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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: MC45611

Sampling Date: 04/28/16

Report to:

Anderson-Mulholland and Associates Inc.
2700 Westchester Avenue
Purchase, NY 00677
roreilly@amaiconsult.com; ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **910**

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.

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45611

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45611-1	04/28/16	12:37	NR	04/29/16	SO	Soil	MW-20S(7-8)
MC45611-2	04/28/16	13:00	TT	04/29/16	AQ	Ground Water	RA18-GWD
MC45611-2A	04/28/16	13:00	TT	04/29/16	AQ	Ground Water	RA18-GWD
MC45611-2AD	04/28/16	13:00	TT	04/29/16	AQ	Water Dup/MSD	RA18-GWD
MC45611-2AS	04/28/16	13:00	TT	04/29/16	AQ	Water Matrix Spike	RA18-GWD
MC45611-2D	04/28/16	13:00	TT	04/29/16	AQ	Water Dup/MSD	RA18-GWD
MC45611-2S	04/28/16	13:00	TT	04/29/16	AQ	Water Matrix Spike	RA18-GWD

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Anderson Mulholland and Assoc.	**Job No**	MC45611
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	5/17/2016 9:04:16 AM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 04/28/2016 and were received at SGS Accutest New England on 04/29/2016 properly preserved, at 1.2 Deg. C and intact. These Samples received a job number of MC45611. 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:** GAB5159

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45611-2MS, MC45611-2MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** GAB5160

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

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47292

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45611-2AMS, MC45611-2AMSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP47424

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45611-1MS, MC45611-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM 2540G-97 MOD

Matrix: SO **Batch ID:** GN53768

- Sample(s) MC45611-1DUP were used as the QC samples for Solids, Percent.

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(MC45611).

Summary of Hits

Job Number: MC45611
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 04/28/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45611-1	**MW-20S(7-8)**					
No hits reported in this sample.						
MC45611-2	**RA18-GWD**					
No hits reported in this sample.						
MC45611-2A	**RA18-GWD**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20S(7-8)		
Lab Sample ID:	MC45611-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	75.6
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB93919.D	1	05/02/16	AF	n/a	n/a	GAB5160
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	16.2 g	16.0 ml	100 ul
Run #2			

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	8200	4100	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	8200	4100	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	8200	4100	ug/kg	
	C5- C8 Aliphatics	ND	8200	4100	ug/kg	
	C9- C12 Aliphatics	ND	8200	4100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	99%		70-130%
	2,3,4-Trifluorotoluene	101%		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:	MW-20S(7-8)		
Lab Sample ID:	MC45611-1	**Date Sampled:**	04/28/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	75.6
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14092.D	1	05/16/16	TA	05/10/16	OP47424	GDE791
Run #2							

	Initial Weight	Final Volume
Run #1	11.0 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	24000	19000	ug/kg	
	C9-C18 Aliphatics	ND	12000	9600	ug/kg	
	C19-C36 Aliphatics	ND	12000	9600	ug/kg	
	C11-C22 Aromatics	ND	24000	19000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%
580-13-2	2-Bromonaphthalene	86%		40-140%
3386-33-2	1-Chlorooctadecane	65%		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:	RA18-GWD		
Lab Sample ID:	MC45611-2	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	04/29/16
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	AB93911.D	1	04/29/16	AF	n/a	n/a	GAB5159
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	84%		70-130%
	2,3,4-Trifluorotoluene	88%		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:	RA18-GWD		
Lab Sample ID:	MC45611-2A	**Date Sampled:**	04/28/16
Matrix:	AQ - Ground Water	**Date Received:**	04/29/16
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	DE14008.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
Run #2							

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

Extractable TPHC Ranges

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%
321-60-8	2-Fluorobiphenyl	94%		40-140%
3386-33-2	1-Chlorooctadecane	62%		40-140%
580-13-2	2-Bromonaphthalene	96%		40-140%

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

SGS ACCUTEST - NE

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

SGS Accutest Quote # 802591276562

Bottle Order Control # MC45611

SGS Accutest Job # Get from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc
Street Address: 2700 Westchester
City: Purchase State: NY Zip:
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 FAX #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand Phone #:

Project Information

Project Name: BMS Release Assessment
Street:
City: Humacao PR
Project#:
Client PO#:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MeOH	ENCORE	Bisulfate	VMA VPH	BMAEPHR	LAB USE ONLY
-1	MW-20S (7-8)		4/28/16	1237	NR	SO	5					2			3		X	X	
	RA18-GWD		4/28/16	1300	TT	GW	5	5									X	X	
-2	RA18-GWD (MS)		4/28/16	1300	TT	GW	5	5									X	X	
	RA18-GWD (MSD)		4/28/16	1300	TT	GW	5	5									X	X	
																			16B
																			10L2
																			2K2
																			2C

Data Deliverable Information

- Turnaround Time (Business days)
- [X] Std. 10 Business Days For Soil
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [X] 1 Day *EMERGENCY* For Aqueous
- Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

RUSH!

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

INITIAL ASESSMENT
LABEL VERIFICATION

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 NR	4/28/16 1500	1 Fed Ex	2 FX	4-29-16 1000	2 [illegible]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 624	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 1.2 °C

MC45611: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC45611 **Client:** ANDERSON **Project:** BMS

Date / Time Received: 4/29/2016 10:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 802591276562

Cooler Temps (Initial/Adjusted): #1: (1.2/1.2);

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

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

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

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

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

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

Comments

MC45611: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45611

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45611-1	Collected: 28-APR-16 12:37 By: NR		Received: 29-APR-16 By: NT			
MW-20S(7-8)						
MC45611-1	MADEP VPH REV 1.1	02-MAY-16 10:50	AF			VMAVPHR
MC45611-1	SM 2540G-97 MOD	09-MAY-16	EL			%SOL
MC45611-1	MADEP EPH REV 1.1	16-MAY-16 10:12	TA	10-MAY-16	PA	BMAEPHR
MC45611-2	Collected: 28-APR-16 13:00 By: TT		Received: 29-APR-16 By: NT			
RA18-GWD						
MC45611-2	MADEP VPH REV 1.1	29-APR-16 16:30	AF			VMAVPHR
MC45611-2A	Collected: 28-APR-16 13:00 By: TT		Received: 29-APR-16 By: NT			
RA18-GWD						
MC45611-2A	MADEP EPH REV 1.1	02-MAY-16 14:37	TA	29-APR-16	IC	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 04/29/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45611-1.1	VOC Ref #10	Anthony Franciosa	05/02/16 07:26	Retrieve from Storage
MC45611-1.1	Anthony Franciosa	GCAB	05/02/16 07:26	Load on Instrument
MC45611-1.1	GCAB	Anthony Franciosa	05/02/16 09:23	Unload from Instrument
MC45611-1.1	Anthony Franciosa	VOC Ref #10	05/02/16 09:23	Return to Storage
MC45611-1.2	Walk In Ref #5	Eriola Londo	05/09/16 11:57	Retrieve from Storage
MC45611-1.2	Eriola Londo	Walk In Ref #5	05/10/16 07:49	Return to Storage
MC45611-1.2	Walk In Ref #5	Nicole Estey	05/10/16 22:58	Retrieve from Storage
MC45611-1.2	Nicole Estey	Walk In Ref #5	05/10/16 23:32	Return to Storage
MC45611-1.3	Walk In Ref #5	Nicole Estey	05/10/16 22:52	Retrieve from Storage
MC45611-1.3	Nicole Estey	Walk In Ref #5	05/10/16 23:32	Return to Storage
MC45611-2.1	VOC Ref #2	Anthony Franciosa	04/29/16 14:06	Retrieve from Storage
MC45611-2.1	Anthony Franciosa	GCAB	04/29/16 14:06	Load on Instrument
MC45611-2.1	GCAB	Anthony Franciosa	05/02/16 07:25	Unload from Instrument
MC45611-2.1	Anthony Franciosa	VOC Ref #2	05/02/16 07:25	Return to Storage
MC45611-2.2	VOC Ref #2	Anthony Franciosa	04/29/16 14:06	Retrieve from Storage
MC45611-2.2	Anthony Franciosa	GCAB	04/29/16 14:06	Load on Instrument
MC45611-2.2	GCAB	Anthony Franciosa	05/02/16 07:25	Unload from Instrument
MC45611-2.2	Anthony Franciosa	VOC Ref #2	05/02/16 07:25	Return to Storage
MC45611-2.3	VOC Ref #2	Anthony Franciosa	04/29/16 14:06	Retrieve from Storage
MC45611-2.3	Anthony Franciosa	GCAB	04/29/16 14:06	Load on Instrument
MC45611-2.3	GCAB	Anthony Franciosa	05/02/16 07:25	Unload from Instrument
MC45611-2.3	Anthony Franciosa	VOC Ref #2	05/02/16 07:25	Return to Storage
MC45611-2.12	Walk In Ref #22	Ilir Capi	04/29/16 22:41	Retrieve from Storage
MC45611-2.12	Ilir Capi		05/03/16 23:31	Depleted
MC45611-2.13	Walk In Ref #22	Ilir Capi	04/29/16 22:41	Retrieve from Storage
MC45611-2.13	Ilir Capi		05/03/16 23:31	Depleted
MC45611-2.14	Walk In Ref #22	Ilir Capi	04/29/16 22:41	Retrieve from Storage
MC45611-2.14	Ilir Capi		05/03/16 23:31	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: MC45611
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
GAB5159-MB	AB93908.D	1	04/29/16	AF	n/a	n/a	GAB5159

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

MC45611-2

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

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	84%	70-130%
	2,3,4-Trifluorotoluene	87%	70-130%

Method Blank Summary

Job Number: MC45611
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
GAB5160-MB	AB93916.D	1	05/02/16	AF	n/a	n/a	GAB5160

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

MC45611-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	5000	2500	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	5000	2500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	5000	2500	ug/kg	
	C5- C8 Aliphatics	ND	5000	2500	ug/kg	
	C9- C12 Aliphatics	ND	5000	2500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	95%	70-130%
	2,3,4-Trifluorotoluene	96%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45611
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
GAB5159-BSP	AB93909.D	1	04/29/16	AF	n/a	n/a	GAB5159
GAB5159-BSD	AB93910.D	1	04/29/16	AF	n/a	n/a	GAB5159

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

MC45611-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	143	95	144	96	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	131	87	133	89	2	70-130/25
	C9- C10 Aromatics (Unadj.)	50	46.5	93	46.7	93	0	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	91%	92%	70-130%
	2,3,4-Trifluorotoluene	94%	94%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45611
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
GAB5160-BSP	AB93917.D	1	05/02/16	AF	n/a	n/a	GAB5160
GAB5160-BSD	AB93918.D	1	05/02/16	AF	n/a	n/a	GAB5160

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

MC45611-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	7500	7770	104	7780	104	0	70-130/25
	C9- C12 Aliphatics (Unadj.)	7500	7340	98	7510	100	2	70-130/25
	C9- C10 Aromatics (Unadj.)	2500	2570	103	2620	105	2	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	106%	106%	70-130%
	2,3,4-Trifluorotoluene	107%	108%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45611
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
MC45611-2MS	AB93912.D	1	04/29/16	AF	n/a	n/a	GAB5159
MC45611-2MSD	AB93913.D	1	04/29/16	AF	n/a	n/a	GAB5159
MC45611-2	AB93911.D	1	04/29/16	AF	n/a	n/a	GAB5159

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

MC45611-2

CAS No.	Compound	MC45611-2 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	318	91	350	319	91	0	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		400	443	110	400	448	112	1	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	158	105	150	161	107	2	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45611-2	Limits
	2,3,4-Trifluorotoluene	92%	94%	84%	70-130%
	2,3,4-Trifluorotoluene	94%	95%	88%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45611
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]
MC45611-2	AB93911.D	84	88
GAB5159-BSD	AB93910.D	92	94
GAB5159-BSP	AB93909.D	91	94
GAB5159-MB	AB93908.D	84	87
MC45611-2MS	AB93912.D	92	94
MC45611-2MSD	AB93913.D	94	95

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

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

Volatile Surrogate Recovery Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC45611-1	AB93919.D	99	101
GAB5160-BSD	AB93918.D	106	108
GAB5160-BSP	AB93917.D	106	107
GAB5160-MB	AB93916.D	95	96

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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GAB5159-CC5058	**Injection Date:**	04/29/16
Lab File ID:	AB93907.D	**Injection Time:**	13:56
Instrument ID:	GCAB	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	20.19	20.19

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GAB5159-MB	AB93908.D	04/29/16	14:34	20.20	20.20
GAB5159-BSP	AB93909.D	04/29/16	15:13	20.19	20.20
GAB5159-BSD	AB93910.D	04/29/16	15:52	20.19	20.20
MC45611-2	AB93911.D	04/29/16	16:30	20.20	20.20
MC45611-2MS	AB93912.D	04/29/16	17:09	20.19	20.20
MC45611-2MSD	AB93913.D	04/29/16	17:47	20.19	20.19

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GAB5160-CC5058	**Injection Date:**	05/02/16
Lab File ID:	AB93915.D	**Injection Time:**	08:18
Instrument ID:	GCAB	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	20.19	20.19

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GAB5160-MB	AB93916.D	05/02/16	08:57	20.19	20.20
GAB5160-BSP	AB93917.D	05/02/16	09:34	20.19	20.20
GAB5160-BSD	AB93918.D	05/02/16	10:12	20.19	20.20
MC45611-1	AB93919.D	05/02/16	10:50	20.19	20.20

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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GAB5058-ICC5058
Lab FileID: AB92588.D

```
                         Response Factor Report  GCAB

  Method       : C:\msdchem\1\methods\ab160112vph.M (ChemStation Integrator)
  Title        : vph
  Last Update  : Tue Jan 12 15:39:56 2016
  Response via : Initial Calibration

  Calibration Files
  1   =AB92584.d   2   =AB92585.d   3   =AB92586.d   4   =AB92587.d
  5   =AB92588.d   6   =AB92589.d   7   =AB92590.d   8   =AB92591.d
  9   =AB92592.d       =

   Compound
             1     2     3     4     5     6     7     8     9       Avg    %RSD
  ---------------------------------------------------------------------------
  1)  rt5.5-7
            4.015                   4.015                           4.015 E5    0.00
  2)  rt7/10
            4.015                   4.015                           4.015 E5    0.00
  3)  rt10/13
            4.015                   4.015                           4.015 E5    0.00
  4)  fluorobenzene
            4.421 4.338 4.284 4.287 4.423 4.362 4.400 4.413 4.684   4.401 E5    2.70
  5)  rt13/16
                                                                    0.000   -1.00
  6)  2,3,4-trifluorotoluene
            3.985 3.928 3.890 3.872 4.062 4.159 4.136 4.292 4.572   4.100 E5    5.49
  7)  rt16/20
                                                                    0.000   -1.00
  8)  rt20/25
            6.265                   6.265                           6.265 E5    0.00
  9)  rt25/29
                                                                    0.000   -1.00
 10)  decane
            6.265                   6.265                           6.265 E5    0.00
 11)  butylcyclohexane
            6.265                   6.265                           6.265 E5    0.00
 12)  2,5-dibromotoluene
                                                                    0.000   -1.00

Signal #2

 14)  mtbe #2
            4.582 4.985 5.060 4.982 5.169 5.191 5.208 5.064 5.159   5.045 E5    3.83
 15)  benzene #2
            1.012 1.142 1.273 1.377 1.407 1.397 1.401 1.320 1.386   1.302 E6   10.64
 16)  fluorobenzene #2
            6.853 7.953 8.635 8.795 8.966 8.690 8.582 8.606 8.720   8.422 E5    7.72
 17)  toluene #2
            0.865 0.992 1.099 1.178 1.208 1.217 1.233 1.262 1.234   1.143 E6   11.70
 18)  2,3,4-trifluorotoluene #2
            4.061 4.472 4.657 4.626 4.716 4.722 4.786 4.976 5.004   4.669 E5    6.04
 19)  ethylbenzene #2
            7.138 8.334 9.106 9.708 9.986 9.985 9.977 9.450 9.642   9.259 E5   10.34
 20)  m,p-xylene #2
            0.719 0.786 0.903 1.065 1.207 1.232 1.238 1.180 1.216   1.061 E6   19.35
 21)  o-xylene #2
            0.684 0.814 0.917 0.978 1.013 1.008 1.013 0.974 1.006   0.934 E6   12.18
 22)  1,3,5-trimethylbenzene #2
            0.848 1.055 1.250 1.376 1.460 1.417 1.423 1.439 1.490   1.307 E6   16.73
```

Initial Calibration Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5058-ICC5058
Lab FileID: AB92588.D

```
23)  1,2,4-trimethylbenzene #2
           0.633 0.790 0.926 1.001 1.046 1.065 1.071 1.029 1.052   0.957 E6   15.78
24)  naphthalene #2
           3.706 5.271 6.565 7.237 7.534 8.607 8.284 8.630 9.228   7.229 E5   24.82
25)  c9-c10 arom as 1,2,4-tmb
           0.633 0.789 0.925 1.003 1.050 1.073 1.071 1.023 1.056   0.958 E6   15.89
26)  2,5-dibromotoluene #2
                                                                   0.000   -1.00
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          ab160112vph.M        Wed Jan 13 07:41:06 2016
```

Initial Calibration Verification

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GAB5058-ICV5058
Lab FileID: AB92593.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 14:02:22
Operator  : haleyn
Sample    : icv5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


Min. RRF     :   0.000  Min. Rel. Area :  80%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 120%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	310.947 E3	22.6#	77#	0.00
2	h	rt7/10	401.509	359.990 E3	10.3	90	0.00
3	h	rt10/13	401.509	418.403 E3	-4.2	104	0.00
4	s	fluorobenzene	440.139	412.455 E3	6.3	93	0.00
6	s	2,3,4-trifluorotoluene	409.952	373.103 E3	9.0	92	0.00
8	h	rt20/25	626.504	534.891 E3	14.6	85	0.00
10	h	decane	626.504	546.412 E3	12.8	87	0.00
11	h	butylcyclohexane	626.504	575.270 E3	8.2	92	0.00
Signal #2							
14		mtbe #2	504.452	478.410 E3	5.2	93	0.00
15		benzene #2	1.302	1.313 E6	-0.8	93	0.00
16	s	fluorobenzene #2	842.245	822.717 E3	2.3	92	0.00
17		toluene #2	1143.283	1127.102 E3	1.4	93	0.00
18	s	2,3,4-trifluorotoluene #2	466.878	433.633 E3	7.1	92	0.00
19		ethylbenzene #2	925.851	917.638 E3	0.9	92	0.00
20		m,p-xylene #2	1060.718	1124.544 E3	-6.0	93	0.00
21		o-xylene #2	934.140	947.669 E3	-1.4	94	0.00
22	t	1,3,5-trimethylbenzene #2	1306.512	1262.638 E3	3.4	86	0.00
23		1,2,4-trimethylbenzene #2	957.036	955.950 E3	0.1	91	0.00
24		naphthalene #2	722.911	665.539 E3	7.9	88	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	959.448 E3	-0.1	91	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Initial Calibration Verification

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5058-ICV5058
Lab FileID: AB92593.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

ab160112vph.M Wed Jan 13 07:40:57 2016
```

Continuing Calibration Summary

Job Number: MC45611 **Sample:** GAB5159-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93907.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93907.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 13:56:15
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 14:59:34 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	324.843 E3	19.1	81	0.00
2	h	rt7/10	401.509	377.597 E3	6.0	94	0.00
3	h	rt10/13	401.509	434.951 E3	-8.3	108	0.00
4	s	fluorobenzene	440.139	428.154 E3	2.7	97	-0.01
6	s	2,3,4-trifluorotoluene	409.952	386.152 E3	5.8	95	-0.01
8	h	rt20/25	626.504	523.129 E3	16.5	83	0.00
10	h	decane	626.504	518.964 E3	17.2	83	0.00
11	h	butylcyclohexane	626.504	575.464 E3	8.1	92	0.00
Signal #2							
14		mtbe #2	504.452	507.654 E3	-0.6	98	0.00
15		benzene #2	1.302	1.267 E6	2.7	90	-0.01
16	s	fluorobenzene #2	842.245	824.489 E3	2.1	92	-0.01
17		toluene #2	1143.283	1089.294 E3	4.7	90	-0.01
18	s	2,3,4-trifluorotoluene #2	466.878	428.735 E3	8.2	91	-0.01
19		ethylbenzene #2	925.851	893.789 E3	3.5	90	-0.01
20		m,p-xylene #2	1060.718	1077.731 E3	-1.6	89	-0.01
21		o-xylene #2	934.140	896.999 E3	4.0	89	-0.01
22	t	1,3,5-trimethylbenzene #2	1306.512	1172.860 E3	10.2	80	0.00
23		1,2,4-trimethylbenzene #2	957.036	902.558 E3	5.7	86	0.00
24		naphthalene #2	722.911	658.304 E3	8.9	87	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	902.782 E3	5.8	86	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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5159-CC5058
Lab FileID: AB93907.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

ab160429vph.M Mon May 02 07:04:48 2016
```

Continuing Calibration Summary

Job Number: MC45611 **Sample:** GAB5159-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93914.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93914.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 18:25:34
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:55:28 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	326.549 E3	18.7	81	0.00
2	h	rt7/10	401.509	381.759 E3	4.9	95	0.00
3	h	rt10/13	401.509	446.320 E3	-11.2	111	0.00
4	s	fluorobenzene	440.139	429.251 E3	2.5	97	-0.01
6	s	2,3,4-trifluorotoluene	409.952	386.841 E3	5.6	95	-0.01
8	h	rt20/25	626.504	537.986 E3	14.1	86	0.00
10	h	decane	626.504	536.557 E3	14.4	86	0.00
11	h	butylcyclohexane	626.504	590.143 E3	5.8	94	0.00
Signal #2							
14		mtbe #2	504.452	521.506 E3	-3.4	101	0.00
15		benzene #2	1.302	1.285 E6	1.3	91	-0.01
16	s	fluorobenzene #2	842.245	837.551 E3	0.6	93	-0.01
17		toluene #2	1143.283	1105.362 E3	3.3	91	-0.01
18	s	2,3,4-trifluorotoluene #2	466.878	437.010 E3	6.4	93	-0.01
19		ethylbenzene #2	925.851	905.114 E3	2.2	91	-0.01
20		m,p-xylene #2	1060.718	1087.037 E3	-2.5	90	-0.01
21		o-xylene #2	934.140	908.864 E3	2.7	90	-0.01
22	t	1,3,5-trimethylbenzene #2	1306.512	1187.009 E3	9.1	81	0.00
23		1,2,4-trimethylbenzene #2	957.036	913.404 E3	4.6	87	0.00
24		naphthalene #2	722.911	682.835 E3	5.5	91	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	913.376 E3	4.7	87	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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5159-CC5058
Lab FileID: AB93914.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

ab160429vph.M Mon May 02 07:12:26 2016
```

Continuing Calibration Summary

Job Number: MC45611 **Sample:** GAB5160-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93915.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:18:58
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26201,gab5160,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:51:36 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	315.806 E3	21.3	79	0.00
2	h	rt7/10	401.509	373.011 E3	7.1	93	0.00
3	h	rt10/13	401.509	432.494 E3	-7.7	108	0.00
4	s	fluorobenzene	440.139	428.890 E3	2.6	97	-0.01
6	s	2,3,4-trifluorotoluene	409.952	387.188 E3	5.6	95	-0.01
8	h	rt20/25	626.504	527.695 E3	15.8	84	0.00
10	h	decane	626.504	525.700 E3	16.1	84	0.00
11	h	butylcyclohexane	626.504	580.311 E3	7.4	93	0.00
Signal #2							
14		mtbe #2	504.452	506.694 E3	-0.4	98	0.00
15		benzene #2	1.302	1.277 E6	1.9	91	-0.01
16	s	fluorobenzene #2	842.245	834.662 E3	0.9	93	-0.01
17		toluene #2	1143.283	1100.375 E3	3.8	91	-0.01
18	s	2,3,4-trifluorotoluene #2	466.878	435.491 E3	6.7	92	-0.01
19		ethylbenzene #2	925.851	897.237 E3	3.1	90	-0.01
20		m,p-xylene #2	1060.718	1076.744 E3	-1.5	89	-0.01
21		o-xylene #2	934.140	904.955 E3	3.1	89	-0.01
22	t	1,3,5-trimethylbenzene #2	1306.512	1170.105 E3	10.4	80	0.00
23		1,2,4-trimethylbenzene #2	957.036	899.876 E3	6.0	86	0.00
24		naphthalene #2	722.911	645.506 E3	10.7	86	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	899.558 E3	6.1	86	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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5160-CC5058
Lab FileID: AB93915.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

ab160502vph.M Tue May 03 07:24:46 2016
```

Continuing Calibration Summary

Job Number: MC45611 **Sample:** GAB5160-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93920.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93920.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 11:28:44
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26201,gab5160,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 07:21:30 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	401.509	316.871 E3	21.1	79	0.00
2	h	rt7/10	401.509	373.867 E3	6.9	93	0.00
3	h	rt10/13	401.509	433.280 E3	-7.9	108	0.00
4	s	fluorobenzene	440.139	428.943 E3	2.5	97	-0.01
6	s	2,3,4-trifluorotoluene	409.952	385.597 E3	5.9	95	0.00
8	h	rt20/25	626.504	535.618 E3	14.5	85	0.00
10	h	decane	626.504	538.119 E3	14.1	86	0.00
11	h	butylcyclohexane	626.504	589.294 E3	5.9	94	0.00
Signal #2							
14		mtbe #2	504.452	505.096 E3	-0.1	98	0.00
15		benzene #2	1.302	1.267 E6	2.7	90	-0.01
16	s	fluorobenzene #2	842.245	826.921 E3	1.8	92	0.00
17		toluene #2	1143.283	1093.569 E3	4.3	90	0.00
18	s	2,3,4-trifluorotoluene #2	466.878	430.949 E3	7.7	91	0.00
19		ethylbenzene #2	925.851	896.480 E3	3.2	90	0.00
20		m,p-xylene #2	1060.718	1067.946 E3	-0.7	88	0.00
21		o-xylene #2	934.140	889.401 E3	4.8	88	0.00
22	t	1,3,5-trimethylbenzene #2	1306.512	1170.827 E3	10.4	80	0.00
23		1,2,4-trimethylbenzene #2	957.036	901.540 E3	5.8	86	0.00
24		naphthalene #2	722.911	643.114 E3	11.0	85	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	901.794 E3	5.9	86	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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5160-CC5058
Lab FileID: AB93920.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

ab160502vph.M Tue May 03 07:24:49 2016
```

GC Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/10/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 07:24:25 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s fluorobenzene	15.141	23375631	53.110 ppb
Spiked Amount 50.000		Recovery	= 106.22%
6) s 2,3,4-trifluorotoluene	20.197	20717237	50.536 ppb
Spiked Amount 50.000		Recovery	= 101.07%
16) s fluorobenzene #2	15.140	44584182	52.935 ppb
Spiked Amount 50.000		Recovery	= 105.87%
18) s 2,3,4-trifluorotoluen...	20.194	23064007	49.401 ppb
Spiked Amount 50.000		Recovery	= 98.80%
Target Compounds			
1) h rt5.5-7	6.420	418241	1.042 ppb m
2) h rt7/10	8.720	245997	0.613 ppb m
3) h rt10/13	13.870	1876874	4.675 ppb m
8) h rt20/25	21.870	14070855	22.459 ppb
24) naphthalene #2	28.052	680695	0.942 ppb m
25) h c9-c10 arom as 1,2,4-tmb	25.096	24371574	25.439 ppb

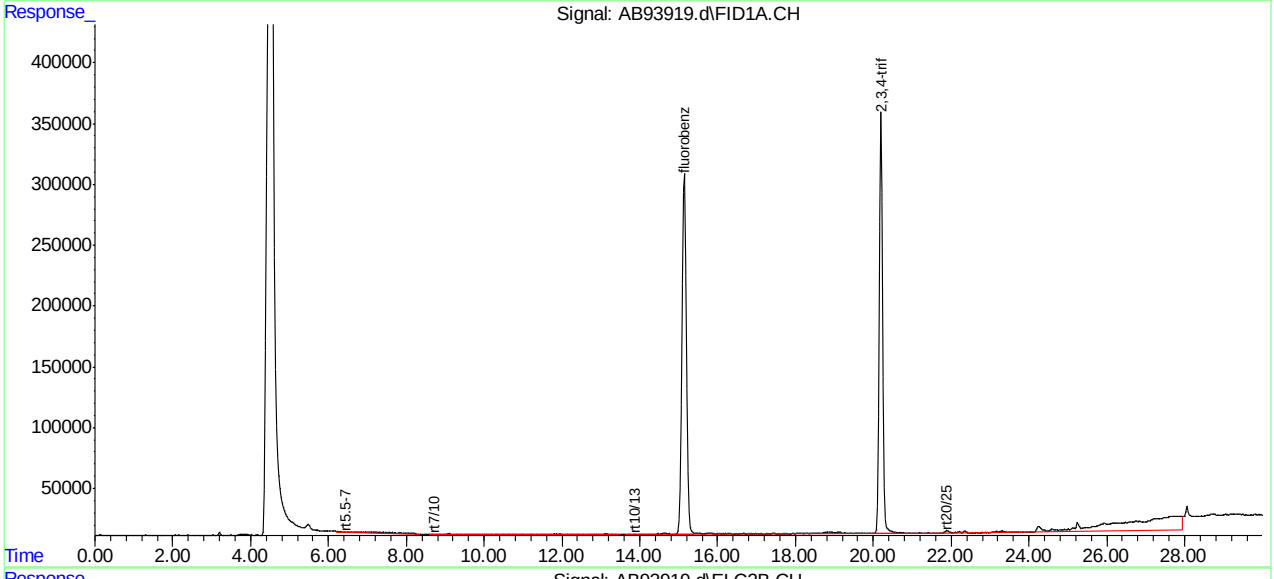
(f)=RT Delta > 1/2 Window (m)=manual int.

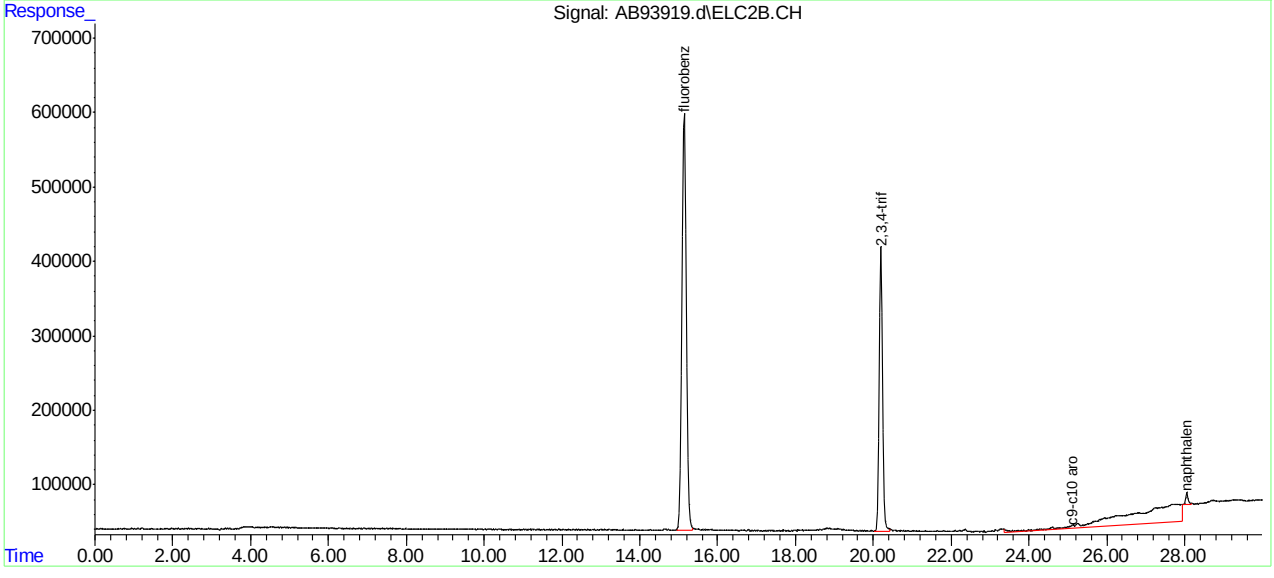
Quantitation Report (QT Reviewed)

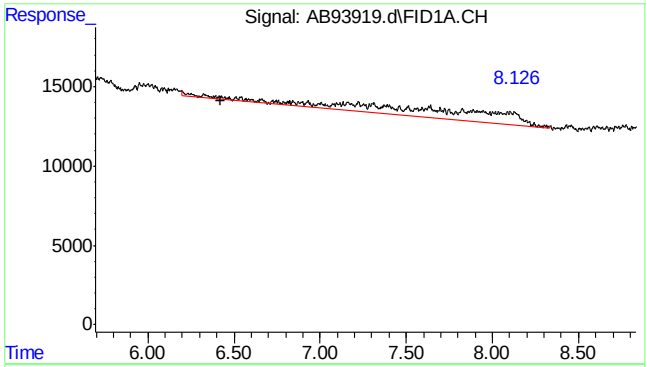
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 07:24:25 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

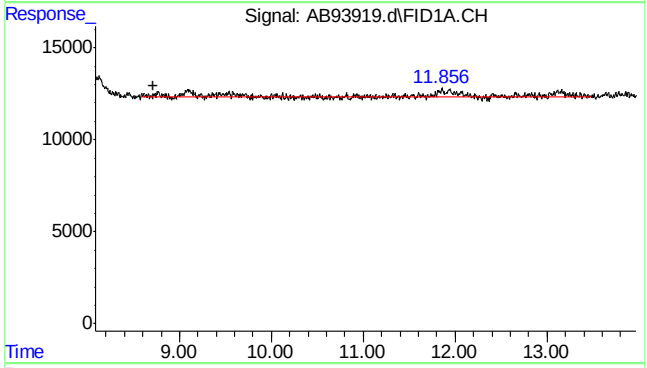






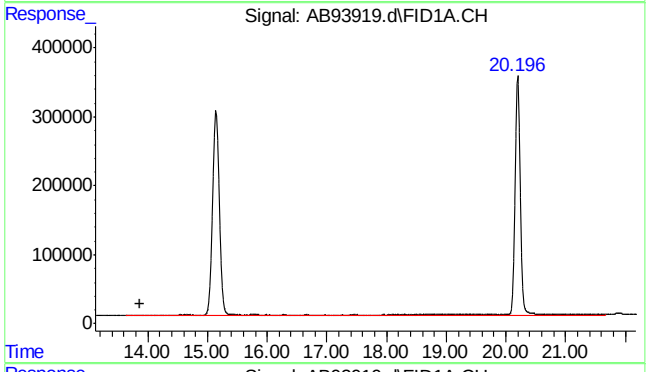
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 418241
Conc: 1.04 ppb m



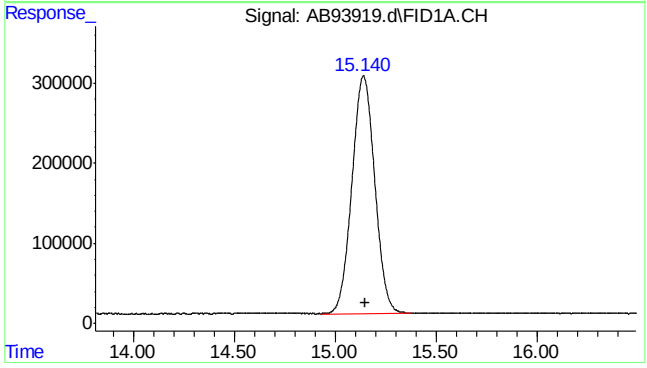
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 245997
Conc: 0.61 ppb m



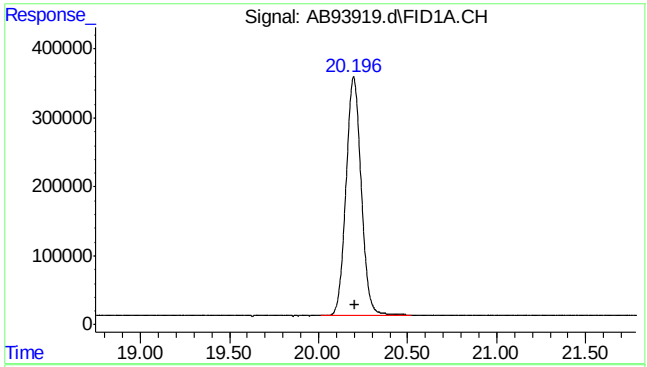
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 1876874
Conc: 4.67 ppb m



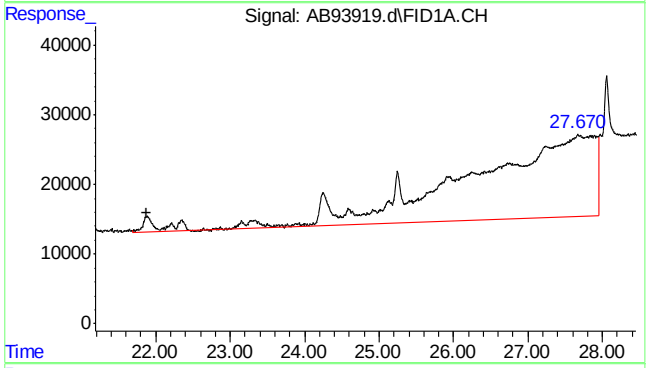
#4 fluorobenzene

R.T.: 15.141 min
Delta R.T.: -0.010 min
Response: 23375631
Conc: 53.11 ppb



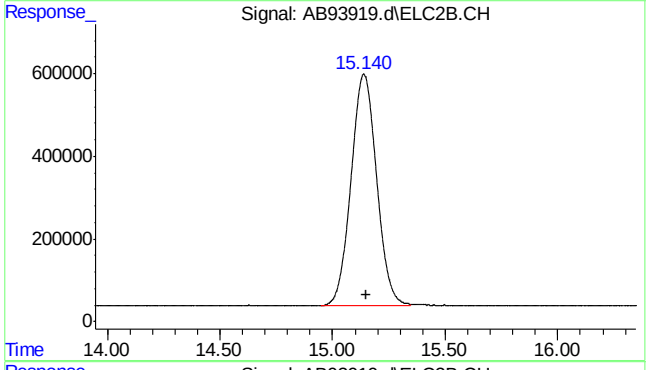
#6 2,3,4-trifluorotoluene

R.T.: 20.197 min
Delta R.T.: -0.009 min
Response: 20717237
Conc: 50.54 ppb



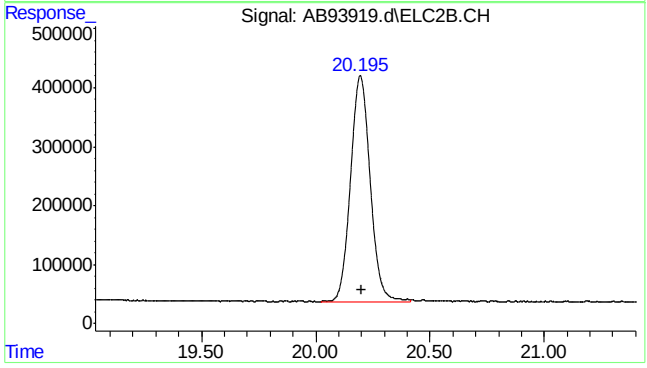
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 14070855
Conc: 22.46 ppb



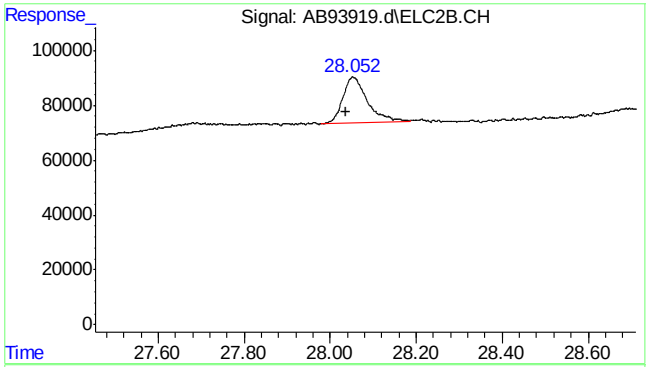
#16 fluorobenzene #2

R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 44584182
Conc: 52.93 ppb



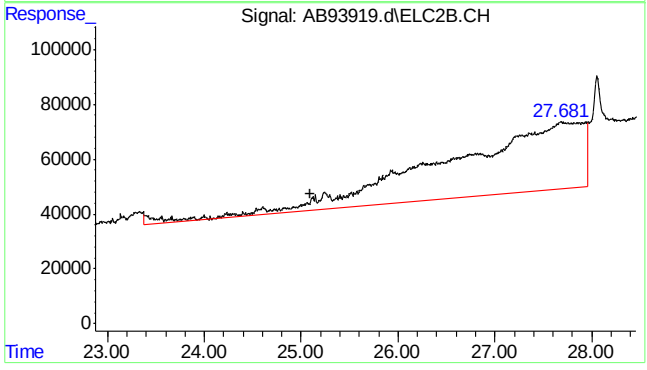
#18 2,3,4-trifluorotoluene #2

R.T.: 20.194 min
Delta R.T.: -0.009 min
Response: 23064007
Conc: 49.40 ppb



#24 naphthalene #2

```
      R.T.:   28.052 min
Delta R.T.:    0.014 min
  Response:    680695
      Conc:   0.94 ppb m
```



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

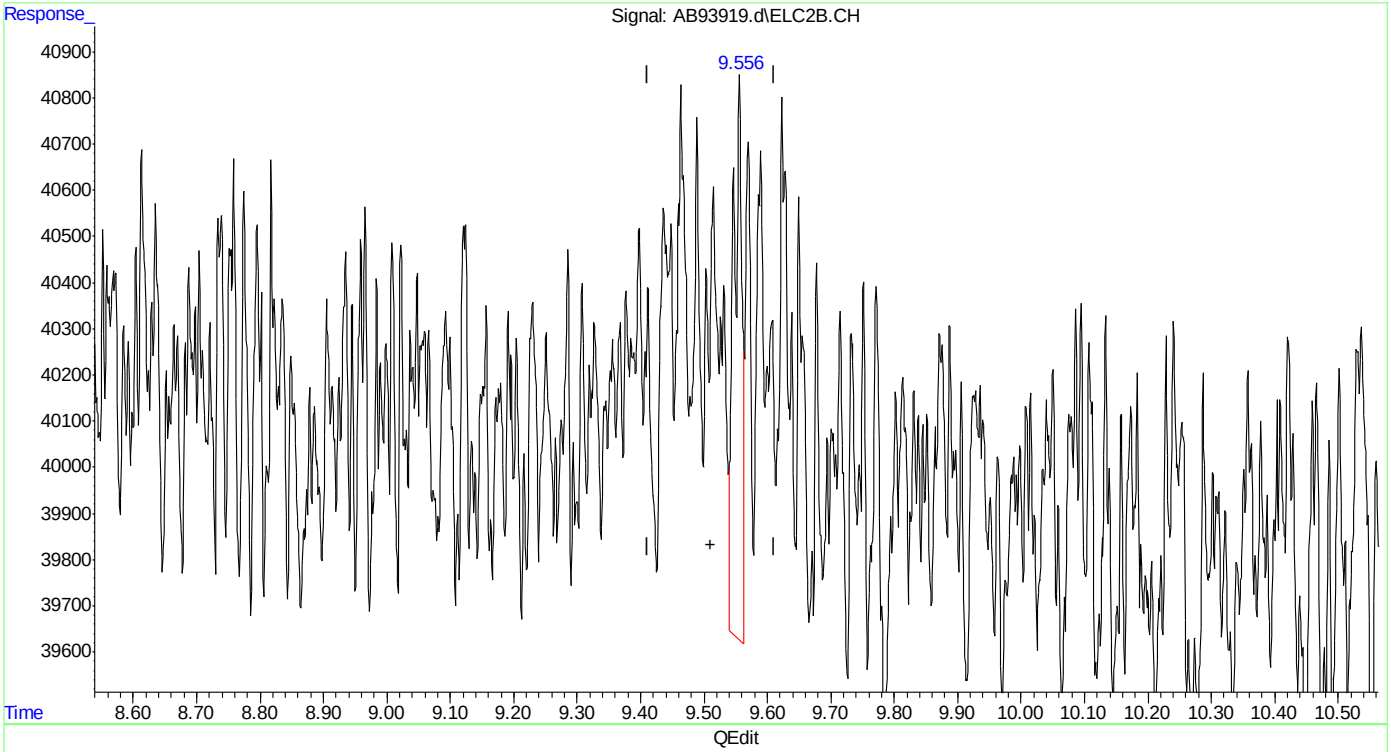
```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  24371574
      Conc:  25.44 ppb
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.556min 0.023 ppb
response 11654

(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:23:54 2016

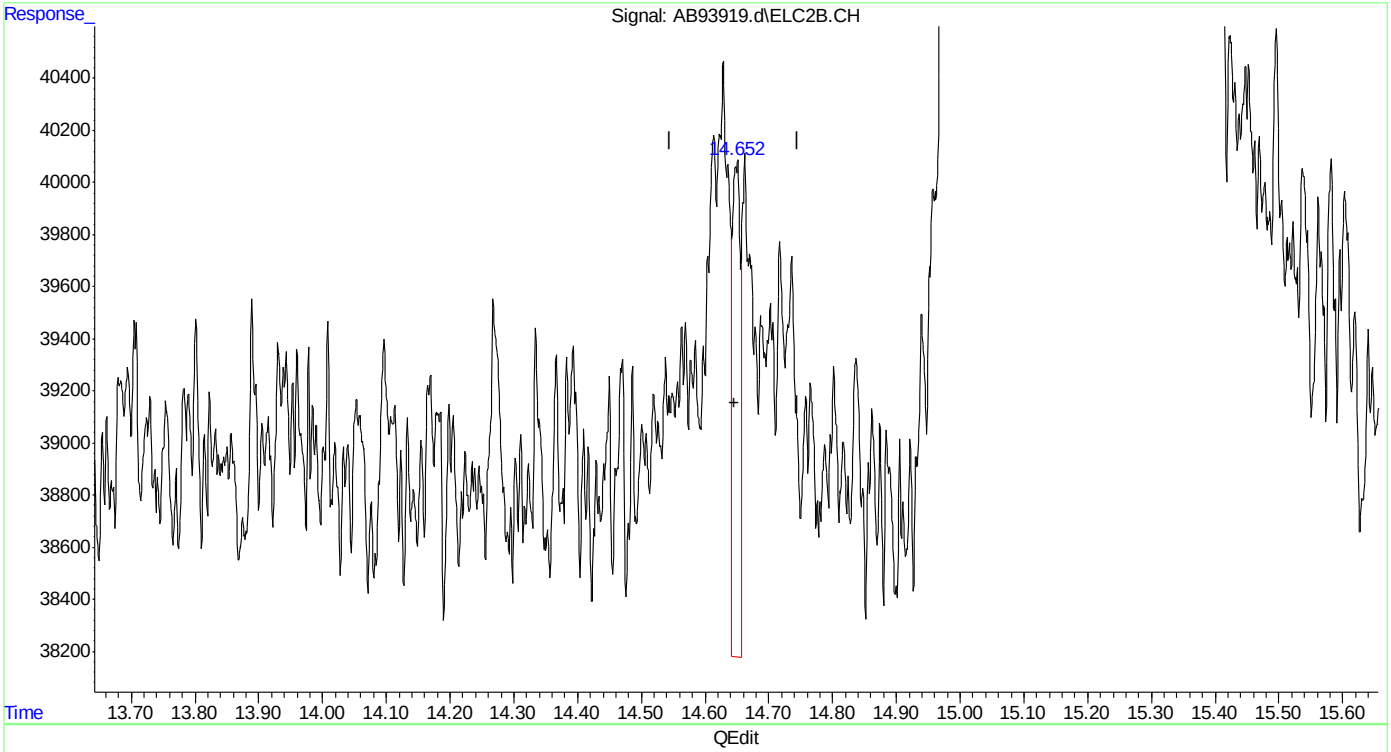
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2
14.650min 0.012 ppb
response 15417

(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:23:58 2016

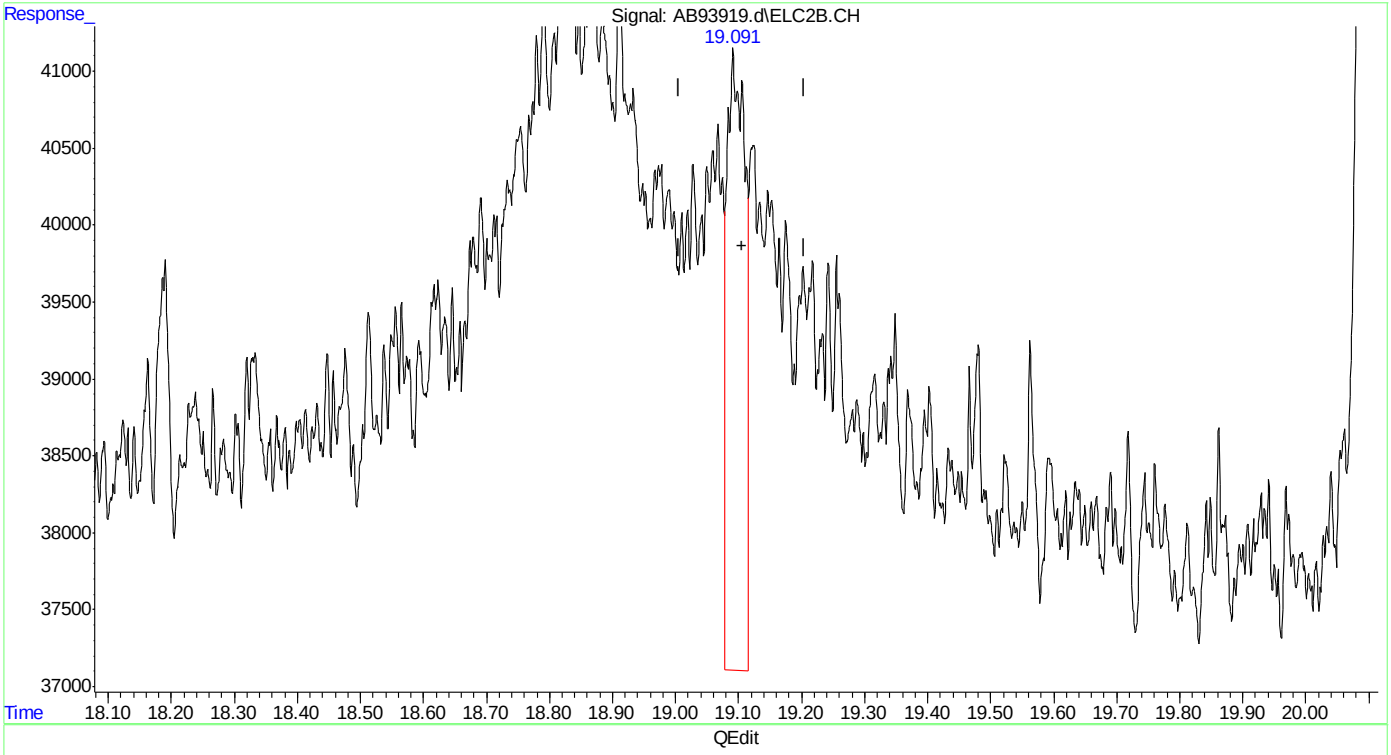
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) toluene #2
19.091min 0.070 ppb
response 80244

(+) = Expected Retention Time

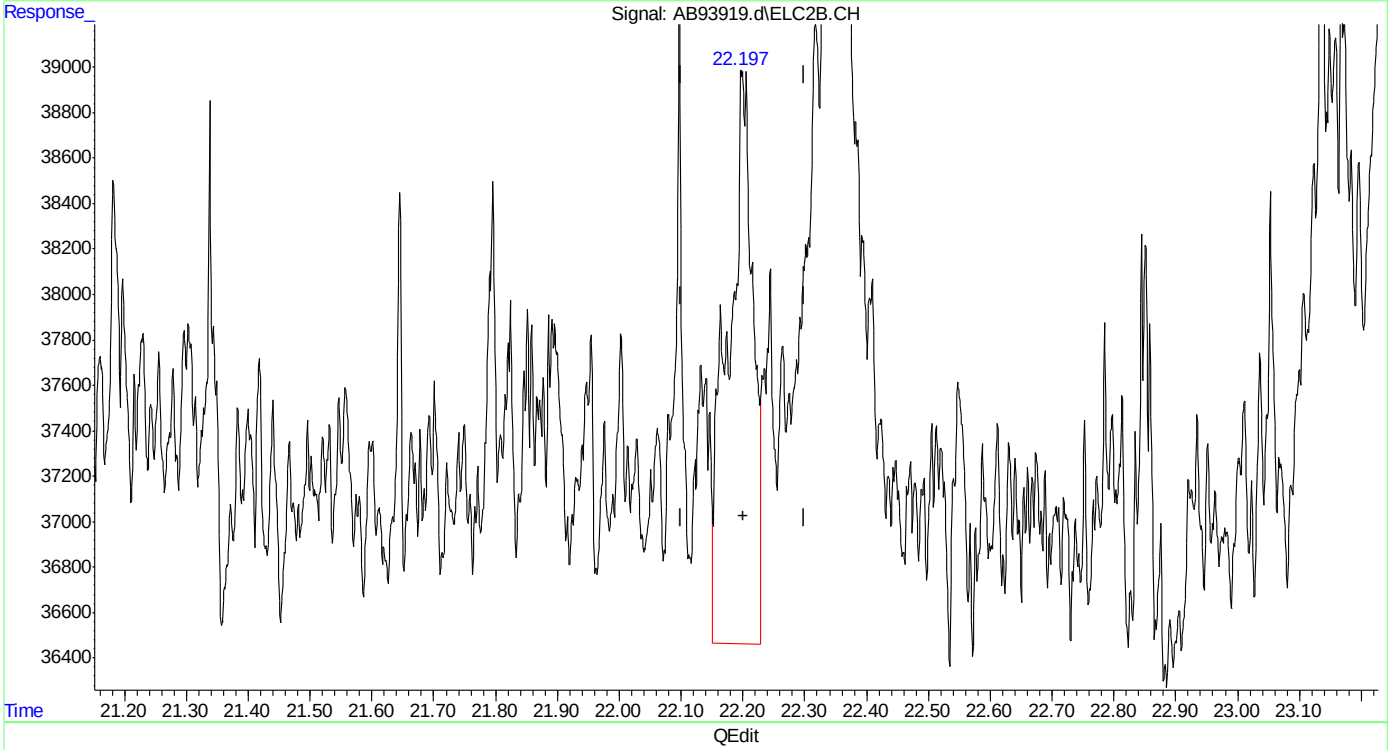
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) ethylbenzene #2
22.201min 0.076 ppb
response 70339

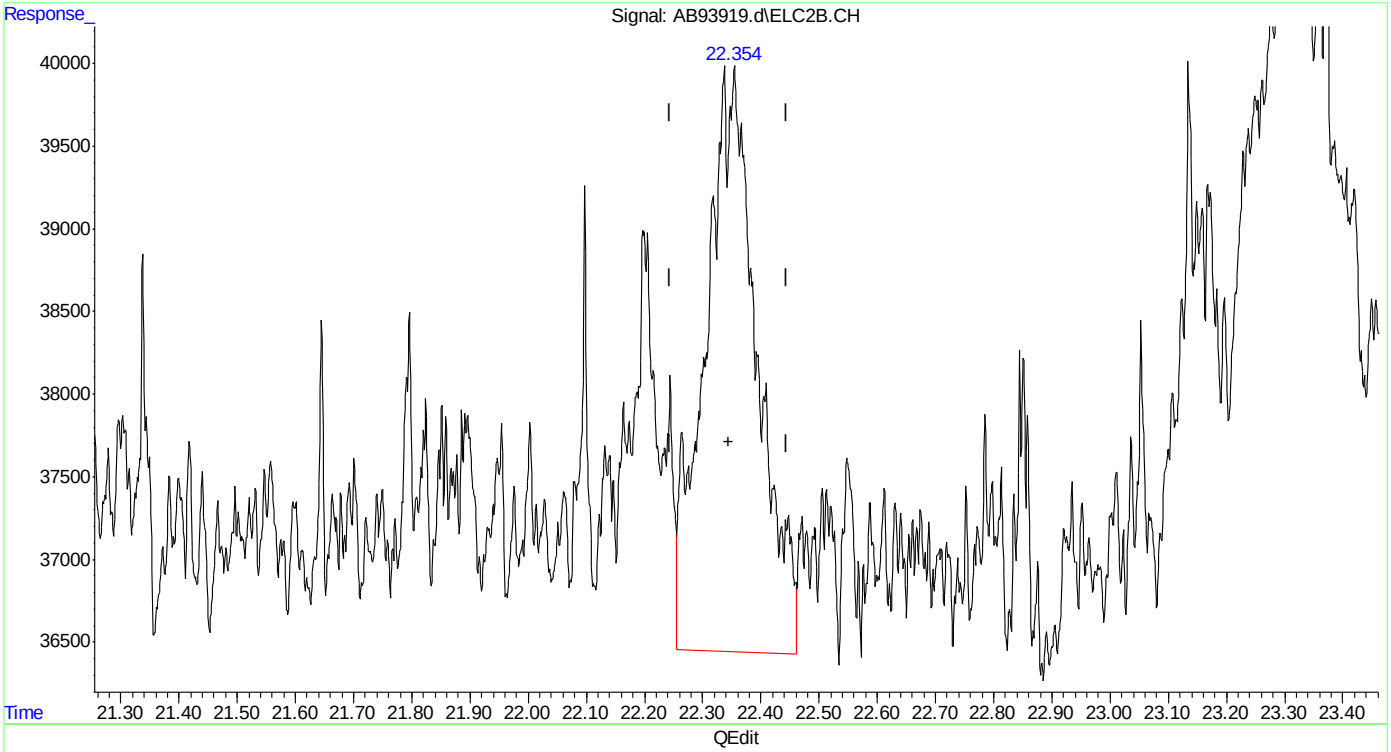
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) m,p-xylene #2
22.336min 0.210 ppb
response 222558

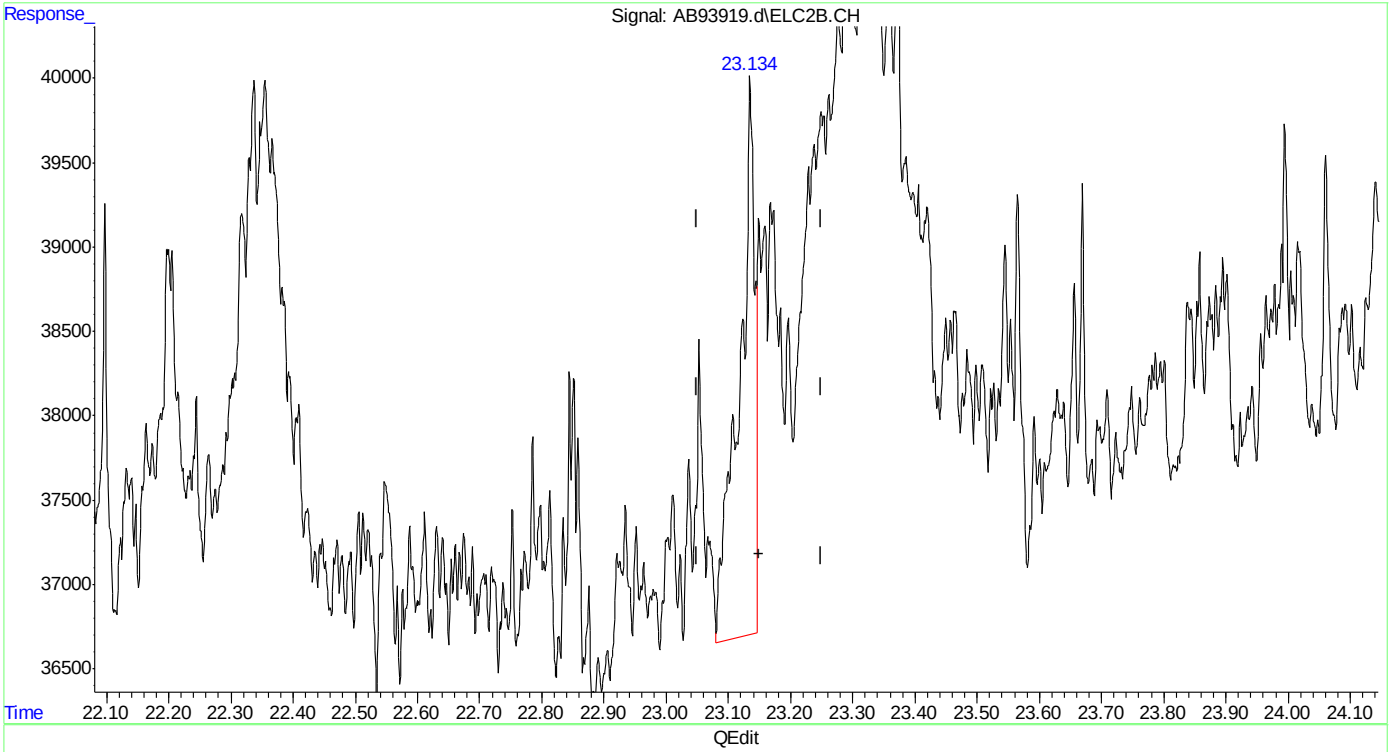
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
23.136min 0.060 ppb
response 55978

(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:24:13 2016

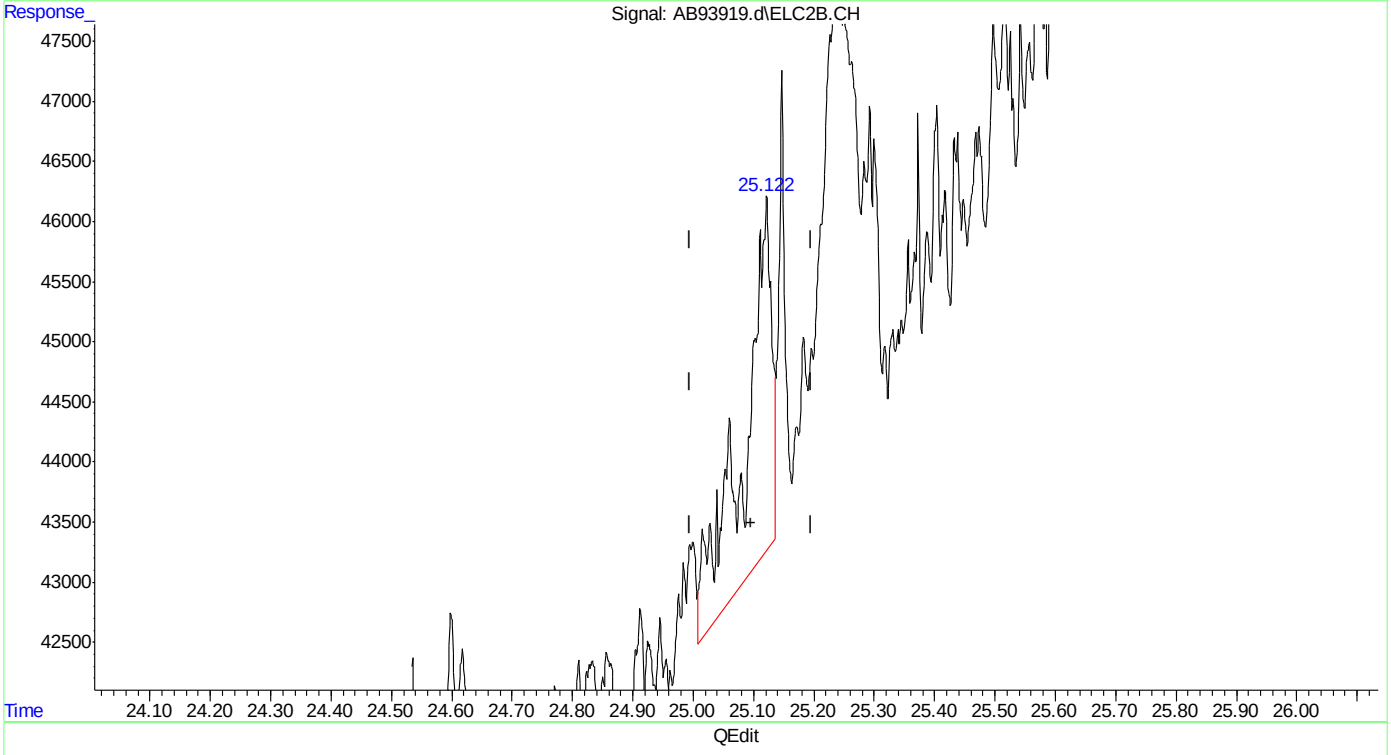
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.121min 0.096 ppb
response 92213

(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:24:18 2016

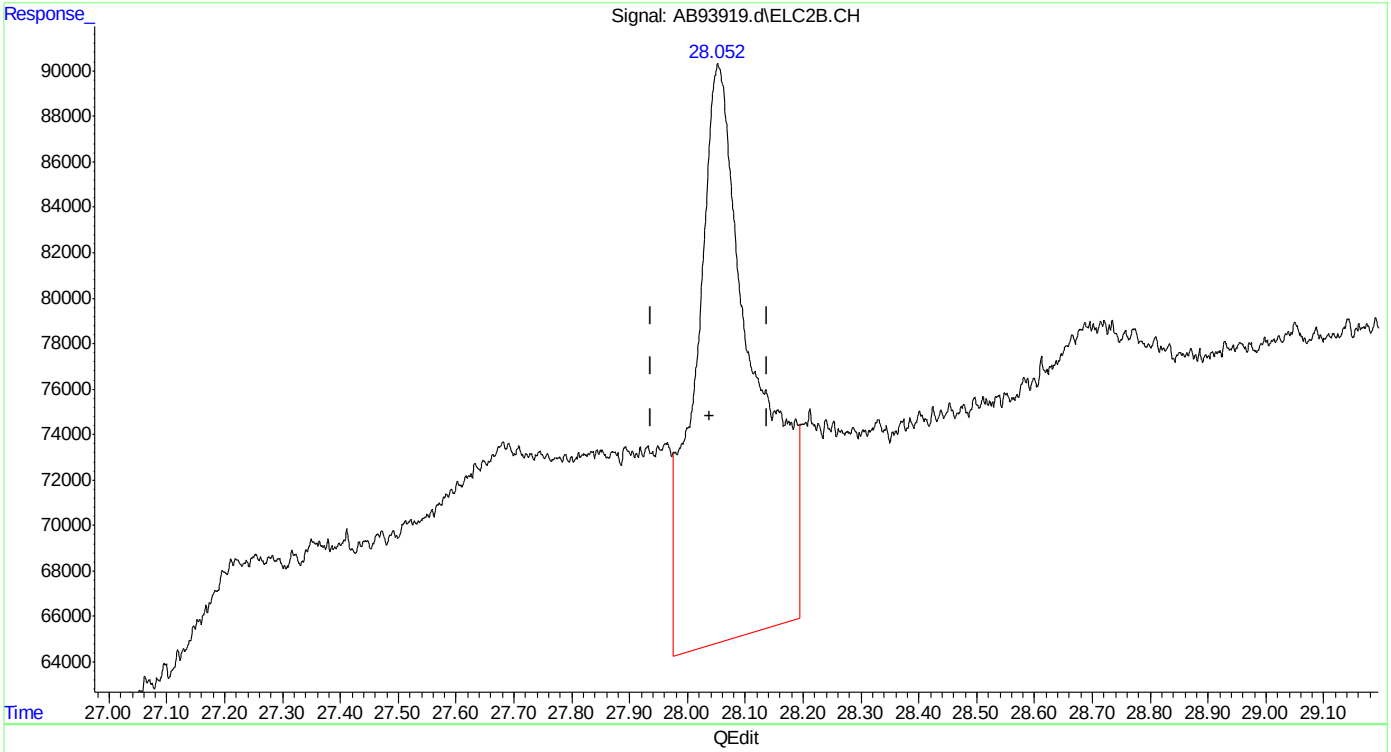
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.053min 2.492 ppb
response 1801205

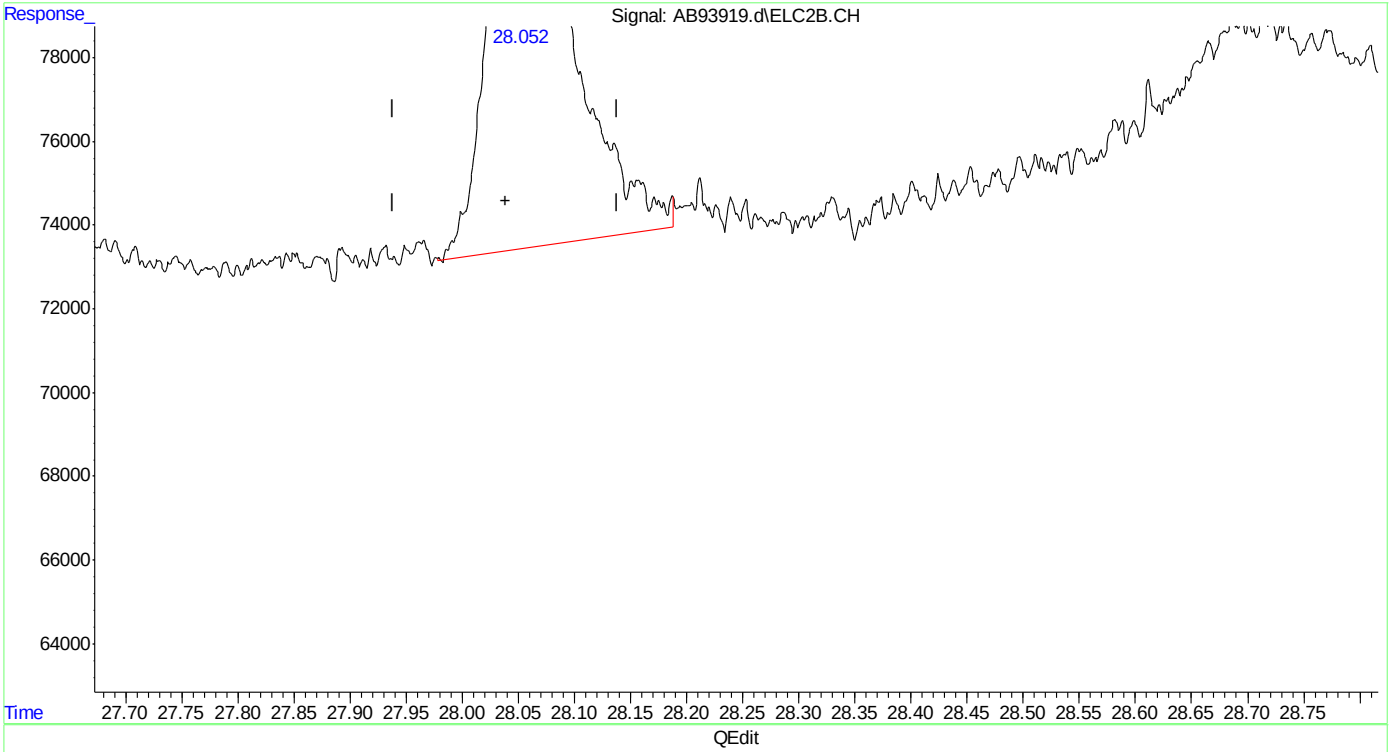
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93919.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:50:48
Operator : tonyf
Sample : mc45611-1,s,vmavph,16
Misc : gc26201,gab5160,16.182,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:49 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.052min 0.942 ppb m
response 680695

(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:24:28 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:07:48 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.142	19770204	44.918	ppb	
Spiked Amount 50.000		Recovery =	89.84%		
6) s 2,3,4-trifluorotoluene	20.198	17947253	43.779	ppb	
Spiked Amount 50.000		Recovery =	87.56%		
16) s fluorobenzene #2	15.140	37250171	44.227	ppb	
Spiked Amount 50.000		Recovery =	88.45%		
18) s 2,3,4-trifluorotoluen...	20.196	19688168	42.170	ppb	
Spiked Amount 50.000		Recovery =	84.34%		
Target Compounds					
1) h rt5.5-7	6.420	347354	0.865	ppb	m
2) h rt7/10	8.720	484908	1.208	ppb	m
3) h rt10/13	13.870	3554147	8.852	ppb	
8) h rt20/25	21.870	15593615	24.890	ppb	
24) naphthalene #2	28.050	544734	0.754	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	24859759	25.948	ppb	m

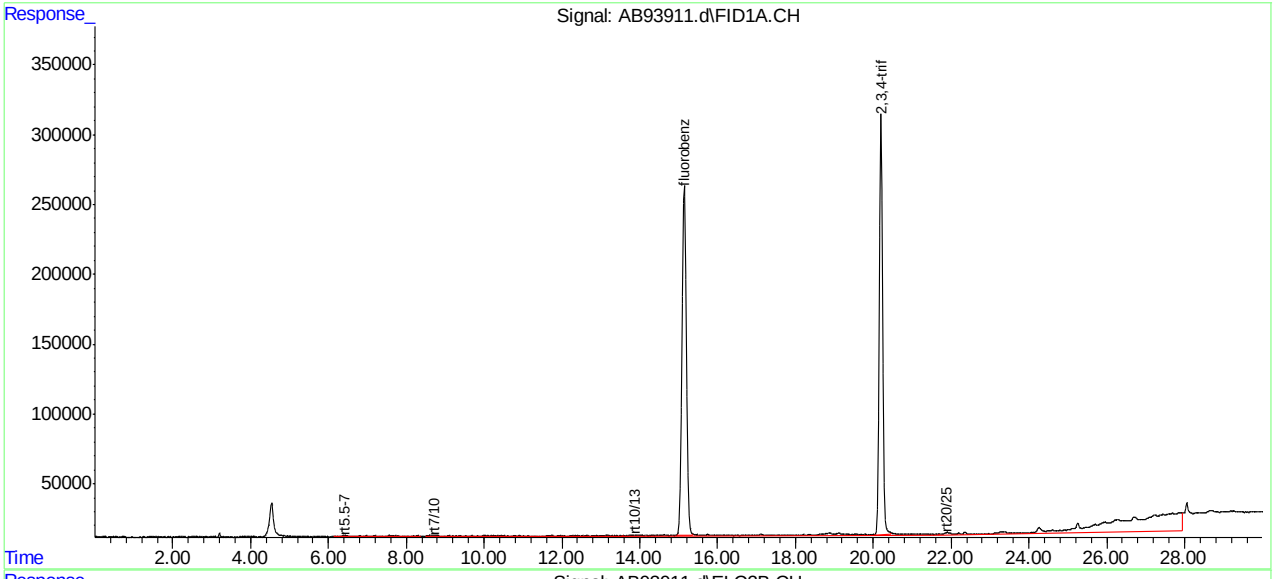
(f)=RT Delta > 1/2 Window (m)=manual int.

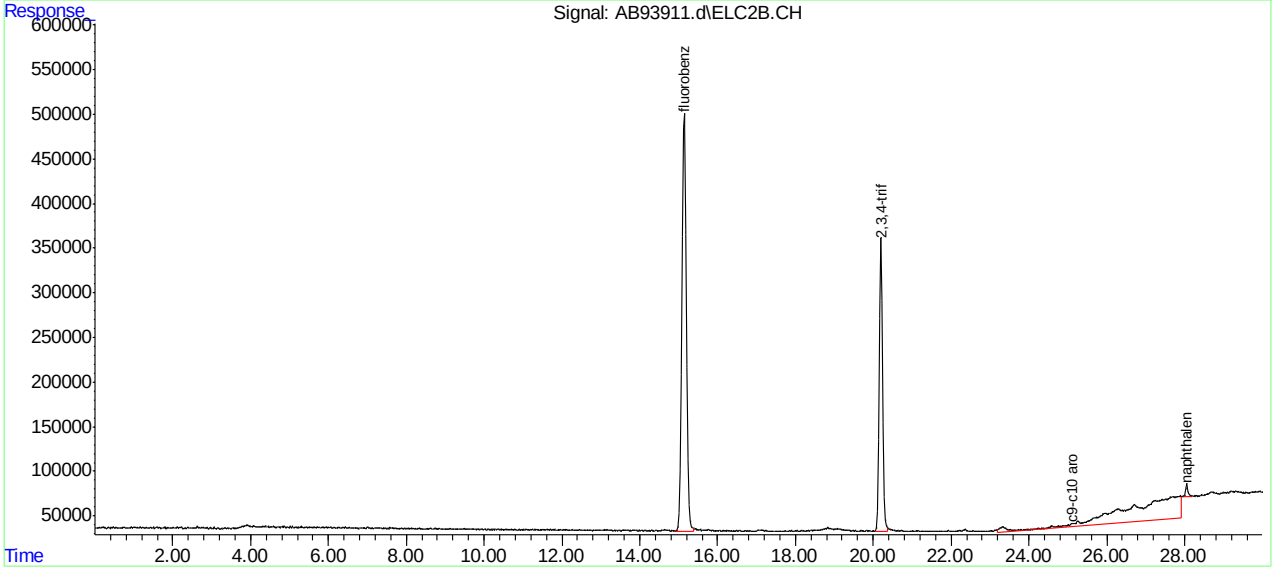
Quantitation Report (QT Reviewed)

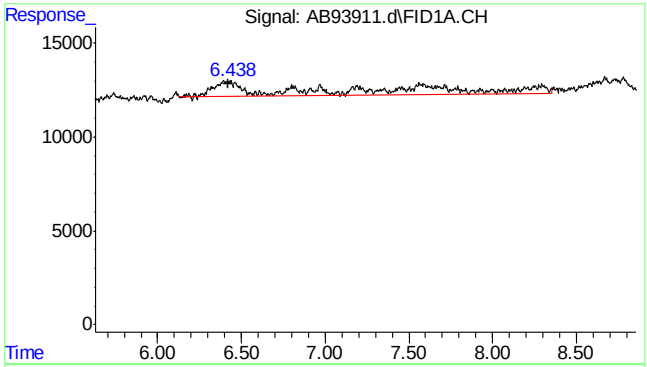
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:07:48 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

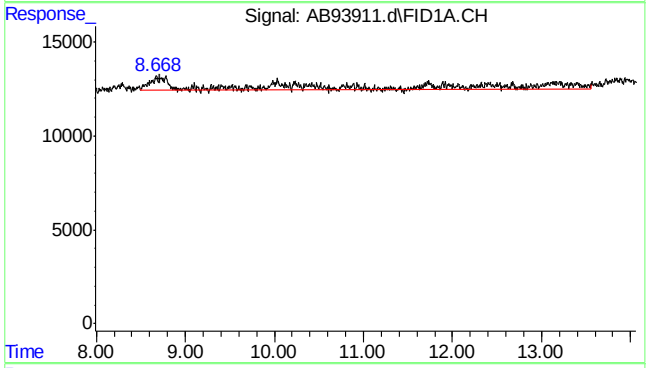






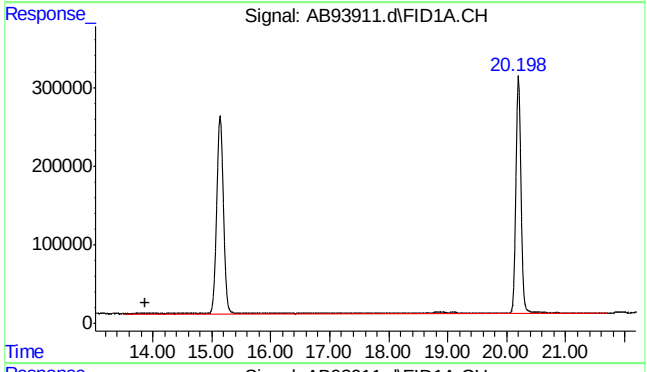
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 347354
Conc: 0.87 ppb m



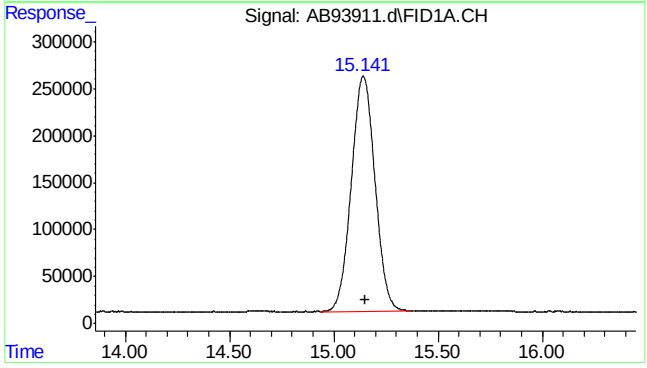
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 484908
Conc: 1.21 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3554147
Conc: 8.85 ppb



#4 fluorobenzene

R.T.: 15.142 min
Delta R.T.: -0.010 min
Response: 19770204
Conc: 44.92 ppb

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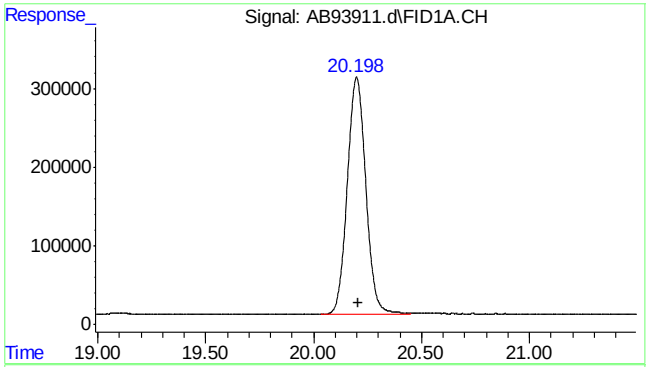
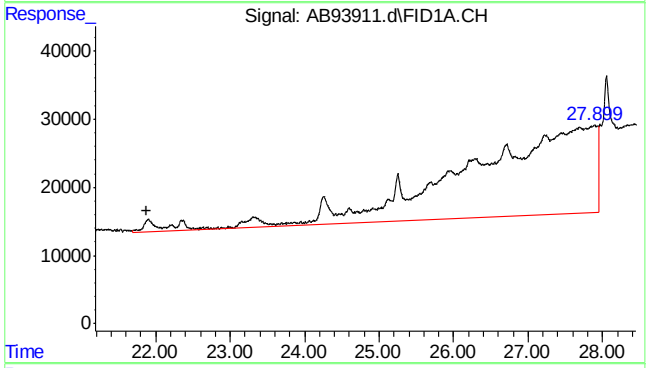


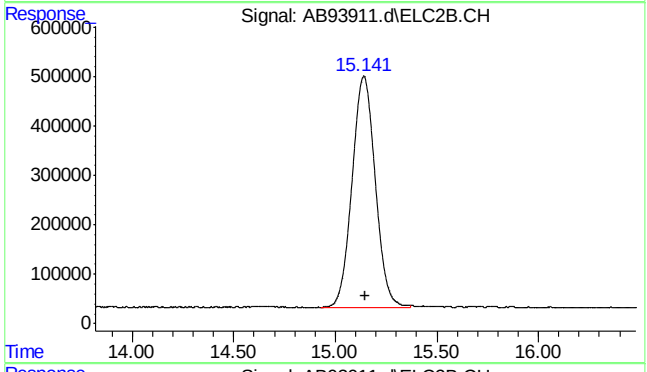
#6 2,3,4-trifluorotoluene

R.T.: 20.198 min
Delta R.T.: -0.007 min
Response: 17947253
Conc: 43.78 ppb



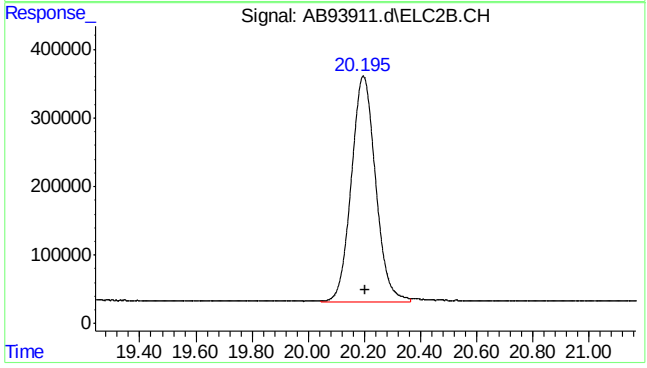
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 15593615
Conc: 24.89 ppb



#16 fluorobenzene #2

R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 37250171
Conc: 44.23 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 20.196 min
Delta R.T.: -0.007 min
Response: 19688168
Conc: 42.17 ppb

7.1.2

7

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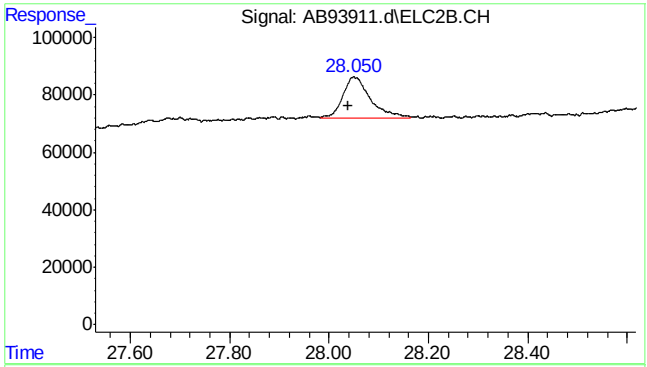
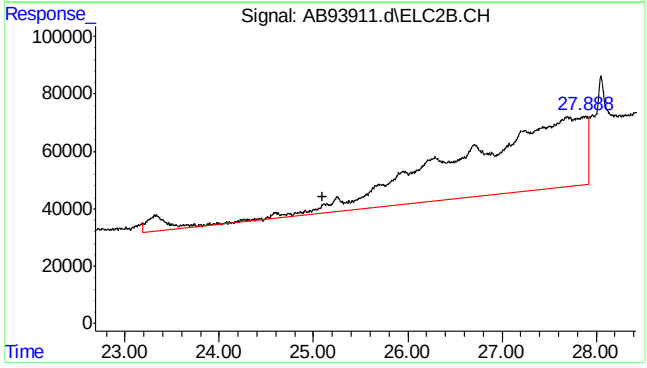


#24 naphthalene #2

```
      R.T.:   28.050 min
Delta R.T.:    0.012 min
  Response:    544734
      Conc:   0.75 ppb m
```



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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  24859759
      Conc:  25.95 ppb m
```

7.1.2

7

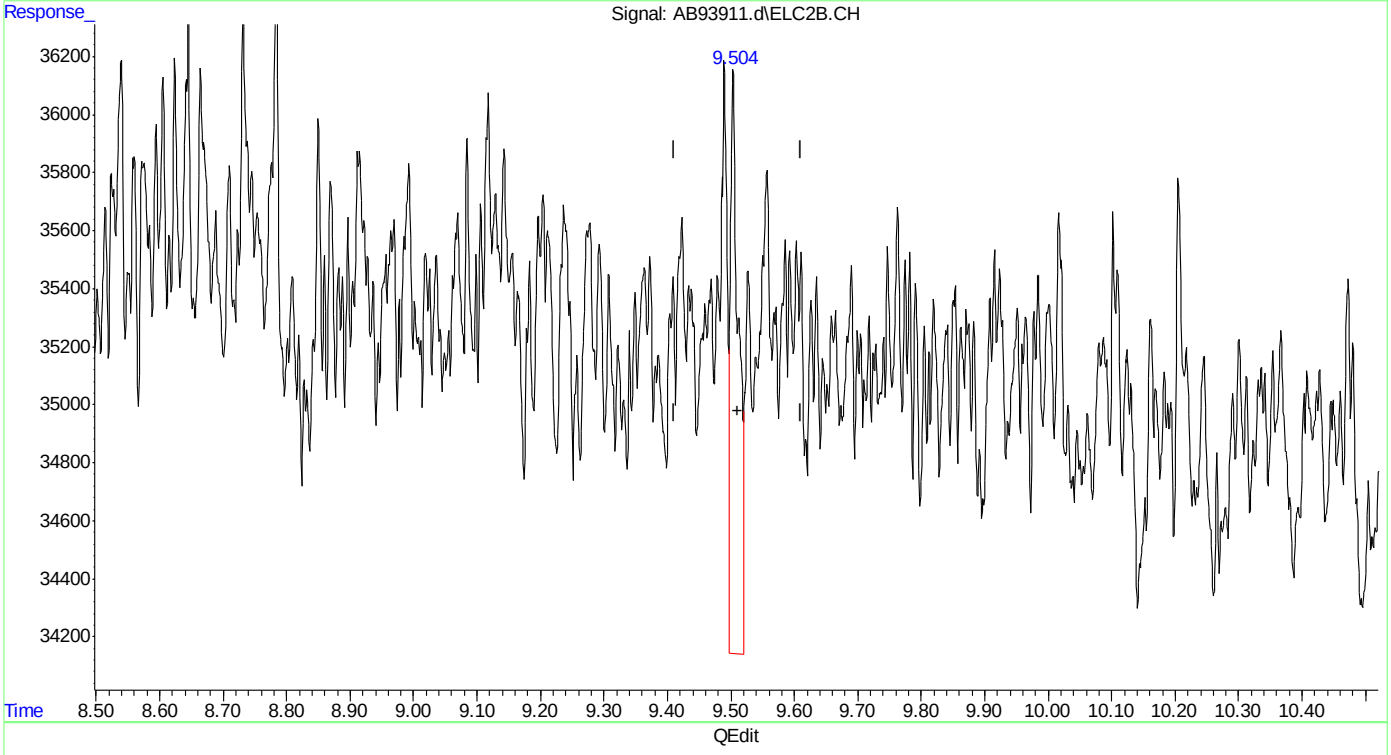
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.504min 0.037 ppb
response 18756

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:06:59 2016

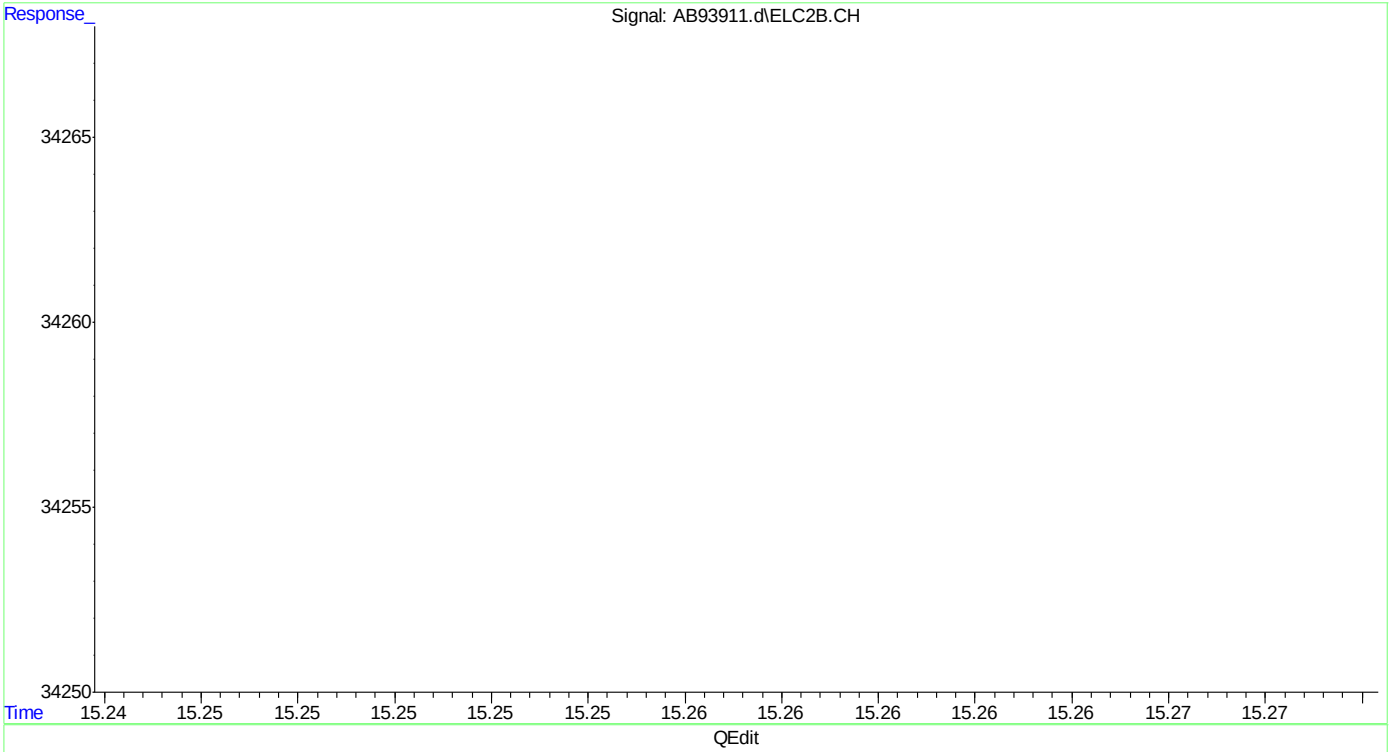
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 16:30:52
Operator  : tonyf
Sample    : mc45611-2,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2

14.644min 0.020 ppb

response 25885

(+) = Expected Retention Time

ab160429vph.M Mon May 02 07:07:04 2016

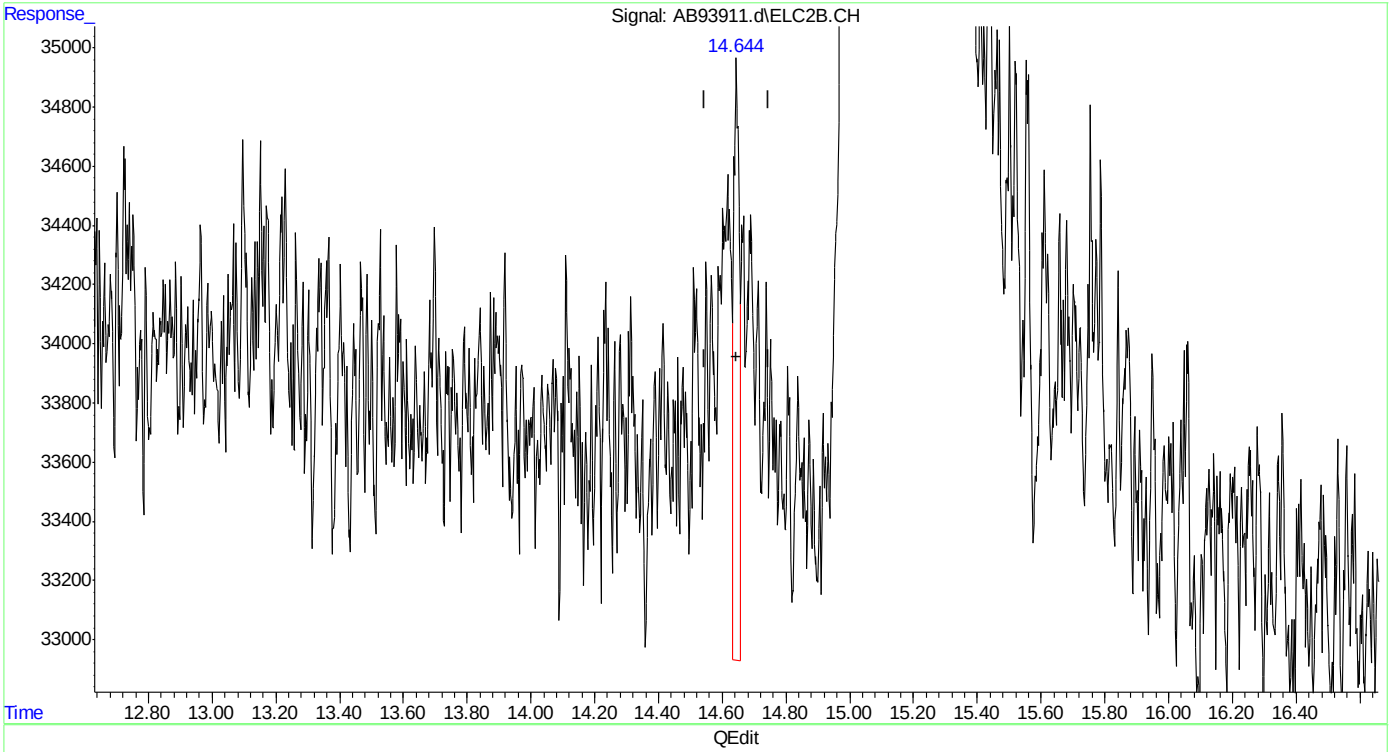
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2
14.644min 0.020 ppb
response 25885

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:06 2016

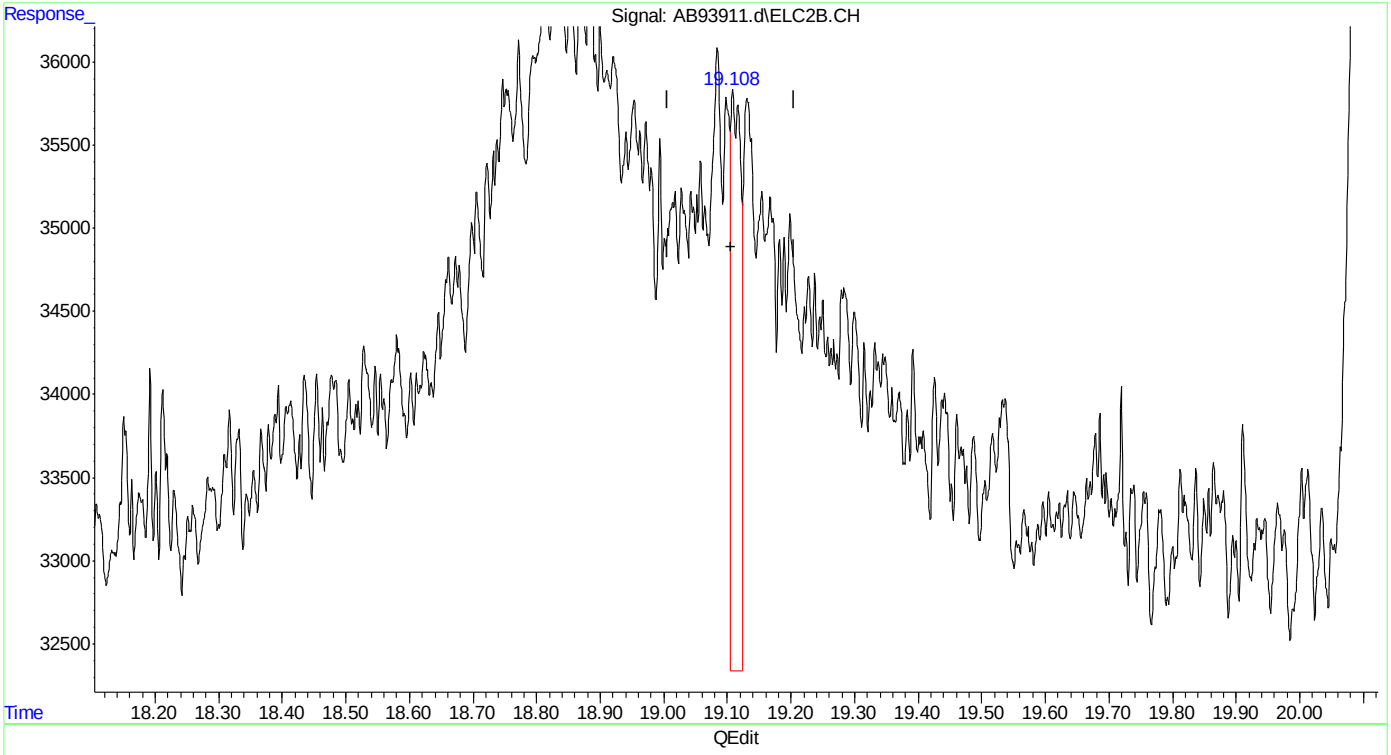
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) toluene #2
19.108min 0.034 ppb
response 38420

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:10 2016

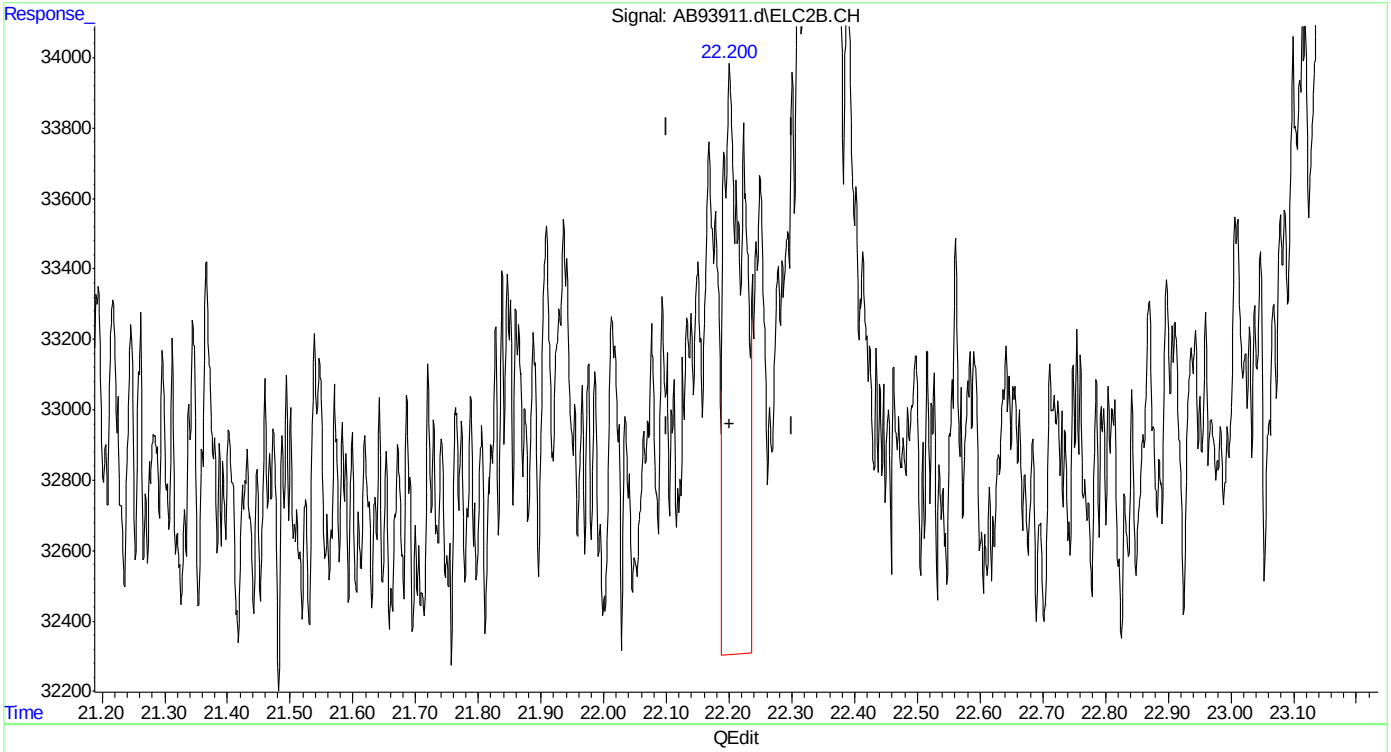
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) ethylbenzene #2
22.201min 0.039 ppb
response 36243

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:14 2016

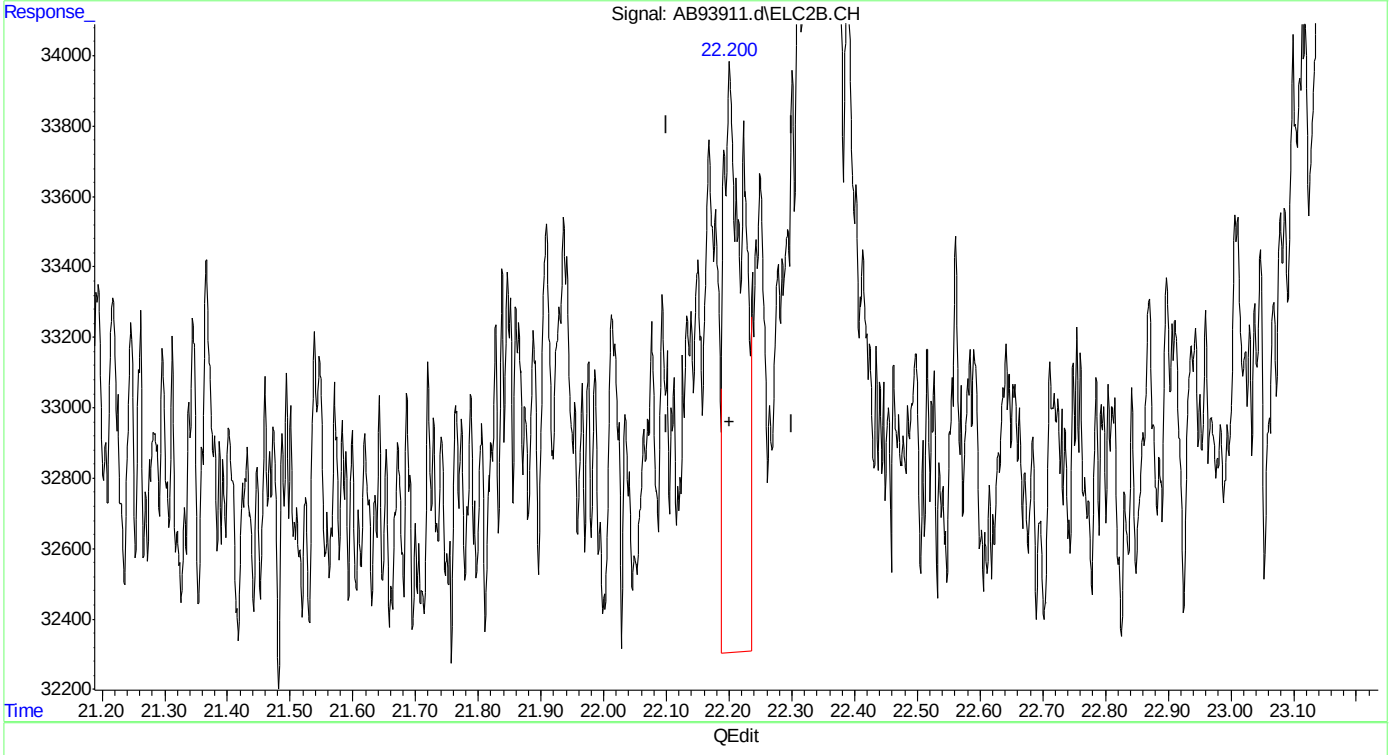
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) ethylbenzene #2
22.201min 0.039 ppb
response 36243

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:16 2016

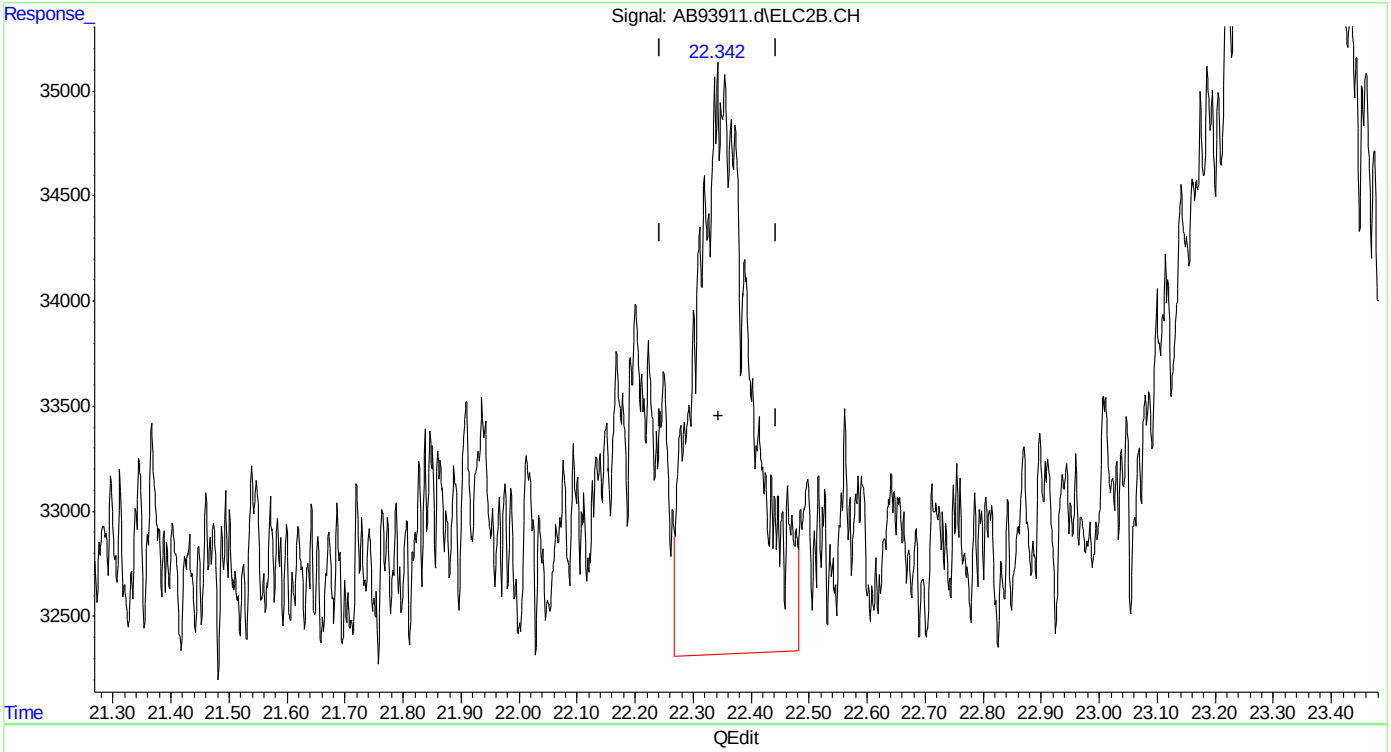
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) m,p-xylene #2
22.341min 0.170 ppb
response 180524

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:19 2016

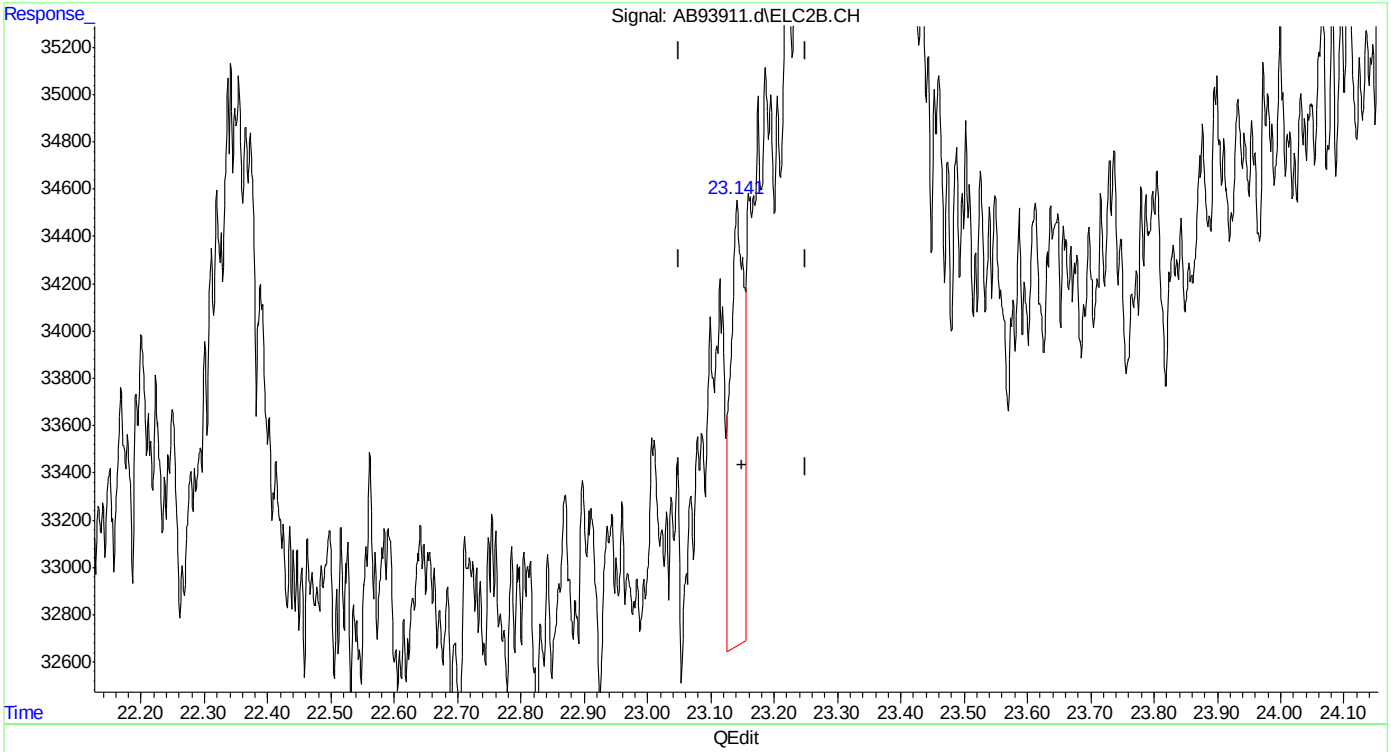
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
23.142min 0.028 ppb
response 25722

(+) = Expected Retention Time

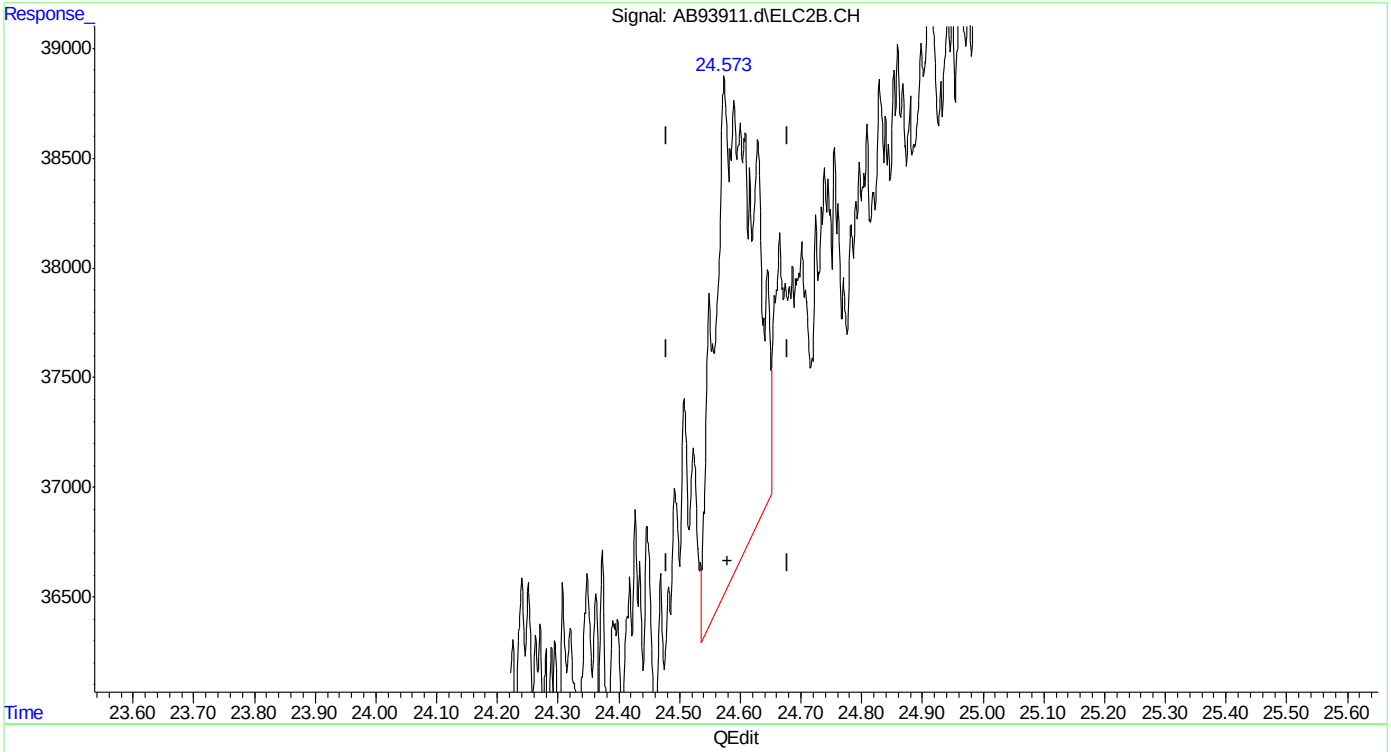
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(22) 1,3,5-trimethylbenzene #2 (t)
24.574min 0.080 ppb
response 104070

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:26 2016

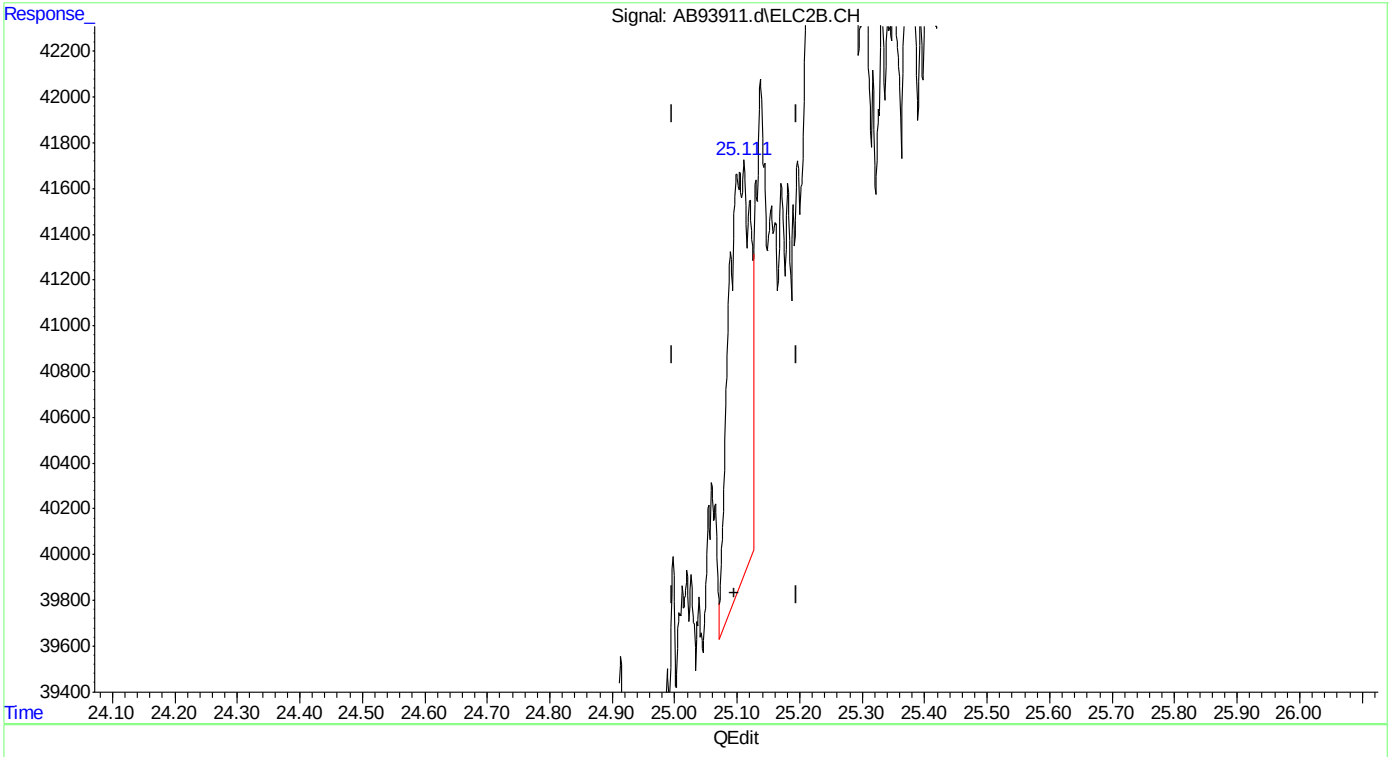
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.103min 0.046 ppb
response 44303

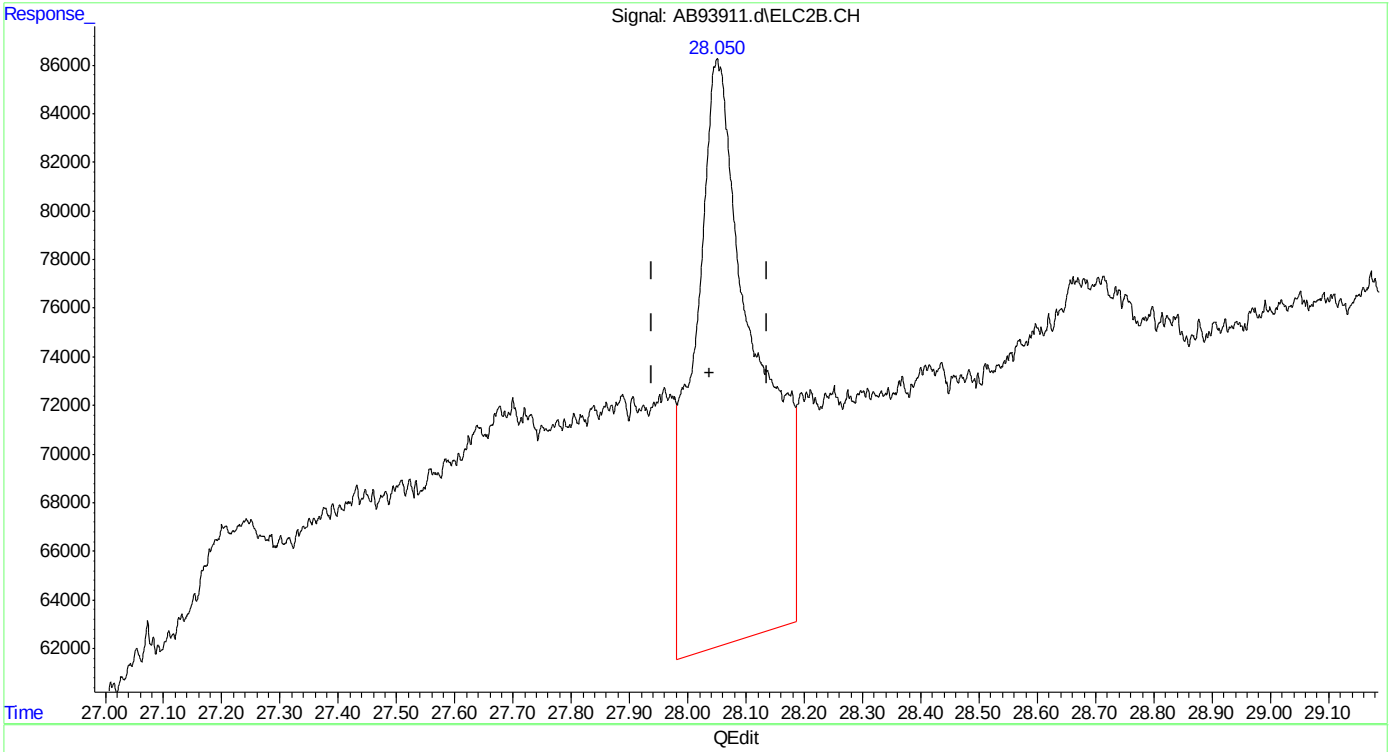
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.050min 2.407 ppb
response 1739866

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93911.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 16:30:52
Operator : tonyf
Sample : mc45611-2,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:37 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(24) naphthalene #2
28.050min 0.754 ppb m
response 544734

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:07:44 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:15:24 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.140	19525251	44.362	ppb	
Spiked Amount 50.000		Recovery =	88.72%		
6) s 2,3,4-trifluorotoluene	20.196	17851405	43.545	ppb	
Spiked Amount 50.000		Recovery =	87.09%		
16) s fluorobenzene #2	15.137	37002230	43.933	ppb	
Spiked Amount 50.000		Recovery =	87.87%		
18) s 2,3,4-trifluorotoluen...	20.195	19580667	41.940	ppb	
Spiked Amount 50.000		Recovery =	83.88%		
Target Compounds					
1) h rt5.5-7	6.420	212281	0.529	ppb	m
2) h rt7/10	8.720	425990	1.061	ppb	m
3) h rt10/13	13.870	1906782	4.749	ppb	m
8) h rt20/25	21.870	16848584	26.893	ppb	
24) naphthalene #2	28.050	579928	0.802	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	23122600	24.135	ppb	m

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

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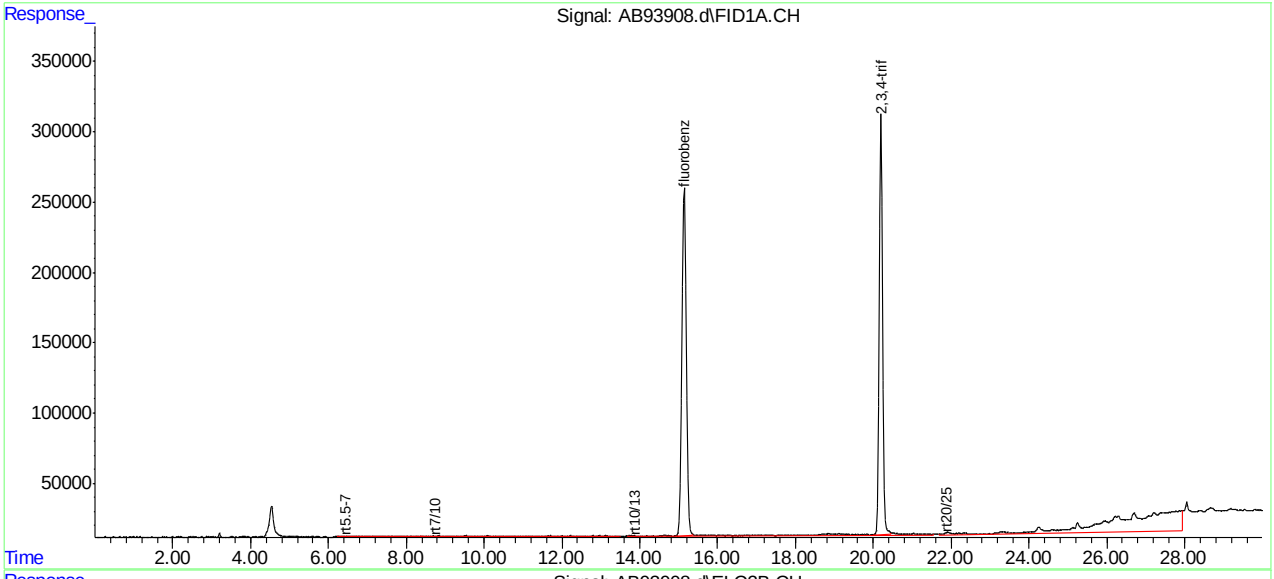
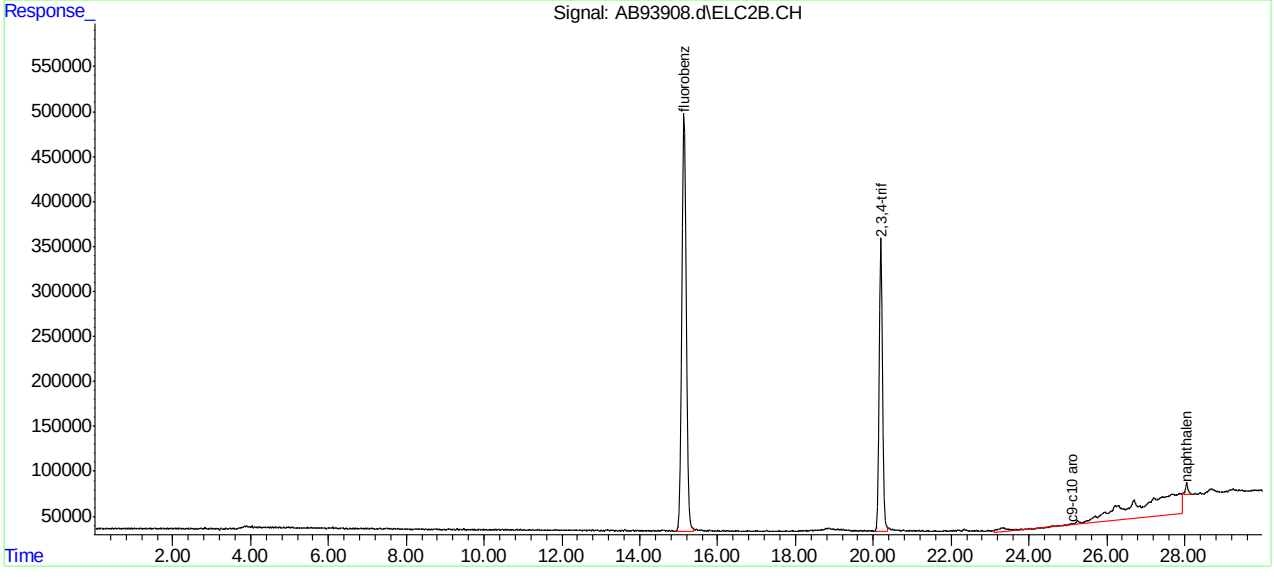
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

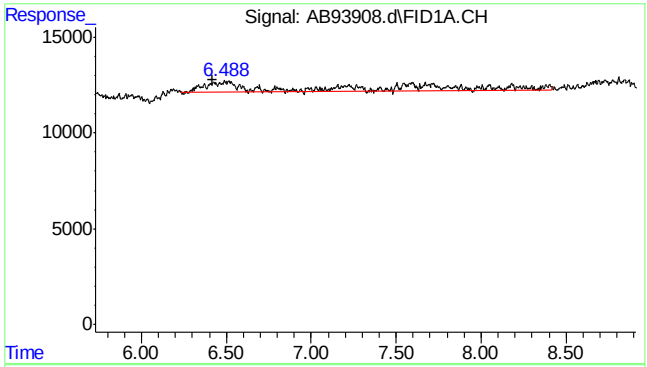
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:15:24 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



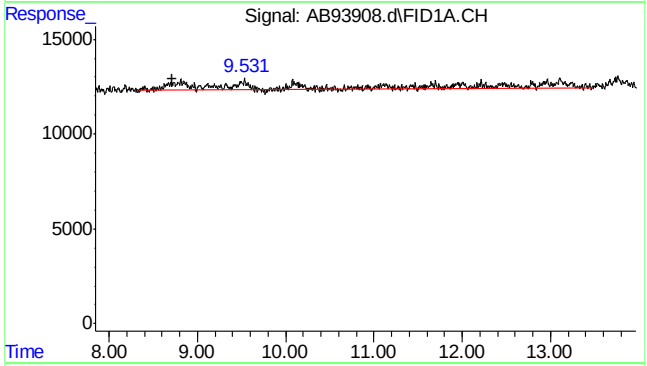


ab160429vph.M Mon May 02 07:13:59 2016 Page: 2



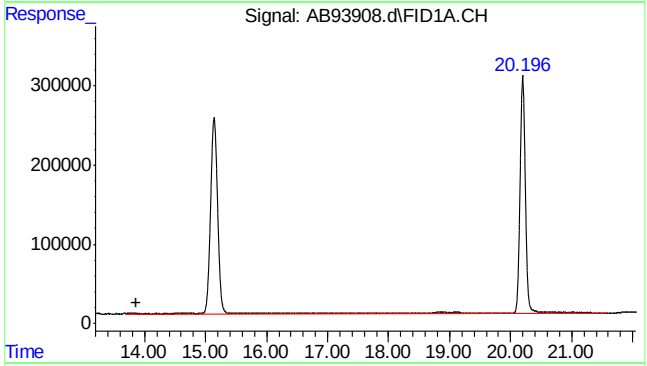
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 212281
Conc: 0.53 ppb m



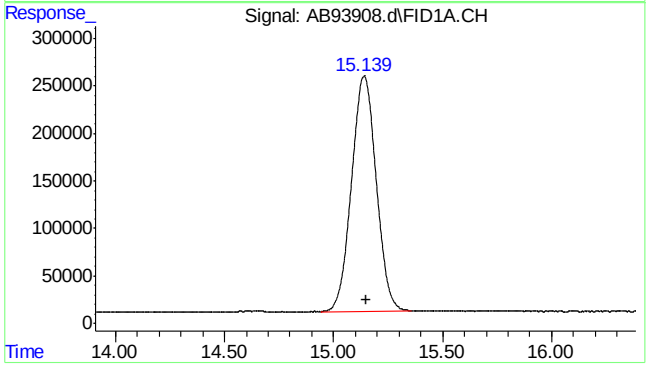
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 425990
Conc: 1.06 ppb m



#3 rt10/13

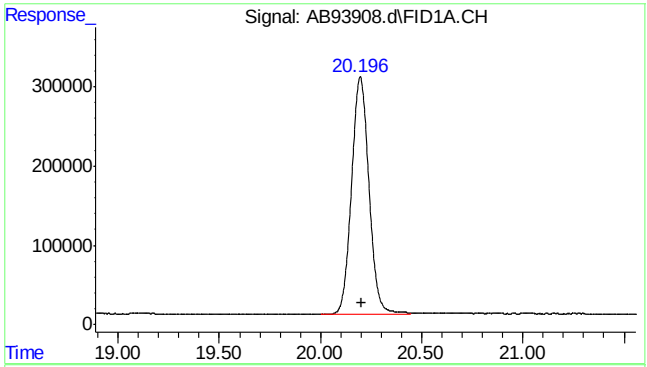
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 1906782
Conc: 4.75 ppb m



#4 fluorobenzene

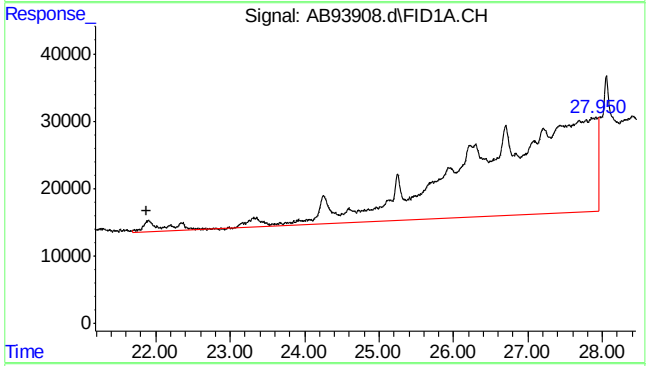
R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 19525251
Conc: 44.36 ppb

SGS ACCUTEST MC45611



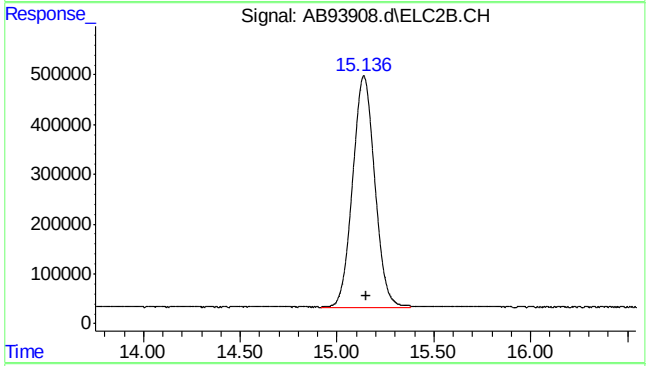
#6 2,3,4-trifluorotoluene

R.T.: 20.196 min
Delta R.T.: -0.009 min
Response: 17851405
Conc: 43.55 ppb



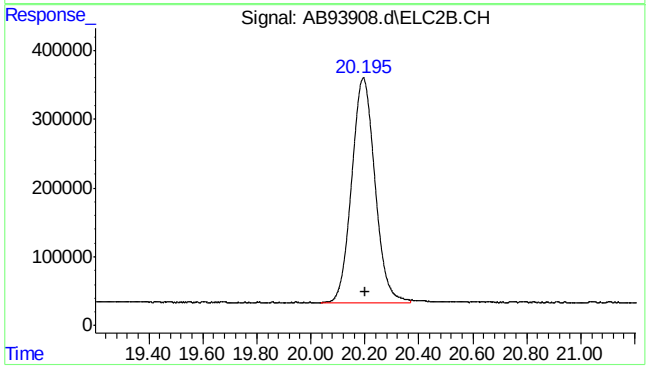
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 16848584
Conc: 26.89 ppb



#16 fluorobenzene #2

R.T.: 15.137 min
Delta R.T.: -0.011 min
Response: 37002230
Conc: 43.93 ppb



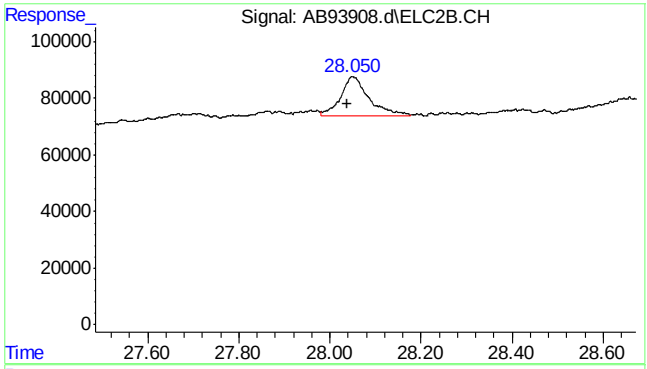
#18 2,3,4-trifluorotoluene #2

R.T.: 20.195 min
Delta R.T.: -0.008 min
Response: 19580667
Conc: 41.94 ppb

7.2.1

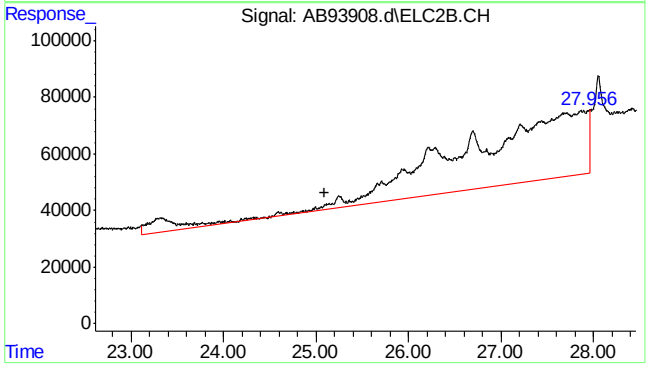
7

SGS ACCUTEST MC45611



#24 naphthalene #2

```
      R.T.:   28.050 min
Delta R.T.:    0.012 min
  Response:    579928
      Conc:   0.80 ppb m
```



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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  23122600
      Conc:  24.14 ppb m
```

7.2.1

7

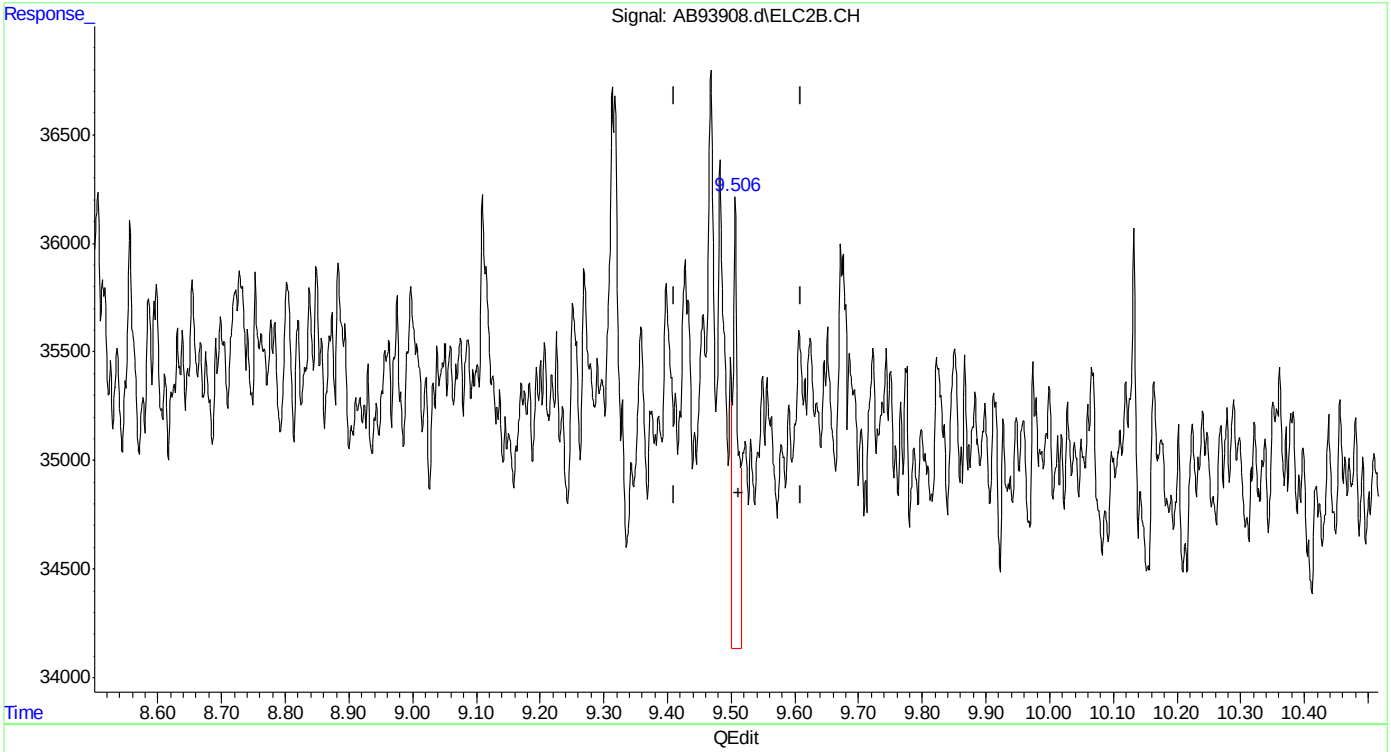
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.506min 0.023 ppb
response 11620

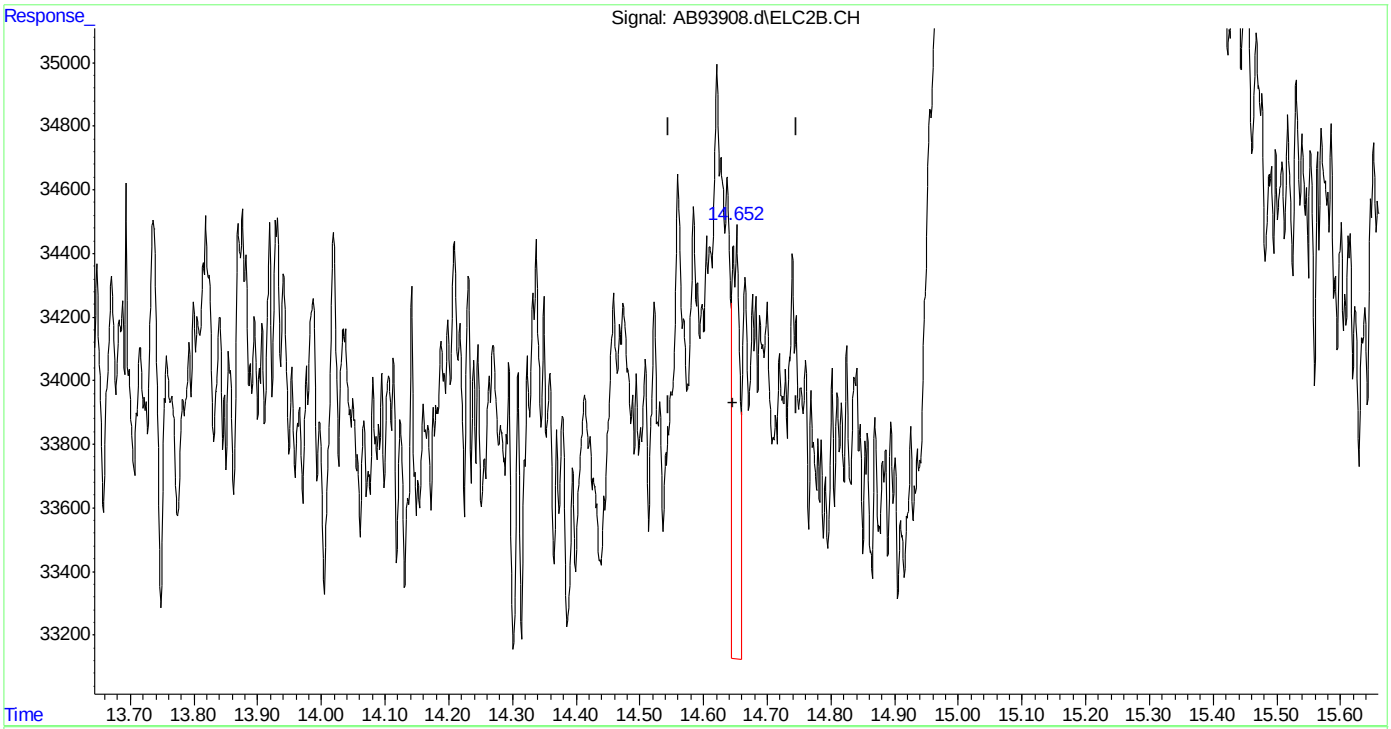
(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 15:14:38 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 14:34:52
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2

14.652min 0.009 ppb

response 11069

(+) = Expected Retention Time

ab160429vph.M Fri Apr 29 15:14:41 2016

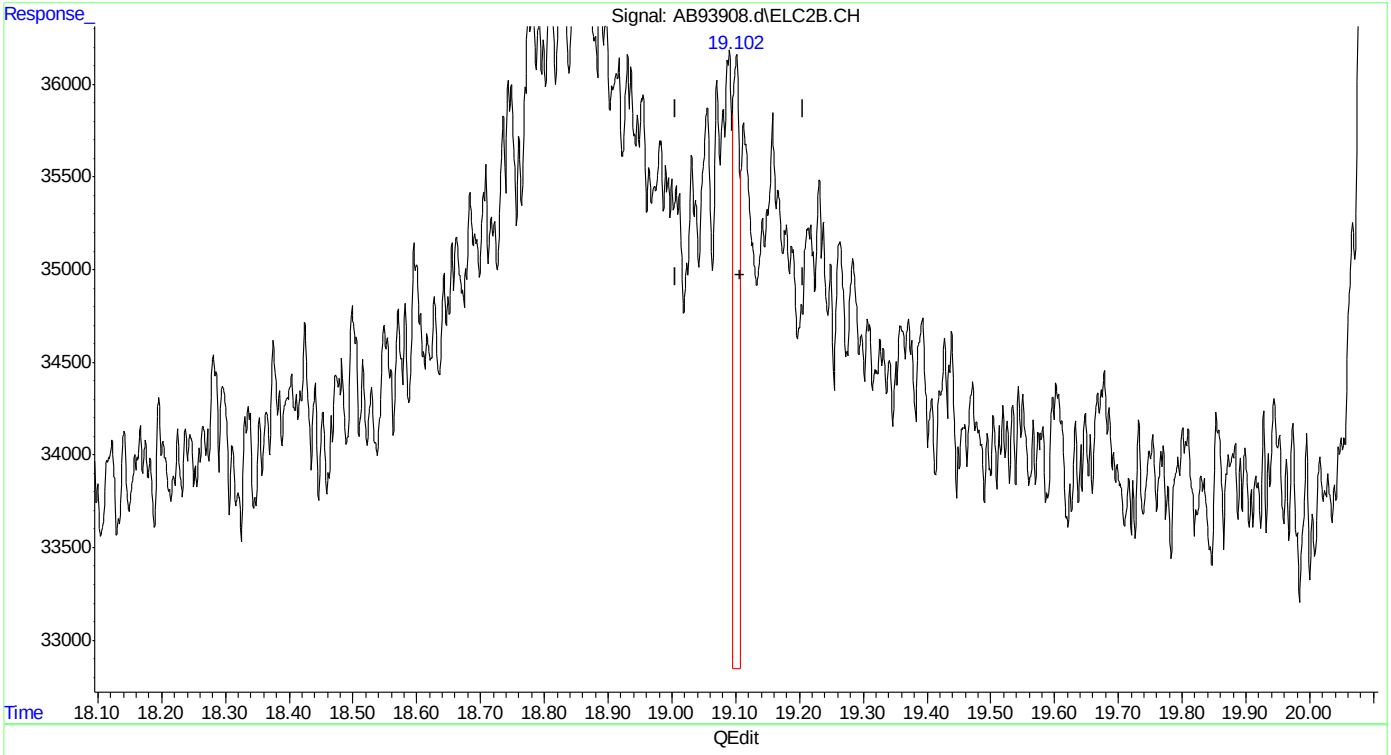
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) toluene #2
19.101min 0.021 ppb
response 24554

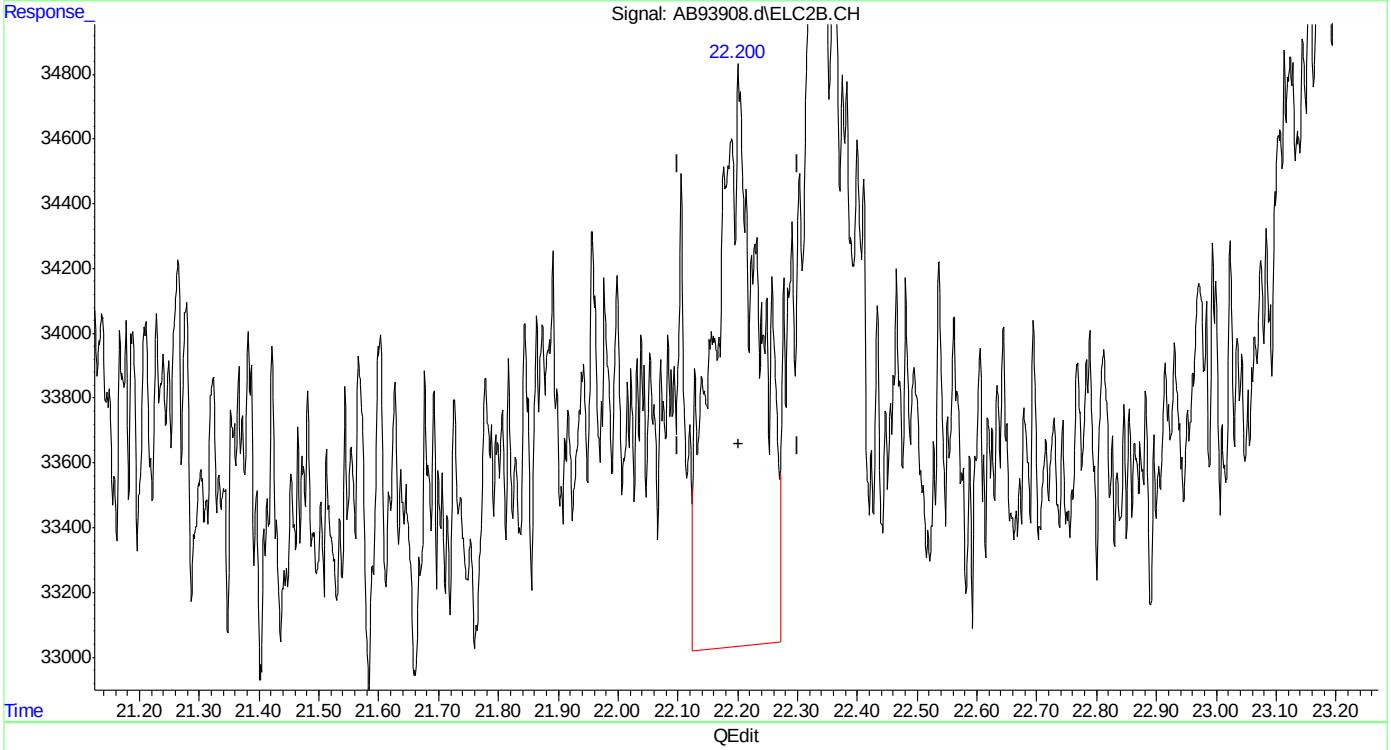
(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 15:14:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) ethylbenzene #2
22.203min 0.101 ppb
response 93724

(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 15:14:49 2016

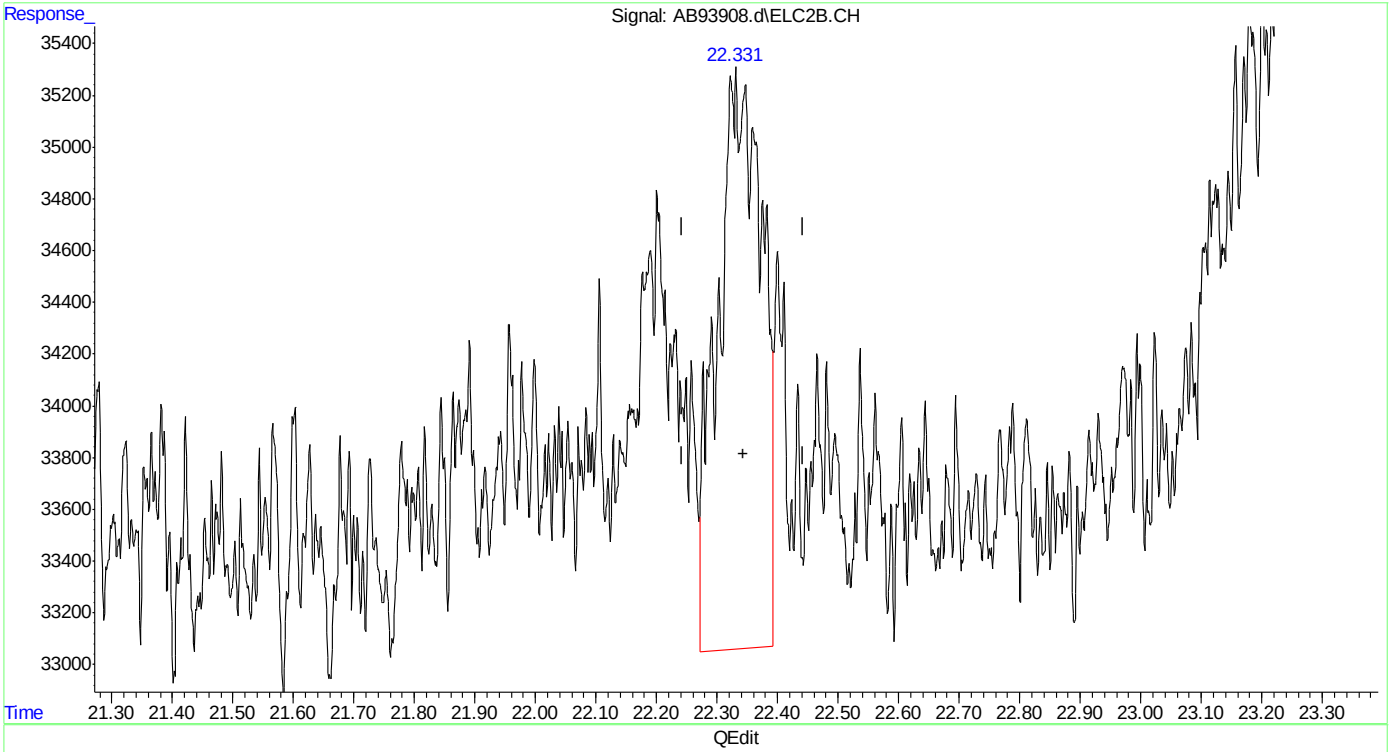
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) m,p-xylene #2
22.325min 0.108 ppb
response 114257

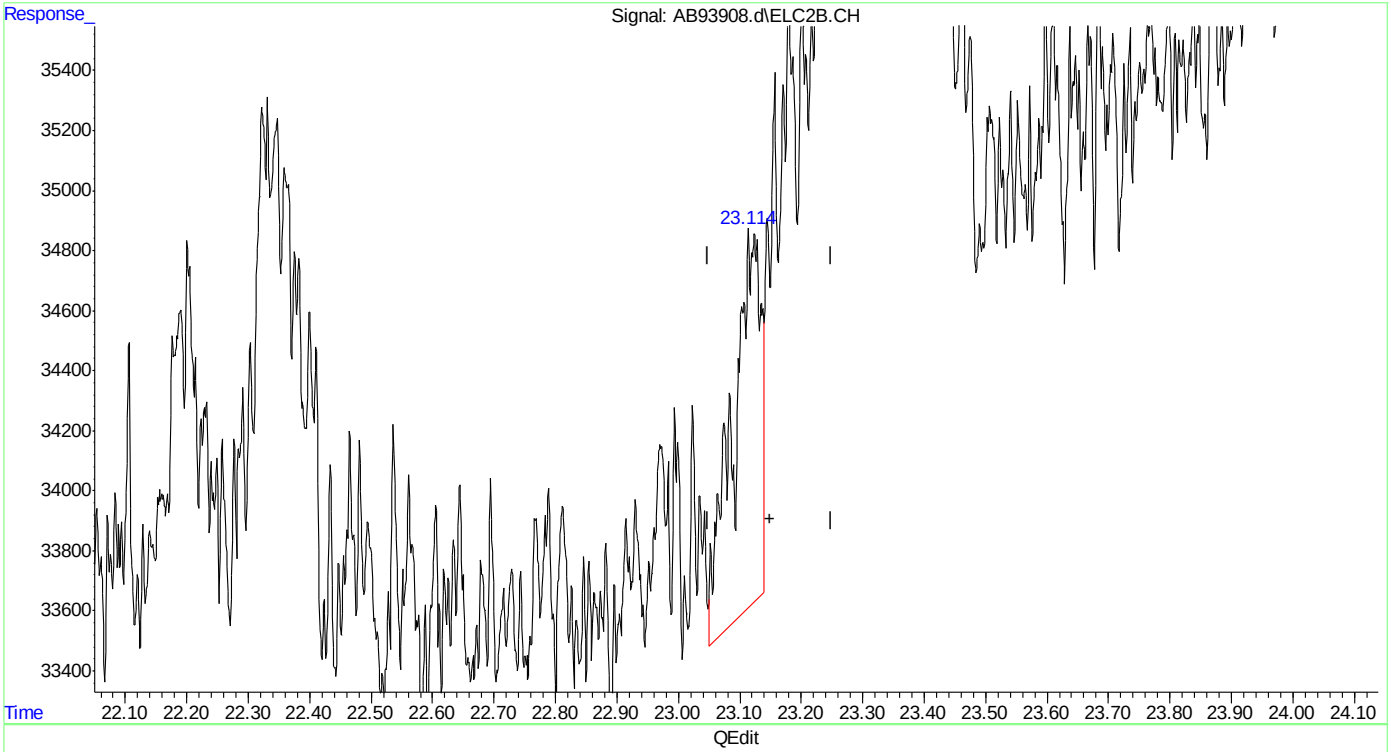
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
23.124min 0.042 ppb
response 39576

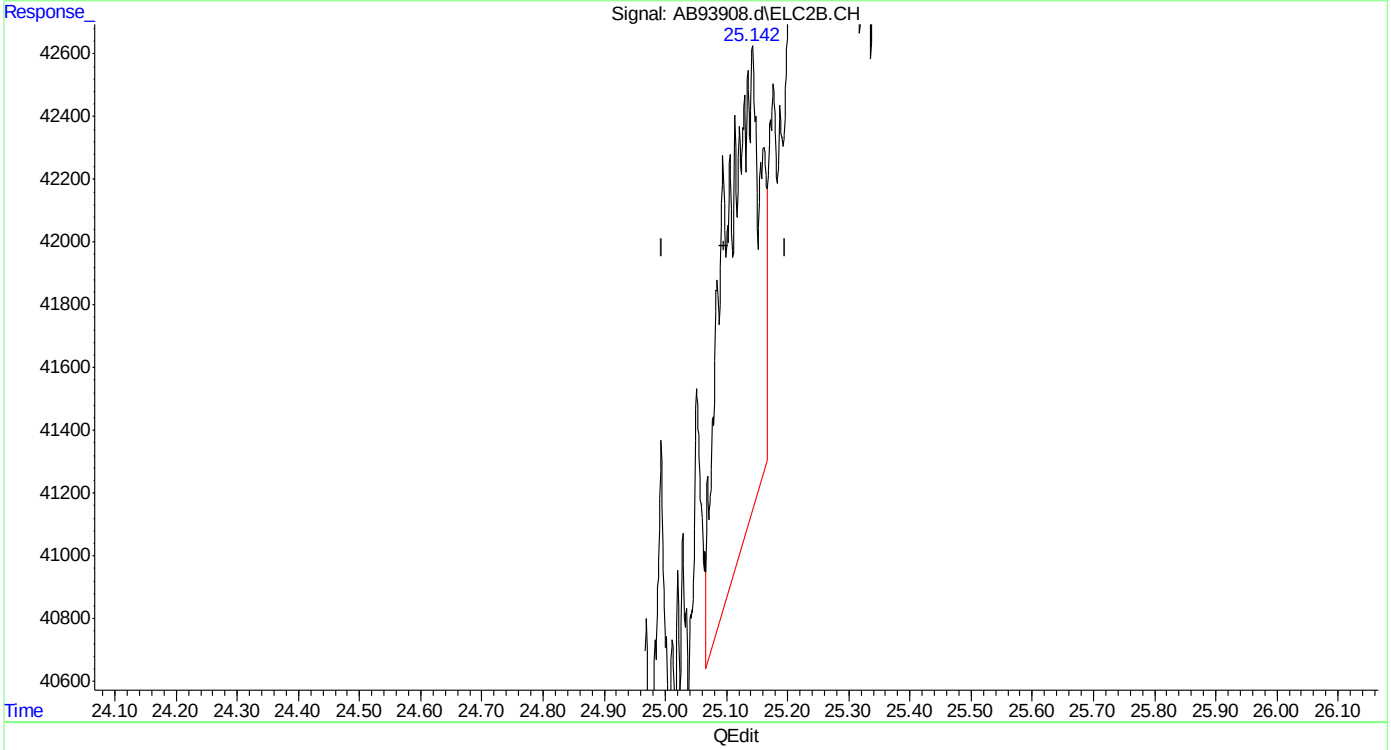
(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 15:15:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 14:34:52
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.142min 0.068 ppb
response 65323

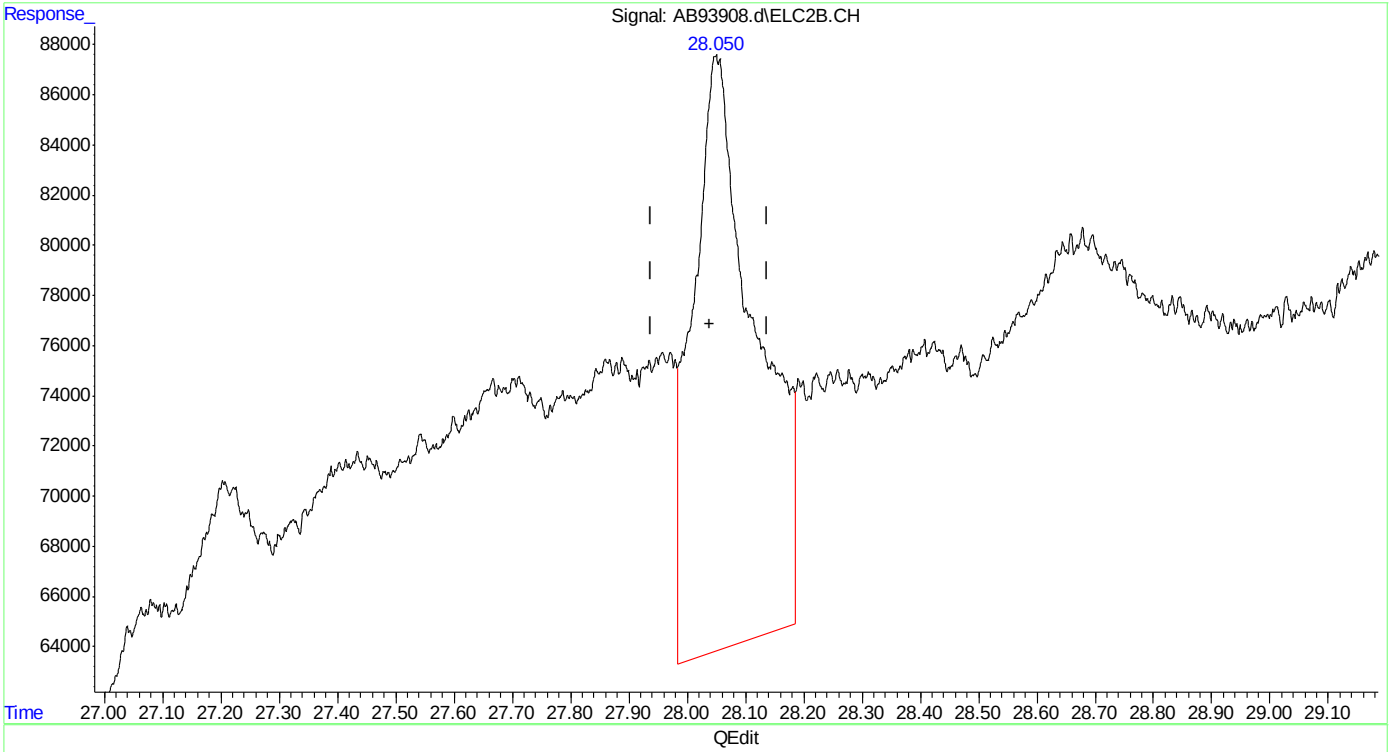
(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 15:15:09 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 14:34:52
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.050min 2.472 ppb

response 1787176

(+) = Expected Retention Time

ab160429vph.M Fri Apr 29 15:15:12 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93908.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 14:34:52
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 15:14:13 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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

(24) naphthalene #2

28.050min 0.802 ppb m

response 579928

(+) = Expected Retention Time

ab160429vph.M Fri Apr 29 15:15:20 2016

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:57:05
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26201,gab5160,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:58:59 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.139	27614993	62.742	ppb	
Spiked Amount 50.000		Recovery = 125.48%			
6) s 2,3,4-trifluorotoluene	20.195	24567342	59.927	ppb	
Spiked Amount 50.000		Recovery = 119.85%			
16) s fluorobenzene #2	15.138	52772062	62.656	ppb	
Spiked Amount 50.000		Recovery = 125.31%			
18) s 2,3,4-trifluorotoluen...	20.193	27613600	59.145	ppb	
Spiked Amount 50.000		Recovery = 118.29%			
Target Compounds					
1) h rt5.5-7	6.420	516498	1.286	ppb	m
2) h rt7/10	8.720	405555	1.010	ppb	m
3) h rt10/13	13.870	1927977	4.802	ppb	m
8) h rt20/25	21.870	13694430	21.859	ppb	
24) naphthalene #2	28.051	518994	0.718	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	25169100	26.271	ppb	m

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

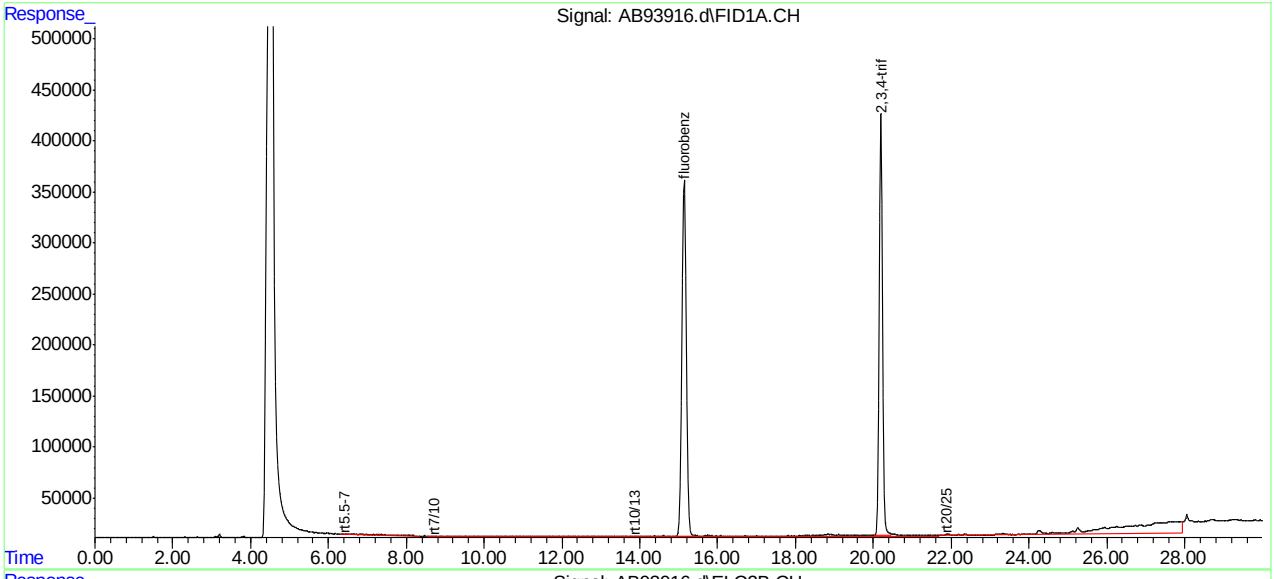
SGS ACCUTEST MC45611

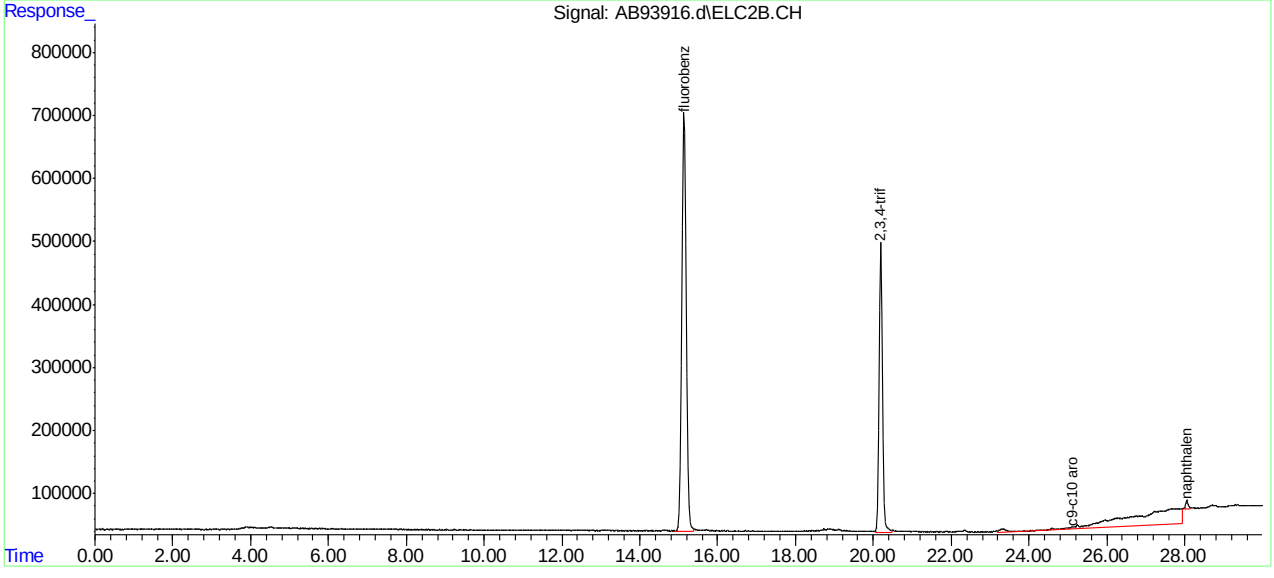
Quantitation Report (QT Reviewed)

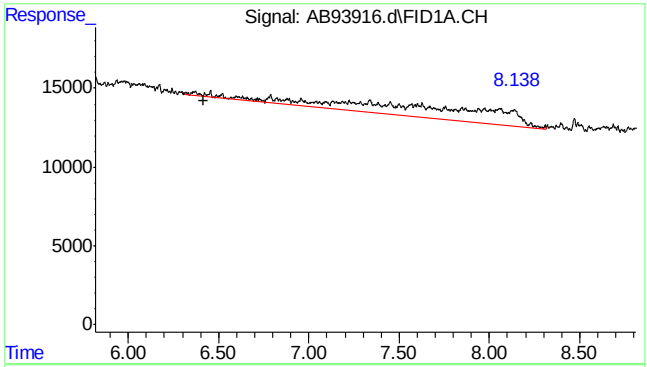
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:57:05
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26201,gab5160,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:58:59 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

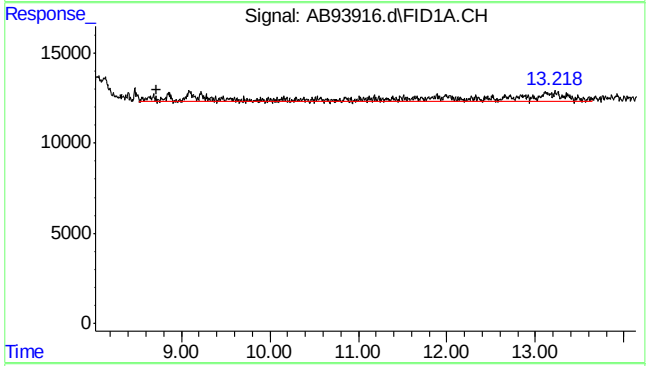






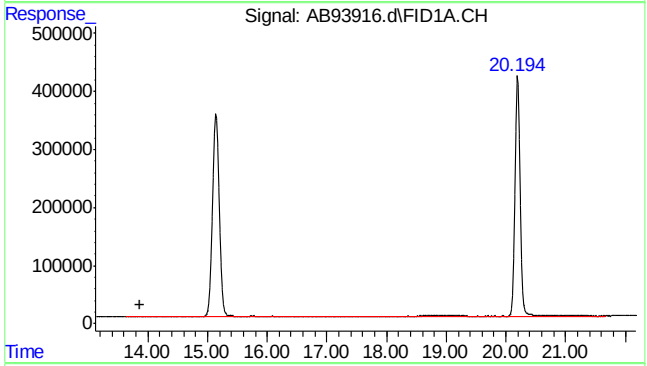
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 516498
Conc: 1.29 ppb m



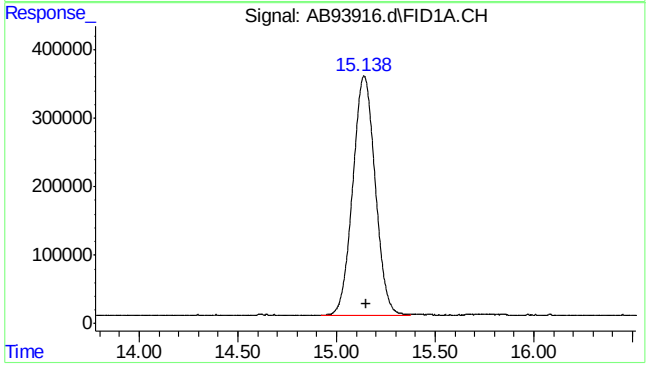
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 405555
Conc: 1.01 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 1927977
Conc: 4.80 ppb m



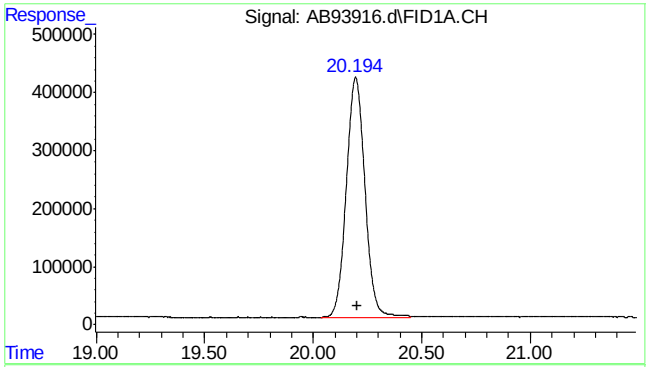
#4 fluorobenzene

R.T.: 15.139 min
Delta R.T.: -0.012 min
Response: 27614993
Conc: 62.74 ppb

7.2.2

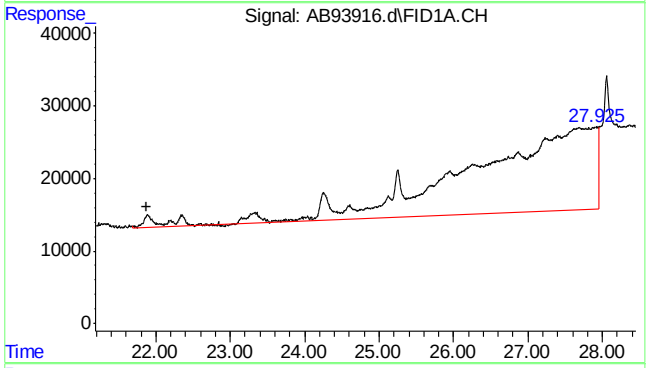
7

SGS ACCUTEST MC45611



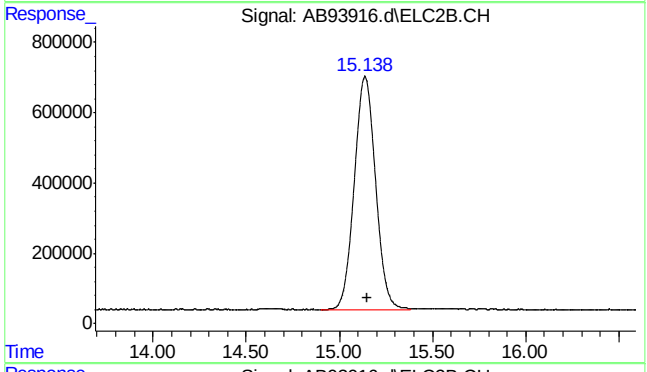
#6 2,3,4-trifluorotoluene

R.T.: 20.195 min
Delta R.T.: -0.010 min
Response: 24567342
Conc: 59.93 ppb



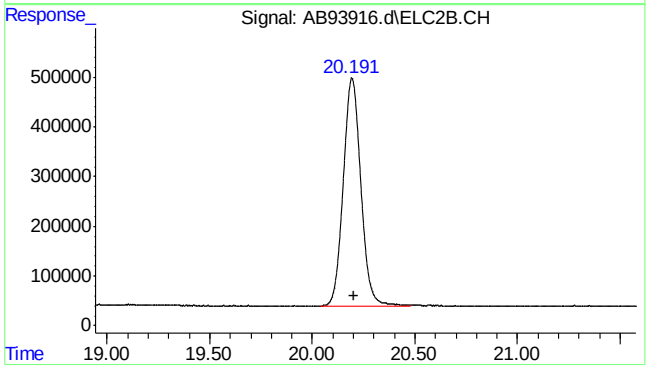
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 13694430
Conc: 21.86 ppb



#16 fluorobenzene #2

R.T.: 15.138 min
Delta R.T.: -0.010 min
Response: 52772062
Conc: 62.66 ppb



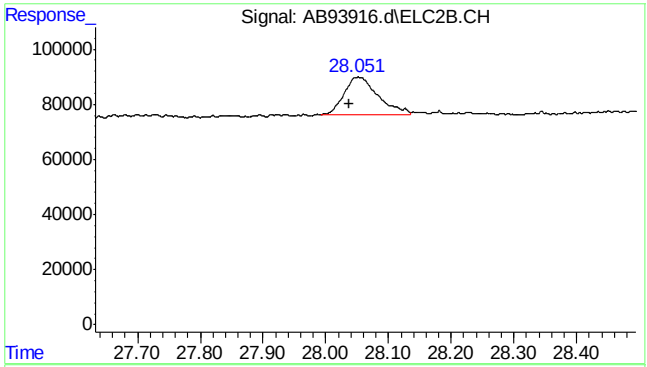
#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.010 min
Response: 27613600
Conc: 59.15 ppb

7.2.2

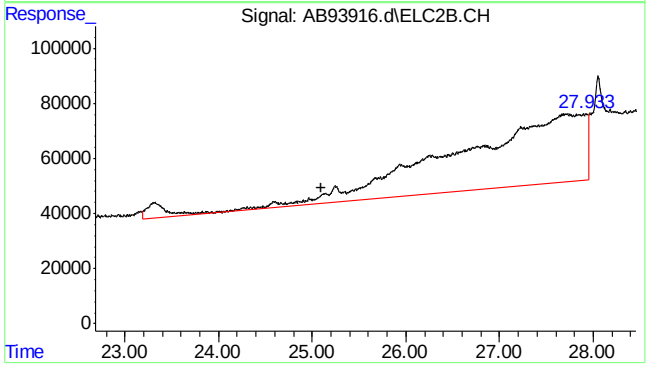
7

SGS ACCUTEST MC45611



#24 naphthalene #2

R.T.: 28.051 min
Delta R.T.: 0.013 min
Response: 518994
Conc: 0.72 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 25169100
Conc: 26.27 ppb m

7.2.2

7

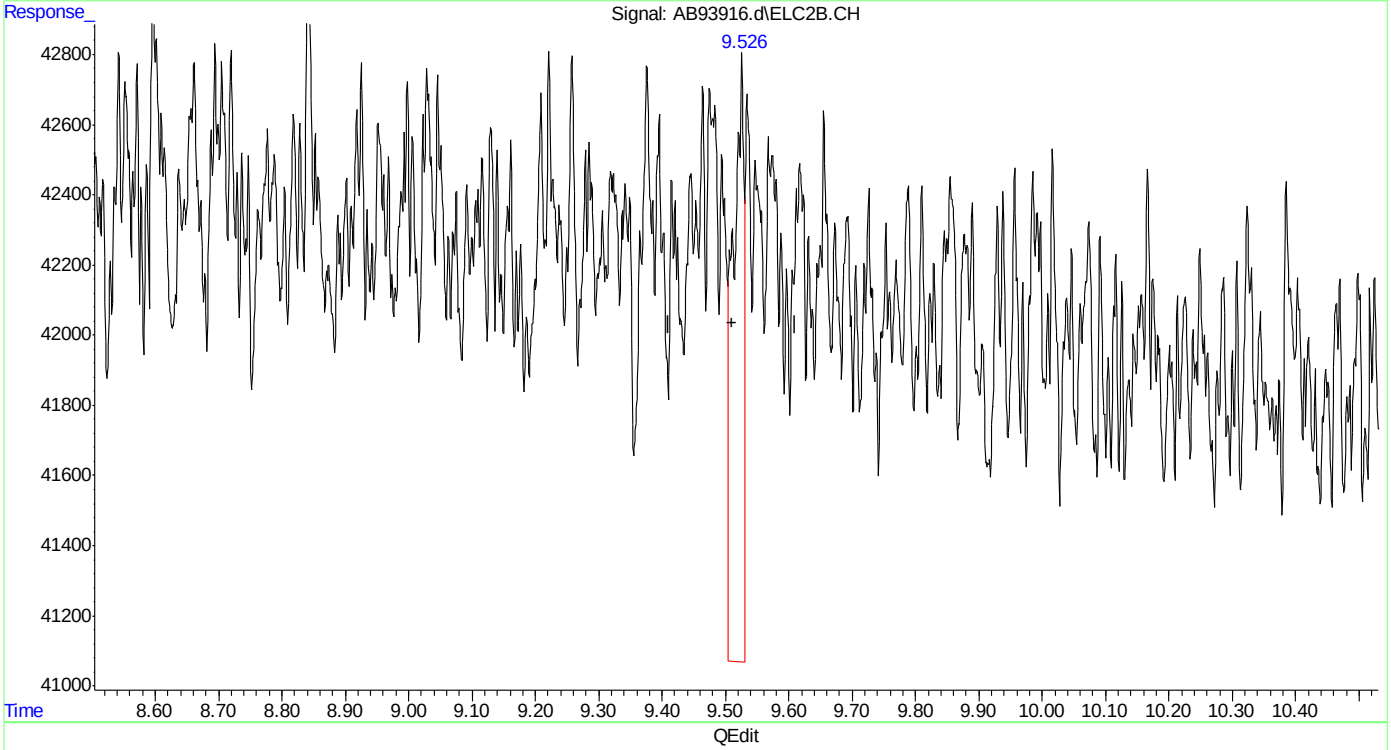
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:57:05
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26201,gab5160,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

9.526min 0.042 ppb

response 21124

(+) = Expected Retention Time

ab160502vph.M Mon May 02 09:58:10 2016

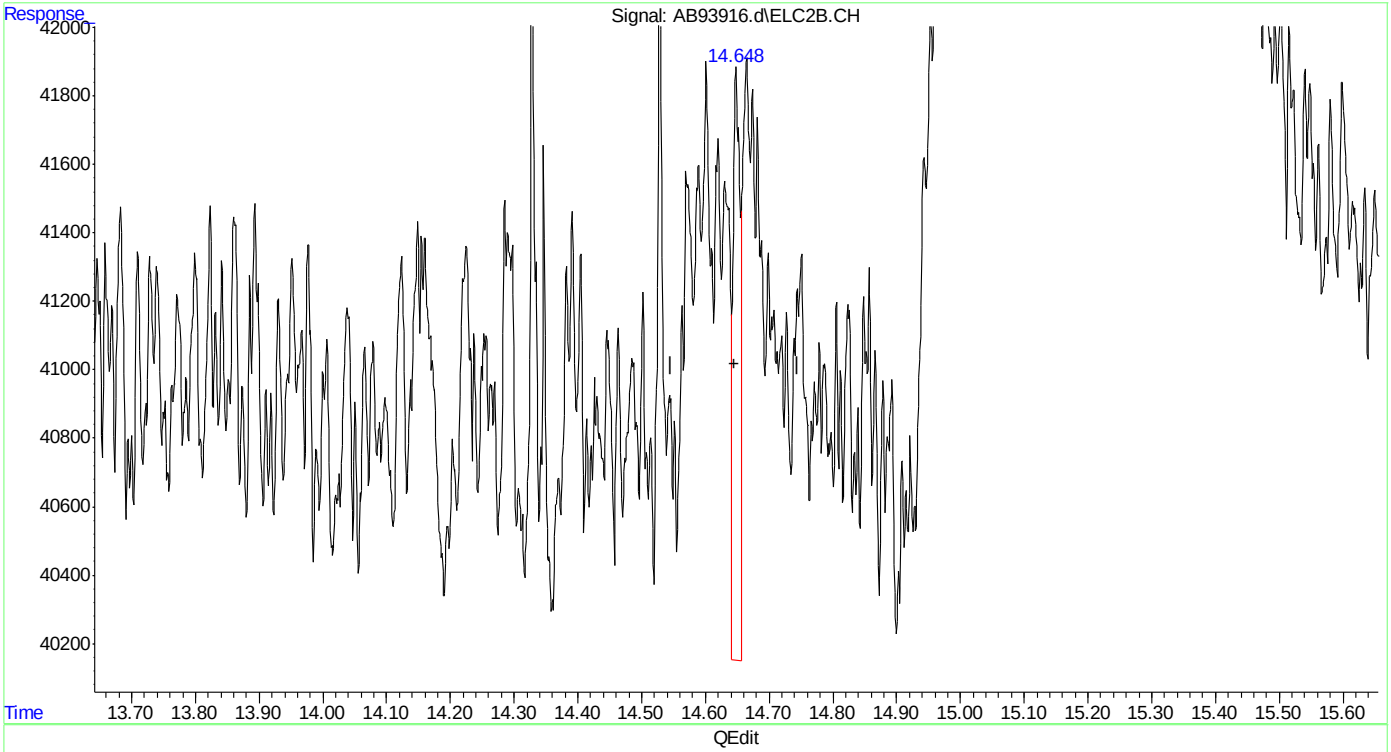
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:57:05
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26201,gab5160,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2

14.648min 0.010 ppb

response 12885

(+) = Expected Retention Time

ab160502vph.M Mon May 02 09:58:14 2016

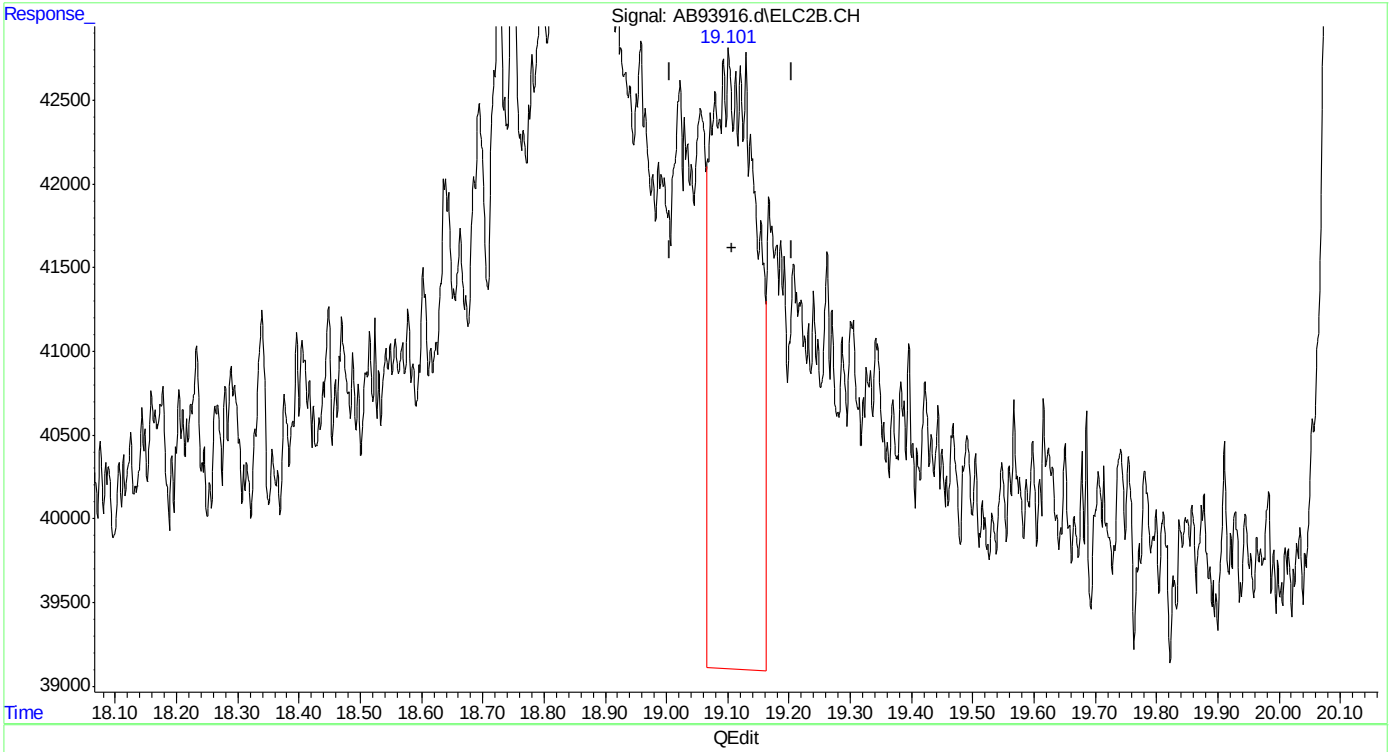
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:57:05
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26201,gab5160,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) toluene #2
19.102min 0.161 ppb
response 183602

(+) = Expected Retention Time
ab160502vph.M Mon May 02 09:58:17 2016

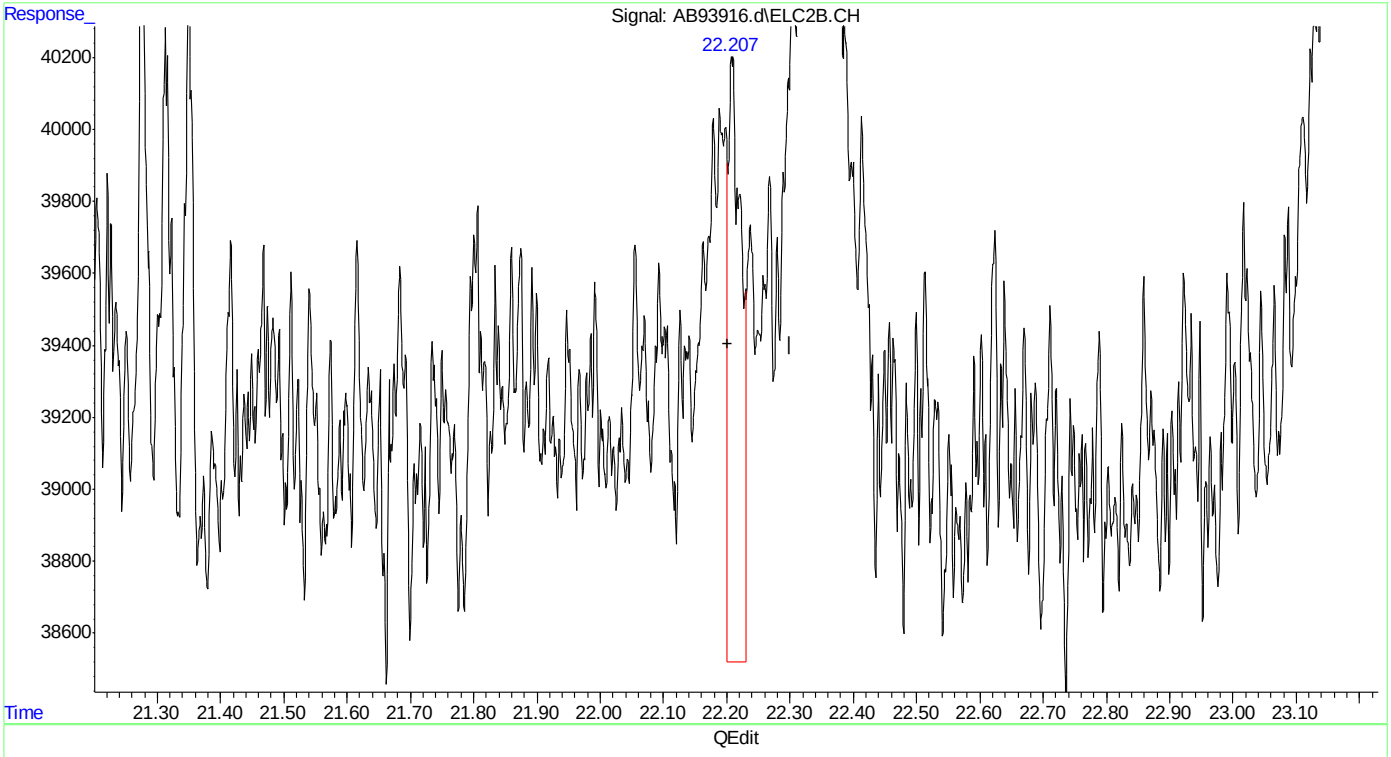
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:57:05
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26201,gab5160,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) ethylbenzene #2
22.208min 0.025 ppb
response 23541

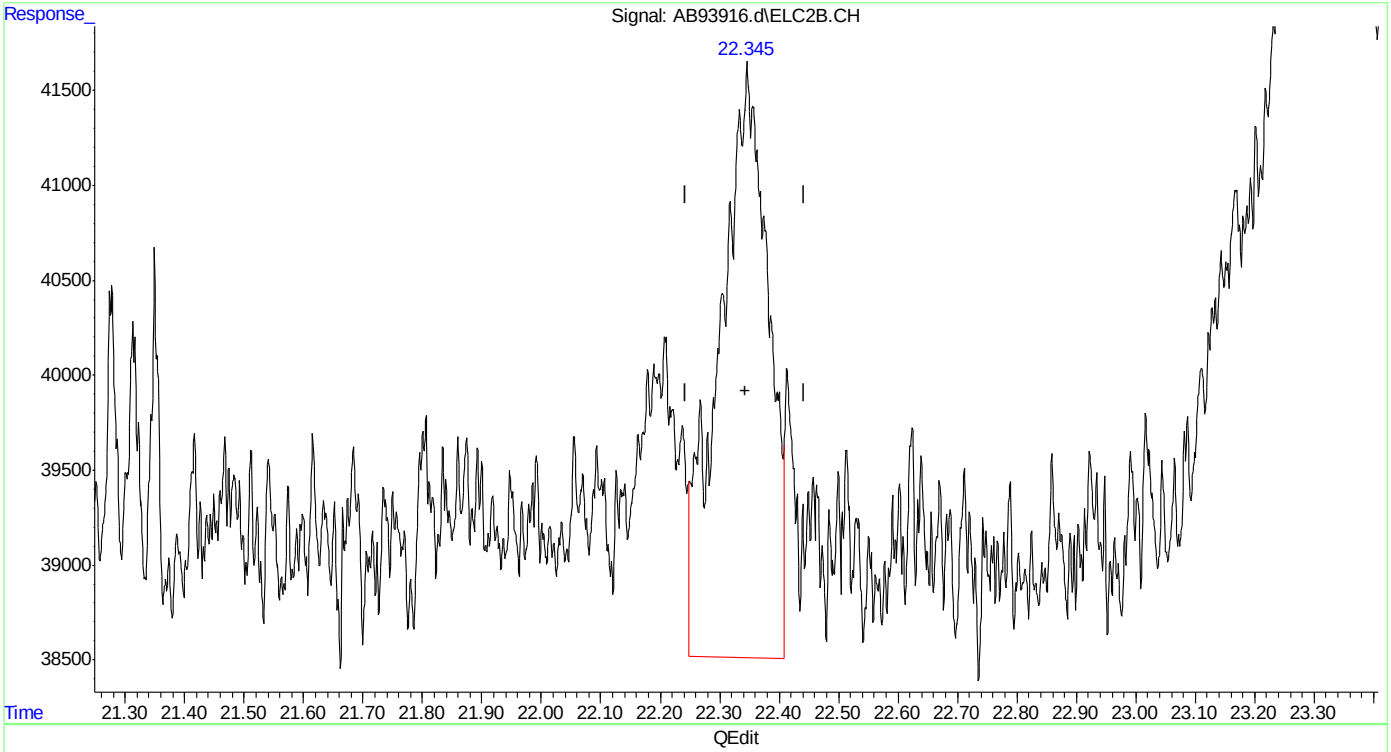
(+) = Expected Retention Time
ab160502vph.M Mon May 02 09:58:23 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:57:05
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26201,gab5160,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(20) m,p-xylene #2

22.346min 0.168 ppb

response 178324

(+) = Expected Retention Time

ab160502vph.M Mon May 02 09:58:27 2016

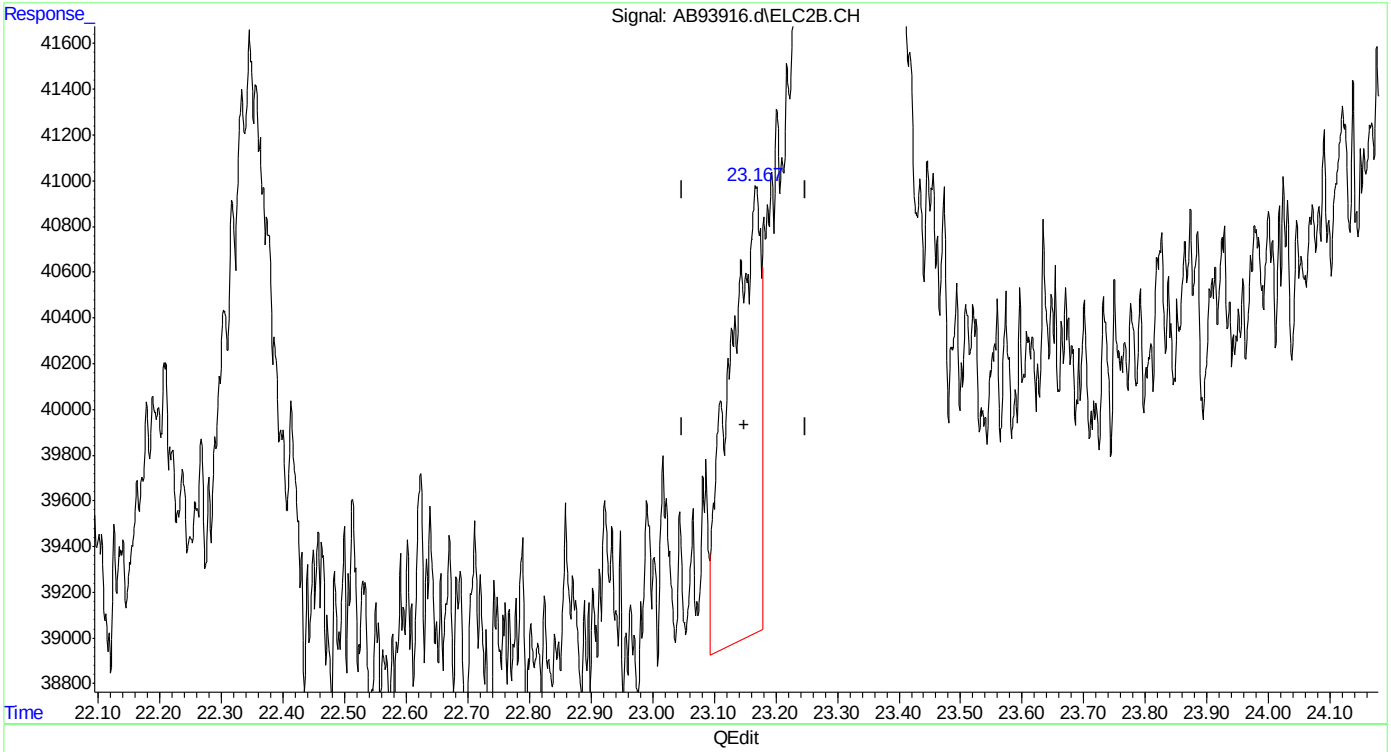
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:57:05
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26201,gab5160,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
23.168min 0.072 ppb
response 66885

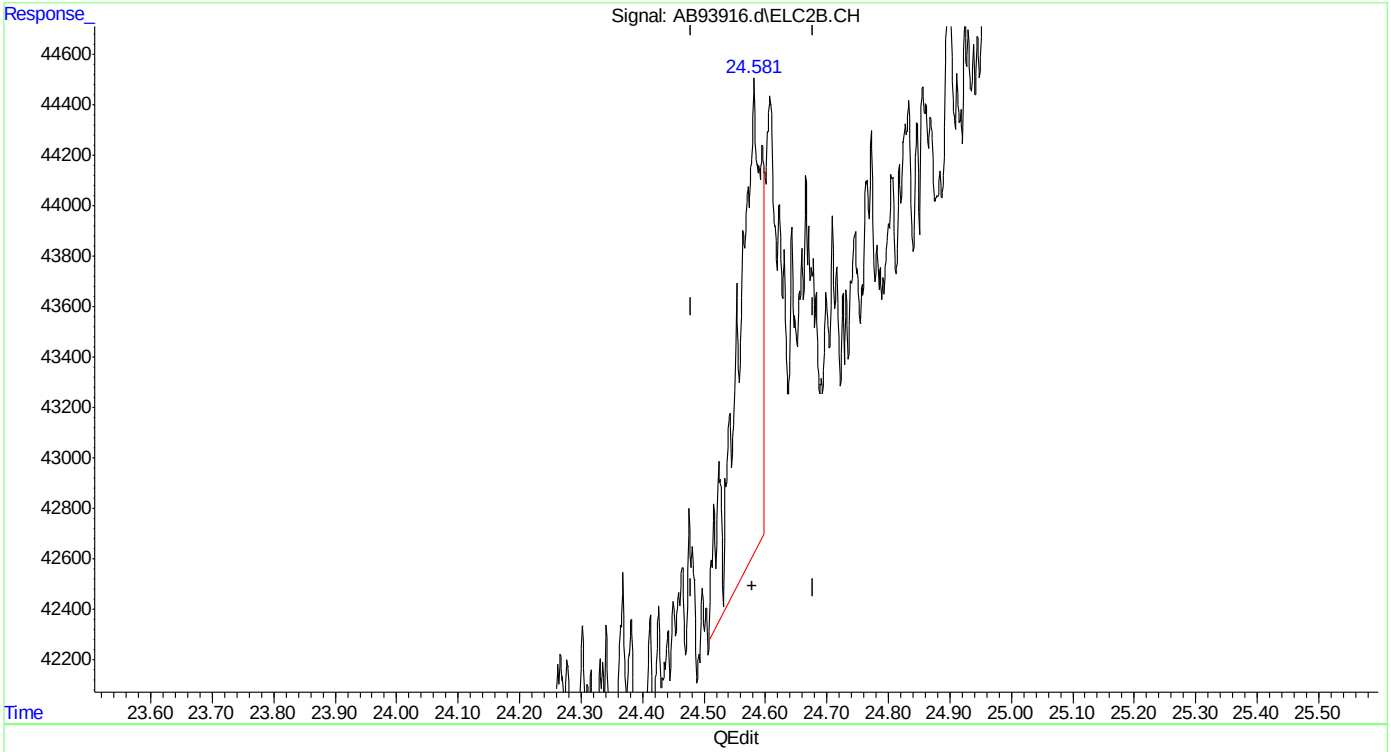
(+) = Expected Retention Time
ab160502vph.M Mon May 02 09:58:30 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:57:05
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26201,gab5160,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(22) 1,3,5-trimethylbenzene #2 (t)

24.582min 0.038 ppb

response 49757

(+) = Expected Retention Time

ab160502vph.M Mon May 02 09:58:35 2016

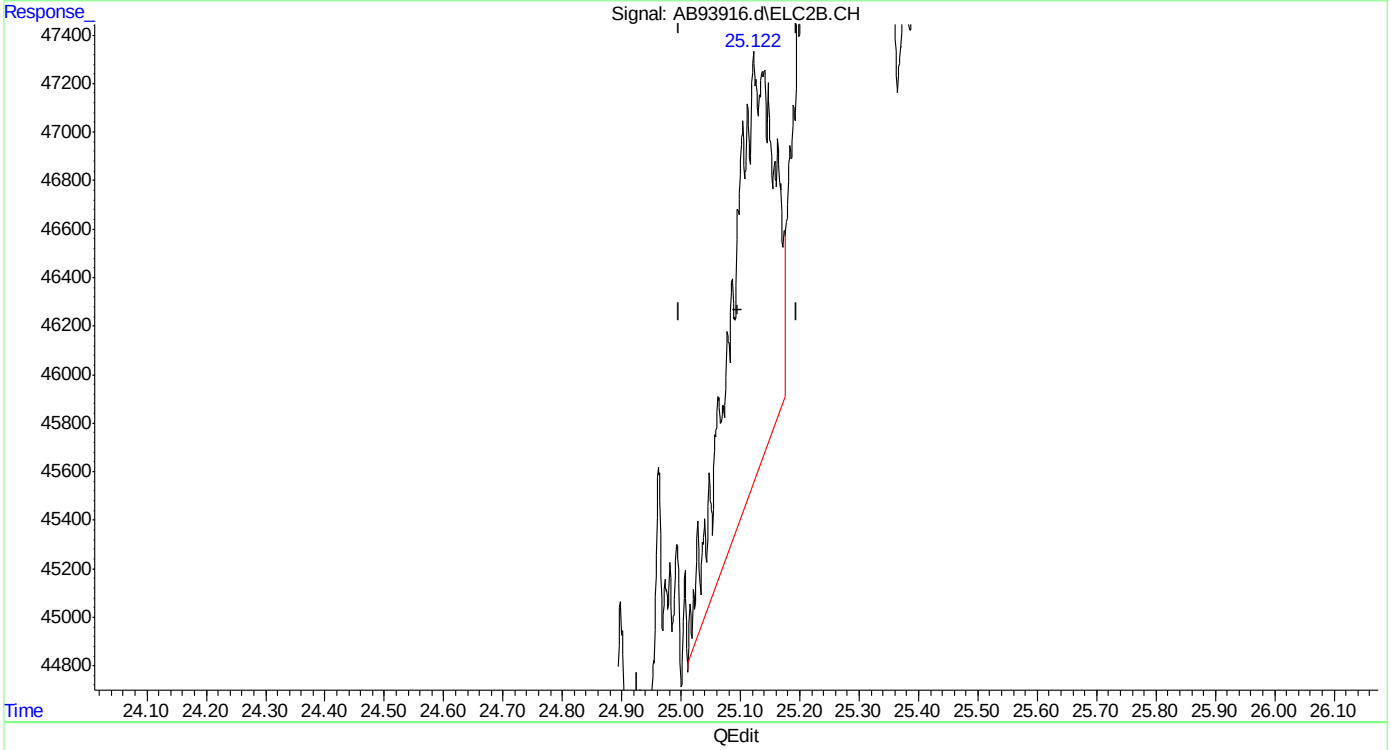
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:57:05
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26201,gab5160,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.138min 0.094 ppb
response 89801

(+) = Expected Retention Time
ab160502vph.M Mon May 02 09:58:38 2016

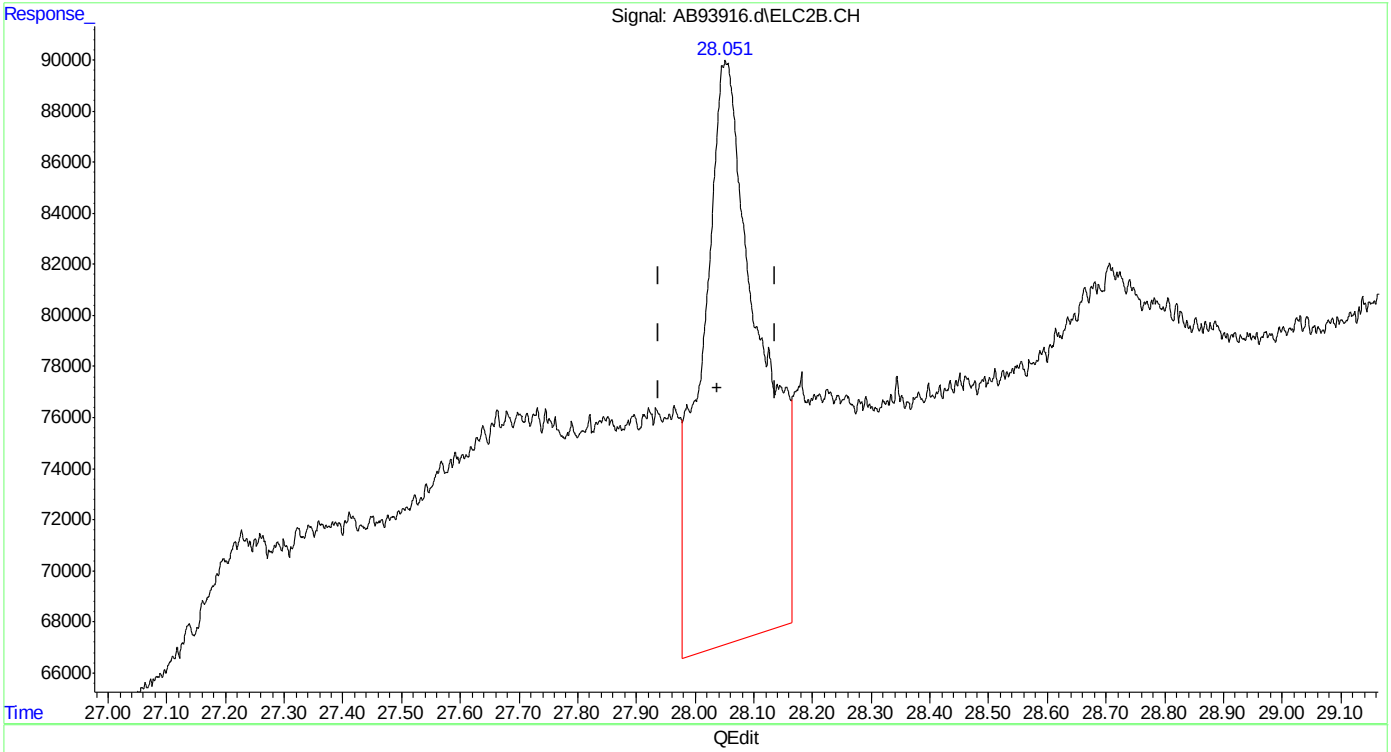
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:57:05
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26201,gab5160,16,,100,16,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.052min 2.131 ppb

response 1540393

(+) = Expected Retention Time

ab160502vph.M Mon May 02 09:58:42 2016

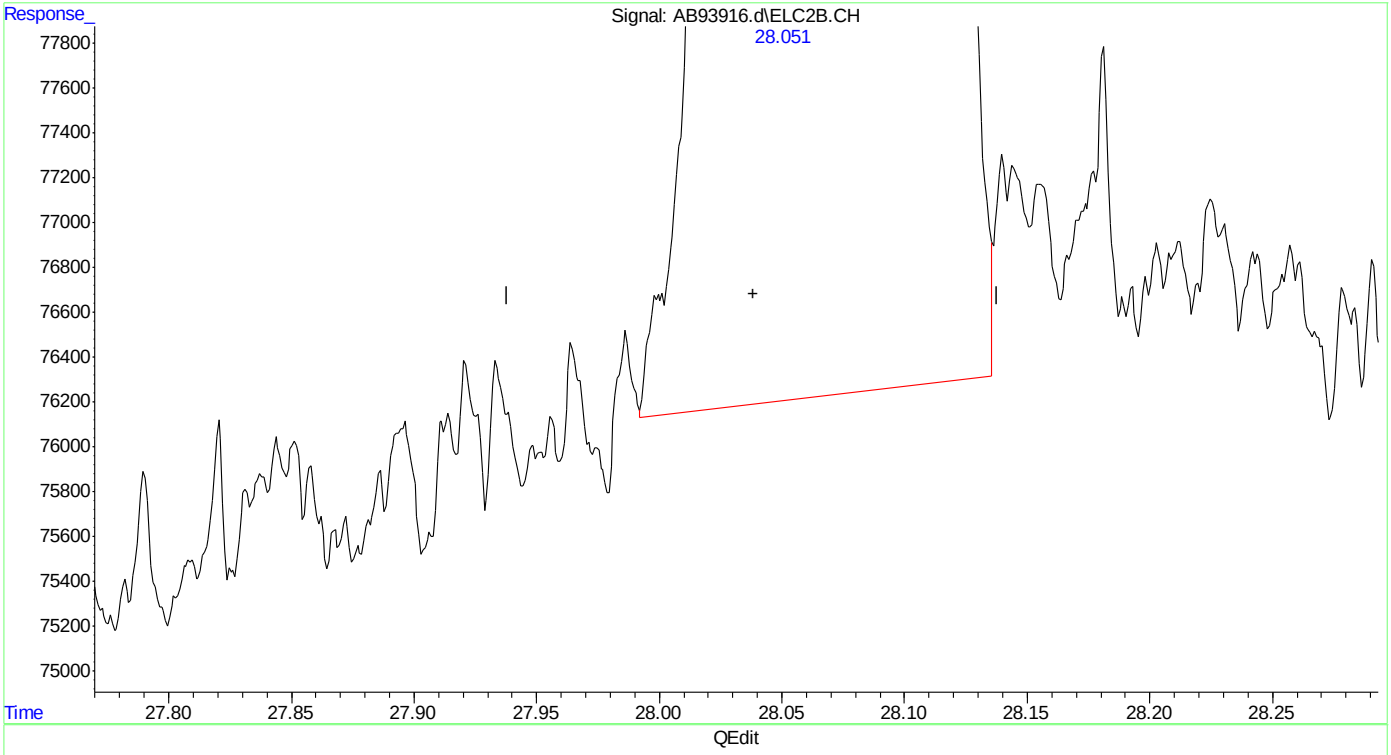
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93916.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:57:05
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26201,gab5160,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 09:57:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.051min 0.718 ppb m
response 518994

(+) = Expected Retention Time
ab160502vph.M Mon May 02 09:58:55 2016

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93909.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:13:40
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:04:14 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	15.139	21459972	48.757 ppb	
Spiked Amount 50.000		Recovery	= 97.51%	
6) s 2,3,4-trifluorotoluene	20.195	19241595	46.936 ppb	
Spiked Amount 50.000		Recovery	= 93.87%	
16) s fluorobenzene #2	15.137	40639328	48.251 ppb	
Spiked Amount 50.000		Recovery	= 96.50%	
18) s 2,3,4-trifluorotoluen...	20.193	21248866	45.513 ppb	
Spiked Amount 50.000		Recovery	= 91.03%	
Target Compounds				
1) h rt5.5-7	6.420	16359918	40.746 ppb	m
2) h rt7/10	8.720	18995134	47.309 ppb	m
3) h rt10/13	13.870	22108052	55.062 ppb	m
8) h rt20/25	21.870	26560647	42.395 ppb	m
10) h decane	24.200	26502233	42.302 ppb	
11) h butylcyclohexane	25.240	29054678	46.376 ppb	
14) mtbe #2	9.497	25630309	50.808 ppb	m
15) benzene #2	14.635	62726826	48.190 ppb	
17) toluene #2	19.094	54091126	47.312 ppb	
19) ethylbenzene #2	22.191	44317879	47.867 ppb	
20) m,p-xylene #2	22.335	106460470	100.366 ppb	
21) o-xylene #2	23.141	44111611	47.222 ppb	
22) t 1,3,5-trimethylbenzen...	24.572	58596838	44.850 ppb	
23) 1,2,4-trimethylbenzen...	25.090	45140692	47.167 ppb	
24) naphthalene #2	28.033	33968832	46.989 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44552444	46.503 ppb	m

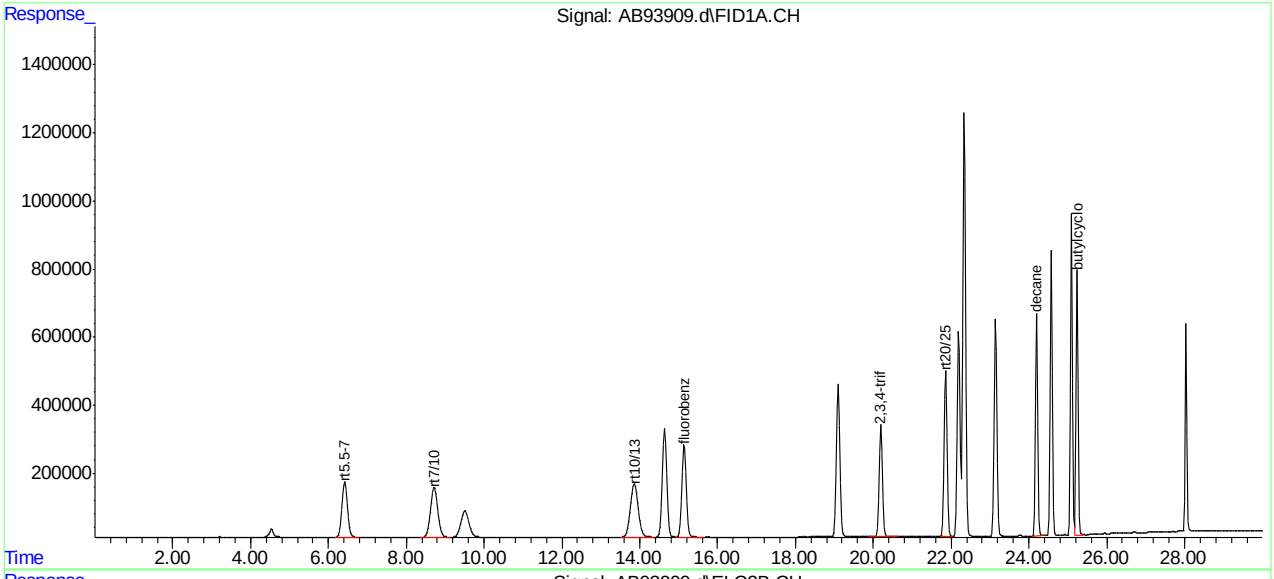
(f)=RT Delta > 1/2 Window (m)=manual int.

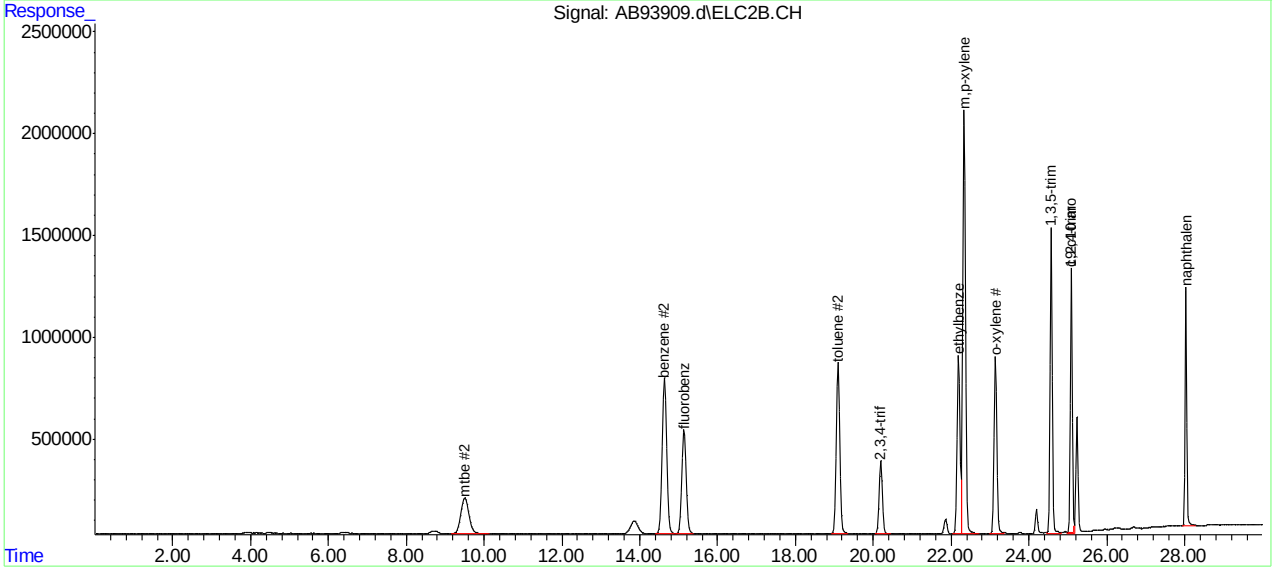
Quantitation Report (QT Reviewed)

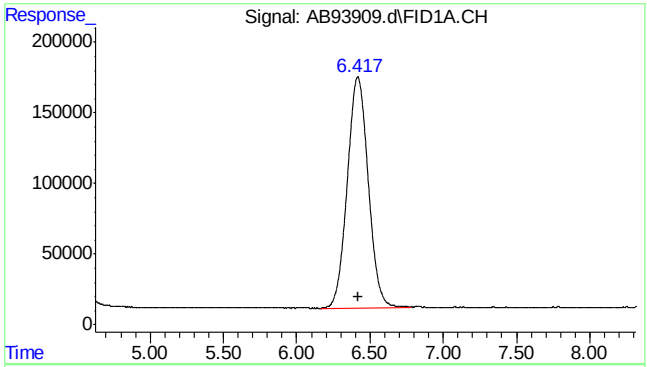
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93909.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:13:40
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:04:14 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

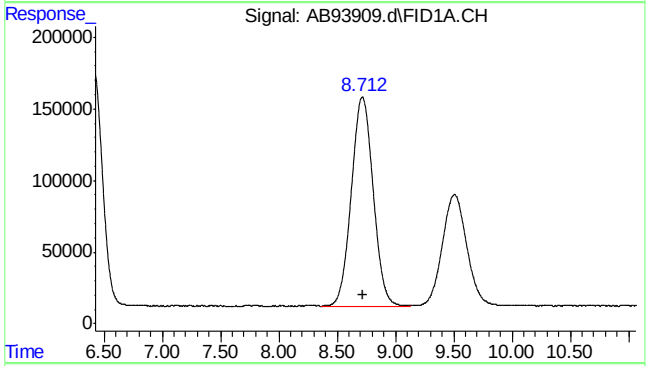






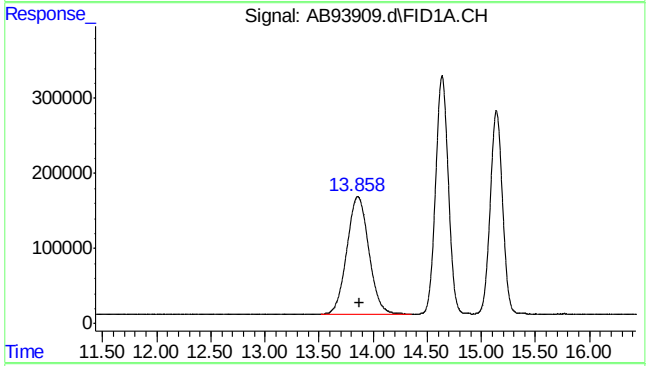
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16359918
Conc: 40.75 ppb m



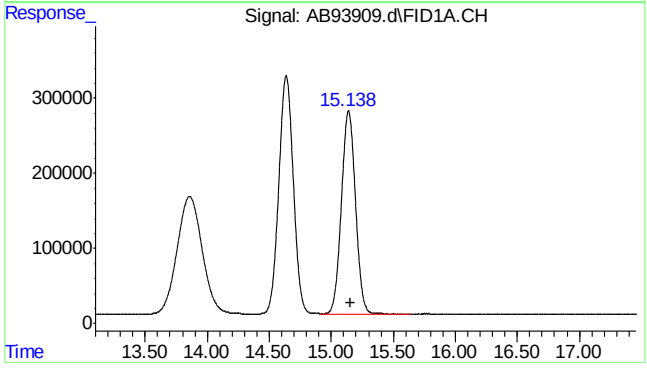
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18995134
Conc: 47.31 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 22108052
Conc: 55.06 ppb m



#4 fluorobenzene

R.T.: 15.139 min
Delta R.T.: -0.012 min
Response: 21459972
Conc: 48.76 ppb

7.3.1

7

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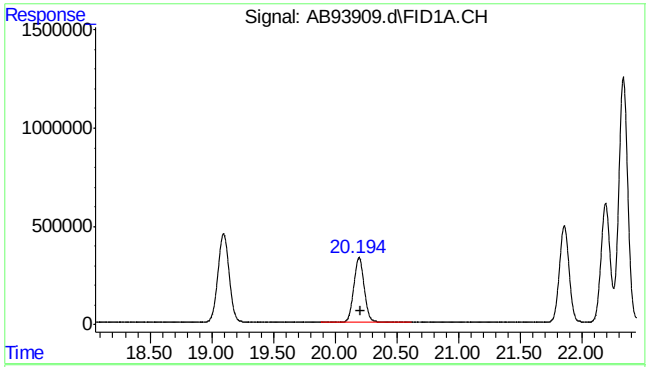
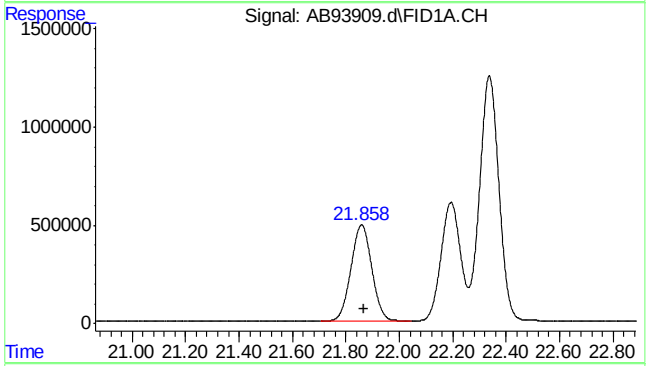


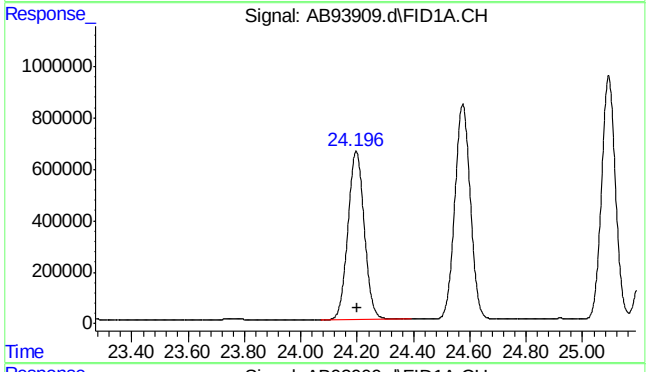
#6 2,3,4-trifluorotoluene

R.T.: 20.195 min
Delta R.T.: -0.010 min
Response: 19241595
Conc: 46.94 ppb



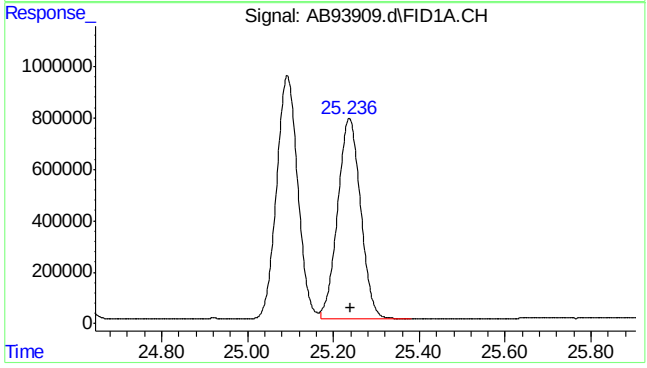
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26560647
Conc: 42.40 ppb m



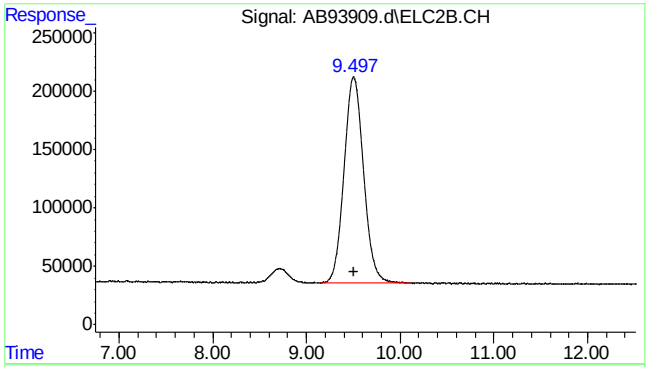
#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26502233
Conc: 42.30 ppb



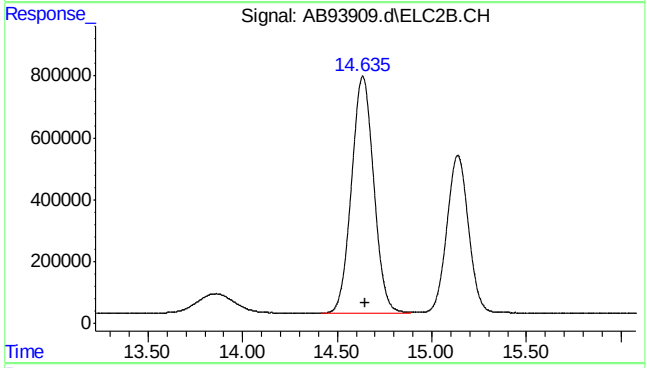
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29054678
Conc: 46.38 ppb



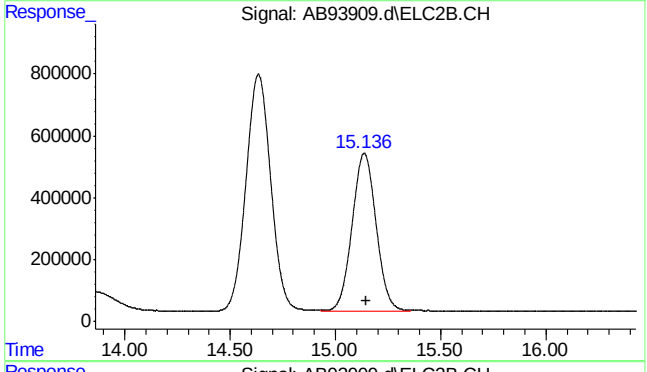
#14 mtbe #2

R.T.: 9.497 min
Delta R.T.: -0.014 min
Response: 25630309
Conc: 50.81 ppb m



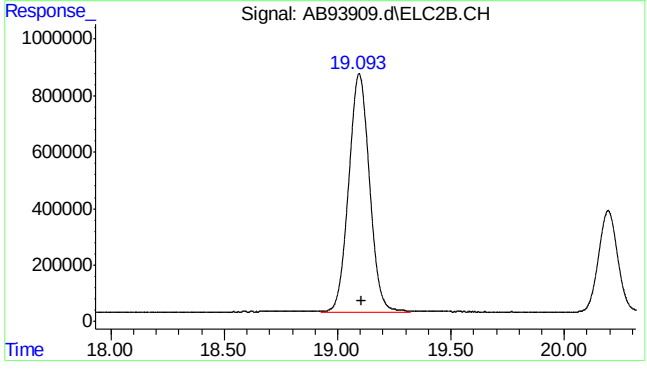
#15 benzene #2

R.T.: 14.635 min
Delta R.T.: -0.011 min
Response: 62726826
Conc: 48.19 ppb



#16 fluorobenzene #2

R.T.: 15.137 min
Delta R.T.: -0.011 min
Response: 40639328
Conc: 48.25 ppb

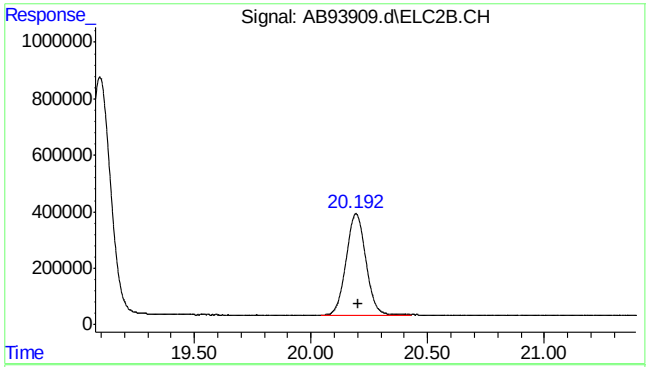


#17 toluene #2

R.T.: 19.094 min
Delta R.T.: -0.012 min
Response: 54091126
Conc: 47.31 ppb

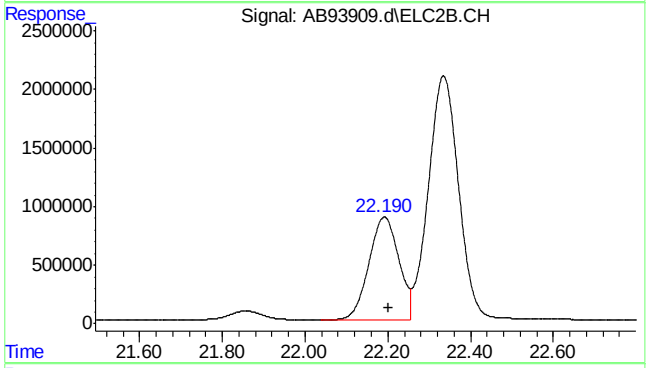
7.3.1

7



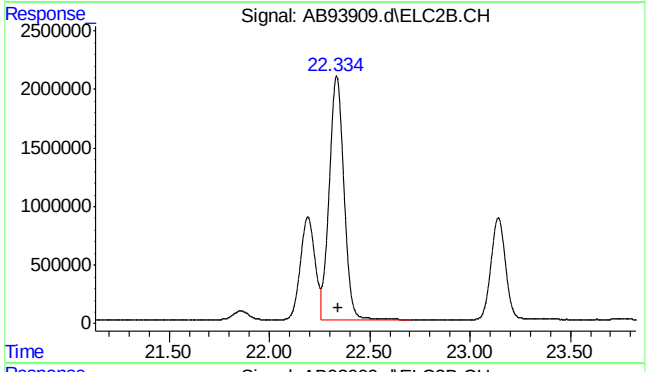
#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.011 min
Response: 21248866
Conc: 45.51 ppb



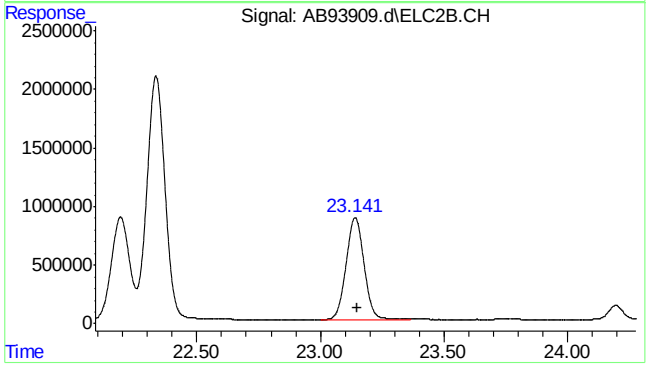
#19 ethylbenzene #2

R.T.: 22.191 min
Delta R.T.: -0.010 min
Response: 44317879
Conc: 47.87 ppb



#20 m,p-xylene #2

R.T.: 22.335 min
Delta R.T.: -0.009 min
Response: 106460470
Conc: 100.37 ppb

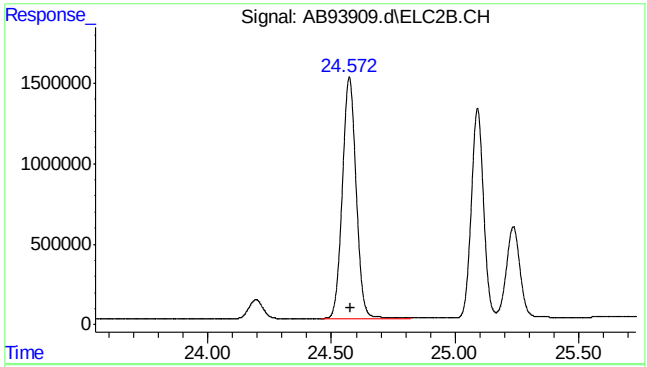


#21 o-xylene #2

R.T.: 23.141 min
Delta R.T.: -0.009 min
Response: 44111611
Conc: 47.22 ppb

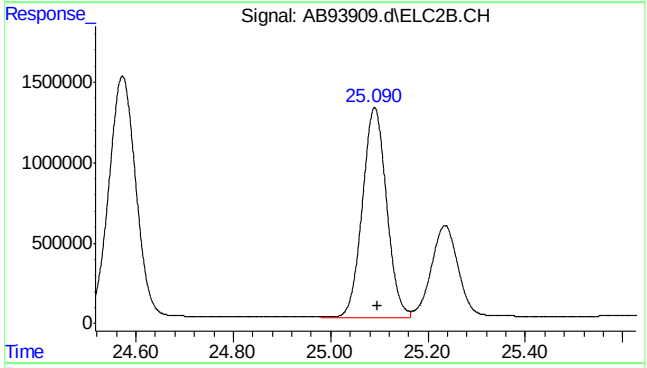
7.3.1

7



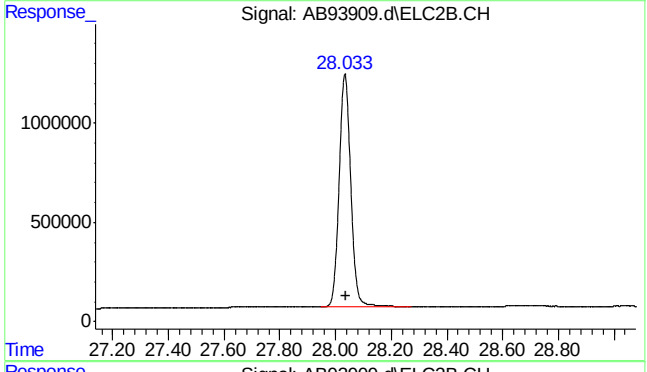
#22 1,3,5-trimethylbenzene #2

R.T.: 24.572 min
Delta R.T.: -0.007 min
Response: 58596838
Conc: 44.85 ppb



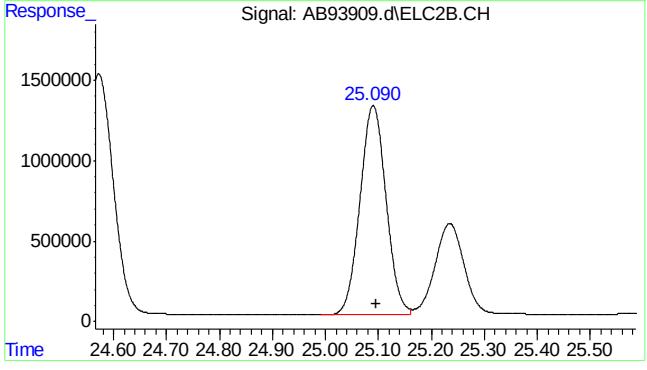
#23 1,2,4-trimethylbenzene #2

R.T.: 25.090 min
Delta R.T.: -0.006 min
Response: 45140692
Conc: 47.17 ppb



#24 naphthalene #2

R.T.: 28.033 min
Delta R.T.: -0.005 min
Response: 33968832
Conc: 46.99 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44552444
Conc: 46.50 ppb m

7.3.1

7

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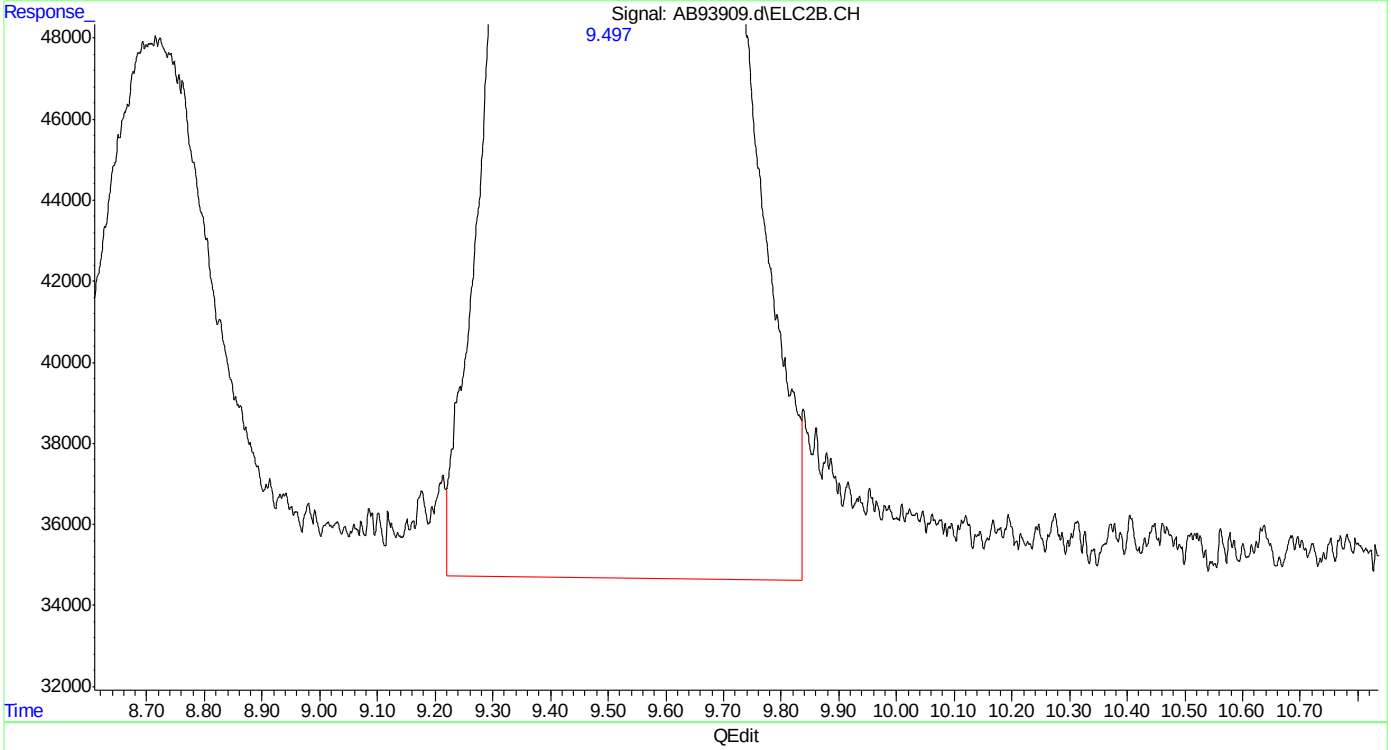
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93909.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:13:40
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:28 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.498min 51.134 ppb
response 25794915

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:03:40 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93909.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 15:13:40
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:28 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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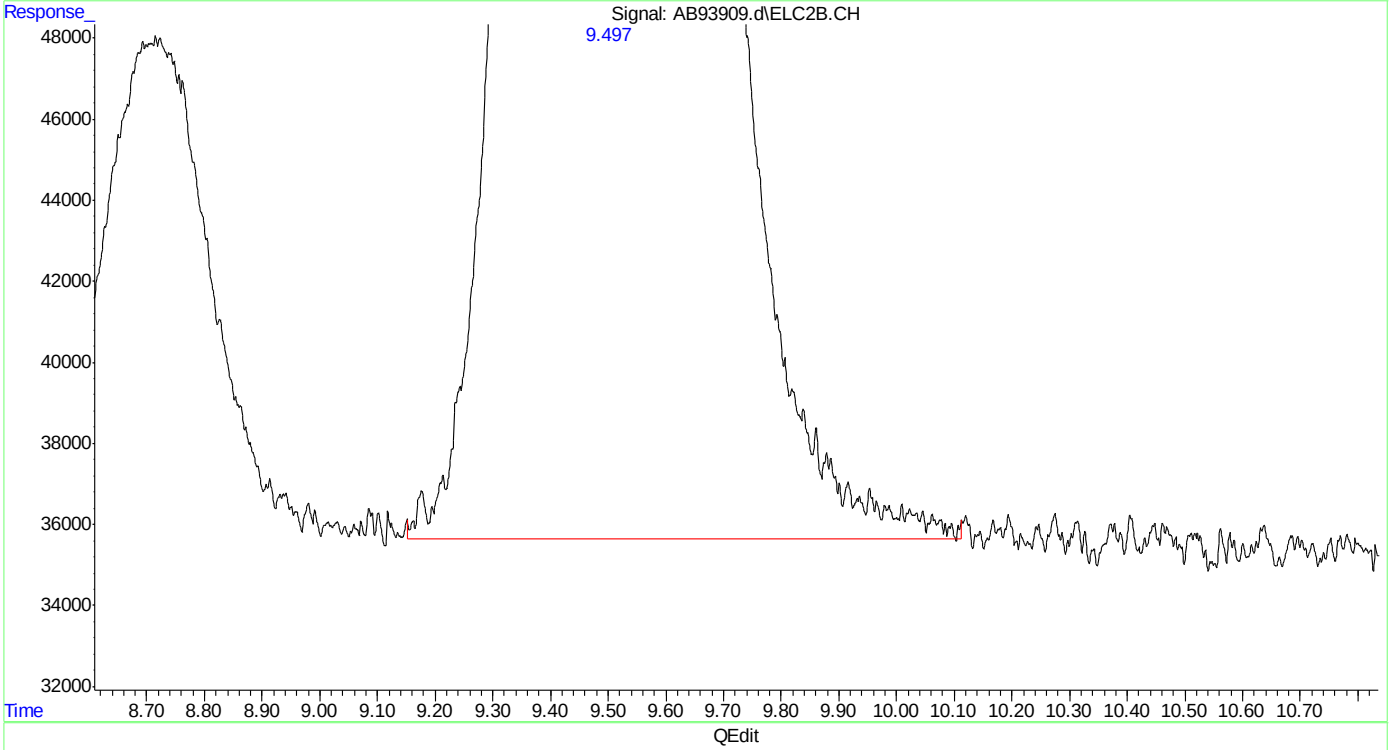


(14) mtbe #2

9.497min 50.808 ppb m

response 25630309

(+) = Expected Retention Time

ab160429vph.M Mon May 02 07:03:45 2016

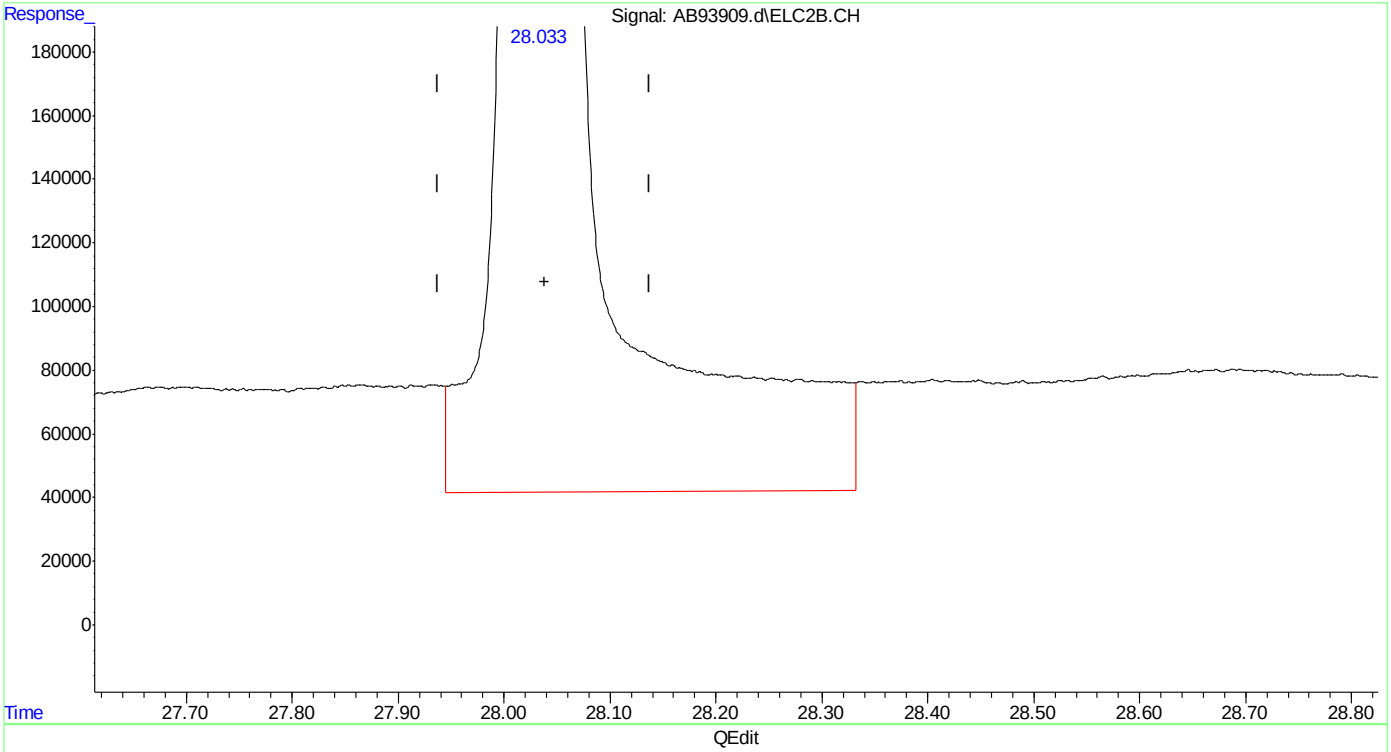
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93909.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 15:13:40
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:28 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.033min 57.792 ppb

response 41778849

(+) = Expected Retention Time

ab160429vph.M Mon May 02 07:03:53 2016

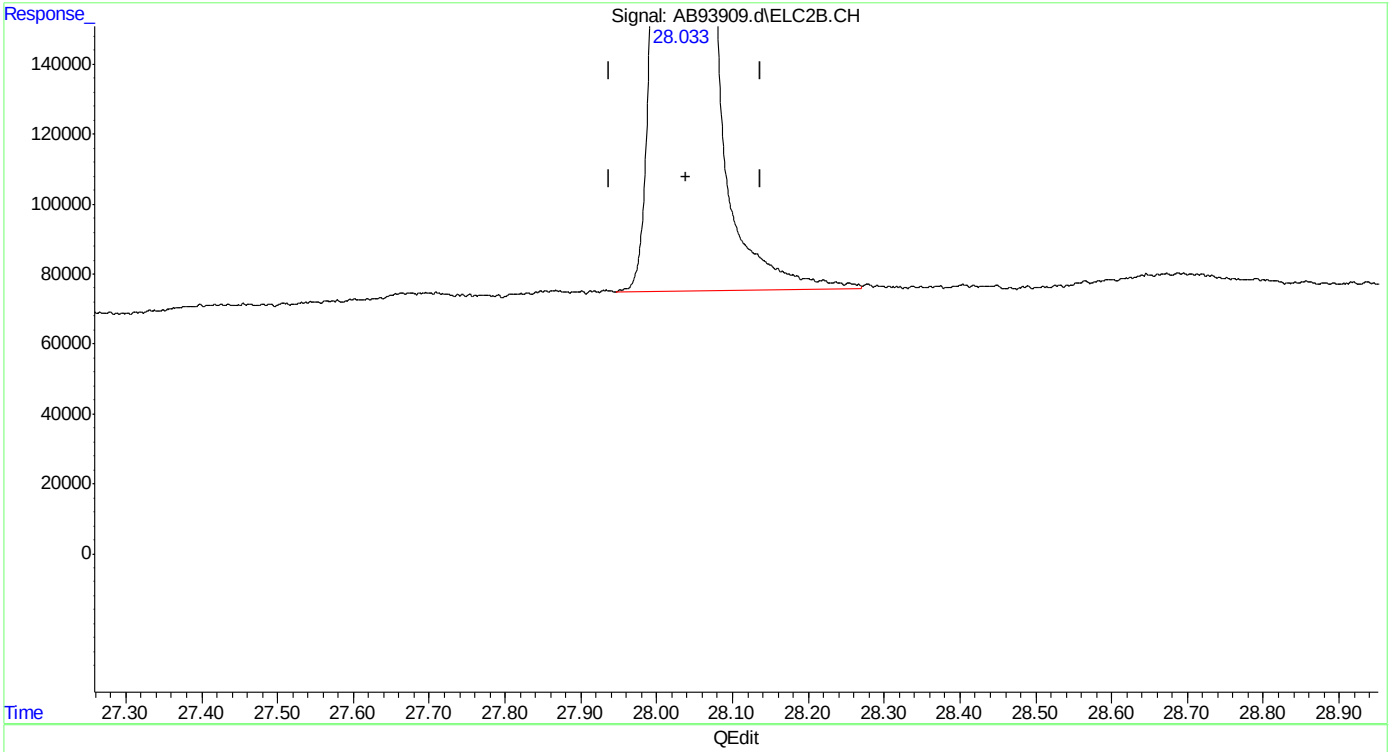
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93909.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:13:40
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:28 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.033min 46.989 ppb m
response 33968832

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:04:05 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93910.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:52:15
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:06:39 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	15.142	21574059	49.016 ppb	
Spiked Amount 50.000		Recovery	= 98.03%	
6) s 2,3,4-trifluorotoluene	20.197	19347120	47.194 ppb	
Spiked Amount 50.000		Recovery	= 94.39%	
16) s fluorobenzene #2	15.141	40902967	48.564 ppb	
Spiked Amount 50.000		Recovery	= 97.13%	
18) s 2,3,4-trifluorotoluen...	20.195	21369986	45.772 ppb	
Spiked Amount 50.000		Recovery	= 91.54%	
Target Compounds				
1) h rt5.5-7	6.420	16308289	40.617 ppb	m
2) h rt7/10	8.720	19001965	47.326 ppb	m
3) h rt10/13	13.870	22340799	55.642 ppb	m
8) h rt20/25	21.870	26969668	43.048 ppb	m
10) h decane	24.200	26944103	43.007 ppb	
11) h butylcyclohexane	25.240	29388610	46.909 ppb	
14) mtbe #2	9.508	26084221	51.708 ppb	m
15) benzene #2	14.638	63018844	48.415 ppb	
17) toluene #2	19.097	54478849	47.651 ppb	
19) ethylbenzene #2	22.193	44581308	48.152 ppb	
20) m,p-xylene #2	22.337	106977550	100.854 ppb	
21) o-xylene #2	23.142	44433072	47.566 ppb	
22) t 1,3,5-trimethylbenzen...	24.573	58065617	44.443 ppb	
23) 1,2,4-trimethylbenzen...	25.091	44671714	46.677 ppb	
24) naphthalene #2	28.035	34360447	47.531 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44741348	46.701 ppb	m

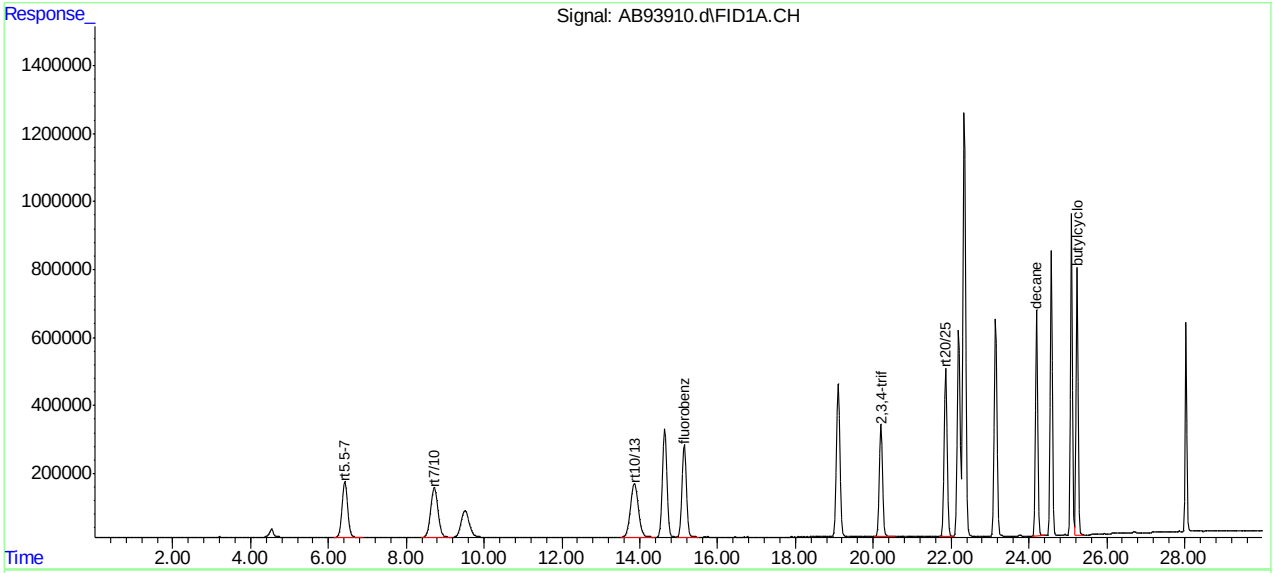
(f)=RT Delta > 1/2 Window (m)=manual int.

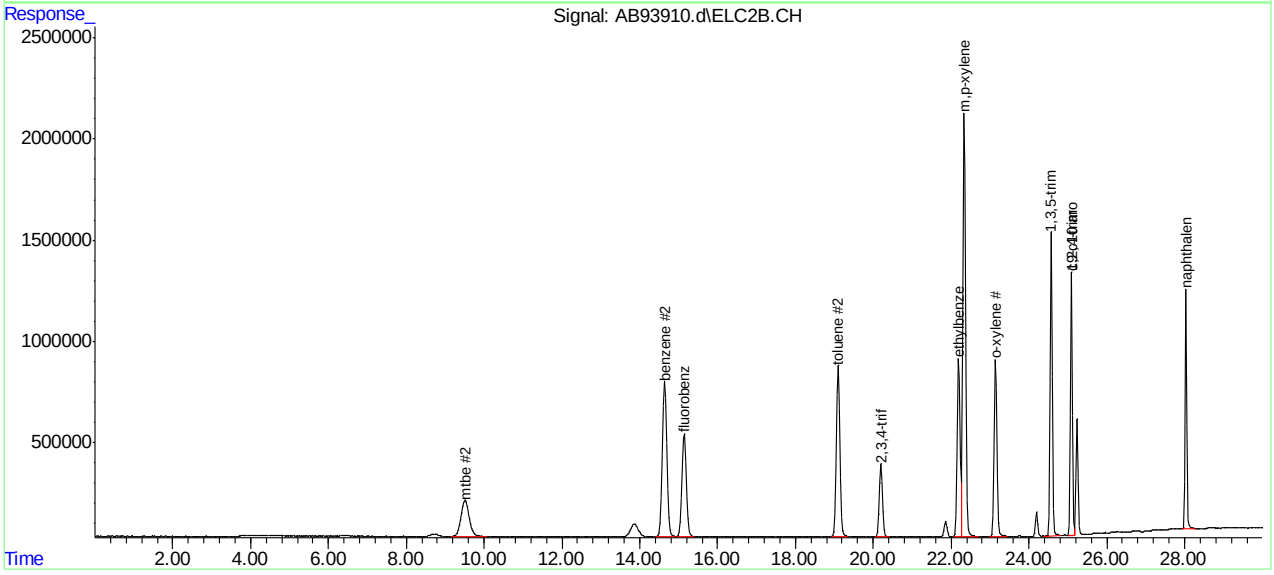
Quantitation Report (QT Reviewed)

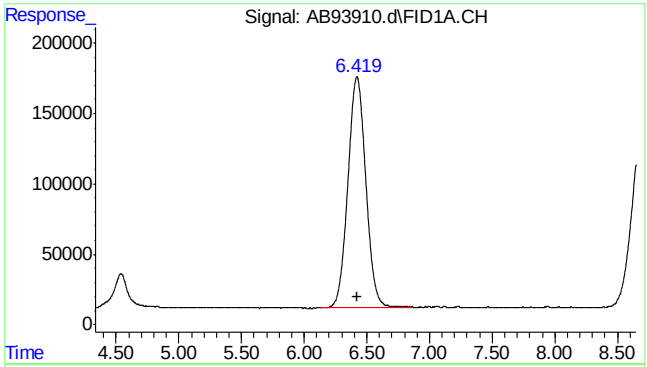
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93910.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:52:15
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:06:39 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

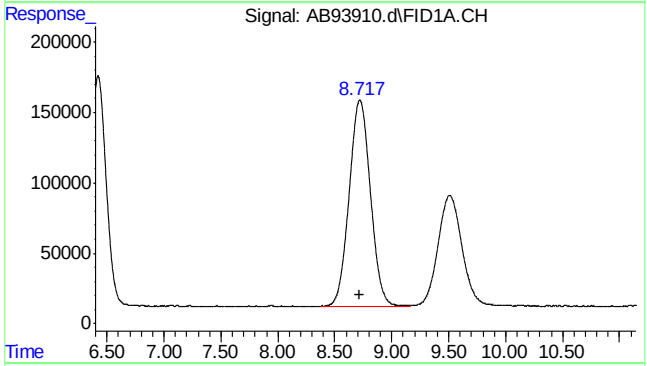






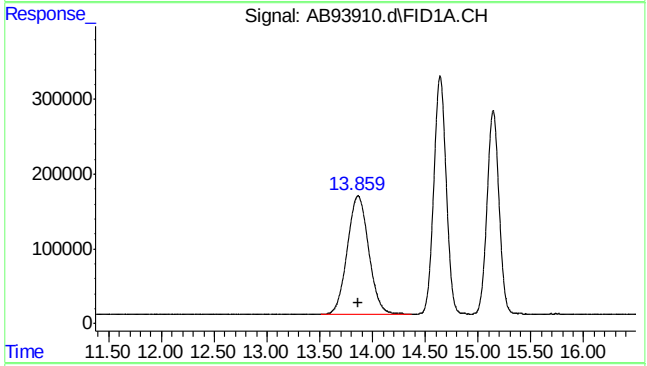
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16308289
Conc: 40.62 ppb m



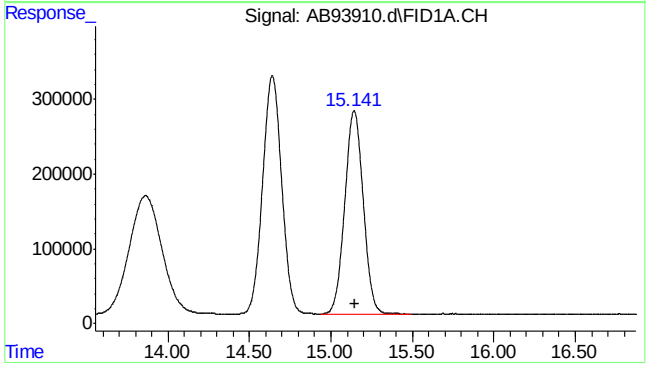
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 19001965
Conc: 47.33 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 22340799
Conc: 55.64 ppb m



#4 fluorobenzene

R.T.: 15.142 min
Delta R.T.: -0.009 min
Response: 21574059
Conc: 49.02 ppb

7.3.2

7

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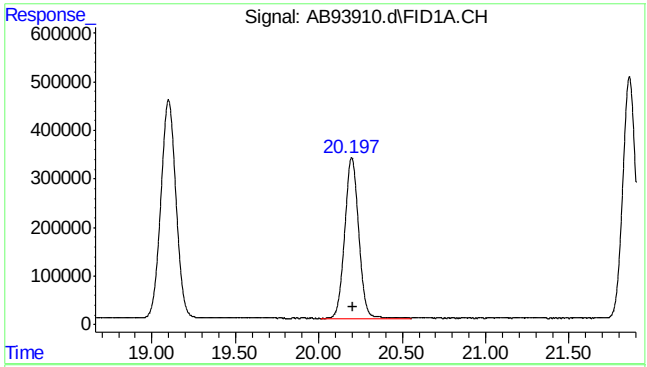
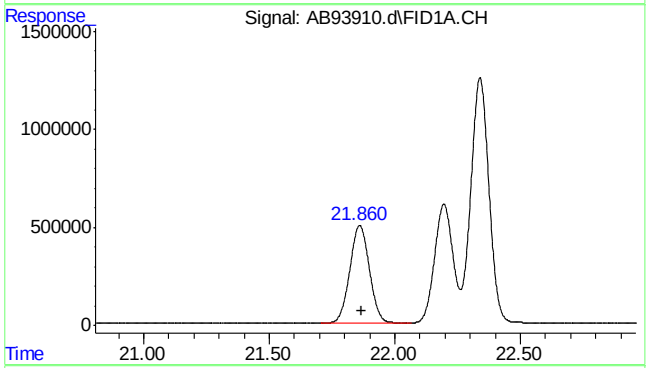


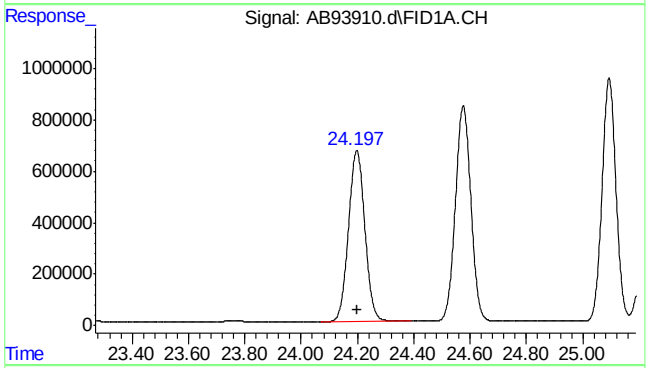
#6 2,3,4-trifluorotoluene

R.T.: 20.197 min
Delta R.T.: -0.008 min
Response: 19347120
Conc: 47.19 ppb



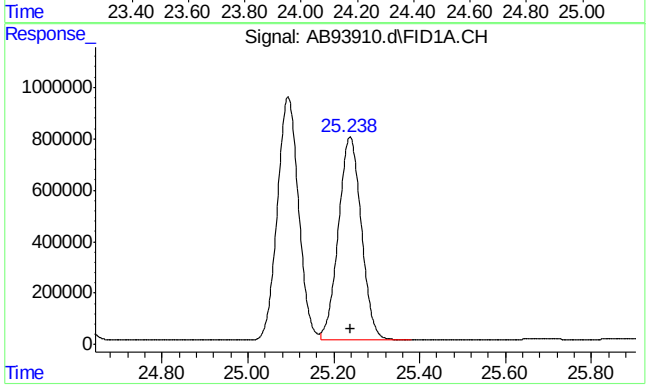
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26969668
Conc: 43.05 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26944103
Conc: 43.01 ppb



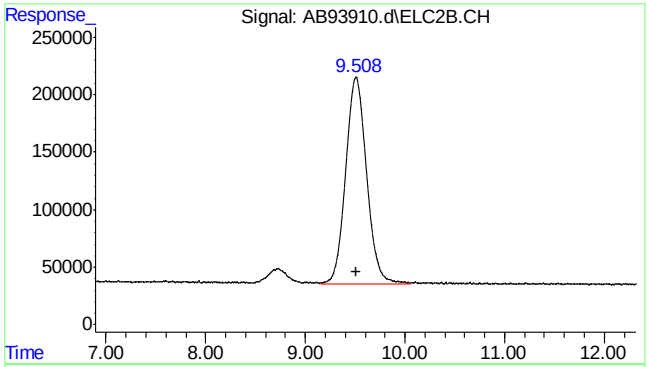
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29388610
Conc: 46.91 ppb

7.3.2

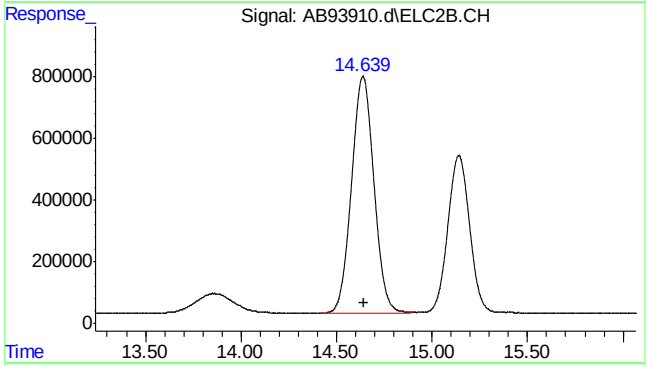
7

SGS ACCUTEST MC45611



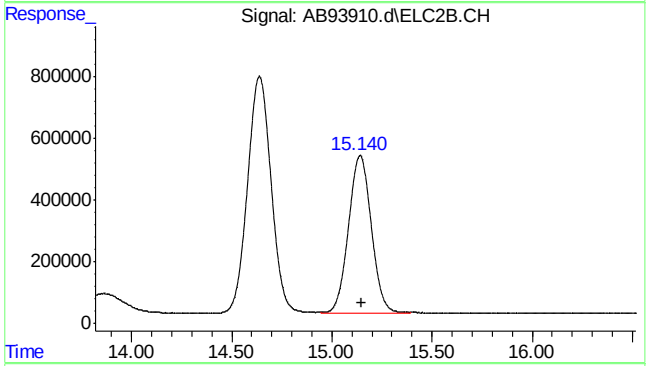
#14 mtbe #2

R.T.: 9.508 min
Delta R.T.: -0.003 min
Response: 26084221
Conc: 51.71 ppb m



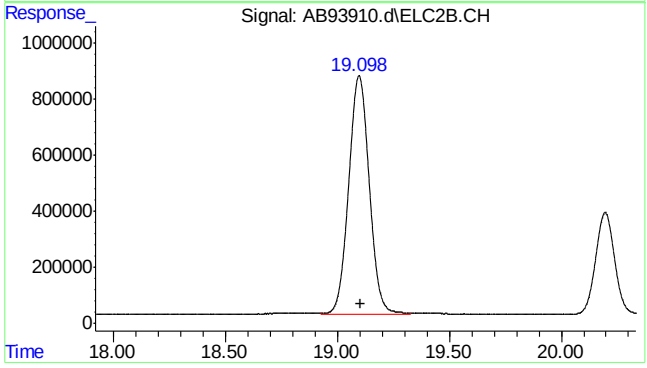
#15 benzene #2

R.T.: 14.638 min
Delta R.T.: -0.008 min
Response: 63018844
Conc: 48.41 ppb



#16 fluorobenzene #2

R.T.: 15.141 min
Delta R.T.: -0.007 min
Response: 40902967
Conc: 48.56 ppb



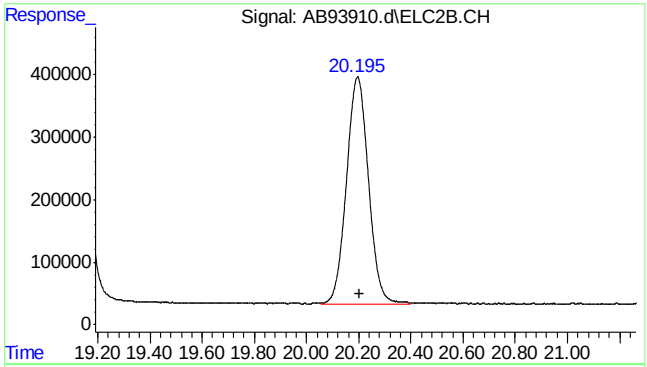
#17 toluene #2

R.T.: 19.097 min
Delta R.T.: -0.009 min
Response: 54478849
Conc: 47.65 ppb

7.3.2

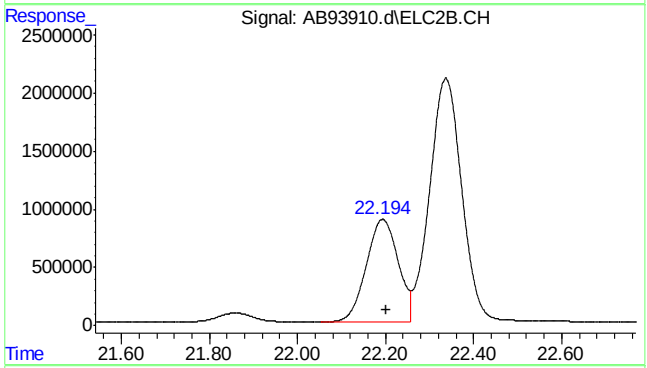
7

SGS ACCUTEST MC45611



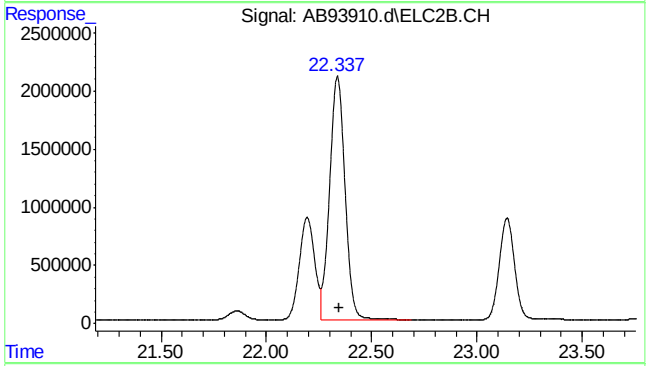
#18 2,3,4-trifluorotoluene #2

R.T.: 20.195 min
Delta R.T.: -0.008 min
Response: 21369986
Conc: 45.77 ppb



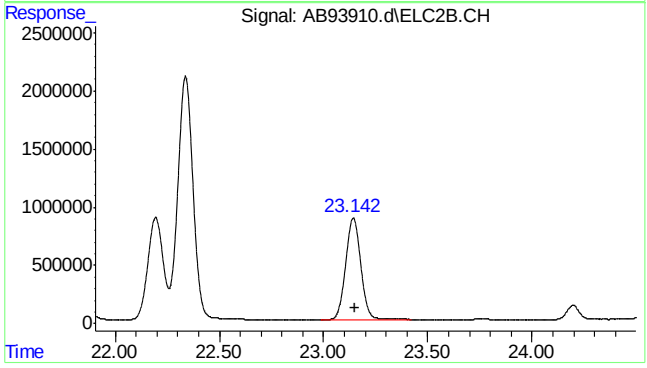
#19 ethylbenzene #2

R.T.: 22.193 min
Delta R.T.: -0.008 min
Response: 44581308
Conc: 48.15 ppb



#20 m,p-xylene #2

R.T.: 22.337 min
Delta R.T.: -0.007 min
Response: 106977550
Conc: 100.85 ppb



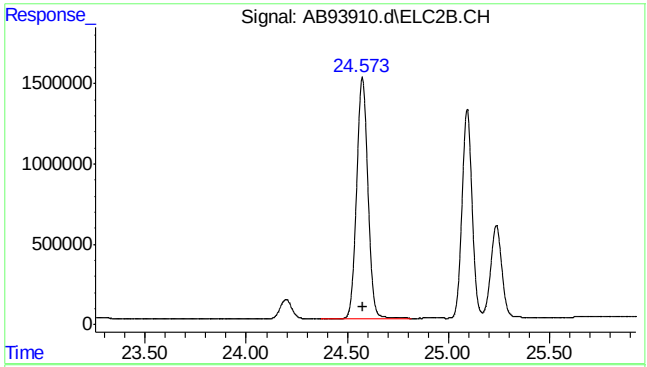
#21 o-xylene #2

R.T.: 23.142 min
Delta R.T.: -0.007 min
Response: 44433072
Conc: 47.57 ppb

7.3.2

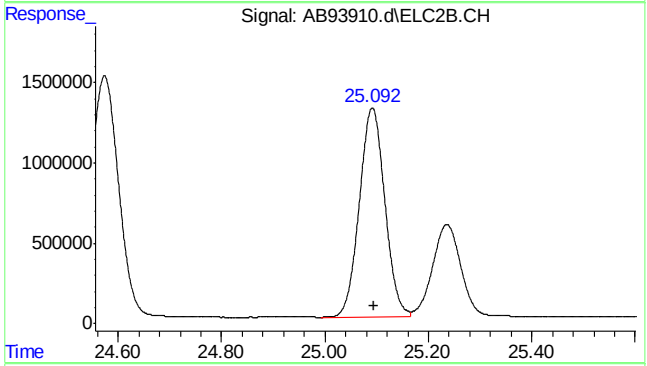
7

SGS ACCUTEST MC45611



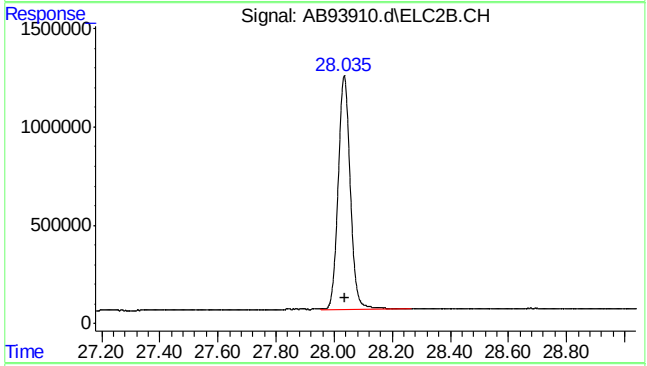
#22 1,3,5-trimethylbenzene #2

R.T.: 24.573 min
Delta R.T.: -0.006 min
Response: 58065617
Conc: 44.44 ppb



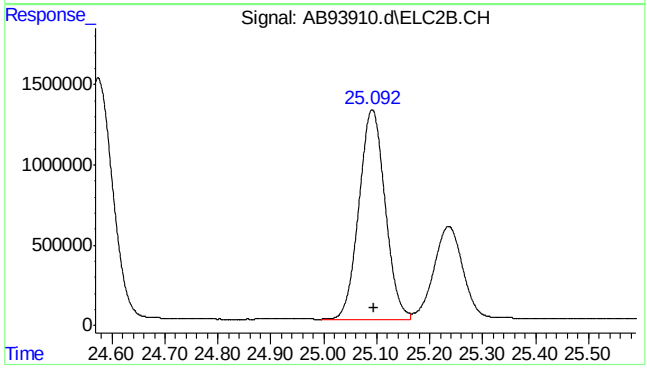
#23 1,2,4-trimethylbenzene #2

R.T.: 25.091 min
Delta R.T.: -0.005 min
Response: 44671714
Conc: 46.68 ppb



#24 naphthalene #2

R.T.: 28.035 min
Delta R.T.: -0.004 min
Response: 34360447
Conc: 47.53 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44741348
Conc: 46.70 ppb m

7.3.2

7

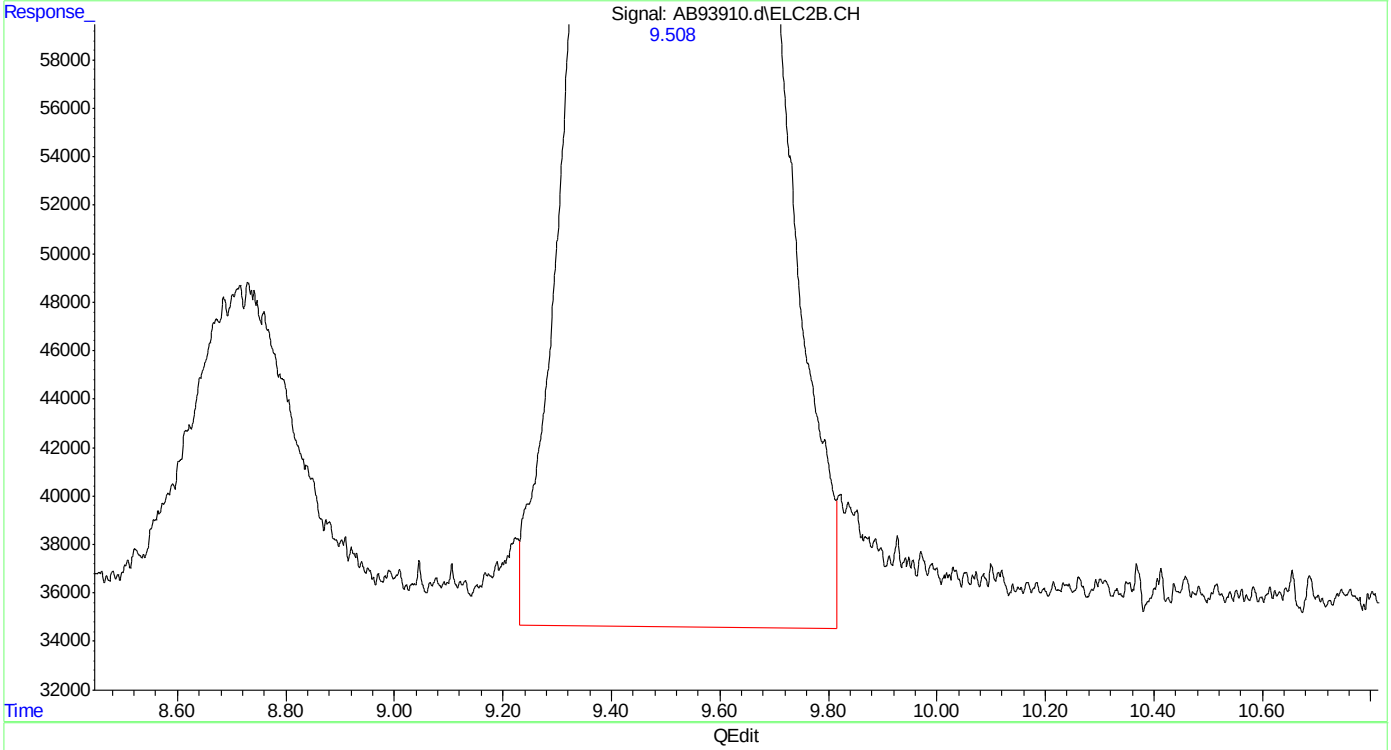
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93910.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:52:15
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:33 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.509min 52.012 ppb
response 26237546

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:06:16 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93910.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 15:52:15
Operator : tonyf
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Misc : gc26197,gab5159,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:33 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
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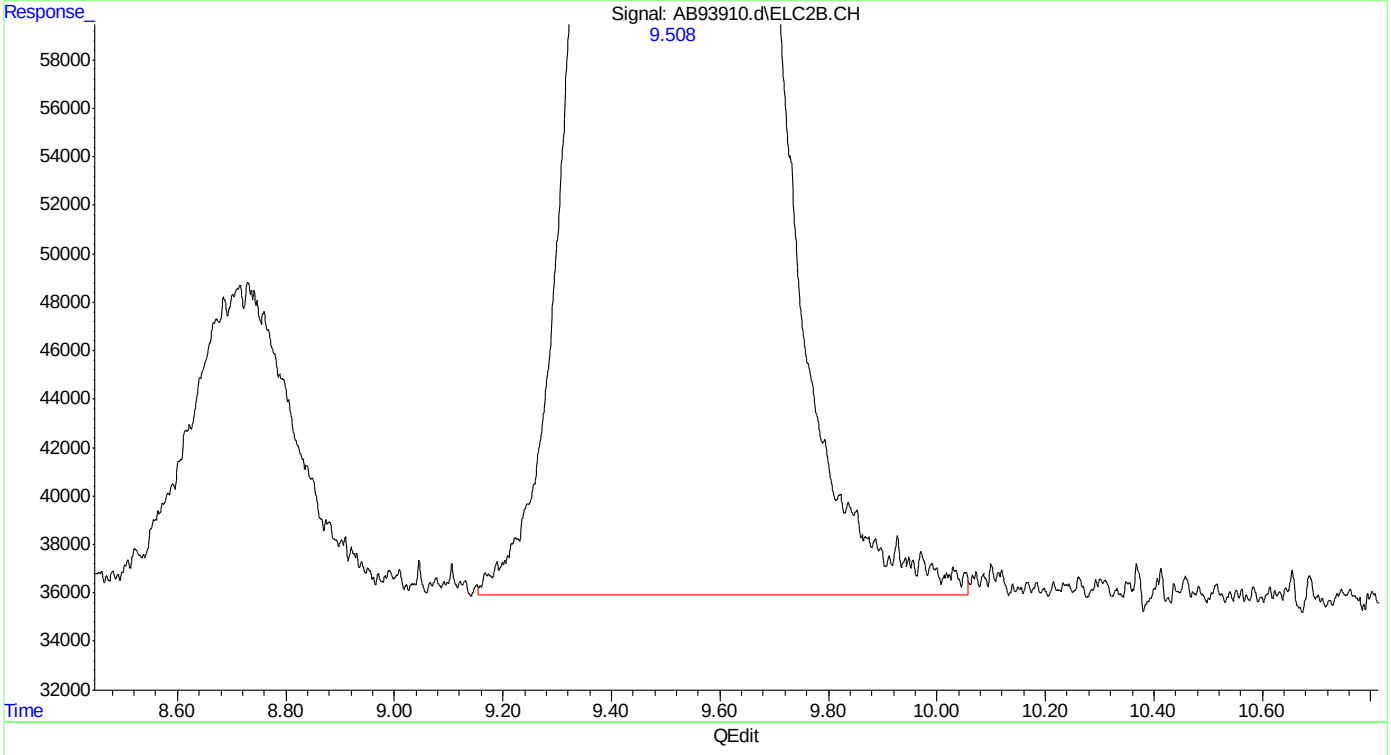
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.508min 51.708 ppb m
response 26084221

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:06:21 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93910.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 15:52:15
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:33 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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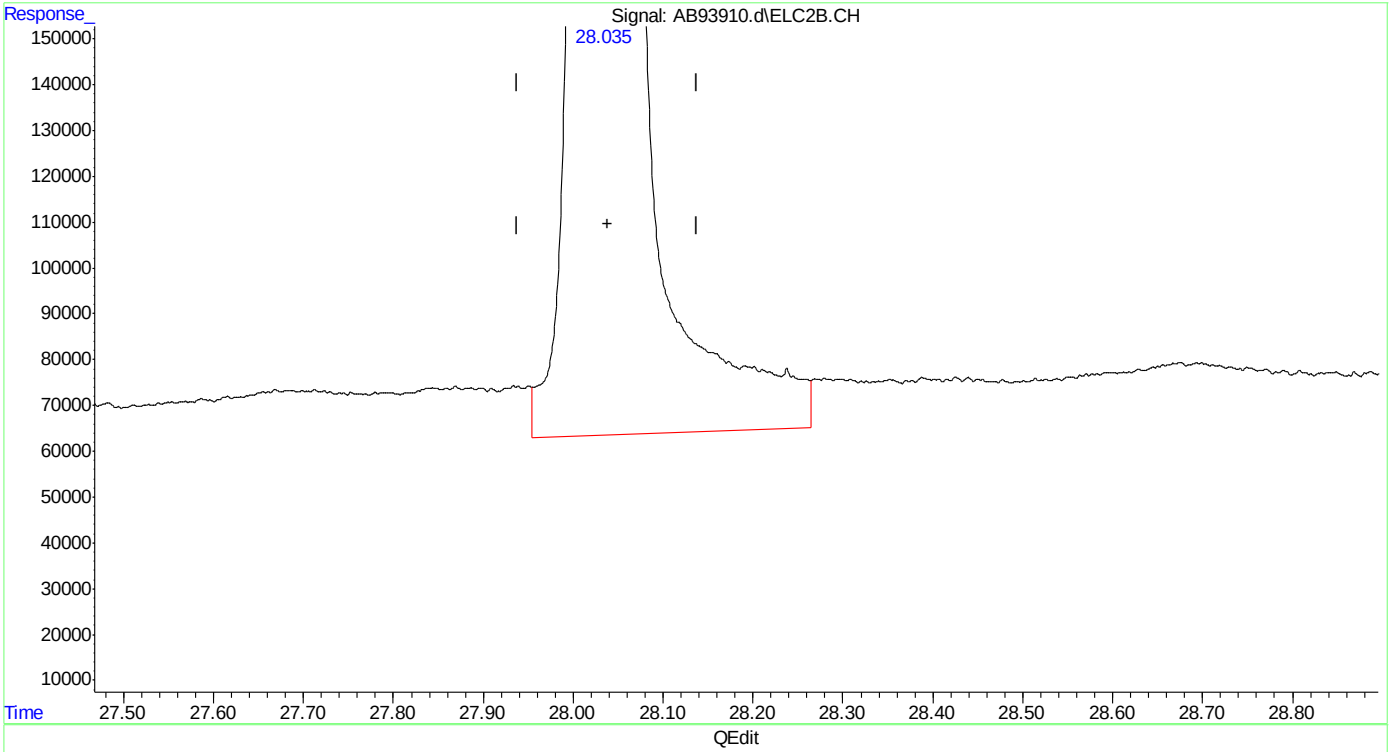

(24) naphthalene #2

28.035min 50.142 ppb

response 36248153

(+) = Expected Retention Time

ab160429vph.M Mon May 02 07:06:27 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93910.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 15:52:15
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:33 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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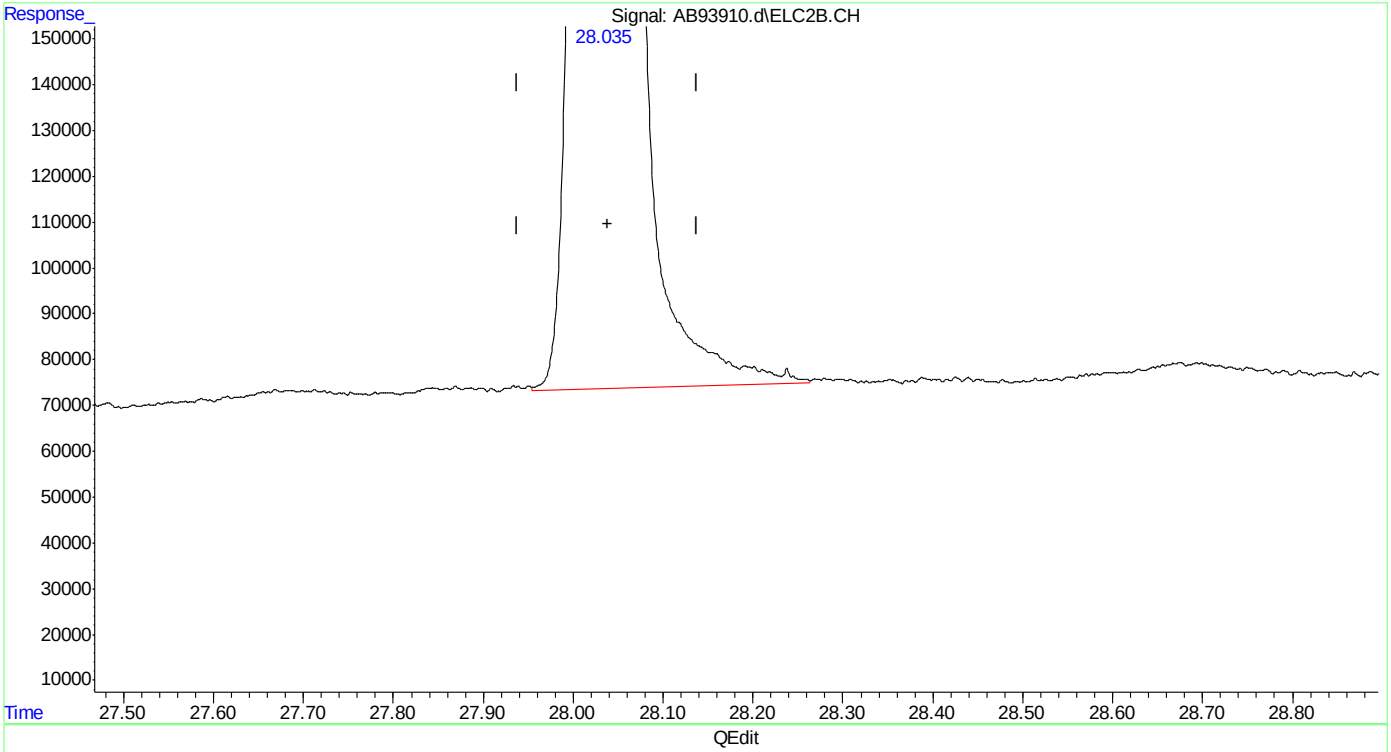


(24) naphthalene #2

28.035min 47.531 ppb m

response 34360447

(+) = Expected Retention Time

ab160429vph.M Mon May 02 07:06:32 2016

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93917.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 09:34:42
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26201,gab5160,20,,100,20,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 10:06:55 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	15.142	24401063	55.439 ppb	
Spiked Amount 50.000		Recovery	= 110.88%	
6) s 2,3,4-trifluorotoluene	20.197	22033117	53.746 ppb	
Spiked Amount 50.000		Recovery	= 107.49%	
16) s fluorobenzene #2	15.140	46980337	55.780 ppb	
Spiked Amount 50.000		Recovery	= 111.56%	
18) s 2,3,4-trifluorotoluen...	20.195	24691872	52.887 ppb	
Spiked Amount 50.000		Recovery	= 105.77%	
Target Compounds				
1) h rt5.5-7	6.420	18160340	45.230 ppb	m
2) h rt7/10	8.720	21091439	52.530 ppb	m
3) h rt10/13	13.870	23147298	57.651 ppb	m
8) h rt20/25	21.870	29697432	47.402 ppb	m
10) h decane	24.200	30288262	48.345 ppb	
11) h butylcyclohexane	25.240	32032137	51.128 ppb	
14) mtbe #2	9.497	27082711	53.687 ppb	m
15) benzene #2	14.637	70748235	54.353 ppb	
17) toluene #2	19.097	60065382	52.538 ppb	
19) ethylbenzene #2	22.193	49462058	53.423 ppb	
20) m,p-xylene #2	22.337	117773719	111.032 ppb	
21) o-xylene #2	23.142	49892502	53.410 ppb	
22) t 1,3,5-trimethylbenzen...	24.573	68010812	52.055 ppb	
23) 1,2,4-trimethylbenzen...	25.091	49229841	51.440 ppb	
24) naphthalene #2	28.035	33640807	46.535 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	49249074	51.406 ppb	m

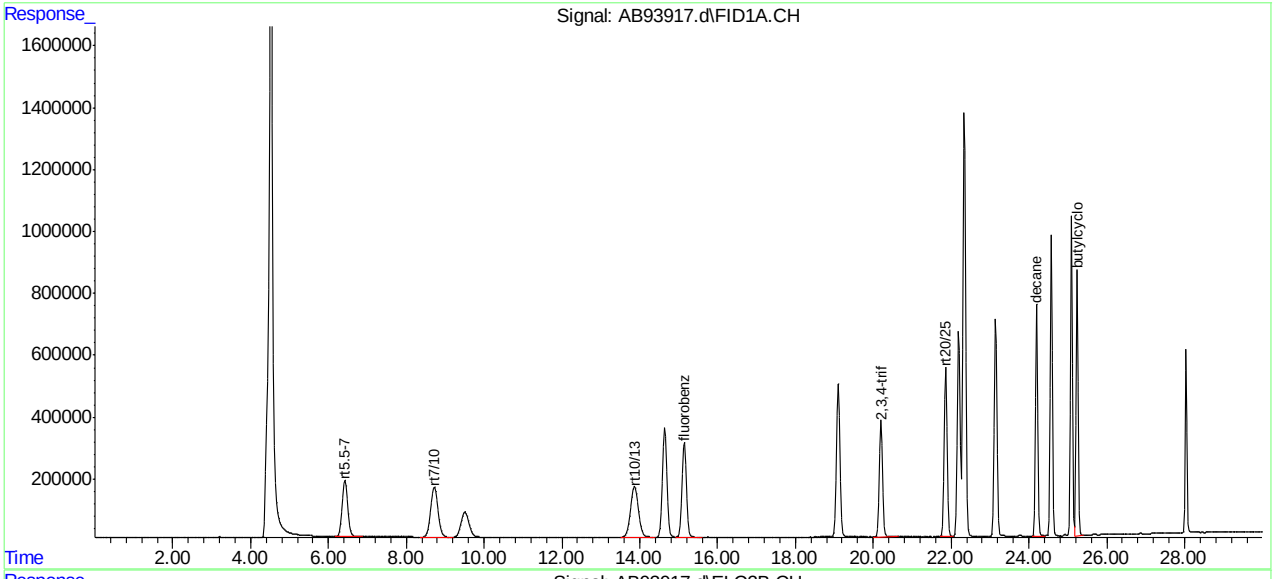
(f)=RT Delta > 1/2 Window (m)=manual int.

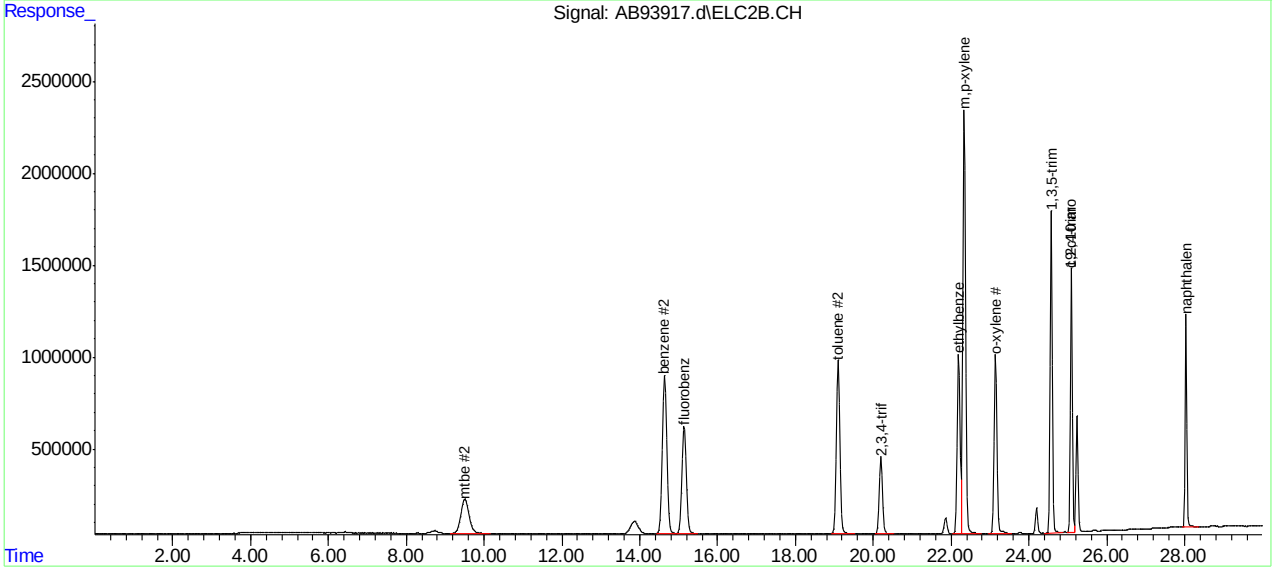
Quantitation Report (QT Reviewed)

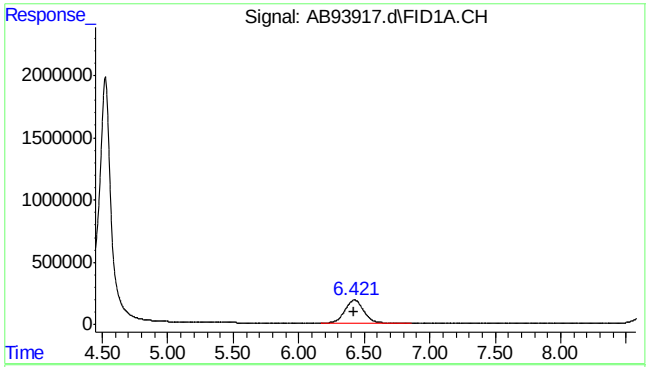
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93917.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 09:34:42
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26201,gab5160,20,,100,20,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 10:06:55 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

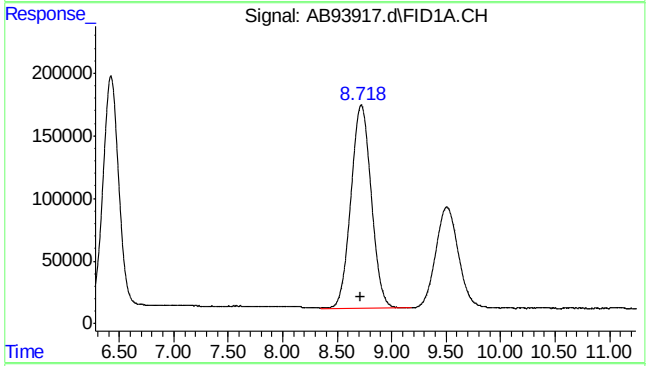






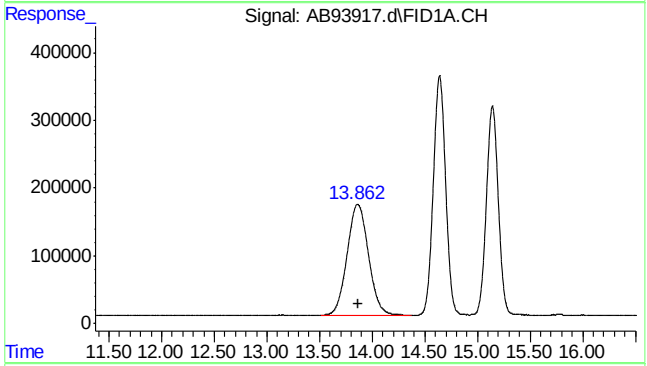
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 18160340
Conc: 45.23 ppb m



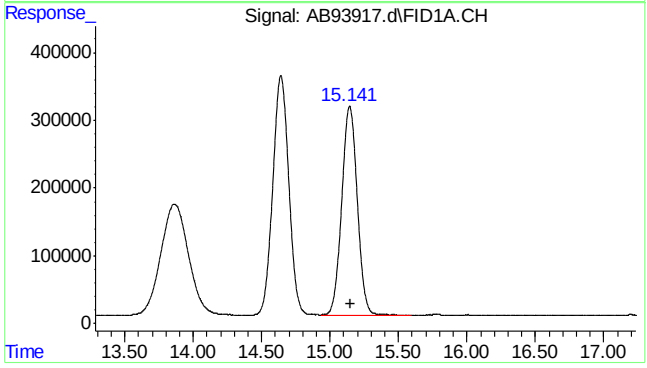
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 21091439
Conc: 52.53 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 23147298
Conc: 57.65 ppb m



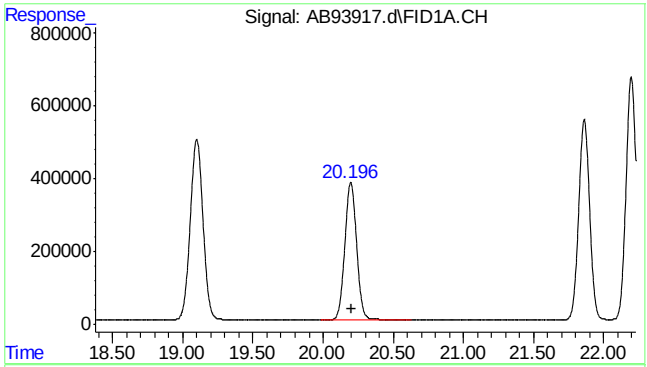
#4 fluorobenzene

R.T.: 15.142 min
Delta R.T.: -0.009 min
Response: 24401063
Conc: 55.44 ppb

7.3.3

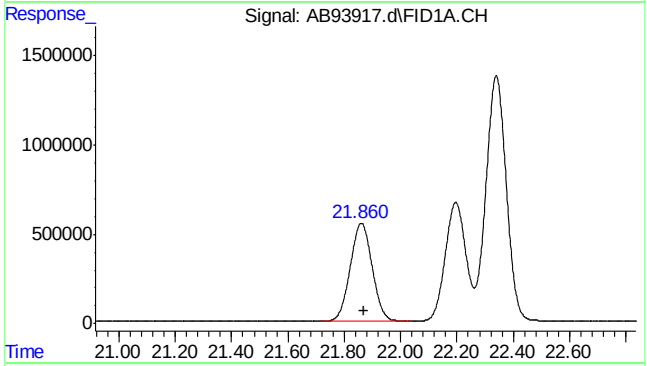
7

SGS ACCUTEST MC45611



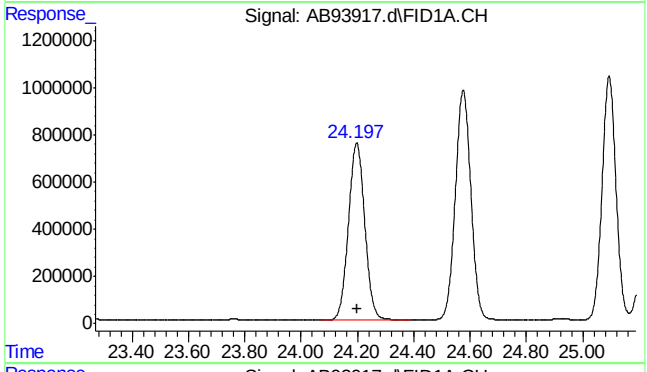
#6 2,3,4-trifluorotoluene

R.T.: 20.197 min
Delta R.T.: -0.008 min
Response: 22033117
Conc: 53.75 ppb



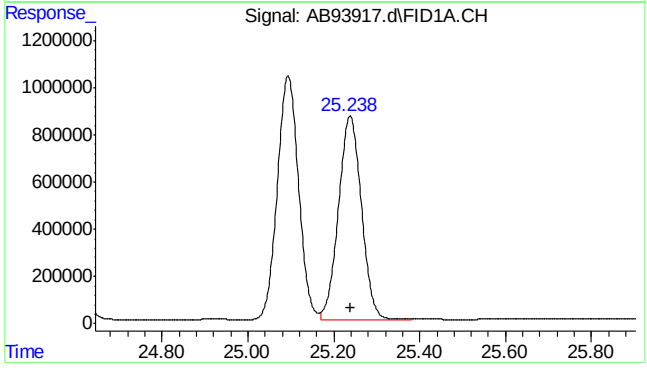
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 29697432
Conc: 47.40 ppb m



#10 decane

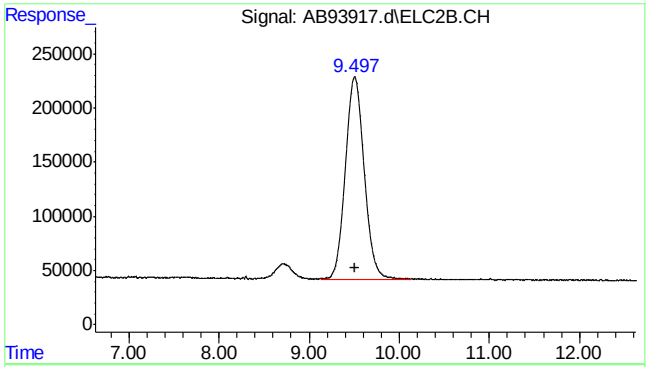
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 30288262
Conc: 48.34 ppb



#11 butylcyclohexane

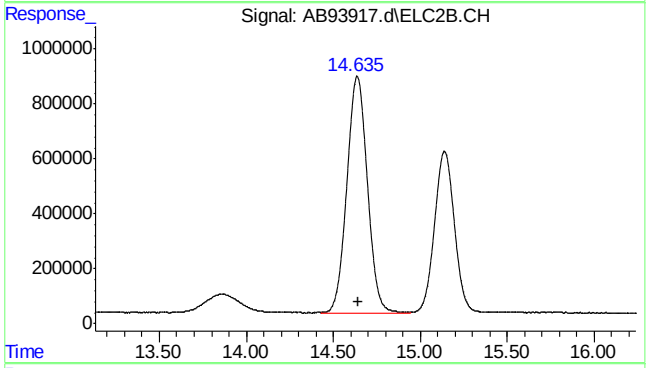
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 32032137
Conc: 51.13 ppb

SGS ACCUTEST MC45611



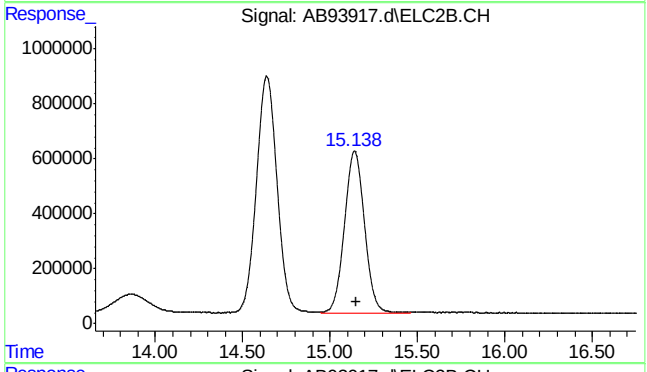
#14 mtbe #2

R.T.: 9.497 min
Delta R.T.: -0.014 min
Response: 27082711
Conc: 53.69 ppb m



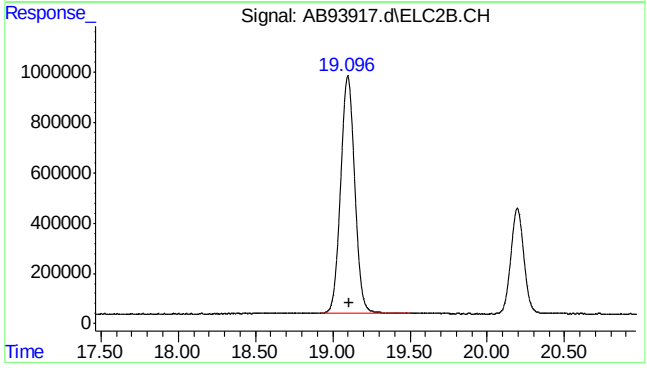
#15 benzene #2

R.T.: 14.637 min
Delta R.T.: -0.009 min
Response: 70748235
Conc: 54.35 ppb



#16 fluorobenzene #2

R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 46980337
Conc: 55.78 ppb

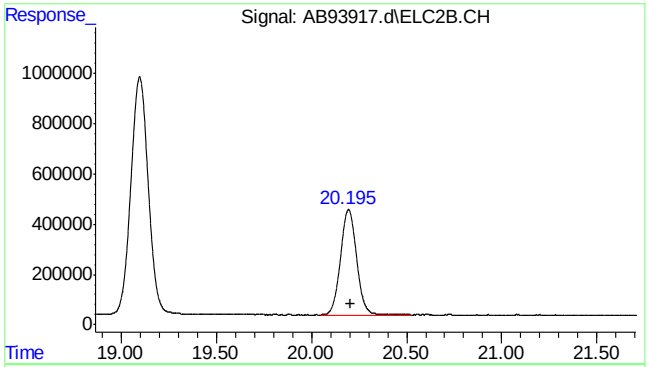


#17 toluene #2

R.T.: 19.097 min
Delta R.T.: -0.009 min
Response: 60065382
Conc: 52.54 ppb

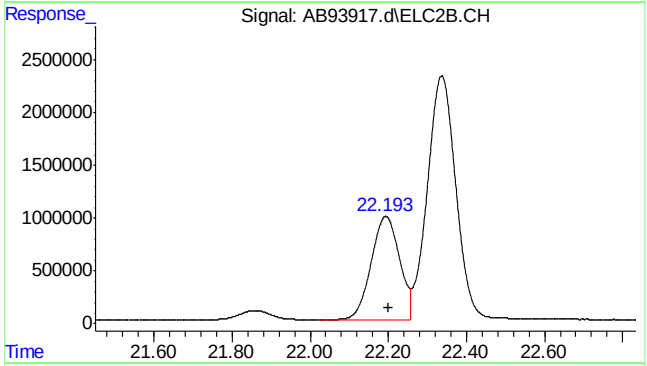
7.3.3

7



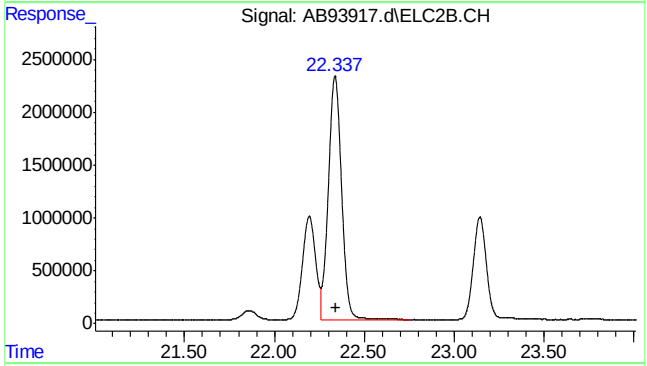
#18 2,3,4-trifluorotoluene #2

R.T.: 20.195 min
Delta R.T.: -0.008 min
Response: 24691872
Conc: 52.89 ppb



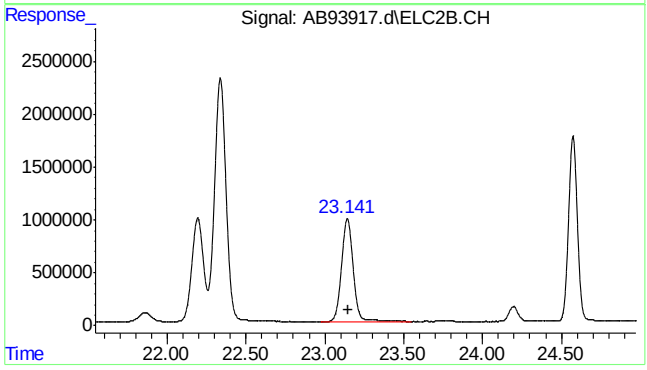
#19 ethylbenzene #2

R.T.: 22.193 min
Delta R.T.: -0.008 min
Response: 49462058
Conc: 53.42 ppb



#20 m,p-xylene #2

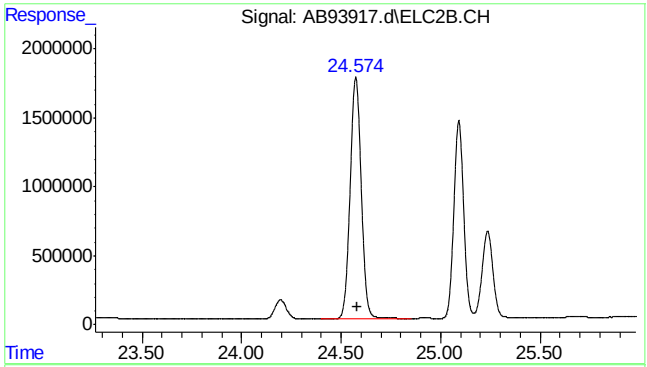
R.T.: 22.337 min
Delta R.T.: -0.007 min
Response: 117773719
Conc: 111.03 ppb



#21 o-xylene #2

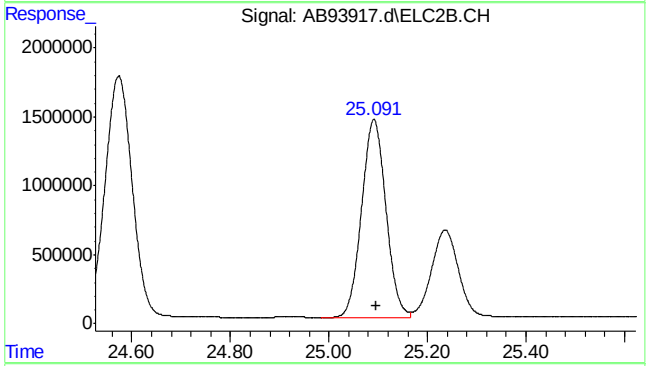
R.T.: 23.142 min
Delta R.T.: -0.008 min
Response: 49892502
Conc: 53.41 ppb

SGS ACCUTEST MC45611



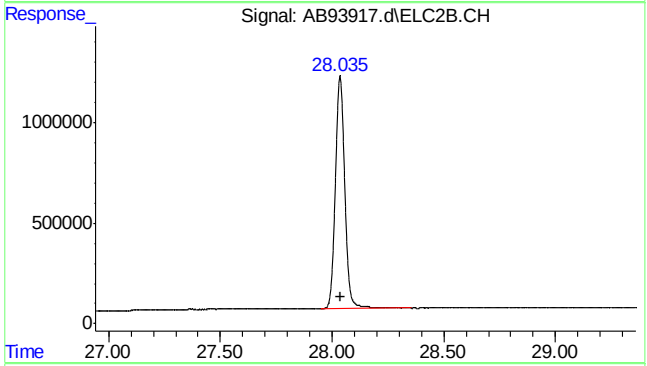
#22 1,3,5-trimethylbenzene #2

R.T.: 24.573 min
Delta R.T.: -0.006 min
Response: 68010812
Conc: 52.06 ppb



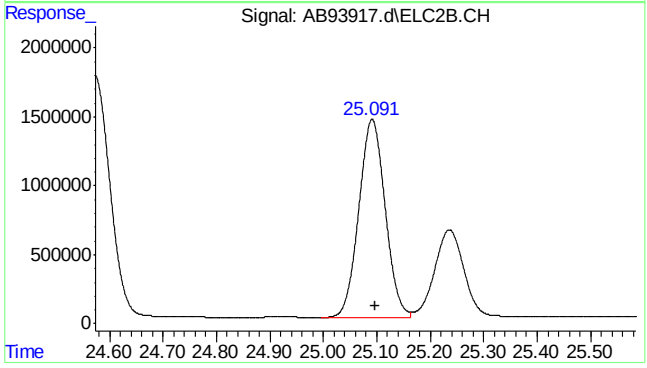
#23 1,2,4-trimethylbenzene #2

R.T.: 25.091 min
Delta R.T.: -0.005 min
Response: 49229841
Conc: 51.44 ppb



#24 naphthalene #2

R.T.: 28.035 min
Delta R.T.: -0.003 min
Response: 33640807
Conc: 46.54 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 49249074
Conc: 51.41 ppb m

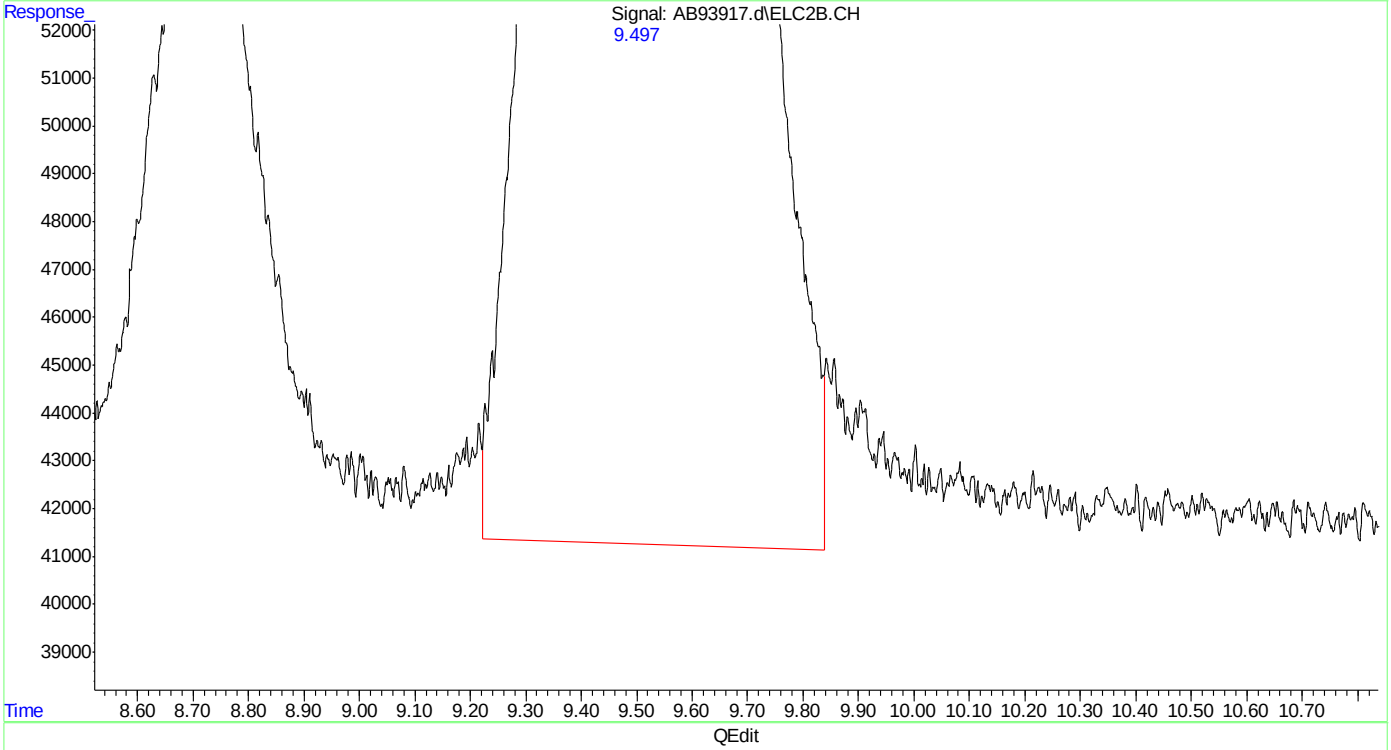
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93917.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 09:34:42
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26201,gab5160,20,,100,20,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 10:05:12 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

9.498min 53.989 ppb

response 27235066

(+) = Expected Retention Time

ab160502vph.M Mon May 02 10:06:12 2016

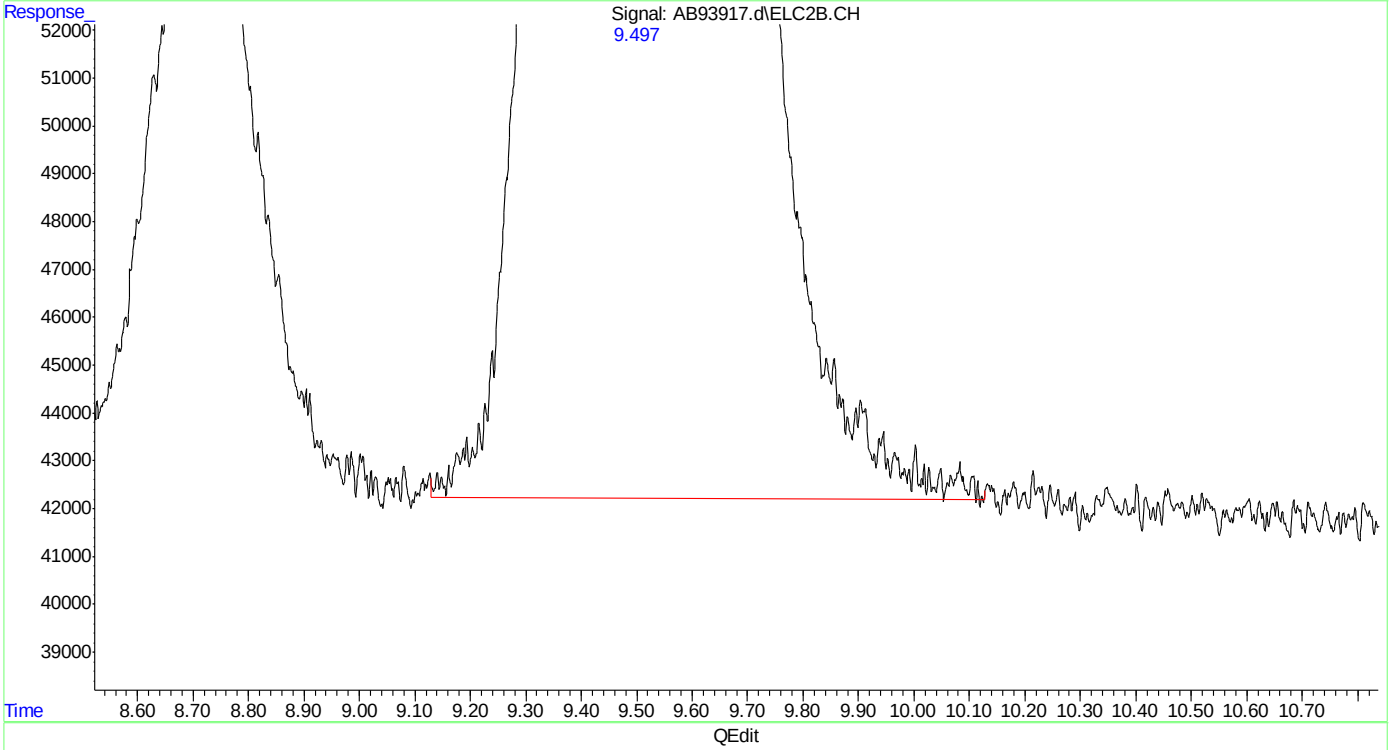
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93917.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 09:34:42
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26201,gab5160,20,,100,20,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 10:05:12 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.497min 53.687 ppb m
response 27082711

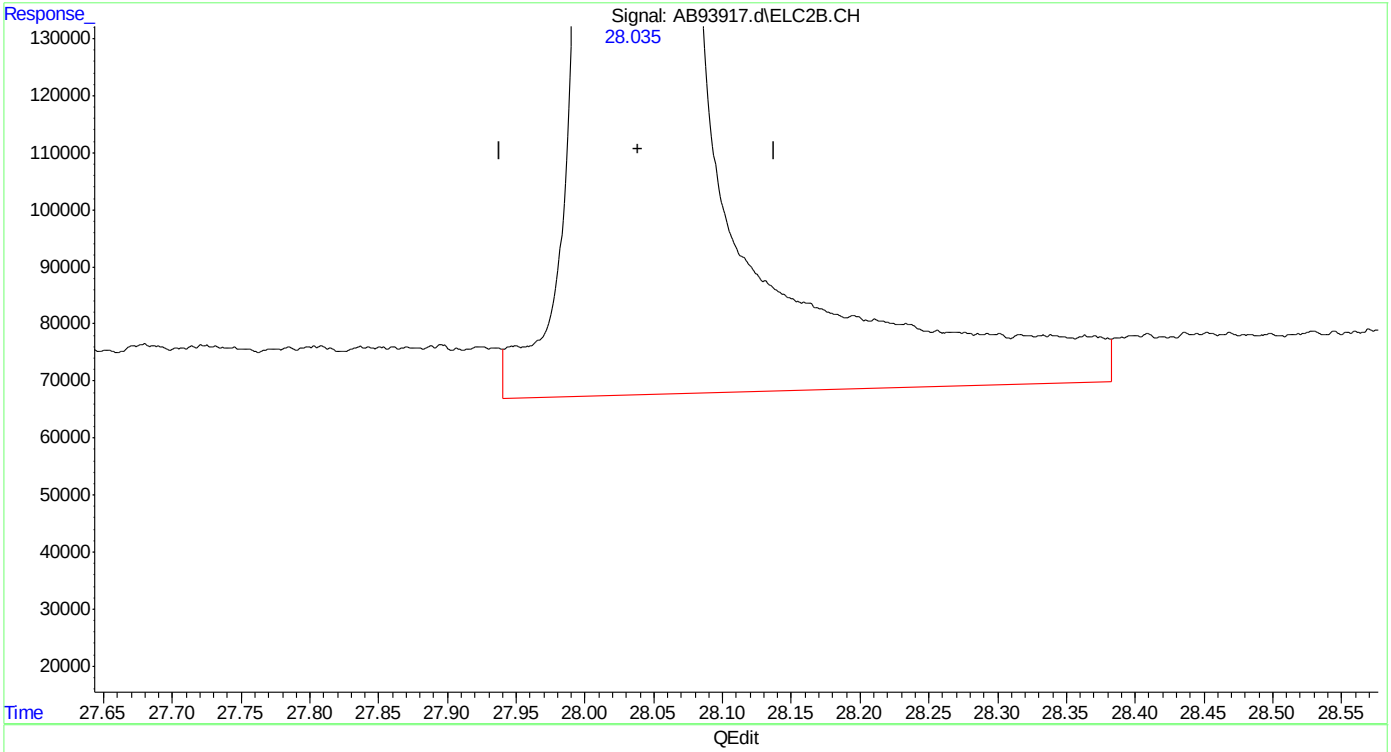
(+) = Expected Retention Time
ab160502vph.M Mon May 02 10:06:15 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93917.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 09:34:42
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26201,gab5160,20,,100,20,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 10:05:12 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.036min 49.603 ppb

response 35858574

(+) = Expected Retention Time

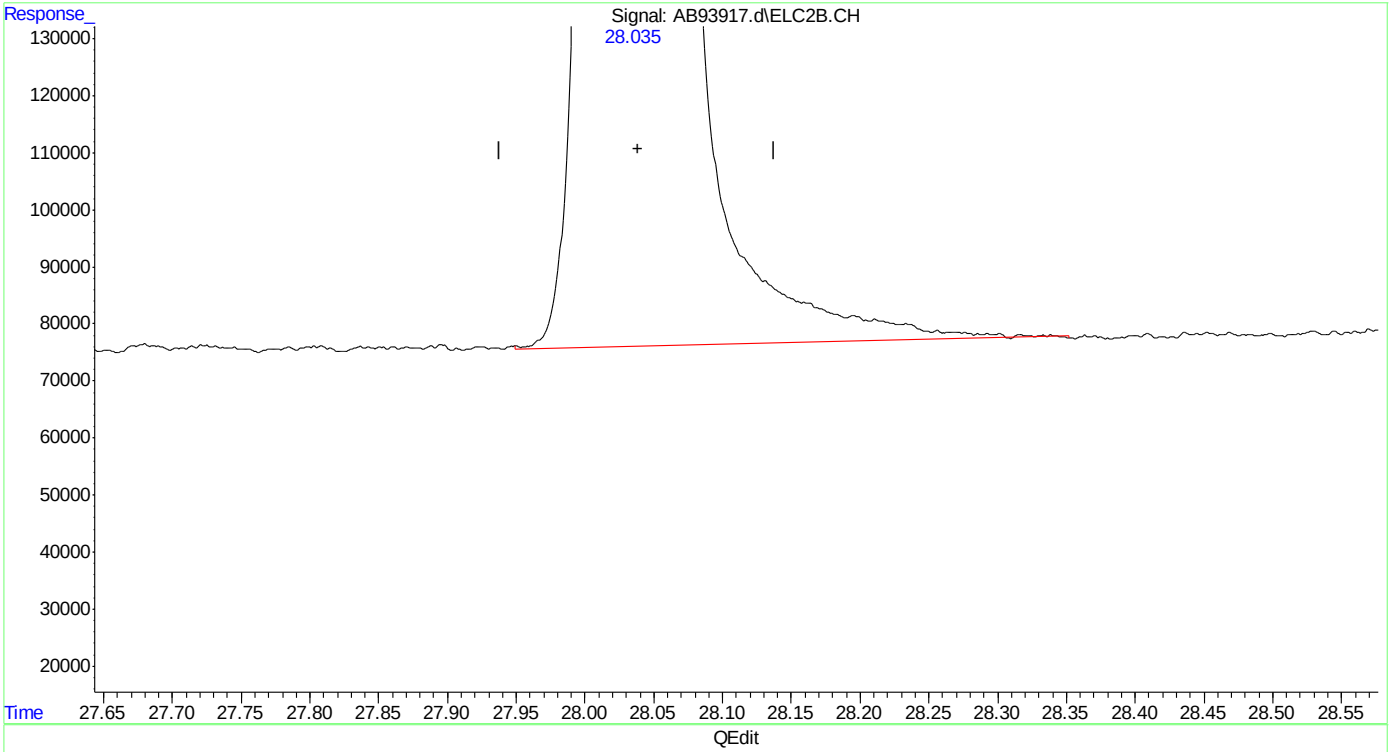
ab160502vph.M Mon May 02 10:06:25 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93917.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 09:34:42
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26201,gab5160,20,,100,20,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 10:05:12 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.035min 46.535 ppb m

response 33640807

(+) = Expected Retention Time

ab160502vph.M Mon May 02 10:06:41 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93918.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:12:52
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26201,gab5160,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 07:23:23 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	15.140	24338182	55.297 ppb	
Spiked Amount 50.000		Recovery	= 110.59%	
6) s 2,3,4-trifluorotoluene	20.196	22196778	54.145 ppb	
Spiked Amount 50.000		Recovery	= 108.29%	
16) s fluorobenzene #2	15.137	46915382	55.703 ppb	
Spiked Amount 50.000		Recovery	= 111.41%	
18) s 2,3,4-trifluorotoluen...	20.193	24799798	53.118 ppb	
Spiked Amount 50.000		Recovery	= 106.24%	
Target Compounds				
1) h rt5.5-7	6.420	18024338	44.891 ppb	m
2) h rt7/10	8.720	21093678	52.536 ppb	m
3) h rt10/13	13.870	23334654	58.117 ppb	m
8) h rt20/25	21.870	30167532	48.152 ppb	m
10) h decane	24.200	30954753	49.409 ppb	
11) h butylcyclohexane	25.240	33004280	52.680 ppb	
14) mtbe #2	9.503	27990402	55.487 ppb	m
15) benzene #2	14.635	71110947	54.631 ppb	
17) toluene #2	19.096	60884214	53.254 ppb	
19) ethylbenzene #2	22.192	50134432	54.150 ppb	
20) m,p-xylene #2	22.335	119124788	112.306 ppb	
21) o-xylene #2	23.140	49948802	53.470 ppb	
22) t 1,3,5-trimethylbenzen...	24.572	69124862	52.908 ppb	
23) 1,2,4-trimethylbenzen...	25.090	50202543	52.456 ppb	
24) naphthalene #2	28.034	36103705	49.942 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	50189754	52.388 ppb	m

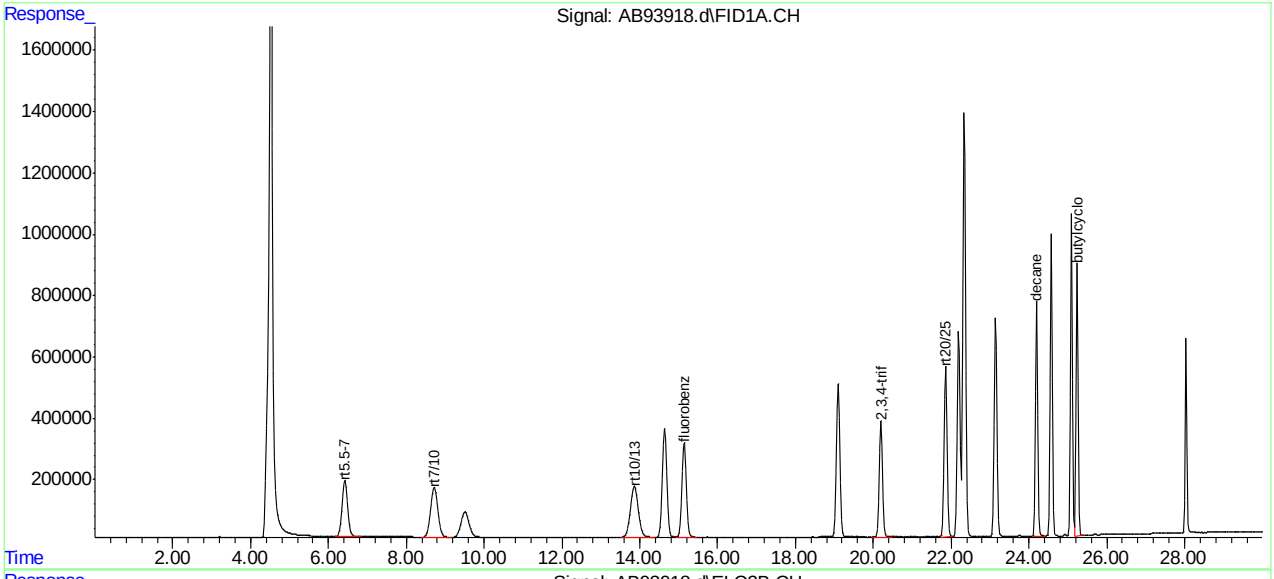
(f)=RT Delta > 1/2 Window (m)=manual int.

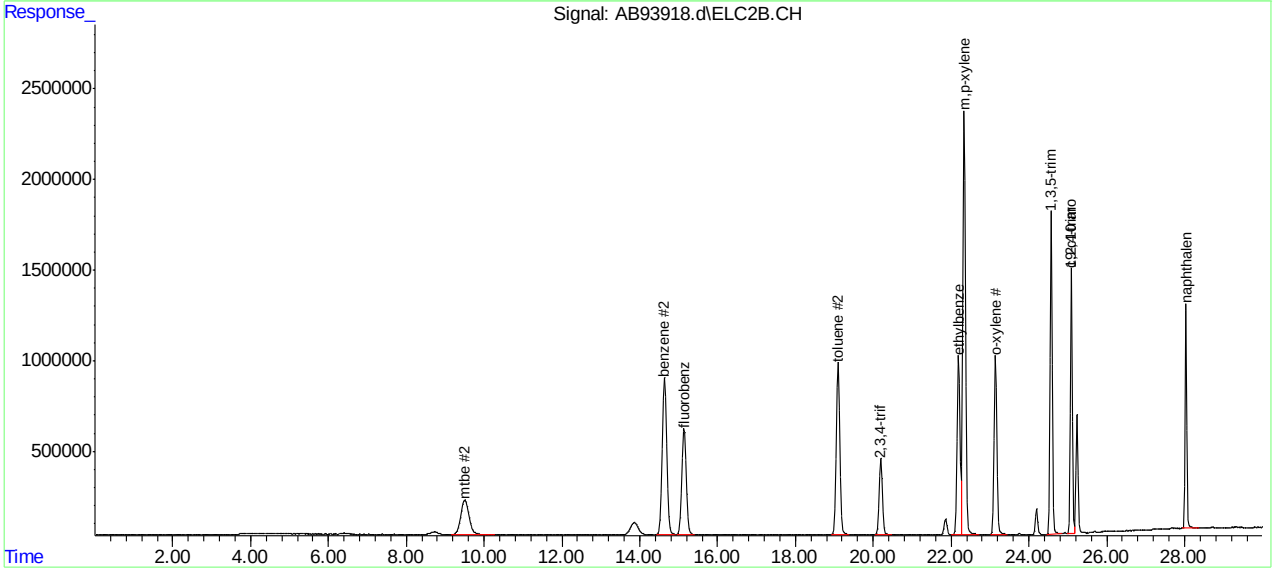
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93918.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:12:52
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26201,gab5160,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

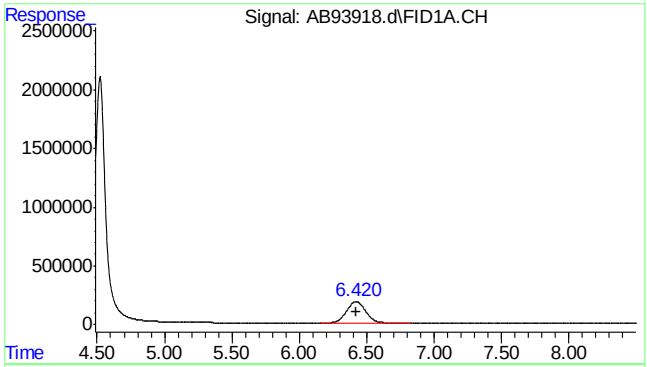
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 07:23:23 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



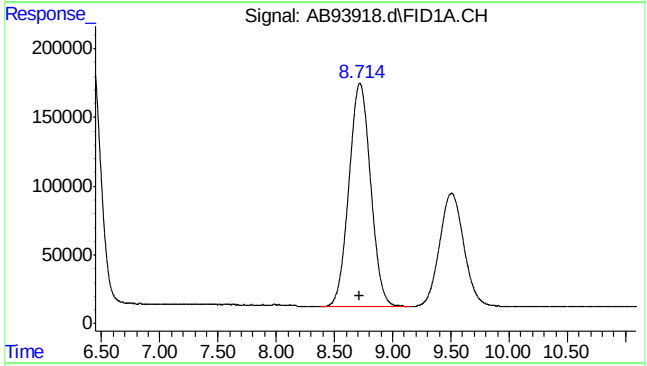


SGS ACCUTEST MC45611



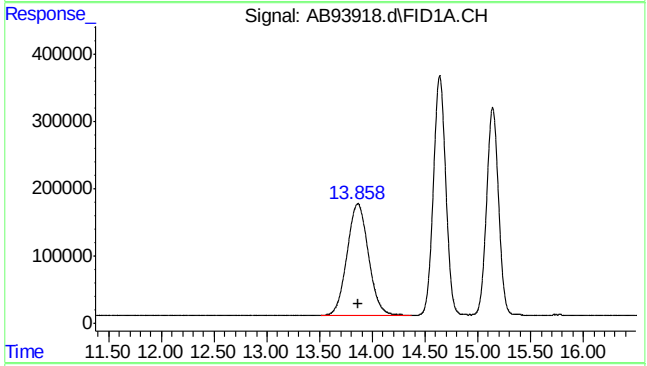
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 18024338
Conc: 44.89 ppb m



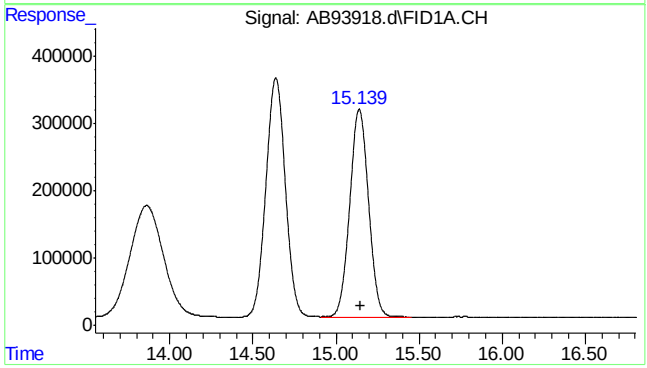
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 21093678
Conc: 52.54 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 23334654
Conc: 58.12 ppb m



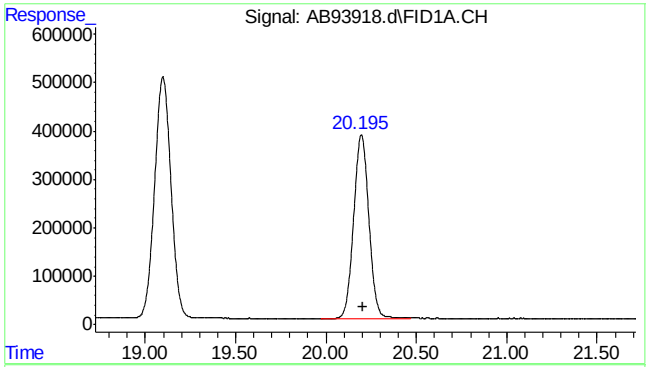
#4 fluorobenzene

R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 24338182
Conc: 55.30 ppb

7.3.4

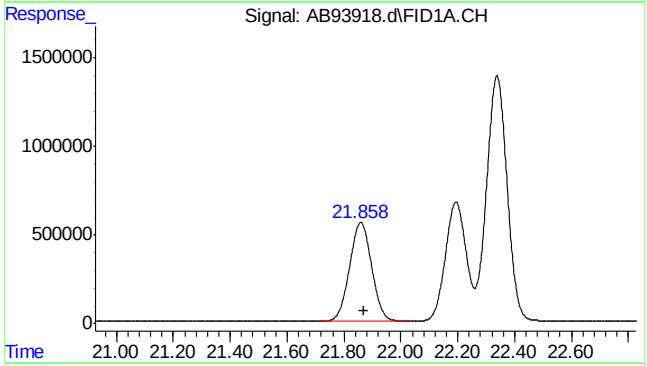
7

SGS ACCUTEST MC45611



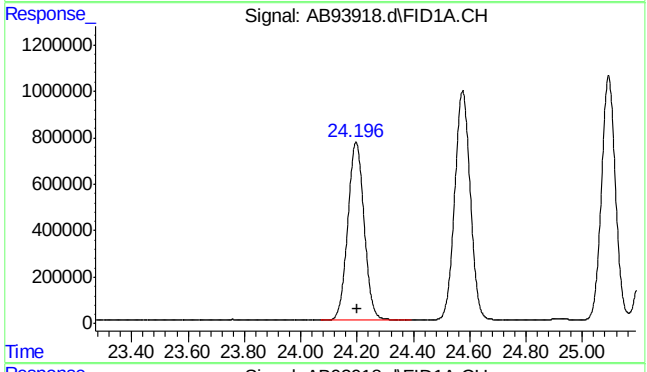
#6 2,3,4-trifluorotoluene

R.T.: 20.196 min
Delta R.T.: -0.010 min
Response: 22196778
Conc: 54.14 ppb



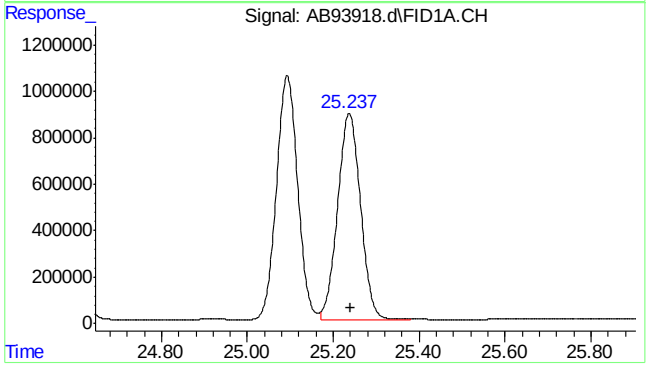
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 30167532
Conc: 48.15 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 30954753
Conc: 49.41 ppb



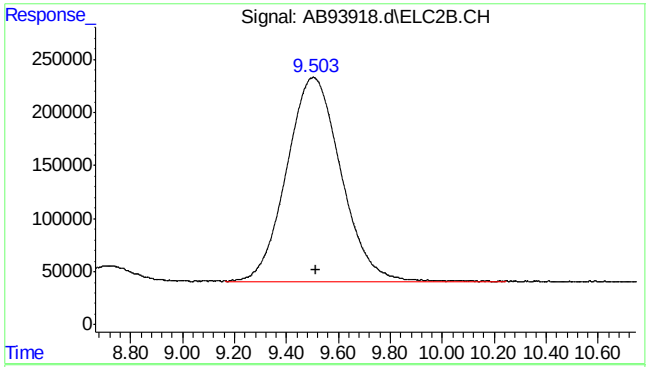
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 33004280
Conc: 52.68 ppb

7.3.4

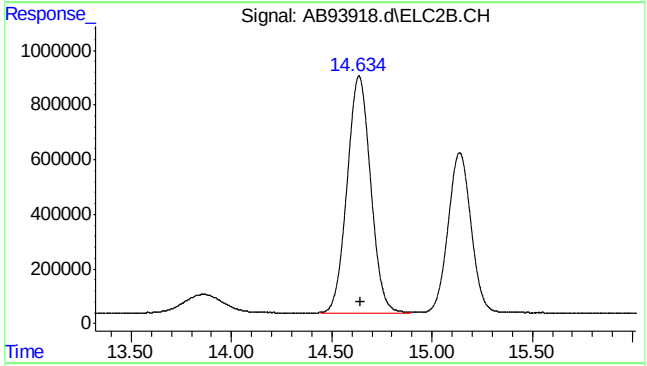
7

SGS ACCUTEST MC45611



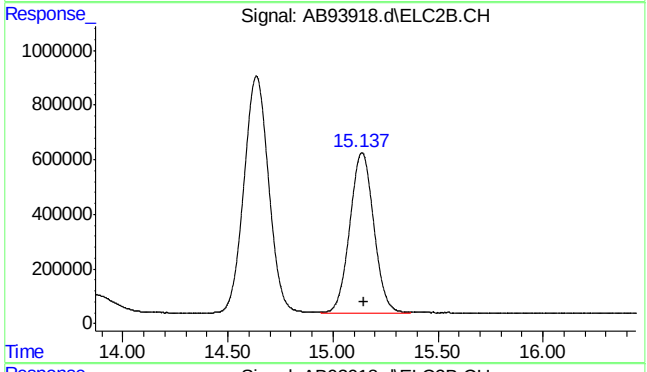
#14 mtbe #2

R.T.: 9.503 min
Delta R.T.: -0.008 min
Response: 27990402
Conc: 55.49 ppb m



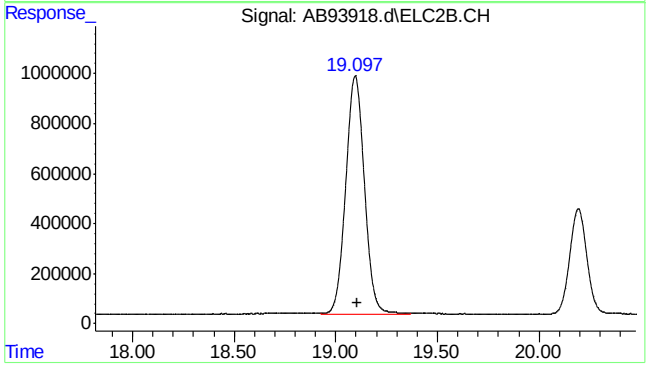
#15 benzene #2

R.T.: 14.635 min
Delta R.T.: -0.011 min
Response: 71110947
Conc: 54.63 ppb



#16 fluorobenzene #2

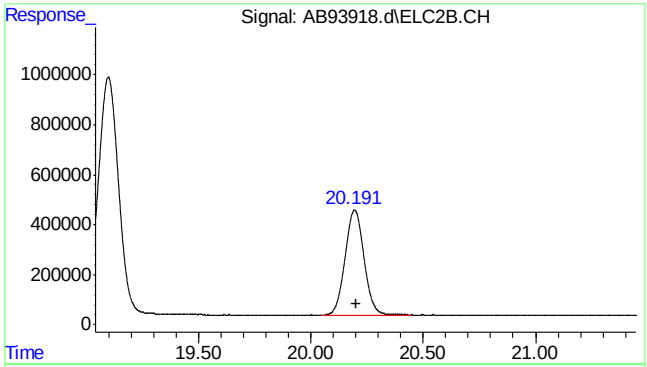
R.T.: 15.137 min
Delta R.T.: -0.011 min
Response: 46915382
Conc: 55.70 ppb



#17 toluene #2

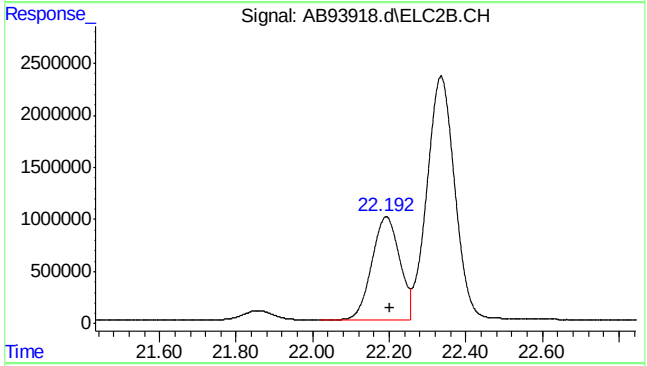
R.T.: 19.096 min
Delta R.T.: -0.010 min
Response: 60884214
Conc: 53.25 ppb

SGS ACCUTEST MC45611



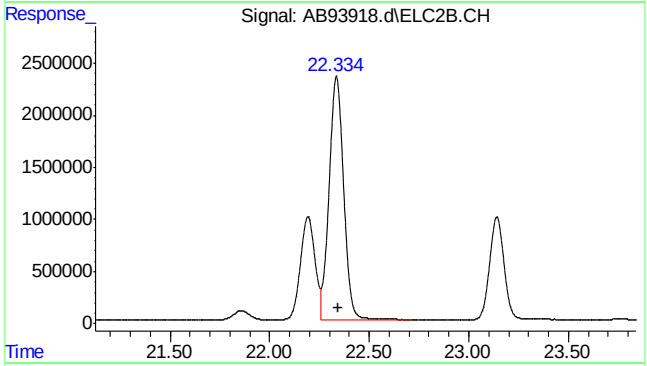
#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.010 min
Response: 24799798
Conc: 53.12 ppb



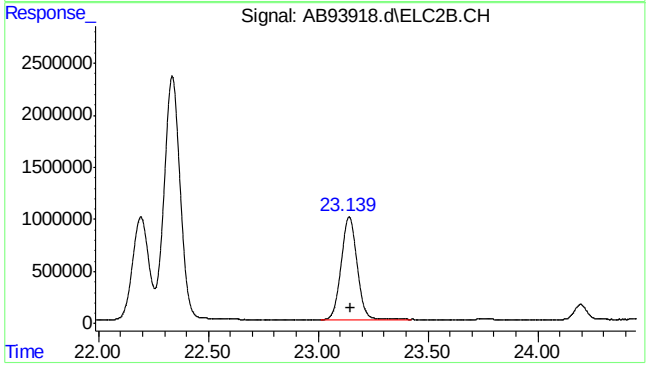
#19 ethylbenzene #2

R.T.: 22.192 min
Delta R.T.: -0.009 min
Response: 50134432
Conc: 54.15 ppb



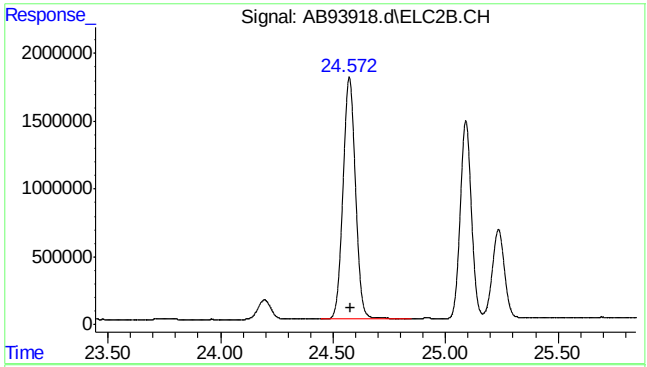
#20 m,p-xylene #2

R.T.: 22.335 min
Delta R.T.: -0.009 min
Response: 119124788
Conc: 112.31 ppb



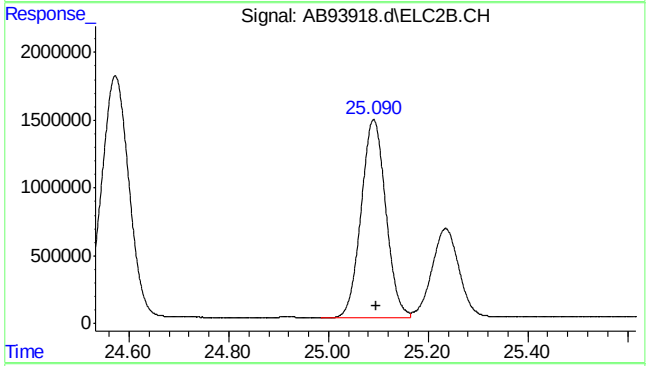
#21 o-xylene #2

R.T.: 23.140 min
Delta R.T.: -0.009 min
Response: 49948802
Conc: 53.47 ppb



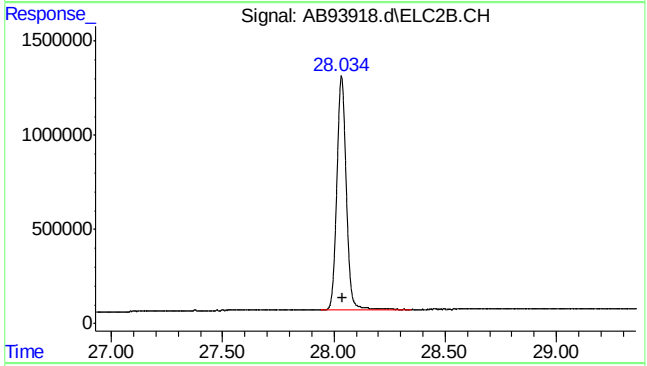
#22 1,3,5-trimethylbenzene #2

R.T.: 24.572 min
Delta R.T.: -0.007 min
Response: 69124862
Conc: 52.91 ppb



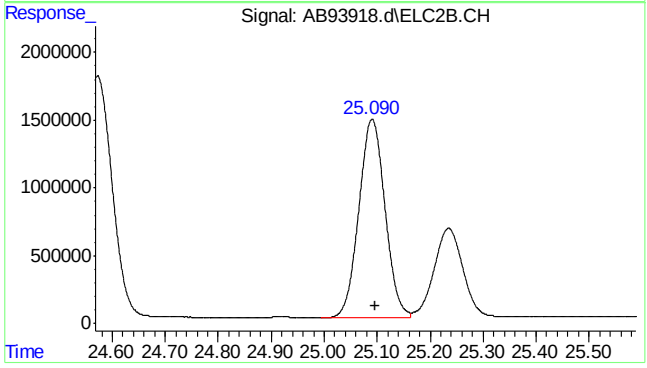
#23 1,2,4-trimethylbenzene #2

R.T.: 25.090 min
Delta R.T.: -0.006 min
Response: 50202543
Conc: 52.46 ppb



#24 naphthalene #2

R.T.: 28.034 min
Delta R.T.: -0.005 min
Response: 36103705
Conc: 49.94 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 50189754
Conc: 52.39 ppb m

7.3.4

7

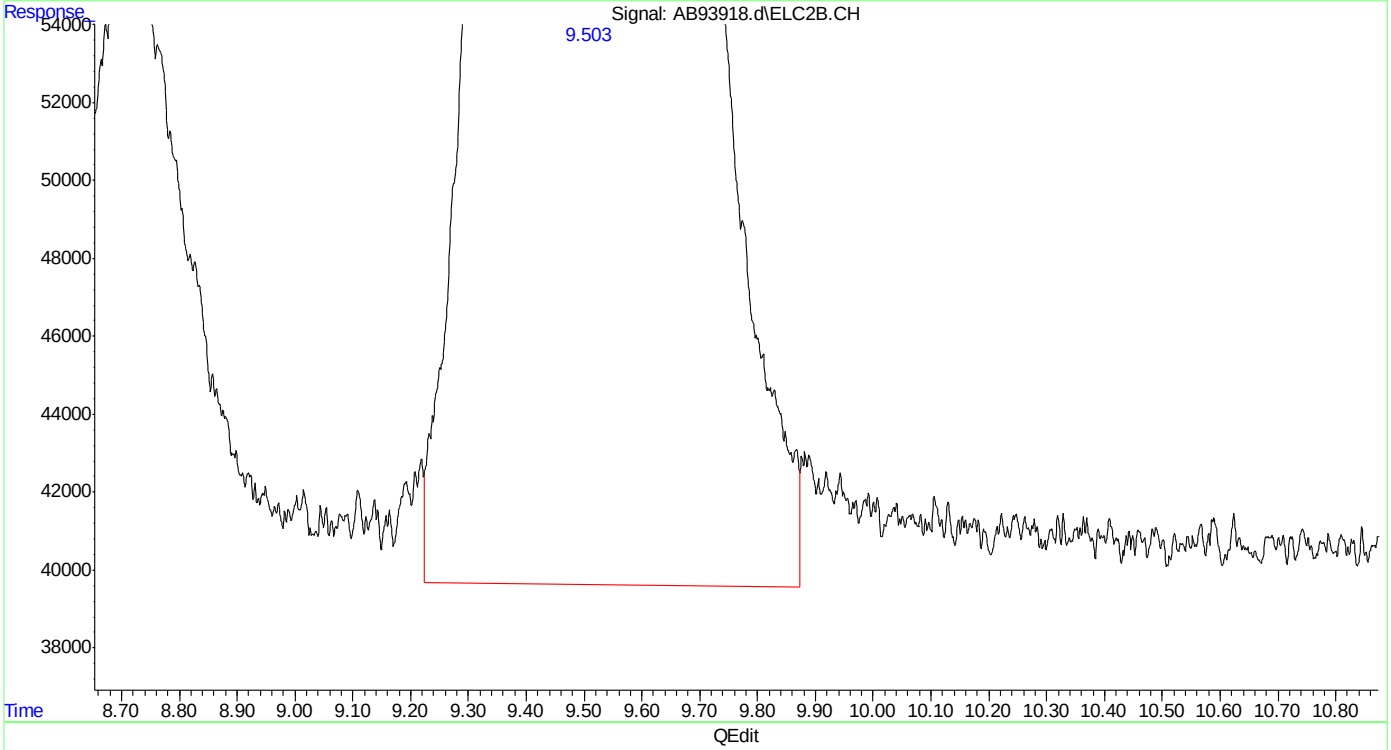
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93918.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 10:12:52
Operator  : tonyf
Sample    : bsd,s,vmavph,20
Misc      : gc26201,gab5160,20,,100,20,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

9.504min 55.972 ppb

response 28235011

(+) = Expected Retention Time

ab160502vph.M Tue May 03 07:22:51 2016

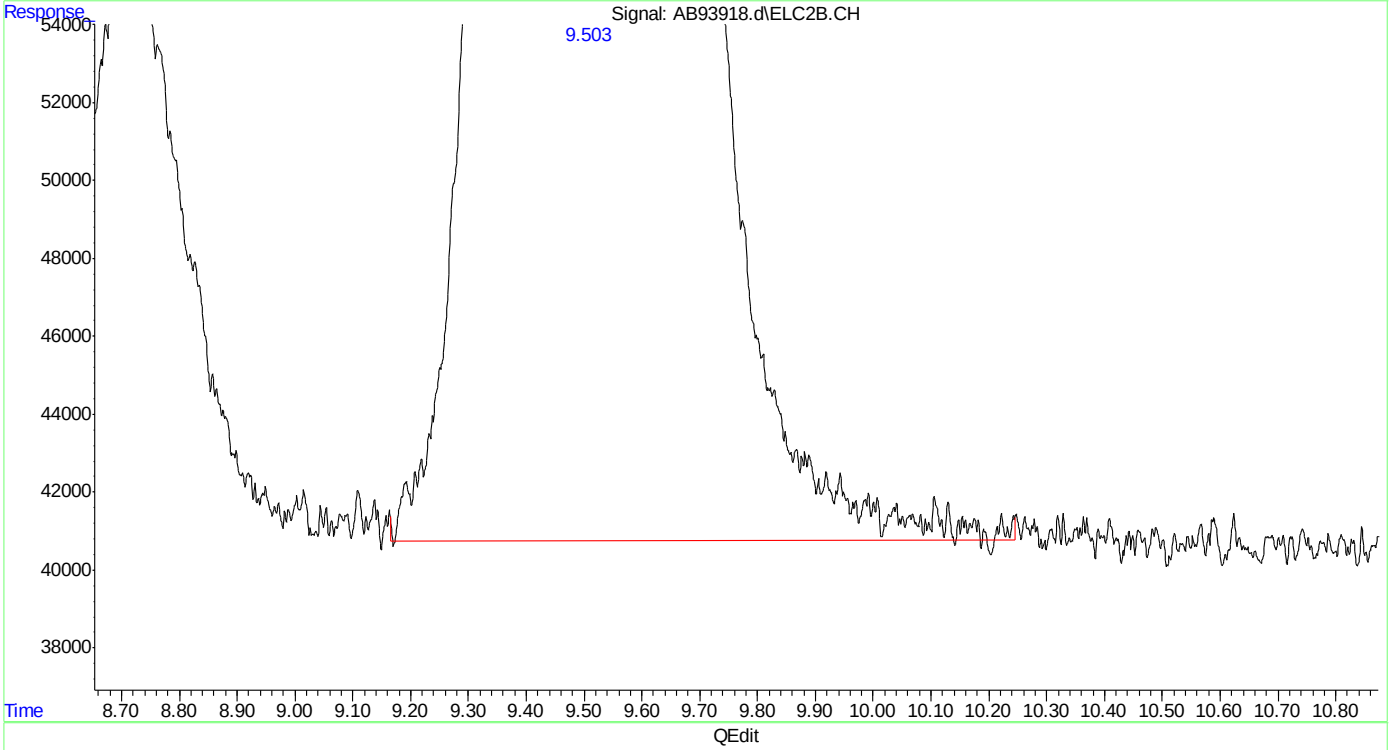
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93918.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:12:52
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26201,gab5160,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.503min 55.487 ppb m
response 27990402

(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:22:56 2016

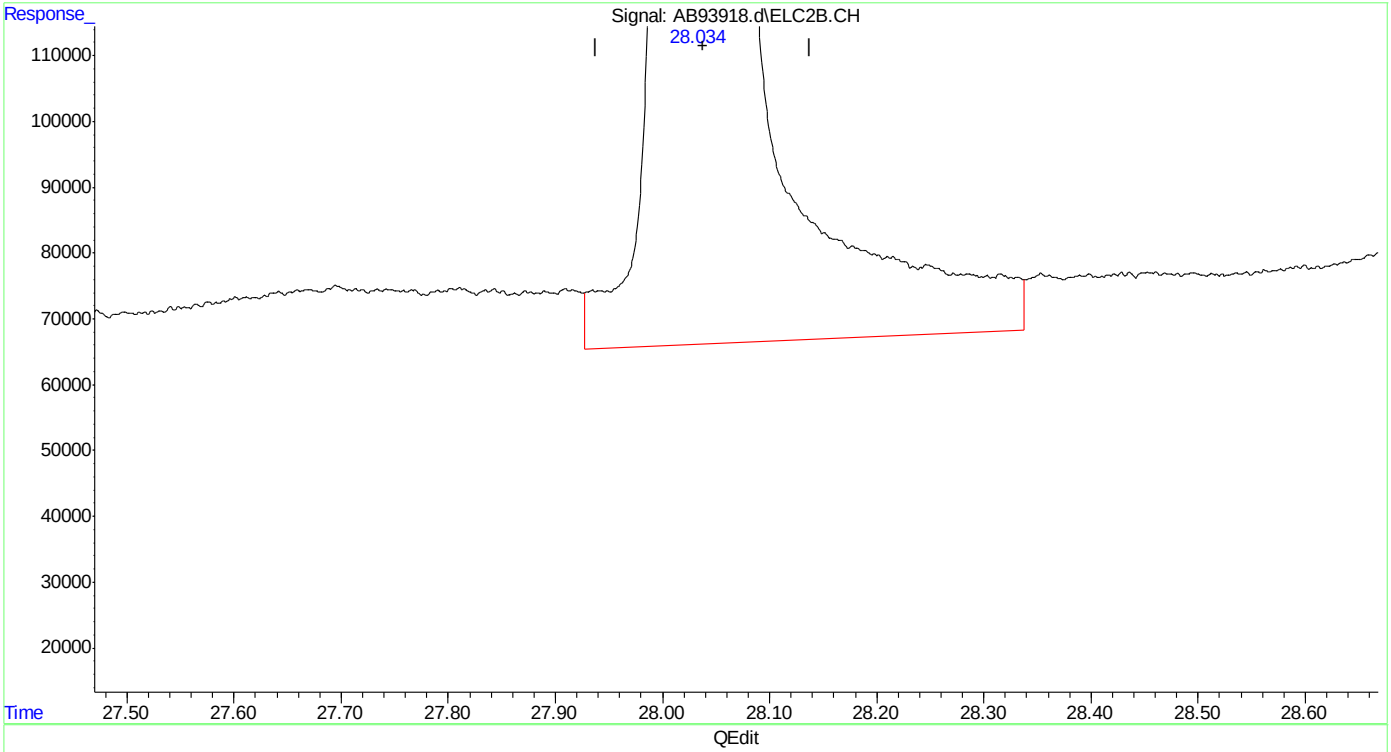
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93918.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 10:12:52
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26201,gab5160,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.034min 52.727 ppb
response 38117110

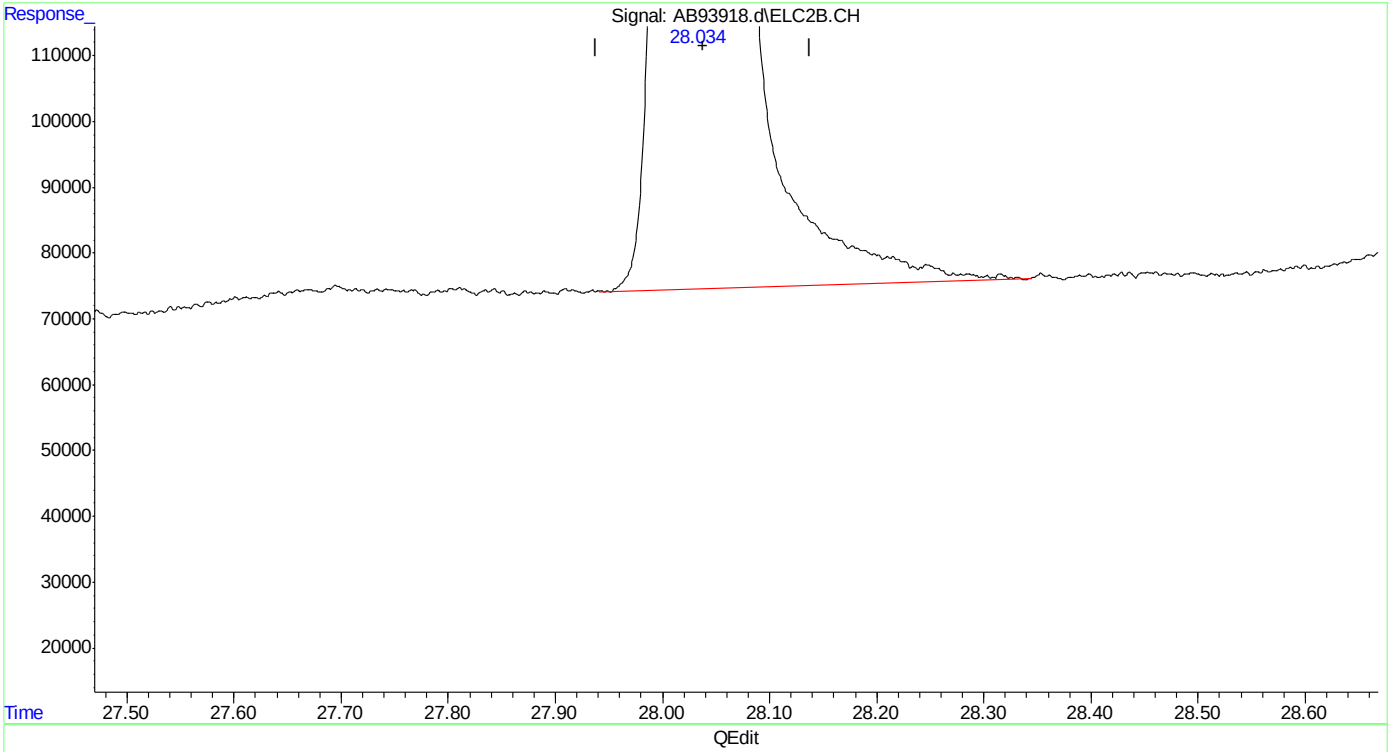
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93918.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 10:12:52
Operator  : tonyf
Sample    : bsd,s,vmavph,20
Misc      : gc26201,gab5160,20,,100,20,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:44 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.034min 49.942 ppb m

response 36103705

(+) = Expected Retention Time

ab160502vph.M Tue May 03 07:23:09 2016

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93912.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:09:16
Operator : tonyf
Sample : mc45611-2ms,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:08:39 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	15.140	21392794	48.605 ppb	
Spiked Amount 50.000		Recovery	= 97.21%	
6) s 2,3,4-trifluorotoluene	20.196	19308881	47.100 ppb	
Spiked Amount 50.000		Recovery	= 94.20%	
16) s fluorobenzene #2	15.139	40947654	48.617 ppb	
Spiked Amount 50.000		Recovery	= 97.23%	
18) s 2,3,4-trifluorotoluen...	20.194	21456741	45.958 ppb	
Spiked Amount 50.000		Recovery	= 91.92%	
Target Compounds				
1) h rt5.5-7	6.420	16595587	41.333 ppb	m
2) h rt7/10	8.720	31596730	78.695 ppb	
3) h rt10/13	13.870	79434860	197.841 ppb	
8) h rt20/25	21.870	277492368	442.922 ppb	
14) mtbe #2	9.500	26048450	51.637 ppb	m
15) benzene #2	14.635	63037209	48.429 ppb	
17) toluene #2	19.095	54135774	47.351 ppb	
19) ethylbenzene #2	22.191	44368838	47.922 ppb	
20) m,p-xylene #2	22.335	105876090	99.816 ppb	
21) o-xylene #2	23.141	43985670	47.087 ppb	
23) 1,2,4-trimethylbenzen...	25.090	44123170	46.104 ppb	
24) naphthalene #2	28.032	34873453	48.240 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	150951128	157.562 ppb	

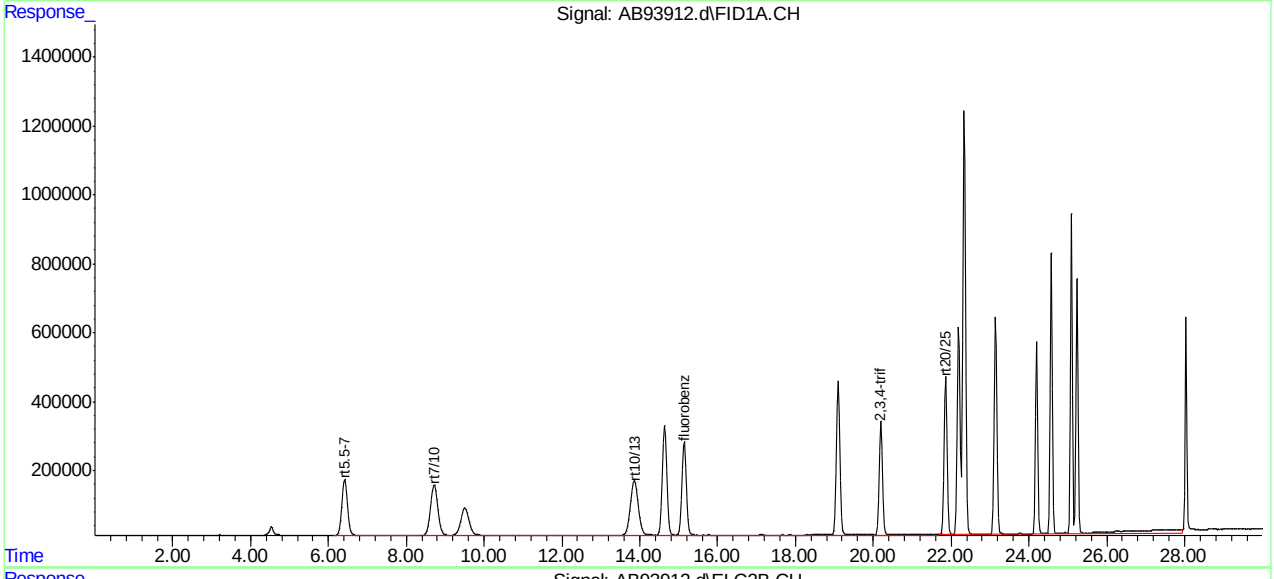
(f)=RT Delta > 1/2 Window (m)=manual int.

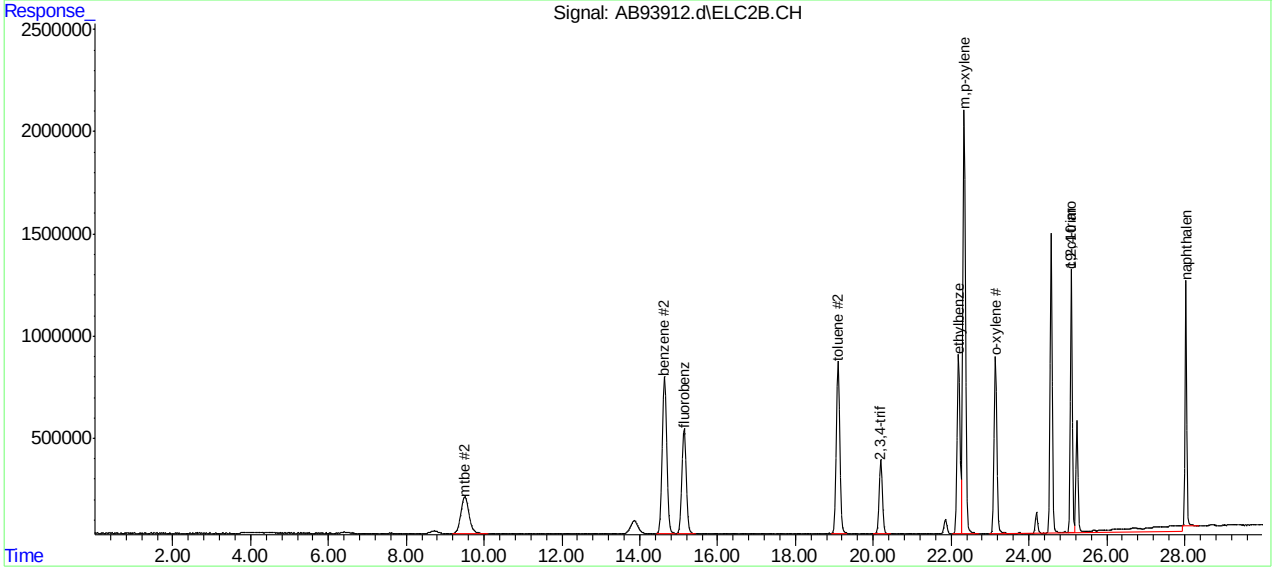
Quantitation Report (QT Reviewed)

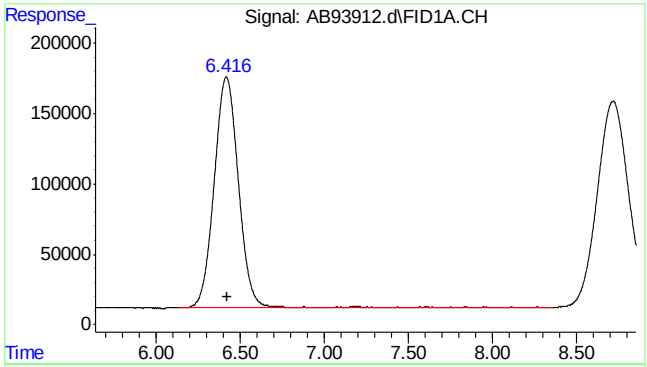
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93912.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:09:16
Operator : tonyf
Sample : mc45611-2ms,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:08:39 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

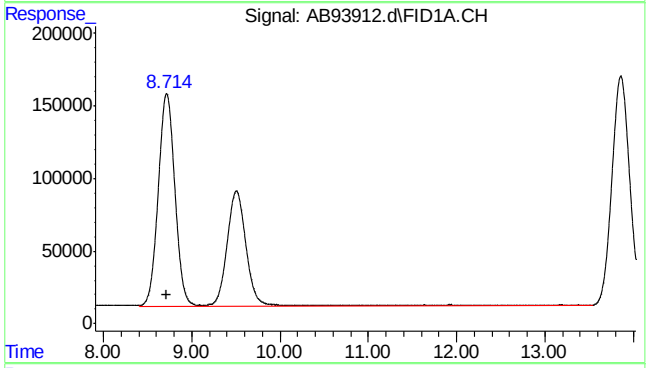






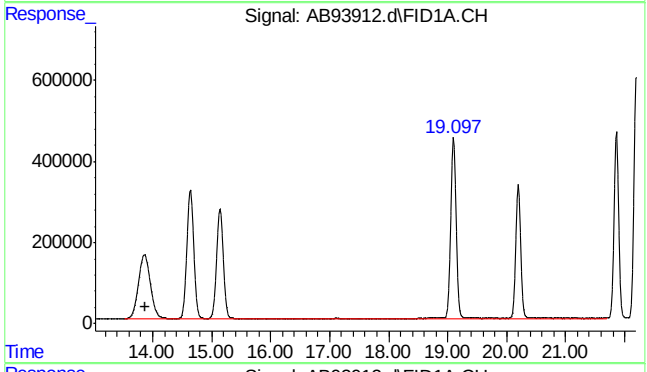
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16595587
Conc: 41.33 ppb m



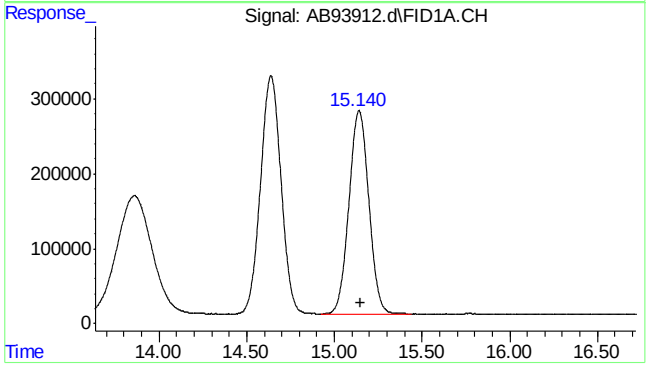
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 31596730
Conc: 78.69 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 79434860
Conc: 197.84 ppb

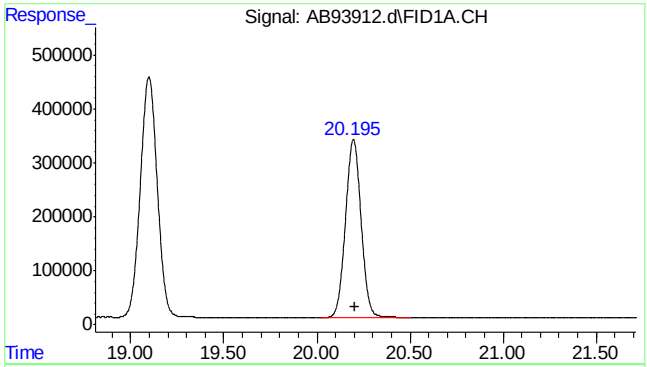


#4 fluorobenzene

R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 21392794
Conc: 48.60 ppb

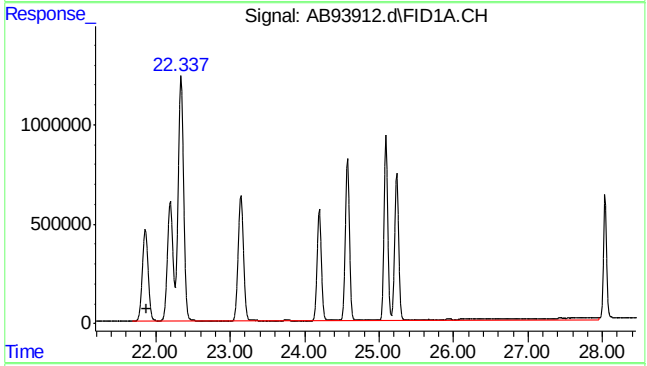
7.4.1

7



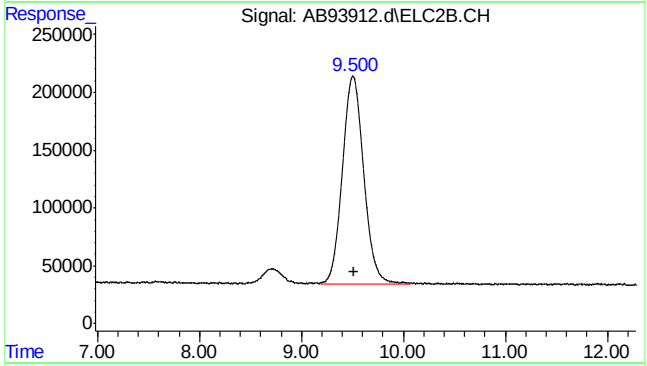
#6 2,3,4-trifluorotoluene

R.T.: 20.196 min
Delta R.T.: -0.010 min
Response: 19308881
Conc: 47.10 ppb



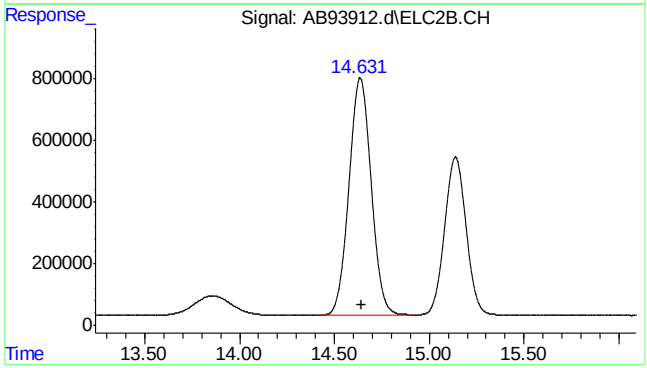
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 277492368
Conc: 442.92 ppb



#14 mtbe #2

R.T.: 9.500 min
Delta R.T.: -0.011 min
Response: 26048450
Conc: 51.64 ppb m



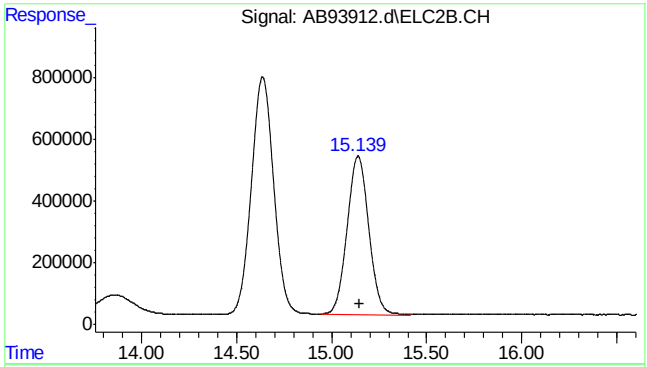
#15 benzene #2

R.T.: 14.635 min
Delta R.T.: -0.011 min
Response: 63037209
Conc: 48.43 ppb

7.4.1

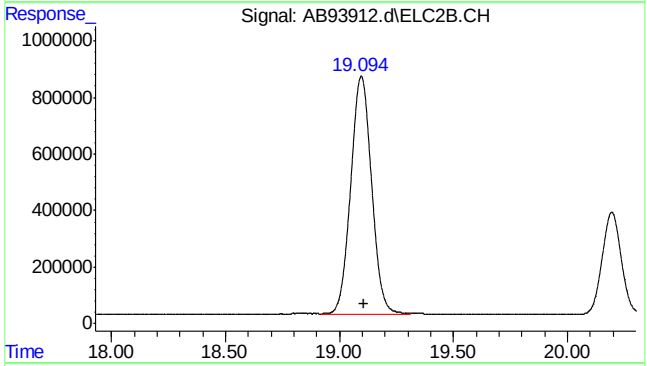
7

SGS ACCUTEST MC45611



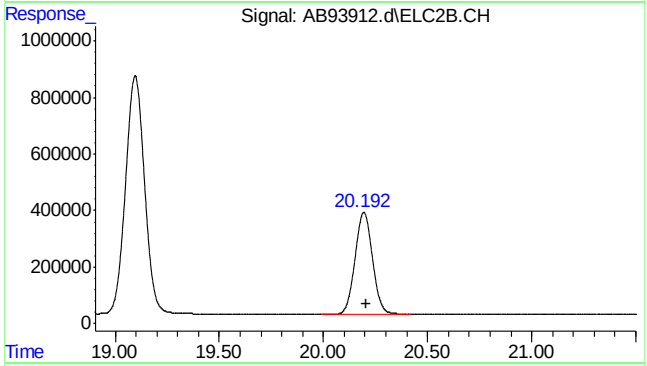
#16 fluorobenzene #2

R.T.: 15.139 min
Delta R.T.: -0.009 min
Response: 40947654
Conc: 48.62 ppb



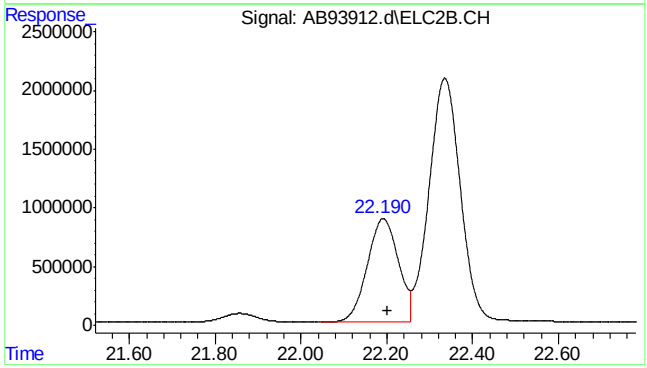
#17 toluene #2

R.T.: 19.095 min
Delta R.T.: -0.011 min
Response: 54135774
Conc: 47.35 ppb



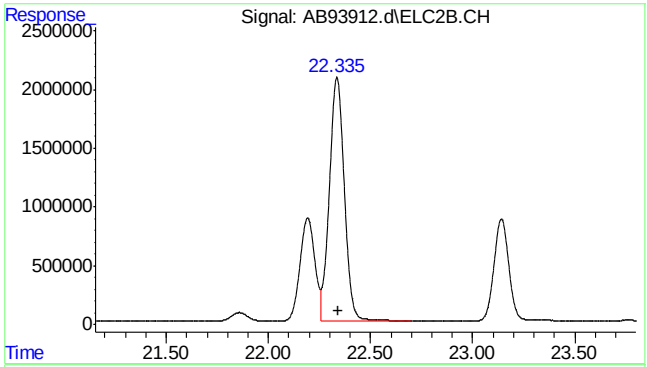
#18 2,3,4-trifluorotoluene #2

R.T.: 20.194 min
Delta R.T.: -0.009 min
Response: 21456741
Conc: 45.96 ppb



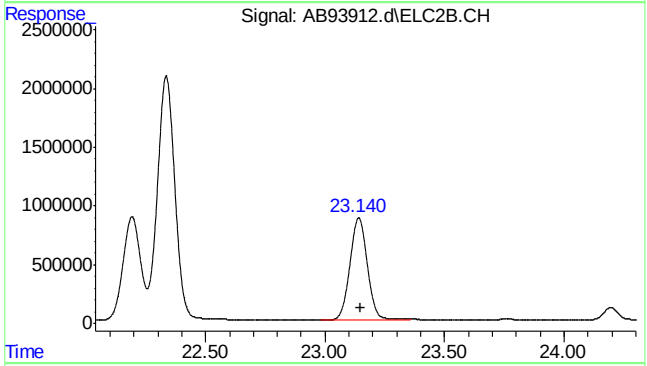
#19 ethylbenzene #2

R.T.: 22.191 min
Delta R.T.: -0.010 min
Response: 44368838
Conc: 47.92 ppb



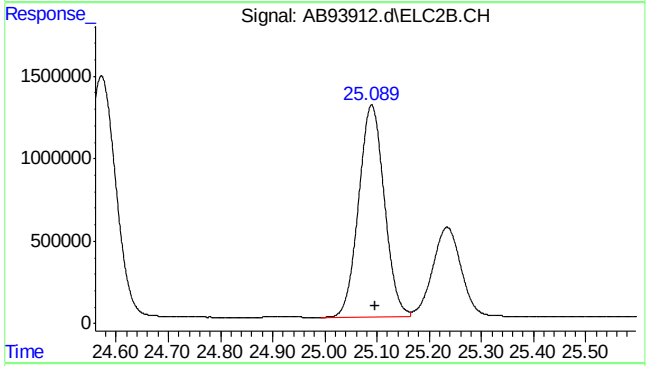
#20 m,p-xylene #2

R.T.: 22.335 min
Delta R.T.: -0.009 min
Response: 105876090
Conc: 99.82 ppb



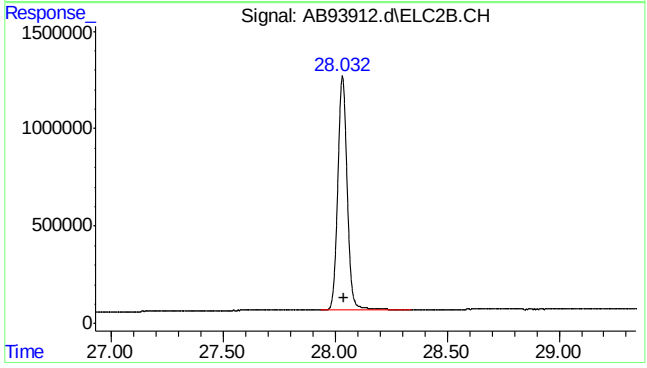
#21 o-xylene #2

R.T.: 23.141 min
Delta R.T.: -0.009 min
Response: 43985670
Conc: 47.09 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.090 min
Delta R.T.: -0.006 min
Response: 44123170
Conc: 46.10 ppb



#24 naphthalene #2

R.T.: 28.032 min
Delta R.T.: -0.006 min
Response: 34873453
Conc: 48.24 ppb m

7.4.1

7

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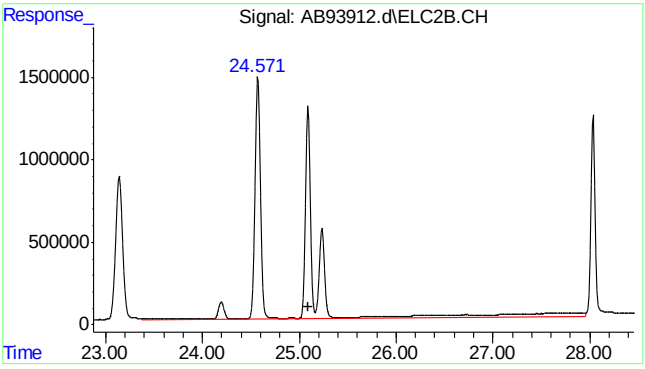


#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 150951128
Conc: 157.56 ppb

7.4.1

7

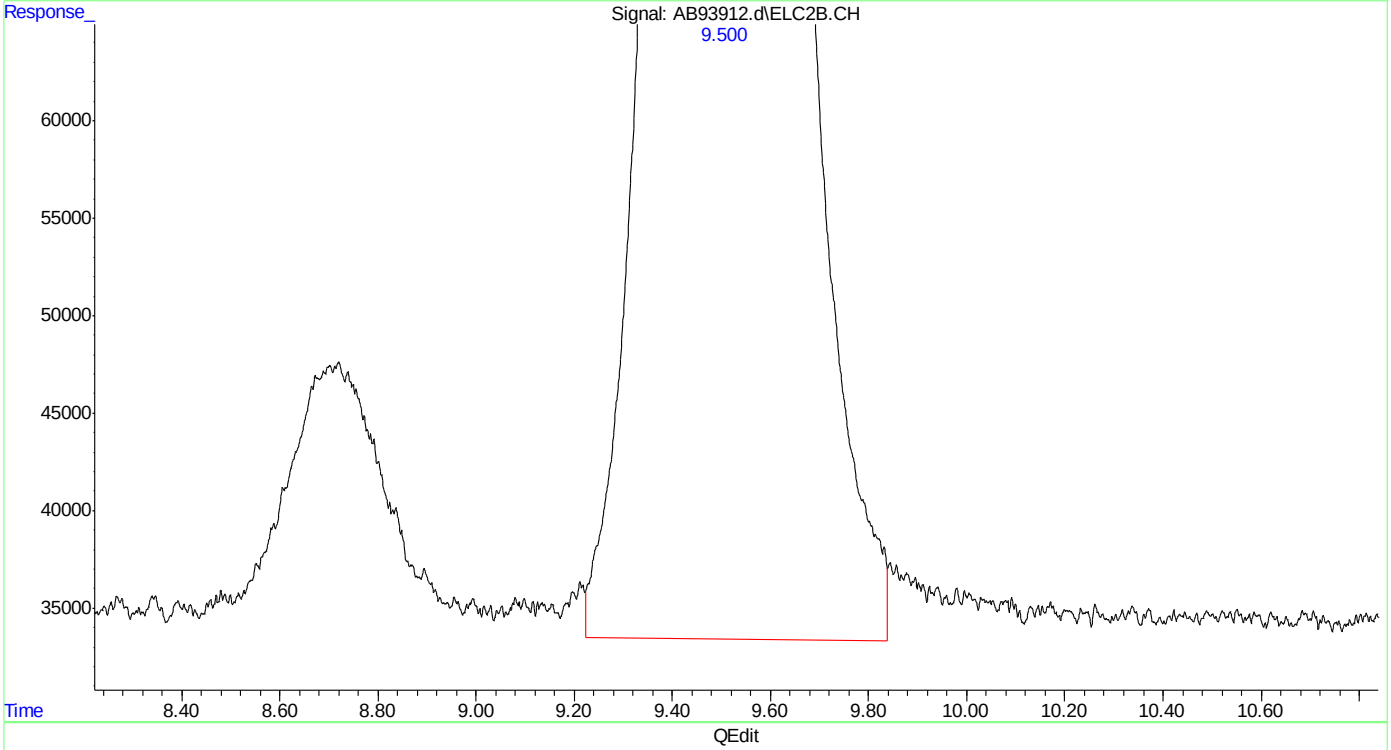
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93912.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:09:16
Operator : tonyf
Sample : mc45611-2ms,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:40 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.501min 52.059 ppb
response 26261392

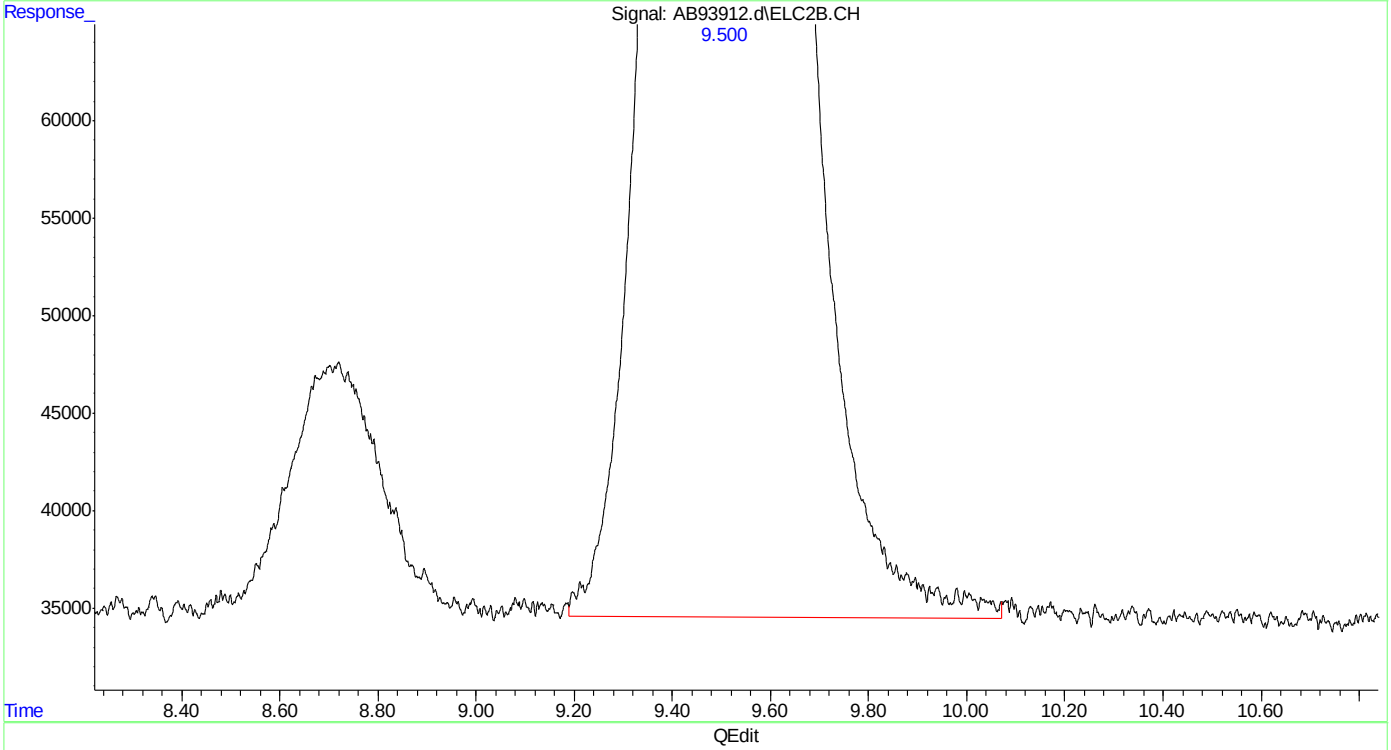
(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:08:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93912.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:09:16
Operator : tonyf
Sample : mc45611-2ms,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:40 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.500min 51.637 ppb m
response 26048450

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:08:27 2016

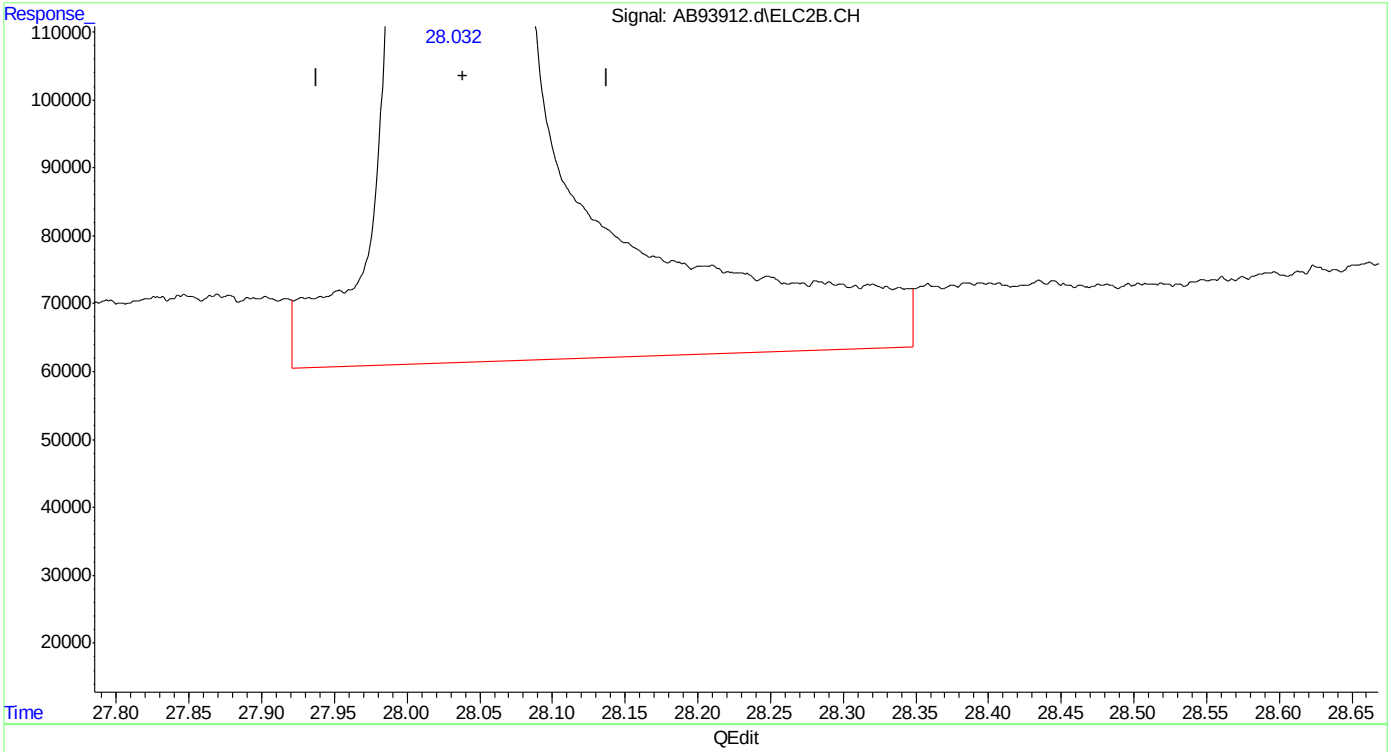
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93912.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:09:16
Operator : tonyf
Sample : mc45611-2ms,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:40 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.033min 51.562 ppb
response 37274824

(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:08:36 2016

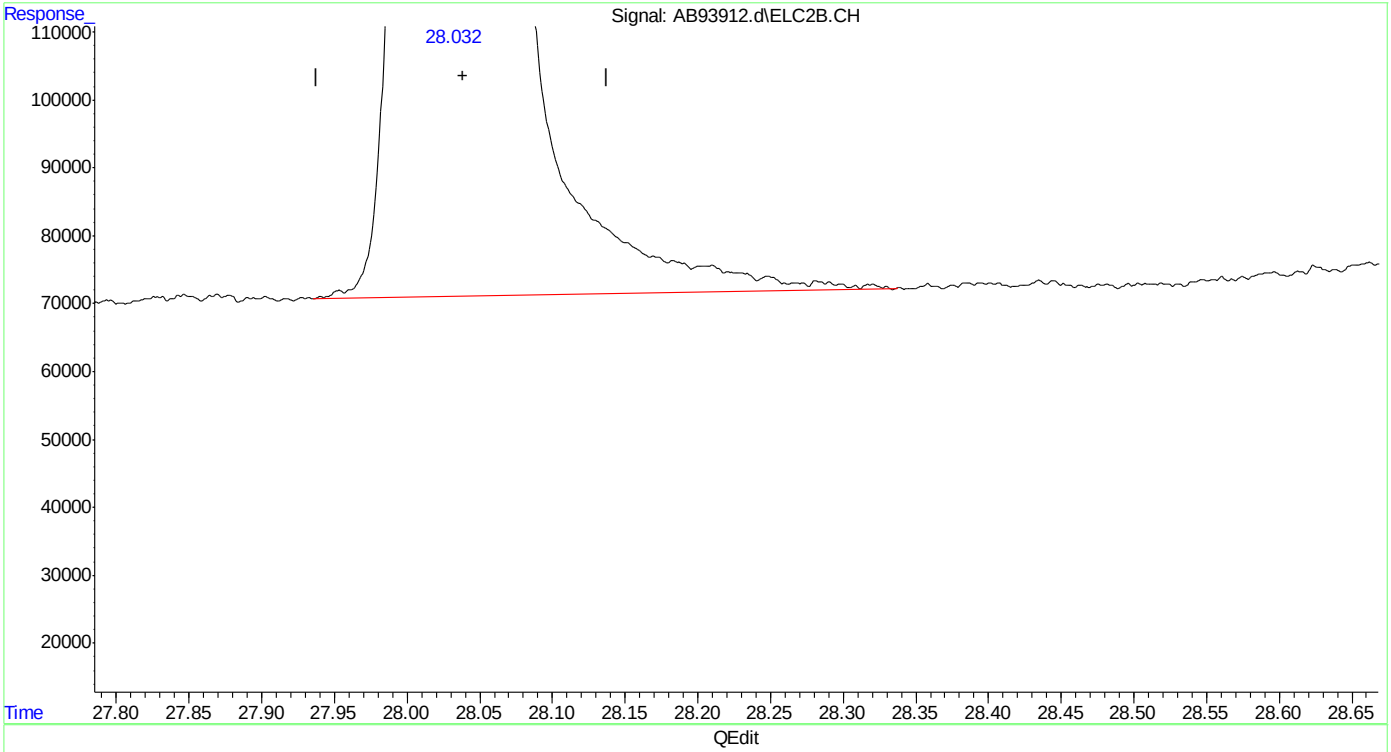
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93912.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 17:09:16
Operator  : tonyf
Sample    : mc45611-2ms,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:40 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.032min 48.240 ppb m

response 34873453

(+) = Expected Retention Time

ab160429vph.M Mon May 02 07:08:41 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93913.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:47:30
Operator : tonyf
Sample : mc45611-2msd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:09:18 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	15.140	21640483	49.167 ppb	
Spiked Amount 50.000		Recovery =	98.33%	
6) s 2,3,4-trifluorotoluene	20.195	19475208	47.506 ppb	
Spiked Amount 50.000		Recovery =	95.01%	
16) s fluorobenzene #2	15.138	41814824	49.647 ppb	
Spiked Amount 50.000		Recovery =	99.29%	
18) s 2,3,4-trifluorotoluen...	20.193	21846436	46.793 ppb	
Spiked Amount 50.000		Recovery =	93.59%	
Target Compounds				
1) h rt5.5-7	6.420	16527039	41.162 ppb	m
2) h rt7/10	8.720	31693500	78.936 ppb	
3) h rt10/13	13.870	79793640	198.734 ppb	
8) h rt20/25	21.870	280498307	447.720 ppb	
14) mtbe #2	9.502	26005701	51.552 ppb	m
15) benzene #2	14.636	64250081	49.360 ppb	
17) toluene #2	19.094	55122117	48.214 ppb	
19) ethylbenzene #2	22.191	45087142	48.698 ppb	
20) m,p-xylene #2	22.334	107538700	101.383 ppb	
21) o-xylene #2	23.139	44957846	48.128 ppb	
22) t 1,3,5-trimethylbenzen...	24.571	58200319	44.546 ppb	
23) 1,2,4-trimethylbenzen...	25.089	45296027	47.329 ppb	
24) naphthalene #2	28.032	35306260	48.839 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	153972904	160.716 ppb	

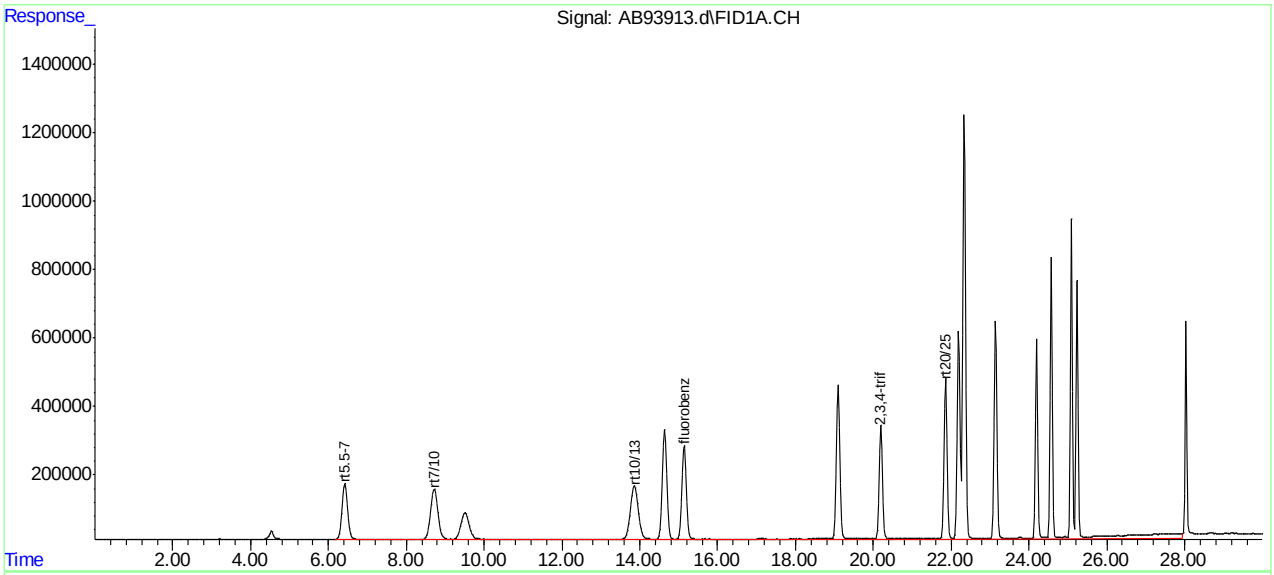
(f)=RT Delta > 1/2 Window (m)=manual int.

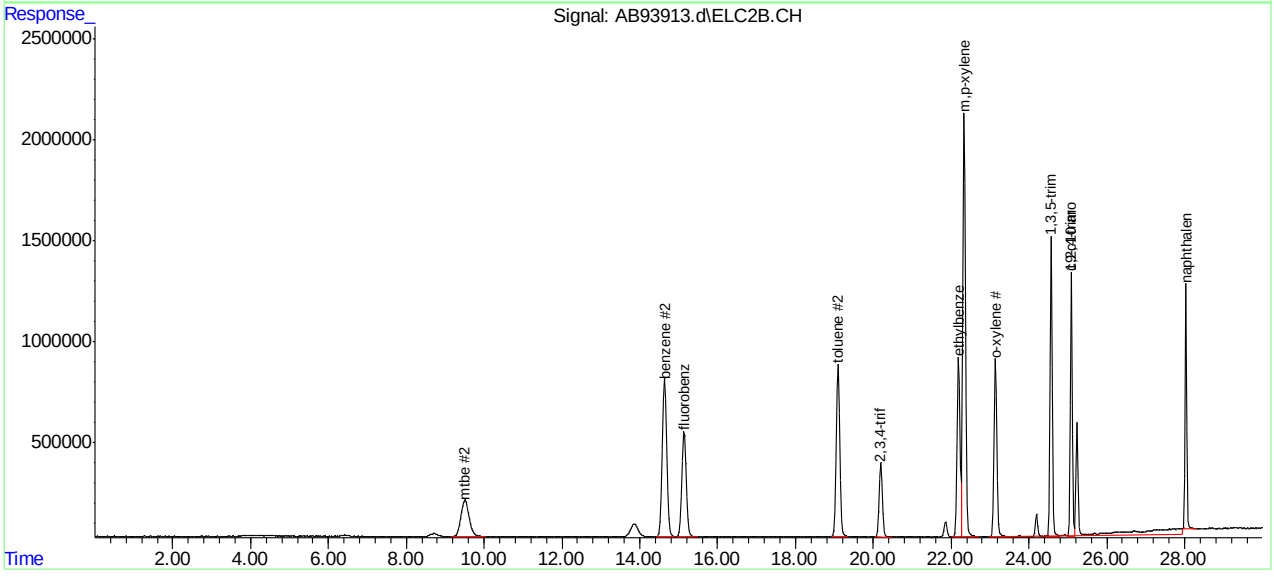
Quantitation Report (QT Reviewed)

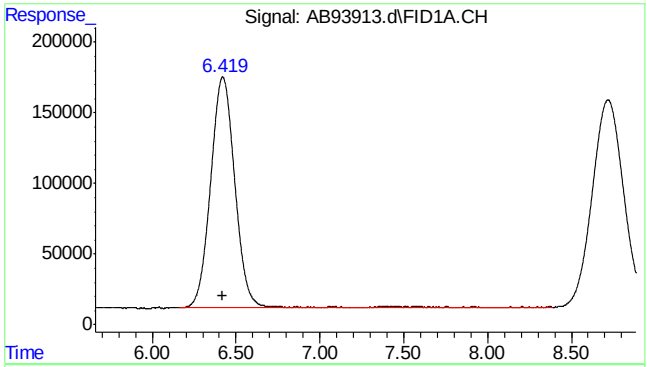
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93913.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:47:30
Operator : tonyf
Sample : mc45611-2msd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 07:09:18 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

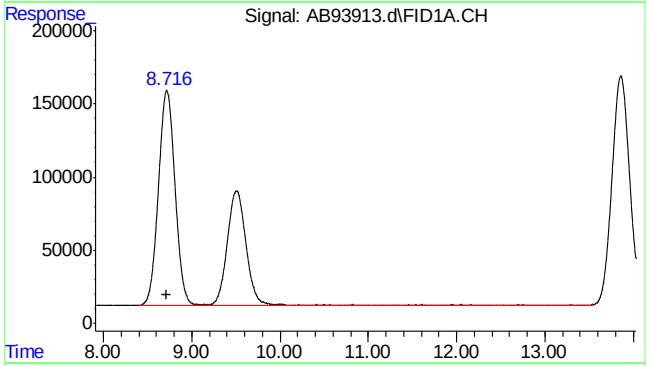






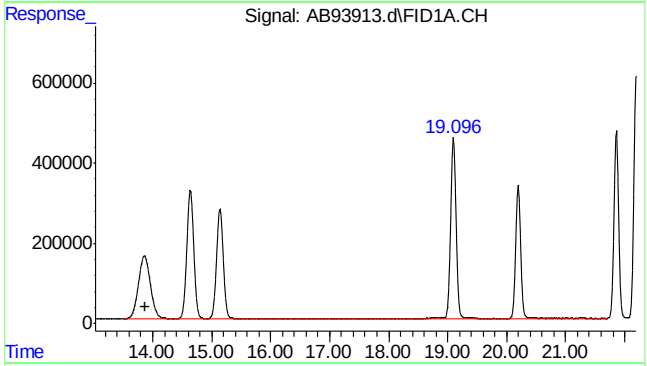
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16527039
Conc: 41.16 ppb m



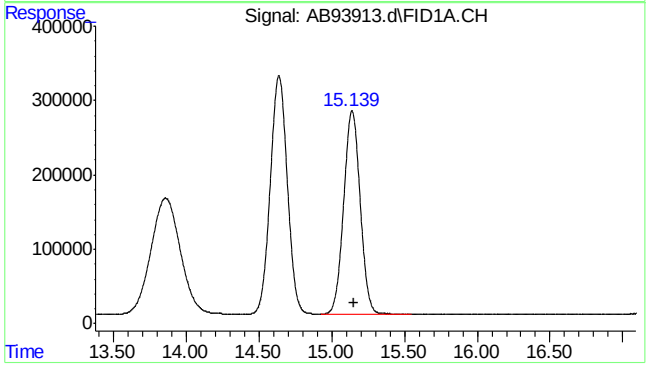
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 31693500
Conc: 78.94 ppb



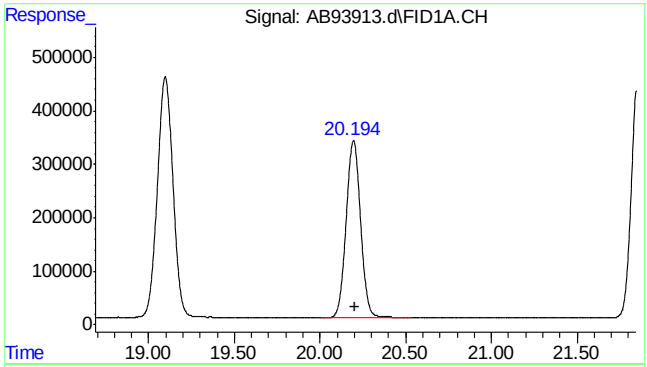
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 79793640
Conc: 198.73 ppb



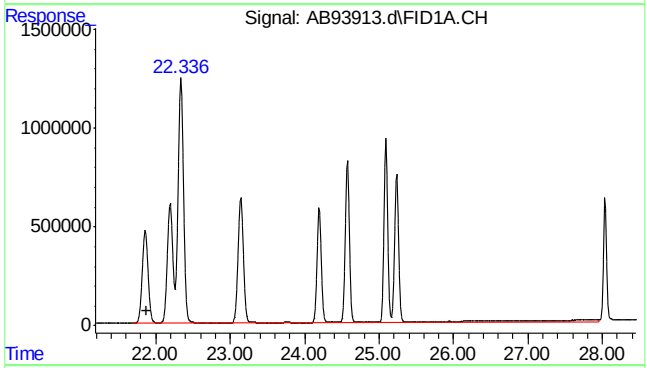
#4 fluorobenzene

R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 21640483
Conc: 49.17 ppb



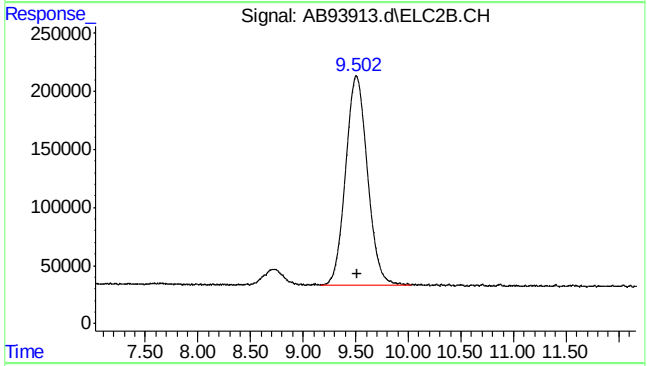
#6 2,3,4-trifluorotoluene

R.T.: 20.195 min
Delta R.T.: -0.011 min
Response: 19475208
Conc: 47.51 ppb



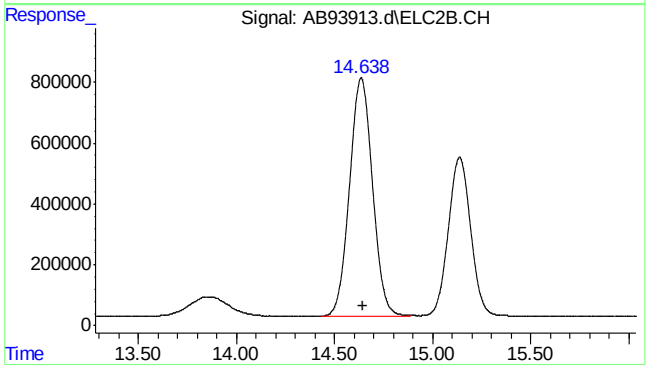
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 280498307
Conc: 447.72 ppb



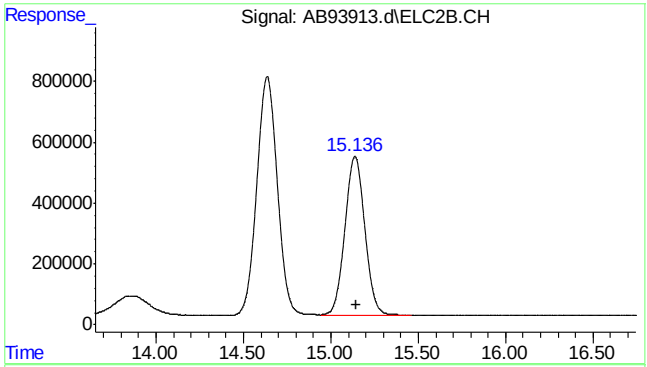
#14 mtbe #2

R.T.: 9.502 min
Delta R.T.: -0.009 min
Response: 26005701
Conc: 51.55 ppb m



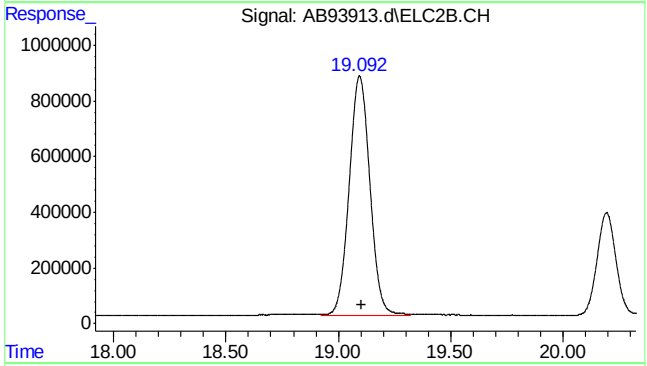
#15 benzene #2

R.T.: 14.636 min
Delta R.T.: -0.010 min
Response: 64250081
Conc: 49.36 ppb



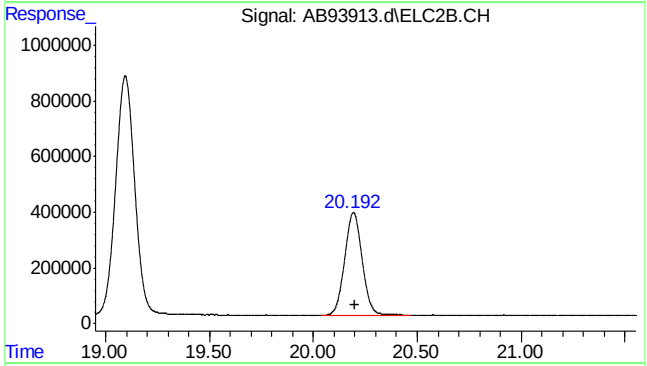
#16 fluorobenzene #2

R.T.: 15.138 min
Delta R.T.: -0.010 min
Response: 41814824
Conc: 49.65 ppb



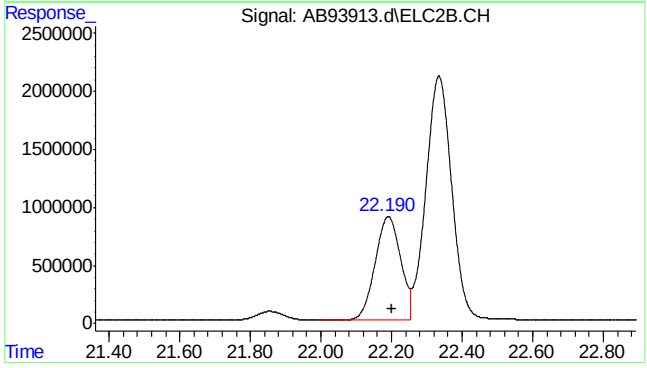
#17 toluene #2

R.T.: 19.094 min
Delta R.T.: -0.012 min
Response: 55122117
Conc: 48.21 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.010 min
Response: 21846436
Conc: 46.79 ppb



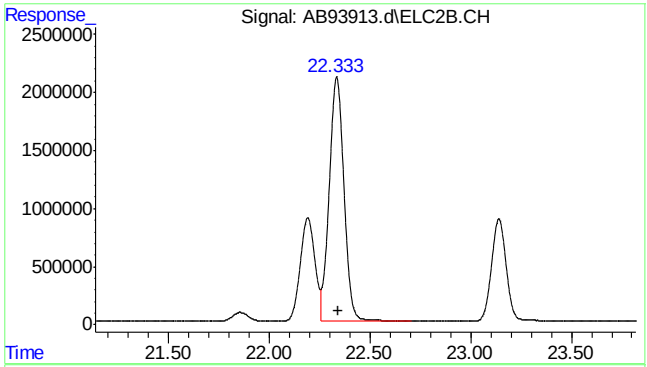
#19 ethylbenzene #2

R.T.: 22.191 min
Delta R.T.: -0.010 min
Response: 45087142
Conc: 48.70 ppb

7.4.2

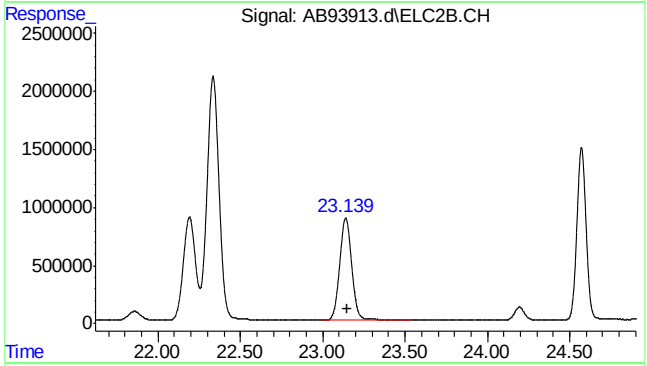
7

SGS ACCUTEST MC45611



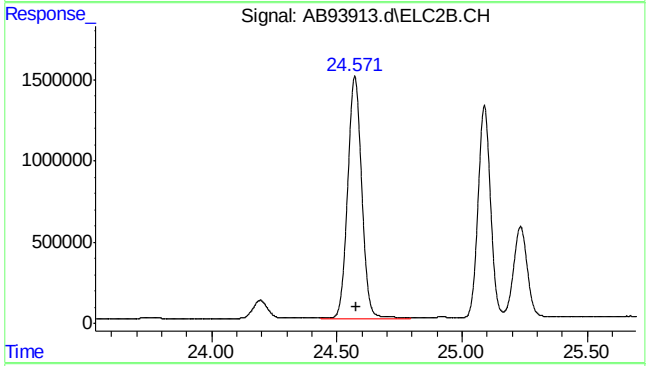
#20 m,p-xylene #2

R.T.: 22.334 min
Delta R.T.: -0.010 min
Response: 107538700
Conc: 101.38 ppb



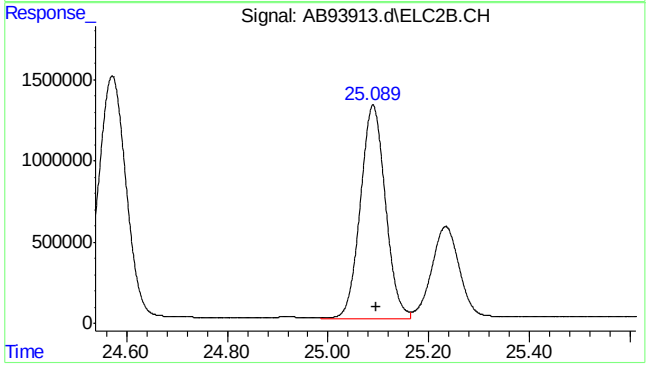
#21 o-xylene #2

R.T.: 23.139 min
Delta R.T.: -0.010 min
Response: 44957846
Conc: 48.13 ppb



#22 1,3,5-trimethylbenzene #2

R.T.: 24.571 min
Delta R.T.: -0.008 min
Response: 58200319
Conc: 44.55 ppb



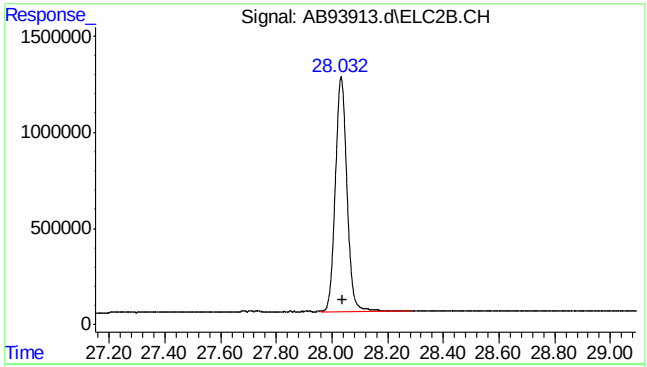
#23 1,2,4-trimethylbenzene #2

R.T.: 25.089 min
Delta R.T.: -0.007 min
Response: 45296027
Conc: 47.33 ppb

7.4.2

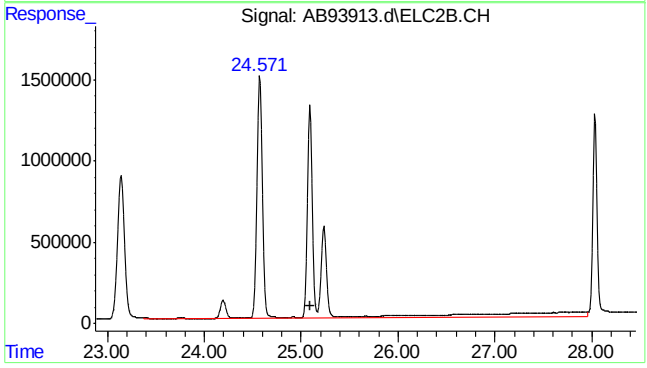
7

SGS ACCUTEST MC45611



#24 naphthalene #2

```
      R.T.:   28.032 min
Delta R.T.:   -0.006 min
  Response:  35306260
      Conc:  48.84 ppb m
```



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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response: 153972904
      Conc: 160.72 ppb
```

7.4.2

7

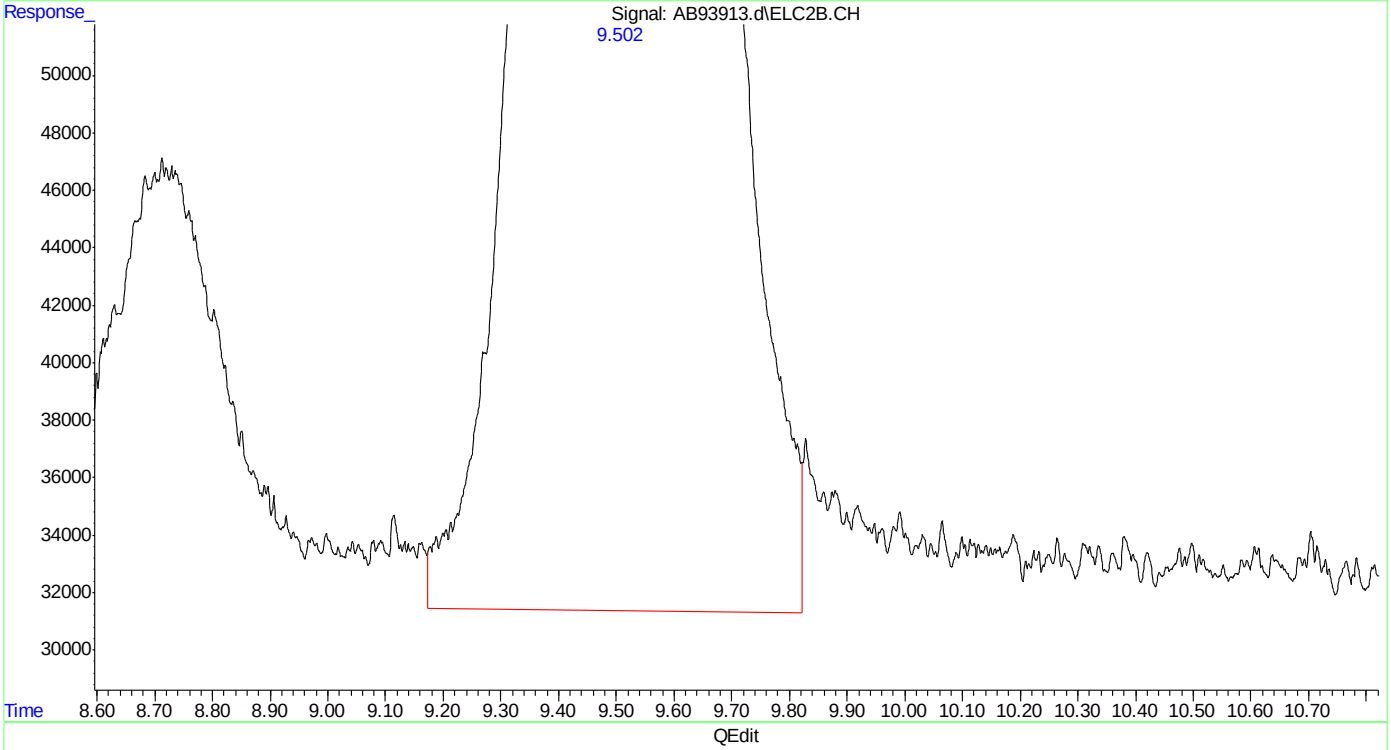
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93913.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:47:30
Operator : tonyf
Sample : mc45611-2msd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:44 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.501min 52.612 ppb
response 26540139

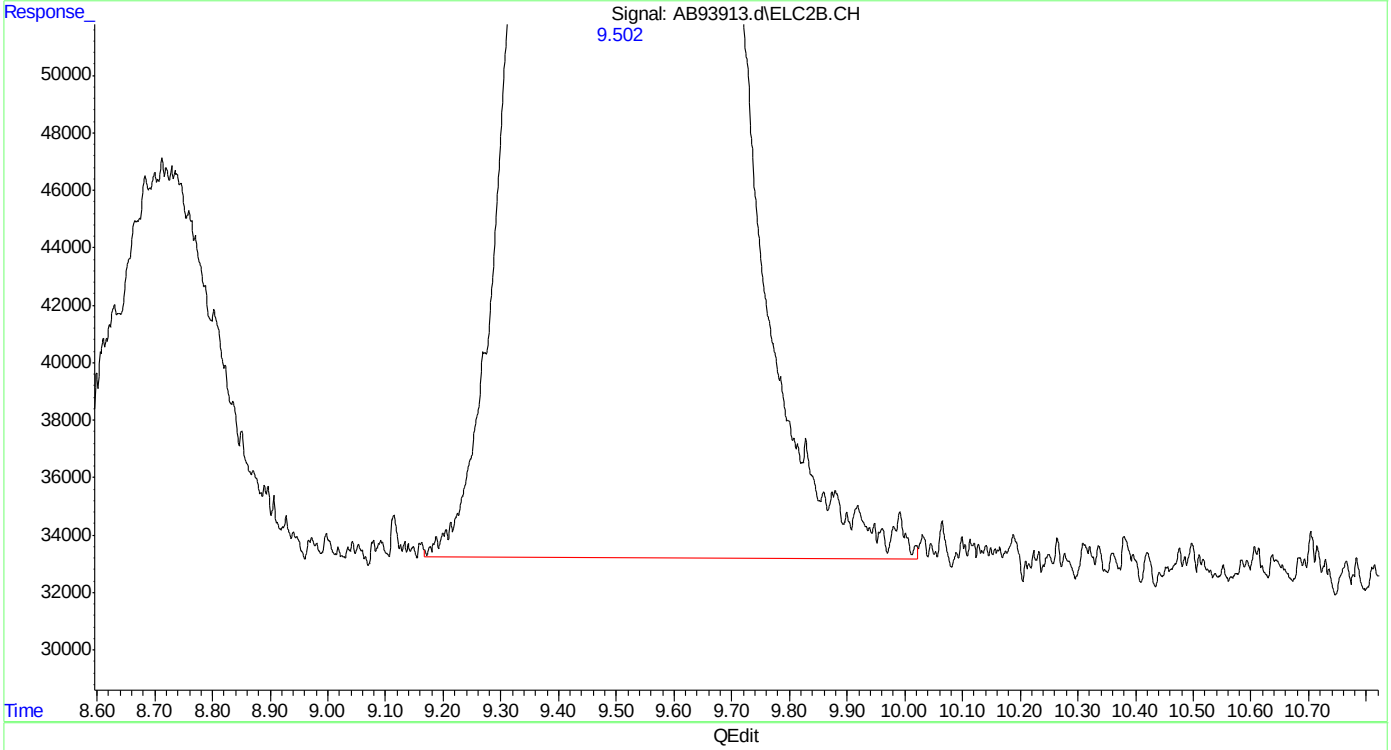
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93913.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:47:30
Operator : tonyf
Sample : mc45611-2msd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:44 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.502min 51.552 ppb m
response 26005701

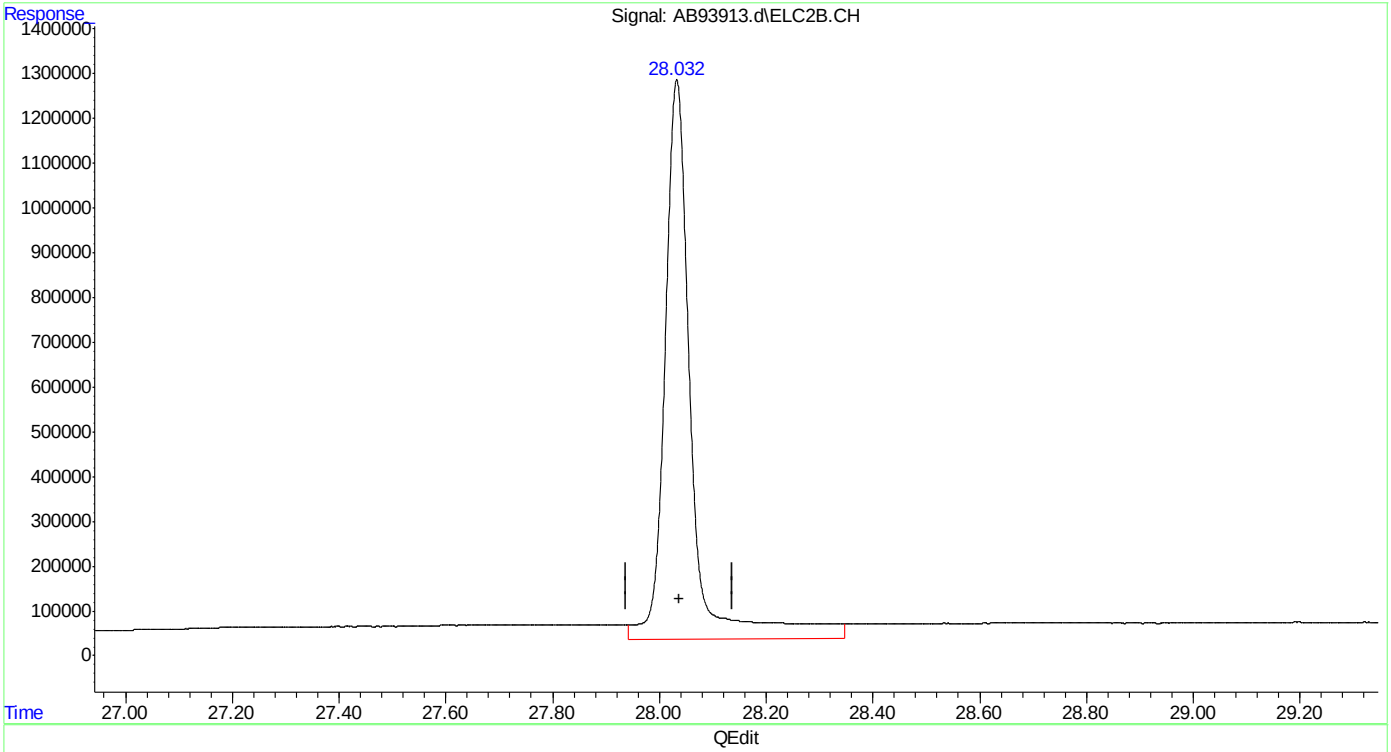
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93913.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 17:47:30
Operator : tonyf
Sample : mc45611-2msd,w,vmavph,00
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:44 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.033min 59.858 ppb
response 43271792

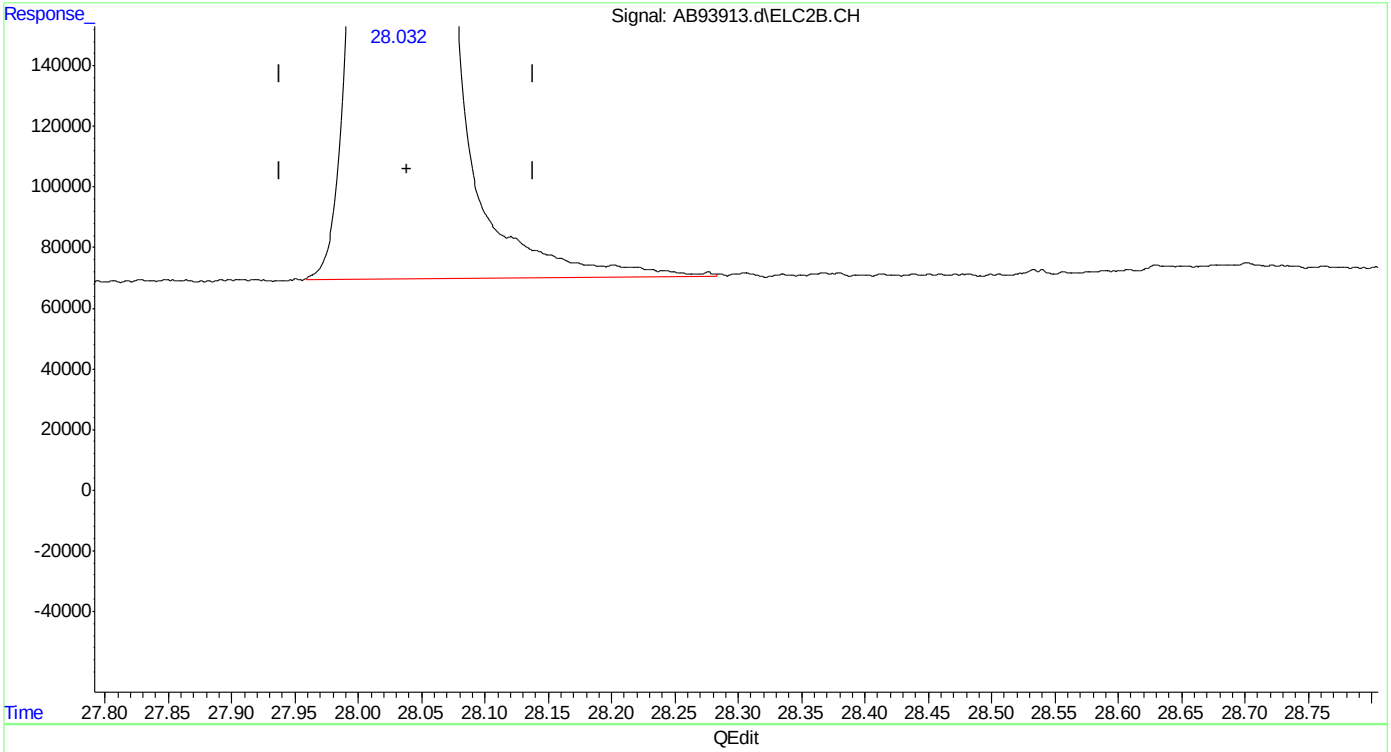
(+) = Expected Retention Time
ab160429vph.M Mon May 02 07:09:14 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93913.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 29-Apr-16, 17:47:30
Operator  : tonyf
Sample    : mc45611-2msd,w,vmavph,00
Misc      : gc26197,gab5159,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:44 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.032min 48.839 ppb m

response 35306260

(+) = Expected Retention Time

ab160429vph.M Mon May 02 07:09:20 2016

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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:19:17 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.167	442066892	1004.931	ppb	
Spiked Amount 50.000		Recovery	= 2009.86%		
9) s 2,3,4-trifluorotoluene	20.218	398476745	968.619	ppb	
Spiked Amount 50.000		Recovery	= 1937.24%		
25) s fluorobenzene #2	15.163	685273250	795.104	ppb	
Spiked Amount 50.000		Recovery	= 1590.21%		
27) s 2,3,4-trifluorotoluen...	20.209	406096099	855.885	ppb	
Spiked Amount 50.000		Recovery	= 1711.77%		
Target Compounds					
1) h rt5.5-7	6.370	331590120	905.515	ppb	m
2) h rt7/10	8.710	391421055	930.947	ppb	m
3) mtbe	9.521	194726915	905.818	ppb	
4) h rt10/13	13.890	251983903	564.259	ppb	m
5) benzene	14.665	546282882	999.751	ppb	
8) toluene	19.122	594091538	990.437	ppb	
11) h rt20/25	21.900	591293978	976.791	ppb	m
13) ethylbenzene	22.218	625723135	983.494	ppb	
14) m,p-xylene	22.365	1281304404	1935.957	ppb	
15) o-xylene	23.164	631440822	953.329	ppb	
16) h decane	24.230	587741810	944.921	ppb	
17) t 1,3,5-trimethylbenzene	24.593	630409215	885.040	ppb	
18) 1,2,4-trimethylbenzene	25.108	587315803	884.667	ppb	
19) h butylcyclohexane	25.263	562827500	840.829	ppb	m
20) naphthalene	28.047	210531385	576.892	ppb	
23) mtbe #2	9.509	458231518	898.088	ppb	m
24) benzene #2	14.663	1012253857	756.641	ppb	
26) toluene #2	19.120	865343050	734.571	ppb	
28) ethylbenzene #2	22.213	713837963	749.552	ppb	
29) m,p-xylene #2	22.363	1438627603	1303.821	ppb	
30) o-xylene #2	23.160	684382724	708.941	ppb	
31) t 1,3,5-trimethylbenzen...	24.589	848158738	621.906	ppb	
32) 1,2,4-trimethylbenzen...	25.103	633290350	634.875	ppb	
33) naphthalene #2	28.039	370568666	481.118	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	633177055	634.031	ppb	m

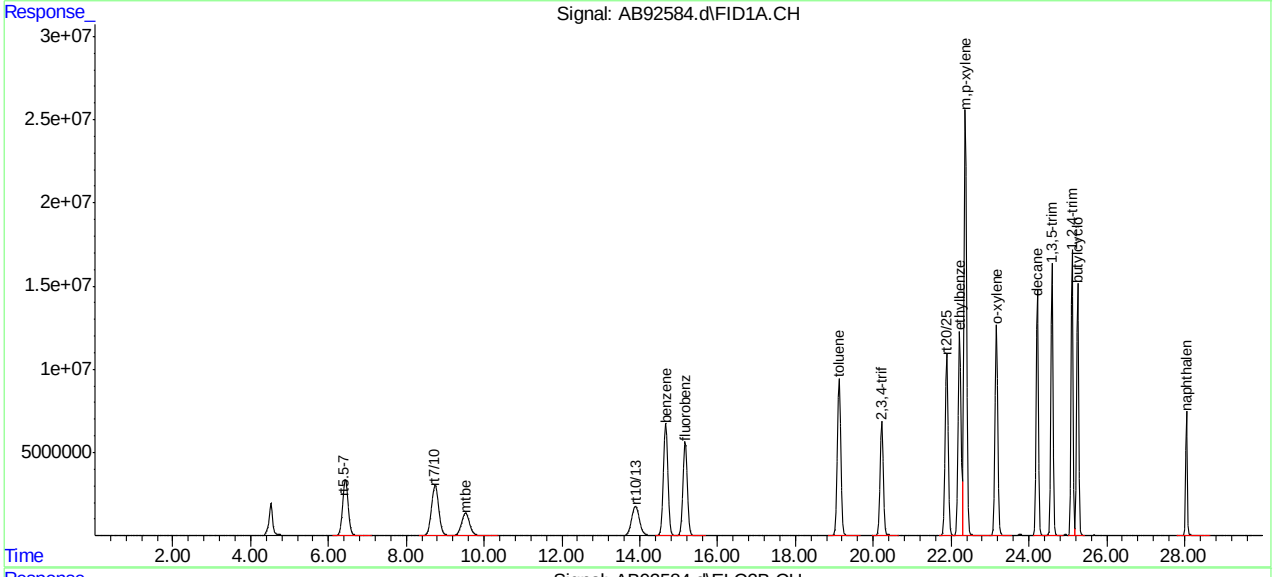
(f)=RT Delta > 1/2 Window (m)=manual int.

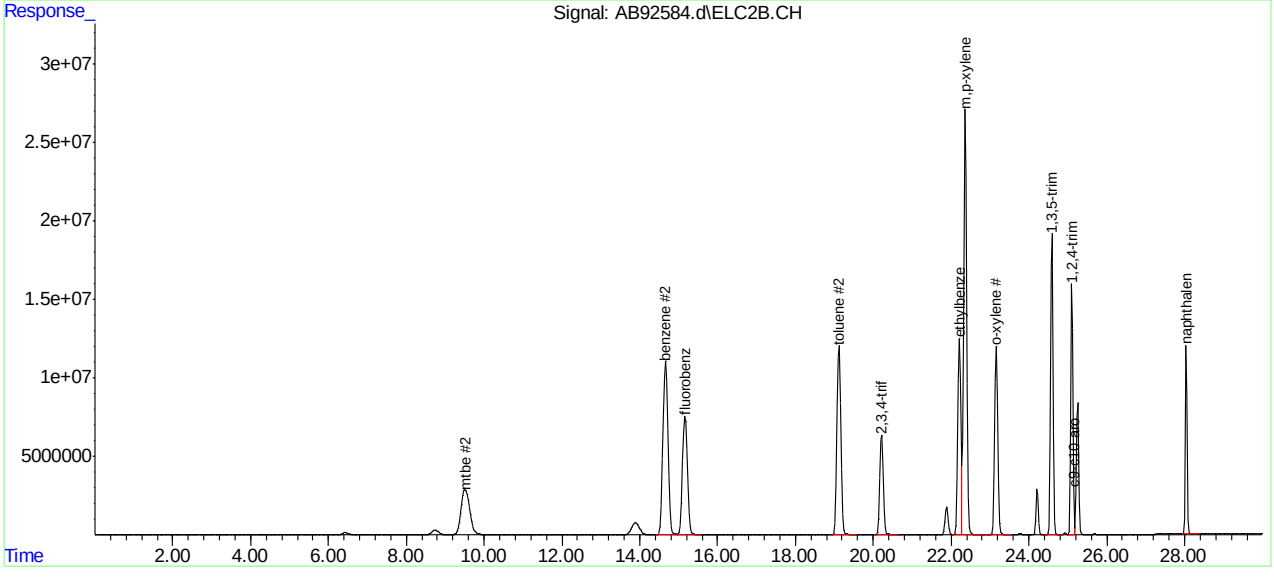
Quantitation Report (QT Reviewed)

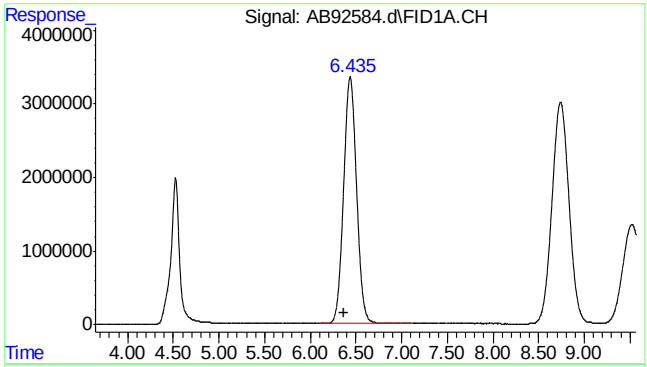
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:19:17 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

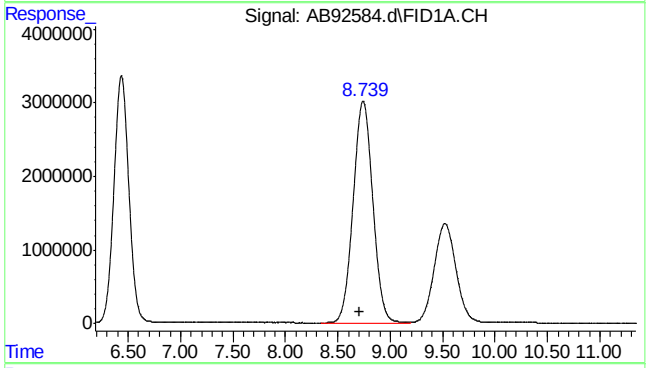






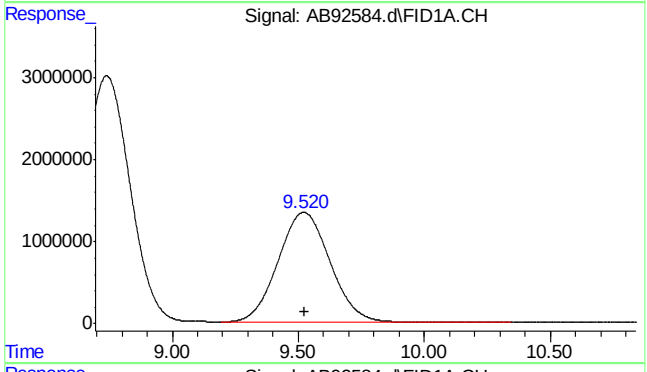
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 331590120
Conc: 905.51 ppb m



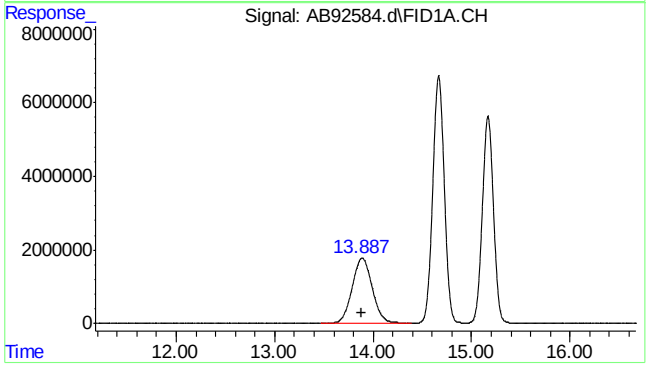
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 391421055
Conc: 930.95 ppb m



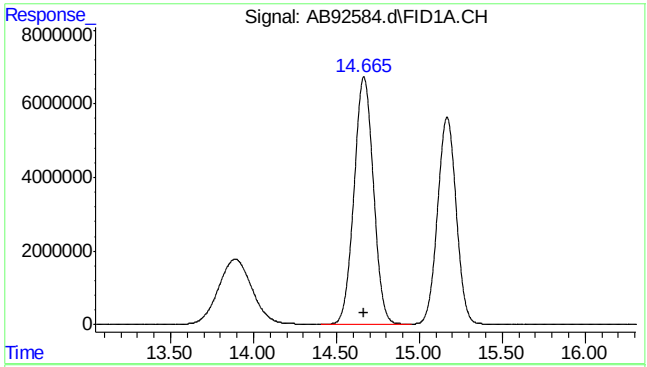
#3 mtbe

R.T.: 9.521 min
Delta R.T.: -0.002 min
Response: 194726915
Conc: 905.82 ppb



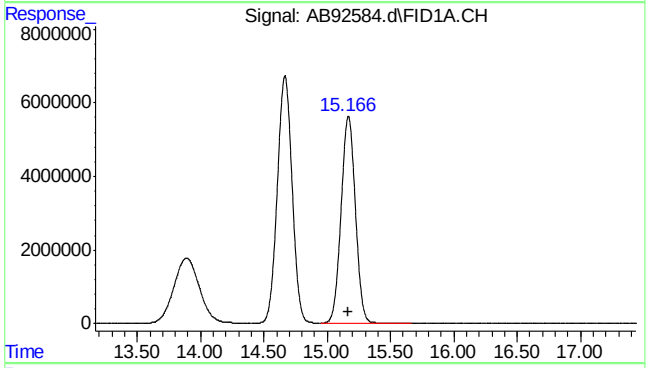
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 251983903
Conc: 564.26 ppb m



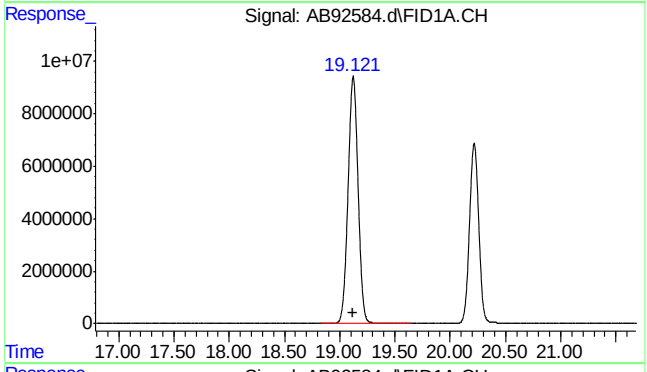
#5 benzene

R.T.: 14.665 min
Delta R.T.: 0.000 min
Response: 546282882
Conc: 999.75 ppb



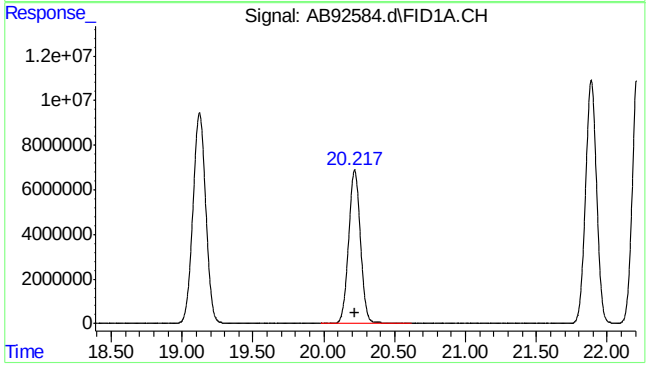
#6 fluorobenzene

R.T.: 15.167 min
Delta R.T.: 0.000 min
Response: 442066892
Conc: 1004.93 ppb



#8 toluene

R.T.: 19.122 min
Delta R.T.: 0.000 min
Response: 594091538
Conc: 990.44 ppb



#9 2,3,4-trifluorotoluene

R.T.: 20.218 min
Delta R.T.: 0.000 min
Response: 398476745
Conc: 968.62 ppb

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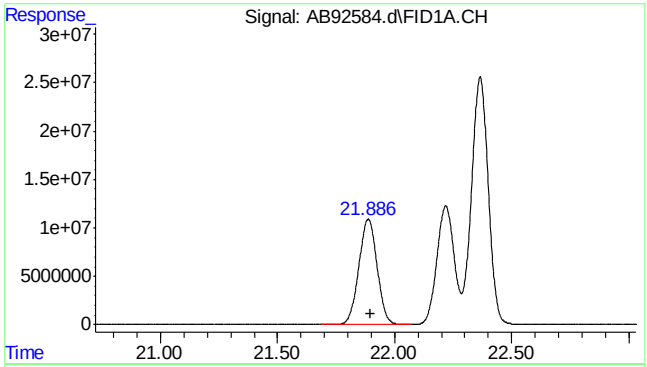
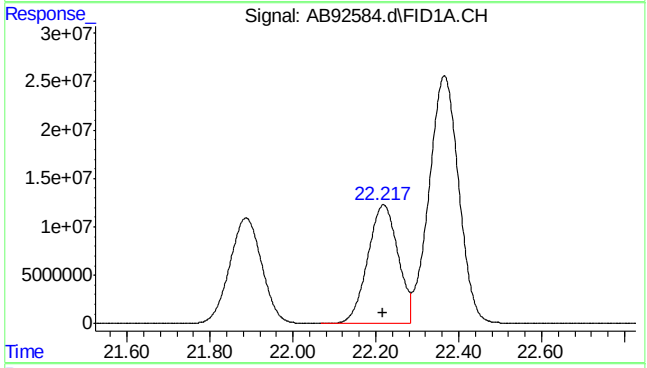


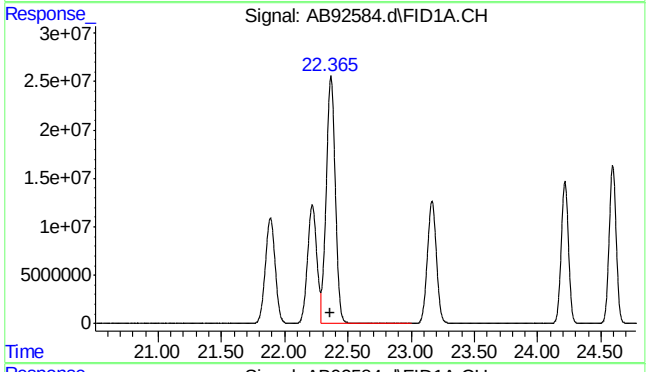
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 591293978
Conc: 976.79 ppb m



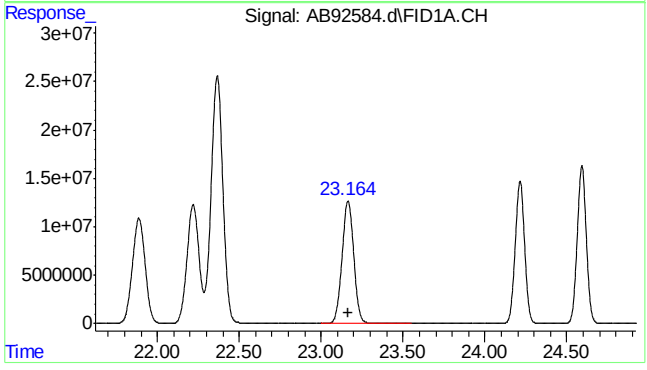
#13 ethylbenzene

R.T.: 22.218 min
Delta R.T.: 0.002 min
Response: 625723135
Conc: 983.49 ppb



#14 m,p-xylene

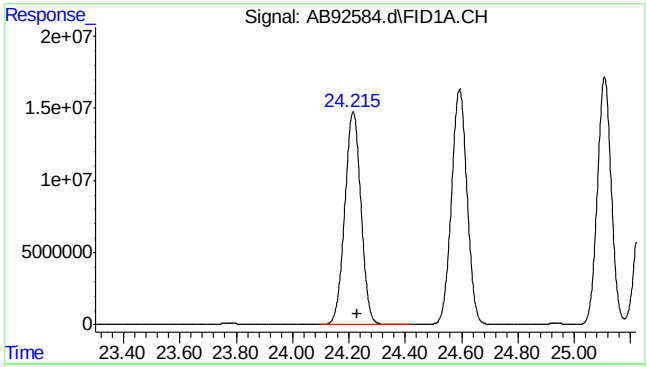
R.T.: 22.365 min
Delta R.T.: 0.004 min
Response: 1281304404
Conc: 1935.96 ppb



#15 o-xylene

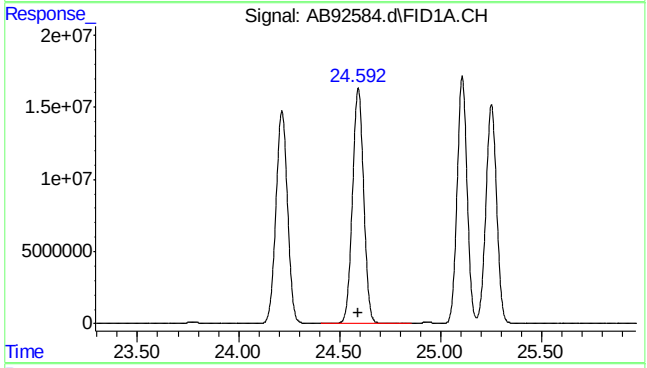
R.T.: 23.164 min
Delta R.T.: 0.000 min
Response: 631440822
Conc: 953.33 ppb

SGS ACCUTEST MC45611



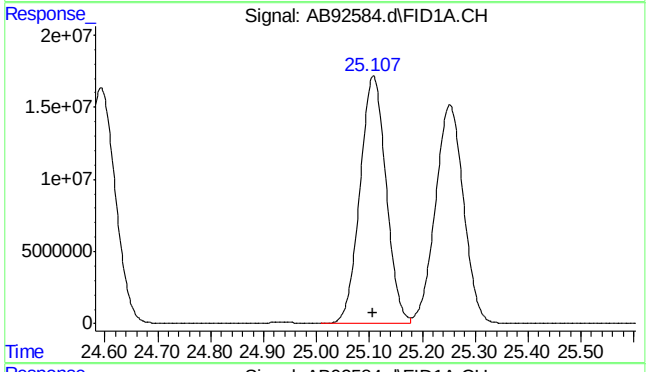
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 587741810
Conc: 944.92 ppb



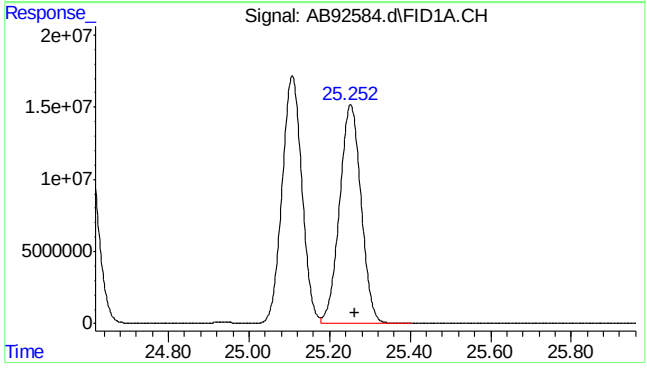
#17 1,3,5-trimethylbenzene

R.T.: 24.593 min
Delta R.T.: 0.002 min
Response: 630409215
Conc: 885.04 ppb



#18 1,2,4-trimethylbenzene

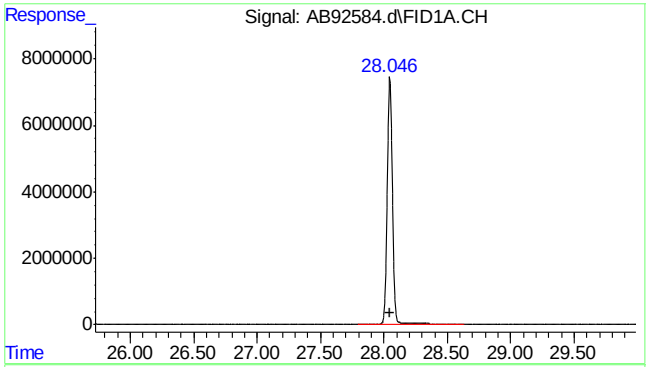
R.T.: 25.108 min
Delta R.T.: 0.000 min
Response: 587315803
Conc: 884.67 ppb



#19 butylcyclohexane

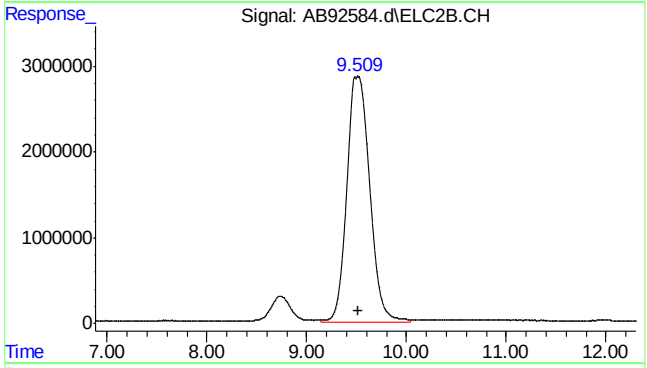
R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 562827500
Conc: 840.83 ppb m

SGS ACCUTEST MC45611



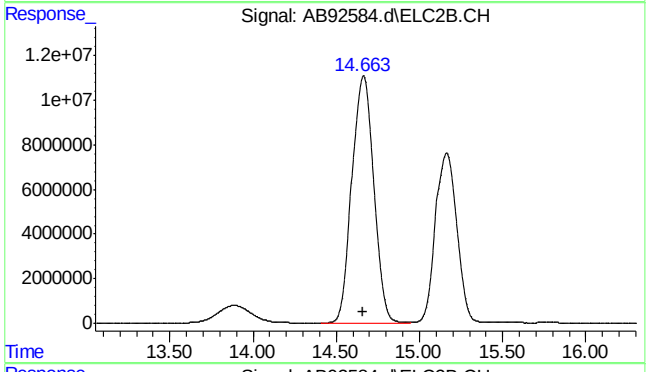
#20 naphthalene

R.T.: 28.047 min
Delta R.T.: 0.000 min
Response: 210531385
Conc: 576.89 ppb



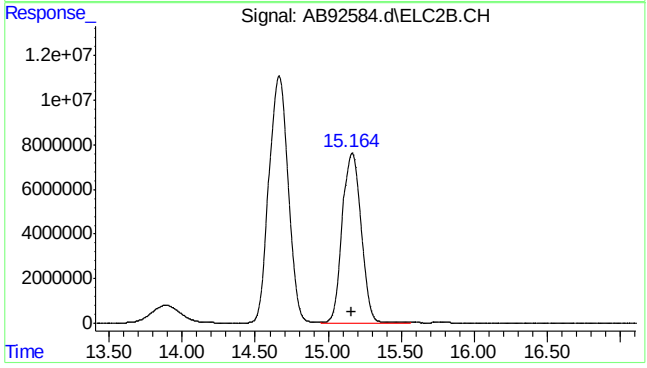
#23 mtbe #2

R.T.: 9.509 min
Delta R.T.: -0.009 min
Response: 458231518
Conc: 898.09 ppb m



#24 benzene #2

R.T.: 14.663 min
Delta R.T.: 0.005 min
Response: 1012253857
Conc: 756.64 ppb



#25 fluorobenzene #2

R.T.: 15.163 min
Delta R.T.: 0.005 min
Response: 685273250
Conc: 795.10 ppb

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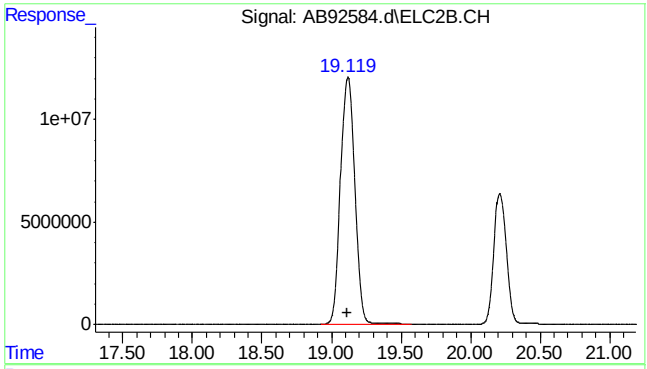
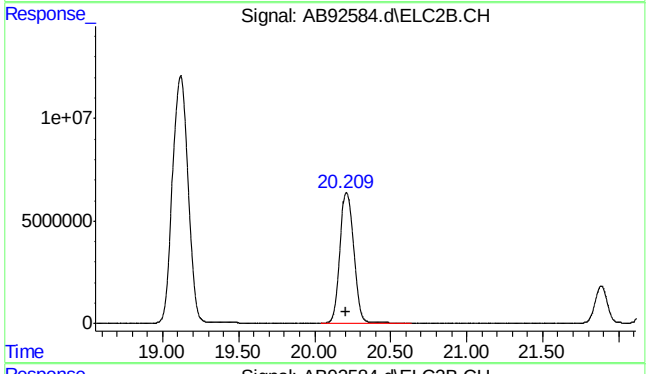


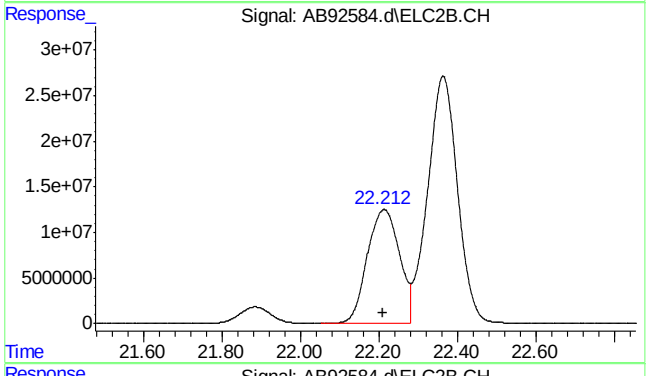
#26 toluene #2

R.T.: 19.120 min
Delta R.T.: 0.004 min
Response: 865343050
Conc: 734.57 ppb



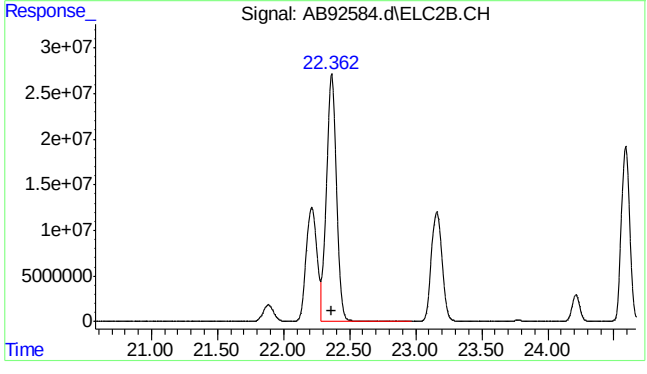
#27 2,3,4-trifluorotoluene #2

R.T.: 20.209 min
Delta R.T.: -0.001 min
Response: 406096099
Conc: 855.88 ppb



#28 ethylbenzene #2

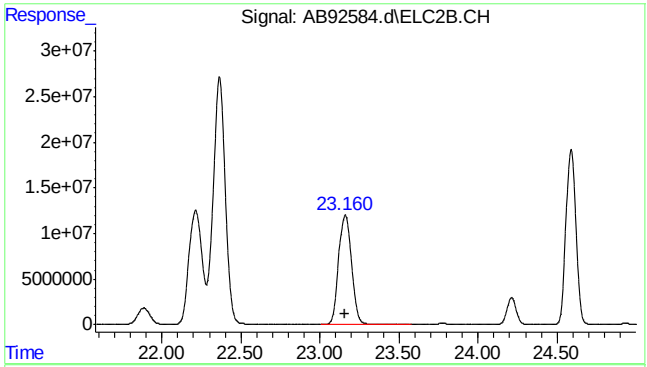
R.T.: 22.213 min
Delta R.T.: 0.003 min
Response: 713837963
Conc: 749.55 ppb



#29 m,p-xylene #2

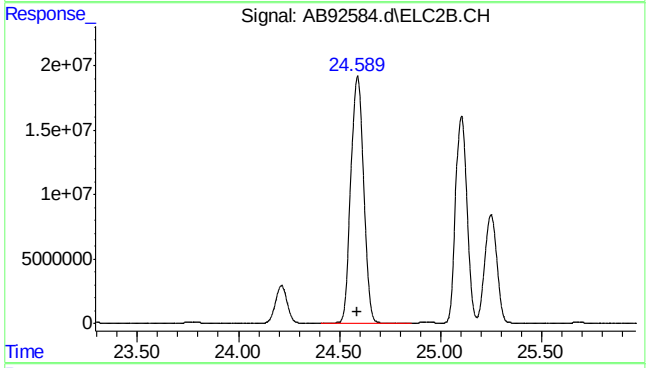
R.T.: 22.363 min
Delta R.T.: 0.004 min
Response: 1438627603
Conc: 1303.82 ppb

SGS ACCUTEST MC45611



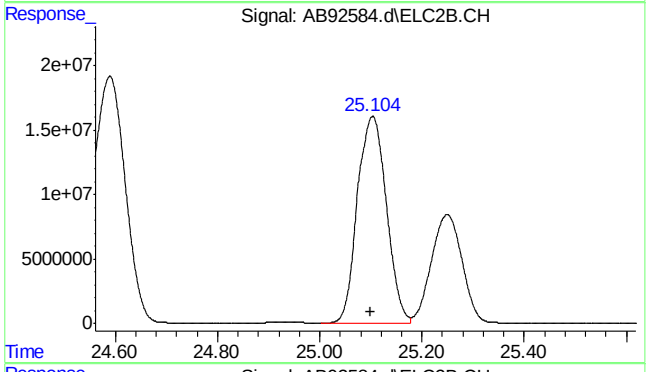
#30 o-xylene #2

R.T.: 23.160 min
Delta R.T.: 0.004 min
Response: 684382724
Conc: 708.94 ppb



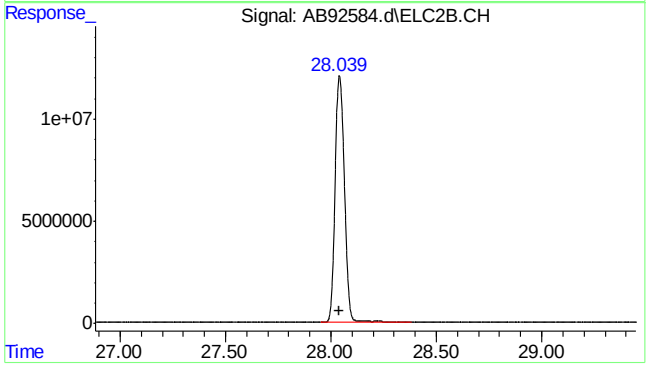
#31 1,3,5-trimethylbenzene #2

R.T.: 24.589 min
Delta R.T.: 0.004 min
Response: 848158738
Conc: 621.91 ppb



#32 1,2,4-trimethylbenzene #2

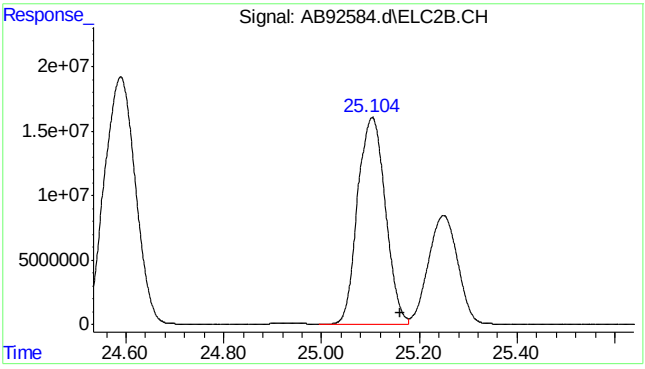
R.T.: 25.103 min
Delta R.T.: 0.004 min
Response: 633290350
Conc: 634.87 ppb



#33 naphthalene #2

R.T.: 28.039 min
Delta R.T.: -0.003 min
Response: 370568666
Conc: 481.12 ppb m

SGS ACCUTEST MC45611




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

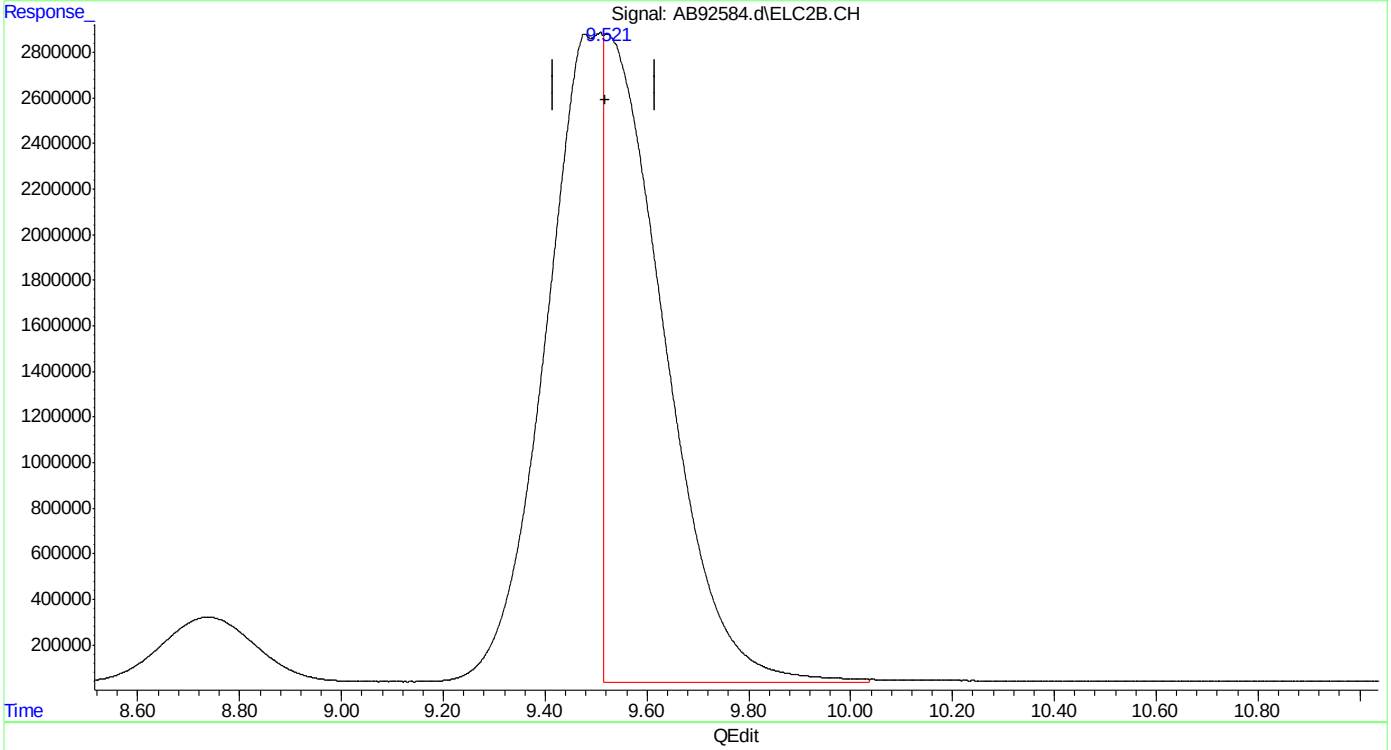
      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 633177055
      Conc: 634.03 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.522min 457.285 ppb
response 233320397

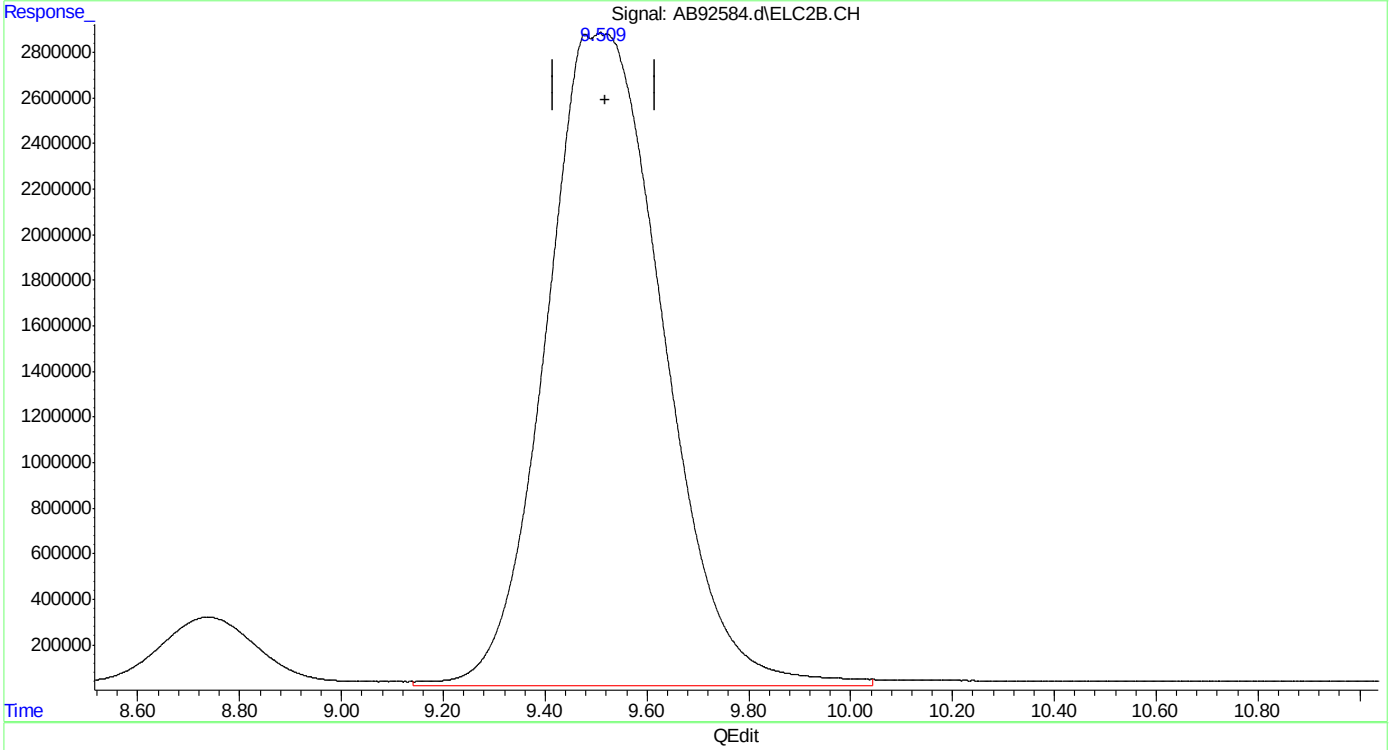
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.509min 898.088 ppb m
response 458231518

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:18:49 2016

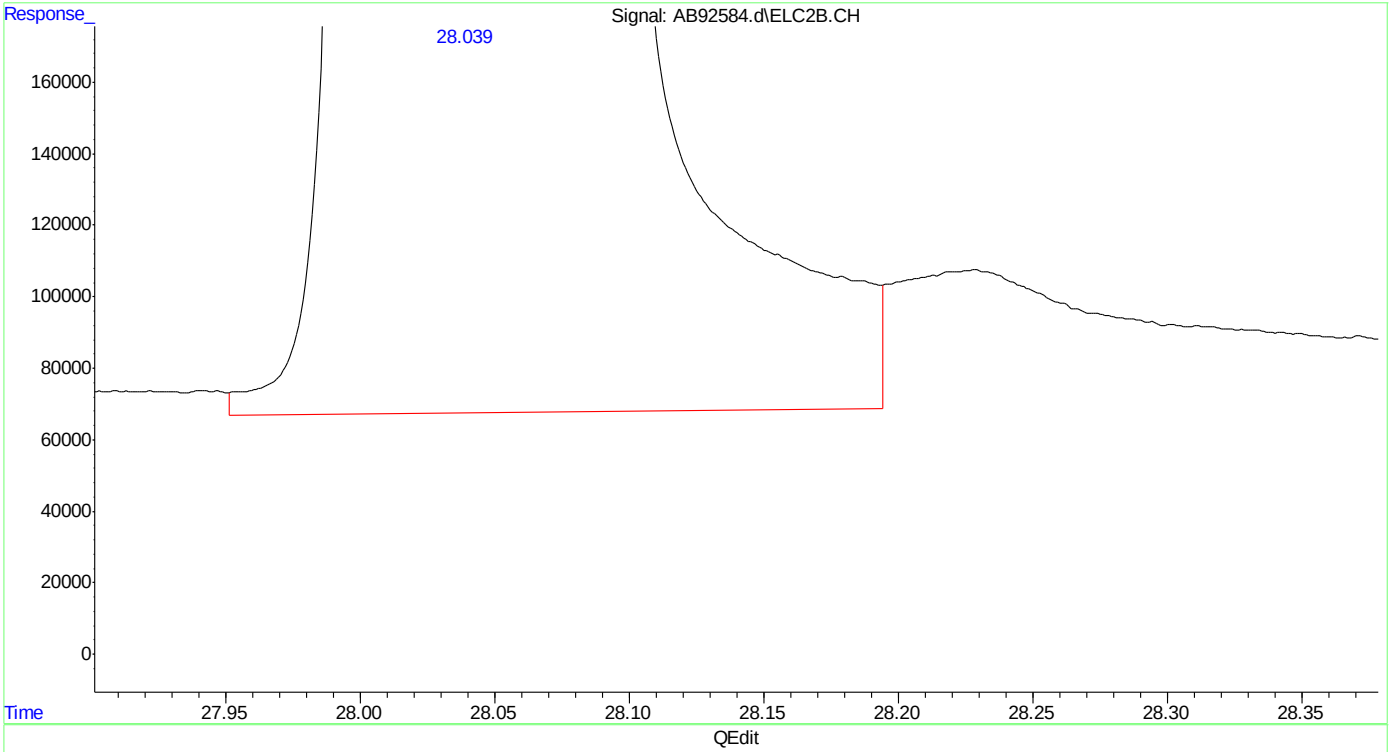
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.041min 479.998 ppb
response 369706145

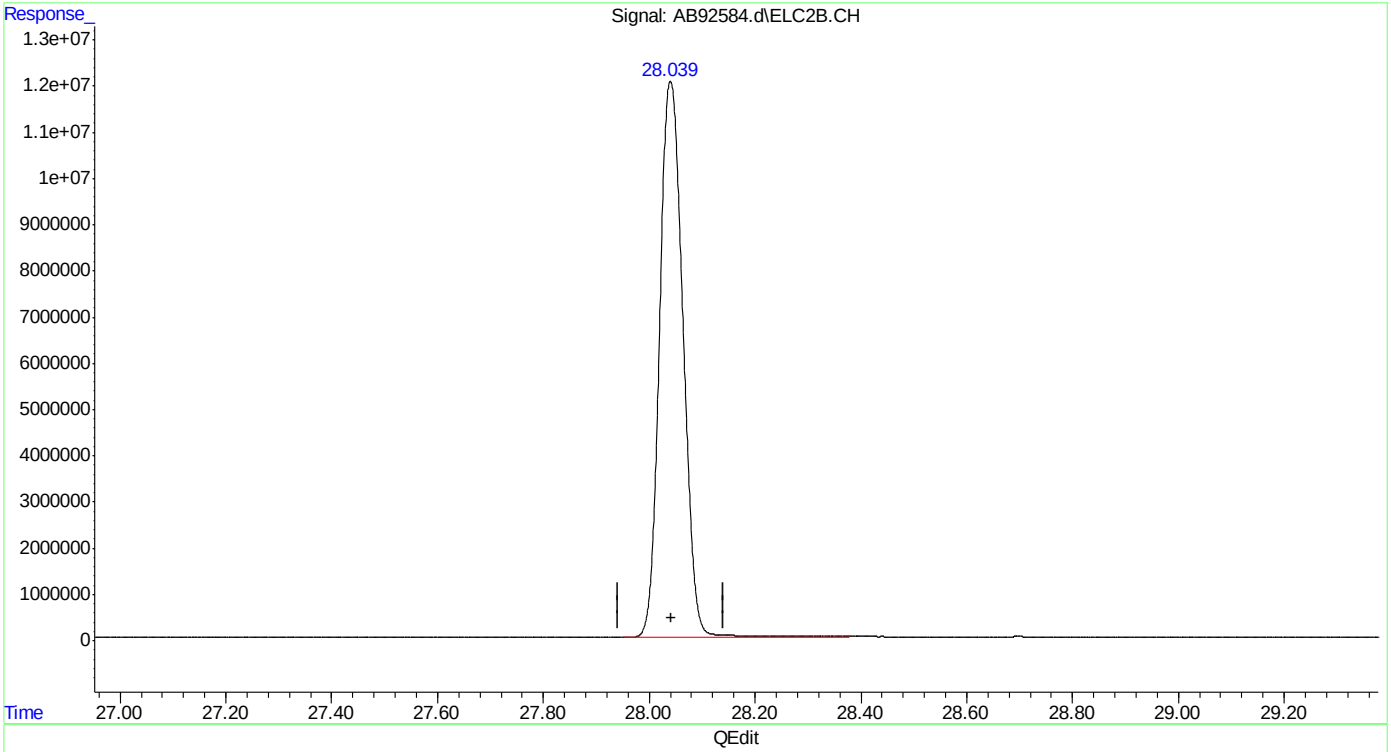
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:19:00 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92584.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 08:27:24
Operator : haleyn
Sample : ic5058-1000
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:45 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.039min 481.118 ppb m
response 370568666

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:19:12 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:25 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.167	216882663	492.050	ppb	
Spiked Amount 50.000		Recovery	= 984.10%		
9) s 2,3,4-trifluorotoluene	20.218	196404820	474.362	ppb	
Spiked Amount 50.000		Recovery	= 948.72%		
25) s fluorobenzene #2	15.158	397668816	456.372	ppb	m
Spiked Amount 50.000		Recovery	= 912.74%		
27) s 2,3,4-trifluorotoluen...	20.210	223595831	467.409	ppb	
Spiked Amount 50.000		Recovery	= 934.82%		
Target Compounds					
1) h rt5.5-7	6.370	167372218	451.525	ppb	m
2) h rt7/10	8.710	194354385	457.315	ppb	m
3) mtbe	9.523	100621422	463.832	ppb	
4) h rt10/13	13.890	155650694	334.087	ppb	m
5) benzene	14.665	267858223	488.839	ppb	
8) toluene	19.122	292200946	485.358	ppb	
11) h rt20/25	21.900	289348466	475.004	ppb	m
13) ethylbenzene	22.217	308911008	483.540	ppb	
14) m,p-xylene	22.362	636990267	957.310	ppb	
15) o-xylene	23.164	316689512	475.158	ppb	
16) h decane	24.230	295400585	471.541	ppb	
17) t 1,3,5-trimethylbenzene	24.591	331881485	461.442	ppb	
18) 1,2,4-trimethylbenzene	25.107	308655844	460.312	ppb	
19) h butylcyclohexane	25.263	299471611	440.767	ppb	m
20) naphthalene	28.048	135255122	357.411	ppb	
23) mtbe #2	9.518	249261174	486.931	ppb	
24) benzene #2	14.659	570790388	417.898	ppb	
26) toluene #2	19.116	496230051	411.968	ppb	
28) ethylbenzene #2	22.209	416724163	429.905	ppb	
29) m,p-xylene #2	22.359	786287585	684.506	ppb	
30) o-xylene #2	23.156	407133845	412.520	ppb	
31) t 1,3,5-trimethylbenzen...	24.585	527310266	374.517	ppb	
32) 1,2,4-trimethylbenzen...	25.099	394779461	384.322	ppb	
33) naphthalene #2	28.042	263547441	327.406	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	394605223	383.643	ppb	m

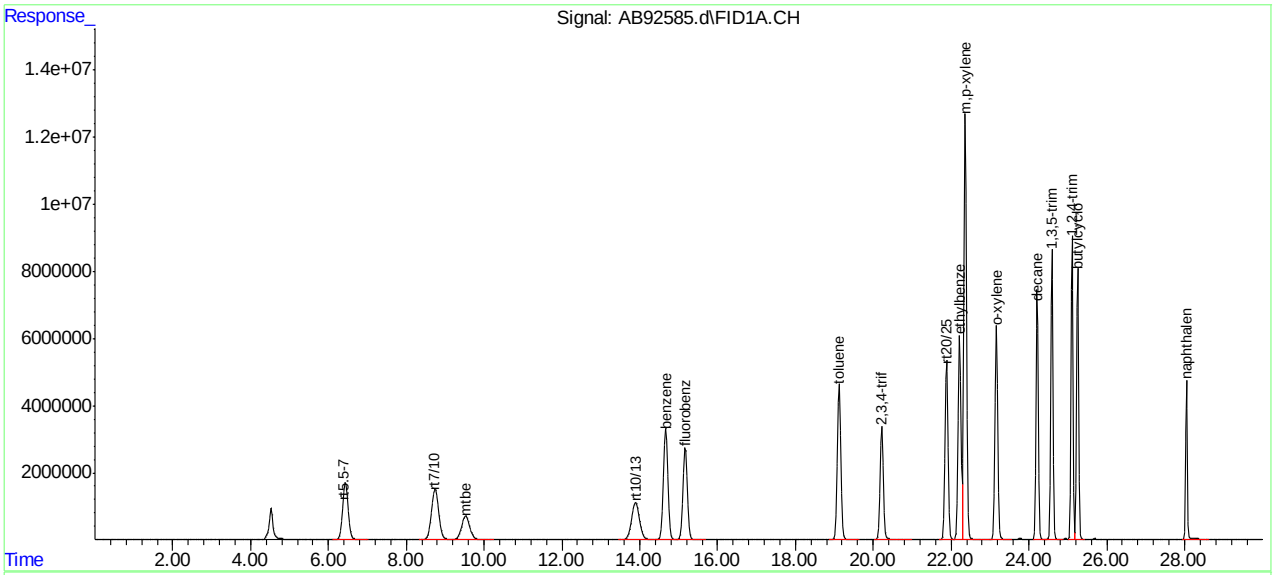
(f)=RT Delta > 1/2 Window (m)=manual int.

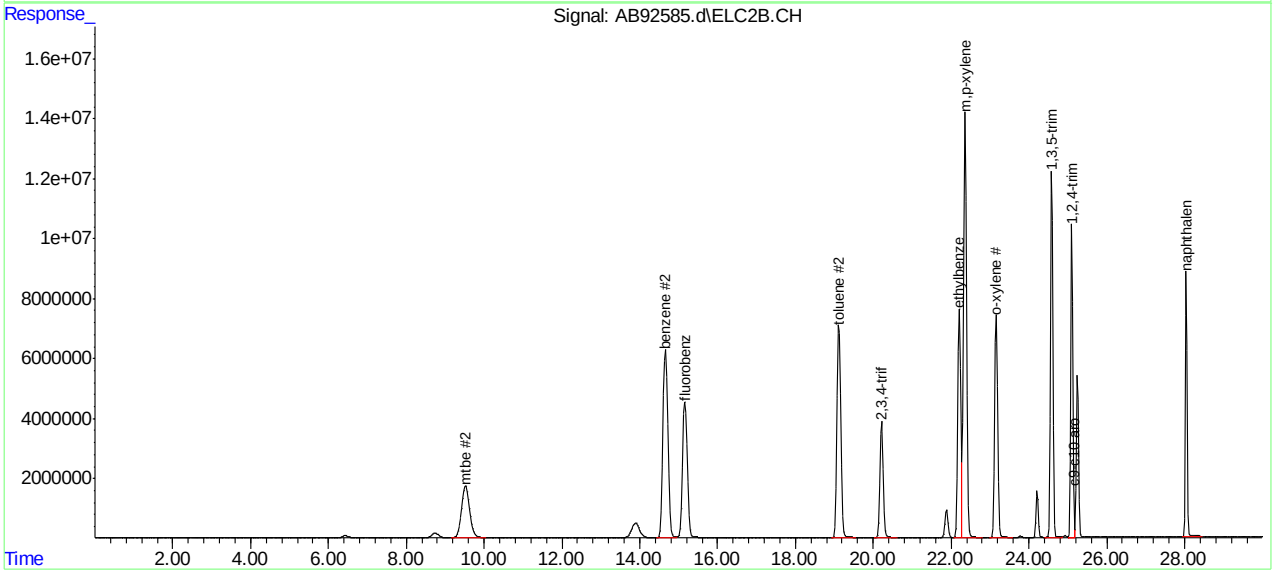
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:25 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





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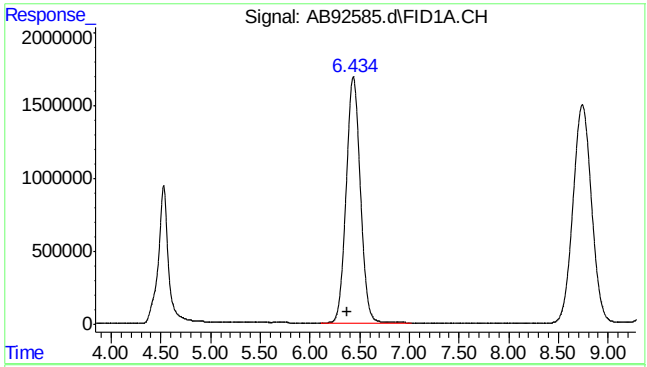
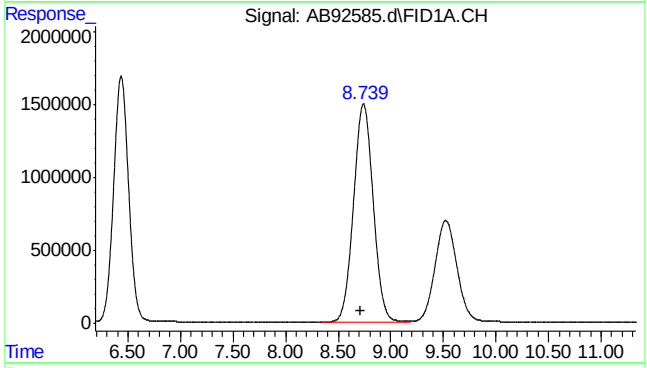


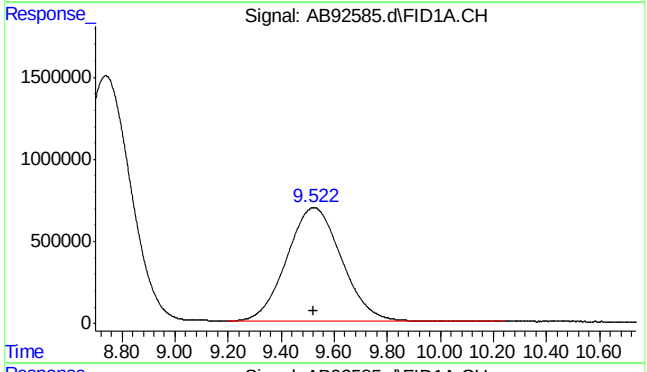
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 167372218
Conc: 451.53 ppb m



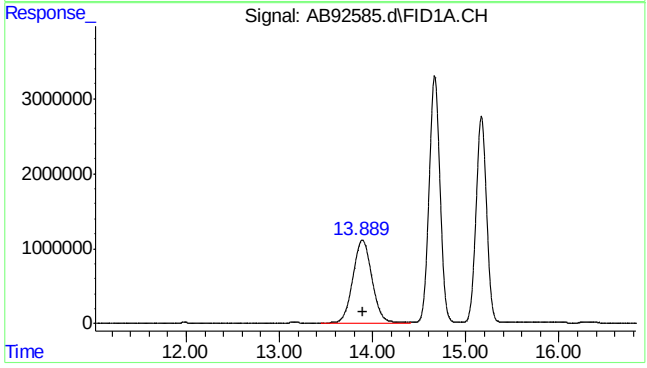
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 194354385
Conc: 457.32 ppb m



#3 mtbe

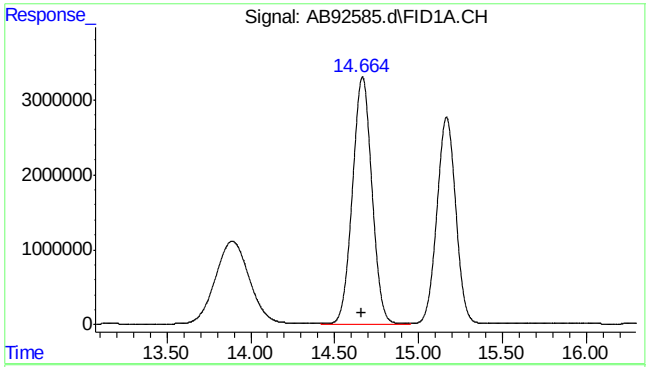
R.T.: 9.523 min
Delta R.T.: 0.000 min
Response: 100621422
Conc: 463.83 ppb



#4 rt10/13

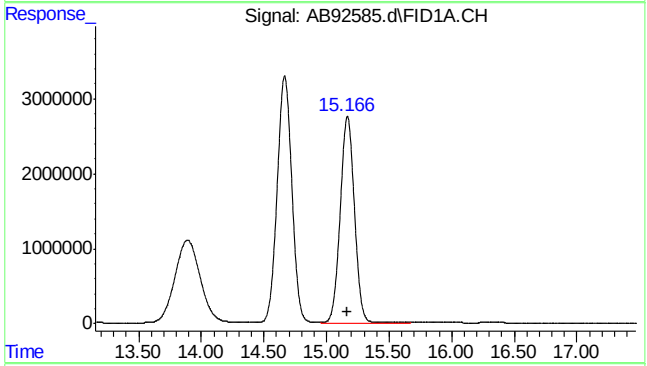
R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 155650694
Conc: 334.09 ppb m

SGS ACCUTEST MC45611



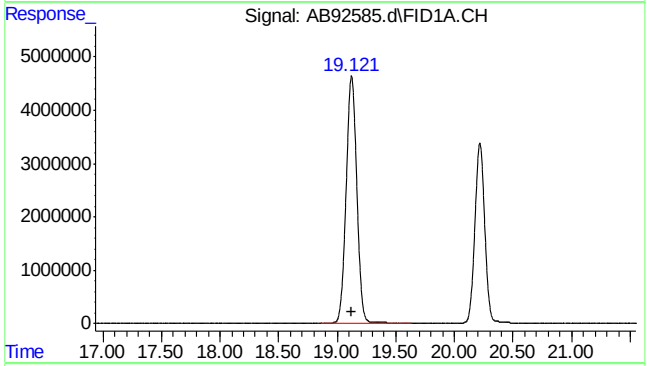
#5 benzene

R.T.: 14.665 min
Delta R.T.: 0.002 min
Response: 267858223
Conc: 488.84 ppb



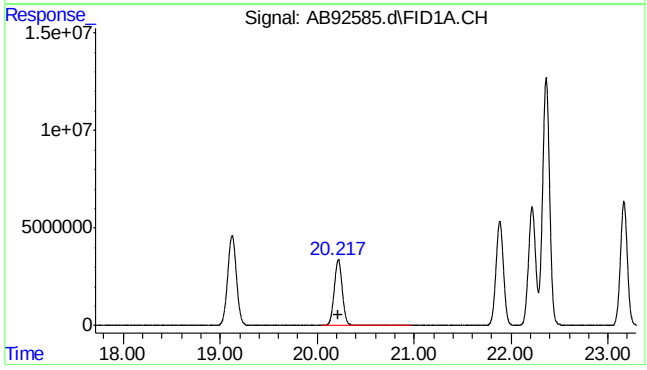
#6 fluorobenzene

R.T.: 15.167 min
Delta R.T.: 0.002 min
Response: 216882663
Conc: 492.05 ppb



#8 toluene

R.T.: 19.122 min
Delta R.T.: 0.002 min
Response: 292200946
Conc: 485.36 ppb



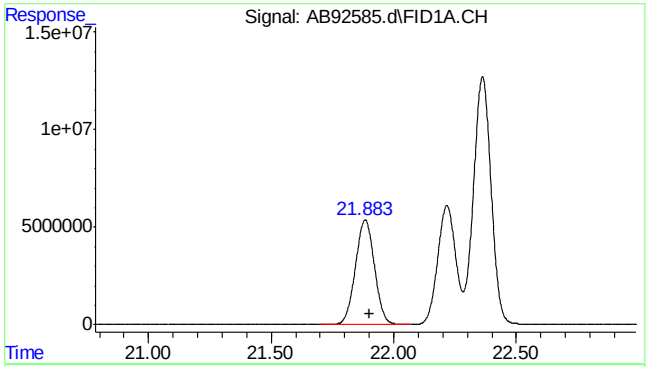
#9 2,3,4-trifluorotoluene

R.T.: 20.218 min
Delta R.T.: 0.002 min
Response: 196404820
Conc: 474.36 ppb

7.5.2

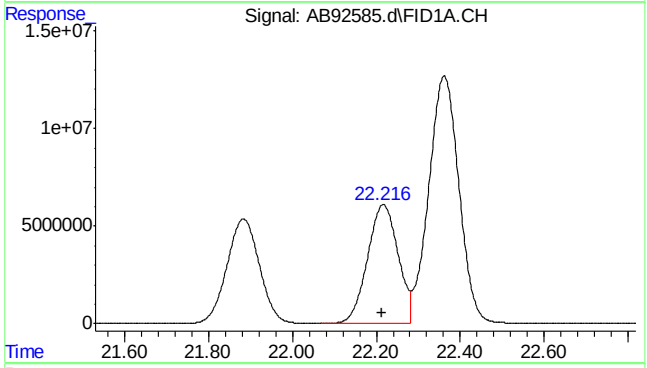
7

SGS ACCUTEST MC45611



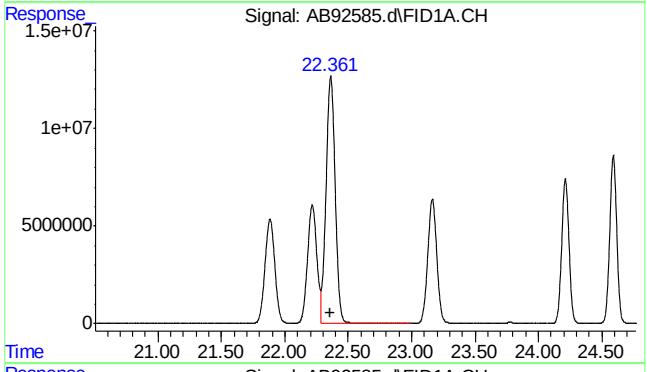
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 289348466
Conc: 475.00 ppb m



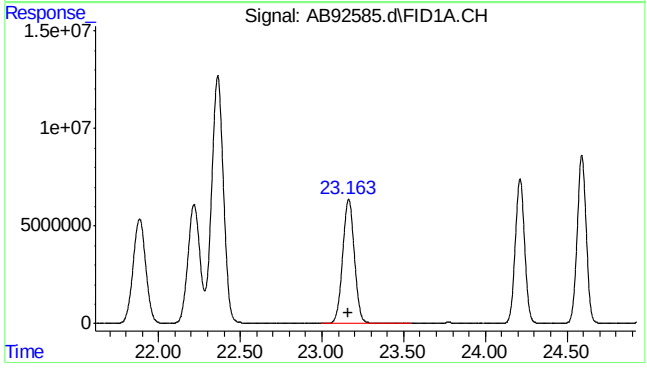
#13 ethylbenzene

R.T.: 22.217 min
Delta R.T.: 0.003 min
Response: 308911008
Conc: 483.54 ppb



#14 m,p-xylene

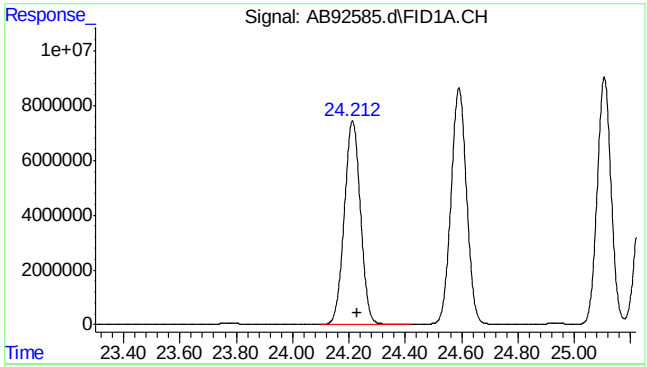
R.T.: 22.362 min
Delta R.T.: 0.003 min
Response: 636990267
Conc: 957.31 ppb



#15 o-xylene

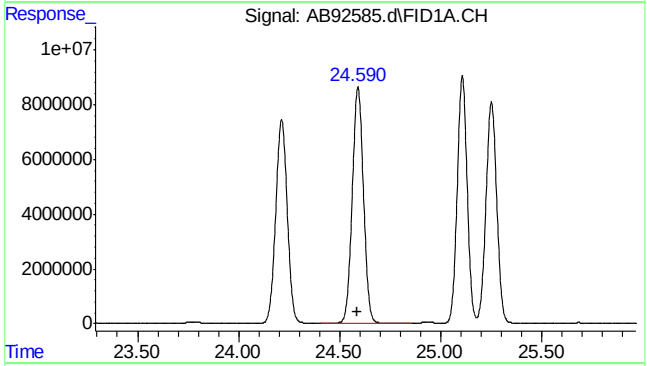
R.T.: 23.164 min
Delta R.T.: 0.002 min
Response: 316689512
Conc: 475.16 ppb

SGS ACCUTEST MC45611



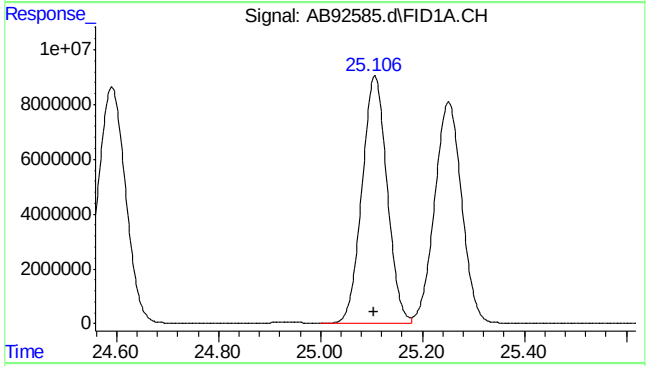
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 295400585
Conc: 471.54 ppb



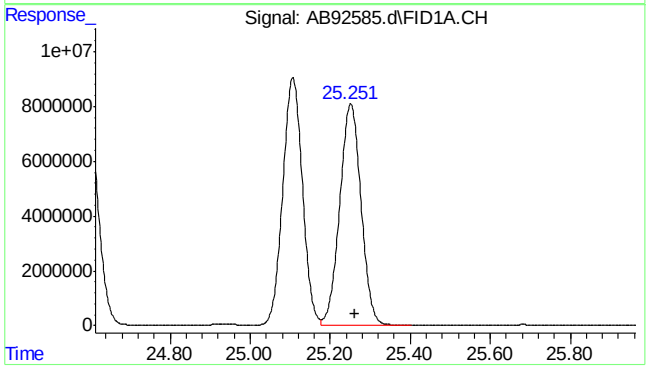
#17 1,3,5-trimethylbenzene

R.T.: 24.591 min
Delta R.T.: 0.002 min
Response: 331881485
Conc: 461.44 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.107 min
Delta R.T.: 0.000 min
Response: 308655844
Conc: 460.31 ppb



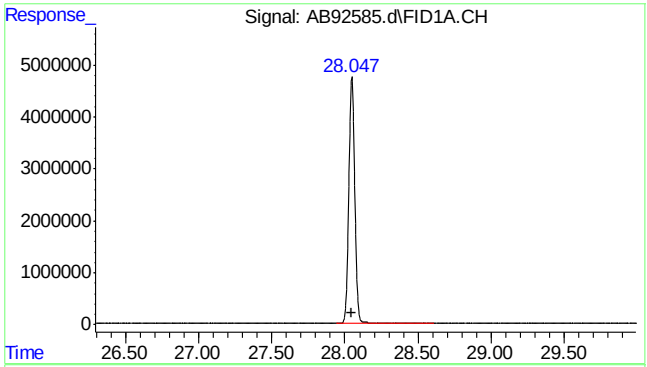
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 299471611
Conc: 440.77 ppb m

7.5.2

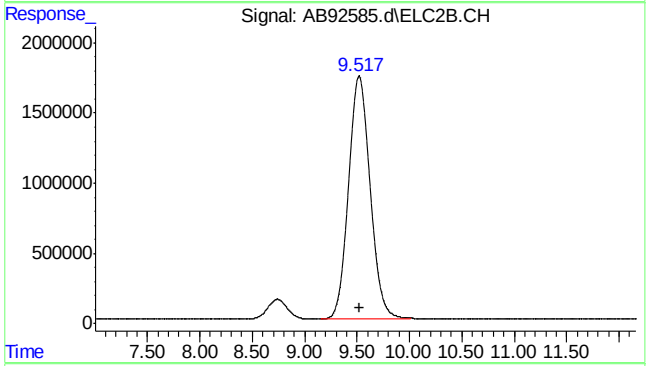
7

SGS ACCUTEST MC45611



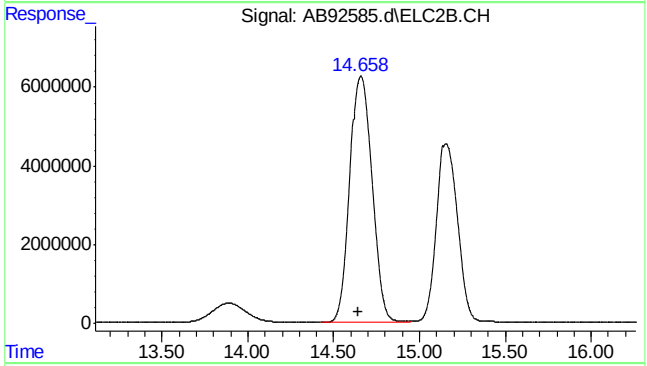
#20 naphthalene

R.T.: 28.048 min
Delta R.T.: 0.000 min
Response: 135255122
Conc: 357.41 ppb



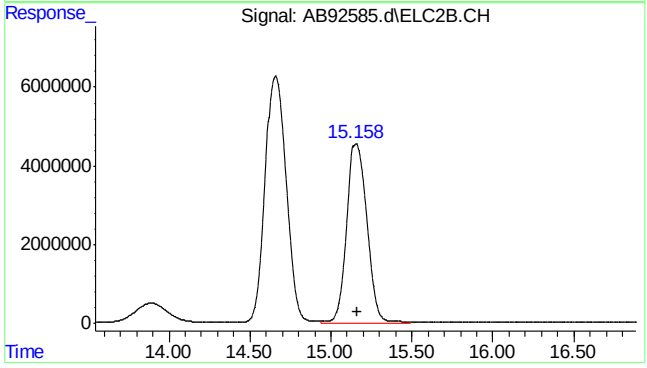
#23 mtbe #2

R.T.: 9.518 min
Delta R.T.: -0.005 min
Response: 249261174
Conc: 486.93 ppb



#24 benzene #2

R.T.: 14.659 min
Delta R.T.: 0.018 min
Response: 570790388
Conc: 417.90 ppb



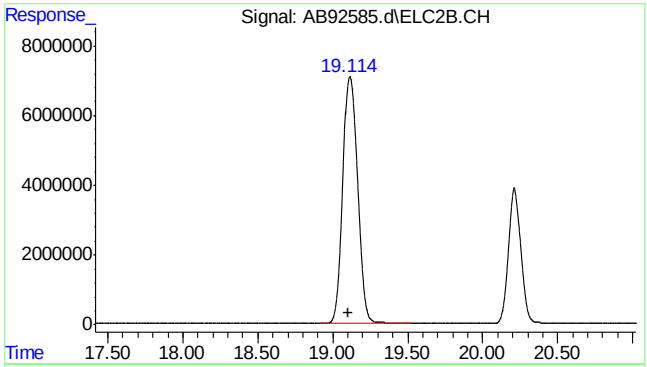
#25 fluorobenzene #2

R.T.: 15.158 min
Delta R.T.: -0.003 min
Response: 397668816
Conc: 456.37 ppb m

7.5.2

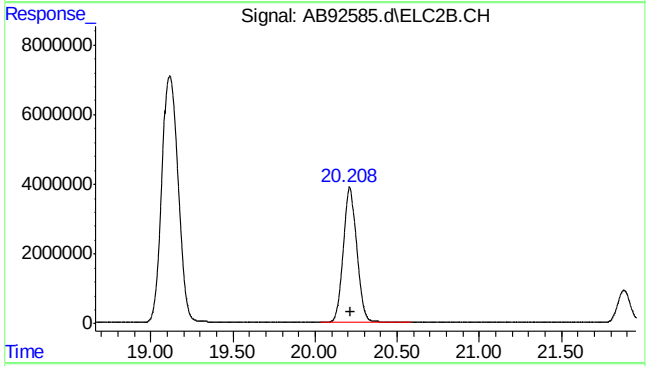
7

SGS ACCUTEST MC45611



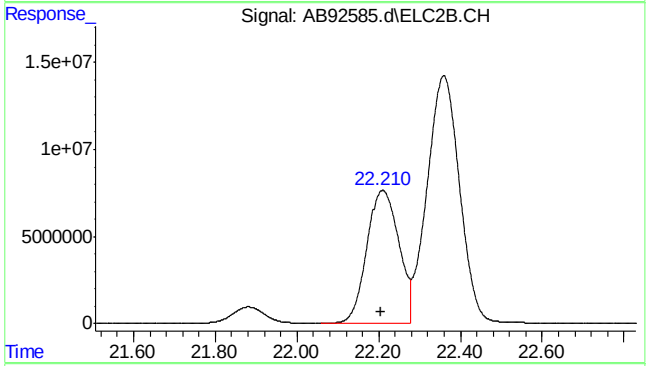
#26 toluene #2

R.T.: 19.116 min
Delta R.T.: 0.010 min
Response: 496230051
Conc: 411.97 ppb



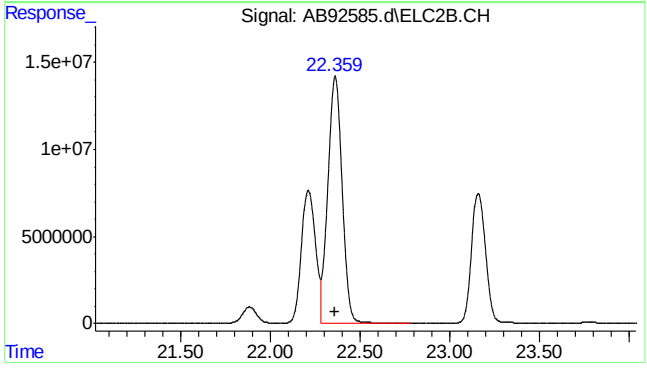
#27 2,3,4-trifluorotoluene #2

R.T.: 20.210 min
Delta R.T.: -0.003 min
Response: 223595831
Conc: 467.41 ppb



#28 ethylbenzene #2

R.T.: 22.209 min
Delta R.T.: 0.004 min
Response: 416724163
Conc: 429.91 ppb



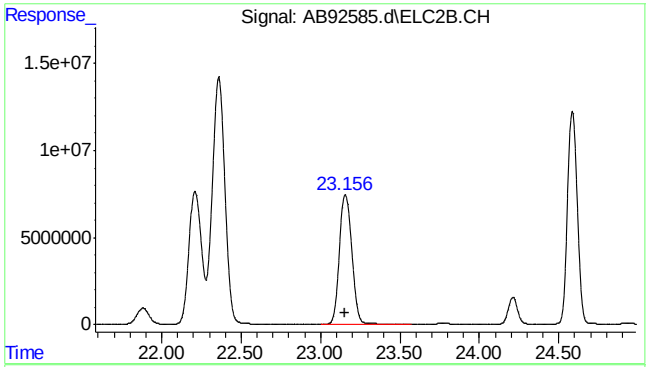
#29 m,p-xylene #2

R.T.: 22.359 min
Delta R.T.: 0.004 min
Response: 786287585
Conc: 684.51 ppb

7.5.2

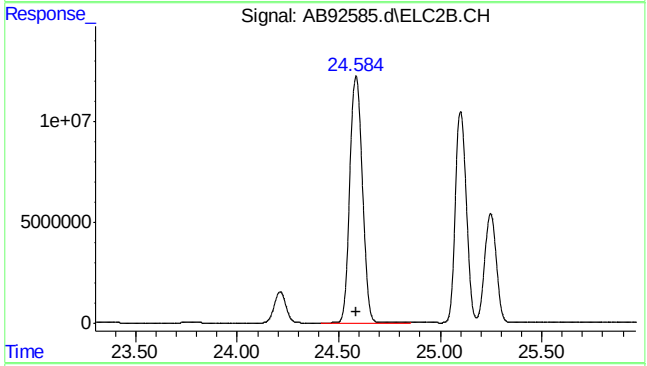
7

SGS ACCUTEST MC45611



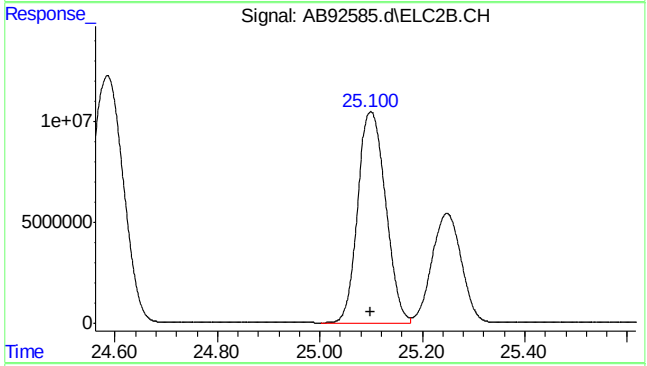
#30 o-xylene #2

R.T.: 23.156 min
Delta R.T.: 0.002 min
Response: 407133845
Conc: 412.52 ppb



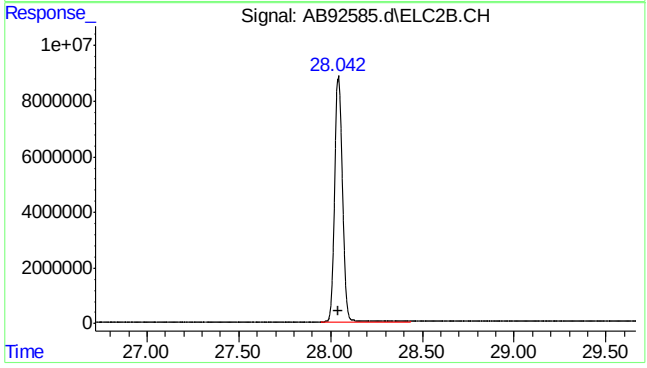
#31 1,3,5-trimethylbenzene #2

R.T.: 24.585 min
Delta R.T.: 0.001 min
Response: 527310266
Conc: 374.52 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.099 min
Delta R.T.: 0.000 min
Response: 394779461
Conc: 384.32 ppb

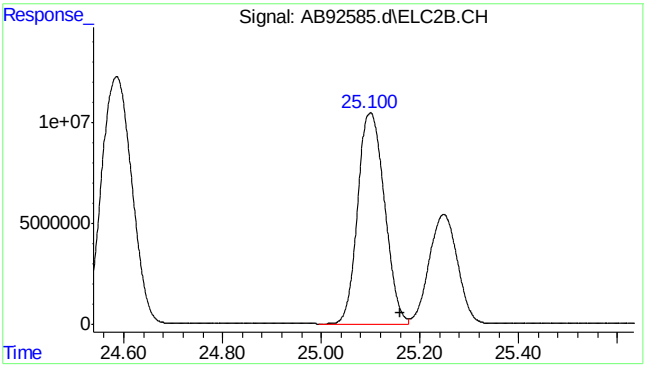


#33 naphthalene #2

R.T.: 28.042 min
Delta R.T.: 0.000 min
Response: 263547441
Conc: 327.41 ppb m

7.5.2

7




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

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 394605223
      Conc: 383.64 ppb m
```

7.5.2

7

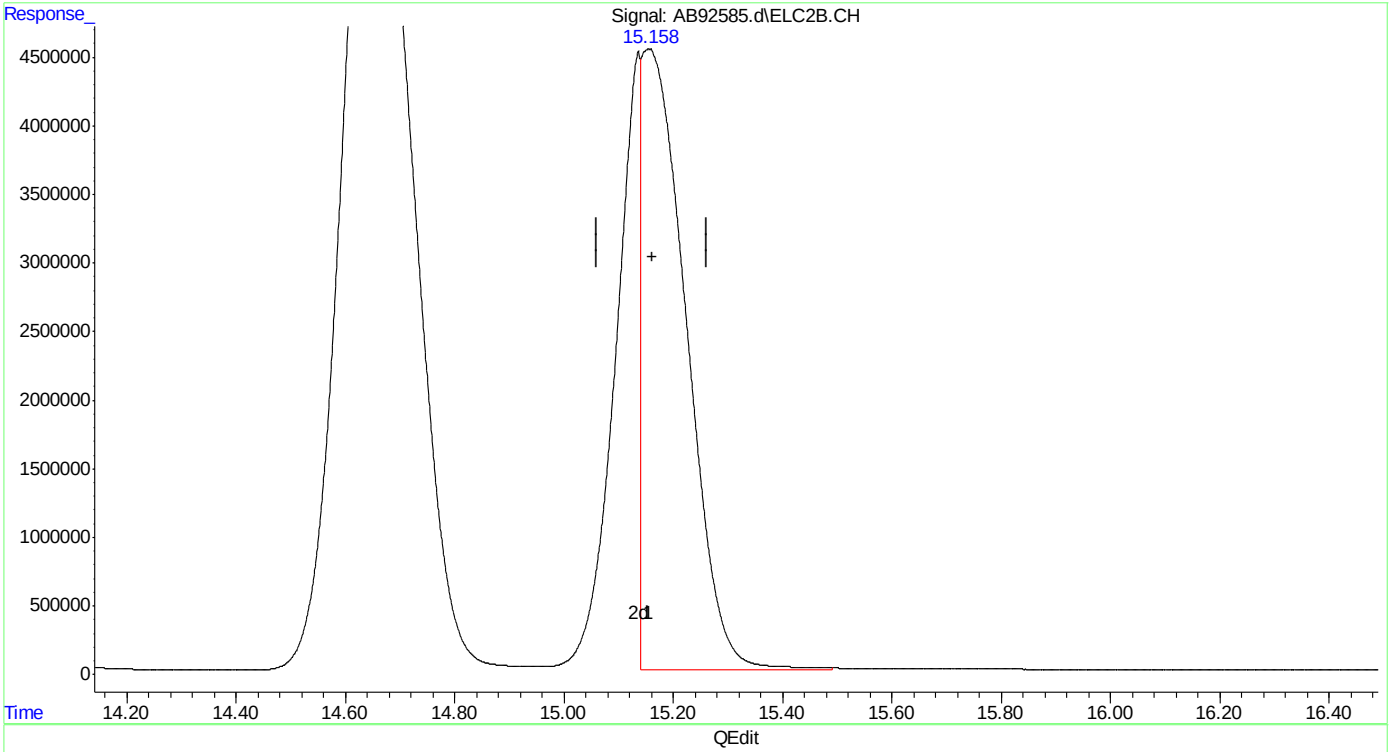
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:04:35
Operator  : haleyn
Sample    : ic5058-500
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)

15.154min 291.613 ppb

response 254102913

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:15:50 2016

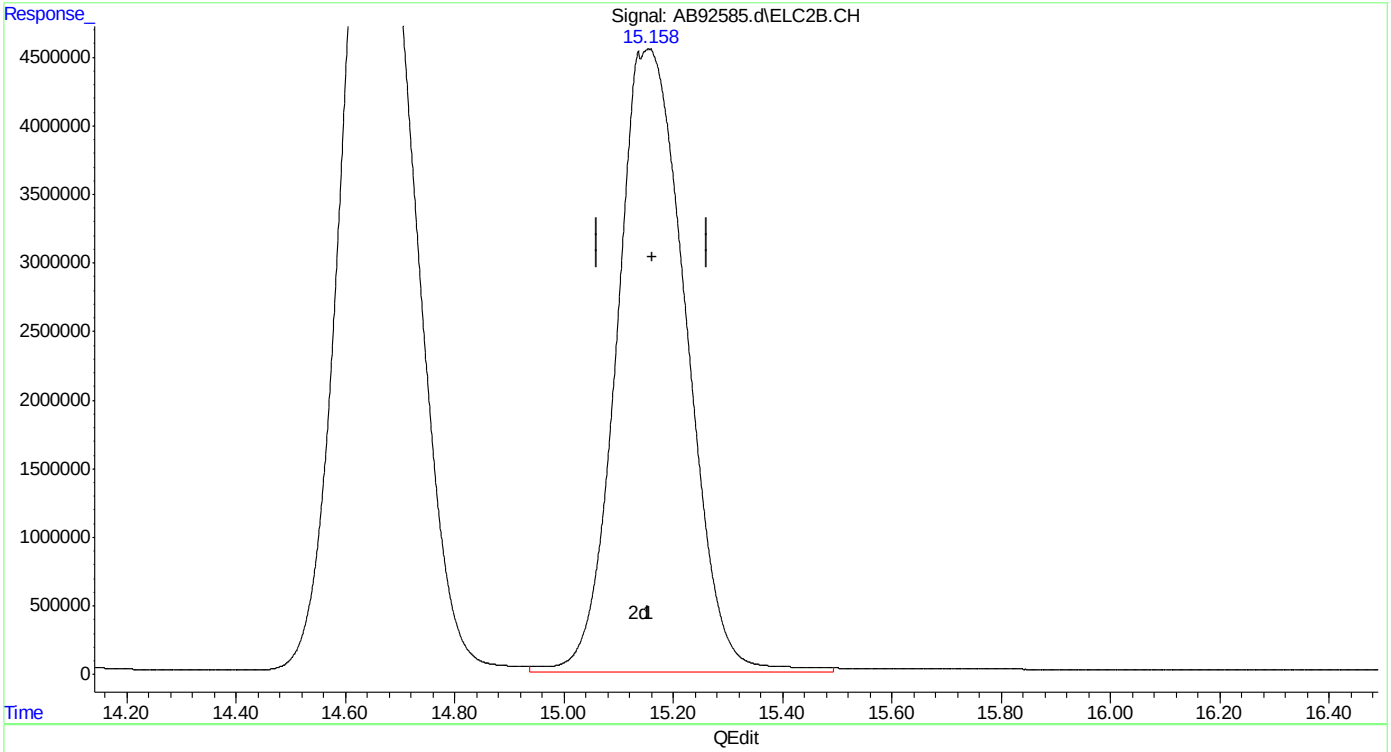
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:04:35
Operator  : haleyn
Sample    : ic5058-500
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)

15.158min 456.372 ppb m

response 397668816

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:15:55 2016

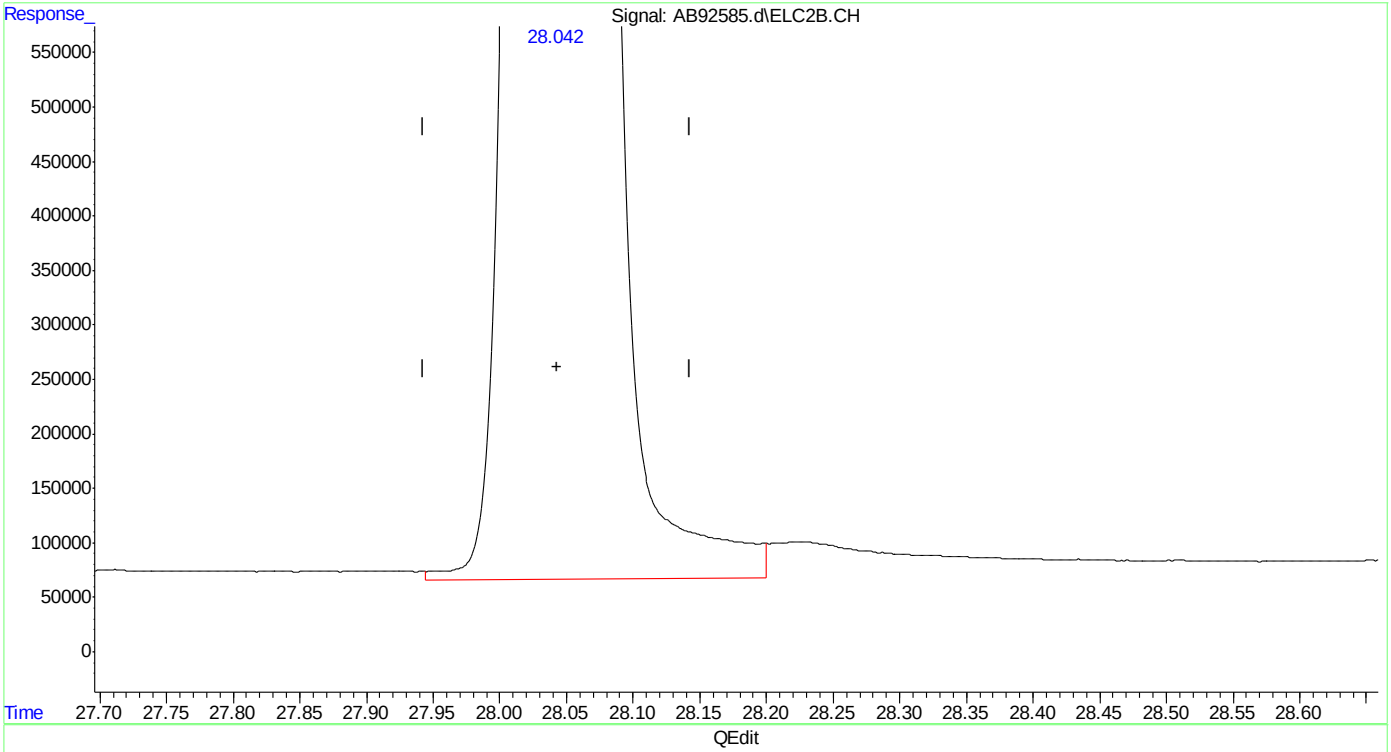
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.042min 325.270 ppb
response 261828192

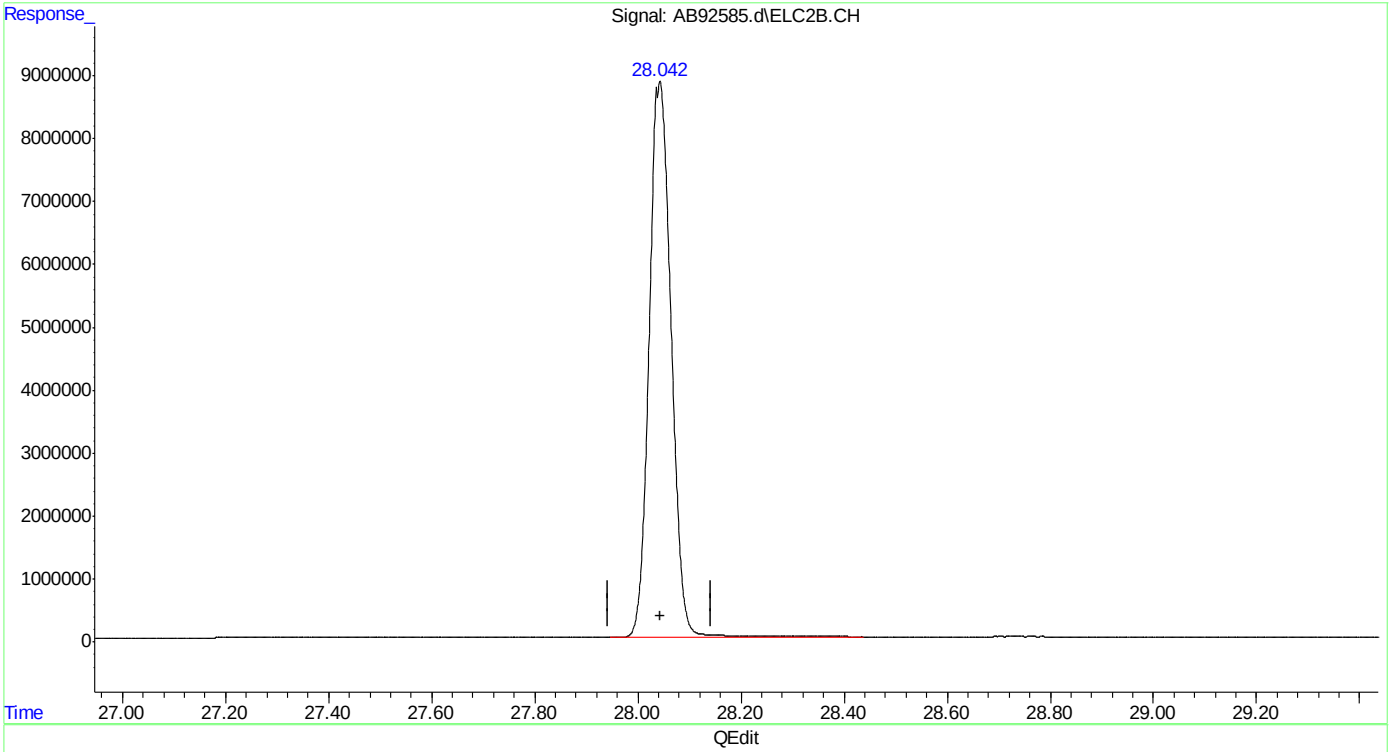
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:04:35
Operator  : haleyn
Sample    : ic5058-500
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:14:21 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2

28.042min 327.406 ppb m

response 263547441

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:16:14 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:41:35
Operator : haleyn
Sample : ic5058-250
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:13:44 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.165	107110583	241.878 ppb	
Spiked Amount 50.000		Recovery	= 483.76%	
9) s 2,3,4-trifluorotoluene	20.216	97260456	232.566 ppb	
Spiked Amount 50.000		Recovery	= 465.13%	
25) s fluorobenzene #2	15.161	215884692	247.382 ppb	
Spiked Amount 50.000		Recovery	= 494.76%	
27) s 2,3,4-trifluorotoluen...	20.213	116429742	242.319 ppb	
Spiked Amount 50.000		Recovery	= 484.64%	
Target Compounds				
1) h rt5.5-7	6.370	83244106	220.827 ppb	m
2) h rt7/10	8.710	96840946	224.553 ppb	m
3) mtbe	9.522	51254615	234.123 ppb	
4) h rt10/13	13.890	90504546	187.297 ppb	m
5) benzene	14.663	132502238	240.503 ppb	
8) toluene	19.120	144698734	238.814 ppb	
11) h rt20/25	21.900	144023280	234.314 ppb	m
13) ethylbenzene	22.214	153475823	238.683 ppb	
14) m,p-xylene	22.359	316722218	472.211 ppb	
15) o-xylene	23.162	159273190	237.228 ppb	
16) h decane	24.230	148414165	234.860 ppb	
17) t 1,3,5-trimethylbenzene	24.589	170117803	234.423 ppb	
18) 1,2,4-trimethylbenzene	25.106	158156158	233.663 ppb	
19) h butylcyclohexane	25.263	153083117	221.661 ppb	m
20) naphthalene	28.047	79292980	204.027 ppb	
23) mtbe #2	9.523	126503933	246.652 ppb	
24) benzene #2	14.641	318344627	230.472 ppb	
26) toluene #2	19.106	274838756	224.897 ppb	
28) ethylbenzene #2	22.205	227655136	232.509 ppb	
29) m,p-xylene #2	22.355	451664302	379.681 ppb	
30) o-xylene #2	23.154	229262939	229.586 ppb	
31) t 1,3,5-trimethylbenzen...	24.584	312512766	217.886 ppb	
32) 1,2,4-trimethylbenzen...	25.099	231516865	221.745 ppb	
33) naphthalene #2	28.043	164135600	197.827 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	231134335	220.988 ppb	m

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

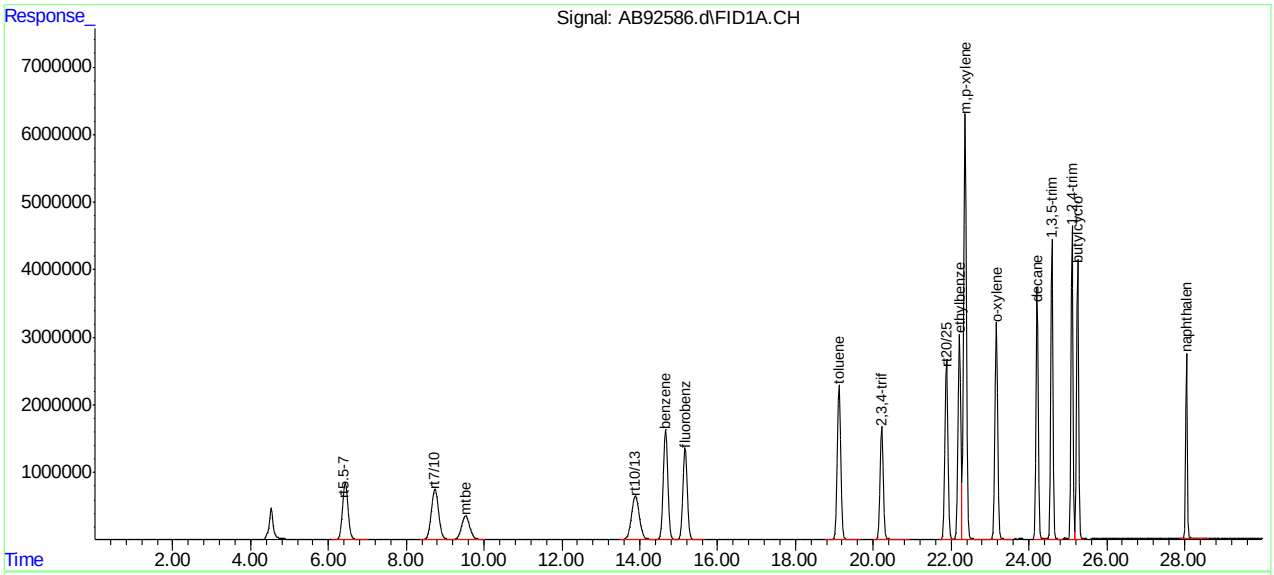
SGS ACCUTEST MC45611

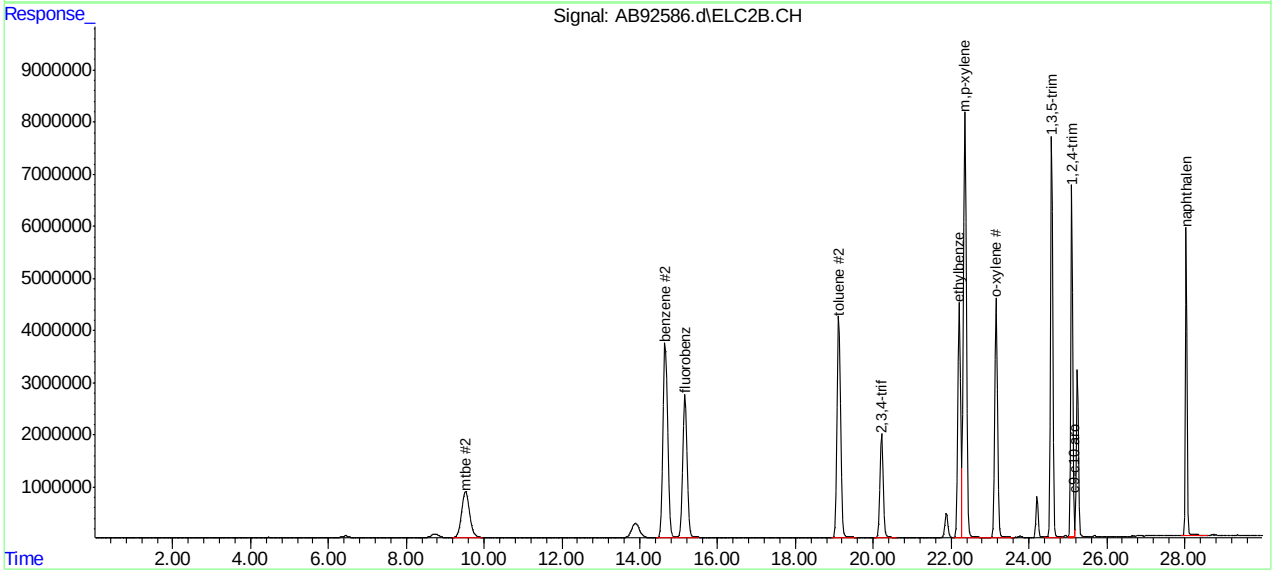
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:41:35
Operator : haleyn
Sample : ic5058-250
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

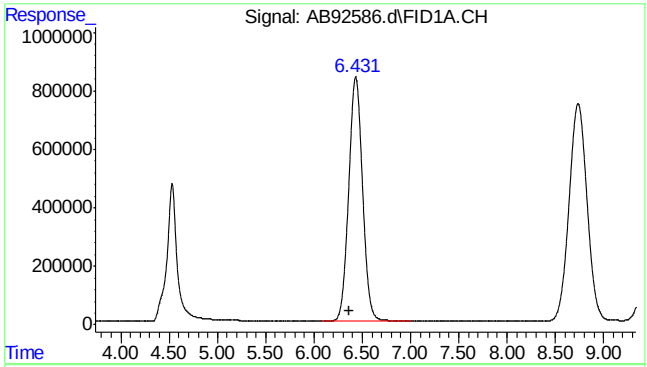
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:13:44 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



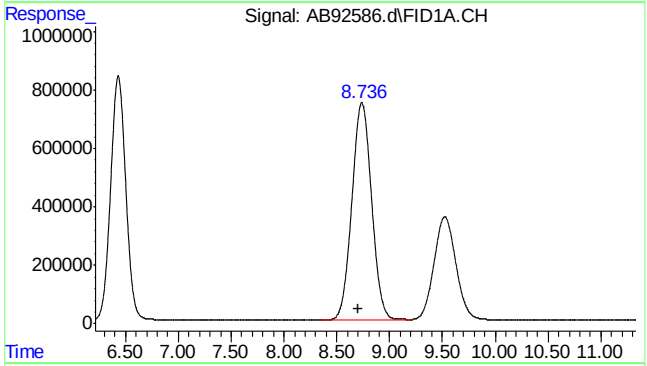


SGS ACCUTEST MC45611



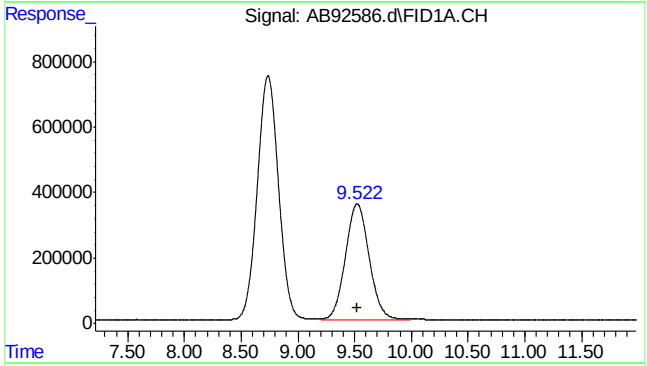
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 83244106
Conc: 220.83 ppb m



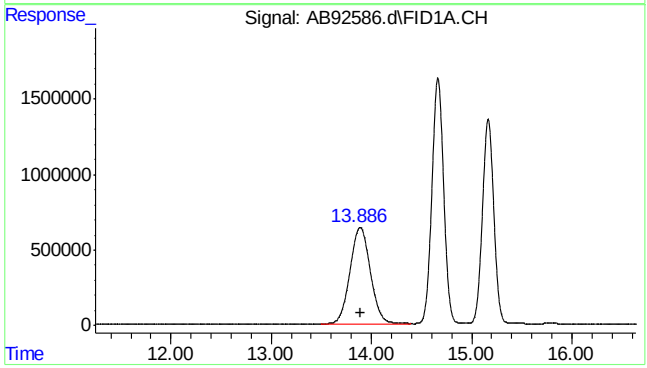
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 96840946
Conc: 224.55 ppb m



#3 mtbe

R.T.: 9.522 min
Delta R.T.: -0.002 min
Response: 51254615
Conc: 234.12 ppb



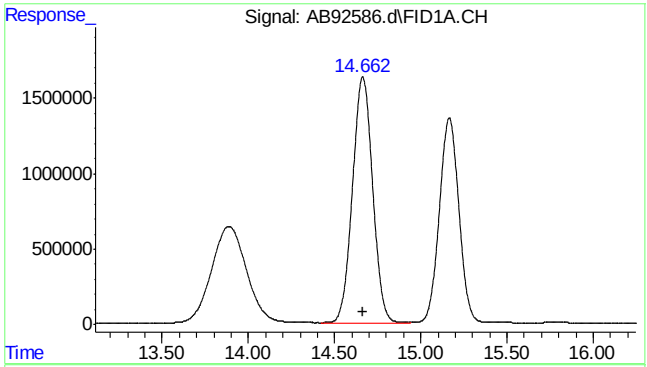
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 90504546
Conc: 187.30 ppb m

7.5.3

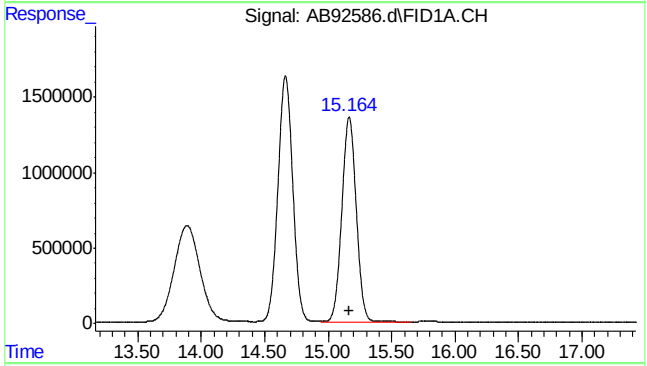
7

SGS ACCUTEST MC45611



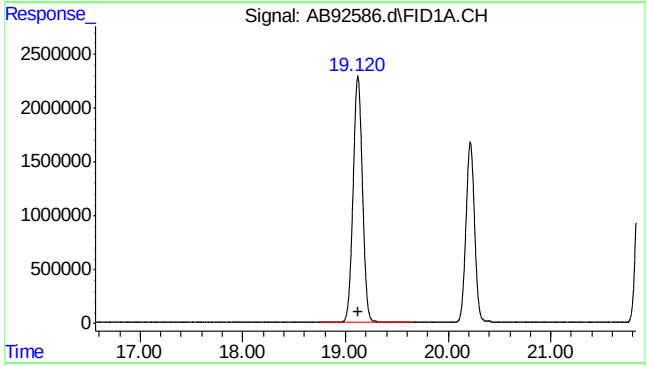
#5 benzene

R.T.: 14.663 min
Delta R.T.: -0.002 min
Response: 132502238
Conc: 240.50 ppb



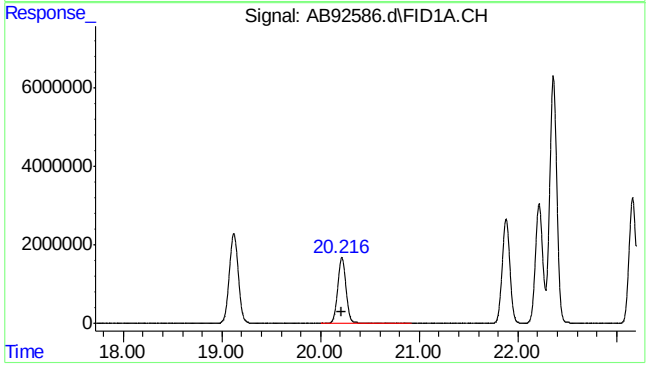
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.002 min
Response: 107110583
Conc: 241.88 ppb



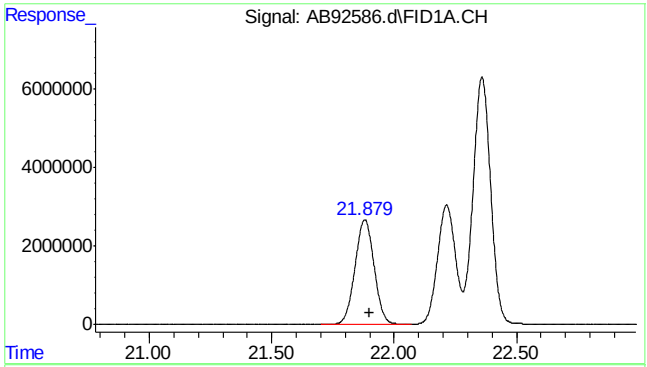
#8 toluene

R.T.: 19.120 min
Delta R.T.: -0.002 min
Response: 144698734
Conc: 238.81 ppb



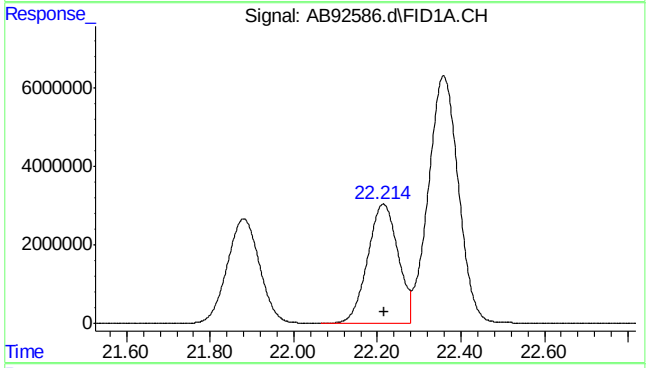
#9 2,3,4-trifluorotoluene

R.T.: 20.216 min
Delta R.T.: -0.002 min
Response: 97260456
Conc: 232.57 ppb



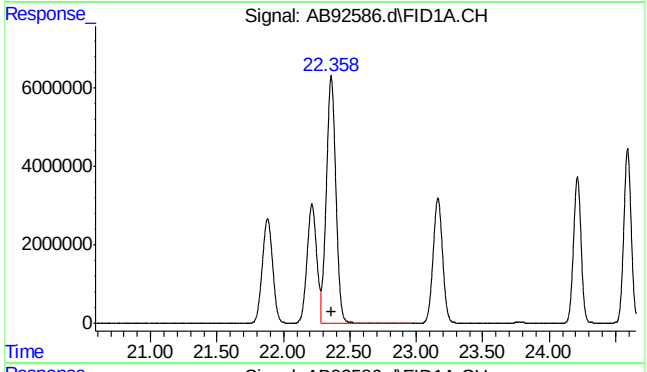
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 144023280
Conc: 234.31 ppb m



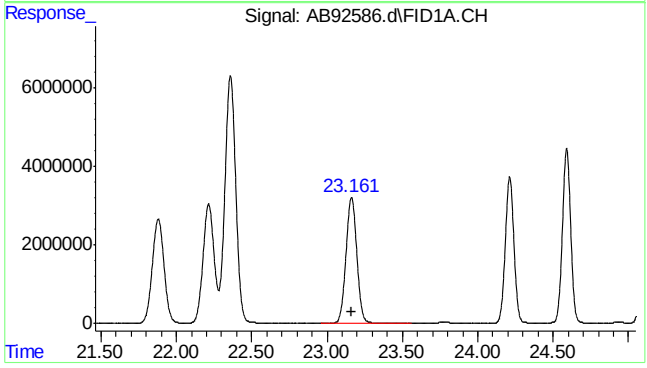
#13 ethylbenzene

R.T.: 22.214 min
Delta R.T.: -0.002 min
Response: 153475823
Conc: 238.68 ppb



#14 m,p-xylene

R.T.: 22.359 min
Delta R.T.: -0.001 min
Response: 316722218
Conc: 472.21 ppb



#15 o-xylene

R.T.: 23.162 min
Delta R.T.: -0.002 min
Response: 159273190
Conc: 237.23 ppb

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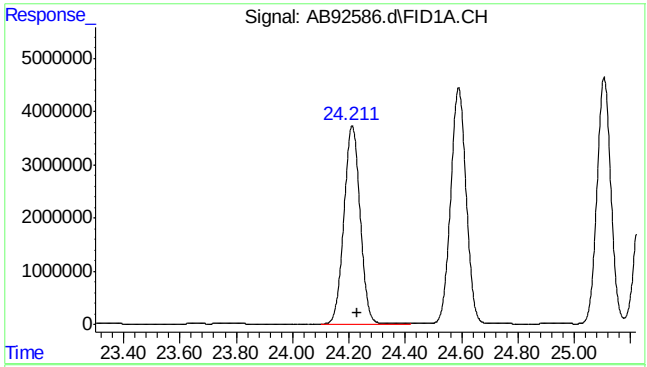
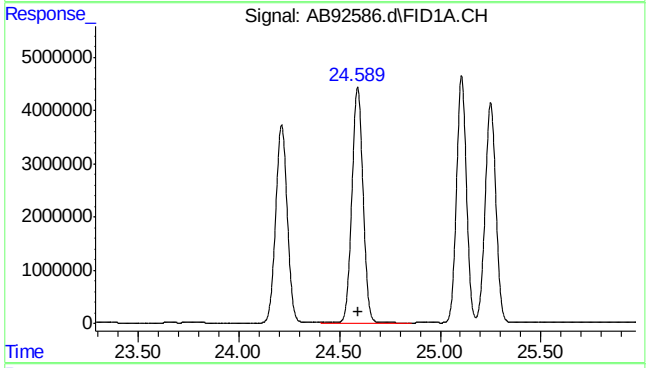


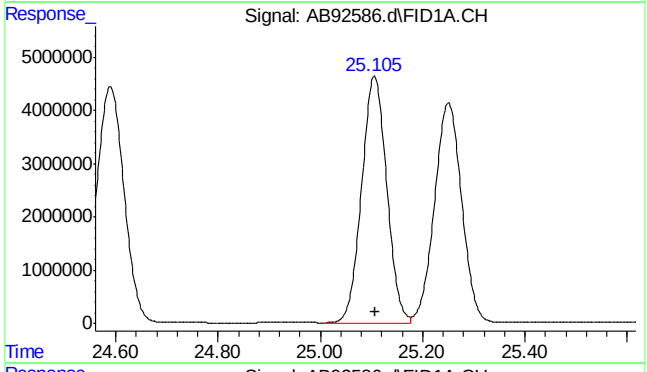
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 148414165
Conc: 234.86 ppb



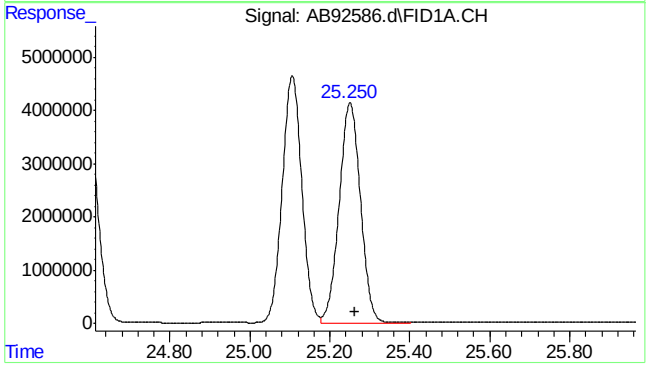
#17 1,3,5-trimethylbenzene

R.T.: 24.589 min
Delta R.T.: -0.002 min
Response: 170117803
Conc: 234.42 ppb



#18 1,2,4-trimethylbenzene

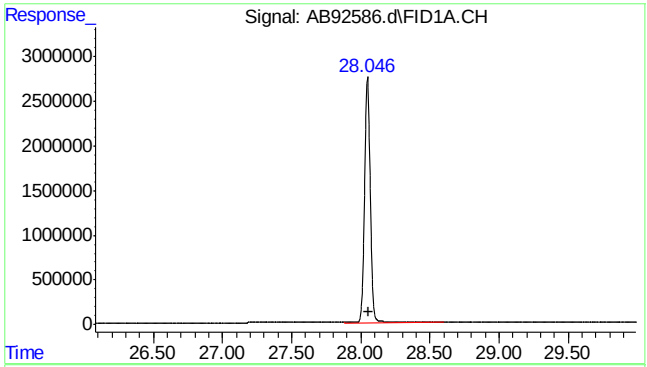
R.T.: 25.106 min
Delta R.T.: -0.002 min
Response: 158156158
Conc: 233.66 ppb



#19 butylcyclohexane

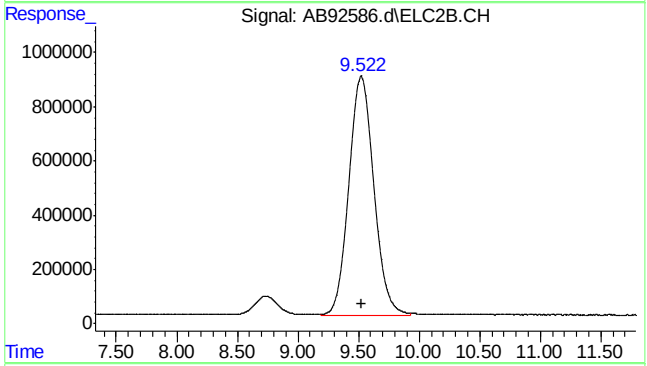
R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 153083117
Conc: 221.66 ppb m

SGS ACCUTEST MC45611



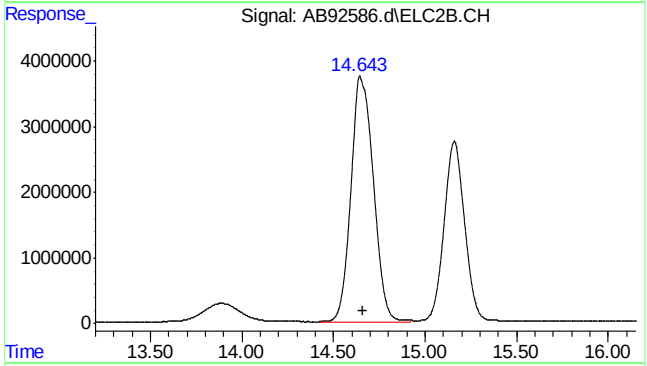
#20 naphthalene

R.T.: 28.047 min
Delta R.T.: -0.004 min
Response: 79292980
Conc: 204.03 ppb



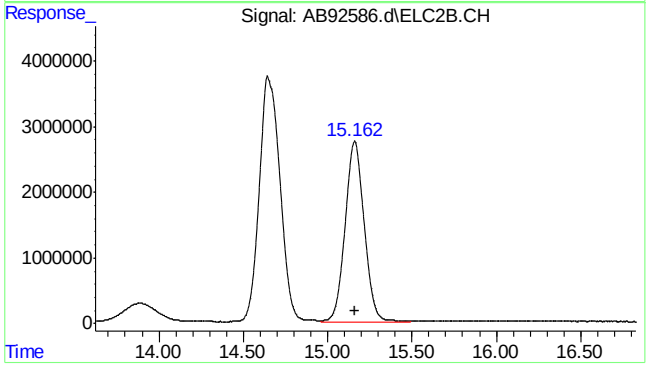
#23 mtbe #2

R.T.: 9.523 min
Delta R.T.: 0.000 min
Response: 126503933
Conc: 246.65 ppb



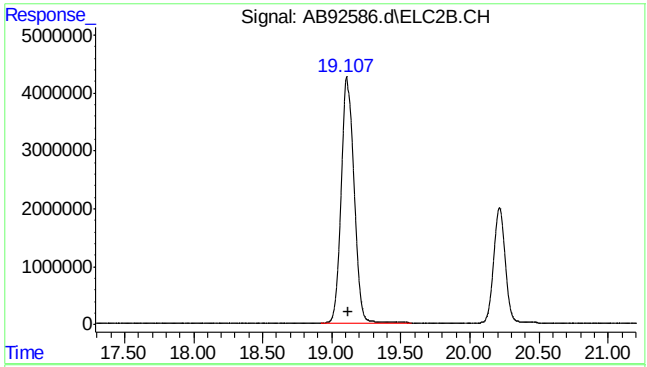
#24 benzene #2

R.T.: 14.641 min
Delta R.T.: -0.021 min
Response: 318344627
Conc: 230.47 ppb



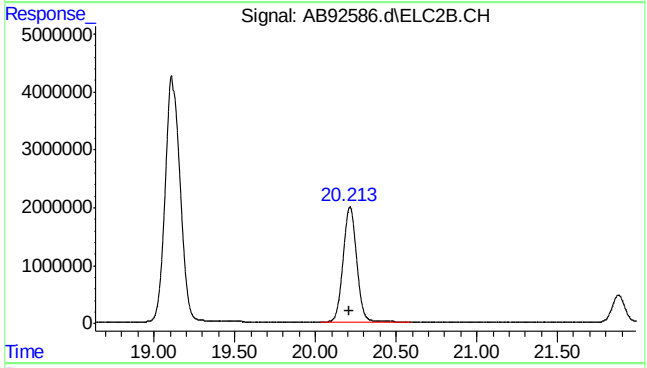
#25 fluorobenzene #2

R.T.: 15.161 min
Delta R.T.: 0.000 min
Response: 215884692
Conc: 247.38 ppb



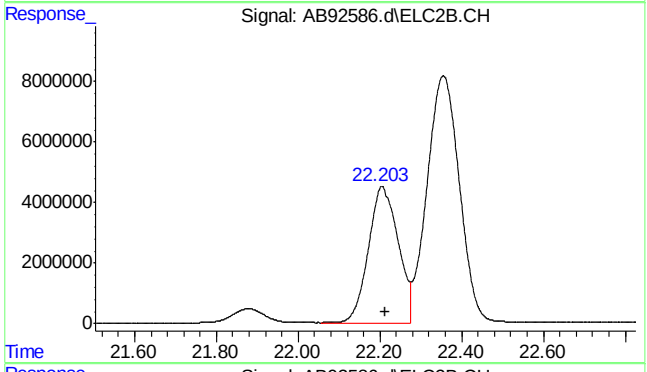
#26 toluene #2

R.T.: 19.106 min
Delta R.T.: -0.014 min
Response: 274838756
Conc: 224.90 ppb



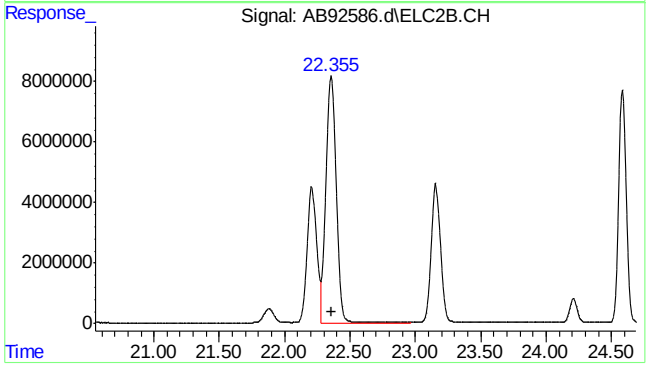
#27 2,3,4-trifluorotoluene #2

R.T.: 20.213 min
Delta R.T.: 0.000 min
Response: 116429742
Conc: 242.32 ppb



#28 ethylbenzene #2

R.T.: 22.205 min
Delta R.T.: -0.008 min
Response: 227655136
Conc: 232.51 ppb



#29 m,p-xylene #2

R.T.: 22.355 min
Delta R.T.: -0.002 min
Response: 451664302
Conc: 379.68 ppb

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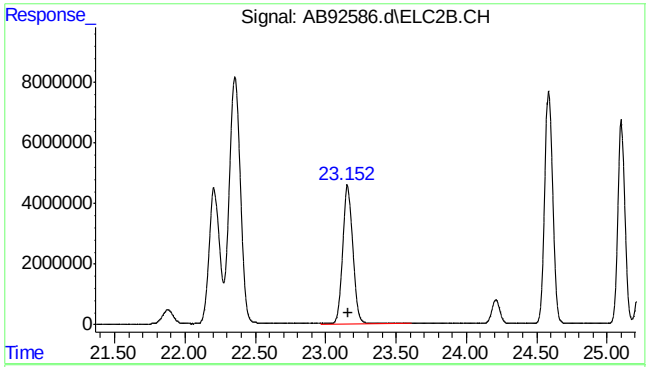
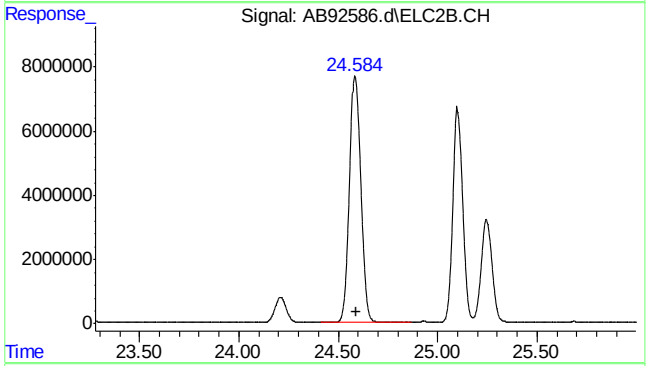


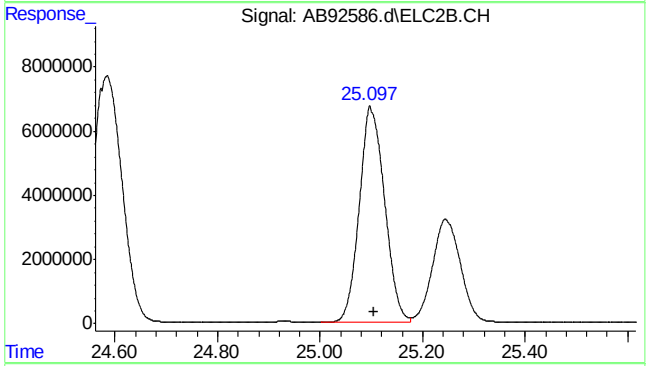
#30 o-xylene #2

R.T.: 23.154 min
Delta R.T.: -0.008 min
Response: 229262939
Conc: 229.59 ppb



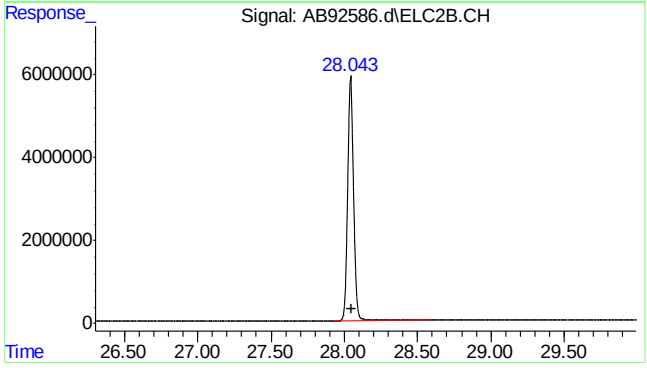
#31 1,3,5-trimethylbenzene #2

R.T.: 24.584 min
Delta R.T.: -0.004 min
Response: 312512766
Conc: 217.89 ppb



#32 1,2,4-trimethylbenzene #2

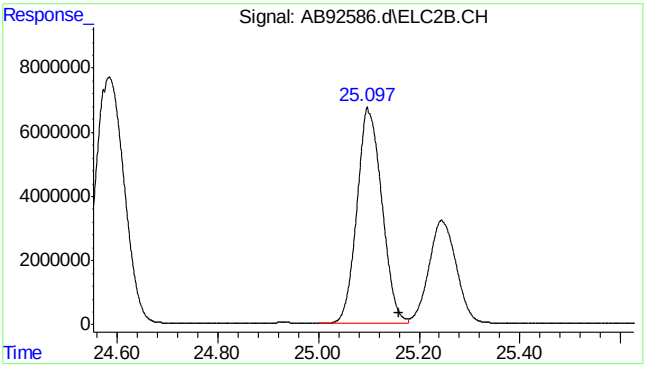
R.T.: 25.099 min
Delta R.T.: -0.006 min
Response: 231516865
Conc: 221.74 ppb



#33 naphthalene #2

R.T.: 28.043 min
Delta R.T.: -0.004 min
Response: 164135600
Conc: 197.83 ppb m

SGS ACCUTEST MC45611



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

R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 231134335
Conc: 220.99 ppb m

7.5.3

7

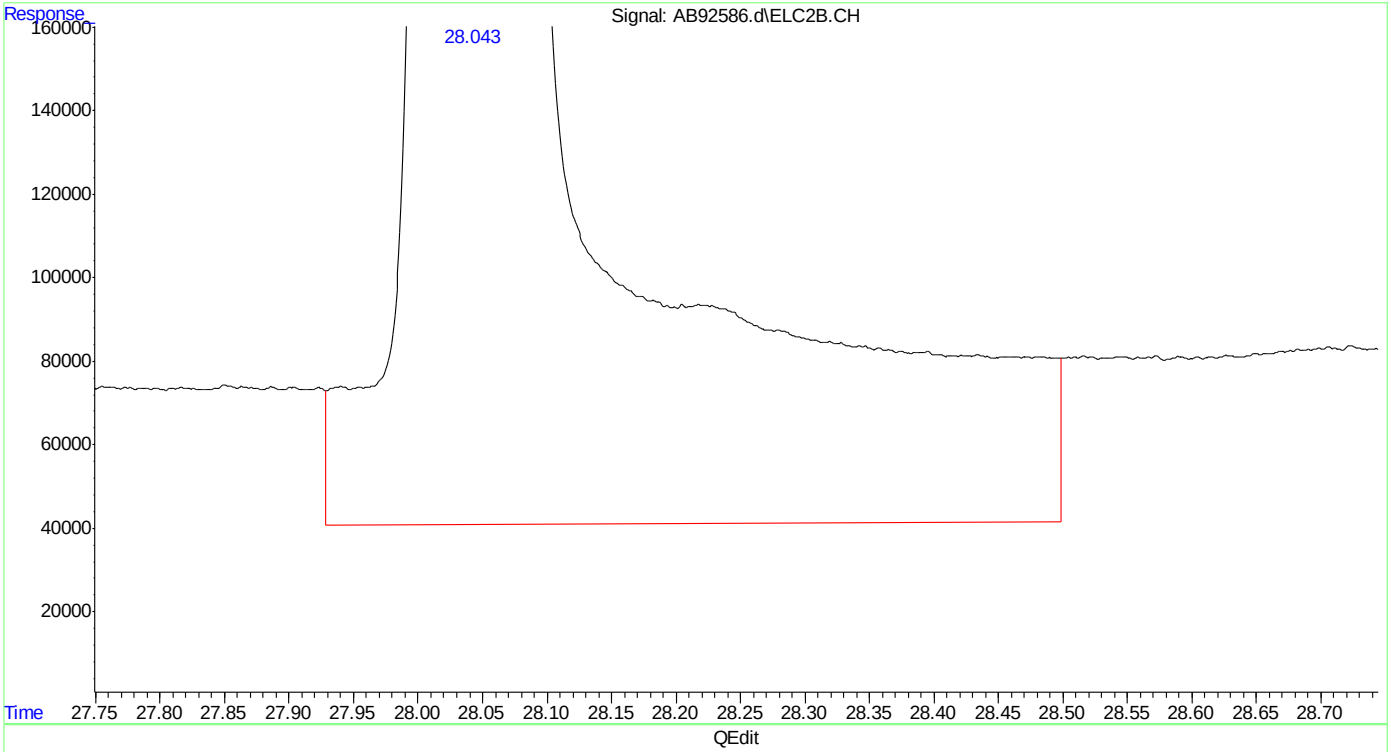
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:41:35
Operator  : haleyn
Sample    : ic5058-250
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:11:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2

28.043min 211.662 ppb

response 175614363

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:13:29 2016

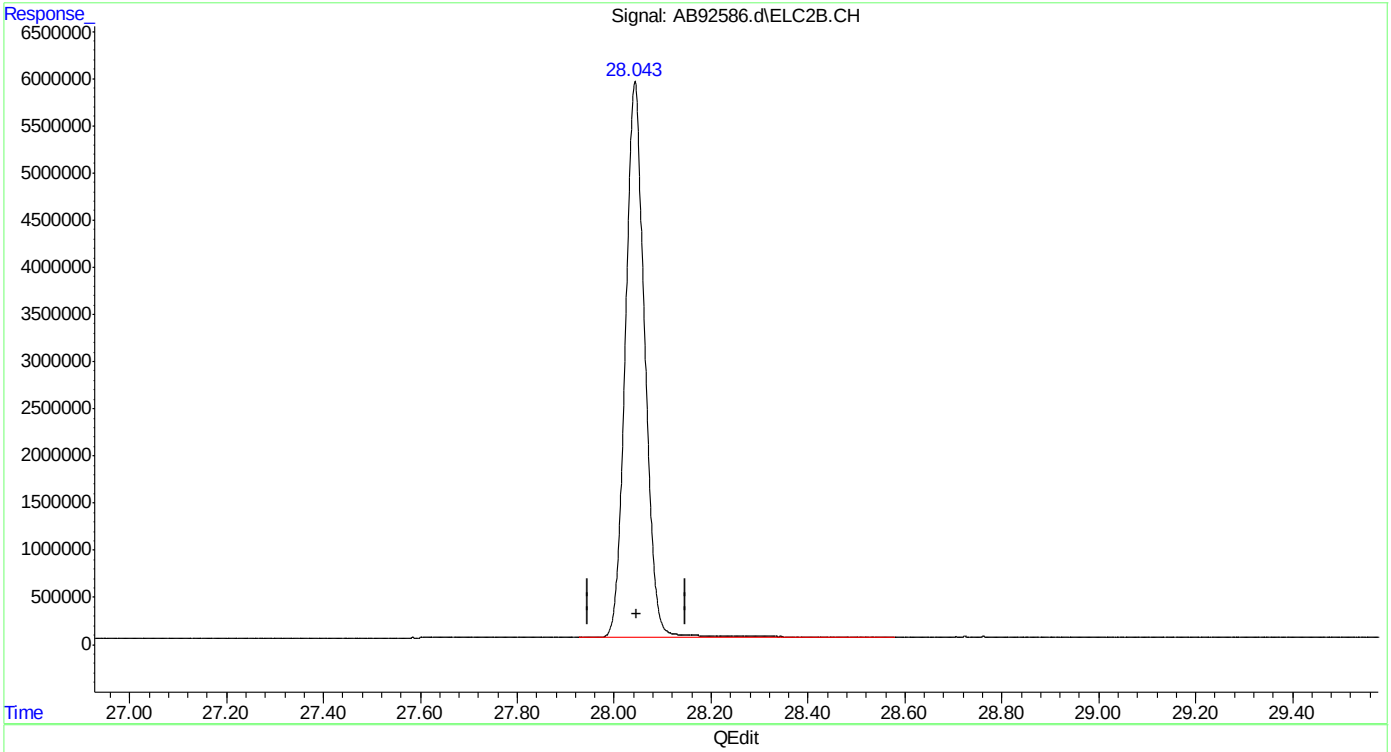
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 09:41:35
Operator  : haleyn
Sample    : ic5058-250
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:11:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2

28.043min 197.827 ppb m

response 164135600

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:13:34 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:10:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.167	42874905	96.209 ppb	
Spiked Amount 50.000		Recovery	= 192.42%	
9) s 2,3,4-trifluorotoluene	20.218	38719163	91.231 ppb	
Spiked Amount 50.000		Recovery	= 182.46%	
25) s fluorobenzene #2	15.162	87953233	100.944 ppb	
Spiked Amount 50.000		Recovery	= 201.89%	
27) s 2,3,4-trifluorotoluen...	20.214	46259176	95.565 ppb	m
Spiked Amount 50.000		Recovery	= 191.13%	
Target Compounds				
1) h rt5.5-7	6.370	33420619	86.690 ppb	m
2) h rt7/10	8.710	38500243	87.399 ppb	m
3) mtbe	9.524	20798394	94.064 ppb	
4) h rt10/13	13.890	40723060	81.706 ppb	m
5) benzene	14.665	52977749	95.426 ppb	
8) toluene	19.122	57912641	94.743 ppb	
11) h rt20/25	21.900	55977584	89.473 ppb	m
13) ethylbenzene	22.216	61308787	94.467 ppb	
14) m,p-xylene	22.360	126492488	186.464 ppb	
15) o-xylene	23.164	63851790	94.181 ppb	
16) h decane	24.230	57632960	89.625 ppb	
17) t 1,3,5-trimethylbenzene	24.591	68200557	92.863 ppb	
18) 1,2,4-trimethylbenzene	25.108	63362367	92.432 ppb	
19) h butylcyclohexane	25.263	60198202	84.984 ppb	m
20) naphthalene	28.051	33356972	83.465 ppb	
23) mtbe #2	9.522	49818196	96.580 ppb	m
24) benzene #2	14.662	137692860	99.623 ppb	
26) toluene #2	19.120	117752936	95.659 ppb	
28) ethylbenzene #2	22.213	97082156	98.984 ppb	
29) m,p-xylene #2	22.357	212950656	175.332 ppb	
30) o-xylene #2	23.162	97755578	97.483 ppb	
31) t 1,3,5-trimethylbenzen...	24.588	137643497	95.198 ppb	
32) 1,2,4-trimethylbenzen...	25.105	100143723	95.140 ppb	
33) naphthalene #2	28.047	72366482	85.047 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	100268044	95.080 ppb	m

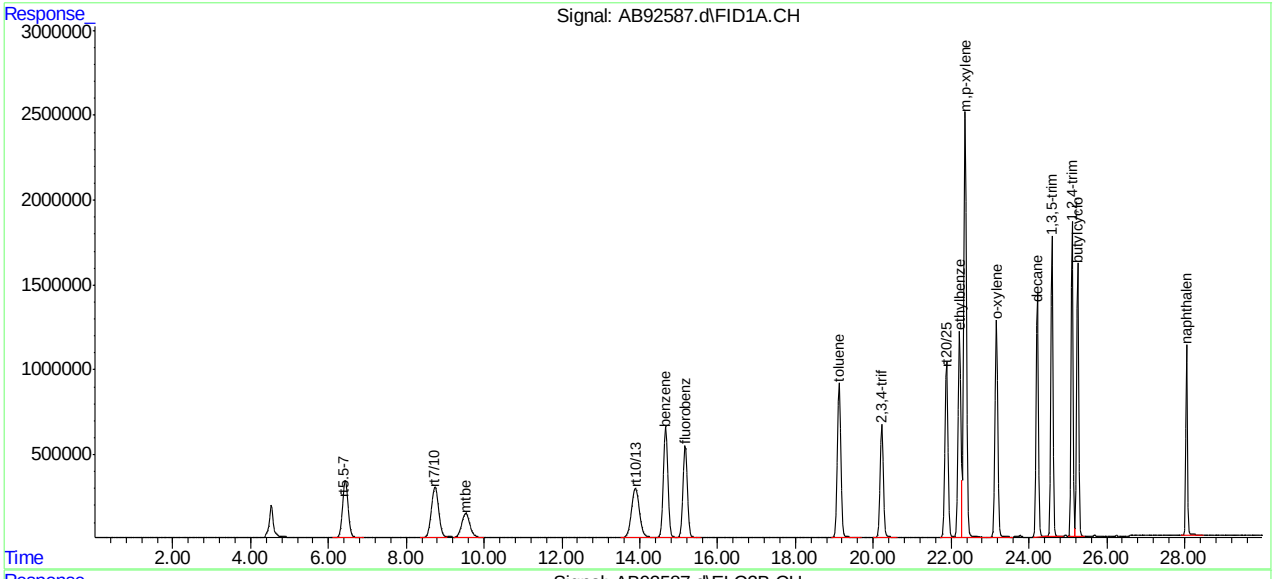
(f)=RT Delta > 1/2 Window (m)=manual int.

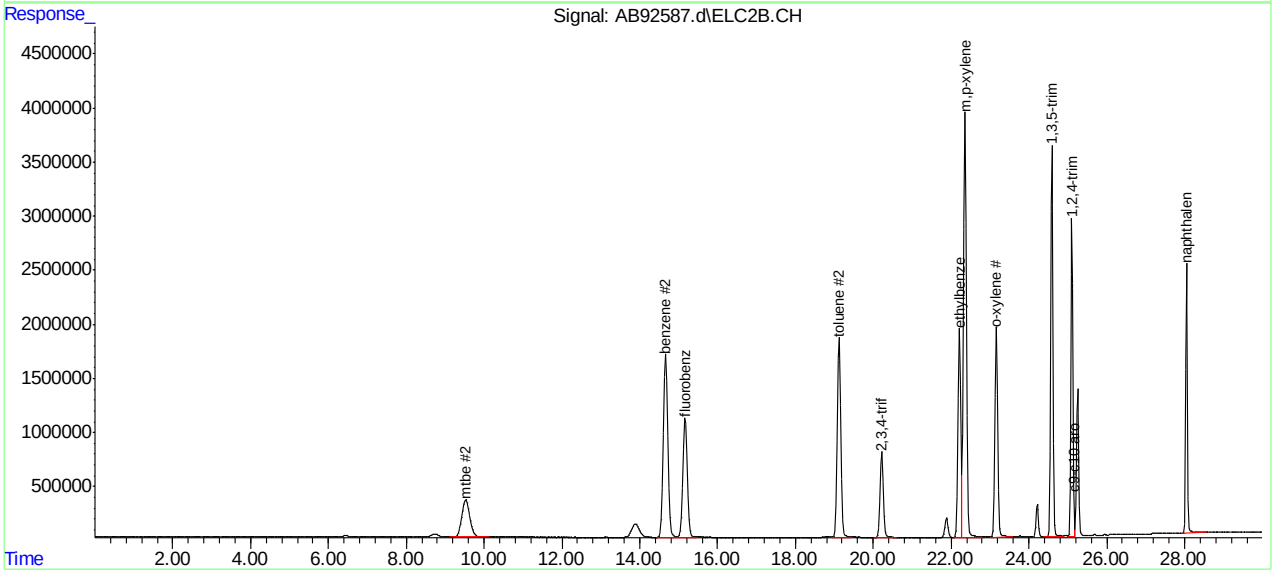
Quantitation Report (QT Reviewed)

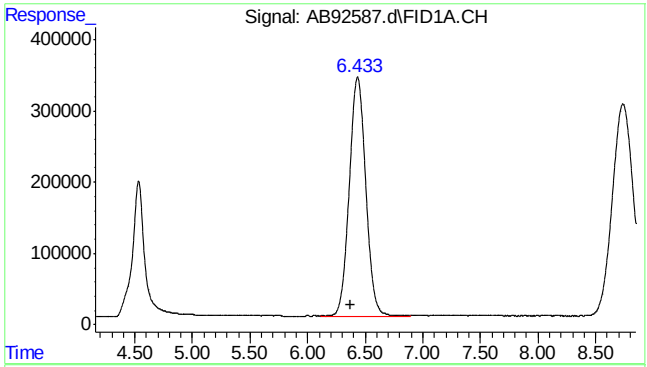
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:10:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

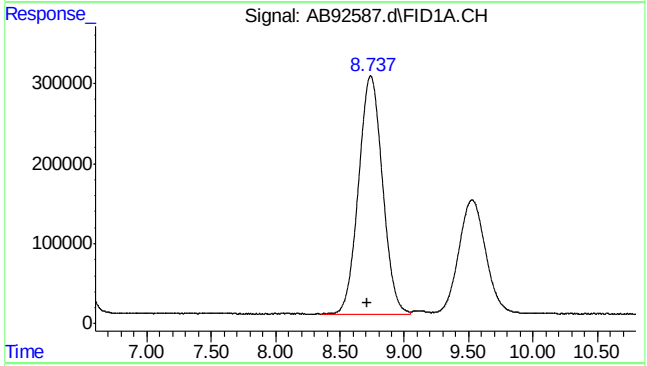






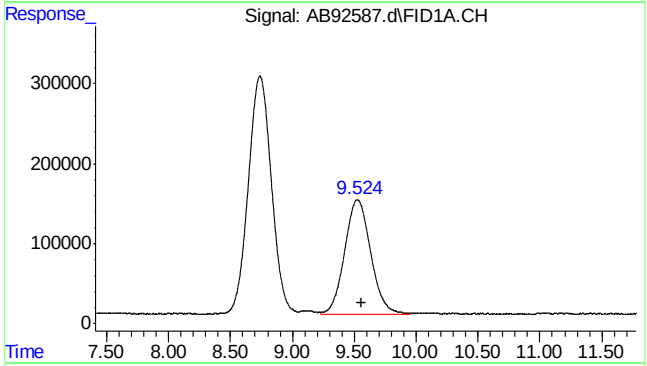
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 33420619
Conc: 86.69 ppb m



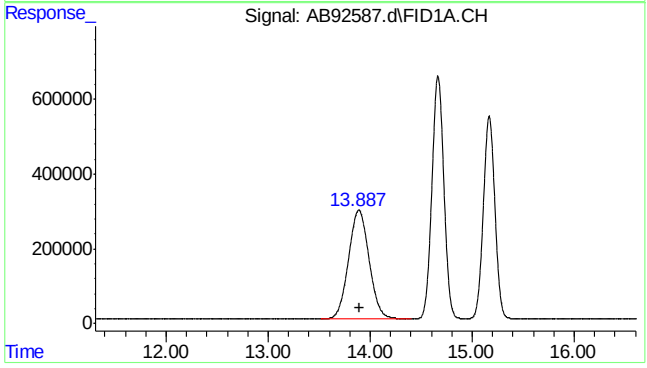
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 38500243
Conc: 87.40 ppb m



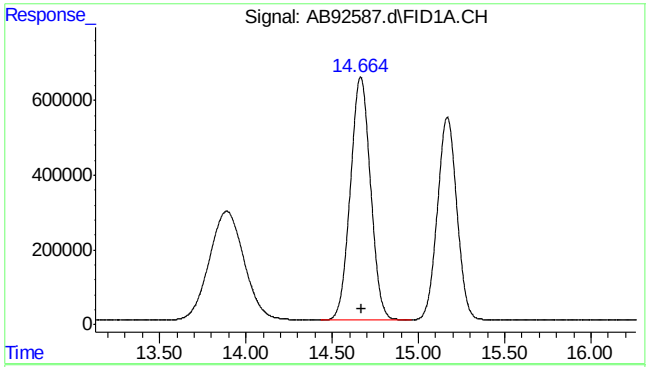
#3 mtbe

R.T.: 9.524 min
Delta R.T.: -0.041 min
Response: 20798394
Conc: 94.06 ppb



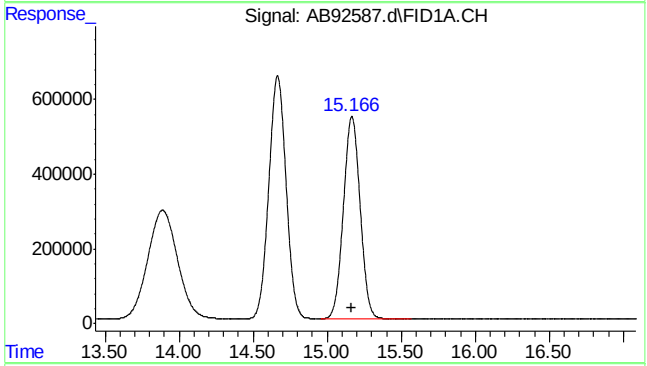
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 40723060
Conc: 81.71 ppb m



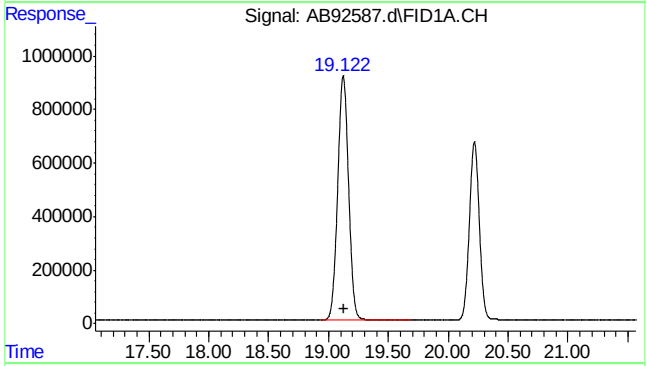
#5 benzene

R.T.: 14.665 min
Delta R.T.: -0.009 min
Response: 52977749
Conc: 95.43 ppb



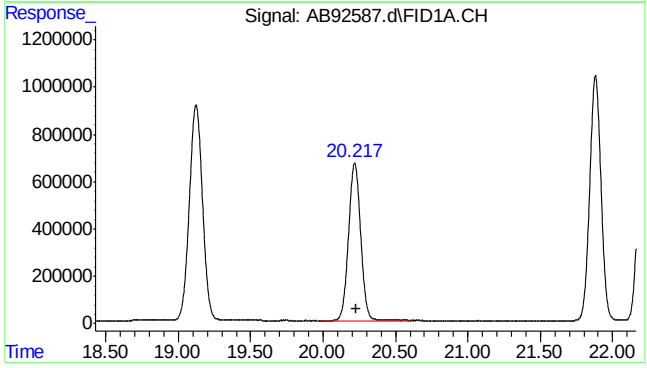
#6 fluorobenzene

R.T.: 15.167 min
Delta R.T.: -0.002 min
Response: 42874905
Conc: 96.21 ppb



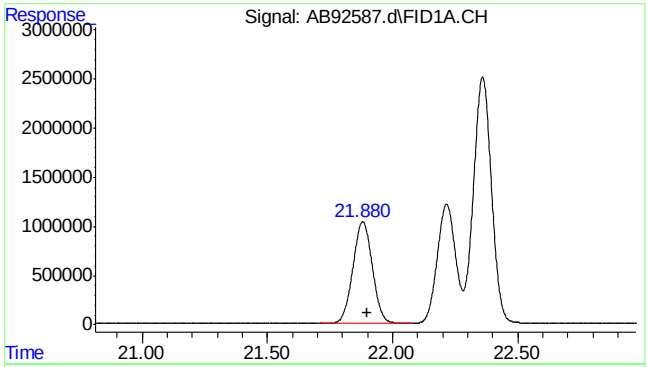
#8 toluene

R.T.: 19.122 min
Delta R.T.: -0.006 min
Response: 57912641
Conc: 94.74 ppb



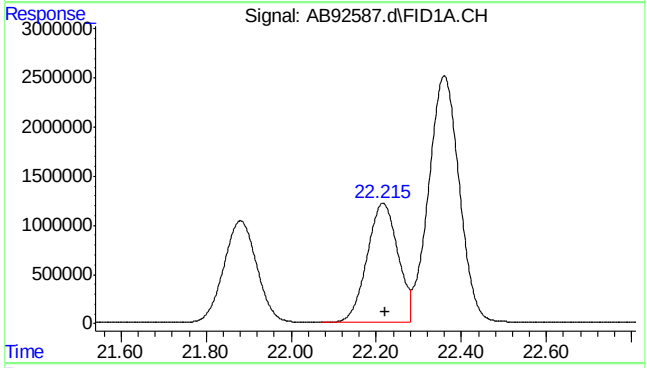
#9 2,3,4-trifluorotoluene

R.T.: 20.218 min
Delta R.T.: -0.014 min
Response: 38719163
Conc: 91.23 ppb



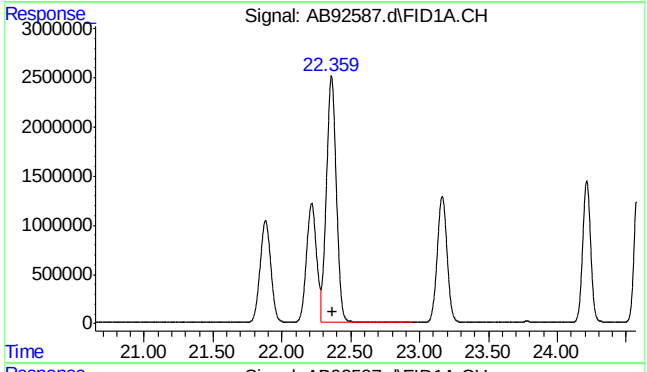
#11 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:  55977584
      Conc:  89.47 ppb m
```



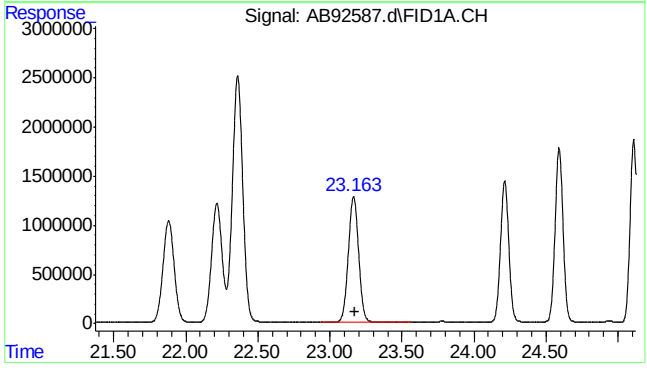
#13 ethylbenzene

```
      R.T.:   22.216 min
Delta R.T.:   -0.005 min
  Response:  61308787
      Conc:  94.47 ppb
```



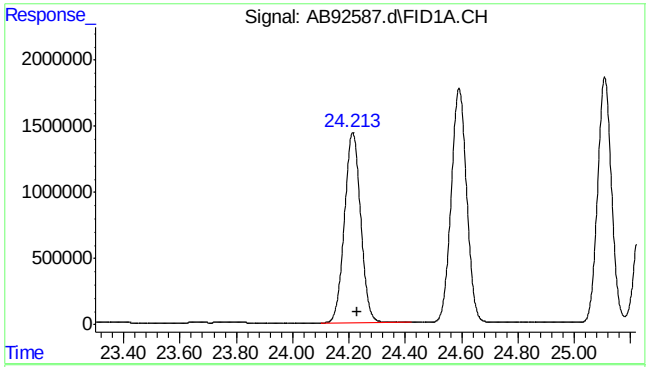
#14 m,p-xylene

```
      R.T.:   22.360 min
Delta R.T.:   -0.010 min
  Response: 126492488
      Conc: 186.46 ppb
```



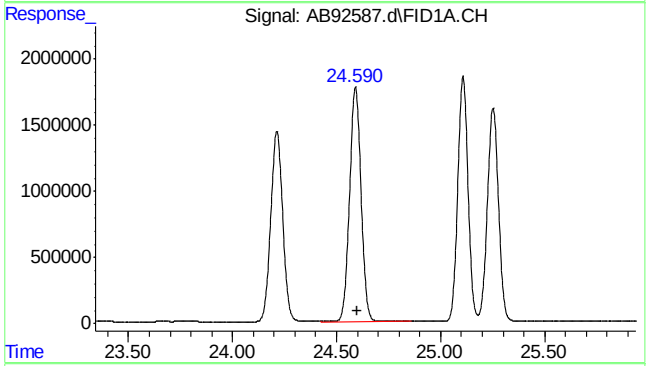
#15 o-xylene

```
      R.T.:   23.164 min
Delta R.T.:   -0.011 min
  Response:  63851790
      Conc:  94.18 ppb
```



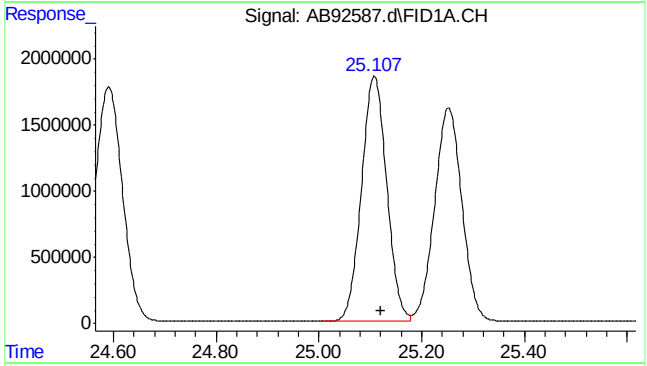
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 57632960
Conc: 89.63 ppb



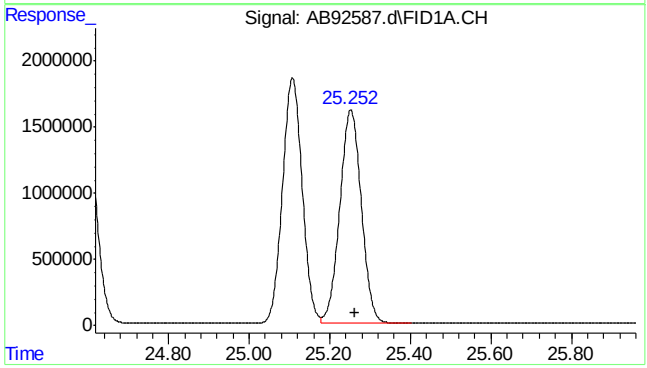
#17 1,3,5-trimethylbenzene

R.T.: 24.591 min
Delta R.T.: -0.010 min
Response: 68200557
Conc: 92.86 ppb



#18 1,2,4-trimethylbenzene

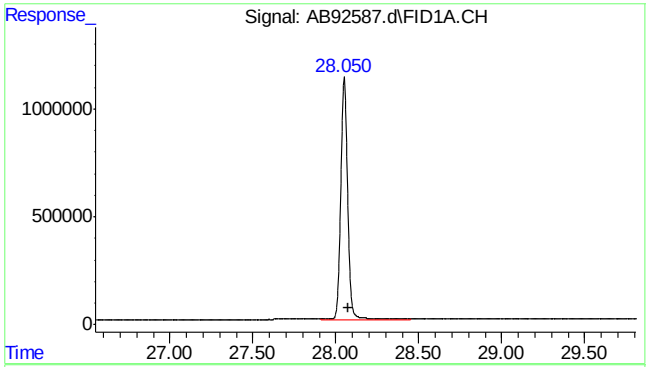
R.T.: 25.108 min
Delta R.T.: -0.013 min
Response: 63362367
Conc: 92.43 ppb



#19 butylcyclohexane

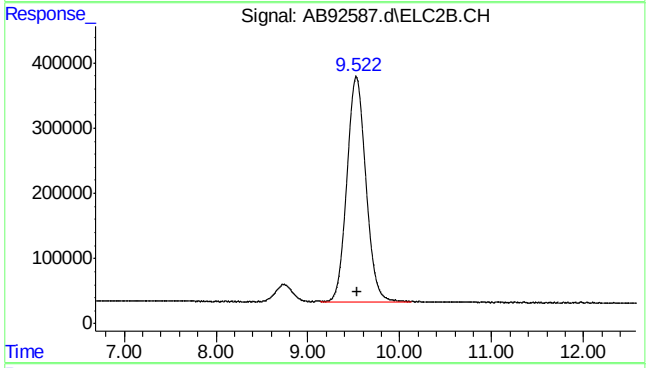
R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 60198202
Conc: 84.98 ppb m

SGS ACCUTEST MC45611



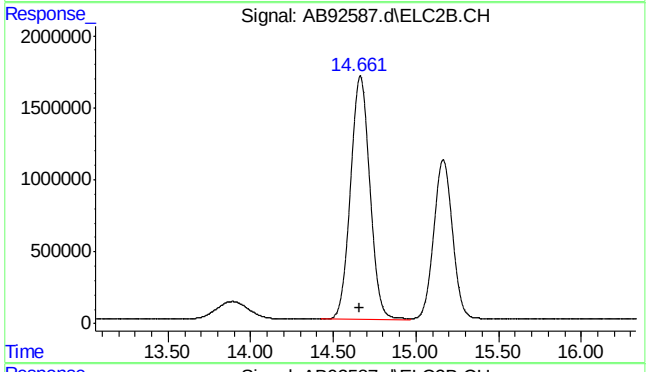
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: -0.026 min
Response: 33356972
Conc: 83.46 ppb



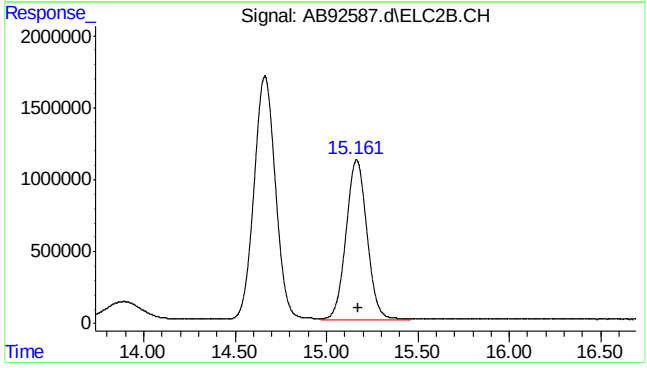
#23 mtbe #2

R.T.: 9.522 min
Delta R.T.: -0.018 min
Response: 49818196
Conc: 96.58 ppb m



#24 benzene #2

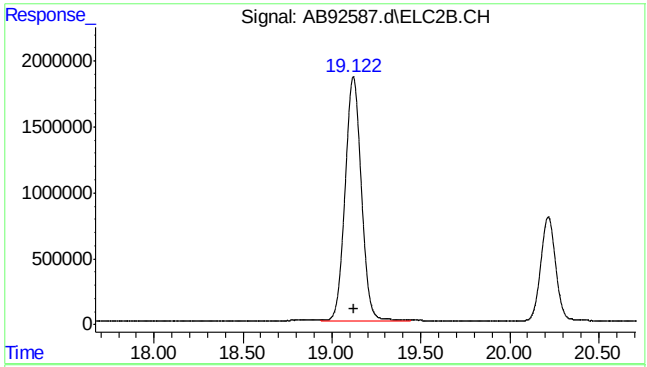
R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 137692860
Conc: 99.62 ppb



#25 fluorobenzene #2

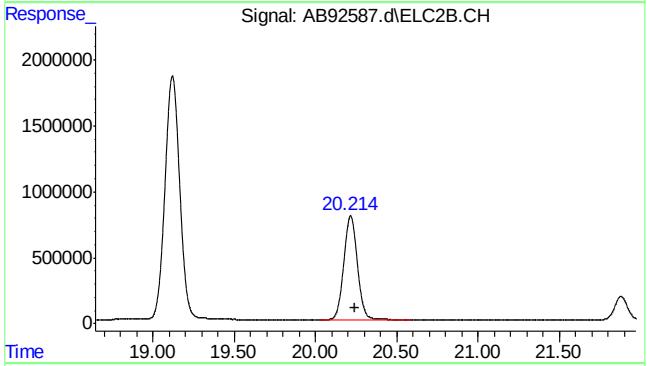
R.T.: 15.162 min
Delta R.T.: -0.012 min
Response: 87953233
Conc: 100.94 ppb

SGS ACCUTEST MC45611



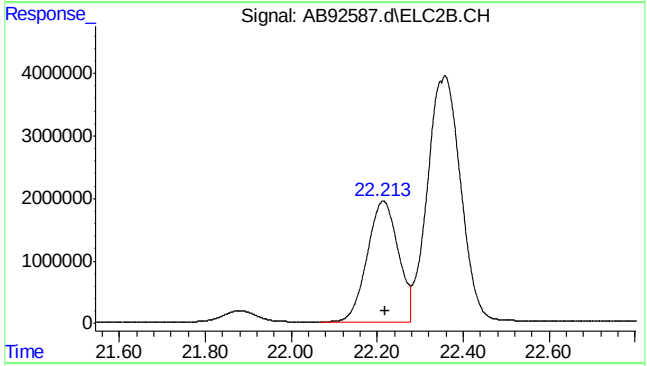
#26 toluene #2

R.T.: 19.120 min
Delta R.T.: -0.006 min
Response: 117752936
Conc: 95.66 ppb



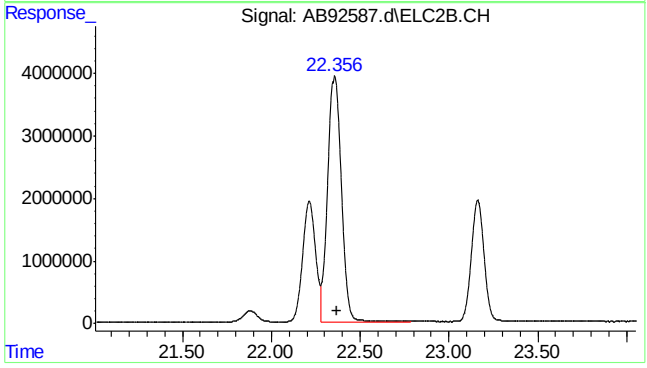
#27 2,3,4-trifluorotoluene #2

R.T.: 20.214 min
Delta R.T.: -0.027 min
Response: 46259176
Conc: 95.56 ppb m



#28 ethylbenzene #2

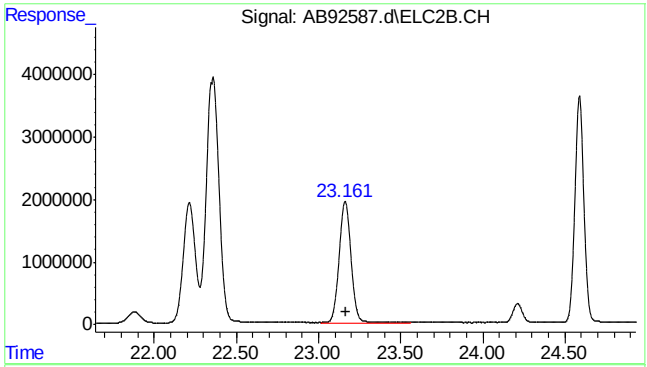
R.T.: 22.213 min
Delta R.T.: -0.006 min
Response: 97082156
Conc: 98.98 ppb



#29 m,p-xylene #2

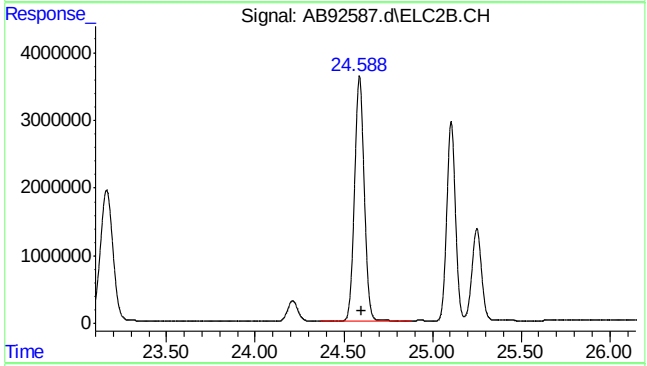
R.T.: 22.357 min
Delta R.T.: -0.012 min
Response: 212950656
Conc: 175.33 ppb

SGS ACCUTEST MC45611



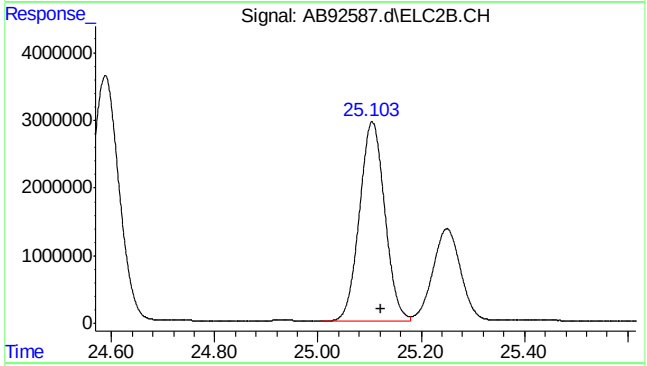
#30 o-xylene #2

R.T.: 23.162 min
Delta R.T.: -0.008 min
Response: 97755578
Conc: 97.48 ppb



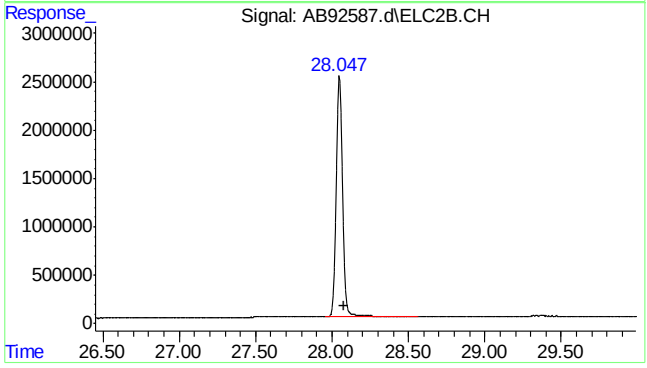
#31 1,3,5-trimethylbenzene #2

R.T.: 24.588 min
Delta R.T.: -0.011 min
Response: 137643497
Conc: 95.20 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.105 min
Delta R.T.: -0.016 min
Response: 100143723
Conc: 95.14 ppb



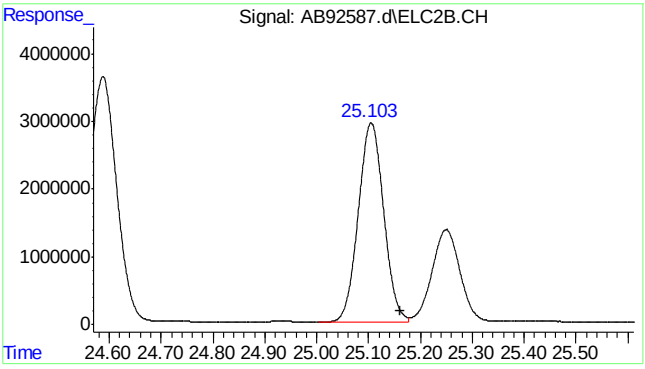
#33 naphthalene #2

R.T.: 28.047 min
Delta R.T.: -0.028 min
Response: 72366482
Conc: 85.05 ppb m

7.5.4

7

SGS ACCUTEST MC45611




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

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 100268044
      Conc:  95.08 ppb m
```

7.5.4

7

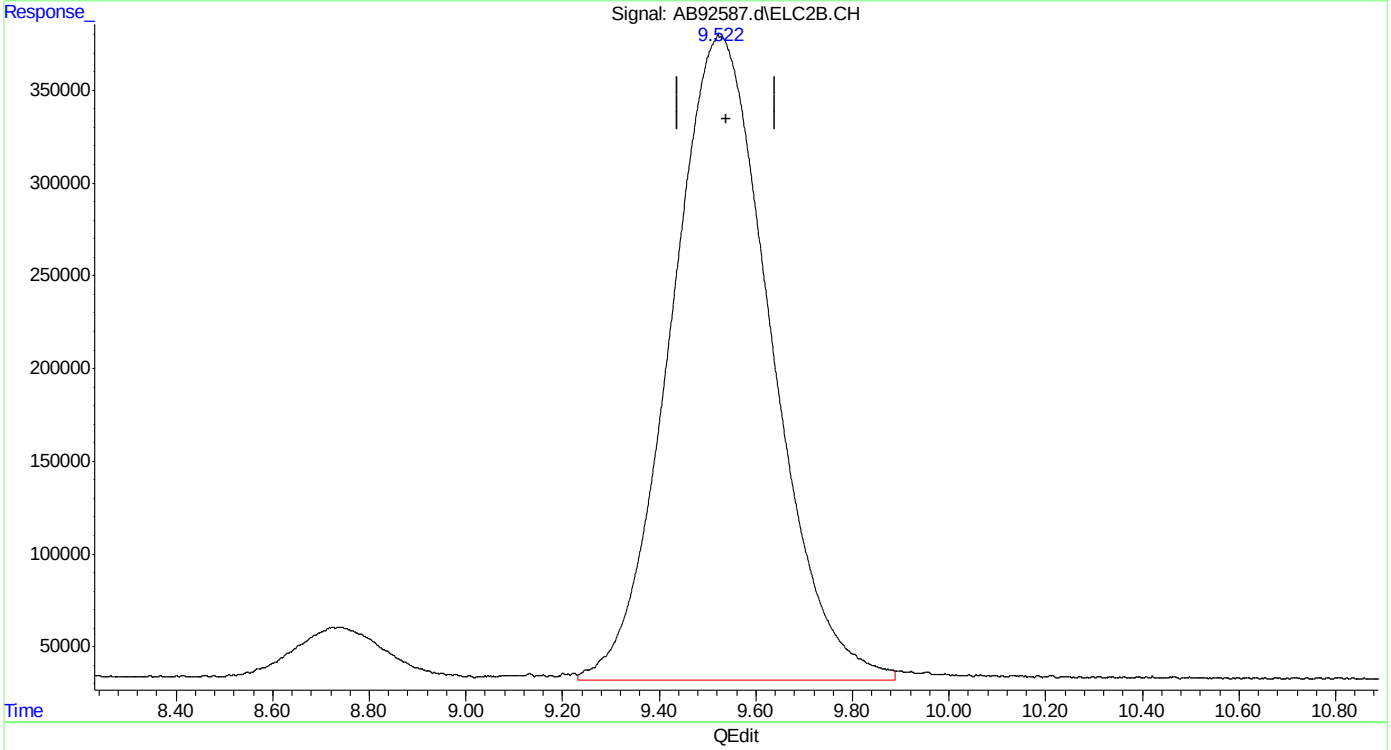
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.522min 96.975 ppb
response 50022247

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:09:01 2016

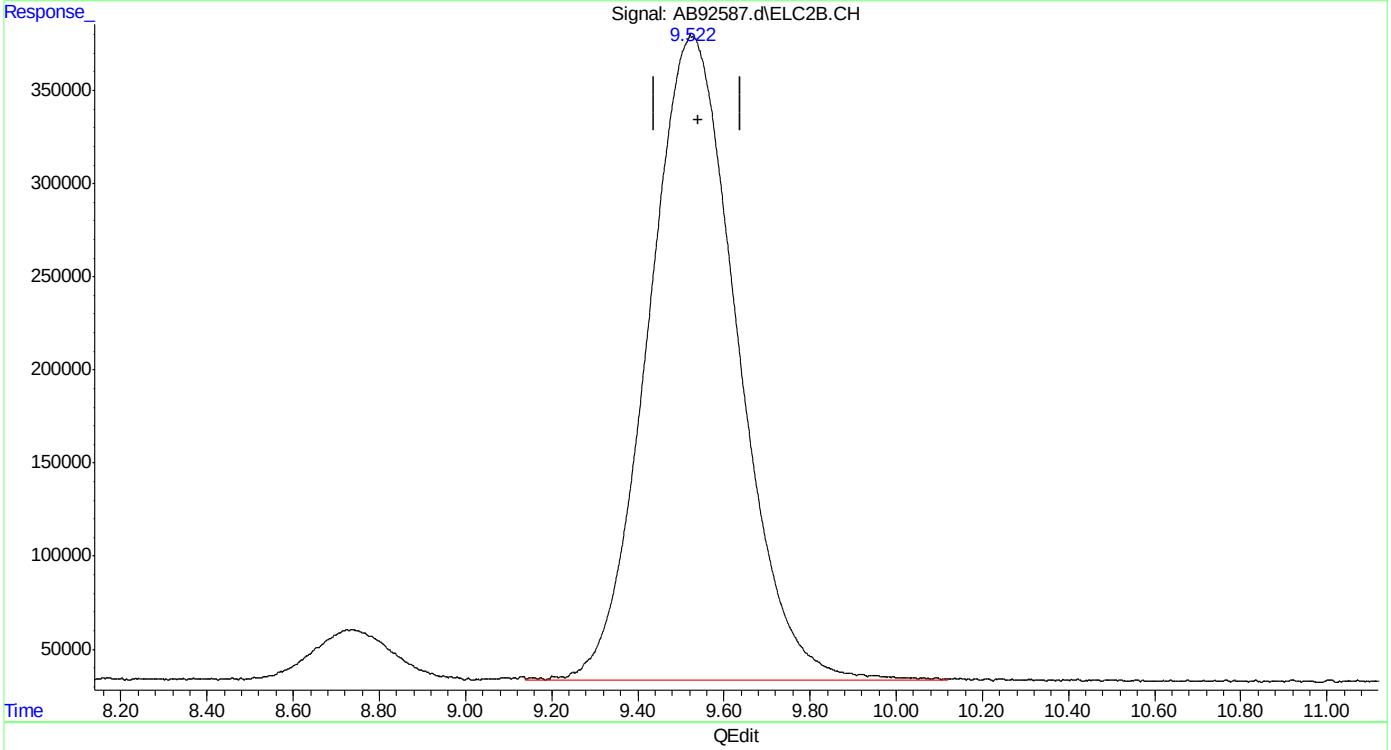
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.522min 96.580 ppb m
response 49818196

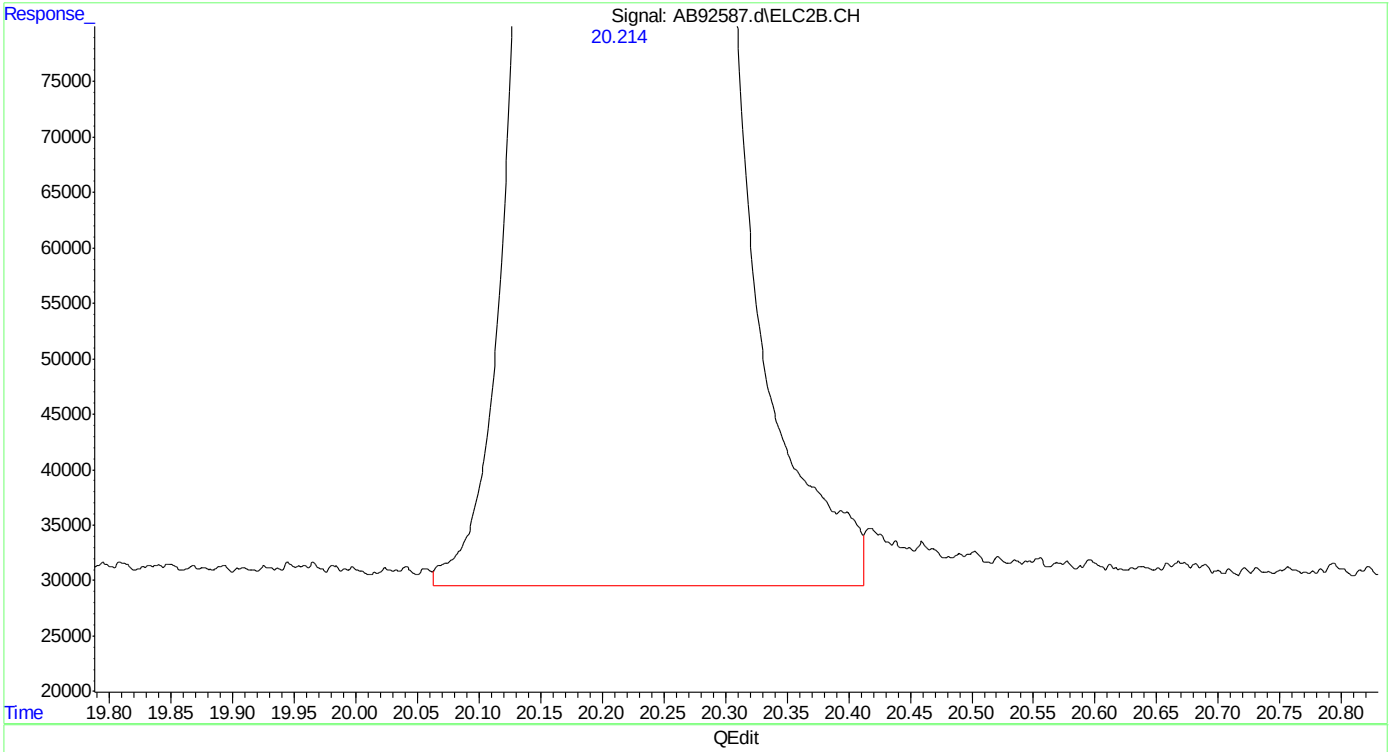
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
20.215min 94.913 ppb
response 45943479

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:10:10 2016

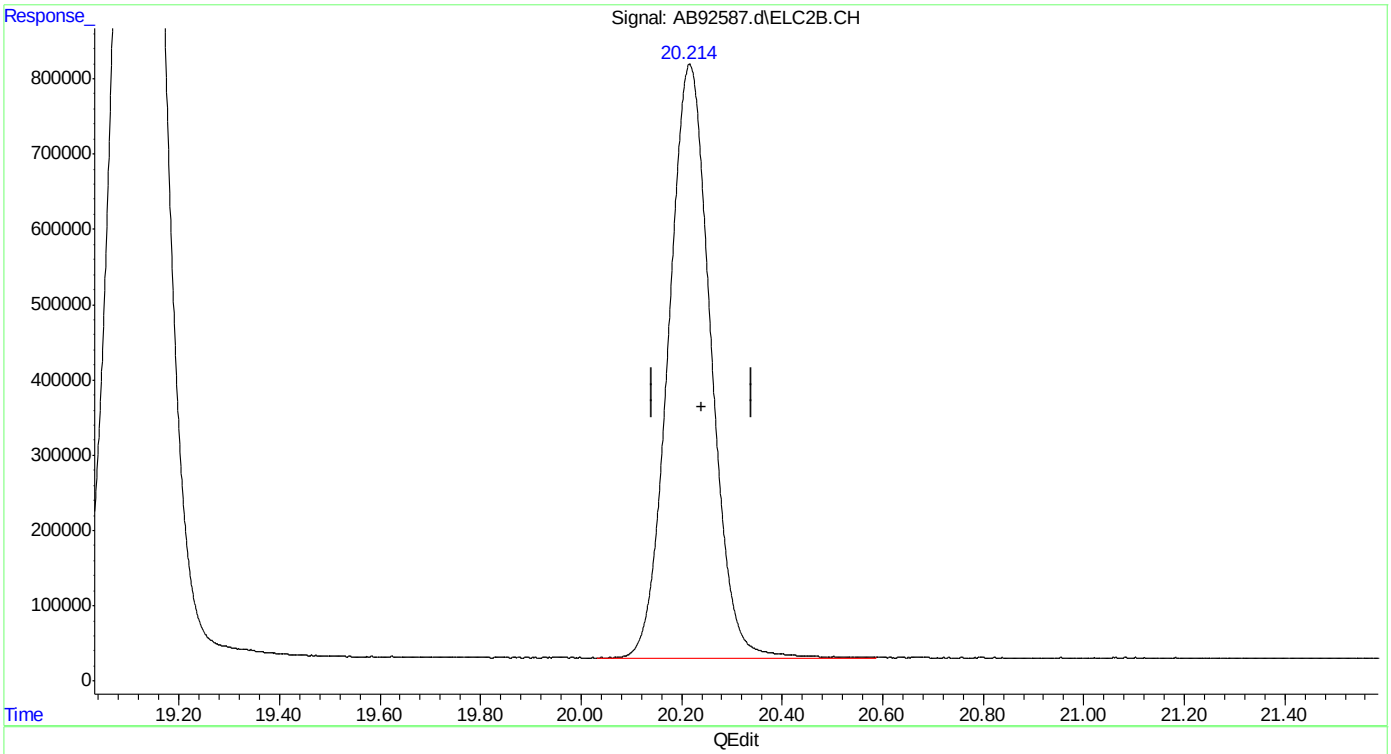
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
20.214min 95.565 ppb m
response 46259176

(+) = Expected Retention Time

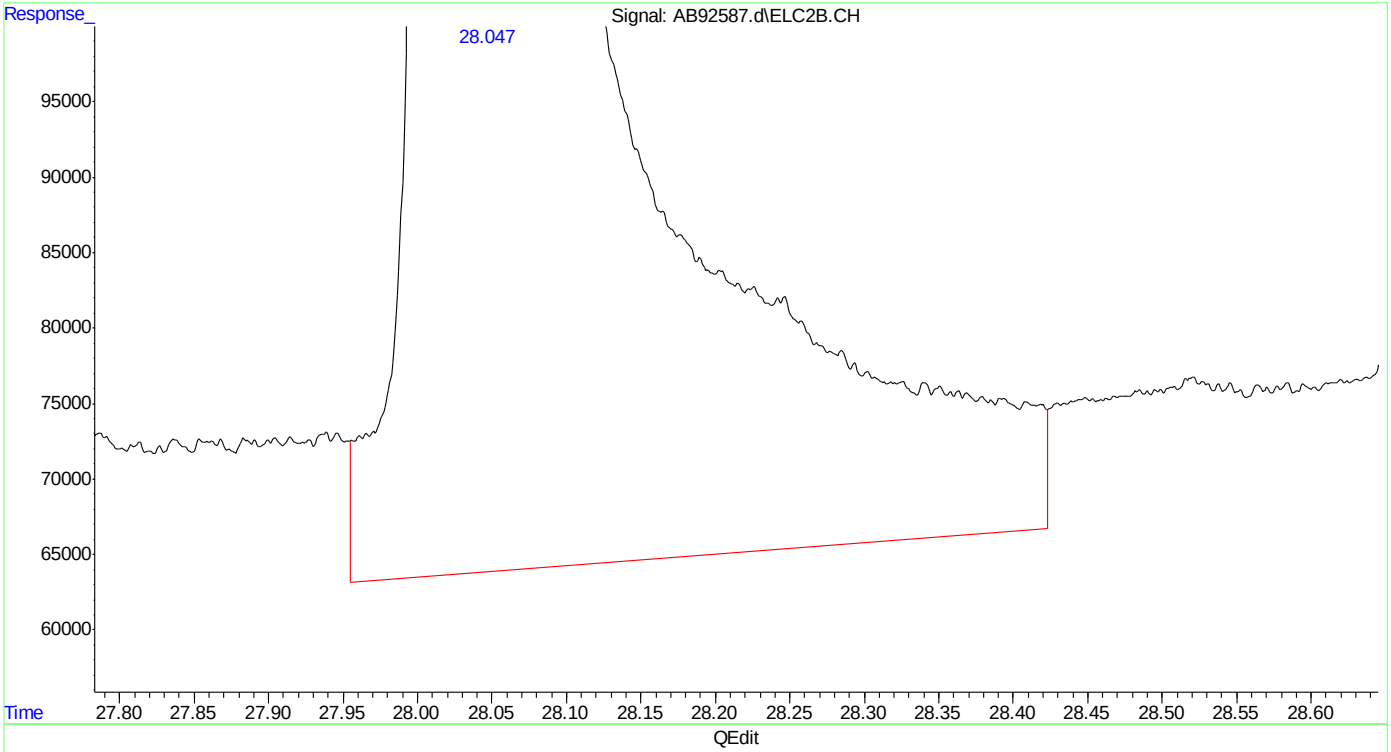
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 10:18:42
Operator  : haleyn
Sample    : ic5058-100
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2

28.048min 87.471 ppb

response 74428937

(+) = Expected Retention Time

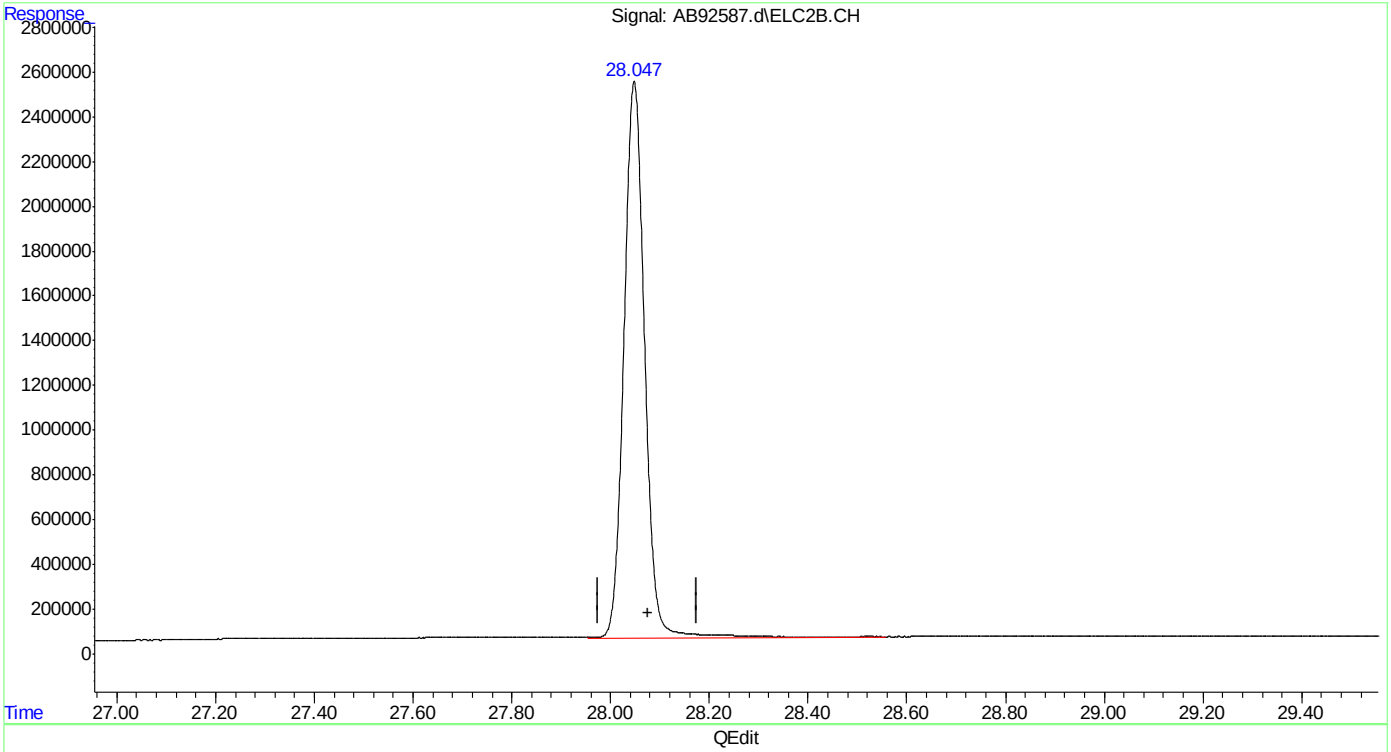
ab160112vphmaster.M Tue Jan 12 14:10:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.047min 85.047 ppb m
response 72366482

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:10:36 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:32:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.165	22113709	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	20.217	20310808	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
25) s fluorobenzene #2	15.162	44830746	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	20.215	23579401	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	6.370	17341856	50.022	ppb	m
2) h rt7/10	8.710	19931281	50.032	ppb	m
3) mtbe	9.525	10910216	50.000	ppb	
4) h rt10/13	13.890	22107974	50.003	ppb	m
5) benzene	14.662	27232844	50.000	ppb	
8) toluene	19.121	30034928	50.000	ppb	
11) h rt20/25	21.900	28560611	50.004	ppb	m
13) ethylbenzene	22.215	31877435	50.000	ppb	
14) m,p-xylene	22.359	65853459	100.000	ppb	
15) o-xylene	23.163	33195129	50.000	ppb	
16) h decane	24.230	29380393	50.000	ppb	
17) t 1,3,5-trimethylbenzene	24.590	35683239	50.000	ppb	
18) 1,2,4-trimethylbenzene	25.108	33124851	50.000	ppb	
19) h butylcyclohexane	25.263	30974569	50.024	ppb	m
20) naphthalene	28.051	17061887	50.025	ppb	m
23) mtbe #2	9.531	25843788	50.076	ppb	m
24) benzene #2	14.662	70338009	50.000	ppb	
26) toluene #2	19.118	60419568	50.000	ppb	
28) ethylbenzene #2	22.213	49929639	50.000	ppb	
29) m,p-xylene #2	22.356	120749462	100.000	ppb	
30) o-xylene #2	23.161	50672944	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	24.588	73024638	50.000	ppb	
32) 1,2,4-trimethylbenzen...	25.105	52288916	50.000	ppb	
33) naphthalene #2	28.049	37670302	50.002	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	52491156	49.995	ppb	m

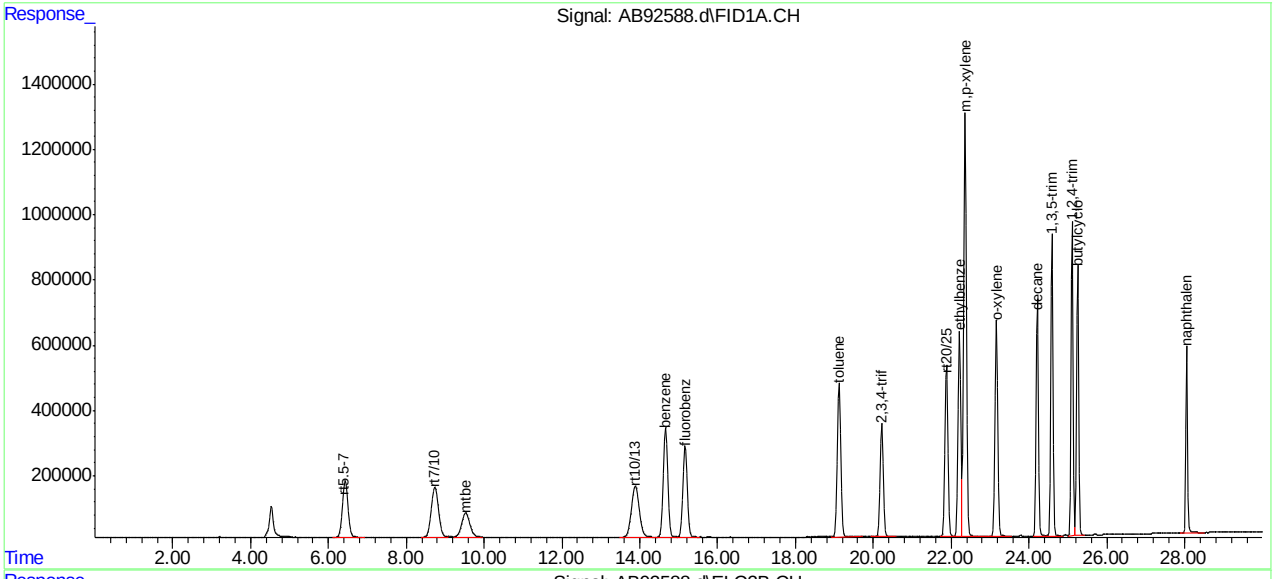
(f)=RT Delta > 1/2 Window (m)=manual int.

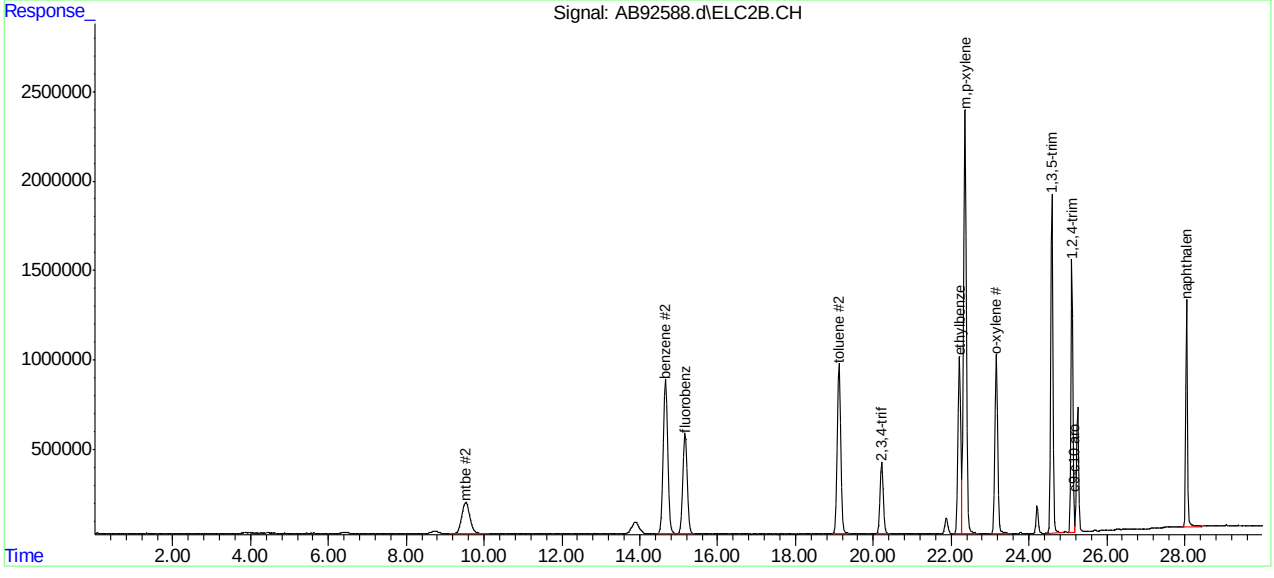
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:32:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





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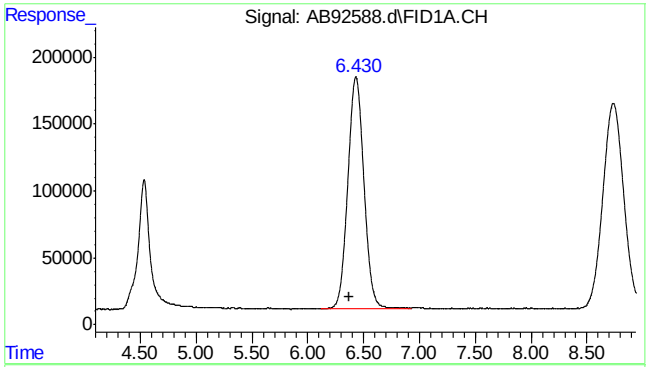
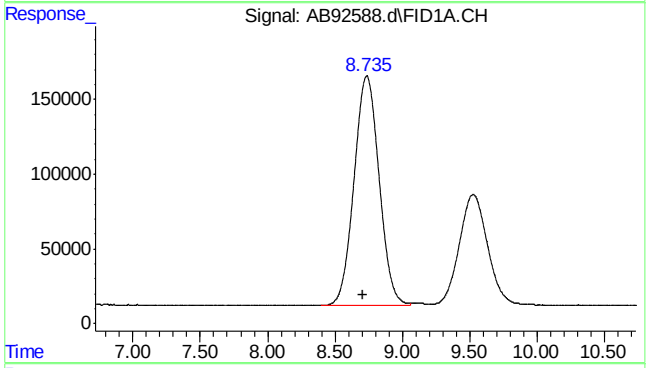


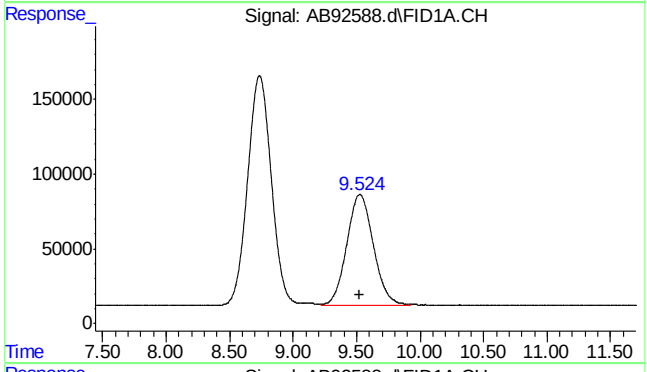
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 17341856
Conc: 50.02 ppb m



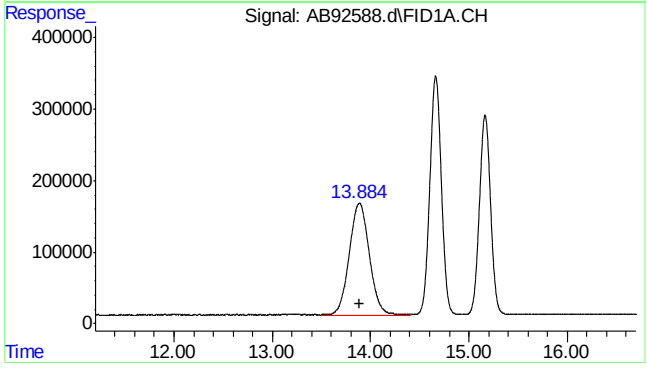
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 19931281
Conc: 50.03 ppb m



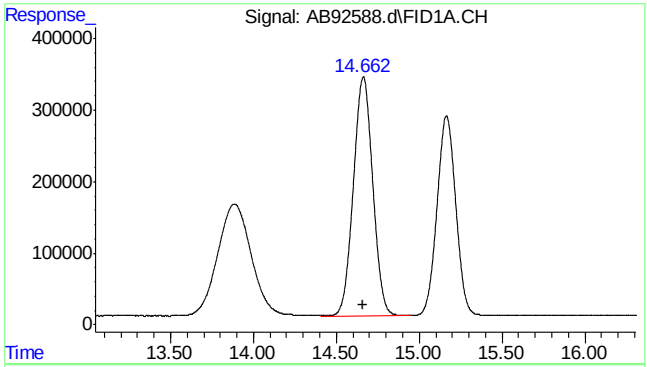
#3 mtbe

R.T.: 9.525 min
Delta R.T.: 0.000 min
Response: 10910216
Conc: 50.00 ppb



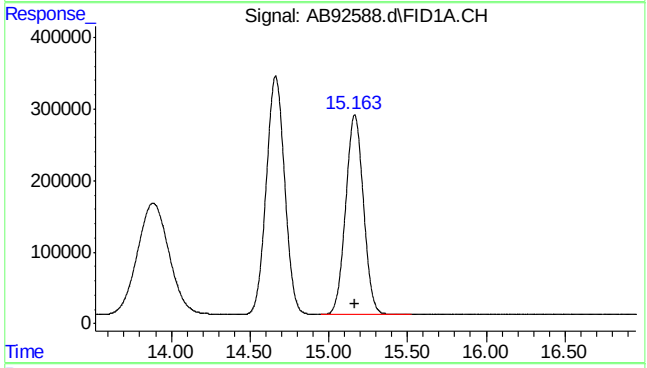
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 22107974
Conc: 50.00 ppb m



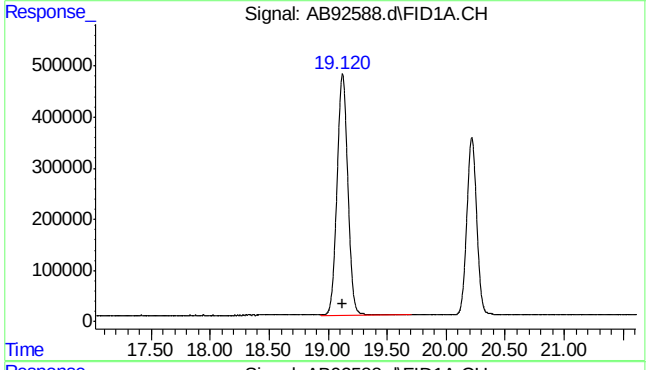
#5 benzene

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 27232844
Conc: 50.00 ppb



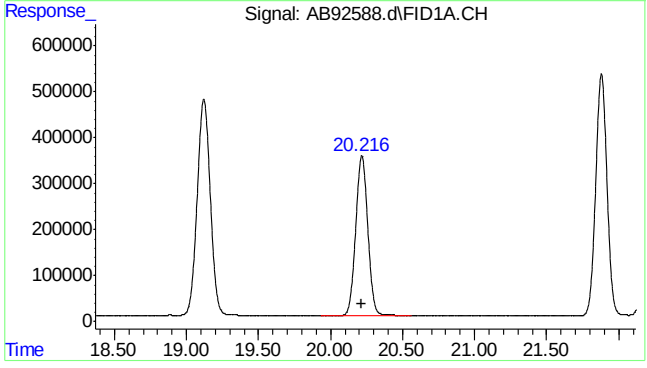
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: 0.000 min
Response: 22113709
Conc: 50.00 ppb



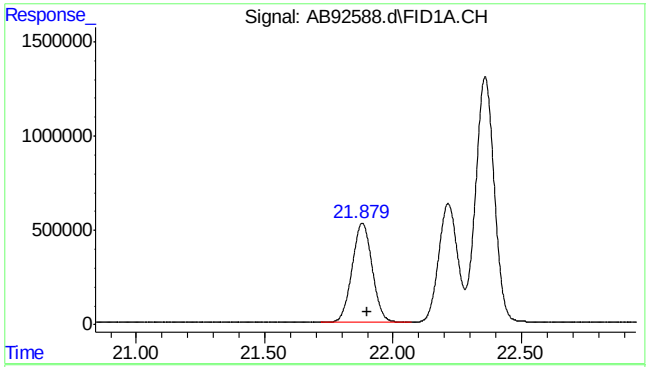
#8 toluene

R.T.: 19.121 min
Delta R.T.: 0.000 min
Response: 30034928
Conc: 50.00 ppb



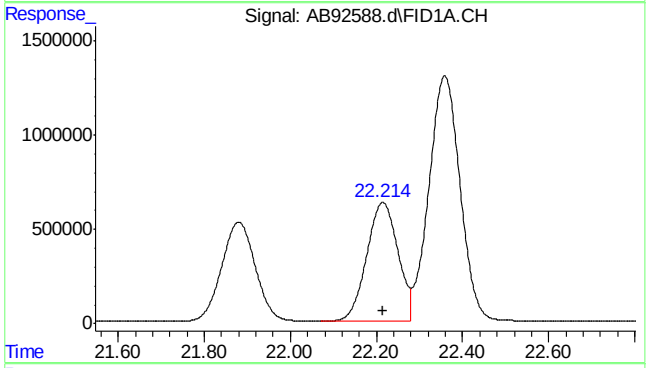
#9 2,3,4-trifluorotoluene

R.T.: 20.217 min
Delta R.T.: 0.000 min
Response: 20310808
Conc: 50.00 ppb



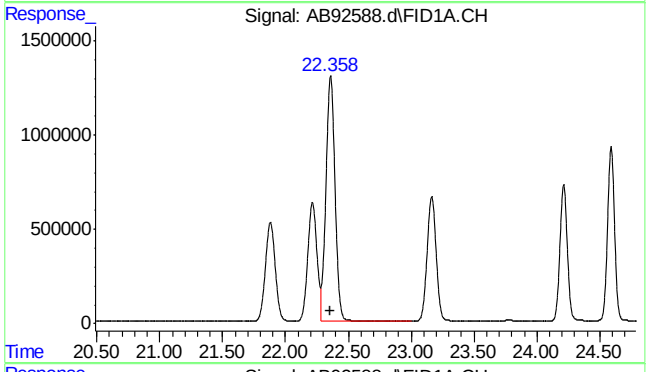
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 28560611
Conc: 50.00 ppb m



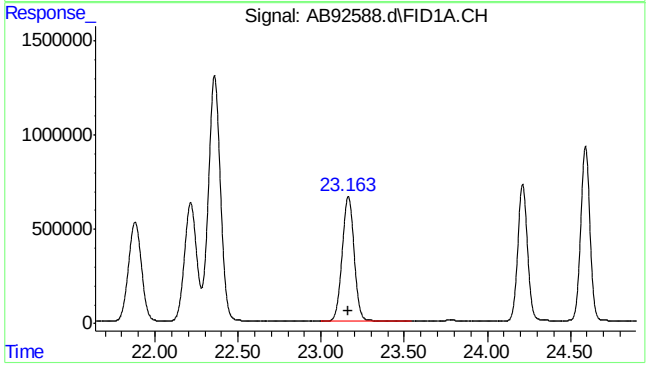
#13 ethylbenzene

R.T.: 22.215 min
Delta R.T.: 0.000 min
Response: 31877435
Conc: 50.00 ppb



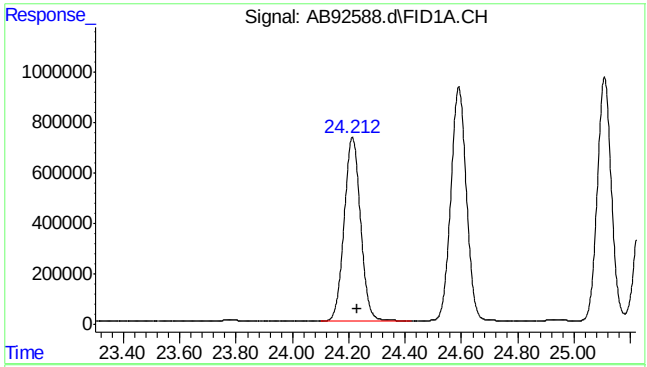
#14 m,p-xylene

R.T.: 22.359 min
Delta R.T.: 0.000 min
Response: 65853459
Conc: 100.00 ppb



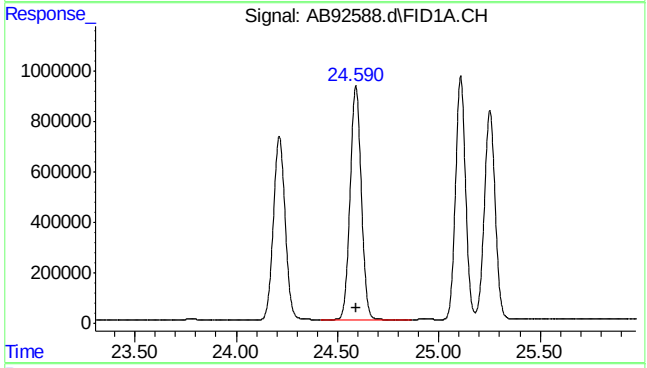
#15 o-xylene

R.T.: 23.163 min
Delta R.T.: 0.000 min
Response: 33195129
Conc: 50.00 ppb



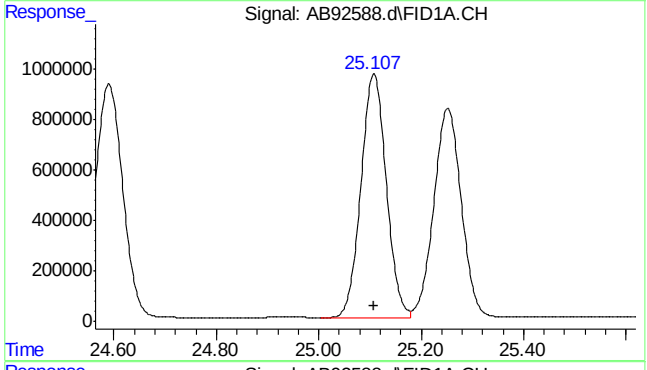
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 29380393
Conc: 50.00 ppb



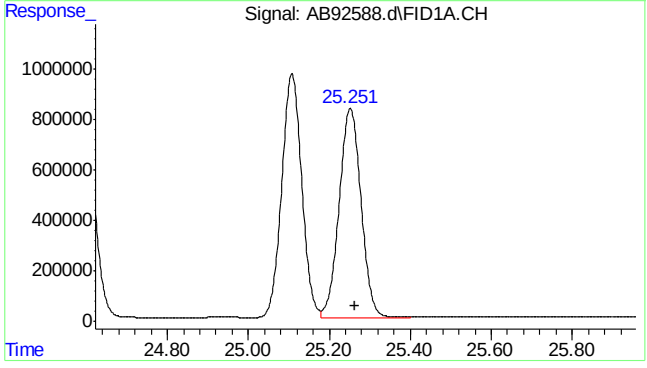
#17 1,3,5-trimethylbenzene

R.T.: 24.590 min
Delta R.T.: 0.000 min
Response: 35683239
Conc: 50.00 ppb



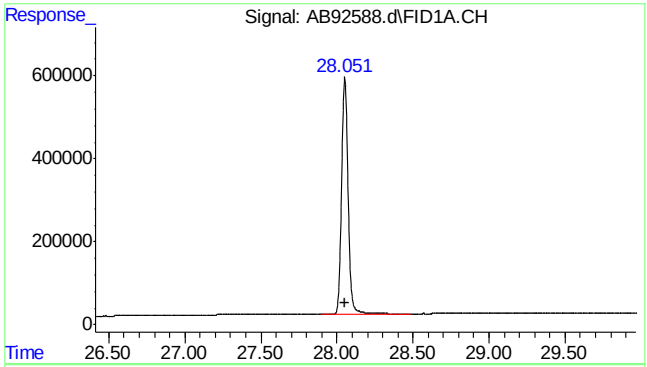
#18 1,2,4-trimethylbenzene

R.T.: 25.108 min
Delta R.T.: 0.000 min
Response: 33124851
Conc: 50.00 ppb



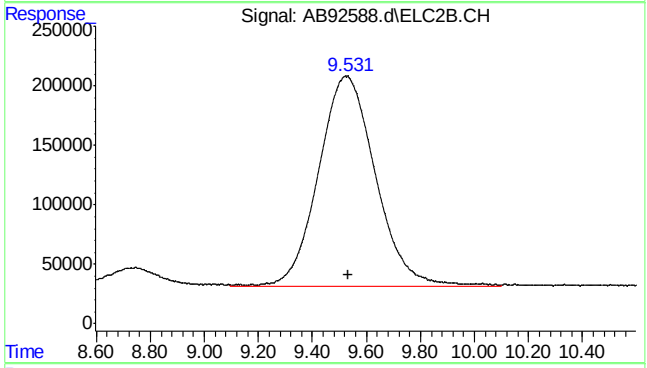
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 30974569
Conc: 50.02 ppb m



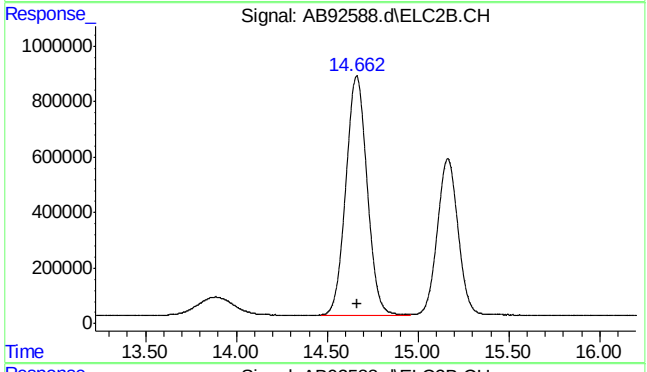
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: 0.000 min
Response: 17061887
Conc: 50.03 ppb m



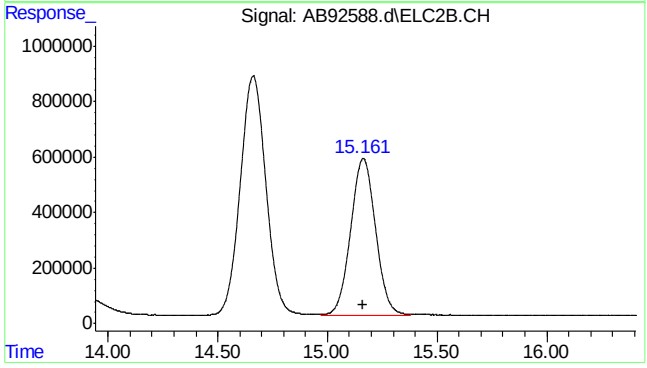
#23 mtbe #2

R.T.: 9.531 min
Delta R.T.: 0.000 min
Response: 25843788
Conc: 50.08 ppb m



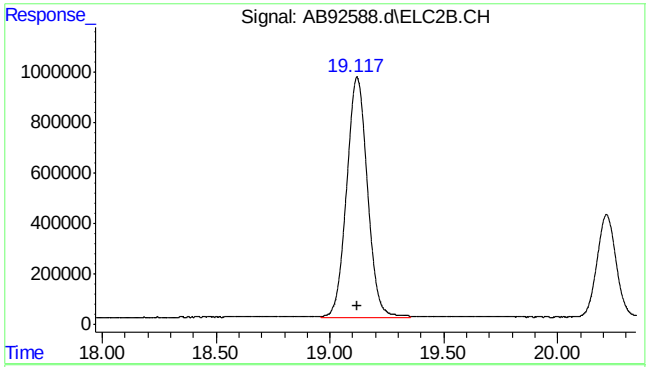
#24 benzene #2

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 70338009
Conc: 50.00 ppb



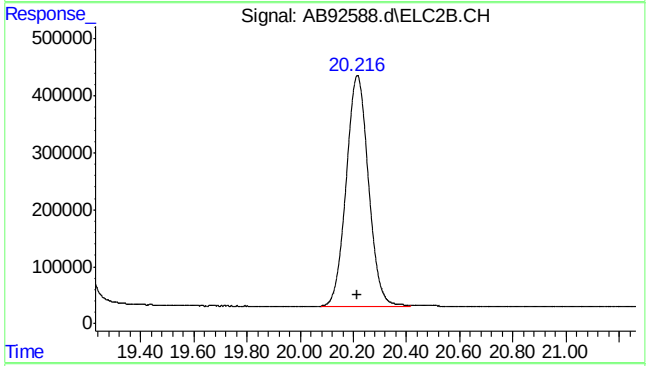
#25 fluorobenzene #2

R.T.: 15.162 min
Delta R.T.: 0.000 min
Response: 44830746
Conc: 50.00 ppb



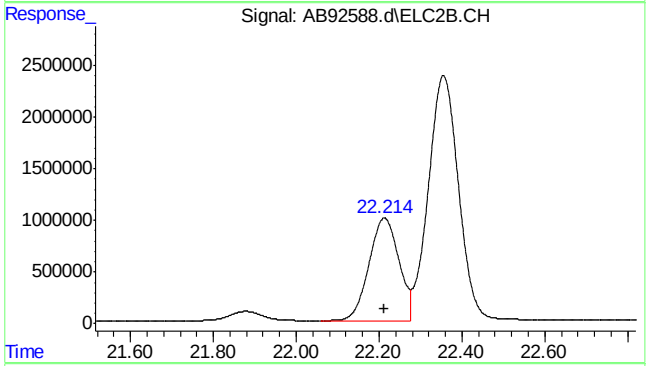
#26 toluene #2

R.T.: 19.118 min
Delta R.T.: 0.000 min
Response: 60419568
Conc: 50.00 ppb



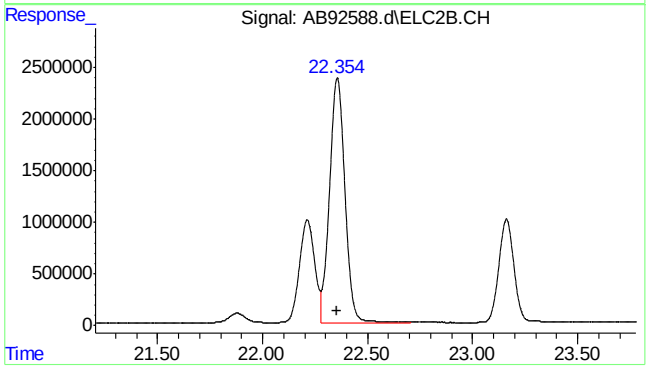
#27 2,3,4-trifluorotoluene #2

R.T.: 20.215 min
Delta R.T.: 0.000 min
Response: 23579401
Conc: 50.00 ppb



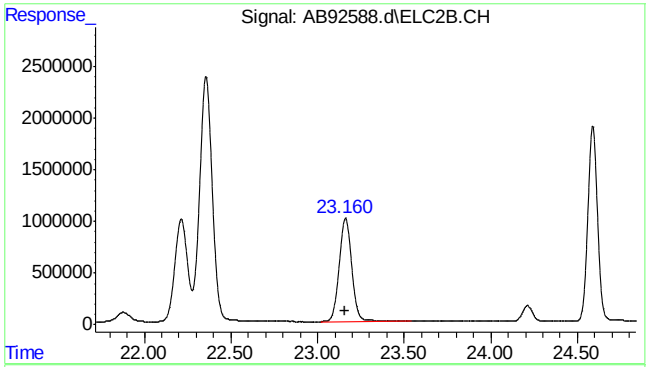
#28 ethylbenzene #2

R.T.: 22.213 min
Delta R.T.: 0.000 min
Response: 49929639
Conc: 50.00 ppb



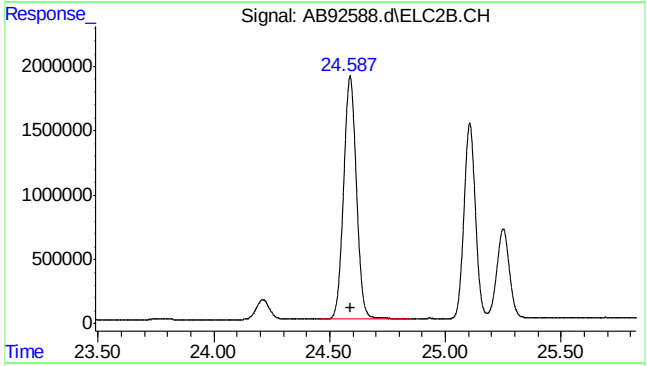
#29 m,p-xylene #2

R.T.: 22.356 min
Delta R.T.: 0.000 min
Response: 120749462
Conc: 100.00 ppb



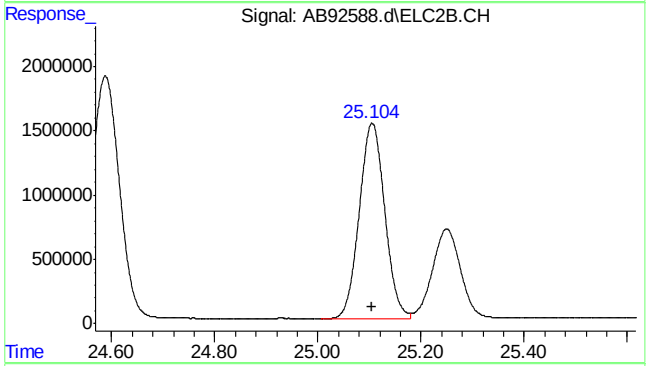
#30 o-xylene #2

R.T.: 23.161 min
Delta R.T.: 0.000 min
Response: 50672944
Conc: 50.00 ppb



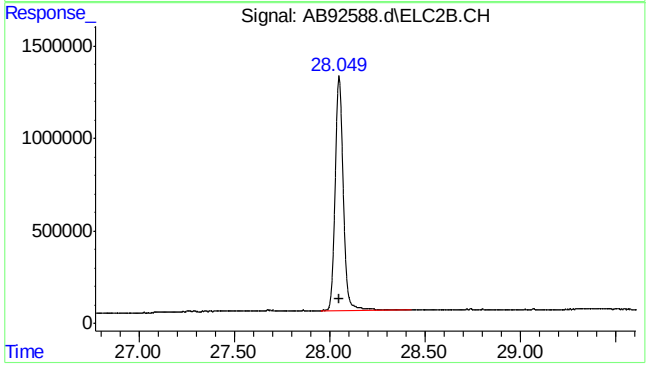
#31 1,3,5-trimethylbenzene #2

R.T.: 24.588 min
Delta R.T.: 0.000 min
Response: 73024638
Conc: 50.00 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.105 min
Delta R.T.: 0.000 min
Response: 52288916
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 28.049 min
Delta R.T.: 0.000 min
Response: 37670302
Conc: 50.00 ppb m

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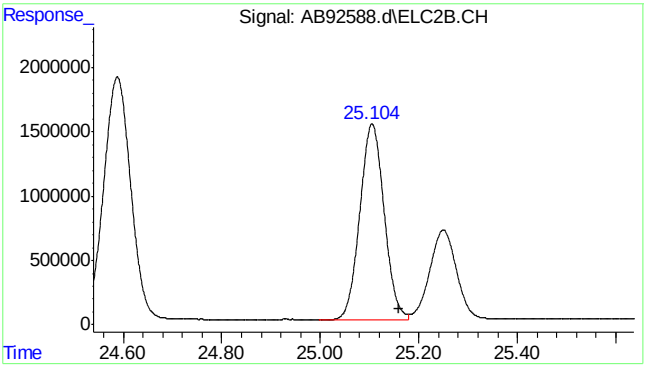


#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 52491156
Conc: 49.99 ppb m

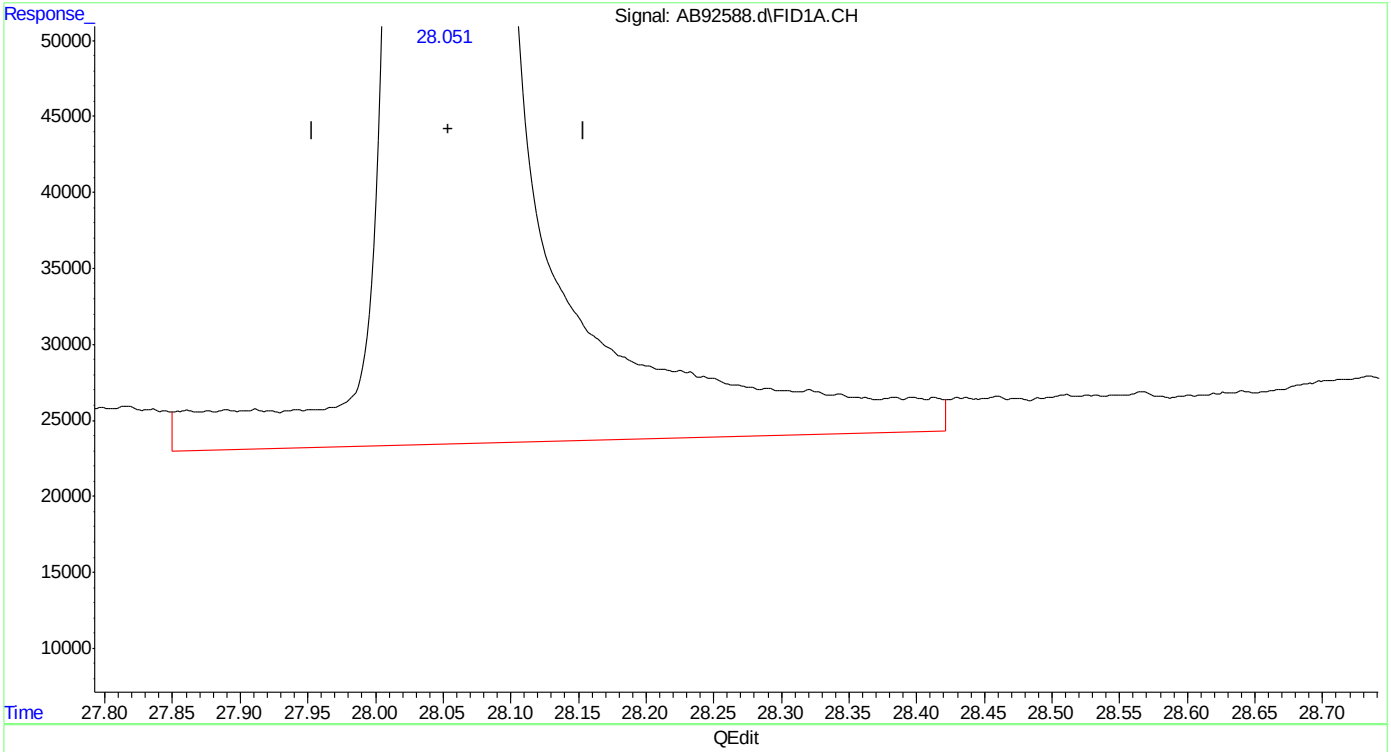
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.052min 52.879 ppb
response 17760539

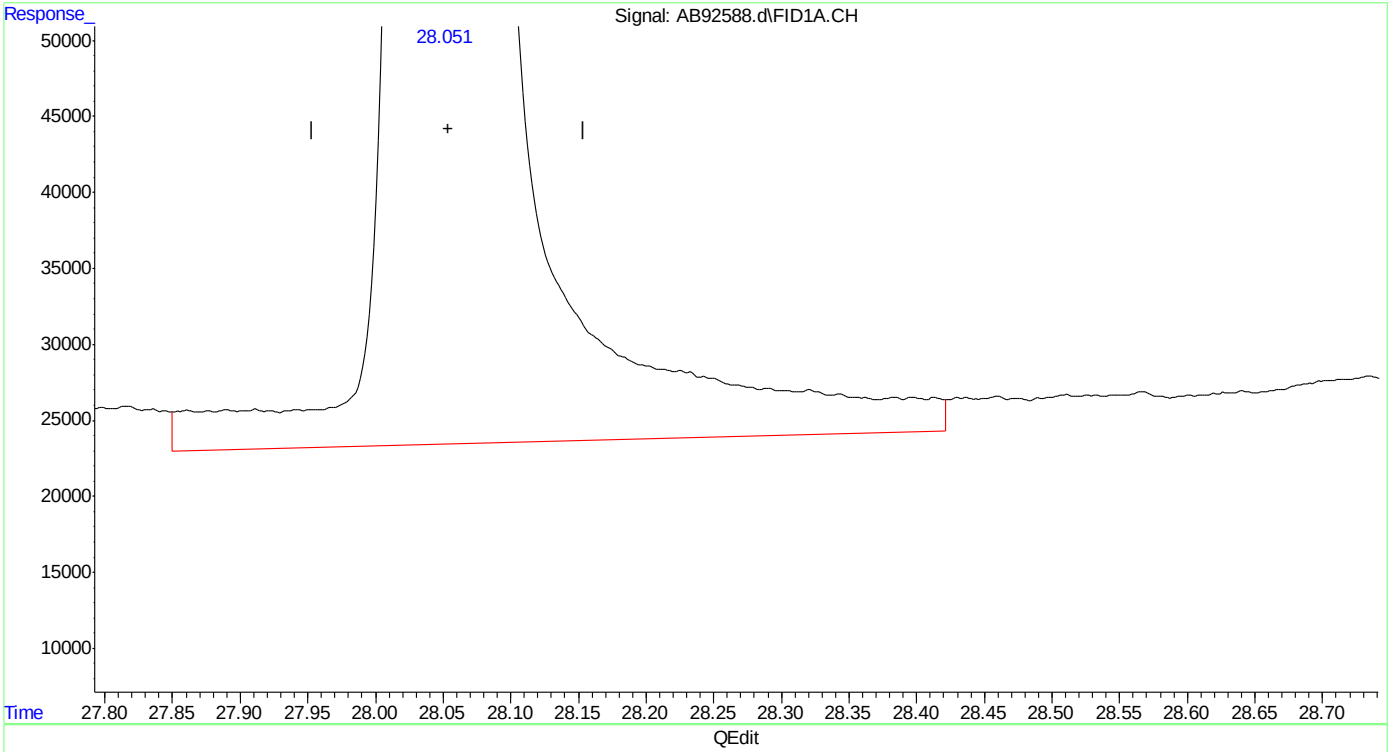
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.052min 52.879 ppb
response 17760539

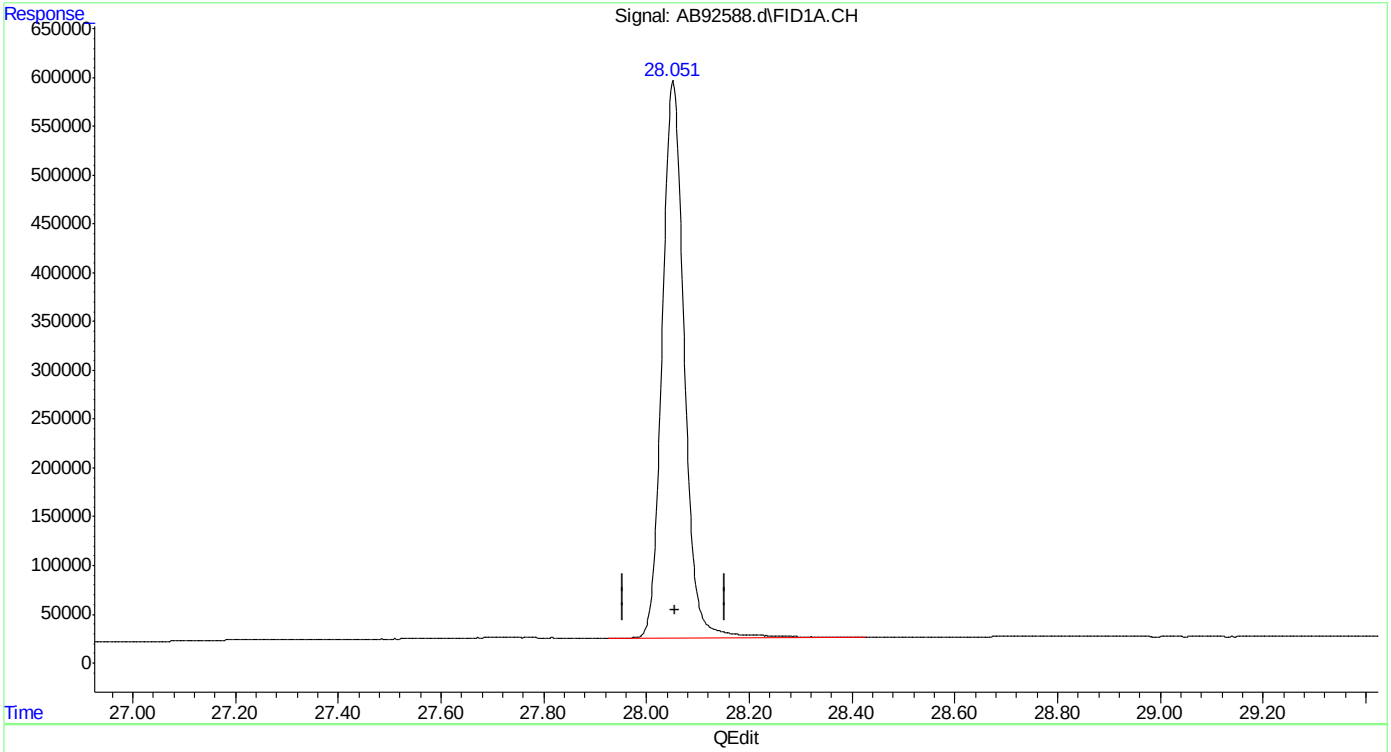
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.051min 50.773 ppb m
response 17053298

(+) = Expected Retention Time

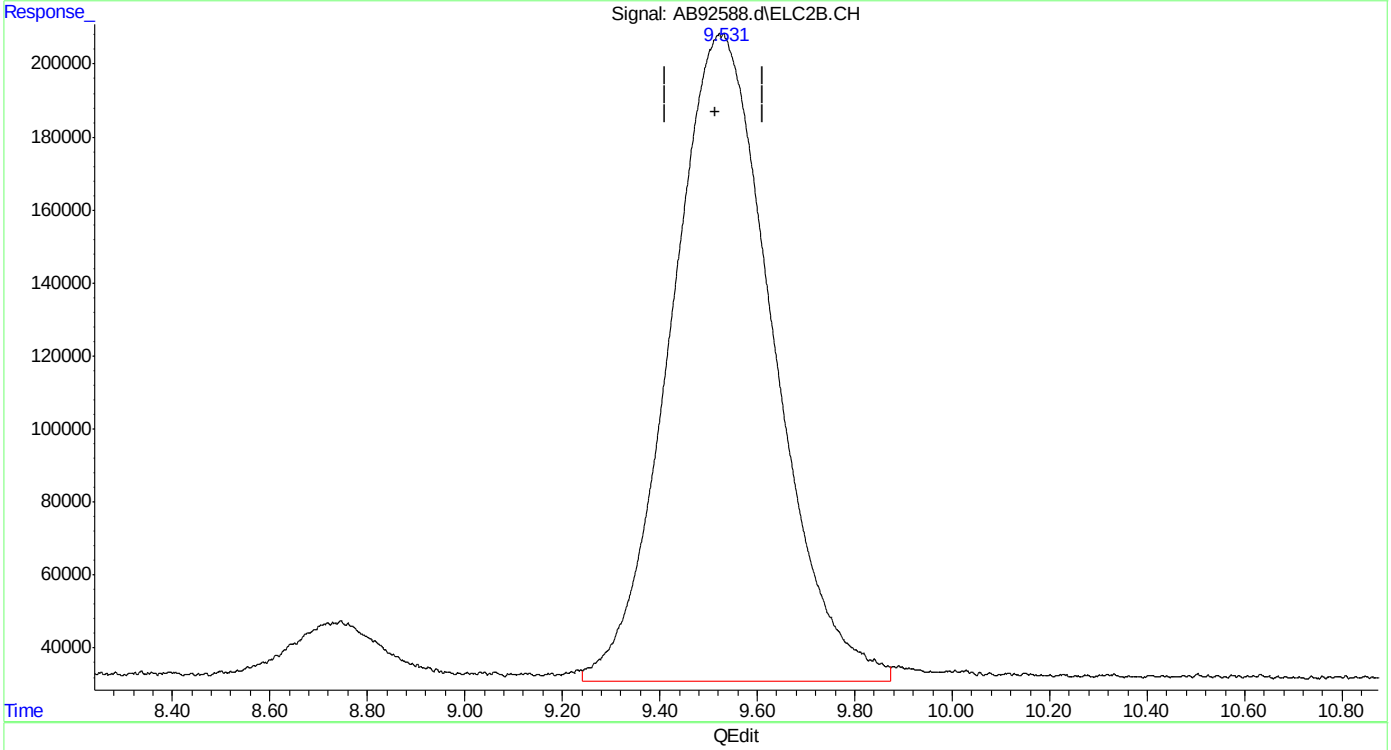
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.522min 50.415 ppb
response 25829396

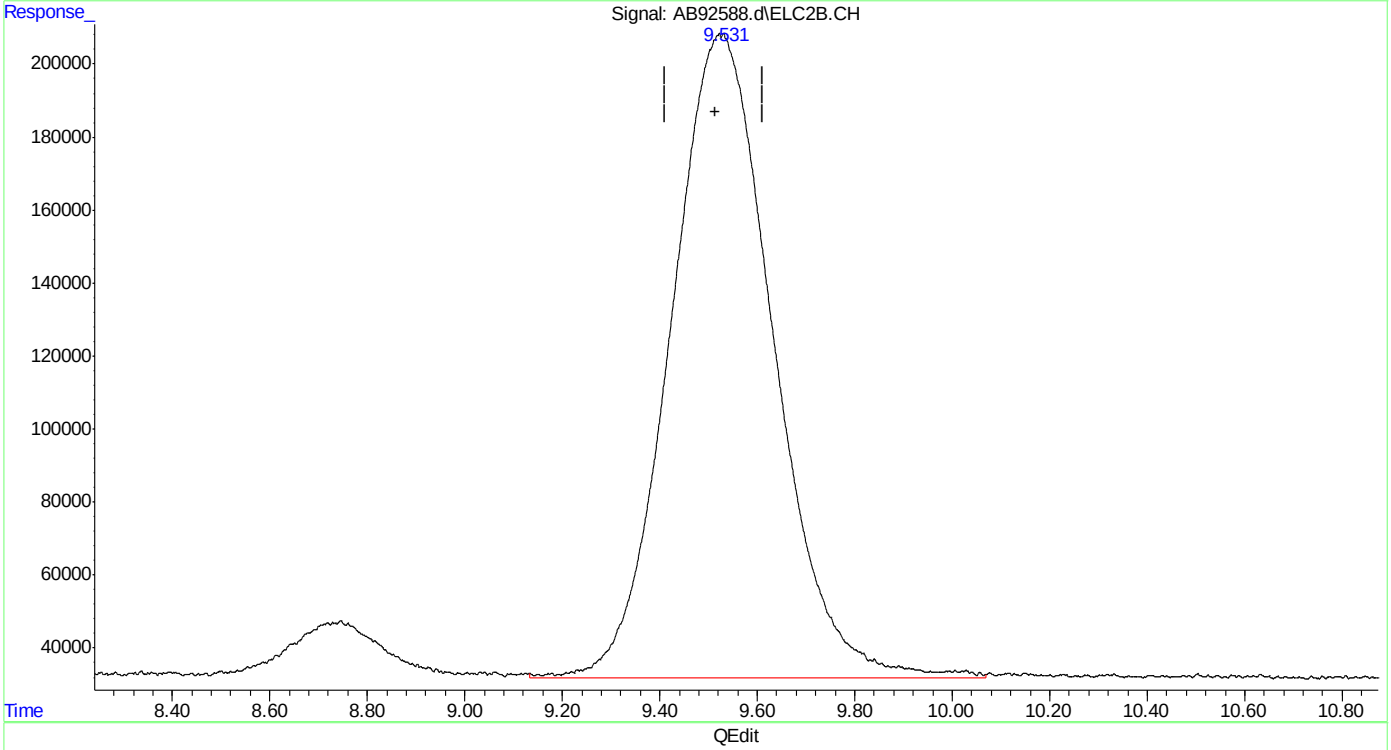
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.531min 50.367 ppb m
response 25804554

(+) = Expected Retention Time

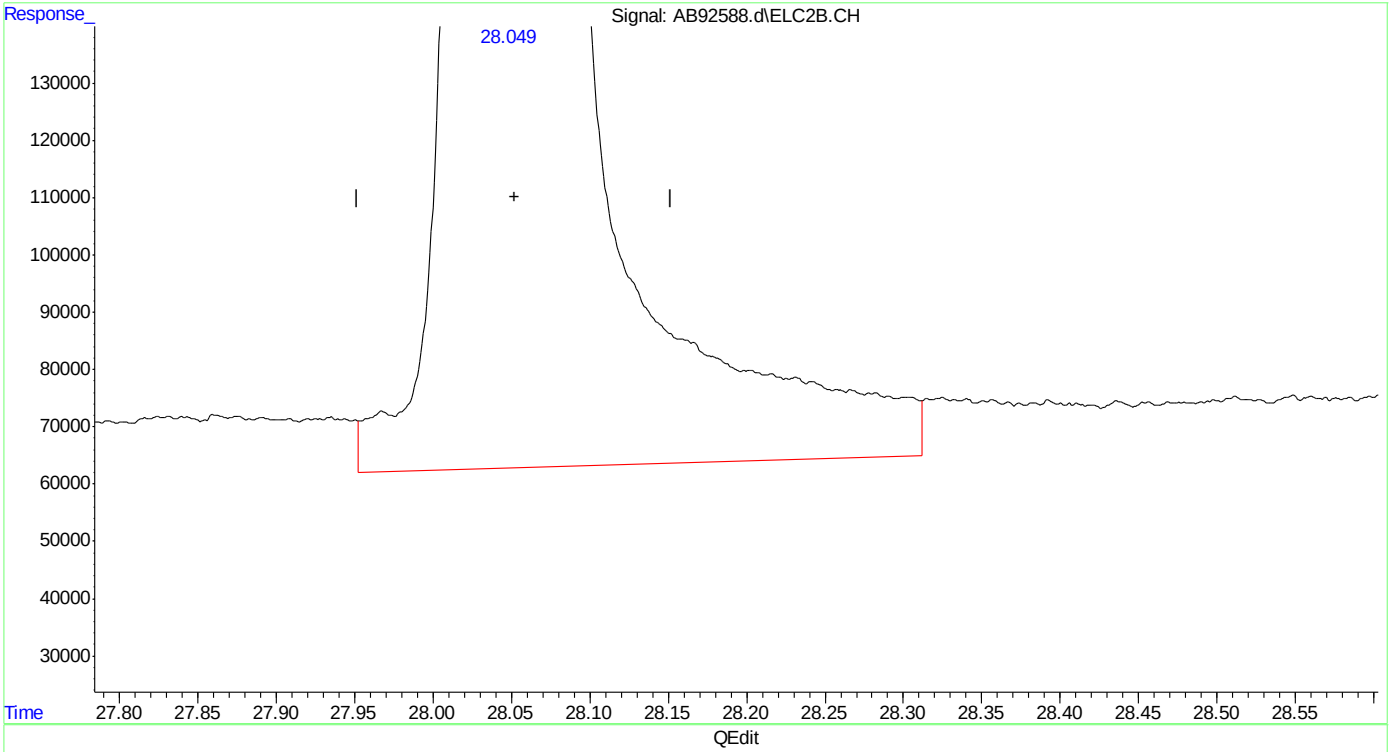
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.049min 54.400 ppb
response 39376906

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 11:28:00 2016

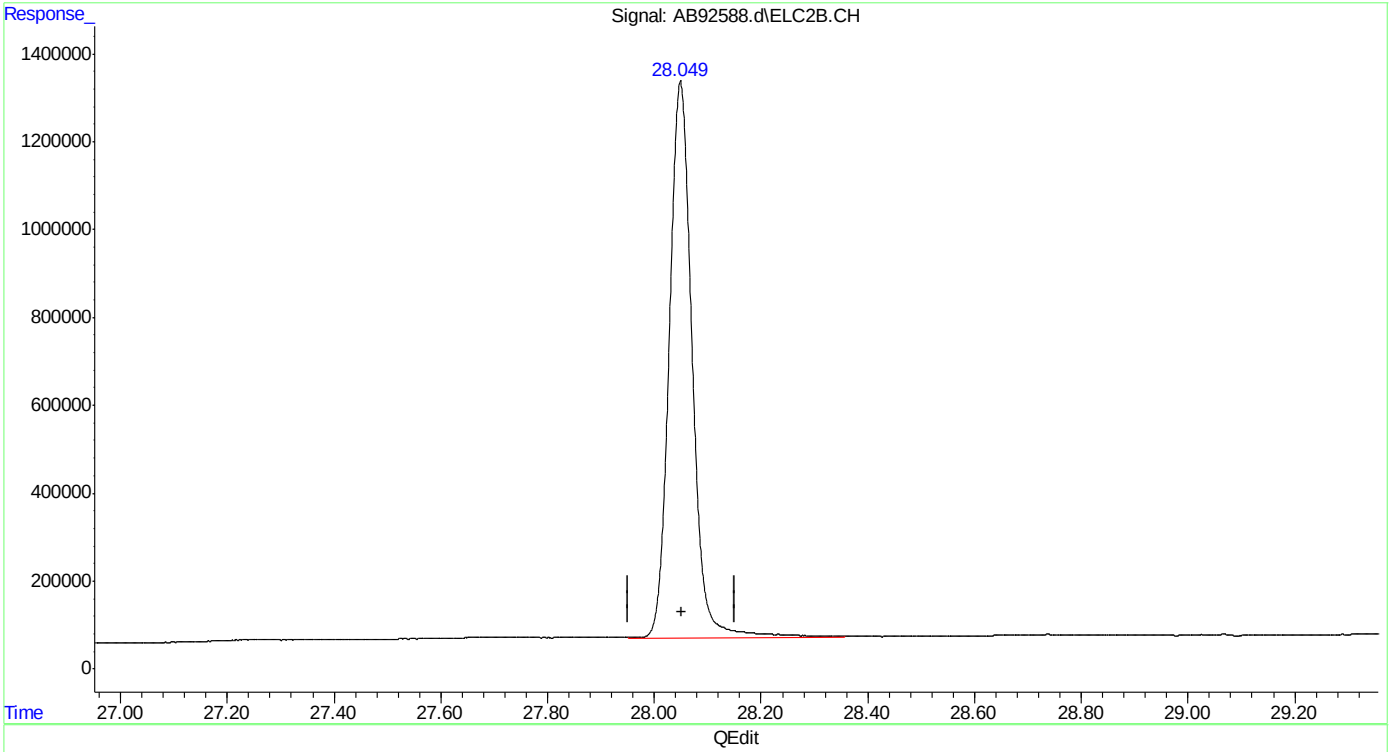
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.049min 52.040 ppb m
response 37668697

(+) = Expected Retention Time

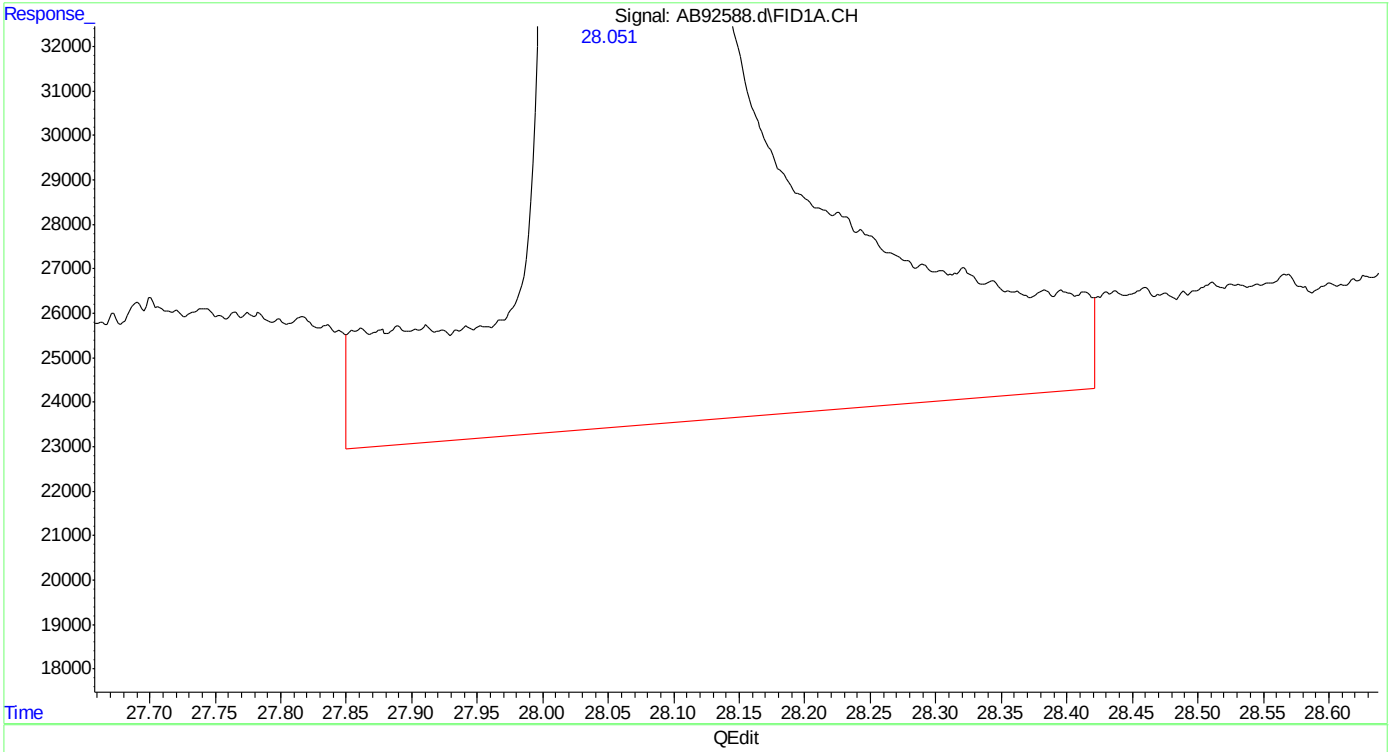
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.052min 52.074 ppb
response 17760539

(+) = Expected Retention Time

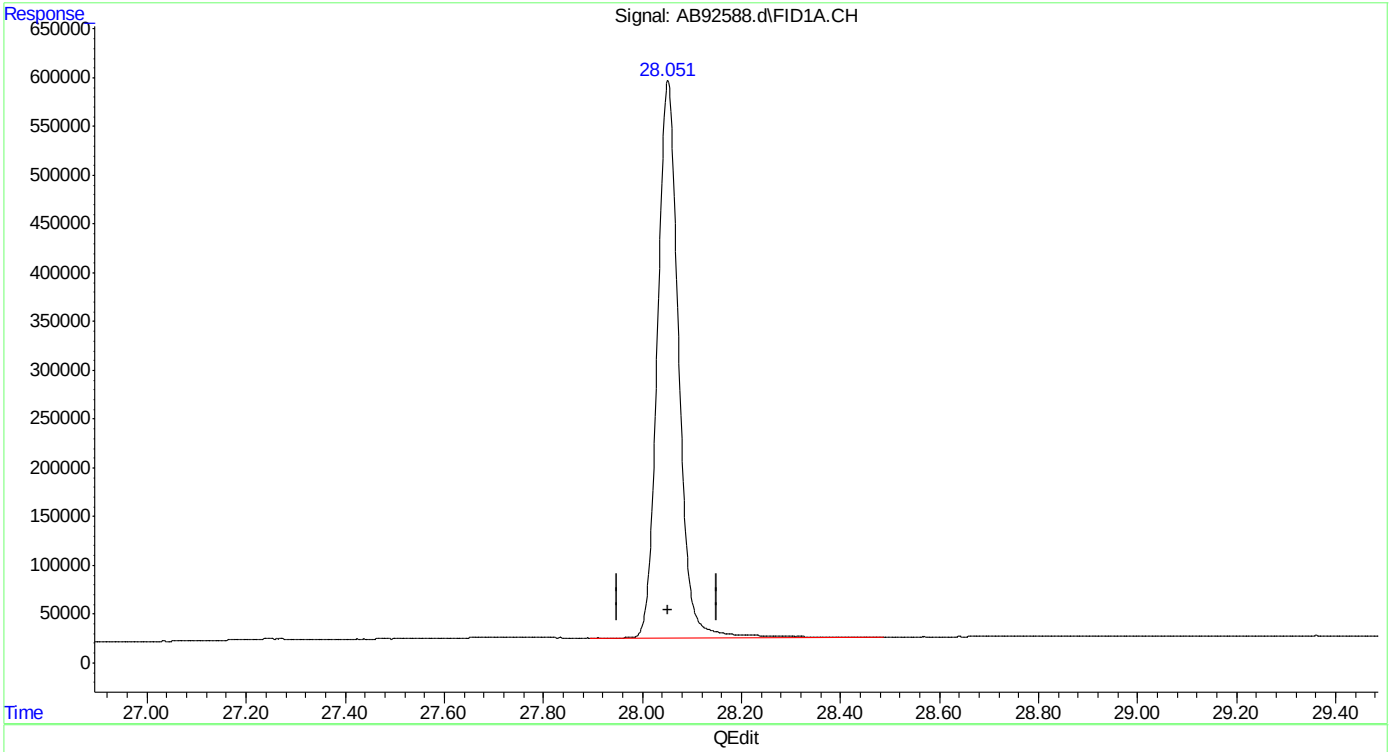
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.051min 50.025 ppb m
response 17061887

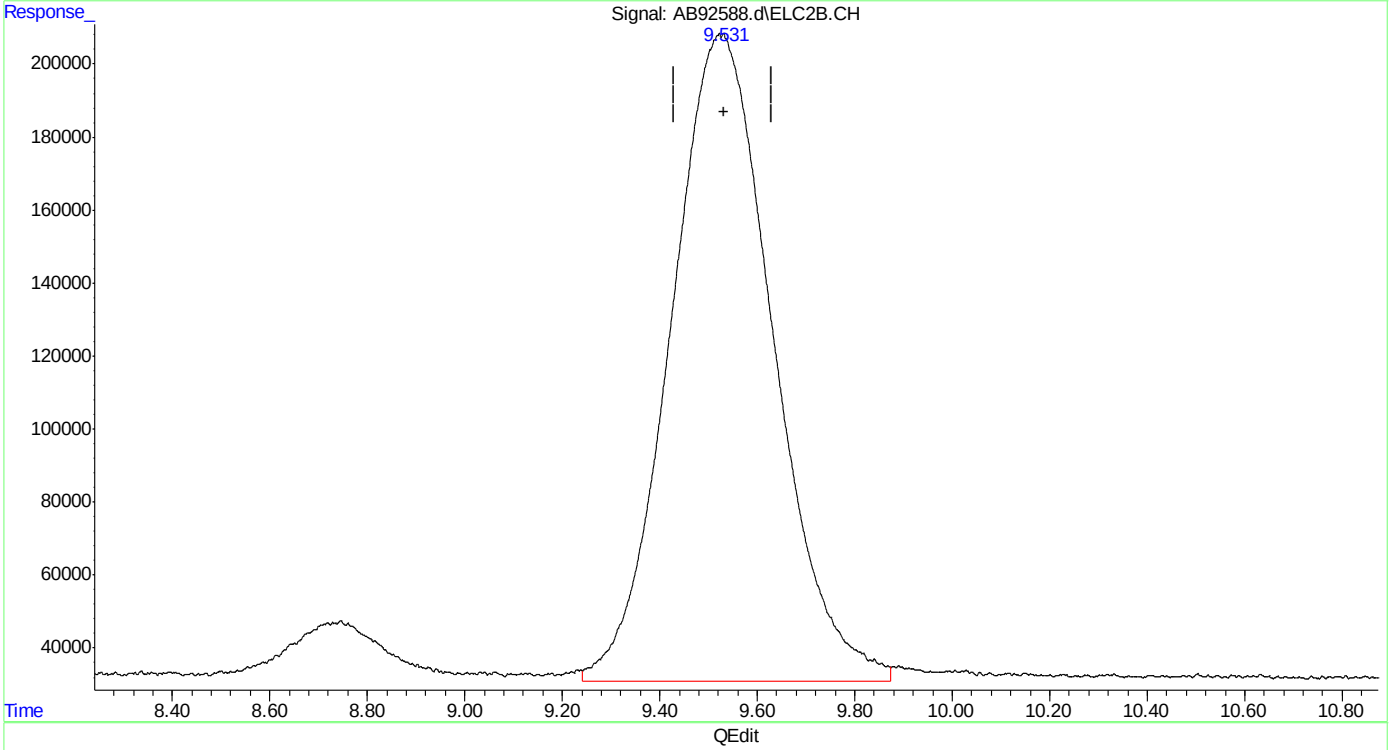
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.522min 50.048 ppb
response 25829396

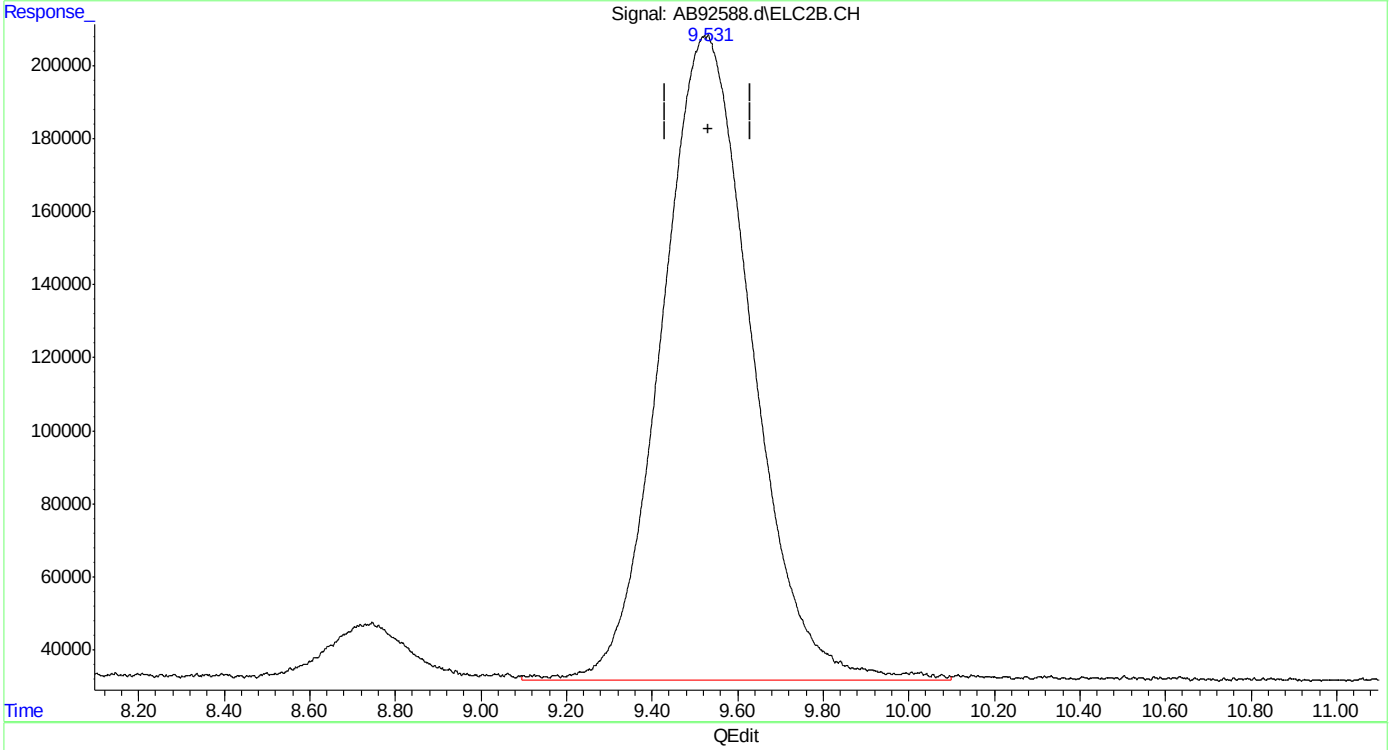
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.531min 50.076 ppb m
response 25843788

(+) = Expected Retention Time

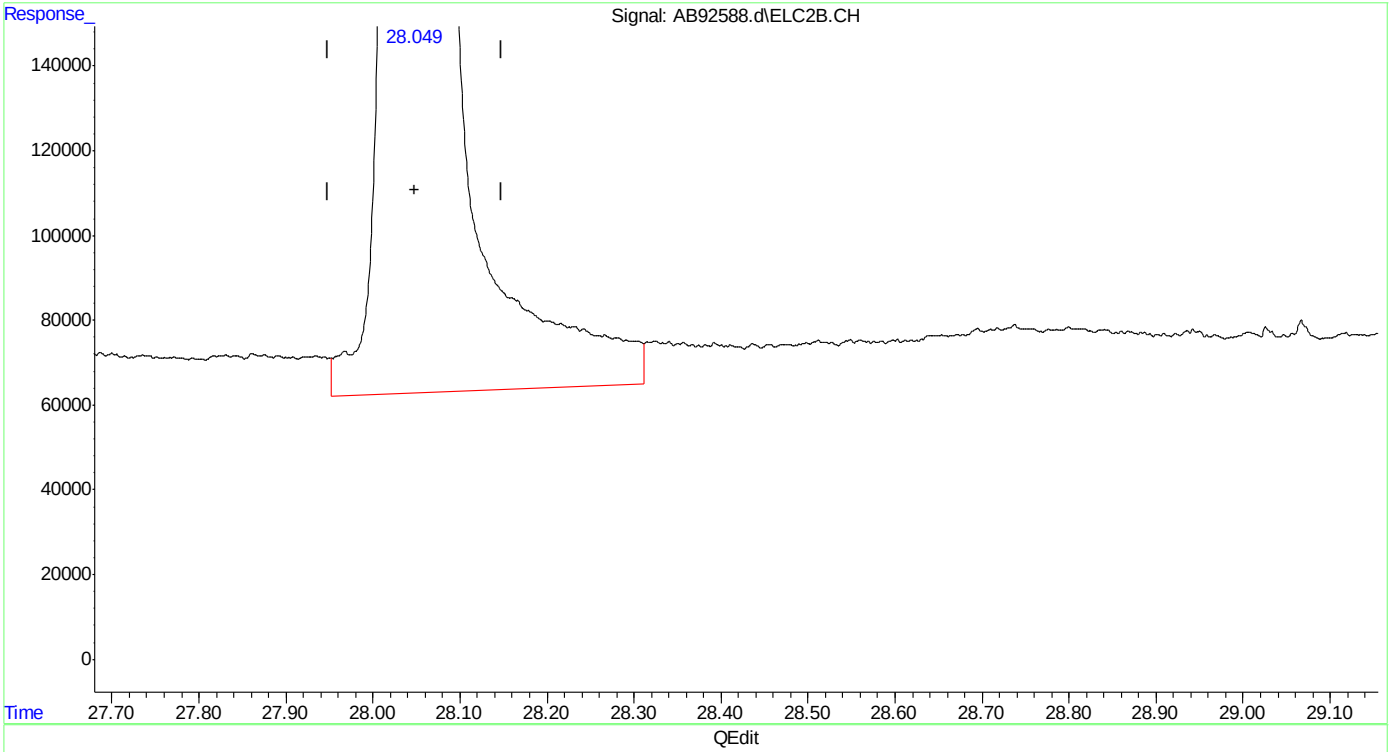
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.049min 52.267 ppb
response 39376906

(+) = Expected Retention Time

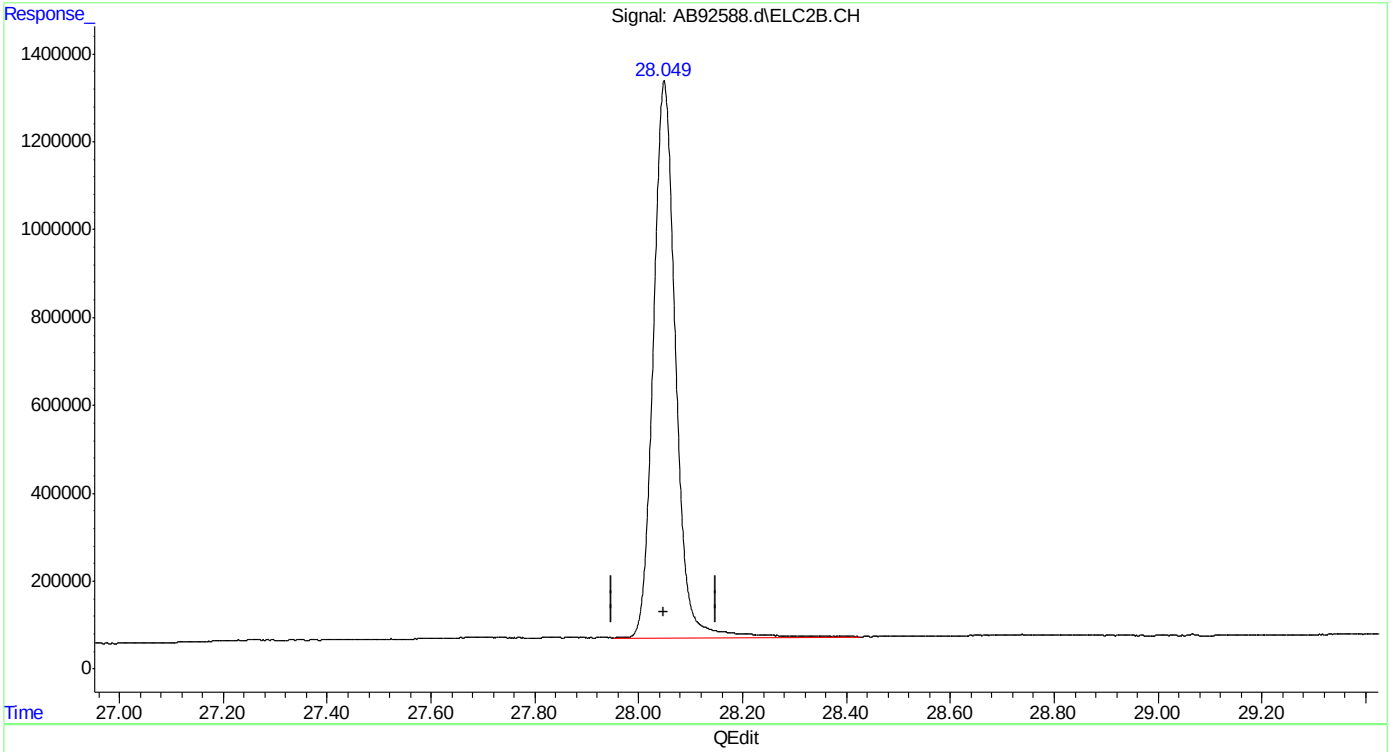
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.049min 50.002 ppb m
response 37670302

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:12:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.168	4362458	9.864 ppb	m
Spiked Amount 50.000		Recovery =	19.73%	
9) s 2,3,4-trifluorotoluene	20.220	4158758	10.238 ppb	m
Spiked Amount 50.000		Recovery =	20.48%	
25) s fluorobenzene #2	15.165	8690415	9.692 ppb	m
Spiked Amount 50.000		Recovery =	19.38%	
27) s 2,3,4-trifluorotoluen...	20.218	4721681	10.012 ppb	
Spiked Amount 50.000		Recovery =	20.02%	
Target Compounds				
1) h rt5.5-7	6.370	3766236	10.859 ppb	m
2) h rt7/10	8.710	4308812	10.809 ppb	m
3) mtbe	9.531	2209462	10.126 ppb	m
4) h rt10/13	13.890	4807629	10.873 ppb	m
5) benzene	14.665	5646132	10.366 ppb	
8) toluene	19.124	6173366	10.277 ppb	m
11) h rt20/25	21.900	6317132	11.059 ppb	m
13) ethylbenzene	22.217	6624507	10.391 ppb	
14) m,p-xylene	22.361	13841478	21.019 ppb	
15) o-xylene	23.165	6899240	10.392 ppb	m
16) h decane	24.230	6389567	10.874 ppb	m
17) t 1,3,5-trimethylbenzene	24.592	7137343	10.001 ppb	m
18) 1,2,4-trimethylbenzene	25.110	6940844	10.477 ppb	
19) h butylcyclohexane	25.263	6902750	11.143 ppb	m
20) naphthalene	28.056	3925512	11.504 ppb	m
23) mtbe #2	9.536	5190787	10.043 ppb	m
24) benzene #2	14.666	13970184	9.931 ppb	m
26) toluene #2	19.121	12172198	10.073 ppb	m
28) ethylbenzene #2	22.215	9984696	9.999 ppb	m
29) m,p-xylene #2	22.358	24640906	20.407 ppb	
30) o-xylene #2	23.163	10078357	9.945 ppb	m
31) t 1,3,5-trimethylbenzen...	24.590	14168908	9.701 ppb	
32) 1,2,4-trimethylbenzen...	25.108	10650588	10.184 ppb	
33) naphthalene #2	28.054	8606987	11.424 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	10728698	10.220 ppb	m

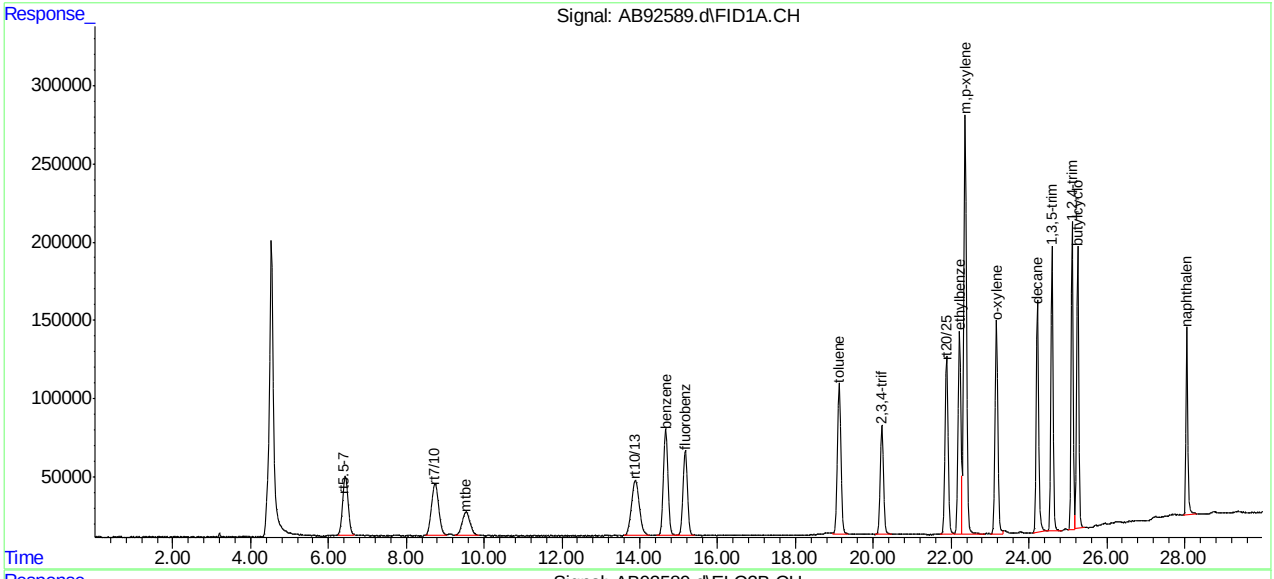
(f)=RT Delta > 1/2 Window (m)=manual int.

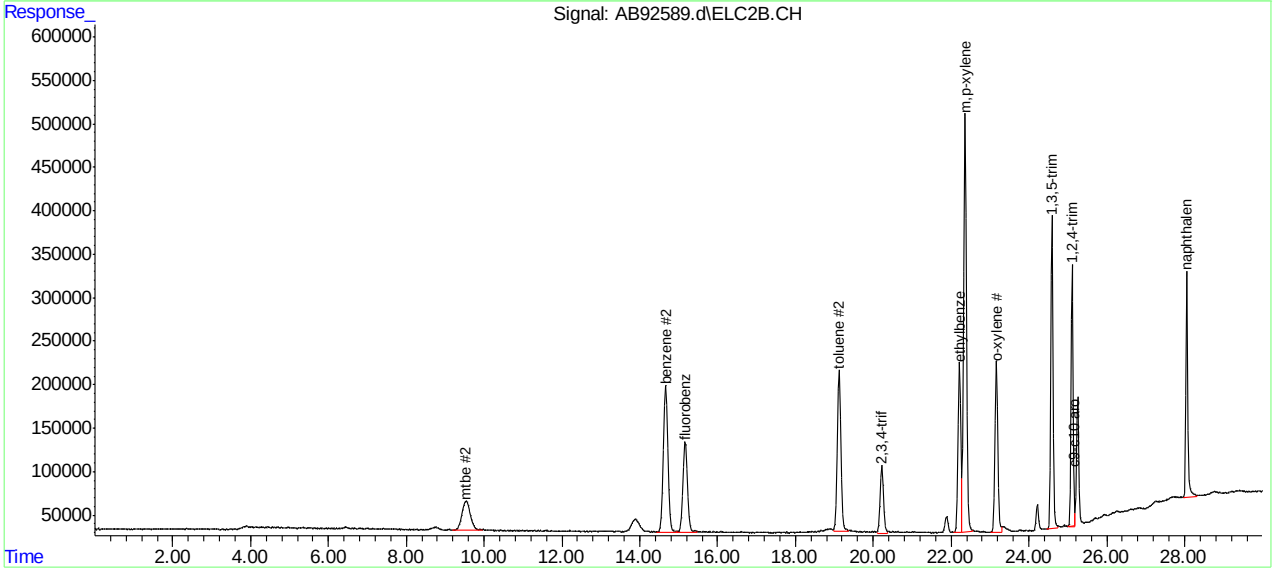
Quantitation Report (QT Reviewed)

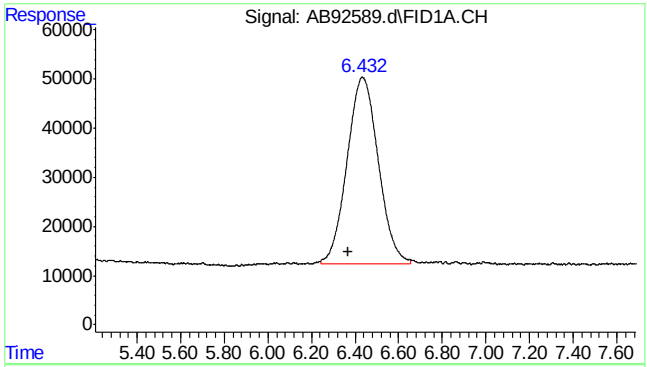
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:12:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

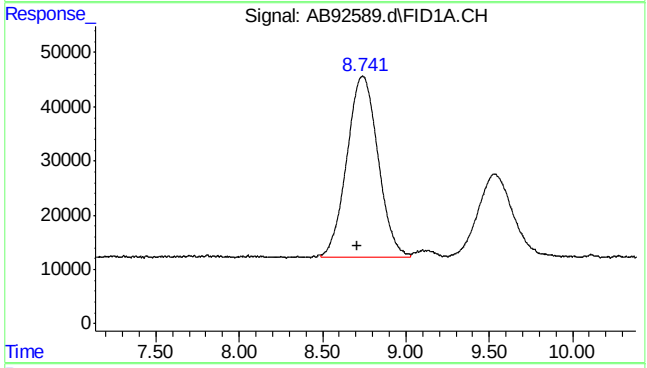






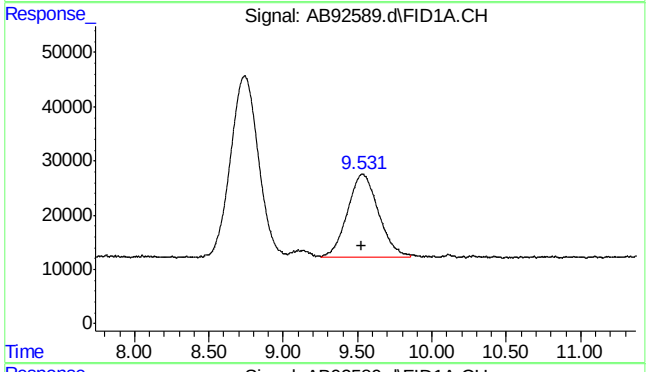
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 3766236
Conc: 10.86 ppb m



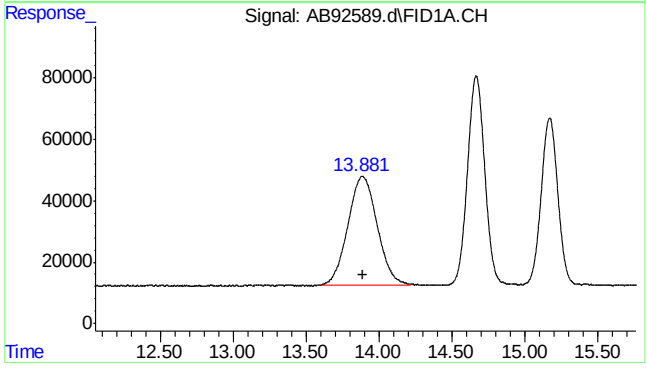
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 4308812
Conc: 10.81 ppb m



#3 mtbe

R.T.: 9.531 min
Delta R.T.: 0.006 min
Response: 2209462
Conc: 10.13 ppb m



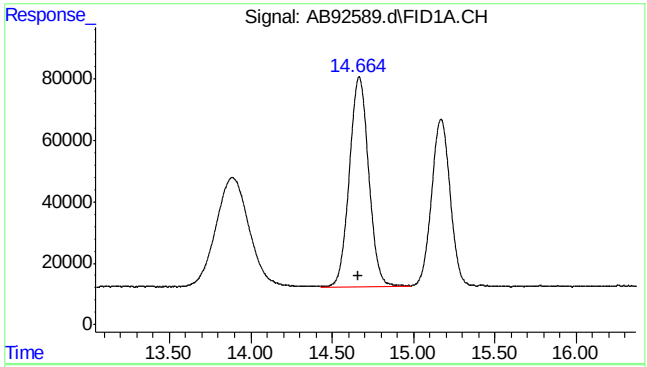
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 4807629
Conc: 10.87 ppb m

7.5.6

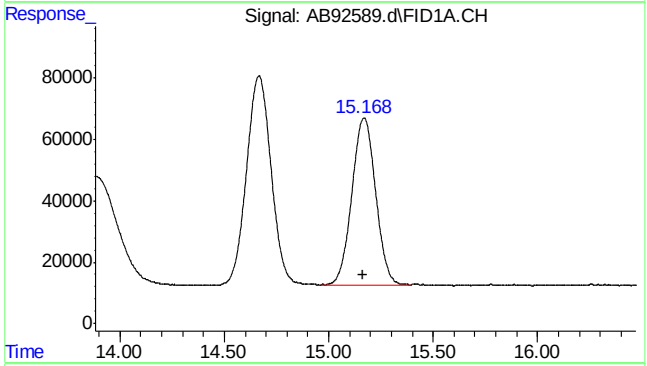
7

SGS ACCUTEST MC45611



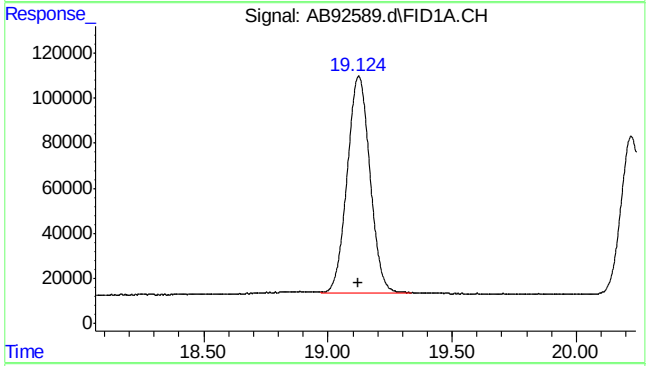
#5 benzene

R.T.: 14.665 min
Delta R.T.: 0.003 min
Response: 5646132
Conc: 10.37 ppb



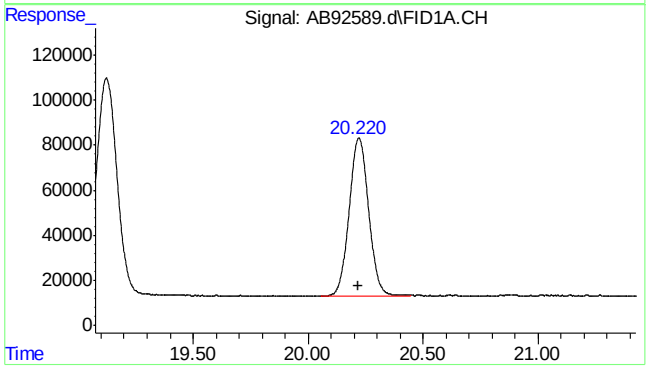
#6 fluorobenzene

R.T.: 15.168 min
Delta R.T.: 0.004 min
Response: 4362458
Conc: 9.86 ppb m



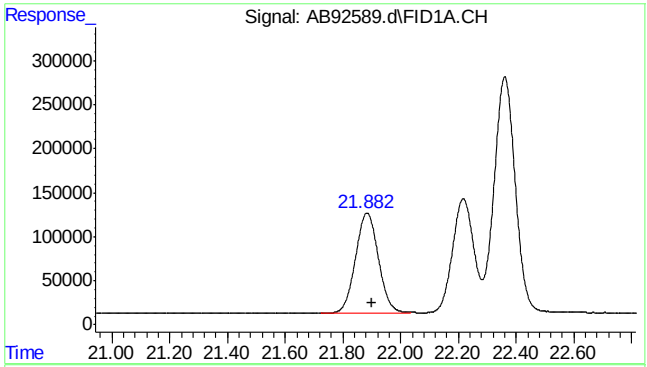
#8 toluene

R.T.: 19.124 min
Delta R.T.: 0.003 min
Response: 6173366
Conc: 10.28 ppb m



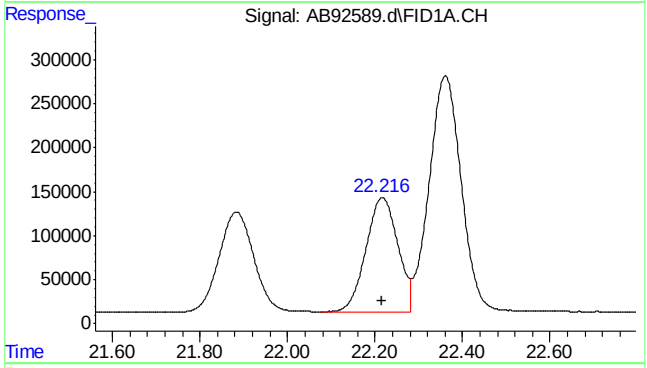
#9 2,3,4-trifluorotoluene

R.T.: 20.220 min
Delta R.T.: 0.003 min
Response: 4158758
Conc: 10.24 ppb m



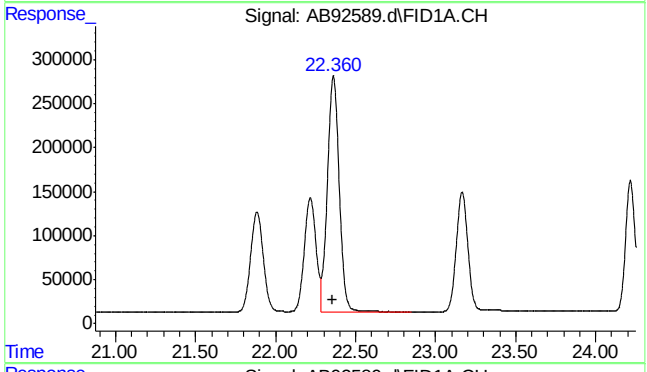
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 6317132
Conc: 11.06 ppb m



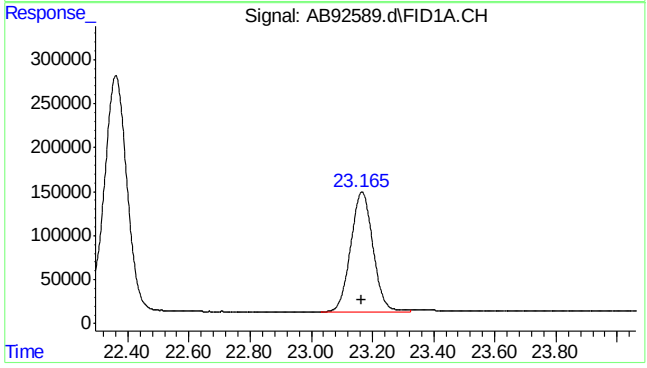
#13 ethylbenzene

R.T.: 22.217 min
Delta R.T.: 0.002 min
Response: 6624507
Conc: 10.39 ppb



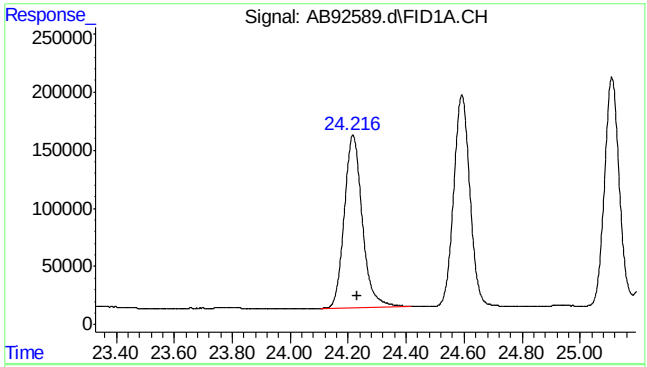
#14 m,p-xylene

R.T.: 22.361 min
Delta R.T.: 0.002 min
Response: 13841478
Conc: 21.02 ppb



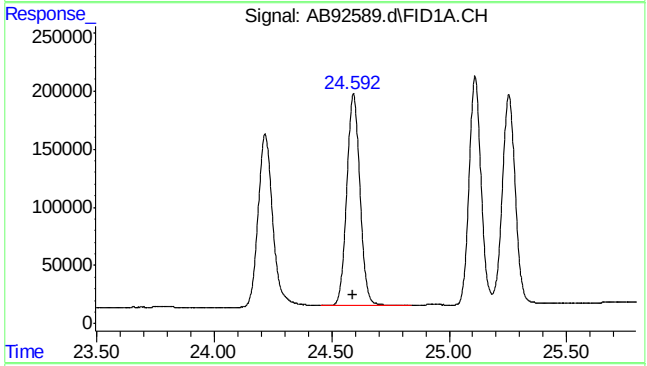
#15 o-xylene

R.T.: 23.165 min
Delta R.T.: 0.002 min
Response: 6899240
Conc: 10.39 ppb m



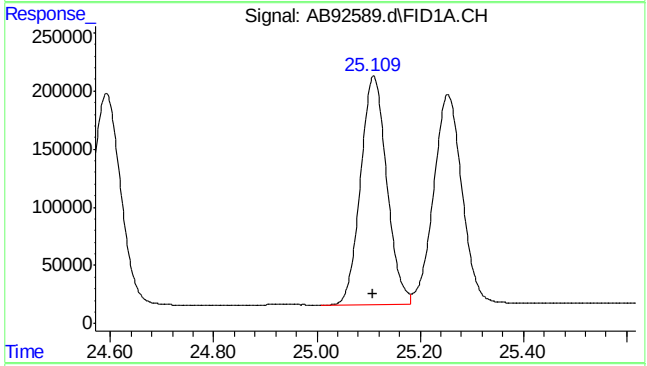
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 6389567
Conc: 10.87 ppb m



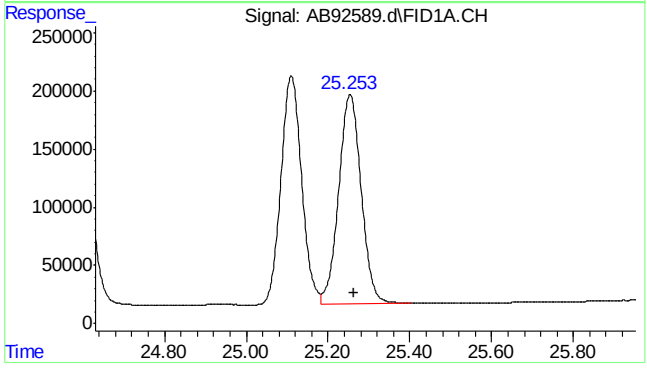
#17 1,3,5-trimethylbenzene

R.T.: 24.592 min
Delta R.T.: 0.001 min
Response: 7137343
Conc: 10.00 ppb m



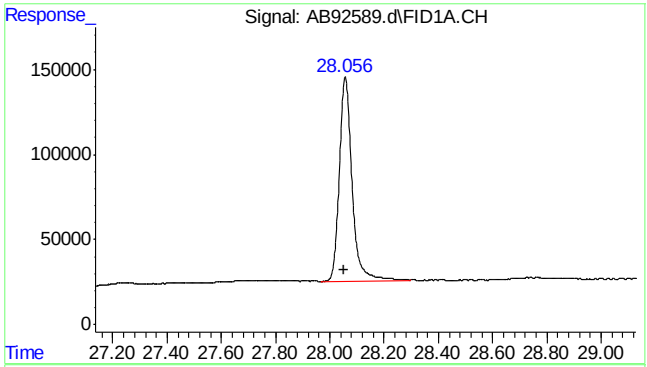
#18 1,2,4-trimethylbenzene

R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 6940844
Conc: 10.48 ppb



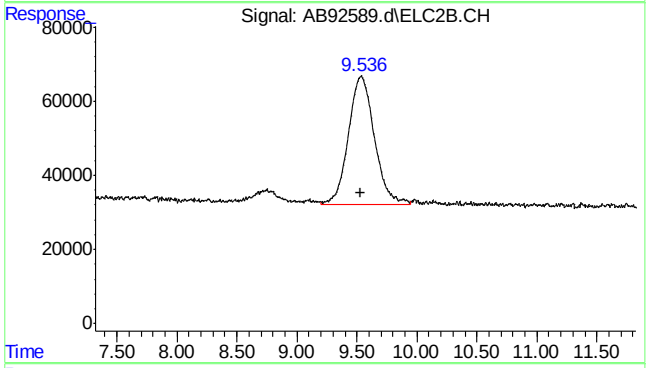
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 6902750
Conc: 11.14 ppb m



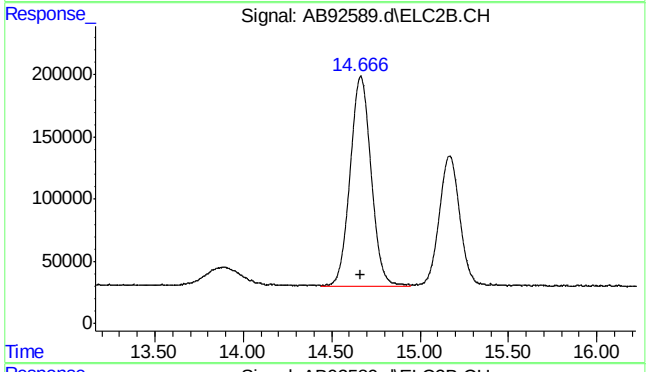
#20 naphthalene

R.T.: 28.056 min
Delta R.T.: 0.005 min
Response: 3925512
Conc: 11.50 ppb m



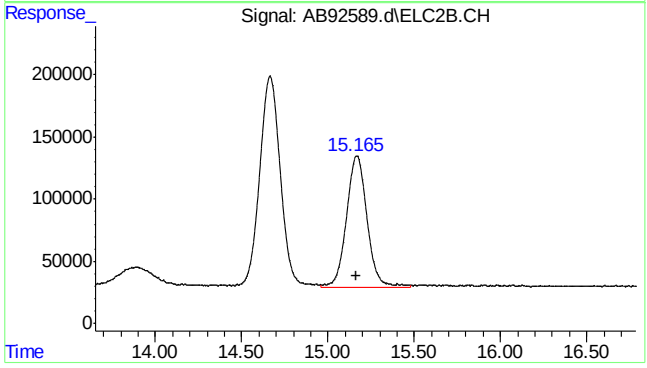
#23 mtbe #2

R.T.: 9.536 min
Delta R.T.: 0.005 min
Response: 5190787
Conc: 10.04 ppb m



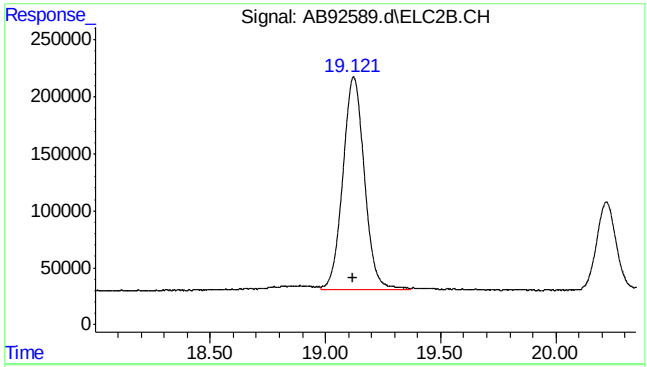
#24 benzene #2

R.T.: 14.666 min
Delta R.T.: 0.004 min
Response: 13970184
Conc: 9.93 ppb m



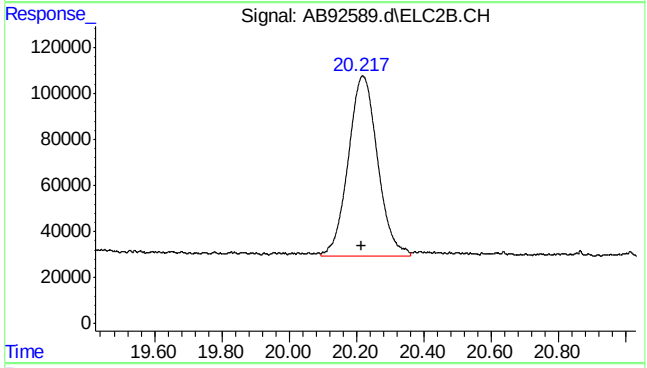
#25 fluorobenzene #2

R.T.: 15.165 min
Delta R.T.: 0.004 min
Response: 8690415
Conc: 9.69 ppb m



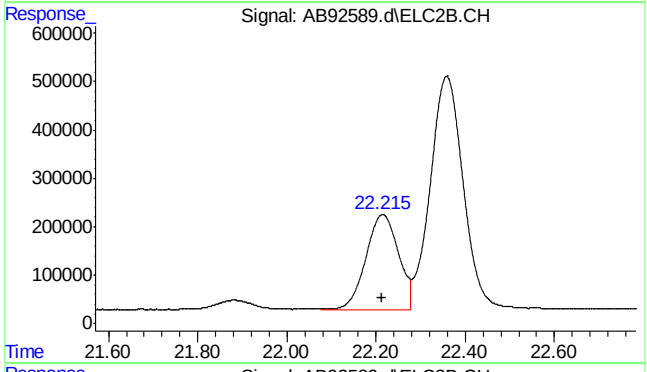
#26 toluene #2

R.T.: 19.121 min
Delta R.T.: 0.002 min
Response: 12172198
Conc: 10.07 ppb m



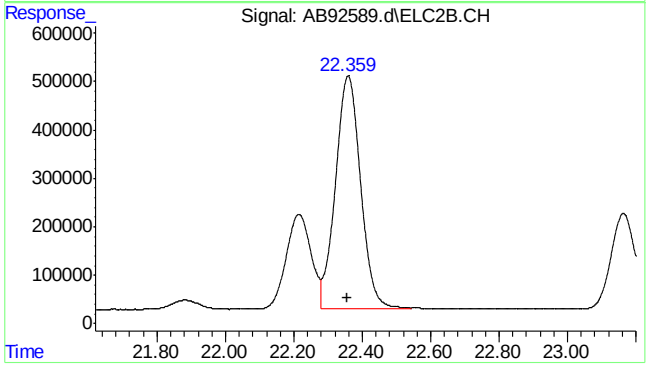
#27 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: 0.002 min
Response: 4721681
Conc: 10.01 ppb



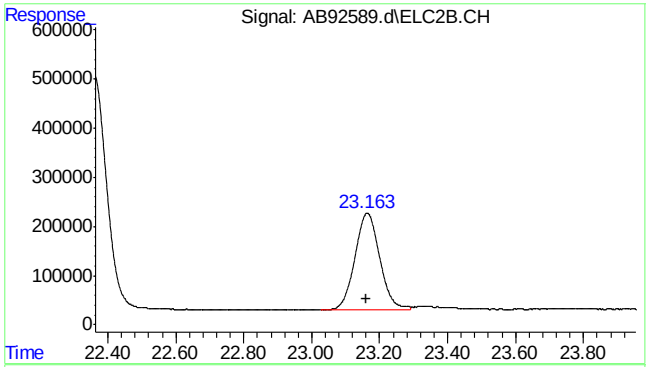
#28 ethylbenzene #2

R.T.: 22.215 min
Delta R.T.: 0.003 min
Response: 9984696
Conc: 10.00 ppb m



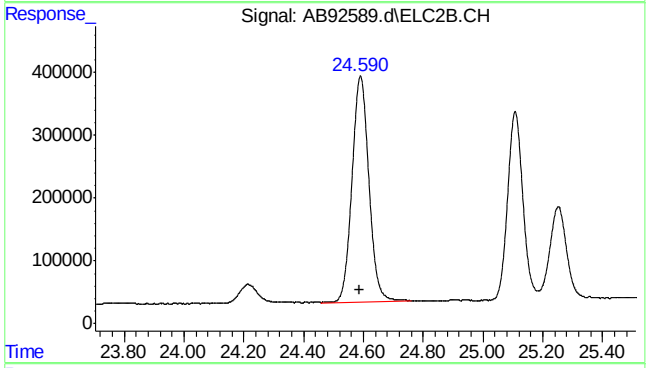
#29 m,p-xylene #2

R.T.: 22.358 min
Delta R.T.: 0.003 min
Response: 24640906
Conc: 20.41 ppb



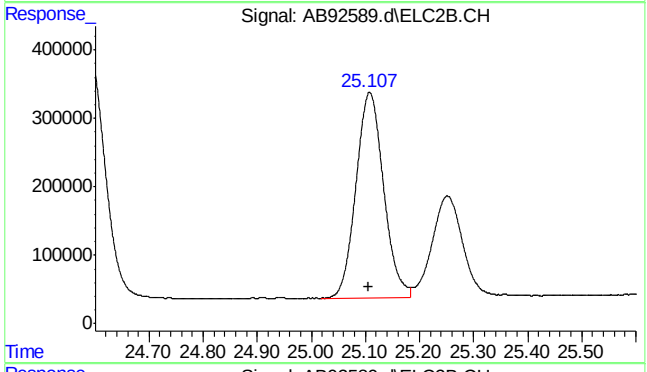
#30 o-xylene #2

R.T.: 23.163 min
Delta R.T.: 0.001 min
Response: 10078357
Conc: 9.94 ppb m



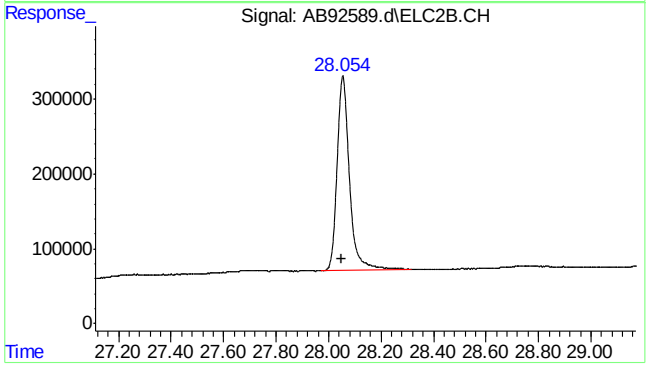
#31 1,3,5-trimethylbenzene #2

R.T.: 24.590 min
Delta R.T.: 0.002 min
Response: 14168908
Conc: 9.70 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.108 min
Delta R.T.: 0.003 min
Response: 10650588
Conc: 10.18 ppb



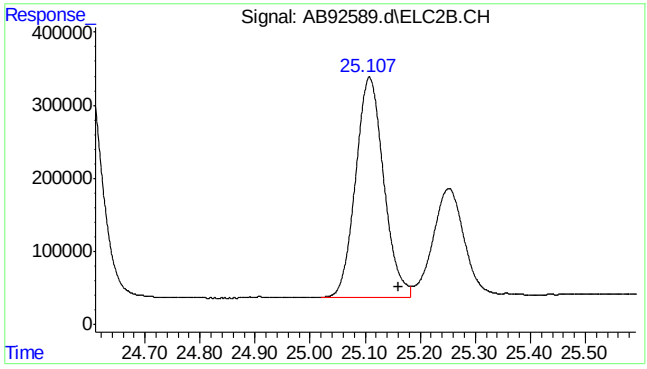
#33 naphthalene #2

R.T.: 28.054 min
Delta R.T.: 0.005 min
Response: 8606987
Conc: 11.42 ppb m

7.5.6

7

SGS ACCUTEST MC45611




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

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:  10728698
      Conc:  10.22 ppb m
```

7.5.6

7

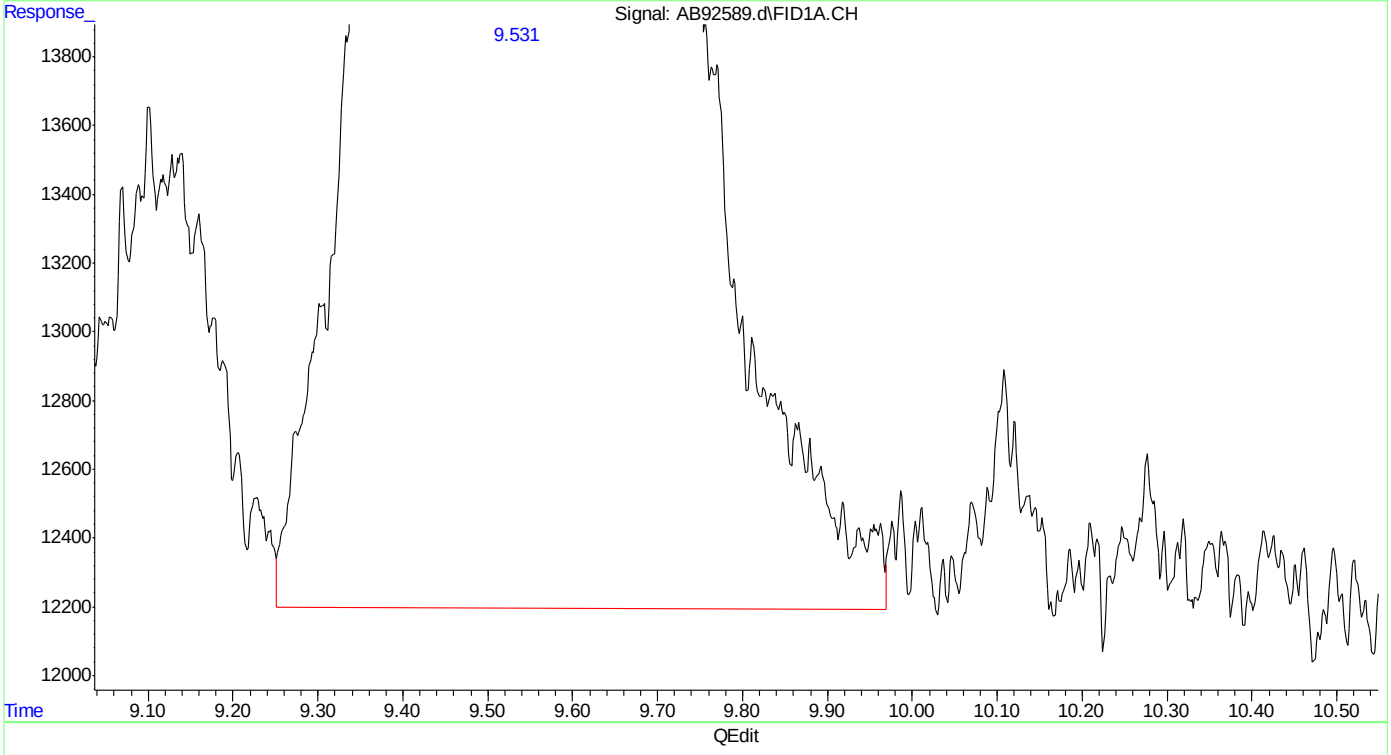
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.531min 10.401 ppb
response 2269467

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:04:23 2016

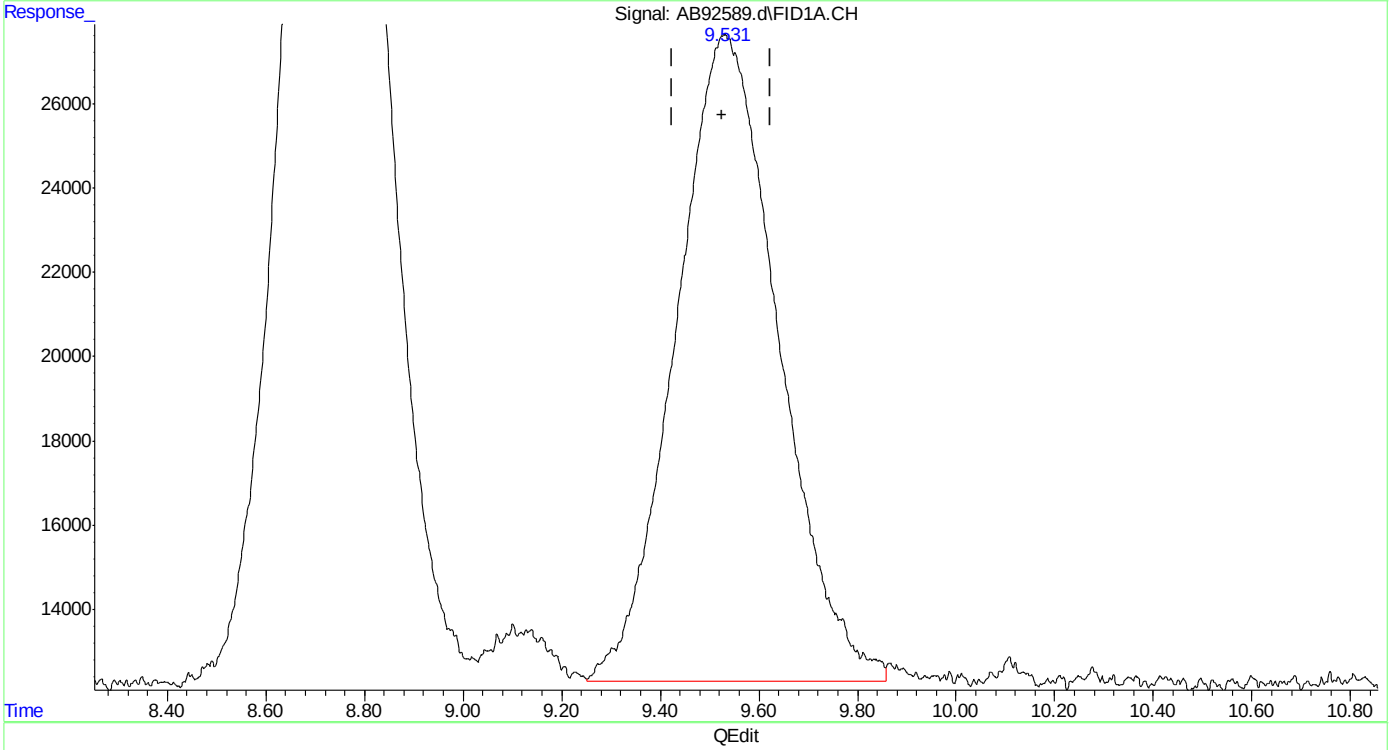
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.531min 10.126 ppb m
response 2209462

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:05:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(6) fluorobenzene (s)
15.169min 9.831 ppb
response 4348009

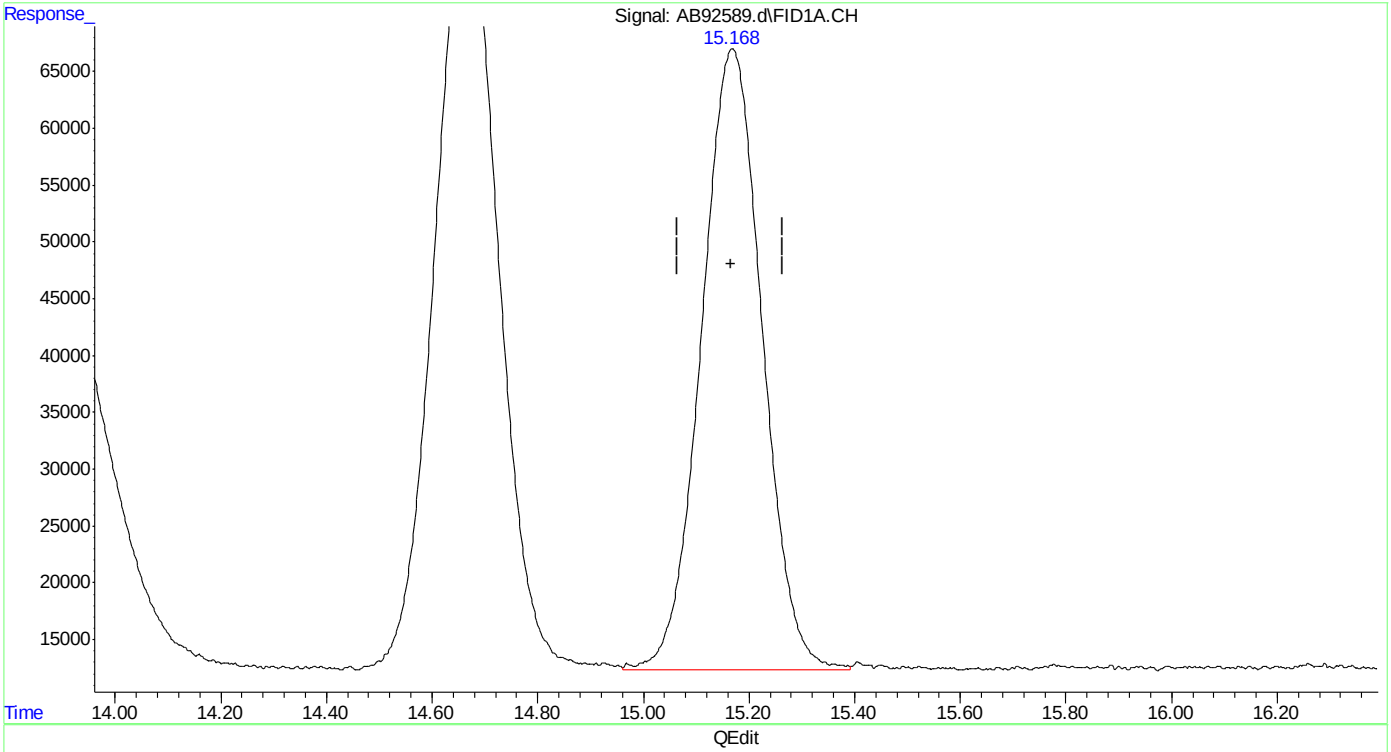
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
15.168min 9.864 ppb m
response 4362458

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:06:30 2016

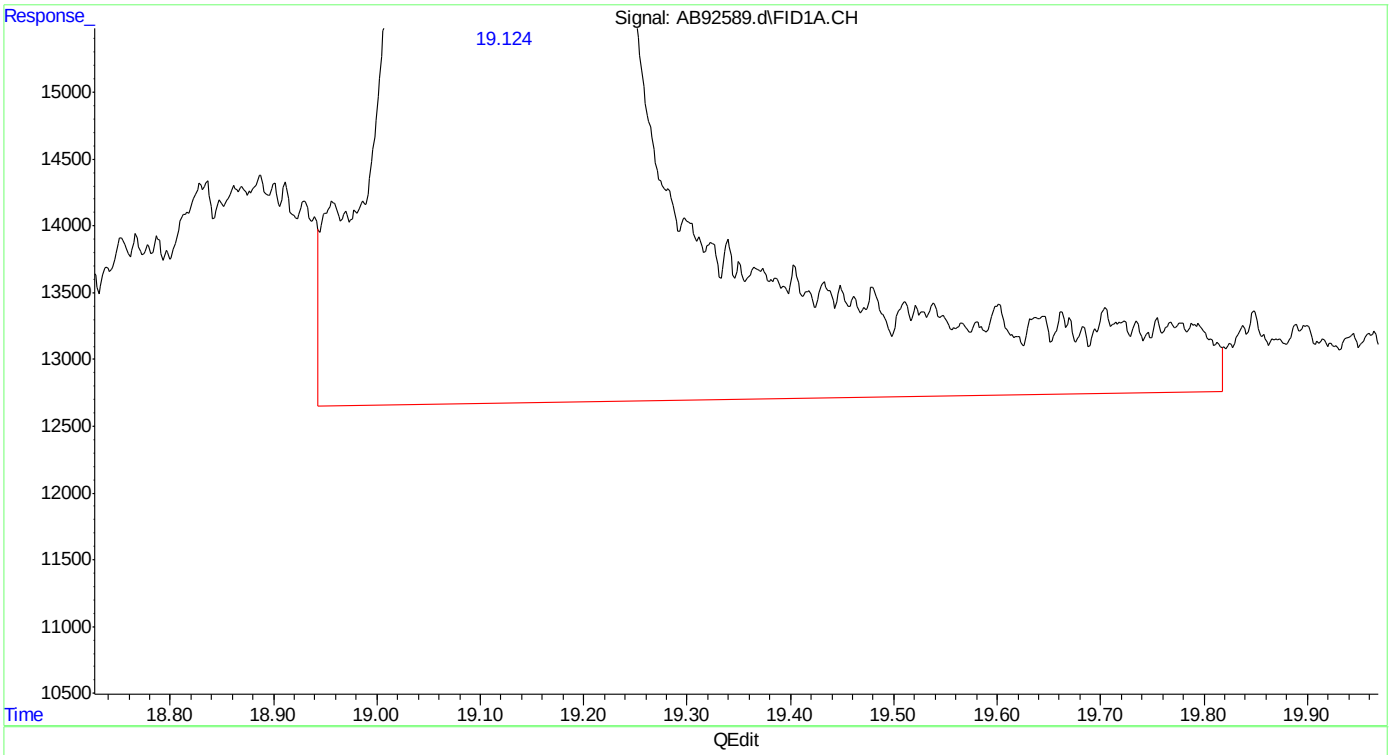
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
19.124min 10.889 ppb
response 6541207

(+) = Expected Retention Time

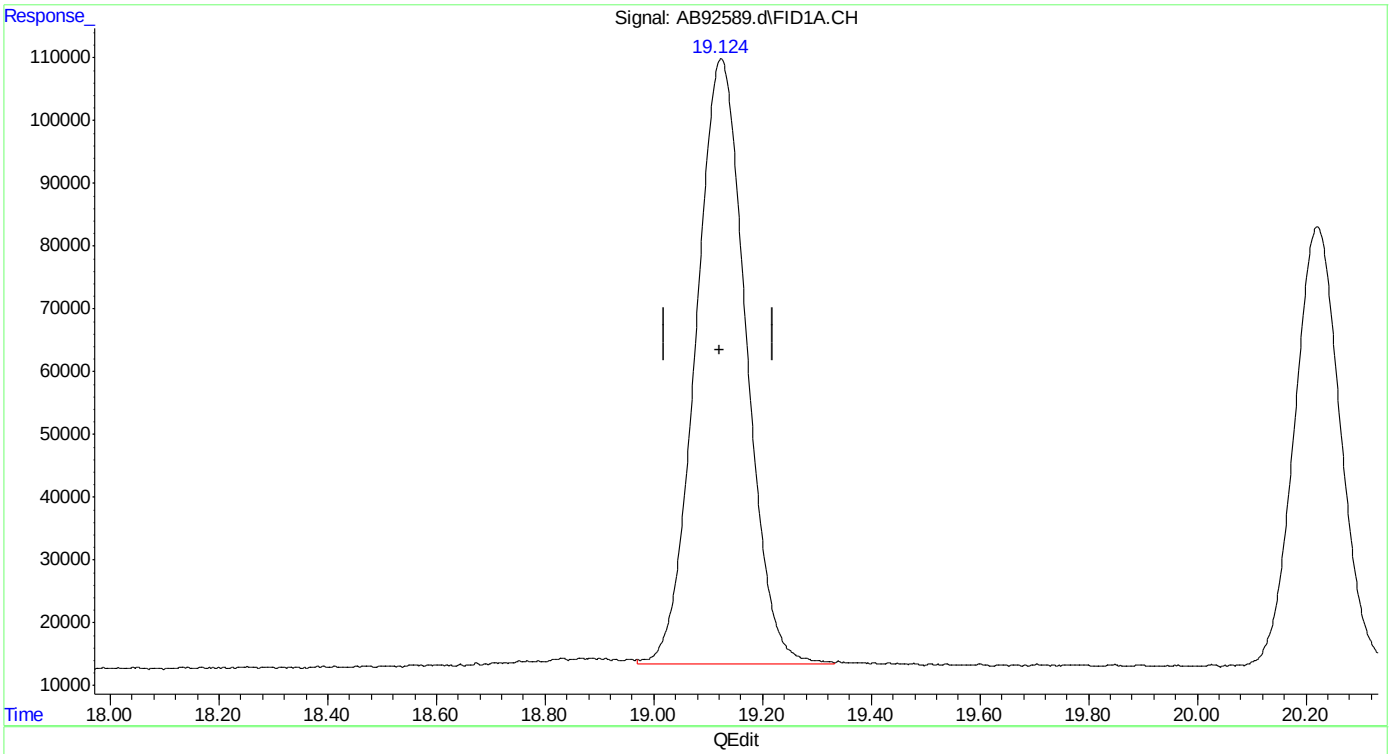
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
19.124min 10.277 ppb m
response 6173366

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:07:15 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(9) 2,3,4-trifluorotoluene (s)
20.221min 10.515 ppb
response 4271482

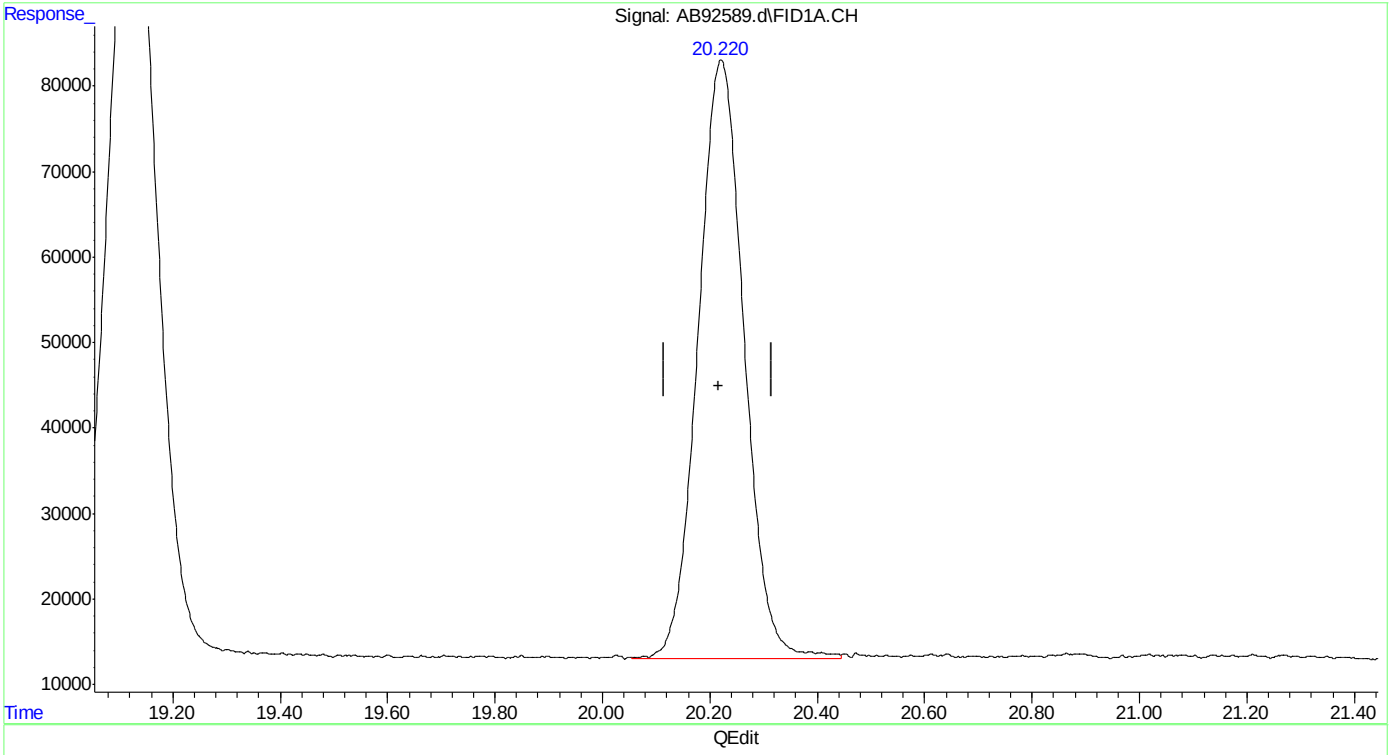
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:07:19 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
20.220min 10.238 ppb m
response 4158758

(+) = Expected Retention Time

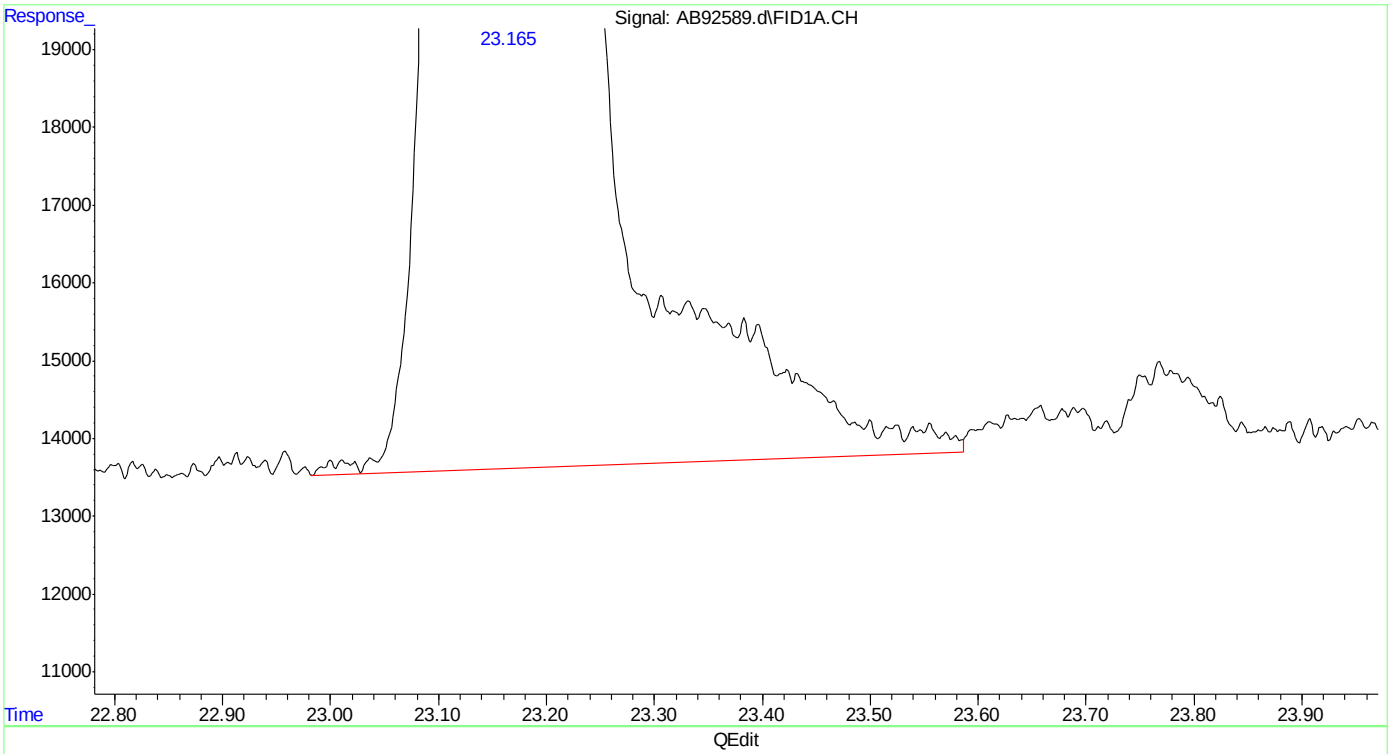
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.165min 10.584 ppb
response 7026957

(+) = Expected Retention Time

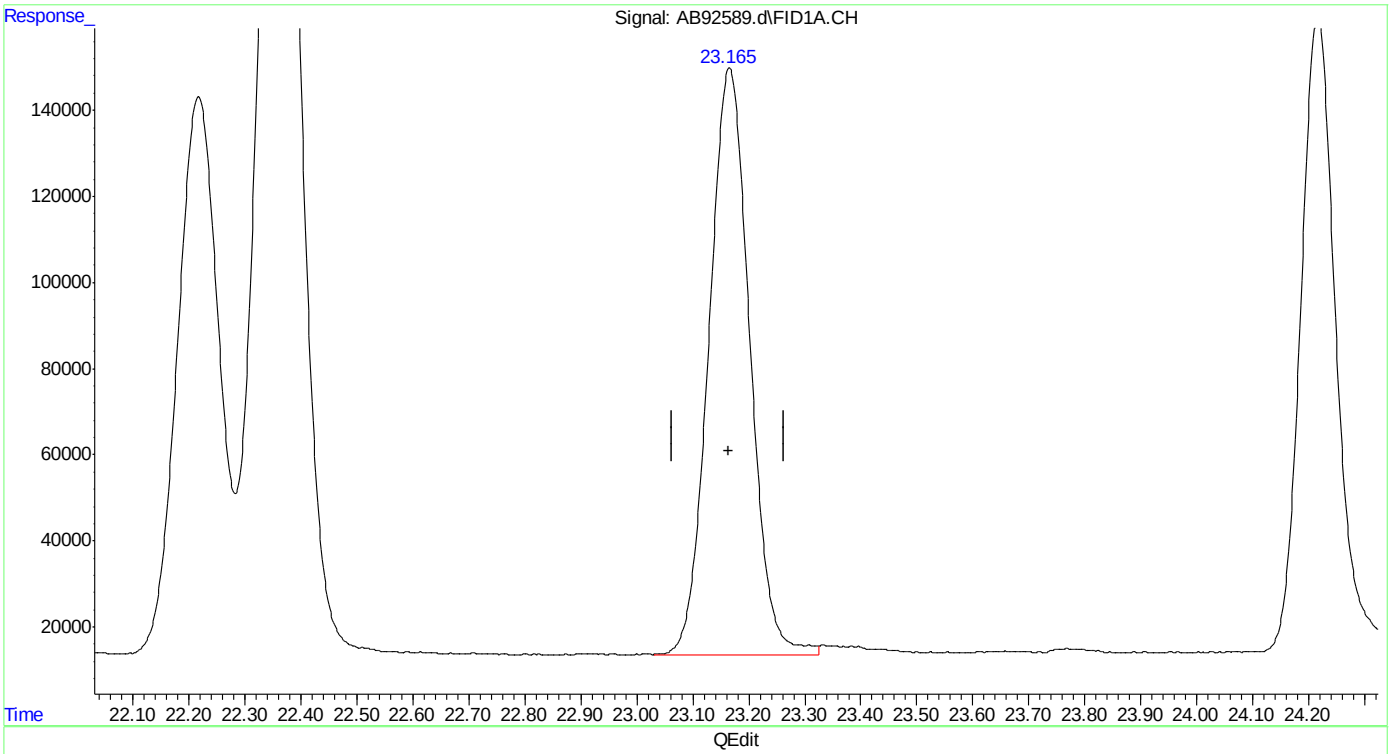
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.165min 10.392 ppb m
response 6899240

(+) = Expected Retention Time

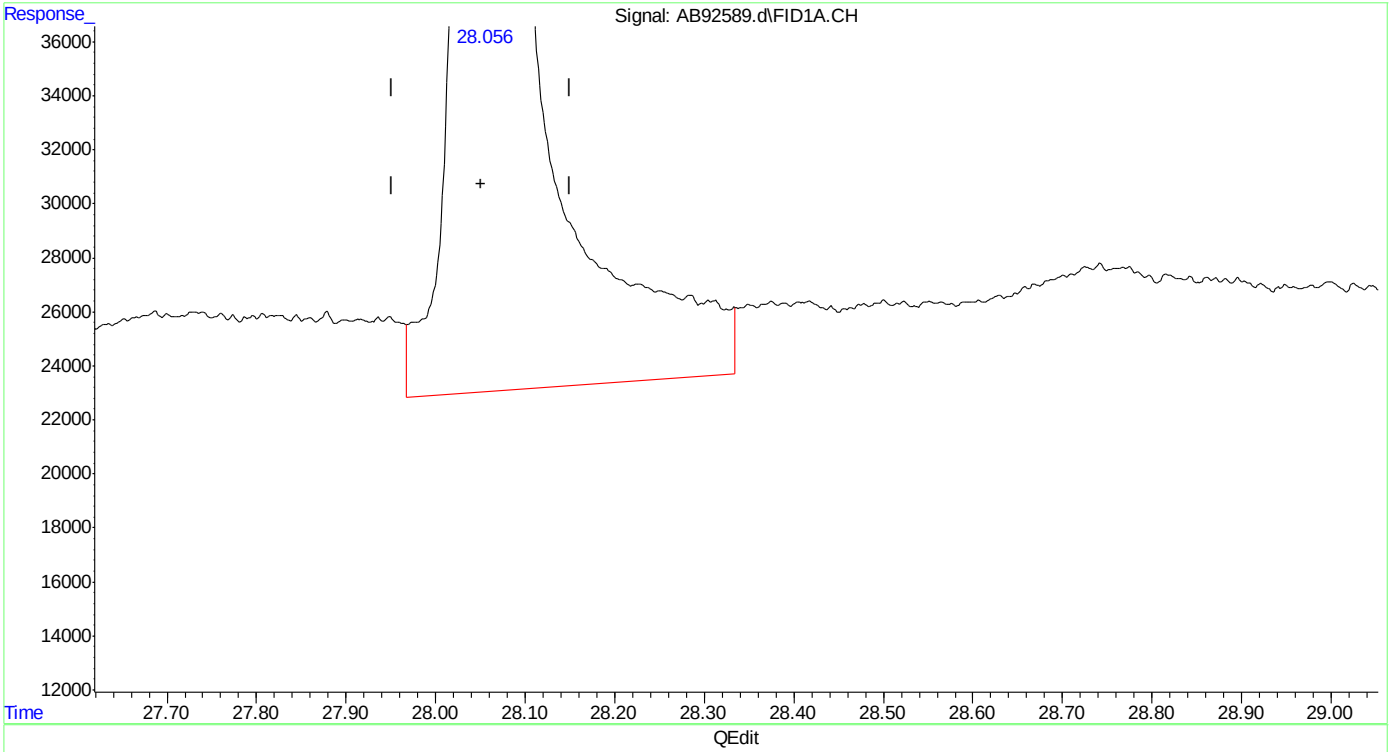
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 11:33:11
Operator  : haleyn
Sample    : ic5058-10
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene

28.057min 13.144 ppb

response 4485292

(+) = Expected Retention Time

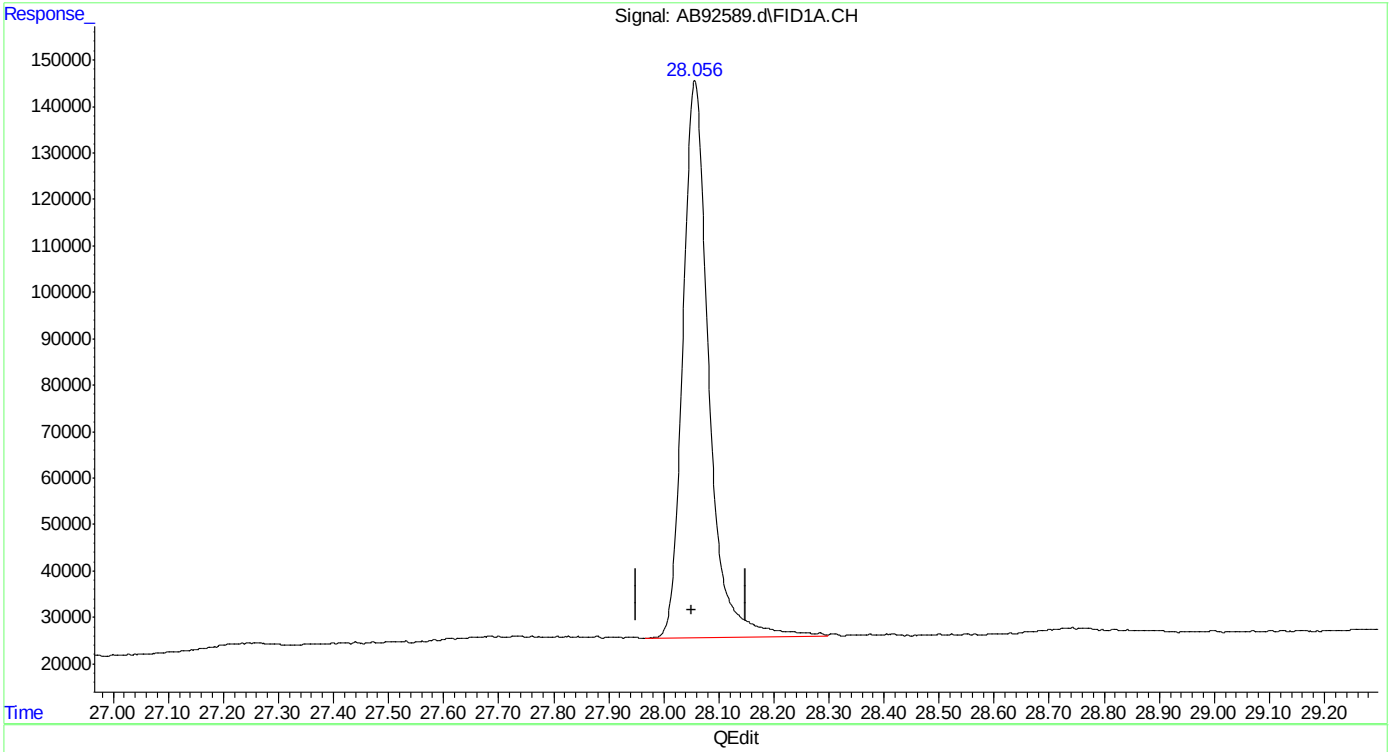
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.056min 11.504 ppb m
response 3925512

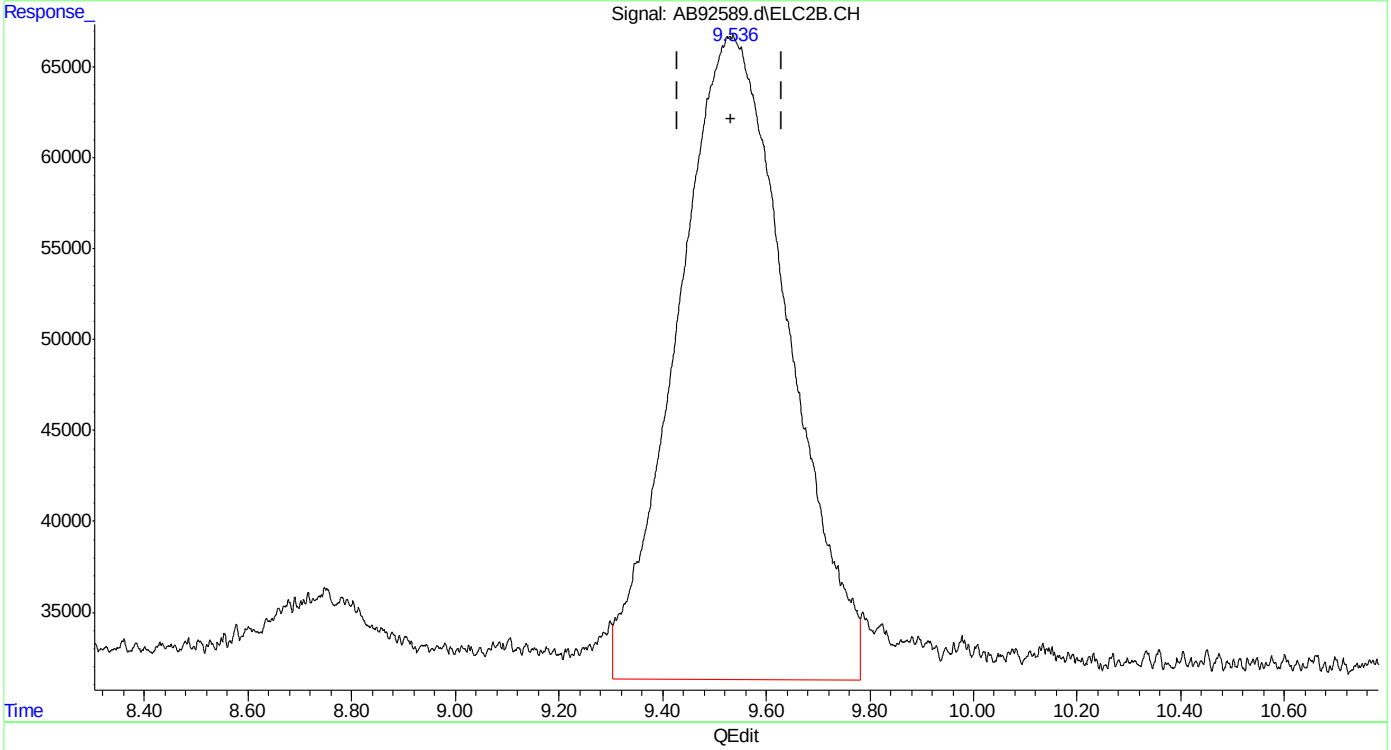
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.536min 10.190 ppb
response 5267217

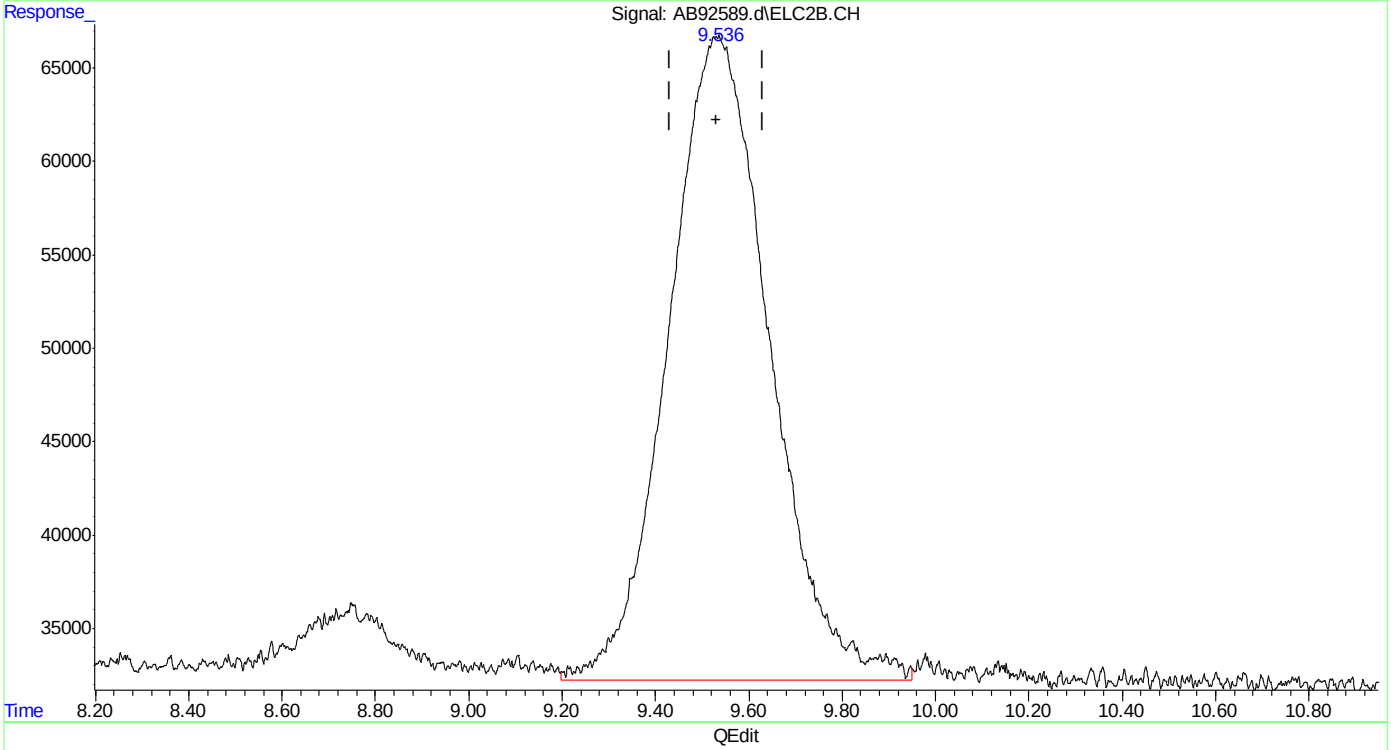
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.536min 10.043 ppb m
response 5190787

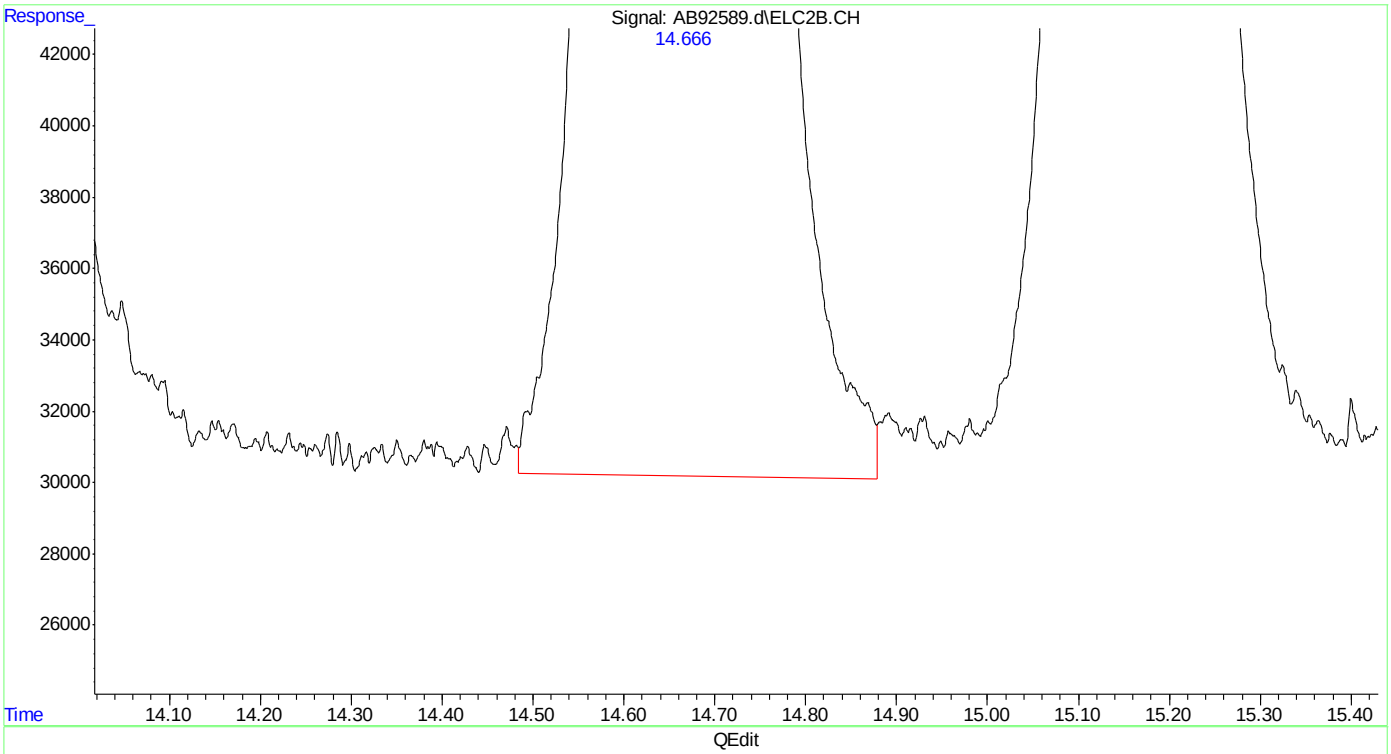
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
14.665min 9.853 ppb
response 13860278

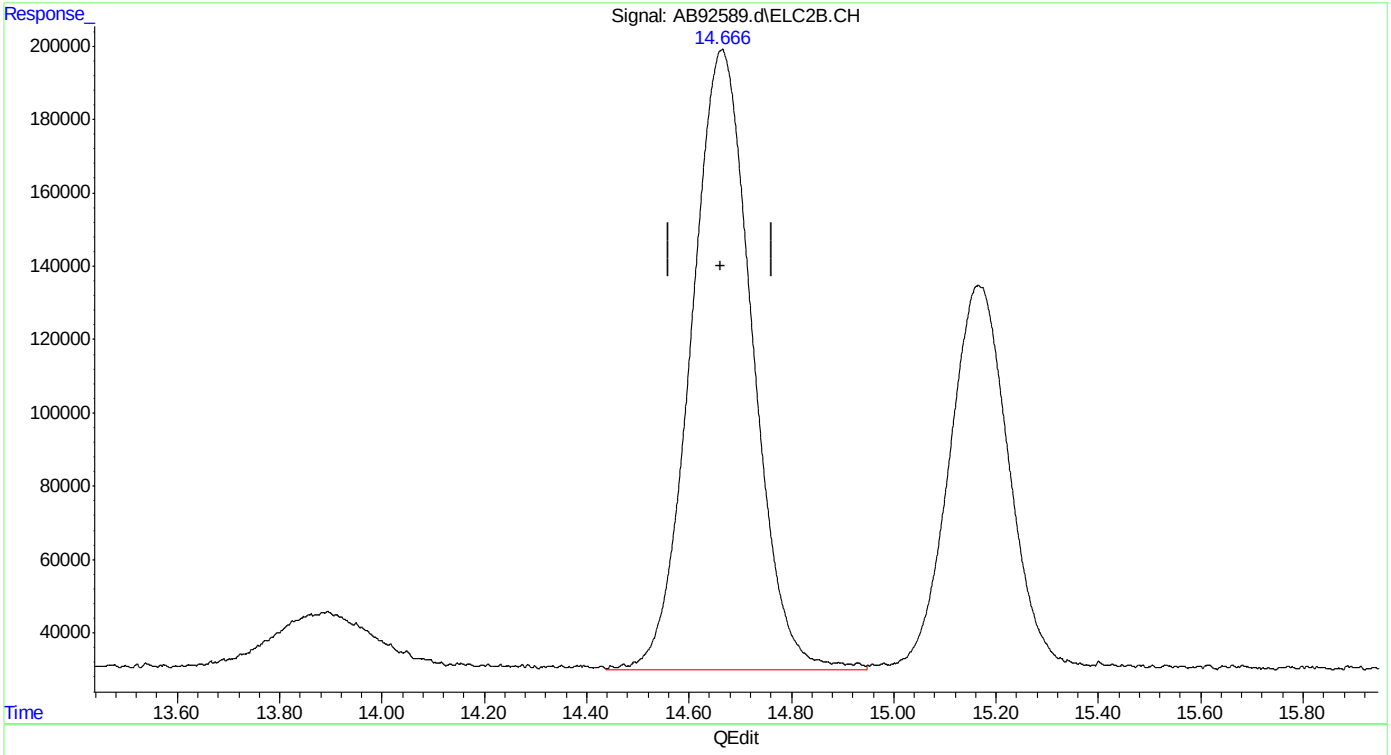
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
14.666min 9.931 ppb m
response 13970184

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:53 2016

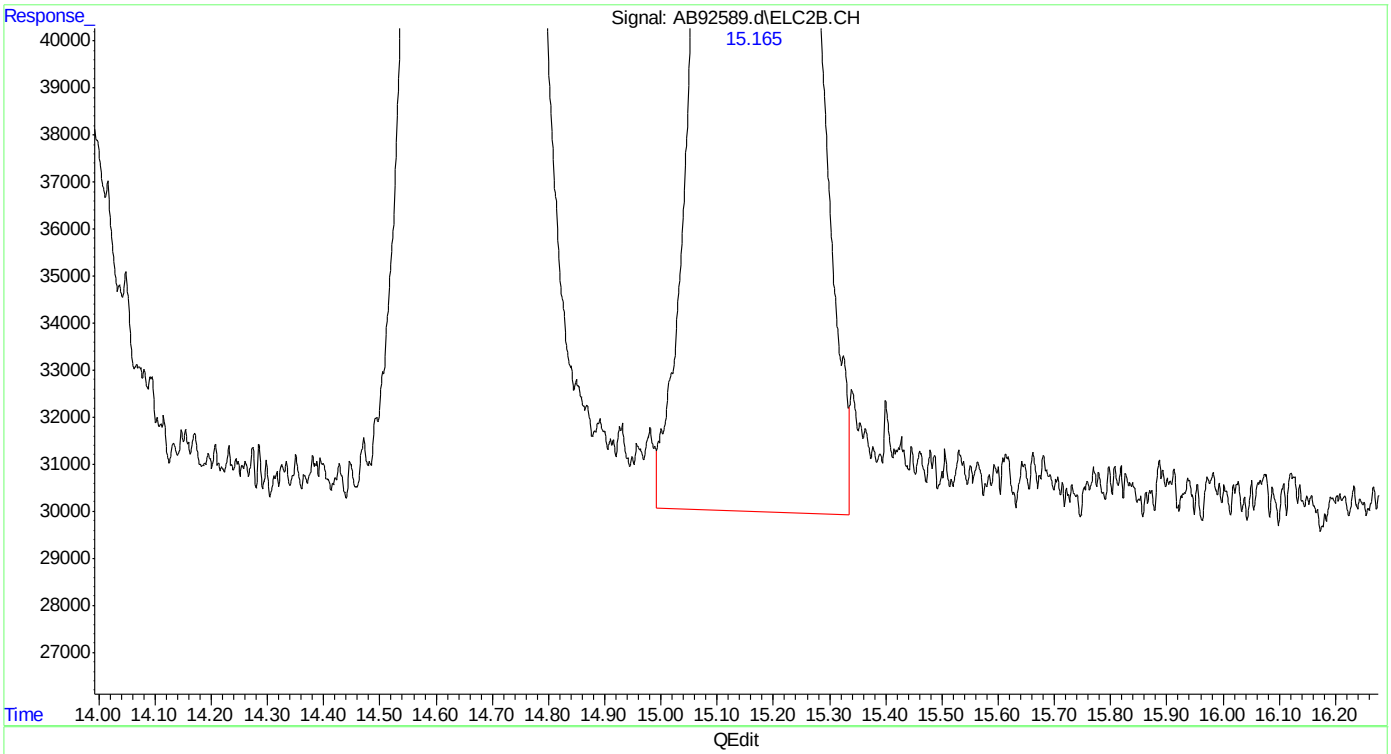
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
15.165min 9.397 ppb
response 8425578

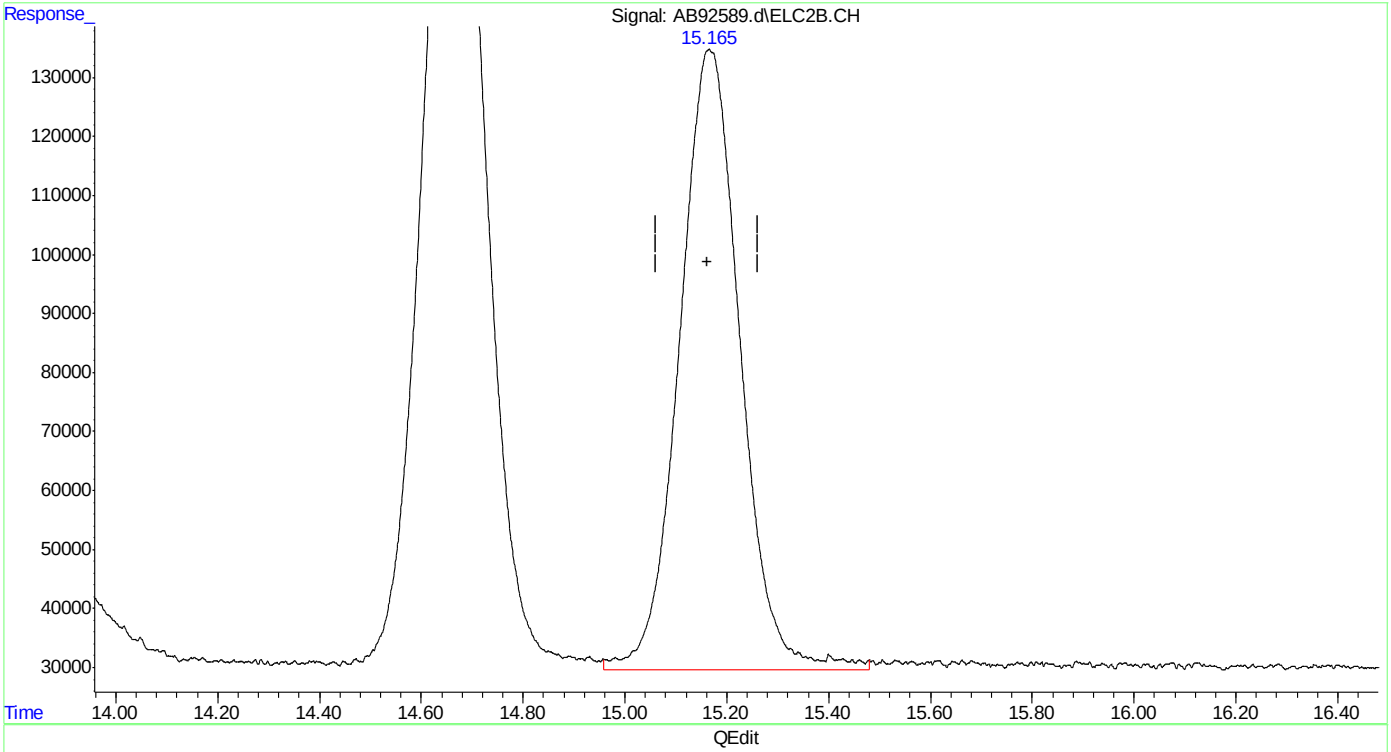
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
15.165min 9.692 ppb m
response 8690415

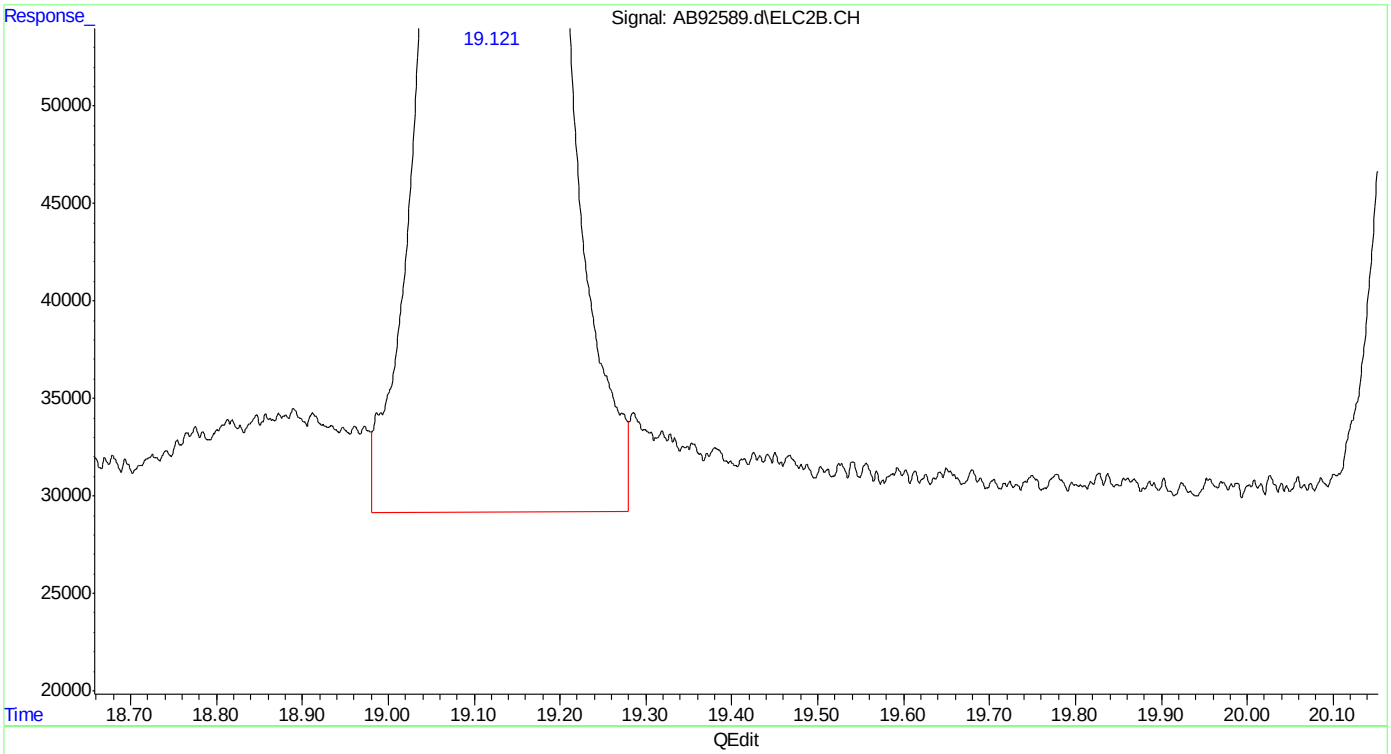
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
19.122min 10.232 ppb
response 12364517

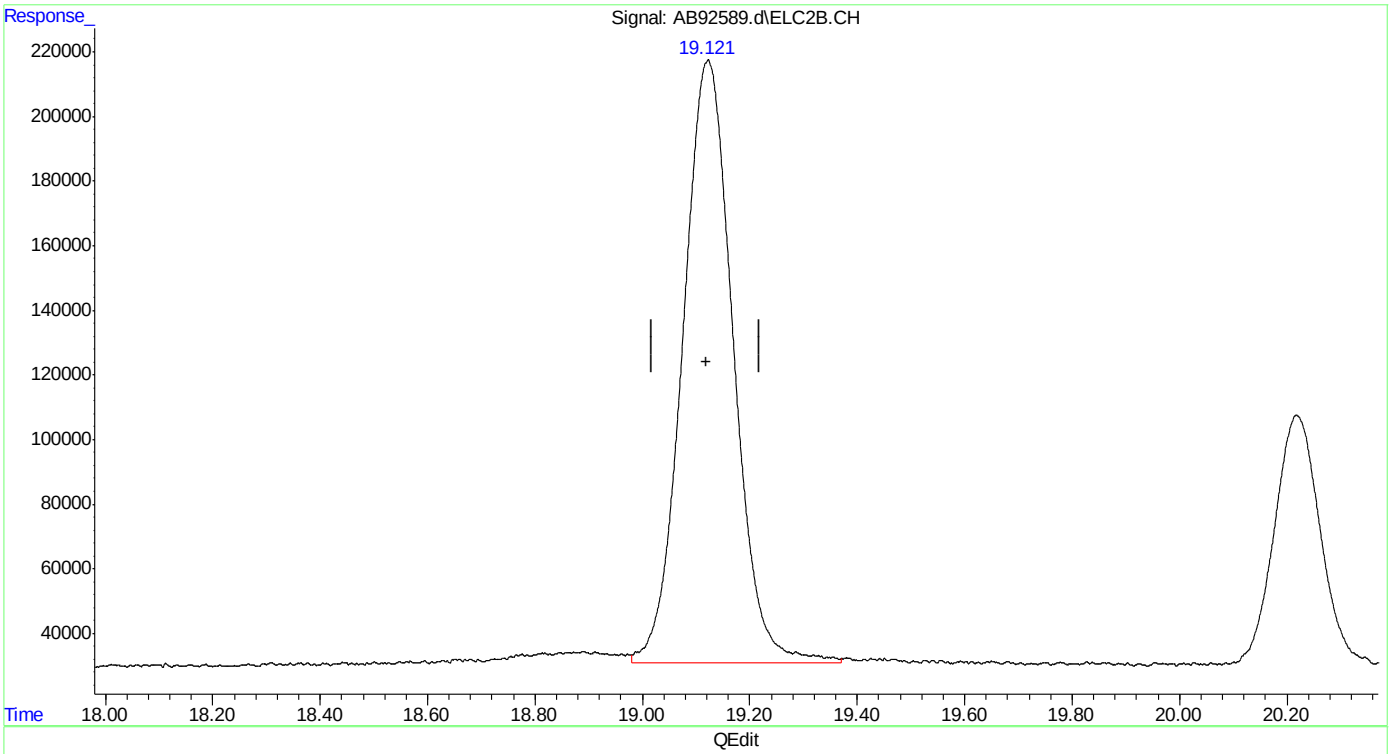
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:20 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
19.121min 10.073 ppb m
response 12172198

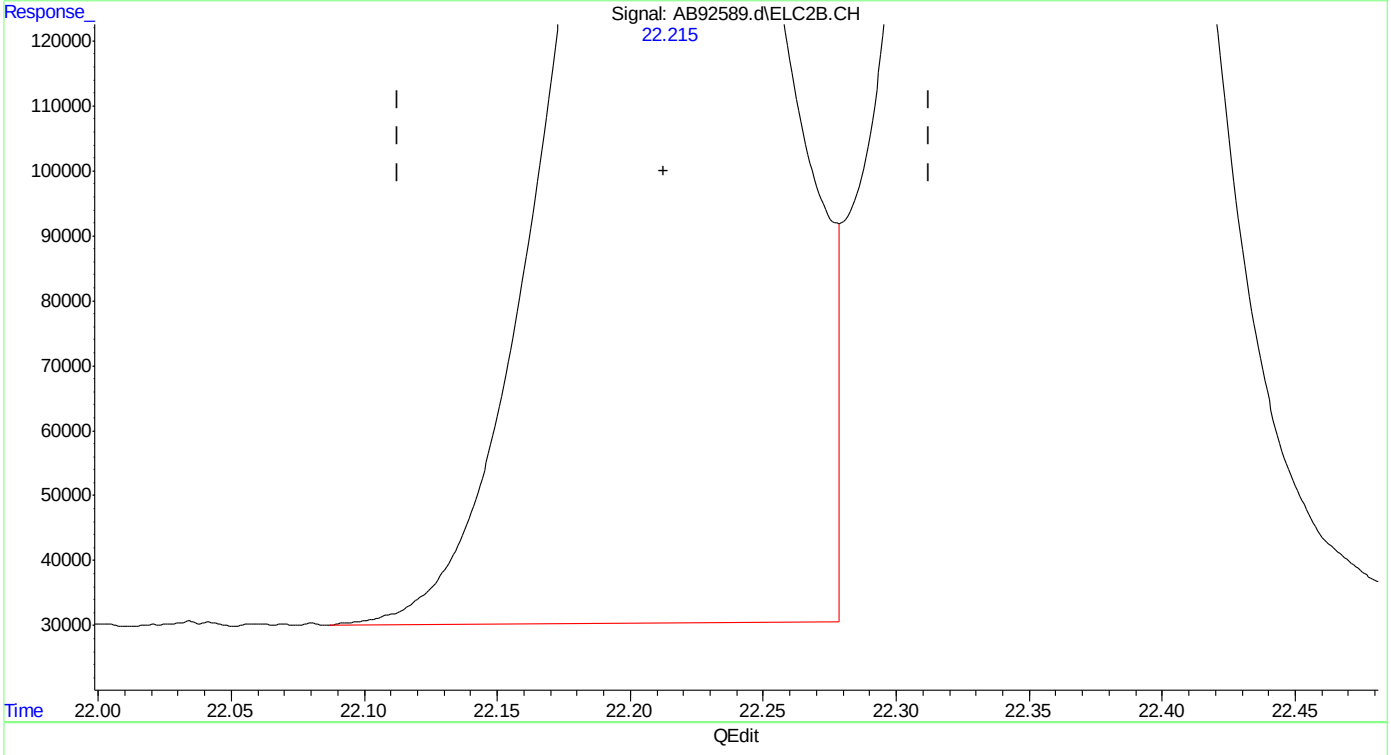
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2
22.215min 9.903 ppb
response 9888665

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:43 2016

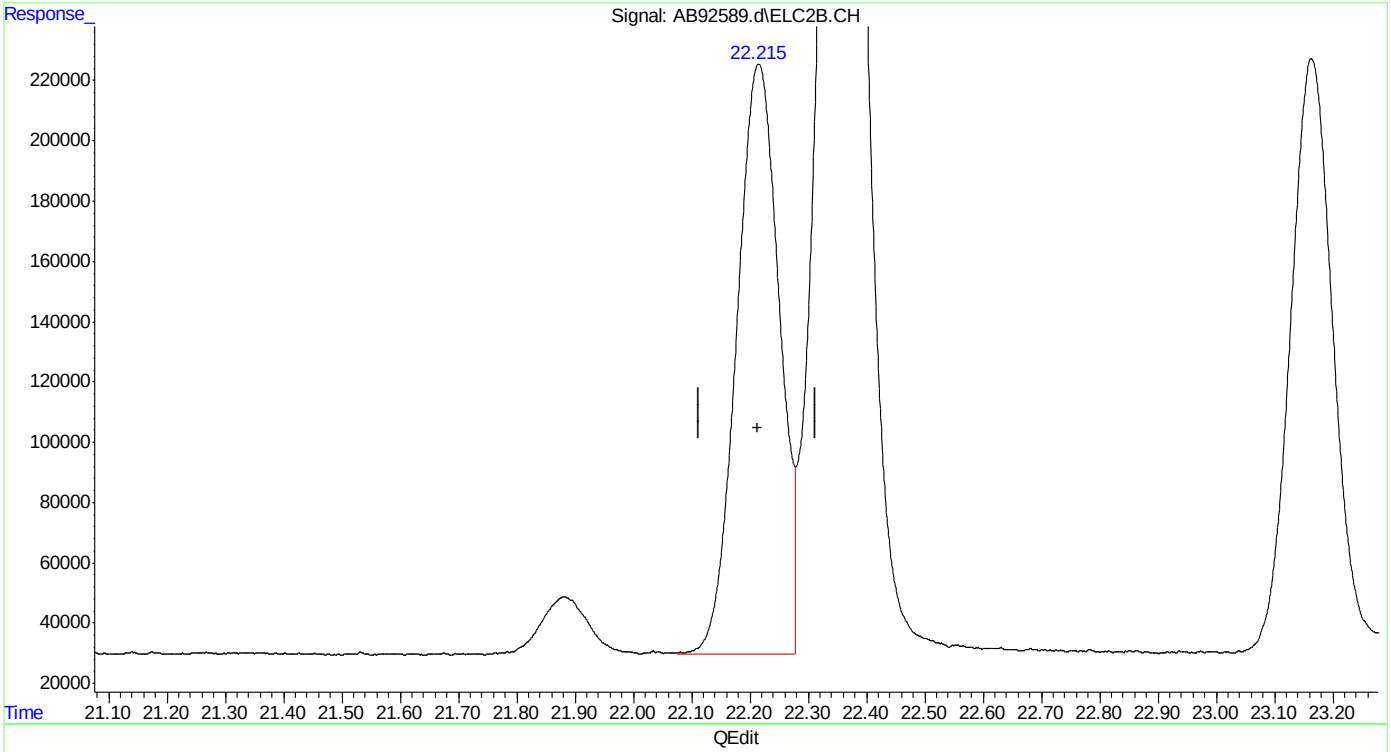
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2
22.215min 9.999 ppb m
response 9984696

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:52 2016

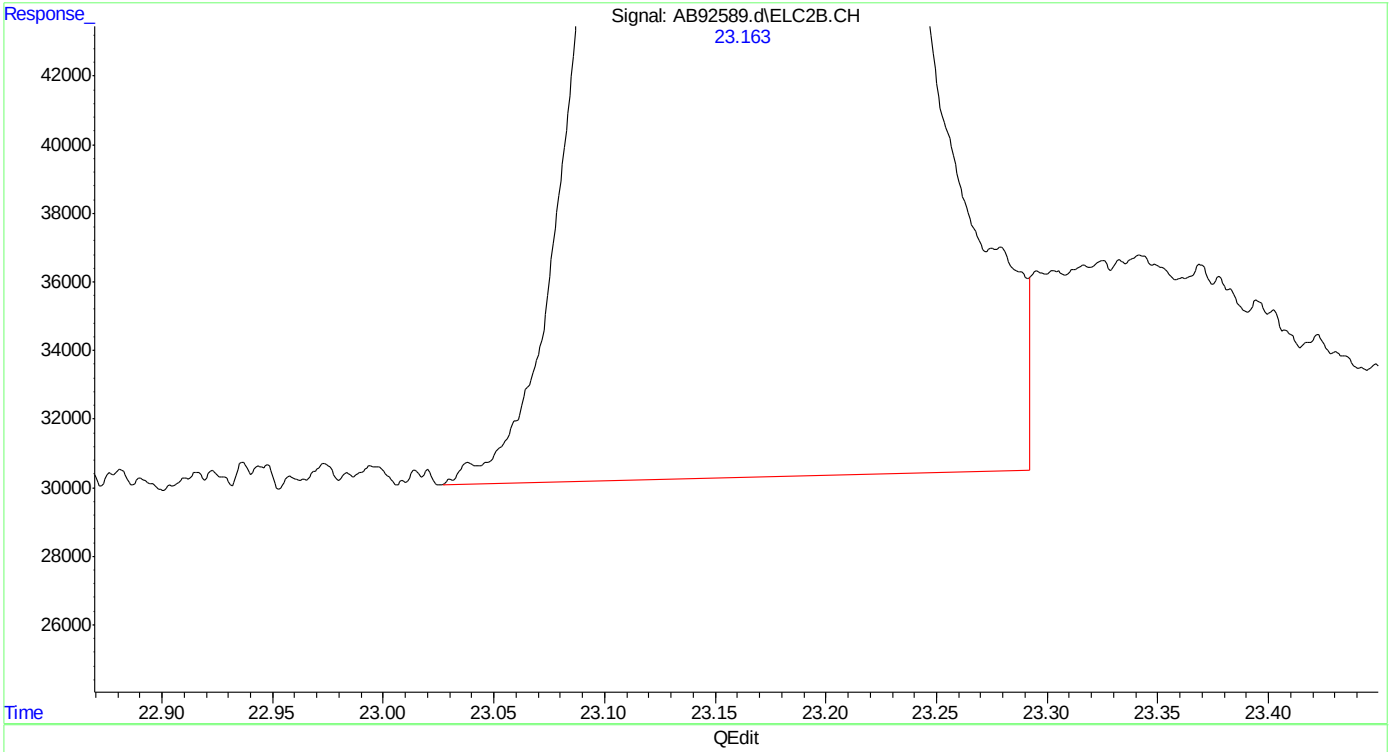
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
23.163min 9.905 ppb
response 10037806

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:57 2016

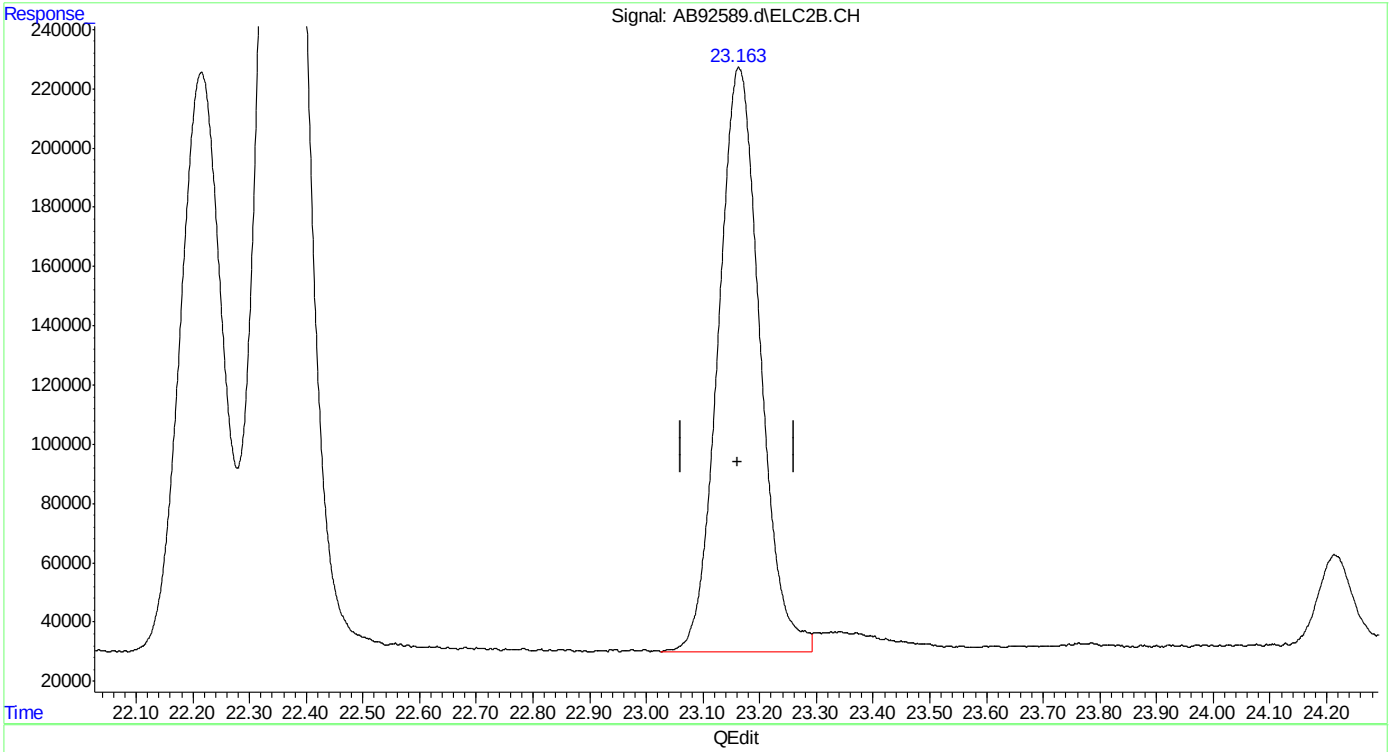
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
23.163min 9.945 ppb m
response 10078357

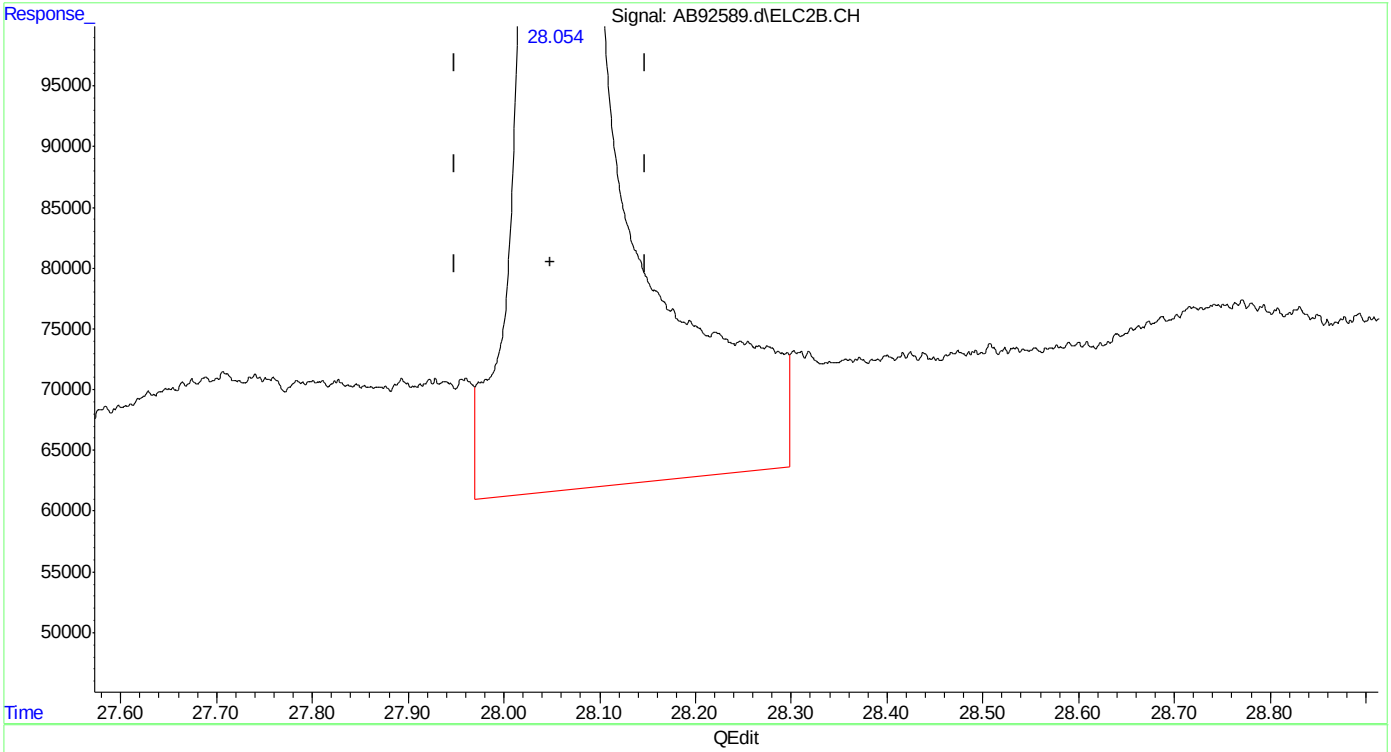
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:12:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.054min 13.694 ppb
response 10317491

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:12:17 2016

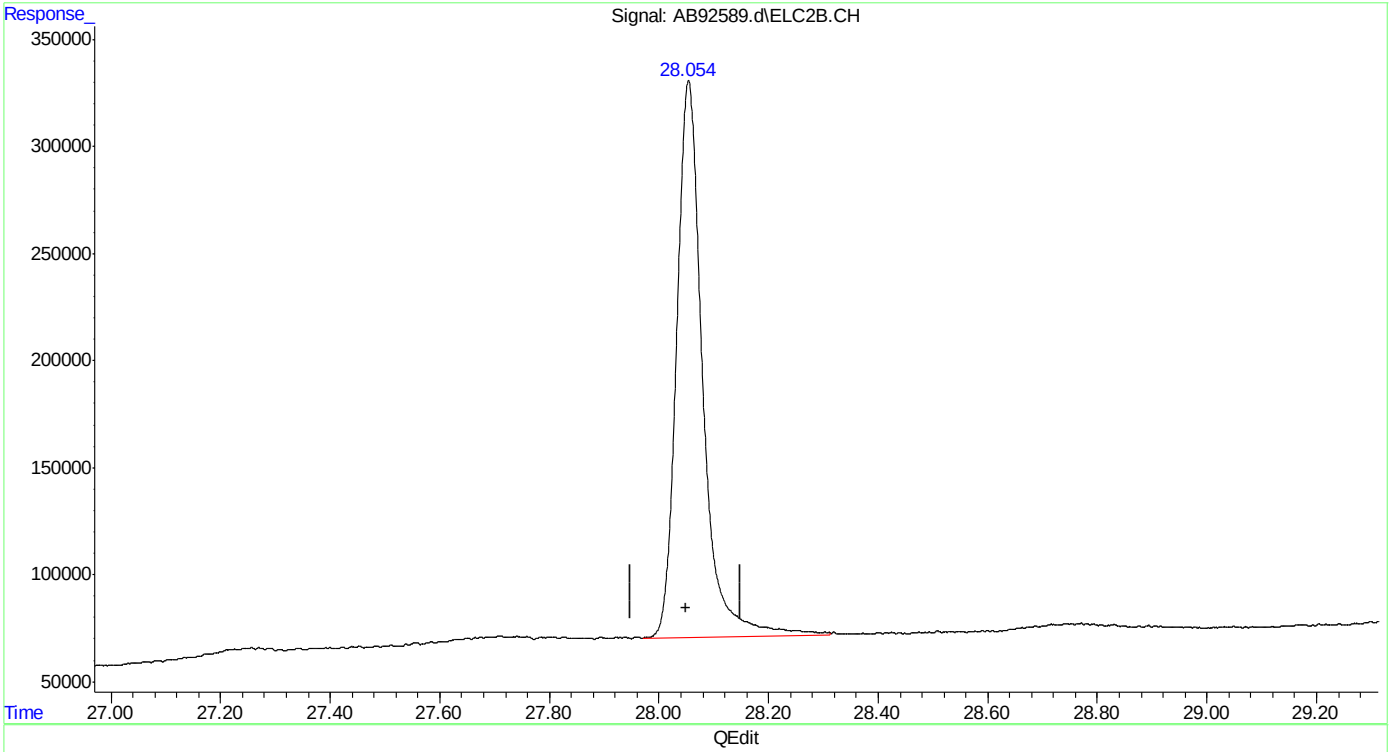
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.054min 11.424 ppb m
response 8606987

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:12:34 2016

SGS ACCUTEST MC45611

AB92590.D

Manual Integrations
APPROVED
(compounds with "m" flag)

Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:21:11 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	15.172	2200101	5.009 ppb	m
Spiked Amount 50.000		Recovery =	10.02%	
9) s 2,3,4-trifluorotoluene	20.226	2067831	5.031 ppb	
Spiked Amount 50.000		Recovery =	10.06%	
25) s fluorobenzene #2	15.171	4291225	4.861 ppb	
Spiked Amount 50.000		Recovery =	9.72%	
27) s 2,3,4-trifluorotoluen...	20.223	2393092	5.071 ppb	m
Spiked Amount 50.000		Recovery =	10.14%	
Target Compounds				
1) h rt5.5-7	6.370	1948123	5.386 ppb	m
2) h rt7/10	8.710	2254884	5.437 ppb	m
3) mtbe	9.545	1116791	5.086 ppb	m
4) h rt10/13	13.890	2659091	5.762 ppb	m
5) benzene	14.667	2826290	5.096 ppb	
8) toluene	19.126	3128391	5.137 ppb	m
11) h rt20/25	21.900	3202956	5.325 ppb	m
13) ethylbenzene	22.220	3304644	5.084 ppb	m
14) m,p-xylene	22.364	6912378	10.236 ppb	
15) o-xylene	23.168	3460195	5.112 ppb	m
16) h decane	24.230	3274046	5.339 ppb	m
17) t 1,3,5-trimethylbenzene	24.595	3652478	5.118 ppb	
18) 1,2,4-trimethylbenzene	25.113	3525706	5.198 ppb	
19) h butylcyclohexane	25.263	3520100	5.375 ppb	m
20) naphthalene	28.062	1936540	5.278 ppb	m
23) mtbe #2	9.529	2603992	5.027 ppb	m
24) benzene #2	14.666	7007038	4.998 ppb	
26) toluene #2	19.125	6163190	5.082 ppb	m
28) ethylbenzene #2	22.219	4988642	4.996 ppb	m
29) m,p-xylene #2	22.362	12375835	10.146 ppb	
30) o-xylene #2	23.167	5064076	5.011 ppb	
31) t 1,3,5-trimethylbenzen...	24.593	7113412	4.944 ppb	
32) 1,2,4-trimethylbenzen...	25.110	5356131	5.075 ppb	m
33) naphthalene #2	28.059	4141853	5.132 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	5353469	5.044 ppb	m

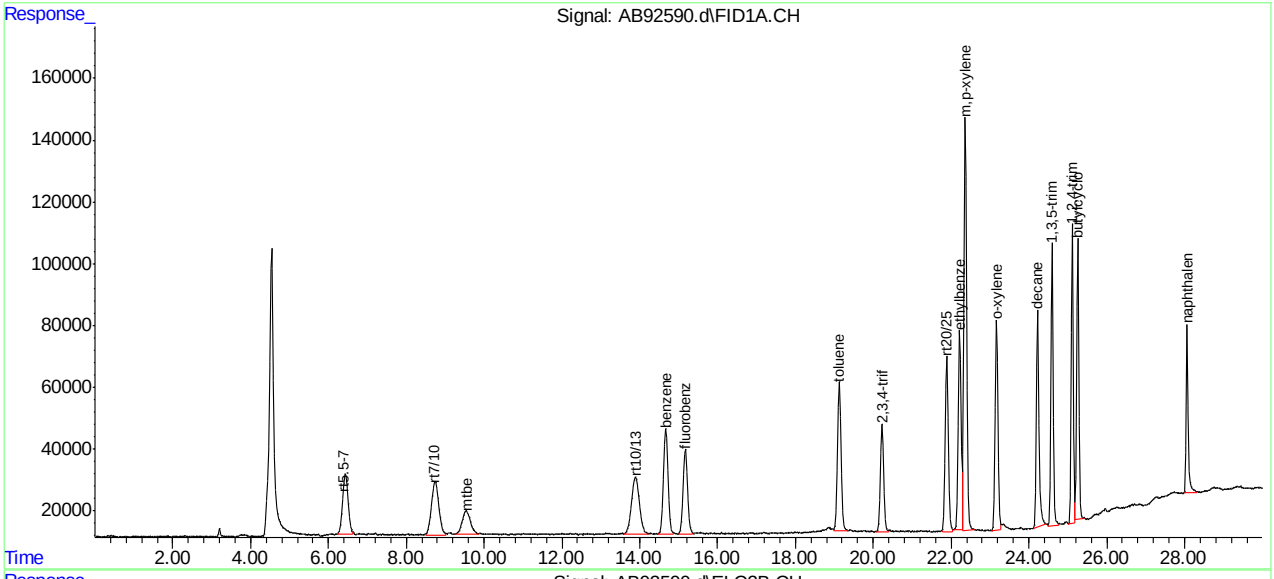
(f)=RT Delta > 1/2 Window (m)=manual int.

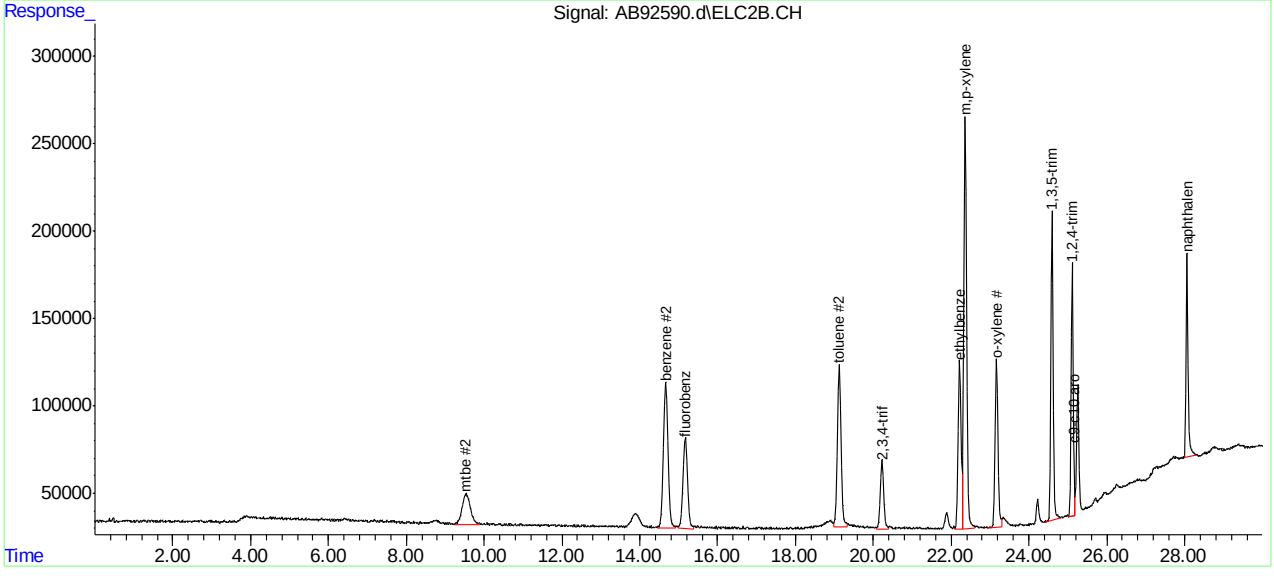
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:21:11 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





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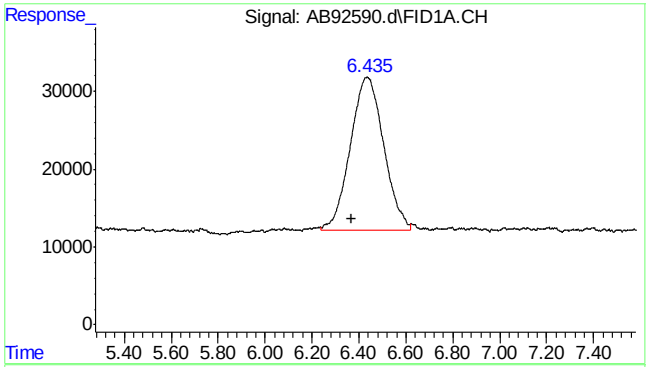
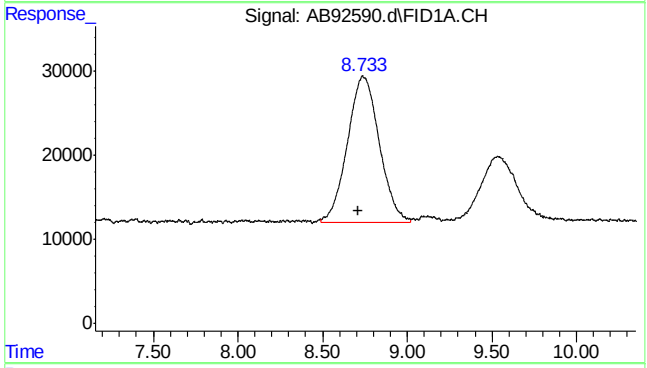


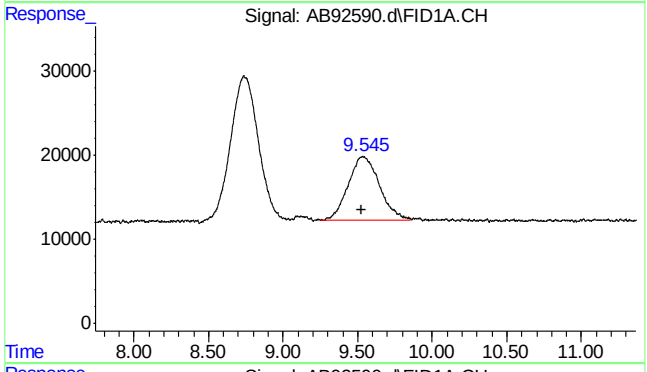
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 1948123
Conc: 5.39 ppb m



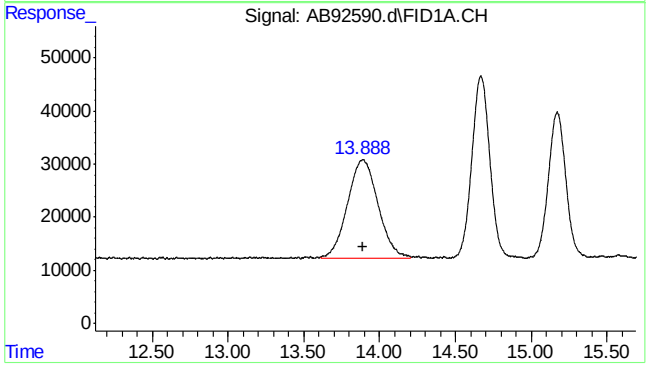
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 2254884
Conc: 5.44 ppb m



#3 mtbe

R.T.: 9.545 min
Delta R.T.: 0.014 min
Response: 1116791
Conc: 5.09 ppb m



#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 2659091
Conc: 5.76 ppb m

7.5.7

7

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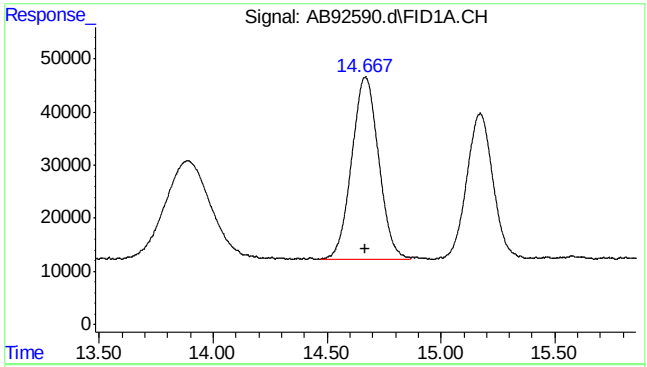
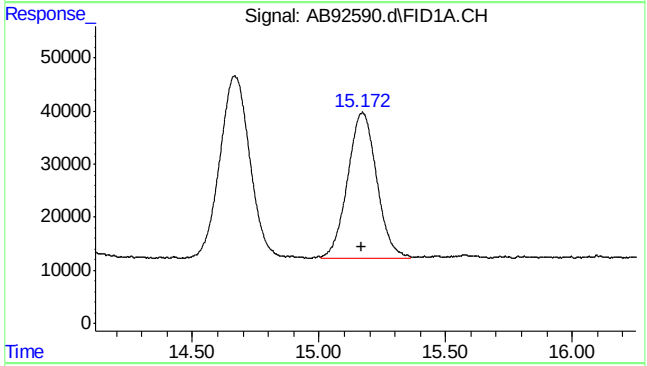


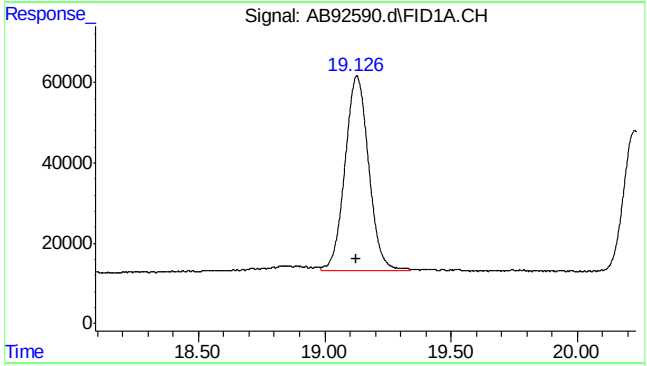
#5 benzene

R.T.: 14.667 min
Delta R.T.: 0.002 min
Response: 2826290
Conc: 5.10 ppb



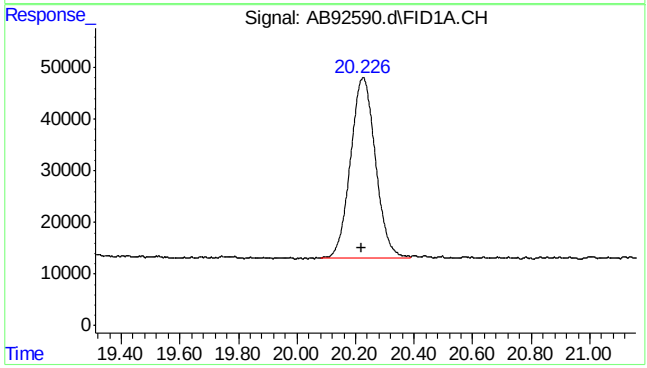
#6 fluorobenzene

R.T.: 15.172 min
Delta R.T.: 0.004 min
Response: 2200101
Conc: 5.01 ppb m



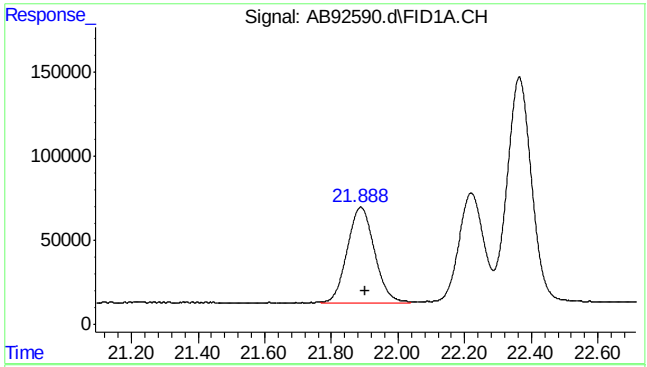
#8 toluene

R.T.: 19.126 min
Delta R.T.: 0.002 min
Response: 3128391
Conc: 5.14 ppb m



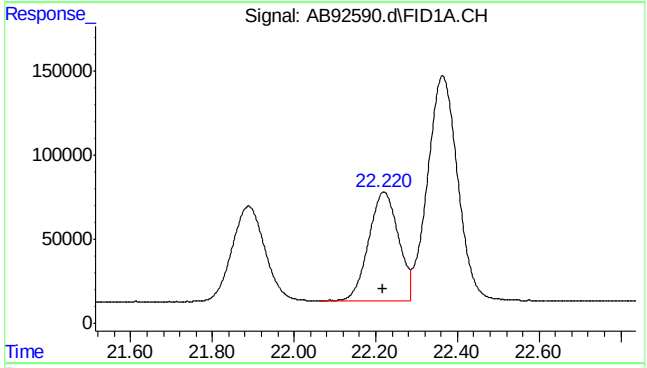
#9 2,3,4-trifluorotoluene

R.T.: 20.226 min
Delta R.T.: 0.006 min
Response: 2067831
Conc: 5.03 ppb



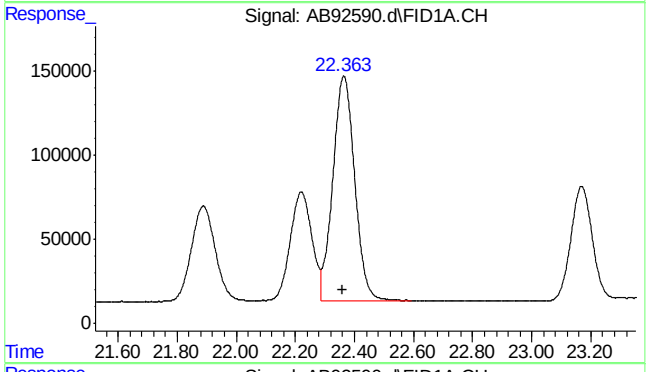
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 3202956
Conc: 5.33 ppb m



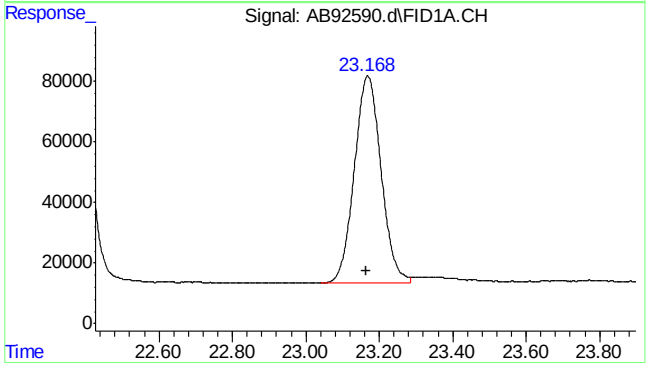
#13 ethylbenzene

R.T.: 22.220 min
Delta R.T.: 0.003 min
Response: 3304644
Conc: 5.08 ppb m



#14 m,p-xylene

R.T.: 22.364 min
Delta R.T.: 0.003 min
Response: 6912378
Conc: 10.24 ppb



#15 o-xylene

R.T.: 23.168 min
Delta R.T.: 0.003 min
Response: 3460195
Conc: 5.11 ppb m

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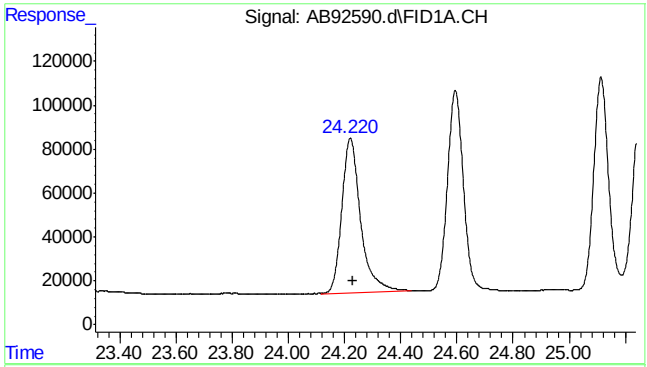
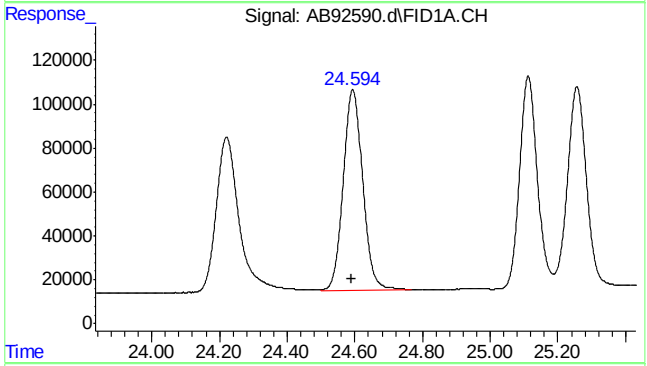


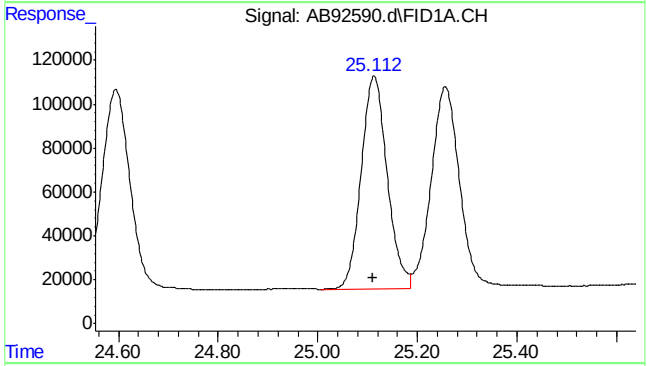
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 3274046
Conc: 5.34 ppb m



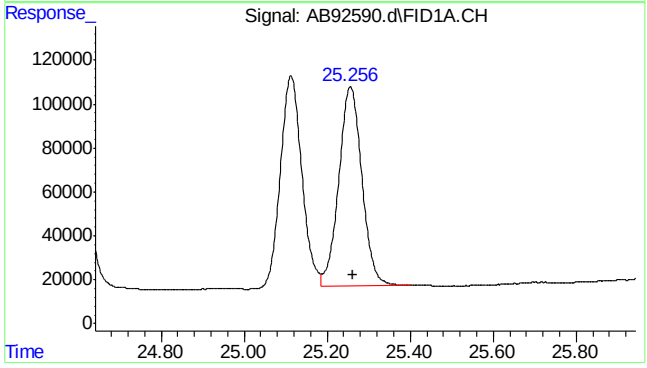
#17 1,3,5-trimethylbenzene

R.T.: 24.595 min
Delta R.T.: 0.003 min
Response: 3652478
Conc: 5.12 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.113 min
Delta R.T.: 0.003 min
Response: 3525706
Conc: 5.20 ppb



#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 3520100
Conc: 5.38 ppb m

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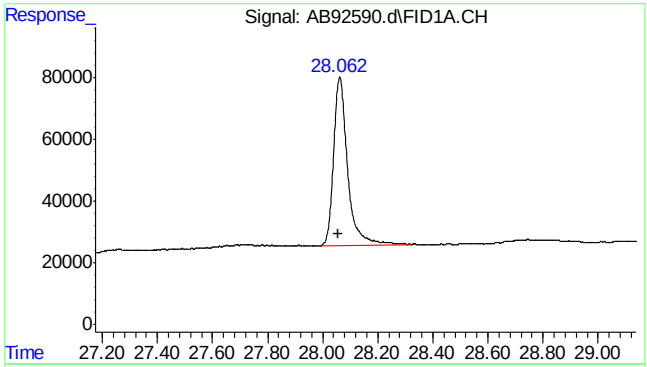
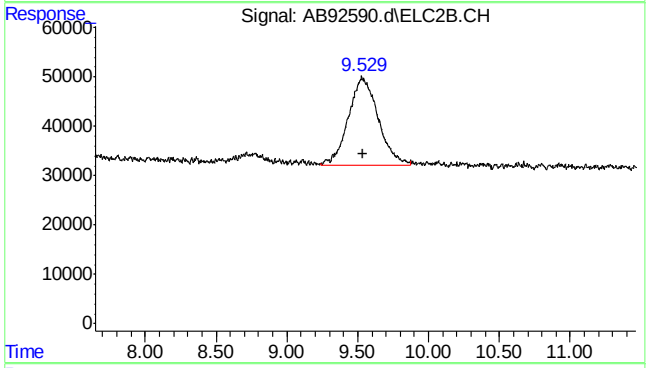


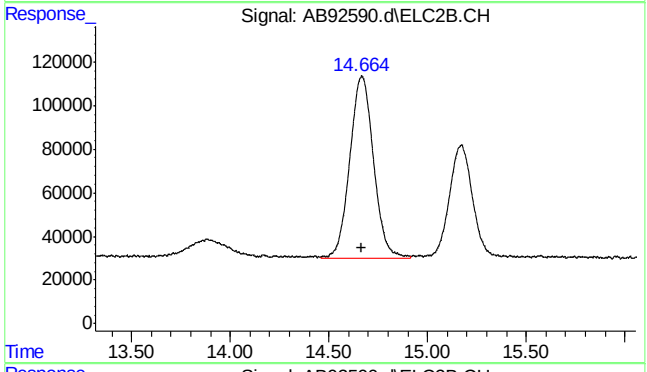
#20 naphthalene

R.T.: 28.062 min
Delta R.T.: 0.006 min
Response: 1936540
Conc: 5.28 ppb m



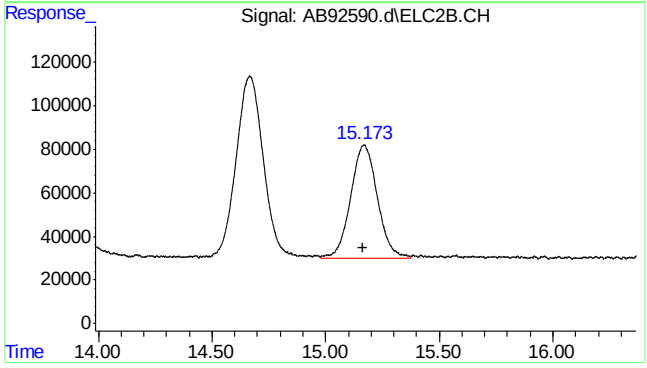
#23 mtbe #2

R.T.: 9.529 min
Delta R.T.: -0.007 min
Response: 2603992
Conc: 5.03 ppb m



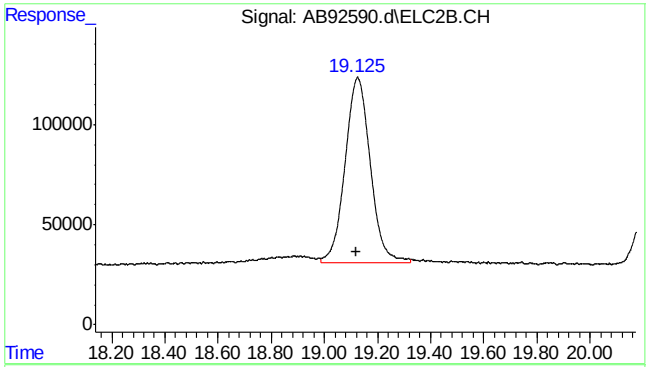
#24 benzene #2

R.T.: 14.666 min
Delta R.T.: 0.000 min
Response: 7007038
Conc: 5.00 ppb



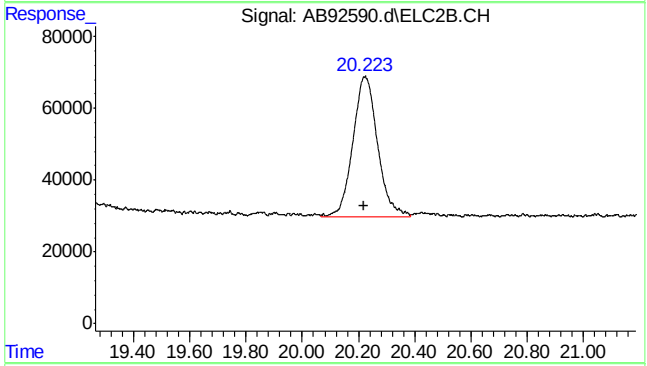
#25 fluorobenzene #2

R.T.: 15.171 min
Delta R.T.: 0.006 min
Response: 4291225
Conc: 4.86 ppb



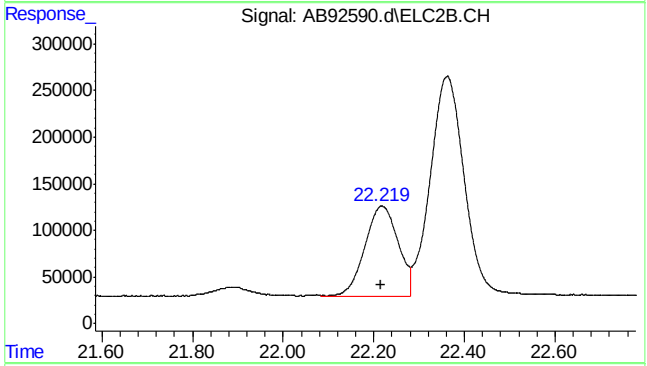
#26 toluene #2

R.T.: 19.125 min
Delta R.T.: 0.004 min
Response: 6163190
Conc: 5.08 ppb m



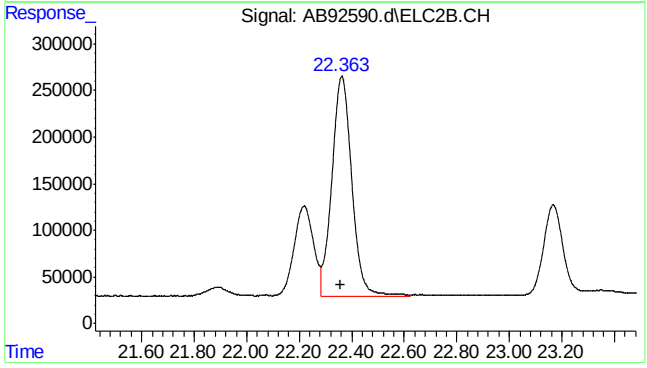
#27 2,3,4-trifluorotoluene #2

R.T.: 20.223 min
Delta R.T.: 0.005 min
Response: 2393092
Conc: 5.07 ppb m



#28 ethylbenzene #2

R.T.: 22.219 min
Delta R.T.: 0.004 min
Response: 4988642
Conc: 5.00 ppb m



#29 m,p-xylene #2

R.T.: 22.362 min
Delta R.T.: 0.004 min
Response: 12375835
Conc: 10.15 ppb

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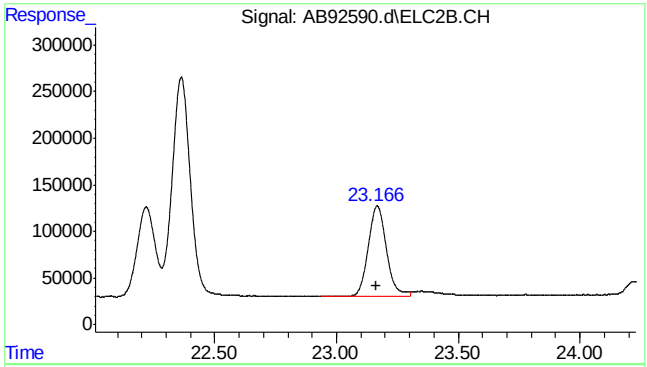
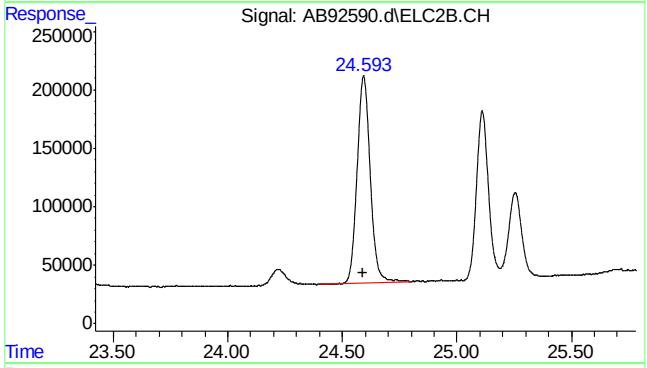


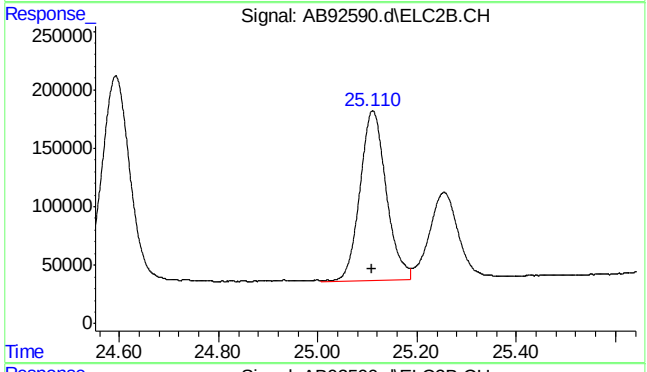
#30 o-xylene #2

R.T.: 23.167 min
Delta R.T.: 0.004 min
Response: 5064076
Conc: 5.01 ppb



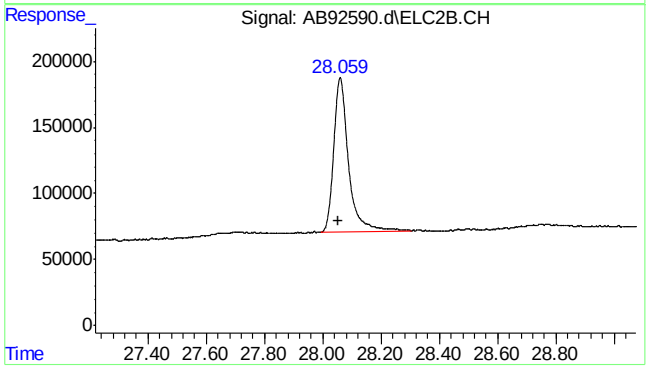
#31 1,3,5-trimethylbenzene #2

R.T.: 24.593 min
Delta R.T.: 0.003 min
Response: 7113412
Conc: 4.94 ppb



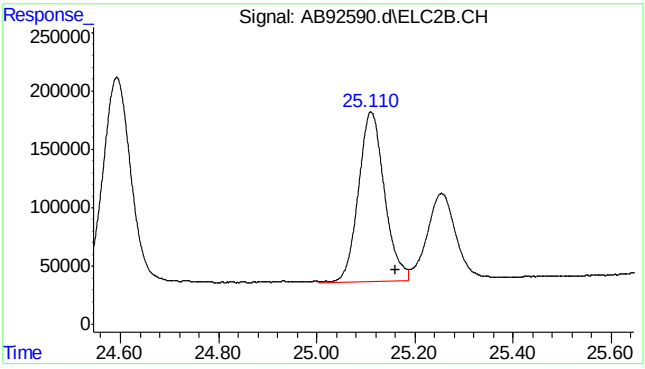
#32 1,2,4-trimethylbenzene #2

R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 5356131
Conc: 5.07 ppb m



#33 naphthalene #2

R.T.: 28.059 min
Delta R.T.: 0.005 min
Response: 4141853
Conc: 5.13 ppb m




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

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:   5353469
      Conc:   5.04 ppb m
```

7.5.7

7

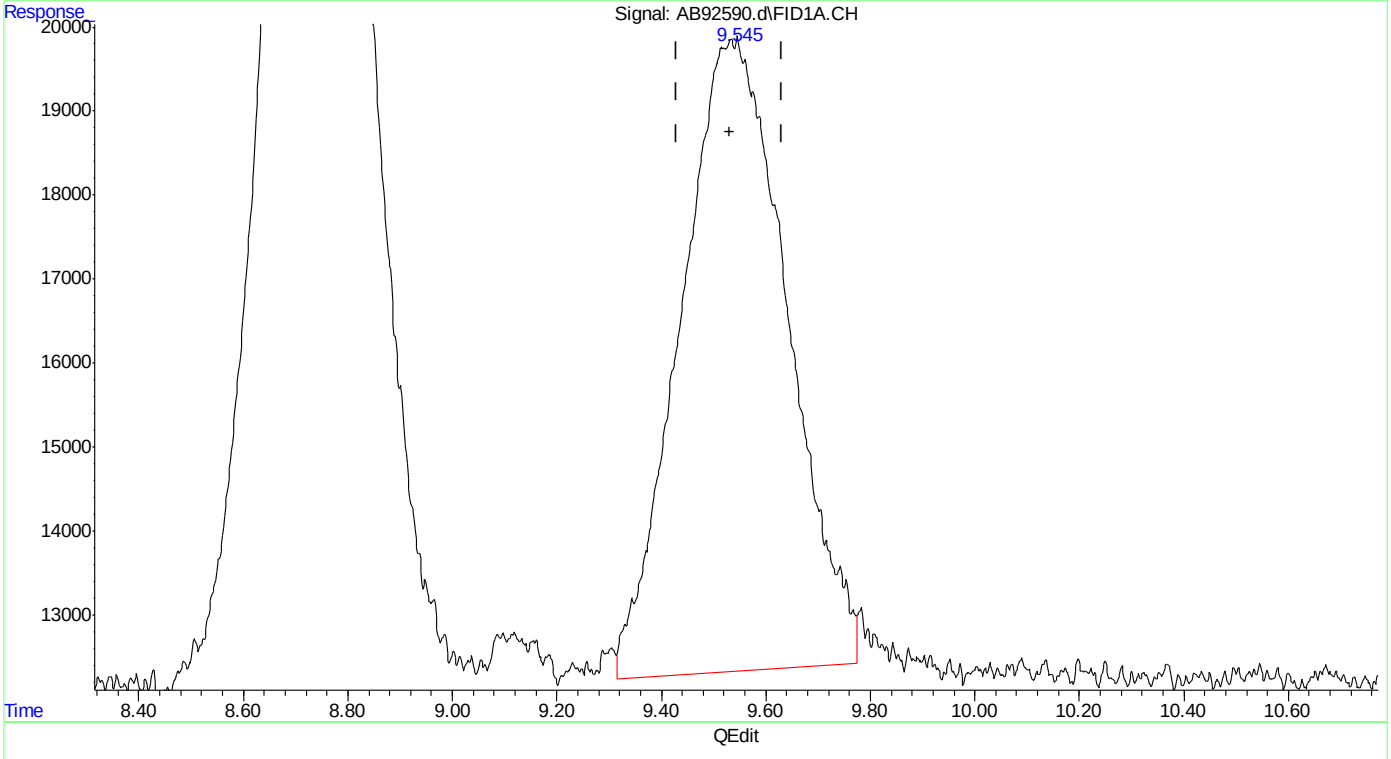
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.545min 4.876 ppb
response 1070624

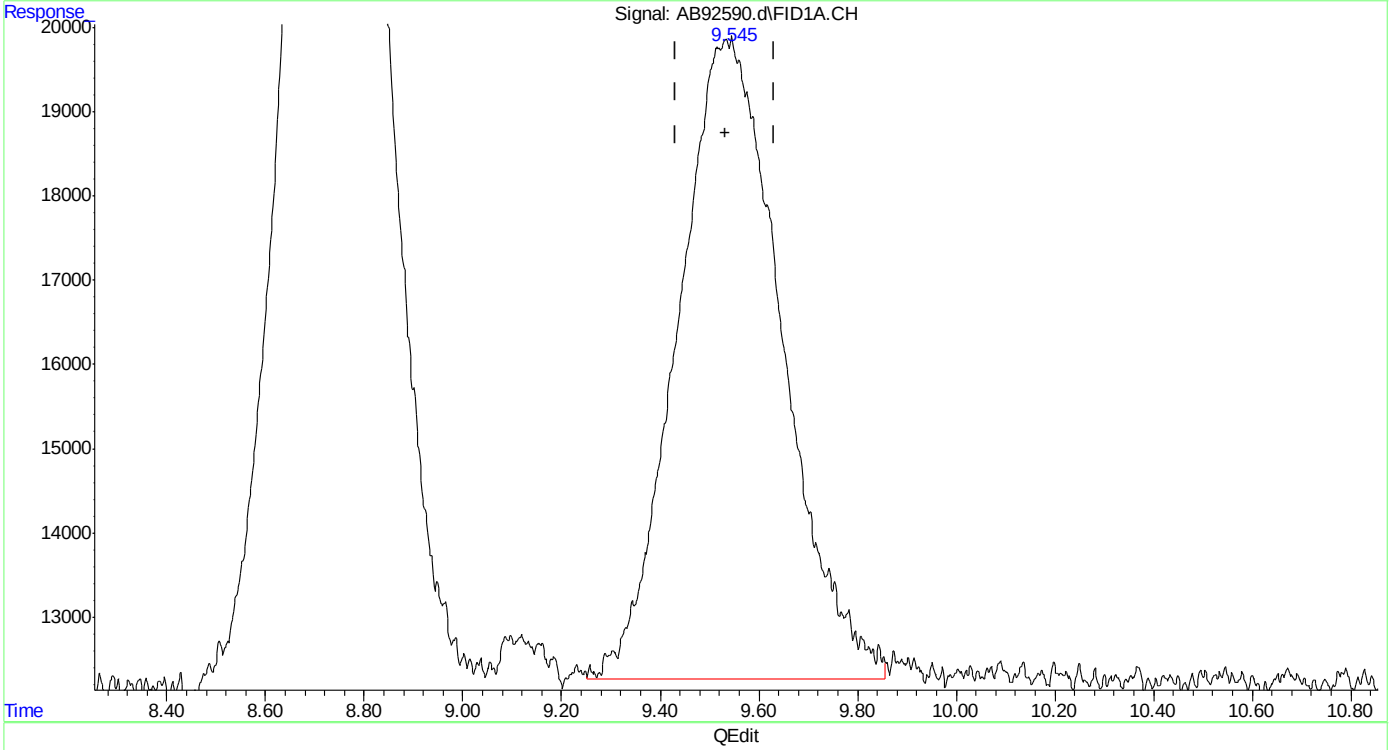
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:41:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.545min 5.086 ppb m
response 1116791

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:41:34 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(6) fluorobenzene (s)
15.172min 4.976 ppb
response 2185883

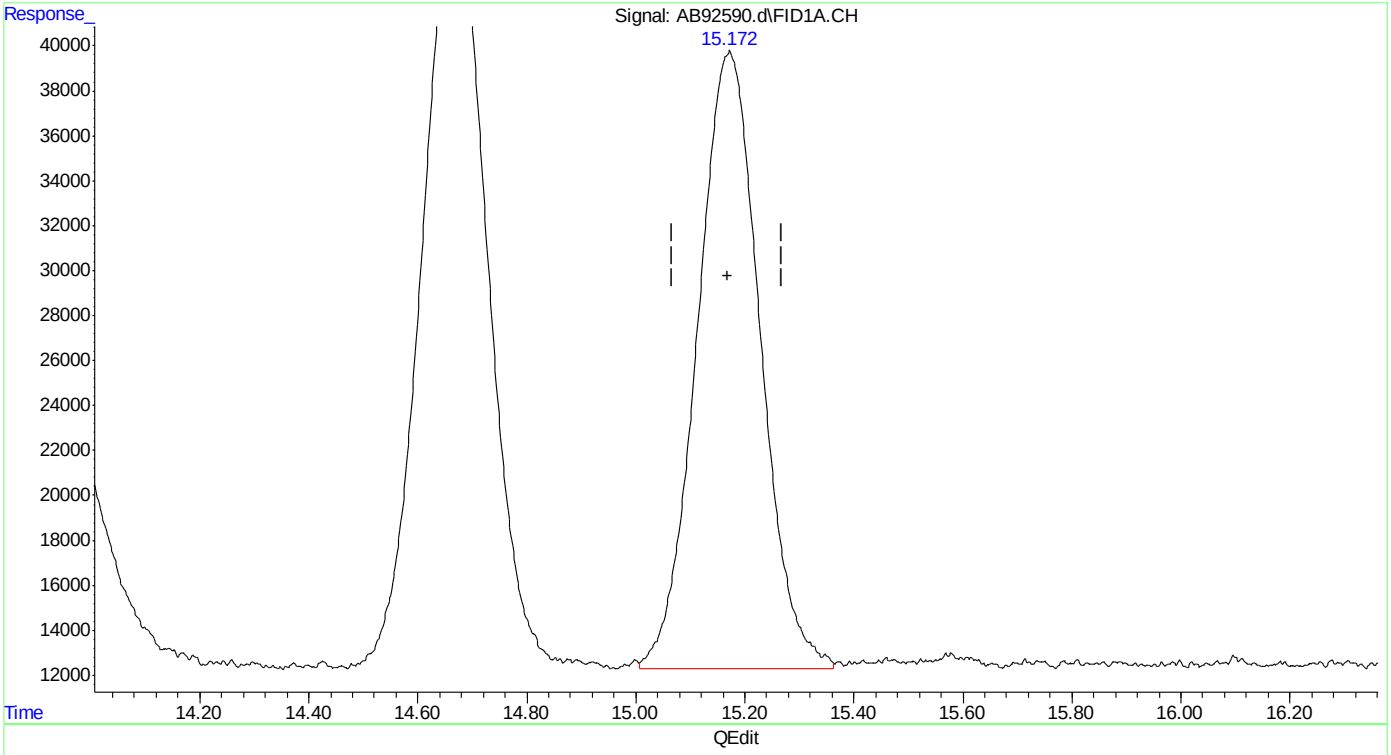
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
15.172min 5.009 ppb m
response 2200101

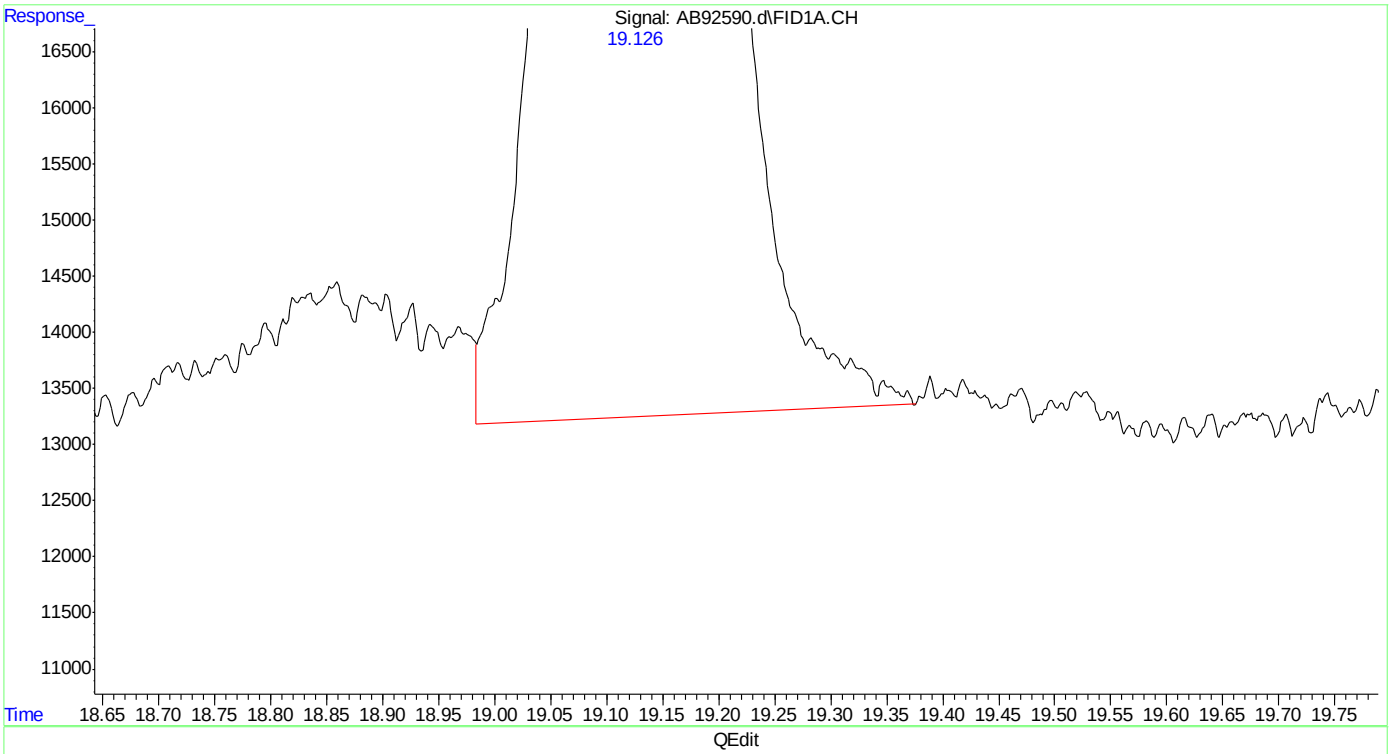
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
19.127min 5.170 ppb
response 3148368

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:42:13 2016

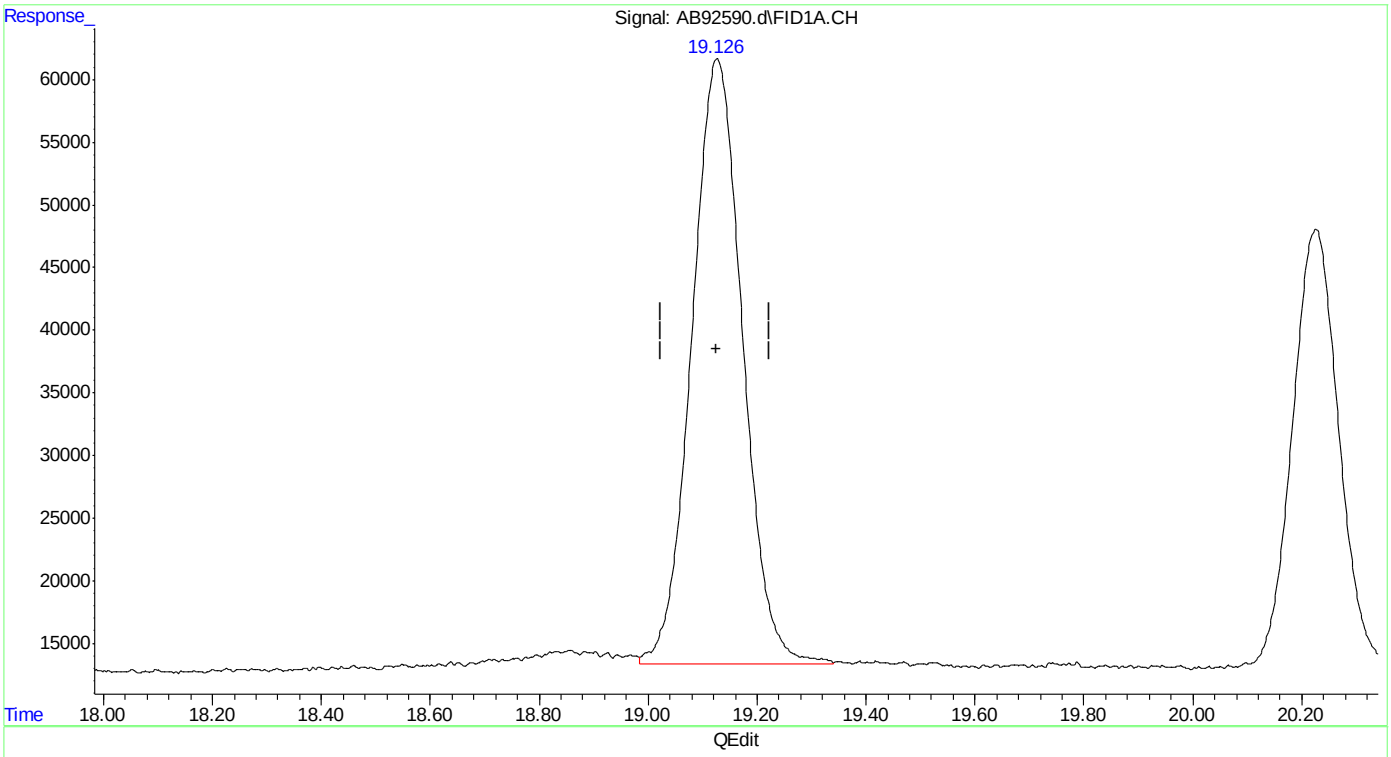
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
19.126min 5.137 ppb m
response 3128391

(+) = Expected Retention Time

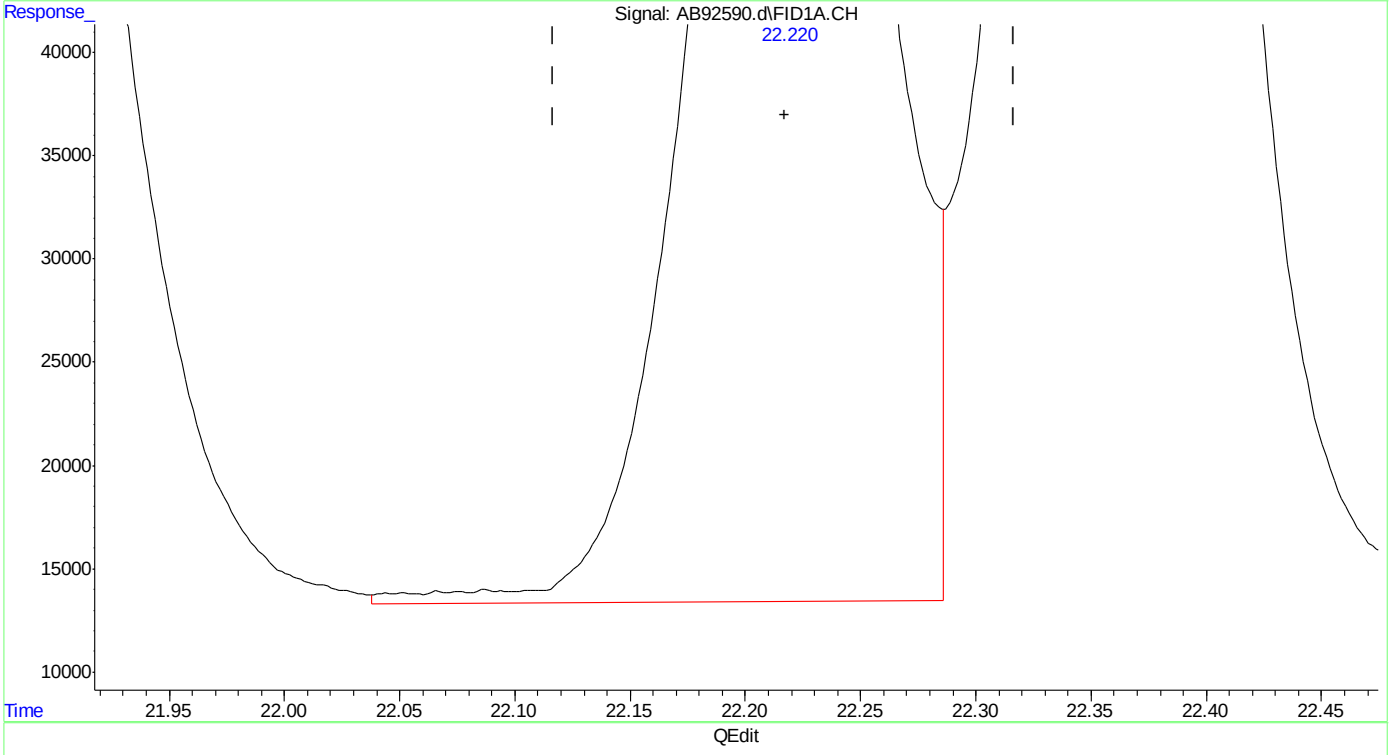
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) ethylbenzene
22.220min 5.137 ppb
response 3338824

(+) = Expected Retention Time

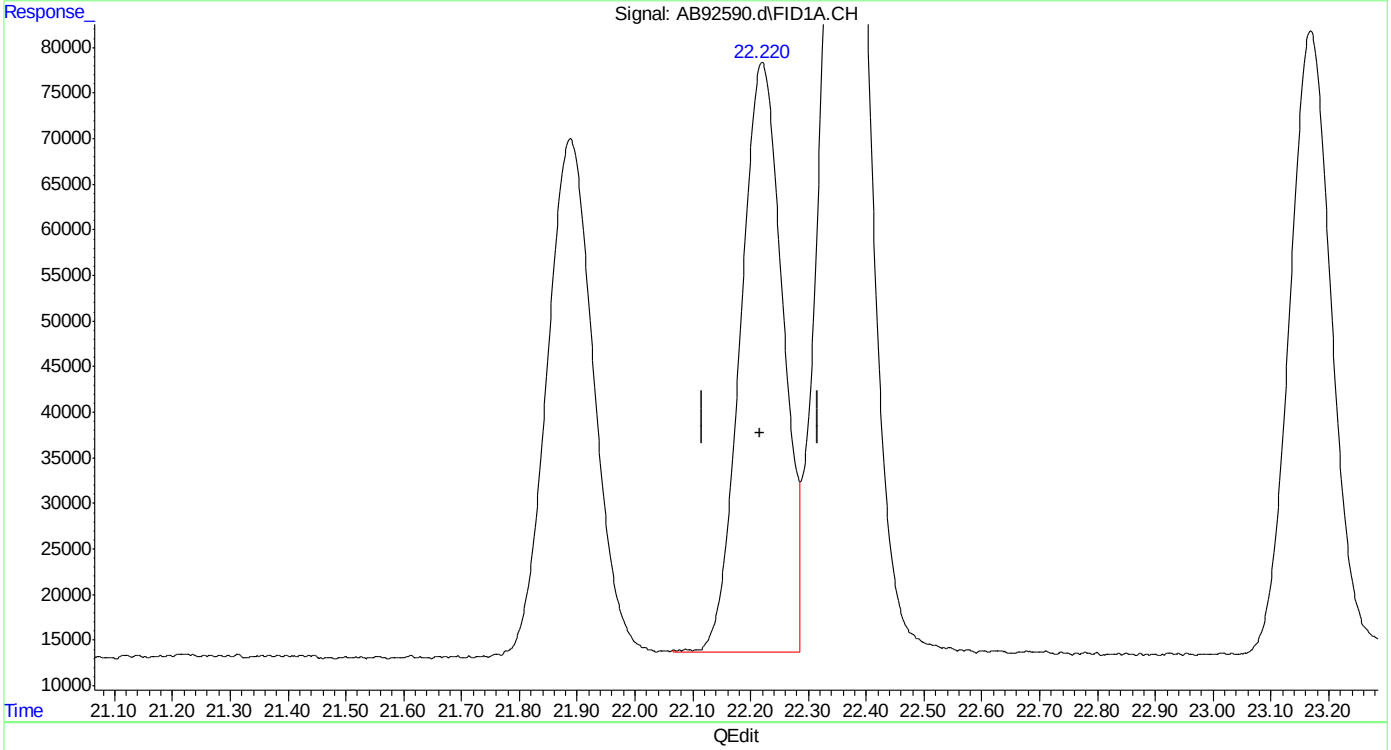
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) ethylbenzene
22.220min 5.084 ppb m
response 3304644

(+) = Expected Retention Time

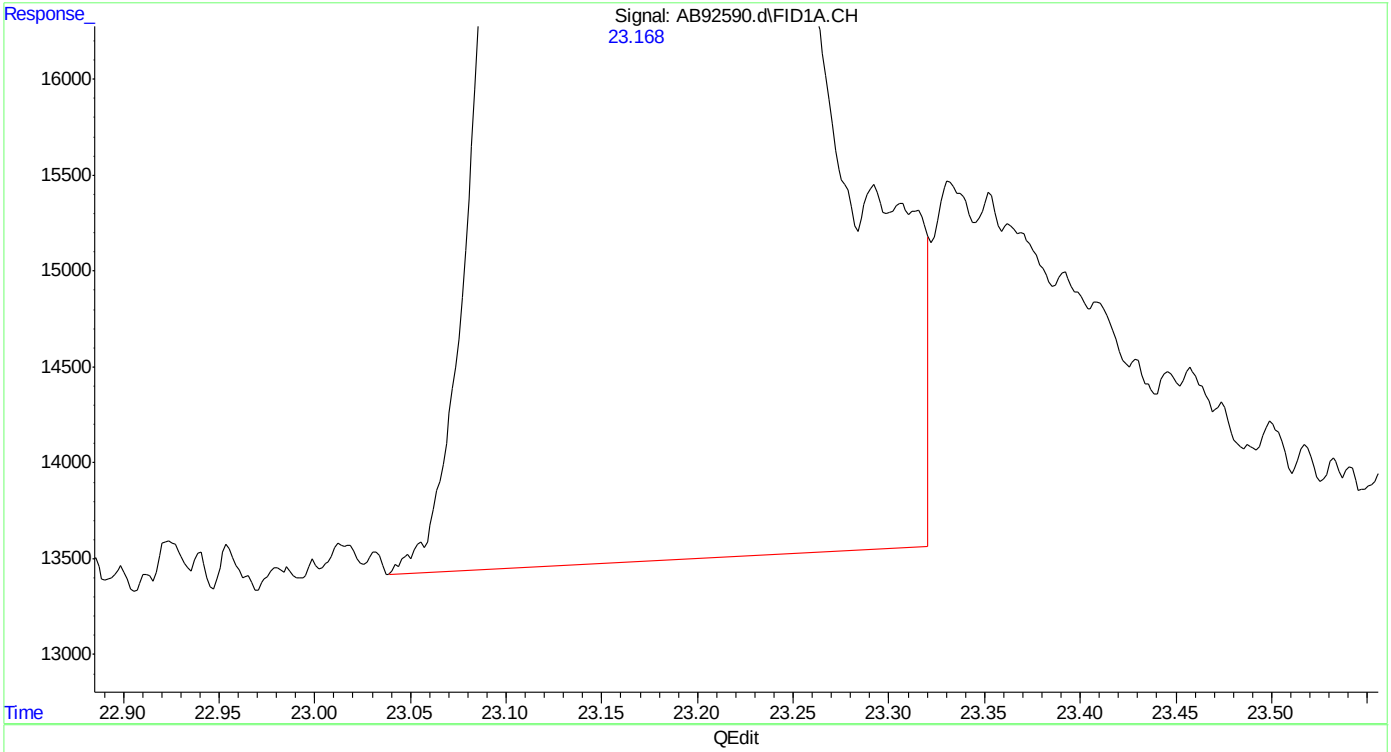
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.169min 5.170 ppb
response 3499460

(+) = Expected Retention Time

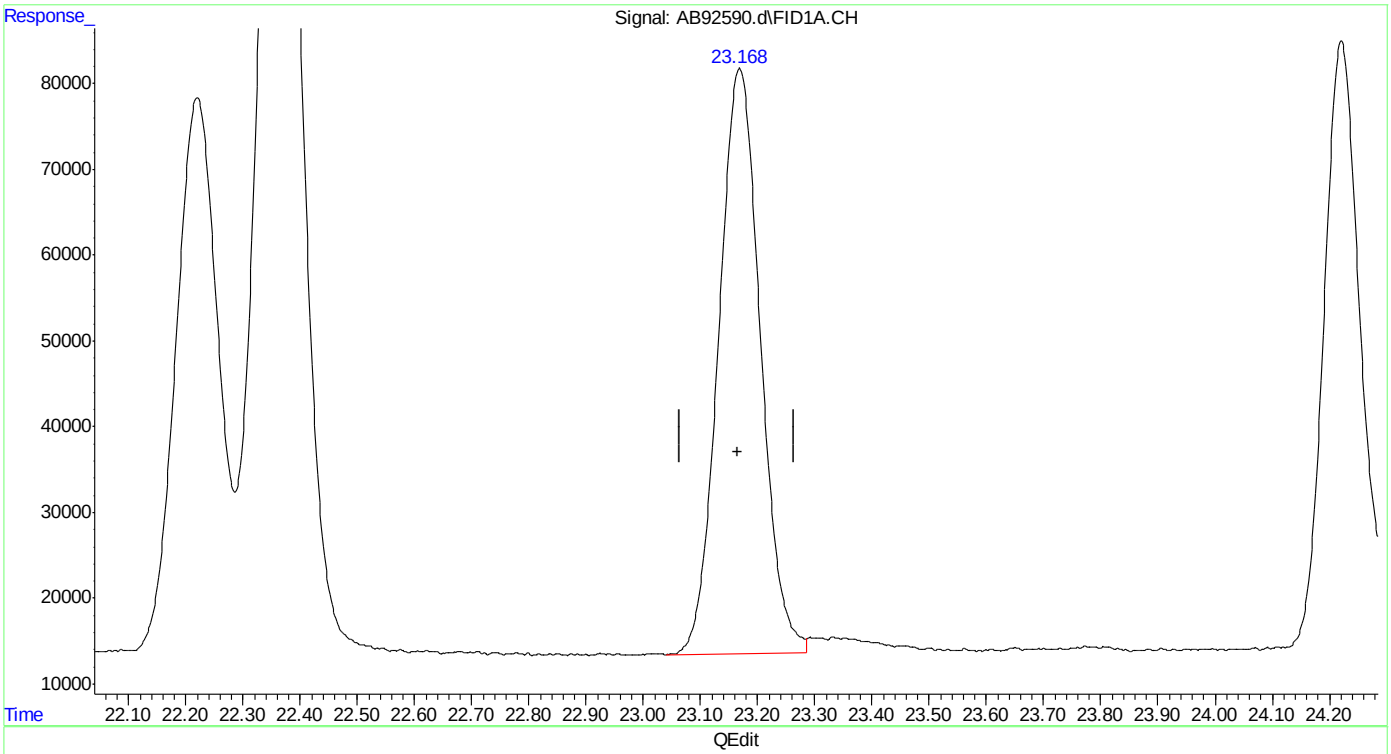
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.168min 5.112 ppb m
response 3460195

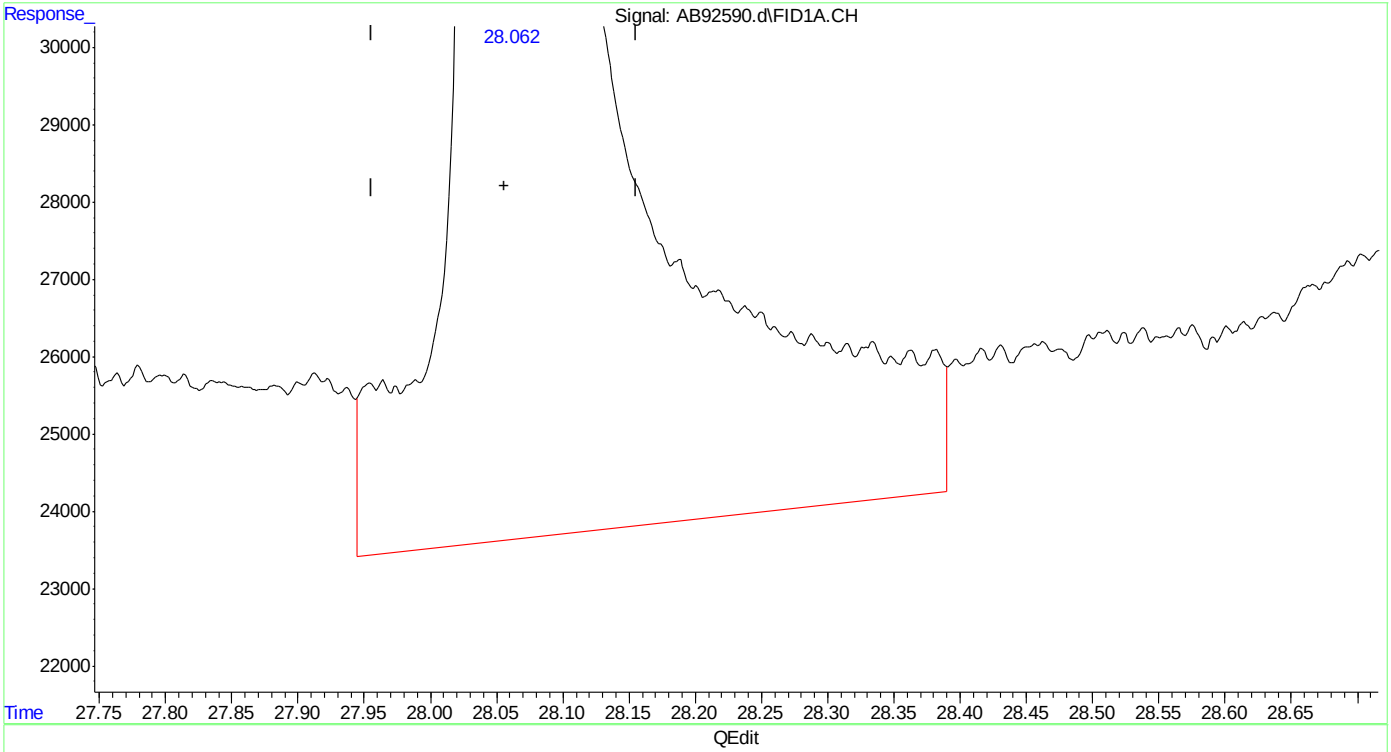
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.062min 6.689 ppb
response 2454121

(+) = Expected Retention Time

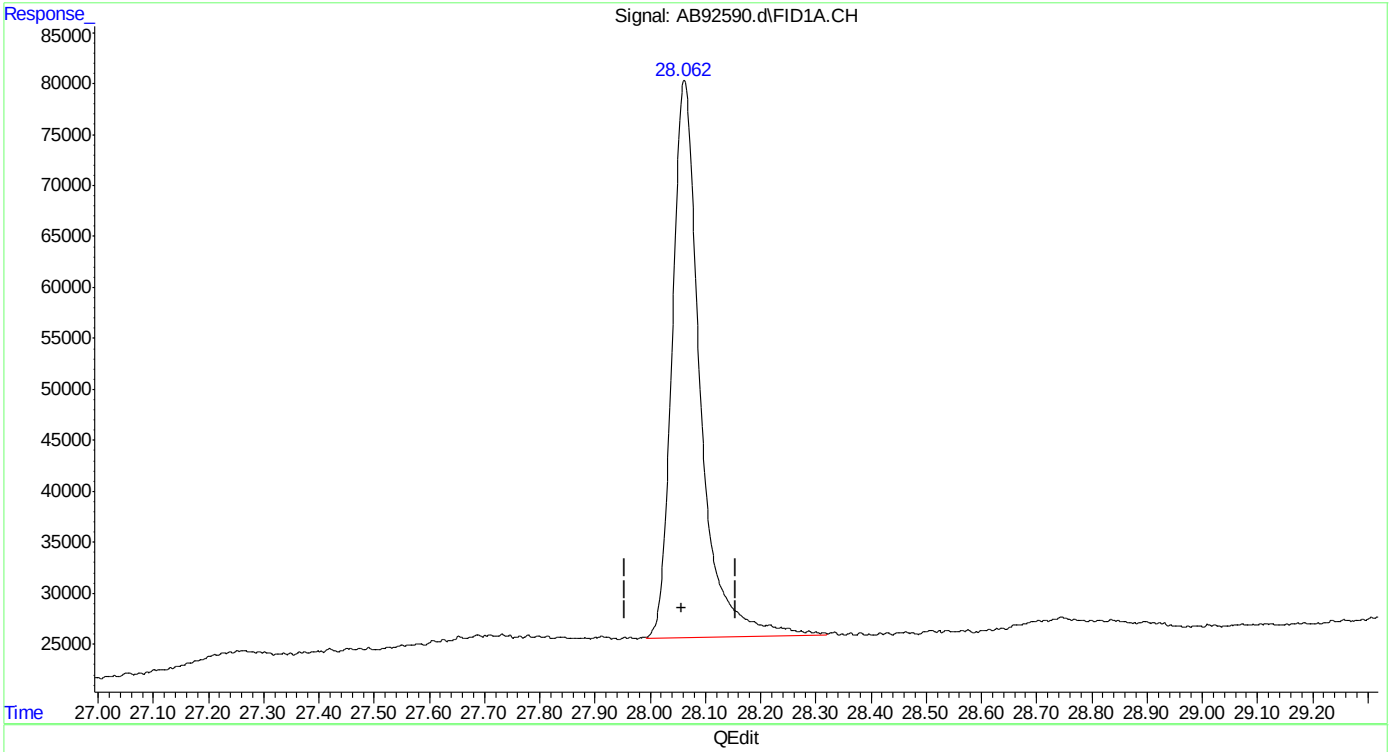
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:10:22
Operator  : haleyn
Sample    : ic5058-5
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene

28.062min 5.278 ppb m

response 1936540

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 12:44:43 2016

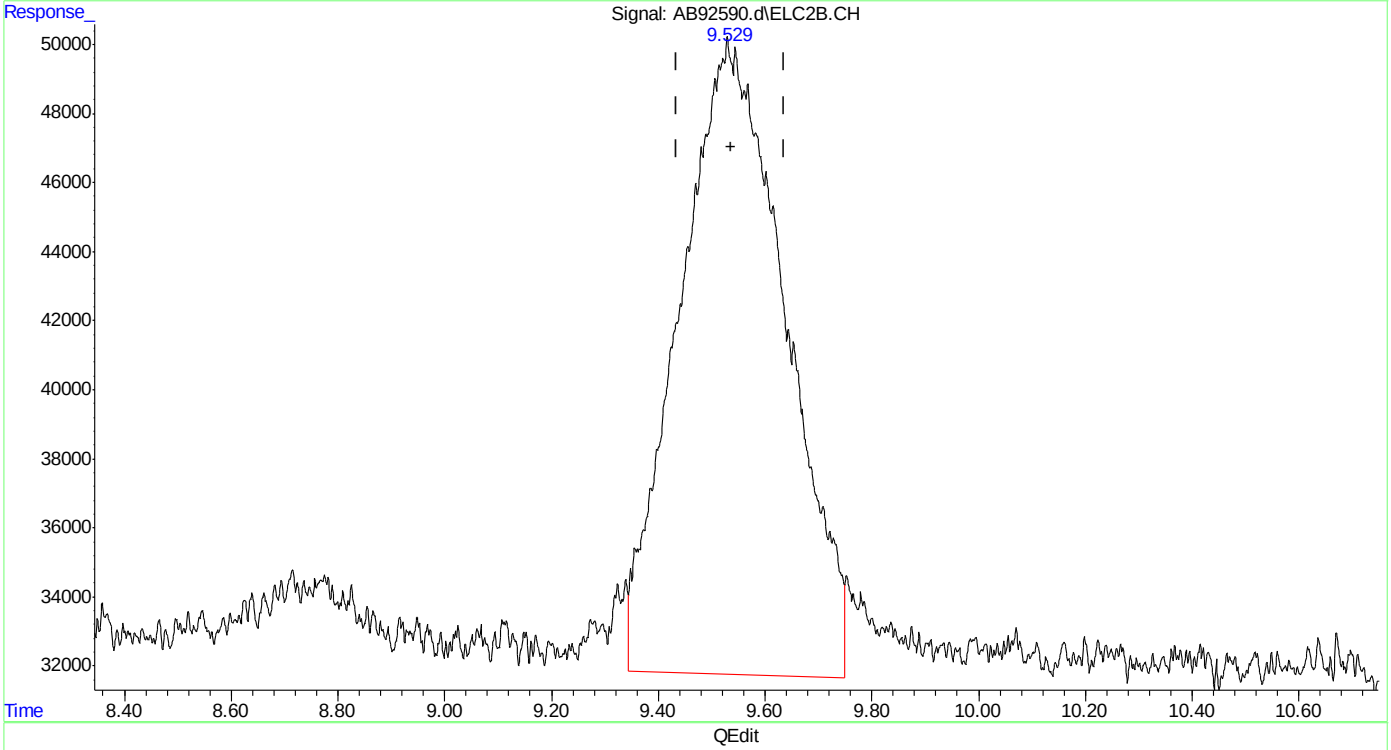
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.530min 4.904 ppb
response 2540172

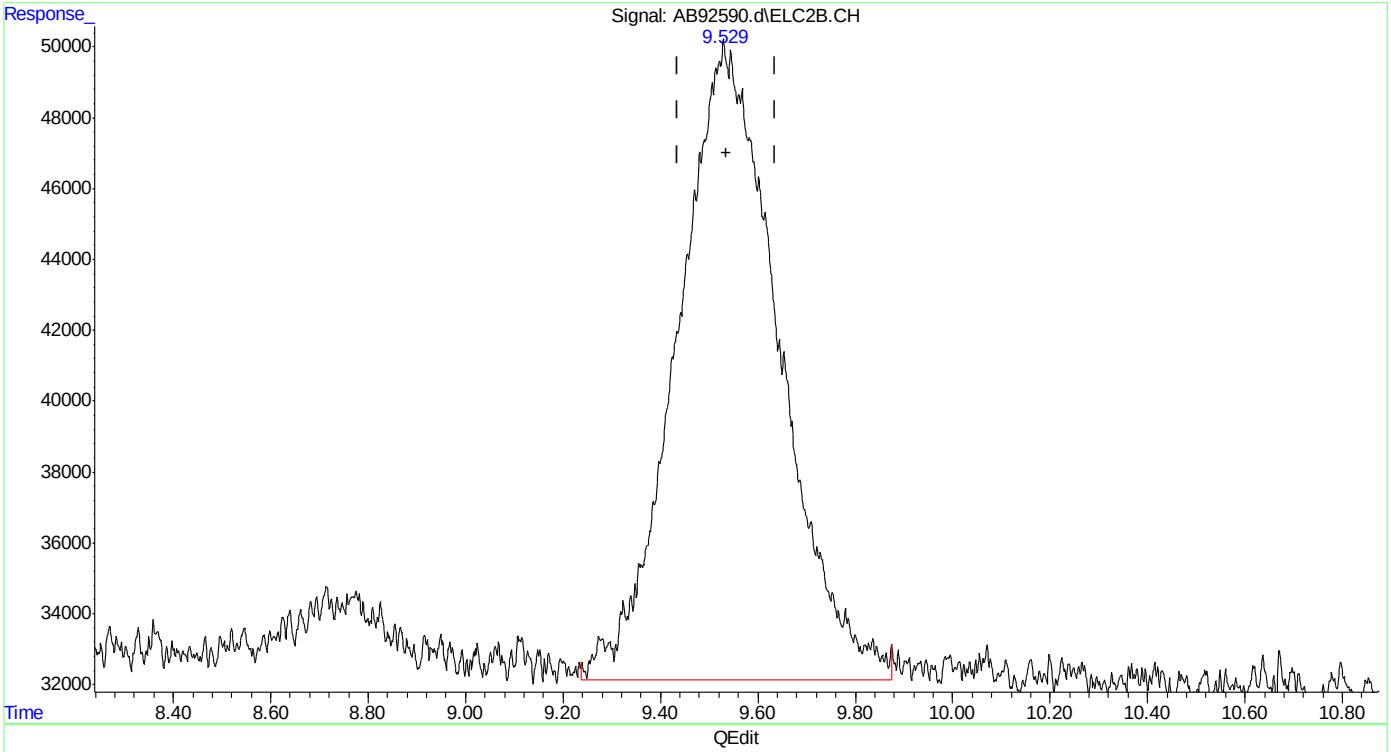
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.529min 5.027 ppb m
response 2603992

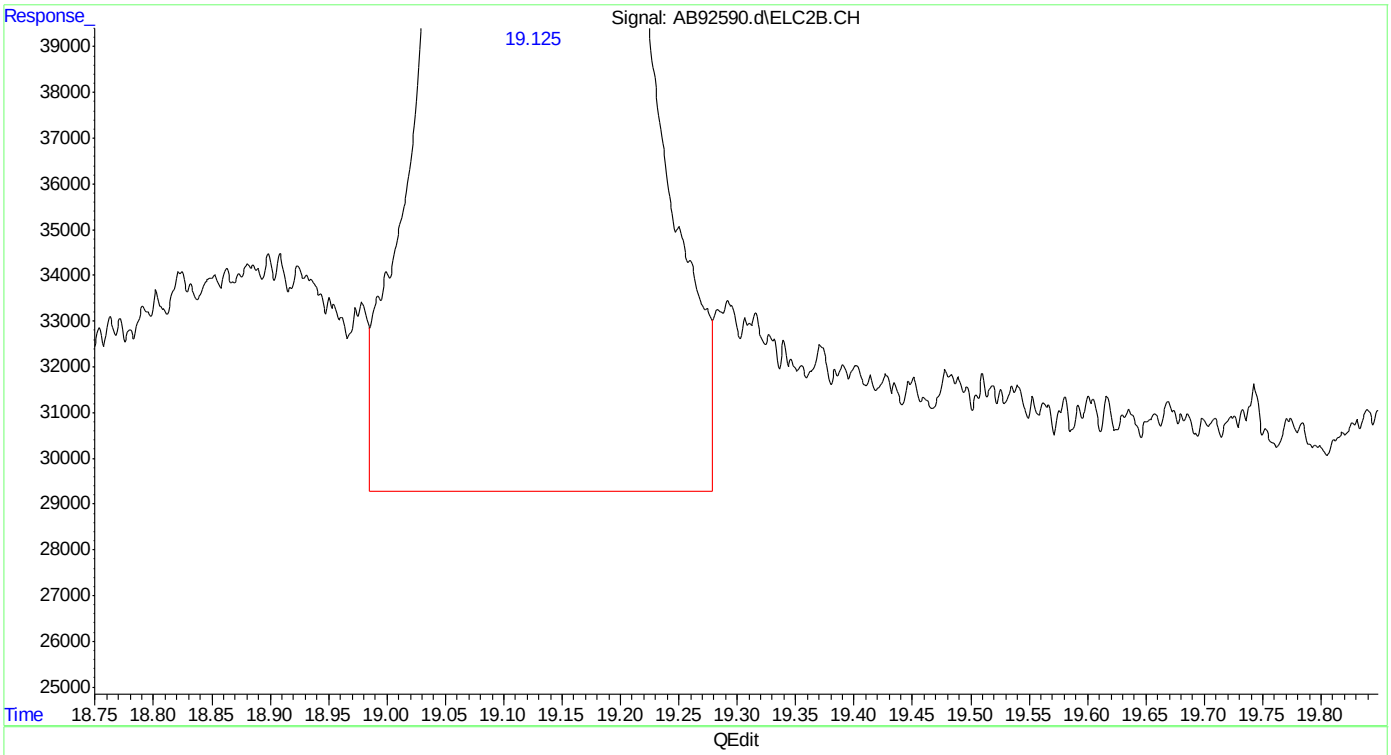
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
19.126min 5.256 ppb
response 6373988

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:18 2016

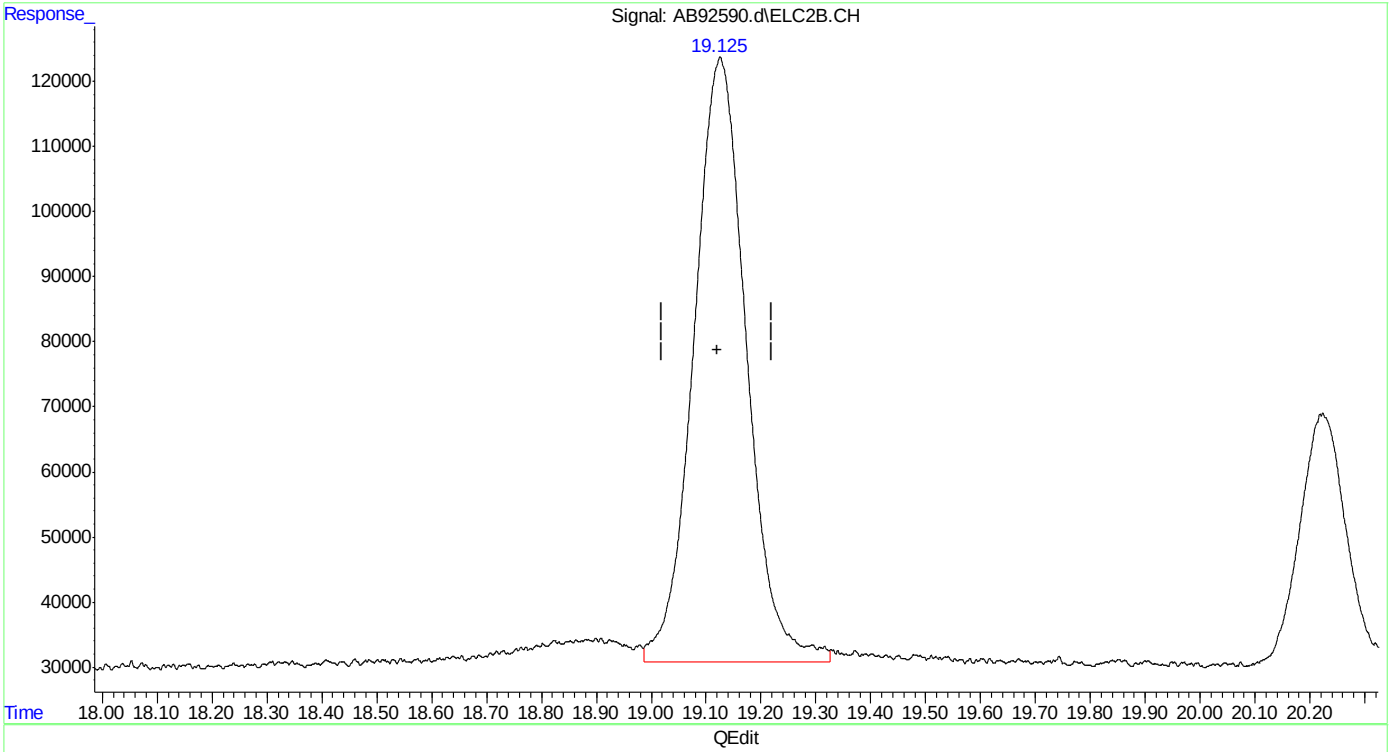
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
19.125min 5.082 ppb m
response 6163190

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:42 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(27) 2,3,4-trifluorotoluene #2 (s)
20.223min 5.260 ppb
response 2482180

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:46 2016

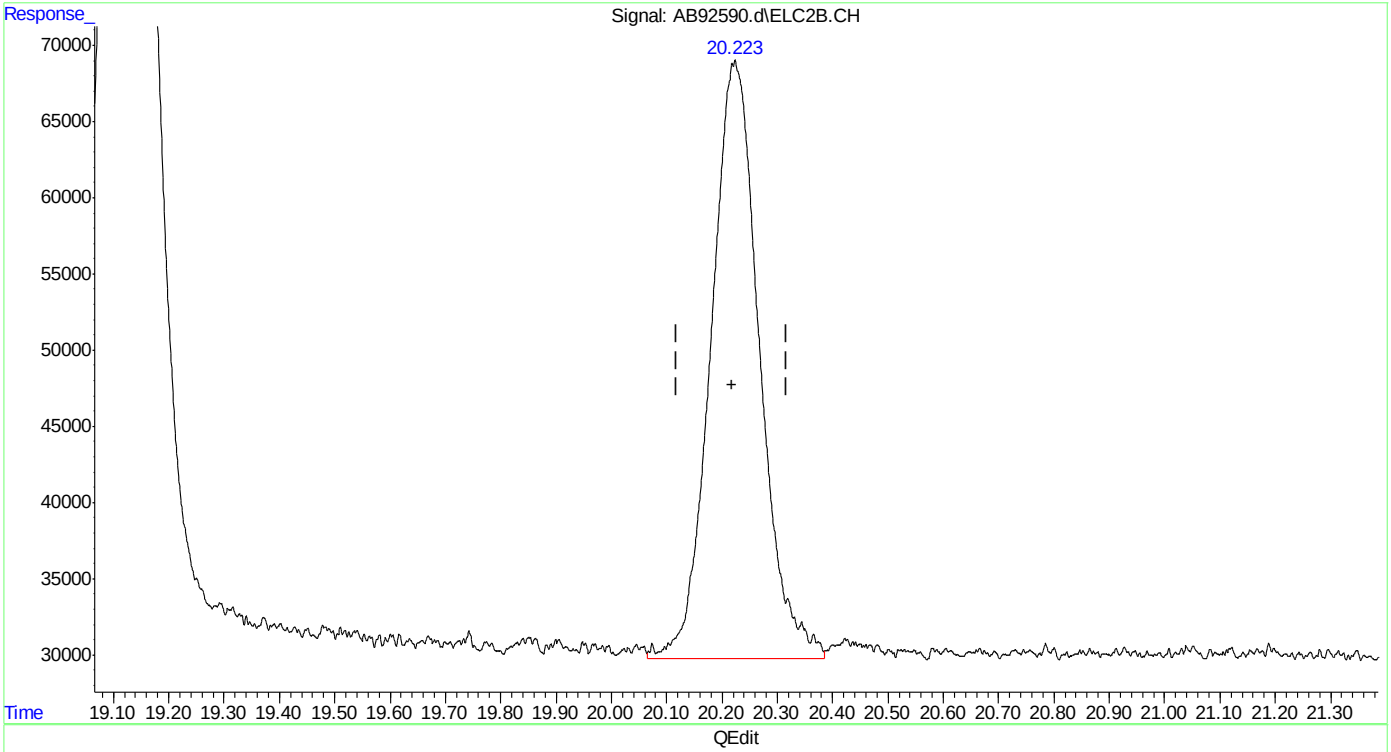
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
20.223min 5.071 ppb m
response 2393092

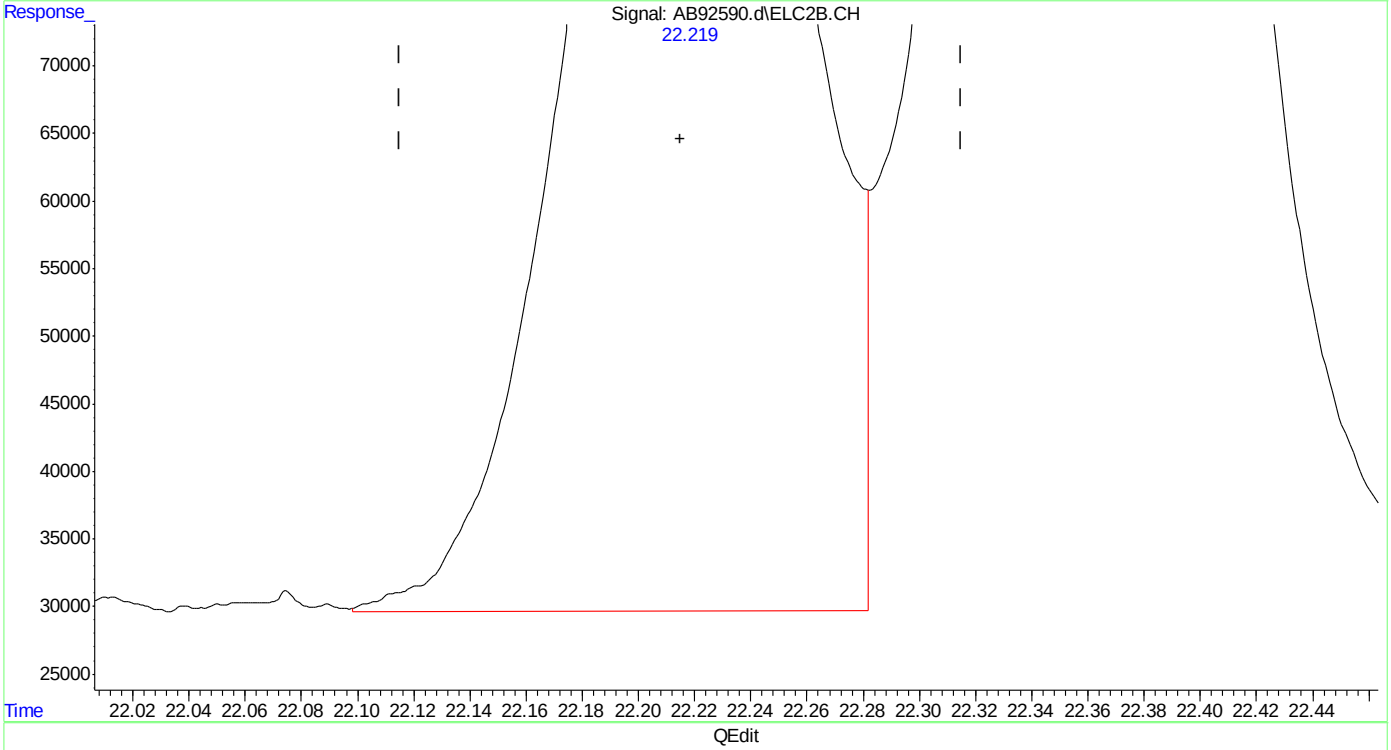
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:10:22
Operator  : haleyn
Sample    : ic5058-5
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2

22.218min 4.940 ppb

response 4932404

(+) = Expected Retention Time

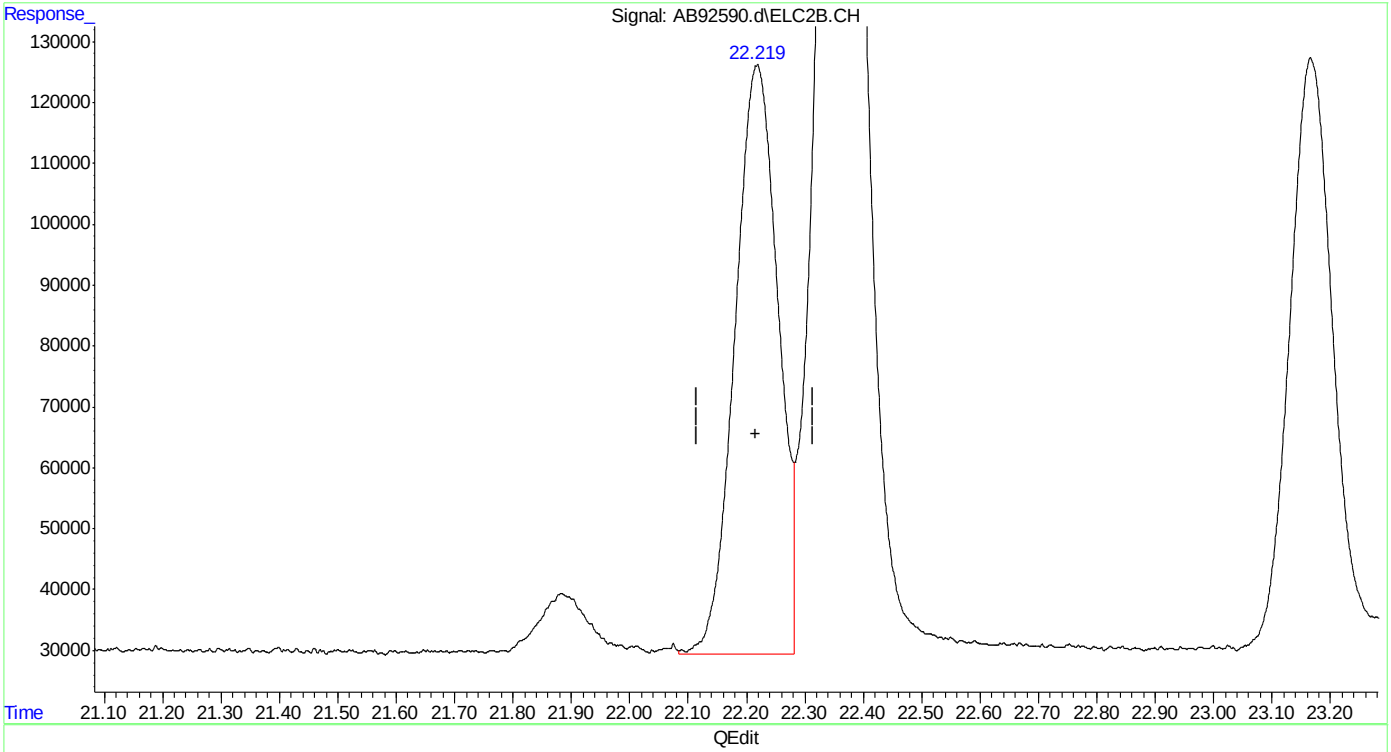
ab160112vphmaster.M Tue Jan 12 12:46:00 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:10:22
Operator  : haleyn
Sample    : ic5058-5
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2

22.219min 4.996 ppb m

response 4988642

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 12:46:11 2016

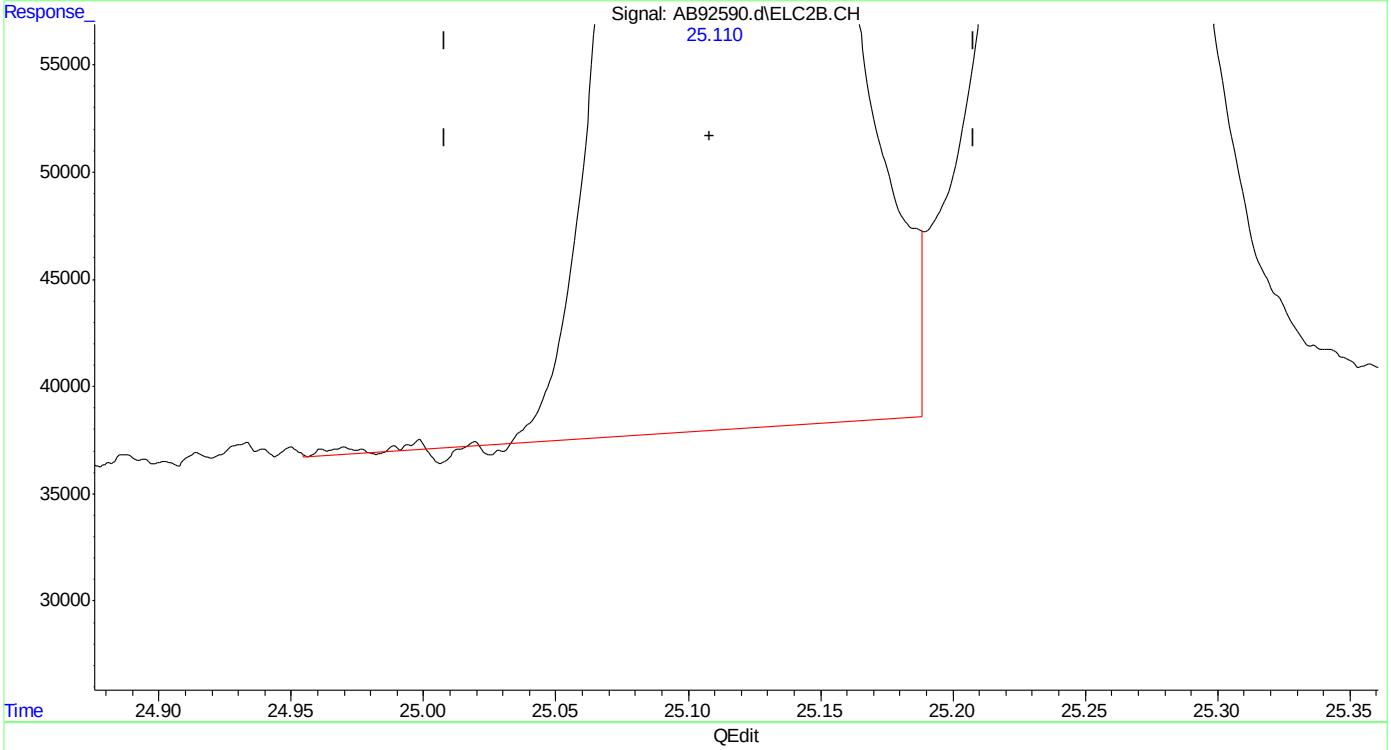
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.111min 4.970 ppb
response 5245029

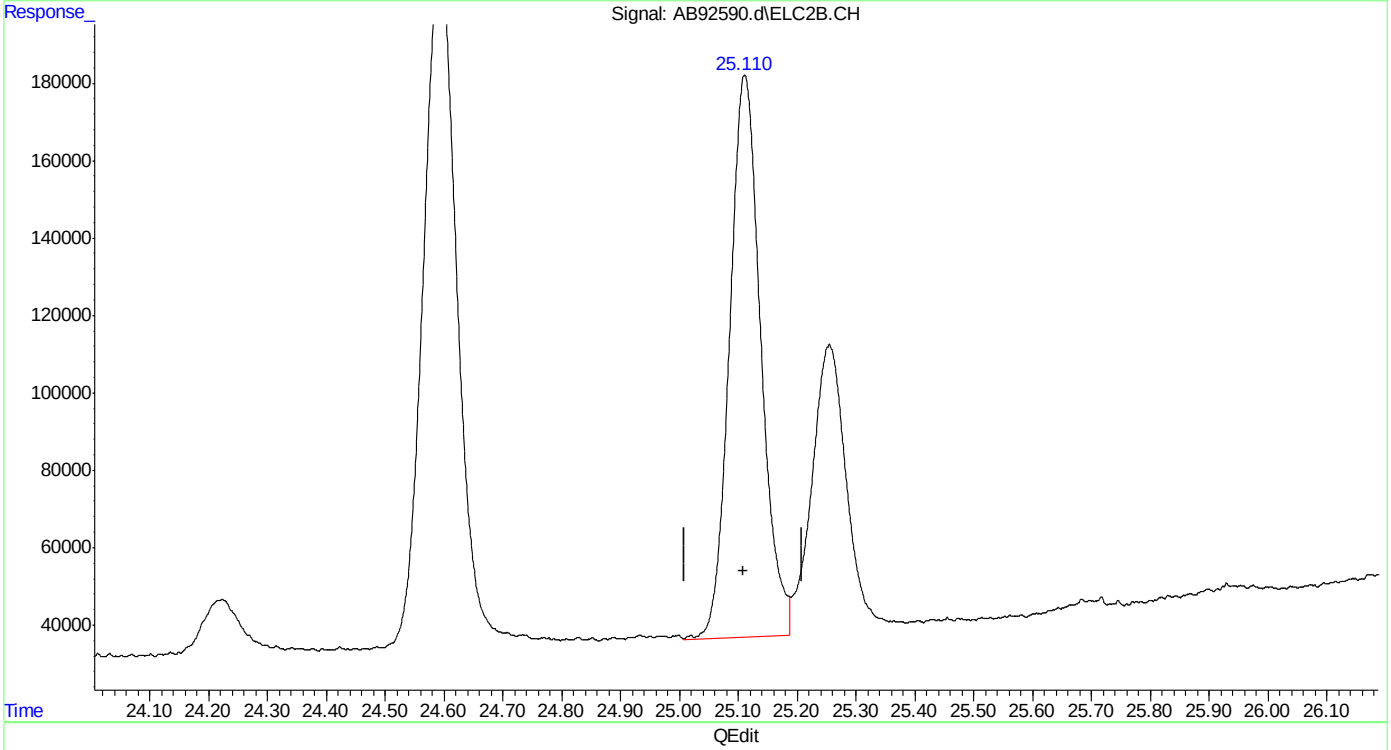
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.110min 5.075 ppb m
response 5356131

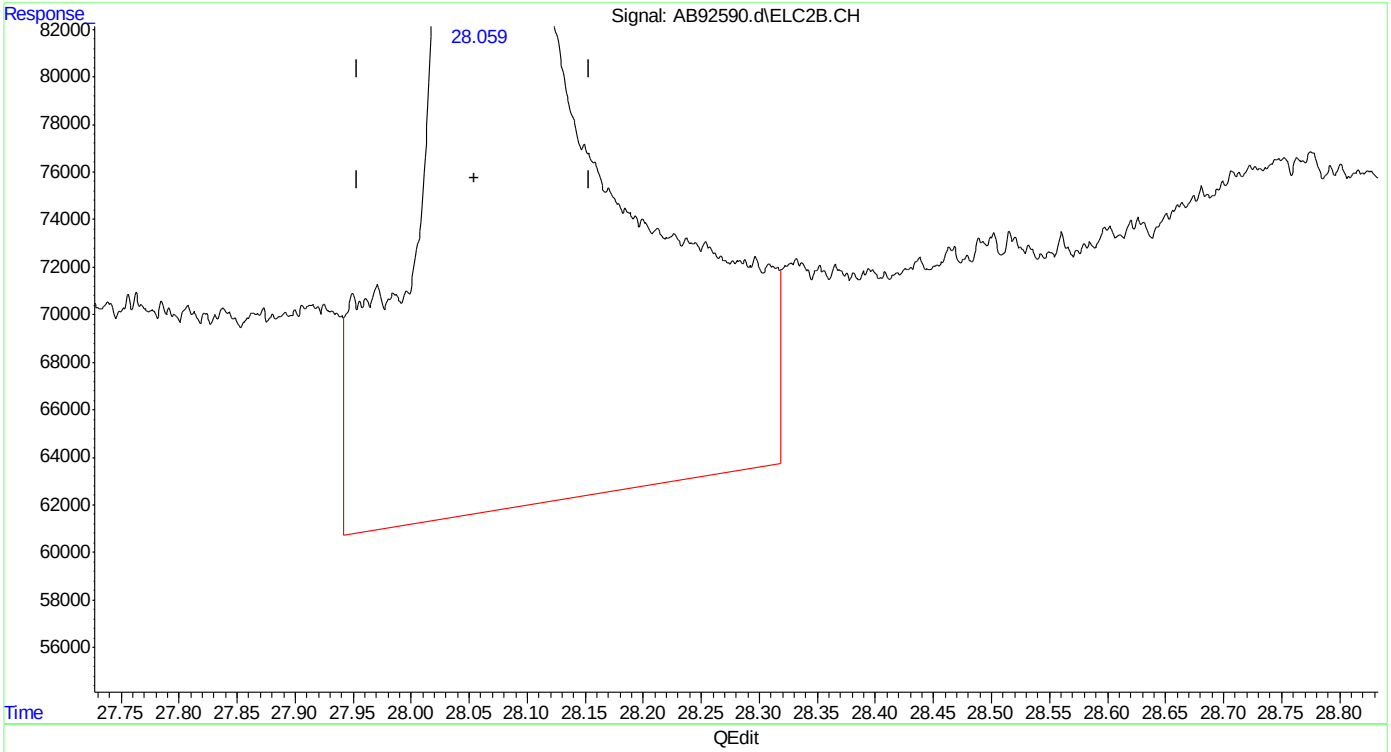
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.060min 7.602 ppb
response 6135012

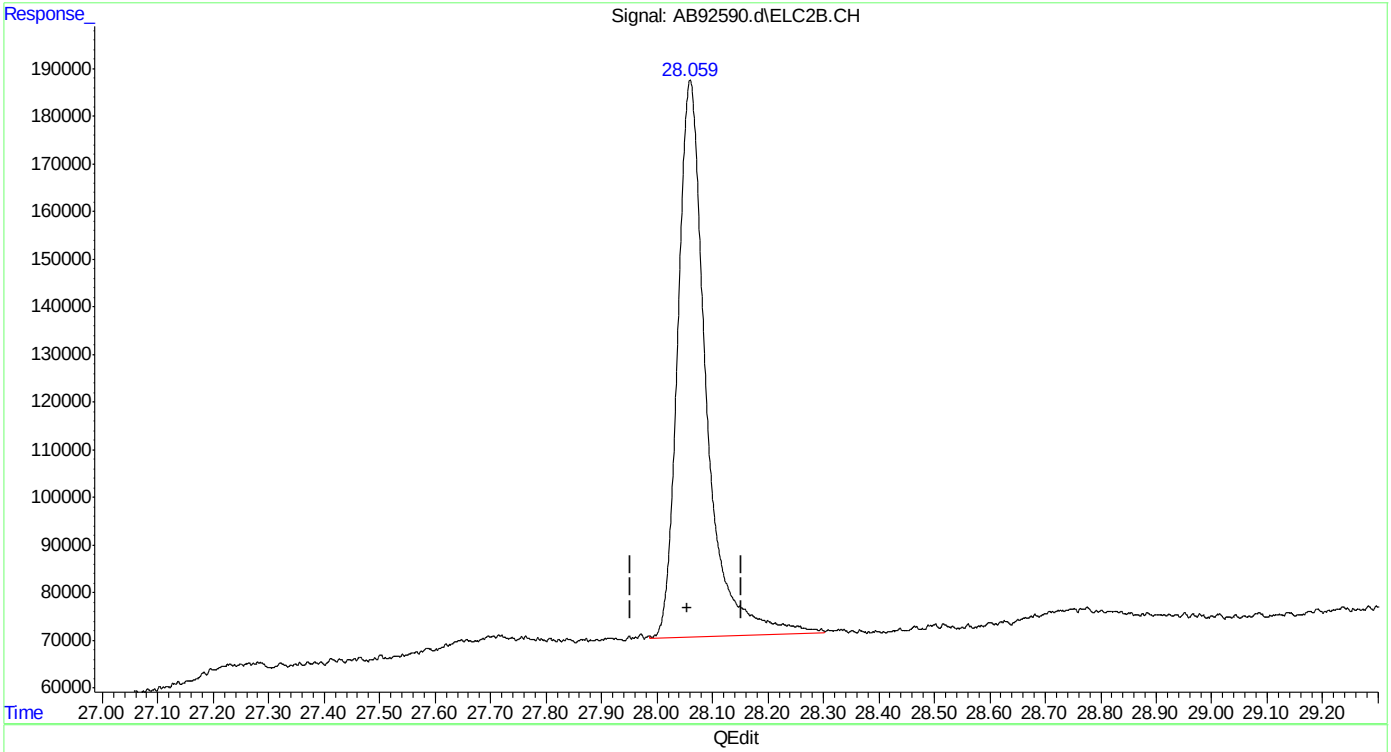
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:35 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.059min 5.178 ppb m
response 4179259

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.165	882607	2.008	ppb	m
Spiked Amount 50.000		Recovery =	4.02%		
9) s 2,3,4-trifluorotoluene	20.228	858302	2.084	ppb	
Spiked Amount 50.000		Recovery =	4.17%		
25) s fluorobenzene #2	15.167	1721246	1.968	ppb	m
Spiked Amount 50.000		Recovery =	3.94%		
27) s 2,3,4-trifluorotoluen...	20.218	995138	2.099	ppb	m
Spiked Amount 50.000		Recovery =	4.20%		
Target Compounds					
1) h rt5.5-7	6.370	782177	2.108	ppb	m
2) h rt7/10	8.710	895663	2.098	ppb	m
3) mtbe	9.518	440739	1.996	ppb	m
4) h rt10/13	13.890	1010297	2.083	ppb	m
5) benzene	14.667	1091864	1.956	ppb	m
8) toluene	19.129	1201255	1.955	ppb	m
11) h rt20/25	21.900	1295530	2.108	ppb	m
13) ethylbenzene	22.223	1269420	1.942	ppb	m
14) m,p-xylene	22.365	2661036	3.910	ppb	m
15) o-xylene	23.170	1342437	1.969	ppb	m
16) h decane	24.230	1363143	2.174	ppb	m
17) t 1,3,5-trimethylbenzene	24.596	1485425	2.065	ppb	m
18) 1,2,4-trimethylbenzene	25.115	1358128	1.976	ppb	m
19) h butylcyclohexane	25.263	1487308	2.216	ppb	m
20) naphthalene	28.068	834686	2.234	ppb	m
23) mtbe #2	9.561	1012871	1.952	ppb	m
24) benzene #2	14.668	2639435	1.883	ppb	m
26) toluene #2	19.126	2524690	2.070	ppb	m
28) ethylbenzene #2	22.223	1889943	1.893	ppb	m
29) m,p-xylene #2	22.365	4718026	3.849	ppb	m
30) o-xylene #2	23.169	1948764	1.927	ppb	m
31) t 1,3,5-trimethylbenzen...	24.595	2878673	2.008	ppb	
32) 1,2,4-trimethylbenzen...	25.113	2057662	1.940	ppb	m
33) naphthalene #2	28.064	1726017	2.114	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	2046058	1.922	ppb	m

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

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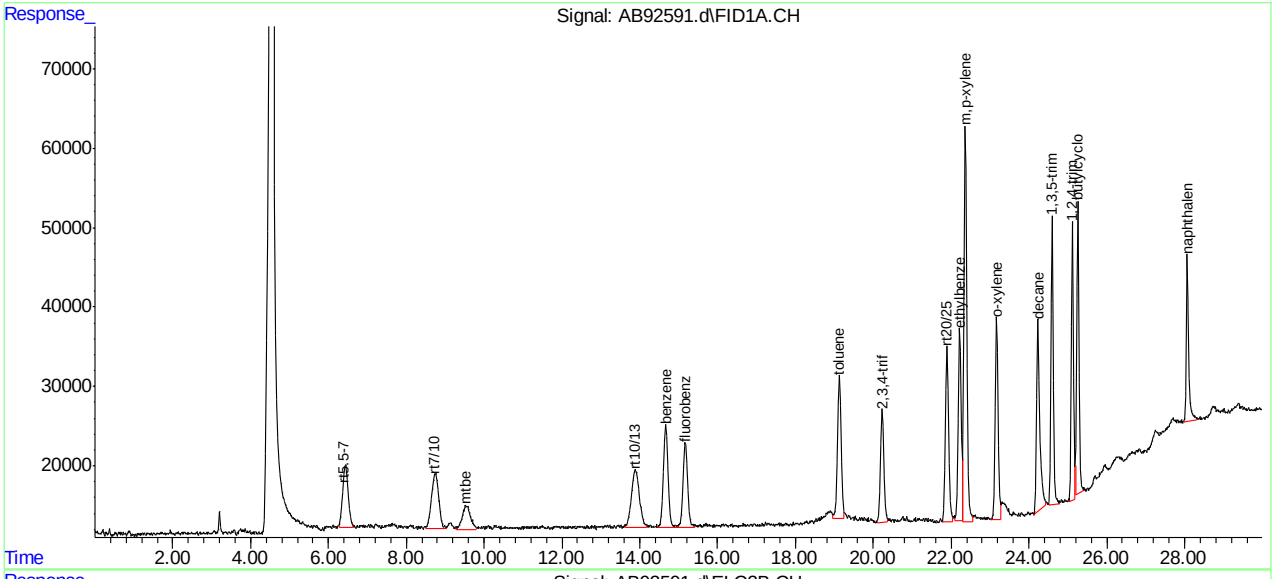
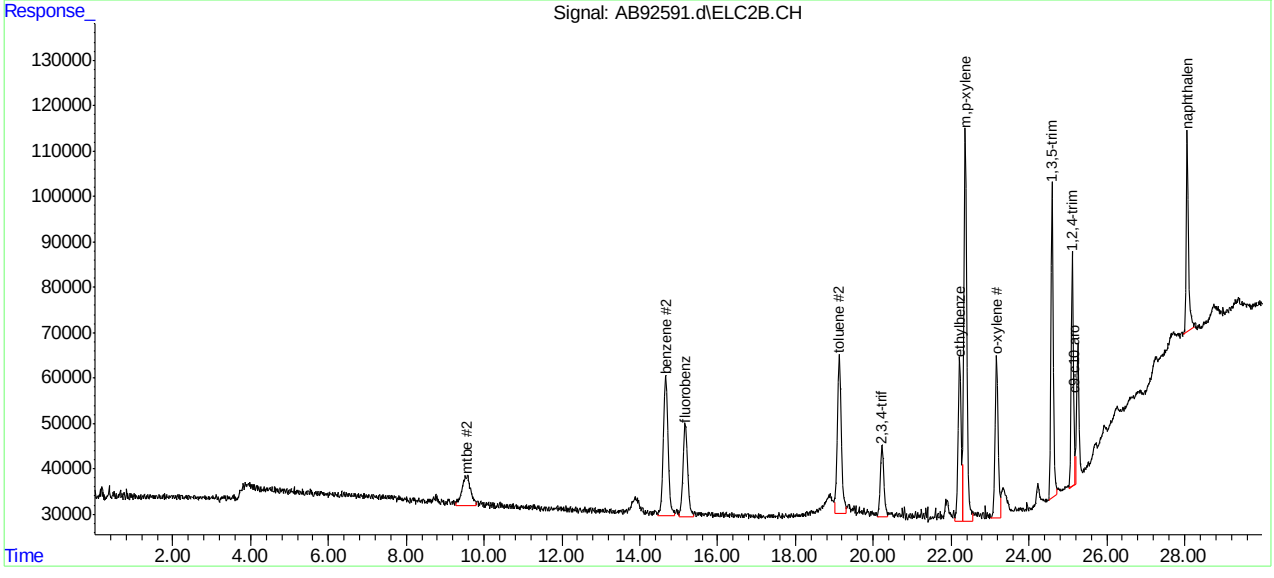
Quantitation Report (QT Reviewed)

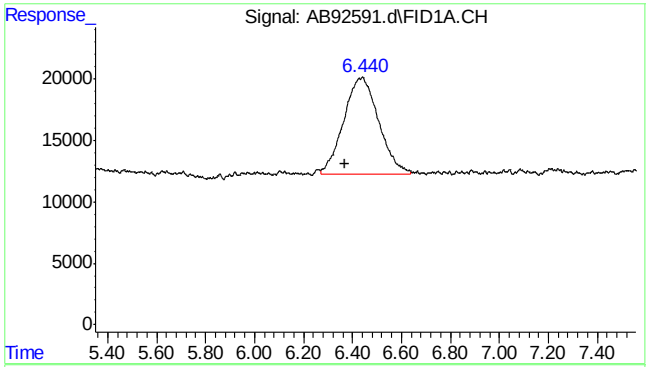
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

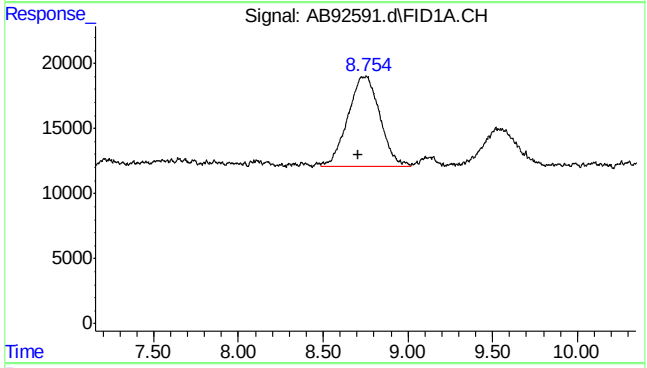






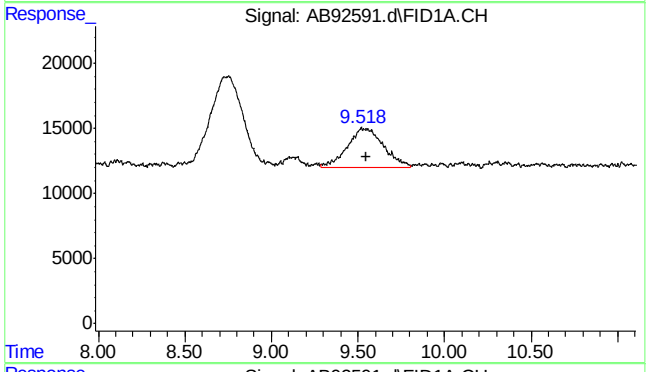
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 782177
Conc: 2.11 ppb m



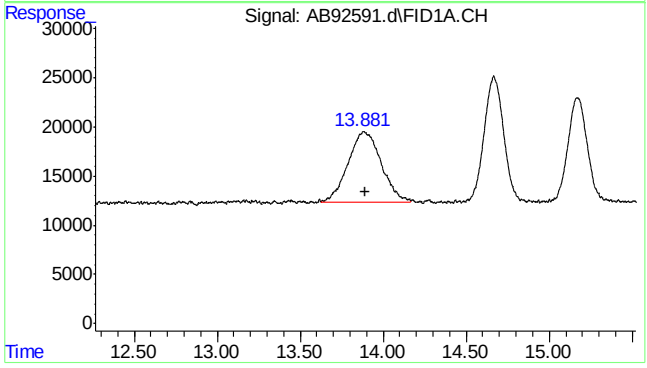
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 895663
Conc: 2.10 ppb m



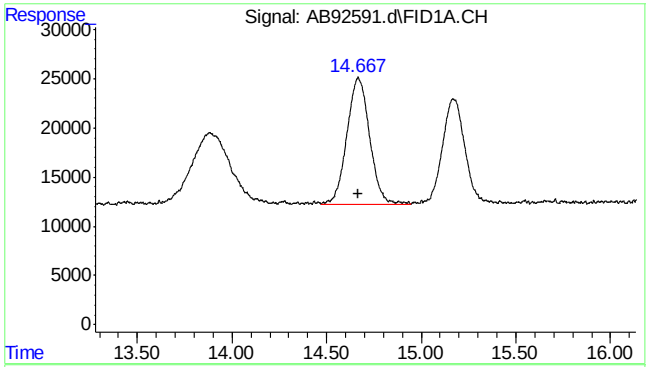
#3 mtbe

R.T.: 9.518 min
Delta R.T.: -0.027 min
Response: 440739
Conc: 2.00 ppb m



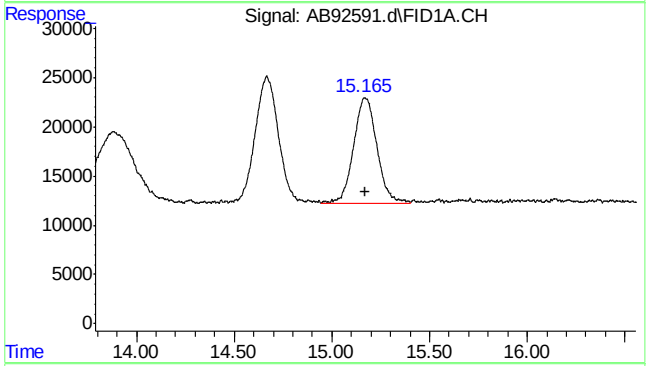
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 1010297
Conc: 2.08 ppb m



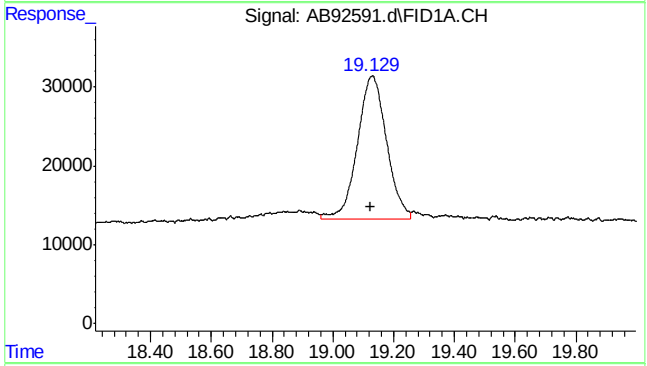
#5 benzene

R.T.: 14.667 min
Delta R.T.: 0.000 min
Response: 1091864
Conc: 1.96 ppb m



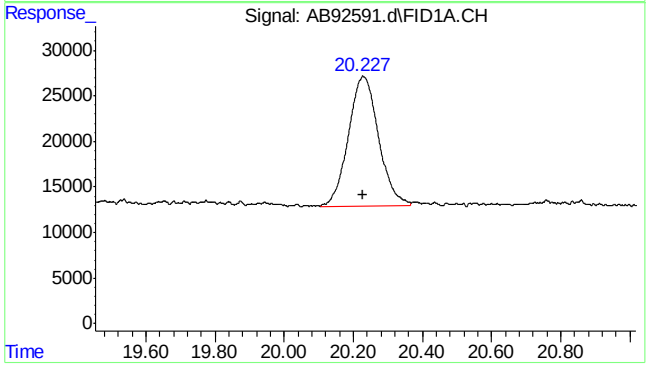
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.007 min
Response: 882607
Conc: 2.01 ppb m



#8 toluene

R.T.: 19.129 min
Delta R.T.: 0.003 min
Response: 1201255
Conc: 1.95 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 20.228 min
Delta R.T.: 0.002 min
Response: 858302
Conc: 2.08 ppb

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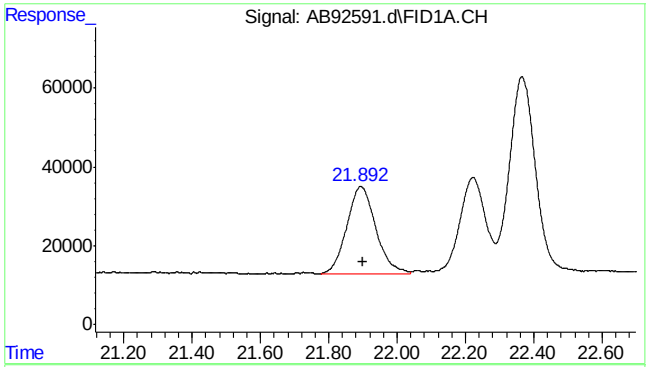
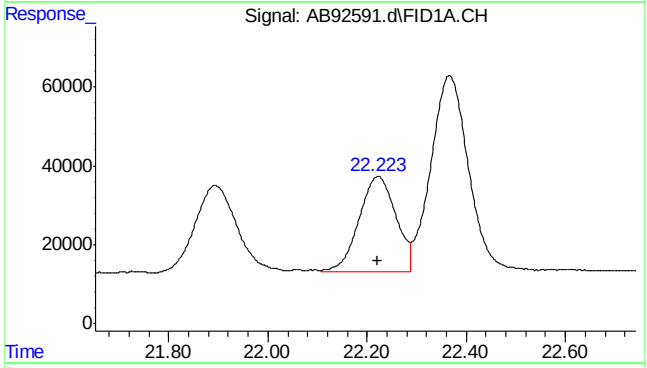


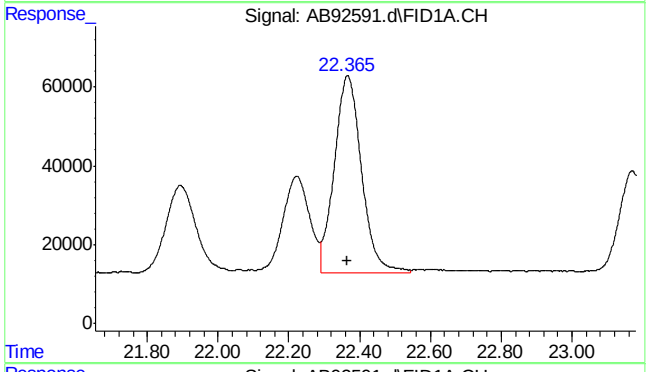
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 1295530
Conc: 2.11 ppb m



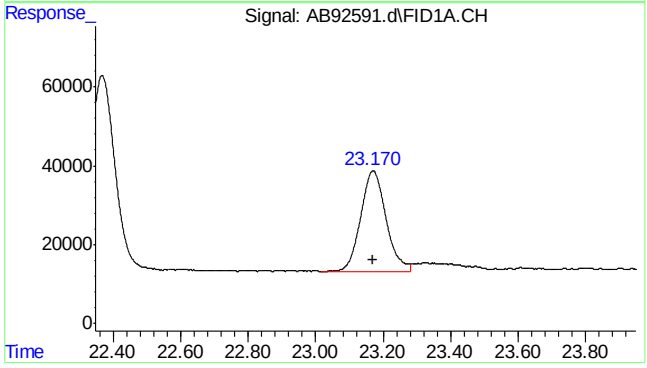
#13 ethylbenzene

R.T.: 22.223 min
Delta R.T.: 0.003 min
Response: 1269420
Conc: 1.94 ppb m



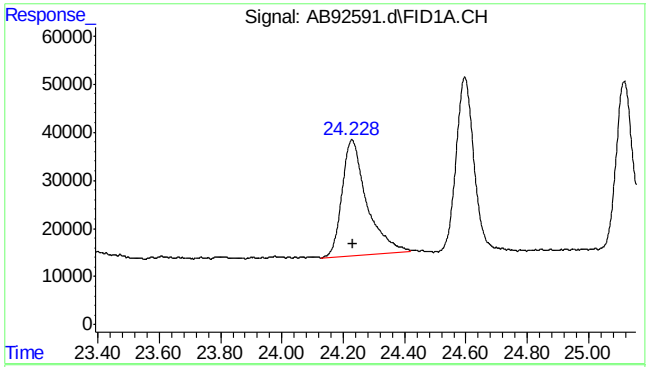
#14 m,p-xylene

R.T.: 22.365 min
Delta R.T.: 0.001 min
Response: 2661036
Conc: 3.91 ppb m



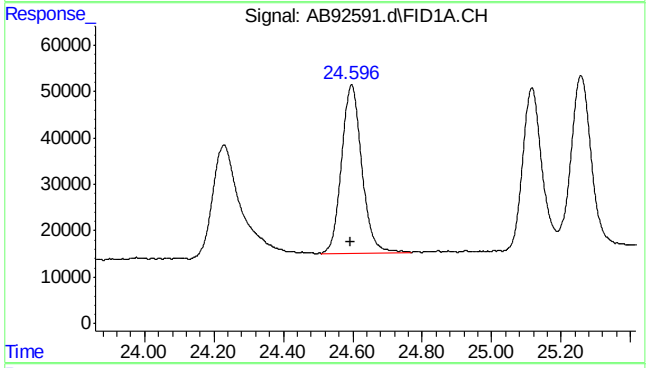
#15 o-xylene

R.T.: 23.170 min
Delta R.T.: 0.002 min
Response: 1342437
Conc: 1.97 ppb m



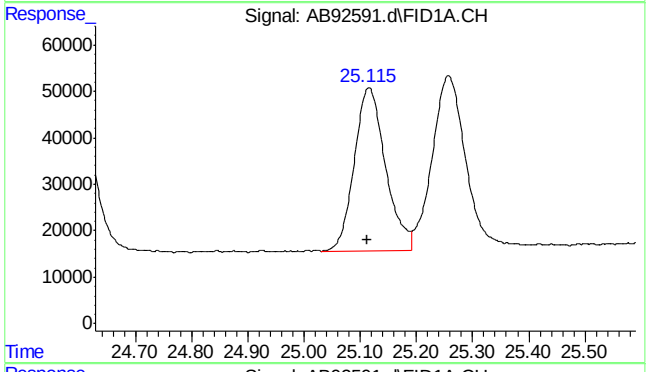
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 1363143
Conc: 2.17 ppb m



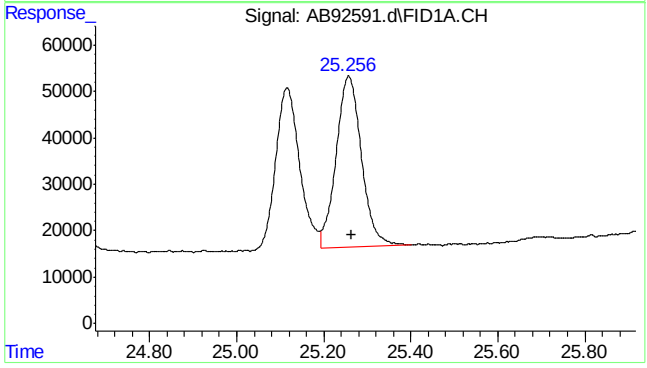
#17 1,3,5-trimethylbenzene

R.T.: 24.596 min
Delta R.T.: 0.000 min
Response: 1485425
Conc: 2.07 ppb m



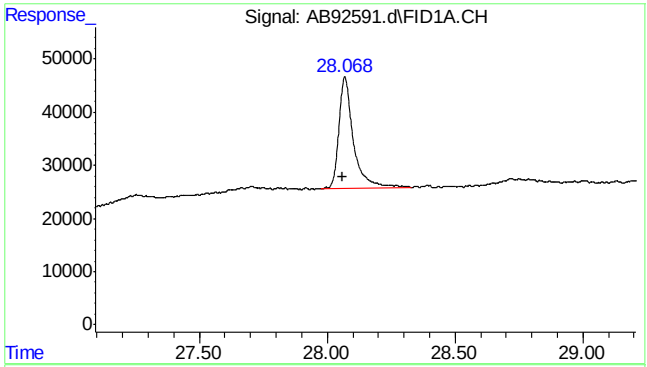
#18 1,2,4-trimethylbenzene

R.T.: 25.115 min
Delta R.T.: 0.002 min
Response: 1358128
Conc: 1.98 ppb m



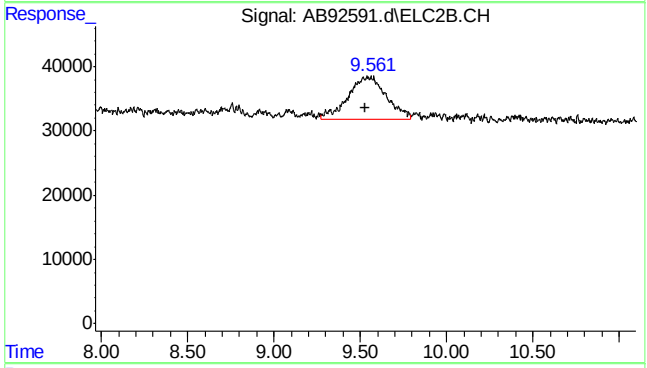
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 1487308
Conc: 2.22 ppb m



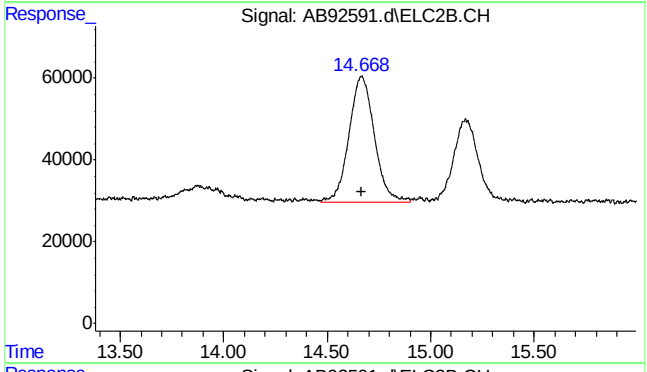
#20 naphthalene

R.T.: 28.068 min
Delta R.T.: 0.006 min
Response: 834686
Conc: 2.23 ppb m



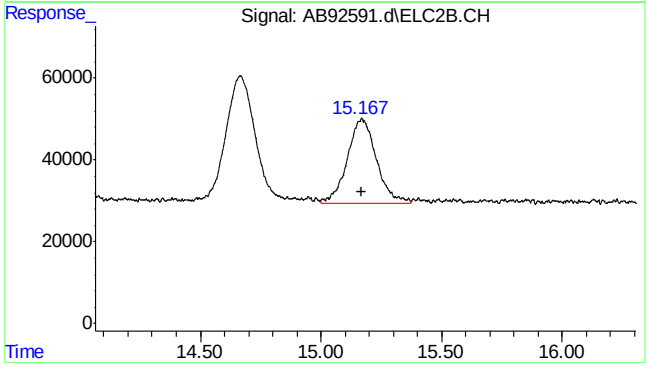
#23 mtbe #2

R.T.: 9.561 min
Delta R.T.: 0.032 min
Response: 1012871
Conc: 1.95 ppb m



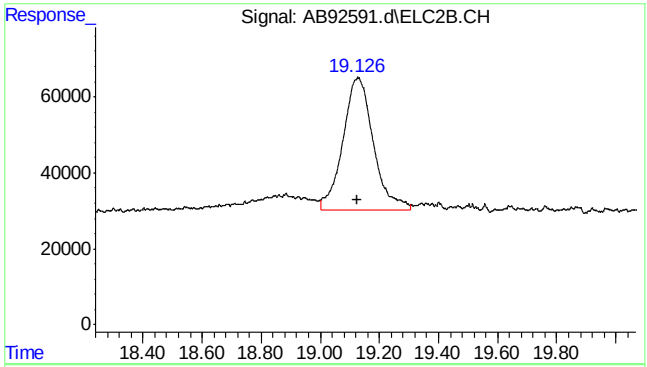
#24 benzene #2

R.T.: 14.668 min
Delta R.T.: 0.002 min
Response: 2639435
Conc: 1.88 ppb m



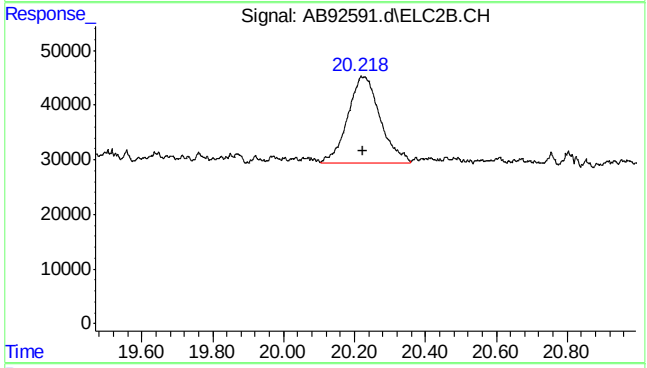
#25 fluorobenzene #2

R.T.: 15.167 min
Delta R.T.: -0.004 min
Response: 1721246
Conc: 1.97 ppb m



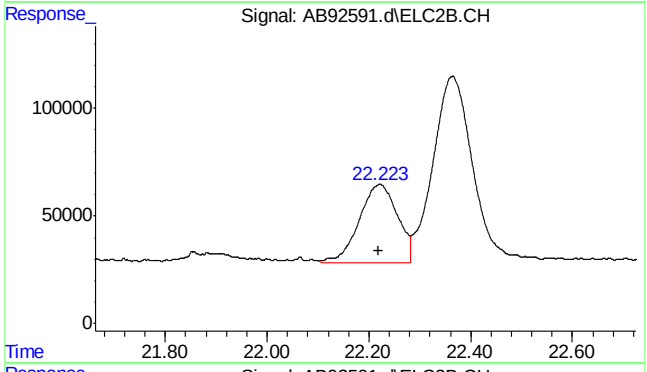
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 2524690
Conc: 2.07 ppb m



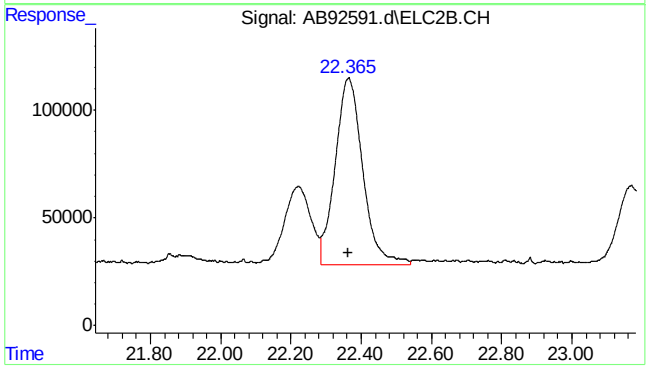
#27 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: -0.005 min
Response: 995138
Conc: 2.10 ppb m



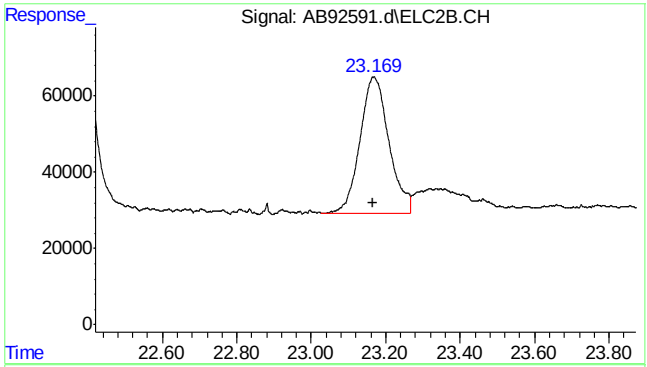
#28 ethylbenzene #2

R.T.: 22.223 min
Delta R.T.: 0.004 min
Response: 1889943
Conc: 1.89 ppb m



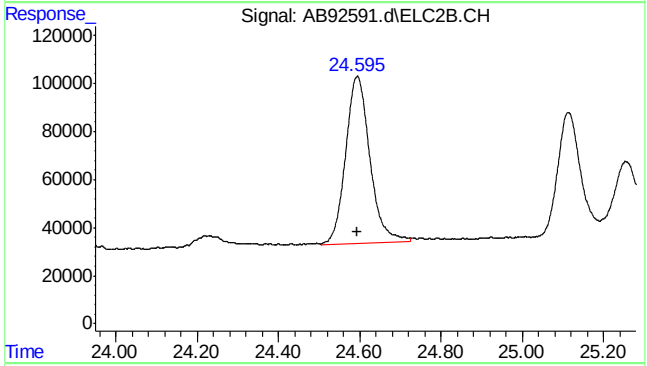
#29 m,p-xylene #2

R.T.: 22.365 min
Delta R.T.: 0.003 min
Response: 4718026
Conc: 3.85 ppb m



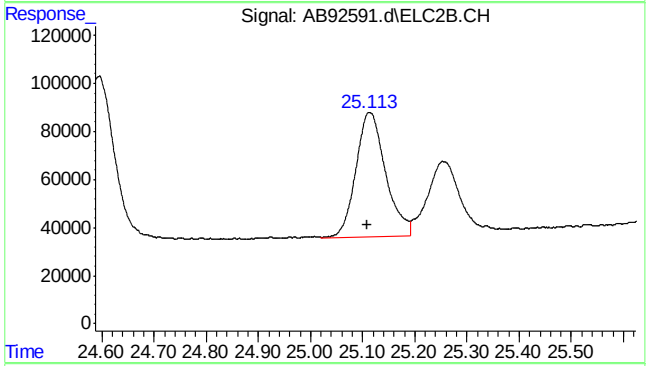
#30 o-xylene #2

R.T.: 23.169 min
Delta R.T.: 0.002 min
Response: 1948764
Conc: 1.93 ppb m



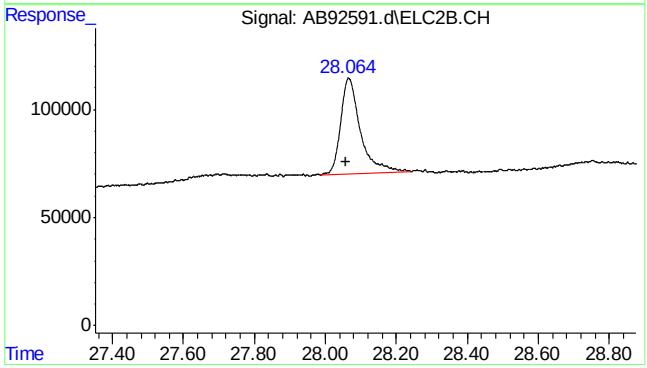
#31 1,3,5-trimethylbenzene #2

R.T.: 24.595 min
Delta R.T.: 0.002 min
Response: 2878673
Conc: 2.01 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.113 min
Delta R.T.: 0.003 min
Response: 2057662
Conc: 1.94 ppb m



#33 naphthalene #2

R.T.: 28.064 min
Delta R.T.: 0.005 min
Response: 1726017
Conc: 2.11 ppb m

7.5.8

7

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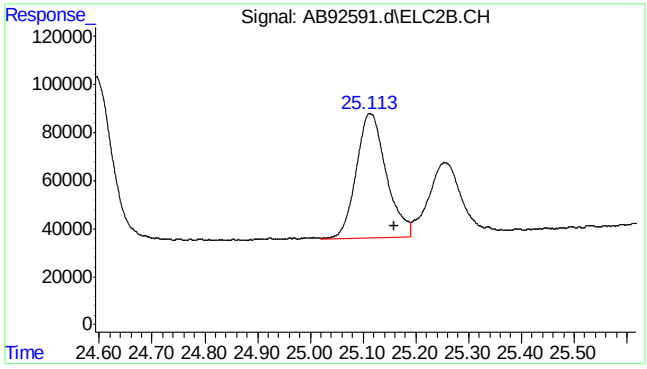


#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.160 min
Delta R.T.:	0.000 min
Response:	2046058
Conc:	1.92 ppb m

7.5.8

7

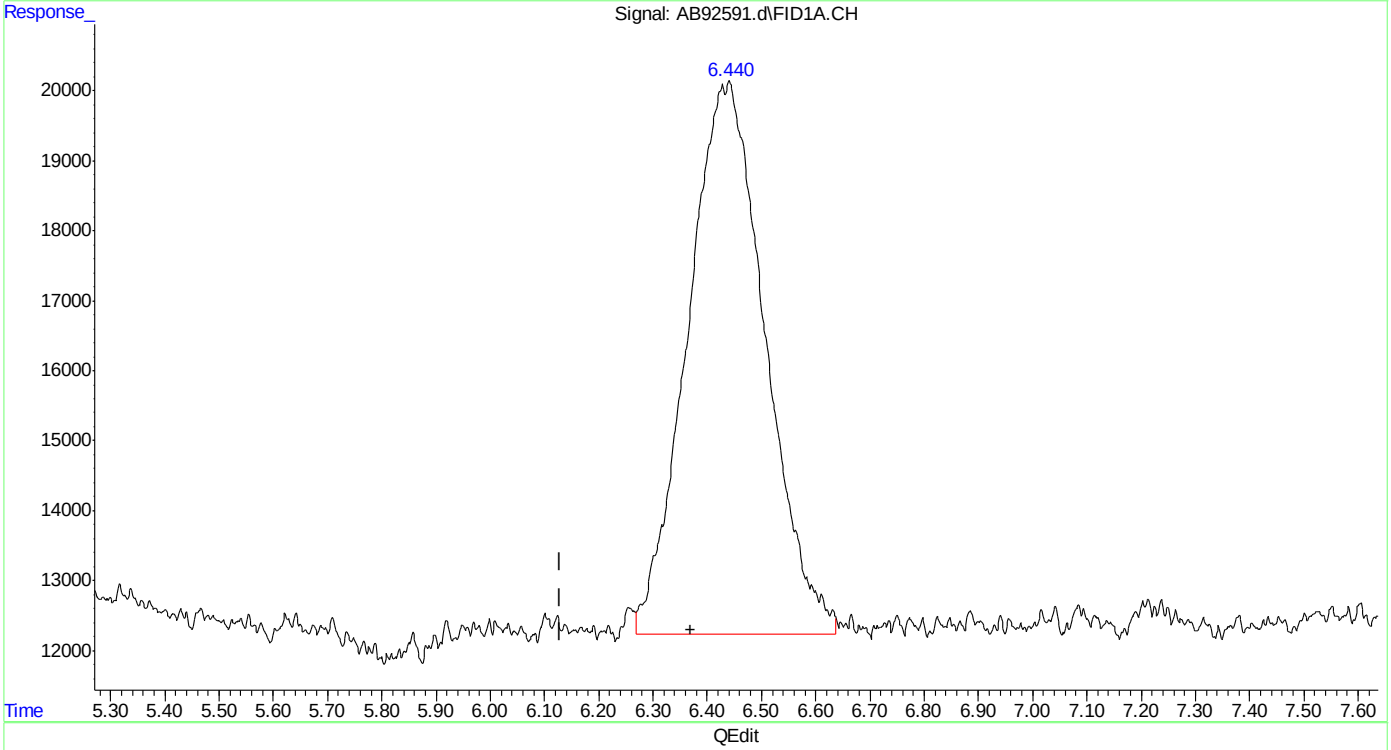
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(1) rt5.5-7 (h)
6.370min 2.108 ppb m
response 782177

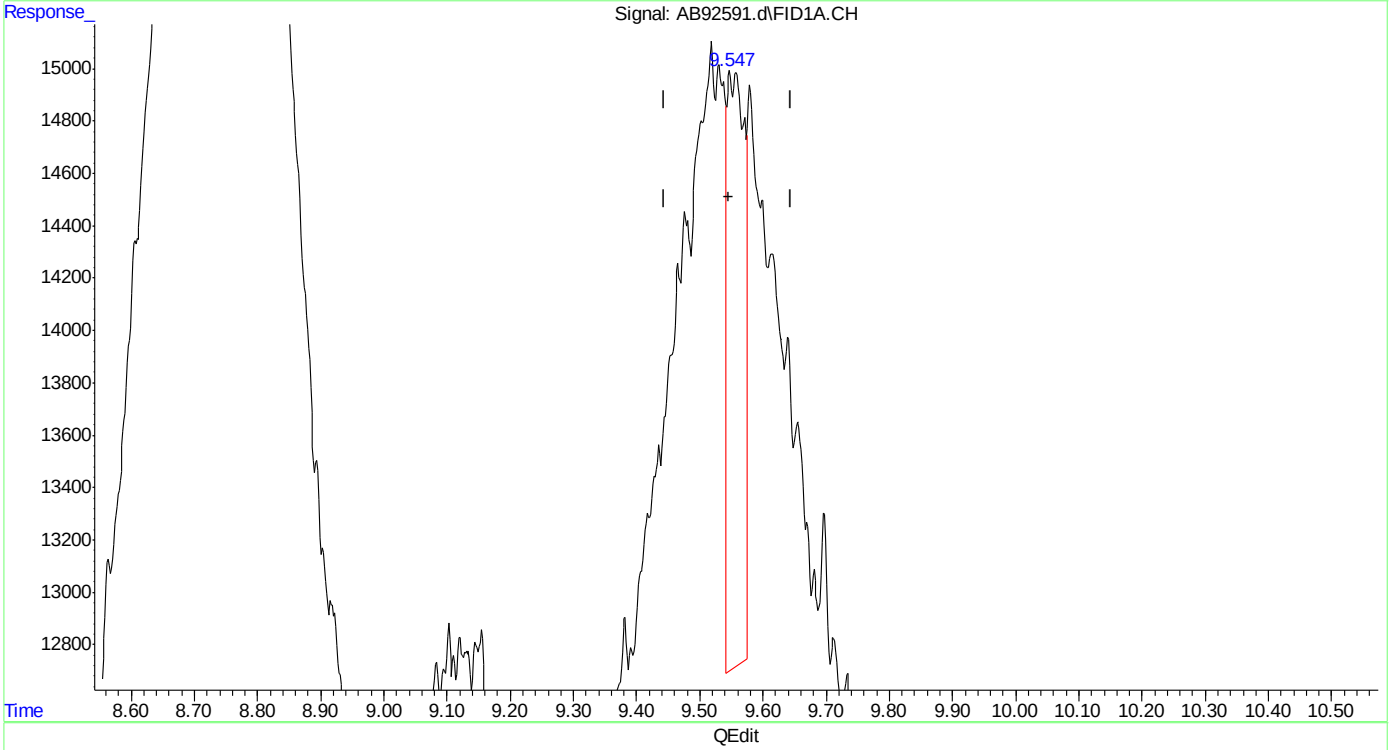
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.548min 0.194 ppb
response 42870

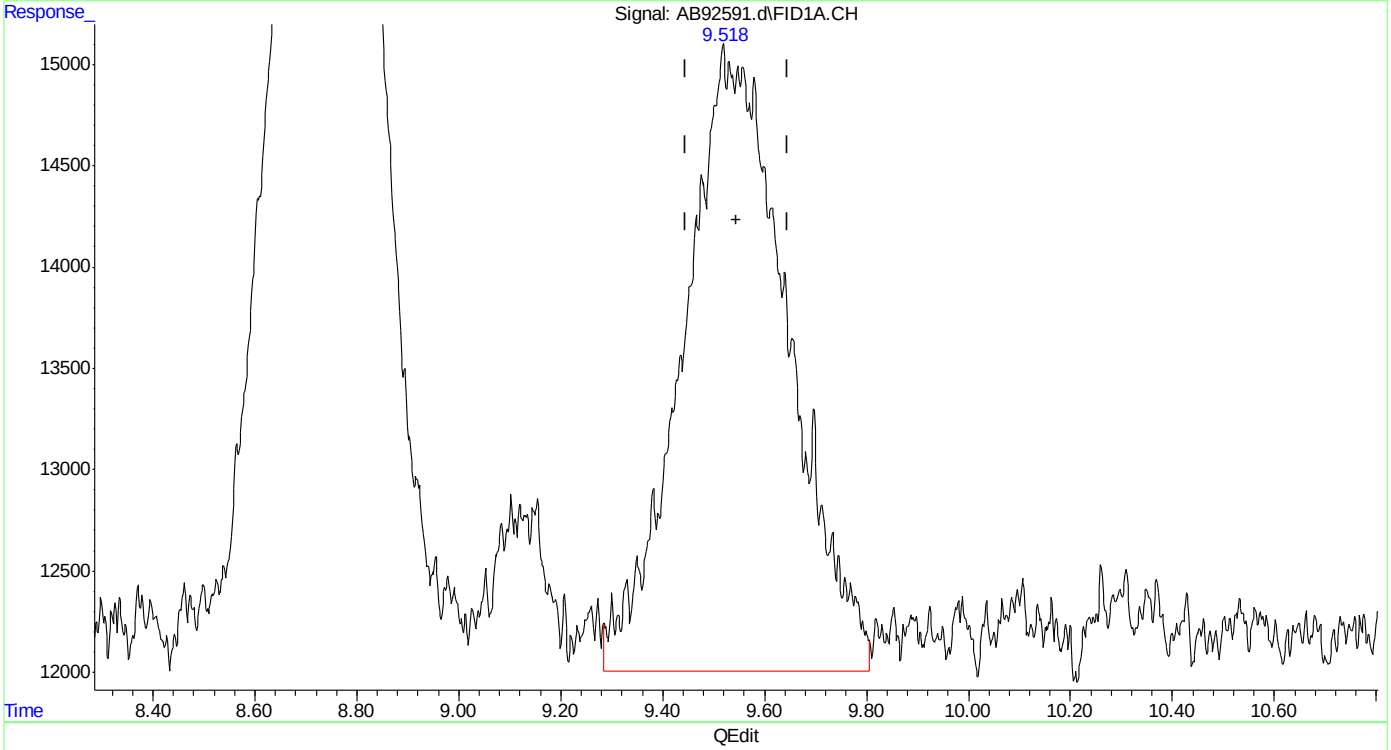
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:09 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.518min 1.996 ppb m
response 440739

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:57 2016

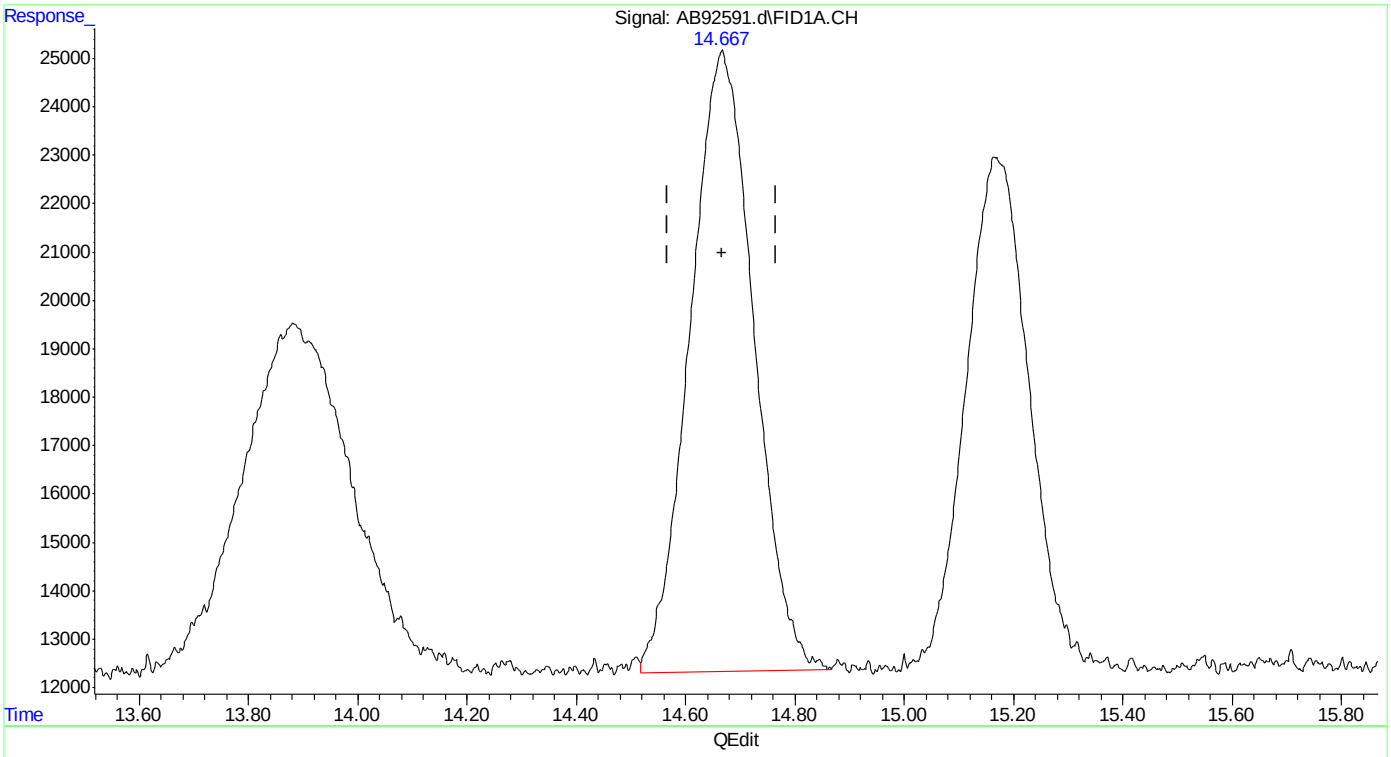
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene
14.667min 1.864 ppb
response 1040324

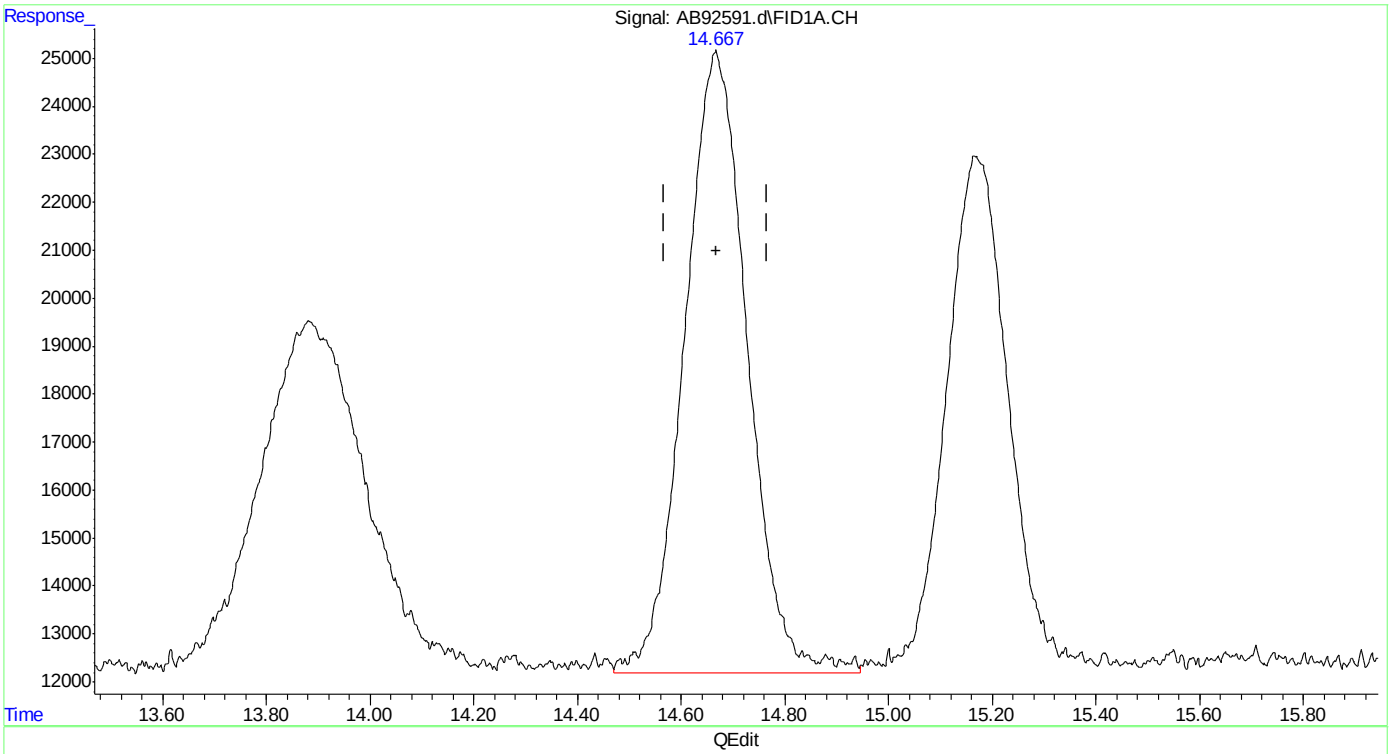
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene
14.667min 1.956 ppb m
response 1091864

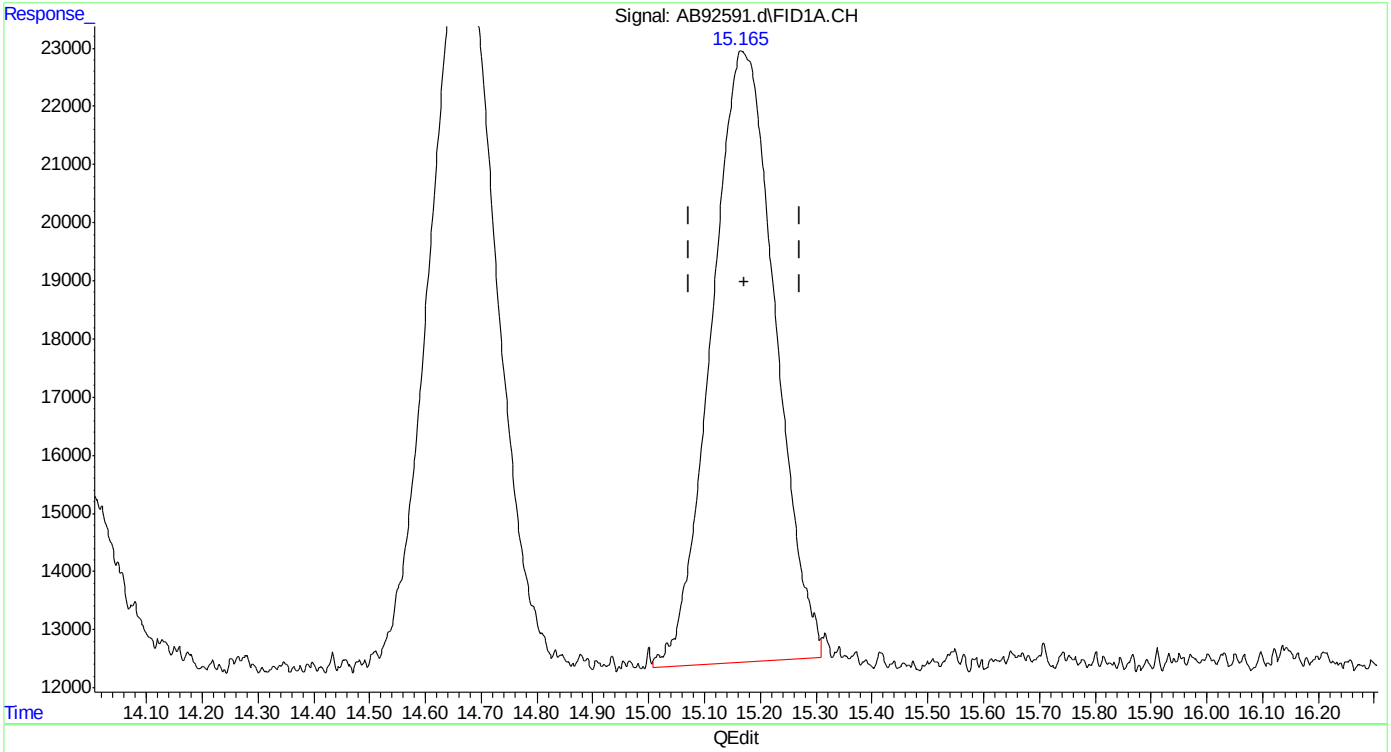
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:48 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
15.166min 1.897 ppb
response 833597

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:51 2016

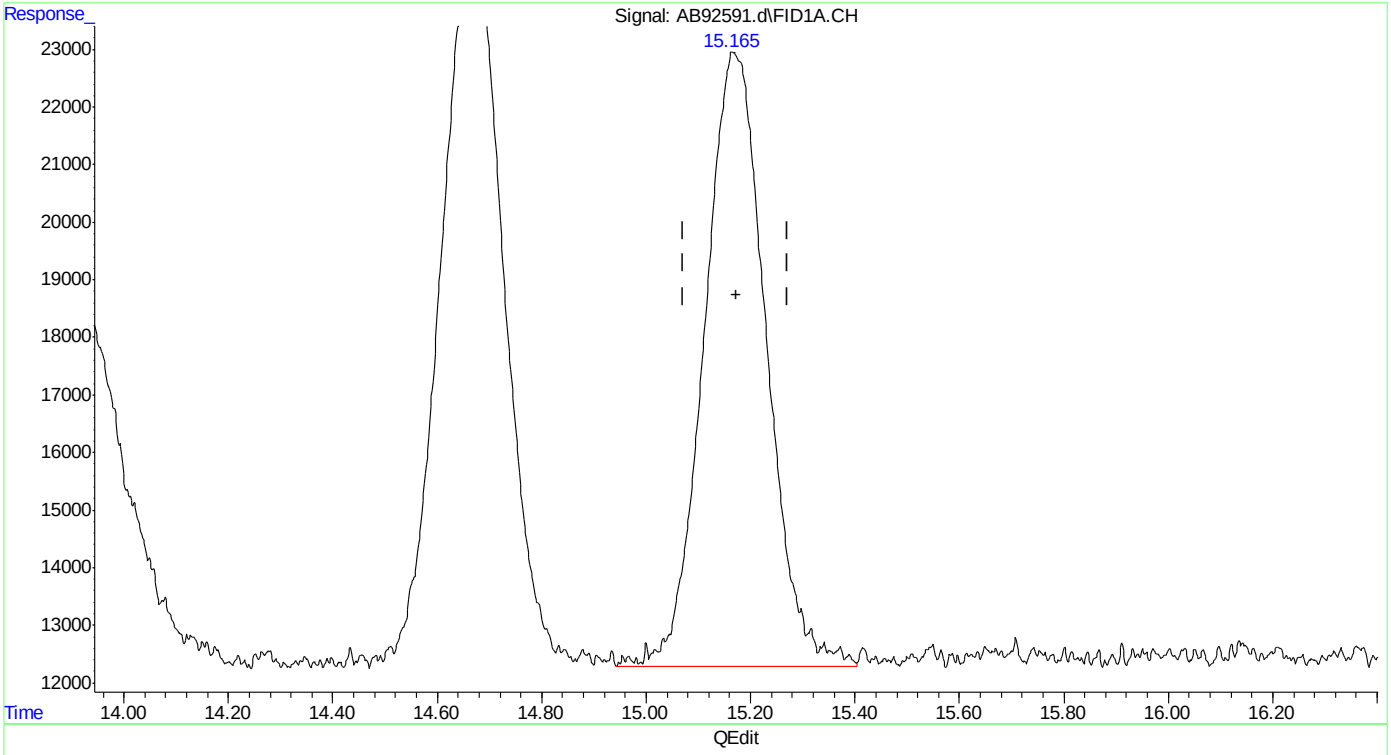
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
15.165min 2.008 ppb m
response 882607

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:18 2016

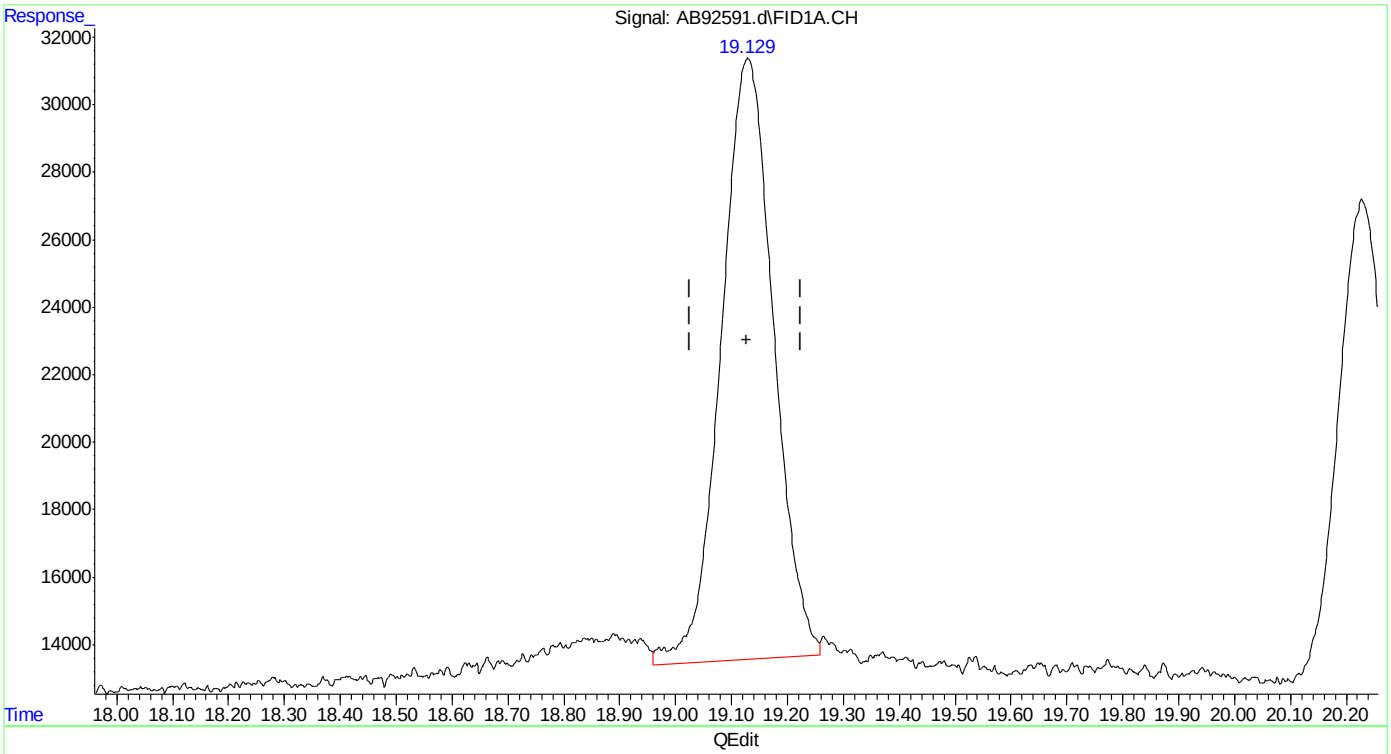
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
19.130min 1.885 ppb
response 1158268

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:25 2016

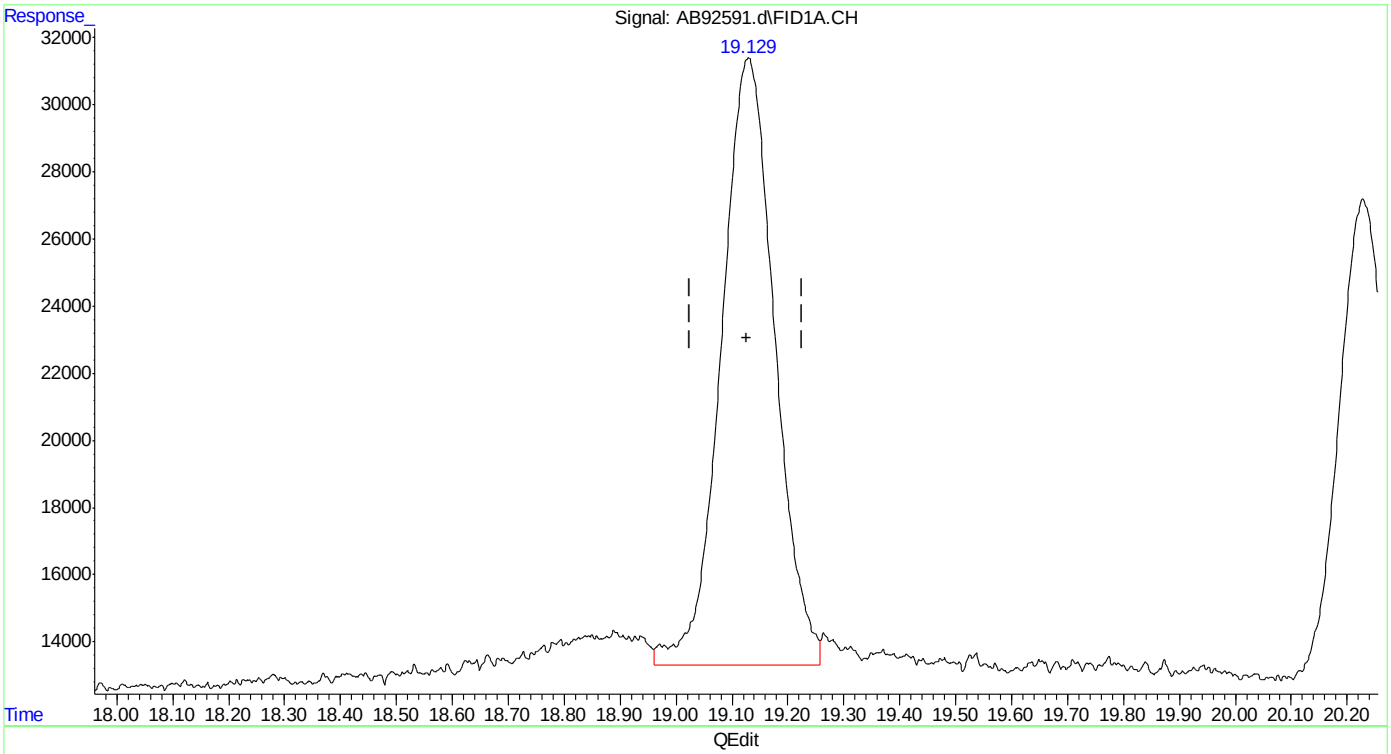
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
19.129min 1.955 ppb m
response 1201255

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:41 2016

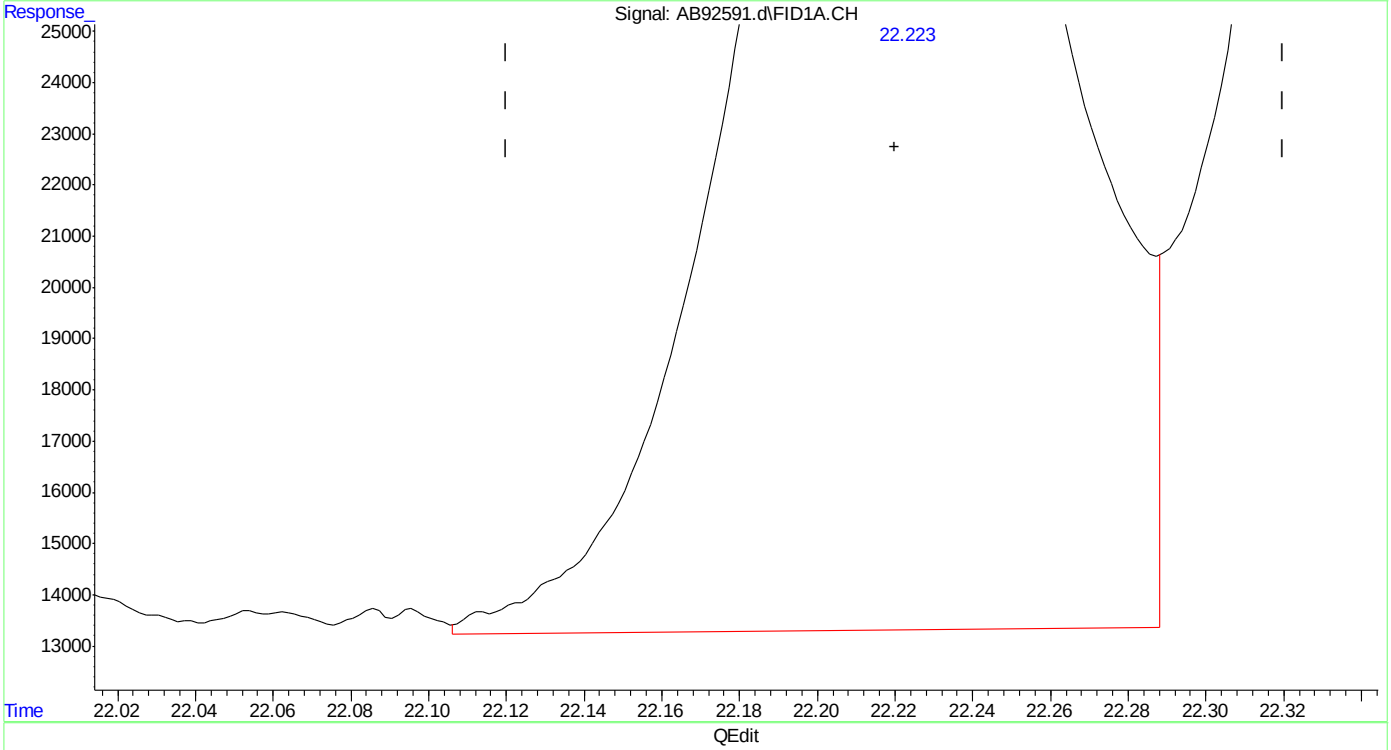
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) ethylbenzene
22.223min 1.895 ppb
response 1238375

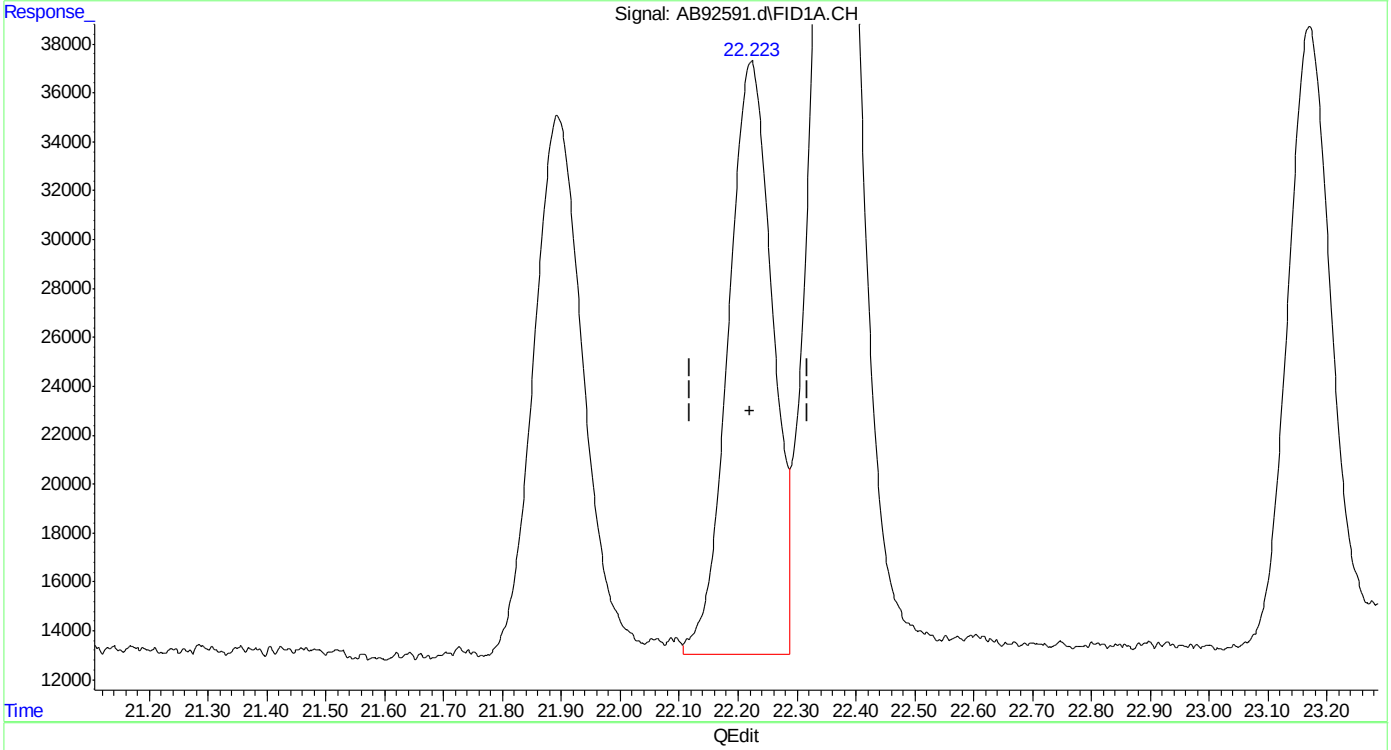
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) ethylbenzene
22.223min 1.942 ppb m
response 1269420

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:22:43 2016

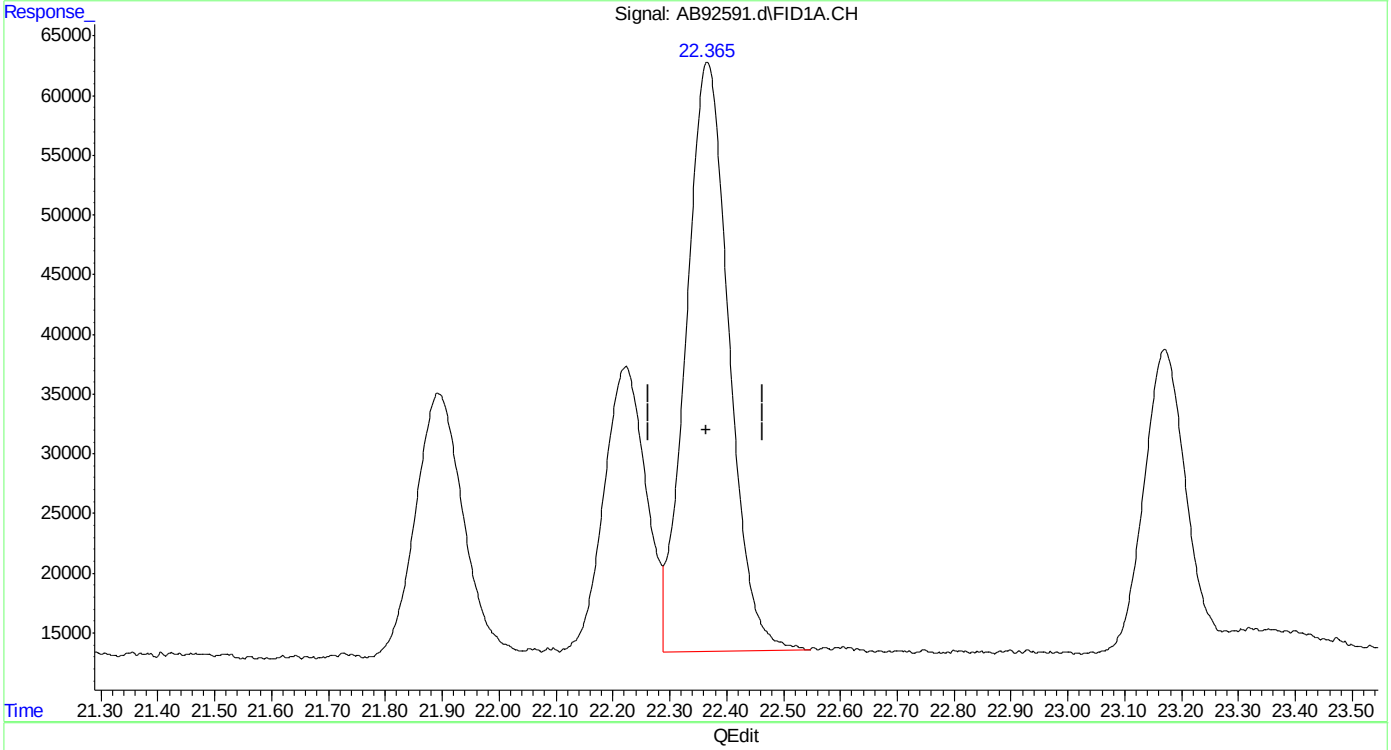
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) m,p-xylene
22.366min 3.809 ppb
response 2592627

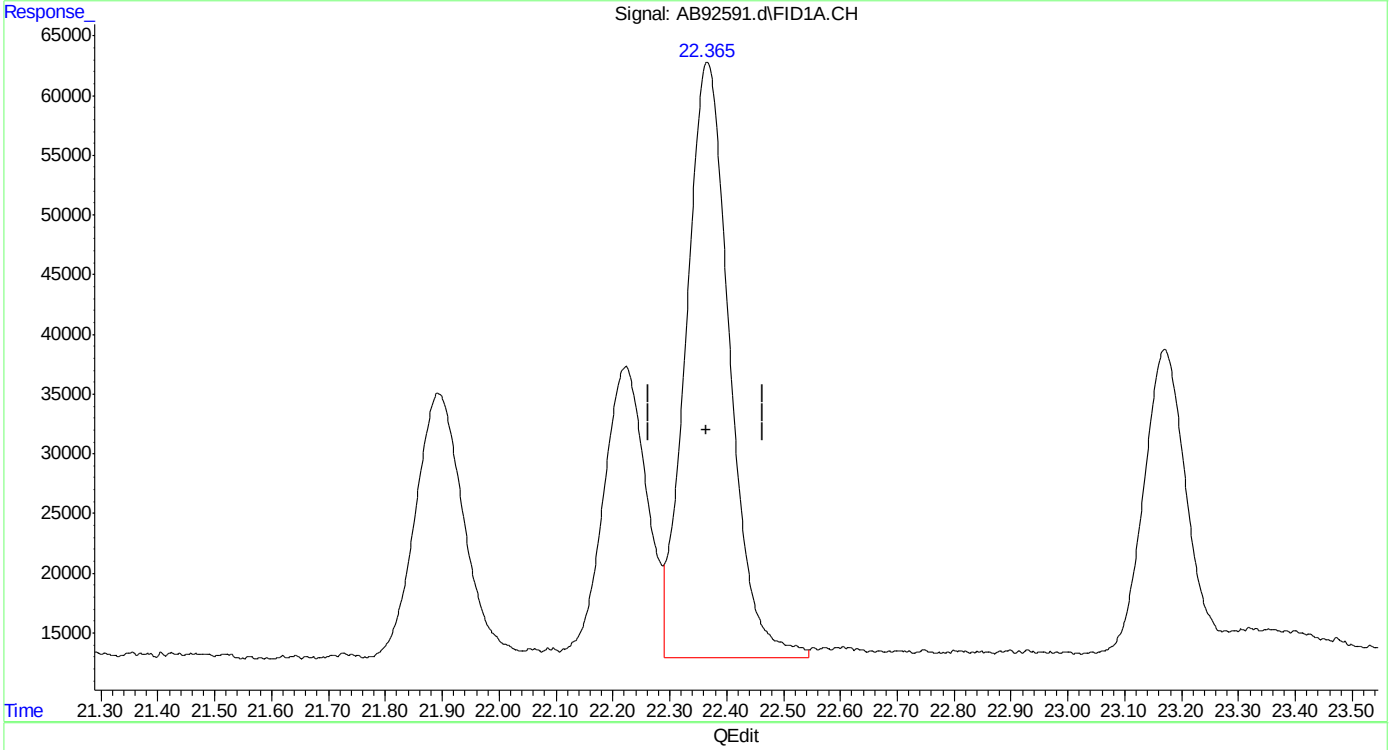
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) m,p-xylene
22.365min 3.910 ppb m
response 2661036

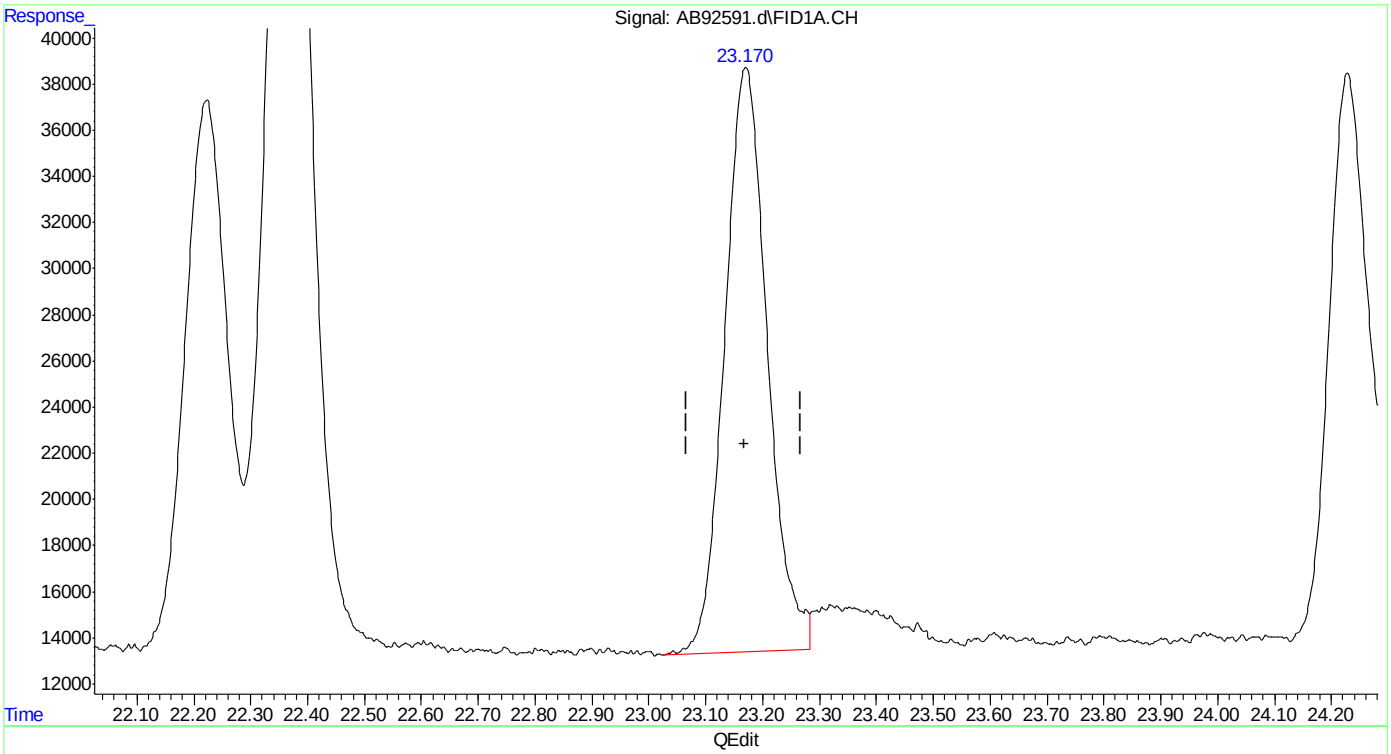
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.170min 1.938 ppb
response 1321423

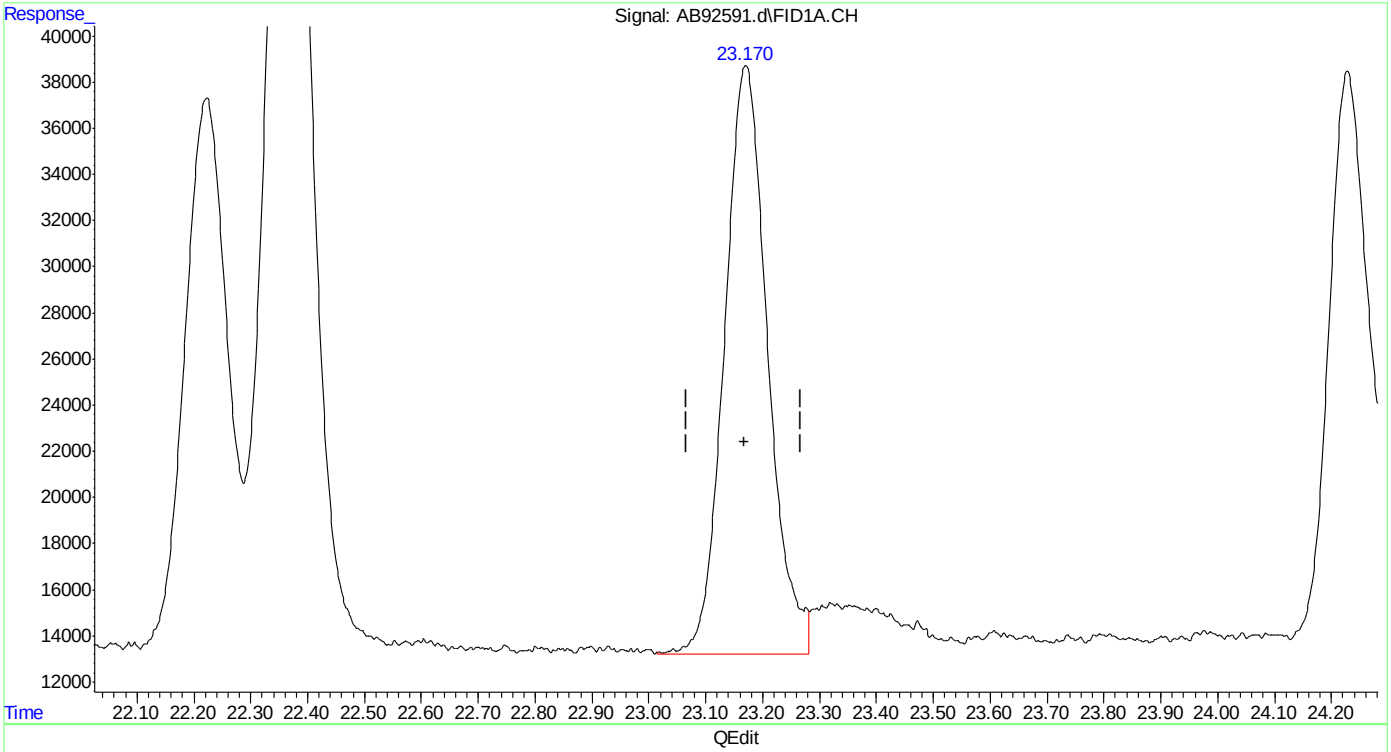
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.170min 1.969 ppb m
response 1342437

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:10 2016

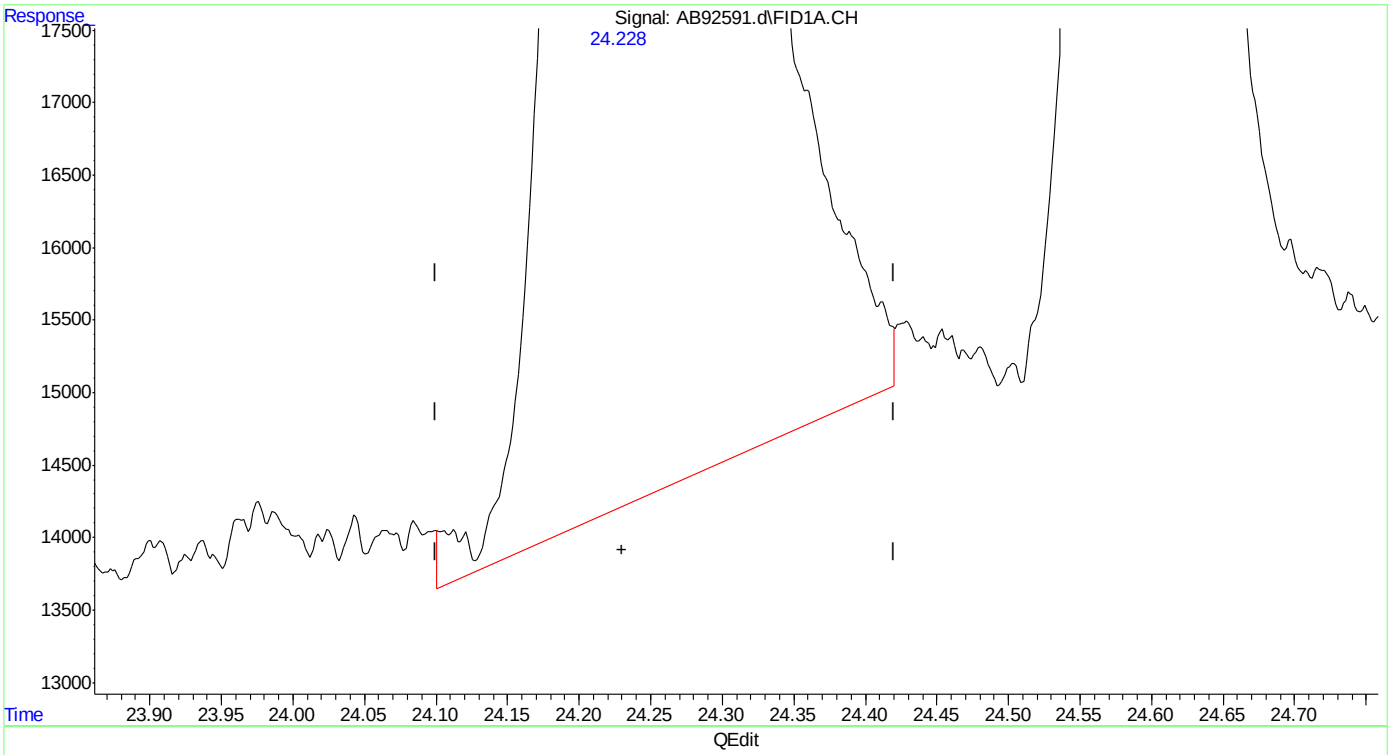
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(16) decane (h)
24.230min 2.202 ppb
response 1381186

(+) = Expected Retention Time

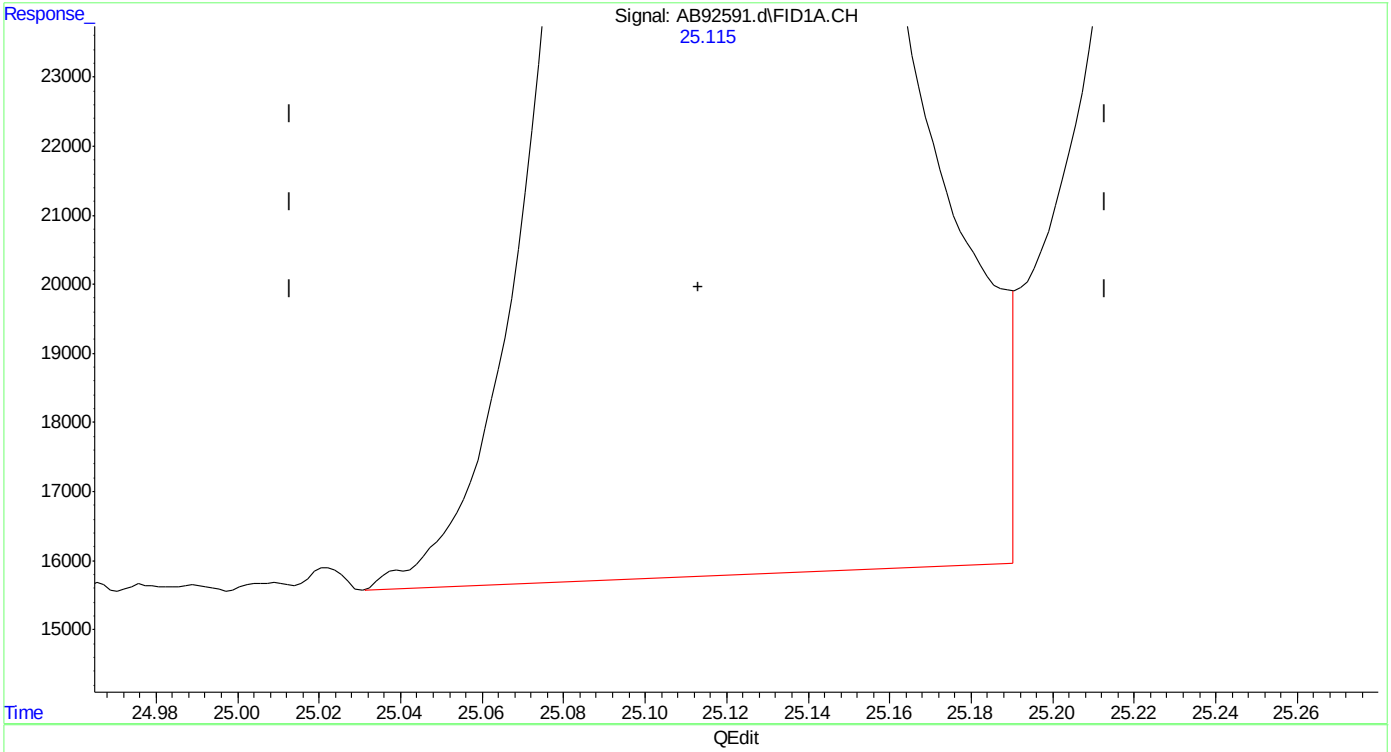
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.116min 1.961 ppb
response 1348010

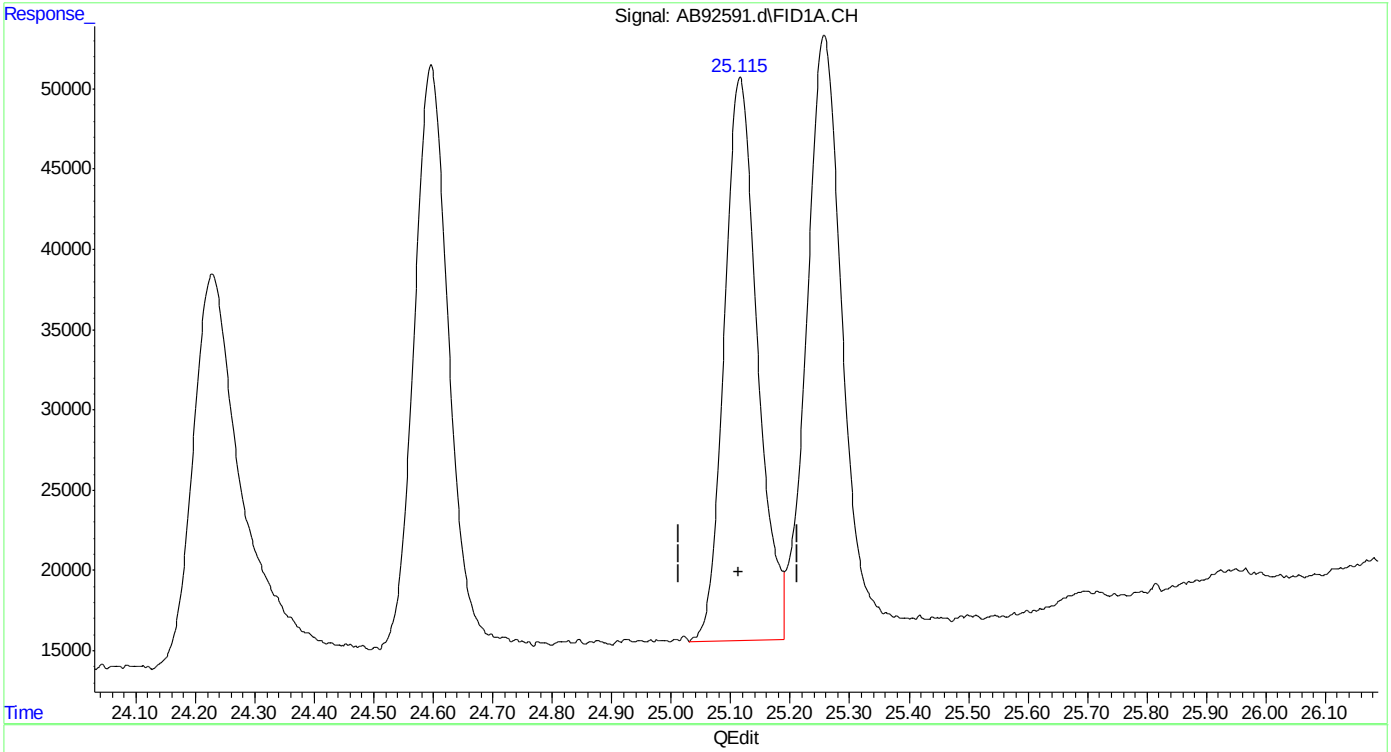
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.115min 1.976 ppb m
response 1358128

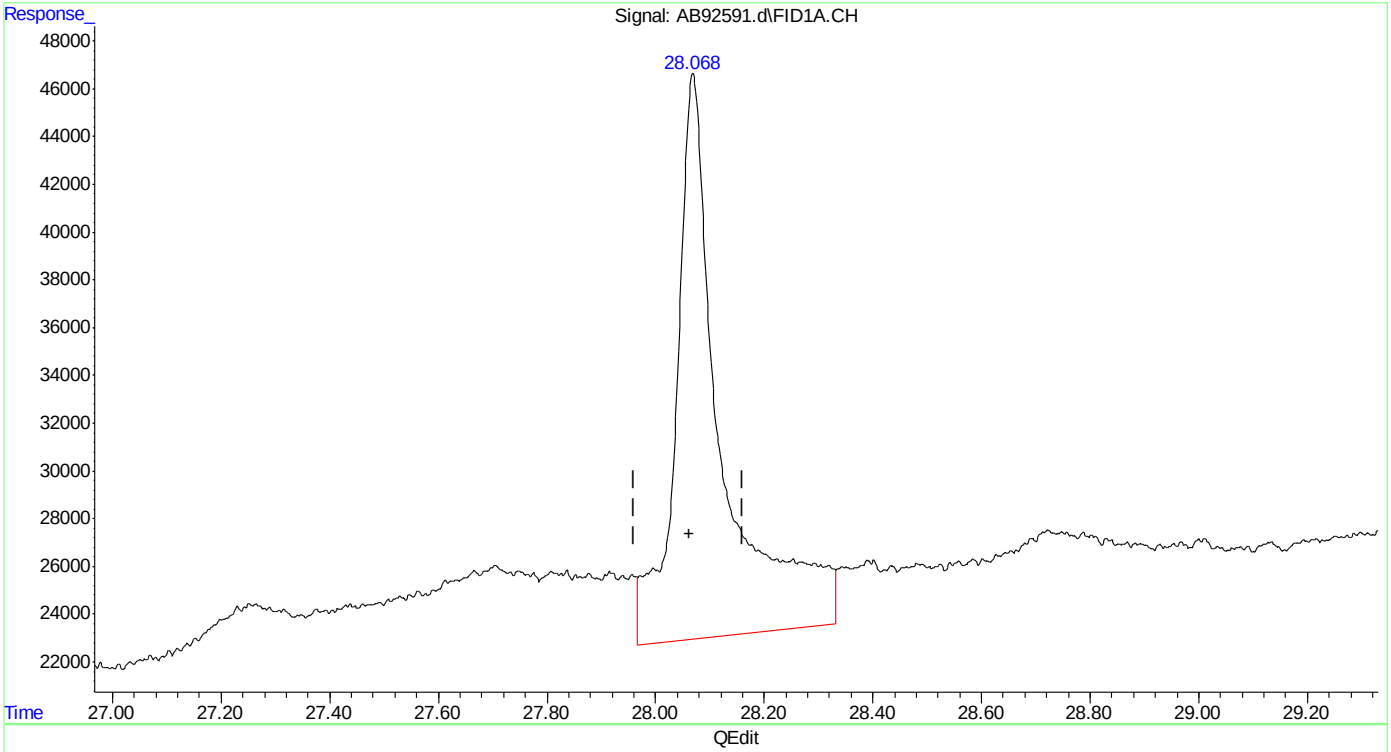
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.069min 3.731 ppb
response 1394371

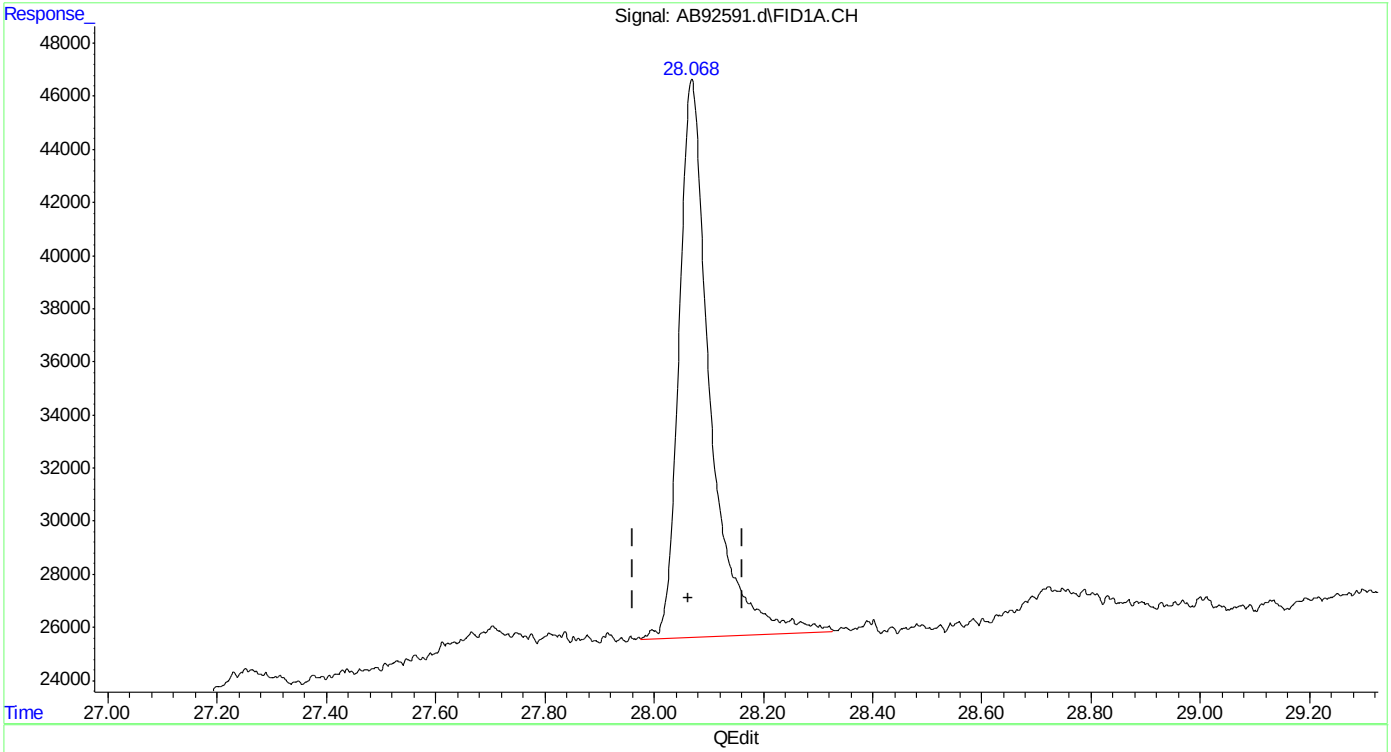
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.068min 2.234 ppb m
response 834686

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:24:53 2016

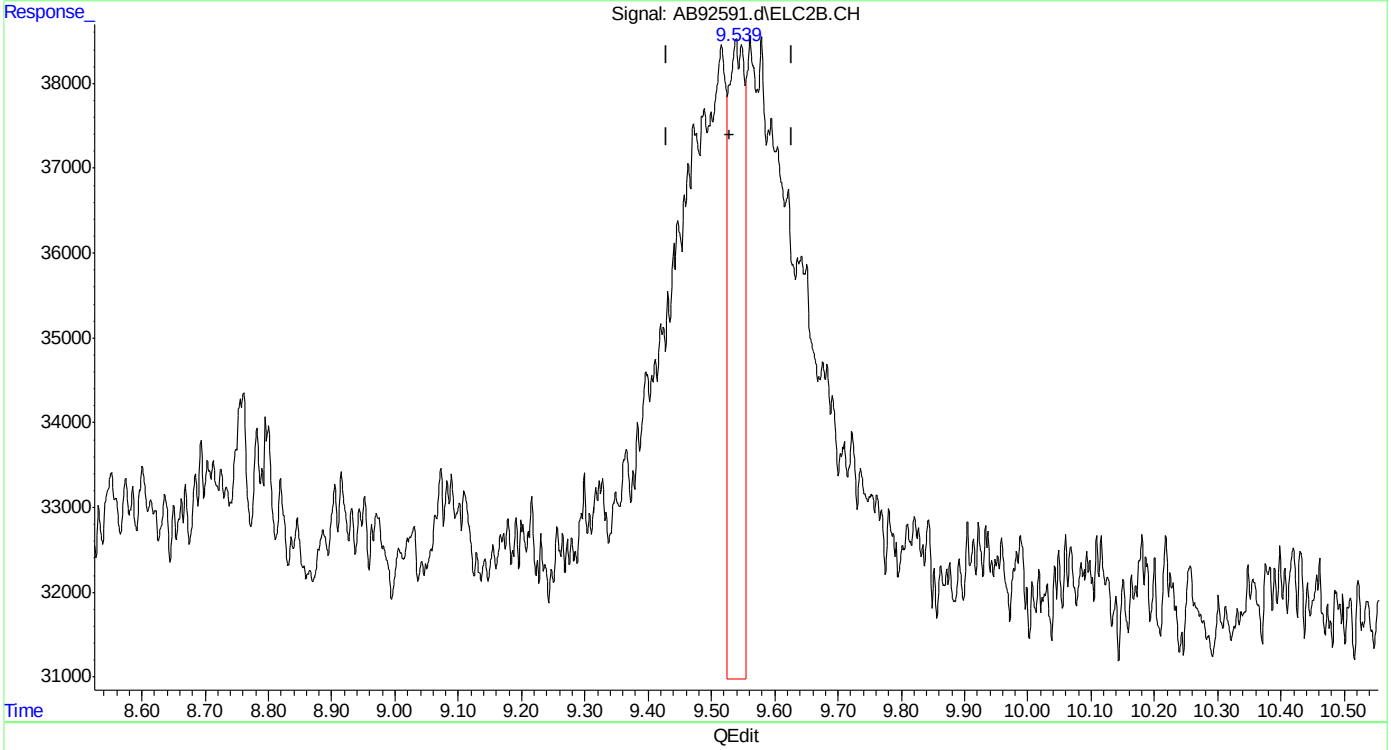
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.539min 0.241 ppb
response 125090

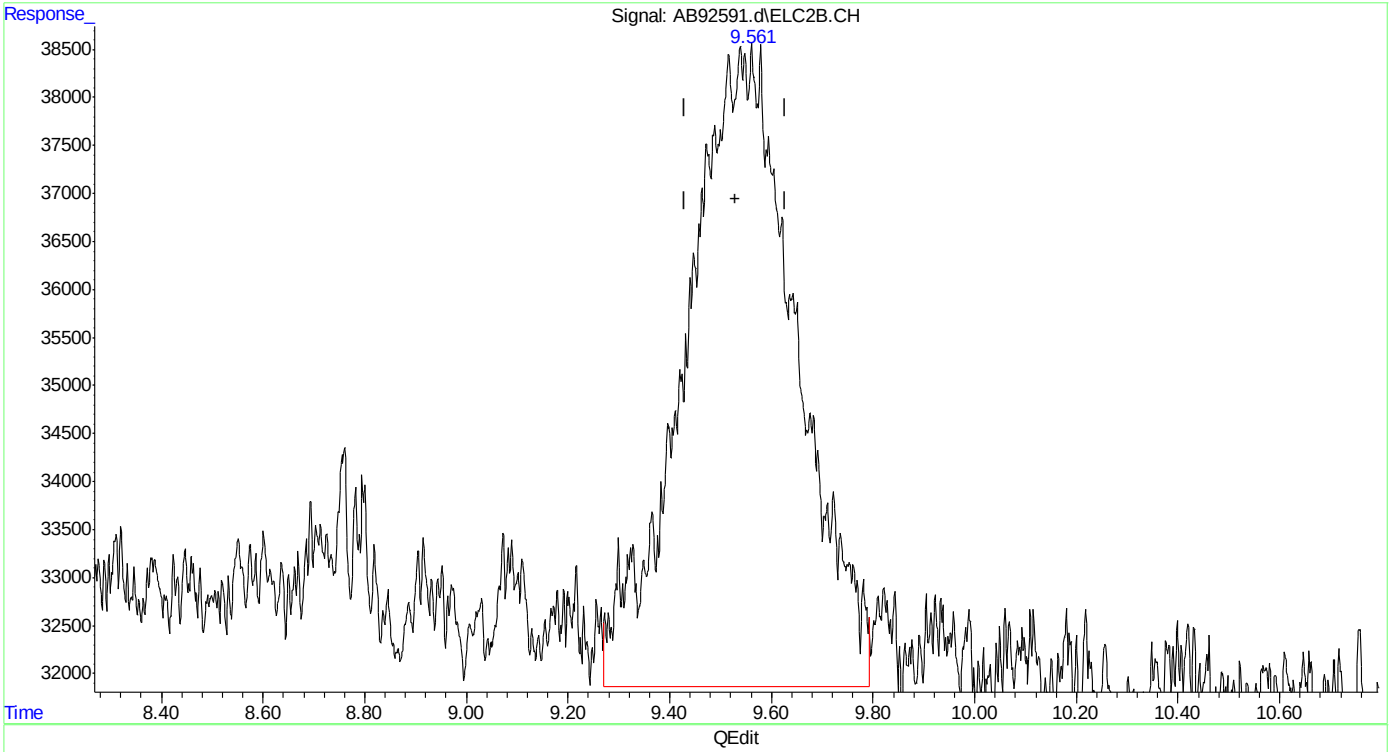
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.561min 1.952 ppb m
response 1012871

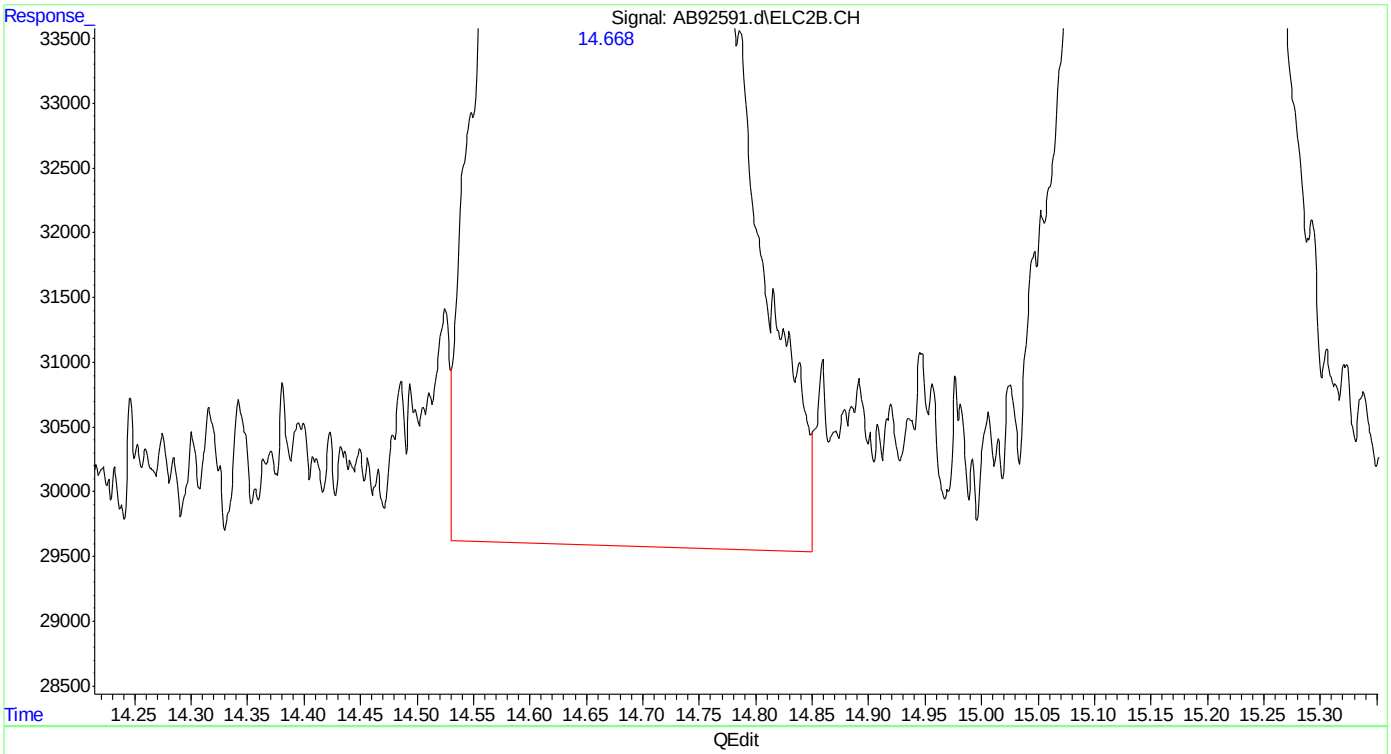
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:26 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
14.667min 1.846 ppb
response 2587232

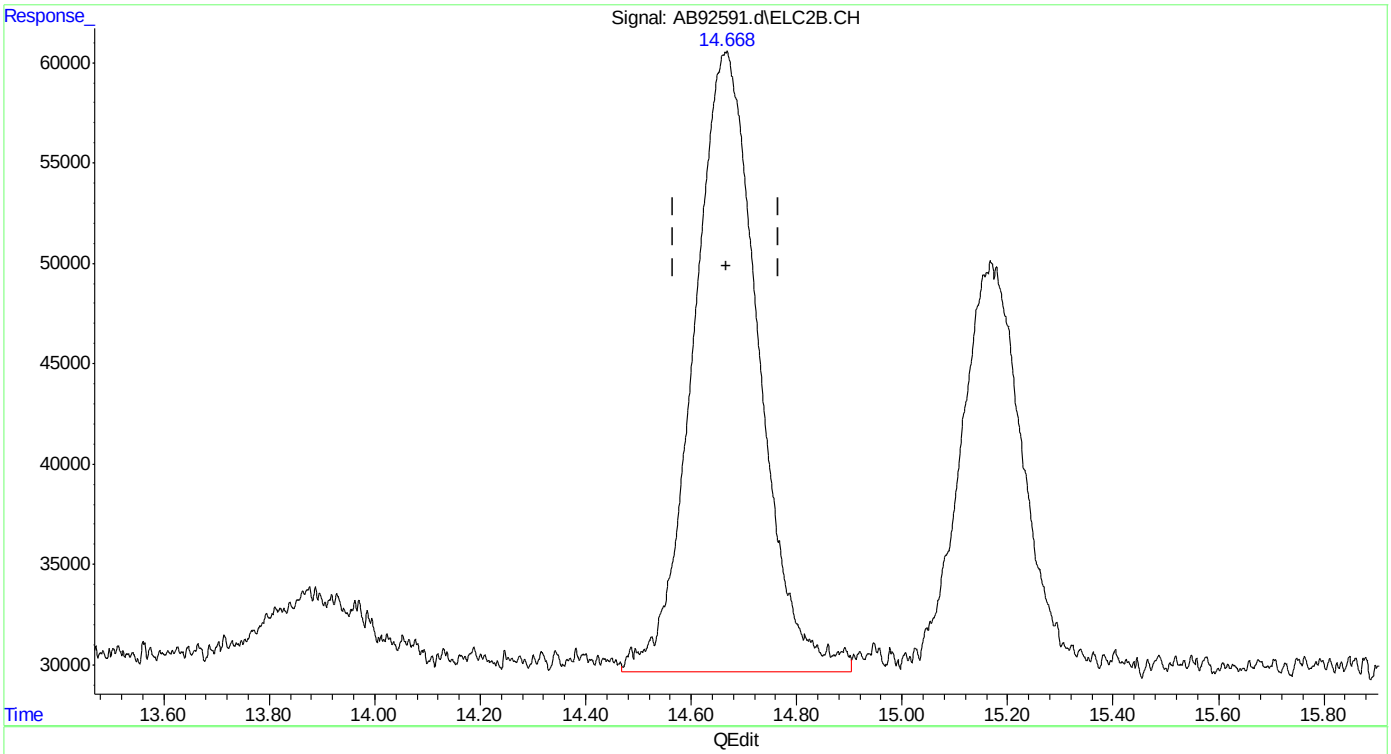
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
14.668min 1.883 ppb m
response 2639435

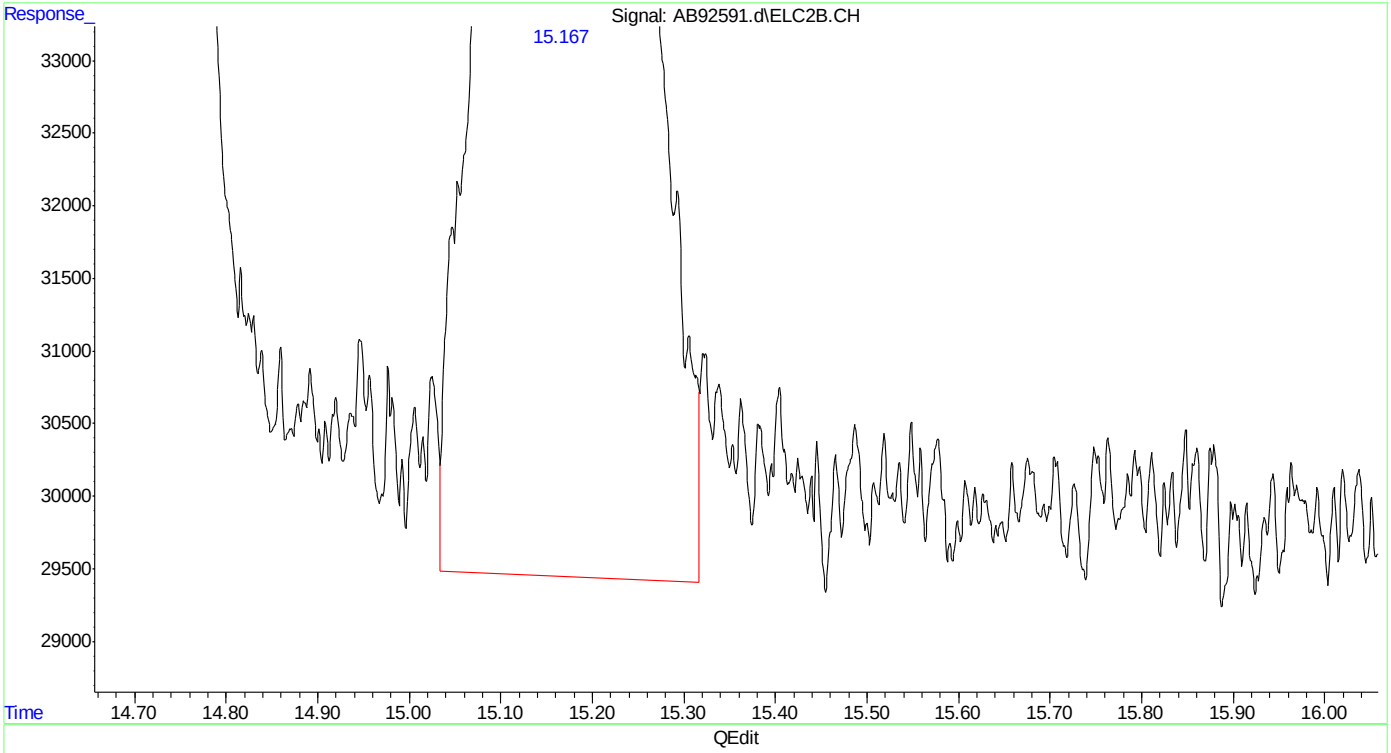
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
15.168min 1.912 ppb
response 1672167

(+) = Expected Retention Time

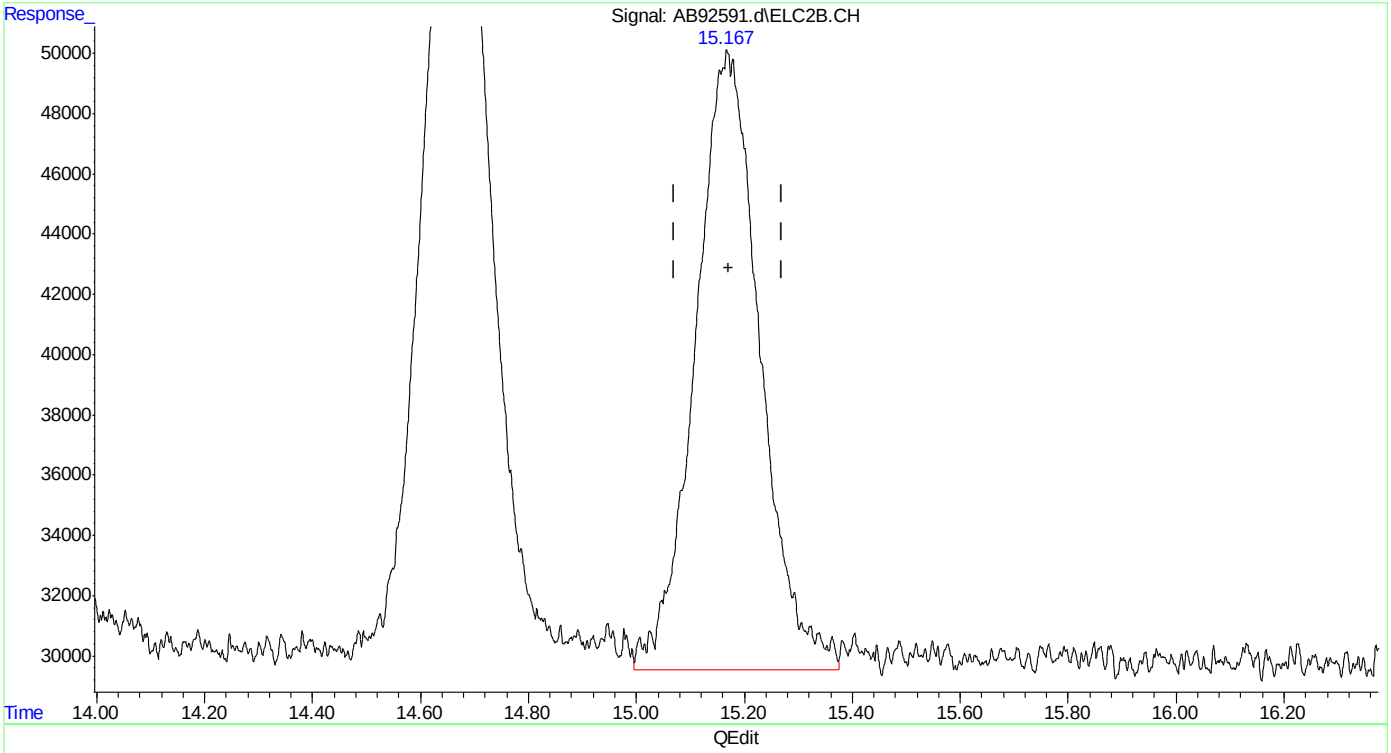
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
15.167min 1.949 ppb m
response 1704376

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:12 2016 Page: 1

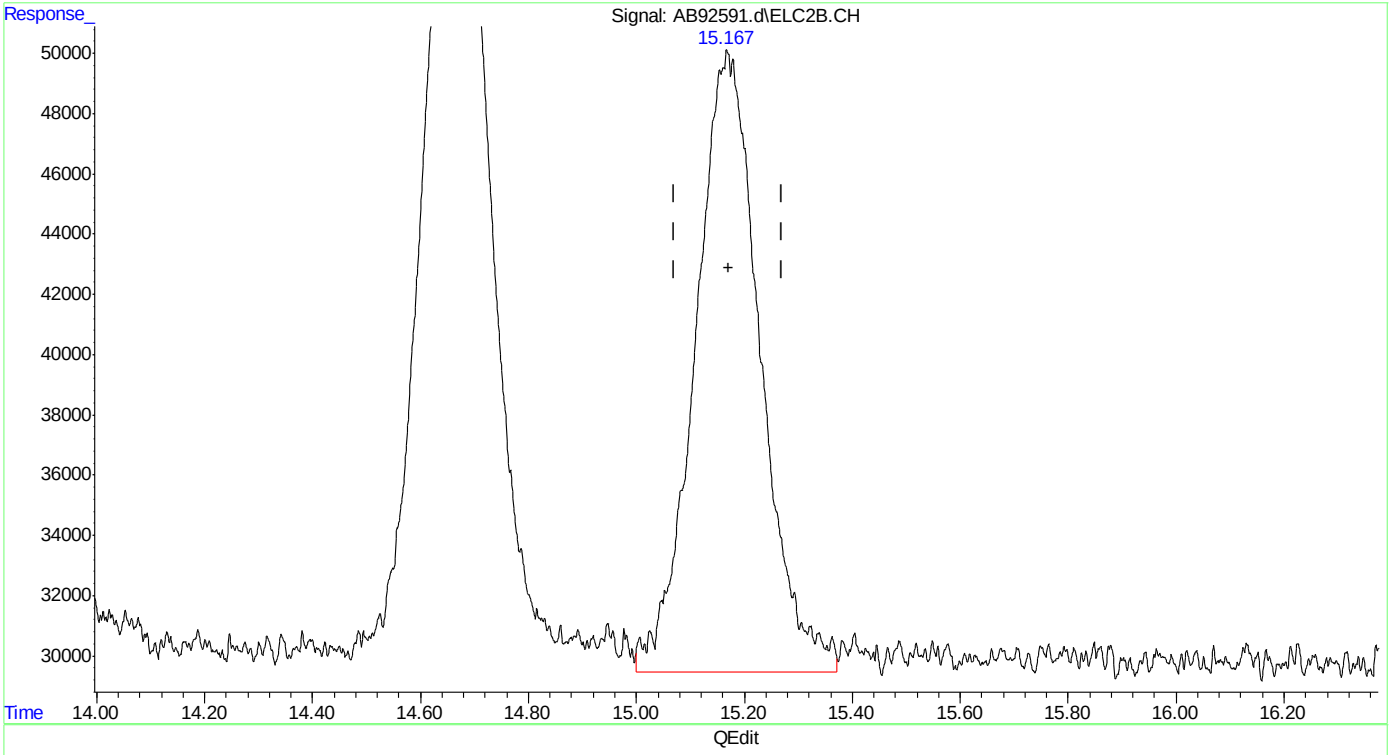
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
15.167min 1.968 ppb m
response 1721246

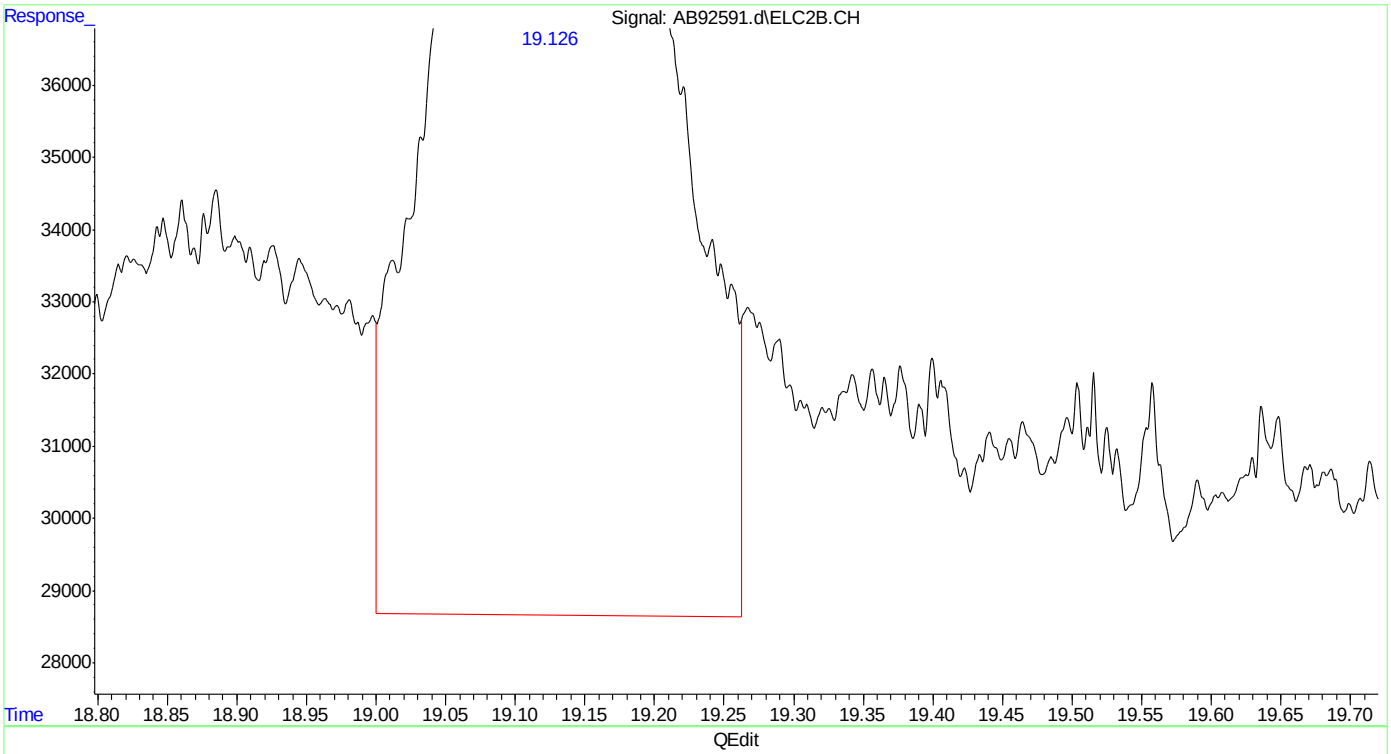
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
19.126min 2.210 ppb
response 2694419

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:28 2016

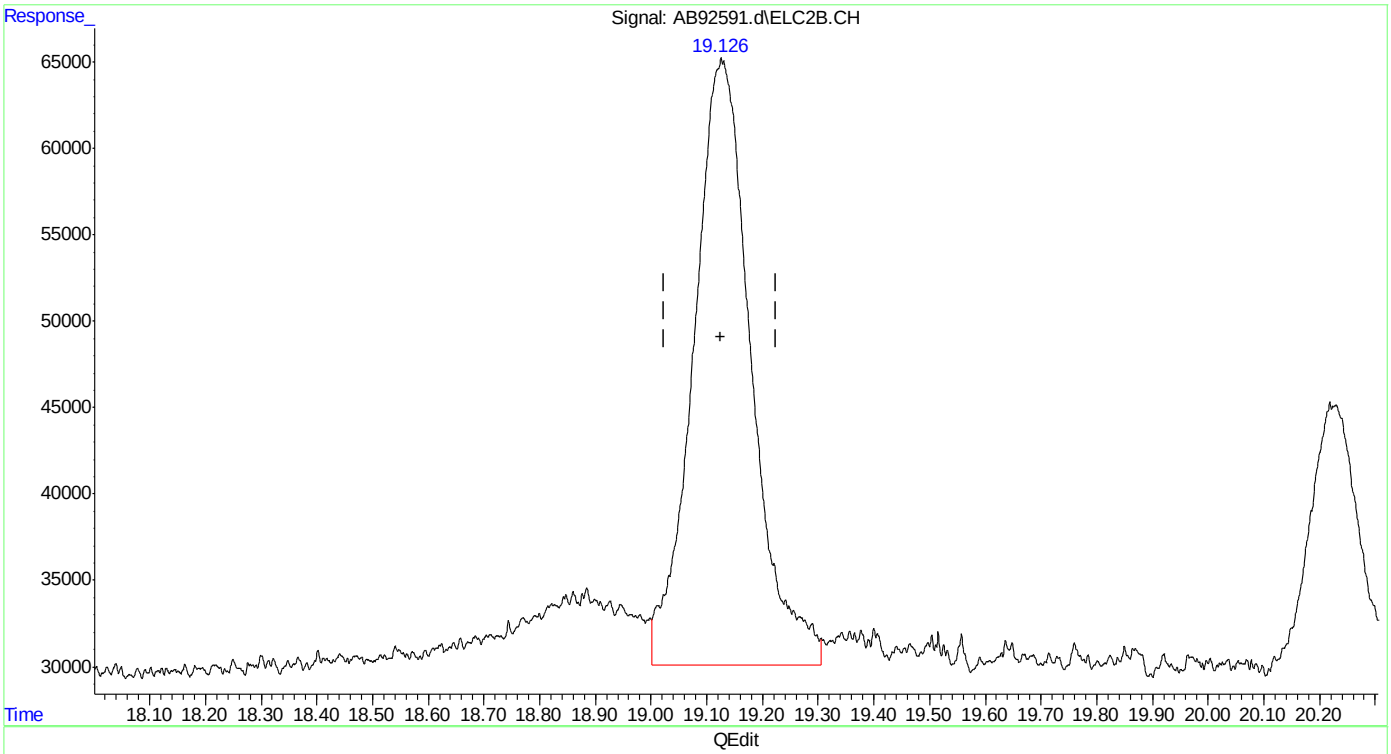
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:47:46
Operator  : haleyn
Sample    : ic5058-2
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2

19.126min 2.070 ppb m

response 2524690

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:26:37 2016

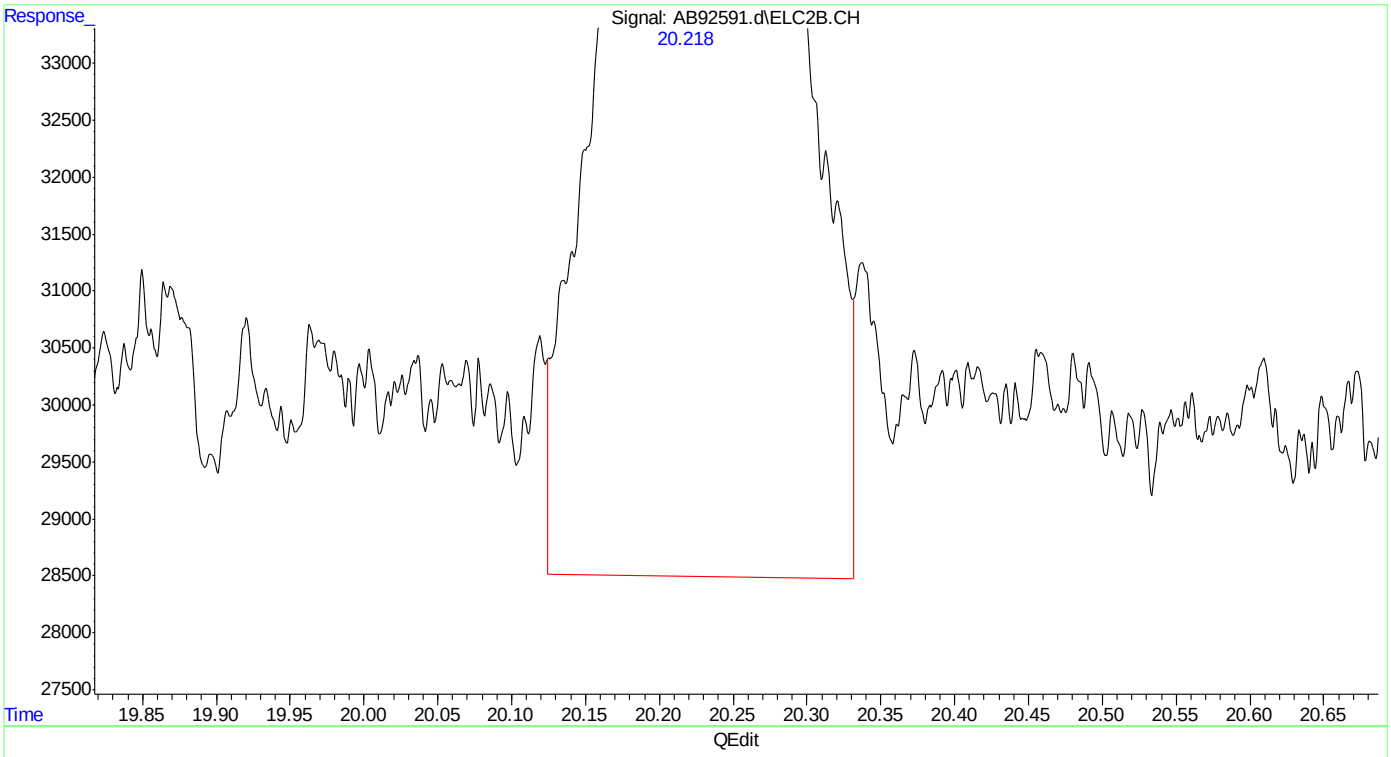
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
20.219min 2.302 ppb
response 1091509

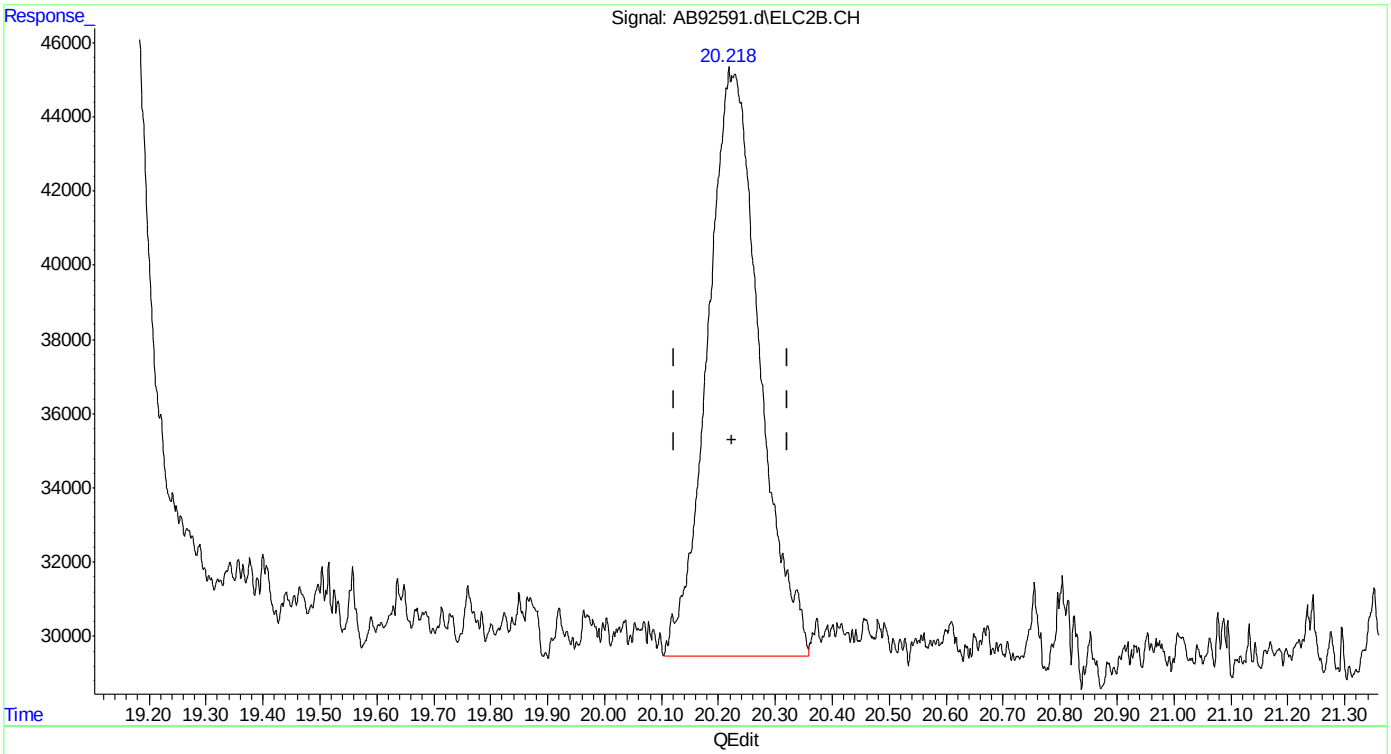
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
20.218min 2.099 ppb m
response 995138

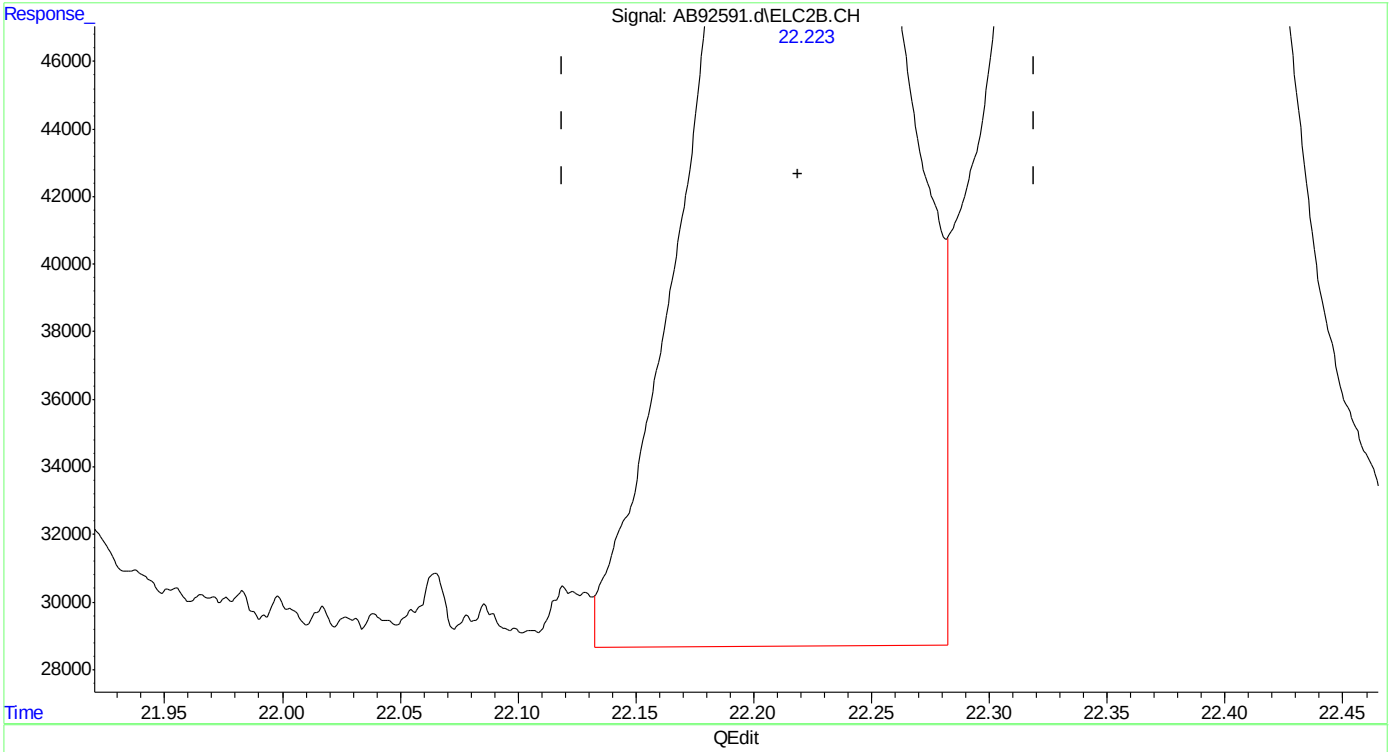
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 12:47:46
Operator  : haleyn
Sample    : ic5058-2
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2

22.222min 1.851 ppb

response 1847401

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:27:11 2016

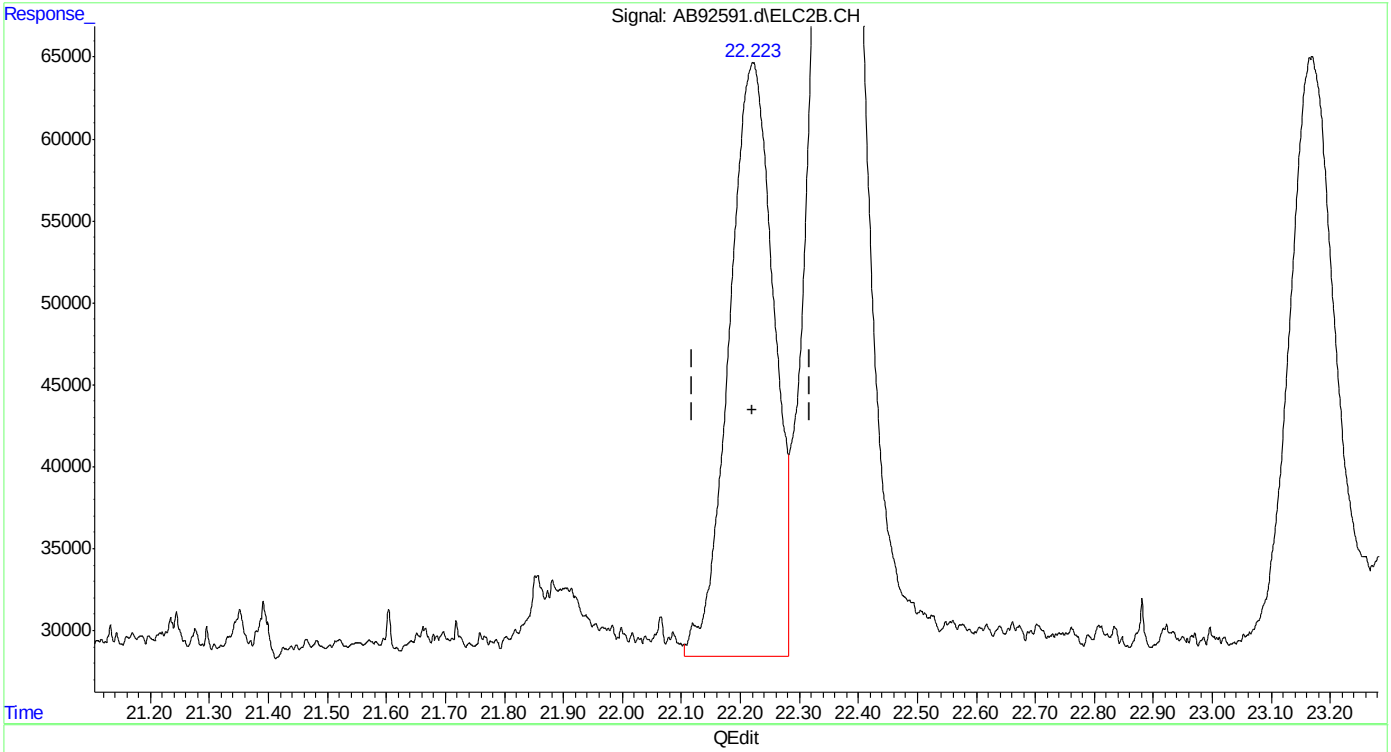
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2
22.223min 1.893 ppb m
response 1889943

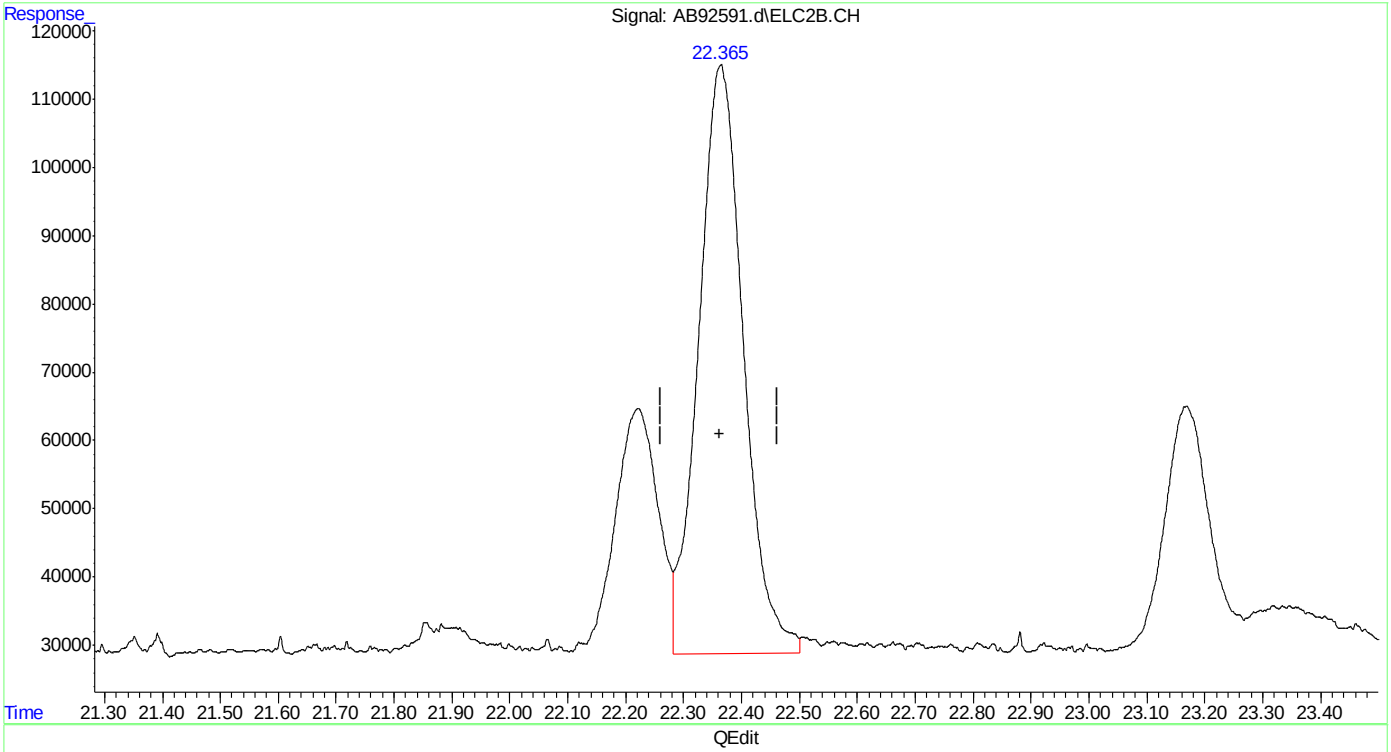
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(29) m,p-xylene #2
22.364min 3.774 ppb
response 4626142

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:34 2016

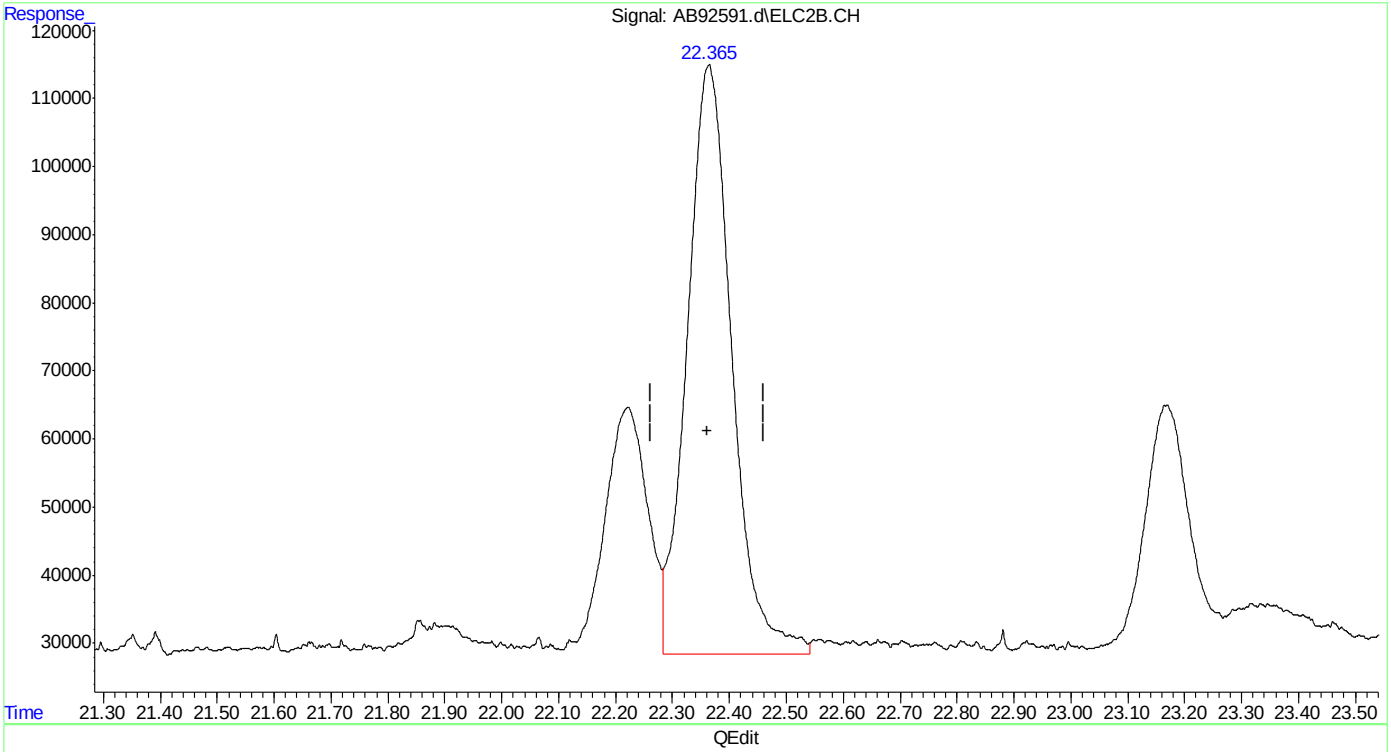
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(29) m,p-xylene #2
22.365min 3.849 ppb m
response 4718026

(+) = Expected Retention Time

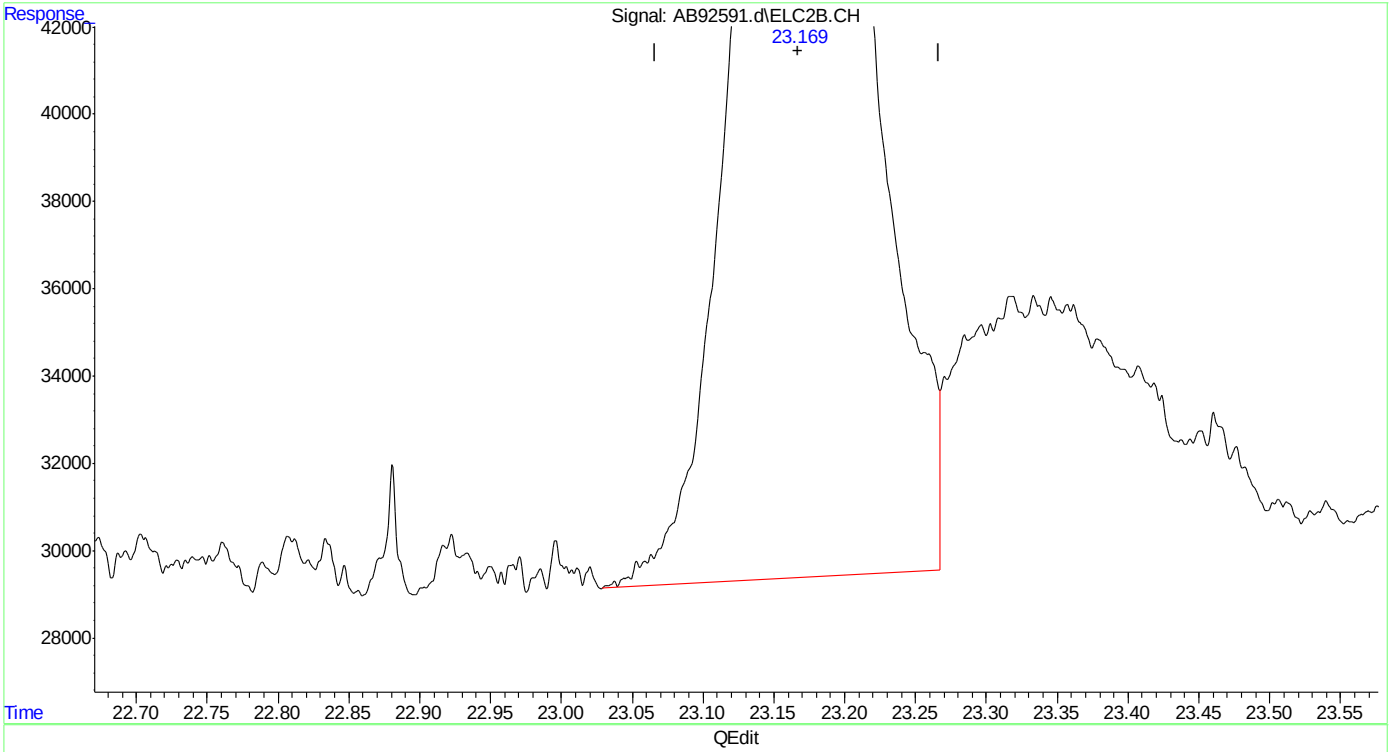
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
23.169min 1.902 ppb
response 1923475

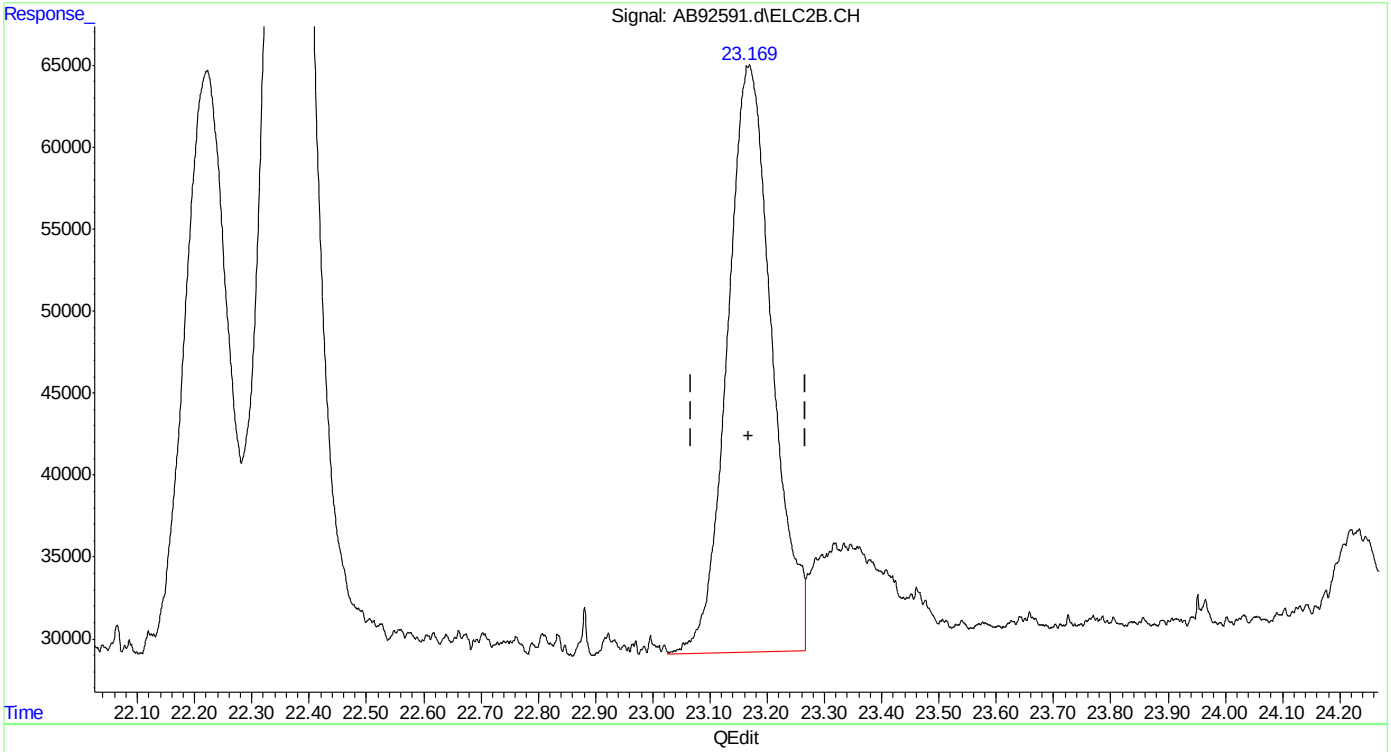
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
23.169min 1.927 ppb m
response 1948764

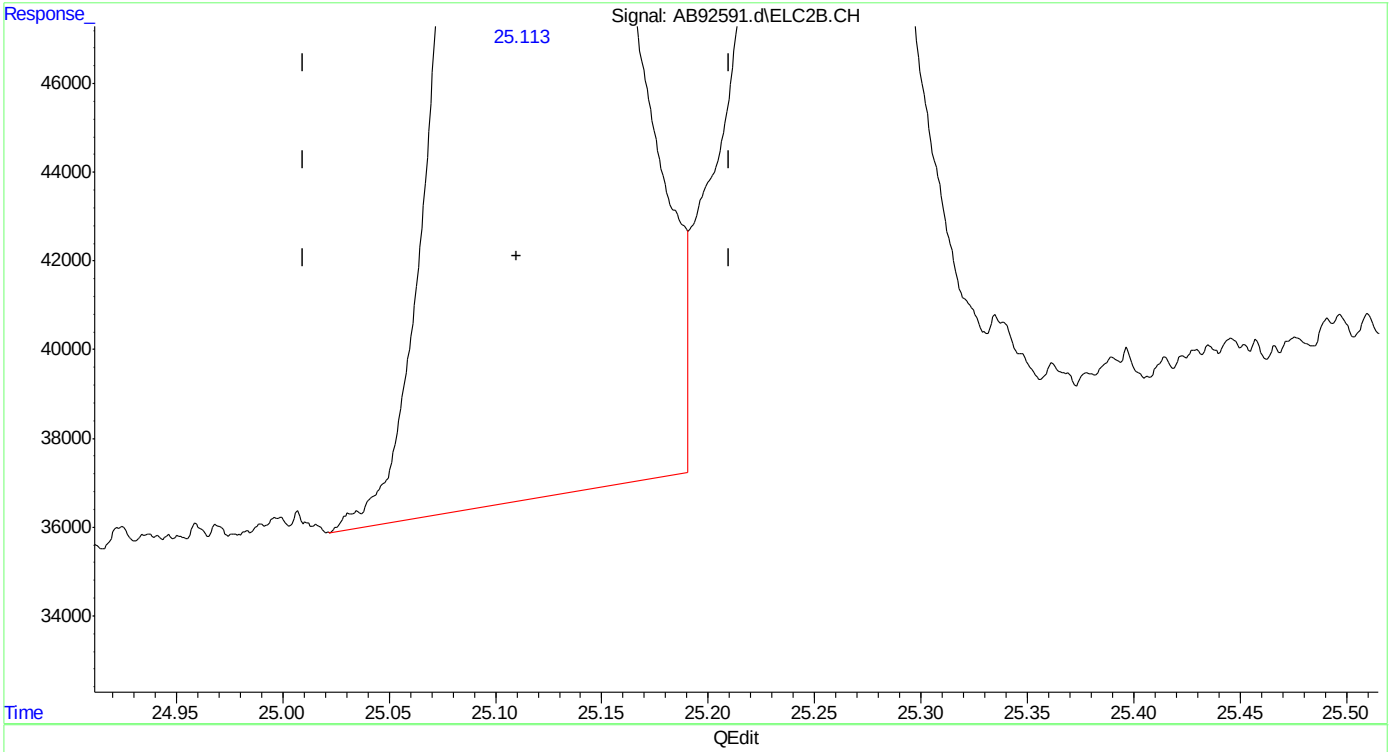
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:55 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.113min 1.893 ppb
response 2008192

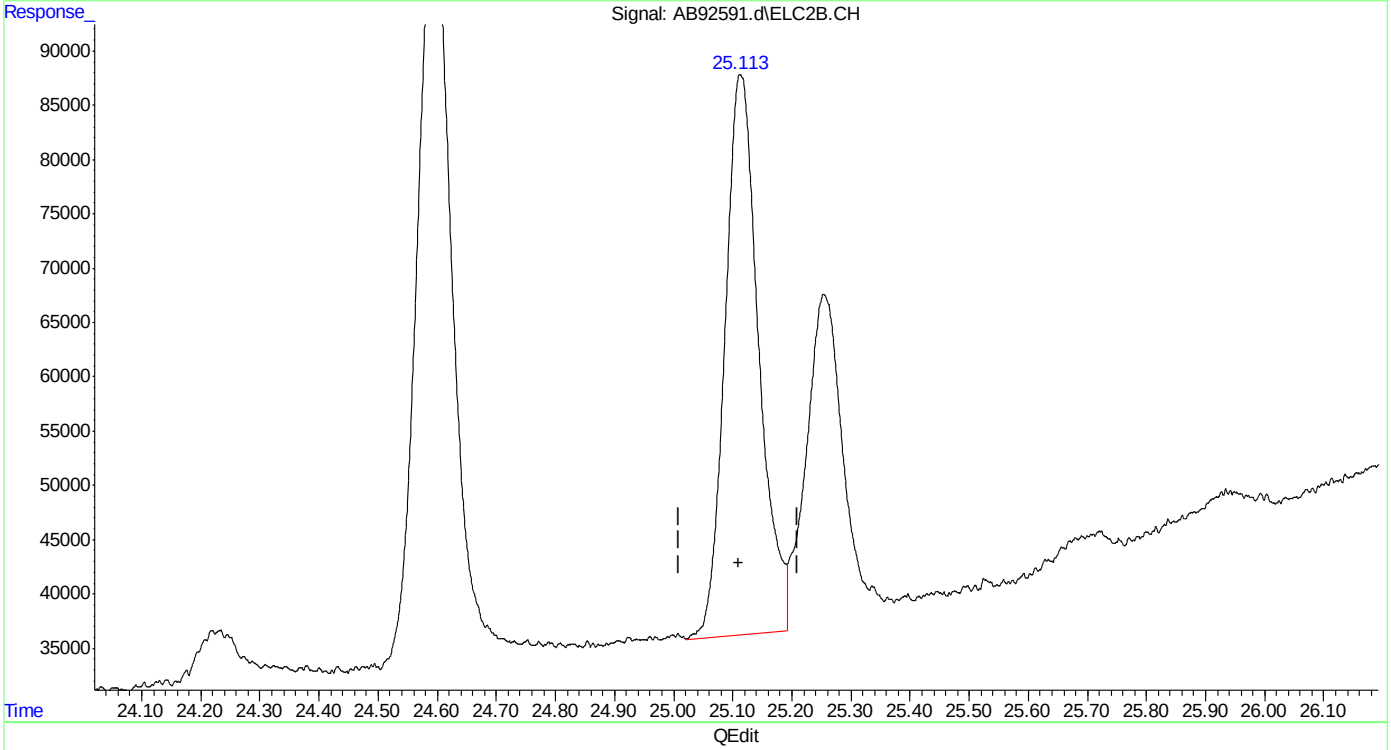
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:28:01 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.113min 1.940 ppb m
response 2057662

(+) = Expected Retention Time

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(33) naphthalene #2
28.066min 3.878 ppb
response 3167219

(+) = Expected Retention Time

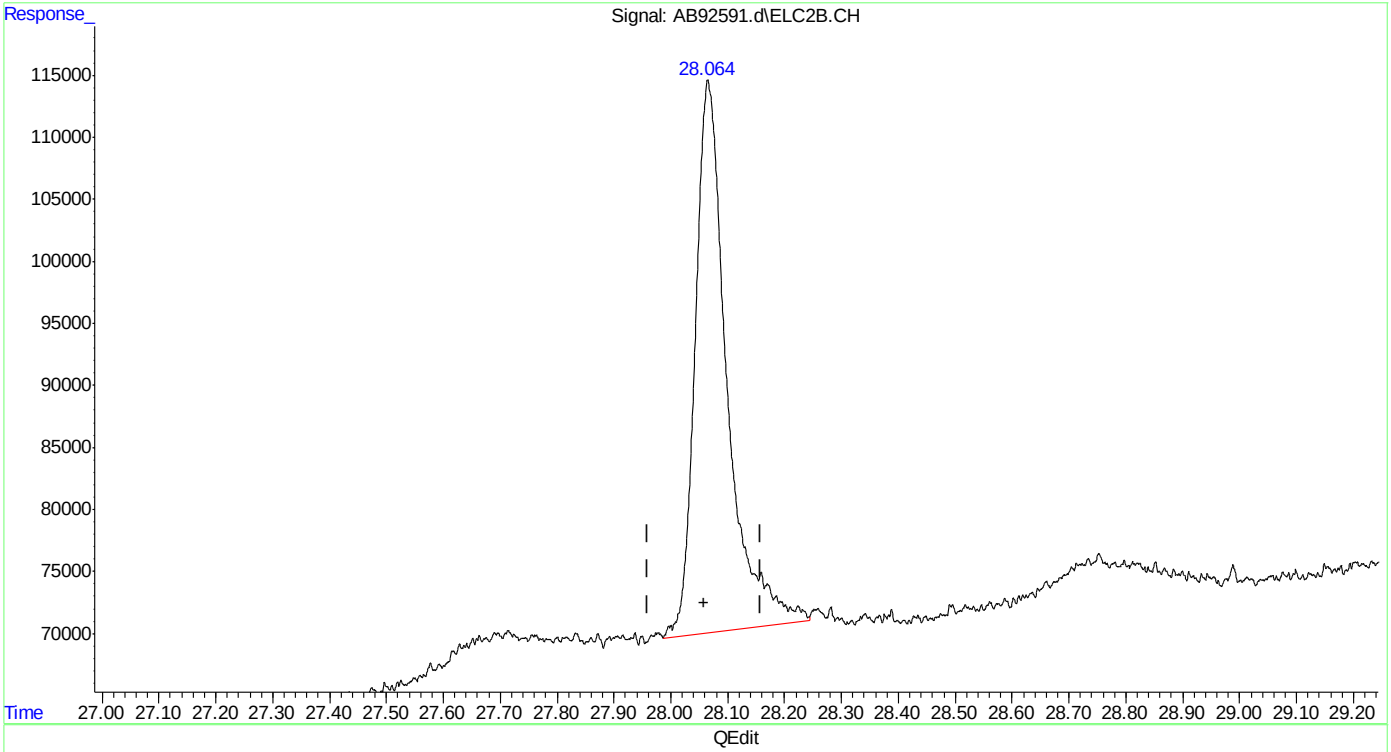
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92591.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:47:46
Operator : haleyn
Sample : ic5058-2
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.064min 2.137 ppb m
response 1745023

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:28:57 2016

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:16 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	15.169	468381	1.065	ppb	m
Spiked Amount 50.000		Recovery =	2.13%		
9) s 2,3,4-trifluorotoluene	20.232	457239	1.099	ppb	
Spiked Amount 50.000		Recovery =	2.20%		
25) s fluorobenzene #2	15.174	871999	1.001	ppb	m
Spiked Amount 50.000		Recovery =	2.00%		
27) s 2,3,4-trifluorotoluen...	20.241	500356	1.042	ppb	m
Spiked Amount 50.000		Recovery =	2.08%		
Target Compounds					
1) h rt5.5-7	6.370	423417	1.126	ppb	m
2) h rt7/10	8.710	474249	1.098	ppb	m
3) mtbe	9.565	222666	1.009	ppb	m
4) h rt10/13	13.890	532157	1.086	ppb	m
5) benzene	14.674	555388	1.000	ppb	m
8) toluene	19.128	611960	1.001	ppb	m
11) h rt20/25	21.900	636900	1.023	ppb	m
13) ethylbenzene	22.221	649345	1.001	ppb	m
14) m,p-xylene	22.370	1369525	2.024	ppb	m
15) o-xylene	23.175	672755	0.990	ppb	m
16) h decane	24.230	652274	1.018	ppb	m
17) t 1,3,5-trimethylbenzene	24.601	771508	1.064	ppb	m
18) 1,2,4-trimethylbenzene	25.121	686719	1.002	ppb	
19) h butylcyclohexane	25.263	784280	1.138	ppb	m
20) naphthalene	28.077	459832	1.196	ppb	m
23) mtbe #2	9.540	515933	1.000	ppb	m
24) benzene #2	14.661	1385814	1.003	ppb	m
26) toluene #2	19.126	1234262	1.003	ppb	m
28) ethylbenzene #2	22.219	964169	0.979	ppb	m
29) m,p-xylene #2	22.369	2432291	2.003	ppb	m
30) o-xylene #2	23.170	1005511	1.003	ppb	
31) t 1,3,5-trimethylbenzen...	24.599	1489937	1.038	ppb	
32) 1,2,4-trimethylbenzen...	25.121	1052080	0.999	ppb	m
33) naphthalene #2	28.075	922848	1.111	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.160	1056385	1.002	ppb	m

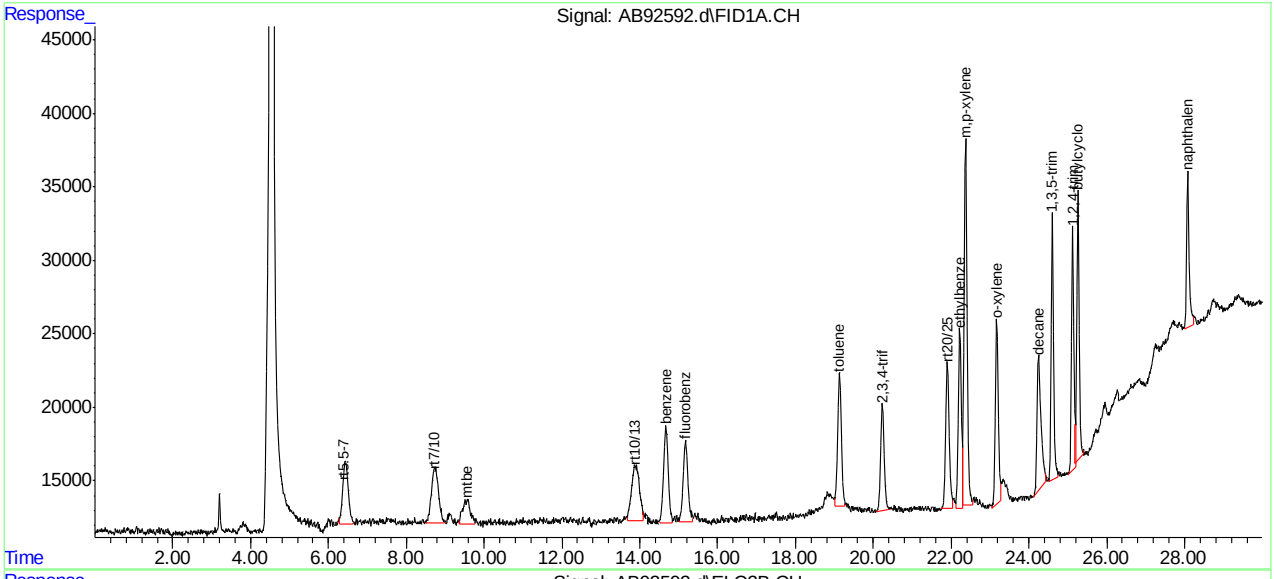
(f)=RT Delta > 1/2 Window (m)=manual int.

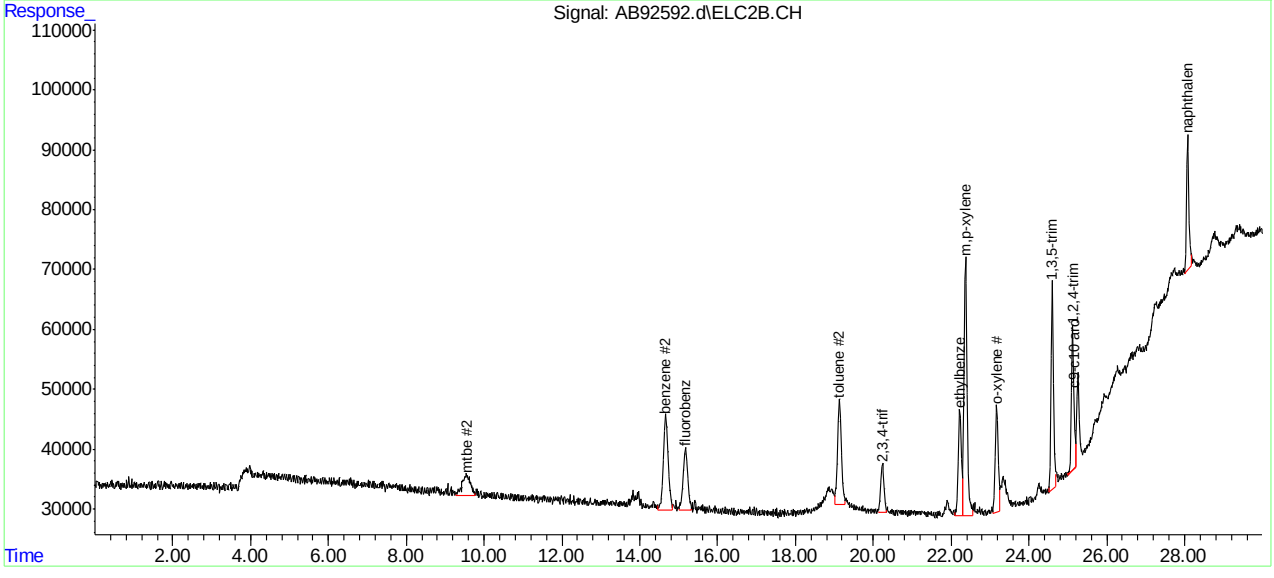
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

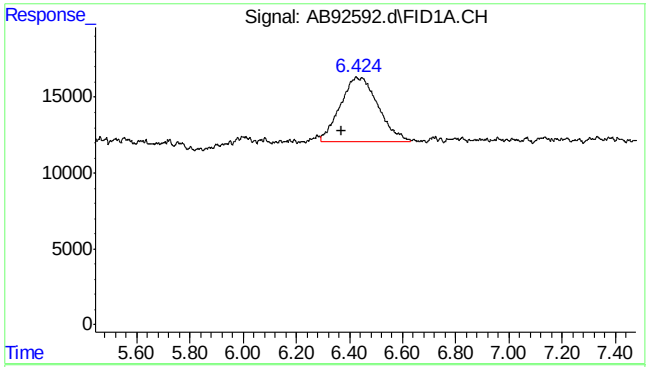
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:16 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



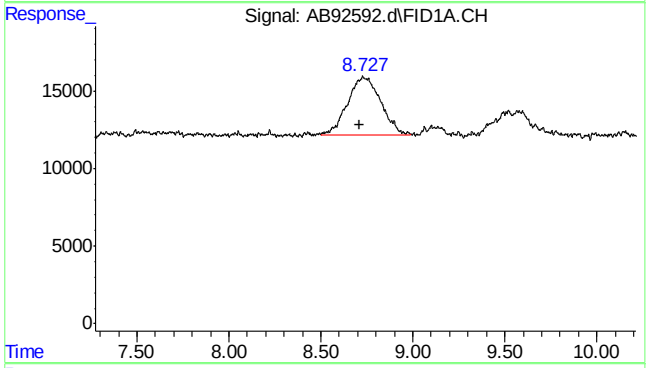


SGS ACCUTEST MC45611



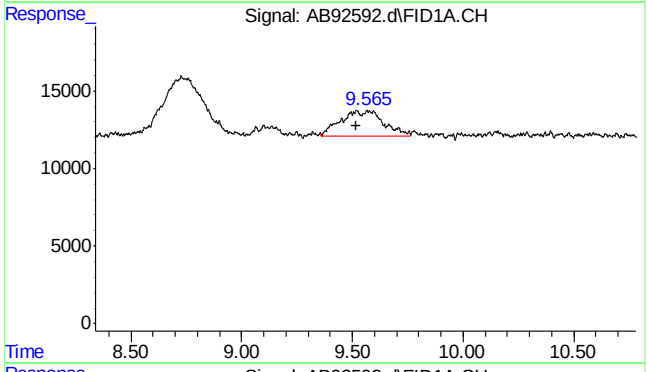
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 423417
Conc: 1.13 ppb m



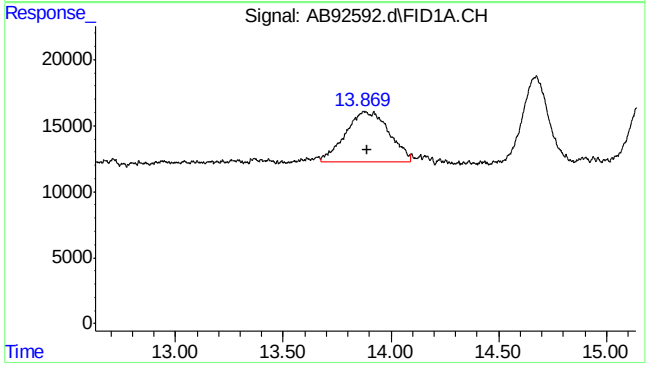
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 474249
Conc: 1.10 ppb m



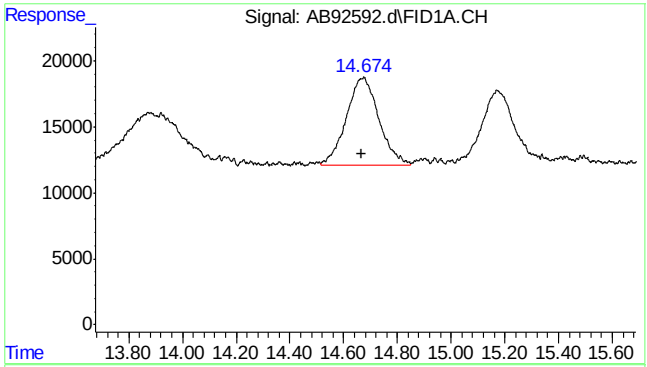
#3 mtbe

R.T.: 9.565 min
Delta R.T.: 0.047 min
Response: 222666
Conc: 1.01 ppb m



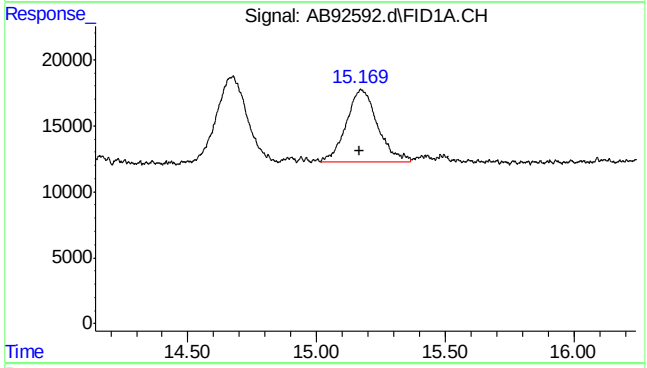
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 532157
Conc: 1.09 ppb m



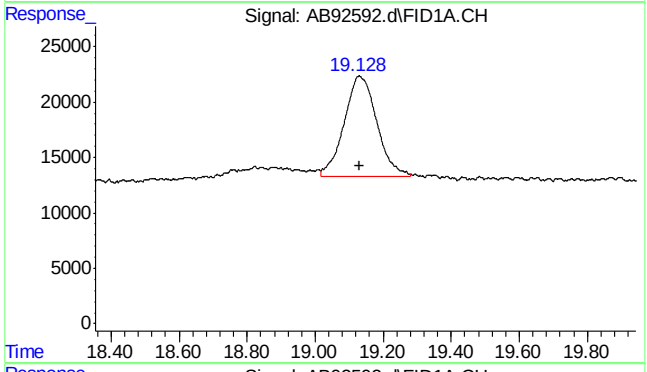
#5 benzene

R.T.: 14.674 min
Delta R.T.: 0.007 min
Response: 555388
Conc: 1.00 ppb m



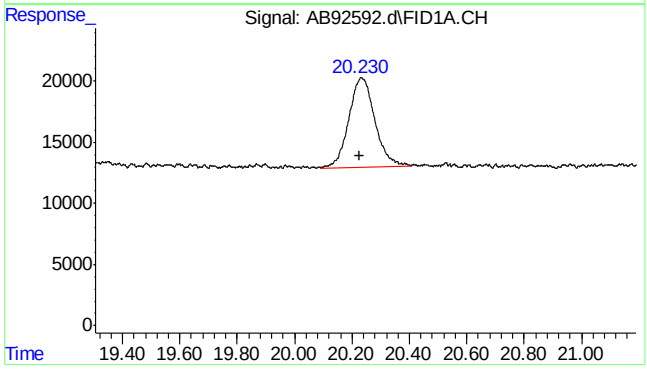
#6 fluorobenzene

R.T.: 15.169 min
Delta R.T.: 0.004 min
Response: 468381
Conc: 1.06 ppb m



#8 toluene

R.T.: 19.128 min
Delta R.T.: 0.000 min
Response: 611960
Conc: 1.00 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 20.232 min
Delta R.T.: 0.004 min
Response: 457239
Conc: 1.10 ppb

7.5.9

7

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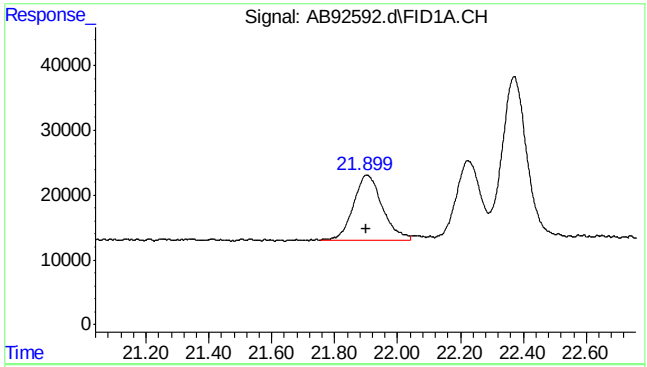
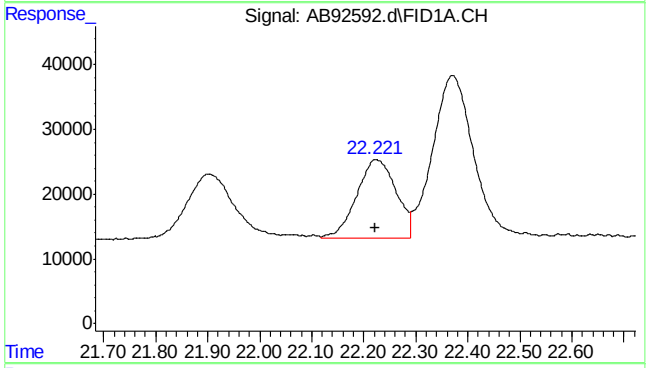


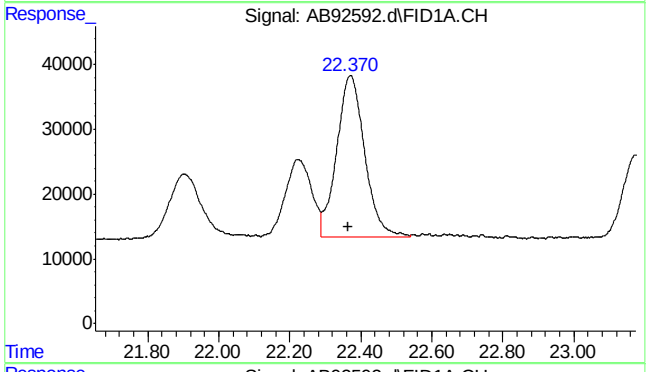
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 636900
Conc: 1.02 ppb m



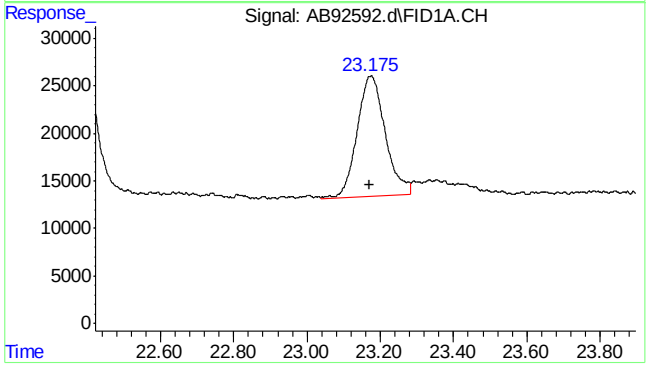
#13 ethylbenzene

R.T.: 22.221 min
Delta R.T.: -0.002 min
Response: 649345
Conc: 1.00 ppb m



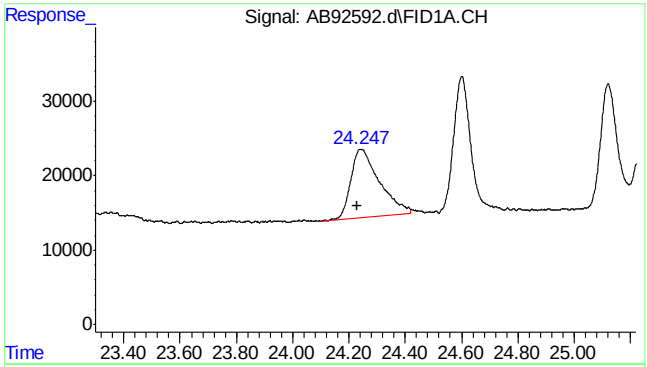
#14 m,p-xylene

R.T.: 22.370 min
Delta R.T.: 0.005 min
Response: 1369525
Conc: 2.02 ppb m



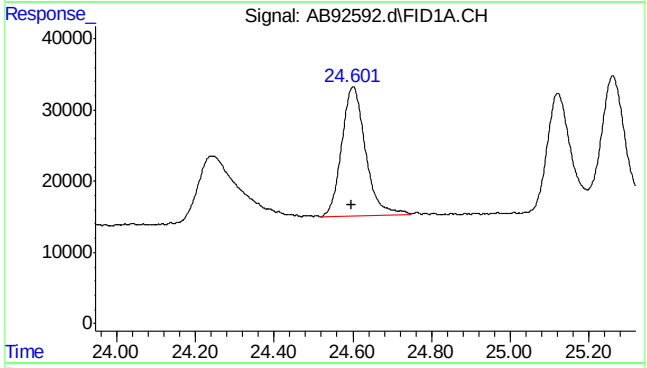
#15 o-xylene

R.T.: 23.175 min
Delta R.T.: 0.005 min
Response: 672755
Conc: 0.99 ppb m



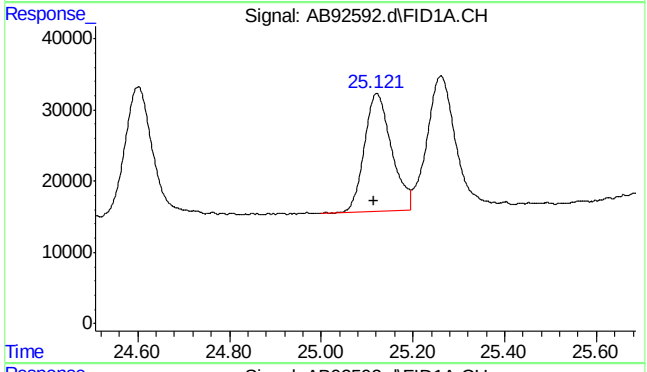
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 652274
Conc: 1.02 ppb m



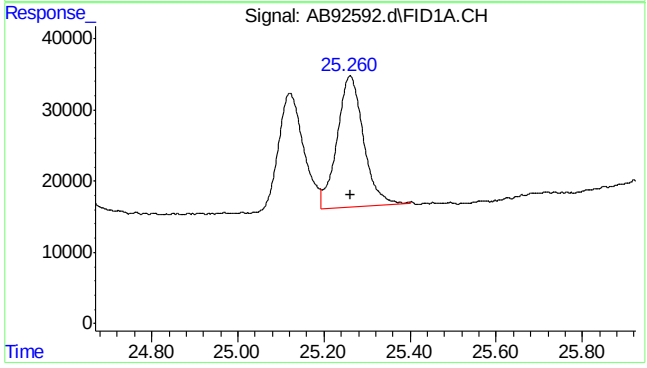
#17 1,3,5-trimethylbenzene

R.T.: 24.601 min
Delta R.T.: 0.005 min
Response: 771508
Conc: 1.06 ppb m



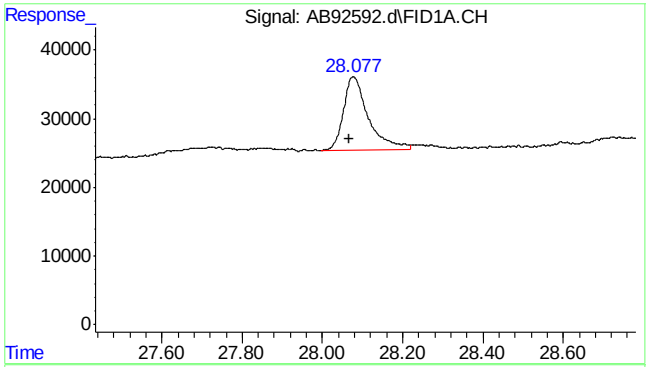
#18 1,2,4-trimethylbenzene

R.T.: 25.121 min
Delta R.T.: 0.006 min
Response: 686719
Conc: 1.00 ppb



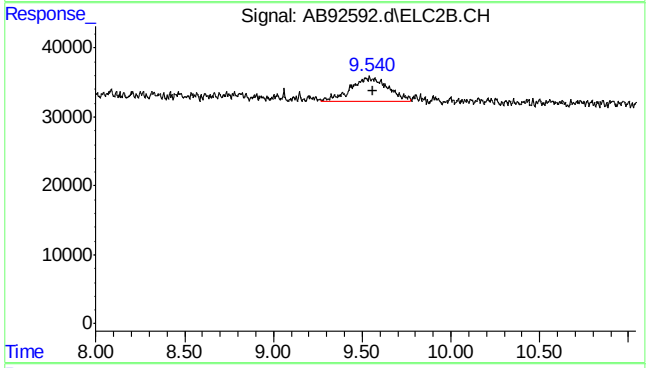
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 784280
Conc: 1.14 ppb m



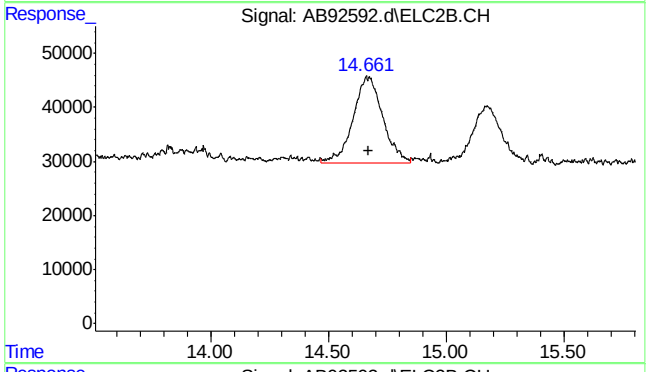
#20 naphthalene

R.T.: 28.077 min
Delta R.T.: 0.009 min
Response: 459832
Conc: 1.20 ppb m



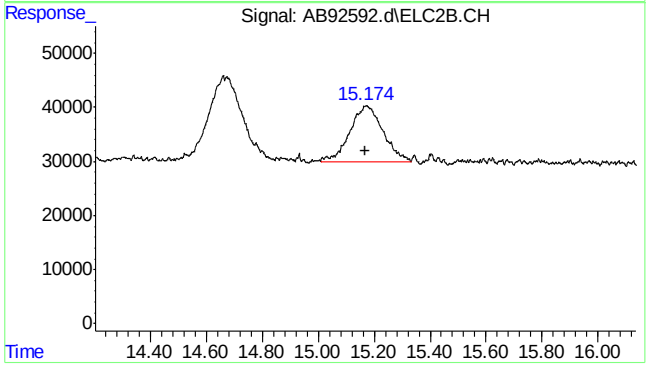
#23 mtbe #2

R.T.: 9.540 min
Delta R.T.: -0.021 min
Response: 515933
Conc: 1.00 ppb m



#24 benzene #2

R.T.: 14.661 min
Delta R.T.: -0.007 min
Response: 1385814
Conc: 1.00 ppb m



#25 fluorobenzene #2

R.T.: 15.174 min
Delta R.T.: 0.007 min
Response: 871999
Conc: 1.00 ppb m

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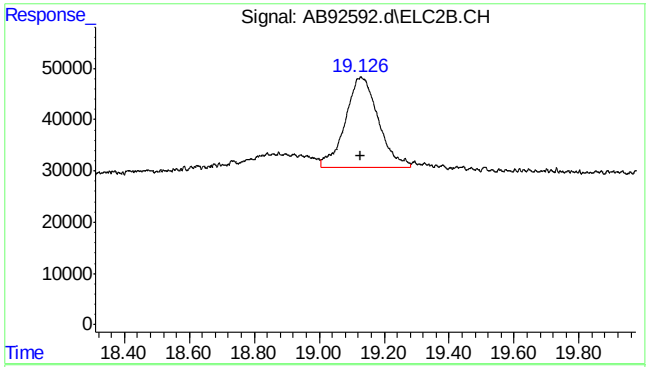
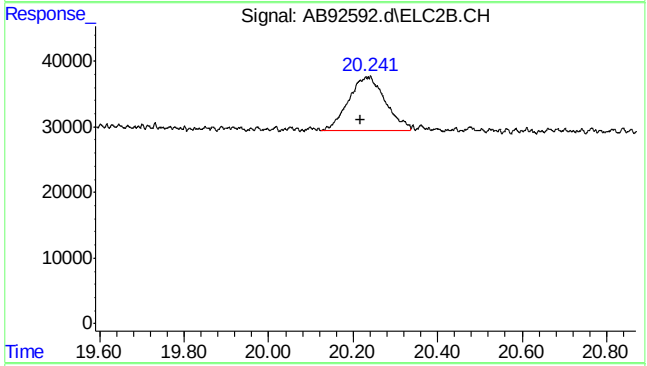


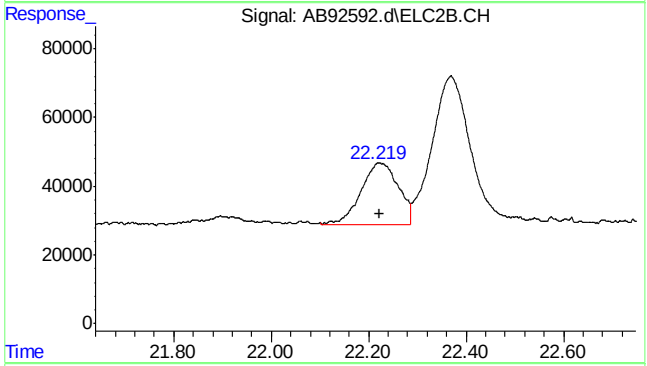
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 1234262
Conc: 1.00 ppb m



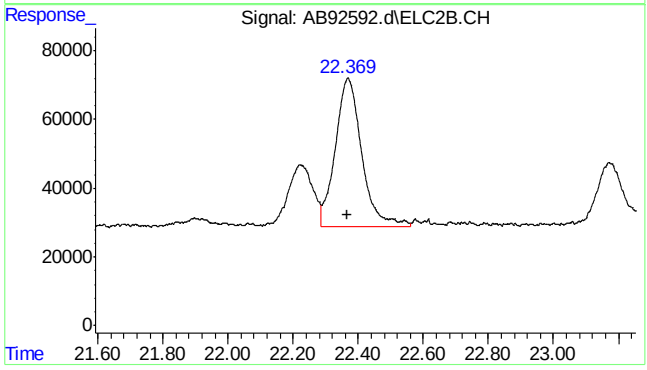
#27 2,3,4-trifluorotoluene #2

R.T.: 20.241 min
Delta R.T.: 0.023 min
Response: 500356
Conc: 1.04 ppb m



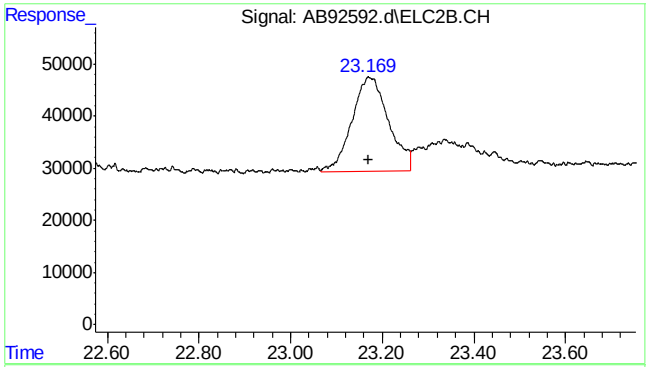
#28 ethylbenzene #2

R.T.: 22.219 min
Delta R.T.: -0.004 min
Response: 964169
Conc: 0.98 ppb m



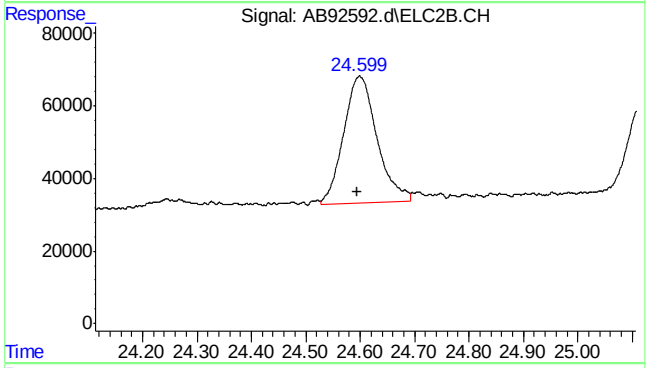
#29 m,p-xylene #2

R.T.: 22.369 min
Delta R.T.: 0.004 min
Response: 2432291
Conc: 2.00 ppb m



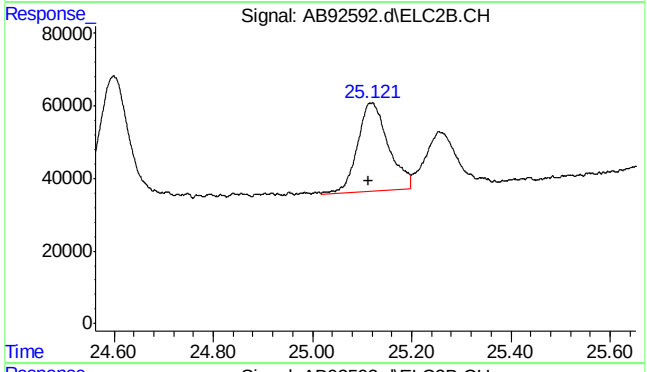
#30 o-xylene #2

R.T.: 23.170 min
Delta R.T.: 0.000 min
Response: 1005511
Conc: 1.00 ppb



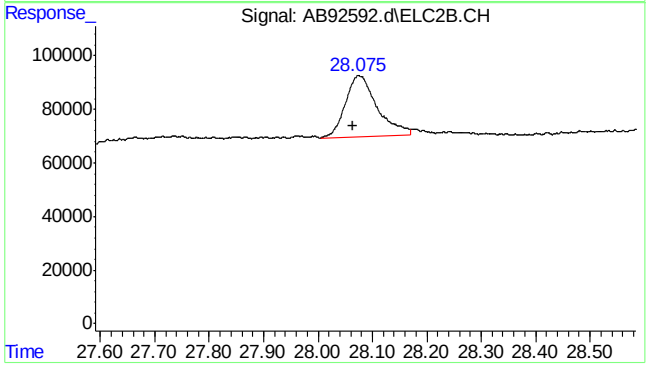
#31 1,3,5-trimethylbenzene #2

R.T.: 24.599 min
Delta R.T.: 0.004 min
Response: 1489937
Conc: 1.04 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.121 min
Delta R.T.: 0.008 min
Response: 1052080
Conc: 1.00 ppb m



#33 naphthalene #2

R.T.: 28.075 min
Delta R.T.: 0.011 min
Response: 922848
Conc: 1.11 ppb m

7.5.9

7

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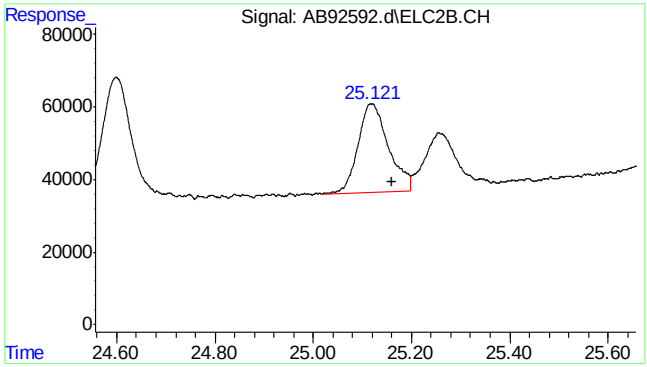



```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:   1056385
      Conc:   1.00 ppb m
```

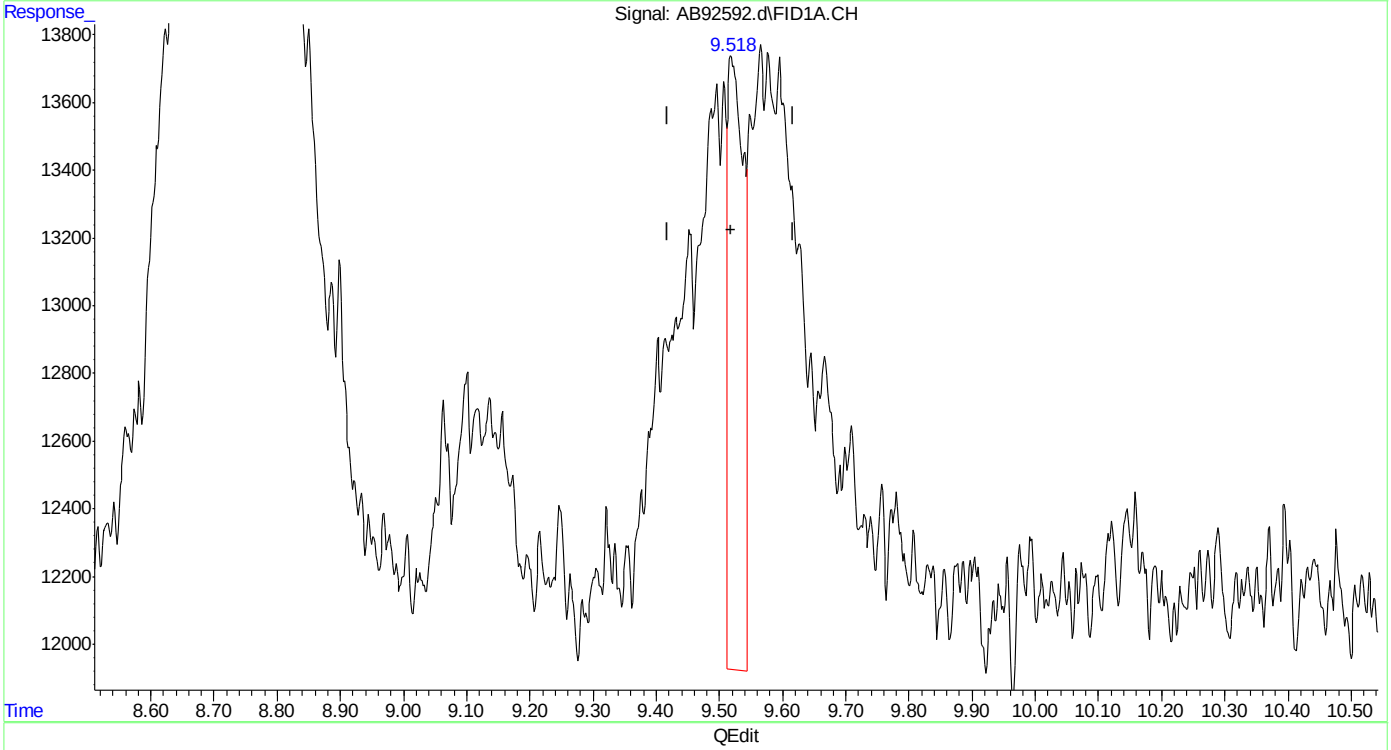

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.520min 0.148 ppb
response 32672

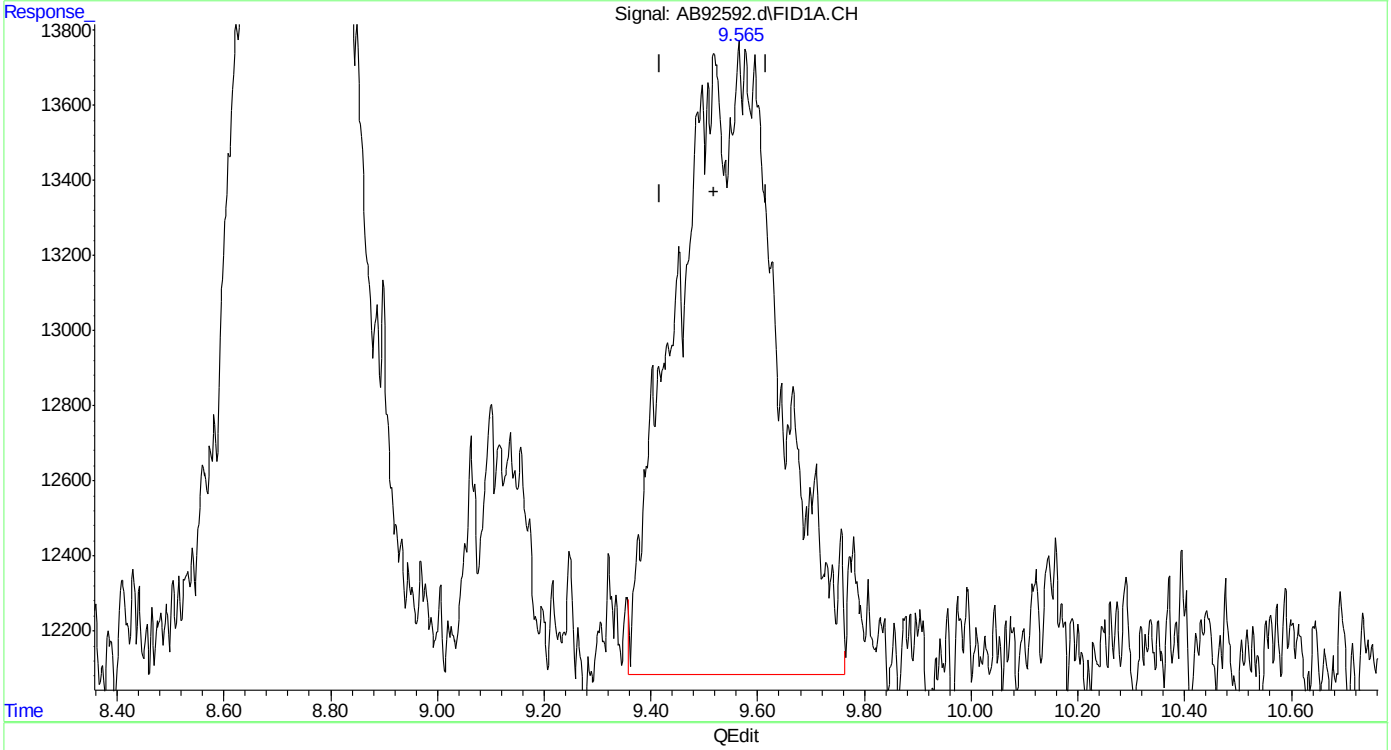
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
9.565min 1.009 ppb m
response 222666

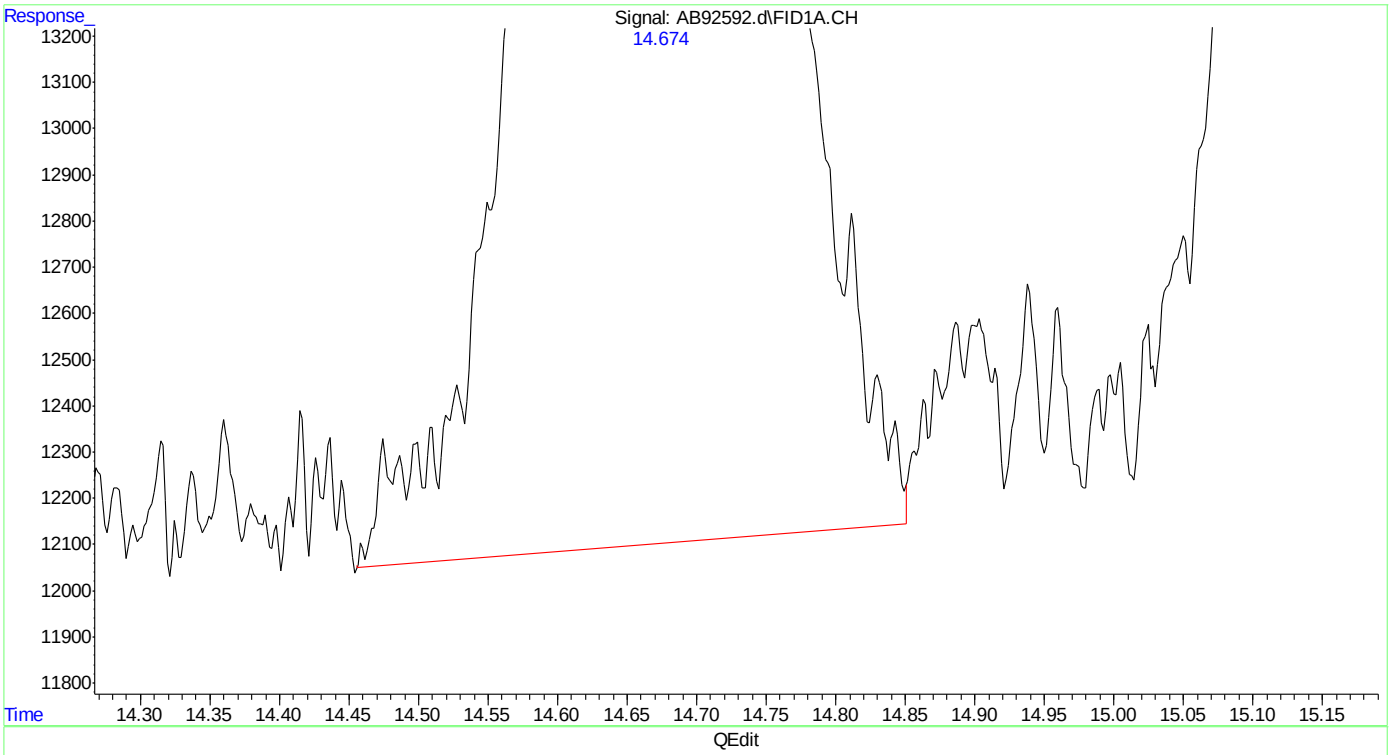
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:56:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene
14.675min 1.017 ppb
response 564535

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:08 2016

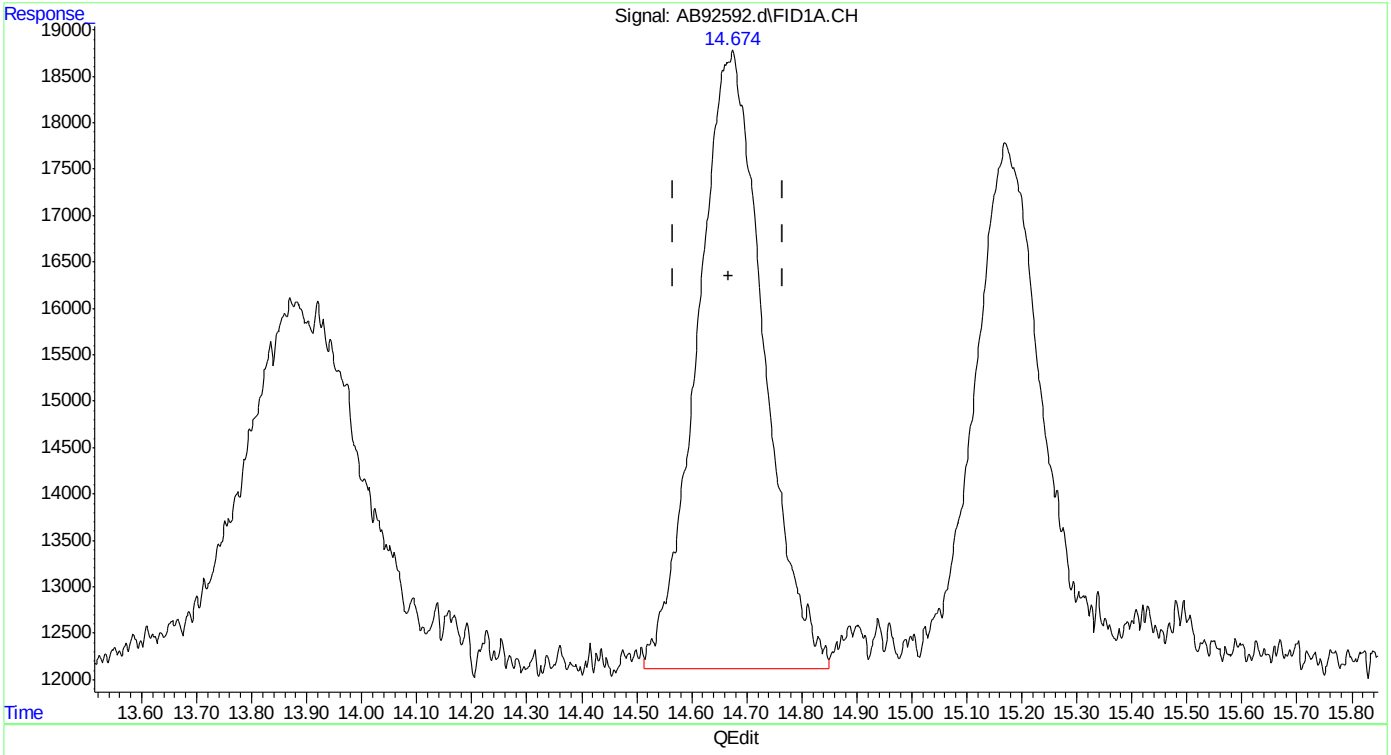
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene
14.674min 1.000 ppb m
response 555388

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(6) fluorobenzene (s)
15.171min 1.075 ppb
response 472881

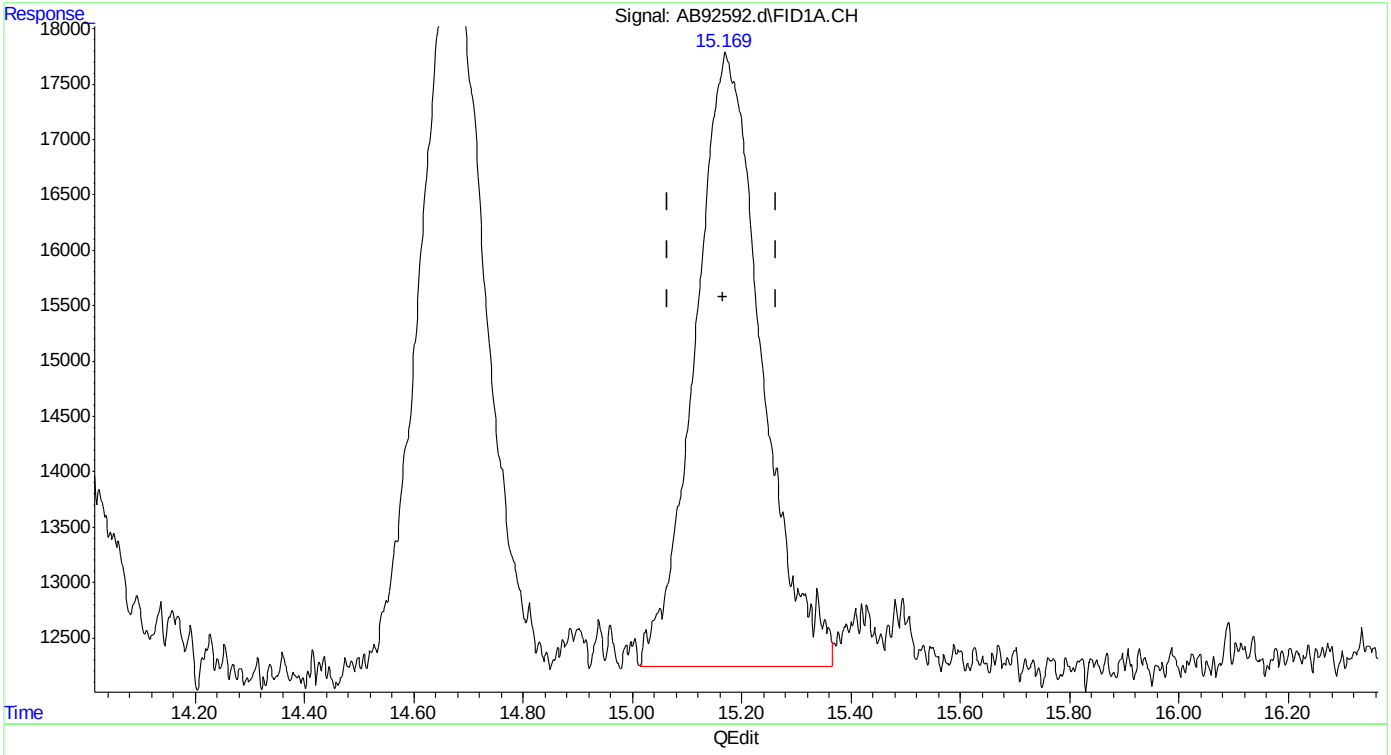
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
15.169min 1.065 ppb m
response 468381

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:58:03 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(8) toluene
19.129min 0.993 ppb
response 607075

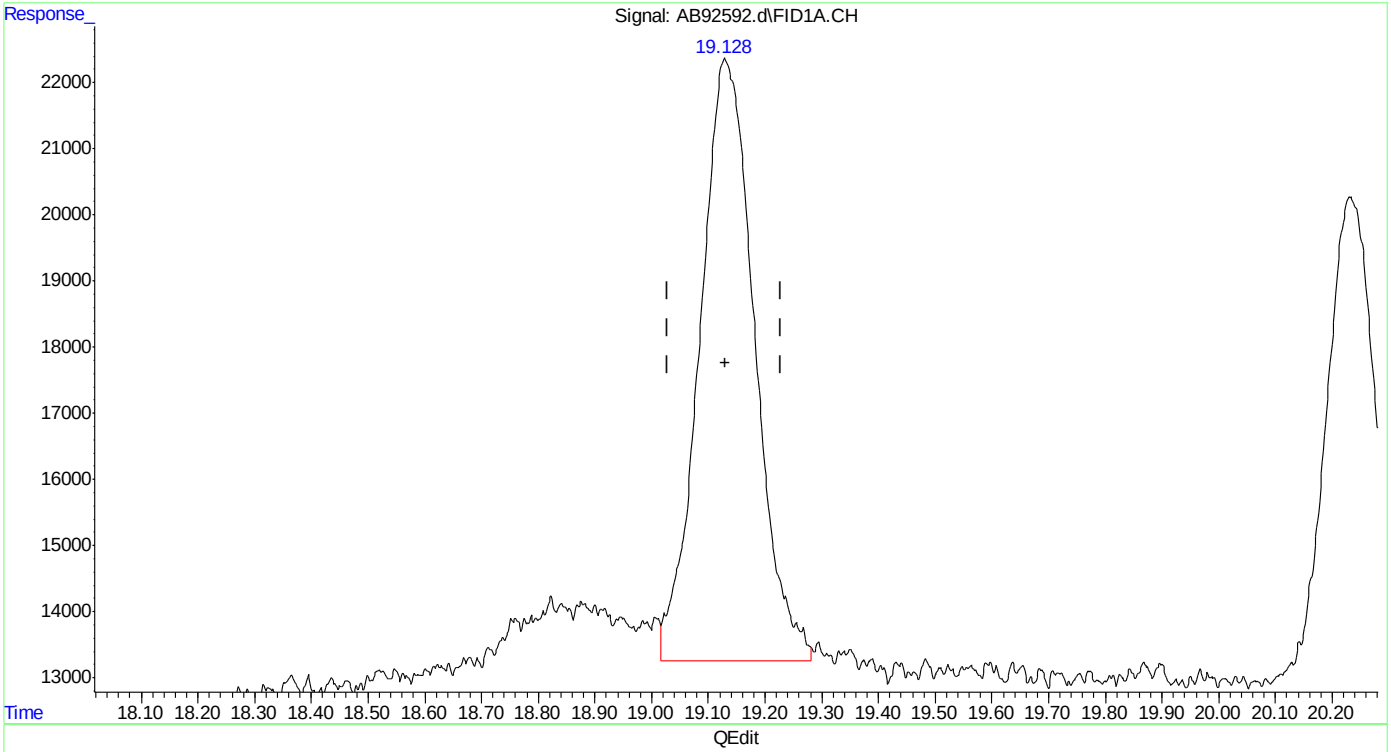
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
19.128min 1.001 ppb m
response 611960

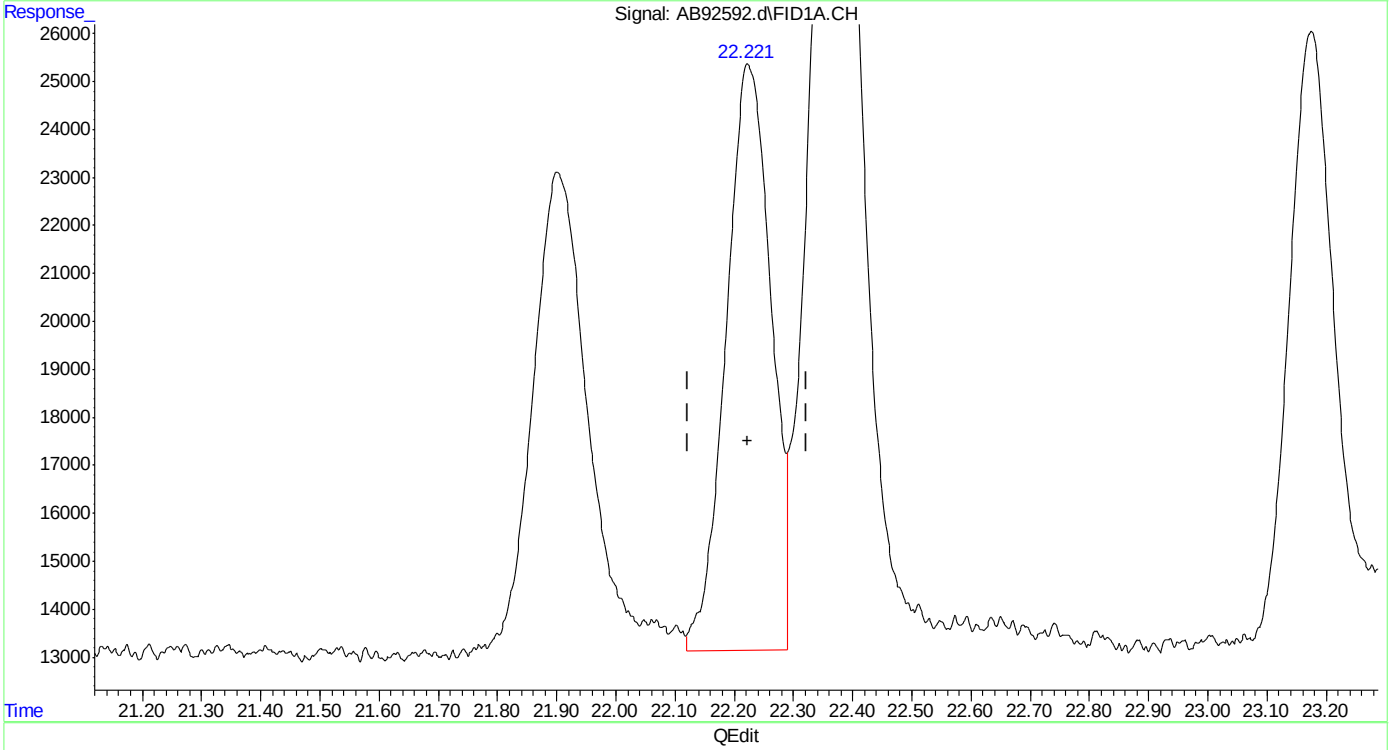
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) ethylbenzene
22.223min 0.993 ppb
response 644566

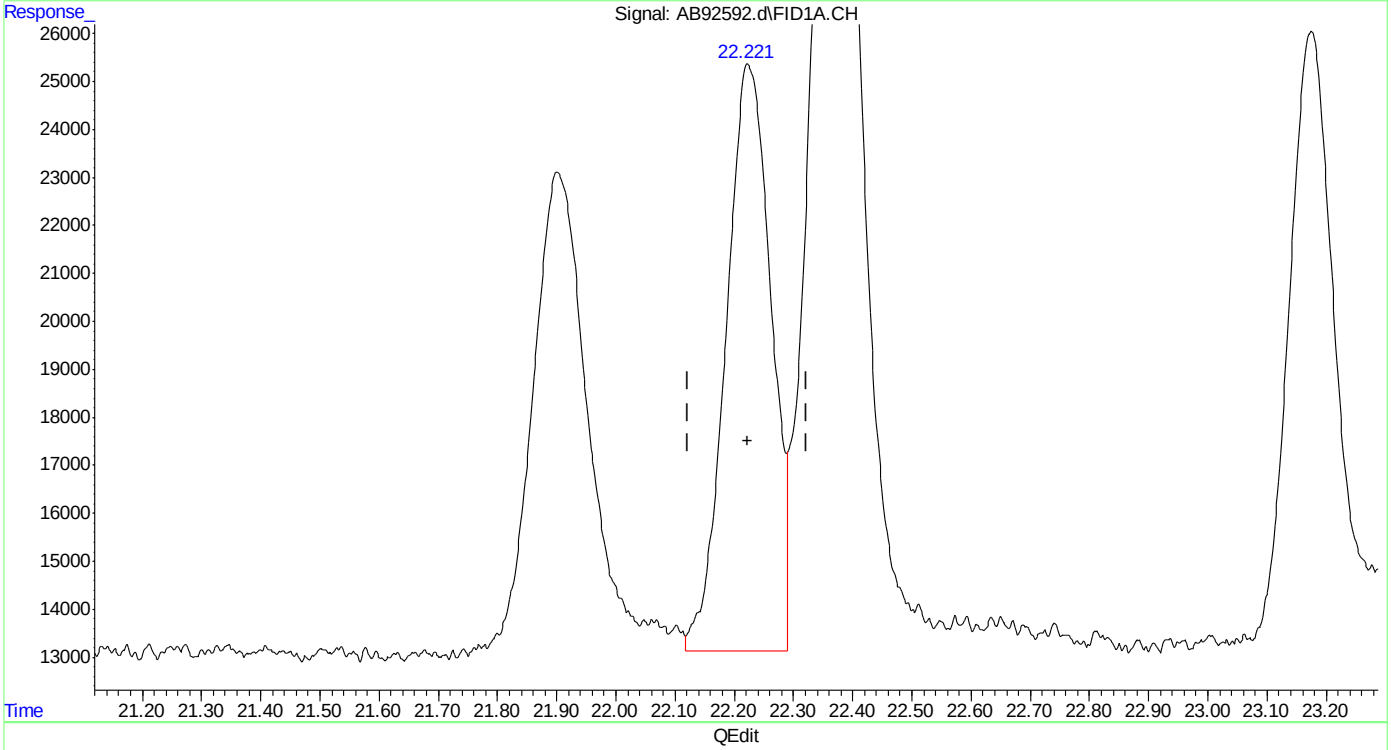
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(13) ethylbenzene
22.221min 1.001 ppb m
response 649345

(+) = Expected Retention Time

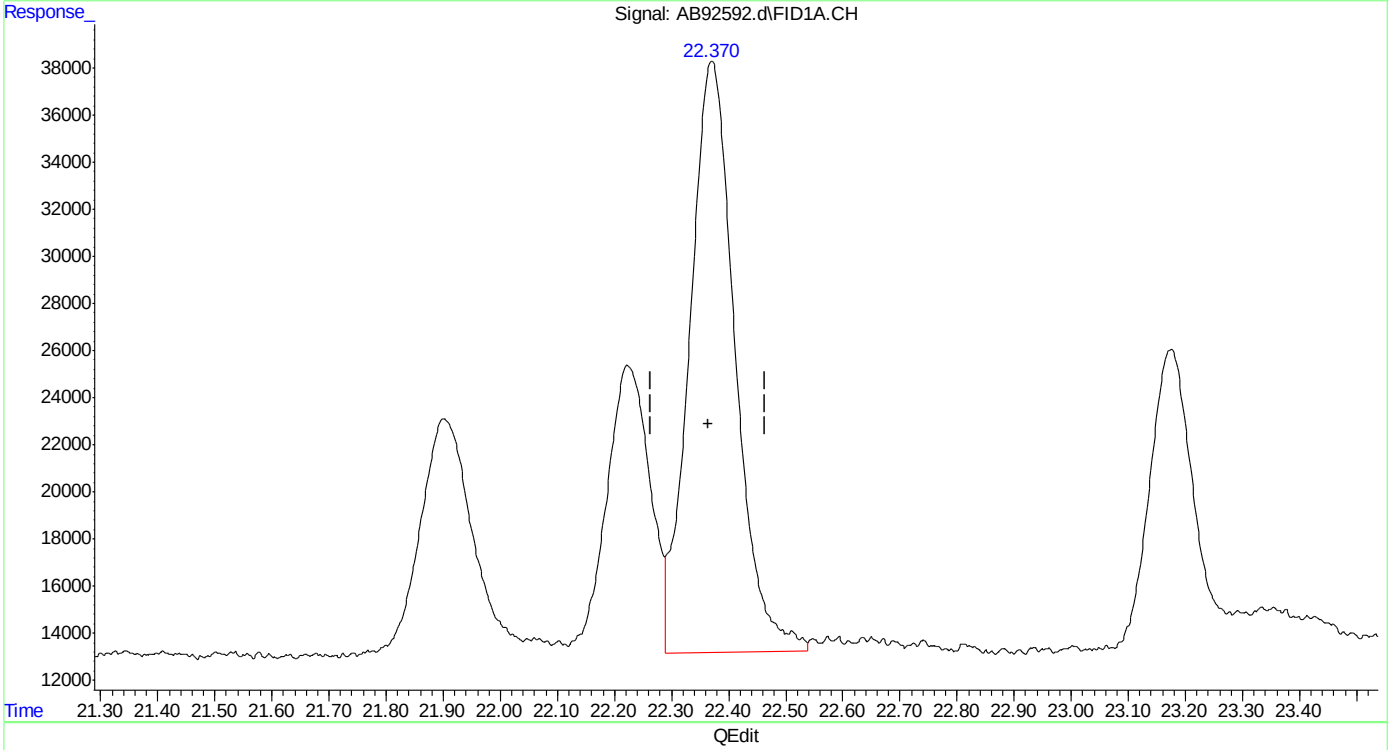
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) m,p-xylene
22.371min 2.059 ppb
response 1393341

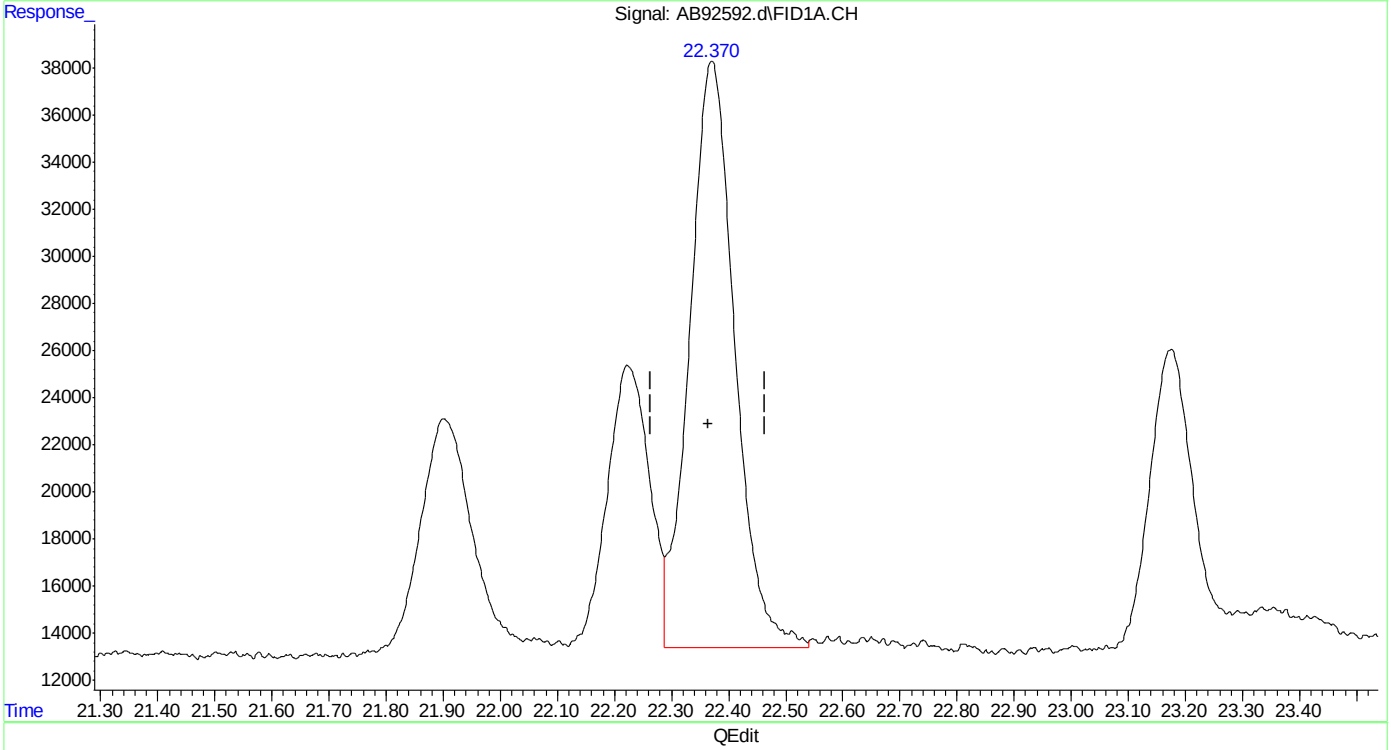
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) m,p-xylene
22.370min 2.024 ppb m
response 1369525

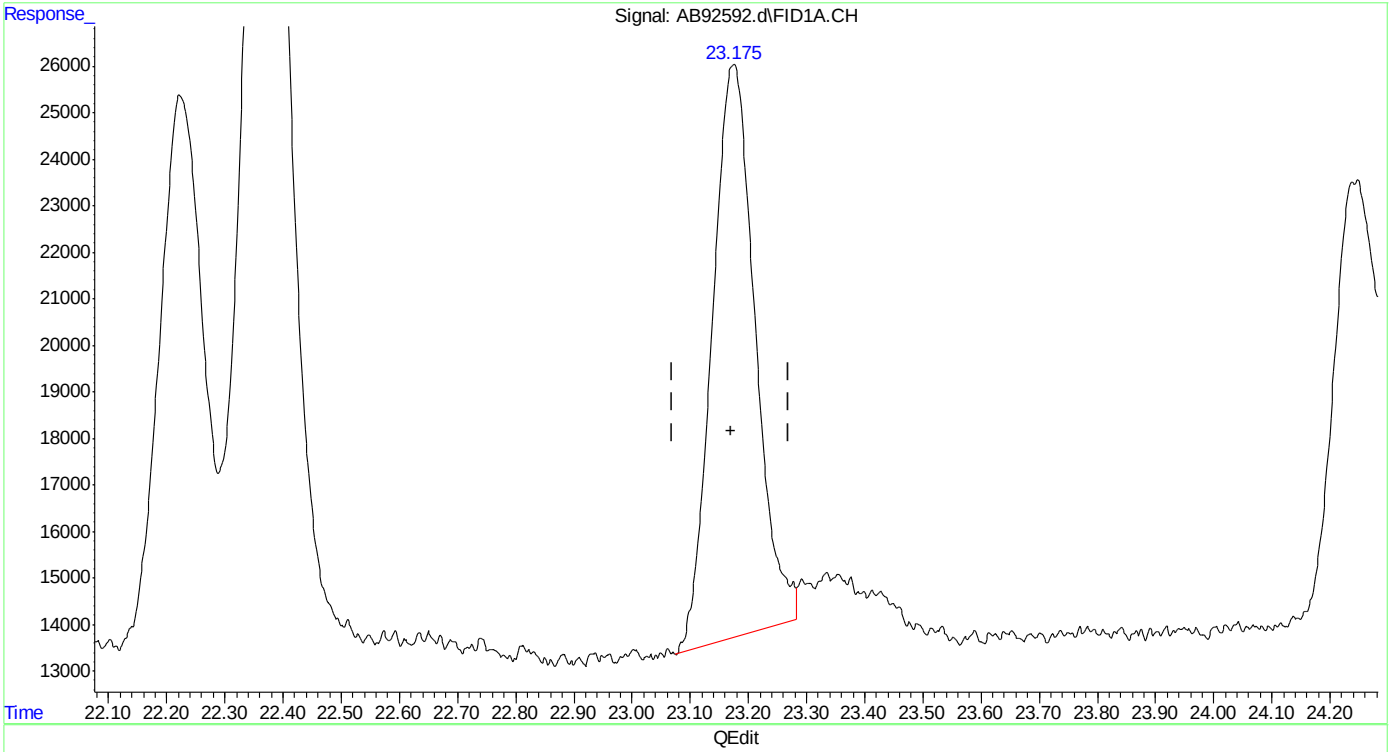
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:35 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene

23.175min 0.928 ppb

response 630056

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:59:38 2016

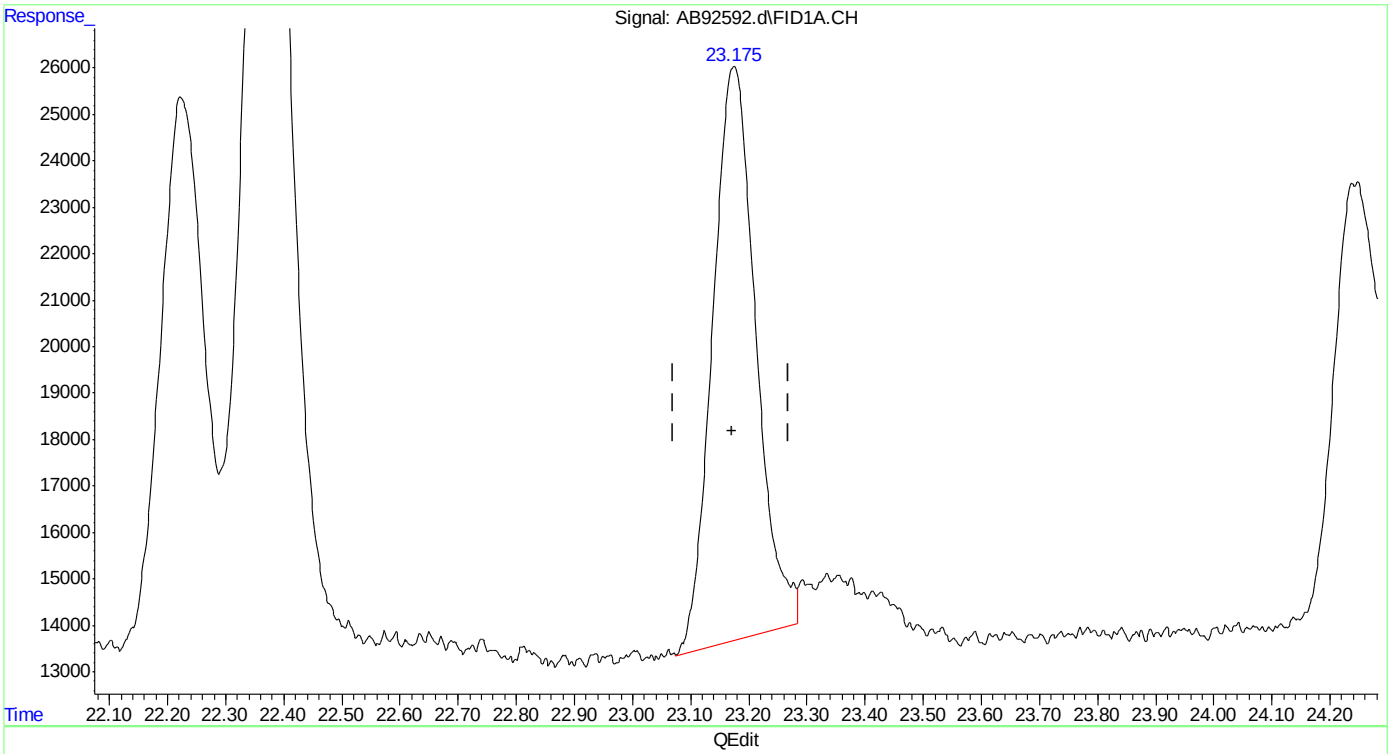
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.175min 0.940 ppb m
response 638537

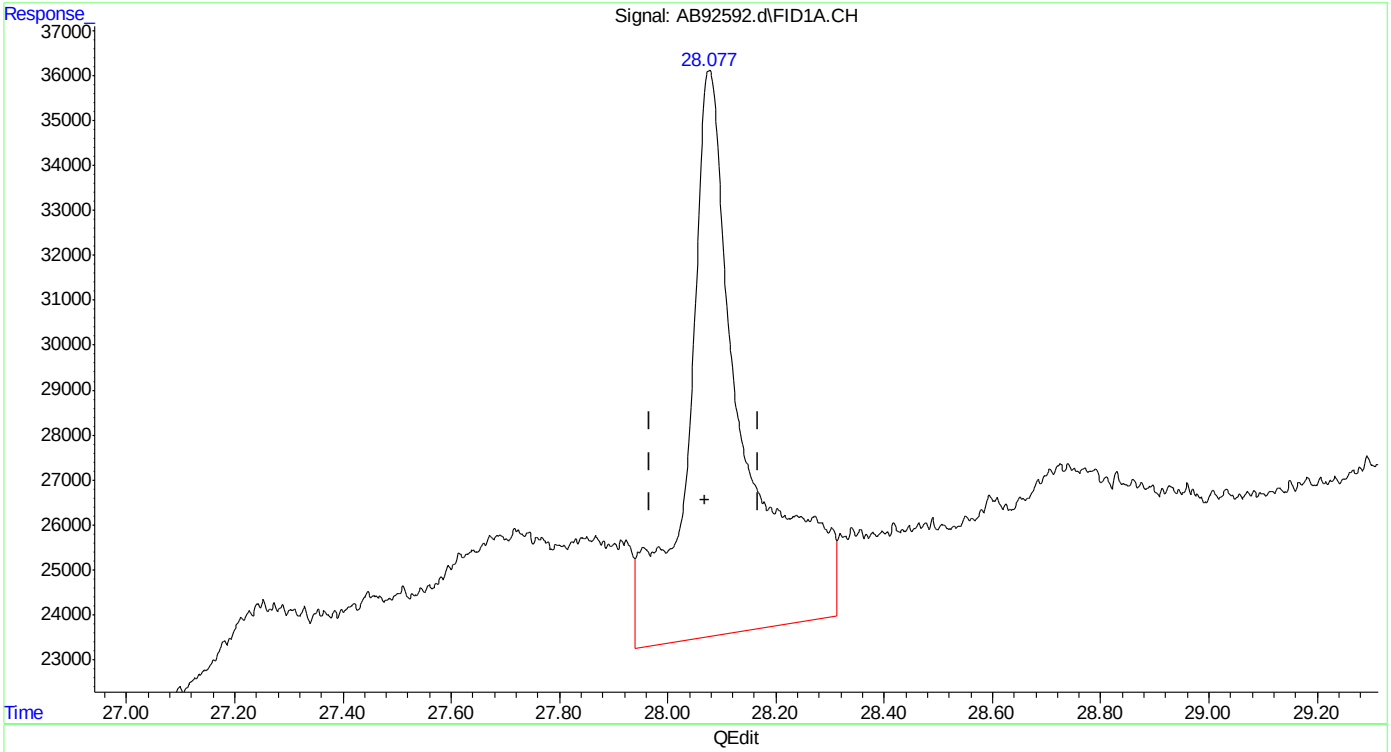
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.077min 2.363 ppb
response 908870

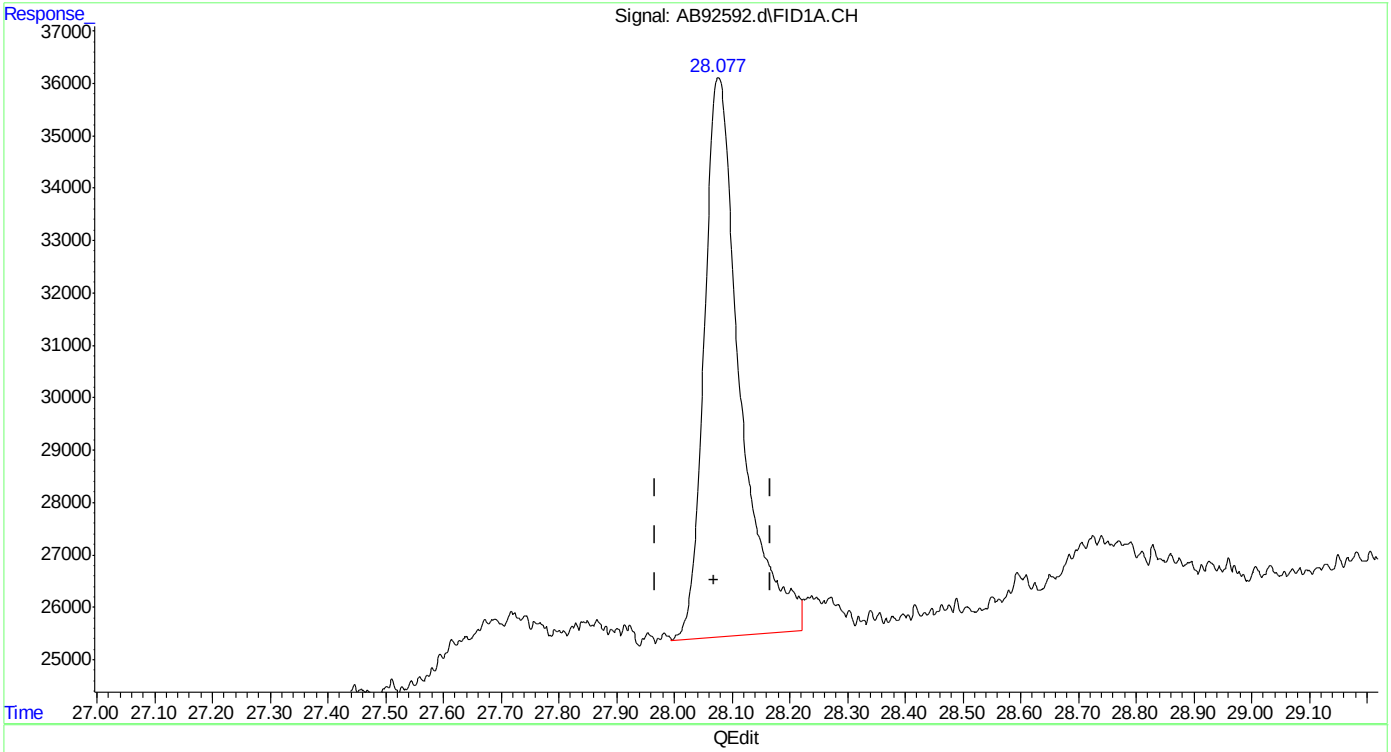
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.077min 1.207 ppb m
response 464401

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:00:40 2016

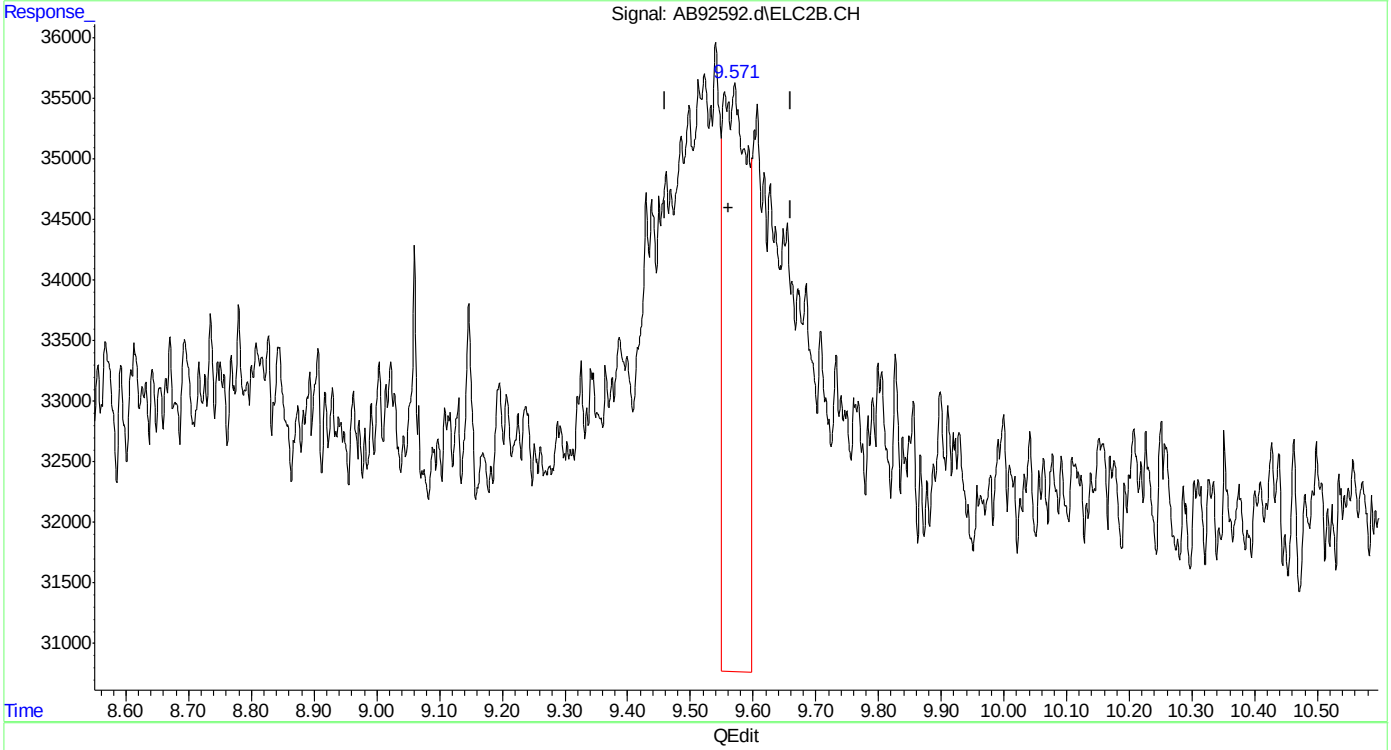
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.571min 0.251 ppb
response 129679

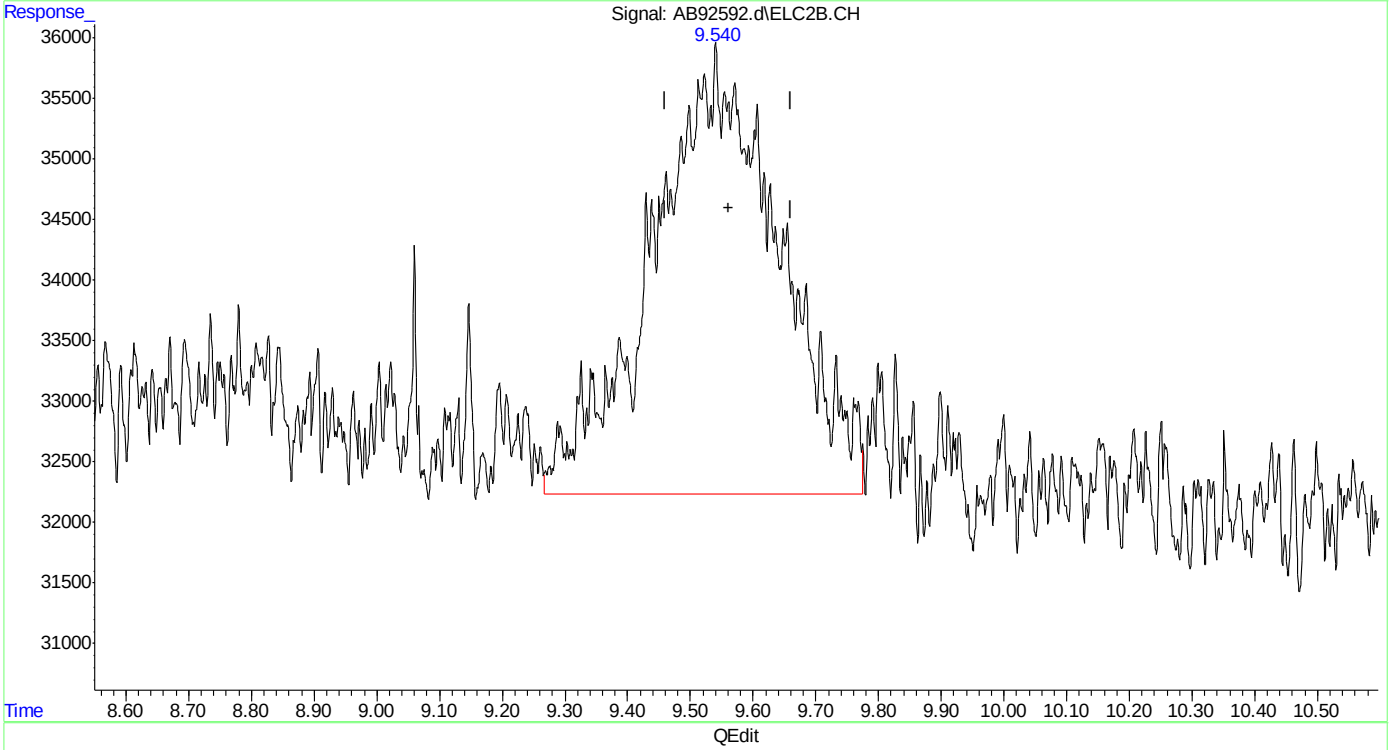
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:00:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
9.540min 1.000 ppb m
response 515933

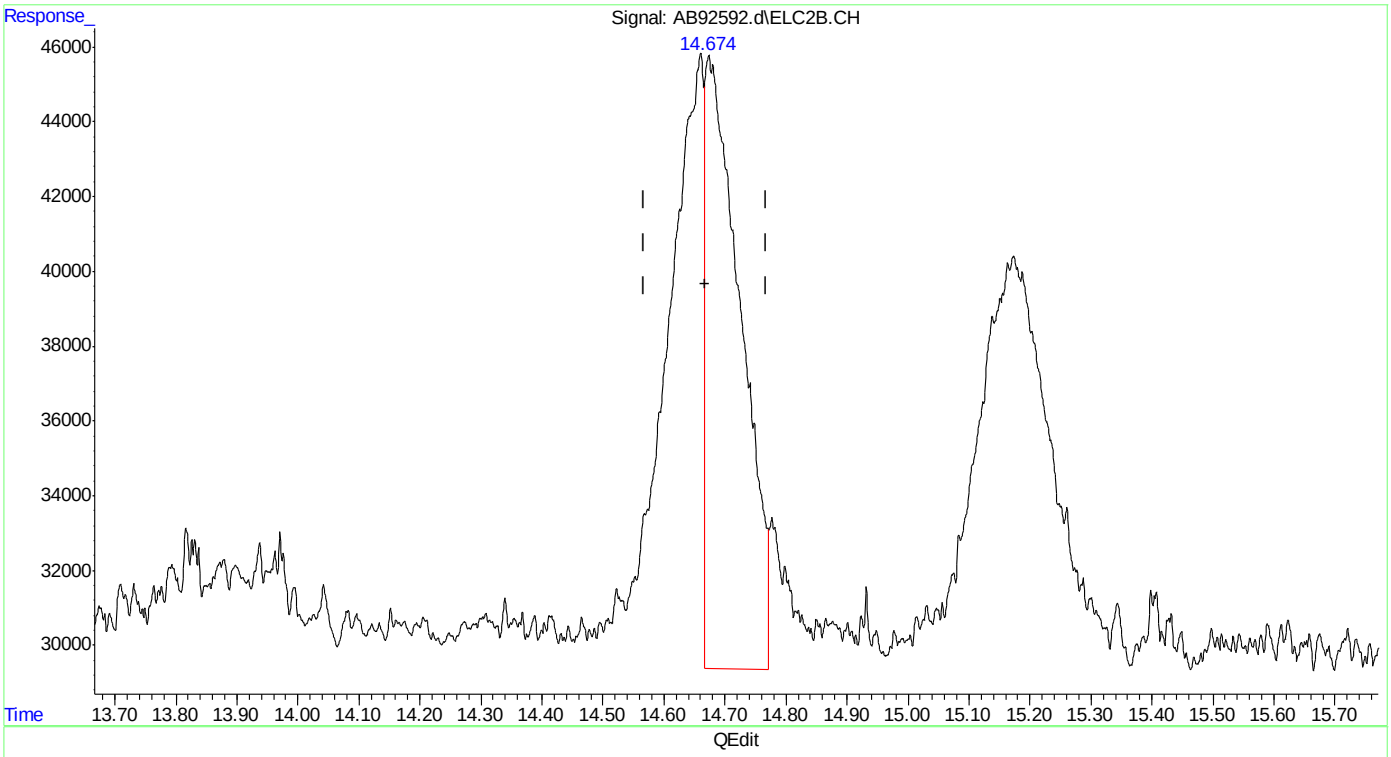
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
14.673min 0.482 ppb
response 665851

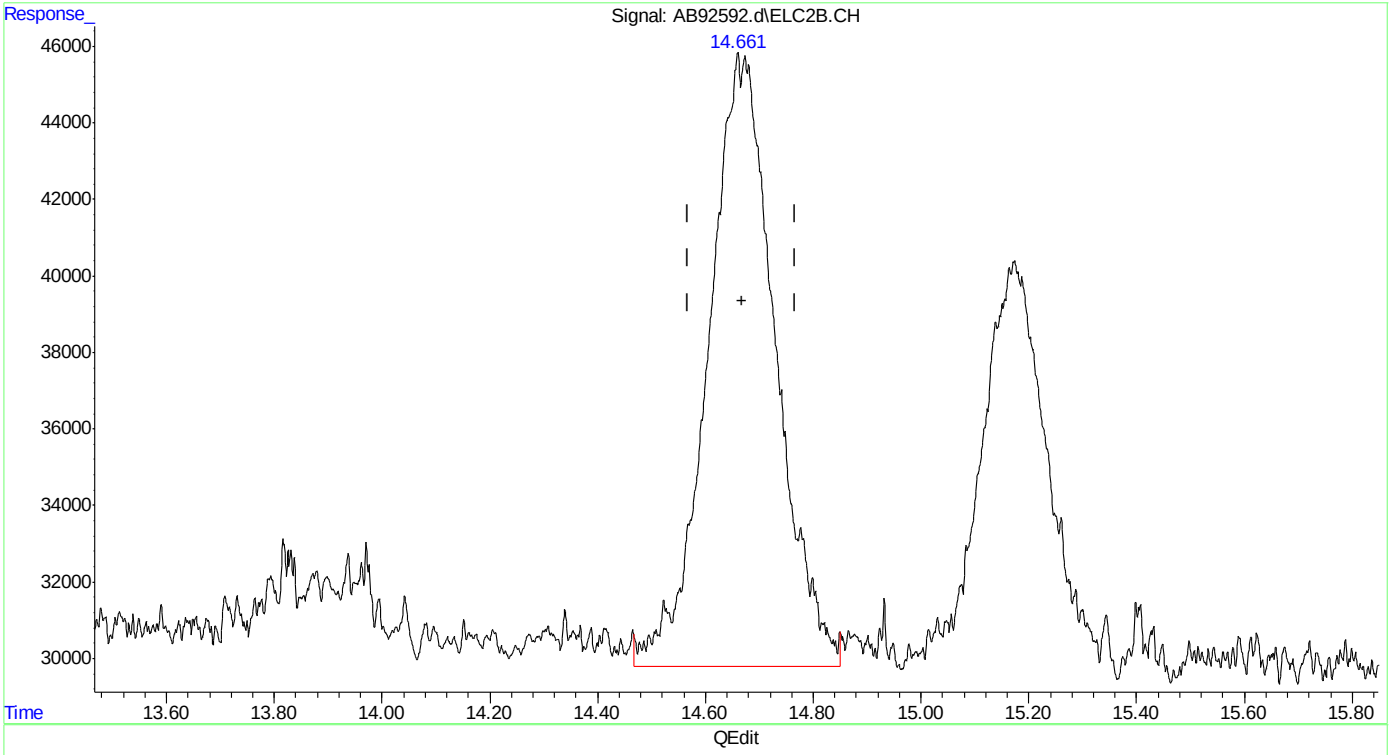
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:01:00 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2

14.661min 1.003 ppb m

response 1385814

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:01:20 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(25) fluorobenzene #2 (s)
15.173min 1.034 ppb
response 900823

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:02:17 2016

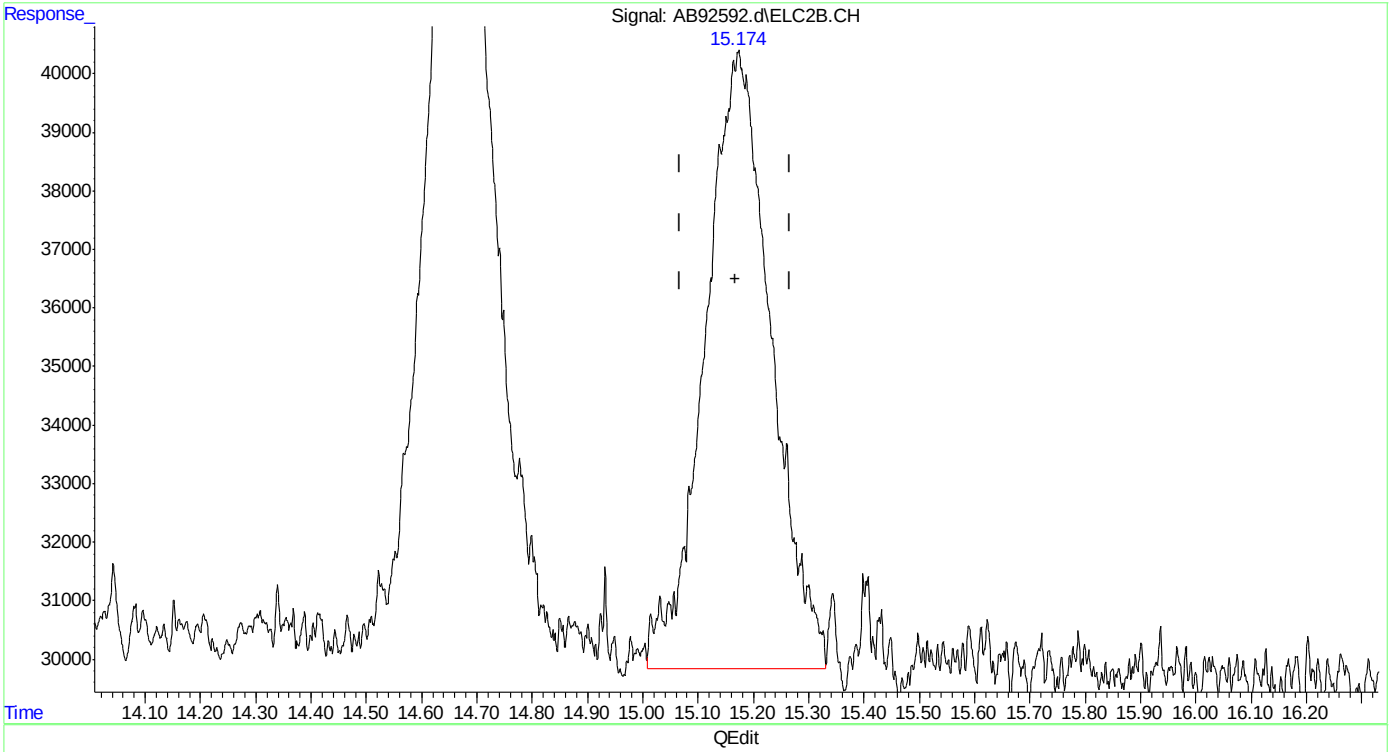
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
15.174min 1.001 ppb m
response 871999

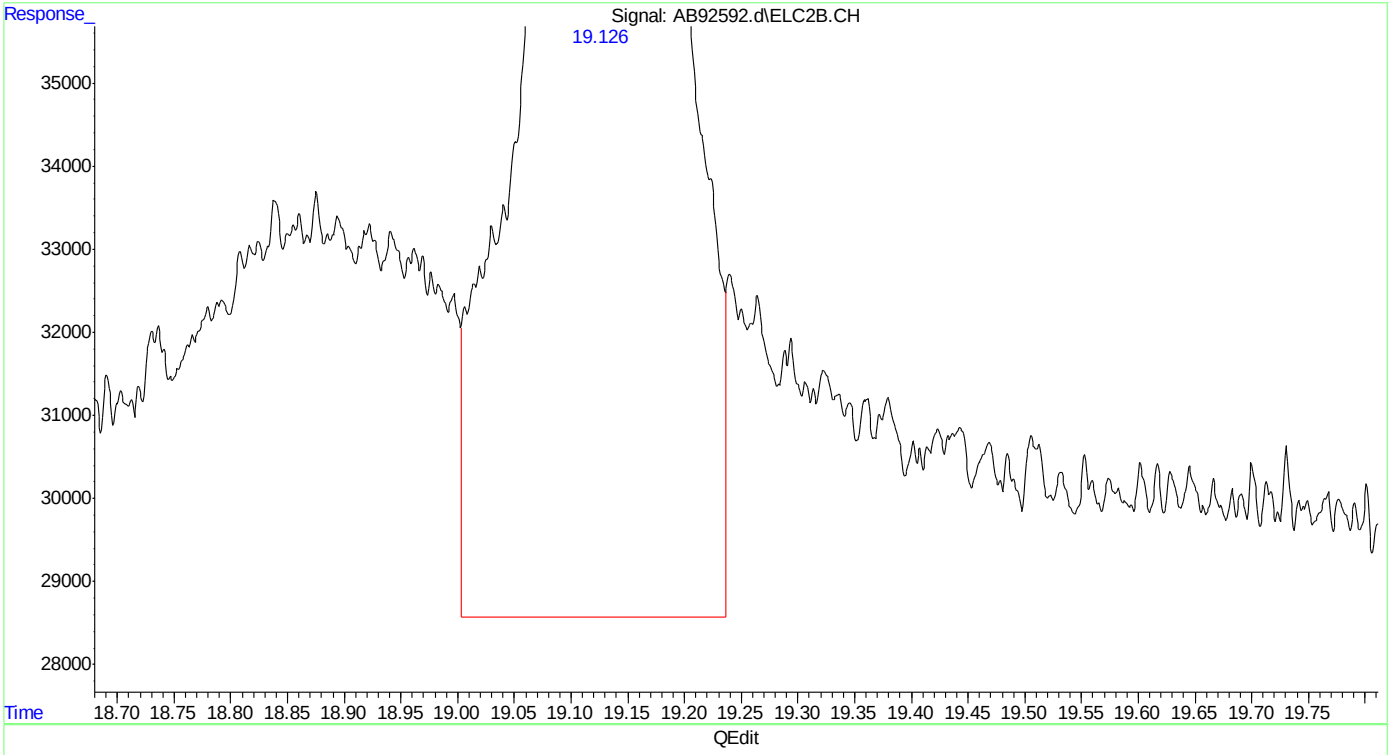
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
19.128min 1.223 ppb
response 1504312

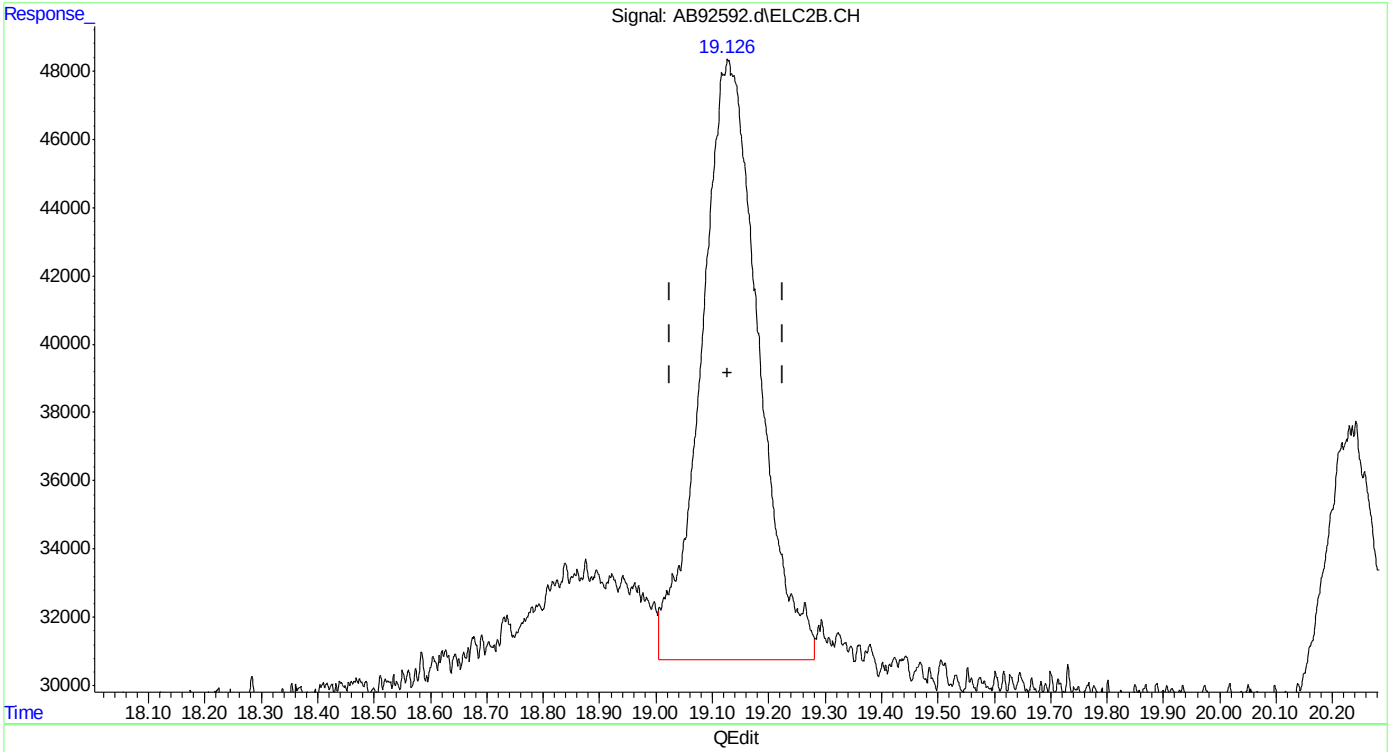
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:02:51 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
19.126min 1.003 ppb m
response 1234262

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:03:11 2016

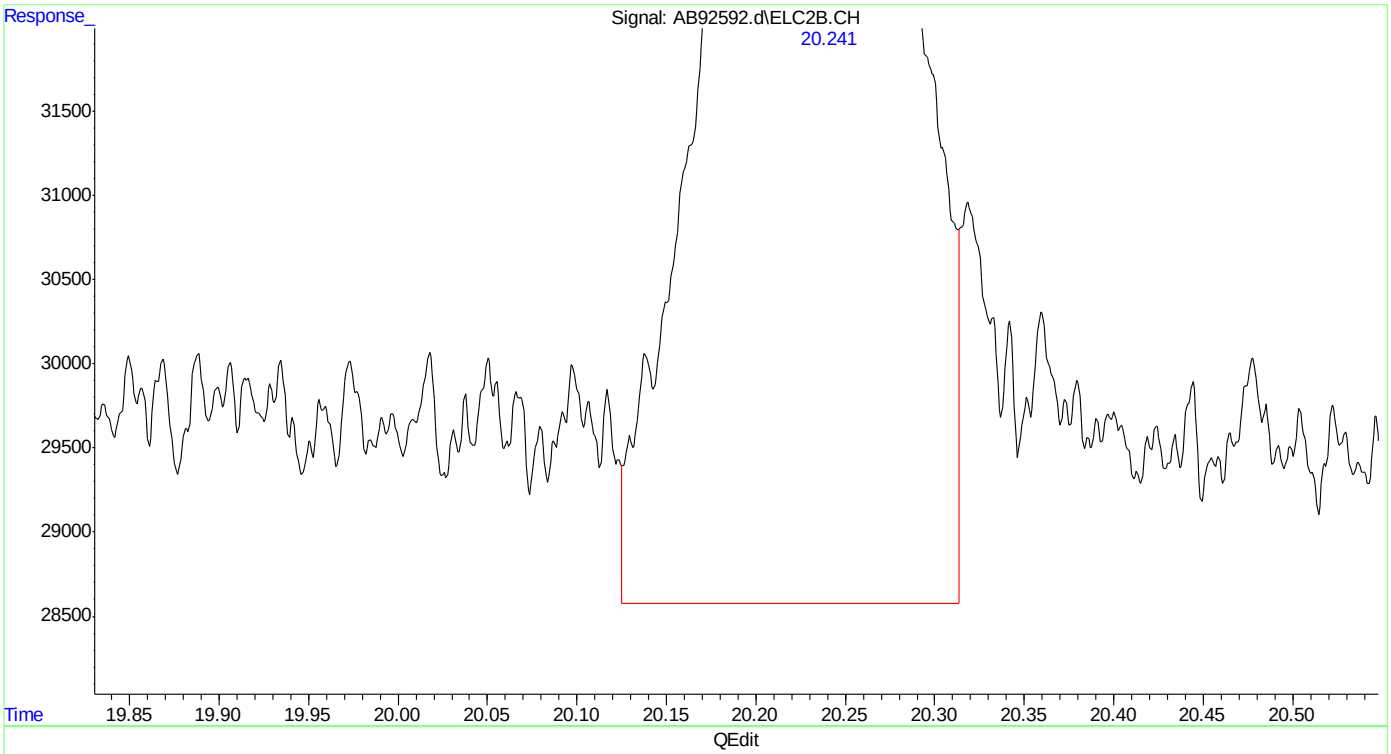
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
20.242min 1.201 ppb
response 576599

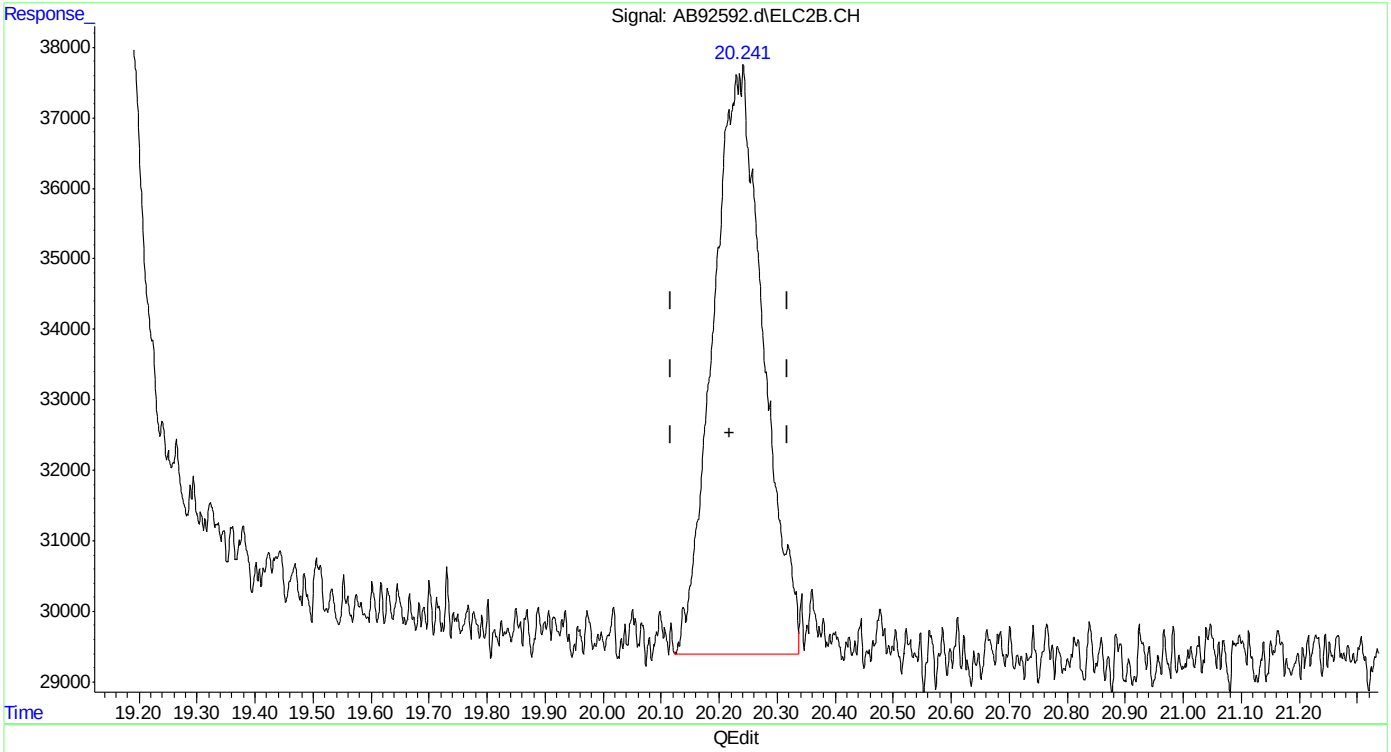
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)

20.241min 1.042 ppb m

response 500356

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:03:29 2016

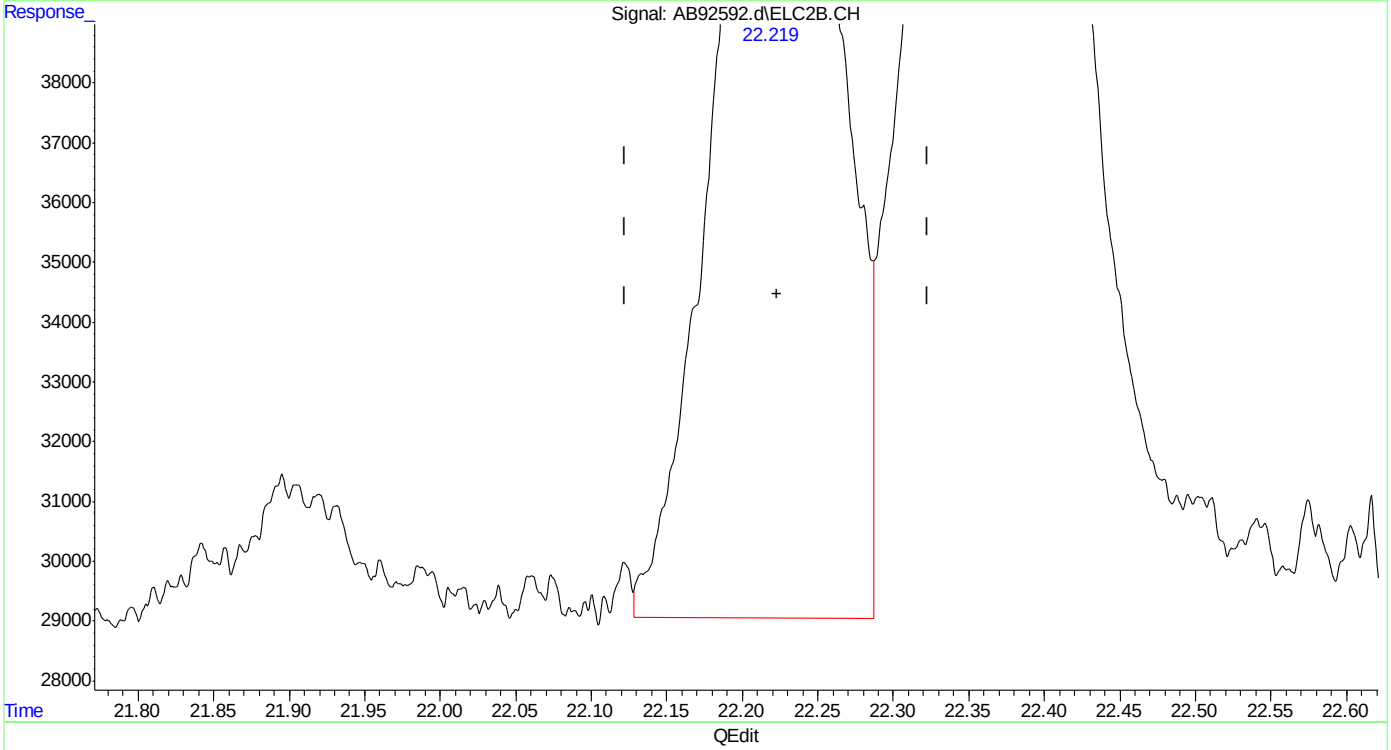
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2
22.220min 0.946 ppb
response 931328

(+) = Expected Retention Time

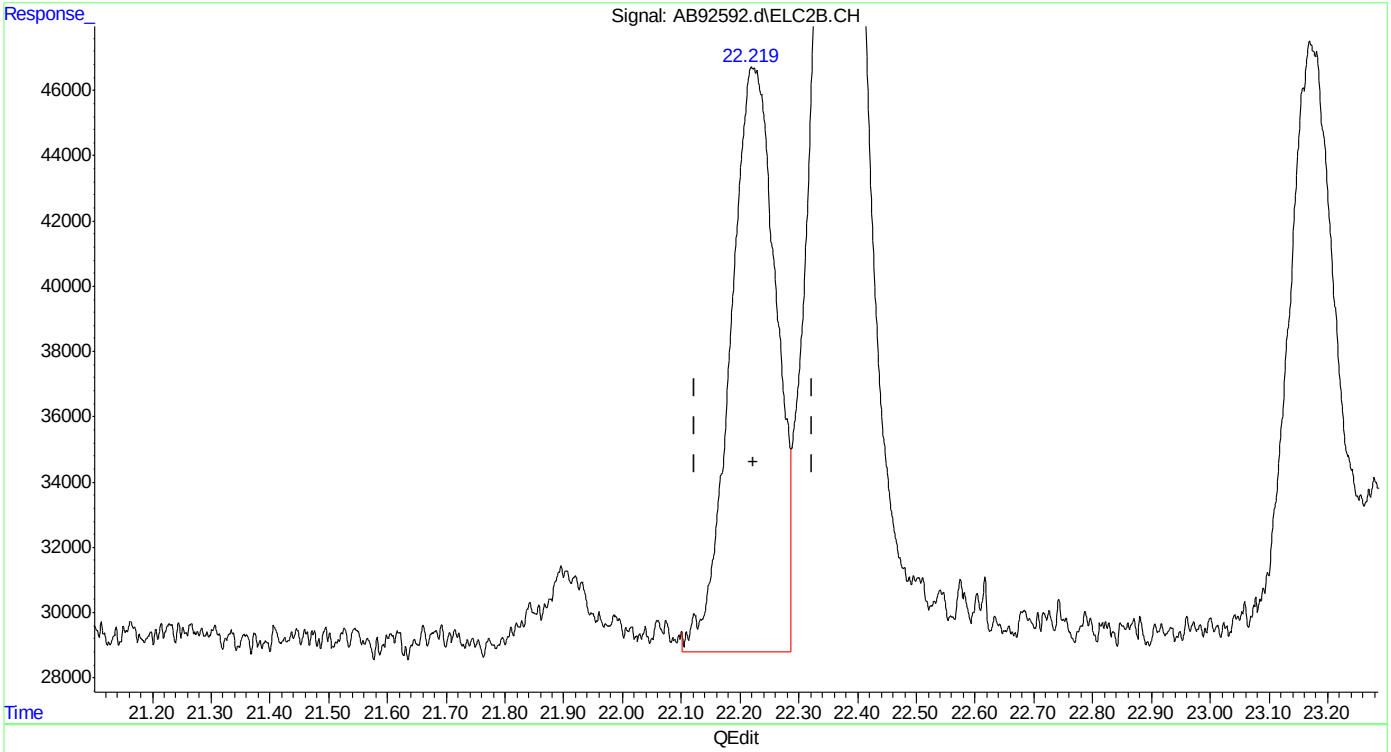
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(28) ethylbenzene #2

22.219min 0.979 ppb m

response 964169

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:03:57 2016

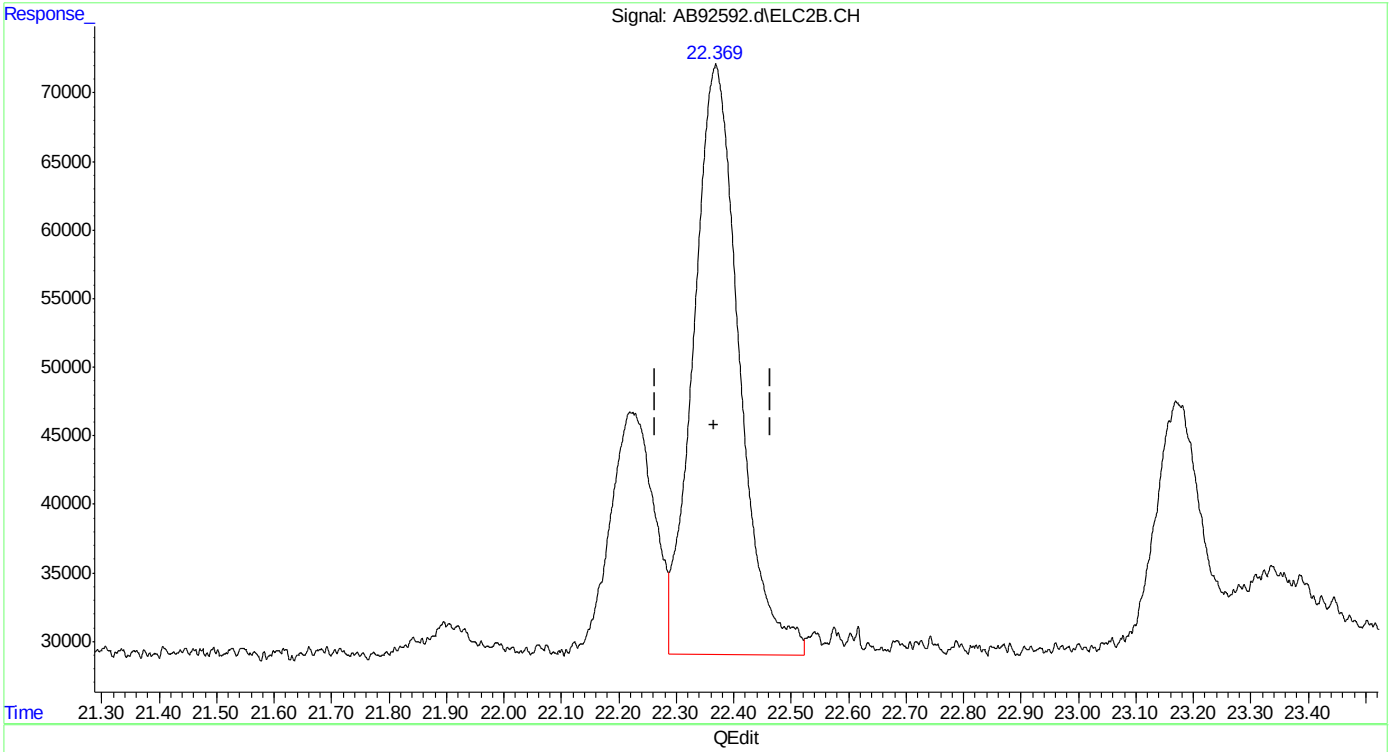
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(29) m,p-xylene #2
22.369min 1.955 ppb
response 2374183

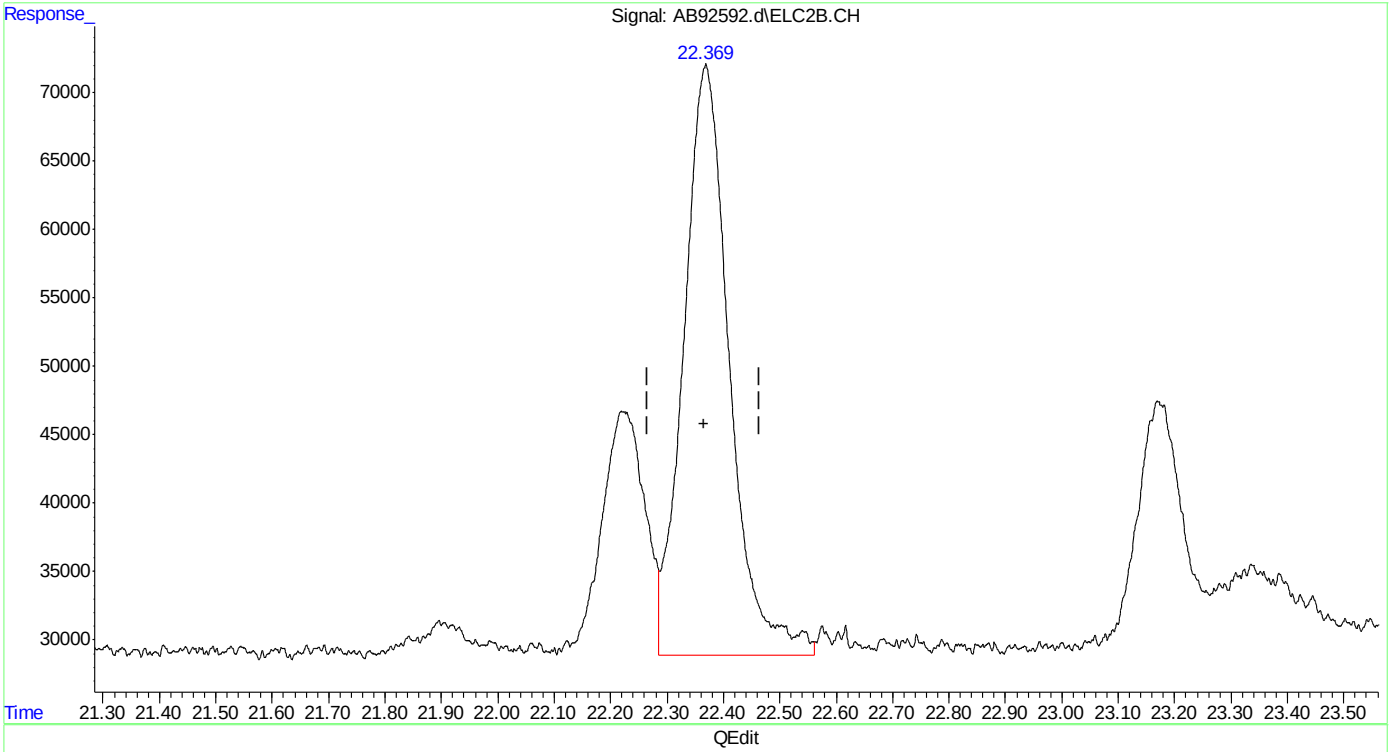
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(29) m,p-xylene #2
22.369min 2.003 ppb m
response 2432291

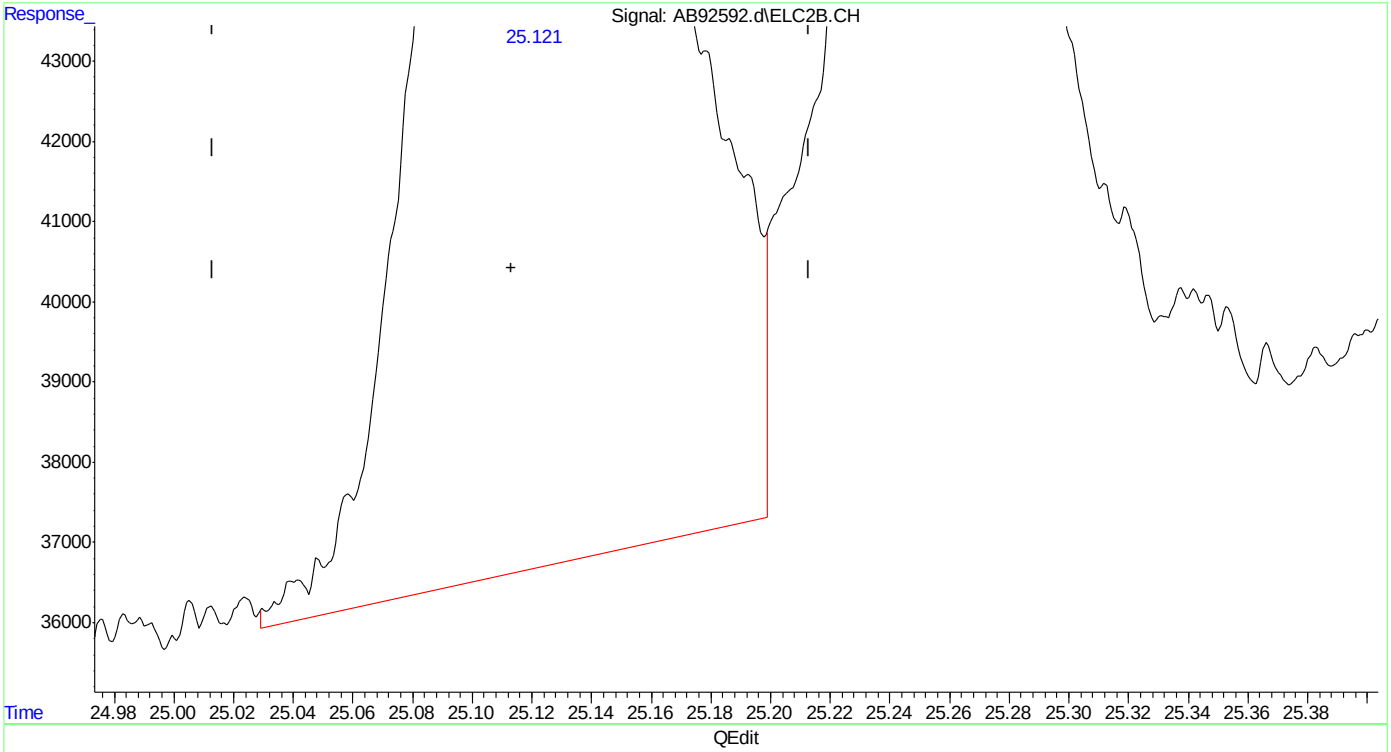
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.121min 0.979 ppb
response 1030211

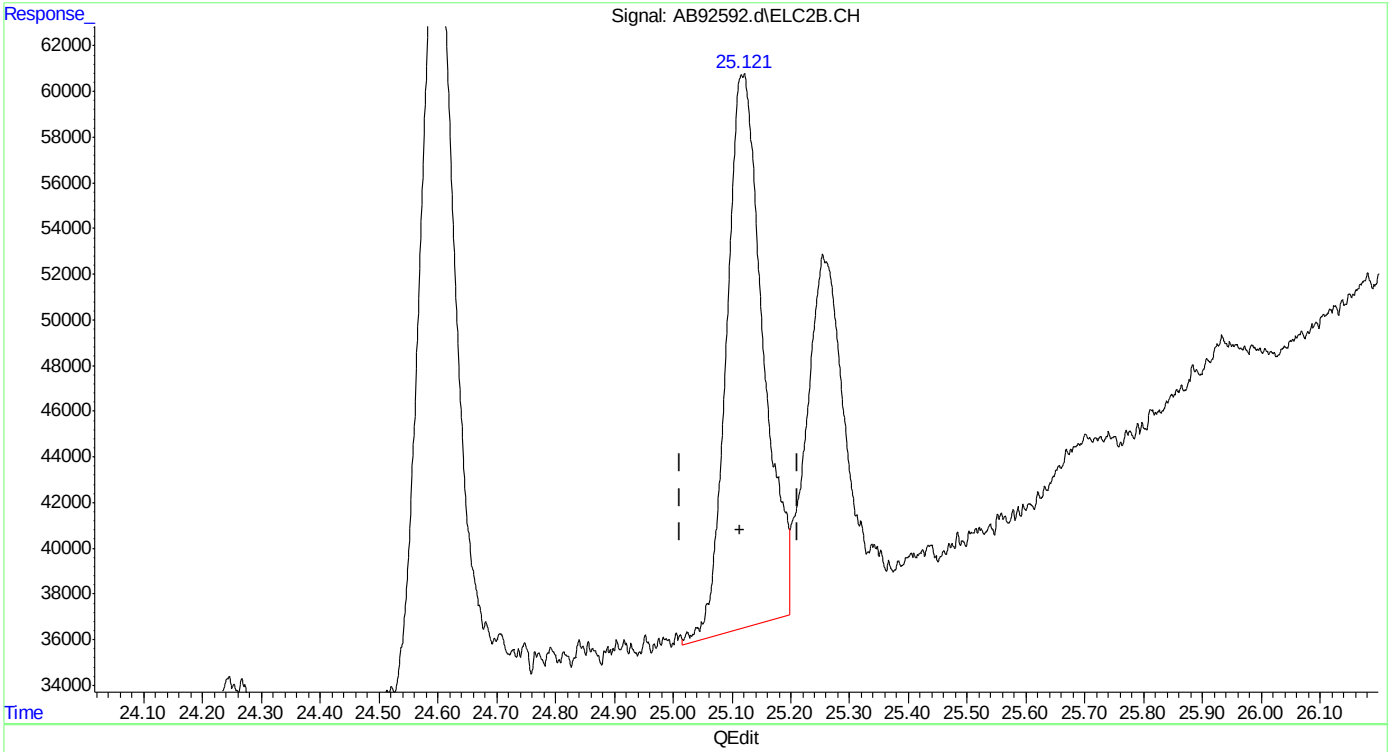
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.121min 0.998 ppb m
response 1050396

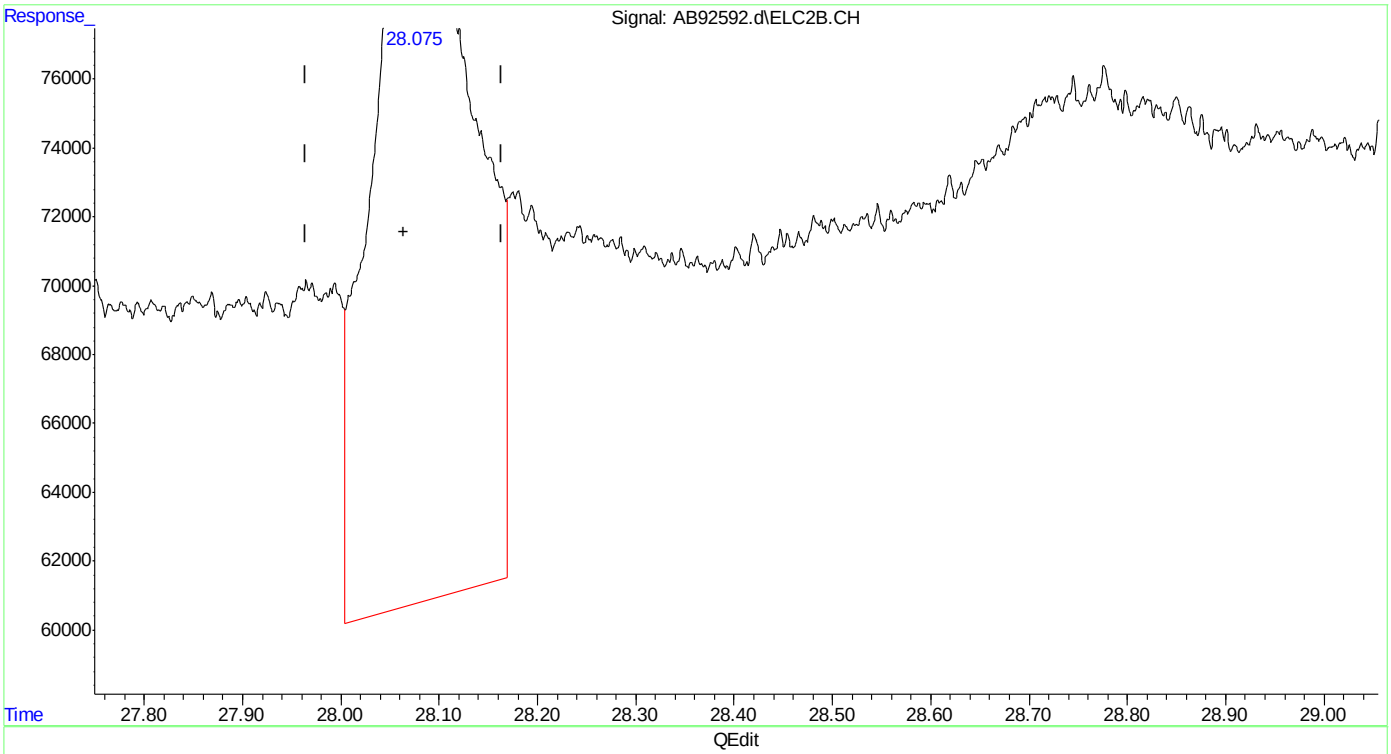
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:45 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2

28.075min 2.188 ppb

response 1817004

(+) = Expected Retention Time

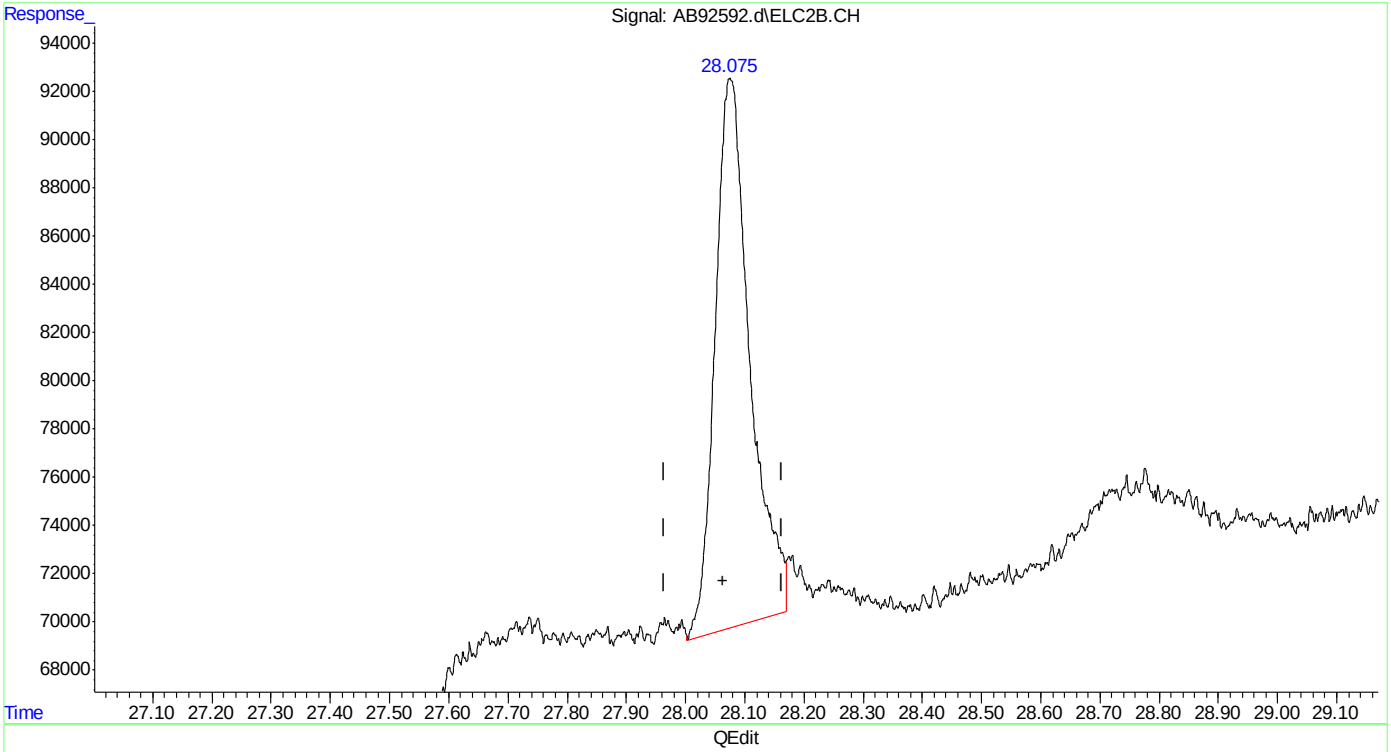
ab160112vphmaster.M Tue Jan 12 14:04:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.075min 1.122 ppb m
response 932025

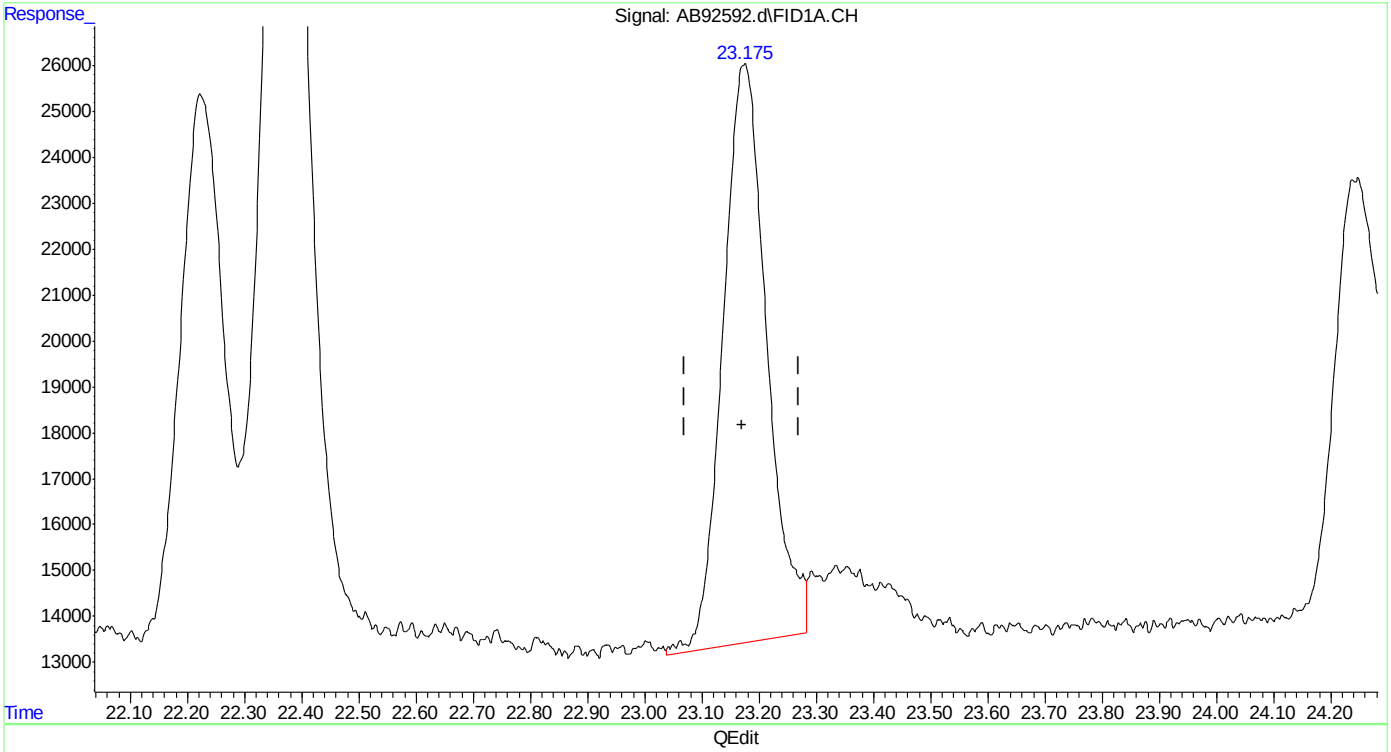
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) o-xylene
23.175min 0.990 ppb m
response 672755

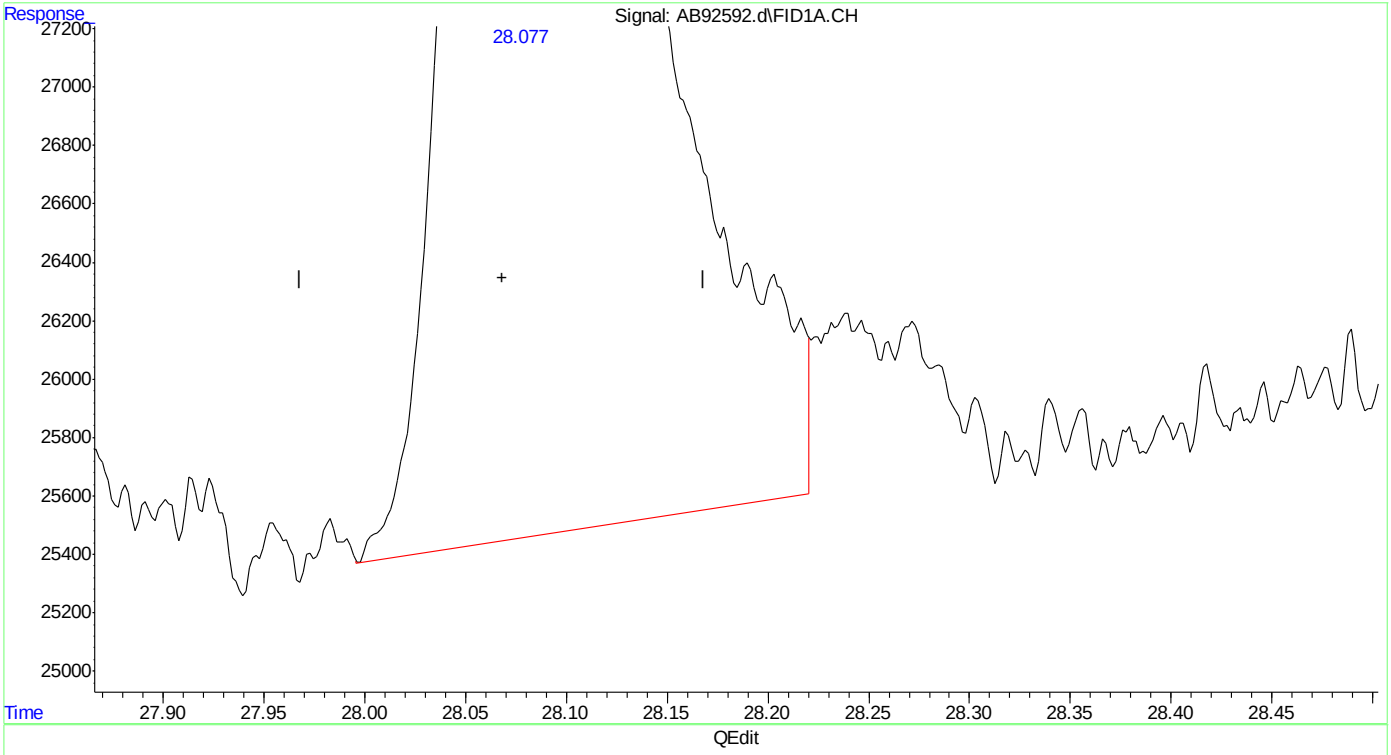
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.077min 1.196 ppb m
response 459832

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
01/13/16 08:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 14:02:22
Operator : haleyn
Sample : icv5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.167	20622765	46.855	ppb	
Spiked Amount 50.000		Recovery =	93.71%		
6) s 2,3,4-trifluorotoluene	20.220	18655151	45.506	ppb	
Spiked Amount 50.000		Recovery =	91.01%		
16) s fluorobenzene #2	15.165	41135835	48.841	ppb	
Spiked Amount 50.000		Recovery =	97.68%		
18) s 2,3,4-trifluorotoluen...	20.218	21681675	46.440	ppb	
Spiked Amount 50.000		Recovery =	92.88%		
Target Compounds					
1) h rt5.5-7	6.370	15547337	38.722	ppb	m
2) h rt7/10	8.710	17999511	44.830	ppb	m
3) h rt10/13	13.890	20920173	52.104	ppb	m
8) h rt20/25	21.900	26744531	42.689	ppb	m
10) h decane	24.230	27320621	43.608	ppb	
11) h butylcyclohexane	25.263	28763512	45.911	ppb	m
14) mtbe #2	9.529	23920523	47.419	ppb	m
15) benzene #2	14.664	65660528	50.444	ppb	
17) toluene #2	19.122	56355118	49.292	ppb	
19) ethylbenzene #2	22.216	45881900	49.556	ppb	
20) m,p-xylene #2	22.359	112454382	106.017	ppb	
21) o-xylene #2	23.164	47383447	50.724	ppb	
22) t 1,3,5-trimethylbenzen...	24.591	63131896	48.321	ppb	
23) 1,2,4-trimethylbenzen...	25.108	47797519	49.943	ppb	
24) naphthalene #2	28.052	33276956	46.032	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.160	47972410	50.073	ppb	m

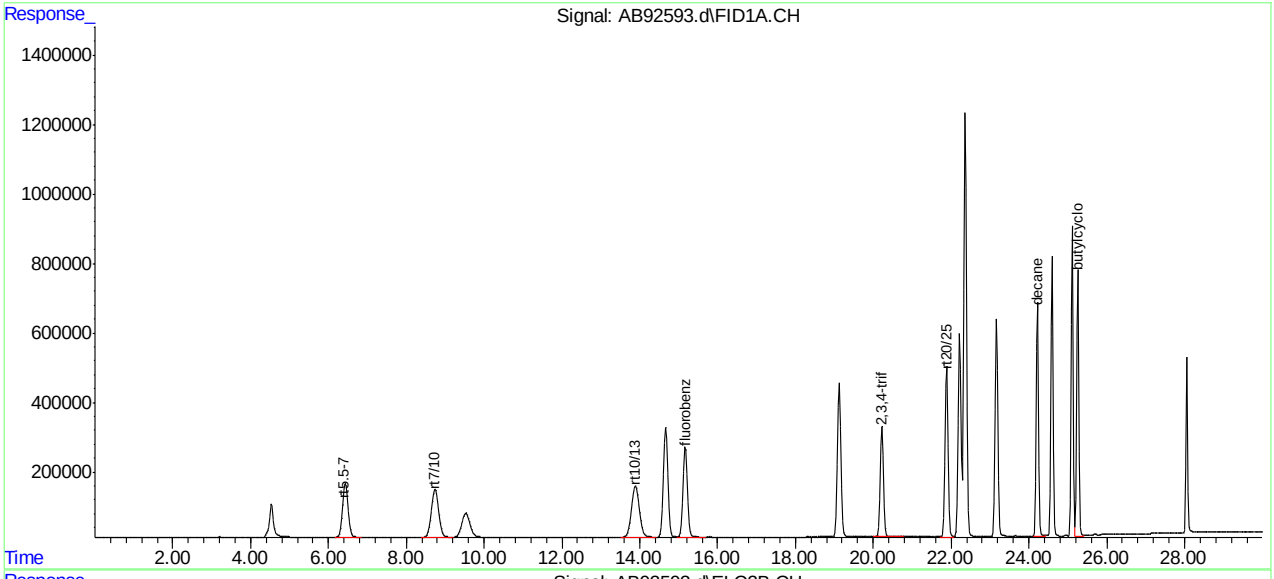
(f)=RT Delta > 1/2 Window (m)=manual int.

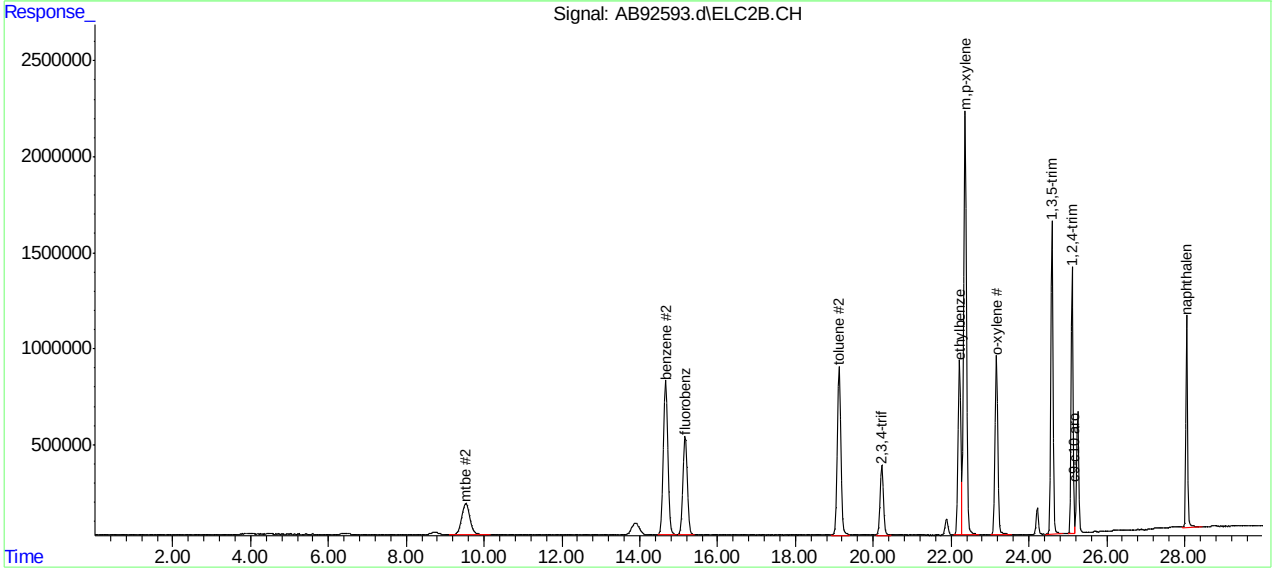
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 14:02:22
Operator : haleyn
Sample : icv5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

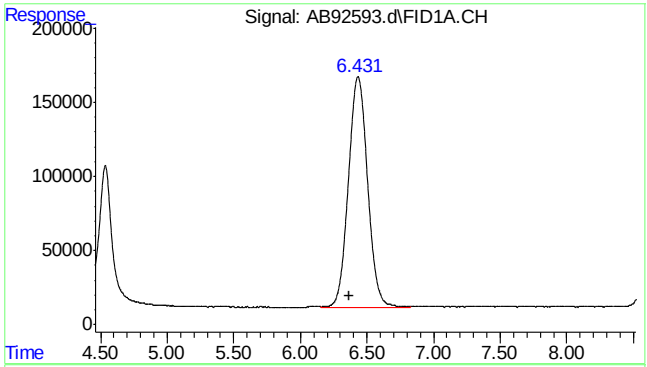
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



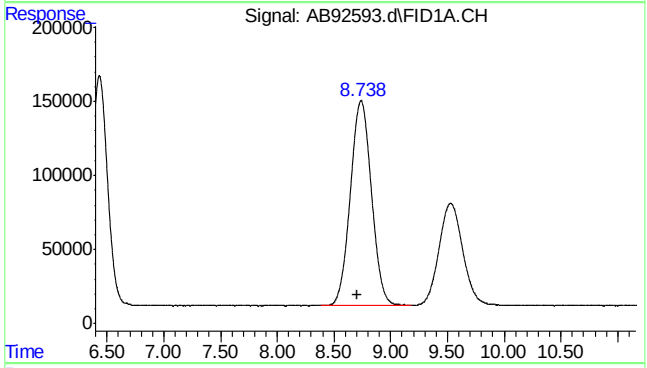


SGS ACCUTEST MC45611



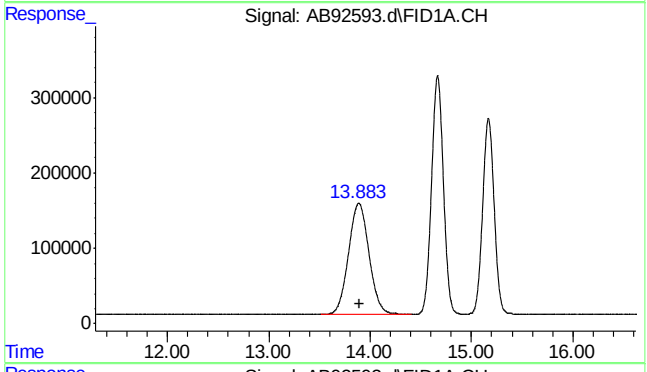
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 15547337
Conc: 38.72 ppb m



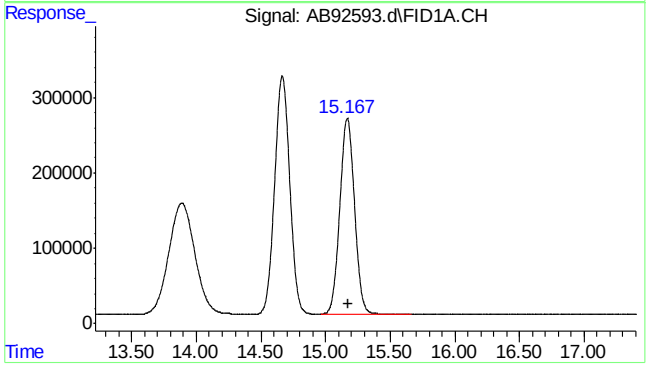
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 17999511
Conc: 44.83 ppb m



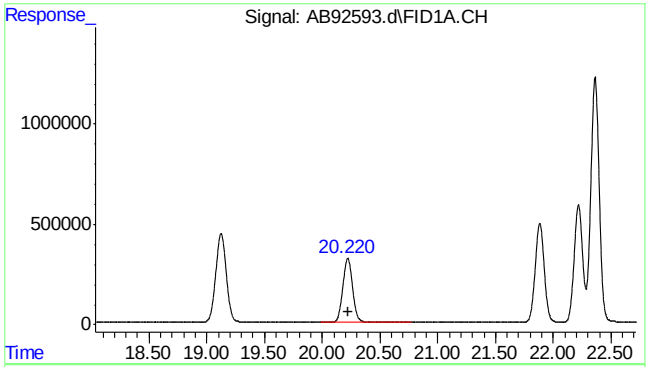
#3 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 20920173
Conc: 52.10 ppb m



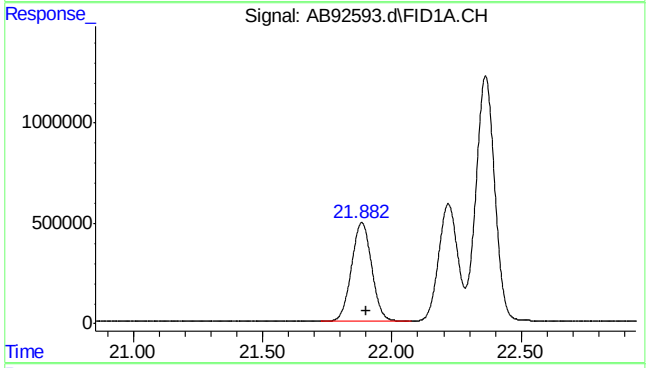
#4 fluorobenzene

R.T.: 15.167 min
Delta R.T.: -0.005 min
Response: 20622765
Conc: 46.86 ppb



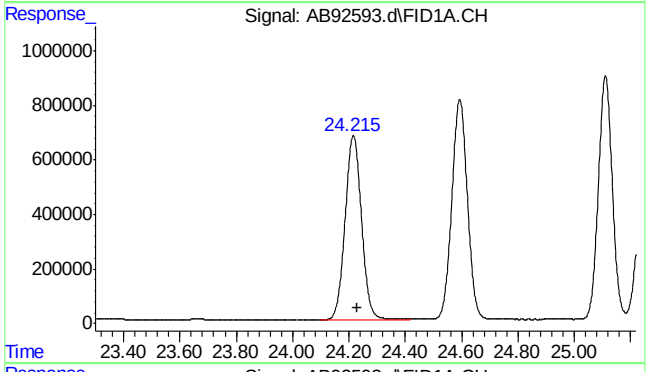
#6 2,3,4-trifluorotoluene

```
      R.T.:   20.220 min
Delta R.T.:   -0.006 min
  Response:  18655151
      Conc:  45.51 ppb
```



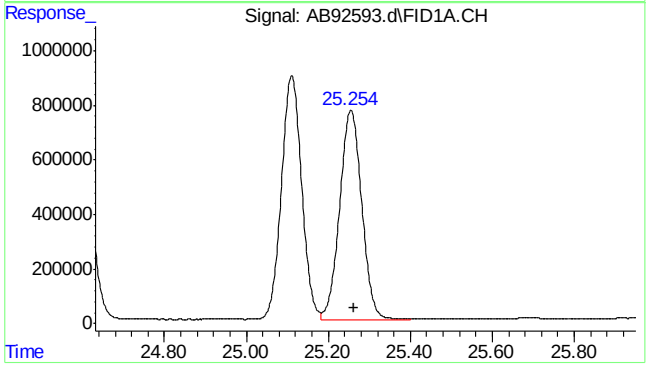
#8 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:  26744531
      Conc:  42.69 ppb m
```



#10 decane

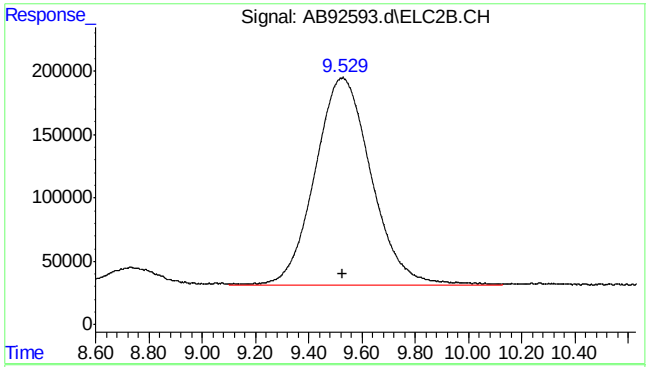
```
      R.T.:   24.230 min
Delta R.T.:    0.000 min
  Response:  27320621
      Conc:  43.61 ppb
```



#11 butylcyclohexane

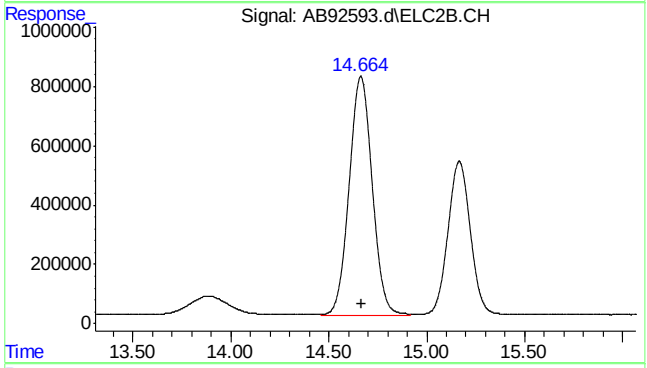
```
      R.T.:   25.263 min
Delta R.T.:    0.000 min
  Response:  28763512
      Conc:  45.91 ppb m
```


SGS ACCUTEST MC45611



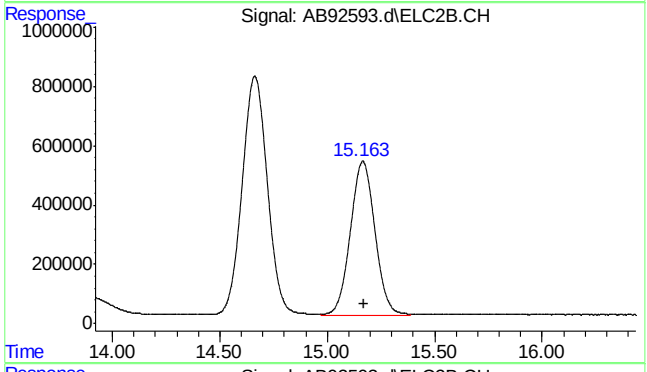
#14 mtbe #2

R.T.: 9.529 min
Delta R.T.: 0.000 min
Response: 23920523
Conc: 47.42 ppb m



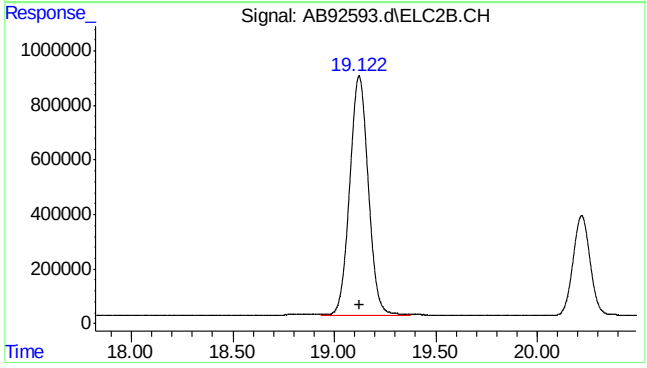
#15 benzene #2

R.T.: 14.664 min
Delta R.T.: -0.002 min
Response: 65660528
Conc: 50.44 ppb



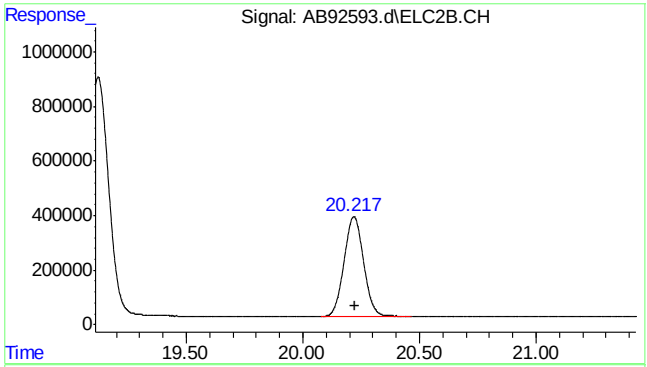
#16 fluorobenzene #2

R.T.: 15.165 min
Delta R.T.: -0.006 min
Response: 41135835
Conc: 48.84 ppb



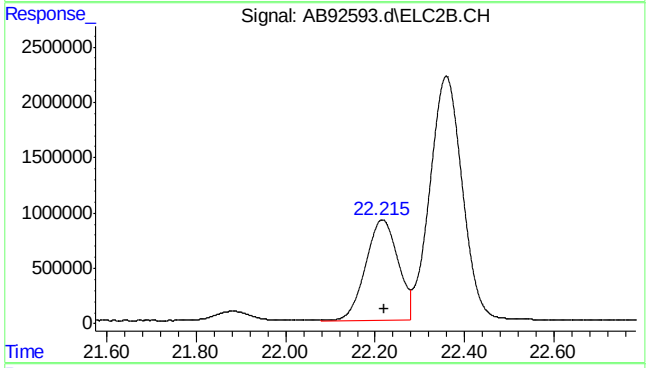
#17 toluene #2

R.T.: 19.122 min
Delta R.T.: -0.003 min
Response: 56355118
Conc: 49.29 ppb



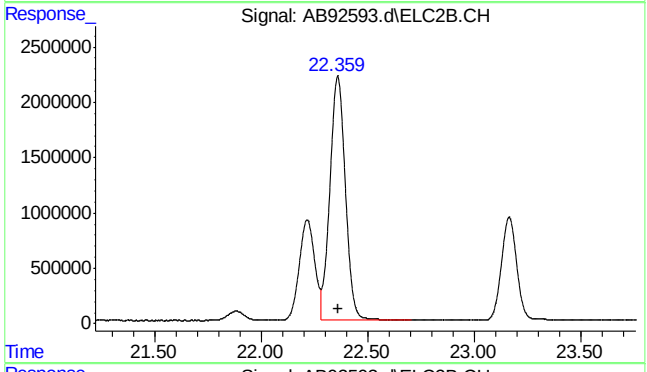
#18 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: -0.005 min
Response: 21681675
Conc: 46.44 ppb



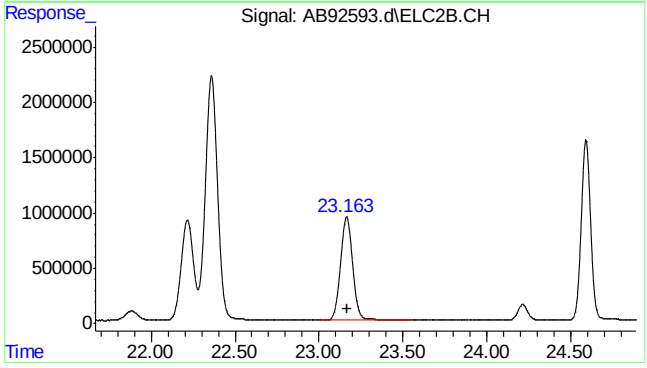
#19 ethylbenzene #2

R.T.: 22.216 min
Delta R.T.: -0.003 min
Response: 45881900
Conc: 49.56 ppb



#20 m,p-xylene #2

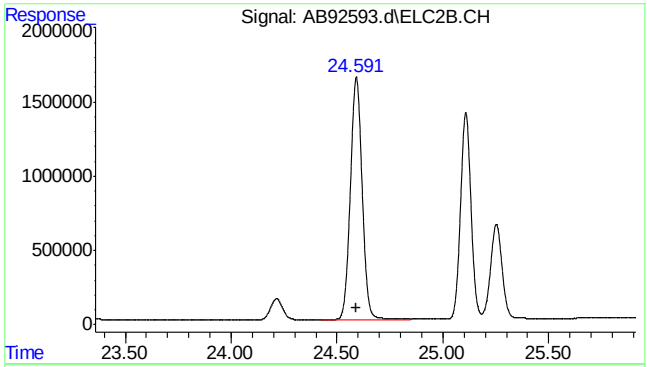
R.T.: 22.359 min
Delta R.T.: -0.003 min
Response: 112454382
Conc: 106.02 ppb



#21 o-xylene #2

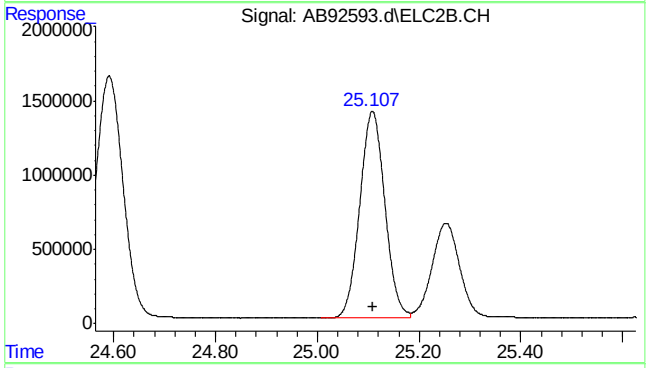
R.T.: 23.164 min
Delta R.T.: -0.003 min
Response: 47383447
Conc: 50.72 ppb

SGS ACCUTEST MC45611



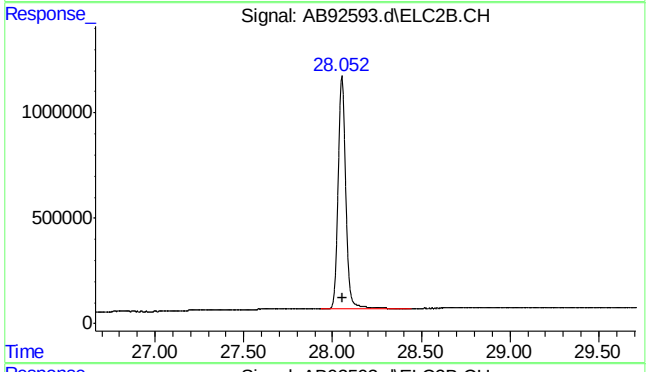
#22 1,3,5-trimethylbenzene #2

R.T.: 24.591 min
Delta R.T.: -0.002 min
Response: 63131896
Conc: 48.32 ppb



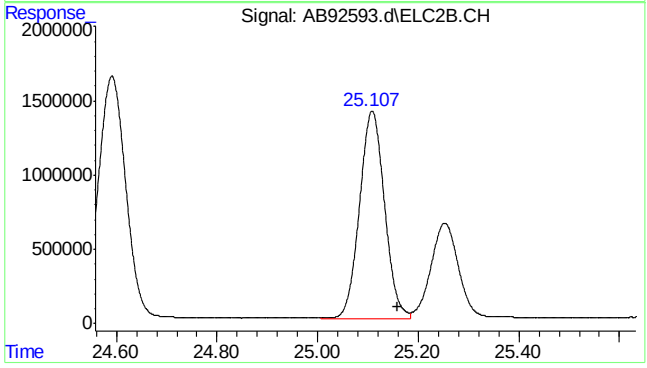
#23 1,2,4-trimethylbenzene #2

R.T.: 25.108 min
Delta R.T.: -0.002 min
Response: 47797519
Conc: 49.94 ppb



#24 naphthalene #2

R.T.: 28.052 min
Delta R.T.: -0.007 min
Response: 33276956
Conc: 46.03 ppb m



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

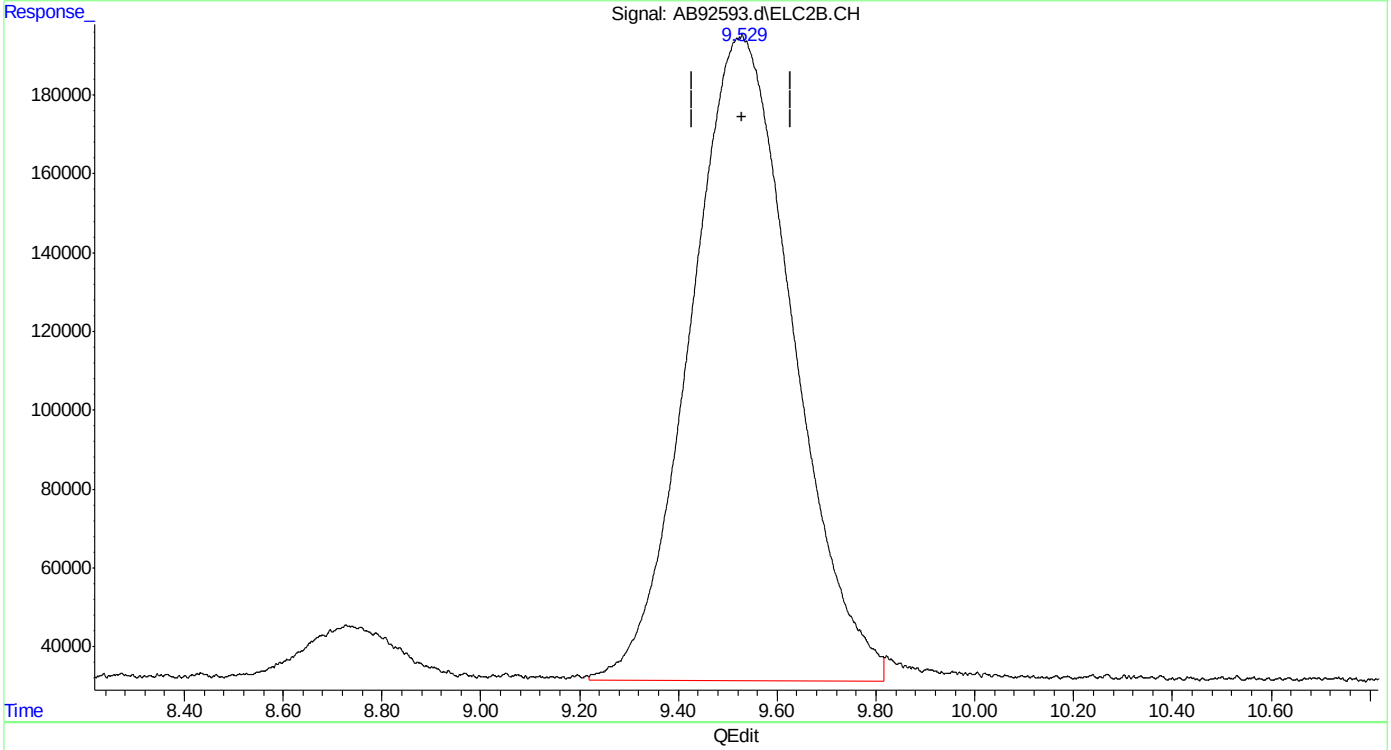
R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 47972410
Conc: 50.07 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 14:02:22
Operator : haleyn
Sample : icv5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.529min 46.820 ppb
response 23618486

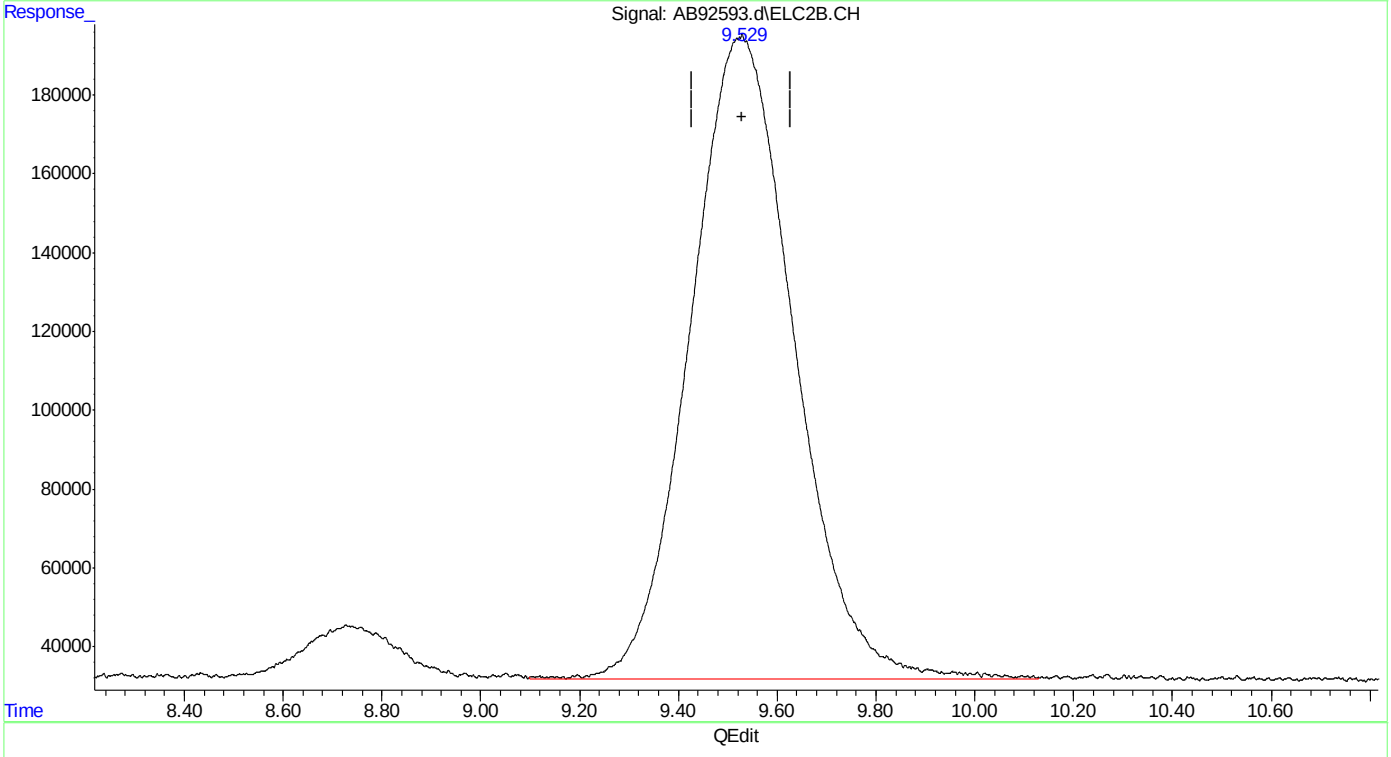
(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 14:02:22
Operator : haleyn
Sample : icv5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.529min 47.419 ppb m
response 23920523

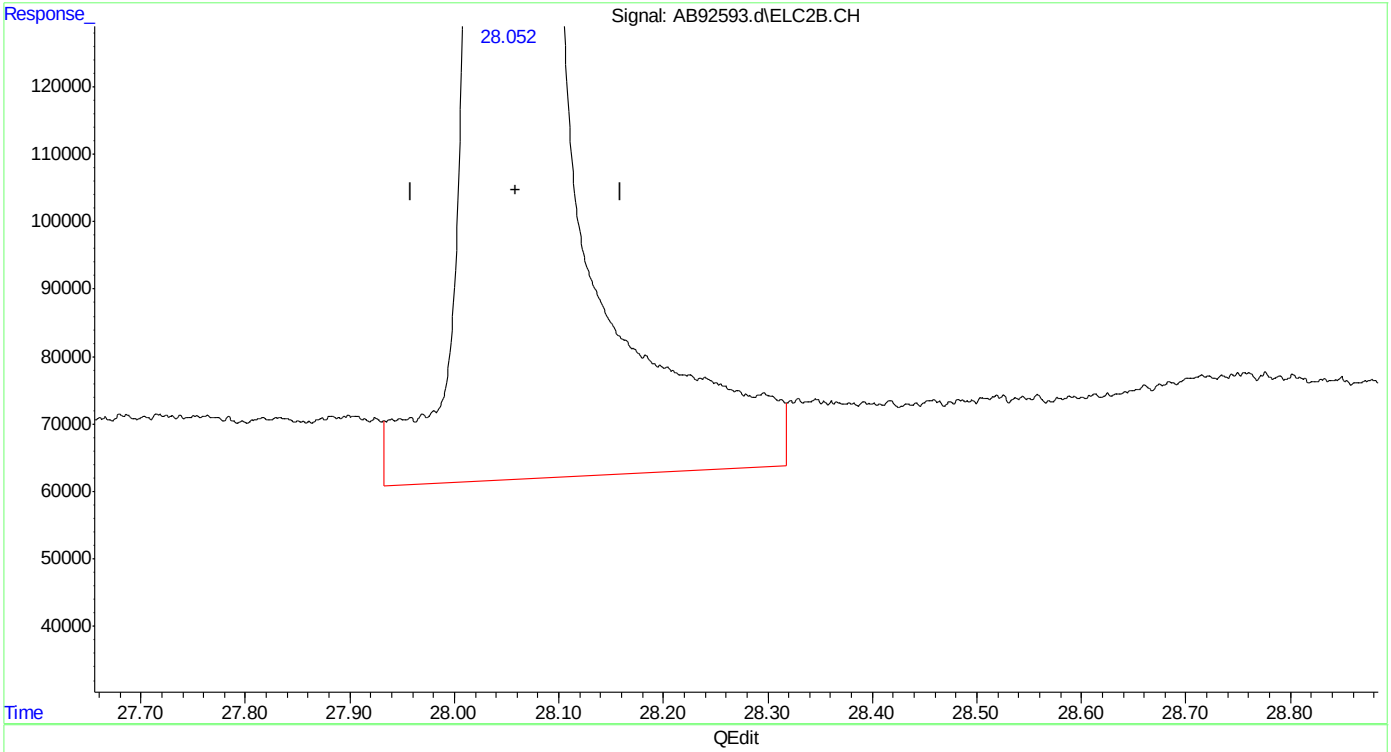
(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:23 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 14:02:22
Operator  : haleyn
Sample    : icv5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.053min 48.358 ppb

response 34958357

(+) = Expected Retention Time

ab160112vph.M Tue Jan 12 15:41:56 2016

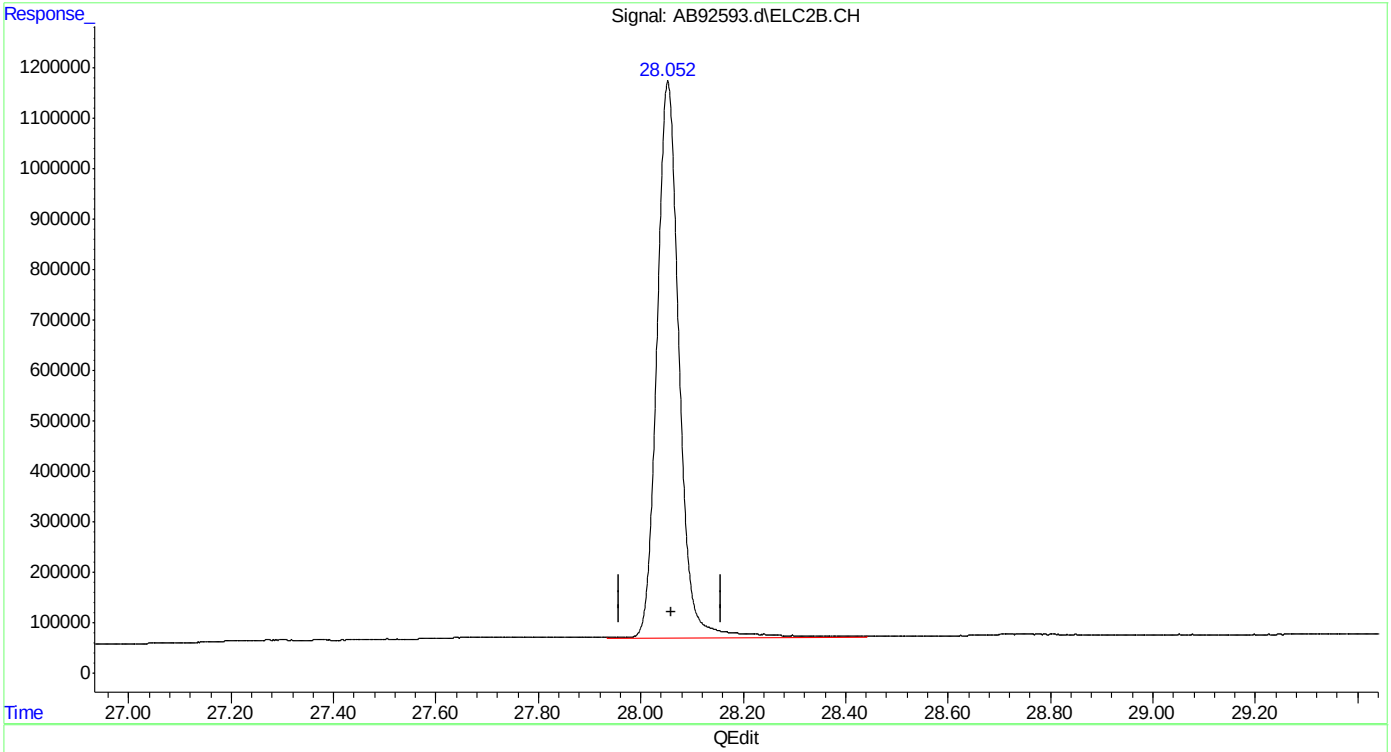
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92593.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 14:02:22
Operator  : haleyn
Sample    : icv5058-50
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.052min 46.032 ppb m

response 33276956

(+) = Expected Retention Time

ab160112vph.M Tue Jan 12 15:42:02 2016

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93907.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 13:56:15
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 14:59:34 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.137	21407676	48.638	ppb	
Spiked Amount 50.000		Recovery =	97.28%		
6) s 2,3,4-trifluorotoluene	20.193	19307594	47.097	ppb	
Spiked Amount 50.000		Recovery =	94.19%		
16) s fluorobenzene #2	15.136	41224426	48.946	ppb	
Spiked Amount 50.000		Recovery =	97.89%		
18) s 2,3,4-trifluorotoluen...	20.191	21436771	45.915	ppb	
Spiked Amount 50.000		Recovery =	91.83%		
Target Compounds					
1) h rt5.5-7	6.420	16242135	40.453	ppb	m
2) h rt7/10	8.720	18879855	47.022	ppb	m
3) h rt10/13	13.870	21747535	54.164	ppb	m
8) h rt20/25	21.870	26156451	41.750	ppb	m
10) h decane	24.200	25948207	41.417	ppb	
11) h butylcyclohexane	25.240	28773216	45.927	ppb	m
14) mtbe #2	9.505	25382716	50.317	ppb	m
15) benzene #2	14.631	63371234	48.685	ppb	
17) toluene #2	19.091	54464721	47.639	ppb	
19) ethylbenzene #2	22.190	44689447	48.269	ppb	
20) m,p-xylene #2	22.333	107773055	101.604	ppb	
21) o-xylene #2	23.139	44849957	48.012	ppb	
22) t 1,3,5-trimethylbenzen...	24.571	58642990	44.885	ppb	
23) 1,2,4-trimethylbenzen...	25.089	45127883	47.154	ppb	
24) naphthalene #2	28.032	32915217	45.531	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45139097	47.116	ppb	m

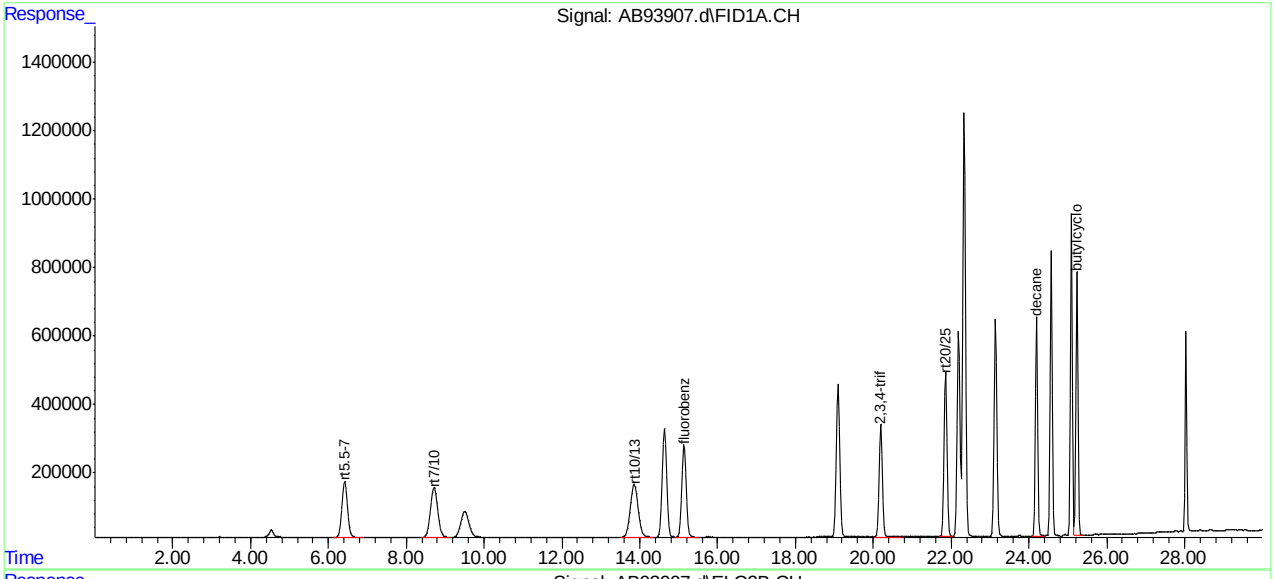
(f)=RT Delta > 1/2 Window (m)=manual int.

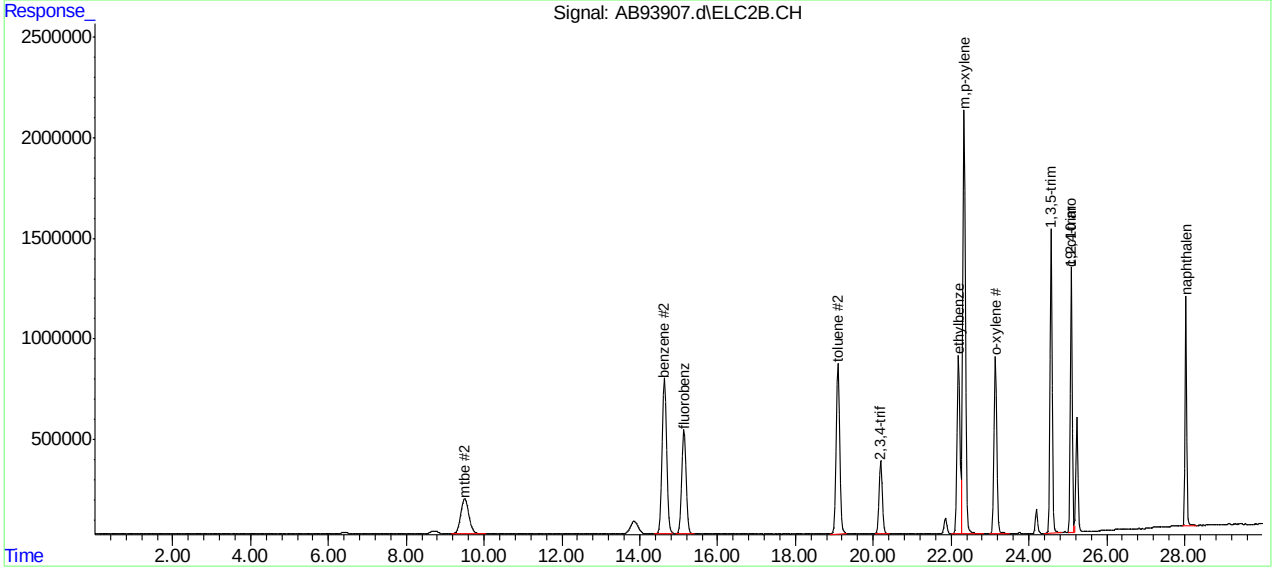
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93907.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 13:56:15
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

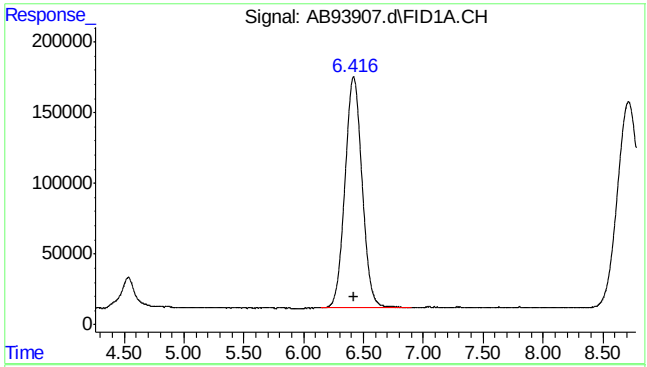
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 14:59:34 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



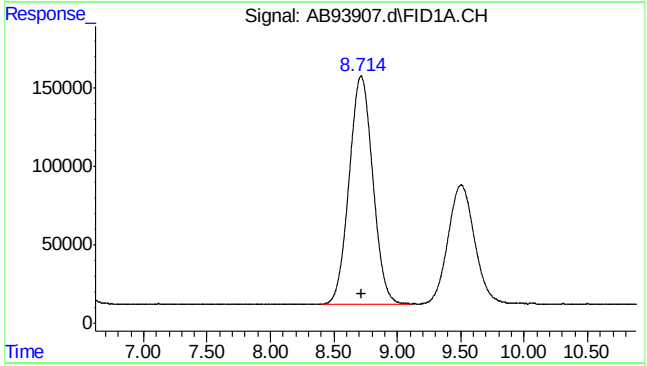


ab160429vph.M Mon May 02 07:13:56 2016 Page: 2



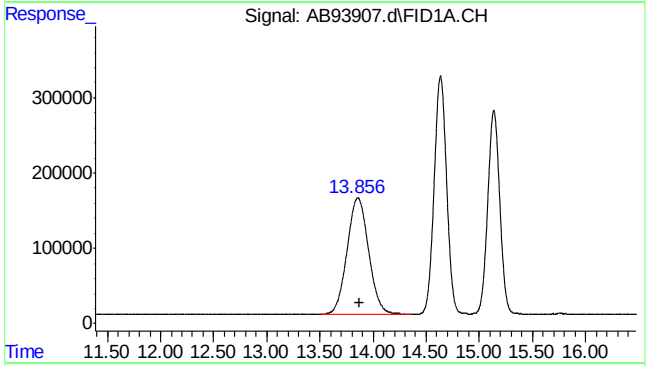
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16242135
Conc: 40.45 ppb m



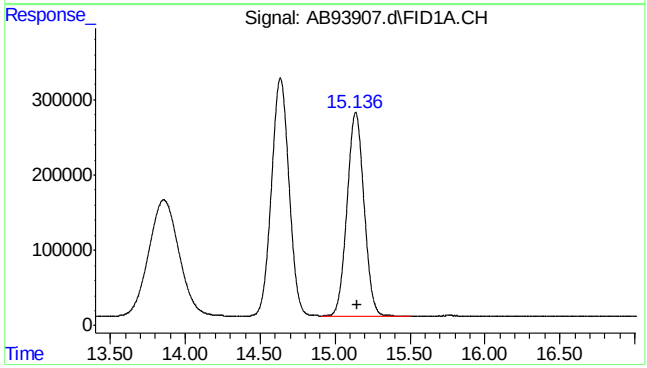
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18879855
Conc: 47.02 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21747535
Conc: 54.16 ppb m



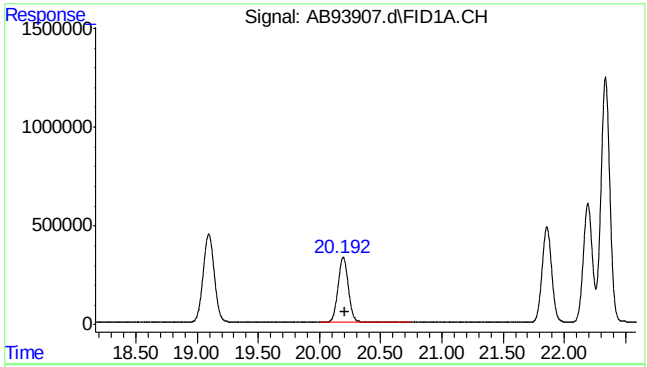
#4 fluorobenzene

R.T.: 15.137 min
Delta R.T.: -0.014 min
Response: 21407676
Conc: 48.64 ppb

7.5.11

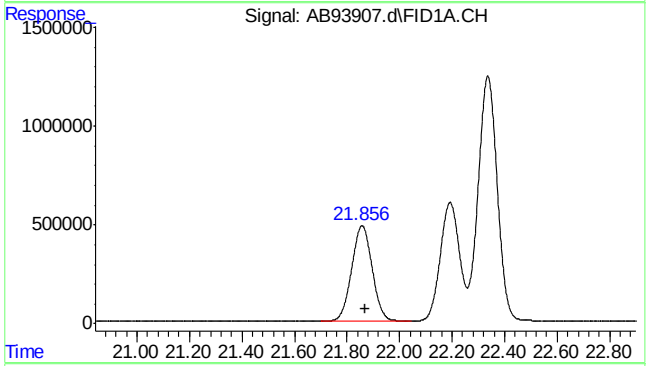
7

SGS ACCUTEST MC45611



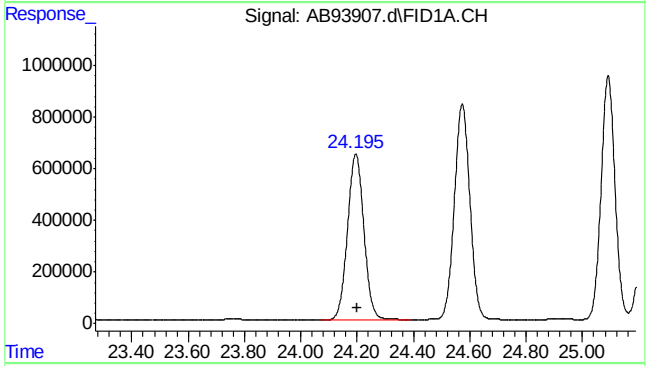
#6 2,3,4-trifluorotoluene

R.T.: 20.193 min
Delta R.T.: -0.012 min
Response: 19307594
Conc: 47.10 ppb



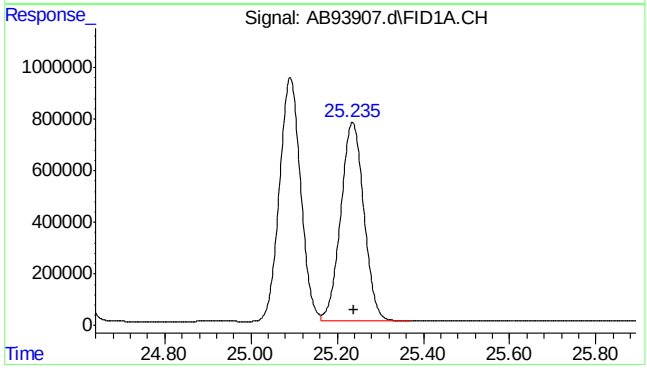
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26156451
Conc: 41.75 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 25948207
Conc: 41.42 ppb



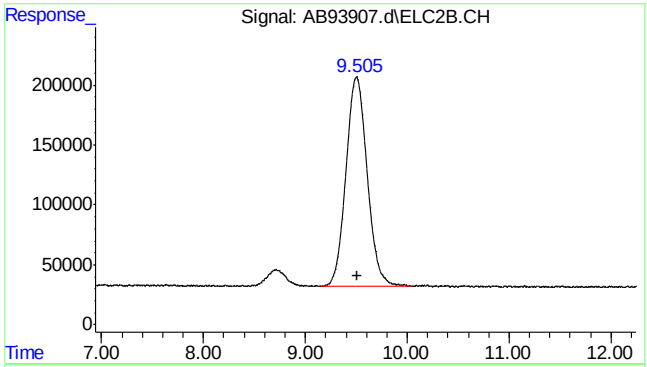
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 28773216
Conc: 45.93 ppb m

7.5.11

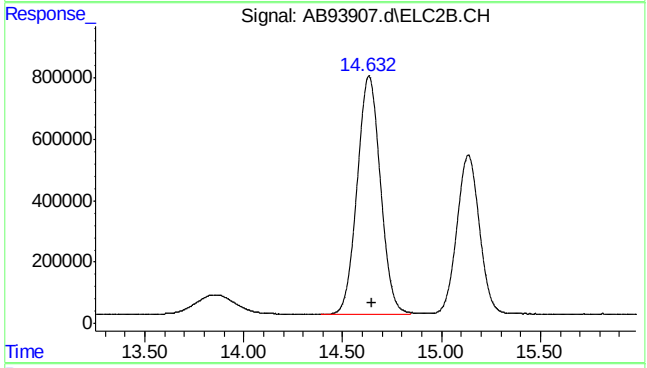
7

SGS ACCUTEST MC45611



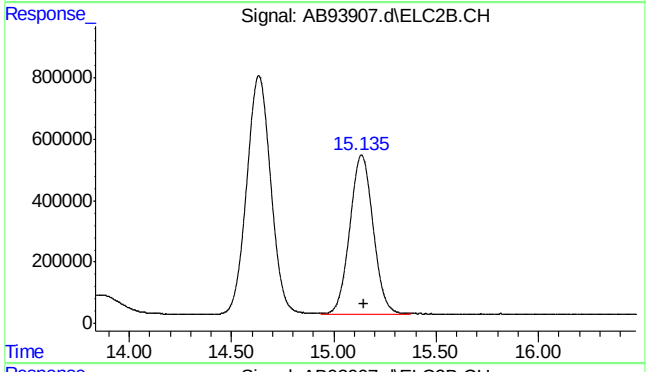
#14 mtbe #2

R.T.: 9.505 min
Delta R.T.: -0.006 min
Response: 25382716
Conc: 50.32 ppb m



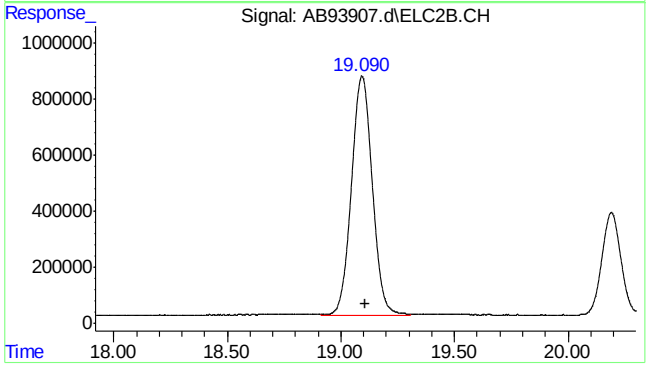
#15 benzene #2

R.T.: 14.631 min
Delta R.T.: -0.015 min
Response: 63371234
Conc: 48.69 ppb



#16 fluorobenzene #2

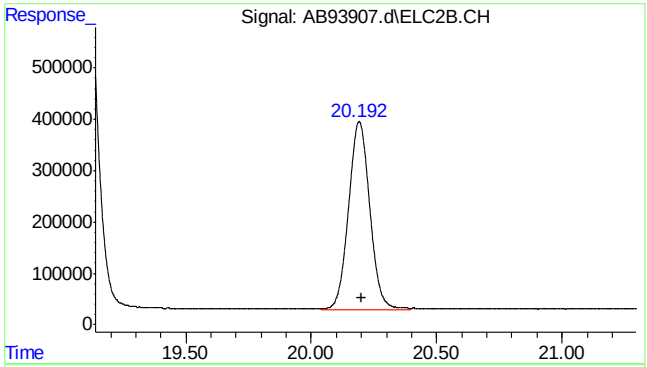
R.T.: 15.136 min
Delta R.T.: -0.012 min
Response: 41224426
Conc: 48.95 ppb



#17 toluene #2

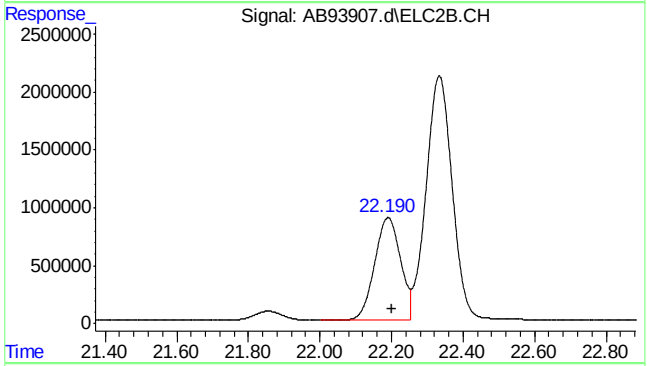
R.T.: 19.091 min
Delta R.T.: -0.015 min
Response: 54464721
Conc: 47.64 ppb

SGS ACCUTEST MC45611



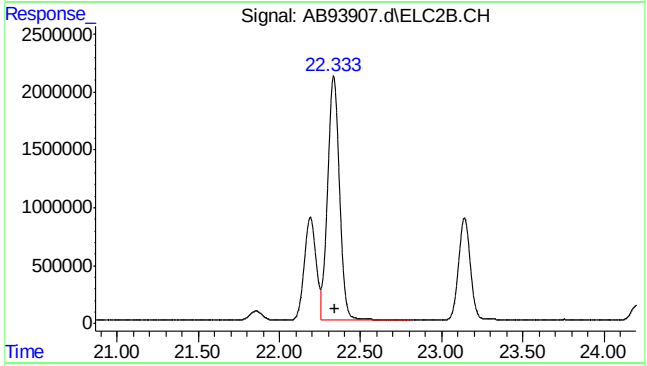
#18 2,3,4-trifluorotoluene #2

R.T.: 20.191 min
Delta R.T.: -0.012 min
Response: 21436771
Conc: 45.92 ppb



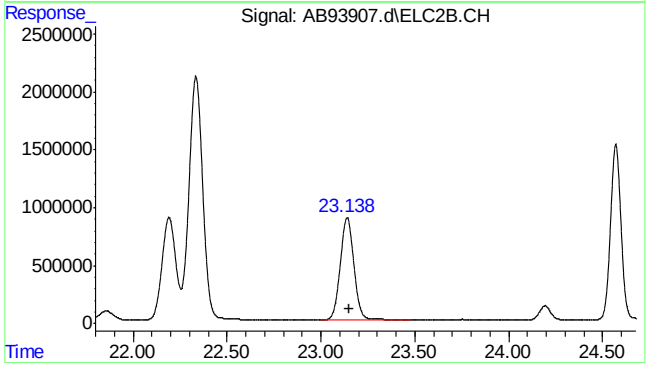
#19 ethylbenzene #2

R.T.: 22.190 min
Delta R.T.: -0.011 min
Response: 44689447
Conc: 48.27 ppb



#20 m,p-xylene #2

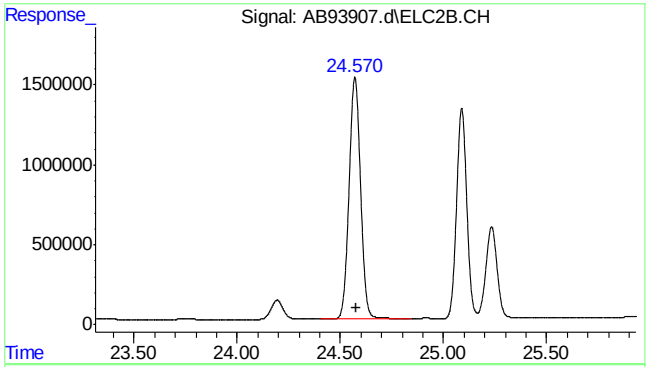
R.T.: 22.333 min
Delta R.T.: -0.011 min
Response: 107773055
Conc: 101.60 ppb



#21 o-xylene #2

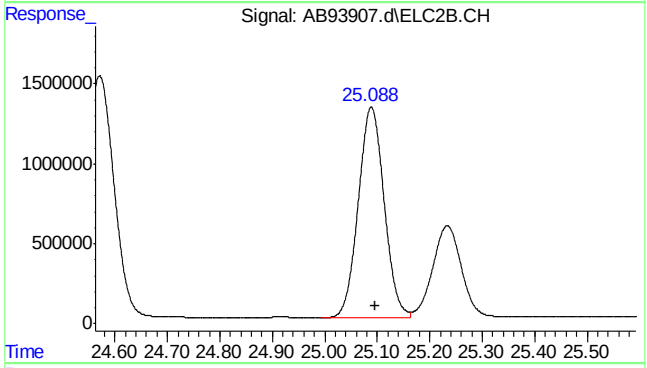
R.T.: 23.139 min
Delta R.T.: -0.011 min
Response: 44849957
Conc: 48.01 ppb

SGS ACCUTEST MC45611



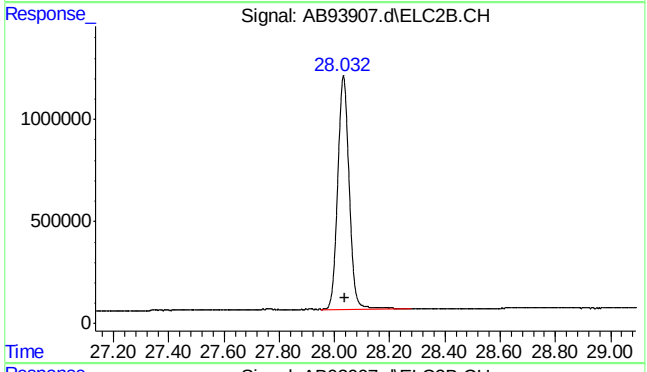
#22 1,3,5-trimethylbenzene #2

R.T.: 24.571 min
Delta R.T.: -0.008 min
Response: 58642990
Conc: 44.89 ppb



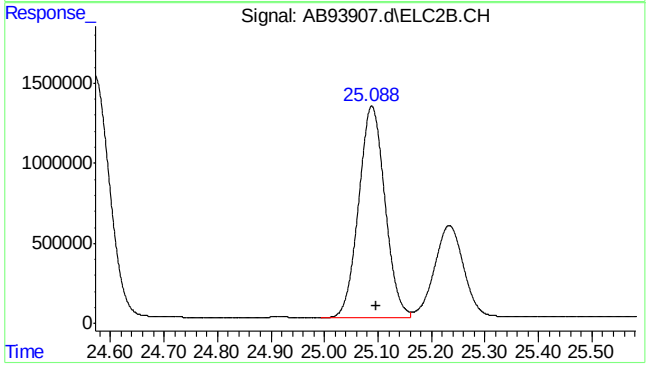
#23 1,2,4-trimethylbenzene #2

R.T.: 25.089 min
Delta R.T.: -0.007 min
Response: 45127883
Conc: 47.15 ppb



#24 naphthalene #2

R.T.: 28.032 min
Delta R.T.: -0.007 min
Response: 32915217
Conc: 45.53 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45139097
Conc: 47.12 ppb m

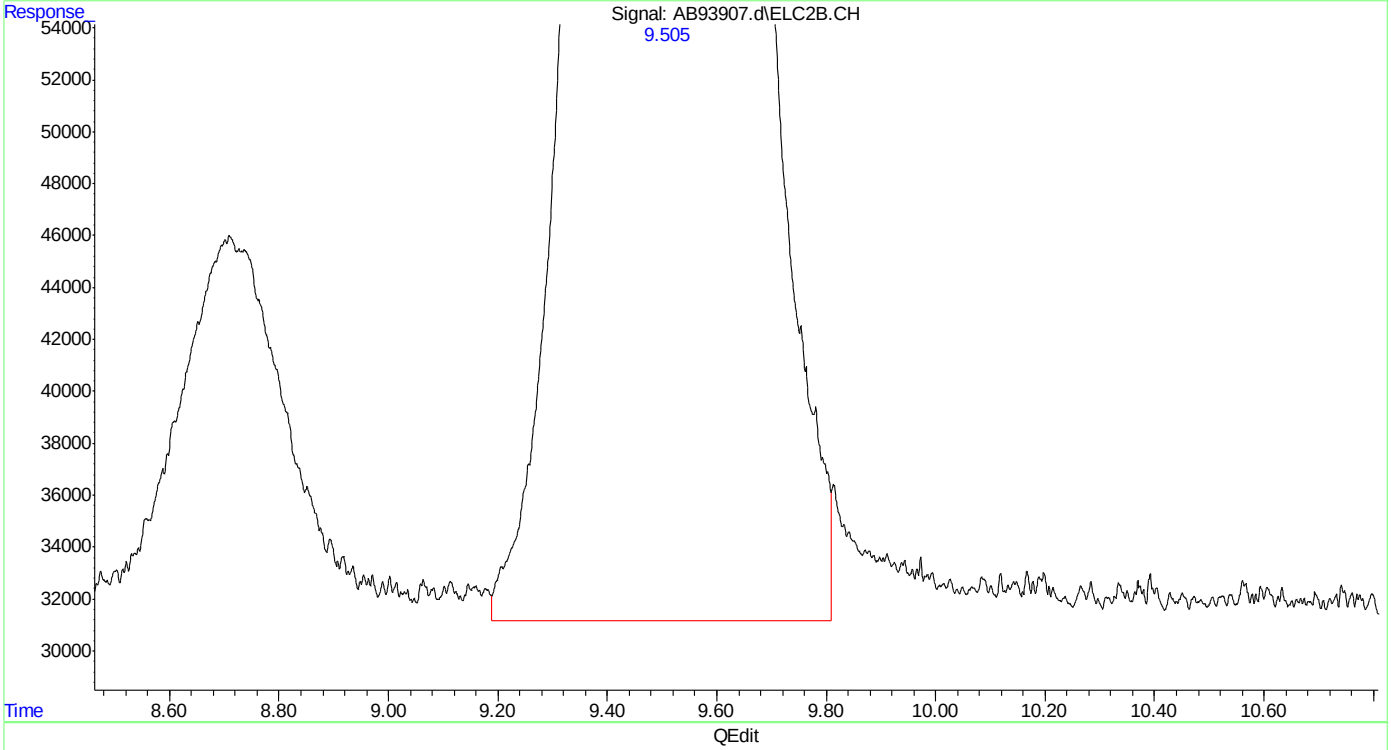
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93907.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 13:56:15
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 14:39:31 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.505min 50.567 ppb
response 25508705

(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 14:40:12 2016

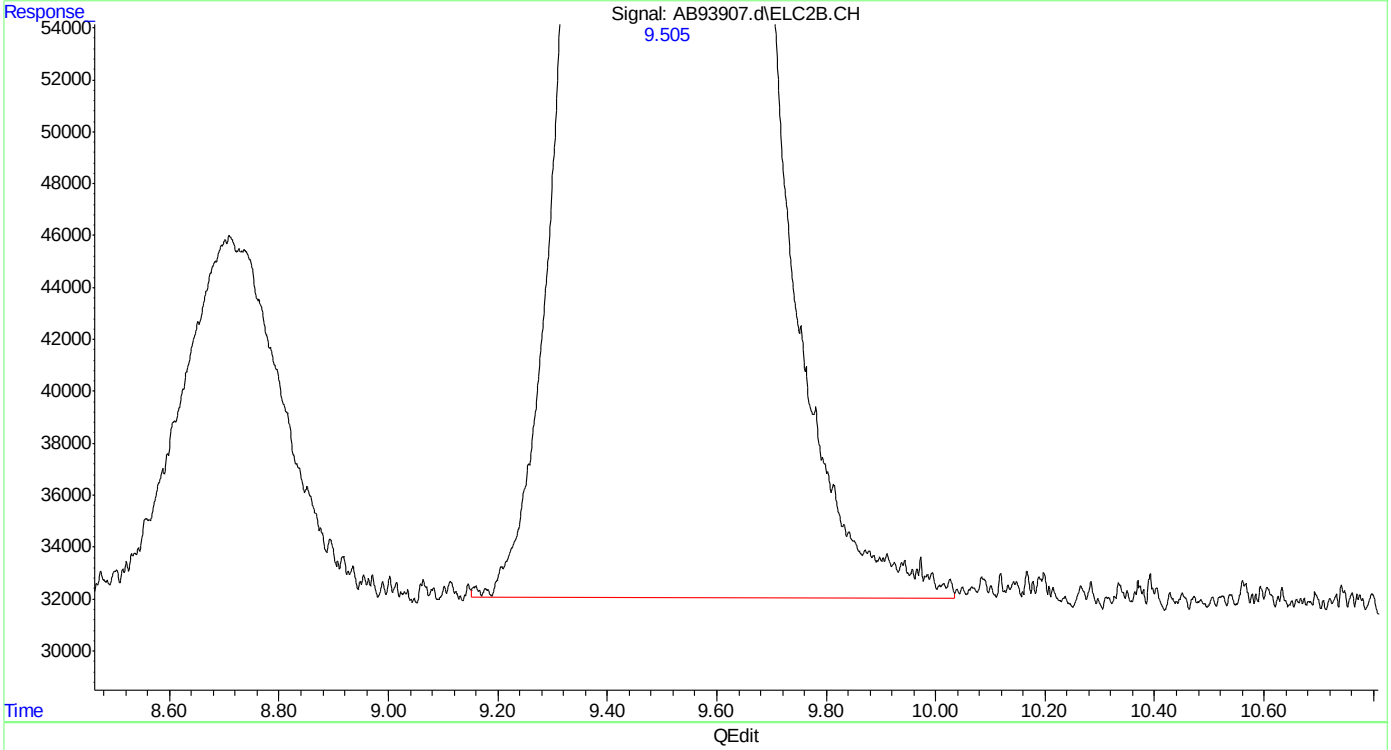
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93907.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 13:56:15
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 14:39:31 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.505min 50.317 ppb m
response 25382716

(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 14:40:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93907.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 13:56:15
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 14:39:31 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(24) naphthalene #2
28.032min 47.579 ppb
response 34395465

(+) = Expected Retention Time
ab160429vph.M Fri Apr 29 14:59:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93907.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 13:56:15
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 14:39:31 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(24) naphthalene #2
28.032min 45.531 ppb m
response 32915217

(+) = Expected Retention Time

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/02/16 10:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93914.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 18:25:34
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:55:28 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.139	21462567	48.763	ppb	
Spiked Amount 50.000		Recovery =	97.53%		
6) s 2,3,4-trifluorotoluene	20.194	19342029	47.181	ppb	
Spiked Amount 50.000		Recovery =	94.36%		
16) s fluorobenzene #2	15.136	41877548	49.721	ppb	
Spiked Amount 50.000		Recovery =	99.44%		
18) s 2,3,4-trifluorotoluen...	20.191	21850509	46.801	ppb	
Spiked Amount 50.000		Recovery =	93.60%		
Target Compounds					
1) h rt5.5-7	6.420	16327436	40.665	ppb	m
2) h rt7/10	8.720	19087956	47.541	ppb	m
3) h rt10/13	13.870	22315987	55.580	ppb	m
8) h rt20/25	21.870	26899293	42.936	ppb	m
10) h decane	24.200	26827827	42.822	ppb	
11) h butylcyclohexane	25.240	29507126	47.098	ppb	
14) mtbe #2	9.502	26075304	51.690	ppb	m
15) benzene #2	14.632	64269240	49.375	ppb	
17) toluene #2	19.093	55268107	48.342	ppb	
19) ethylbenzene #2	22.190	45255695	48.880	ppb	
20) m,p-xylene #2	22.333	108703651	102.481	ppb	
21) o-xylene #2	23.139	45443201	48.647	ppb	
22) t 1,3,5-trimethylbenzen...	24.571	59350467	45.427	ppb	
23) 1,2,4-trimethylbenzen...	25.089	45670220	47.720	ppb	
24) naphthalene #2	28.032	34141740	47.228	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45668813	47.669	ppb	m

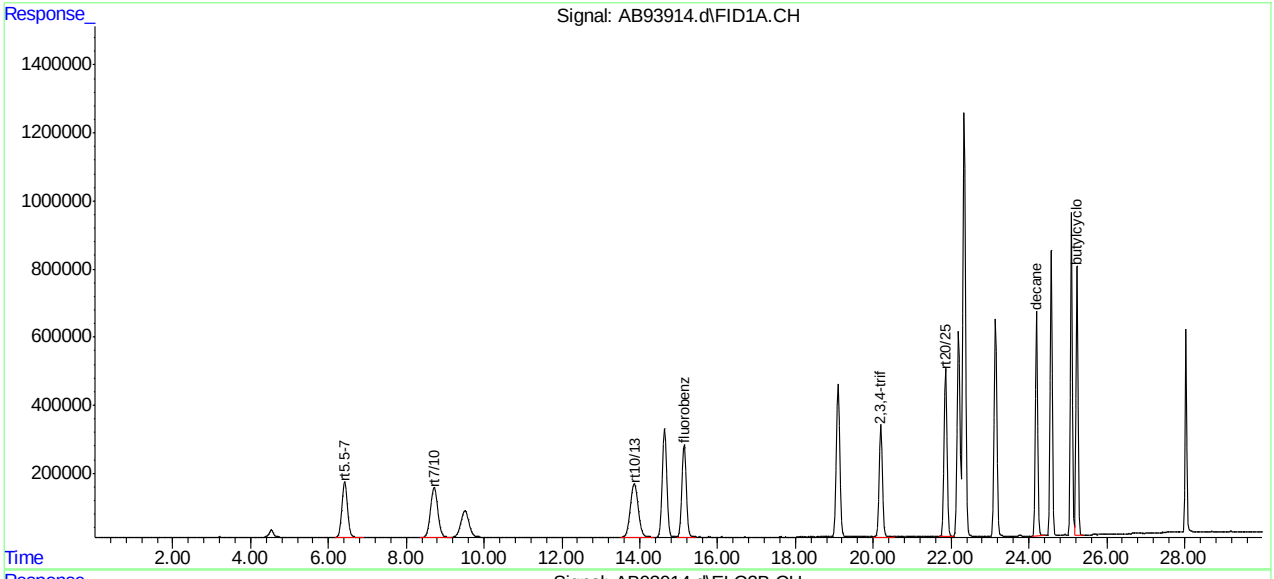
(f)=RT Delta > 1/2 Window (m)=manual int.

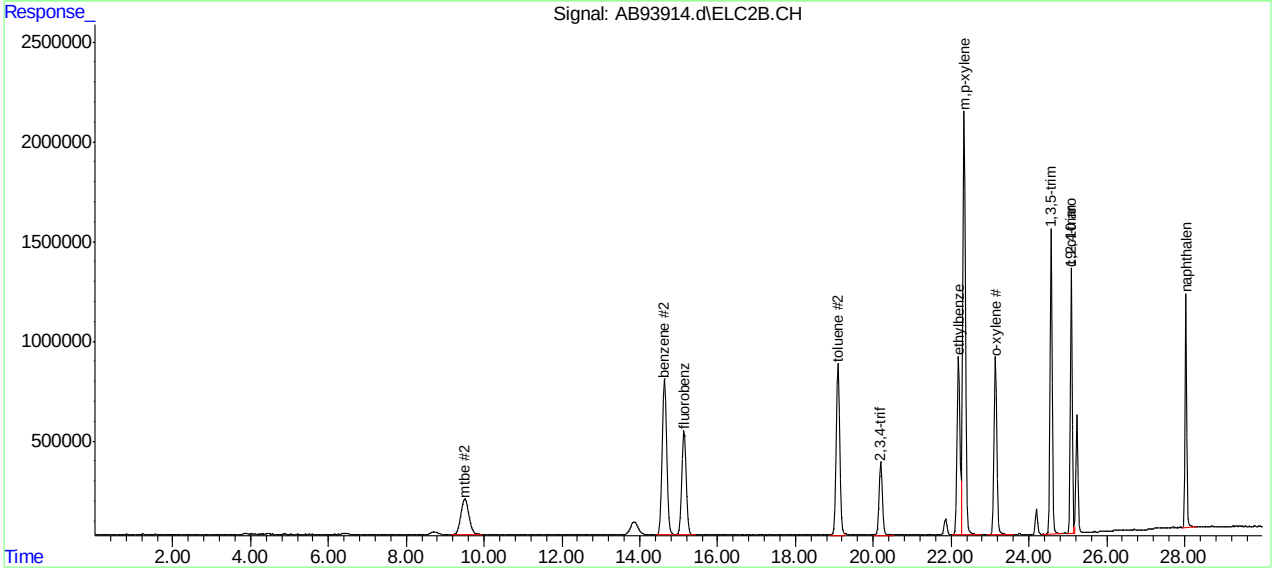
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93914.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 18:25:34
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

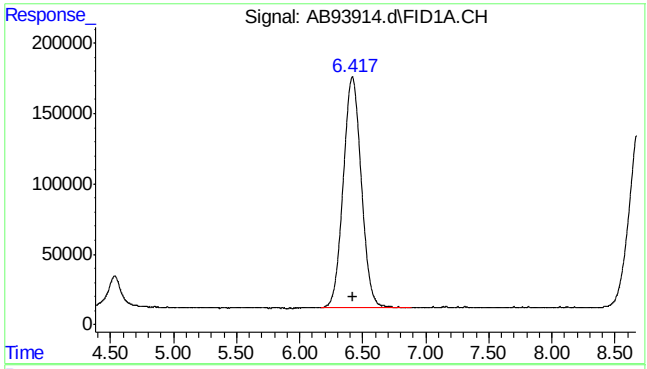
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:55:28 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



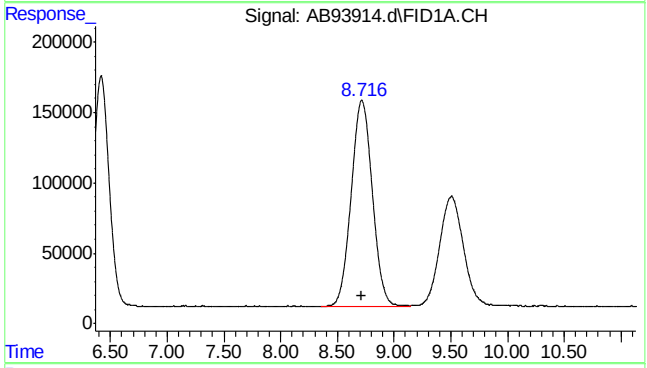


SGS ACCUTEST MC45611



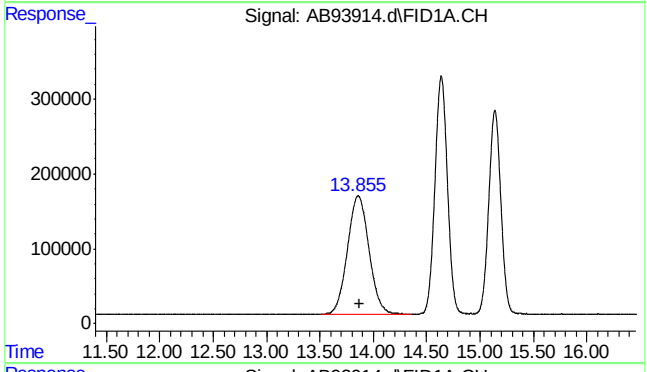
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16327436
Conc: 40.67 ppb m



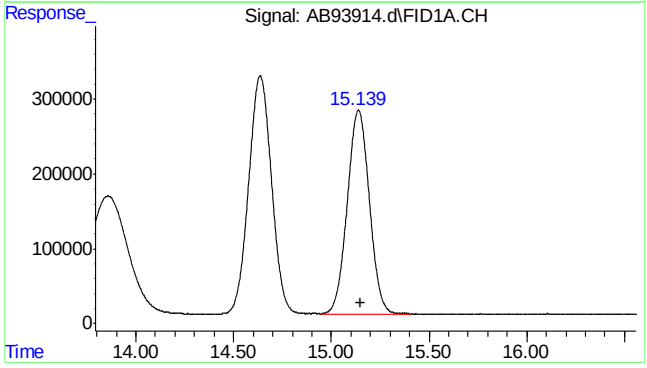
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 19087956
Conc: 47.54 ppb m



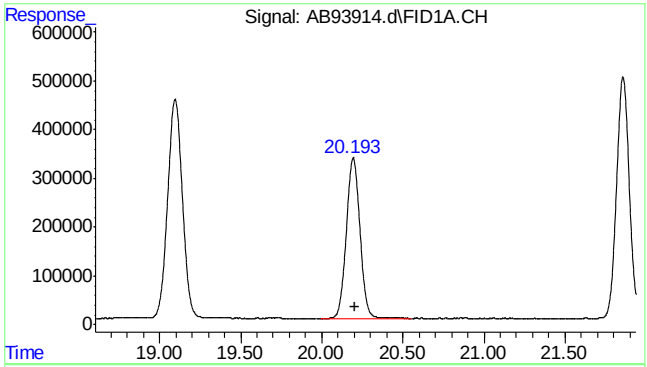
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 22315987
Conc: 55.58 ppb m



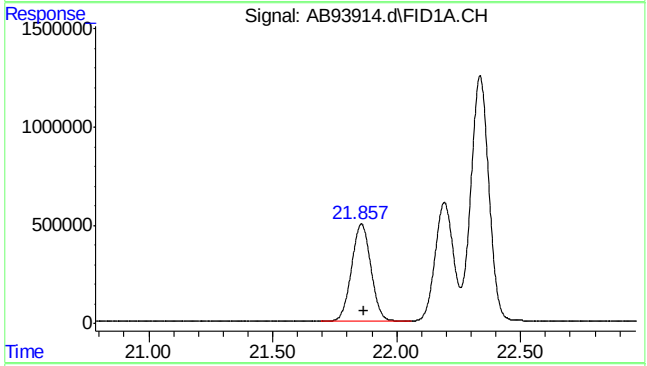
#4 fluorobenzene

R.T.: 15.139 min
Delta R.T.: -0.012 min
Response: 21462567
Conc: 48.76 ppb



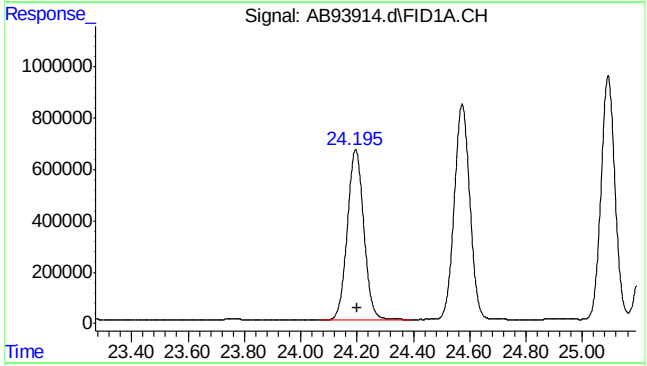
#6 2,3,4-trifluorotoluene

R.T.: 20.194 min
Delta R.T.: -0.012 min
Response: 19342029
Conc: 47.18 ppb



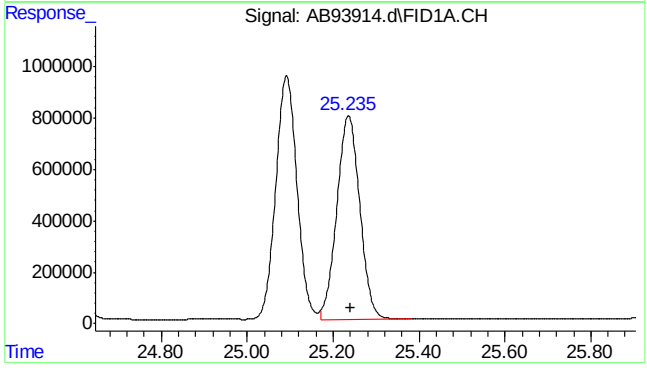
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26899293
Conc: 42.94 ppb m



#10 decane

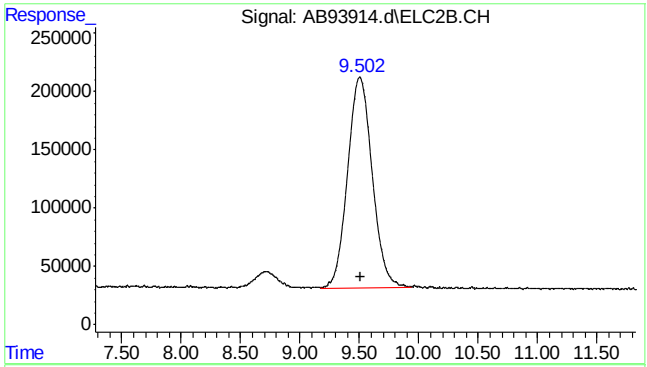
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26827827
Conc: 42.82 ppb



#11 butylcyclohexane

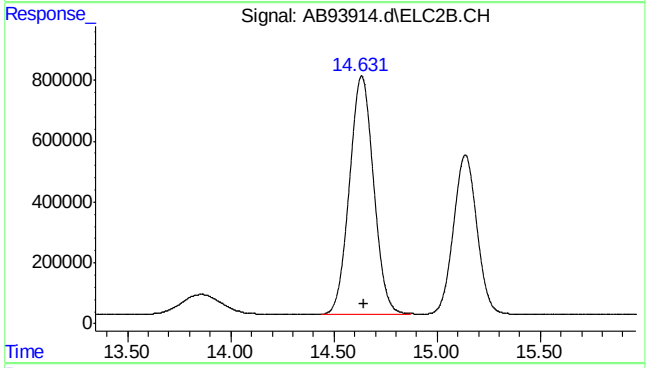
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29507126
Conc: 47.10 ppb

SGS ACCUTEST MC45611



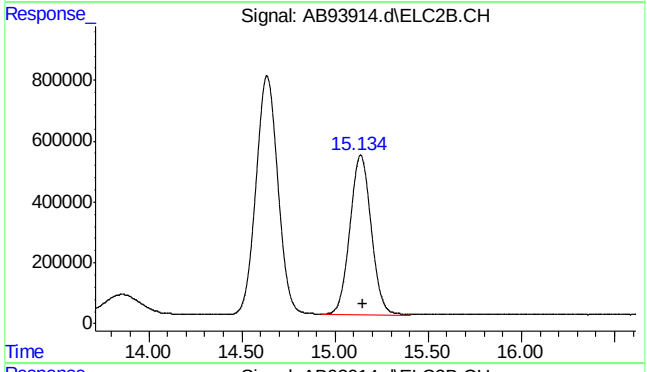
#14 mtbe #2

R.T.: 9.502 min
Delta R.T.: -0.009 min
Response: 26075304
Conc: 51.69 ppb m



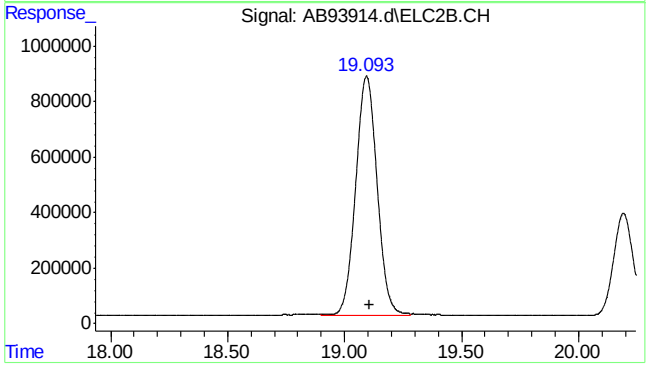
#15 benzene #2

R.T.: 14.632 min
Delta R.T.: -0.014 min
Response: 64269240
Conc: 49.38 ppb



#16 fluorobenzene #2

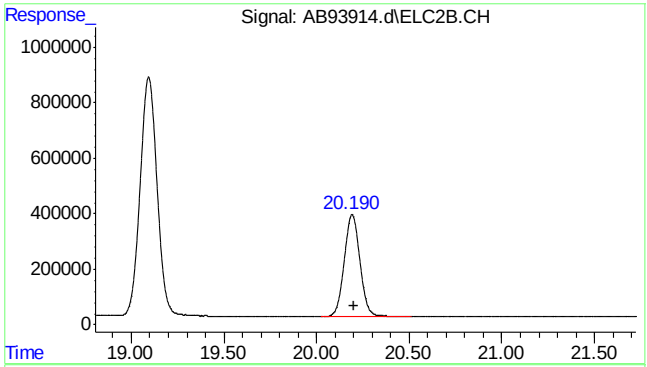
R.T.: 15.136 min
Delta R.T.: -0.012 min
Response: 41877548
Conc: 49.72 ppb



#17 toluene #2

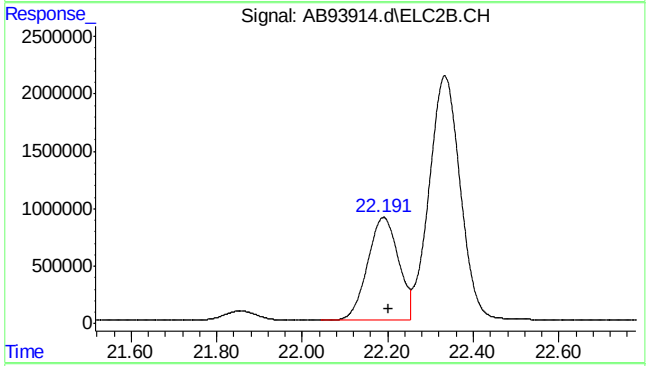
R.T.: 19.093 min
Delta R.T.: -0.013 min
Response: 55268107
Conc: 48.34 ppb

SGS ACCUTEST MC45611



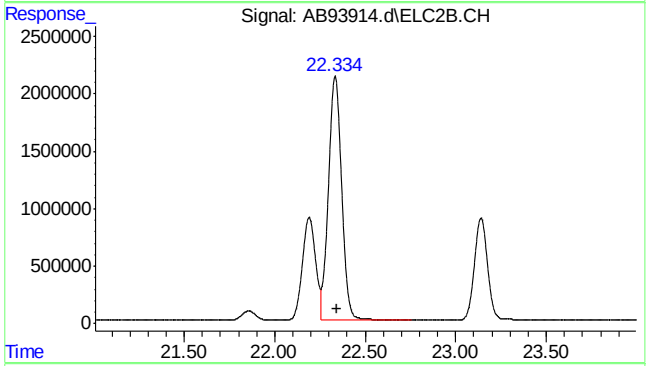
#18 2,3,4-trifluorotoluene #2

R.T.: 20.191 min
Delta R.T.: -0.012 min
Response: 21850509
Conc: 46.80 ppb



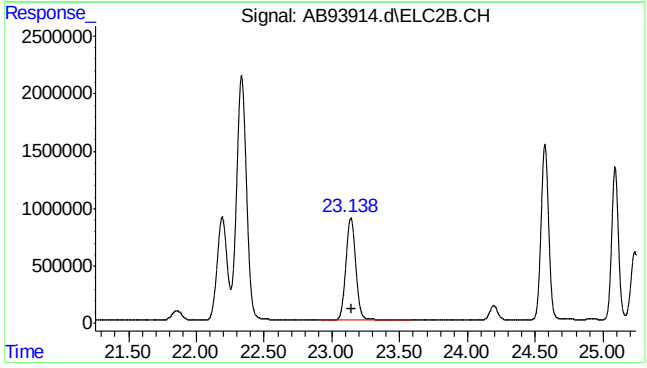
#19 ethylbenzene #2

R.T.: 22.190 min
Delta R.T.: -0.011 min
Response: 45255695
Conc: 48.88 ppb



#20 m,p-xylene #2

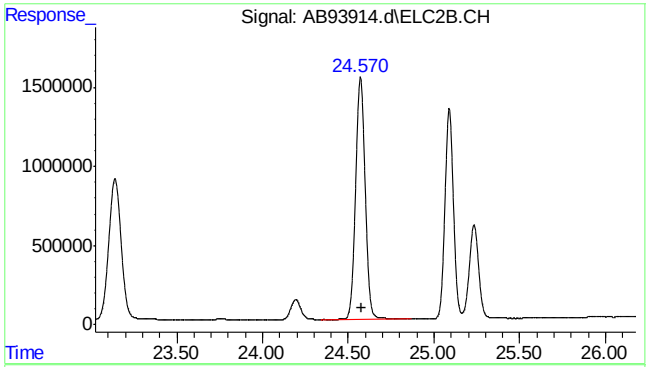
R.T.: 22.333 min
Delta R.T.: -0.011 min
Response: 108703651
Conc: 102.48 ppb



#21 o-xylene #2

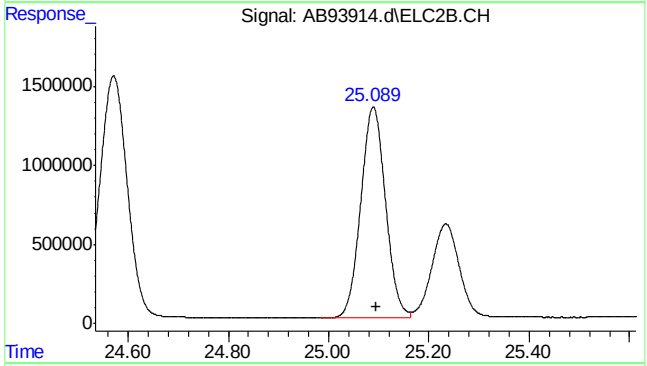
R.T.: 23.139 min
Delta R.T.: -0.010 min
Response: 45443201
Conc: 48.65 ppb

SGS ACCUTEST MC45611



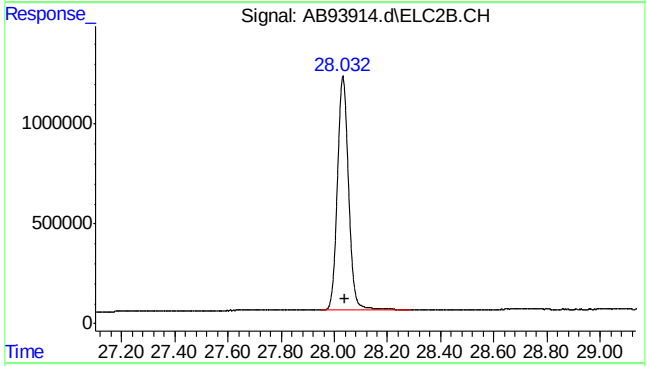
#22 1,3,5-trimethylbenzene #2

R.T.: 24.571 min
Delta R.T.: -0.008 min
Response: 59350467
Conc: 45.43 ppb



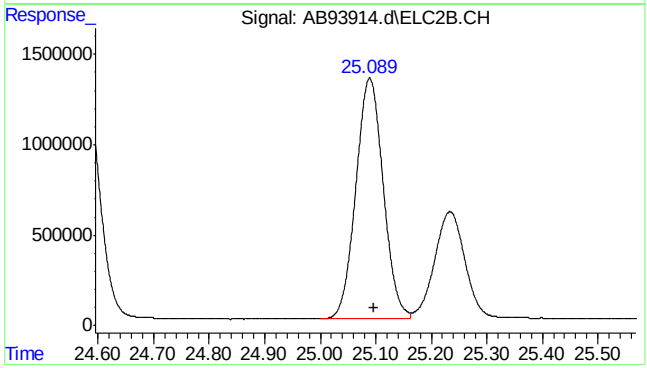
#23 1,2,4-trimethylbenzene #2

R.T.: 25.089 min
Delta R.T.: -0.007 min
Response: 45670220
Conc: 47.72 ppb



#24 naphthalene #2

R.T.: 28.032 min
Delta R.T.: -0.006 min
Response: 34141740
Conc: 47.23 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45668813
Conc: 47.67 ppb m

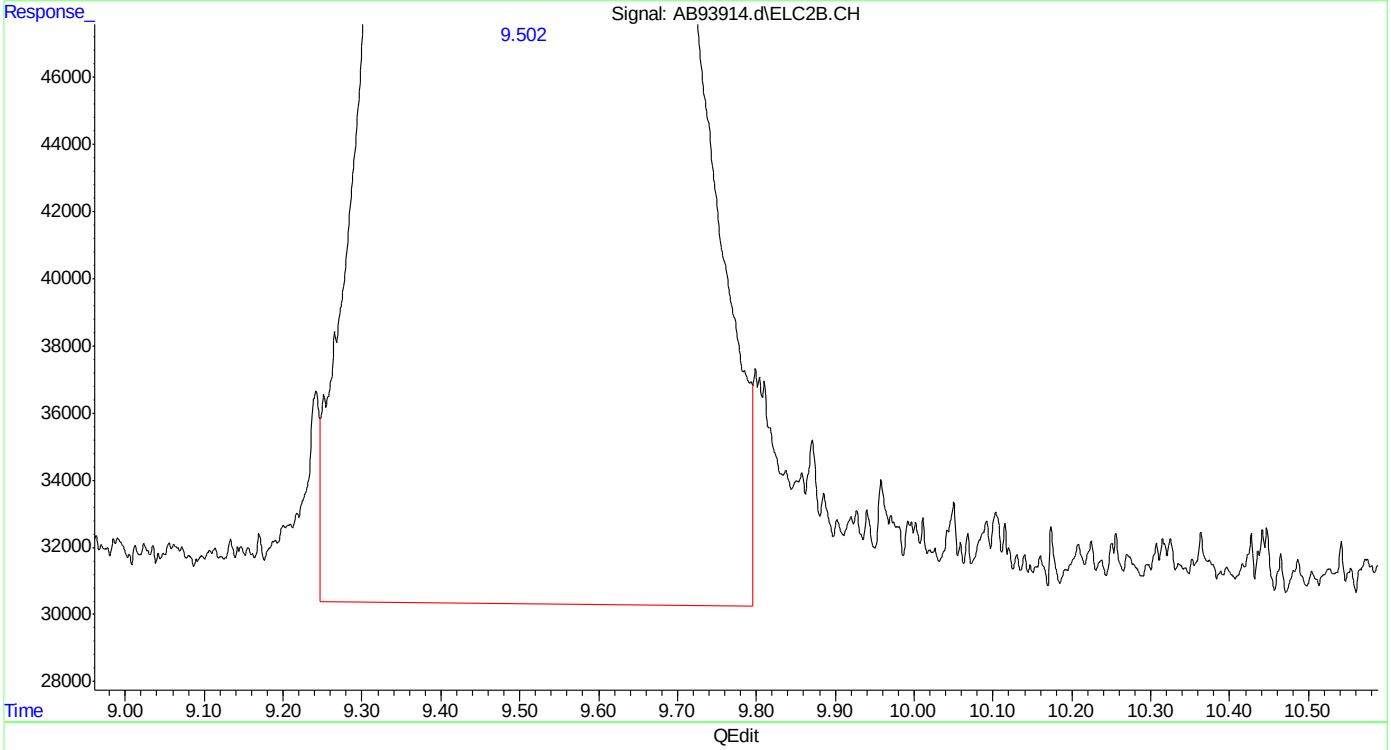
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93914.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 18:25:34
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:47 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.501min 52.021 ppb
response 26242145

(+) = Expected Retention Time
ab160429vph.M Mon May 02 06:55:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93914.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 18:25:34
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:47 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(14) mtbe #2
9.502min 51.690 ppb m
response 26075304

(+) = Expected Retention Time

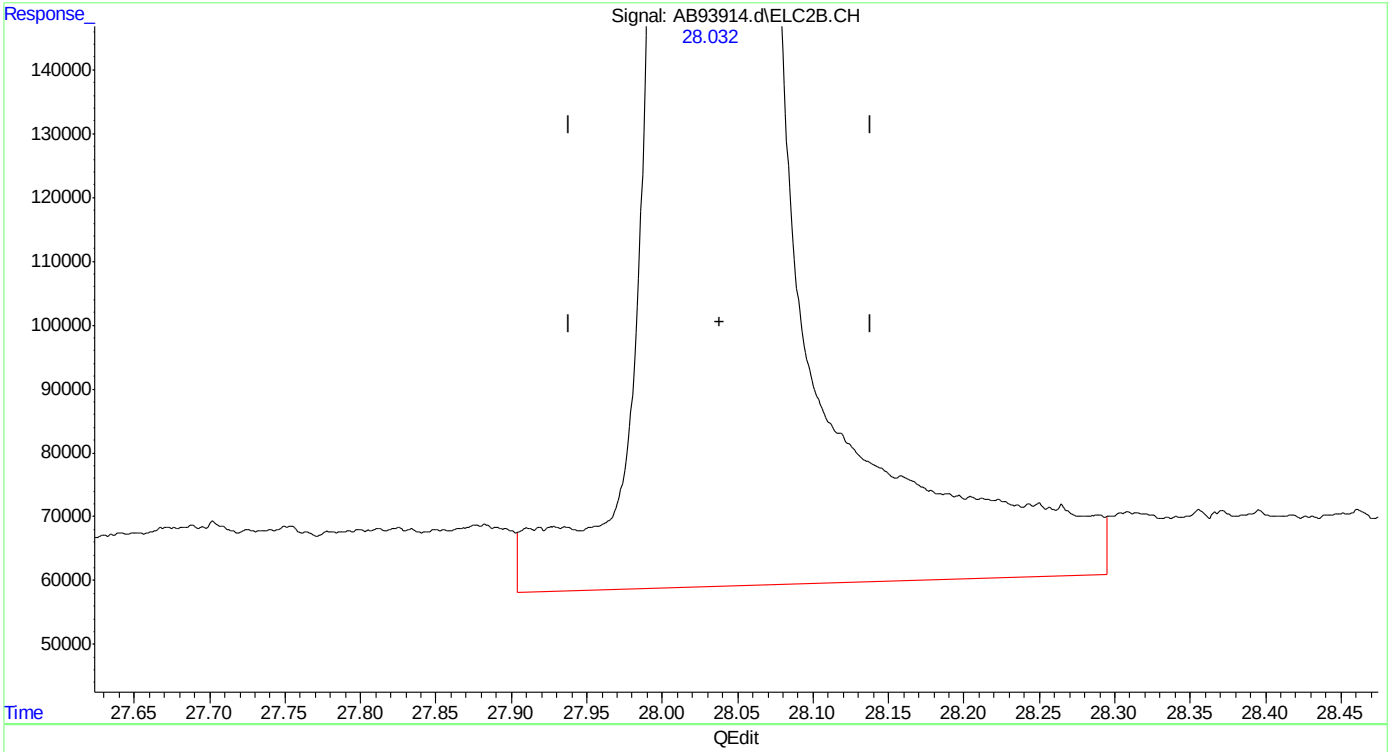
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93914.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 18:25:34
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:47 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.032min 50.126 ppb
response 36236835

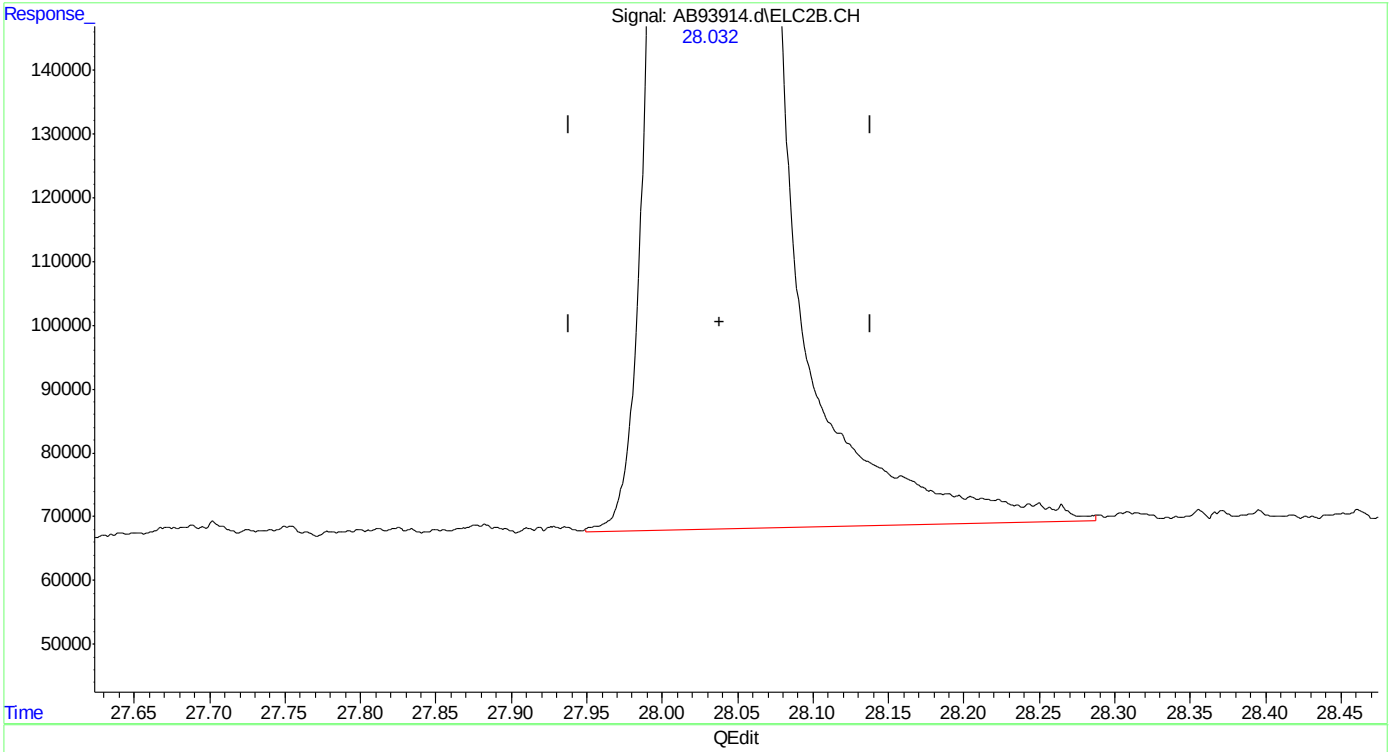
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160429\
Data File : AB93914.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29-Apr-16, 18:25:34
Operator : tonyf
Sample : cc5058-50
Misc : gc26197,gab5159,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 06:50:47 2016
Quant Method : C:\msdchem\1\methods\ab160429vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.032min 47.228 ppb m
response 34141740

(+) = Expected Retention Time
ab160429vph.M Mon May 02 06:55:22 2016

SGS ACCUTEST MC45611

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:18:58
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:51:36 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.137	21444522	48.722	ppb	
Spiked Amount 50.000		Recovery =	97.44%		
6) s 2,3,4-trifluorotoluene	20.192	19359377	47.224	ppb	m
Spiked Amount 50.000		Recovery =	94.45%		
16) s fluorobenzene #2	15.134	41733095	49.550	ppb	
Spiked Amount 50.000		Recovery =	99.10%		
18) s 2,3,4-trifluorotoluen...	20.191	21774567	46.639	ppb	
Spiked Amount 50.000		Recovery =	93.28%		
Target Compounds					
1) h rt5.5-7	6.420	15790298	39.327	ppb	m
2) h rt7/10	8.720	18650571	46.451	ppb	m
3) h rt10/13	13.870	21624695	53.859	ppb	m
8) h rt20/25	21.870	26384763	42.114	ppb	m
10) h decane	24.200	26285017	41.955	ppb	
11) h butylcyclohexane	25.240	29015566	46.313	ppb	
14) mtbe #2	9.503	25334702	50.222	ppb	m
15) benzene #2	14.631	63839112	49.045	ppb	
17) toluene #2	19.092	55018744	48.123	ppb	
19) ethylbenzene #2	22.190	44861857	48.455	ppb	
20) m,p-xylene #2	22.333	107674411	101.511	ppb	
21) o-xylene #2	23.139	45247758	48.438	ppb	
22) t 1,3,5-trimethylbenzen...	24.571	58505272	44.780	ppb	
23) 1,2,4-trimethylbenzen...	25.089	44993810	47.014	ppb	
24) naphthalene #2	28.033	32275317	44.646	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44977918	46.948	ppb	m

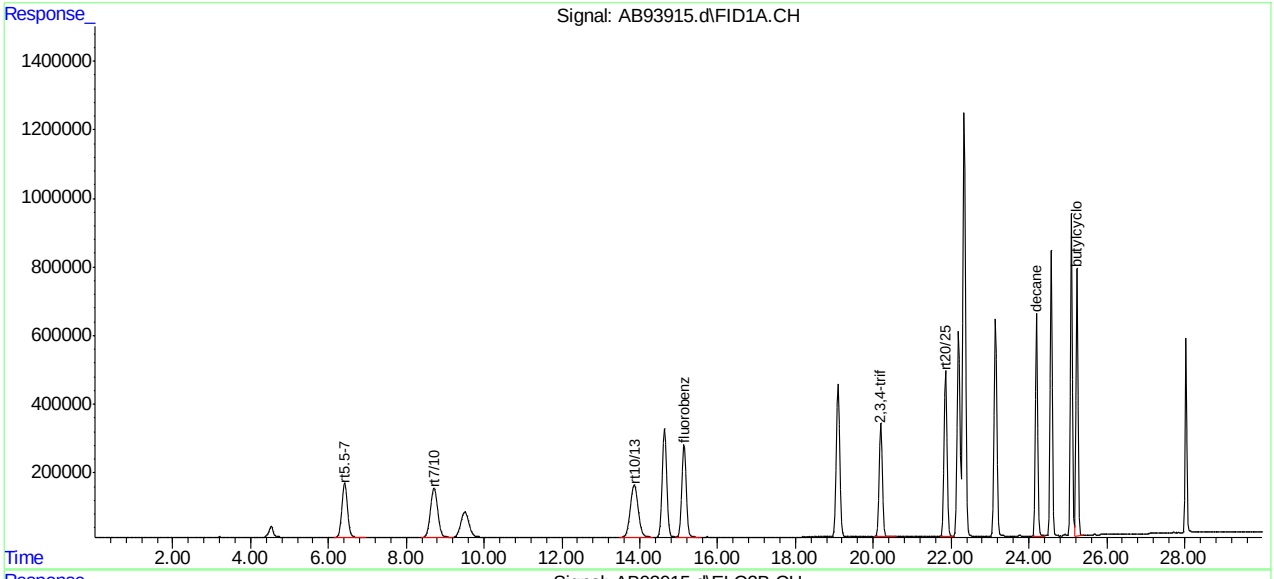
(f)=RT Delta > 1/2 Window (m)=manual int.

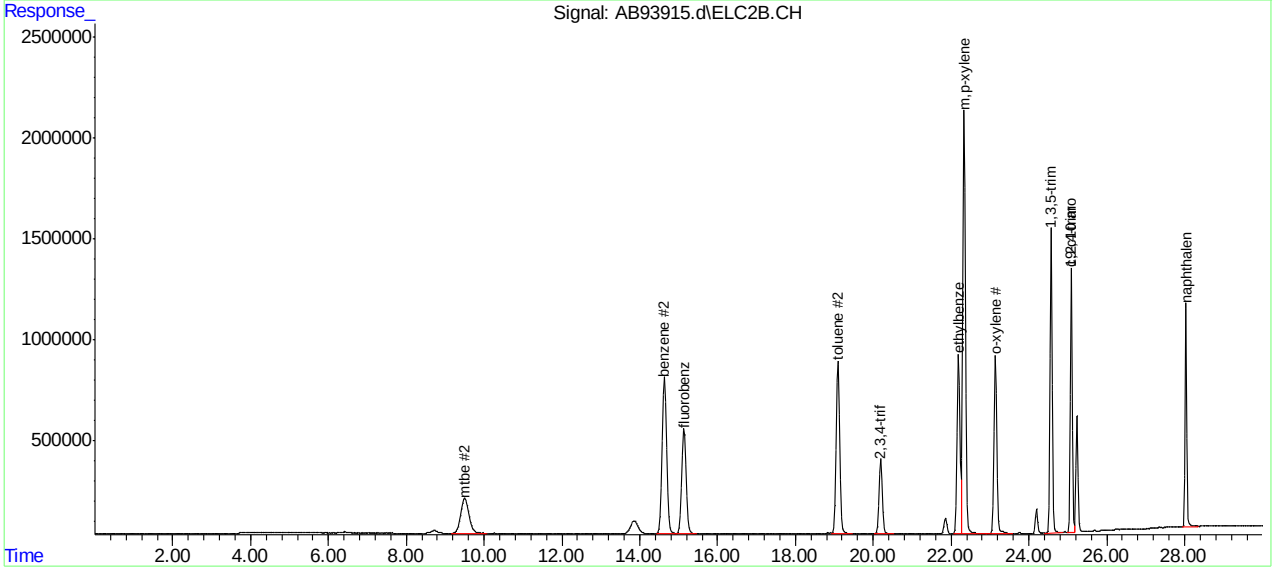
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:18:58
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:51:36 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





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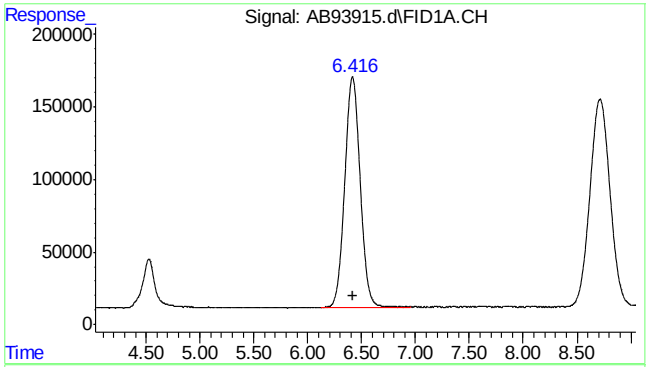
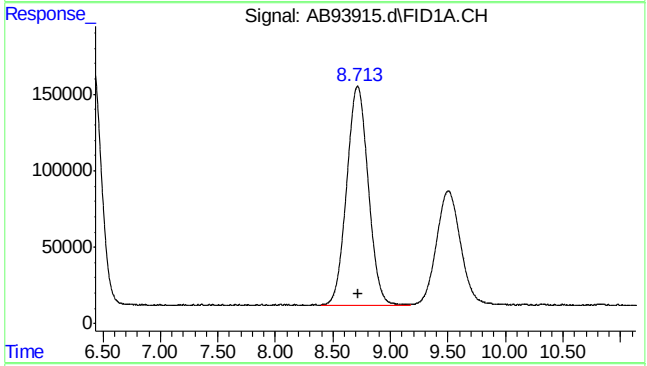


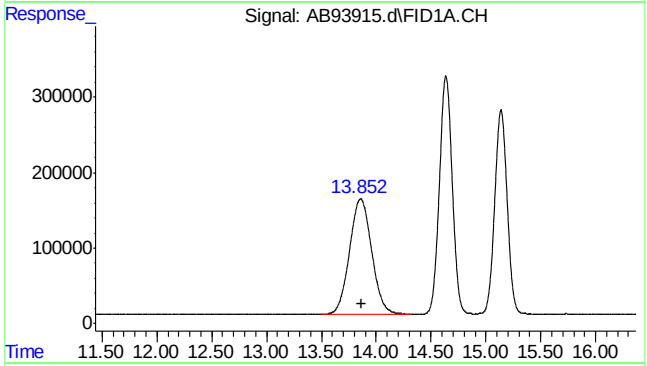
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15790298
Conc: 39.33 ppb m



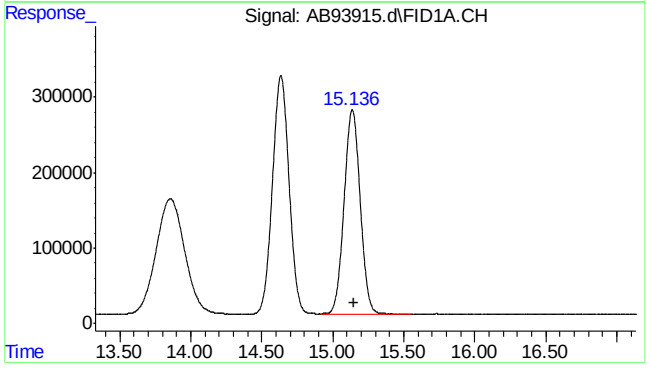
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18650571
Conc: 46.45 ppb m



#3 rt10/13

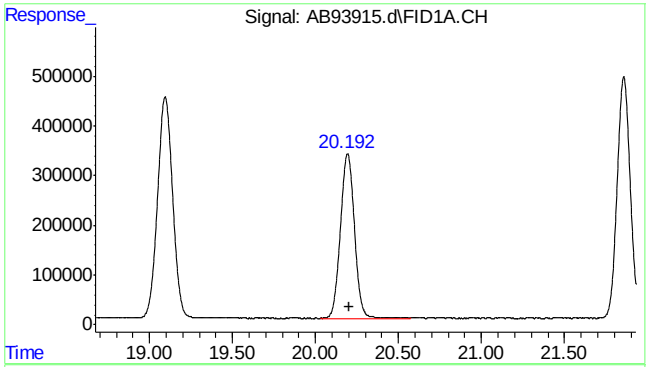
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21624695
Conc: 53.86 ppb m



#4 fluorobenzene

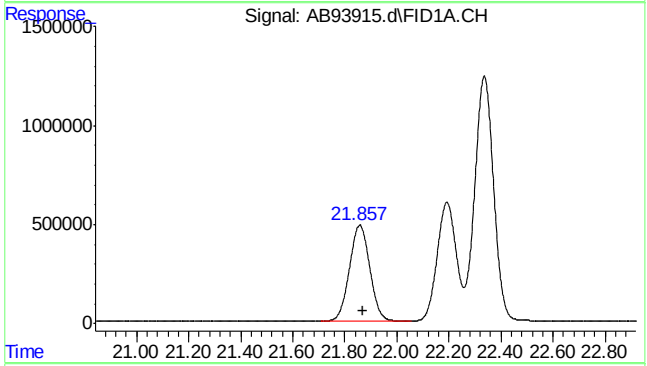
R.T.: 15.137 min
Delta R.T.: -0.014 min
Response: 21444522
Conc: 48.72 ppb

SGS ACCUTEST MC45611



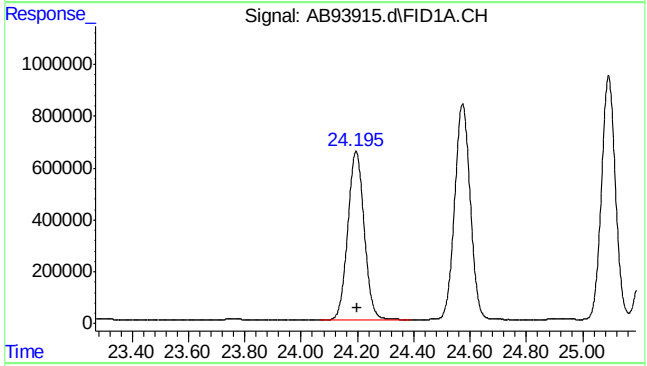
#6 2,3,4-trifluorotoluene

R.T.: 20.192 min
Delta R.T.: -0.013 min
Response: 19359377
Conc: 47.22 ppb m



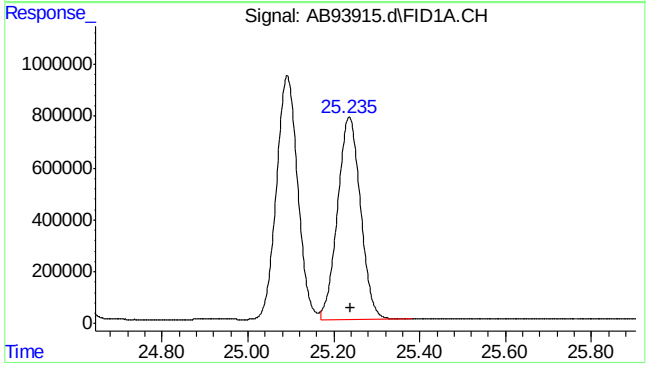
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26384763
Conc: 42.11 ppb m



#10 decane

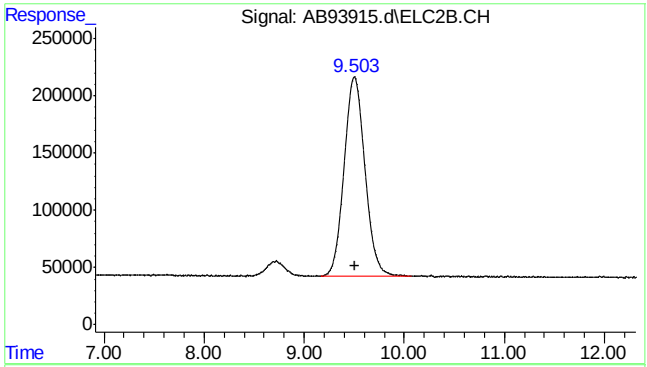
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26285017
Conc: 41.96 ppb



#11 butylcyclohexane

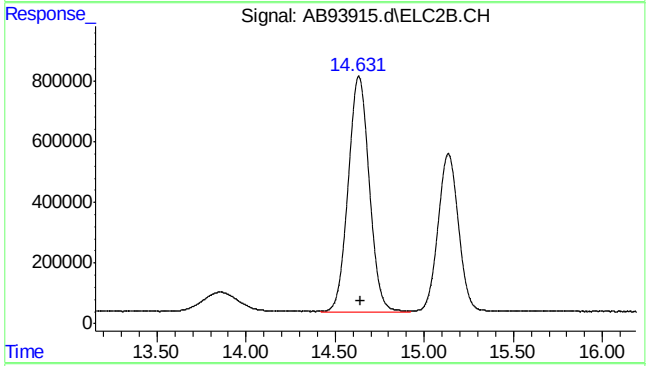
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29015566
Conc: 46.31 ppb

SGS ACCUTEST MC45611



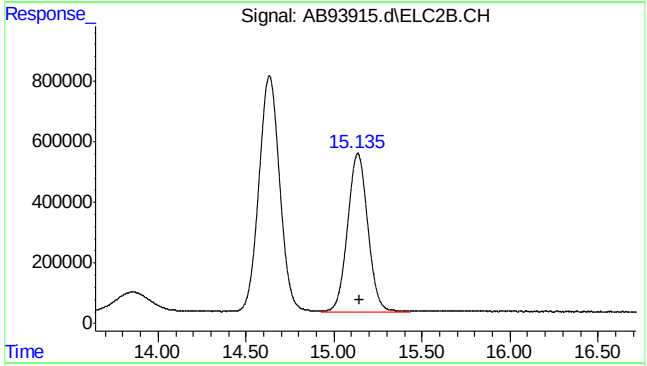
#14 mtbe #2

R.T.: 9.503 min
Delta R.T.: -0.008 min
Response: 25334702
Conc: 50.22 ppb m



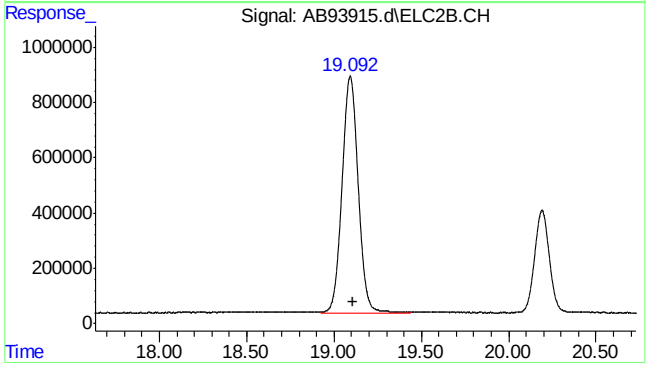
#15 benzene #2

R.T.: 14.631 min
Delta R.T.: -0.015 min
Response: 63839112
Conc: 49.04 ppb



#16 fluorobenzene #2

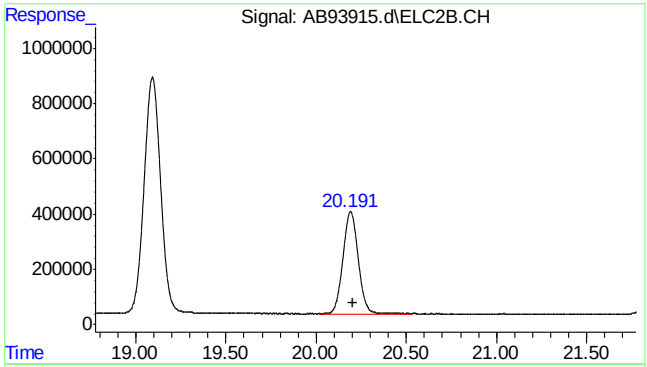
R.T.: 15.134 min
Delta R.T.: -0.014 min
Response: 41733095
Conc: 49.55 ppb



#17 toluene #2

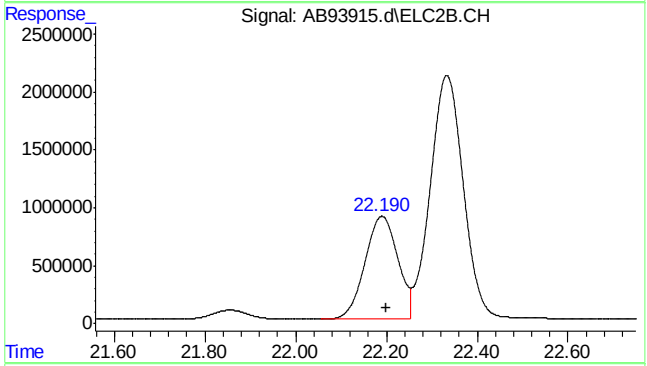
R.T.: 19.092 min
Delta R.T.: -0.014 min
Response: 55018744
Conc: 48.12 ppb

SGS ACCUTEST MC45611



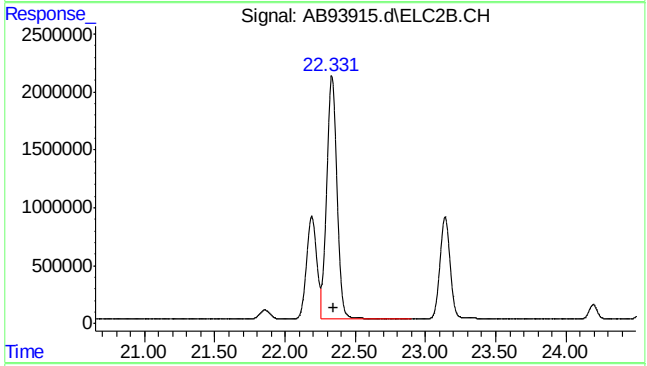
#18 2,3,4-trifluorotoluene #2

R.T.: 20.191 min
Delta R.T.: -0.012 min
Response: 21774567
Conc: 46.64 ppb



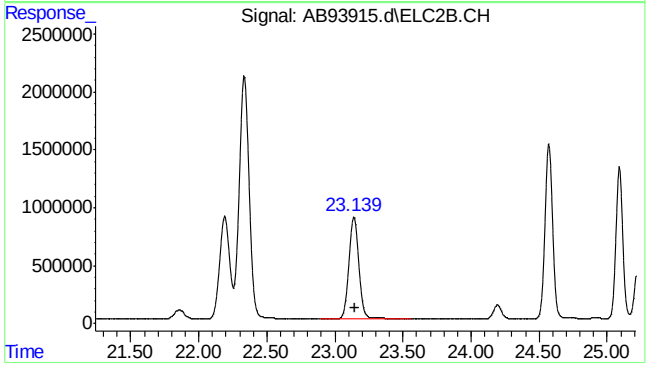
#19 ethylbenzene #2

R.T.: 22.190 min
Delta R.T.: -0.011 min
Response: 44861857
Conc: 48.45 ppb



#20 m,p-xylene #2

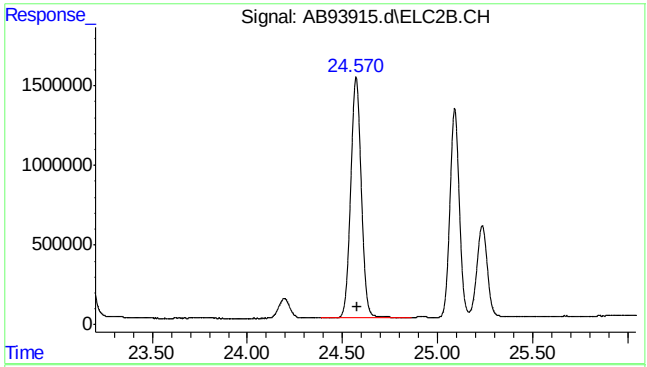
R.T.: 22.333 min
Delta R.T.: -0.011 min
Response: 107674411
Conc: 101.51 ppb



#21 o-xylene #2

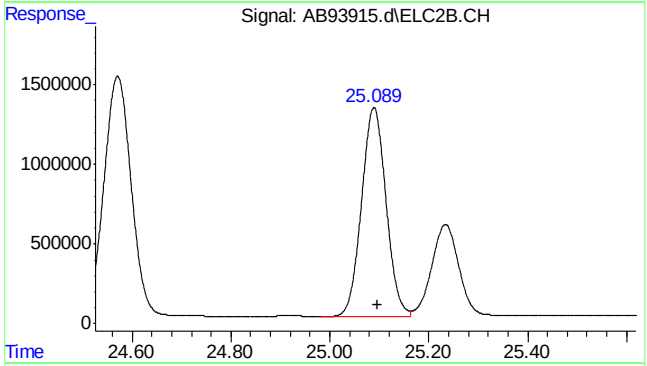
R.T.: 23.139 min
Delta R.T.: -0.011 min
Response: 45247758
Conc: 48.44 ppb

SGS ACCUTEST MC45611



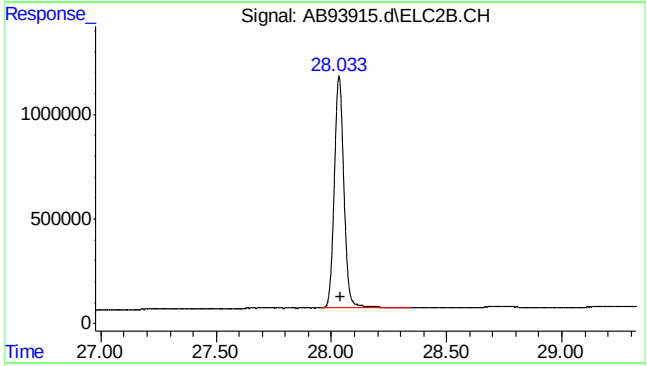
#22 1,3,5-trimethylbenzene #2

R.T.: 24.571 min
Delta R.T.: -0.008 min
Response: 58505272
Conc: 44.78 ppb



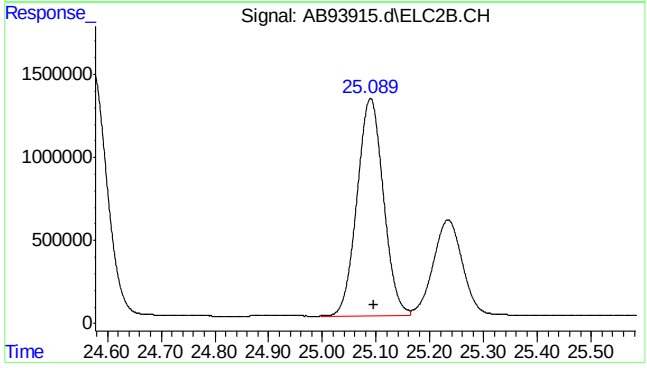
#23 1,2,4-trimethylbenzene #2

R.T.: 25.089 min
Delta R.T.: -0.007 min
Response: 44993810
Conc: 47.01 ppb



#24 naphthalene #2

R.T.: 28.033 min
Delta R.T.: -0.006 min
Response: 32275317
Conc: 44.65 ppb m



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

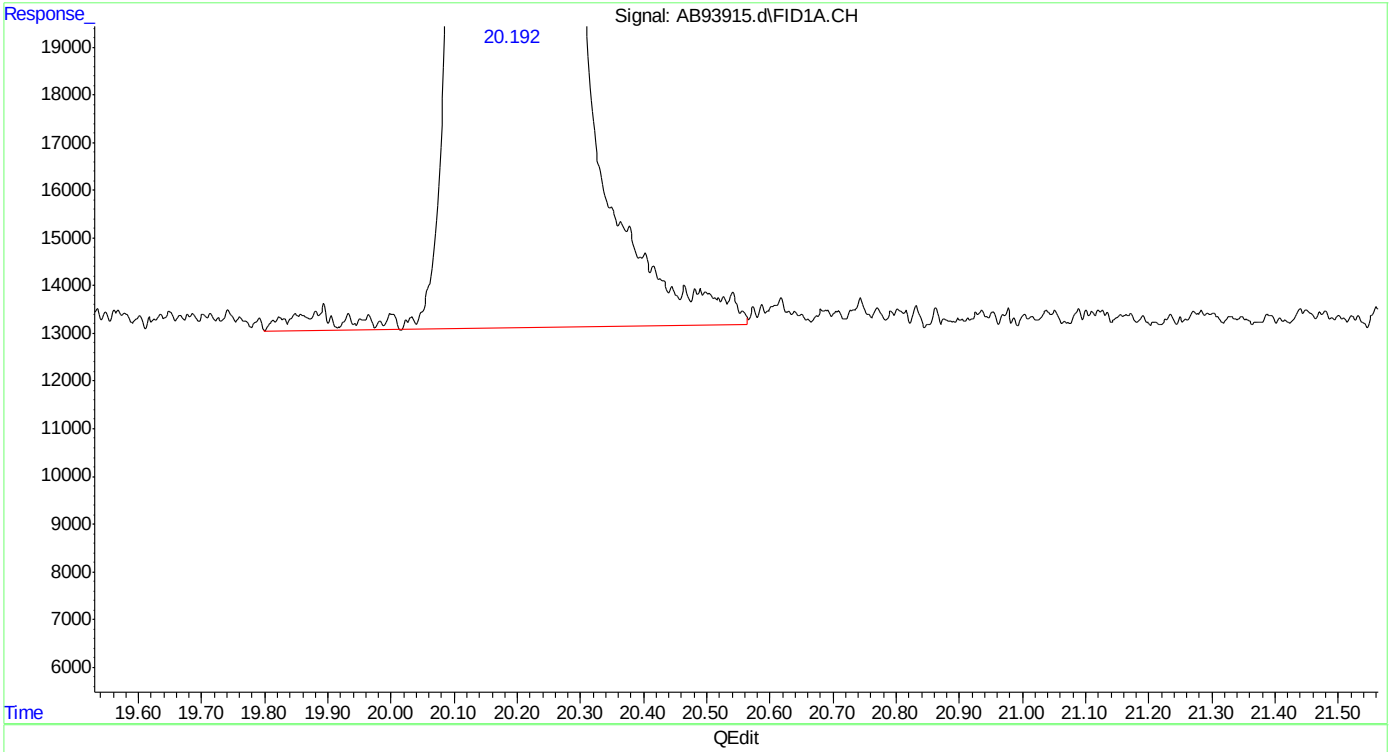
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44977918
Conc: 46.95 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:18:58
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:50:08 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) 2,3,4-trifluorotoluene (s)
20.193min 47.313 ppb
response 19396232

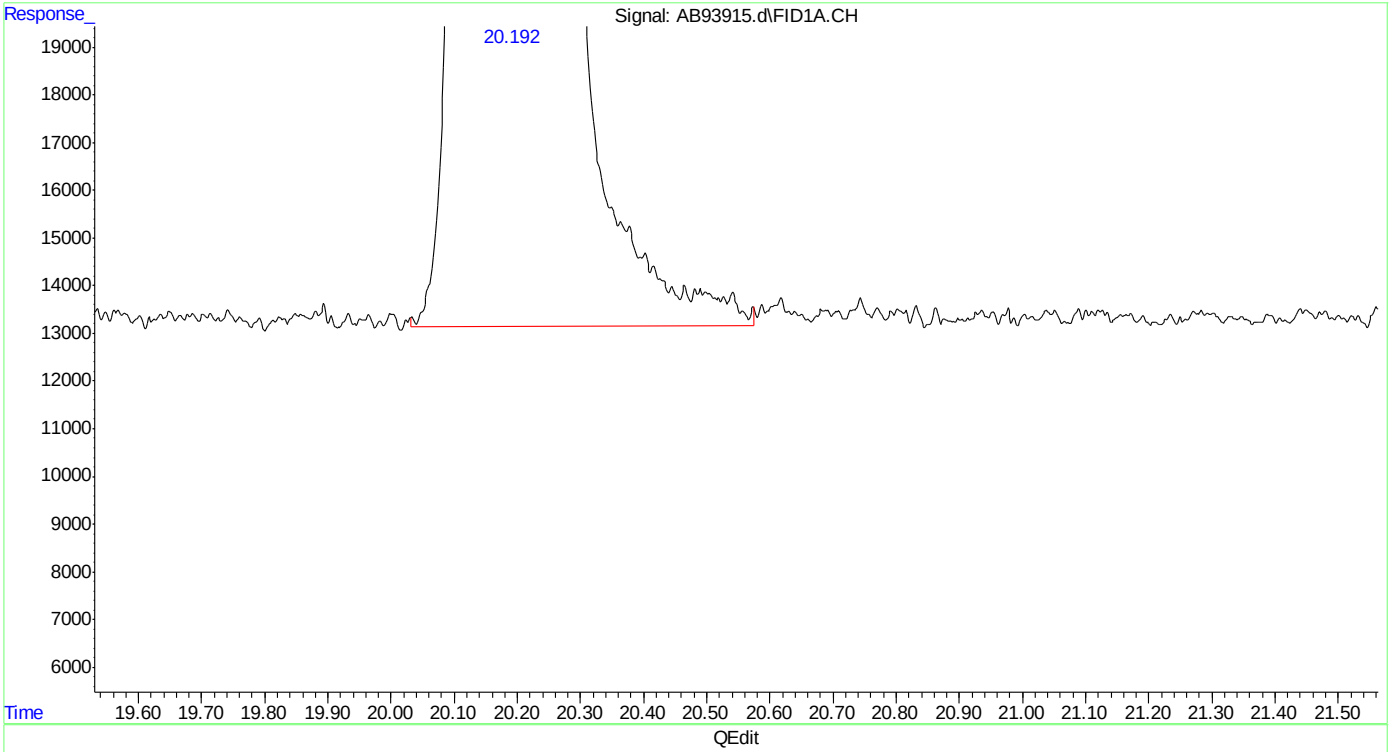
(+) = Expected Retention Time
ab160502vph.M Mon May 02 08:50:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:18:58
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:50:08 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) 2,3,4-trifluorotoluene (s)
20.192min 47.224 ppb m
response 19359377

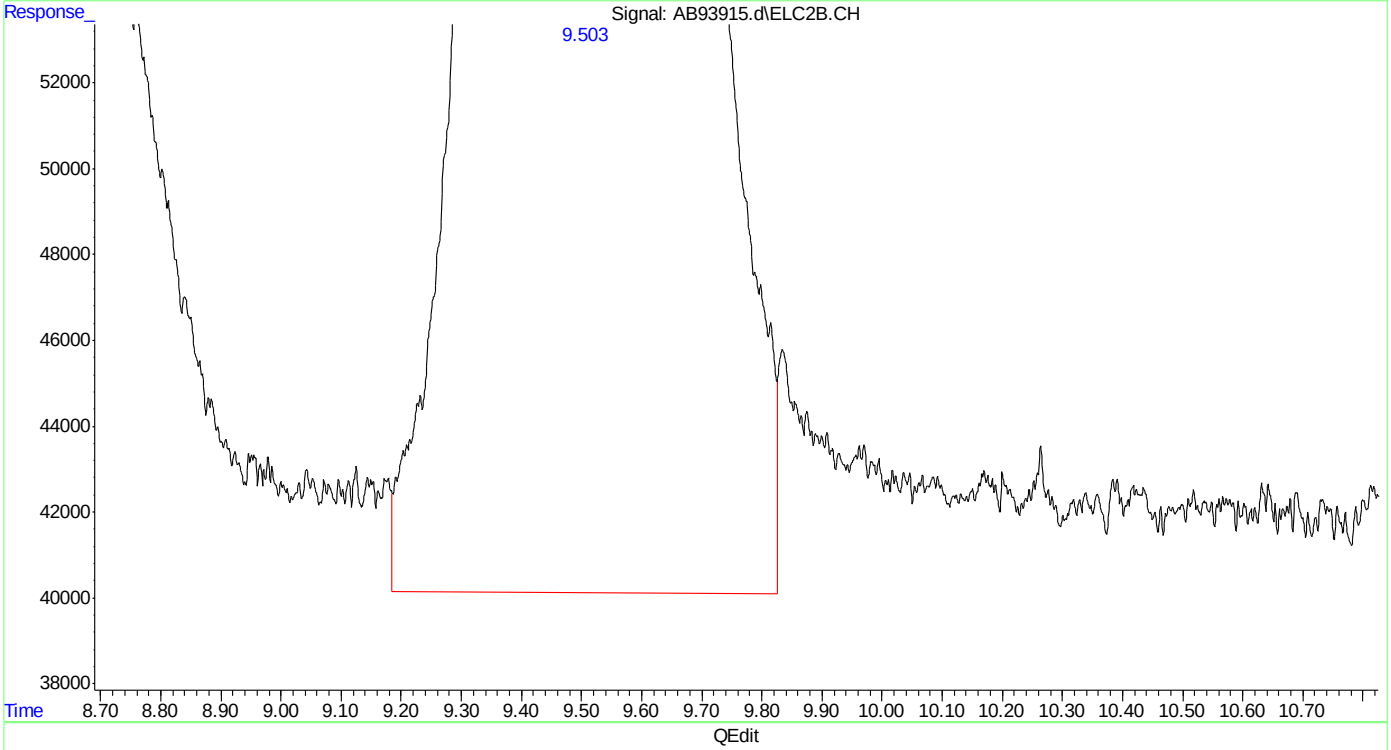
(+) = Expected Retention Time
ab160502vph.M Mon May 02 08:50:55 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:18:58
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:50:08 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.501min 51.400 ppb
response 25928842

(+) = Expected Retention Time
ab160502vph.M Mon May 02 08:51:07 2016

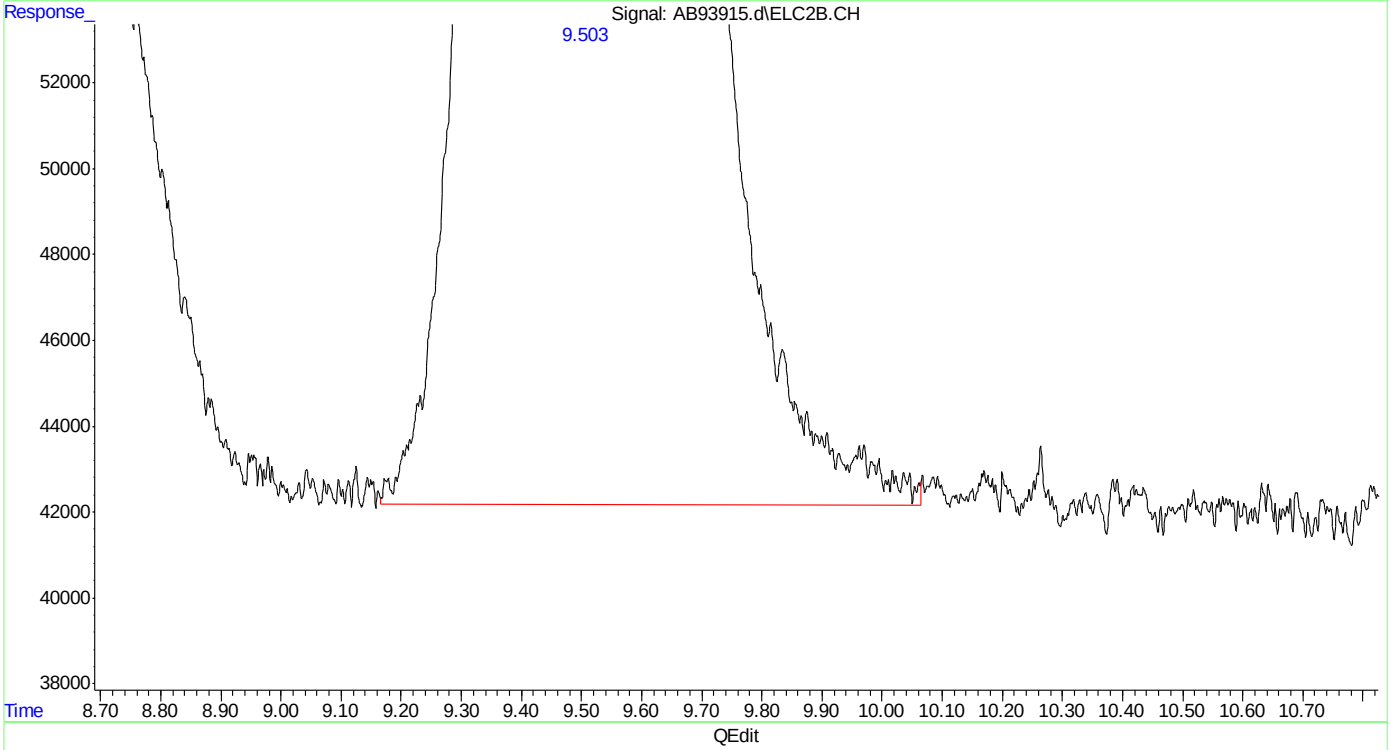
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 08:18:58
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:50:08 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.503min 50.222 ppb m
response 25334702

(+) = Expected Retention Time

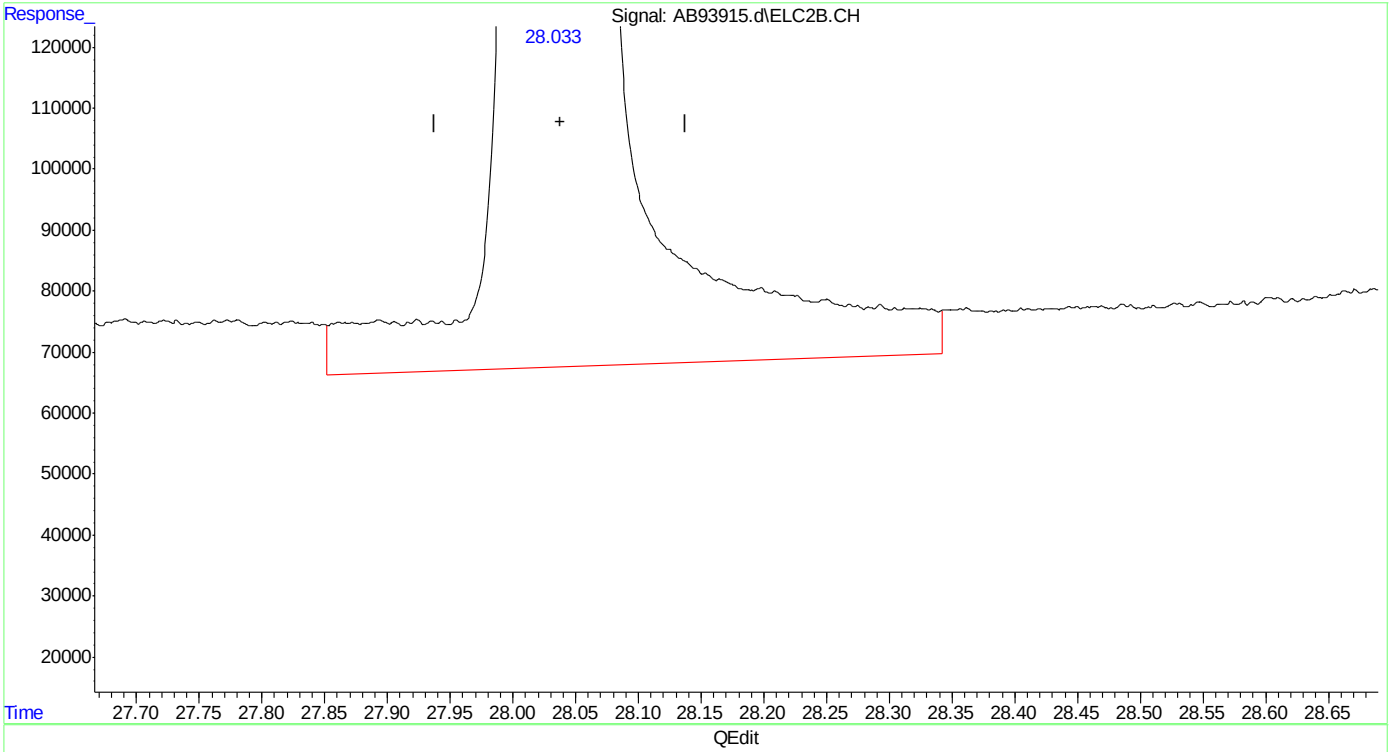
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:18:58
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26201,gab5160,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:50:08 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.033min 47.670 ppb

response 34461044

(+) = Expected Retention Time

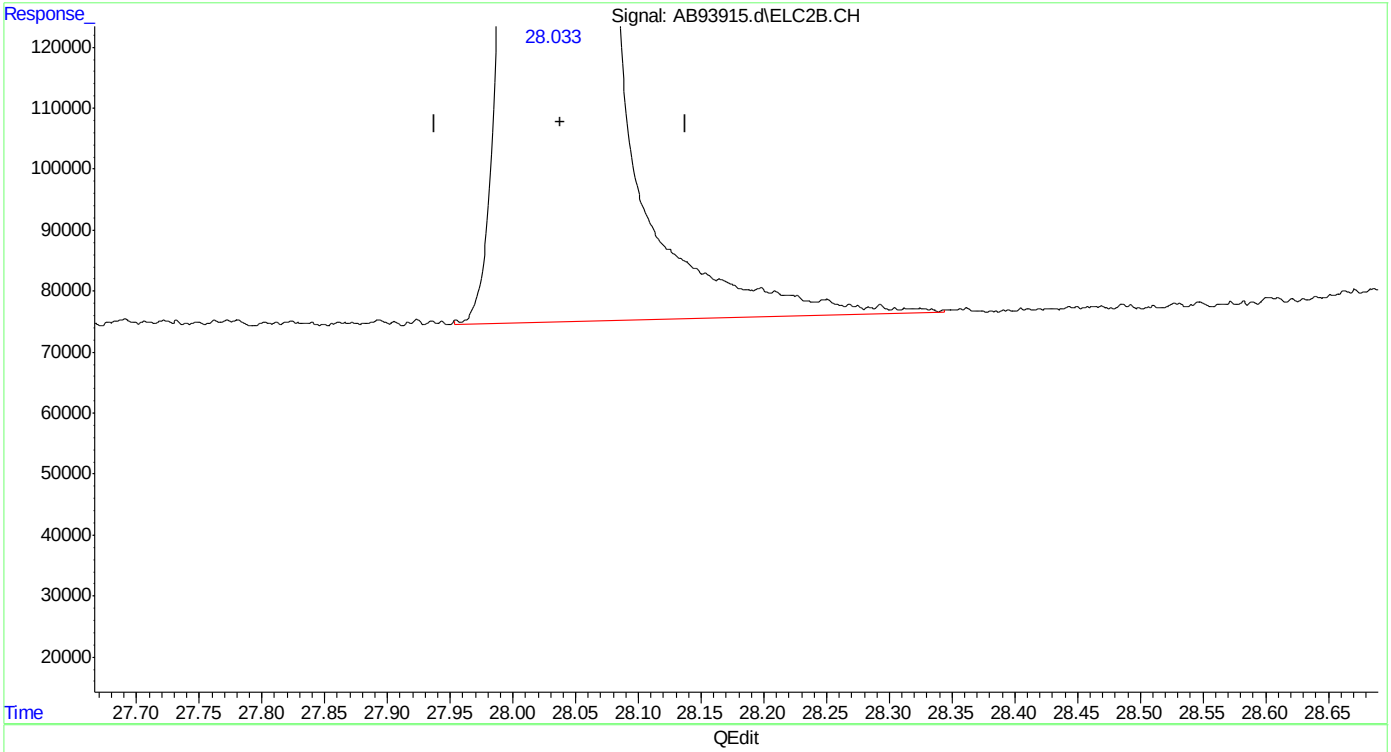
ab160502vph.M Mon May 02 08:51:26 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93915.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02-May-16, 08:18:58
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26201,gab5160,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 02 08:50:08 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.033min 44.646 ppb m

response 32275317

(+) = Expected Retention Time

ab160502vph.M Mon May 02 08:51:31 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93920.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 11:28:44
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 07:21:30 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	15.141	21447173	48.728	ppb	
Spiked Amount 50.000		Recovery =	97.46%		
6) s 2,3,4-trifluorotoluene	20.197	19279870	47.030	ppb	
Spiked Amount 50.000		Recovery =	94.06%		
16) s fluorobenzene #2	15.140	41346028	49.090	ppb	
Spiked Amount 50.000		Recovery =	98.18%		
18) s 2,3,4-trifluorotoluen...	20.194	21547443	46.152	ppb	
Spiked Amount 50.000		Recovery =	92.30%		
Target Compounds					
1) h rt5.5-7	6.420	15843570	39.460	ppb	m
2) h rt7/10	8.720	18693340	46.558	ppb	m
3) h rt10/13	13.870	21663987	53.956	ppb	m
8) h rt20/25	21.870	26780924	42.747	ppb	m
10) h decane	24.200	26905954	42.946	ppb	
11) h butylcyclohexane	25.240	29464705	47.030	ppb	
14) mtbe #2	9.508	25254809	50.064	ppb	m
15) benzene #2	14.634	63327121	48.651	ppb	
17) toluene #2	19.096	54678446	47.826	ppb	
19) ethylbenzene #2	22.193	44823995	48.414	ppb	
20) m,p-xylene #2	22.337	106794614	100.681	ppb	
21) o-xylene #2	23.143	44470064	47.605	ppb	
22) t 1,3,5-trimethylbenzen...	24.574	58541348	44.807	ppb	
23) 1,2,4-trimethylbenzen...	25.092	45076982	47.101	ppb	
24) naphthalene #2	28.035	32155720	44.481	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45089681	47.064	ppb	m

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

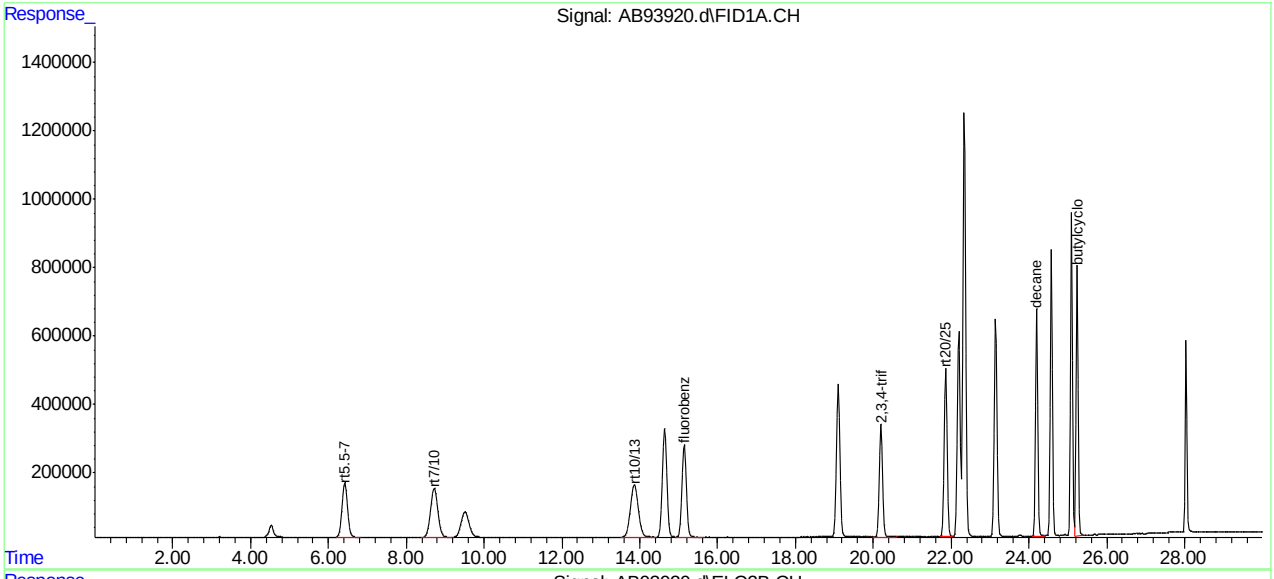
SGS ACCUTEST MC45611

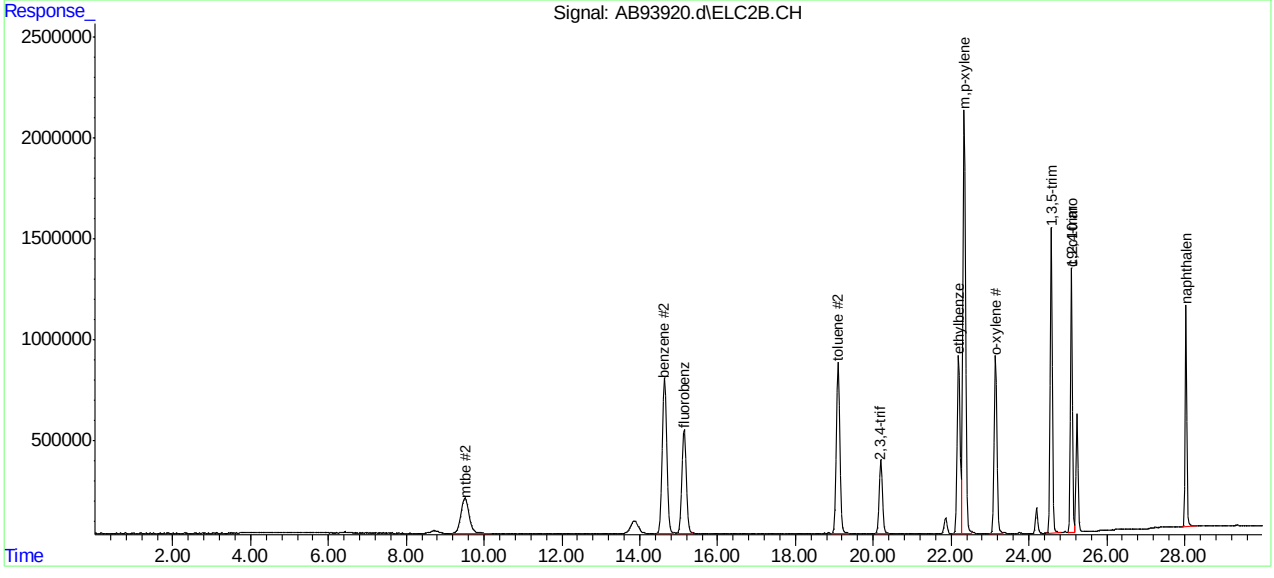
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93920.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 11:28:44
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

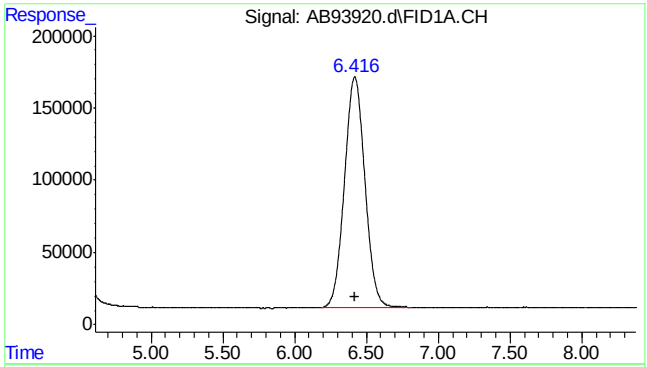
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 07:21:30 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



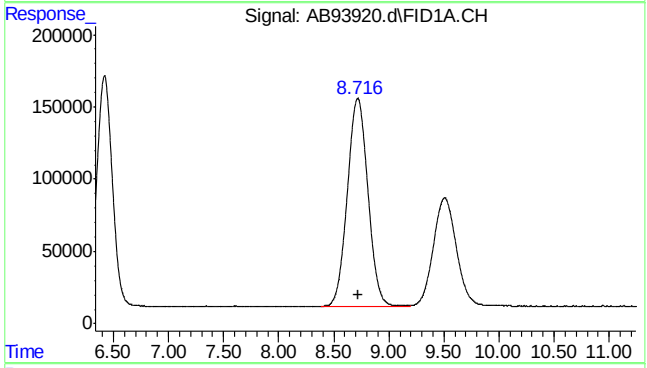


SGS ACCUTEST MC45611



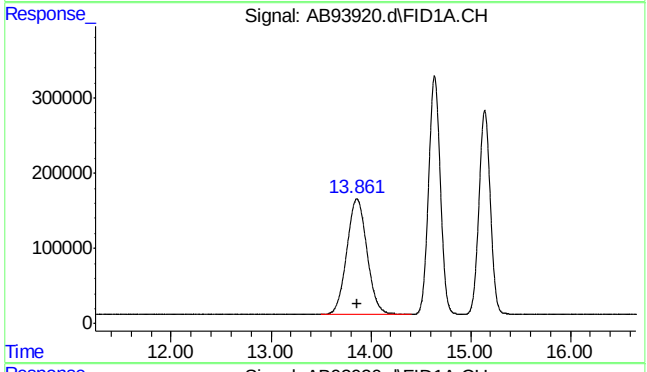
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15843570
Conc: 39.46 ppb m



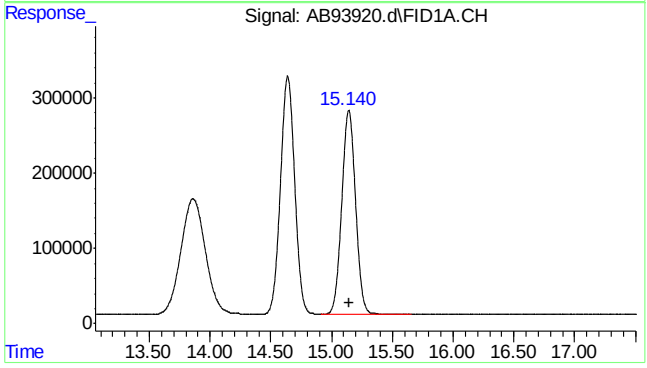
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18693340
Conc: 46.56 ppb m



#3 rt10/13

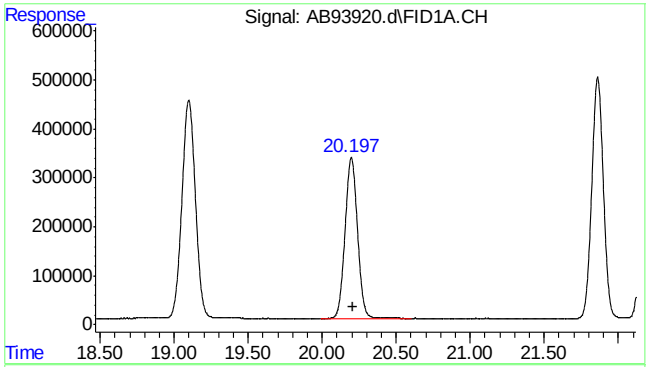
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21663987
Conc: 53.96 ppb m



#4 fluorobenzene

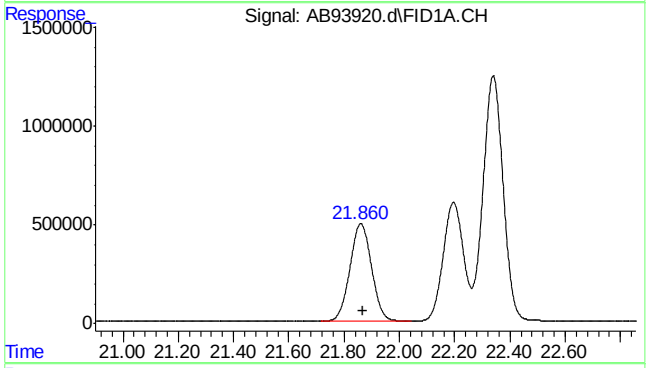
R.T.: 15.141 min
Delta R.T.: -0.010 min
Response: 21447173
Conc: 48.73 ppb

SGS ACCUTEST MC45611



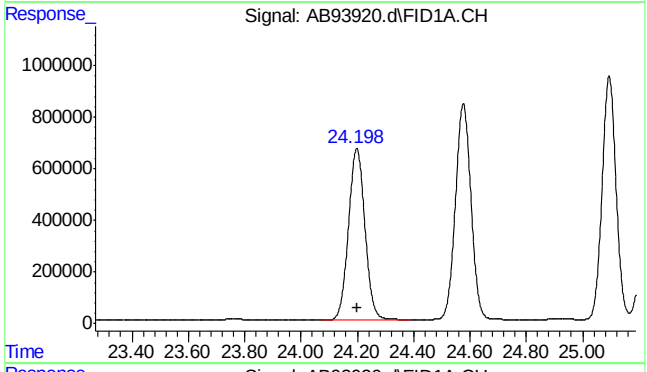
#6 2,3,4-trifluorotoluene

R.T.: 20.197 min
Delta R.T.: -0.008 min
Response: 19279870
Conc: 47.03 ppb



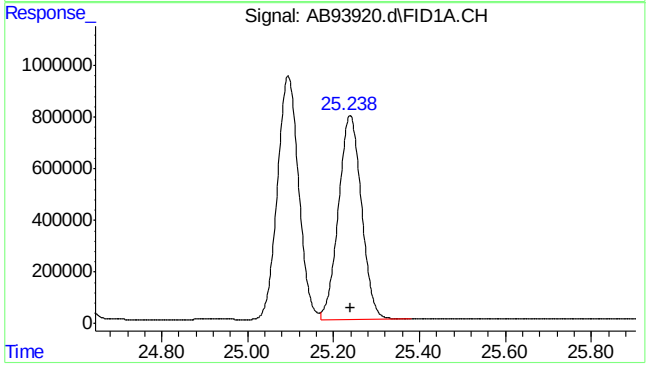
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26780924
Conc: 42.75 ppb m



#10 decane

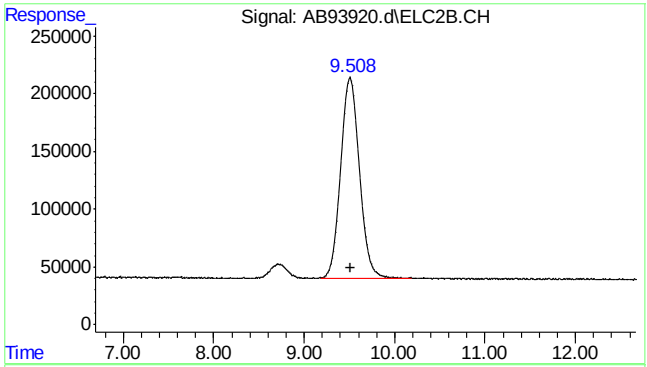
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26905954
Conc: 42.95 ppb



#11 butylcyclohexane

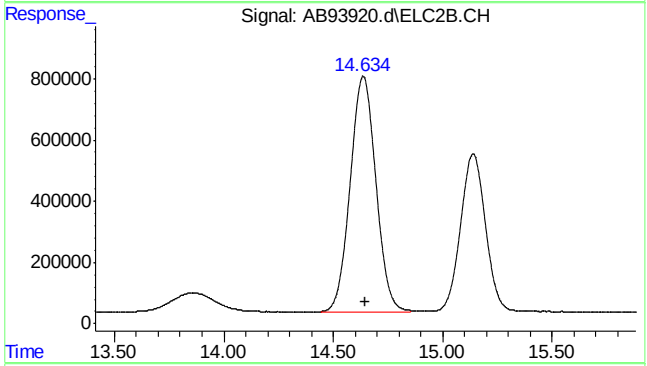
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29464705
Conc: 47.03 ppb

SGS ACCUTEST MC45611



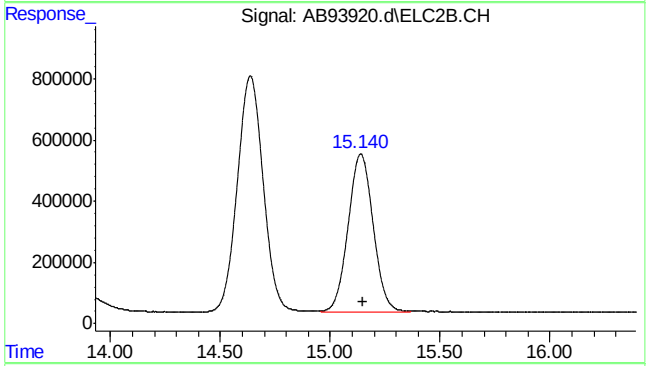
#14 mtbe #2

R.T.: 9.508 min
Delta R.T.: -0.003 min
Response: 25254809
Conc: 50.06 ppb m



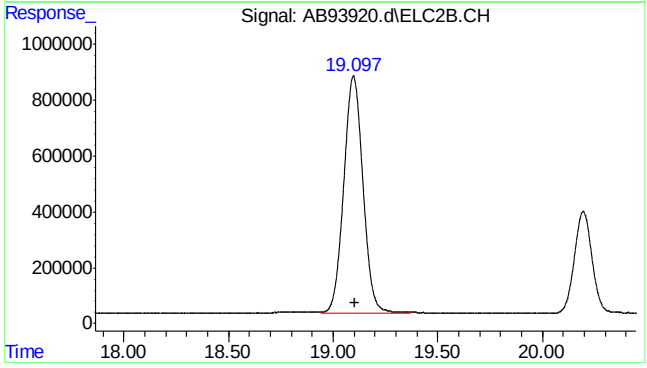
#15 benzene #2

R.T.: 14.634 min
Delta R.T.: -0.012 min
Response: 63327121
Conc: 48.65 ppb



#16 fluorobenzene #2

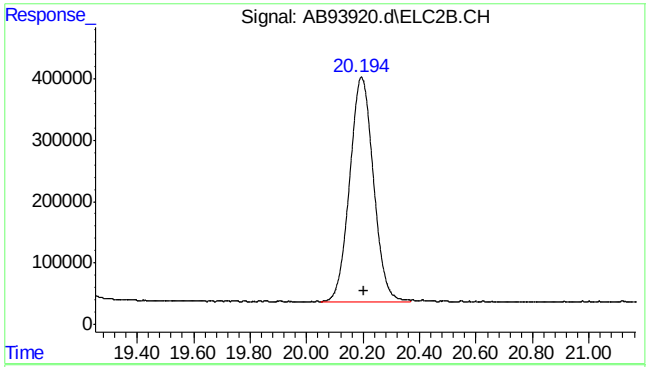
R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 41346028
Conc: 49.09 ppb



#17 toluene #2

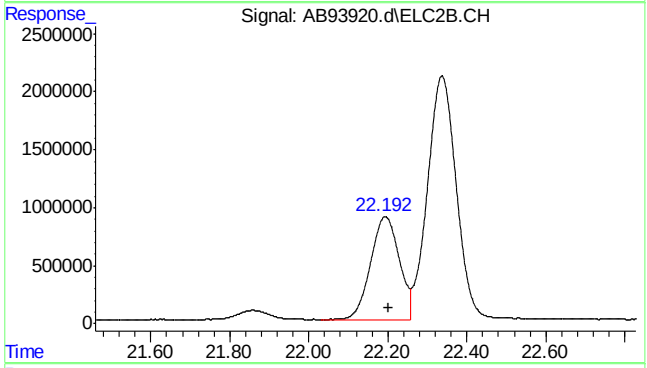
R.T.: 19.096 min
Delta R.T.: -0.010 min
Response: 54678446
Conc: 47.83 ppb

SGS ACCUTEST MC45611



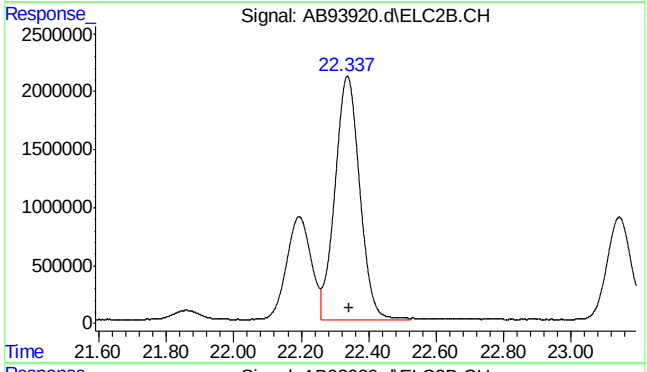
#18 2,3,4-trifluorotoluene #2

R.T.: 20.194 min
Delta R.T.: -0.009 min
Response: 21547443
Conc: 46.15 ppb



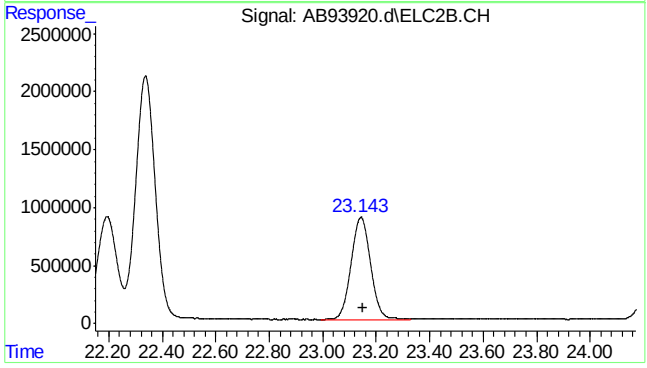
#19 ethylbenzene #2

R.T.: 22.193 min
Delta R.T.: -0.008 min
Response: 44823995
Conc: 48.41 ppb



#20 m,p-xylene #2

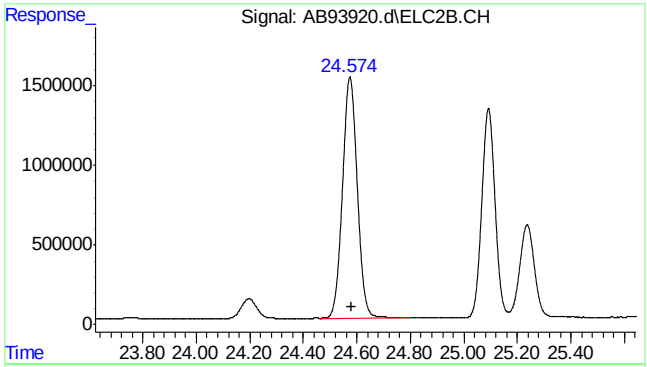
R.T.: 22.337 min
Delta R.T.: -0.007 min
Response: 106794614
Conc: 100.68 ppb



#21 o-xylene #2

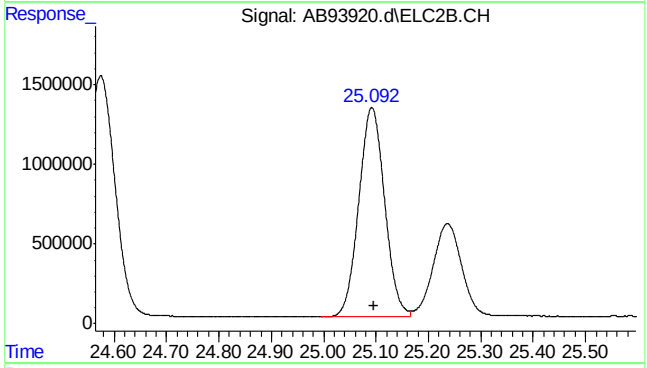
R.T.: 23.143 min
Delta R.T.: -0.007 min
Response: 44470064
Conc: 47.61 ppb

SGS ACCUTEST MC45611



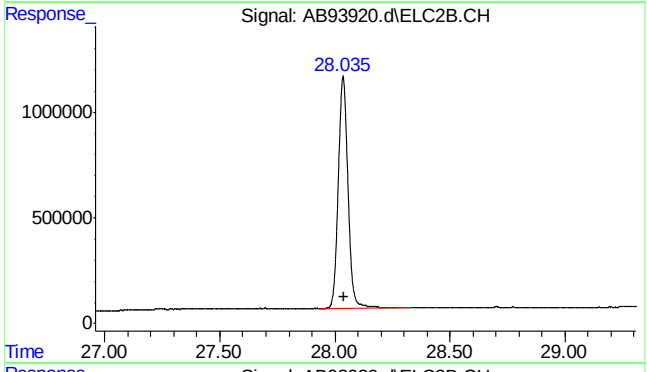
#22 1,3,5-trimethylbenzene #2

R.T.: 24.574 min
Delta R.T.: -0.005 min
Response: 58541348
Conc: 44.81 ppb



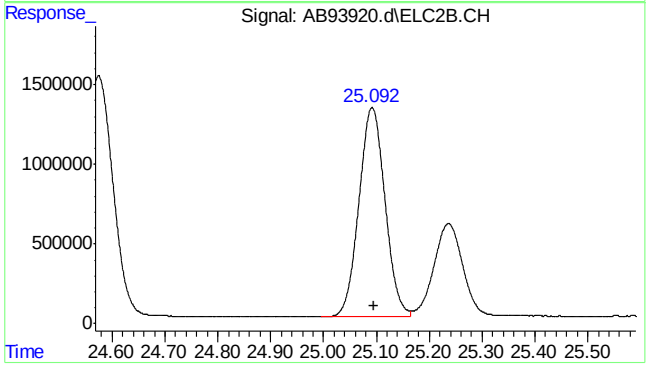
#23 1,2,4-trimethylbenzene #2

R.T.: 25.092 min
Delta R.T.: -0.004 min
Response: 45076982
Conc: 47.10 ppb



#24 naphthalene #2

R.T.: 28.035 min
Delta R.T.: -0.003 min
Response: 32155720
Conc: 44.48 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45089681
Conc: 47.06 ppb m

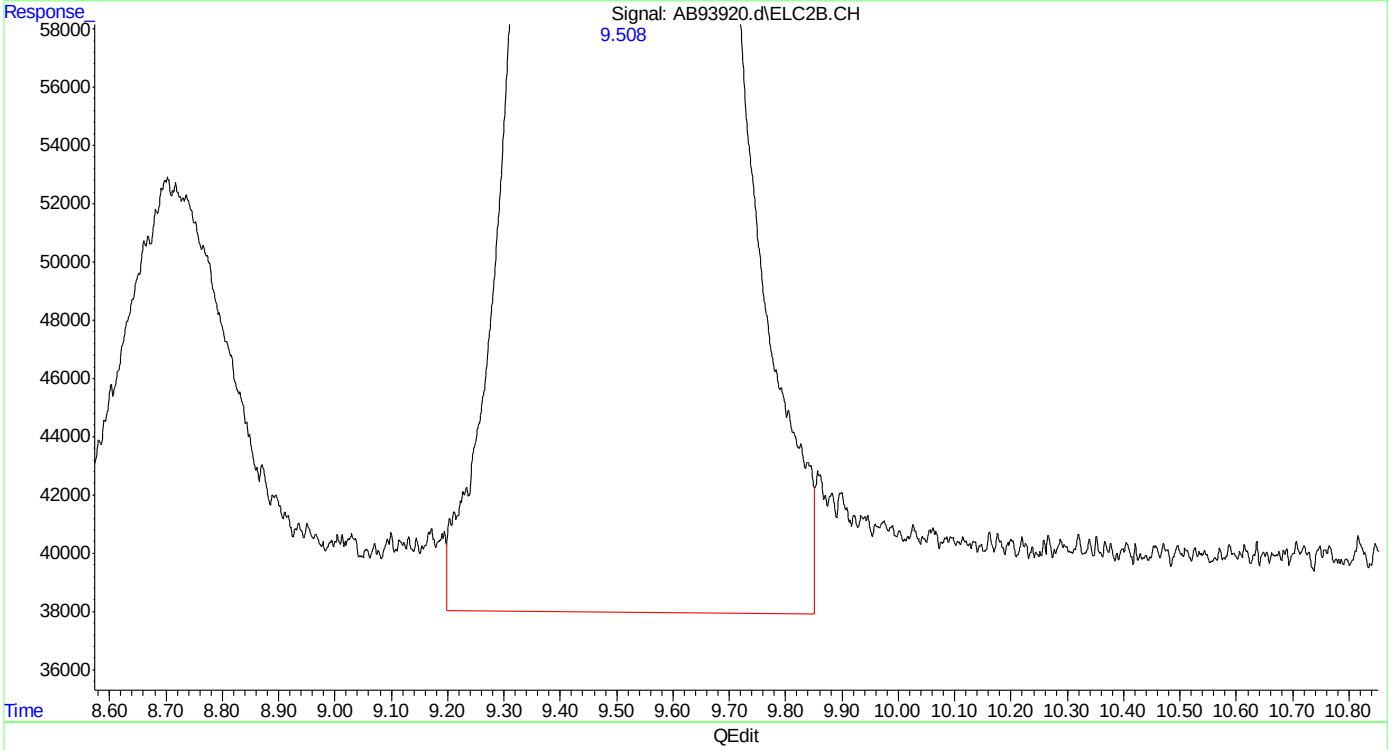
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93920.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 11:28:44
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:53 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
9.508min 51.272 ppb
response 25864051

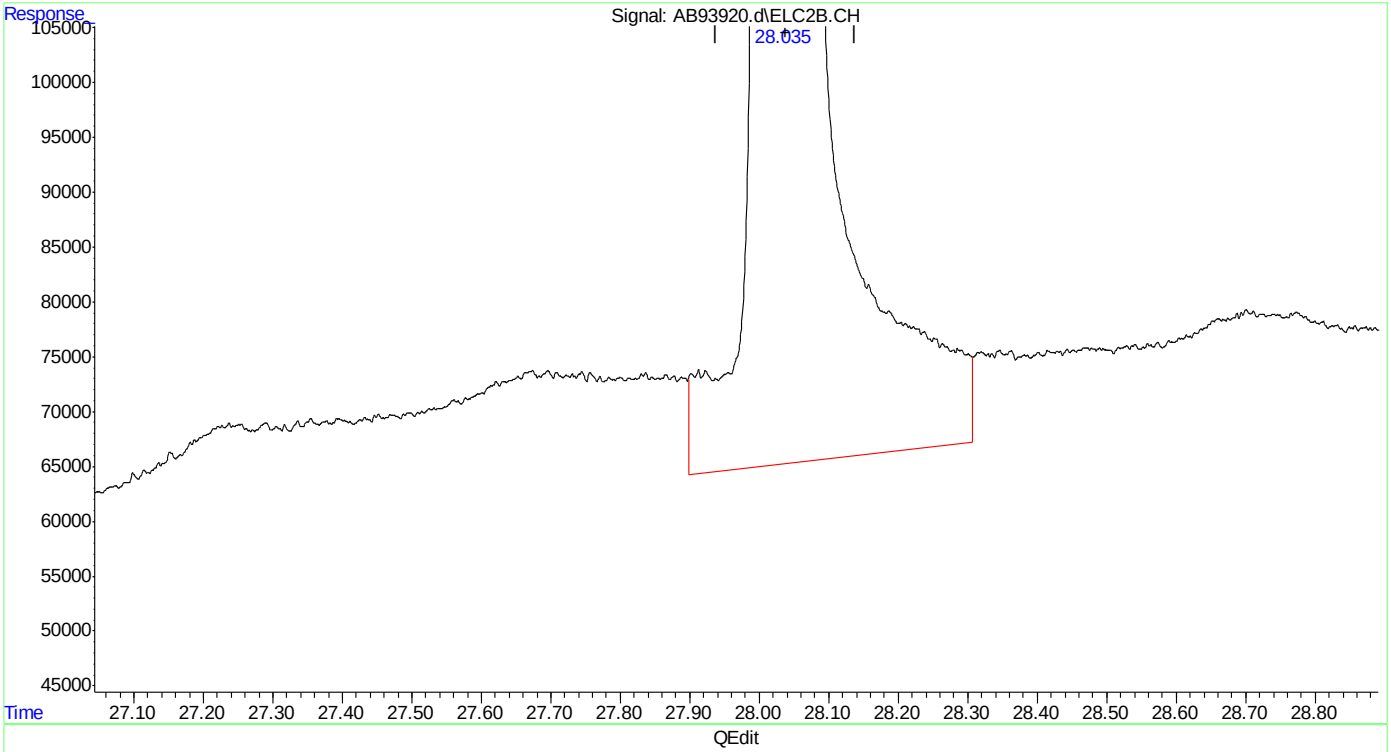
(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:21:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93920.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 11:28:44
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:53 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.036min 47.161 ppb
response 34093447

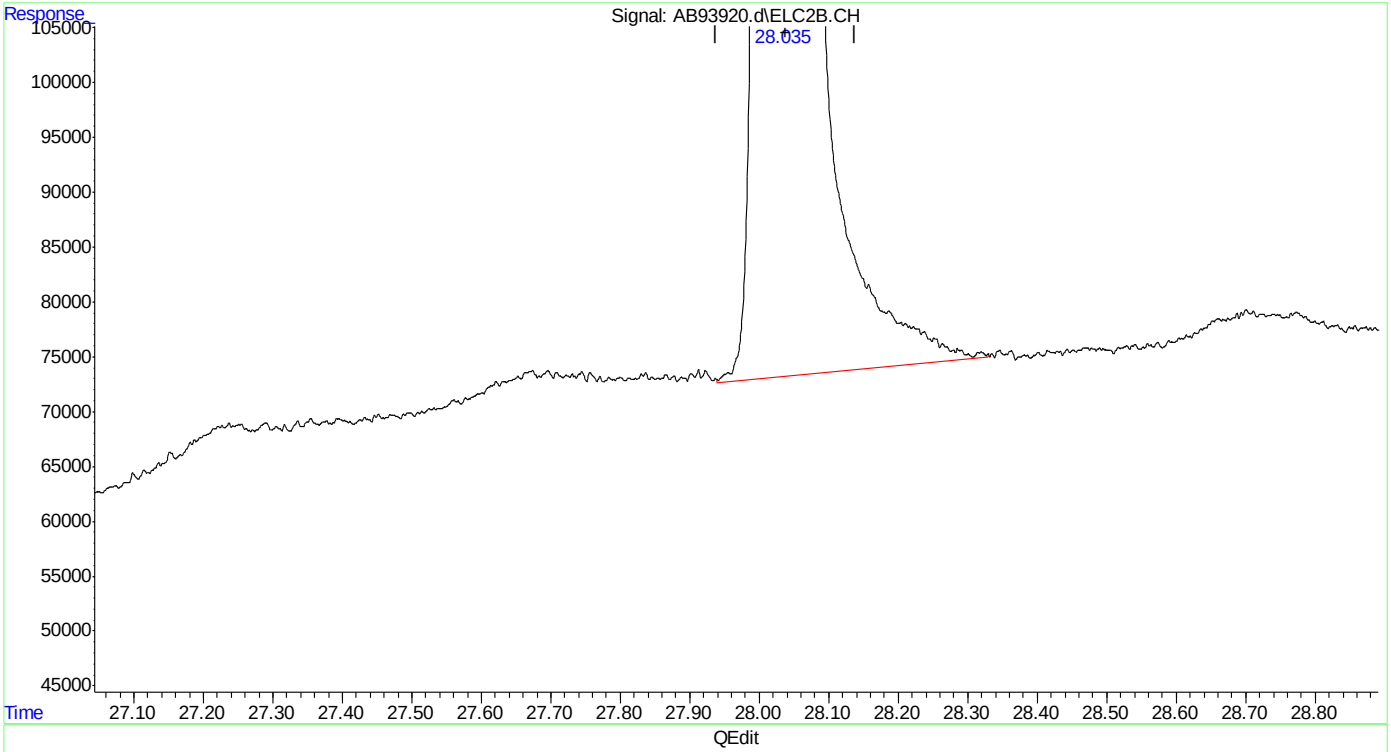
(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:21:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160502\
Data File : AB93920.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02-May-16, 11:28:44
Operator : tonyf
Sample : cc5058-50
Misc : gc26201,gab5160,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 06:55:53 2016
Quant Method : C:\msdchem\1\methods\ab160502vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.035min 44.481 ppb m
response 32155720

(+) = Expected Retention Time
ab160502vph.M Tue May 03 07:21:24 2016

ACCUTEST LABORATORIES

Instrument: GC 21 (AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 1-12-2016 Analyst Signature: HNN

Standards Data

Lot #	Description	Conc
VMAVPH	GC25816 gab5058	
V8021bTXMN	gc25818 gab5059 (A)	
V8015gro	gc25819 gab5060 (B)	

Standards Data

Lot #	Description	Conc
gv16253	VPH STD	50ug/mL 2/11/16
gv16254	↓	5ug/mL
gv16255	↓	1ug/mL
gv16256	VPH 2nd source	50ug/mL
gv16249	CC/LCS P2	250ug/mL 2/11/16

Column: MTX502-2
Method: ABVPH1
GC Seq. File: AB160112-S
Method Files: AB160112VPH MASTER
CC 5058-.50
AS Seq. File: N/A
Seq. Verification: HNN

Date of ICAL: 1-12-2016 ICAL Verified:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
AB92584	ic5058-1000	N/A	gc25816	VMAVPH	1	W	100ML gv16253		5mL DI		50ug/mL STD
85	-500	↓	↓	↓	2	↓	50ML	↓	↓		↓
86	-250				3		25ML				
87	-100				4		10ML				
88	ic5058-50				5		5ML	↓	↓		↓
89	ic5058-10				6		10ML gv16254		5mL DI		5ug/mL STD
90	-5				7		5ML	↓	↓		↓
91	-2				8		10ML gv16255		5mL DI		1ug/mL STD
92	-1				9		5ML	↓	↓		↓
93	icv5058-50				10		5ML gv16256		5mL DI		VPH 2nd source 50ug/L STD
94	ccs5058-50	↓	↓	↓	11	↓	1mL of gv16249	N/A	N/A	N/A	

1/12/2016 HNN

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, mls for water.

SGS ACCUTEST MC45611

C:\msdchem\1\data\ab160112\AB92593.d

Operator
Date Acquired
Method Reference: ABIGCOIIZVPHMASTER.M
Acq. Method file

VPH INITIAL CALIBRATION

AREA RESPONSE

FID Name	AB92584.d 1000	AB92585.d 500	AB92586.d 250.00	AB92587.d 100.00	AB92588.d 50.00	AB92589.d 10.00	AB92590.d 5.00	AB92591.d 2	AB92592.d 1.00	average CF	std dev	%rsd
pentane	331590120	167372210	83244108	33420619	17341856	3766236	1948123	782177	423417			
2-methylpentane	391421055	194354385	96840946	38500243	19931281	4308812	2254634	895663	474249			
iso-octane	251983203	155550894	90504546	40723060	22107974	4807629	2659001	1010297	532157			
Total Area	974995078	517377297	270589598	112643922	59381111	12882677	6862097	2688137	1429823			
Total Concentration ppb	3000	1500	750	300	150	30	15	6	3			
Calibration Response Factor	324998	344918	360786	375480	395374	429423	457473	448023	476608	401509	53780	13.39
nonane	591293979	289348466	144023290	55977594	28560611	6317132	3202966	1295530	636900			
decane	587741810	295400585	148414165	57632960	29380393	6389567	3274046	1363143	652274			
butylcyclohexane	562827500	299471611	153083117	60198202	30974569	6902750	3520100	1487308	764280			
Total Area	1741863288	884220661	445520562	173808745	88915573	19609449	9997101	4145981	2073455			
Total Concentration ppb	3000	1500	750	300	150	30	15	6	3			
Calibration Response Factor	580621	589480	594027	579362	592770	653648	666473	690997	691152	626504	48172	7.69

	Area	1000 ppb	50ppb
C5 - C8		401509187	20075459
C9 - C12		626503567	31325178

created 8/29/05 aef

Page 1 of 1

C:\msdchem\custrpt\VPHCAL9.CRT

Data File Name	AB92593.d
Operator	haleyn
Date Acquired	#VALUE!
Sample Name	icv5058-50
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	15547337	C5 - C8 area	CF	CF		
rt7/10	17999511	54467022	363113	401509	9.56	
rt10/13	20920173					
rt20/25	26744531					
decane	27320621	C9-C12 area				
butylcyclohexane	28763512	82828664	552191	626504	11.86	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 1-12-2016 HNN

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.6.1

7

SGS ACCUTEST MC45611

Data File Name	AB92594.d
Operator	haleyn
Date Acquired	#VALUE!
Sample Name	cc5058-50
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	16532359	C5 - C8 area	CF	CF		
rt7/10	19269803	57832334	385549	401509	3.98	
rt10/13	22030172					
rt20/25	27274050					
decane	27119315	C9-C12 area				
butylcyclohexane	29265246	83658611	557724	626504	10.98	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 1-12-2016 HNN

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

ACCUTEST LABORATORIES

Instrument: GC21 (AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 4/29/16

Analyst Signature: [illegible]

Standards Data

Lot #	Description	Conc
1/mnaph Ale	qc26197 qab	5159

Standards Data

Lot #	Description	Conc
qu 16374	cc/bap 25ug/ml	5/28/16
qu 16375	5mm	

Column: mtx 562.2

Method: ABVPH1

GC Seq. File: AB160429.S

Method Files:

AB160429 VPH ~~CC160429~~ 4/29/16

CC5058.50

AS Seq. File: 1-1 2-2 3-4

Date of ICAL: 1-12-16

ICAL Verified:

Seq. Verification: 5-5

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
ab93907 d	Amol 50	N/A	qc26197	√mnaph	1	W	1ml qu16374	N/A	N/A	N/A	
08 "	mb				2		1ml qu16375				
09 "	bsp				3		1ml qu16374				
10 "	bsd				4						
11 "	mc 45611-2				5		5ml			22	
12 "	-2ms				6		+ 1ml qu16374				
13	-2msD				7			N/A			
14 "	bmcal 50	N/A			8		1ml qu16374			N/A	

4/29/16 [illegible]

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, mls for water.

7

Data File Name	AB93907.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc5058-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	16242135	C5 - C8 area	CF	CF		
rt7/10	18879855	56869525	379130	401509	**5.57**	
rt10/13	21747535					
rt20/25	26156451					
decane	25948207	C9-C12 area				
butylcyclohexane	28773216	80877874	539186	626504	**13.94**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 4/29/16 aaf

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

SGS ACCUTEST MC45611

Data File Name	AB93914.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc5058-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	16327436	C5 - C8 area	CF	CF		
rt7/10	19087956	57731379	384876	401509	**4.14**	
rt10/13	22315987					
rt20/25	26899293					
decane	26827827	C9-C12 area				
butylcyclohexane	29507126	83234246	554895	626504	**11.43**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/2/16 aa

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

ACCUTEST LABORATORIES

Instrument: GC 21 (AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/2/16 Analyst Signature: [illegible]

Standards Data

Lot #	Description	Conc
Vmrwph 8015	qc 26201 gAb	5160

Standards Data

Lot #	Description	Conc
qu16374	cc 16g 250ml	5/28/16
qu16375	Stm	↓

Column: mtx 502.2
Method: ABVPH1
GC Seq. File: AB160502-5
Method Files:
AB160502 VPH cc5058-50

AS Seq. File: 1-1 2-2 3-4 5-5

Date of ICAL: 1-12-16 ICAL Verified: Seq. Verification: 6-6 [illegible]

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
ab93915	Conc.l 50	N/A	pc	Vmrwph	1	W	1ml qu16374	N/A	N/A	N/A	
16	mb	↓	16g 16ml	↓	2	S	5ml of 1ml	/50ml	↓	↓	
17	bsp		20g 20ml		3	↓	↓				
18	bsd	↓	↓ ↓		4						
19	* mc 45611-1	1	16.182g 16ml		5	↓	5ml of 1ml	/50ml			
20	Conc.l 50	N/A		↓	6	W	1ml qu16374	↓	↓	↓	

* only one vial sent for analysis NO MS/MSD

5/2/16 [illegible]

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, mls for water.

ACCUTEST

Methanol Prep Log

Vial #:	Sample ID:	Initial Tare Wt (g)	Total Wt (g)	Sample Wt (g)	Comments:
040615-3:53364	MC45611-1.1	40.790	56.972	16.182	15ml meoH + 1ml surr
020116-3:20930	MC45642-2.1	36.77	41.641	4.871	10ml meoH
020516-3:20929	MC45642-4.3	36.86	41.947	5.087	↓

Analyst: aef Date: 5/2/16

Page 1 of 1

Data File Name	AB93915.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc5058-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	15790298	C5 - C8 area	CF	CF		
rt7/10	18650571	56065563	373770	401509	**6.91**	
rt10/13	21624695					
rt20/25	26384763					
decane	26285017	C9-C12 area				
butylcyclohexane	29015566	81685346	544569	626504	**13.08**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/2/16 aef

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	AB93920.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc5058-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	15843570	C5 - C8 area	CF	CF		
rt7/10	18693340	56200898	374673	401509	**6.68**	
rt10/13	21663987					
rt20/25	26780924					
decane	26905954	C9-C12 area				
butylcyclohexane	29464705	83151583	554344	626504	**11.52**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/3/16 aef

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.6.3

7

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: MC45611
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
OP47292-MB	DE14005.D	1	05/02/16	TA	04/29/16	OP47292	GDE783

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

MC45611-2A

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	87%	40-140%
321-60-8	2-Fluorobiphenyl	108%	40-140%
3386-33-2	1-Chlorooctadecane	47%	40-140%
580-13-2	2-Bromonaphthalene	110%	40-140%

Method Blank Summary

Job Number: MC45611
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
OP47424-MB	DE14091.D	1	05/16/16	TA	05/10/16	OP47424	GDE791

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

MC45611-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	18000	14000	ug/kg	
	C9-C18 Aliphatics	ND	8900	7100	ug/kg	
	C19-C36 Aliphatics	ND	8900	7100	ug/kg	
	C11-C22 Aromatics	ND	18000	14000	ug/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	40-140%
321-60-8	2-Fluorobiphenyl	87%	40-140%
580-13-2	2-Bromonaphthalene	89%	40-140%
3386-33-2	1-Chlorooctadecane	72%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45611
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
OP47292-BS	DE14003.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
OP47292-BSD	DE14004.D	1	05/02/16	TA	04/29/16	OP47292	GDE783

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

MC45611-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	776	97	747	93	4	40-140/25
	C9-C18 Aliphatics	300	190	63	168	56	12	40-140/25
	C19-C36 Aliphatics	400	405	101	358	90	12	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	79%	78%	40-140%
321-60-8	2-Fluorobiphenyl	82%	86%	40-140%
3386-33-2	1-Chlorooctadecane	81%	73%	40-140%
580-13-2	2-Bromonaphthalene	70%	74%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47292-BS	2-Methylnaphthalene	27.5	0.13	0.5%	5.0
OP47292-BS	Naphthalene	25.7	0.16	0.6%	5.0
OP47292-BSD	2-Methylnaphthalene	27.5	0.16	0.6%	5.0
OP47292-BSD	Naphthalene	25.6	0.17	0.7%	5.0

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45611
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
OP47424-BS	DE14089.D	1	05/16/16	TA	05/10/16	OP47424	GDE791
OP47424-BSD	DE14090.D	1	05/16/16	TA	05/10/16	OP47424	GDE791

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

MC45611-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	69600	64800	93	60400	85	7	40-140/25
	C9-C18 Aliphatics	26100	17300	66	17900	67	3	40-140/25
	C19-C36 Aliphatics	34800	28500	82	29700	83	4	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	94%	83%	40-140%
321-60-8	2-Fluorobiphenyl	96%	83%	40-140%
580-13-2	2-Bromonaphthalene	90%	79%	40-140%
3386-33-2	1-Chlorooctadecane	72%	77%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47424-BS	2-Methylnaphthalene	2920	9.4	0.3%	5.0
OP47424-BS	Naphthalene	2740	21.4	0.8%	5.0
OP47424-BSD	2-Methylnaphthalene	2600	8.4	0.3%	5.0
OP47424-BSD	Naphthalene	2540	14.7	0.6%	5.0

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45611
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
OP47292-MS	DE14009.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
OP47292-MSD	DE14010.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
MC45611-2A	DE14008.D	1	05/02/16	TA	04/29/16	OP47292	GDE783

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

MC45611-2A

CAS No.	Compound	MC45611-2A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		909	934	103	909	849	93	10	40-140/25
	C9-C18 Aliphatics	ND		341	218	64	341	215	63	1	40-140/25
	C19-C36 Aliphatics	ND		455	466	103	455	439	97	6	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45611-2A	Limits
84-15-1	o-Terphenyl	83%	75%	82%	40-140%
321-60-8	2-Fluorobiphenyl	96%	87%	94%	40-140%
3386-33-2	1-Chlorooctadecane	65%	60%	62%	40-140%
580-13-2	2-Bromonaphthalene	83%	77%	96%	40-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45611
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
OP47424-MS	DE14093.D	1	05/16/16	TA	05/10/16	OP47424	GDE791
OP47424-MSD	DE14094.D	1	05/16/16	TA	05/10/16	OP47424	GDE791
MC45611-1	DE14092.D	1	05/16/16	TA	05/10/16	OP47424	GDE791

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

MC45611-1

CAS No.	Compound	MC45611-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		94700	80000	84	90700	78700	87	2	40-140/25
	C9-C18 Aliphatics	ND		35500	25000	70	34000	28100	83	12	40-140/25
	C19-C36 Aliphatics	ND		47400	38800	82	45300	41900	92	8	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45611-1	Limits
84-15-1	o-Terphenyl	83%	84%	82%	40-140%
321-60-8	2-Fluorobiphenyl	84%	89%	84%	40-140%
580-13-2	2-Bromonaphthalene	80%	80%	86%	40-140%
3386-33-2	1-Chlorooctadecane	66%	95%	65%	40-140%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45611
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]
MC45611-2A	DE14008.D	82	94	62	96
OP47292-BS	DE14003.D	79	82	81	70
OP47292-BSD	DE14004.D	78	86	73	74
OP47292-MB	DE14005.D	87	108	47	110
OP47292-MS	DE14009.D	83	96	65	83
OP47292-MSD	DE14010.D	75	87	60	77

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

Semivolatile Surrogate Recovery Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Method: MADEP EPH REV 1.1 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]	S4 [b]
MC45611-1	DE14092.D	82	84	86	65
OP47424-BS	DE14089.D	94	96	90	72
OP47424-BSD	DE14090.D	83	83	79	77
OP47424-MB	DE14091.D	87	87	89	72
OP47424-MS	DE14093.D	83	84	80	66
OP47424-MSD	DE14094.D	84	89	80	95

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 2-Bromonaphthalene	40-140%
S4 = 1-Chlorooctadecane	40-140%

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

GC Surrogate Retention Time Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE783-CC735	**Injection Date:**	05/02/16
Lab File ID:	DE14002.D	**Injection Time:**	11:43
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.96	6.68	11.23	7.42

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47292-BS	DE14003.D	05/02/16	12:19	9.96	6.69	11.23	7.42
OP47292-BSD	DE14004.D	05/02/16	12:46	9.96	6.68	11.23	7.42
OP47292-MB	DE14005.D	05/02/16	13:14	9.96	6.68	11.23	7.42
ZZZZZZ	DE14006.D	05/02/16	13:42	9.96	6.68	11.23	7.42
ZZZZZZ	DE14007.D	05/02/16	14:09	9.96	6.68	11.23	7.42
MC45611-2A	DE14008.D	05/02/16	14:37	9.96	6.69	11.23	7.42
OP47292-MS	DE14009.D	05/02/16	15:05	9.96	6.69	11.23	7.42
OP47292-MSD	DE14010.D	05/02/16	15:33	9.96	6.69	11.23	7.42

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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE791-CC735	**Injection Date:**	05/16/16
Lab File ID:	DE14088.D	**Injection Time:**	08:15
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	9.87	6.61	7.33	11.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
OP47424-BS	DE14089.D	05/16/16	08:49	9.88	6.61	7.34	11.23
OP47424-BSD	DE14090.D	05/16/16	09:17	9.87	6.61	7.33	11.23
OP47424-MB	DE14091.D	05/16/16	09:45	9.87	6.61	7.33	11.23
MC45611-1	DE14092.D	05/16/16	10:12	9.87	6.61	7.34	11.23
OP47424-MS	DE14093.D	05/16/16	10:40	9.87	6.61	7.34	11.23
OP47424-MSD	DE14094.D	05/16/16	11:08	9.87	6.61	7.34	11.23
ZZZZZZ	DE14095.D	05/16/16	11:35	9.87	6.61	7.34	11.23
ZZZZZZ	DE14096.D	05/16/16	12:03	9.87	6.61	7.34	11.23
ZZZZZZ	DE14097.D	05/16/16	12:31	9.87	6.61	7.34	11.23
ZZZZZZ	DE14098.D	05/16/16	12:59	9.87	6.61	7.34	11.22

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

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

Initial Calibration Summary

Job Number: MC45611
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: MC45611
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: MC45611
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: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE735-ICV735
Lab FileID: DE13198.D

32		c-18	73.872	69.894	E3	5.4	0#	0.00
33		c-19	66.806	68.487	E3	-2.5	0#	0.00
34		c-20	66.806	67.817	E3	-1.5	0#	0.00
35	s	1-chlorooctadecane	56.575	59.379	E3	-5.0	111	0.00
36		c-22	66.806	66.707	E3	0.1	0#	0.00
37		c-24	66.806	65.519	E3	1.9	0#	0.00
38		c-26	66.806	65.031	E3	2.7	0#	0.00
39		c-28	66.806	64.086	E3	4.1	0#	0.00
40	h	c-30	66.806	62.872	E3	5.9	0#	0.00
41	h	c-36	66.806	58.670	E3	12.2	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000		0.0	0#	-15.69#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160204W.M Fri Feb 05 14:30:12 2016

8.6.2

8

Continuing Calibration Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE783-CC735
Lab FileID: DE14002.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  2 May 2016  11:43 am
Operator  : thomasa
Sample    : cc735-50, gde783
Misc      : op47292,gde783,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	126.160 E3	-22.3	118	0.00
3		2-methylnaphthalene	102.482	123.147 E3	-20.2	116	0.00
4	s	2-fluorobiphenyl	92.230	111.317 E3	-20.7	117	0.00
5		acenaphthylene	100.602	119.855 E3	-19.1	115	0.00
6	s	2-bromonaphthalene	62.755	73.894 E3	-17.7	114	0.00
7		acenaphthene	103.376	123.437 E3	-19.4	115	0.00
8		fluorene	101.567	119.965 E3	-18.1	114	0.00
9		phenanthrene	101.763	117.663 E3	-15.6	113	0.00
10		anthracene	97.008	112.825 E3	-16.3	113	0.00
11	s	o-terphenyl	102.427	118.155 E3	-15.4	112	0.00
12		fluoranthene	99.941	113.618 E3	-13.7	112	0.00
13		pyrene	101.462	116.481 E3	-14.8	114	0.00
14		benzo(a)anthracene	96.675	108.517 E3	-12.2	111	0.00
15		chrysene	97.341	109.872 E3	-12.9	111	0.00
16		benzo(B)fluoranthene	99.002	108.082 E3	-9.2	109	0.00
17		benzo(k)fluoranthene	94.503	112.295 E3	-18.8	114	0.00
18		benzo(a)pyrene	92.435	105.355 E3	-14.0	111	0.00
19		indeno(1,2,3-cd)pyrene	94.658	111.666 E3	-18.0	115	0.00
20		dibenzo(ah)anthracene	91.399	100.760 E3	-10.2	108	0.00
21		benzo(ghi)perylene	92.123	105.009 E3	-14.0	112	0.00
Signal #2							
25	h	c-9	73.872	77.518 E3	-4.9	0#	0.00
26	h	c-10	73.872	78.662 E3	-6.5	0#	0.00
27		naphthalene #2	79.872	83.933 E3	-5.1	110	0.00
28		c-12	73.872	78.172 E3	-5.8	0#	0.00
29		2-methylnaphthalene #2	80.566	83.860 E3	-4.1	110	0.00
30		c-14	73.872	77.703 E3	-5.2	0#	0.00
31		c-16	73.872	77.047 E3	-4.3	0#	0.00

Continuing Calibration Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE783-CC735
Lab FileID: DE14002.D

32		c-18	73.872	77.021	E3	-4.3	0#	0.00
33		c-19	66.806	76.586	E3	-14.6	0#	0.00
34		c-20	66.806	75.228	E3	-12.6	0#	0.00
35	s	1-chlorooctadecane	56.575	60.934	E3	-7.7	114	0.00
36		c-22	66.806	74.910	E3	-12.1	0#	0.00
37		c-24	66.806	70.194	E3	-5.1	0#	0.00
38		c-26	66.806	74.686	E3	-11.8	0#	0.00
39		c-28	66.806	72.169	E3	-8.0	0#	0.00
40	h	c-30	66.806	72.123	E3	-8.0	0#	0.00
41	h	c-36	66.806	60.111	E3	10.0	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000		0.0	0#	-15.67#
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

EPH160502W.M Tue May 03 08:57:24 2016

8.6.3

8

Continuing Calibration Summary

Job Number: MC45611 **Sample:** GDE783-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14011.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  2 May 2016   4:00 pm
Operator  : thomasa
Sample    : cc735-50, gde783
Misc      : op47292,gde783,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	128.520 E3	-24.6	120	0.00
3		2-methylnaphthalene	102.482	125.521 E3	-22.5	119	0.00
4	s	2-fluorobiphenyl	92.230	113.361 E3	-22.9	119	0.00
5		acenaphthylene	100.602	122.189 E3	-21.5	118	0.00
6	s	2-bromonaphthalene	62.755	75.521 E3	-20.3	116	0.00
7		acenaphthene	103.376	127.055 E3	-22.9	119	0.00
8		fluorene	101.567	122.527 E3	-20.6	117	0.00
9		phenanthrene	101.763	119.842 E3	-17.8	115	0.00
10		anthracene	97.008	115.126 E3	-18.7	116	0.00
11	s	o-terphenyl	102.427	120.468 E3	-17.6	115	0.00
12		fluoranthene	99.941	115.769 E3	-15.8	114	0.00
13		pyrene	101.462	118.389 E3	-16.7	116	0.00
14		benzo(a)anthracene	96.675	110.569 E3	-14.4	113	0.00
15		chrysene	97.341	111.343 E3	-14.4	112	0.00
16		benzo(B)fluoranthene	99.002	112.735 E3	-13.9	113	0.00
17		benzo(k)fluoranthene	94.503	110.262 E3	-16.7	112	0.00
18		benzo(a)pyrene	92.435	106.388 E3	-15.1	113	0.00
19		indeno(1,2,3-cd)pyrene	94.658	107.606 E3	-13.7	111	0.00
20		dibenzo(ah)anthracene	91.399	105.809 E3	-15.8	113	0.00
21		benzo(ghi)perylene	92.123	105.208 E3	-14.2	112	0.00
Signal #2							
25	h	c-9	73.872	82.426 E3	-11.6	0#	0.00
26	h	c-10	73.872	83.472 E3	-13.0	0#	0.00
27		naphthalene #2	79.872	88.874 E3	-11.3	117	0.00
28		c-12	73.872	82.611 E3	-11.8	0#	0.00
29		2-methylnaphthalene #2	80.566	88.428 E3	-9.8	116	0.00
30		c-14	73.872	81.333 E3	-10.1	0#	0.00
31		c-16	73.872	79.667 E3	-7.8	0#	0.00

Continuing Calibration Summary

Job Number: MC45611 **Sample:** GDE783-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14011.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	78.809	E3	-6.7	0#	0.00
33		c-19	66.806	78.158	E3	-17.0	0#	0.00
34		c-20	66.806	76.418	E3	-14.4	0#	0.00
35	s	1-chlorooctadecane	56.575	61.759	E3	-9.2	115	0.00
36		c-22	66.806	75.694	E3	-13.3	0#	0.00
37		c-24	66.806	70.367	E3	-5.3	0#	0.00
38		c-26	66.806	74.450	E3	-11.4	0#	0.00
39		c-28	66.806	71.664	E3	-7.3	0#	0.00
40	h	c-30	66.806	71.119	E3	-6.5	0#	0.00
41	h	c-36	66.806	58.747	E3	12.1	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000		0.0	0#	-15.67#
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

EPH160502W.M Tue May 03 08:57:17 2016

8.6.4

8

Continuing Calibration Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE791-CC735
Lab FileID: DE14088.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14088.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 16 May 2016   8:15 am
Operator  : thomasa
Sample    : cc735-50,gde791
Misc      : op47424,gde791,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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	100.911 E3	2.2	94	0.00
3		2-methylnaphthalene	102.482	100.851 E3	1.6	95	0.00
4	s	2-fluorobiphenyl	92.230	91.833 E3	0.4	97	0.00
5		acenaphthylene	100.602	101.181 E3	-0.6	97	0.00
6	s	2-bromonaphthalene	62.755	62.162 E3	0.9	96	0.00
7		acenaphthene	103.376	104.851 E3	-1.4	98	0.00
8		fluorene	101.567	101.994 E3	-0.4	97	0.00
9		phenanthrene	101.763	102.008 E3	-0.2	98	0.00
10		anthracene	97.008	98.524 E3	-1.6	99	0.00
11	s	o-terphenyl	102.427	102.527 E3	-0.1	98	0.00
12		fluoranthene	99.941	101.024 E3	-1.1	99	0.00
13		pyrene	101.462	103.627 E3	-2.1	101	0.00
14		benzo(a)anthracene	96.675	98.716 E3	-2.1	101	0.00
15		chrysene	97.341	99.509 E3	-2.2	100	0.00
16		benzo(B)fluoranthene	99.002	100.392 E3	-1.4	101	0.00
17		benzo(k)fluoranthene	94.503	102.330 E3	-8.3	104	0.00
18		benzo(a)pyrene	92.435	96.867 E3	-4.8	103	0.00
19		indeno(1,2,3-cd)pyrene	94.658	99.729 E3	-5.4	103	0.00
20		dibenzo(ah)anthracene	91.399	97.896 E3	-7.1	104	0.00
21		benzo(ghi)perylene	92.123	98.722 E3	-7.2	105	0.00

Signal #2

25	h	c-9	73.872	78.786 E3	-6.7	0#	0.00
26	h	c-10	73.872	80.298 E3	-8.7	0#	0.00
27		naphthalene #2	79.872	85.474 E3	-7.0	112	0.00
28		c-12	73.872	79.771 E3	-8.0	0#	0.00
29		2-methylnaphthalene #2	80.566	85.424 E3	-6.0	112	0.00
30		c-14	73.872	78.976 E3	-6.9	0#	0.00
31		c-16	73.872	78.034 E3	-5.6	0#	0.00

Continuing Calibration Summary

Job Number: MC45611 **Sample:** GDE791-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14088.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	77.930	E3	-5.5	0#	0.00
33		c-19	66.806	77.213	E3	-15.6	0#	0.00
34		c-20	66.806	75.645	E3	-13.2	0#	0.00
35	s	1-chlorooctadecane	56.575	60.742	E3	-7.4	113	0.00
36		c-22	66.806	74.996	E3	-12.3	0#	0.00
37		c-24	66.806	69.924	E3	-4.7	0#	0.00
38		c-26	66.806	74.079	E3	-10.9	0#	0.00
39		c-28	66.806	71.321	E3	-6.8	0#	0.00
40	h	c-30	66.806	70.816	E3	-6.0	0#	0.00
41	h	c-36	66.806	61.663	E3	7.7	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#	-15.67#
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

EPH160516W.M Mon May 16 15:25:00 2016

8.6.5

8

Continuing Calibration Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE791-CC735
Lab FileID: DE14099.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14099.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 16 May 2016   1:27 pm
Operator  : thomasa
Sample    : cc735-50,gde791
Misc      : op47424,gde791,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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	115.116 E3	-11.6	108	0.00
3		2-methylnaphthalene	102.482	113.721 E3	-11.0	108	0.00
4	s	2-fluorobiphenyl	92.230	103.352 E3	-12.1	109	0.00
5		acenaphthylene	100.602	113.894 E3	-13.2	110	0.00
6	s	2-bromonaphthalene	62.755	69.973 E3	-11.5	108	0.00
7		acenaphthene	103.376	117.804 E3	-14.0	110	0.00
8		fluorene	101.567	114.551 E3	-12.8	109	0.00
9		phenanthrene	101.763	113.746 E3	-11.8	109	0.00
10		anthracene	97.008	109.263 E3	-12.6	110	0.00
11	s	o-terphenyl	102.427	114.127 E3	-11.4	109	0.00
12		fluoranthene	99.941	111.130 E3	-11.2	109	0.00
13		pyrene	101.462	113.906 E3	-12.3	111	0.00
14		benzo(a)anthracene	96.675	106.838 E3	-10.5	109	0.00
15		chrysene	97.341	106.773 E3	-9.7	108	0.00
16		benzo(B)fluoranthene	99.002	108.247 E3	-9.3	109	0.00
17		benzo(k)fluoranthene	94.503	106.619 E3	-12.8	108	0.00
18		benzo(a)pyrene	92.435	102.307 E3	-10.7	108	0.00
19		indeno(1,2,3-cd)pyrene	94.658	105.330 E3	-11.3	108	0.00
20		dibenzo(ah)anthracene	91.399	100.774 E3	-10.3	108	0.00
21		benzo(ghi)perylene	92.123	102.285 E3	-11.0	109	0.00
Signal #2							
25	h	c-9	73.872	79.716 E3	-7.9	0#	0.00
26	h	c-10	73.872	81.085 E3	-9.8	0#	0.00
27		naphthalene #2	79.872	86.391 E3	-8.2	114	0.00
28		c-12	73.872	80.617 E3	-9.1	0#	0.00
29		2-methylnaphthalene #2	80.566	86.496 E3	-7.4	114	0.00
30		c-14	73.872	79.962 E3	-8.2	0#	0.00
31		c-16	73.872	78.938 E3	-6.9	0#	0.00

Continuing Calibration Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE791-CC735
Lab FileID: DE14099.D

32		c-18	73.872	78.747	E3	-6.6	0#	0.00
33		c-19	66.806	77.999	E3	-16.8	0#	0.00
34		c-20	66.806	76.494	E3	-14.5	0#	0.00
35	s	1-chlorooctadecane	56.575	61.749	E3	-9.1	115	0.00
36		c-22	66.806	75.846	E3	-13.5	0#	0.00
37		c-24	66.806	70.799	E3	-6.0	0#	0.00
38		c-26	66.806	75.108	E3	-12.4	0#	0.00
39		c-28	66.806	72.432	E3	-8.4	0#	0.00
40	h	c-30	66.806	72.220	E3	-8.1	0#	0.00
41	h	c-36	66.806	64.706	E3	3.1	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#	-15.67#
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

EPH160516W.M Mon May 16 15:24:53 2016

8.6.6

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14092.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:12 am
Operator : thomasa
Sample : mc45611-1,op47424
Misc : op47424,gde791,11.04,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:48:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1542671	16.726 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	83.63%#
6) s 2-bromonaphthalene	7.335	1076893	17.160 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	85.80%#
11) s o-terphenyl	9.872	1675876	16.362 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	81.81%#
35) s 1-chlorooctadecane	11.225	729822	12.900 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	64.50%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2302396	23.445 µg/mlm
25) h c-9	2.648	1168928	15.824 µg/mlm
41) h c-36	17.008	952427	14.257 µg/mlm

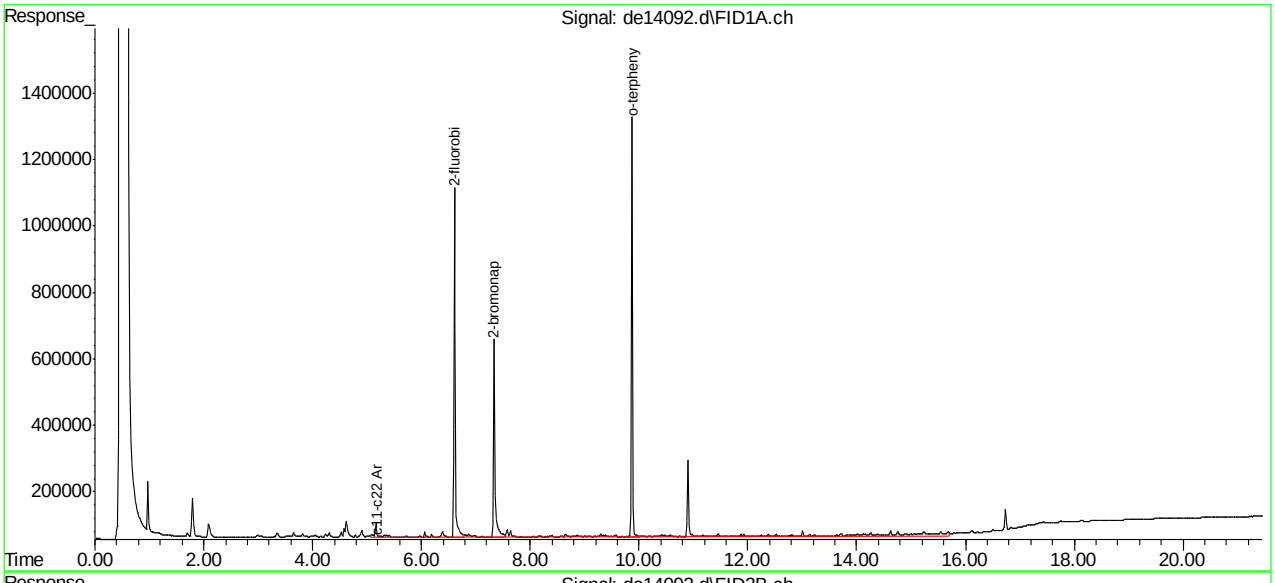
(f)=RT Delta > 1/2 Window (m)=manual int.

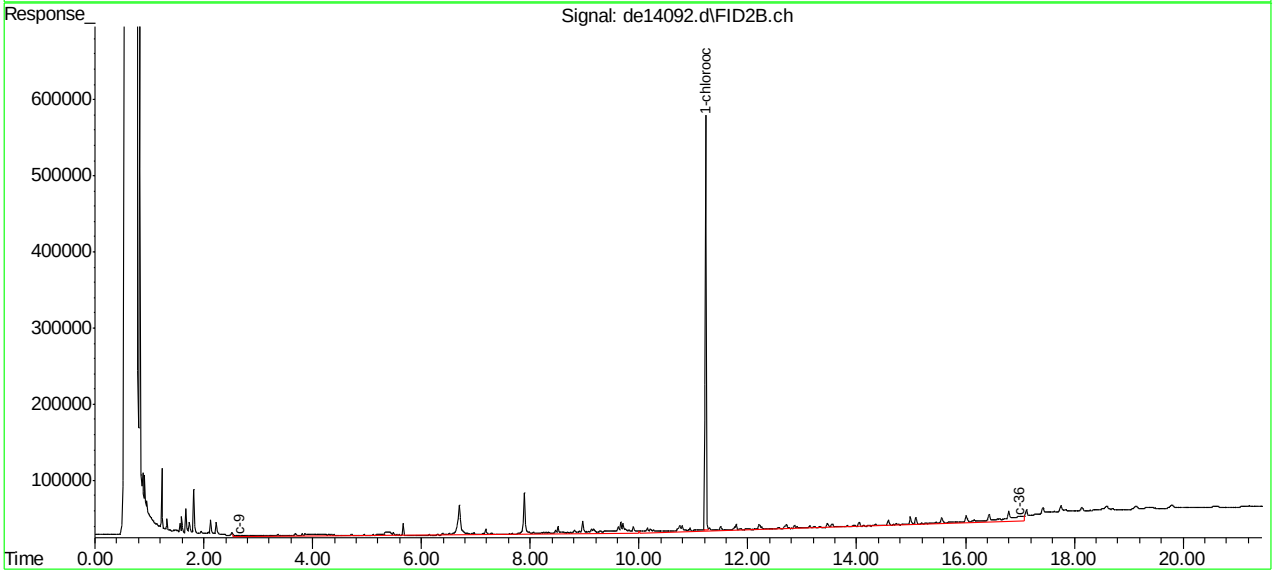
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14092.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:12 am
Operator : thomasa
Sample : mc45611-1,op47424
Misc : op47424,gde791,11.04,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

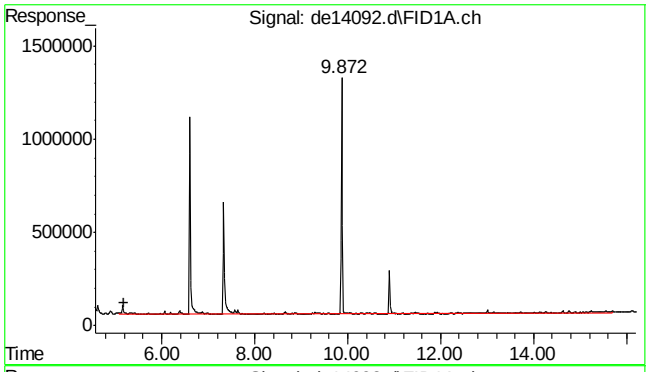
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:48:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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



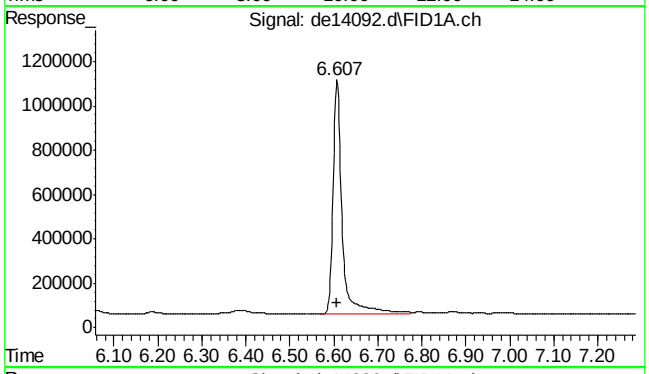


EPH160516W.M Mon May 16 15:25:25 2016 Page: 2



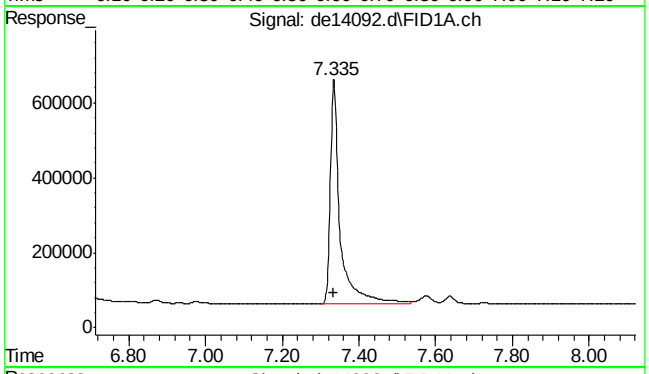
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2302396
Conc: 23.44 µg/ml m



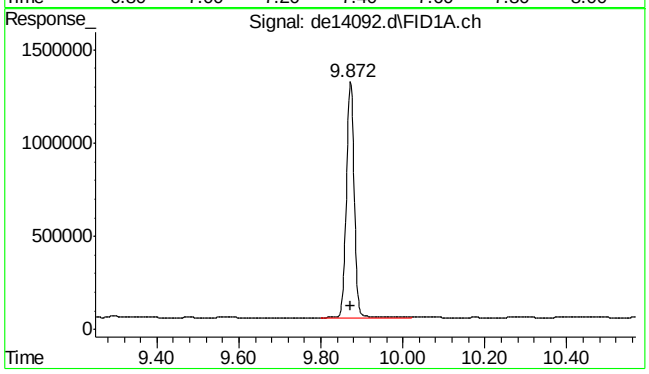
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.000 min
Response: 1542671
Conc: 16.73 µg/ml



#6 2-bromonaphthalene

R.T.: 7.335 min
Delta R.T.: 0.002 min
Response: 1076893
Conc: 17.16 µg/ml



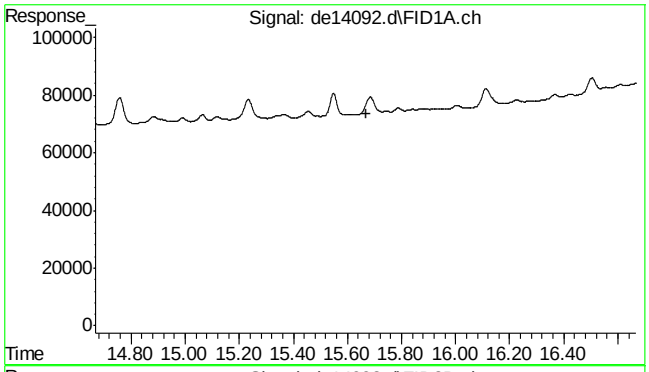
#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: -0.002 min
Response: 1675876
Conc: 16.36 µg/ml

9.1.1

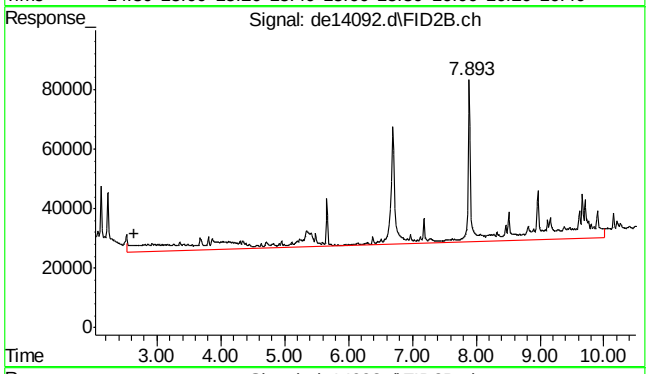
9

SGS ACCUTEST MC45611



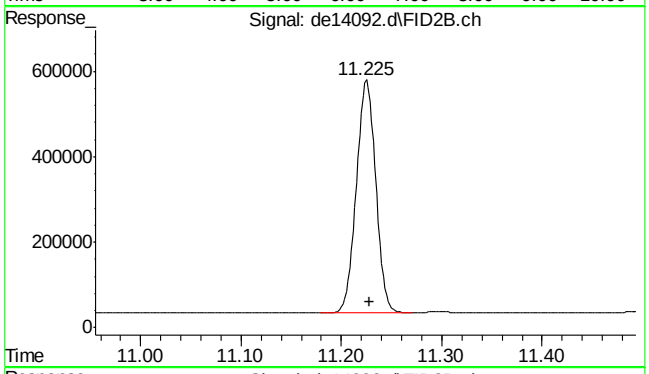
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



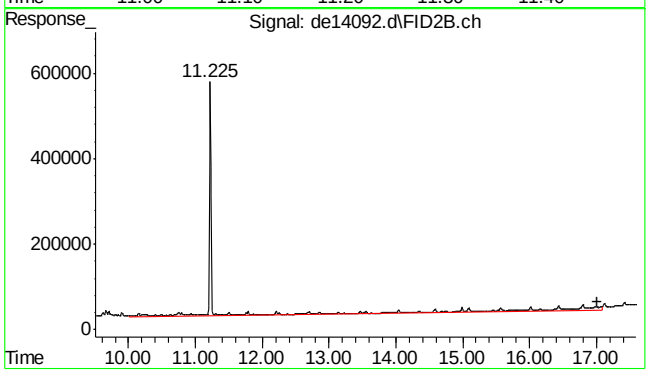
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1168928
Conc: 15.82 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 729822
Conc: 12.90 µg/ml



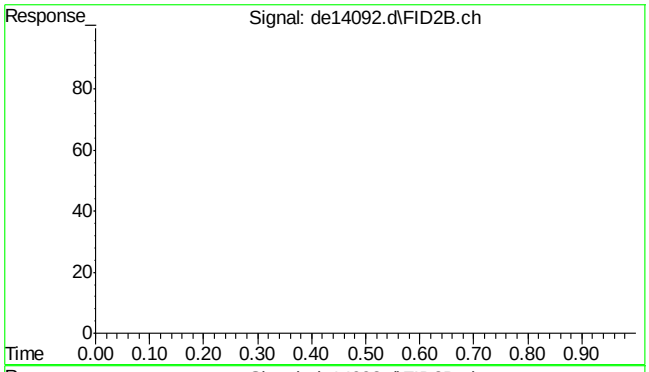
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 952427
Conc: 14.26 µg/ml m

9.1.1

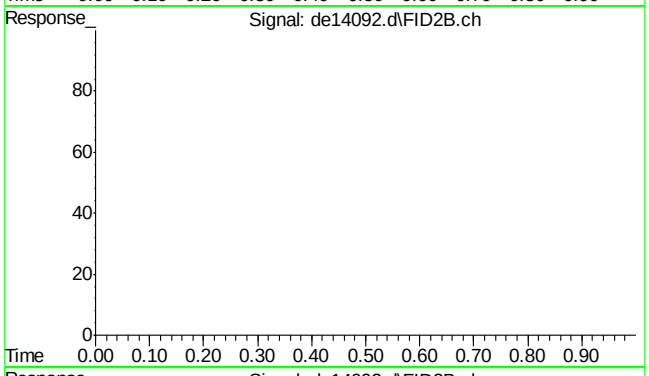
9

SGS ACCUTEST MC45611



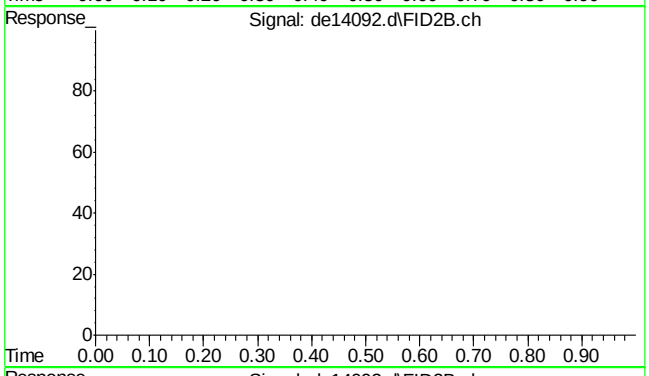
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



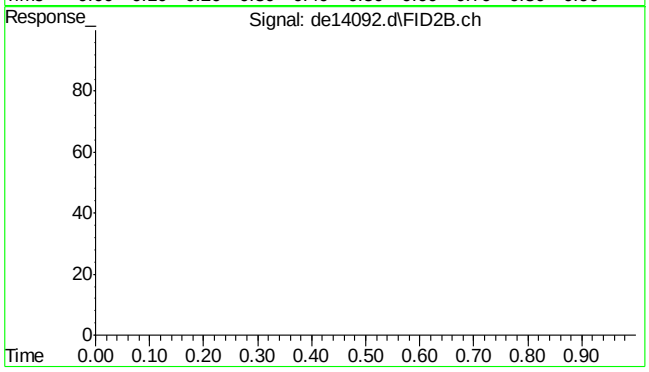
#43 bht

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\DE160502aEPH\
Data File : de14008.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 2:37 pm
Operator : thomasa
Sample : mc45611-2a,op47292
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:51:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	1740480	18.871 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 94.35%#		
6) s 2-bromonaphthalene	7.423	1203423	19.177 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 95.88%#		
11) s o-terphenyl	9.958	1676814	16.371 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 81.85%#		
35) s 1-chlorooctadecane	11.227	702452	12.416 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 62.08%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2582090	26.293 µg/mlm
25) h c-9	2.648	797629	10.797 µg/mlm
41) h c-36	17.008	832918	12.468 µg/mlm

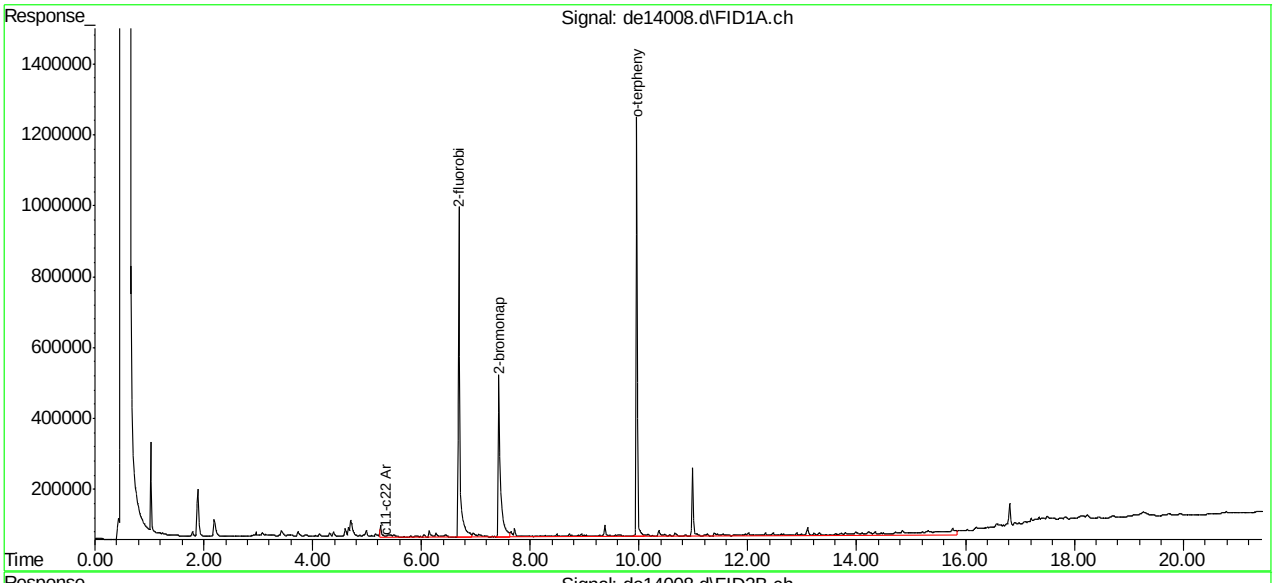
(f)=RT Delta > 1/2 Window (m)=manual int.

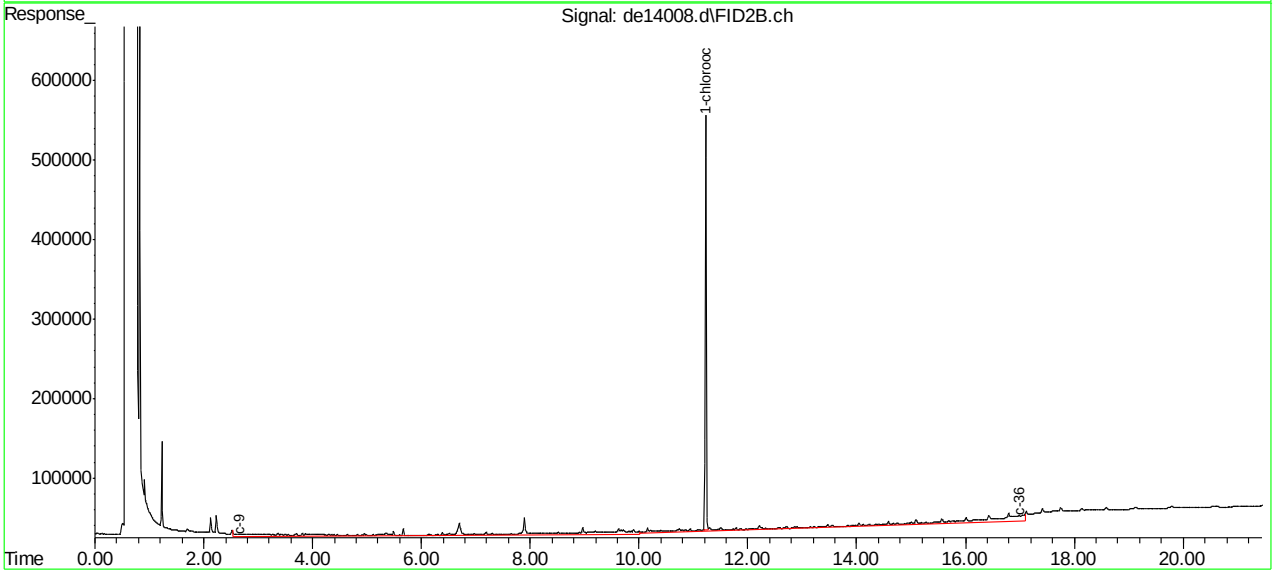
Quantitation Report (QT Reviewed)

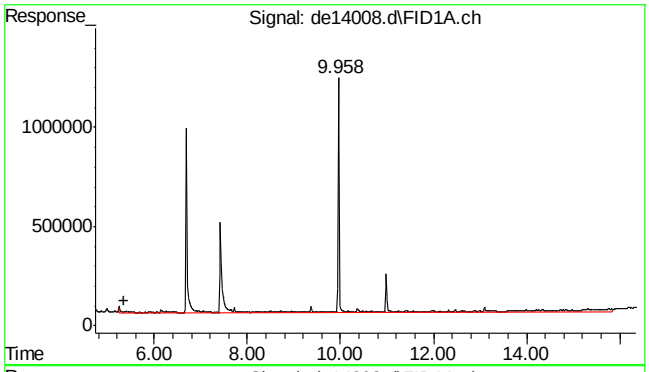
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14008.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 2:37 pm
Operator : thomasa
Sample : mc45611-2a,op47292
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:51:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

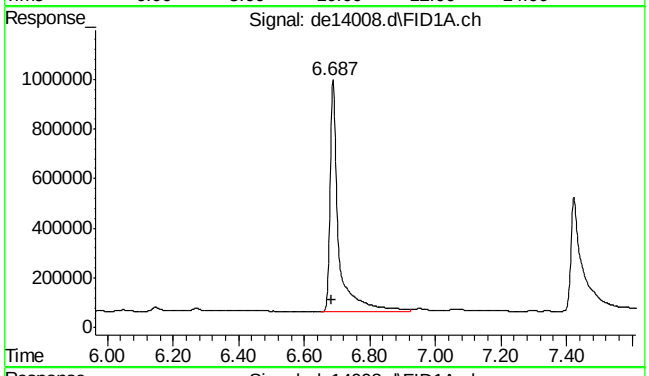






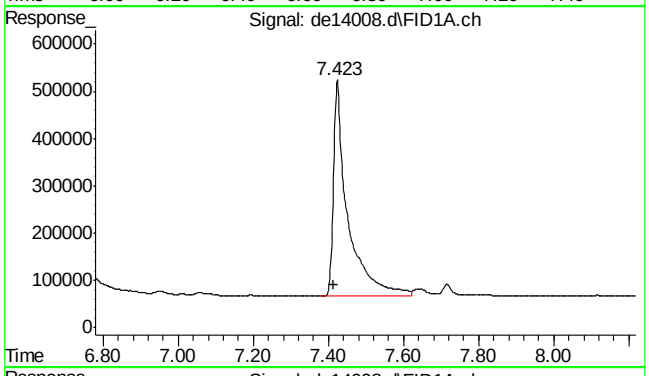
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2582090
Conc: 26.29 µg/ml m



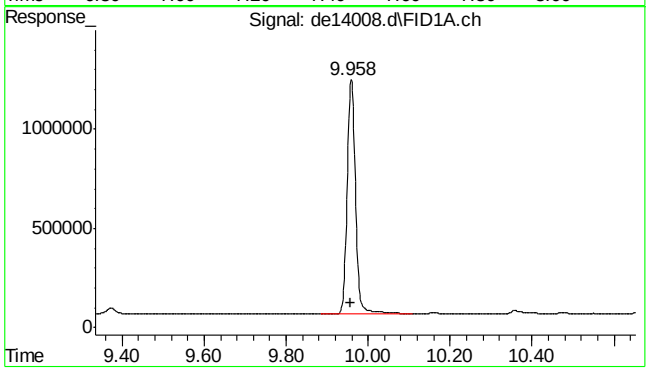
#4 2-fluorobiphenyl

R.T.: 6.687 min
Delta R.T.: 0.005 min
Response: 1740480
Conc: 18.87 µg/ml



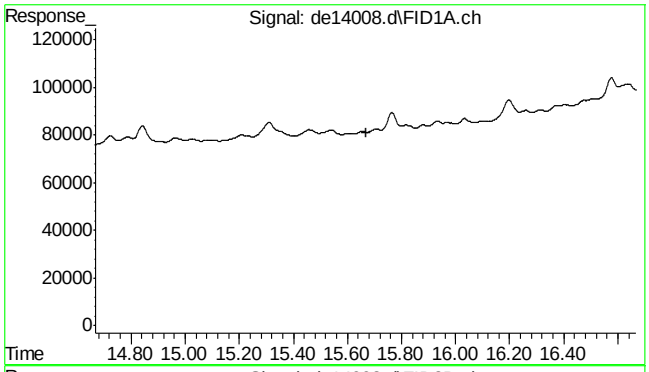
#6 2-bromonaphthalene

R.T.: 7.423 min
Delta R.T.: 0.008 min
Response: 1203423
Conc: 19.18 µg/ml



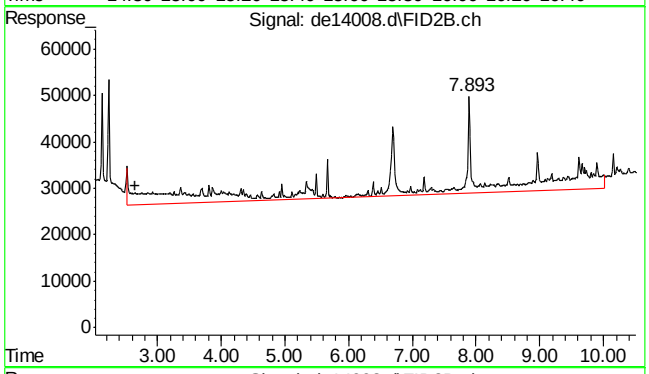
#11 o-terphenyl

R.T.: 9.958 min
Delta R.T.: 0.000 min
Response: 1676814
Conc: 16.37 µg/ml



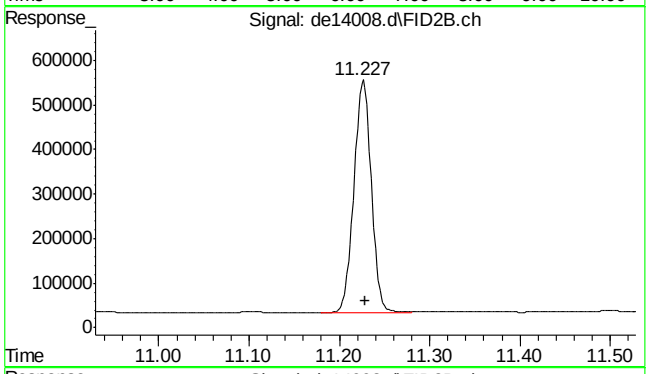
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



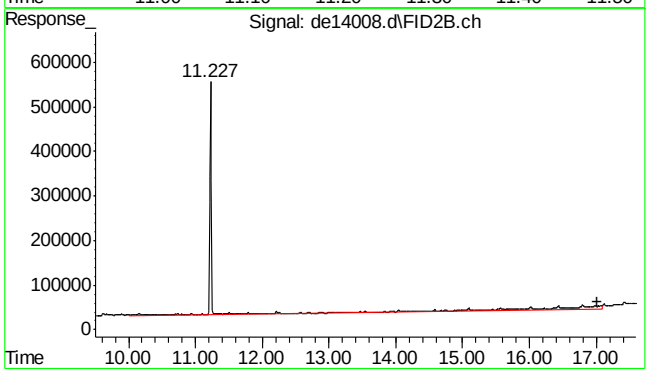
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 797629
Conc: 10.80 µg/ml m



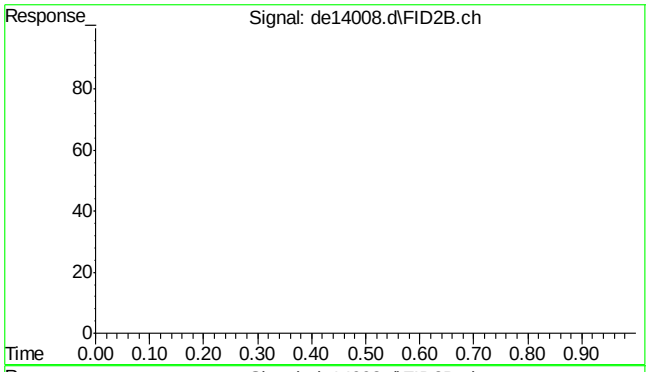
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 702452
Conc: 12.42 µg/ml



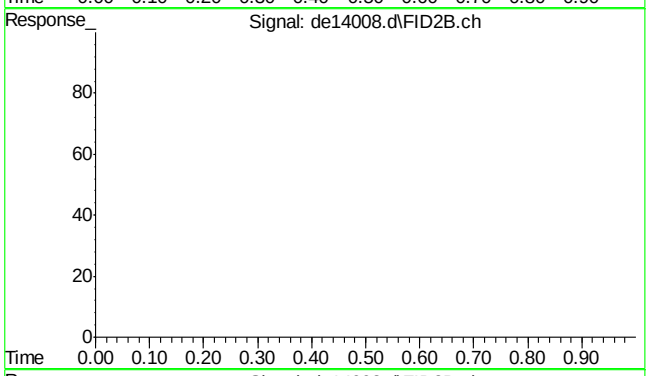
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 832918
Conc: 12.47 µg/ml m



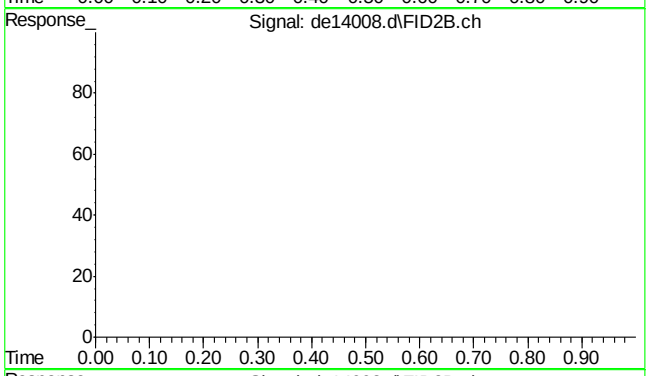
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



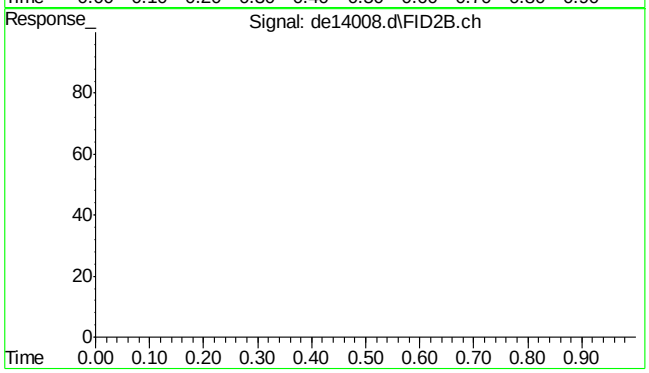
#43 bht

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\DE160502aEPH\
Data File : de14005.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 1:14 pm
Operator : thomasa
Sample : op47292-mb
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:45:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	1989236	21.568 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 107.84%#	
6) s 2-bromonaphthalene	7.418	1375429	21.917 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 109.58%#	
11) s o-terphenyl	9.957	1782875	17.406 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.03%#	
35) s 1-chlorooctadecane	11.225	529902	9.366 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 46.83%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2611663	26.594 µg/mlm
25) h c-9	2.648	807357	10.929 µg/mlm
41) h c-36	17.008	669087	10.015 µg/mlm

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

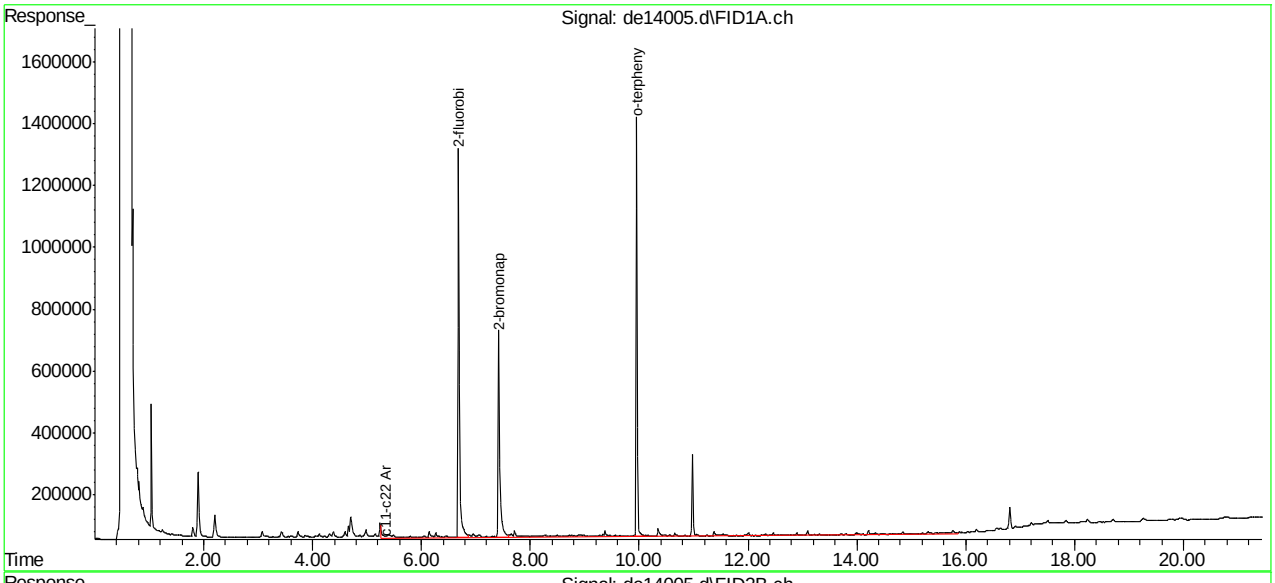
SGS ACCUTEST MC45611

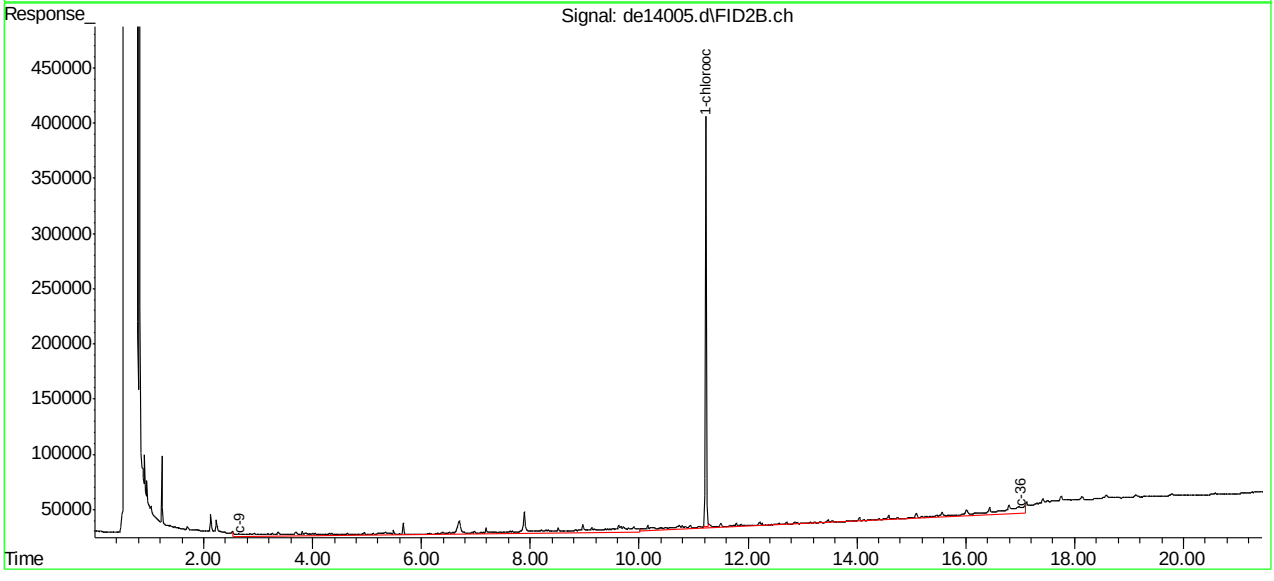
Quantitation Report (QT Reviewed)

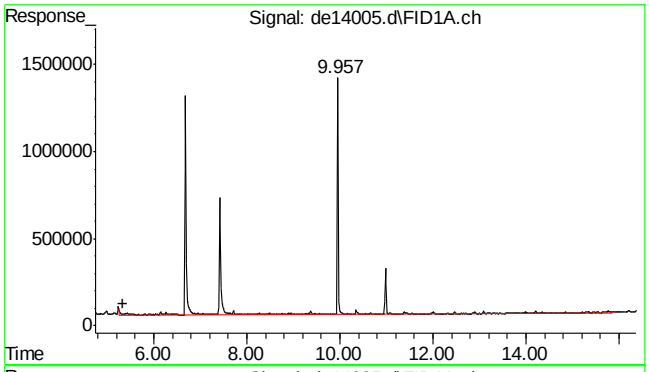
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14005.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 1:14 pm
Operator : thomasa
Sample : op47292-mb
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:45:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

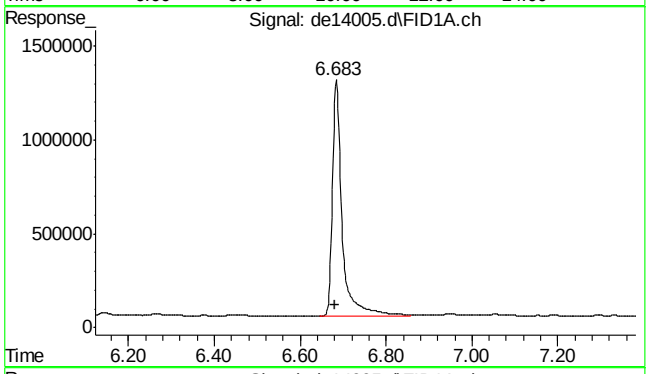






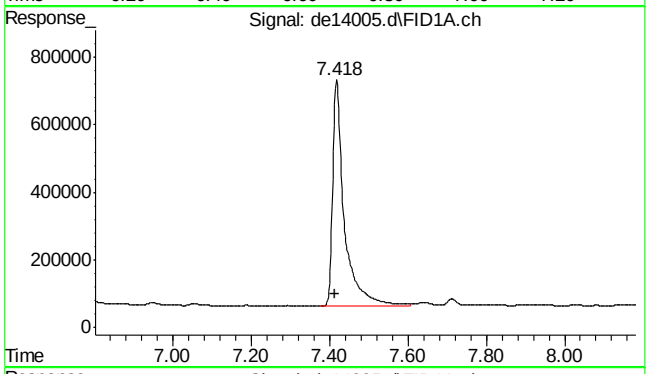
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2611663
Conc: 26.59 µg/ml m



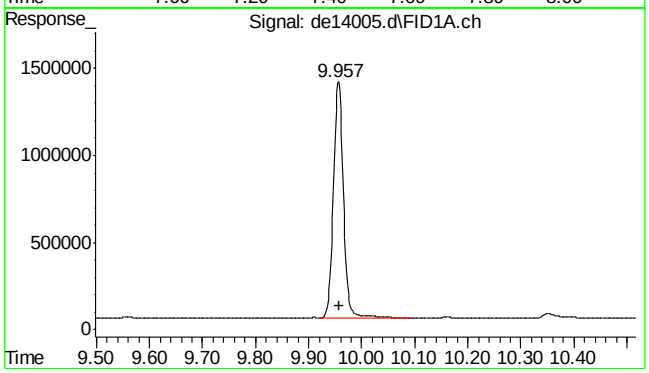
#4 2-fluorobiphenyl

R.T.: 6.683 min
Delta R.T.: 0.002 min
Response: 1989236
Conc: 21.57 µg/ml



#6 2-bromonaphthalene

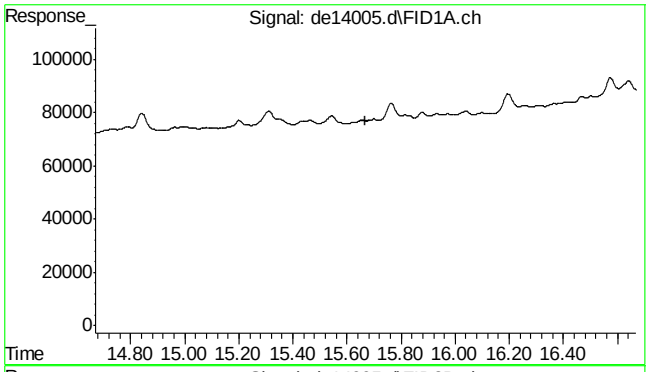
R.T.: 7.418 min
Delta R.T.: 0.003 min
Response: 1375429
Conc: 21.92 µg/ml



#11 o-terphenyl

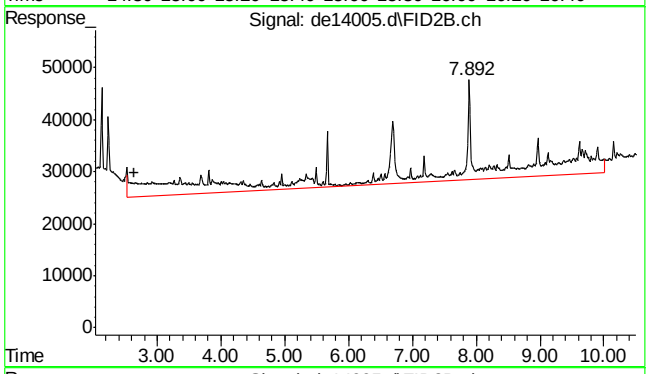
R.T.: 9.957 min
Delta R.T.: -0.002 min
Response: 1782875
Conc: 17.41 µg/ml

SGS ACCUTEST MC45611



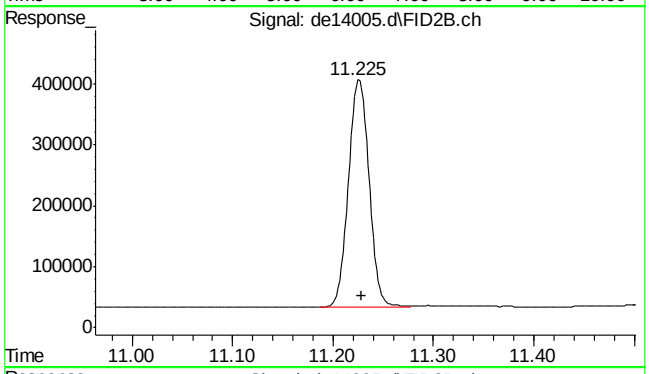
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



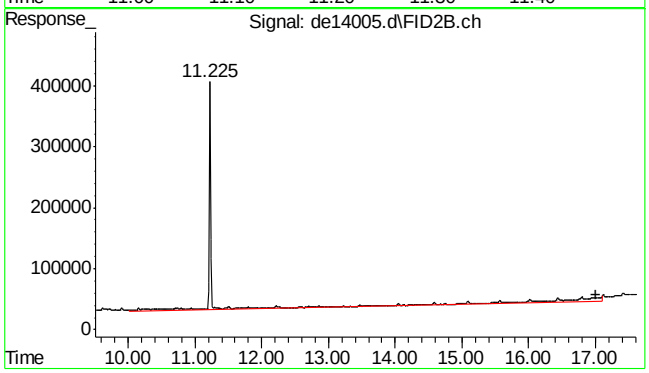
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 807357
Conc: 10.93 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 529902
Conc: 9.37 µg/ml



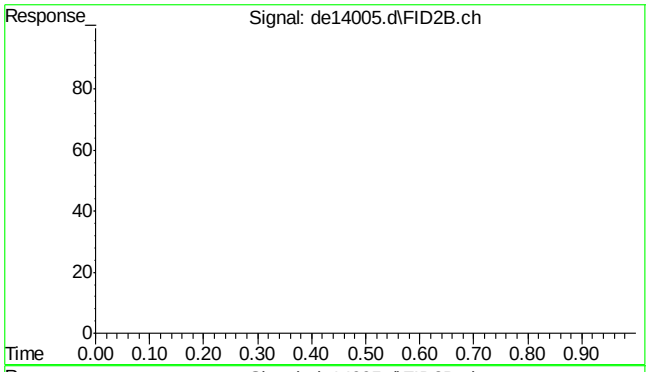
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 669087
Conc: 10.02 µg/ml m

9.2.1

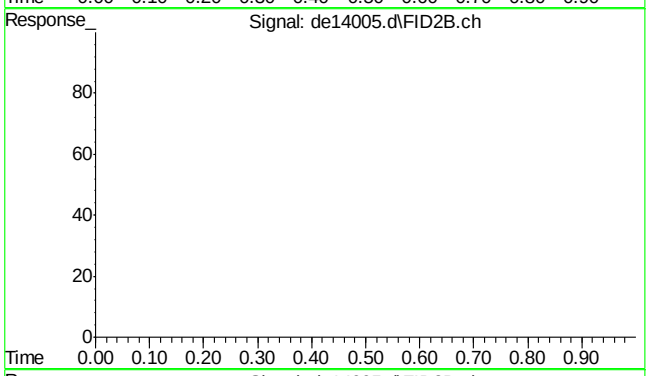
9

SGS ACCUTEST MC45611



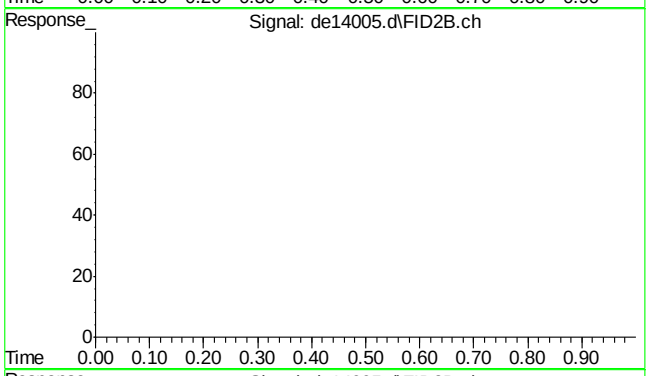
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



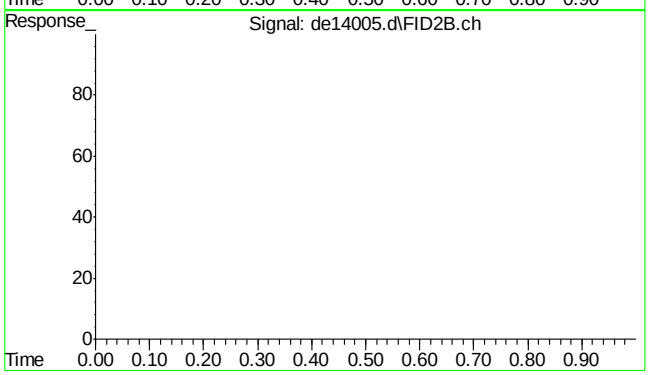
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45611

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14091.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 9:45 am
Operator : thomasa
Sample : op47424-mb
Misc : op47424,gde791,11.28,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:40:57 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1610014	17.457 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.28%#	
6) s 2-bromonaphthalene	7.333	1121390	17.869 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 89.34%#	
11) s o-terphenyl	9.872	1775321	17.333 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 86.66%#	
35) s 1-chlorooctadecane	11.227	812125	14.355 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 71.78%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2446069	24.908 µg/mlm
25) h c-9	2.648	1183749	16.024 µg/mlm
41) h c-36	17.008	946589	14.169 µg/mlm

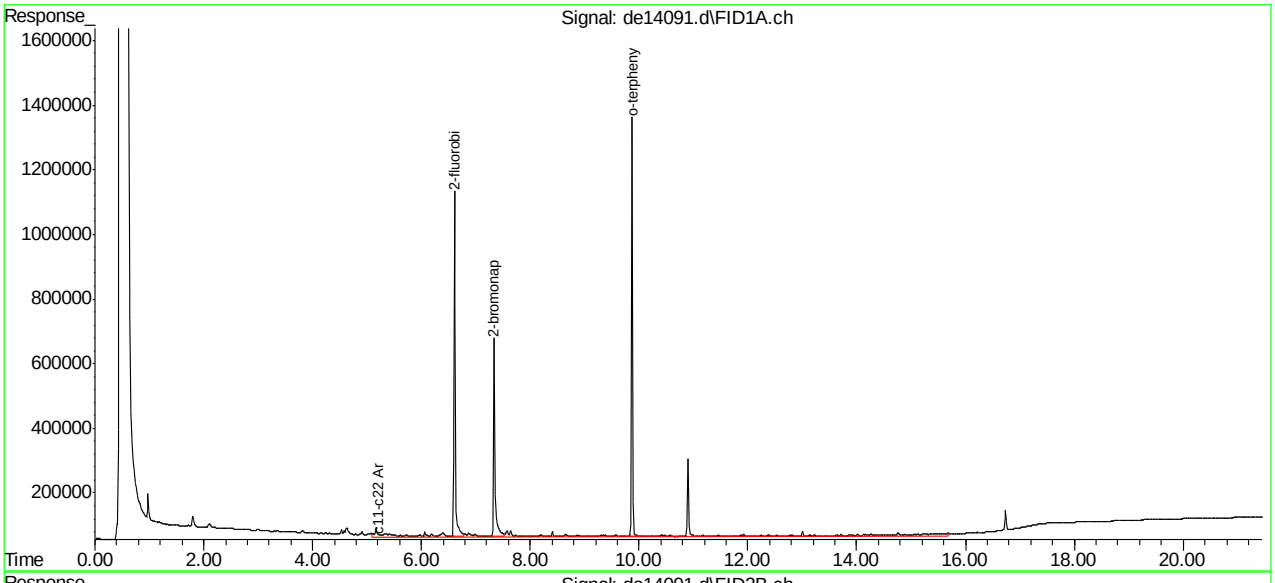
(f)=RT Delta > 1/2 Window (m)=manual int.

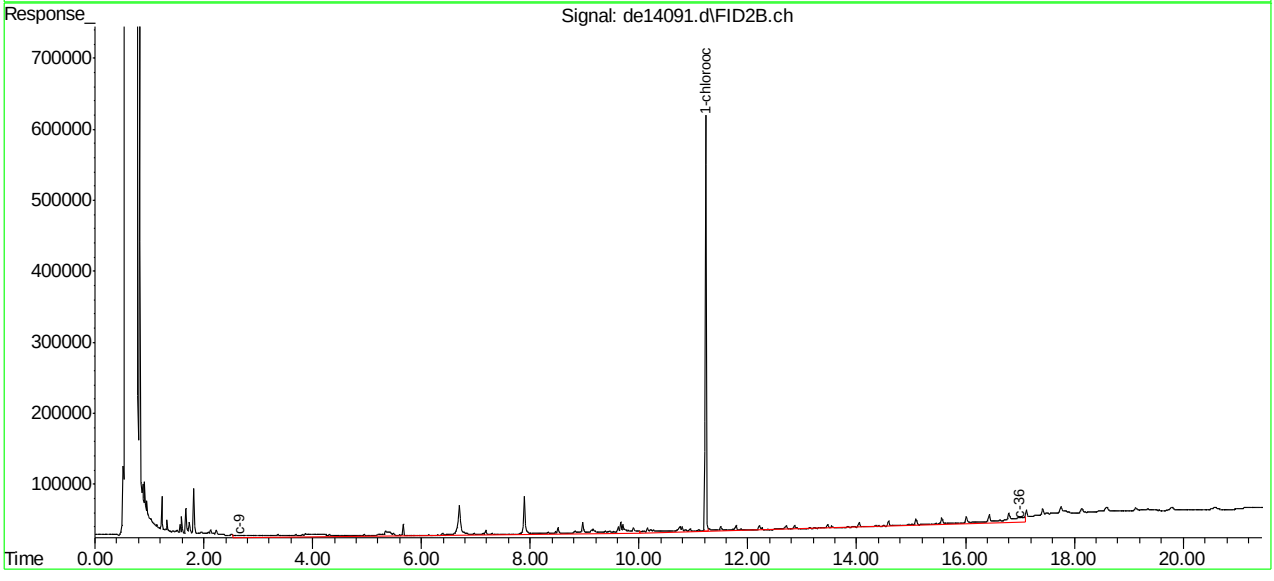
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14091.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 9:45 am
Operator : thomasa
Sample : op47424-mb
Misc : op47424,gde791,11.28,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

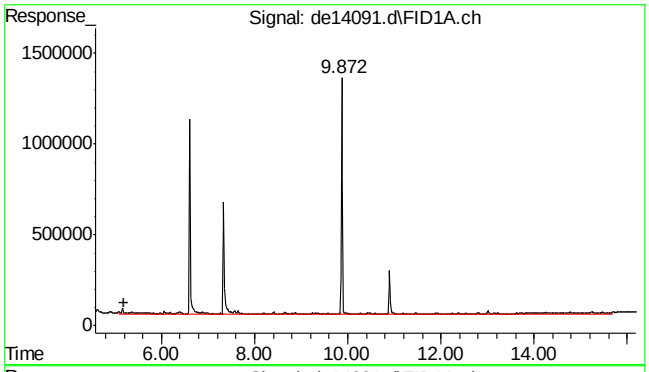
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:40:57 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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



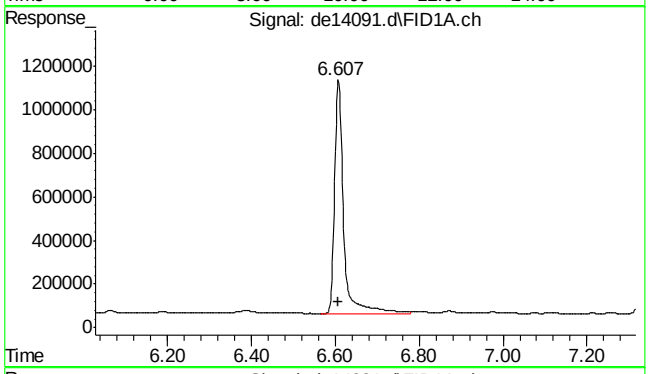


EPH160516W.M Mon May 16 15:25:22 2016 Page: 2



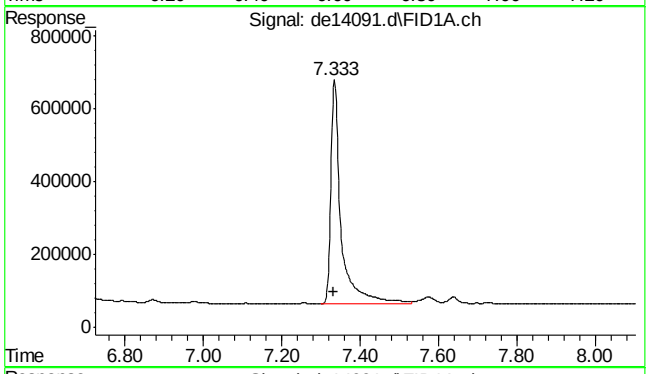
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2446069
Conc: 24.91 µg/ml m



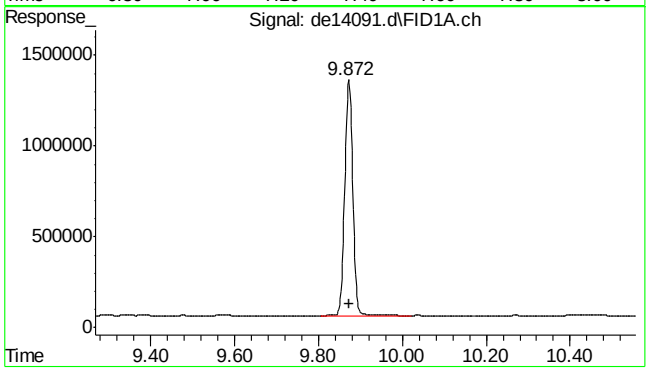
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.000 min
Response: 1610014
Conc: 17.46 µg/ml



#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 1121390
Conc: 17.87 µg/ml



#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: -0.002 min
Response: 1775321
Conc: 17.33 µg/ml

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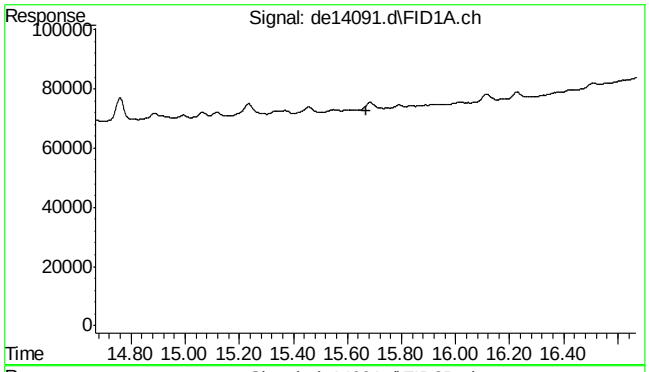
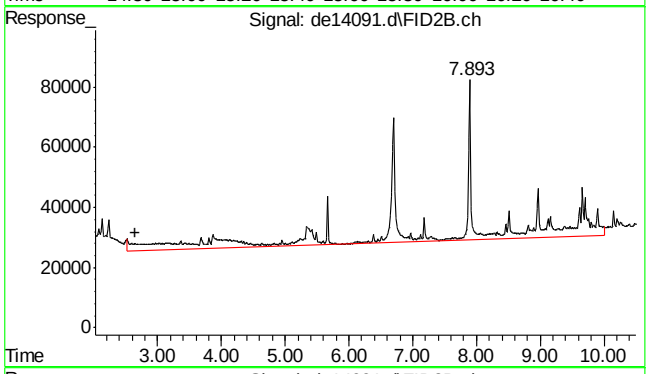


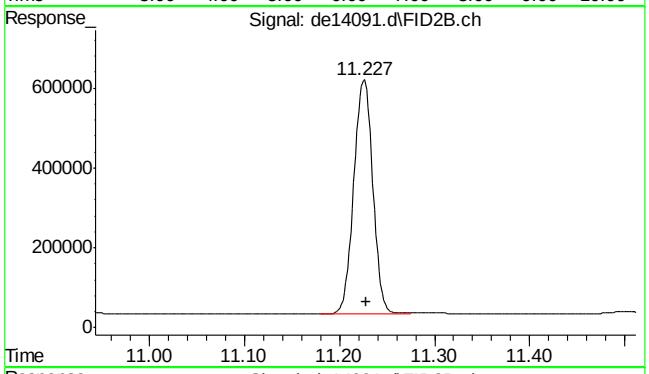
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



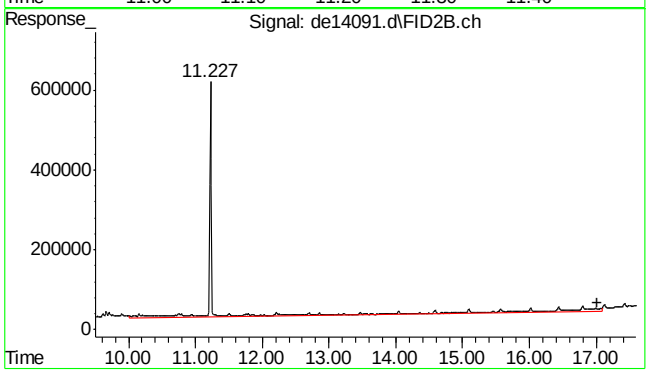
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1183749
Conc: 16.02 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 812125
Conc: 14.35 µg/ml



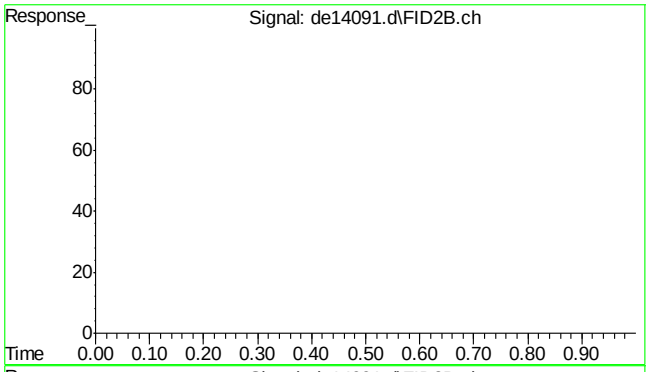
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 946589
Conc: 14.17 µg/ml m

9.2.2

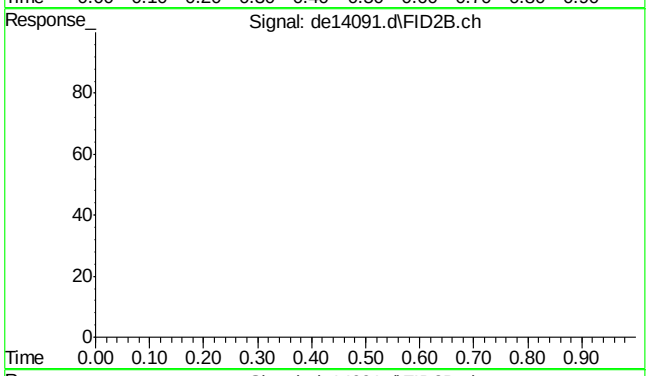
9

SGS ACCUTEST MC45611



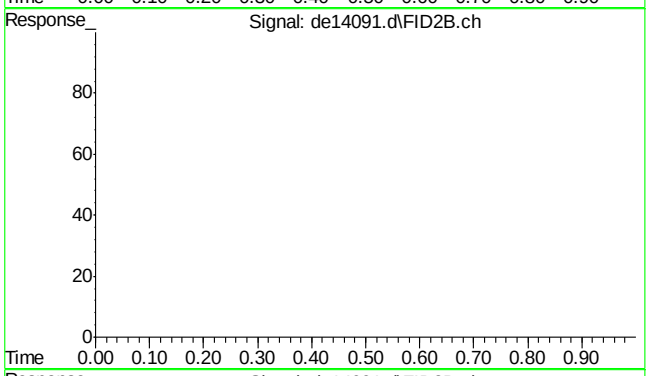
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



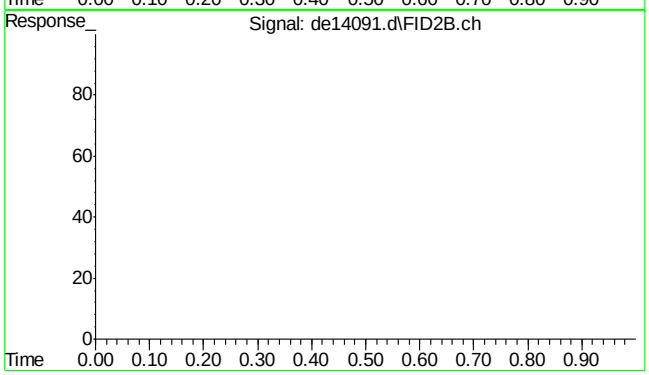
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/03/16 13:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	1512755	16.402 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	82.01%#
6) s 2-bromonaphthalene	7.422	883661	14.081 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	70.41%#
11) s o-terphenyl	9.960	1626423	15.879 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	79.39%#
35) s 1-chlorooctadecane	11.227	920008	16.262 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	81.31%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	38103504	388.001 µg/mlm
2) naphthalene	5.240	1326144	12.858 µg/ml
3) 2-methylnaphthalene	6.138	1406658	13.726 µg/ml
5) acenaphthylene	7.252	1550997	15.417 µg/ml
7) acenaphthene	7.492	1777805	17.197 µg/ml
8) fluorene	8.142	1792554	17.649 µg/ml
9) phenanthrene	9.325	1909171	18.761 µg/ml
10) anthracene	9.383	2227005	22.957 µg/ml
12) fluoranthene	10.833	2260504	22.618 µg/ml
13) pyrene	11.092	2289955	22.569 µg/ml
14) benzo(a)anthracene	12.657	2333180	24.134 µg/ml
15) chrysene	12.705	2343537	24.076 µg/ml
16) benzo(B)fluoranthene	13.958	2419299	24.437 µg/mlm
17) benzo(k)fluoranthene	13.987	2250947	23.819 µg/mlm
18) benzo(a)pyrene	14.293	2300579	24.888 µg/ml
19) indeno(1,2,3-cd)pyrene	15.440	2342886	24.751 µg/mlm
20) dibenzo(ah)anthracene	15.480	2270697	24.844 µg/mlm
21) benzo(ghi)perylene	15.663	2314388	25.123 µg/ml
25) h c-9	2.648	704876	9.542 µg/mlm
26) h c-10	3.815	880968	11.926 µg/ml
27) naphthalene #2	5.490	6409	0.080 µg/ml
28) c-12	5.665	1069117	14.473 µg/ml
29) 2-methylnaphthalene #2	6.383	5111	0.063 µg/ml
30) c-14	7.183	1273673	17.242 µg/ml
31) c-16	8.513	1440016	19.493 µg/ml
32) c-18	9.707	1634857	22.131 µg/ml
33) c-19	10.263	1712909	25.640 µg/ml
34) c-20	10.793	1756337	26.290 µg/ml
36) c-22	11.788	1814691	27.163 µg/ml
37) c-24	12.707	1798409	26.920 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	13.560	1761207	26.363	µg/ml
39)		c-28	14.352	1741523	26.068	µg/ml
40)	h	c-30	15.098	1709246	25.585	µg/ml
41)	h	c-36	17.008	1241209	18.579	µg/mlm

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

9.3.1

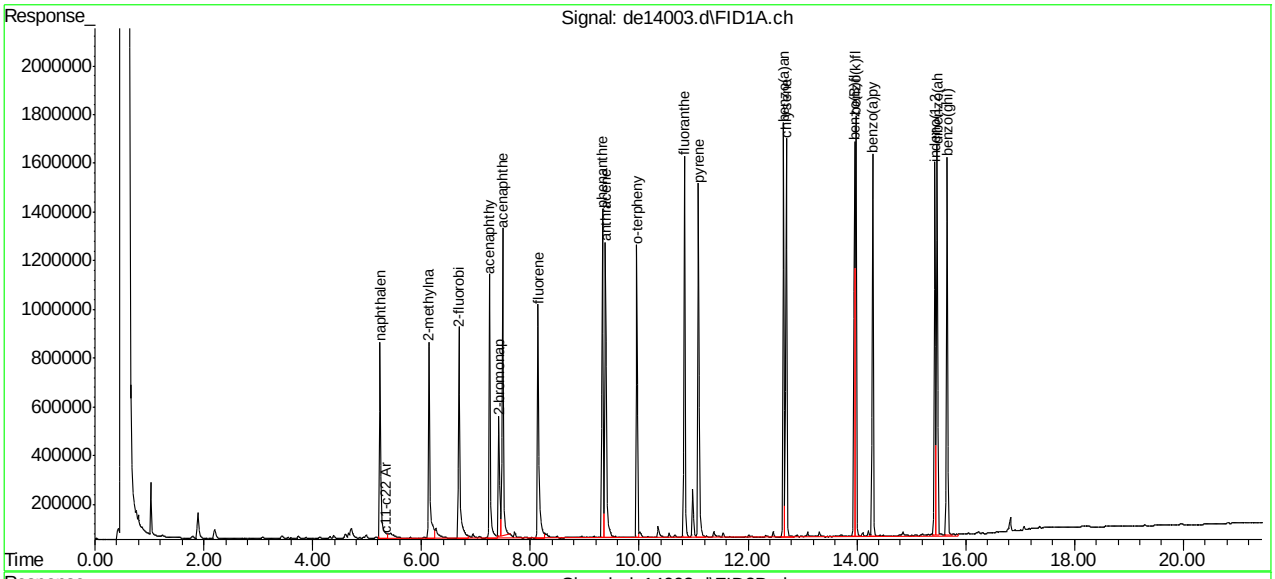
9

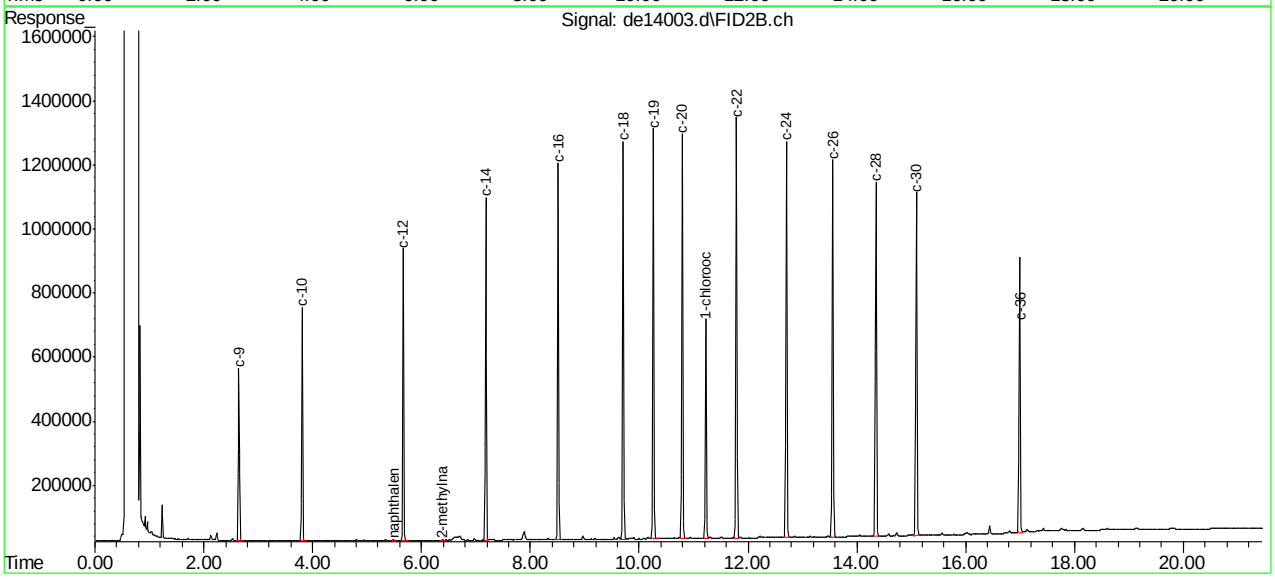
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

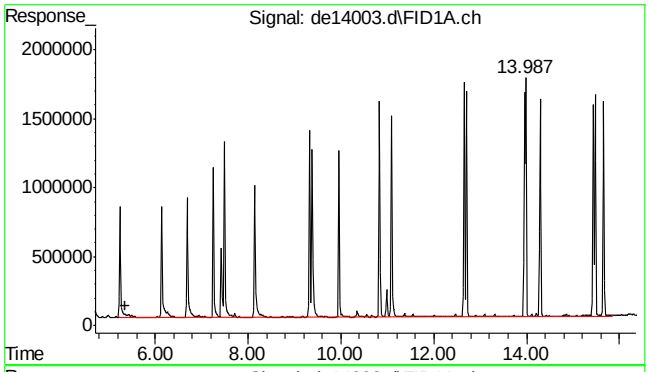
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



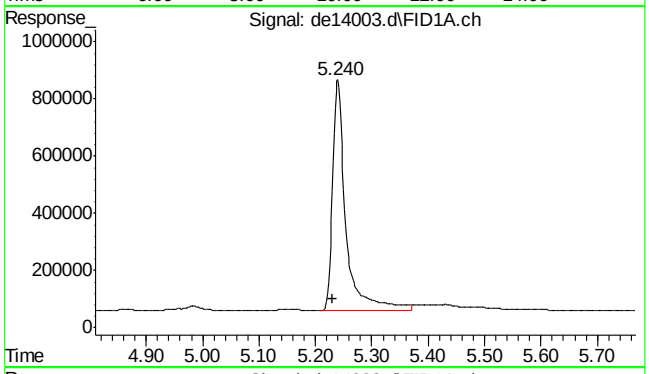


SGS ACCUTEST MC45611



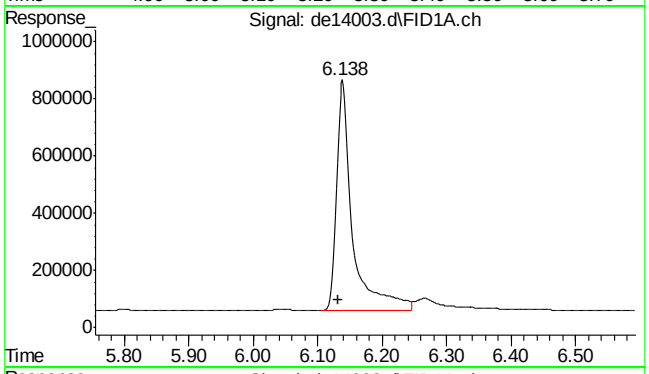
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 38103504
Conc: 388.00 µg/ml m



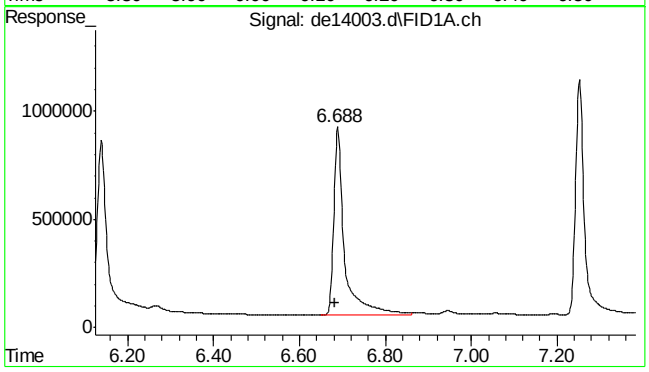
#2 naphthalene

R.T.: 5.240 min
Delta R.T.: 0.010 min
Response: 1326144
Conc: 12.86 µg/ml



#3 2-methylnaphthalene

R.T.: 6.138 min
Delta R.T.: 0.007 min
Response: 1406658
Conc: 13.73 µg/ml



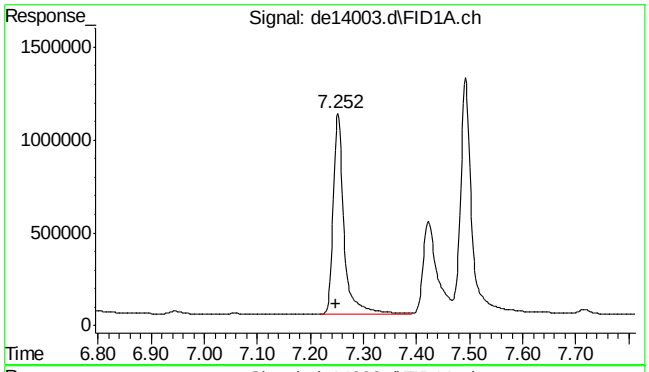
#4 2-fluorobiphenyl

R.T.: 6.688 min
Delta R.T.: 0.007 min
Response: 1512755
Conc: 16.40 µg/ml

9.3.1

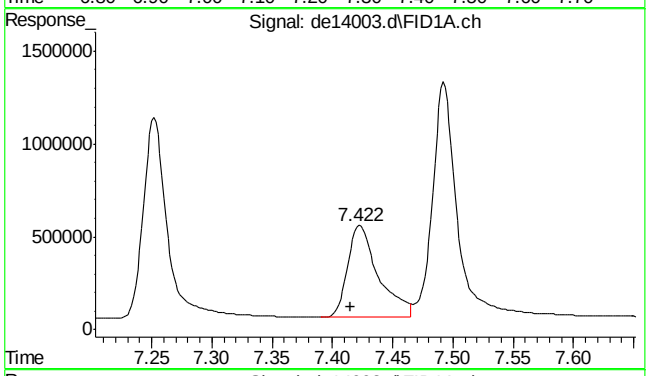
9

SGS ACCUTEST MC45611



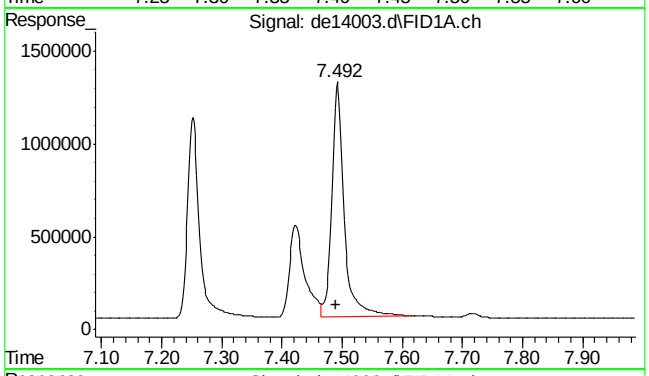
#5 acenaphthylene

R.T.: 7.252 min
Delta R.T.: 0.003 min
Response: 1550997
Conc: 15.42 µg/ml



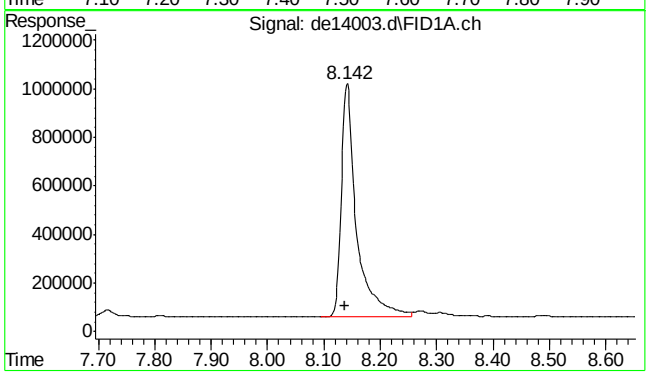
#6 2-bromonaphthalene

R.T.: 7.422 min
Delta R.T.: 0.007 min
Response: 883661
Conc: 14.08 µg/ml



#7 acenaphthene

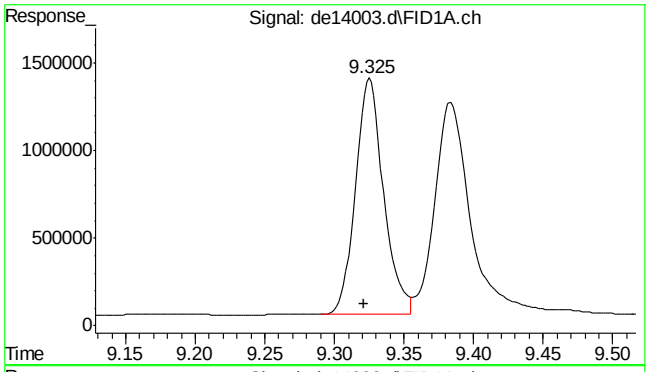
R.T.: 7.492 min
Delta R.T.: 0.002 min
Response: 1777805
Conc: 17.20 µg/ml



#8 fluorene

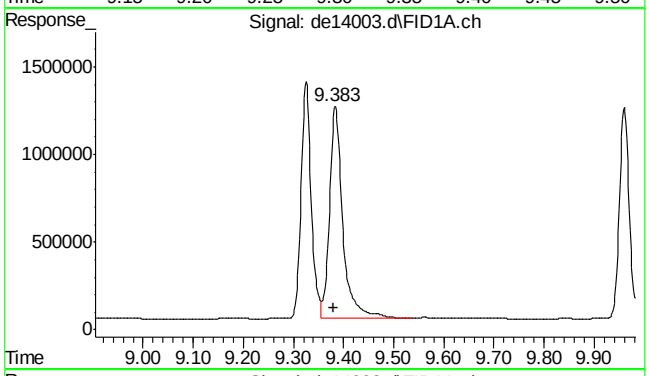
R.T.: 8.142 min
Delta R.T.: 0.005 min
Response: 1792554
Conc: 17.65 µg/ml

SGS ACCUTEST MC45611



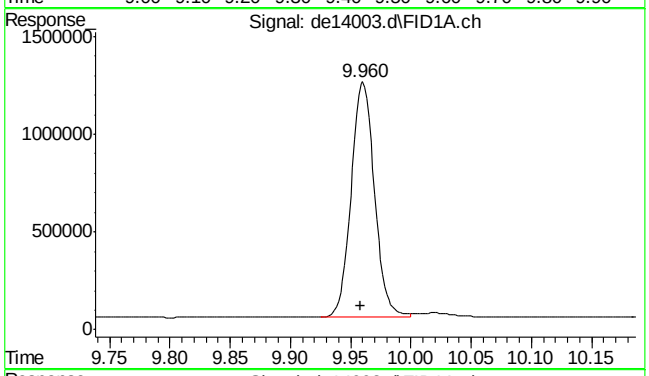
#9 phenanthrene

R.T.: 9.325 min
Delta R.T.: 0.003 min
Response: 1909171
Conc: 18.76 µg/ml



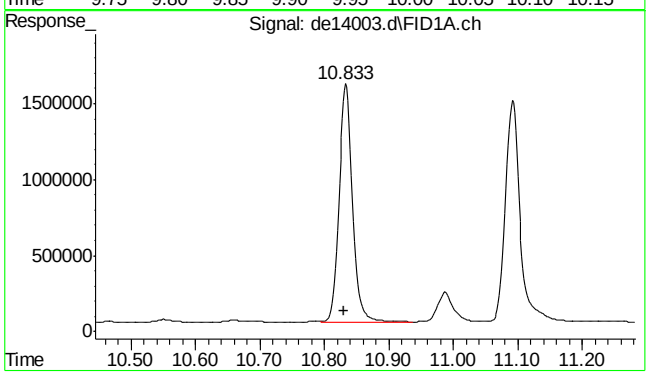
#10 anthracene

R.T.: 9.383 min
Delta R.T.: 0.003 min
Response: 2227005
Conc: 22.96 µg/ml



#11 o-terphenyl

R.T.: 9.960 min
Delta R.T.: 0.002 min
Response: 1626423
Conc: 15.88 µg/ml



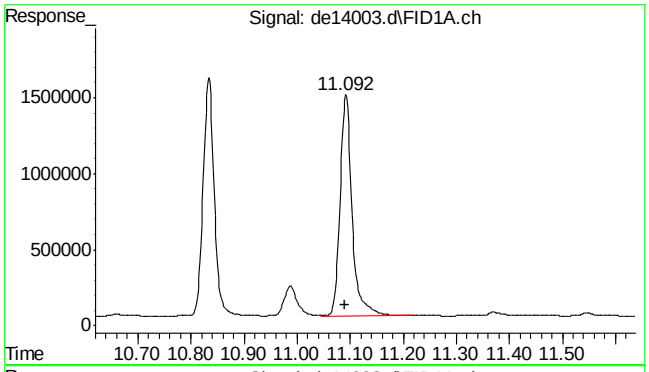
#12 fluoranthene

R.T.: 10.833 min
Delta R.T.: 0.003 min
Response: 2260504
Conc: 22.62 µg/ml

9.3.1

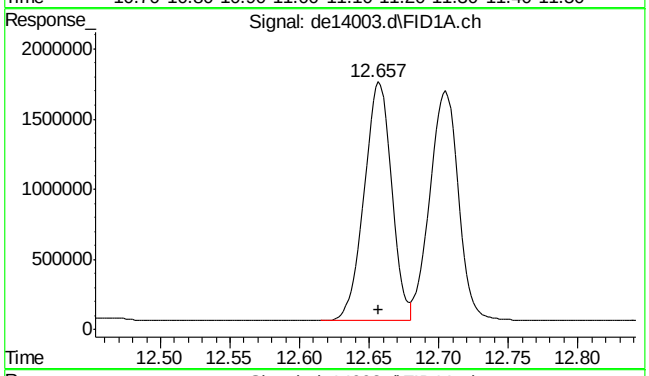
9

SGS ACCUTEST MC45611



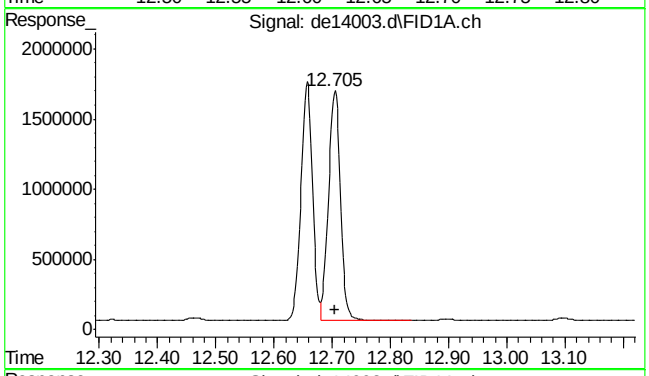
#13 pyrene

R.T.: 11.092 min
Delta R.T.: 0.002 min
Response: 2289955
Conc: 22.57 µg/ml



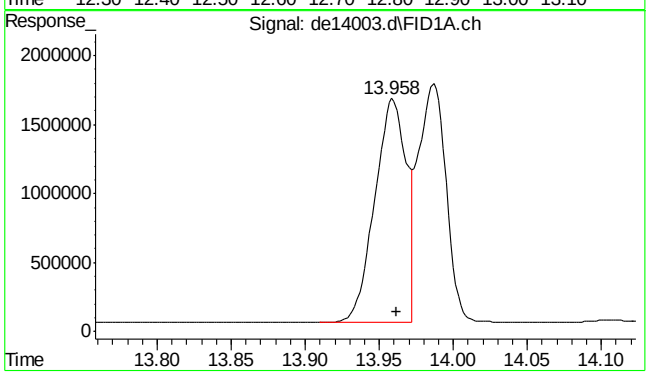
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 2333180
Conc: 24.13 µg/ml



#15 chrysene

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 2343537
Conc: 24.08 µg/ml



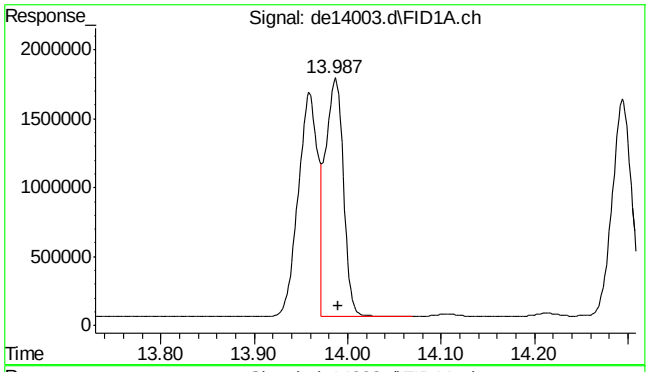
#16 benzo(B)fluoranthene

R.T.: 13.958 min
Delta R.T.: -0.003 min
Response: 2419299
Conc: 24.44 µg/ml m

9.3.1

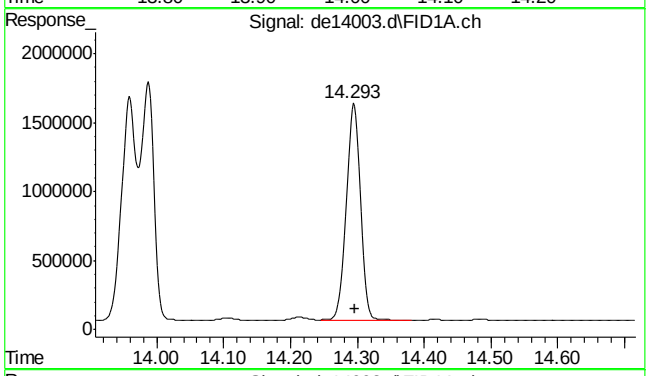
9

SGS ACCUTEST MC45611



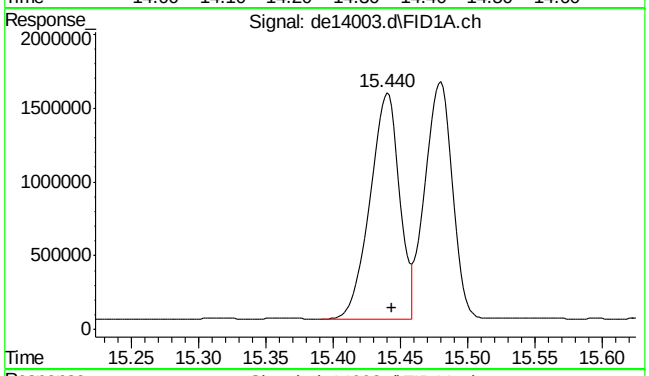
#17 benzo(k)fluoranthene

R.T.: 13.987 min
Delta R.T.: -0.003 min
Response: 2250947
Conc: 23.82 µg/ml m



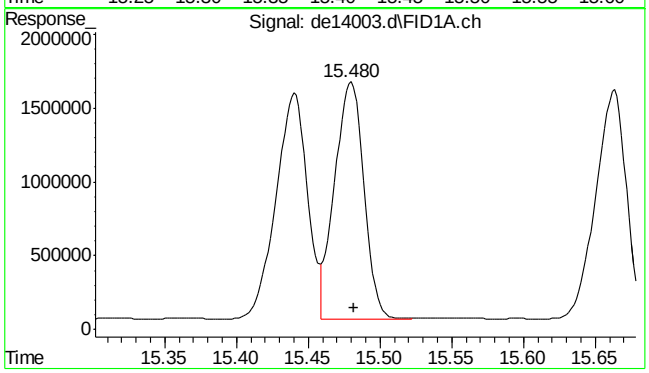
#18 benzo(a)pyrene

R.T.: 14.293 min
Delta R.T.: -0.003 min
Response: 2300579
Conc: 24.89 µg/ml



#19 indeno(1,2,3-cd)pyrene

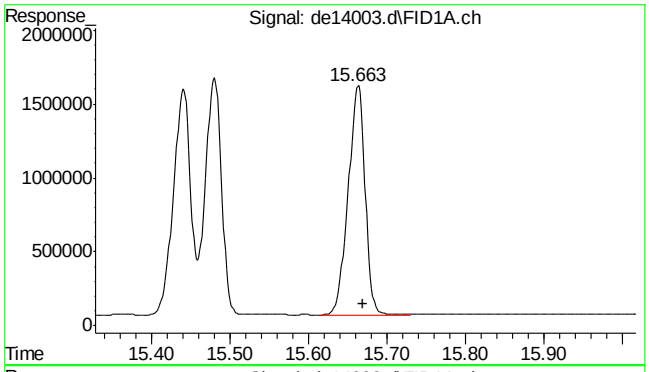
R.T.: 15.440 min
Delta R.T.: -0.003 min
Response: 2342886
Conc: 24.75 µg/ml m



#20 dibenzo(ah)anthracene

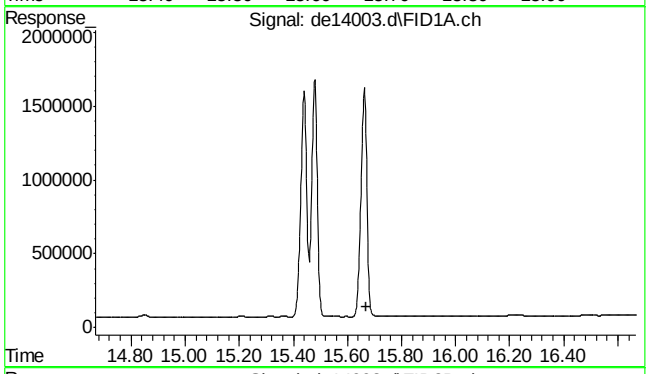
R.T.: 15.480 min
Delta R.T.: -0.002 min
Response: 2270697
Conc: 24.84 µg/ml m

SGS ACCUTEST MC45611



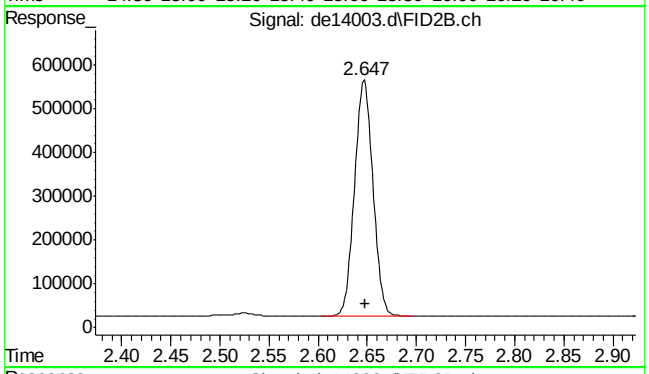
#21 benzo(ghi)perylene

R.T.: 15.663 min
Delta R.T.: -0.005 min
Response: 2314388
Conc: 25.12 µg/ml



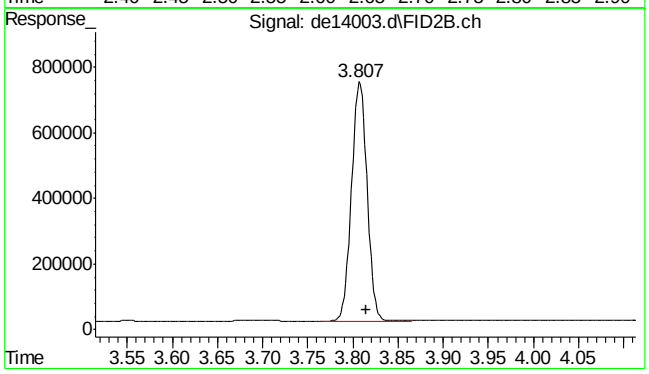
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

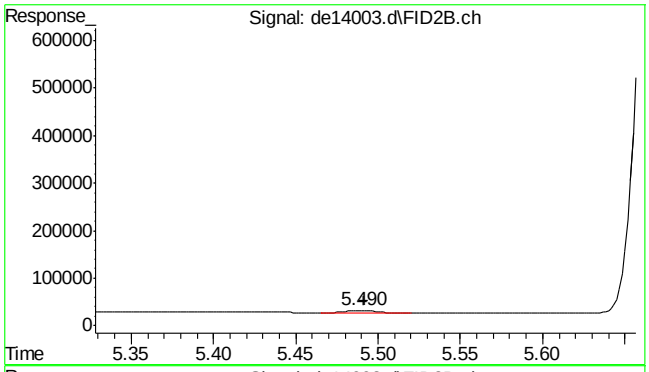
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 704876
Conc: 9.54 µg/ml m



#26 c-10

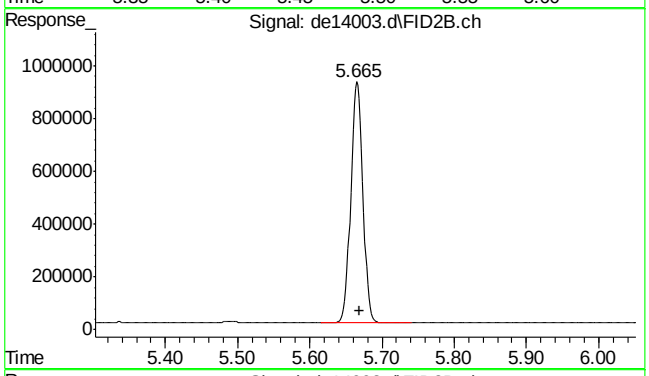
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 880968
Conc: 11.93 µg/ml

SGS ACCUTEST MC45611



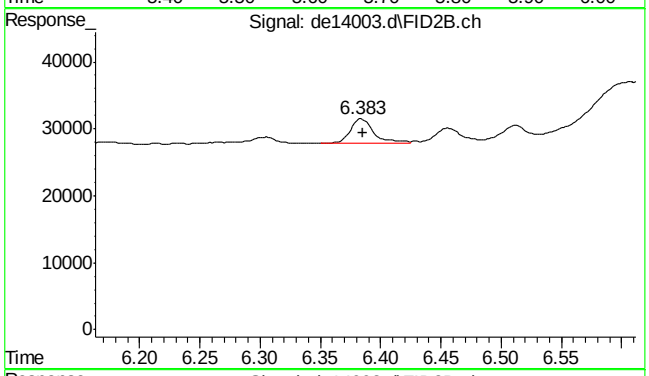
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: -0.002 min
Response: 6409
Conc: 0.08 µg/ml



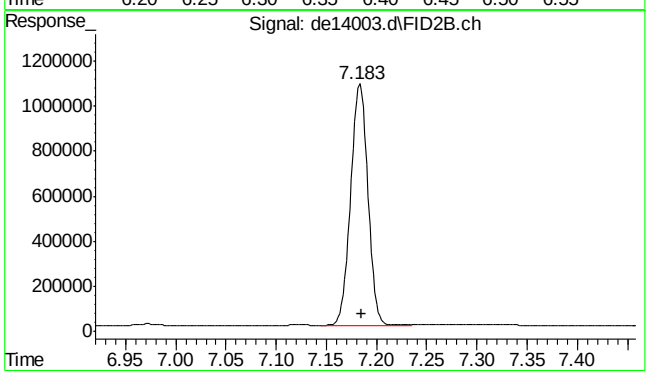
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 1069117
Conc: 14.47 µg/ml



#29 2-methylnaphthalene #2

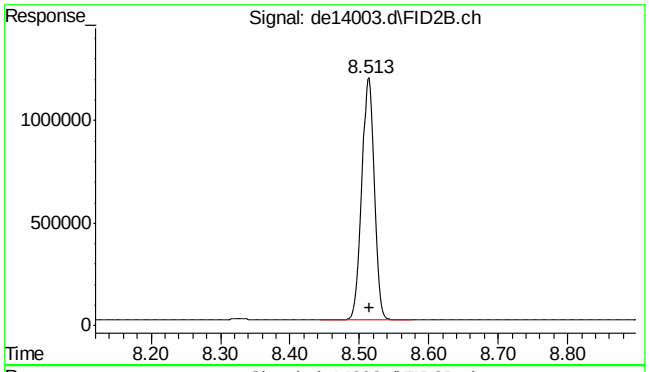
R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 5111
Conc: 0.06 µg/ml



#30 c-14

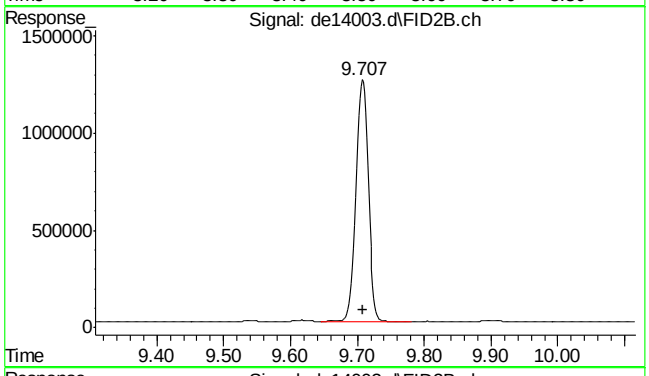
R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1273673
Conc: 17.24 µg/ml

SGS ACCUTEST MC45611



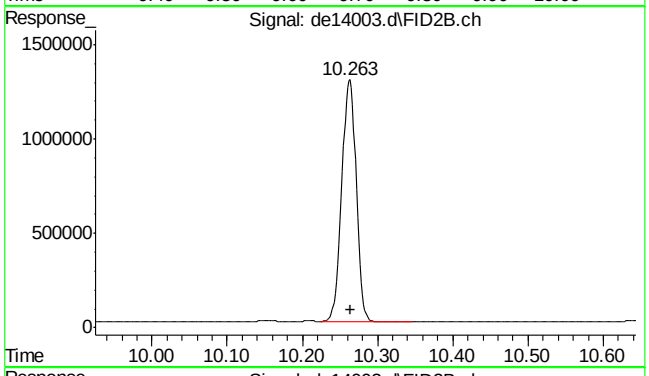
#31 c-16

R.T.: 8.513 min
Delta R.T.: -0.002 min
Response: 1440016
Conc: 19.49 µg/ml



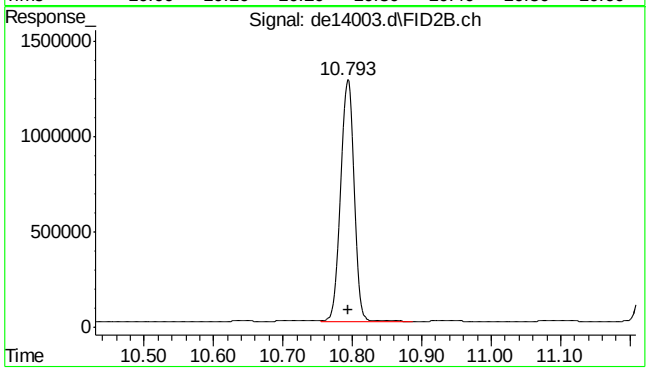
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1634857
Conc: 22.13 µg/ml



#33 c-19

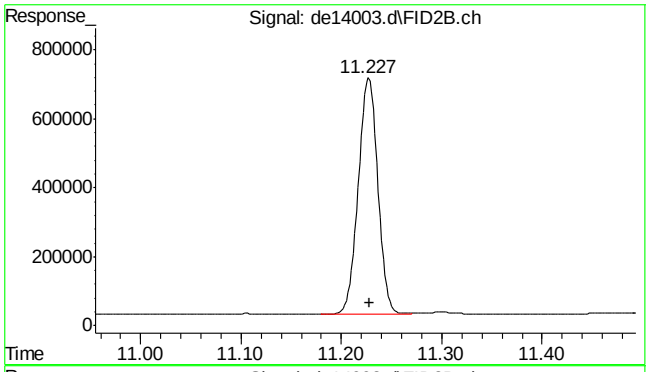
R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 1712909
Conc: 25.64 µg/ml



#34 c-20

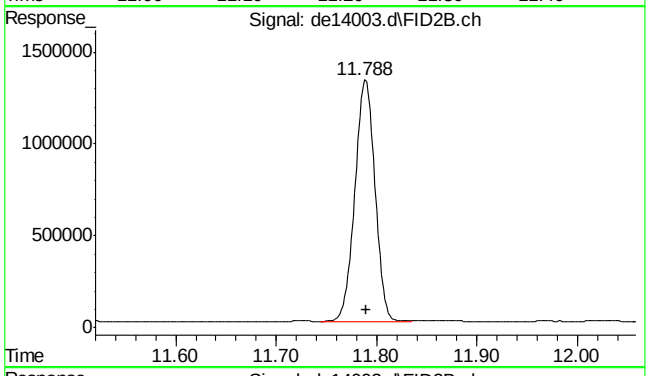
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 1756337
Conc: 26.29 µg/ml

SGS ACCUTEST MC45611



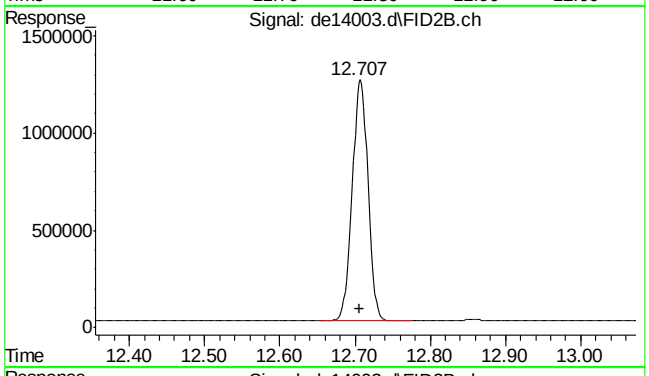
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 920008
Conc: 16.26 µg/ml



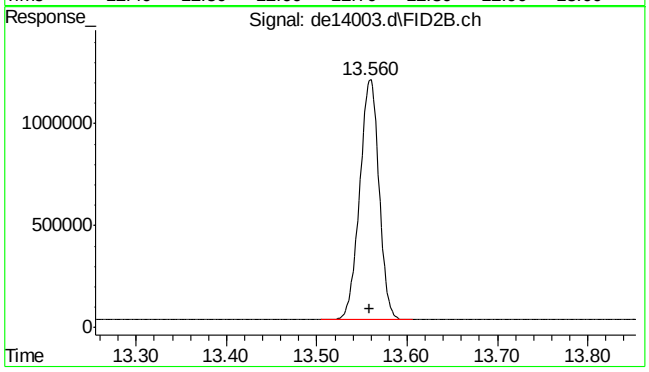
#36 c-22

R.T.: 11.788 min
Delta R.T.: -0.002 min
Response: 1814691
Conc: 27.16 µg/ml



#37 c-24

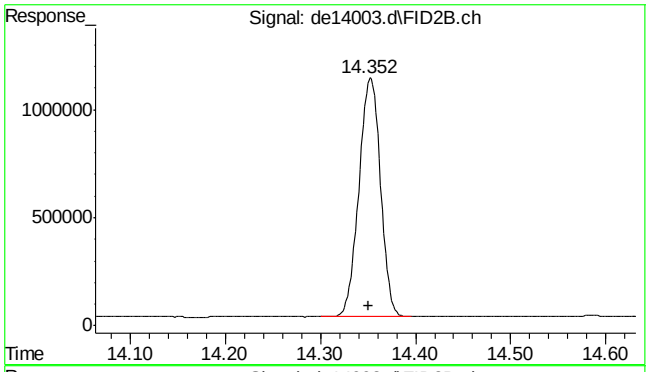
R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 1798409
Conc: 26.92 µg/ml



#38 c-26

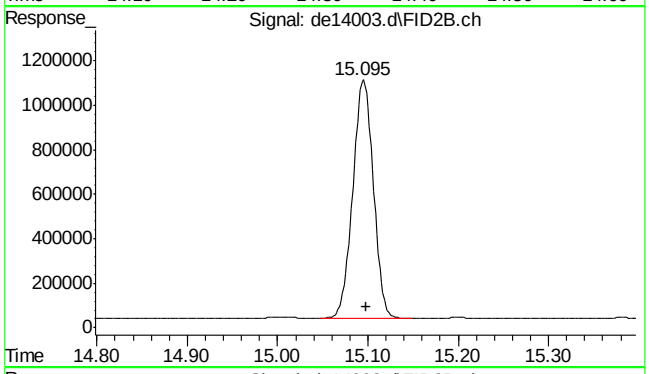
R.T.: 13.560 min
Delta R.T.: 0.002 min
Response: 1761207
Conc: 26.36 µg/ml

SGS ACCUTEST MC45611



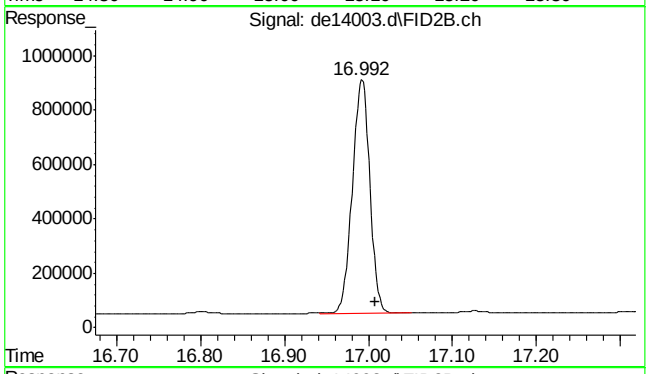
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.002 min
Response: 1741523
Conc: 26.07 µg/ml



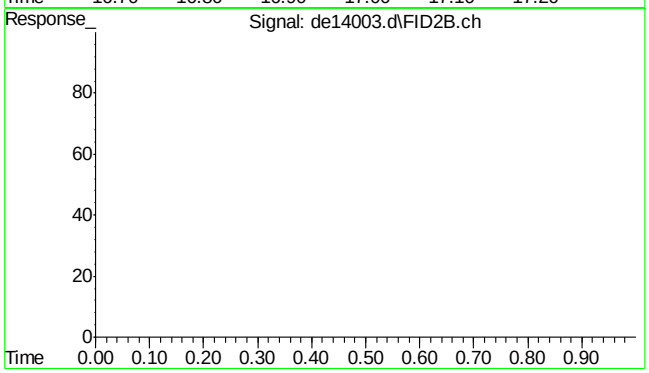
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1709246
Conc: 25.59 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1241209
Conc: 18.58 µg/ml m



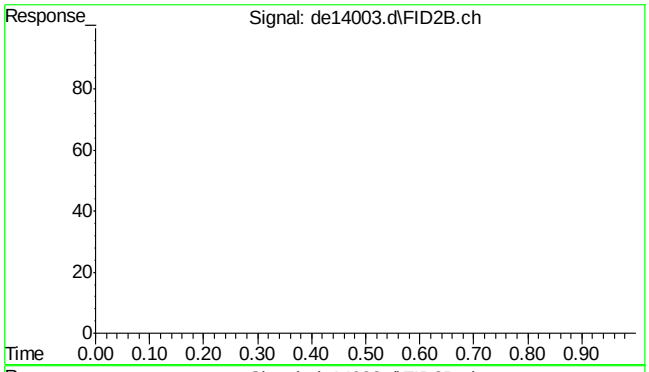
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.1

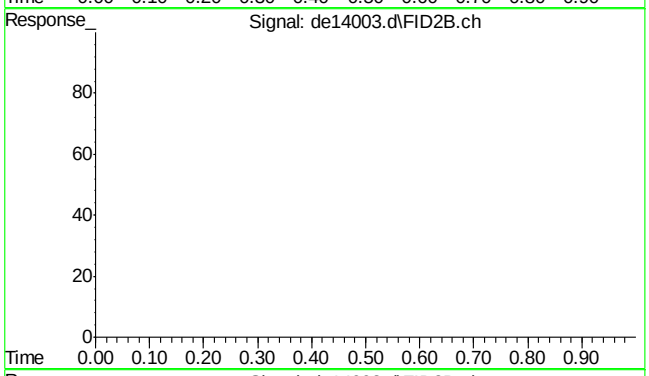
9

SGS ACCUTEST MC45611



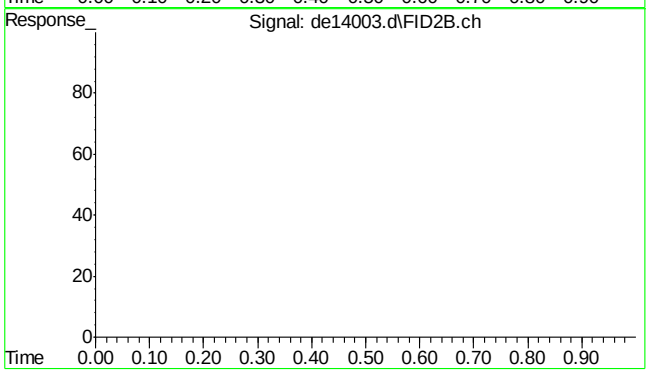
#43 bht

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.

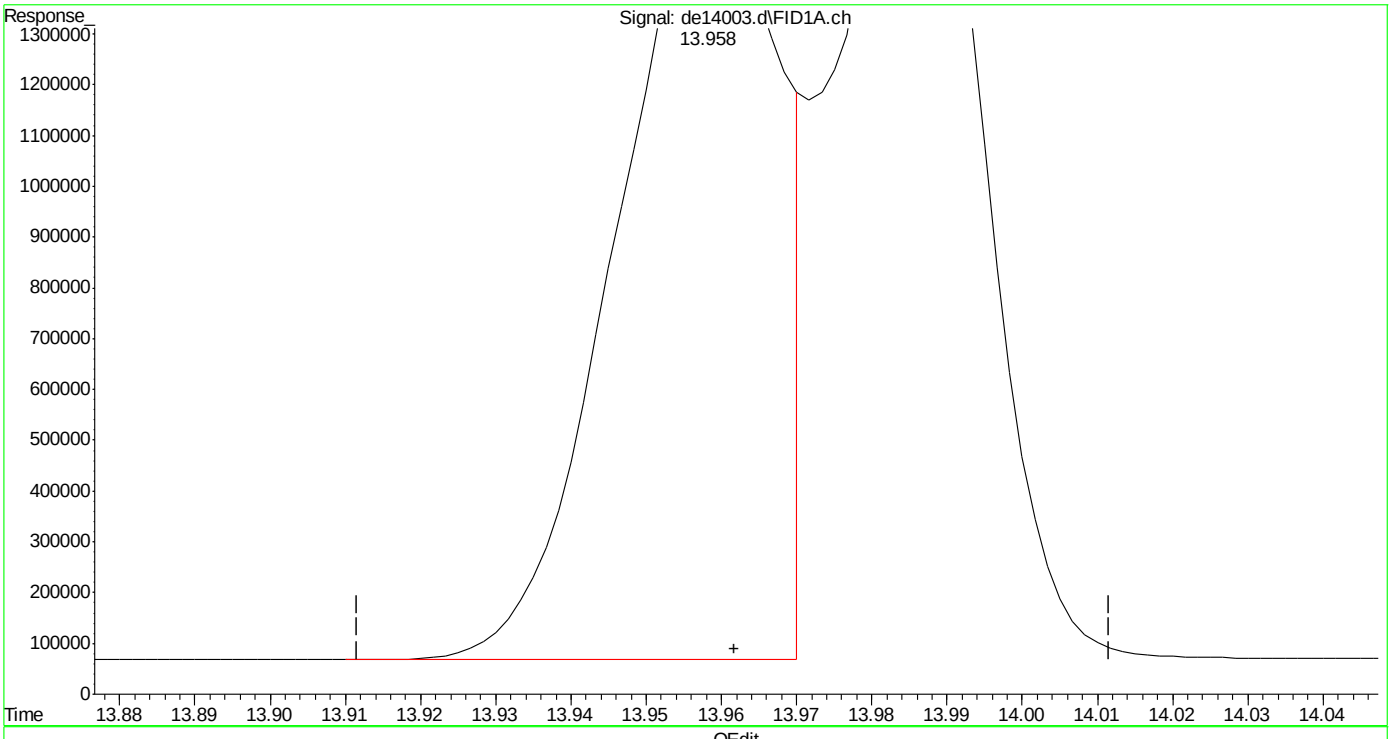
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.958min 23.312 µg/ml
response 2307957

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:12:31 2016

SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  2 May 2016  12:19 pm
Operator  : thomasa
Sample    : op47292-bs
Misc      : op47292,gde783,1000,,,2,,w
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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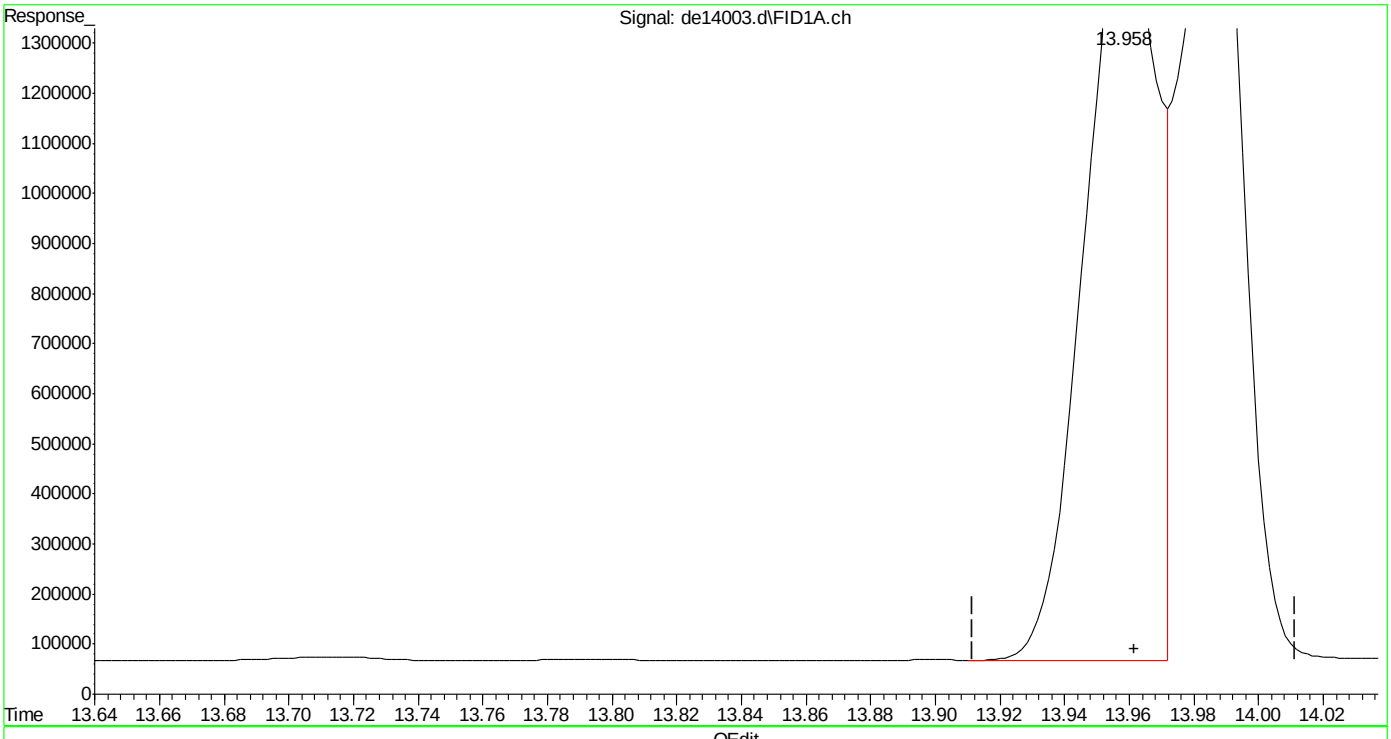


(16) benzo(B)fluoranthene

13.958min 24.437 µg/ml m

response 2419299

(+) = Expected Retention Time

EPH160502W.M Mon May 02 14:12:44 2016

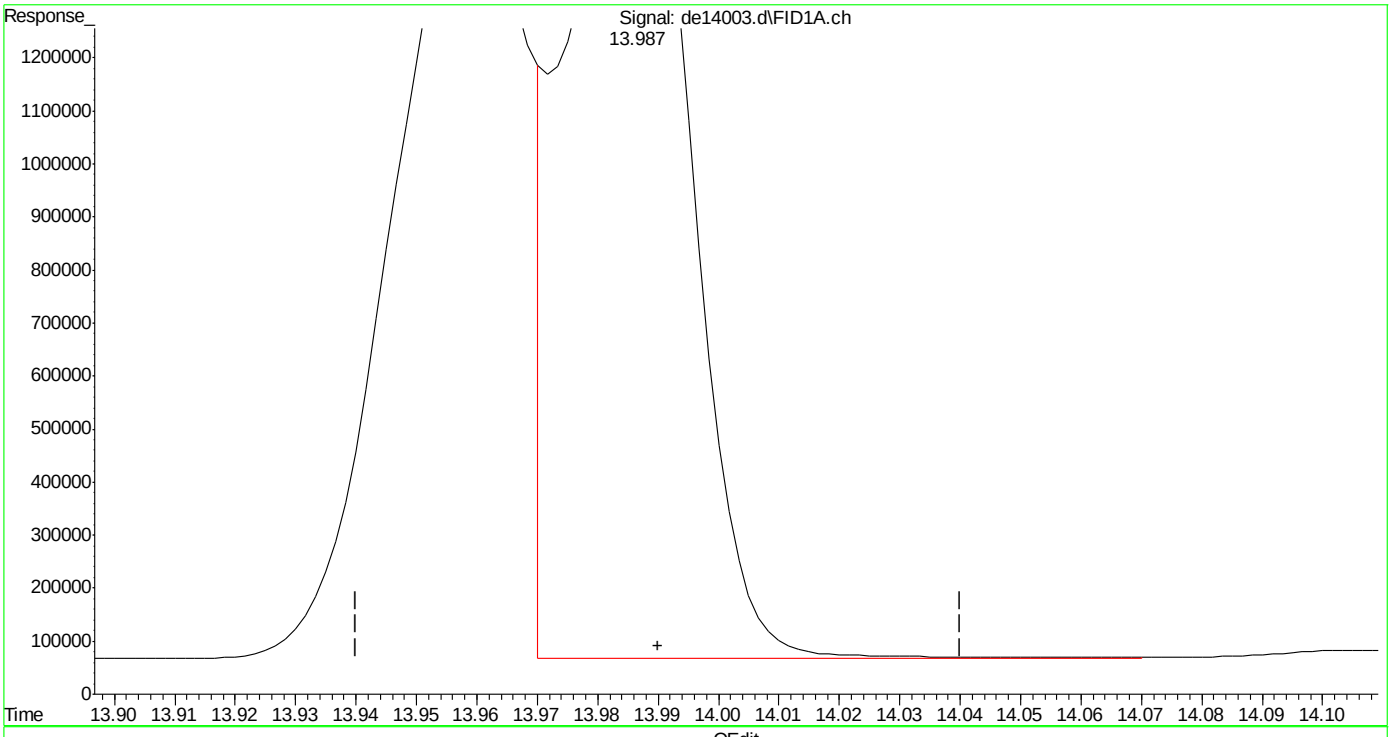
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.987min 24.954 µg/ml
response 2358185

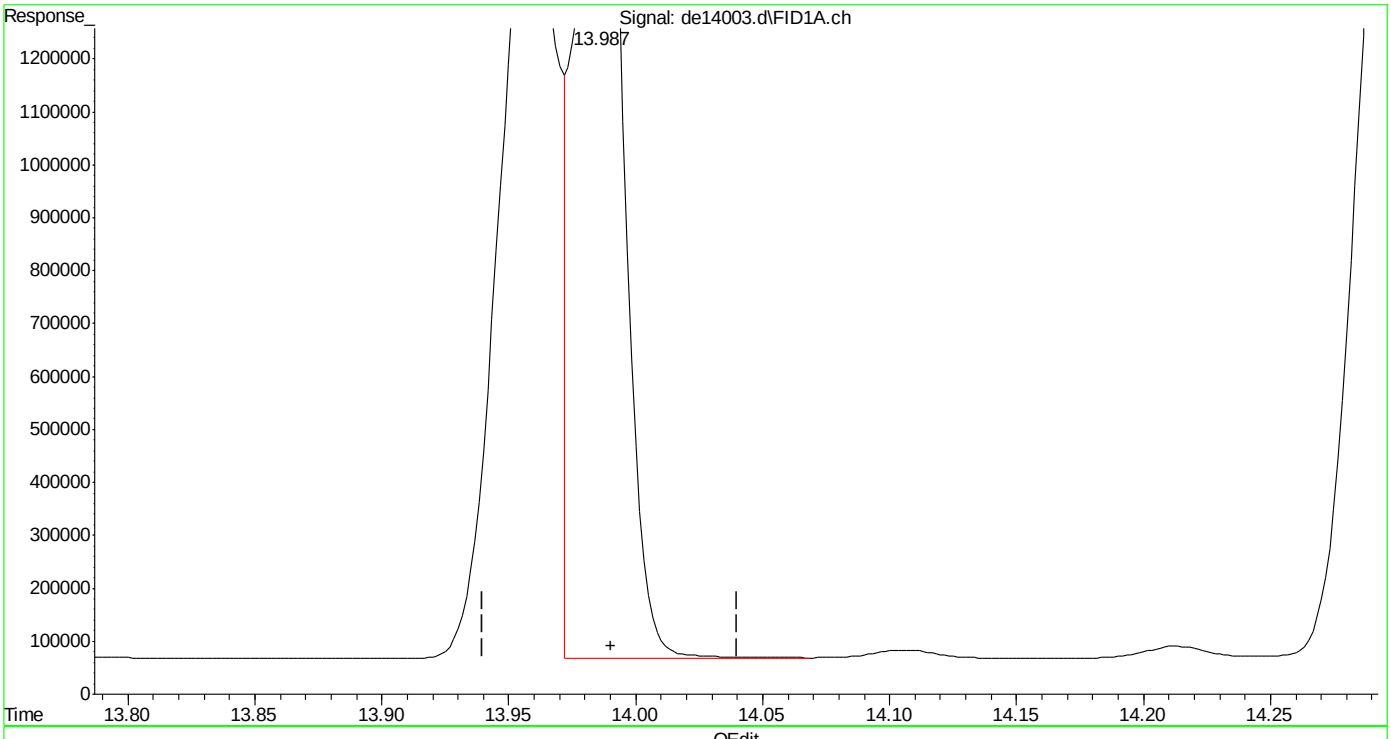
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:12:48 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.987min 23.819 µg/ml m
response 2250947

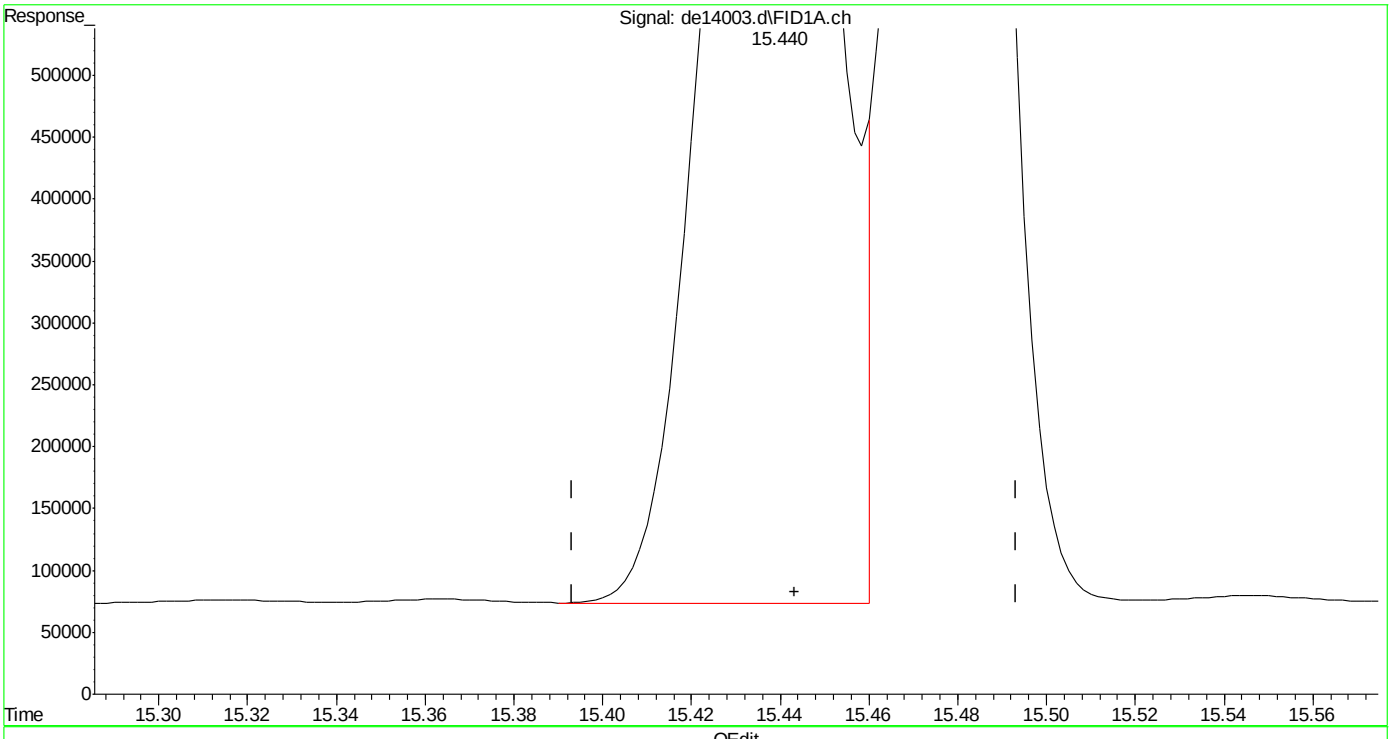
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:12:59 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.440min 25.139 µg/ml
response 2379642

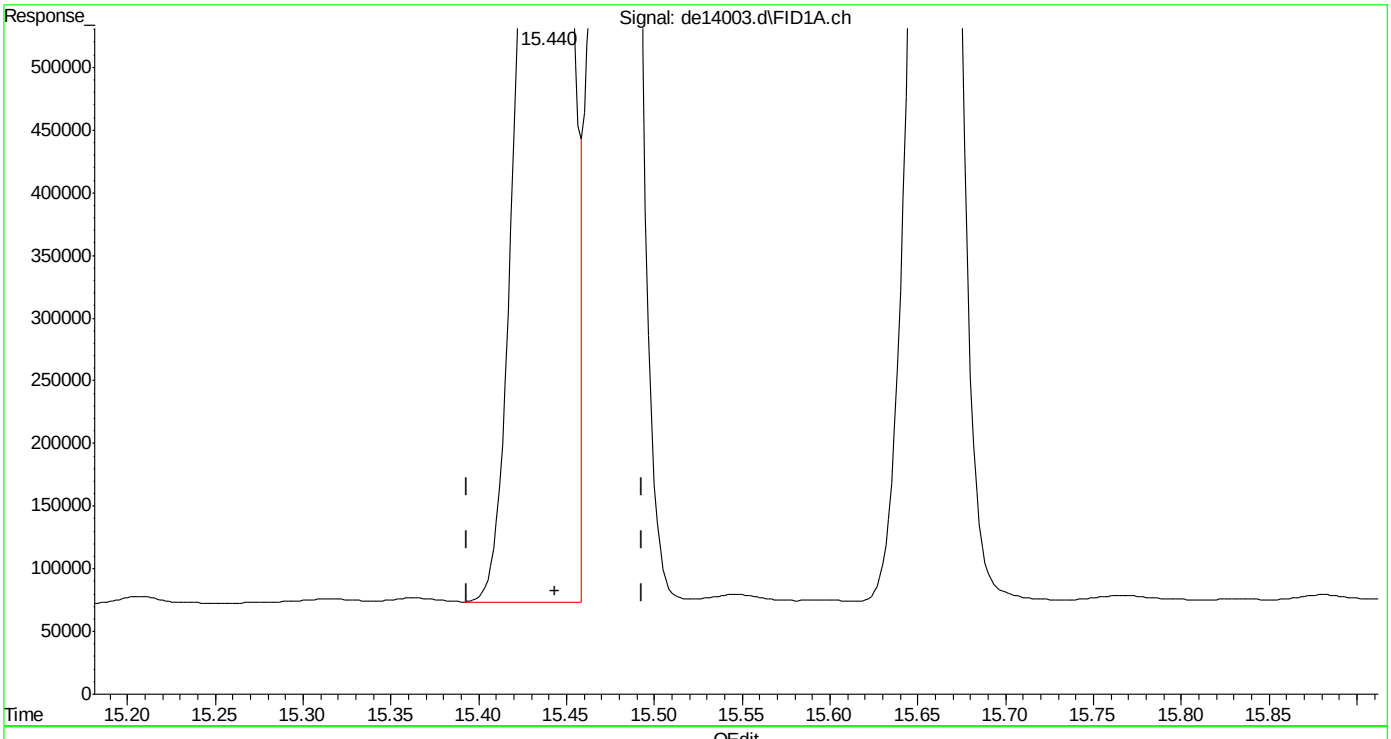
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.440min 24.751 µg/ml m
response 2342886

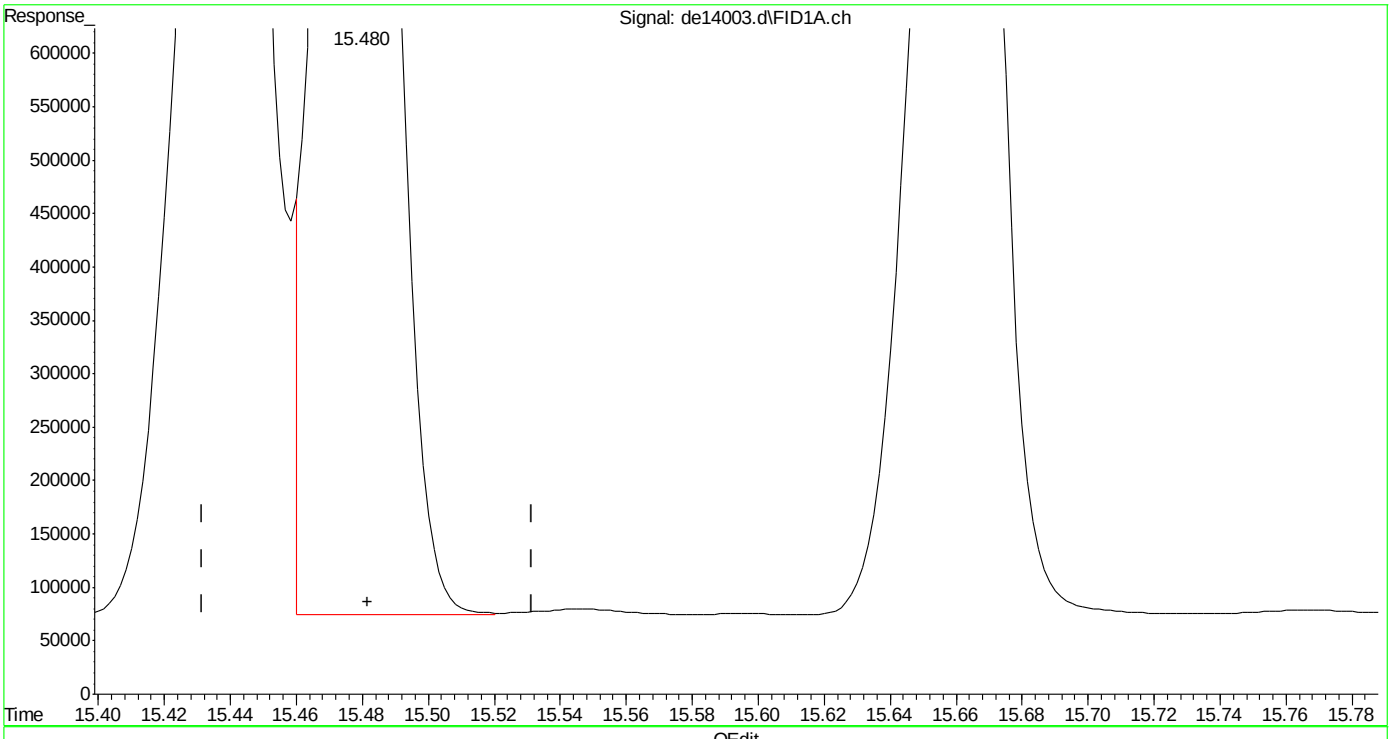
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:23 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.480min 24.370 µg/ml
response 2227382

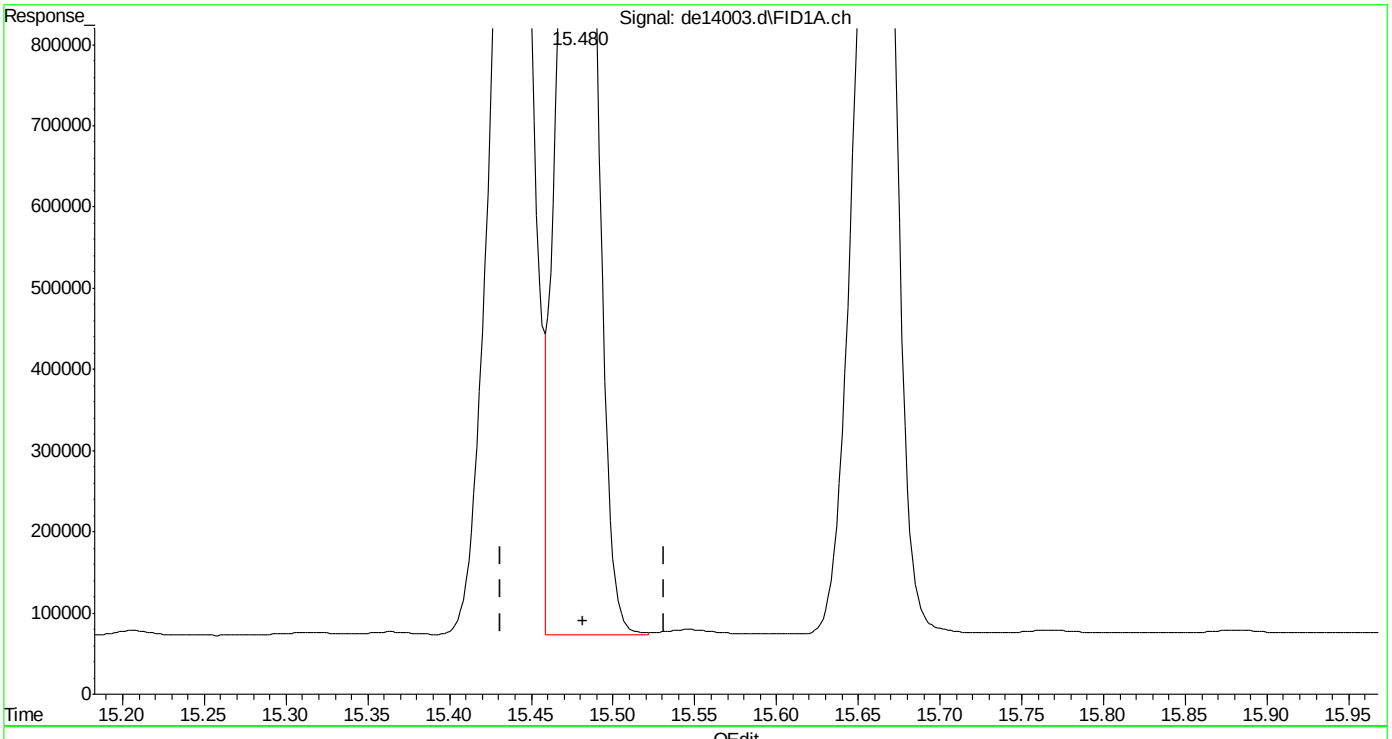
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:27 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.480min 24.844 µg/ml m
response 2270697

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:38 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/03/16 13:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:16:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	1585196	17.187 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 85.94%#		
6) s 2-bromonaphthalene	7.418	929896	14.818 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 74.09%#		
11) s o-terphenyl	9.957	1595304	15.575 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 77.88%#		
35) s 1-chlorooctadecane	11.227	828484	14.644 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 73.22%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36679982	373.506 µg/mlm
2) naphthalene	5.235	1321042	12.808 µg/ml
3) 2-methylnaphthalene	6.135	1408728	13.746 µg/ml
5) acenaphthylene	7.248	1531205	15.220 µg/ml
7) acenaphthene	7.490	1762745	17.052 µg/ml
8) fluorene	8.138	1728091	17.014 µg/ml
9) phenanthrene	9.322	1839887	18.080 µg/ml
10) anthracene	9.380	2161900	22.286 µg/ml
12) fluoranthene	10.830	2221081	22.224 µg/ml
13) pyrene	11.087	2236727	22.045 µg/ml
14) benzo(a)anthracene	12.653	2291185	23.700 µg/ml
15) chrysene	12.703	2308734	23.718 µg/ml
16) benzo(B)fluoranthene	13.957	2340921	23.645 µg/mlm
17) benzo(k)fluoranthene	13.983	2276150	24.086 µg/mlm
18) benzo(a)pyrene	14.292	2280385	24.670 µg/ml
19) indeno(1,2,3-cd)pyrene	15.435	2309964	24.403 µg/mlm
20) dibenzo(ah)anthracene	15.477	2245927	24.573 µg/mlm
21) benzo(ghi)perylene	15.658	2285143	24.805 µg/ml
25) h c-9	2.648	645108	8.733 µg/mlm
26) h c-10	3.815	814010	11.019 µg/ml
27) naphthalene #2	5.490	6881	0.086 µg/ml
28) c-12	5.665	979751	13.263 µg/ml
29) 2-methylnaphthalene #2	6.383	6359	0.079 µg/ml
30) c-14	7.183	1114147	15.082 µg/ml
31) c-16	8.512	1228184	16.626 µg/ml
32) c-18	9.707	1406072	19.034 µg/ml
33) c-19	10.262	1472118	22.036 µg/ml
34) c-20	10.792	1514707	22.673 µg/ml
36) c-22	11.788	1577933	23.619 µg/ml
37) c-24	12.707	1574019	23.561 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:16:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	13.557	1548911	23.185	µg/ml
39)	c-28	14.350	1536904	23.005	µg/ml
40) h	c-30	15.098	1520391	22.758	µg/ml
41) h	c-36	17.008	1196847	17.915	µg/mlm

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

9.3.2

9

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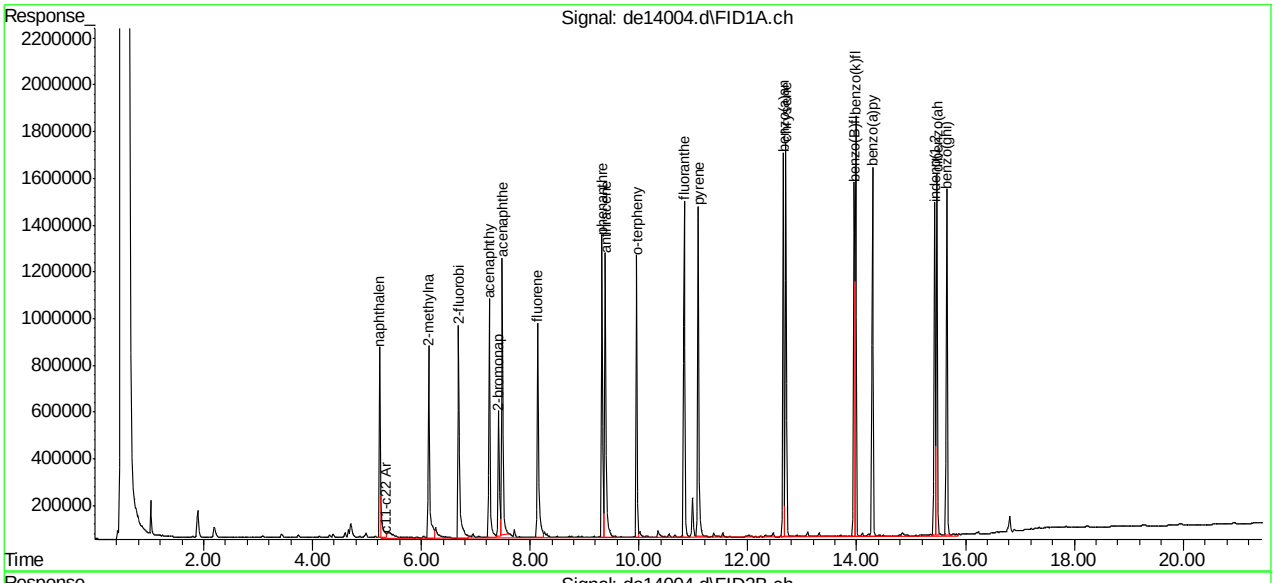
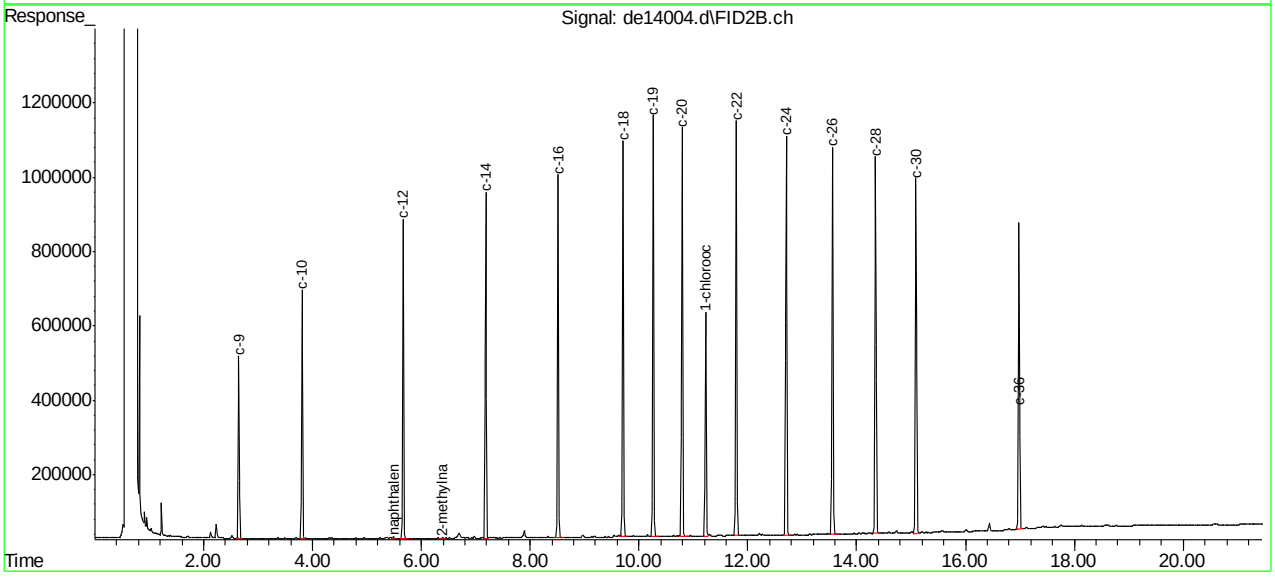
Quantitation Report (QT Reviewed)

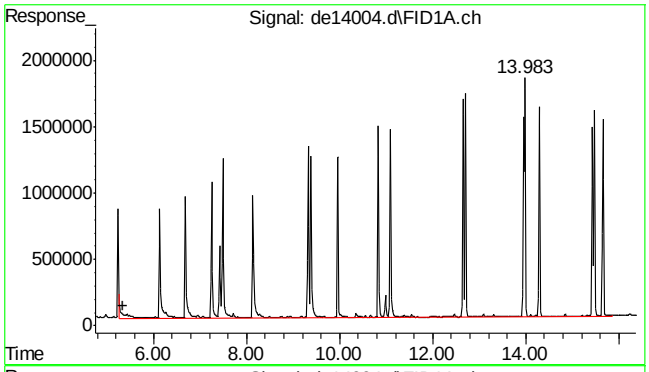
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:16:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

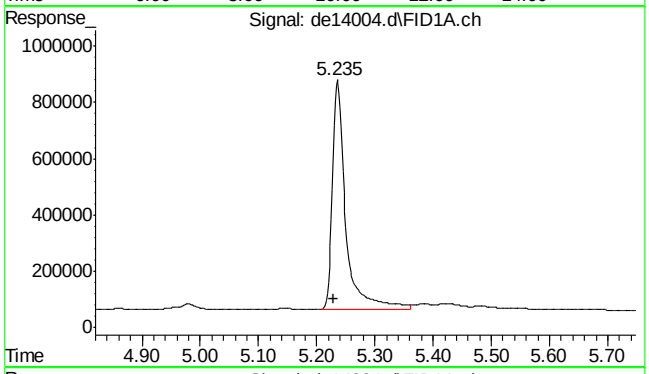






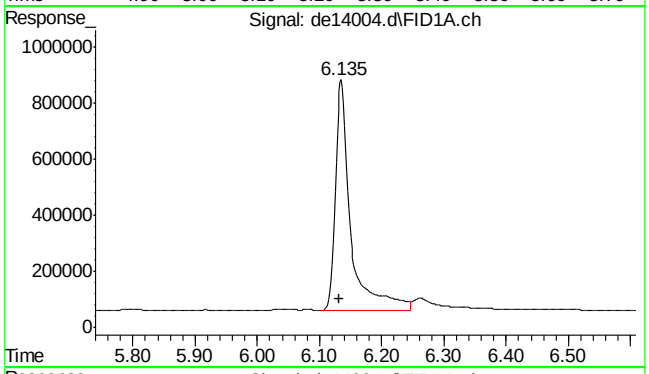
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36679982
Conc: 373.51 µg/ml m



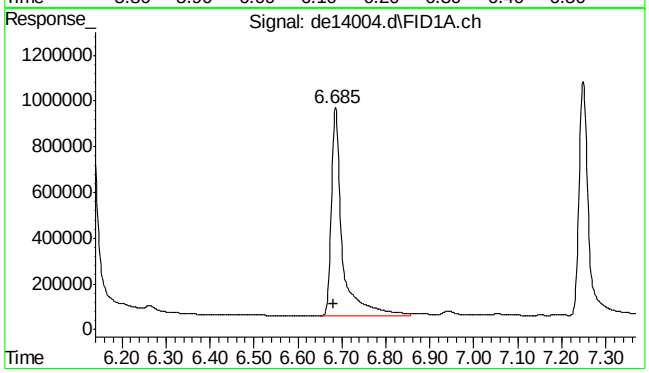
#2 naphthalene

R.T.: 5.235 min
Delta R.T.: 0.005 min
Response: 1321042
Conc: 12.81 µg/ml



#3 2-methylnaphthalene

R.T.: 6.135 min
Delta R.T.: 0.003 min
Response: 1408728
Conc: 13.75 µg/ml



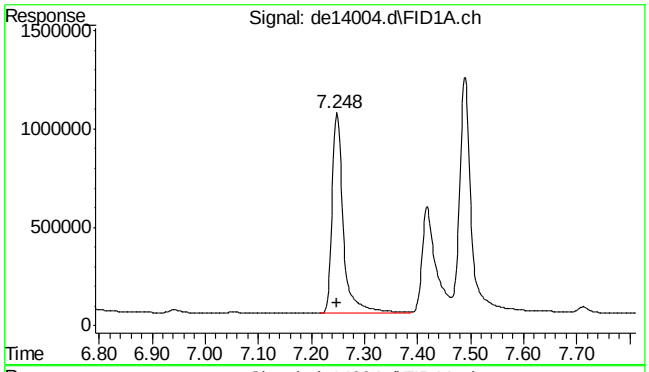
#4 2-fluorobiphenyl

R.T.: 6.685 min
Delta R.T.: 0.003 min
Response: 1585196
Conc: 17.19 µg/ml

9.3.2

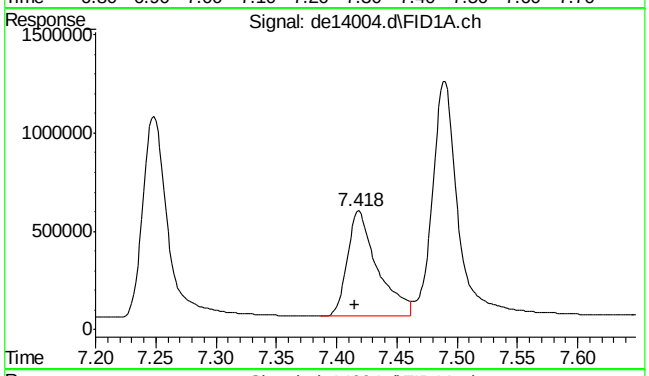
9

SGS ACCUTEST MC45611



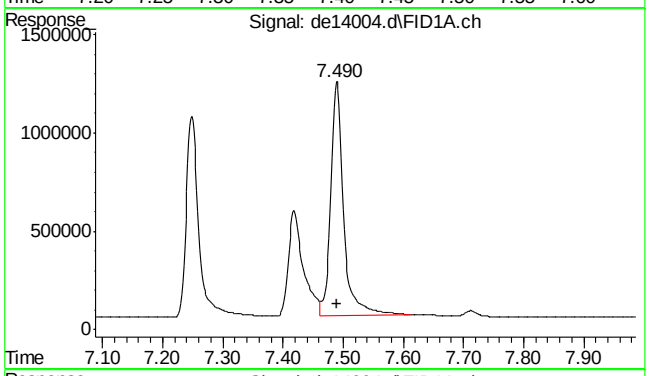
#5 acenaphthylene

R.T.: 7.248 min
Delta R.T.: 0.000 min
Response: 1531205
Conc: 15.22 µg/ml



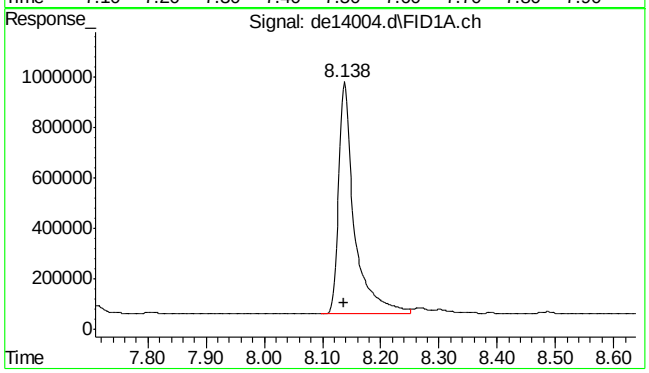
#6 2-bromonaphthalene

R.T.: 7.418 min
Delta R.T.: 0.003 min
Response: 929896
Conc: 14.82 µg/ml



#7 acenaphthene

R.T.: 7.490 min
Delta R.T.: 0.000 min
Response: 1762745
Conc: 17.05 µg/ml



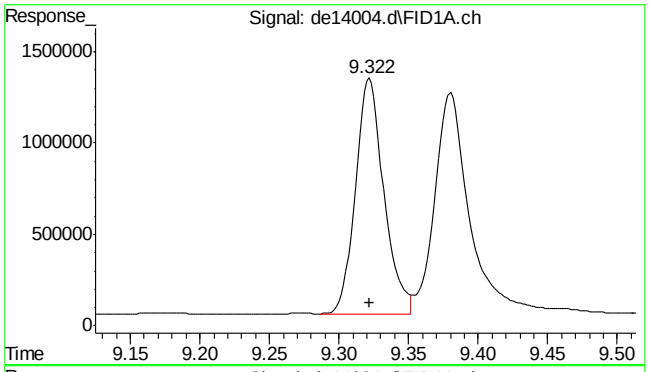
#8 fluorene

R.T.: 8.138 min
Delta R.T.: 0.002 min
Response: 1728091
Conc: 17.01 µg/ml

9.3.2

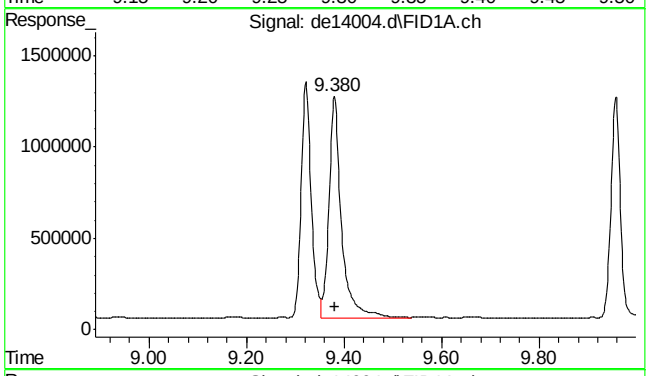
9

SGS ACCUTEST MC45611



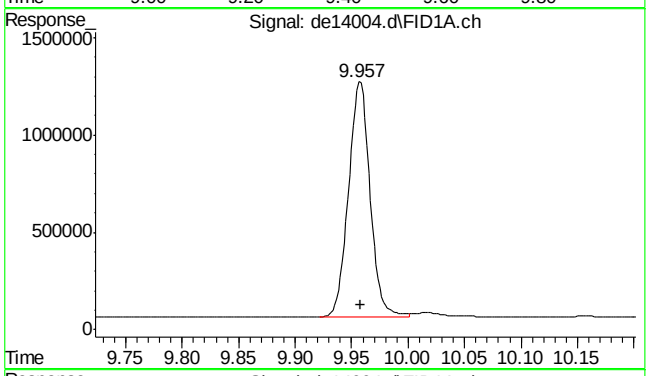
#9 phenanthrene

R.T.: 9.322 min
Delta R.T.: 0.000 min
Response: 1839887
Conc: 18.08 µg/ml



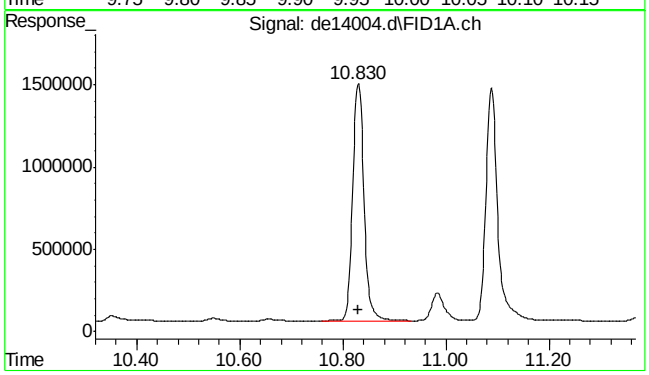
#10 anthracene

R.T.: 9.380 min
Delta R.T.: 0.000 min
Response: 2161900
Conc: 22.29 µg/ml



#11 o-terphenyl

R.T.: 9.957 min
Delta R.T.: -0.002 min
Response: 1595304
Conc: 15.58 µg/ml



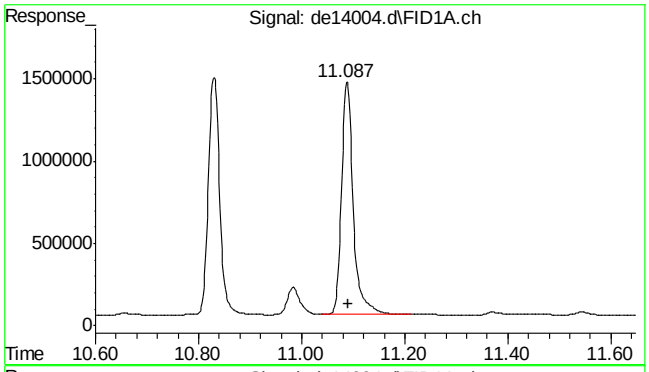
#12 fluoranthene

R.T.: 10.830 min
Delta R.T.: 0.000 min
Response: 2221081
Conc: 22.22 µg/ml

9.3.2

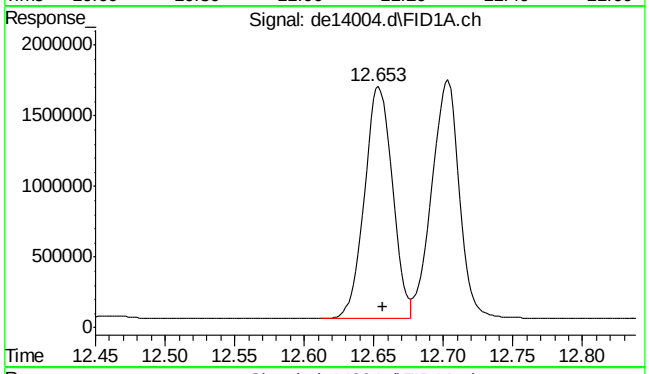
9

SGS ACCUTEST MC45611



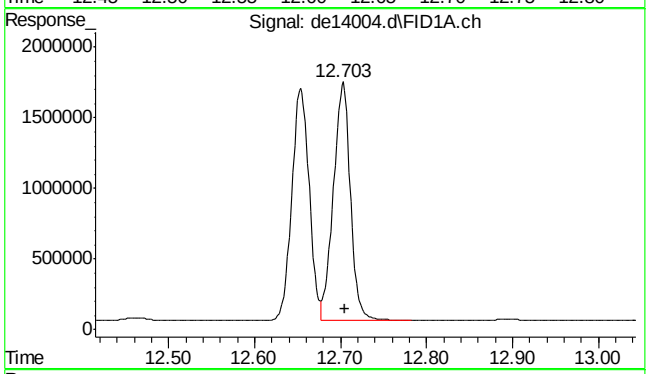
#13 pyrene

R.T.: 11.087 min
Delta R.T.: -0.003 min
Response: 2236727
Conc: 22.04 µg/ml



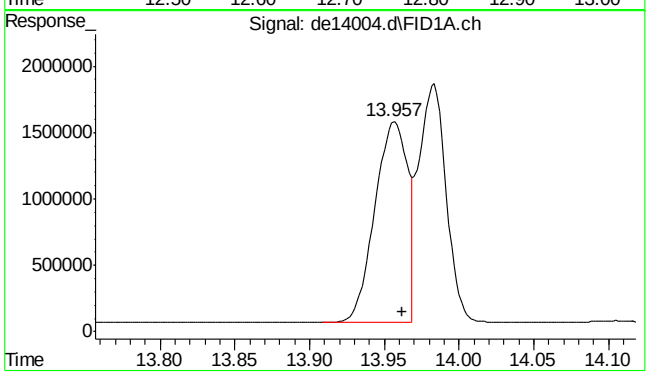
#14 benzo(a)anthracene

R.T.: 12.653 min
Delta R.T.: -0.003 min
Response: 2291185
Conc: 23.70 µg/ml



#15 chrysene

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 2308734
Conc: 23.72 µg/ml



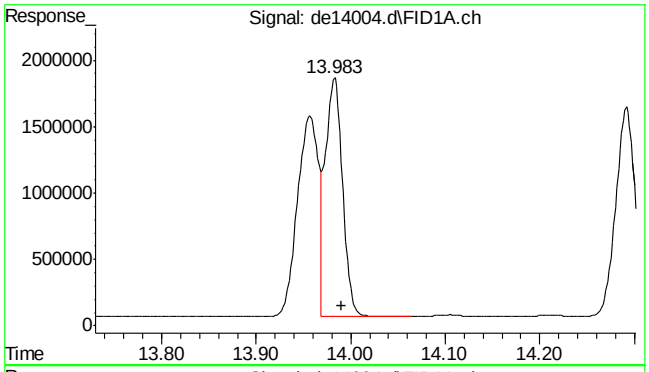
#16 benzo(B)fluoranthene

R.T.: 13.957 min
Delta R.T.: -0.005 min
Response: 2340921
Conc: 23.65 µg/ml m

9.3.2

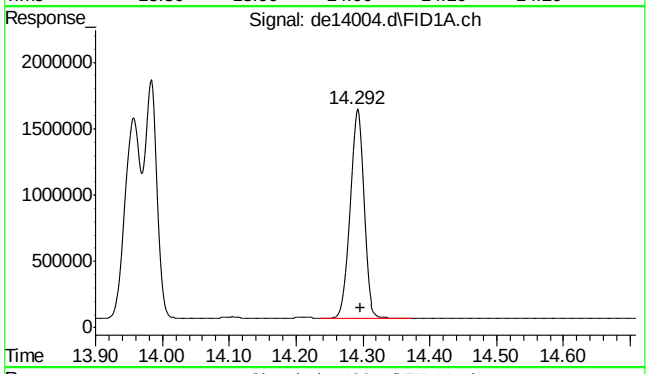
9

SGS ACCUTEST MC45611



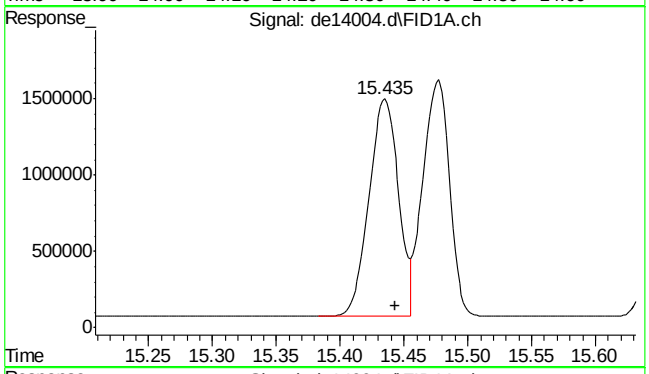
#17 benzo(k)fluoranthene

R.T.: 13.983 min
Delta R.T.: -0.007 min
Response: 2276150
Conc: 24.09 µg/ml m



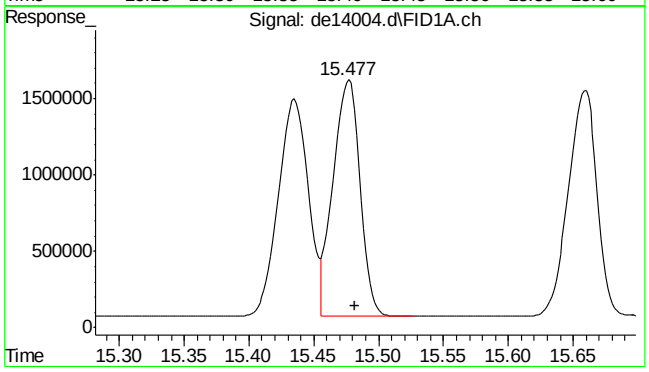
#18 benzo(a)pyrene

R.T.: 14.292 min
Delta R.T.: -0.005 min
Response: 2280385
Conc: 24.67 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.435 min
Delta R.T.: -0.008 min
Response: 2309964
Conc: 24.40 µg/ml m



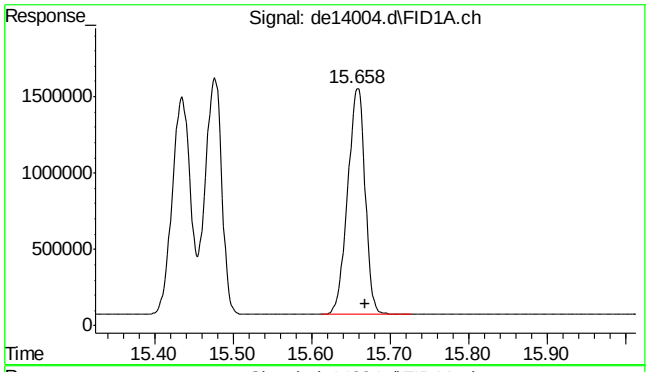
#20 dibenzo(ah)anthracene

R.T.: 15.477 min
Delta R.T.: -0.005 min
Response: 2245927
Conc: 24.57 µg/ml m

9.3.2

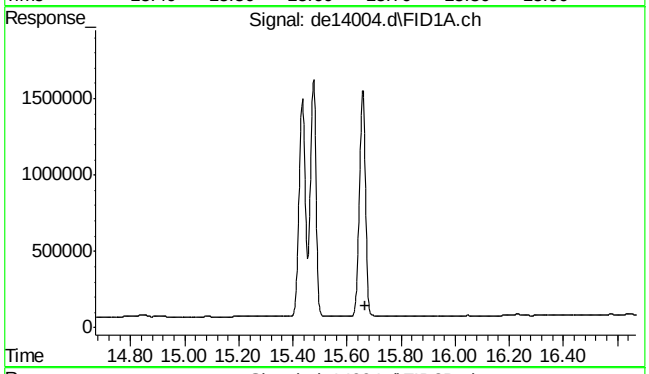
9

SGS ACCUTEST MC45611



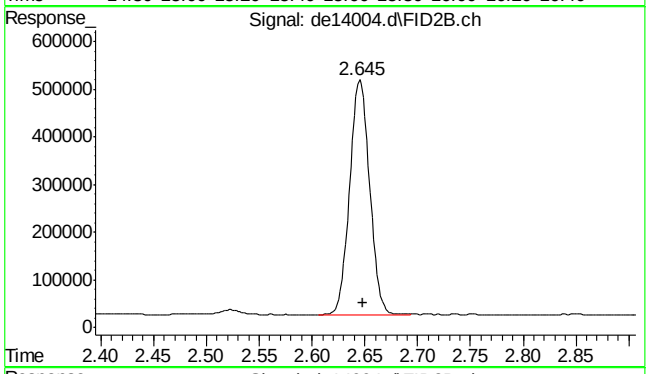
#21 benzo(ghi)perylene

R.T.: 15.658 min
Delta R.T.: -0.010 min
Response: 2285143
Conc: 24.81 µg/ml



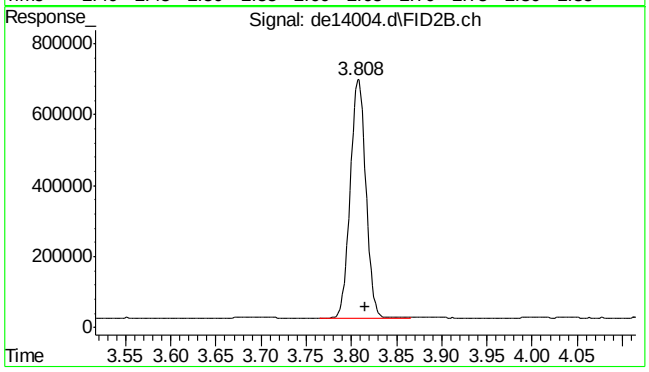
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

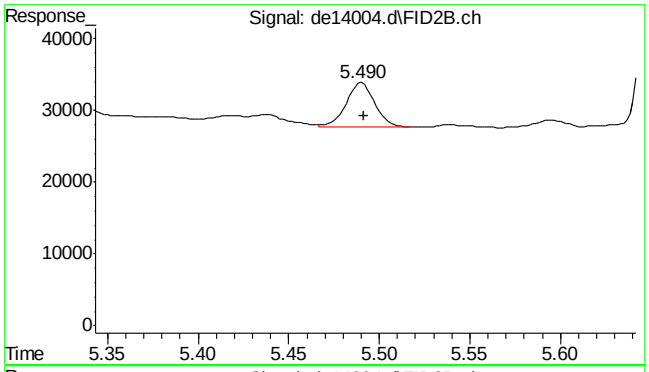
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 645108
Conc: 8.73 µg/ml m



#26 c-10

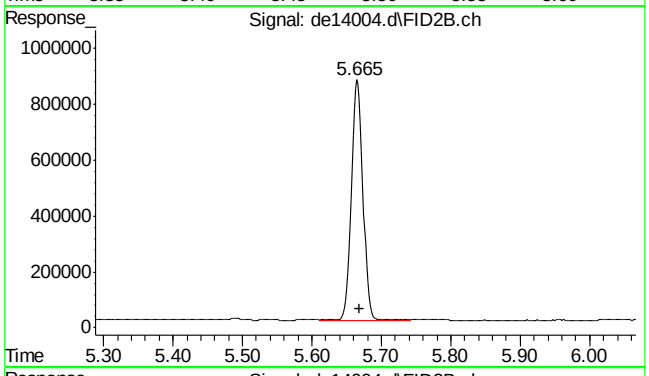
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 814010
Conc: 11.02 µg/ml

SGS ACCUTEST MC45611



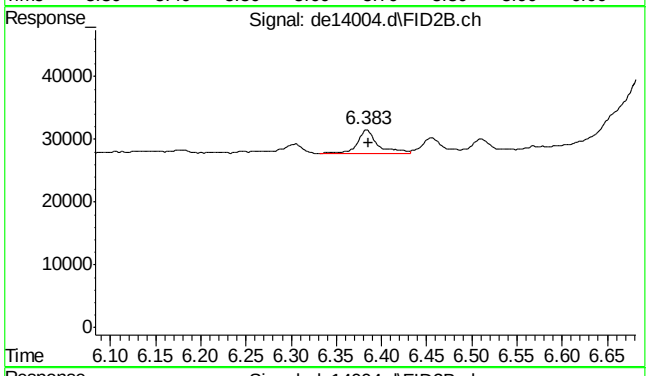
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: -0.002 min
Response: 6881
Conc: 0.09 µg/ml



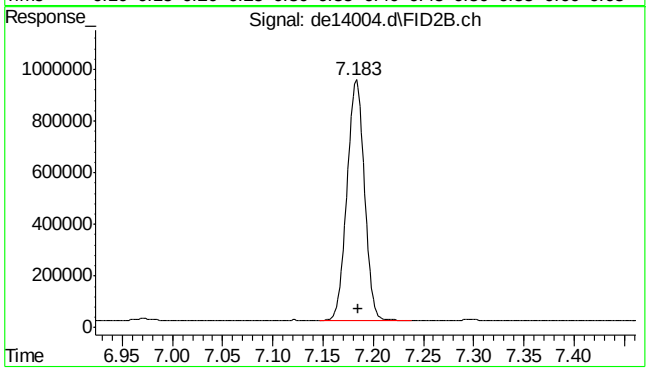
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 979751
Conc: 13.26 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 6359
Conc: 0.08 µg/ml



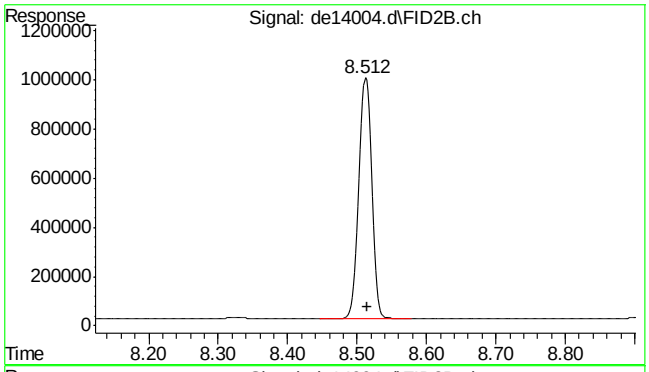
#30 c-14

R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1114147
Conc: 15.08 µg/ml

9.3.2

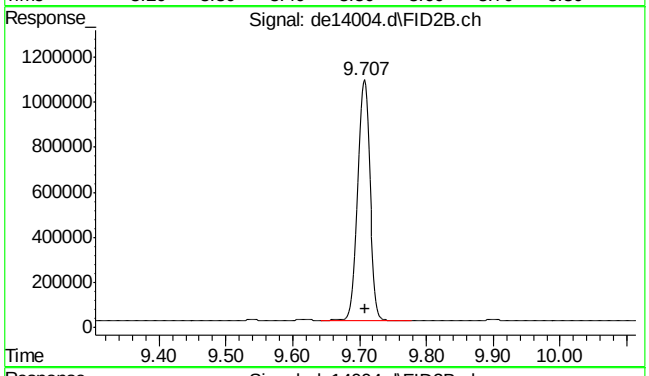
9

SGS ACCUTEST MC45611



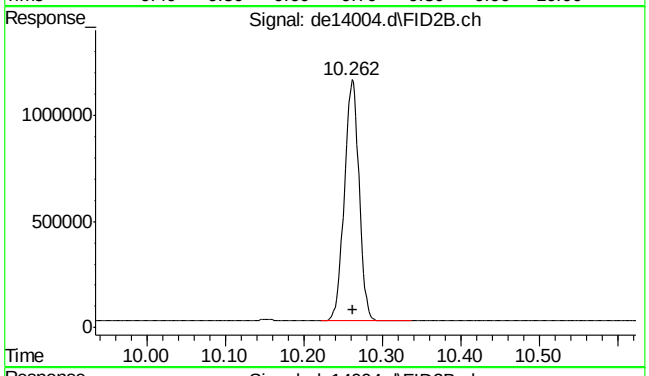
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.003 min
Response: 1228184
Conc: 16.63 µg/ml



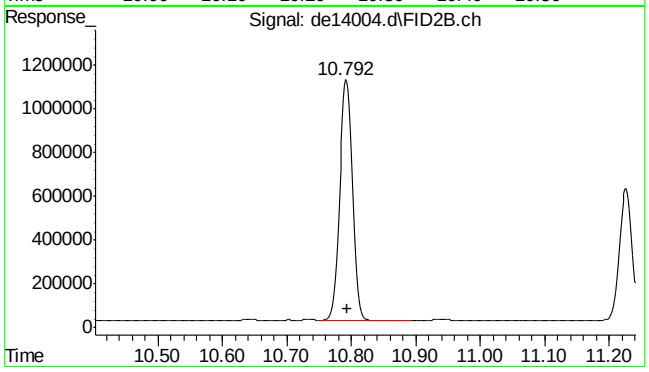
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1406072
Conc: 19.03 µg/ml



#33 c-19

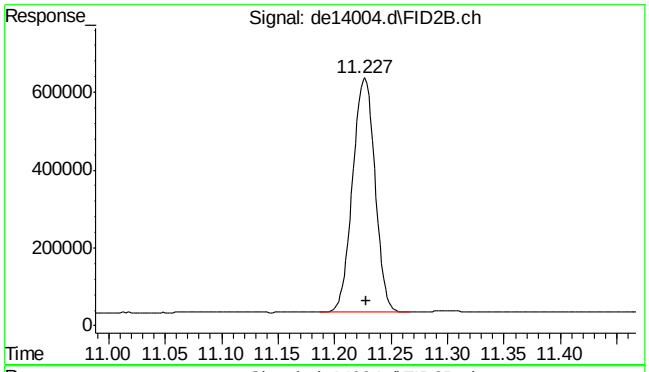
R.T.: 10.262 min
Delta R.T.: -0.002 min
Response: 1472118
Conc: 22.04 µg/ml



#34 c-20

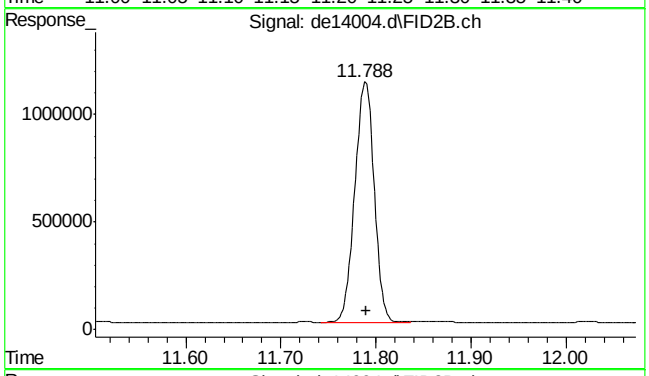
R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1514707
Conc: 22.67 µg/ml

SGS ACCUTEST MC45611



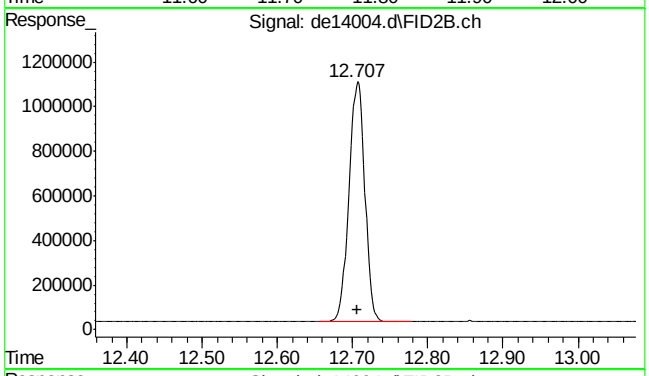
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 828484
Conc: 14.64 µg/ml



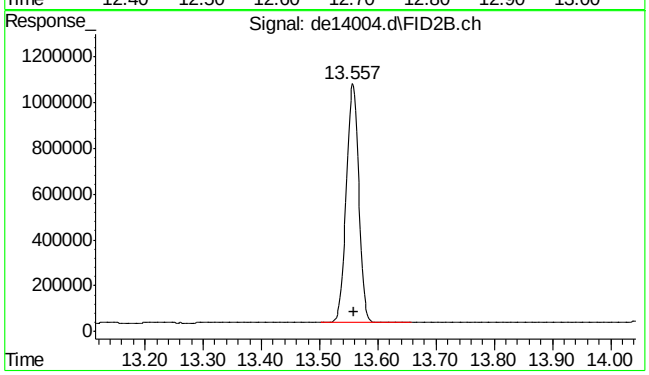
#36 c-22

R.T.: 11.788 min
Delta R.T.: -0.002 min
Response: 1577933
Conc: 23.62 µg/ml



#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 1574019
Conc: 23.56 µg/ml



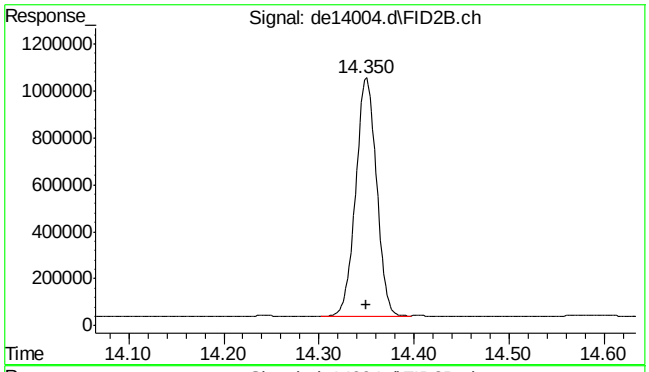
#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1548911
Conc: 23.19 µg/ml

9.3.2

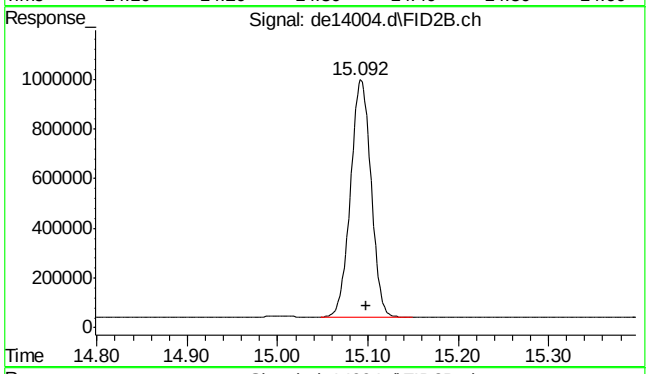
9

SGS ACCUTEST MC45611



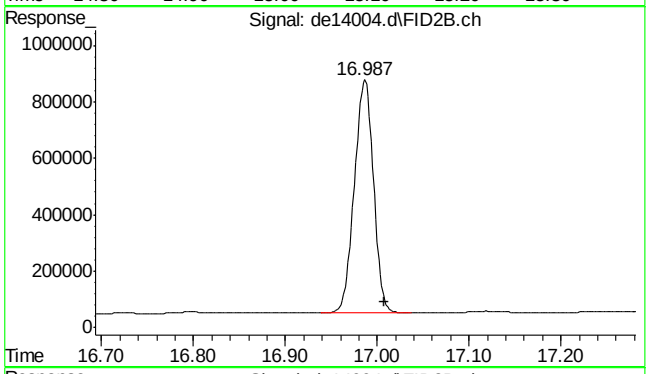
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 1536904
Conc: 23.01 µg/ml



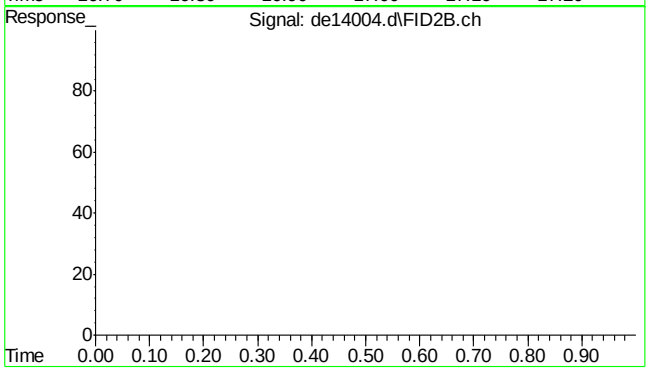
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1520391
Conc: 22.76 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1196847
Conc: 17.92 µg/ml m



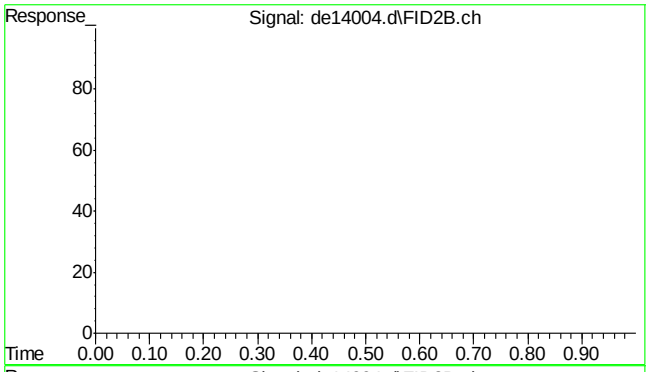
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.2

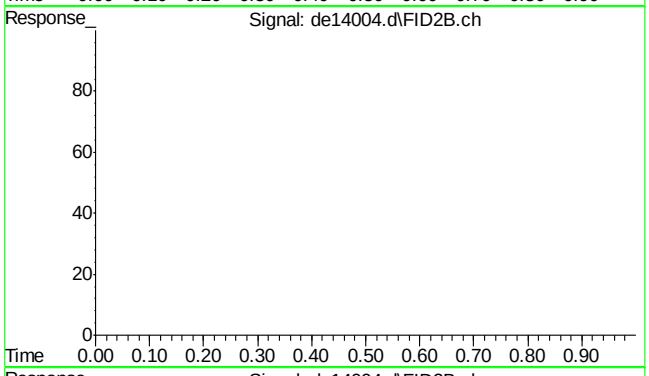
9

SGS ACCUTEST MC45611



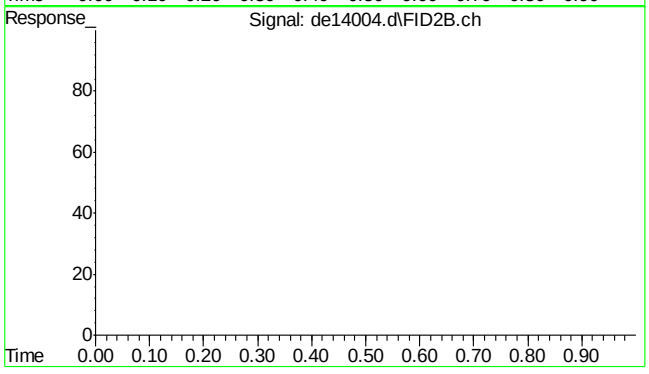
#43 bht

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.

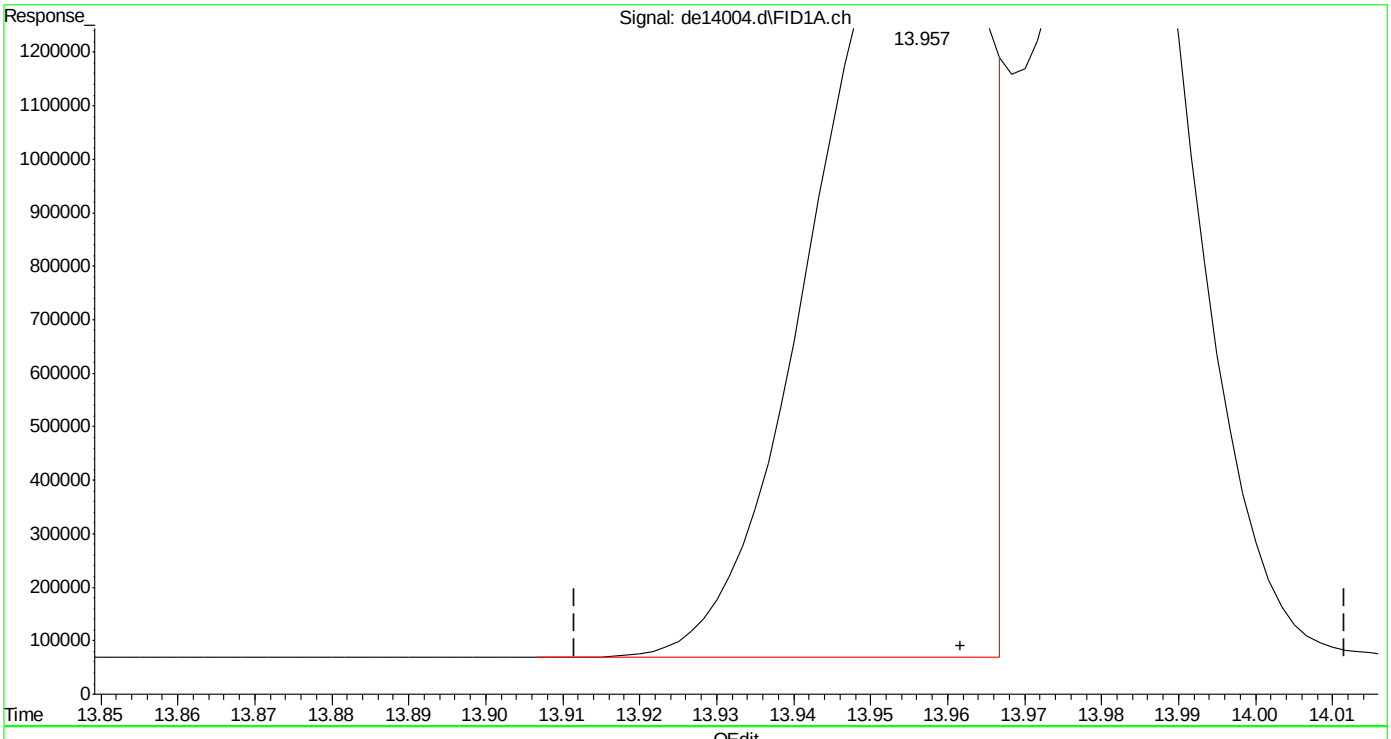
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.957min 22.522 µg/ml
response 2229778

(+) = Expected Retention Time

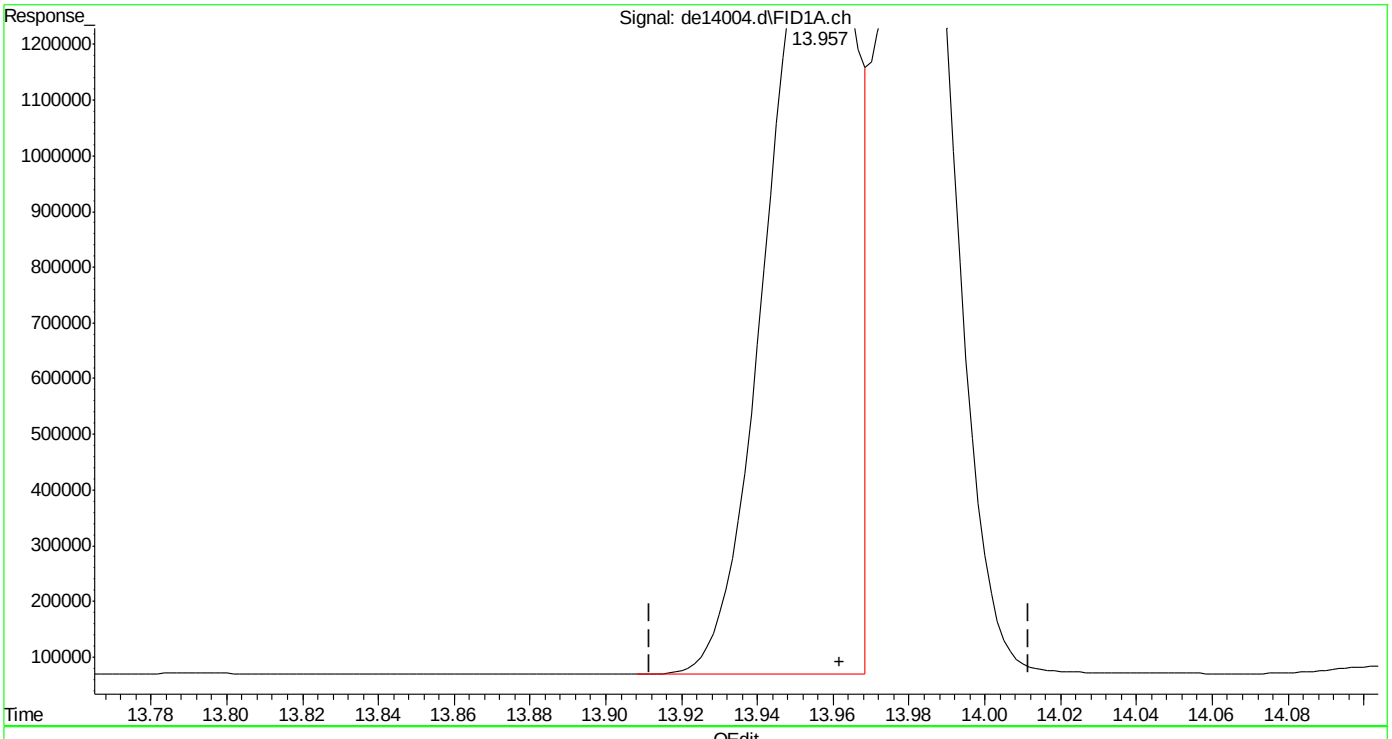
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.957min 23.645 µg/ml m
response 2340921

(+) = Expected Retention Time

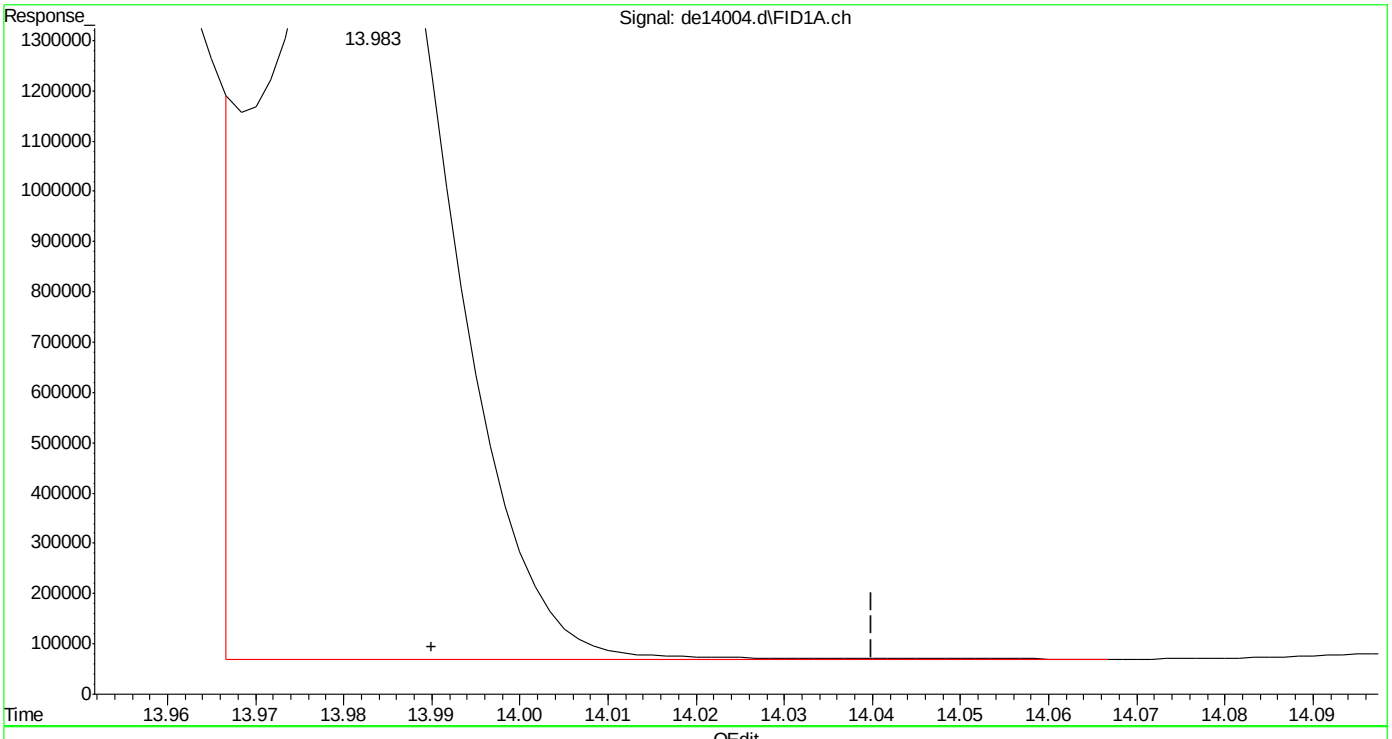
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.983min 25.226 µg/ml
response 2383887

(+) = Expected Retention Time

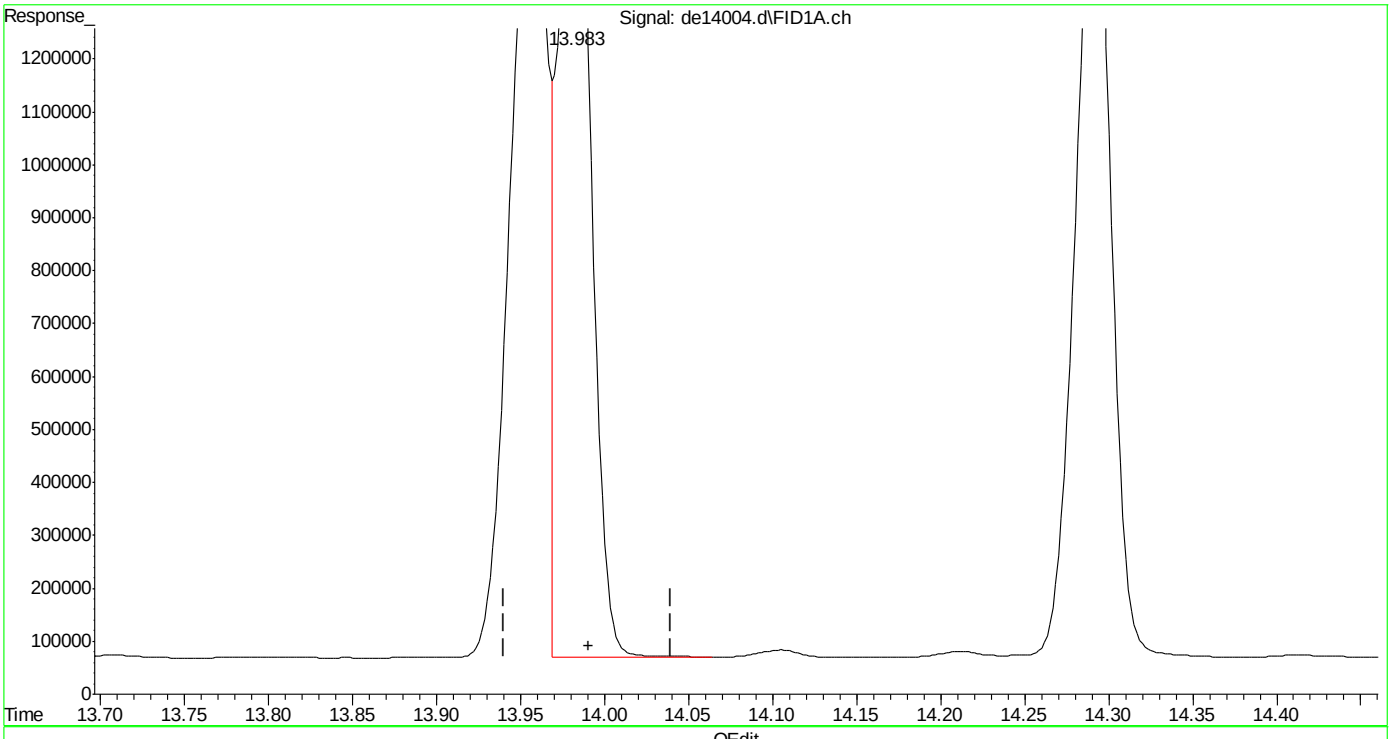
EPH160502W.M Mon May 02 14:15:17 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.983min 24.086 µg/ml m
response 2276150

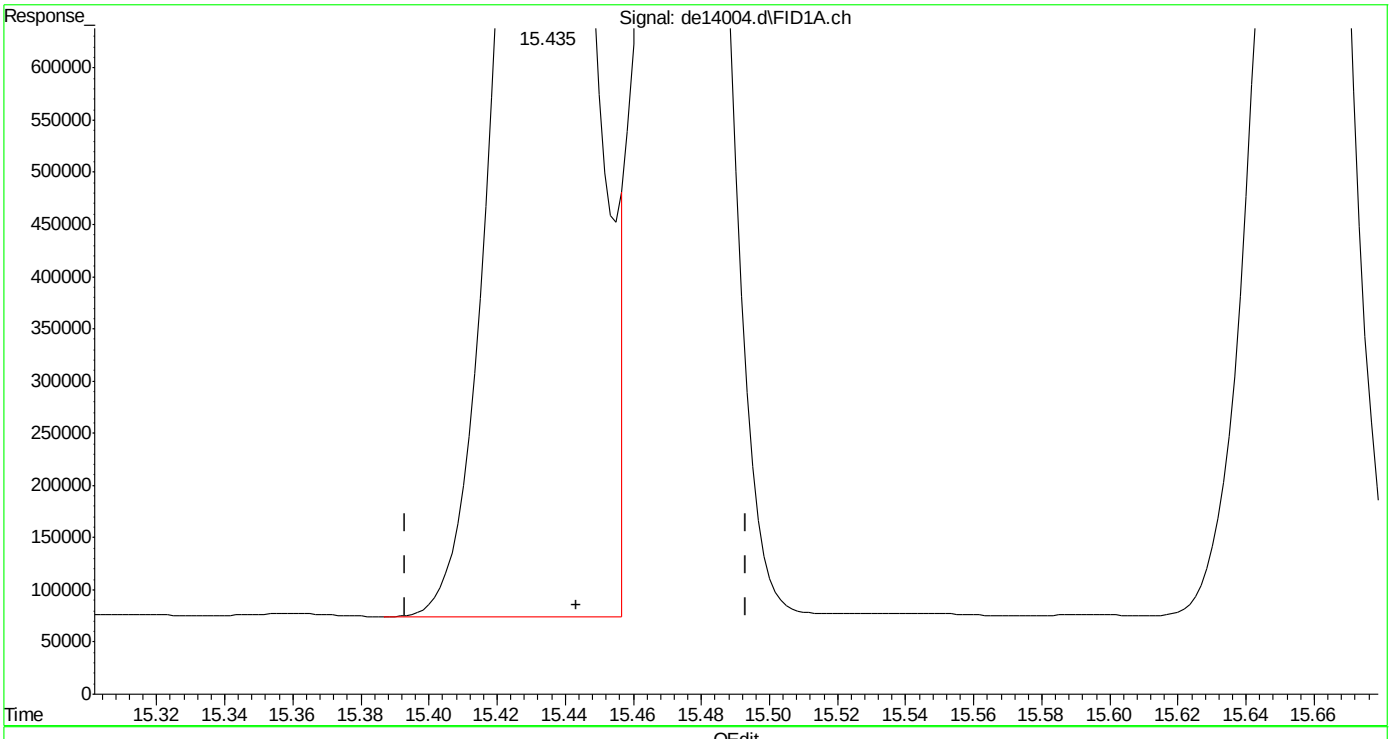
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:15:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.435min 24.818 µg/ml
response 2349263

(+) = Expected Retention Time

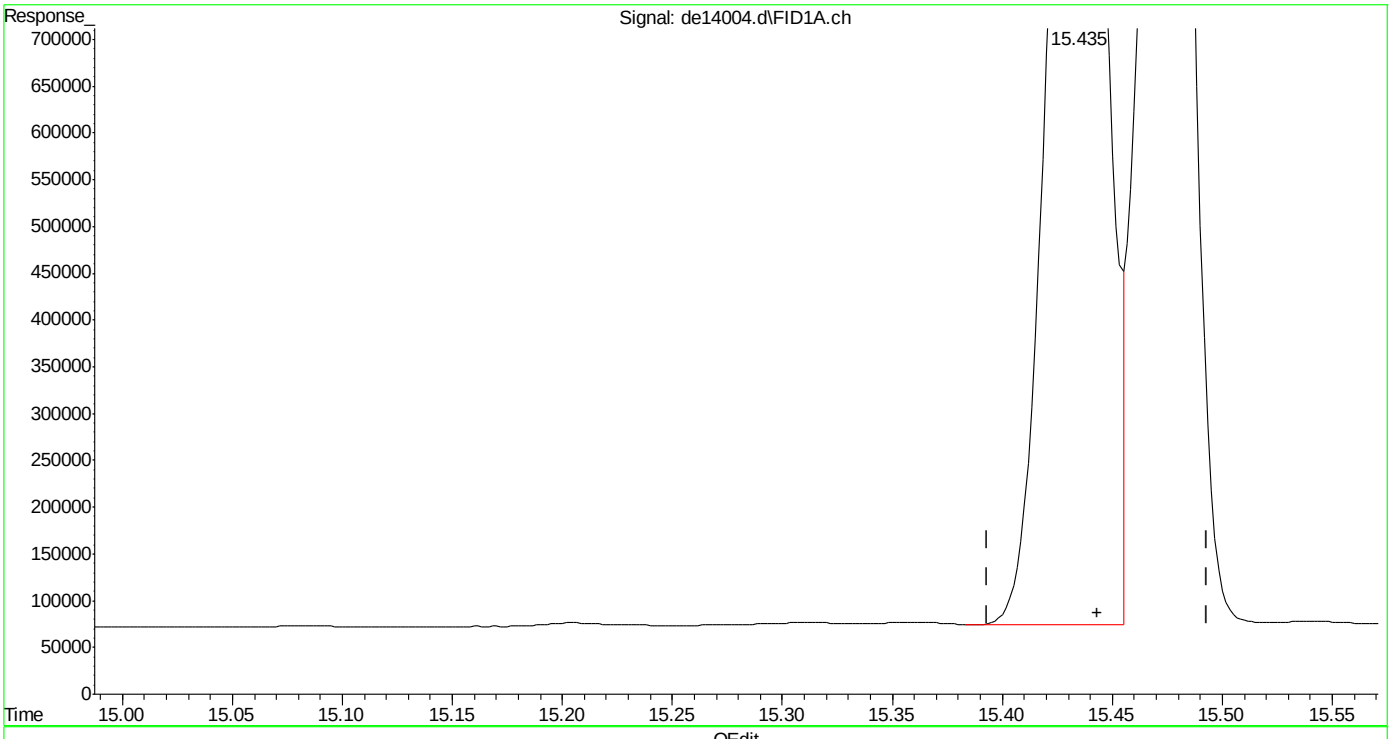
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.435min 24.403 µg/ml m
response 2309964

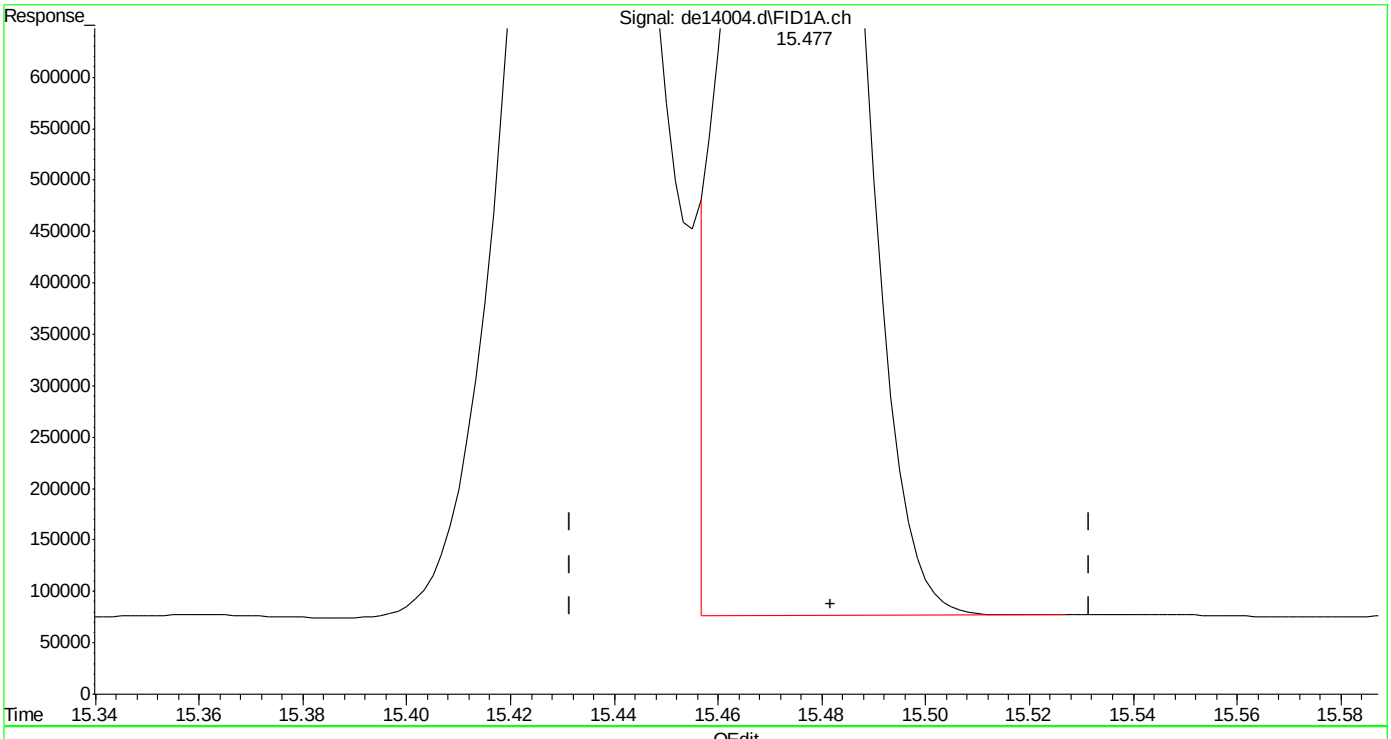
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.477min 24.027 µg/ml
response 2196045

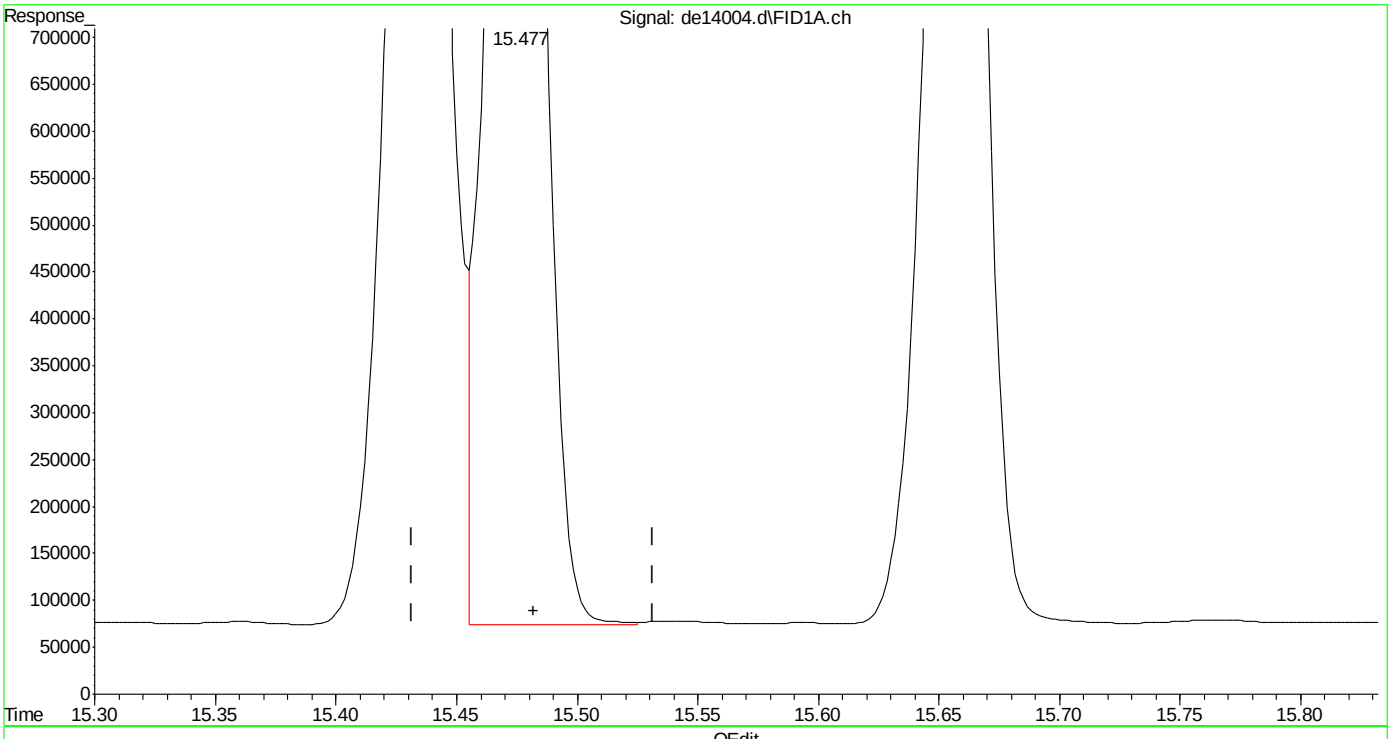
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:16:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.477min 24.573 µg/ml m
response 2245927

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14089.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 8:49 am
Operator : thomasa
Sample : op47424-bs
Misc : op47424,gde791,11.49,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:42:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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	6.610	1764446	19.131 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 95.66%#	
6) s 2-bromonaphthalene	7.337	1131659	18.033 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 90.17%#	
11) s o-terphenyl	9.875	1924747	18.791 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 93.95%#	
35) s 1-chlorooctadecane	11.225	817365	14.447 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 72.23%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	36549979	372.182 µg/mlm
2) naphthalene	5.158	1625081	15.756 µg/ml
3) 2-methylnaphthalene	6.057	1716444	16.749 µg/ml
5) acenaphthylene	7.168	1800619	17.899 µg/ml
7) acenaphthene	7.410	2004838	19.394 µg/ml
8) fluorene	8.055	1920154	18.905 µg/ml
9) phenanthrene	9.235	1965493	19.314 µg/ml
10) anthracene	9.290	2117334	21.826 µg/ml
12) fluoranthene	10.738	2100492	21.017 µg/ml
13) pyrene	10.993	2117925	20.874 µg/ml
14) benzo(a)anthracene	12.557	2080180	21.517 µg/ml
15) chrysene	12.603	2058825	21.151 µg/ml
16) benzo(B)fluoranthene	13.853	2043945	20.645 µg/ml
17) benzo(k)fluoranthene	13.880	2032129	21.503 µg/ml
18) benzo(a)pyrene	14.187	2010522	21.751 µg/ml
19) indeno(1,2,3-cd)pyrene	15.325	1983068	20.950 µg/ml
20) dibenzo(ah)anthracene	15.370	1980102	21.664 µg/ml
21) benzo(ghi)perylene	15.548	2007840	21.795 µg/ml
25) h c-9	2.648	1013348	13.718 µg/mlm
26) h c-10	3.815	1119744	15.158 µg/ml
27) naphthalene #2	5.487	9842	0.123 µg/ml
28) c-12	5.663	1212491	16.413 µg/ml
29) 2-methylnaphthalene #2	6.382	4348	0.054 µg/ml
30) c-14	7.182	1265025	17.125 µg/ml
31) c-16	8.512	1322055	17.897 µg/ml
32) c-18	9.707	1423373	19.268 µg/ml
33) c-19	10.262	1430671	21.415 µg/ml
34) c-20	10.792	1458335	21.829 µg/ml
36) c-22	11.788	1423954	21.315 µg/ml
37) c-24	12.707	1407020	21.061 µg/ml

SGS ACCUTEST MC45611

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14089.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 8:49 am
Operator : thomasa
Sample : op47424-bs
Misc : op47424,gde791,11.49,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:42:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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	13.557	1378922	20.641	µg/ml
39)		c-28	14.352	1361030	20.373	µg/ml
40)	h	c-30	15.098	1357326	20.317	µg/ml
41)	h	c-36	17.008	1137539	17.027	µg/mlm

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

9.3.3

9

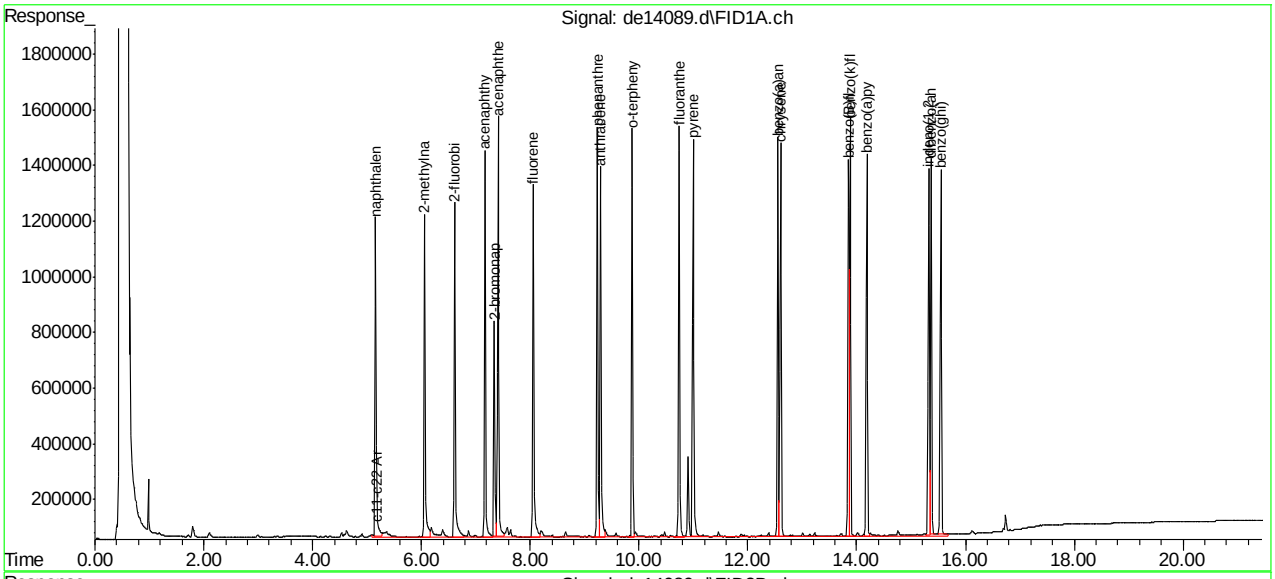
SGS ACCUTEST MC45611

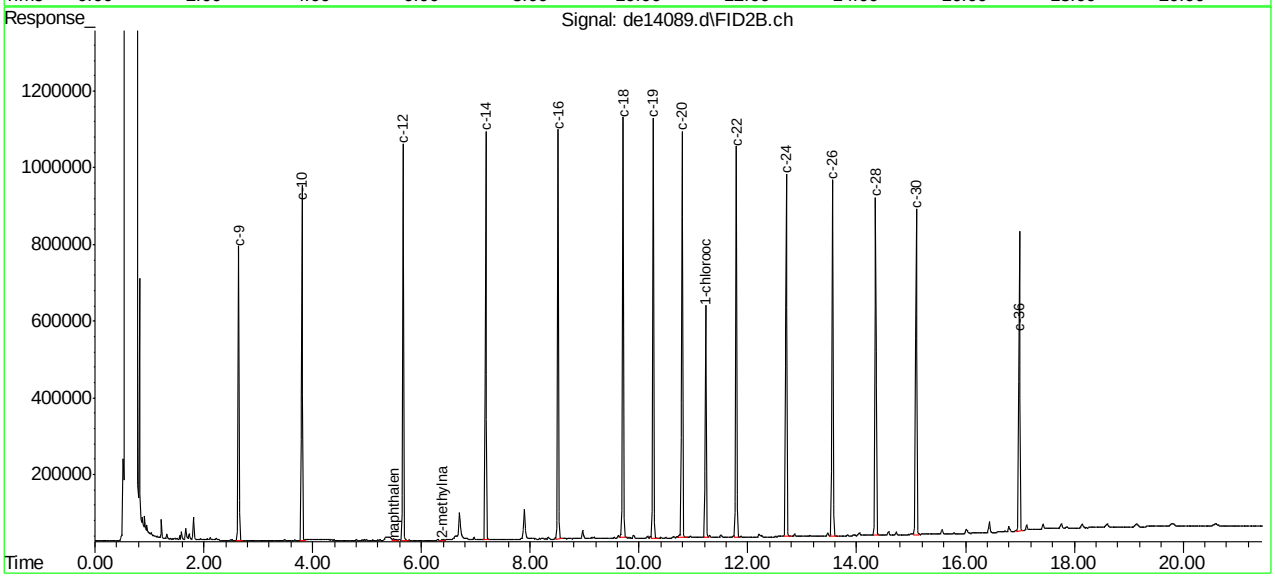
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14089.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 8:49 am
Operator : thomasa
Sample : op47424-bs
Misc : op47424,gde791,11.49,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

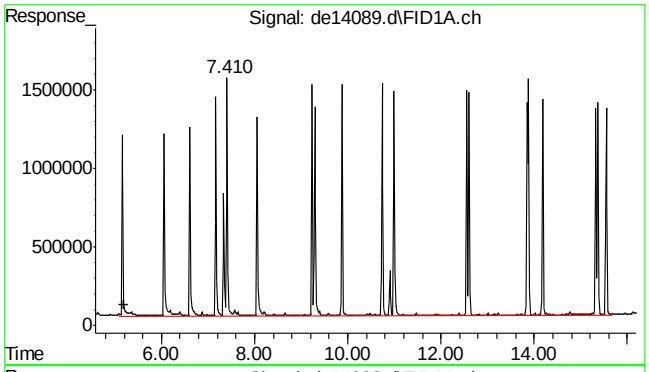
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:42:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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



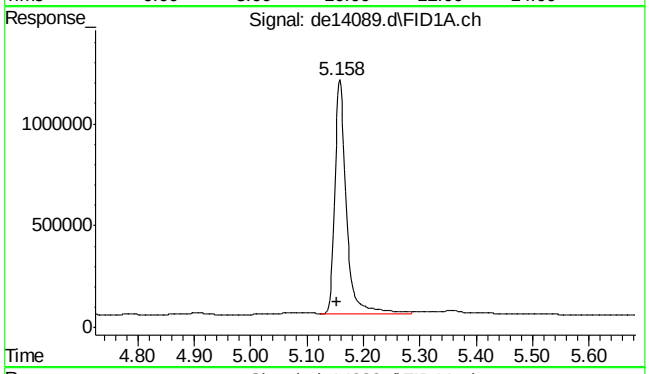


SGS ACCUTEST MC45611



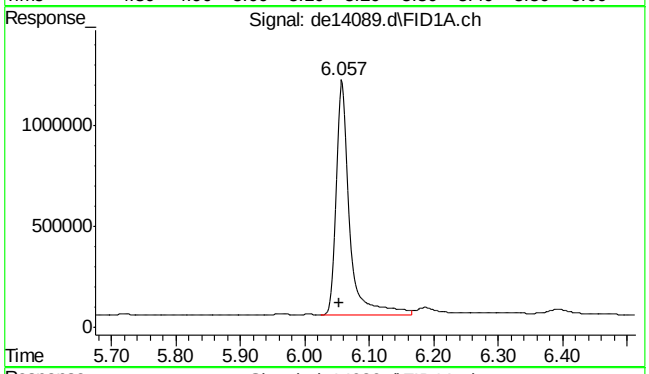
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 36549979
Conc: 372.18 µg/ml m



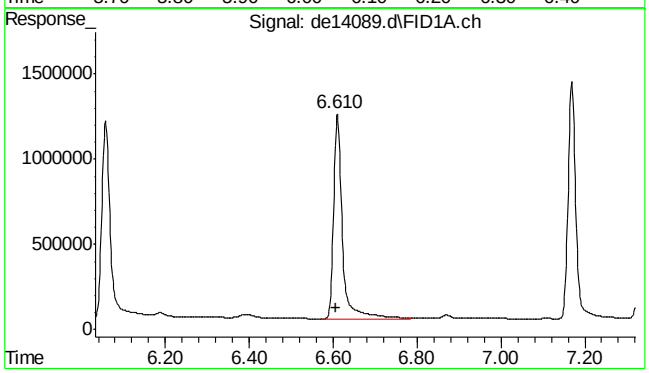
#2 naphthalene

R.T.: 5.158 min
Delta R.T.: 0.005 min
Response: 1625081
Conc: 15.76 µg/ml



#3 2-methylnaphthalene

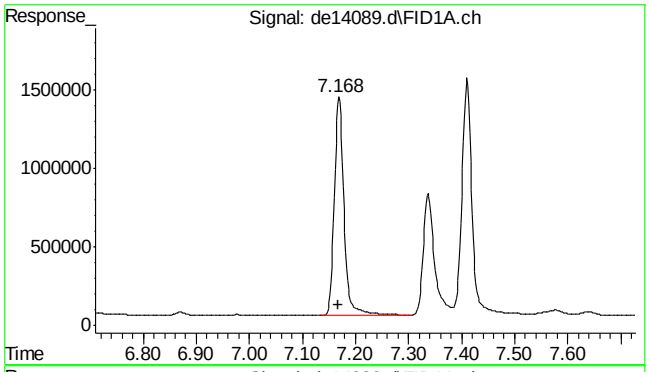
R.T.: 6.057 min
Delta R.T.: 0.003 min
Response: 1716444
Conc: 16.75 µg/ml



#4 2-fluorobiphenyl

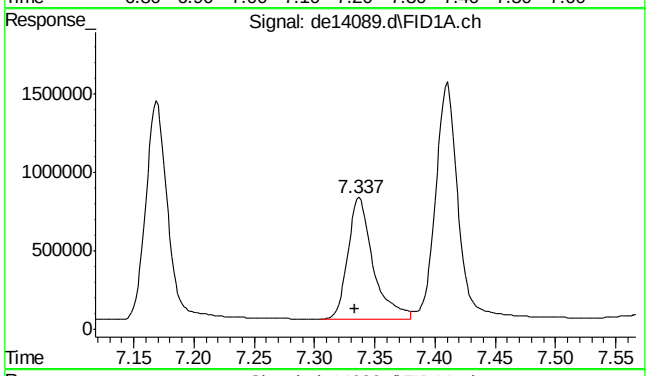
R.T.: 6.610 min
Delta R.T.: 0.003 min
Response: 1764446
Conc: 19.13 µg/ml

SGS ACCUTEST MC45611



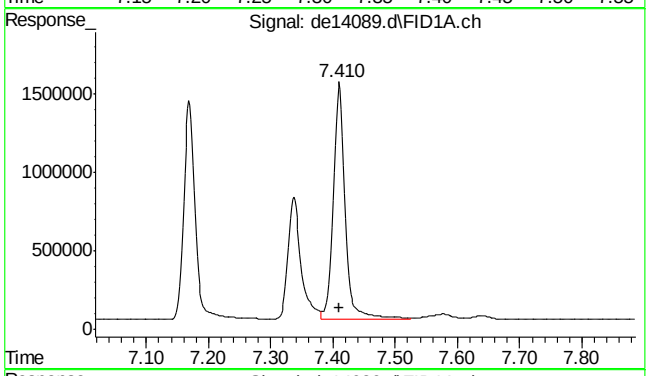
#5 acenaphthylene

R.T.: 7.168 min
Delta R.T.: 0.002 min
Response: 1800619
Conc: 17.90 µg/ml



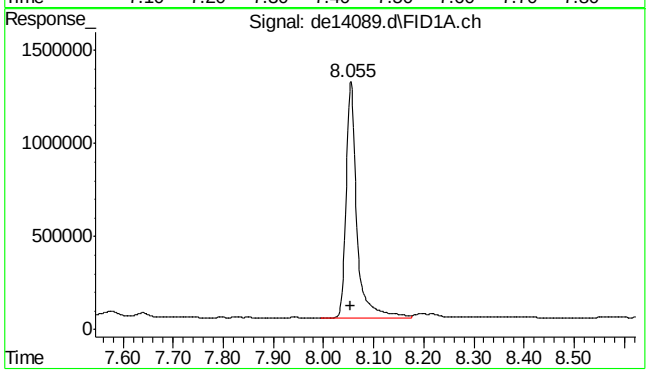
#6 2-bromonaphthalene

R.T.: 7.337 min
Delta R.T.: 0.003 min
Response: 1131659
Conc: 18.03 µg/ml



#7 acenaphthene

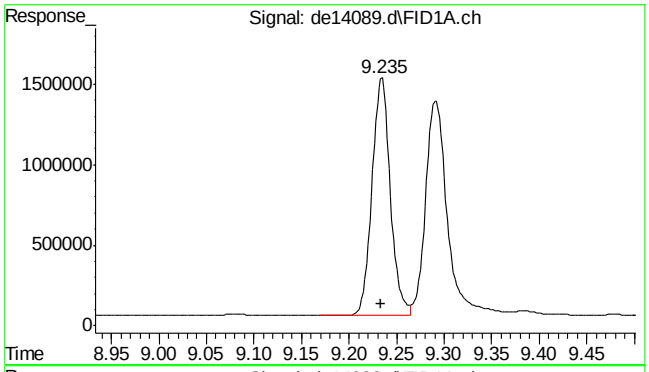
R.T.: 7.410 min
Delta R.T.: 0.000 min
Response: 2004838
Conc: 19.39 µg/ml



#8 fluorene

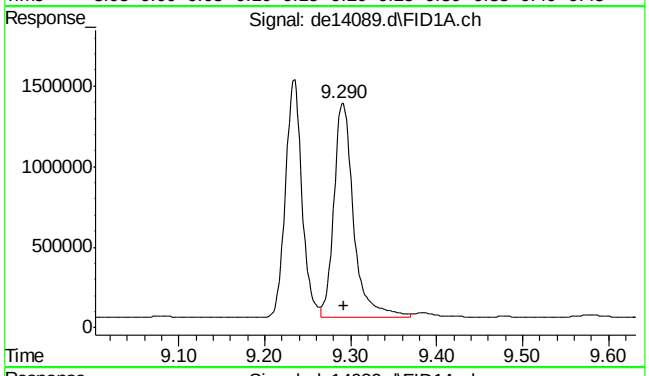
R.T.: 8.055 min
Delta R.T.: 0.002 min
Response: 1920154
Conc: 18.91 µg/ml

SGS ACCUTEST MC45611



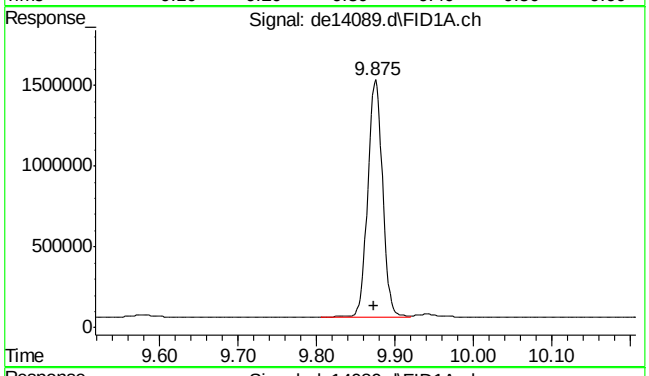
#9 phenanthrene

R.T.: 9.235 min
Delta R.T.: 0.002 min
Response: 1965493
Conc: 19.31 µg/ml



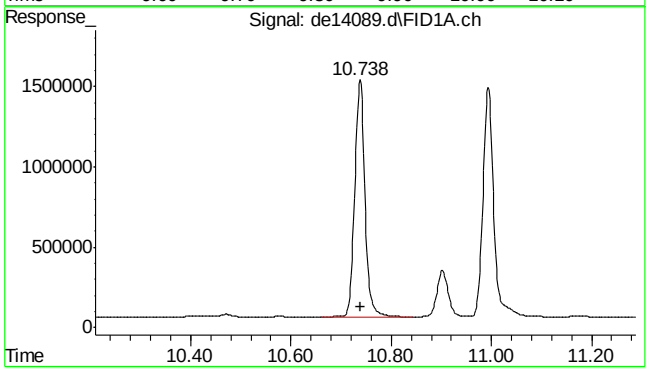
#10 anthracene

R.T.: 9.290 min
Delta R.T.: -0.002 min
Response: 2117334
Conc: 21.83 µg/ml



#11 o-terphenyl

R.T.: 9.875 min
Delta R.T.: 0.002 min
Response: 1924747
Conc: 18.79 µg/ml



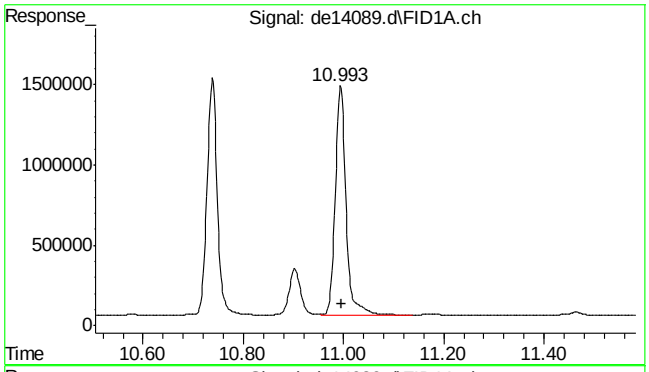
#12 fluoranthene

R.T.: 10.738 min
Delta R.T.: 0.000 min
Response: 2100492
Conc: 21.02 µg/ml

9.3.3

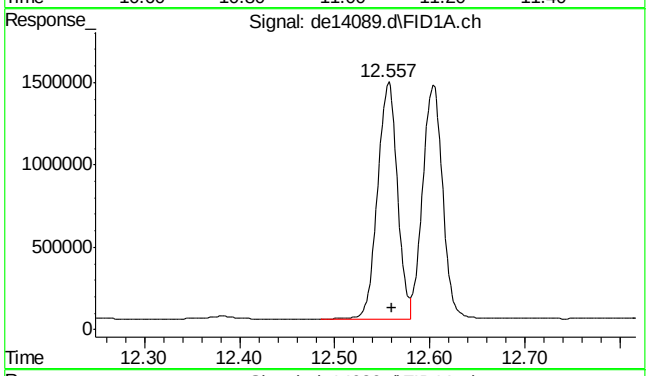
9

SGS ACCUTEST MC45611



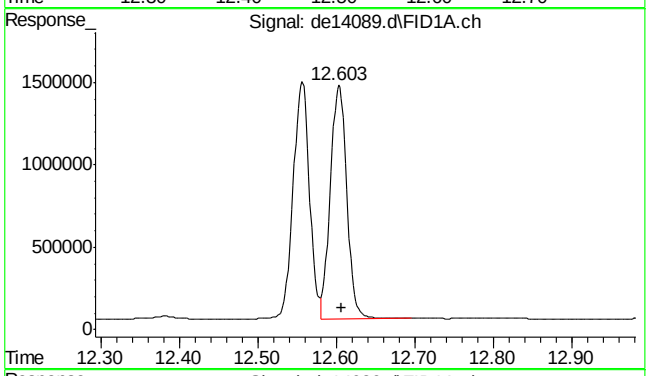
#13 pyrene

R.T.: 10.993 min
Delta R.T.: -0.002 min
Response: 2117925
Conc: 20.87 µg/ml



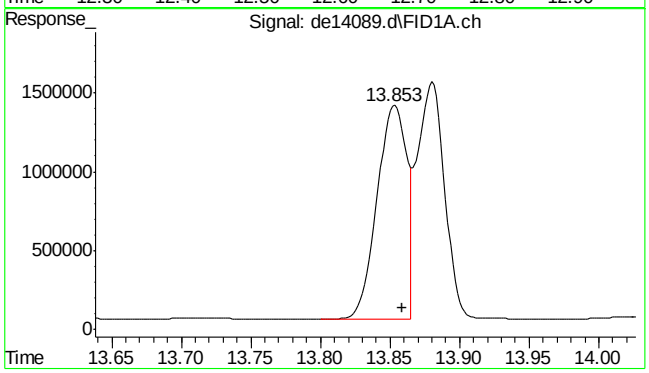
#14 benzo(a)anthracene

R.T.: 12.557 min
Delta R.T.: -0.003 min
Response: 2080180
Conc: 21.52 µg/ml



#15 chrysene

R.T.: 12.603 min
Delta R.T.: -0.003 min
Response: 2058825
Conc: 21.15 µg/ml



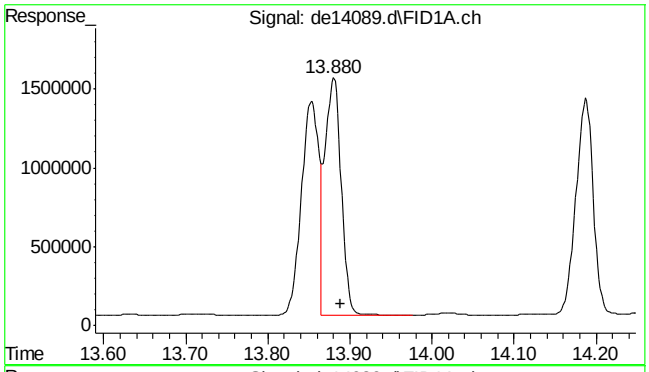
#16 benzo(B)fluoranthene

R.T.: 13.853 min
Delta R.T.: -0.005 min
Response: 2043945
Conc: 20.65 µg/ml

9.3.3

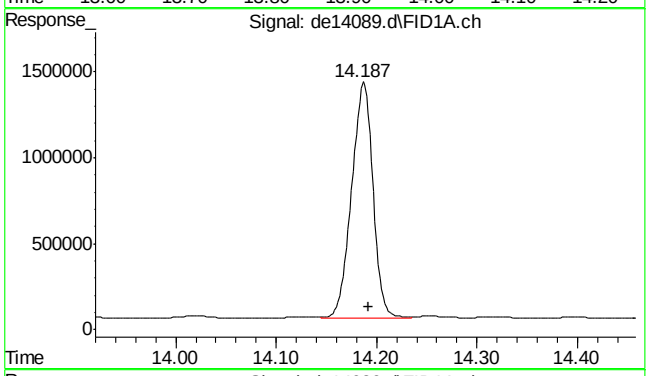
9

SGS ACCUTEST MC45611



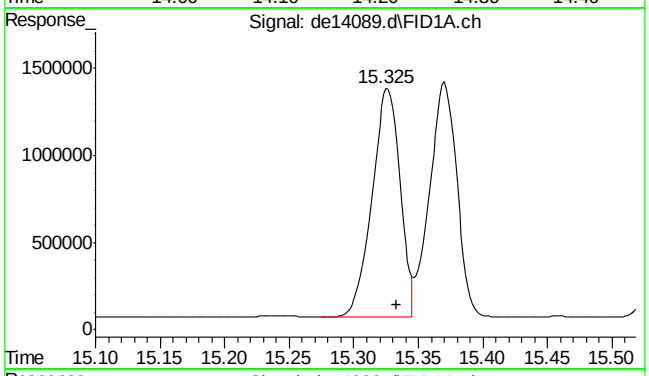
#17 benzo(k)fluoranthene

R.T.: 13.880 min
Delta R.T.: -0.008 min
Response: 2032129
Conc: 21.50 µg/ml



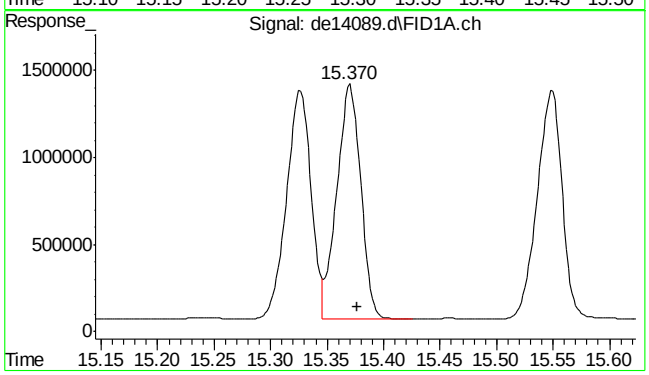
#18 benzo(a)pyrene

R.T.: 14.187 min
Delta R.T.: -0.005 min
Response: 2010522
Conc: 21.75 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.325 min
Delta R.T.: -0.008 min
Response: 1983068
Conc: 20.95 µg/ml



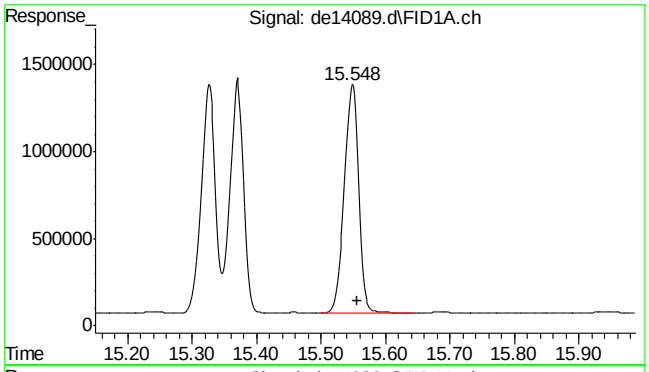
#20 dibenzo(ah)anthracene

R.T.: 15.370 min
Delta R.T.: -0.007 min
Response: 1980102
Conc: 21.66 µg/ml

9.3.3

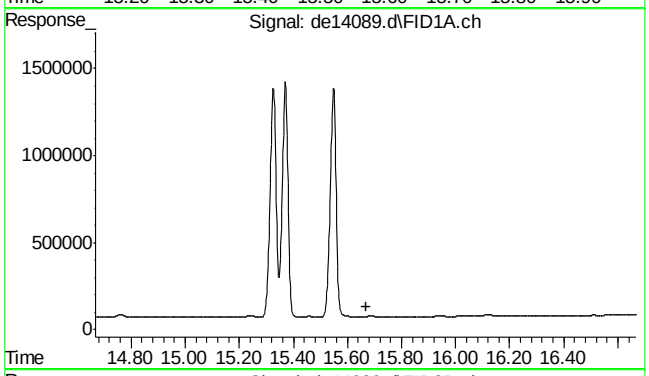
9

SGS ACCUTEST MC45611



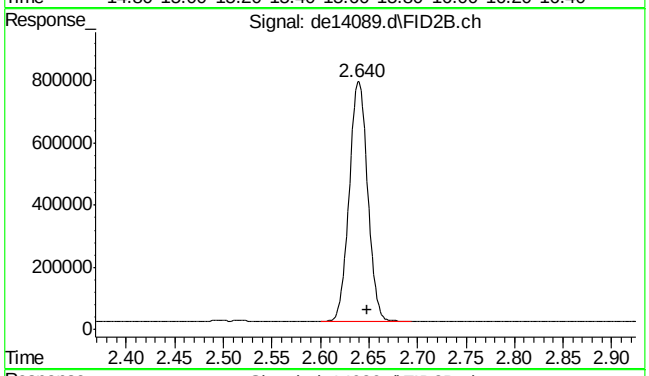
#21 benzo(ghi)perylene

R.T.: 15.548 min
Delta R.T.: -0.008 min
Response: 2007840
Conc: 21.80 µg/ml



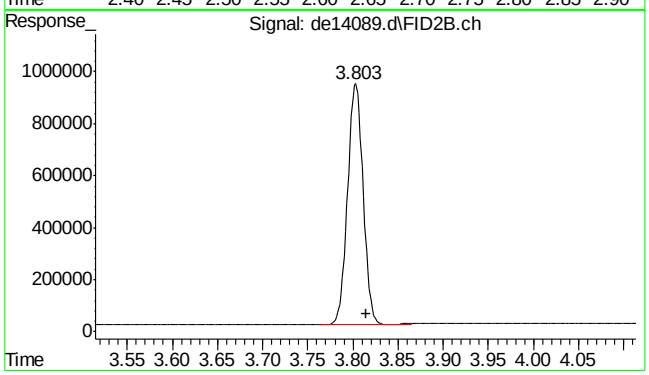
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1013348
Conc: 13.72 µg/ml m



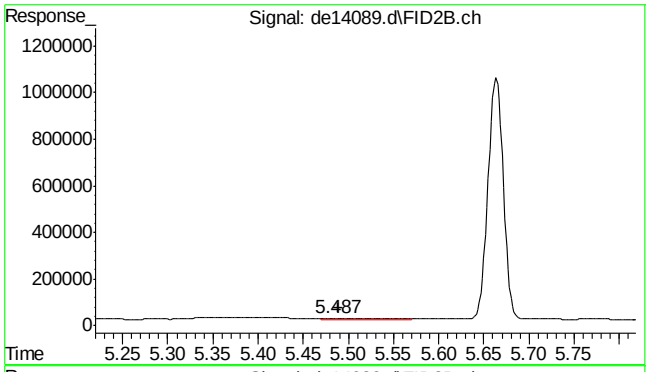
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1119744
Conc: 15.16 µg/ml

9.3.3

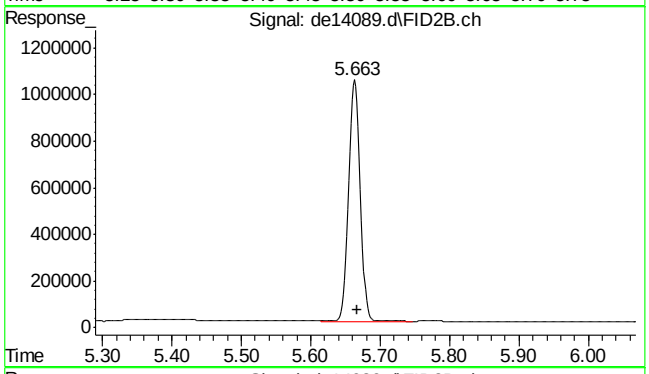
9

SGS ACCUTEST MC45611



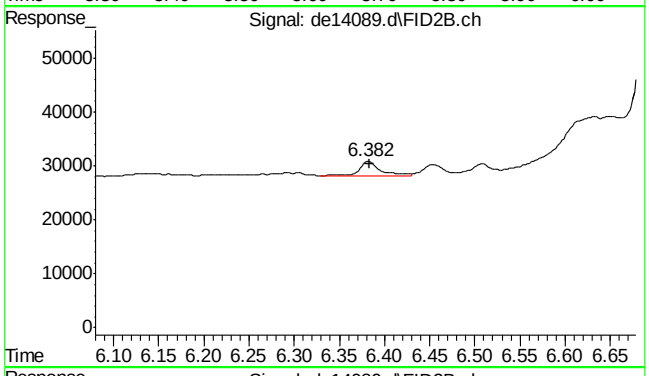
#27 naphthalene #2

R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 9842
Conc: 0.12 µg/ml



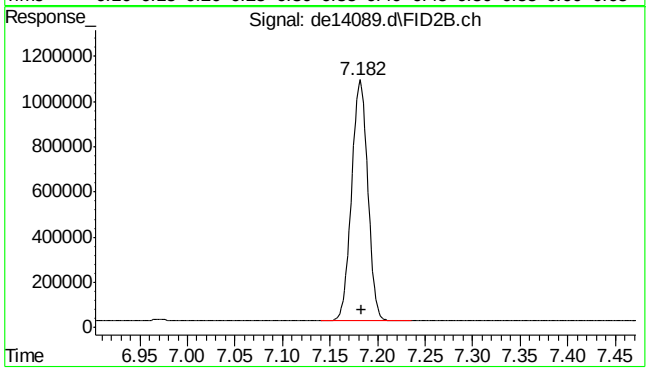
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.003 min
Response: 1212491
Conc: 16.41 µg/ml



#29 2-methylnaphthalene #2

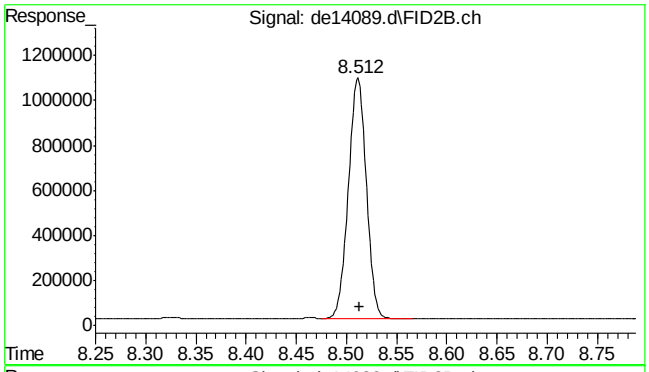
R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 4348
Conc: 0.05 µg/ml



#30 c-14

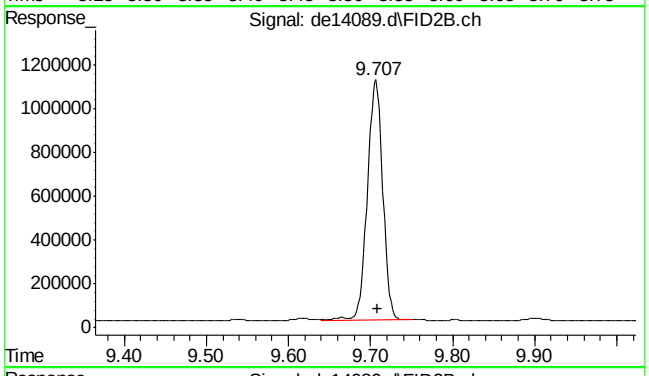
R.T.: 7.182 min
Delta R.T.: -0.002 min
Response: 1265025
Conc: 17.12 µg/ml

SGS ACCUTEST MC45611



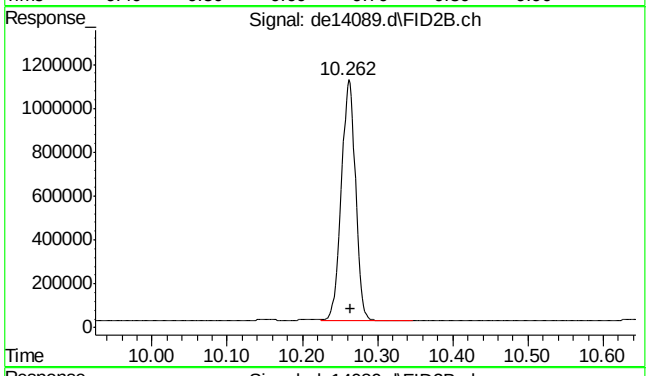
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 1322055
Conc: 17.90 µg/ml



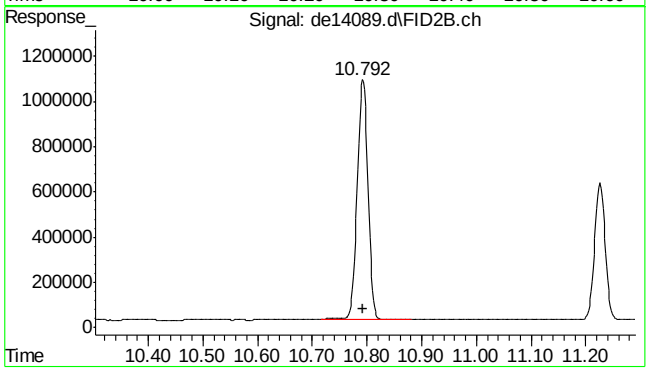
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1423373
Conc: 19.27 µg/ml



#33 c-19

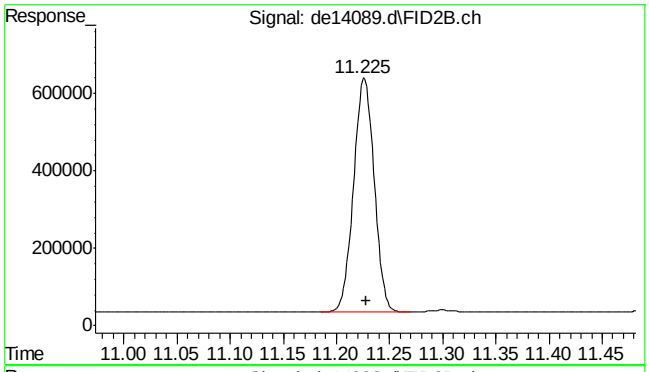
R.T.: 10.262 min
Delta R.T.: -0.002 min
Response: 1430671
Conc: 21.42 µg/ml



#34 c-20

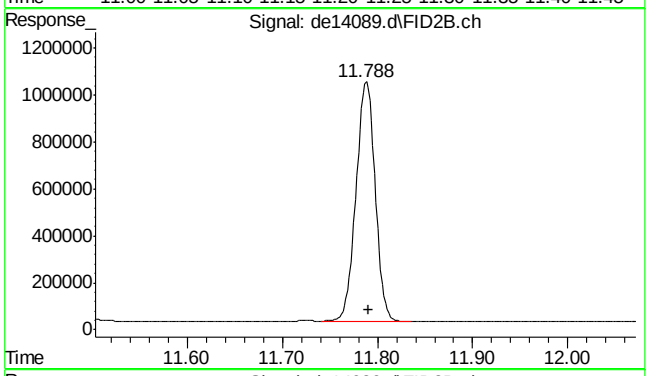
R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1458335
Conc: 21.83 µg/ml

SGS ACCUTEST MC45611



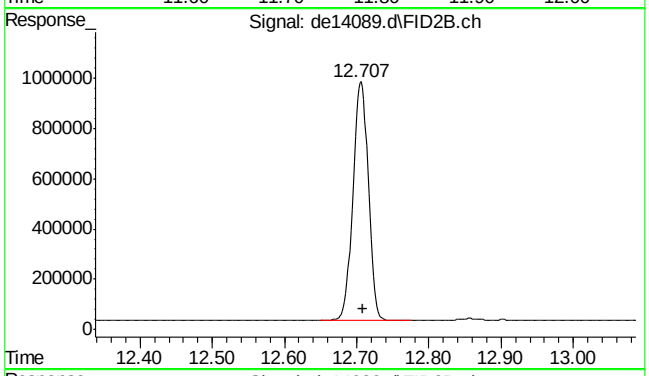
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 817365
Conc: 14.45 µg/ml



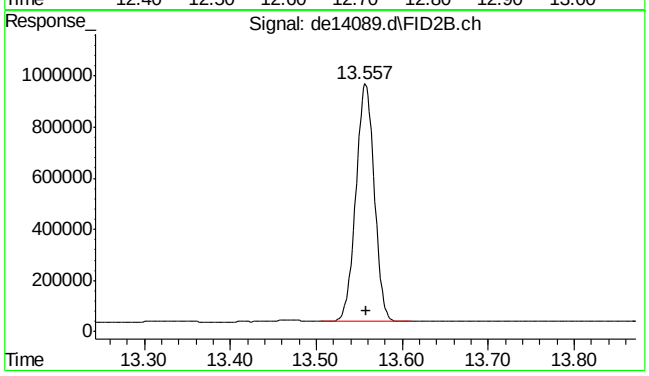
#36 c-22

R.T.: 11.788 min
Delta R.T.: -0.002 min
Response: 1423954
Conc: 21.31 µg/ml



#37 c-24

R.T.: 12.707 min
Delta R.T.: -0.002 min
Response: 1407020
Conc: 21.06 µg/ml



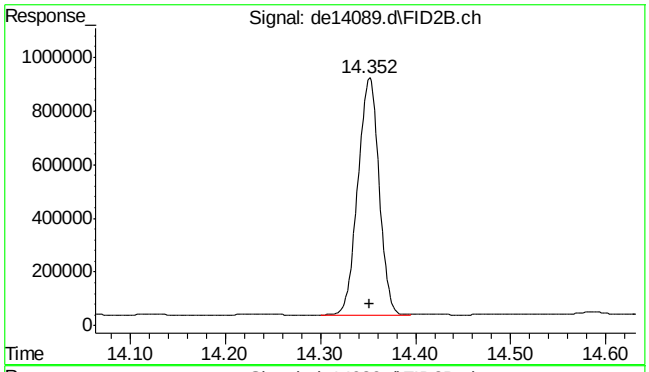
#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1378922
Conc: 20.64 µg/ml

9.3.3

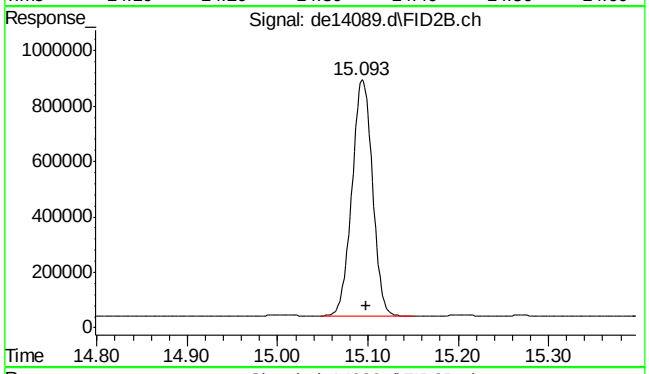
9

SGS ACCUTEST MC45611



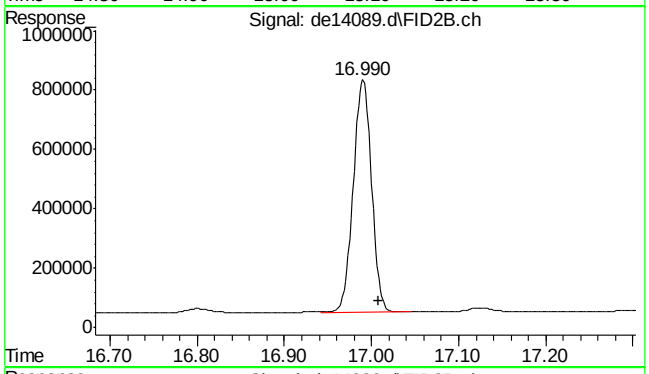
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.000 min
Response: 1361030
Conc: 20.37 µg/ml



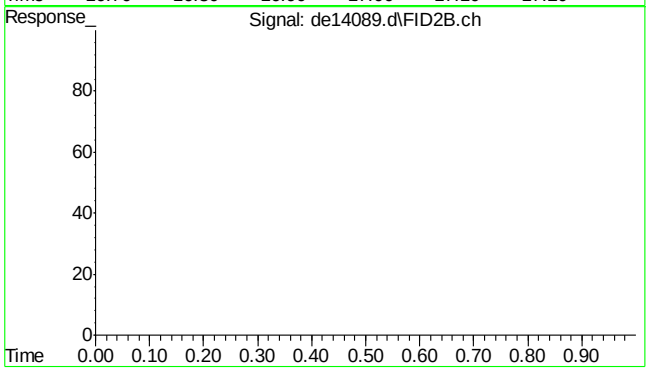
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1357326
Conc: 20.32 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1137539
Conc: 17.03 µg/ml m



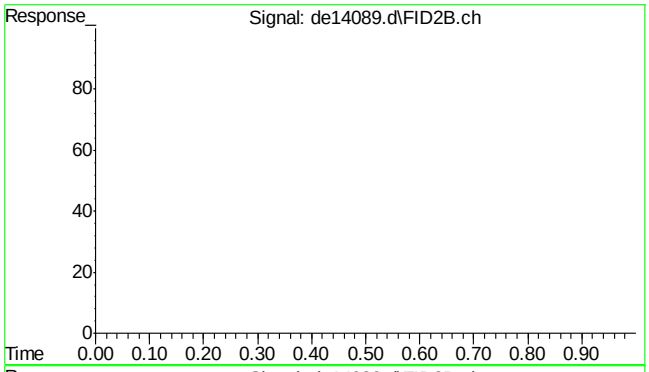
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.3

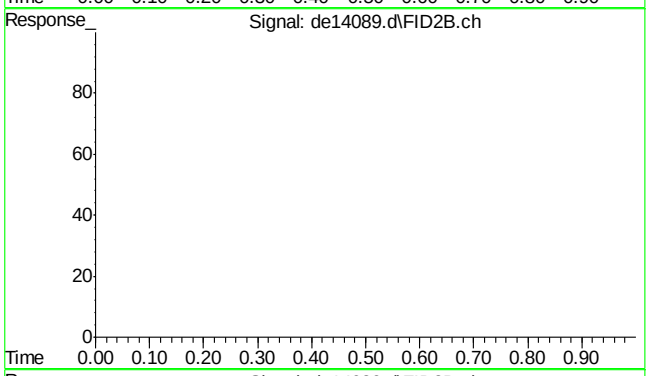
9

SGS ACCUTEST MC45611



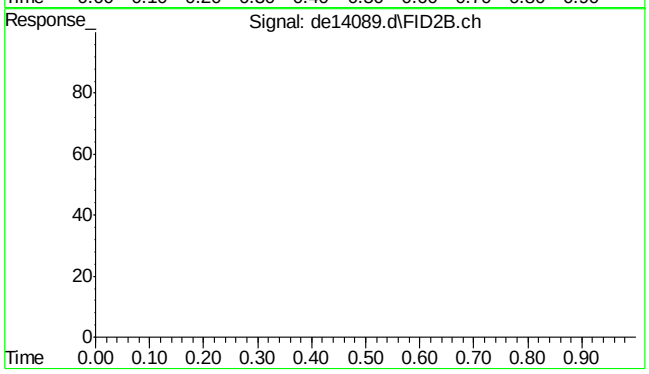
#43 bht

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\DE160516EPH\
Data File : de14090.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 9:17 am
Operator : thomasa
Sample : op47424-bsd
Misc : op47424,gde791,11.22,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:43:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1536098	16.655 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	83.28%#
6) s 2-bromonaphthalene	7.333	991468	15.799 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	78.99%#
11) s o-terphenyl	9.870	1699631	16.594 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	82.97%#
35) s 1-chlorooctadecane	11.225	873876	15.446 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	77.23%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	33291752	339.004 µg/mlm
2) naphthalene	5.155	1467131	14.225 µg/ml
3) 2-methylnaphthalene	6.053	1495868	14.596 µg/ml
5) acenaphthylene	7.167	1588390	15.789 µg/ml
7) acenaphthene	7.407	1800471	17.417 µg/ml
8) fluorene	8.052	1707155	16.808 µg/ml
9) phenanthrene	9.230	1749666	17.194 µg/ml
10) anthracene	9.288	1919606	19.788 µg/ml
12) fluoranthene	10.733	1919296	19.204 µg/ml
13) pyrene	10.992	1960721	19.325 µg/ml
14) benzo(a)anthracene	12.553	1889984	19.550 µg/ml
15) chrysene	12.600	1922211	19.747 µg/ml
16) benzo(B)fluoranthene	13.850	2006721	20.269 µg/ml
17) benzo(k)fluoranthene	13.878	1762265	18.648 µg/ml
18) benzo(a)pyrene	14.187	1861273	20.136 µg/ml
19) indeno(1,2,3-cd)pyrene	15.325	1873536	19.793 µg/ml
20) dibenzo(ah)anthracene	15.367	1814331	19.851 µg/ml
21) benzo(ghi)perylene	15.543	1863030	20.223 µg/ml
25) h c-9	2.648	1042871	14.117 µg/mlm
26) h c-10	3.815	1149595	15.562 µg/ml
27) naphthalene #2	5.487	6582	0.082 µg/ml
28) c-12	5.663	1211307	16.397 µg/ml
29) 2-methylnaphthalene #2	6.382	3810	0.047 µg/ml
30) c-14	7.180	1263625	17.106 µg/ml
31) c-16	8.510	1315330	17.805 µg/ml
32) c-18	9.705	1432202	19.388 µg/ml
33) c-19	10.260	1439281	21.544 µg/ml
34) c-20	10.792	1465146	21.931 µg/ml
36) c-22	11.787	1451989	21.734 µg/ml
37) c-24	12.705	1436096	21.496 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14090.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 9:17 am
Operator : thomasa
Sample : op47424-bsd
Misc : op47424,gde791,11.22,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:43:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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	13.555	1408121	21.078 µg/ml
39)	c-28	14.348	1392248	20.840 µg/ml
40) h	c-30	15.098	1385655	20.741 µg/ml
41) h	c-36	17.008	1166238	17.457 µg/mlm

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

9.3.4

9

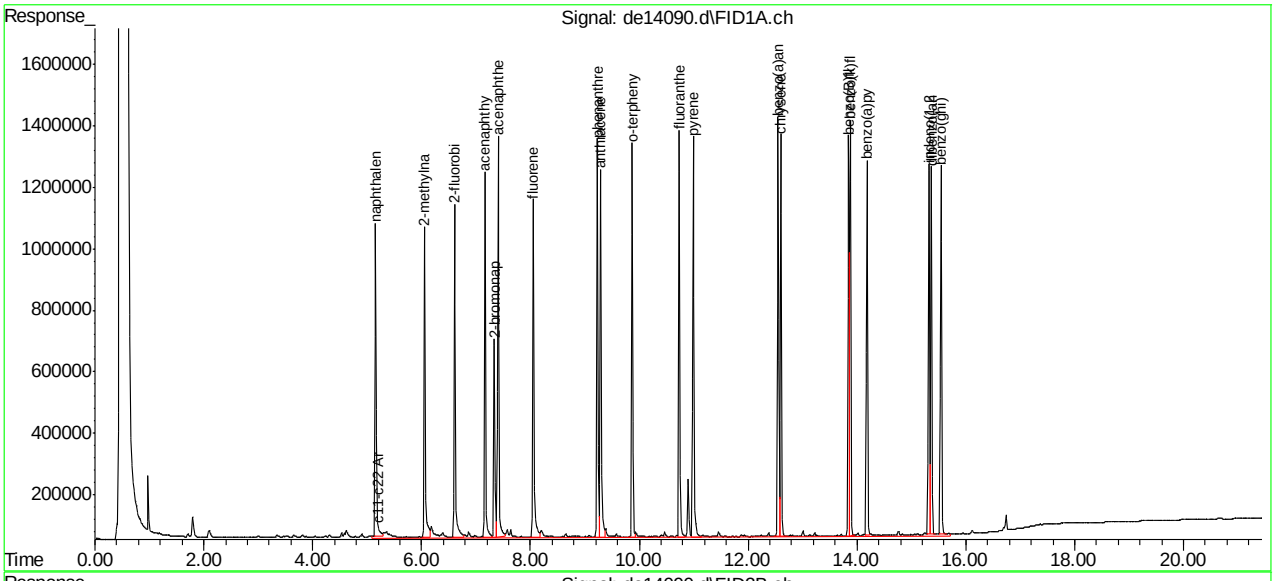
SGS ACCUTEST MC45611

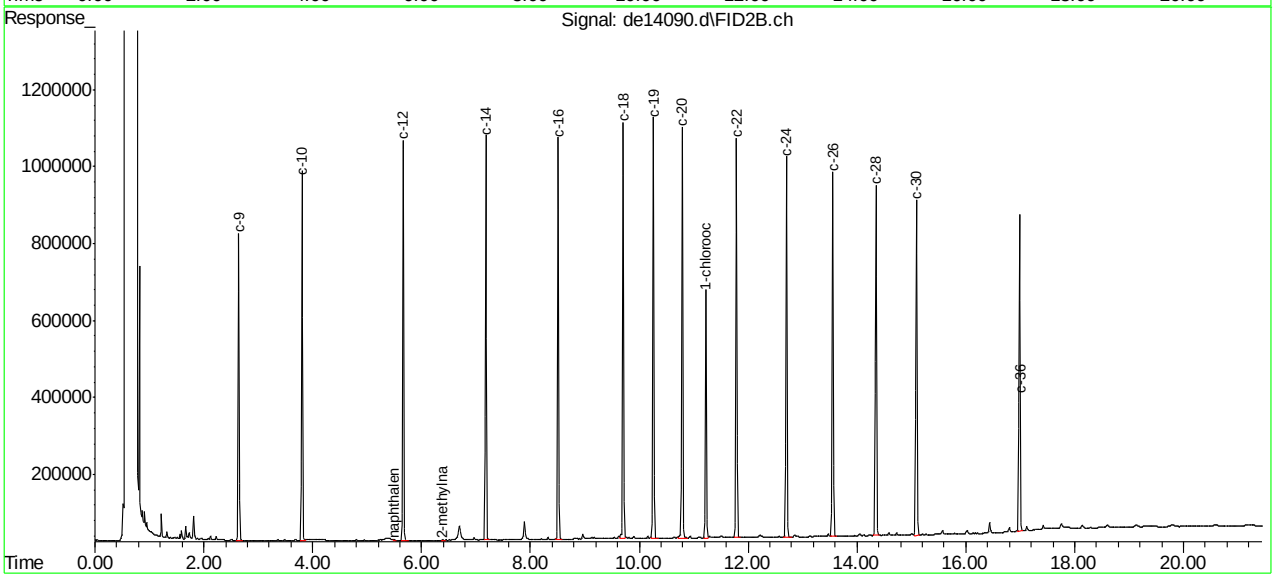
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14090.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 9:17 am
Operator : thomasa
Sample : op47424-bsd
Misc : op47424,gde791,11.22,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

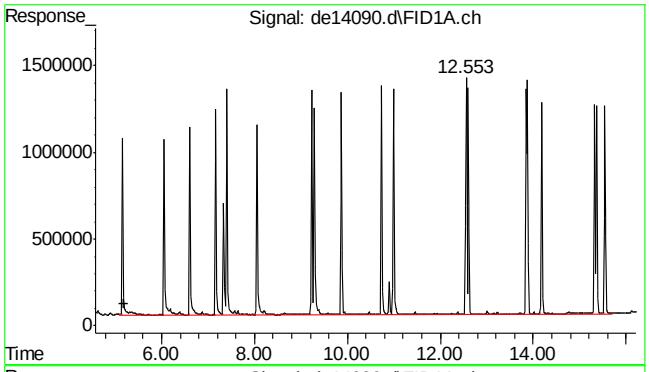
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 10:43:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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



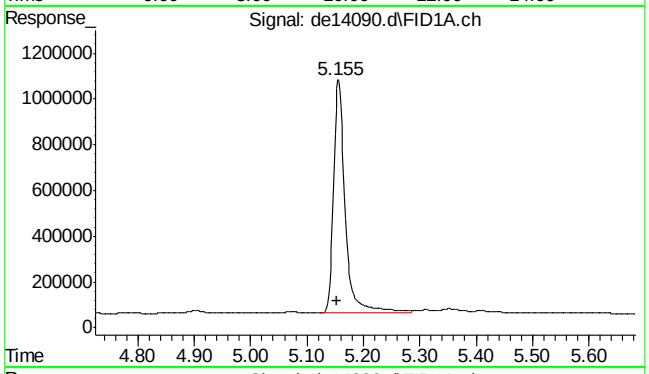


SGS ACCUTEST MC45611



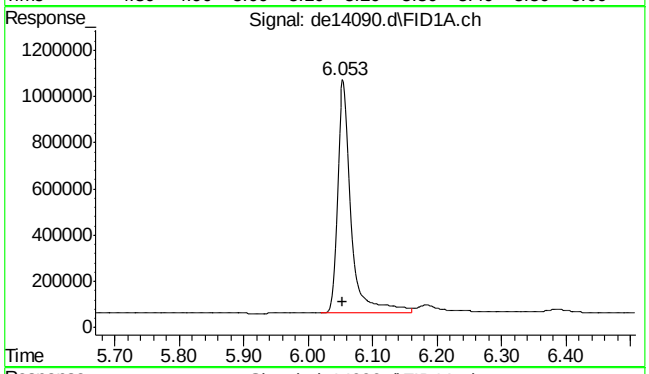
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 33291752
Conc: 339.00 µg/ml m



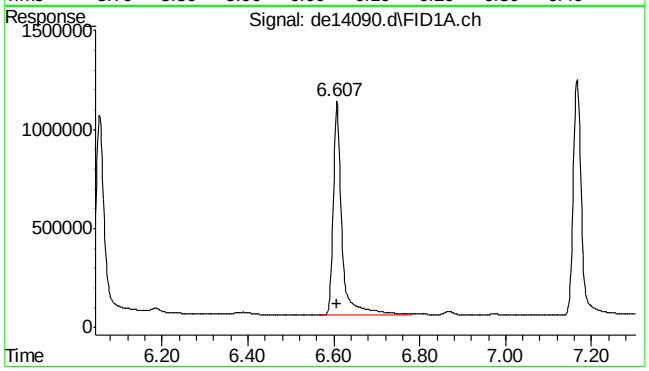
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.002 min
Response: 1467131
Conc: 14.22 µg/ml



#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.000 min
Response: 1495868
Conc: 14.60 µg/ml



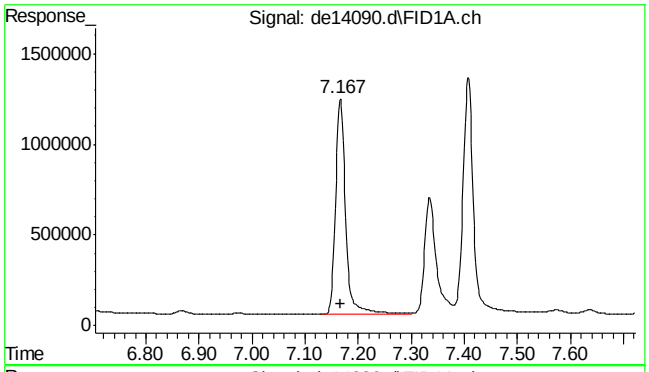
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.000 min
Response: 1536098
Conc: 16.66 µg/ml

9.3.4

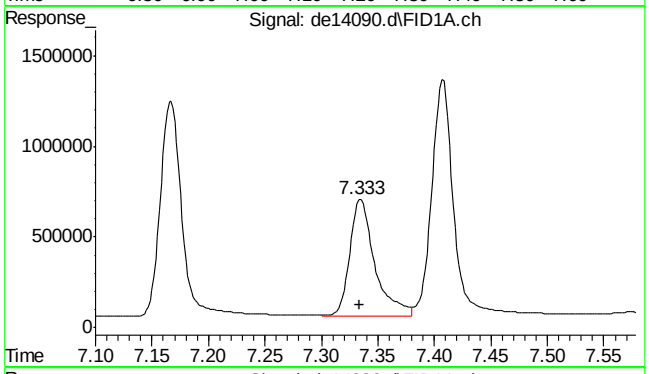
9

SGS ACCUTEST MC45611



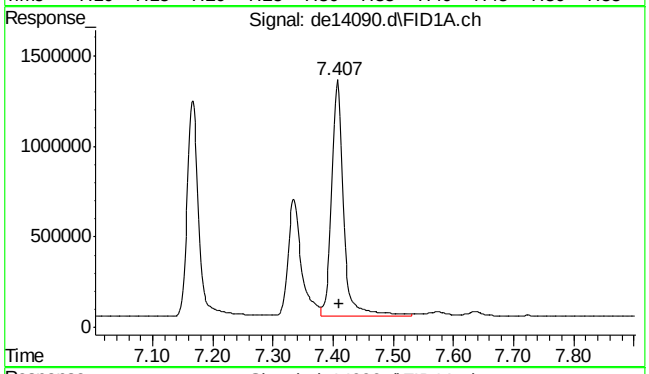
#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 1588390
Conc: 15.79 µg/ml



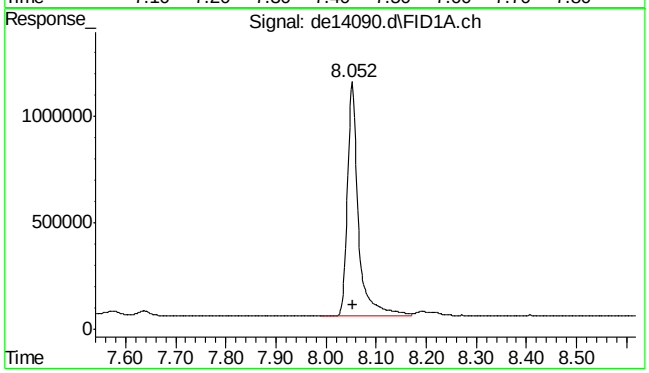
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 991468
Conc: 15.80 µg/ml



#7 acenaphthene

R.T.: 7.407 min
Delta R.T.: -0.003 min
Response: 1800471
Conc: 17.42 µg/ml



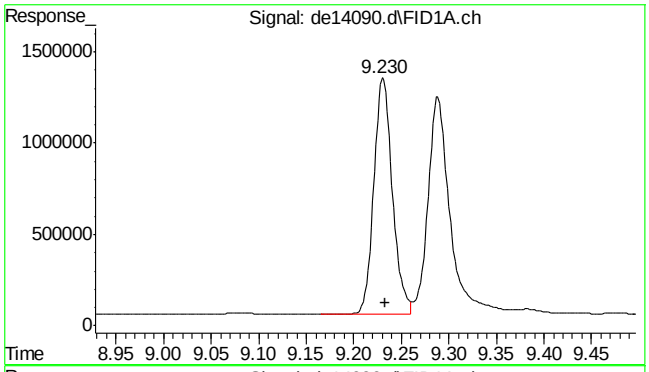
#8 fluorene

R.T.: 8.052 min
Delta R.T.: -0.002 min
Response: 1707155
Conc: 16.81 µg/ml

9.3.4

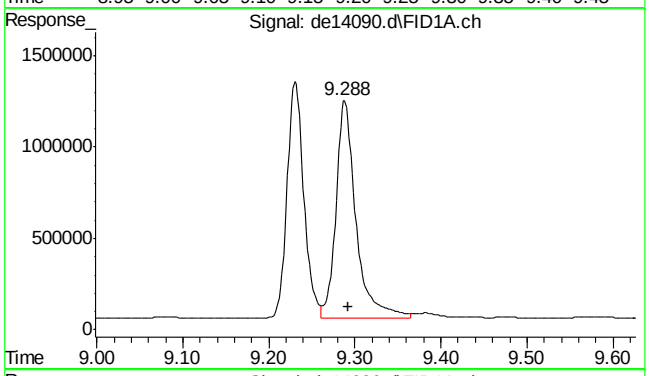
9

SGS ACCUTEST MC45611



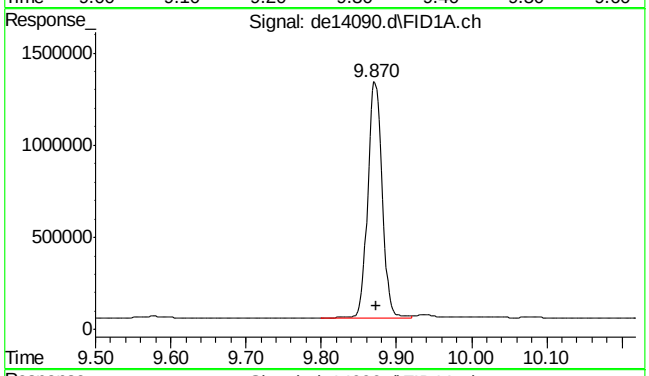
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: -0.003 min
Response: 1749666
Conc: 17.19 µg/ml



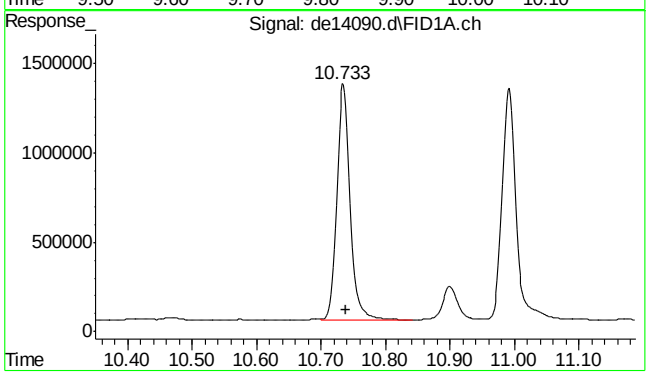
#10 anthracene

R.T.: 9.288 min
Delta R.T.: -0.003 min
Response: 1919606
Conc: 19.79 µg/ml



#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: -0.003 min
Response: 1699631
Conc: 16.59 µg/ml



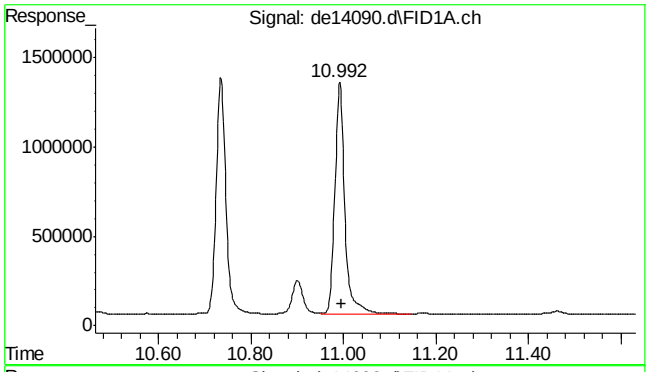
#12 fluoranthene

R.T.: 10.733 min
Delta R.T.: -0.005 min
Response: 1919296
Conc: 19.20 µg/ml

9.3.4

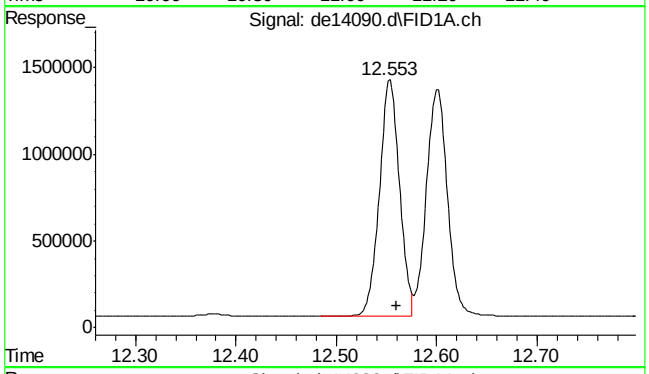
9

SGS ACCUTEST MC45611



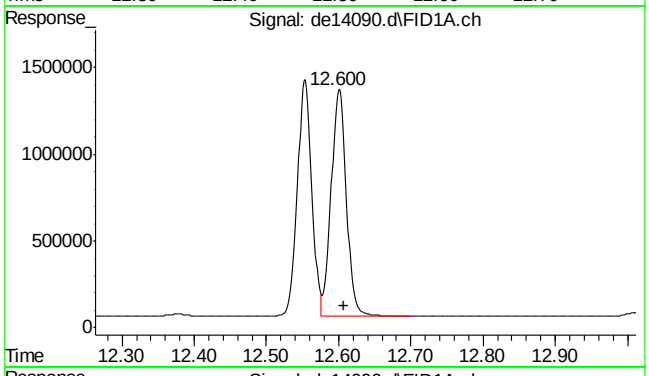
#13 pyrene

R.T.: 10.992 min
Delta R.T.: -0.003 min
Response: 1960721
Conc: 19.32 µg/ml



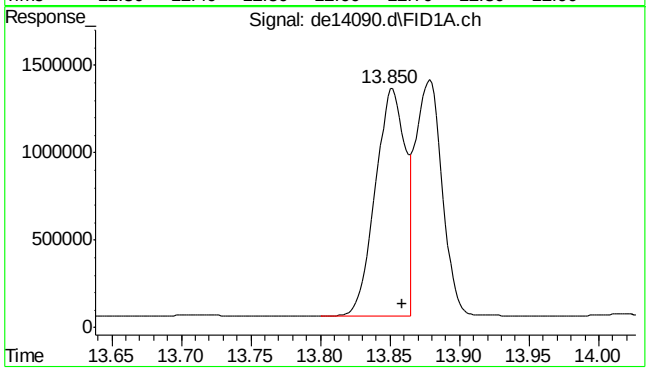
#14 benzo(a)anthracene

R.T.: 12.553 min
Delta R.T.: -0.007 min
Response: 1889984
Conc: 19.55 µg/ml



#15 chrysene

R.T.: 12.600 min
Delta R.T.: -0.007 min
Response: 1922211
Conc: 19.75 µg/ml



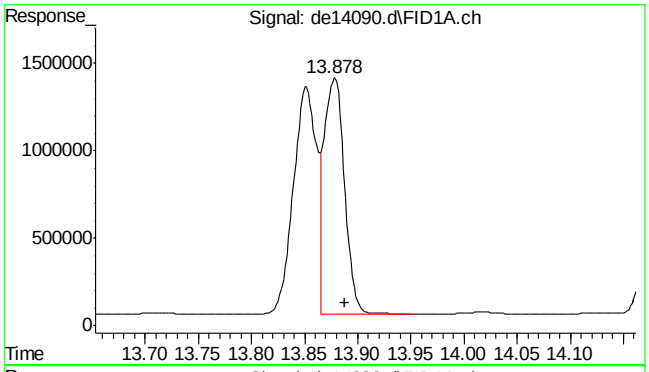
#16 benzo(B)fluoranthene

R.T.: 13.850 min
Delta R.T.: -0.008 min
Response: 2006721
Conc: 20.27 µg/ml

9.3.4

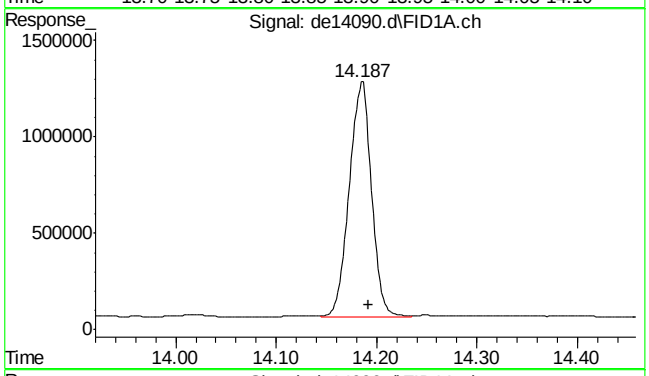
9

SGS ACCUTEST MC45611



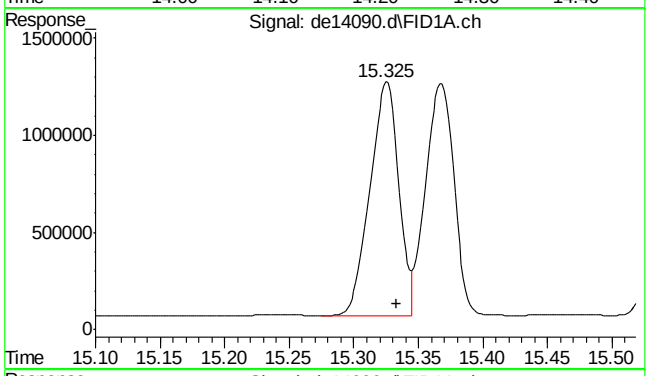
#17 benzo(k)fluoranthene

R.T.: 13.878 min
Delta R.T.: -0.010 min
Response: 1762265
Conc: 18.65 µg/ml



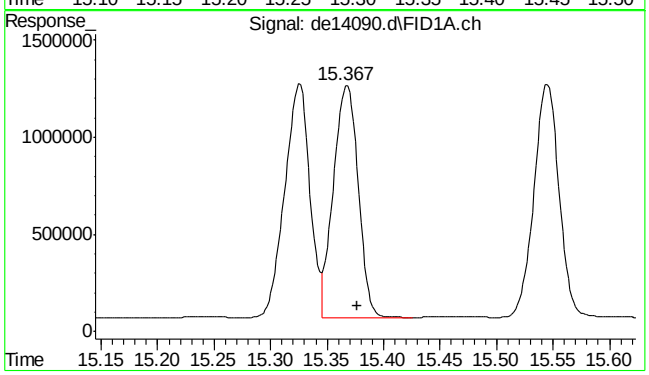
#18 benzo(a)pyrene

R.T.: 14.187 min
Delta R.T.: -0.005 min
Response: 1861273
Conc: 20.14 µg/ml



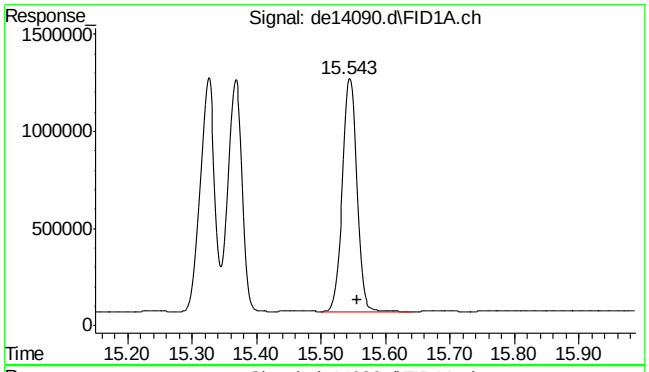
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.325 min
Delta R.T.: -0.008 min
Response: 1873536
Conc: 19.79 µg/ml



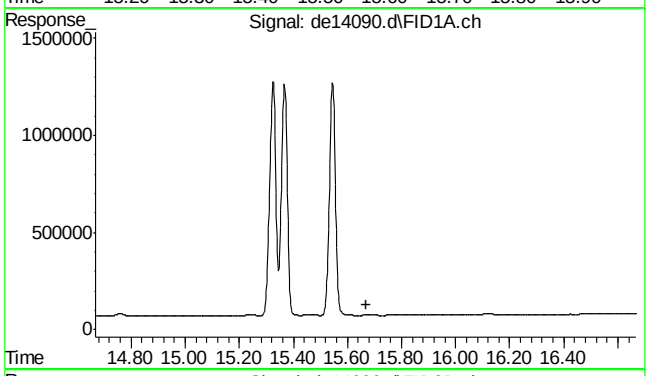
#20 dibenzo(ah)anthracene

R.T.: 15.367 min
Delta R.T.: -0.010 min
Response: 1814331
Conc: 19.85 µg/ml



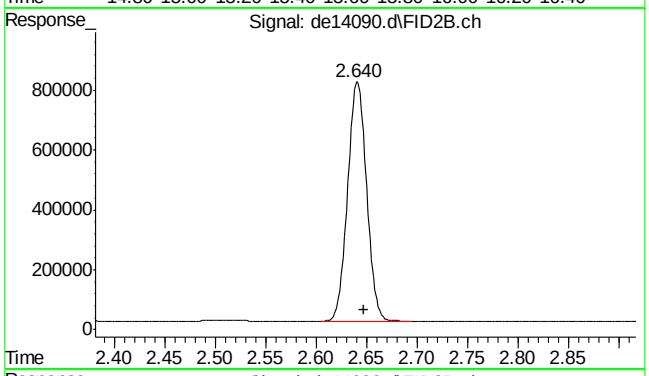
#21 benzo(ghi)perylene

R.T.: 15.543 min
Delta R.T.: -0.013 min
Response: 1863030
Conc: 20.22 µg/ml



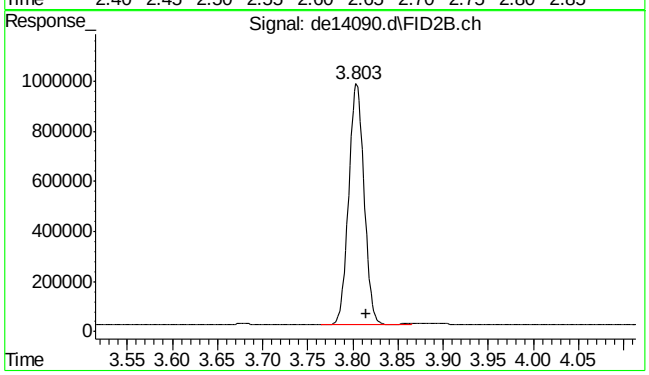
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1042871
Conc: 14.12 µg/ml m



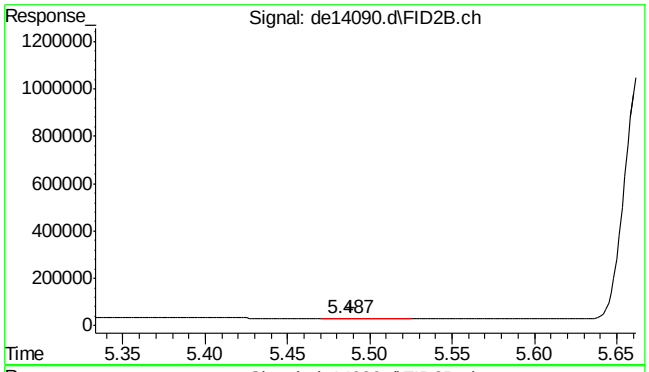
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1149595
Conc: 15.56 µg/ml

9.3.4

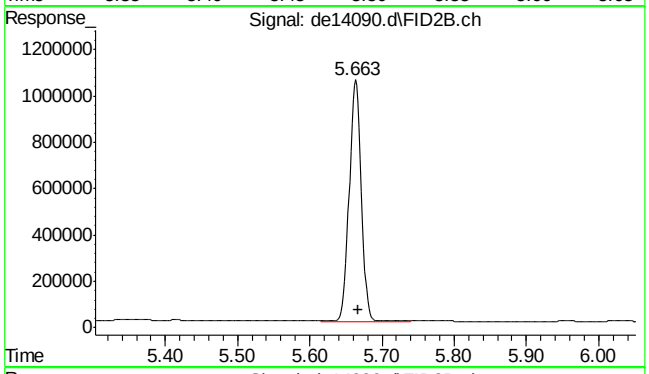
9

SGS ACCUTEST MC45611



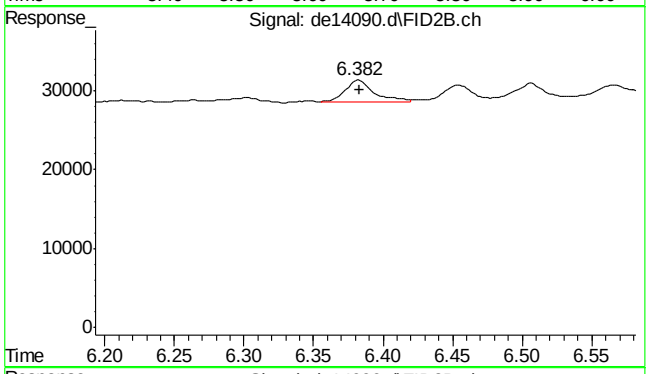
#27 naphthalene #2

R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 6582
Conc: 0.08 µg/ml



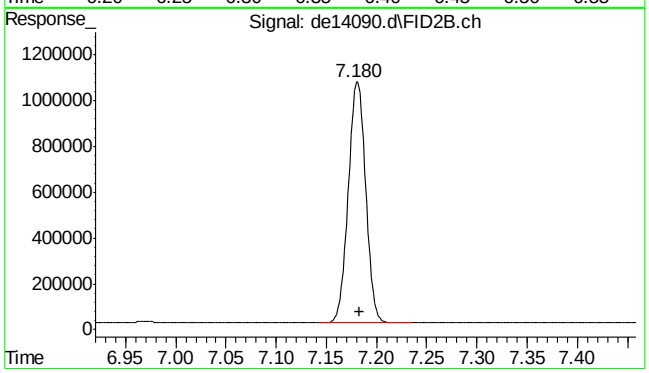
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.003 min
Response: 1211307
Conc: 16.40 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 3810
Conc: 0.05 µg/ml



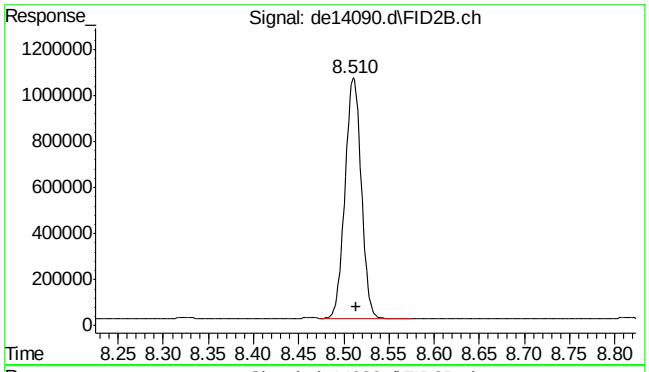
#30 c-14

R.T.: 7.180 min
Delta R.T.: -0.003 min
Response: 1263625
Conc: 17.11 µg/ml

9.3.4

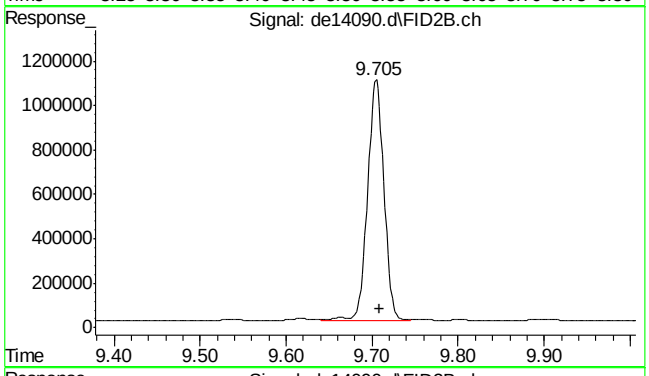
9

SGS ACCUTEST MC45611



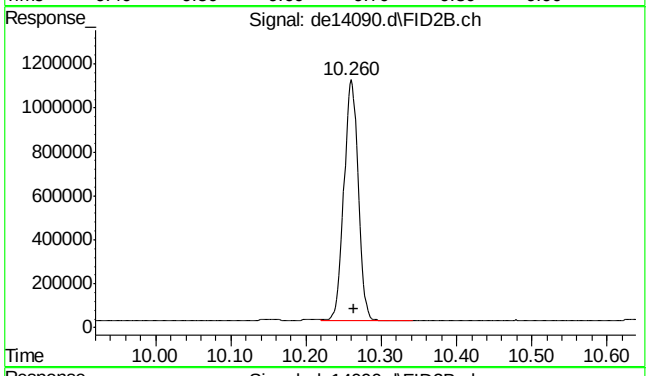
#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.003 min
Response: 1315330
Conc: 17.81 µg/ml



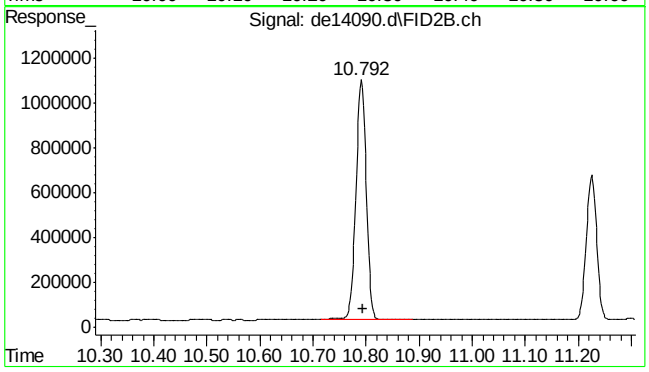
#32 c-18

R.T.: 9.705 min
Delta R.T.: -0.003 min
Response: 1432202
Conc: 19.39 µg/ml



#33 c-19

R.T.: 10.260 min
Delta R.T.: -0.003 min
Response: 1439281
Conc: 21.54 µg/ml



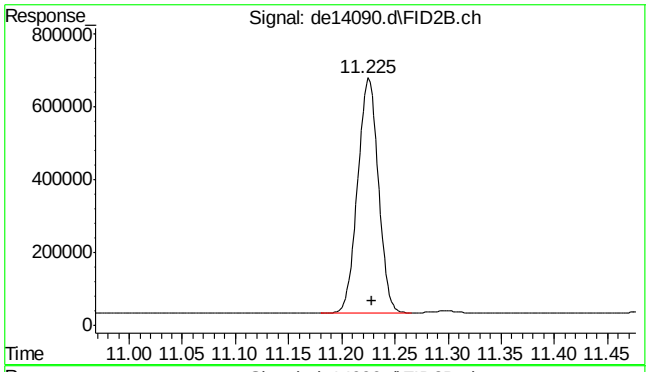
#34 c-20

R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1465146
Conc: 21.93 µg/ml

9.3.4

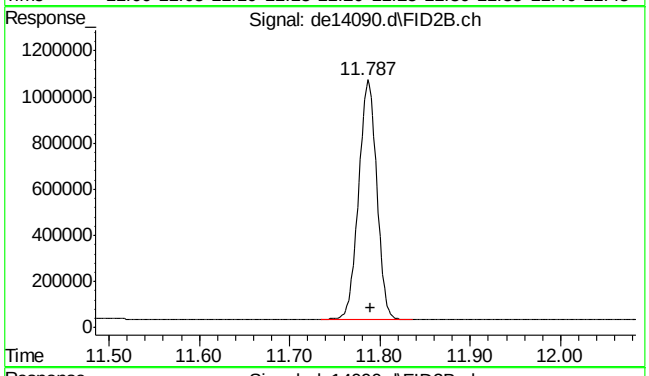
9

SGS ACCUTEST MC45611



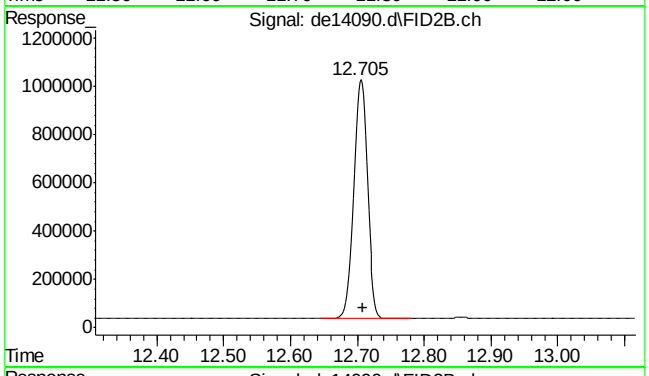
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 873876
Conc: 15.45 µg/ml



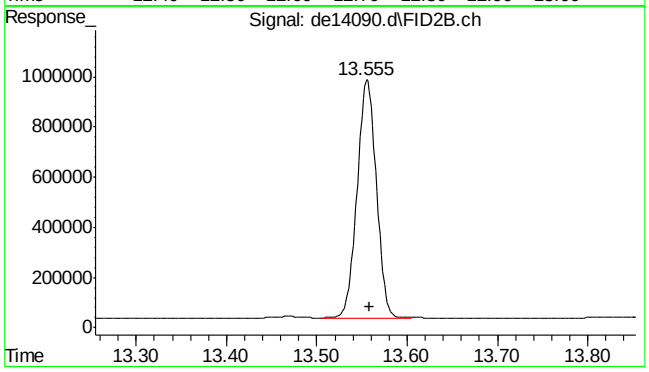
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.003 min
Response: 1451989
Conc: 21.73 µg/ml



#37 c-24

R.T.: 12.705 min
Delta R.T.: -0.003 min
Response: 1436096
Conc: 21.50 µg/ml



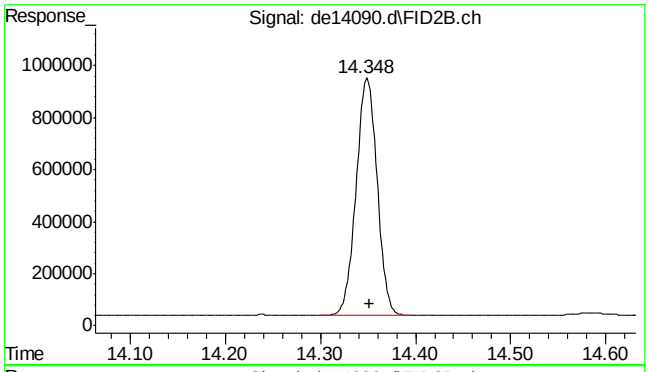
#38 c-26

R.T.: 13.555 min
Delta R.T.: -0.003 min
Response: 1408121
Conc: 21.08 µg/ml

9.3.4

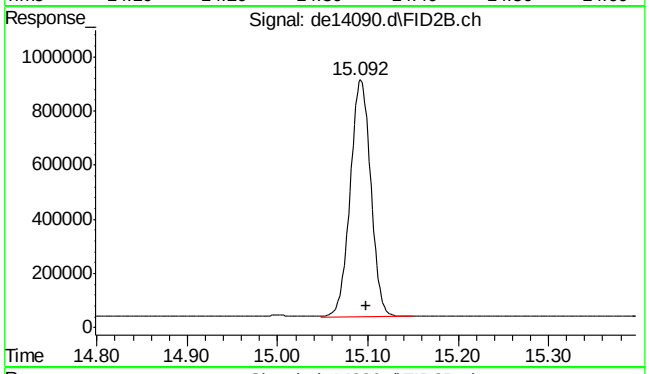
9

SGS ACCUTEST MC45611



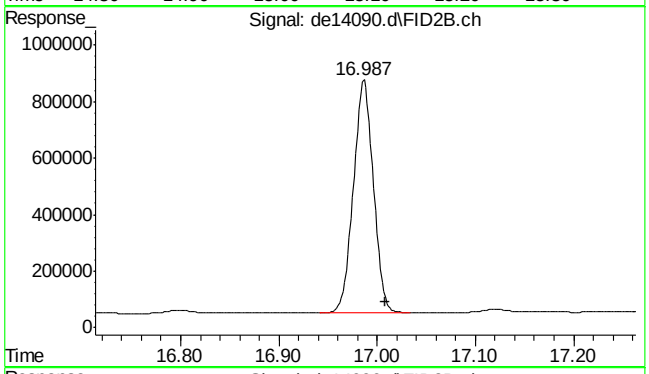
#39 c-28

R.T.: 14.348 min
Delta R.T.: -0.003 min
Response: 1392248
Conc: 20.84 µg/ml



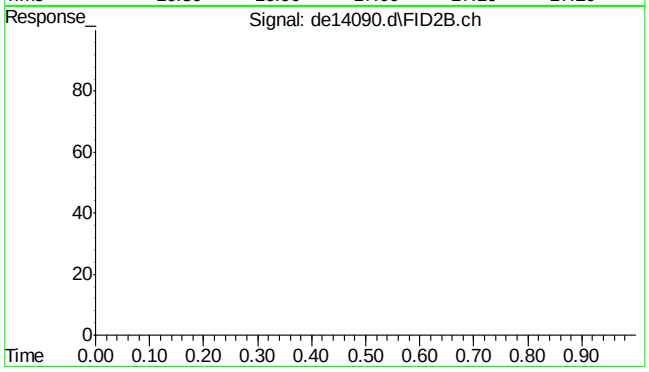
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1385655
Conc: 20.74 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1166238
Conc: 17.46 µg/ml m



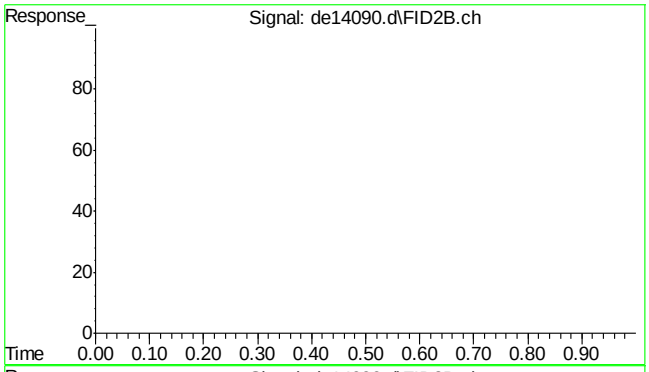
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.4

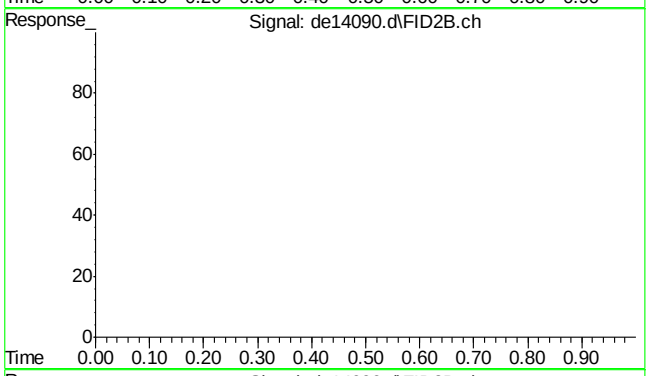
9

SGS ACCUTEST MC45611



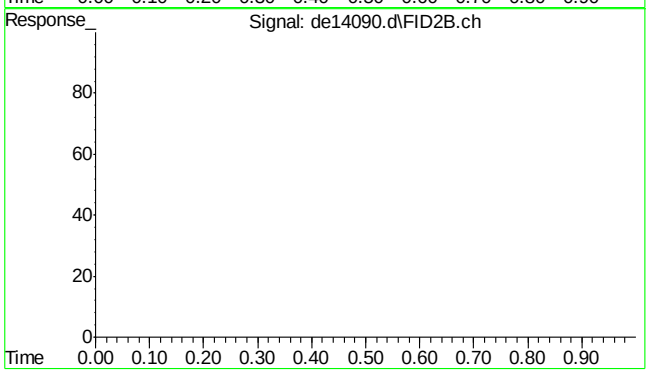
#43 bht

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\DE160502aEPH\
Data File : de14009.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:05 pm
Operator : thomasa
Sample : op47292-ms
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:52:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	1765658	19.144 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 95.72%#	
6) s 2-bromonaphthalene	7.423	1043453	16.627 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.13%#	
11) s o-terphenyl	9.960	1706927	16.665 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.32%#	
35) s 1-chlorooctadecane	11.225	739086	13.064 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 65.32%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	40364147	411.021 µg/mlm
2) naphthalene	5.240	1475365	14.304 µg/ml
3) 2-methylnaphthalene	6.138	1549032	15.115 µg/ml
5) acenaphthylene	7.253	1660630	16.507 µg/ml
7) acenaphthene	7.493	2033858	19.674 µg/ml
8) fluorene	8.142	1854099	18.255 µg/ml
9) phenanthrene	9.325	1989654	19.552 µg/ml
10) anthracene	9.383	2357811	24.305 µg/ml
12) fluoranthene	10.833	2388825	23.902 µg/ml
13) pyrene	11.092	2432627	23.976 µg/ml
14) benzo(a)anthracene	12.657	2467759	25.526 µg/ml
15) chrysene	12.705	2497616	25.658 µg/ml
16) benzo(B)fluoranthene	13.958	2395339	24.195 µg/ml
17) benzo(k)fluoranthene	13.987	2539142	26.869 µg/ml
18) benzo(a)pyrene	14.293	2438064	26.376 µg/ml
19) indeno(1,2,3-cd)pyrene	15.437	2403328	25.390 µg/ml
20) dibenzo(ah)anthracene	15.478	2438373	26.678 µg/ml
21) benzo(ghi)perylene	15.662	2428339	26.360 µg/ml
25) h c-9	2.648	7075299	95.778 µg/mlm
41) h c-36	17.008	13690971	204.935 µg/mlm

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

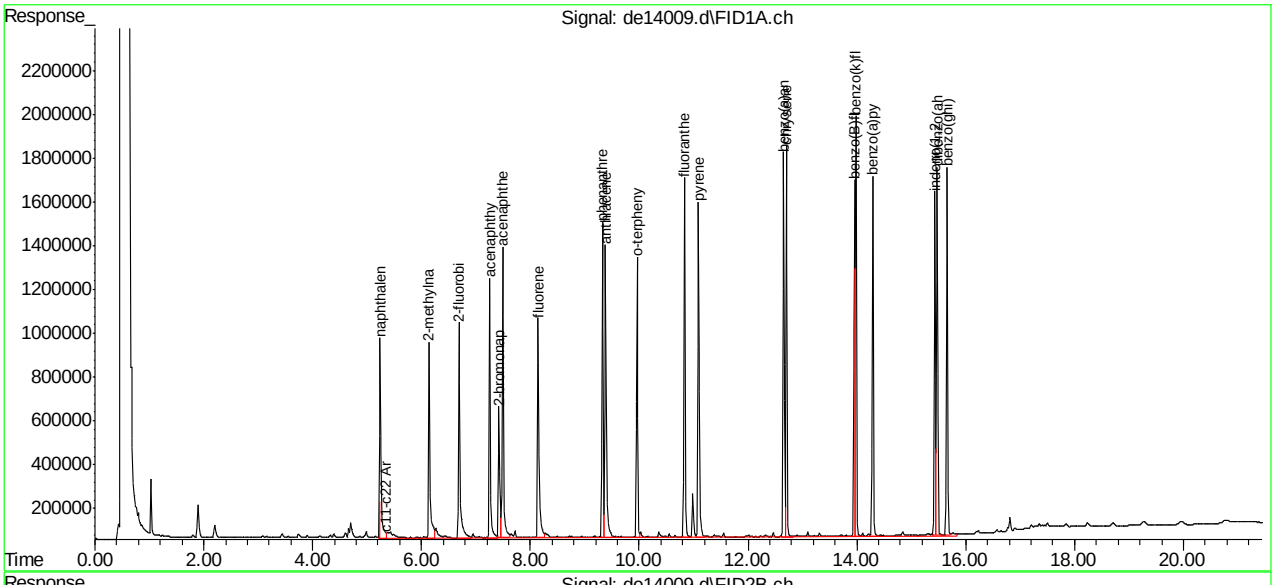
SGS ACCUTEST MC45611

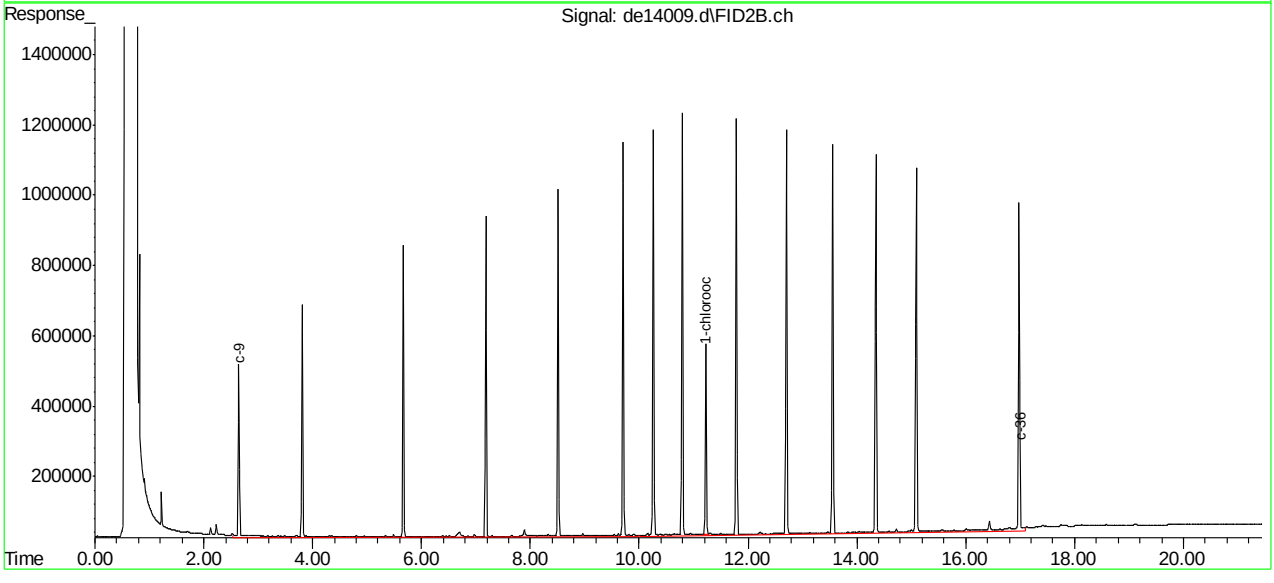
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14009.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:05 pm
Operator : thomasa
Sample : op47292-ms
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

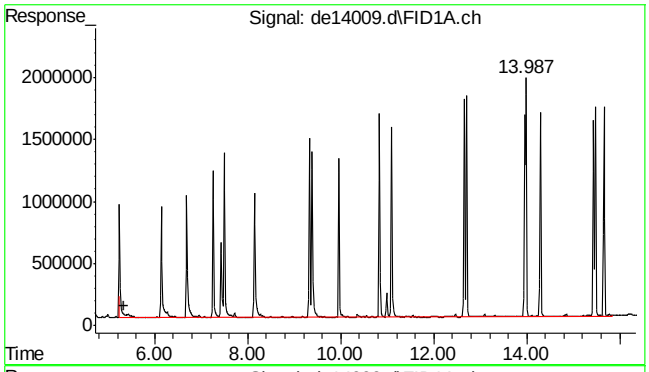
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:52:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



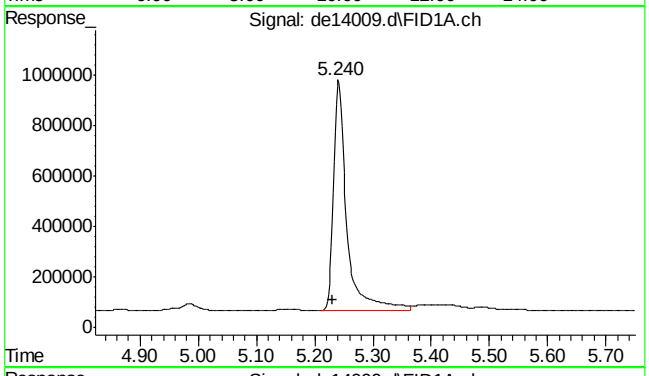


SGS ACCUTEST MC45611



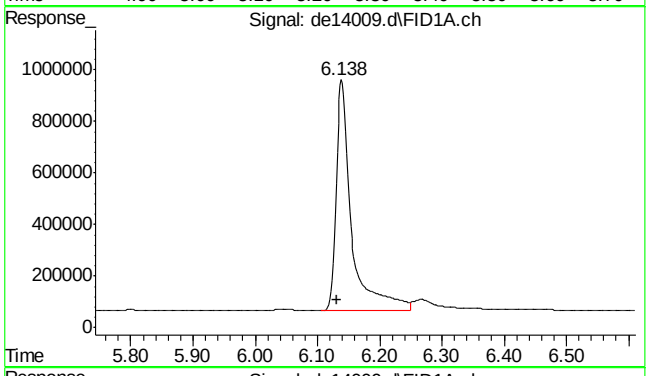
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 40364147
Conc: 411.02 µg/ml m



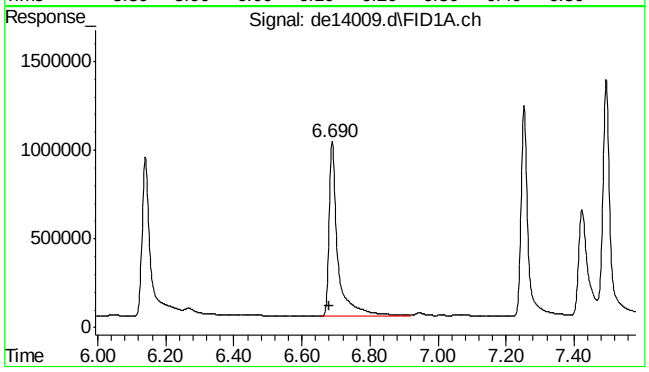
#2 naphthalene

R.T.: 5.240 min
Delta R.T.: 0.010 min
Response: 1475365
Conc: 14.30 µg/ml



#3 2-methylnaphthalene

R.T.: 6.138 min
Delta R.T.: 0.007 min
Response: 1549032
Conc: 15.12 µg/ml



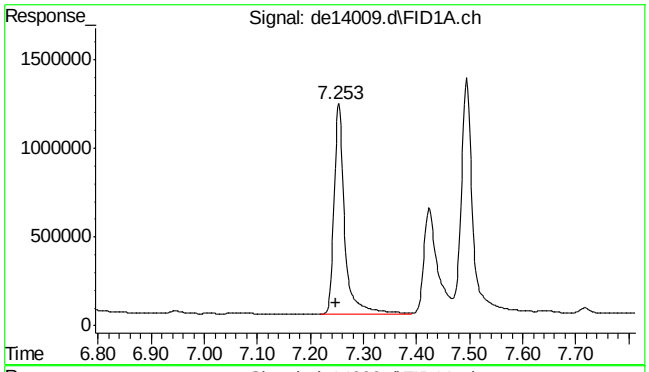
#4 2-fluorobiphenyl

R.T.: 6.690 min
Delta R.T.: 0.008 min
Response: 1765658
Conc: 19.14 µg/ml

9.4.1

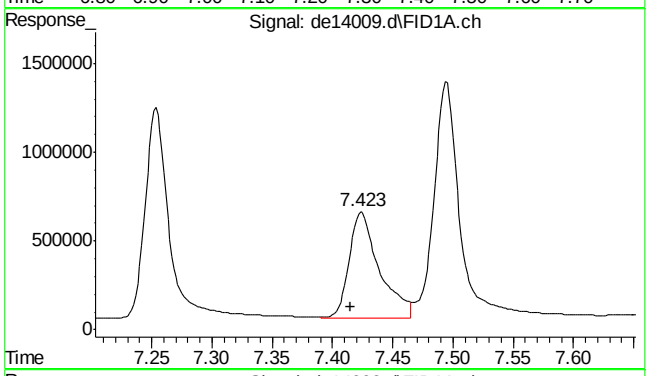
9

SGS ACCUTEST MC45611



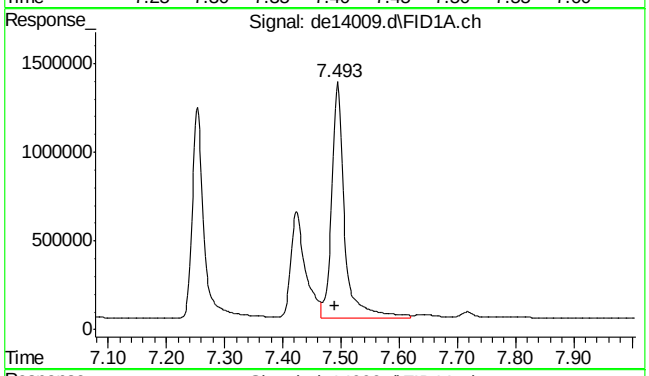
#5 acenaphthylene

R.T.: 7.253 min
Delta R.T.: 0.005 min
Response: 1660630
Conc: 16.51 µg/ml



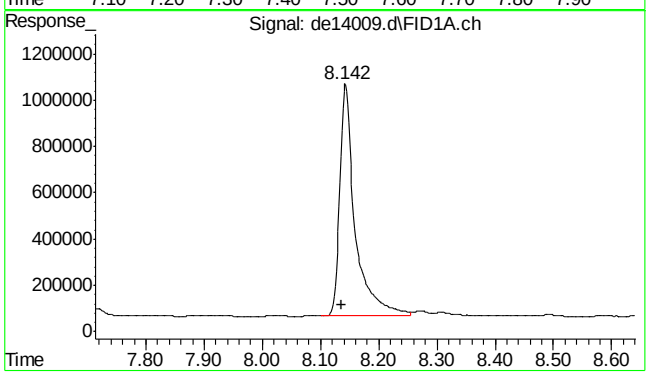
#6 2-bromonaphthalene

R.T.: 7.423 min
Delta R.T.: 0.008 min
Response: 1043453
Conc: 16.63 µg/ml



#7 acenaphthene

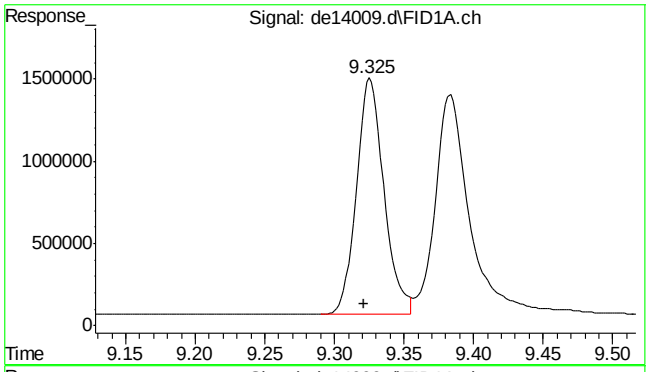
R.T.: 7.493 min
Delta R.T.: 0.003 min
Response: 2033858
Conc: 19.67 µg/ml



#8 fluorene

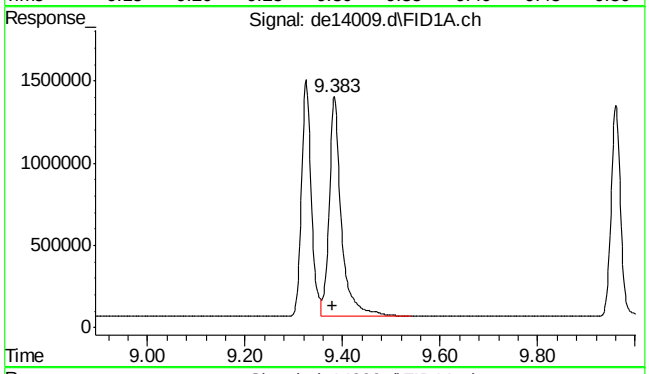
R.T.: 8.142 min
Delta R.T.: 0.005 min
Response: 1854099
Conc: 18.25 µg/ml

SGS ACCUTEST MC45611



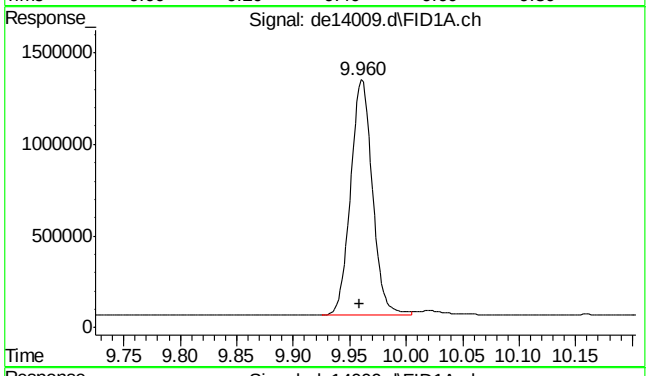
#9 phenanthrene

R.T.: 9.325 min
Delta R.T.: 0.003 min
Response: 1989654
Conc: 19.55 µg/ml



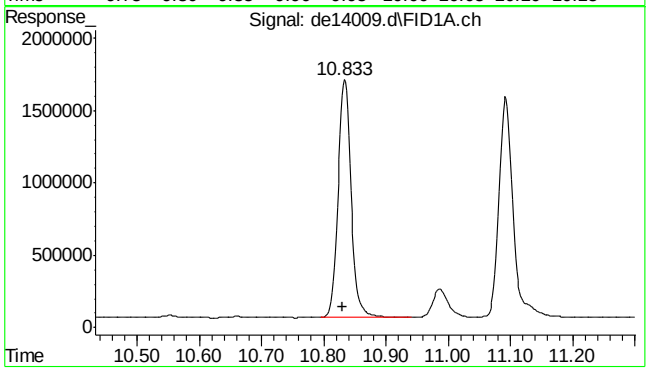
#10 anthracene

R.T.: 9.383 min
Delta R.T.: 0.003 min
Response: 2357811
Conc: 24.31 µg/ml



#11 o-terphenyl

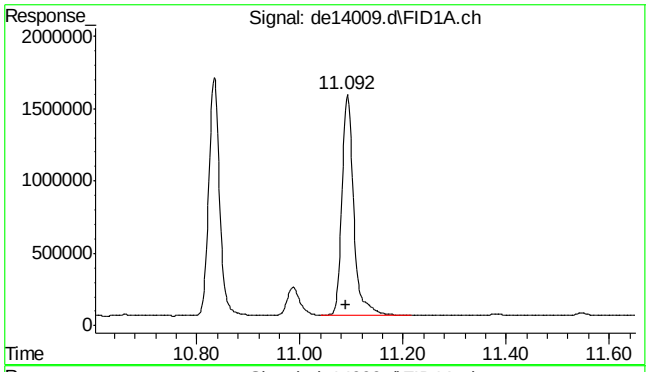
R.T.: 9.960 min
Delta R.T.: 0.002 min
Response: 1706927
Conc: 16.66 µg/ml



#12 fluoranthene

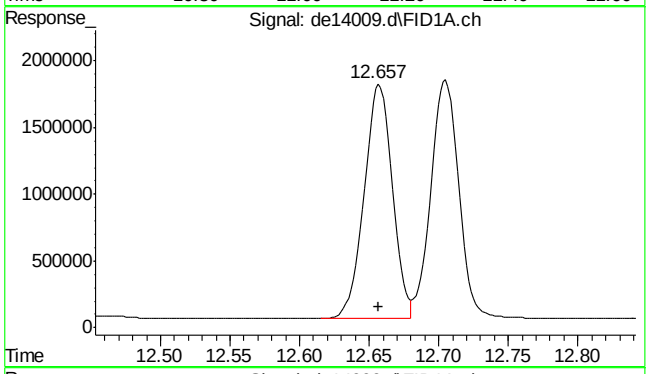
R.T.: 10.833 min
Delta R.T.: 0.003 min
Response: 2388825
Conc: 23.90 µg/ml

SGS ACCUTEST MC45611



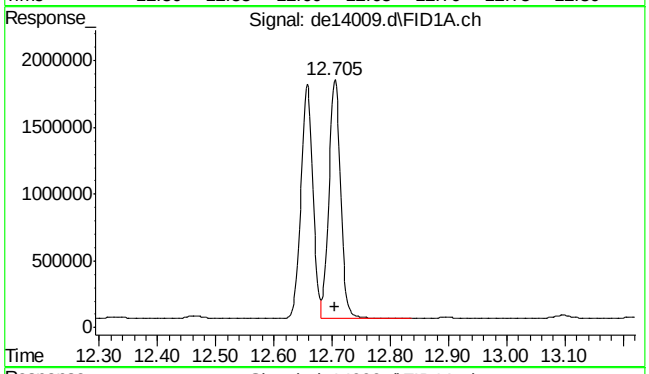
#13 pyrene

R.T.: 11.092 min
Delta R.T.: 0.002 min
Response: 2432627
Conc: 23.98 µg/ml



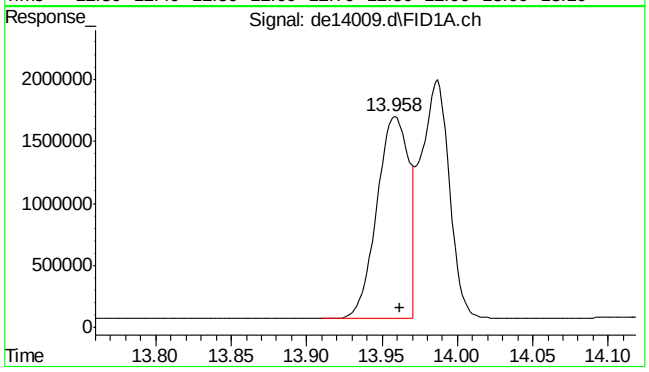
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 2467759
Conc: 25.53 µg/ml



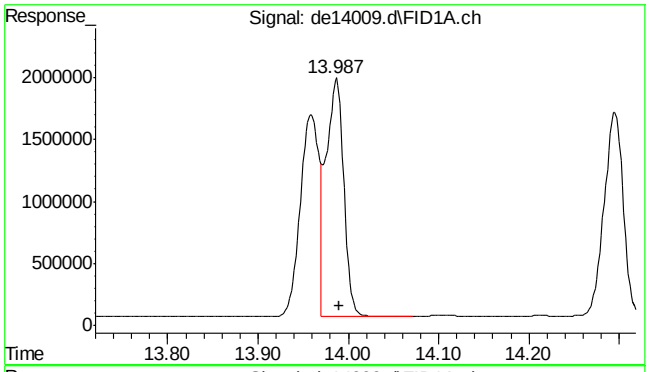
#15 chrysene

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 2497616
Conc: 25.66 µg/ml



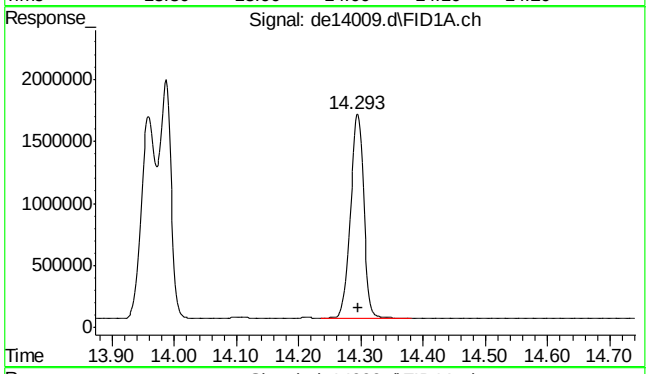
#16 benzo(B)fluoranthene

R.T.: 13.958 min
Delta R.T.: -0.003 min
Response: 2395339
Conc: 24.19 µg/ml



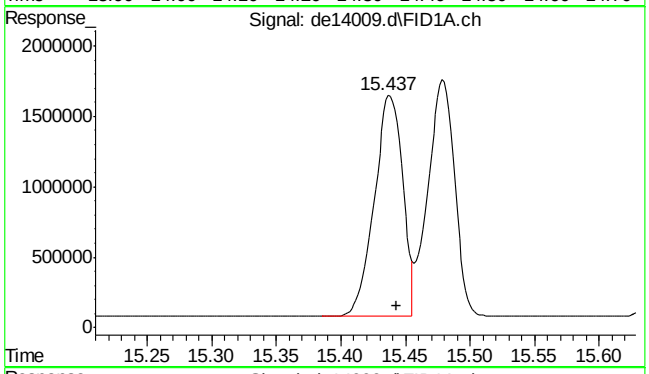
#17 benzo(k)fluoranthene

R.T.: 13.987 min
Delta R.T.: -0.003 min
Response: 2539142
Conc: 26.87 µg/ml



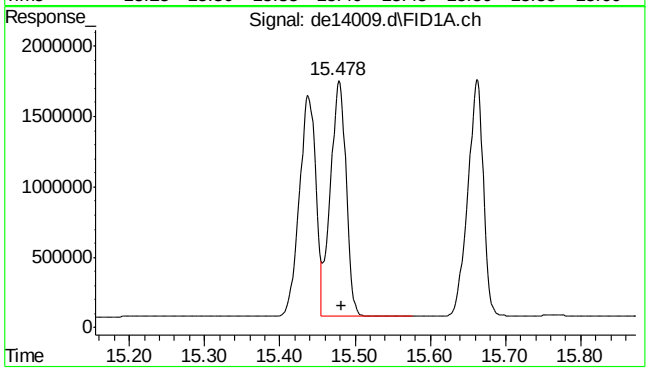
#18 benzo(a)pyrene

R.T.: 14.293 min
Delta R.T.: -0.003 min
Response: 2438064
Conc: 26.38 µg/ml



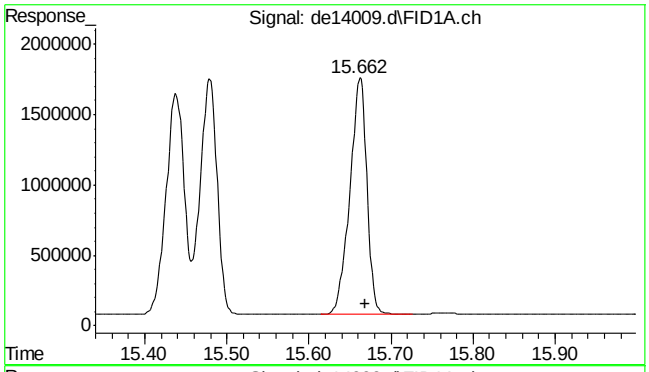
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.437 min
Delta R.T.: -0.007 min
Response: 2403328
Conc: 25.39 µg/ml



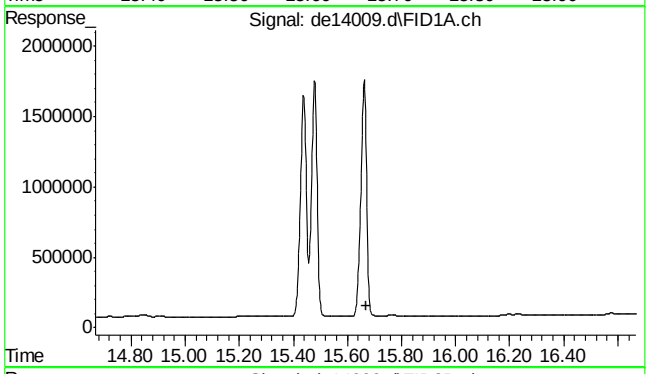
#20 dibenzo(ah)anthracene

R.T.: 15.478 min
Delta R.T.: -0.003 min
Response: 2438373
Conc: 26.68 µg/ml



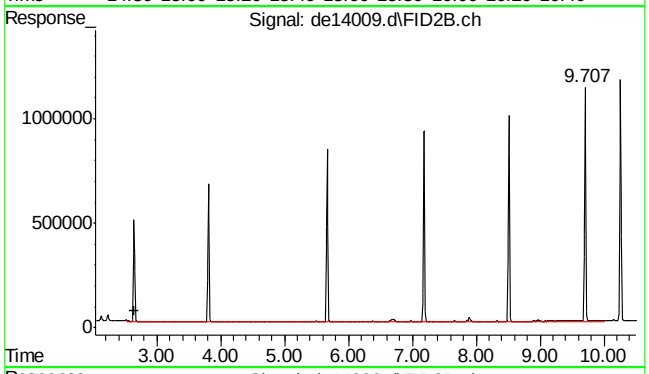
#21 benzo(ghi)perylene

R.T.: 15.662 min
Delta R.T.: -0.007 min
Response: 2428339
Conc: 26.36 µg/ml



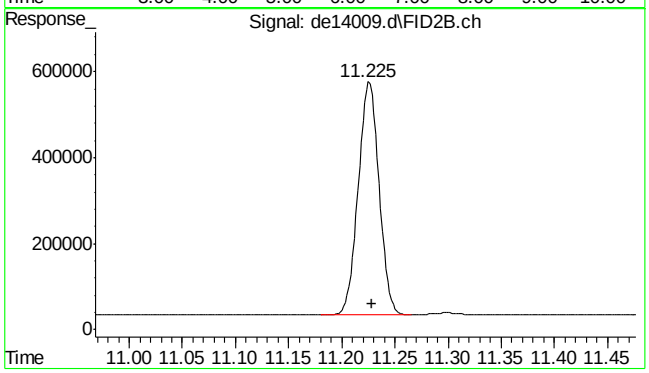
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



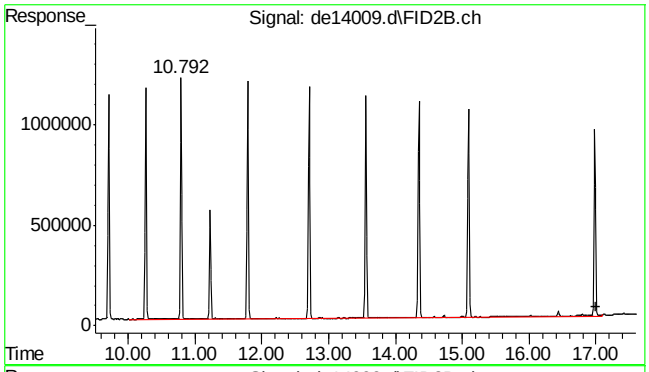
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 7075299
Conc: 95.78 µg/ml m



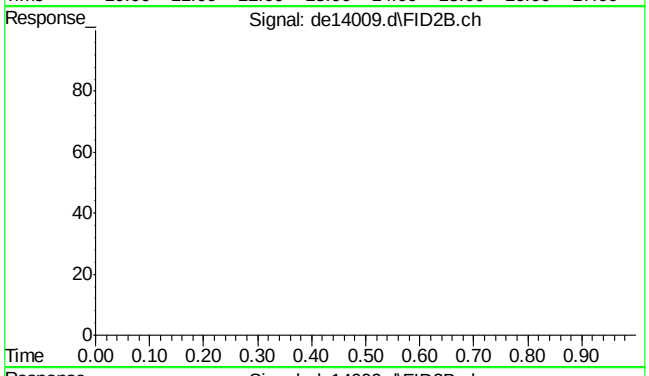
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 739086
Conc: 13.06 µg/ml



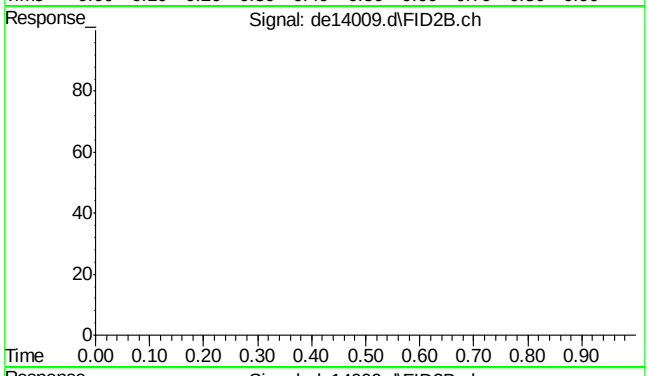
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 13690971
Conc: 204.93 µg/ml m



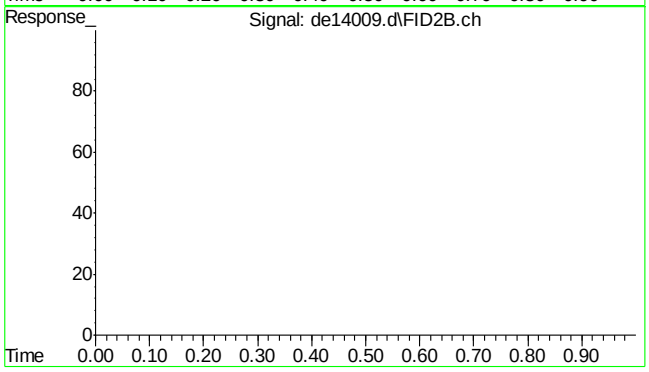
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



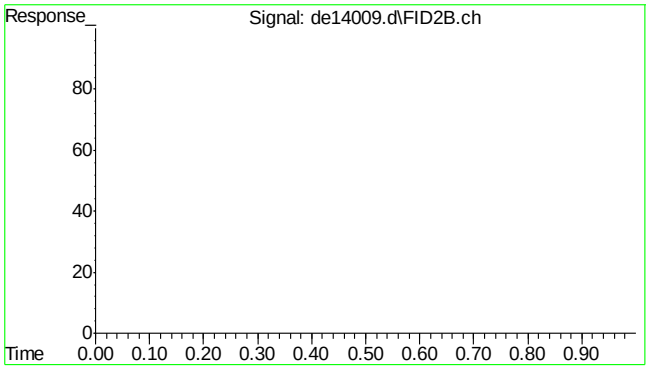
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.1

9

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/03/16 13:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:56:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	1610953	17.467 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.33%#	
6) s 2-bromonaphthalene	7.425	972543	15.497 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 77.48%#	
11) s o-terphenyl	9.962	1543510	15.069 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 75.35%#	
35) s 1-chlorooctadecane	11.225	683363	12.079 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 60.39%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36685786	373.565 µg/mlm
2) naphthalene	5.242	1300220	12.606 µg/ml
3) 2-methylnaphthalene	6.140	1385959	13.524 µg/ml
5) acenaphthylene	7.253	1511531	15.025 µg/ml
7) acenaphthene	7.495	1819403	17.600 µg/ml
8) fluorene	8.143	1692512	16.664 µg/ml
9) phenanthrene	9.327	1793888	17.628 µg/ml
10) anthracene	9.385	2099738	21.645 µg/ml
12) fluoranthene	10.835	2153342	21.546 µg/ml
13) pyrene	11.093	2181899	21.505 µg/ml
14) benzo(a)anthracene	12.657	2226013	23.026 µg/ml
15) chrysene	12.705	2262659	23.245 µg/ml
16) benzo(B)fluoranthene	13.960	2258997	22.818 µg/mlm
17) benzo(k)fluoranthene	13.988	2239281	23.695 µg/mlm
18) benzo(a)pyrene	14.293	2222069	24.039 µg/ml
19) indeno(1,2,3-cd)pyrene	15.438	2226593	23.522 µg/mlm
20) dibenzo(ah)anthracene	15.478	2220705	24.297 µg/mlm
21) benzo(ghi)perylene	15.660	2229560	24.202 µg/ml
25) h c-9	2.648	6974005	94.406 µg/mlm
41) h c-36	17.008	12910748	193.256 µg/mlm

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

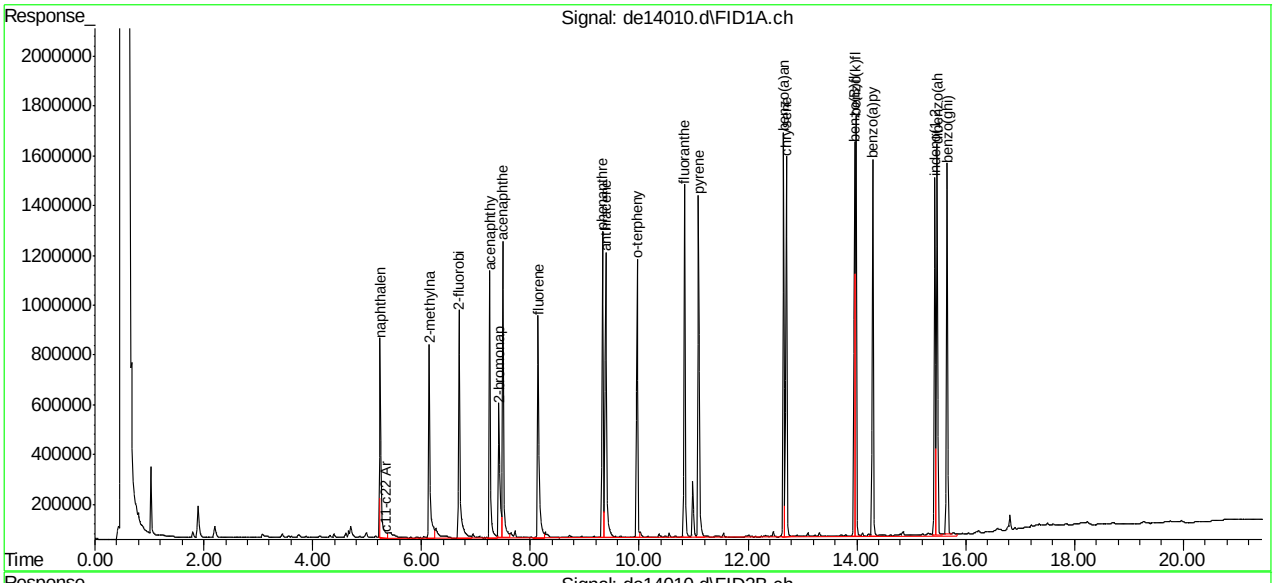
9.4.2
9

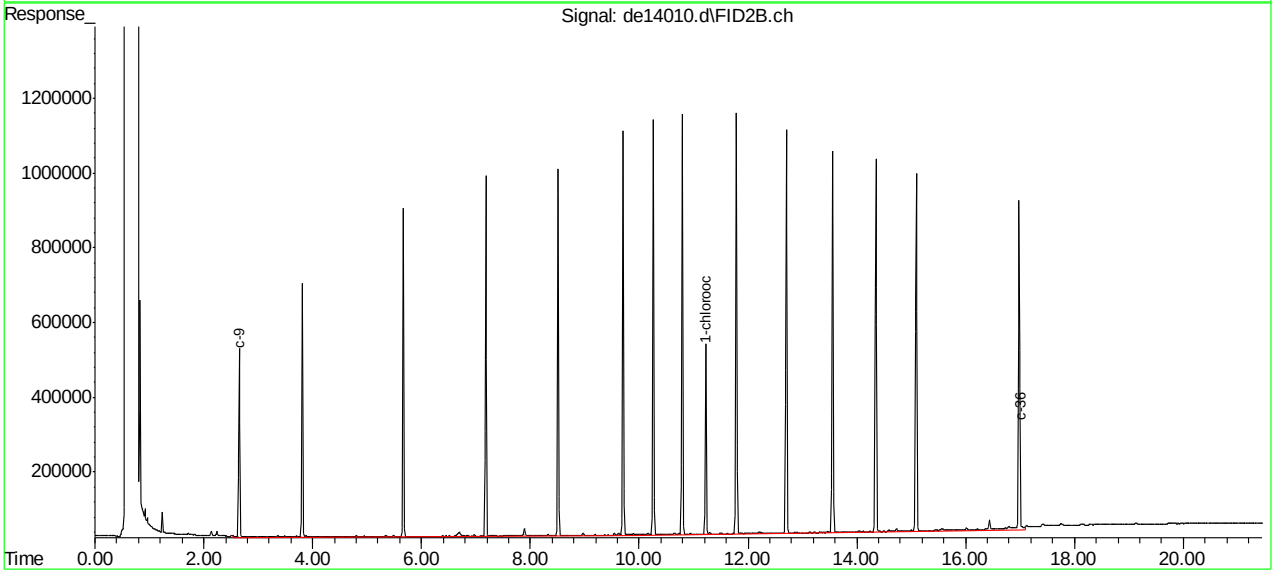
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

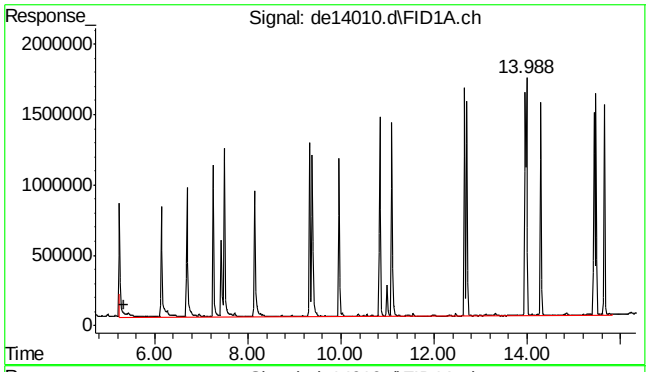
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:56:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



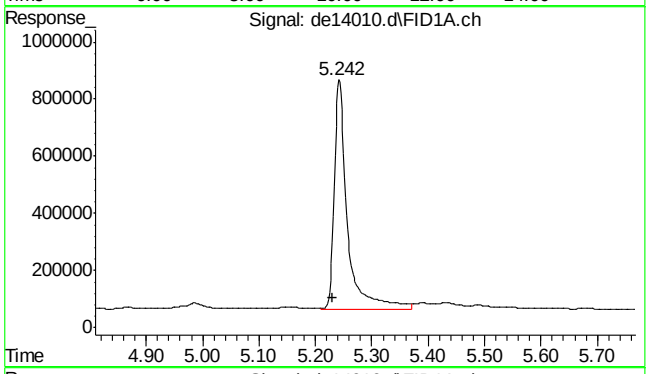


EPH160502W.M Tue May 03 13:29:20 2016 Page: 2



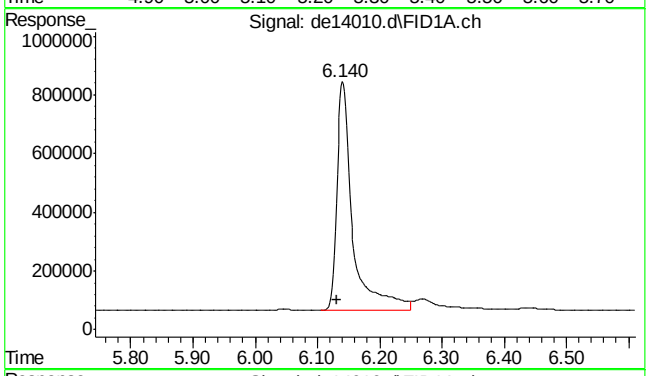
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36685786
Conc: 373.56 µg/ml m



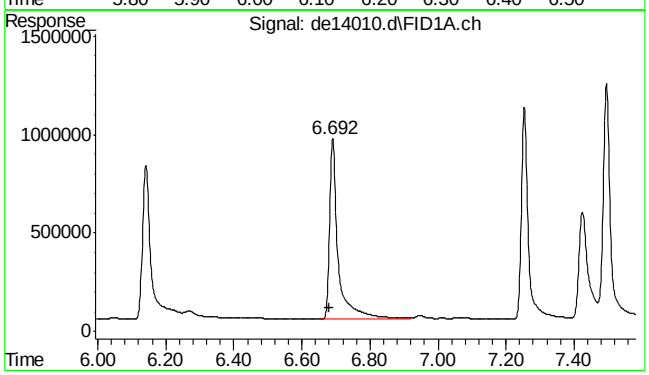
#2 naphthalene

R.T.: 5.242 min
Delta R.T.: 0.012 min
Response: 1300220
Conc: 12.61 µg/ml



#3 2-methylnaphthalene

R.T.: 6.140 min
Delta R.T.: 0.008 min
Response: 1385959
Conc: 13.52 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.692 min
Delta R.T.: 0.010 min
Response: 1610953
Conc: 17.47 µg/ml

9.4.2

9

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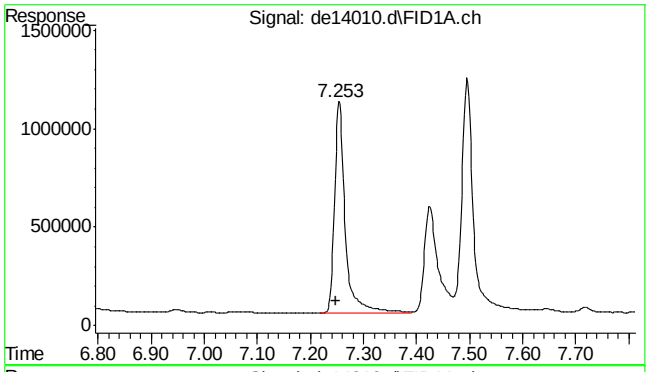
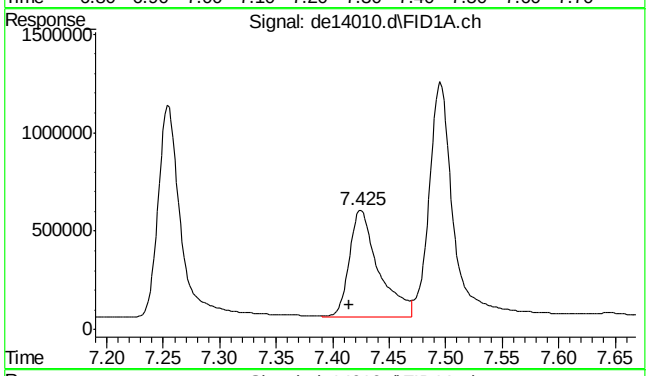


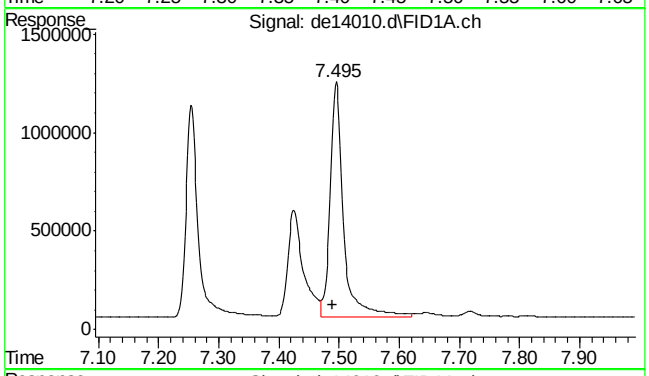
#5 acenaphthylene

R.T.: 7.253 min
Delta R.T.: 0.005 min
Response: 1511531
Conc: 15.02 µg/ml



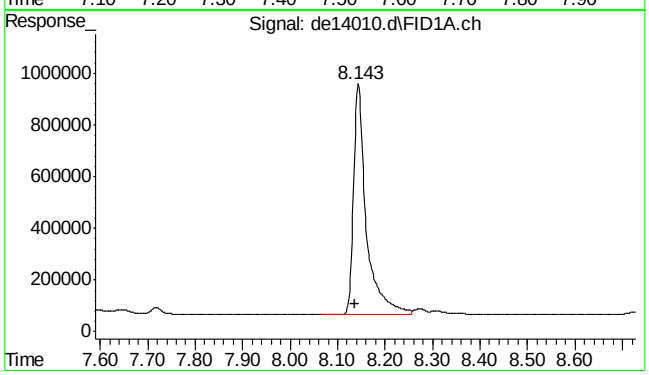
#6 2-bromonaphthalene

R.T.: 7.425 min
Delta R.T.: 0.010 min
Response: 972543
Conc: 15.50 µg/ml



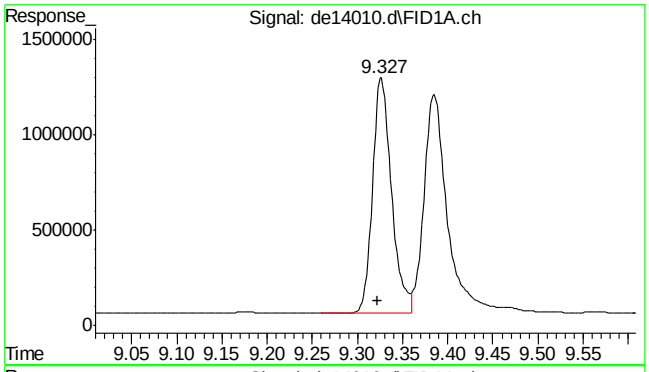
#7 acenaphthene

R.T.: 7.495 min
Delta R.T.: 0.005 min
Response: 1819403
Conc: 17.60 µg/ml



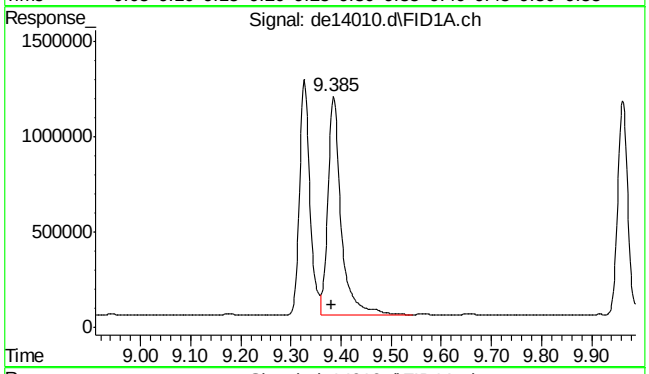
#8 fluorene

R.T.: 8.143 min
Delta R.T.: 0.007 min
Response: 1692512
Conc: 16.66 µg/ml



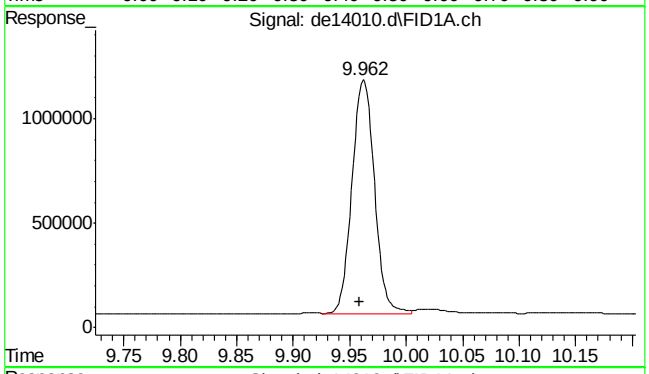
#9 phenanthrene

R.T.: 9.327 min
Delta R.T.: 0.005 min
Response: 1793888
Conc: 17.63 µg/ml



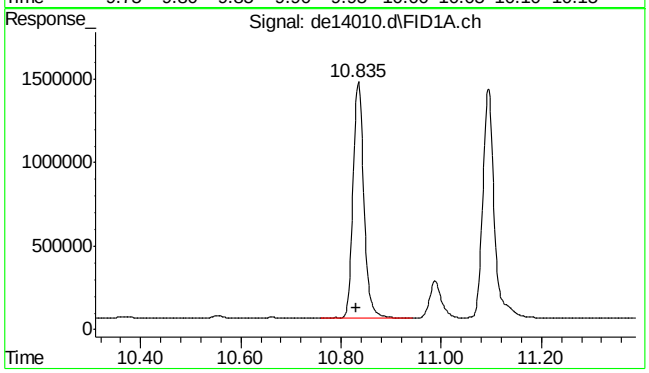
#10 anthracene

R.T.: 9.385 min
Delta R.T.: 0.005 min
Response: 2099738
Conc: 21.64 µg/ml



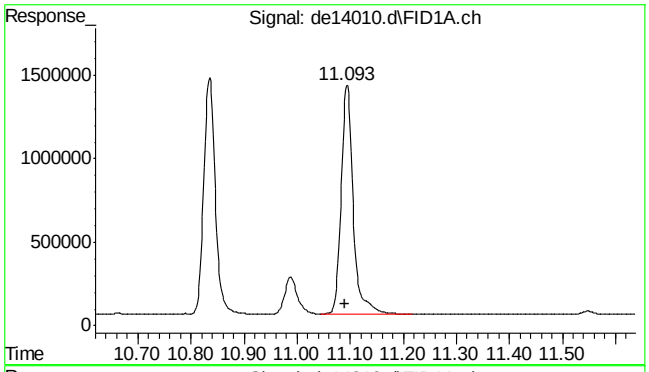
#11 o-terphenyl

R.T.: 9.962 min
Delta R.T.: 0.003 min
Response: 1543510
Conc: 15.07 µg/ml



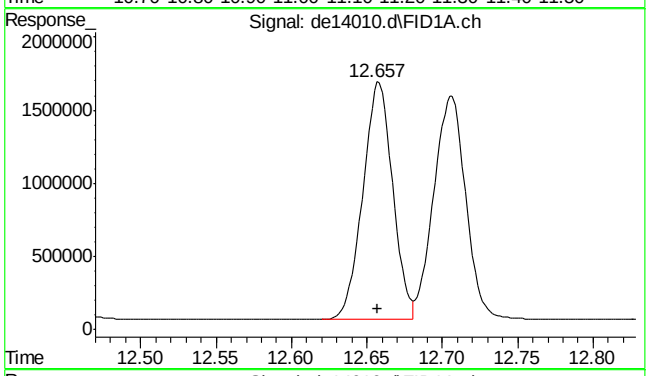
#12 fluoranthene

R.T.: 10.835 min
Delta R.T.: 0.005 min
Response: 2153342
Conc: 21.55 µg/ml



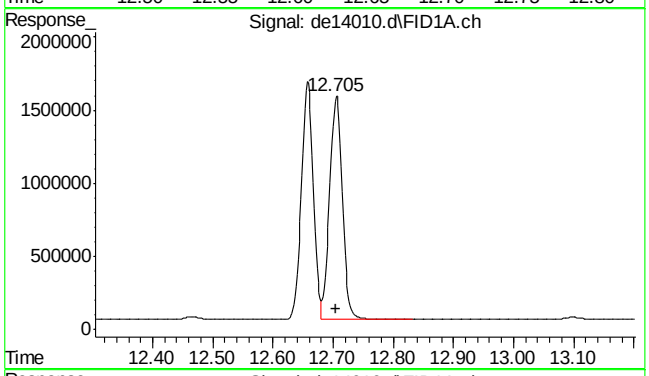
#13 pyrene

R.T.: 11.093 min
Delta R.T.: 0.003 min
Response: 2181899
Conc: 21.50 µg/ml



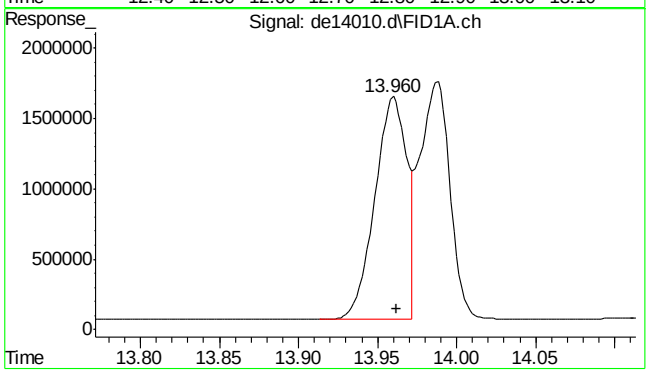
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 2226013
Conc: 23.03 µg/ml



#15 chrysene

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 2262659
Conc: 23.24 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.960 min
Delta R.T.: -0.002 min
Response: 2258997
Conc: 22.82 µg/ml m

9.4.2

9

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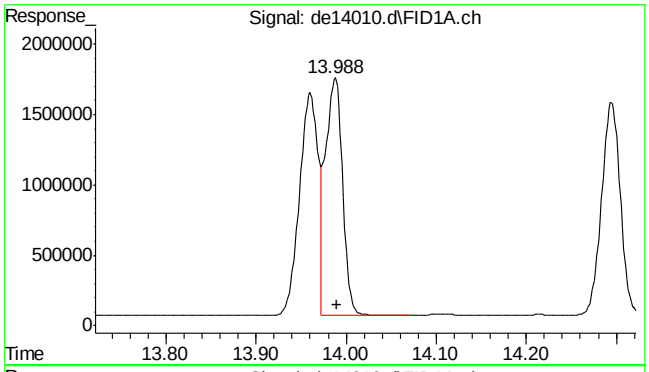
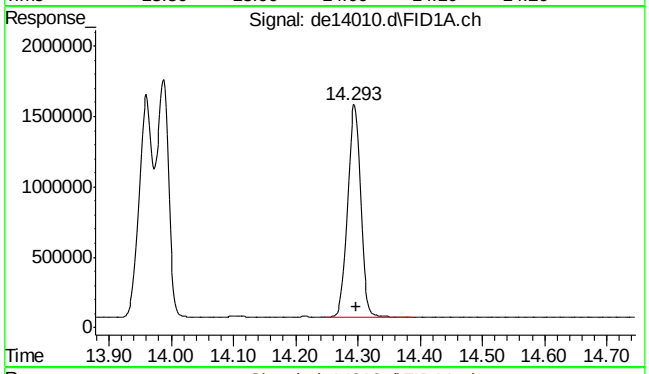


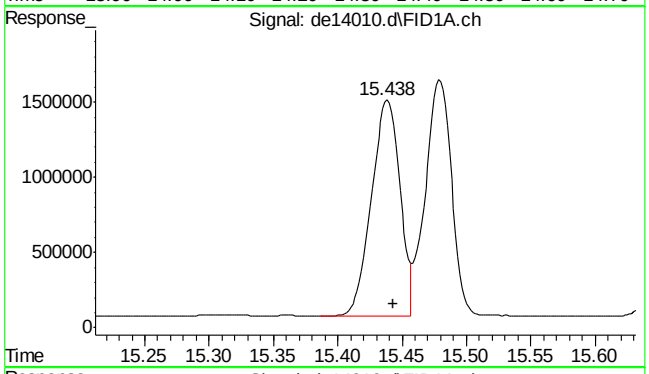
#17 benzo(k)fluoranthene

R.T.: 13.988 min
Delta R.T.: -0.002 min
Response: 2239281
Conc: 23.70 µg/ml m



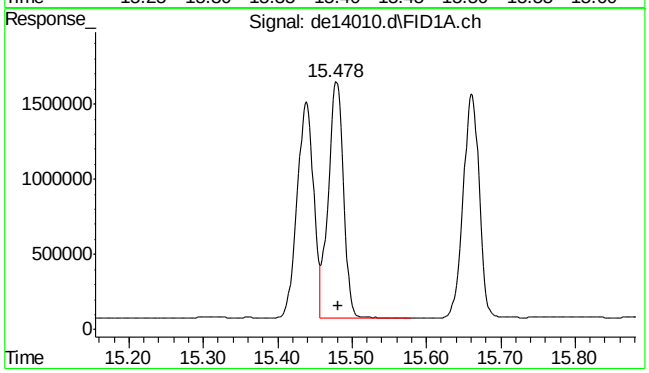
#18 benzo(a)pyrene

R.T.: 14.293 min
Delta R.T.: -0.003 min
Response: 2222069
Conc: 24.04 µg/ml



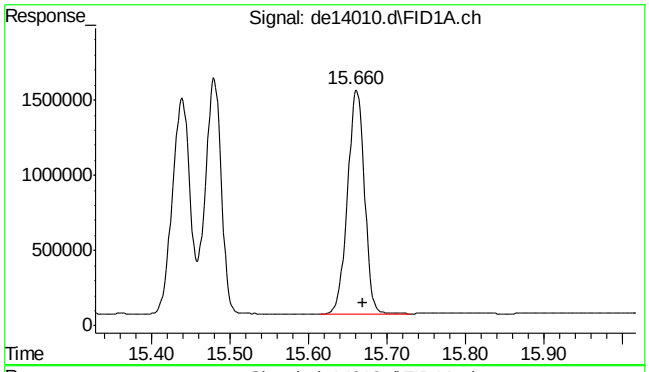
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.438 min
Delta R.T.: -0.005 min
Response: 2226593
Conc: 23.52 µg/ml m



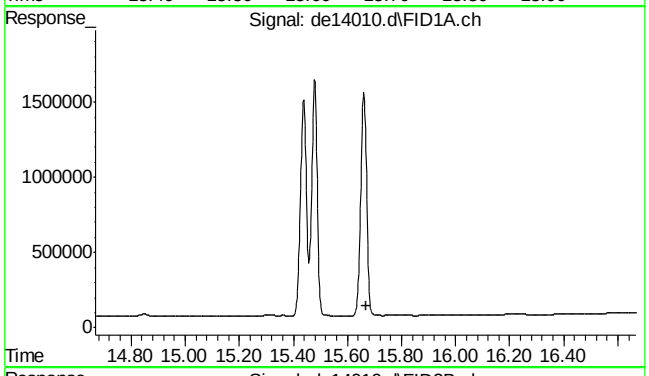
#20 dibenzo(ah)anthracene

R.T.: 15.478 min
Delta R.T.: -0.003 min
Response: 2220705
Conc: 24.30 µg/ml m



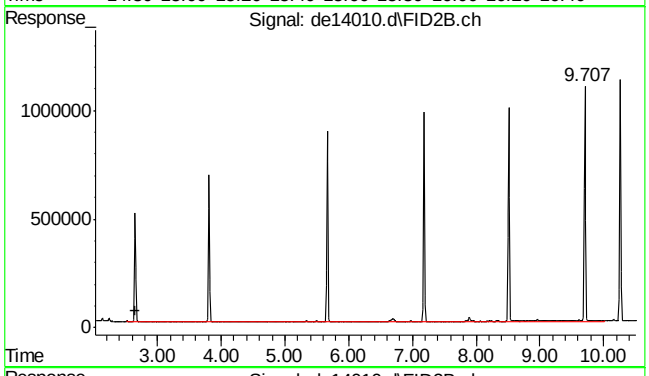
#21 benzo(ghi)perylene

R.T.: 15.660 min
Delta R.T.: -0.008 min
Response: 2229560
Conc: 24.20 µg/ml



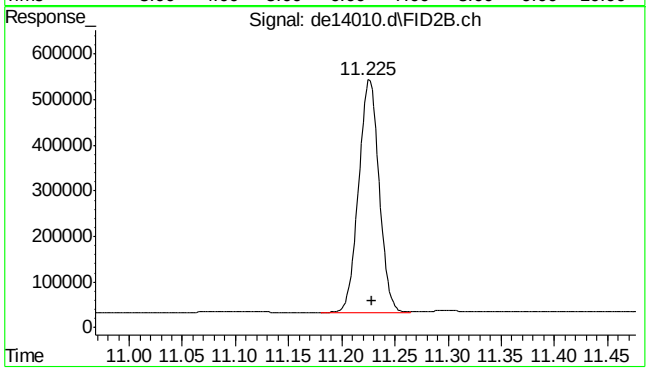
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 6974005
Conc: 94.41 µg/ml m



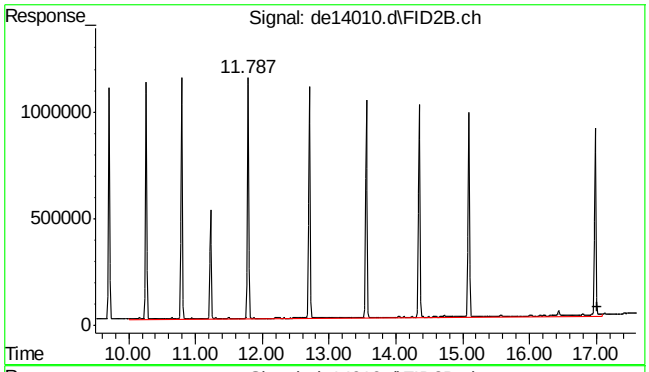
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 683363
Conc: 12.08 µg/ml

9.4.2

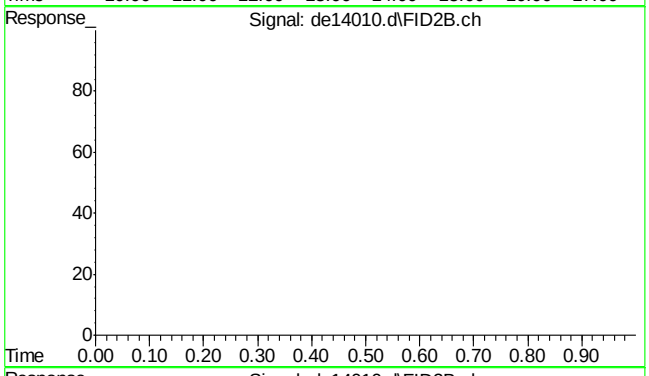
9

SGS ACCUTEST MC45611



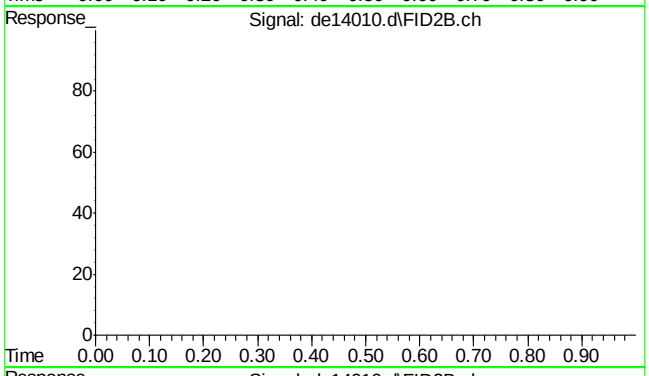
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 12910748
Conc: 193.26 µg/ml m



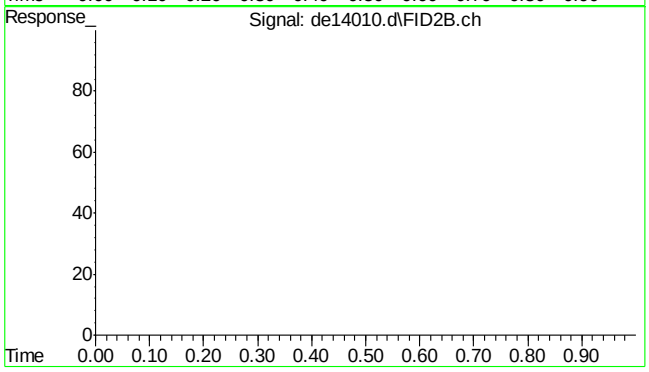
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



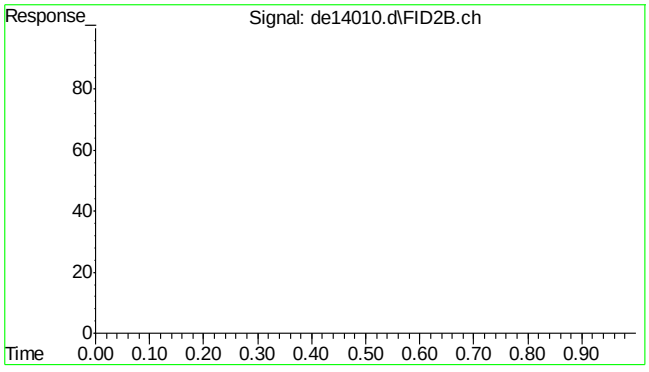
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.2

9

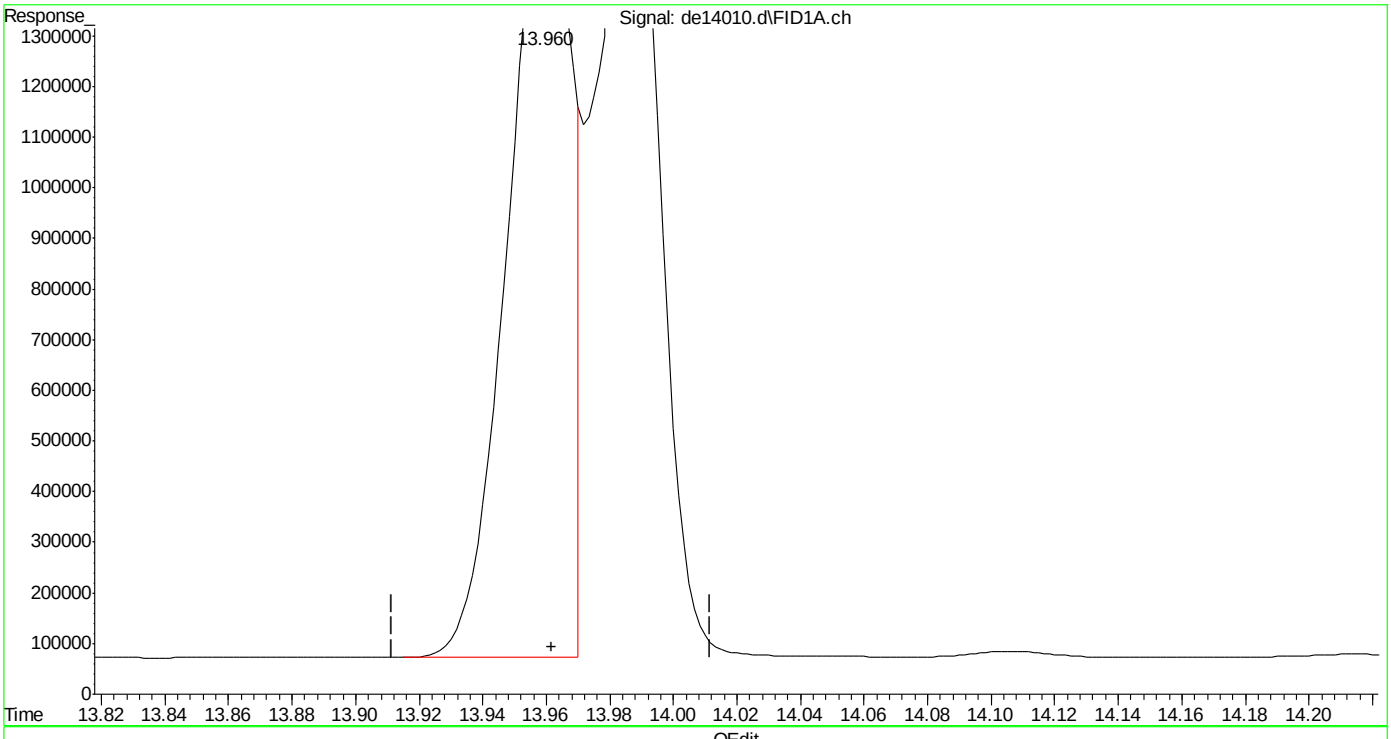
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.960min 21.748 µg/ml
response 2153080

(+) = Expected Retention Time

EPH160502W.M Tue May 03 08:53:39 2016

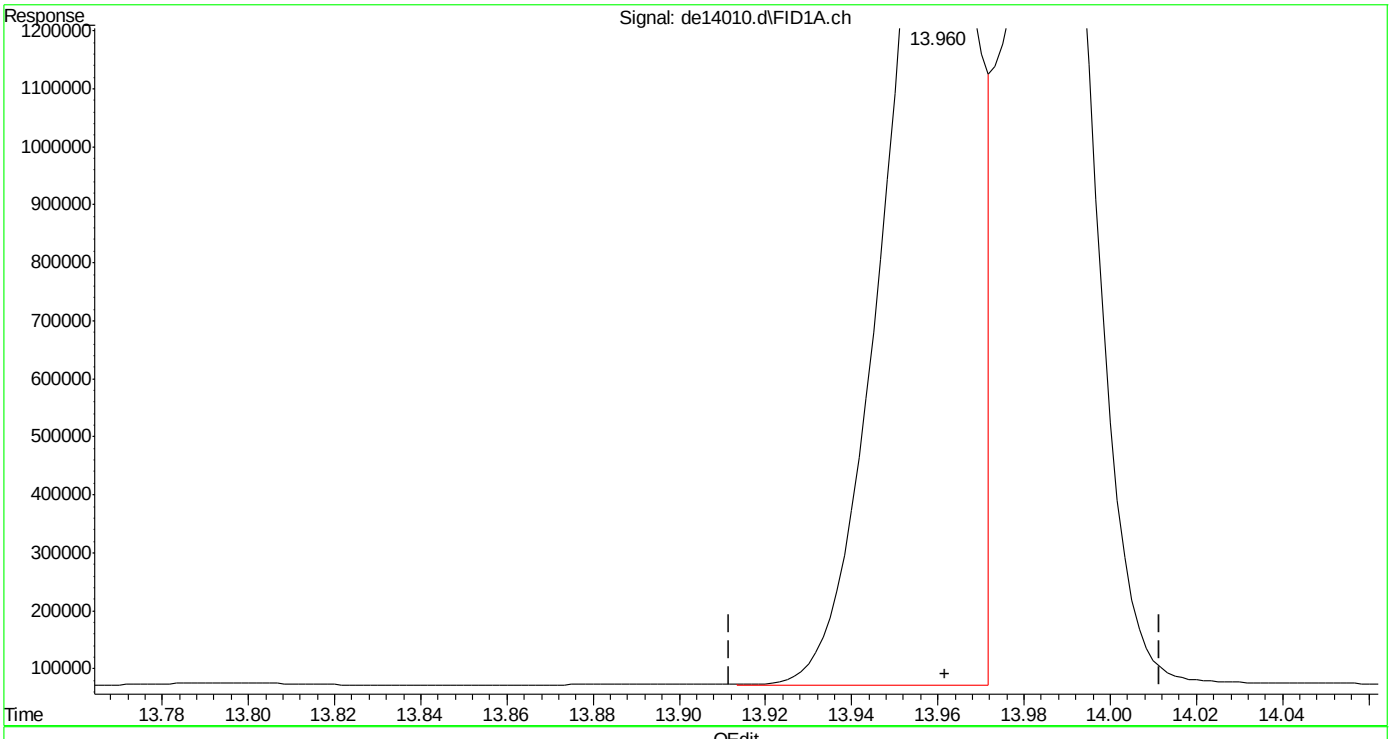
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.960min 22.818 µg/ml m
response 2258997

(+) = Expected Retention Time

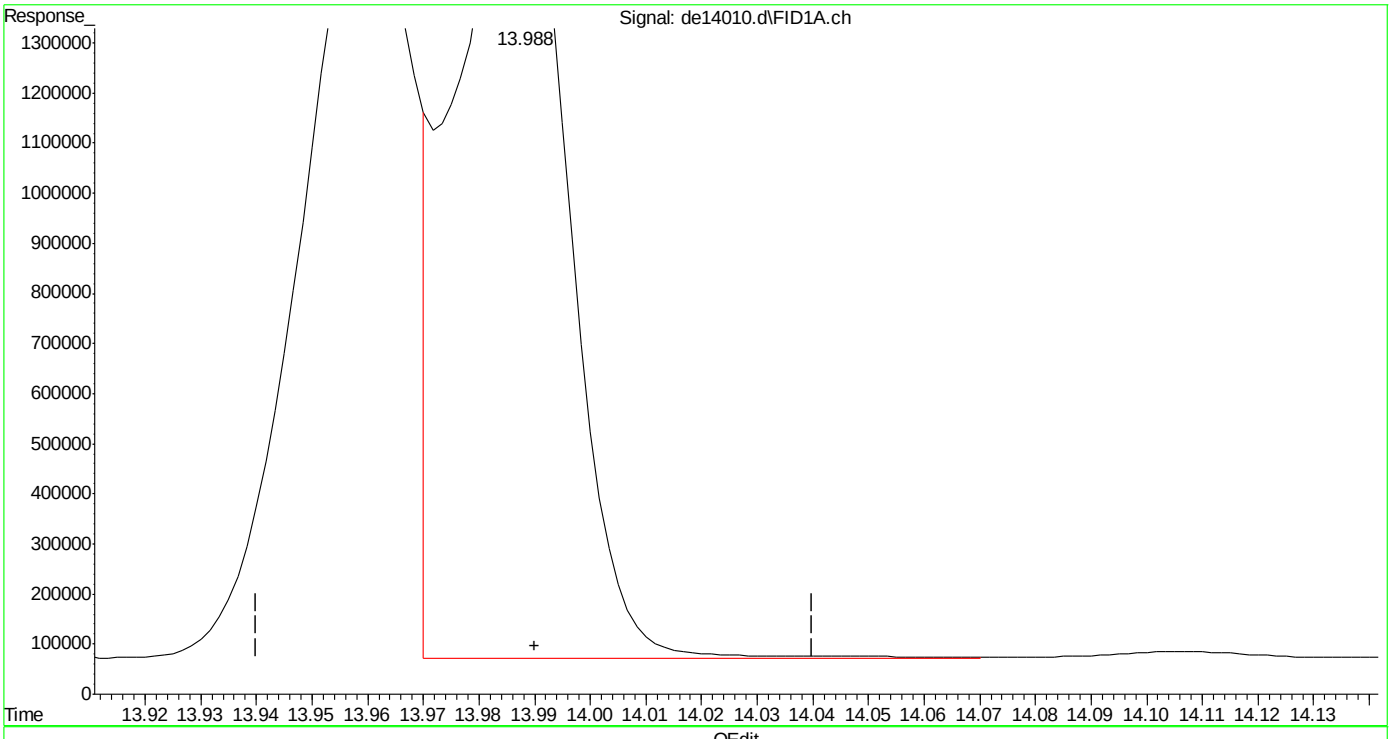
EPH160502W.M Tue May 03 08:53:55 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.988min 24.771 µg/ml
response 2340955

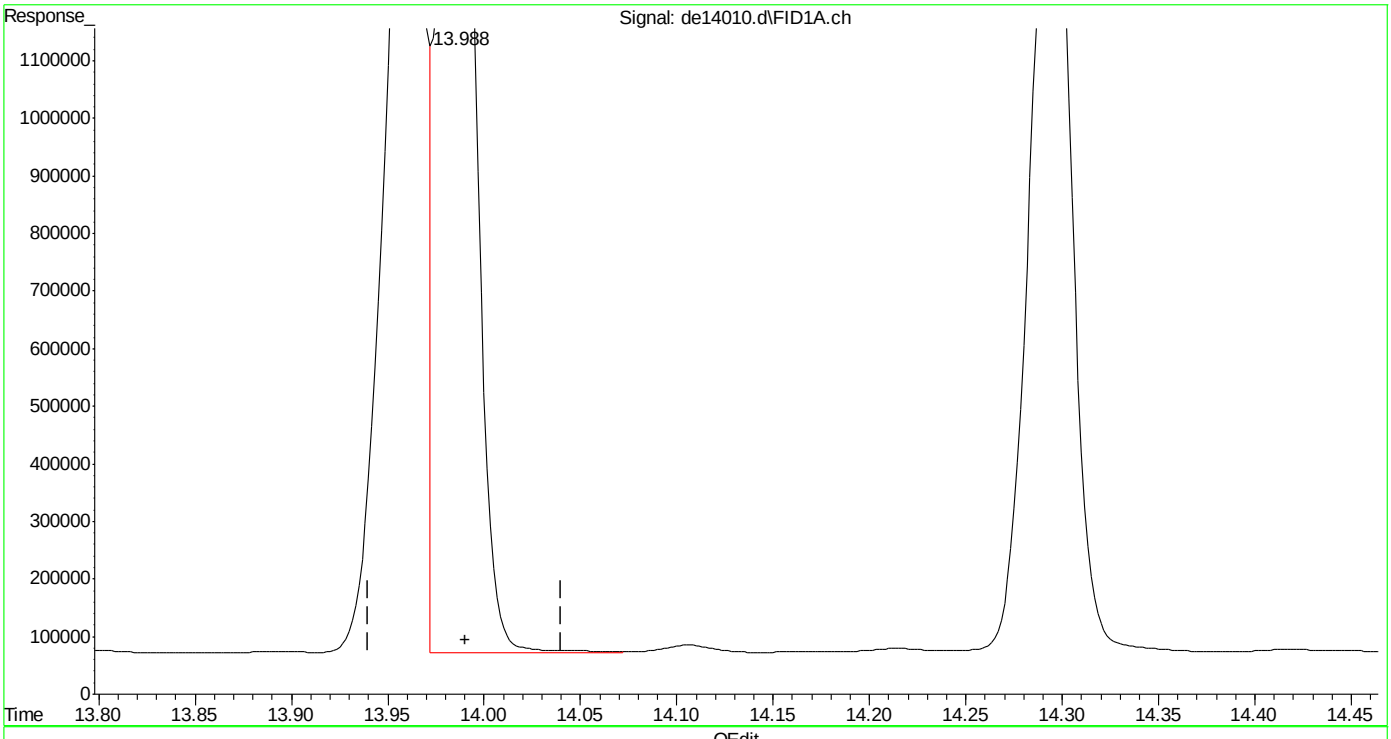
(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:53:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
13.988min 23.695 µg/ml m
response 2239281

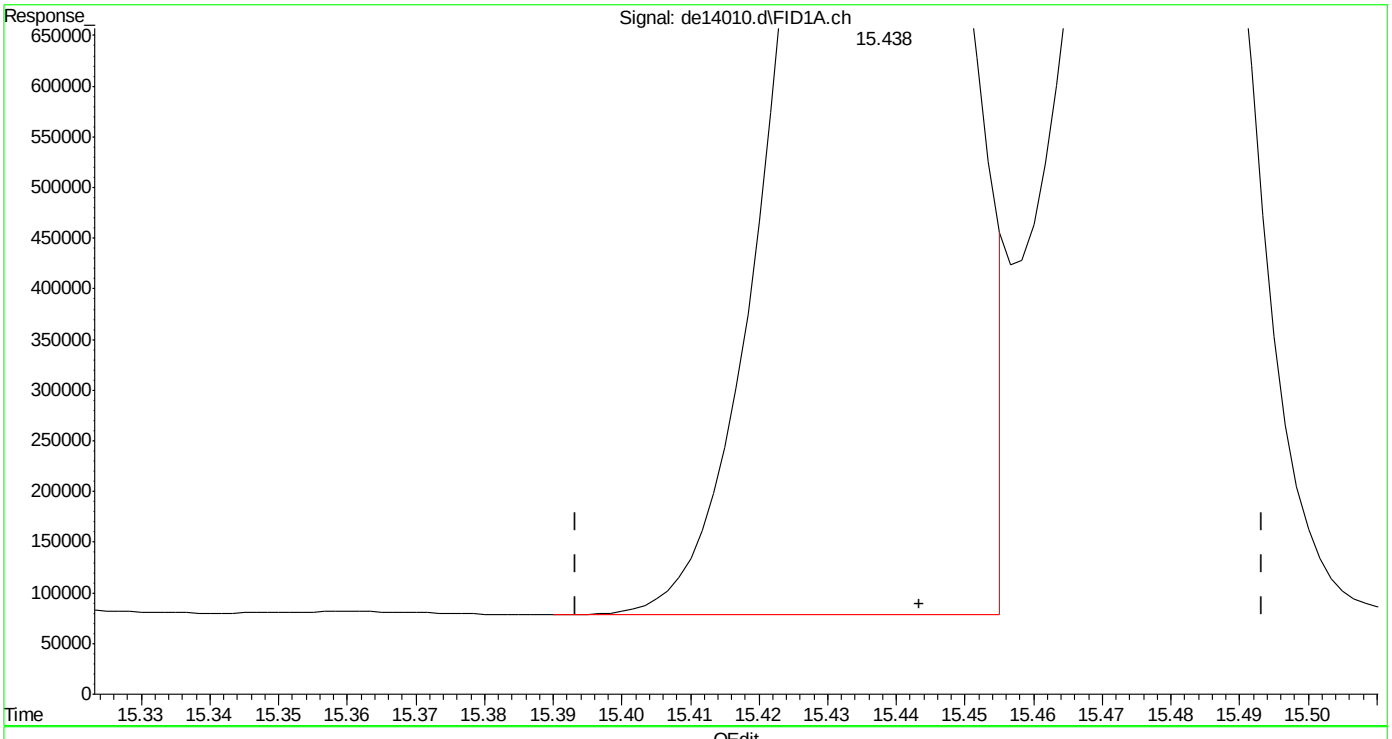
(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:54:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.438min 23.134 µg/ml
response 2189842

(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:54:36 2016

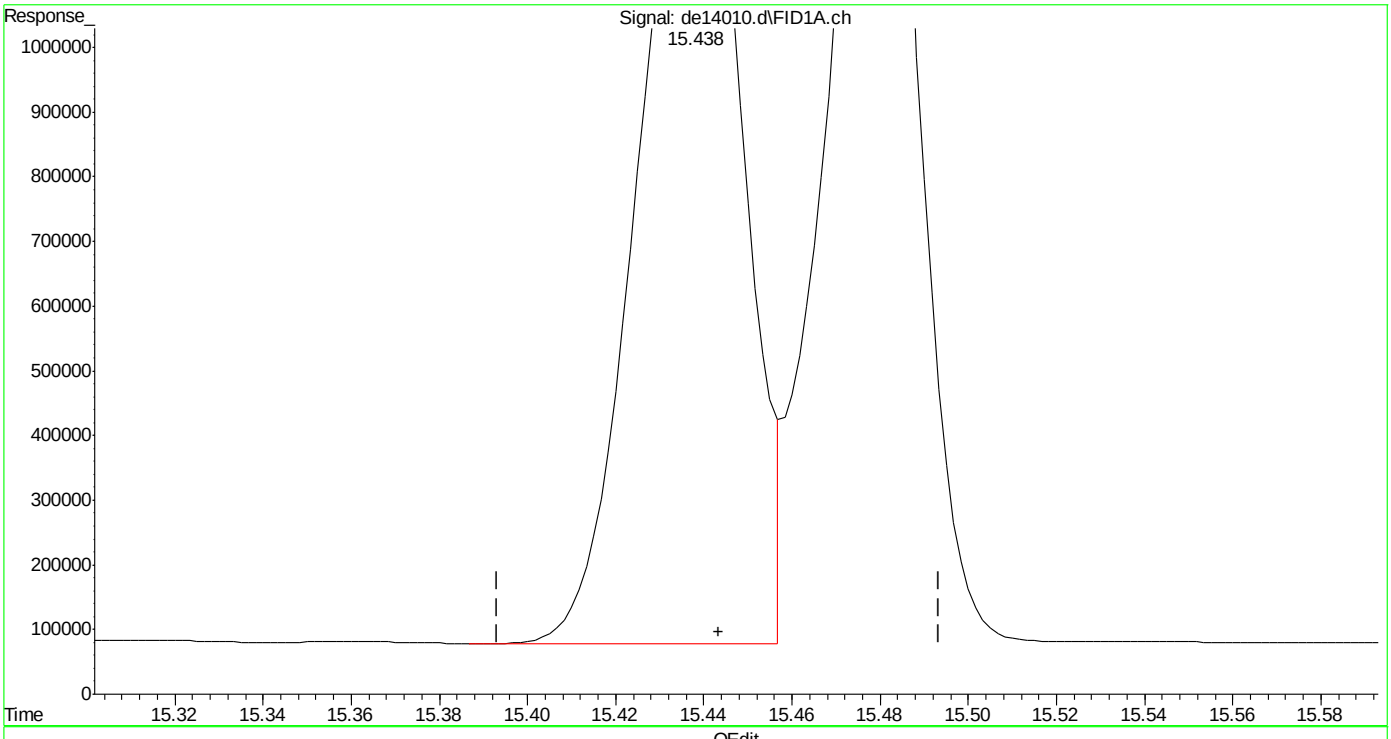
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.438min 23.522 µg/ml m
response 2226593

(+) = Expected Retention Time

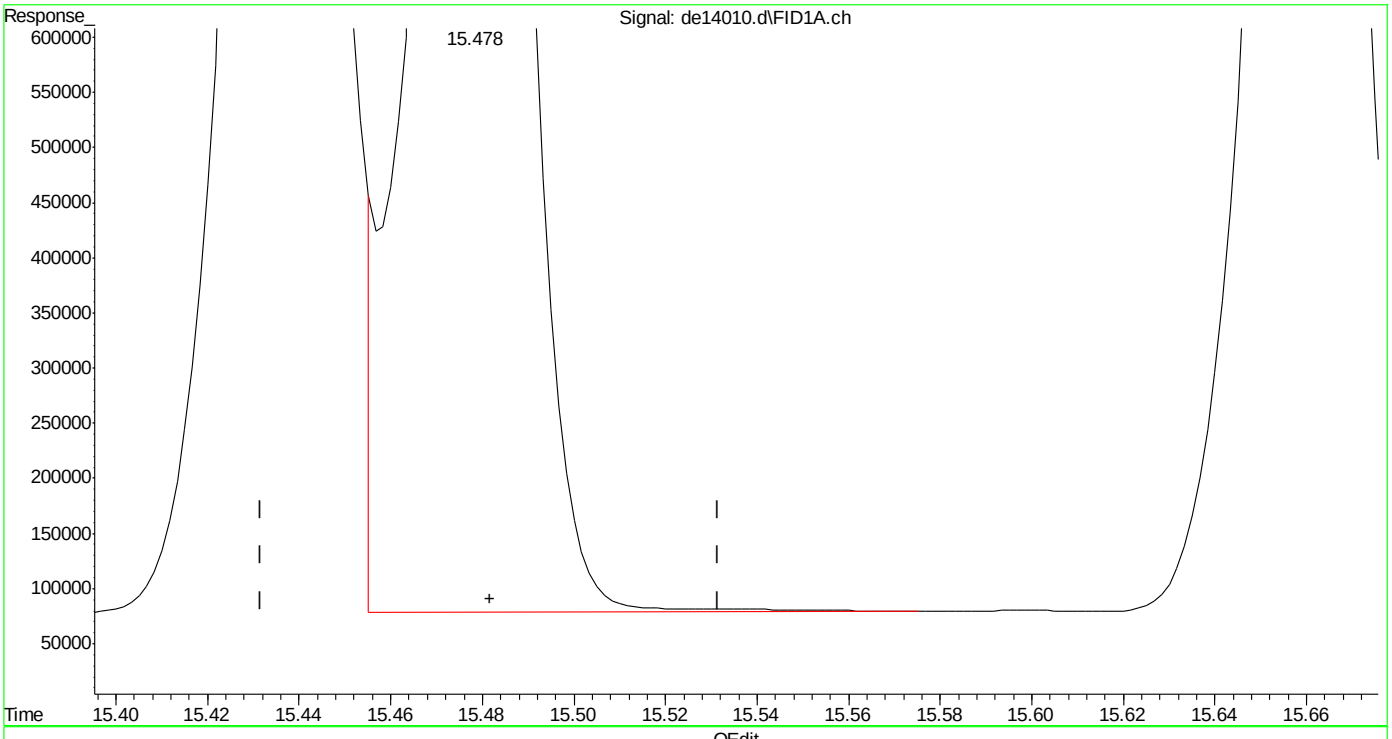
EPH160502W.M Tue May 03 08:54:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.478min 24.638 µg/ml
response 2251872

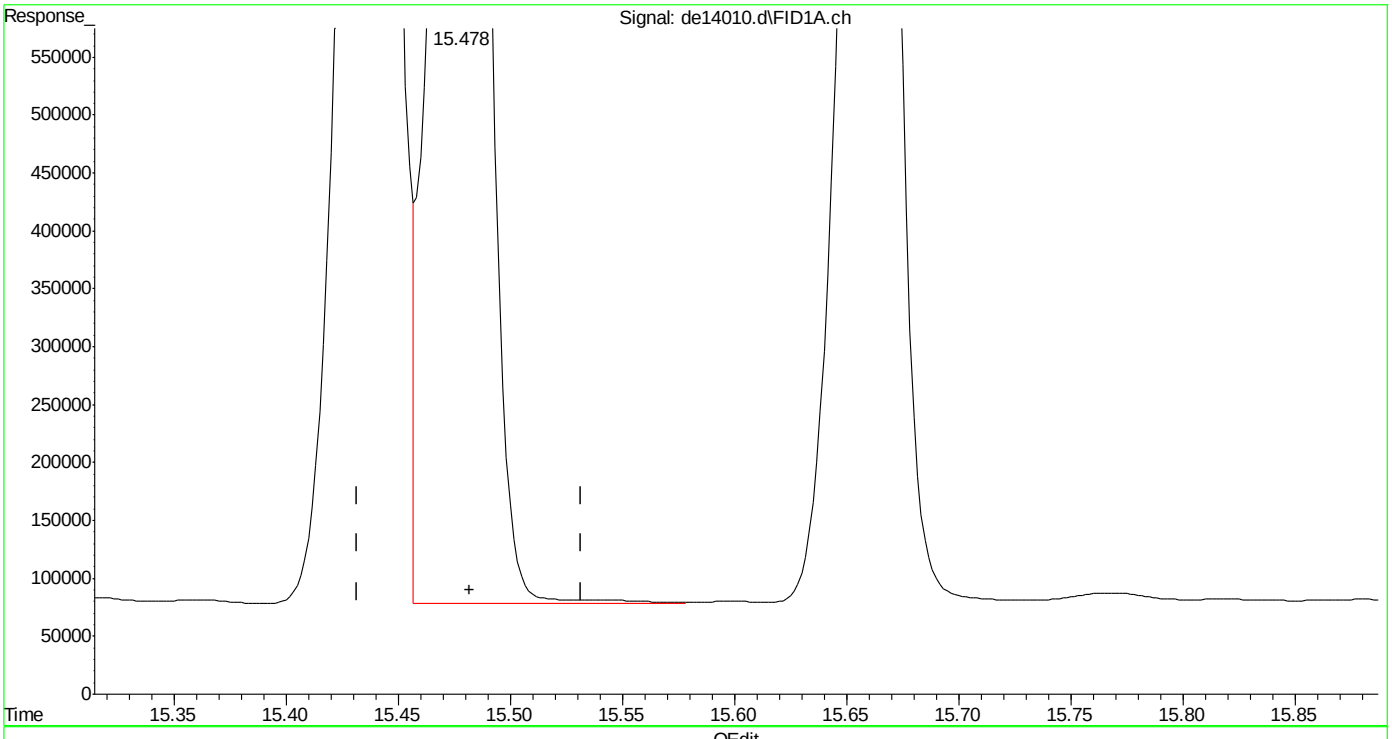
(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:54:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.478min 24.297 µg/ml m
response 2220705

(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:55:07 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 15:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:28:34 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1558424	16.897 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 84.48%#	
6) s 2-bromonaphthalene	7.335	1007898	16.061 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 80.31%#	
11) s o-terphenyl	9.872	1703924	16.636 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.18%#	
35) s 1-chlorooctadecane	11.225	741333	13.104 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 65.52%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	33162824	337.691 µg/mlm
2) naphthalene	5.155	1357284	13.160 µg/ml
3) 2-methylnaphthalene	6.055	1411836	13.776 µg/ml
5) acenaphthylene	7.167	1516046	15.070 µg/ml
7) acenaphthene	7.407	1732239	16.757 µg/ml
8) fluorene	8.052	1681245	16.553 µg/ml
9) phenanthrene	9.230	1765953	17.354 µg/ml
10) anthracene	9.288	1928235	19.877 µg/ml
12) fluoranthene	10.735	1947160	19.483 µg/ml
13) pyrene	10.990	1973035	19.446 µg/ml
14) benzo(a)anthracene	12.555	1917805	19.838 µg/ml
15) chrysene	12.600	1929893	19.826 µg/ml
16) benzo(B)fluoranthene	13.850	1930083	19.495 µg/mlm
17) benzo(k)fluoranthene	13.878	1887555	19.974 µg/mlm
18) benzo(a)pyrene	14.183	1885239	20.395 µg/ml
19) indeno(1,2,3-cd)pyrene	15.323	1877437	19.834 µg/mlm
20) dibenzo(ah)anthracene	15.367	1846949	20.208 µg/mlm
21) benzo(ghi)perylene	15.545	1892084	20.539 µg/ml
25) h c-9	2.648	7807809	105.694 µg/mlm
41) h c-36	17.008	10936105	163.698 µg/mlm

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

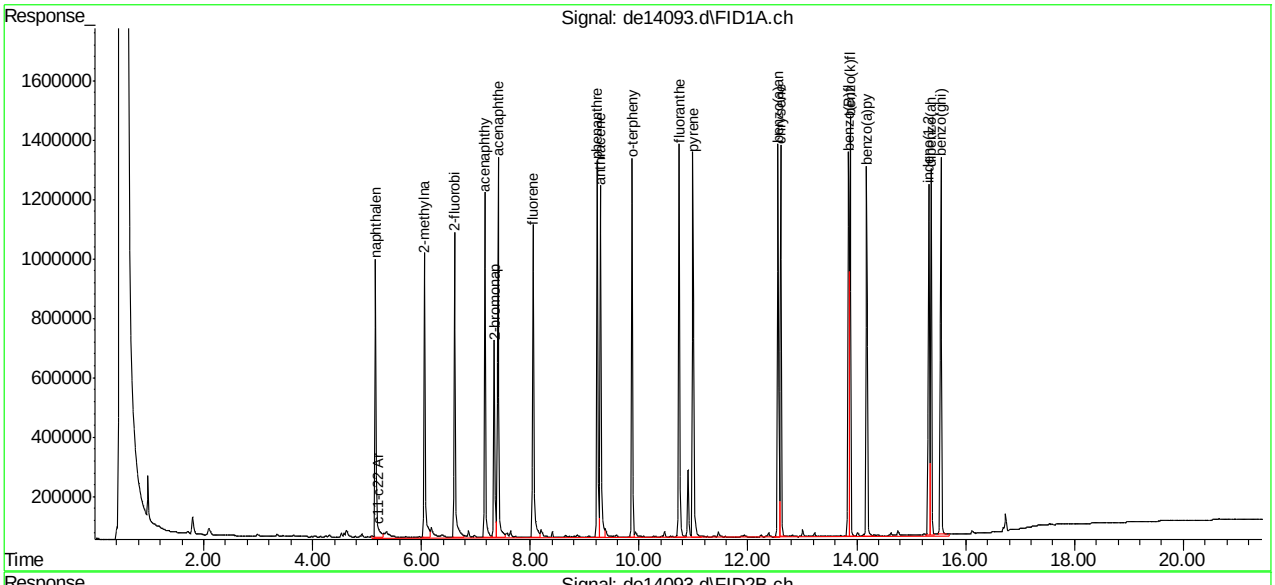
9.4.3
9

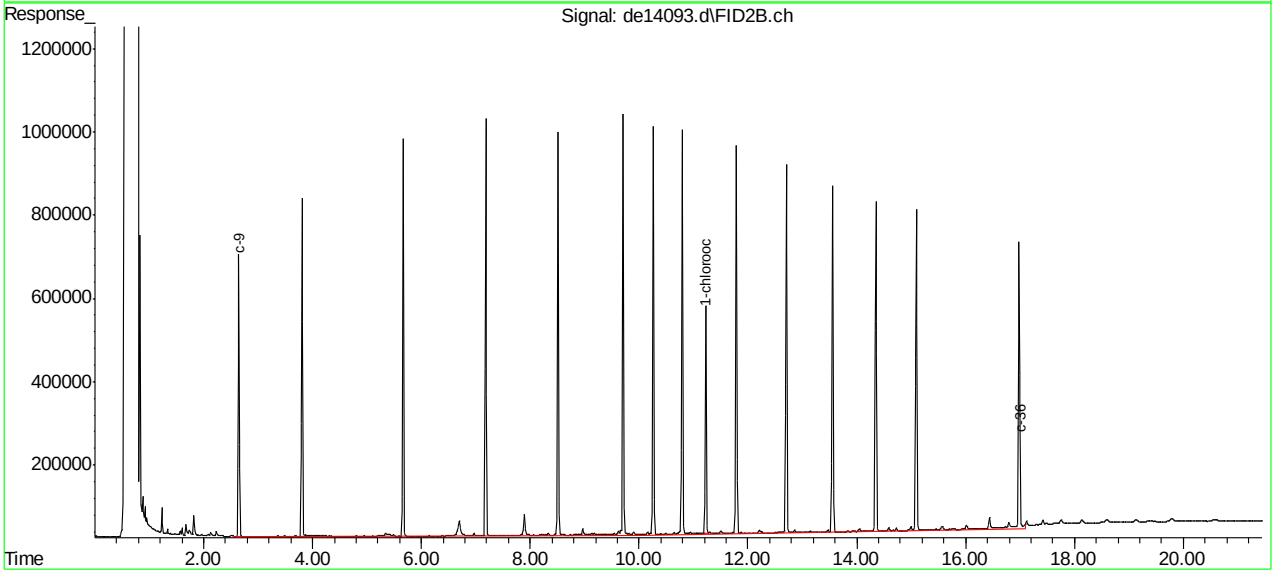
Quantitation Report (QT Reviewed)

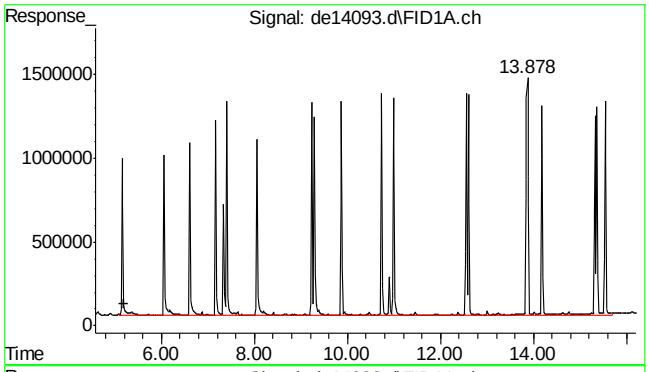
Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:28:34 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

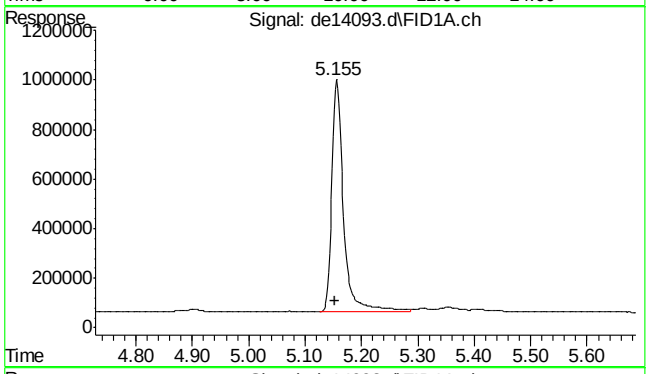






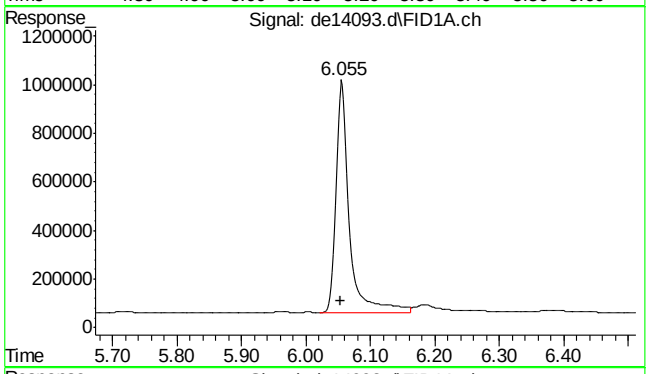
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 33162824
Conc: 337.69 µg/ml m



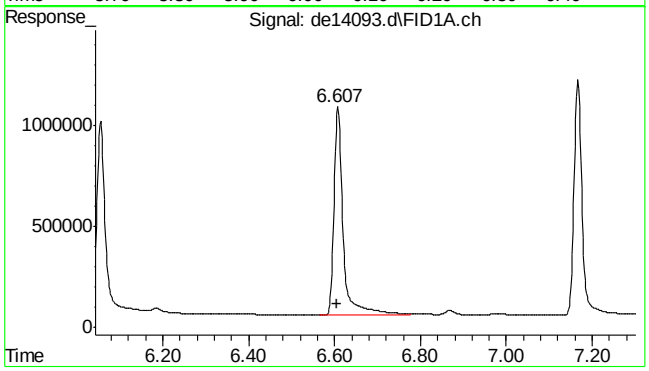
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.002 min
Response: 1357284
Conc: 13.16 µg/ml



#3 2-methylnaphthalene

R.T.: 6.055 min
Delta R.T.: 0.002 min
Response: 1411836
Conc: 13.78 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.000 min
Response: 1558424
Conc: 16.90 µg/ml

9.4.3

9

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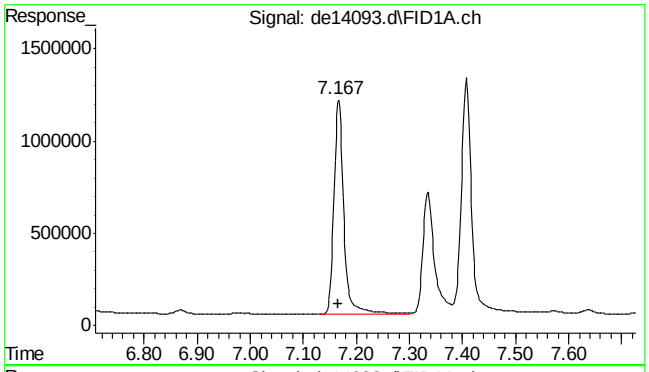
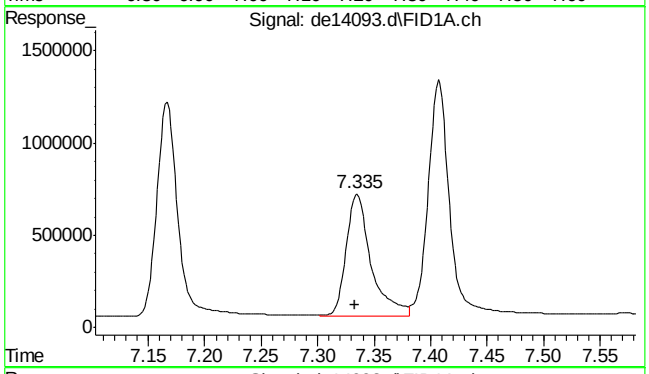


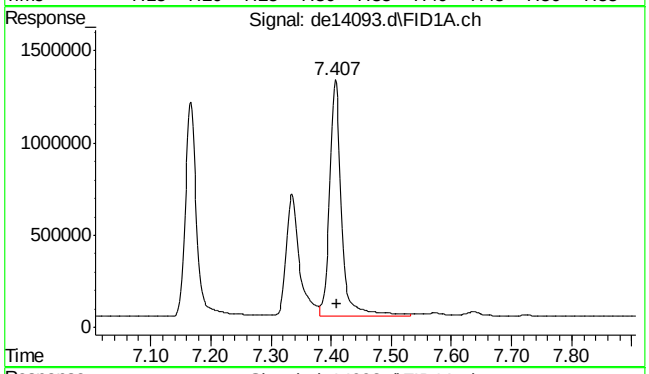
#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 1516046
Conc: 15.07 µg/ml



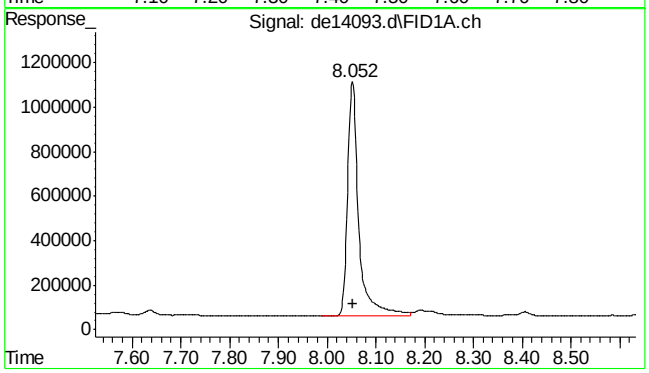
#6 2-bromonaphthalene

R.T.: 7.335 min
Delta R.T.: 0.002 min
Response: 1007898
Conc: 16.06 µg/ml



#7 acenaphthene

R.T.: 7.407 min
Delta R.T.: -0.003 min
Response: 1732239
Conc: 16.76 µg/ml



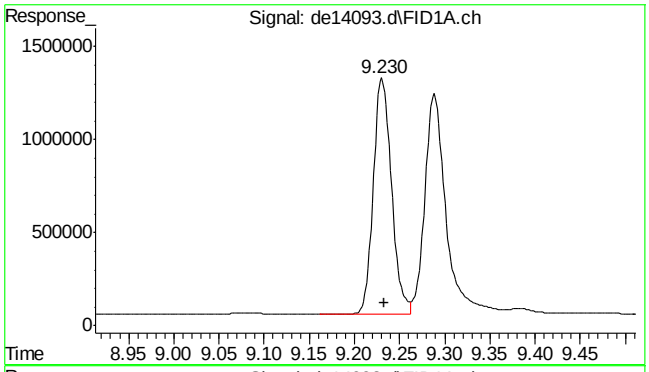
#8 fluorene

R.T.: 8.052 min
Delta R.T.: -0.002 min
Response: 1681245
Conc: 16.55 µg/ml

9.4.3

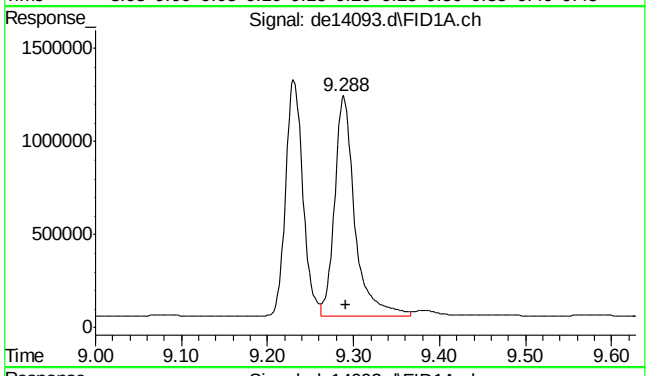
9

SGS ACCUTEST MC45611



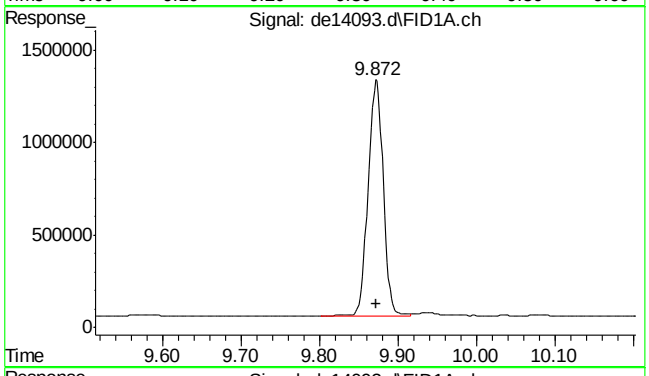
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: -0.003 min
Response: 1765953
Conc: 17.35 µg/ml



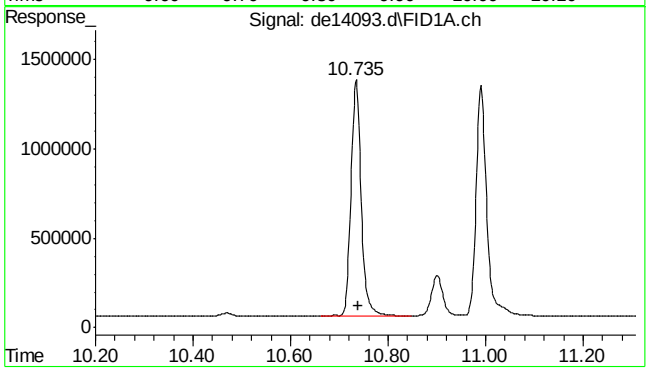
#10 anthracene

R.T.: 9.288 min
Delta R.T.: -0.003 min
Response: 1928235
Conc: 19.88 µg/ml



#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: -0.002 min
Response: 1703924
Conc: 16.64 µg/ml



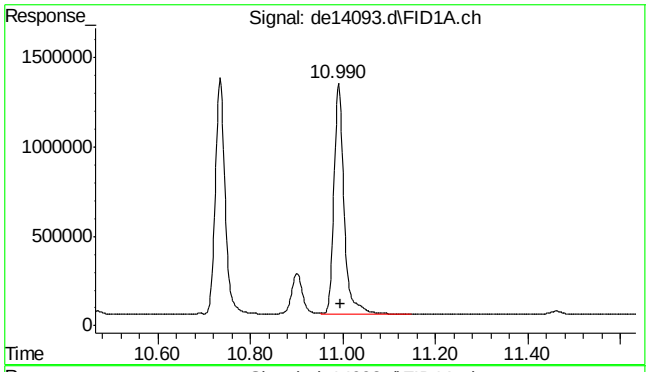
#12 fluoranthene

R.T.: 10.735 min
Delta R.T.: -0.003 min
Response: 1947160
Conc: 19.48 µg/ml

9.4.3

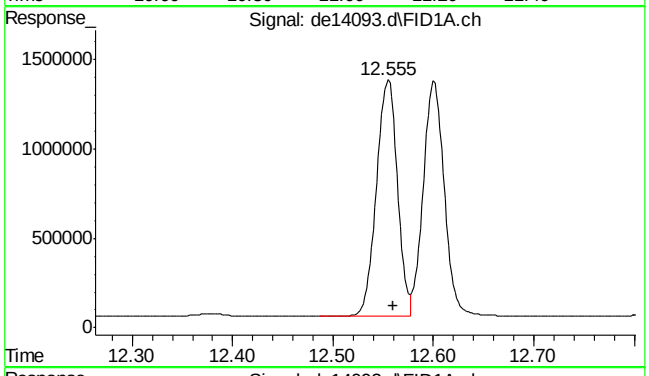
9

SGS ACCUTEST MC45611



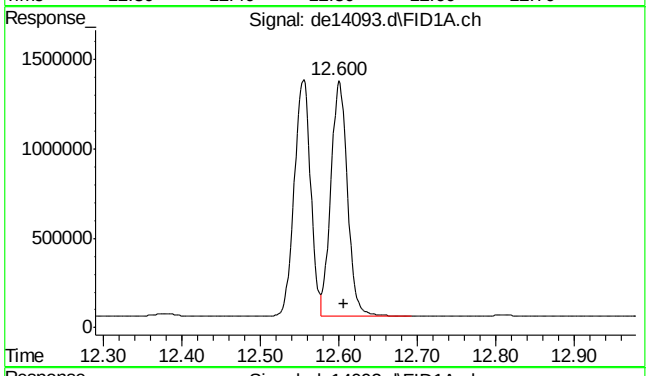
#13 pyrene

R.T.: 10.990 min
Delta R.T.: -0.005 min
Response: 1973035
Conc: 19.45 µg/ml



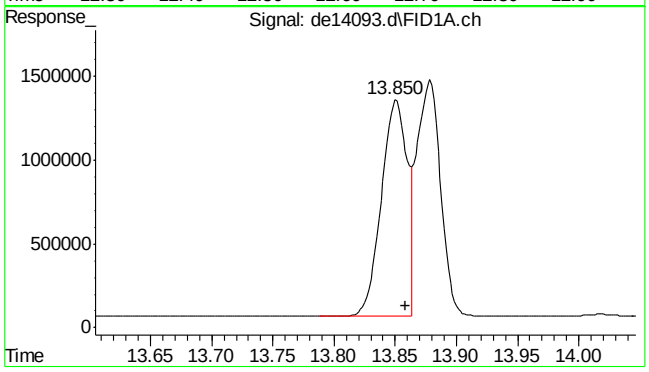
#14 benzo(a)anthracene

R.T.: 12.555 min
Delta R.T.: -0.005 min
Response: 1917805
Conc: 19.84 µg/ml



#15 chrysene

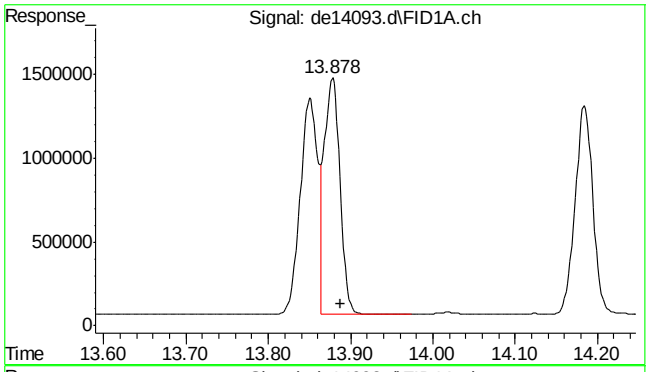
R.T.: 12.600 min
Delta R.T.: -0.007 min
Response: 1929893
Conc: 19.83 µg/ml



#16 benzo(B)fluoranthene

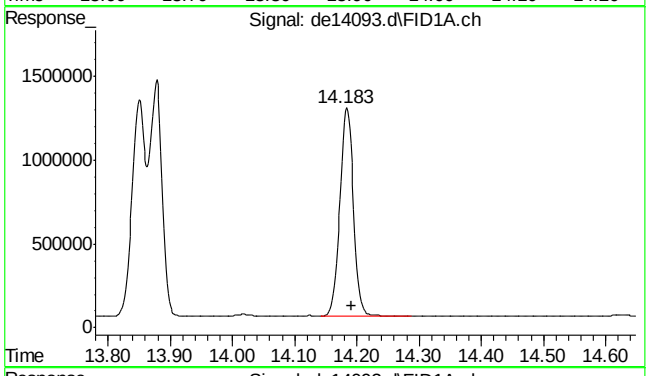
R.T.: 13.850 min
Delta R.T.: -0.008 min
Response: 1930083
Conc: 19.50 µg/ml m

SGS ACCUTEST MC45611



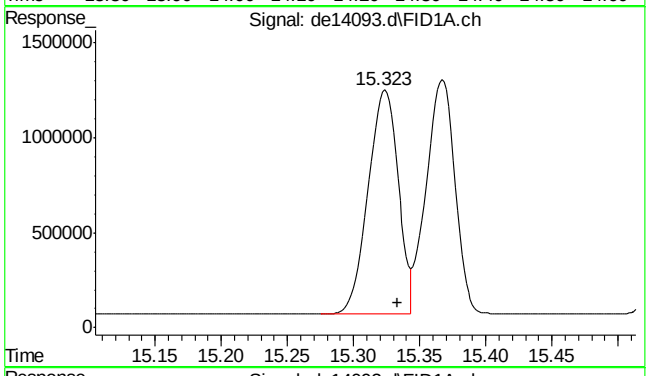
#17 benzo(k)fluoranthene

R.T.: 13.878 min
Delta R.T.: -0.010 min
Response: 1887555
Conc: 19.97 µg/ml m



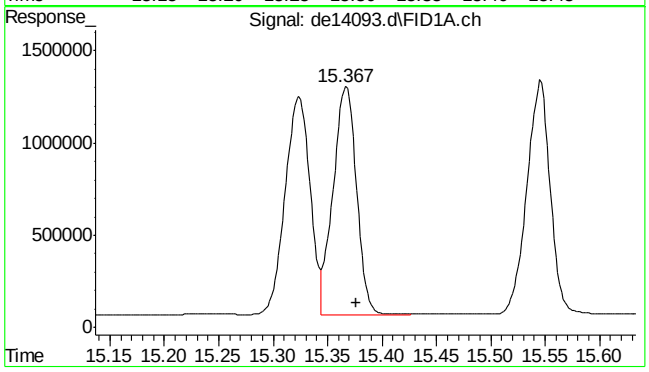
#18 benzo(a)pyrene

R.T.: 14.183 min
Delta R.T.: -0.008 min
Response: 1885239
Conc: 20.40 µg/ml



#19 indeno(1,2,3-cd)pyrene

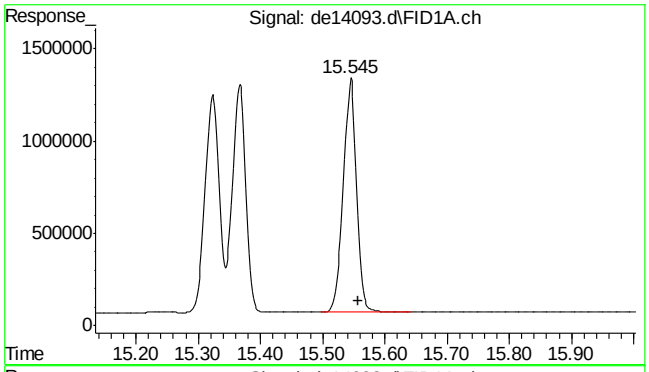
R.T.: 15.323 min
Delta R.T.: -0.010 min
Response: 1877437
Conc: 19.83 µg/ml m



#20 dibenzo(ah)anthracene

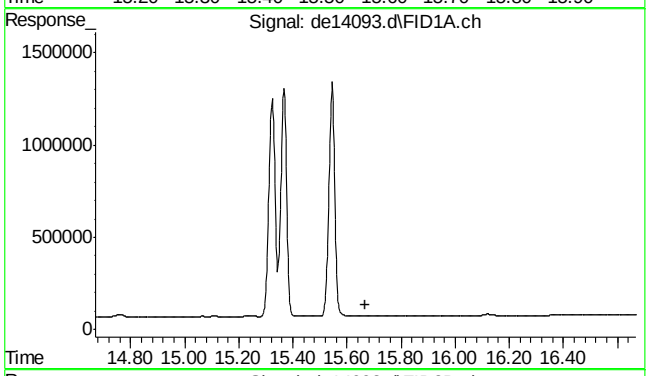
R.T.: 15.367 min
Delta R.T.: -0.010 min
Response: 1846949
Conc: 20.21 µg/ml m

SGS ACCUTEST MC45611



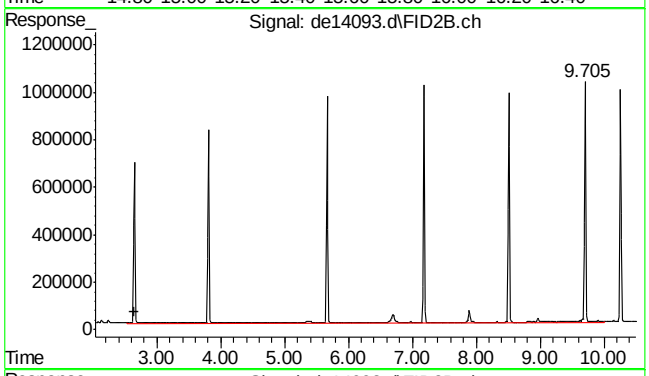
#21 benzo(ghi)perylene

R.T.: 15.545 min
Delta R.T.: -0.012 min
Response: 1892084
Conc: 20.54 µg/ml



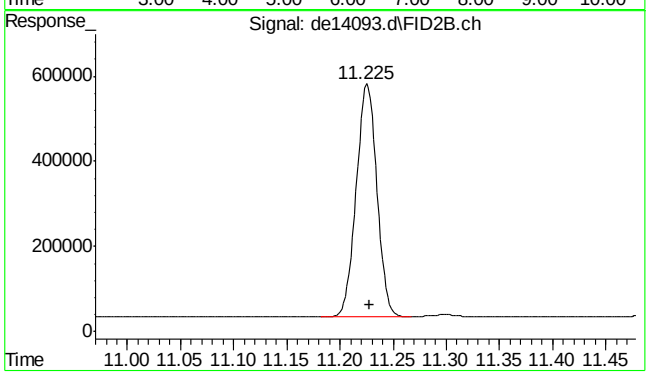
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



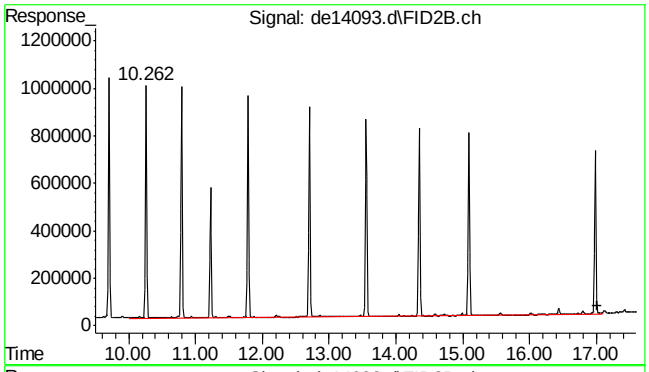
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 7807809
Conc: 105.69 µg/ml m



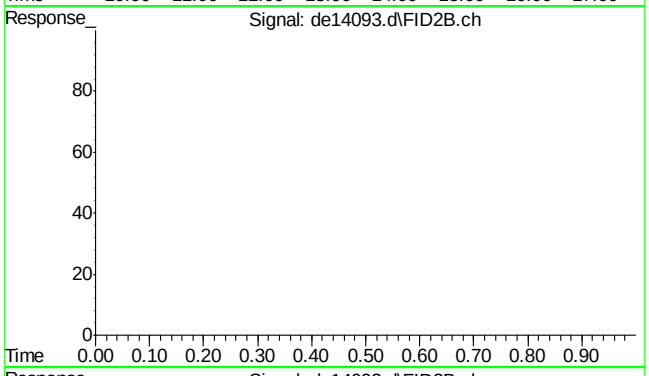
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 741333
Conc: 13.10 µg/ml



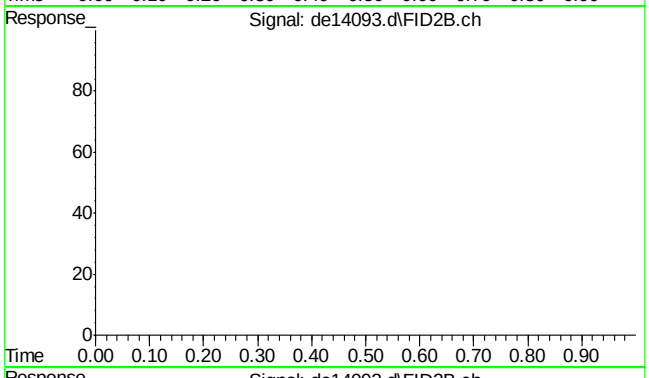
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 10936105
Conc: 163.70 µg/ml m



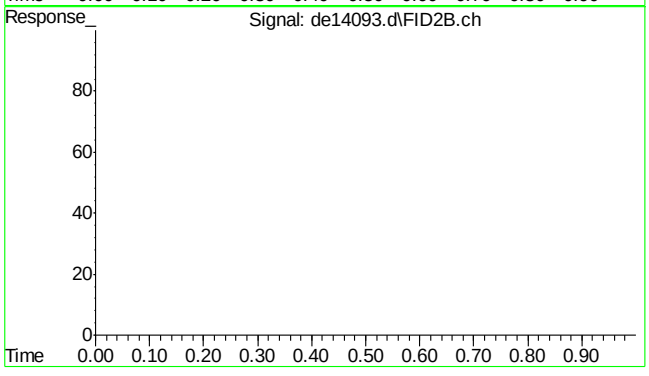
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



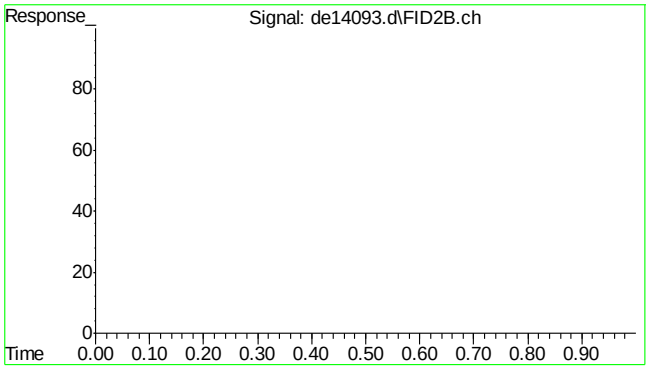
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.3

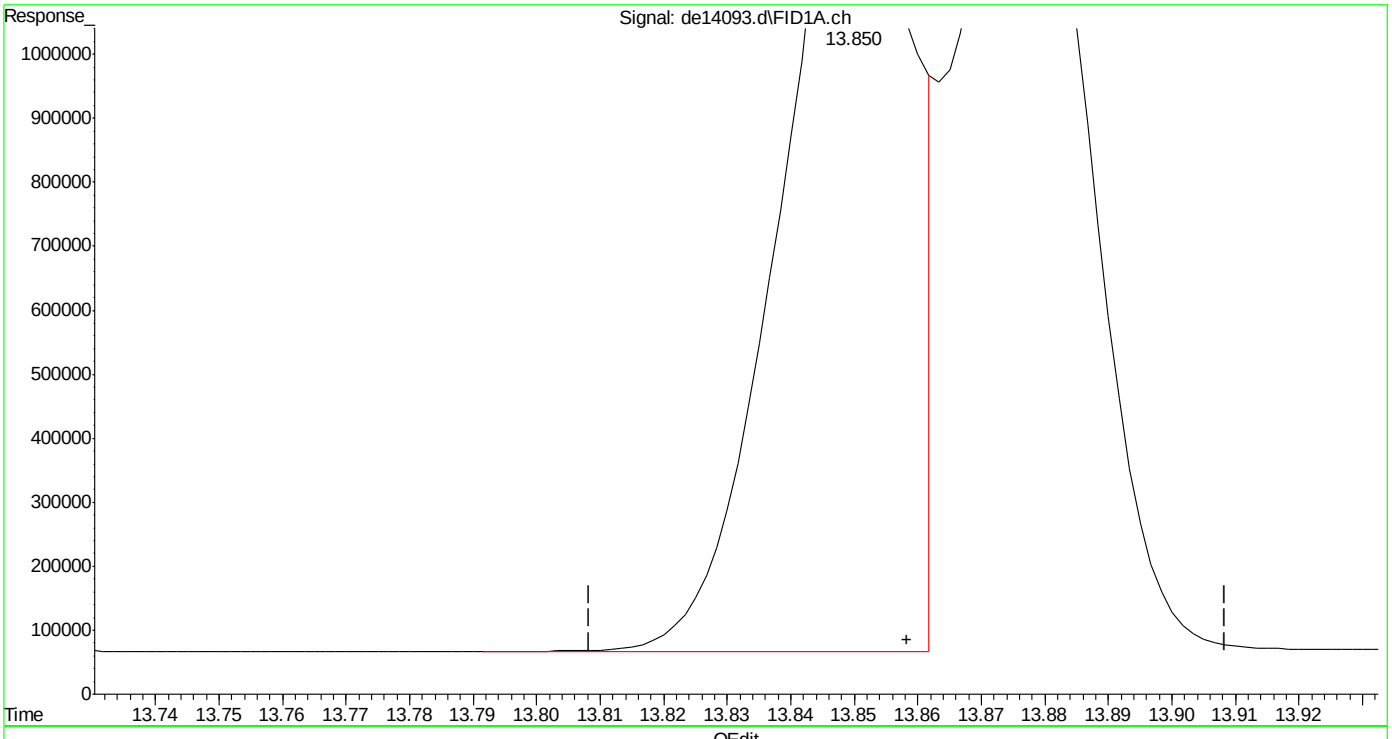
9

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 16 May 2016  10:40 am
Operator  : thomasa
Sample    : op47424-ms
Misc      : op47424,gde791,11.17,,,2,,s
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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

13.850min 18.579 µg/ml

response 1839376

(+) = Expected Retention Time

EPH160516W.M Mon May 16 11:25:06 2016

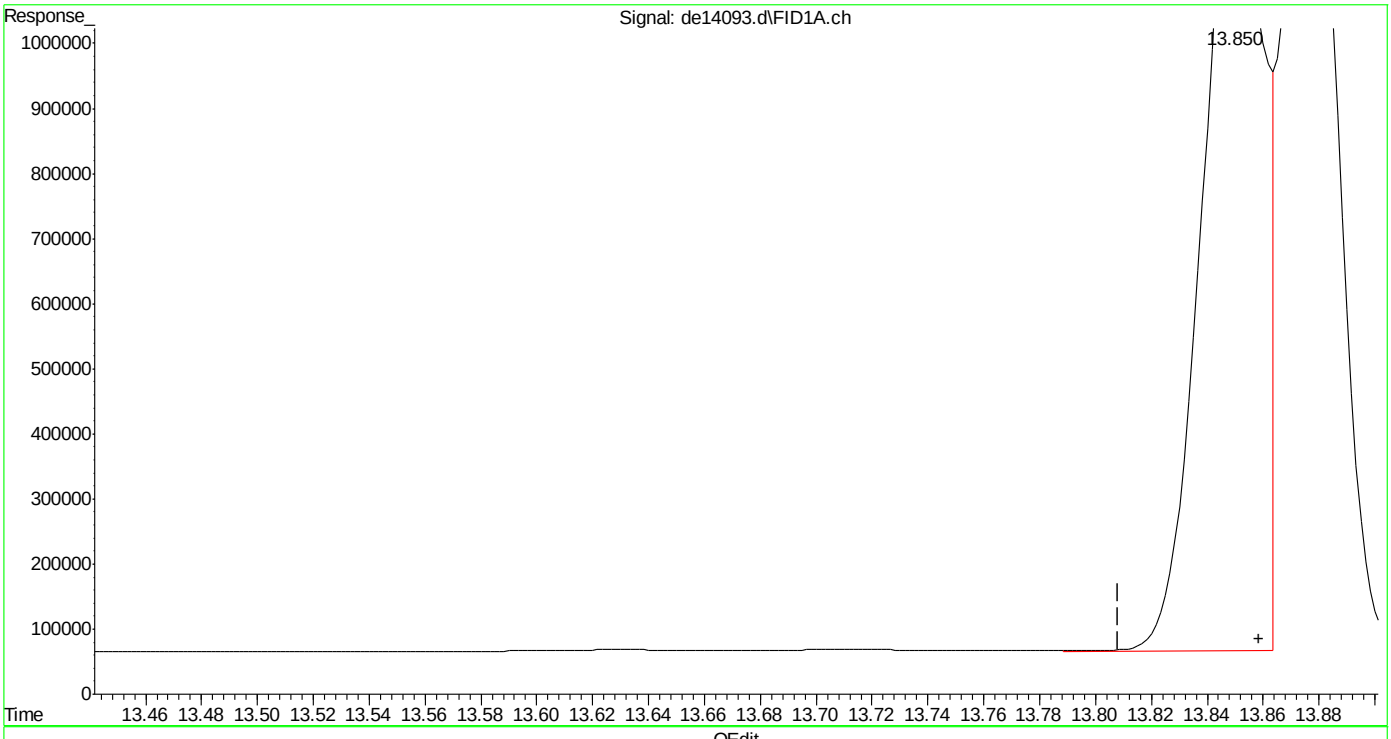
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
13.850min 19.495 µg/ml m
response 1930083

(+) = Expected Retention Time

EPH160516W.M Mon May 16 11:25:16 2016

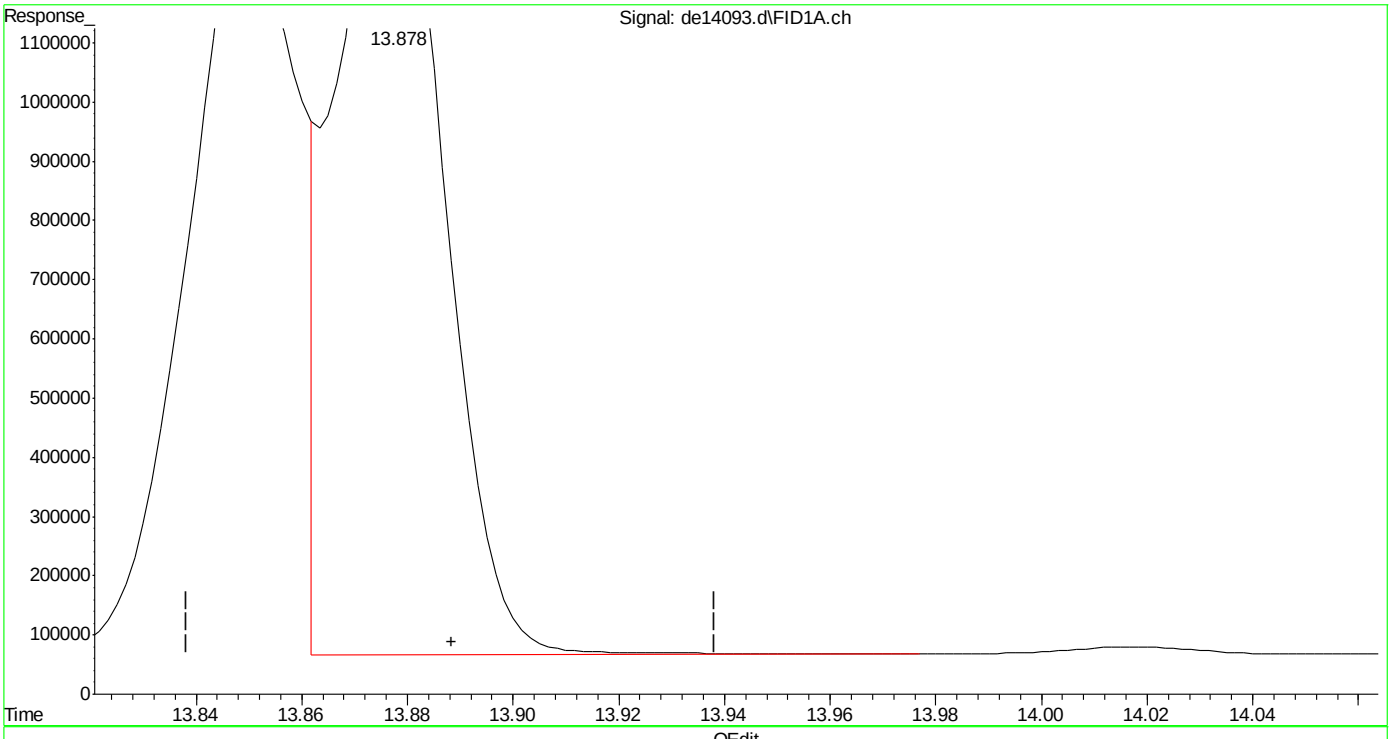
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
13.878min 20.873 µg/ml
response 1972583

(+) = Expected Retention Time
EPH160516W.M Mon May 16 11:25:20 2016

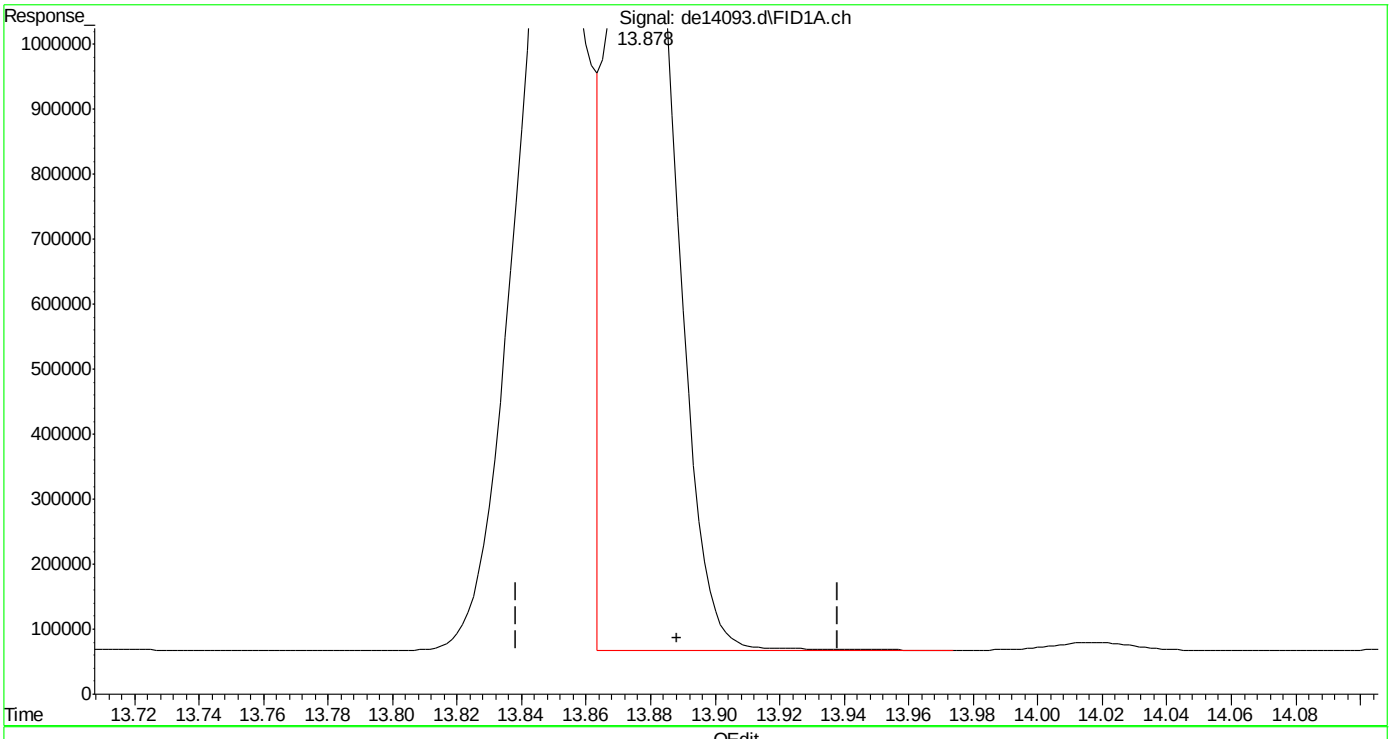
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
13.878min 19.974 µg/ml m
response 1887555

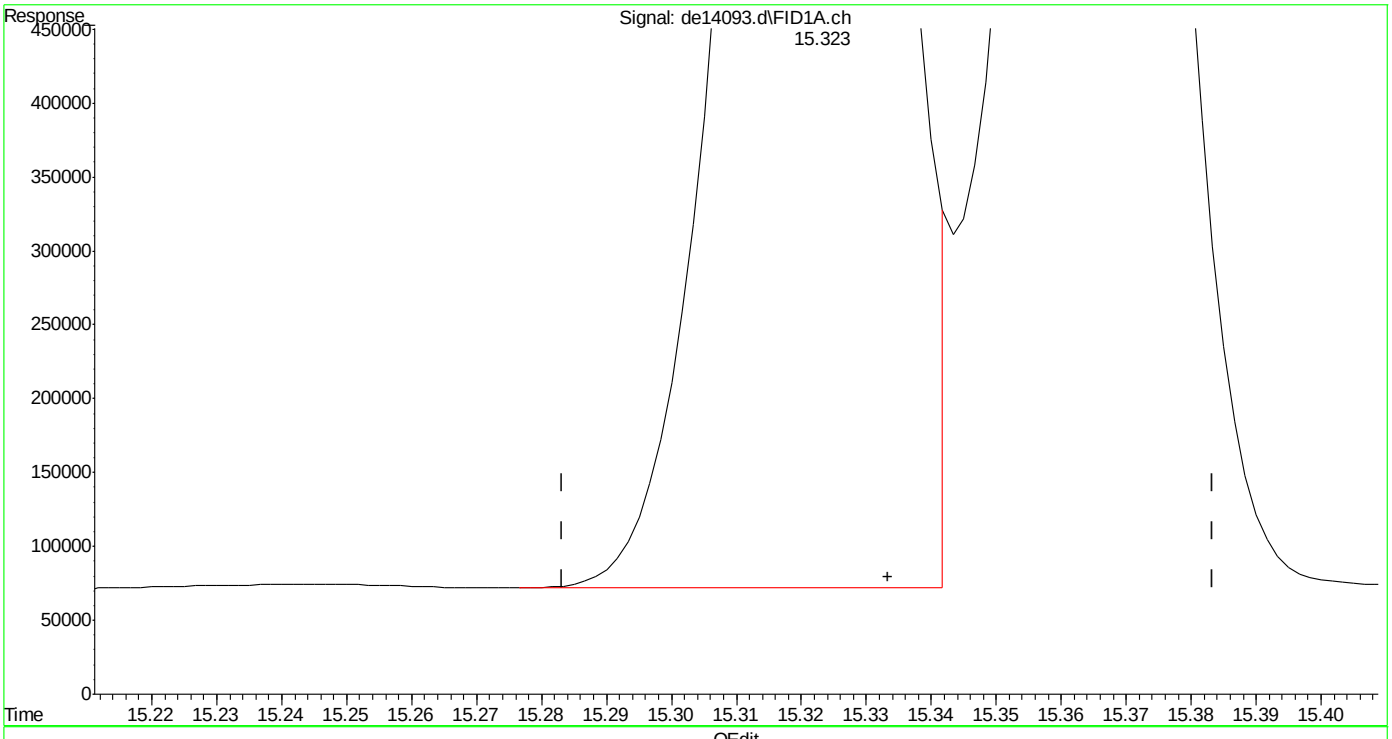
(+) = Expected Retention Time
EPH160516W.M Mon May 16 11:25:36 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
15.323min 19.576 µg/ml
response 1853025

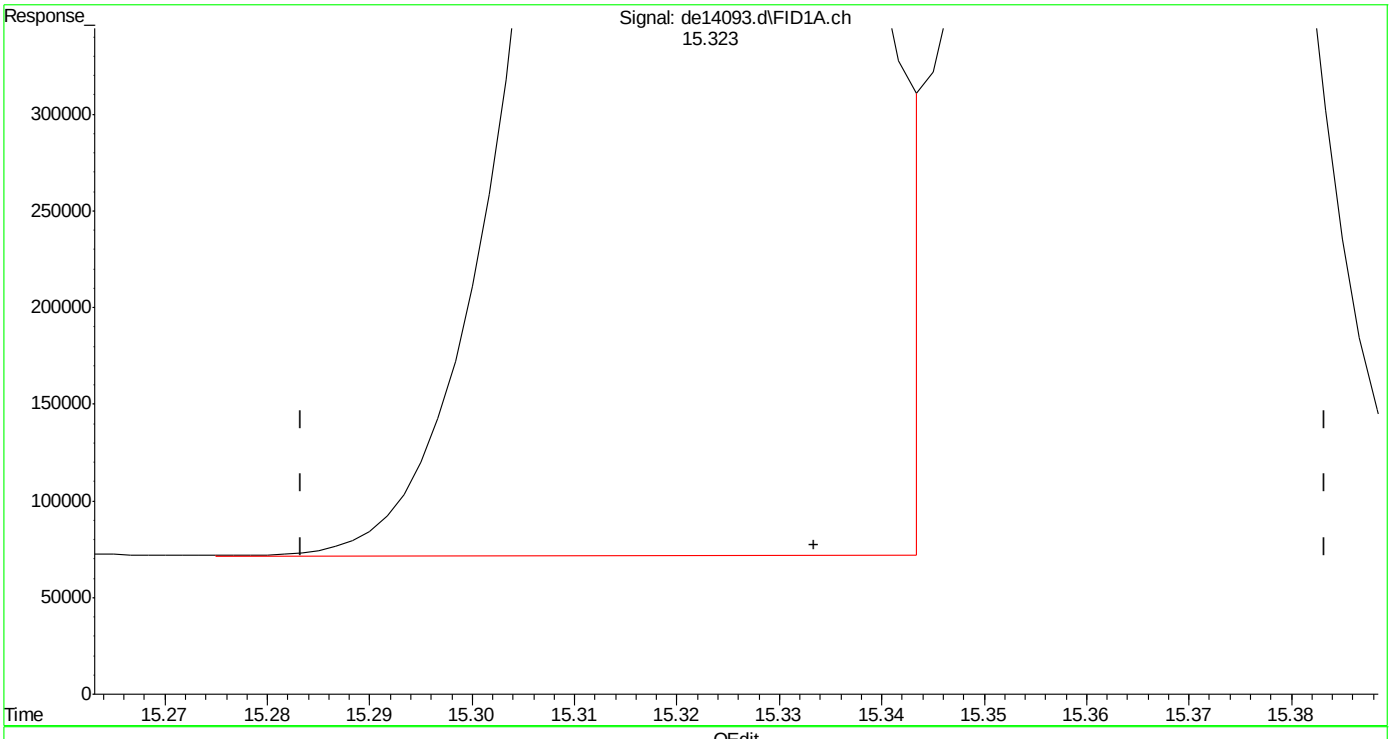
(+) = Expected Retention Time
EPH160516W.M Mon May 16 11:25:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
15.323min 19.834 µg/ml m
response 1877437

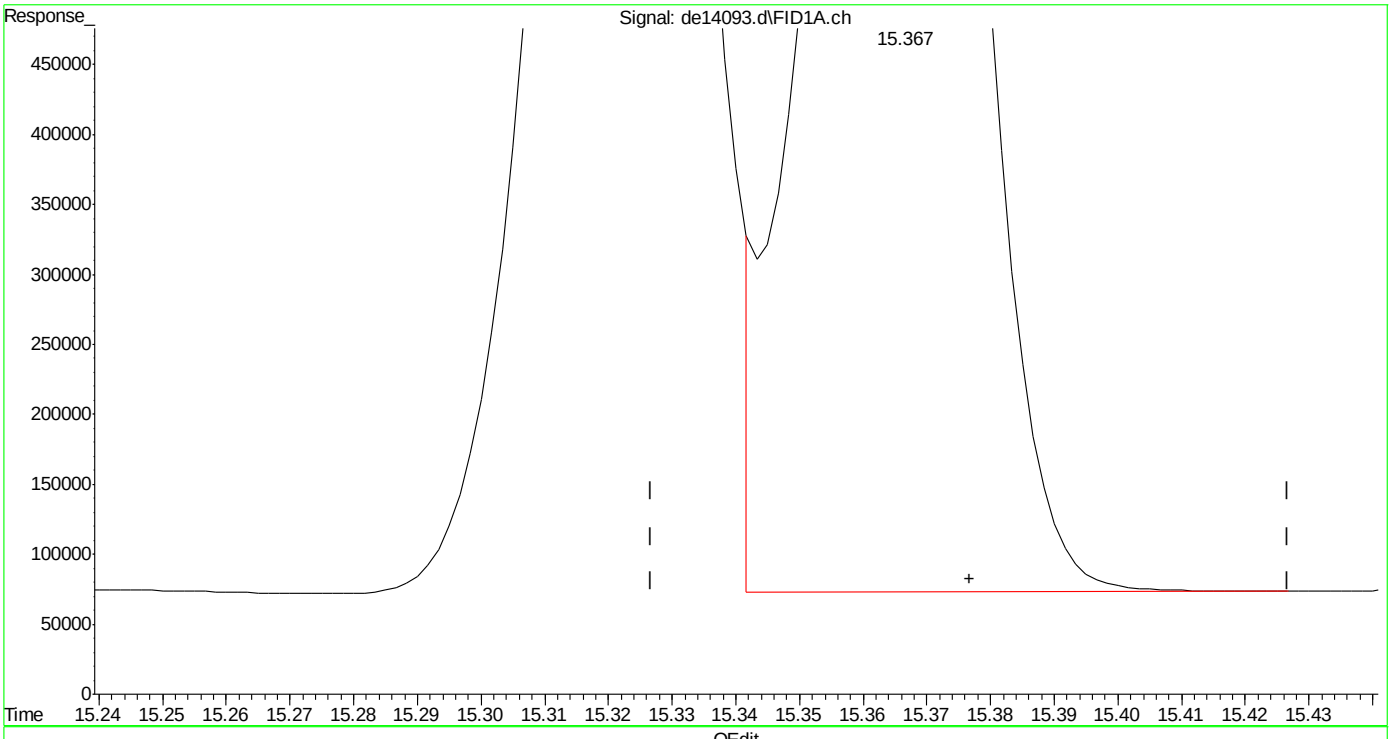
(+) = Expected Retention Time
EPH160516W.M Mon May 16 11:26:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
15.367min 20.406 µg/ml
response 1865055

(+) = Expected Retention Time

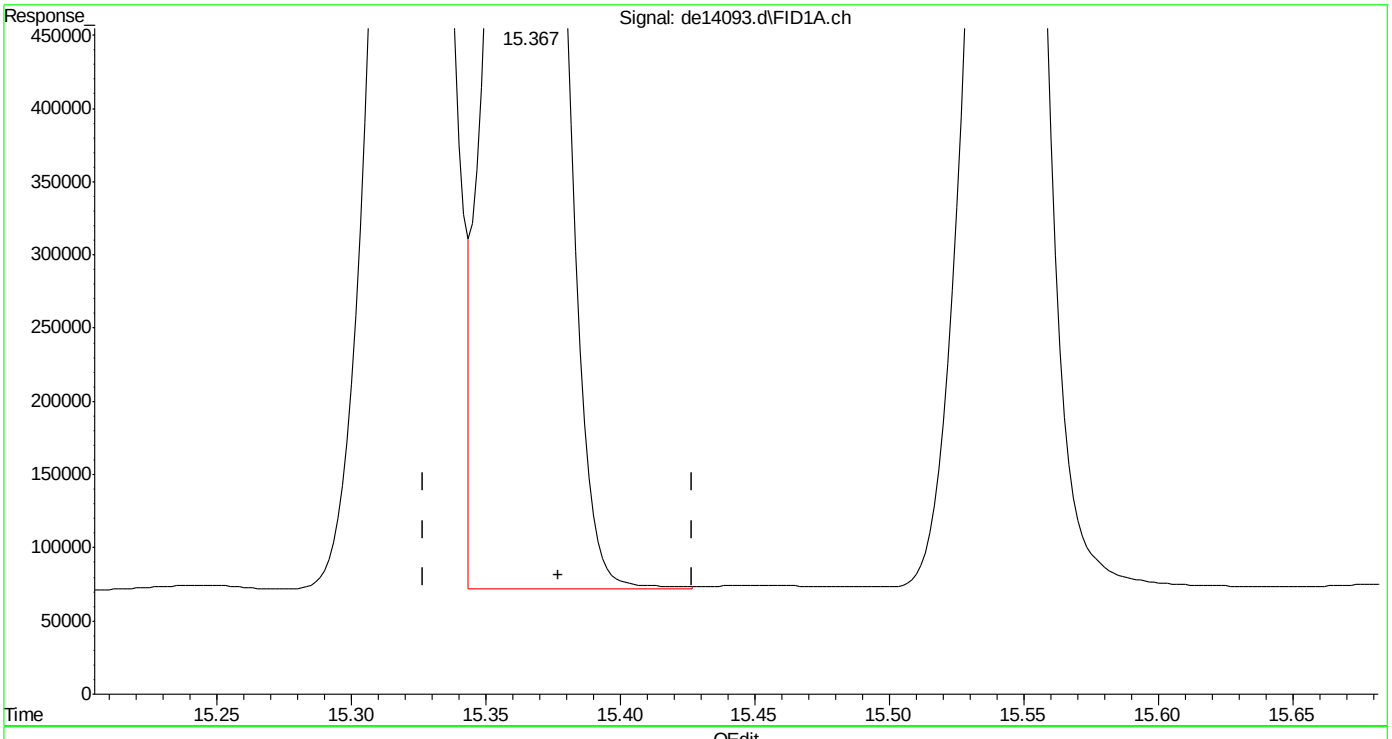
EPH160516W.M Mon May 16 11:26:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14093.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 10:40 am
Operator : thomasa
Sample : op47424-ms
Misc : op47424,gde791,11.17,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 11:24:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
15.367min 20.208 µg/ml m
response 1846949

(+) = Expected Retention Time
EPH160516W.M Mon May 16 11:26:16 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 15:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:12:48 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1645644	17.843 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 89.22%#	
6) s 2-bromonaphthalene	7.335	1009098	16.080 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 80.40%#	
11) s o-terphenyl	9.872	1730641	16.896 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 84.48%#	
35) s 1-chlorooctadecane	11.225	1078385	19.061 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 95.30%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	34074922	346.979 µg/mlm
2) naphthalene	5.155	1568804	15.210 µg/ml
3) 2-methylnaphthalene	6.053	1614503	15.754 µg/ml
5) acenaphthylene	7.165	1642202	16.324 µg/ml
7) acenaphthene	7.407	1832105	17.723 µg/ml
8) fluorene	8.052	1749840	17.228 µg/ml
9) phenanthrene	9.230	1812423	17.810 µg/ml
10) anthracene	9.288	1986499	20.478 µg/ml
12) fluoranthene	10.735	1941669	19.428 µg/ml
13) pyrene	10.990	1970305	19.419 µg/ml
14) benzo(a)anthracene	12.553	1934211	20.007 µg/ml
15) chrysene	12.600	1920173	19.726 µg/ml
16) benzo(B)fluoranthene	13.850	1966056	19.859 µg/mlm
17) benzo(k)fluoranthene	13.877	1858291	19.664 µg/mlm
18) benzo(a)pyrene	14.183	1877142	20.308 µg/ml
19) indeno(1,2,3-cd)pyrene	15.325	1881642	19.878 µg/mlm
20) dibenzo(ah)anthracene	15.367	1843410	20.169 µg/mlm
21) benzo(ghi)perylene	15.545	1889412	20.510 µg/ml
25) h c-9	2.648	9141402	123.746 µg/mlm
41) h c-36	17.008	12349340	184.853 µg/mlm

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

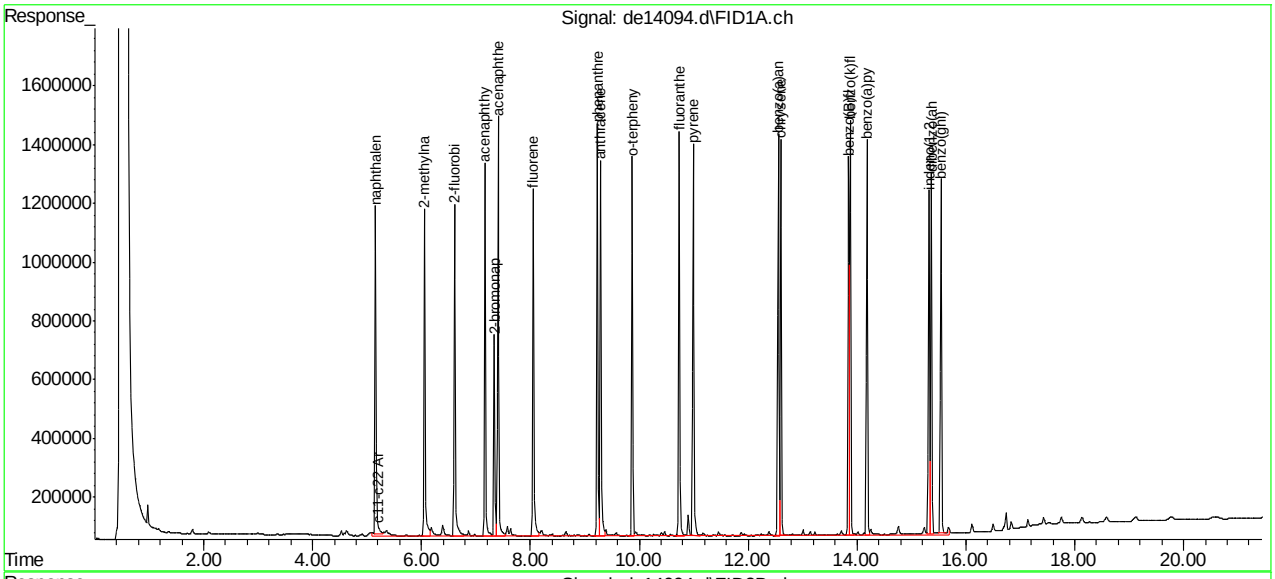
9.4.4
9

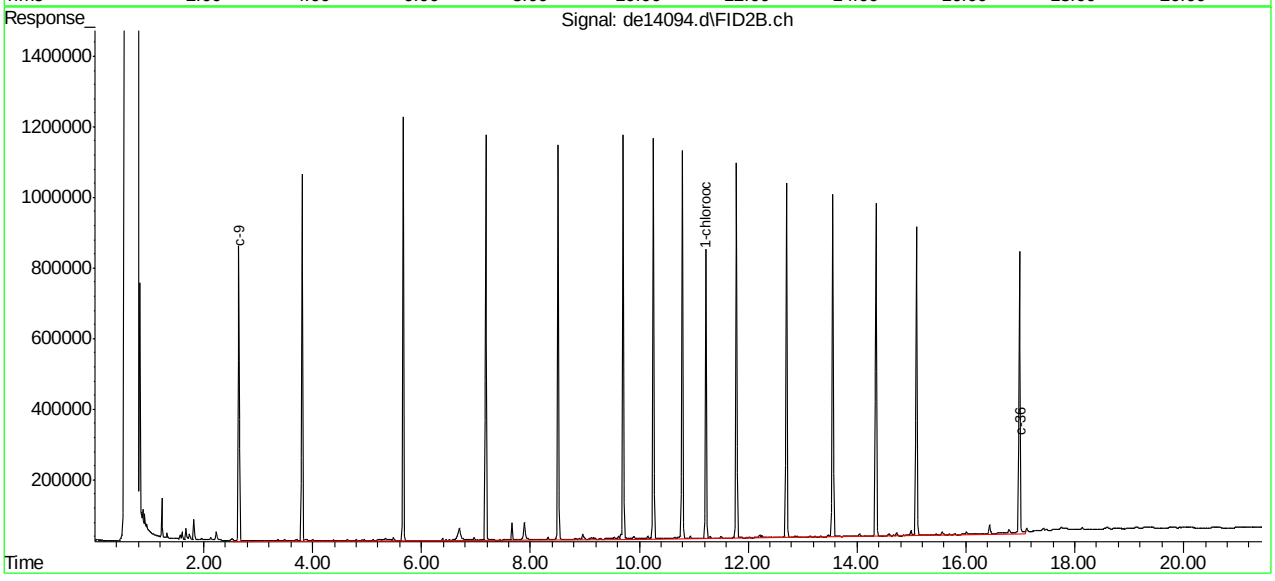
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

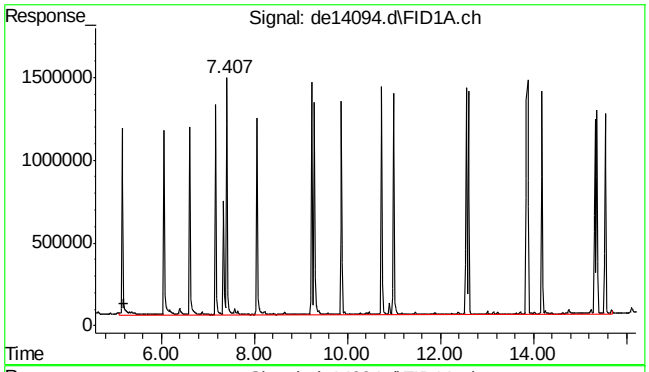
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:12:48 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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



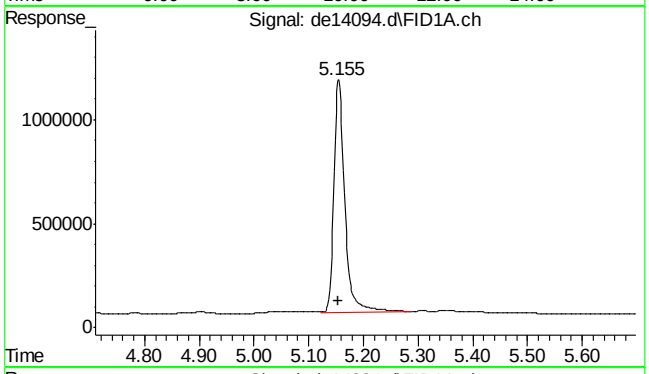


EPH160516W.M Mon May 16 15:25:32 2016 Page: 2



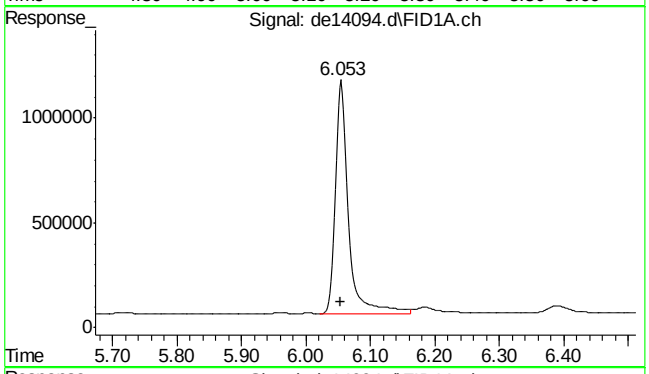
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 34074922
Conc: 346.98 µg/ml m



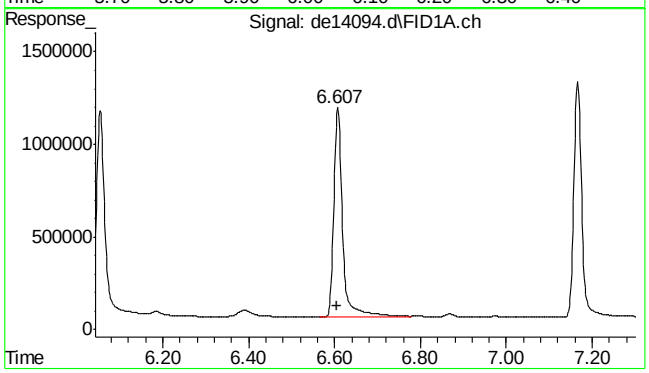
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.002 min
Response: 1568804
Conc: 15.21 µg/ml



#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.000 min
Response: 1614503
Conc: 15.75 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.000 min
Response: 1645644
Conc: 17.84 µg/ml

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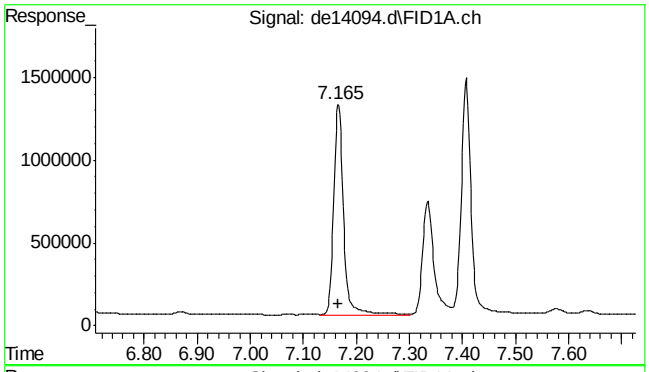
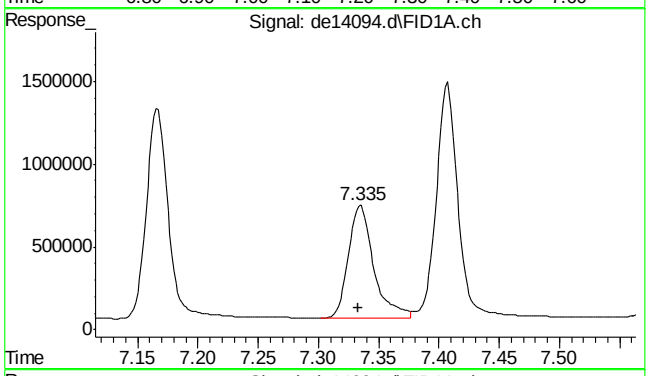


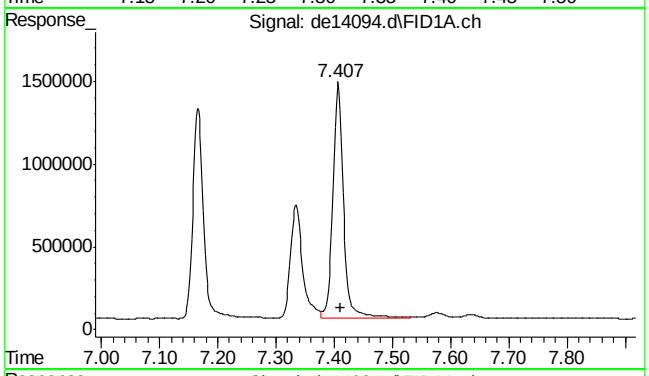
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: -0.002 min
Response: 1642202
Conc: 16.32 µg/ml



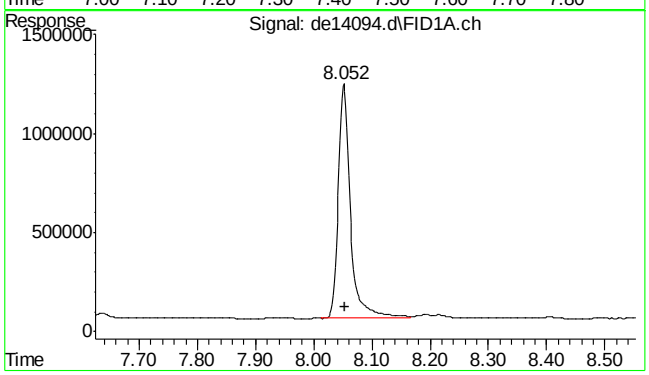
#6 2-bromonaphthalene

R.T.: 7.335 min
Delta R.T.: 0.002 min
Response: 1009098
Conc: 16.08 µg/ml



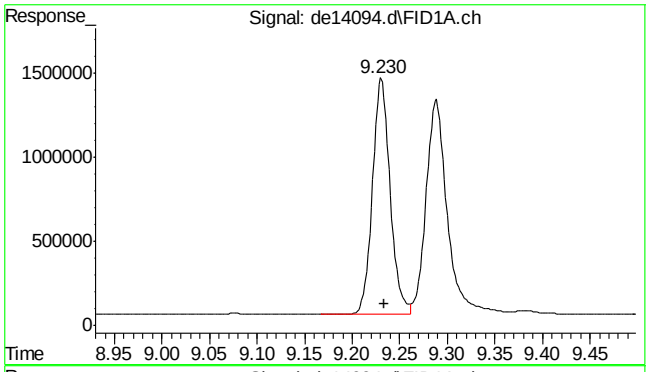
#7 acenaphthene

R.T.: 7.407 min
Delta R.T.: -0.003 min
Response: 1832105
Conc: 17.72 µg/ml



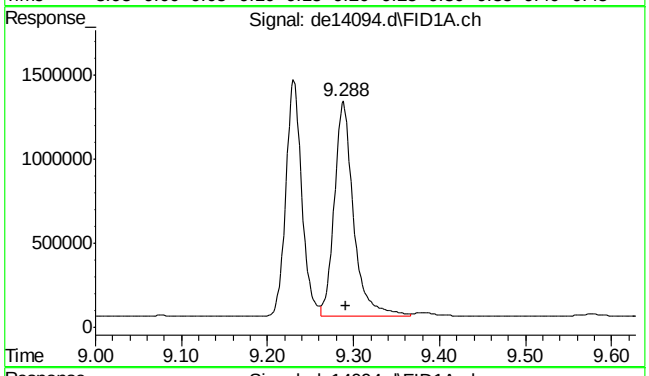
#8 fluorene

R.T.: 8.052 min
Delta R.T.: -0.002 min
Response: 1749840
Conc: 17.23 µg/ml



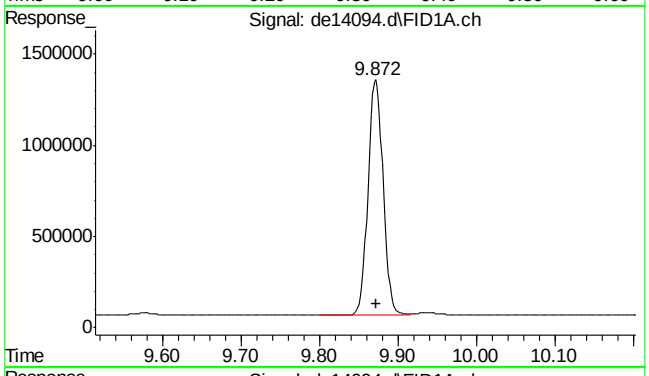
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: -0.003 min
Response: 1812423
Conc: 17.81 µg/ml



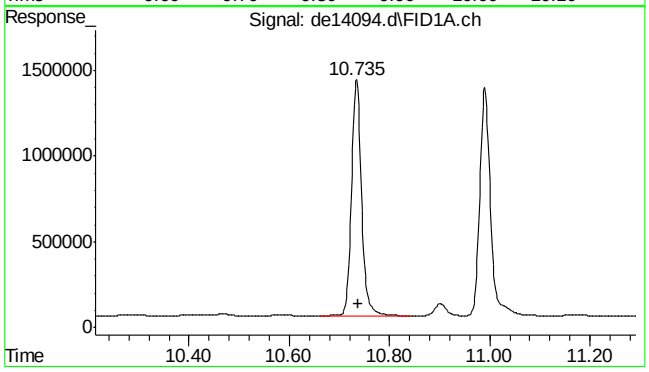
#10 anthracene

R.T.: 9.288 min
Delta R.T.: -0.003 min
Response: 1986499
Conc: 20.48 µg/ml



#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: -0.002 min
Response: 1730641
Conc: 16.90 µg/ml



#12 fluoranthene

R.T.: 10.735 min
Delta R.T.: -0.003 min
Response: 1941669
Conc: 19.43 µg/ml

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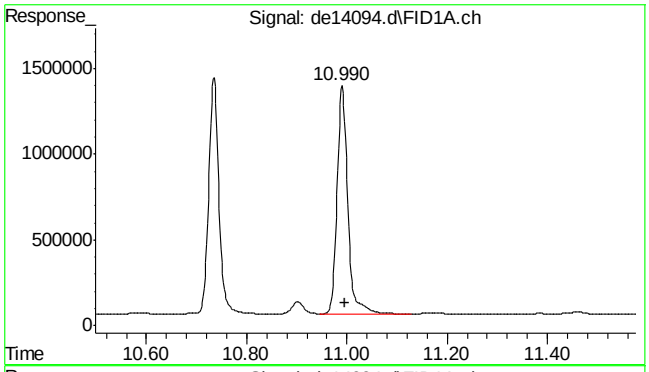
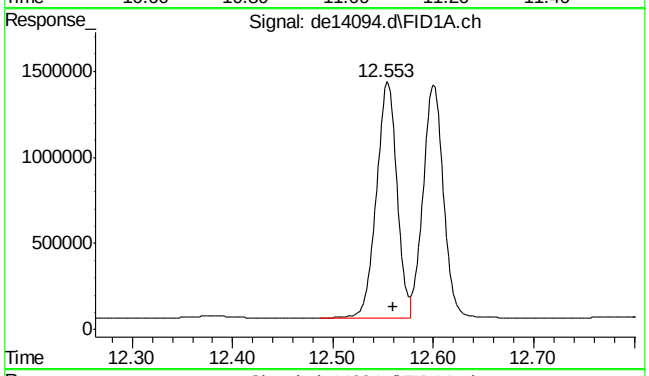


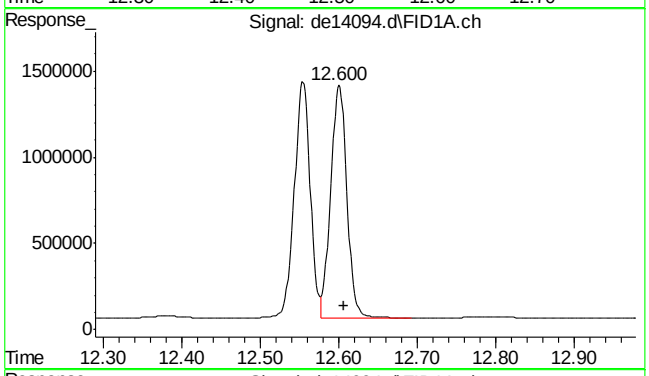
#13 pyrene

R.T.: 10.990 min
Delta R.T.: -0.005 min
Response: 1970305
Conc: 19.42 µg/ml



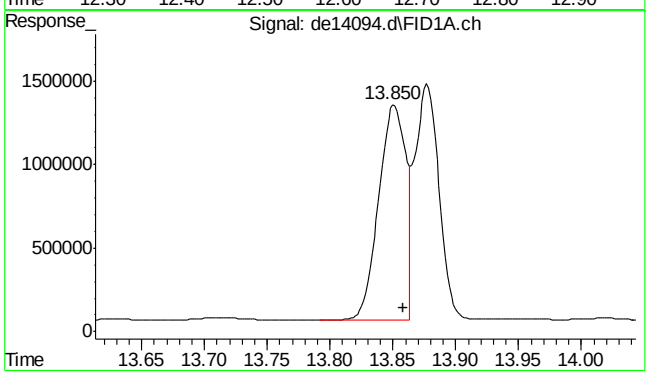
#14 benzo(a)anthracene

R.T.: 12.553 min
Delta R.T.: -0.007 min
Response: 1934211
Conc: 20.01 µg/ml



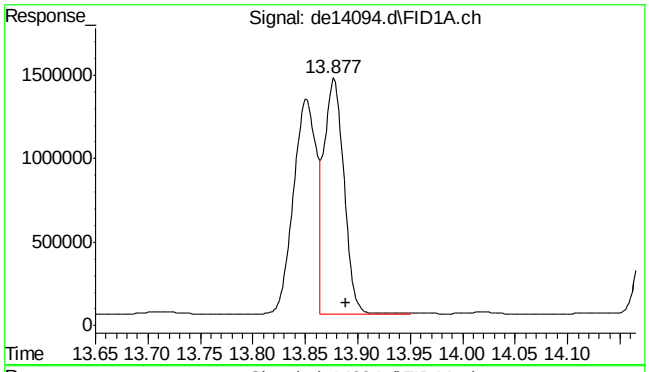
#15 chrysene

R.T.: 12.600 min
Delta R.T.: -0.007 min
Response: 1920173
Conc: 19.73 µg/ml



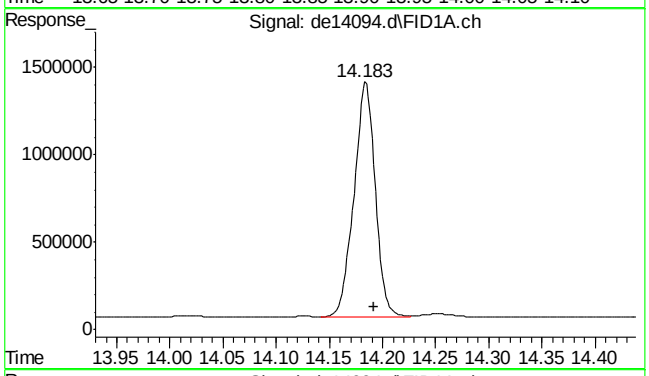
#16 benzo(B)fluoranthene

R.T.: 13.850 min
Delta R.T.: -0.008 min
Response: 1966056
Conc: 19.86 µg/ml m



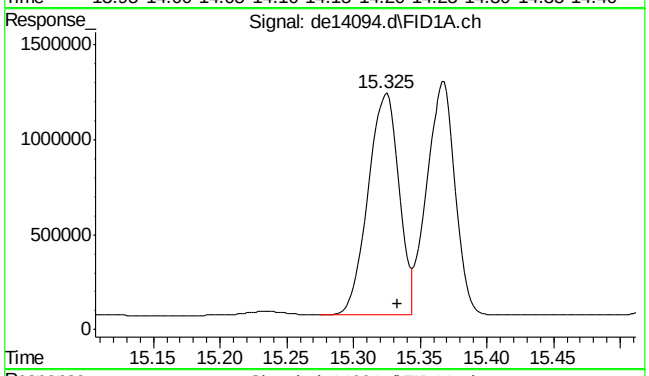
#17 benzo(k)fluoranthene

R.T.: 13.877 min
Delta R.T.: -0.012 min
Response: 1858291
Conc: 19.66 µg/ml m



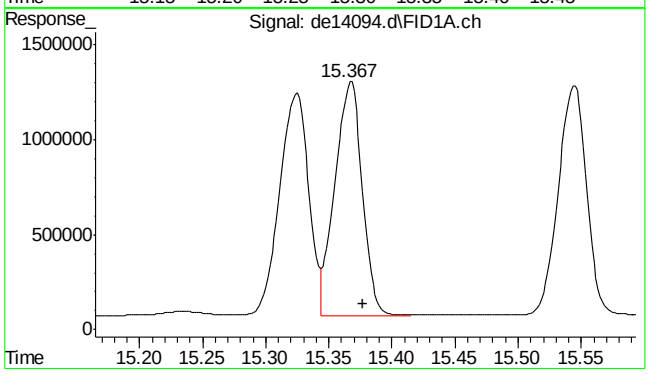
#18 benzo(a)pyrene

R.T.: 14.183 min
Delta R.T.: -0.008 min
Response: 1877142
Conc: 20.31 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.325 min
Delta R.T.: -0.008 min
Response: 1881642
Conc: 19.88 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.367 min
Delta R.T.: -0.010 min
Response: 1843410
Conc: 20.17 µg/ml m

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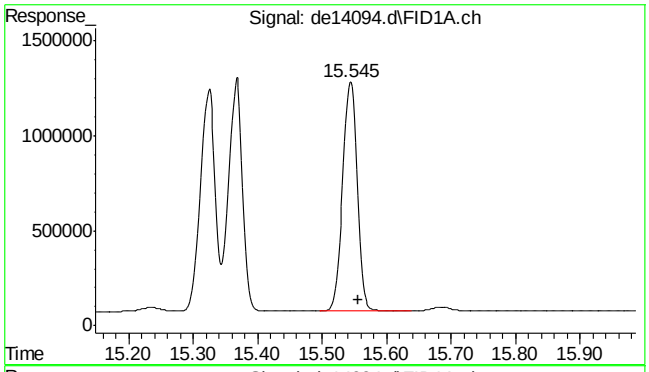
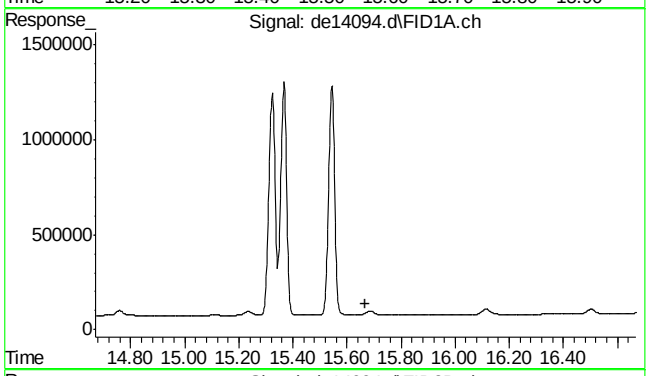


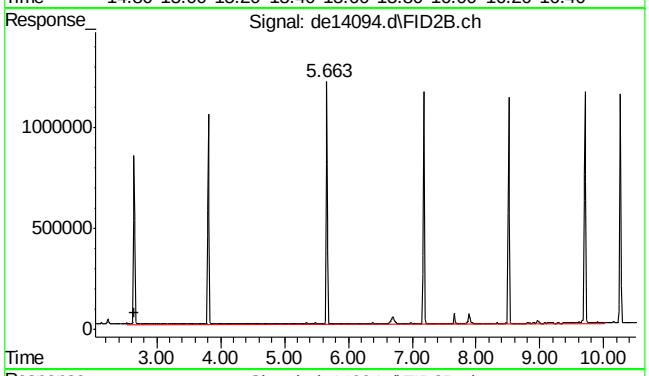
#21 benzo(ghi)perylene

R.T.: 15.545 min
Delta R.T.: -0.012 min
Response: 1889412
Conc: 20.51 µg/ml



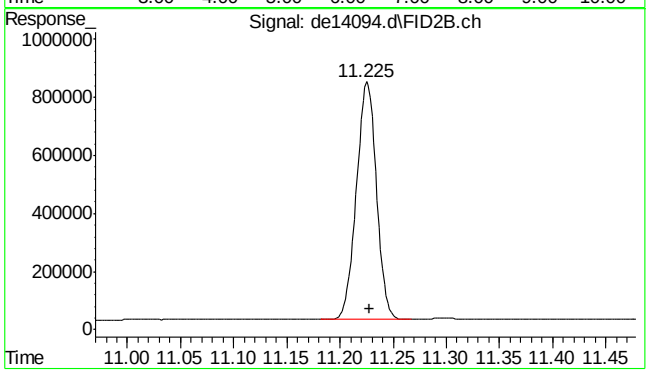
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 9141402
Conc: 123.75 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 1078385
Conc: 19.06 µg/ml

9.4.4

9

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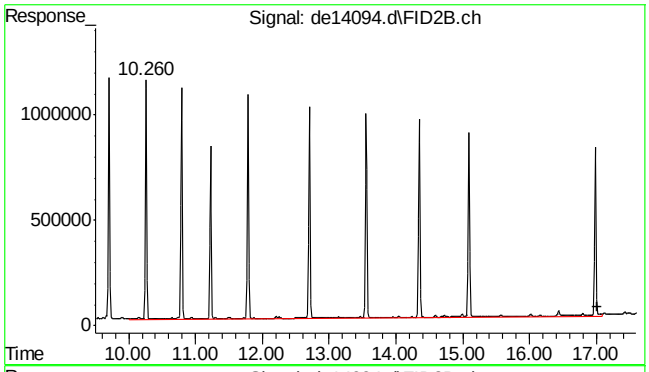
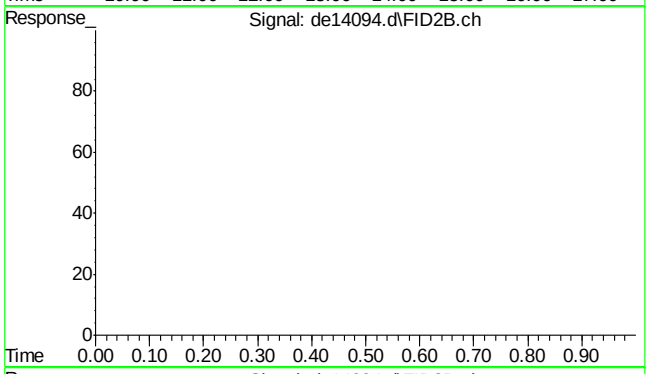


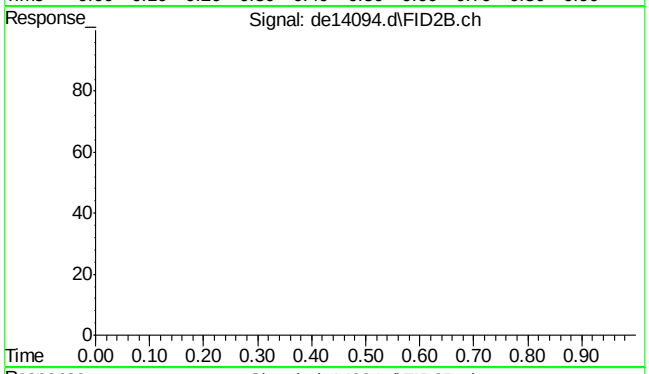
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 12349340
Conc: 184.85 µg/ml m



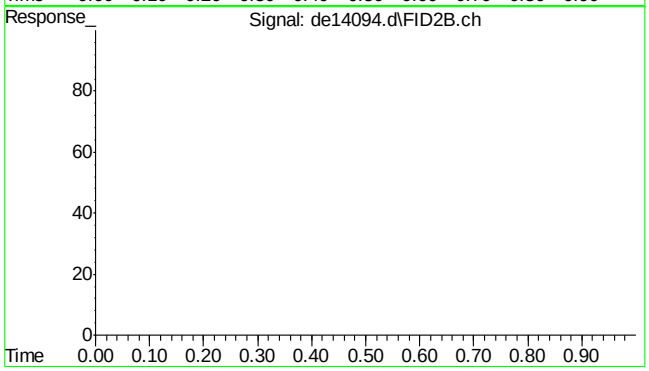
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



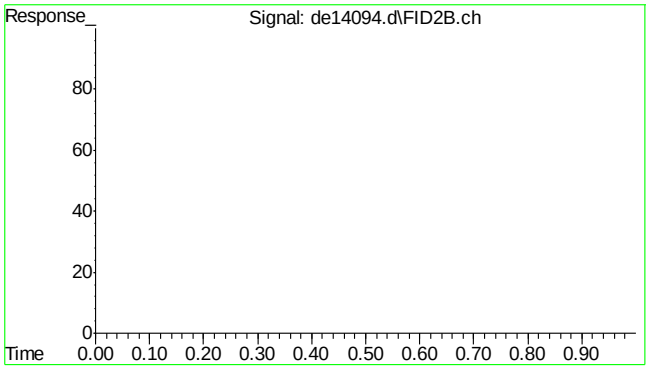
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.4

9

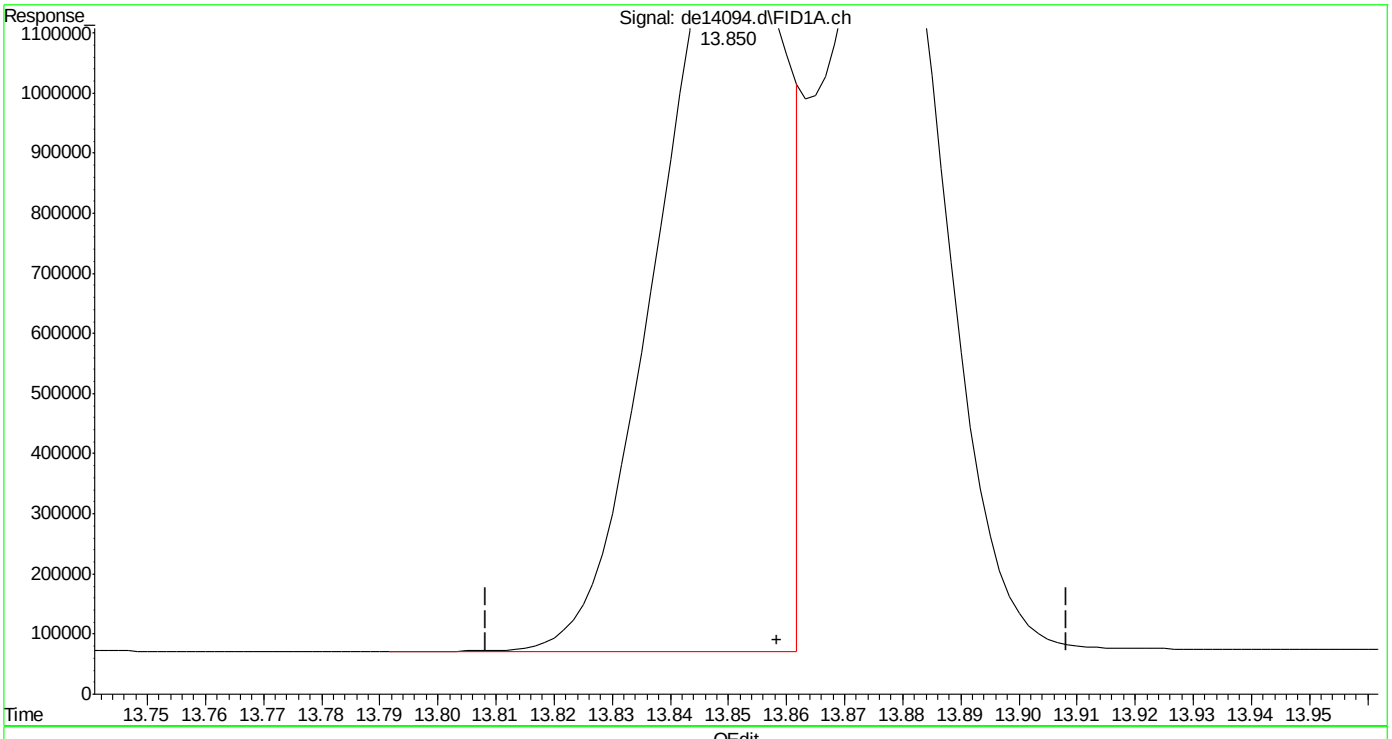
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
13.850min 18.924 µg/ml
response 1873495

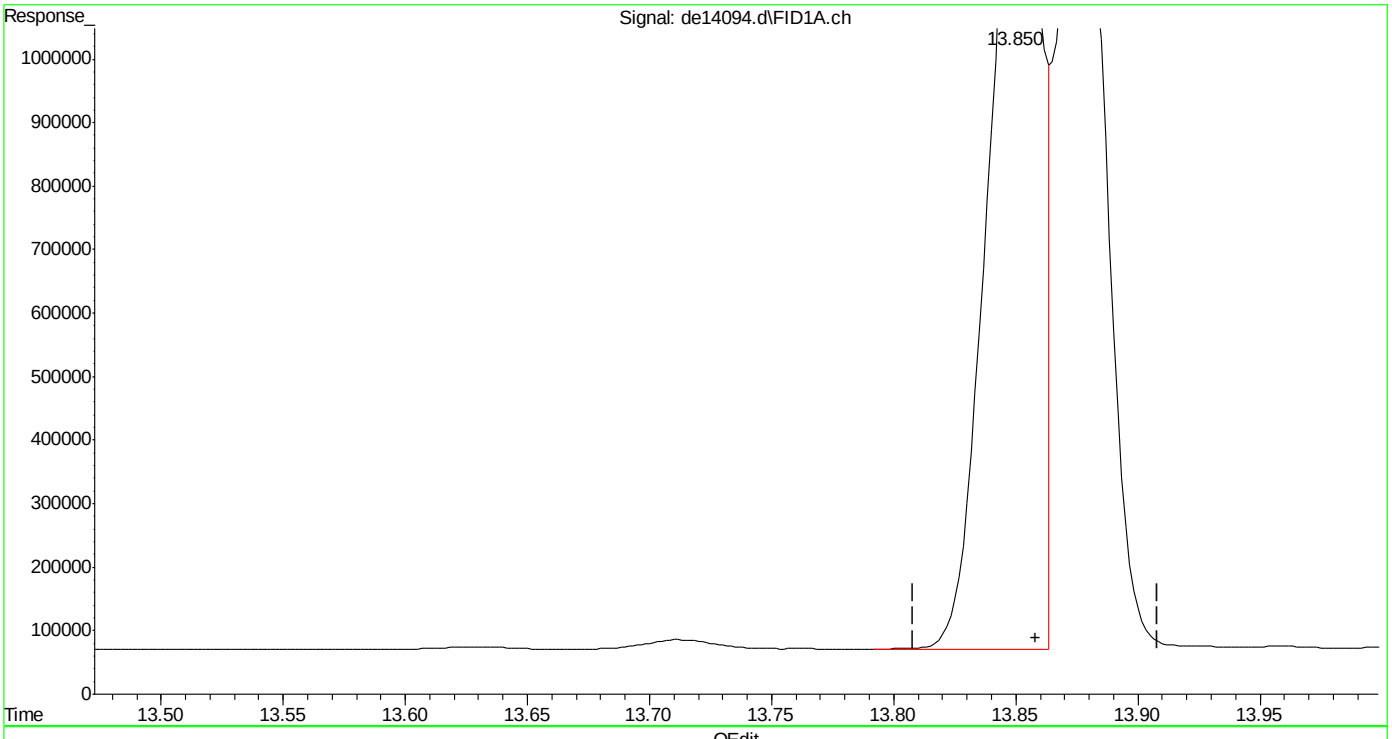
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
13.850min 19.859 µg/ml m
response 1966056

(+) = Expected Retention Time

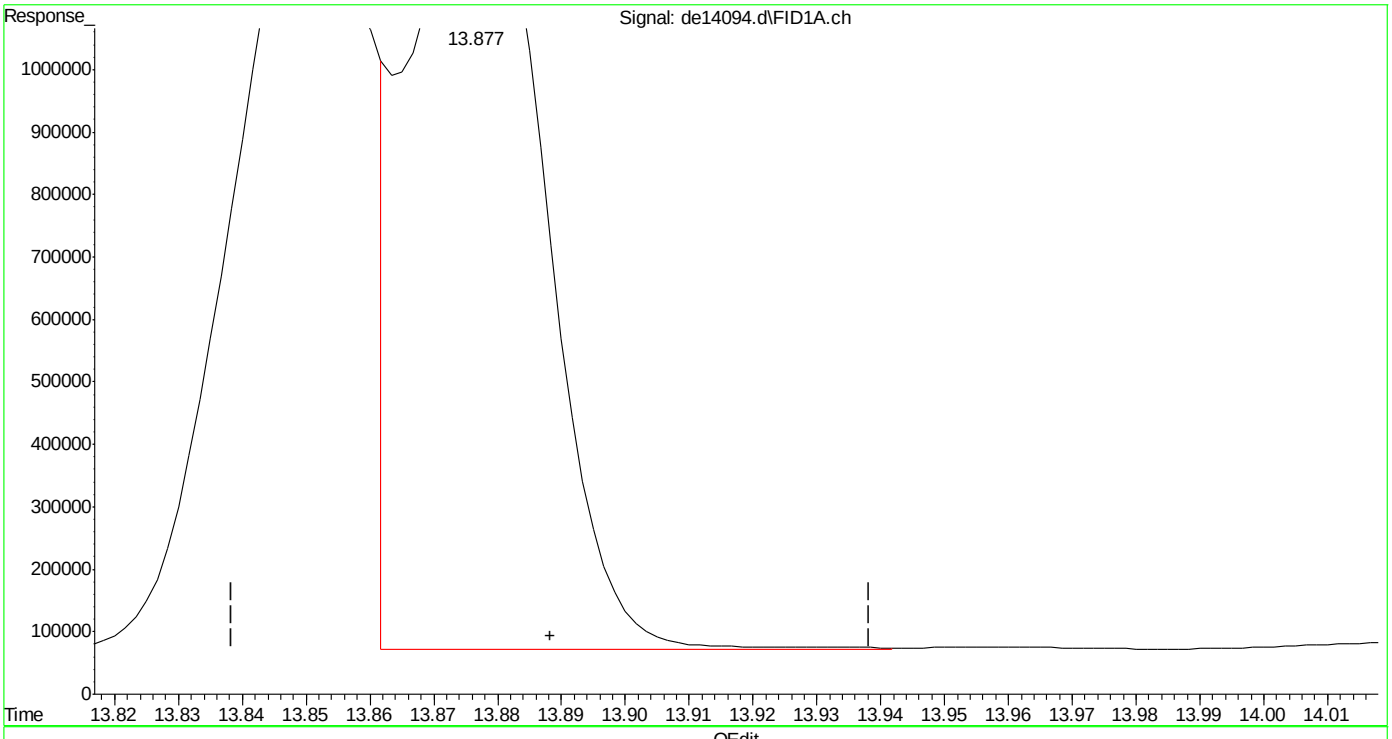
EPH160516W.M Mon May 16 13:09:51 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
13.877min 20.594 µg/ml
response 1946180

(+) = Expected Retention Time

EPH160516W.M Mon May 16 13:09:56 2016

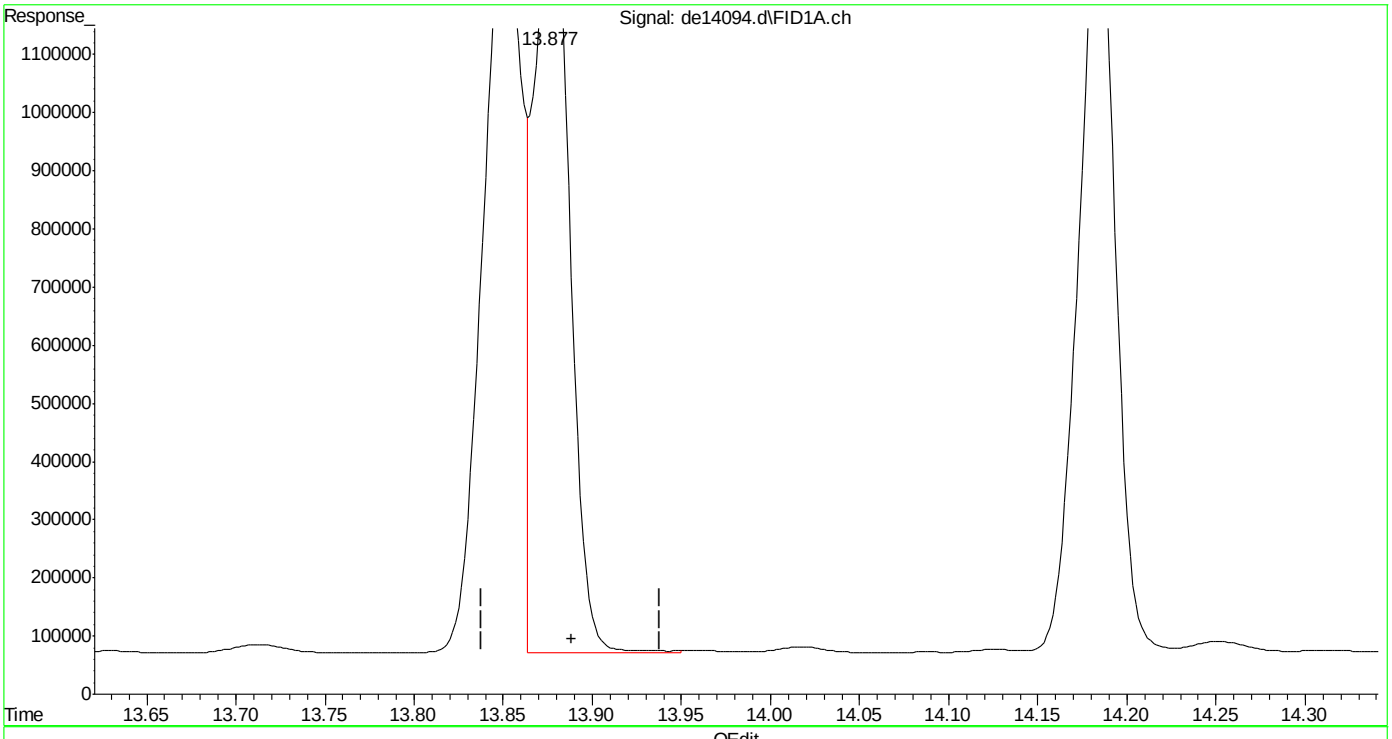
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
13.877min 19.664 µg/ml m
response 1858291

(+) = Expected Retention Time

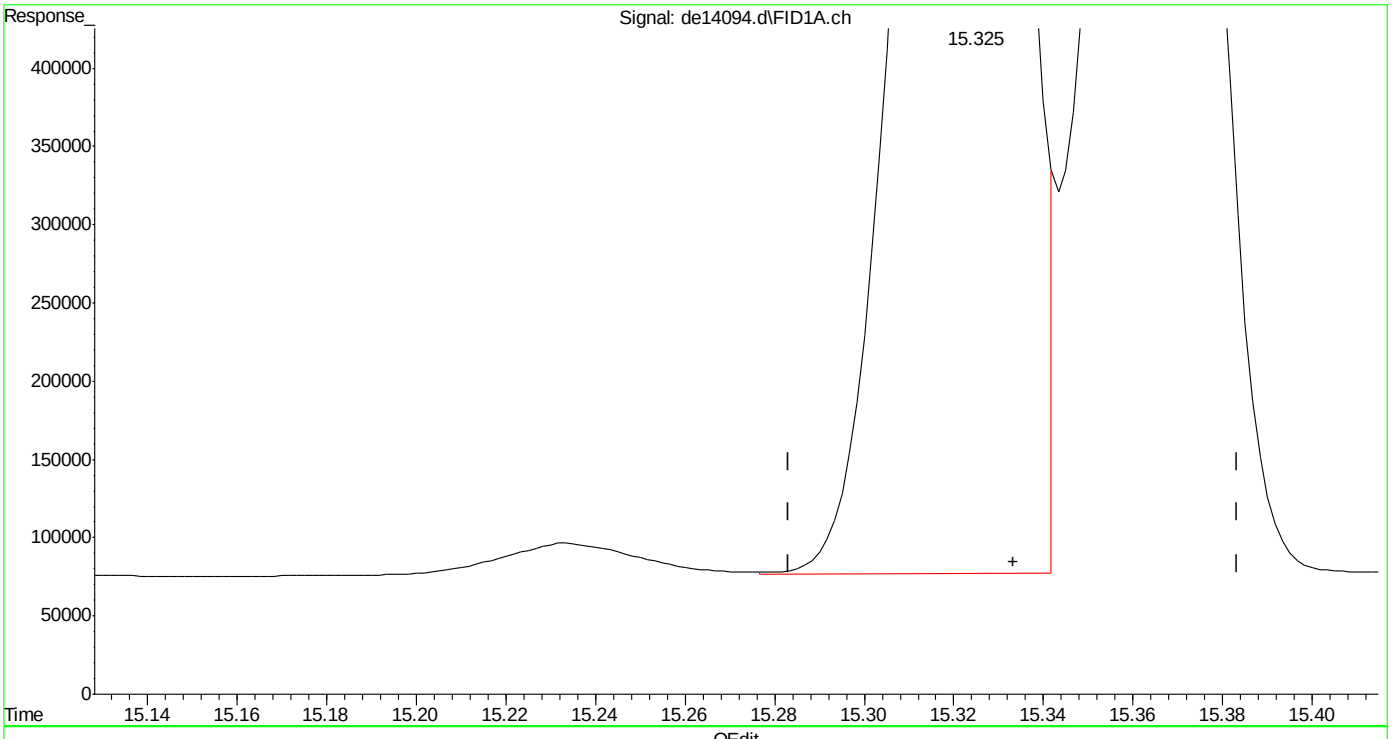
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 16 May 2016  11:08 am
Operator  : thomasa
Sample    : op47424-msd
Misc      : op47424,gde791,11.67,,,2,,s
ALS Vial  : 12   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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

15.325min 19.586 µg/ml

response 1854009

(+) = Expected Retention Time

EPH160516W.M Mon May 16 13:10:19 2016

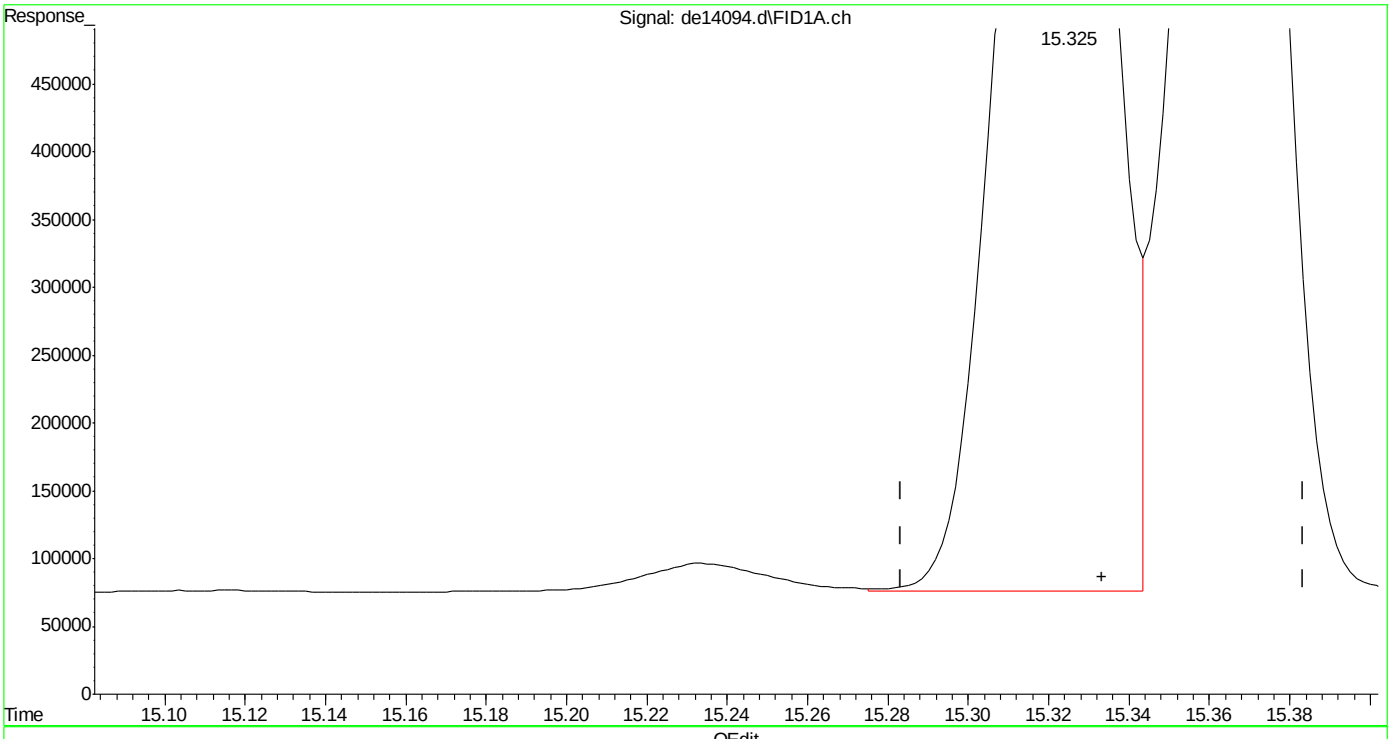
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
15.325min 19.878 µg/ml m
response 1881642

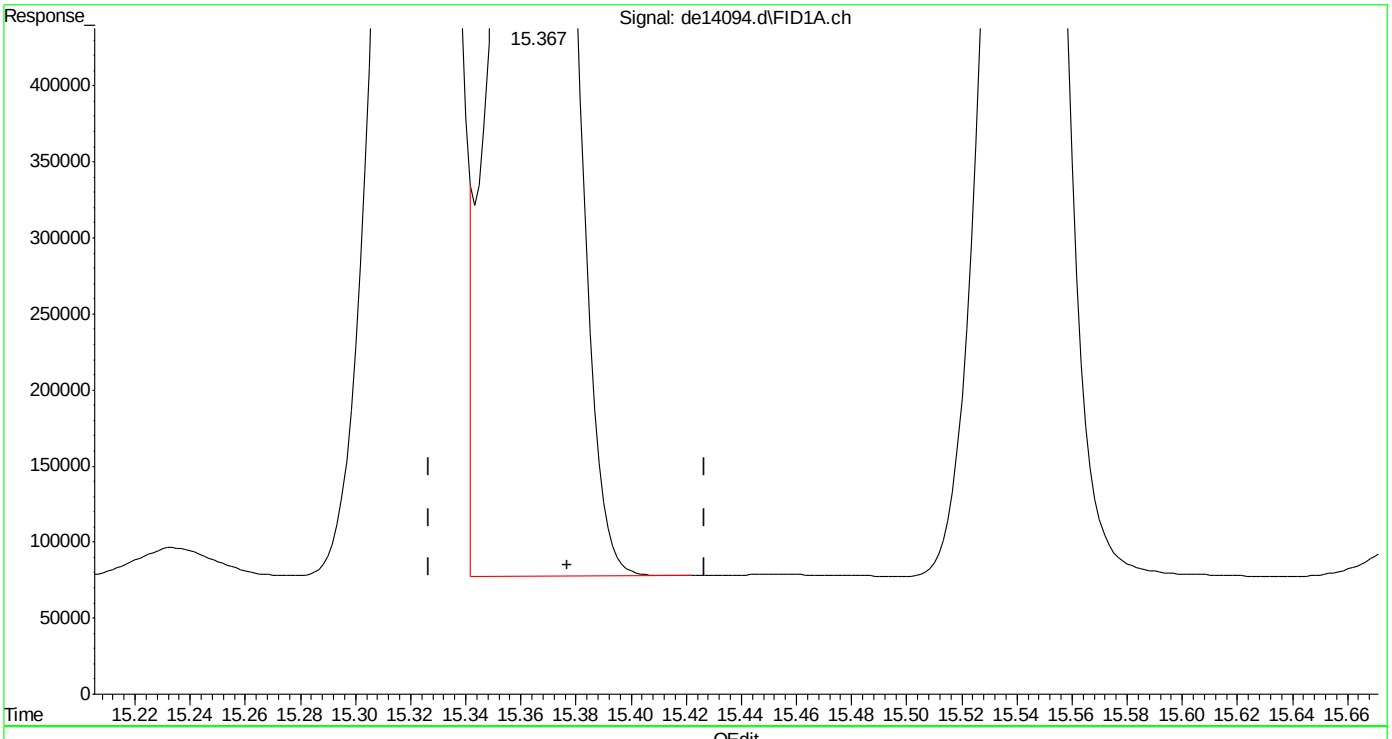
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
15.367min 20.361 µg/ml
response 1860981

(+) = Expected Retention Time
EPH160516W.M Mon May 16 13:10:33 2016

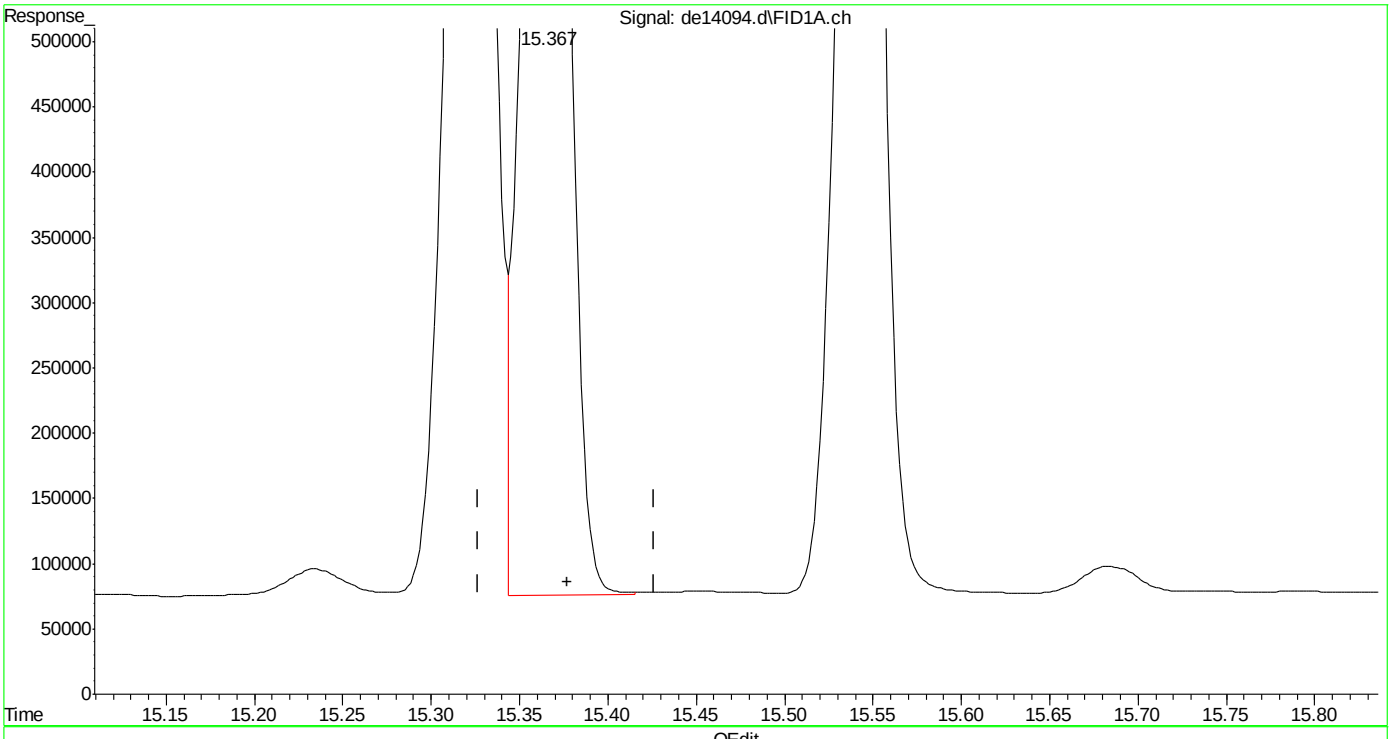
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14094.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 11:08 am
Operator : thomasa
Sample : op47424-msd
Misc : op47424,gde791,11.67,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:09:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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
15.367min 20.169 µg/ml m
response 1843410

(+) = Expected Retention Time
EPH160516W.M Mon May 16 13:11:01 2016

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Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : 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.

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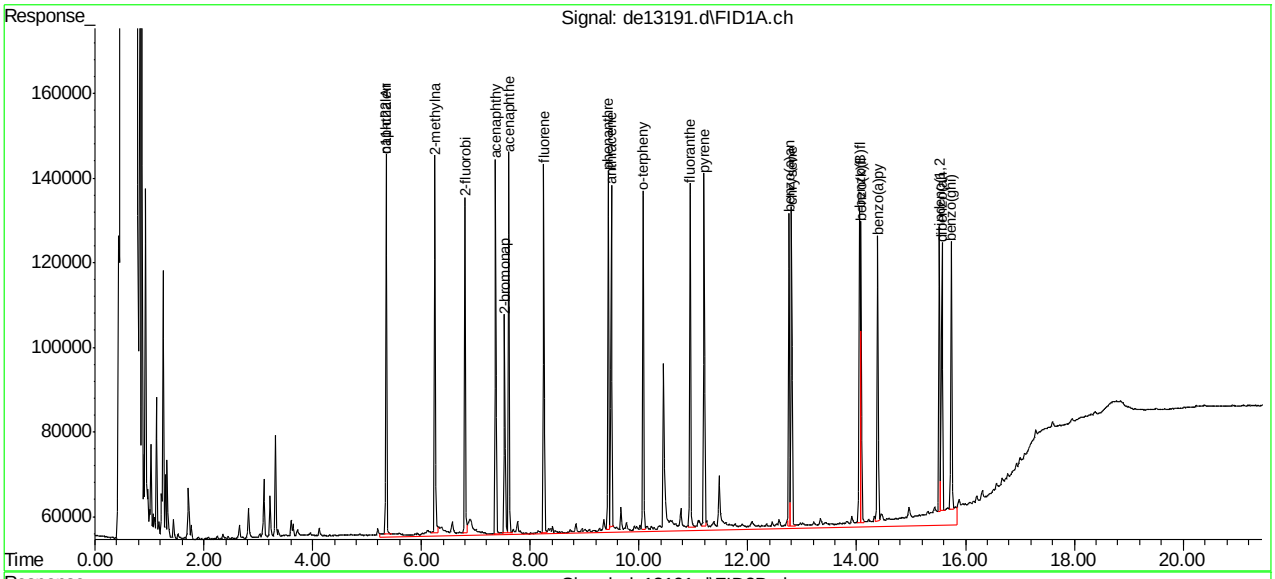
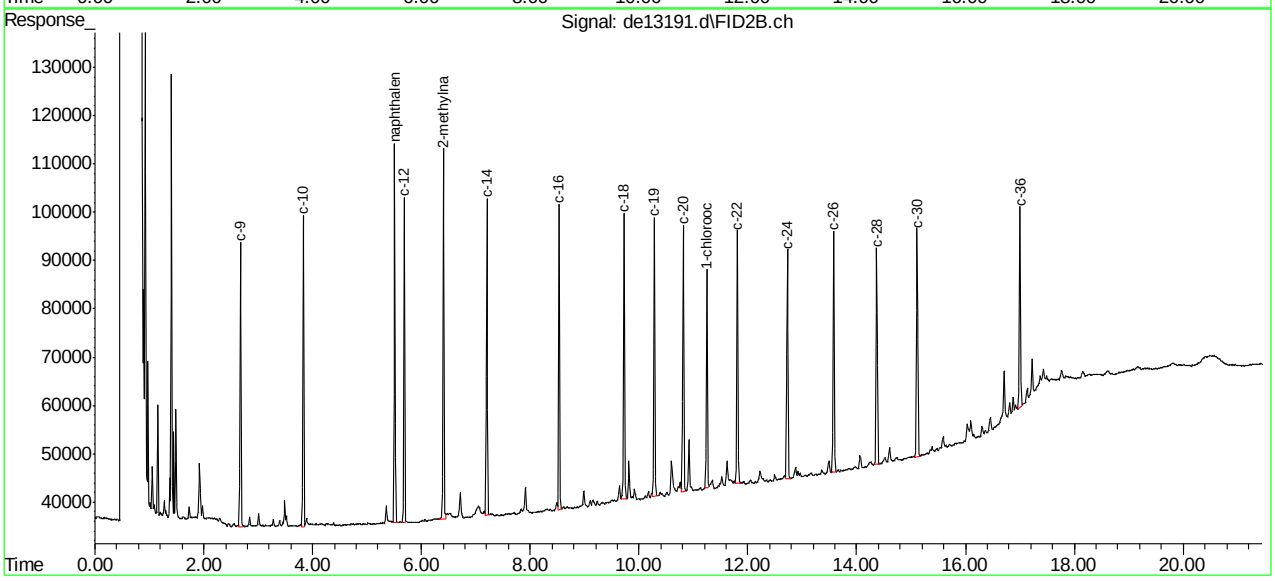
Quantitation Report (QT Reviewed)

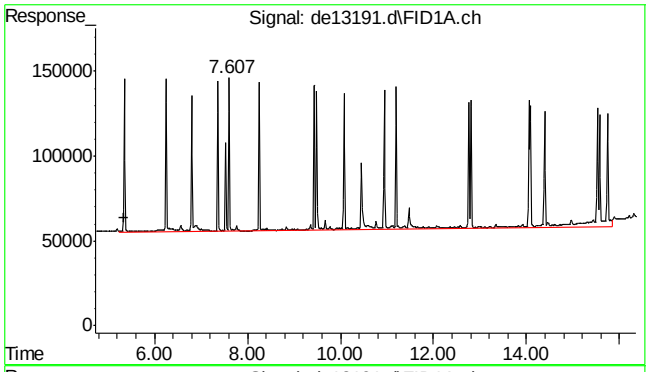
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

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 :

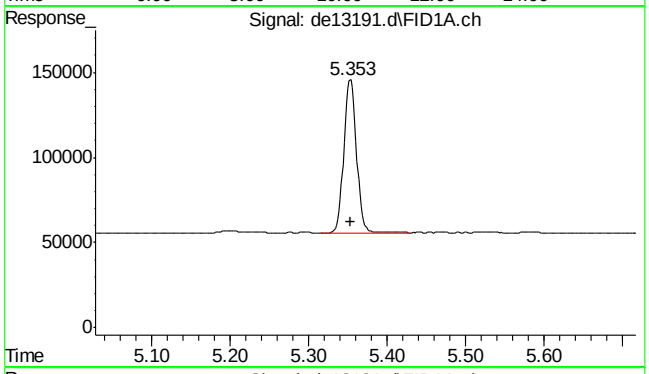






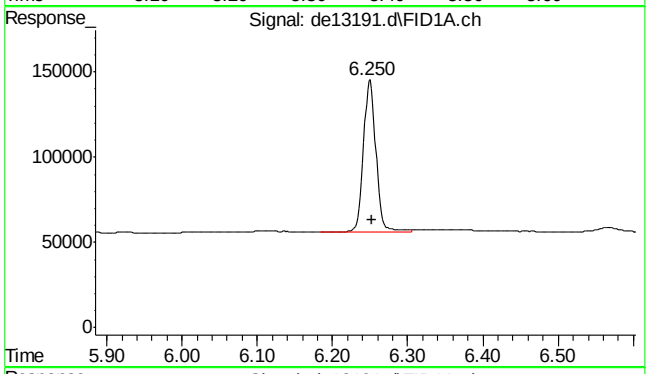
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



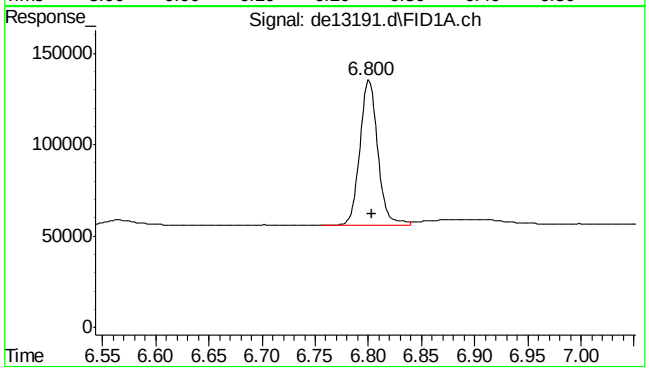
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



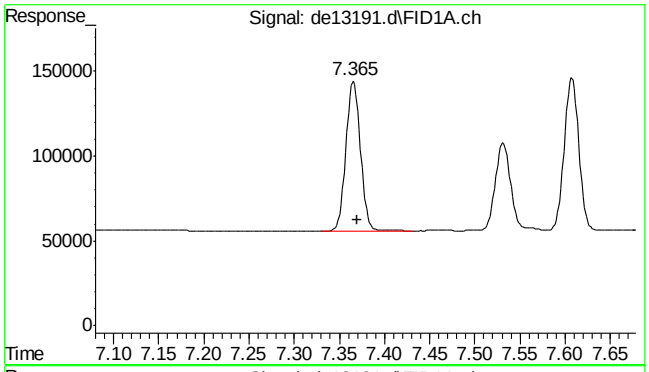
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



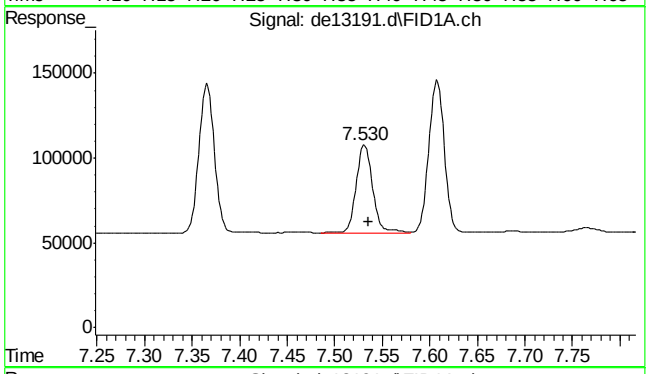
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml



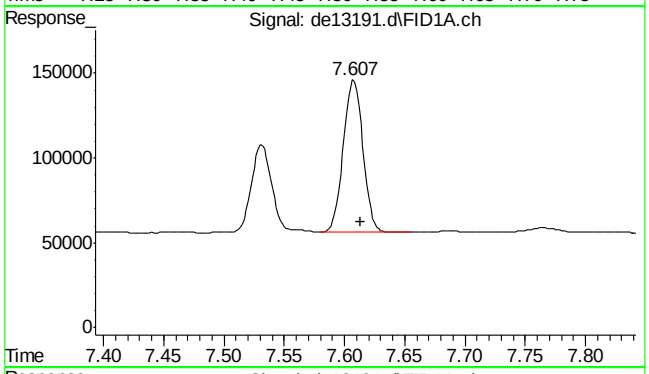
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



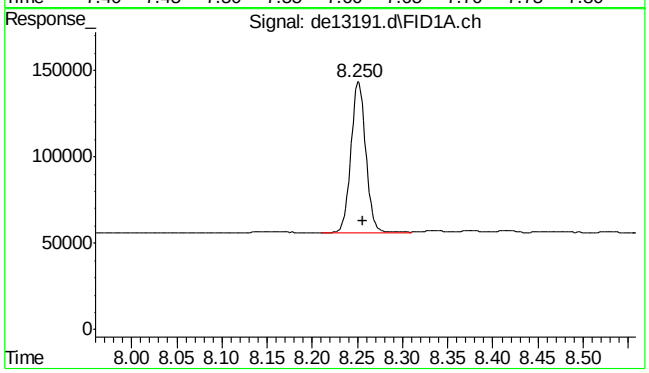
#6 2-bromonaphthalene

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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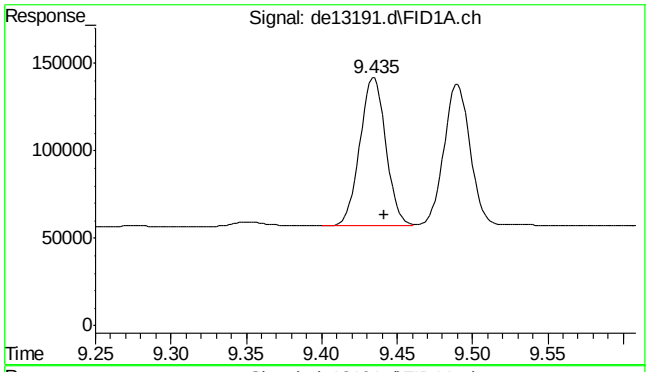
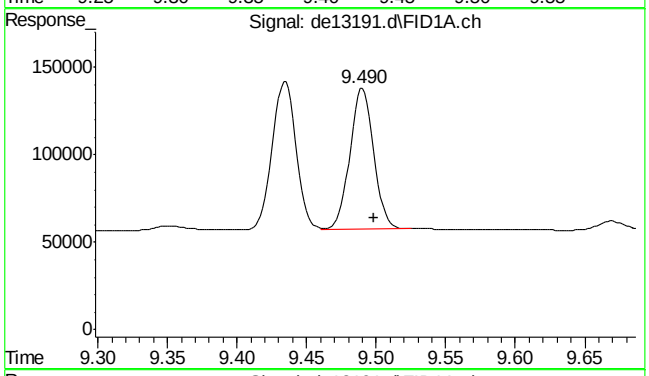


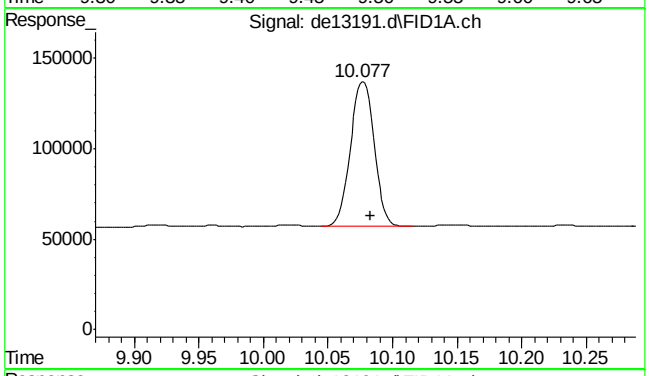
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



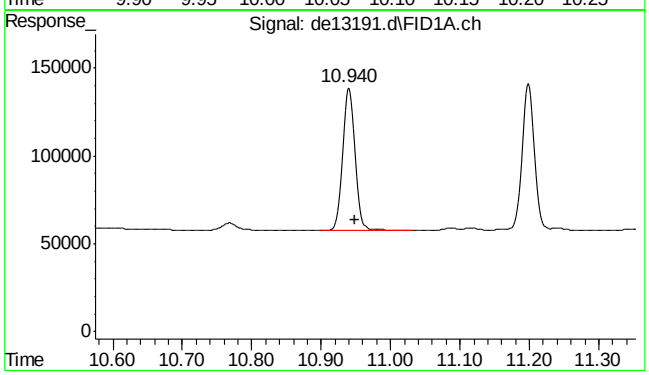
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

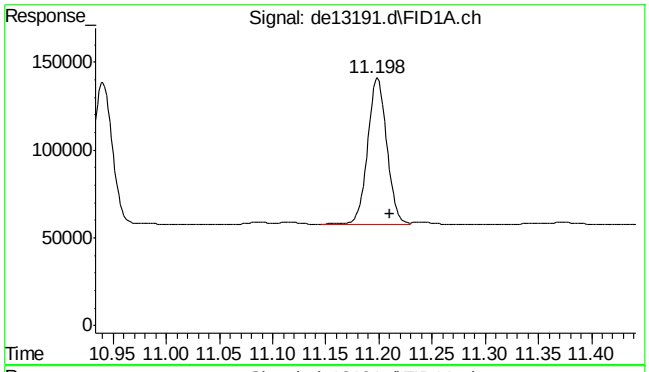
R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



#12 fluoranthene

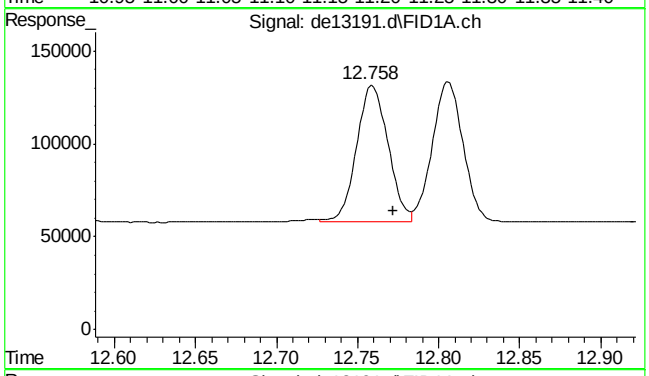
R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

SGS ACCUTEST MC45611



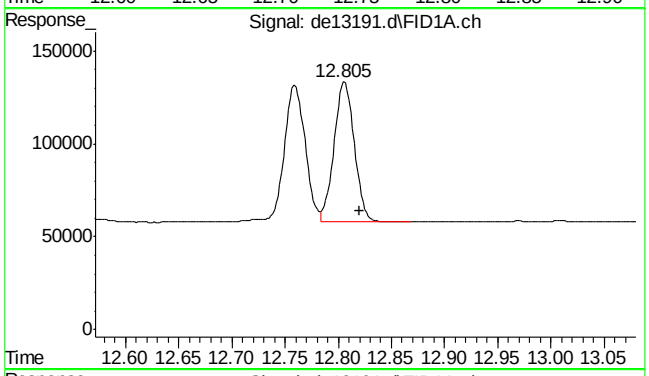
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



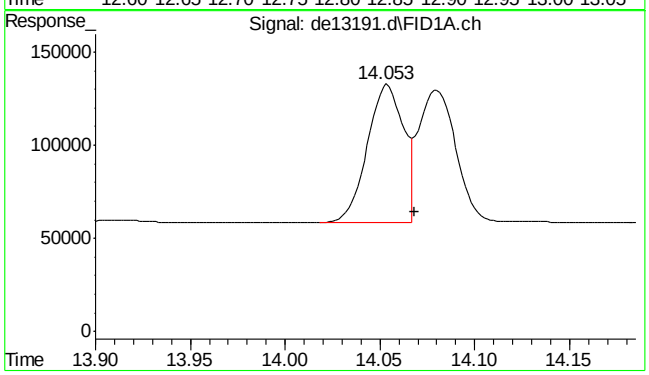
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



#15 chrysene

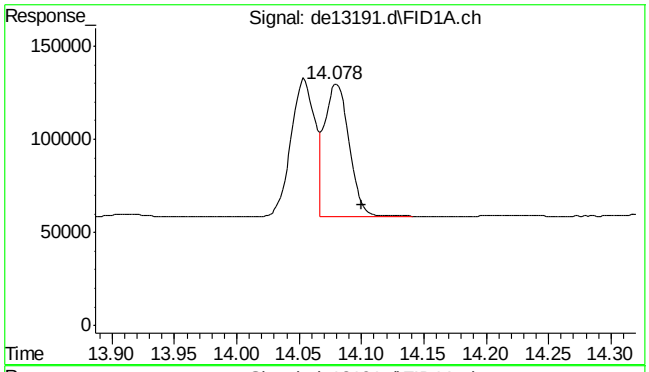
R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



#16 benzo(B)fluoranthene

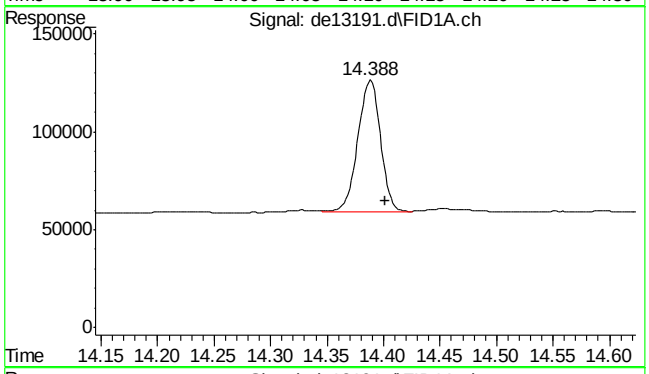
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m

SGS ACCUTEST MC45611



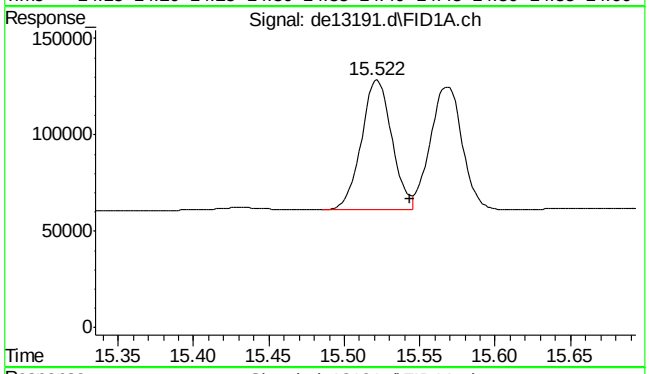
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



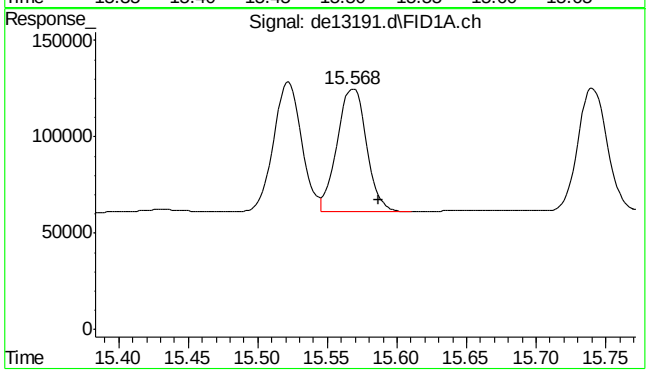
#18 benzo(a)pyrene

R.T.: 14.388 min
Delta R.T.: -0.013 min
Response: 94743
Conc: 0.97 µg/ml



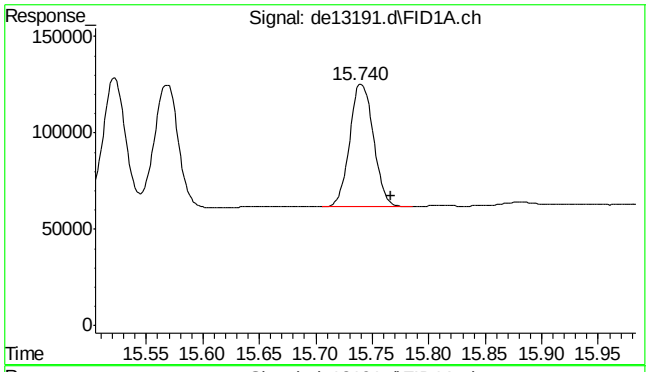
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



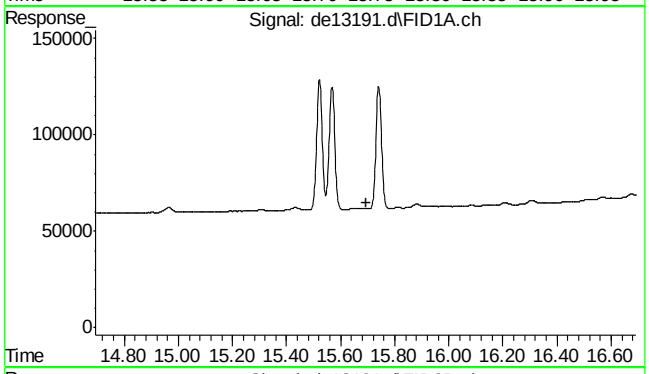
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml



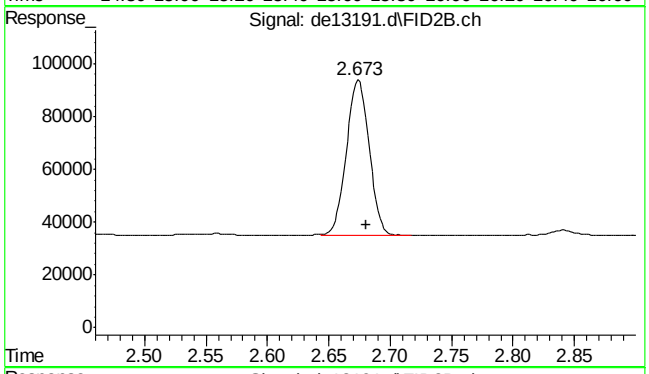
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



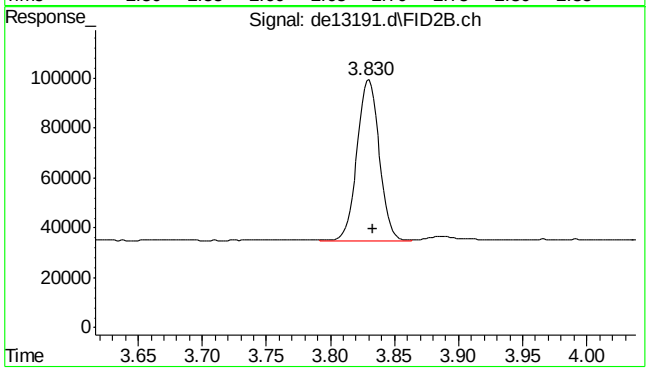
#22 bht

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

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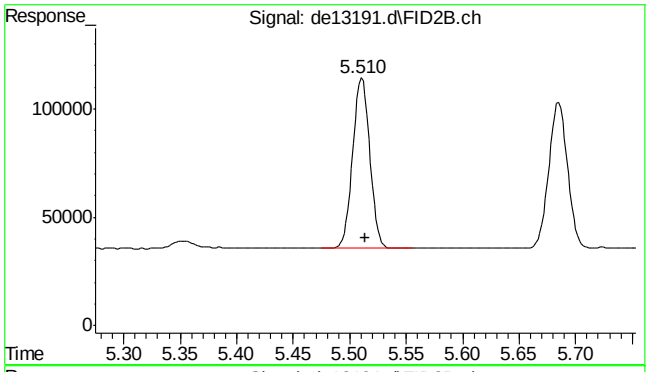
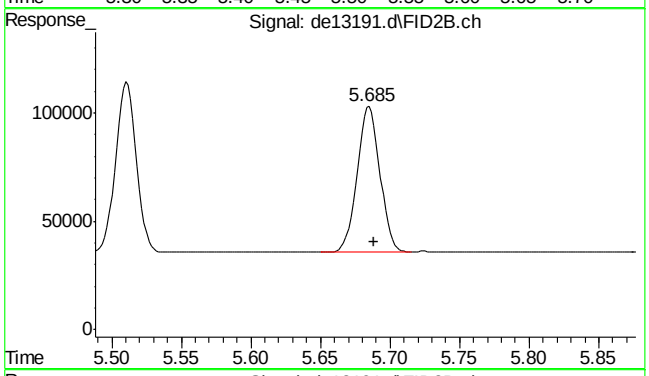


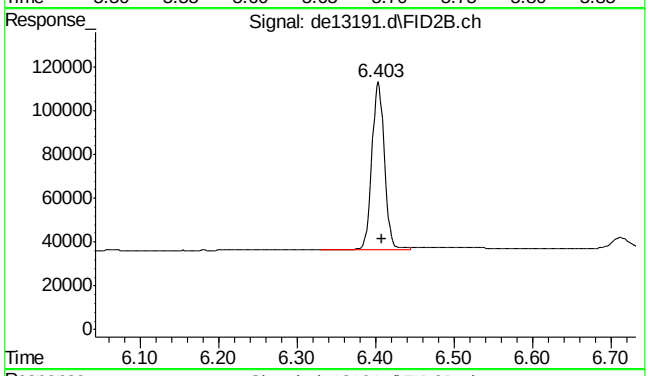
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



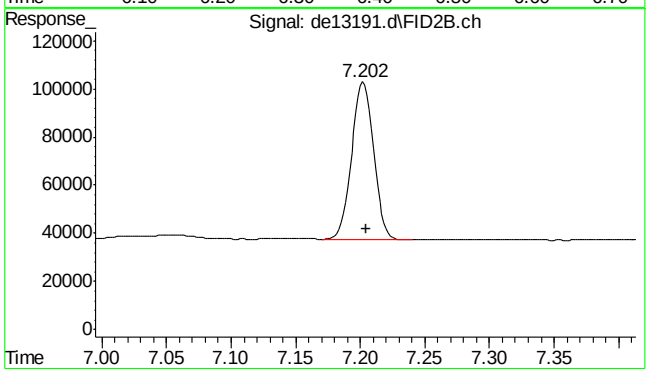
#28 c-12

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



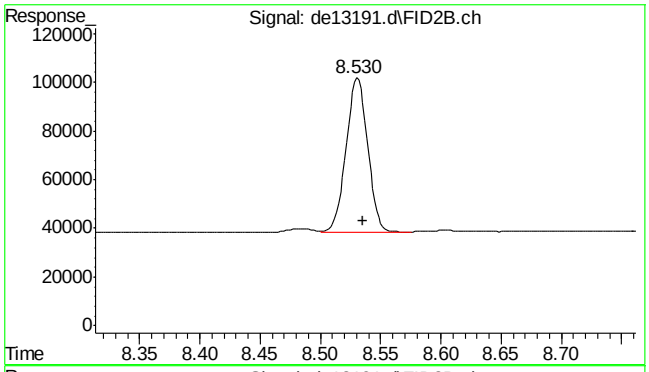
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

9.5.1

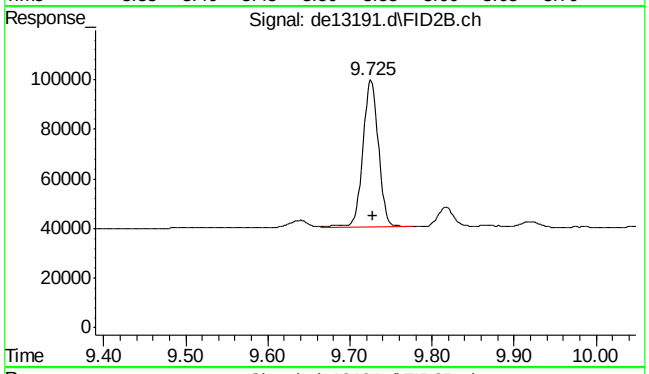
9

SGS ACCUTEST MC45611



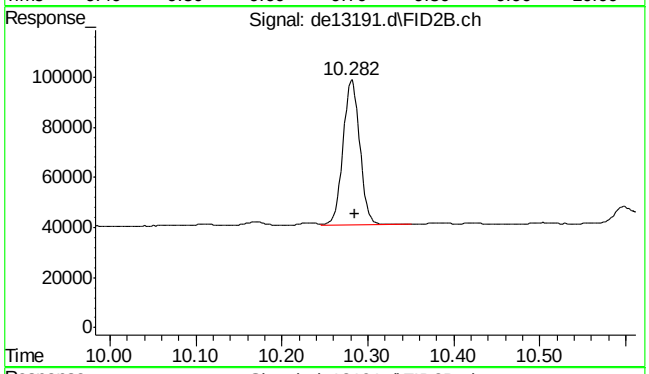
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



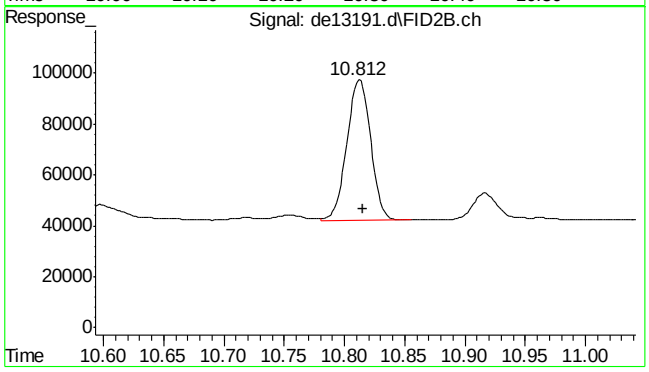
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 77956
Conc: 1.10 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 78108
Conc: 1.16 µg/ml



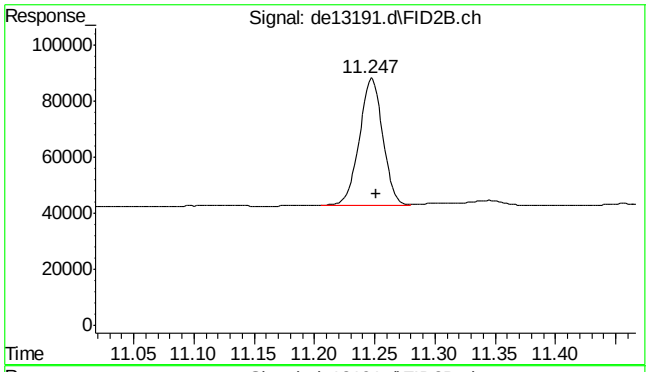
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml

9.5.1

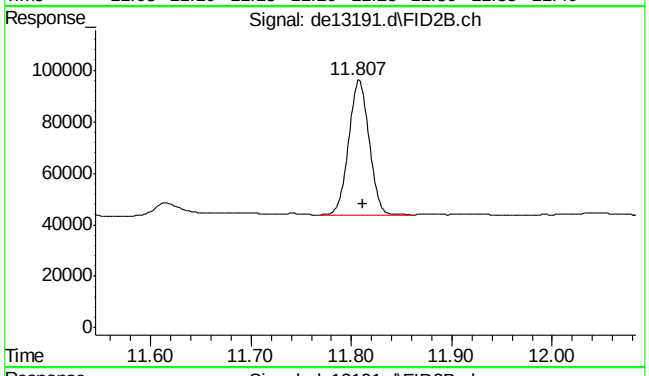
9

SGS ACCUTEST MC45611



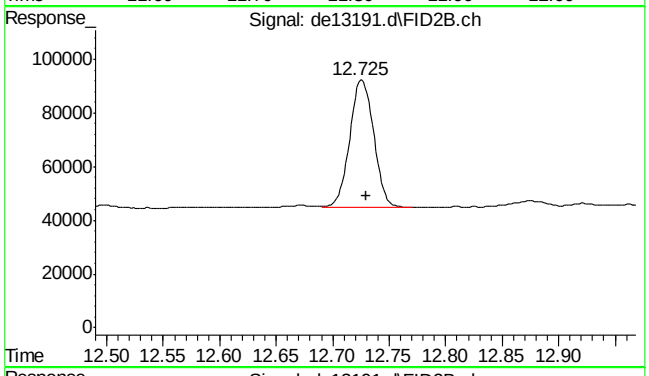
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



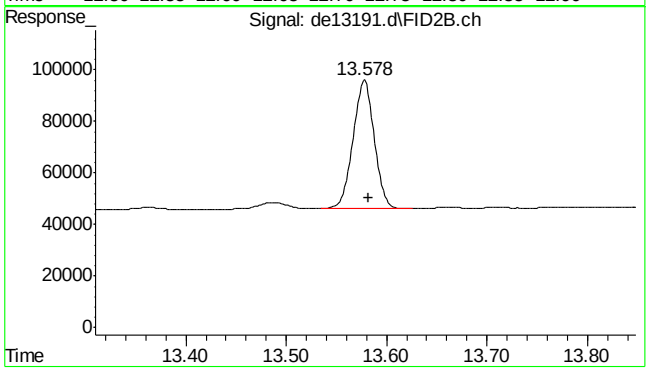
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



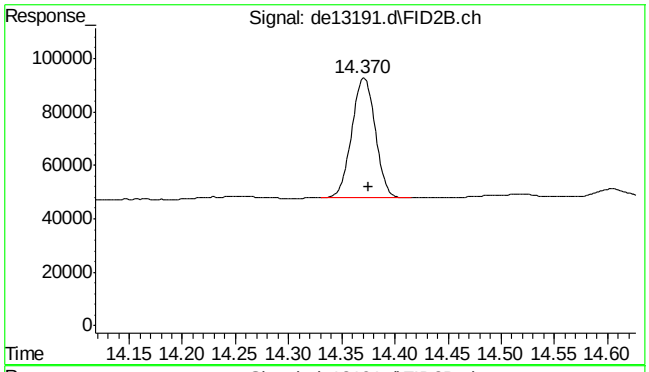
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

9.5.1

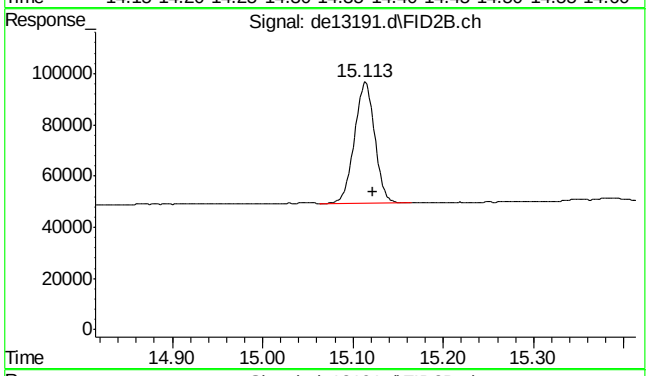
9

SGS ACCUTEST MC45611



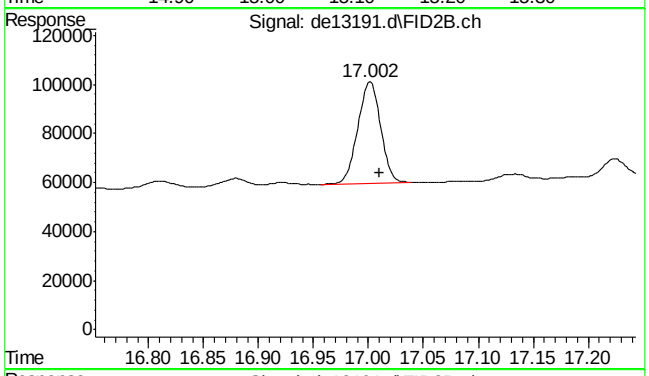
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



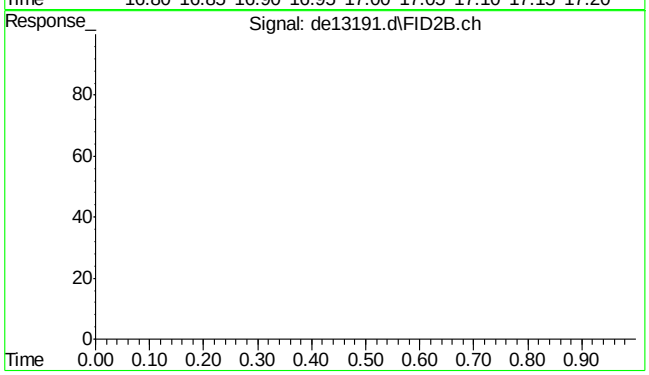
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 74594
Conc: 1.14 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 60516
Conc: 0.97 µg/ml m



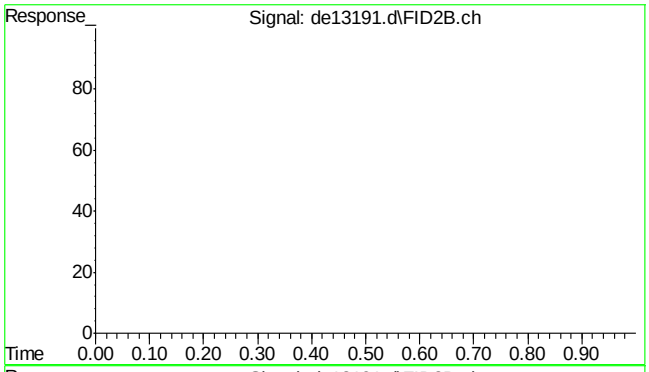
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.1

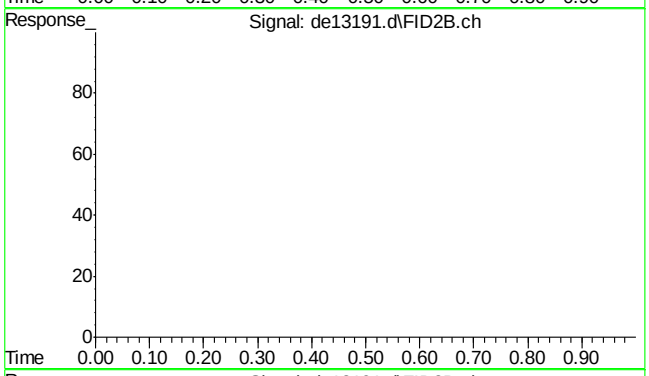
9

SGS ACCUTEST MC45611



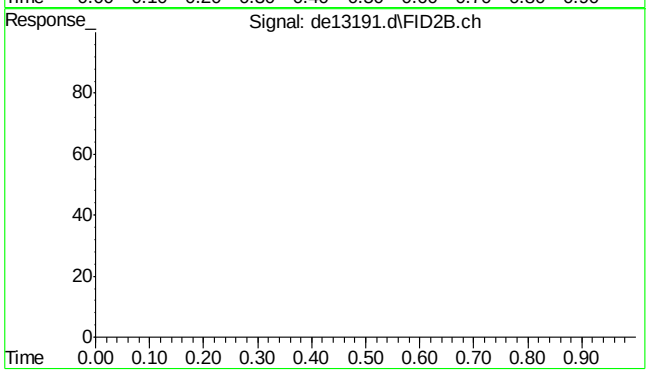
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

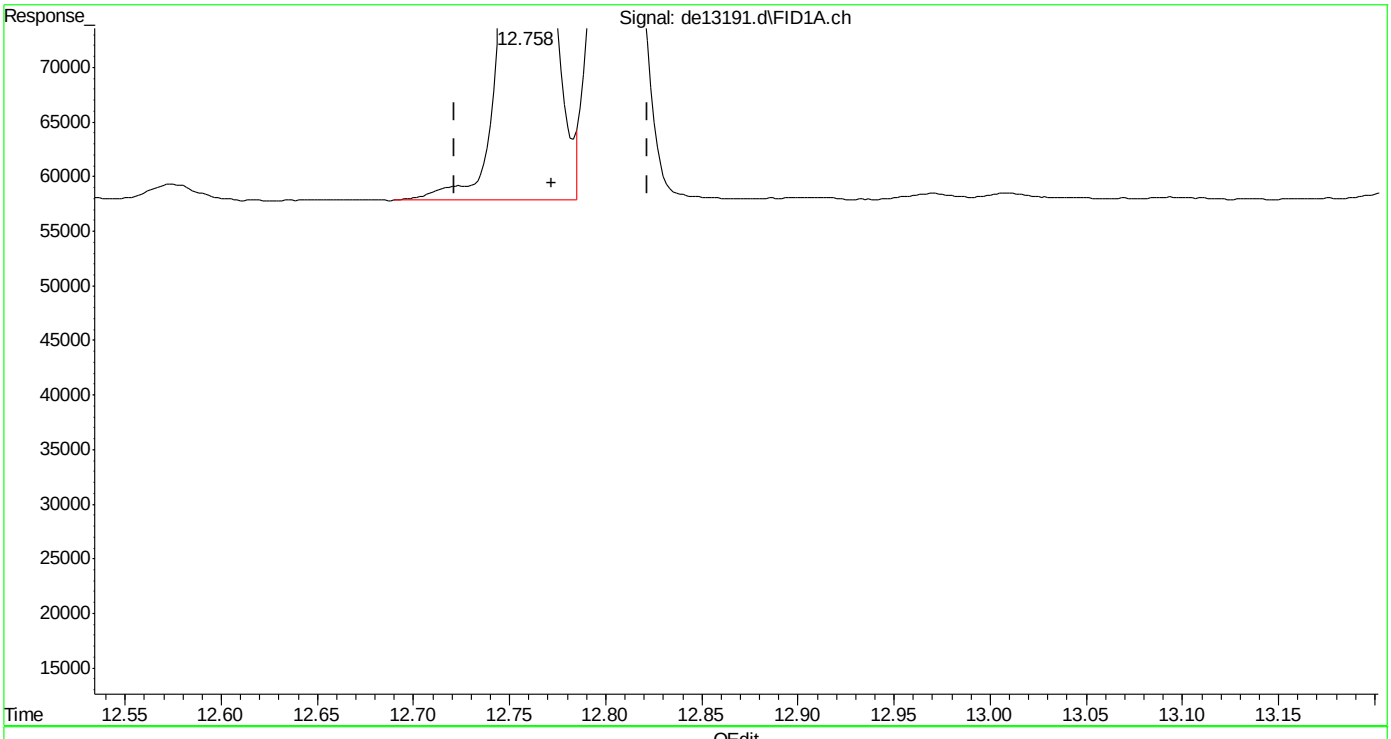
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.758min 1.044 µg/ml
response 102644

(+) = Expected Retention Time

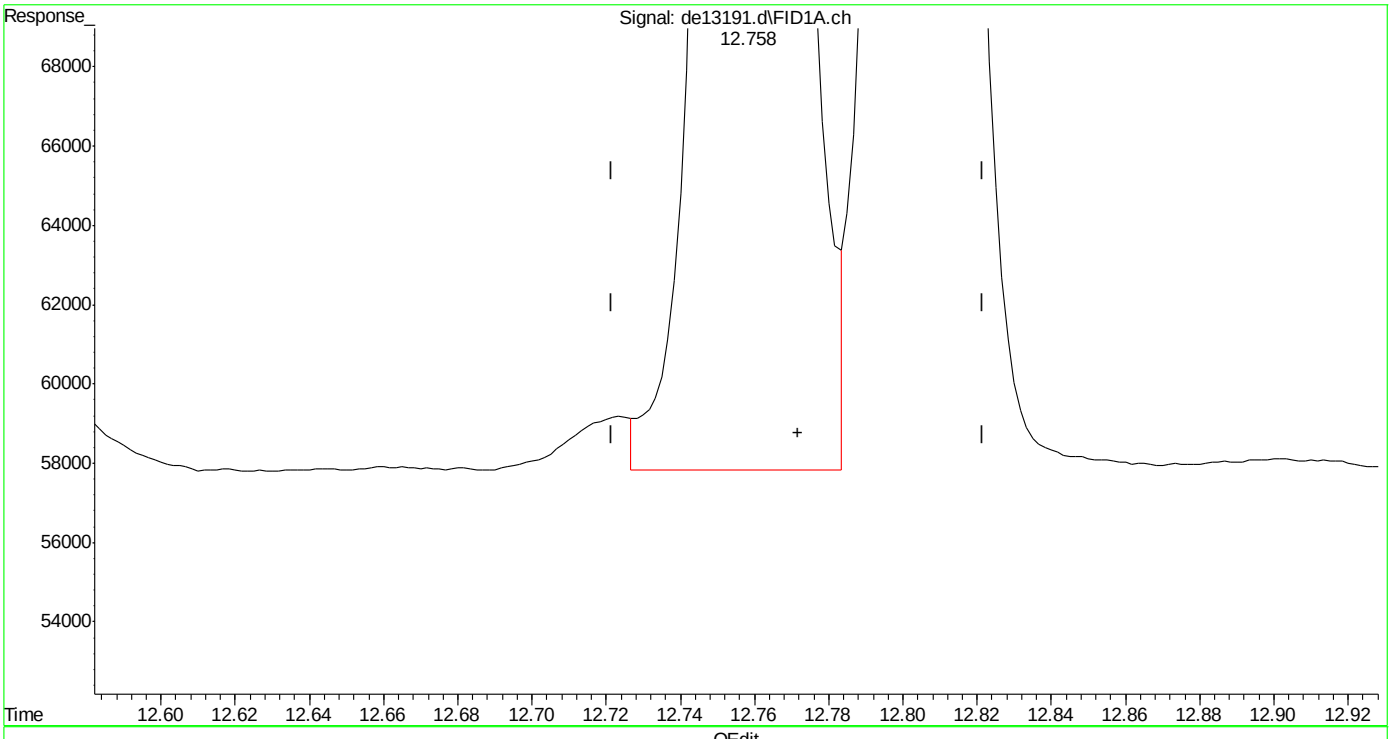
SGS ACCUTEST MC45611

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 Page: 1

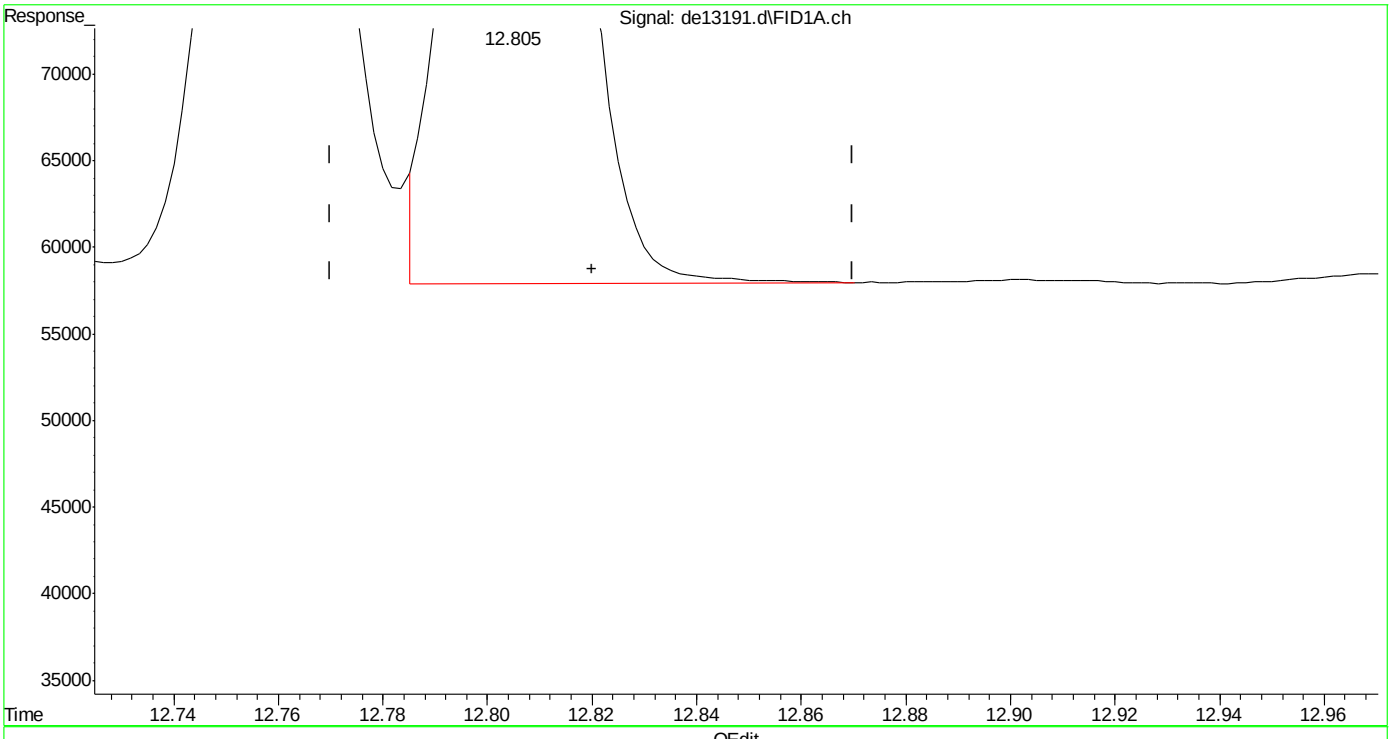
SGS ACCUTEST MC45611

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

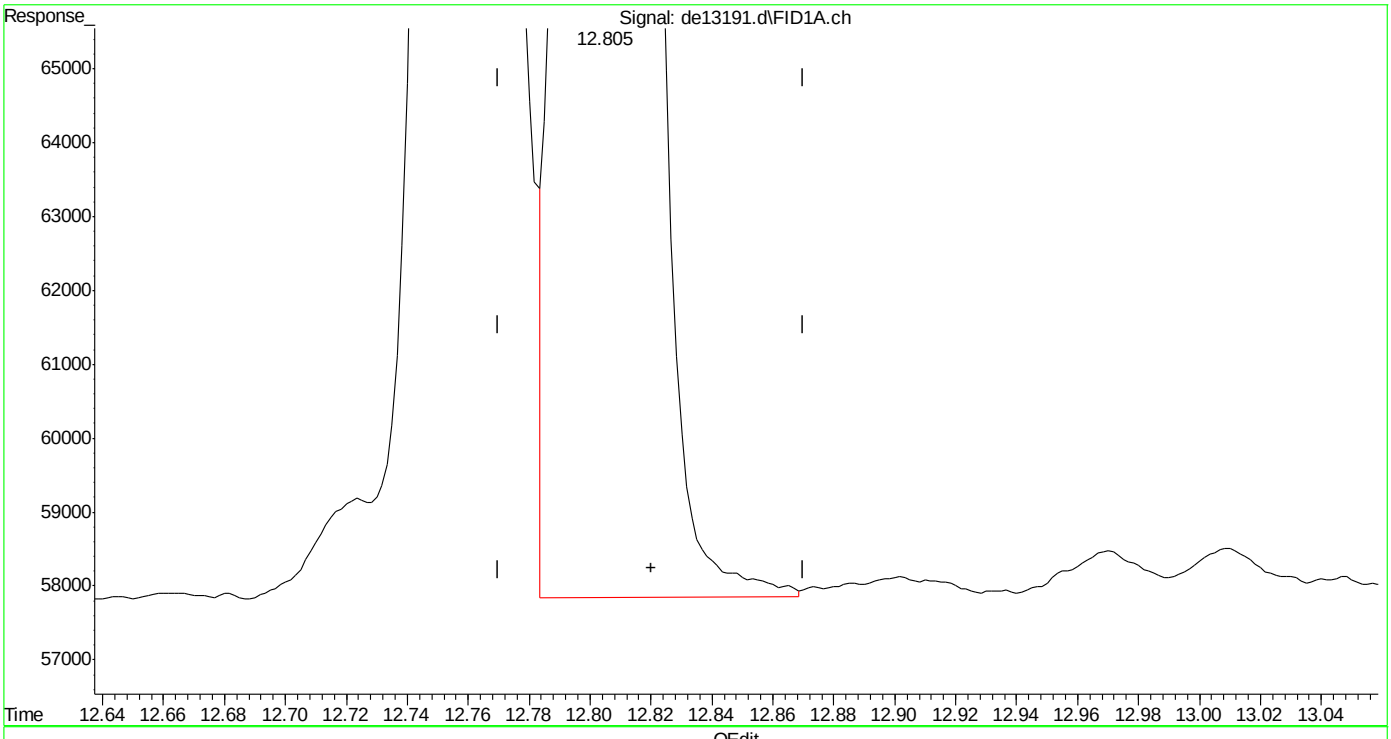
SGS ACCUTEST MC45611

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

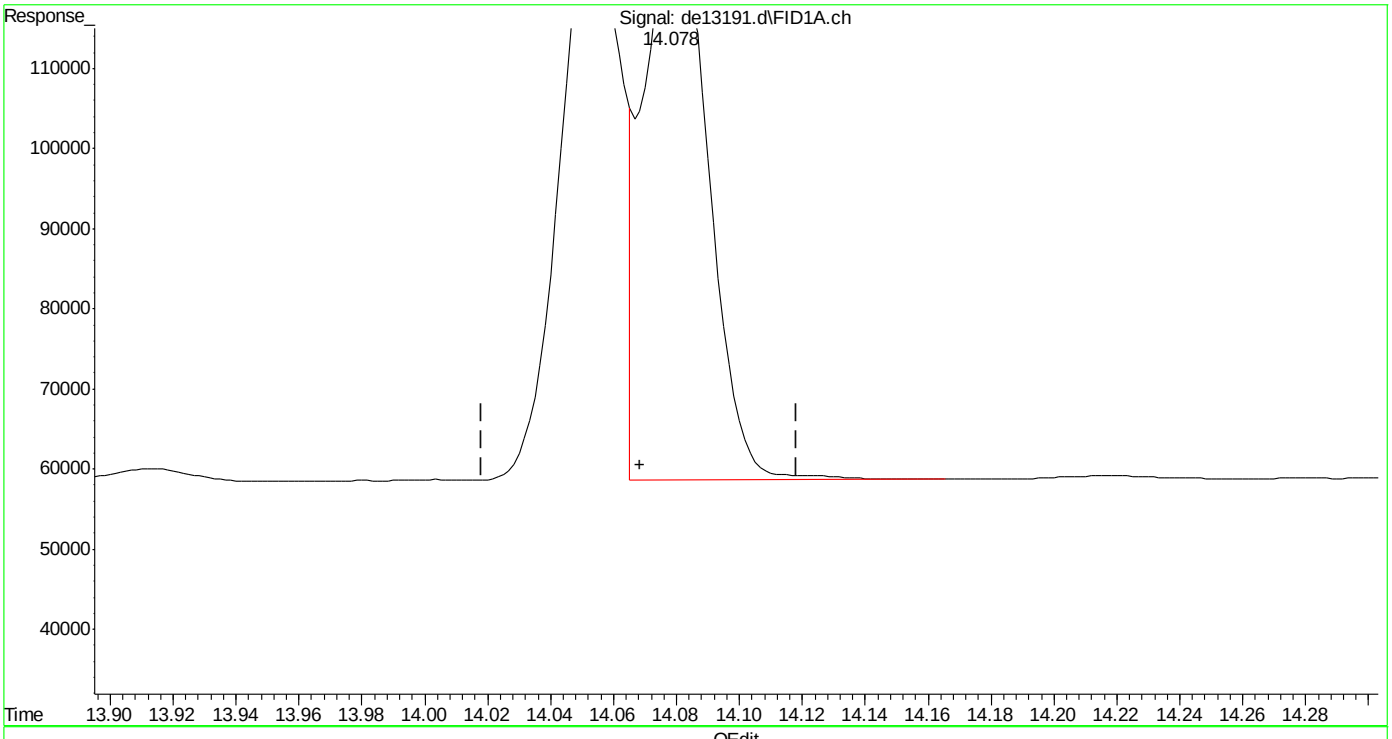
(+) = Expected Retention Time

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

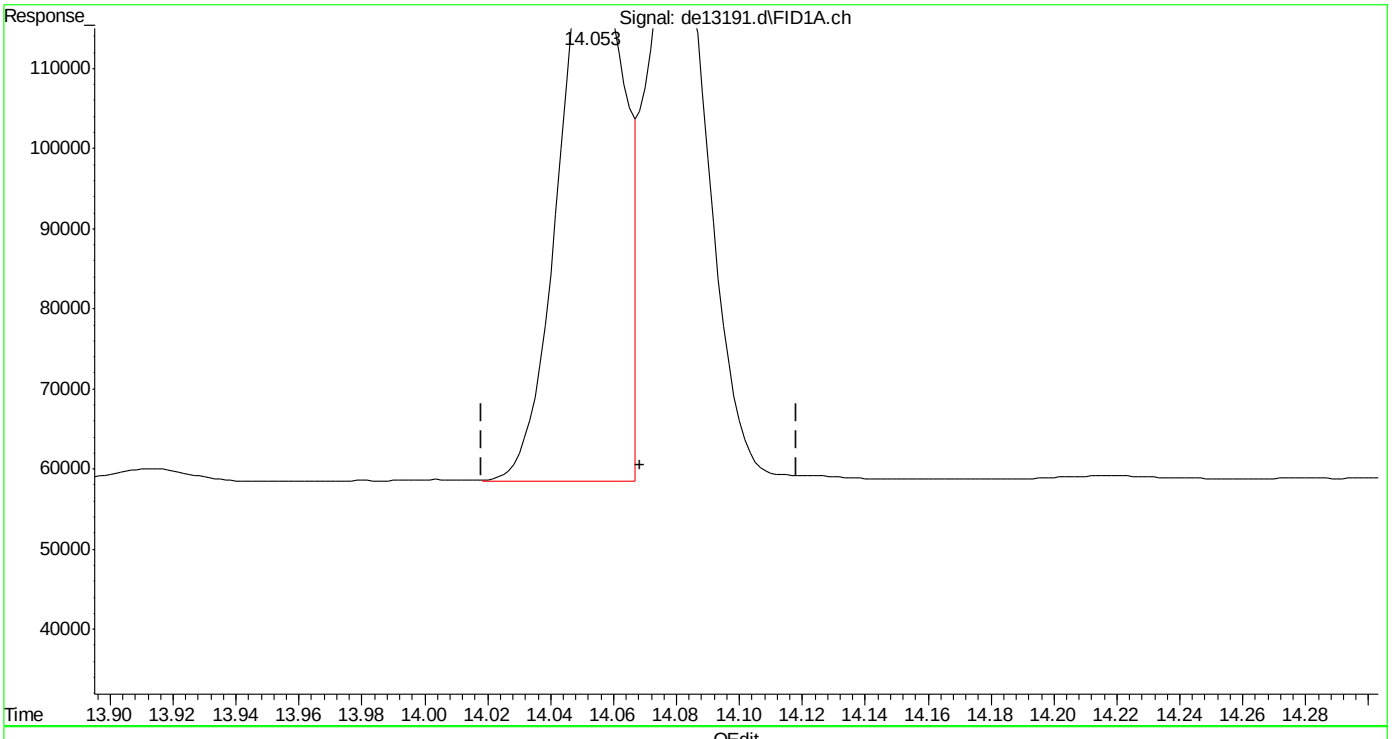
(+) = Expected Retention Time

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

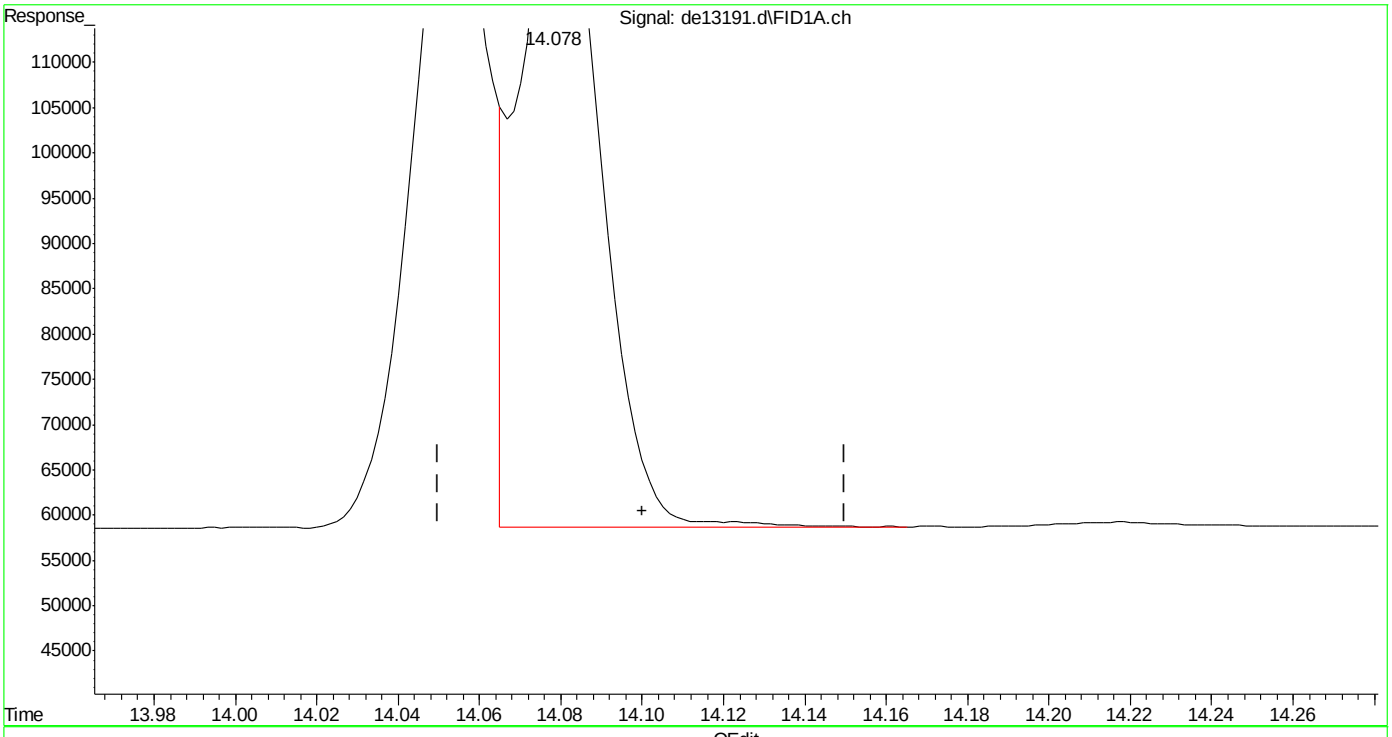
(+) = Expected Retention Time

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

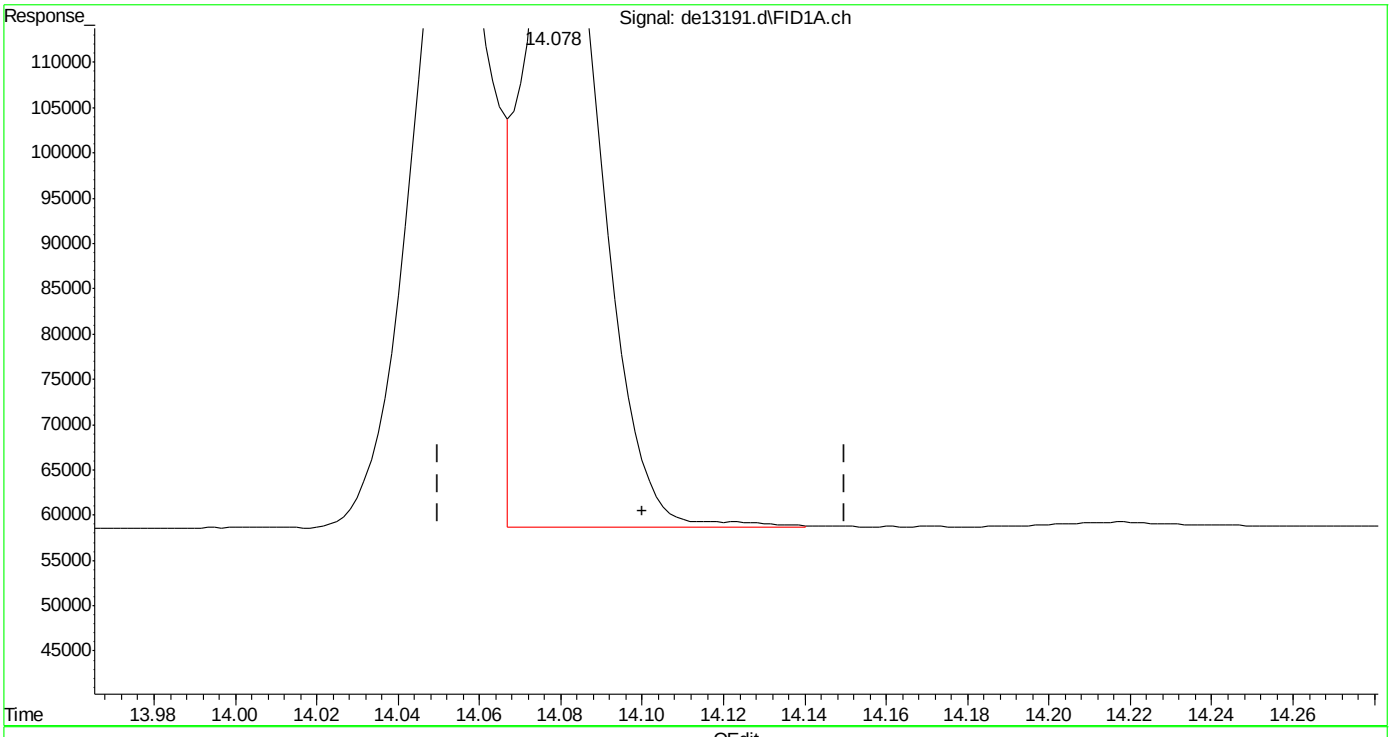
(+) = Expected Retention Time

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

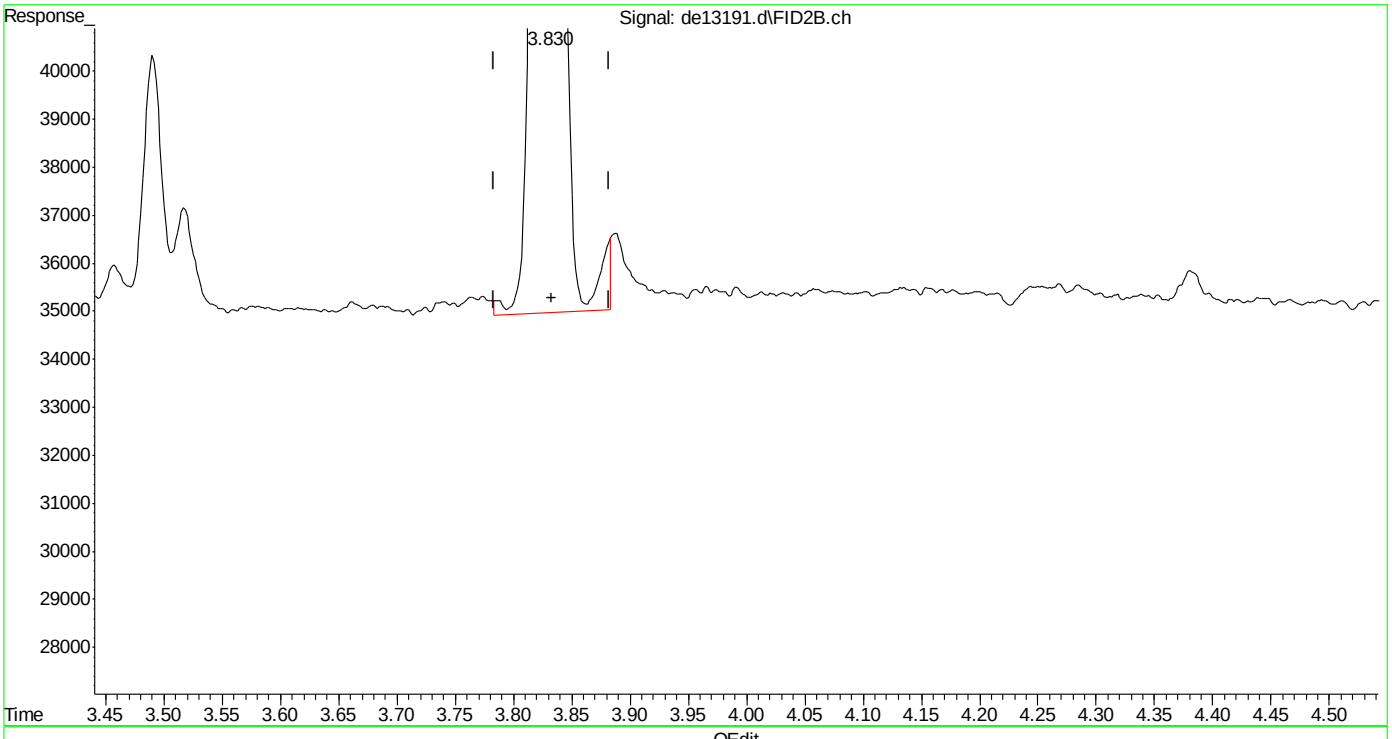
EPH160204M.M Fri Feb 05 10:37:39 2016

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

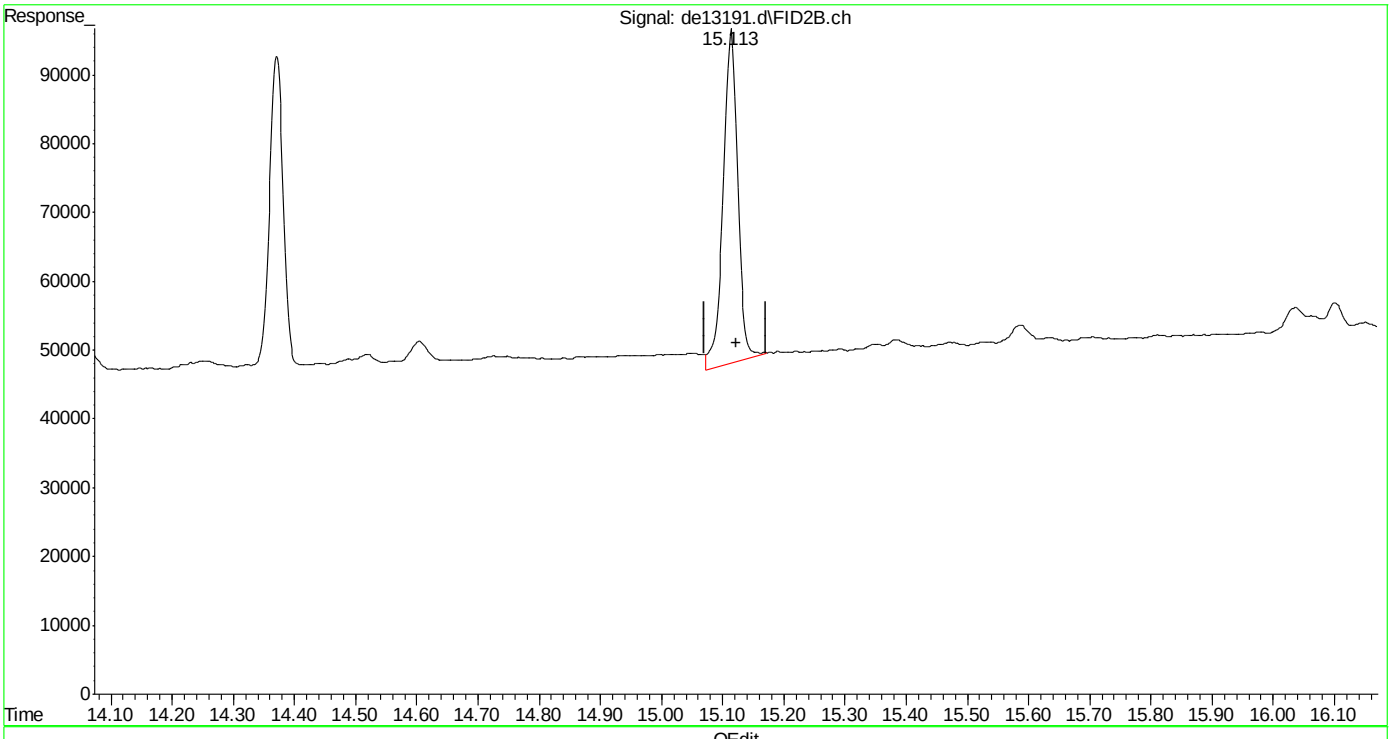
(+) = Expected Retention Time

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

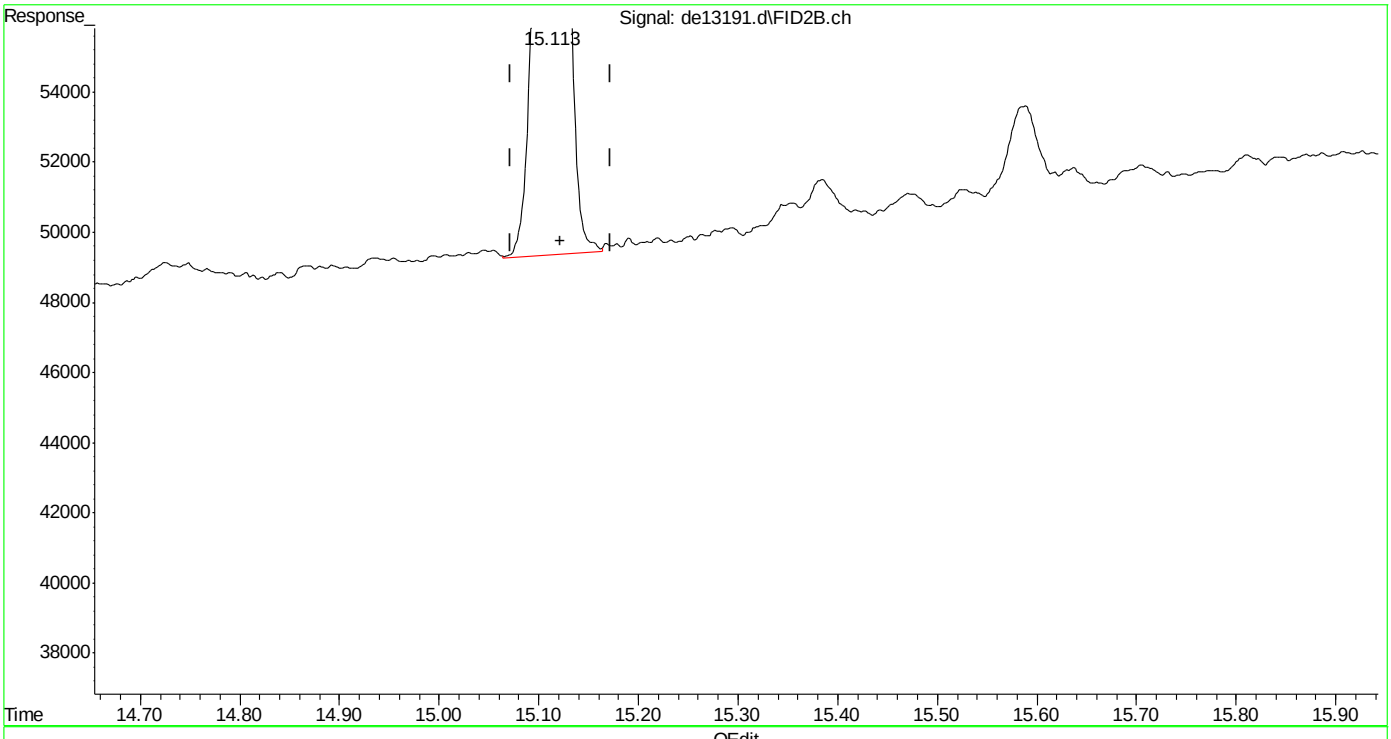
(+) = Expected Retention Time

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
EPH160204M.M Fri Feb 05 10:38:16 2016

SGS ACCUTEST MC45611

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	184769	1.881 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.40%		
6) s 2-bromonaphthalene	7.532	125964	1.890 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.45%		
11) s o-terphenyl	10.077	208029	1.952 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.76%		
35) s 1-chlorooctadecane	11.247	119513	2.175 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 10.87%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3994043	2.778 µg/mlm
2) naphthalene	5.352	205575	1.860 µg/ml
3) 2-methylnaphthalene	6.248	205018	1.875 µg/ml
5) acenaphthylene	7.365	202426	1.881 µg/ml
7) acenaphthene	7.607	207471	1.893 µg/ml
8) fluorene	8.252	204542	1.903 µg/ml
9) phenanthrene	9.433	207031	1.943 µg/ml
10) anthracene	9.492	199105	2.019 µg/ml
12) fluoranthene	10.940	203479	1.960 µg/ml
13) pyrene	11.198	206224	1.967 µg/ml
14) benzo(a)anthracene	12.760	197822	2.010 µg/mlm
15) chrysene	12.807	197927	1.992 µg/mlm
16) benzo(B)fluoranthene	14.053	197572	1.943 µg/mlm
17) benzo(k)fluoranthene	14.082	193855	1.989 µg/mlm
18) benzo(a)pyrene	14.387	184685	1.912 µg/ml
19) indeno(1,2,3-cd)pyrene	15.523	186820	1.909 µg/ml
20) dibenzo(ah)anthracene	15.568	185980	1.983 µg/ml
21) benzo(ghi)perylene	15.742f	184915	1.960 µg/ml
25) h c-9	2.680	157422	2.139 µg/mlm
26) h c-10	3.833	158649	2.139 µg/mlm
27) naphthalene #2	5.510	169071	2.176 µg/ml
28) c-12	5.685	157764	2.137 µg/ml
29) 2-methylnaphthalene #2	6.403	172009	2.148 µg/ml
30) c-14	7.202	157636	2.130 µg/ml
31) c-16	8.530	156773	2.123 µg/ml
32) c-18	9.725	154646	2.108 µg/ml
33) c-19	10.282	151034	2.126 µg/ml
34) c-20	10.812	148378	2.126 µg/ml
36) c-22	11.808	146070	2.124 µg/ml
37) c-24	12.725	135579	2.049 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
38)	c-26	13.577	142920	2.087 µg/ml
39)	c-28	14.370	137233	2.060 µg/ml
40) h	c-30	15.122	139197	2.037 µg/mlm
41) h	c-36	17.010	119416	1.930 µg/mlm

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

9.5.2

9

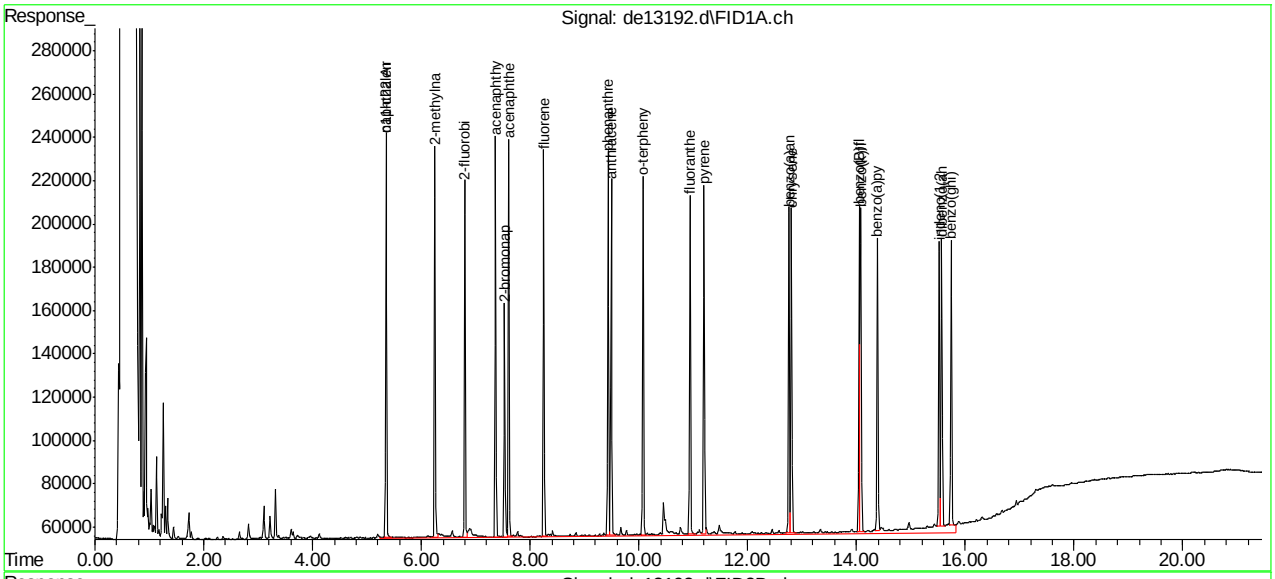
SGS ACCUTEST MC45611

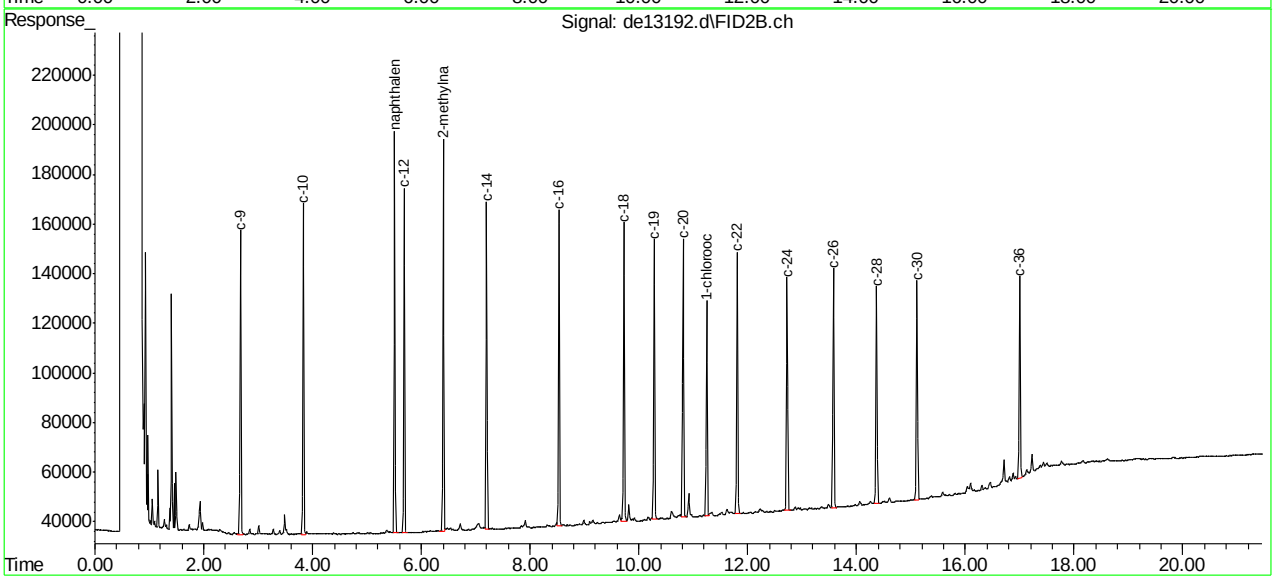
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

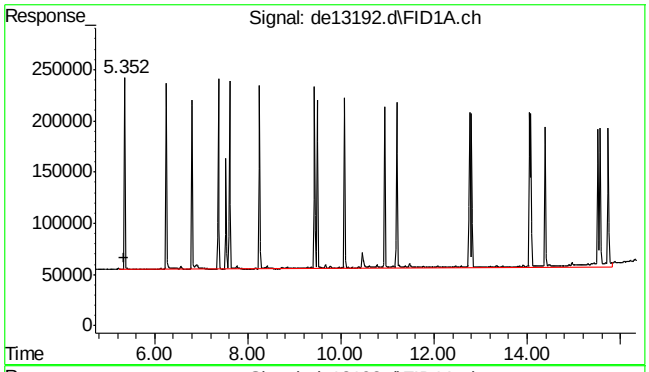
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



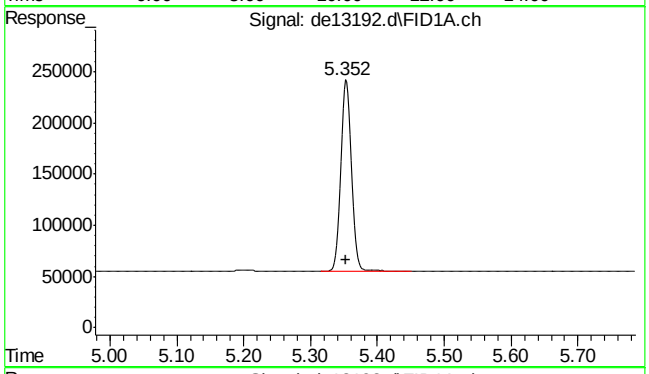


SGS ACCUTEST MC45611



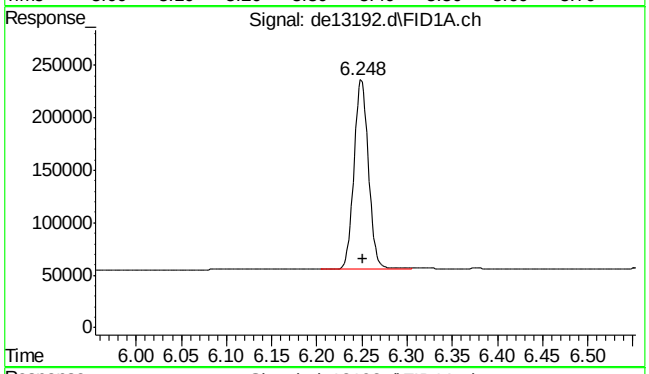
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



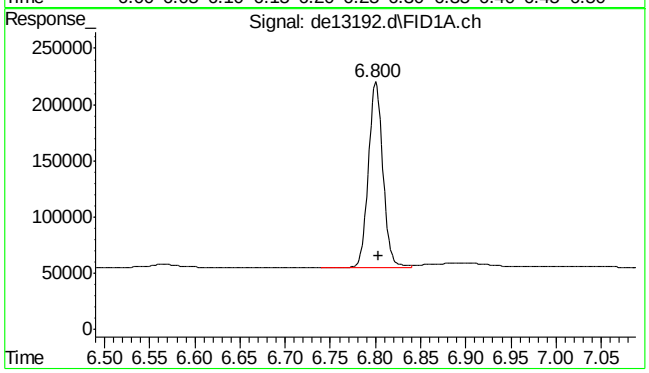
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



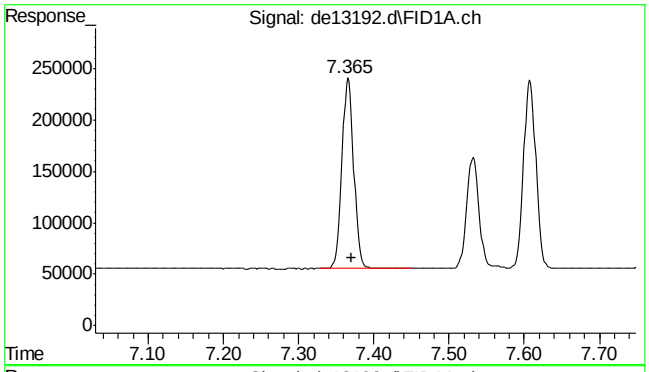
#3 2-methylnaphthalene

R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



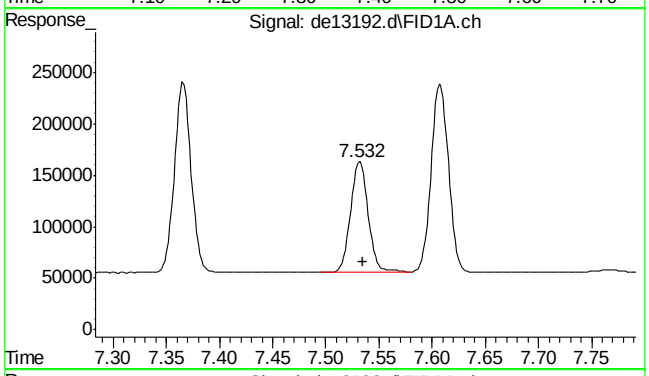
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml



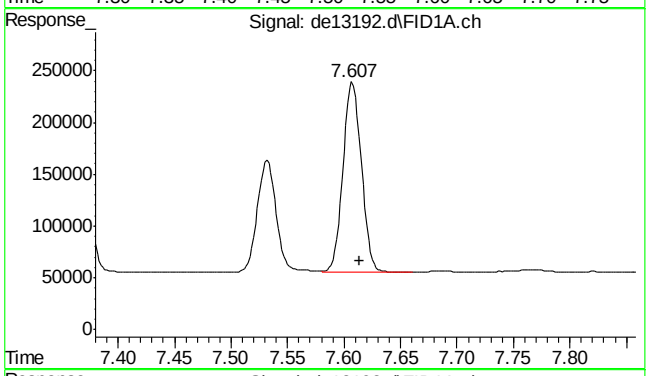
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



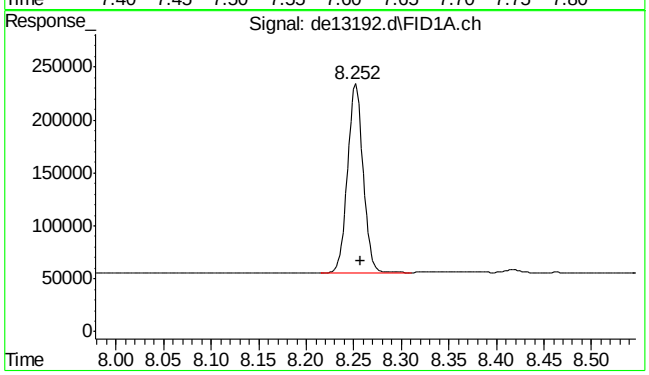
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



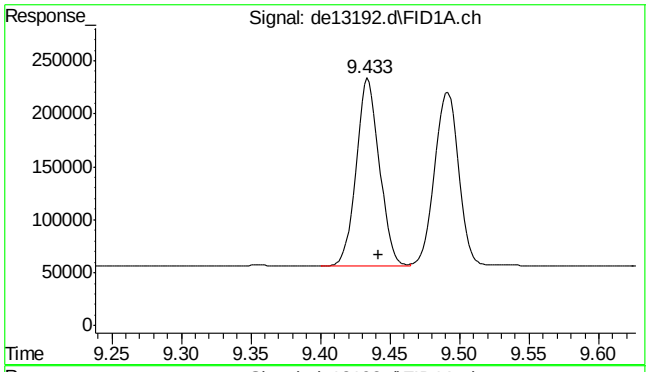
#7 acenaphthene

R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



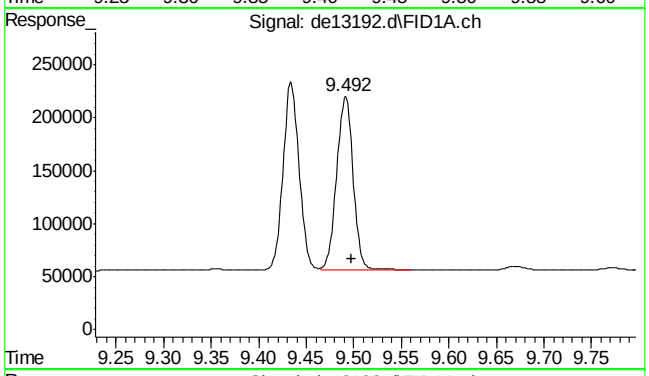
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml



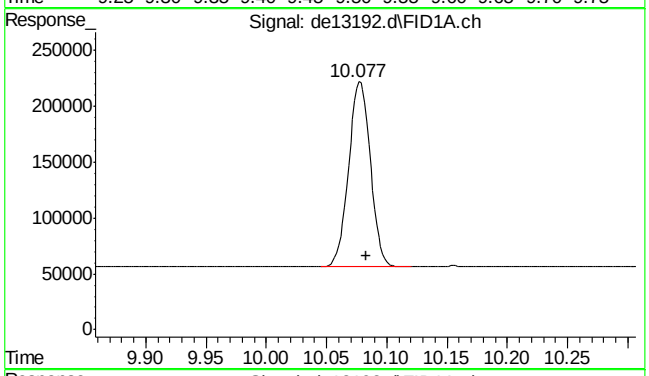
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



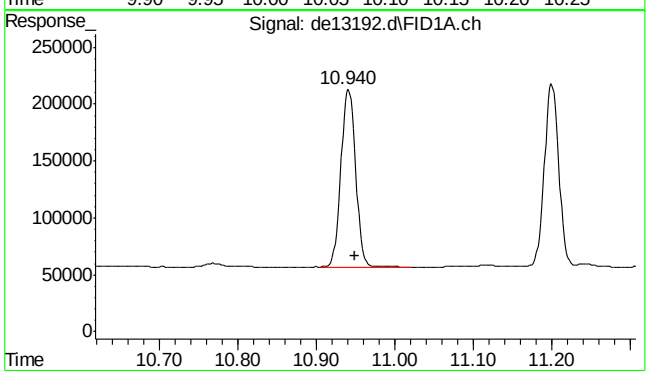
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 199105
Conc: 2.02 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 208029
Conc: 1.95 µg/ml



#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 203479
Conc: 1.96 µg/ml

9.5.2

9

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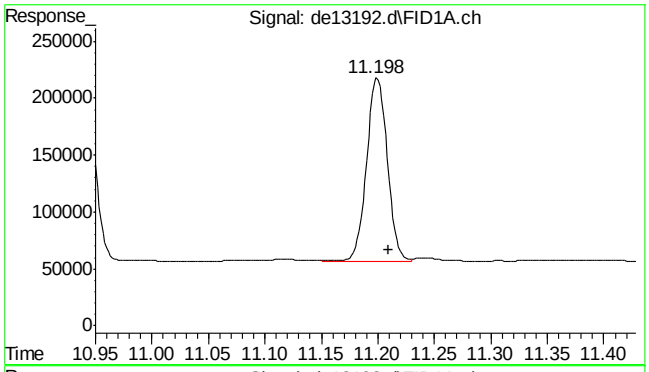
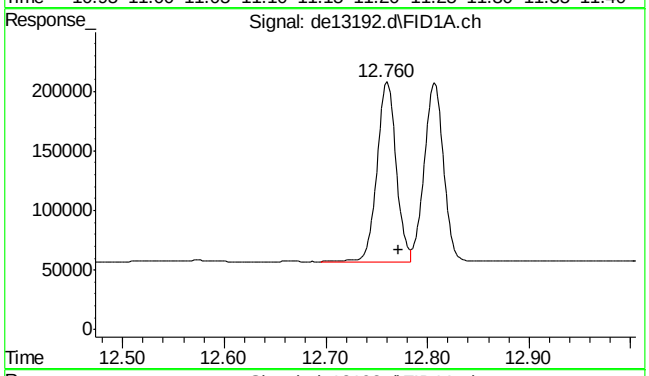


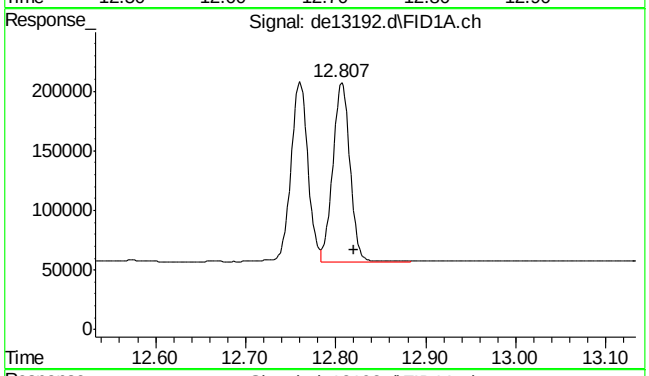
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



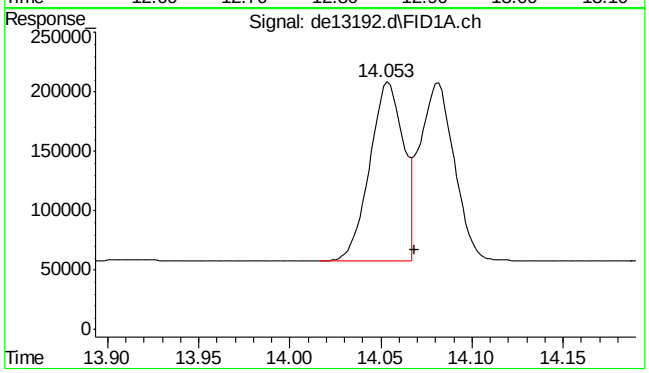
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



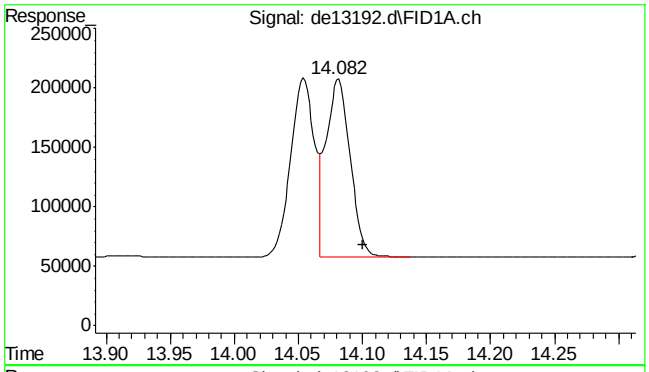
#15 chrysene

R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



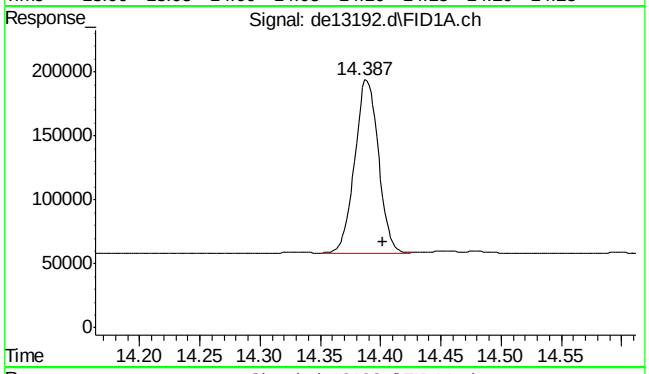
#16 benzo(B)fluoranthene

R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m



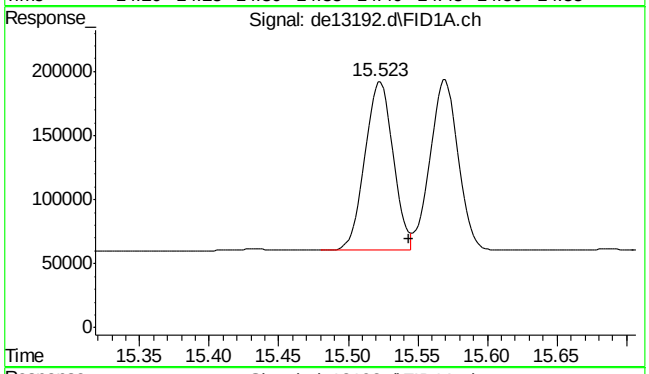
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



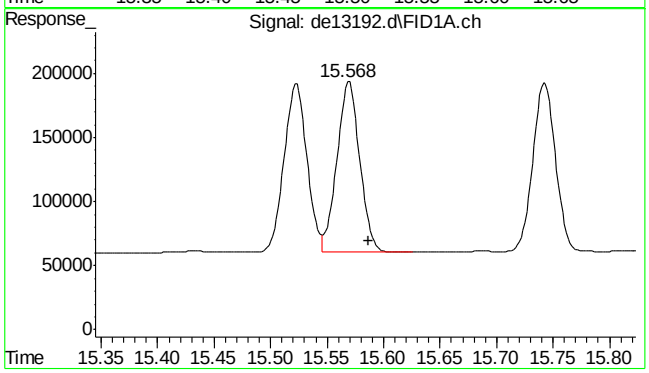
#18 benzo(a)pyrene

R.T.: 14.387 min
Delta R.T.: -0.015 min
Response: 184685
Conc: 1.91 µg/ml



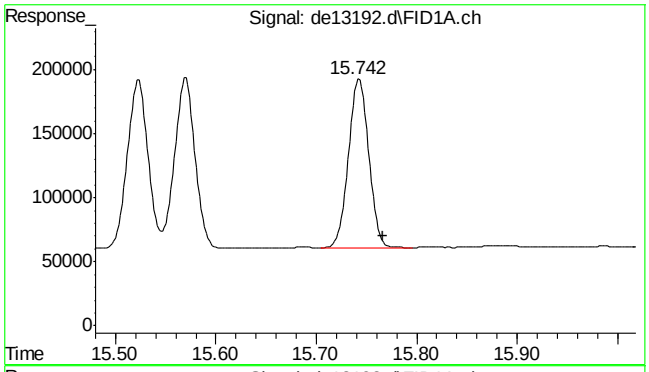
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



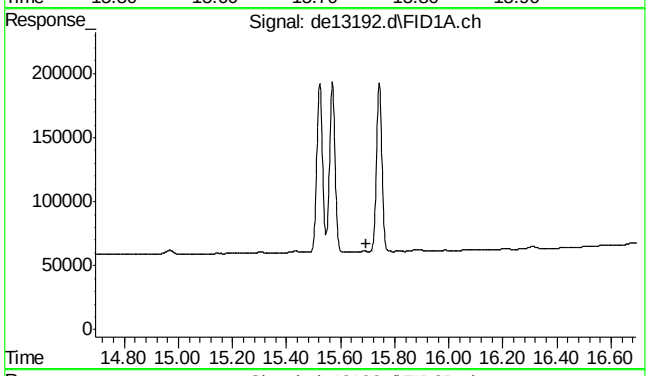
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml



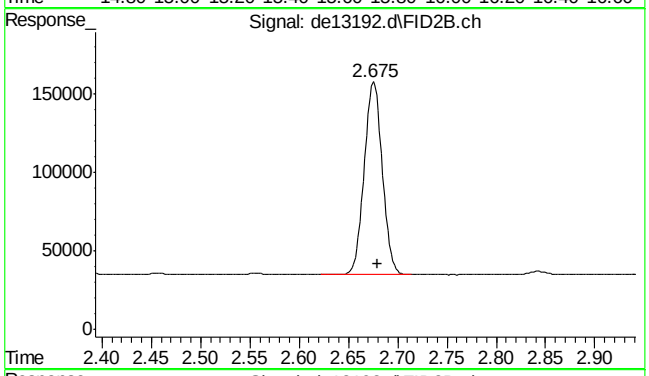
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



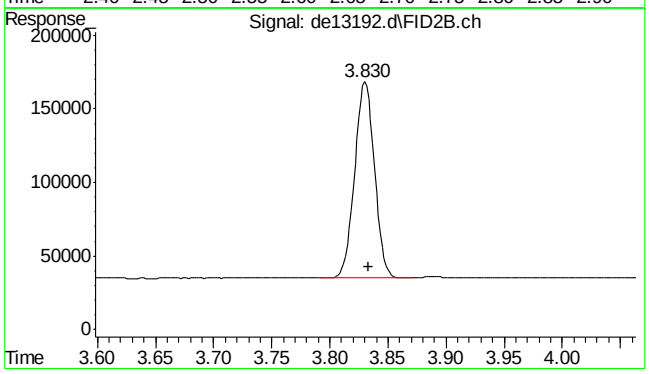
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



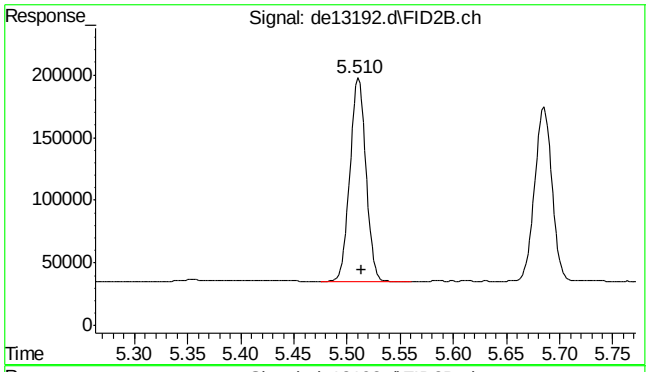
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 157422
Conc: 2.14 µg/ml m



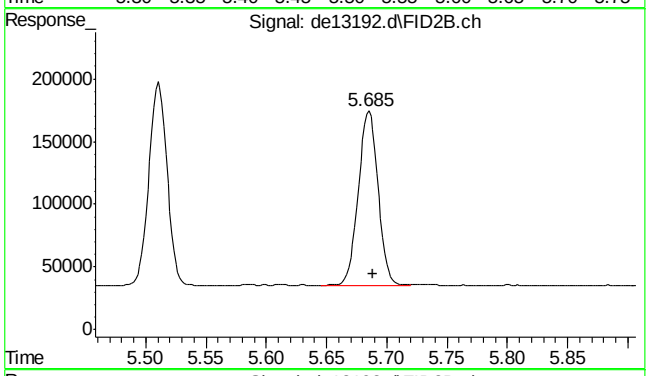
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 158649
Conc: 2.14 µg/ml m



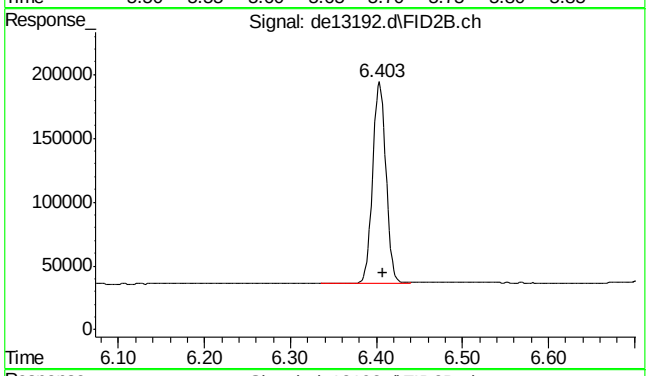
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



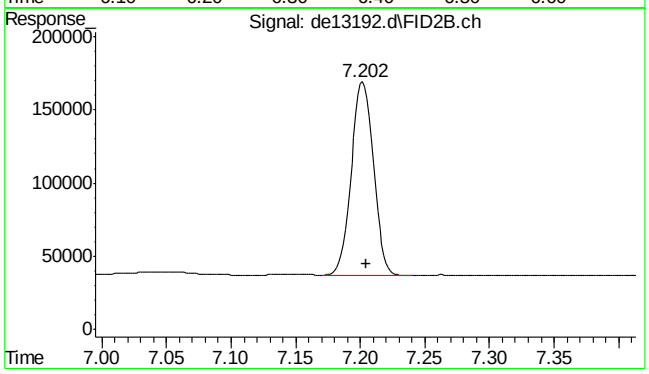
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 157764
Conc: 2.14 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 172009
Conc: 2.15 µg/ml



#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.5.2

9

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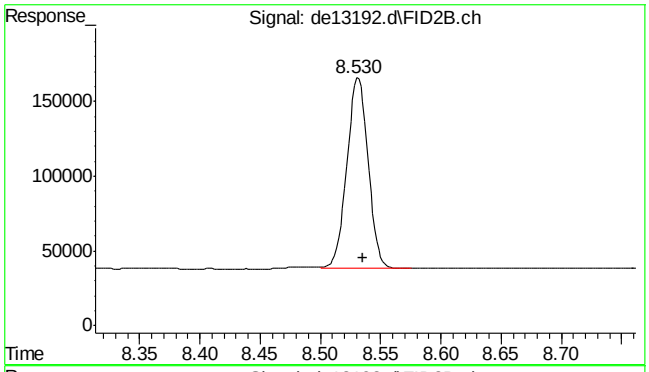
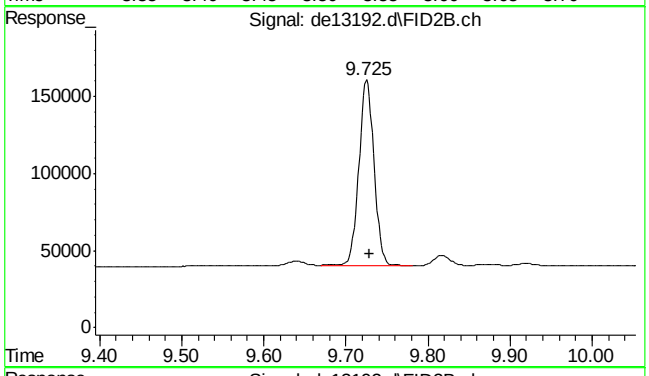


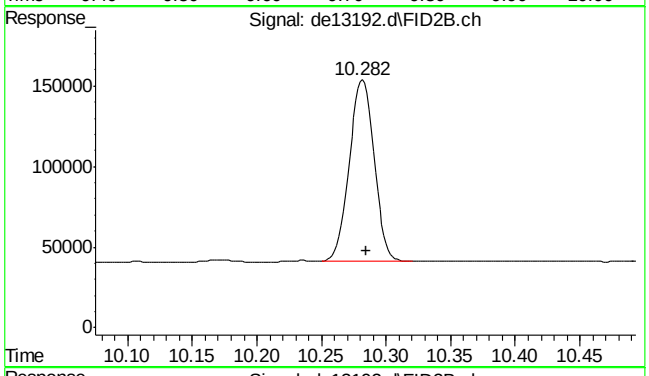
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



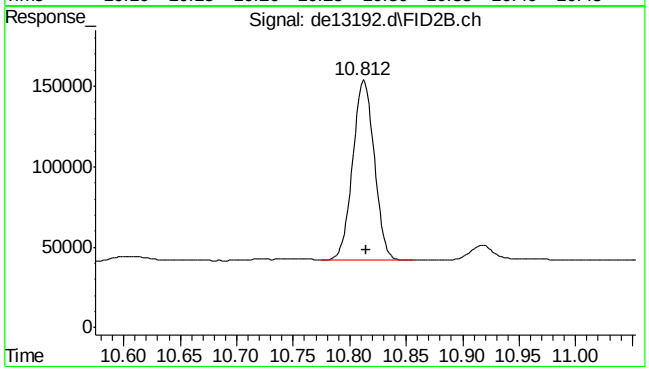
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



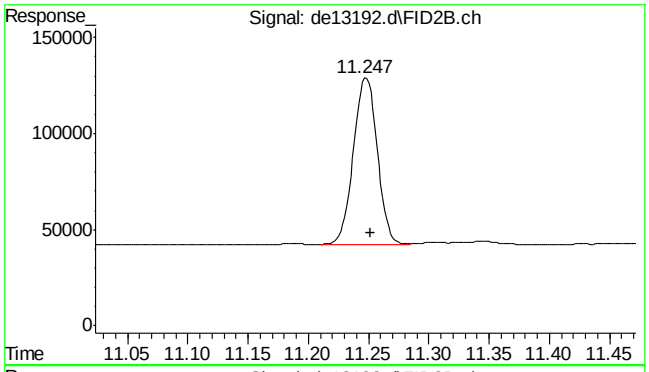
#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



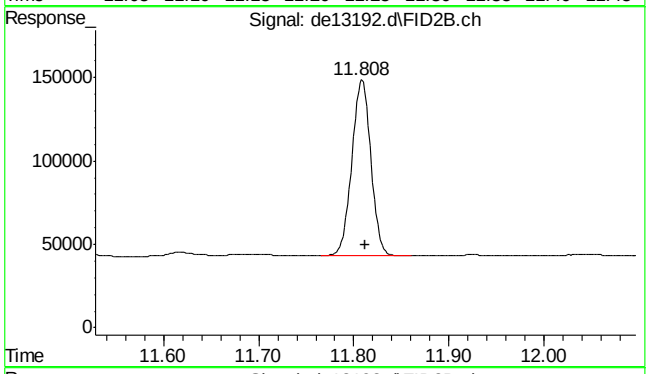
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml



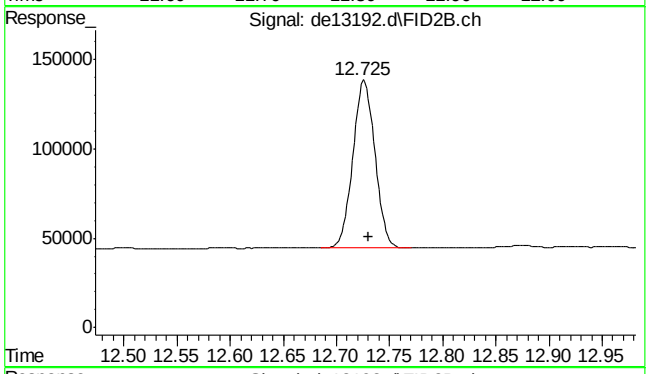
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



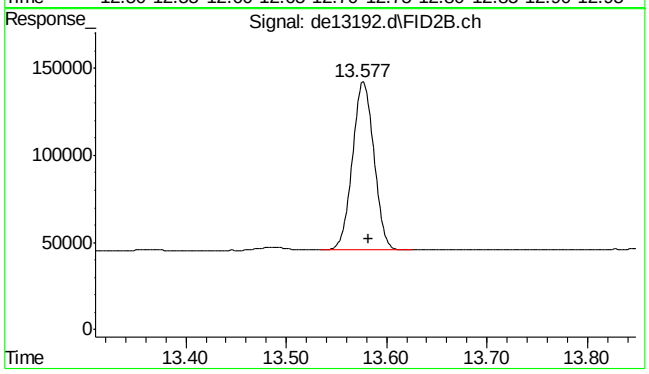
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

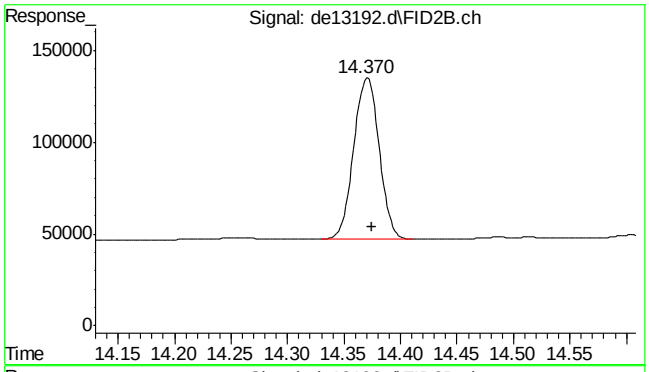
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

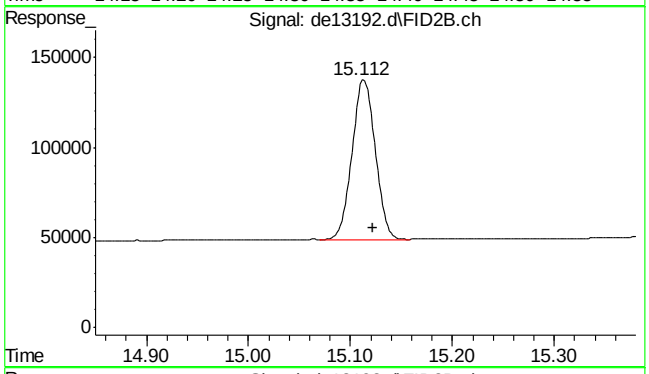
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC45611



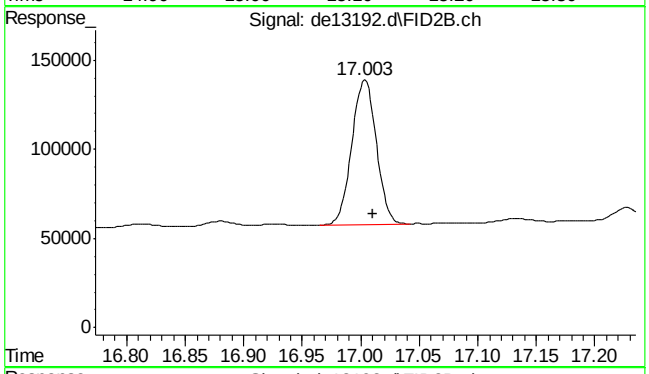
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



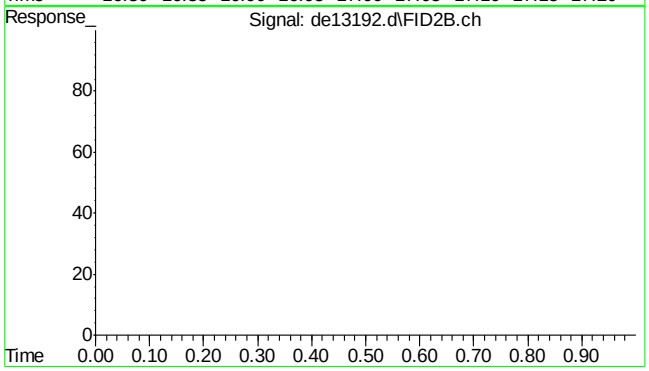
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 139197
Conc: 2.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 119416
Conc: 1.93 µg/ml m



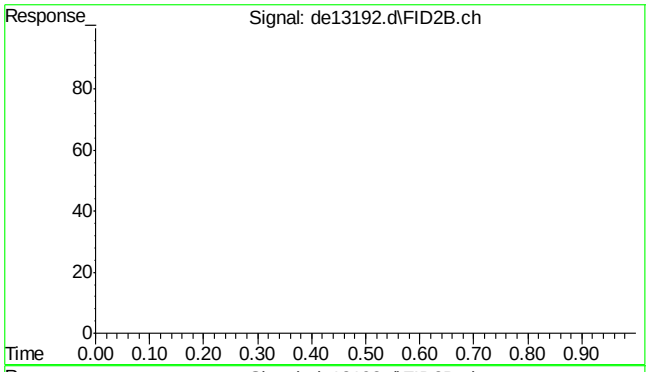
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.2

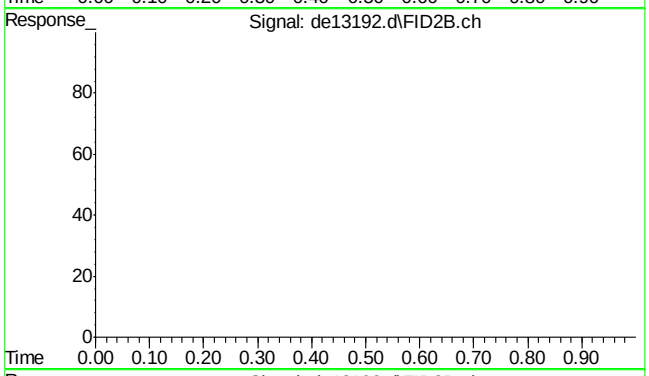
9

SGS ACCUTEST MC45611



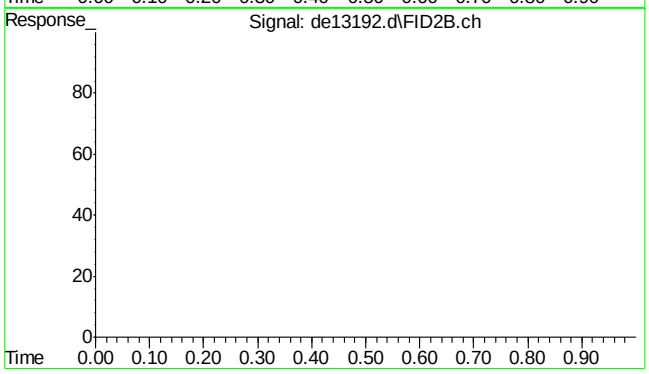
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

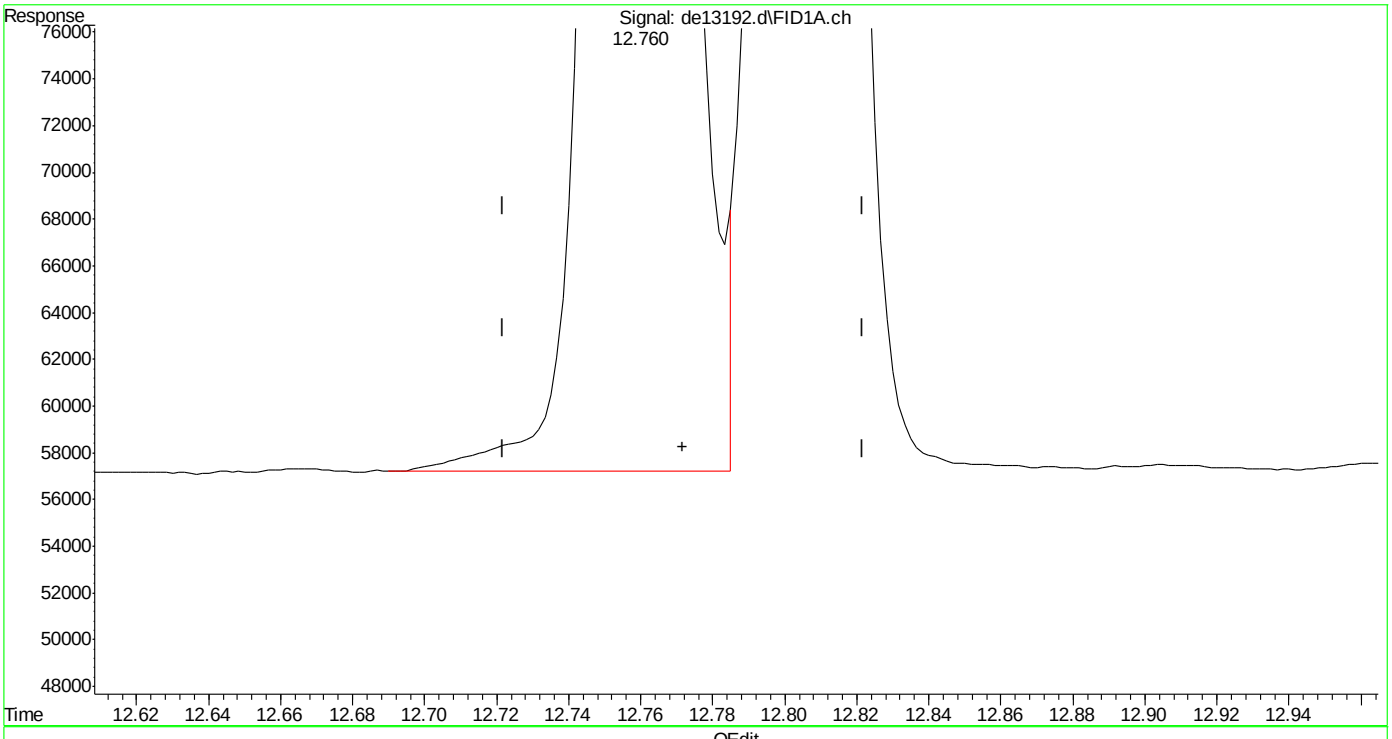
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.760min 2.018 µg/ml
response 198598

(+) = Expected Retention Time

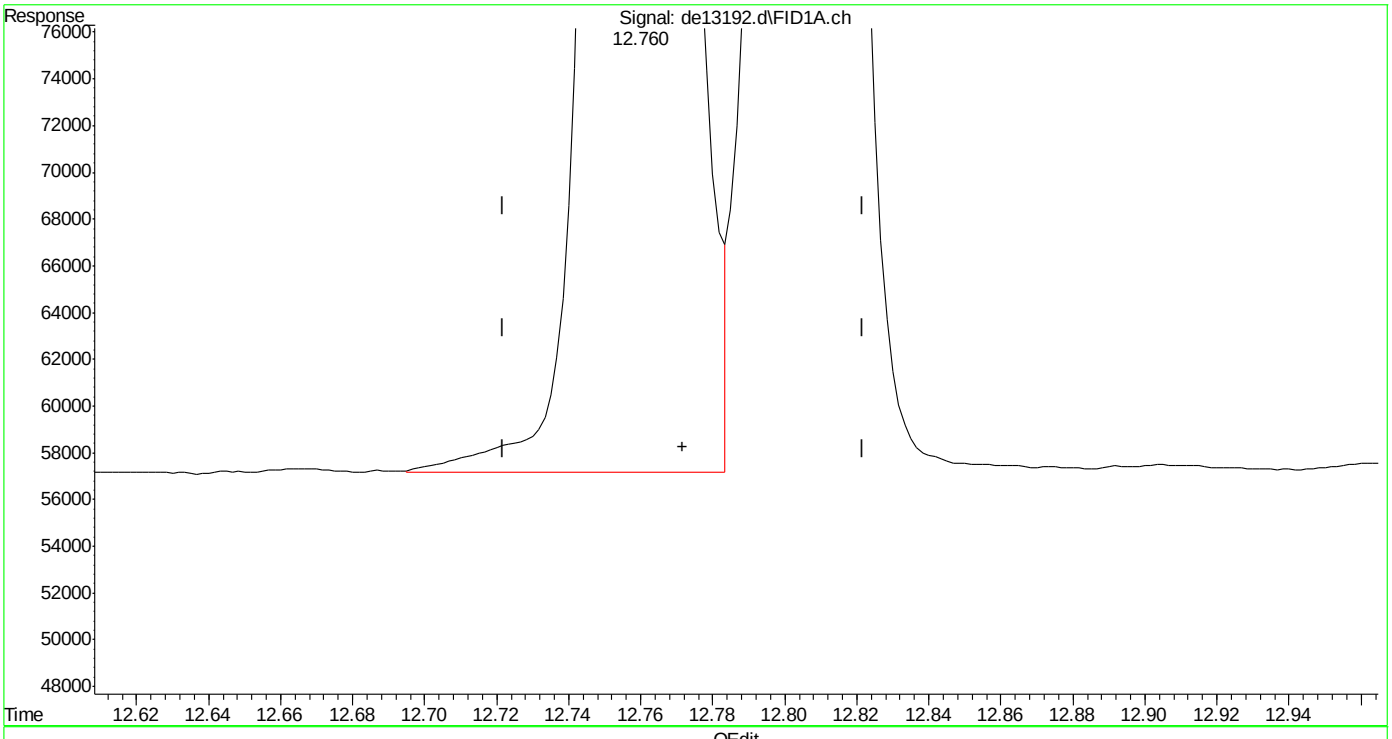
SGS ACCUTEST MC45611

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

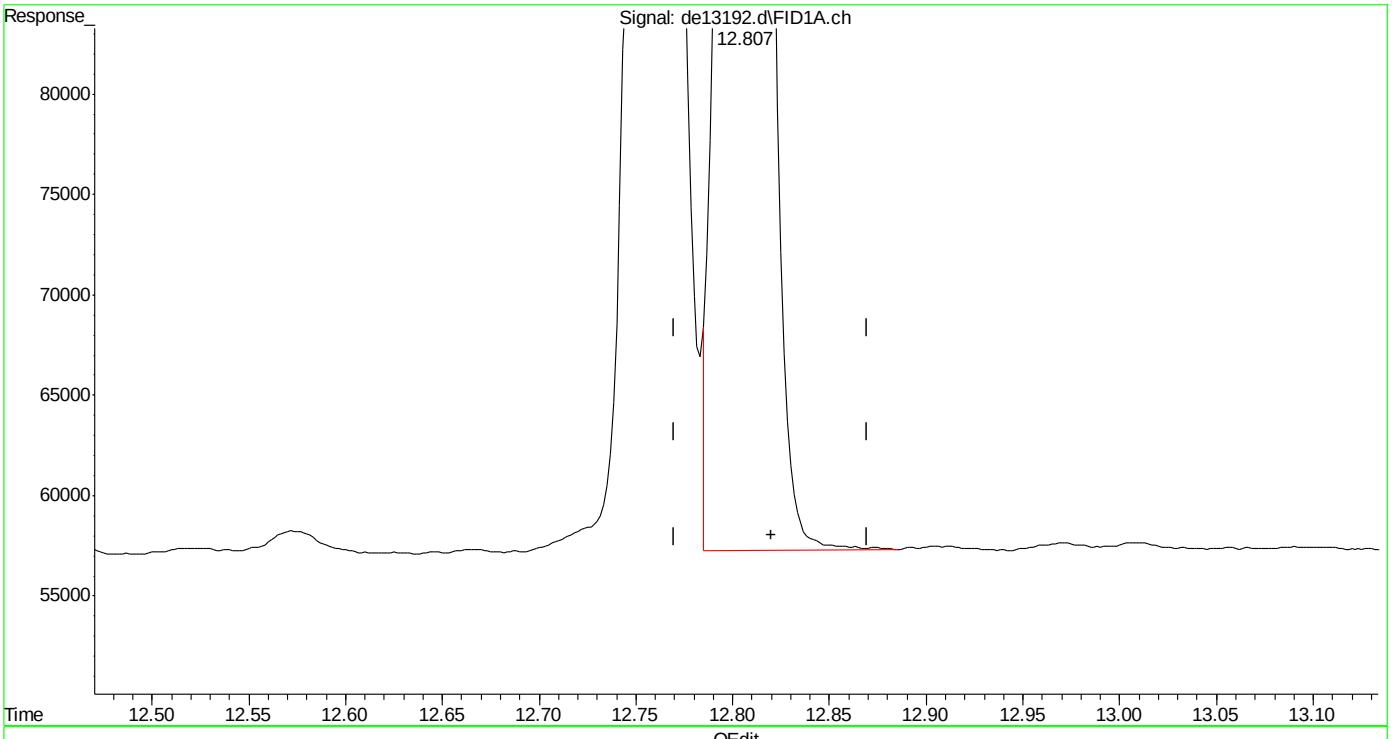
SGS ACCUTEST MC45611

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

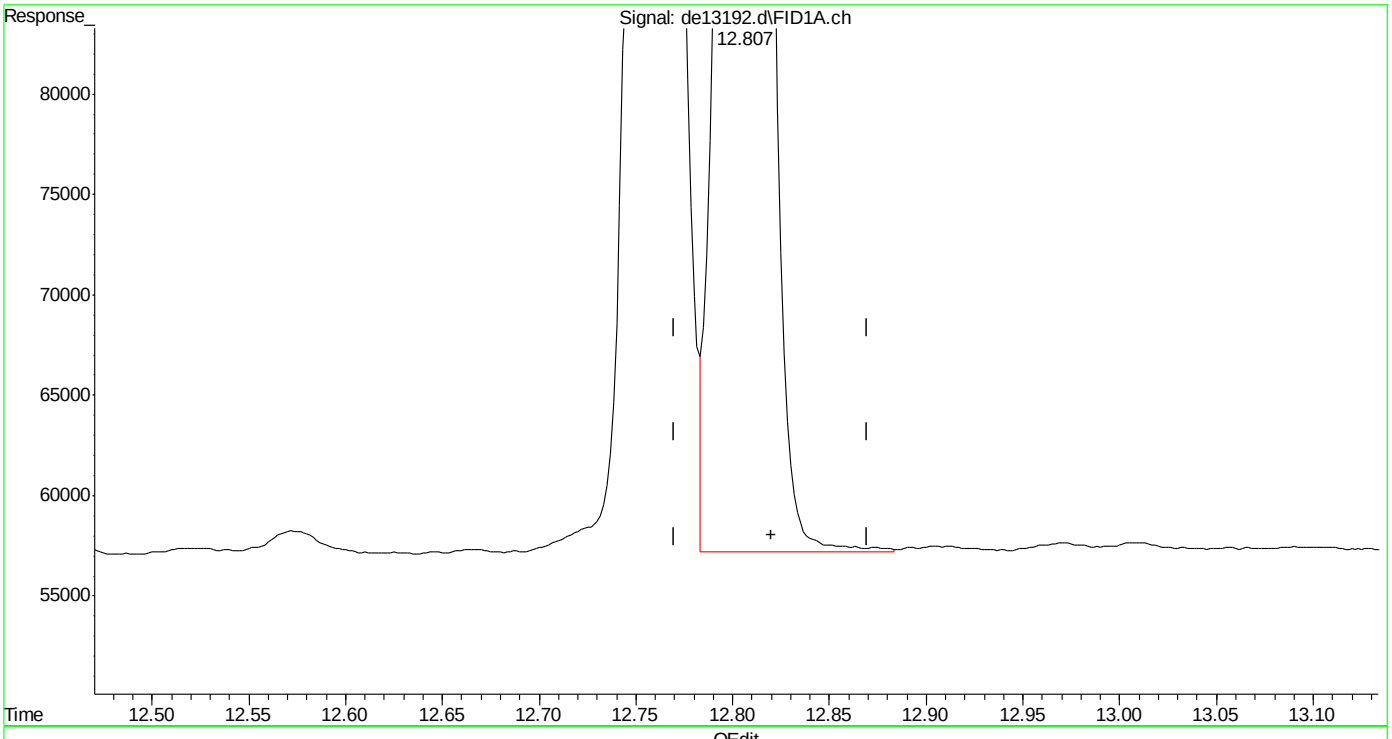
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:39:49 2016

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

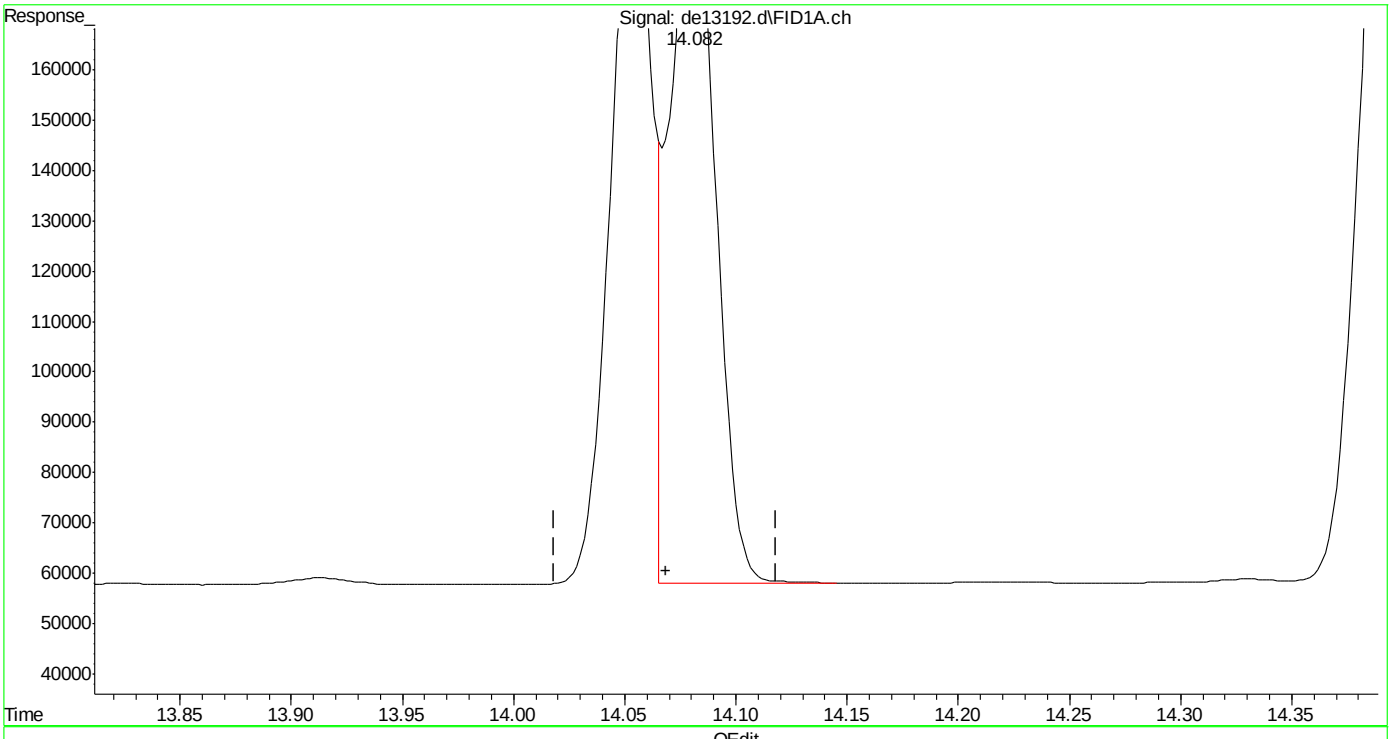
EPH160204M.M Fri Feb 05 10:40:19 2016

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

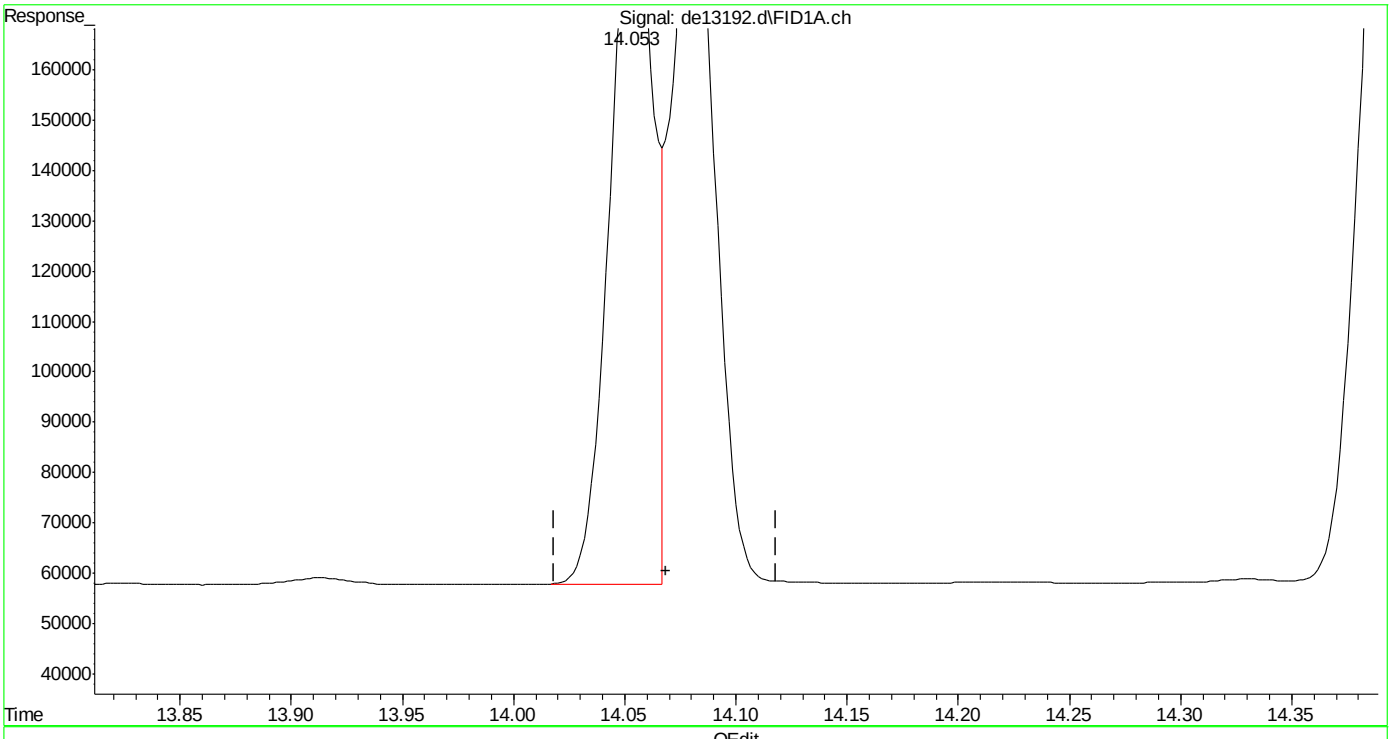
SGS ACCUTEST MC45611

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

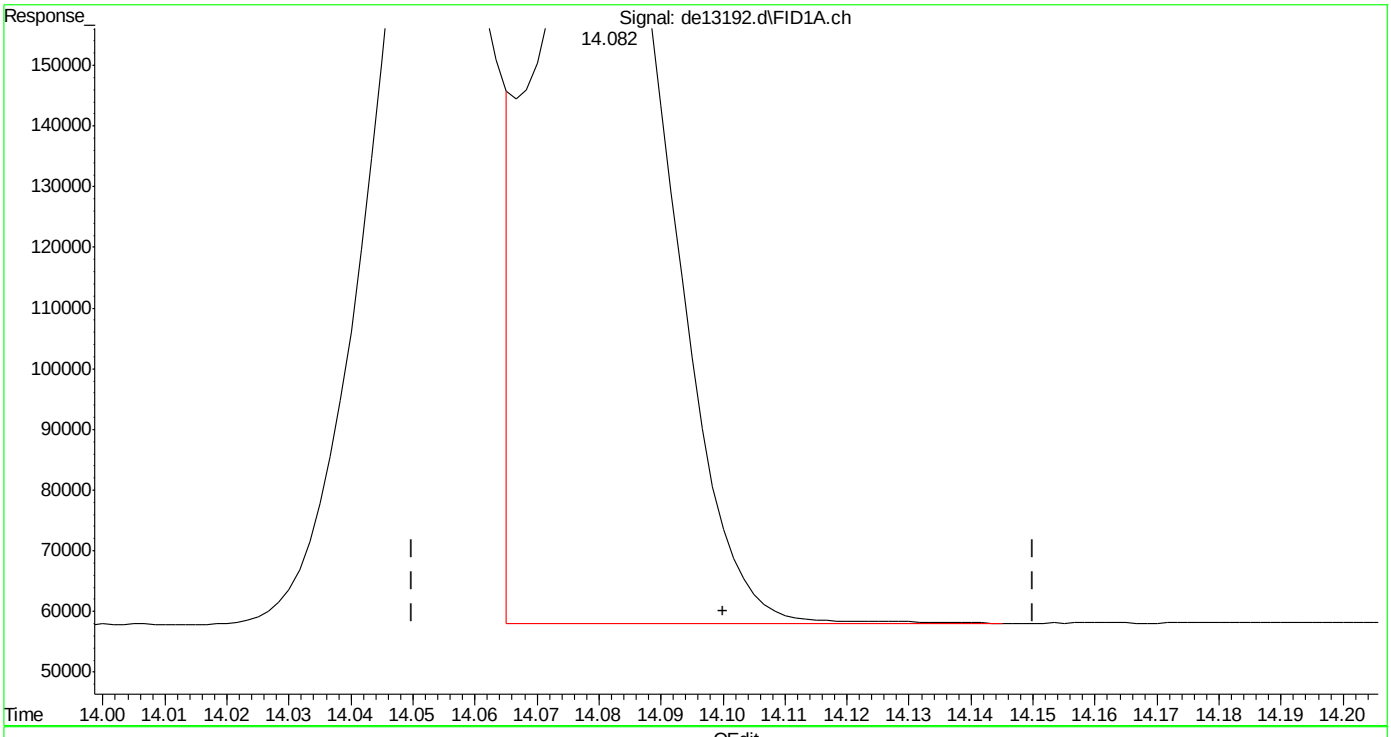
(+) = Expected Retention Time

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

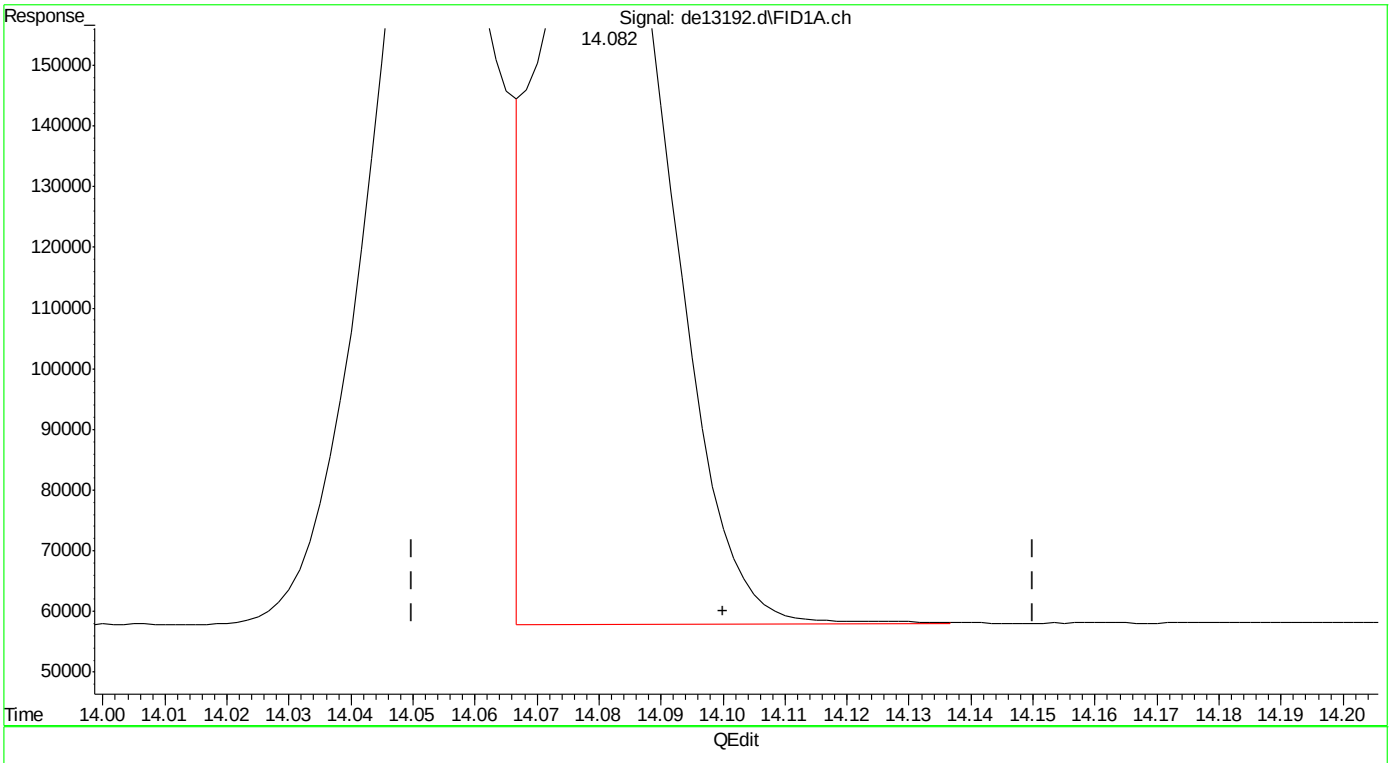
(+) = Expected Retention Time

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

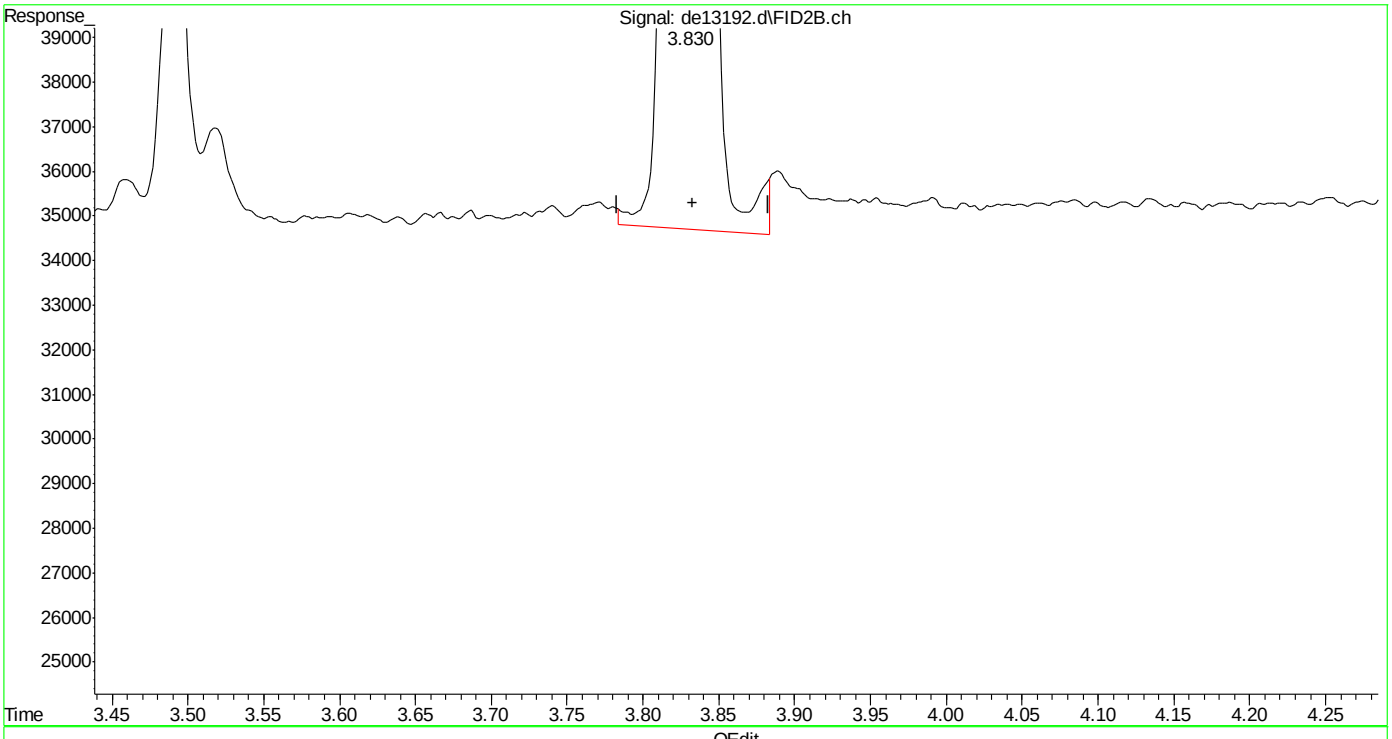
(+) = Expected Retention Time

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

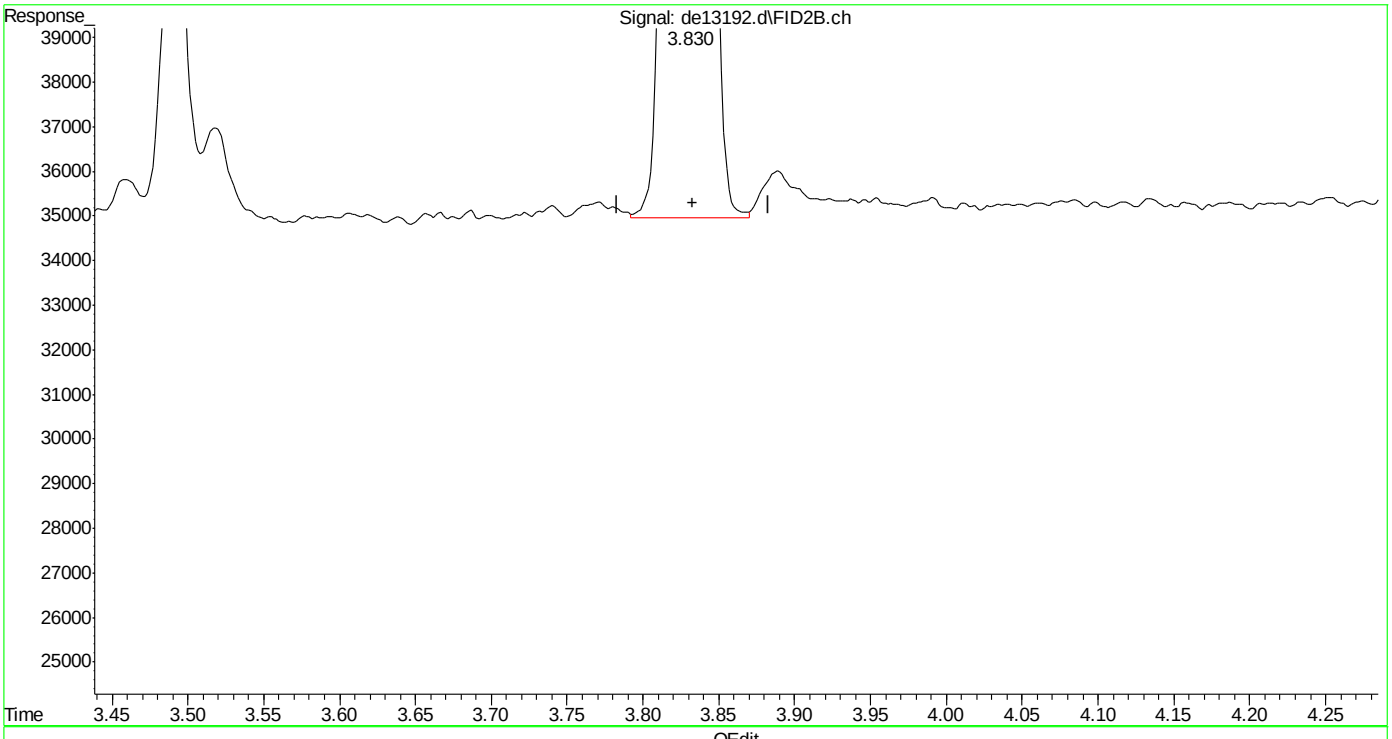
SGS ACCUTEST MC45611

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

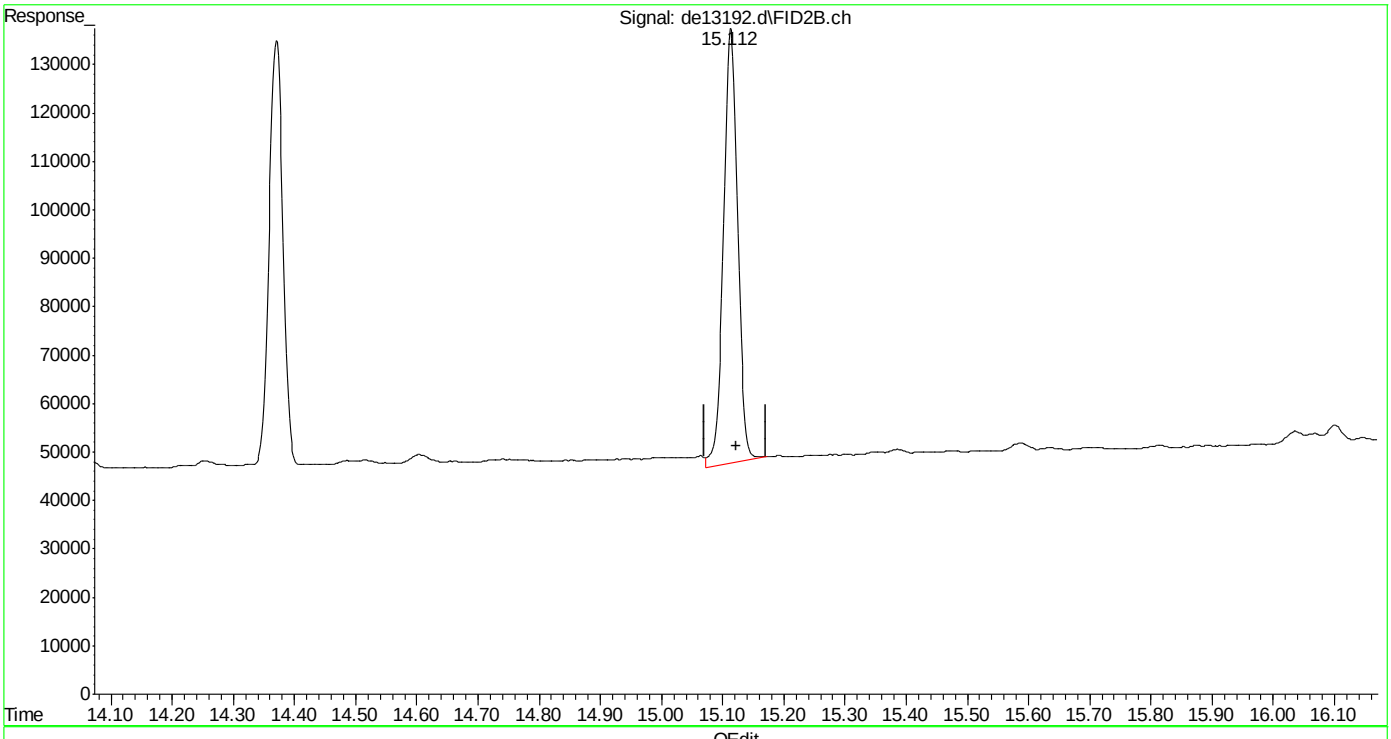
(+) = Expected Retention Time

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

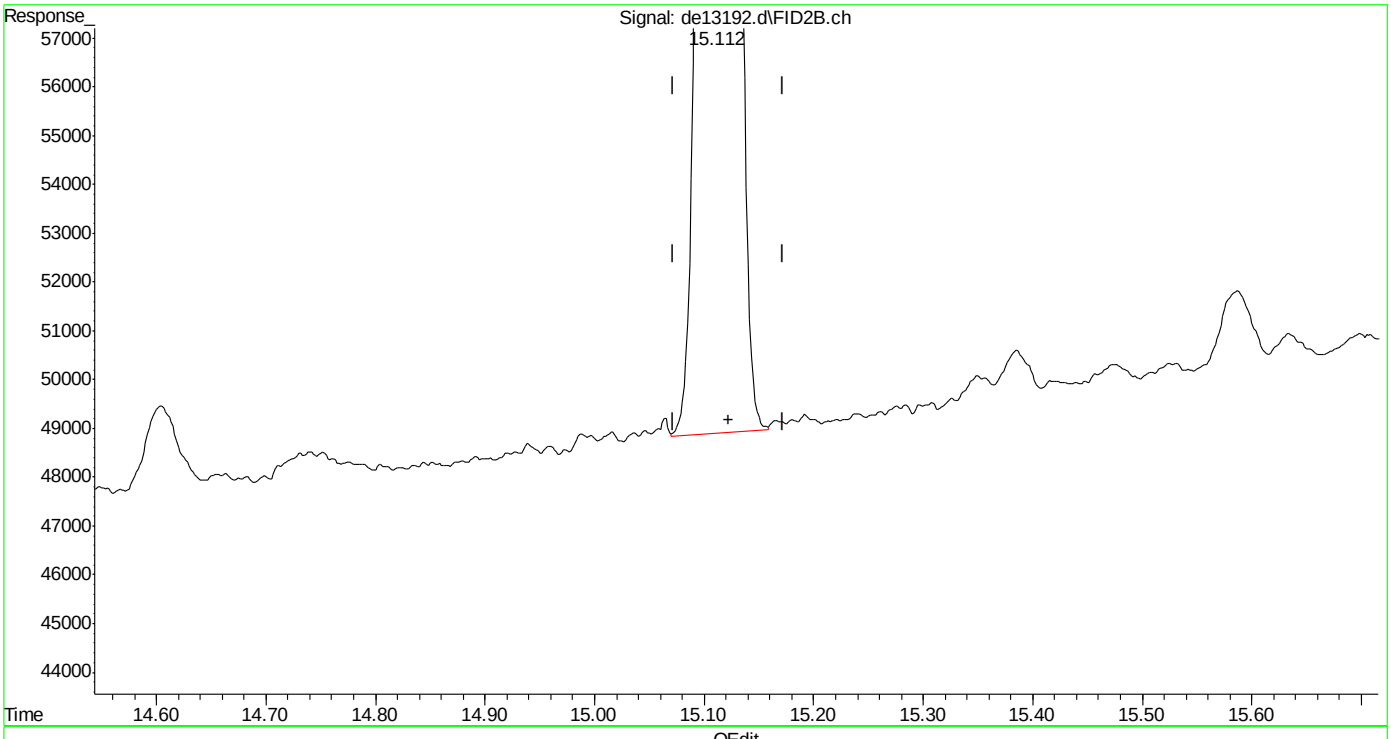
(+) = Expected Retention Time

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

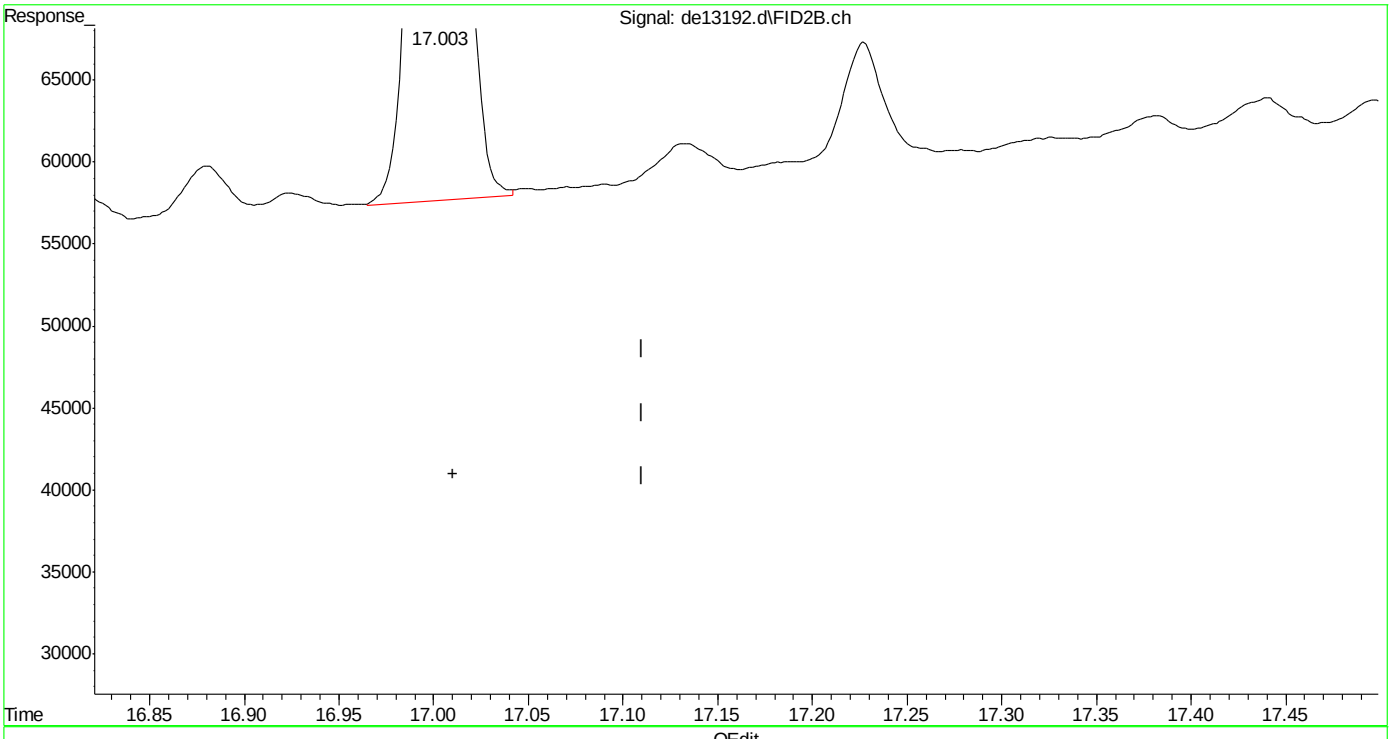
SGS ACCUTEST MC45611

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

SGS ACCUTEST MC45611

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

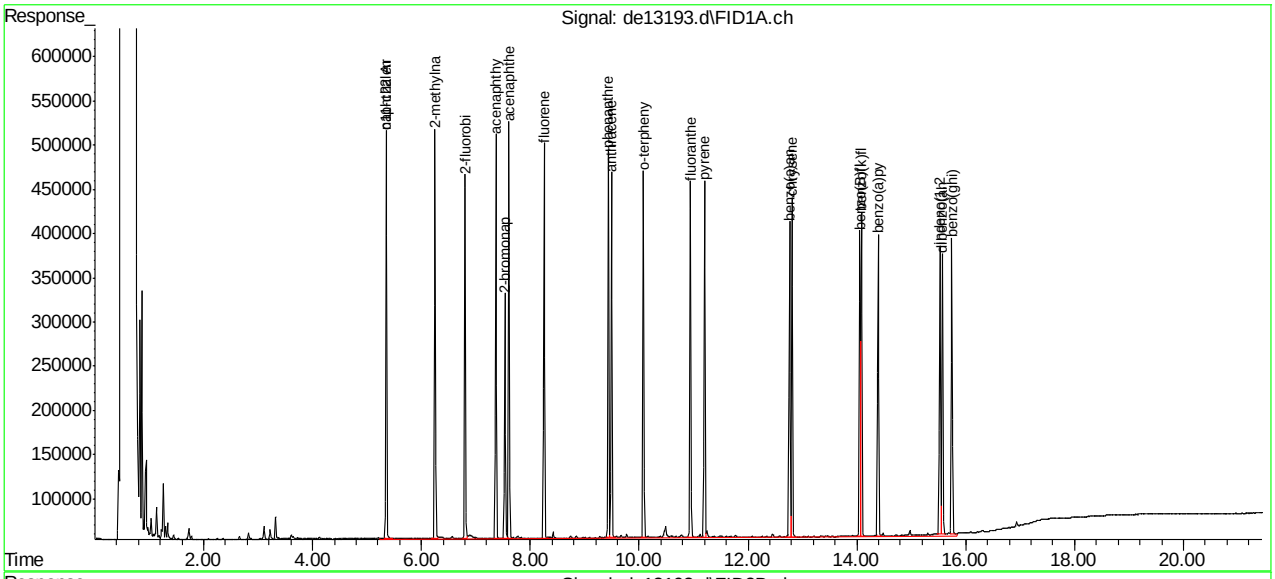
(f)=RT Delta > 1/2 Window (m)=manual int.

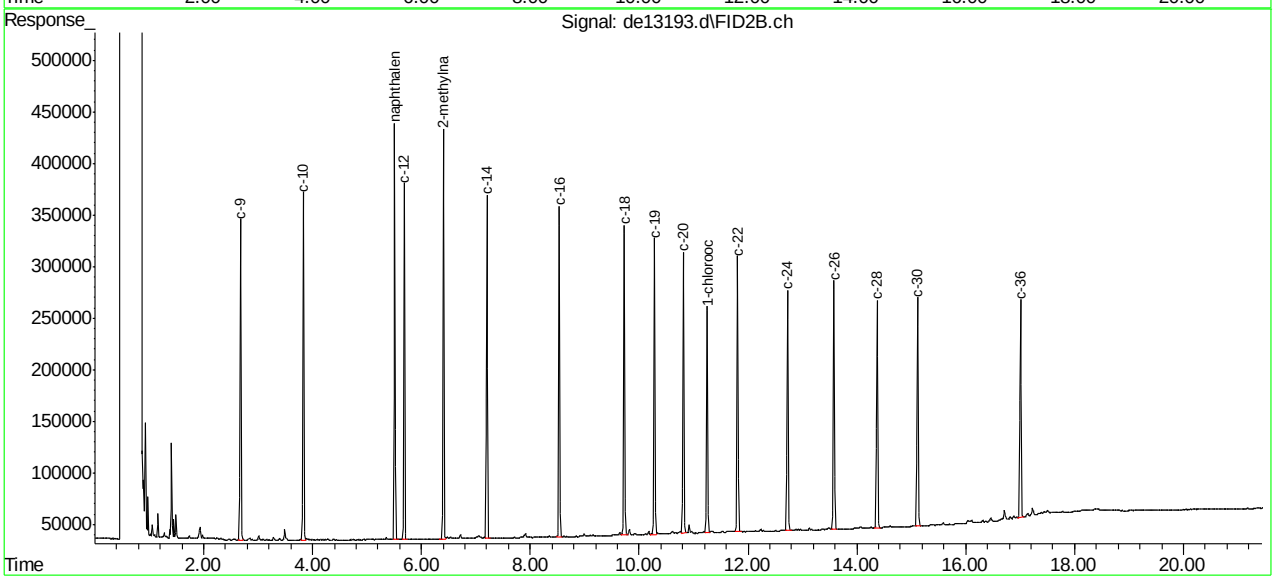
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

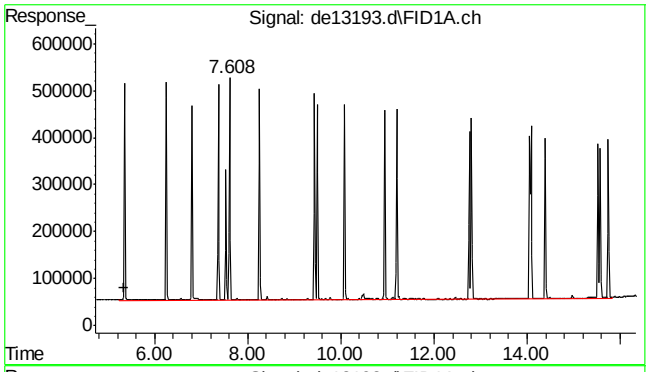
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



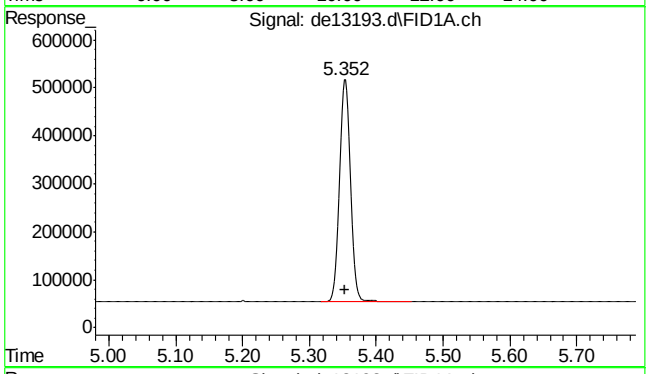


SGS ACCUTEST MC45611



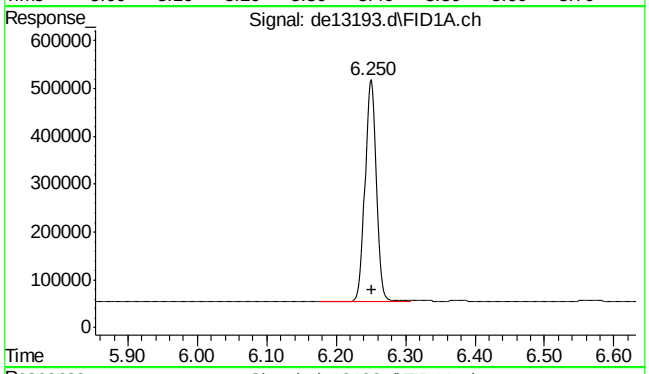
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



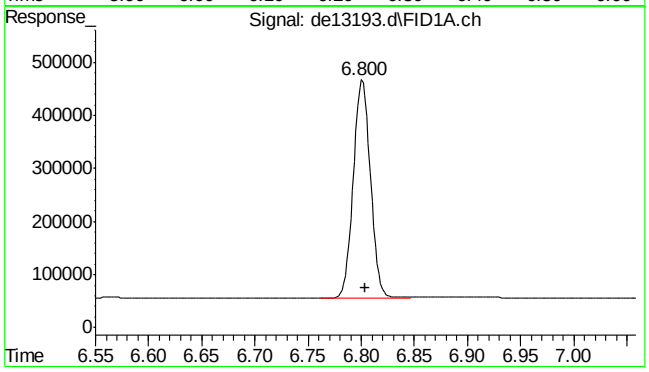
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



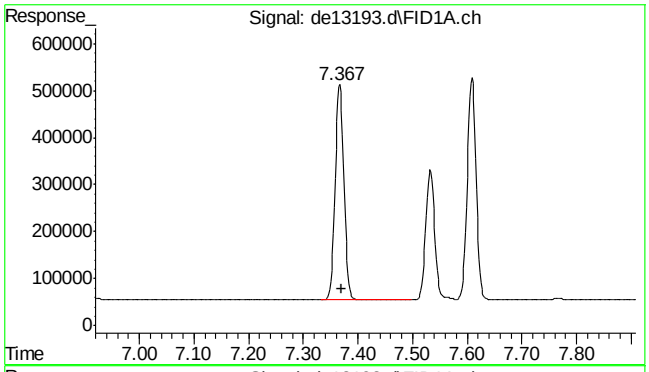
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

9.5.3

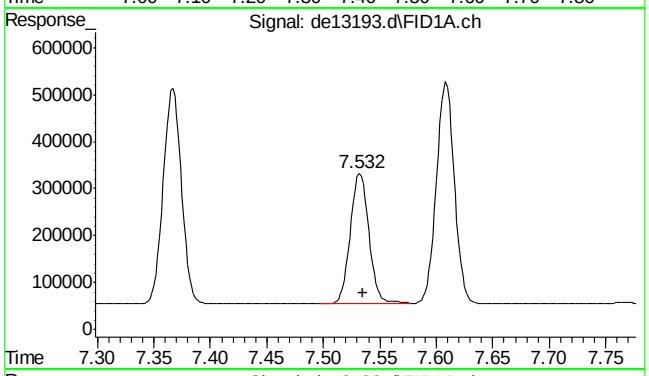
9

SGS ACCUTEST MC45611



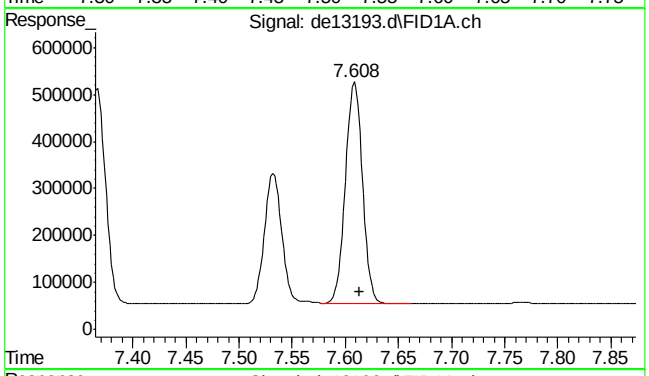
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



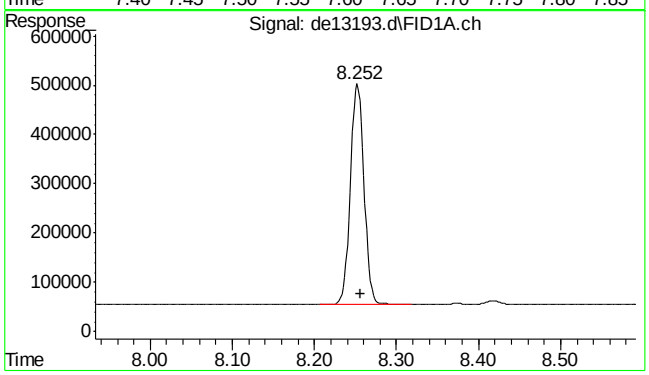
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 318410
Conc: 4.85 µg/ml



#7 acenaphthene

R.T.: 7.608 min
Delta R.T.: -0.005 min
Response: 524765
Conc: 4.86 µg/ml



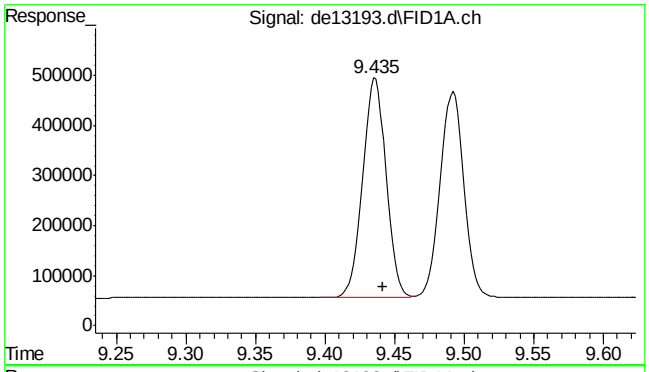
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml

9.5.3

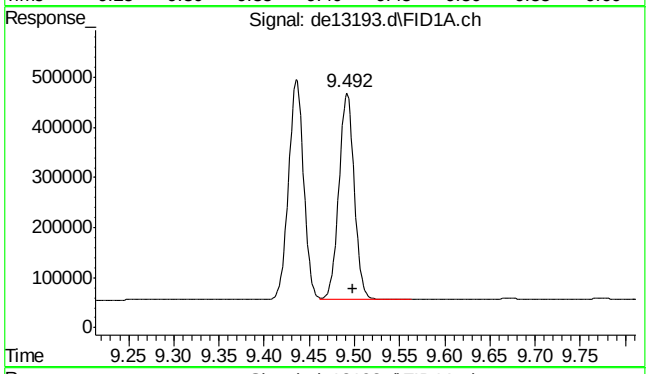
9

SGS ACCUTEST MC45611



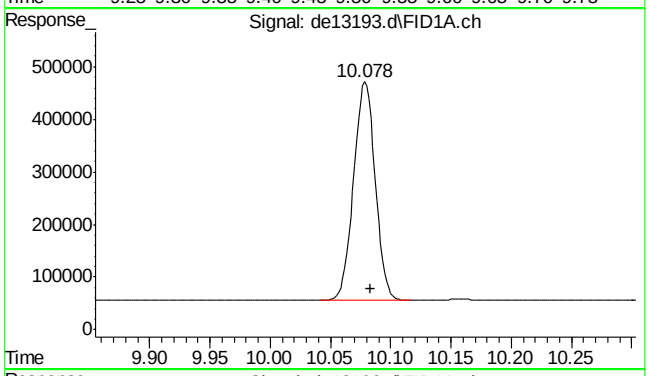
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



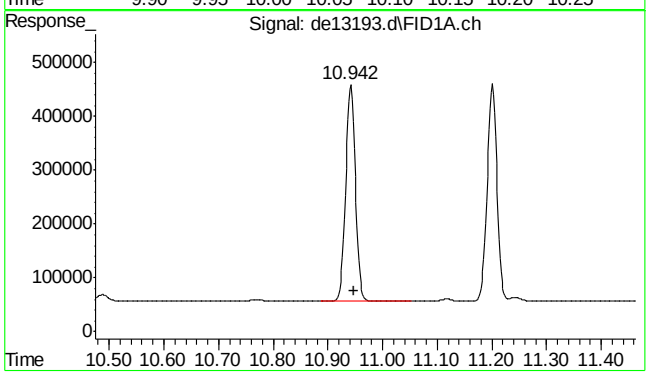
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



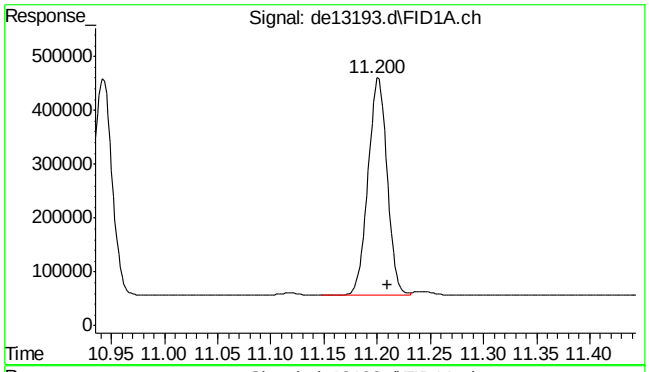
#11 o-terphenyl

R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



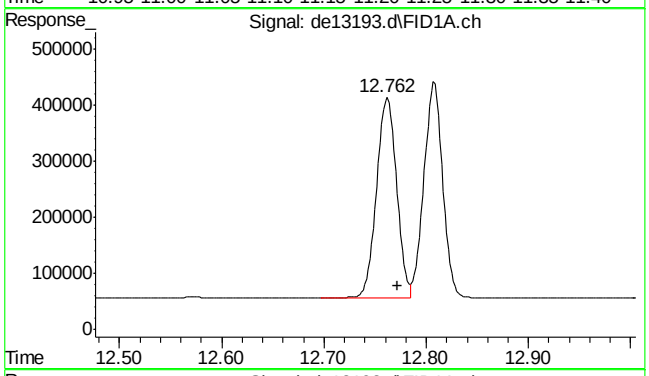
#12 fluoranthene

R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml



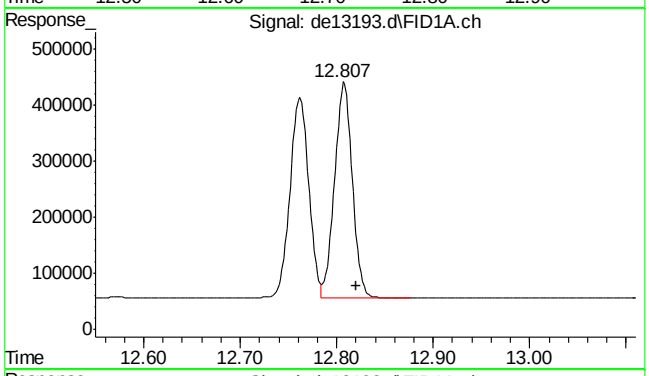
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



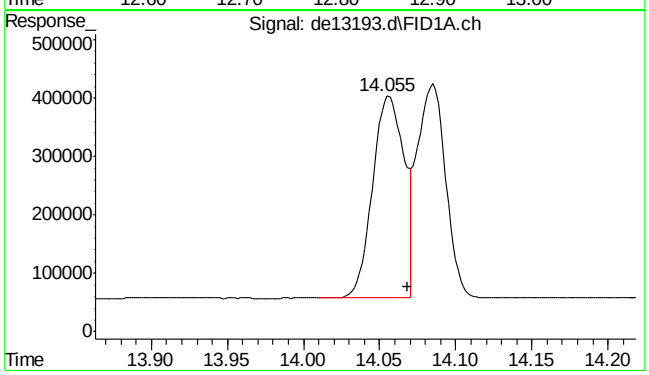
#14 benzo(a)anthracene

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

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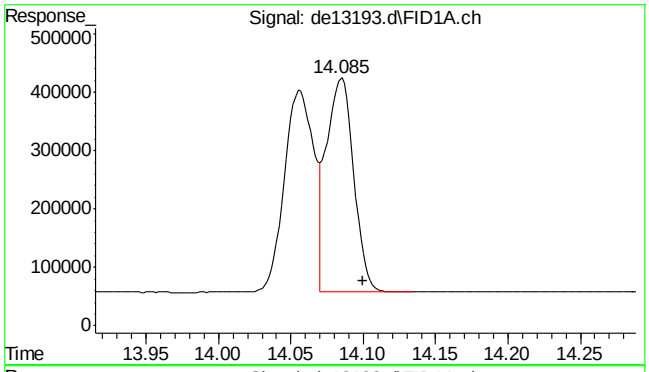
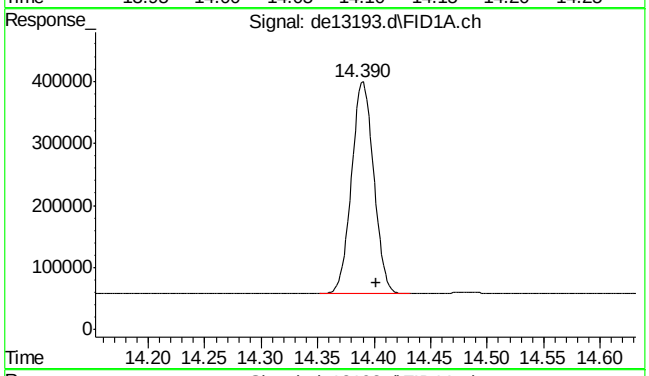


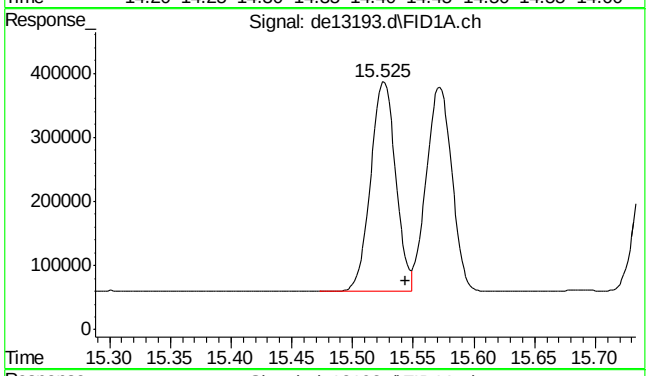
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



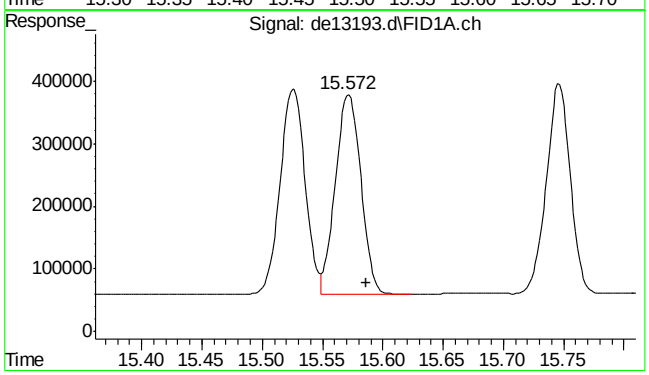
#18 benzo(a)pyrene

R.T.: 14.390 min
Delta R.T.: -0.012 min
Response: 464216
Conc: 4.85 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.525 min
Delta R.T.: -0.018 min
Response: 472235
Conc: 4.82 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.5.3

9

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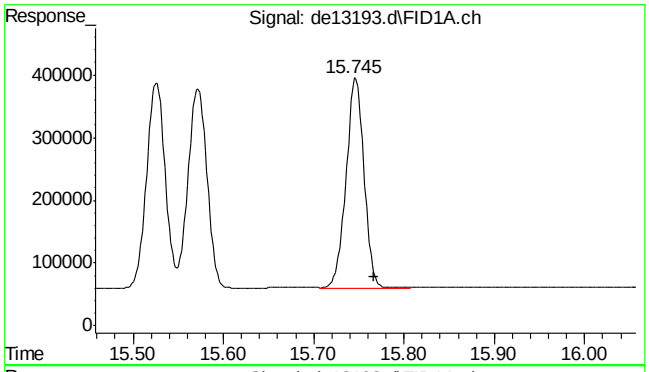
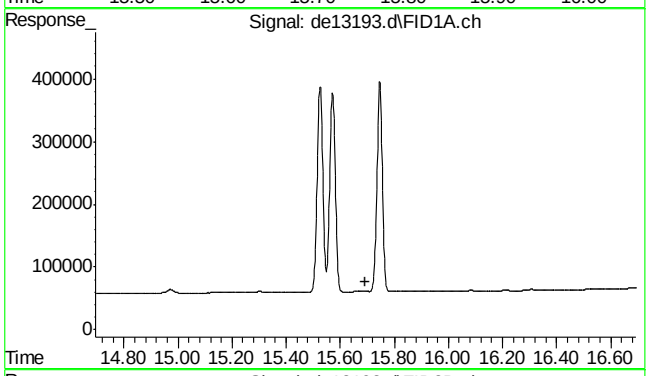


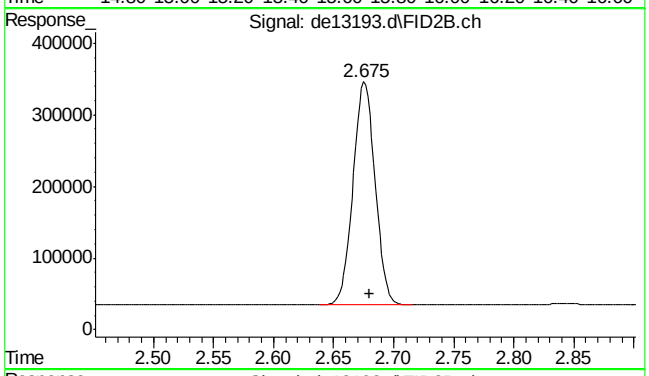
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



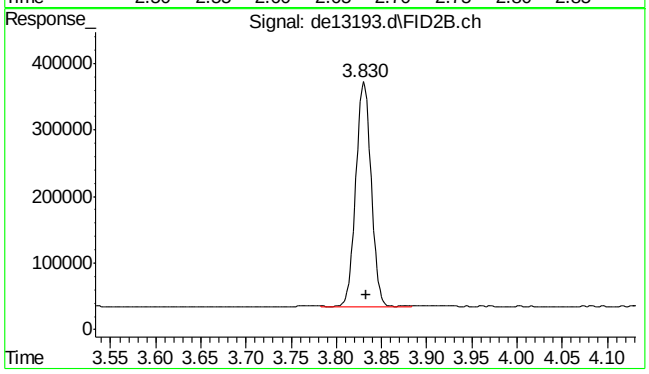
#22 bht

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



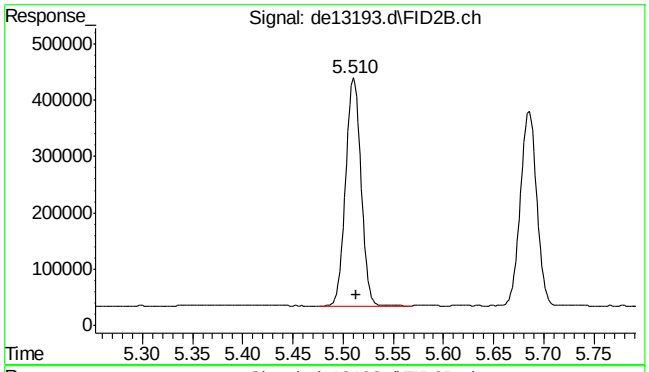
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

9.5.3

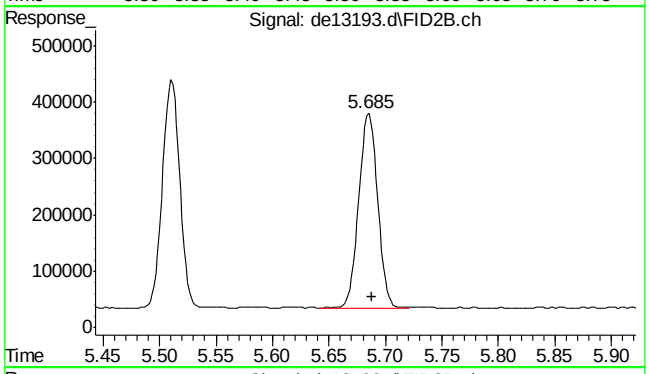
9

SGS ACCUTEST MC45611



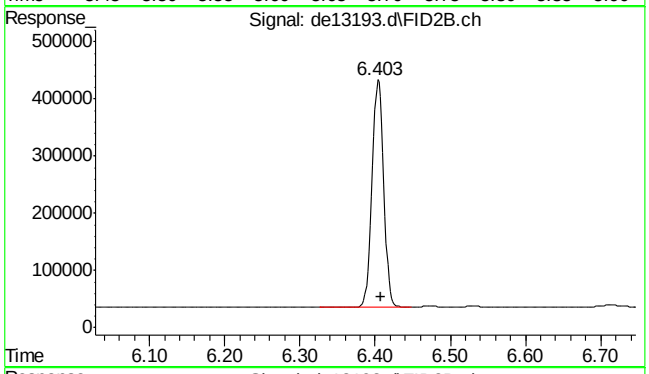
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



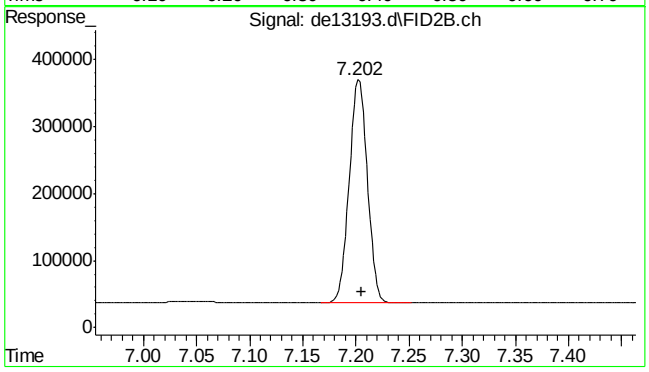
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 398273
Conc: 5.30 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 429906
Conc: 5.30 µg/ml



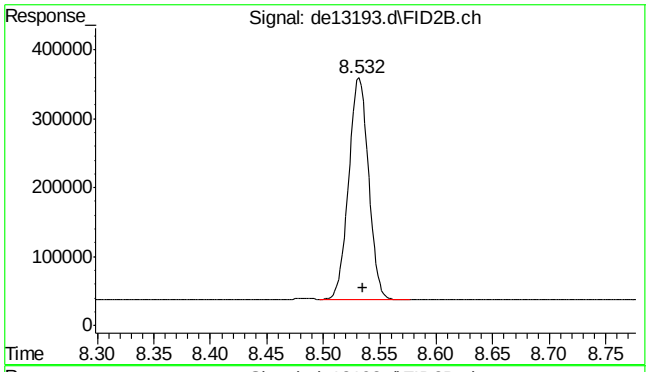
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

9.5.3

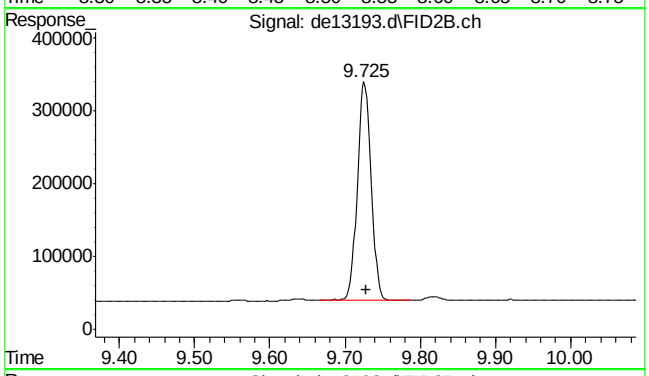
9

SGS ACCUTEST MC45611



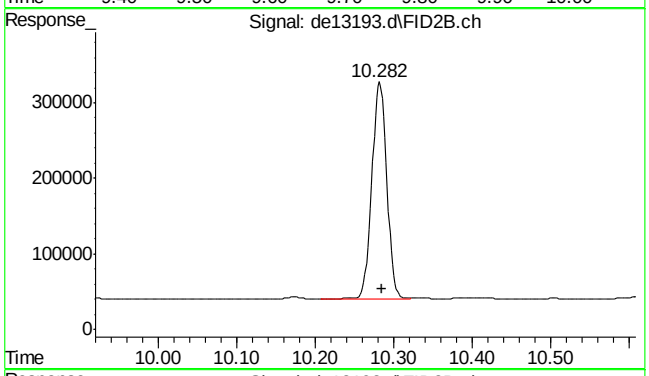
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



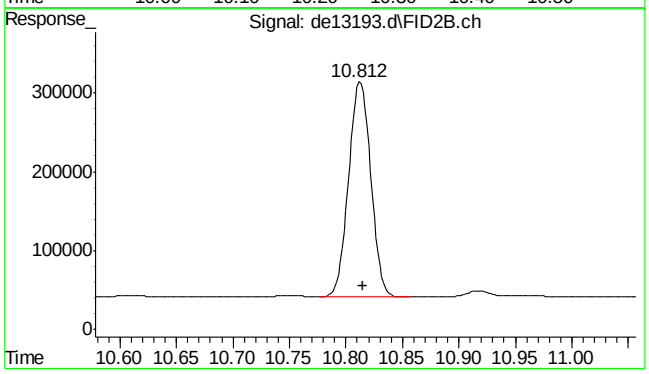
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 383929
Conc: 5.16 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 381074
Conc: 5.28 µg/ml



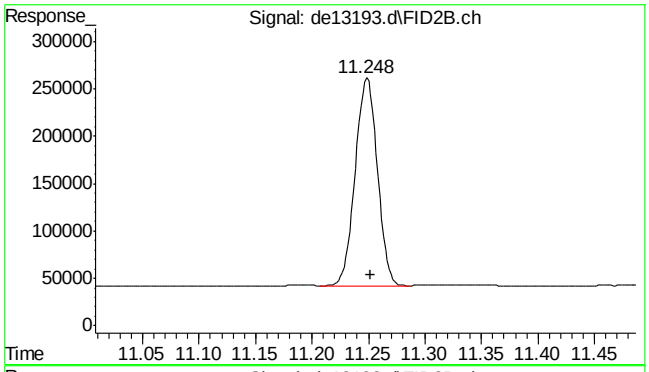
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.5.3

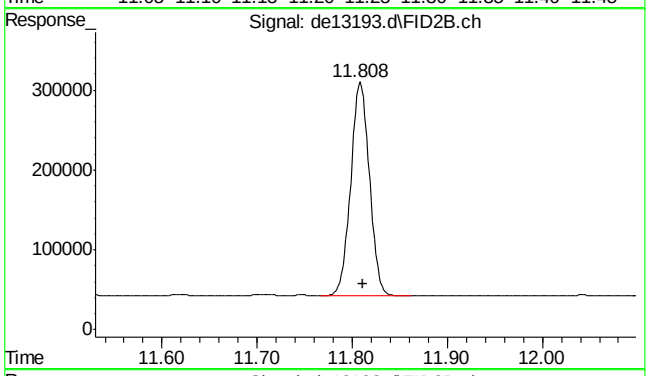
9

SGS ACCUTEST MC45611



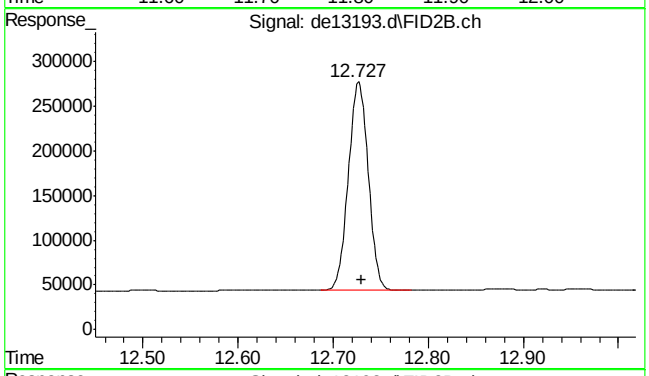
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



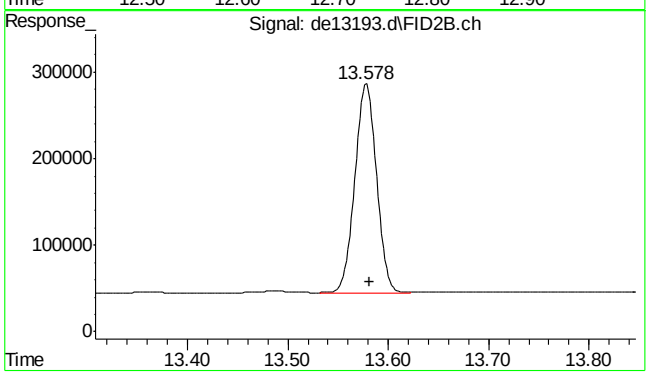
#36 c-22

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



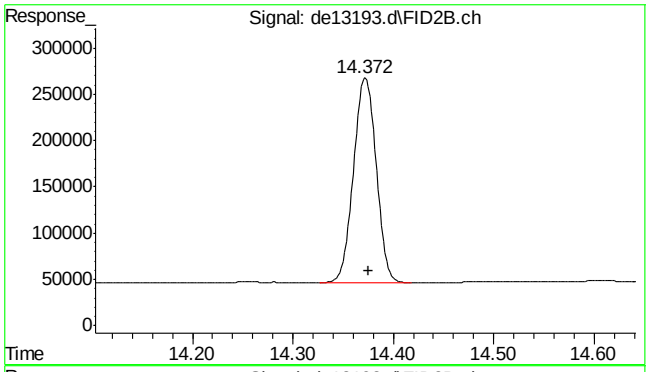
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml

9.5.3

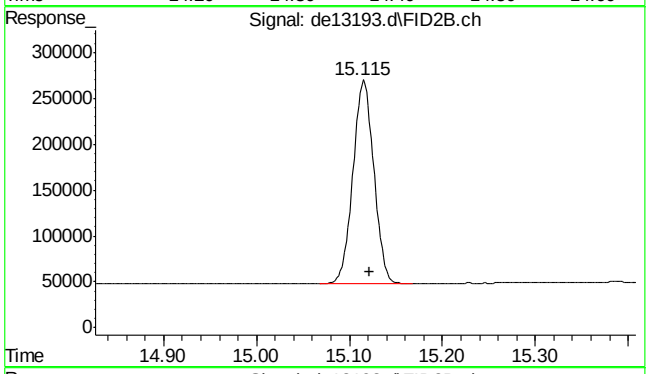
9

SGS ACCUTEST MC45611



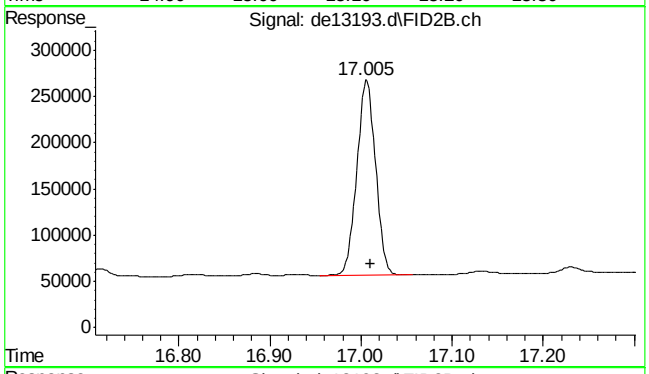
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



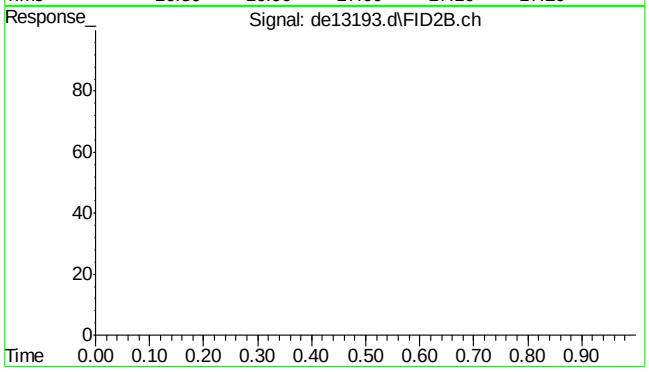
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 345750
Conc: 5.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 300895
Conc: 4.91 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.3

9

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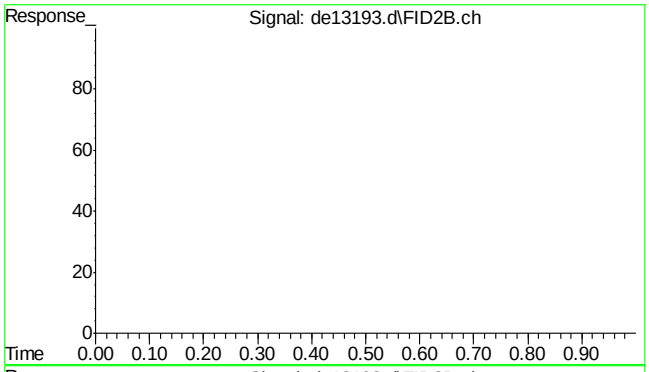
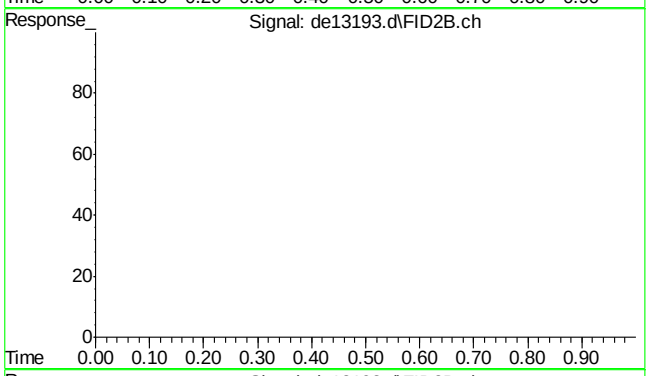


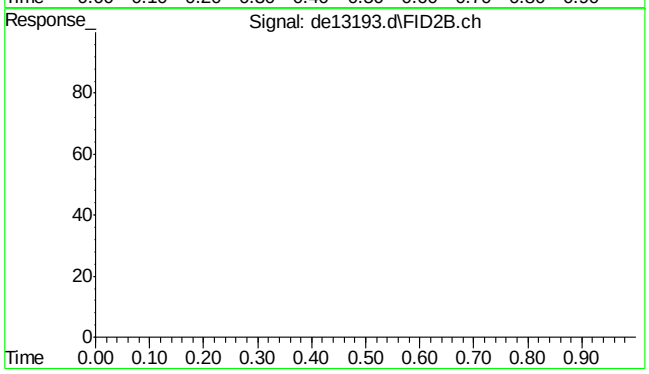
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

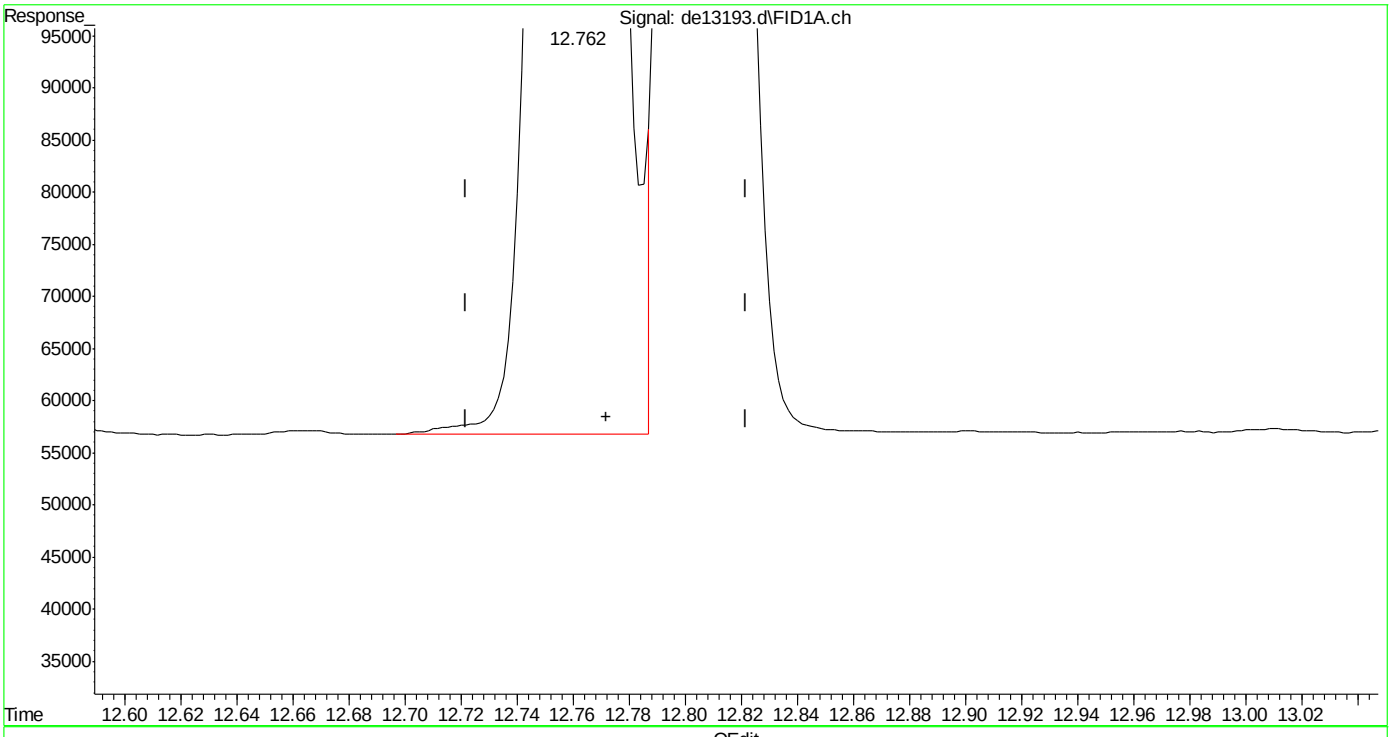
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : 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

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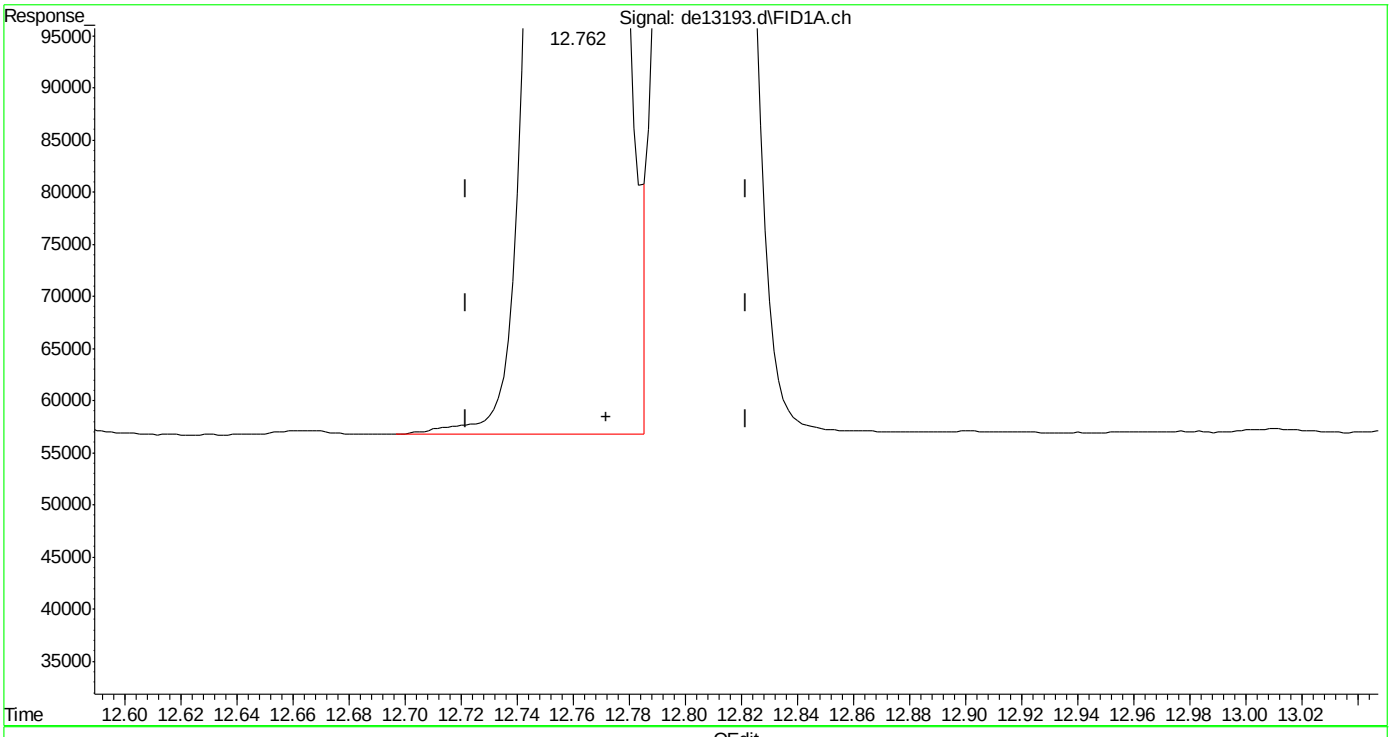
Quantitation Report (Qedit)

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 4.921 µg/ml m
response 484563

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:21 2016

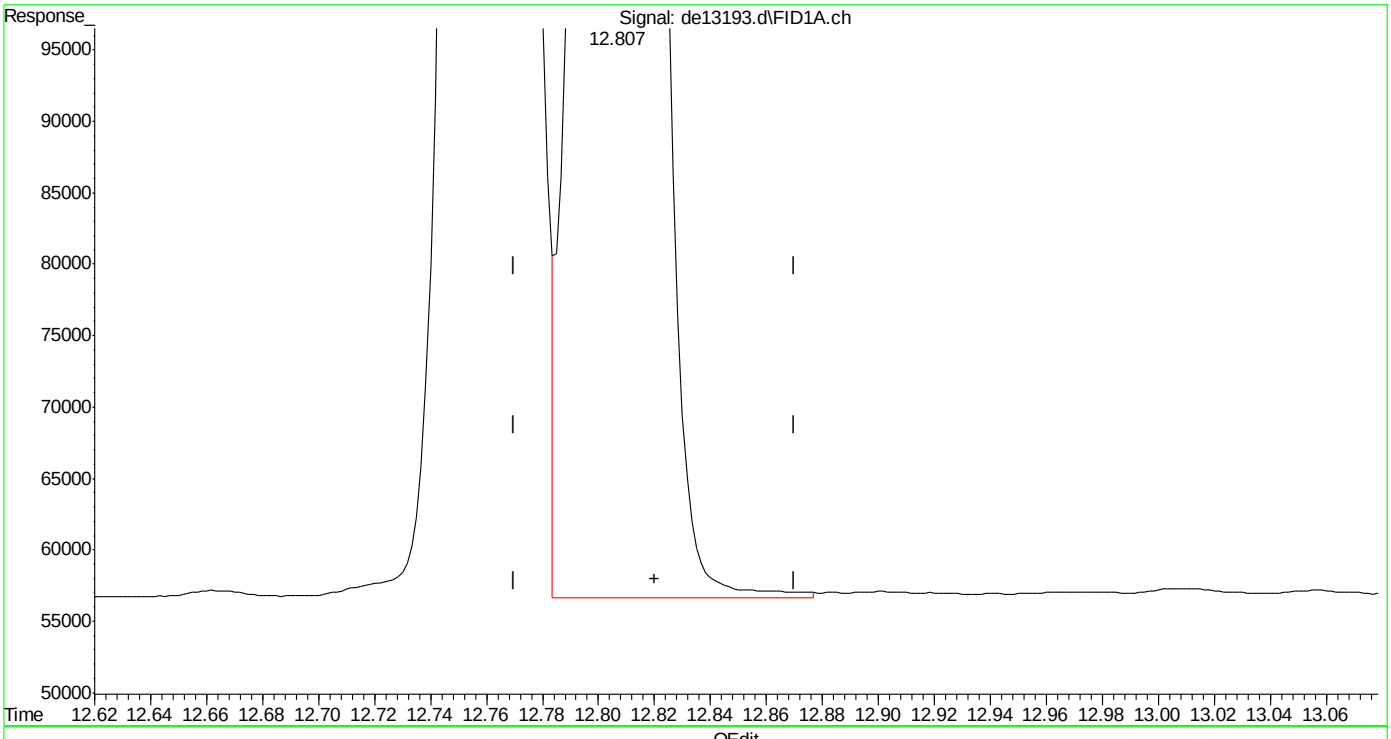
SGS ACCUTEST MC45611

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

EPH160204M.M Fri Feb 05 10:43:45 2016

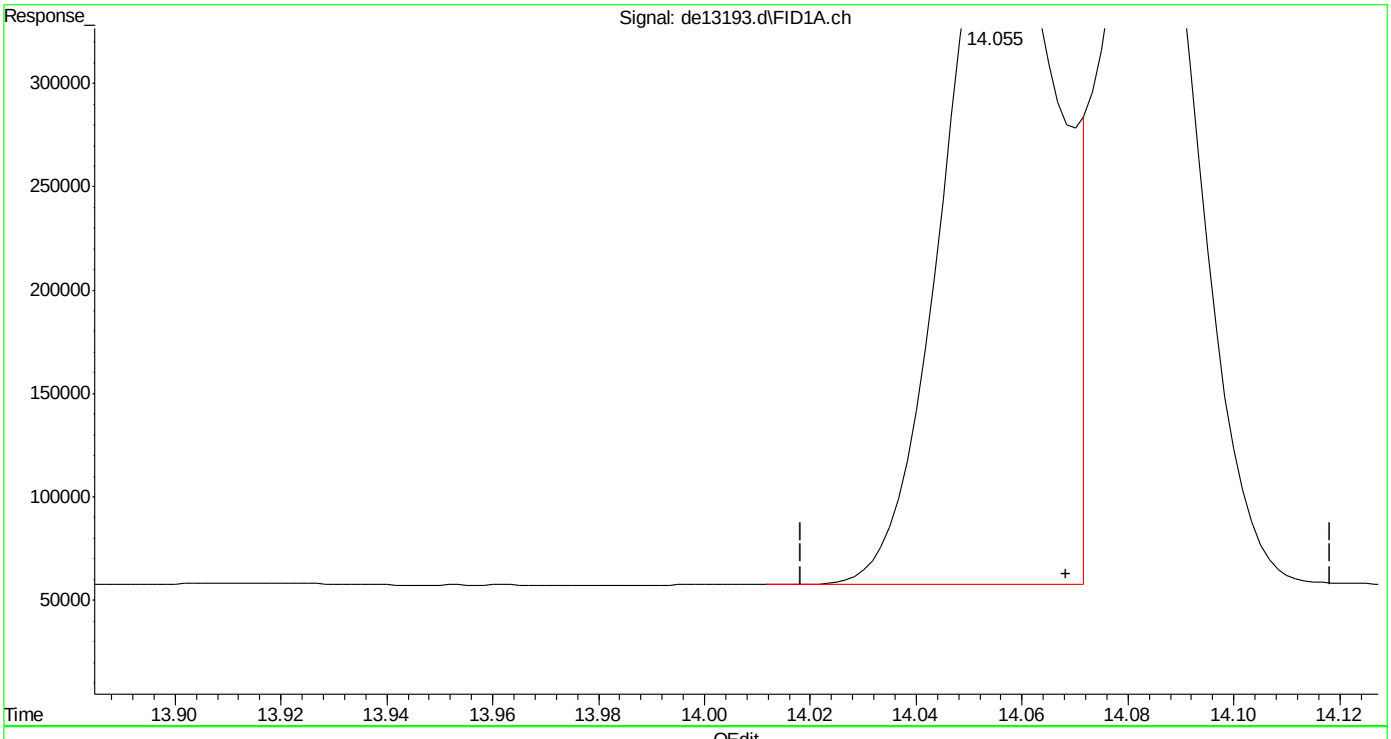
SGS ACCUTEST MC45611

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

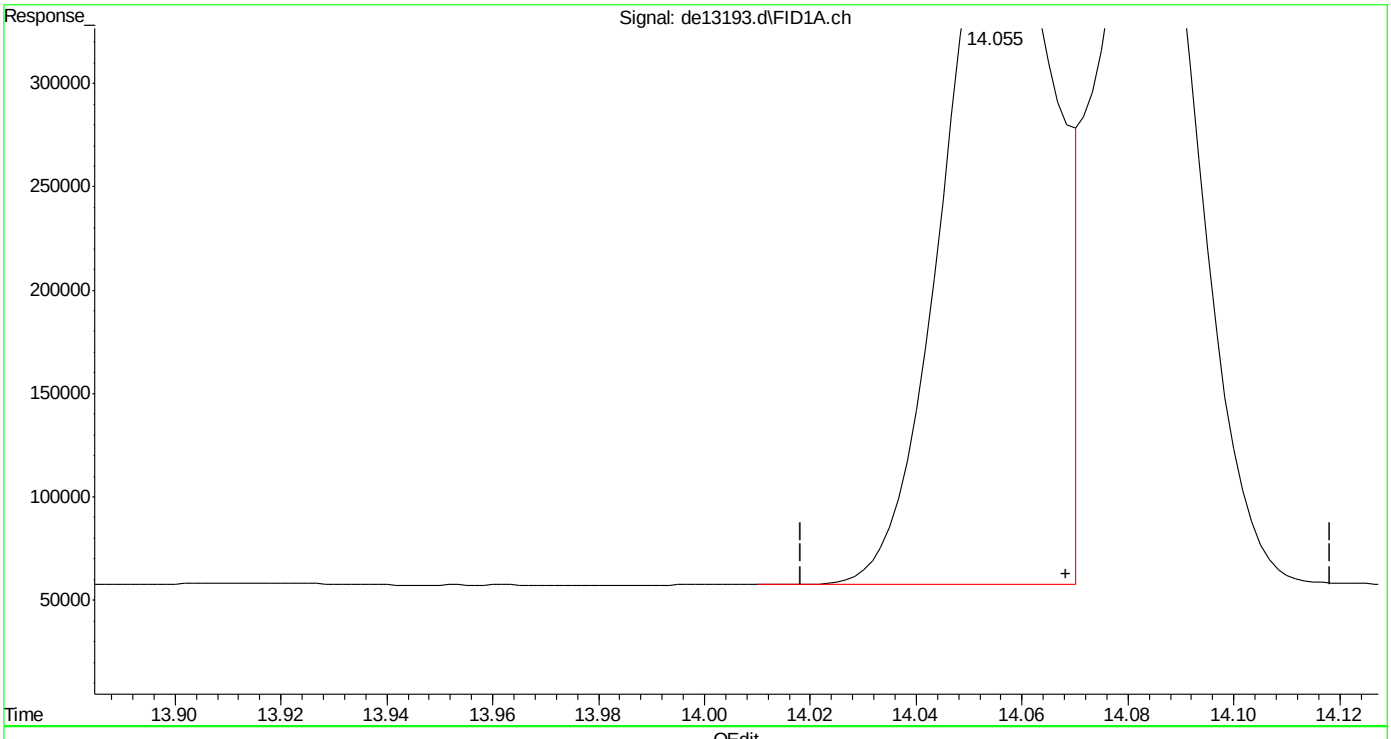
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:50 2016

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

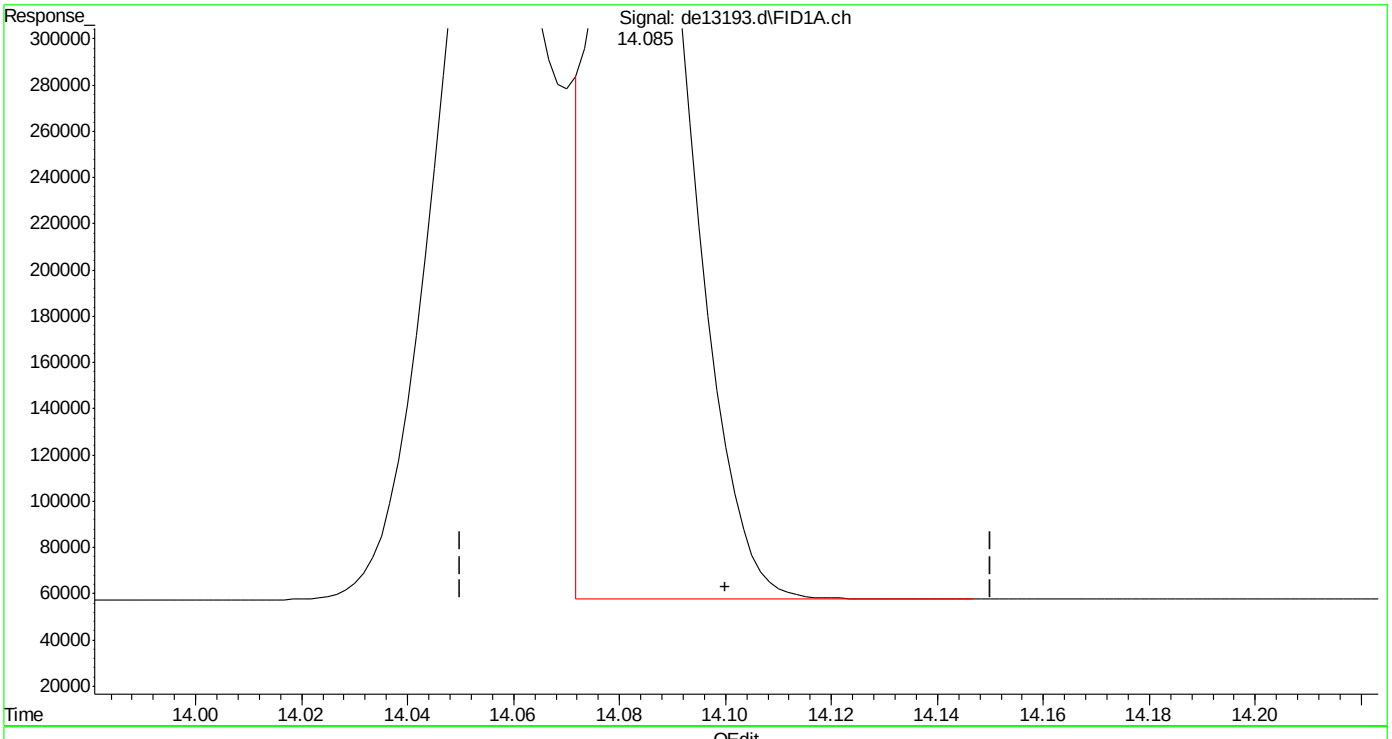
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:57 2016

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

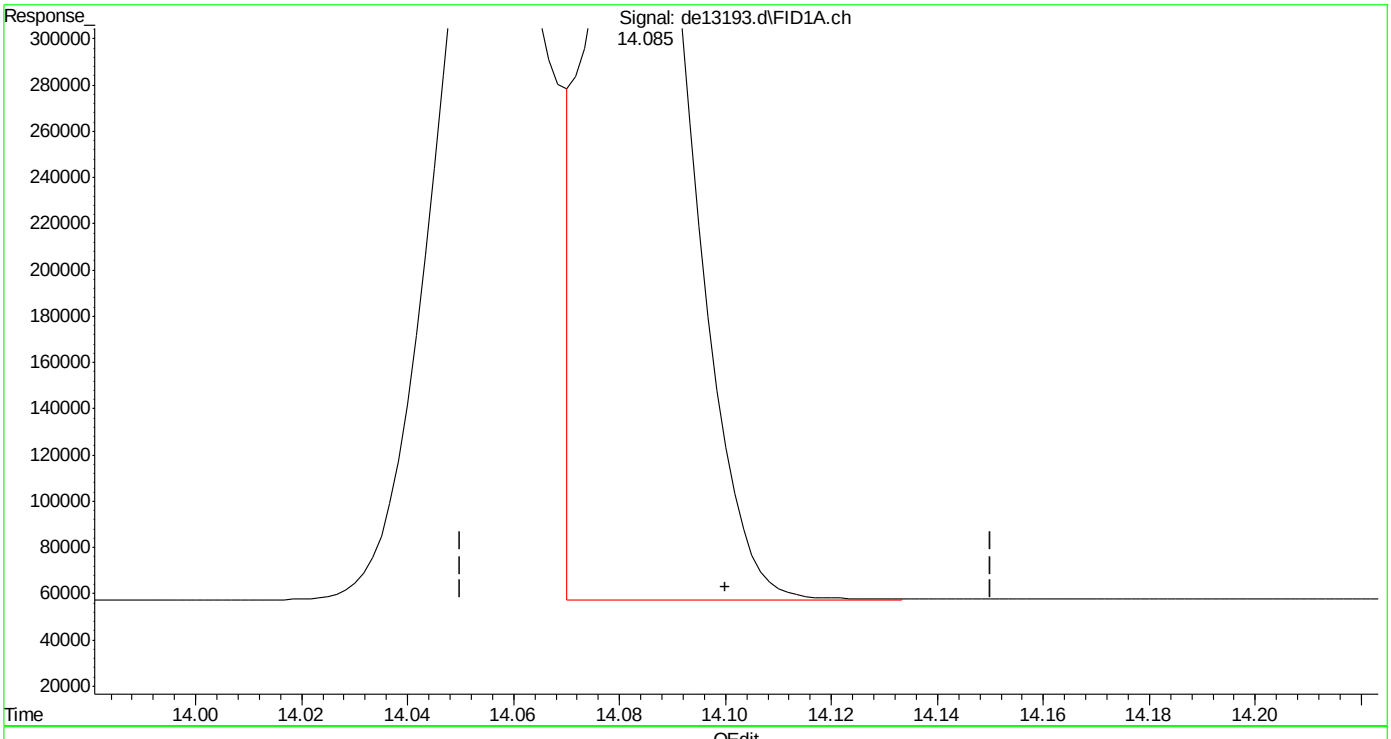
SGS ACCUTEST MC45611

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

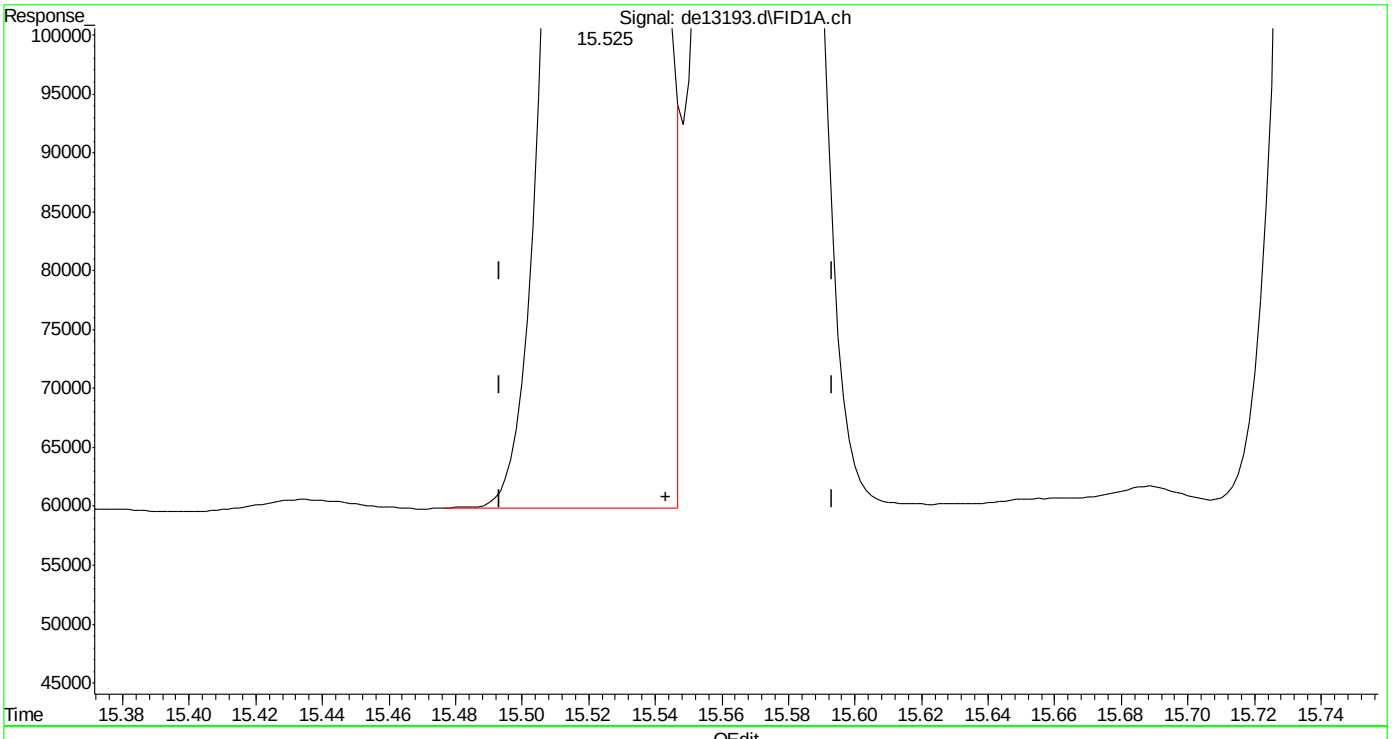
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:13 2016

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

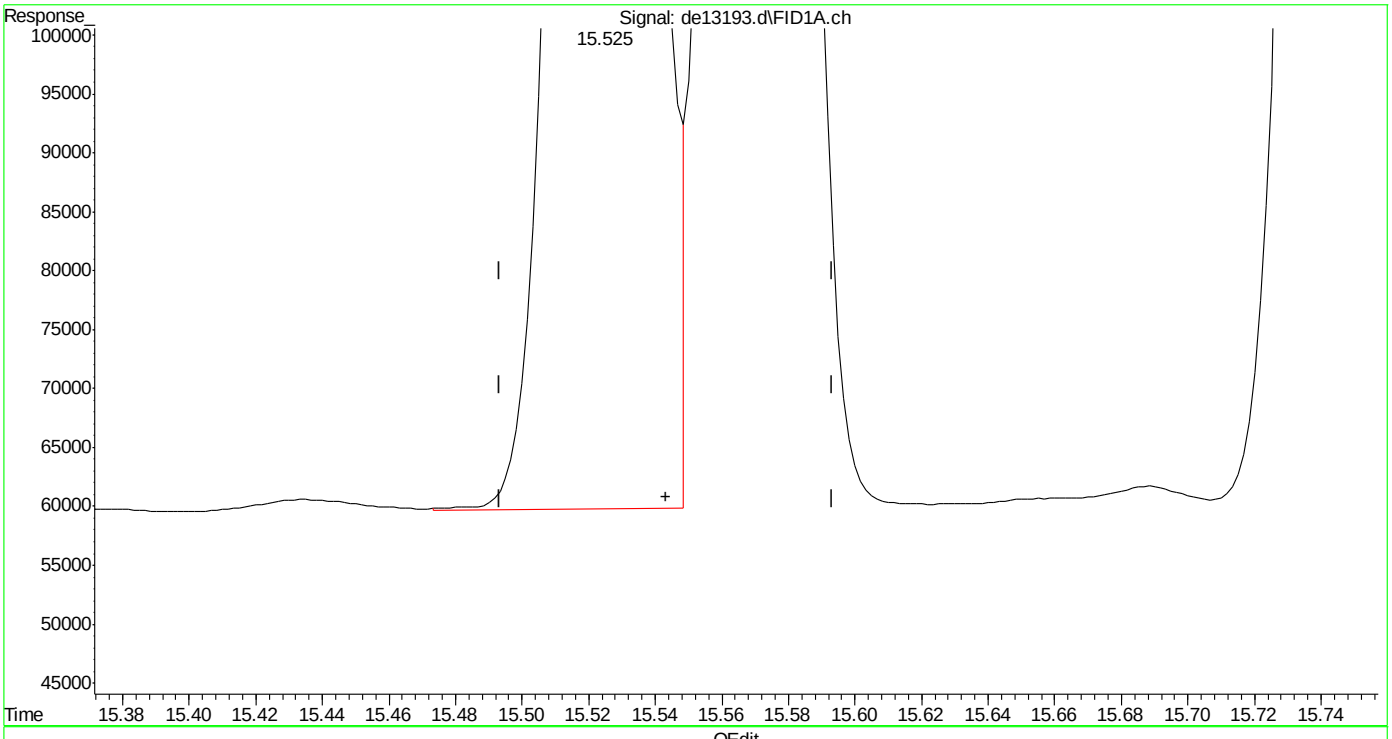
(+) = Expected Retention Time

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

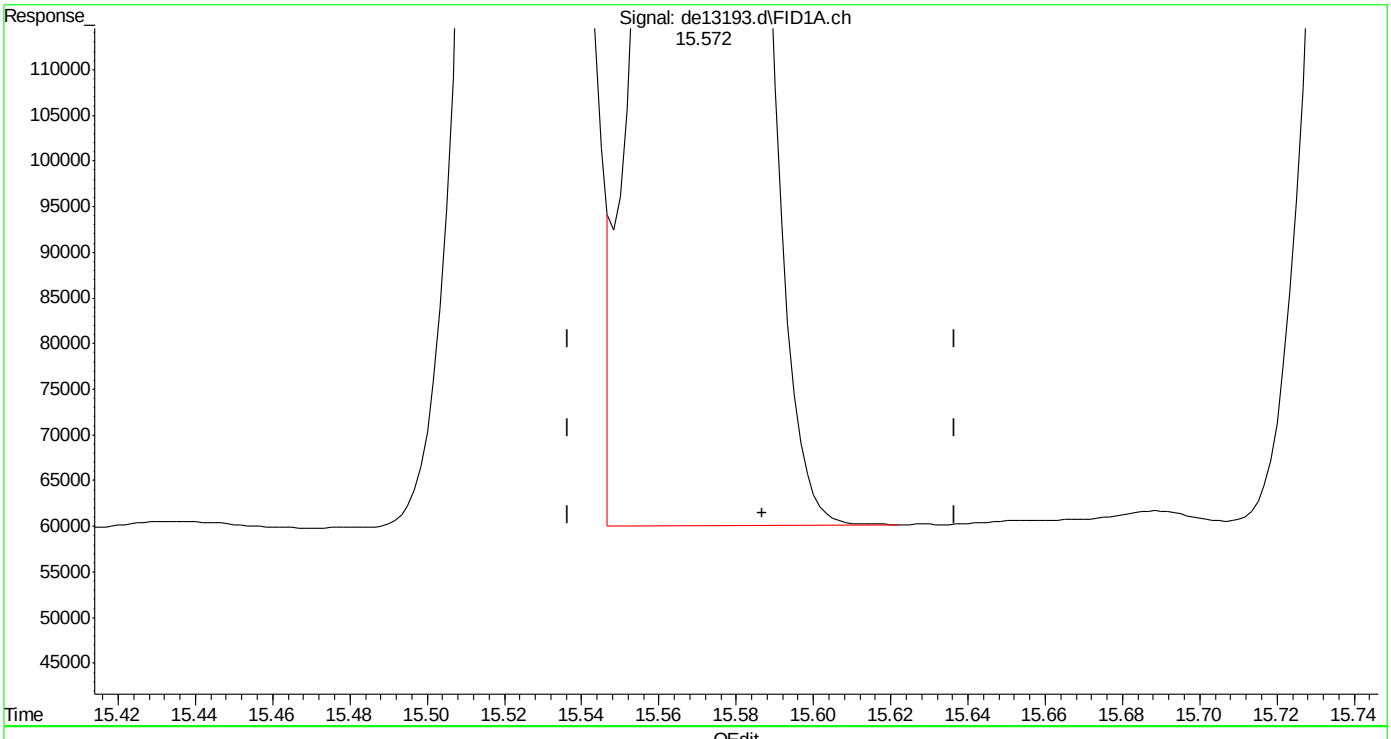
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.572min 5.000 µg/ml
response 468978

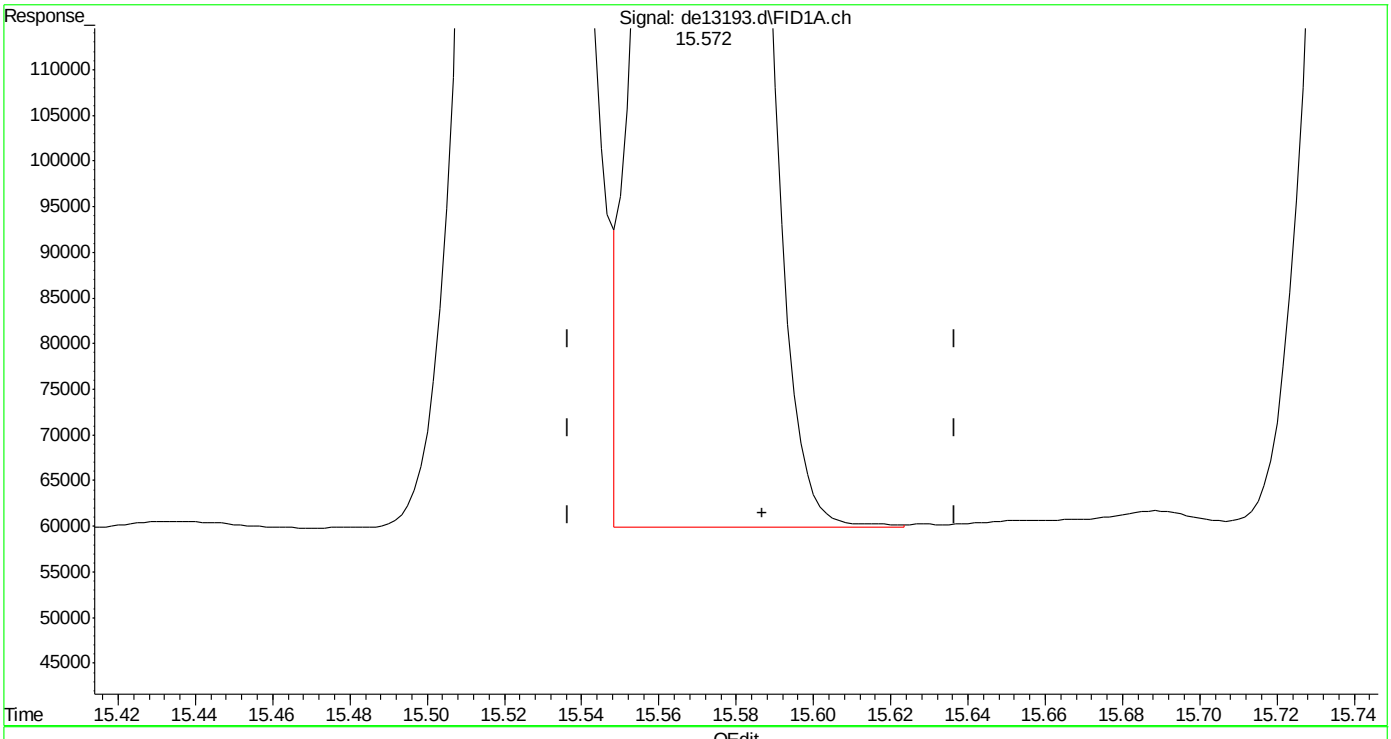
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.572min 4.975 µg/ml m
response 466623

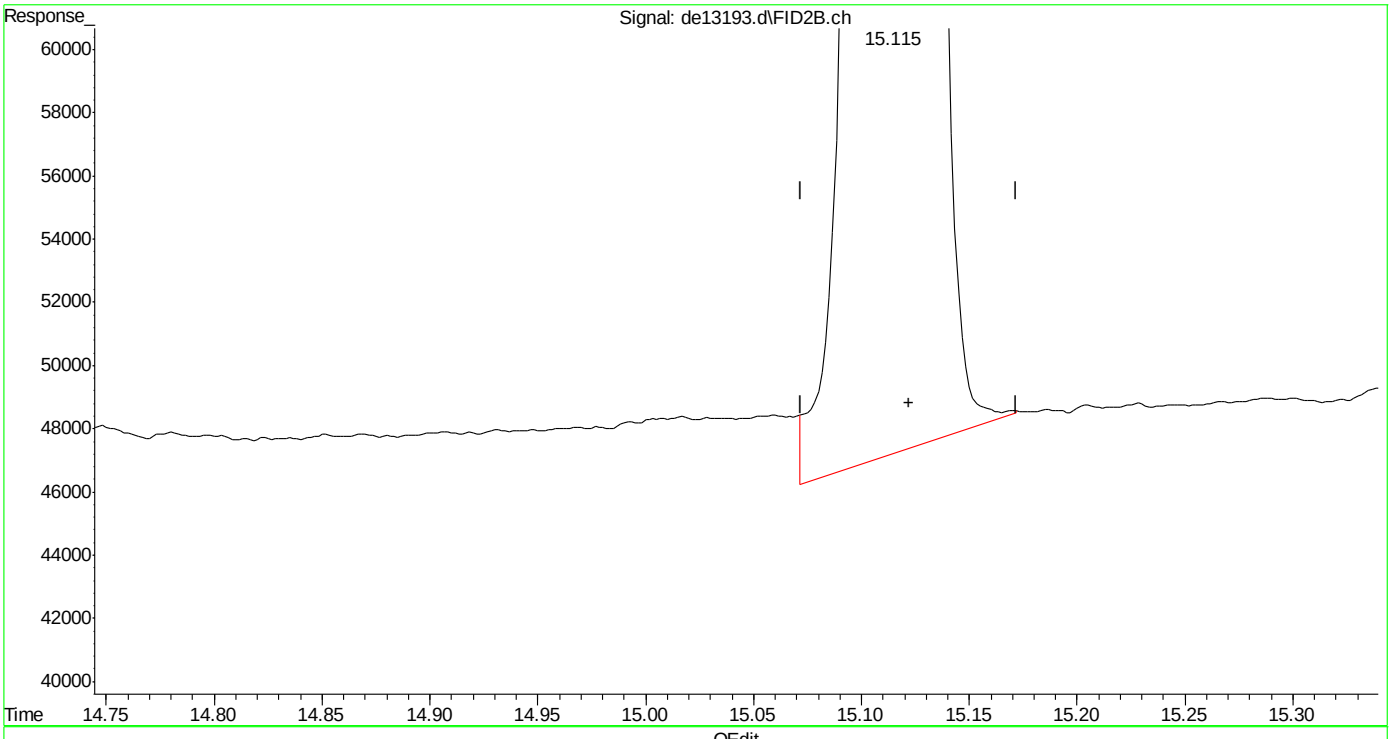
(+) = Expected Retention Time

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

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Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	1923499	20.264 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 101.32%#	
6) s 2-bromonaphthalene	7.532	1318220	20.454 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 102.27%#	
11) s o-terphenyl	10.080	2144067	20.565 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 102.83%#	
35) s 1-chlorooctadecane	11.248	1182336	20.984 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 104.92%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36131366	22.235 µg/mlm
2) naphthalene	5.352	2162719	20.282 µg/ml
3) 2-methylnaphthalene	6.250	2136209	20.220 µg/ml
5) acenaphthylene	7.368	2106441	20.279 µg/ml
7) acenaphthene	7.610	2170607	20.454 µg/ml
8) fluorene	8.253	2130652	20.455 µg/ml
9) phenanthrene	9.437	2129143	20.500 µg/ml
10) anthracene	9.493	2038508	20.982 µg/ml
12) fluoranthene	10.945	2077039	20.389 µg/ml
13) pyrene	11.203	2089957	20.238 µg/ml
14) benzo(a)anthracene	12.763	2002764	20.461 µg/ml
15) chrysene	12.812	2022589	20.496 µg/ml
16) benzo(B)fluoranthene	14.060	2094779	20.856 µg/mlm
17) benzo(k)fluoranthene	14.090	1953249	20.187 µg/mlm
18) benzo(a)pyrene	14.395	1927552	20.332 µg/ml
19) indeno(1,2,3-cd)pyrene	15.532	1948257	19.991 µg/ml
20) dibenzo(ah)anthracene	15.577	1933263	20.726 µg/ml
21) benzo(ghi)perylene	15.753	1916075	20.362 µg/ml
25) h c-9	2.680	1587594	20.952 µg/mlm
26) h c-10	3.833	1597831	20.904 µg/ml
27) naphthalene #2	5.512	1701488	21.332 µg/ml
28) c-12	5.687	1581613	20.810 µg/ml
29) 2-methylnaphthalene #2	6.405	1698114	20.825 µg/ml
30) c-14	7.203	1563771	20.568 µg/ml
31) c-16	8.532	1537180	20.338 µg/ml
32) c-18	9.727	1515877	20.257 µg/ml
33) c-19	10.282	1500139	20.556 µg/ml
34) c-20	10.813	1468089	20.532 µg/ml
36) c-22	11.808	1451343	20.601 µg/ml
37) c-24	12.727	1351453	20.219 µg/ml

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

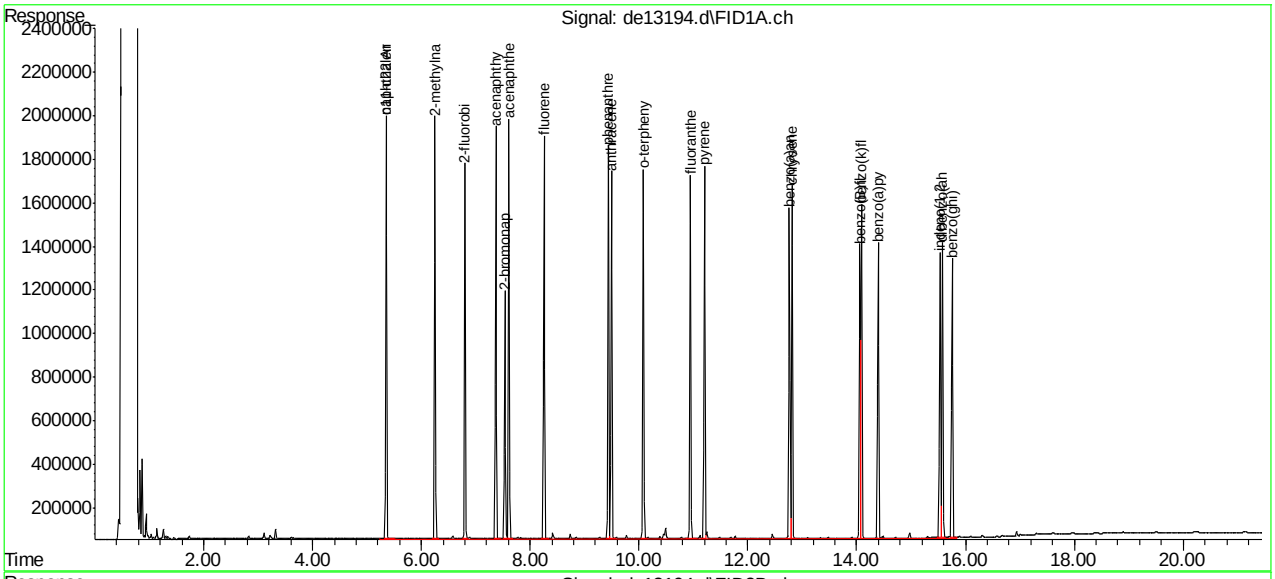
(f)=RT Delta > 1/2 Window (m)=manual int.

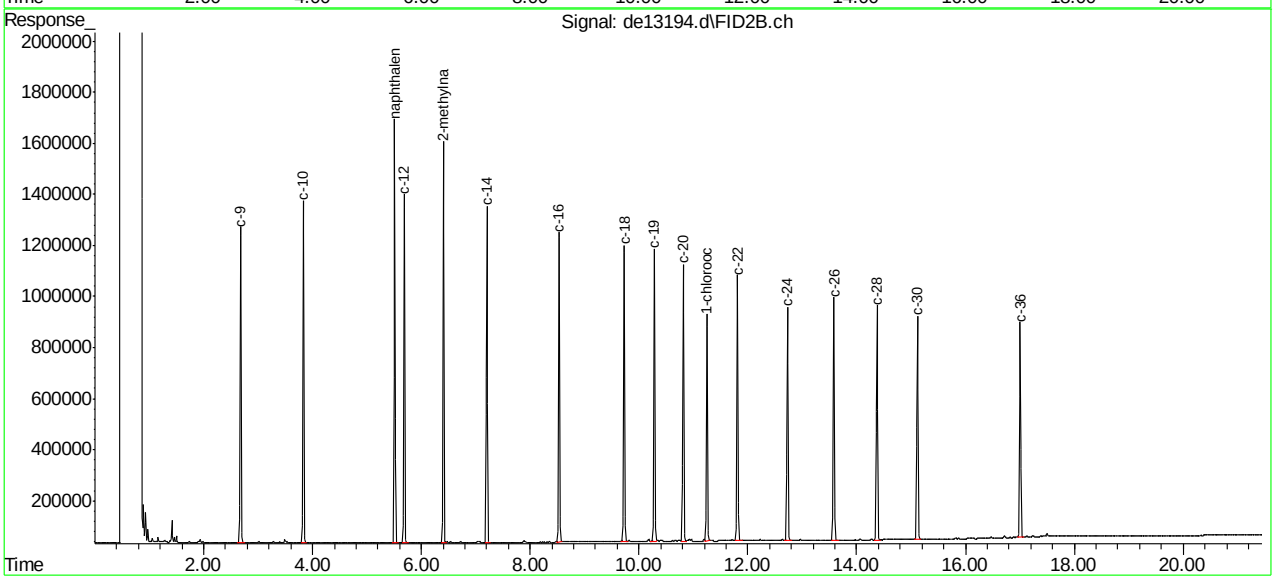
Quantitation Report (QT Reviewed)

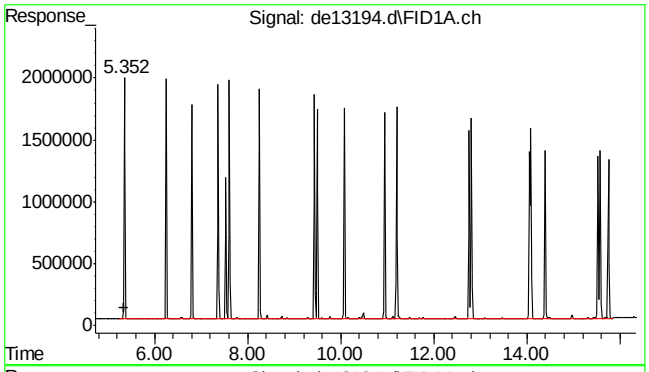
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

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 :

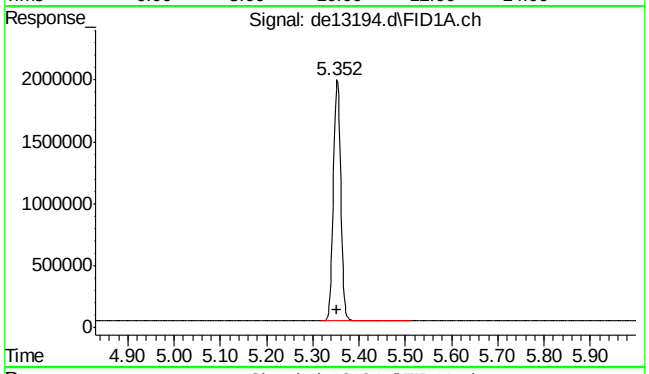






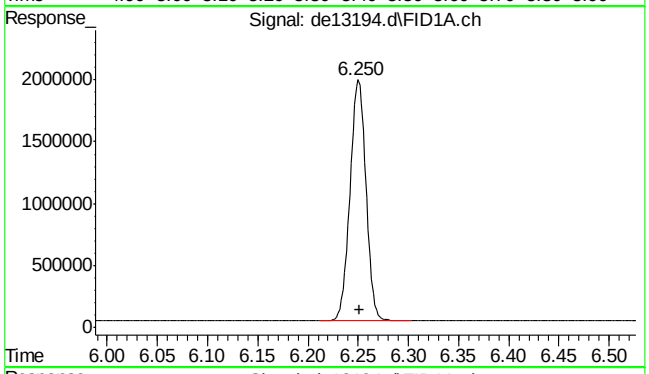
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



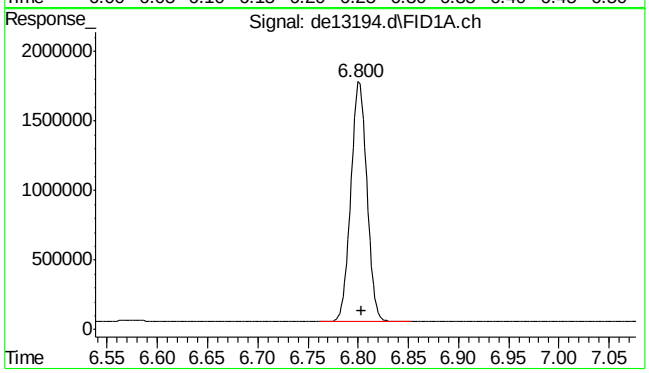
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



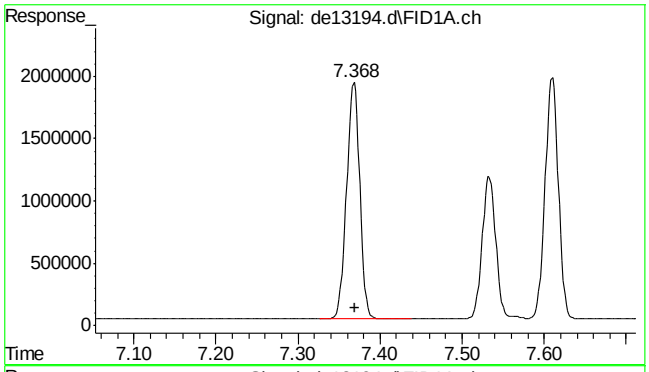
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



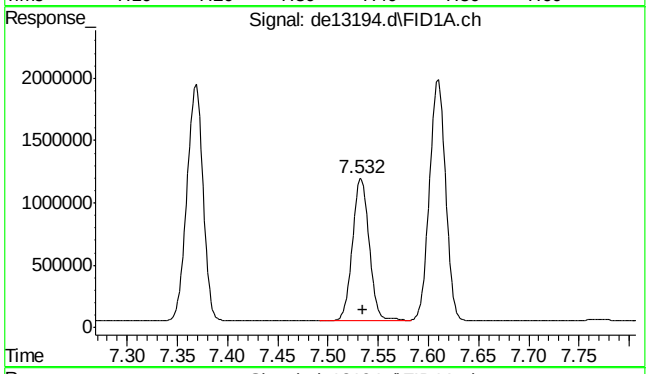
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml



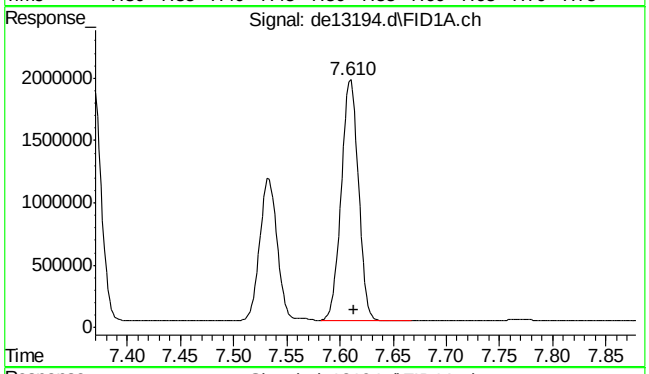
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



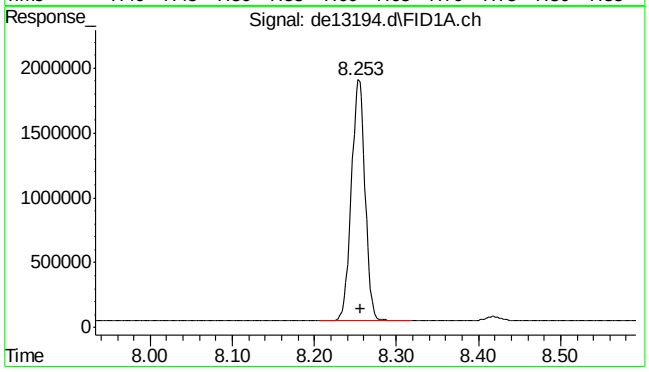
#6 2-bromonaphthalene

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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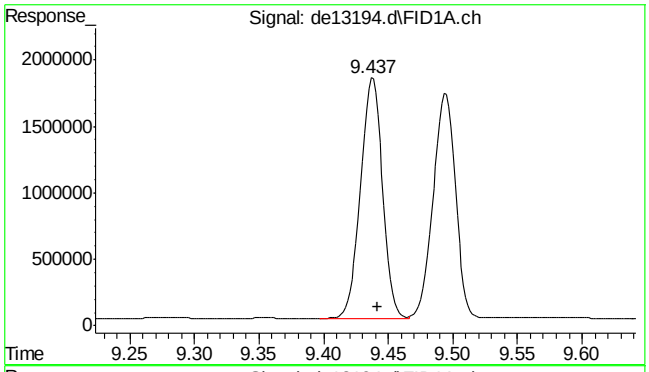
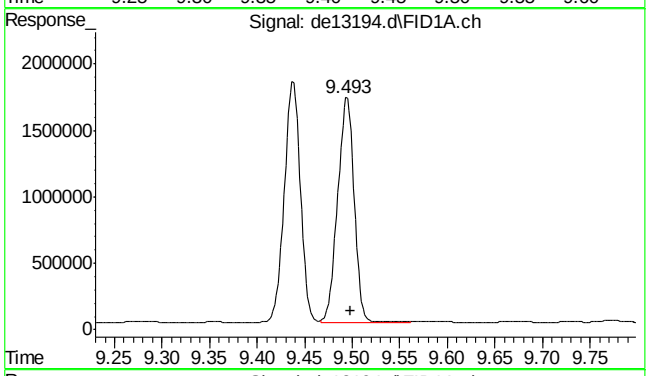


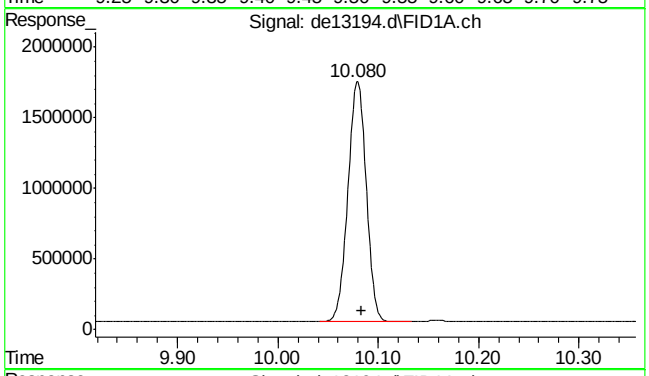
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



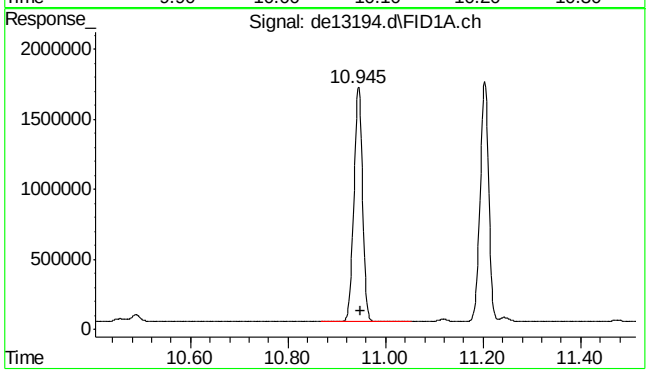
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



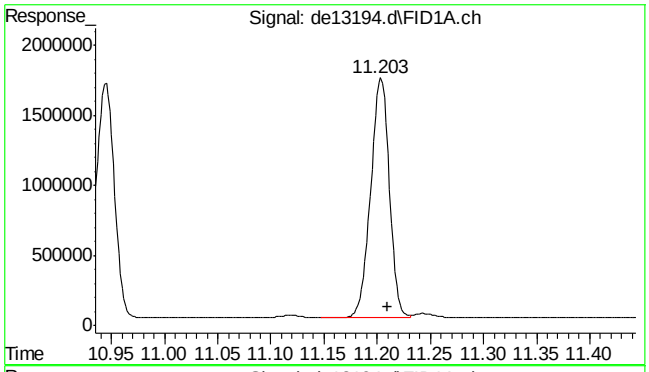
#11 o-terphenyl

R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



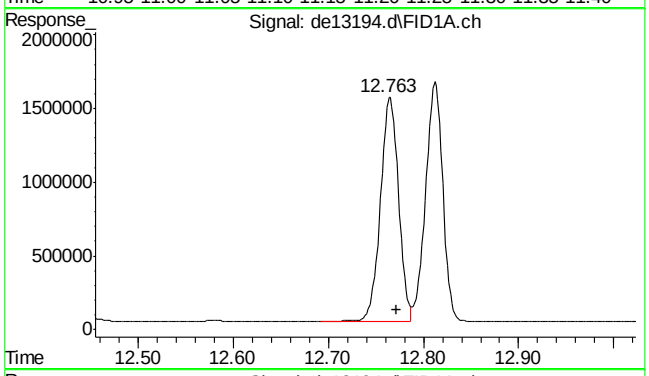
#12 fluoranthene

R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml



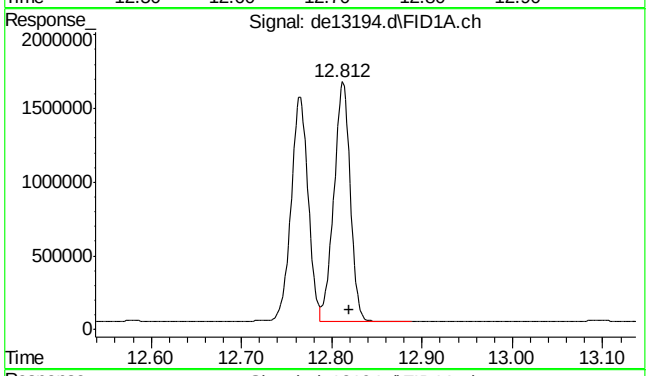
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



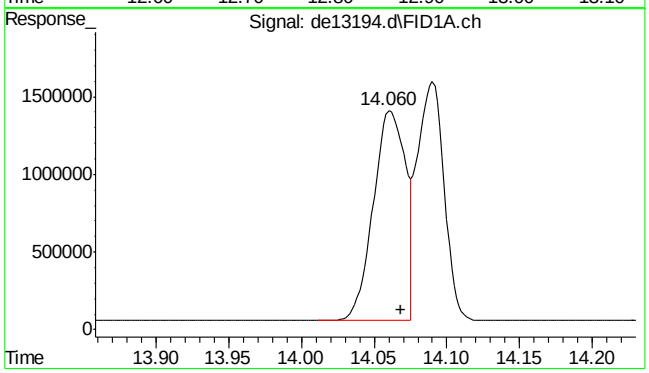
#14 benzo(a)anthracene

R.T.: 12.763 min
Delta R.T.: -0.008 min
Response: 2002764
Conc: 20.46 µg/ml



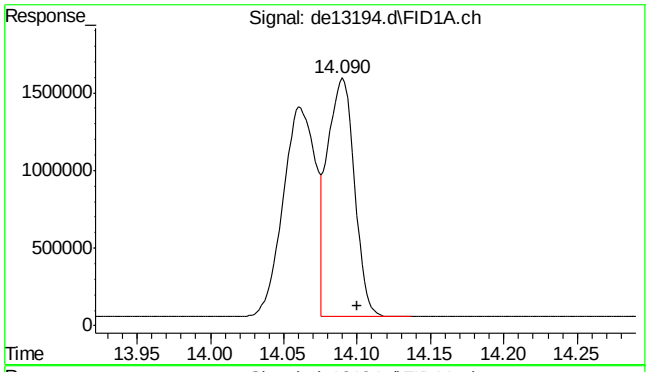
#15 chrysene

R.T.: 12.812 min
Delta R.T.: -0.008 min
Response: 2022589
Conc: 20.50 µg/ml



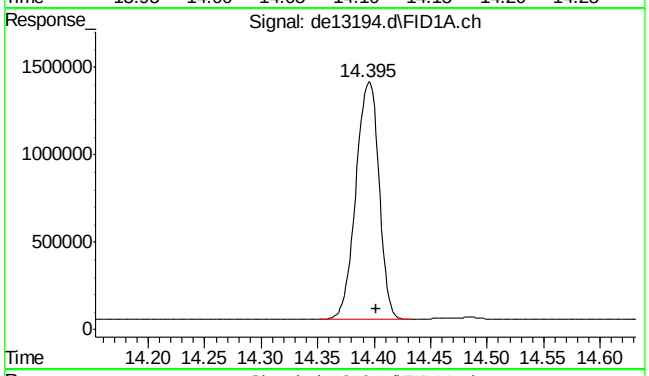
#16 benzo(B)fluoranthene

R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m



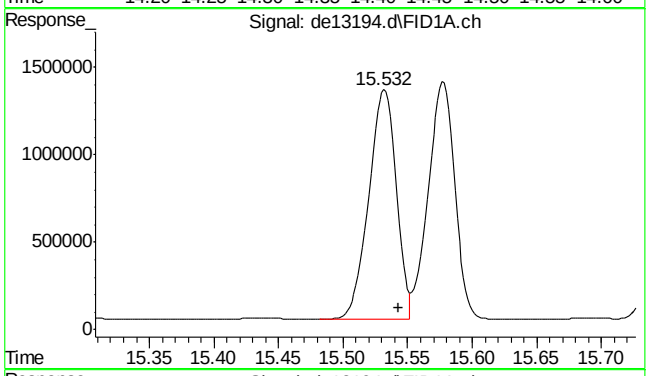
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



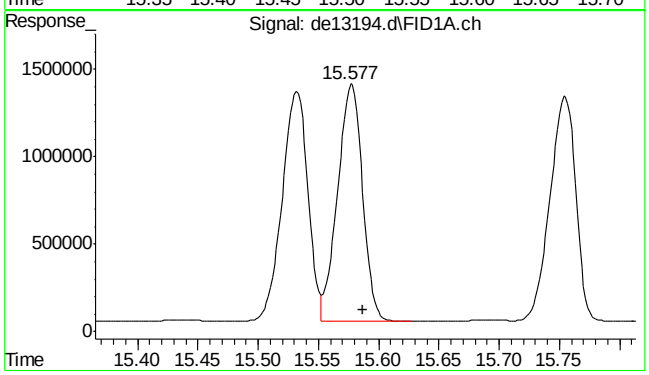
#18 benzo(a)pyrene

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

9.5.4

9

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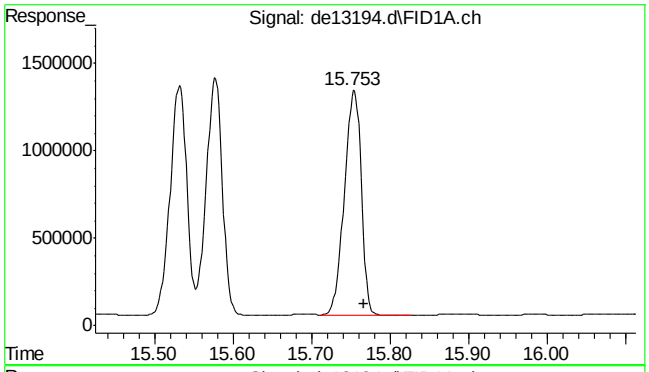
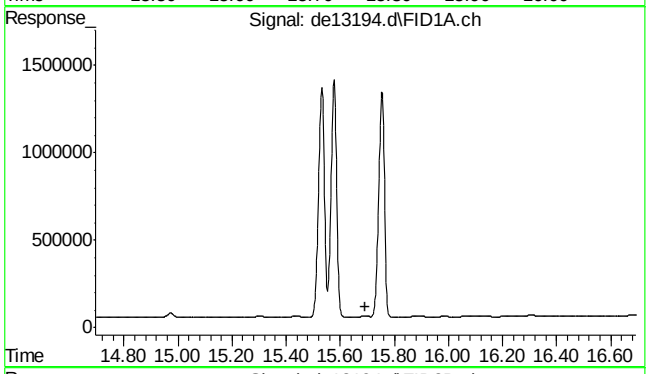


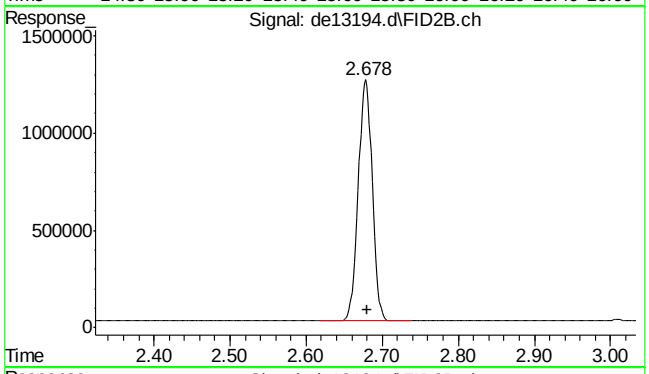
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



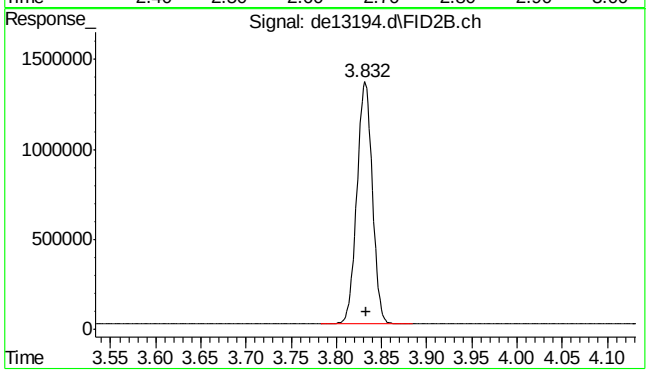
#22 bht

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



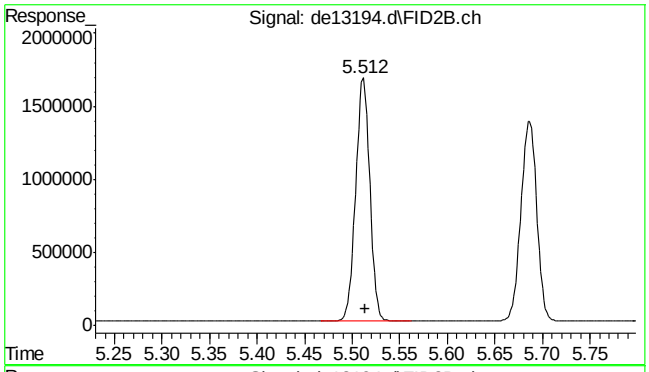
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.5.4

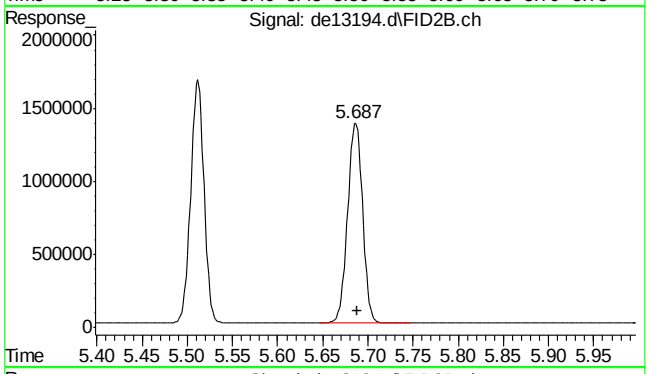
9

SGS ACCUTEST MC45611



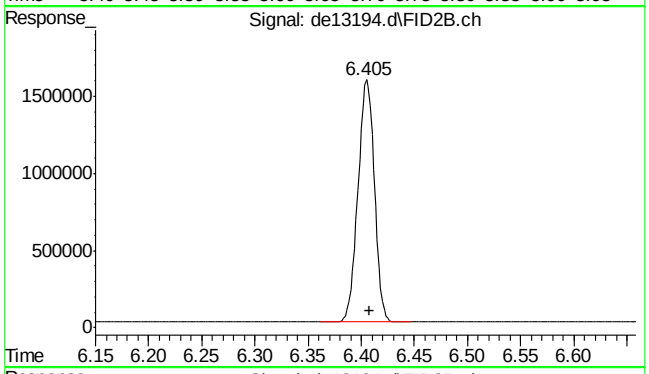
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



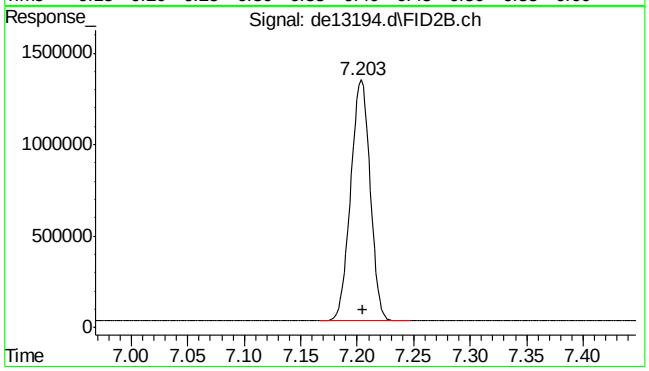
#28 c-12

R.T.: 5.687 min
Delta R.T.: -0.002 min
Response: 1581613
Conc: 20.81 µg/ml



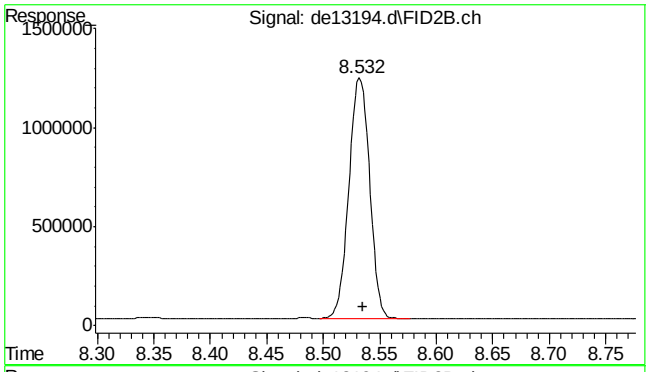
#29 2-methylnaphthalene #2

R.T.: 6.405 min
Delta R.T.: -0.003 min
Response: 1698114
Conc: 20.83 µg/ml



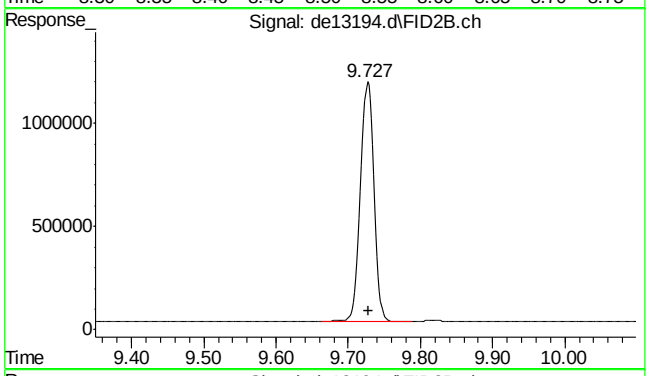
#30 c-14

R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml



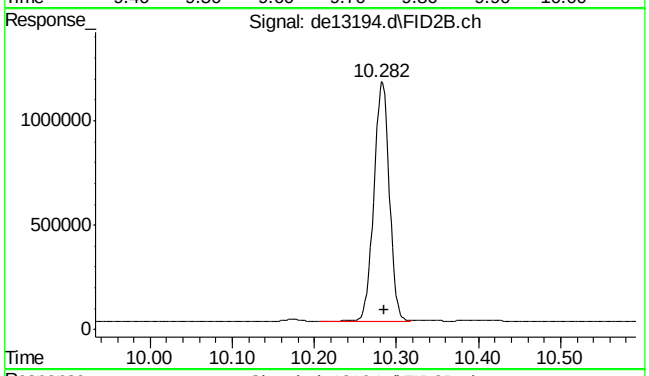
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



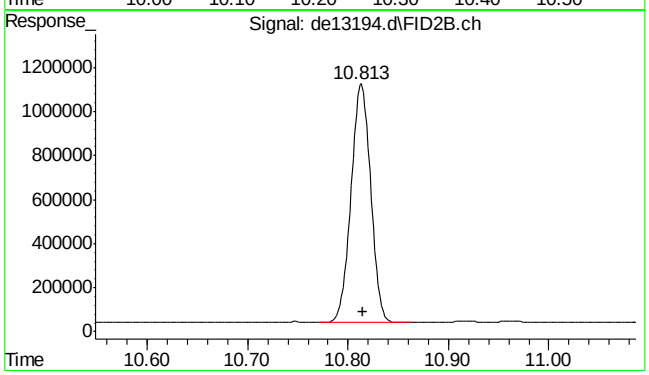
#32 c-18

R.T.: 9.727 min
Delta R.T.: -0.002 min
Response: 1515877
Conc: 20.26 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 1500139
Conc: 20.56 µg/ml



#34 c-20

R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

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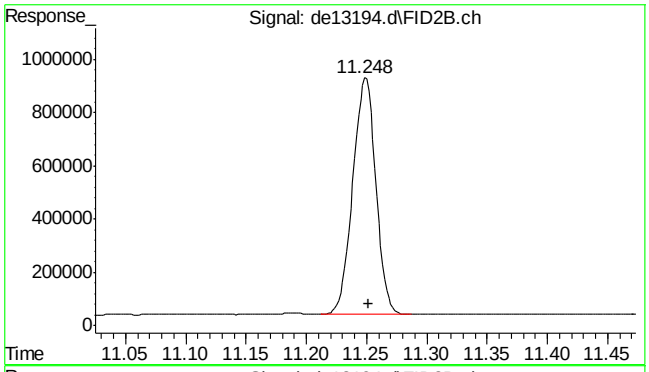
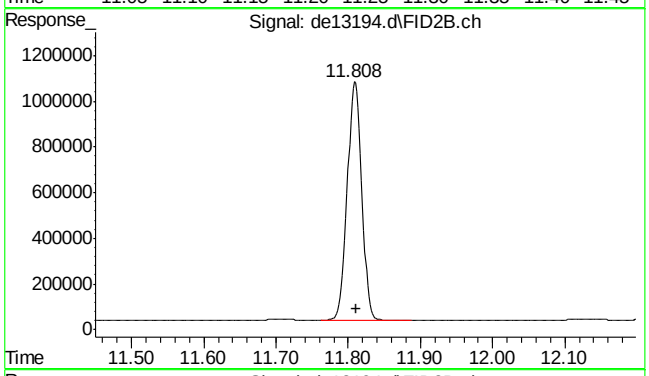


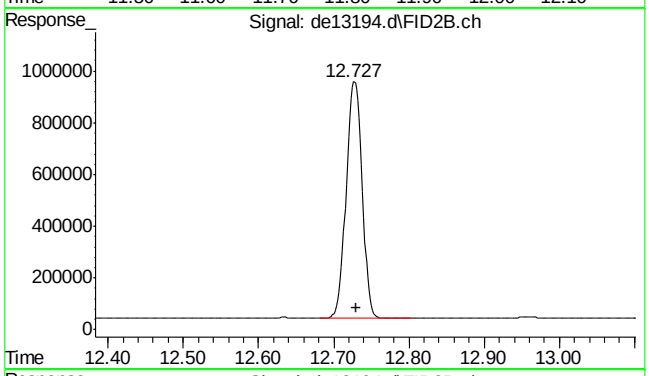
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



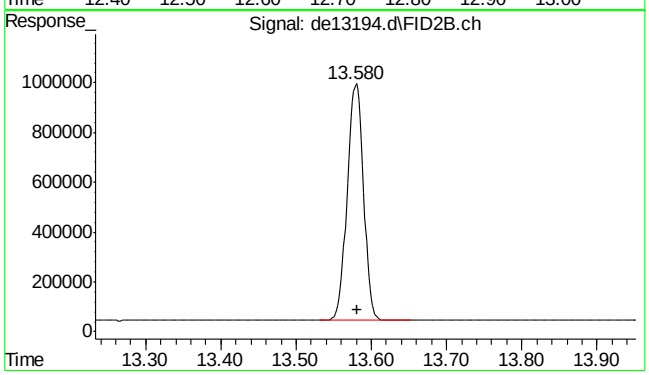
#36 c-22

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



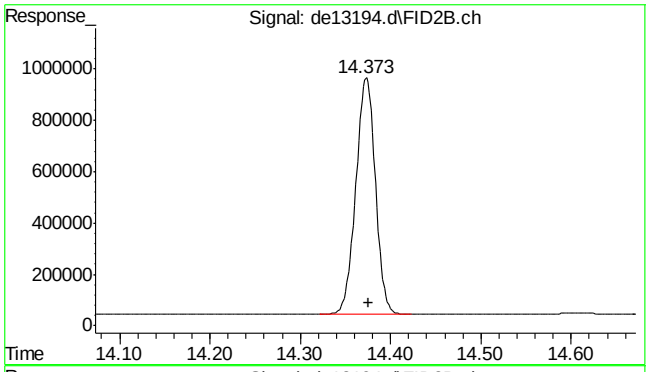
#38 c-26

R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml

9.5.4

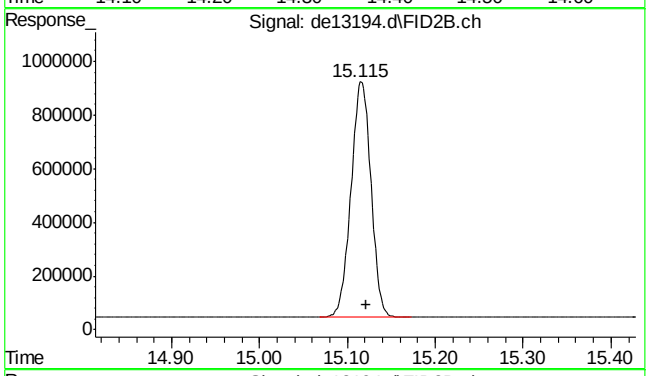
9

SGS ACCUTEST MC45611



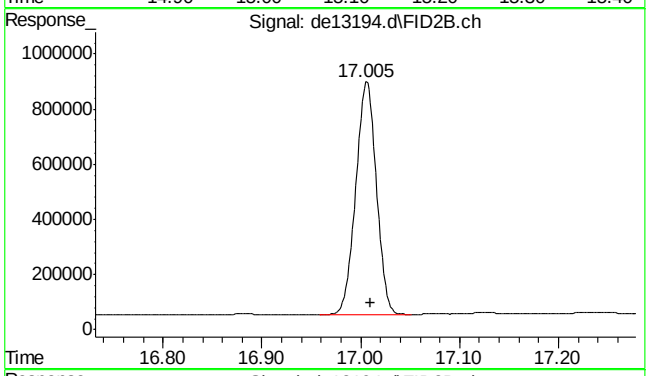
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



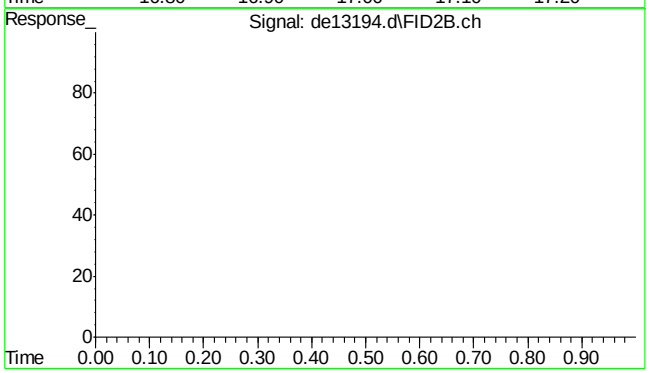
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 1377048
Conc: 20.03 µg/ml m



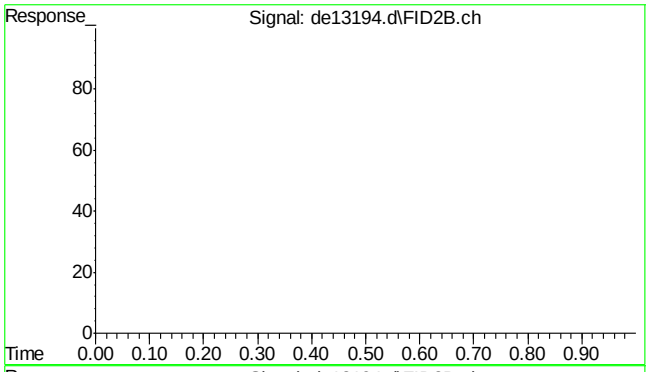
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 1222680
Conc: 20.01 µg/ml m



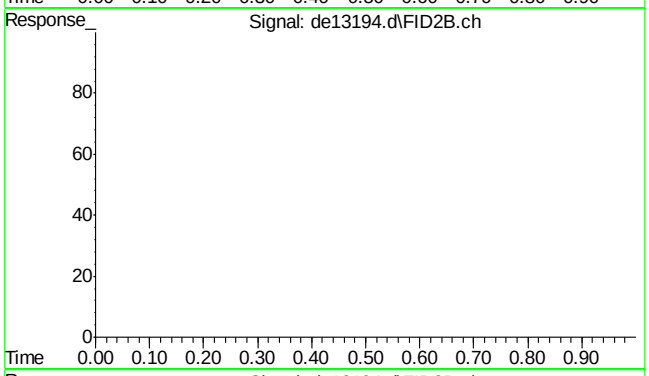
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



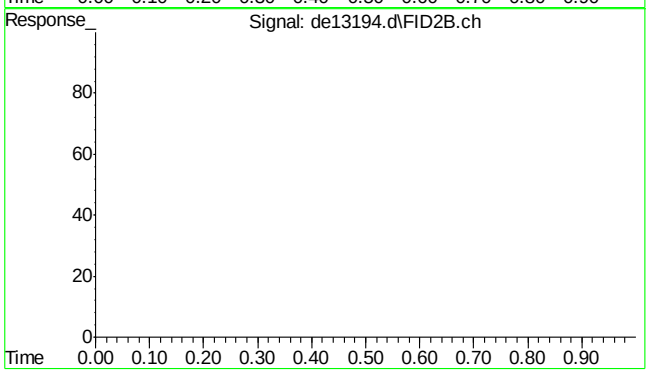
#43 bht

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

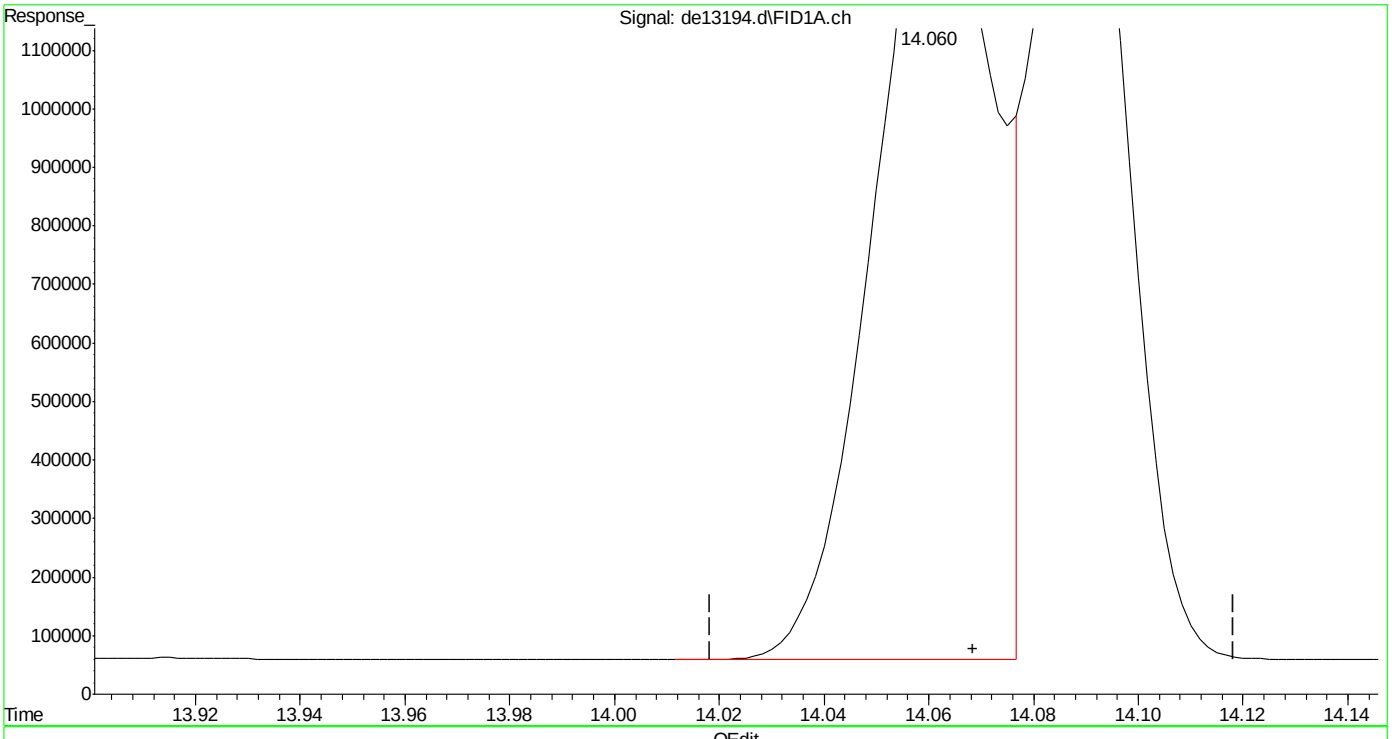
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

EPH160204M.M Fri Feb 05 10:50:25 2016

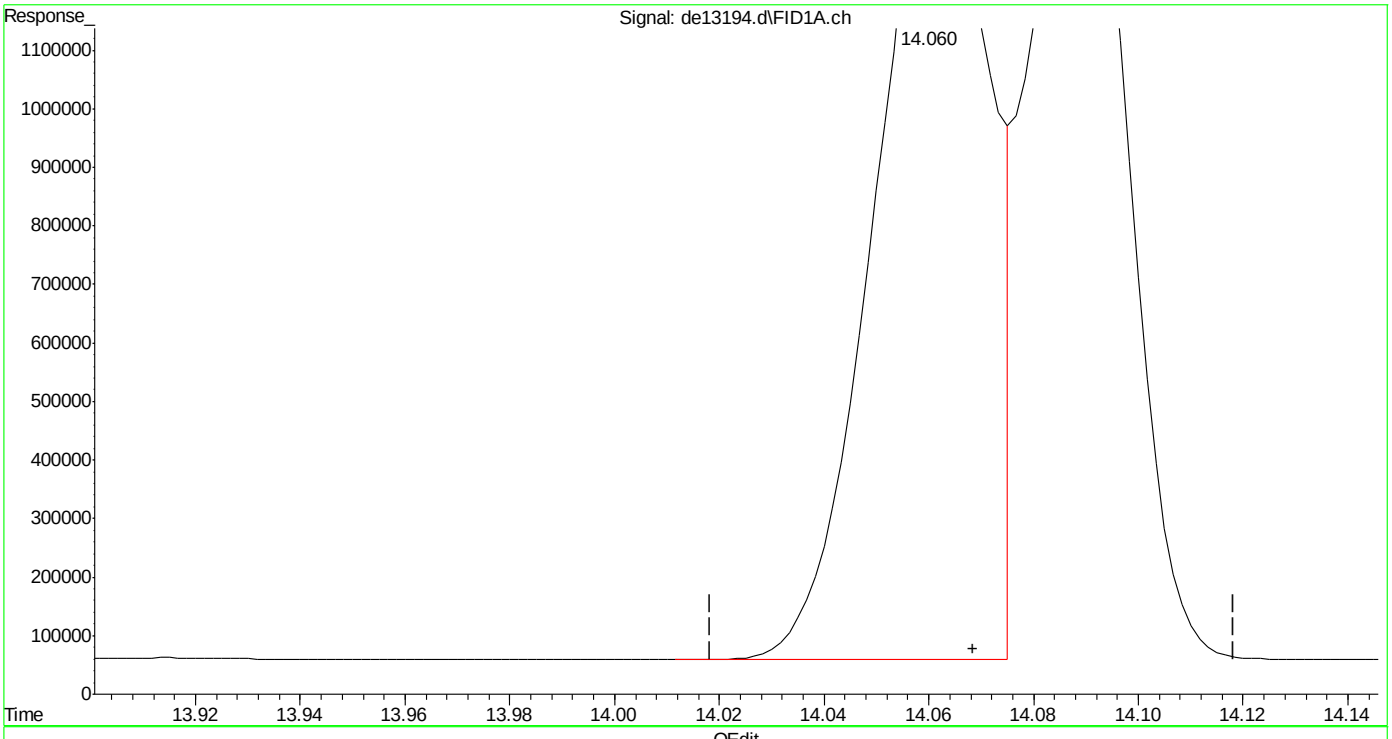
SGS ACCUTEST MC45611

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

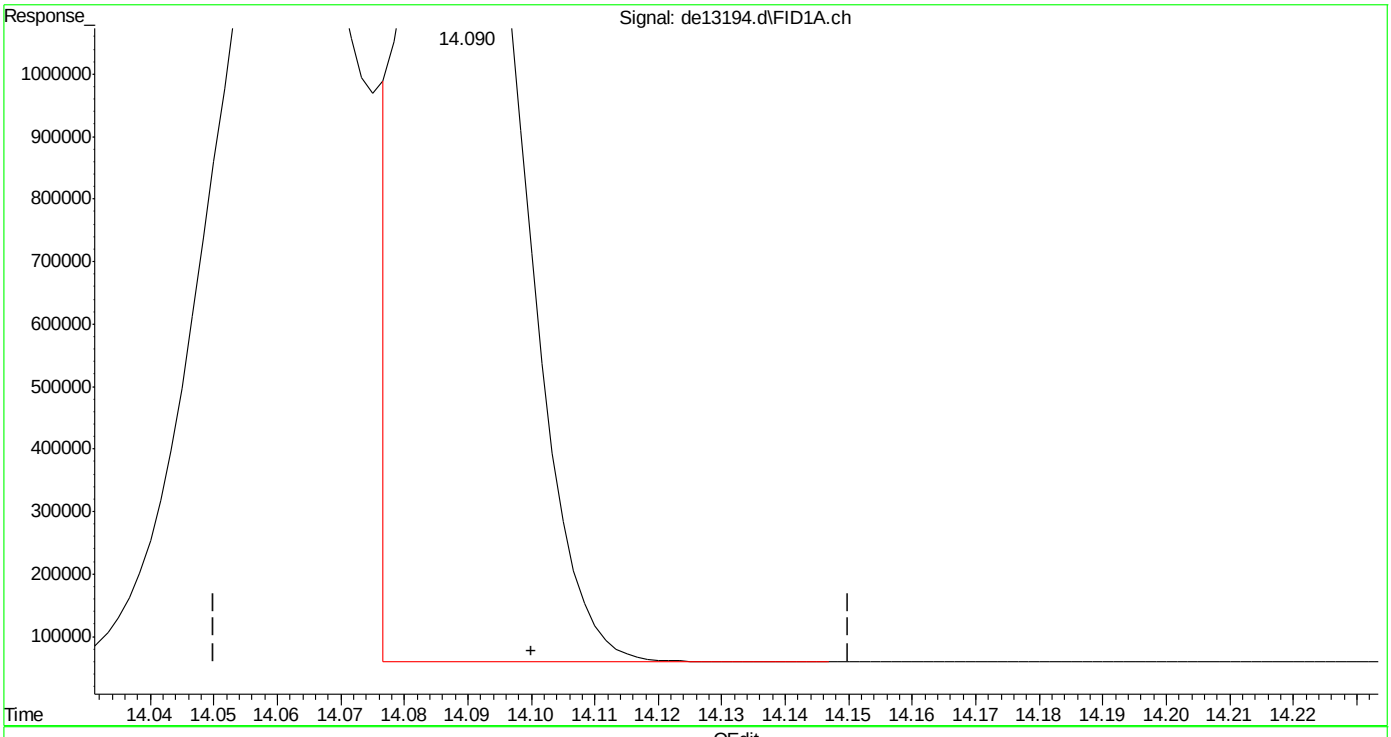
(+) = Expected Retention Time

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

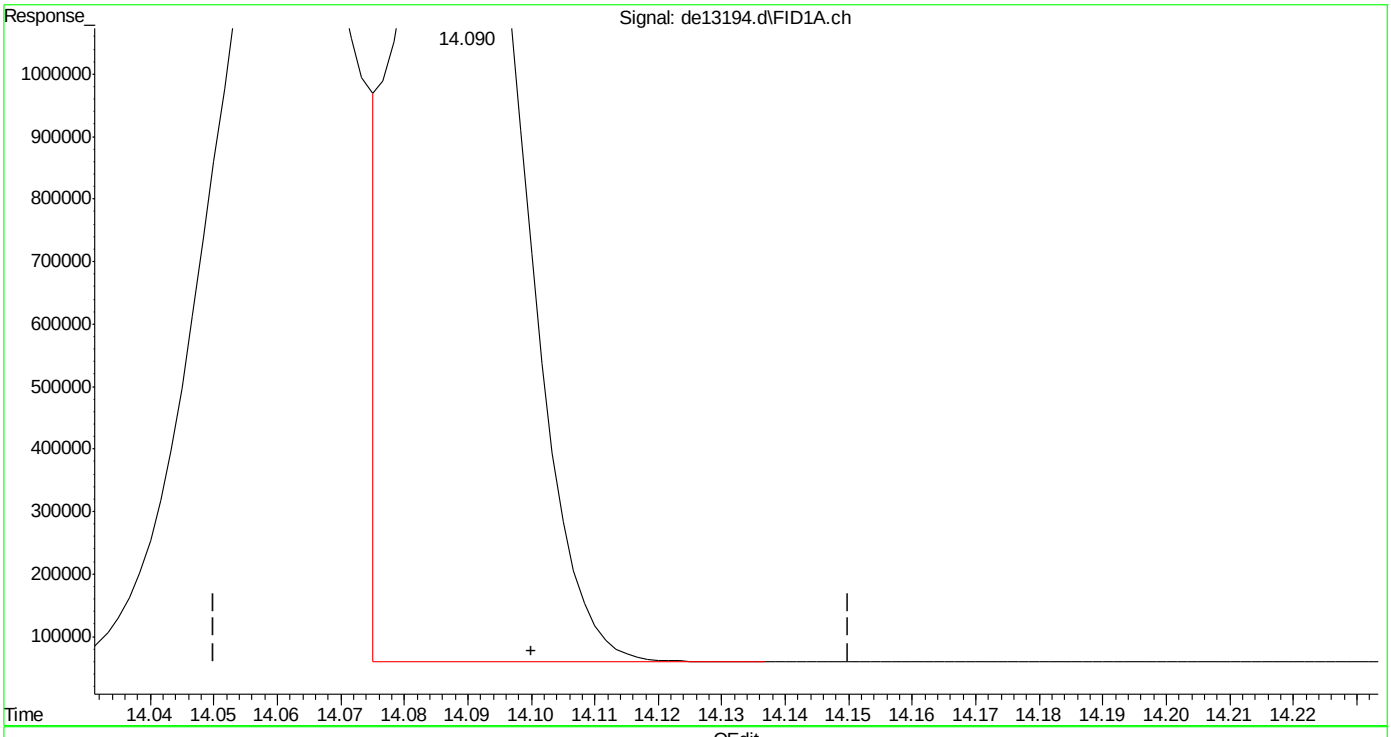
(+) = Expected Retention Time

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

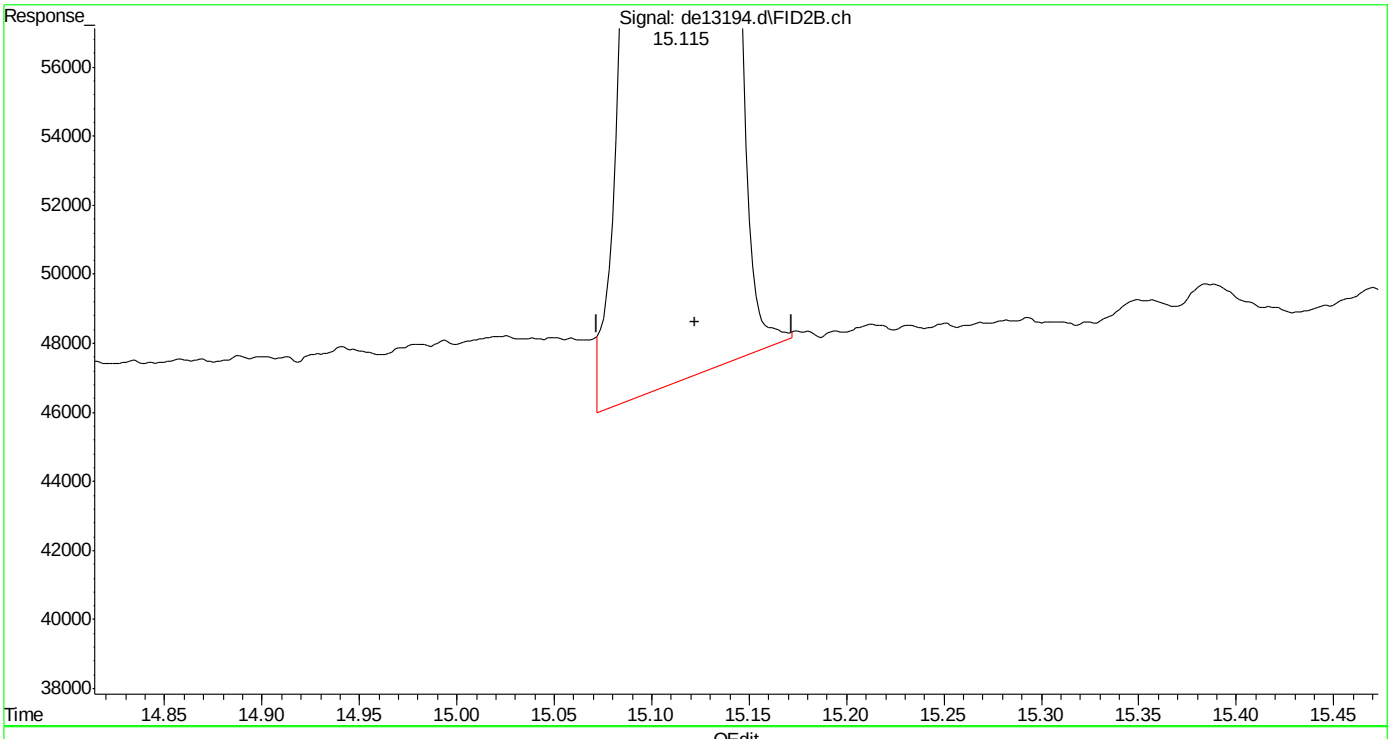
(+) = Expected Retention Time

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

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.

9.5.5

9

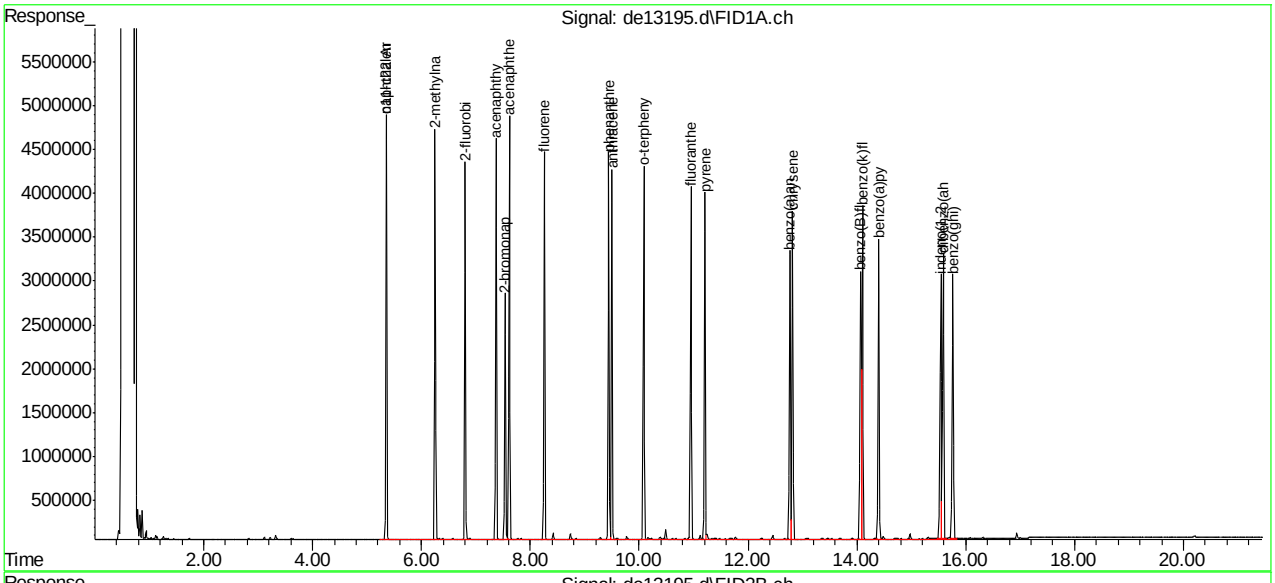
SGS ACCUTEST MC45611

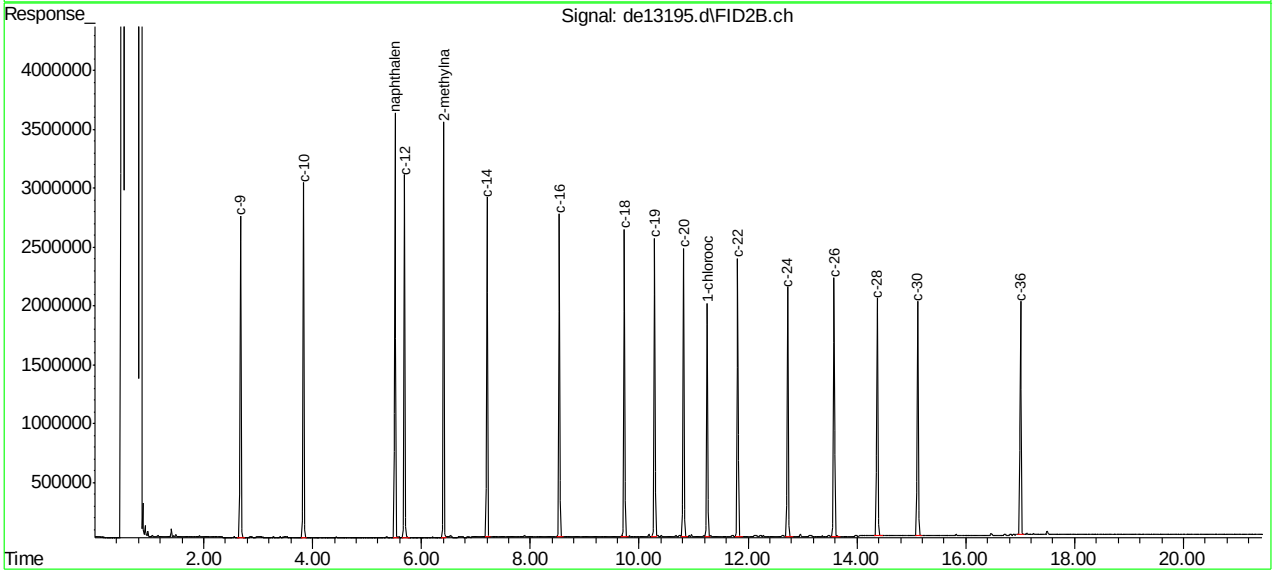
Quantitation Report (QT Reviewed)

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

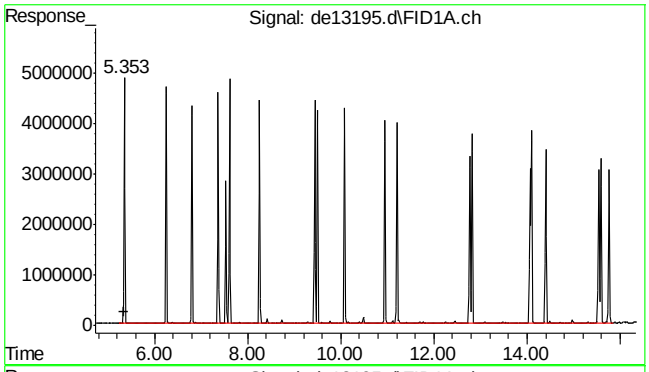
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



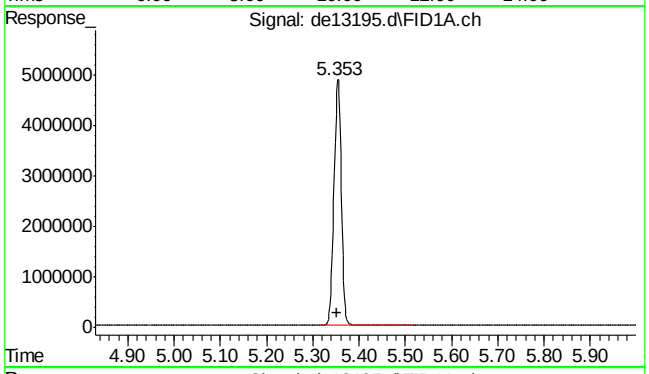


SGS ACCUTEST MC45611



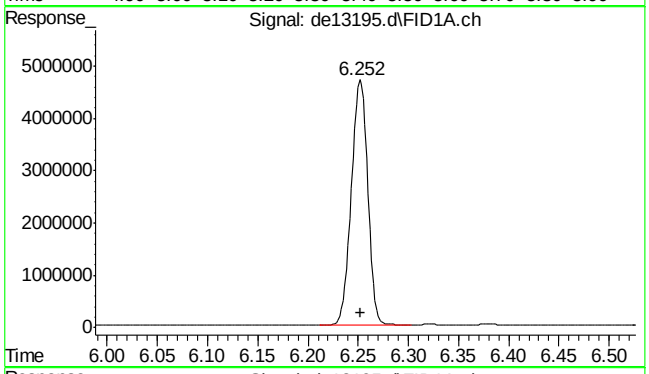
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



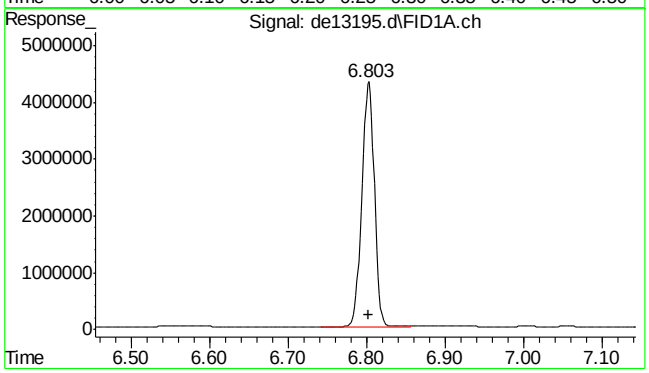
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 5345223
Conc: 51.09 µg/ml



#3 2-methylnaphthalene

R.T.: 6.252 min
Delta R.T.: 0.000 min
Response: 5287222
Conc: 50.95 µg/ml



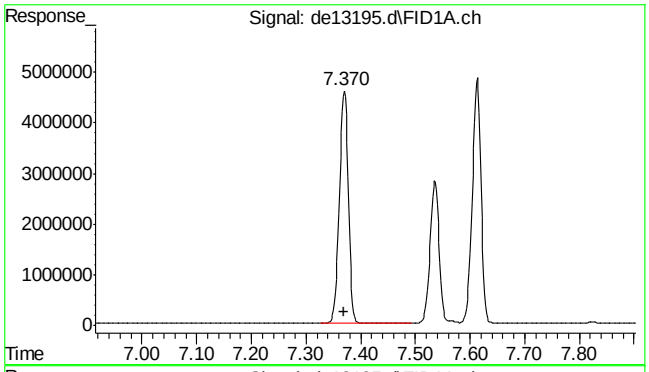
#4 2-fluorobiphenyl

R.T.: 6.803 min
Delta R.T.: 0.000 min
Response: 4755859
Conc: 50.97 µg/ml

9.5.5

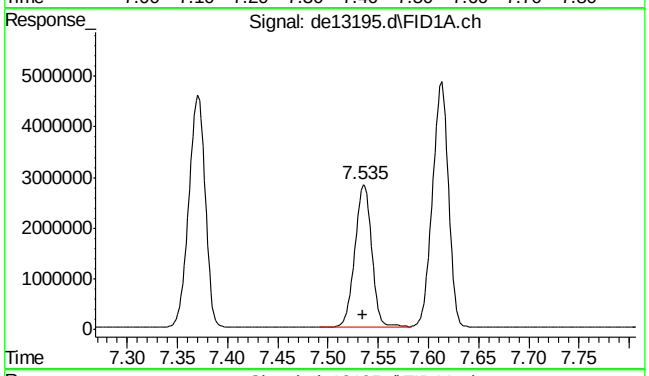
9

SGS ACCUTEST MC45611



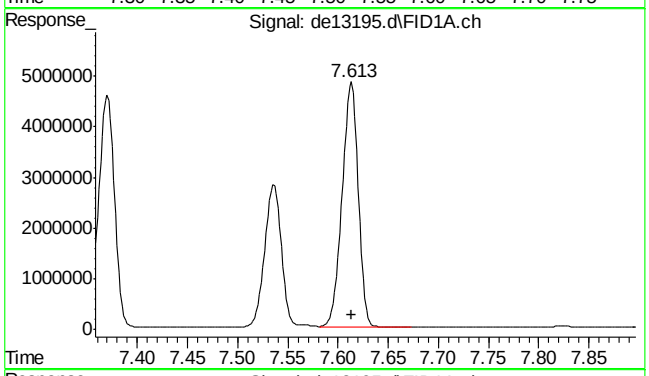
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



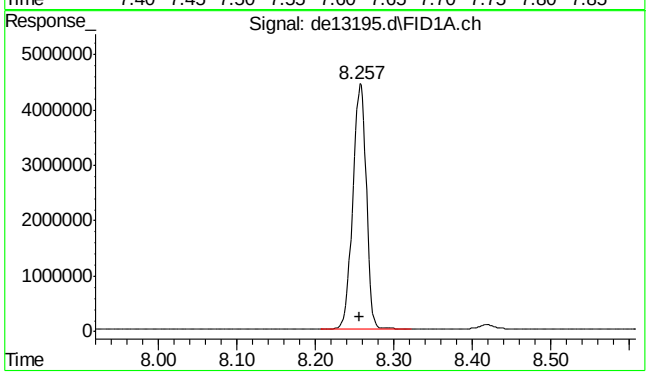
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



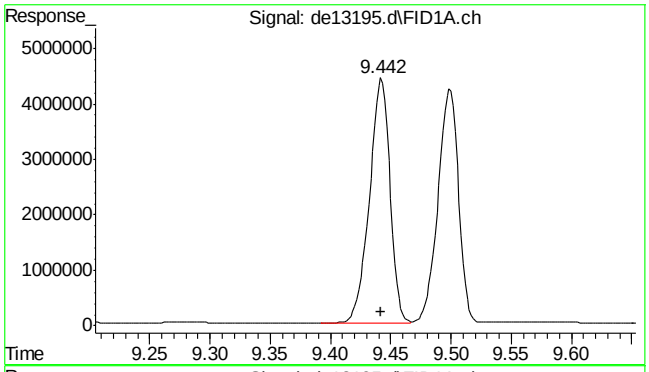
#7 acenaphthene

R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



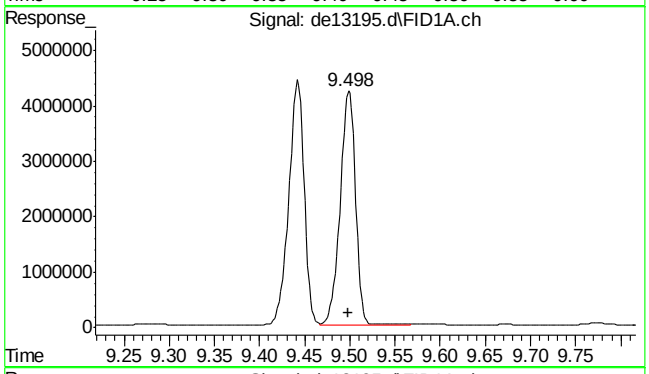
#8 fluorene

R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml



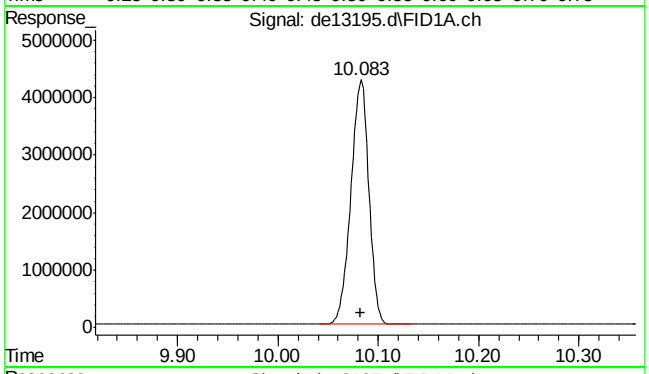
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



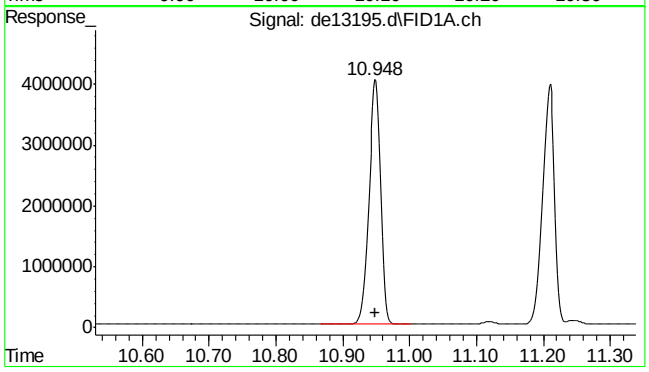
#10 anthracene

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 4970359
Conc: 51.42 µg/ml



#11 o-terphenyl

R.T.: 10.083 min
Delta R.T.: 0.000 min
Response: 5257542
Conc: 50.99 µg/ml



#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.5.5

9

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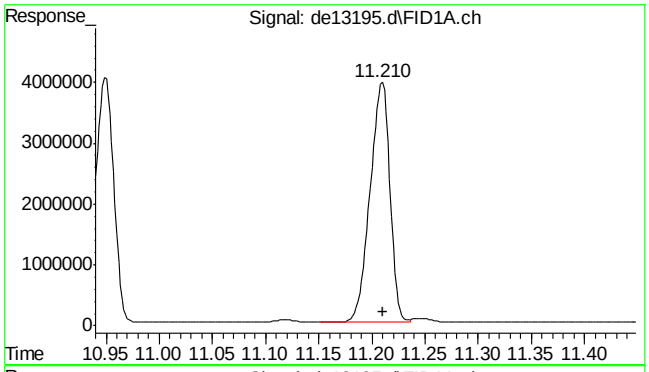
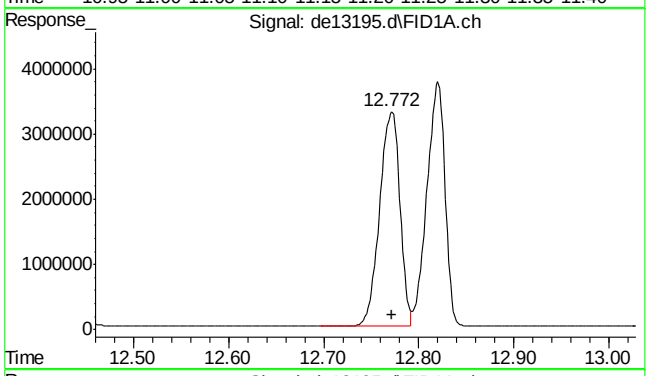


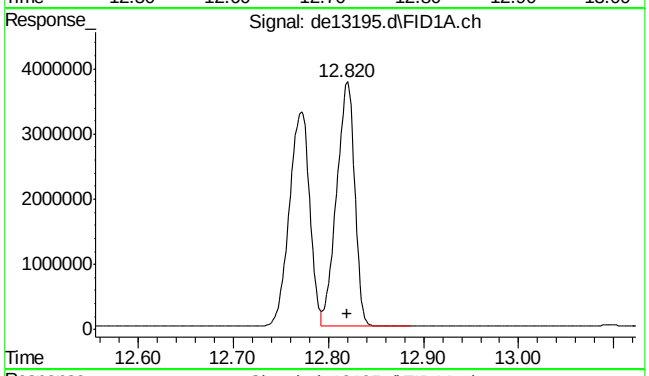
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



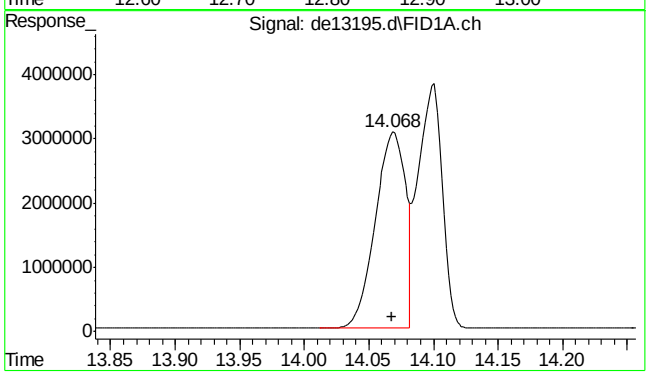
#14 benzo(a)anthracene

R.T.: 12.772 min
Delta R.T.: 0.000 min
Response: 4883350
Conc: 50.33 µg/ml



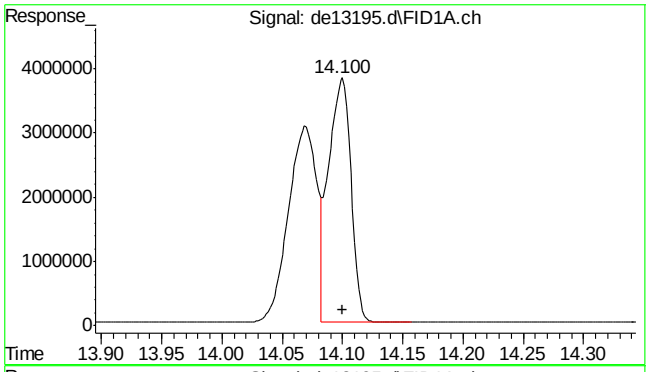
#15 chrysene

R.T.: 12.820 min
Delta R.T.: 0.000 min
Response: 4951740
Conc: 50.66 µg/ml



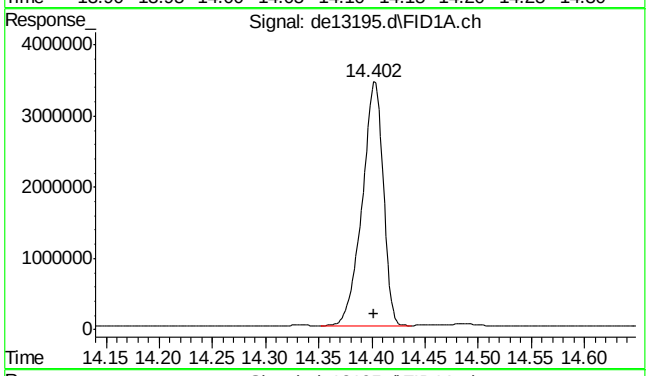
#16 benzo(B)fluoranthene

R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml



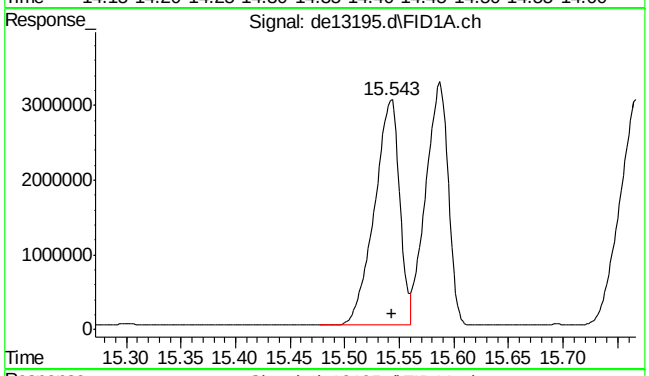
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



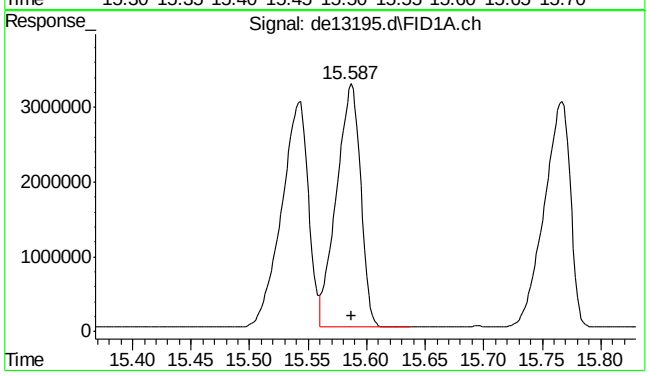
#18 benzo(a)pyrene

R.T.: 14.402 min
Delta R.T.: 0.000 min
Response: 4724847
Conc: 50.44 µg/ml



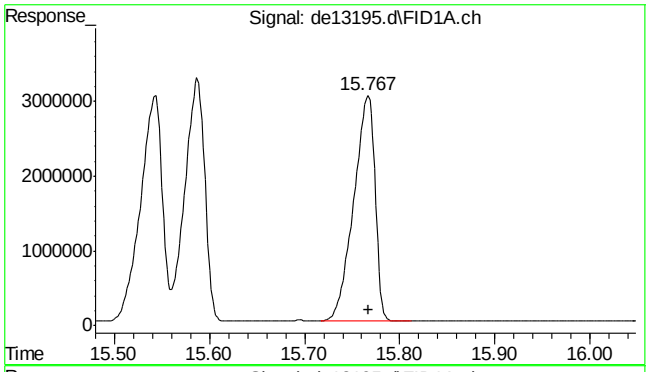
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4854725
Conc: 50.33 µg/ml m



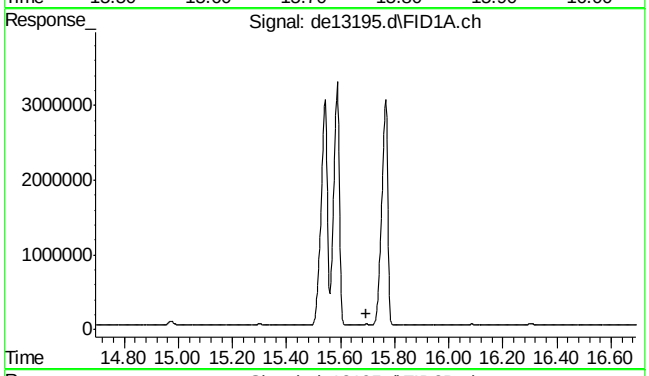
#20 dibenzo(ah)anthracene

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m



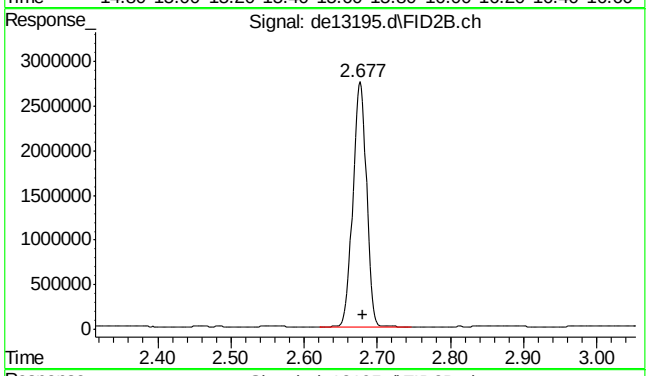
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



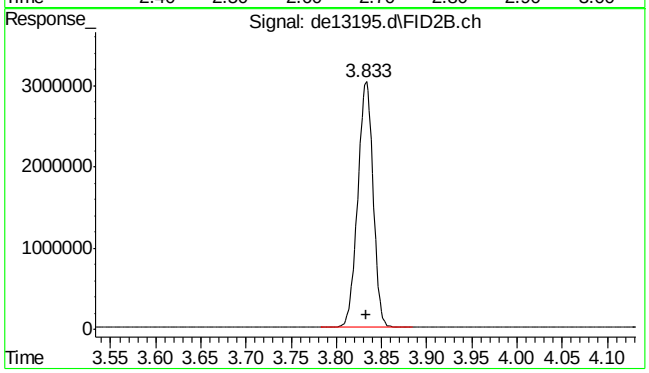
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

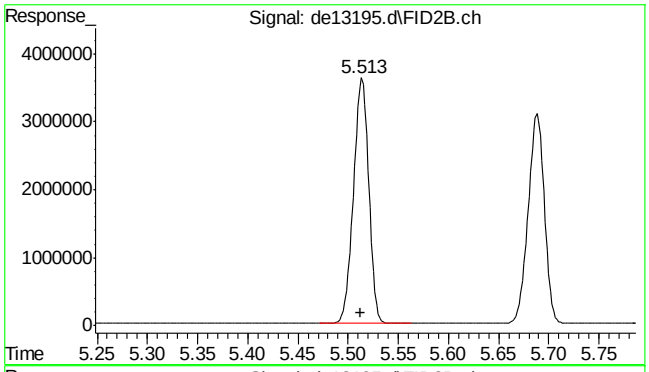
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



#26 c-10

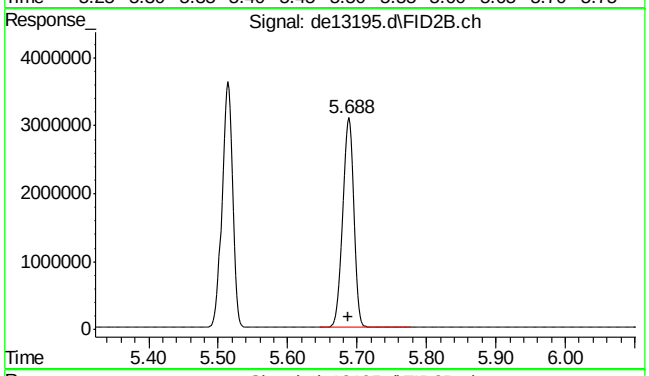
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

SGS ACCUTEST MC45611



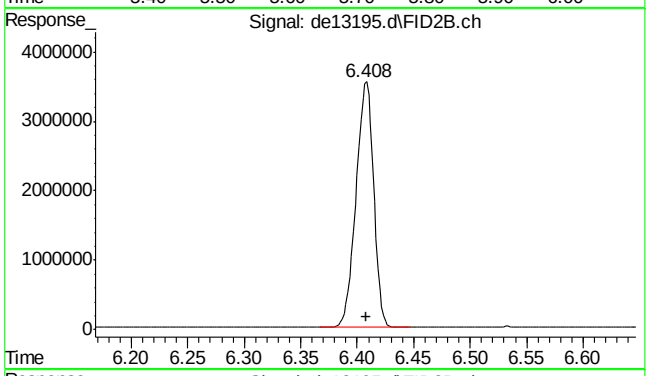
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



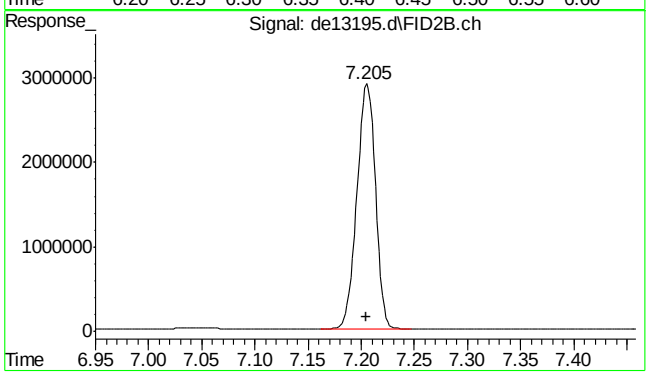
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3545795
Conc: 46.34 µg/ml



#29 2-methylnaphthalene #2

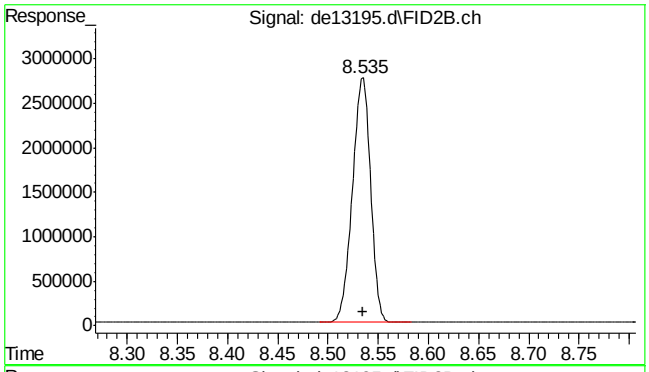
R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3803724
Conc: 46.79 µg/ml



#30 c-14

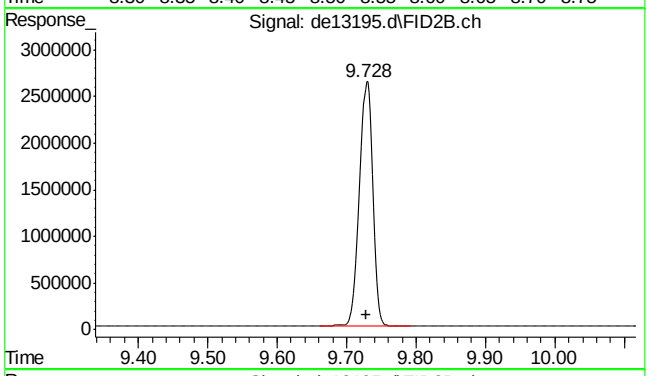
R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

SGS ACCUTEST MC45611



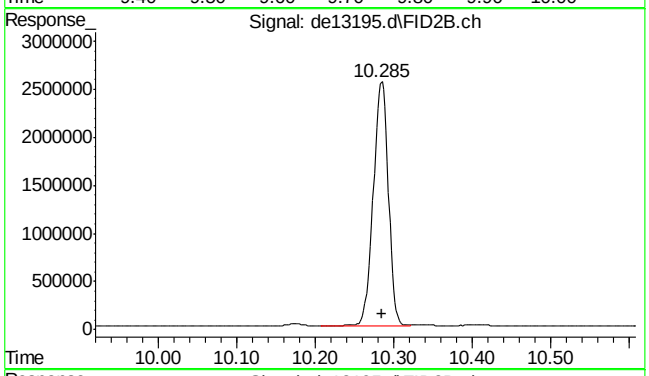
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



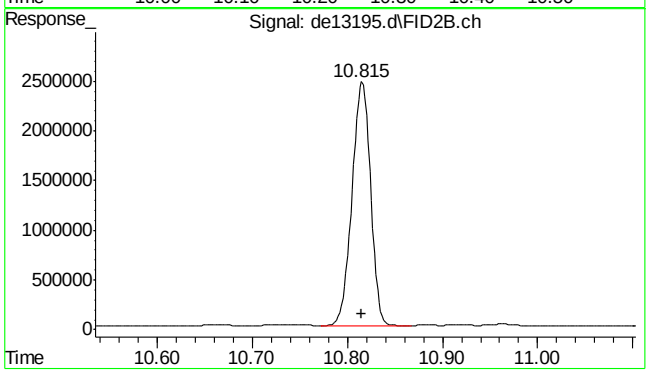
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



#33 c-19

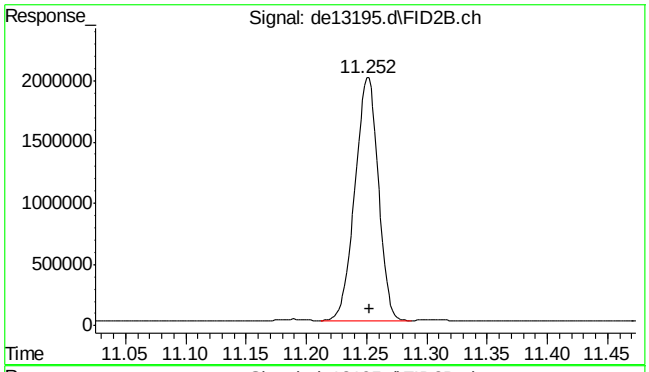
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



#34 c-20

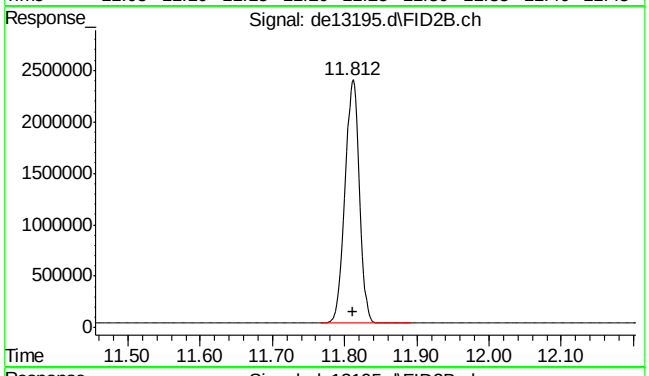
R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml

SGS ACCUTEST MC45611



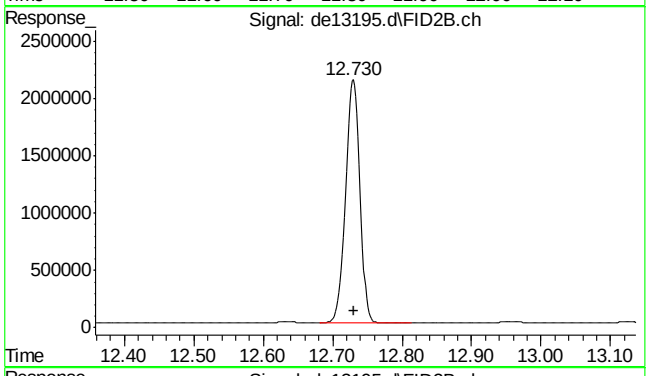
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



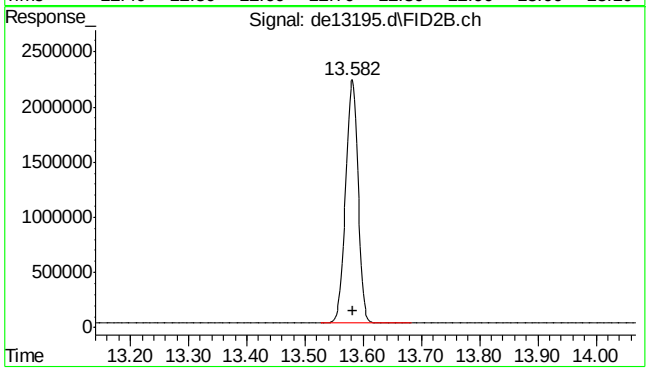
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3288115
Conc: 46.44 µg/ml



#37 c-24

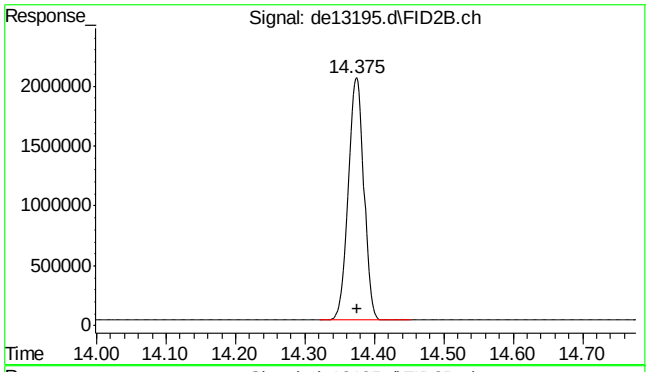
R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3065680
Conc: 45.78 µg/ml



#38 c-26

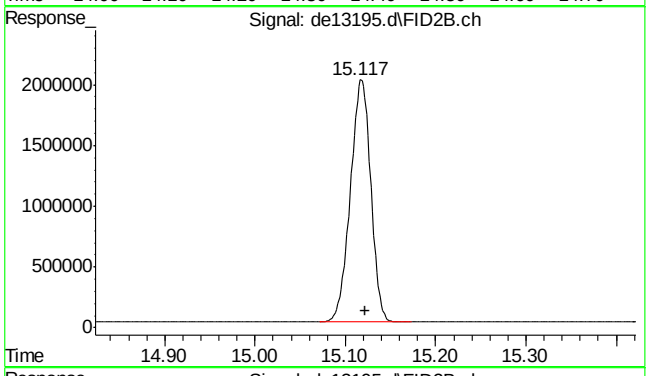
R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml

SGS ACCUTEST MC45611



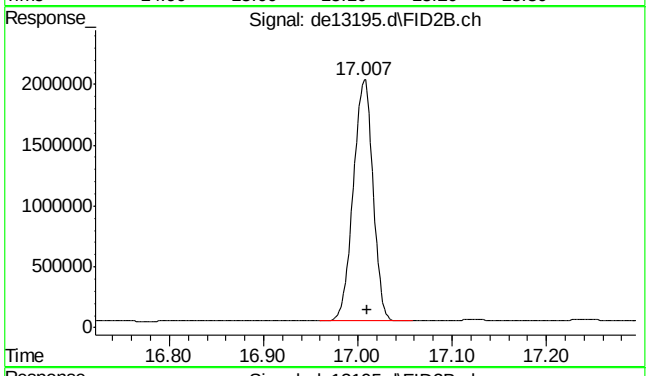
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



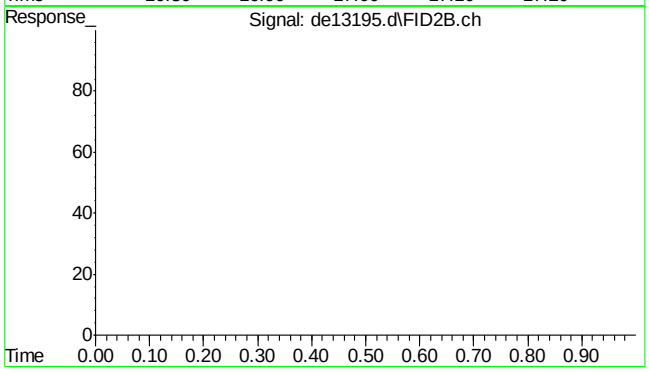
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3152151
Conc: 45.84 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2883025
Conc: 47.18 µg/ml m



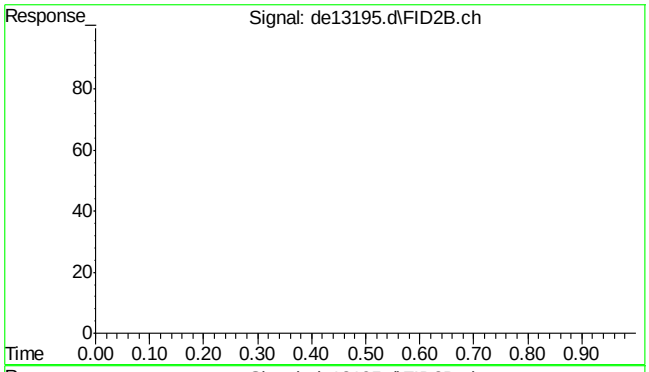
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.5

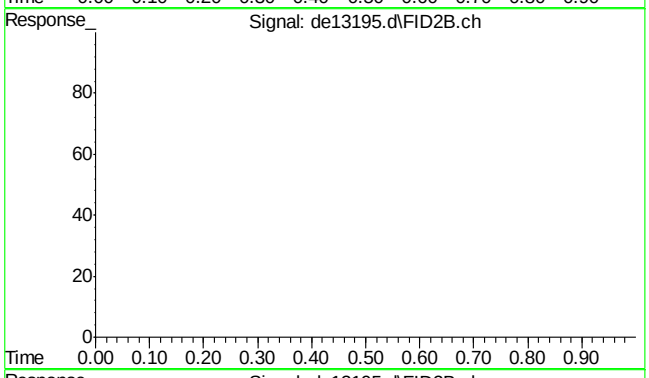
6

SGS ACCUTEST MC45611



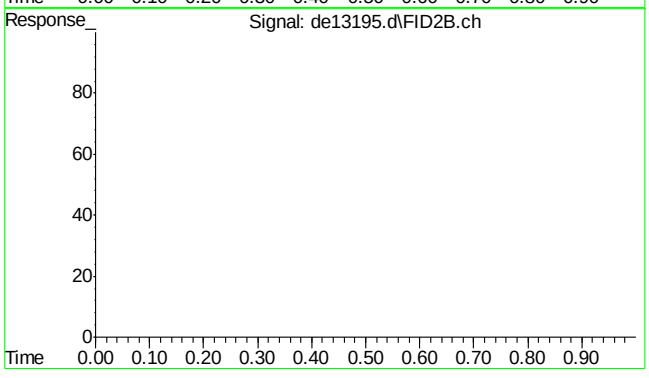
#43 bht

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

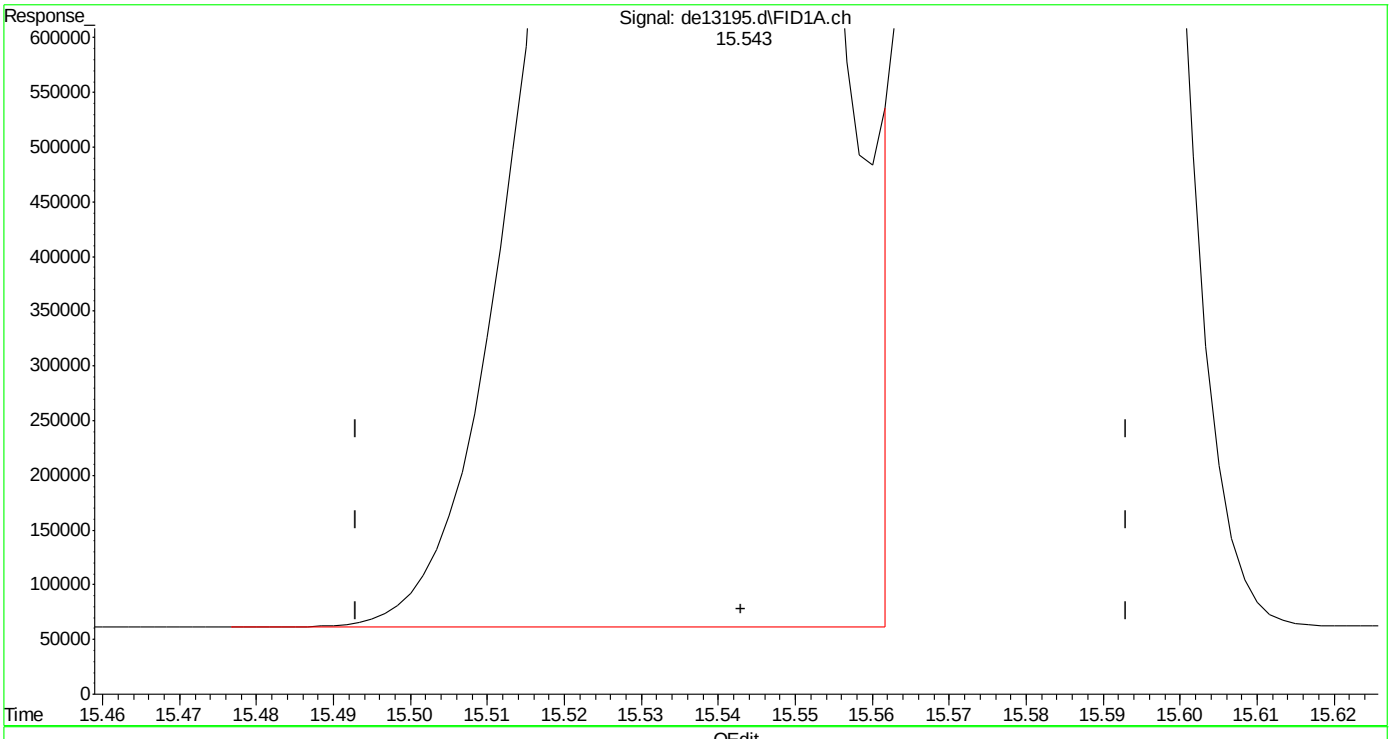
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

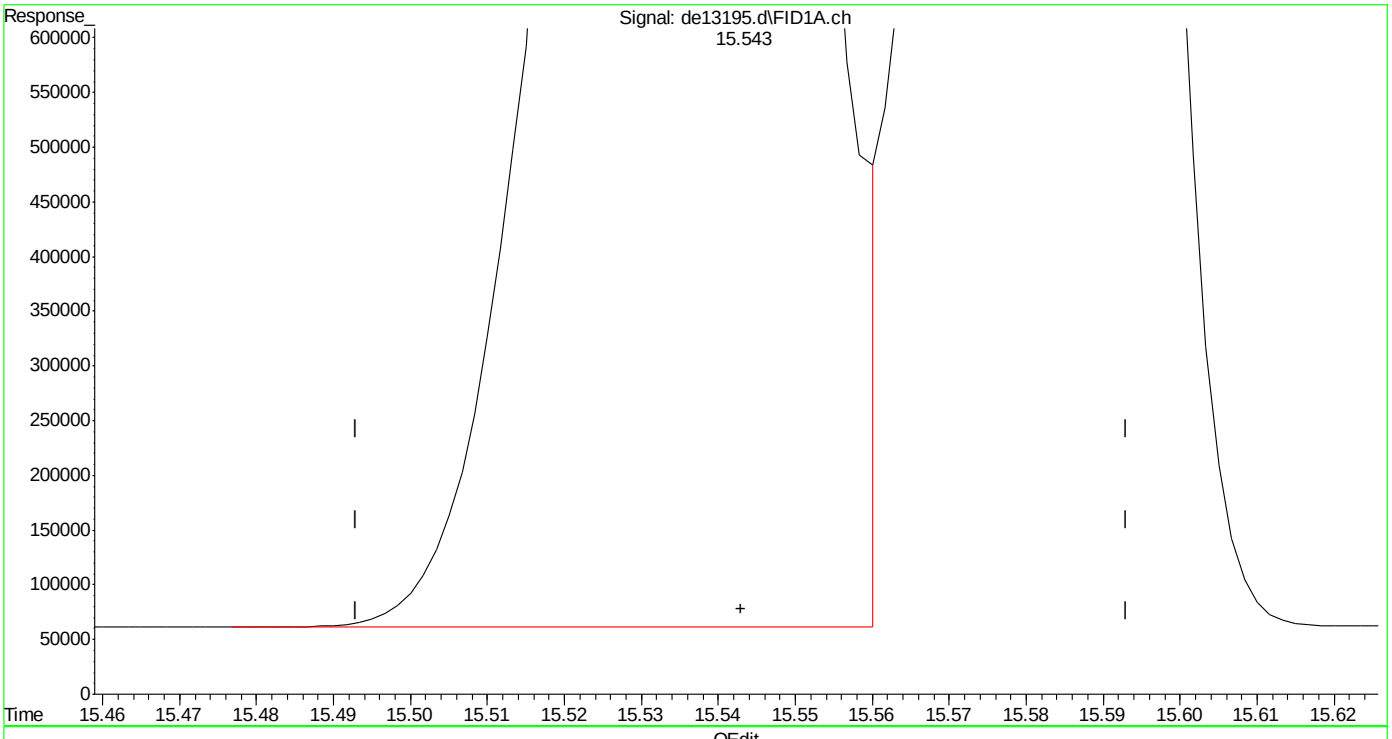
(+) = Expected Retention Time

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

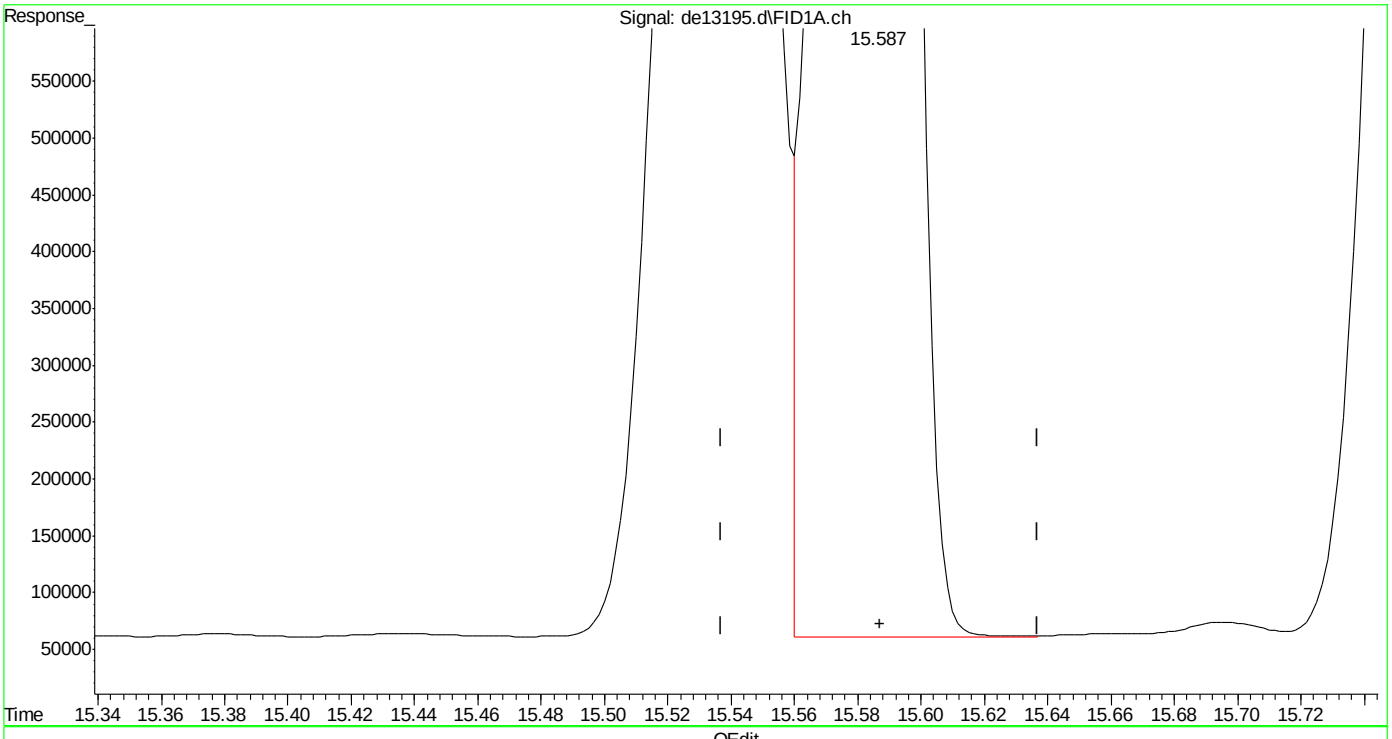
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.587min 50.795 µg/ml m
response 4685536

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.807	8980683	96.248 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 481.24%#
6) s	2-bromonaphthalene	7.540	6121297	96.499 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 482.49%#
11) s	o-terphenyl	10.087	9937595	96.373 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 481.87%#
35) s	1-chlorooctadecane	11.253	5337791	94.549 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 472.75%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.350	164719881	99.532 µg/mlm
2)	naphthalene	5.358	10142634	96.942 µg/ml
3)	2-methylnaphthalene	6.257	9997868	96.348 µg/ml
5)	acenaphthylene	7.375	9776029	95.799 µg/ml
7)	acenaphthene	7.618	10095451	96.622 µg/ml
8)	fluorene	8.263	9889893	96.350 µg/ml
9)	phenanthrene	9.448	9875264	96.257 µg/ml
10)	anthracene	9.507	9378790	97.021 µg/ml
12)	fluoranthene	10.957	9629565	95.613 µg/ml
13)	pyrene	11.217	9876553	96.690 µg/ml
14)	benzo(a)anthracene	12.778	9324427	96.095 µg/mlm
15)	chrysene	12.830	9386529	96.029 µg/mlm
16)	benzo(B)fluoranthene	14.078	9460698	94.644 µg/ml
17)	benzo(k)fluoranthene	14.113	9345183	97.563 µg/ml
18)	benzo(a)pyrene	14.417	8964794	95.712 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.555	9240715	95.924 µg/ml
20)	dibenzo(ah)anthracene	15.600	8726656	94.448 µg/ml
21)	benzo(ghi)perylene	15.782	8869696	95.141 µg/ml
25) h	c-9	2.680	7080731	92.721 µg/mlm
26) h	c-10	3.833	7121293	92.471 µg/ml
27)	naphthalene #2	5.518	7593446	95.036 µg/ml
28)	c-12	5.692	7047399	92.105 µg/ml
29)	2-methylnaphthalene #2	6.412	7564728	93.063 µg/ml
30)	c-14	7.208	6951061	90.996 µg/ml
31)	c-16	8.538	6811631	89.870 µg/ml
32)	c-18	9.732	6758324	90.119 µg/ml
33)	c-19	10.288	6704725	91.450 µg/ml
34)	c-20	10.818	6591283	91.774 µg/ml
36)	c-22	11.815	6550653	92.519 µg/ml
37)	c-24	12.733	6102937	91.140 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.585	6486501	92.533	µg/ml
39)		c-28	14.378	6270223	92.446	µg/ml
40)	h	c-30	15.122	6235140	90.668	µg/ml
41)	h	c-36	17.010	5572797	91.214	µg/mlm

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

9.5.6

9

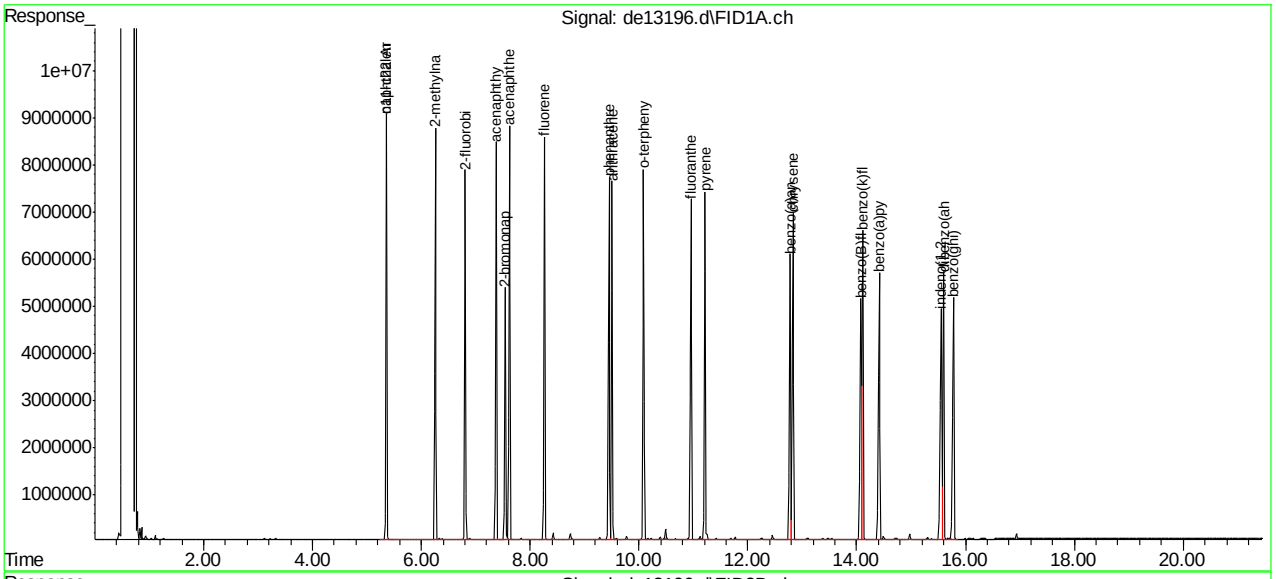
SGS ACCUTEST MC45611

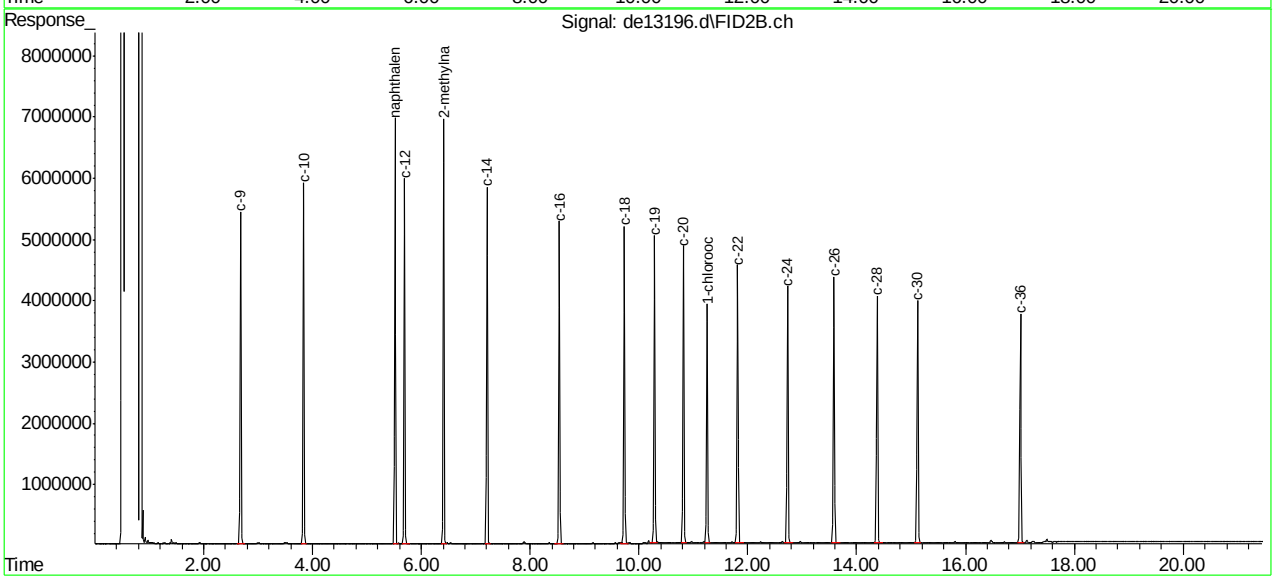
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

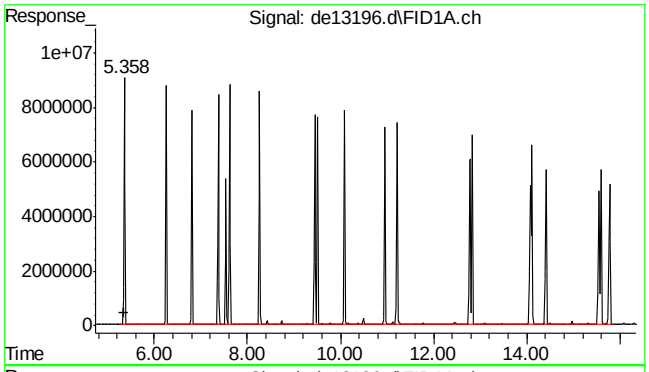
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



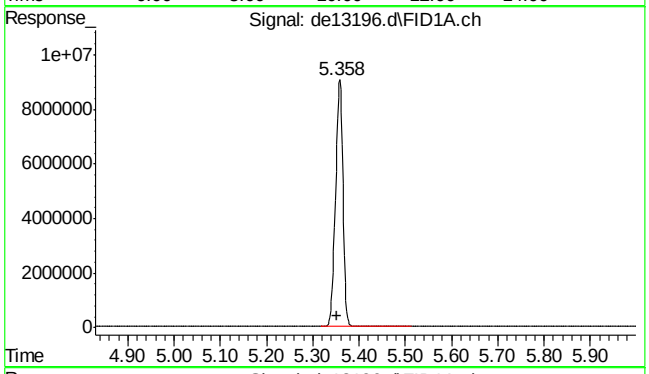


SGS ACCUTEST MC45611



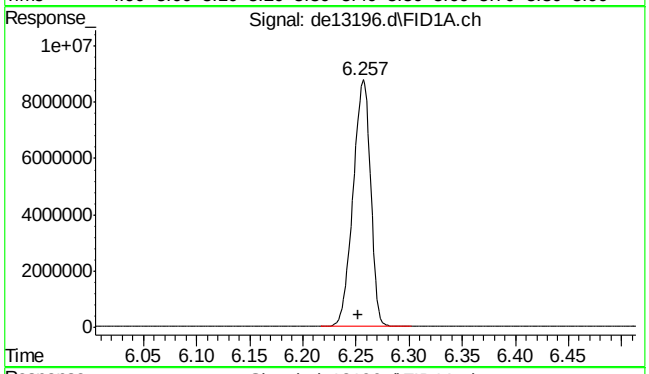
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



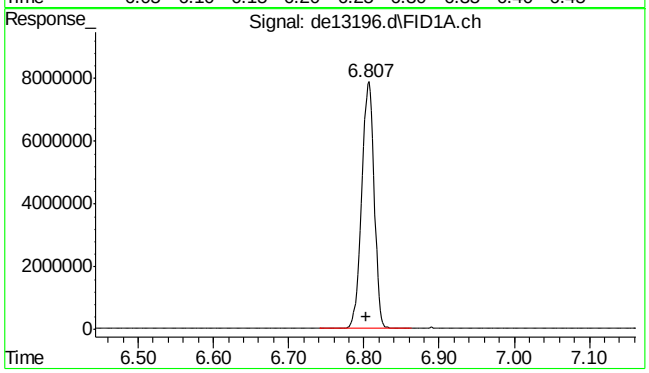
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



#3 2-methylnaphthalene

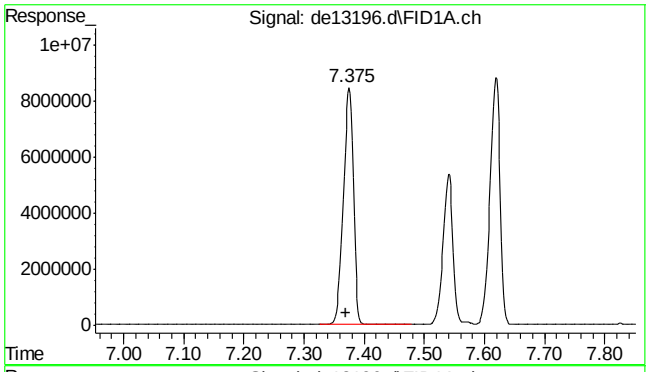
R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



#4 2-fluorobiphenyl

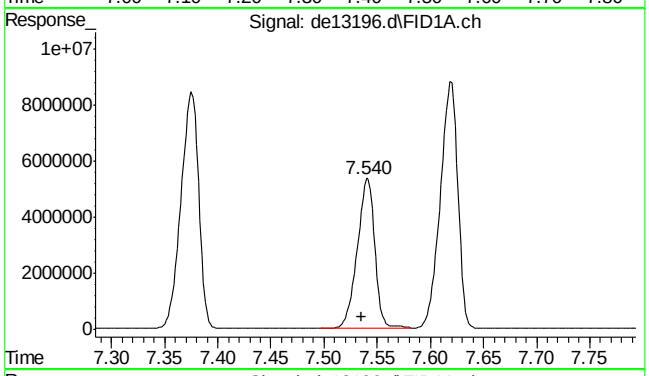
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml

SGS ACCUTEST MC45611



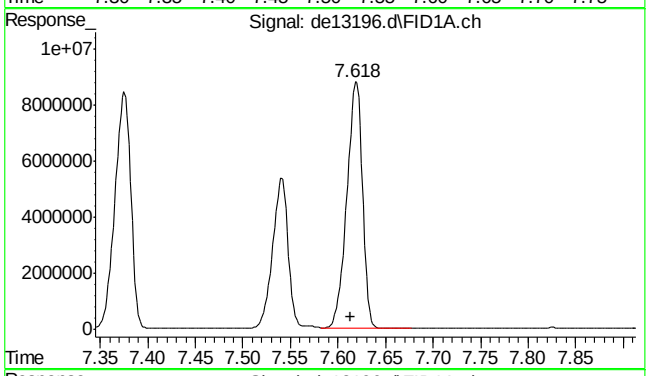
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



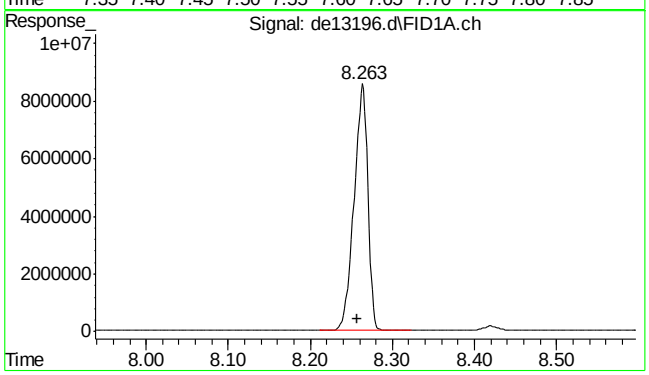
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 6121297
Conc: 96.50 µg/ml



#7 acenaphthene

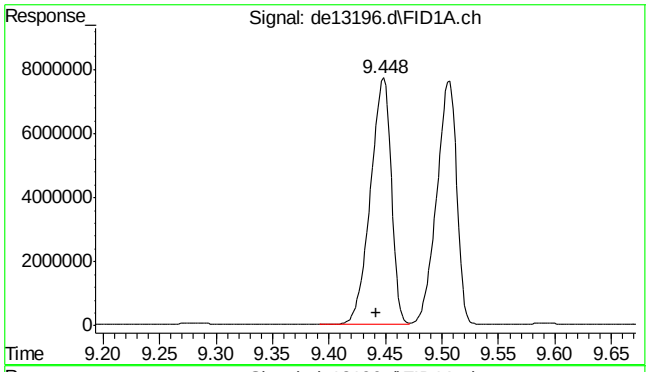
R.T.: 7.618 min
Delta R.T.: 0.005 min
Response: 10095451
Conc: 96.62 µg/ml



#8 fluorene

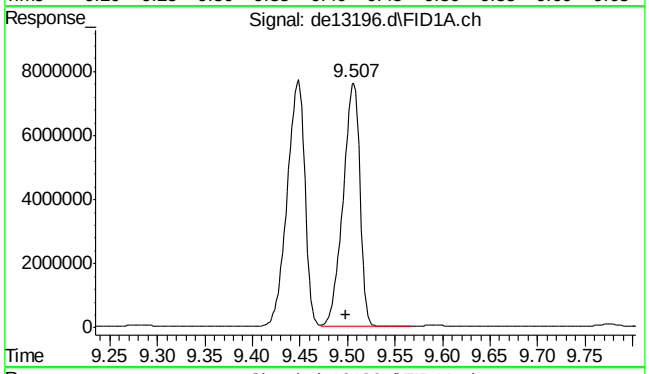
R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

SGS ACCUTEST MC45611



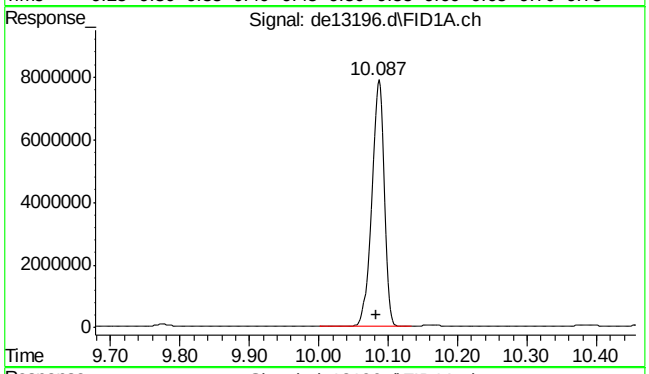
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



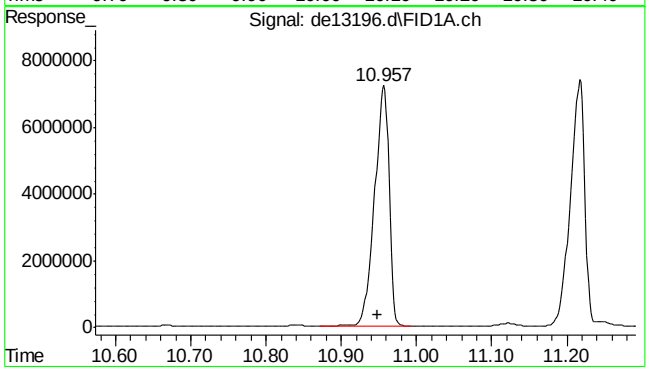
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



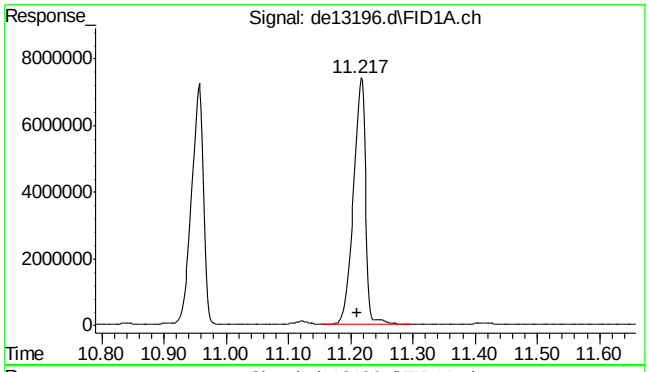
#12 fluoranthene

R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

9.5.6

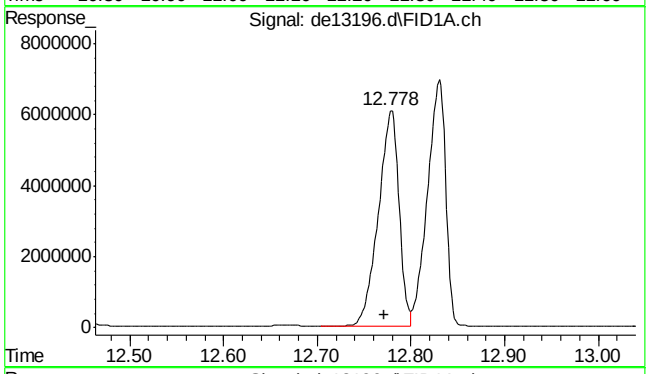
9

SGS ACCUTEST MC45611



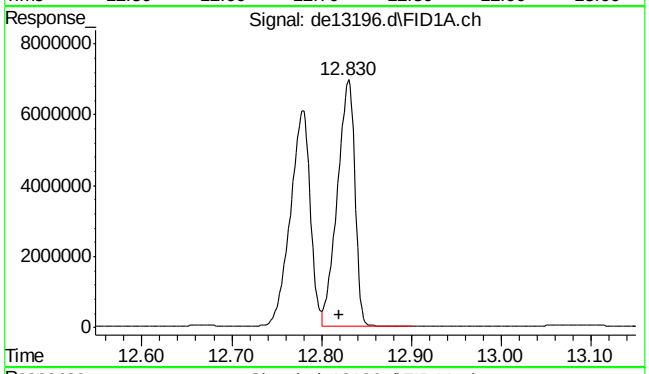
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



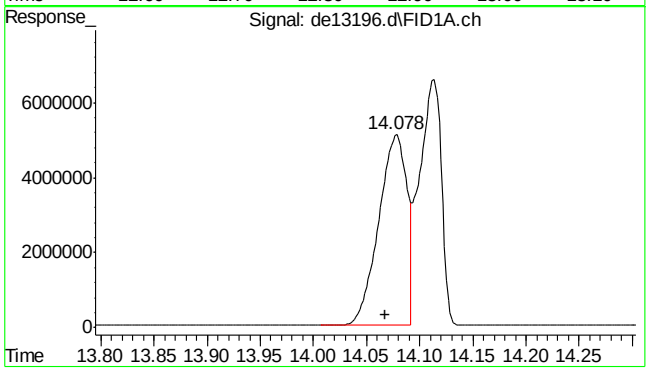
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



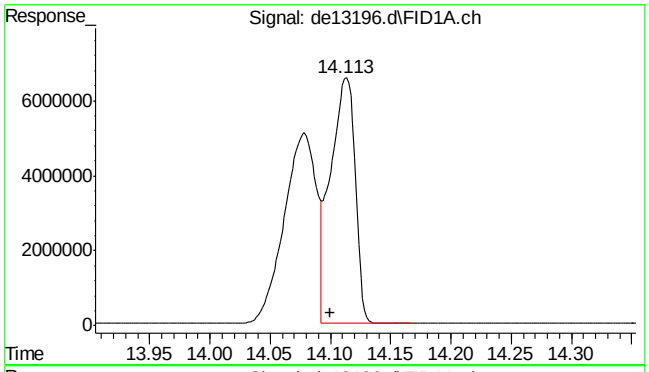
#15 chrysene

R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



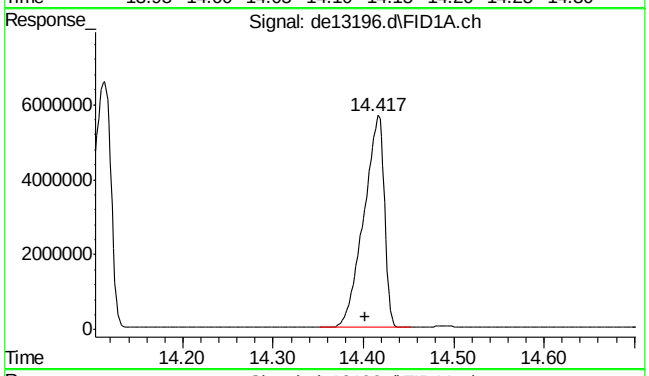
#16 benzo(B)fluoranthene

R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml



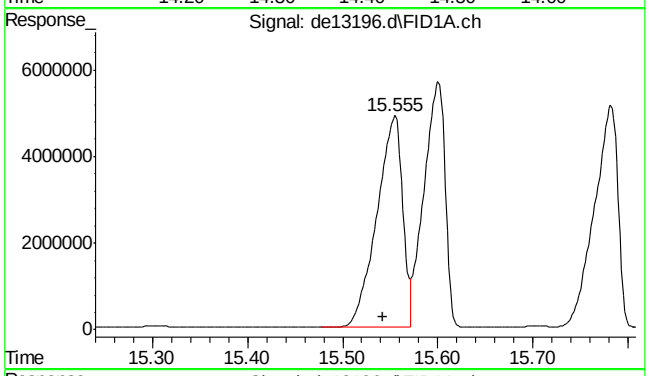
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



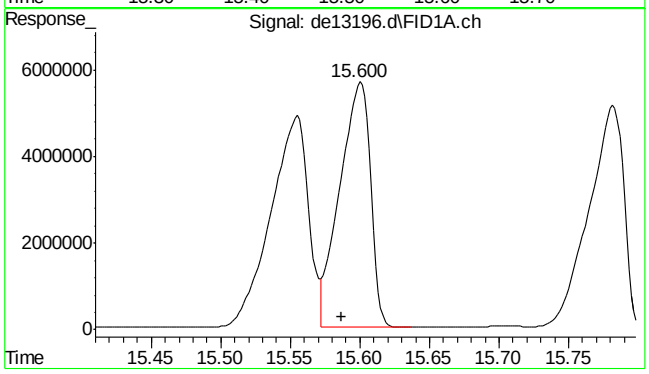
#18 benzo(a)pyrene

R.T.: 14.417 min
Delta R.T.: 0.015 min
Response: 8964794
Conc: 95.71 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.555 min
Delta R.T.: 0.012 min
Response: 9240715
Conc: 95.92 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml

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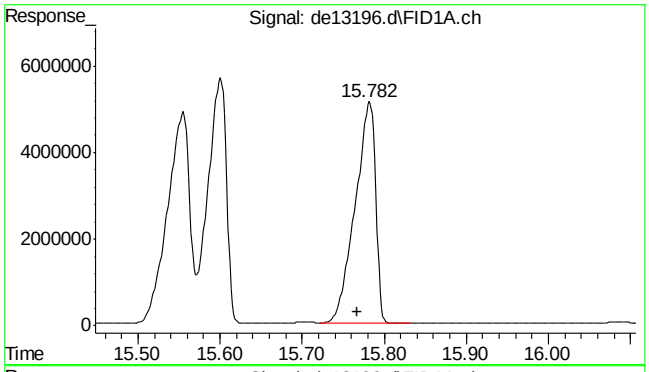
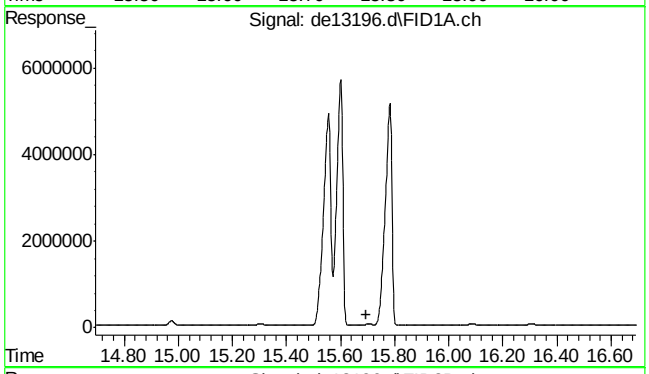


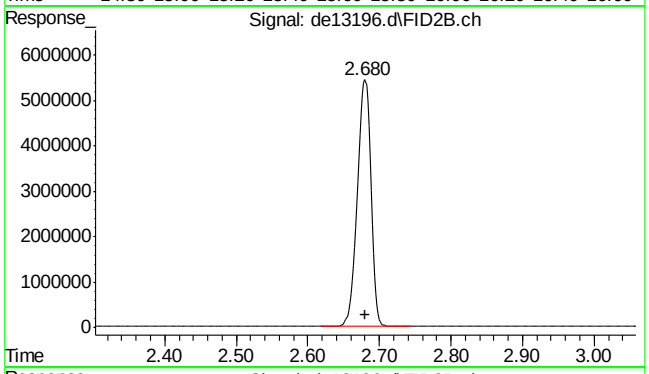
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



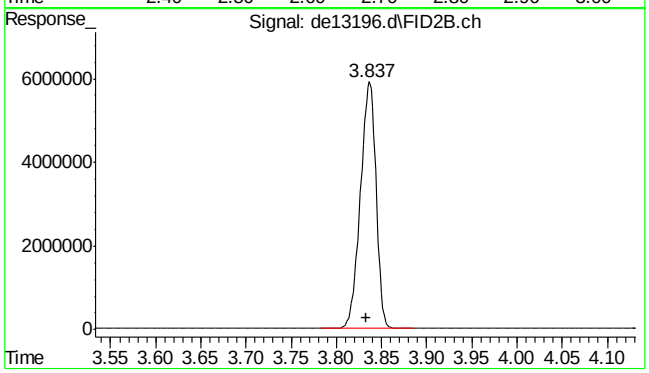
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

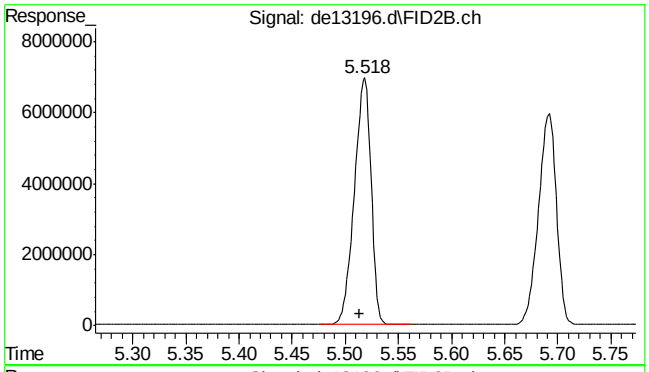
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 7080731
Conc: 92.72 µg/ml m



#26 c-10

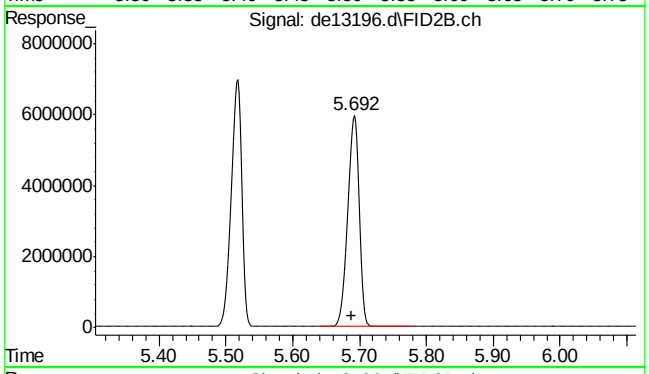
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

SGS ACCUTEST MC45611



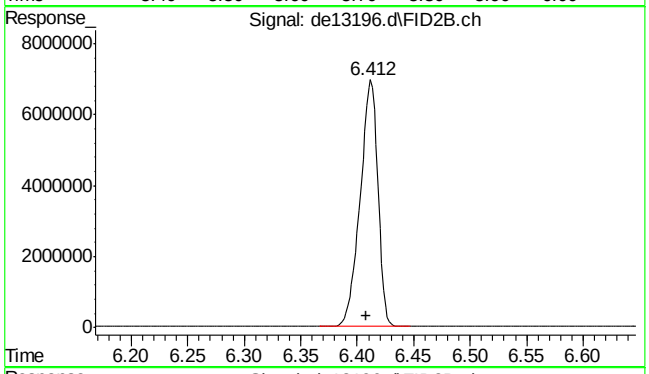
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



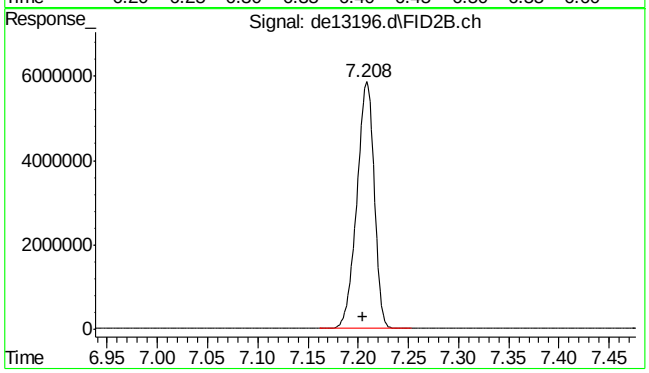
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



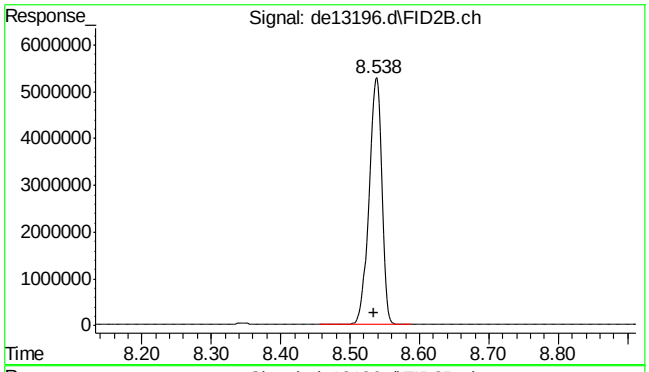
#29 2-methylnaphthalene #2

R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



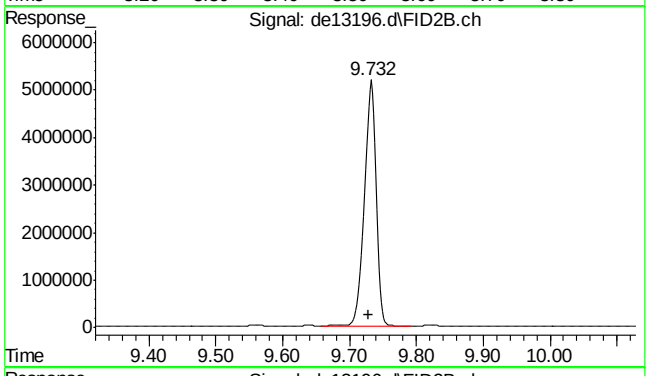
#30 c-14

R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml



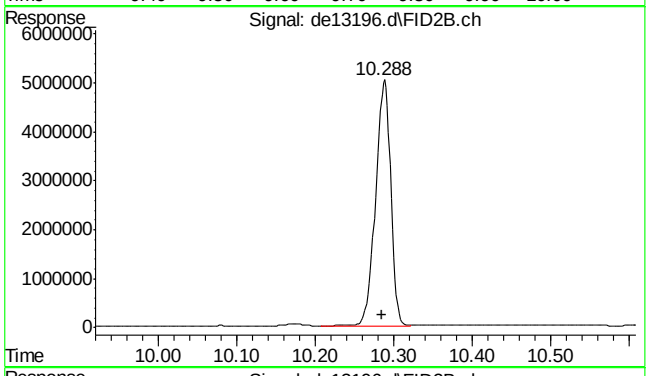
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



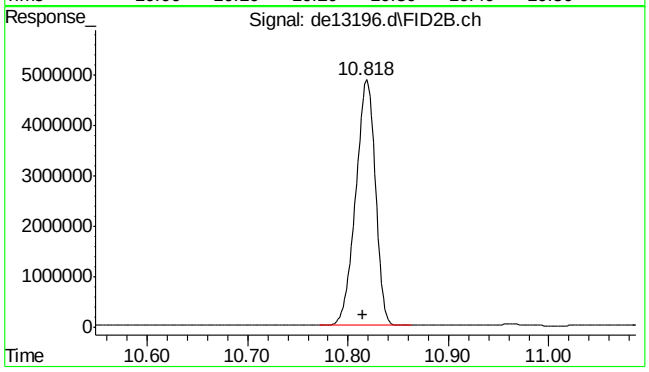
#32 c-18

R.T.: 9.732 min
Delta R.T.: 0.004 min
Response: 6758324
Conc: 90.12 µg/ml



#33 c-19

R.T.: 10.288 min
Delta R.T.: 0.003 min
Response: 6704725
Conc: 91.45 µg/ml



#34 c-20

R.T.: 10.818 min
Delta R.T.: 0.003 min
Response: 6591283
Conc: 91.77 µg/ml

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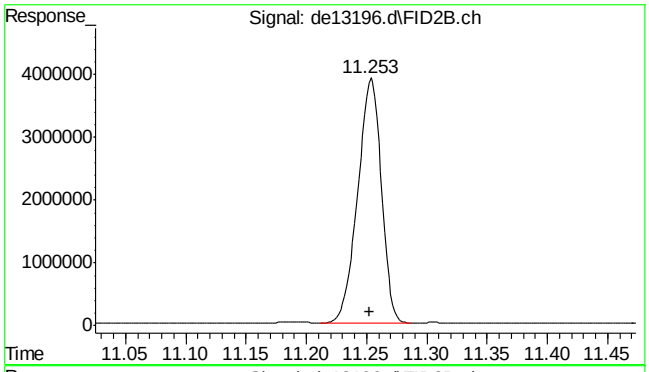
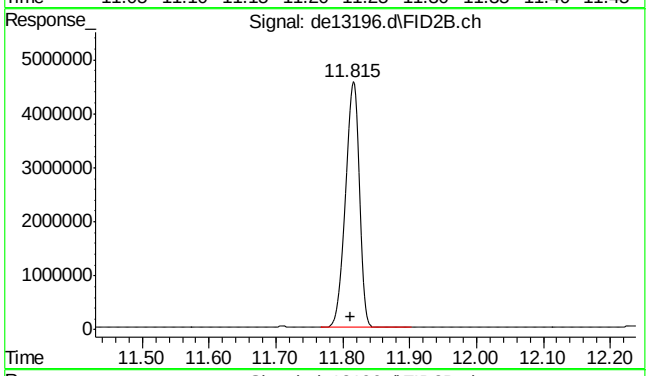


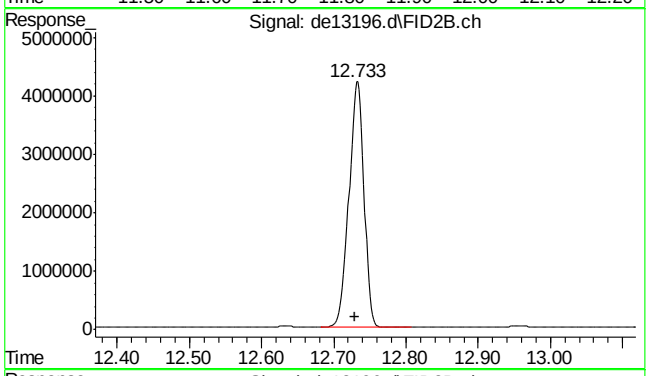
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



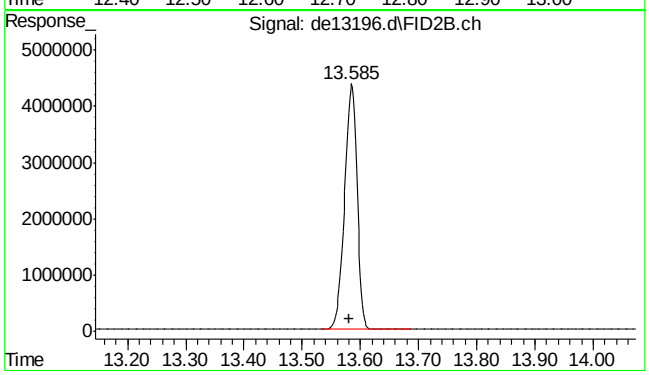
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



#37 c-24

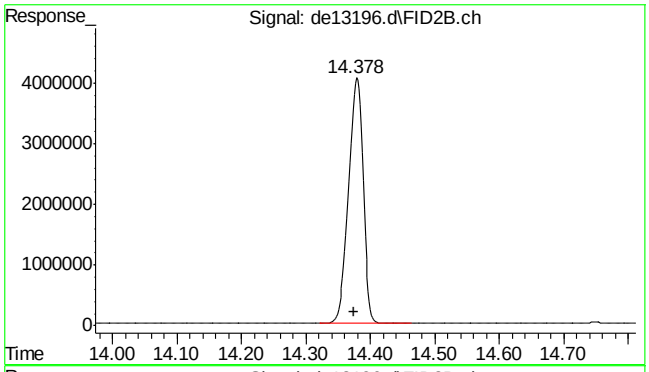
R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



#38 c-26

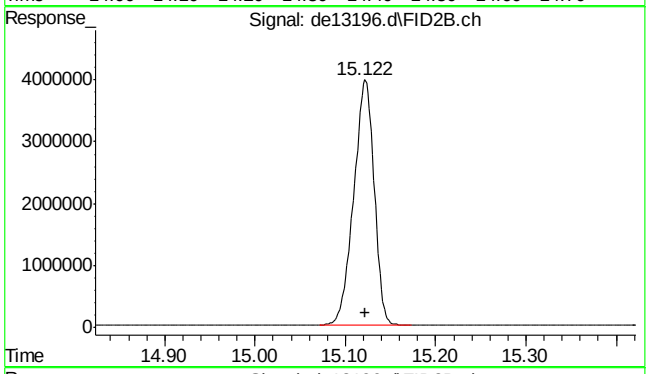
R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml

SGS ACCUTEST MC45611



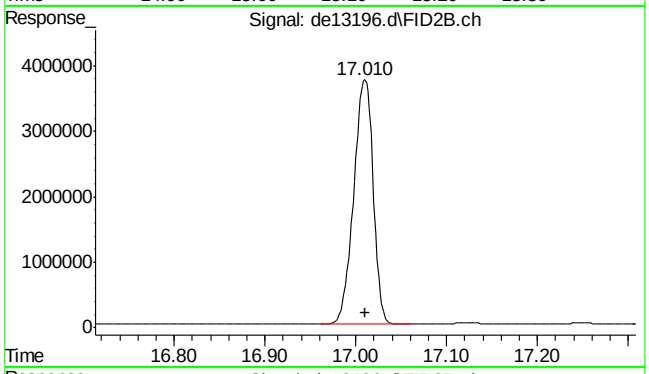
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



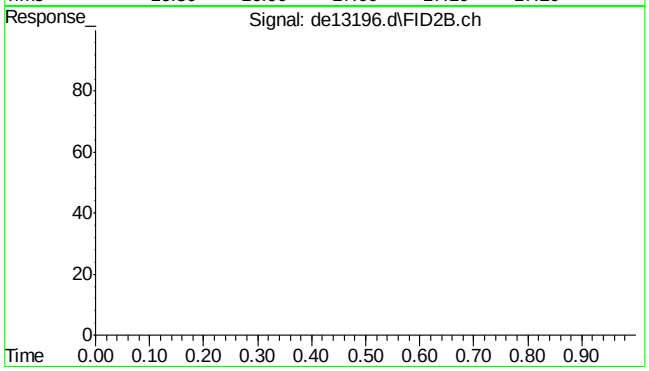
#40 c-30

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



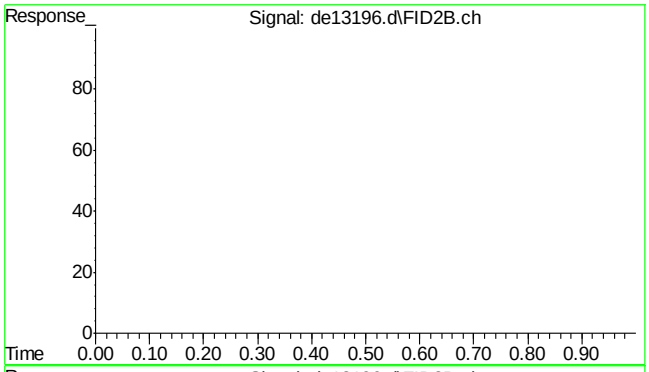
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.6

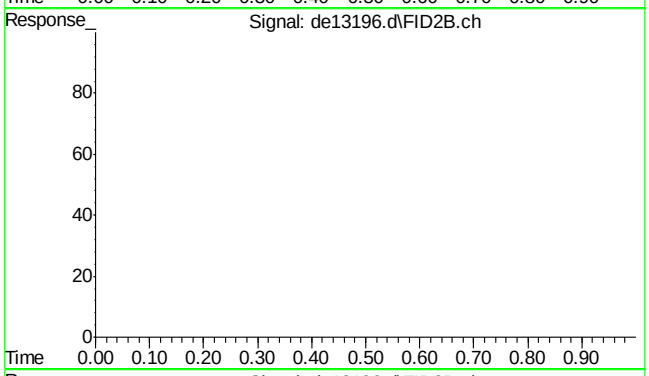
9

SGS ACCUTEST MC45611



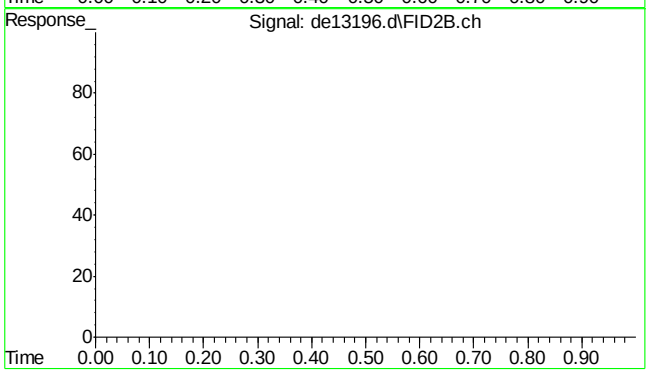
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

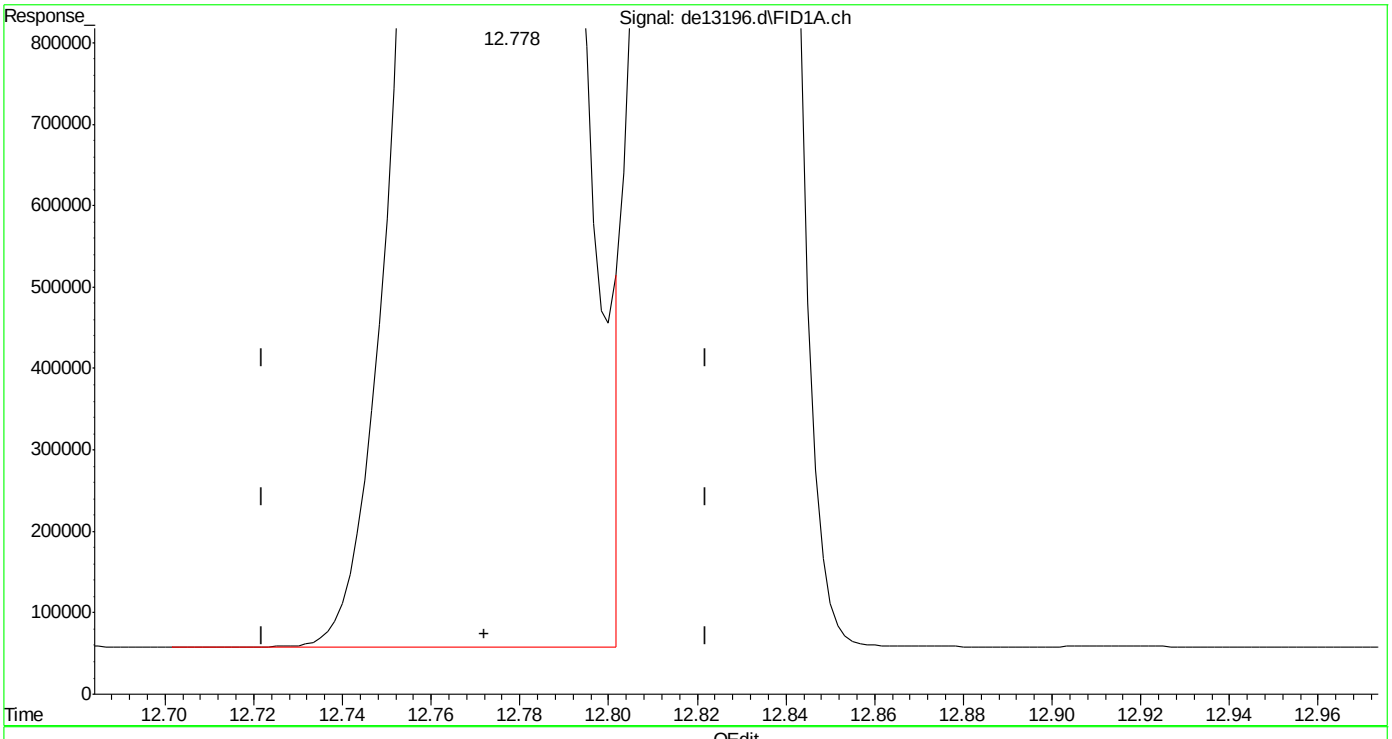
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.778min 96.536 µg/ml
response 9367180

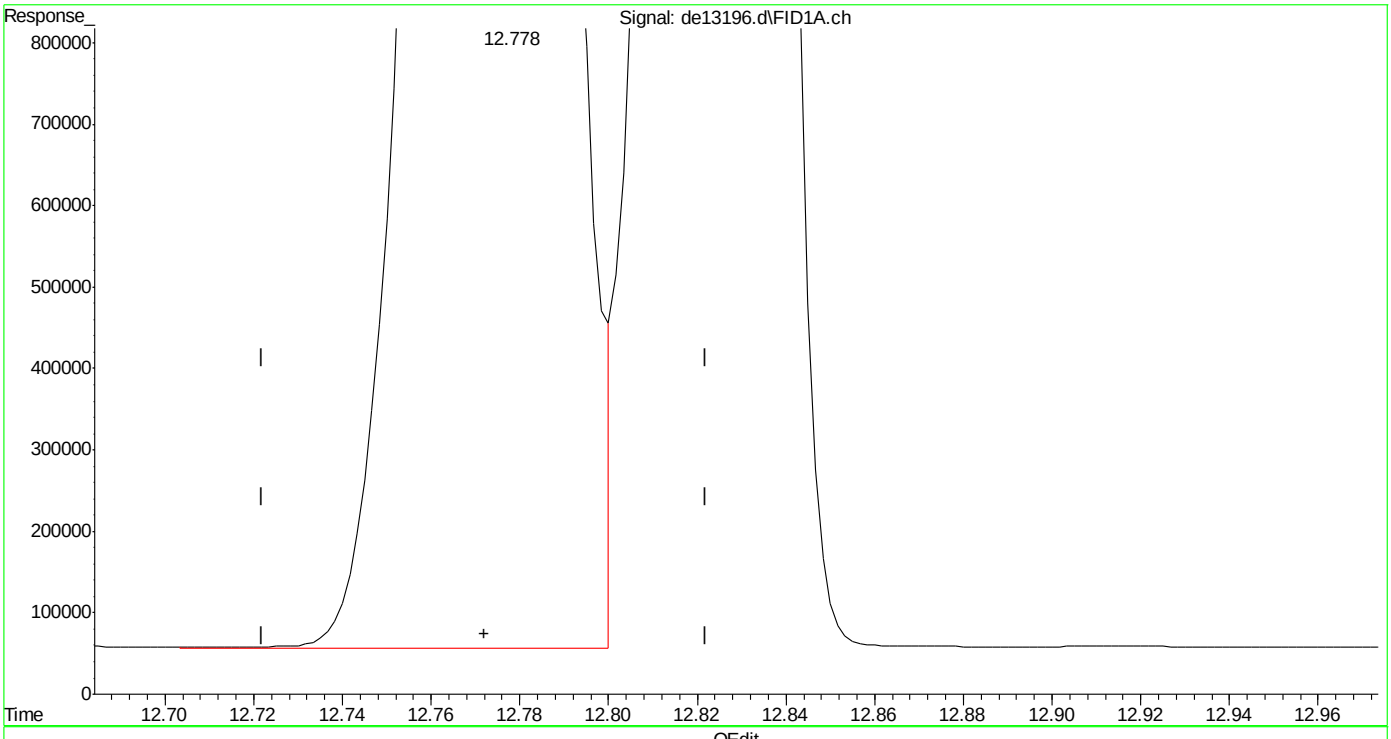
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.778min 96.095 µg/ml m
response 9324427

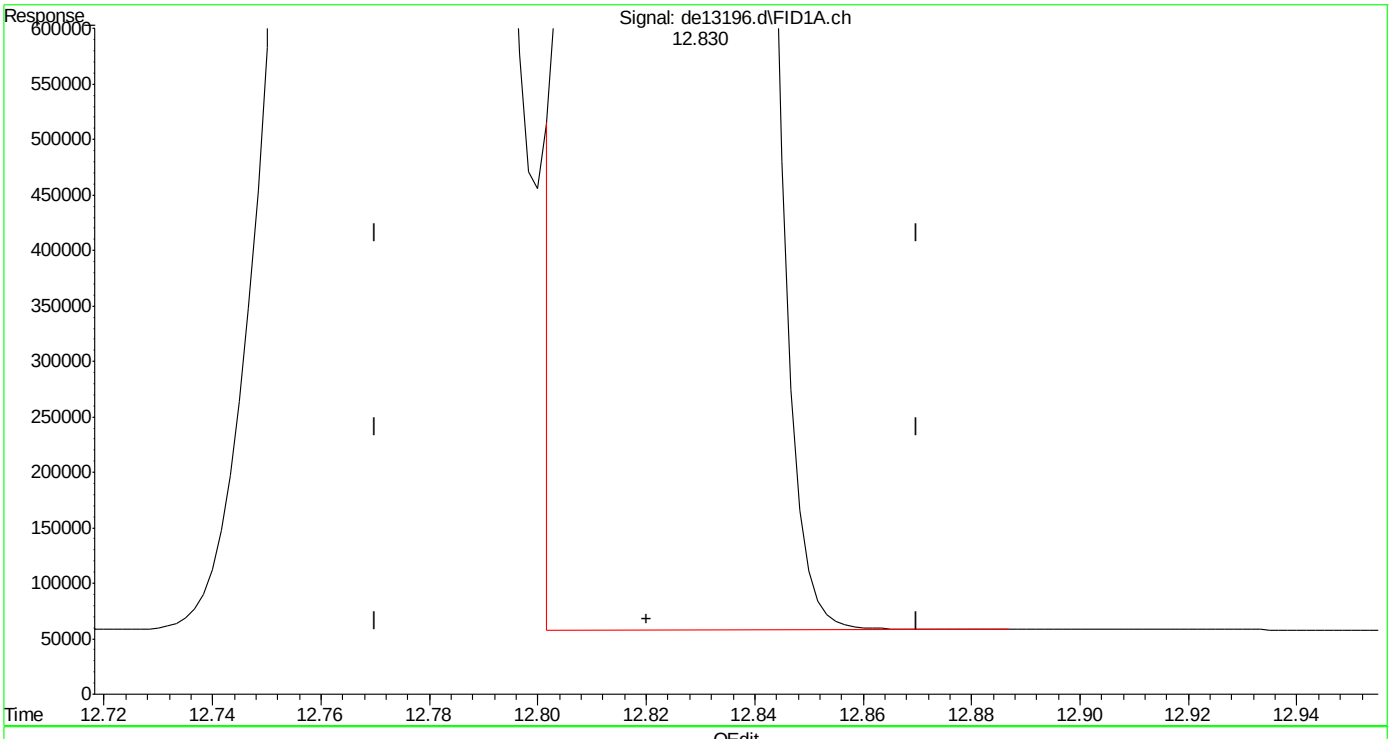
(+) = Expected Retention Time

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
EPH160204M.M Fri Feb 05 11:00:57 2016

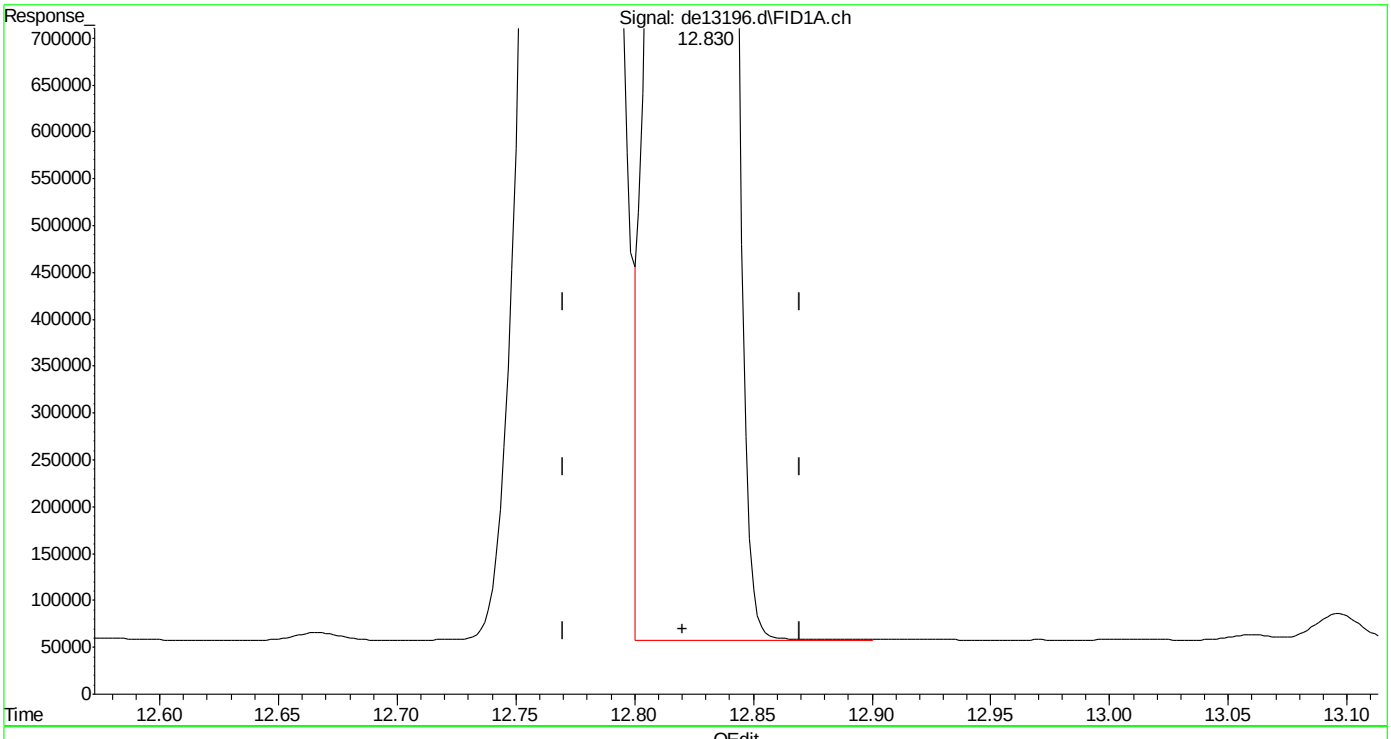
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.830min 96.029 µg/ml m
response 9386529

(+) = Expected Retention Time

SGS ACCUTEST MC45611

DE13197.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.813	17171697	185.149 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 925.75%#	
6) s 2-bromonaphthalene	7.548	11710947	185.457 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 927.28%#	
11) s o-terphenyl	10.095	18995194	184.432 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 922.16%#	
35) s 1-chlorooctadecane	11.258	9870838	174.493 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 872.47%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	316974952	191.661 µg/mlm
2) naphthalene	5.365	19450620	187.644 µg/ml
3) 2-methylnaphthalene	6.263	19131536	185.697 µg/ml
5) acenaphthylene	7.383f	18686177	184.334 µg/ml
7) acenaphthene	7.628	19311298	185.676 µg/ml
8) fluorene	8.272	18917157	185.002 µg/ml
9) phenanthrene	9.457	18899419	184.533 µg/ml
10) anthracene	9.517	17945874	184.815 µg/ml
12) fluoranthene	10.968	18457513	183.371 µg/ml
13) pyrene	11.228	18932497	185.310 µg/ml
14) benzo(a)anthracene	12.792	17872955	183.617 µg/mlm
15) chrysene	12.847f	18069681	184.428 µg/mlm
16) benzo(B)fluoranthene	14.092	18893122	189.467 µg/ml
17) benzo(k)fluoranthene	14.132f	16859064	175.363 µg/mlm
18) benzo(a)pyrene	14.432f	17319408	185.106 µg/ml
19) indeno(1,2,3-cd)pyrene	15.575f	18670540	194.062 µg/mlm
20) dibenzo(ah)anthracene	15.620f	16610466	180.145 µg/mlm
21) benzo(ghi)perylene	15.807f	17523714	188.129 µg/mlm
25) h c-9	2.680	13093571	173.259 µg/mlm
26) h c-10	3.833	13149397	172.603 µg/ml
27) naphthalene #2	5.523	14006239	175.249 µg/ml
28) c-12	5.697	12963152	171.352 µg/ml
29) 2-methylnaphthalene #2	6.418	13931230	172.095 µg/ml
30) c-14	7.213	12790598	169.622 µg/ml
31) c-16	8.543	12583573	168.461 µg/ml
32) c-18	9.738	12493898	168.985 µg/ml
33) c-19	10.295	12406524	171.313 µg/ml
34) c-20	10.825	12189358	171.737 µg/ml
36) c-22	11.822	12115679	172.966 µg/ml
37) c-24	12.738	11324691	171.289 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
38)	c-26	13.592	12045195	173.683	µg/ml
39)	c-28	14.385	11646376	173.584	µg/ml
40) h	c-30	15.122	11593413	170.863	µg/ml
41) h	c-36	17.010	10854654	179.925	µg/mlm

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

9.5.7

9

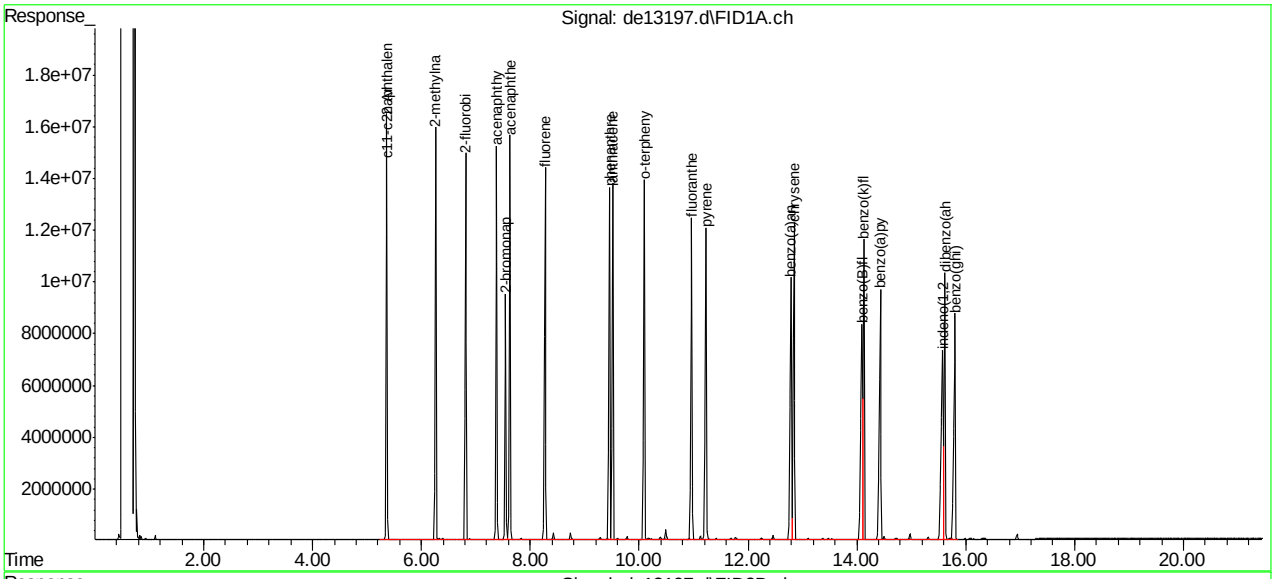
SGS ACCUTEST MC45611

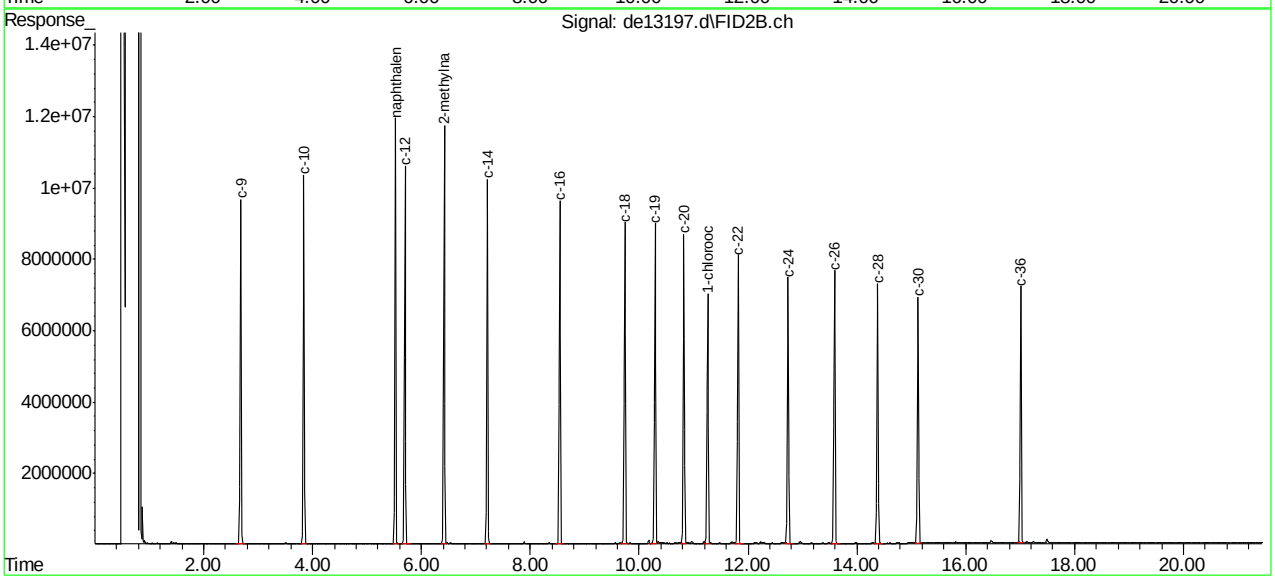
Quantitation Report (QT Reviewed)

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

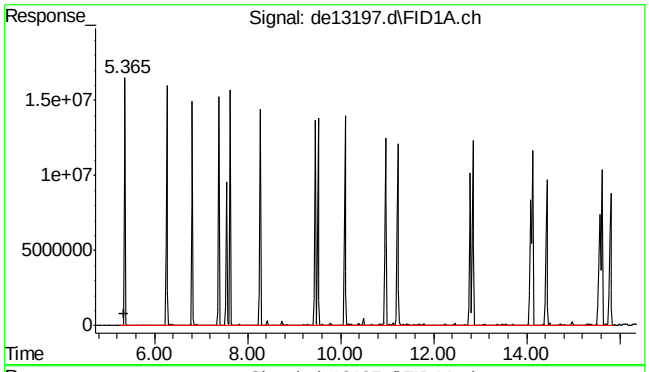
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



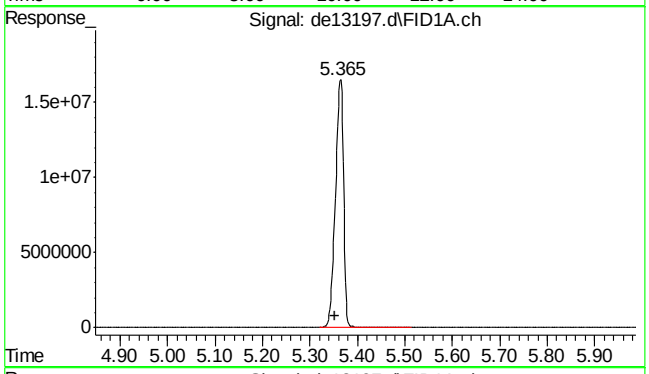


SGS ACCUTEST MC45611



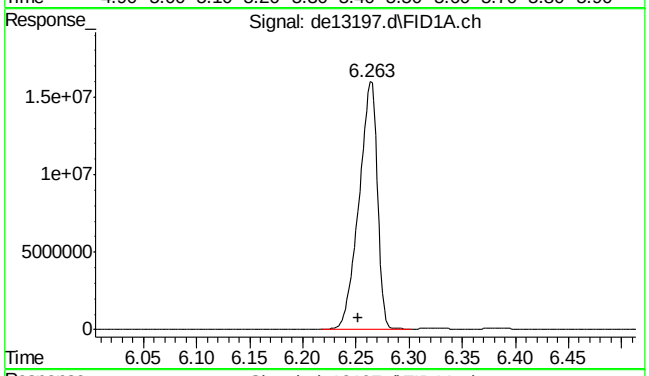
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



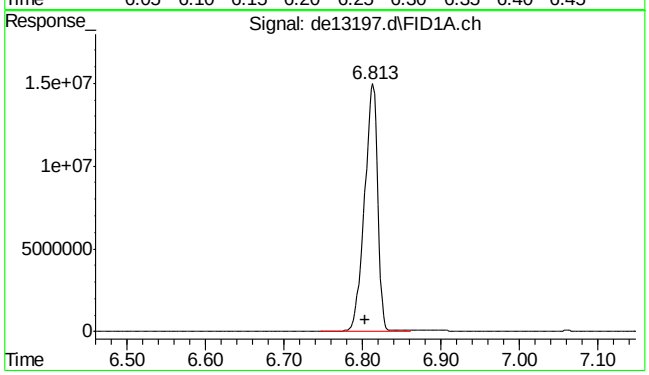
#2 naphthalene

R.T.: 5.365 min
Delta R.T.: 0.012 min
Response: 19450620
Conc: 187.64 µg/ml



#3 2-methylnaphthalene

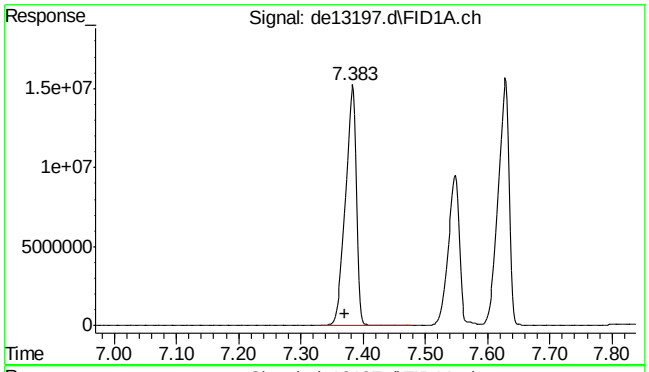
R.T.: 6.263 min
Delta R.T.: 0.011 min
Response: 19131536
Conc: 185.70 µg/ml



#4 2-fluorobiphenyl

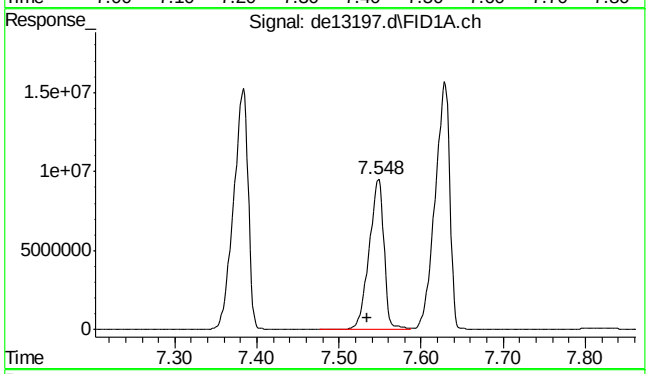
R.T.: 6.813 min
Delta R.T.: 0.010 min
Response: 17171697
Conc: 185.15 µg/ml

SGS ACCUTEST MC45611



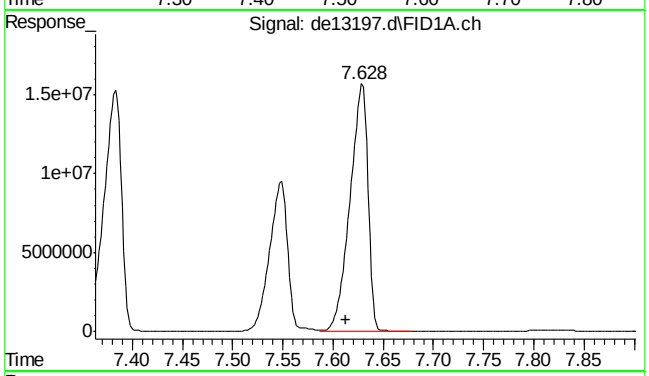
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



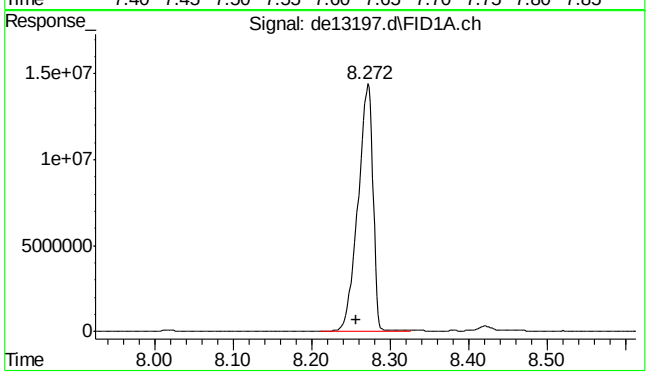
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



#7 acenaphthene

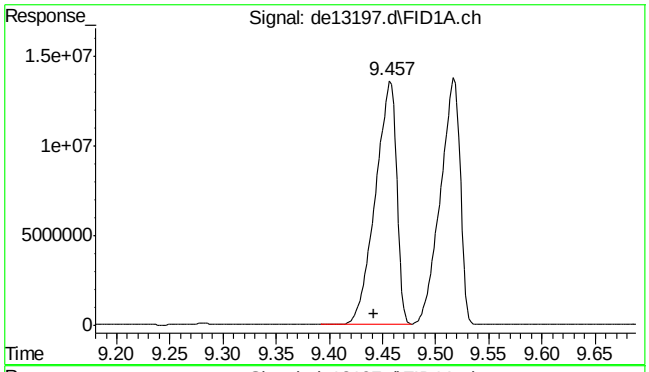
R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



#8 fluorene

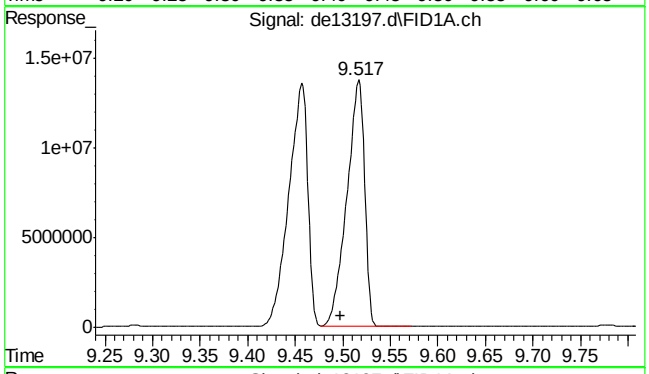
R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml

SGS ACCUTEST MC45611



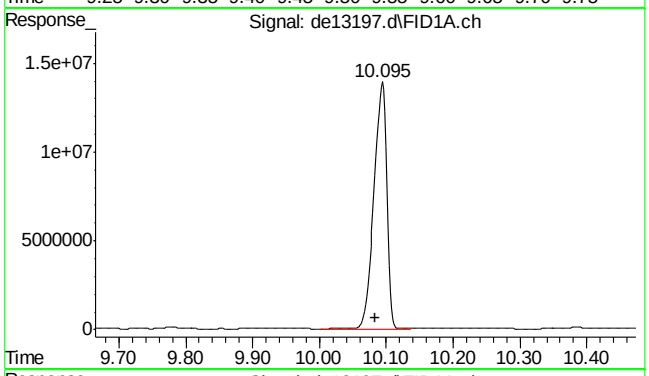
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



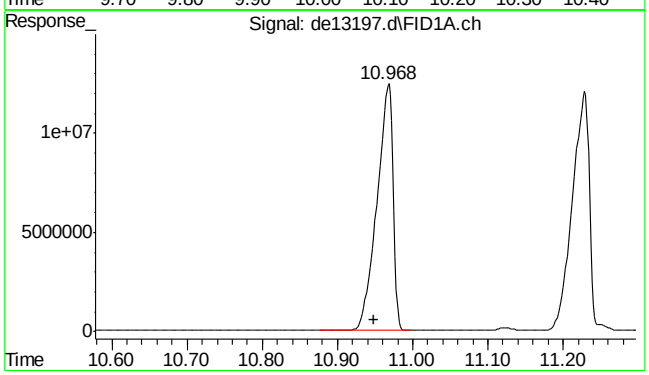
#10 anthracene

R.T.: 9.517 min
Delta R.T.: 0.019 min
Response: 17945874
Conc: 184.82 µg/ml



#11 o-terphenyl

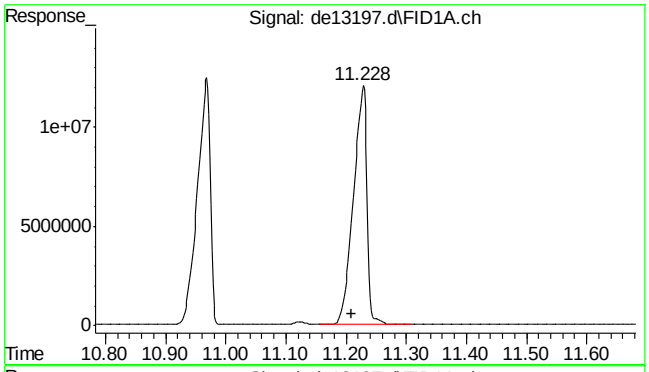
R.T.: 10.095 min
Delta R.T.: 0.012 min
Response: 18995194
Conc: 184.43 µg/ml



#12 fluoranthene

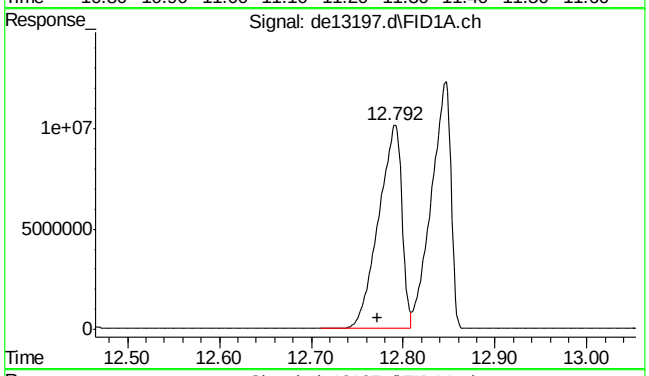
R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml

SGS ACCUTEST MC45611



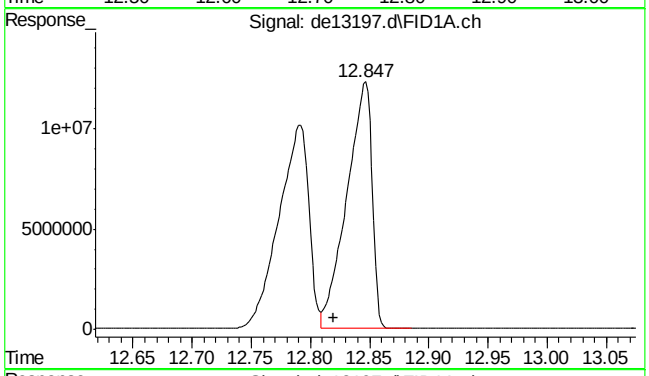
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



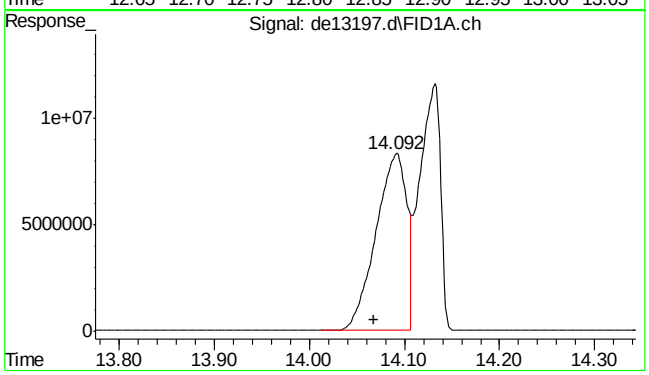
#14 benzo(a)anthracene

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



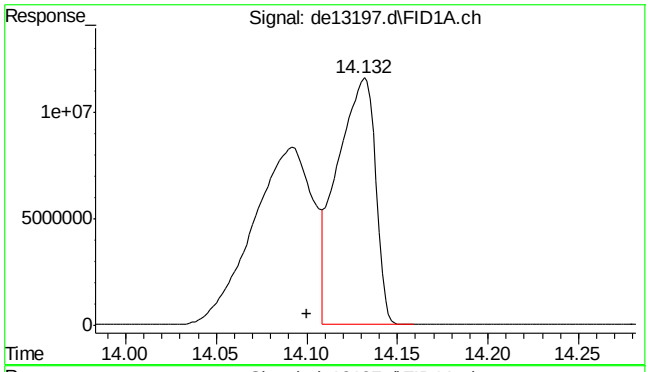
#16 benzo(B)fluoranthene

R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml

9.5.7

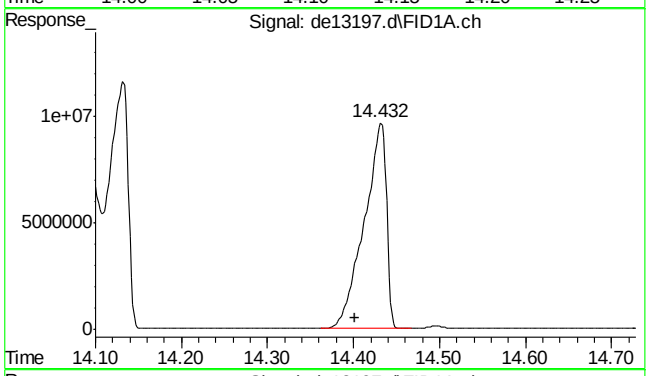
9

SGS ACCUTEST MC45611



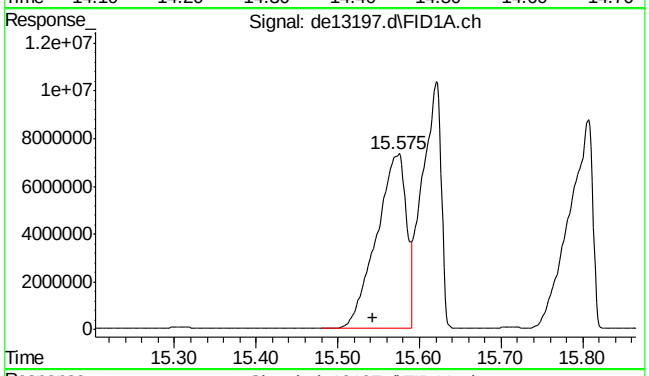
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



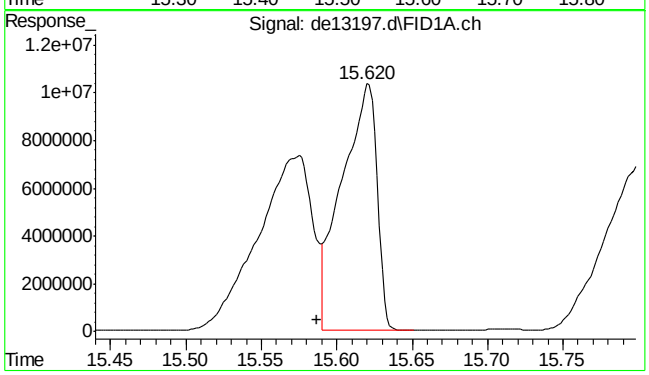
#18 benzo(a)pyrene

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



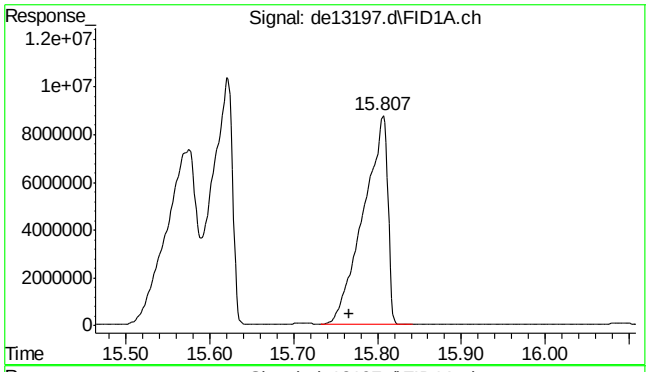
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m

9.5.7

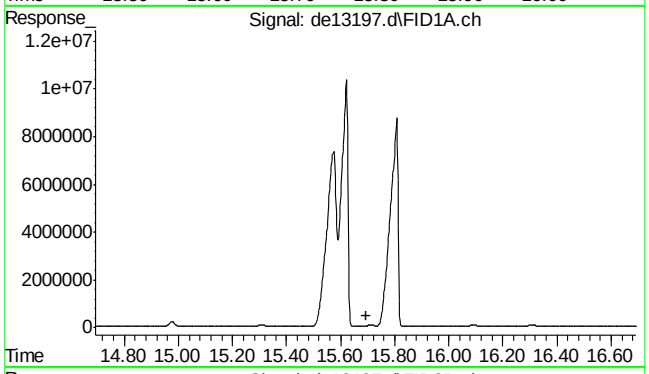
9

SGS ACCUTEST MC45611



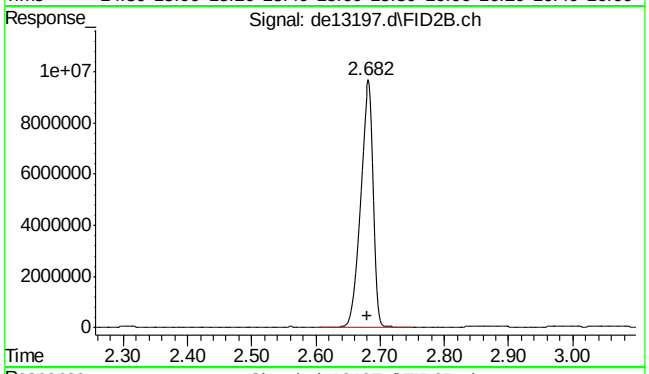
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



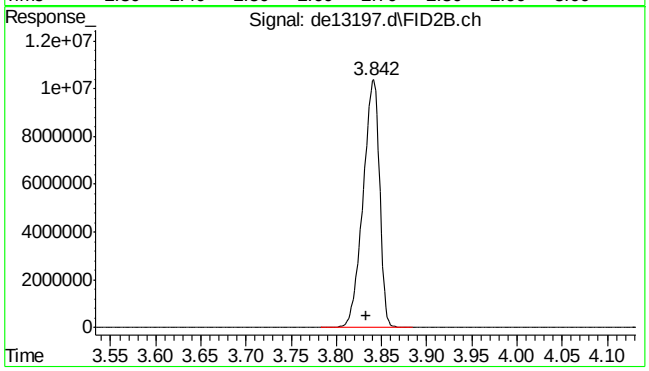
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



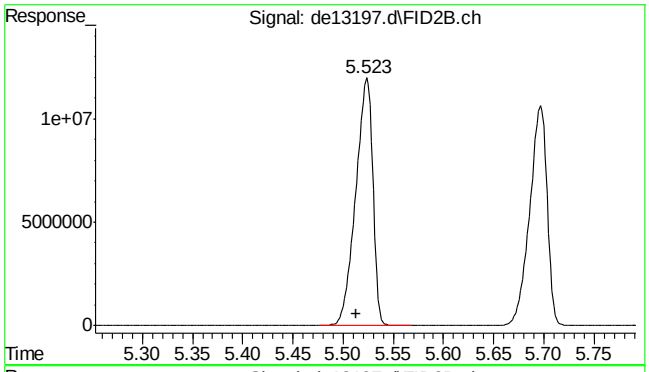
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 13093571
Conc: 173.26 µg/ml m



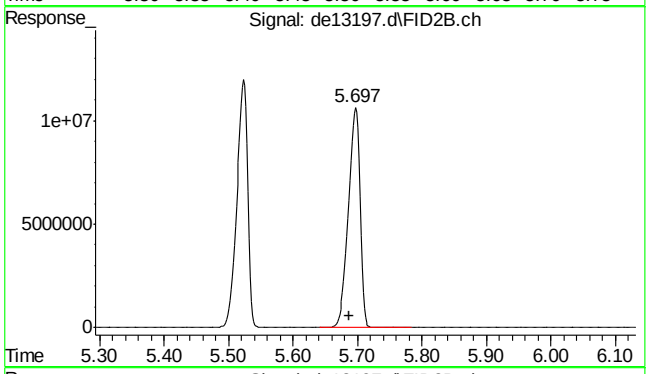
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml



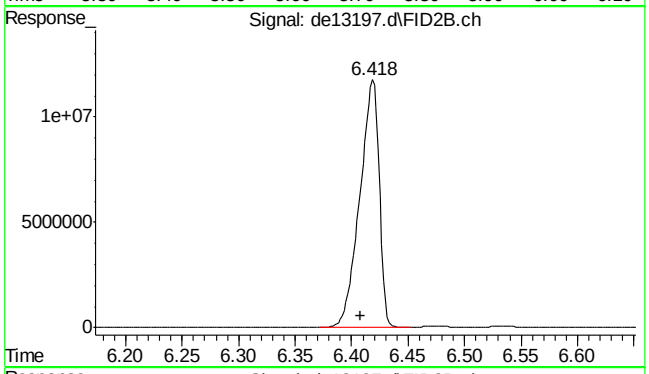
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



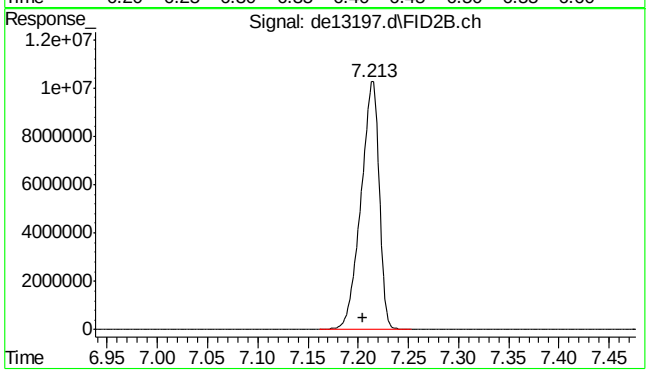
#28 c-12

R.T.: 5.697 min
Delta R.T.: 0.009 min
Response: 12963152
Conc: 171.35 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.418 min
Delta R.T.: 0.010 min
Response: 13931230
Conc: 172.09 µg/ml



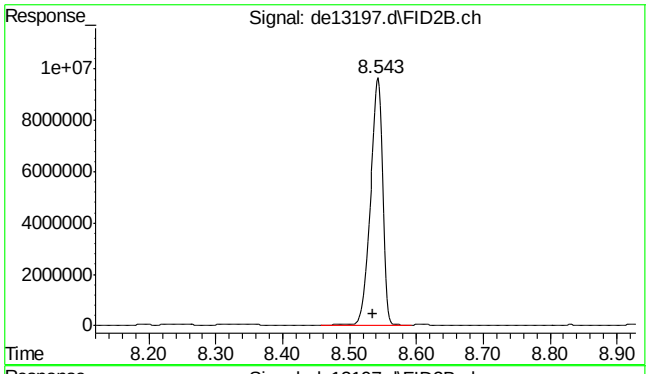
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.5.7

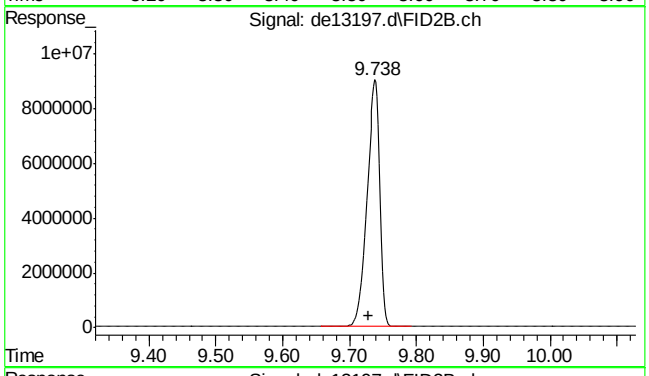
9

SGS ACCUTEST MC45611



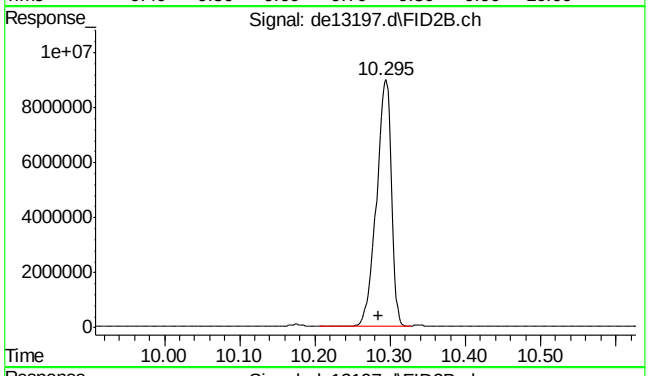
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



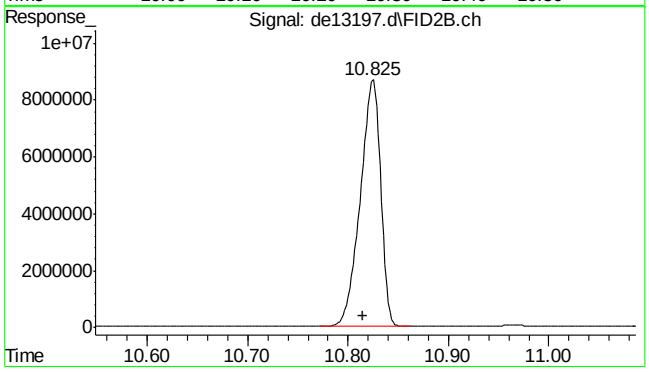
#32 c-18

R.T.: 9.738 min
Delta R.T.: 0.010 min
Response: 12493898
Conc: 168.99 µg/ml



#33 c-19

R.T.: 10.295 min
Delta R.T.: 0.010 min
Response: 12406524
Conc: 171.31 µg/ml



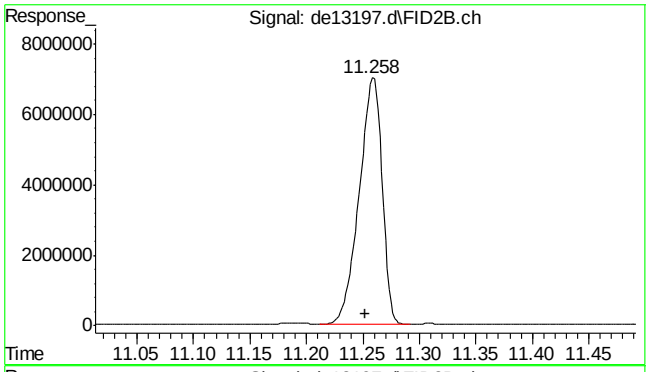
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.5.7

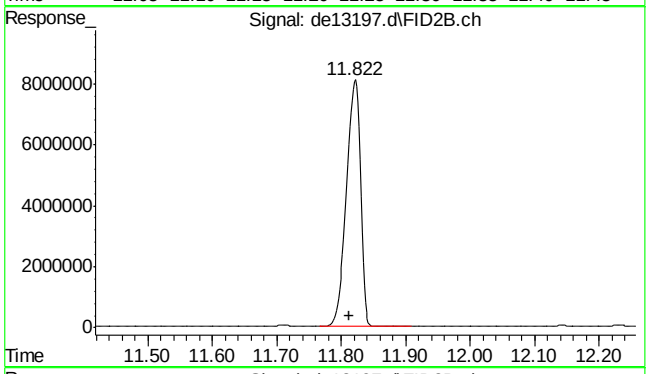
9

SGS ACCUTEST MC45611



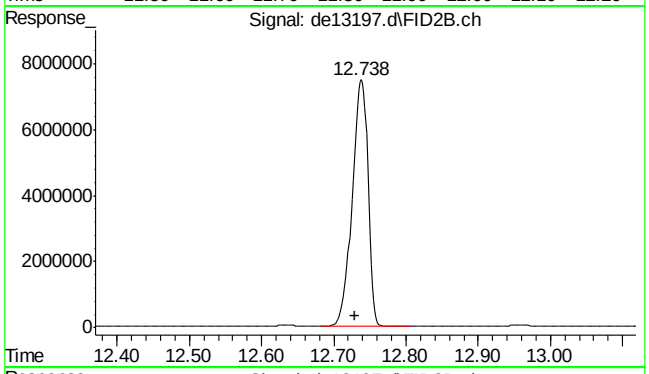
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



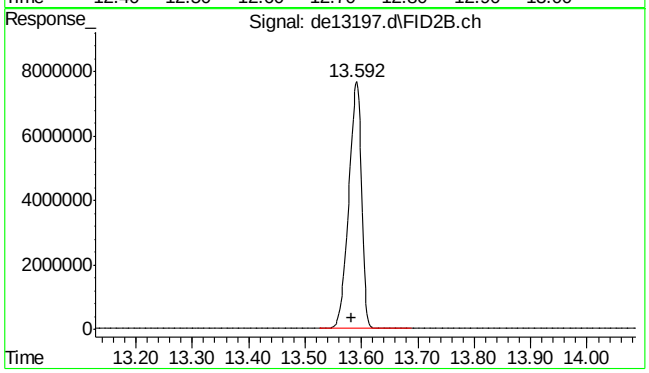
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



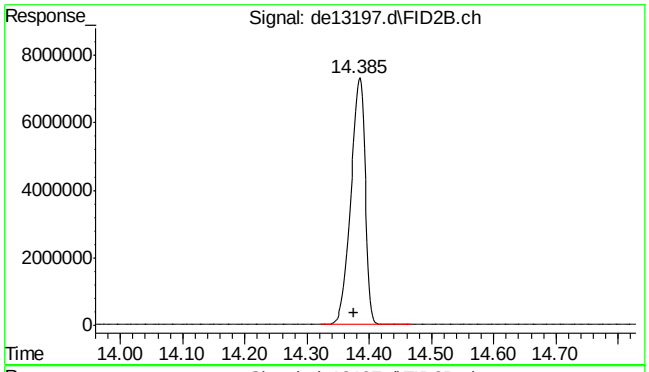
#37 c-24

R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



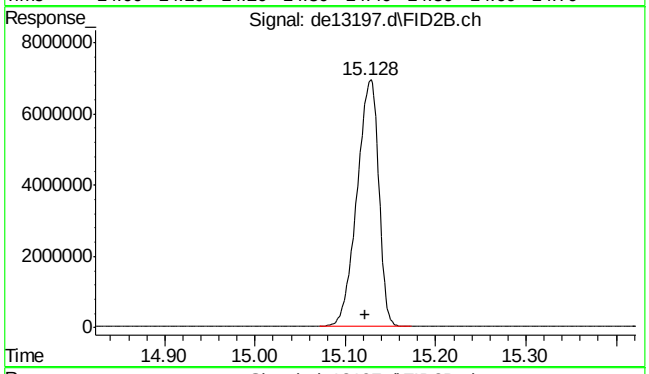
#38 c-26

R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml



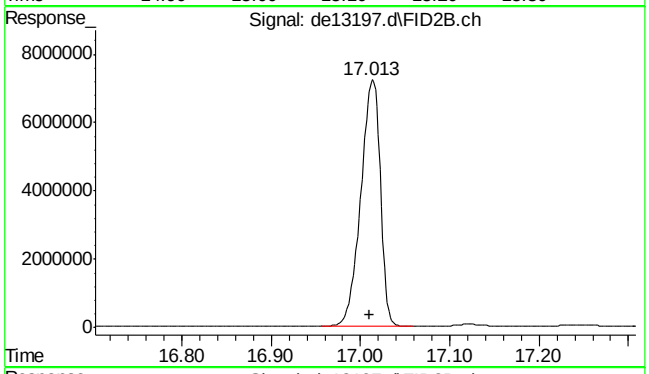
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



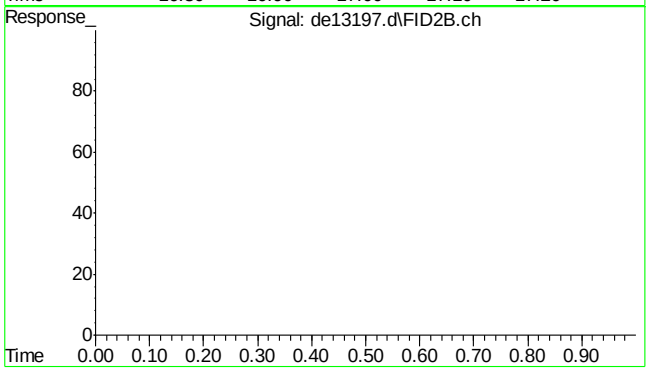
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 11593413
Conc: 170.86 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 10854654
Conc: 179.92 µg/ml m



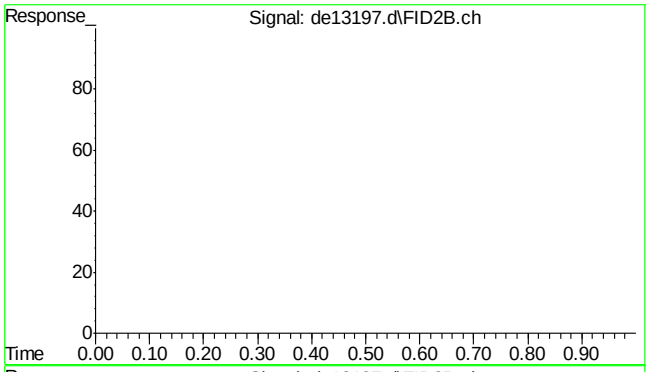
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.7

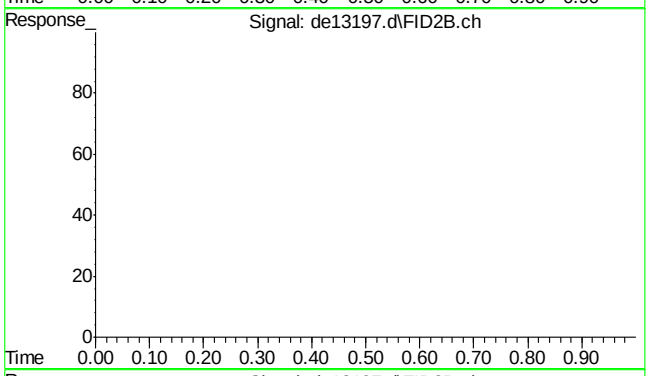
9

SGS ACCUTEST MC45611



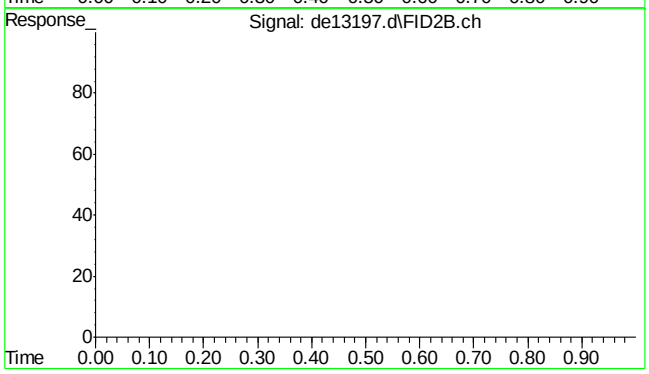
#43 bht

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

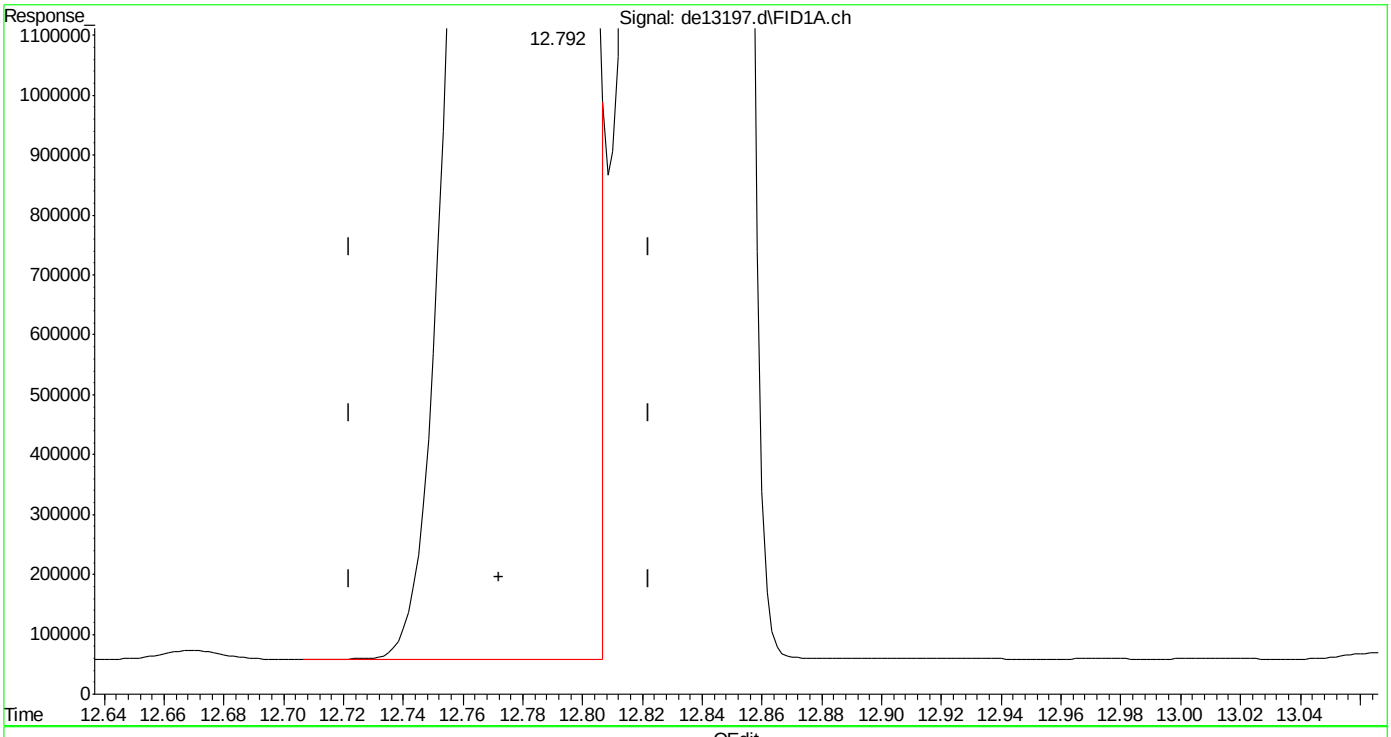
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

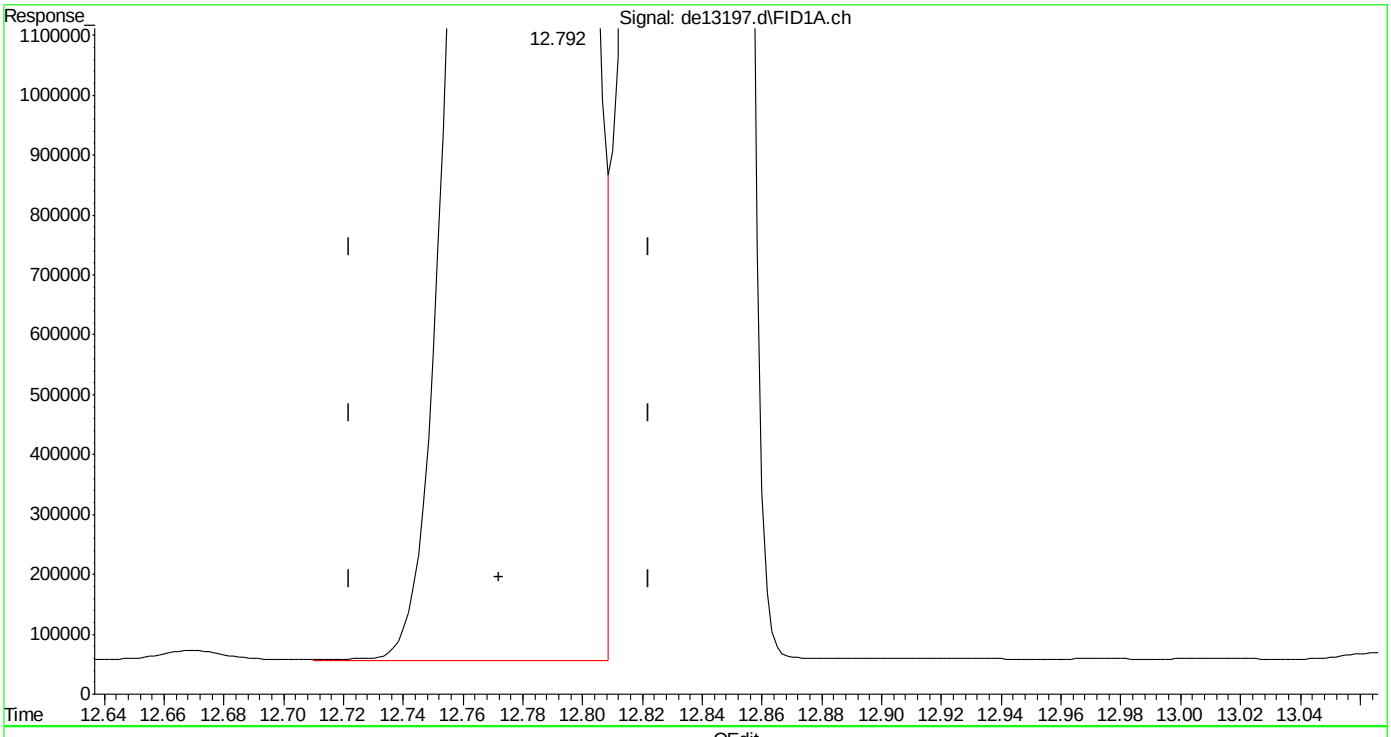
SGS ACCUTEST MC45611

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

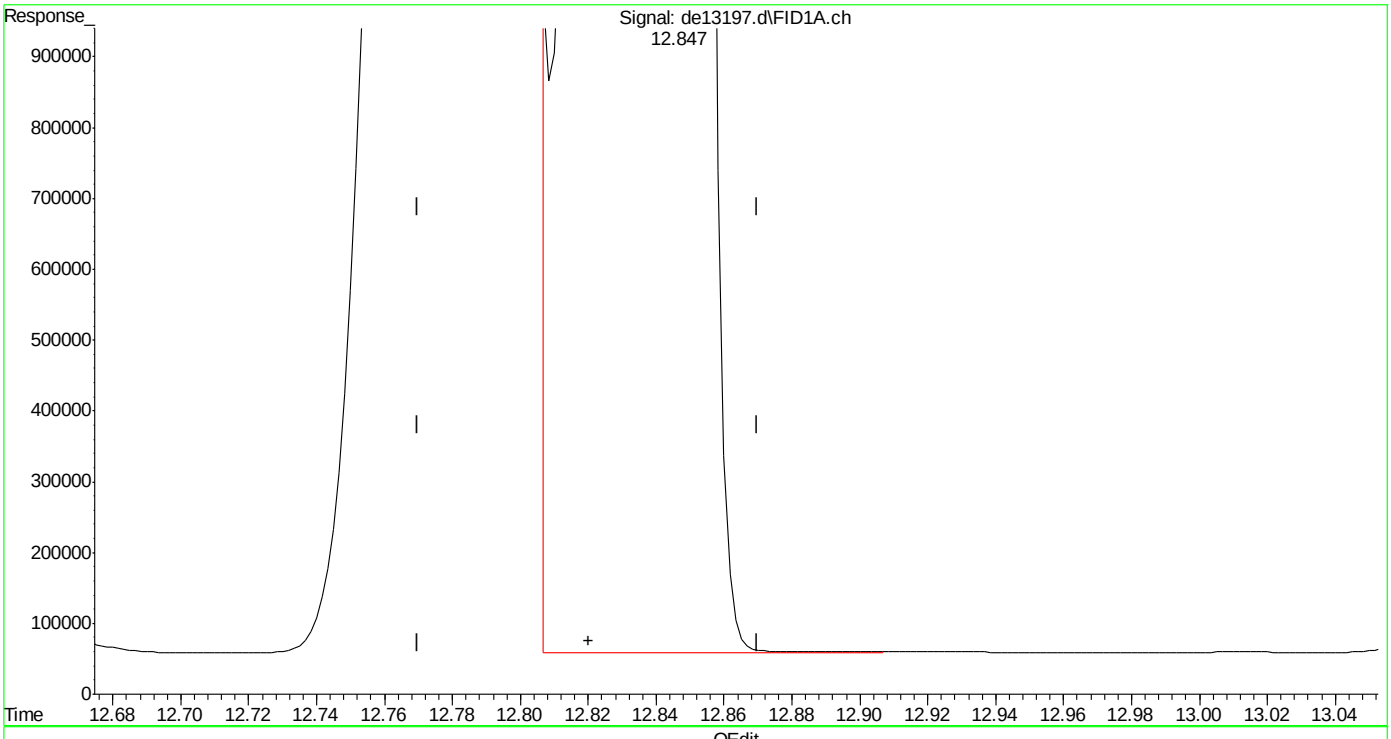
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

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

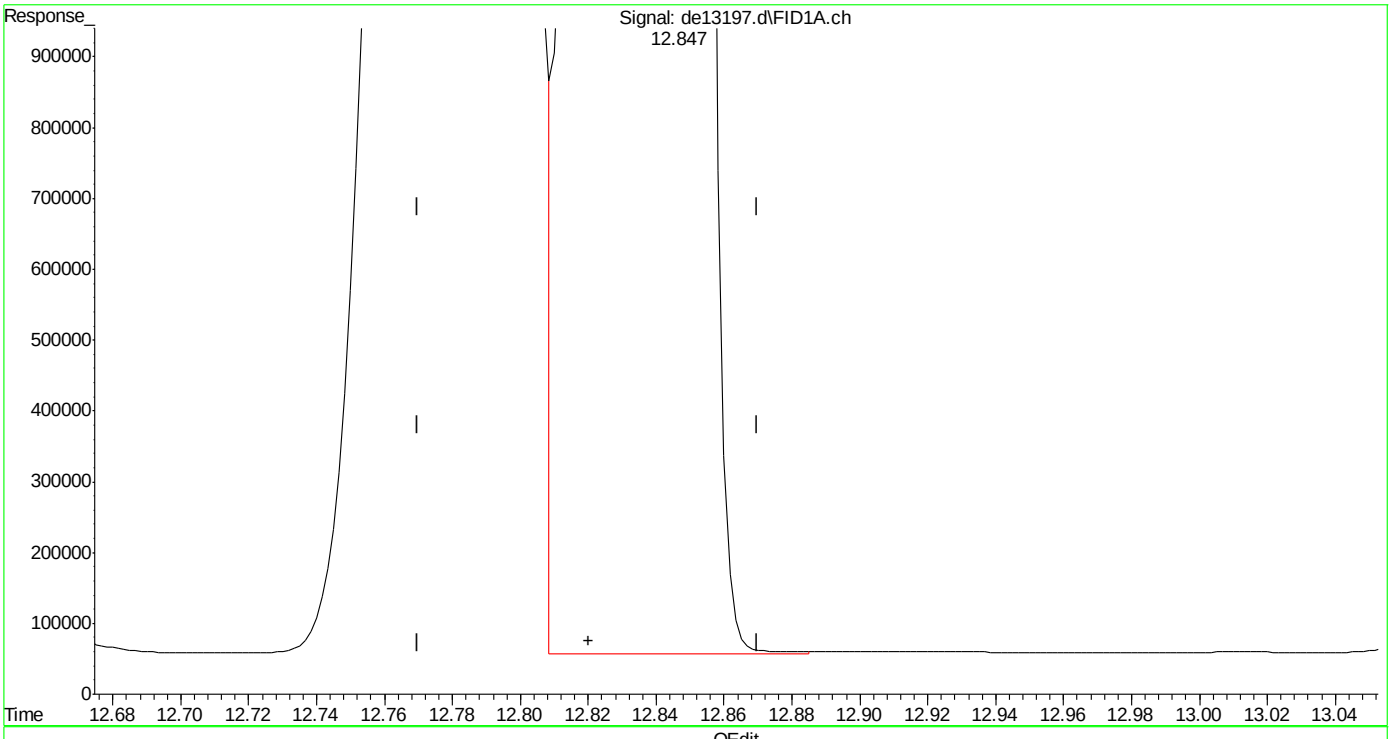
(+) = Expected Retention Time

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

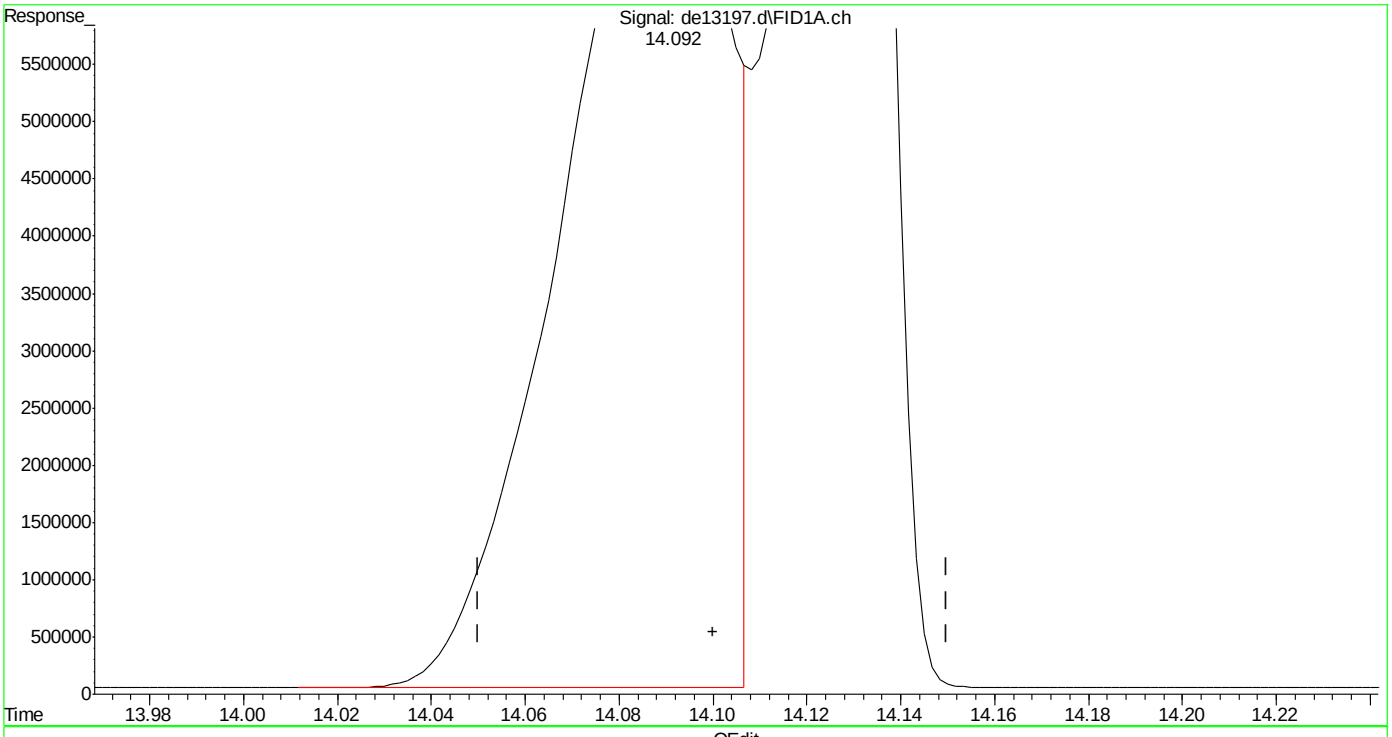
SGS ACCUTEST MC45611

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

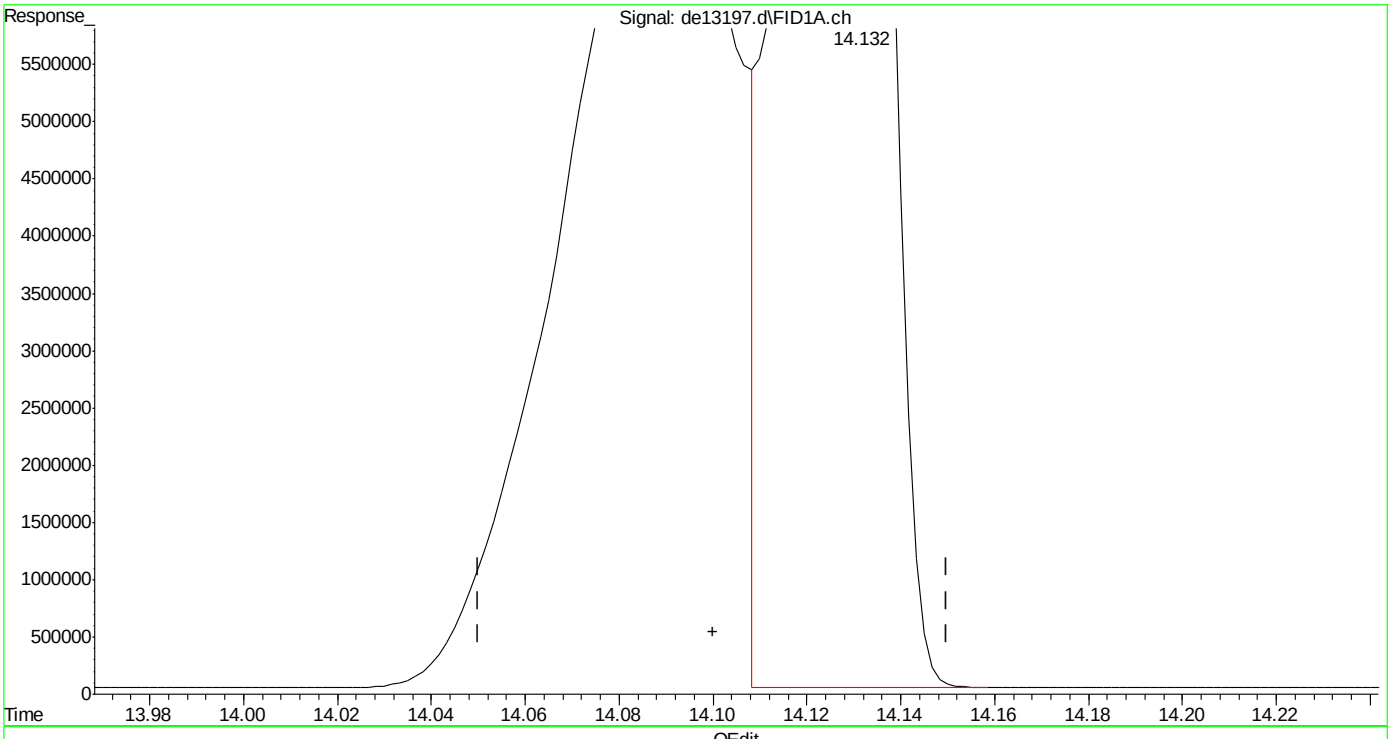
SGS ACCUTEST MC45611

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

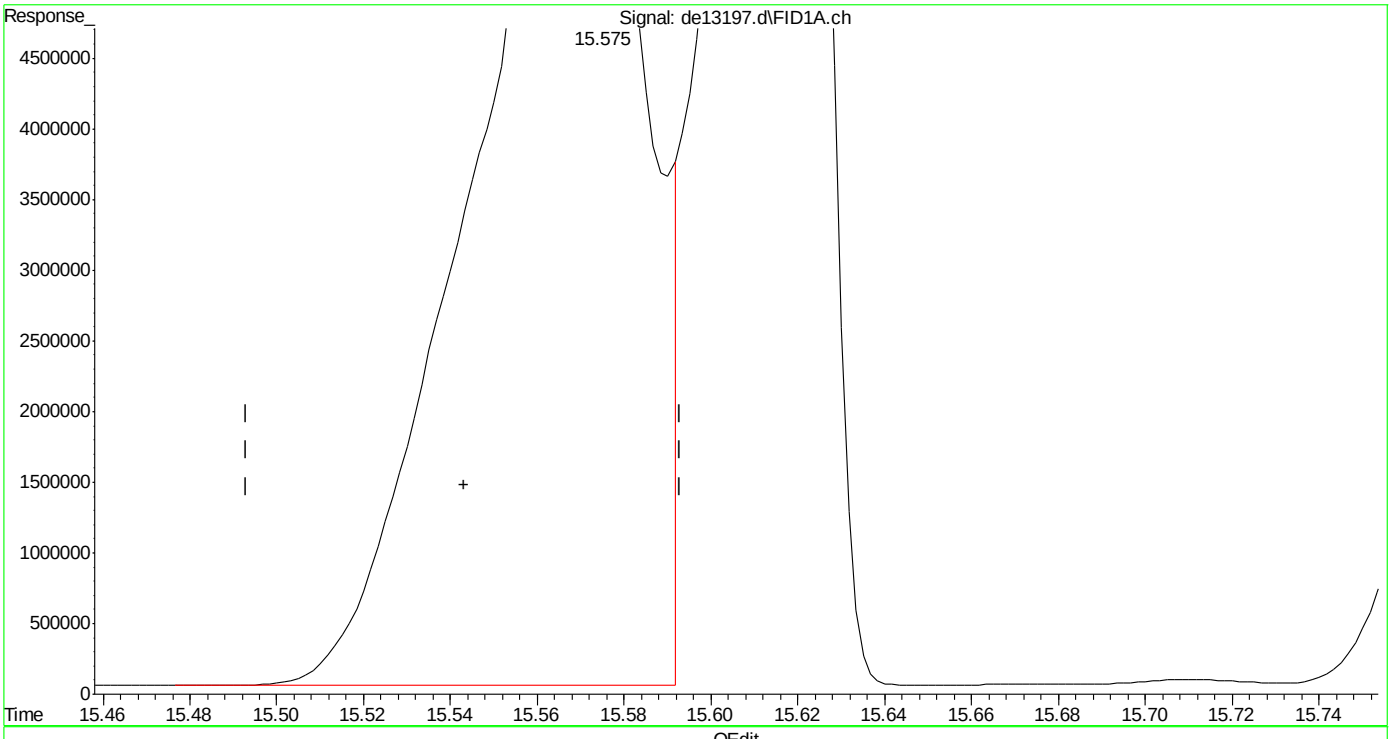
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.575min 197.907 µg/ml
response 19040403

(+) = Expected Retention Time

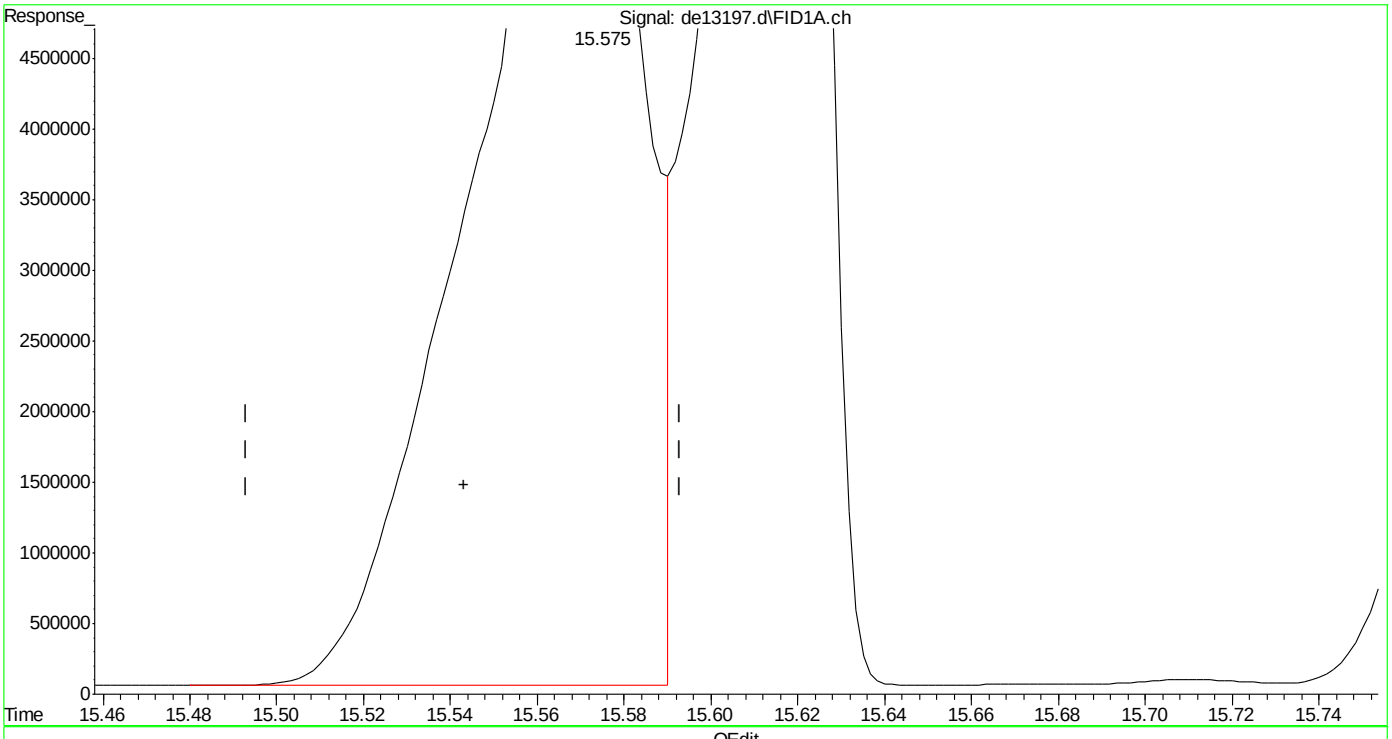
SGS ACCUTEST MC45611

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

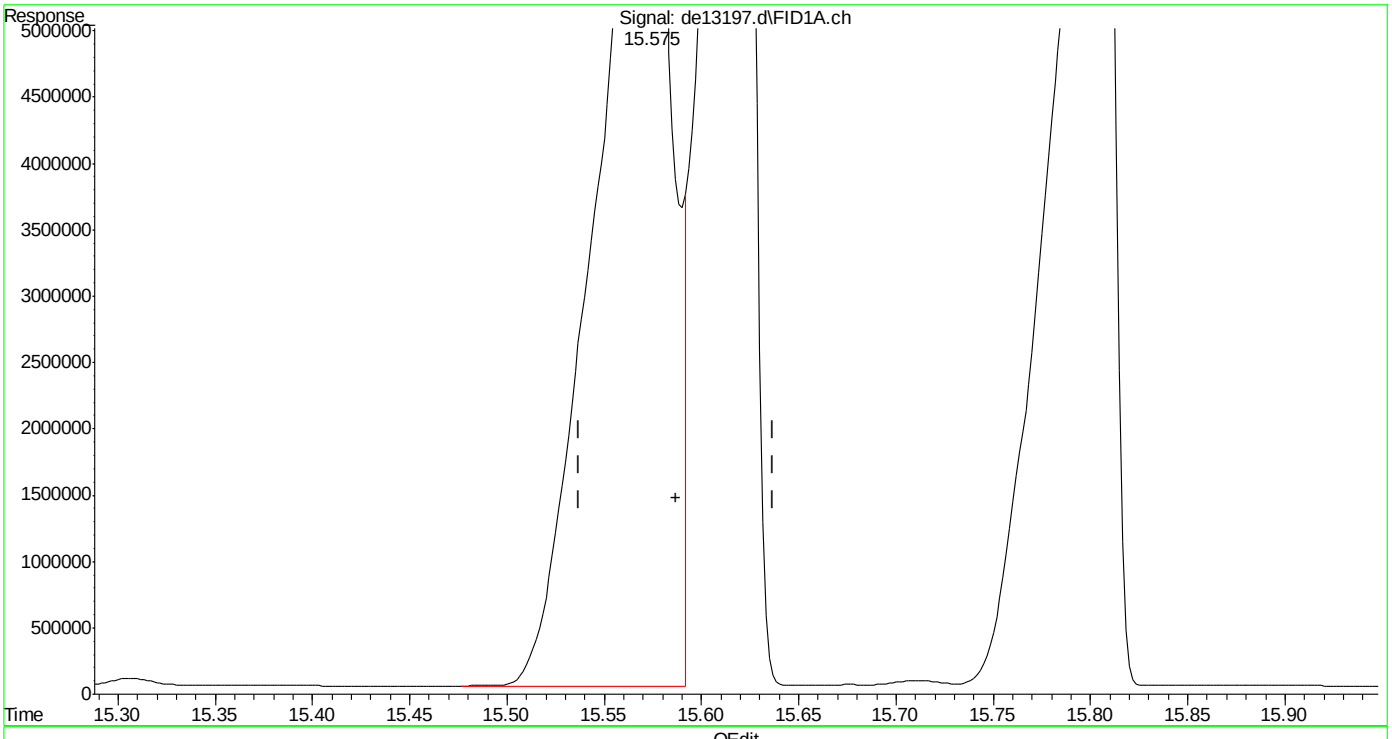
EPH160204M.M Fri Feb 05 11:05:03 2016 Page: 1

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 :



(20) dibenzo(ah)anthracene
15.575min 206.498 µg/ml
response 19040403

(+) = Expected Retention Time

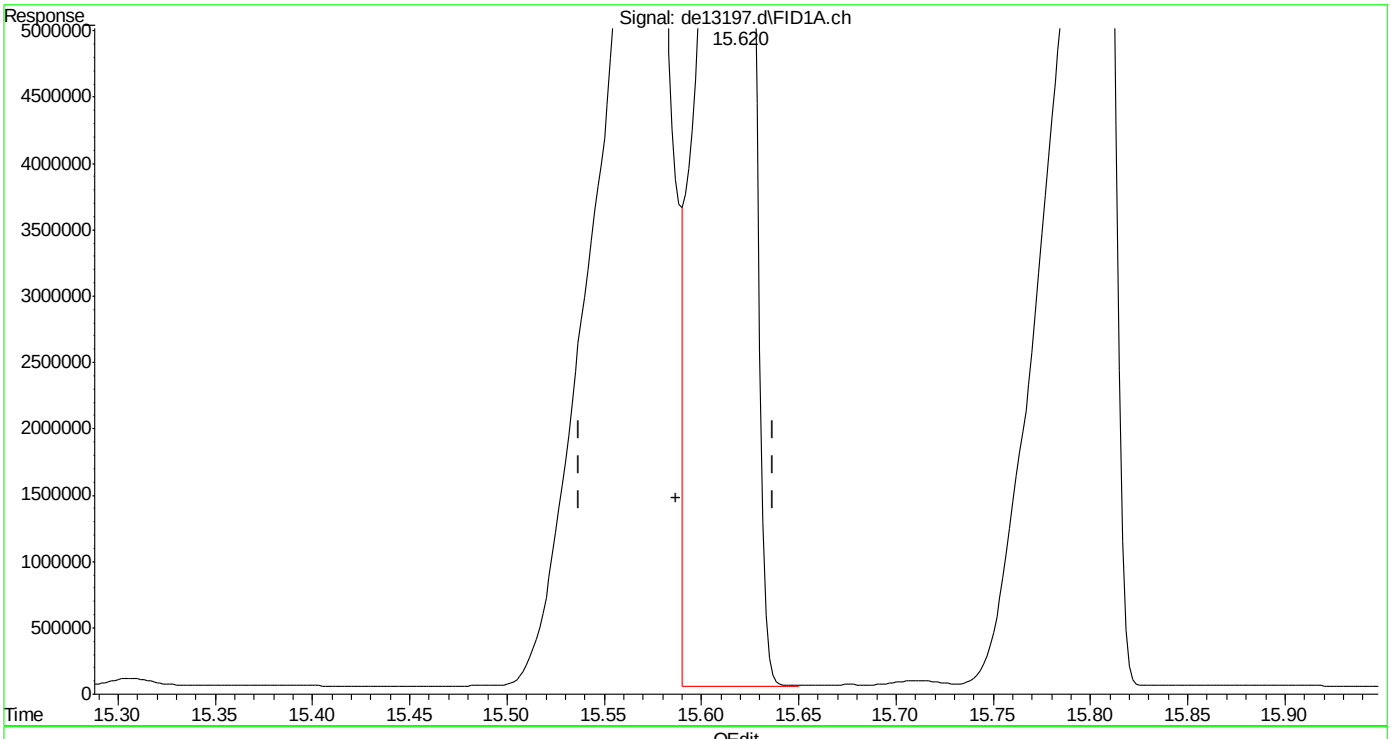
SGS ACCUTEST MC45611

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

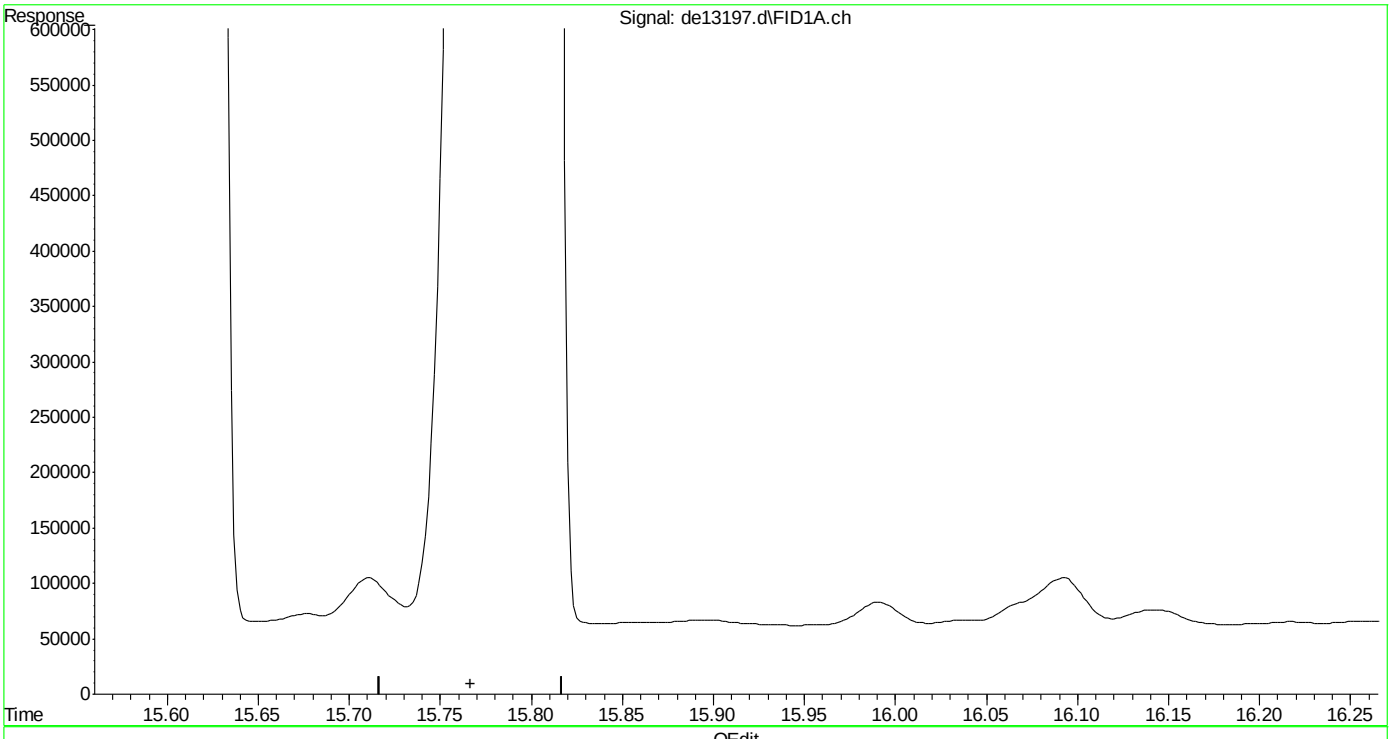
SGS ACCUTEST MC45611

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

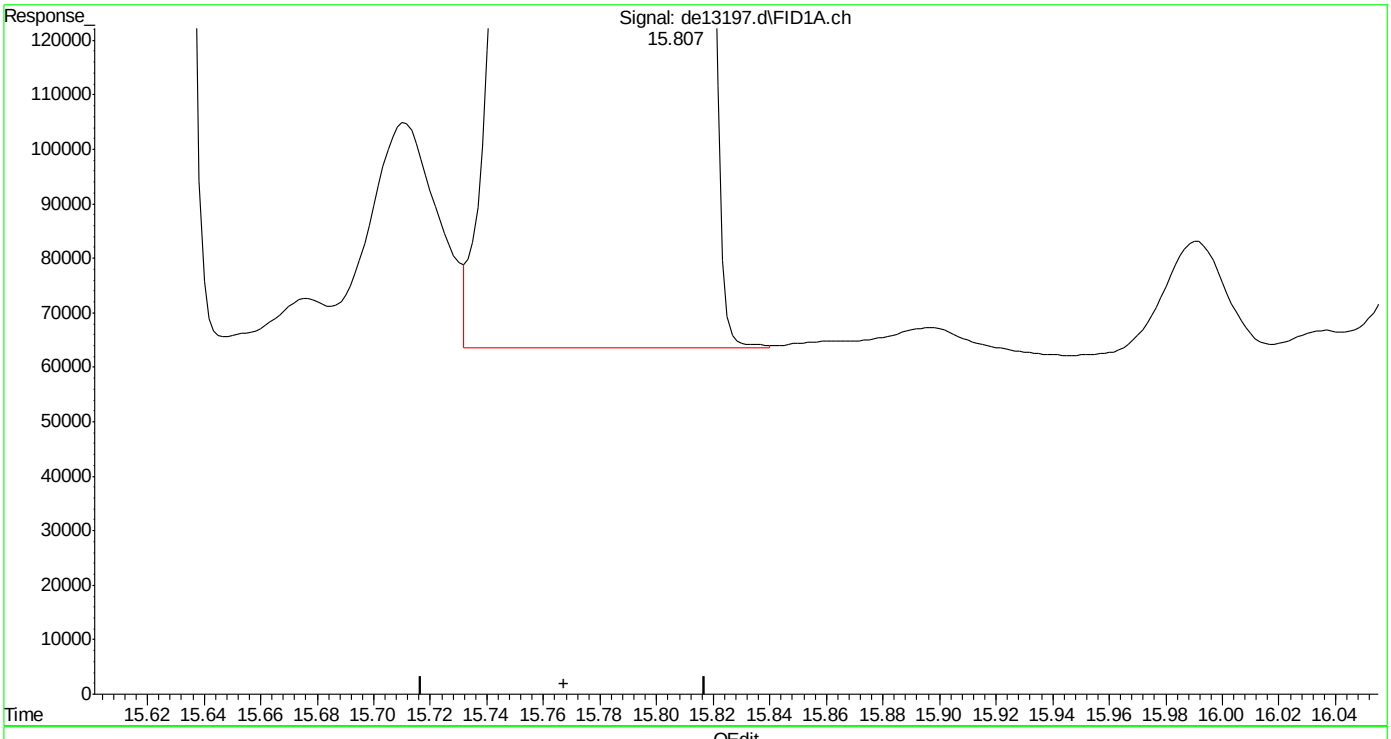
SGS ACCUTEST MC45611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(21) benzo(ghi)perylene
15.807min 188.129 µg/ml m
response 17523714

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:54 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.807	4785763	51.889 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.44%#	
6) s 2-bromonaphthalene	7.540	3261205	51.967 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.83%#	
11) s o-terphenyl	10.085	5227790	51.039 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 255.20%#	
35) s 1-chlorooctadecane	11.252	2968966	52.479 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 262.39%#	
Target Compounds			
2) naphthalene	5.357	5321324	51.593 µg/ml
3) 2-methylnaphthalene	6.255	5225758	50.992 µg/ml
5) acenaphthylene	7.373	5189401	51.584 µg/ml
7) acenaphthene	7.617	5299977	51.269 µg/ml
8) fluorene	8.260	5216935	51.364 µg/ml
9) phenanthrene	9.443	5176102	50.864 µg/ml
10) anthracene	9.502	5163442	53.227 µg/ml
12) fluoranthene	10.953	5147188	51.502 µg/ml
13) pyrene	11.210	5076986	50.038 µg/ml
14) benzo(a)anthracene	12.773	5010585	51.829 µg/mlm
15) chrysene	12.822	4818393	49.500 µg/mlm
16) benzo(B)fluoranthene	14.070	5126155	51.778 µg/mlm
17) benzo(k)fluoranthene	14.102	4808431	50.882 µg/mlm
18) benzo(a)pyrene	14.405	4486318	48.535 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4825283	50.976 µg/ml
20) dibenzo(ah)anthracene	15.588	4714989	51.587 µg/ml
21) benzo(ghi)perylene	15.768	4765990	51.735 µg/ml
25) h c-9	2.680	3669865	49.679 µg/mlm
26) h c-10	3.833	3682081	49.844 µg/ml
27) naphthalene #2	5.515	4035939	50.530 µg/ml
28) c-12	5.688	3625160	49.073 µg/ml
29) 2-methylnaphthalene #2	6.408	3954192	49.080 µg/ml
30) c-14	7.205	3605226	48.804 µg/ml
31) c-16	8.535	3538485	47.900 µg/ml
32) c-18	9.730	3494684	47.307 µg/ml
33) c-19	10.285	3424371	51.258 µg/ml
34) c-20	10.817	3390870	50.757 µg/ml
36) c-22	11.812	3335369	49.926 µg/ml
37) c-24	12.730	3275936	49.036 µg/ml
38) c-26	13.582	3251556	48.671 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.375	3204302	47.964	µg/ml
40) h	c-30	15.122	3143578	47.055	µg/ml
41) h	c-36	17.010	2933493	43.910	µg/mlm

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

9.5.8

9

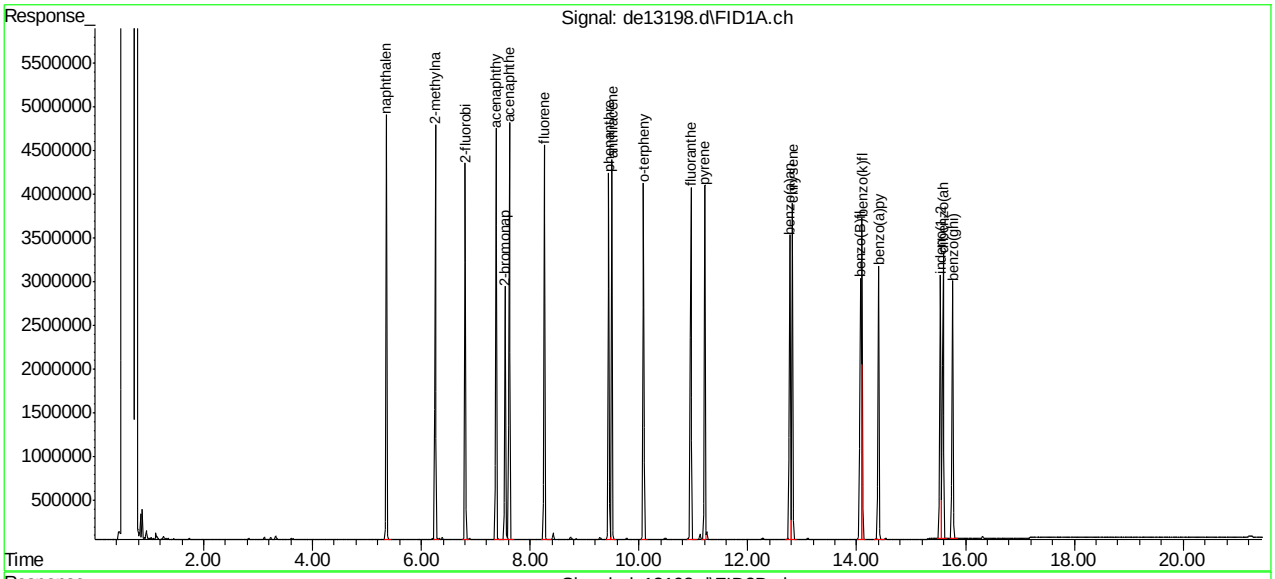
SGS ACCUTEST MC45611

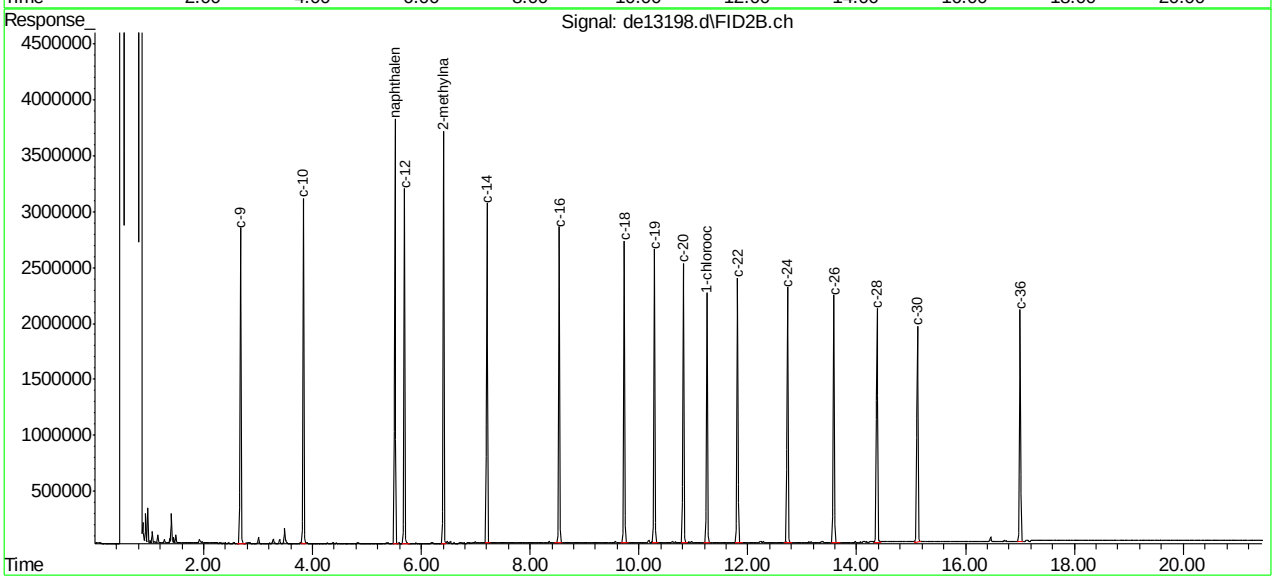
Quantitation Report (QT Reviewed)

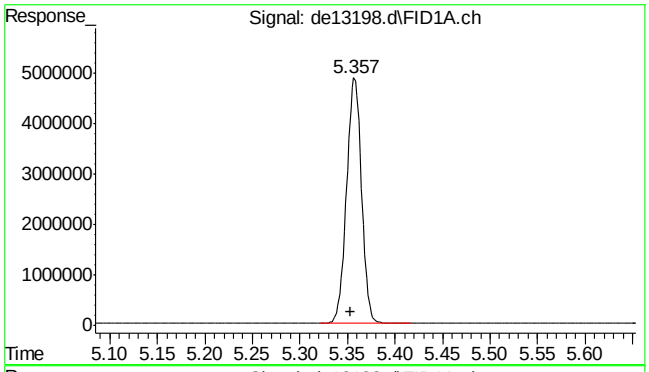
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

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 :

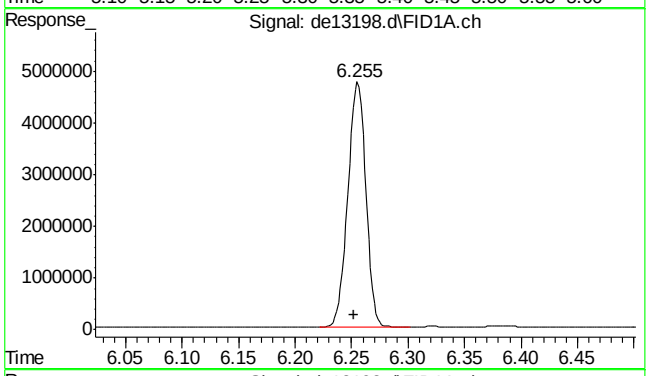






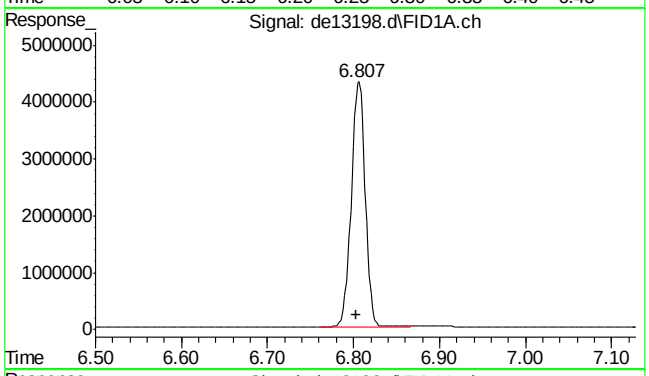
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



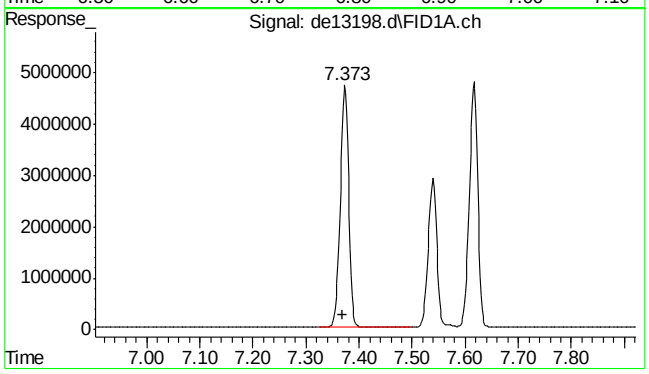
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



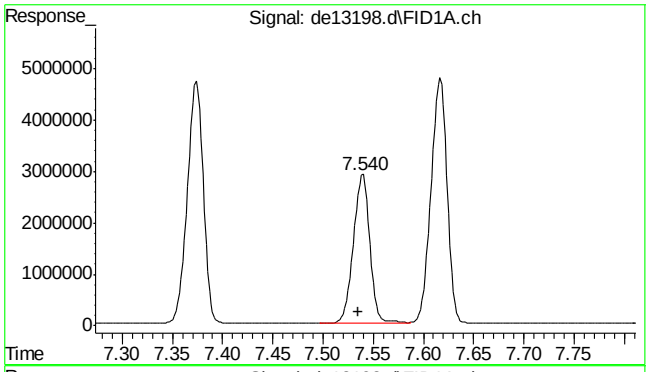
#5 acenaphthylene

R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

9.5.8

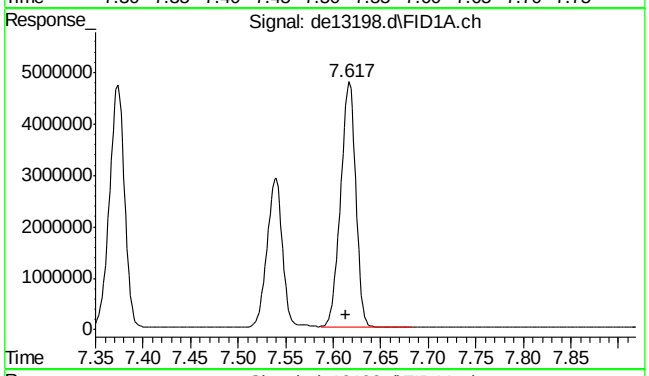
9

SGS ACCUTEST MC45611



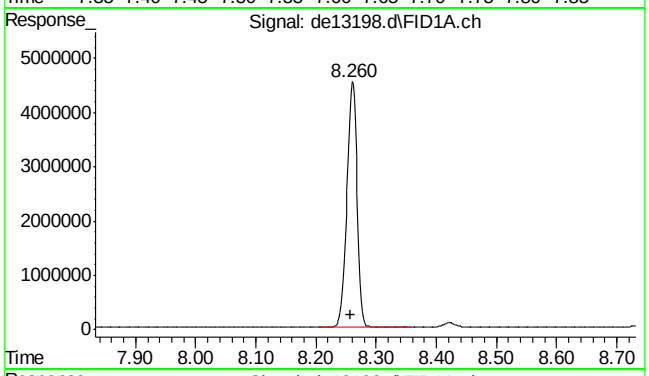
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



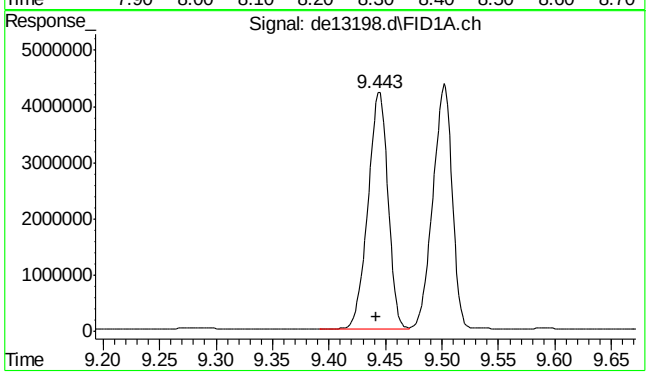
#7 acenaphthene

R.T.: 7.617 min
Delta R.T.: 0.004 min
Response: 5299977
Conc: 51.27 µg/ml



#8 fluorene

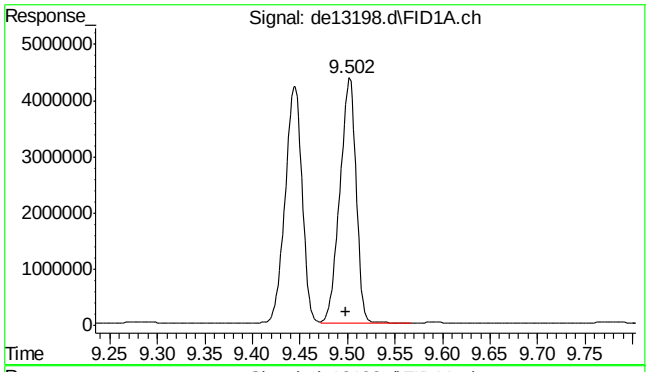
R.T.: 8.260 min
Delta R.T.: 0.003 min
Response: 5216935
Conc: 51.36 µg/ml



#9 phenanthrene

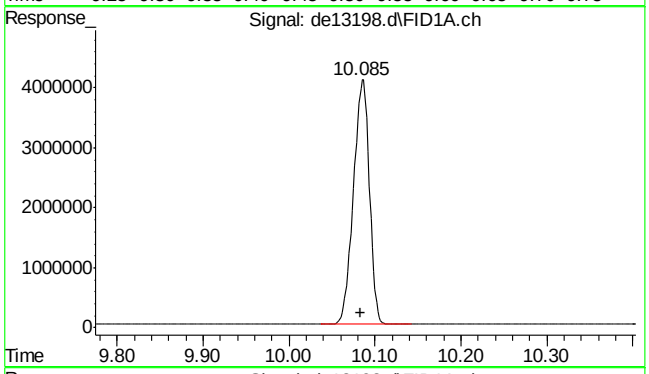
R.T.: 9.443 min
Delta R.T.: 0.001 min
Response: 5176102
Conc: 50.86 µg/ml

SGS ACCUTEST MC45611



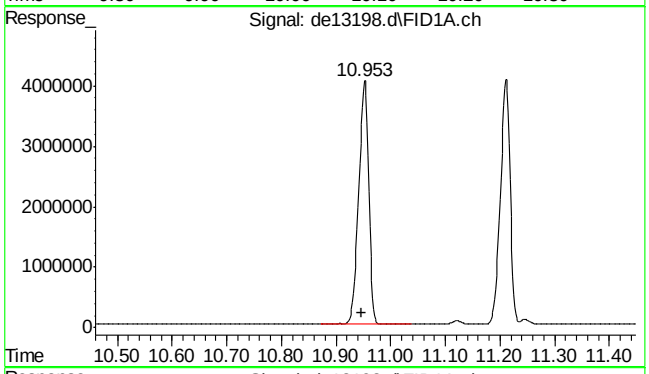
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



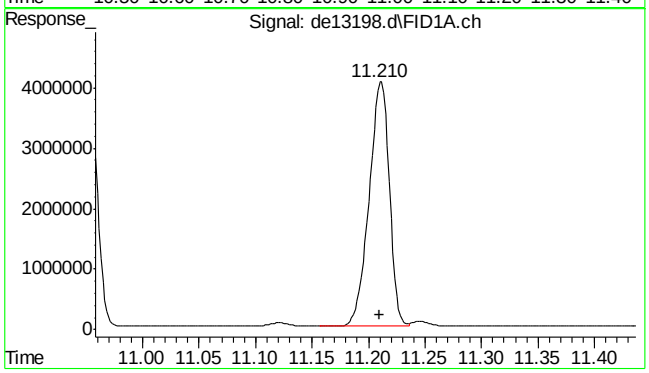
#11 o-terphenyl

R.T.: 10.085 min
Delta R.T.: 0.002 min
Response: 5227790
Conc: 51.04 µg/ml



#12 fluoranthene

R.T.: 10.953 min
Delta R.T.: 0.005 min
Response: 5147188
Conc: 51.50 µg/ml



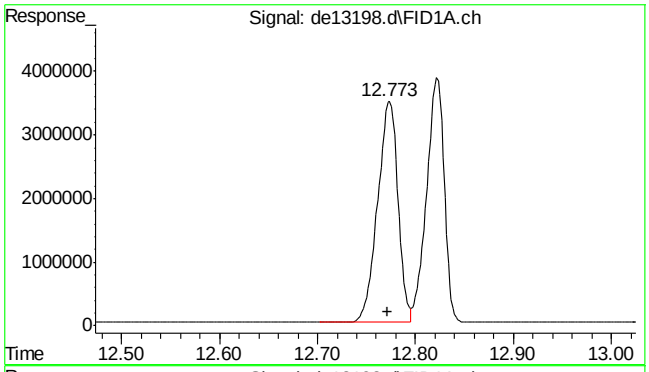
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.5.8

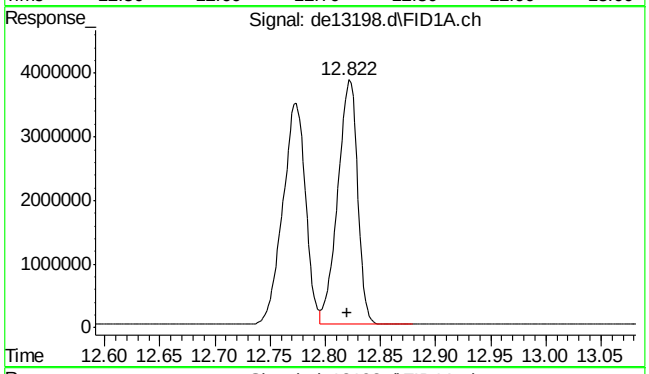
9

SGS ACCUTEST MC45611



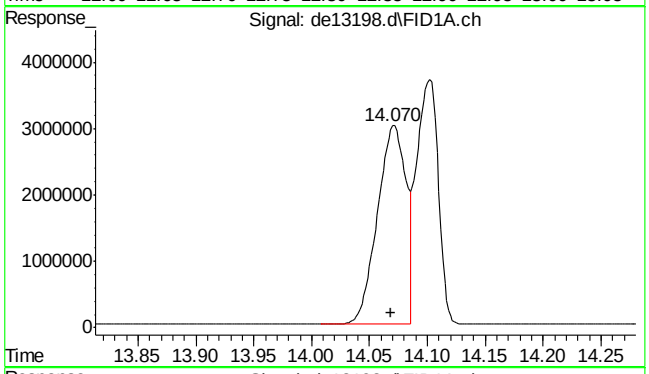
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



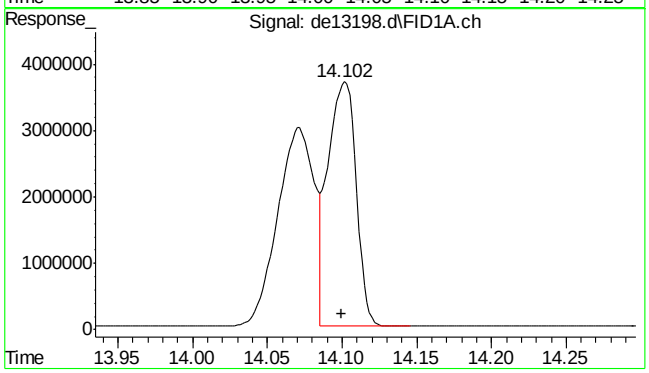
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



#16 benzo(B)fluoranthene

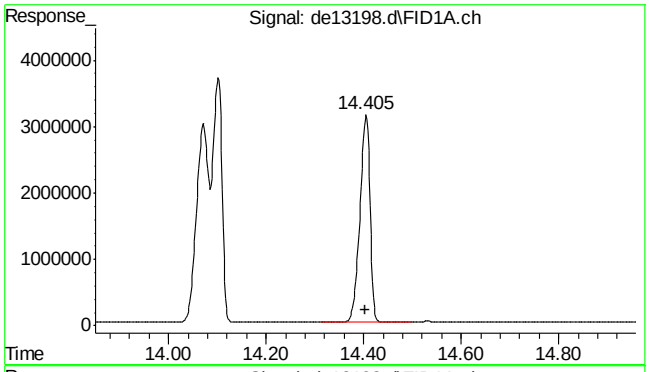
R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



#17 benzo(k)fluoranthene

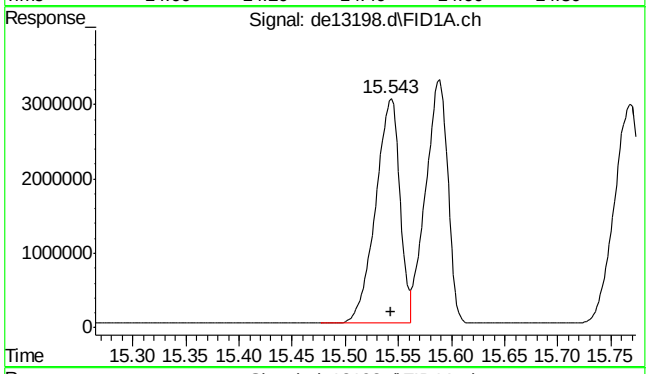
R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m

SGS ACCUTEST MC45611



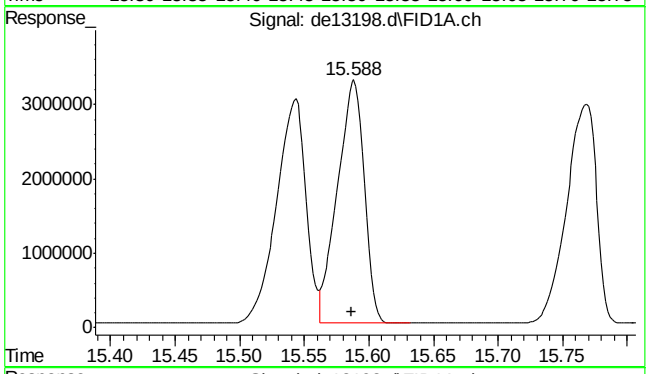
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



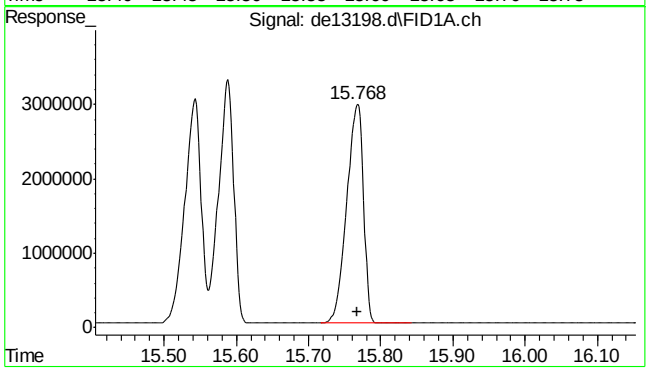
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4825283
Conc: 50.98 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.588 min
Delta R.T.: 0.001 min
Response: 4714989
Conc: 51.59 µg/ml



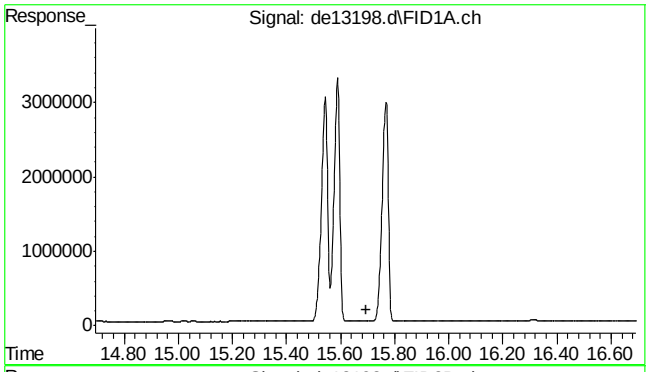
#21 benzo(ghi)perylene

R.T.: 15.768 min
Delta R.T.: 0.001 min
Response: 4765990
Conc: 51.73 µg/ml

9.5.8

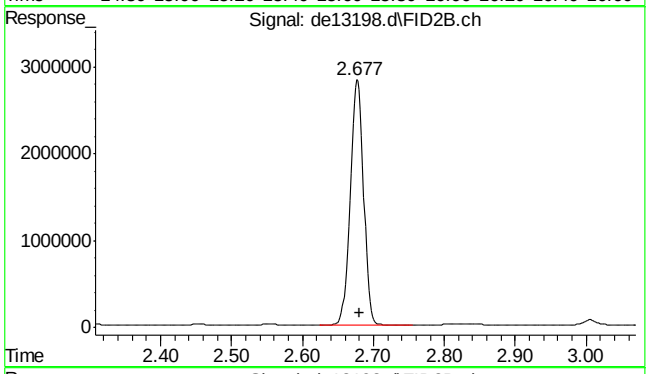
9

SGS ACCUTEST MC45611



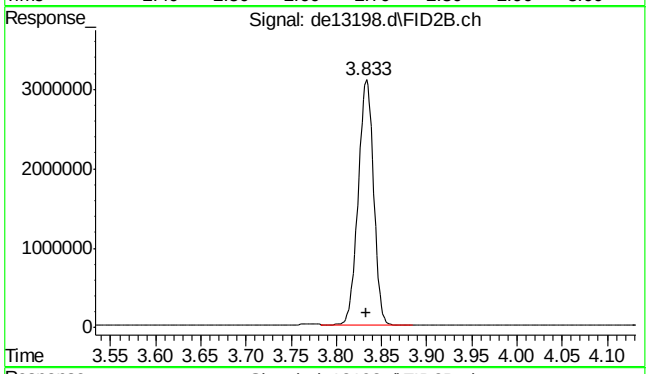
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



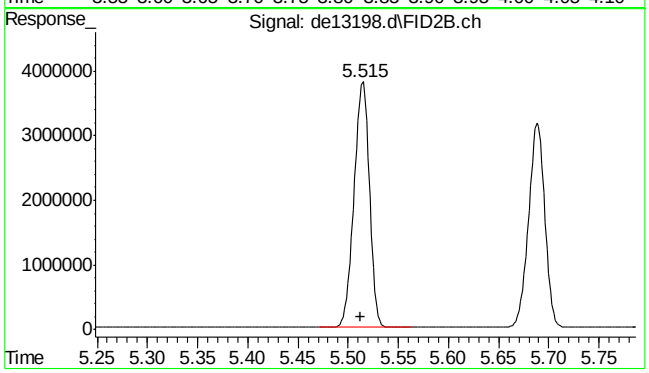
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3669865
Conc: 49.68 µg/ml m



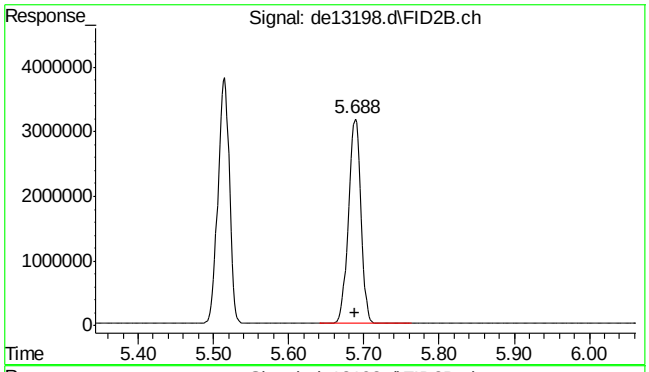
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3682081
Conc: 49.84 µg/ml



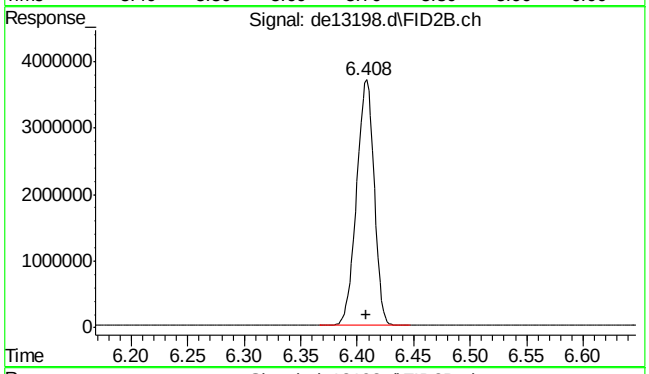
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml



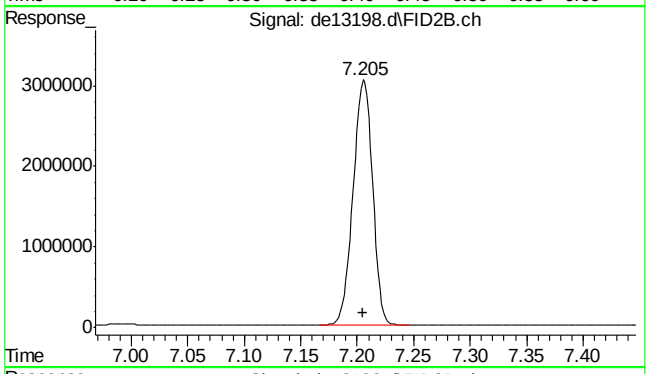
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



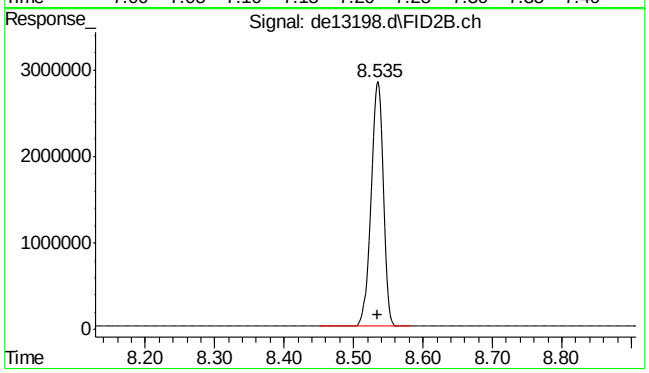
#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3954192
Conc: 49.08 µg/ml



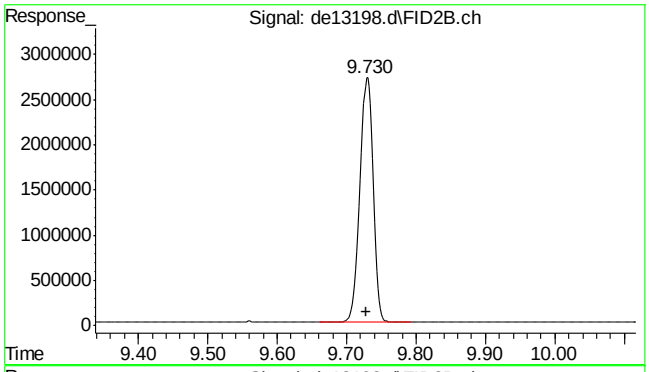
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3605226
Conc: 48.80 µg/ml



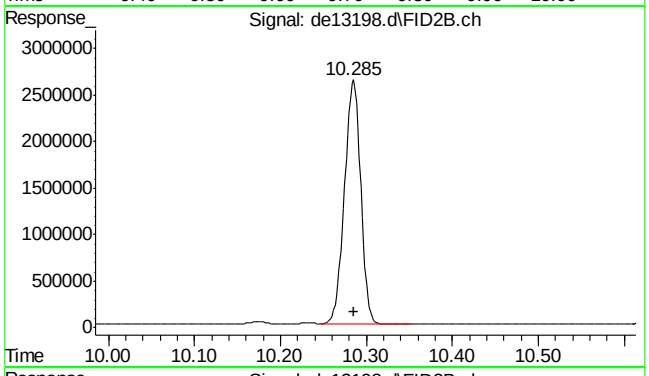
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml



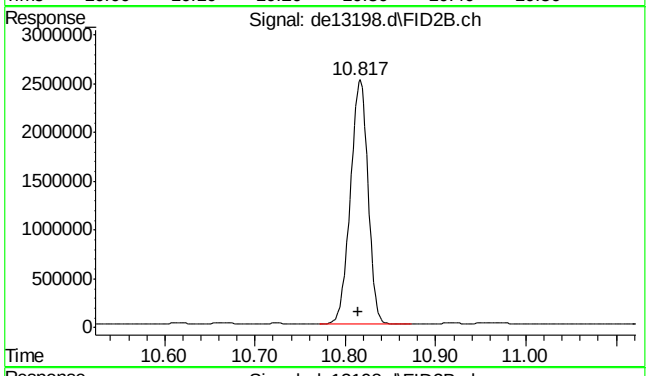
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



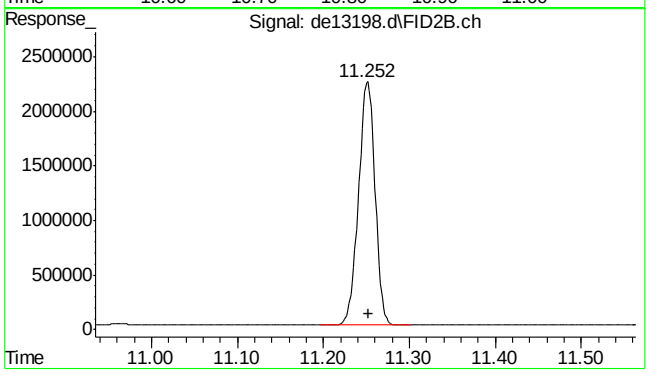
#33 c-19

R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3424371
Conc: 51.26 µg/ml



#34 c-20

R.T.: 10.817 min
Delta R.T.: 0.002 min
Response: 3390870
Conc: 50.76 µg/ml



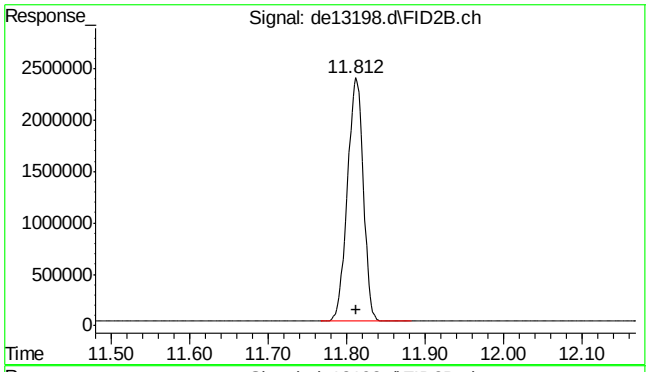
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

9.5.8

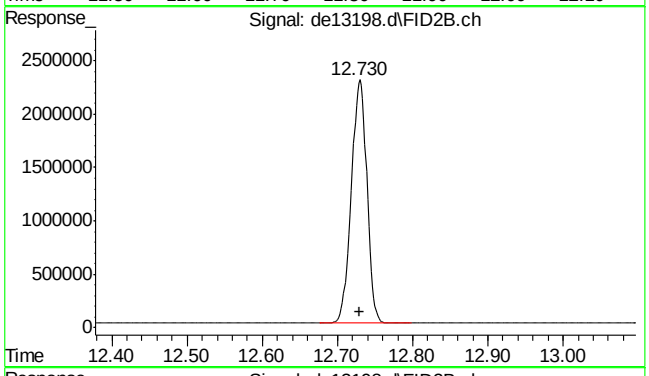
9

SGS ACCUTEST MC45611



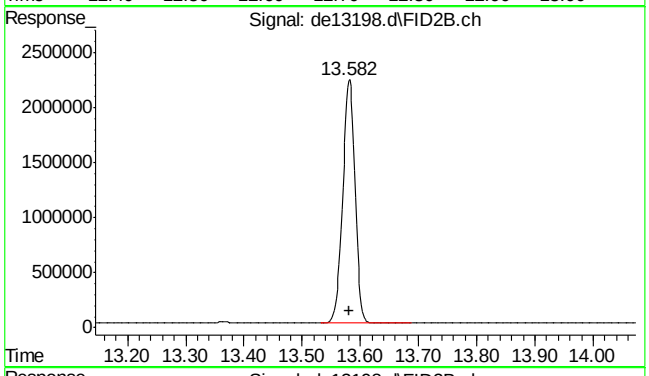
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



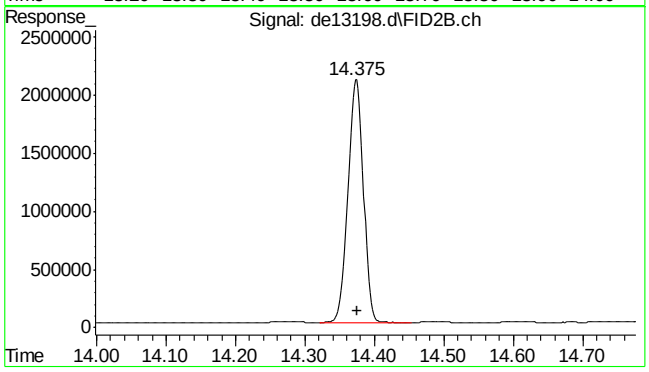
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



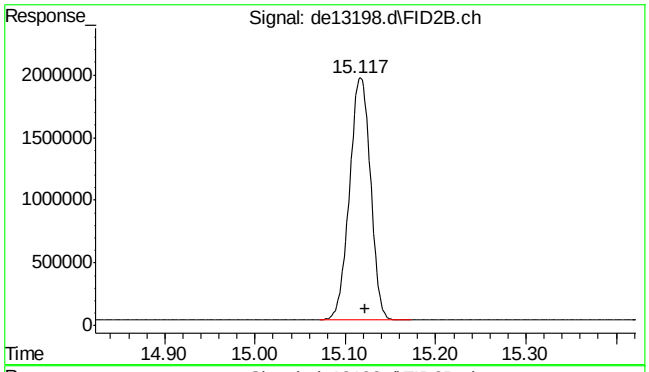
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



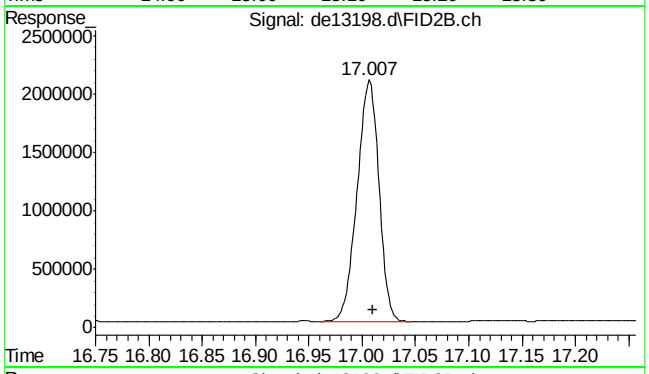
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml



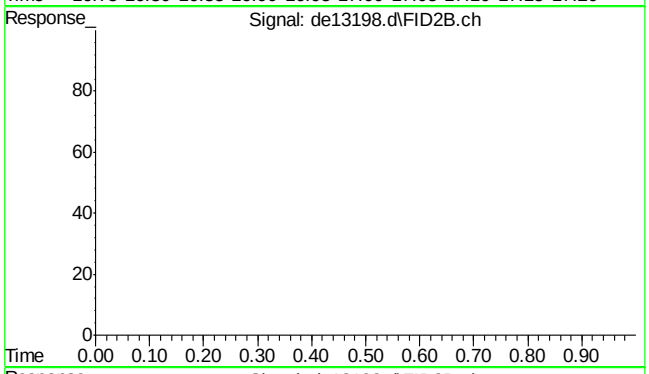
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



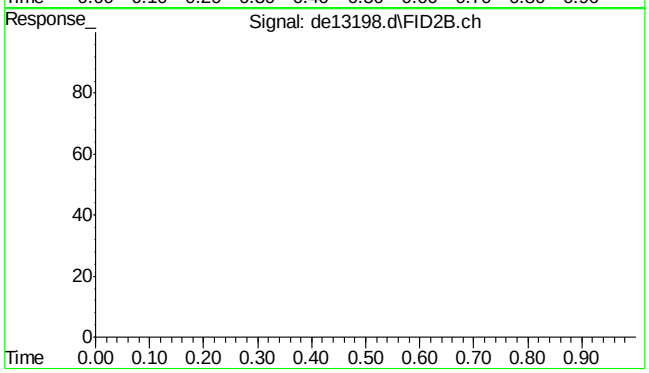
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2933493
Conc: 43.91 µg/ml m



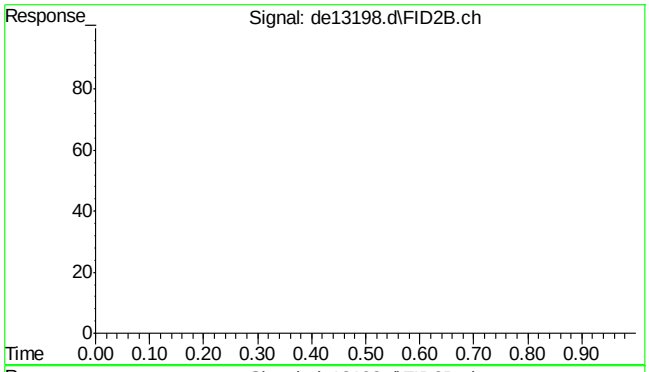
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



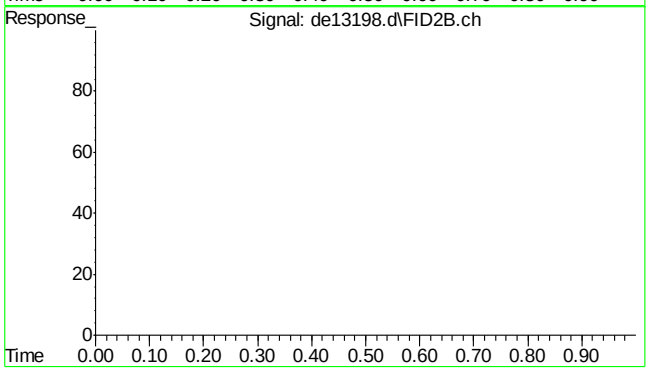
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.5.8

9

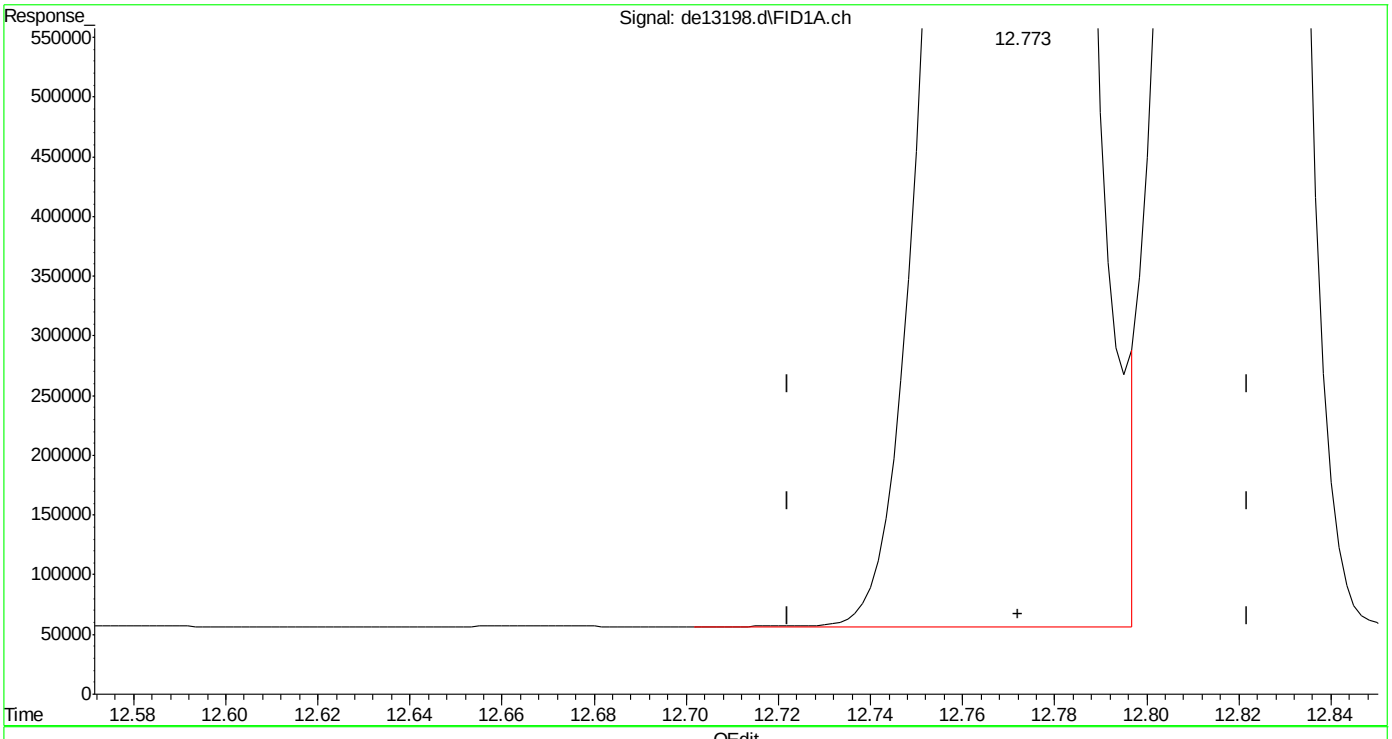
SGS ACCUTEST MC45611

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

EPH160204W.M Fri Feb 05 11:46:20 2016 Page: 1

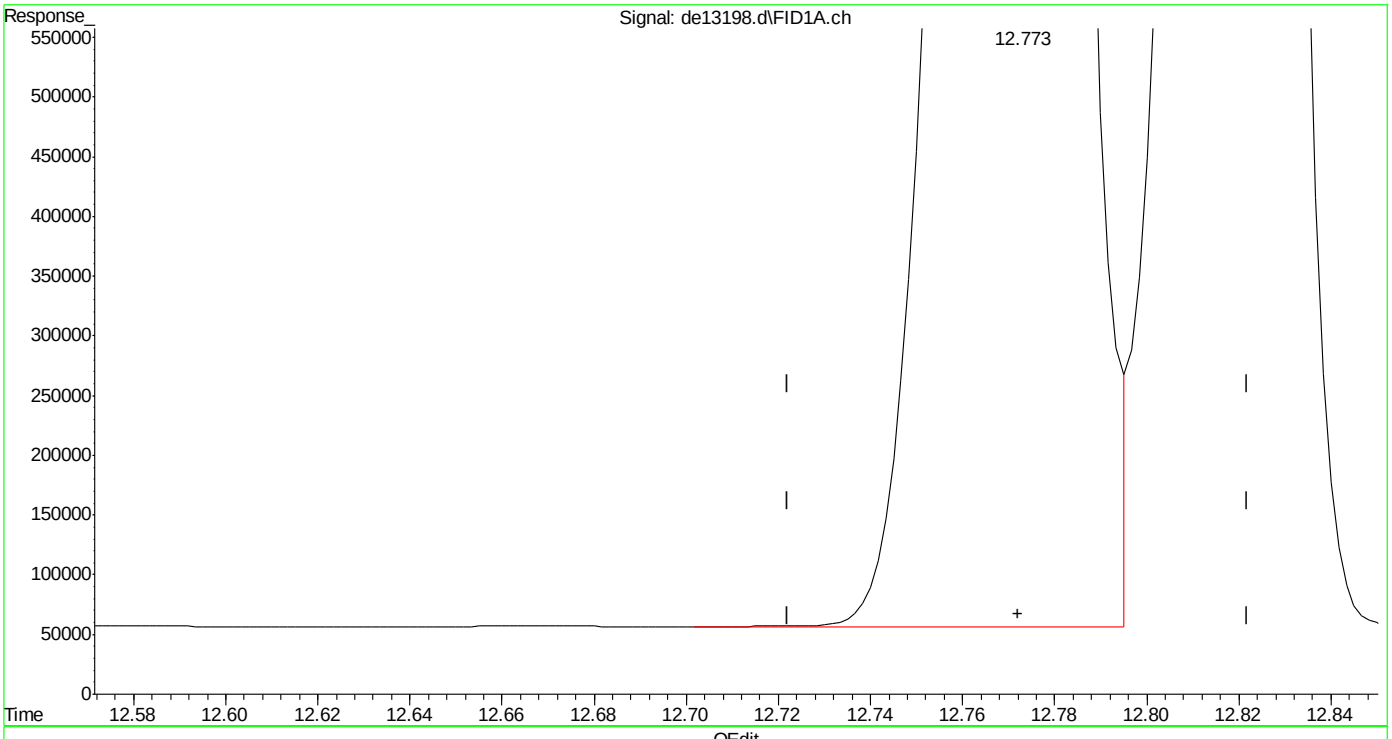
SGS ACCUTEST MC45611

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

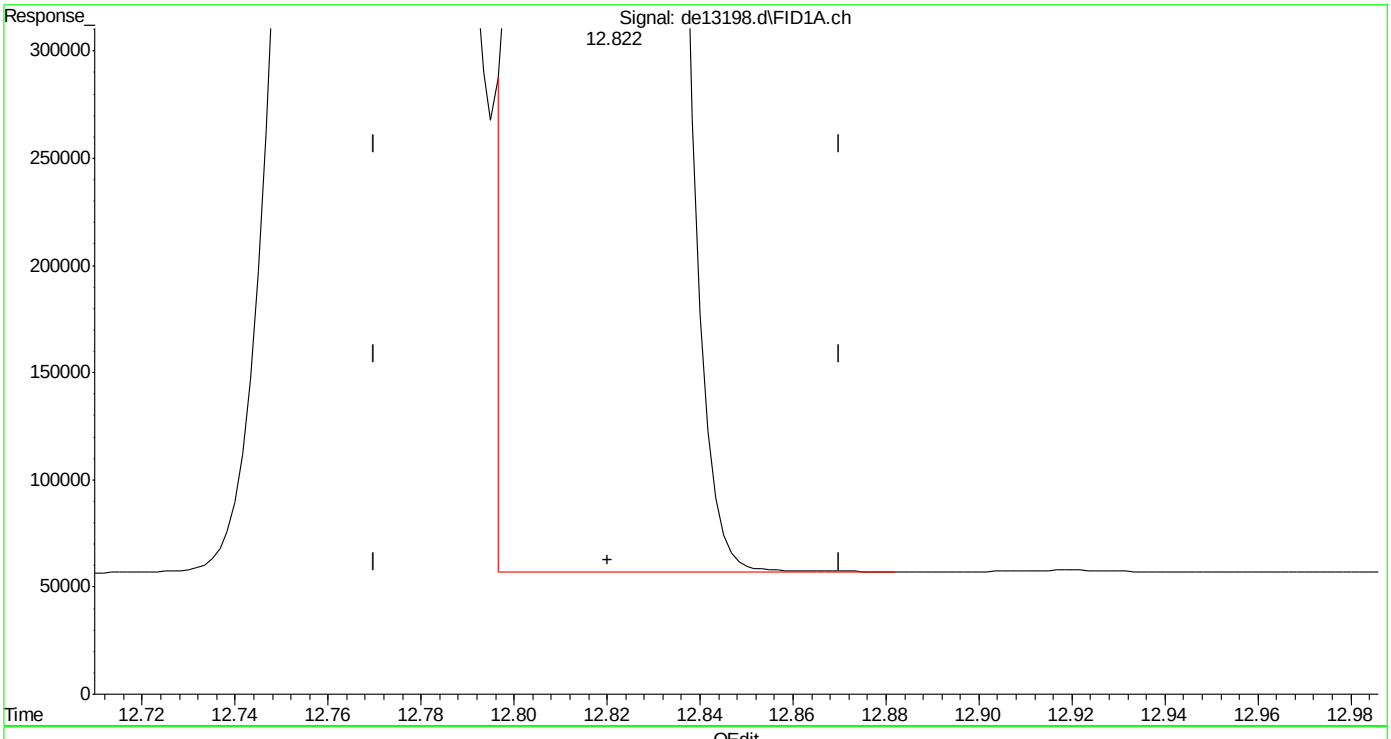
(+) = Expected Retention Time

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

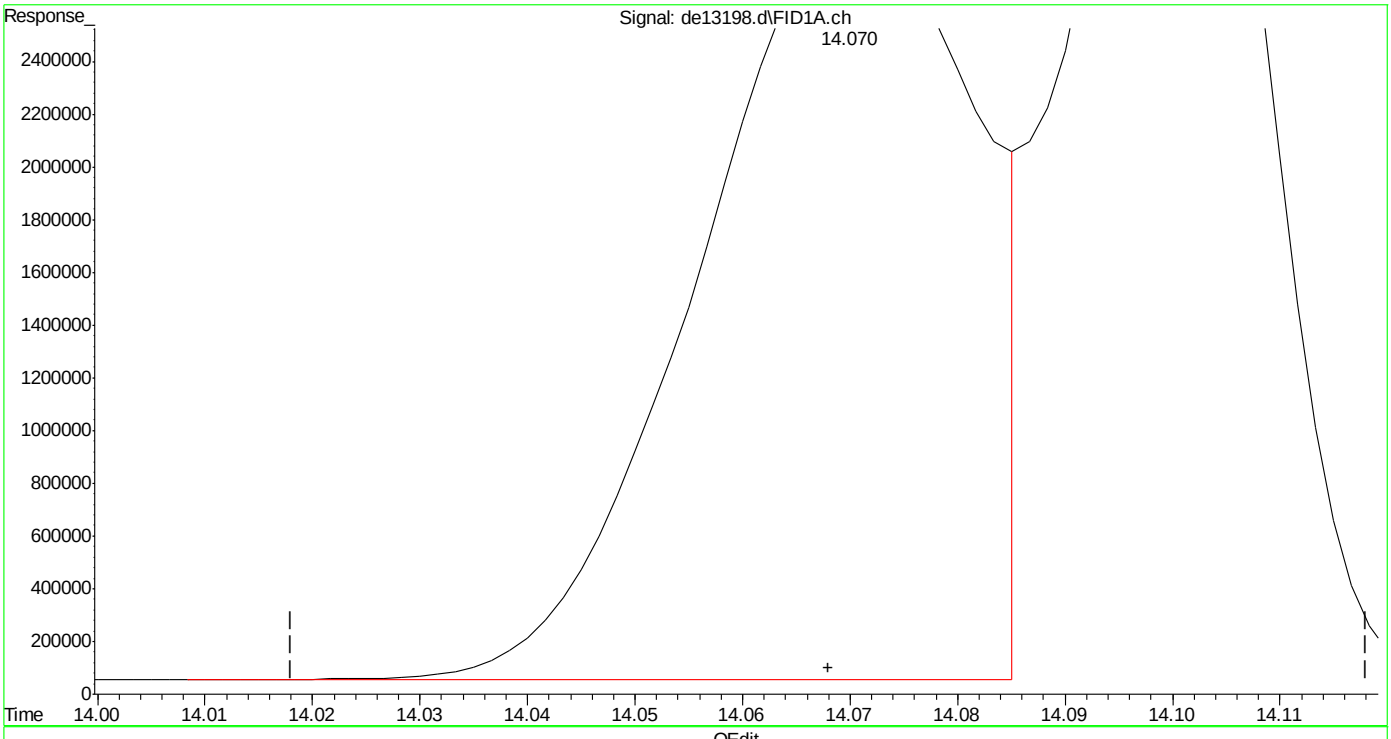
(+) = Expected Retention Time
EPH160204W.M Fri Feb 05 11:46:32 2016 Page: 1

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

EPH160204W.M Fri Feb 05 11:46:57 2016

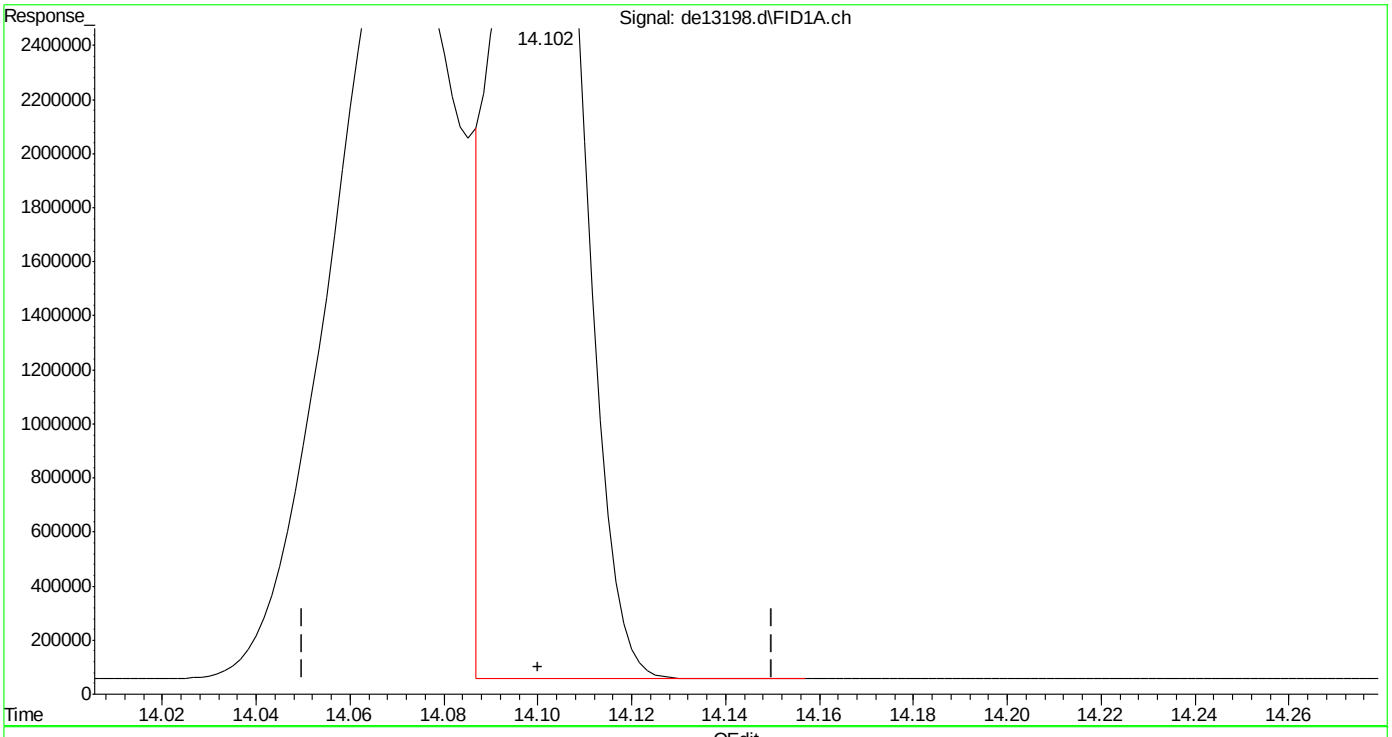
SGS ACCUTEST MC45611

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

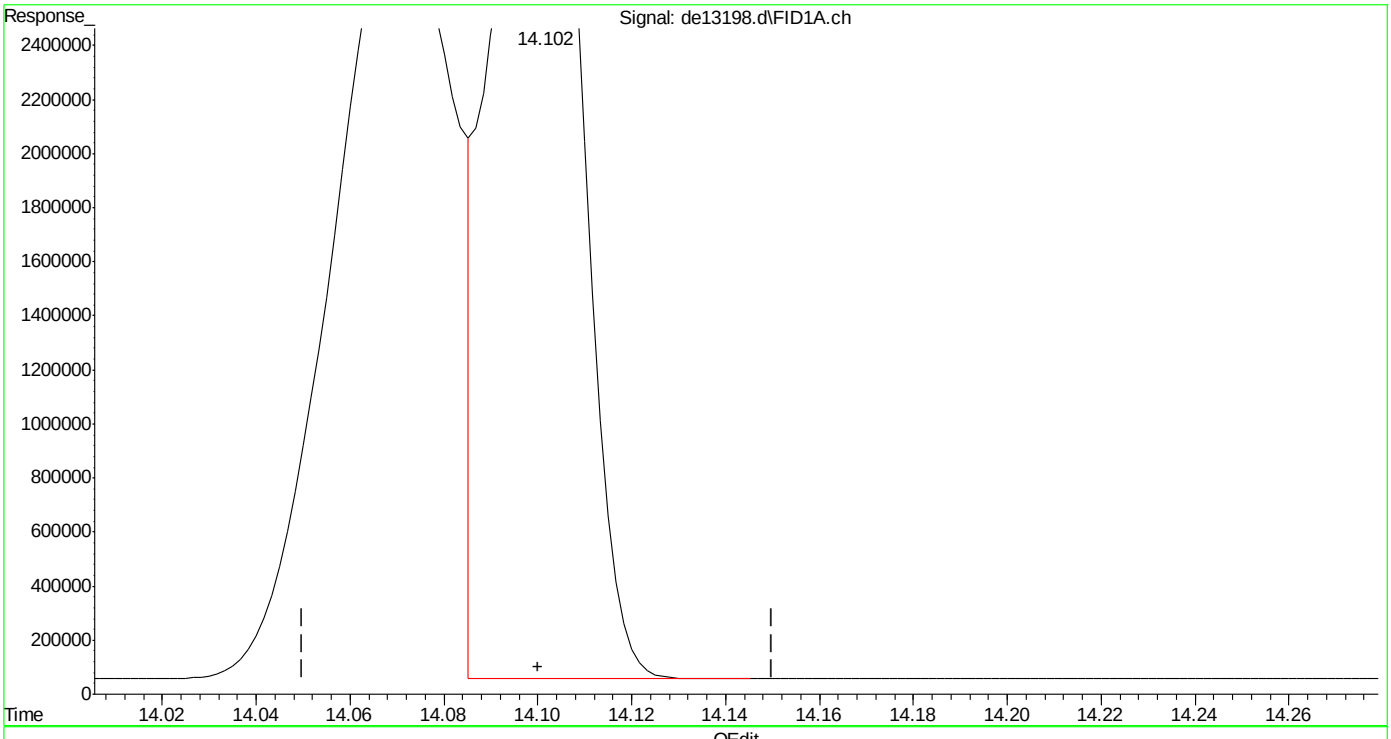
(+) = Expected Retention Time

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 11:43 am
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.682	5565862	60.348 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 301.74%#	
6) s 2-bromonaphthalene	7.415	3694719	58.875 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 294.38%#	
11) s o-terphenyl	9.958	5907757	57.678 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 288.39%#	
35) s 1-chlorooctadecane	11.228	3046717	53.853 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 269.26%#	
Target Compounds			
2) naphthalene	5.230	6307975	61.159 µg/ml
3) 2-methylnaphthalene	6.132	6157374	60.082 µg/ml
5) acenaphthylene	7.248	5992766	59.569 µg/ml
7) acenaphthene	7.490	6171873	59.703 µg/ml
8) fluorene	8.137	5998230	59.057 µg/ml
9) phenanthrene	9.322	5883155	57.812 µg/ml
10) anthracene	9.380	5641252	58.152 µg/ml
12) fluoranthene	10.830	5680905	56.843 µg/ml
13) pyrene	11.090	5824056	57.401 µg/ml
14) benzo(a)anthracene	12.657	5425828	56.124 µg/ml
15) chrysene	12.705	5493596	56.437 µg/ml
16) benzo(B)fluoranthene	13.962	5404089	54.585 µg/ml
17) benzo(k)fluoranthene	13.990	5614754	59.414 µg/ml
18) benzo(a)pyrene	14.297	5267736	56.988 µg/ml
19) indeno(1,2,3-cd)pyrene	15.443	5583300	58.984 µg/ml
20) dibenzo(ah)anthracene	15.482	5037996	55.121 µg/ml
21) benzo(ghi)perylene	15.668	5250455	56.994 µg/ml
25) h c-9	2.648	3875901	52.468 µg/mlm
26) h c-10	3.815	3933101	53.242 µg/ml
27) naphthalene #2	5.492	4196627	52.542 µg/ml
28) c-12	5.668	3908589	52.910 µg/ml
29) 2-methylnaphthalene #2	6.385	4193018	52.044 µg/ml
30) c-14	7.185	3885134	52.593 µg/ml
31) c-16	8.515	3852336	52.149 µg/ml
32) c-18	9.708	3851067	52.132 µg/ml
33) c-19	10.263	3829277	57.319 µg/ml
34) c-20	10.793	3761422	56.303 µg/ml
36) c-22	11.790	3745507	56.065 µg/ml
37) c-24	12.707	3509682	52.535 µg/ml
38) c-26	13.558	3734303	55.897 µg/ml

SGS ACCUTEST MC45611

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 11:43 am
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
39)	c-28	14.350	3608439	54.013 µg/ml
40) h	c-30	15.098	3606146	53.979 µg/ml
41) h	c-36	17.008	3005570	44.989 µg/mlm

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

9.5.9

9

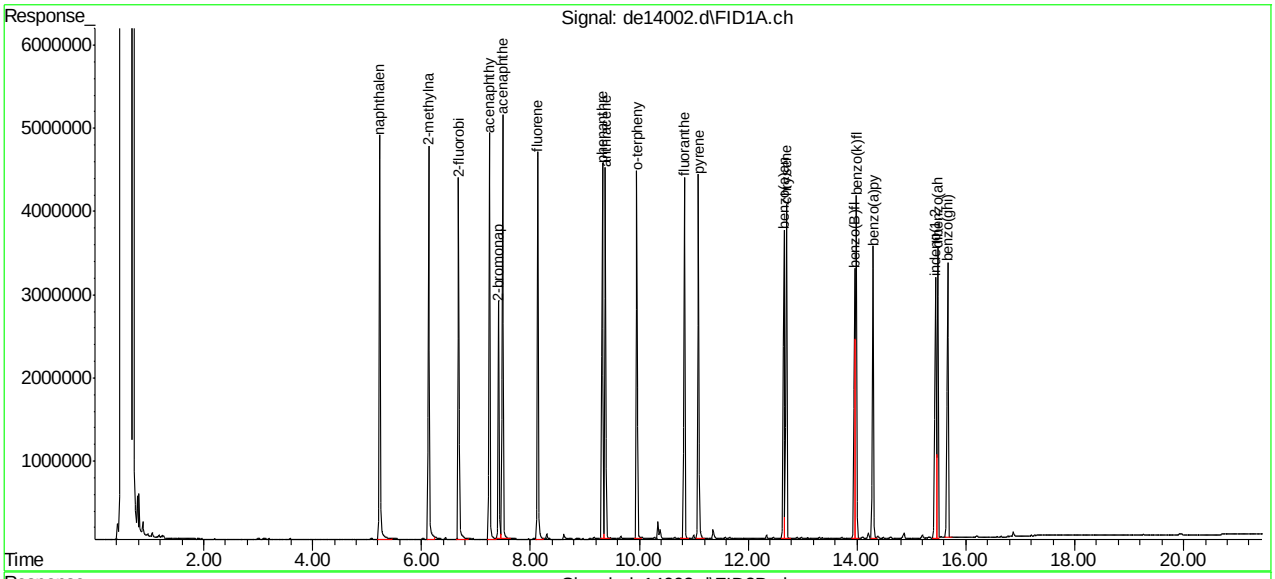
SGS ACCUTEST MC45611

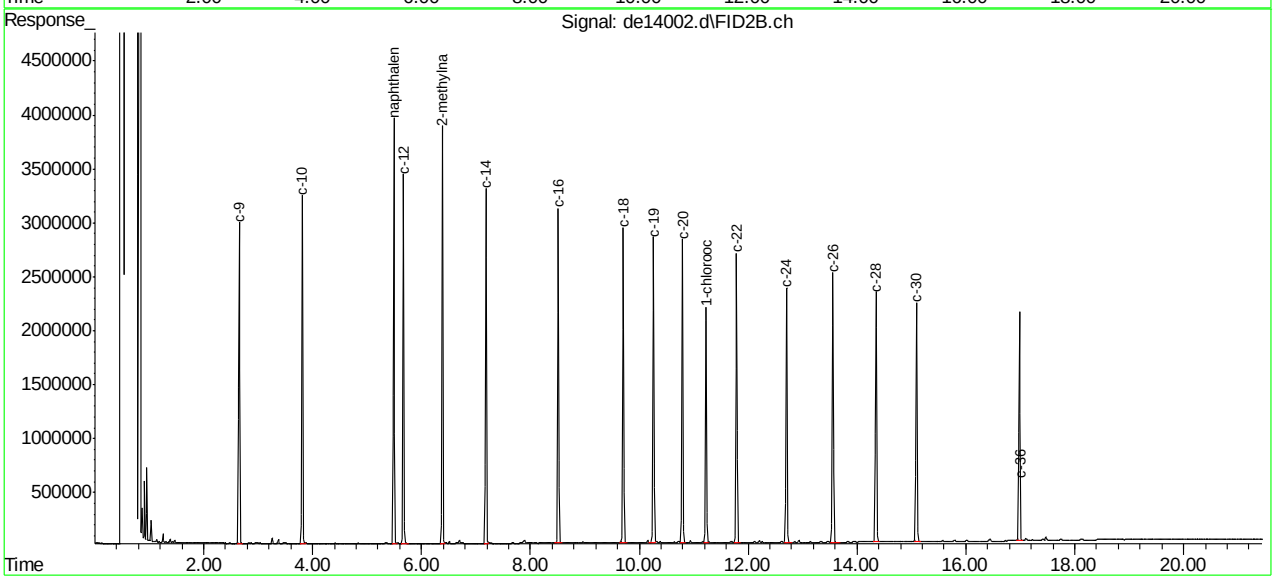
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 11:43 am
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

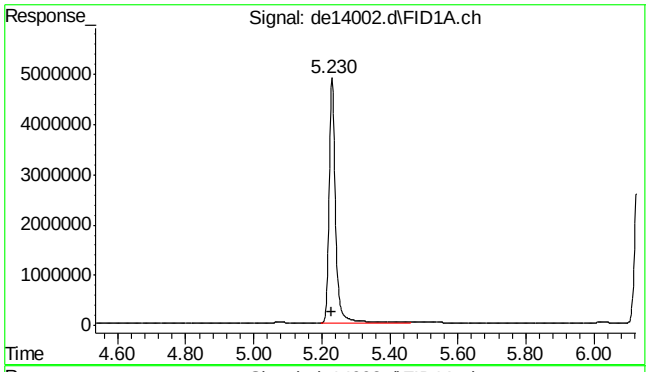
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



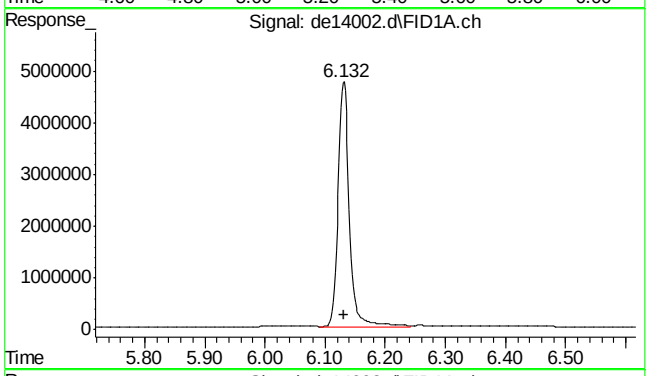


SGS ACCUTEST MC45611



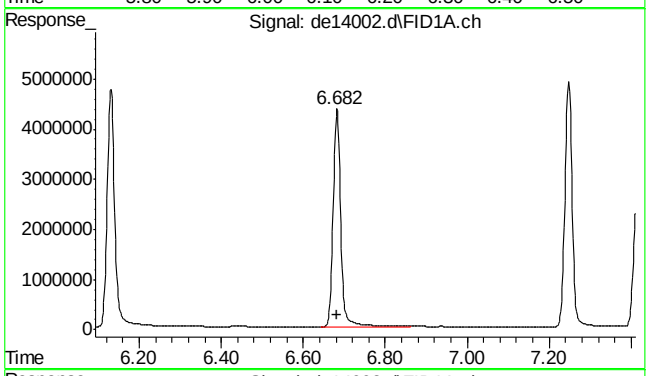
#2 naphthalene

R.T.: 5.230 min
Delta R.T.: 0.000 min
Response: 6307975
Conc: 61.16 µg/ml



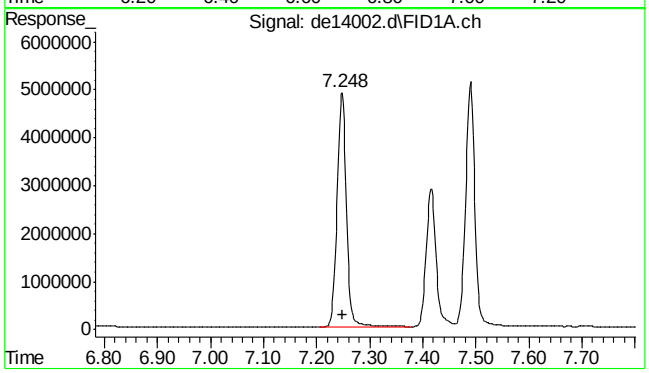
#3 2-methylnaphthalene

R.T.: 6.132 min
Delta R.T.: 0.000 min
Response: 6157374
Conc: 60.08 µg/ml



#4 2-fluorobiphenyl

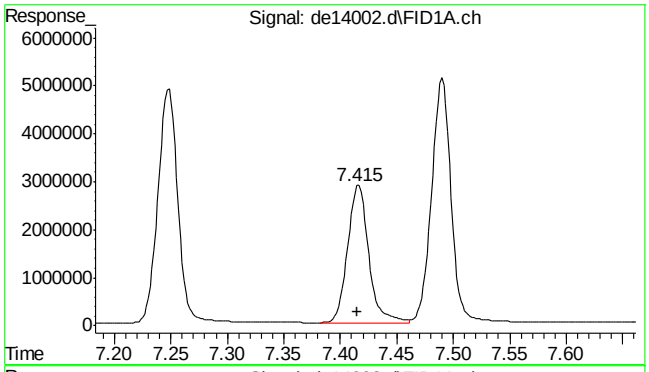
R.T.: 6.682 min
Delta R.T.: 0.000 min
Response: 5565862
Conc: 60.35 µg/ml



#5 acenaphthylene

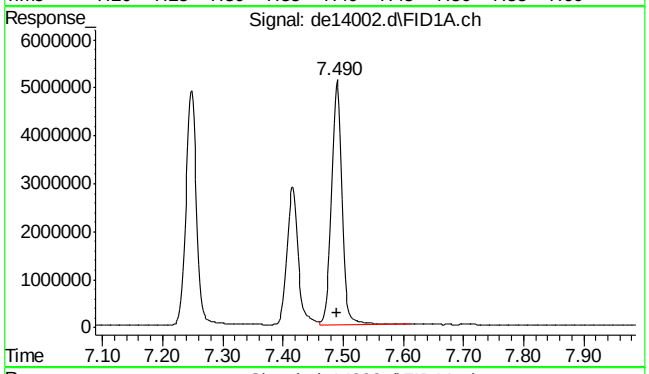
R.T.: 7.248 min
Delta R.T.: 0.000 min
Response: 5992766
Conc: 59.57 µg/ml

SGS ACCUTEST MC45611



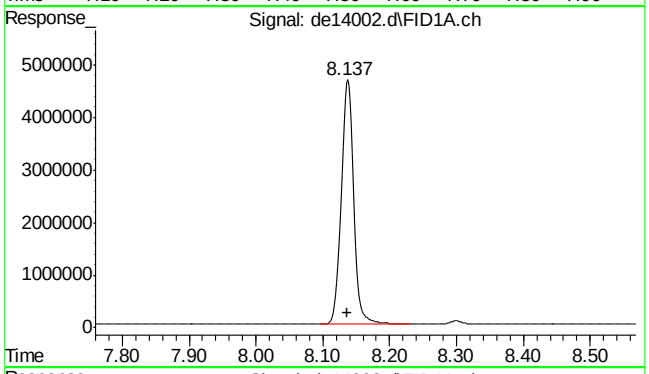
#6 2-bromonaphthalene

R.T.: 7.415 min
Delta R.T.: 0.000 min
Response: 3694719
Conc: 58.88 µg/ml



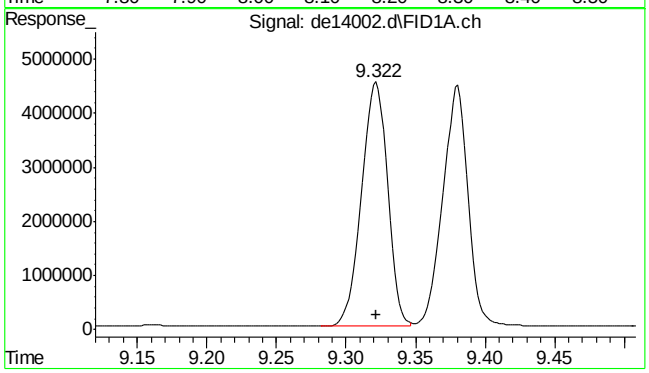
#7 acenaphthene

R.T.: 7.490 min
Delta R.T.: 0.000 min
Response: 6171873
Conc: 59.70 µg/ml



#8 fluorene

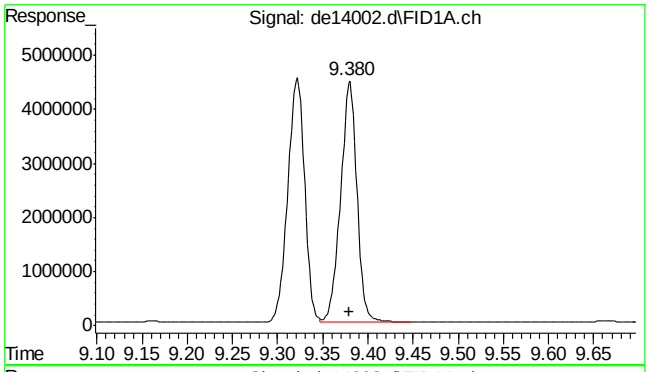
R.T.: 8.137 min
Delta R.T.: 0.000 min
Response: 5998230
Conc: 59.06 µg/ml



#9 phenanthrene

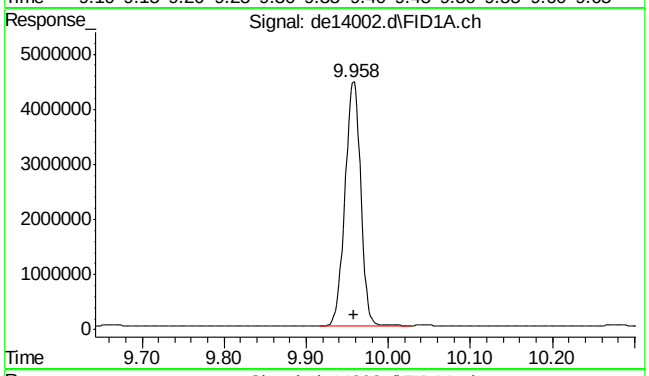
R.T.: 9.322 min
Delta R.T.: 0.000 min
Response: 5883155
Conc: 57.81 µg/ml

SGS ACCUTEST MC45611



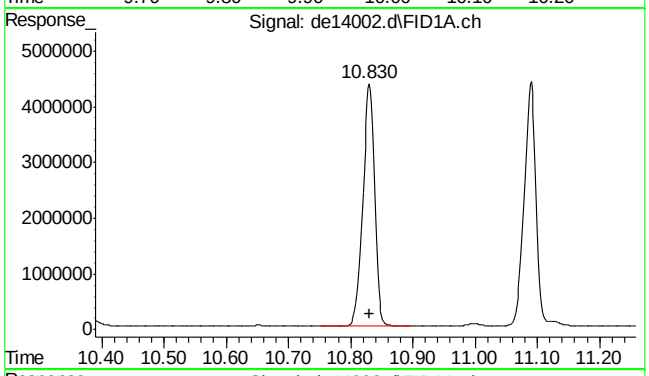
#10 anthracene

R.T.: 9.380 min
Delta R.T.: 0.000 min
Response: 5641252
Conc: 58.15 µg/ml



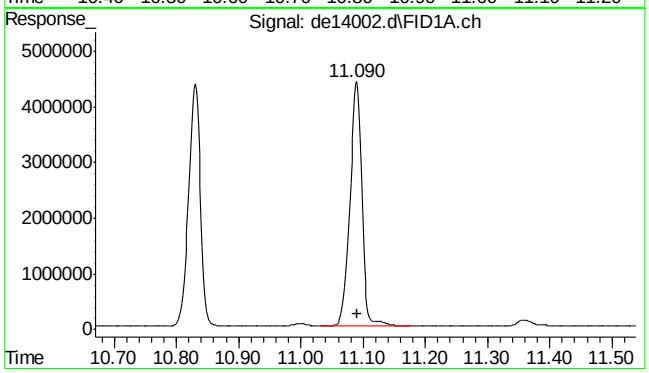
#11 o-terphenyl

R.T.: 9.958 min
Delta R.T.: 0.000 min
Response: 5907757
Conc: 57.68 µg/ml



#12 fluoranthene

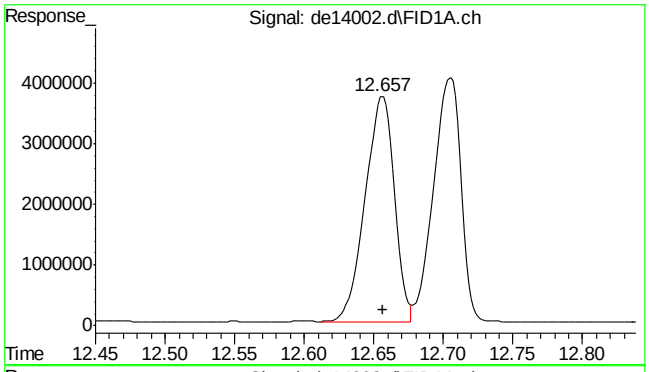
R.T.: 10.830 min
Delta R.T.: 0.000 min
Response: 5680905
Conc: 56.84 µg/ml



#13 pyrene

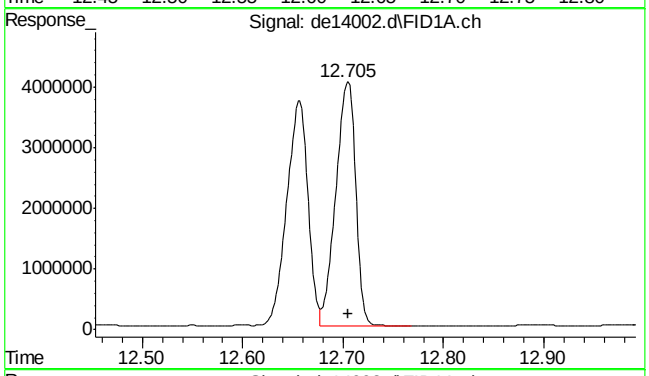
R.T.: 11.090 min
Delta R.T.: 0.000 min
Response: 5824056
Conc: 57.40 µg/ml

SGS ACCUTEST MC45611



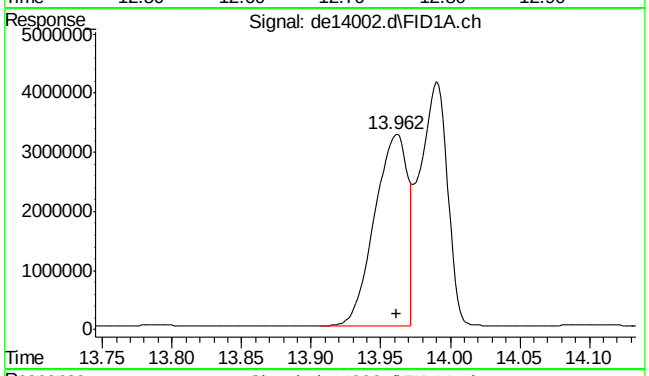
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 5425828
Conc: 56.12 µg/ml



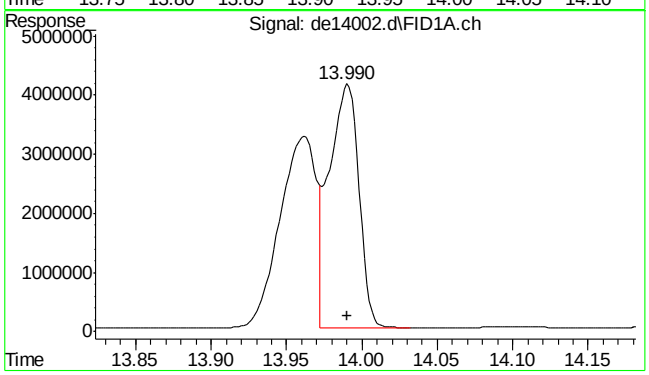
#15 chrysene

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 5493596
Conc: 56.44 µg/ml



#16 benzo(B)fluoranthene

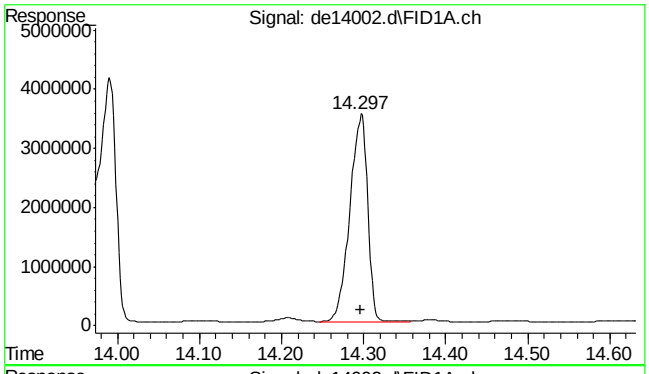
R.T.: 13.962 min
Delta R.T.: 0.000 min
Response: 5404089
Conc: 54.59 µg/ml



#17 benzo(k)fluoranthene

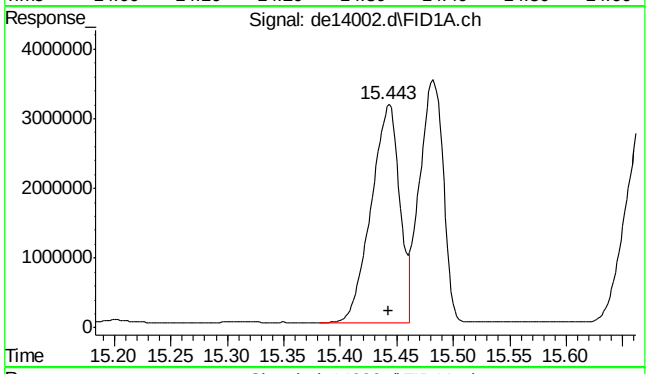
R.T.: 13.990 min
Delta R.T.: 0.000 min
Response: 5614754
Conc: 59.41 µg/ml

SGS ACCUTEST MC45611



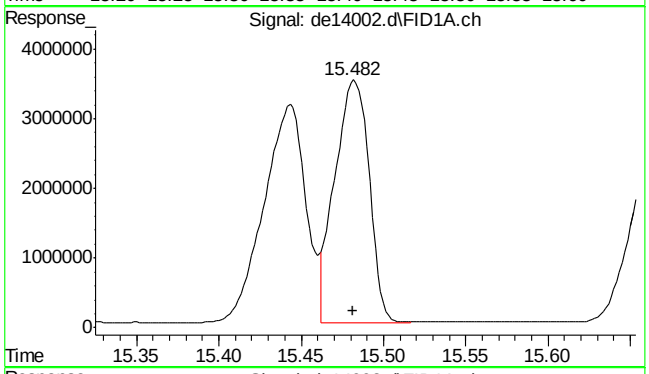
#18 benzo(a)pyrene

R.T.: 14.297 min
Delta R.T.: 0.000 min
Response: 5267736
Conc: 56.99 µg/ml



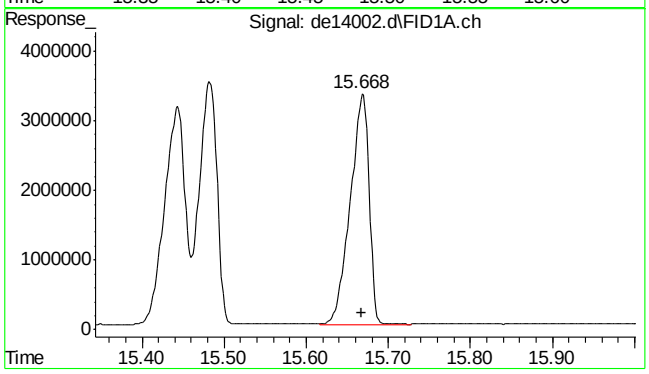
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.443 min
Delta R.T.: 0.000 min
Response: 5583300
Conc: 58.98 µg/ml



#20 dibenzo(ah)anthracene

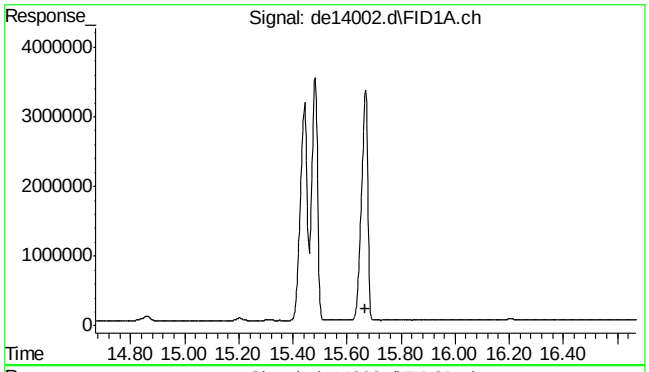
R.T.: 15.482 min
Delta R.T.: 0.000 min
Response: 5037996
Conc: 55.12 µg/ml



#21 benzo(ghi)perylene

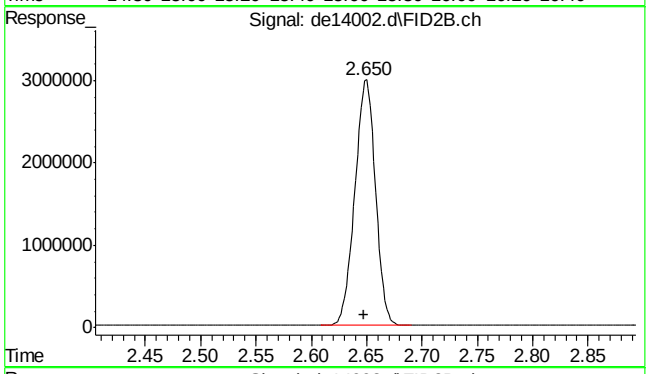
R.T.: 15.668 min
Delta R.T.: 0.000 min
Response: 5250455
Conc: 56.99 µg/ml

SGS ACCUTEST MC45611



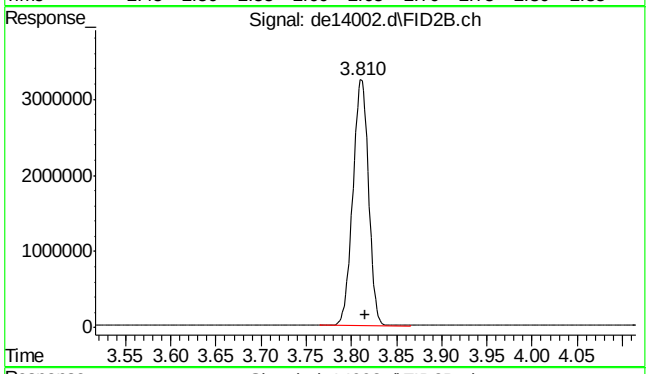
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



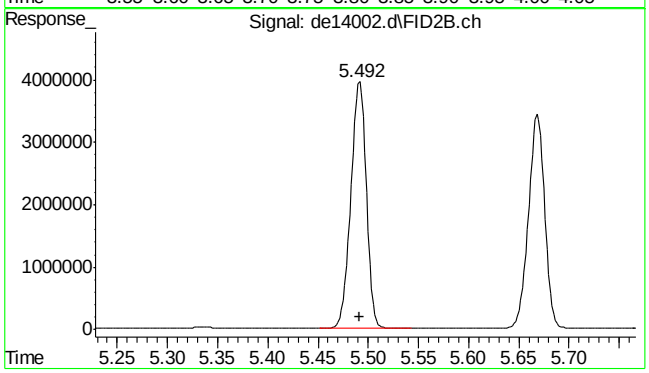
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3875901
Conc: 52.47 µg/ml m



#26 c-10

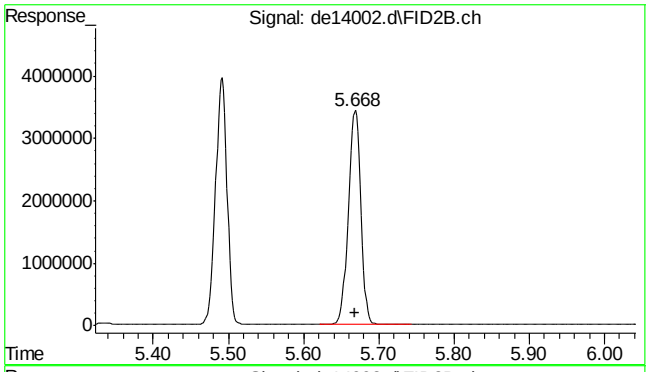
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3933101
Conc: 53.24 µg/ml



#27 naphthalene #2

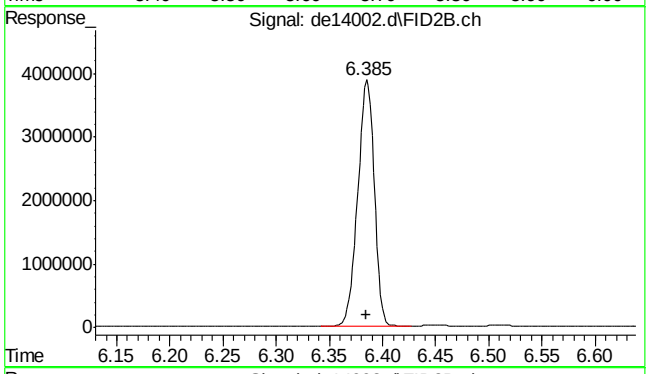
R.T.: 5.492 min
Delta R.T.: 0.000 min
Response: 4196627
Conc: 52.54 µg/ml

SGS ACCUTEST MC45611



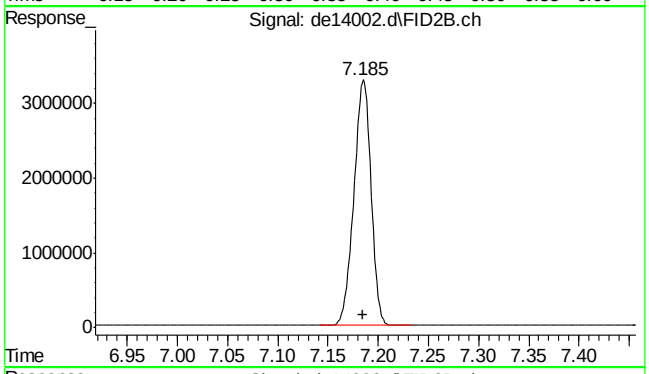
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 3908589
Conc: 52.91 µg/ml



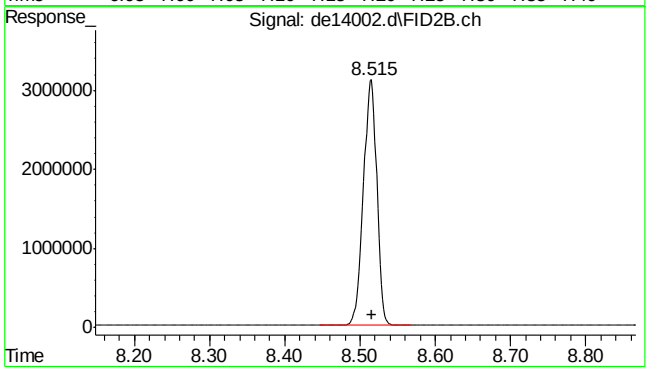
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4193018
Conc: 52.04 µg/ml



#30 c-14

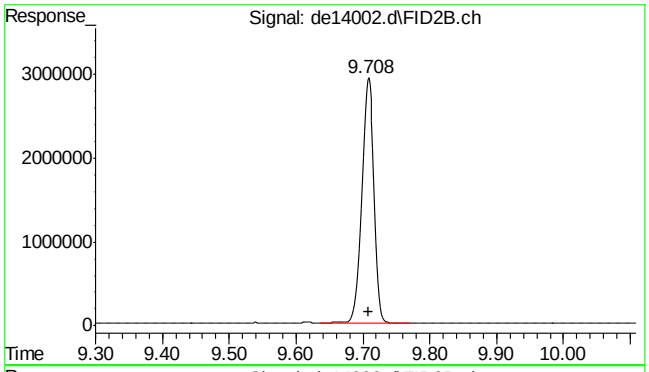
R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 3885134
Conc: 52.59 µg/ml



#31 c-16

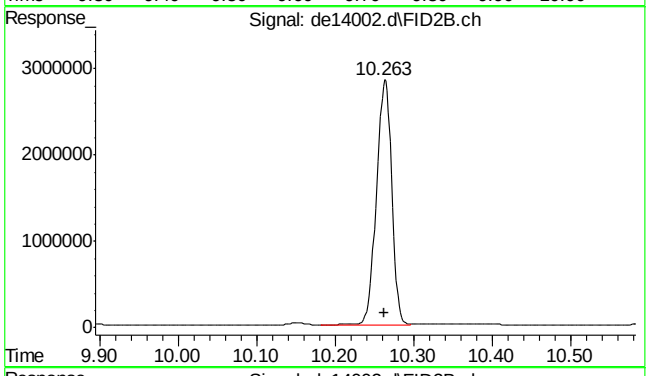
R.T.: 8.515 min
Delta R.T.: 0.000 min
Response: 3852336
Conc: 52.15 µg/ml

SGS ACCUTEST MC45611



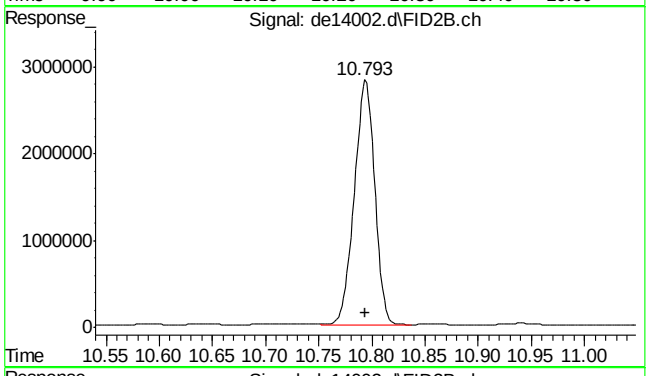
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3851067
Conc: 52.13 µg/ml



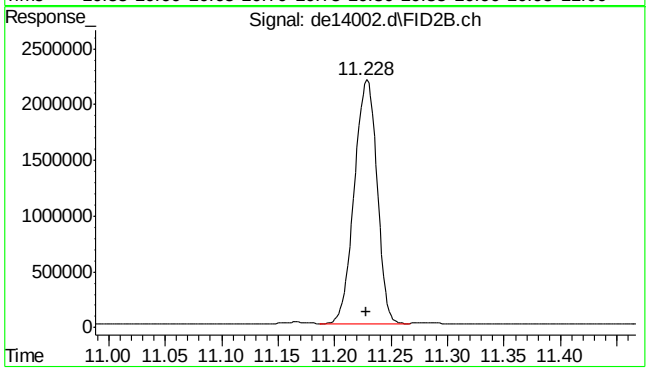
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3829277
Conc: 57.32 µg/ml



#34 c-20

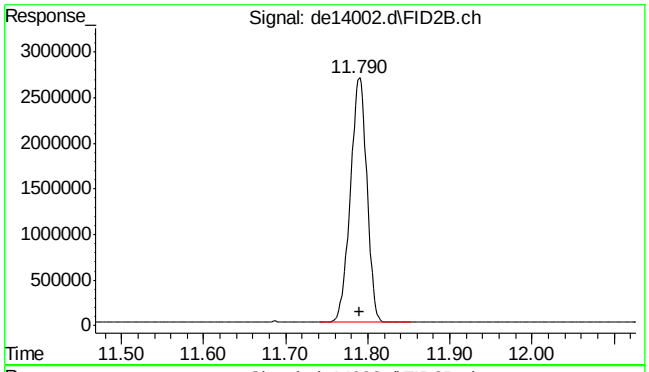
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3761422
Conc: 56.30 µg/ml



#35 1-chlorooctadecane

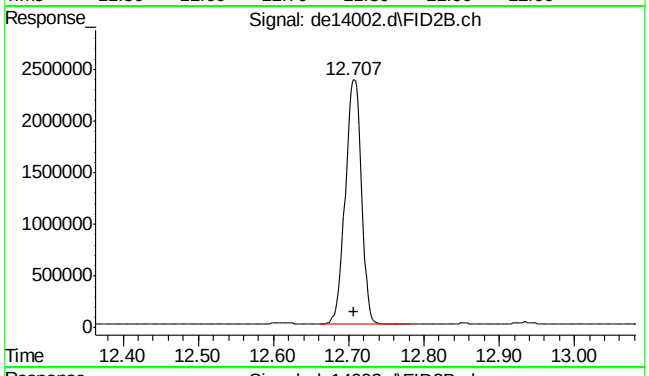
R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3046717
Conc: 53.85 µg/ml

SGS ACCUTEST MC45611



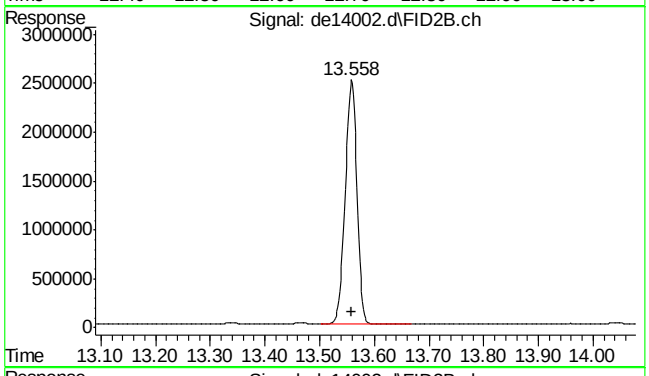
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3745507
Conc: 56.07 µg/ml



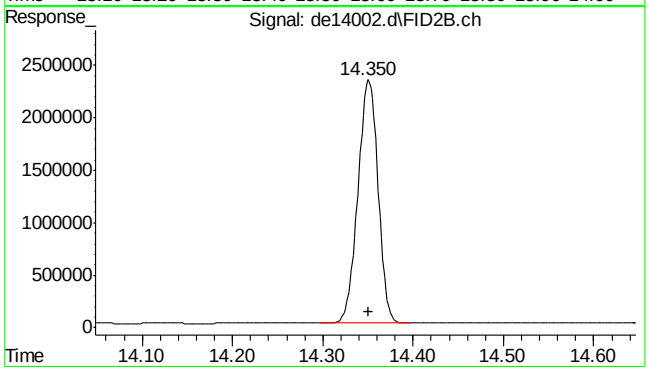
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3509682
Conc: 52.54 µg/ml



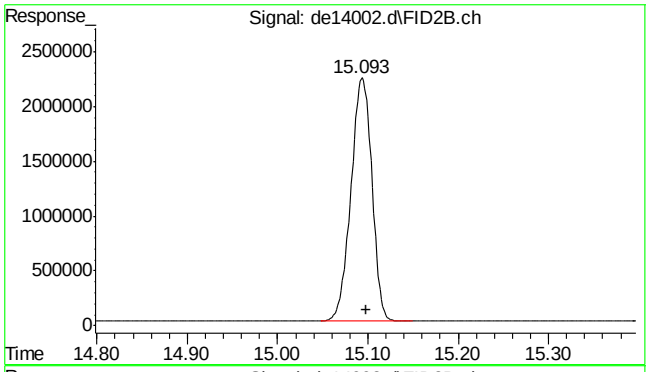
#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3734303
Conc: 55.90 µg/ml



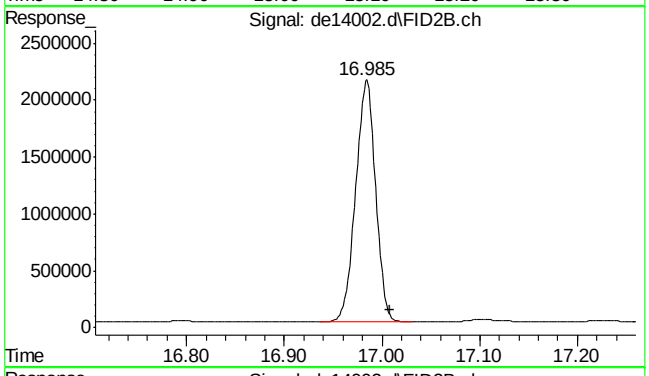
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3608439
Conc: 54.01 µg/ml



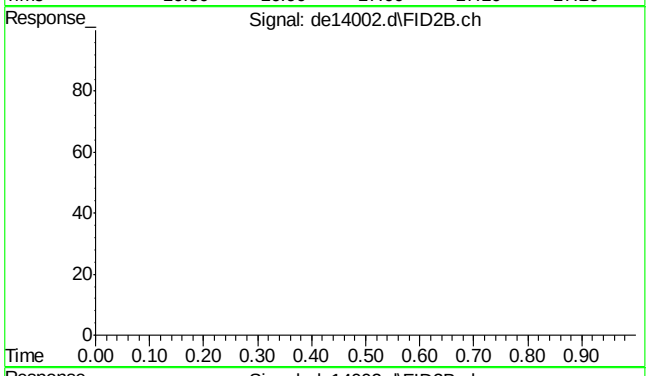
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3606146
Conc: 53.98 µg/ml



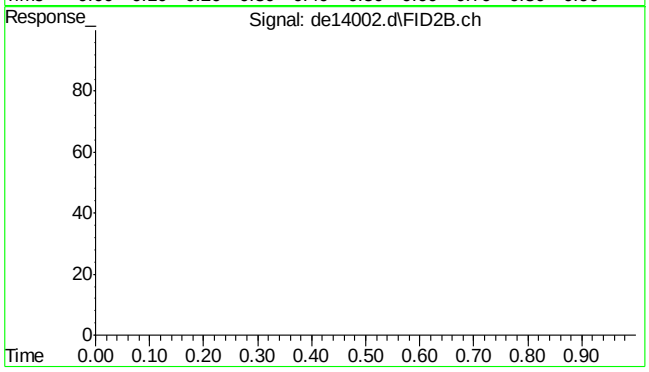
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3005570
Conc: 44.99 µg/ml m



#42 bht

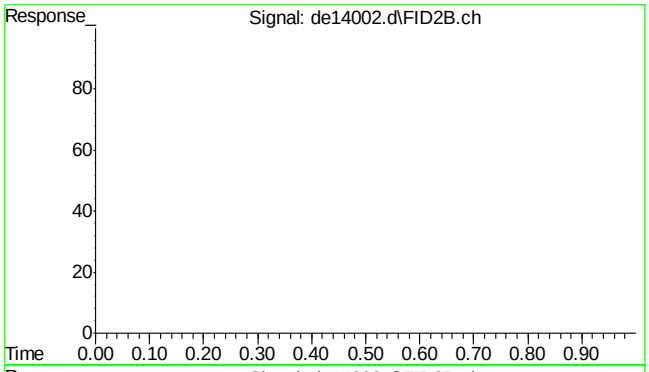
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

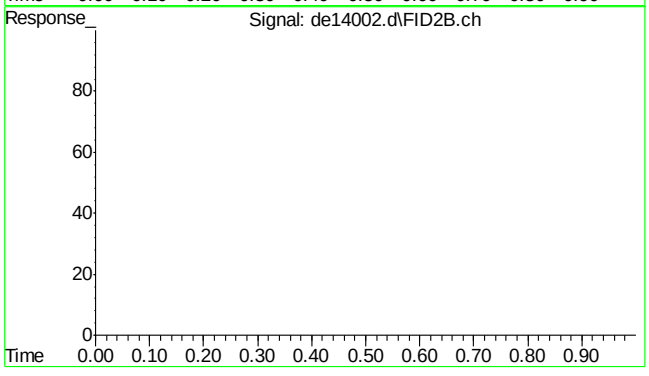
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45611



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.5.9

9

SGS ACCUTEST MC45611

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 4:00 pm
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	5668045	61.456 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 307.28%#
6) s	2-bromonaphthalene	7.423	3776060	60.172 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 300.86%#
11) s	o-terphenyl	9.965	6023413	58.807 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 294.04%#
35) s	1-chlorooctadecane	11.228	3087949	54.582 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 272.91%#
	Target Compounds			
2)	naphthalene	5.240	6425983	62.303 µg/ml
3)	2-methylnaphthalene	6.140	6276069	61.241 µg/ml
5)	acenaphthylene	7.257	6109460	60.729 µg/ml
7)	acenaphthene	7.498	6352754	61.453 µg/ml
8)	fluorene	8.145	6126361	60.318 µg/ml
9)	phenanthrene	9.330	5992105	58.883 µg/ml
10)	anthracene	9.387	5756284	59.338 µg/ml
12)	fluoranthene	10.838	5788458	57.919 µg/ml
13)	pyrene	11.097	5919466	58.341 µg/ml
14)	benzo(a)anthracene	12.665	5528437	57.186 µg/ml
15)	chrysene	12.712	5567168	57.192 µg/ml
16)	benzo(B)fluoranthene	13.968	5636740	56.935 µg/ml
17)	benzo(k)fluoranthene	13.997	5513092	58.338 µg/ml
18)	benzo(a)pyrene	14.302	5319401	57.547 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.448	5380292	56.839 µg/ml
20)	dibenzo(ah)anthracene	15.490	5290442	57.883 µg/ml
21)	benzo(ghi)perylene	15.677	5260418	57.102 µg/ml
25) h	c-9	2.648	4121294	55.790 µg/mlm
26) h	c-10	3.815	4173595	56.498 µg/ml
27)	naphthalene #2	5.492	4443695	55.635 µg/ml
28)	c-12	5.668	4130569	55.915 µg/ml
29)	2-methylnaphthalene #2	6.385	4421416	54.879 µg/ml
30)	c-14	7.185	4066629	55.050 µg/ml
31)	c-16	8.515	3983337	53.922 µg/ml
32)	c-18	9.708	3940458	53.342 µg/ml
33)	c-19	10.263	3907901	58.496 µg/ml
34)	c-20	10.795	3820880	57.193 µg/ml
36)	c-22	11.792	3784675	56.651 µg/ml
37)	c-24	12.708	3518364	52.665 µg/ml
38)	c-26	13.562	3722516	55.721 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 4:00 pm
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	14.353	3583205	53.636 µg/ml
40) h	c-30	15.098	3555929	53.227 µg/ml
41) h	c-36	17.008	2937348	43.968 µg/mlm

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

9.5.10

9

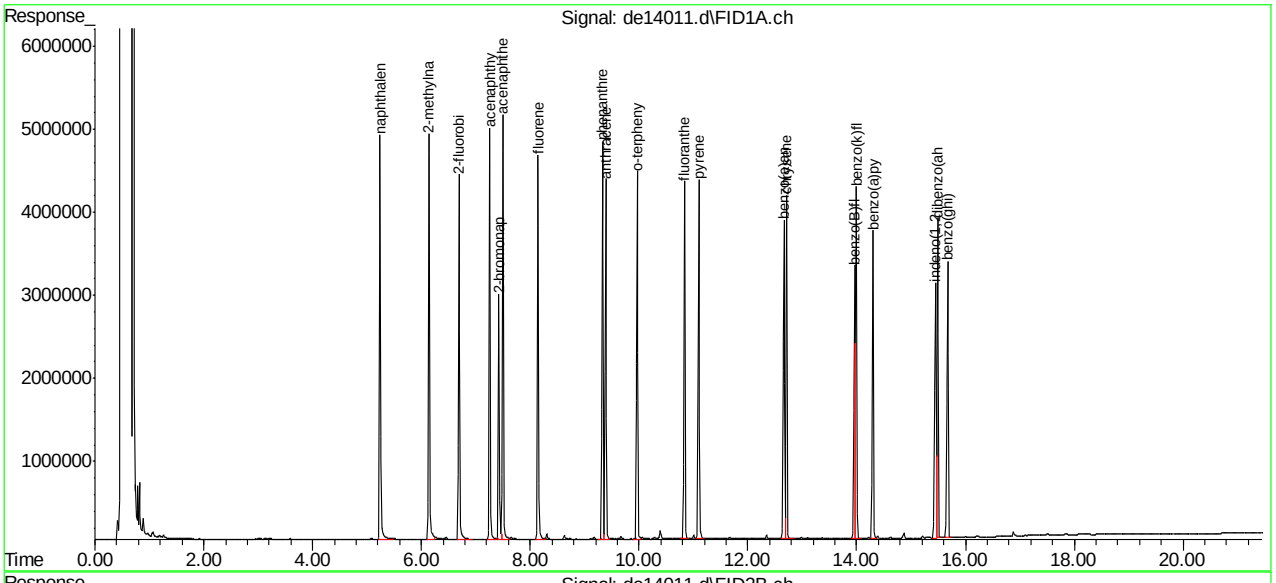
SGS ACCUTEST MC45611

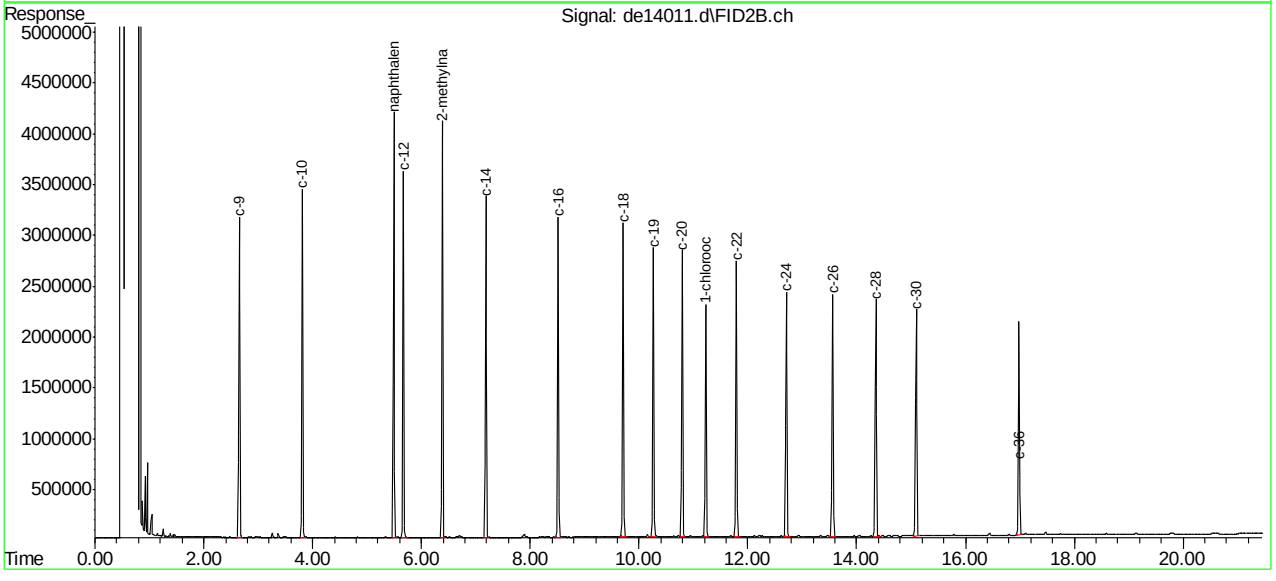
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 4:00 pm
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

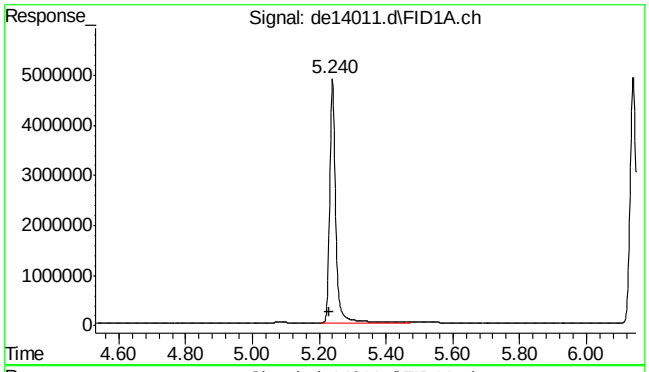
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



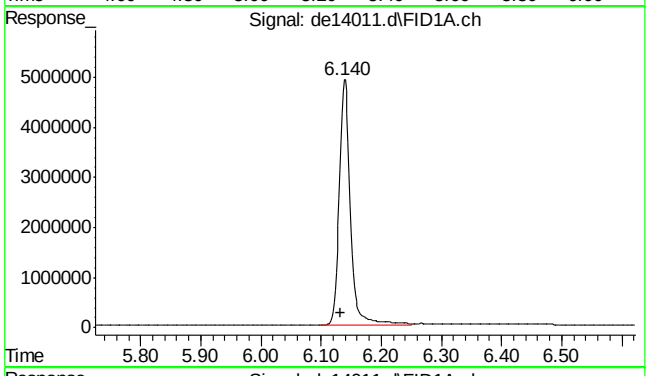


SGS ACCUTEST MC45611



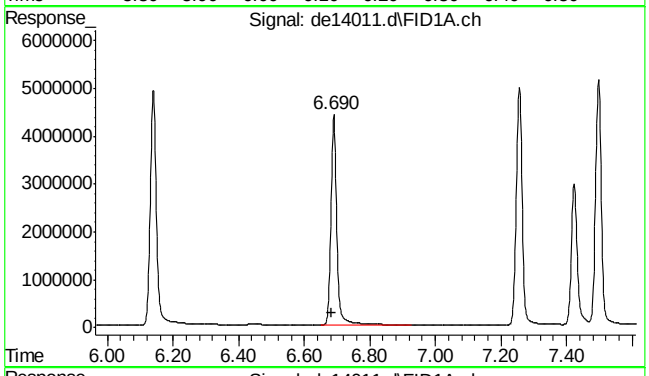
#2 naphthalene

R.T.: 5.240 min
Delta R.T.: 0.010 min
Response: 6425983
Conc: 62.30 µg/ml



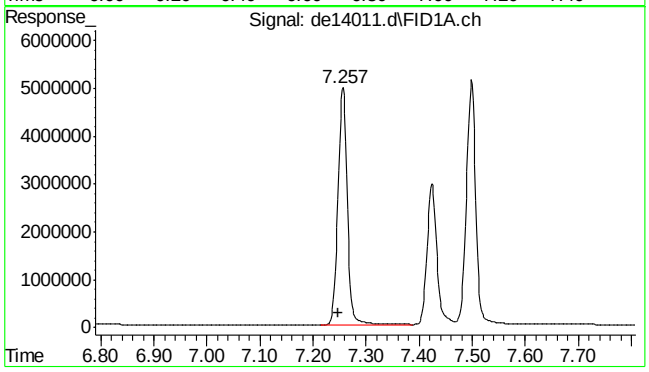
#3 2-methylnaphthalene

R.T.: 6.140 min
Delta R.T.: 0.008 min
Response: 6276069
Conc: 61.24 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.690 min
Delta R.T.: 0.008 min
Response: 5668045
Conc: 61.46 µg/ml



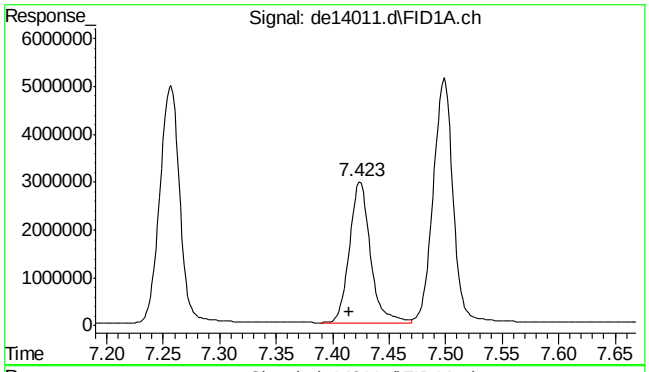
#5 acenaphthylene

R.T.: 7.257 min
Delta R.T.: 0.008 min
Response: 6109460
Conc: 60.73 µg/ml

9.5.10

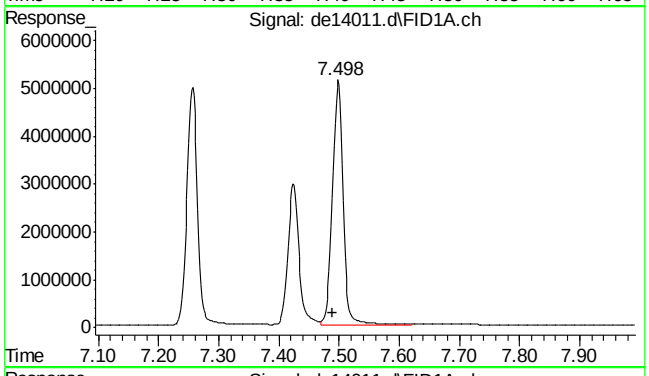
9

SGS ACCUTEST MC45611



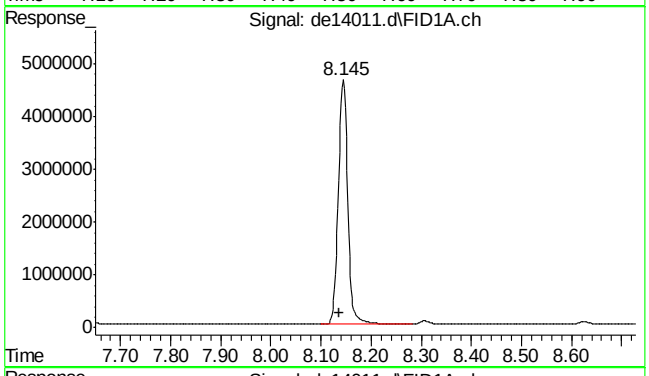
#6 2-bromonaphthalene

R.T.: 7.423 min
Delta R.T.: 0.008 min
Response: 3776060
Conc: 60.17 µg/ml



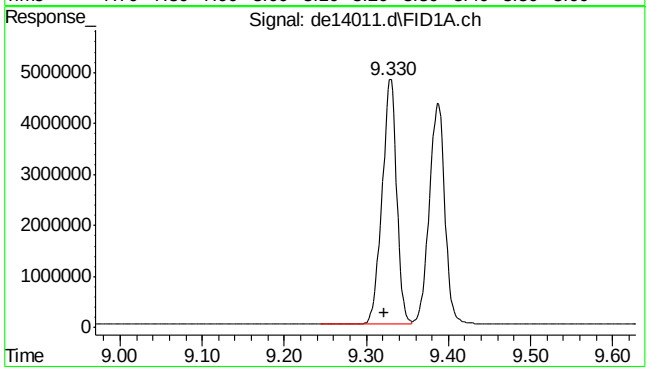
#7 acenaphthene

R.T.: 7.498 min
Delta R.T.: 0.008 min
Response: 6352754
Conc: 61.45 µg/ml



#8 fluorene

R.T.: 8.145 min
Delta R.T.: 0.008 min
Response: 6126361
Conc: 60.32 µg/ml



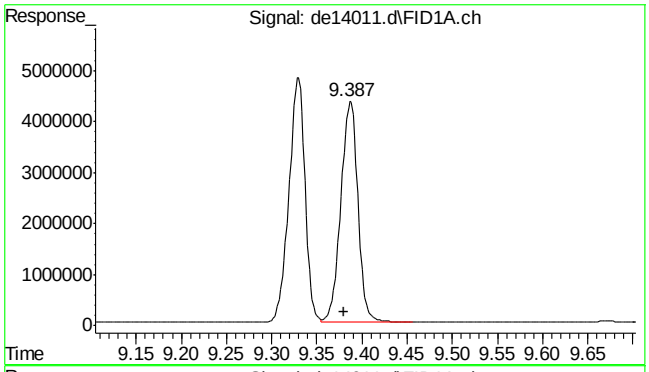
#9 phenanthrene

R.T.: 9.330 min
Delta R.T.: 0.008 min
Response: 5992105
Conc: 58.88 µg/ml

9.5.10

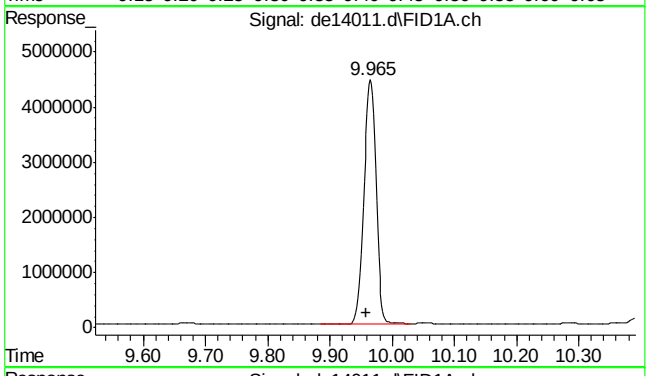
9

SGS ACCUTEST MC45611



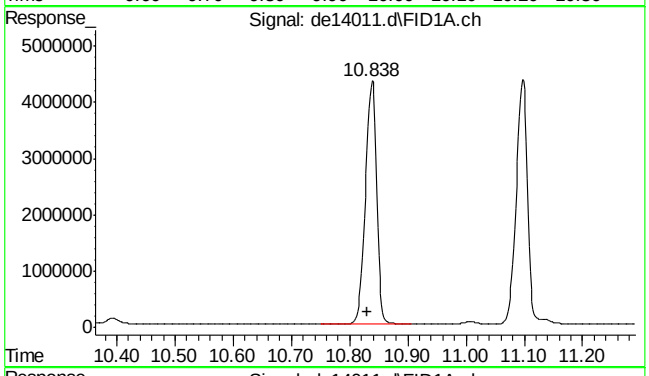
#10 anthracene

R.T.: 9.387 min
Delta R.T.: 0.007 min
Response: 5756284
Conc: 59.34 µg/ml



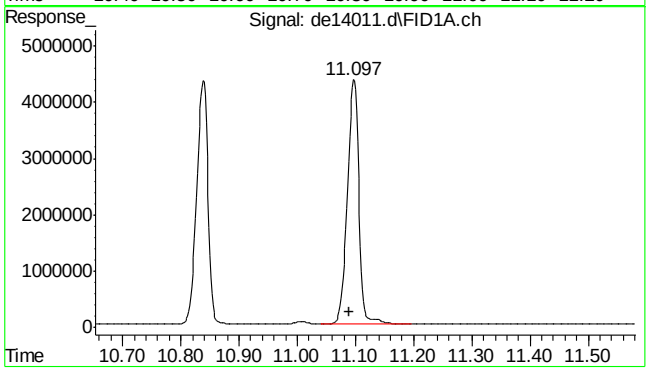
#11 o-terphenyl

R.T.: 9.965 min
Delta R.T.: 0.007 min
Response: 6023413
Conc: 58.81 µg/ml



#12 fluoranthene

R.T.: 10.838 min
Delta R.T.: 0.008 min
Response: 5788458
Conc: 57.92 µg/ml



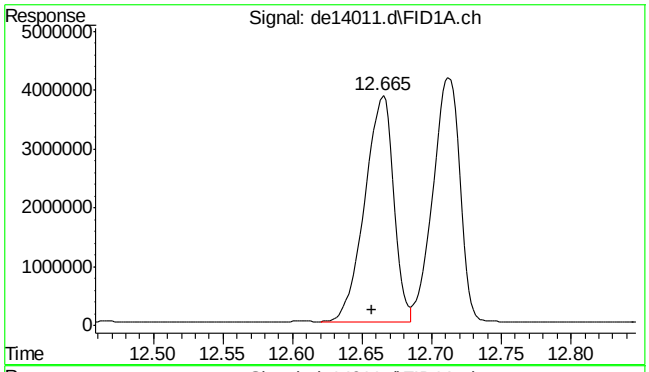
#13 pyrene

R.T.: 11.097 min
Delta R.T.: 0.007 min
Response: 5919466
Conc: 58.34 µg/ml

9.5.10

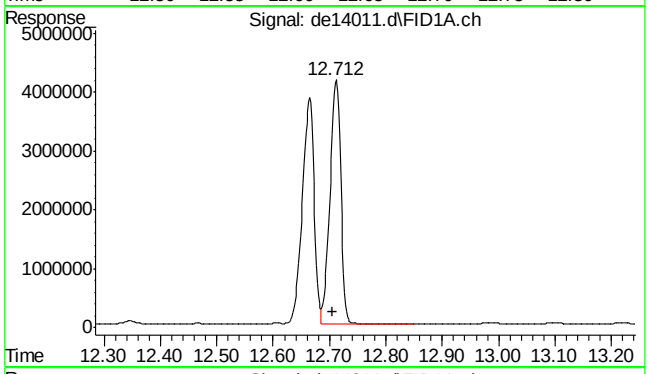
9

SGS ACCUTEST MC45611



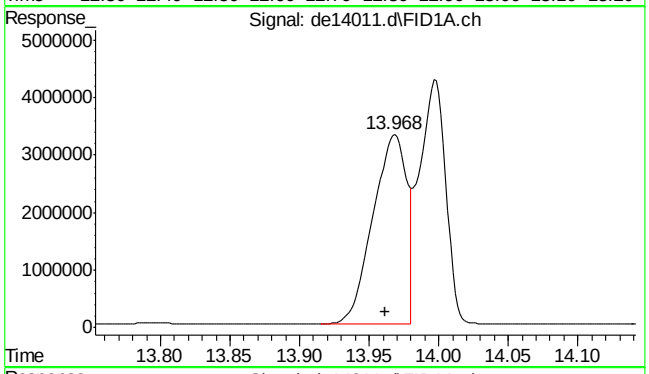
#14 benzo(a)anthracene

R.T.: 12.665 min
Delta R.T.: 0.008 min
Response: 5528437
Conc: 57.19 µg/ml



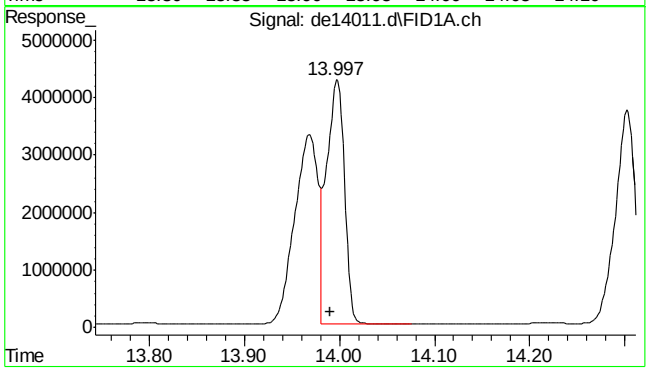
#15 chrysene

R.T.: 12.712 min
Delta R.T.: 0.007 min
Response: 5567168
Conc: 57.19 µg/ml



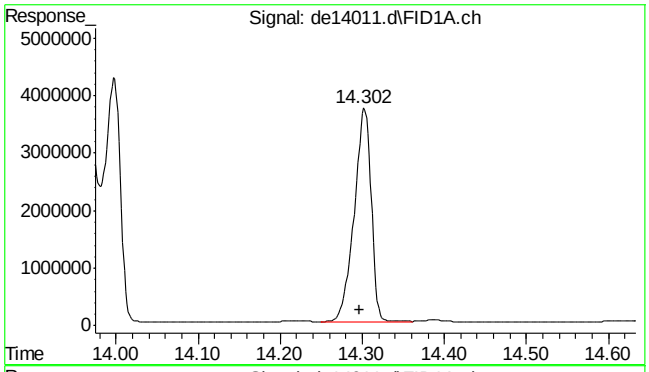
#16 benzo(B)fluoranthene

R.T.: 13.968 min
Delta R.T.: 0.007 min
Response: 5636740
Conc: 56.94 µg/ml



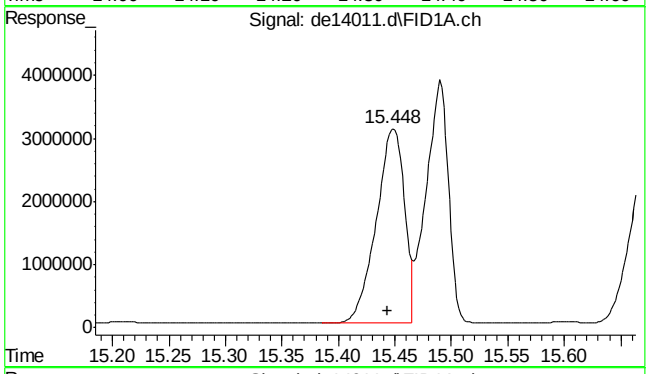
#17 benzo(k)fluoranthene

R.T.: 13.997 min
Delta R.T.: 0.007 min
Response: 5513092
Conc: 58.34 µg/ml



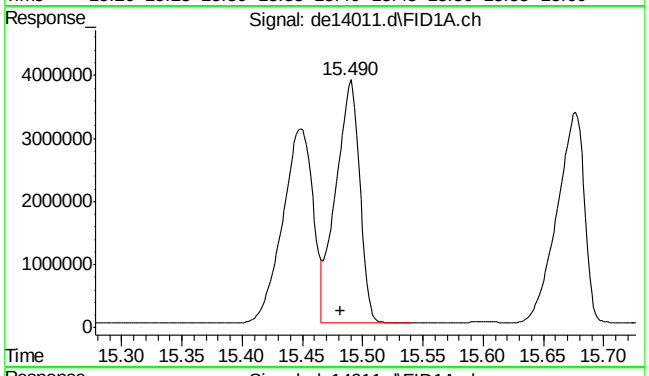
#18 benzo(a)pyrene

R.T.: 14.302 min
Delta R.T.: 0.005 min
Response: 5319401
Conc: 57.55 µg/ml



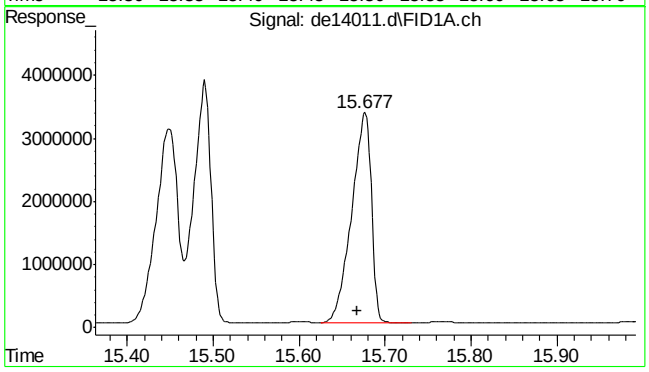
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.448 min
Delta R.T.: 0.005 min
Response: 5380292
Conc: 56.84 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.490 min
Delta R.T.: 0.008 min
Response: 5290442
Conc: 57.88 µg/ml



#21 benzo(ghi)perylene

R.T.: 15.677 min
Delta R.T.: 0.008 min
Response: 5260418
Conc: 57.10 µg/ml

9.5.10

9

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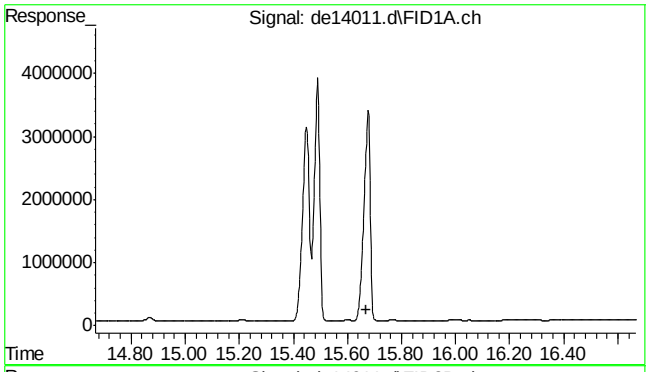
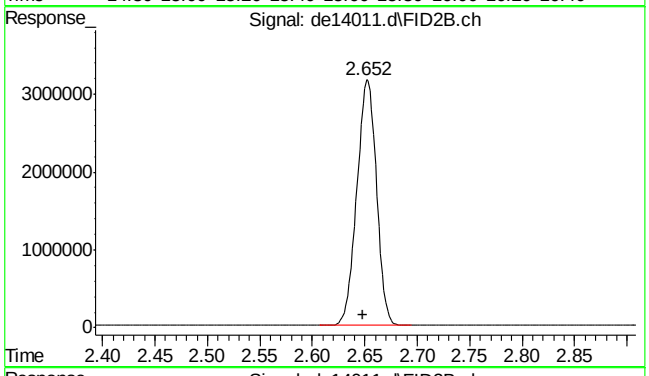


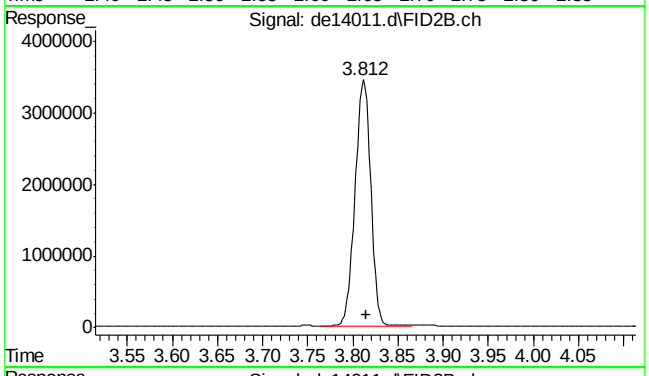
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



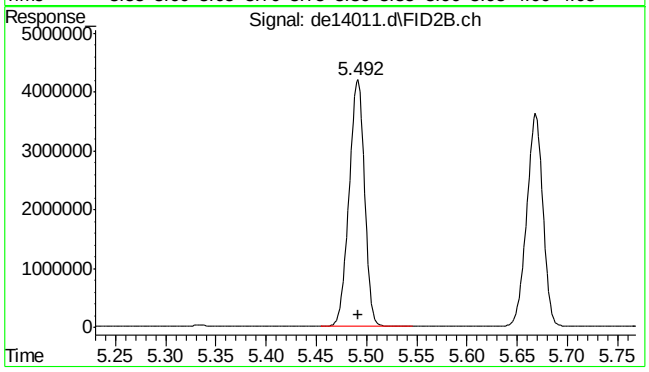
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4121294
Conc: 55.79 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4173595
Conc: 56.50 µg/ml



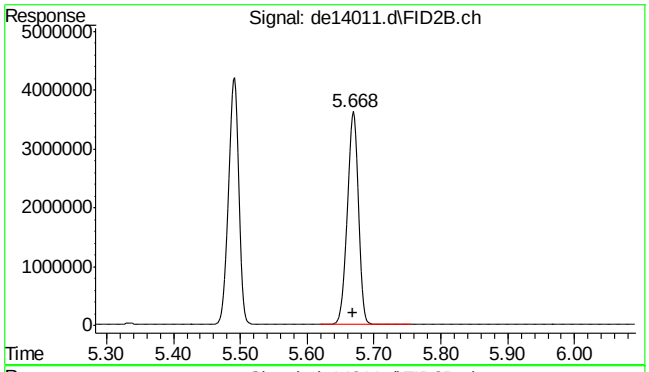
#27 naphthalene #2

R.T.: 5.492 min
Delta R.T.: 0.000 min
Response: 4443695
Conc: 55.63 µg/ml

9.5.10

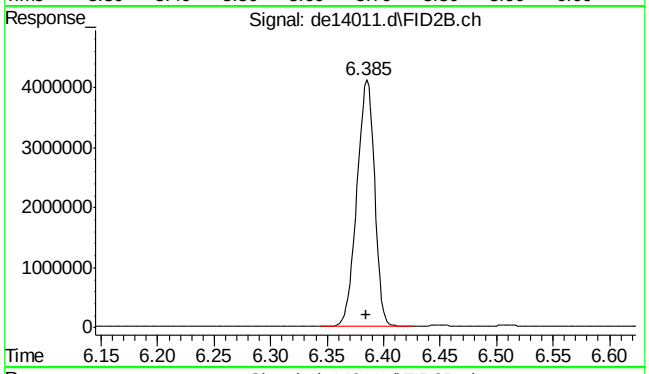
9

SGS ACCUTEST MC45611



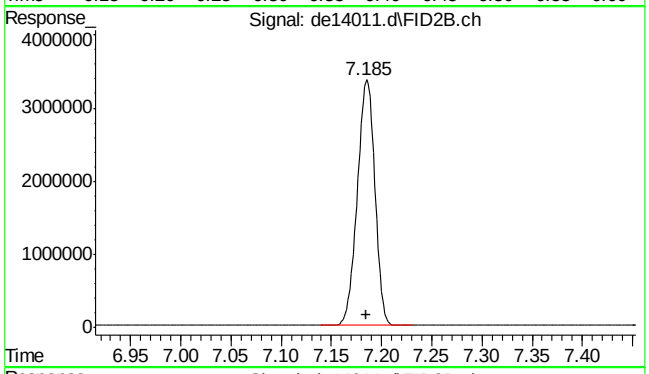
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 4130569
Conc: 55.92 µg/ml



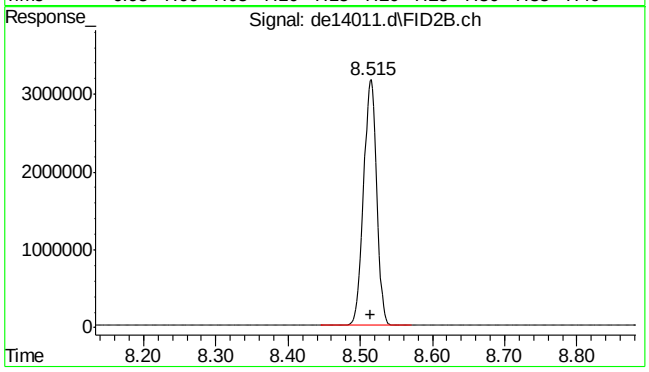
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4421416
Conc: 54.88 µg/ml



#30 c-14

R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 4066629
Conc: 55.05 µg/ml



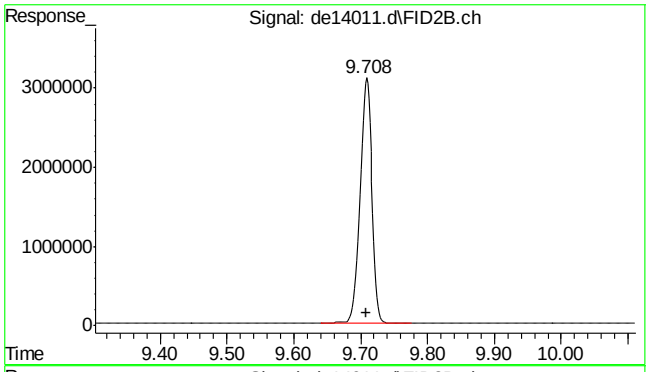
#31 c-16

R.T.: 8.515 min
Delta R.T.: 0.000 min
Response: 3983337
Conc: 53.92 µg/ml

9.5.10

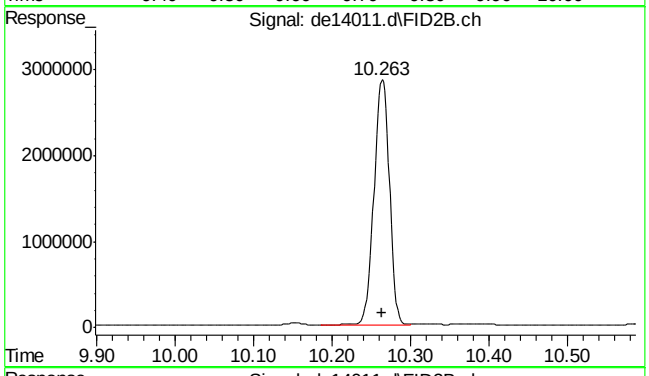
9

SGS ACCUTEST MC45611



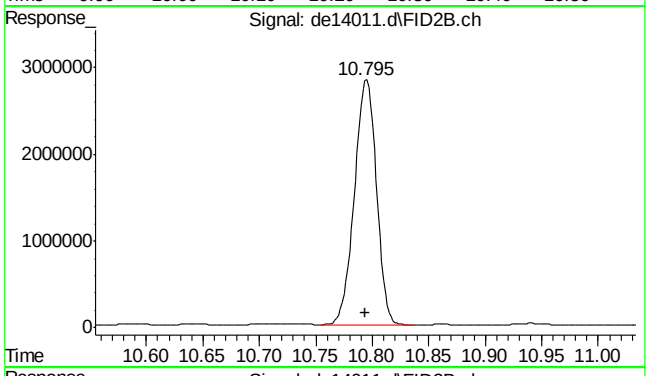
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3940458
Conc: 53.34 µg/ml



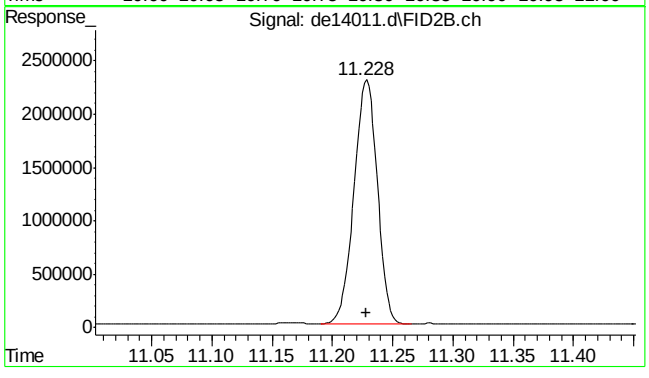
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3907901
Conc: 58.50 µg/ml



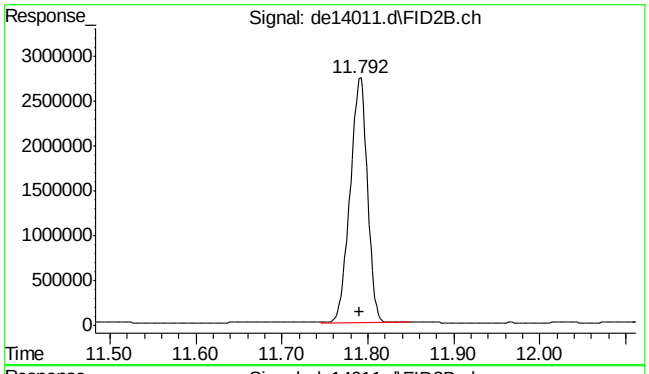
#34 c-20

R.T.: 10.795 min
Delta R.T.: 0.002 min
Response: 3820880
Conc: 57.19 µg/ml



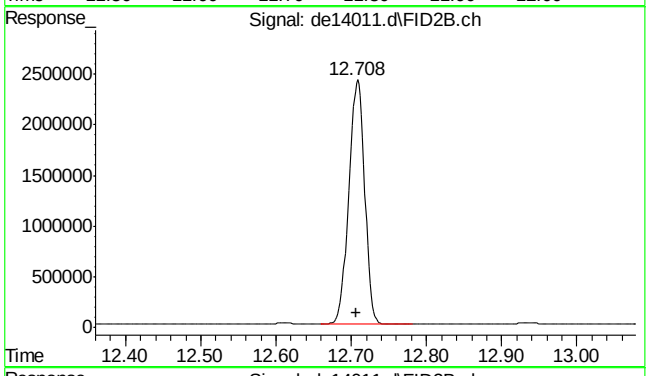
#35 1-chlorooctadecane

R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3087949
Conc: 54.58 µg/ml



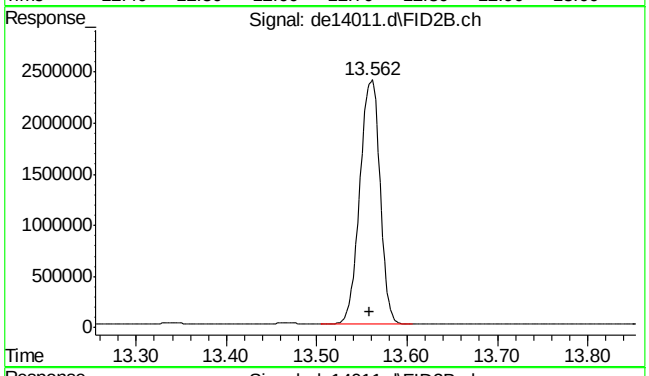
#36 c-22

R.T.: 11.792 min
Delta R.T.: 0.002 min
Response: 3784675
Conc: 56.65 µg/ml



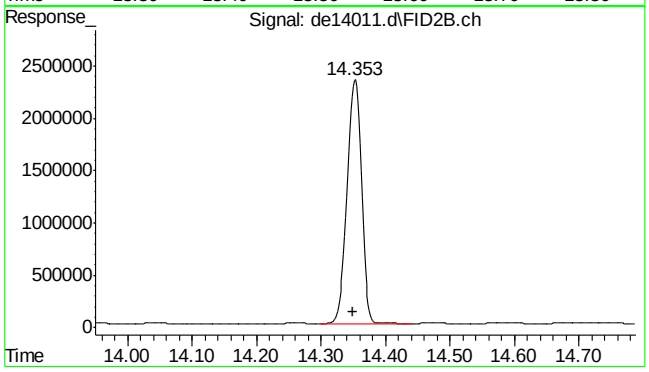
#37 c-24

R.T.: 12.708 min
Delta R.T.: 0.002 min
Response: 3518364
Conc: 52.67 µg/ml



#38 c-26

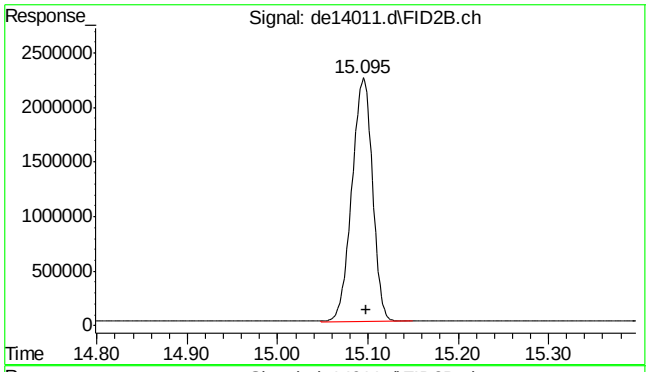
R.T.: 13.562 min
Delta R.T.: 0.003 min
Response: 3722516
Conc: 55.72 µg/ml



#39 c-28

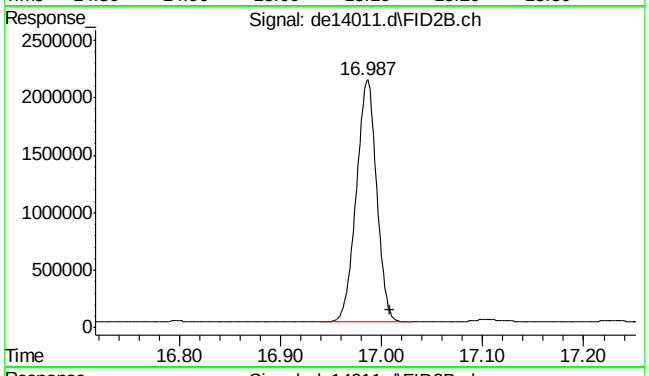
R.T.: 14.353 min
Delta R.T.: 0.003 min
Response: 3583205
Conc: 53.64 µg/ml

SGS ACCUTEST MC45611



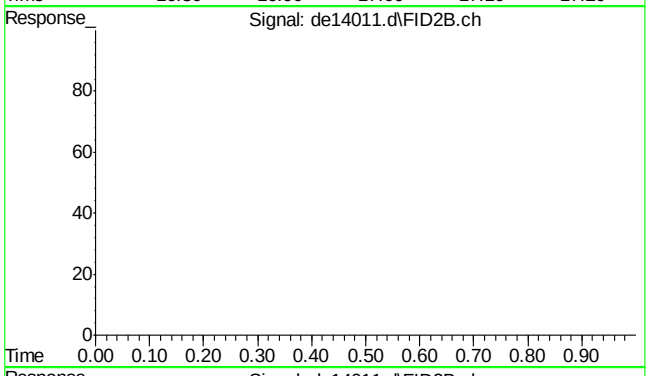
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3555929
Conc: 53.23 µg/ml



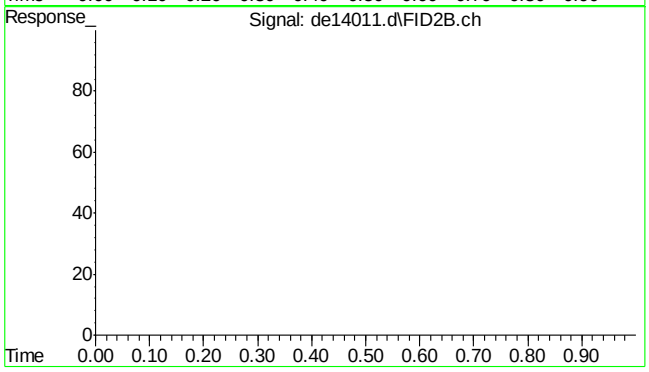
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2937348
Conc: 43.97 µg/ml m



#42 bht

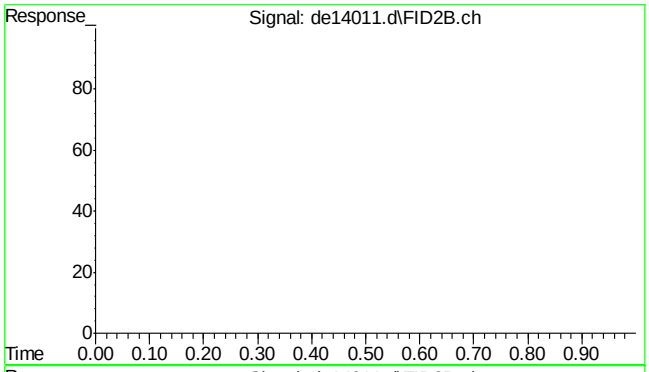
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

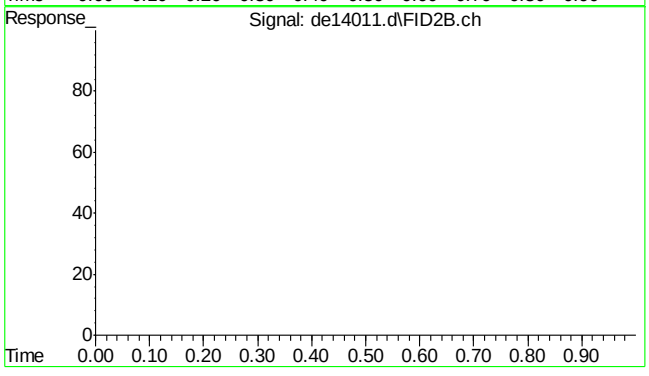
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45611



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.10

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14088.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 8:15 am
Operator : thomasa
Sample : cc735-50,gde791
Misc : op47424,gde791,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.607	4591660	49.785 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 248.92%#
6) s	2-bromonaphthalene	7.333	3108091	49.527 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 247.63%#
11) s	o-terphenyl	9.873	5126331	50.049 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 250.25%#
35) s	1-chlorooctadecane	11.228	3037119	53.683 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 268.41%#
	Target Compounds			
2)	naphthalene	5.153	5045529	48.919 µg/ml
3)	2-methylnaphthalene	6.053	5042560	49.204 µg/ml
5)	acenaphthylene	7.167	5059027	50.288 µg/ml
7)	acenaphthene	7.410	5242532	50.713 µg/ml
8)	fluorene	8.053	5099710	50.210 µg/ml
9)	phenanthrene	9.233	5100386	50.120 µg/ml
10)	anthracene	9.292	4926201	50.781 µg/ml
12)	fluoranthene	10.738	5051220	50.542 µg/ml
13)	pyrene	10.995	5181332	51.067 µg/ml
14)	benzo(a)anthracene	12.560	4935807	51.056 µg/ml
15)	chrysene	12.607	4975455	51.114 µg/ml
16)	benzo(B)fluoranthene	13.858	5019595	50.702 µg/ml
17)	benzo(k)fluoranthene	13.888	5116486	54.141 µg/ml
18)	benzo(a)pyrene	14.192	4843365	52.397 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.333	4986469	52.679 µg/ml
20)	dibenzo(ah)anthracene	15.377	4894791	53.554 µg/ml
21)	benzo(ghi)perylene	15.557	4936078	53.581 µg/ml
25) h	c-9	2.648	3939287	53.326 µg/mlm
26) h	c-10	3.815	4014880	54.349 µg/ml
27)	naphthalene #2	5.488	4273714	53.507 µg/ml
28)	c-12	5.667	3988540	53.992 µg/ml
29)	2-methylnaphthalene #2	6.383	4271179	53.014 µg/ml
30)	c-14	7.183	3948806	53.455 µg/ml
31)	c-16	8.513	3901693	52.817 µg/ml
32)	c-18	9.708	3896485	52.746 µg/ml
33)	c-19	10.263	3860641	57.788 µg/ml
34)	c-20	10.793	3782274	56.615 µg/ml
36)	c-22	11.790	3749797	56.129 µg/ml
37)	c-24	12.708	3496225	52.334 µg/ml
38)	c-26	13.558	3703960	55.443 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14088.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 8:15 am
Operator : thomasa
Sample : cc735-50,gde791
Misc : op47424,gde791,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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	14.352	3566031	53.379 µg/ml
40) h	c-30	15.098	3540812	53.001 µg/ml
41) h	c-36	17.008	3083146	46.150 µg/mlm

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

9.5.11

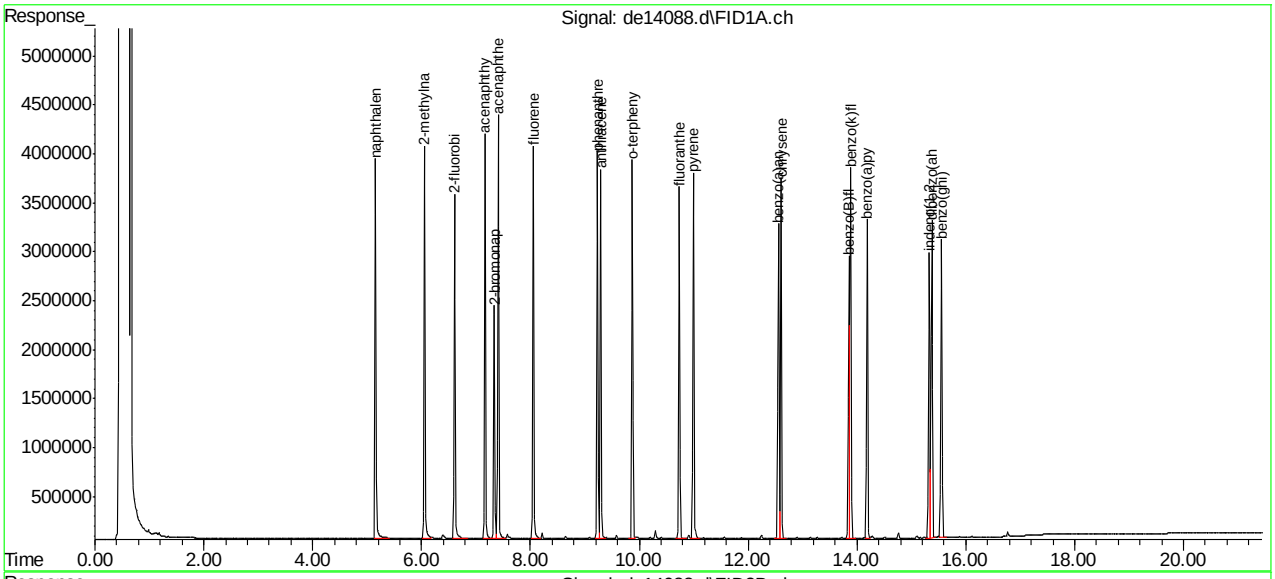
9

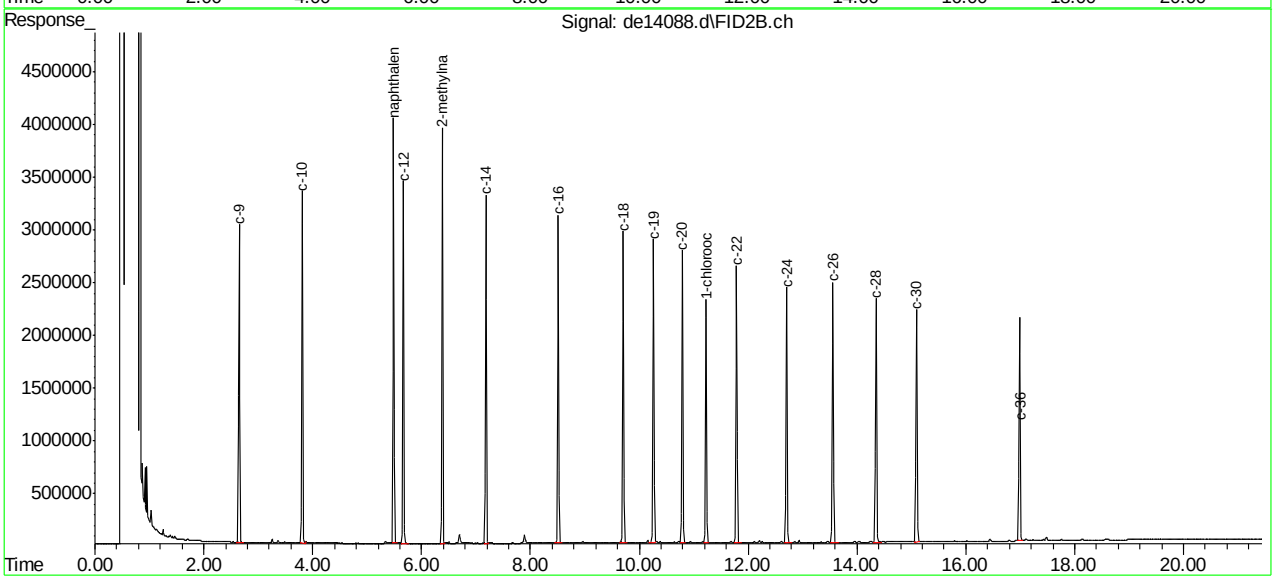
Quantitation Report (QT Reviewed)

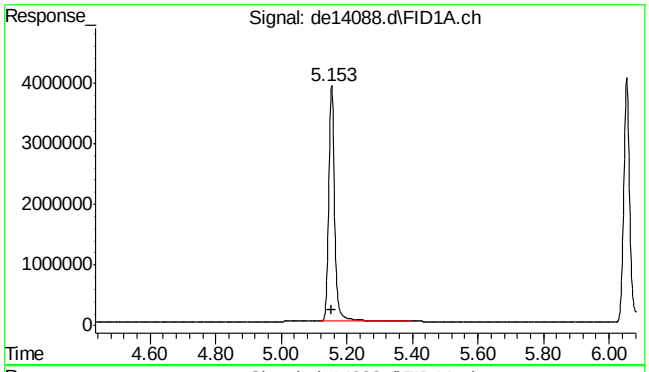
Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14088.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 8:15 am
Operator : thomasa
Sample : cc735-50,gde791
Misc : op47424,gde791,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

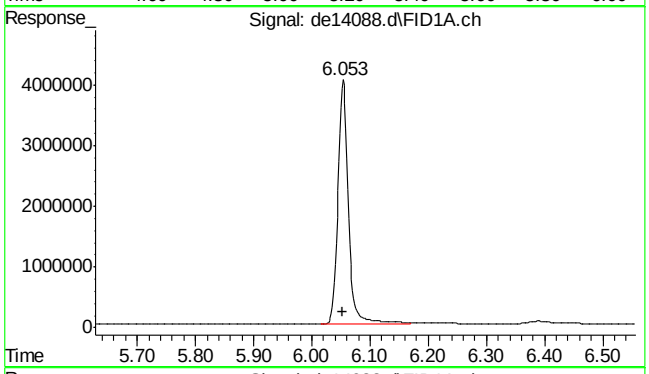






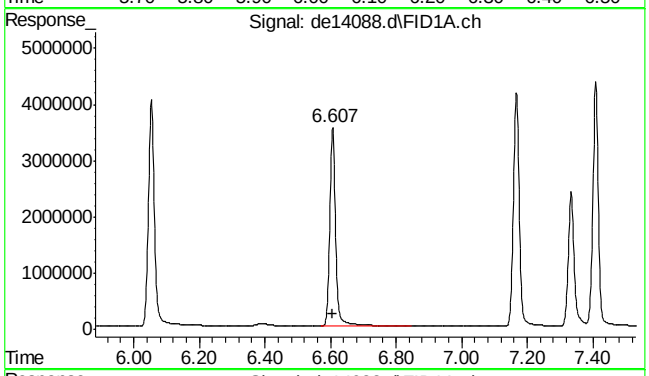
#2 naphthalene

R.T.: 5.153 min
Delta R.T.: 0.000 min
Response: 5045529
Conc: 48.92 µg/ml



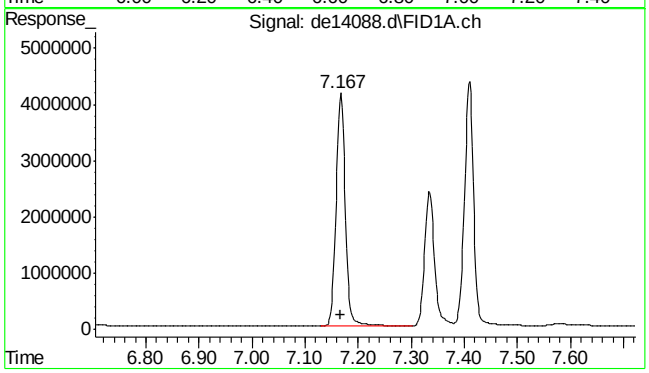
#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.000 min
Response: 5042560
Conc: 49.20 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.000 min
Response: 4591660
Conc: 49.78 µg/ml



#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 5059027
Conc: 50.29 µg/ml

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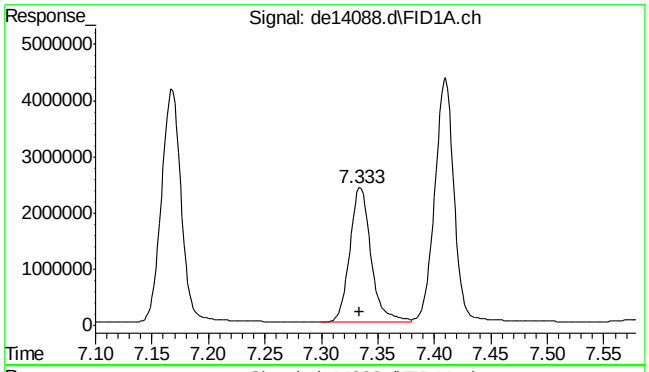
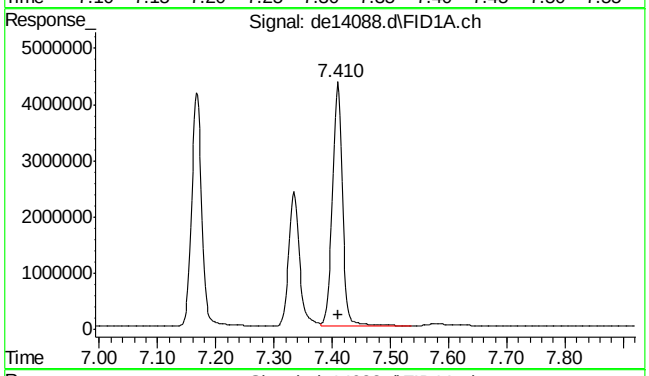


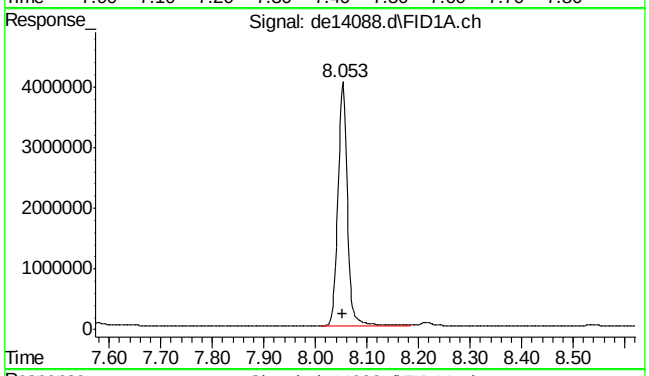
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 3108091
Conc: 49.53 µg/ml



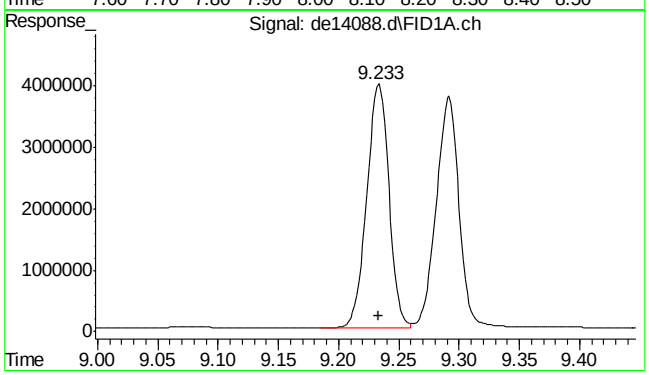
#7 acenaphthene

R.T.: 7.410 min
Delta R.T.: 0.000 min
Response: 5242532
Conc: 50.71 µg/ml



#8 fluorene

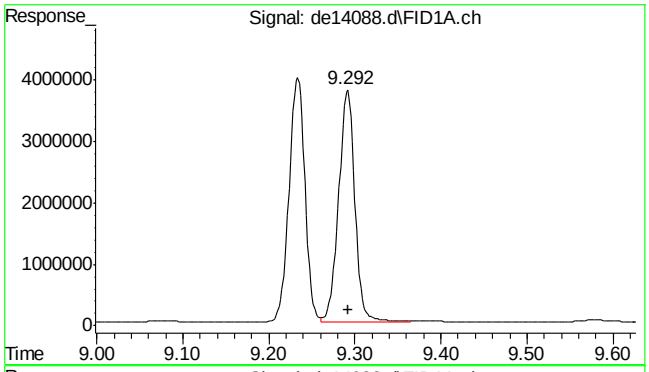
R.T.: 8.053 min
Delta R.T.: 0.000 min
Response: 5099710
Conc: 50.21 µg/ml



#9 phenanthrene

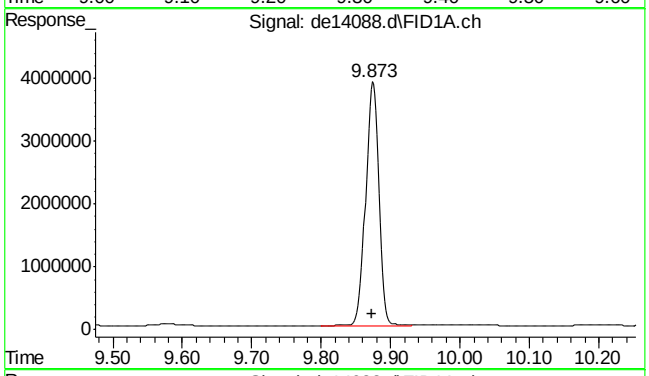
R.T.: 9.233 min
Delta R.T.: 0.000 min
Response: 5100386
Conc: 50.12 µg/ml

SGS ACCUTEST MC45611



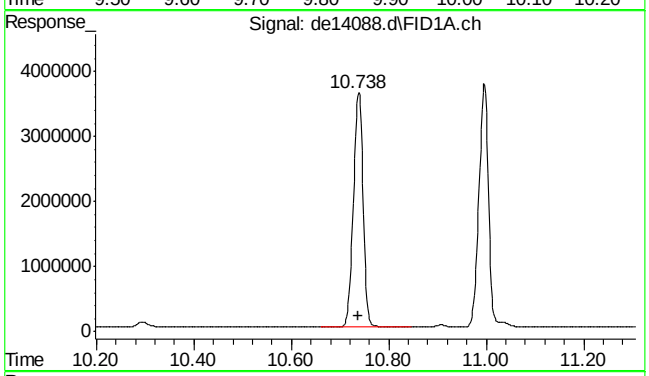
#10 anthracene

R.T.: 9.292 min
Delta R.T.: 0.000 min
Response: 4926201
Conc: 50.78 µg/ml



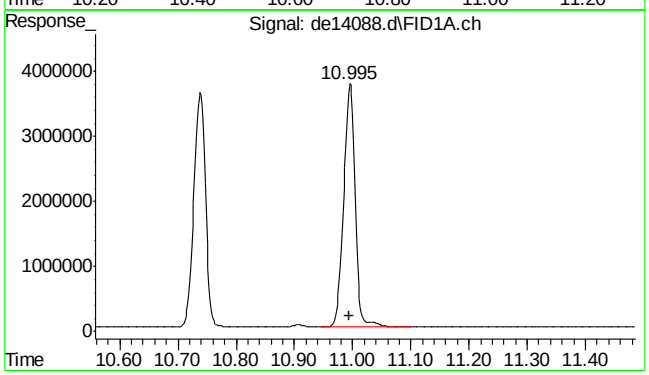
#11 o-terphenyl

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 5126331
Conc: 50.05 µg/ml



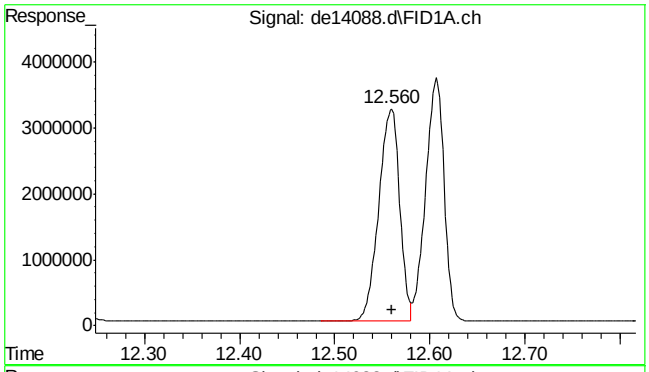
#12 fluoranthene

R.T.: 10.738 min
Delta R.T.: 0.000 min
Response: 5051220
Conc: 50.54 µg/ml



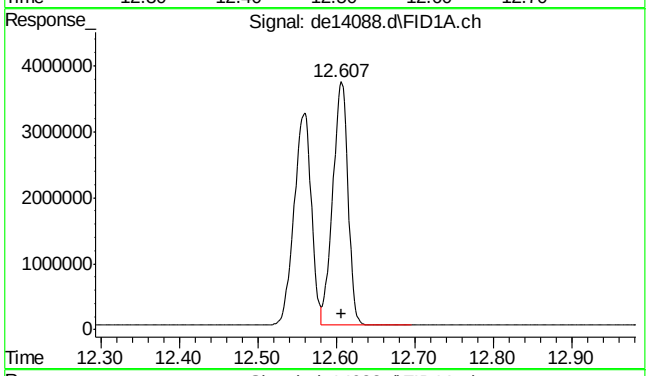
#13 pyrene

R.T.: 10.995 min
Delta R.T.: 0.000 min
Response: 5181332
Conc: 51.07 µg/ml



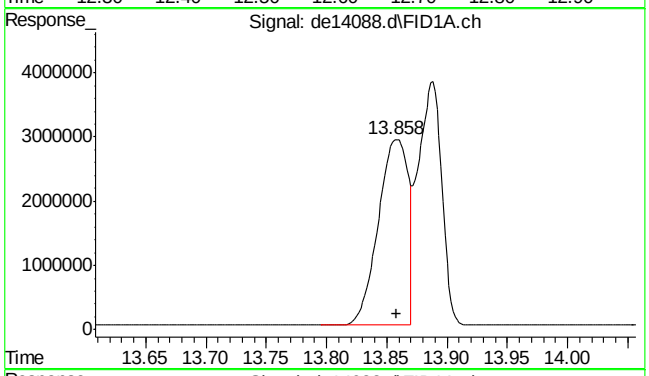
#14 benzo(a)anthracene

R.T.: 12.560 min
Delta R.T.: 0.000 min
Response: 4935807
Conc: 51.06 µg/ml



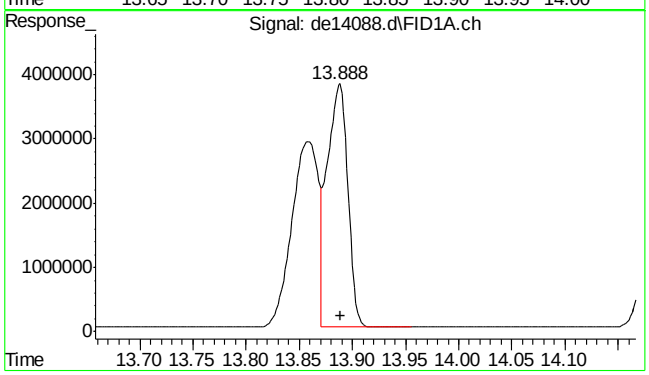
#15 chrysene

R.T.: 12.607 min
Delta R.T.: 0.000 min
Response: 4975455
Conc: 51.11 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.858 min
Delta R.T.: 0.000 min
Response: 5019595
Conc: 50.70 µg/ml



#17 benzo(k)fluoranthene

R.T.: 13.888 min
Delta R.T.: 0.000 min
Response: 5116486
Conc: 54.14 µg/ml

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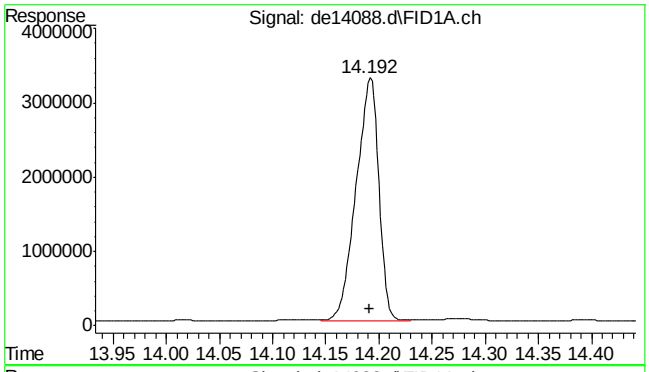
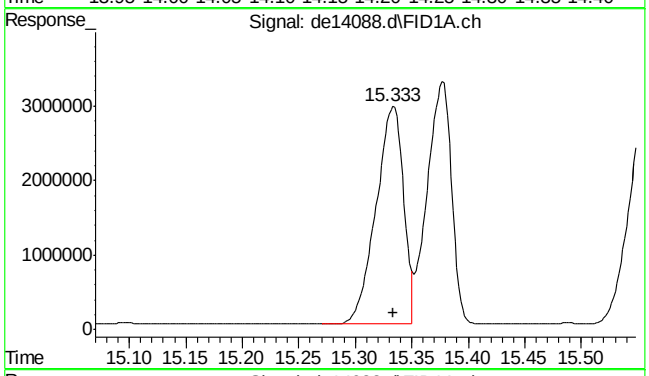


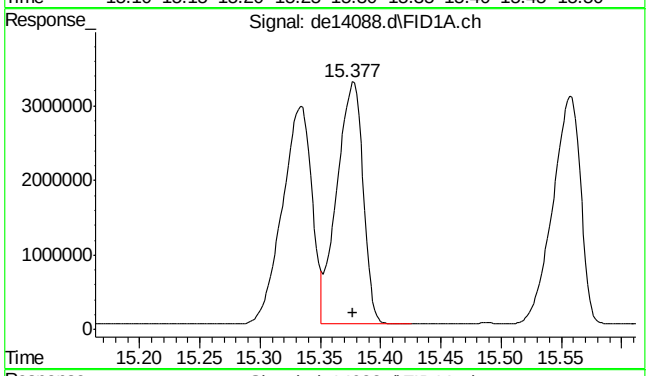
#18 benzo(a)pyrene

R.T.: 14.192 min
Delta R.T.: 0.000 min
Response: 4843365
Conc: 52.40 µg/ml



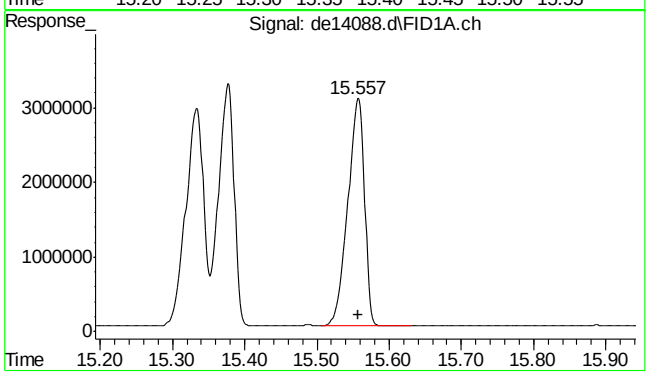
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.333 min
Delta R.T.: 0.000 min
Response: 4986469
Conc: 52.68 µg/ml



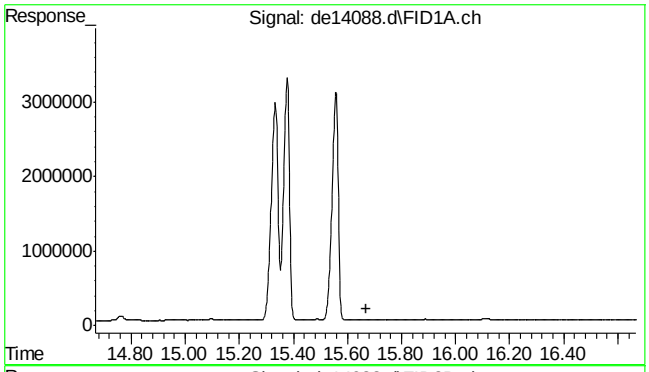
#20 dibenzo(ah)anthracene

R.T.: 15.377 min
Delta R.T.: 0.000 min
Response: 4894791
Conc: 53.55 µg/ml



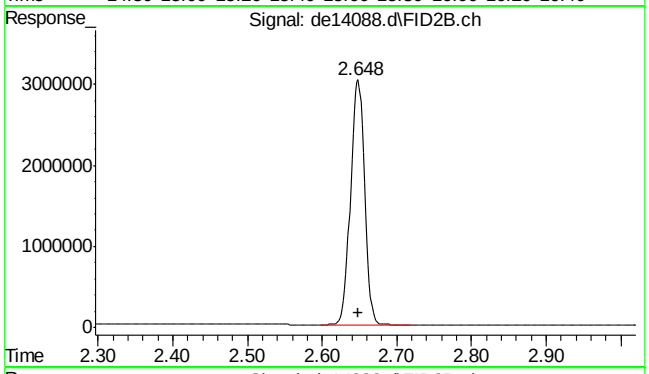
#21 benzo(ghi)perylene

R.T.: 15.557 min
Delta R.T.: 0.000 min
Response: 4936078
Conc: 53.58 µg/ml



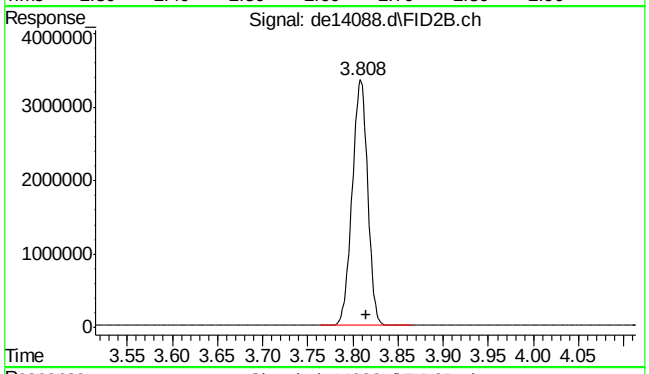
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



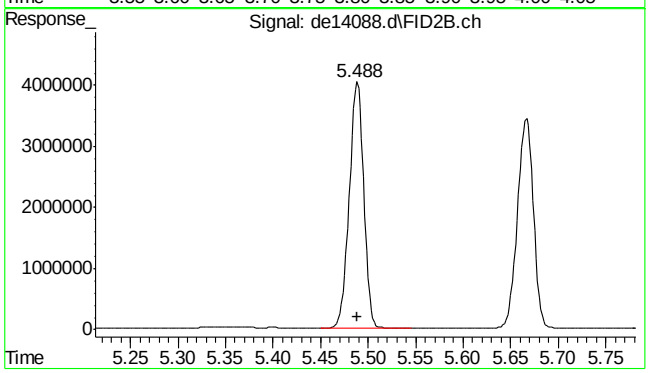
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3939287
Conc: 53.33 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4014880
Conc: 54.35 µg/ml



#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4273714
Conc: 53.51 µg/ml

9.5.11

9

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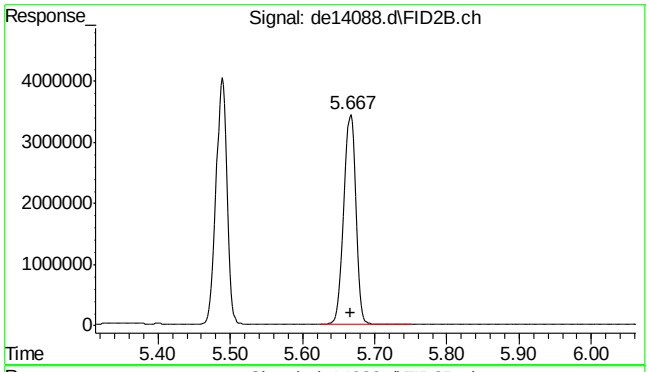
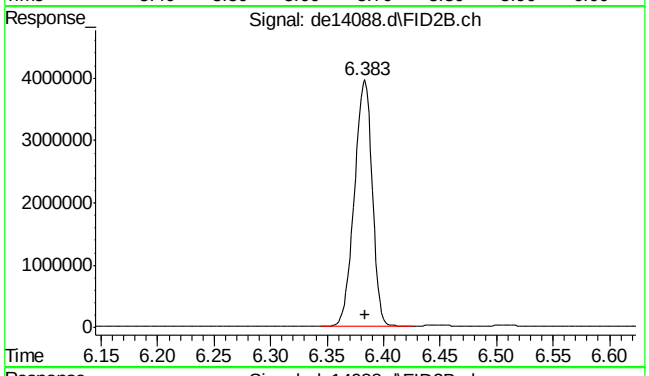


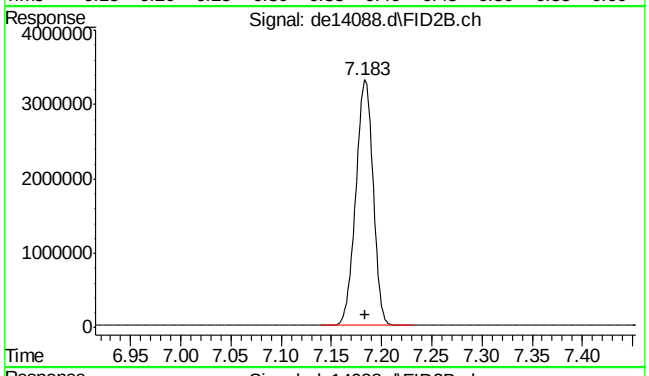
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3988540
Conc: 53.99 µg/ml



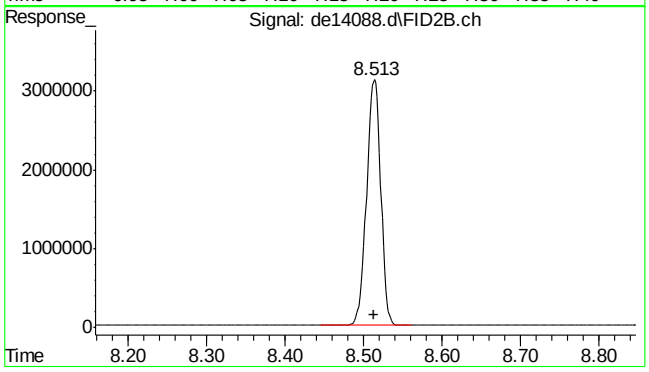
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4271179
Conc: 53.01 µg/ml



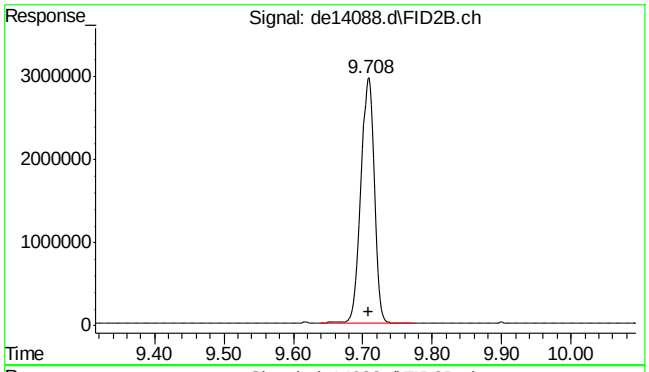
#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3948806
Conc: 53.45 µg/ml



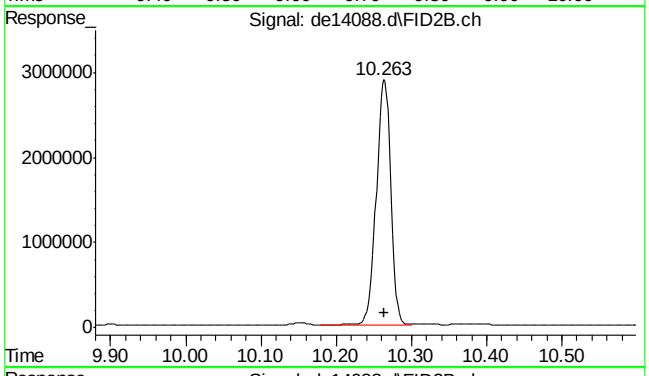
#31 c-16

R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3901693
Conc: 52.82 µg/ml



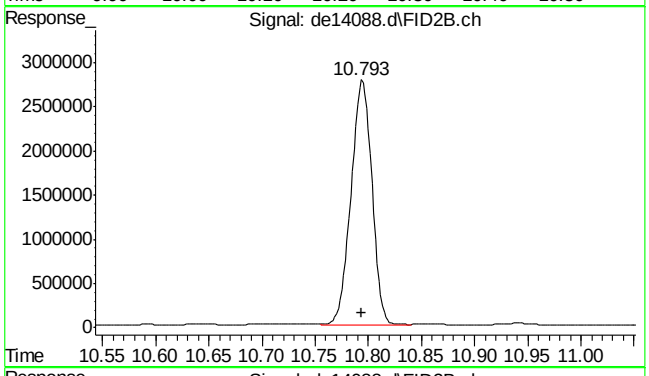
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3896485
Conc: 52.75 µg/ml



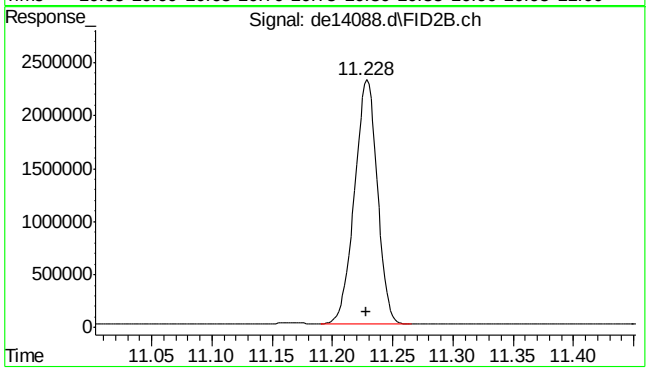
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3860641
Conc: 57.79 µg/ml



#34 c-20

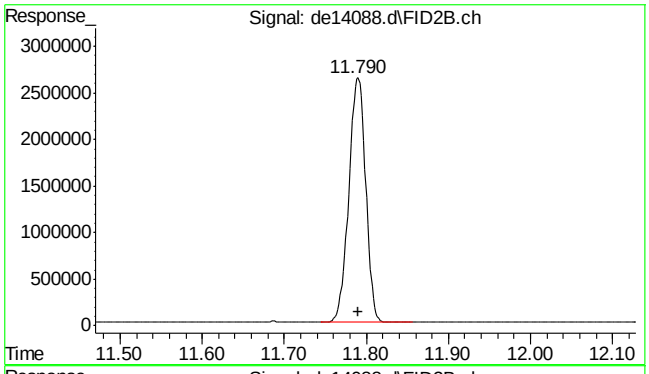
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3782274
Conc: 56.62 µg/ml



#35 1-chlorooctadecane

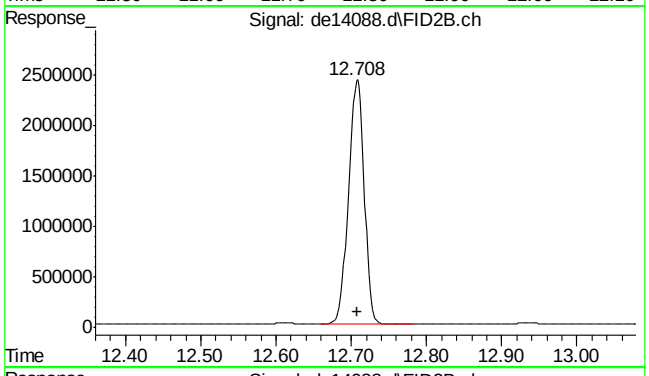
R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3037119
Conc: 53.68 µg/ml

SGS ACCUTEST MC45611



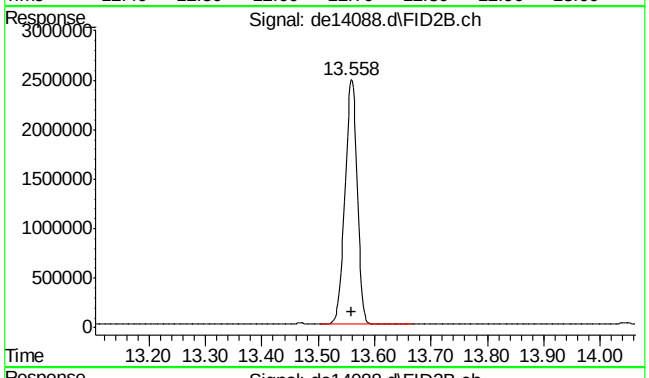
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3749797
Conc: 56.13 µg/ml



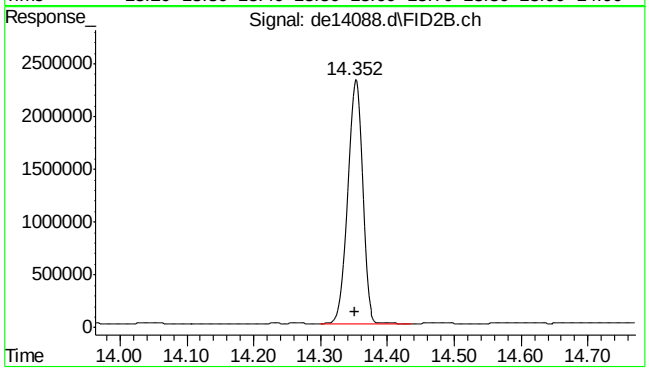
#37 c-24

R.T.: 12.708 min
Delta R.T.: 0.000 min
Response: 3496225
Conc: 52.33 µg/ml



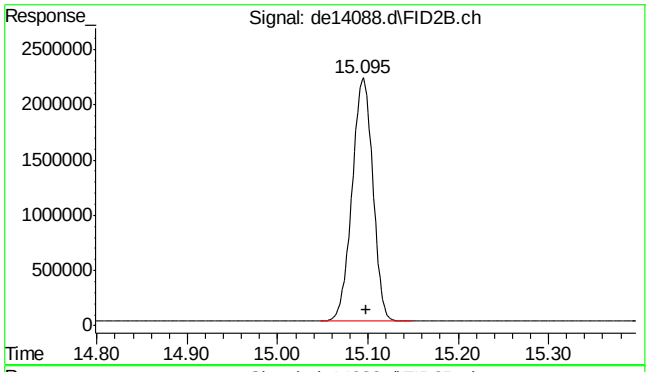
#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3703960
Conc: 55.44 µg/ml



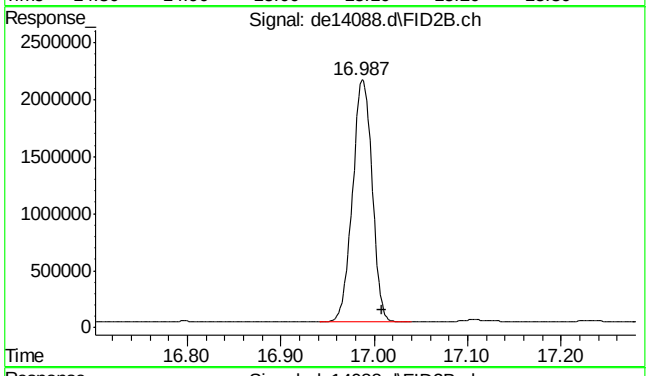
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.000 min
Response: 3566031
Conc: 53.38 µg/ml



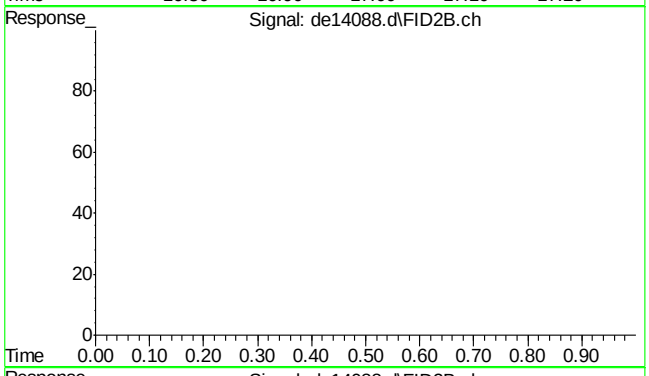
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3540812
Conc: 53.00 µg/ml



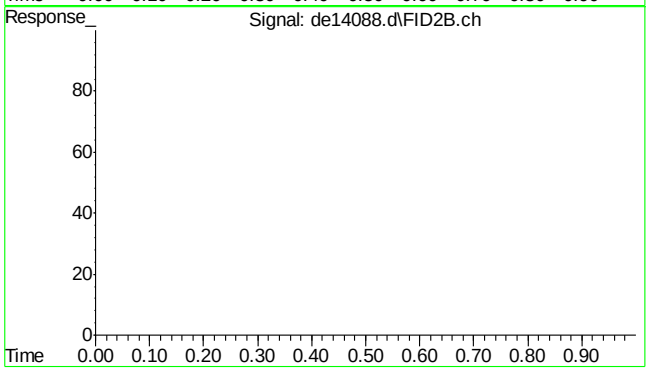
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3083146
Conc: 46.15 µg/ml m



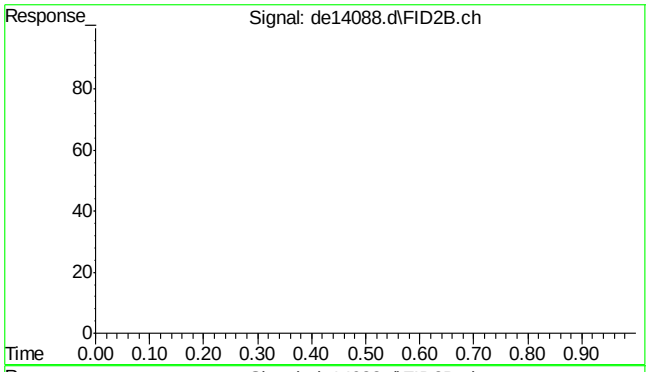
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



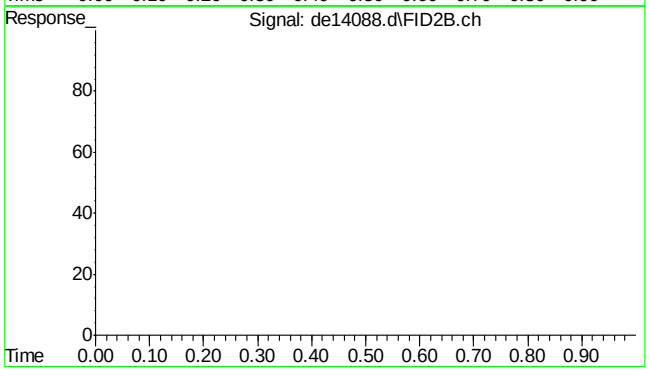
#43 bht

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.
```

9.5.11

9

SGS ACCUTEST MC45611

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14099.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 1:27 pm
Operator : thomasa
Sample : cc735-50,gde791
Misc : op47424,gde791,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.607	5167619	56.030 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 280.15%#
6) s	2-bromonaphthalene	7.335	3498656	55.751 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 278.76%#
11) s	o-terphenyl	9.875	5706373	55.712 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 278.56%#
35) s	1-chlorooctadecane	11.227	3087437	54.573 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 272.87%#
	Target Compounds			
2)	naphthalene	5.153	5755789	55.806 µg/ml
3)	2-methylnaphthalene	6.055	5686057	55.483 µg/ml
5)	acenaphthylene	7.168	5694693	56.606 µg/ml
7)	acenaphthene	7.412	5890214	56.978 µg/ml
8)	fluorene	8.053	5727556	56.392 µg/ml
9)	phenanthrene	9.235	5687297	55.888 µg/ml
10)	anthracene	9.292	5463173	56.317 µg/ml
12)	fluoranthene	10.740	5556489	55.598 µg/ml
13)	pyrene	10.997	5695325	56.132 µg/ml
14)	benzo(a)anthracene	12.560	5341913	55.256 µg/ml
15)	chrysene	12.608	5338665	54.845 µg/ml
16)	benzo(B)fluoranthene	13.860	5412345	54.669 µg/ml
17)	benzo(k)fluoranthene	13.890	5330952	56.411 µg/ml
18)	benzo(a)pyrene	14.193	5115344	55.340 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.333	5266476	55.637 µg/ml
20)	dibenzo(ah)anthracene	15.377	5038692	55.129 µg/ml
21)	benzo(ghi)perylene	15.558	5114239	55.515 µg/ml
25) h	c-9	2.648	3985814	53.956 µg/mlm
26) h	c-10	3.815	4054273	54.882 µg/ml
27)	naphthalene #2	5.488	4319529	54.080 µg/ml
28)	c-12	5.667	4030830	54.565 µg/ml
29)	2-methylnaphthalene #2	6.382	4324803	53.680 µg/ml
30)	c-14	7.183	3998119	54.122 µg/ml
31)	c-16	8.513	3946921	53.429 µg/ml
32)	c-18	9.707	3937360	53.300 µg/ml
33)	c-19	10.263	3899975	58.377 µg/ml
34)	c-20	10.795	3824714	57.251 µg/ml
36)	c-22	11.790	3792304	56.766 µg/ml
37)	c-24	12.707	3539947	52.988 µg/ml
38)	c-26	13.558	3755394	56.213 µg/ml

SGS ACCUTEST MC45611

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14099.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 1:27 pm
Operator : thomasa
Sample : cc735-50,gde791
Misc : op47424,gde791,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 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	14.352	3621596	54.210	µg/ml
40) h	c-30	15.098	3611024	54.052	µg/ml
41) h	c-36	17.008	3235321	48.428	µg/mlm

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

9.5.12

9

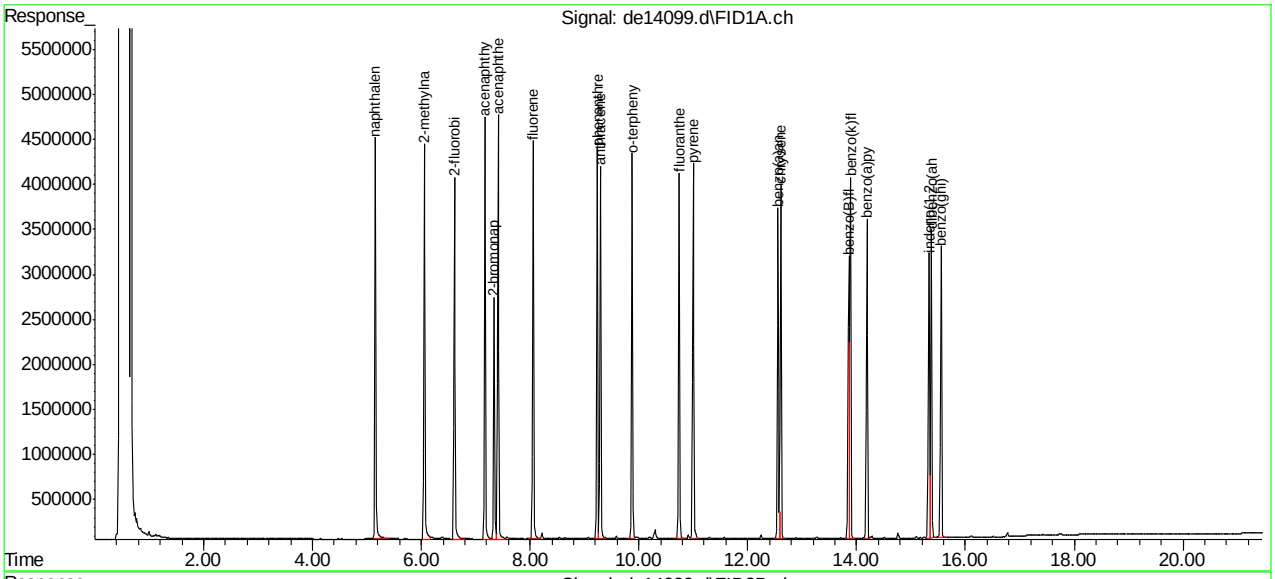
SGS ACCUTEST MC45611

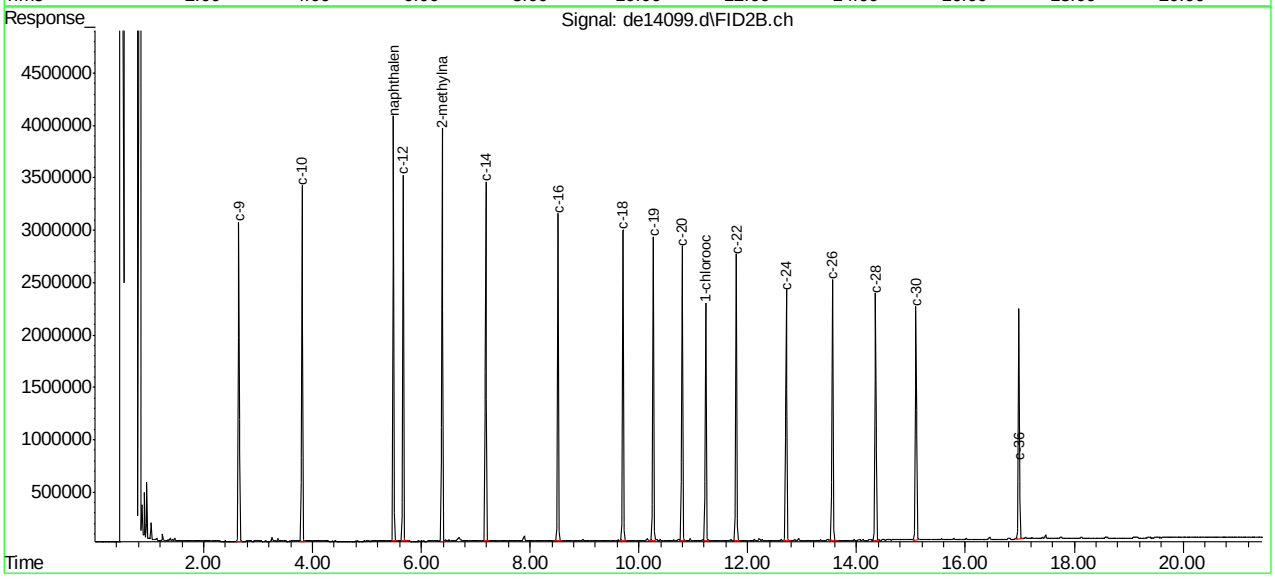
Quantitation Report (QT Reviewed)

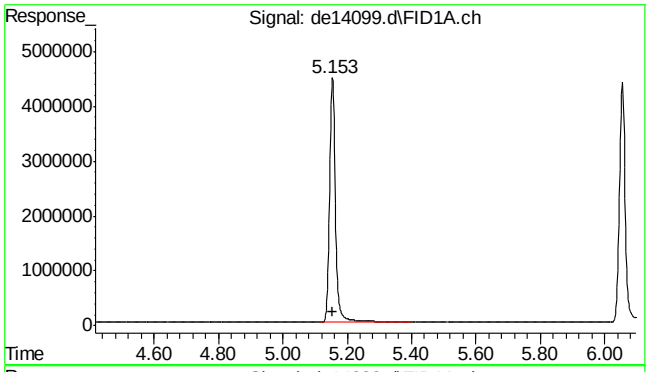
Data Path : C:\msdchem\1\DATA\DE160516EPH\
Data File : de14099.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 16 May 2016 1:27 pm
Operator : thomasa
Sample : cc735-50,gde791
Misc : op47424,gde791,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 16 13:54:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160516W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 16 08:38:55 2016
Response via : Initial Calibration
Integrator: RTE

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

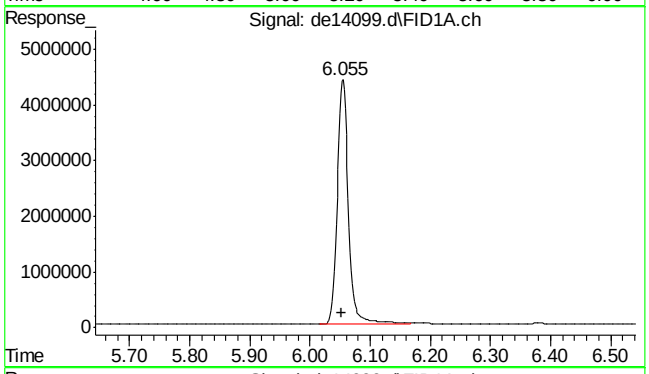






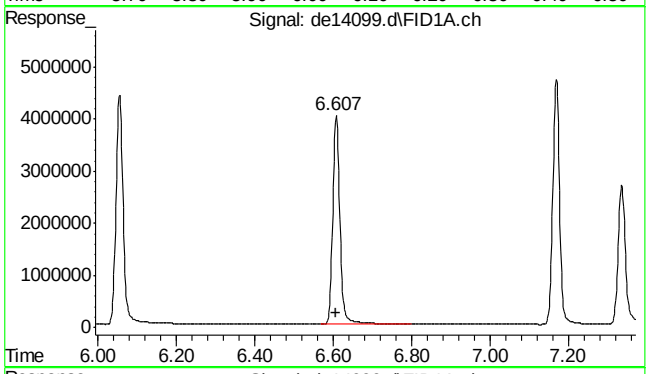
#2 naphthalene

R.T.: 5.153 min
Delta R.T.: 0.000 min
Response: 5755789
Conc: 55.81 µg/ml



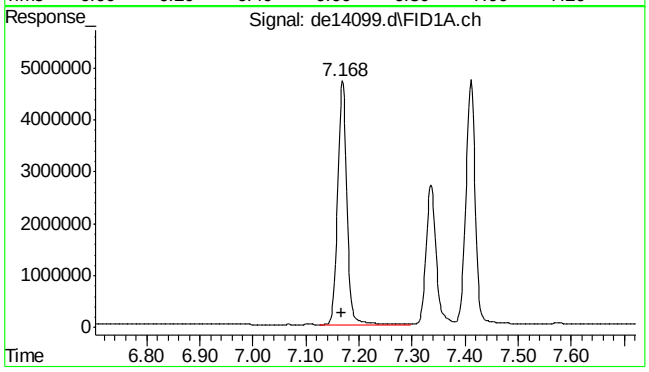
#3 2-methylnaphthalene

R.T.: 6.055 min
Delta R.T.: 0.002 min
Response: 5686057
Conc: 55.48 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.000 min
Response: 5167619
Conc: 56.03 µg/ml



#5 acenaphthylene

R.T.: 7.168 min
Delta R.T.: 0.002 min
Response: 5694693
Conc: 56.61 µg/ml

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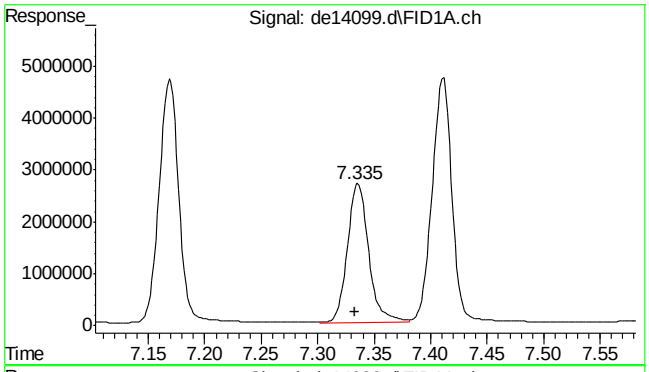
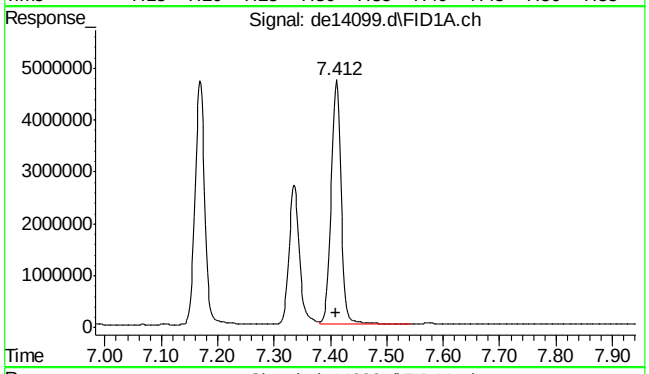


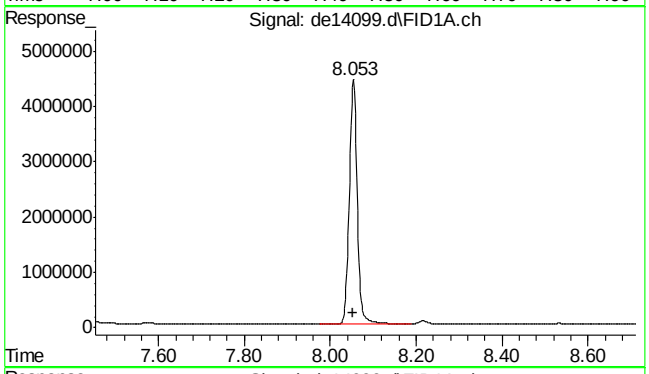
#6 2-bromonaphthalene

R.T.: 7.335 min
Delta R.T.: 0.002 min
Response: 3498656
Conc: 55.75 µg/ml



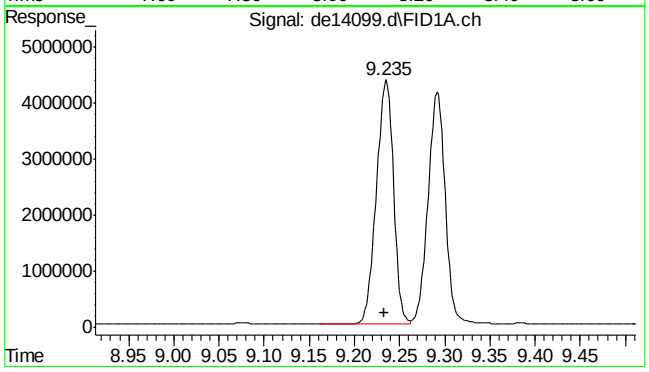
#7 acenaphthene

R.T.: 7.412 min
Delta R.T.: 0.002 min
Response: 5890214
Conc: 56.98 µg/ml



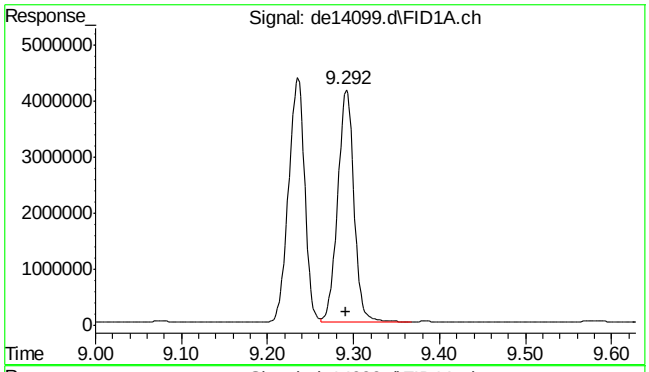
#8 fluorene

R.T.: 8.053 min
Delta R.T.: 0.000 min
Response: 5727556
Conc: 56.39 µg/ml



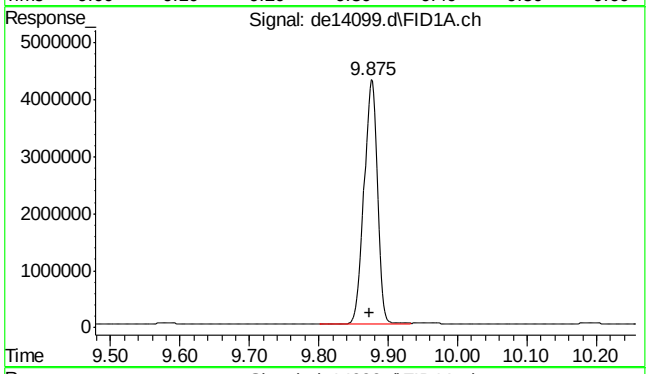
#9 phenanthrene

R.T.: 9.235 min
Delta R.T.: 0.002 min
Response: 5687297
Conc: 55.89 µg/ml



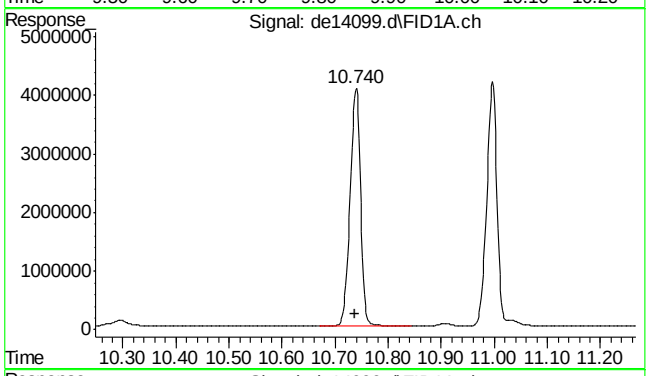
#10 anthracene

R.T.: 9.292 min
Delta R.T.: 0.000 min
Response: 5463173
Conc: 56.32 µg/ml



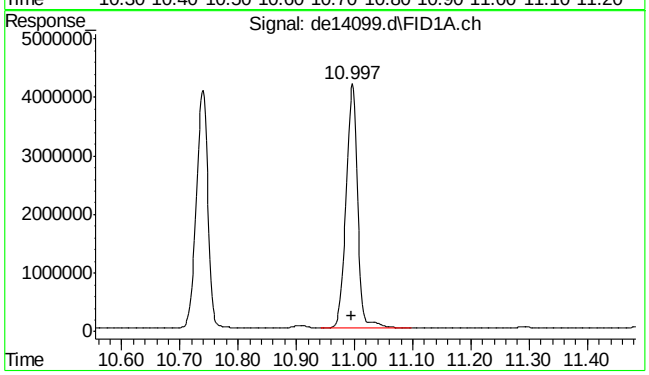
#11 o-terphenyl

R.T.: 9.875 min
Delta R.T.: 0.002 min
Response: 5706373
Conc: 55.71 µg/ml



#12 fluoranthene

R.T.: 10.740 min
Delta R.T.: 0.002 min
Response: 5556489
Conc: 55.60 µg/ml



#13 pyrene

R.T.: 10.997 min
Delta R.T.: 0.002 min
Response: 5695325
Conc: 56.13 µg/ml

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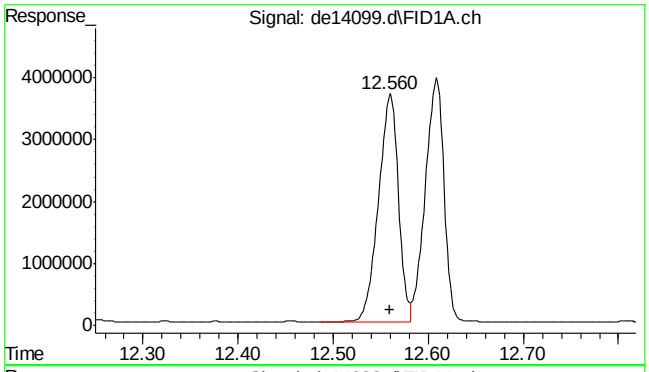
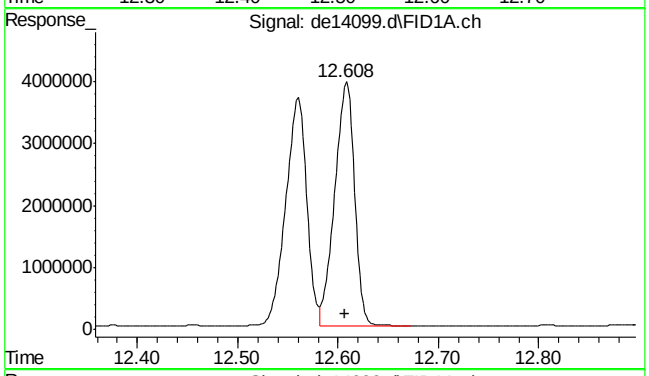


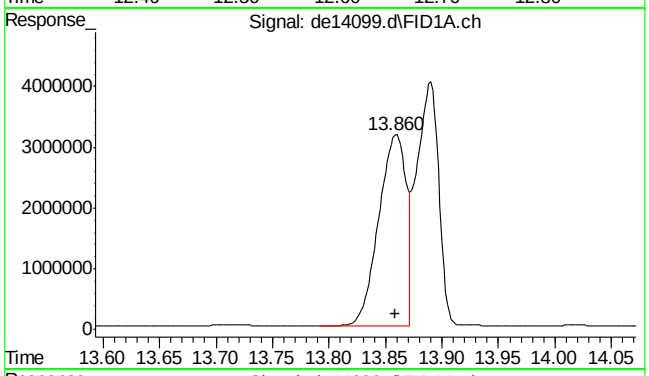
#14 benzo(a)anthracene

R.T.: 12.560 min
Delta R.T.: 0.000 min
Response: 5341913
Conc: 55.26 µg/ml



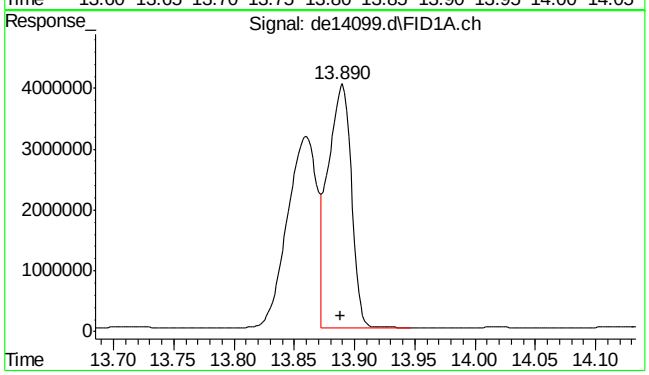
#15 chrysene

R.T.: 12.608 min
Delta R.T.: 0.002 min
Response: 5338665
Conc: 54.84 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.860 min
Delta R.T.: 0.002 min
Response: 5412345
Conc: 54.67 µg/ml



#17 benzo(k)fluoranthene

R.T.: 13.890 min
Delta R.T.: 0.002 min
Response: 5330952
Conc: 56.41 µg/ml

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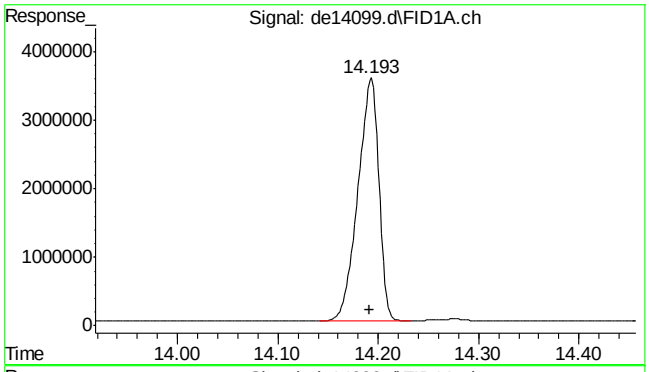
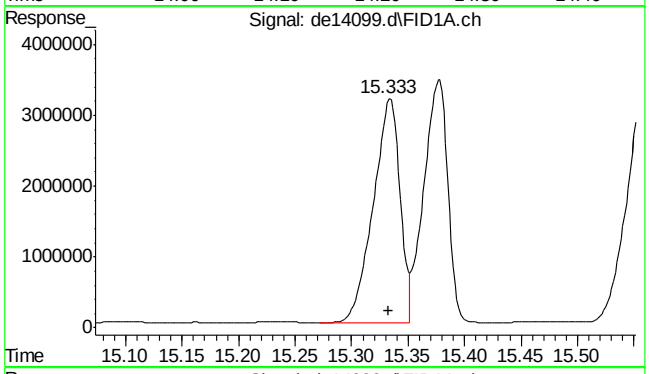


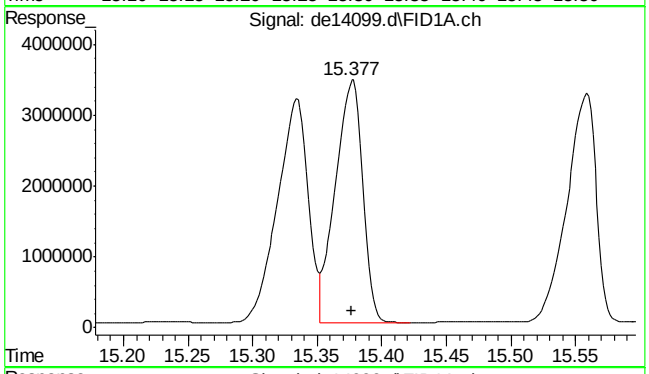
#18 benzo(a)pyrene

R.T.: 14.193 min
Delta R.T.: 0.002 min
Response: 5115344
Conc: 55.34 µg/ml



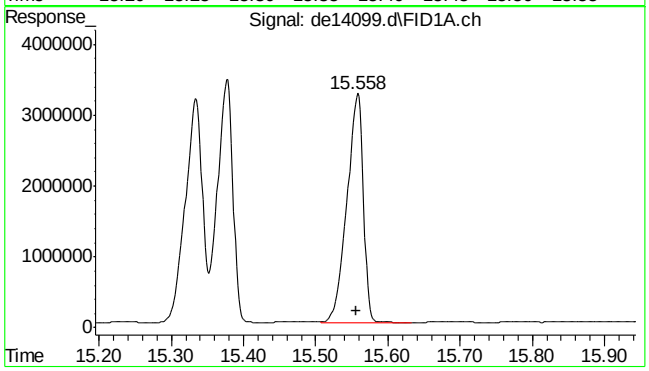
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.333 min
Delta R.T.: 0.000 min
Response: 5266476
Conc: 55.64 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.377 min
Delta R.T.: 0.000 min
Response: 5038692
Conc: 55.13 µg/ml



#21 benzo(ghi)perylene

R.T.: 15.558 min
Delta R.T.: 0.002 min
Response: 5114239
Conc: 55.52 µg/ml

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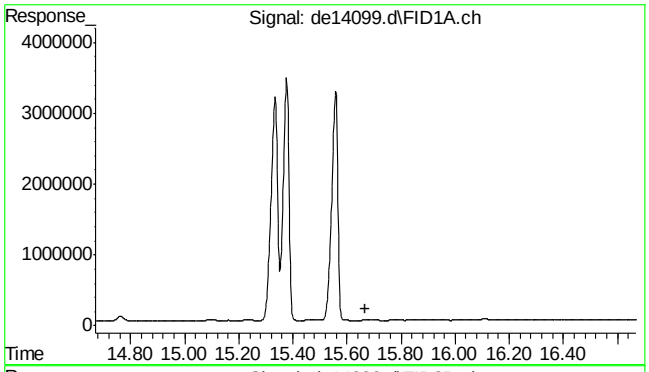
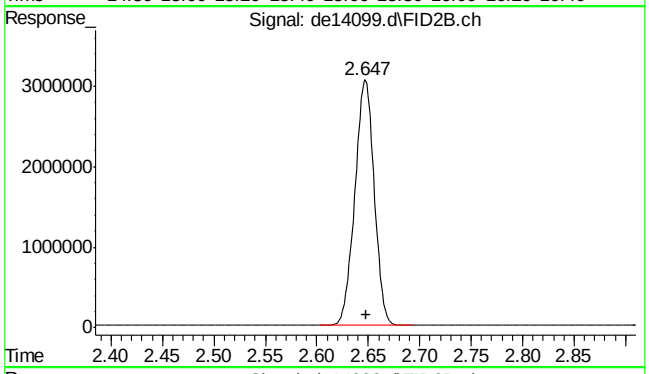


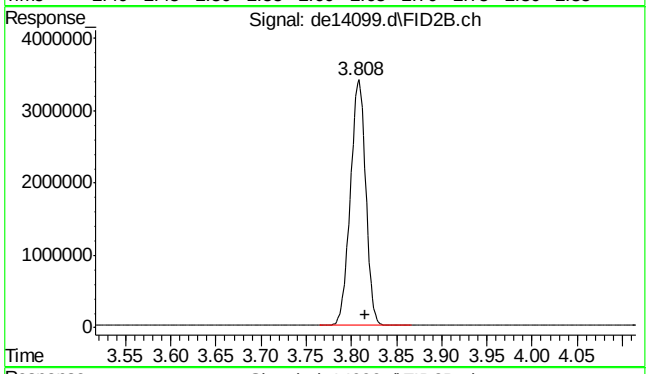
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



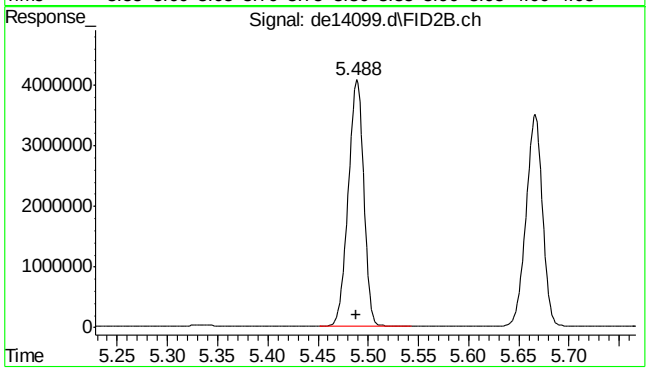
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3985814
Conc: 53.96 µg/ml m



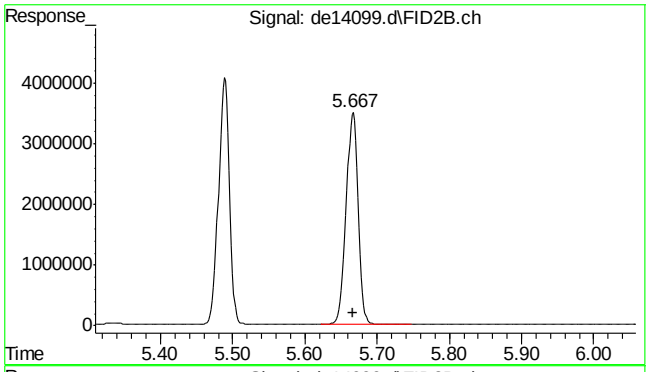
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4054273
Conc: 54.88 µg/ml



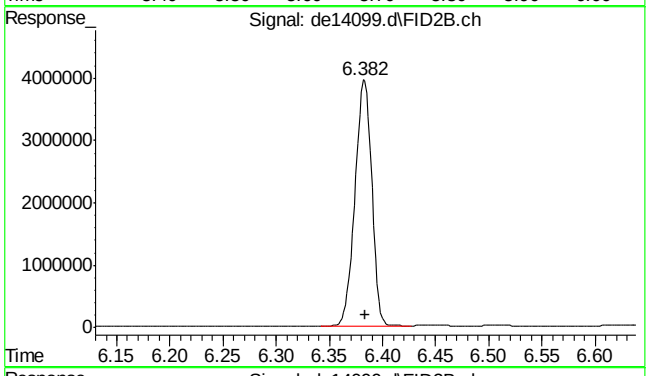
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4319529
Conc: 54.08 µg/ml



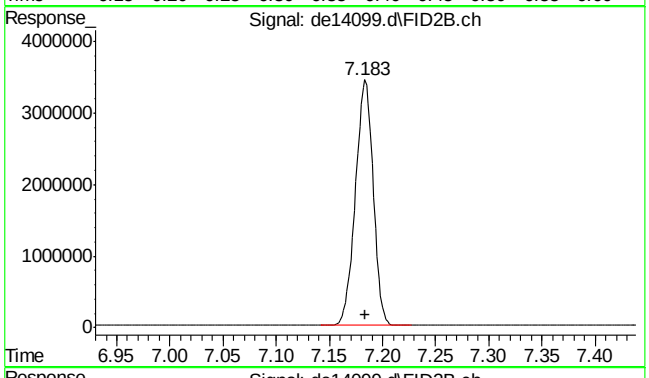
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 4030830
Conc: 54.56 µg/ml



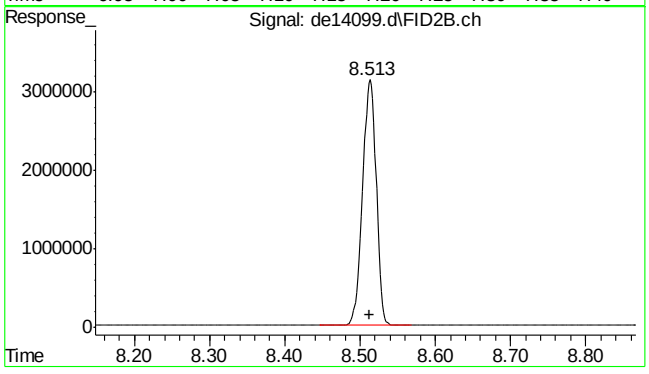
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 4324803
Conc: 53.68 µg/ml



#30 c-14

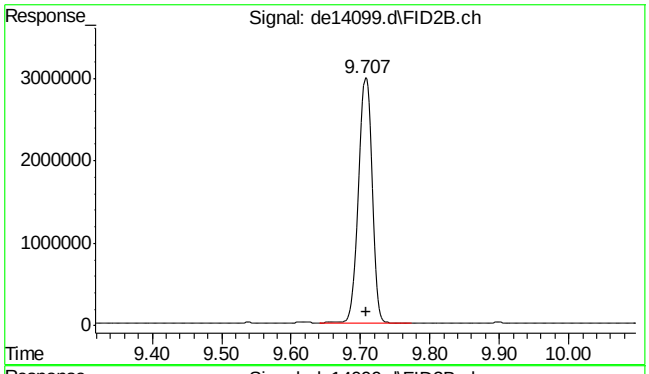
R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3998119
Conc: 54.12 µg/ml



#31 c-16

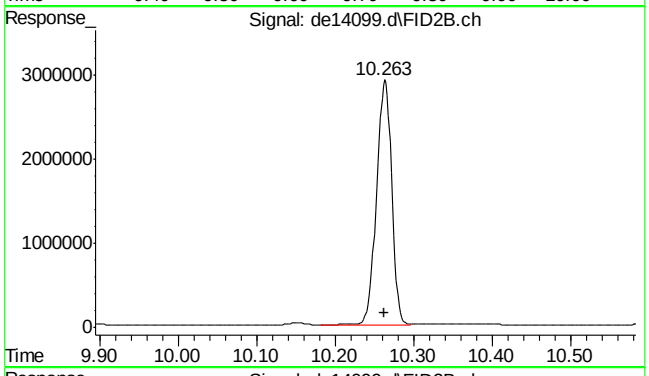
R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3946921
Conc: 53.43 µg/ml

SGS ACCUTEST MC45611



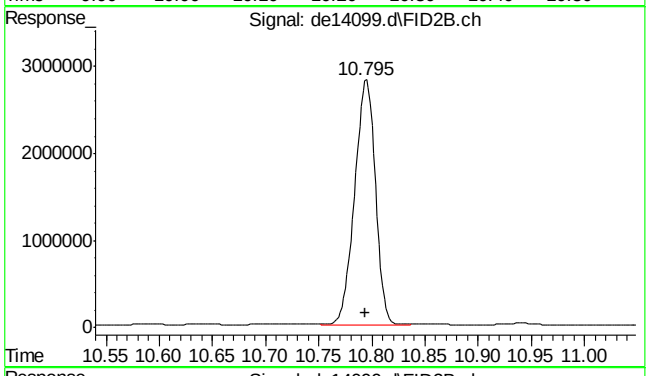
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 3937360
Conc: 53.30 µg/ml



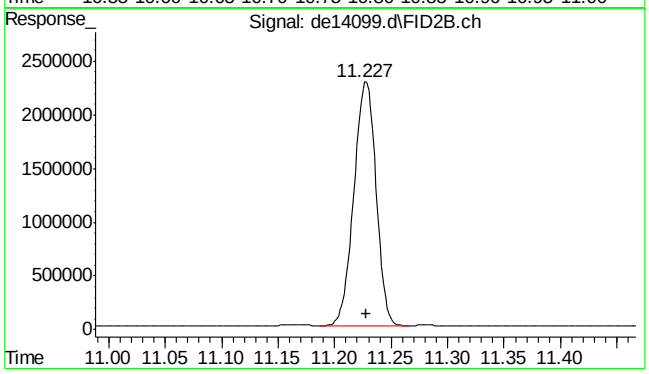
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3899975
Conc: 58.38 µg/ml



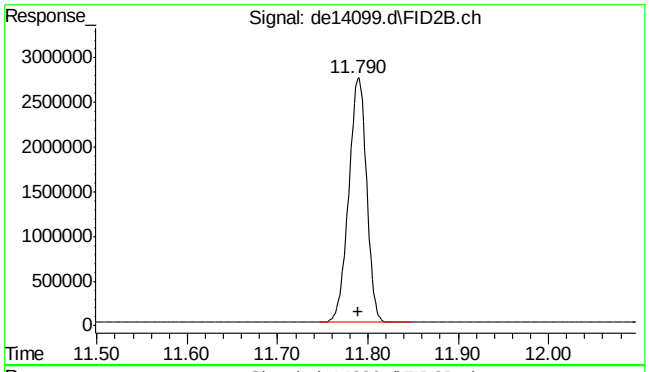
#34 c-20

R.T.: 10.795 min
Delta R.T.: 0.002 min
Response: 3824714
Conc: 57.25 µg/ml



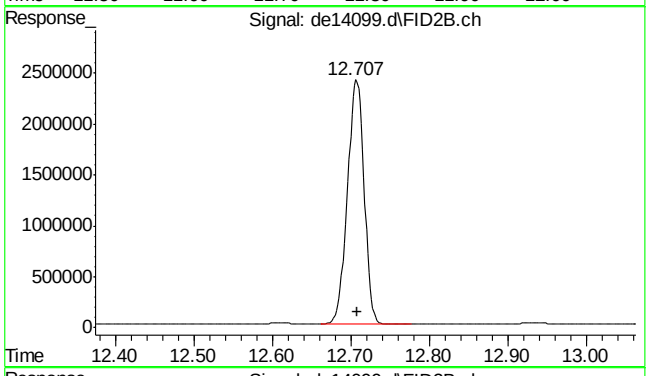
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 3087437
Conc: 54.57 µg/ml



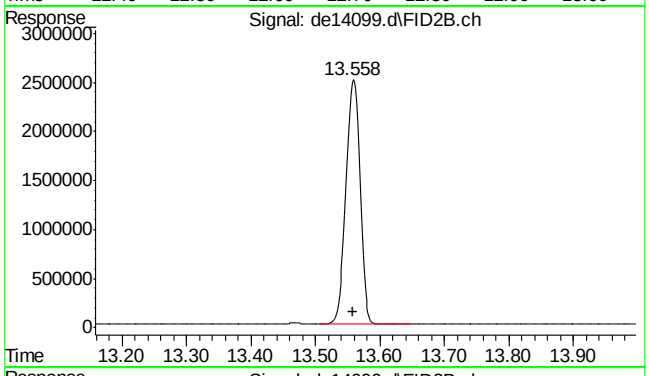
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3792304
Conc: 56.77 µg/ml



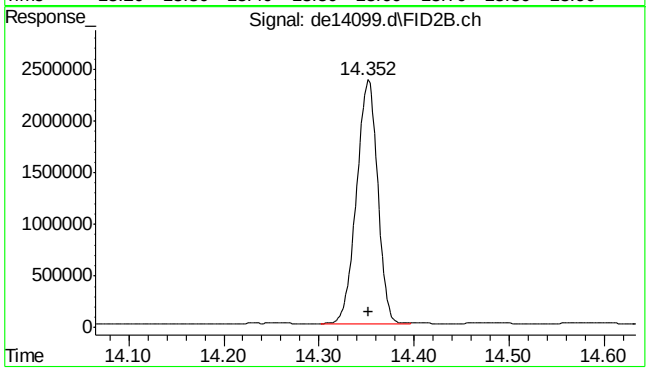
#37 c-24

R.T.: 12.707 min
Delta R.T.: -0.002 min
Response: 3539947
Conc: 52.99 µg/ml



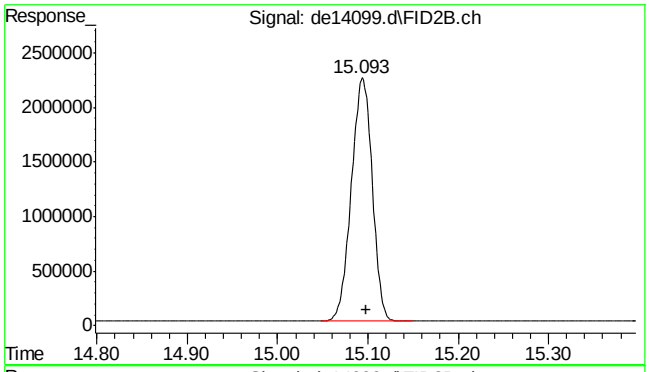
#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3755394
Conc: 56.21 µg/ml



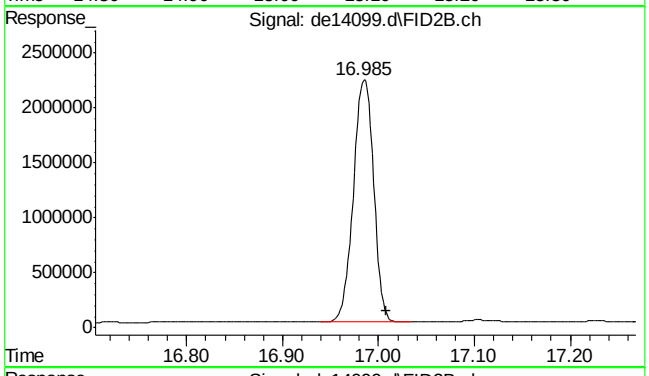
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.000 min
Response: 3621596
Conc: 54.21 µg/ml



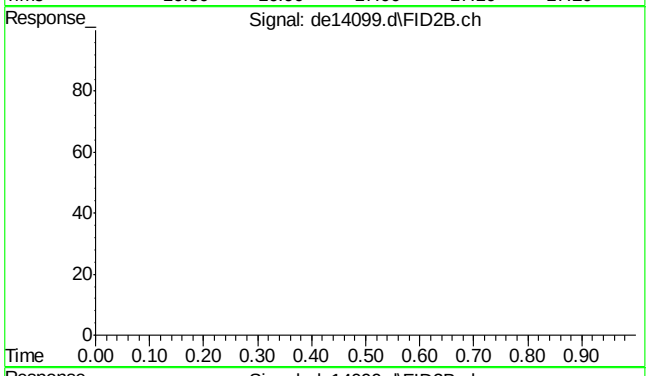
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3611024
Conc: 54.05 µg/ml



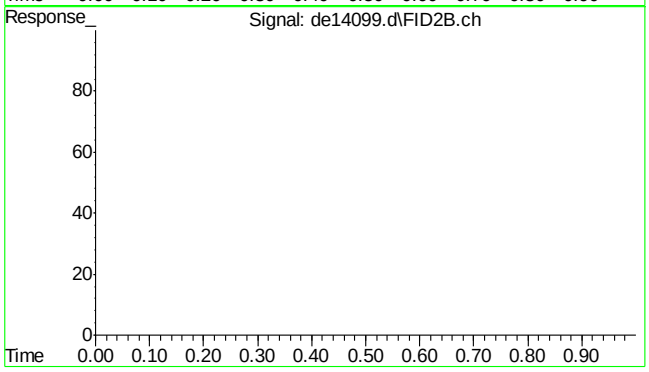
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3235321
Conc: 48.43 µg/ml m



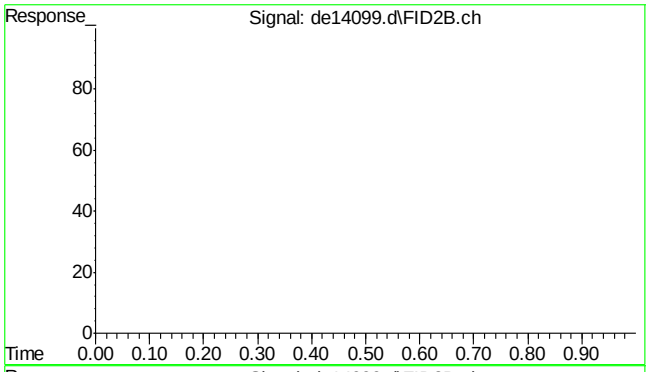
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



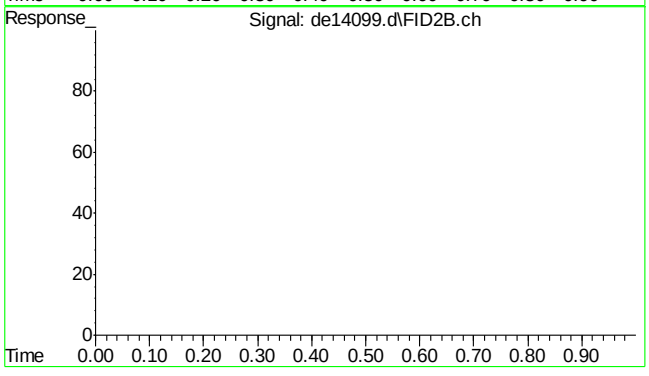
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.5.12

9

SGS ACCUTEST MC45611

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	
TR ~~(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	de13196.d	de13195.d	de13194.d	de13193.d	de13192.d	de13191.d
	200	100	50	20	5	2	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**

Accutest Laboratories of New England, Inc.

Instrument: GC 32 (GCDE)

GC Analysis Log - Extractables

Run Date: 5.3.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
GS18061	Al. CCV	50 ug/ml
↓ 055	Aro CCV	50 ug/ml

Column Information: Front : RTX-5 Alternate:
Rear : RTX-5 Alternate:

Sequence File: DE160502a EPH.S

Quantitation Methods: EPH160502 w.m

Instrument Run Batches: GDE 783

Data Acquisition Methods: EPH DUAL W

Inj. Vol:

Inj. Vol:

Date of ICAL: 2-4-16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE 14002	CCC 735-50	OP47292	MA EPH	W	N/A	OK
1/2	003	OP47292-BS					
3/4	004	-BSD					
5/6	005	-MB					
7/8	006	MC45580-1A					
9/10	007	-2A					
11/12	008	MC45611-2A					
13/14	009	OP47292-MS					
15/16	010	-MSD					
141/142	DE 14011	CCC 735-50					OK

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC011-01
Rev. 03/26/07

Review:

50

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14002.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde783

Name	Amount	Response
c-9	52.47	3875901
c-10	53.24	3933101
c-12	52.91	3908589
c-14	52.59	3885134
c-16	52.15	3852336
c-18	52.13	3851067
c-19	57.32	3829277
c-20	56.30	3761422
c-22	56.07	3745507
c-24	52.54	3509682
c-26	55.90	3734303
c-28	54.01	3608439
c-30	53.98	3606146
c-36	44.99	3005570

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	77687	73872	**5.03**	**In Criteria**
C19-C36	72001	66806	**7.48**	**In Criteria**
c28/c20 Percentage:			95.93	

1-chlorooctadecane	53.85	3046717
naphthalene #2	52.54	4196627
2-methylnaphthalene	52.04	4193018

9.6.2

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SGS ACCUTEST MC45611

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14011.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde783

Name	Amount	Response
c-9	55.79	4121294
c-10	56.50	4173595
c-12	55.92	4130569
c-14	55.05	4066629
c-16	53.92	3983337
c-18	53.34	3940458
c-19	58.50	3907901
c-20	57.19	3820880
c-22	56.65	3784675
c-24	52.67	3518364
c-26	55.72	3722516
c-28	53.64	3583205
c-30	53.23	3555929
c-36	43.97	2937348

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	81386	73872	**9.68**	**In Criteria**
C19-C36	72077	66806	**7.59**	**In Criteria**
c28/c20 Percentage:			93.78	

1-chlorooctadecane	54.58	3087949
naphthalene #2	55.63	4443695
2-methylnaphthalene	54.88	4421416

9.6.2

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BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47292-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.86	50	51.43	
2-methylnaphthalene		13.73	50	54.90	
2-fluorobiphenyl	s	16.40	40	82.01	
acenaphthylene		15.42	50	61.67	
2-bromonaphthalene	s	14.08	40	70.41	
acenaphthene		17.20	50	68.79	
fluorene		17.65	50	70.60	
phenanthrene		18.76	50	75.04	
anthracene		22.96	50	91.83	
o-terphenyl	s	15.88	40	79.39	
fluoranthene		22.62	50	90.47	
pyrene		22.57	50	90.28	
benzo(a)anthracene		24.13	50	96.54	
chrysene		24.08	50	96.30	
benzo(B)fluoranthene		24.44	50	97.75	
benzo(k)fluoranthene		23.82	50	95.28	
benzo(a)pyrene		24.89	50	99.55	
indeno(1,2,3-cd)pyrene		24.75	50	99.00	
dibenzo(ah)anthracene		24.84	50	99.38	
benzo(ghi)perylene		25.12	50	100.49	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		9.54	50	38.17	
c-10		11.93	50	47.70	
c-12		14.47	50	57.89	
c-14		17.24	50	68.97	
c-16		19.49	50	77.97	
c-18		22.13	50	88.52	
c-19		25.64	50	102.56	
c-20		26.29	50	105.16	
1-chlorooctadecane	s	16.26	40	81.31	
c-22		27.16	50	108.65	
c-24		26.92	50	107.68	
c-26		26.36	50	105.45	
c-28		26.07	50	104.27	
c-30		25.59	50	102.34	
c-36		18.58	50	74.32	

Recovery C9-C18
63.20

Recovery C19-C36
101.30

naphthalene #2	0.08	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.62	0.46

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47292-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.81	50	51.23	
2-methylnaphthalene		13.75	50	54.98	
2-fluorobiphenyl	s	17.19	40	85.94	
acenaphthylene		15.22	50	60.88	
2-bromonaphthalene	s	14.82	40	74.09	
acenaphthene		17.05	50	68.21	
fluorene		17.01	50	68.06	
phenanthrene		18.08	50	72.32	
anthracene		22.29	50	89.14	
o-terphenyl	s	15.58	40	77.88	
fluoranthene		22.22	50	88.90	
pyrene		22.04	50	88.18	
benzo(a)anthracene		23.70	50	94.80	
chrysene		23.72	50	94.87	
benzo(B)fluoranthene		23.65	50	94.58	
benzo(k)fluoranthene		24.09	50	96.34	
benzo(a)pyrene		24.67	50	98.68	
indeno(1,2,3-cd)pyrene		24.40	50	97.61	
dibenzo(ah)anthracene		24.57	50	98.29	
benzo(ghi)perylene		24.81	50	99.22	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		8.73	50	34.93	
c-10		11.02	50	44.08	
c-12		13.26	50	53.05	
c-14		15.08	50	60.33	
c-16		16.63	50	66.50	
c-18		19.03	50	76.14	
c-19		22.04	50	88.14	
c-20		22.67	50	90.69	
1-chlorooctadecane	s	14.64	40	73.22	
c-22		23.62	50	94.48	
c-24		23.56	50	94.24	
c-26		23.19	50	92.74	
c-28		23.01	50	92.02	
c-30		22.76	50	91.03	
c-36		17.92	50	71.66	

Recovery C9-C18
55.84

Recovery C19-C36
89.38

naphthalene #2	0.09	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.08	0.67	0.57

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.16.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
6518062	Air CCV	50ug/ml
L 055	Air CCV	50ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160516.S
Quantitation Methods: EPH160516W.M
Instrument Run Batches: GDE 791
Data Acquisition Methods: EPH DUAL W Inj. Vol:
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	DE14088	CC 735-50	N/A	MA EPH	N/A	N/A	ok
1/2	89	OP47424-BS	OP47424		S		
3/4	90	-BSD					
5/6	91	-MB					
7/8	92	MC45611-1					
9/10	93	OP47424-MS					
11/12	94	-MSD					
13/14	95	MC45838-1A	OP47446		W		
15/16	96	-3A					
17/18	97	-4A					
19/20	98	-6					
141/142	DE14099	CC 735-50	N/A		N/A		ok
21/22	DE14100	MC45838-7A	OP47446		W		
141/142	DE14101	CC 735-50	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:

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BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14088.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde791

Name	Amount	Response		Continuing Avg. RF	Initial Avg. RF	%Diff	
c-9	53.33	3939287					
c-10	54.35	4014880					
c-12	53.99	3988540	**C9-C18**	78966	73872	**6.67**	**In Criteria**
c-14	53.45	3948806					
c-16	52.82	3901693					
c-18	52.75	3896485					
c-19	57.79	3860641	**C19-C36**	71957	66806	**7.42**	**In Criteria**
c-20	56.62	3782274					
c-22	56.13	3749797					
c-24	52.33	3496225		c28/c20 Percentage:		94.28	
c-26	55.44	3703960					
c-28	53.38	3566031					
c-30	53.00	3540812					
c-36	46.15	3083146					

1-chlorooctadecane	53.68	3037119
naphthalene #2	53.51	4273714
2-methylnaphthalene	53.01	4271179

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14099.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde791

Name	Amount	Response
c-9	53.96	3985814
c-10	54.88	4054273
c-12	54.56	4030830
c-14	54.12	3998119
c-16	53.43	3946921
c-18	53.30	3937360
c-19	58.38	3899975
c-20	57.25	3824714
c-22	56.77	3792304
c-24	52.99	3539947
c-26	56.21	3755394
c-28	54.21	3621596
c-30	54.05	3611024
c-36	48.43	3235321

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	79844	73872	**7.77**	**In Criteria**
C19-C36	73201	66806	**9.13**	**In Criteria**
c28/c20 Percentage:			94.69	

1-chlorooctadecane	54.57	3087437
naphthalene #2	54.08	4319529
2-methylnaphthalene	53.68	4324803

9.6.3

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SGS ACCUTEST MC45611

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14101.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50,gde791

Name	Amount	Response
c-9	54.40	4018491
c-10	55.00	4063307
c-12	54.76	4045327
c-14	54.61	4033795
c-16	54.38	4017082
c-18	54.59	4032844
c-19	59.91	4002611
c-20	58.78	3926613
c-22	58.45	3904755
c-24	54.56	3644815
c-26	57.89	3867285
c-28	55.68	3720031
c-30	55.45	3704594
c-36	49.55	3310591

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	80703	73872	**8.84**	**In Criteria**
C19-C36	75203	66806	**11.83**	**In Criteria**
c28/c20 Percentage:			94.74	

1-chlorooctadecane	56.11	3174164
naphthalene #2	54.30	4337026
2-methylnaphthalene	53.88	4340889

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47424-bs

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.76	50	63.02	
2-methylnaphthalene		16.75	50	66.99	
2-fluorobiphenyl	s	19.13	40	95.65	
acenaphthylene		17.90	50	71.59	
2-bromonaphthalene	s	18.03	40	90.16	
acenaphthene		19.39	50	77.57	
fluorene		18.91	50	75.62	
phenanthrene		19.31	50	77.26	
anthracene		21.83	50	87.31	
o-terphenyl	s	18.79	40	93.96	
fluoranthene		21.02	50	84.07	
pyrene		20.87	50	83.50	
benzo(a)anthracene		21.52	50	86.07	
chrysene		21.15	50	84.60	
benzo(B)fluoranthene		20.65	50	82.58	
benzo(k)fluoranthene		21.50	50	86.01	
benzo(a)pyrene		21.75	50	87.00	
indeno(1,2,3-cd)pyrene		20.95	50	83.80	
dibenzo(ah)anthracene		21.66	50	86.66	
benzo(ghi)perylene		21.80	50	87.18	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		13.72	50	54.87	
c-10		15.16	50	60.63	
c-12		16.41	50	65.65	
c-14		17.12	50	68.50	
c-16		17.90	50	71.59	
c-18		19.27	50	77.07	
c-19		21.42	50	85.66	
c-20		21.83	50	87.32	
1-chlorooctadecane	s	14.45	40	72.24	
c-22		21.31	50	85.26	
c-24		21.06	50	84.24	
c-26		20.64	50	82.56	
c-28		20.37	50	81.49	
c-30		20.32	50	81.27	
c-36		17.03	50	68.11	

Recovery C9-C18
66.39

Recovery C19-C36
81.99

naphthalene #2	0.12	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.78	0.32

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47424-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.22	50	56.90	
2-methylnaphthalene		14.60	50	58.39	
2-fluorobiphenyl	s	16.66	40	83.28	
acenaphthylene		15.79	50	63.16	
2-bromonaphthalene	s	15.80	40	79.00	
acenaphthene		17.42	50	69.67	
fluorene		16.81	50	67.23	
phenanthrene		17.19	50	68.77	
anthracene		19.79	50	79.15	
o-terphenyl	s	16.59	40	82.97	
fluoranthene		19.20	50	76.82	
pyrene		19.32	50	77.30	
benzo(a)anthracene		19.55	50	78.20	
chrysene		19.75	50	78.99	
benzo(B)fluoranthene		20.27	50	81.08	
benzo(k)fluoranthene		18.65	50	74.59	
benzo(a)pyrene		20.14	50	80.54	
indeno(1,2,3-cd)pyrene		19.79	50	79.17	
dibenzo(ah)anthracene		19.85	50	79.40	
benzo(ghi)perylene		20.22	50	80.89	

Aliphatic Recovery Name	Amount	Spiked	Recovery	Outside Limits?
c-9	14.12	50	56.47	
c-10	15.56	50	62.25	
c-12	16.40	50	65.59	
c-14	17.11	50	68.42	
c-16	17.81	50	71.22	
c-18	19.39	50	77.55	
c-19	21.54	50	86.18	
c-20	21.93	50	87.72	
1-chlorooctadecane s	15.45	40	77.23	
c-22	21.73	50	86.94	
c-24	21.50	50	85.99	
c-26	21.08	50	84.31	
c-28	20.84	50	83.36	
c-30	20.74	50	82.97	
c-36	17.46	50	69.83	

Recovery C9-C18
66.92

Recovery C19-C36
83.41

naphthalene #2	0.08	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.58	0.32

SGS ACCUTEST

Extraction Log - Aqueous

Analysis Method: BHAEPHR

Date Started: _____ Time Started: _____

Date Finished: _____ Time Finished: _____

Extraction Method (Check one): Sep. Funnel SW3510C ✓

Waste Dilution SW3580A _____ MSE EPA 3511 _____

pH paper lot# 216814 Equipment ID Used _____

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7483	2000	20
FMC	P07661	40	1mL

	Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
	OP47292 - MB	N/A	2	N/A	DI Water	1000	2.0	
	BS	↓	↓	↓	↓	↓	↓	
	BSD	↓	↓	↓	↓	↓	↓	
	MC45611-2A MS	14			GW	880		
	MSD	12			↓	880		
1	MC45611-1A	5			GW	880	2.0	
2	-2A	4			↓	880		
3	MC45611-2A	13			↓	880		Sample received unpreserved
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Comments:

Witness Initials:

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

BATCH # OP47292	INITIALS	DATE	TIME
Extracted by:	IC	4/29/16	21:30
Spike Witness:		↓	↓
Concentrated by:	PJS	05/11/16	
Fractionated by:	↓	Volume (ml): 12.5	
Received by:			

Tray # ~~Gt 32~~ E-9

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)			
Waterbath Temp °C	1	75/80	
NEVAP (32-38 °C)	5	40°C	
Chiller			
Balance	N/A	N/A	N/A

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/ ACETONE		Fisher	
1:1 METH CHLOR/ ACETONE		Fisher	
HEXANE Only	162040	Fisher	
ETHER		Fisher	
ACETONITRILE		Fisher	
ACETONE		Fisher	
DCM	162108	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	30625LE	Restek
SILICA GEL		
SODIUM SULFATE	D-018	FISHER
FILTER PAPER	966841	FISHER
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		
Filtered by:	Init./Date:	
HCl	4115020	FISHER

SGS ACCUTEST - MARLBOROUGH
Form: OP018-02
Rev Date: 2/23/16

SGS ACCUTEST

Extraction Log - Soils

Analysis Method: BMAEPHR

Date Started: _____ Time Started: _____

Date Finished: _____ Time Finished: _____

Extraction Method (Check one):
Microwave SW3546 ✓
Waste Dilution SW3580A _____
Equipment ID Used #3
ASE SW 3545A _____
Sonication SW3550C* _____
Soxhlet SW3540C _____
MSE EPA 3570 _____

BATCH # OP47424	INITIALS	DATE	TIME
Extacted by:	NL	5/10/16	22:45
Spike Witness:	FT	5/10/16	23:00
Concentrated by:	PA	5/15/16	
Fractionated by:		Volume (ml):	12.5
Received by:		5/16/16	8:00

Tray # E-011

Spike ID	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	P07653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	P07483	2000	20
JN	P9661	40	1mL

Sample #	Sample Bottle #	ASE Position #	Sample Description	Sample Wet Wt. (gram)	Final Extract Volume (mL)	Comments
OP47424 MB	NA	NA	Na_2SO_4	~~15.67~~	2.0	IW =11.49 NL 5-10
BS	↓	↓	↓	~~15.30~~	↓	=11.22 ↓
BSD	↓	↓	↓	~~15.26~~	↓	=11.28 ↓
MC45611-1 MS	2	↓	SO	11.17	↓	
↓ -1 MSD	↓	↓	↓	11.67	↓	
1 MC45611-1	3	NA	SO	11.04	2.0	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Comments:

Rev 5/13/16

Witness Initials: FT

Supervisor Approval:

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)			
Waterbath Temp °C	0382	75/80	
NEVAP (32-38 °C)	09005	38/40	
Chiller	2	13	
Balance	ACC 11	N/A	N/A
*Sonication Horn	ID	Tuned?	Initials
Misonix XL 2020			

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/		Fisher	
ACETONE		Fisher	
1:1 METH CHLOR/	1602041	Fisher	
ACETONE	158570	Fisher	
HEXANE Only	162040	Fisher	
ETHER		Fisher	
ACETONITRILE		Fisher	
ACETONE		Fisher	
DCM		Fisher	

REAGENT	LOT #	BRAND
SPE MFG	3062895	Restek
SILICA GEL		
SODIUM SULFATE	D-019	FISHER
FILTER PAPER		
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		
FILTERED BY	Init./Date:	

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

SGS ACCUTEST - MARLBOROUGH
Form: OP017-02
Rev Date: 2/23/16

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC45611
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: MC45611-1 **Analyzed:** 09-MAY-16 by EL **Method:** SM 2540G-97 MOD
ClientID: MW-20S(7-8)

Wet Weight (Total)	25.426	g
Tare Weight	19.377	g
Dry Weight (Total)	23.948	g
Solids, Percent	75.6	%