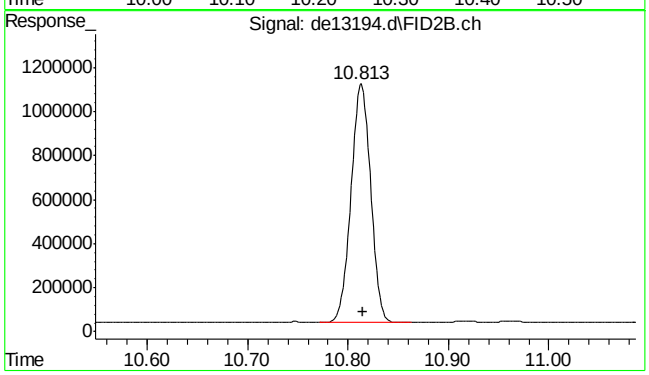
#32 c-18

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



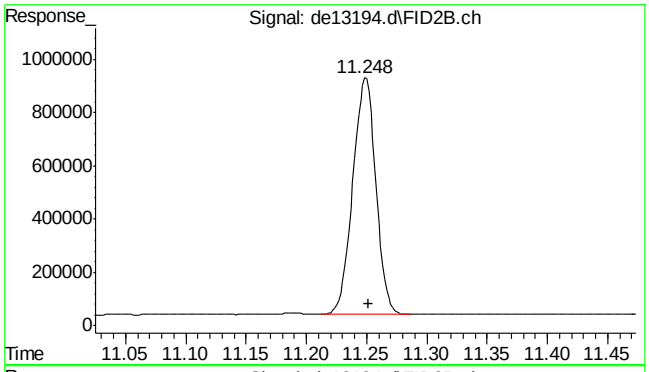
#34 c-20

R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

9.4.4

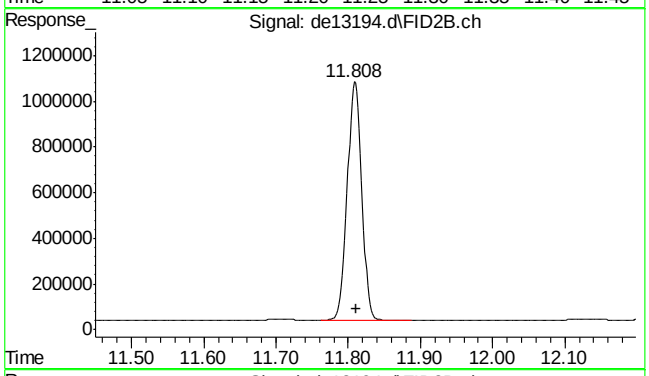
9

SGS ACCUTEST MC46340



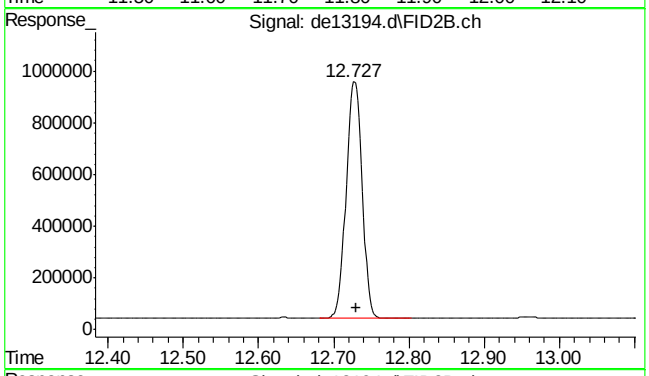
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



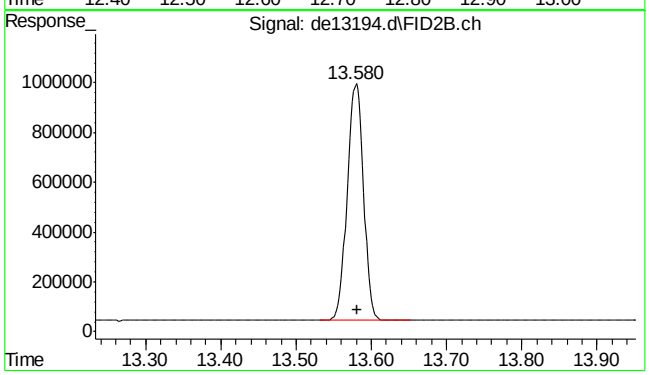
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 1451343
Conc: 20.60 µg/ml



#37 c-24

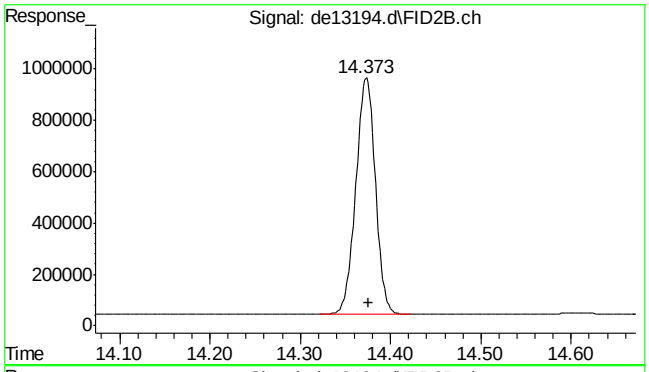
R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 1351453
Conc: 20.22 µg/ml



#38 c-26

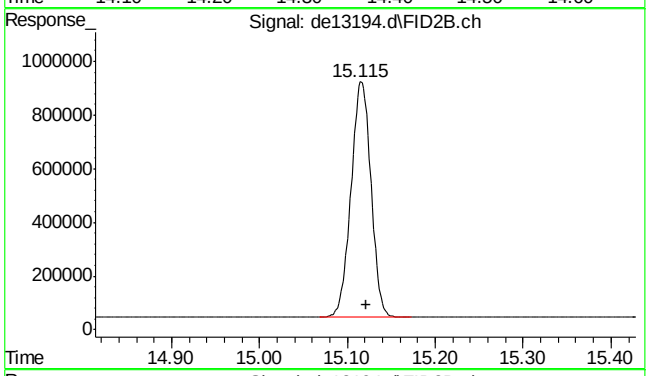
R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml

SGS ACCUTEST MC46340



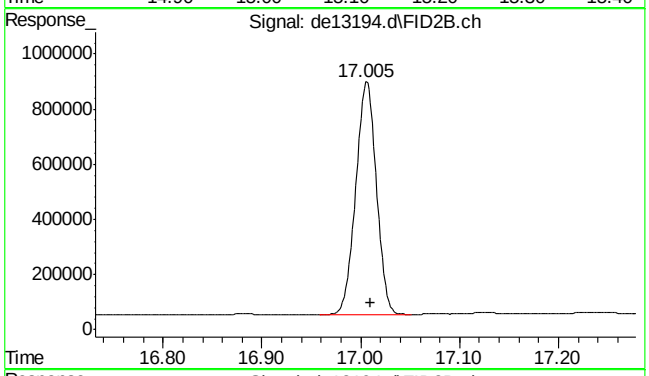
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



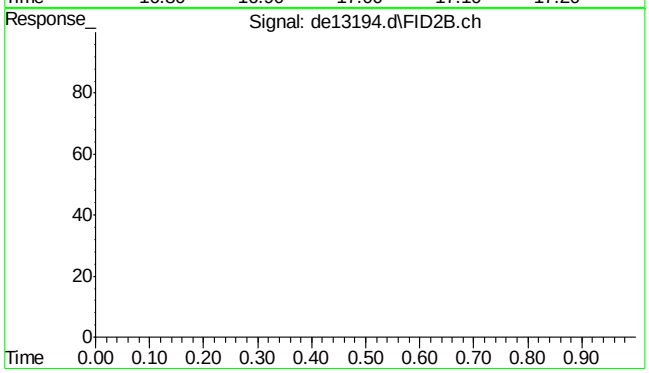
#40 c-30

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



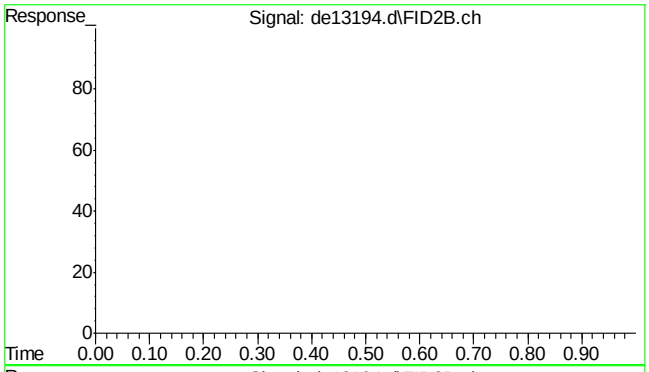
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.4

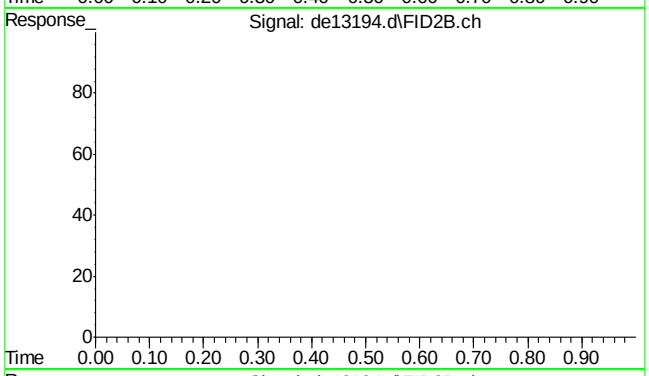
9

SGS ACCUTEST MC46340



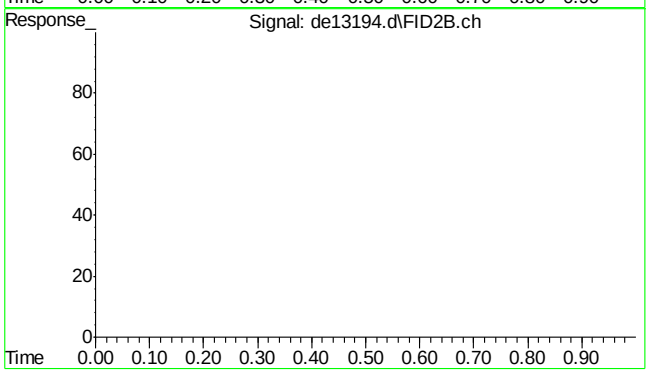
#43 bht

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

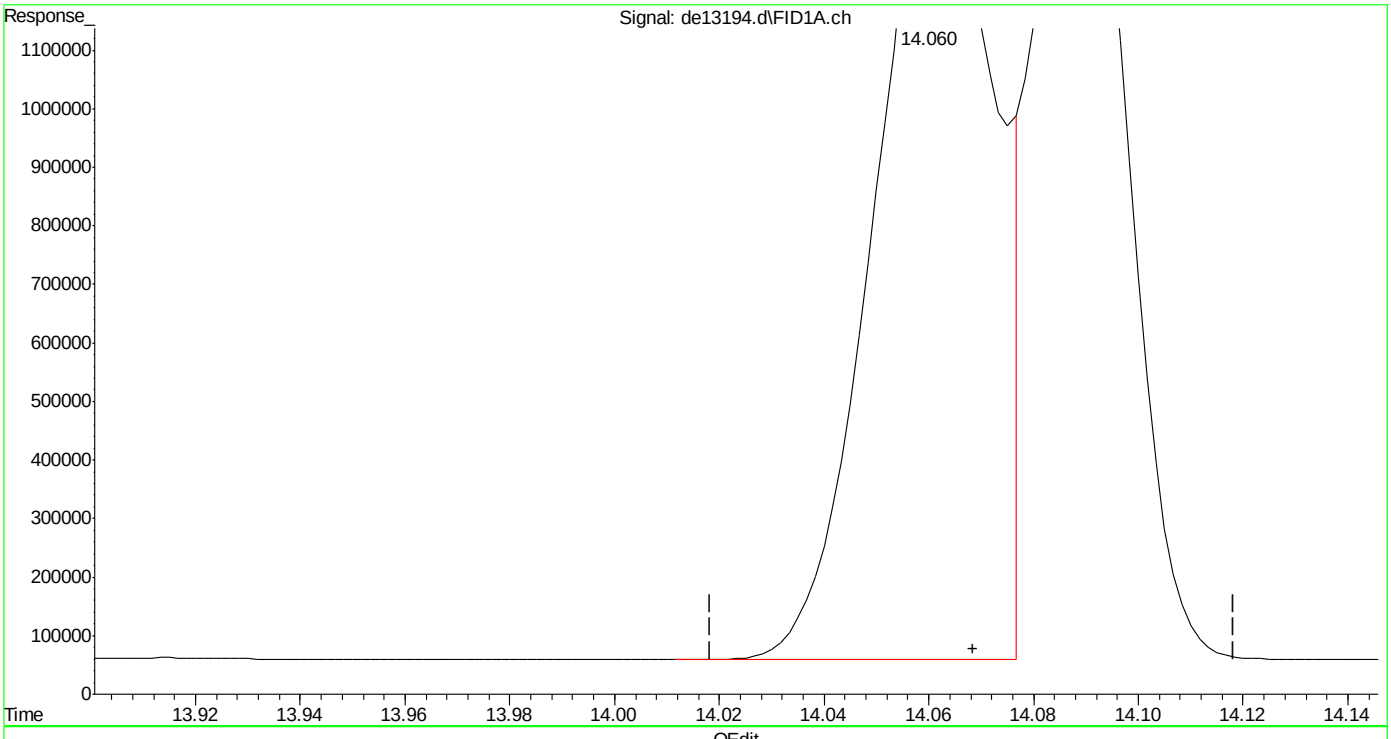
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

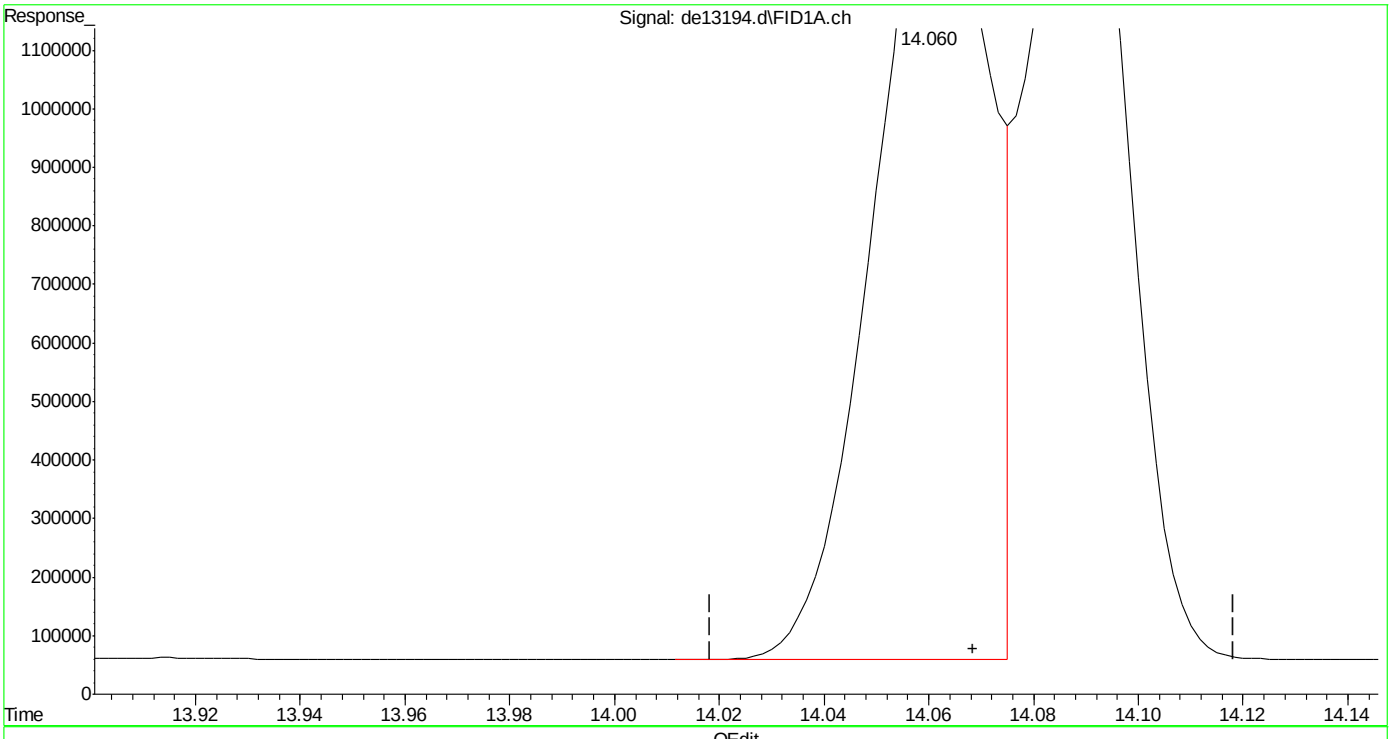
(+) = Expected Retention Time

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

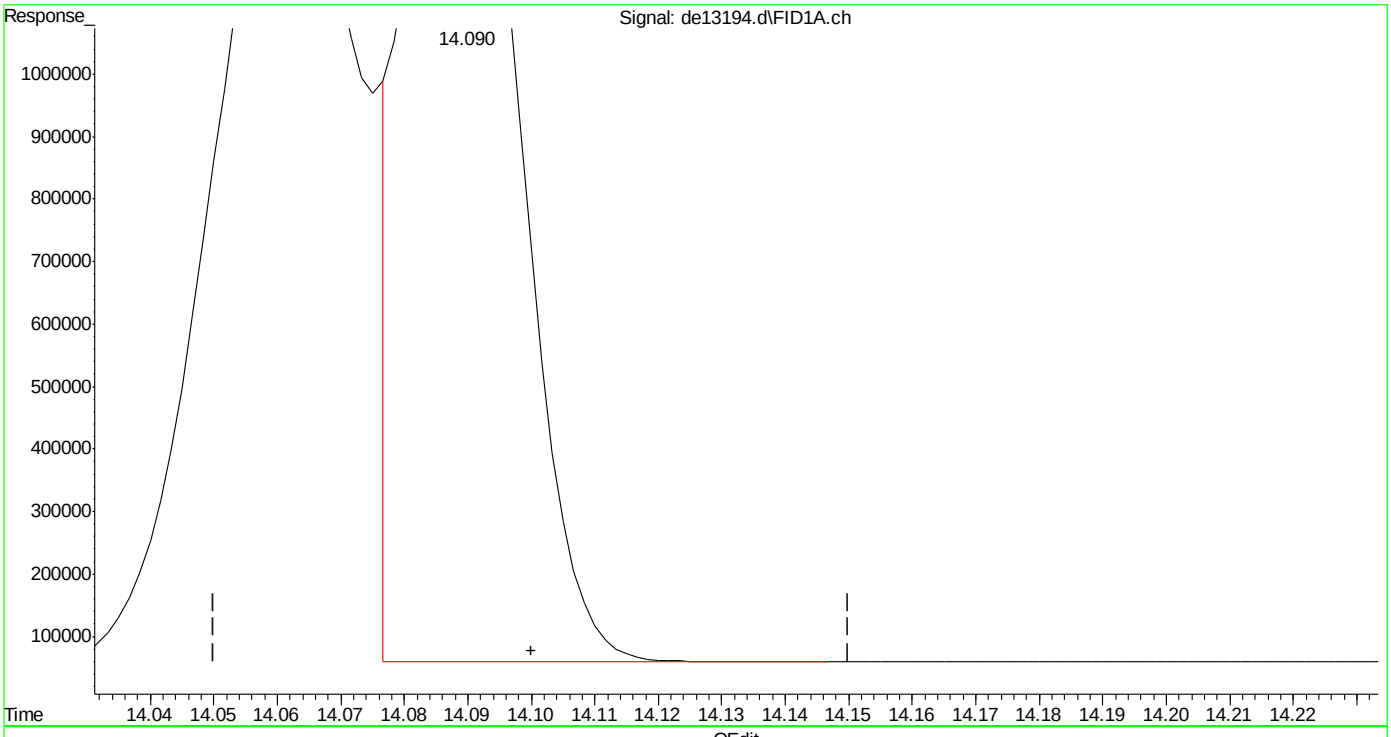
(+) = Expected Retention Time

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

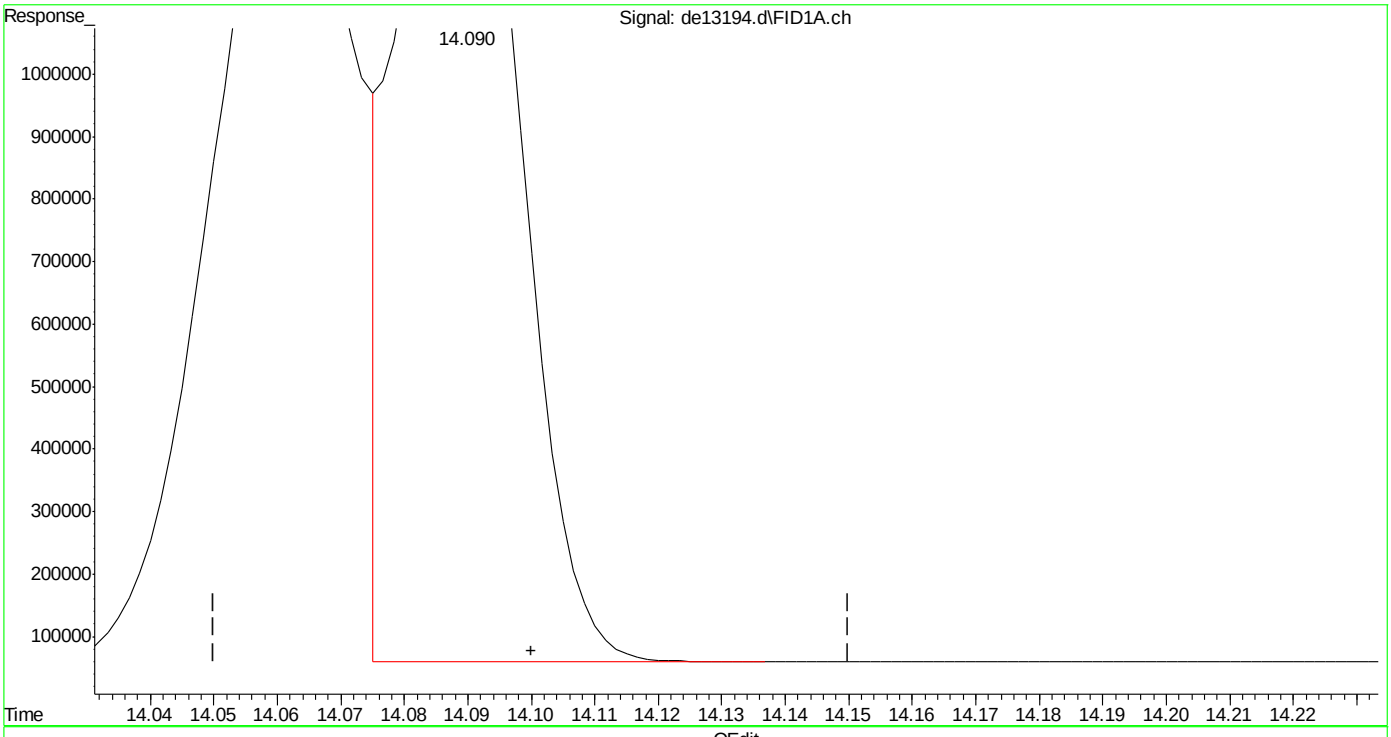
(+) = Expected Retention Time

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

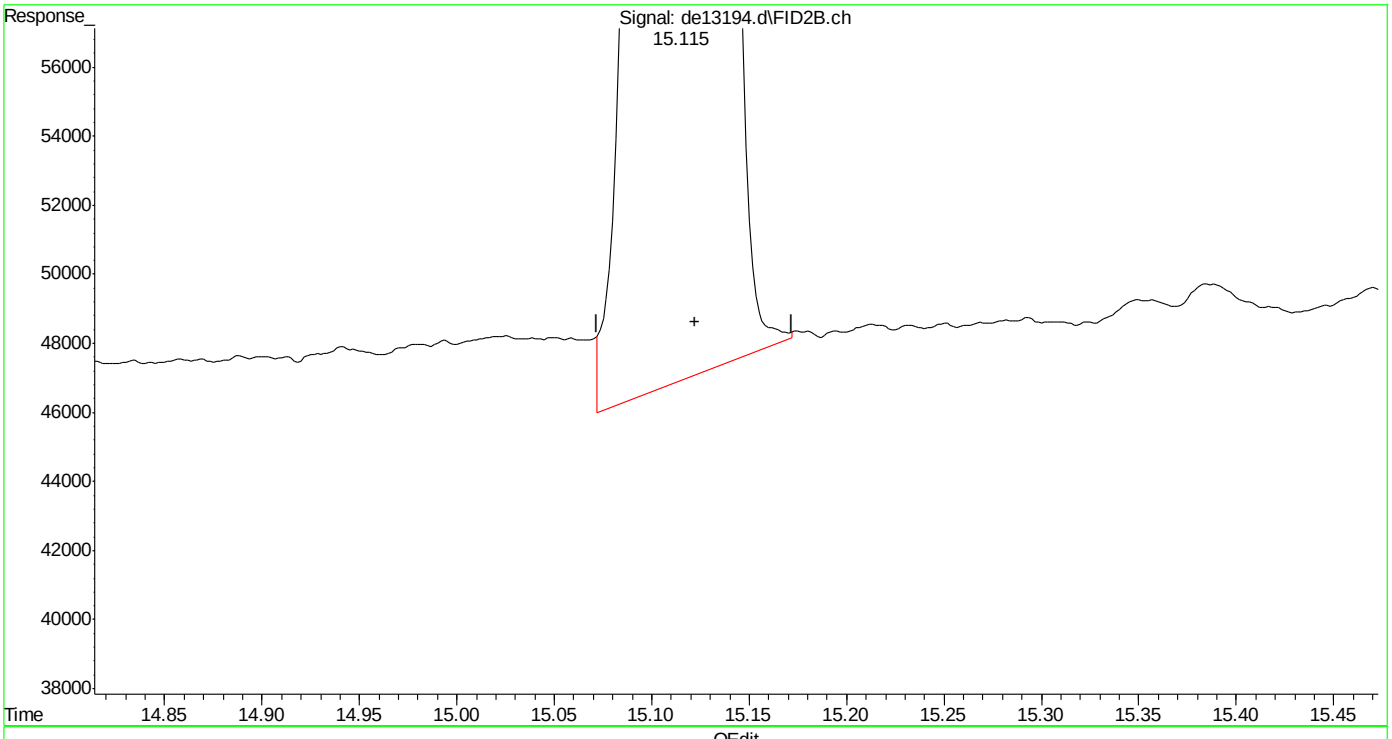
(+) = Expected Retention Time

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
EPH160204M.M Fri Feb 05 10:51:11 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 : 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

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

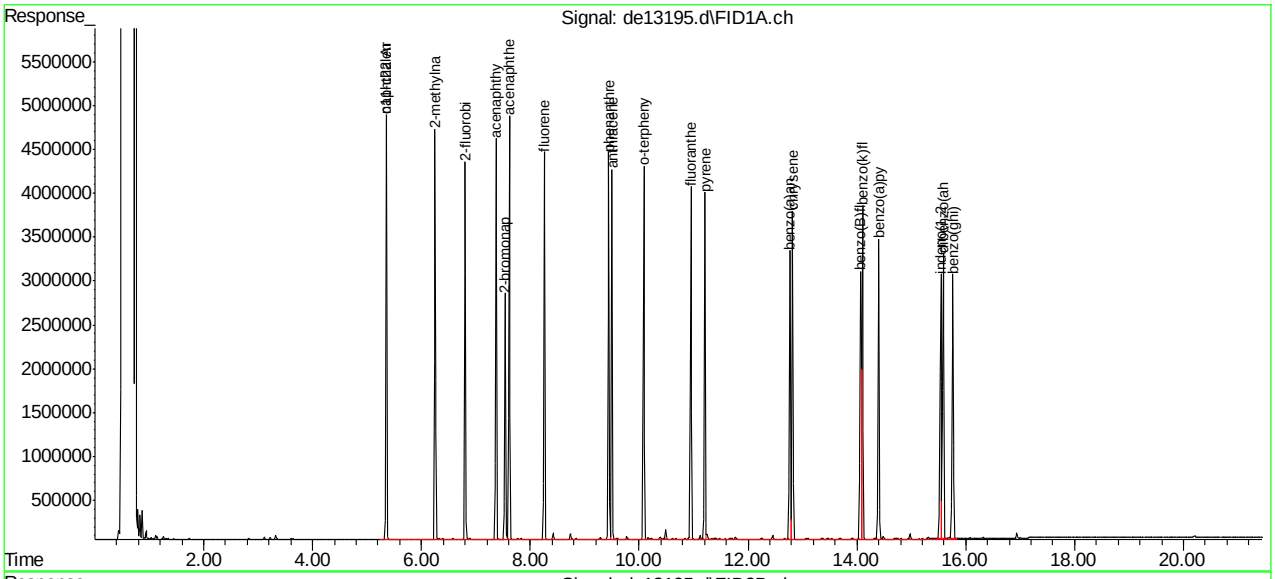
(f)=RT Delta > 1/2 Window (m)=manual int.

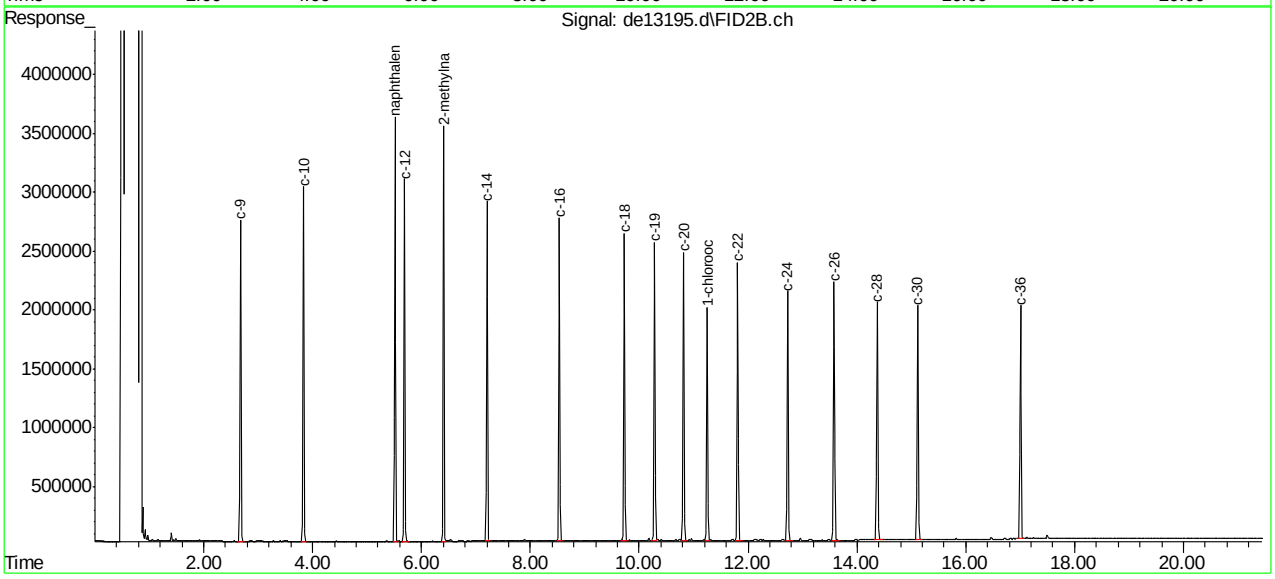
Quantitation Report (QT Reviewed)

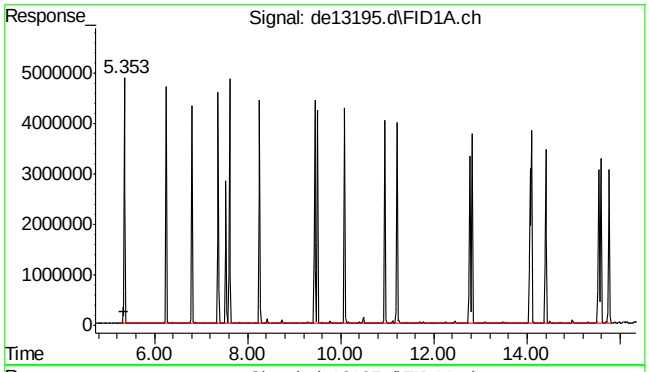
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

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 :

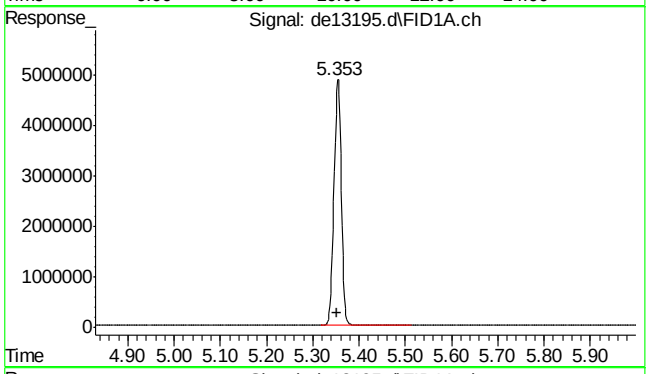






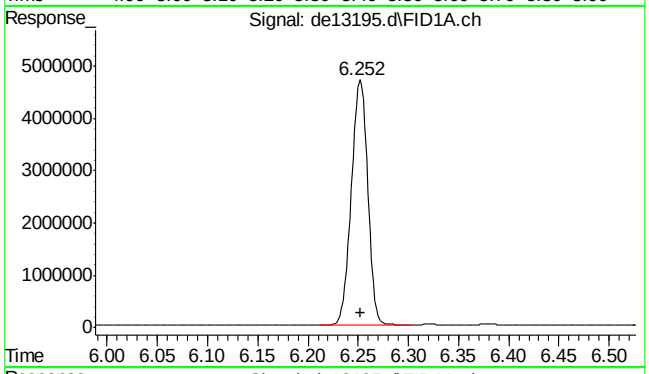
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



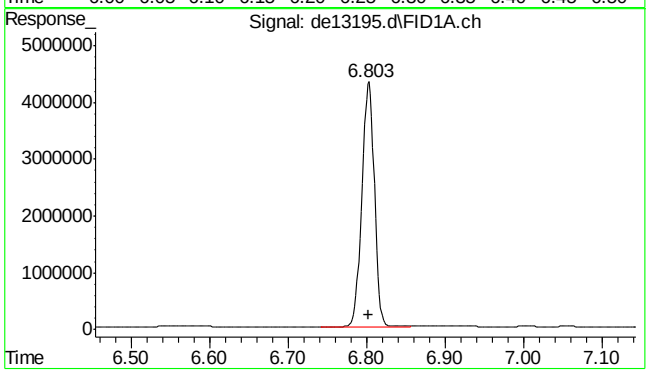
#2 naphthalene

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

9.4.5

9

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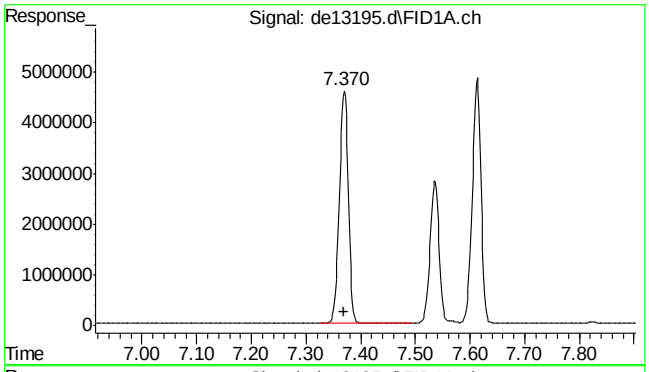
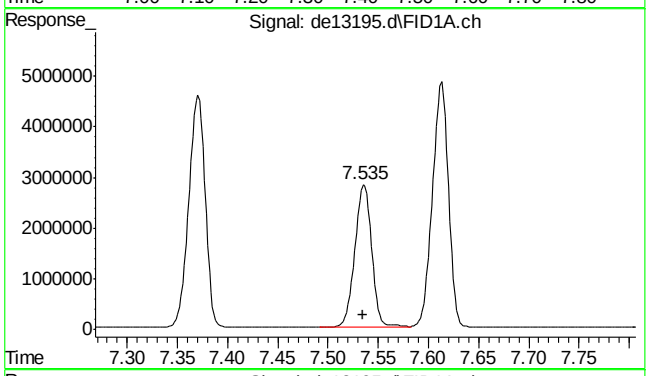


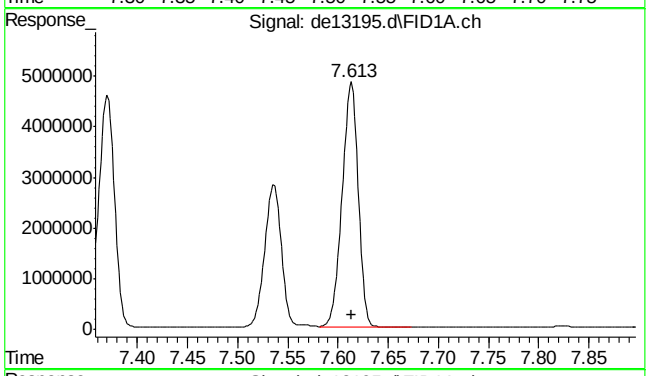
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



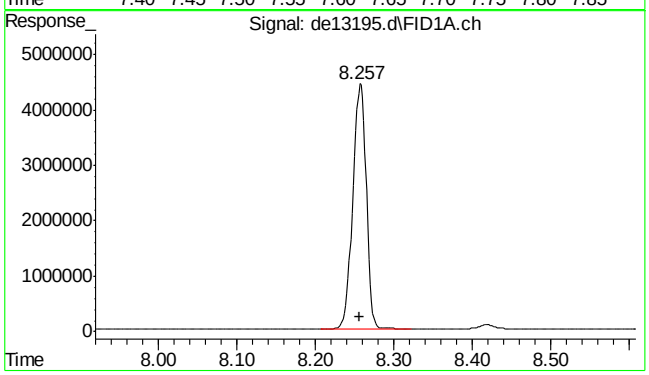
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



#7 acenaphthene

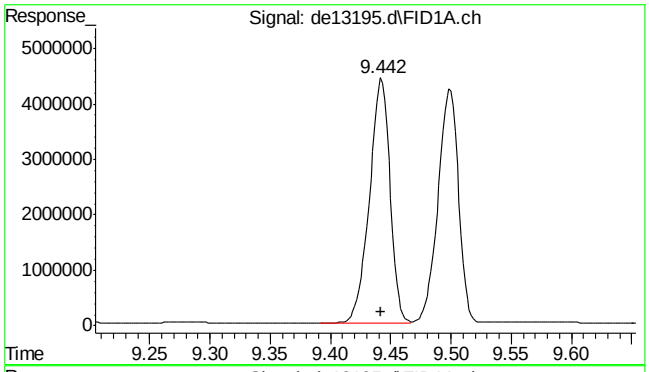
R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



#8 fluorene

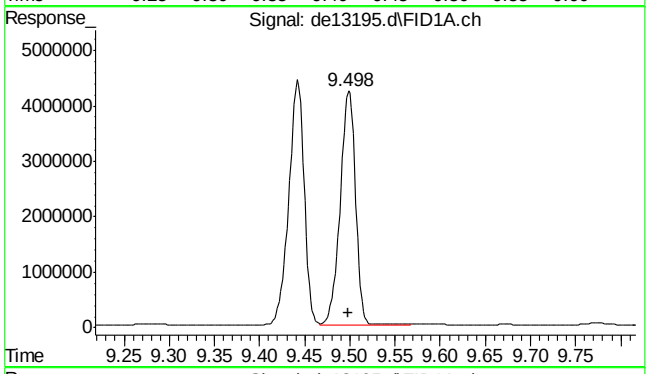
R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

SGS ACCUTEST MC46340



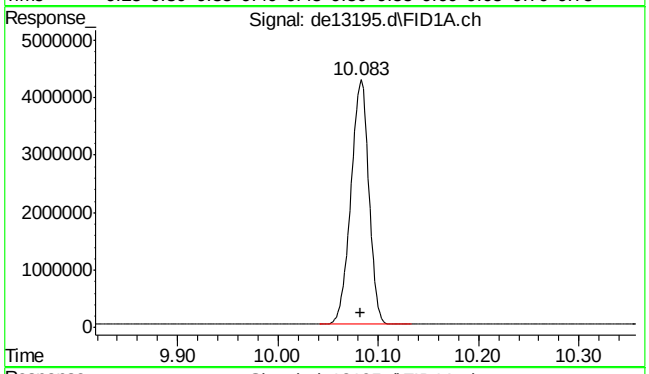
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



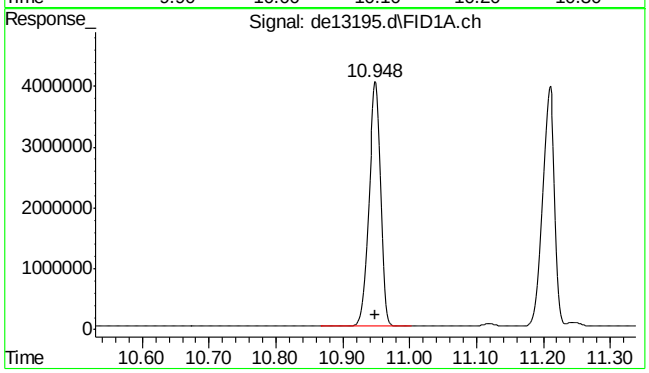
#10 anthracene

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



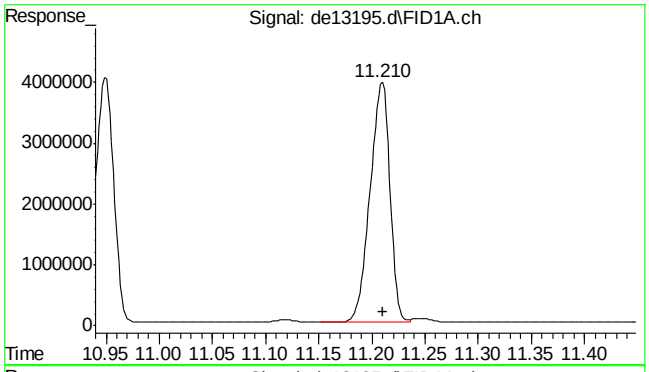
#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.4.5

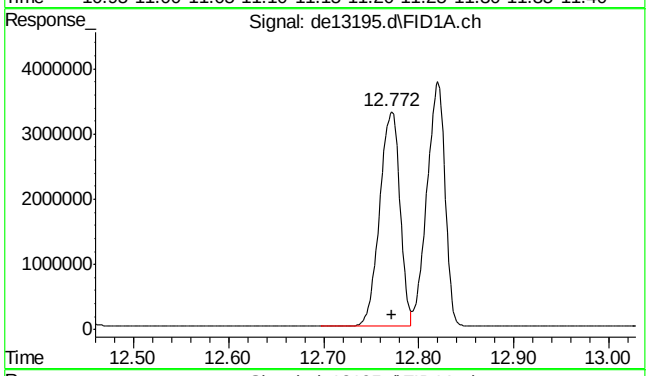
9

SGS ACCUTEST MC46340



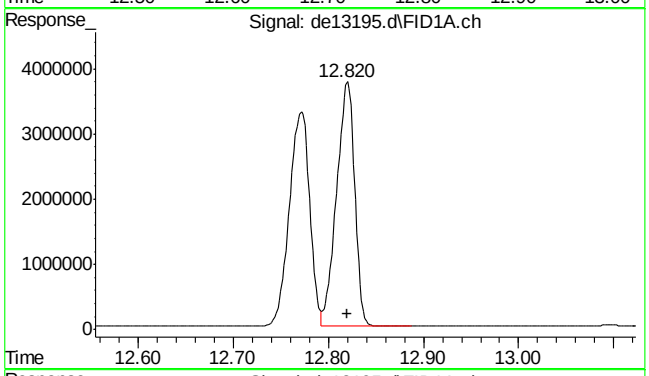
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



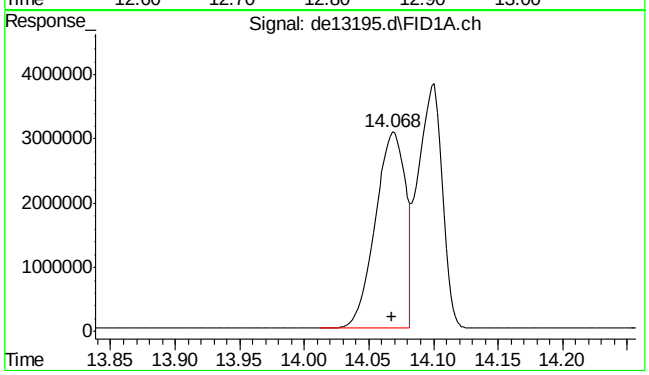
#14 benzo(a)anthracene

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



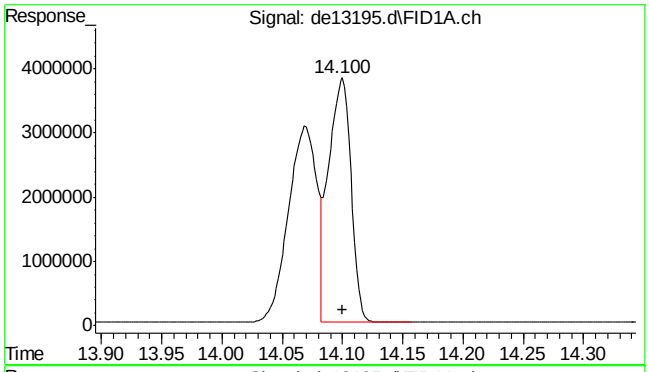
#16 benzo(B)fluoranthene

R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml

9.4.5

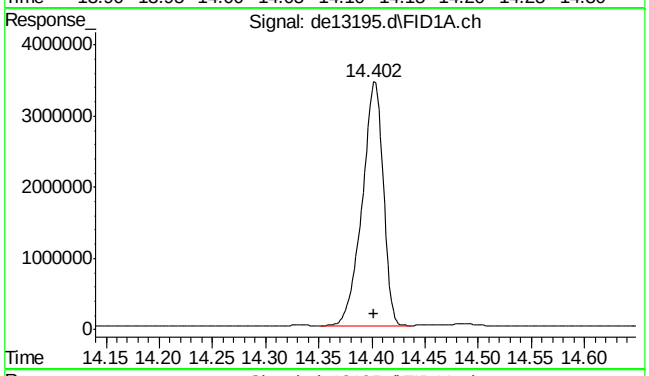
9

SGS ACCUTEST MC46340



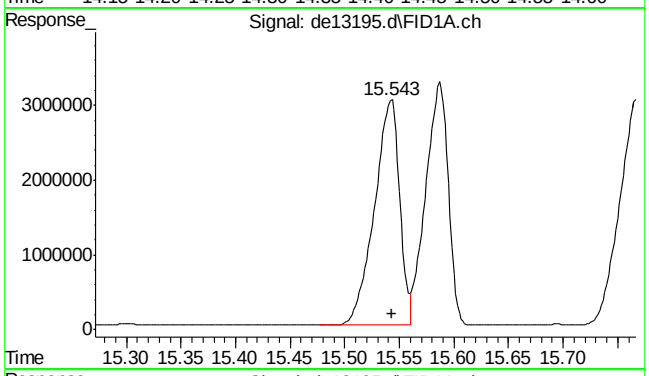
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



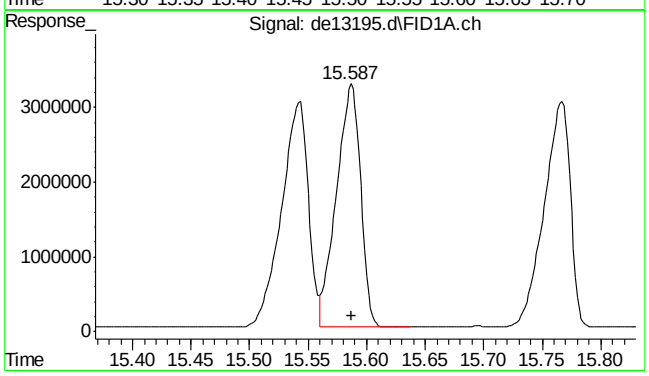
#18 benzo(a)pyrene

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



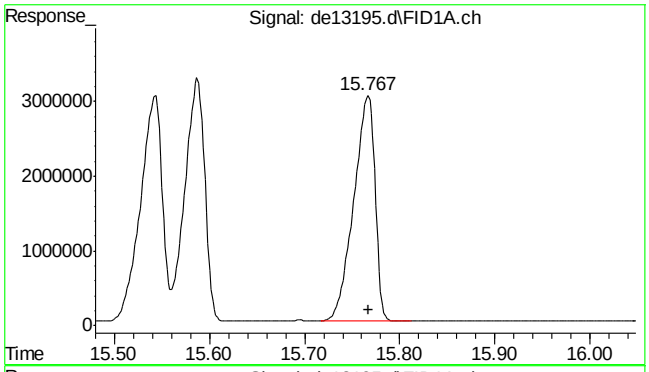
#20 dibenzo(ah)anthracene

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m

9.4.5

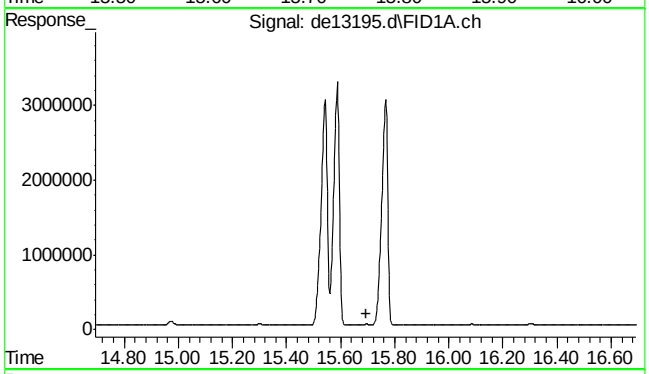
9

SGS ACCUTEST MC46340



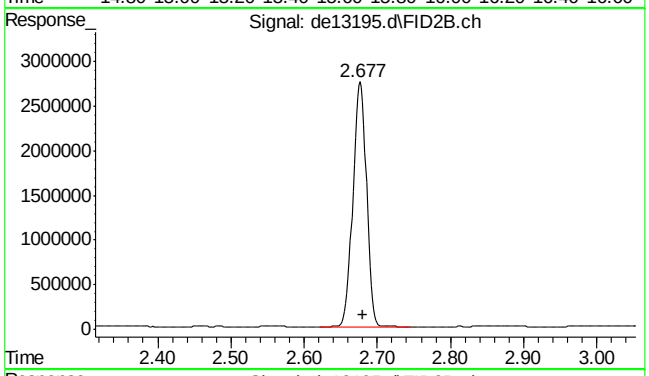
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



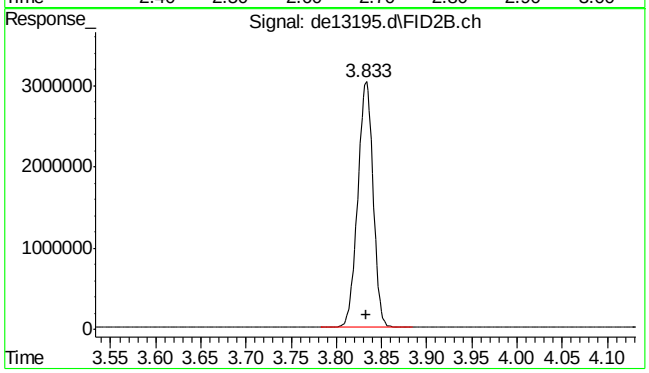
#22 bht

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



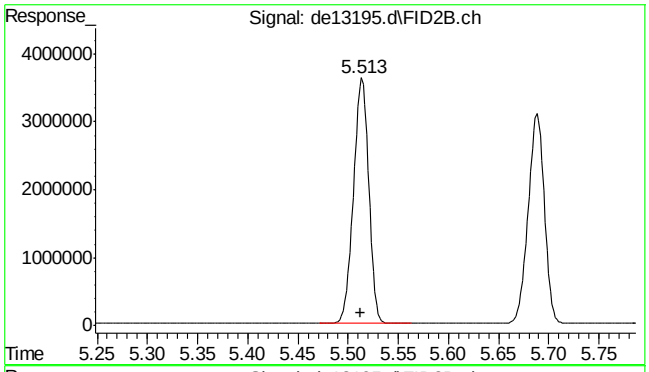
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

9.4.5

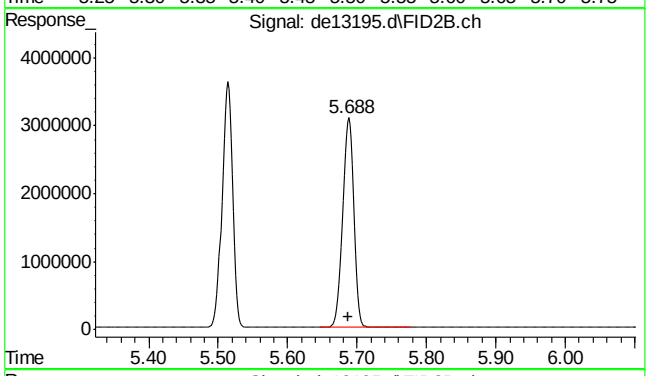
9

SGS ACCUTEST MC46340



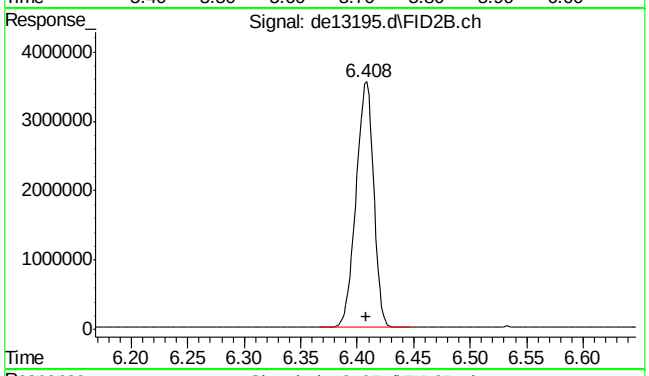
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



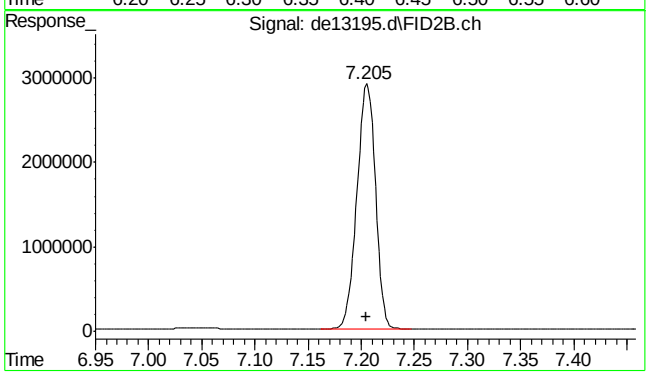
#28 c-12

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



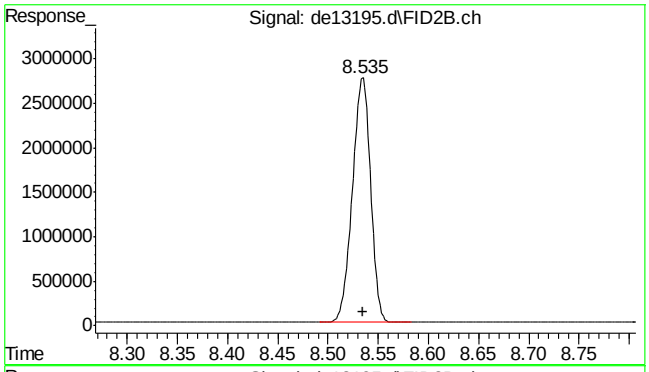
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

9.4.5

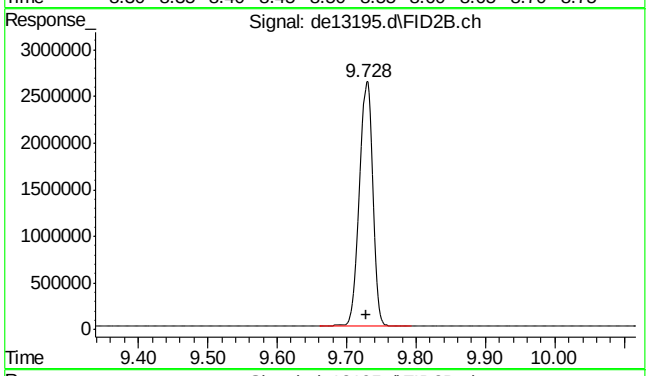
9

SGS ACCUTEST MC46340



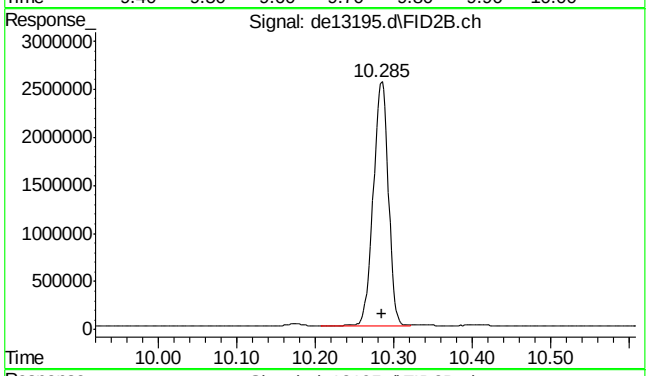
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



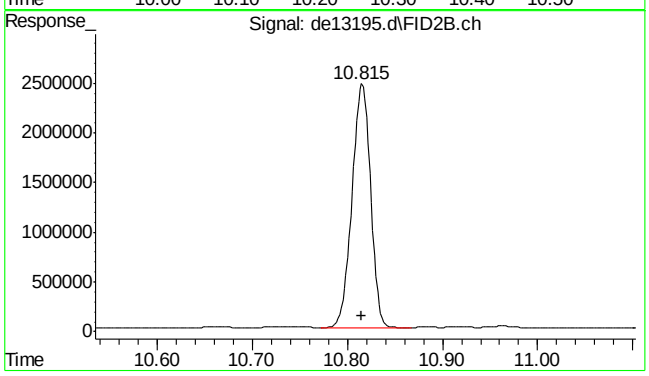
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



#33 c-19

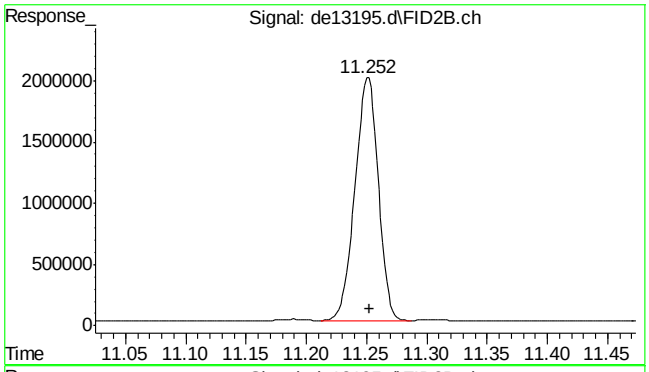
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



#34 c-20

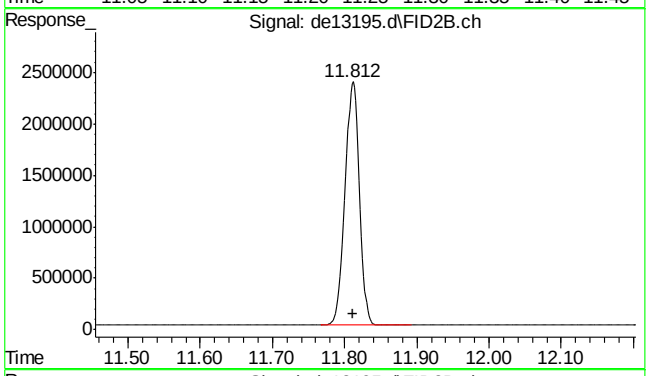
R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml

SGS ACCUTEST MC46340



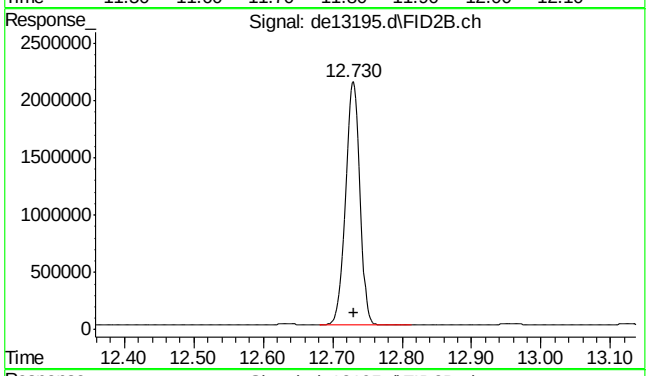
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



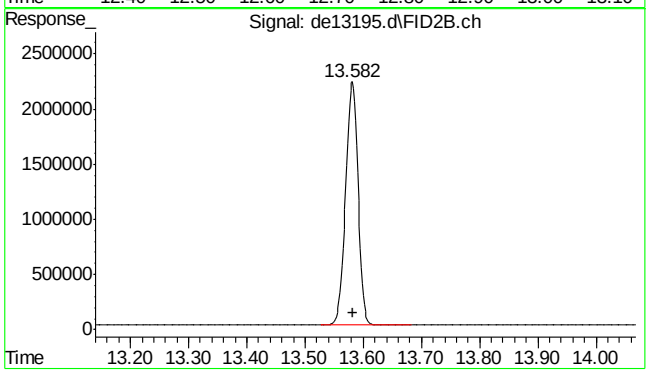
#36 c-22

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



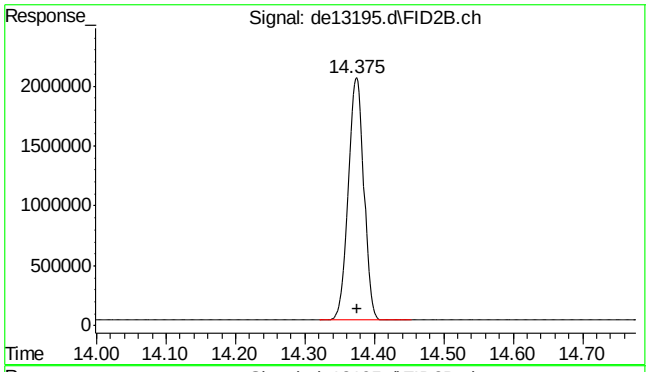
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml

9.4.5

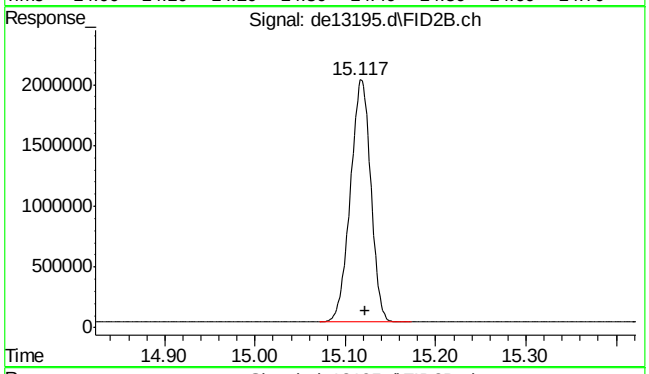
9

SGS ACCUTEST MC46340



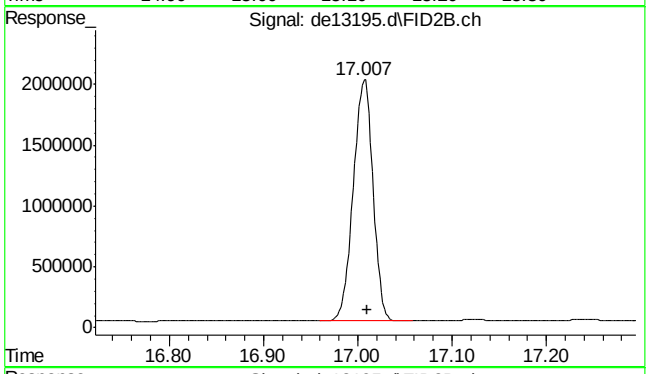
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



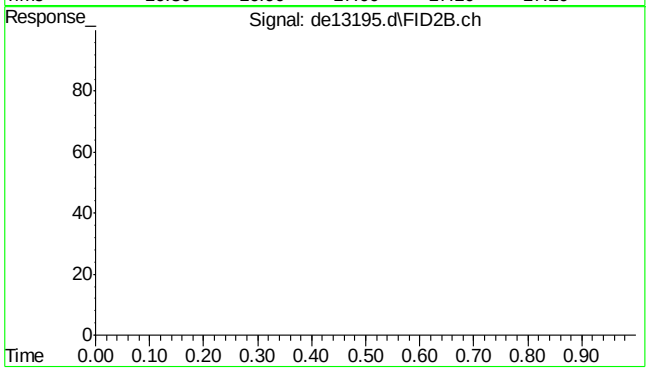
#40 c-30

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



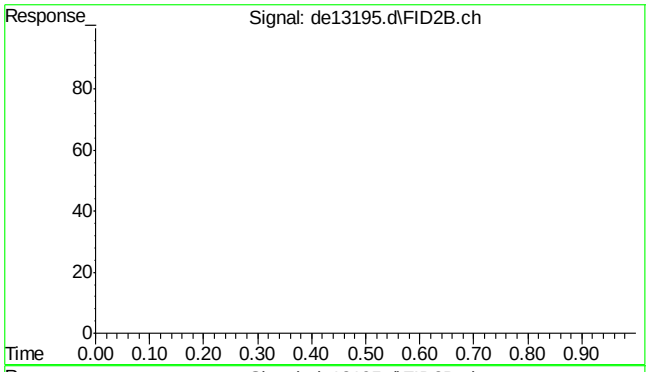
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.5

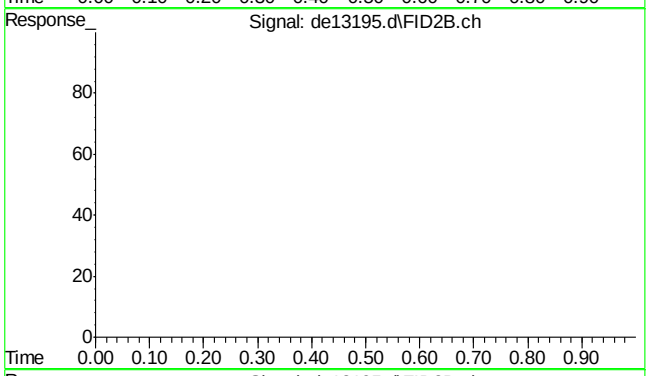
9

SGS ACCUTEST MC46340



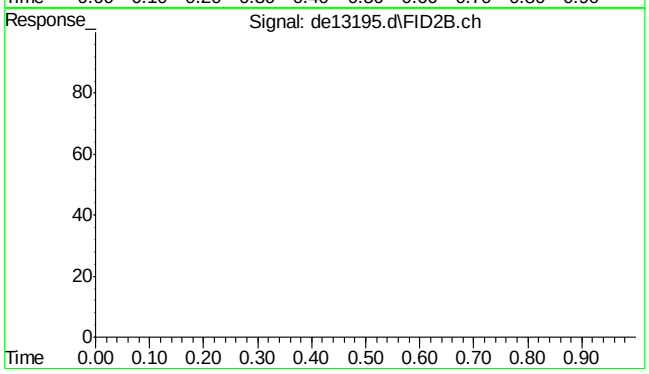
#43 bht

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

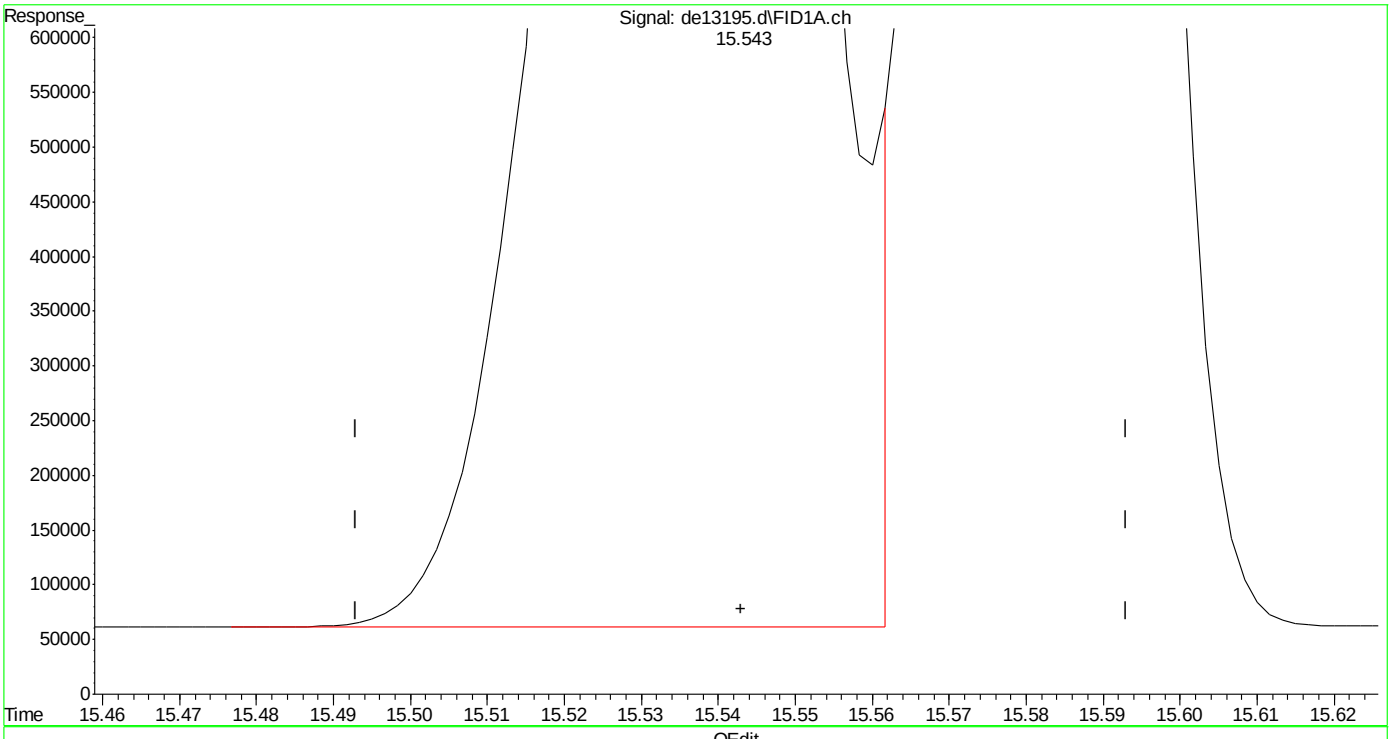
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : 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

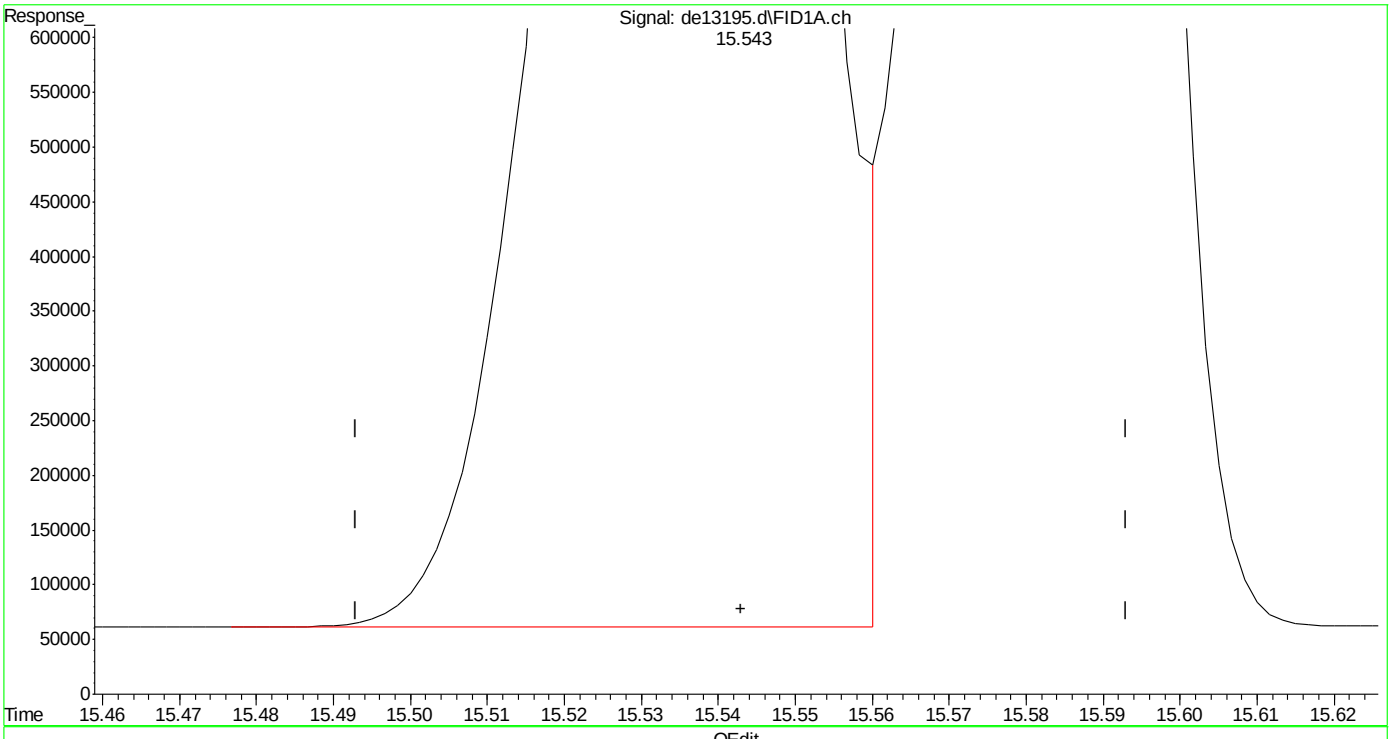
SGS ACCUTEST MC46340

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

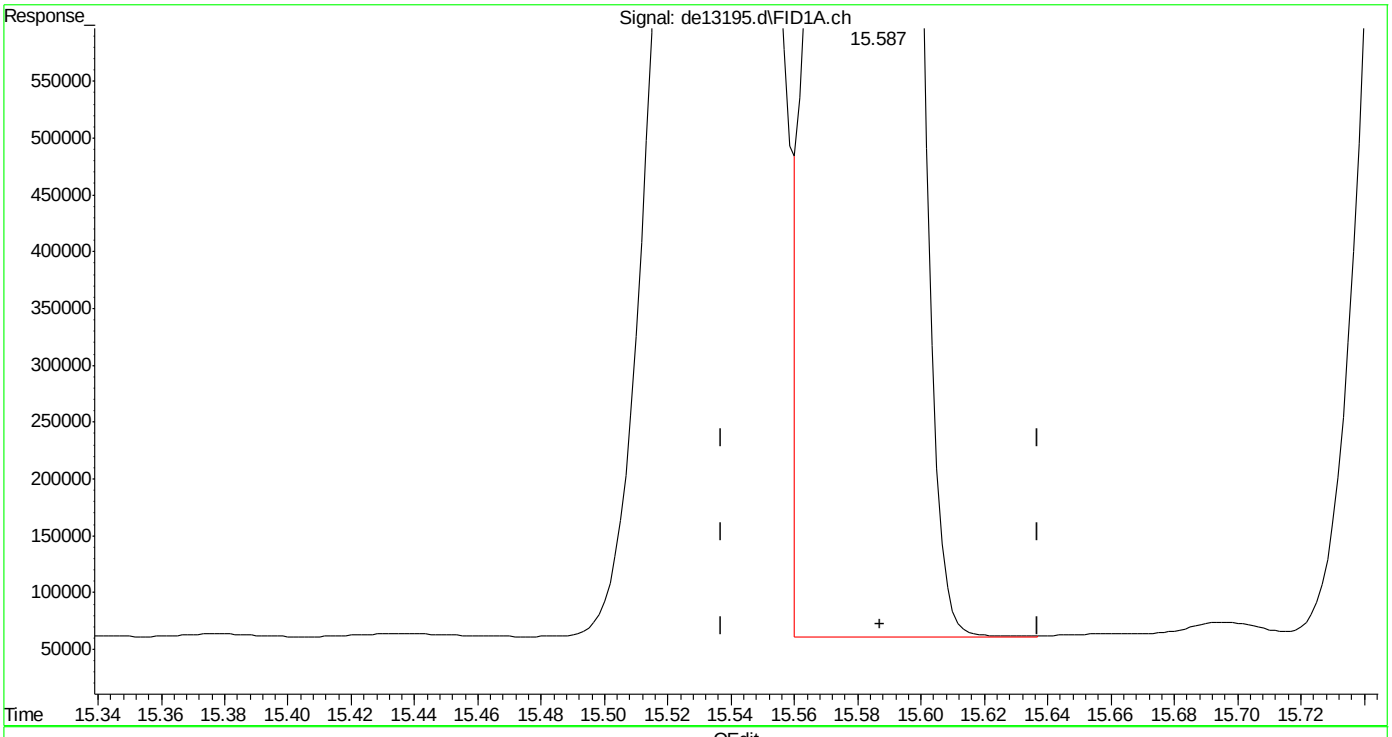
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:56:17 2016 Page: 1

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

SGS ACCUTEST MC46340

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 MC46340

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.

9.4.6

9

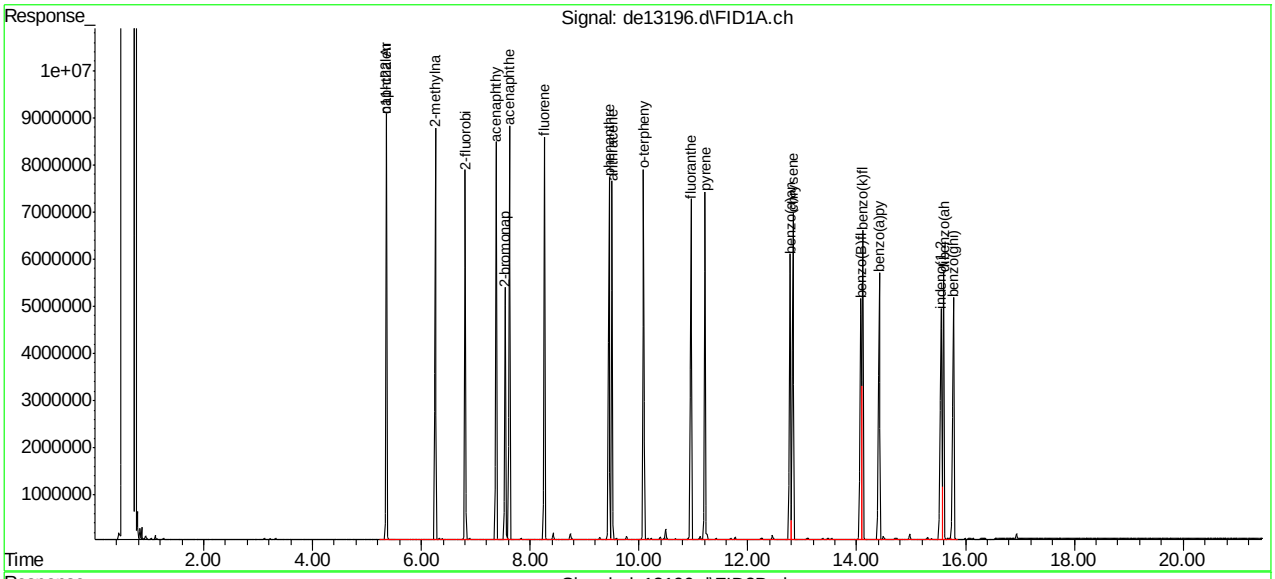
SGS ACCUTEST MC46340

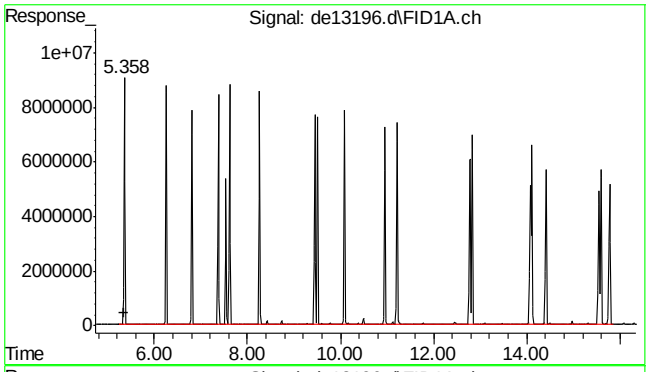
Quantitation Report (QT Reviewed)

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

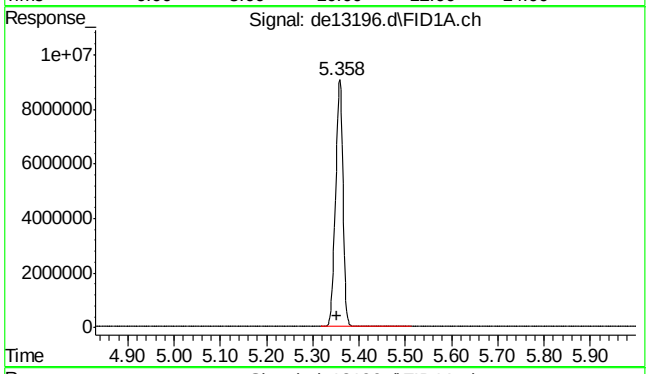
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





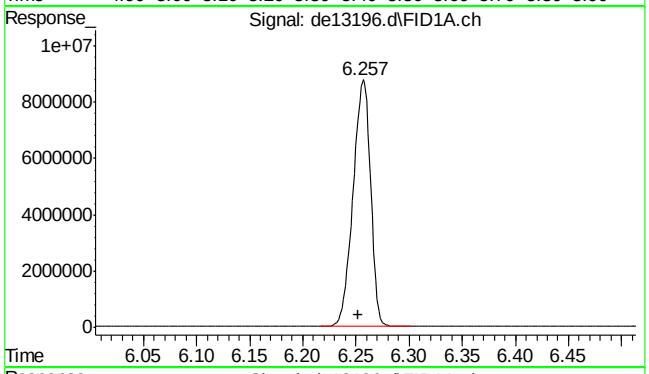
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



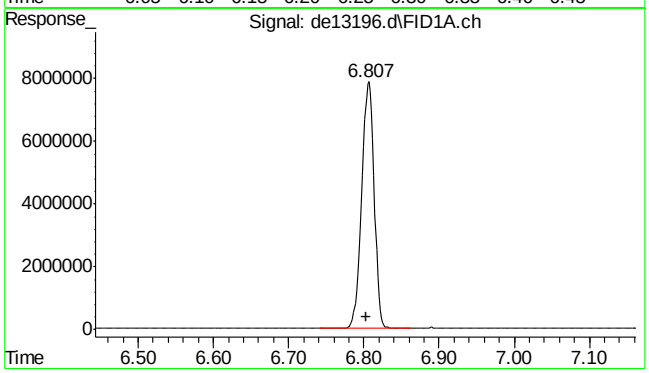
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



#3 2-methylnaphthalene

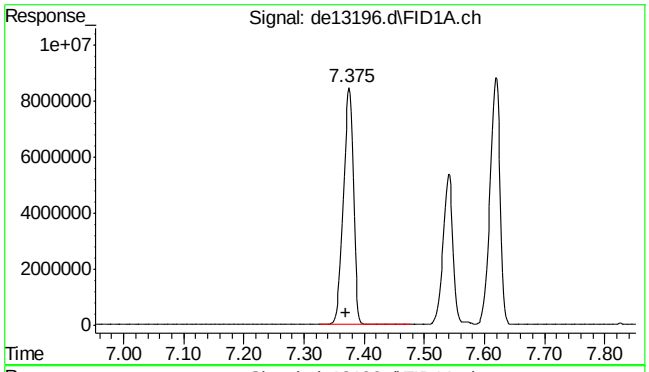
R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



#4 2-fluorobiphenyl

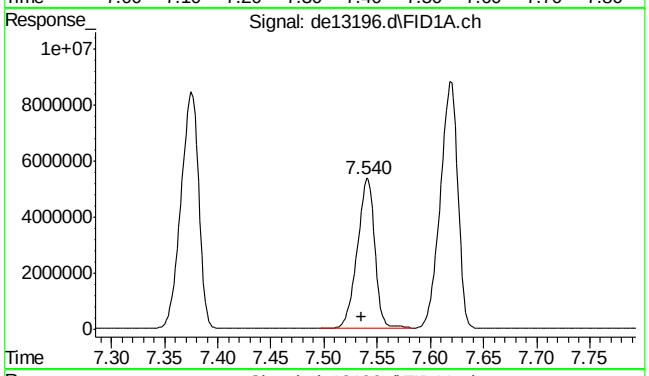
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml

SGS ACCUTEST MC46340



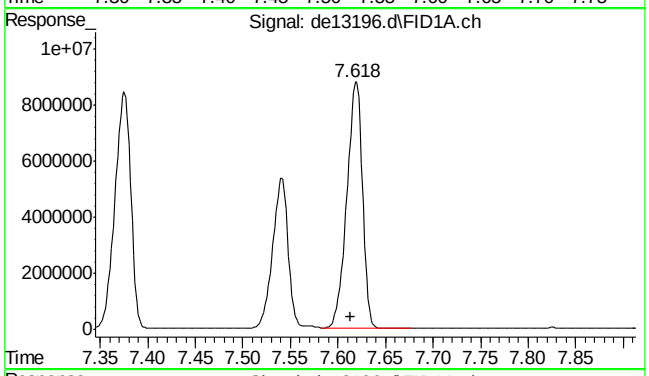
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



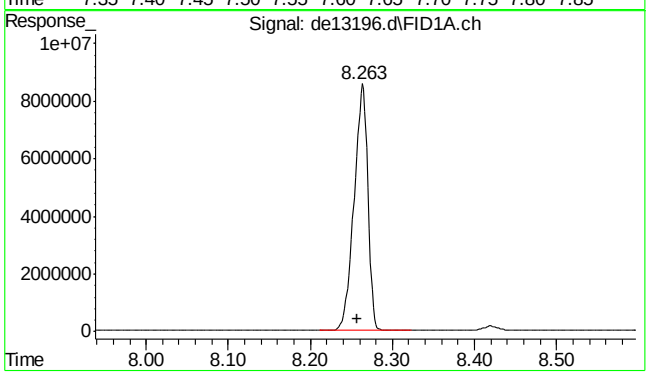
#6 2-bromonaphthalene

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



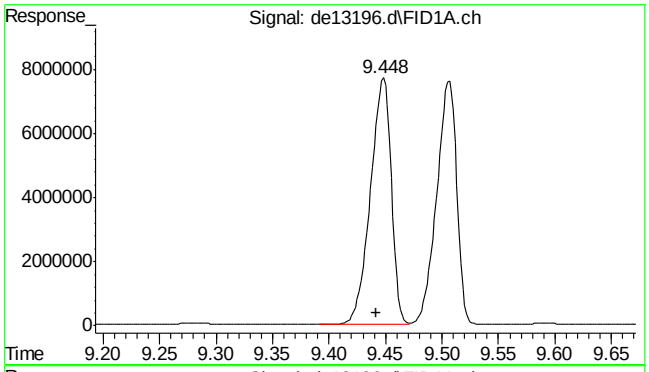
#8 fluorene

R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

9.4.6

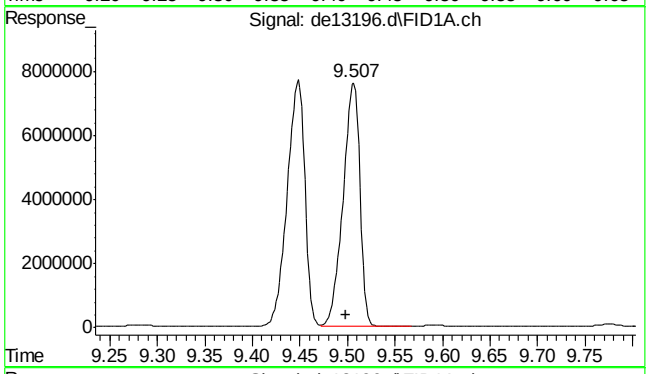
9

SGS ACCUTEST MC46340



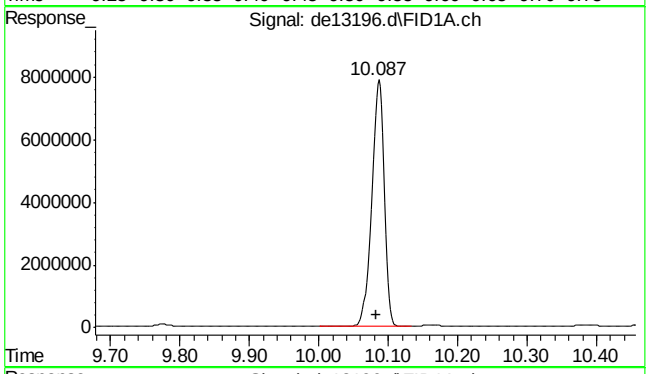
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



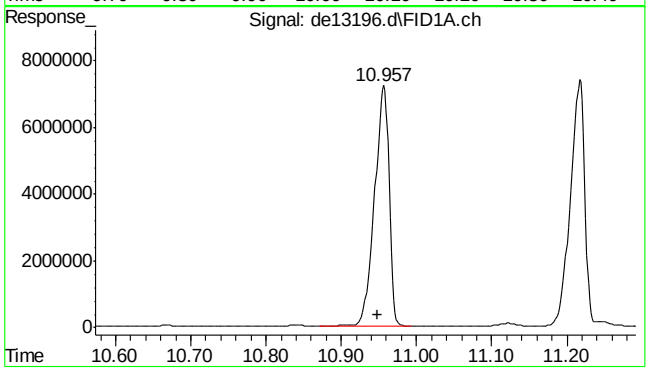
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



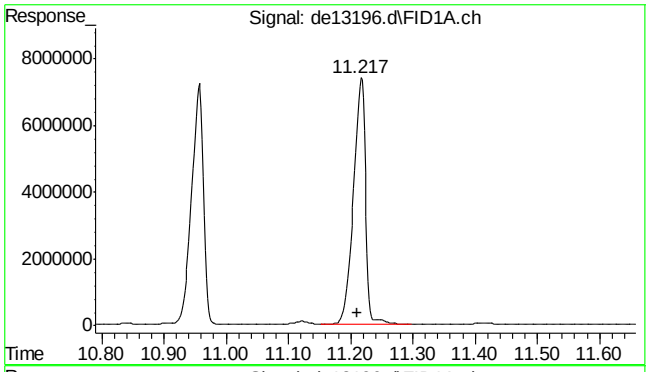
#11 o-terphenyl

R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



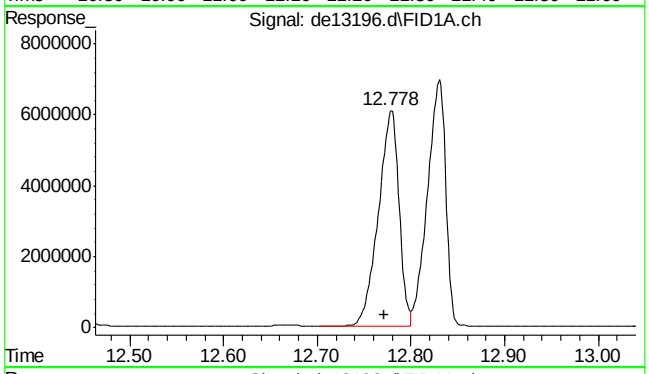
#12 fluoranthene

R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml



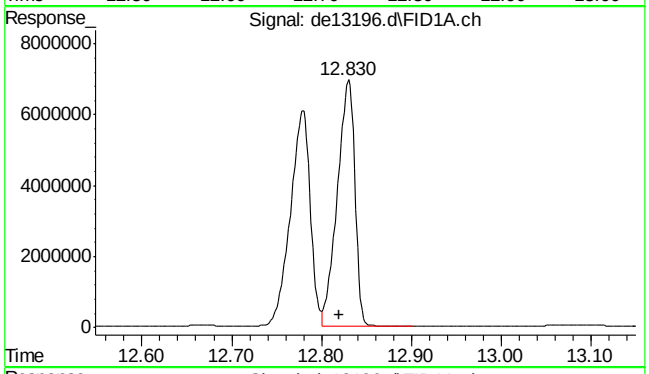
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



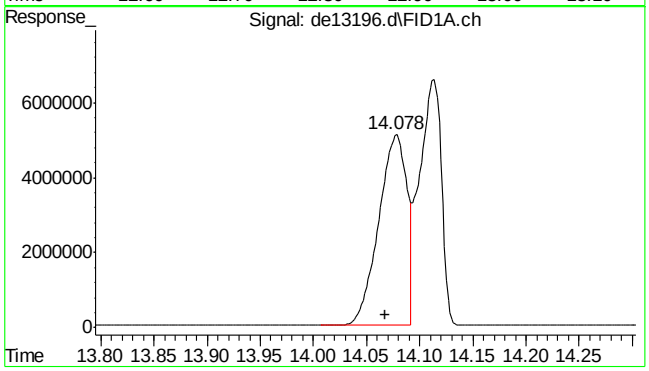
#14 benzo(a)anthracene

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

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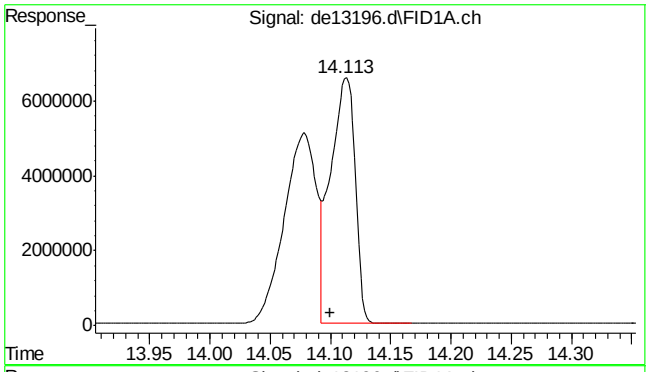
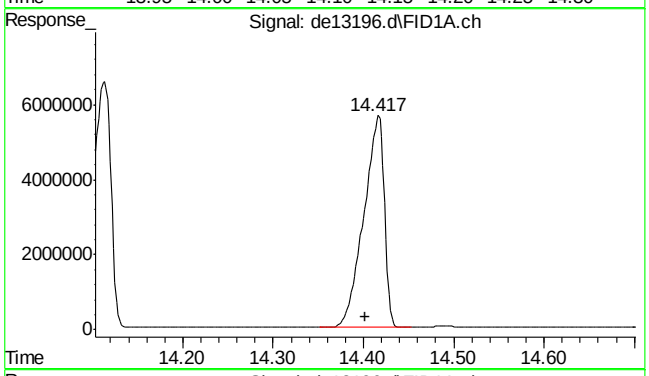


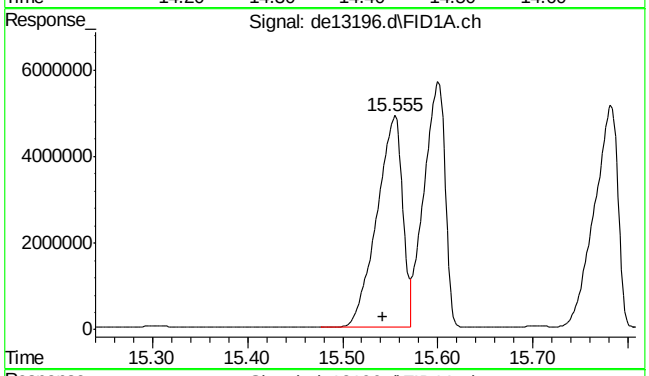
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



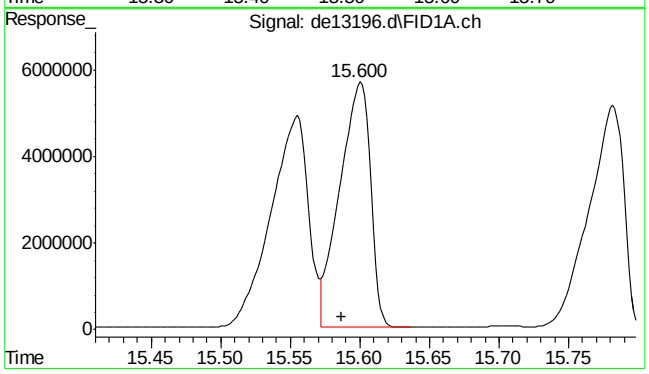
#18 benzo(a)pyrene

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



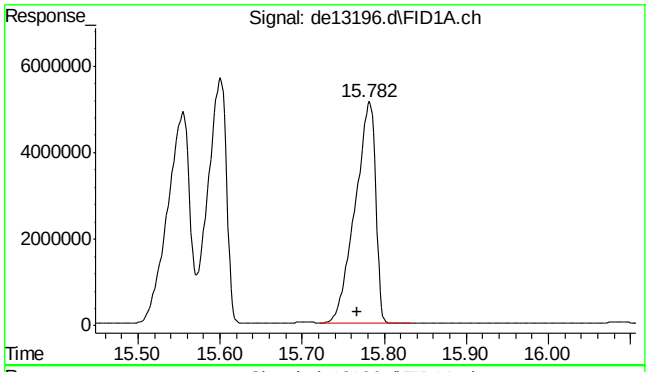
#20 dibenzo(ah)anthracene

R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml

9.4.6

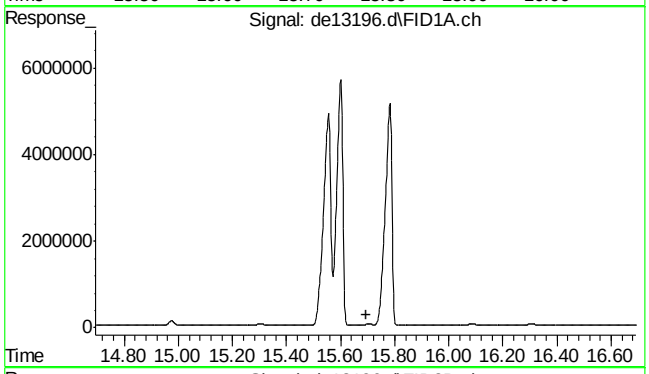
9

SGS ACCUTEST MC46340



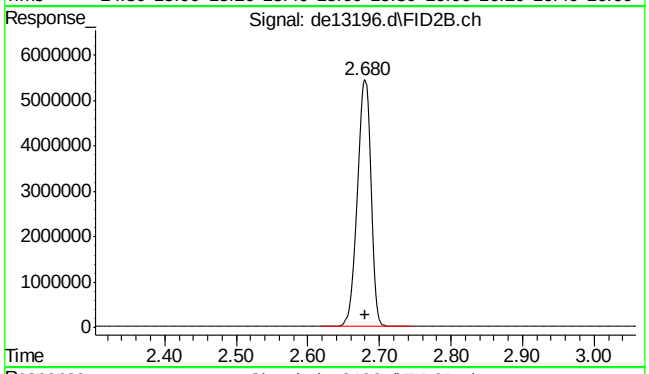
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



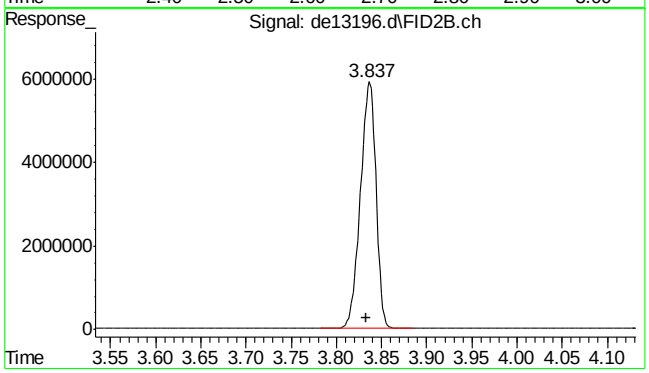
#22 bht

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



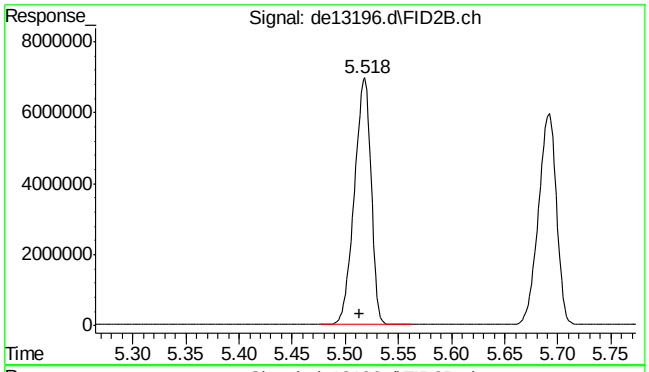
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

9.4.6

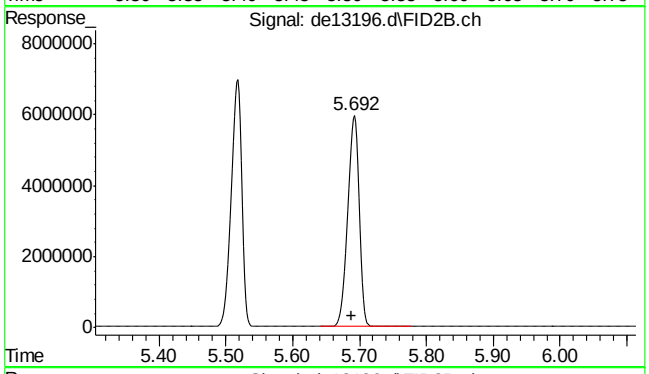
9

SGS ACCUTEST MC46340



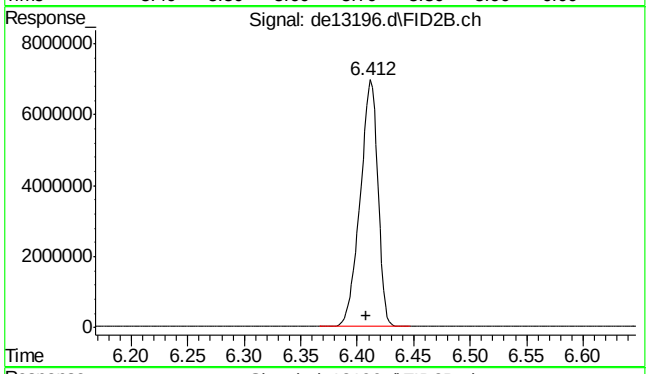
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



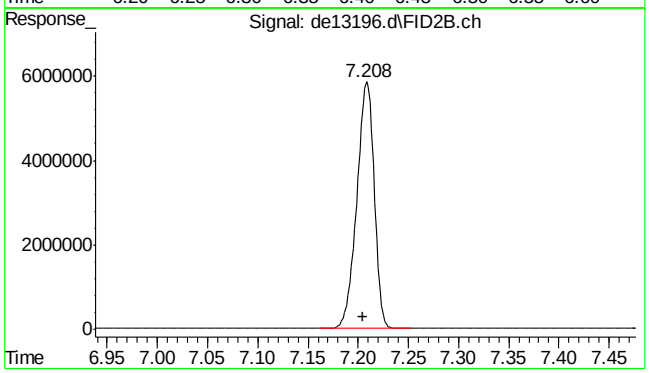
#28 c-12

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



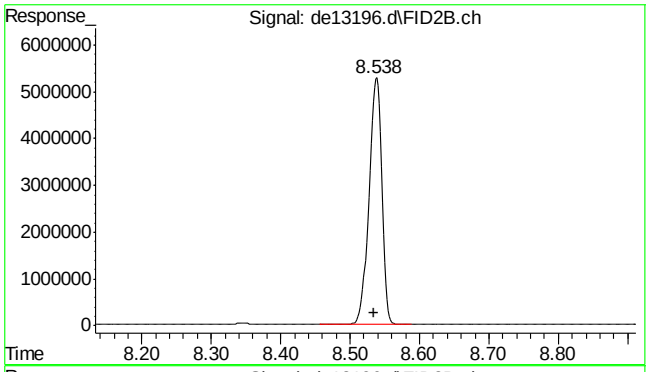
#30 c-14

R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml

9.4.6

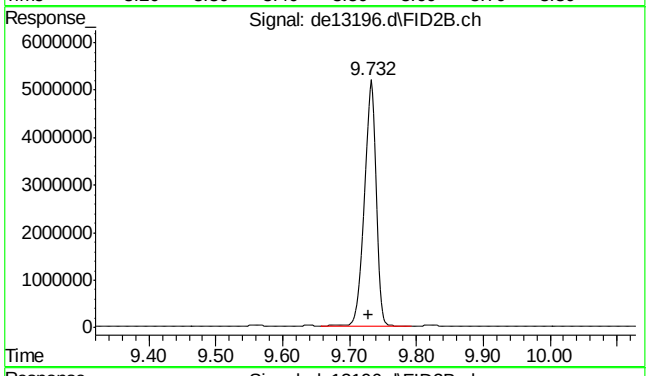
9

SGS ACCUTEST MC46340



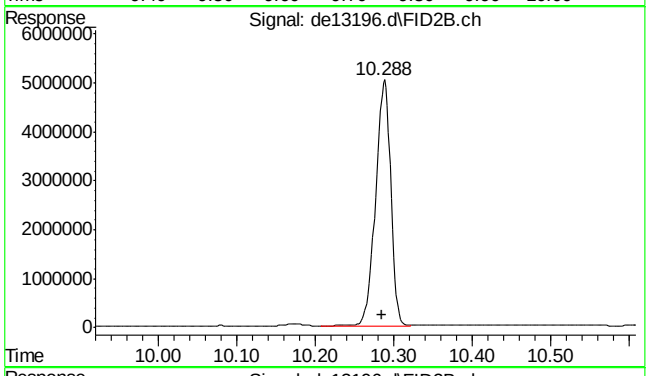
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



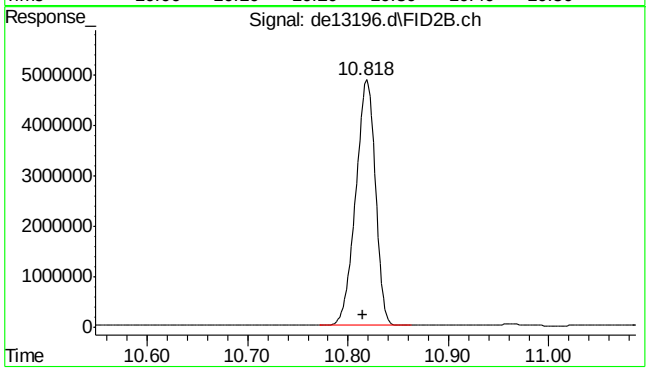
#32 c-18

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



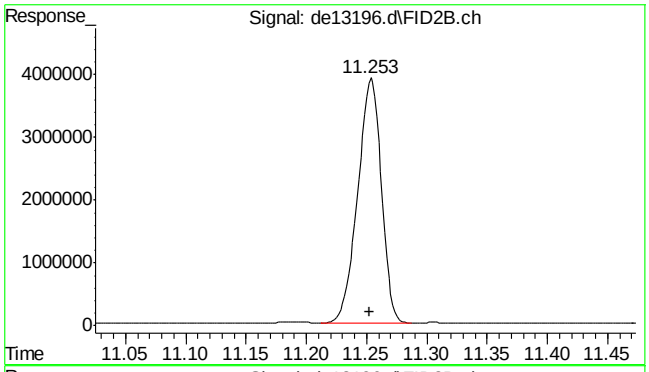
#34 c-20

R.T.: 10.818 min
Delta R.T.: 0.003 min
Response: 6591283
Conc: 91.77 µg/ml

9.4.6

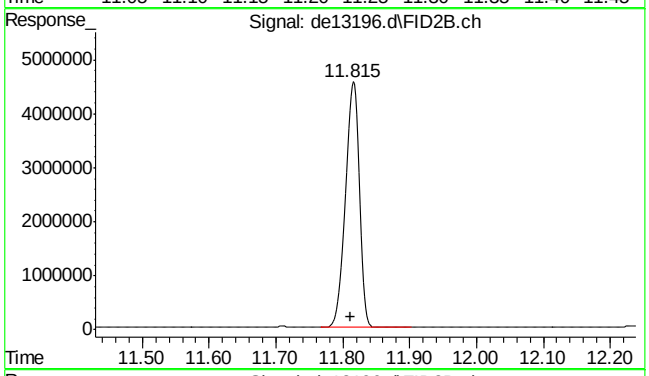
9

SGS ACCUTEST MC46340



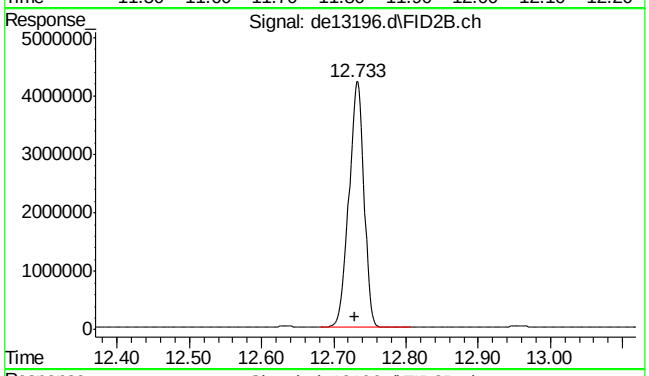
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



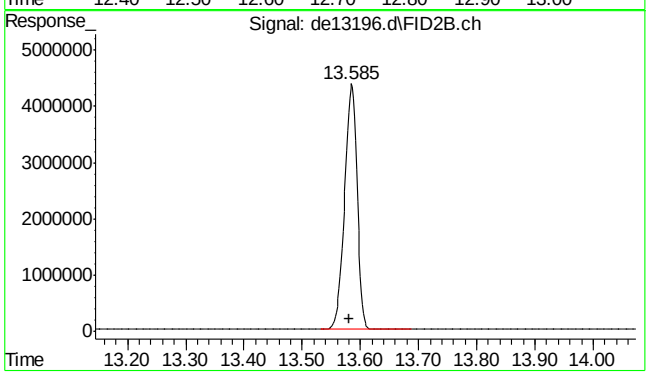
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



#37 c-24

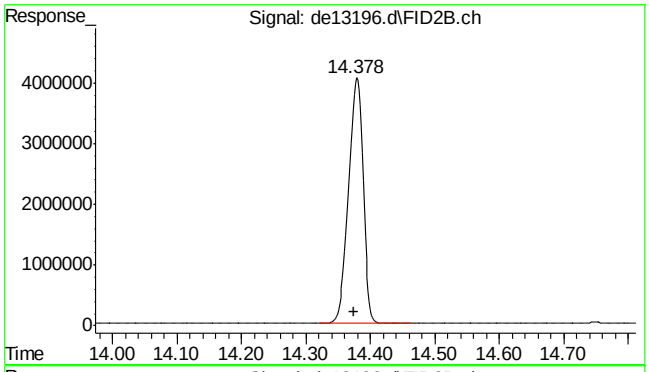
R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



#38 c-26

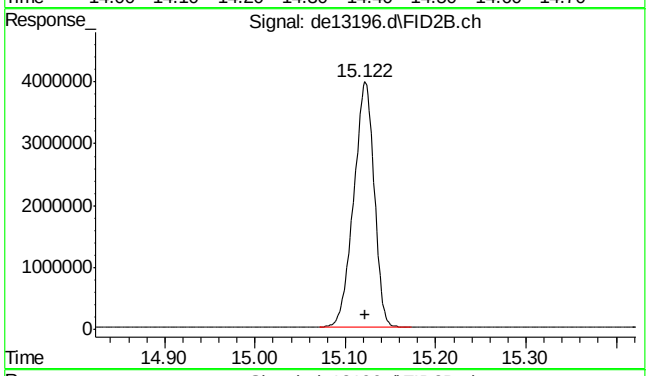
R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml

SGS ACCUTEST MC46340



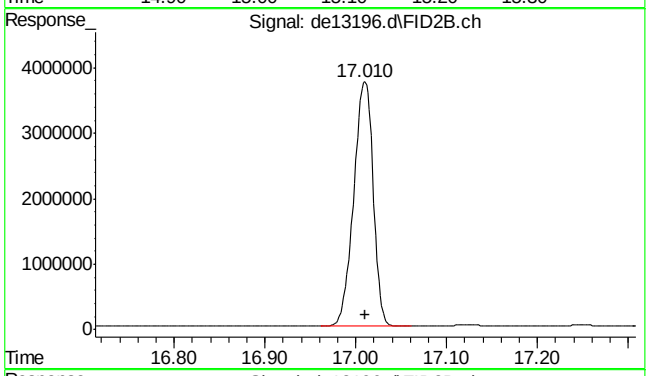
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



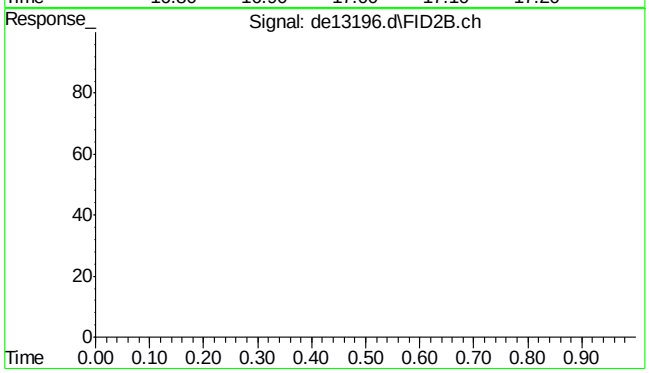
#40 c-30

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



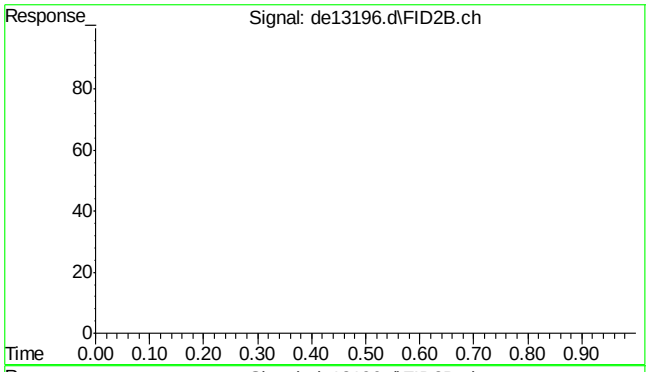
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.6

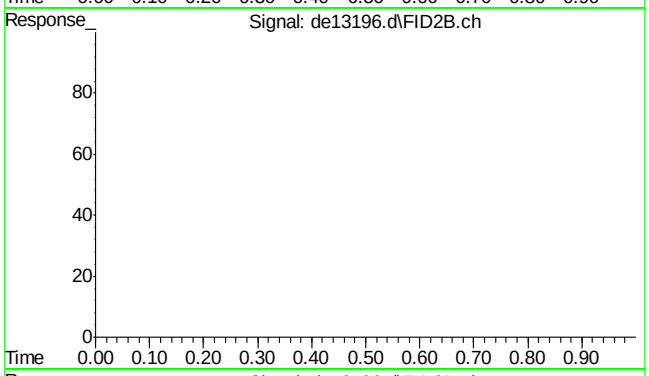
9

SGS ACCUTEST MC46340



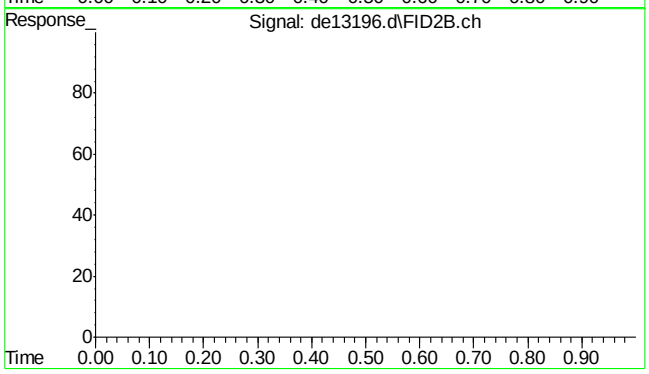
#43 bht

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

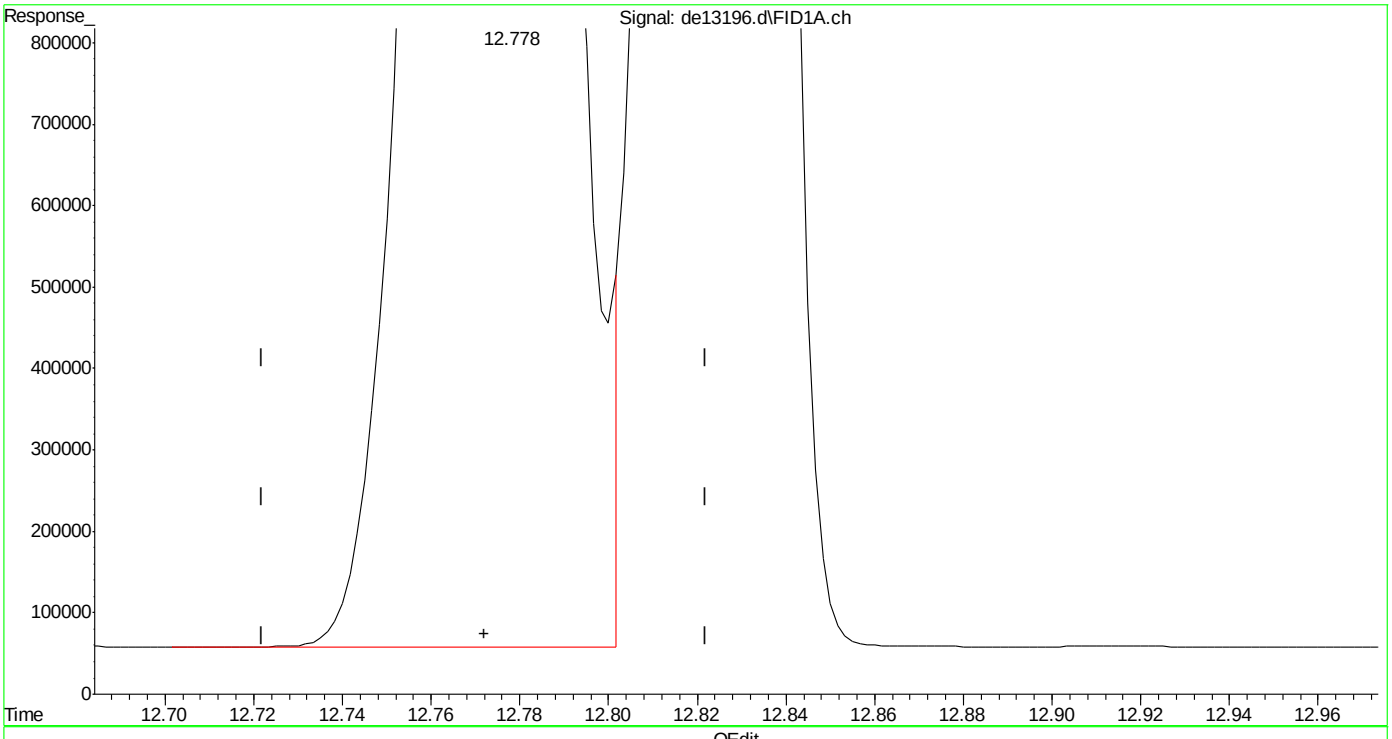
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

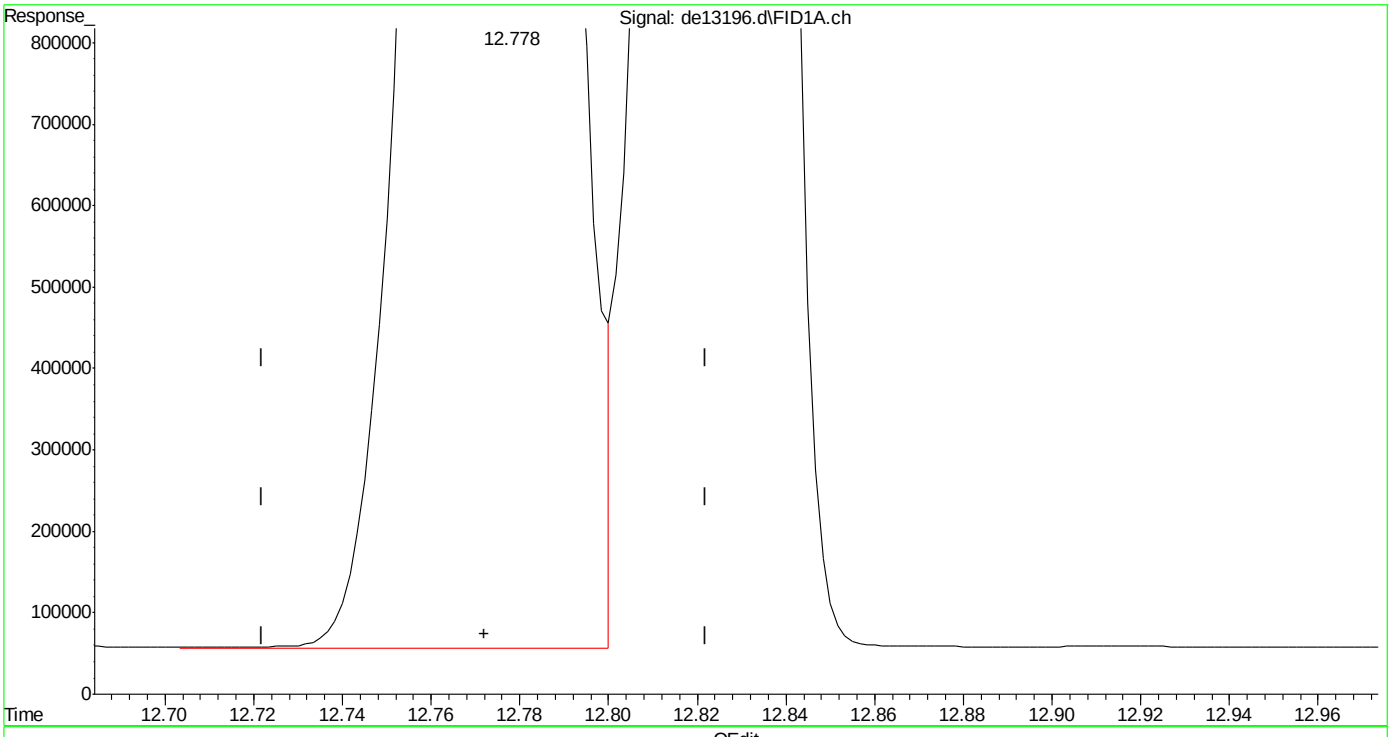
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:59:36 2016

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

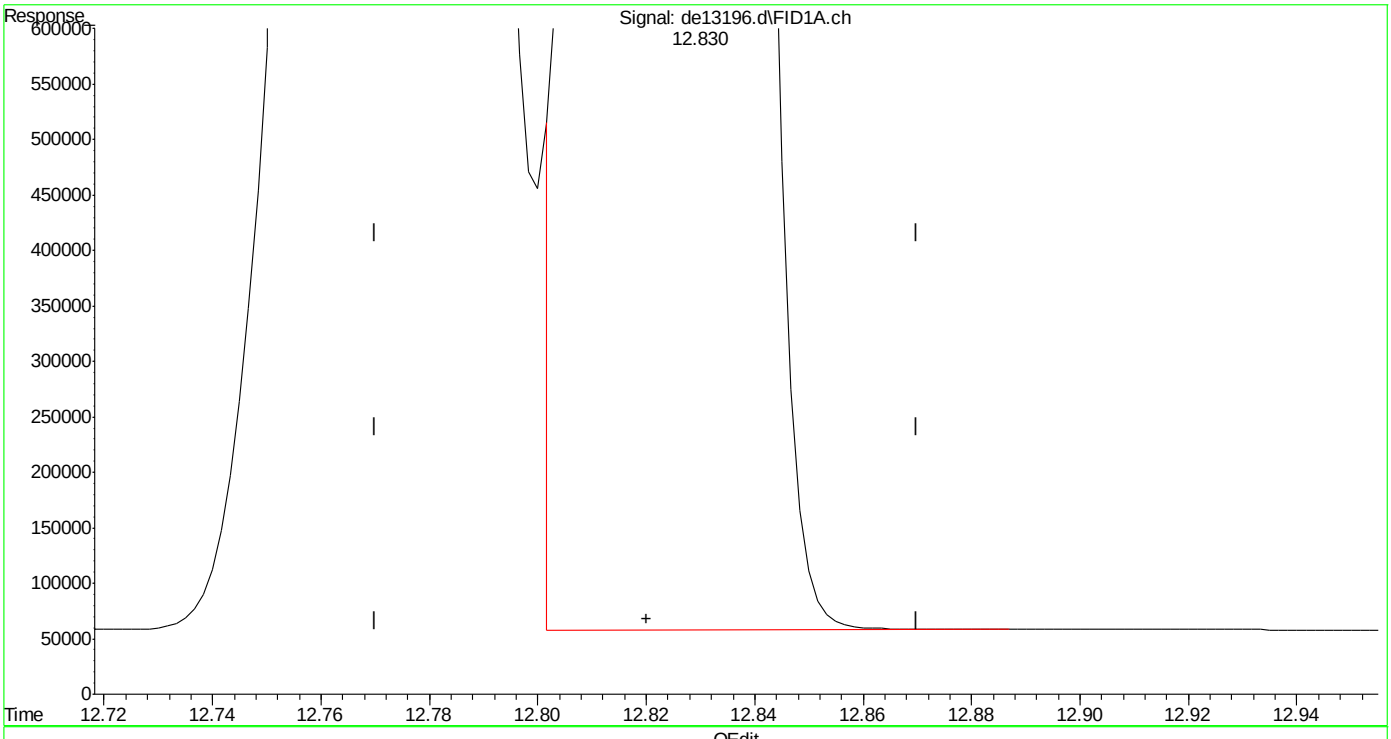
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:00:52 2016

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

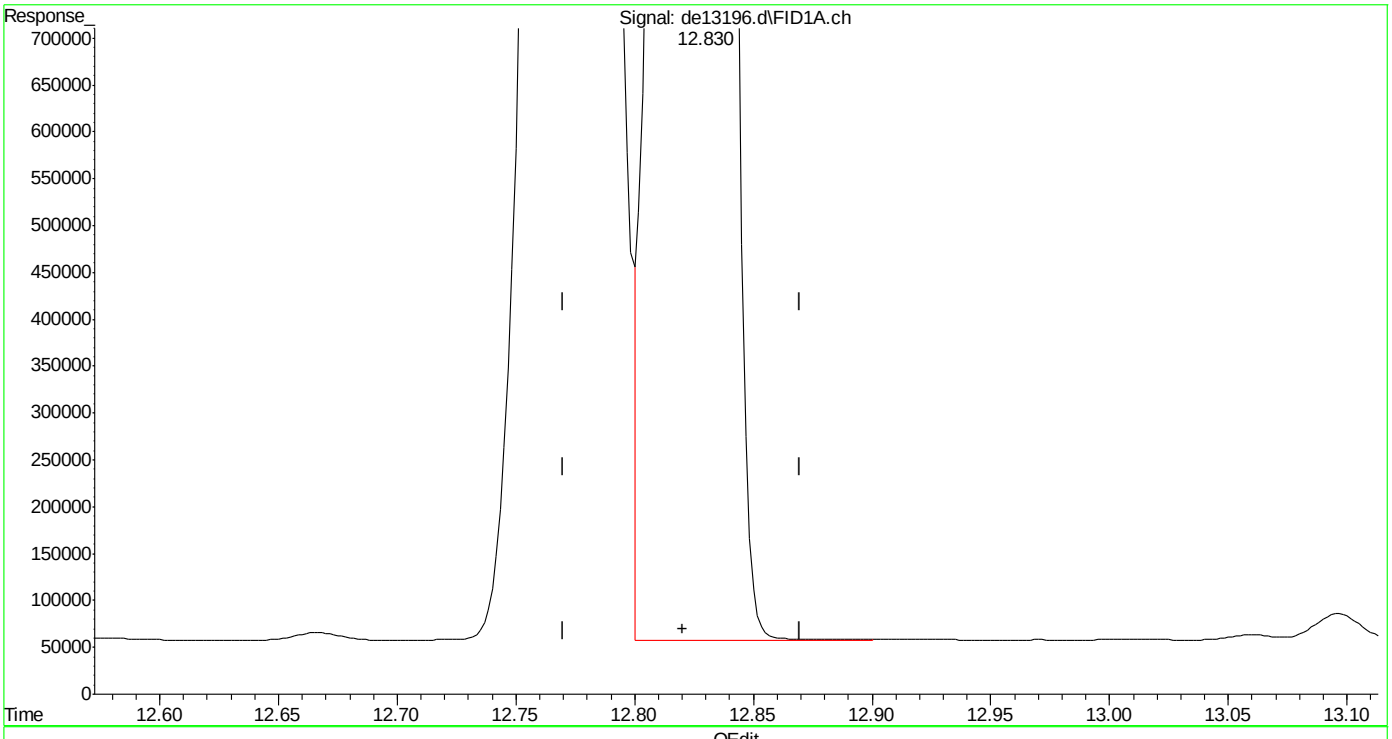
SGS ACCUTEST MC46340

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

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.

9.4.7

9

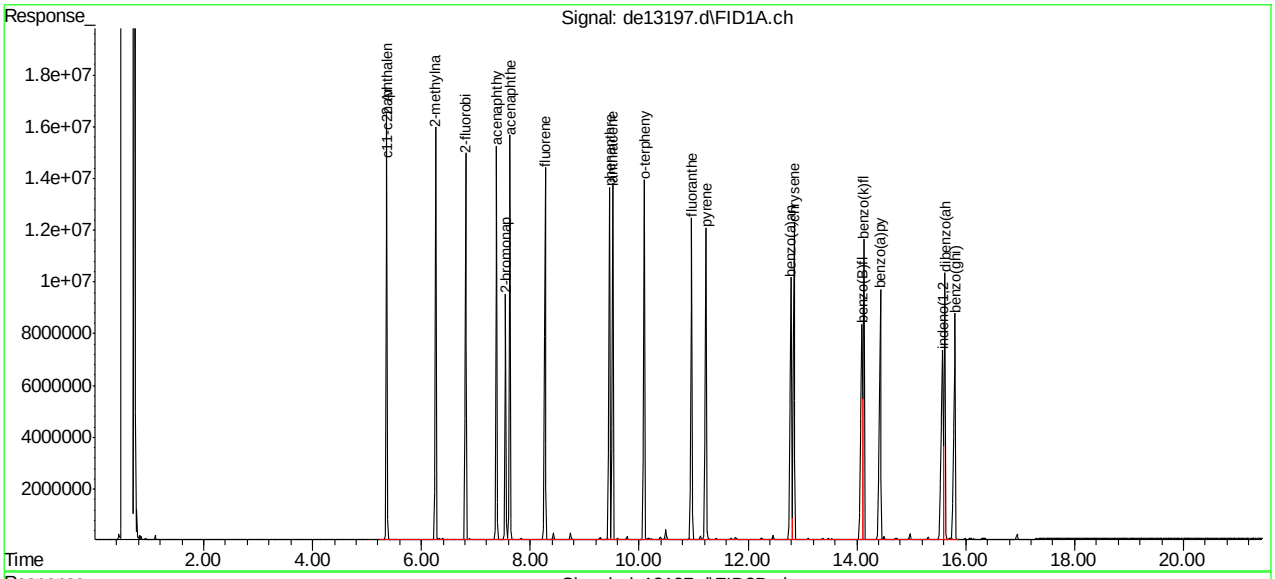
SGS ACCUTEST MC46340

Quantitation Report (QT Reviewed)

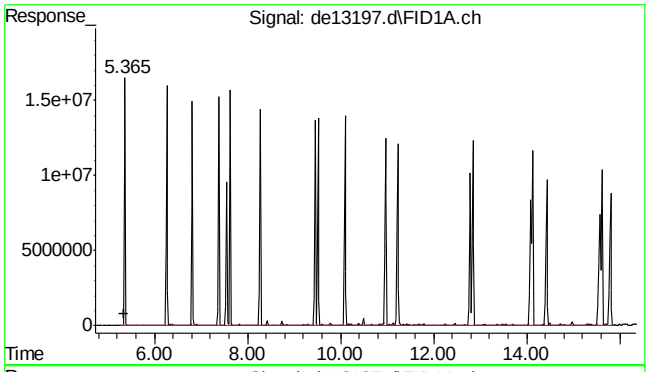
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

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 :

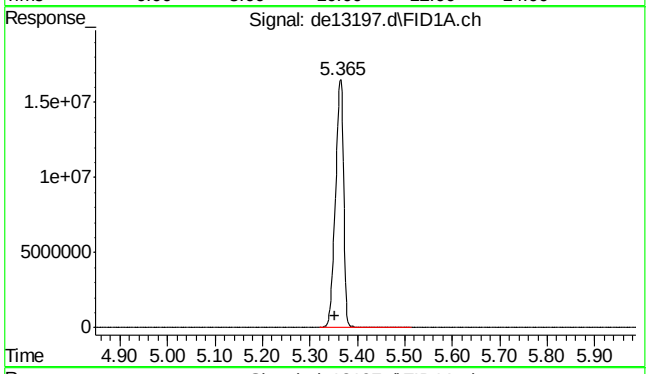


SGS ACCUTEST MC46340



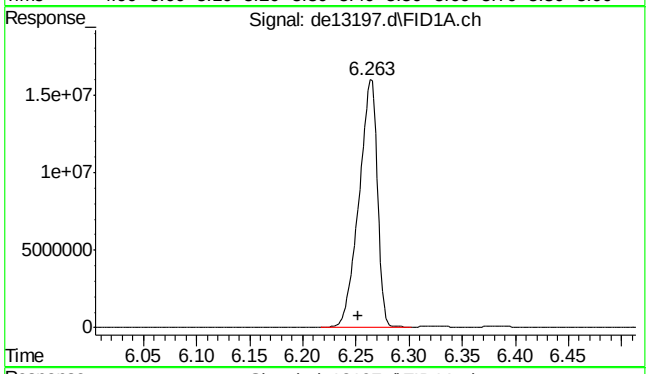
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



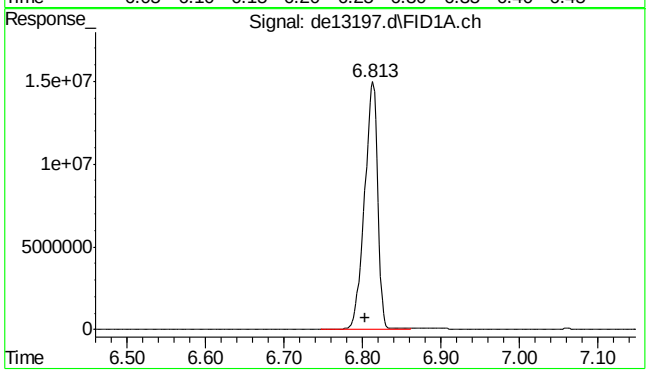
#2 naphthalene

R.T.: 5.365 min
Delta R.T.: 0.012 min
Response: 19450620
Conc: 187.64 µg/ml



#3 2-methylnaphthalene

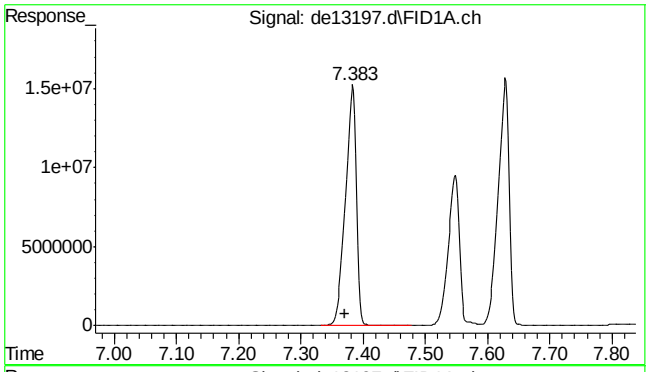
R.T.: 6.263 min
Delta R.T.: 0.011 min
Response: 19131536
Conc: 185.70 µg/ml



#4 2-fluorobiphenyl

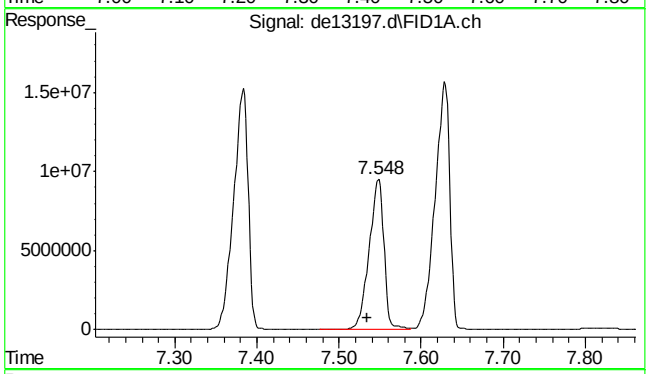
R.T.: 6.813 min
Delta R.T.: 0.010 min
Response: 17171697
Conc: 185.15 µg/ml

SGS ACCUTEST MC46340



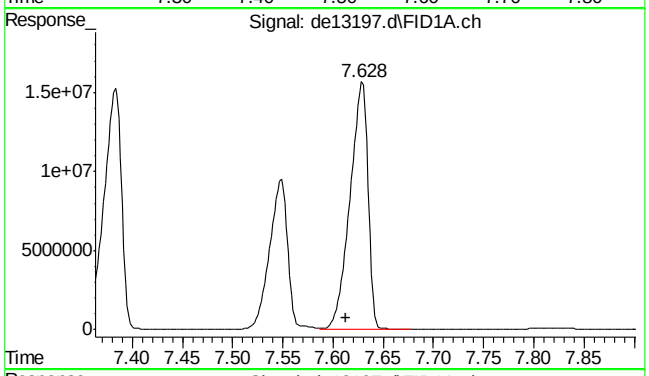
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



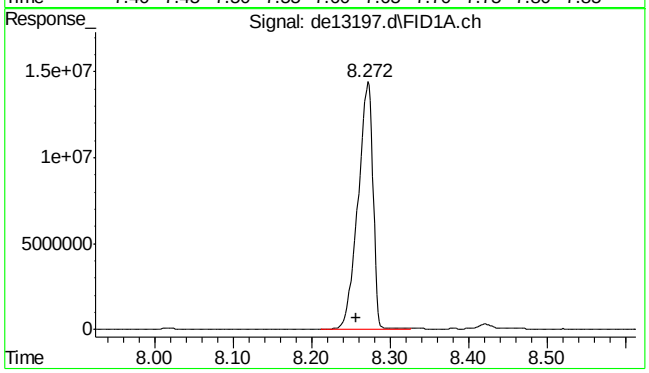
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



#7 acenaphthene

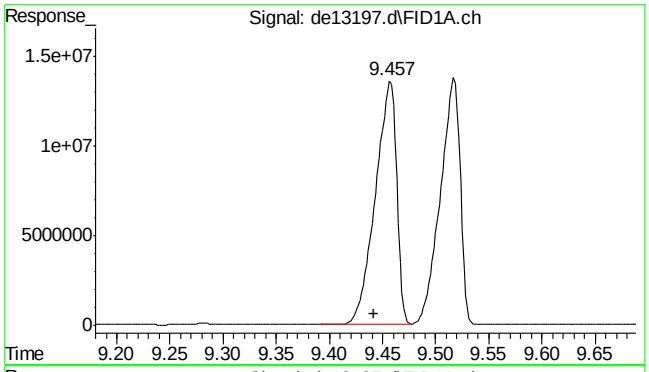
R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



#8 fluorene

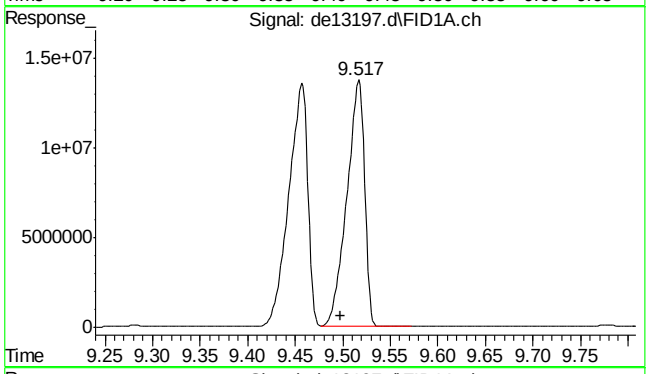
R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml

SGS ACCUTEST MC46340



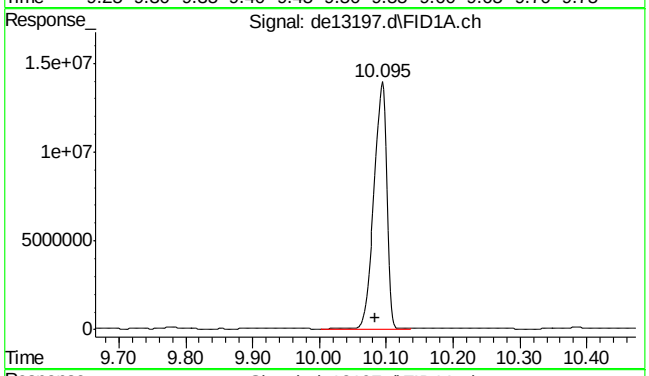
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



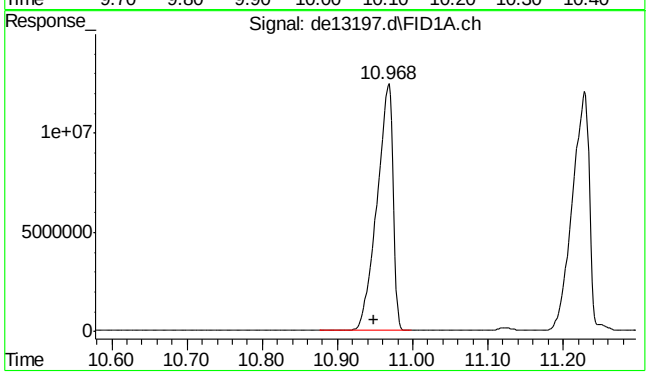
#10 anthracene

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



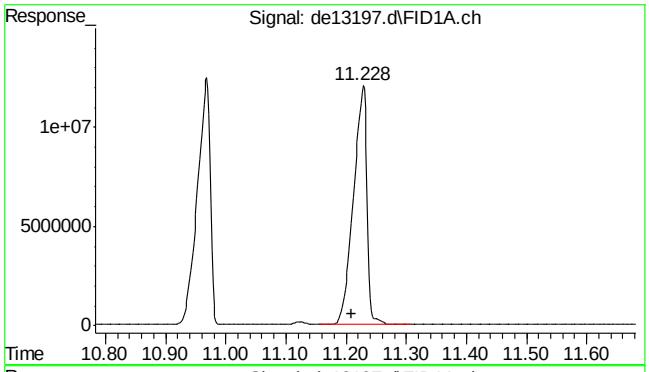
#12 fluoranthene

R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml

9.4.7

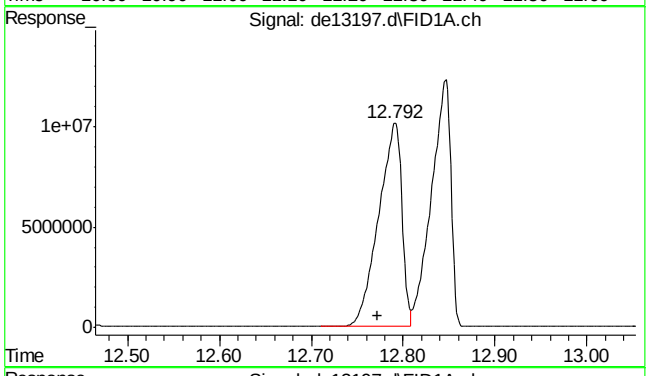
9

SGS ACCUTEST MC46340



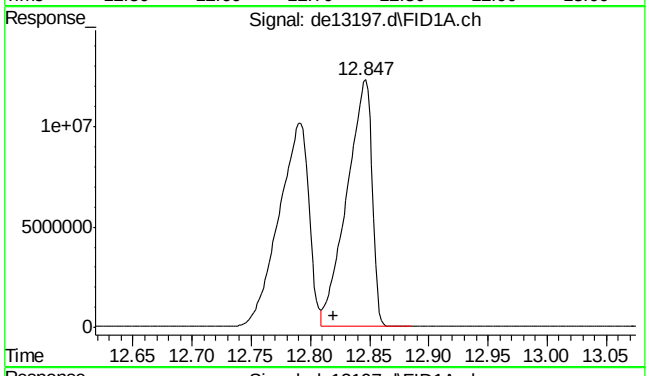
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



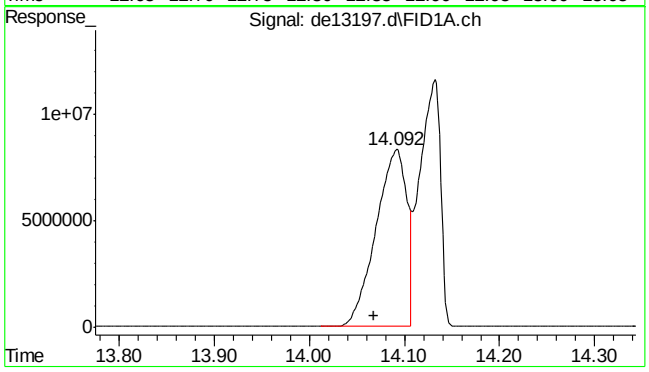
#14 benzo(a)anthracene

R.T.: 12.792 min
Delta R.T.: 0.020 min
Response: 17872955
Conc: 183.62 µg/ml m



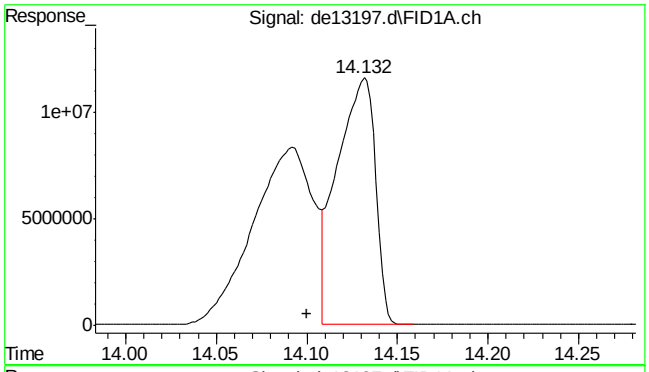
#15 chrysene

R.T.: 12.847 min
Delta R.T.: 0.027 min
Response: 18069681
Conc: 184.43 µg/ml m



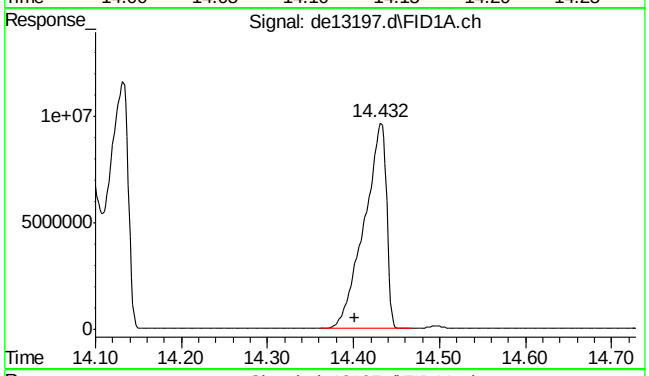
#16 benzo(B)fluoranthene

R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml



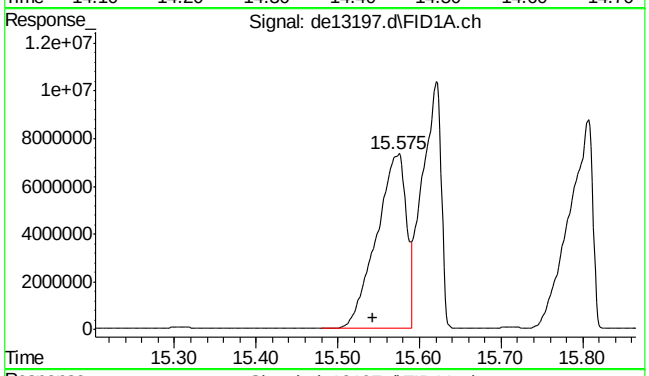
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



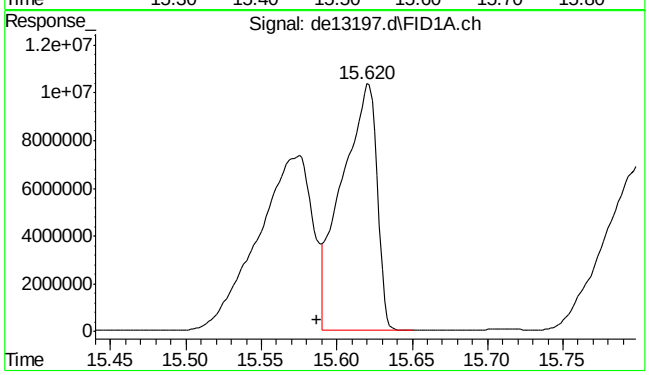
#18 benzo(a)pyrene

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

9.4.7

9

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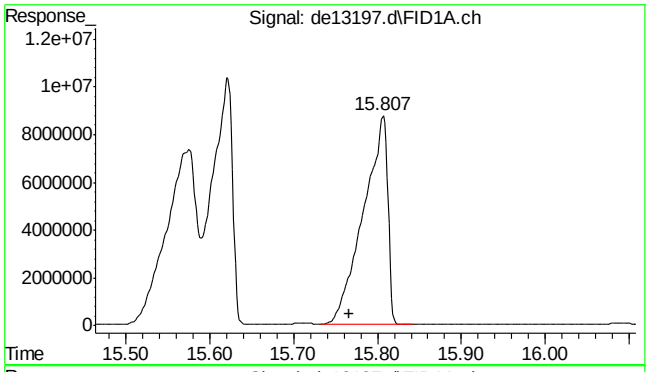
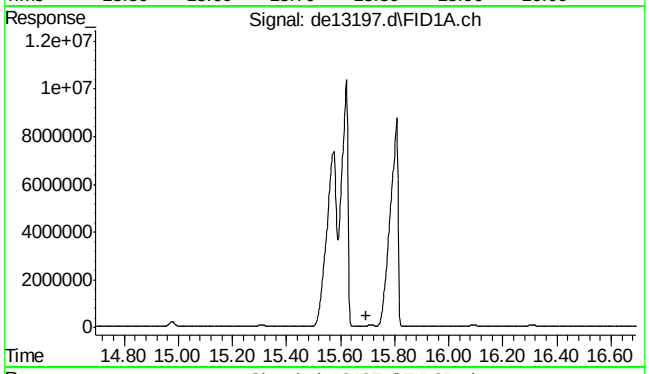


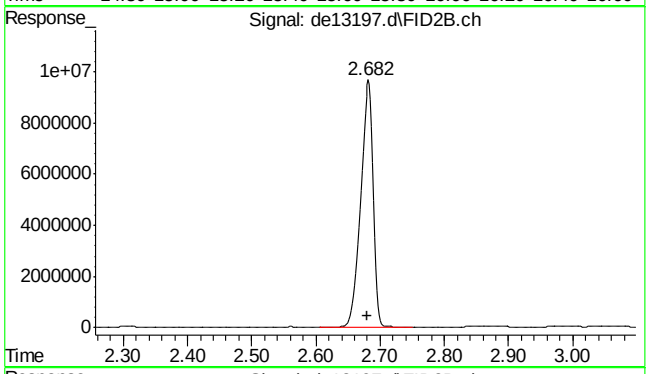
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



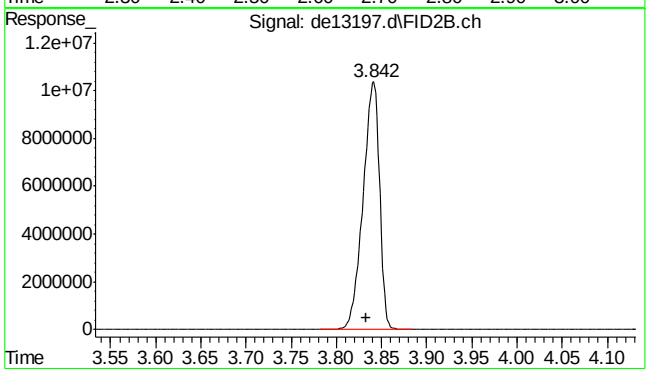
#22 bht

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



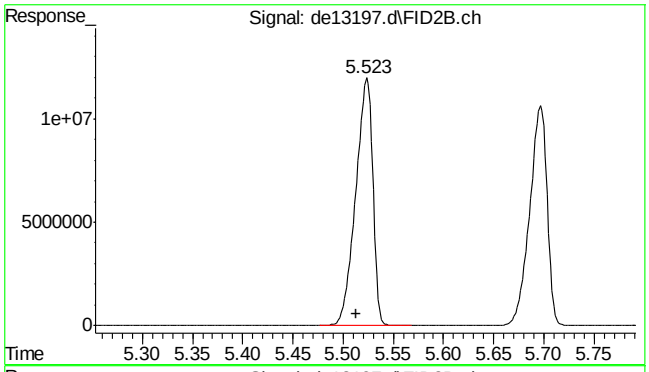
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.4.7

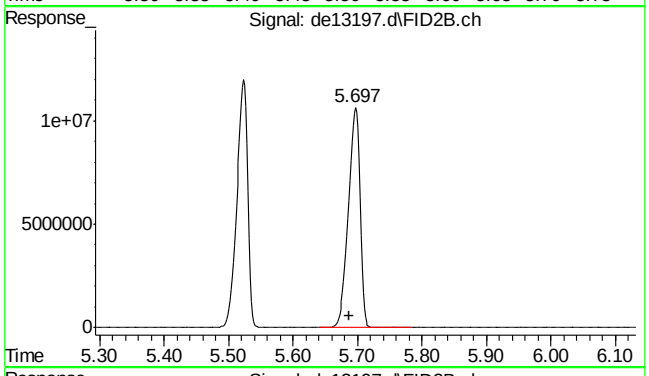
9

SGS ACCUTEST MC46340



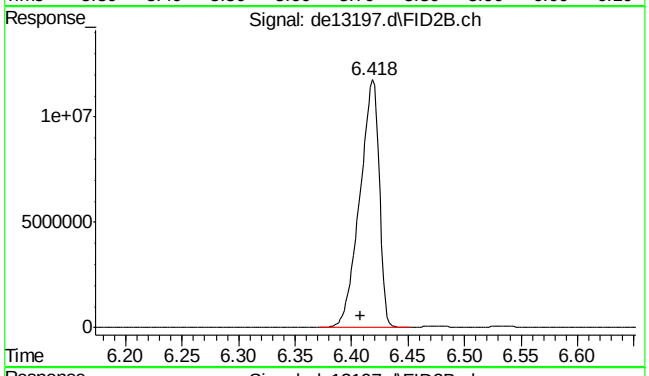
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



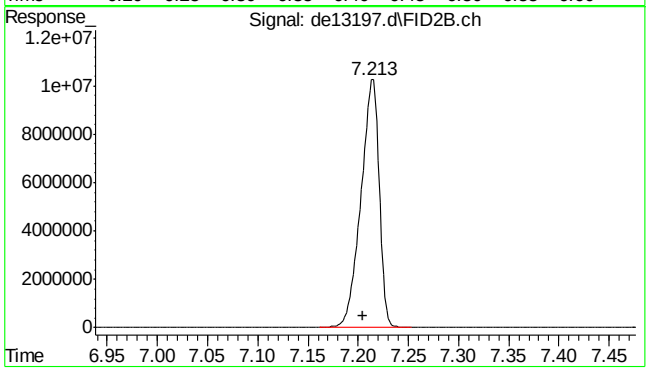
#28 c-12

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



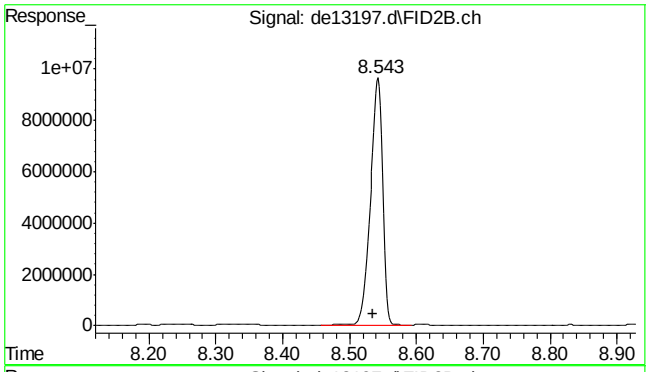
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.4.7

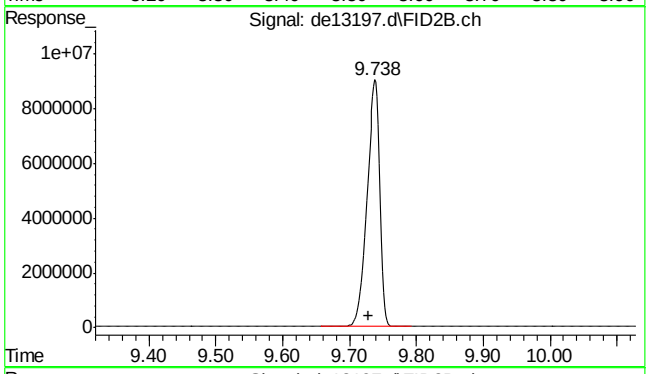
9

SGS ACCUTEST MC46340



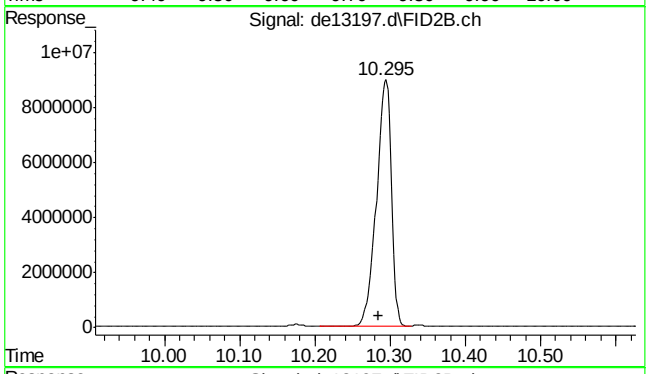
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



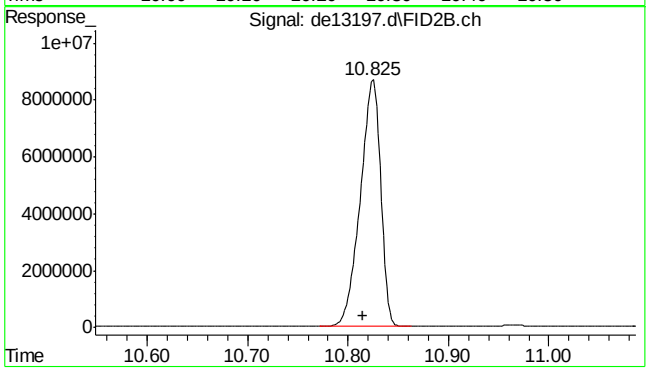
#32 c-18

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



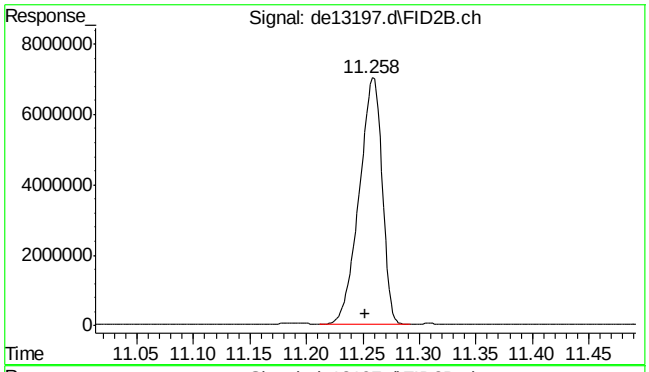
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.4.7

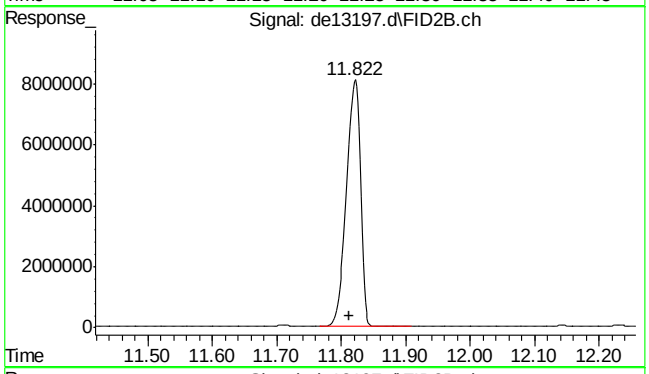
9

SGS ACCUTEST MC46340



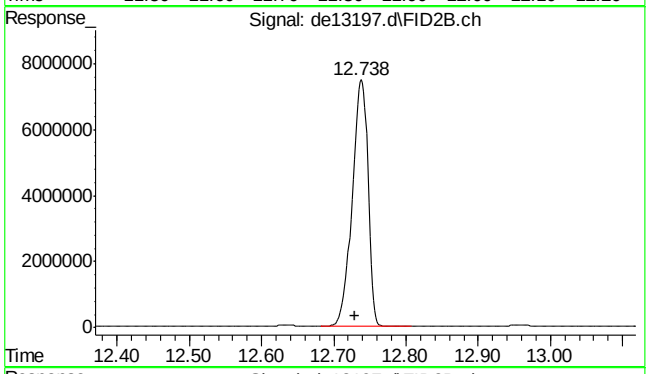
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



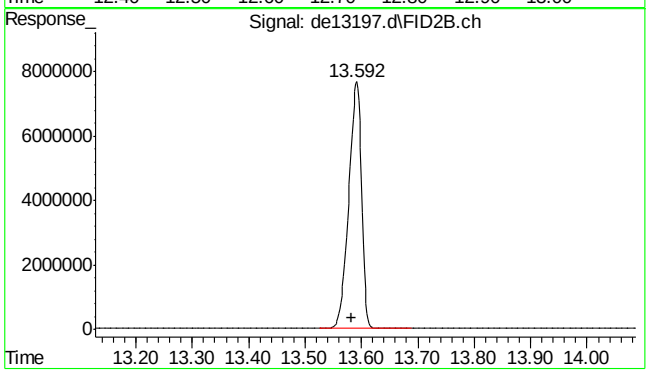
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



#37 c-24

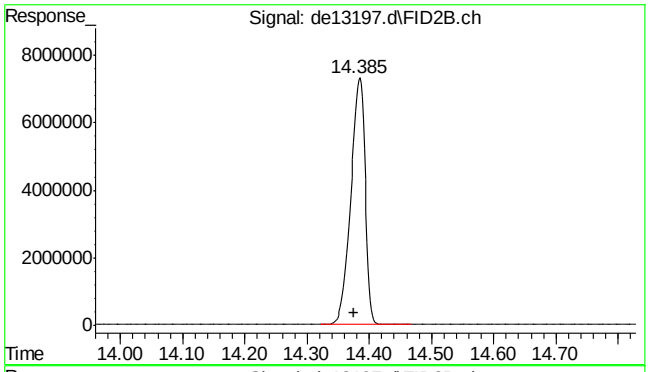
R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



#38 c-26

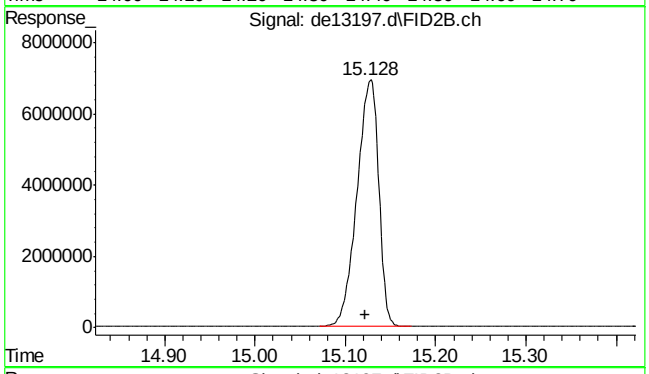
R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml

SGS ACCUTEST MC46340



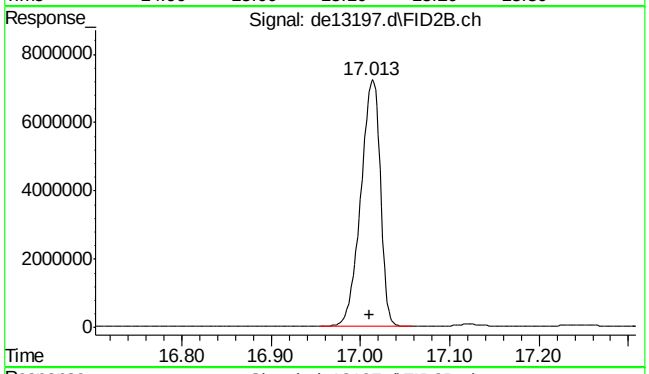
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



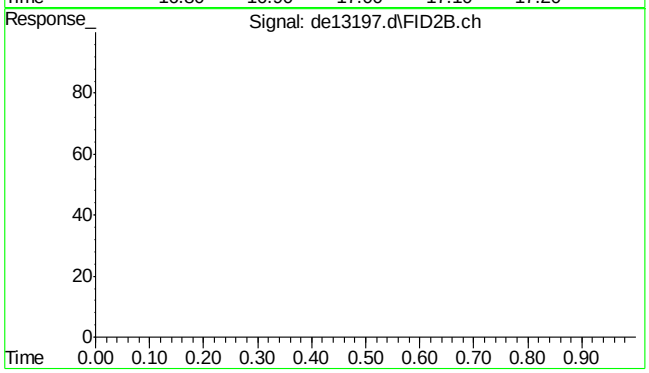
#40 c-30

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



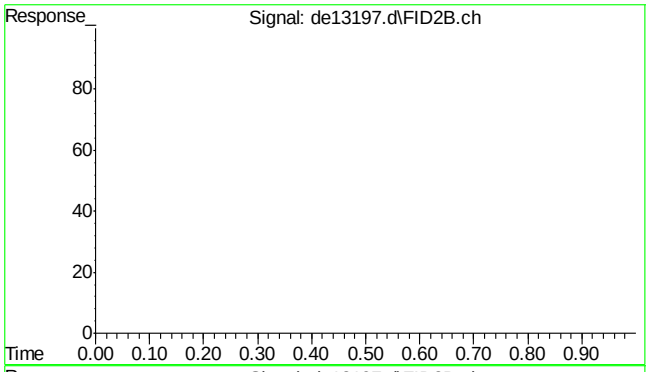
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.7

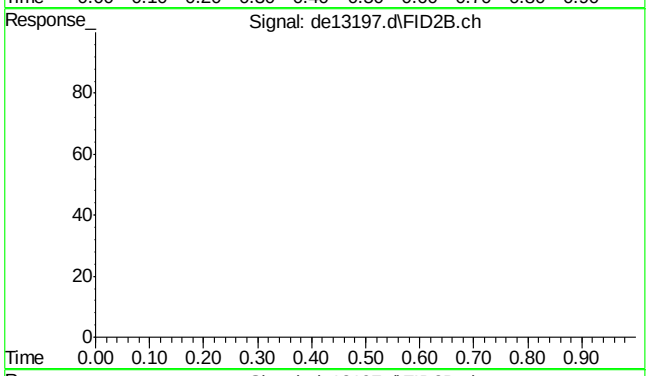
9

SGS ACCUTEST MC46340



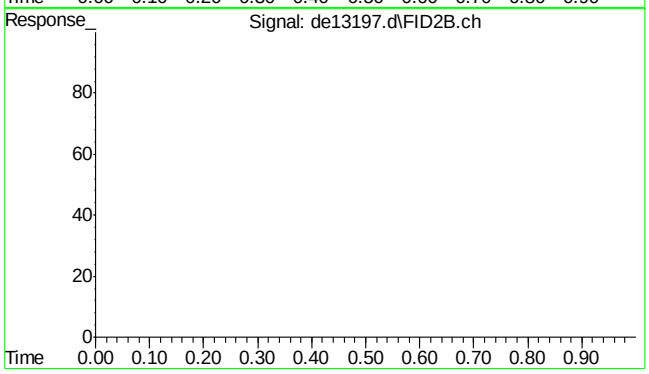
#43 bht

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

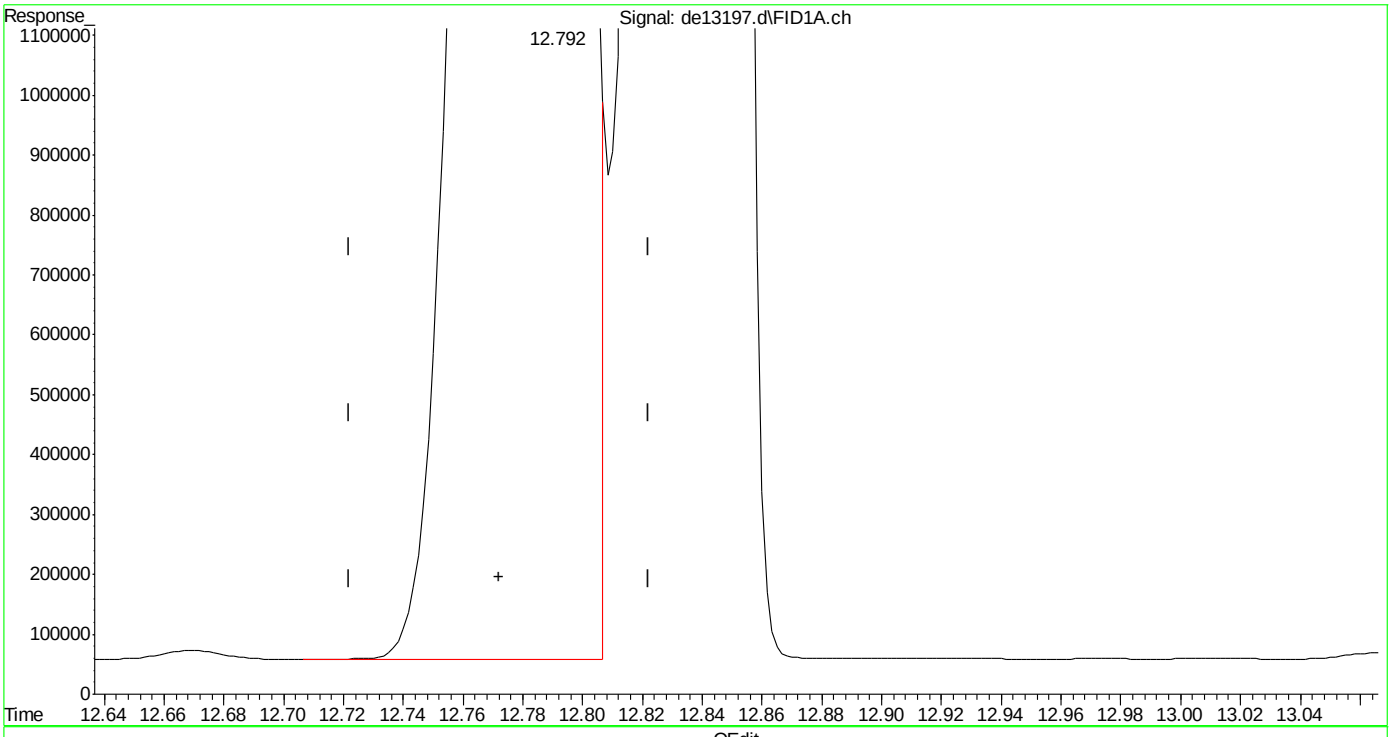
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

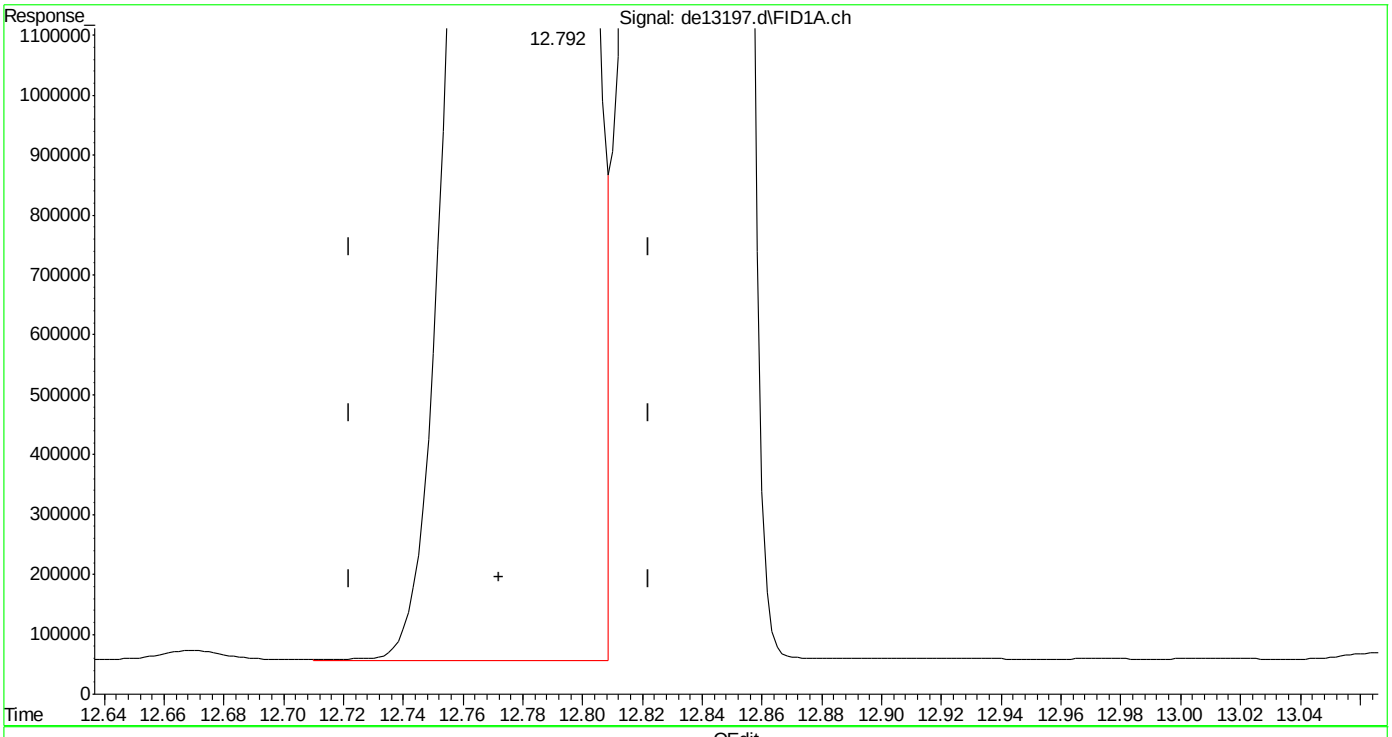
SGS ACCUTEST MC46340

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

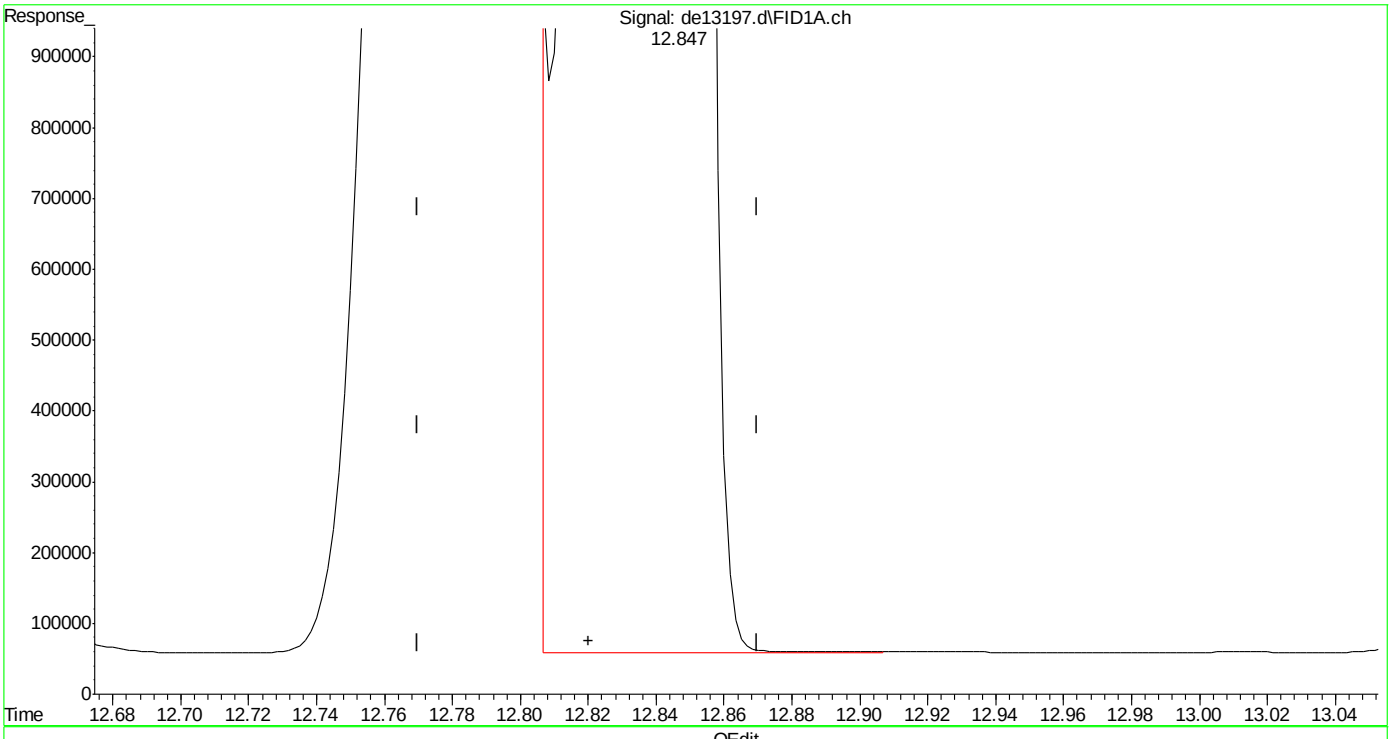
SGS ACCUTEST MC46340

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

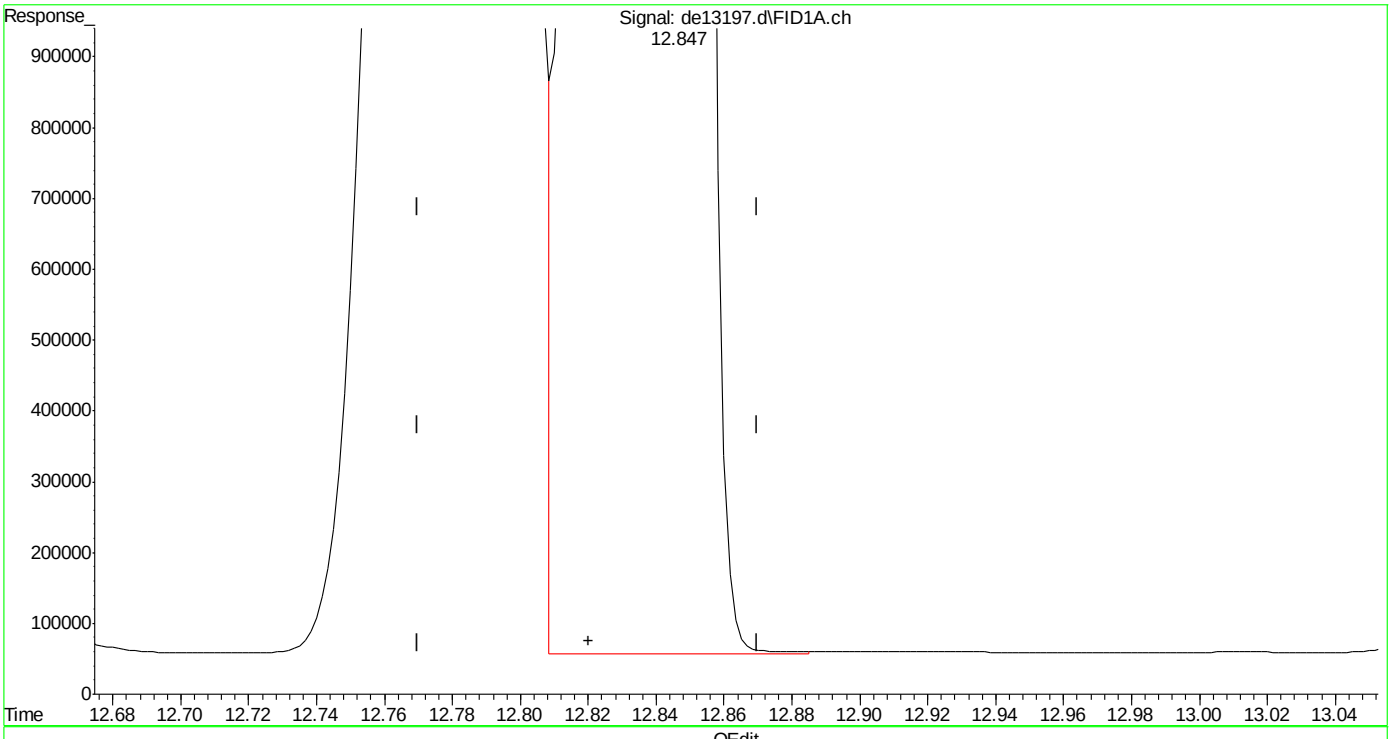
(+) = Expected Retention Time

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

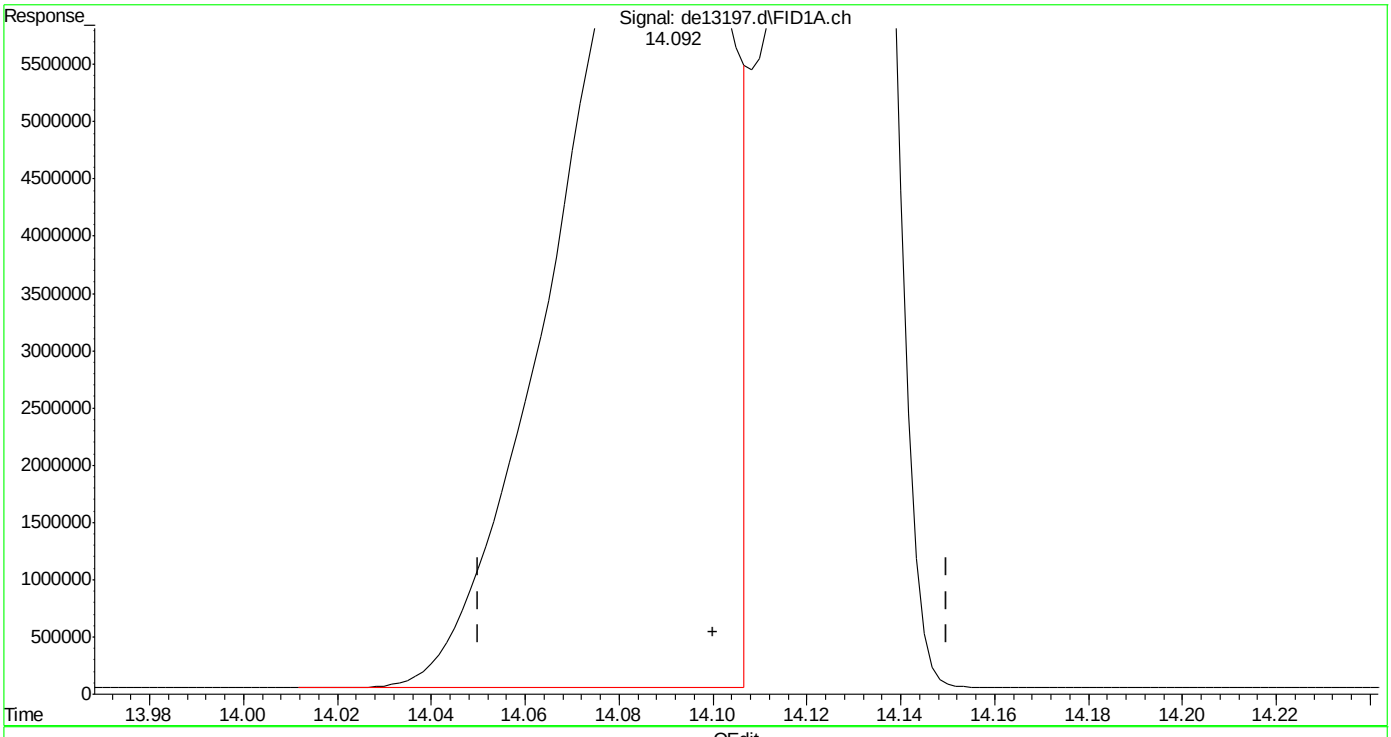
SGS ACCUTEST MC46340

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

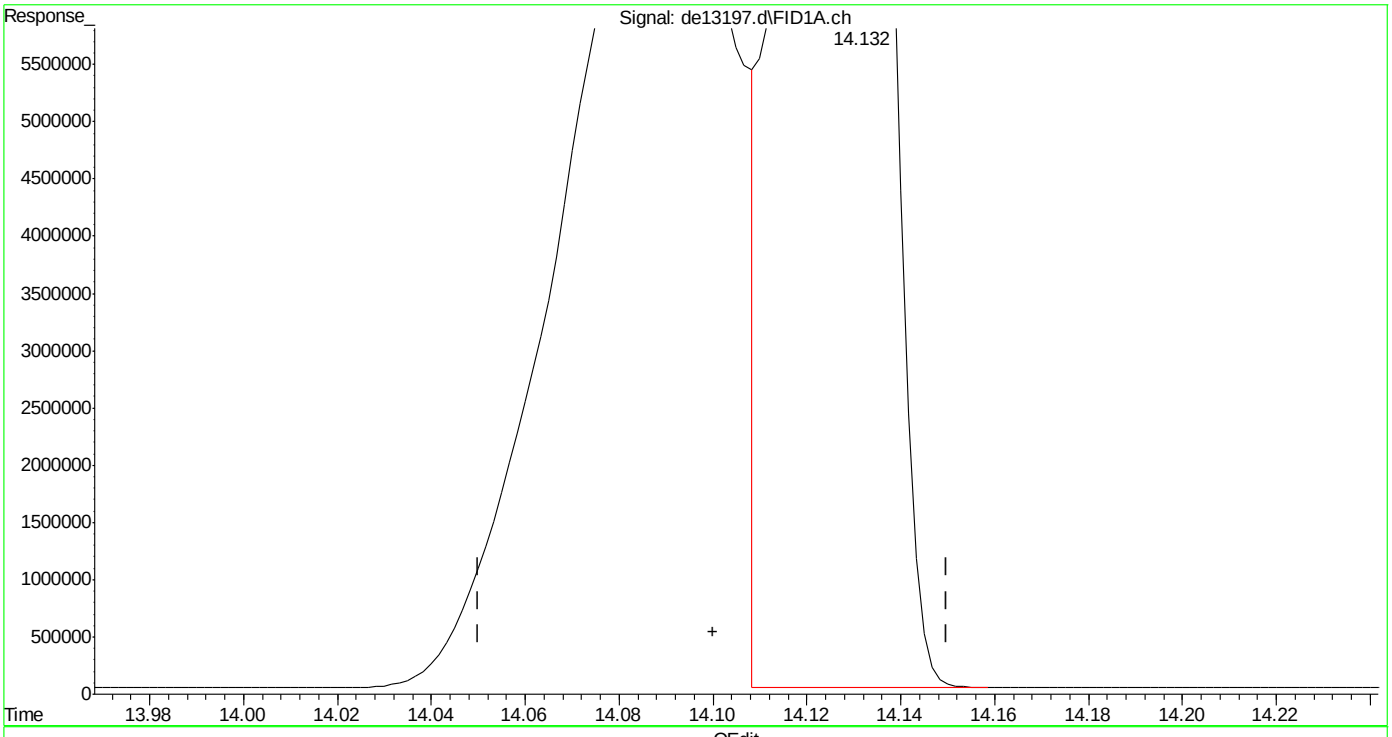
(+) = Expected Retention Time

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

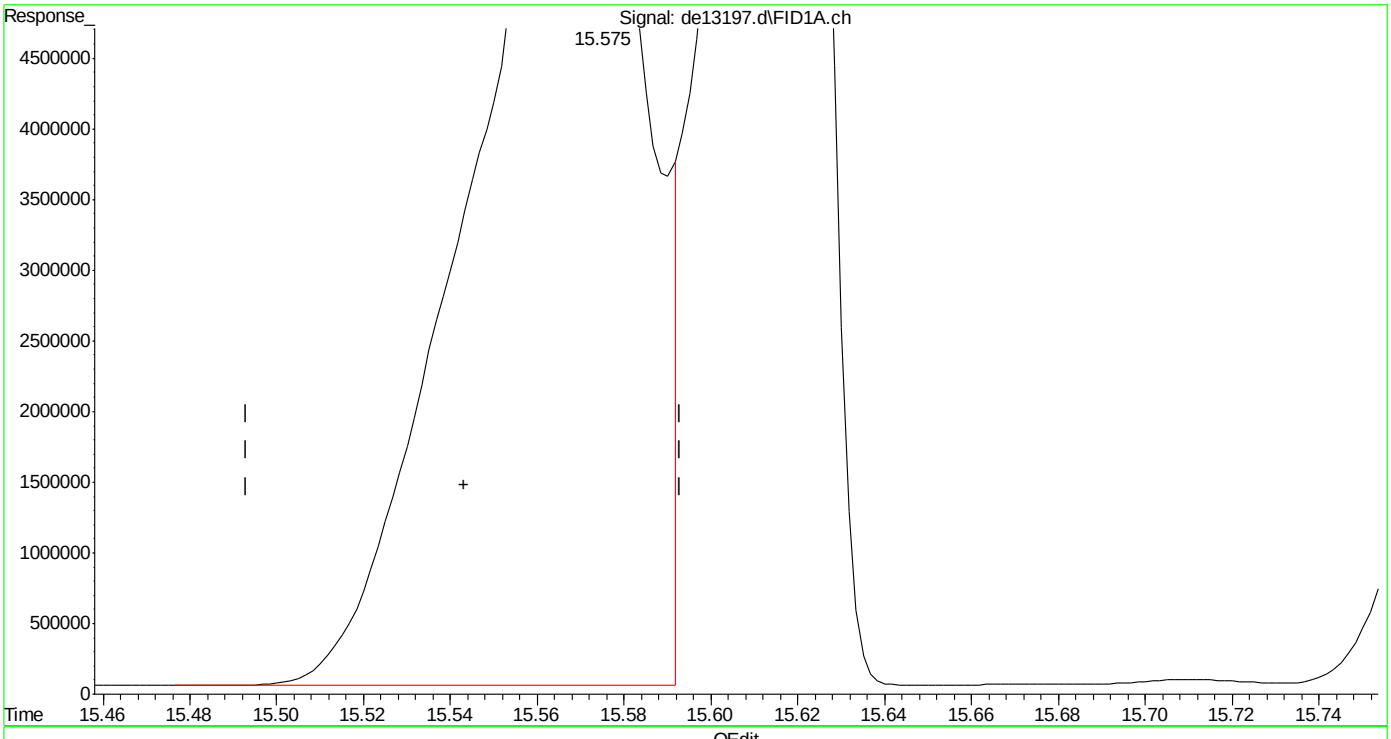
EPH160204M.M Fri Feb 05 11:04:44 2016 Page: 1

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
EPH160204M.M Fri Feb 05 11:04:51 2016

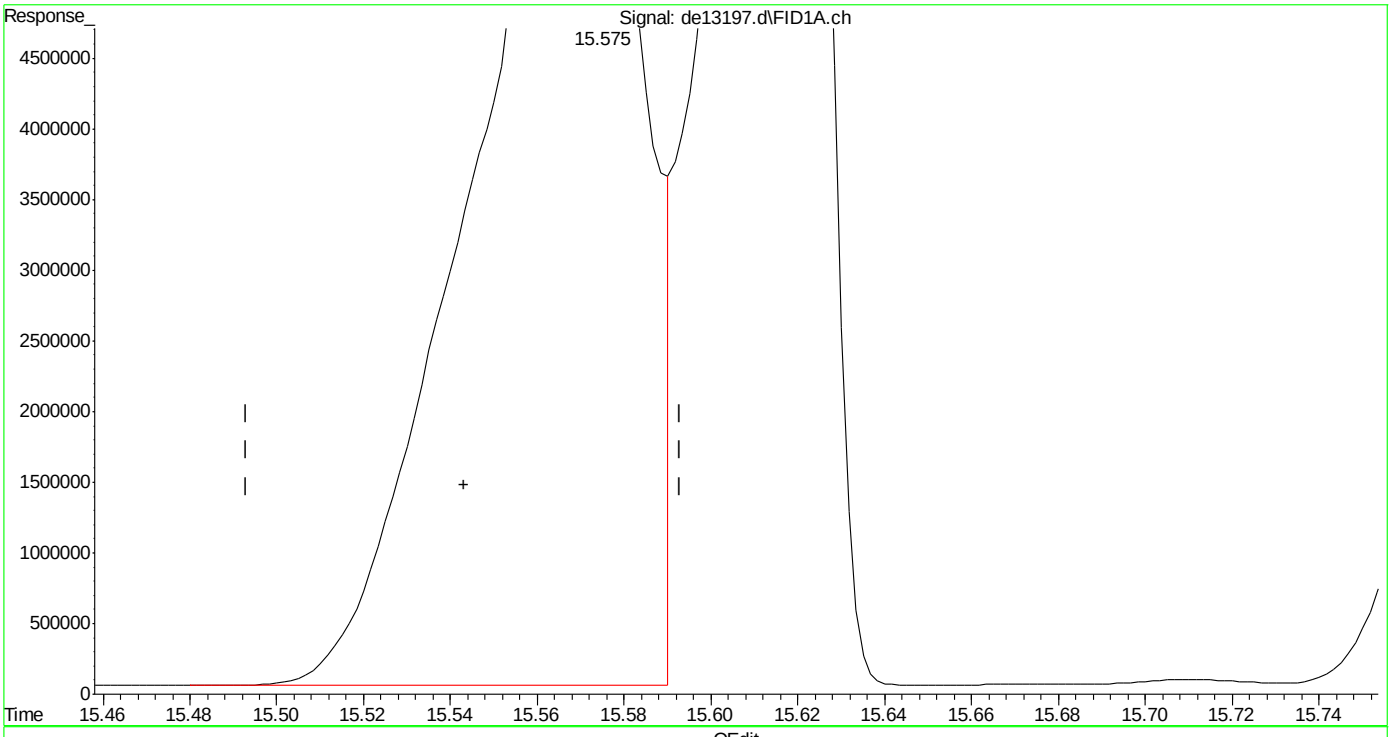
SGS ACCUTEST MC46340

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

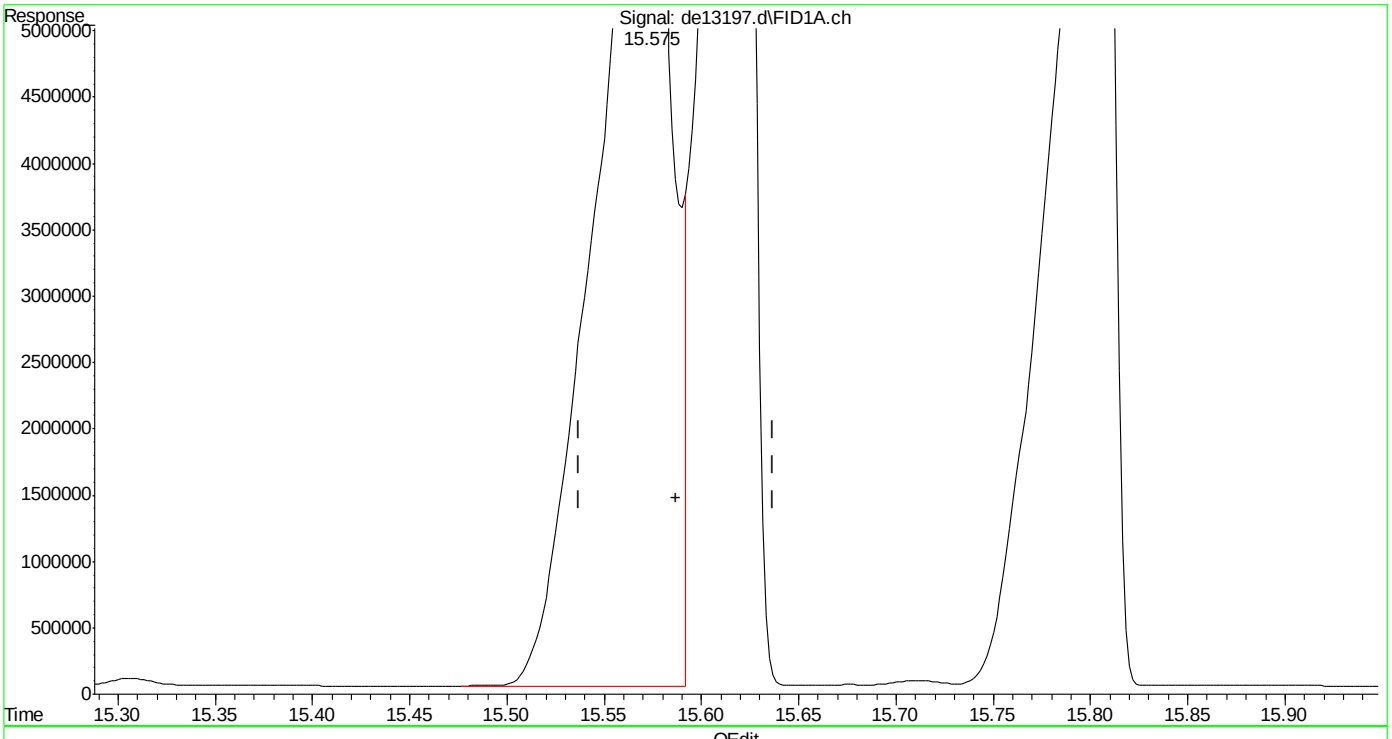
SGS ACCUTEST MC46340

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

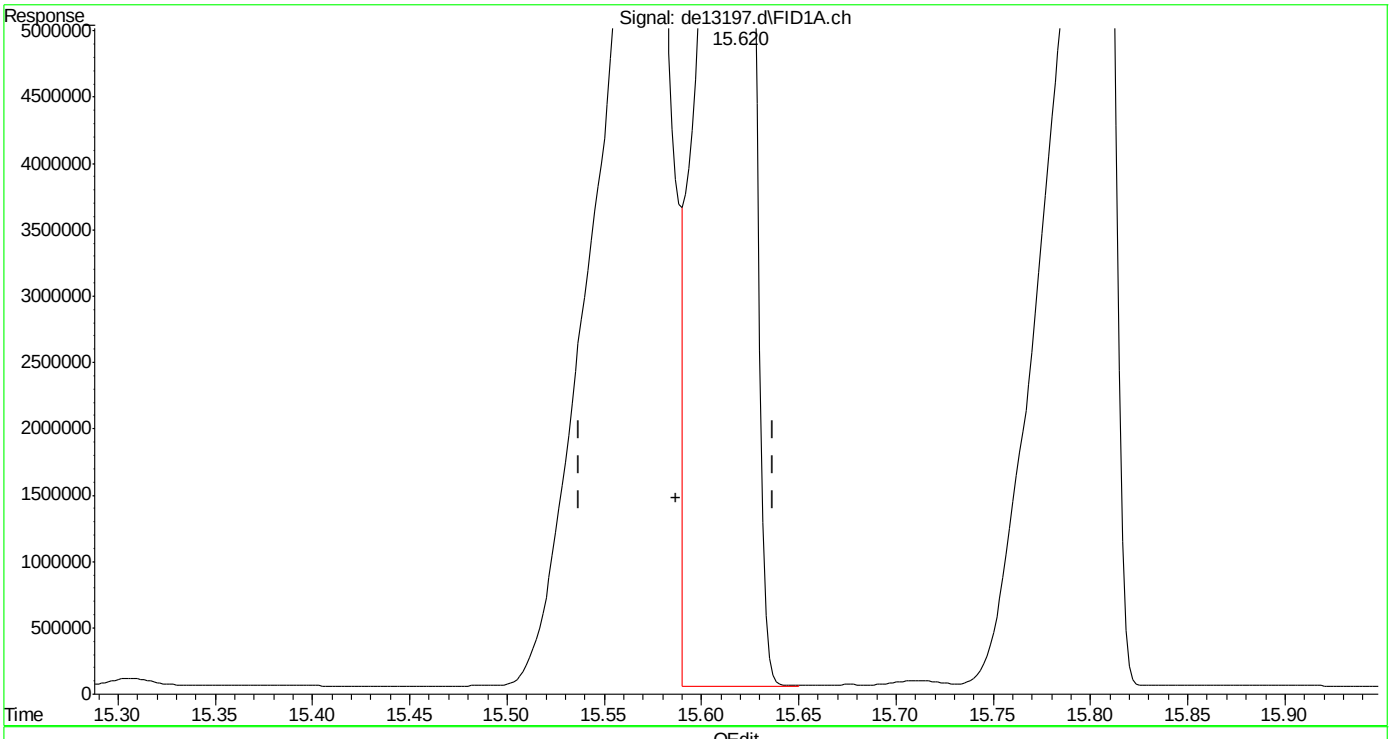
SGS ACCUTEST MC46340

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

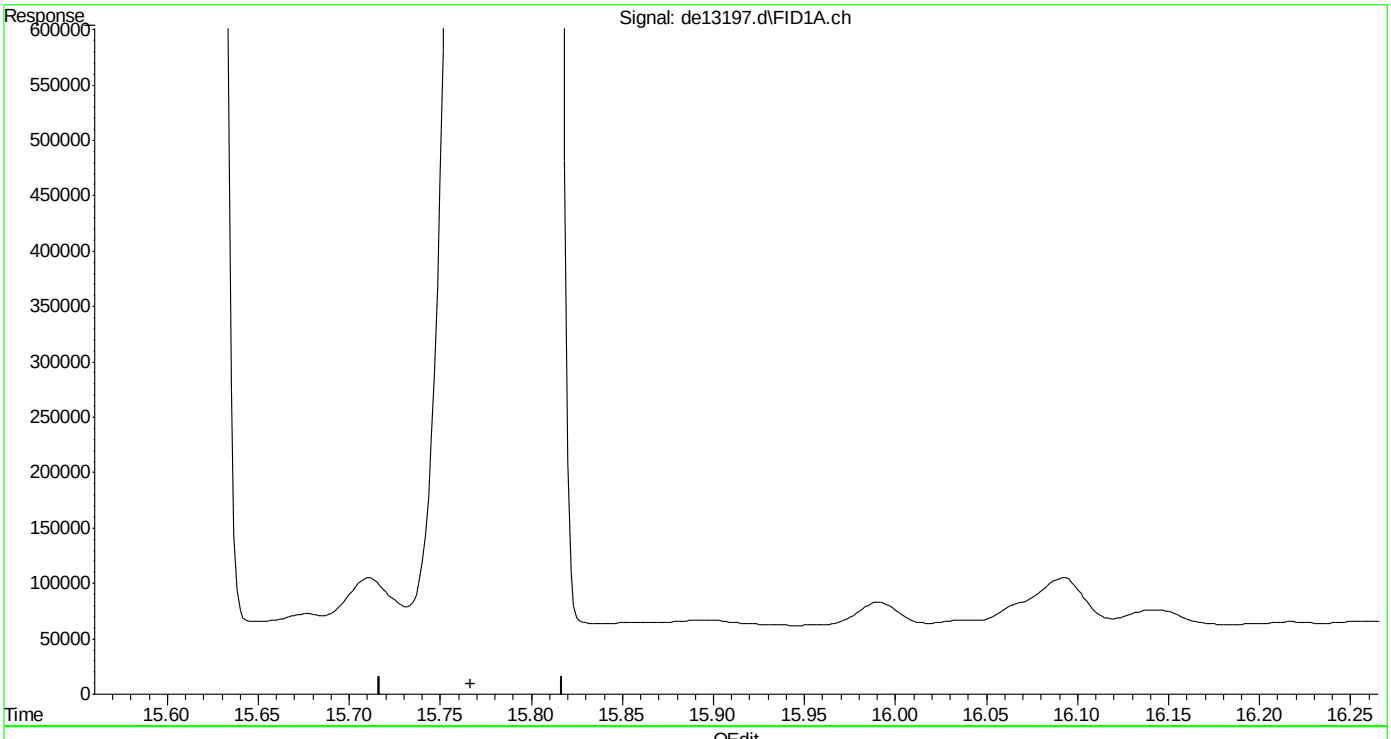
SGS ACCUTEST MC46340

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
0.000min 0.000 µg/ml d
response 0

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:42 2016

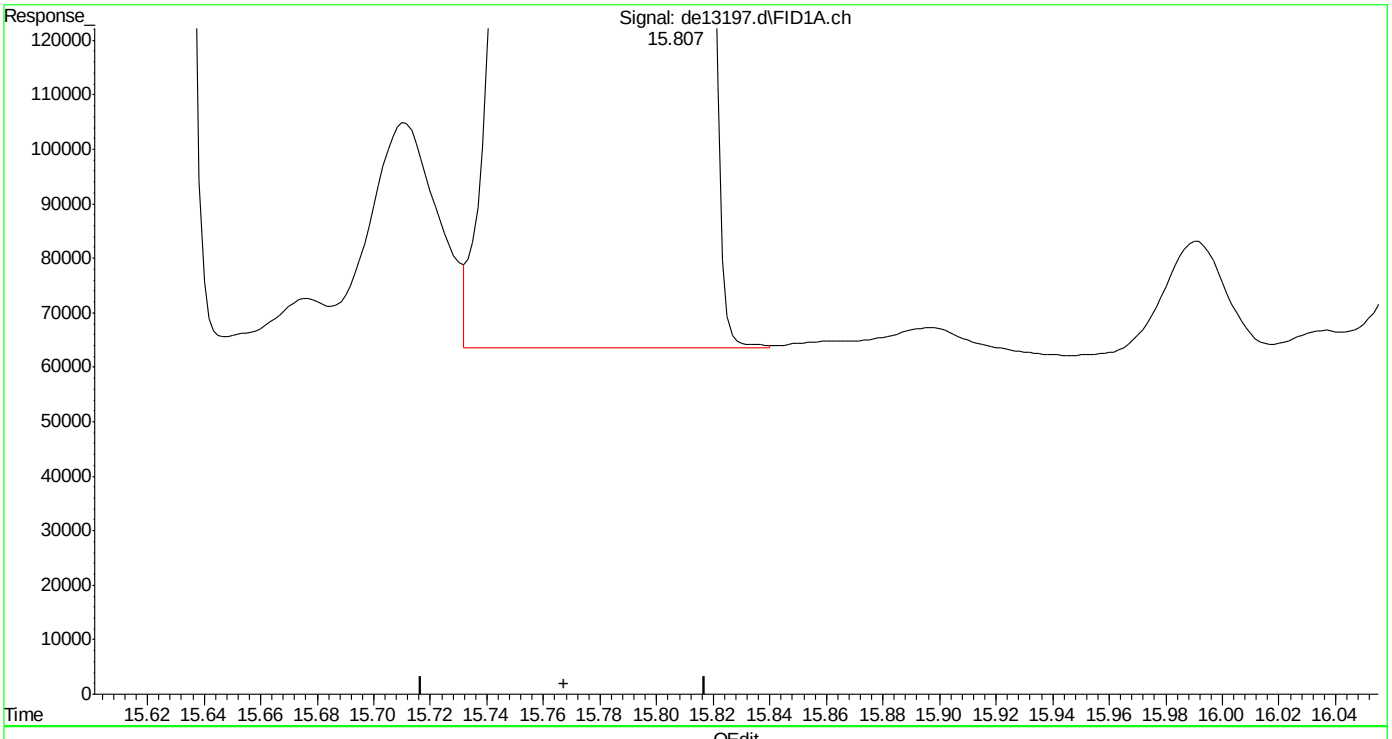
SGS ACCUTEST MC46340

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

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

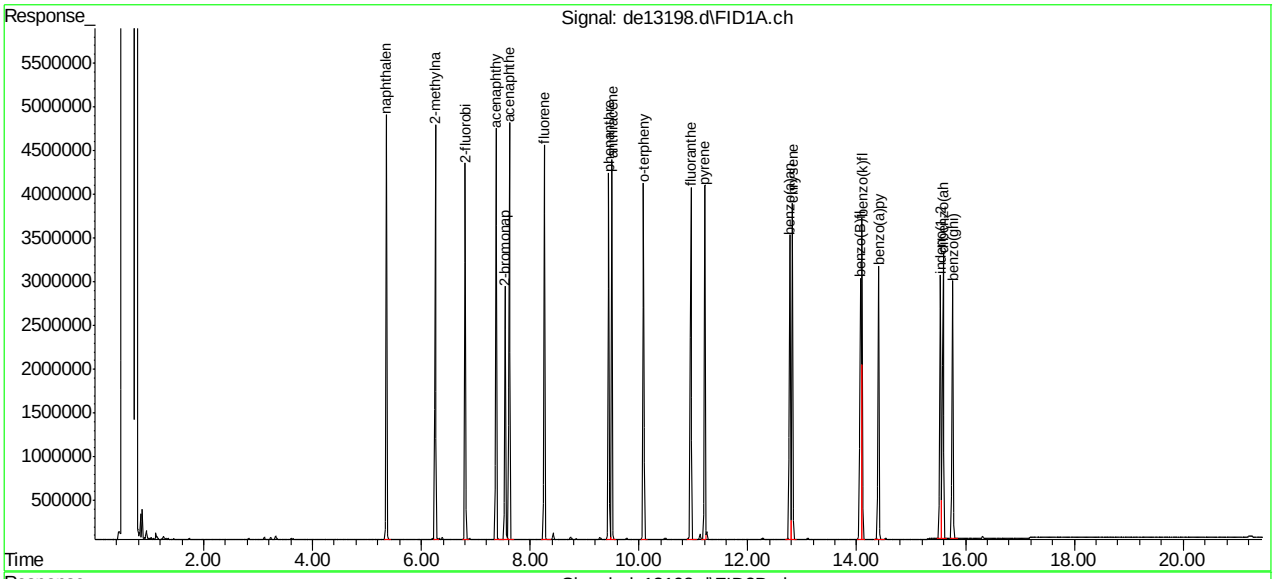
(f)=RT Delta > 1/2 Window (m)=manual int.

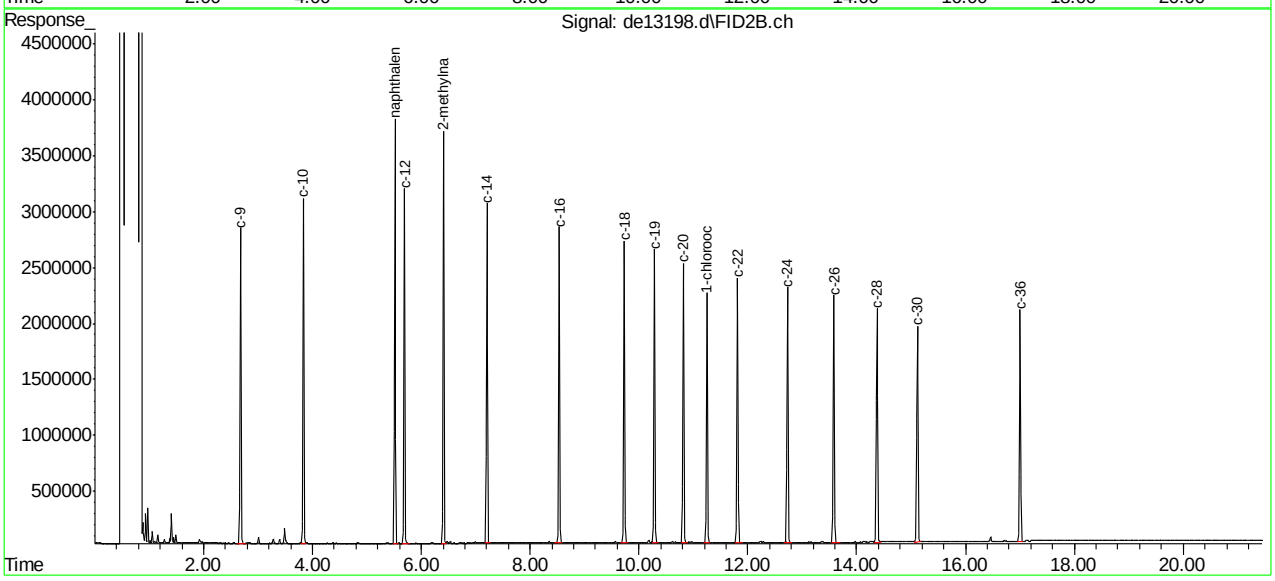
Quantitation Report (QT Reviewed)

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

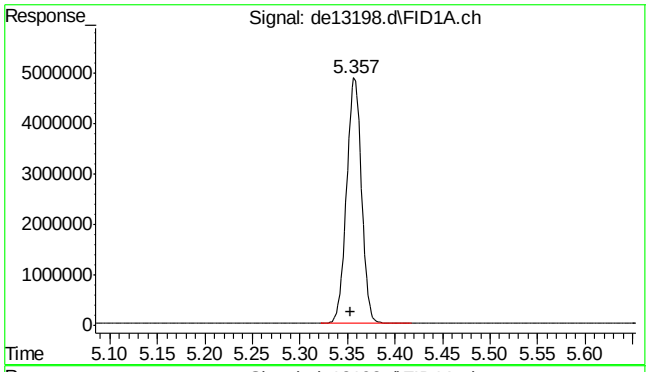
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



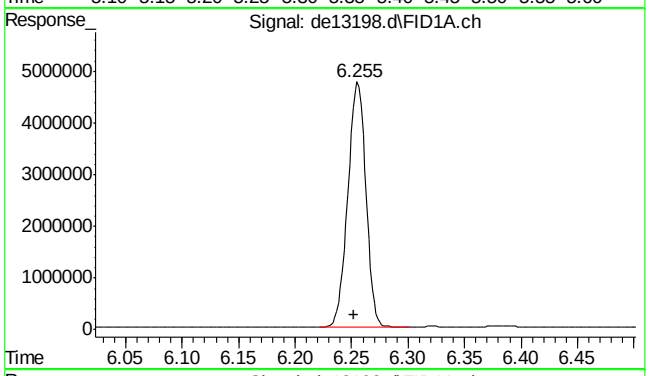


EPH160204W.M Fri Feb 05 14:30:14 2016 Page: 3



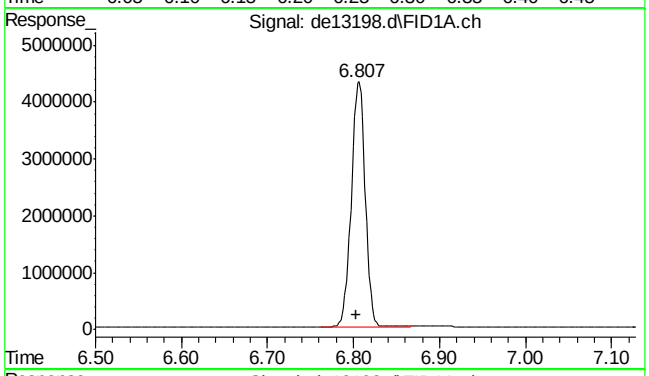
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



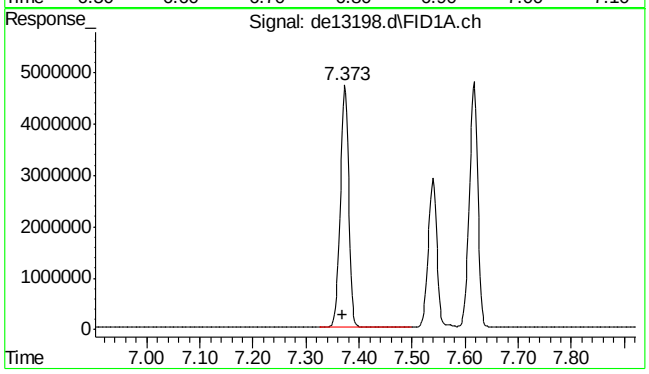
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

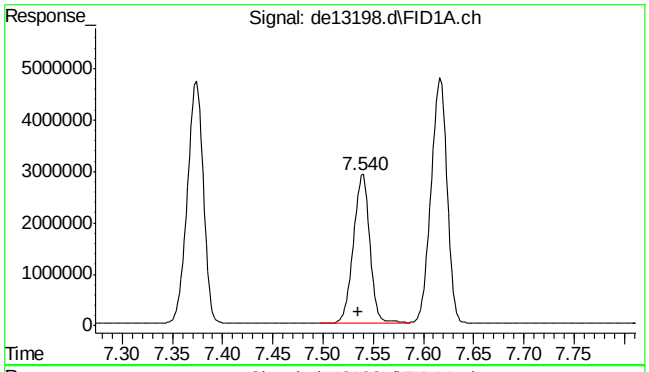
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



#5 acenaphthylene

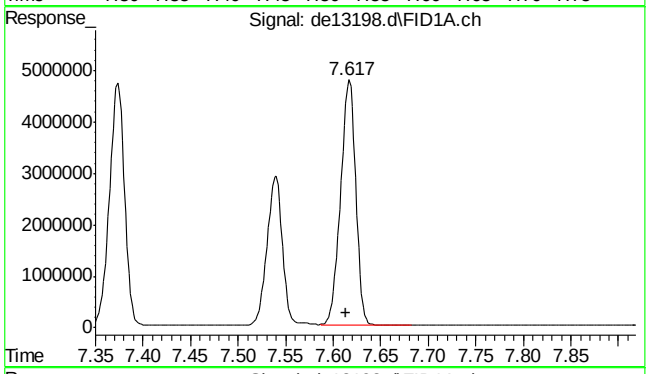
R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

SGS ACCUTEST MC46340



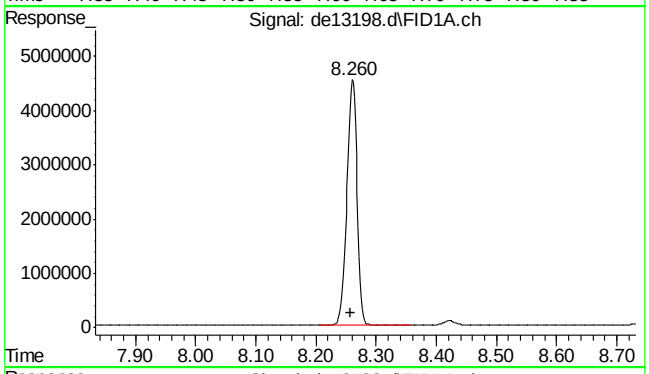
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



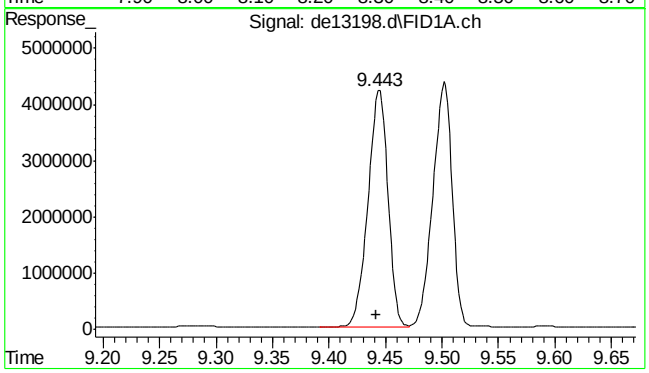
#7 acenaphthene

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

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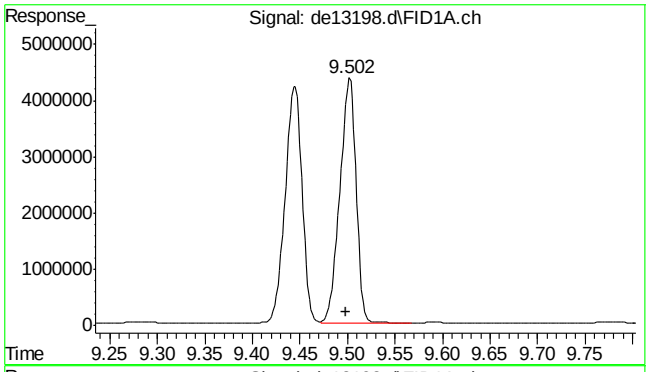
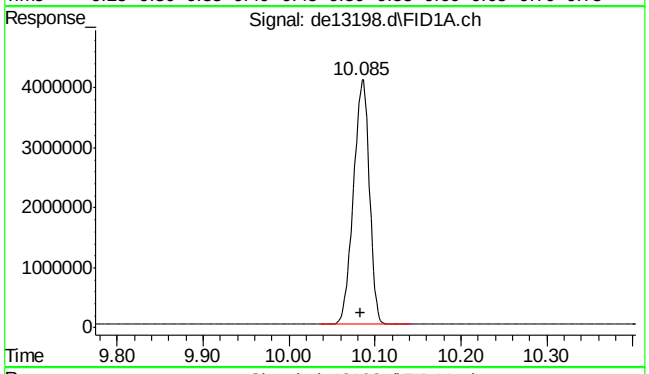


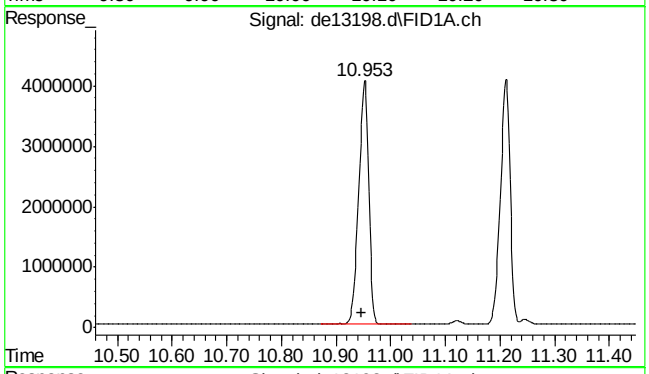
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



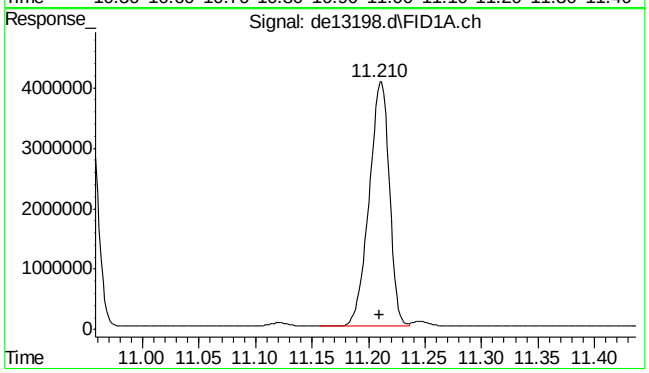
#11 o-terphenyl

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



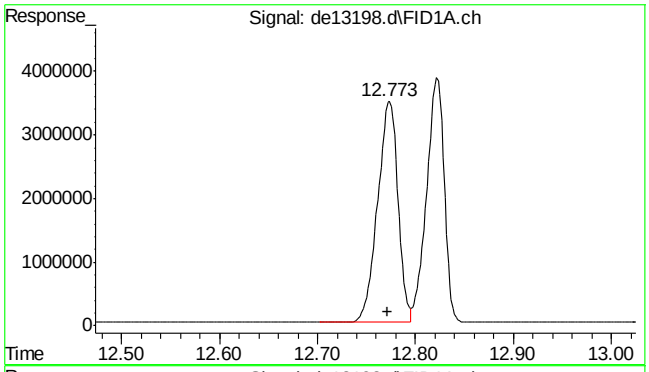
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.4.8

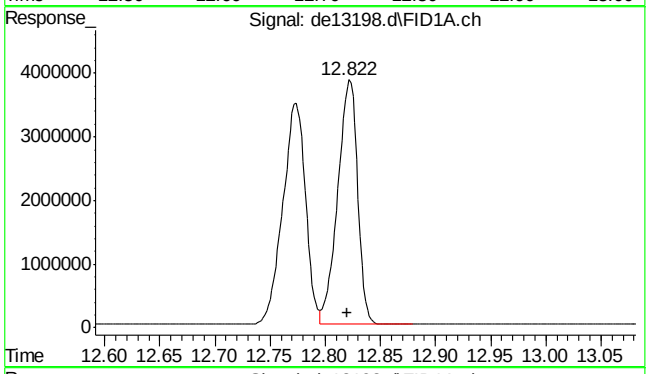
9

SGS ACCUTEST MC46340



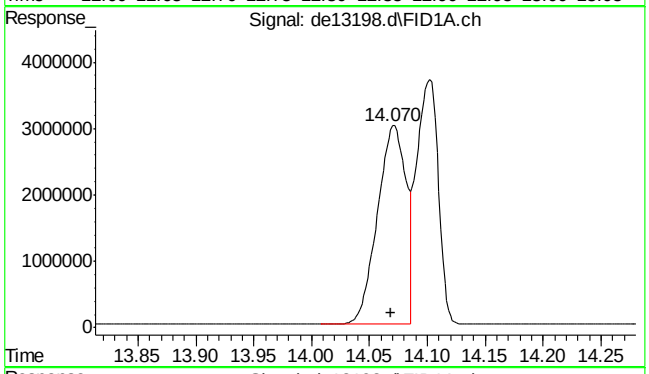
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



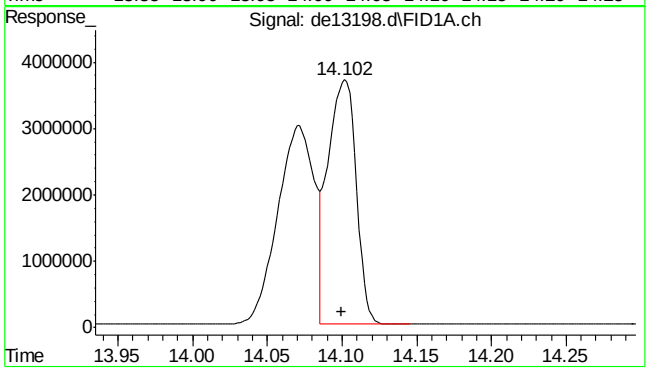
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



#16 benzo(B)fluoranthene

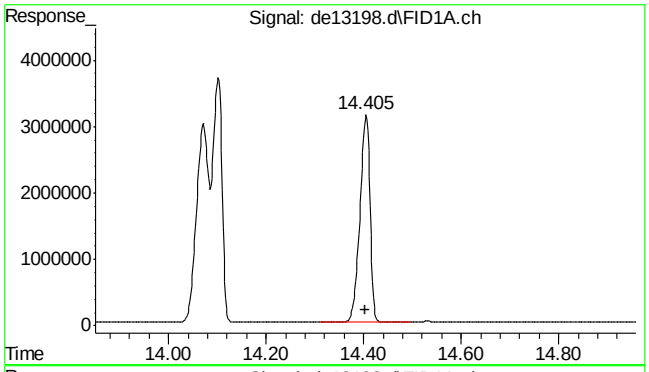
R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



#17 benzo(k)fluoranthene

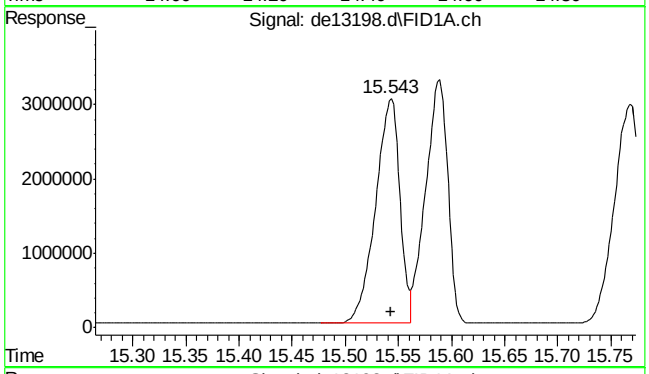
R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m

SGS ACCUTEST MC46340



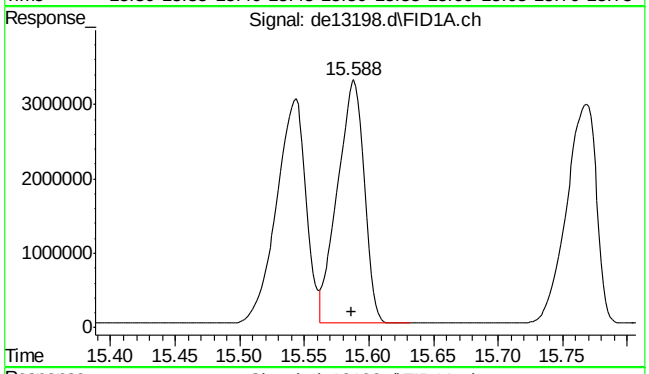
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



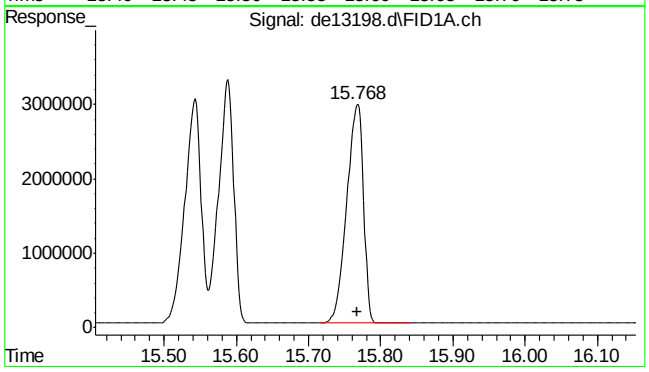
#19 indeno(1,2,3-cd)pyrene

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

9.4.8

9

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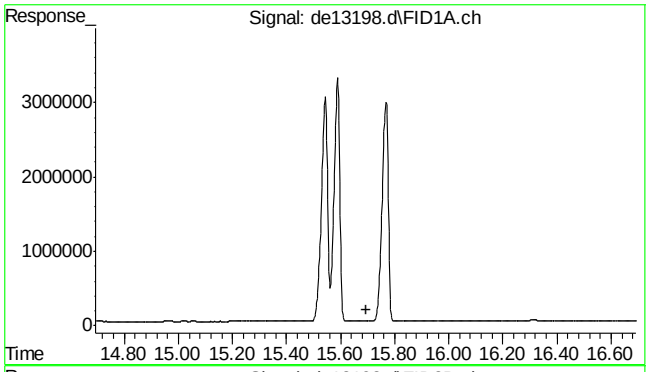
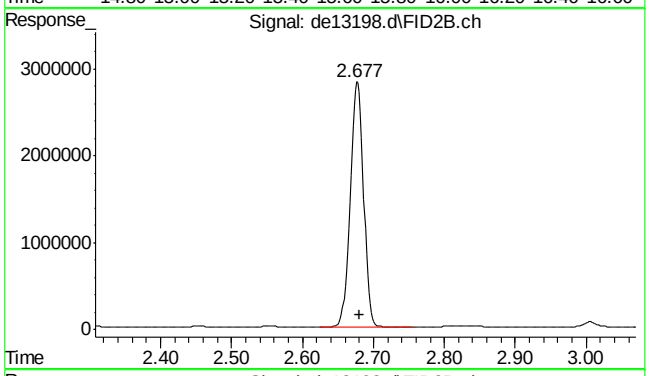


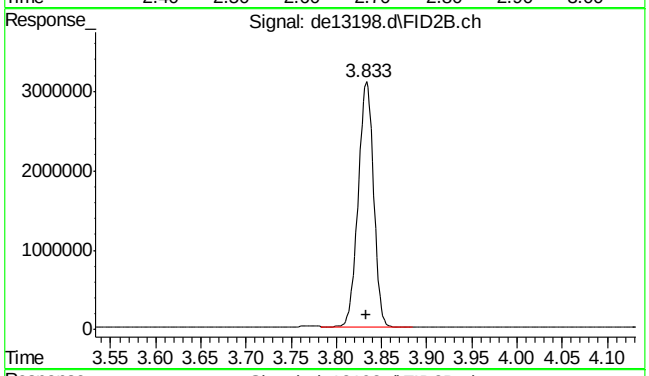
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



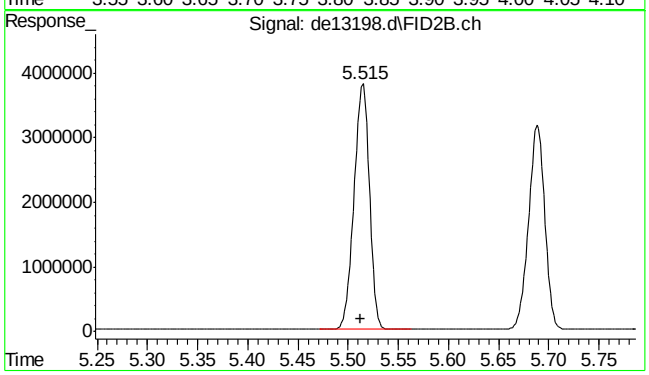
#25 c-9

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



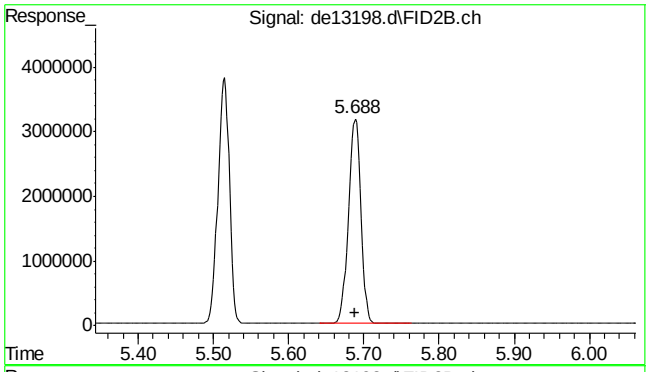
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml

9.4.8

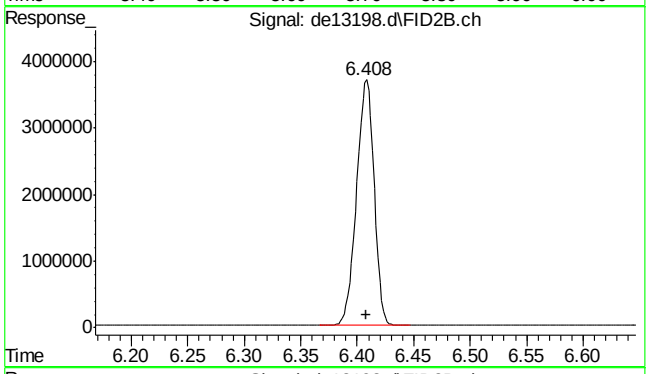
9

SGS ACCUTEST MC46340



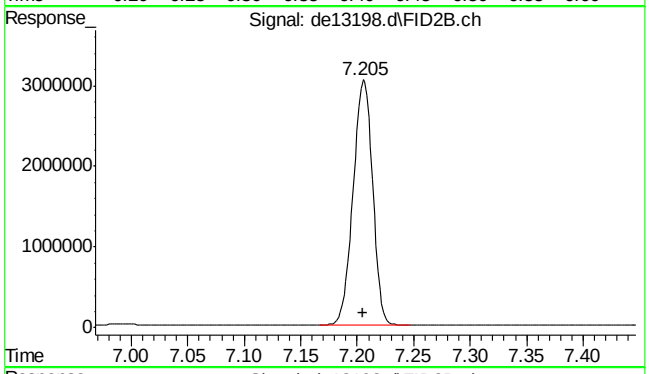
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



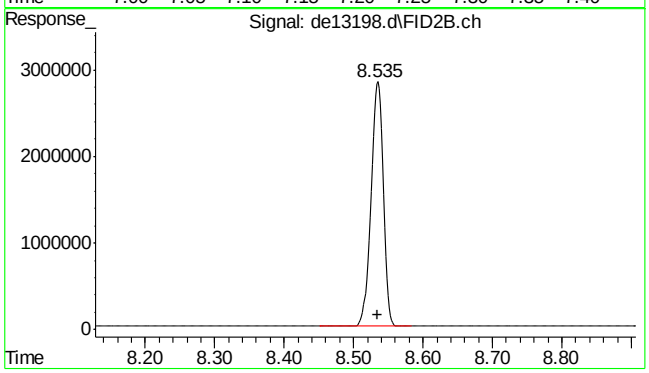
#29 2-methylnaphthalene #2

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



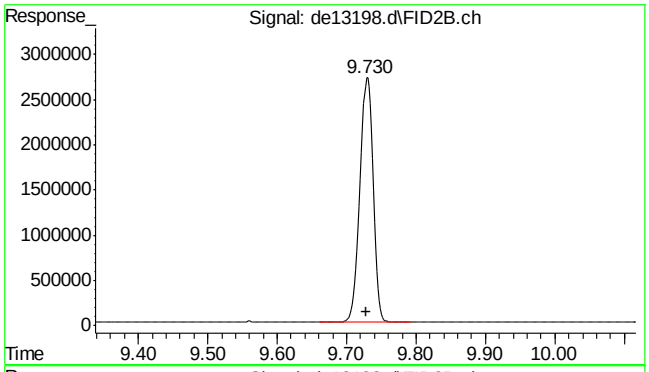
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml

9.4.8

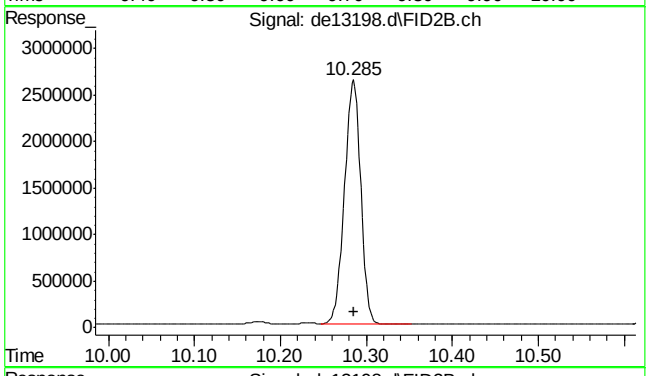
9

SGS ACCUTEST MC46340



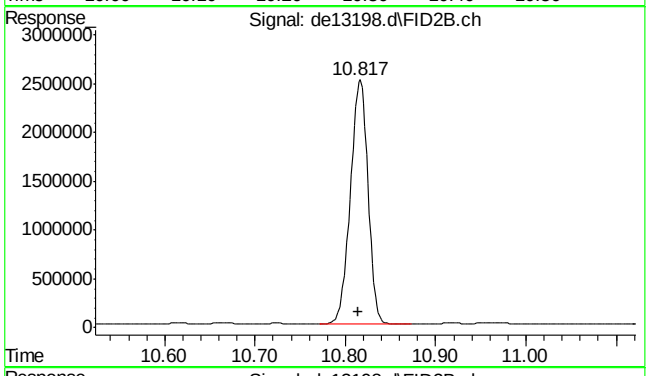
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



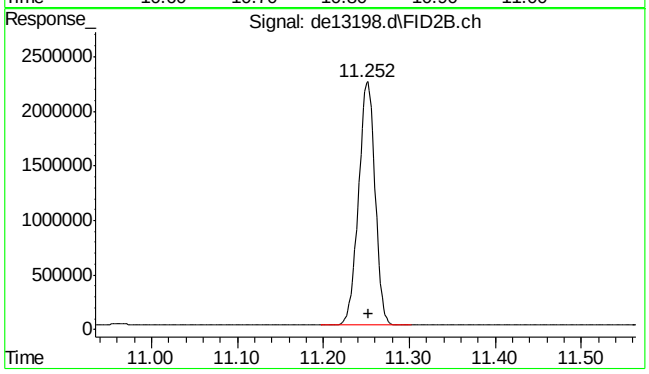
#33 c-19

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



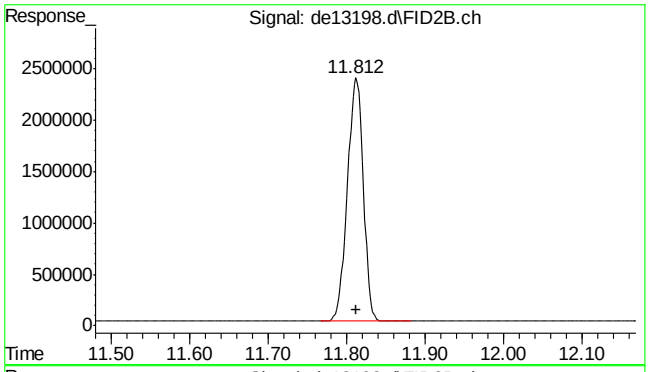
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

9.4.8

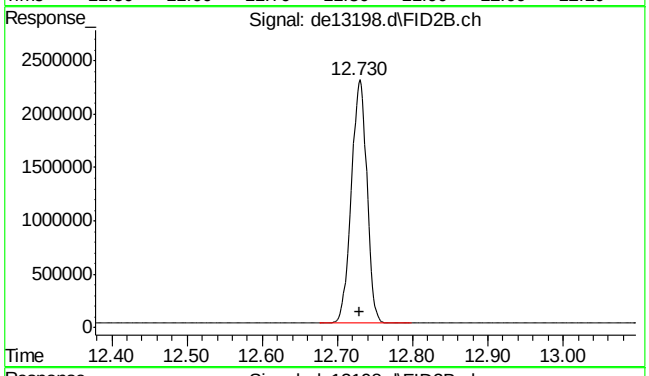
9

SGS ACCUTEST MC46340



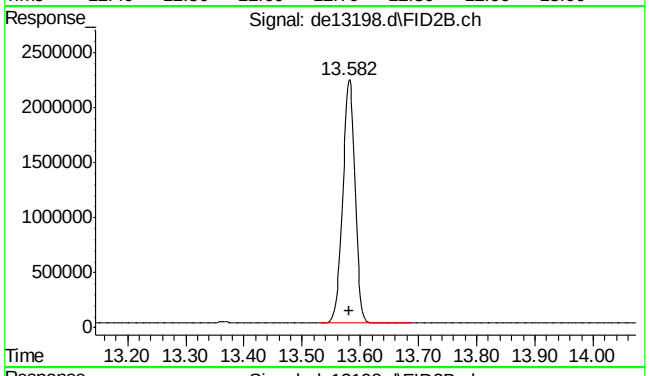
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



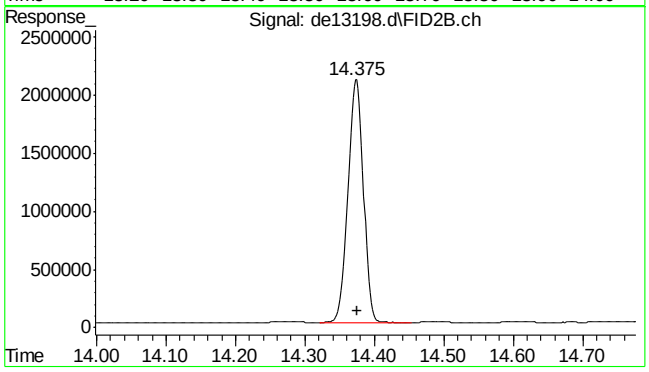
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



#38 c-26

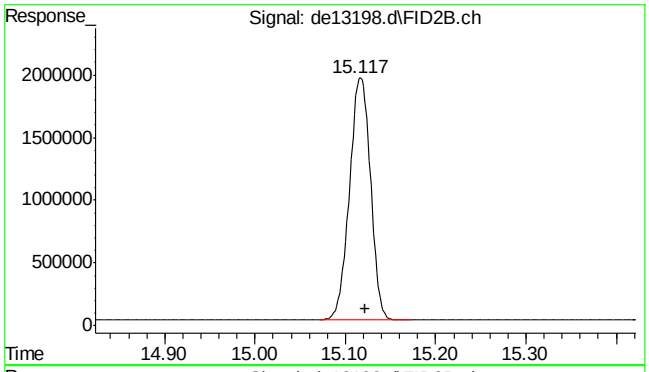
R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



#39 c-28

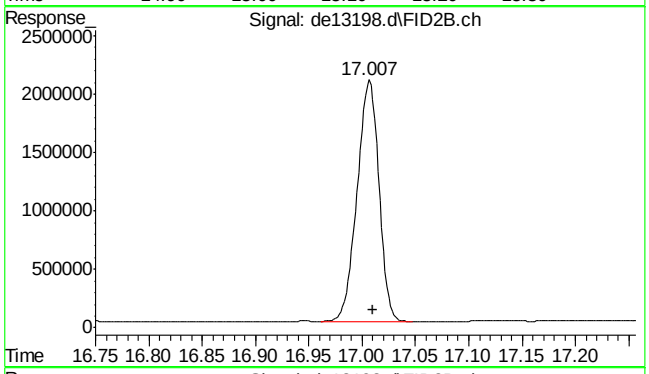
R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml

SGS ACCUTEST MC46340



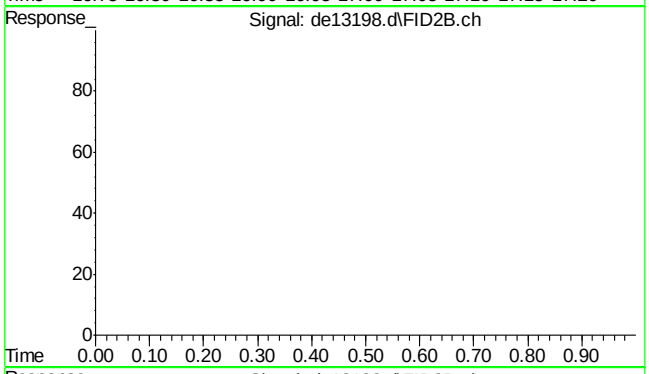
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



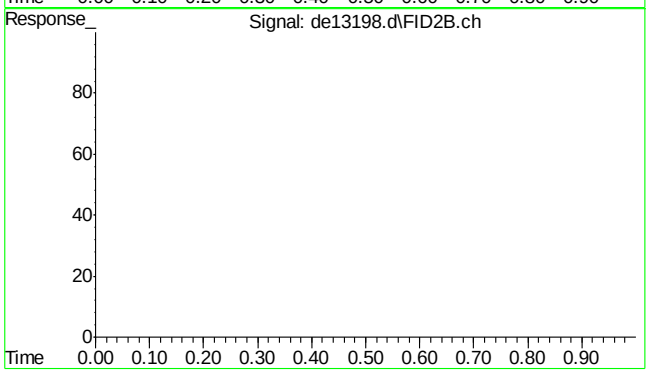
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2933493
Conc: 43.91 µg/ml m



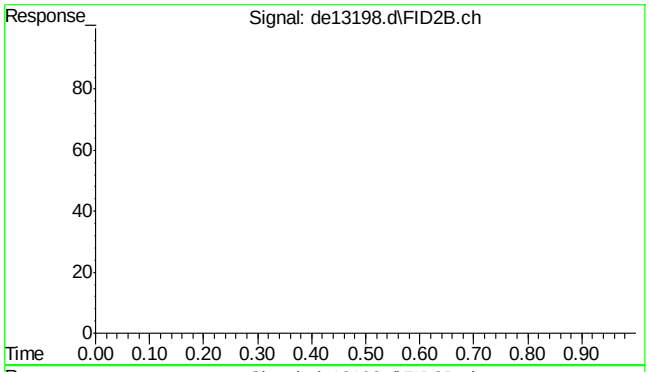
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



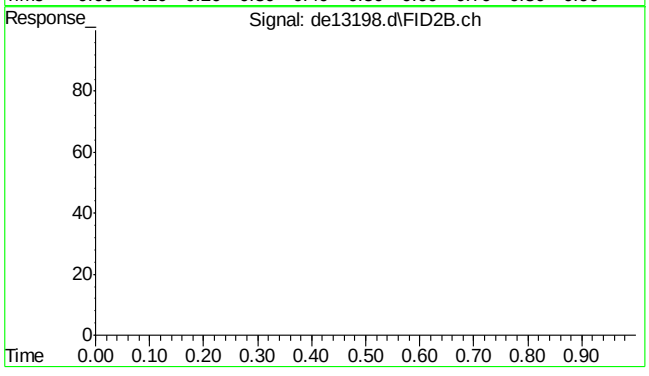
#43 bht

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

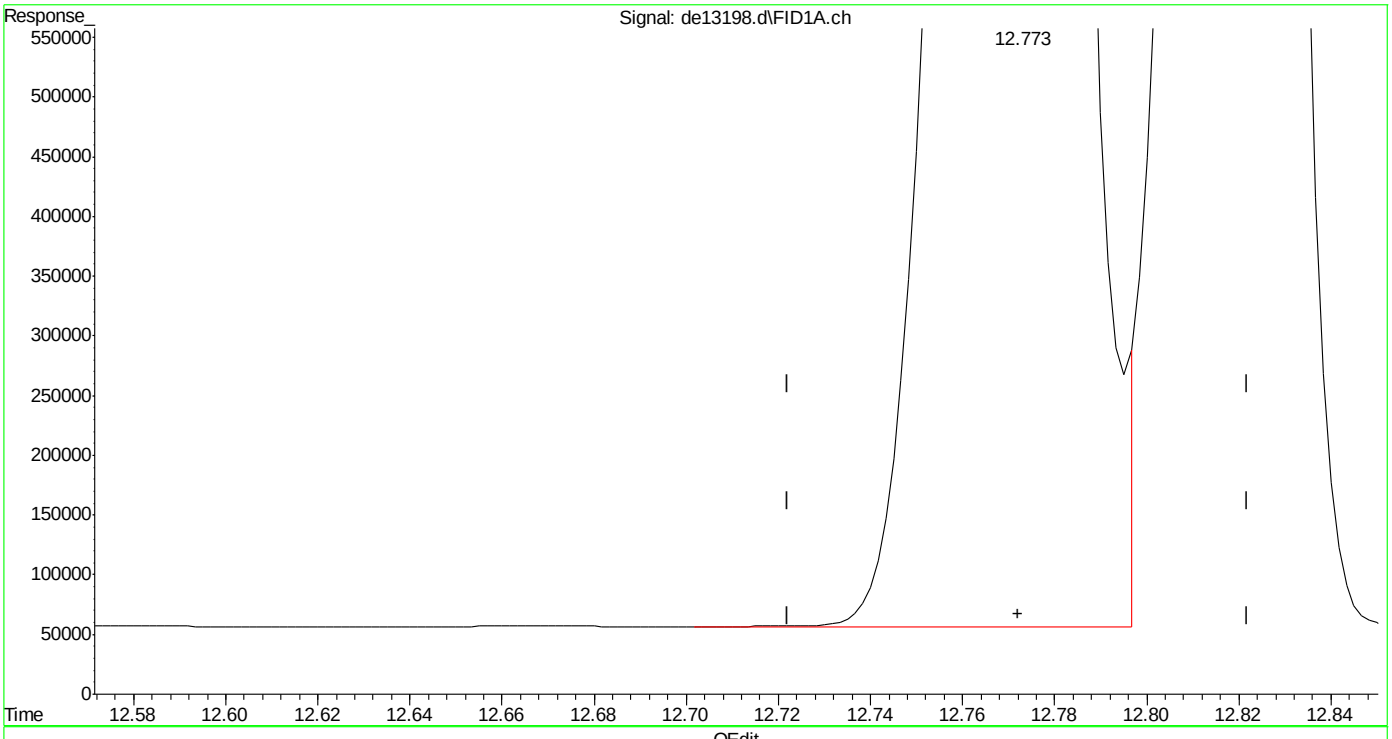
```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

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

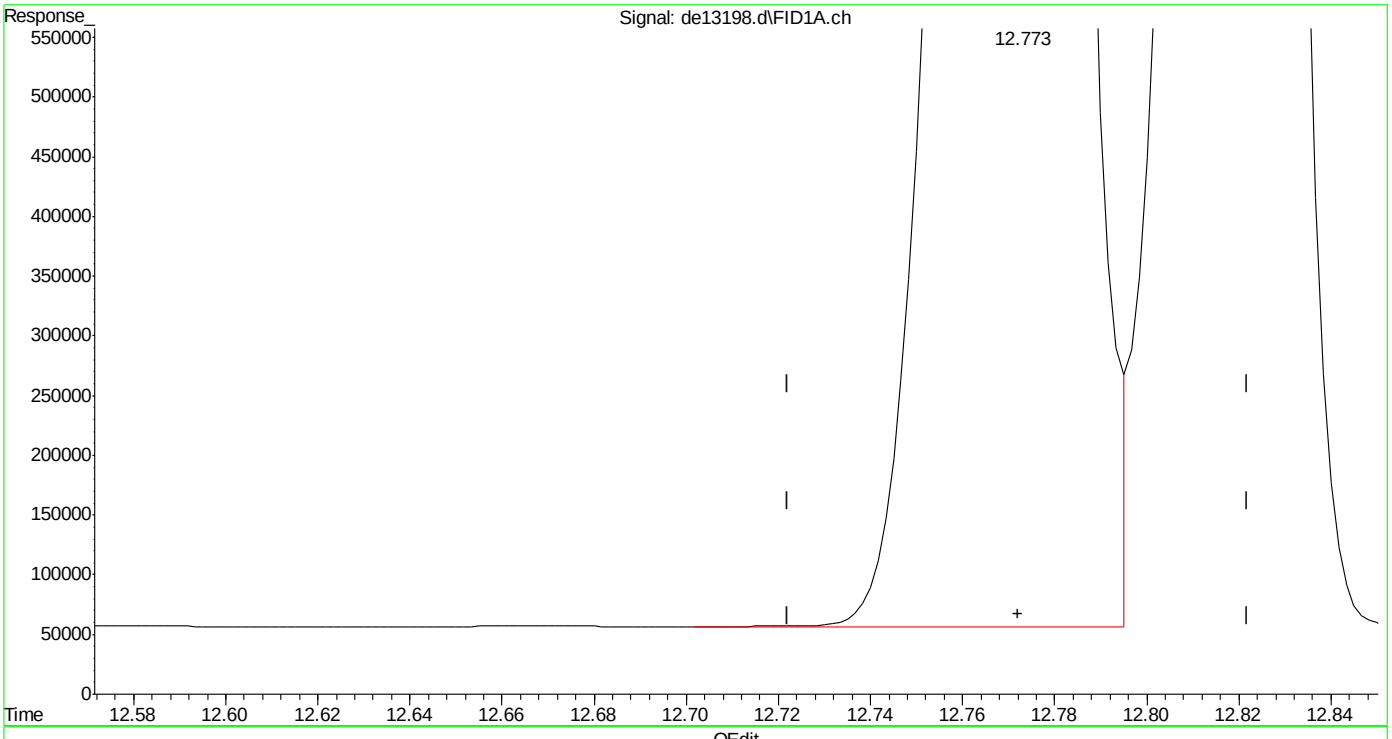
(+) = Expected Retention Time

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

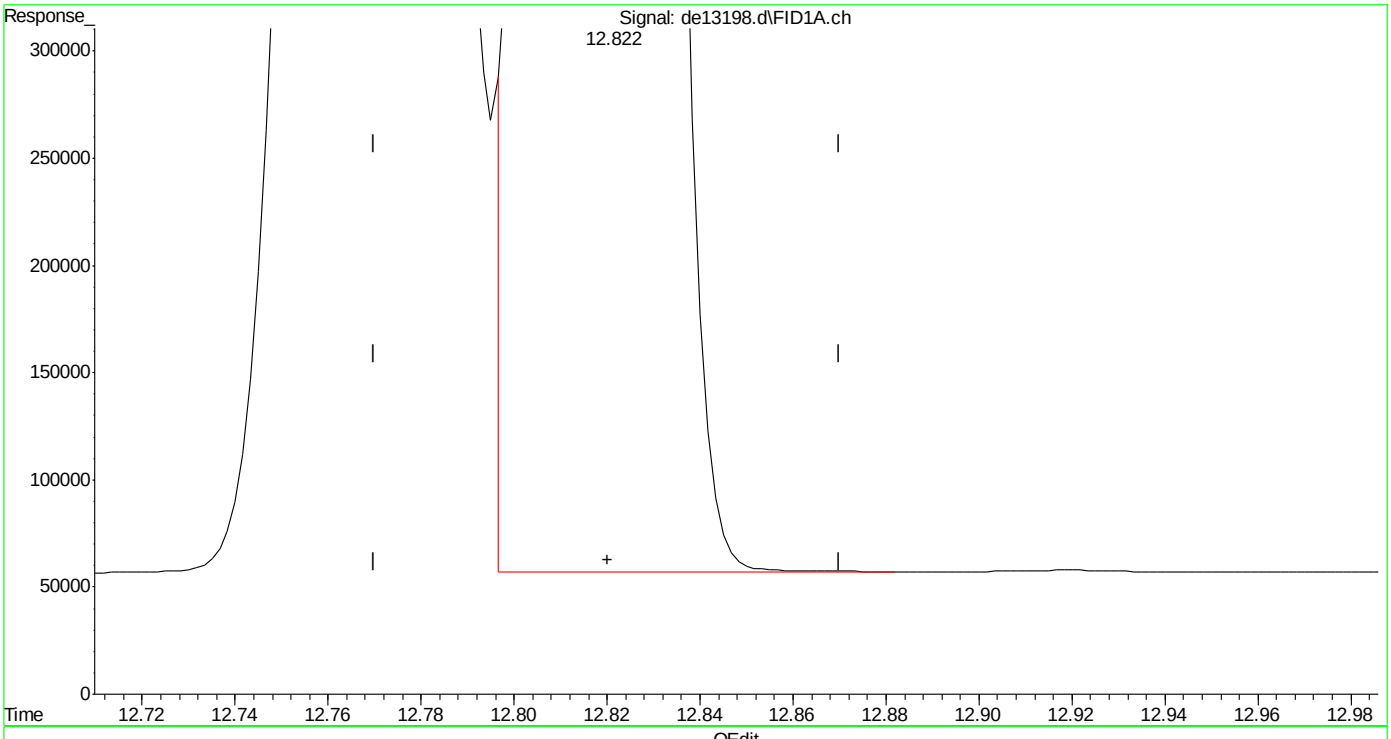
(+) = Expected Retention Time

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

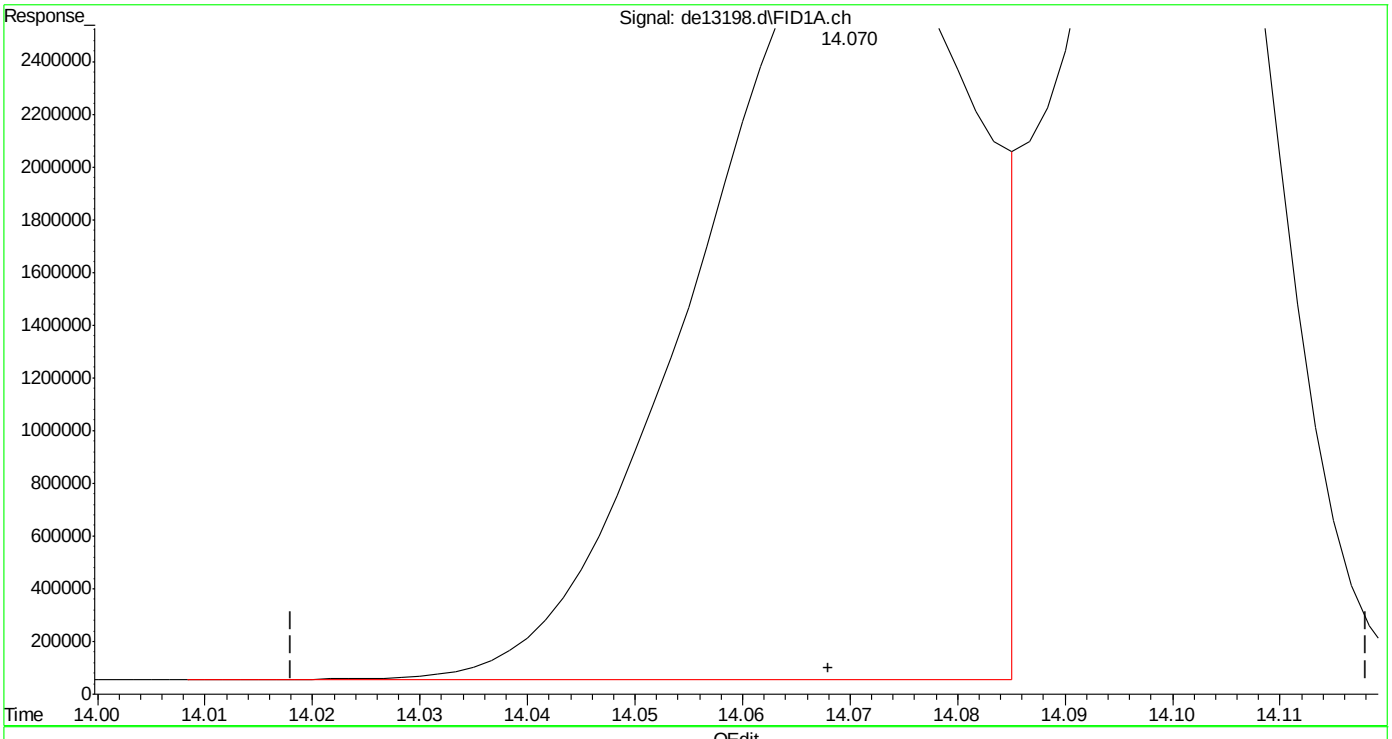
SGS ACCUTEST MC46340

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

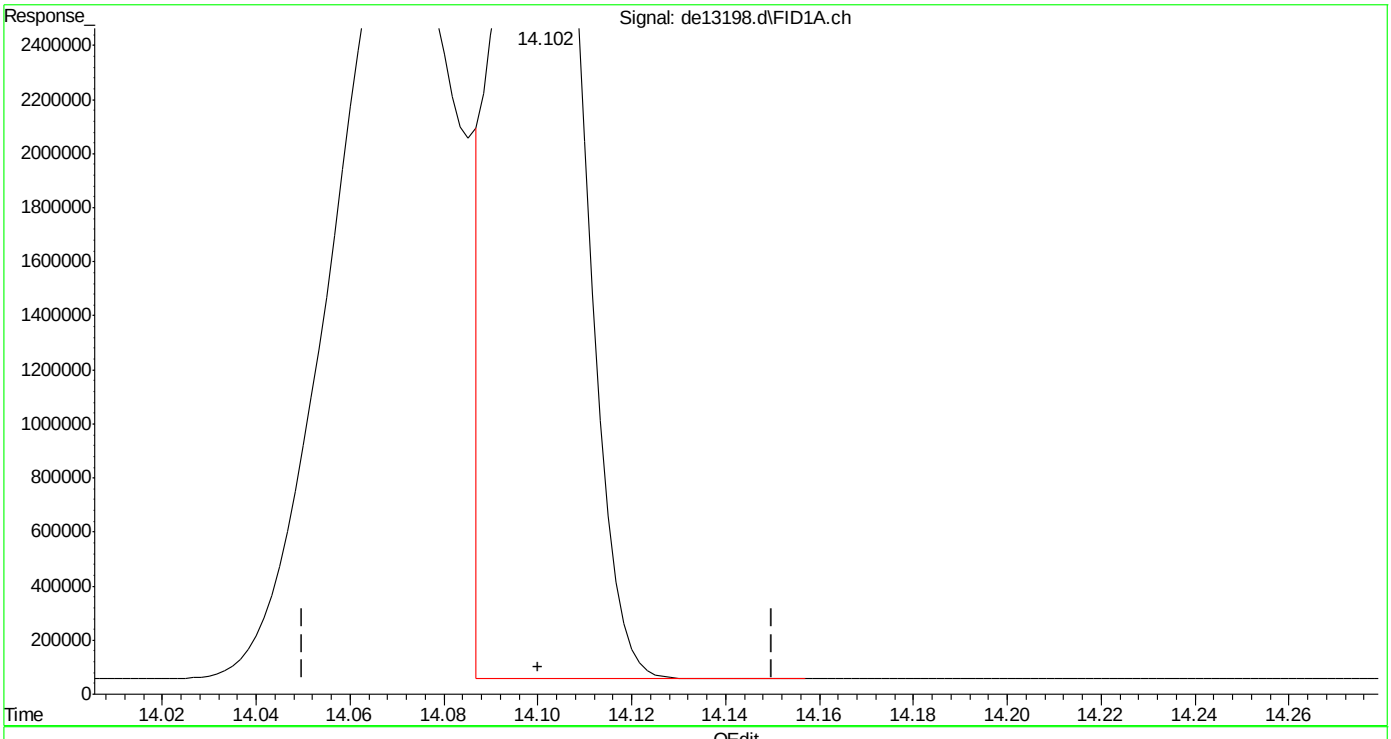
SGS ACCUTEST MC46340

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

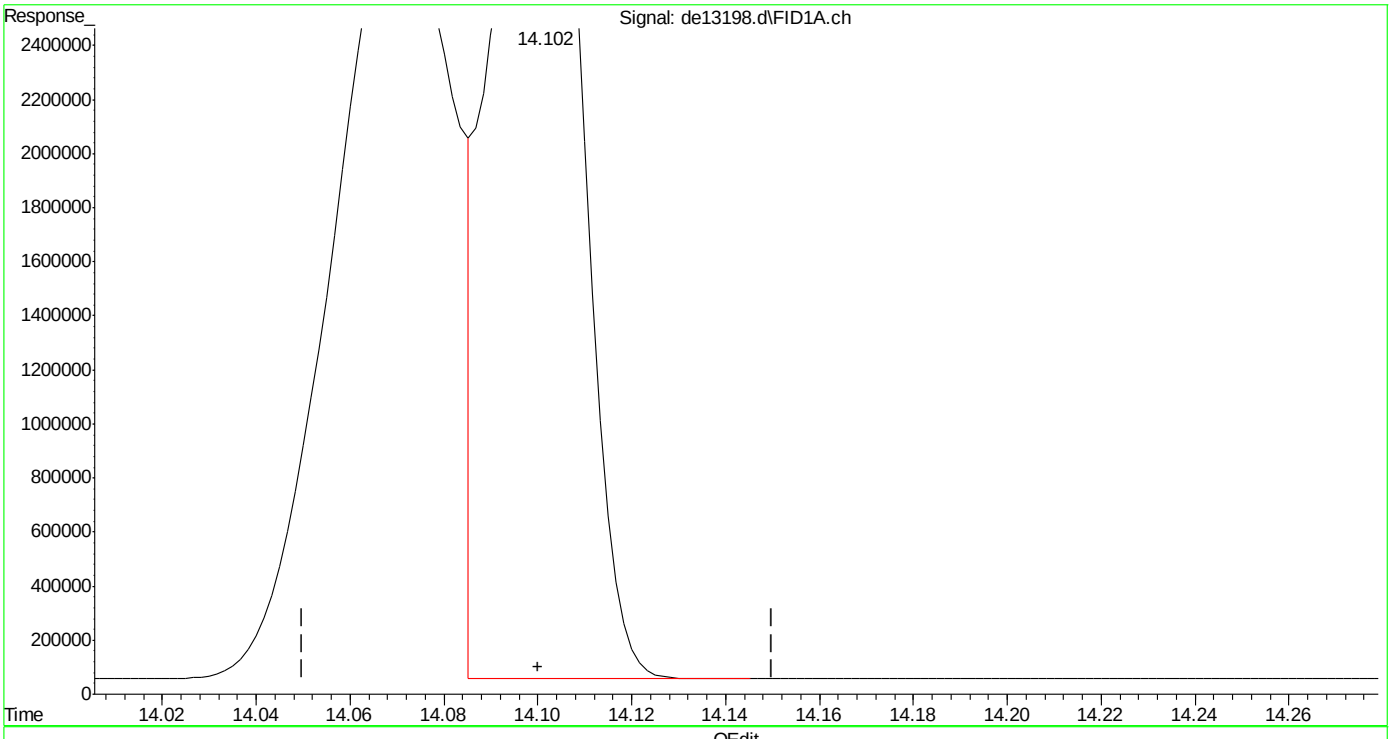
SGS ACCUTEST MC46340

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

SGS ACCUTEST MC46340

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/15/16 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:37:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.688	4281209	46.419 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 232.09%#		
6) s 2-bromonaphthalene	7.415	2842858	45.301 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 226.51%#		
11) s o-terphenyl	9.942	4909356	47.931 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 239.66%#		
35) s 1-chlorooctadecane	11.218	2843759	50.265 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 251.33%#		
Target Compounds			
2) naphthalene	5.248	4748094	46.035 µg/ml
3) 2-methylnaphthalene	6.142	4757630	46.424 µg/ml
5) acenaphthylene	7.250	4714429	46.862 µg/ml
7) acenaphthene	7.490	5054882	48.898 µg/ml
8) fluorene	8.130	4836194	47.616 µg/ml
9) phenanthrene	9.307	4801660	47.185 µg/ml
10) anthracene	9.363	4781443	49.289 µg/ml
12) fluoranthene	10.805	4874358	48.772 µg/ml
13) pyrene	11.062	4988455	49.166 µg/ml
14) benzo(a)anthracene	12.620	4776584	49.409 µg/ml
15) chrysene	12.667	4868167	50.011 µg/ml
16) benzo(B)fluoranthene	13.918	5006876	50.573 µg/mlm
17) benzo(k)fluoranthene	13.947	4924141	52.106 µg/mlm
18) benzo(a)pyrene	14.252	4735451	51.230 µg/ml
19) indeno(1,2,3-cd)pyrene	15.392	5001632	52.839 µg/mlm
20) dibenzo(ah)anthracene	15.430	4757237	52.049 µg/mlm
21) benzo(ghi)perylene	15.613	4796207	52.063 µg/ml
25) h c-9	2.647	3759888	50.897 µg/mlm
26) h c-10	3.815	3849824	52.115 µg/ml
27) naphthalene #2	5.480	4034353	50.510 µg/ml
28) c-12	5.658	3727172	50.454 µg/ml
29) 2-methylnaphthalene #2	6.373	3995485	49.592 µg/ml
30) c-14	7.175	3669944	49.680 µg/ml
31) c-16	8.503	3627868	49.110 µg/ml
32) c-18	9.698	3632168	49.168 µg/ml
33) c-19	10.253	3571494	53.460 µg/ml
34) c-20	10.785	3523038	52.735 µg/ml
36) c-22	11.780	3520876	52.703 µg/ml
37) c-24	12.697	3308854	49.529 µg/ml
38) c-26	13.548	3526100	52.781 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:37:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	14.342	3419949	51.192 µg/ml
40) h	c-30	15.098	3477198	52.049 µg/ml
41) h	c-36	16.983	3191320	47.770 µg/mlm

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

9.4.9

9

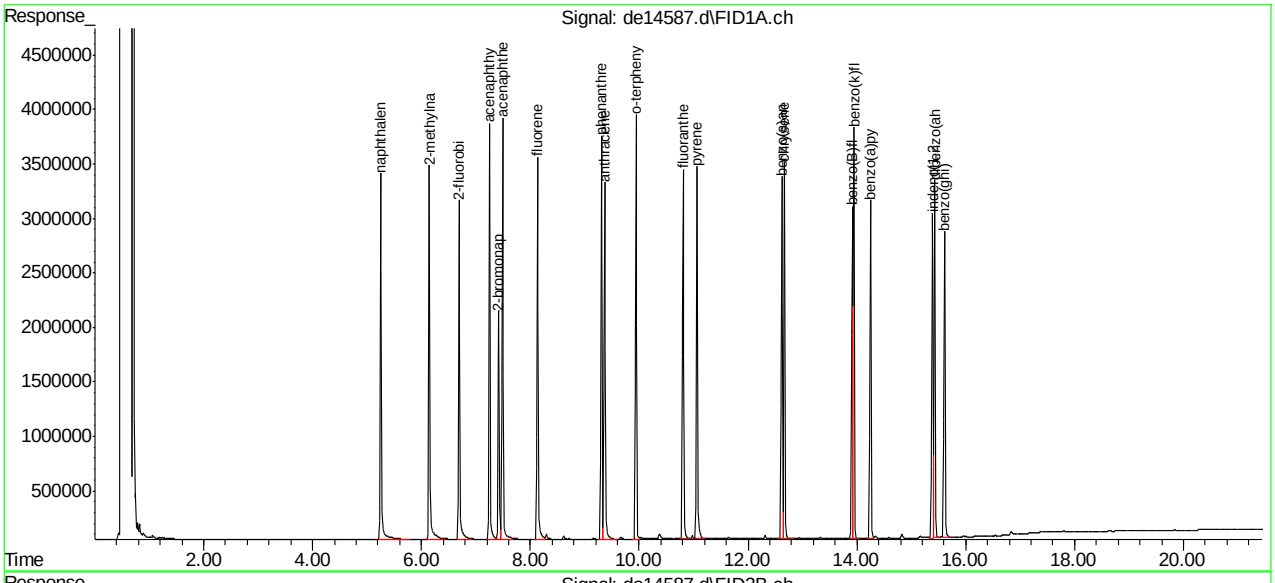
SGS ACCUTEST MC46340

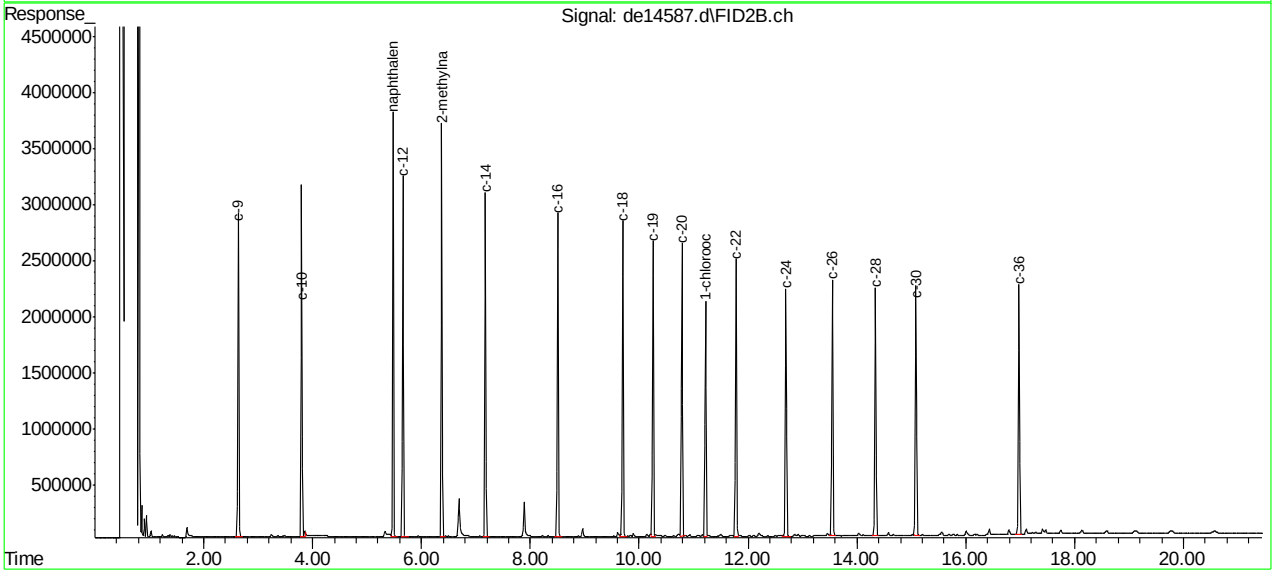
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

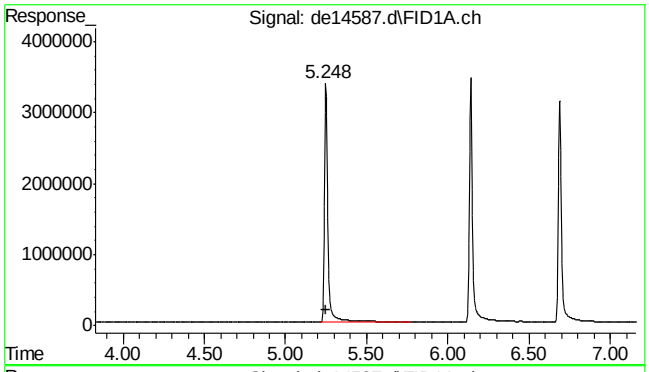
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:37:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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



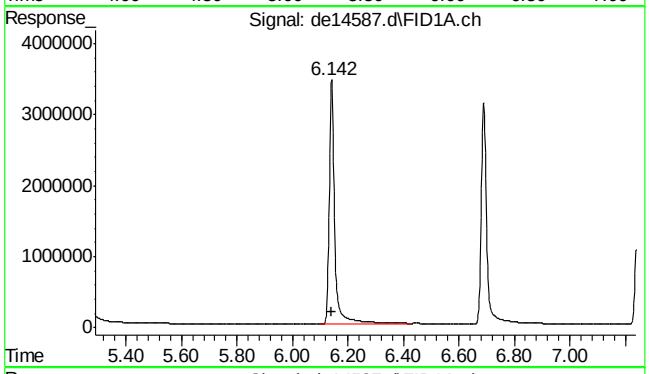


SGS ACCUTEST MC46340



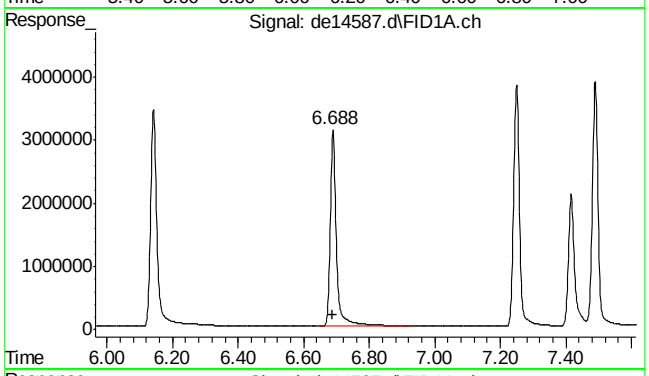
#2 naphthalene

R.T.: 5.248 min
Delta R.T.: 0.000 min
Response: 4748094
Conc: 46.04 µg/ml



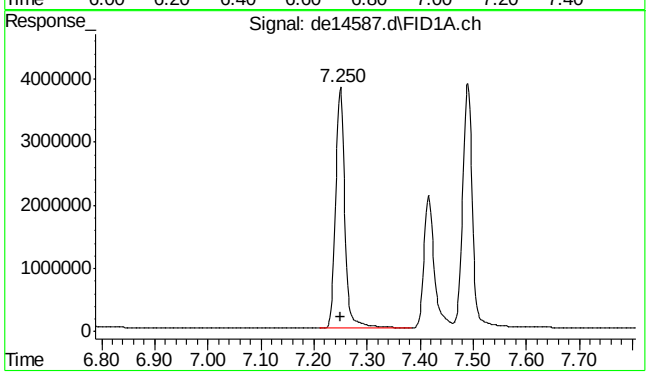
#3 2-methylnaphthalene

R.T.: 6.142 min
Delta R.T.: 0.000 min
Response: 4757630
Conc: 46.42 µg/ml



#4 2-fluorobiphenyl

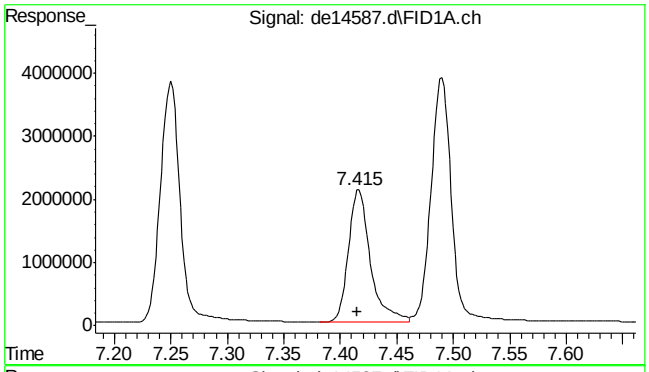
R.T.: 6.688 min
Delta R.T.: 0.000 min
Response: 4281209
Conc: 46.42 µg/ml



#5 acenaphthylene

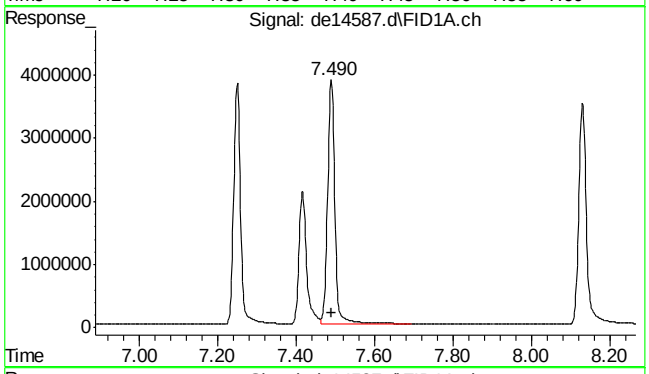
R.T.: 7.250 min
Delta R.T.: 0.000 min
Response: 4714429
Conc: 46.86 µg/ml

SGS ACCUTEST MC46340



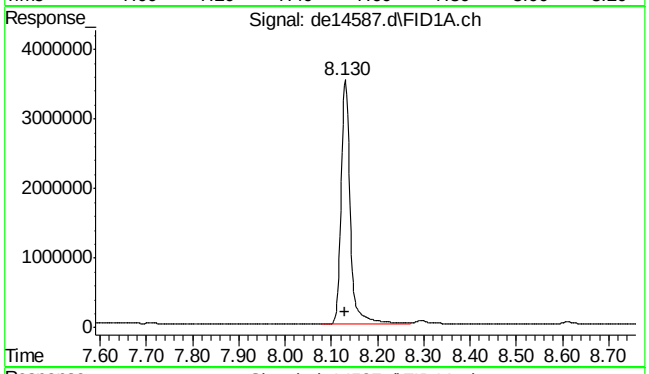
#6 2-bromonaphthalene

R.T.: 7.415 min
Delta R.T.: 0.000 min
Response: 2842858
Conc: 45.30 µg/ml



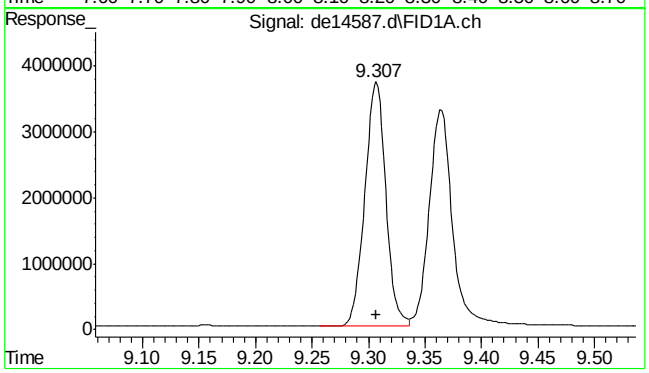
#7 acenaphthene

R.T.: 7.490 min
Delta R.T.: 0.000 min
Response: 5054882
Conc: 48.90 µg/ml



#8 fluorene

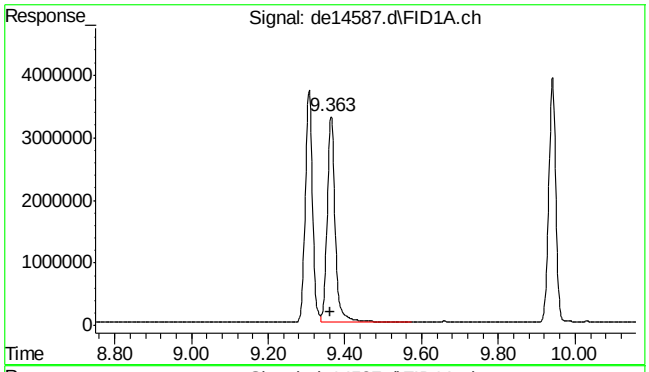
R.T.: 8.130 min
Delta R.T.: 0.000 min
Response: 4836194
Conc: 47.62 µg/ml



#9 phenanthrene

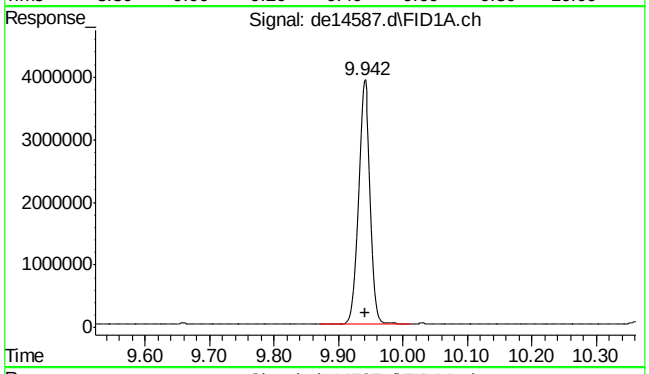
R.T.: 9.307 min
Delta R.T.: 0.000 min
Response: 4801660
Conc: 47.18 µg/ml

SGS ACCUTEST MC46340



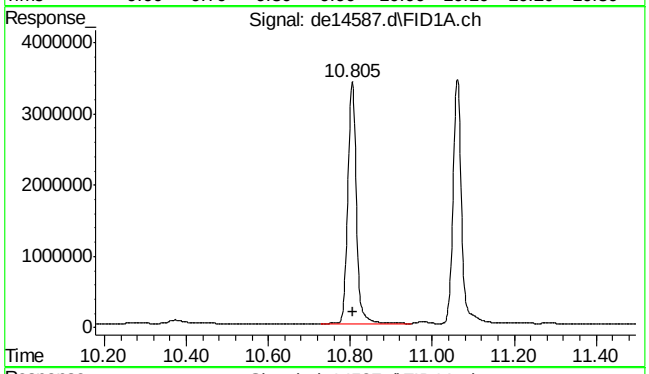
#10 anthracene

R.T.: 9.363 min
Delta R.T.: 0.000 min
Response: 4781443
Conc: 49.29 µg/ml



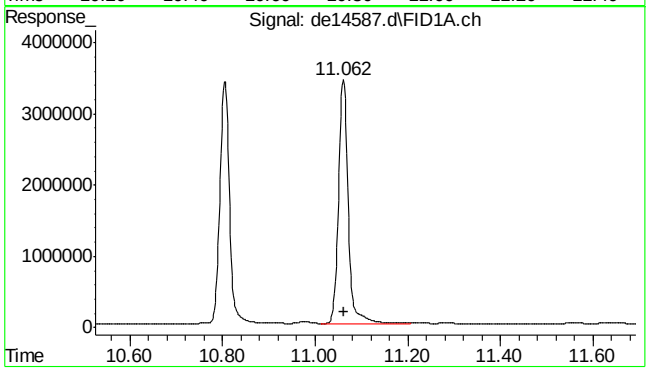
#11 o-terphenyl

R.T.: 9.942 min
Delta R.T.: 0.000 min
Response: 4909356
Conc: 47.93 µg/ml



#12 fluoranthene

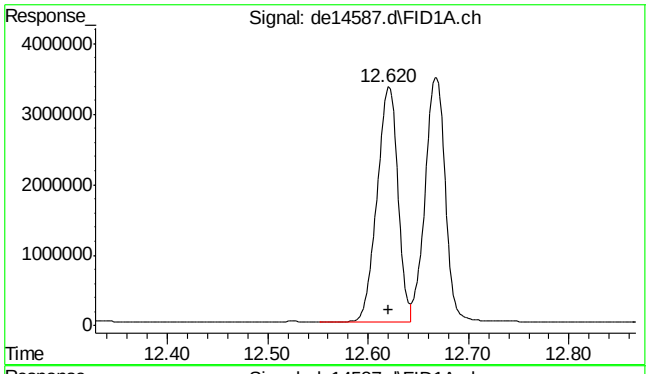
R.T.: 10.805 min
Delta R.T.: 0.000 min
Response: 4874358
Conc: 48.77 µg/ml



#13 pyrene

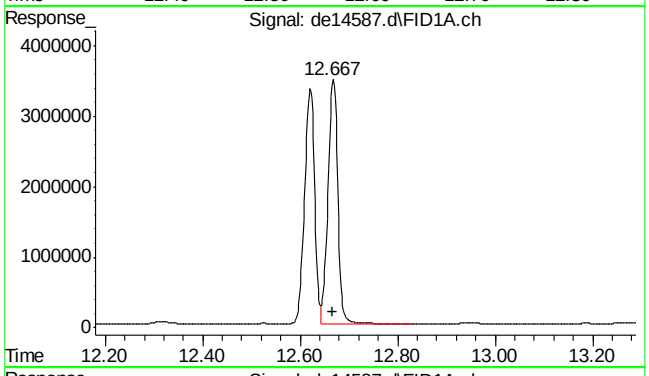
R.T.: 11.062 min
Delta R.T.: 0.000 min
Response: 4988455
Conc: 49.17 µg/ml

SGS ACCUTEST MC46340



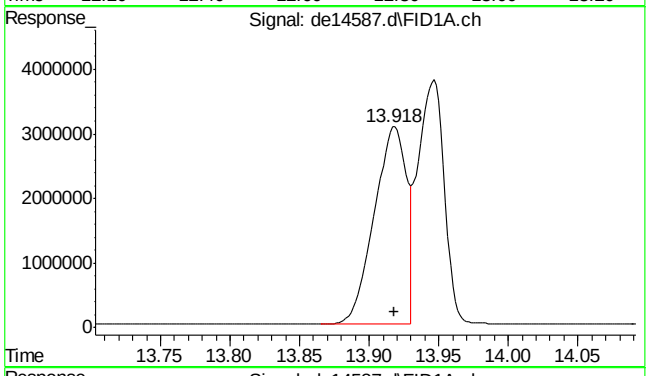
#14 benzo(a)anthracene

R.T.: 12.620 min
Delta R.T.: 0.000 min
Response: 4776584
Conc: 49.41 µg/ml



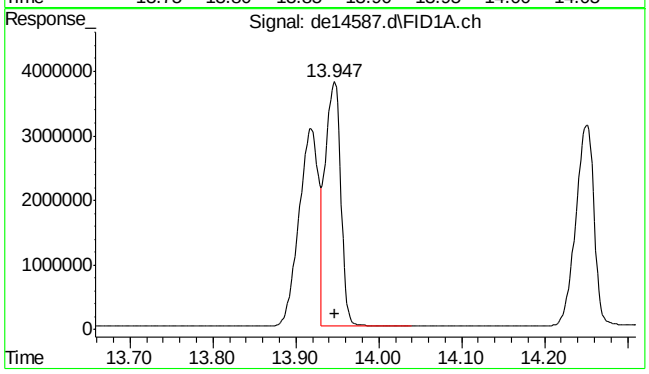
#15 chrysene

R.T.: 12.667 min
Delta R.T.: 0.000 min
Response: 4868167
Conc: 50.01 µg/ml



#16 benzo(B)fluoranthene

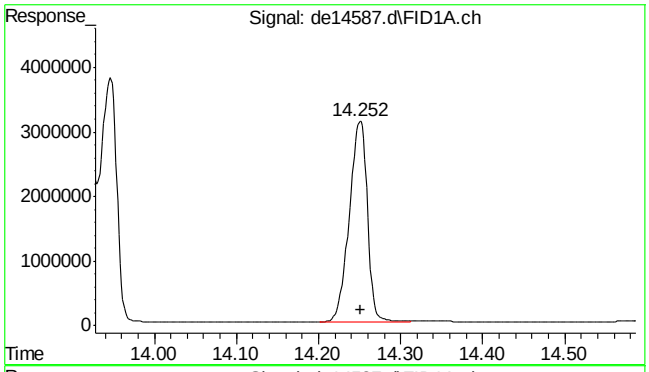
R.T.: 13.918 min
Delta R.T.: 0.000 min
Response: 5006876
Conc: 50.57 µg/ml m



#17 benzo(k)fluoranthene

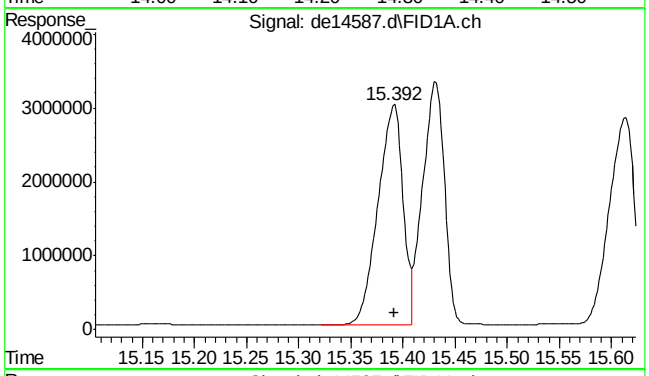
R.T.: 13.947 min
Delta R.T.: 0.000 min
Response: 4924141
Conc: 52.11 µg/ml m

SGS ACCUTEST MC46340



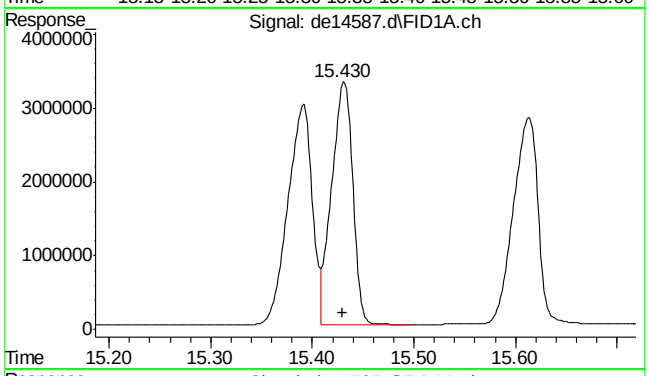
#18 benzo(a)pyrene

R.T.: 14.252 min
Delta R.T.: 0.000 min
Response: 4735451
Conc: 51.23 µg/ml



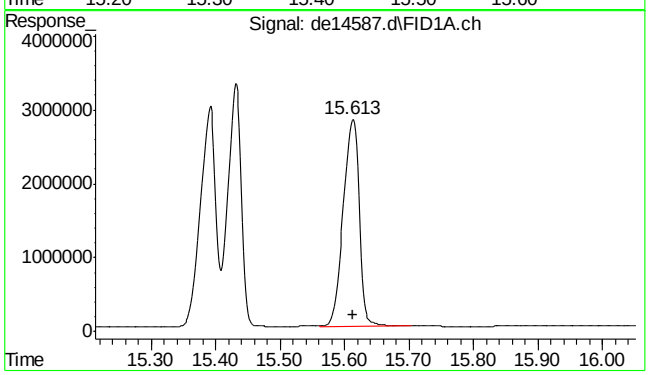
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.392 min
Delta R.T.: 0.000 min
Response: 5001632
Conc: 52.84 µg/ml m



#20 dibenzo(ah)anthracene

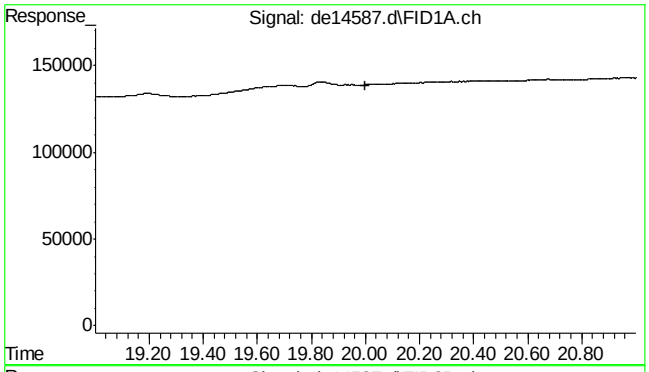
R.T.: 15.430 min
Delta R.T.: 0.000 min
Response: 4757237
Conc: 52.05 µg/ml m



#21 benzo(ghi)perylene

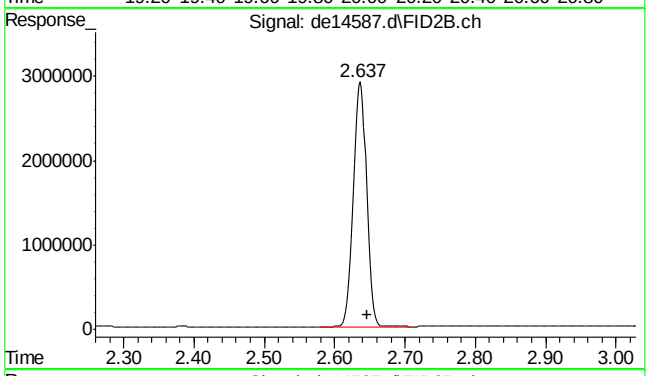
R.T.: 15.613 min
Delta R.T.: 0.000 min
Response: 4796207
Conc: 52.06 µg/ml

SGS ACCUTEST MC46340



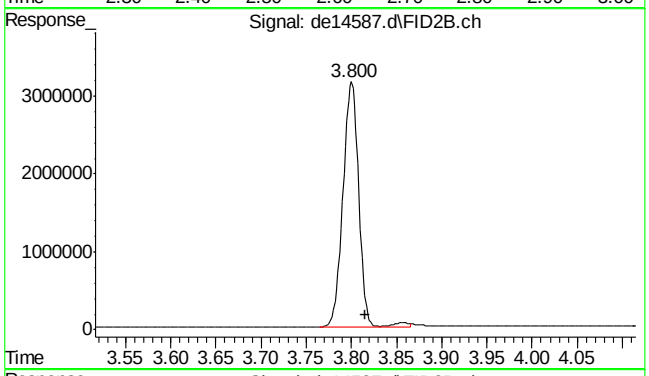
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



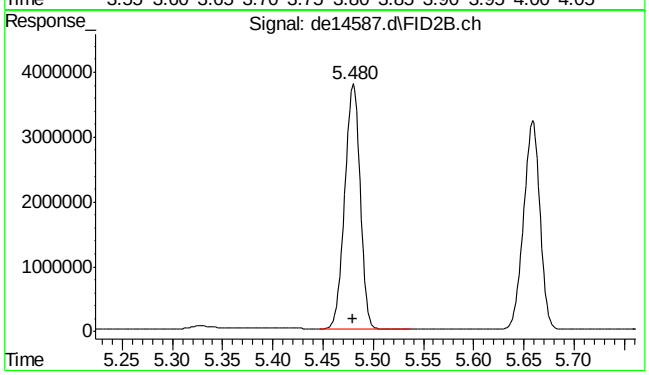
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3759888
Conc: 50.90 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3849824
Conc: 52.11 µg/ml



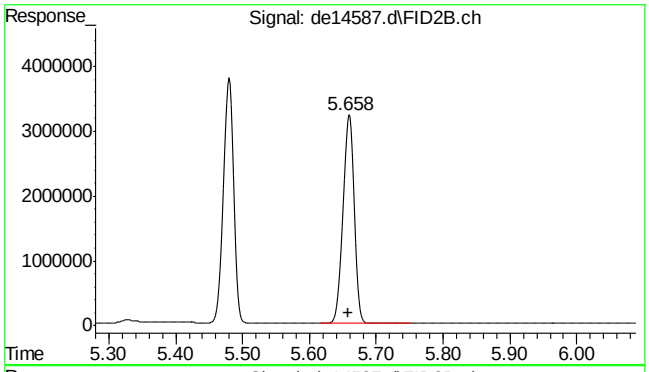
#27 naphthalene #2

R.T.: 5.480 min
Delta R.T.: 0.000 min
Response: 4034353
Conc: 50.51 µg/ml

9.4.9

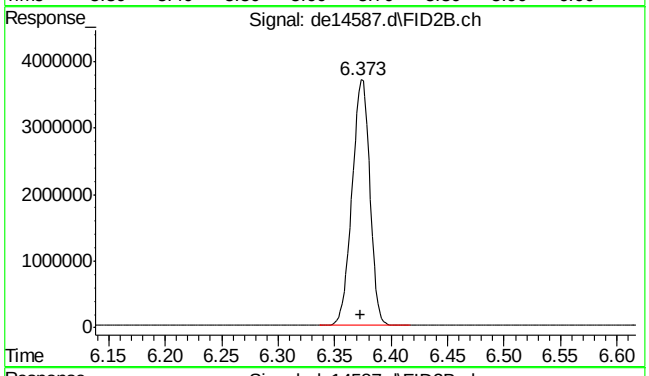
9

SGS ACCUTEST MC46340



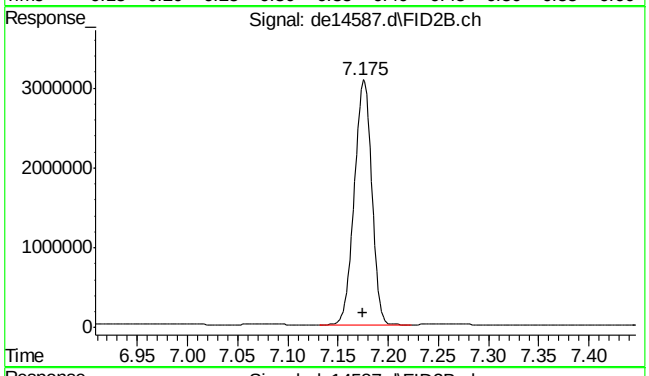
#28 c-12

R.T.: 5.658 min
Delta R.T.: 0.000 min
Response: 3727172
Conc: 50.45 µg/ml



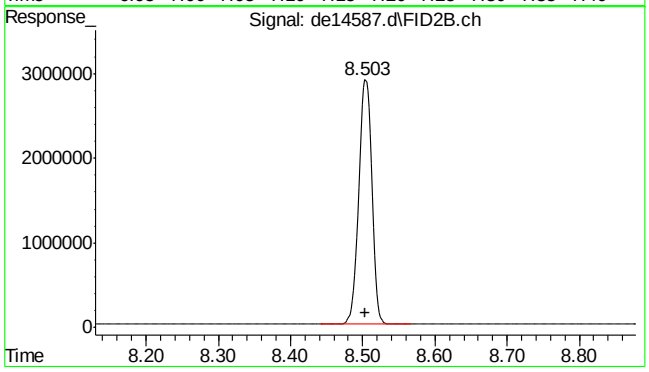
#29 2-methylnaphthalene #2

R.T.: 6.373 min
Delta R.T.: 0.000 min
Response: 3995485
Conc: 49.59 µg/ml



#30 c-14

R.T.: 7.175 min
Delta R.T.: 0.000 min
Response: 3669944
Conc: 49.68 µg/ml



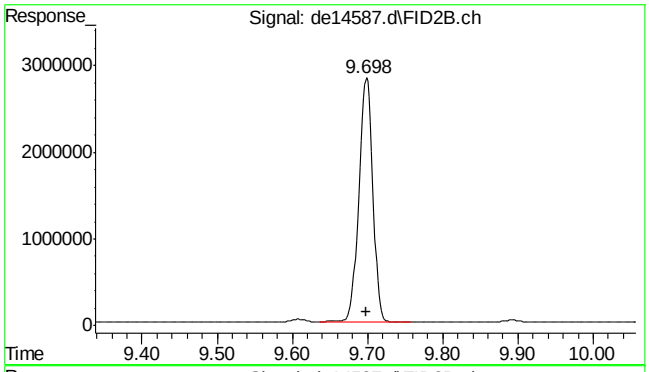
#31 c-16

R.T.: 8.503 min
Delta R.T.: 0.000 min
Response: 3627868
Conc: 49.11 µg/ml

9.4.9

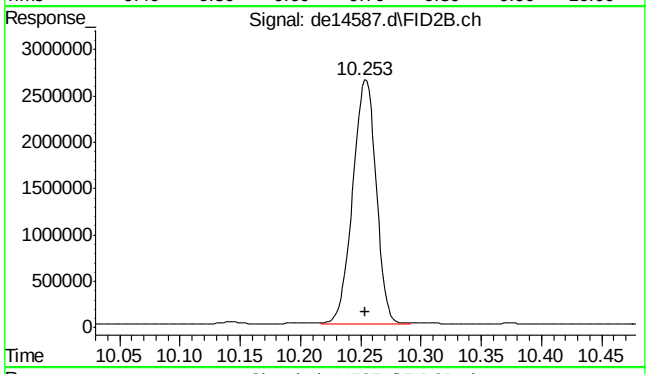
9

SGS ACCUTEST MC46340



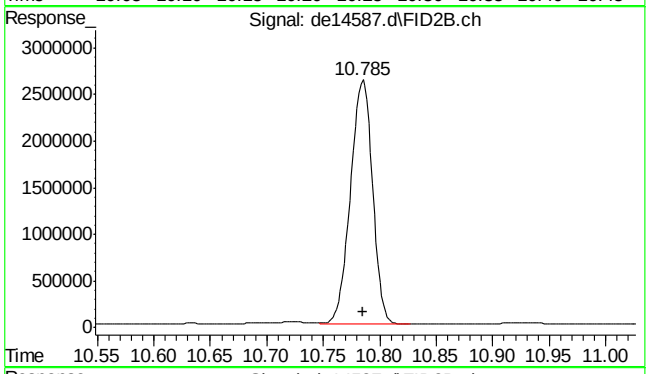
#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 3632168
Conc: 49.17 µg/ml



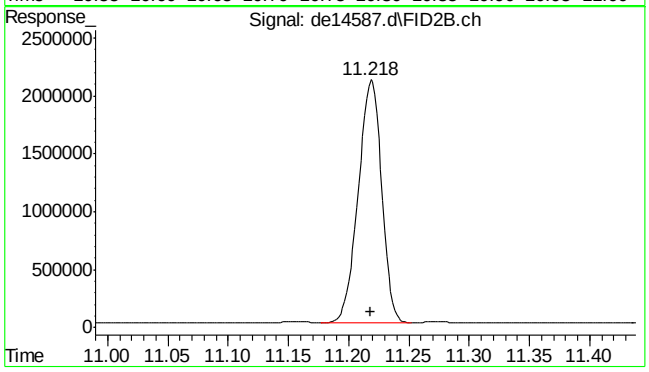
#33 c-19

R.T.: 10.253 min
Delta R.T.: 0.000 min
Response: 3571494
Conc: 53.46 µg/ml



#34 c-20

R.T.: 10.785 min
Delta R.T.: 0.000 min
Response: 3523038
Conc: 52.74 µg/ml



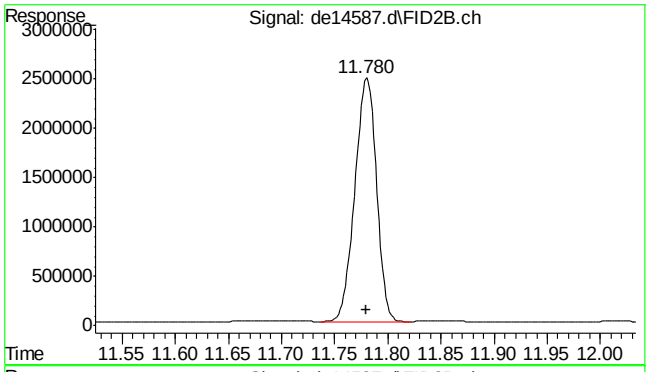
#35 1-chlorooctadecane

R.T.: 11.218 min
Delta R.T.: 0.000 min
Response: 2843759
Conc: 50.27 µg/ml

9.4.9

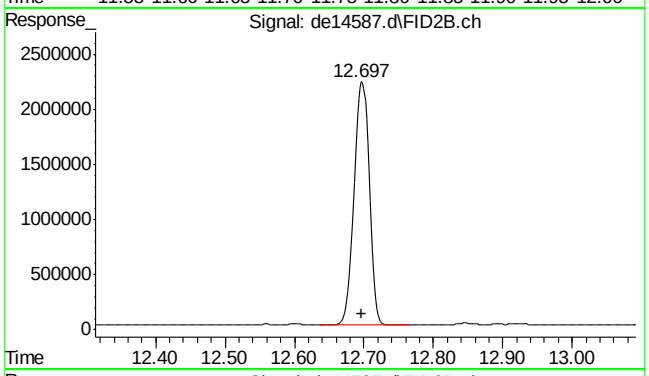
9

SGS ACCUTEST MC46340



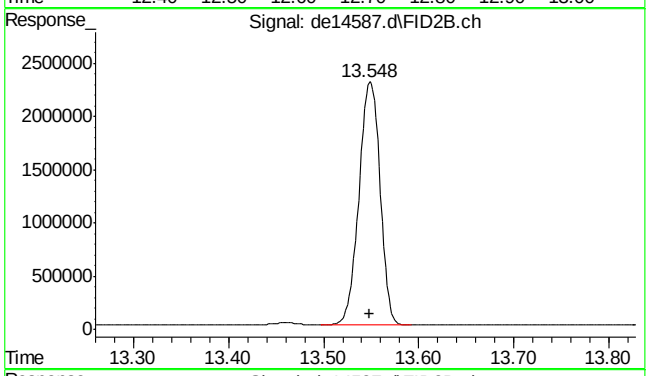
#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 3520876
Conc: 52.70 µg/ml



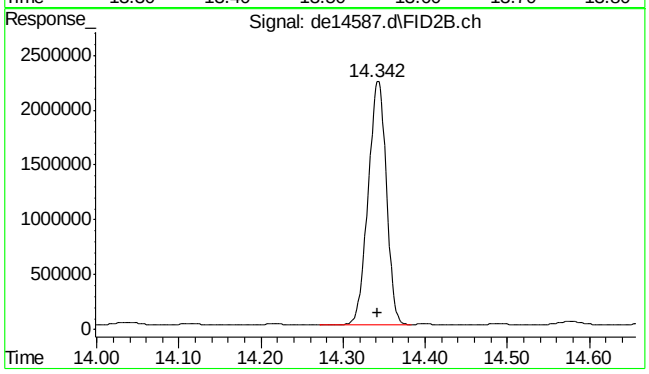
#37 c-24

R.T.: 12.697 min
Delta R.T.: 0.000 min
Response: 3308854
Conc: 49.53 µg/ml



#38 c-26

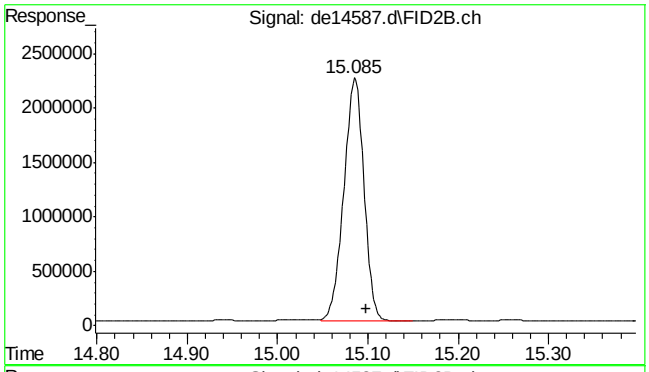
R.T.: 13.548 min
Delta R.T.: 0.000 min
Response: 3526100
Conc: 52.78 µg/ml



#39 c-28

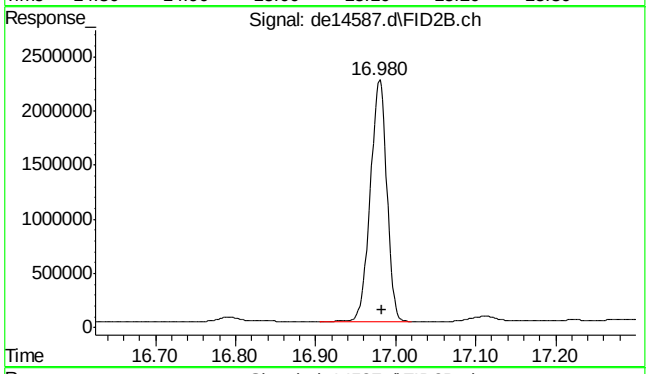
R.T.: 14.342 min
Delta R.T.: 0.000 min
Response: 3419949
Conc: 51.19 µg/ml

SGS ACCUTEST MC46340



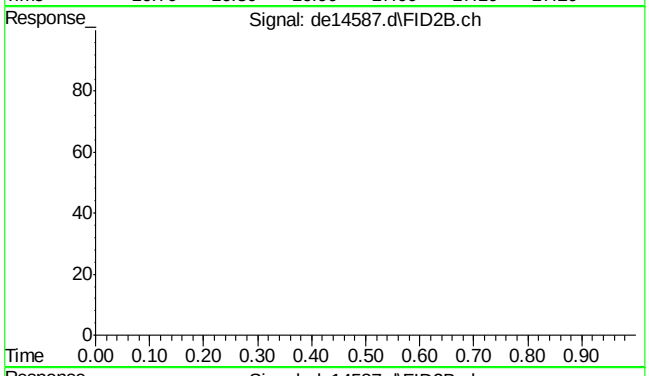
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3477198
Conc: 52.05 µg/ml



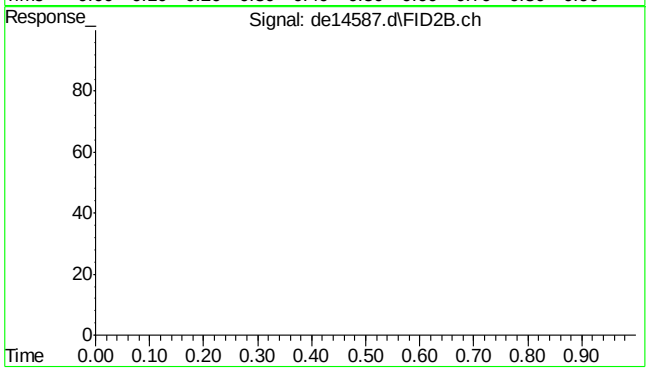
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3191320
Conc: 47.77 µg/ml m



#42 bht

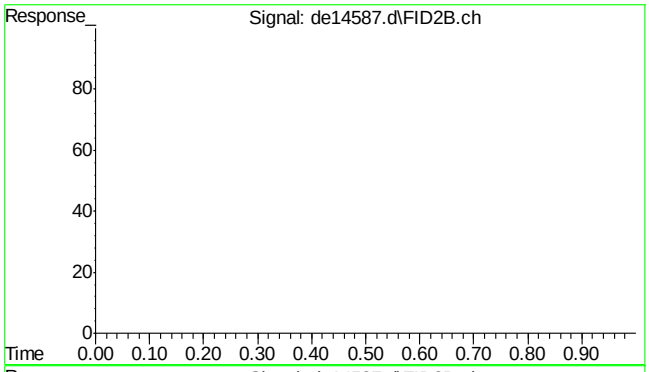
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

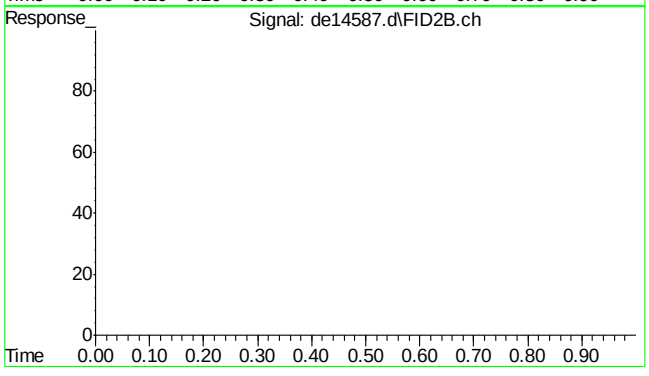
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46340



#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.

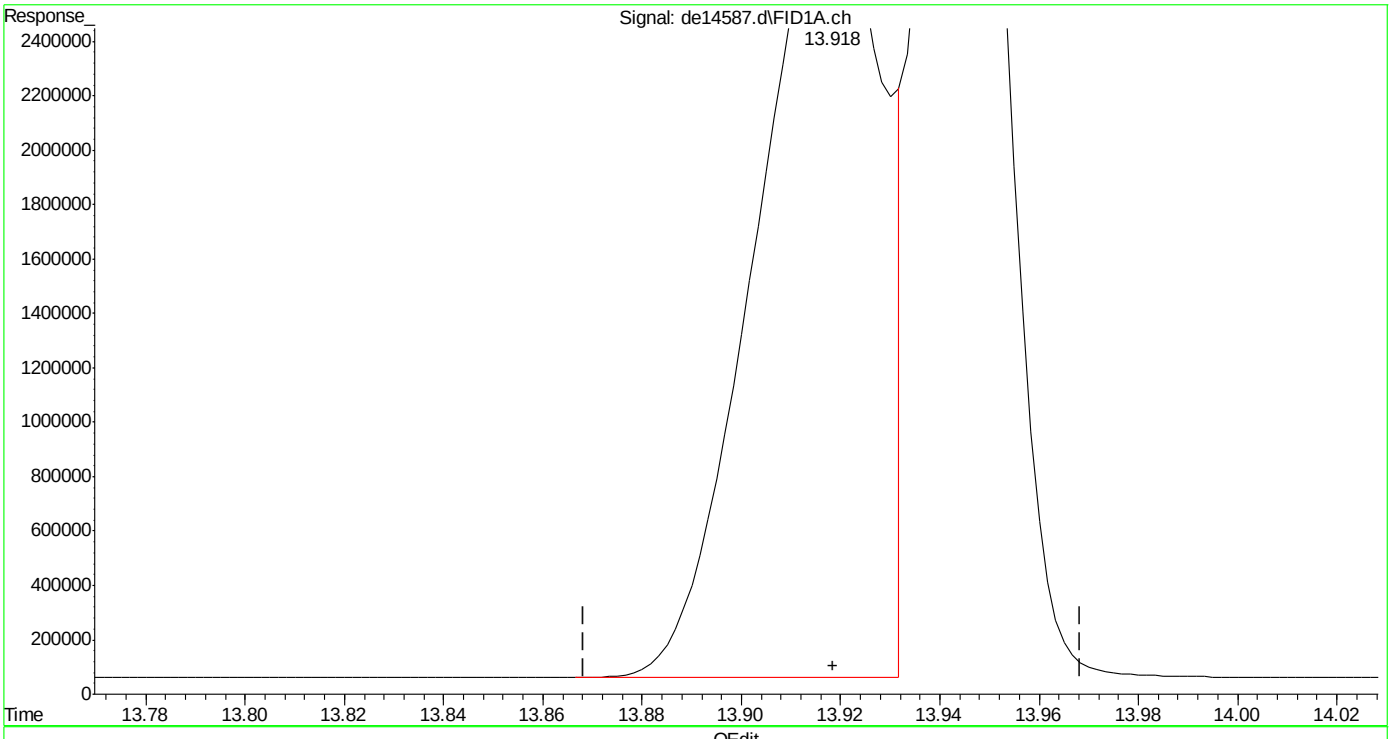
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.918min 52.738 µg/ml
response 5221214

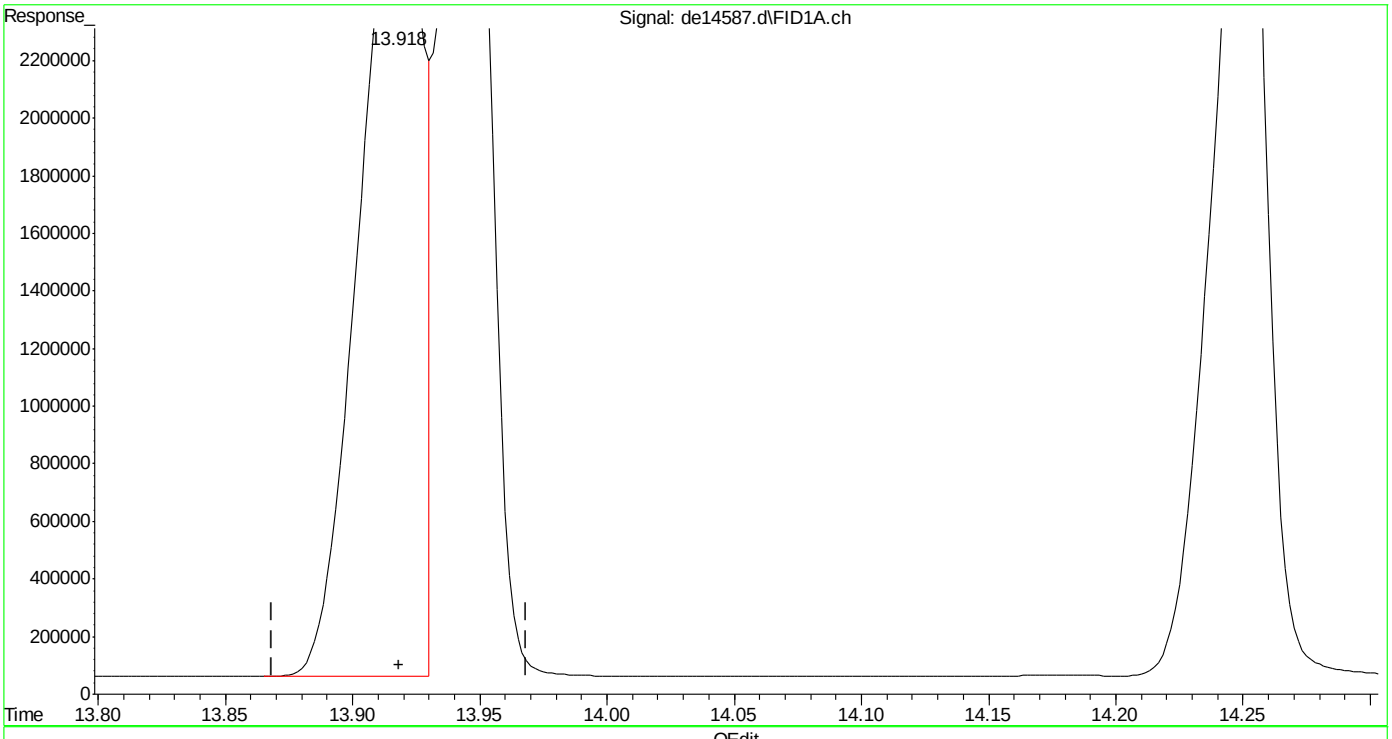
(+) = Expected Retention Time
EPH160615W.M Wed Jun 15 14:36:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.918min 50.573 µg/ml m
response 5006876

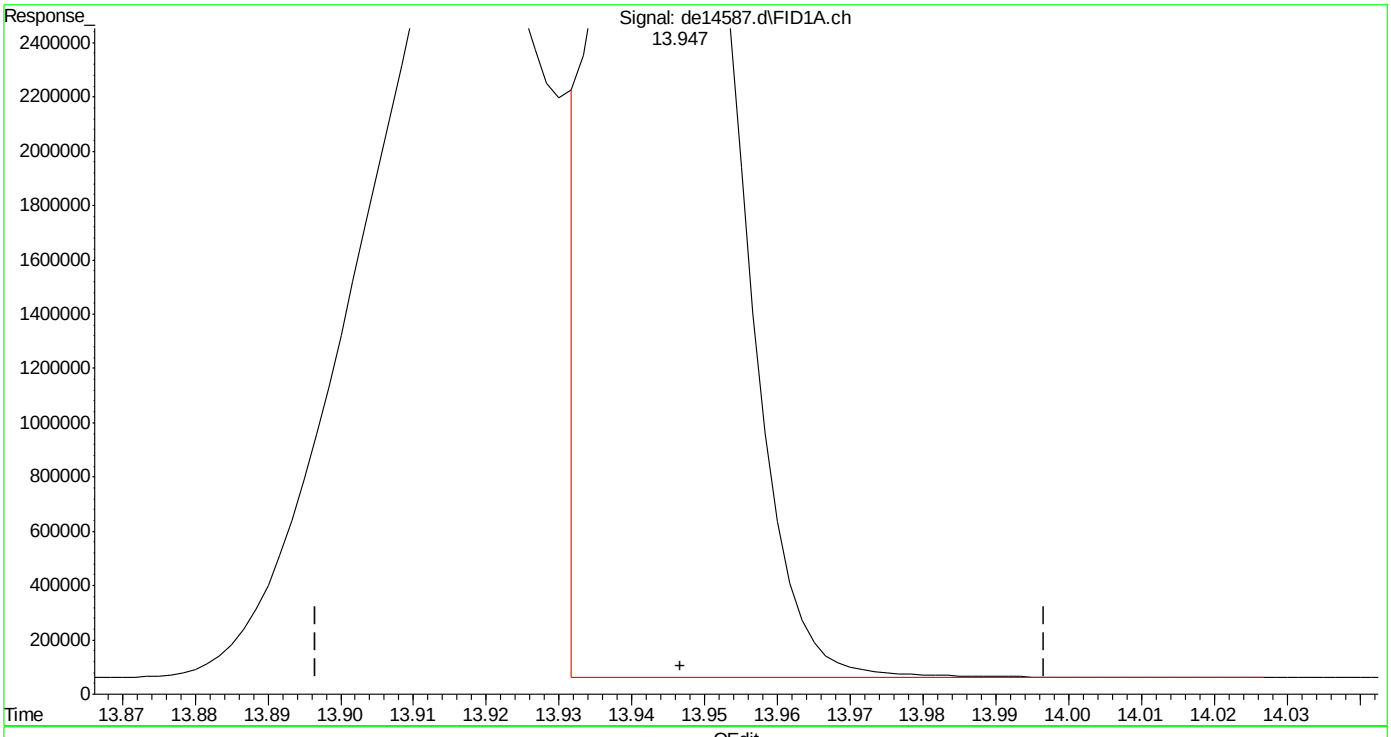
(+) = Expected Retention Time
EPH160615W.M Wed Jun 15 14:36:27 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.947min 49.686 µg/ml
response 4695454

(+) = Expected Retention Time

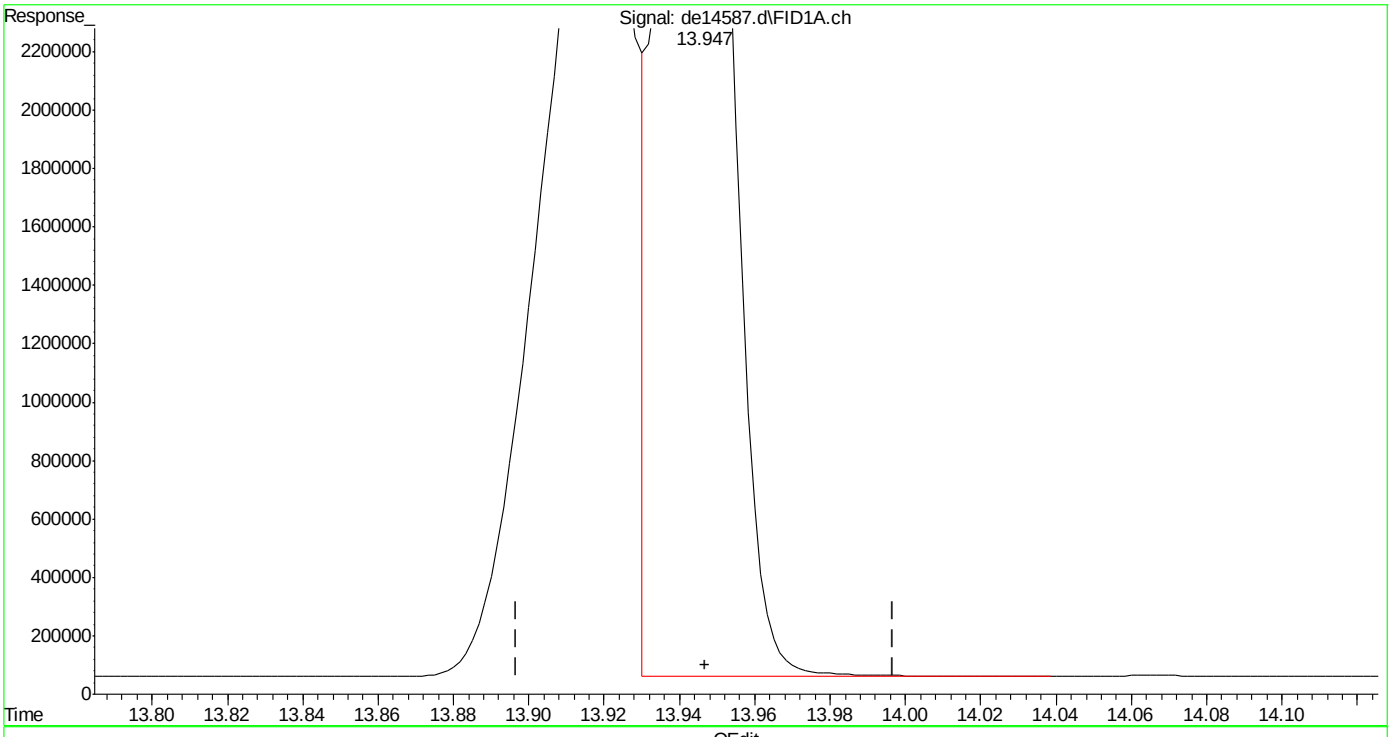
EPH160615W.M Wed Jun 15 14:36:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.947min 52.106 µg/ml m
response 4924141

(+) = Expected Retention Time

EPH160615W.M Wed Jun 15 14:36:41 2016

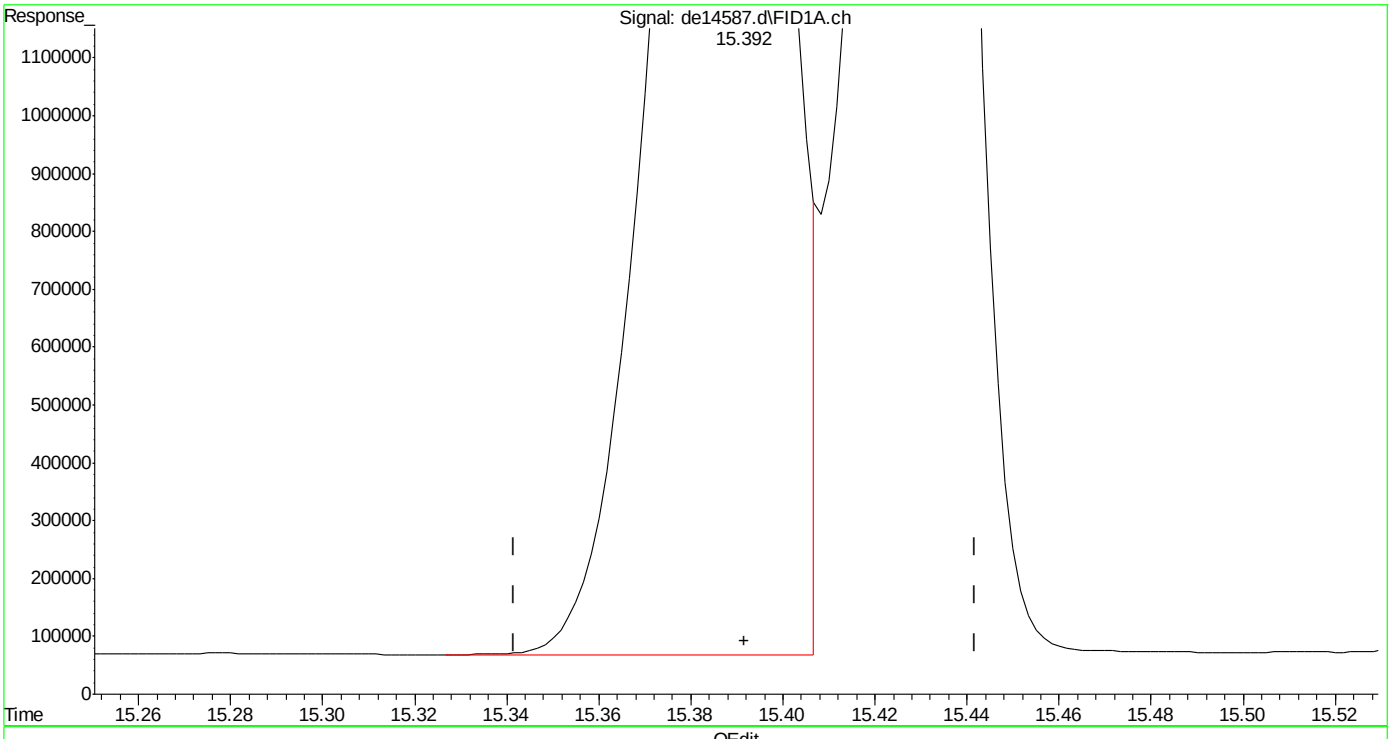
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.392min 51.984 µg/ml
response 4920735

(+) = Expected Retention Time
EPH160615W.M Wed Jun 15 14:36:47 2016

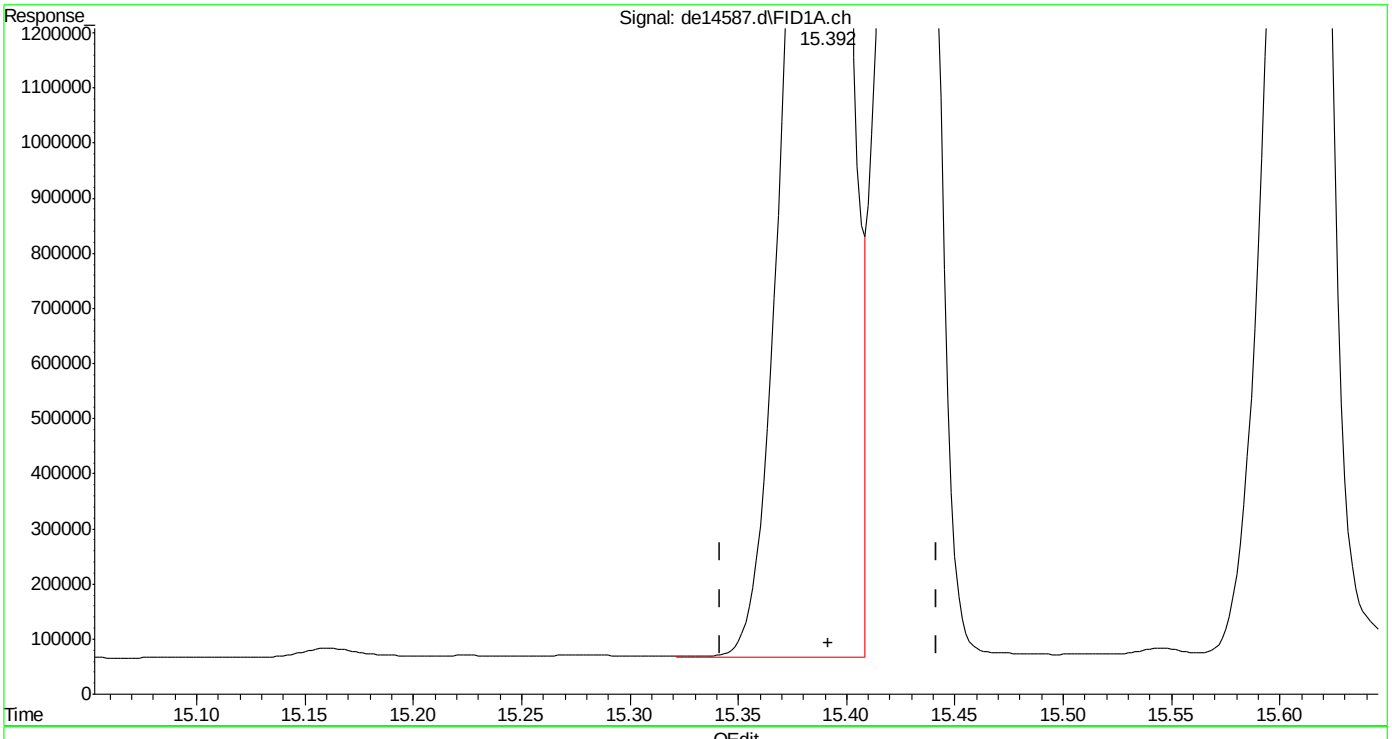
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.392min 52.839 µg/ml m
response 5001632

(+) = Expected Retention Time

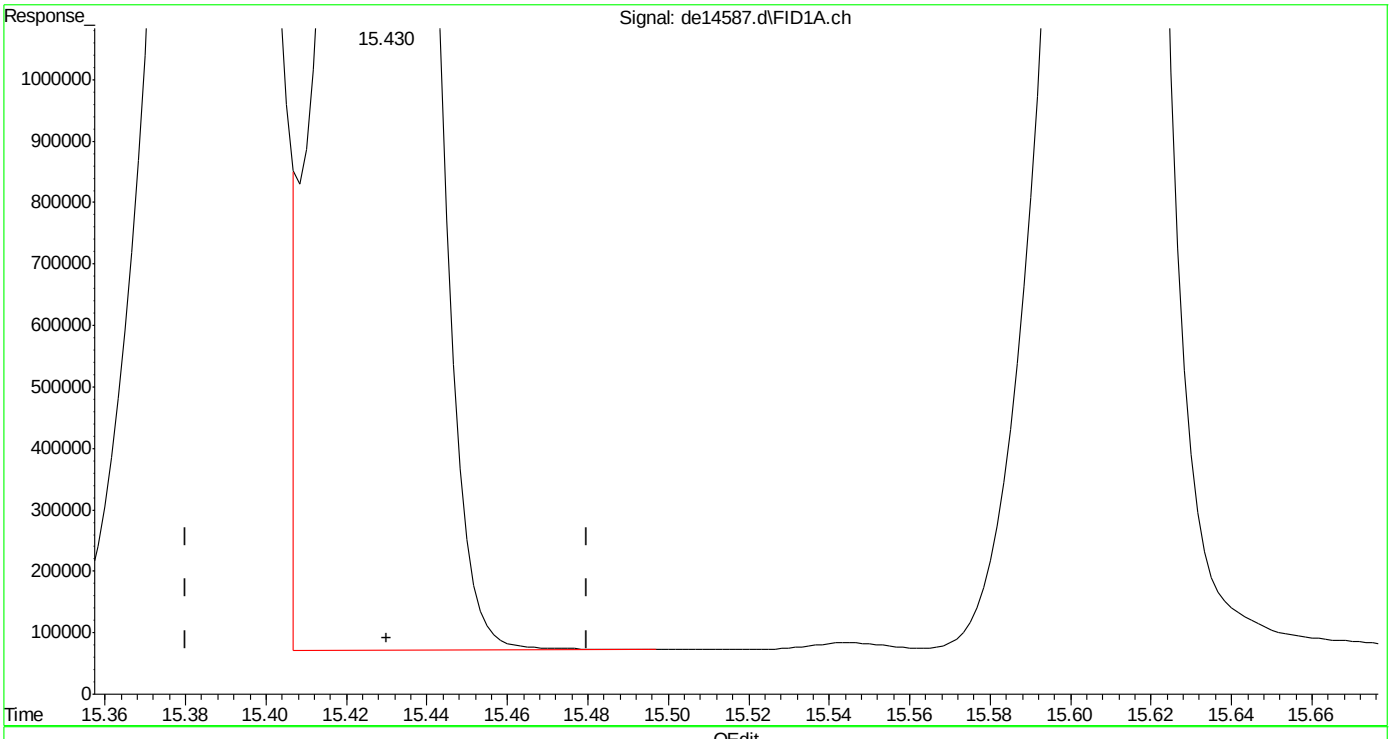
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.430min 52.739 µg/ml
response 4820277

(+) = Expected Retention Time

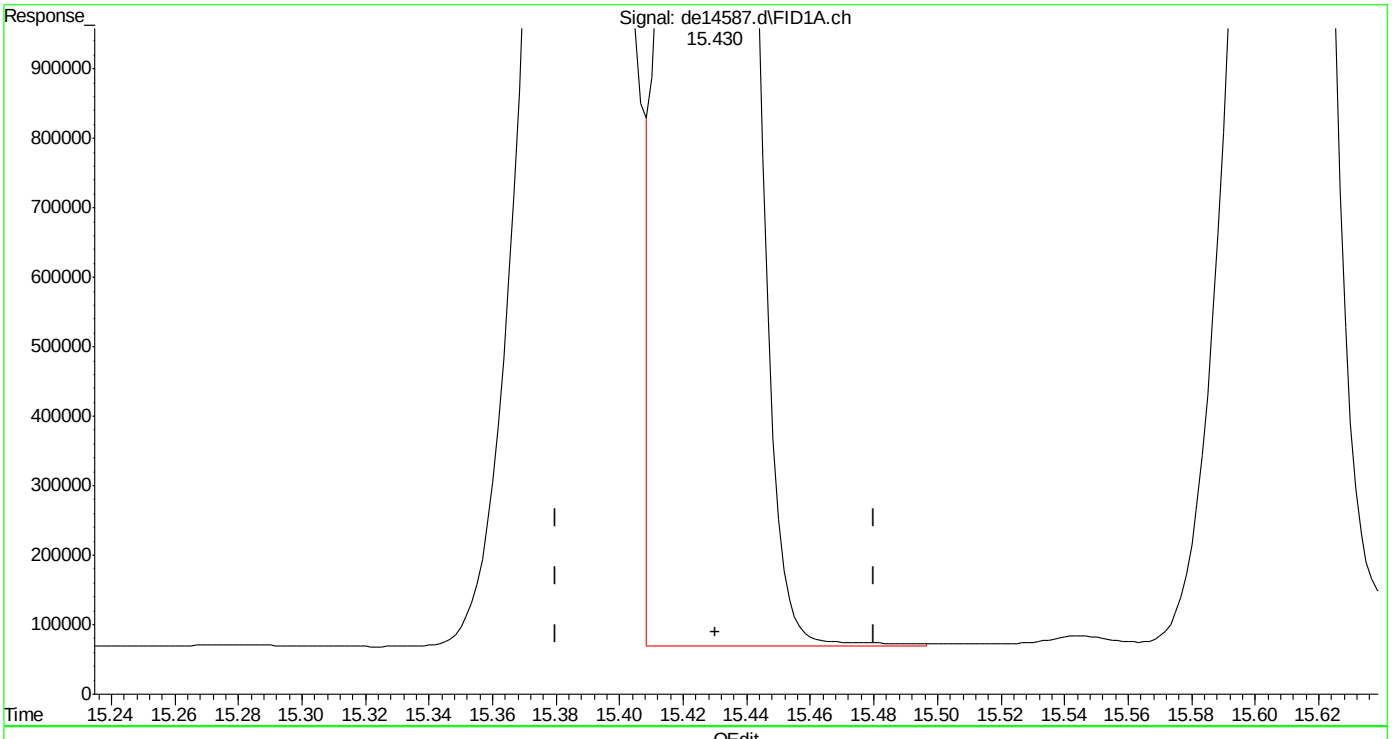
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14587.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 2:09 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 15 14:36:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.430min 52.049 µg/ml m
response 4757237

(+) = Expected Retention Time
EPH160615W.M Wed Jun 15 14:37:25 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/16/16 10:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 7:43 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47843,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:33:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.685	4102153	44.477 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 222.38%#
6) s	2-bromonaphthalene	7.412	2661964	42.418 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 212.09%#
11) s	o-terphenyl	9.938	4692396	45.812 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 229.06%#
35) s	1-chlorooctadecane	11.218	3223721	56.982 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 284.91%#
	Target Compounds			
2)	naphthalene	5.245	4517086	43.796 µg/ml
3)	2-methylnaphthalene	6.138	4531339	44.216 µg/ml
5)	acenaphthylene	7.245	4503796	44.769 µg/ml
7)	acenaphthene	7.485	4711224	45.574 µg/ml
8)	fluorene	8.127	4618551	45.473 µg/ml
9)	phenanthrene	9.302	4559521	44.805 µg/ml
10)	anthracene	9.360	4607258	47.494 µg/ml
12)	fluoranthene	10.802	4648776	46.515 µg/ml
13)	pyrene	11.060	4754541	46.860 µg/ml
14)	benzo(a)anthracene	12.617	4565013	47.220 µg/ml
15)	chrysene	12.663	4617082	47.432 µg/ml
16)	benzo(B)fluoranthene	13.912	4619519	46.661 µg/ml
17)	benzo(k)fluoranthene	13.942	4796337	50.754 µg/ml
18)	benzo(a)pyrene	14.245	4497711	48.658 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.385	4709488	49.753 µg/mlm
20)	dibenzo(ah)anthracene	15.425	4555211	49.839 µg/mlm
21)	benzo(ghi)perylene	15.608	4557653	49.473 µg/ml
25) h	c-9	2.647	4118924	55.757 µg/mlm
26) h	c-10	3.815	4163699	56.364 µg/ml
27)	naphthalene #2	5.480	4413647	55.259 µg/ml
28)	c-12	5.658	4108337	55.614 µg/ml
29)	2-methylnaphthalene #2	6.375	4388209	54.467 µg/ml
30)	c-14	7.177	4091122	55.381 µg/ml
31)	c-16	8.505	4069202	55.084 µg/ml
32)	c-18	9.698	4089450	55.358 µg/ml
33)	c-19	10.255	4069393	60.913 µg/ml
34)	c-20	10.785	3990456	59.732 µg/ml
36)	c-22	11.780	3978288	59.549 µg/ml
37)	c-24	12.698	3727022	55.788 µg/ml
38)	c-26	13.550	3971046	59.441 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 7:43 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47843,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:33:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	14.342	3840779	57.491 µg/ml
40) h	c-30	15.098	3865164	57.856 µg/ml
41) h	c-36	16.983	3543748	53.045 µg/mlm

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

9.4.10

9

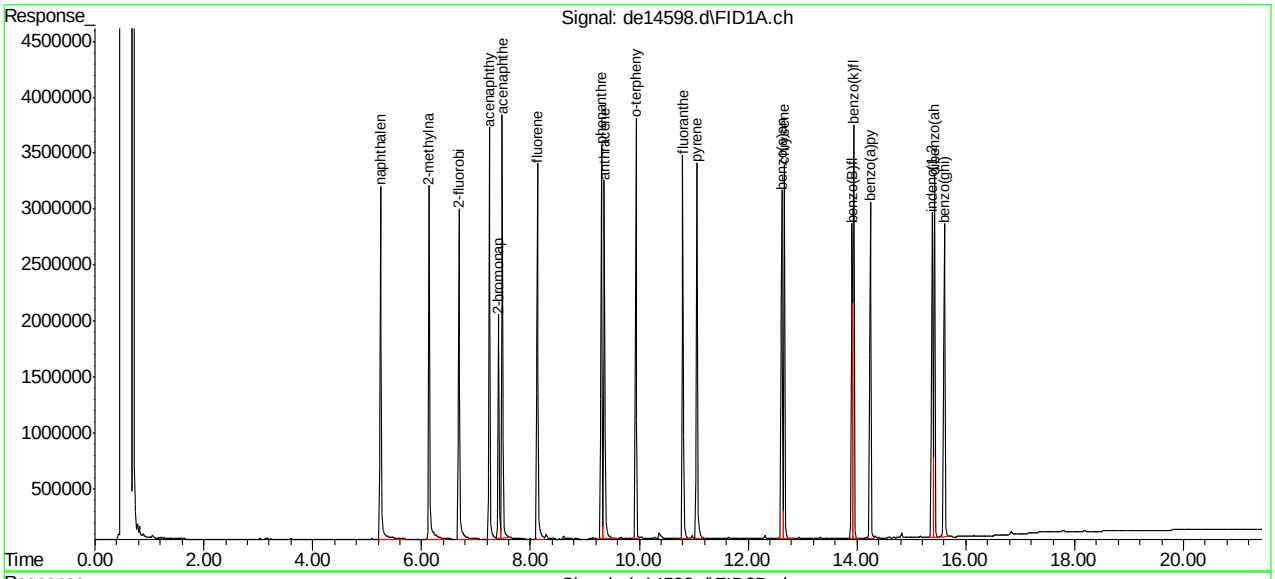
SGS ACCUTEST MC46340

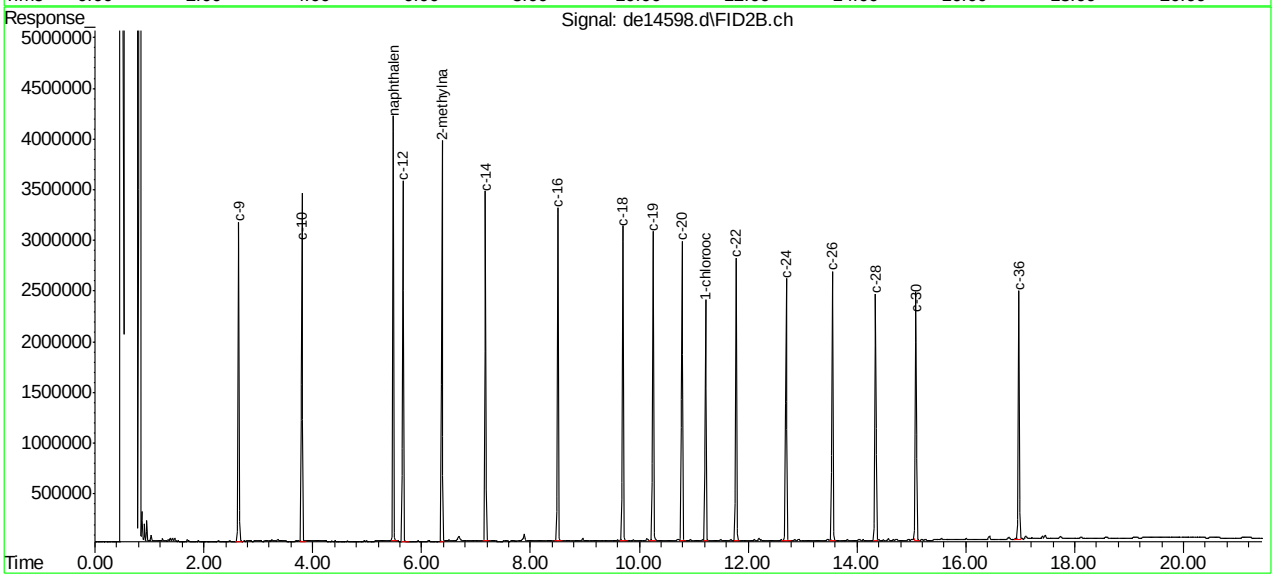
Quantitation Report (QT Reviewed)

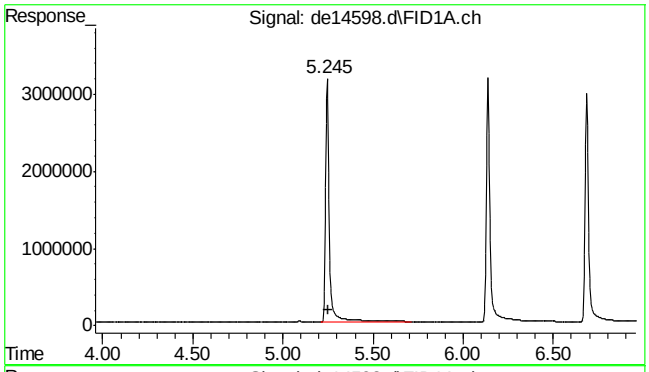
Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 7:43 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47843,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:33:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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

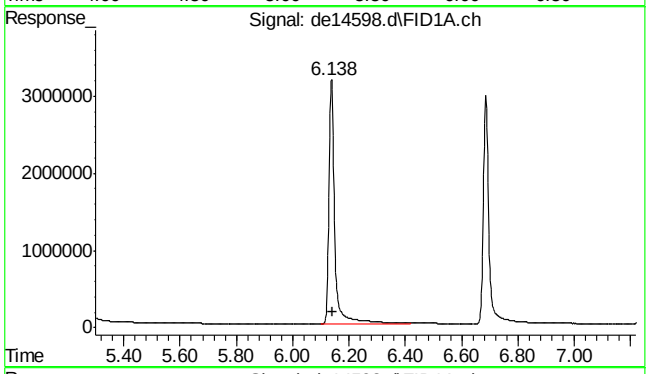






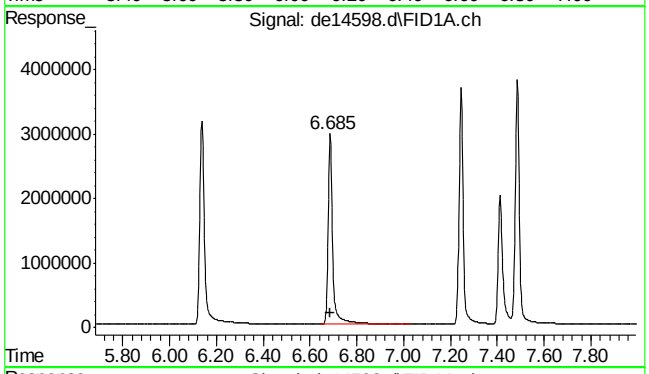
#2 naphthalene

R.T.: 5.245 min
Delta R.T.: -0.003 min
Response: 4517086
Conc: 43.80 µg/ml



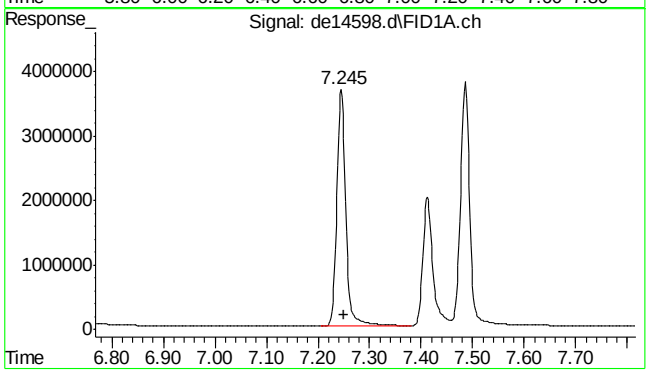
#3 2-methylnaphthalene

R.T.: 6.138 min
Delta R.T.: -0.003 min
Response: 4531339
Conc: 44.22 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.685 min
Delta R.T.: -0.003 min
Response: 4102153
Conc: 44.48 µg/ml



#5 acenaphthylene

R.T.: 7.245 min
Delta R.T.: -0.005 min
Response: 4503796
Conc: 44.77 µg/ml

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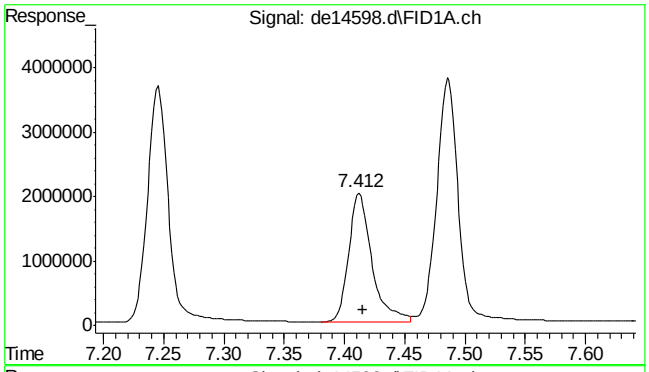
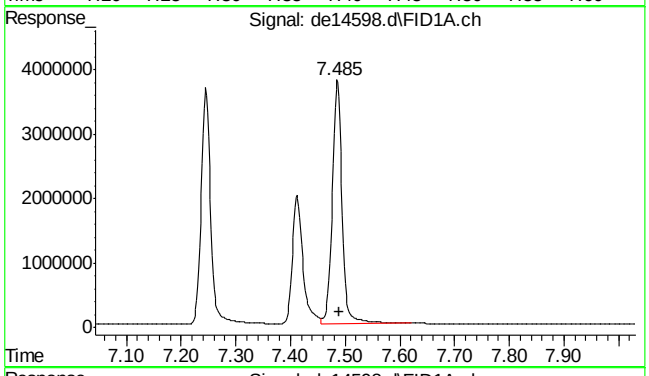


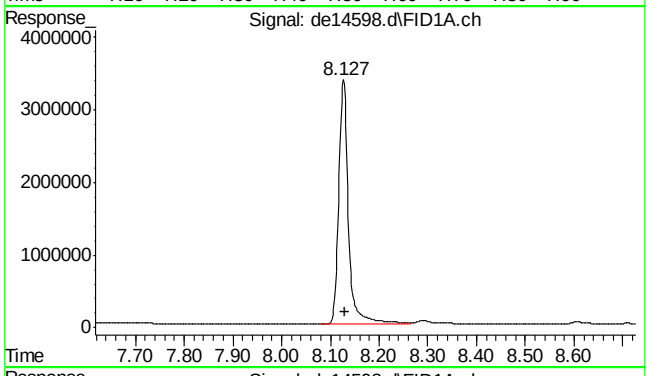
#6 2-bromonaphthalene

R.T.: 7.412 min
Delta R.T.: -0.003 min
Response: 2661964
Conc: 42.42 µg/ml



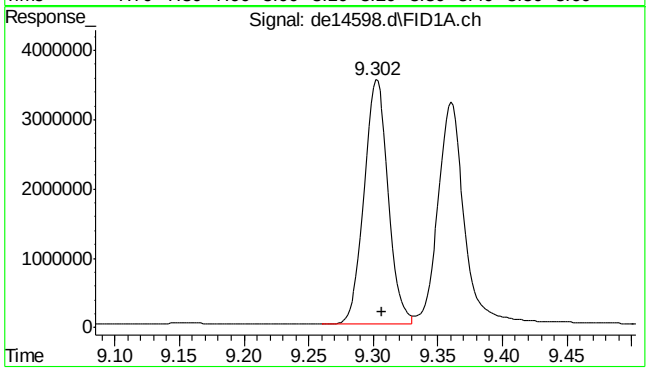
#7 acenaphthene

R.T.: 7.485 min
Delta R.T.: -0.005 min
Response: 4711224
Conc: 45.57 µg/ml



#8 fluorene

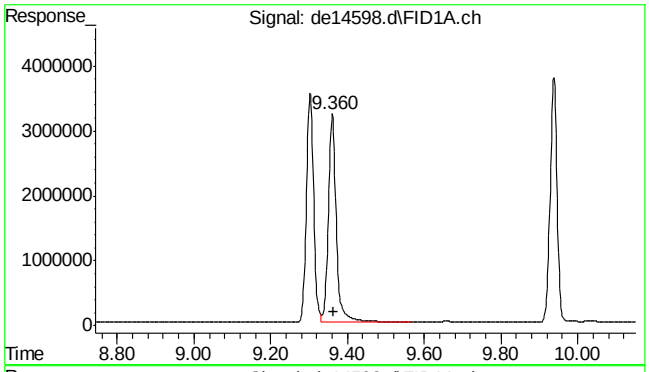
R.T.: 8.127 min
Delta R.T.: -0.003 min
Response: 4618551
Conc: 45.47 µg/ml



#9 phenanthrene

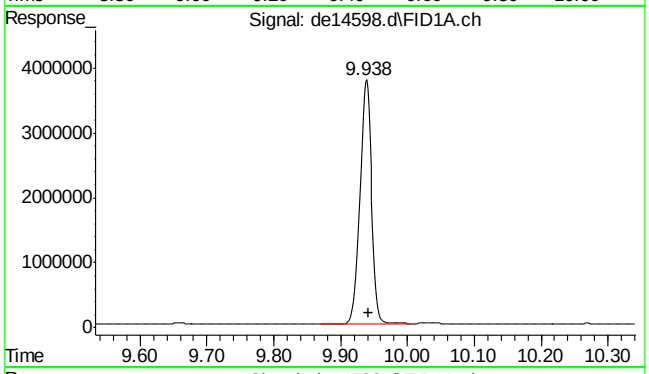
R.T.: 9.302 min
Delta R.T.: -0.005 min
Response: 4559521
Conc: 44.81 µg/ml

SGS ACCUTEST MC46340



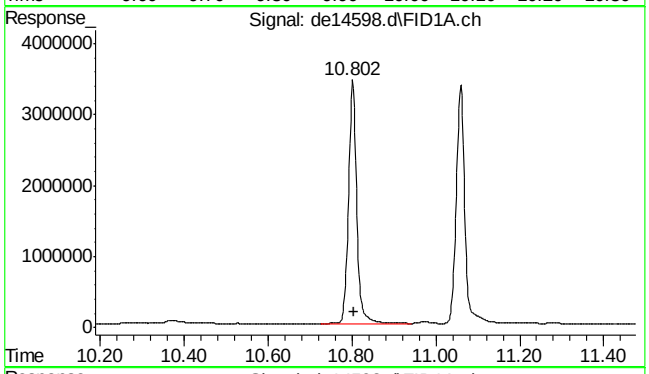
#10 anthracene

R.T.: 9.360 min
Delta R.T.: -0.003 min
Response: 4607258
Conc: 47.49 µg/ml



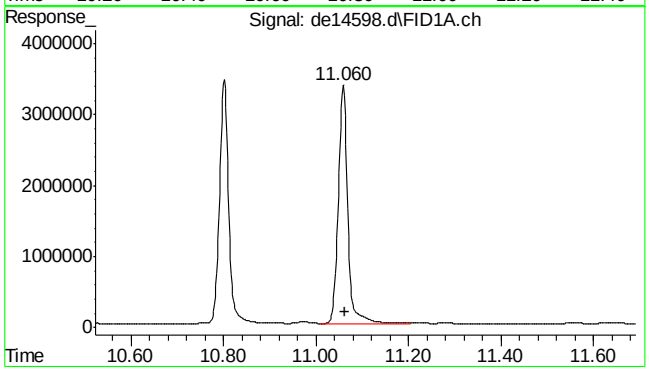
#11 o-terphenyl

R.T.: 9.938 min
Delta R.T.: -0.003 min
Response: 4692396
Conc: 45.81 µg/ml



#12 fluoranthene

R.T.: 10.802 min
Delta R.T.: -0.003 min
Response: 4648776
Conc: 46.52 µg/ml



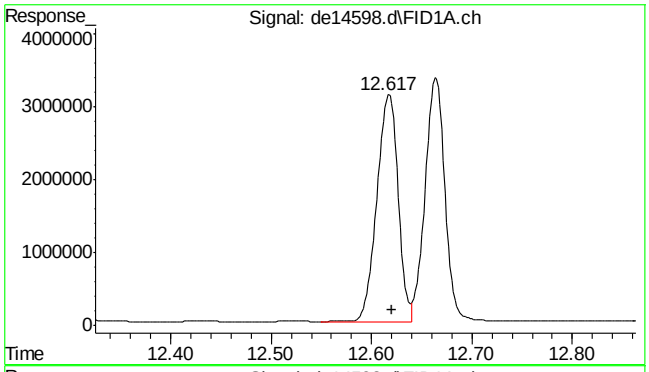
#13 pyrene

R.T.: 11.060 min
Delta R.T.: -0.002 min
Response: 4754541
Conc: 46.86 µg/ml

9.4.10

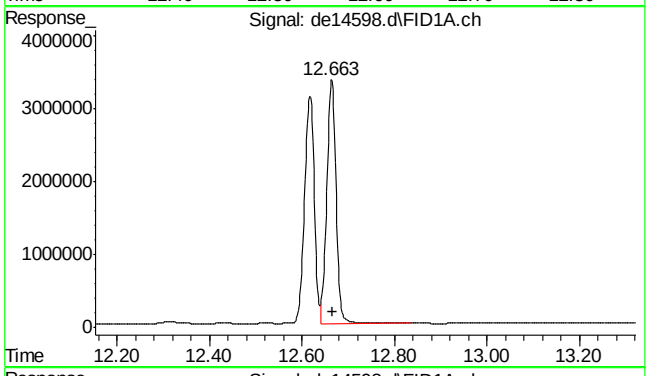
9

SGS ACCUTEST MC46340



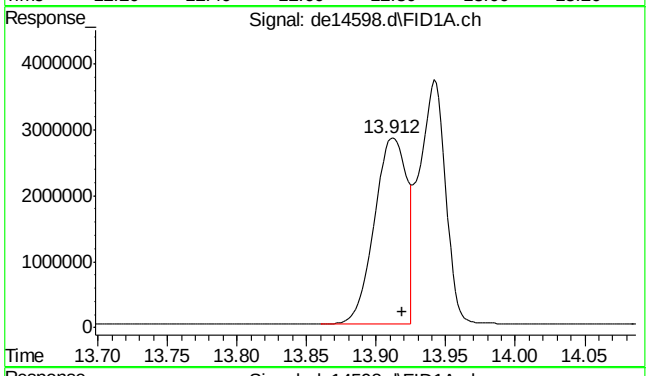
#14 benzo(a)anthracene

R.T.: 12.617 min
Delta R.T.: -0.003 min
Response: 4565013
Conc: 47.22 µg/ml



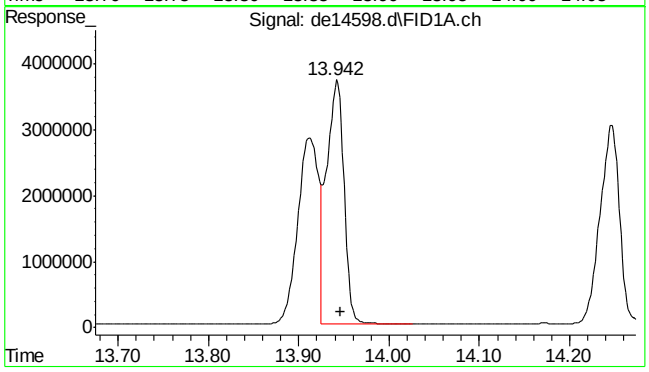
#15 chrysene

R.T.: 12.663 min
Delta R.T.: -0.003 min
Response: 4617082
Conc: 47.43 µg/ml



#16 benzo(B)fluoranthene

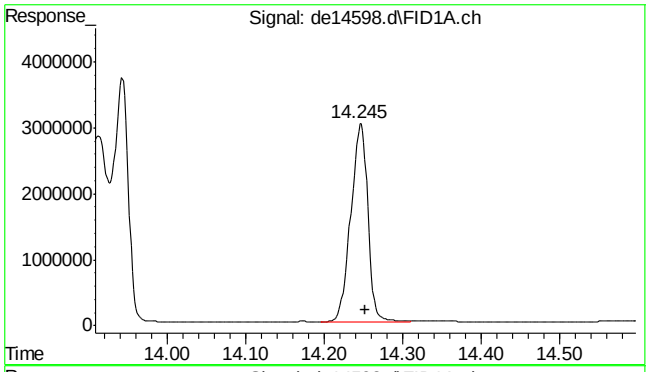
R.T.: 13.912 min
Delta R.T.: -0.007 min
Response: 4619519
Conc: 46.66 µg/ml



#17 benzo(k)fluoranthene

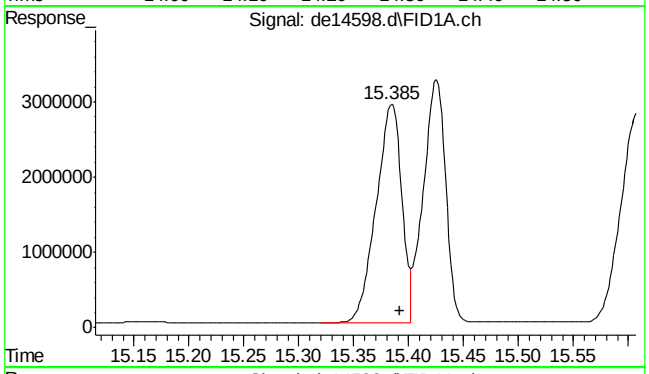
R.T.: 13.942 min
Delta R.T.: -0.005 min
Response: 4796337
Conc: 50.75 µg/ml

SGS ACCUTEST MC46340



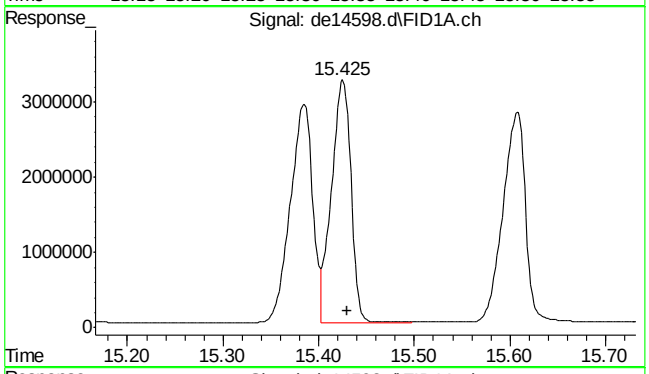
#18 benzo(a)pyrene

R.T.: 14.245 min
Delta R.T.: -0.007 min
Response: 4497711
Conc: 48.66 µg/ml



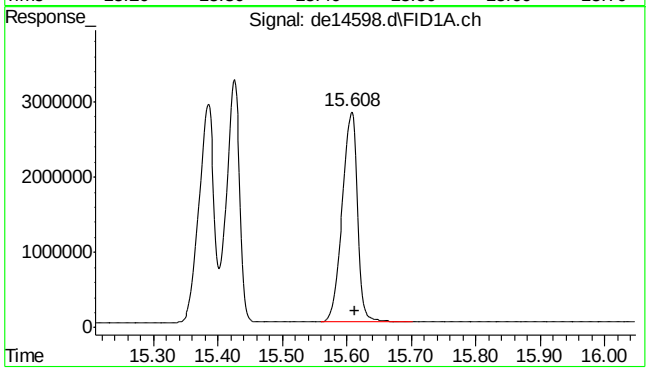
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.385 min
Delta R.T.: -0.007 min
Response: 4709488
Conc: 49.75 µg/ml m



#20 dibenzo(ah)anthracene

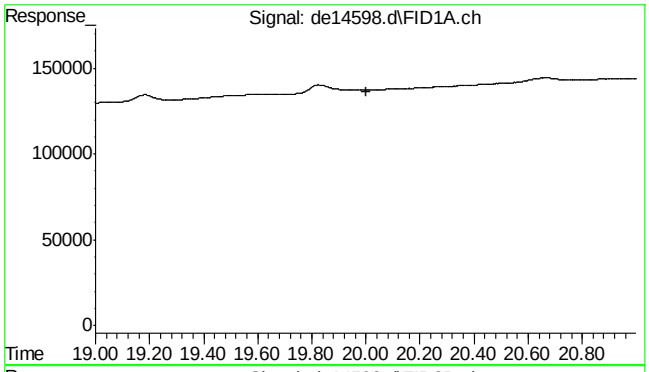
R.T.: 15.425 min
Delta R.T.: -0.005 min
Response: 4555211
Conc: 49.84 µg/ml m



#21 benzo(ghi)perylene

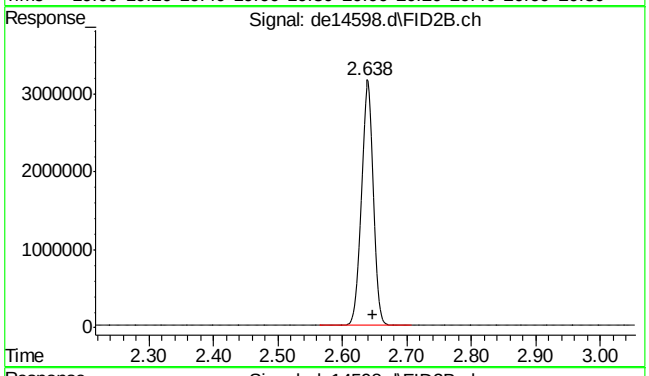
R.T.: 15.608 min
Delta R.T.: -0.005 min
Response: 4557653
Conc: 49.47 µg/ml

SGS ACCUTEST MC46340



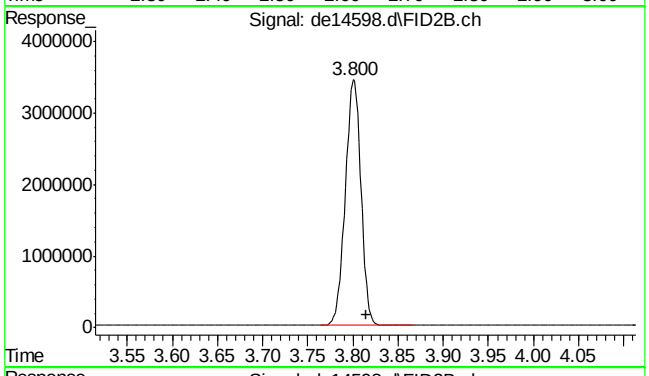
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



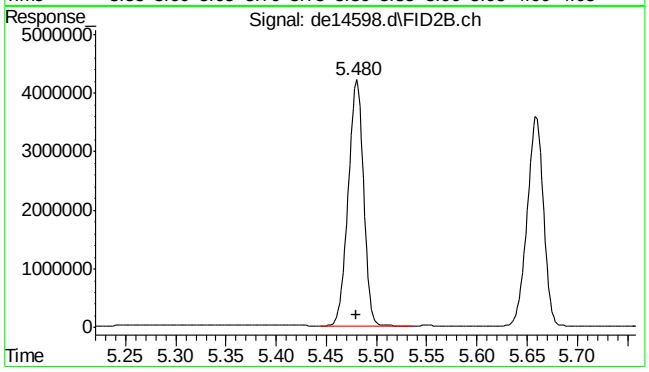
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4118924
Conc: 55.76 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4163699
Conc: 56.36 µg/ml



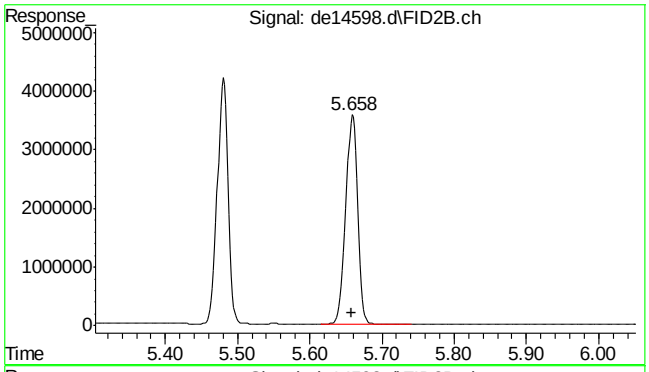
#27 naphthalene #2

R.T.: 5.480 min
Delta R.T.: 0.000 min
Response: 4413647
Conc: 55.26 µg/ml

9.4.10

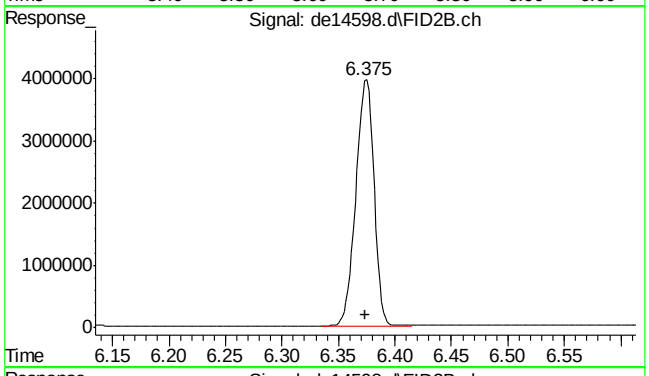
9

SGS ACCUTEST MC46340



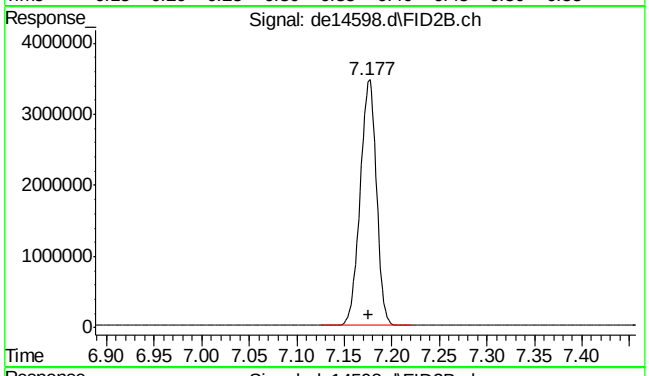
#28 c-12

R.T.: 5.658 min
Delta R.T.: 0.000 min
Response: 4108337
Conc: 55.61 µg/ml



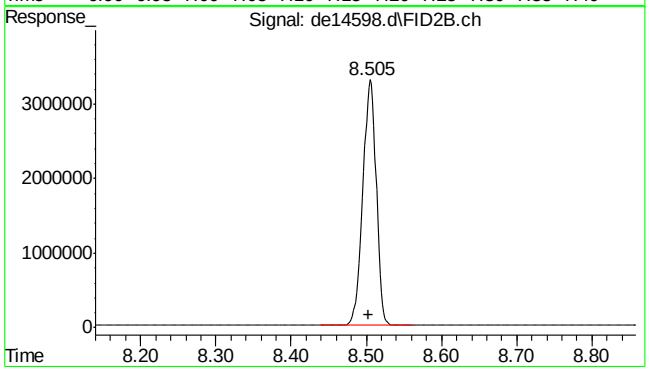
#29 2-methylnaphthalene #2

R.T.: 6.375 min
Delta R.T.: 0.002 min
Response: 4388209
Conc: 54.47 µg/ml



#30 c-14

R.T.: 7.177 min
Delta R.T.: 0.002 min
Response: 4091122
Conc: 55.38 µg/ml



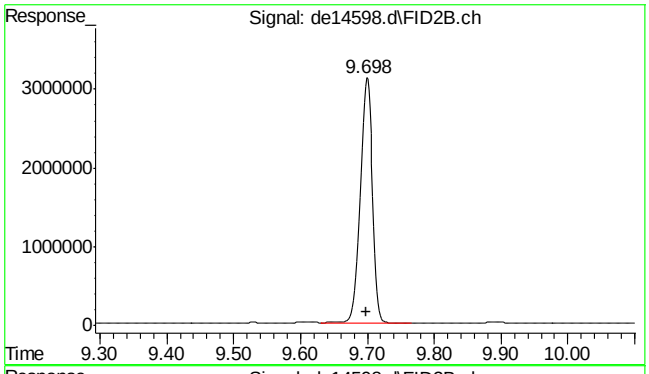
#31 c-16

R.T.: 8.505 min
Delta R.T.: 0.002 min
Response: 4069202
Conc: 55.08 µg/ml

9.4.10

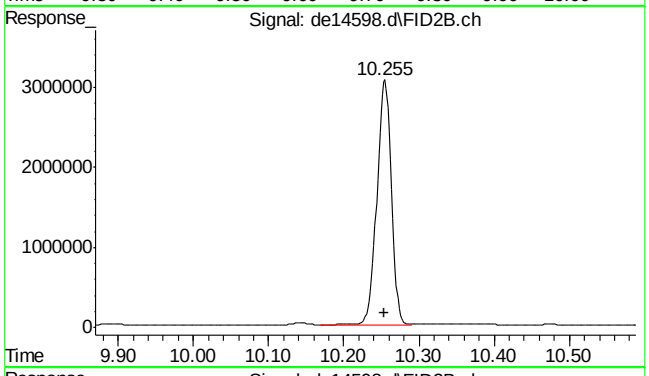
9

SGS ACCUTEST MC46340



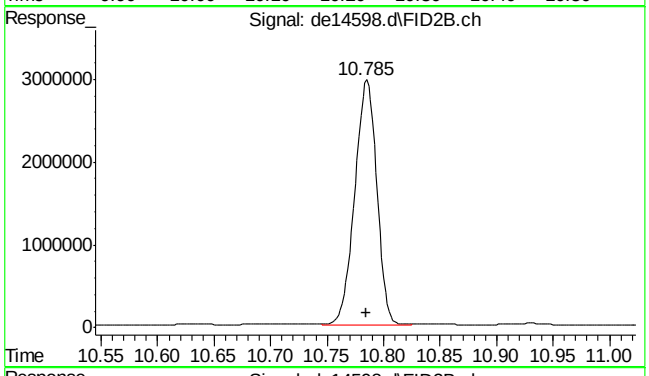
#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 4089450
Conc: 55.36 µg/ml



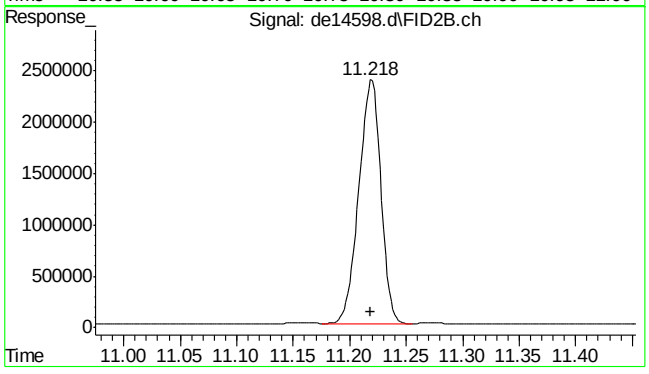
#33 c-19

R.T.: 10.255 min
Delta R.T.: 0.002 min
Response: 4069393
Conc: 60.91 µg/ml



#34 c-20

R.T.: 10.785 min
Delta R.T.: 0.000 min
Response: 3990456
Conc: 59.73 µg/ml



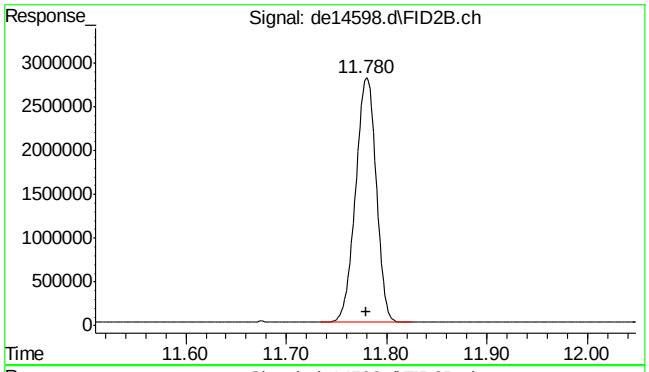
#35 1-chlorooctadecane

R.T.: 11.218 min
Delta R.T.: 0.000 min
Response: 3223721
Conc: 56.98 µg/ml

9.4.10

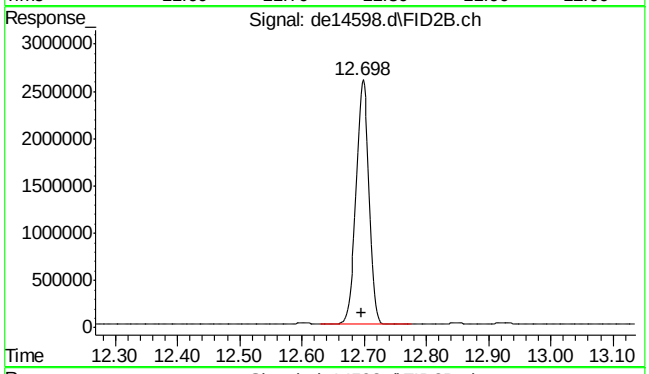
9

SGS ACCUTEST MC46340



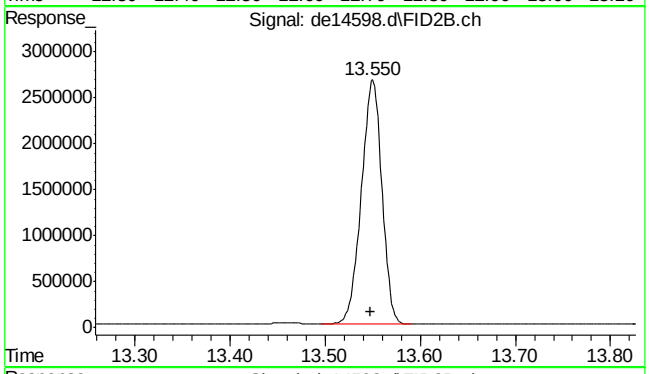
#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 3978288
Conc: 59.55 µg/ml



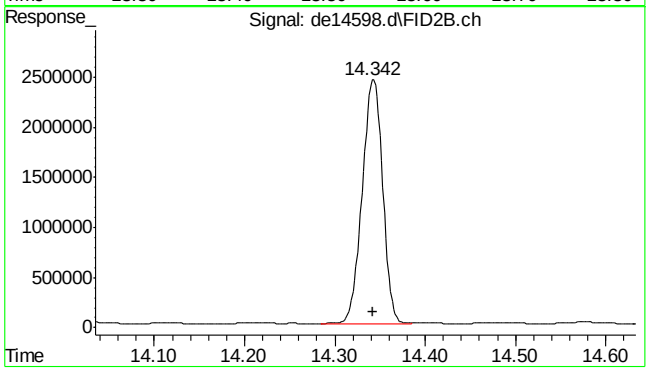
#37 c-24

R.T.: 12.698 min
Delta R.T.: 0.002 min
Response: 3727022
Conc: 55.79 µg/ml



#38 c-26

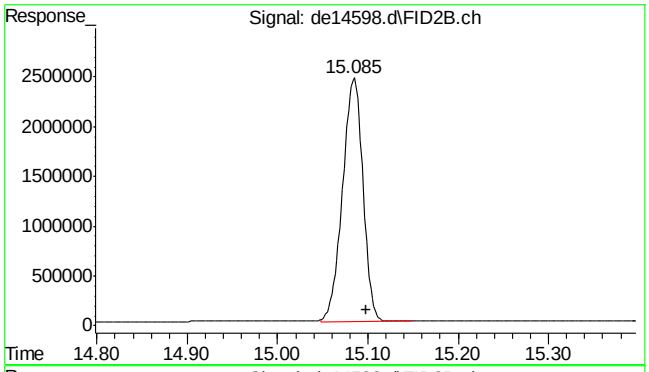
R.T.: 13.550 min
Delta R.T.: 0.002 min
Response: 3971046
Conc: 59.44 µg/ml



#39 c-28

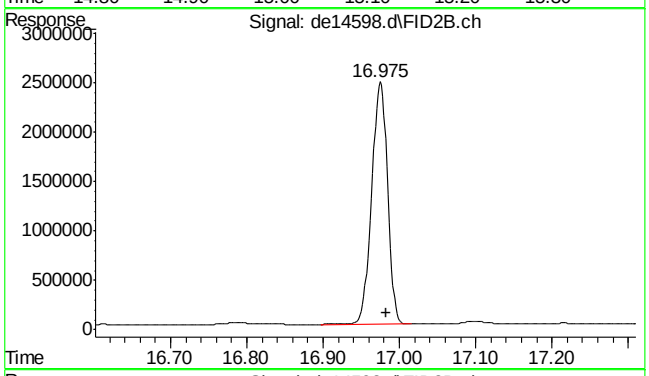
R.T.: 14.342 min
Delta R.T.: 0.000 min
Response: 3840779
Conc: 57.49 µg/ml

SGS ACCUTEST MC46340



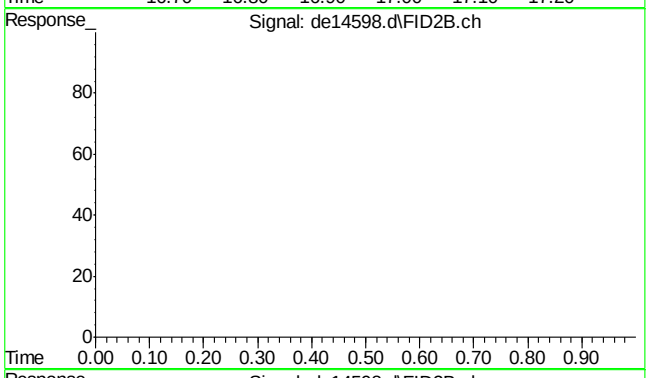
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3865164
Conc: 57.86 µg/ml



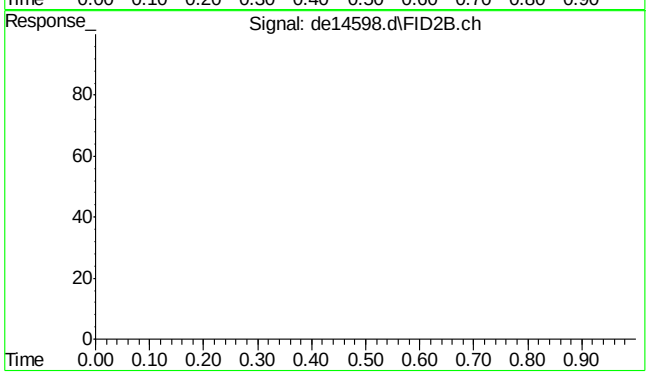
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3543748
Conc: 53.05 µg/ml m



#42 bht

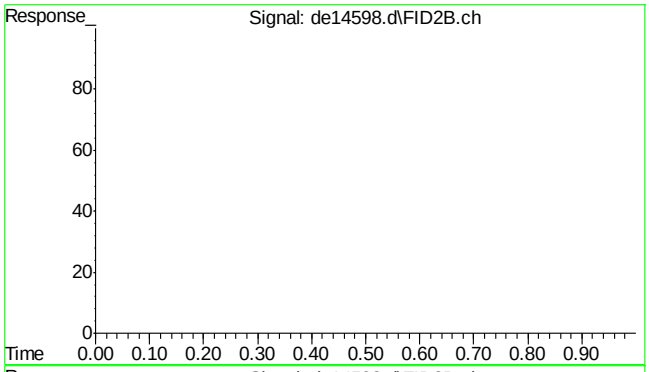
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

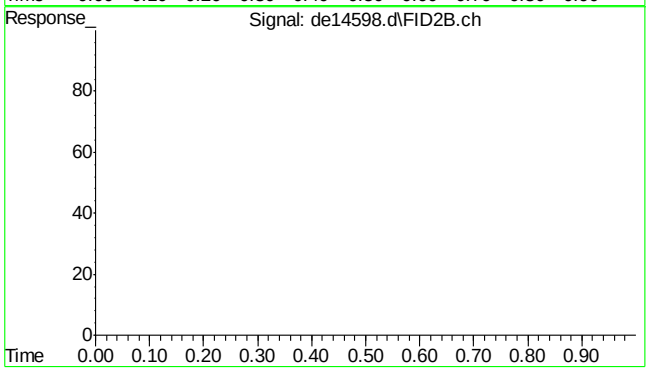
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46340



#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.

9.4.10

9

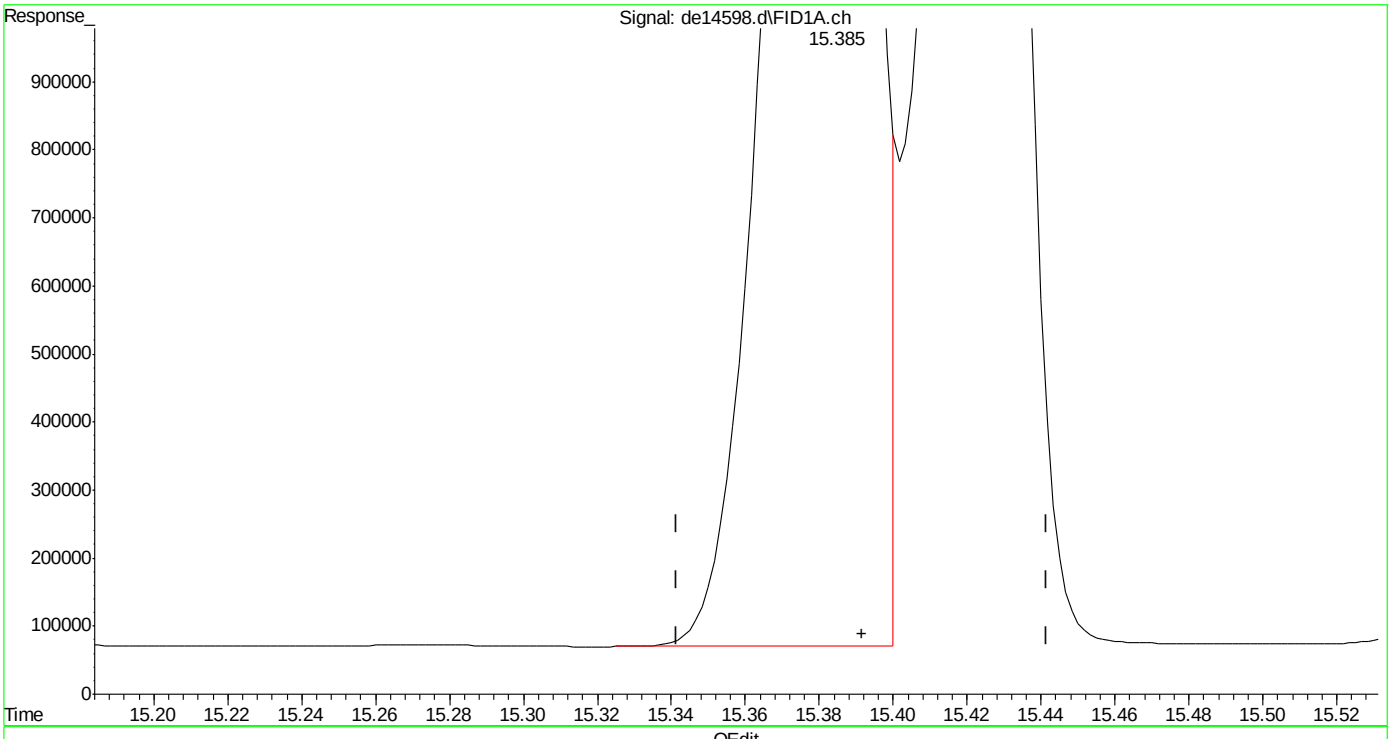
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 7:43 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.385min 48.991 µg/ml
response 4637417

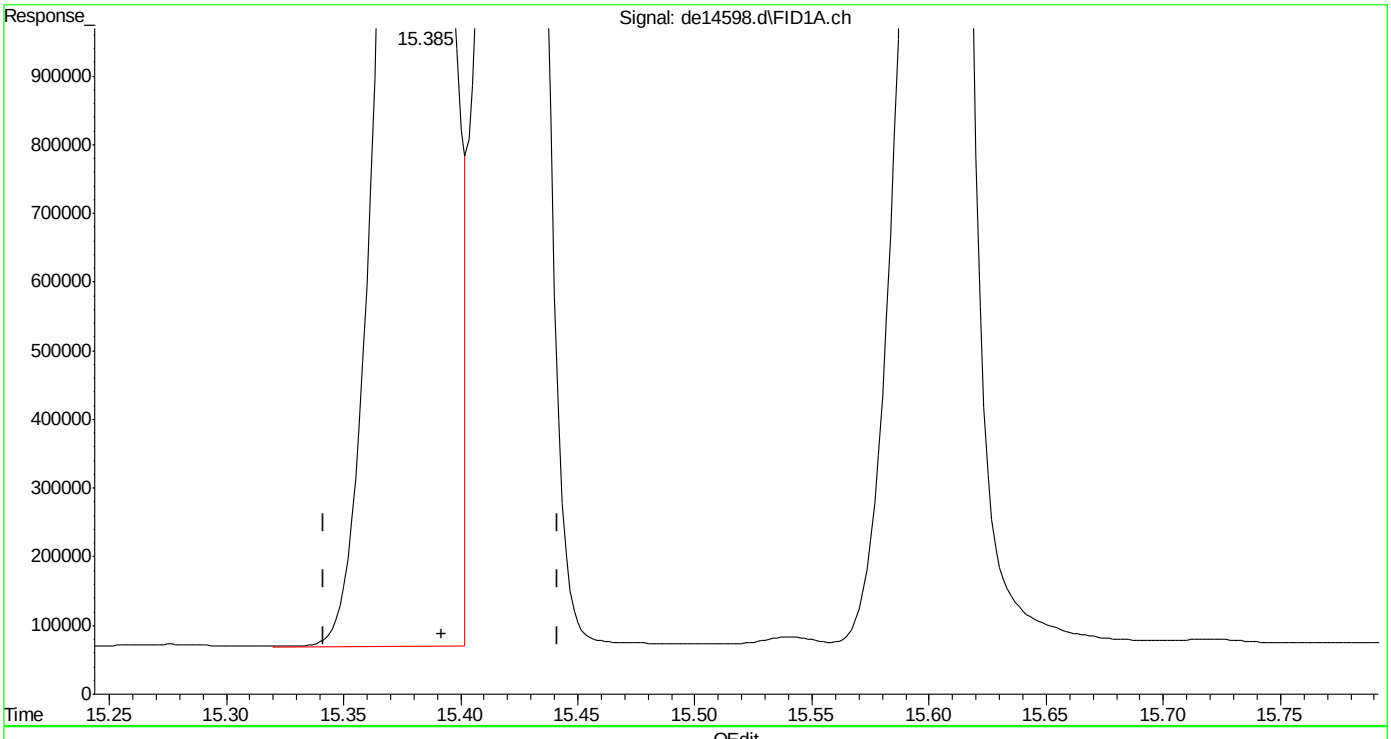
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 7:43 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.385min 49.753 µg/ml m
response 4709488

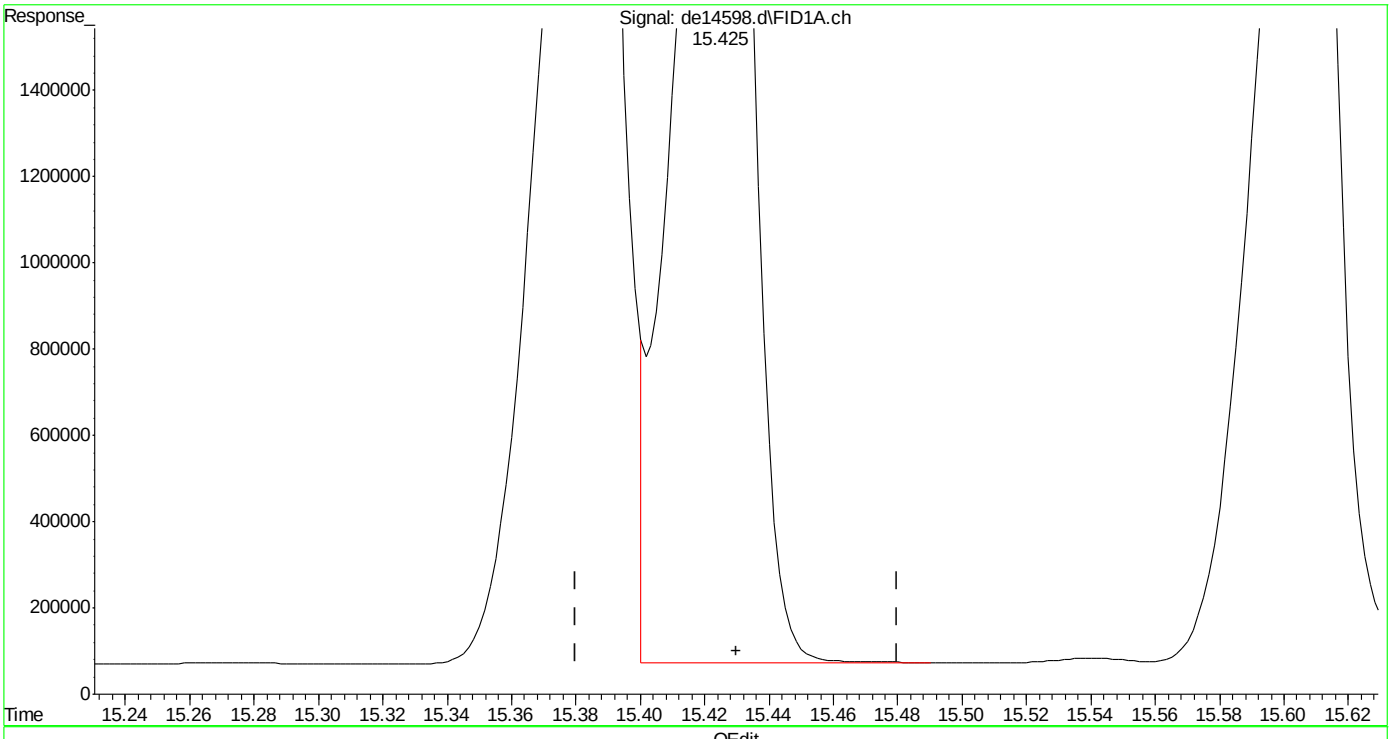
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 7:43 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.425min 50.490 µg/ml
response 4614716

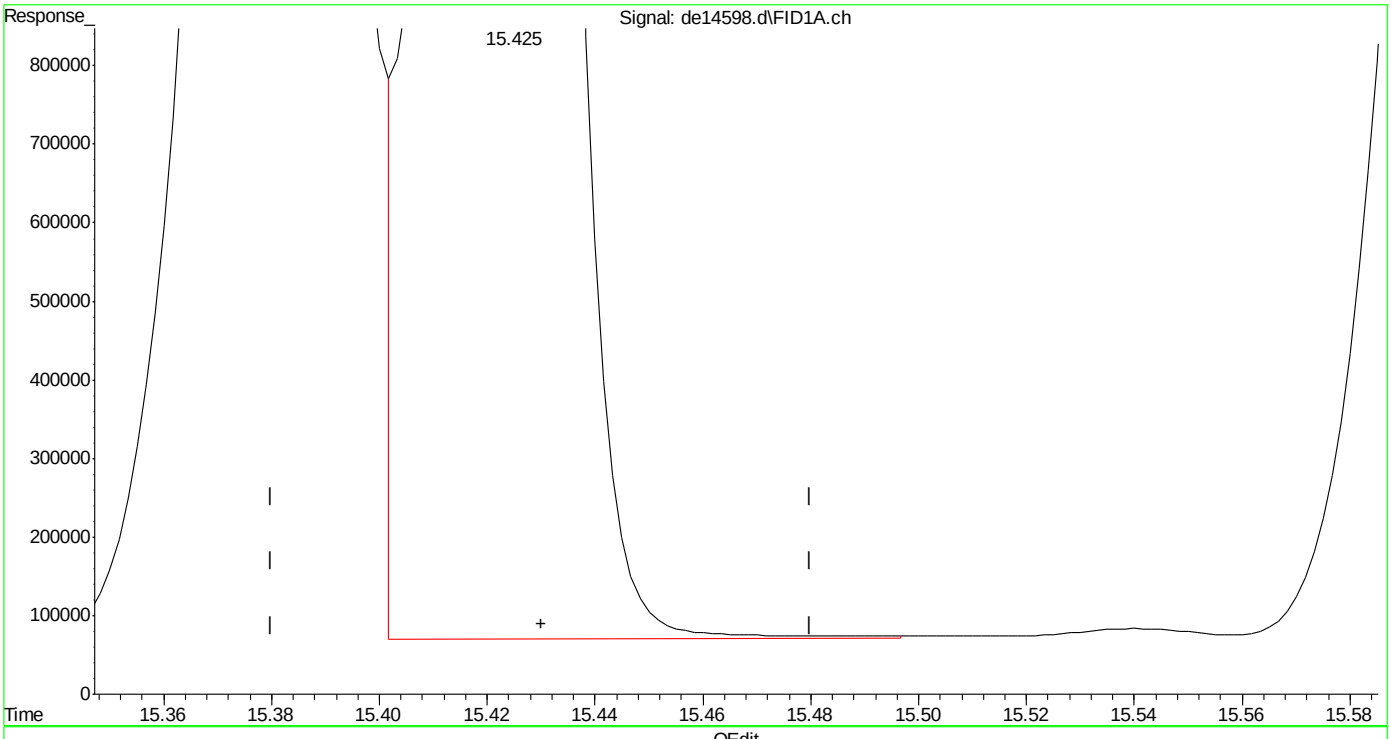
(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:33:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14598.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 15 Jun 2016 7:43 pm
Operator : thomasa
Sample : cc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
15.425min 49.839 µg/ml m
response 4555211

(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:33:17 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/16/16 10:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 Jun 2016 12:23 am
Operator : thomasa
Sample : ecc735-50,gde811
Misc : op47843,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:32:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	6.683	4215568	45.707 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 228.54%#	
6) s 2-bromonaphthalene	7.410	2794609	44.532 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 222.66%#	
11) s o-terphenyl	9.937	4851065	47.361 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 236.80%#	
35) s 1-chlorooctadecane	11.218	3205982	56.668 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 283.34%#	
Target Compounds			
2) naphthalene	5.243	4645534	45.041 µg/ml
3) 2-methylnaphthalene	6.135	4673932	45.607 µg/ml
5) acenaphthylene	7.243	4643110	46.153 µg/ml
7) acenaphthene	7.483	4968653	48.064 µg/ml
8) fluorene	8.125	4767449	46.939 µg/ml
9) phenanthrene	9.300	4727287	46.454 µg/ml
10) anthracene	9.358	4735182	48.812 µg/ml
12) fluoranthene	10.800	4796875	47.997 µg/ml
13) pyrene	11.055	4914640	48.438 µg/ml
14) benzo(a)anthracene	12.615	4675240	48.360 µg/ml
15) chrysene	12.662	4795722	49.267 µg/ml
16) benzo(B)fluoranthene	13.908	4949342	49.992 µg/mlm
17) benzo(k)fluoranthene	13.938	4759967	50.369 µg/mlm
18) benzo(a)pyrene	14.242	4636022	50.154 µg/ml
19) indeno(1,2,3-cd)pyrene	15.383	4850723	51.245 µg/ml
20) dibenzo(ah)anthracene	15.425	4655762	50.939 µg/ml
21) benzo(ghi)perylene	15.605	4688727	50.896 µg/ml
25) h c-9	2.647	4233690	57.311 µg/mlm
26) h c-10	3.815	4281496	57.958 µg/ml
27) naphthalene #2	5.480	4511511	56.484 µg/ml
28) c-12	5.658	4190763	56.730 µg/ml
29) 2-methylnaphthalene #2	6.375	4483056	55.644 µg/ml
30) c-14	7.177	4135231	55.978 µg/ml
31) c-16	8.505	4058219	54.936 µg/ml
32) c-18	9.700	4075547	55.170 µg/ml
33) c-19	10.255	4050130	60.625 µg/ml
34) c-20	10.785	3969383	59.416 µg/ml
36) c-22	11.780	3948086	59.097 µg/ml
37) c-24	12.698	3699797	55.381 µg/ml
38) c-26	13.548	3938101	58.948 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 Jun 2016 12:23 am
Operator : thomasa
Sample : ecc735-50,gde811
Misc : op47843,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:32:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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	14.342	3817947	57.149	µg/ml
40) h	c-30	15.098	3860484	57.786	µg/ml
41) h	c-36	16.983	3529488	52.832	µg/mlm

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

9.4.11

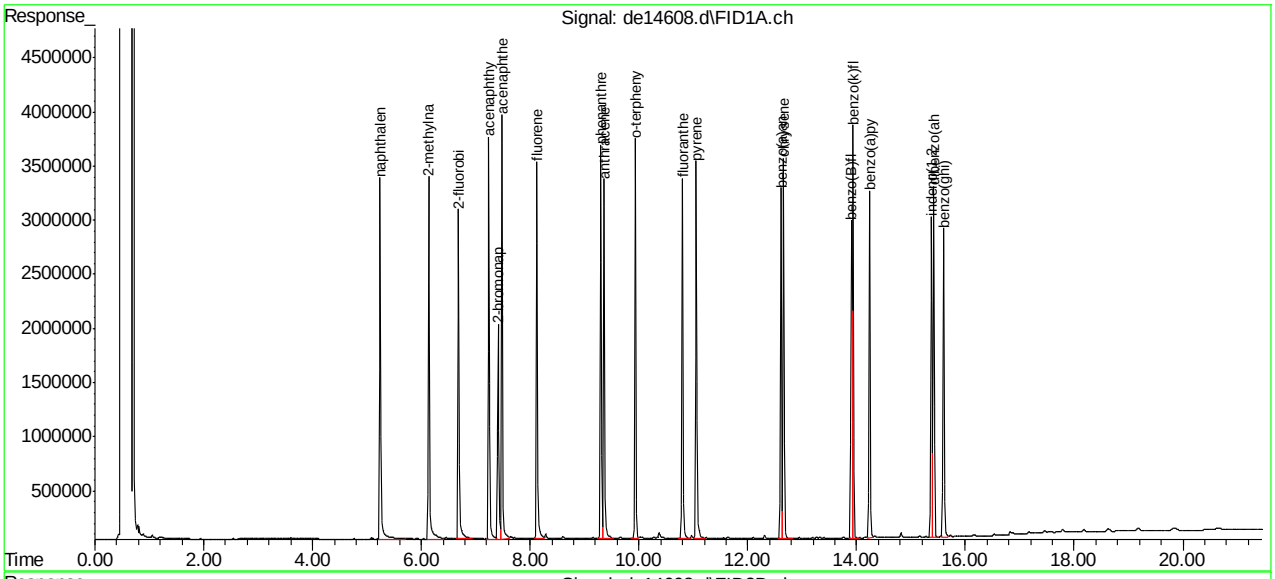
9

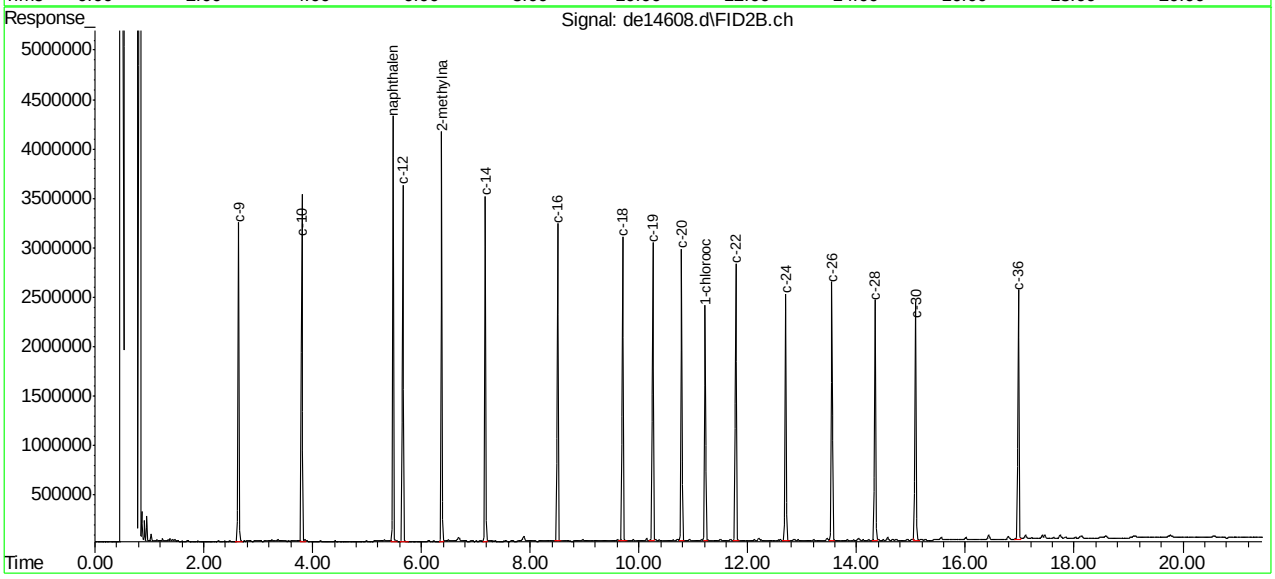
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 Jun 2016 12:23 am
Operator : thomasa
Sample : ecc735-50,gde811
Misc : op47843,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

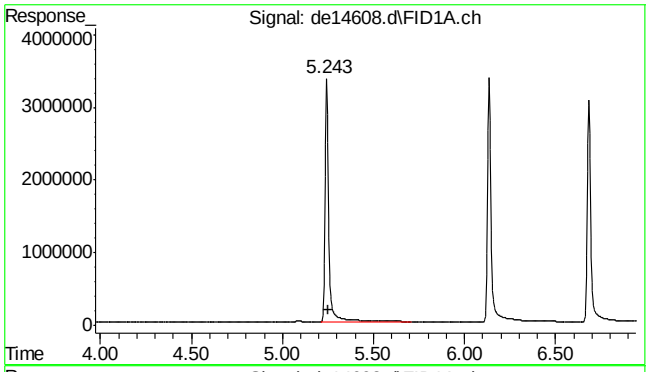
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:32:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 2016
Response via : Initial Calibration
Integrator: RTE

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



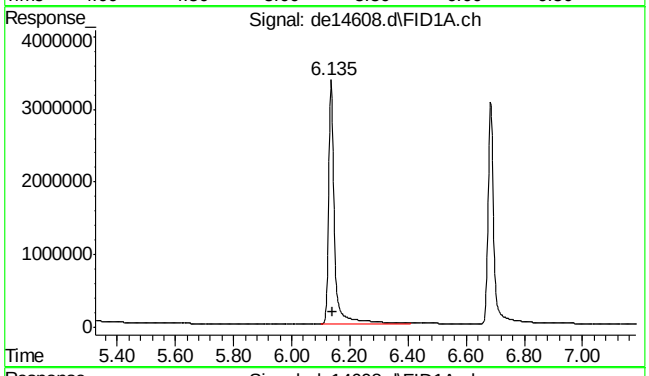


SGS ACCUTEST MC46340



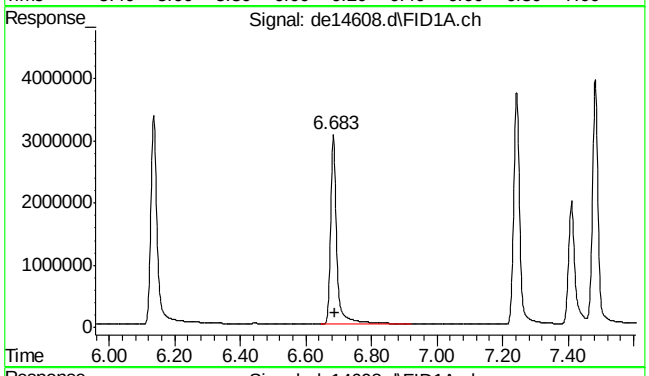
#2 naphthalene

R.T.: 5.243 min
Delta R.T.: -0.005 min
Response: 4645534
Conc: 45.04 µg/ml



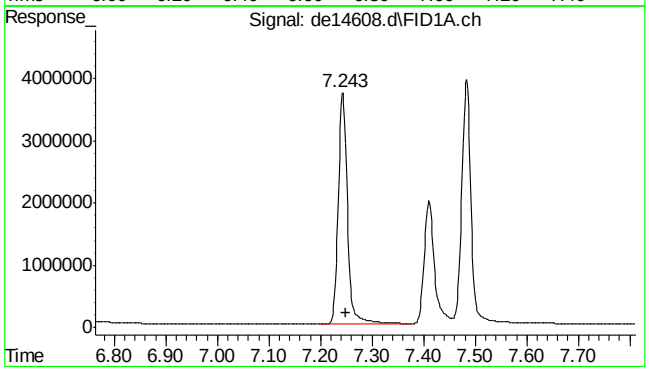
#3 2-methylnaphthalene

R.T.: 6.135 min
Delta R.T.: -0.007 min
Response: 4673932
Conc: 45.61 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.683 min
Delta R.T.: -0.005 min
Response: 4215568
Conc: 45.71 µg/ml



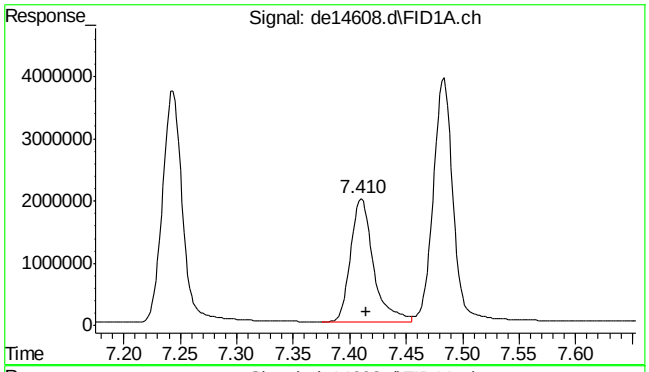
#5 acenaphthylene

R.T.: 7.243 min
Delta R.T.: -0.007 min
Response: 4643110
Conc: 46.15 µg/ml

9.4.11

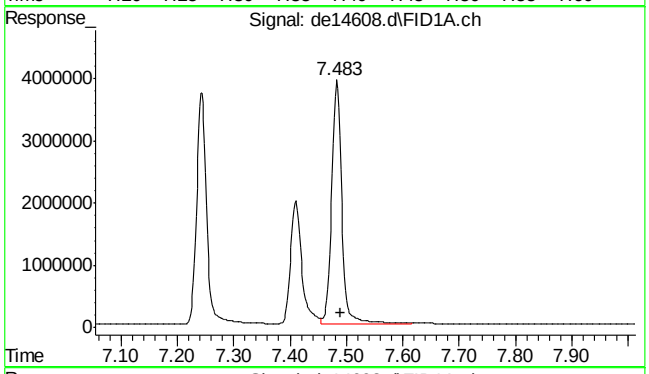
9

SGS ACCUTEST MC46340



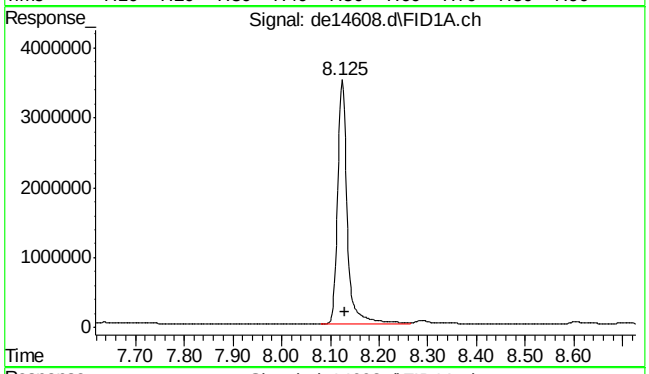
#6 2-bromonaphthalene

R.T.: 7.410 min
Delta R.T.: -0.005 min
Response: 2794609
Conc: 44.53 µg/ml



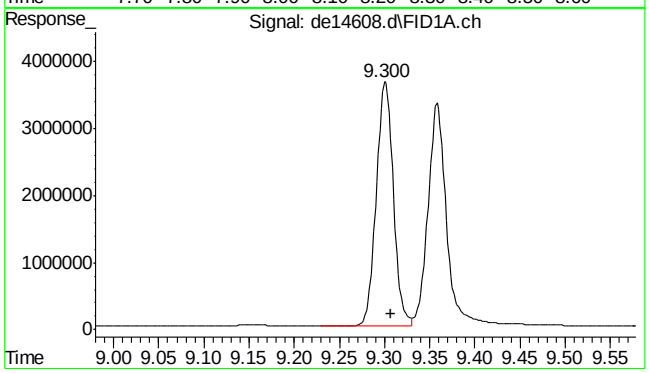
#7 acenaphthene

R.T.: 7.483 min
Delta R.T.: -0.007 min
Response: 4968653
Conc: 48.06 µg/ml



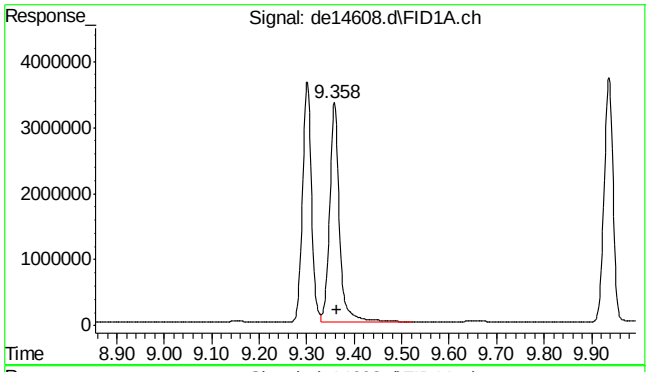
#8 fluorene

R.T.: 8.125 min
Delta R.T.: -0.005 min
Response: 4767449
Conc: 46.94 µg/ml



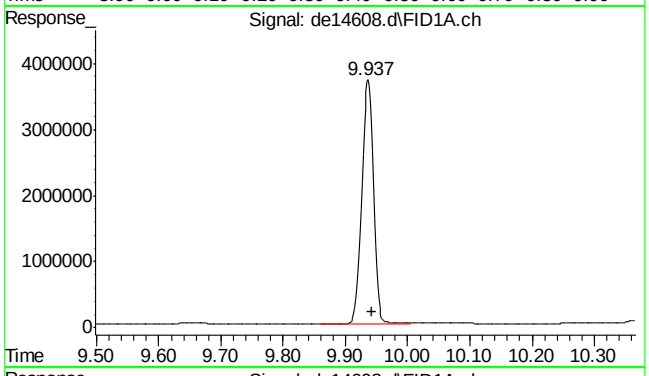
#9 phenanthrene

R.T.: 9.300 min
Delta R.T.: -0.007 min
Response: 4727287
Conc: 46.45 µg/ml



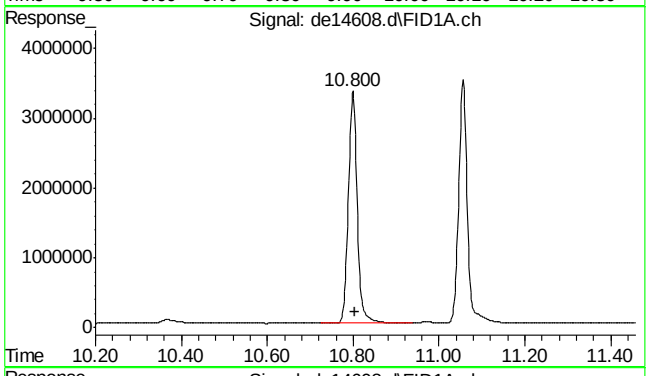
#10 anthracene

R.T.: 9.358 min
Delta R.T.: -0.005 min
Response: 4735182
Conc: 48.81 µg/ml



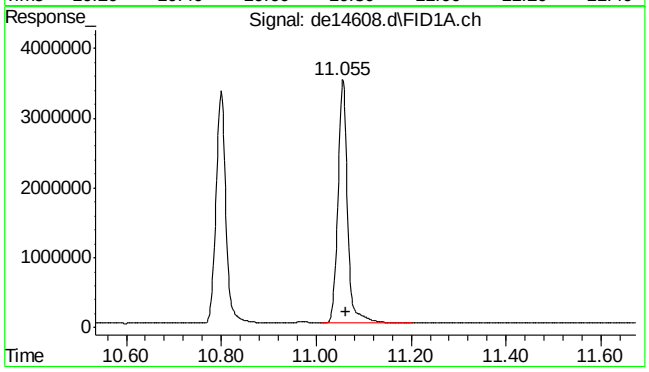
#11 o-terphenyl

R.T.: 9.937 min
Delta R.T.: -0.005 min
Response: 4851065
Conc: 47.36 µg/ml



#12 fluoranthene

R.T.: 10.800 min
Delta R.T.: -0.005 min
Response: 4796875
Conc: 48.00 µg/ml



#13 pyrene

R.T.: 11.055 min
Delta R.T.: -0.007 min
Response: 4914640
Conc: 48.44 µg/ml

9.4.11

9

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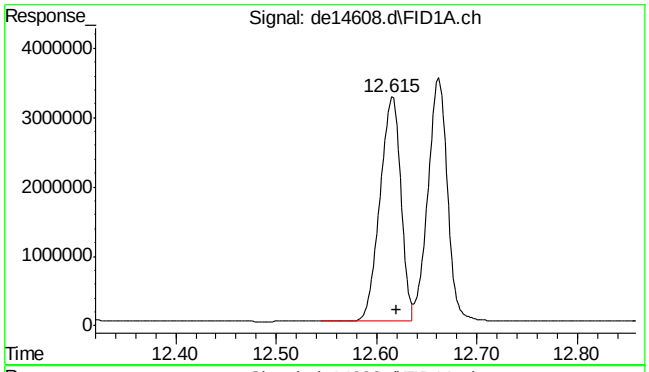
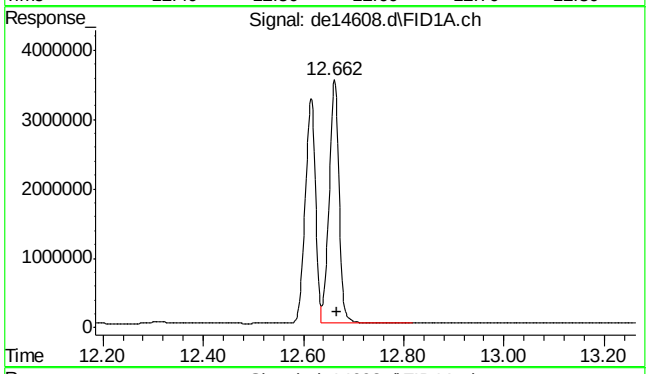


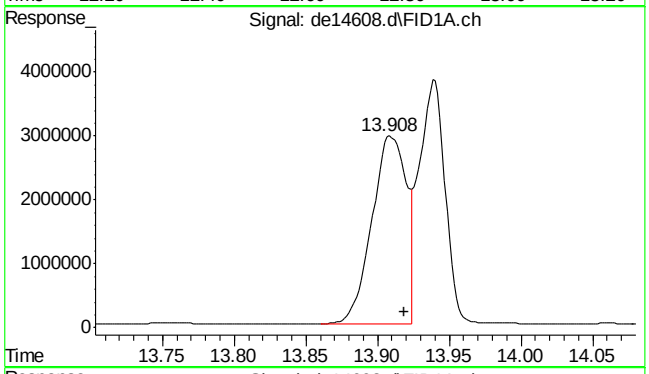
#14 benzo(a)anthracene

R.T.: 12.615 min
Delta R.T.: -0.005 min
Response: 4675240
Conc: 48.36 µg/ml



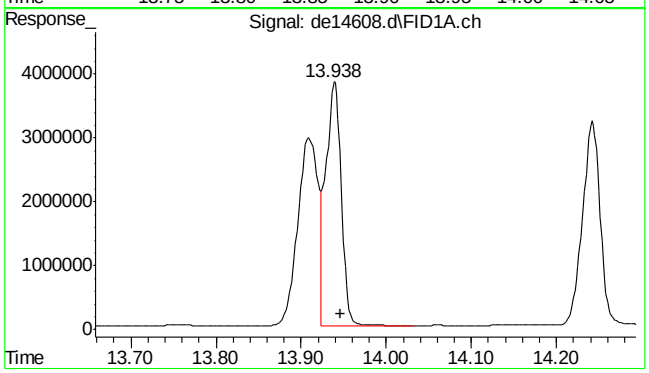
#15 chrysene

R.T.: 12.662 min
Delta R.T.: -0.005 min
Response: 4795722
Conc: 49.27 µg/ml



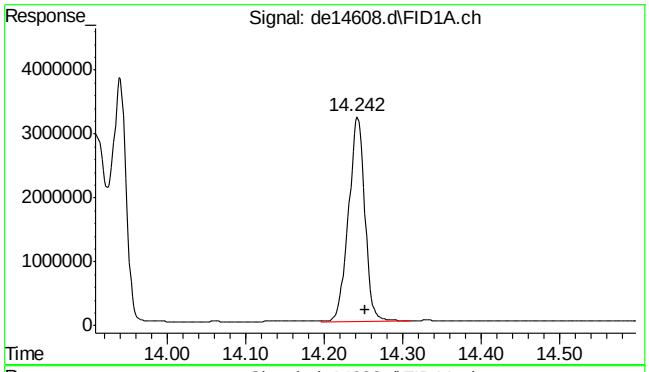
#16 benzo(B)fluoranthene

R.T.: 13.908 min
Delta R.T.: -0.010 min
Response: 4949342
Conc: 49.99 µg/ml m



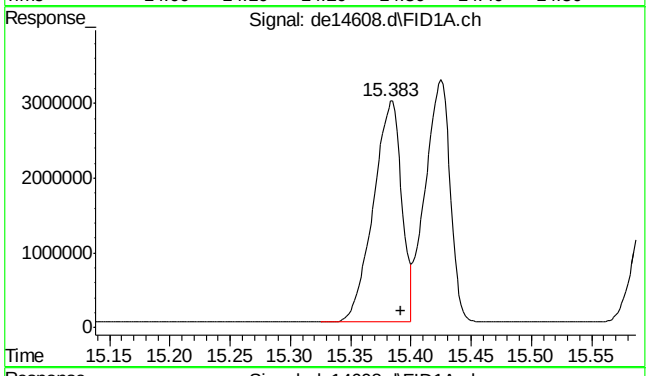
#17 benzo(k)fluoranthene

R.T.: 13.938 min
Delta R.T.: -0.008 min
Response: 4759967
Conc: 50.37 µg/ml m



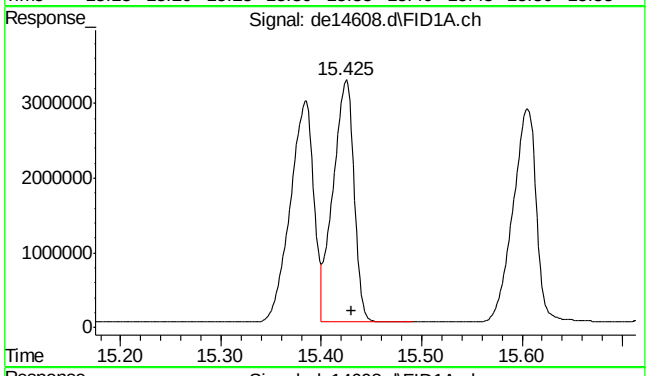
#18 benzo(a)pyrene

R.T.: 14.242 min
Delta R.T.: -0.010 min
Response: 4636022
Conc: 50.15 µg/ml



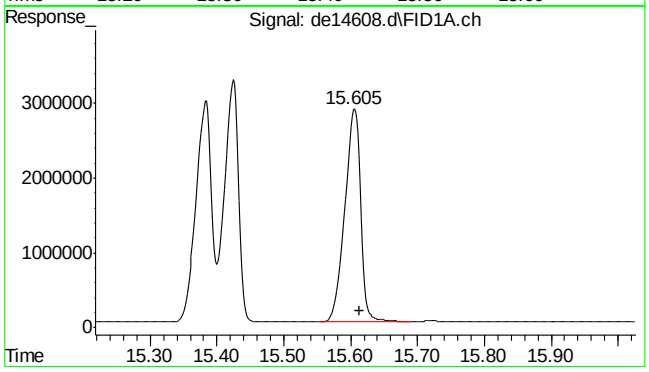
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.383 min
Delta R.T.: -0.008 min
Response: 4850723
Conc: 51.24 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.425 min
Delta R.T.: -0.005 min
Response: 4655762
Conc: 50.94 µg/ml



#21 benzo(ghi)perylene

R.T.: 15.605 min
Delta R.T.: -0.008 min
Response: 4688727
Conc: 50.90 µg/ml

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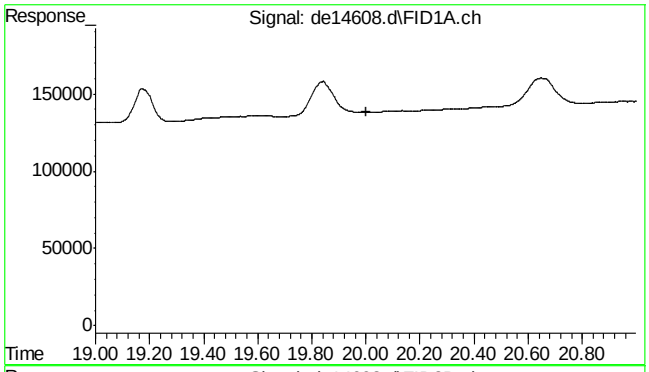
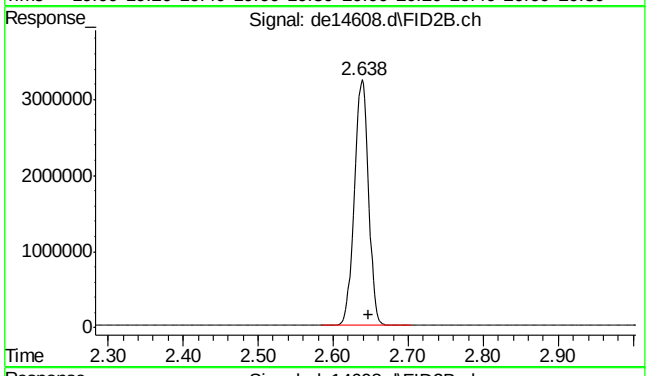


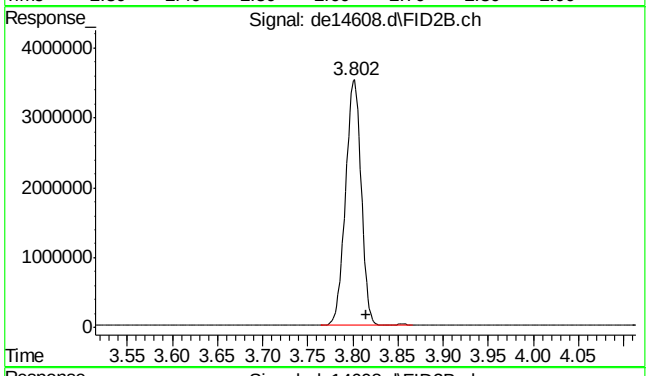
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



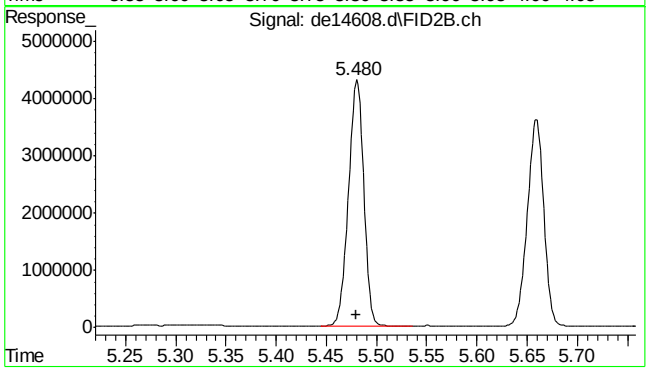
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4233690
Conc: 57.31 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4281496
Conc: 57.96 µg/ml



#27 naphthalene #2

R.T.: 5.480 min
Delta R.T.: 0.000 min
Response: 4511511
Conc: 56.48 µg/ml

9.4.11

9

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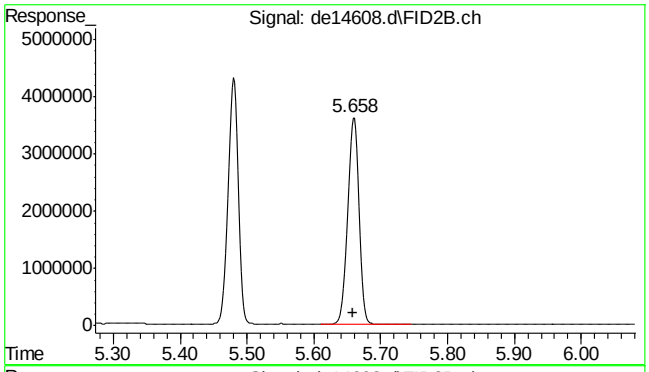
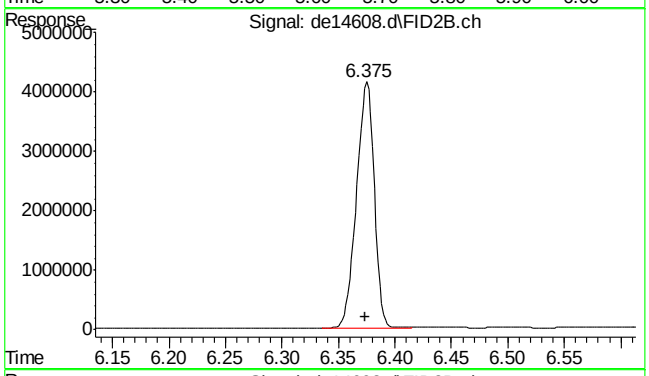


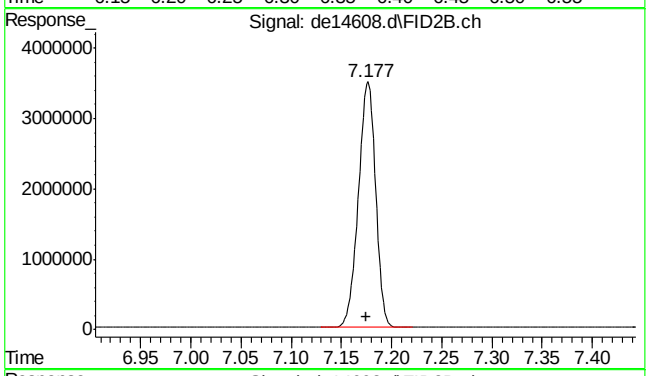
#28 c-12

R.T.: 5.658 min
Delta R.T.: 0.000 min
Response: 4190763
Conc: 56.73 µg/ml



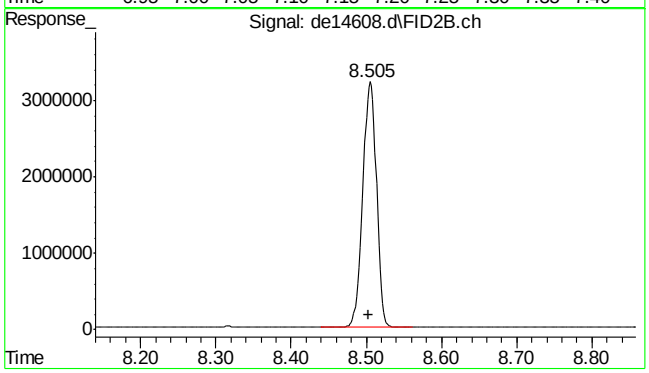
#29 2-methylnaphthalene #2

R.T.: 6.375 min
Delta R.T.: 0.002 min
Response: 4483056
Conc: 55.64 µg/ml



#30 c-14

R.T.: 7.177 min
Delta R.T.: 0.002 min
Response: 4135231
Conc: 55.98 µg/ml



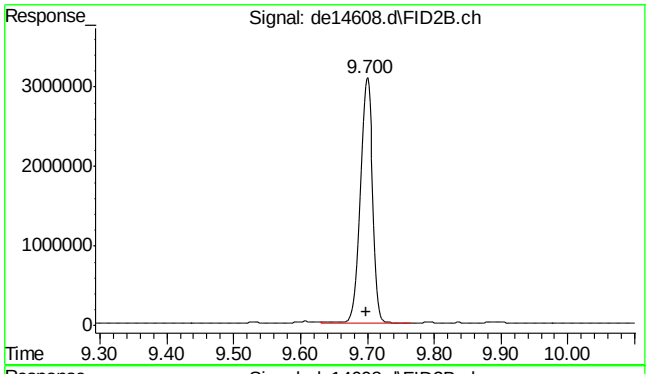
#31 c-16

R.T.: 8.505 min
Delta R.T.: 0.002 min
Response: 4058219
Conc: 54.94 µg/ml

9.4.11

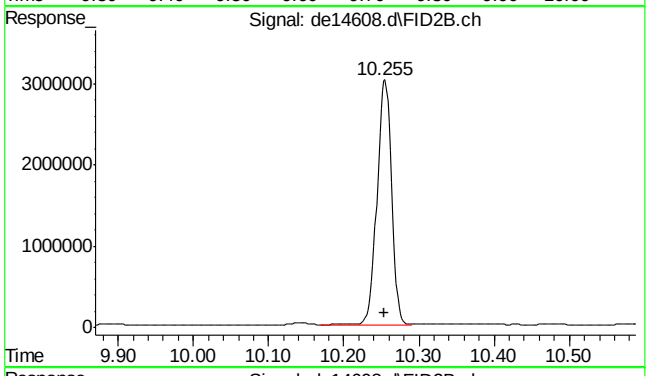
9

SGS ACCUTEST MC46340



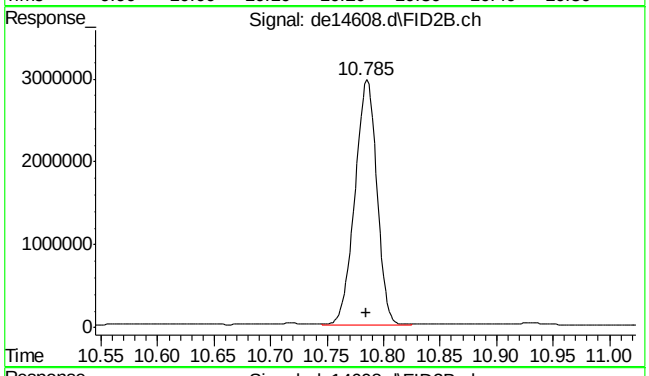
#32 c-18

R.T.: 9.700 min
Delta R.T.: 0.002 min
Response: 4075547
Conc: 55.17 µg/ml



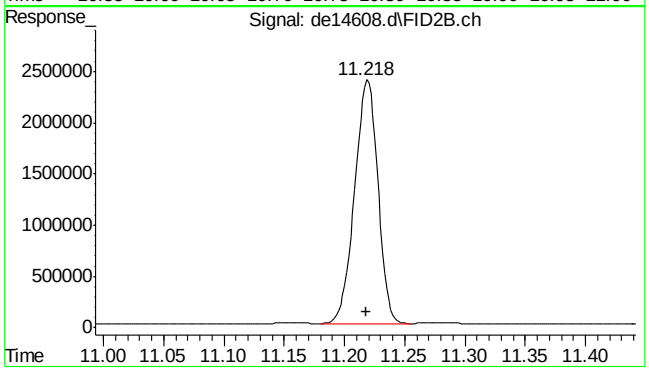
#33 c-19

R.T.: 10.255 min
Delta R.T.: 0.002 min
Response: 4050130
Conc: 60.62 µg/ml



#34 c-20

R.T.: 10.785 min
Delta R.T.: 0.000 min
Response: 3969383
Conc: 59.42 µg/ml



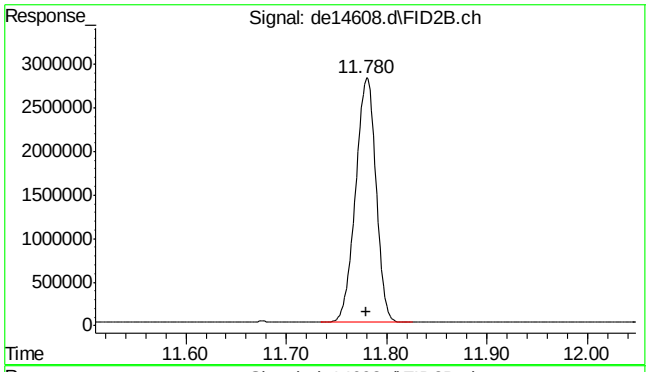
#35 1-chlorooctadecane

R.T.: 11.218 min
Delta R.T.: 0.000 min
Response: 3205982
Conc: 56.67 µg/ml

9.4.11

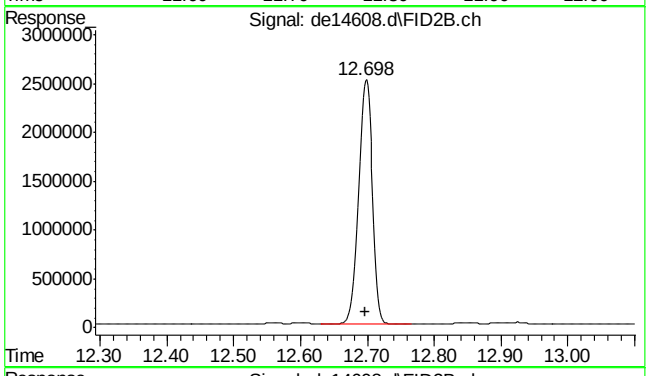
9

SGS ACCUTEST MC46340



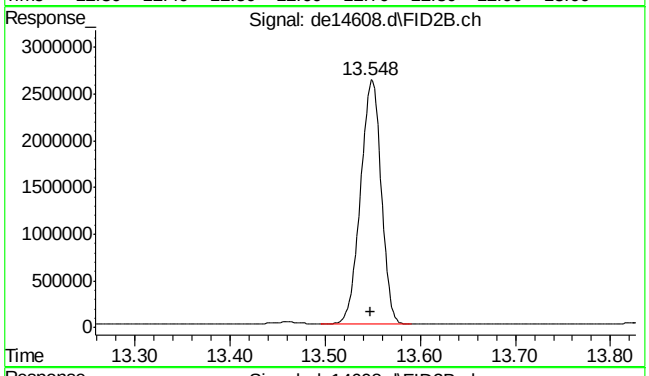
#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 3948086
Conc: 59.10 µg/ml



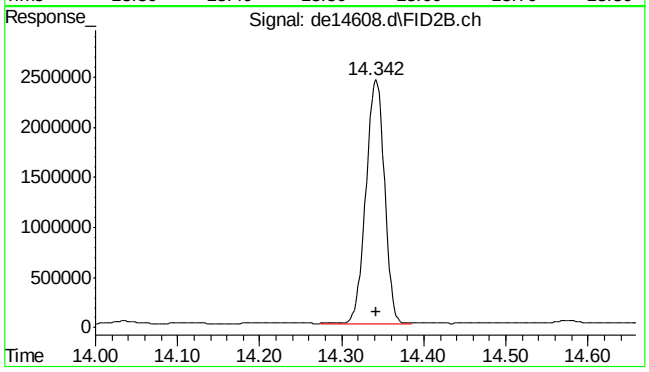
#37 c-24

R.T.: 12.698 min
Delta R.T.: 0.002 min
Response: 3699797
Conc: 55.38 µg/ml



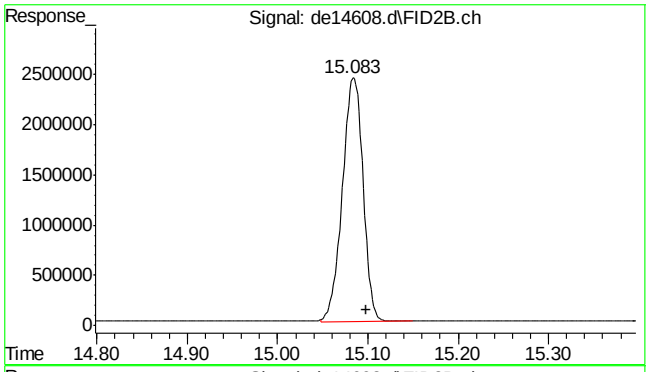
#38 c-26

R.T.: 13.548 min
Delta R.T.: 0.000 min
Response: 3938101
Conc: 58.95 µg/ml



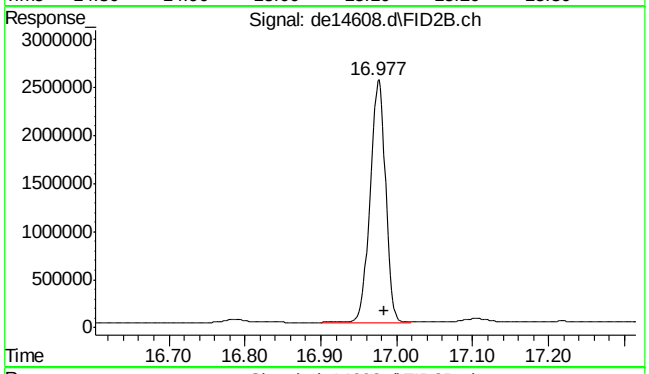
#39 c-28

R.T.: 14.342 min
Delta R.T.: 0.000 min
Response: 3817947
Conc: 57.15 µg/ml



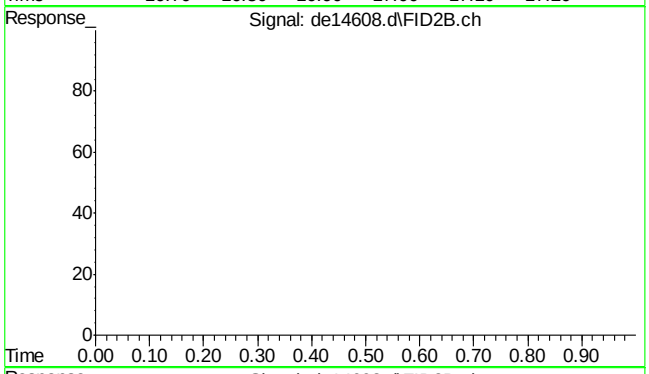
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3860484
Conc: 57.79 µg/ml



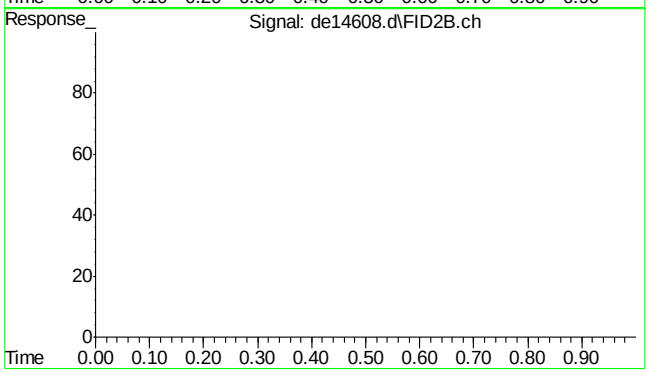
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3529488
Conc: 52.83 µg/ml m



#42 bht

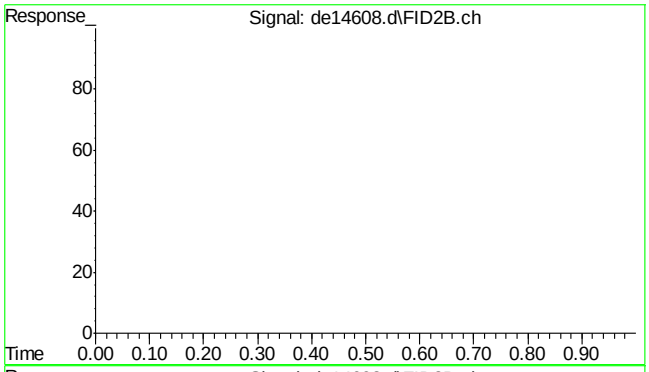
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

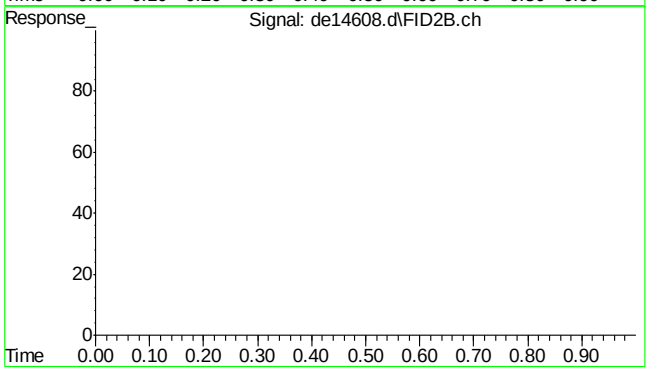
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46340



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

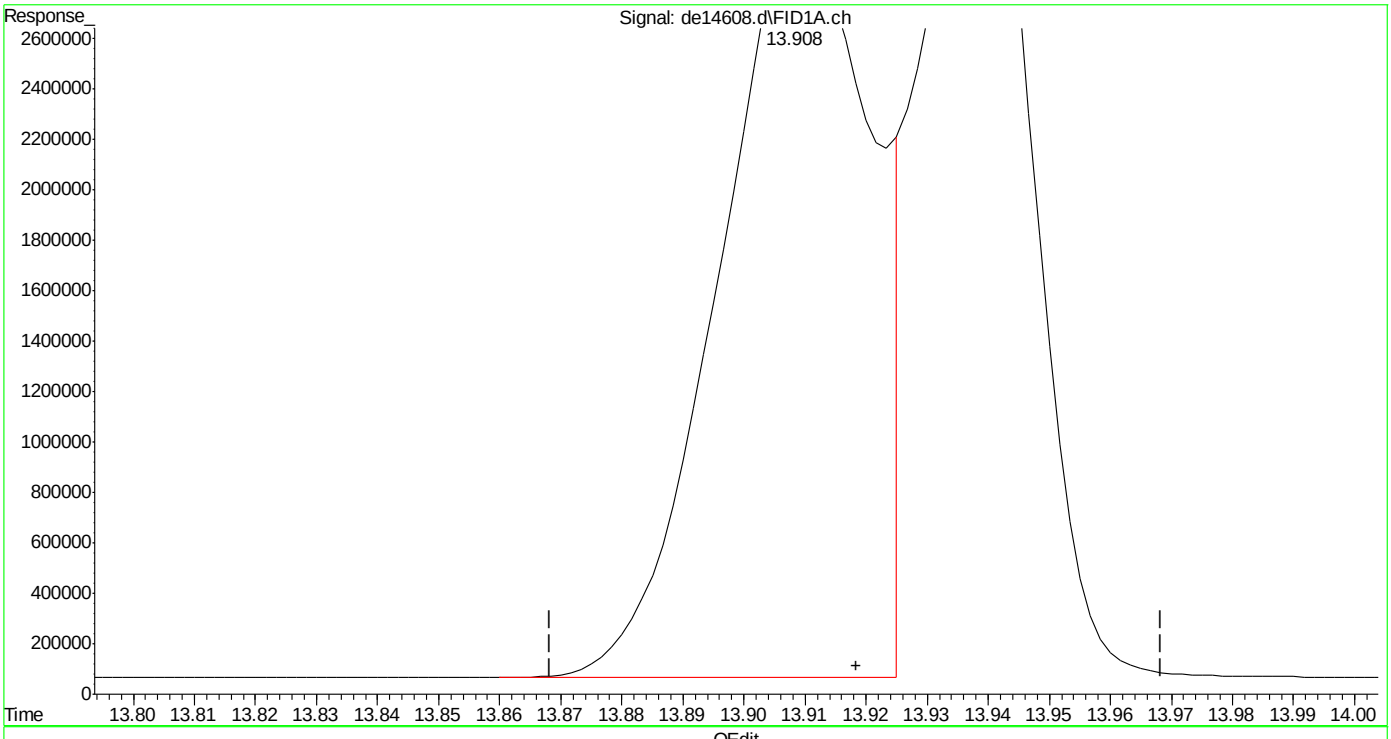
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 Jun 2016 12:23 am
Operator : thomasa
Sample : ecc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.908min 52.134 µg/ml
response 5161377

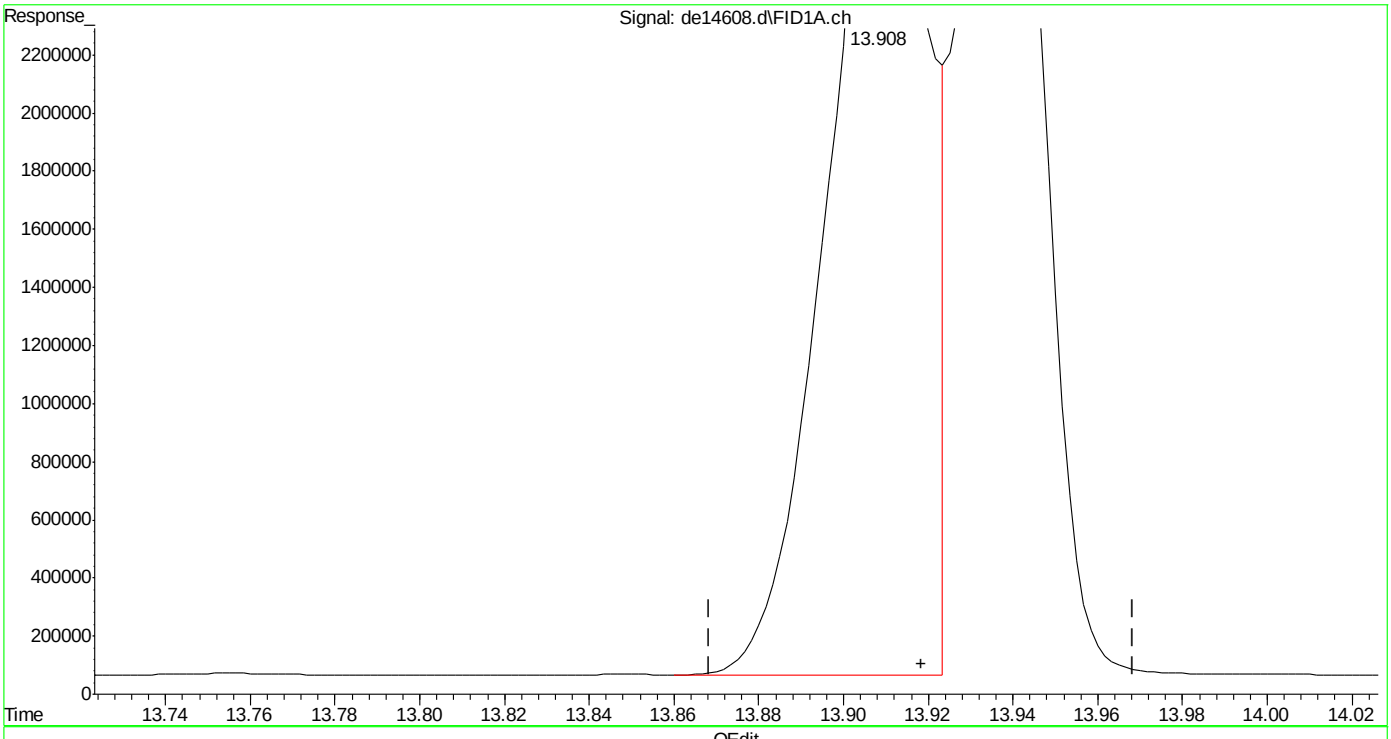
(+) = Expected Retention Time
EPH160615W.M Thu Jun 16 07:31:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 Jun 2016 12:23 am
Operator : thomasa
Sample : ecc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.908min 49.992 µg/ml m
response 4949342

(+) = Expected Retention Time

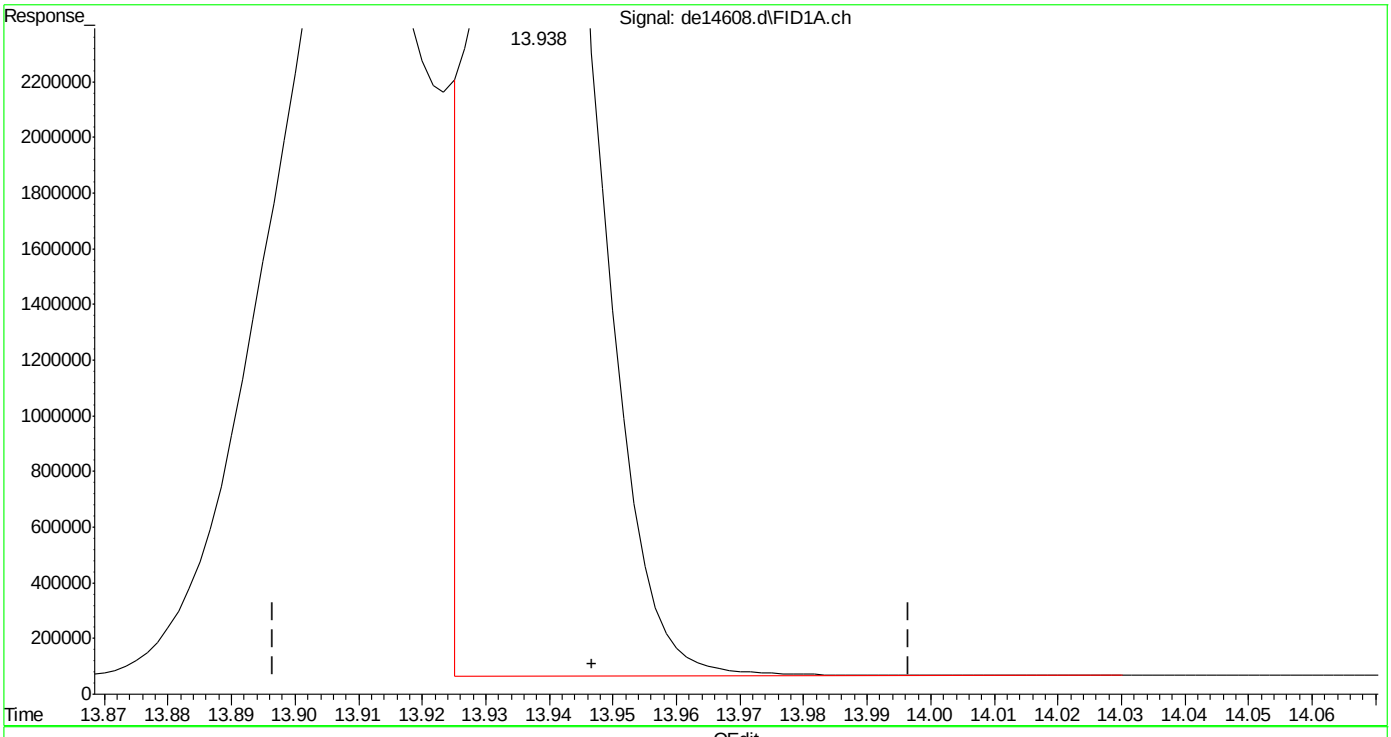
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 Jun 2016 12:23 am
Operator : thomasa
Sample : ecc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.938min 48.011 µg/ml
response 4537165

(+) = Expected Retention Time

EPH160615W.M Thu Jun 16 07:31:29 2016

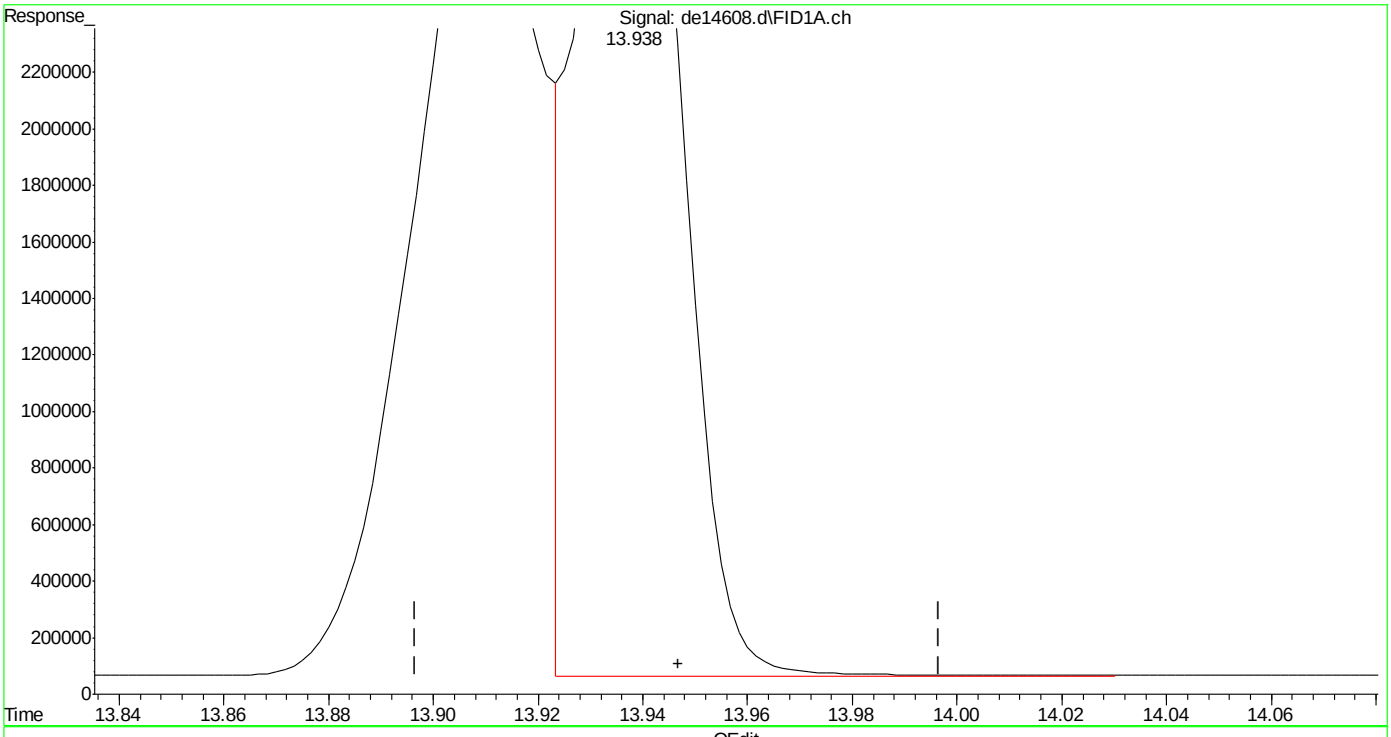
SGS ACCUTEST MC46340

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160615EPH\
Data File : de14608.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 Jun 2016 12:23 am
Operator : thomasa
Sample : ecc735-50,gde811
Misc : op47681,gde811,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 16 07:25:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160615W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 15 14:35:48 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
13.938min 50.369 µg/ml m
response 4759967

(+) = Expected Retention Time

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.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 6.15.16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc
6518062	Alt CCV	50 ug/ml
↓ 055	Ave CCV	50 ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:

Sequence File: 160615.S

Quantitation Methods: EPH160615W.MA

Instrument Run Batches: GDE 811

Data Acquisition Methods: EPH OUM W Inj. Vol: 1 ul

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	DE14587	CC735-50	N/A	MA EPH	N/A	N/A	OK
1/2	88	MC46343-3A	OP47841		W		NONREAL - NOT REPORTED
3/4	89	OP47853-BS	OP47853		W		
5/6	90	↓ -BSD	↓		↓		
51/52	91	MC46343-3A	OP47841		W		RR of original = OK
7/8	92	OP47853-MB	OP47853		W		
9/10	93	MC46218-5					
11/12	94	-6					
13/14	95	-7					
15/16	96	-8					
17/18	97	-9	↓		↓		
141/142	98	CC735-50	N/A		N/A		OK
19/20	↓ 99	MC46218-10	OP47853		W		
21/22	DE14600	MC46340-1A					
23/24	01	-2A					
25/26	02	-3A					
27/28	03	-4A					
29/30	04	-5A					
31/32	05	-6A					
33/34	06	-7A					
35/36	↓ 07	↓ -8A	↓		↓		
141/142	DE14608	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 Name	de14587.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde811

Name	Amount	Response
c-9	50.90	3759888
c-10	52.11	3849824
c-12	50.45	3727172
c-14	49.68	3669944
c-16	49.11	3627868
c-18	49.17	3632168
c-19	53.46	3571494
c-20	52.74	3523038
c-22	52.70	3520876
c-24	49.53	3308854
c-26	52.78	3526100
c-28	51.19	3419949
c-30	52.05	3477198
c-36	47.77	3191320
1-chlorooctadecane	50.27	2843759
naphthalene #2	50.51	4034353
2-methylnaphthalene	49.59	3995485

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	74223	73872	**0.47**	**In Criteria**
C19-C36	68847	66806	**3.01**	**In Criteria**
c28/c20 Percentage:			97.07	

9.5.2

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BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14598.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde811

Name	Amount	Response
c-9	55.76	4118924
c-10	56.36	4163699
c-12	55.61	4108337
c-14	55.38	4091122
c-16	55.08	4069202
c-18	55.36	4089450
c-19	60.91	4069393
c-20	59.73	3990456
c-22	59.55	3978288
c-24	55.79	3727022
c-26	59.44	3971046
c-28	57.49	3840779
c-30	57.86	3865164
c-36	53.05	3543748

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	82136	73872	**10.59**	**In Criteria**
C19-C36	77465	66806	**14.78**	**In Criteria**
c28/c20 Percentage:			96.25	

1-chlorooctadecane	56.98	3223721
naphthalene #2	55.26	4413647
2-methylnaphthalene	54.47	4388209

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14608.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50,gde811

Name	Amount	Response
c-9	57.31	4233690
c-10	57.96	4281496
c-12	56.73	4190763
c-14	55.98	4135231
c-16	54.94	4058219
c-18	55.17	4075547
c-19	60.62	4050130
c-20	59.42	3969383
c-22	59.10	3948086
c-24	55.38	3699797
c-26	58.95	3938101
c-28	57.15	3817947
c-30	57.79	3860484
c-36	52.83	3529488

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	83250	73872	**11.94**	**In Criteria**
C19-C36	77034	66806	**14.22**	**In Criteria**
c28/c20 Percentage:			96.18	

1-chlorooctadecane	56.67	3205982
naphthalene #2	56.48	4511511
2-methylnaphthalene	55.64	4483056

9.5.2

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BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47843-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		11.01	50	44.04	
2-methylnaphthalene		11.77	50	47.10	
2-fluorobiphenyl	s	14.97	40	74.87	
acenaphthylene		13.83	50	55.31	
2-bromonaphthalene	s	13.00	40	65.02	
acenaphthene		16.60	50	66.39	
fluorene		14.53	50	58.13	
phenanthrene		14.58	50	58.33	
anthracene		17.58	50	70.32	
o-terphenyl	s	12.90	40	64.52	
fluoranthene		17.26	50	69.06	
pyrene		17.32	50	69.29	
benzo(a)anthracene		17.57	50	70.26	
chrysene		18.81	50	75.25	
benzo(B)fluoranthene		18.11	50	72.44	
benzo(k)fluoranthene		19.05	50	76.21	
benzo(a)pyrene		19.27	50	77.07	
indeno(1,2,3-cd)pyrene		19.28	50	77.12	
dibenzo(ah)anthracene		20.07	50	80.30	
benzo(ghi)perylene		19.91	50	79.63	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		11.85	50	47.41	
c-10		14.75	50	59.01	
c-12		16.70	50	66.79	
c-14		17.98	50	71.92	
c-16		19.01	50	76.03	
c-18		19.38	50	77.51	
c-19		21.59	50	86.35	
c-20		21.09	50	84.35	
1-chlorooctadecane	s	11.30	40	56.49	
c-22		21.05	50	84.19	
c-24		20.90	50	83.58	
c-26		20.45	50	81.79	
c-28		20.10	50	80.42	
c-30		20.77	50	83.07	
c-36		17.39	50	69.56	

Recovery C9-C18
66.45

Recovery C19-C36
81.66

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 op47853-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		11.96	50	47.85	
2-methylnaphthalene		13.01	50	52.03	
2-fluorobiphenyl	s	16.10	40	80.52	
acenaphthylene		15.47	50	61.90	
2-bromonaphthalene	s	13.88	40	69.42	
acenaphthene		17.01	50	68.05	
fluorene		16.83	50	67.31	
phenanthrene		17.17	50	68.67	
anthracene		20.52	50	82.07	
o-terphenyl	s	14.30	40	71.51	
fluoranthene		20.40	50	81.59	
pyrene		20.46	50	81.82	
benzo(a)anthracene		21.18	50	84.71	
chrysene		21.92	50	87.69	
benzo(B)fluoranthene		21.40	50	85.61	
benzo(k)fluoranthene		22.58	50	90.32	
benzo(a)pyrene		22.81	50	91.24	
indeno(1,2,3-cd)pyrene		22.76	50	91.04	
dibenzo(ah)anthracene		23.84	50	95.36	
benzo(ghi)perylene		23.57	50	94.26	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		11.02	50	44.06	
c-10		14.57	50	58.26	
c-12		17.69	50	70.78	
c-14		20.33	50	81.32	
c-16		22.11	50	88.43	
c-18		22.89	50	91.54	
c-19		25.45	50	101.81	
c-20		25.61	50	102.44	
1-chlorooctadecane	s	12.79	40	63.95	
c-22		25.08	50	100.32	
c-24		24.82	50	99.27	
c-26		24.29	50	97.17	
c-28		23.89	50	95.56	
c-30		24.03	50	96.13	
c-36		18.64	50	74.55	

Recovery C9-C18
72.40

Recovery C19-C36
95.91

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

SGS ACCUTEST

Extraction Log - Aqueous

Extraction Method:		Analysis method and test code: BMAEPH BMAEPHR	
Sep Funnel SW3510C ✓	MSE EPA3511	EPA 608	SW846 8315/8330/8011
Waste Dilution SW3580A		EPA 504	EPA 625

BATCH #	INITIALS	DATE	TIME
OP47843	MC FT	6/13/16	08
Extracted by:	~~[illegible]~~	~~6/13/16~~	~~2000~~
Spike Witness:	MC GB	↓	↓
Concentrated by:	AJ	6/15/16	14:00
Fractionated by:	AJ	Volume (ml):	2.5
Received by:	TK	6/15/16	14:00

Tray # GC-36

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7731	2000	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7483	2000	20
EPH Fn	7725	40	1ml

Sample #	Sample Bottle #	Acid pH	Base pH	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
OP47843 MB	n/a	2	n/a	1000	2.0	
BS	↓	↓	↓	↓	↓	
BSD	↓	↓	↓	↓	↓	
MS						
MSD						
1 MC46218-5	8	2	n/a	850	2.0	
2 -6	8	↓	↓	980	↓	
3 -7	8	↓	↓	980	↓	
4 -8	8	↓	↓	980	↓	
5 -9	8	↓	↓	970	↓	
6 -10	8	↓	↓	970	↓	
7 MC46340-1A	4	↓	↓	980	↓	
8 -2A	5	↓	↓	920	↓	
9 -3A	4	↓	↓	900	↓	
10 -4A	4	↓	↓	980	↓	
11 -5A	5	↓	↓	970	↓	
12 -6A	4	↓	↓	960	↓	
13 -7A	4	↓	↓	990	↓	
14 -8A	4	↓	↓	880	↓	
15						
16						
17						
18						
19						
20						

Comments:

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)	1+4	50/60	—
Waterbath Temp °C	—	—	—
NEVAP (32-38 °C)	005	38	—
Chiller	—	—	
Balance	—	N/A	N/A

SOLVENT	LOT #	BRAND
HEXANE Only	162790	Fisher
ETHER	—	Fisher
ACETONITRILE	—	Fisher
ACETONE	—	Fisher
DCM	163412	Fisher

REAGENT	LOT #	BRAND
SPE MFG	3062895	Restek
SILICA GEL	—	—
SODIUM SULFATE	D-023	FISHER
CITRATE BUFFER	—	—
COPPER	—	—
FLORISIL	—	—
SULFURIC ACID	—	—
NaOH	—	—
DNPH	—	—
FILTER PAPER	9668411	FISHER
POREPAK RDX CARTRIDGES	—	—
pH PAPER	216814	Hydrion

Filtered by: Init./Date:

SGS ACCUTEST - MARLBOROUGH
Form: OP018-03
Rev Date: 4/26/16

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