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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: MC45678

Sampling Dates: 04/30/16 - 05/02/16

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: 977

NELAP ACCREDITED TNI LABORATORY

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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SGS Accutest

Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45678

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45678-1	04/30/16	12:00	TT	05/03/16	AQ	Equipment Blank	BPEB-10
MC45678-1A	04/30/16	12:00	TT	05/03/16	AQ	Equipment Blank	BPEB-10
MC45678-2	05/02/16	11:30	TT	05/03/16	AQ	Ground Water	RA-18 GWS
MC45678-2A	05/02/16	11:30	TT	05/03/16	AQ	Ground Water	RA-18 GWS
MC45678-3	05/02/16	13:00	TT	05/03/16	SO	Soil	RA-18(12.5-13.5)

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**	MC45678
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	5/19/2016 10:48:36 A

3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 04/30/2016 and 05/02/2016 and were received at SGS Accutest New England on 05/03/2016 properly preserved, at 5.4 Deg. C and intact. These Samples received a job number of MC45678. 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:** GAB5161

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45678-2MS, MC45678-2MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** GAB5162

- 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:** OP47333

- 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.

Matrix: SO **Batch ID:** OP47484

- 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.

Wet Chemistry By Method SM 2540G-97 MOD

Matrix: SO **Batch ID:** GN53770

- Sample(s) MC45708-75DUP 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(MC45678).

Summary of Hits

Job Number: MC45678
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 04/30/16 thru 05/02/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45678-1	**BPEB-10**					
No hits reported in this sample.						
MC45678-1A	**BPEB-10**					
No hits reported in this sample.						
MC45678-2	**RA-18 GWS**					
No hits reported in this sample.						
MC45678-2A	**RA-18 GWS**					
No hits reported in this sample.						
MC45678-3	**RA-18(12.5-13.5)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-10		
Lab Sample ID:	MC45678-1	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	AB93925.D	1	05/03/16	AF	n/a	n/a	GAB5161
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	85%		70-130%
	2,3,4-Trifluorotoluene	87%		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:	BPEB-10		
Lab Sample ID:	MC45678-1A	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	DE14026.D	1	05/06/16	TA	05/03/16	OP47333	GDE785
Run #2							

	Initial Volume	Final Volume
Run #1	860 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	120	81	ug/l	
	C9-C18 Aliphatics	ND	120	81	ug/l	
	C19-C36 Aliphatics	ND	120	81	ug/l	
	C11-C22 Aromatics	ND	120	81	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%
3386-33-2	1-Chlorooctadecane	67%		40-140%
580-13-2	2-Bromonaphthalene	91%		40-140%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-18 GWS		
Lab Sample ID:	MC45678-2	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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	AB93926.D	1	05/03/16	AF	n/a	n/a	GAB5161
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	85%		70-130%
	2,3,4-Trifluorotoluene	87%		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:	RA-18 GWS		
Lab Sample ID:	MC45678-2A	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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	DE14027.D	1	05/06/16	TA	05/03/16	OP47333	GDE785
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	69%		40-140%
321-60-8	2-Fluorobiphenyl	83%		40-140%
3386-33-2	1-Chlorooctadecane	46%		40-140%
580-13-2	2-Bromonaphthalene	83%		40-140%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-18(12.5-13.5)		
Lab Sample ID:	MC45678-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	76.8
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB93934.D	1	05/04/16	AF	n/a	n/a	GAB5162
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	15.3 g	16.0 ml	100 ul
Run #2			

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	8300	4200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	8300	4200	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	8300	4200	ug/kg	
	C5- C8 Aliphatics	ND	8300	4200	ug/kg	
	C9- C12 Aliphatics	ND	8300	4200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	100%		70-130%
	2,3,4-Trifluorotoluene	102%		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:	RA-18(12.5-13.5)		
Lab Sample ID:	MC45678-3	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	76.8
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14118.D	1	05/18/16	TA	05/15/16	OP47484	GDE792
Run #2							

	Initial Weight	Final Volume
Run #1	11.3 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	23000	19000	ug/kg	
	C9-C18 Aliphatics	ND	12000	9300	ug/kg	
	C19-C36 Aliphatics	ND	12000	9300	ug/kg	
	C11-C22 Aromatics	ND	23000	19000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%
321-60-8	2-Fluorobiphenyl	87%		40-140%
580-13-2	2-Bromonaphthalene	80%		40-140%
3386-33-2	1-Chlorooctadecane	67%		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 # 80996056974 9

Bottle Order Control #

SGS Accutest Job # Get from NJ MC45678

Client / Reporting Information

Company Name: Anderson Mulholland Assoc Inc.
Street Address: 2700 Westchester
City State Zip: Purchase NY
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	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	VMAVPH	BMAEPHR	LAB USE ONLY
1	BPEB-10		4/30/16	1200	TT	EB	5	5									X	X	
2	RA-18 GWS		5/2/16	1130	TT	GW	5	5									X	X	
3	RA-18 (12.5-13.5)		5/2/16	1300	TT	SO	~~5~~ 4					2			3		X	X	
																			16D
																			7A

INITIAL ASESSMENT Gm

LABEL VERIFICATION B/L

Turnaround Time (Business days)

- [x] Std. 10 Business Days For soil samples
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [x] 1 Day *EMERGENCY* For aqueous samples

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] 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

RUSH!

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	[signature]	5/2/16 1500	Fed EX	FX	5-3-16 1000	[signature]
2	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3						
4	Relinquished by:	Date Time:	Received By:	Custody Seal # 612	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 5.4 C
5						

MC45678: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC45678 **Client:** ANDERSON **Project:** BMS

Date / Time Received: 5/3/2016 10:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8099 6056 9749 0402

Cooler Temps (Initial/Adjusted): #1: (5.4/5.4);

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

MC45678: Chain of Custody
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Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45678

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45678-1	Collected: 30-APR-16 12:00 By: TT		Received: 03-MAY-16 By: TF			
BPEB-10						
MC45678-1	MADEP VPH REV 1.1	03-MAY-16 16:05	AF			VMAVPHR
MC45678-2	Collected: 02-MAY-16 11:30 By: TT		Received: 03-MAY-16 By: TF			
RA-18 GWS						
MC45678-2	MADEP VPH REV 1.1	03-MAY-16 16:42	AF			VMAVPHR
MC45678-3	Collected: 02-MAY-16 13:00 By: TT		Received: 03-MAY-16 By: TF			
RA-18(12.5-13.5)						
MC45678-3	MADEP VPH REV 1.1	04-MAY-16 10:36	AF			VMAVPHR
MC45678-3	SM 2540G-97 MOD	09-MAY-16	EL			%SOL
MC45678-3	MADEP EPH REV 1.1	18-MAY-16 15:45	TA	15-MAY-16	PA	BMAEPHR
MC45678-1A	Collected: 30-APR-16 12:00 By: TT		Received: 03-MAY-16 By: TF			
BPEB-10						
MC45678-1A	MADEP EPH REV 1.1	06-MAY-16 10:52	TA	03-MAY-16	PA	BMAEPHR
MC45678-2A	Collected: 02-MAY-16 11:30 By: TT		Received: 03-MAY-16 By: TF			
RA-18 GWS						
MC45678-2A	MADEP EPH REV 1.1	06-MAY-16 11:20	TA	03-MAY-16	PA	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 05/03/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45678-1.2	Walk In Ref #22	Ilir Capi	05/03/16 17:53	Retrieve from Storage
MC45678-1.2	Ilir Capi		05/03/16 23:31	Depleted
MC45678-1.5	VOC Ref #2	Anthony Franciosa	05/03/16 13:05	Retrieve from Storage
MC45678-1.5	Anthony Franciosa	GCAB	05/03/16 13:05	Load on Instrument
MC45678-1.5	GCAB	Anthony Franciosa	05/04/16 07:25	Unload from Instrument
MC45678-1.5	Anthony Franciosa	VOC Ref #2	05/04/16 07:25	Return to Storage
MC45678-2.1	Walk In Ref #22	Ilir Capi	05/03/16 17:53	Retrieve from Storage
MC45678-2.1	Ilir Capi		05/03/16 23:31	Depleted
MC45678-2.4	VOC Ref #2	Anthony Franciosa	05/03/16 13:05	Retrieve from Storage
MC45678-2.4	Anthony Franciosa	GCAB	05/03/16 13:05	Load on Instrument
MC45678-2.4	GCAB	Anthony Franciosa	05/04/16 07:25	Unload from Instrument
MC45678-2.4	Anthony Franciosa	VOC Ref #2	05/04/16 07:25	Return to Storage
MC45678-2.5	VOC Ref #2	Anthony Franciosa	05/03/16 13:05	Retrieve from Storage
MC45678-2.5	Anthony Franciosa	GCAB	05/03/16 13:05	Load on Instrument
MC45678-2.5	GCAB	Anthony Franciosa	05/04/16 07:25	Unload from Instrument
MC45678-2.5	Anthony Franciosa	VOC Ref #2	05/04/16 07:25	Return to Storage
MC45678-3.1	Walk In Ref #5	Forrest Thompson	05/15/16 11:29	Retrieve from Storage
MC45678-3.1	Forrest Thompson	Walk In Ref #5	05/15/16 21:26	Return to Storage
MC45678-3.2	Walk In Ref #5	Eriola Londo	05/09/16 11:57	Retrieve from Storage
MC45678-3.2	Eriola Londo	Walk In Ref #5	05/10/16 07:49	Return to Storage
MC45678-3.3	VOC Ref #10	Anthony Franciosa	05/04/16 07:27	Retrieve from Storage
MC45678-3.3	Anthony Franciosa	GCAB	05/04/16 07:27	Load on Instrument
MC45678-3.3	GCAB	Anthony Franciosa	05/04/16 08:35	Unload from Instrument
MC45678-3.3	Anthony Franciosa	VOC Ref #10	05/04/16 08:35	Return to Storage

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: MC45678
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
GAB5161-MB	AB93922.D	1	05/03/16	AF	n/a	n/a	GAB5161

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

MC45678-1, MC45678-2

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	85%	70-130%
	2,3,4-Trifluorotoluene	86%	70-130%

Method Blank Summary

Job Number: MC45678
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
GAB5162-MB	AB93931.D	1	05/04/16	AF	n/a	n/a	GAB5162

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

MC45678-3

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	96%	70-130%
	2,3,4-Trifluorotoluene	97%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45678
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
GAB5161-BSP	AB93923.D	1	05/03/16	AF	n/a	n/a	GAB5161
GAB5161-BSD	AB93924.D	1	05/03/16	AF	n/a	n/a	GAB5161

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

MC45678-1, MC45678-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	138	92	139	93	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	131	87	131	87	0	70-130/25
	C9- C10 Aromatics (Unadj.)	50	47.0	94	46.8	94	0	70-130/25

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

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45678
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
GAB5162-BSP	AB93932.D	1	05/04/16	AF	n/a	n/a	GAB5162
GAB5162-BSD	AB93933.D	1	05/04/16	AF	n/a	n/a	GAB5162

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

MC45678-3

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	7820	104	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	7500	7610	101	7600	101	0	70-130/25
	C9- C10 Aromatics (Unadj.)	2500	2640	106	2620	105	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	104%	102%	70-130%
	2,3,4-Trifluorotoluene	105%	105%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45678
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
MC45678-2MS	AB93927.D	1	05/03/16	AF	n/a	n/a	GAB5161
MC45678-2MSD	AB93928.D	1	05/03/16	AF	n/a	n/a	GAB5161
MC45678-2	AB93926.D	1	05/03/16	AF	n/a	n/a	GAB5161

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

MC45678-1, MC45678-2

CAS No.	Compound	MC45678-2 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	314	90	350	316	91	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		400	458	114	400	460	115	0	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	162	108	150	162	108	0	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45678-2	Limits
	2,3,4-Trifluorotoluene	92%	93%	85%	70-130%
	2,3,4-Trifluorotoluene	94%	94%	87%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45678
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]
MC45678-1	AB93925.D	85	87
MC45678-2	AB93926.D	85	87
GAB5161-BSD	AB93924.D	92	94
GAB5161-BSP	AB93923.D	92	94
GAB5161-MB	AB93922.D	85	86
MC45678-2MS	AB93927.D	92	94
MC45678-2MSD	AB93928.D	93	94

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: MC45678
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]
MC45678-3	AB93934.D	100	102
GAB5162-BSD	AB93933.D	102	105
GAB5162-BSP	AB93932.D	104	105
GAB5162-MB	AB93931.D	96	97

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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GAB5161-CC5058	**Injection Date:**	05/03/16
Lab File ID:	AB93921.D	**Injection Time:**	13:34
Instrument ID:	GCAB	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	20.19	20.20

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GAB5161-MB	AB93922.D	05/03/16	14:12	20.20	20.20
GAB5161-BSP	AB93923.D	05/03/16	14:49	20.20	20.20
GAB5161-BSD	AB93924.D	05/03/16	15:27	20.19	20.20
MC45678-1	AB93925.D	05/03/16	16:05	20.20	20.20
MC45678-2	AB93926.D	05/03/16	16:42	20.20	20.20
MC45678-2MS	AB93927.D	05/03/16	17:20	20.20	20.20
MC45678-2MSD	AB93928.D	05/03/16	17:58	20.20	20.20

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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GAB5162-CC5058	**Injection Date:**	05/04/16
Lab File ID:	AB93930.D	**Injection Time:**	08:05
Instrument ID:	GCAB	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	20.19	20.20

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GAB5162-MB	AB93931.D	05/04/16	08:43	20.19	20.20
GAB5162-BSP	AB93932.D	05/04/16	09:20	20.19	20.20
GAB5162-BSD	AB93933.D	05/04/16	09:58	20.19	20.20
MC45678-3	AB93934.D	05/04/16	10:36	20.20	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: MC45678
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: MC45678
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: MC45678
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: MC45678
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: MC45678 **Sample:** GAB5161-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93921.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93921.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 13:34:16
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26206,gab5161,,,,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 03 14:18:12 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	316.509 E3	21.2	79	0.00
2	h	rt7/10	401.509	372.187 E3	7.3	93	0.00
3	h	rt10/13	401.509	435.103 E3	-8.4	108	0.00
4	s	fluorobenzene	440.139	426.717 E3	3.0	96	-0.01
6	s	2,3,4-trifluorotoluene	409.952	382.624 E3	6.7	94	-0.01
8	h	rt20/25	626.504	517.227 E3	17.4	83	0.00
10	h	decane	626.504	514.421 E3	17.9	82	0.00
11	h	butylcyclohexane	626.504	569.876 E3	9.0	91	0.00
Signal #2							
14		mtbe #2	504.452	513.035 E3	-1.7	99	-0.01
15		benzene #2	1.302	1.276 E6	2.0	91	-0.01
16	s	fluorobenzene #2	842.245	828.609 E3	1.6	92	-0.01
17		toluene #2	1143.283	1093.557 E3	4.3	90	-0.01
18	s	2,3,4-trifluorotoluene #2	466.878	429.415 E3	8.0	91	-0.01
19		ethylbenzene #2	925.851	896.750 E3	3.1	90	0.00
20		m,p-xylene #2	1060.718	1078.476 E3	-1.7	89	0.00
21		o-xylene #2	934.140	902.217 E3	3.4	89	0.00
22	t	1,3,5-trimethylbenzene #2	1306.512	1171.919 E3	10.3	80	0.00
23		1,2,4-trimethylbenzene #2	957.036	901.865 E3	5.8	86	0.00
24		naphthalene #2	722.911	640.923 E3	11.3	85	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	903.643 E3	5.7	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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5161-CC5058
Lab FileID: AB93921.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

ab160503vph.M Wed May 04 06:59:55 2016
```

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GAB5161-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93929.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93929.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 18:36:38
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26206,gab5161,,,,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 04 06:53:10 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	314.795 E3	21.6	78	0.00
2	h	rt7/10	401.509	373.989 E3	6.9	93	0.00
3	h	rt10/13	401.509	436.830 E3	-8.8	109	0.00
4	s	fluorobenzene	440.139	432.083 E3	1.8	98	0.00
6	s	2,3,4-trifluorotoluene	409.952	389.493 E3	5.0	96	0.00
8	h	rt20/25	626.504	543.710 E3	13.2	87	0.00
10	h	decane	626.504	545.814 E3	12.9	87	0.00
11	h	butylcyclohexane	626.504	597.083 E3	4.7	95	0.00
Signal #2							
14		mtbe #2	504.452	509.371 E3	-1.0	99	0.00
15		benzene #2	1.302	1.279 E6	1.8	91	0.00
16	s	fluorobenzene #2	842.245	831.112 E3	1.3	93	0.00
17		toluene #2	1143.283	1104.321 E3	3.4	91	0.00
18	s	2,3,4-trifluorotoluene #2	466.878	436.543 E3	6.5	93	0.00
19		ethylbenzene #2	925.851	900.951 E3	2.7	90	0.00
20		m,p-xylene #2	1060.718	1080.256 E3	-1.8	89	0.00
21		o-xylene #2	934.140	898.769 E3	3.8	89	0.00
22	t	1,3,5-trimethylbenzene #2	1306.512	1177.417 E3	9.9	81	0.00
23		1,2,4-trimethylbenzene #2	957.036	905.749 E3	5.4	87	0.00
24		naphthalene #2	722.911	645.508 E3	10.7	86	0.00
25	h	c9-c10 arom as 1,2,4-tmb	958.045	908.216 E3	5.2	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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5161-CC5058
Lab FileID: AB93929.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

ab160503vph.M Wed May 04 06:59:57 2016
```

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GAB5162-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93930.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93930.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 08:05:18
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26207,gab5162,,,,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 04 08:37:04 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	305.616 E3	23.9	76	0.00
2 h	rt7/10	401.509	365.617 E3	8.9	91	0.00
3 h	rt10/13	401.509	423.691 E3	-5.5	106	0.00
4 s	fluorobenzene	440.139	424.727 E3	3.5	96	-0.01
6 s	2,3,4-trifluorotoluene	409.952	380.060 E3	7.3	94	0.00
8 h	rt20/25	626.504	525.238 E3	16.2	84	0.00
10 h	decane	626.504	527.407 E3	15.8	84	0.00
11 h	butylcyclohexane	626.504	578.687 E3	7.6	92	0.00
Signal #2						
14	mtbe #2	504.452	500.404 E3	0.8	97	0.00
15	benzene #2	1.302	1.258 E6	3.4	89	-0.01
16 s	fluorobenzene #2	842.245	819.026 E3	2.8	91	-0.01
17	toluene #2	1143.283	1087.875 E3	4.8	90	-0.01
18 s	2,3,4-trifluorotoluene #2	466.878	424.339 E3	9.1	90	0.00
19	ethylbenzene #2	925.851	886.367 E3	4.3	89	0.00
20	m,p-xylene #2	1060.718	1062.593 E3	-0.2	88	0.00
21	o-xylene #2	934.140	888.490 E3	4.9	88	0.00
22 t	1,3,5-trimethylbenzene #2	1306.512	1156.924 E3	11.4	79	0.00
23	1,2,4-trimethylbenzene #2	957.036	888.314 E3	7.2	85	0.00
24	naphthalene #2	722.911	634.251 E3	12.3	84	0.00
25 h	c9-c10 arom as 1,2,4-tmb	958.045	887.290 E3	7.4	85	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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5162-CC5058
Lab FileID: AB93930.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

ab160504vph.M Wed May 04 14:50:04 2016
```

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GAB5162-CC5058
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB93935.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93935.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 11:14:36
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26207,gab5162,,,,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 04 11:46:16 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	307.354 E3	23.5	77	0.00
2 h	rt7/10	401.509	366.809 E3	8.6	91	0.00
3 h	rt10/13	401.509	432.141 E3	-7.6	108	0.00
4 s	fluorobenzene	440.139	427.324 E3	2.9	97	-0.01
6 s	2,3,4-trifluorotoluene	409.952	384.696 E3	6.2	95	-0.01
8 h	rt20/25	626.504	536.750 E3	14.3	86	0.00
10 h	decane	626.504	542.491 E3	13.4	87	0.00
11 h	butylcyclohexane	626.504	587.761 E3	6.2	94	0.00
Signal #2						
14	mtbe #2	504.452	501.525 E3	0.6	97	-0.01
15	benzene #2	1.302	1.257 E6	3.5	89	-0.01
16 s	fluorobenzene #2	842.245	819.944 E3	2.6	91	-0.01
17	toluene #2	1143.283	1084.416 E3	5.1	90	-0.01
18 s	2,3,4-trifluorotoluene #2	466.878	427.816 E3	8.4	91	-0.01
19	ethylbenzene #2	925.851	888.574 E3	4.0	89	0.00
20	m,p-xylene #2	1060.718	1064.150 E3	-0.3	88	0.00
21	o-xylene #2	934.140	886.279 E3	5.1	87	0.00
22 t	1,3,5-trimethylbenzene #2	1306.512	1155.085 E3	11.6	79	0.00
23	1,2,4-trimethylbenzene #2	957.036	888.745 E3	7.1	85	0.00
24	naphthalene #2	722.911	626.072 E3	13.4	83	0.00
25 h	c9-c10 arom as 1,2,4-tmb	958.045	889.556 E3	7.1	85	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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GAB5162-CC5058
Lab FileID: AB93935.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

ab160504vph.M Wed May 04 14:50:06 2016
```

GC Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:56:25 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.145	19587780	44.504	ppb	
Spiked Amount 50.000		Recovery =	89.01%		
6) s 2,3,4-trifluorotoluene	20.201	17771094	43.349	ppb	
Spiked Amount 50.000		Recovery =	86.70%		
16) s fluorobenzene #2	15.143	37348514	44.344	ppb	
Spiked Amount 50.000		Recovery =	88.69%		
18) s 2,3,4-trifluorotoluen...	20.199	19746398	42.295	ppb	
Spiked Amount 50.000		Recovery =	84.59%		
Target Compounds					
1) h rt5.5-7	6.420	436263	1.087	ppb	m
2) h rt7/10	8.720	425422	1.060	ppb	m
3) h rt10/13	13.870	3418414	8.514	ppb	
8) h rt20/25	21.870	13742498	21.935	ppb	
24) naphthalene #2	28.060	659002	0.912	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	23583212	24.616	ppb	m

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

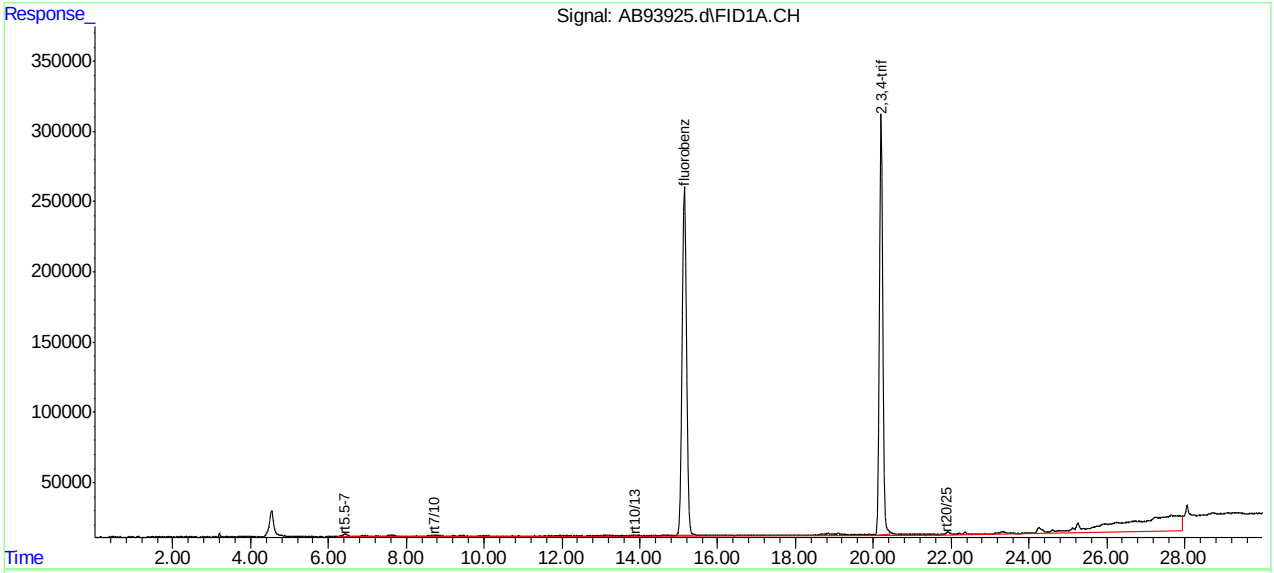
SGS ACCUTEST MC45678

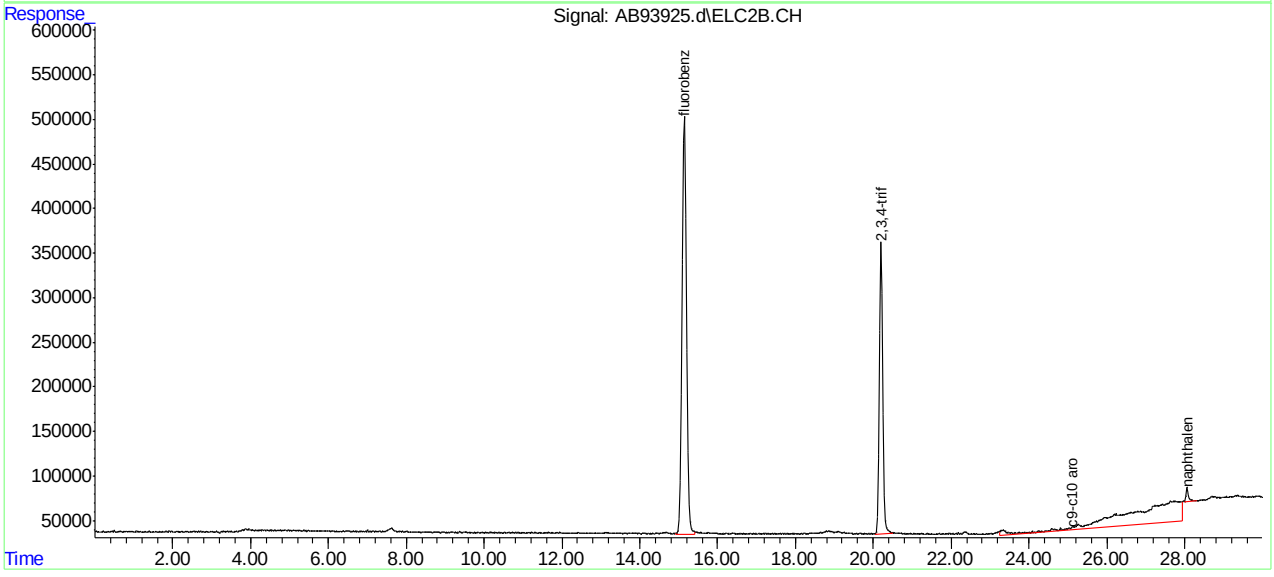
Quantitation Report (QT Reviewed)

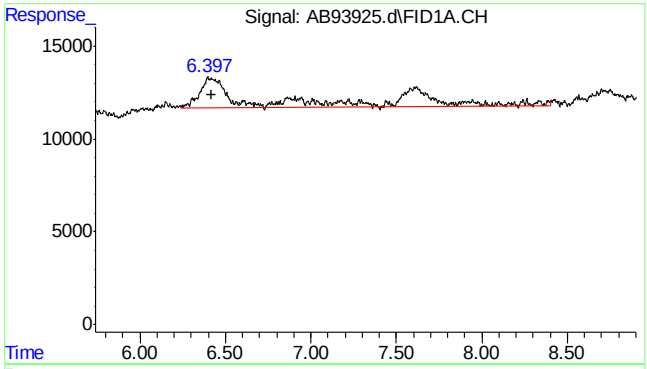
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 06:56:25 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 :

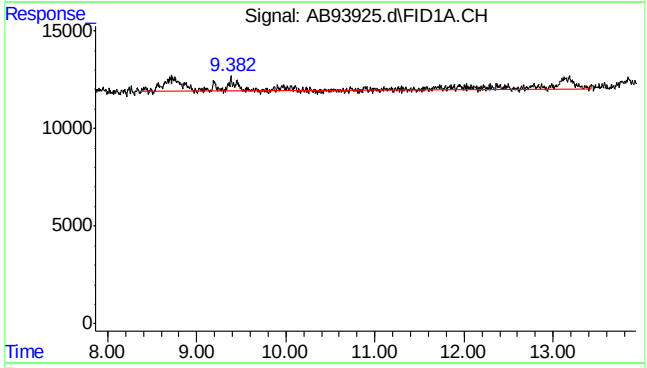






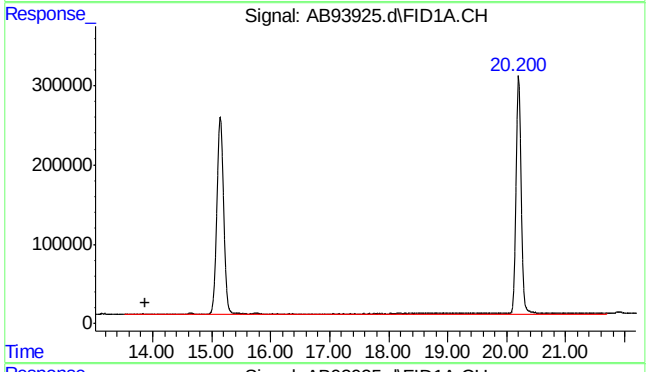
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 436263
Conc: 1.09 ppb m



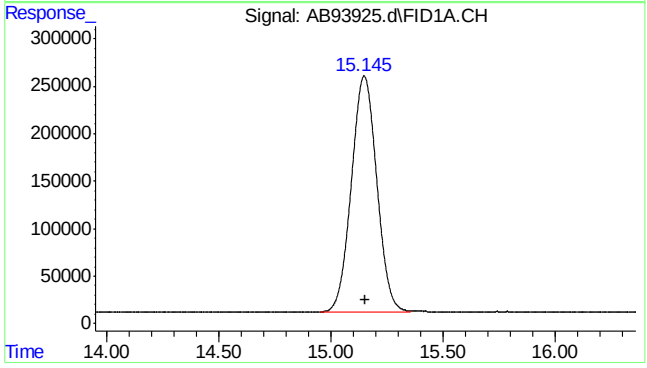
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 425422
Conc: 1.06 ppb m



#3 rt10/13

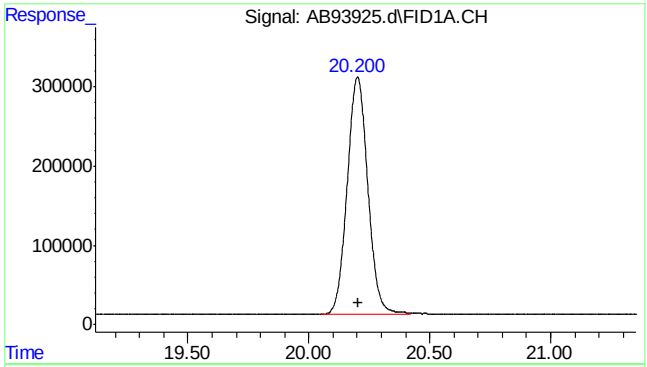
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3418414
Conc: 8.51 ppb



#4 fluorobenzene

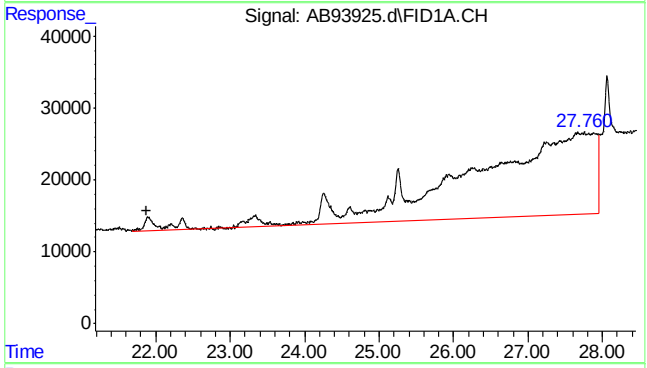
R.T.: 15.145 min
Delta R.T.: -0.006 min
Response: 19587780
Conc: 44.50 ppb

SGS ACCUTEST MC45678



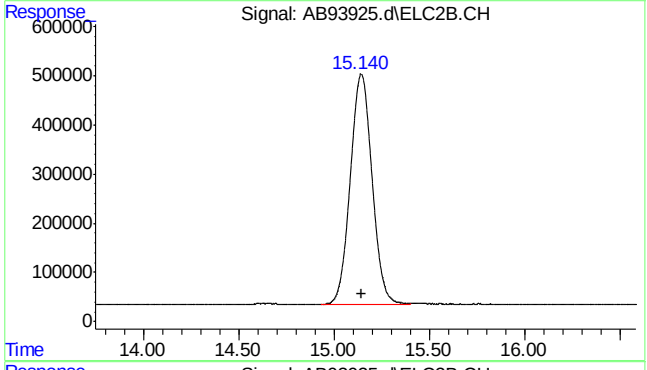
#6 2,3,4-trifluorotoluene

R.T.: 20.201 min
Delta R.T.: -0.004 min
Response: 17771094
Conc: 43.35 ppb



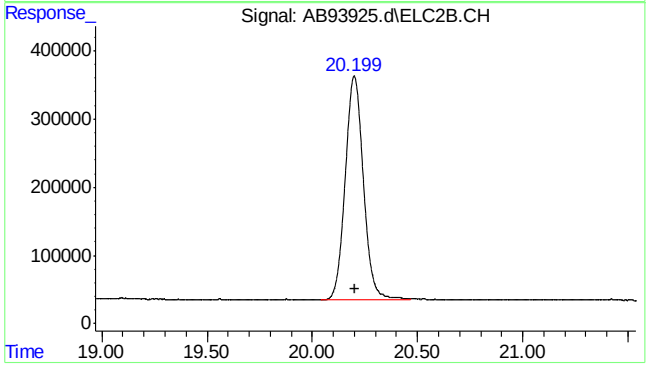
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 13742498
Conc: 21.94 ppb



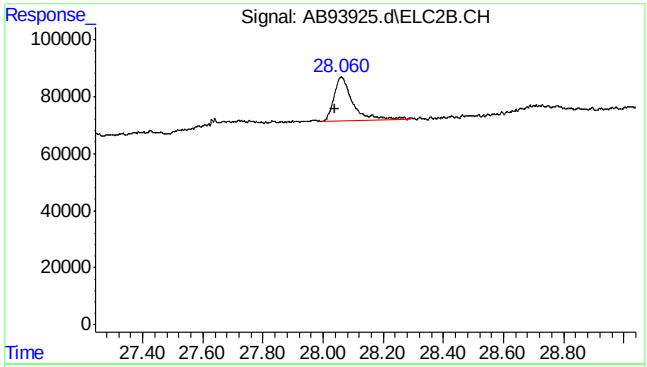
#16 fluorobenzene #2

R.T.: 15.143 min
Delta R.T.: -0.005 min
Response: 37348514
Conc: 44.34 ppb



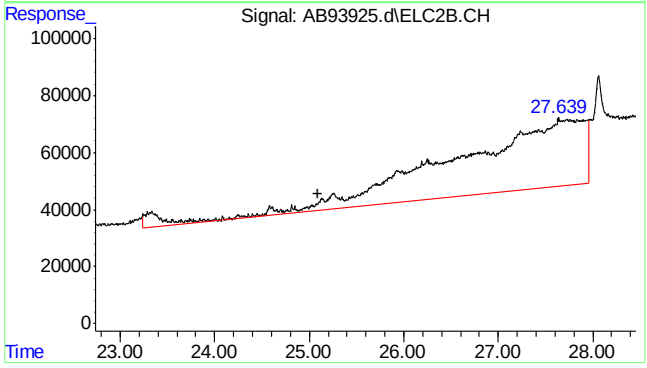
#18 2,3,4-trifluorotoluene #2

R.T.: 20.199 min
Delta R.T.: -0.004 min
Response: 19746398
Conc: 42.29 ppb



#24 naphthalene #2

```
      R.T.:   28.060 min
Delta R.T.:    0.022 min
  Response:    659002
      Conc:   0.91 ppb m
```



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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  23583212
      Conc:  24.62 ppb m
```

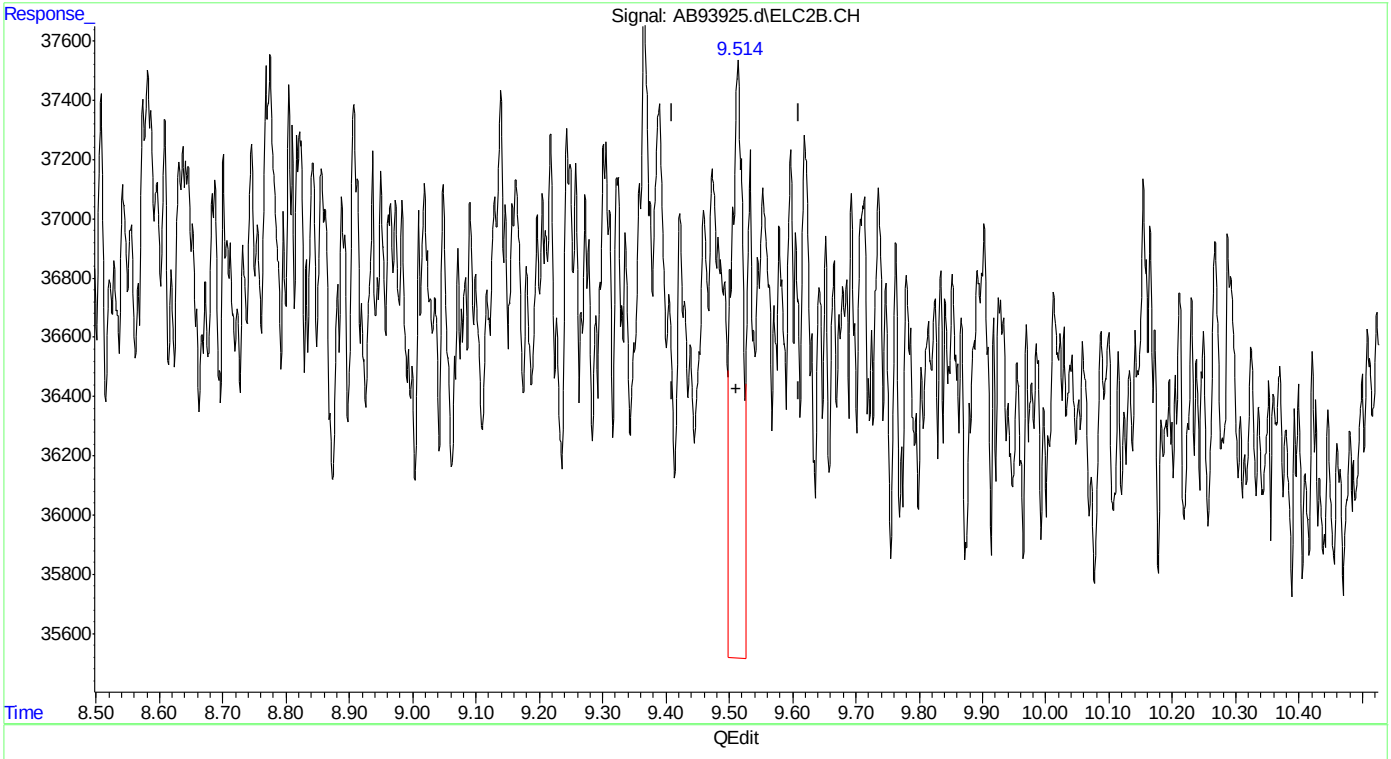

SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
9.514min 0.051 ppb
response 25557

(+) = Expected Retention Time

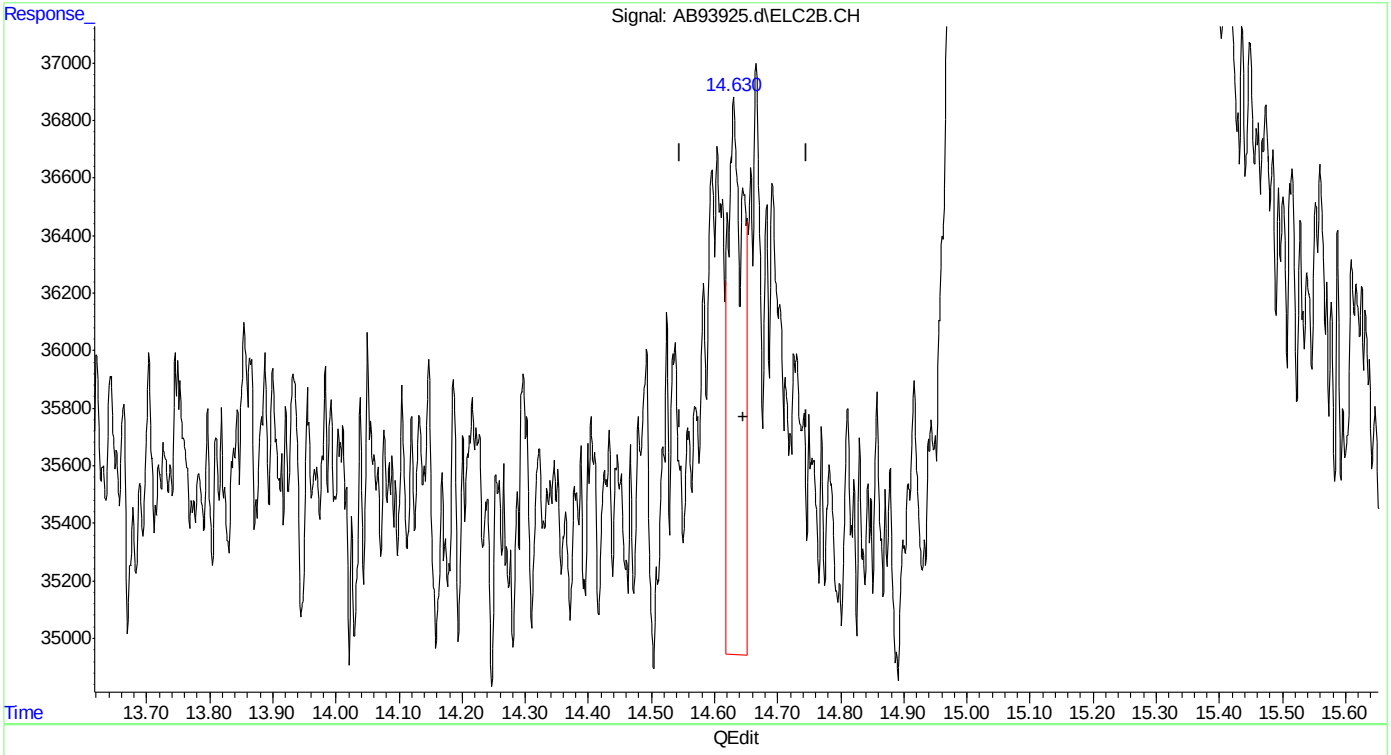
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
14.631min 0.025 ppb
response 32488

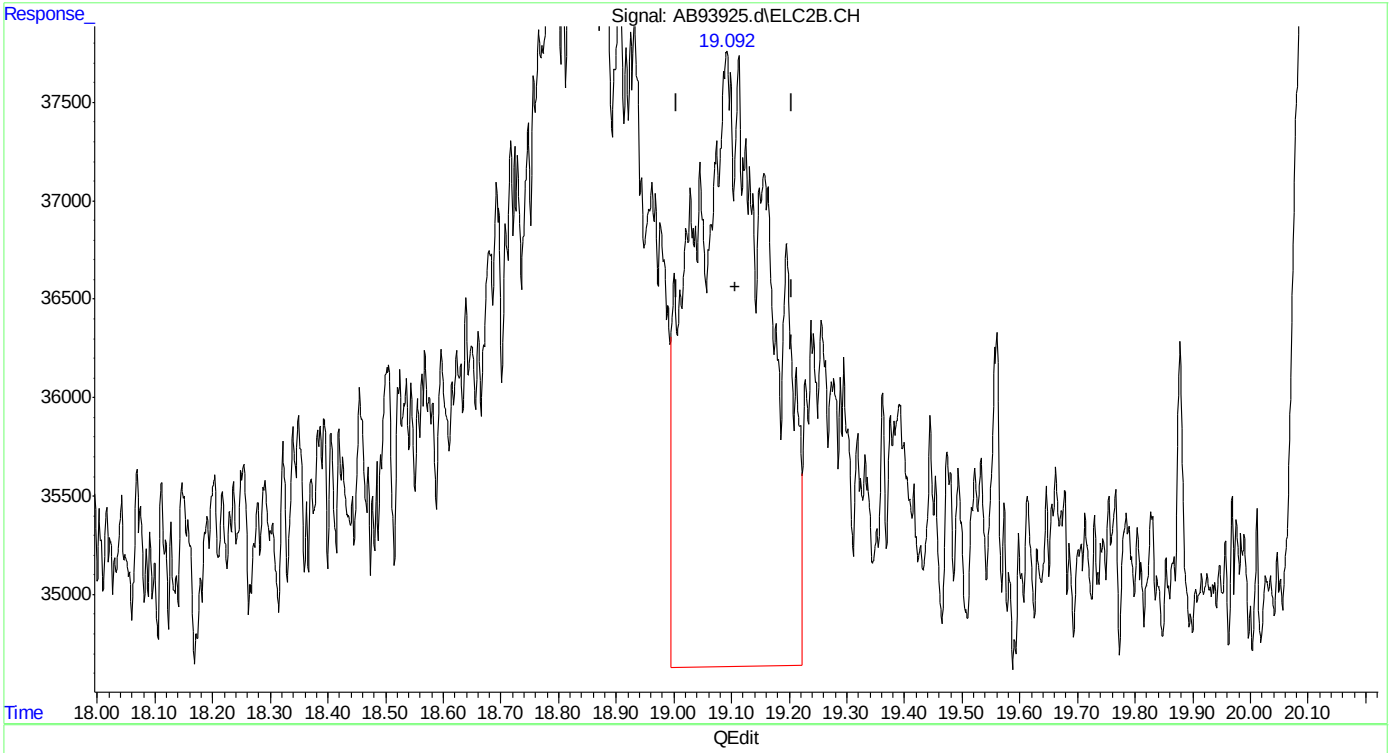
(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:55:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 0.258 ppb
response 295526

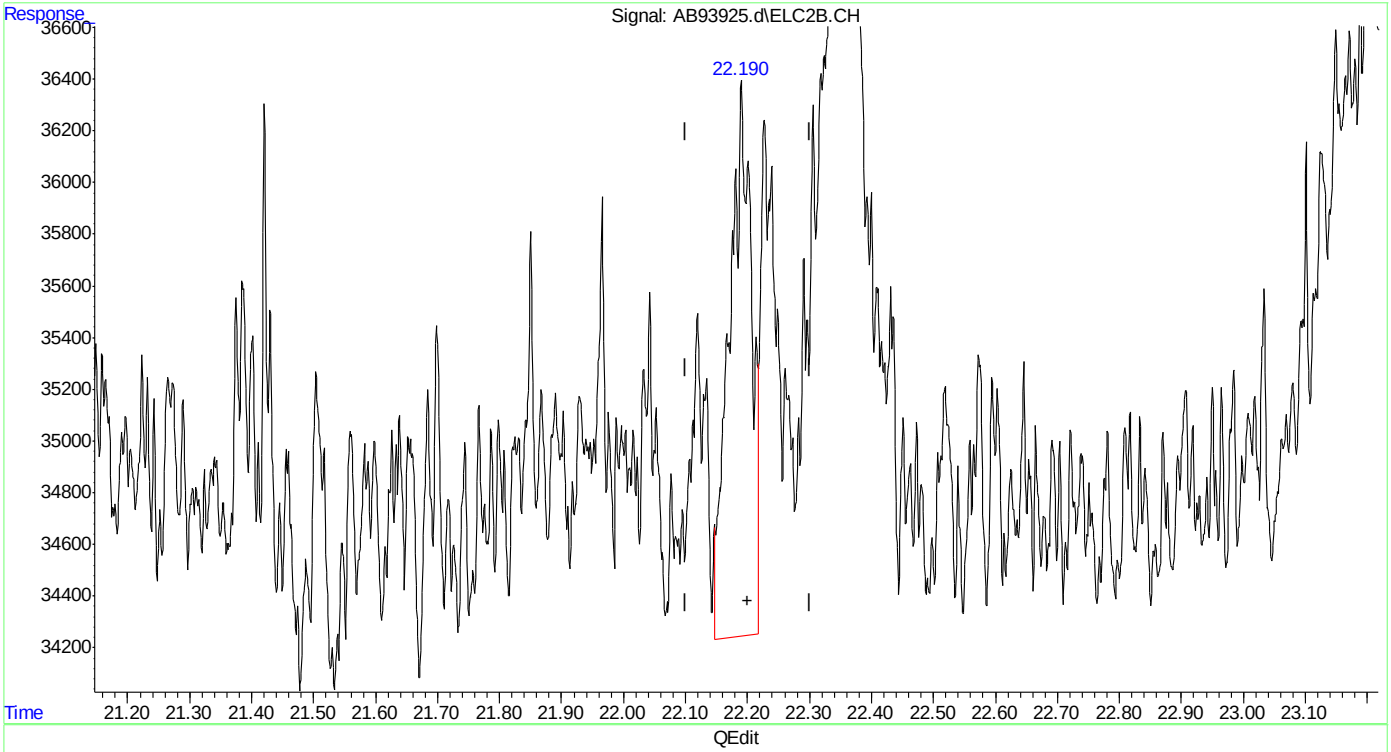
(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:55:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
22.192min 0.058 ppb
response 53696

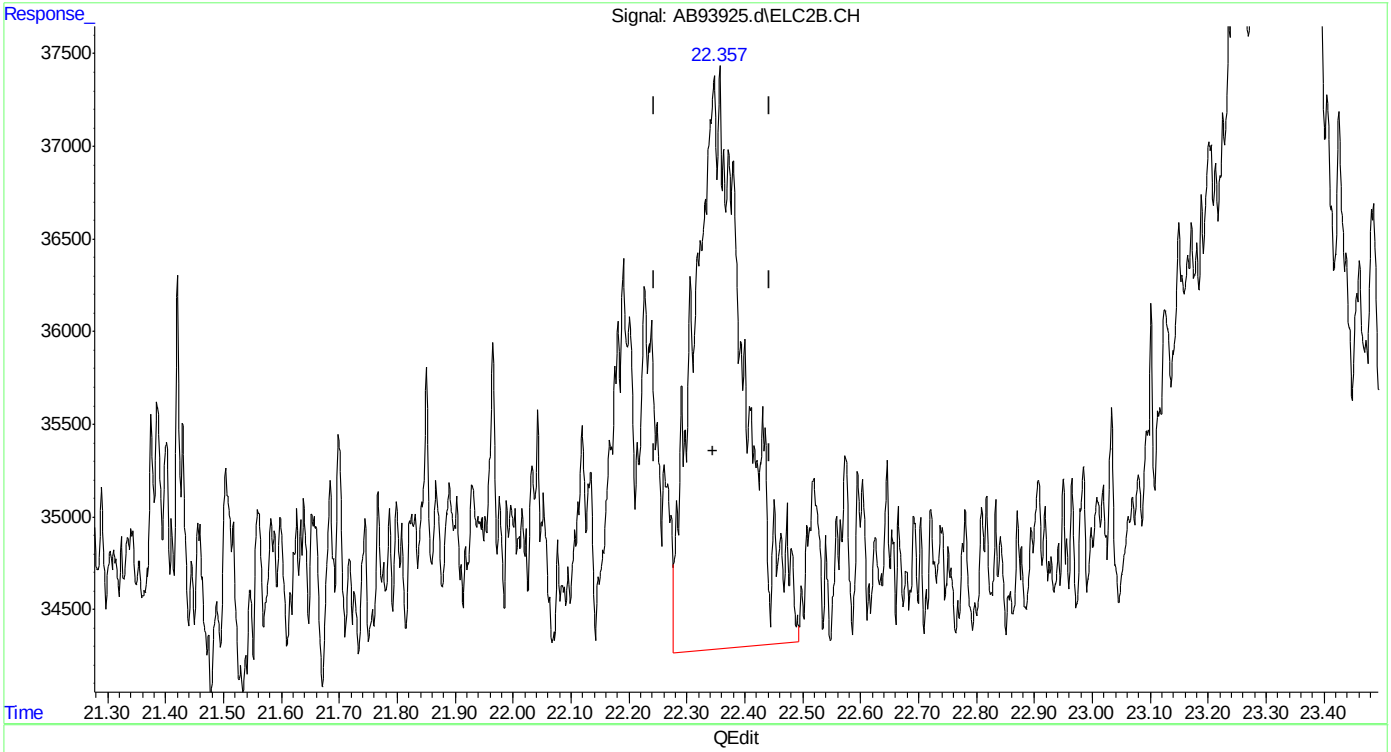
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
22.348min 0.177 ppb
response 188077

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
25.134min 0.138 ppb
response 132241

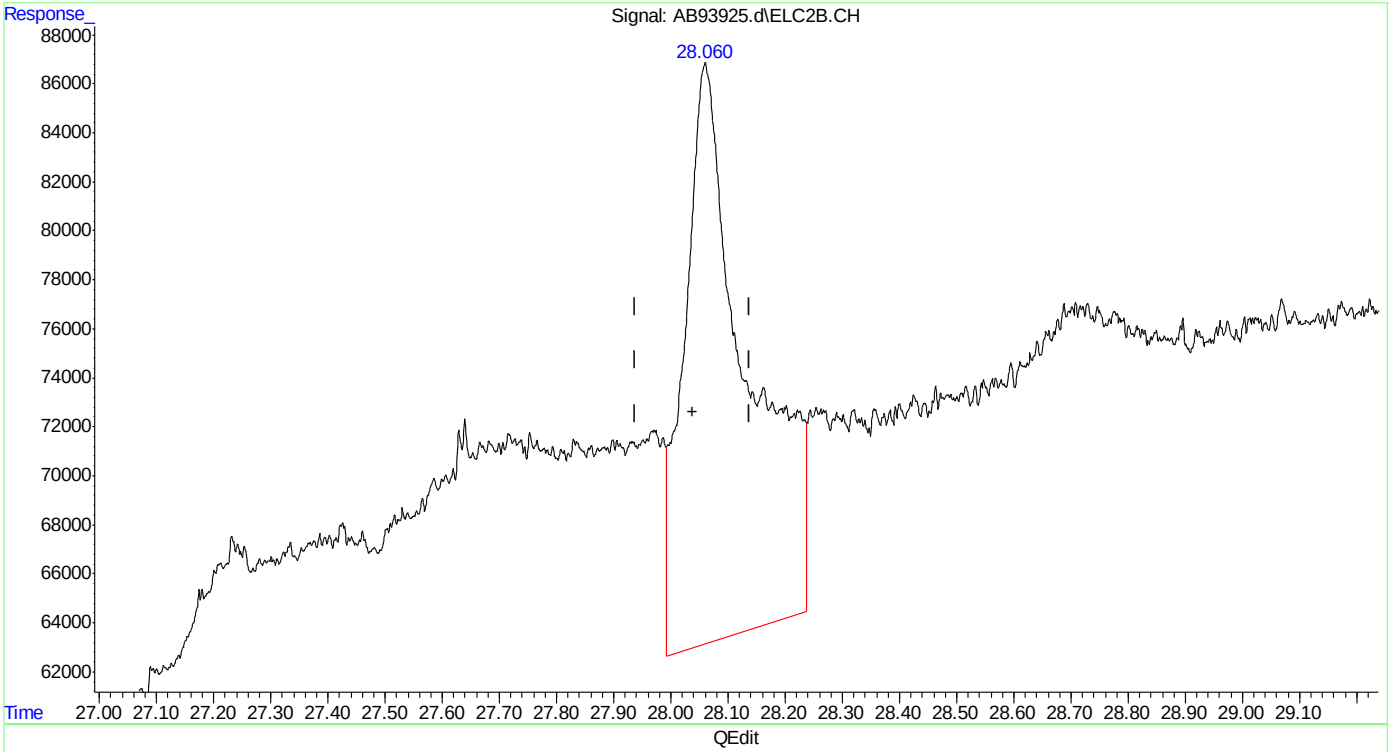
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:05:06
Operator : tonyf
Sample : mc45678-1,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
28.060min 2.543 ppb
response 1838017

(+) = Expected Retention Time

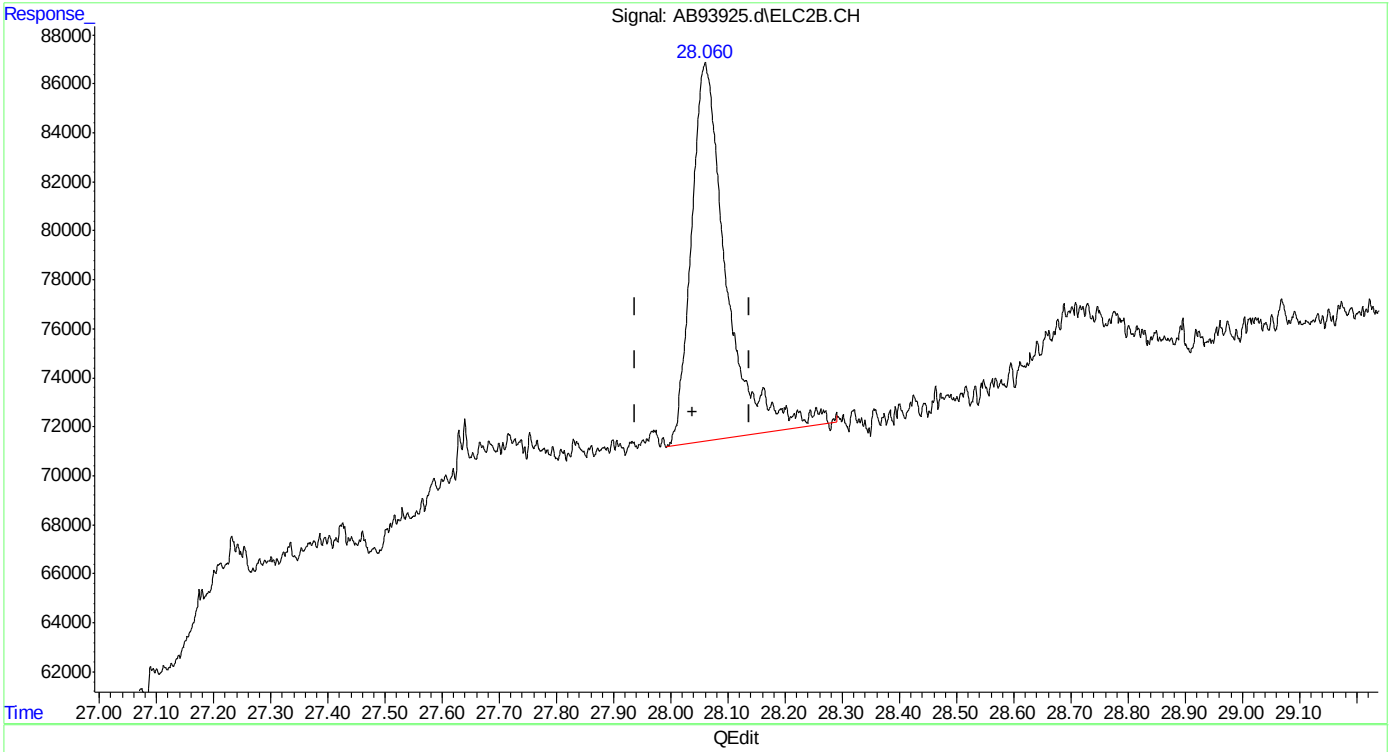
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93925.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 16:05:06
Operator  : tonyf
Sample    : mc45678-1,w,vmavph,00
Misc      : gc26206,gab5161,,,,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 04 06:45:47 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.060min 0.912 ppb m

response 659002

(+) = Expected Retention Time

ab160503vph.M Wed May 04 06:56:20 2016

SGS ACCUTEST MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:57:21 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.143	19568089	44.459	ppb	
Spiked Amount 50.000		Recovery =	88.92%		
6) s 2,3,4-trifluorotoluene	20.199	17910276	43.689	ppb	
Spiked Amount 50.000		Recovery =	87.38%		
16) s fluorobenzene #2	15.140	37528673	44.558	ppb	
Spiked Amount 50.000		Recovery =	89.12%		
18) s 2,3,4-trifluorotoluen...	20.197	19955568	42.743	ppb	
Spiked Amount 50.000		Recovery =	85.49%		
Target Compounds					
1) h rt5.5-7	6.420	468535	1.167	ppb	m
2) h rt7/10	8.720	476741	1.187	ppb	m
3) h rt10/13	13.870	3664224	9.126	ppb	
8) h rt20/25	21.870	13310130	21.245	ppb	
25) h c9-c10 arom as 1,2,4-tmb	25.096	23313334	24.334	ppb	m

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

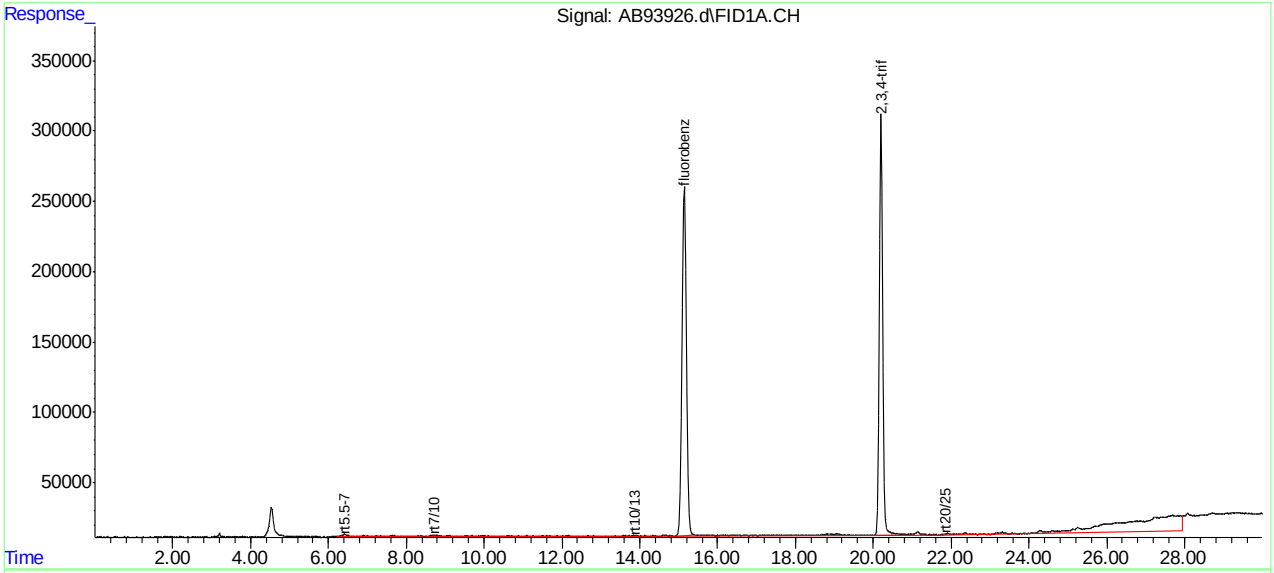
SGS ACCUTEST MC45678

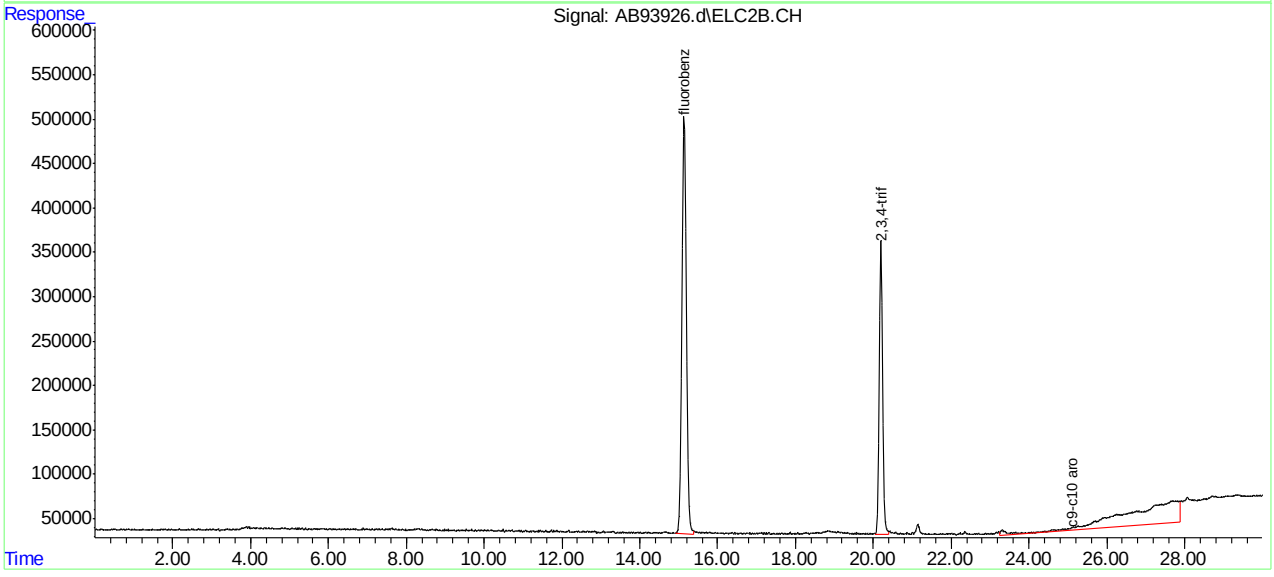
Quantitation Report (QT Reviewed)

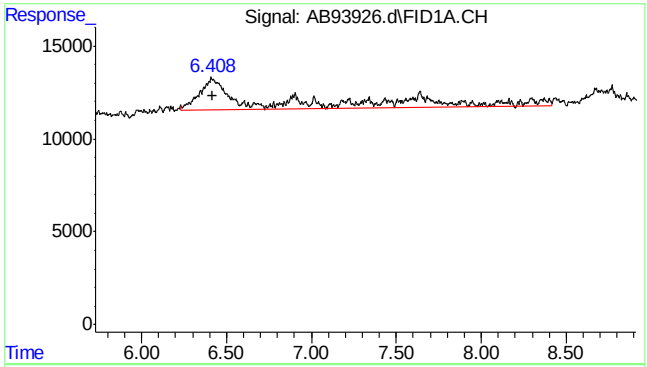
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 06:57:21 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 :

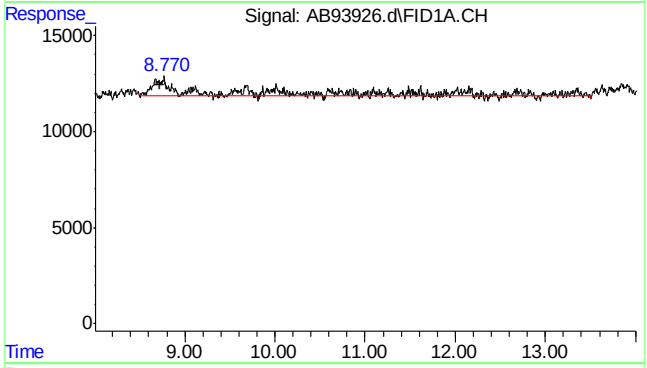






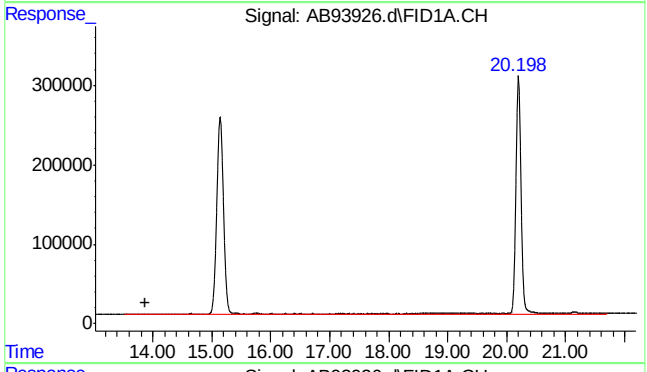
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 468535
Conc: 1.17 ppb m



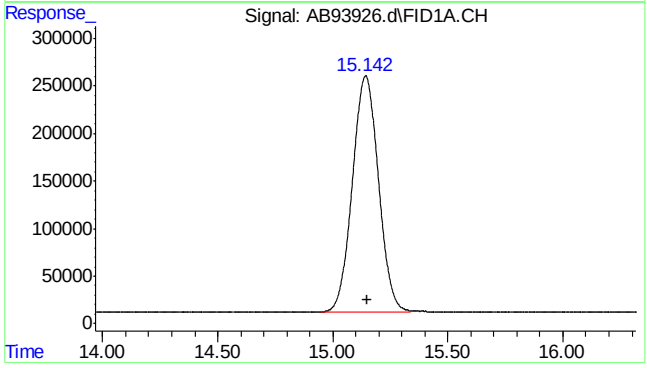
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 476741
Conc: 1.19 ppb m



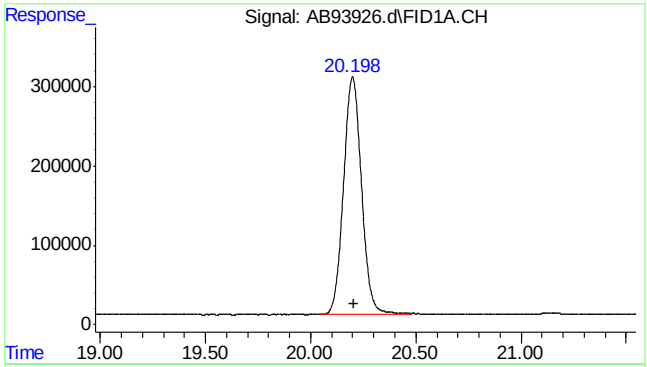
#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3664224
Conc: 9.13 ppb



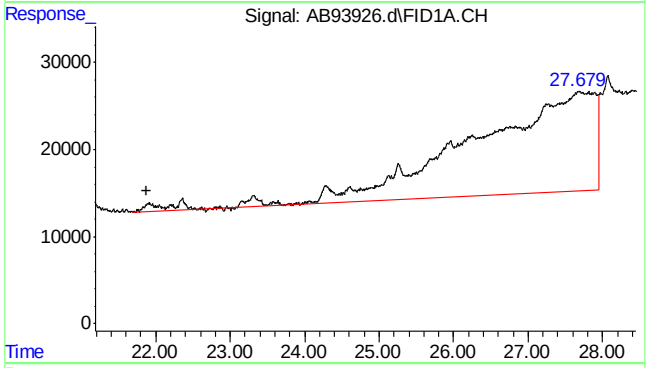
#4 fluorobenzene

R.T.: 15.143 min
Delta R.T.: -0.009 min
Response: 19568089
Conc: 44.46 ppb



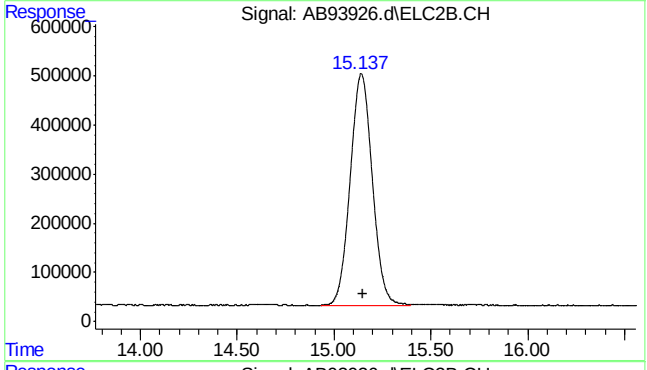
#6 2,3,4-trifluorotoluene

R.T.: 20.199 min
Delta R.T.: -0.007 min
Response: 17910276
Conc: 43.69 ppb



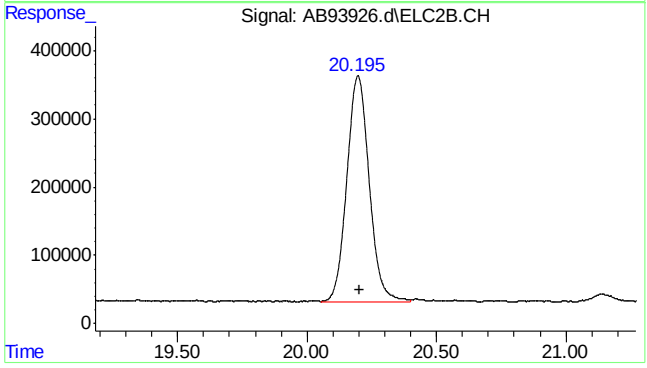
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 13310130
Conc: 21.25 ppb



#16 fluorobenzene #2

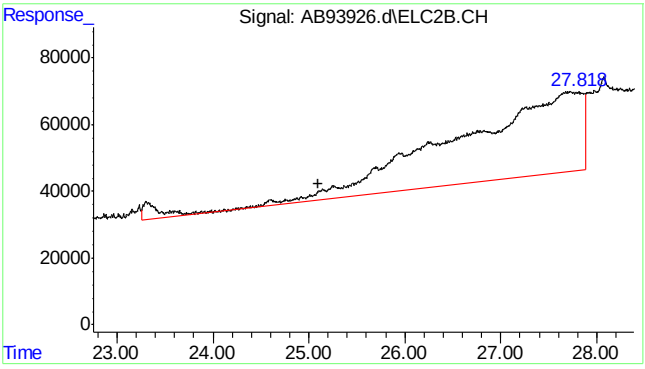
R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 37528673
Conc: 44.56 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 20.197 min
Delta R.T.: -0.006 min
Response: 19955568
Conc: 42.74 ppb

SGS ACCUTEST MC45678



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 23313334
Conc: 24.33 ppb m

7.1.2

7

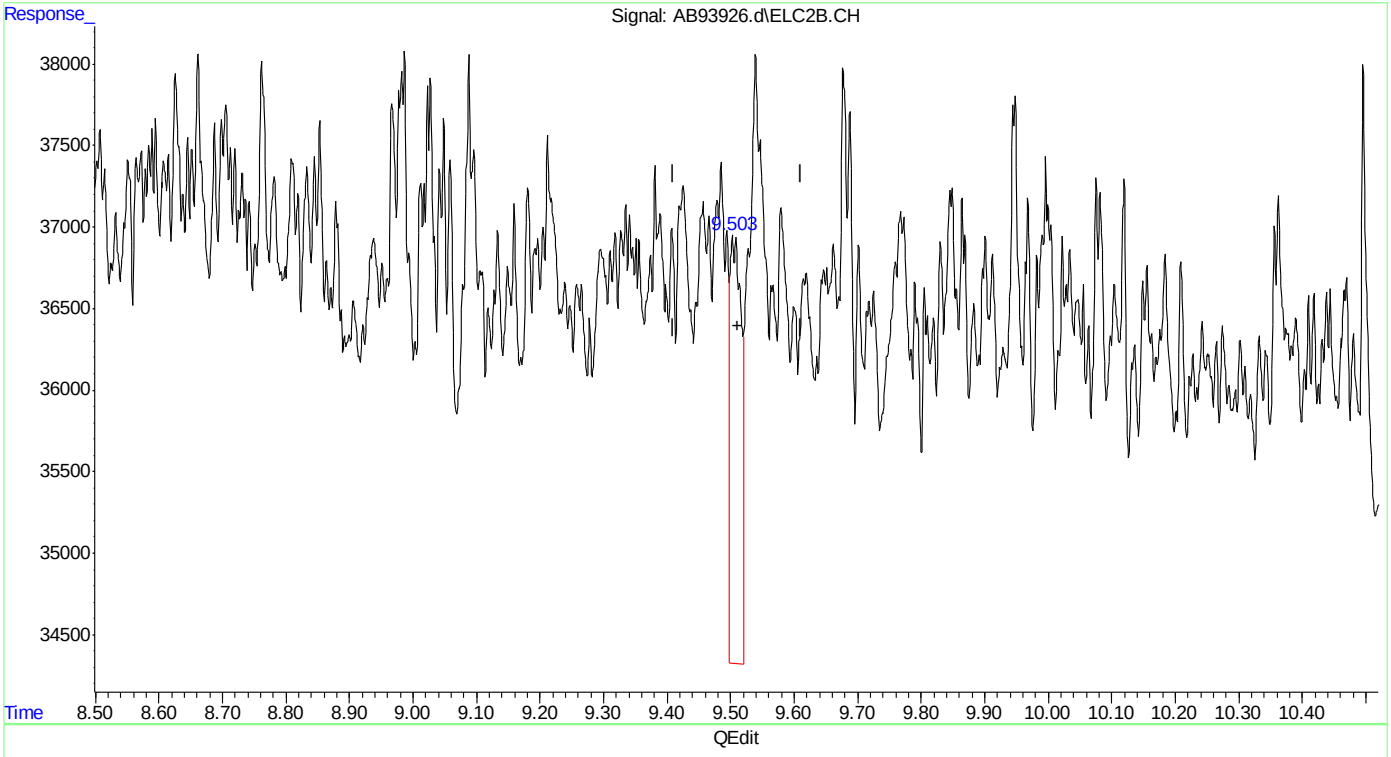
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 0.063 ppb
response 31533

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:56:46 2016

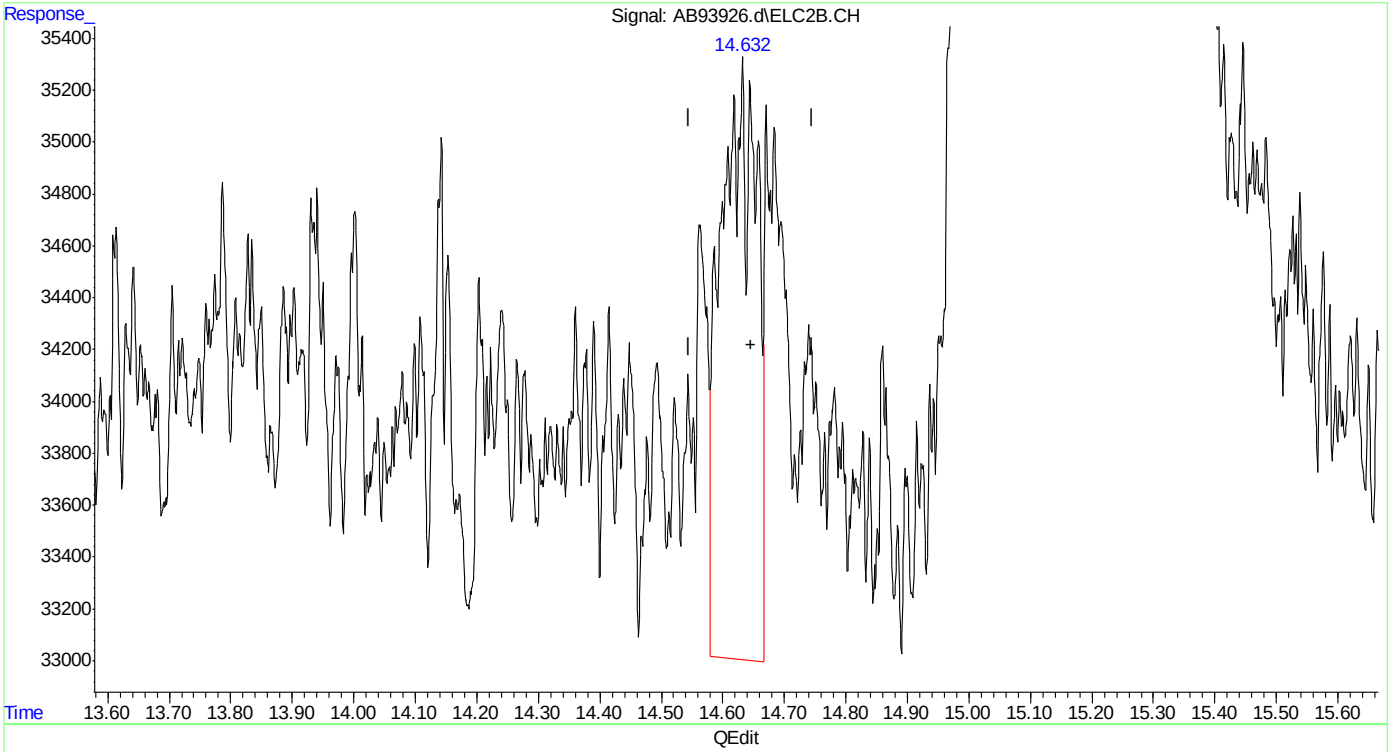
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
14.631min 0.071 ppb
response 92719

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:56:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
19.113min 0.073 ppb
response 83130

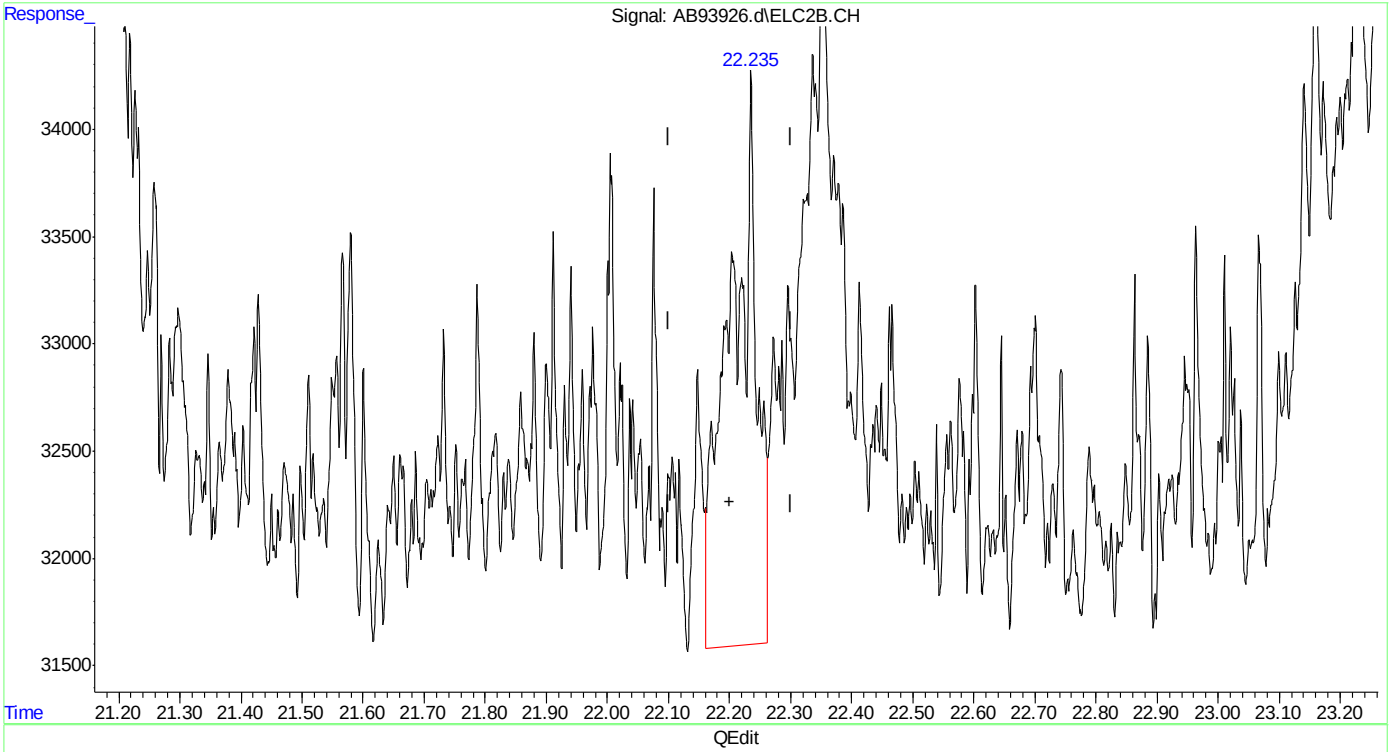
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
22.205min 0.089 ppb
response 82174

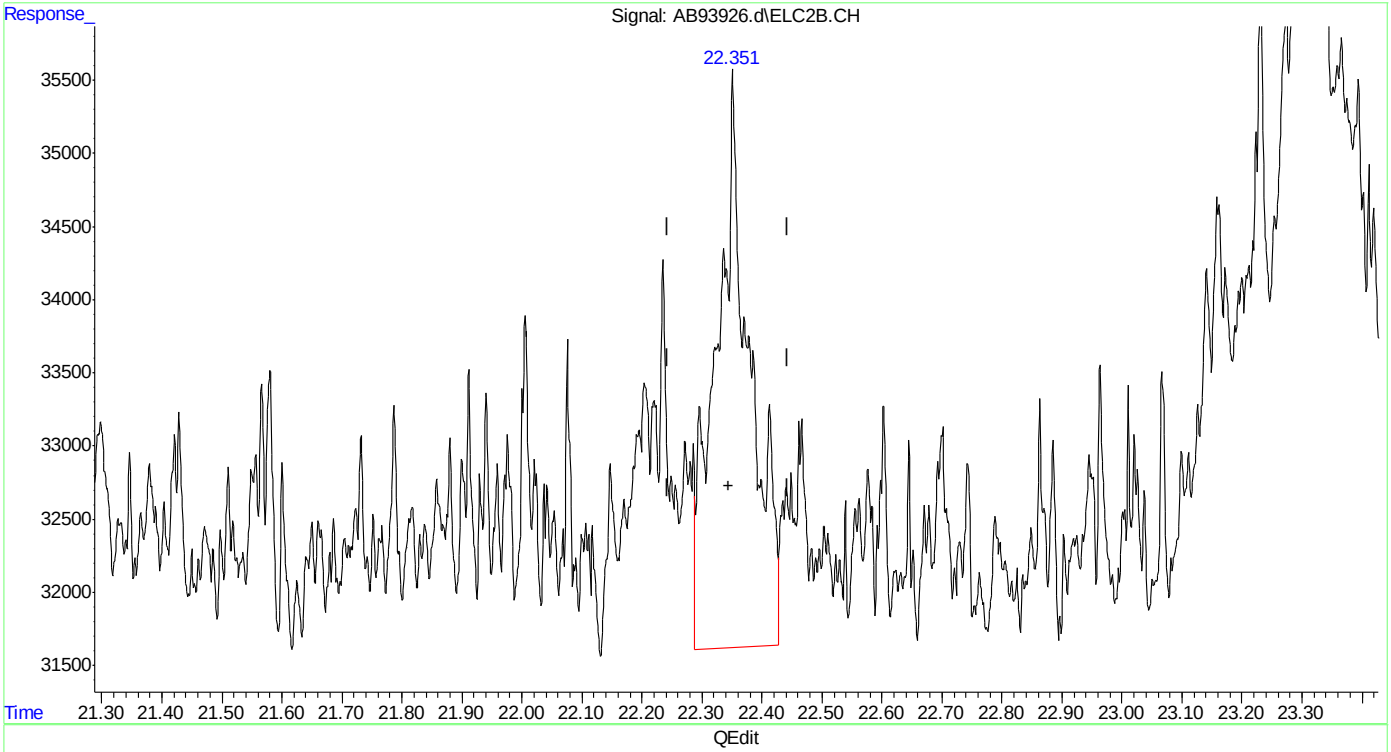
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
22.353min 0.145 ppb
response 153461

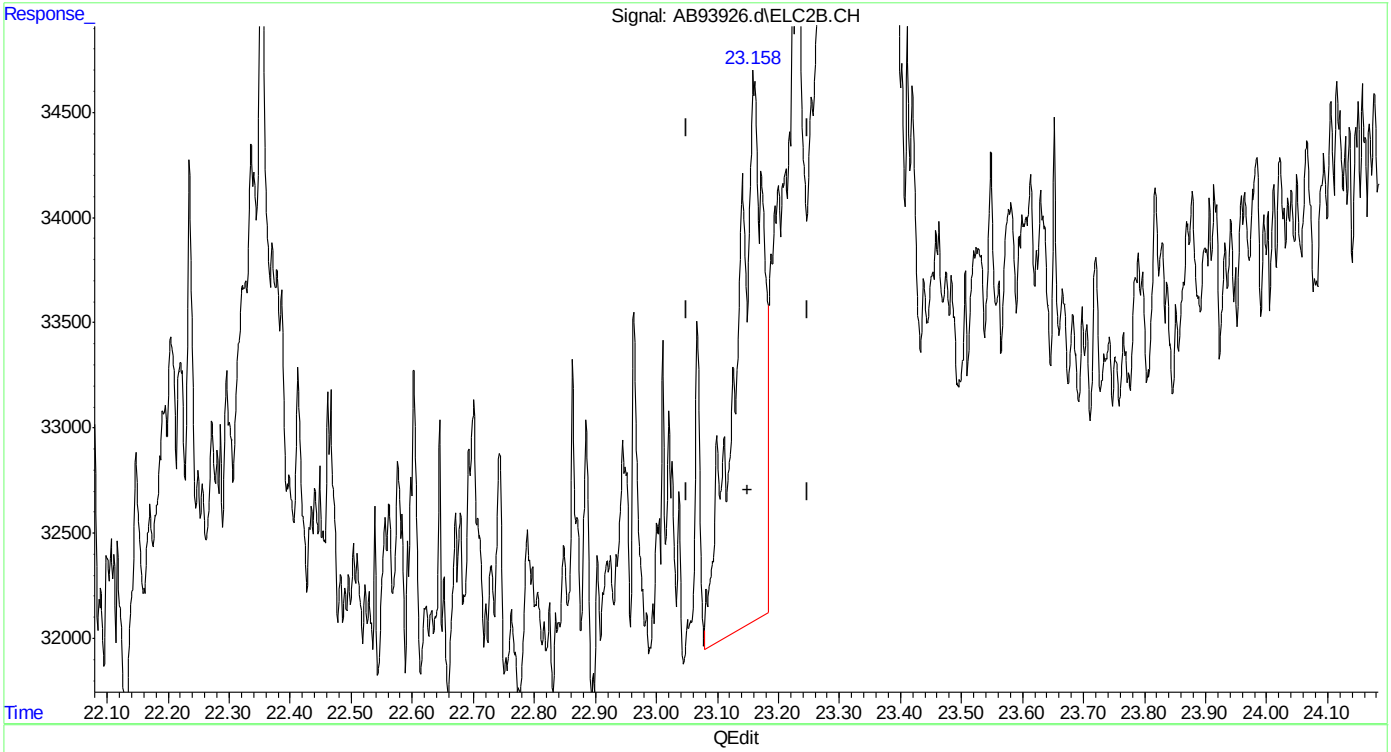
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
23.160min 0.087 ppb
response 81304

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
25.143min 0.079 ppb
response 75626

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:57:09 2016

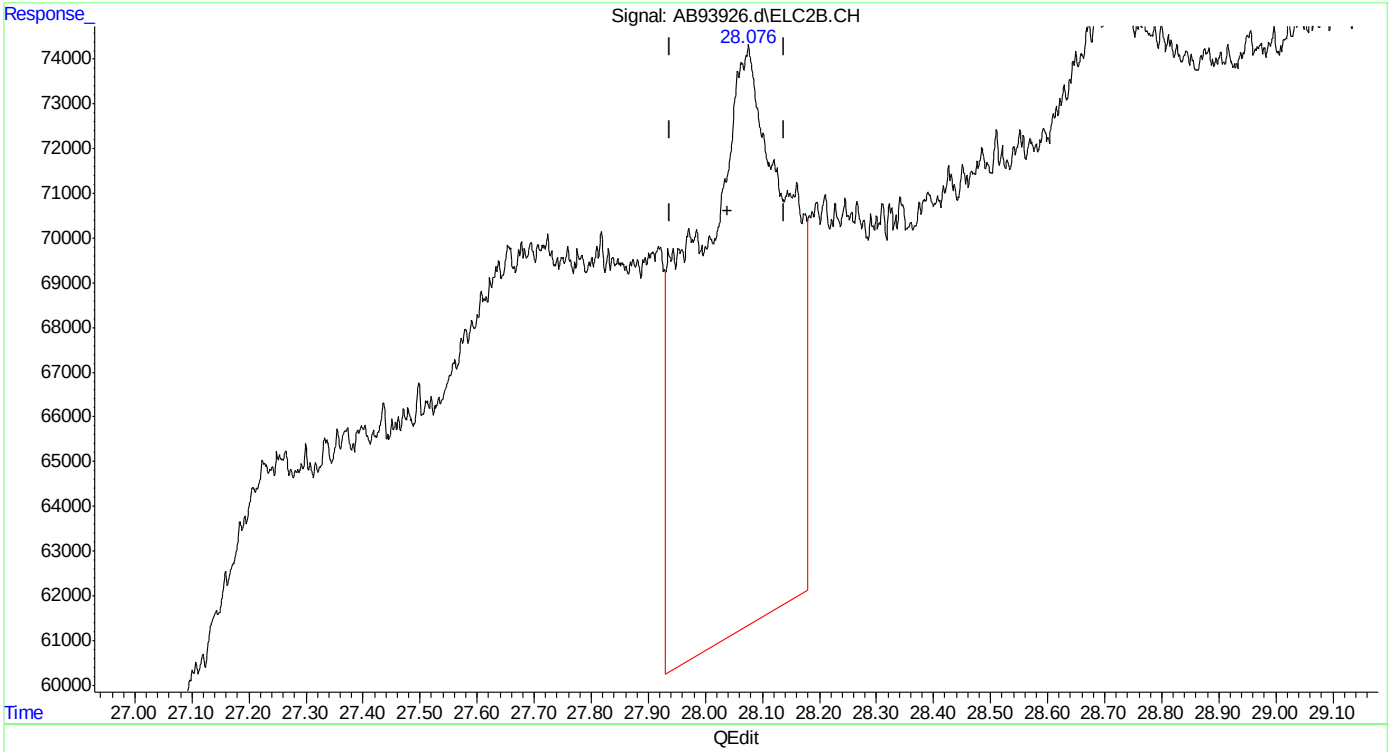
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93926.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 16:42:46
Operator : tonyf
Sample : mc45678-2,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
28.075min 2.066 ppb
response 1493691

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/10/16 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:12:48 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	23967003	54.453	ppb	
Spiked Amount 50.000		Recovery = 108.91%			
6) s 2,3,4-trifluorotoluene	20.199	21333568	52.039	ppb	
Spiked Amount 50.000		Recovery = 104.08%			
16) s fluorobenzene #2	15.139	45457713	53.972	ppb	
Spiked Amount 50.000		Recovery = 107.94%			
18) s 2,3,4-trifluorotoluen...	20.197	23857604	51.100	ppb	
Spiked Amount 50.000		Recovery = 102.20%			
Target Compounds					
1) h rt5.5-7	6.420	452069	1.126	ppb	m
2) h rt7/10	8.720	409926	1.021	ppb	m
3) h rt10/13	13.870	1585216	3.948	ppb	m
8) h rt20/25	21.870	13103093	20.915	ppb	
24) naphthalene #2	28.059	610760	0.845	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	22687826	23.681	ppb	m

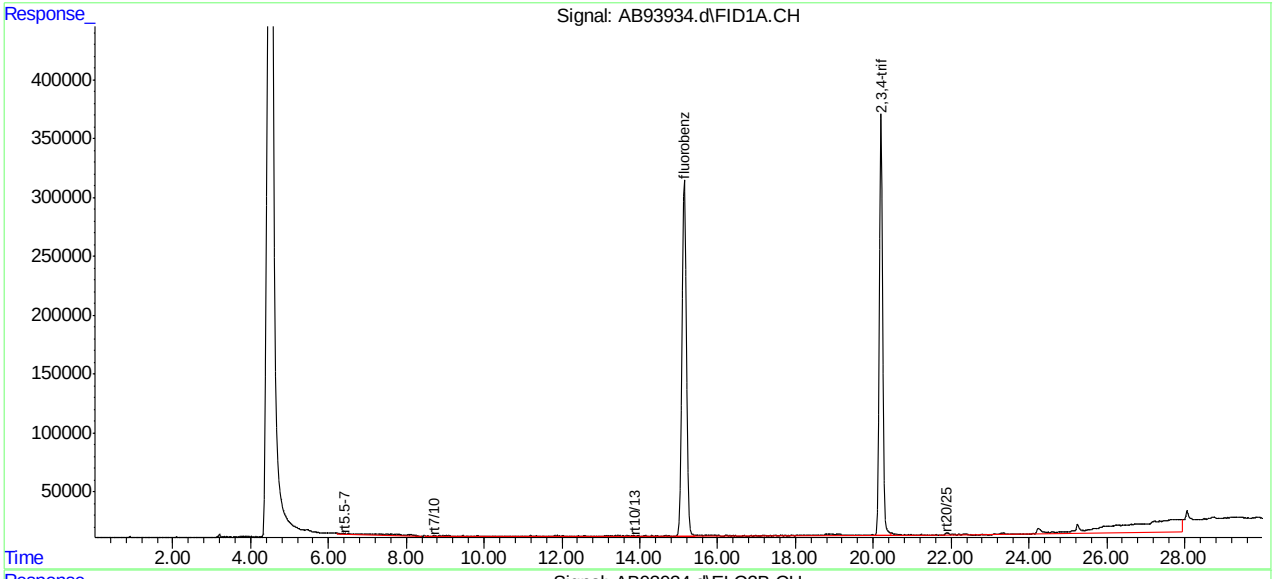
(f)=RT Delta > 1/2 Window (m)=manual int.

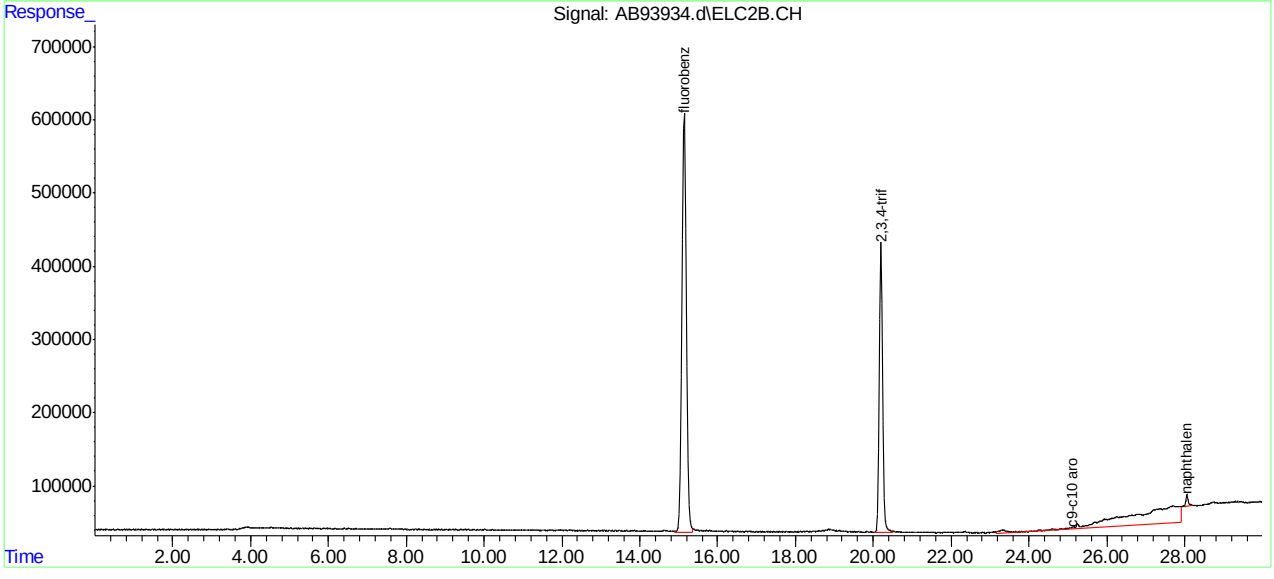
Quantitation Report (QT Reviewed)

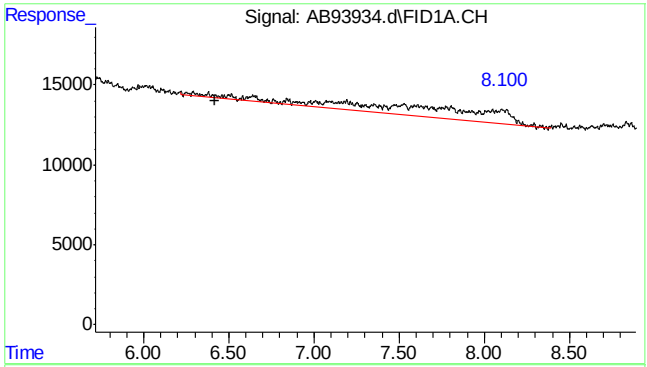
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,100,16,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 11:12:48 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 :

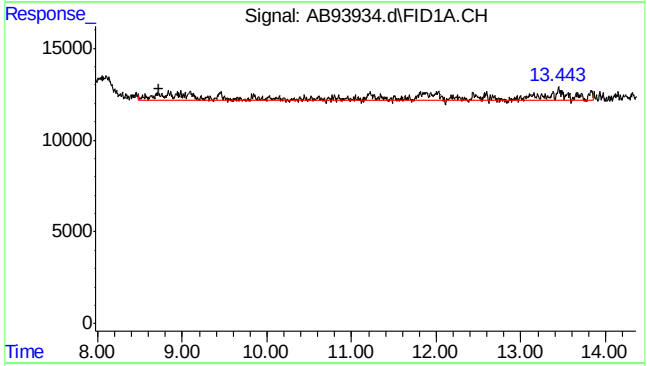






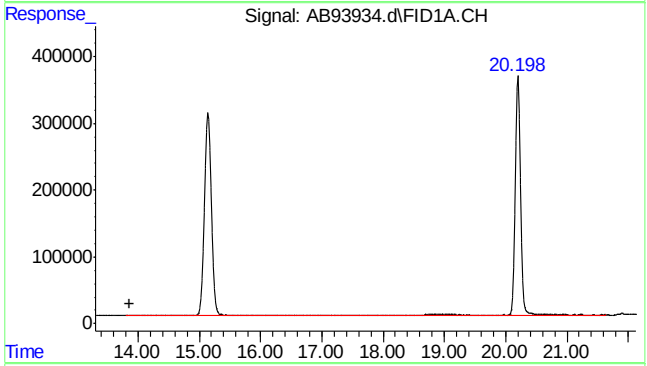
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 452069
Conc: 1.13 ppb m



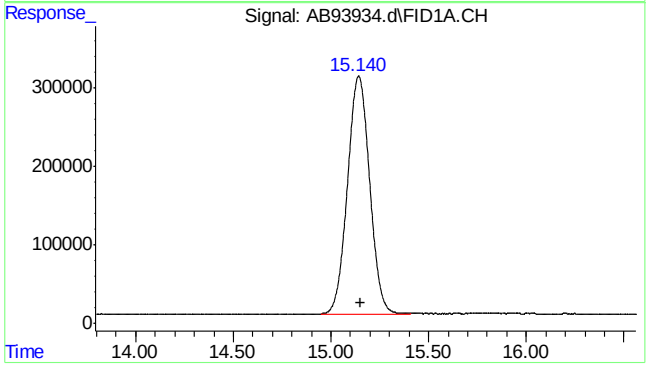
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 409926
Conc: 1.02 ppb m



#3 rt10/13

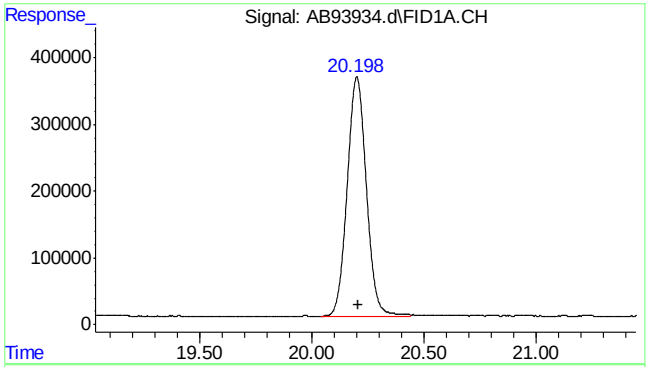
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 1585216
Conc: 3.95 ppb m



#4 fluorobenzene

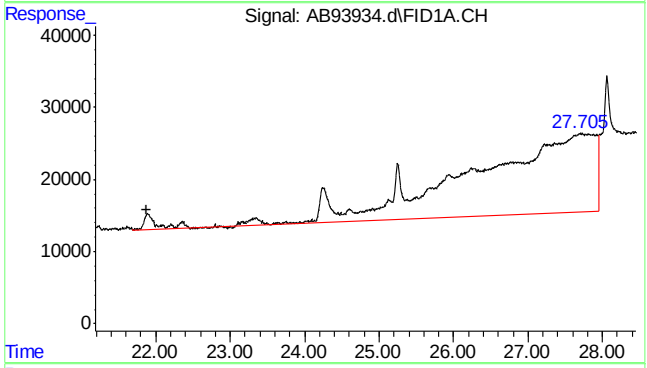
R.T.: 15.141 min
Delta R.T.: -0.010 min
Response: 23967003
Conc: 54.45 ppb

SGS ACCUTEST MC45678



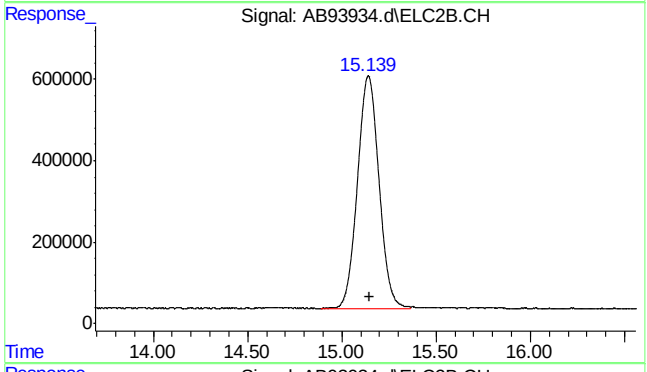
#6 2,3,4-trifluorotoluene

R.T.: 20.199 min
Delta R.T.: -0.006 min
Response: 21333568
Conc: 52.04 ppb



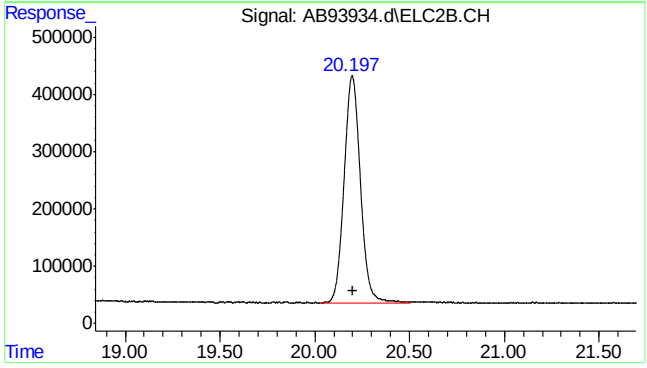
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 13103093
Conc: 20.91 ppb



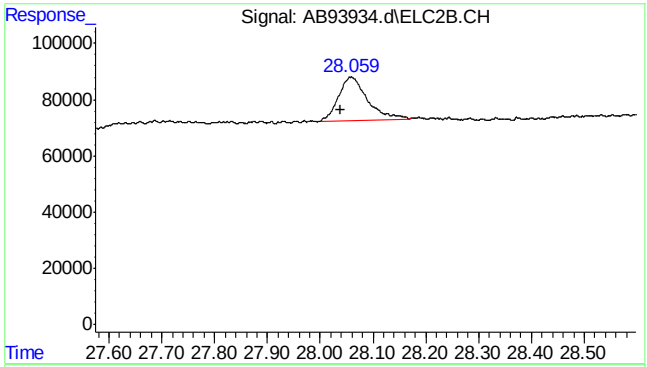
#16 fluorobenzene #2

R.T.: 15.139 min
Delta R.T.: -0.009 min
Response: 45457713
Conc: 53.97 ppb



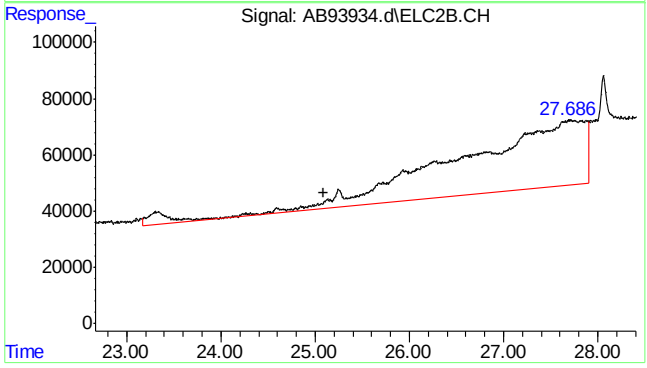
#18 2,3,4-trifluorotoluene #2

R.T.: 20.197 min
Delta R.T.: -0.006 min
Response: 23857604
Conc: 51.10 ppb



#24 naphthalene #2

```
      R.T.:   28.059 min
Delta R.T.:    0.020 min
  Response:    610760
      Conc:   0.84 ppb m
```



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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  22687826
      Conc:  23.68 ppb m
```

7.1.3

7

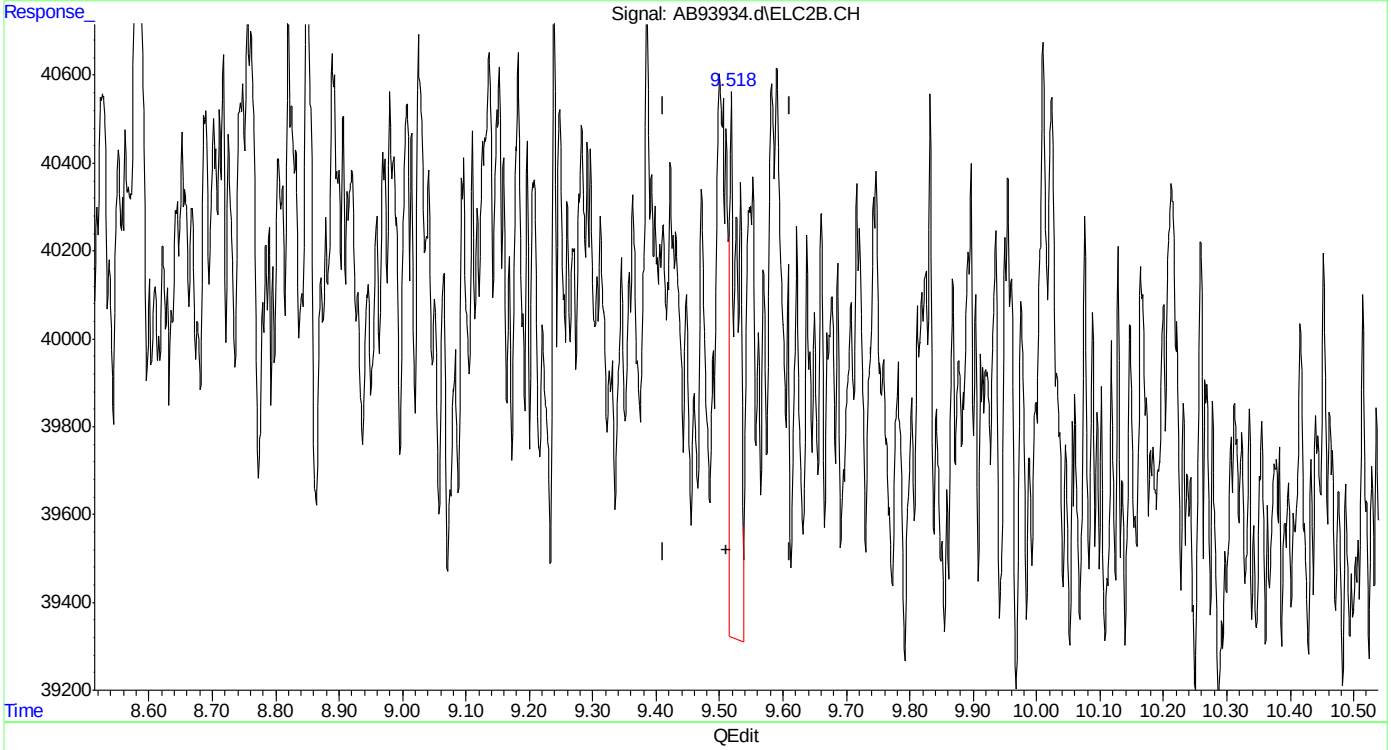
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
9.518min 0.025 ppb
response 12601

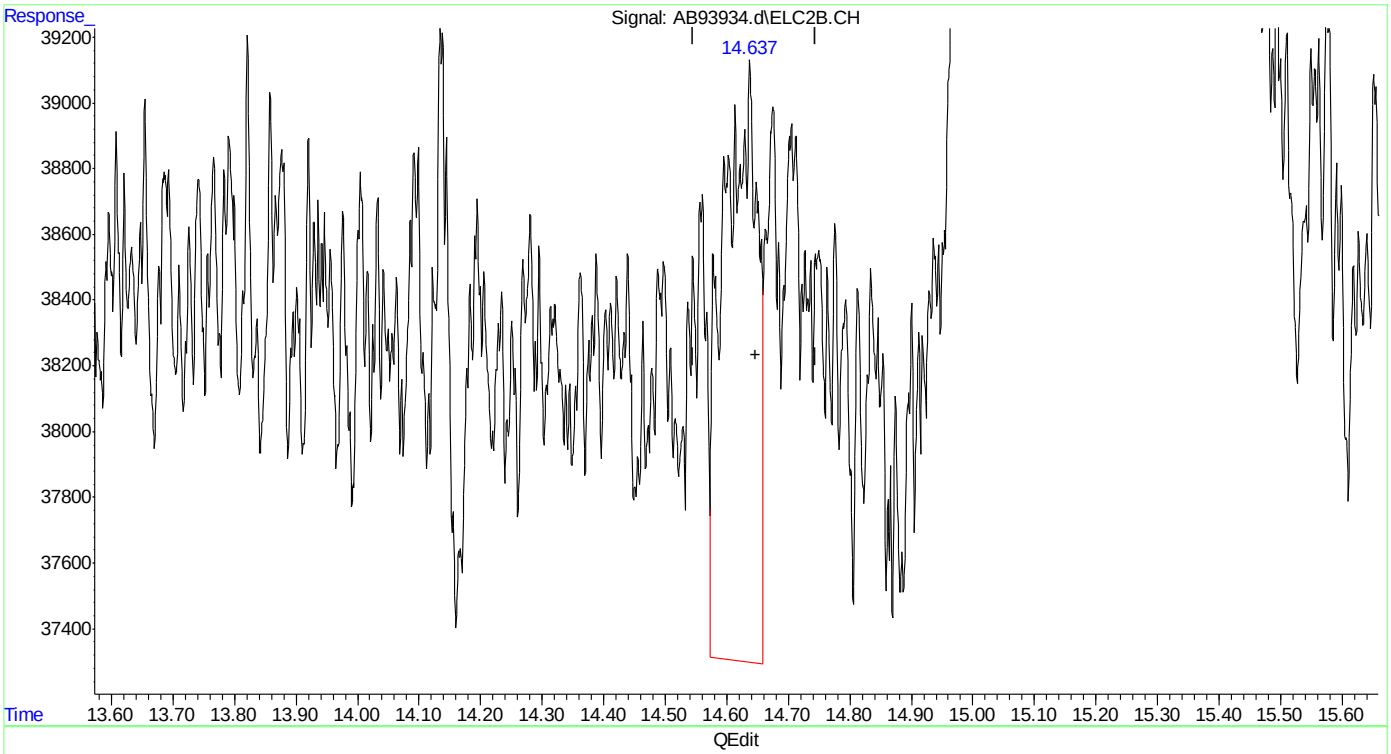
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
14.638min 0.054 ppb
response 70094

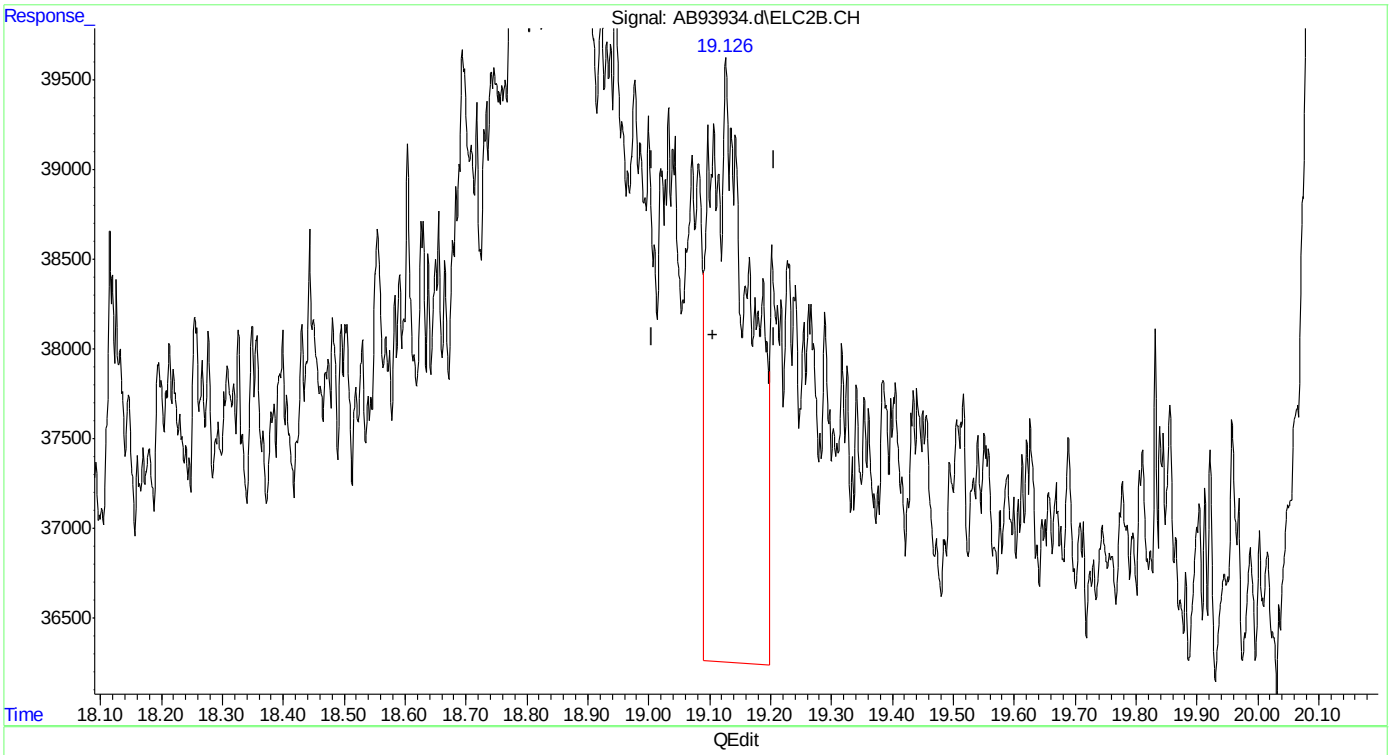
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
19.128min 0.134 ppb
response 153455

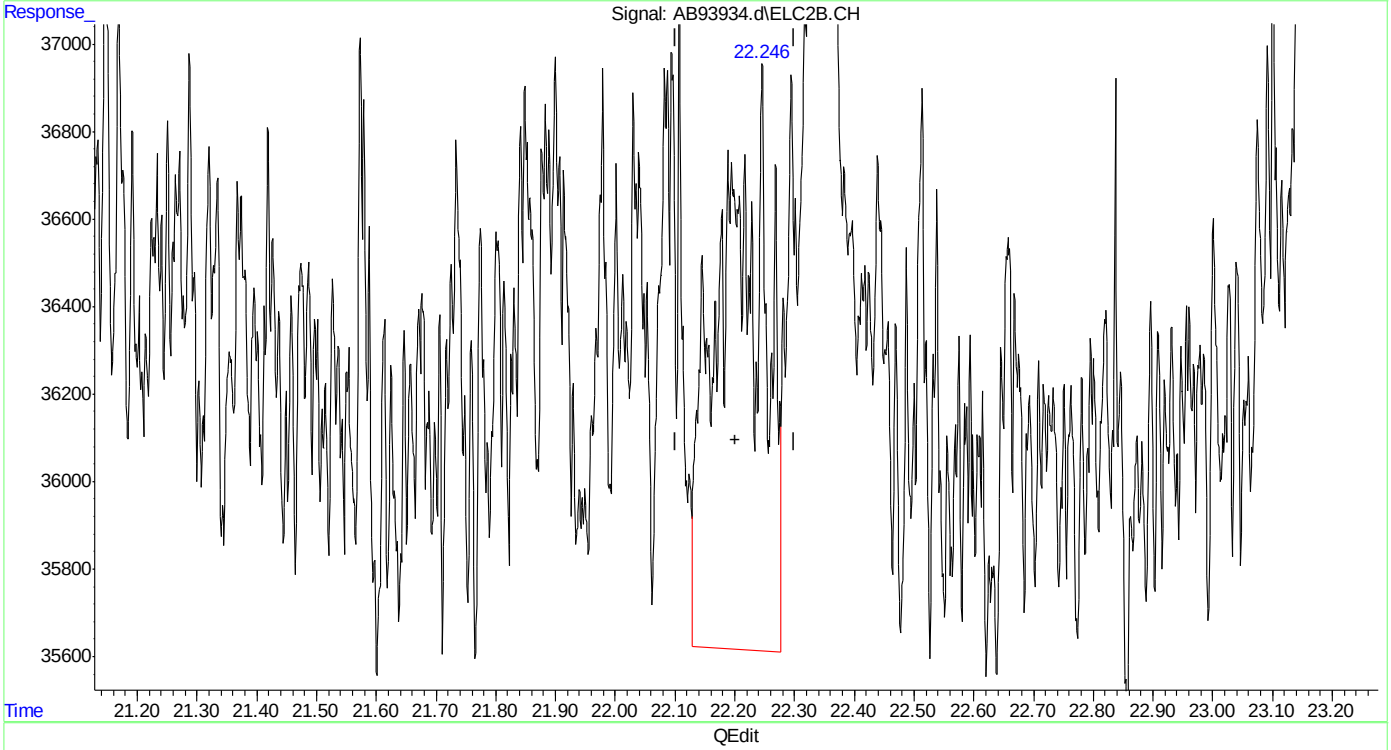
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
22.197min 0.075 ppb
response 69038

(+) = Expected Retention Time

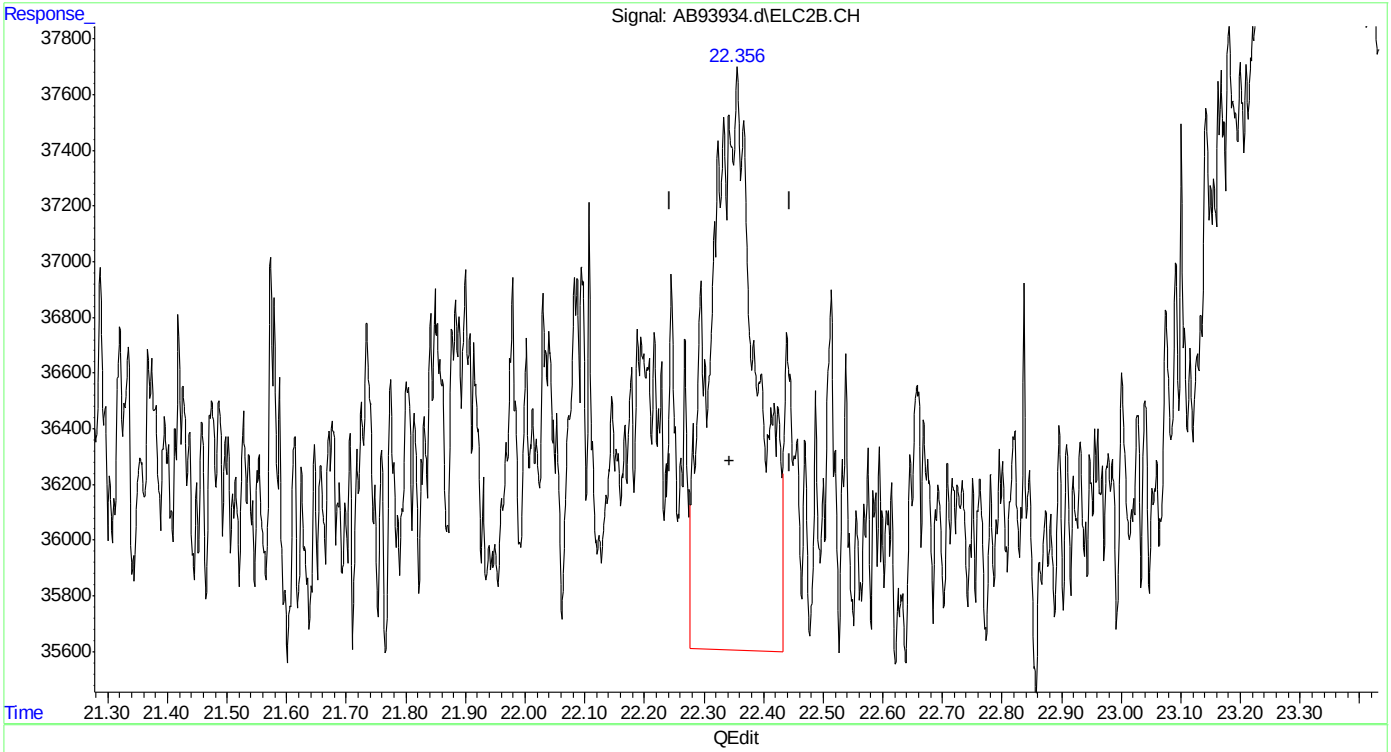
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
22.355min 0.107 ppb
response 113467

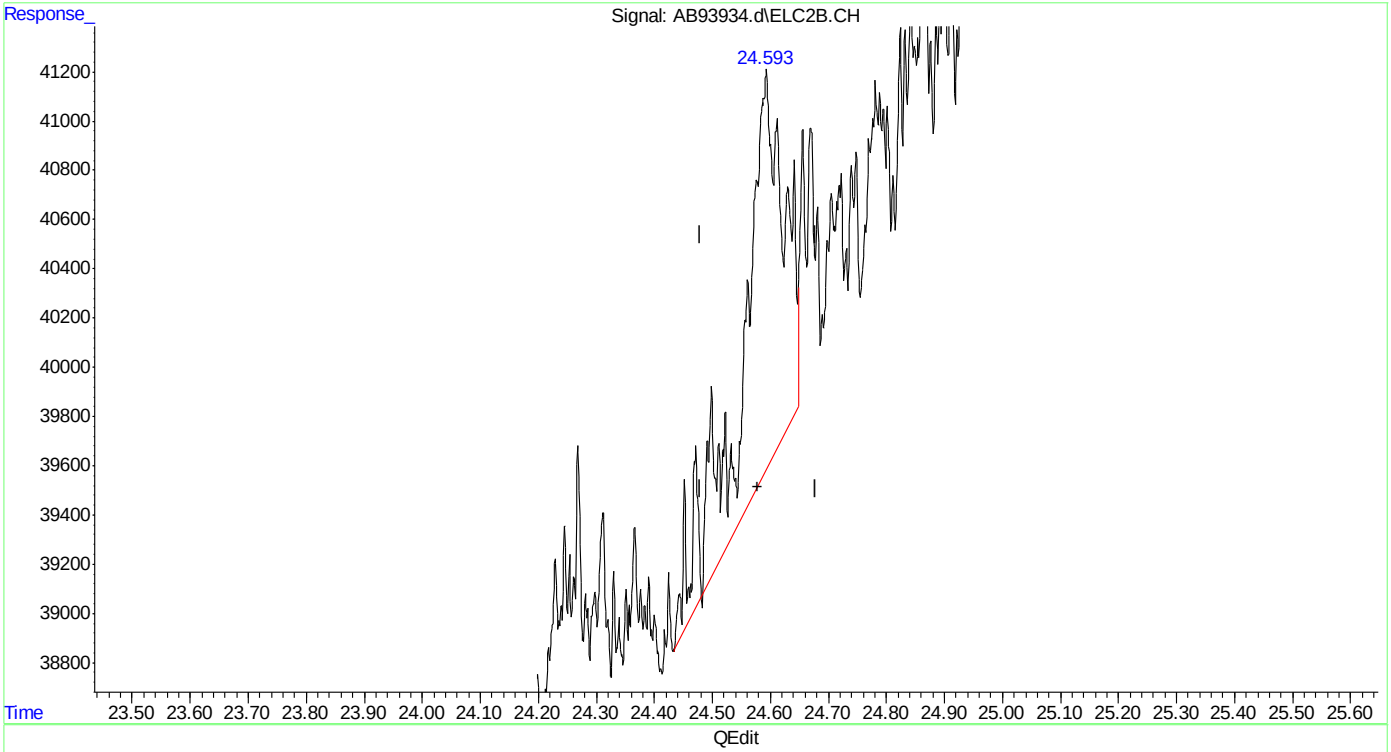
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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)
24.592min 0.063 ppb
response 81745

(+) = Expected Retention Time
ab160504vph.M Wed May 04 11:12:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
25.128min 0.087 ppb
response 82865

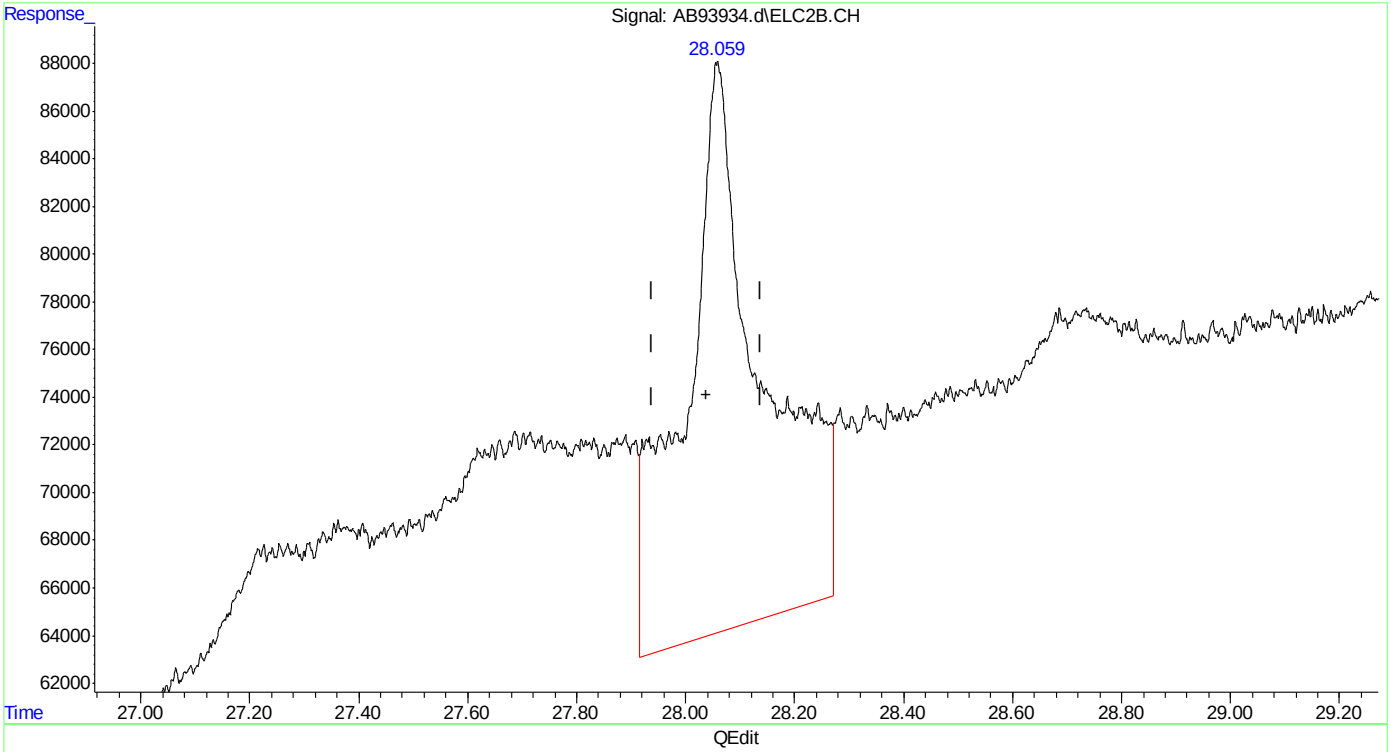
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
28.059min 3.287 ppb
response 2376306

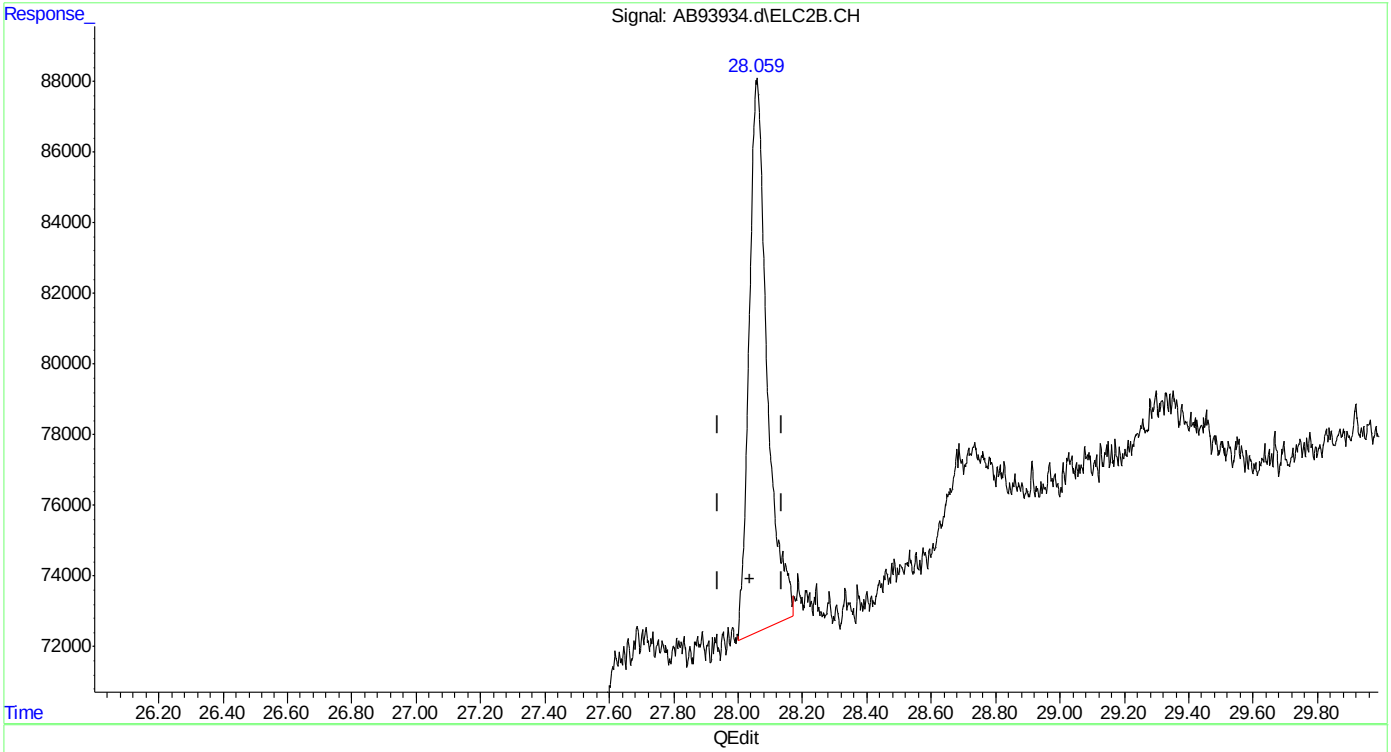
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93934.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 10:36:26
Operator : tonyf
Sample : mc45678-3,s,vmavph,16
Misc : gc26207,gab5162,15.32,,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 04 11:11:44 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
28.059min 0.845 ppb m
response 610760

(+) = Expected Retention Time

SGS ACCUTEST MC45678

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:12:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:57:48 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.143	19401087	44.079	ppb	
Spiked Amount 50.000		Recovery =	88.16%		
6) s 2,3,4-trifluorotoluene	20.199	17651724	43.058	ppb	
Spiked Amount 50.000		Recovery =	86.12%		
16) s fluorobenzene #2	15.140	37057625	43.999	ppb	
Spiked Amount 50.000		Recovery =	88.00%		
18) s 2,3,4-trifluorotoluen...	20.197	19864936	42.548	ppb	
Spiked Amount 50.000		Recovery =	85.10%		
Target Compounds					
1) h rt5.5-7	6.420	332383	0.828	ppb	m
2) h rt7/10	8.720	420195	1.047	ppb	m
3) h rt10/13	13.870	2992808	7.454	ppb	
8) h rt20/25	21.870	13407729	21.401	ppb	
24) naphthalene #2	28.061	551534	0.763	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	24330003	25.395	ppb	m

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

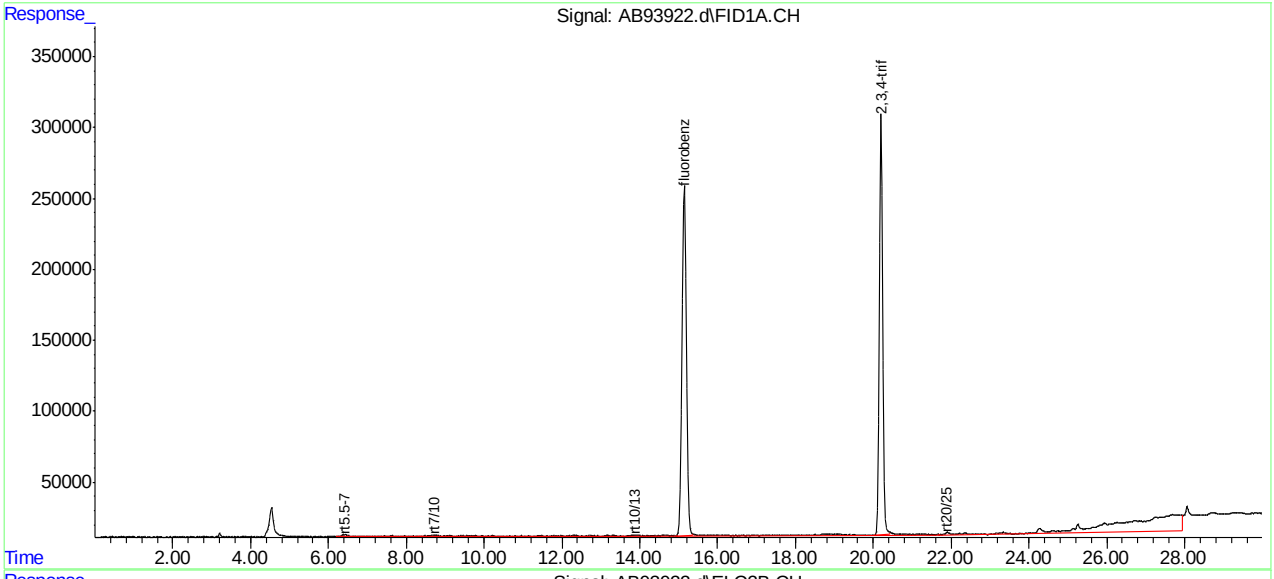
SGS ACCUTEST MC45678

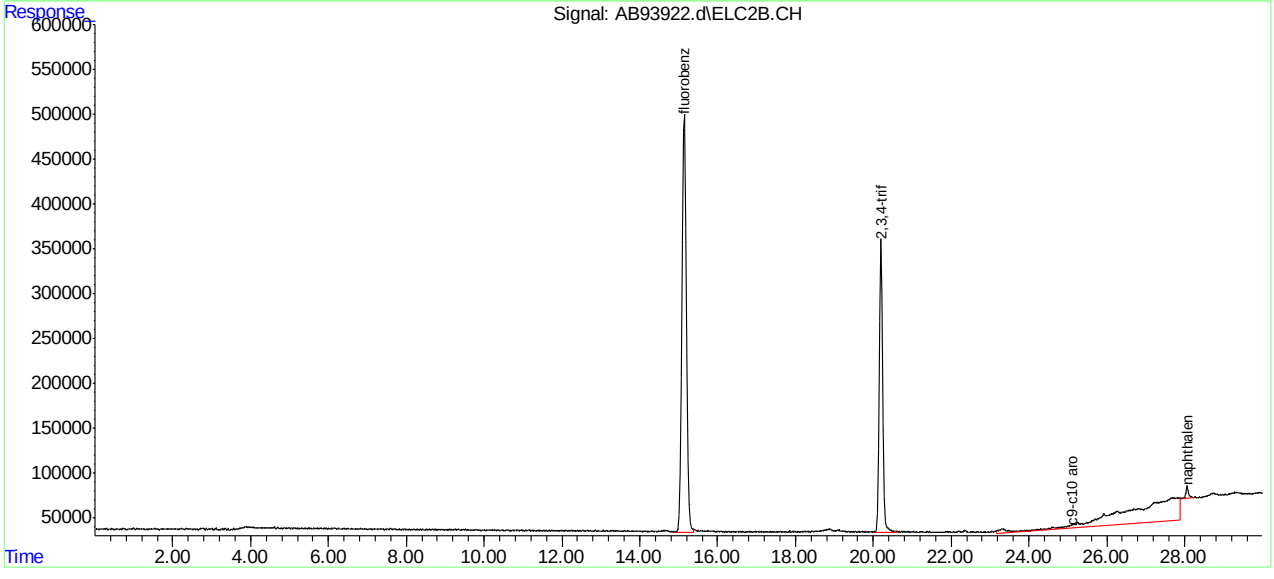
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:12:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

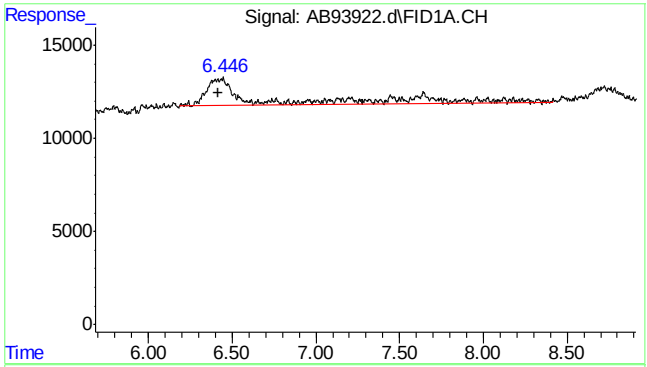
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:57:48 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



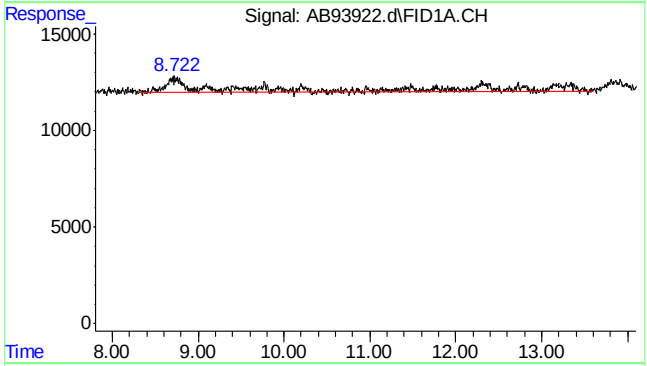


ab160503vph.M Wed May 04 07:02:03 2016 Page: 2



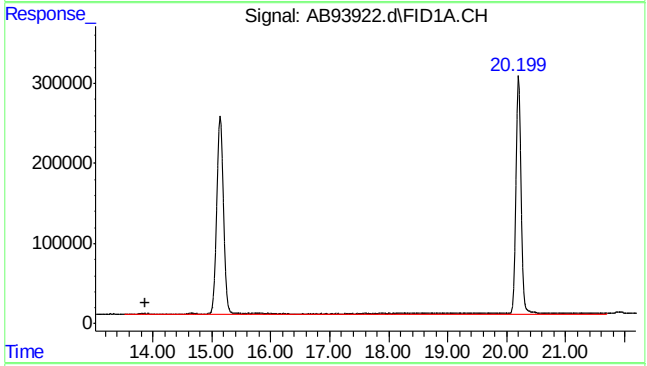
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 332383
Conc: 0.83 ppb m



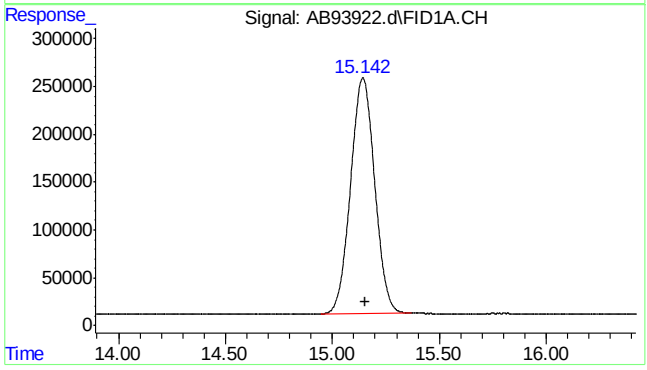
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 420195
Conc: 1.05 ppb m



#3 rt10/13

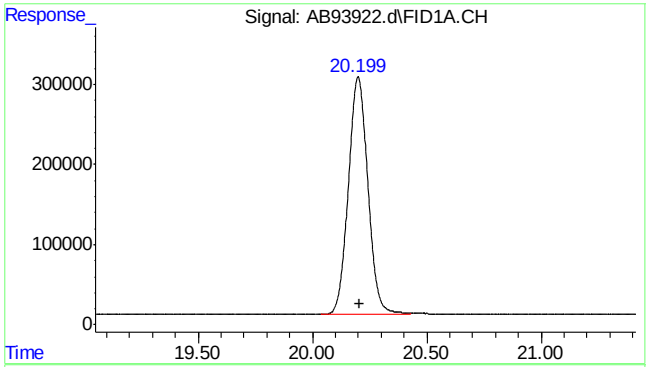
R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 2992808
Conc: 7.45 ppb



#4 fluorobenzene

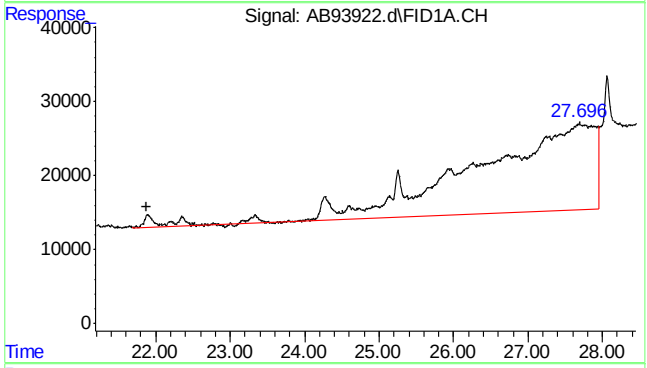
R.T.: 15.143 min
Delta R.T.: -0.008 min
Response: 19401087
Conc: 44.08 ppb

SGS ACCUTEST MC45678



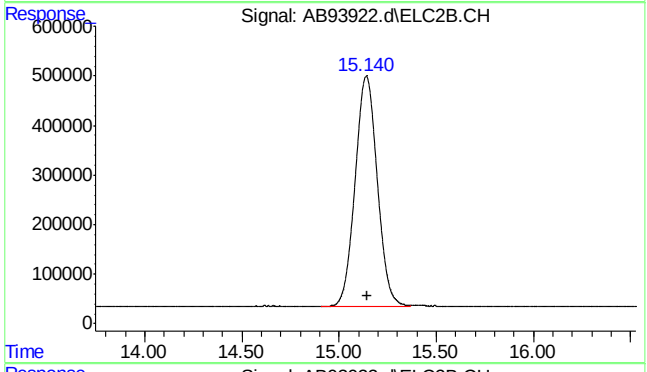
#6 2,3,4-trifluorotoluene

R.T.: 20.199 min
Delta R.T.: -0.006 min
Response: 17651724
Conc: 43.06 ppb



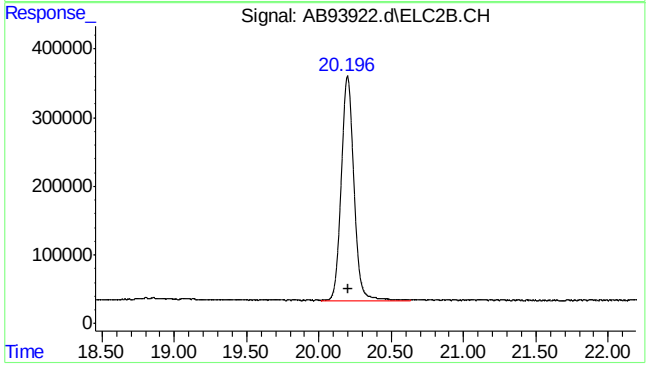
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 13407729
Conc: 21.40 ppb



#16 fluorobenzene #2

R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 37057625
Conc: 44.00 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 20.197 min
Delta R.T.: -0.006 min
Response: 19864936
Conc: 42.55 ppb

7.2.1

7

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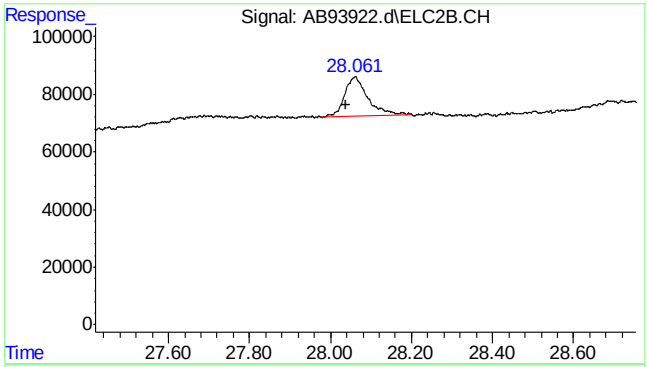
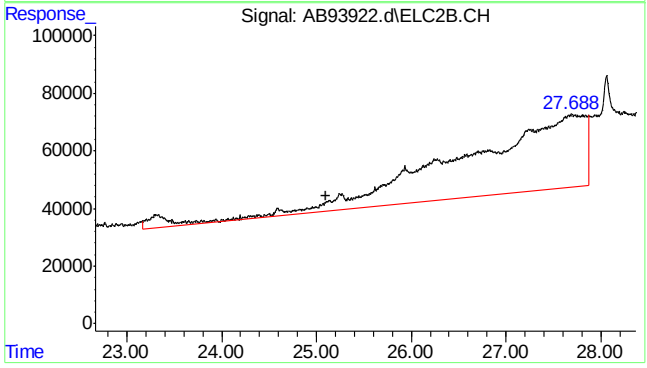


#24 naphthalene #2

```
      R.T.:   28.061 min
Delta R.T.:    0.023 min
  Response:    551534
      Conc:   0.76 ppb m
```



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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  24330003
      Conc:  25.40 ppb m
```

7.2.1

7

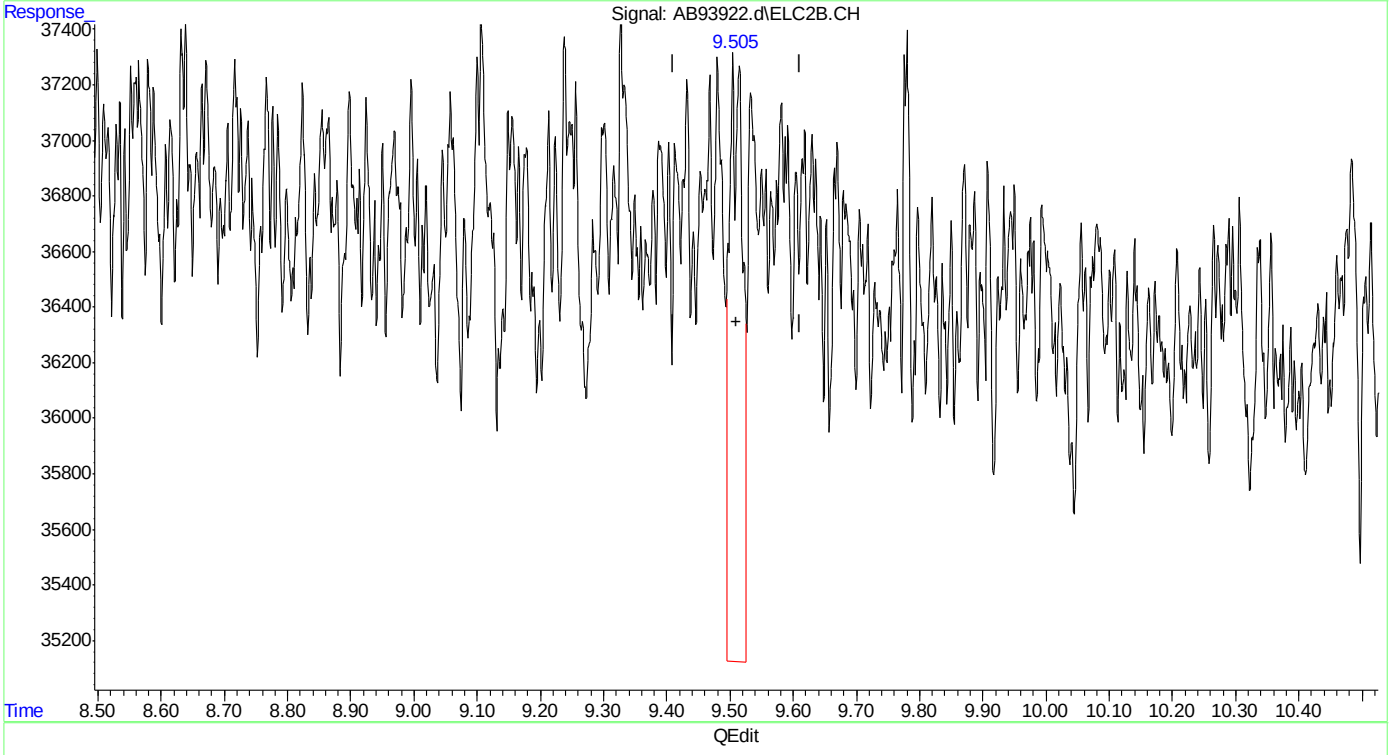
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:12:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 0.065 ppb
response 32757

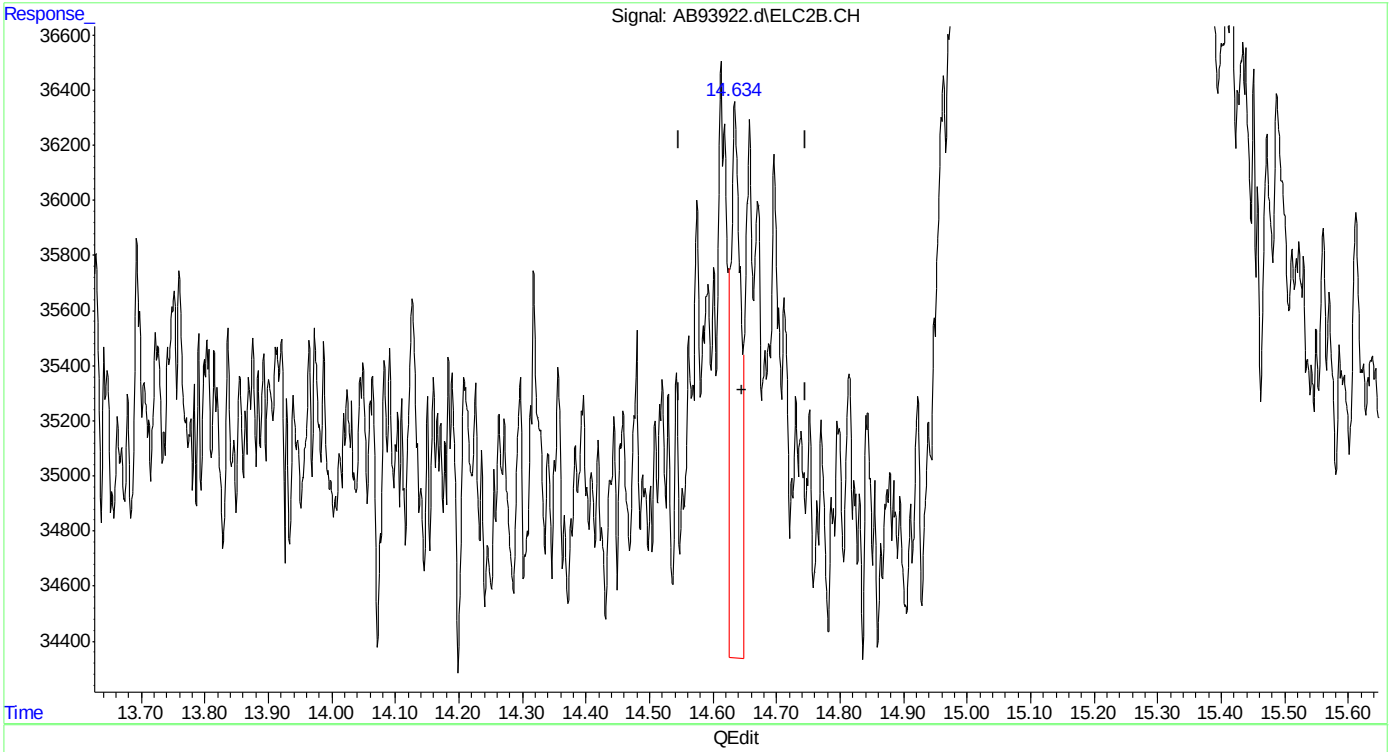
(+) = Expected Retention Time
ab160503vph.M Tue May 03 14:57:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:12:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
14.635min 0.016 ppb
response 20309

(+) = Expected Retention Time
ab160503vph.M Tue May 03 14:57:16 2016

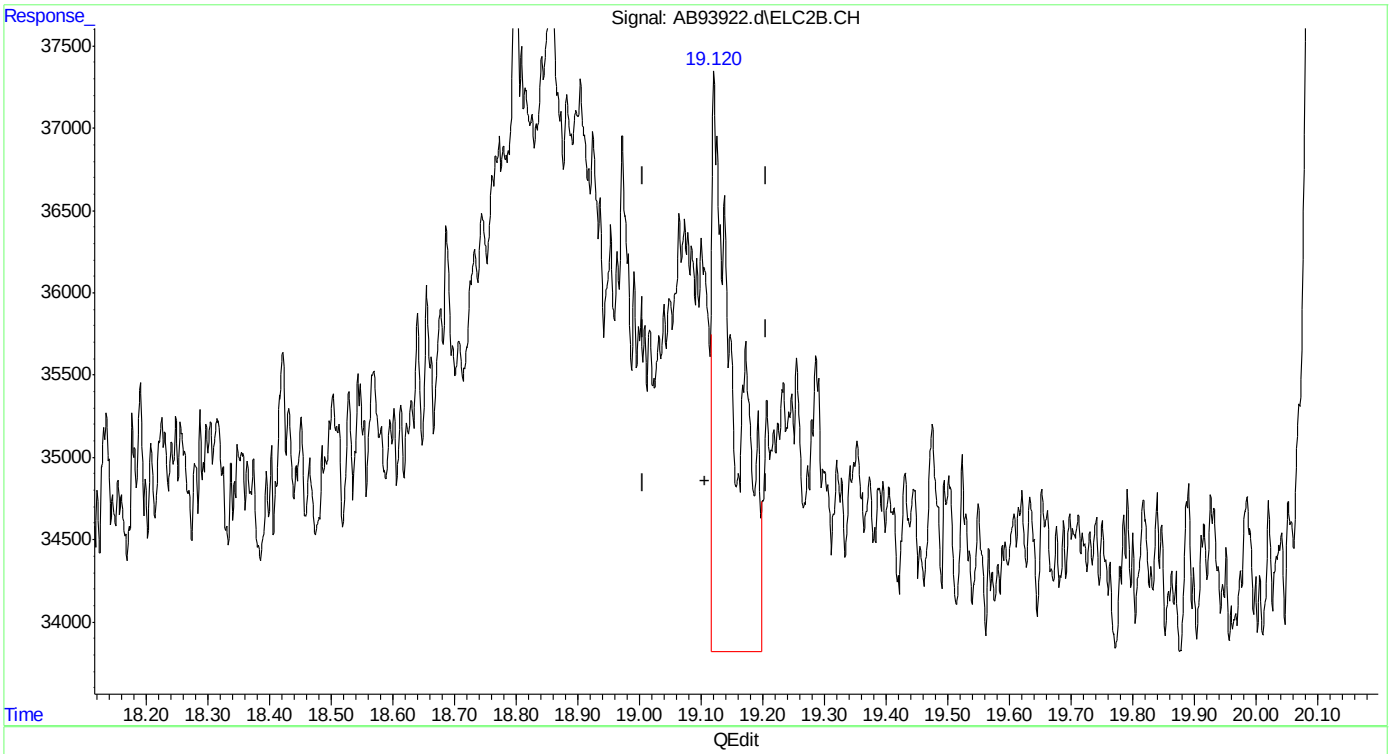
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:12:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
19.124min 0.078 ppb
response 89523

(+) = Expected Retention Time
ab160503vph.M Tue May 03 14:57:20 2016

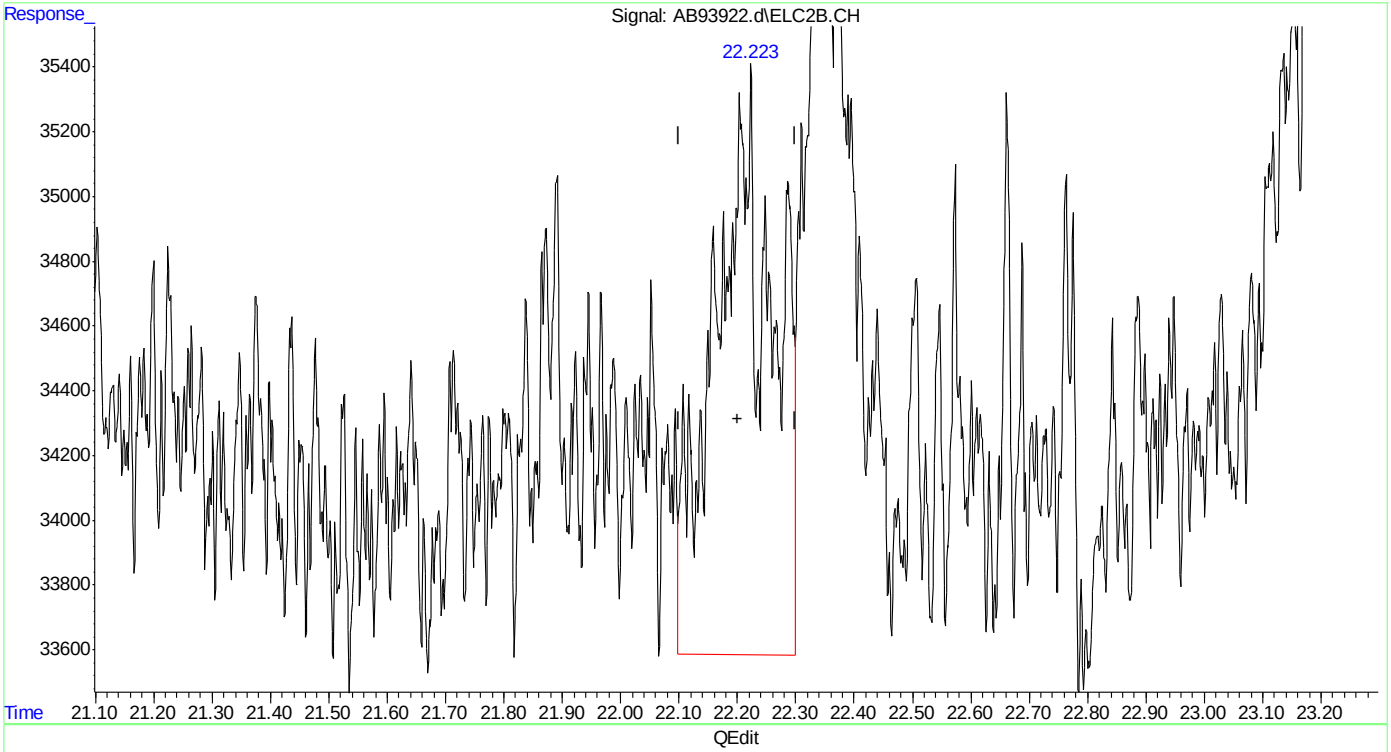
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:12:03
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26206,gab5161,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

22.209min 0.131 ppb

response 121611

(+) = Expected Retention Time

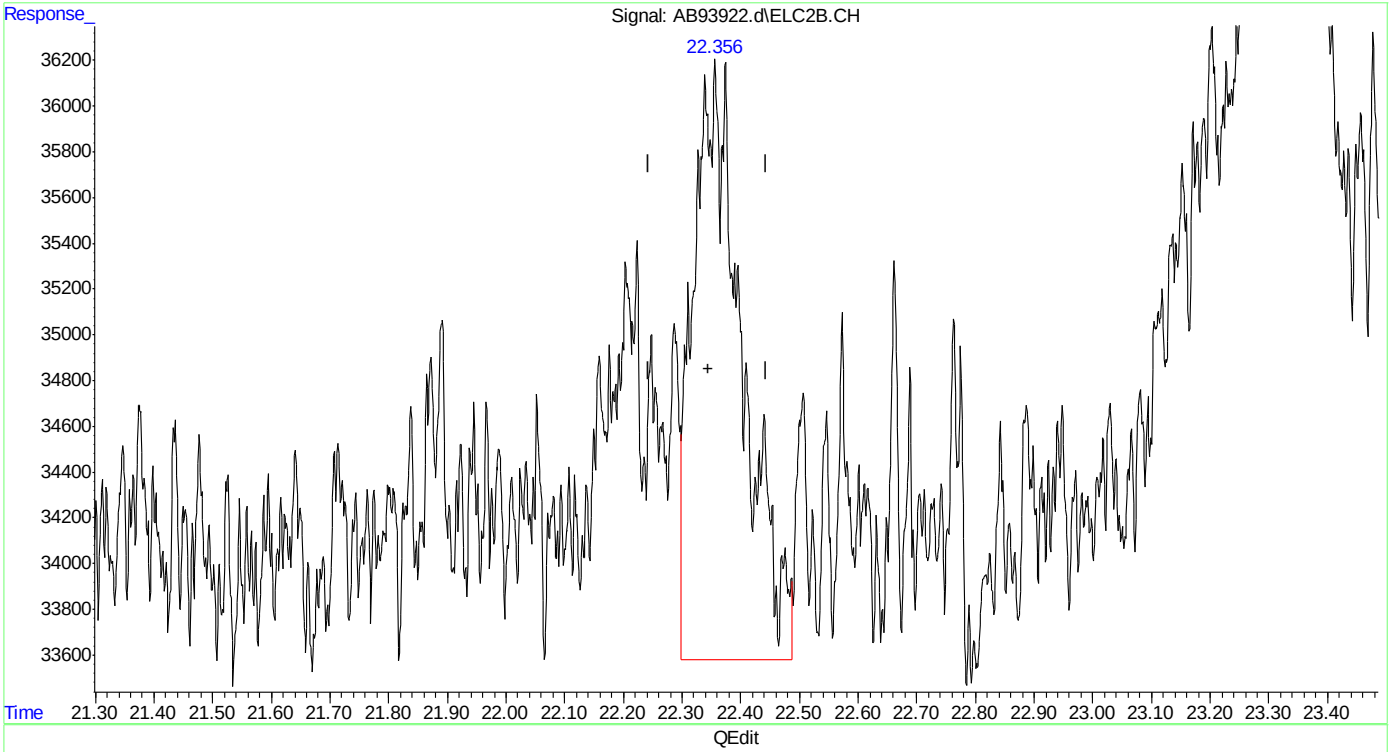
ab160503vph.M Tue May 03 14:57:26 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:12:03
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26206,gab5161,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

22.352min 0.143 ppb

response 151891

(+) = Expected Retention Time

ab160503vph.M Tue May 03 14:57:29 2016

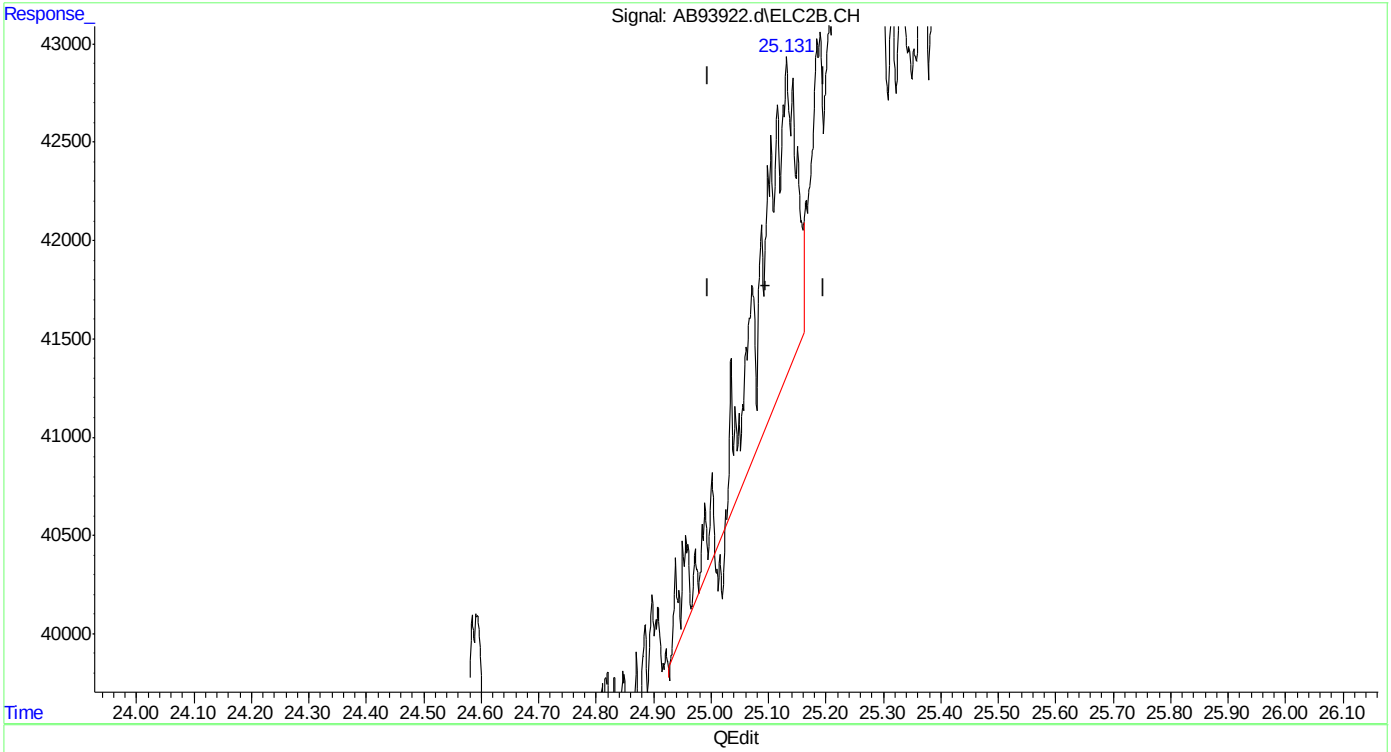
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:12:03
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26206,gab5161,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

25.134min 0.081 ppb

response 77496

(+) = Expected Retention Time

ab160503vph.M Tue May 03 14:57:35 2016

Page: 1

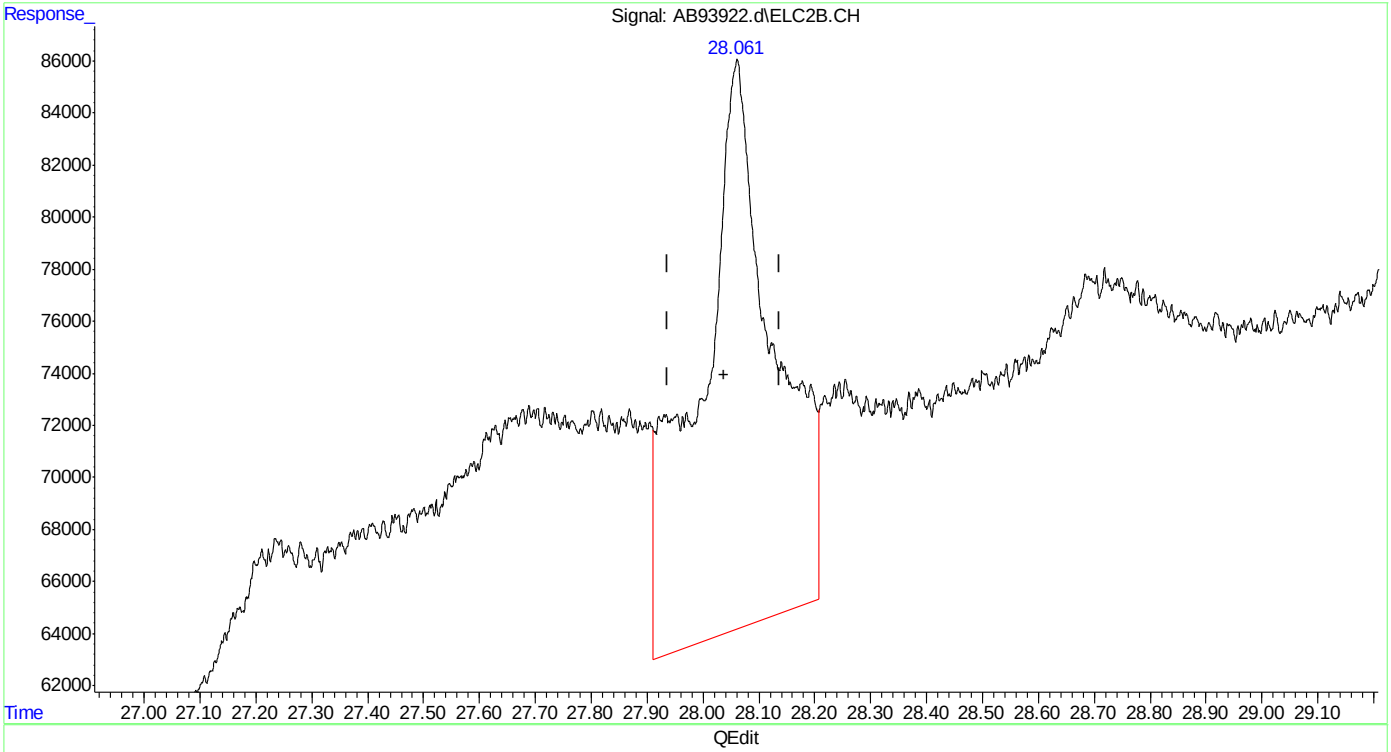
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:12:03
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26206,gab5161,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.060min 2.797 ppb

response 2022048

(+) = Expected Retention Time

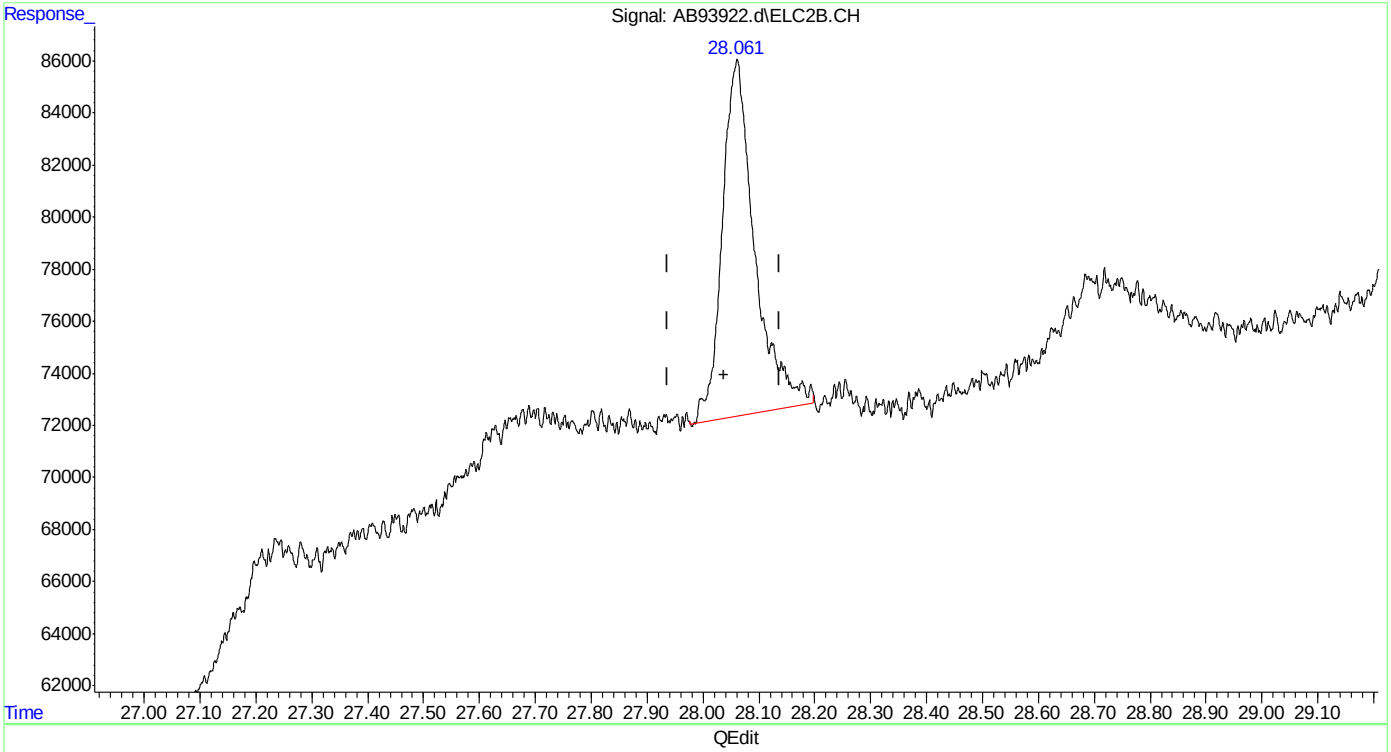
ab160503vph.M Tue May 03 14:57:39 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93922.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:12:03
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26206,gab5161,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:56:52 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.061min 0.763 ppb m

response 551534

(+) = Expected Retention Time

ab160503vph.M Tue May 03 14:57:44 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 13:53:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	27959630	63.525	ppb	
Spiked Amount 50.000		Recovery = 127.05%			
6) s 2,3,4-trifluorotoluene	20.196	24956950	60.878	ppb	
Spiked Amount 50.000		Recovery = 121.76%			
16) s fluorobenzene #2	15.138	53401821	63.404	ppb	
Spiked Amount 50.000		Recovery = 126.81%			
18) s 2,3,4-trifluorotoluen...	20.194	27874324	59.704	ppb	
Spiked Amount 50.000		Recovery = 119.41%			
Target Compounds					
1) h rt5.5-7	6.420	497357	1.239	ppb	m
2) h rt7/10	8.720	295972	0.737	ppb	m
3) h rt10/13	13.870	2030388	5.057	ppb	m
8) h rt20/25	21.870	12274397	19.592	ppb	m
24) naphthalene #2	28.062	508934	0.704	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	24026431	25.079	ppb	m

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

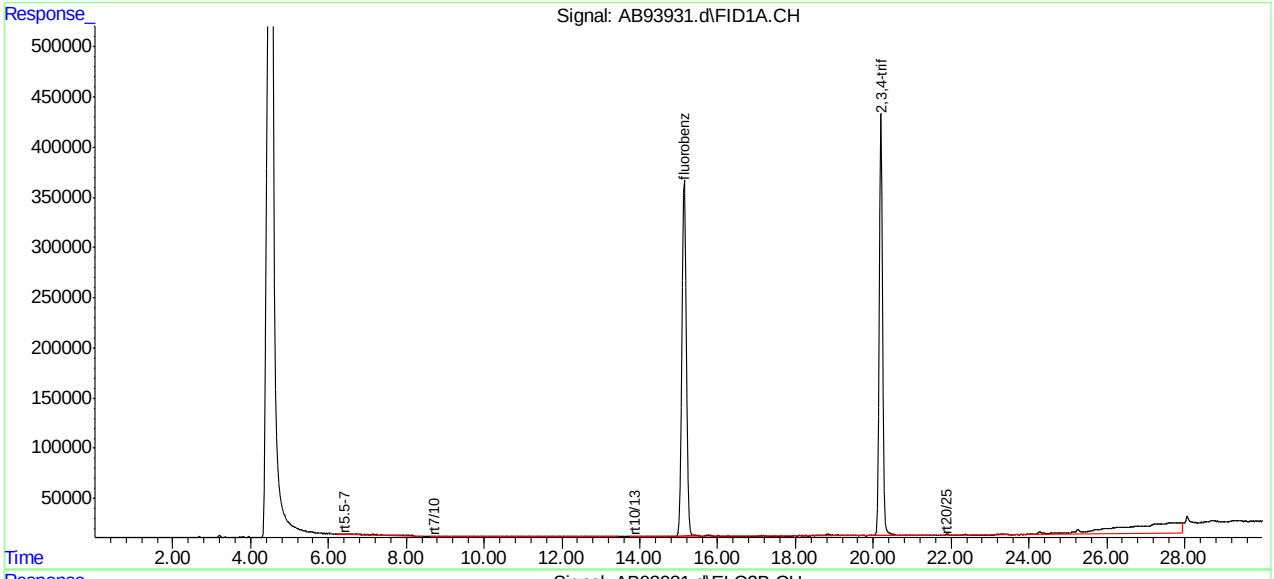
SGS ACCUTEST MC45678

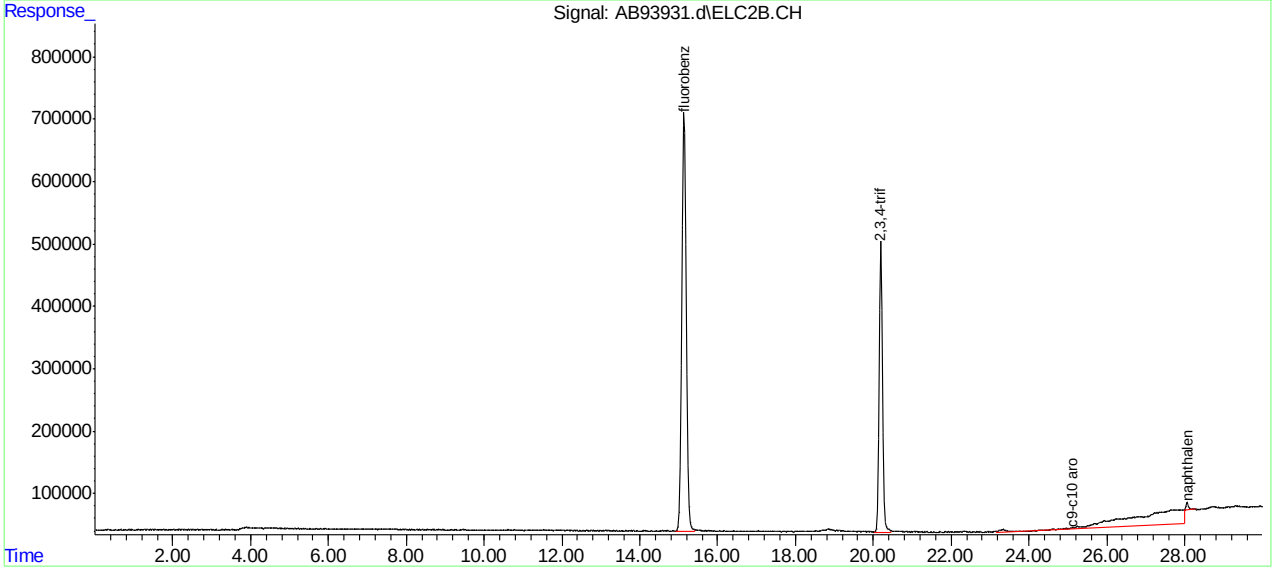
Quantitation Report (QT Reviewed)

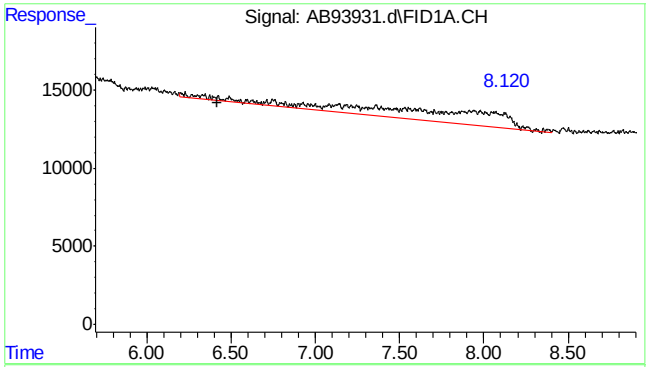
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,100,16,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 13:53:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 :

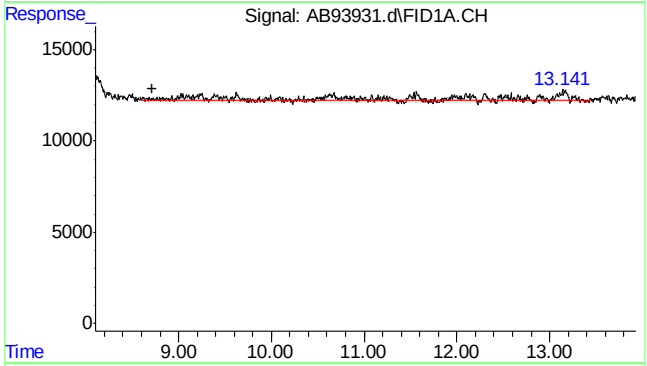






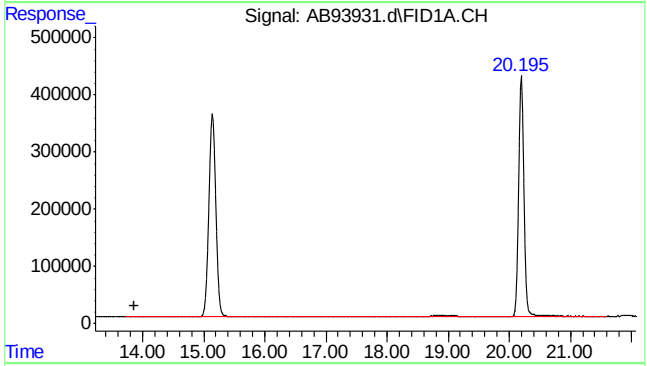
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 497357
Conc: 1.24 ppb m



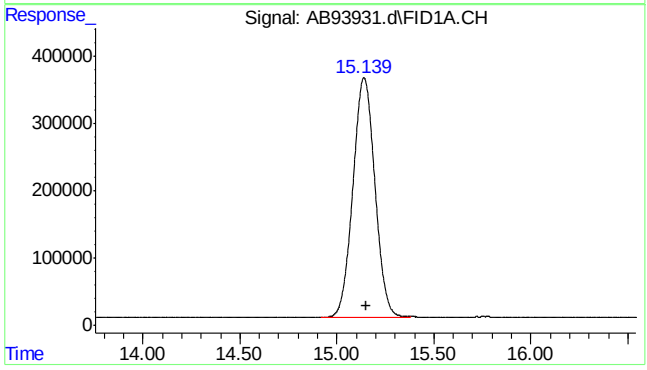
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 295972
Conc: 0.74 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 2030388
Conc: 5.06 ppb m



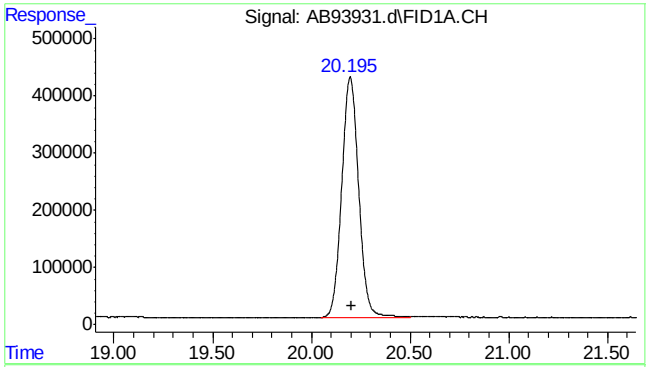
#4 fluorobenzene

R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 27959630
Conc: 63.52 ppb

7.2.2

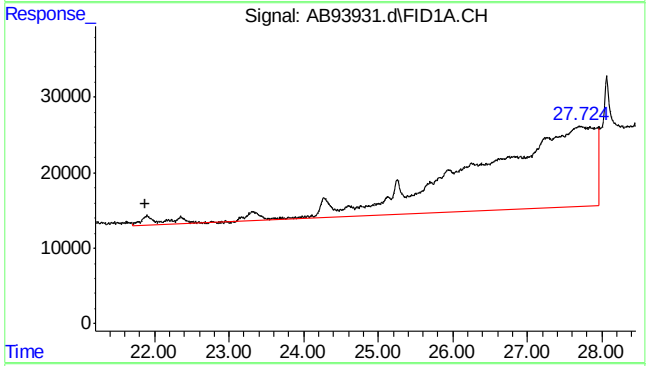
7

SGS ACCUTEST MC45678



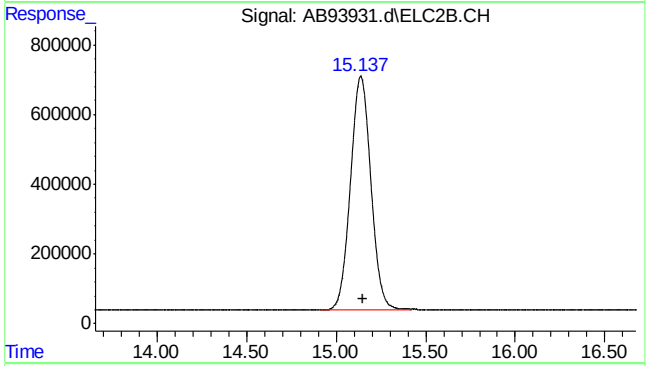
#6 2,3,4-trifluorotoluene

R.T.: 20.196 min
Delta R.T.: -0.009 min
Response: 24956950
Conc: 60.88 ppb



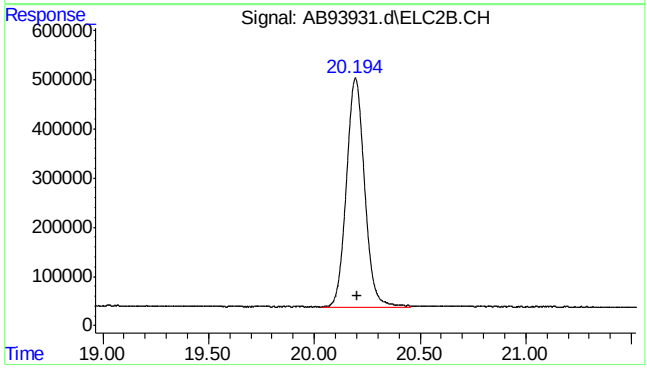
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 12274397
Conc: 19.59 ppb m



#16 fluorobenzene #2

R.T.: 15.138 min
Delta R.T.: -0.010 min
Response: 53401821
Conc: 63.40 ppb



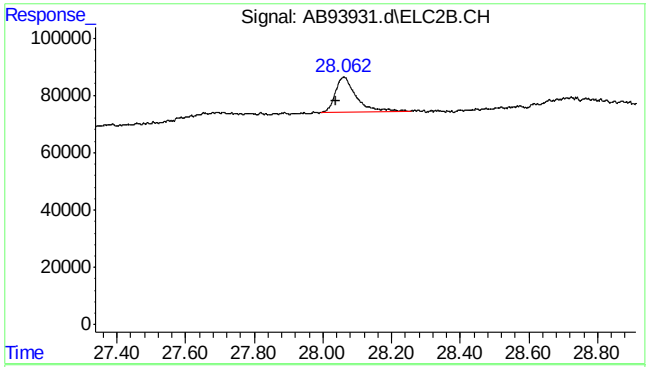
#18 2,3,4-trifluorotoluene #2

R.T.: 20.194 min
Delta R.T.: -0.009 min
Response: 27874324
Conc: 59.70 ppb

7.2.2

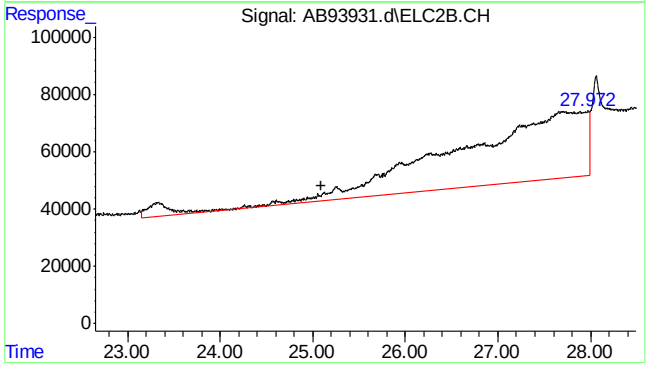
7

SGS ACCUTEST MC45678



#24 naphthalene #2

R.T.: 28.062 min
Delta R.T.: 0.024 min
Response: 508934
Conc: 0.70 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 24026431
Conc: 25.08 ppb m

7.2.2

7

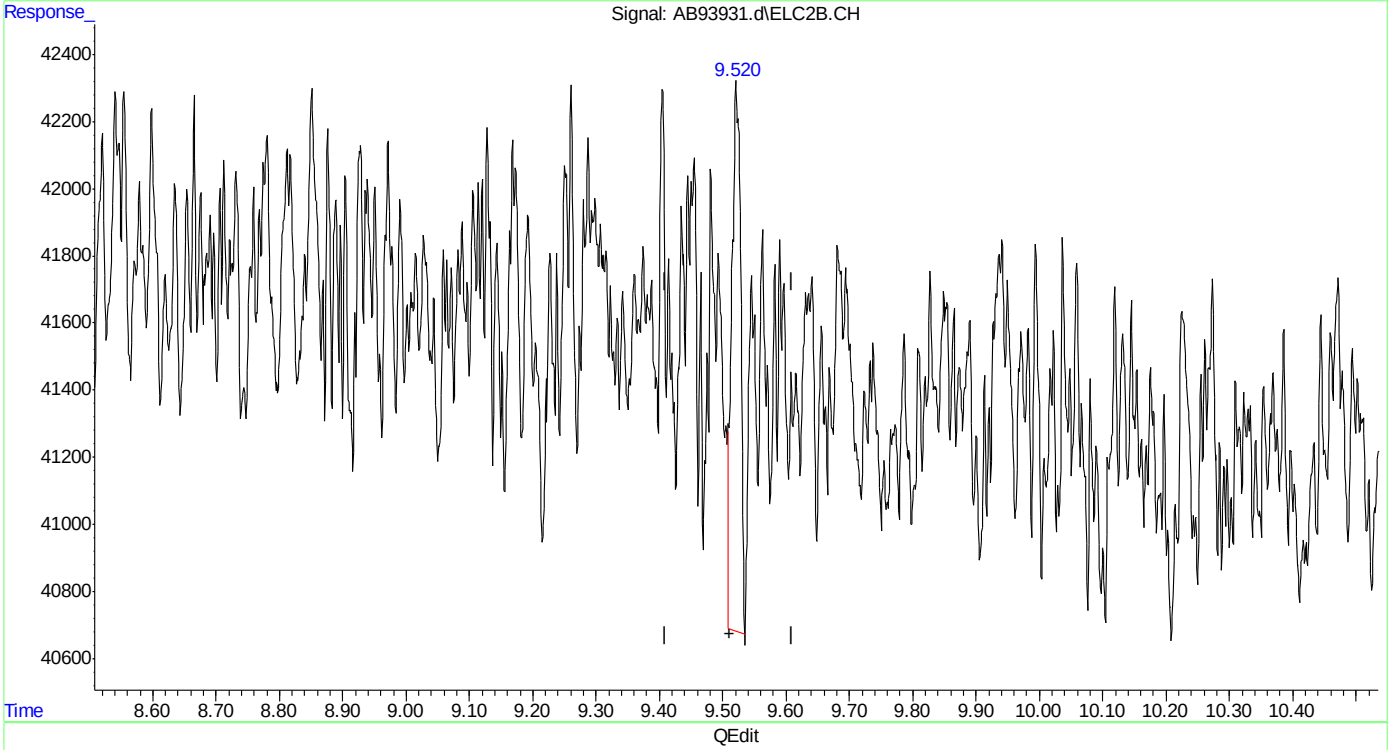
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
9.522min 0.033 ppb
response 16476

(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:16:20 2016

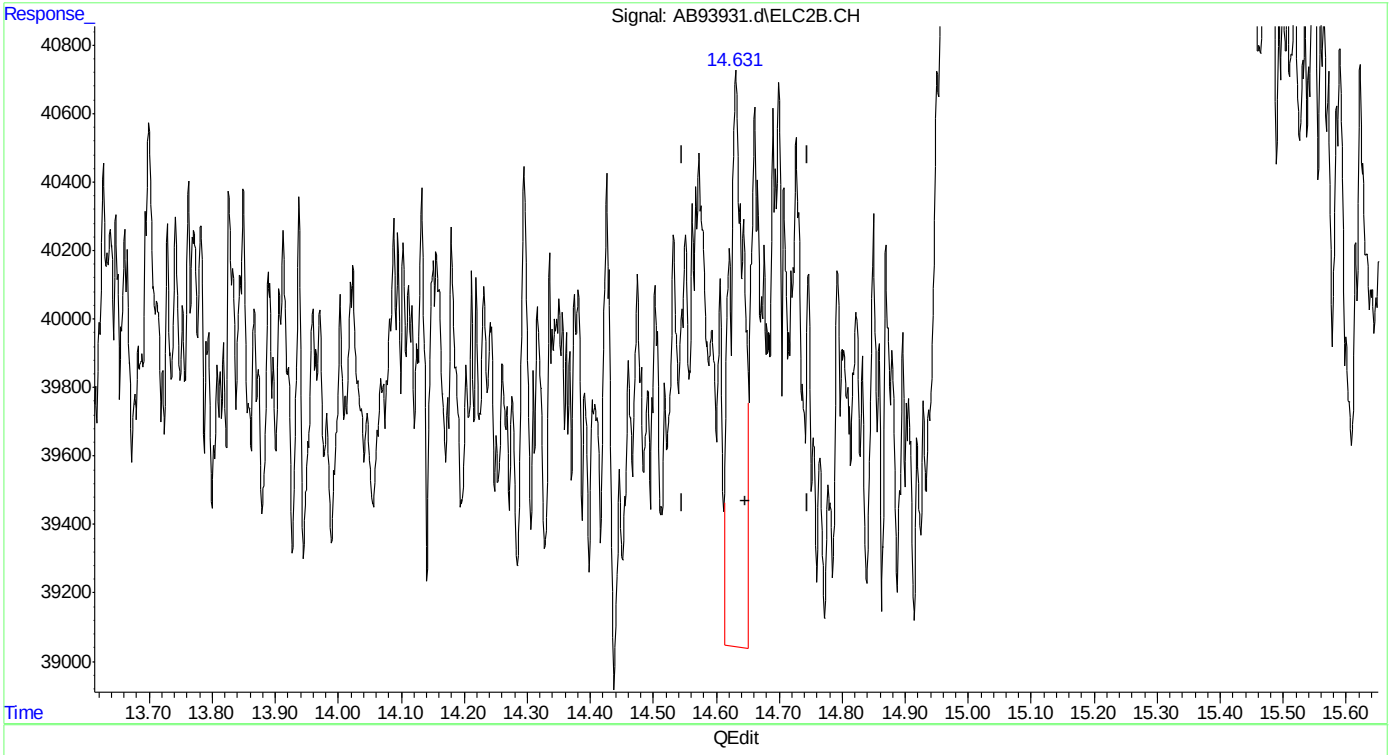
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 08:43:09
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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

14.632min 0.020 ppb

response 25905

(+) = Expected Retention Time

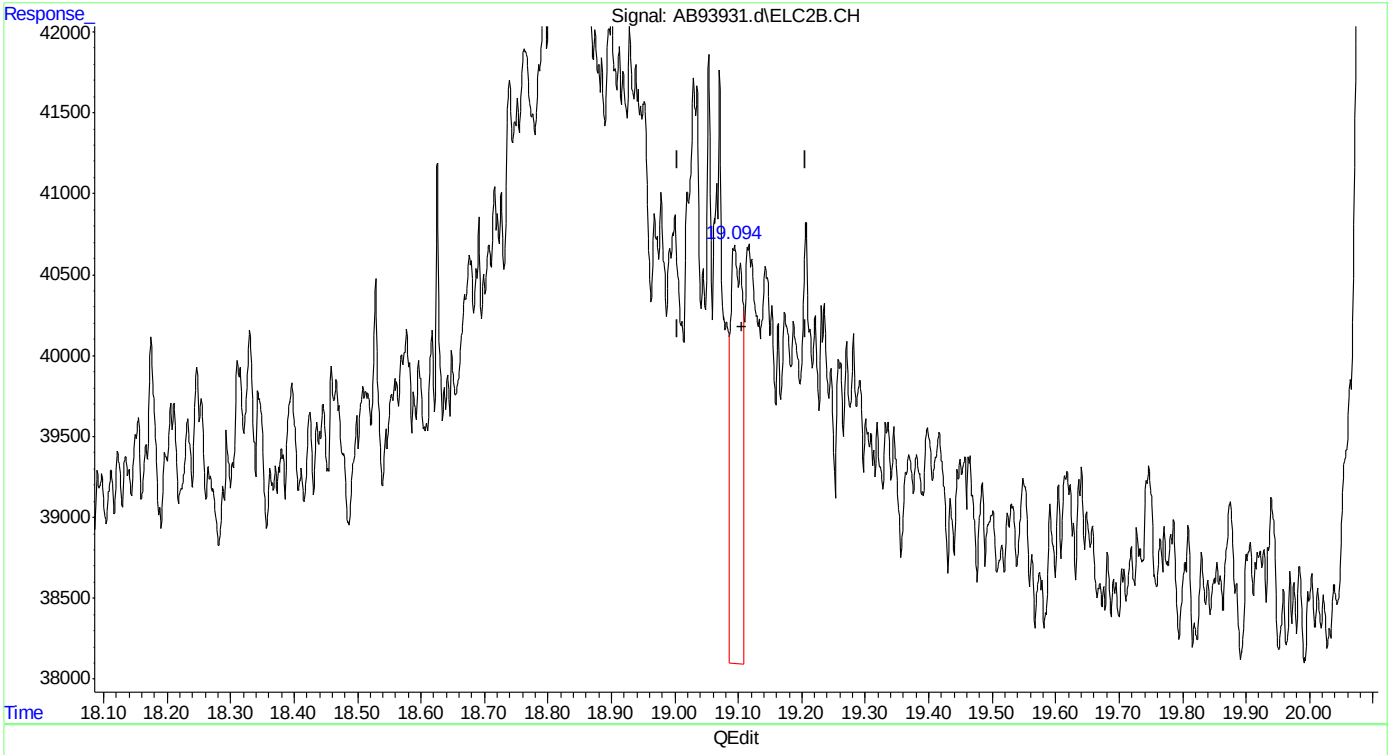
ab160504vph.M Wed May 04 09:16:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
19.095min 0.029 ppb
response 33318

(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:16:28 2016

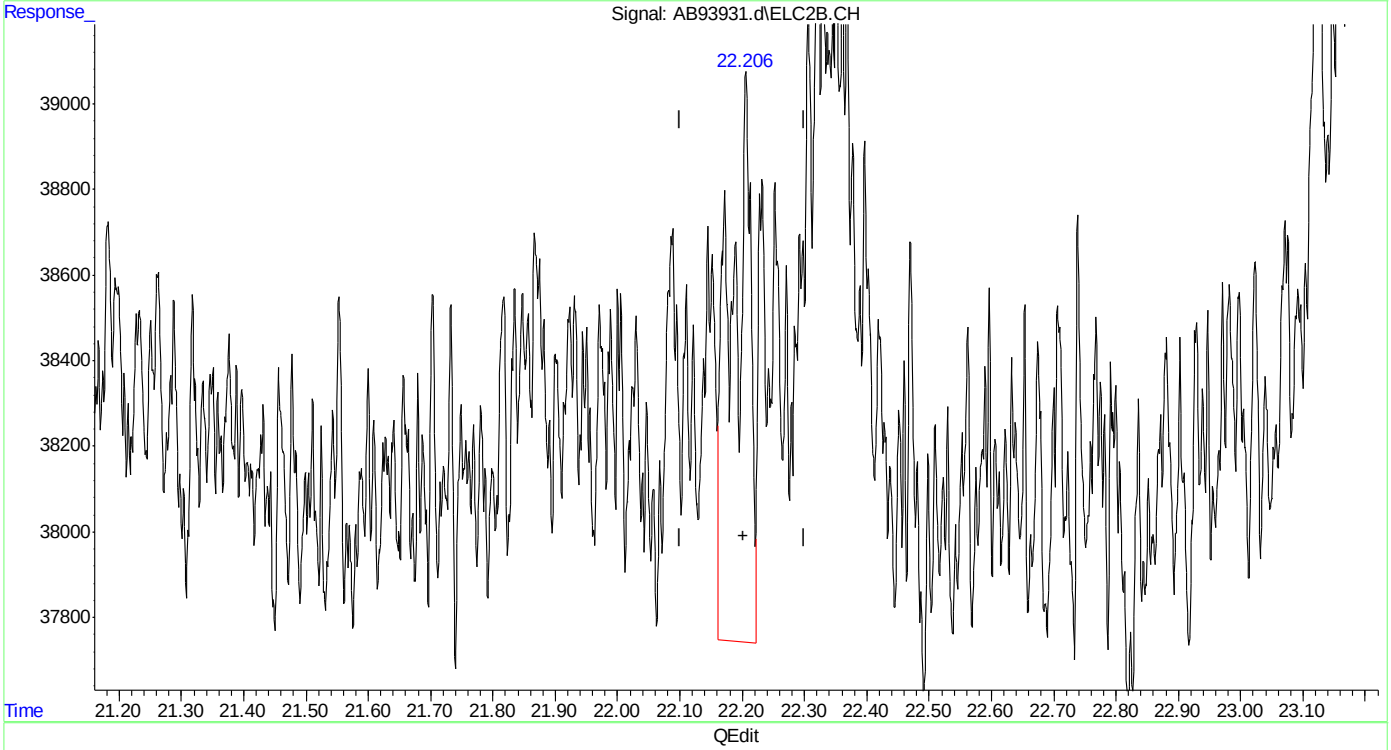
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
22.207min 0.032 ppb
response 29525

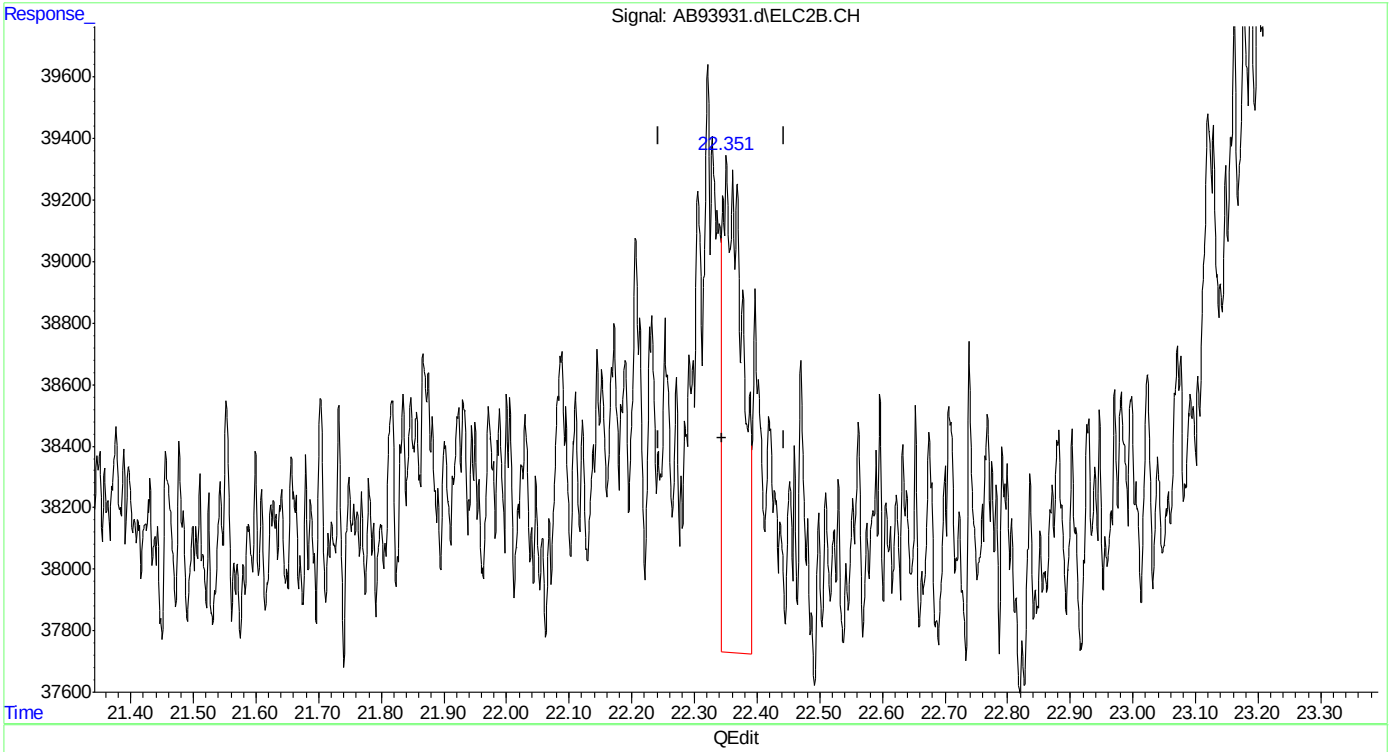
(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:16:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
22.351min 0.034 ppb
response 36010

(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:16:38 2016

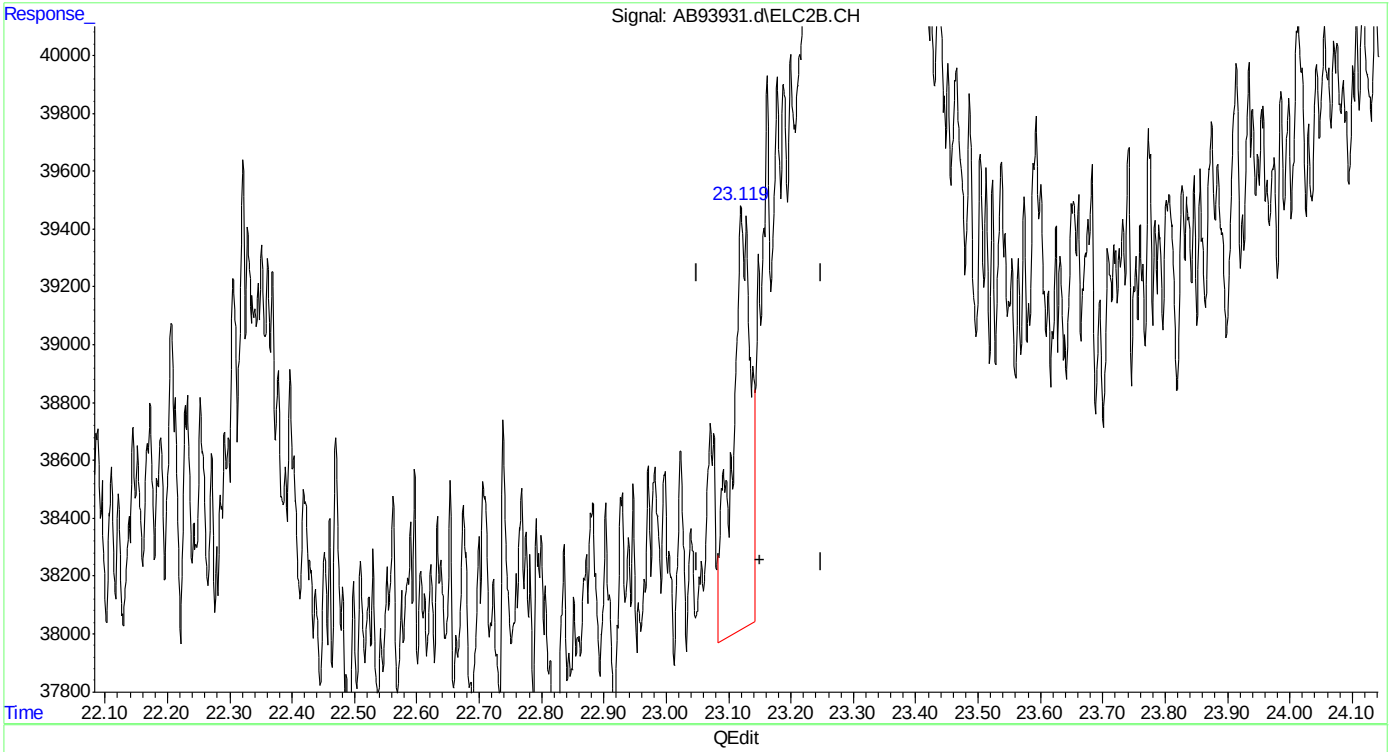
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
23.122min 0.031 ppb
response 29406

(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:16:42 2016

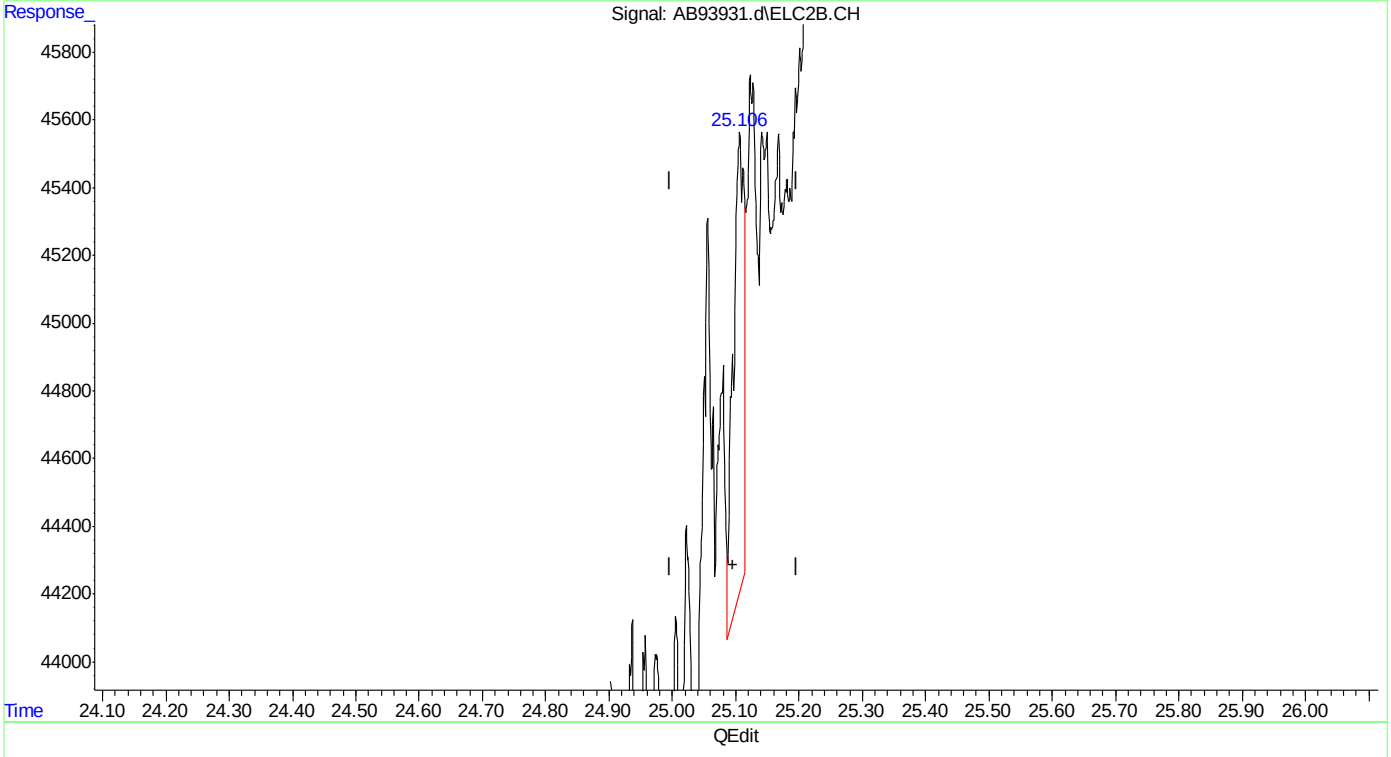
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
25.107min 0.016 ppb
response 15688

(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:16:47 2016

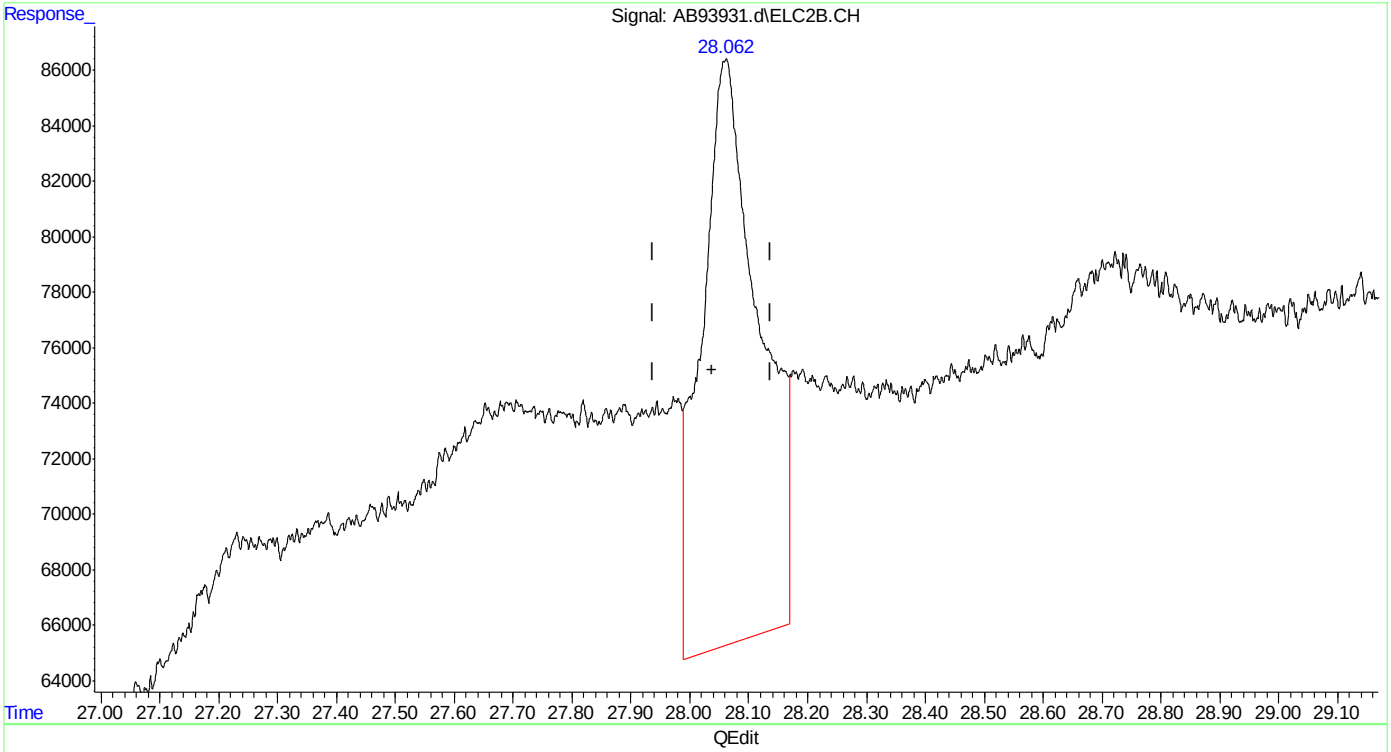
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 08:43:09
Operator  : tonyf
Sample    : mb,s,vmavph,16
Misc      : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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

28.061min 1.994 ppb

response 1441133

(+) = Expected Retention Time

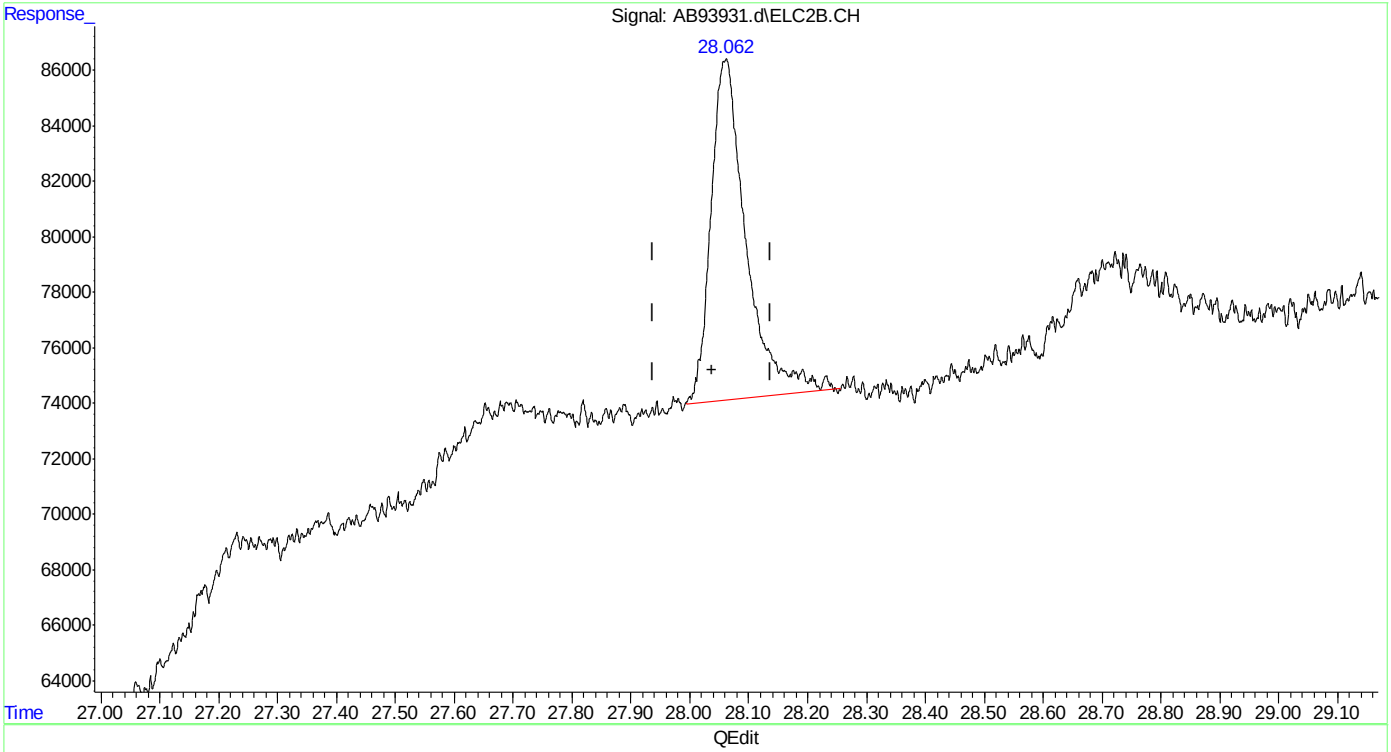
ab160504vph.M Wed May 04 09:16:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93931.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:43:09
Operator : tonyf
Sample : mb,s,vmavph,16
Misc : gc26207,gab5162,16,,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 04 09:15:50 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
28.062min 0.704 ppb m
response 508934

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93923.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:49:39
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:54:32 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.143	21395110	48.610	ppb	
Spiked Amount 50.000		Recovery =	97.22%		
6) s 2,3,4-trifluorotoluene	20.199	19254865	46.969	ppb	
Spiked Amount 50.000		Recovery =	93.94%		
16) s fluorobenzene #2	15.141	41137811	48.843	ppb	
Spiked Amount 50.000		Recovery =	97.69%		
18) s 2,3,4-trifluorotoluen...	20.196	21491395	46.032	ppb	
Spiked Amount 50.000		Recovery =	92.06%		
Target Compounds					
1) h rt5.5-7	6.420	15560443	38.755	ppb	m
2) h rt7/10	8.720	18475140	46.014	ppb	m
3) h rt10/13	13.870	21518326	53.594	ppb	m
8) h rt20/25	21.870	26616992	42.485	ppb	m
10) h decane	24.200	26576706	42.421	ppb	
11) h butylcyclohexane	25.240	29173475	46.566	ppb	
14) mtbe #2	9.508	25252988	50.060	ppb	m
15) benzene #2	14.640	63498942	48.783	ppb	
17) toluene #2	19.099	54682794	47.830	ppb	
19) ethylbenzene #2	22.195	44897984	48.494	ppb	
20) m,p-xylene #2	22.338	107536057	101.380	ppb	
21) o-xylene #2	23.144	44789069	47.947	ppb	
22) t 1,3,5-trimethylbenzen...	24.575	58499839	44.776	ppb	
23) 1,2,4-trimethylbenzen...	25.093	45019720	47.041	ppb	
24) naphthalene #2	28.038	31956026	44.205	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45066312	47.040	ppb	m

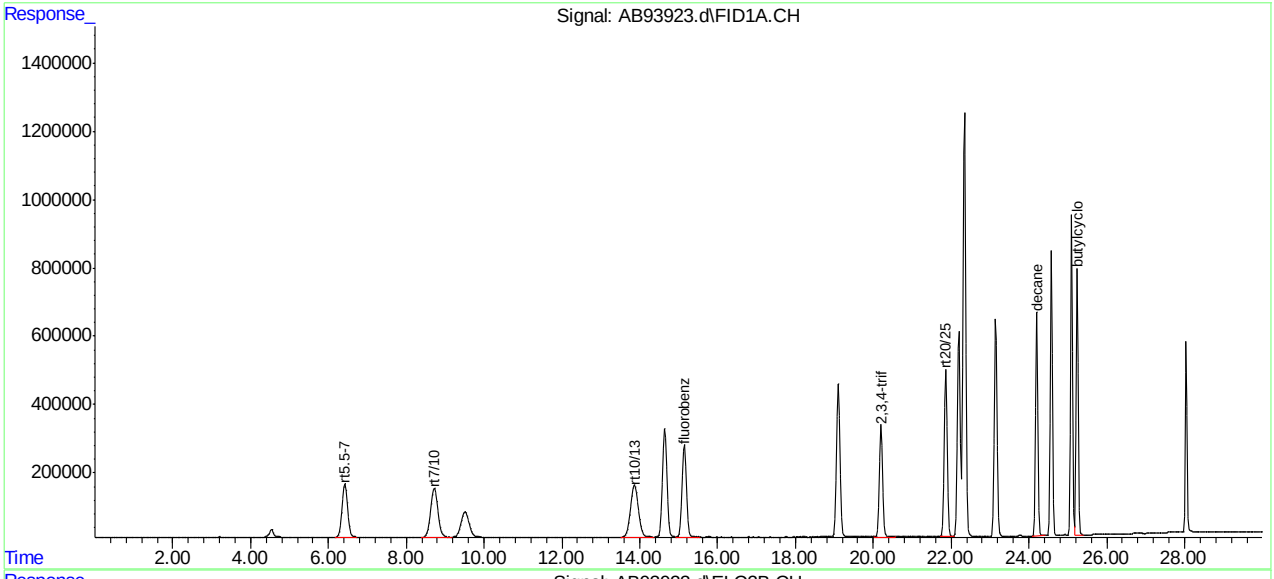
(f)=RT Delta > 1/2 Window (m)=manual int.

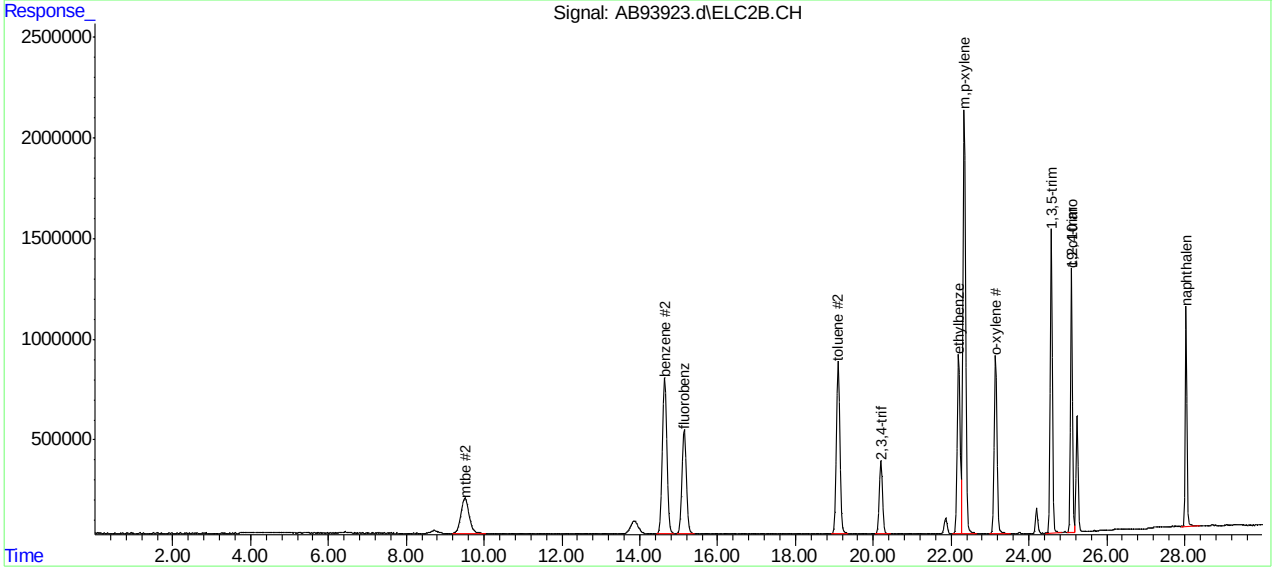
Quantitation Report (QT Reviewed)

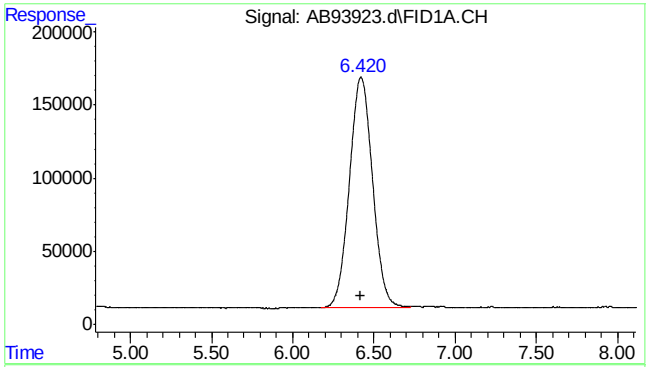
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93923.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:49:39
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 06:54:32 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 :

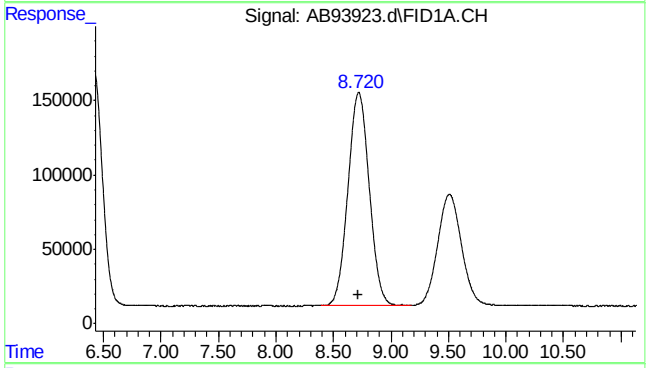






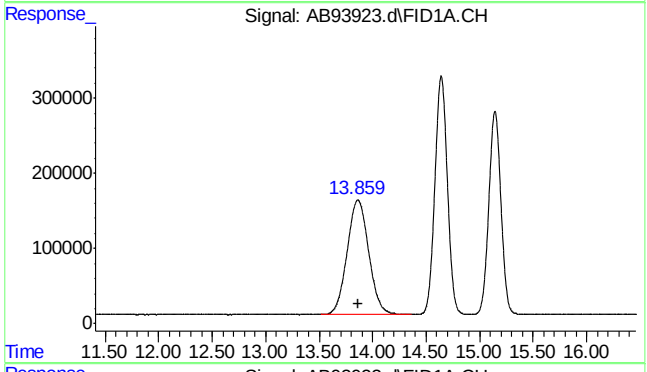
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15560443
Conc: 38.75 ppb m



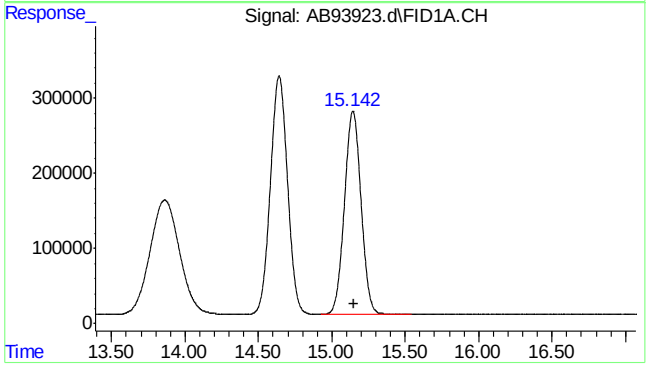
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18475140
Conc: 46.01 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21518326
Conc: 53.59 ppb m



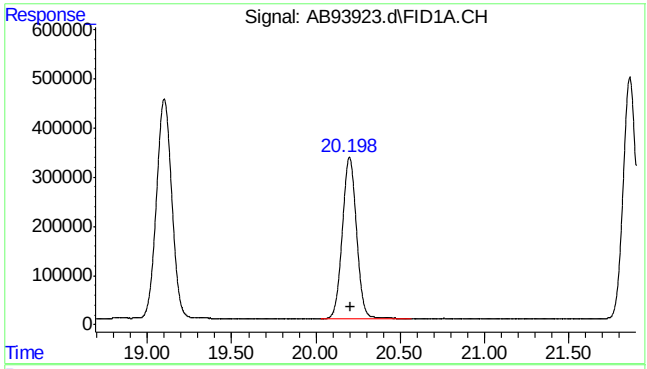
#4 fluorobenzene

R.T.: 15.143 min
Delta R.T.: -0.008 min
Response: 21395110
Conc: 48.61 ppb

7.3.1

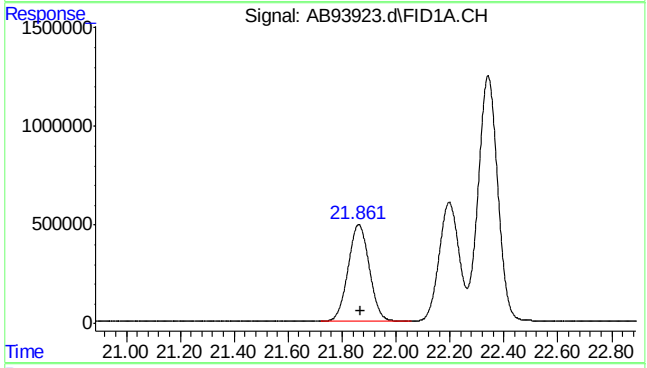
7

SGS ACCUTEST MC45678



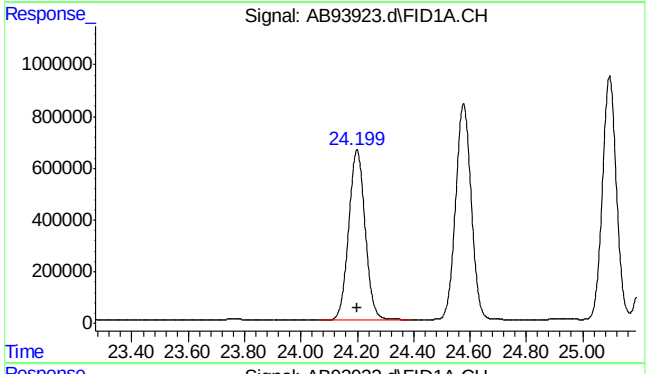
#6 2,3,4-trifluorotoluene

R.T.: 20.199 min
Delta R.T.: -0.007 min
Response: 19254865
Conc: 46.97 ppb



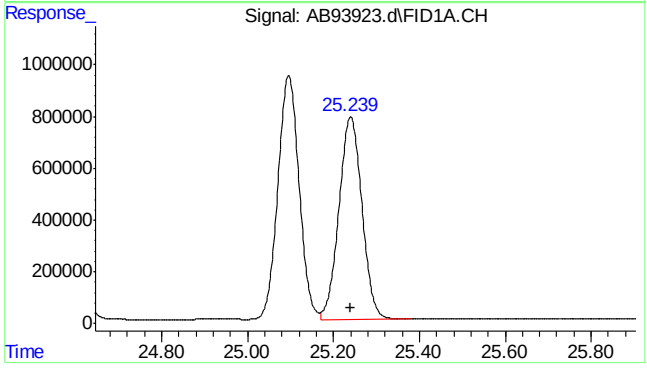
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26616992
Conc: 42.48 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26576706
Conc: 42.42 ppb



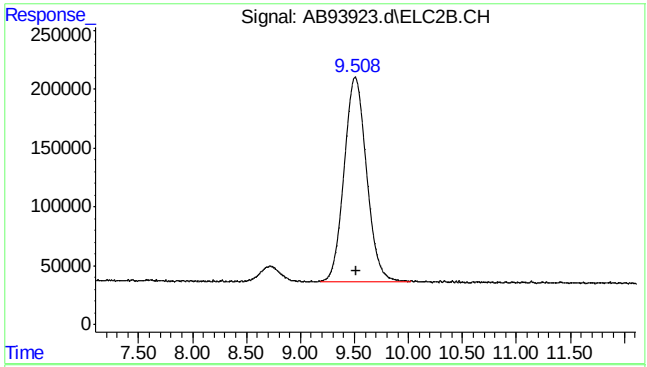
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29173475
Conc: 46.57 ppb

7.3.1

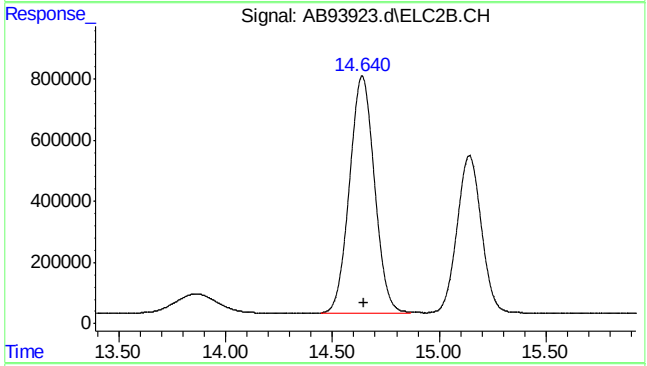
7

SGS ACCUTEST MC45678



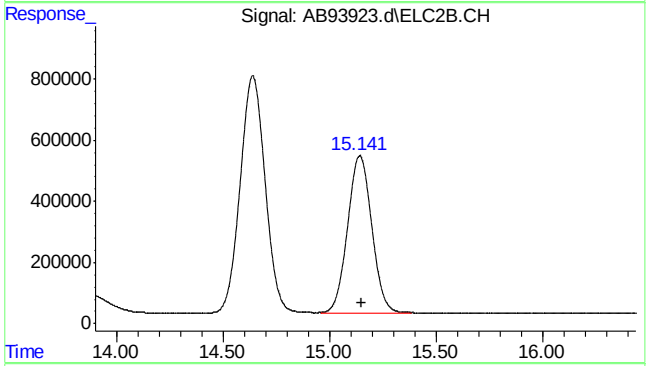
#14 mtbe #2

R.T.: 9.508 min
Delta R.T.: -0.003 min
Response: 25252988
Conc: 50.06 ppb m



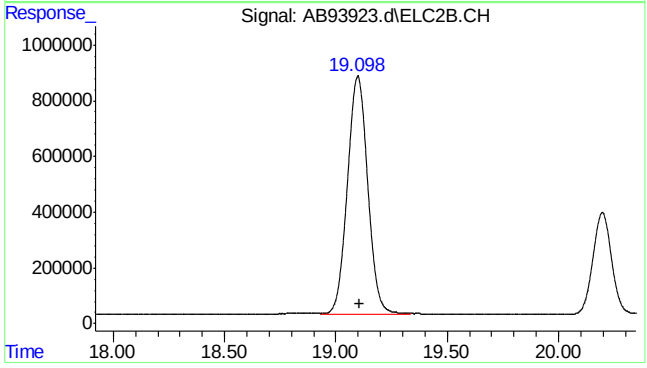
#15 benzene #2

R.T.: 14.640 min
Delta R.T.: -0.006 min
Response: 63498942
Conc: 48.78 ppb



#16 fluorobenzene #2

R.T.: 15.141 min
Delta R.T.: -0.007 min
Response: 41137811
Conc: 48.84 ppb



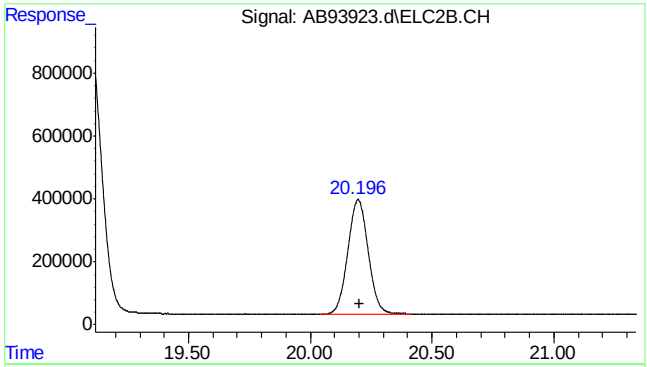
#17 toluene #2

R.T.: 19.099 min
Delta R.T.: -0.007 min
Response: 54682794
Conc: 47.83 ppb

7.3.1

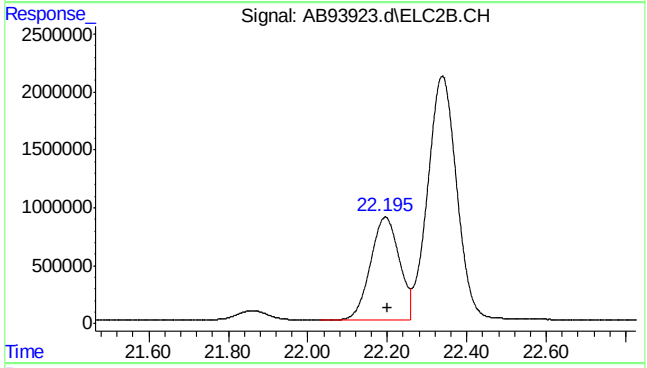
7

SGS ACCUTEST MC45678



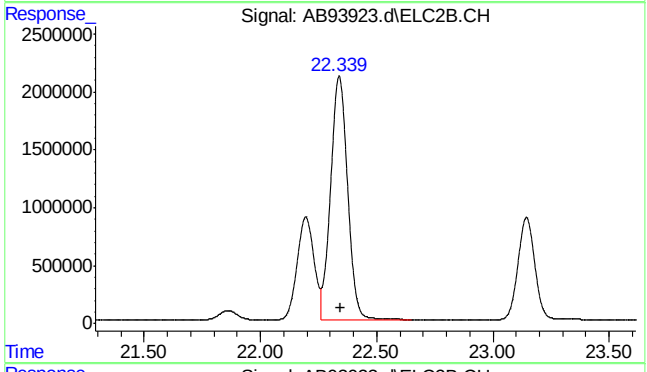
#18 2,3,4-trifluorotoluene #2

R.T.: 20.196 min
Delta R.T.: -0.007 min
Response: 21491395
Conc: 46.03 ppb



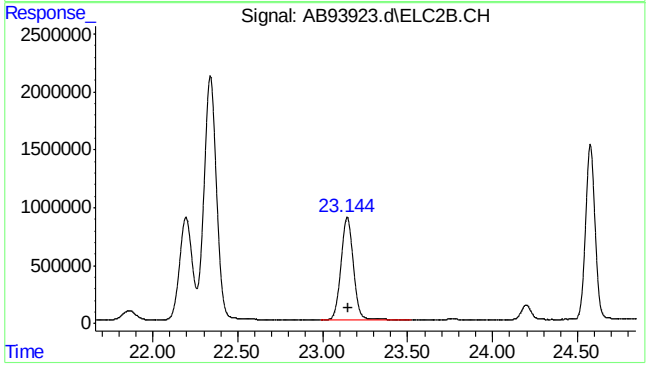
#19 ethylbenzene #2

R.T.: 22.195 min
Delta R.T.: -0.006 min
Response: 44897984
Conc: 48.49 ppb



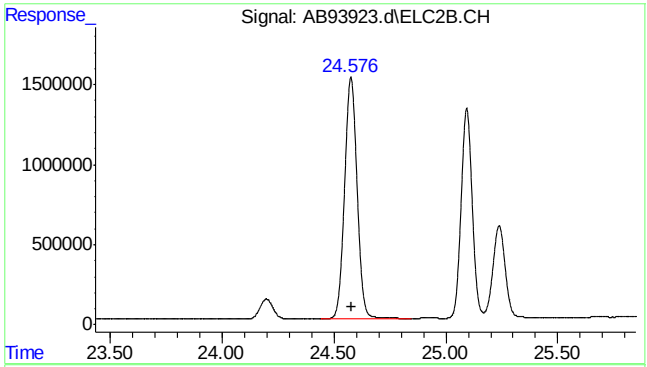
#20 m,p-xylene #2

R.T.: 22.338 min
Delta R.T.: -0.006 min
Response: 107536057
Conc: 101.38 ppb



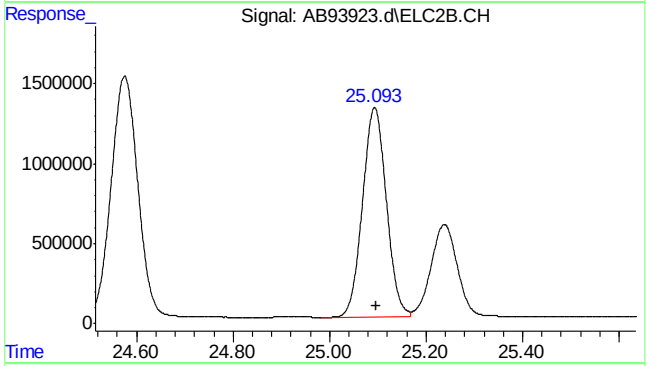
#21 o-xylene #2

R.T.: 23.144 min
Delta R.T.: -0.006 min
Response: 44789069
Conc: 47.95 ppb



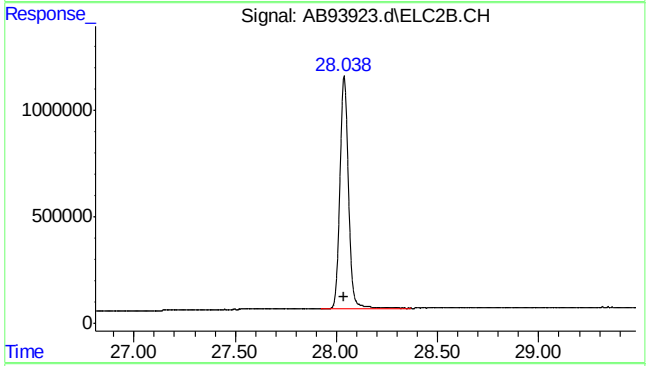
#22 1,3,5-trimethylbenzene #2

R.T.: 24.575 min
Delta R.T.: -0.004 min
Response: 58499839
Conc: 44.78 ppb



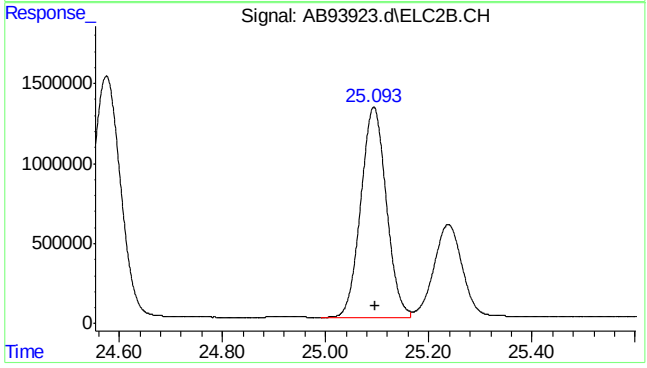
#23 1,2,4-trimethylbenzene #2

R.T.: 25.093 min
Delta R.T.: -0.003 min
Response: 45019720
Conc: 47.04 ppb



#24 naphthalene #2

R.T.: 28.038 min
Delta R.T.: 0.000 min
Response: 31956026
Conc: 44.20 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45066312
Conc: 47.04 ppb m

7.3.1

7

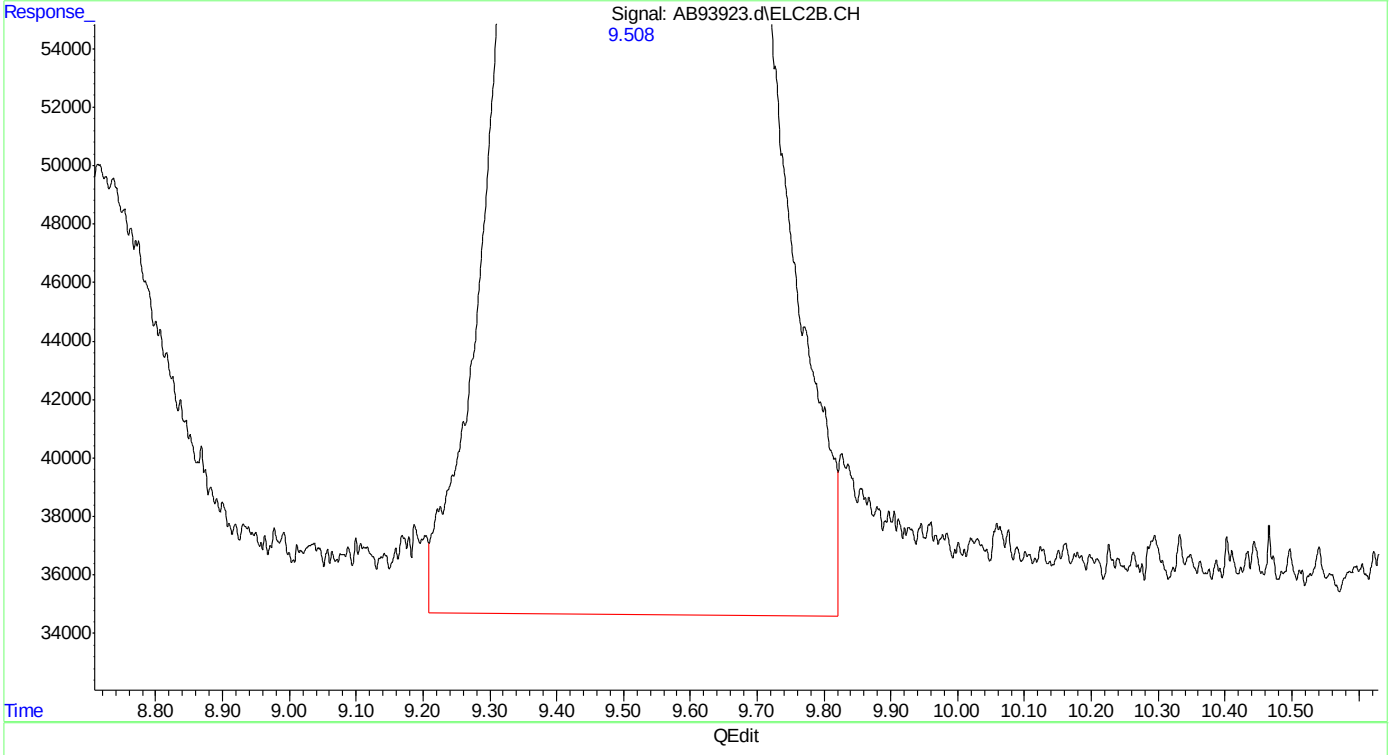
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93923.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 14:49:39
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:38 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.849 ppb
response 25650702

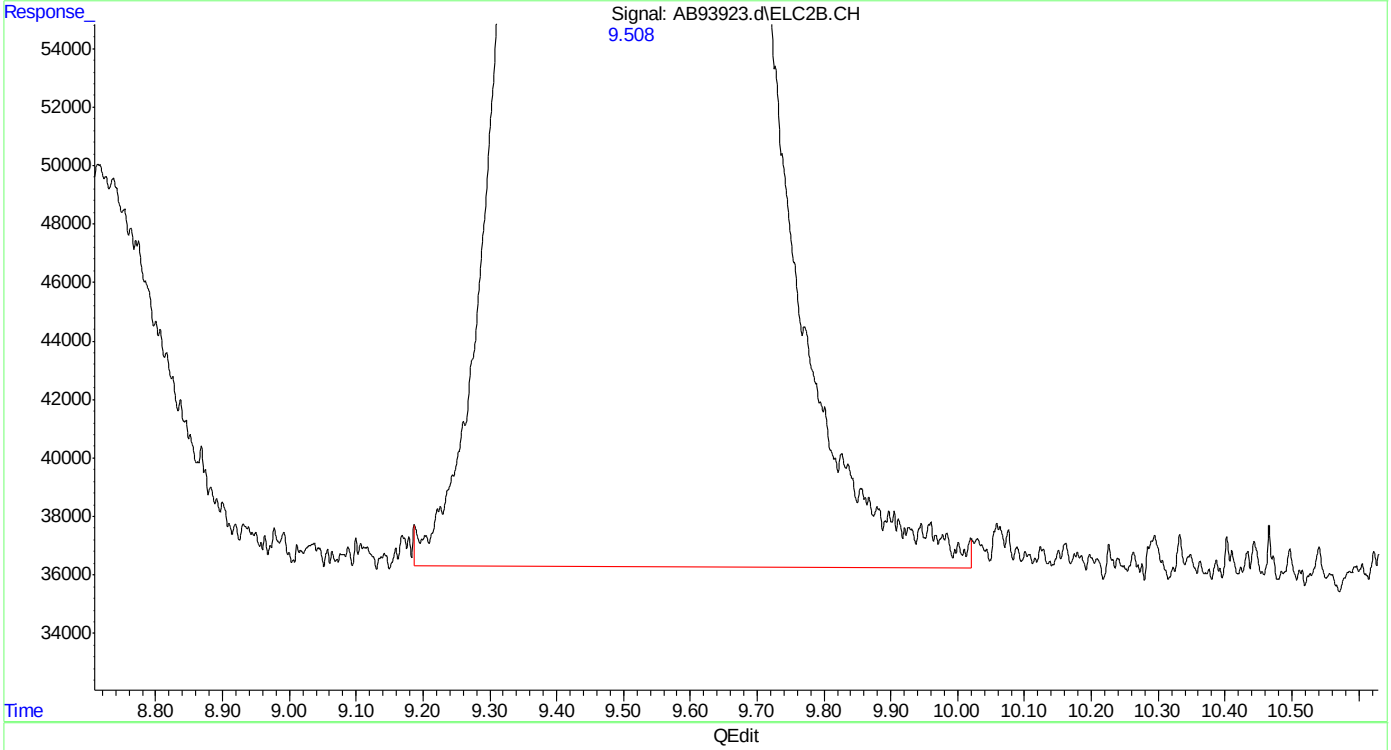
(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:54:10 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93923.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:49:39
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26206,gab5161,,,,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 04 06:45:38 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.060 ppb m

response 25252988

(+) = Expected Retention Time

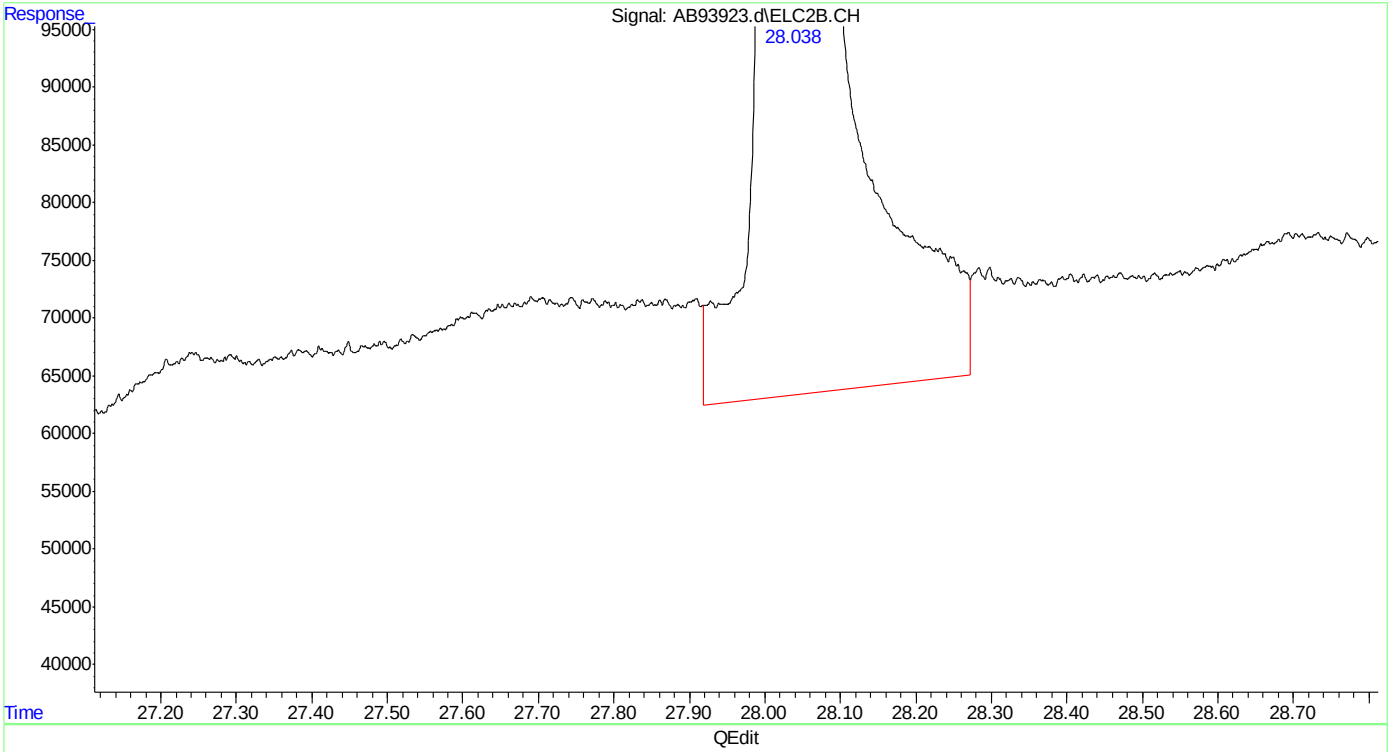
ab160503vph.M Wed May 04 06:54:15 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93923.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:49:39
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26206,gab5161,,,,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 04 06:45:38 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.038min 46.458 ppb

response 33584946

(+) = Expected Retention Time

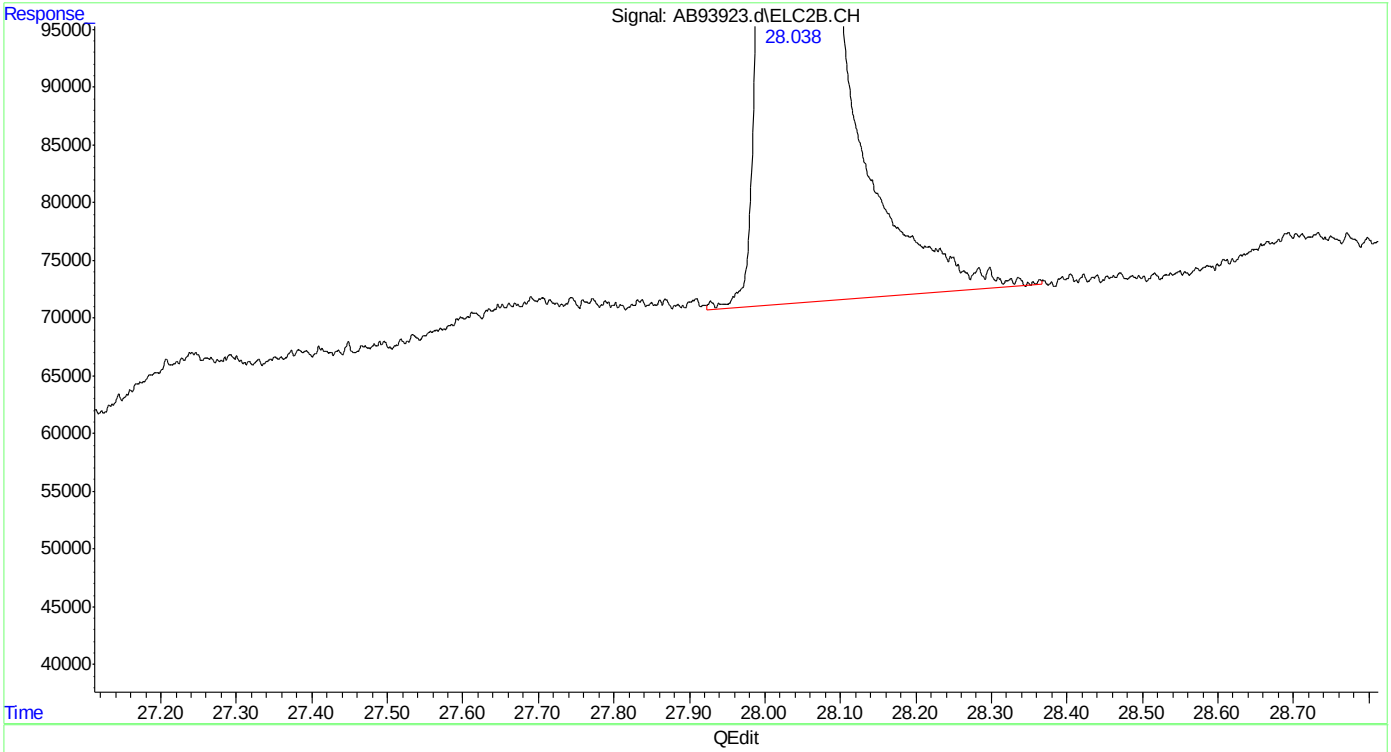
ab160503vph.M Wed May 04 06:54:22 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93923.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 14:49:39
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26206,gab5161,,,,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 04 06:45:38 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.038min 44.205 ppb m

response 31956026

(+) = Expected Retention Time

ab160503vph.M Wed May 04 06:54:27 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93924.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 15:27:32
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:55:29 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	21413989	48.653 ppb	
Spiked Amount 50.000		Recovery	= 97.31%	
6) s 2,3,4-trifluorotoluene	20.197	19208626	46.856 ppb	
Spiked Amount 50.000		Recovery	= 93.71%	
16) s fluorobenzene #2	15.139	41076081	48.770 ppb	
Spiked Amount 50.000		Recovery	= 97.54%	
18) s 2,3,4-trifluorotoluen...	20.195	21463093	45.972 ppb	
Spiked Amount 50.000		Recovery	= 91.94%	
Target Compounds				
1) h rt5.5-7	6.420	15741228	39.205 ppb	m
2) h rt7/10	8.720	18573888	46.260 ppb	m
3) h rt10/13	13.870	21674005	53.981 ppb	m
8) h rt20/25	21.870	26530145	42.346 ppb	m
10) h decane	24.200	26548821	42.376 ppb	
11) h butylcyclohexane	25.240	29186915	46.587 ppb	
14) mtbe #2	9.504	25173296	49.902 ppb	m
15) benzene #2	14.636	63298246	48.629 ppb	
17) toluene #2	19.096	54390996	47.574 ppb	
19) ethylbenzene #2	22.194	44535710	48.102 ppb	
20) m,p-xylene #2	22.337	106984381	100.860 ppb	
21) o-xylene #2	23.142	44572232	47.715 ppb	
22) t 1,3,5-trimethylbenzen...	24.574	58930062	45.105 ppb	
23) 1,2,4-trimethylbenzen...	25.093	45246700	47.278 ppb	
24) naphthalene #2	28.037	31938734	44.181 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44812527	46.775 ppb	m

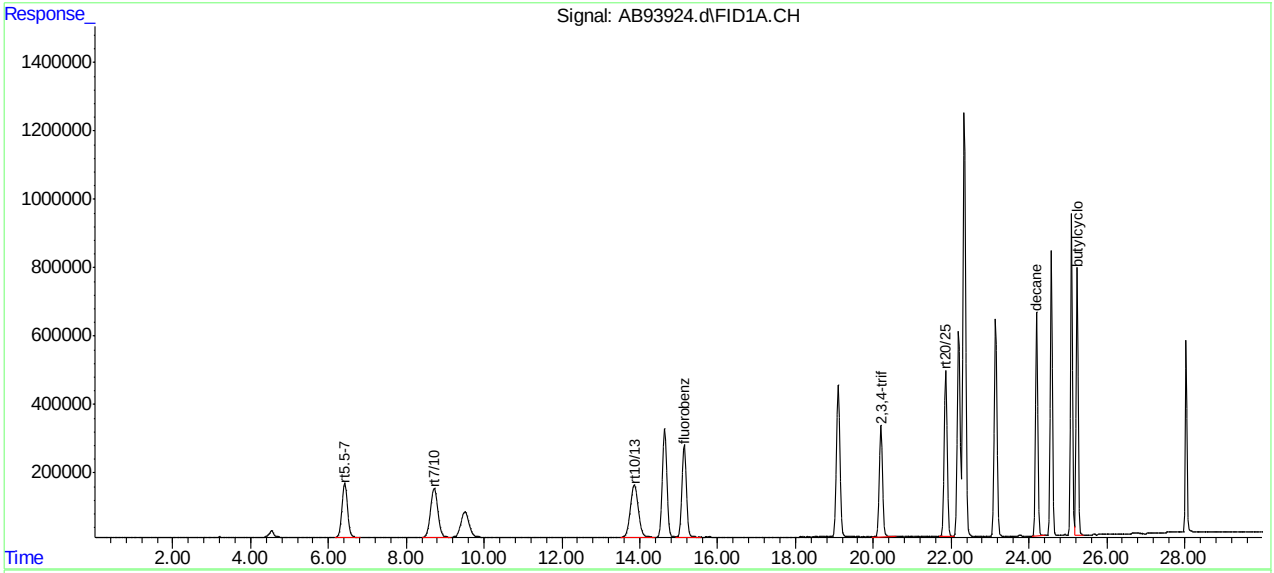
(f)=RT Delta > 1/2 Window (m)=manual int.

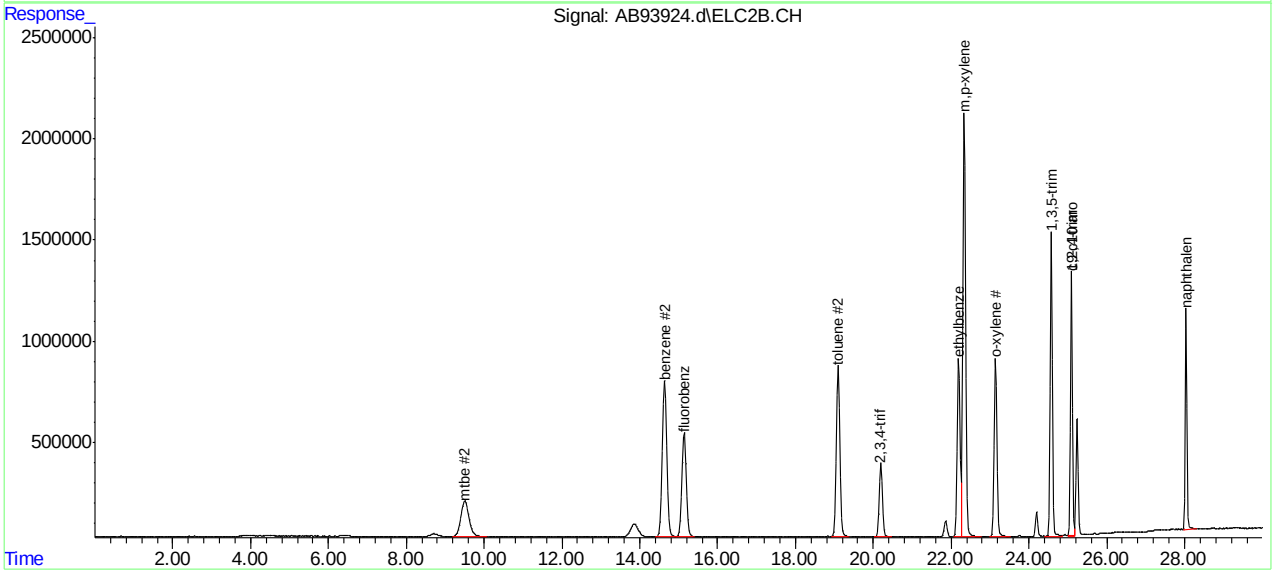
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93924.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 15:27:32
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:55:29 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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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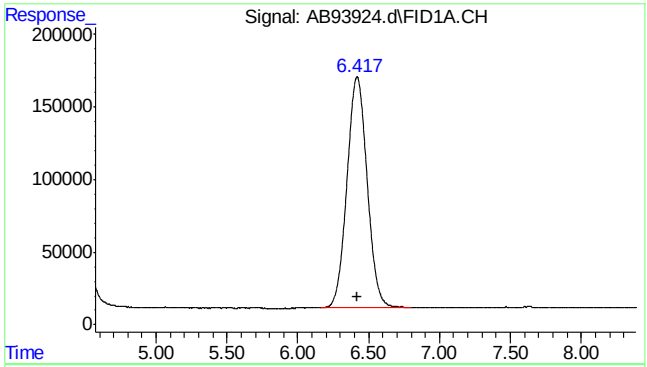
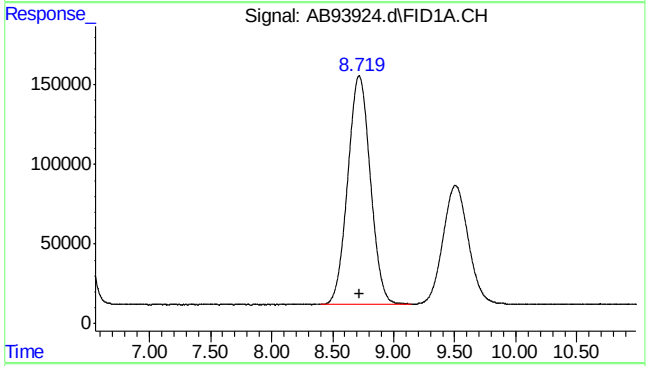


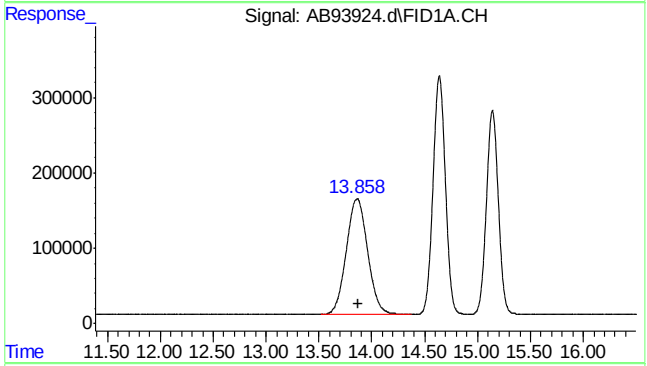
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15741228
Conc: 39.21 ppb m



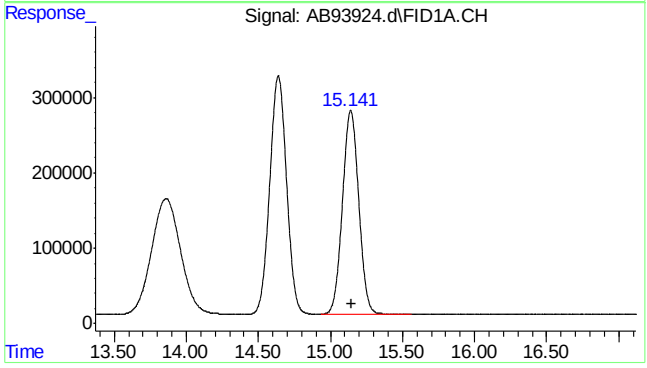
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18573888
Conc: 46.26 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21674005
Conc: 53.98 ppb m



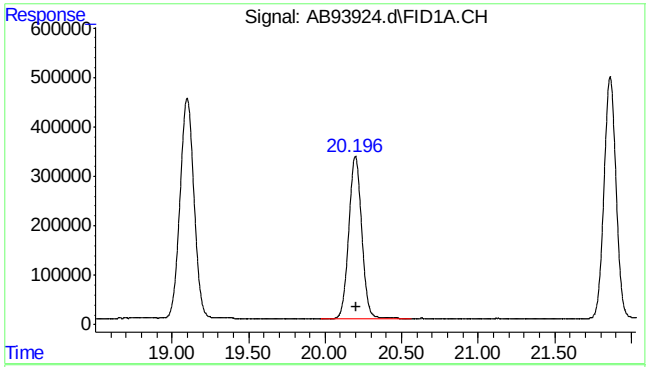
#4 fluorobenzene

R.T.: 15.141 min
Delta R.T.: -0.010 min
Response: 21413989
Conc: 48.65 ppb

7.3.2

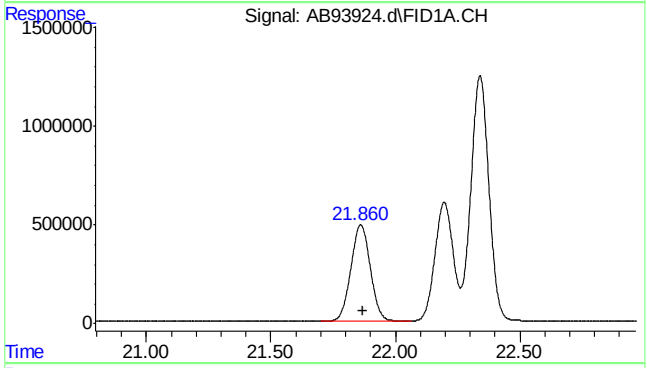
7

SGS ACCUTEST MC45678



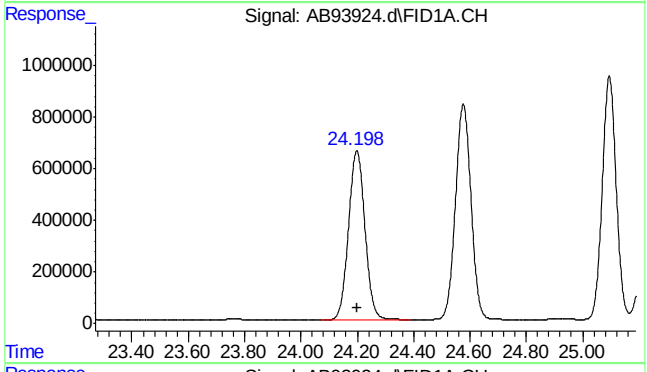
#6 2,3,4-trifluorotoluene

R.T.: 20.197 min
Delta R.T.: -0.008 min
Response: 19208626
Conc: 46.86 ppb



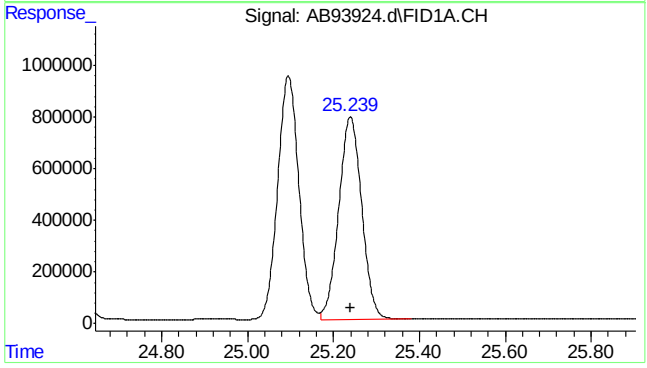
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26530145
Conc: 42.35 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 26548821
Conc: 42.38 ppb



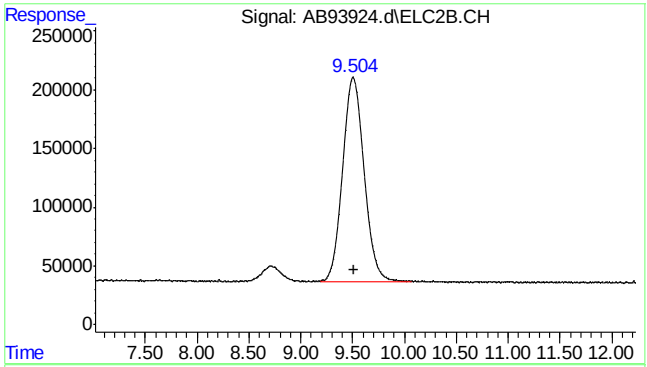
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29186915
Conc: 46.59 ppb

7.3.2

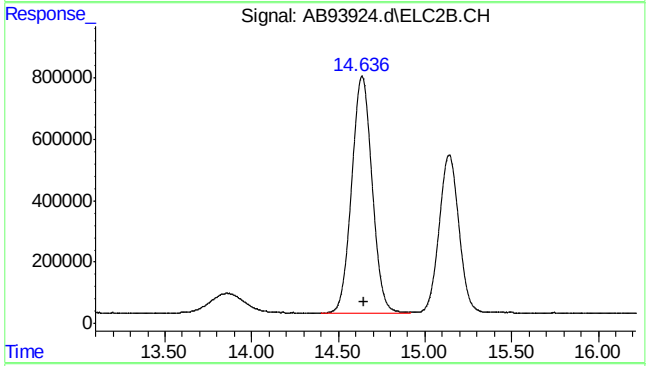
7

SGS ACCUTEST MC45678



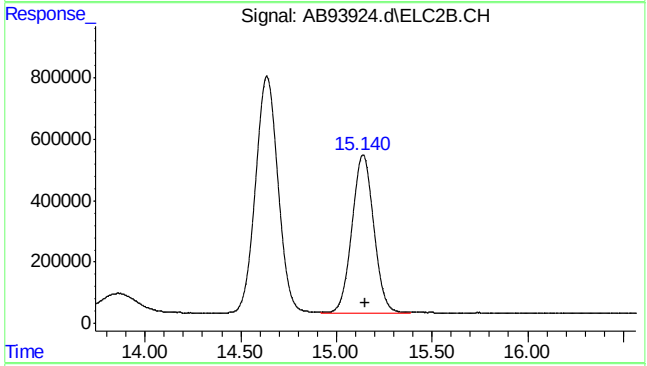
#14 mtbe #2

R.T.: 9.504 min
Delta R.T.: -0.007 min
Response: 25173296
Conc: 49.90 ppb m



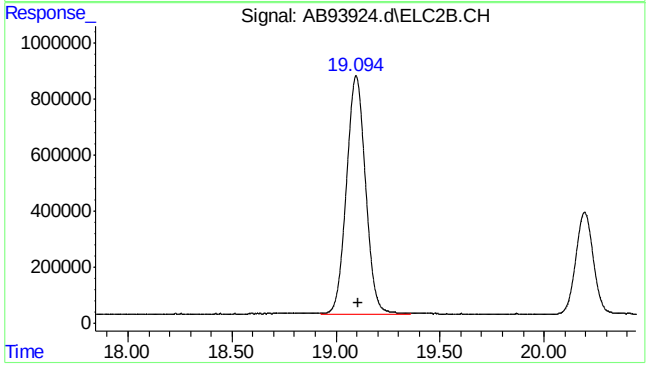
#15 benzene #2

R.T.: 14.636 min
Delta R.T.: -0.011 min
Response: 63298246
Conc: 48.63 ppb



#16 fluorobenzene #2

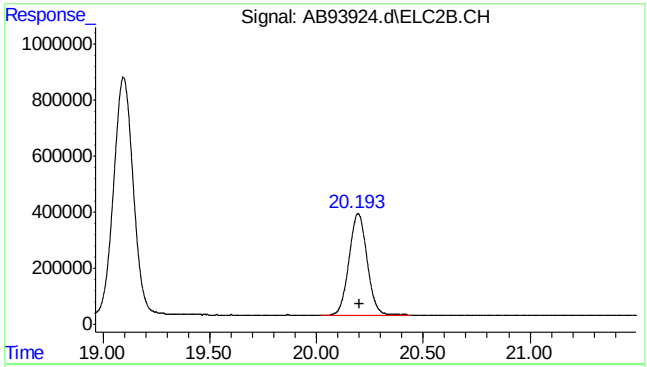
R.T.: 15.139 min
Delta R.T.: -0.009 min
Response: 41076081
Conc: 48.77 ppb



#17 toluene #2

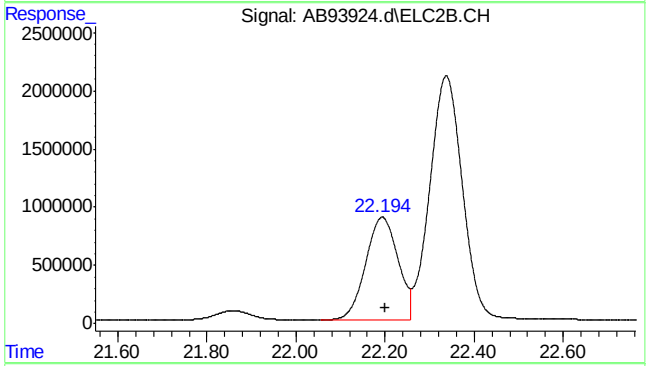
R.T.: 19.096 min
Delta R.T.: -0.010 min
Response: 54390996
Conc: 47.57 ppb

SGS ACCUTEST MC45678



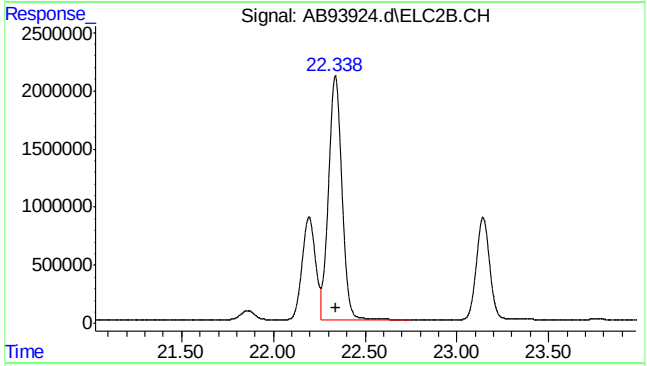
#18 2,3,4-trifluorotoluene #2

R.T.: 20.195 min
Delta R.T.: -0.008 min
Response: 21463093
Conc: 45.97 ppb



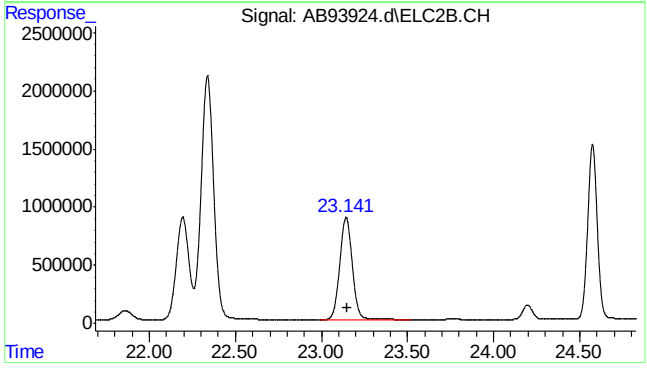
#19 ethylbenzene #2

R.T.: 22.194 min
Delta R.T.: -0.007 min
Response: 44535710
Conc: 48.10 ppb



#20 m,p-xylene #2

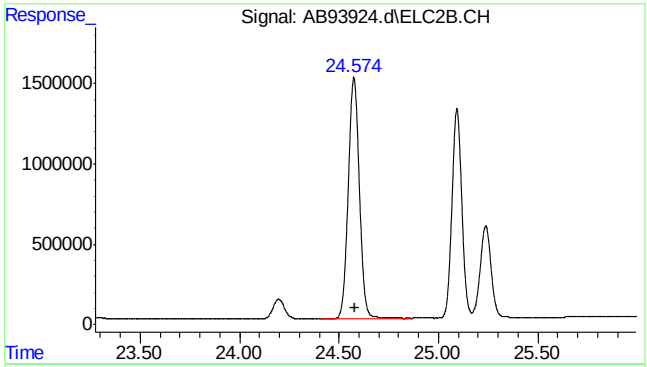
R.T.: 22.337 min
Delta R.T.: -0.007 min
Response: 106984381
Conc: 100.86 ppb



#21 o-xylene #2

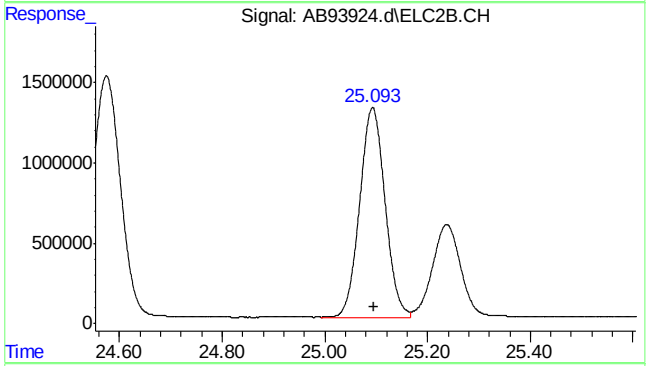
R.T.: 23.142 min
Delta R.T.: -0.007 min
Response: 44572232
Conc: 47.71 ppb

SGS ACCUTEST MC45678



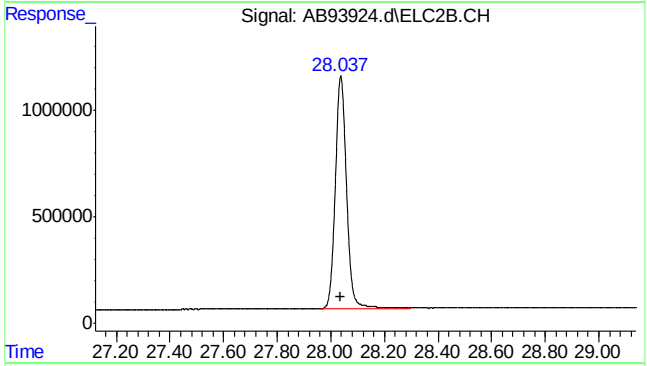
#22 1,3,5-trimethylbenzene #2

R.T.: 24.574 min
Delta R.T.: -0.005 min
Response: 58930062
Conc: 45.10 ppb



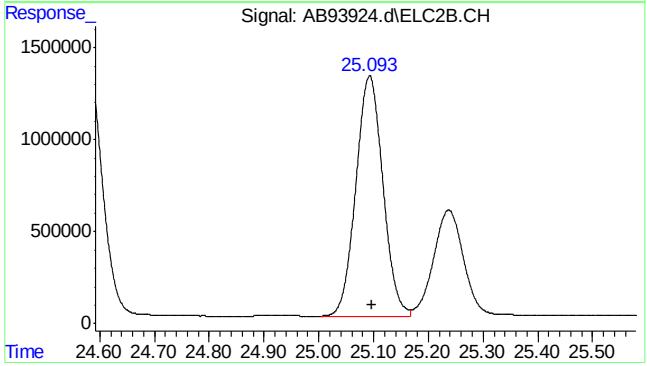
#23 1,2,4-trimethylbenzene #2

R.T.: 25.093 min
Delta R.T.: -0.003 min
Response: 45246700
Conc: 47.28 ppb



#24 naphthalene #2

R.T.: 28.037 min
Delta R.T.: 0.000 min
Response: 31938734
Conc: 44.18 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44812527
Conc: 46.77 ppb m

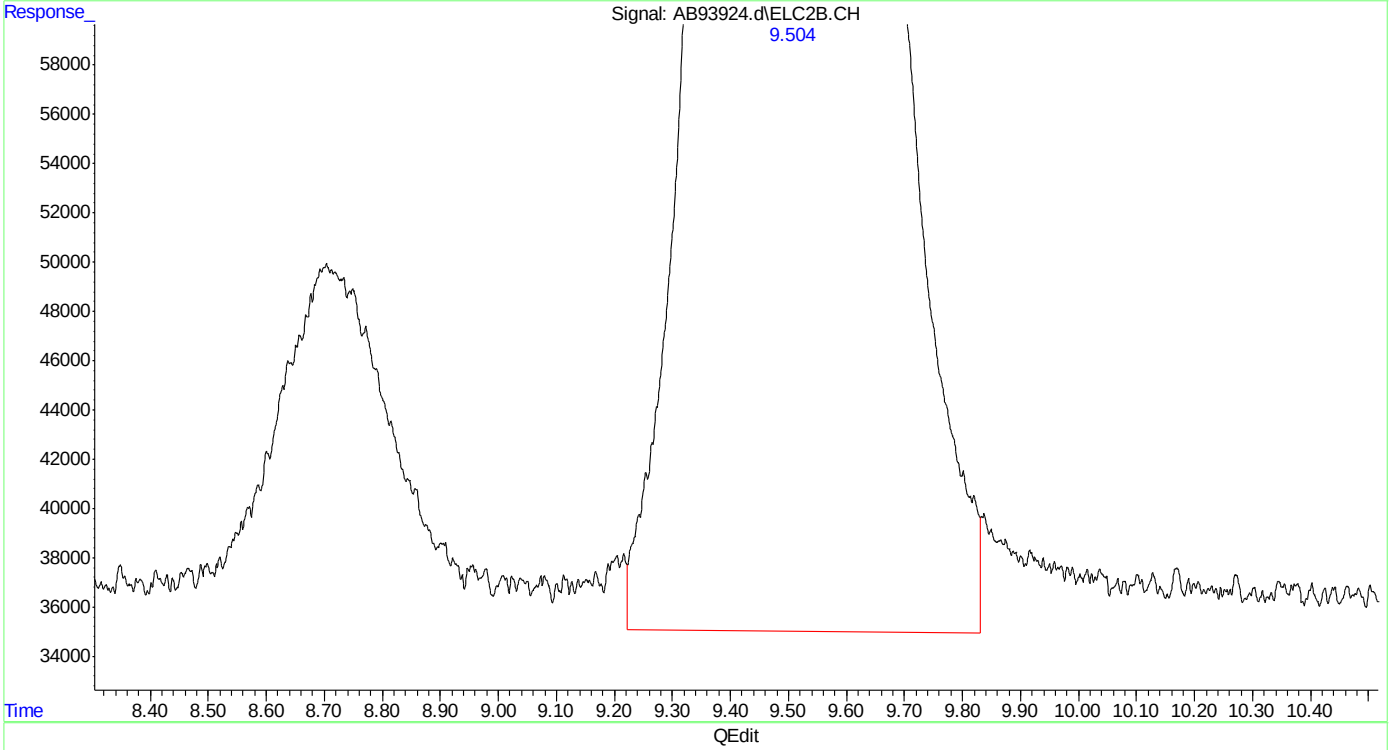
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93924.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 15:27:32
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:43 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.709 ppb
response 25580215

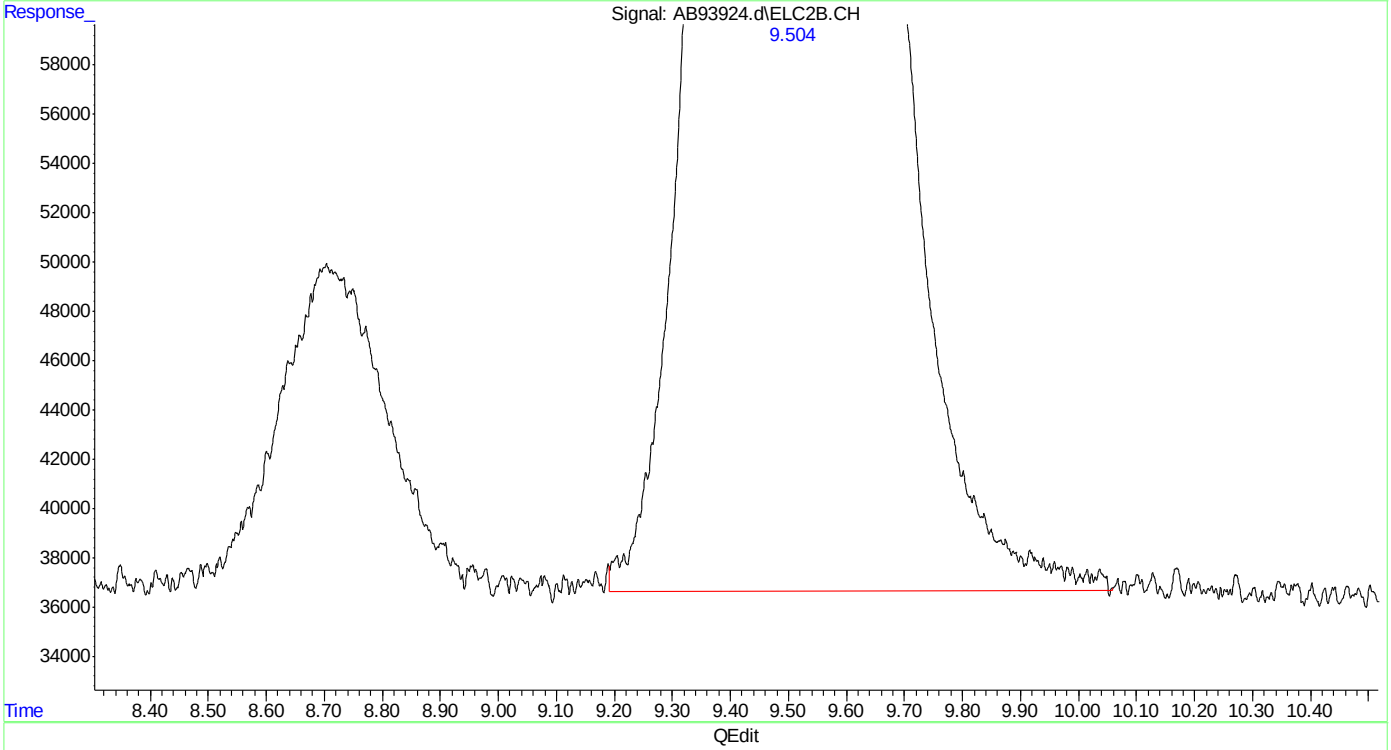
(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:55:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93924.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 15:27:32
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:43 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 49.902 ppb m
response 25173296

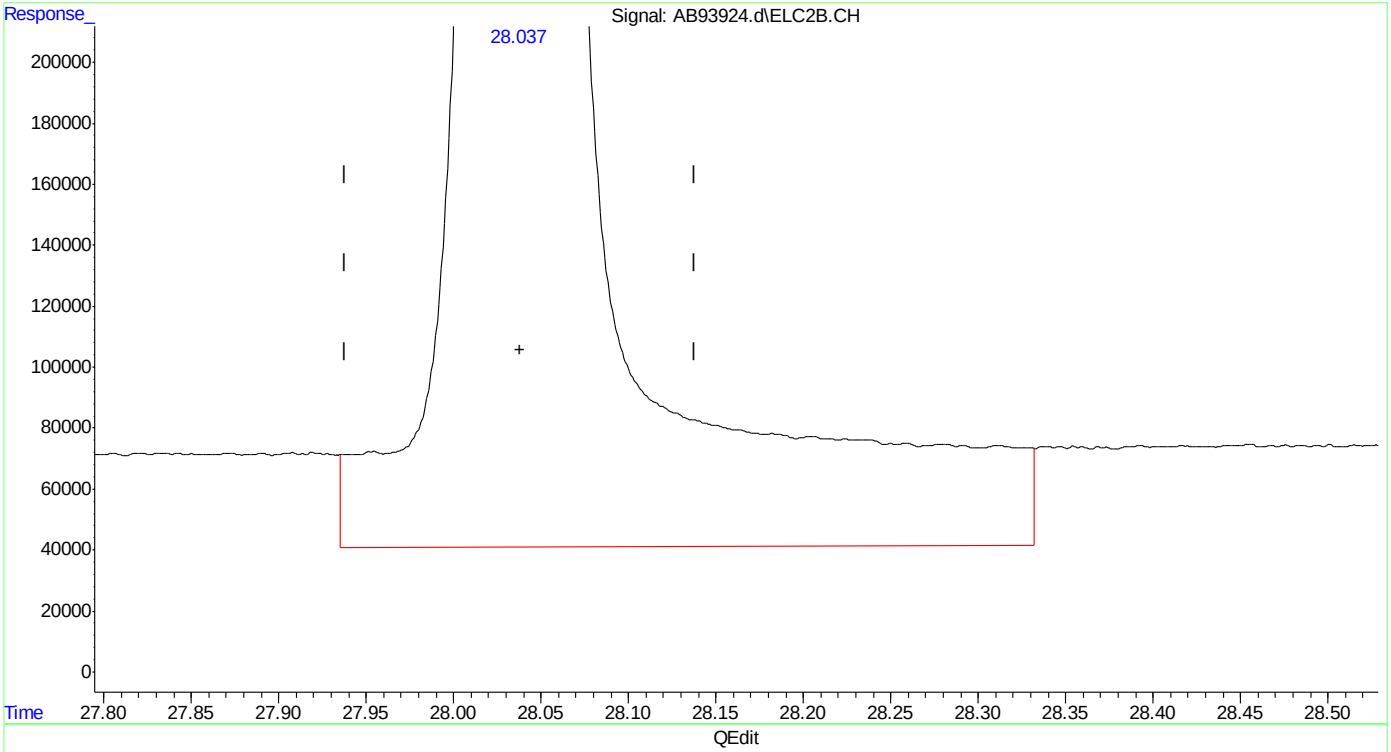
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93924.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 15:27:32
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:43 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
28.038min 54.462 ppb
response 39371088

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:55:13 2016

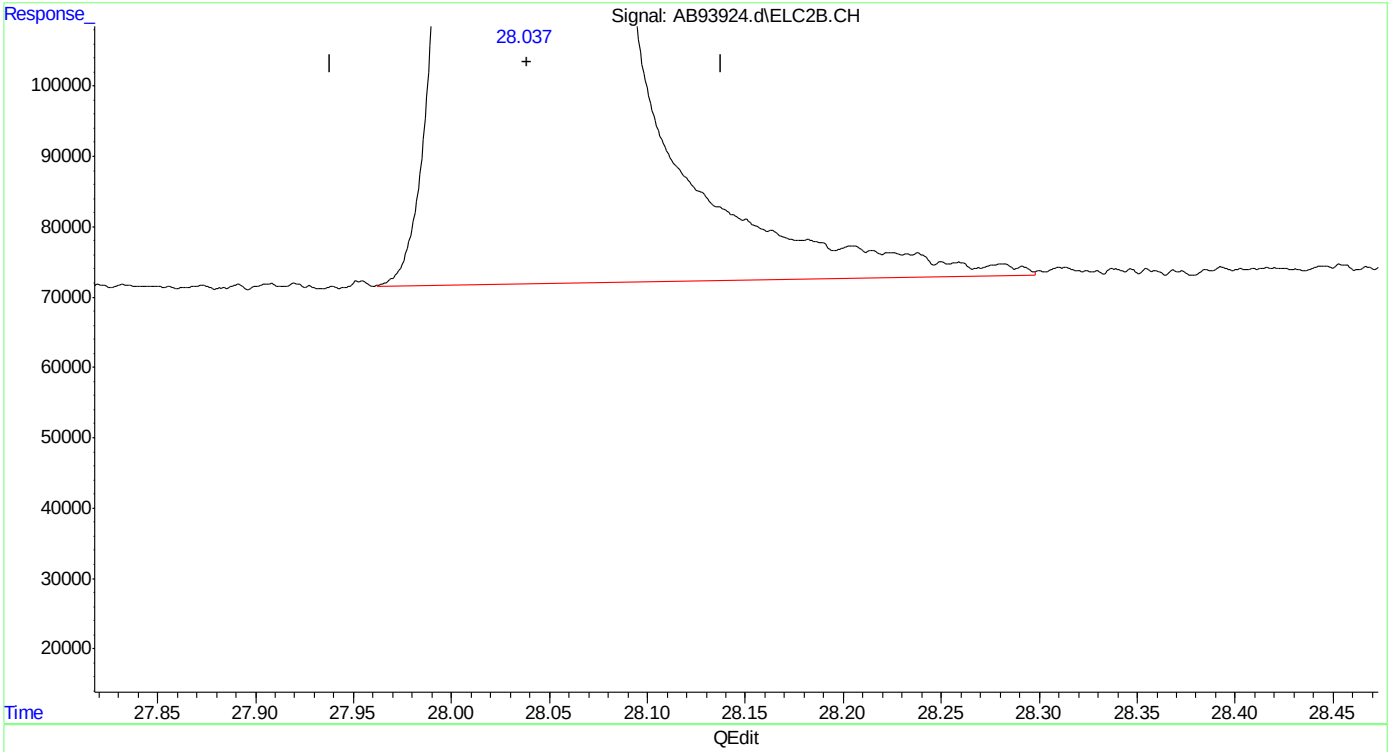
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93924.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 15:27:32
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26206,gab5161,,,,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 04 06:45:43 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.037min 44.181 ppb m

response 31938734

(+) = Expected Retention Time

ab160503vph.M Wed May 04 06:55:19 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93932.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:20:51 (#1); 04-May-16, 09:20:50 (#2)
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26207,gab5162,20,,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 04 09:59:32 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	23932155	54.374 ppb	
Spiked Amount 50.000		Recovery	= 108.75%	
6) s 2,3,4-trifluorotoluene	20.197	21532695	52.525 ppb	
Spiked Amount 50.000		Recovery	= 105.05%	
16) s fluorobenzene #2	15.139	45732624	54.298 ppb	
Spiked Amount 50.000		Recovery	= 108.60%	
18) s 2,3,4-trifluorotoluen...	20.195	24183105	51.798 ppb	
Spiked Amount 50.000		Recovery	= 103.60%	
Target Compounds				
1) h rt5.5-7	6.420	17959449	44.730 ppb	m
2) h rt7/10	8.720	21359569	53.198 ppb	m
3) h rt10/13	13.870	23114403	57.569 ppb	m
8) h rt20/25	21.870	30668525	48.952 ppb	m
10) h decane	24.200	31340559	50.025 ppb	
11) h butylcyclohexane	25.240	33394800	53.303 ppb	
14) mtbe #2	9.505	27400489	54.317 ppb	m
15) benzene #2	14.637	72355104	55.587 ppb	
17) toluene #2	19.097	62317738	54.508 ppb	
19) ethylbenzene #2	22.194	50594867	54.647 ppb	
20) m,p-xylene #2	22.338	120551578	113.651 ppb	
21) o-xylene #2	23.143	50768250	54.348 ppb	
22) t 1,3,5-trimethylbenzen...	24.575	66710245	51.060 ppb	
23) 1,2,4-trimethylbenzen...	25.093	50455881	52.721 ppb	
24) naphthalene #2	28.038	34126524	47.207 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	50518054	52.730 ppb	m

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

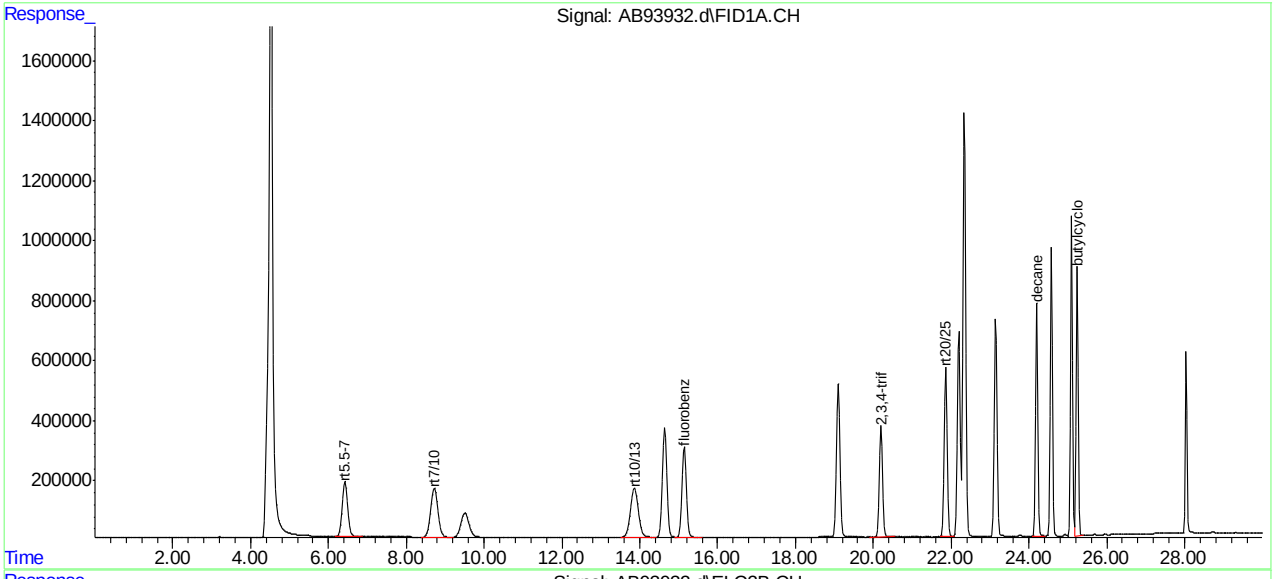
SGS ACCUTEST MC45678

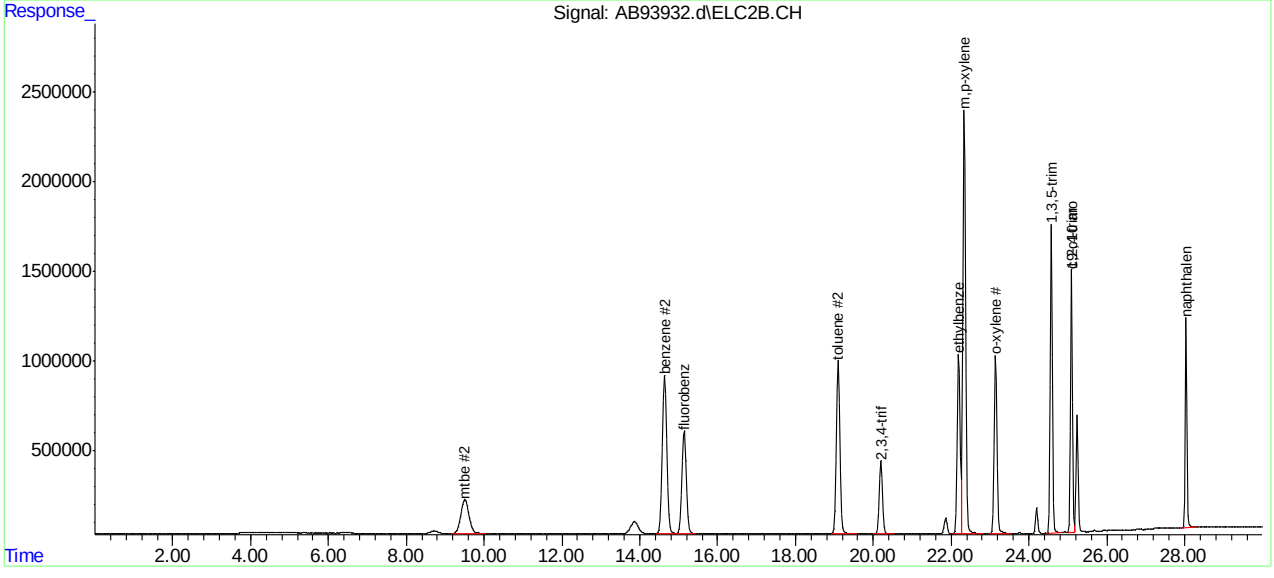
Quantitation Report (QT Reviewed)

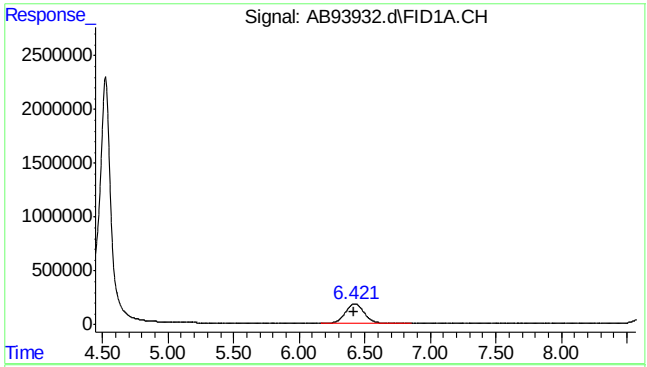
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93932.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:20:51 (#1); 04-May-16, 09:20:50 (#2)
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26207,gab5162,20,,100,20,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 09:59:32 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 :

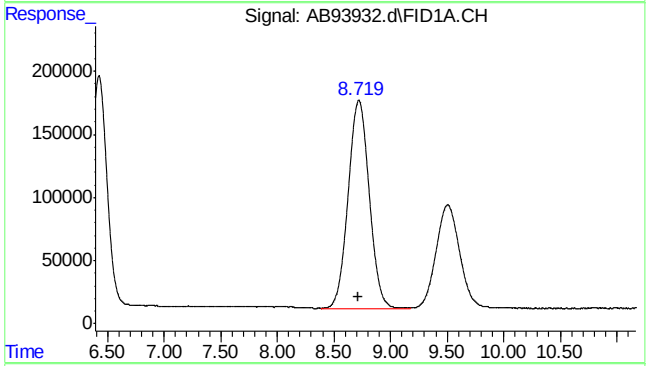






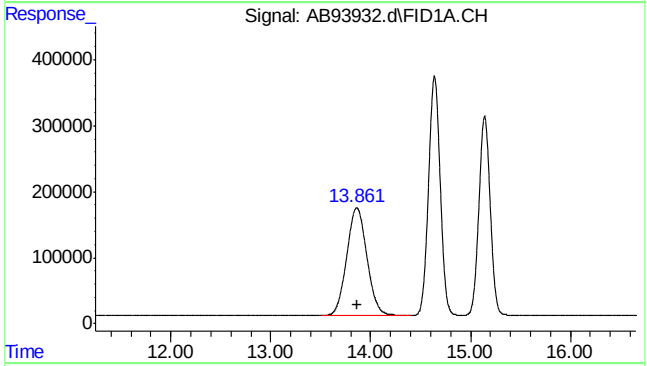
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 17959449
Conc: 44.73 ppb m



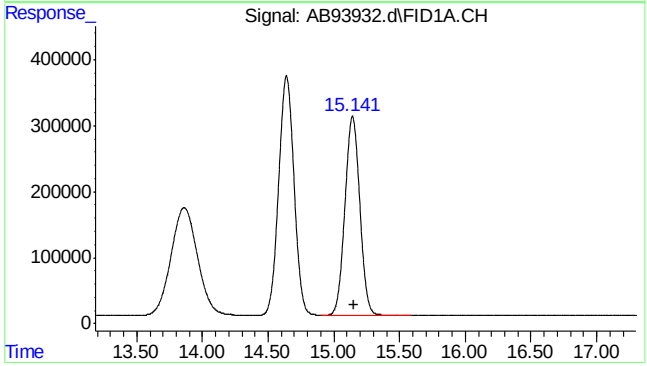
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 21359569
Conc: 53.20 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 23114403
Conc: 57.57 ppb m



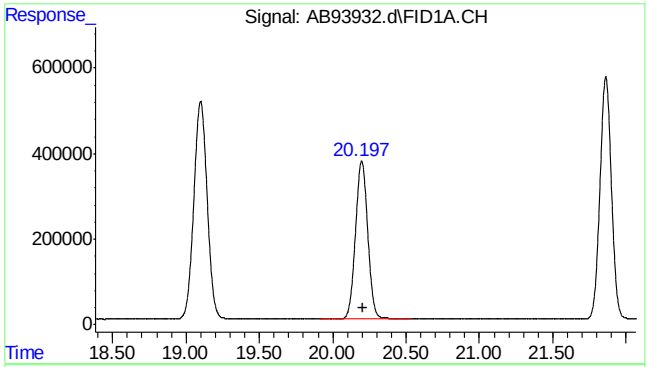
#4 fluorobenzene

R.T.: 15.142 min
Delta R.T.: -0.010 min
Response: 23932155
Conc: 54.37 ppb

7.3.3

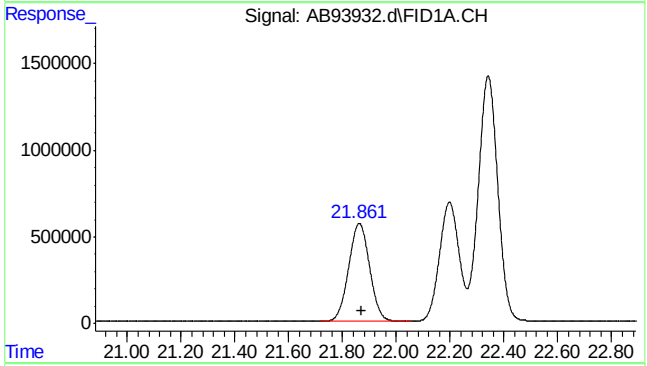
7

SGS ACCUTEST MC45678



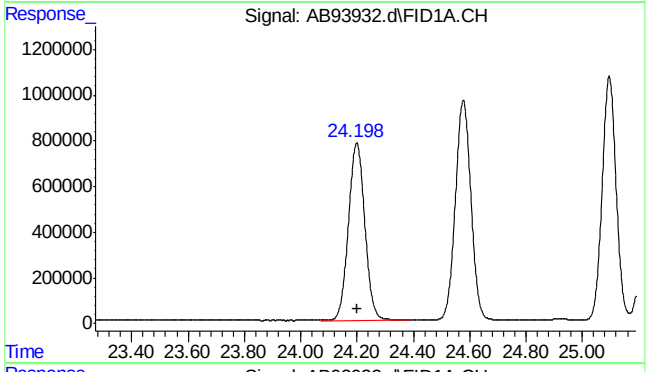
#6 2,3,4-trifluorotoluene

R.T.: 20.197 min
Delta R.T.: -0.008 min
Response: 21532695
Conc: 52.52 ppb



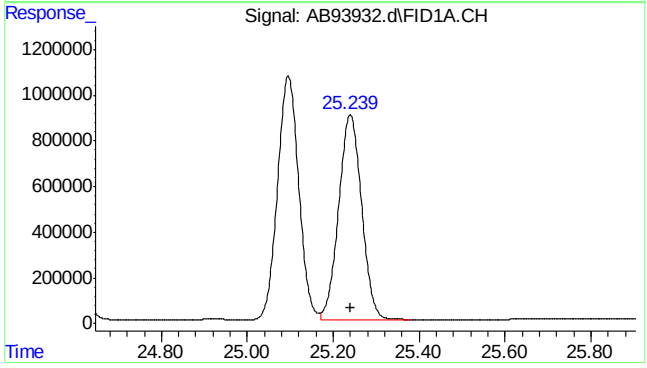
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 30668525
Conc: 48.95 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 31340559
Conc: 50.02 ppb

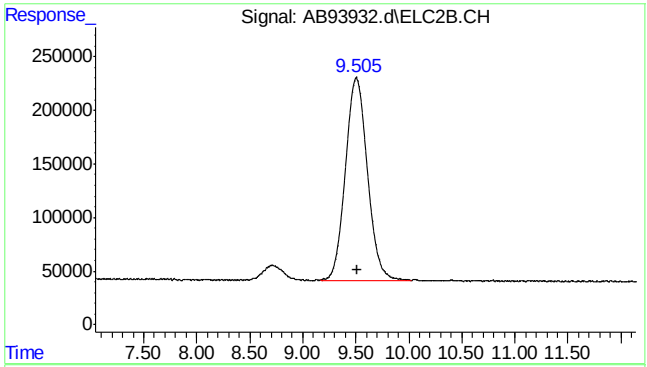


#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 33394800
Conc: 53.30 ppb

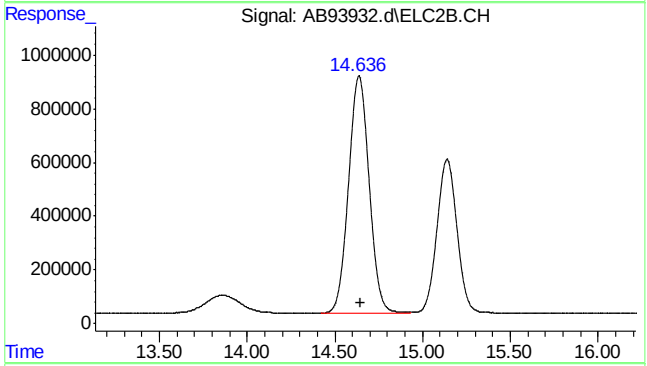
7.3.3

7



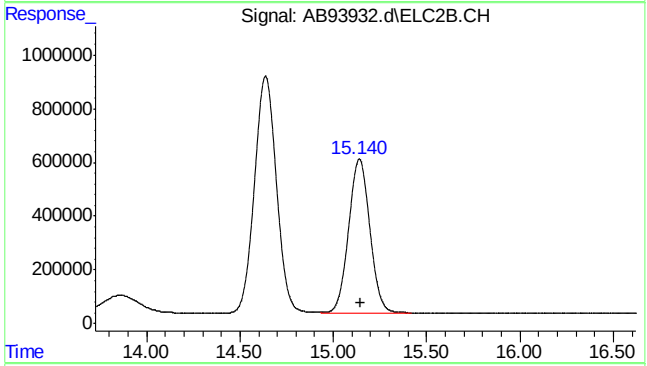
#14 mtbe #2

R.T.: 9.505 min
Delta R.T.: -0.006 min
Response: 27400489
Conc: 54.32 ppb m



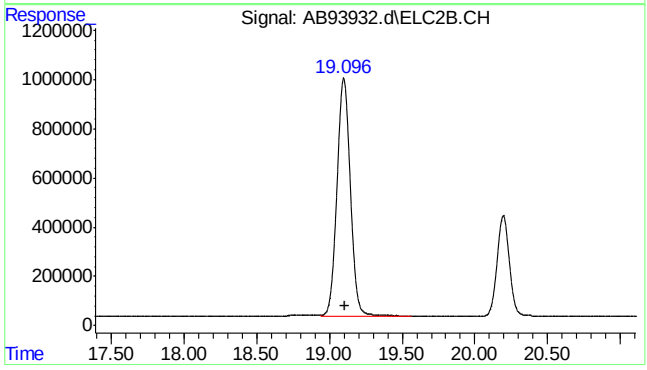
#15 benzene #2

R.T.: 14.637 min
Delta R.T.: -0.009 min
Response: 72355104
Conc: 55.59 ppb



#16 fluorobenzene #2

R.T.: 15.139 min
Delta R.T.: -0.009 min
Response: 45732624
Conc: 54.30 ppb



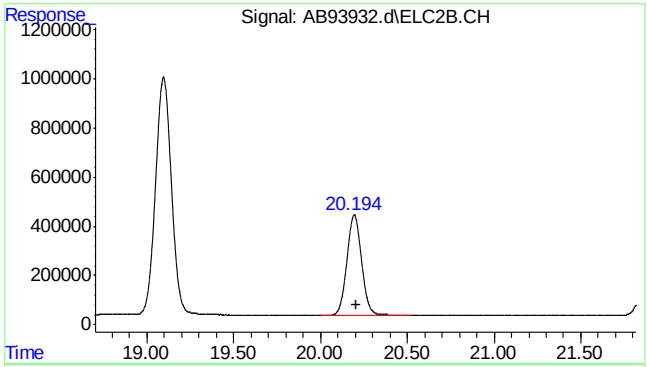
#17 toluene #2

R.T.: 19.097 min
Delta R.T.: -0.009 min
Response: 62317738
Conc: 54.51 ppb

7.3.3

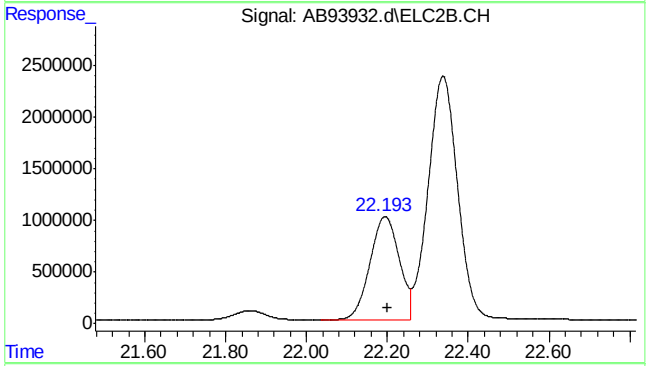
7

SGS ACCUTEST MC45678



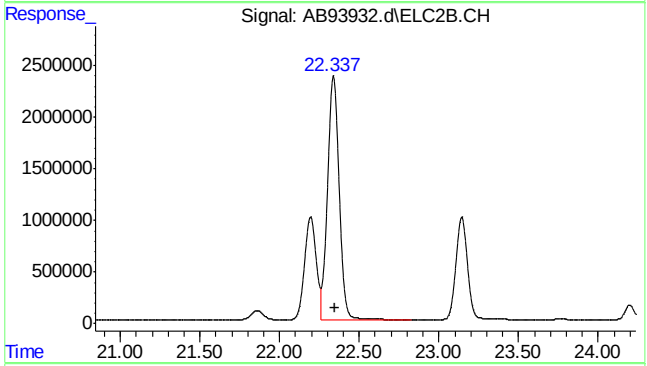
#18 2,3,4-trifluorotoluene #2

R.T.: 20.195 min
Delta R.T.: -0.008 min
Response: 24183105
Conc: 51.80 ppb



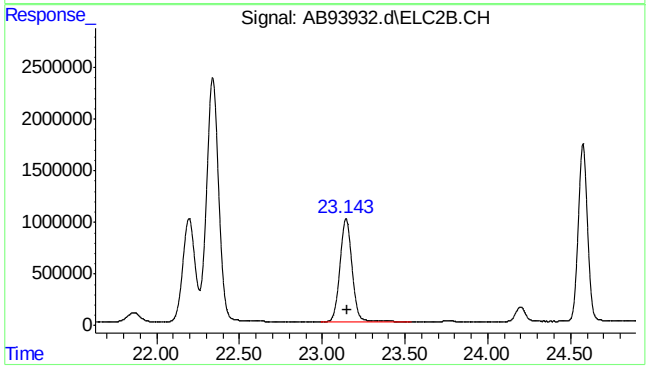
#19 ethylbenzene #2

R.T.: 22.194 min
Delta R.T.: -0.007 min
Response: 50594867
Conc: 54.65 ppb



#20 m,p-xylene #2

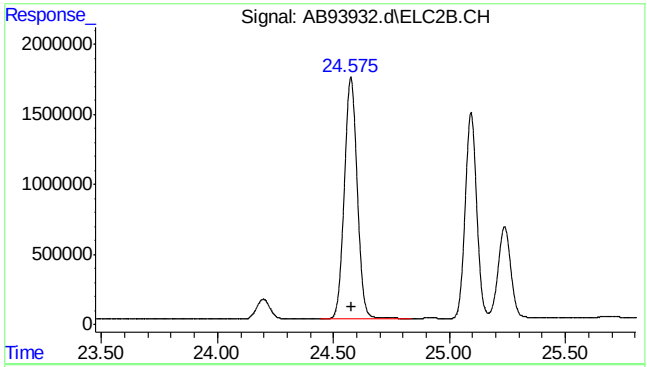
R.T.: 22.338 min
Delta R.T.: -0.006 min
Response: 120551578
Conc: 113.65 ppb



#21 o-xylene #2

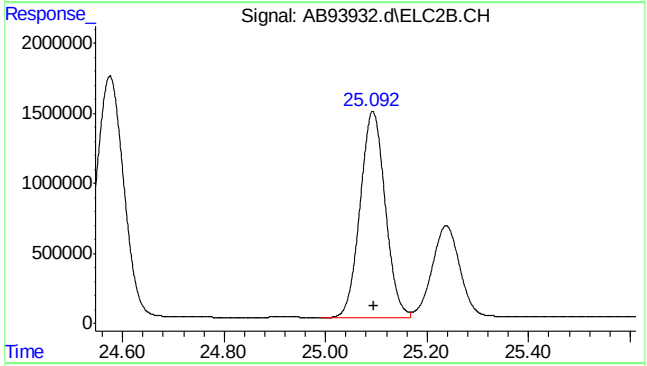
R.T.: 23.143 min
Delta R.T.: -0.006 min
Response: 50768250
Conc: 54.35 ppb

SGS ACCUTEST MC45678



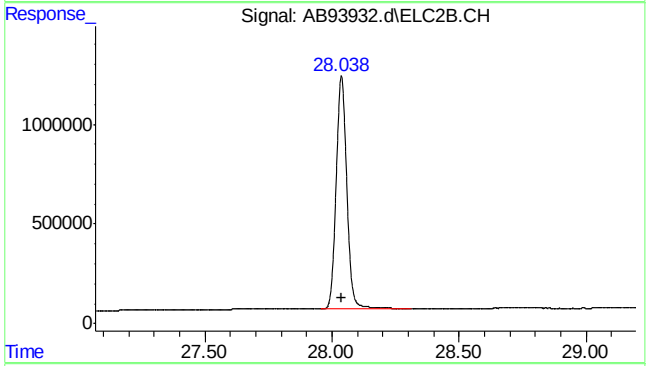
#22 1,3,5-trimethylbenzene #2

R.T.: 24.575 min
Delta R.T.: -0.004 min
Response: 66710245
Conc: 51.06 ppb



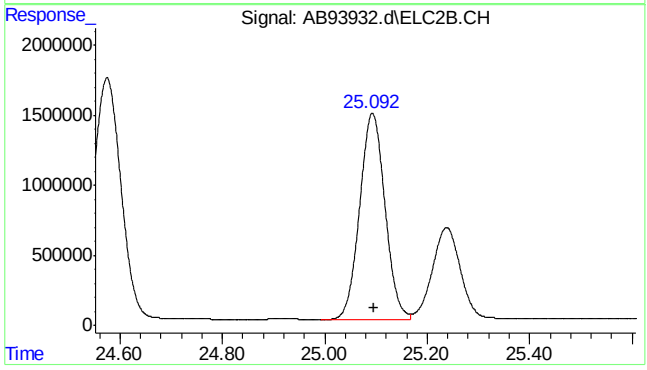
#23 1,2,4-trimethylbenzene #2

R.T.: 25.093 min
Delta R.T.: -0.003 min
Response: 50455881
Conc: 52.72 ppb



#24 naphthalene #2

R.T.: 28.038 min
Delta R.T.: 0.000 min
Response: 34126524
Conc: 47.21 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 50518054
Conc: 52.73 ppb m

7.3.3

7

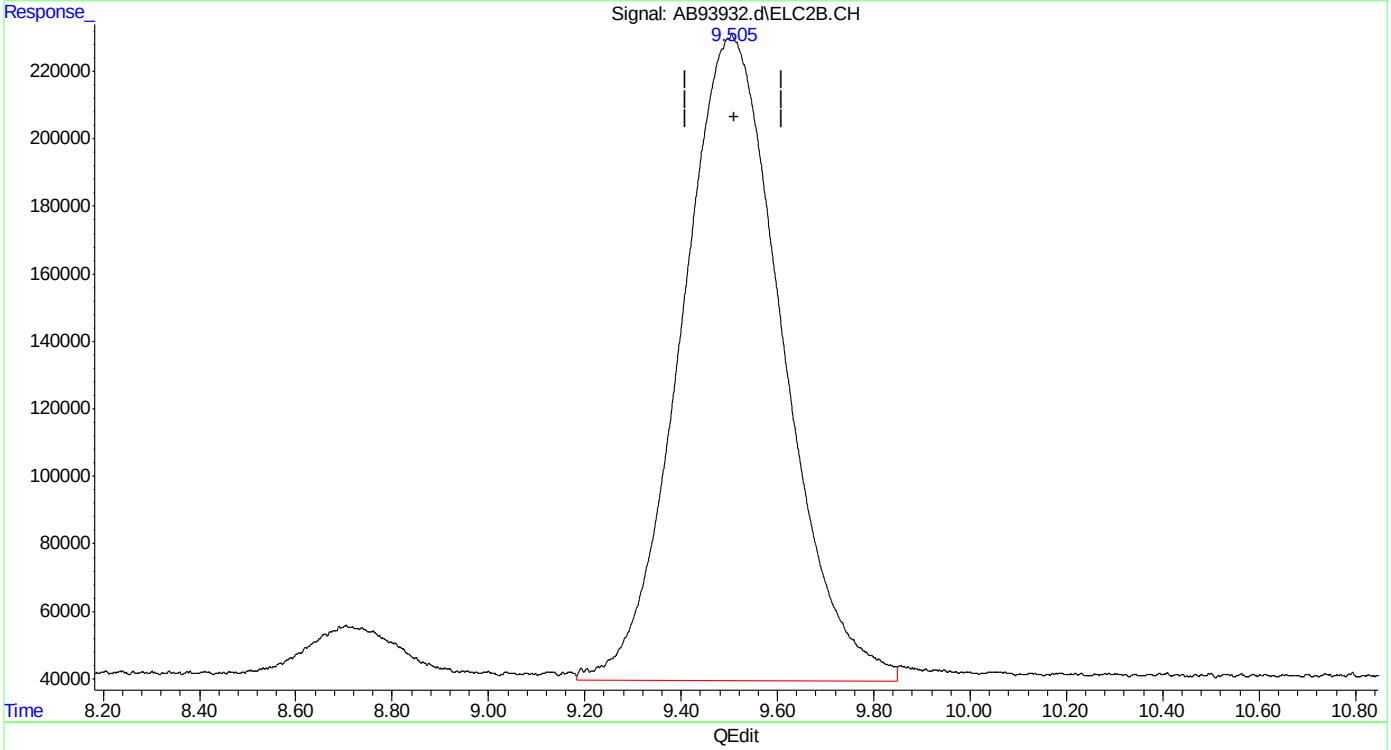
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93932.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 09:20:51 (#1); 04-May-16, 09:20:50 (#2)
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26207,gab5162,20,,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 04 09:58:31 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 55.292 ppb

response 27892279

(+) = Expected Retention Time

ab160504vph.M Wed May 04 09:59:03 2016

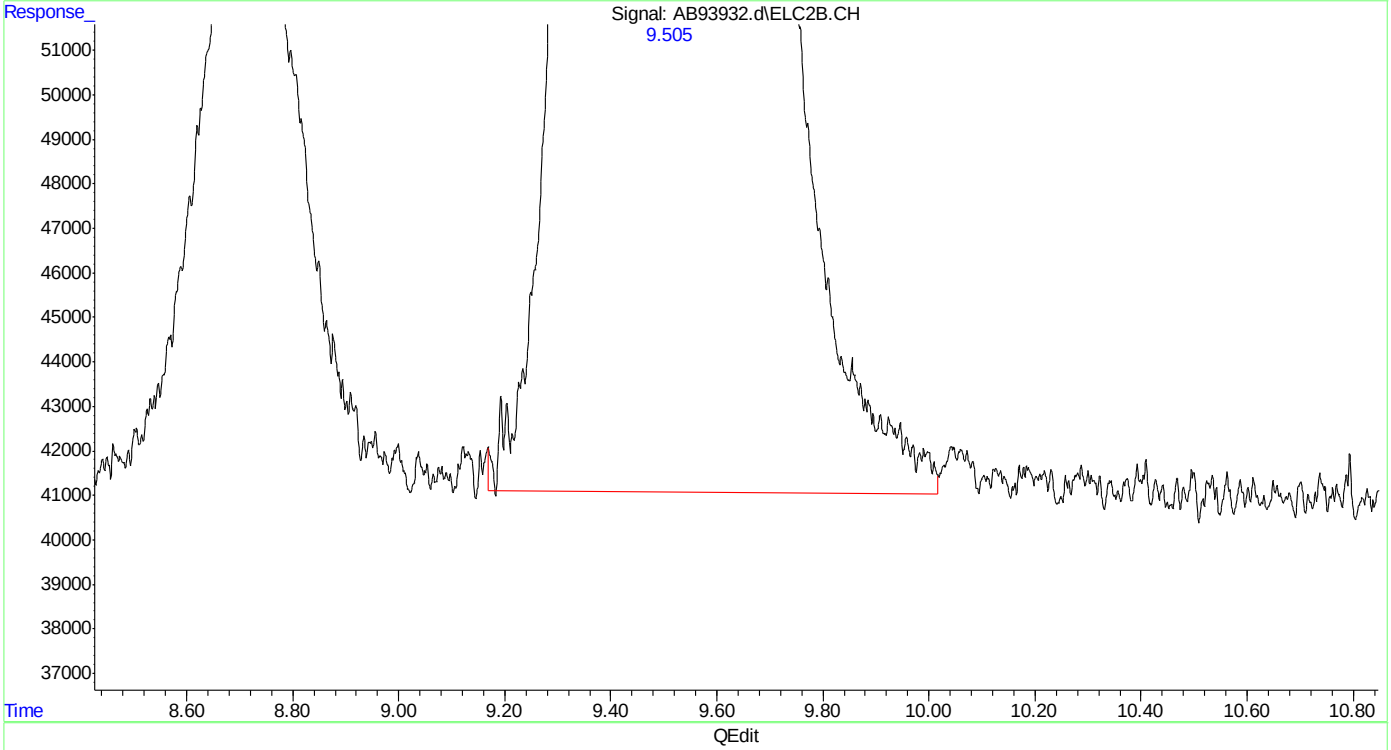
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93932.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:20:51 (#1); 04-May-16, 09:20:50 (#2)
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26207,gab5162,20,,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 04 09:58:31 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 54.317 ppb m
response 27400489

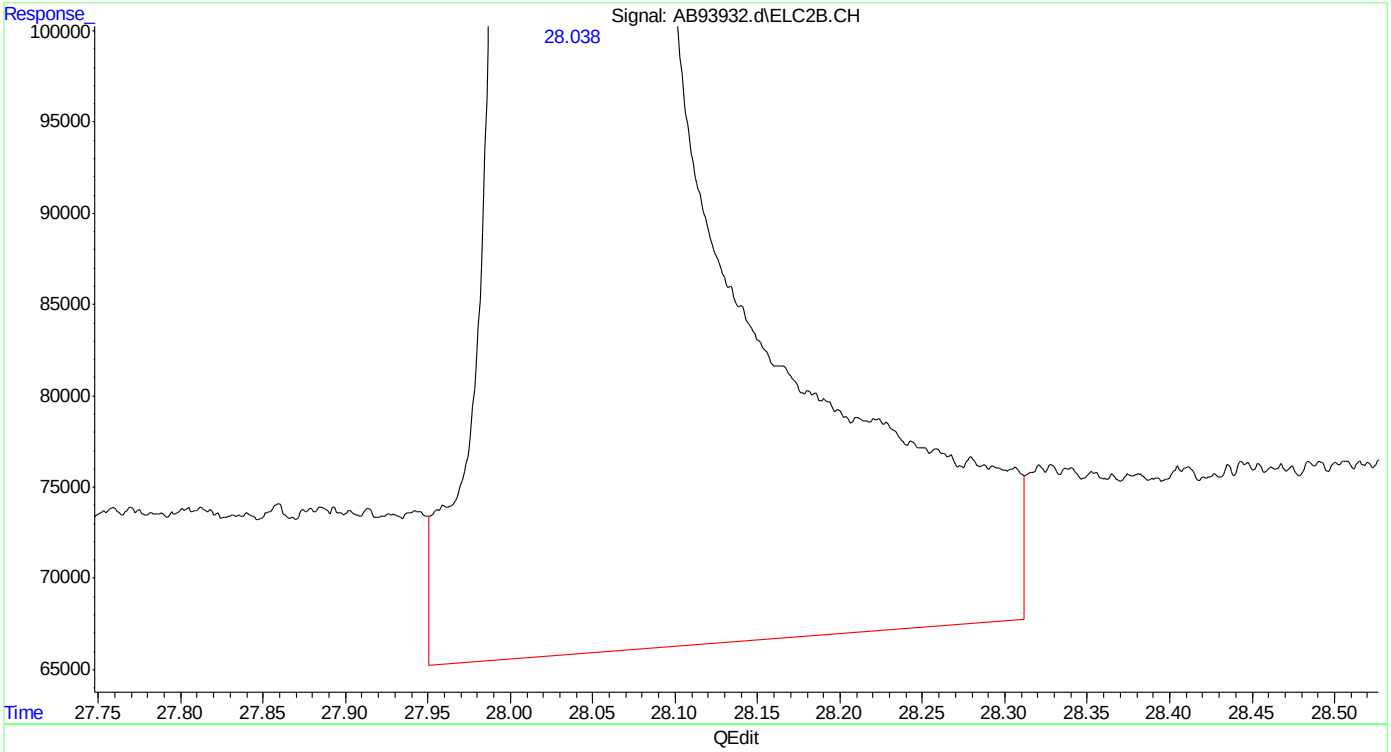
(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:59:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93932.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:20:51 (#1); 04-May-16, 09:20:50 (#2)
Operator : tonyf
Sample : bsp,s,vmavph,20
Misc : gc26207,gab5162,20,,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 04 09:58:31 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
28.038min 49.549 ppb
response 35819506

(+) = Expected Retention Time
ab160504vph.M Wed May 04 09:59:20 2016

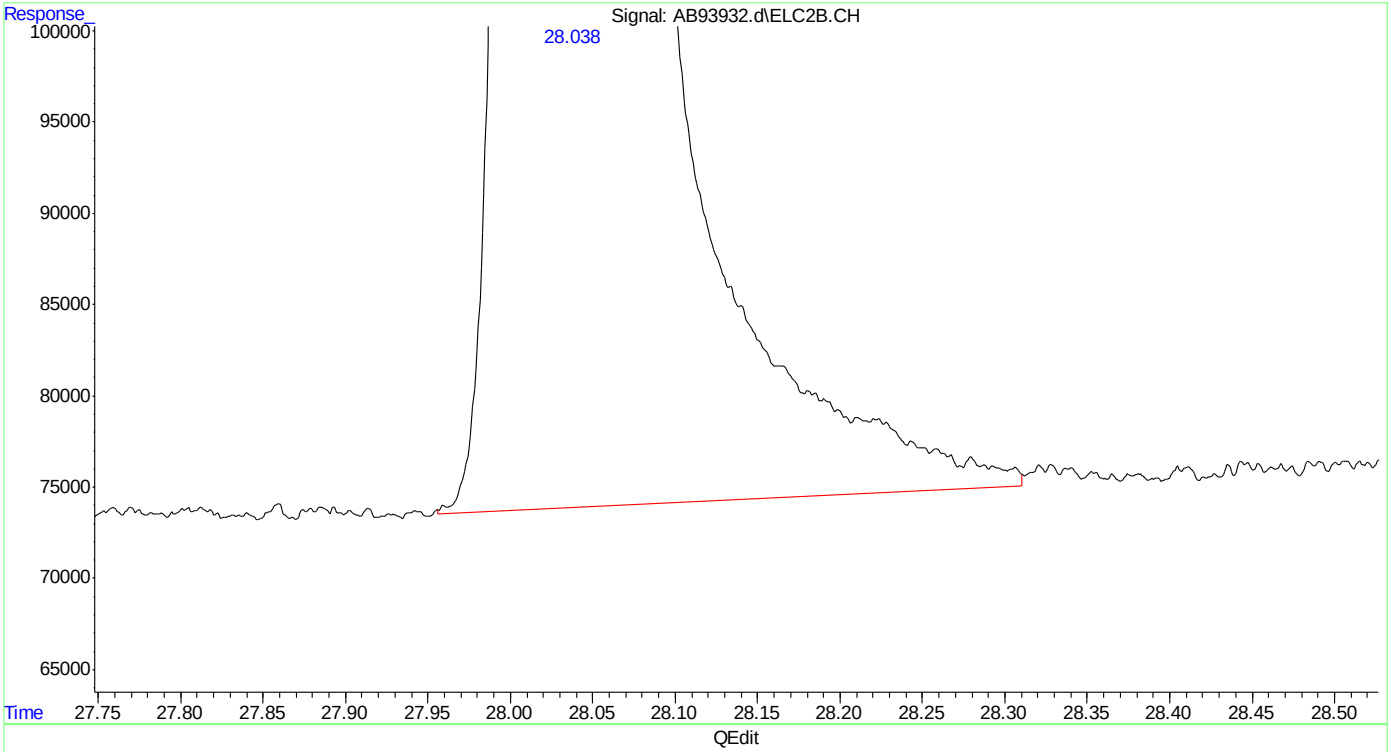
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93932.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 09:20:51 (#1); 04-May-16, 09:20:50 (#2)
Operator  : tonyf
Sample    : bsp,s,vmavph,20
Misc      : gc26207,gab5162,20,,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 04 09:58:31 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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

28.038min 47.207 ppb m

response 34126524

(+) = Expected Retention Time

ab160504vph.M Wed May 04 09:59:26 2016

SGS ACCUTEST MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/10/16 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93933.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:58:30
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26207,gab5162,20,,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 04 10:52:09 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	23615282	53.654	ppb	
Spiked Amount 50.000		Recovery = 107.31%			
6) s 2,3,4-trifluorotoluene	20.197	21513581	52.478	ppb	
Spiked Amount 50.000		Recovery = 104.96%			
16) s fluorobenzene #2	15.137	45181135	53.644	ppb	
Spiked Amount 50.000		Recovery = 107.29%			
18) s 2,3,4-trifluorotoluen...	20.195	23844872	51.073	ppb	
Spiked Amount 50.000		Recovery = 102.15%			
Target Compounds					
1) h rt5.5-7	6.420	17810801	44.360	ppb	m
2) h rt7/10	8.720	21198603	52.797	ppb	m
3) h rt10/13	13.870	23817527	59.320	ppb	m
8) h rt20/25	21.870	30692725	48.991	ppb	m
10) h decane	24.200	31261223	49.898	ppb	
11) h butylcyclohexane	25.240	33317659	53.180	ppb	
14) mtbe #2	9.500	27438775	54.393	ppb	m
15) benzene #2	14.635	71713366	55.094	ppb	
17) toluene #2	19.095	61438860	53.739	ppb	
19) ethylbenzene #2	22.194	50554941	54.604	ppb	
20) m,p-xylene #2	22.337	120092977	113.219	ppb	
21) o-xylene #2	23.143	50238775	53.781	ppb	
22) t 1,3,5-trimethylbenzen...	24.575	66373029	50.802	ppb	
23) 1,2,4-trimethylbenzen...	25.093	50165777	52.418	ppb	
24) naphthalene #2	28.037	34261538	47.394	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	50246190	52.447	ppb	m

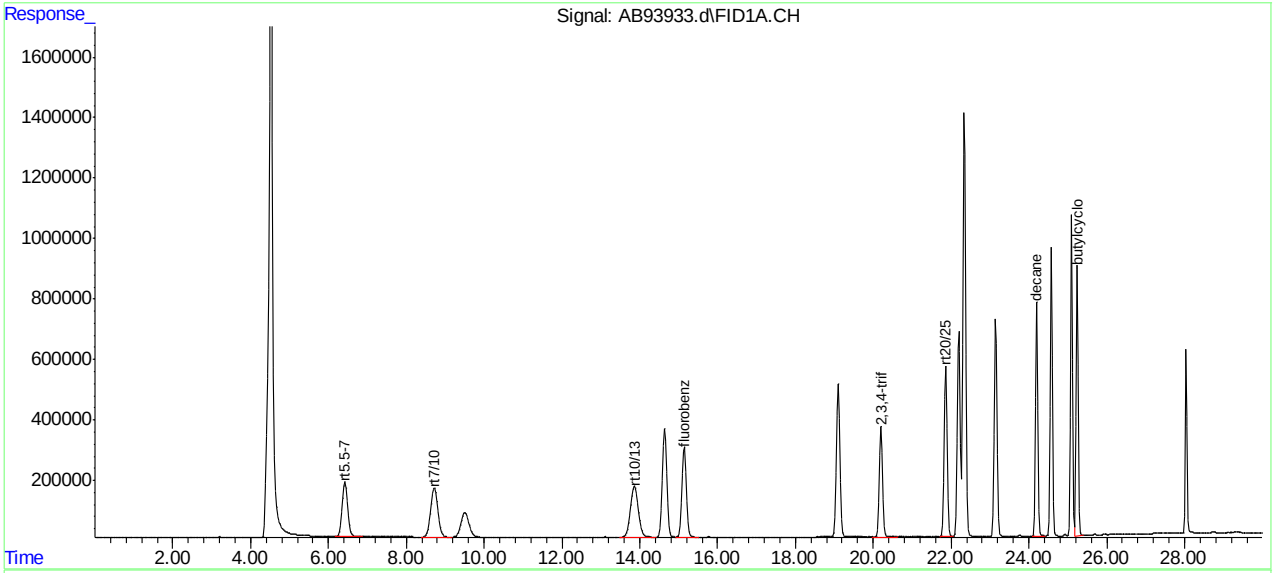
(f)=RT Delta > 1/2 Window (m)=manual int.

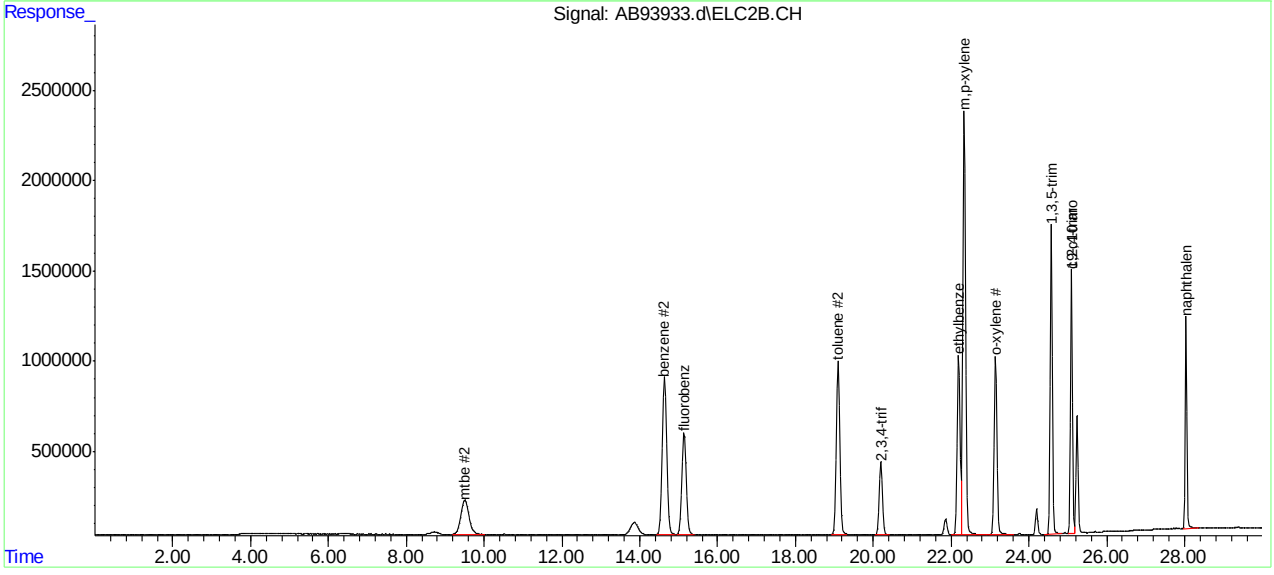
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93933.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:58:30
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26207,gab5162,20,,100,20,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

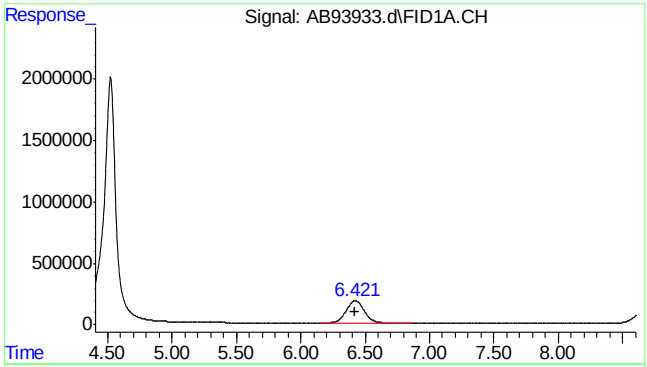
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 10:52:09 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



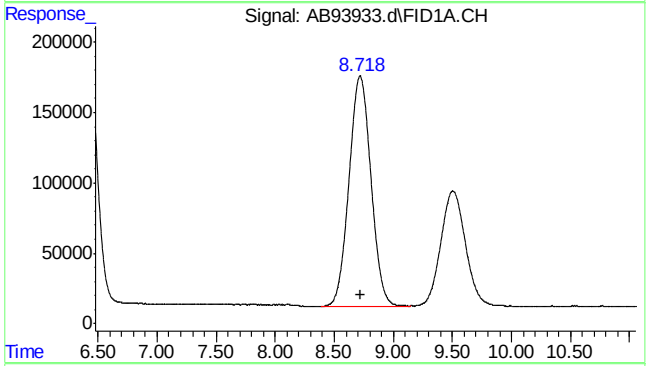


SGS ACCUTEST MC45678



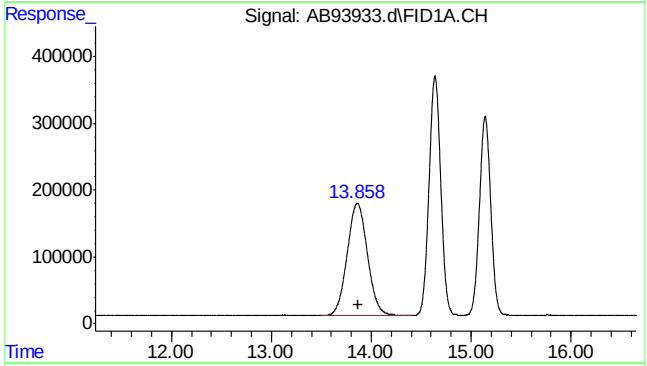
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 17810801
Conc: 44.36 ppb m



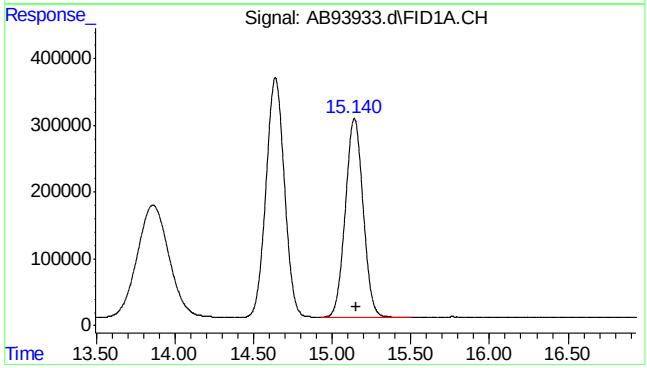
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 21198603
Conc: 52.80 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 23817527
Conc: 59.32 ppb m



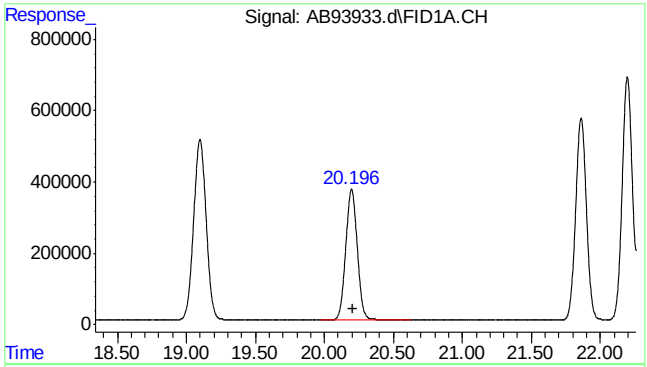
#4 fluorobenzene

R.T.: 15.140 min
Delta R.T.: -0.011 min
Response: 23615282
Conc: 53.65 ppb

7.3.4

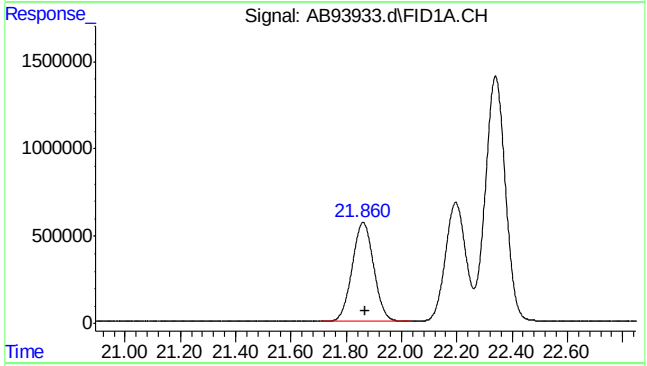
7

SGS ACCUTEST MC45678



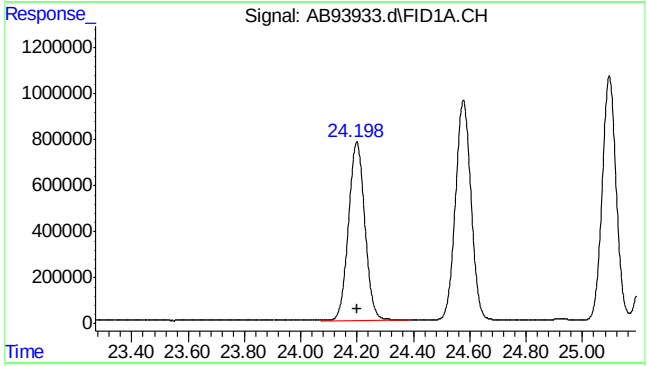
#6 2,3,4-trifluorotoluene

R.T.: 20.197 min
Delta R.T.: -0.009 min
Response: 21513581
Conc: 52.48 ppb



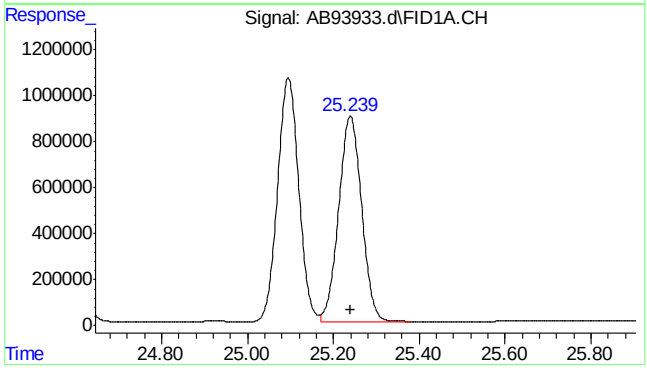
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 30692725
Conc: 48.99 ppb m



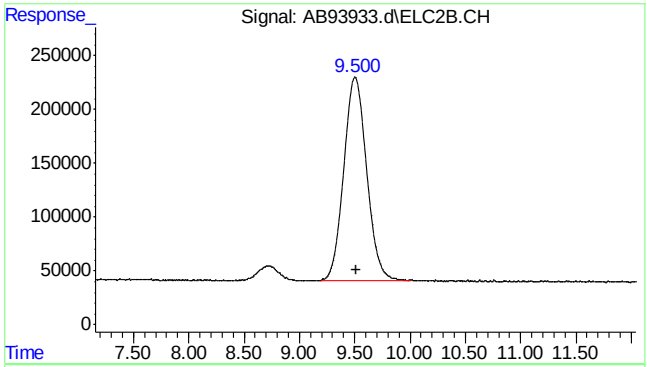
#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 31261223
Conc: 49.90 ppb



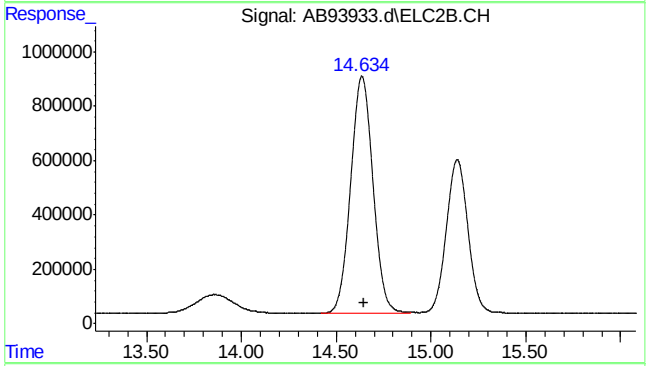
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 33317659
Conc: 53.18 ppb



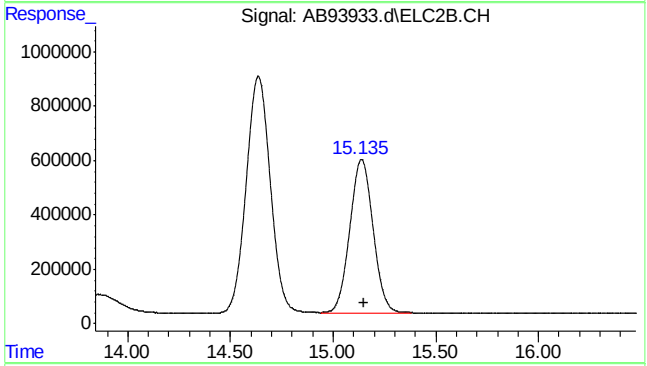
#14 mtbe #2

R.T.: 9.500 min
Delta R.T.: -0.011 min
Response: 27438775
Conc: 54.39 ppb m



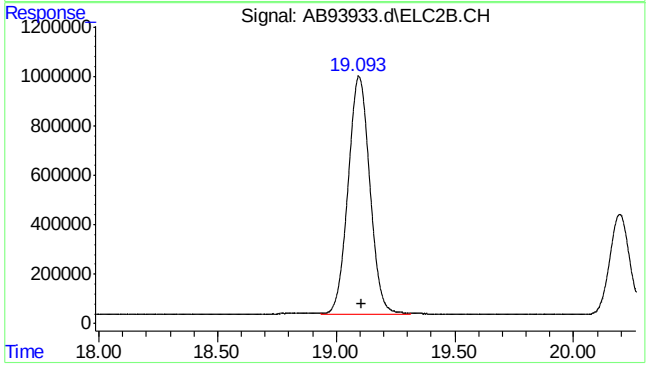
#15 benzene #2

R.T.: 14.635 min
Delta R.T.: -0.011 min
Response: 71713366
Conc: 55.09 ppb



#16 fluorobenzene #2

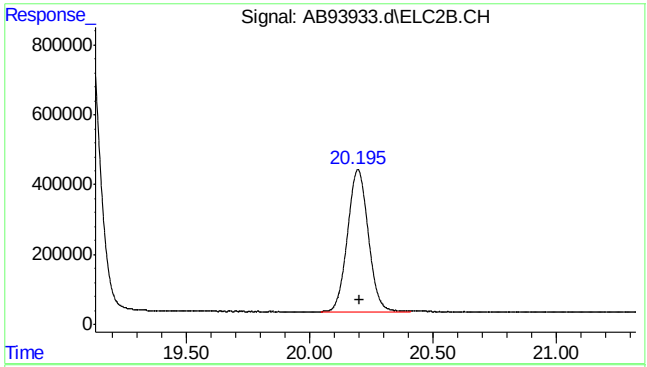
R.T.: 15.137 min
Delta R.T.: -0.011 min
Response: 45181135
Conc: 53.64 ppb



#17 toluene #2

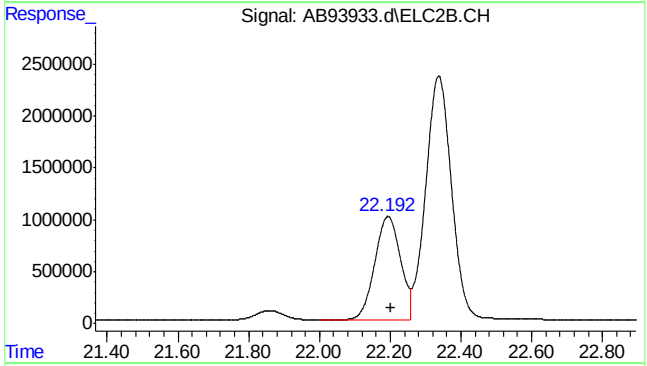
R.T.: 19.095 min
Delta R.T.: -0.011 min
Response: 61438860
Conc: 53.74 ppb

SGS ACCUTEST MC45678



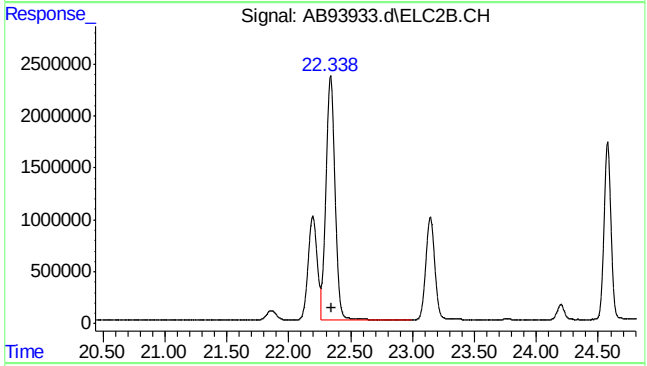
#18 2,3,4-trifluorotoluene #2

R.T.: 20.195 min
Delta R.T.: -0.008 min
Response: 23844872
Conc: 51.07 ppb



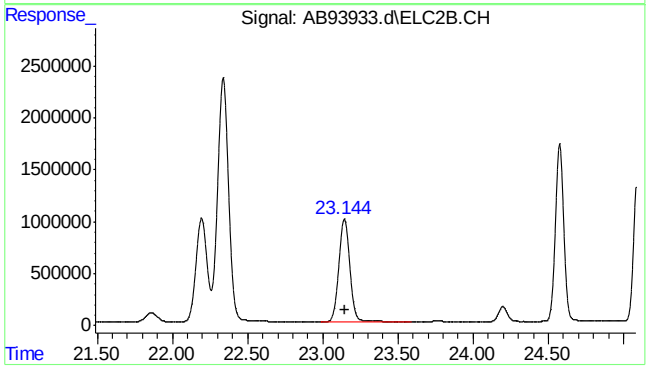
#19 ethylbenzene #2

R.T.: 22.194 min
Delta R.T.: -0.007 min
Response: 50554941
Conc: 54.60 ppb



#20 m,p-xylene #2

R.T.: 22.337 min
Delta R.T.: -0.007 min
Response: 120092977
Conc: 113.22 ppb



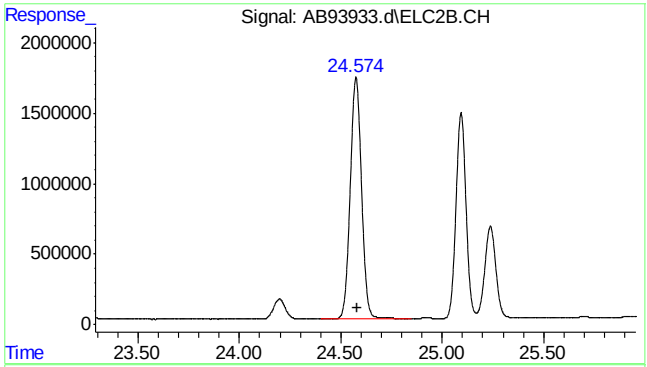
#21 o-xylene #2

R.T.: 23.143 min
Delta R.T.: -0.006 min
Response: 50238775
Conc: 53.78 ppb

7.3.4

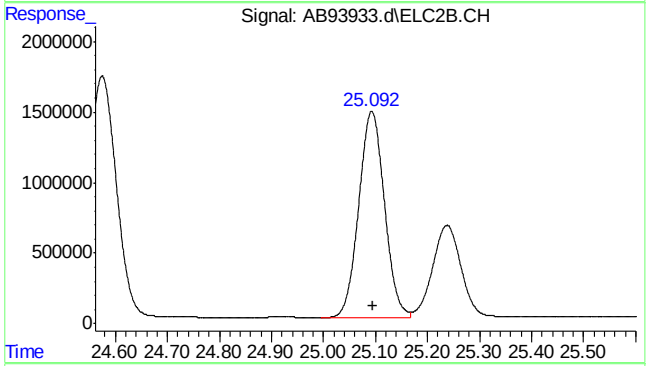
7

SGS ACCUTEST MC45678



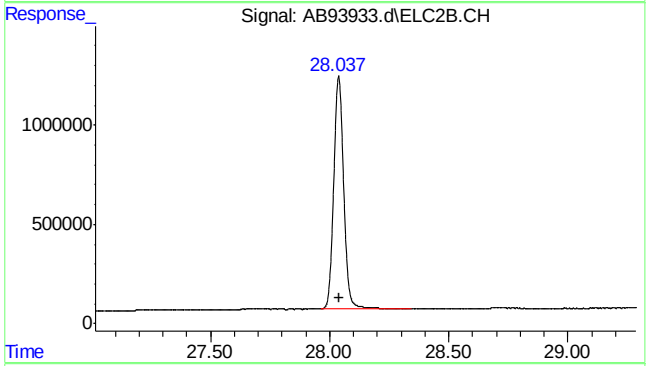
#22 1,3,5-trimethylbenzene #2

R.T.: 24.575 min
Delta R.T.: -0.004 min
Response: 66373029
Conc: 50.80 ppb



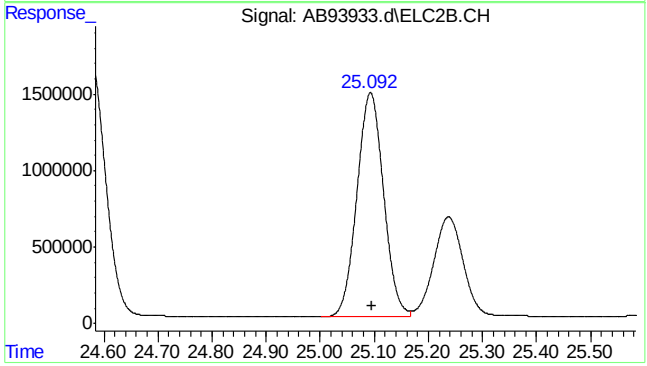
#23 1,2,4-trimethylbenzene #2

R.T.: 25.093 min
Delta R.T.: -0.003 min
Response: 50165777
Conc: 52.42 ppb



#24 naphthalene #2

R.T.: 28.037 min
Delta R.T.: -0.001 min
Response: 34261538
Conc: 47.39 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 50246190
Conc: 52.45 ppb m

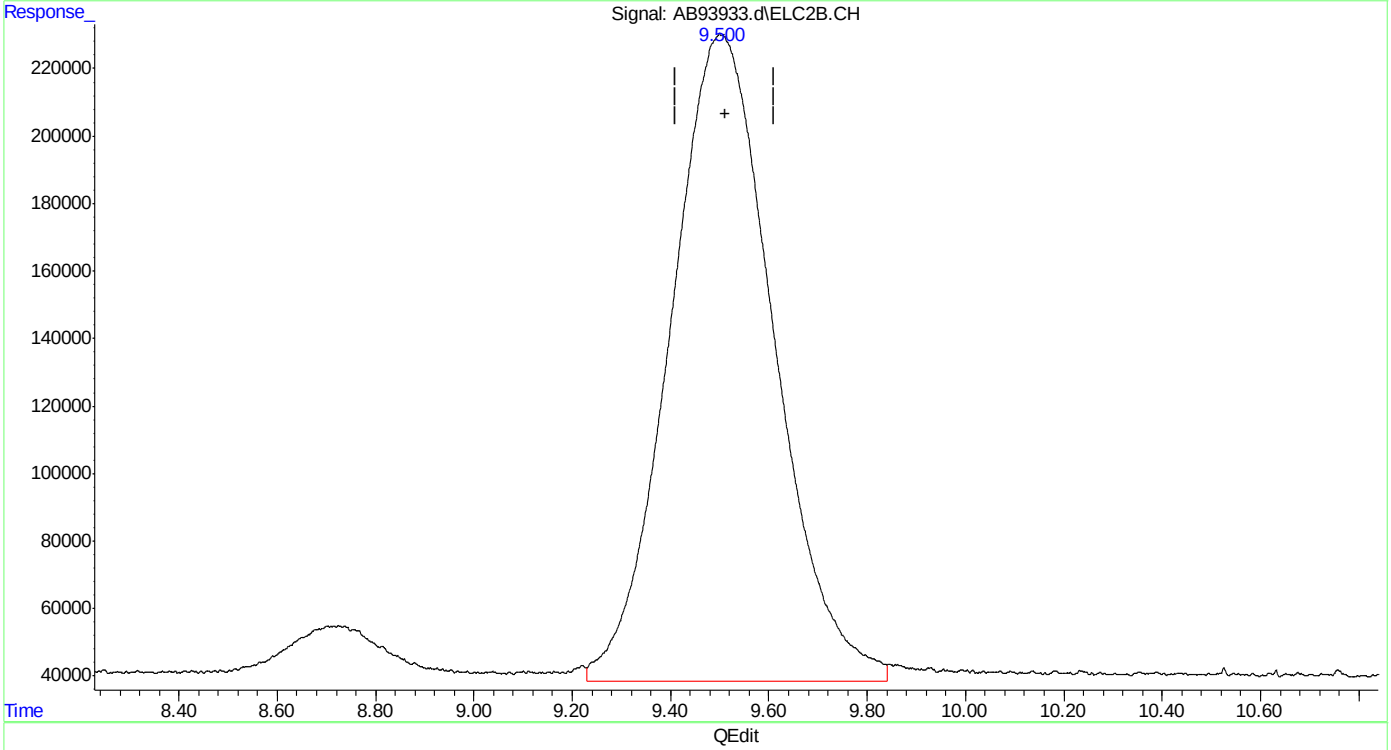
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93933.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 09:58:30
Operator  : tonyf
Sample    : bsd,s,vmavph,20
Misc      : gc26207,gab5162,20,,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 04 10:50:20 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 55.536 ppb

response 28015190

(+) = Expected Retention Time

ab160504vph.M Wed May 04 10:51:40 2016

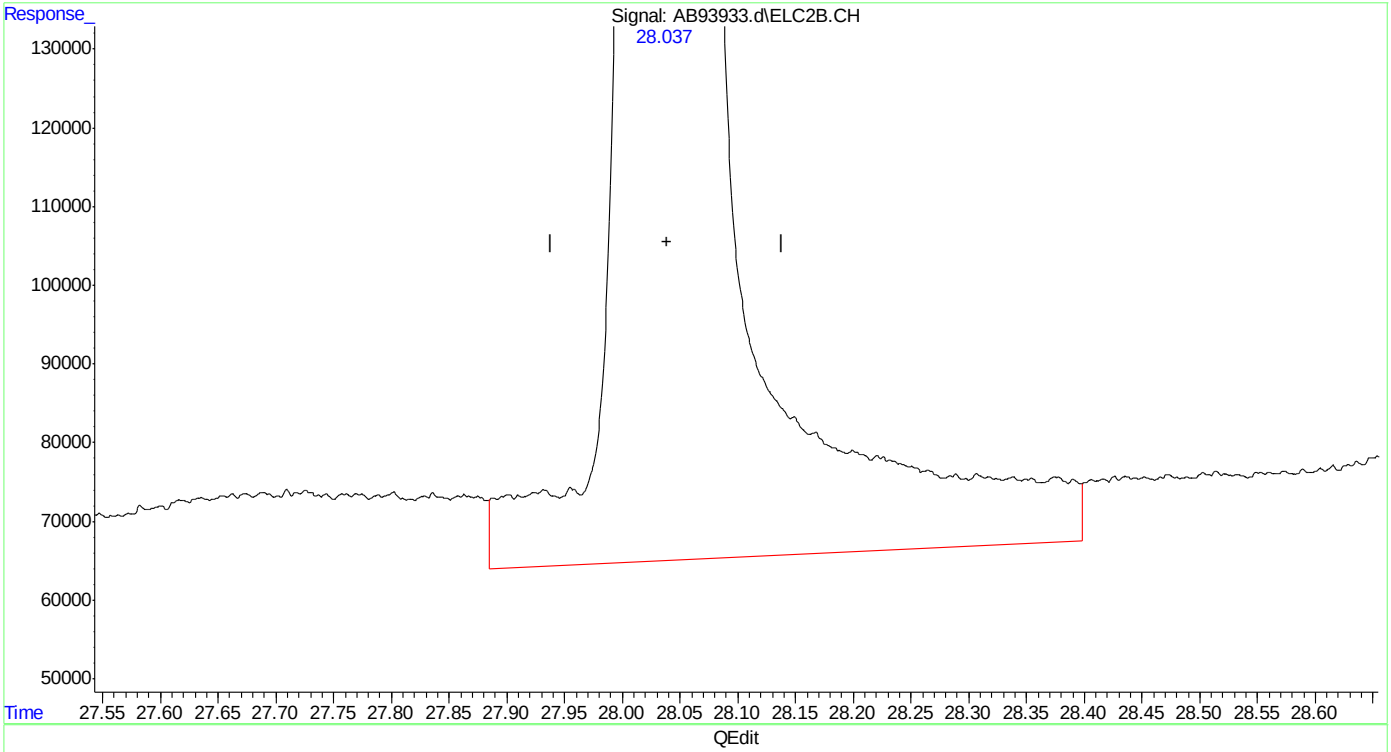
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93933.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 09:58:30
Operator  : tonyf
Sample    : bsd,s,vmavph,20
Misc      : gc26207,gab5162,20,,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 04 10:50:20 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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

28.038min 50.942 ppb

response 36826382

(+) = Expected Retention Time

ab160504vph.M Wed May 04 10:51:52 2016

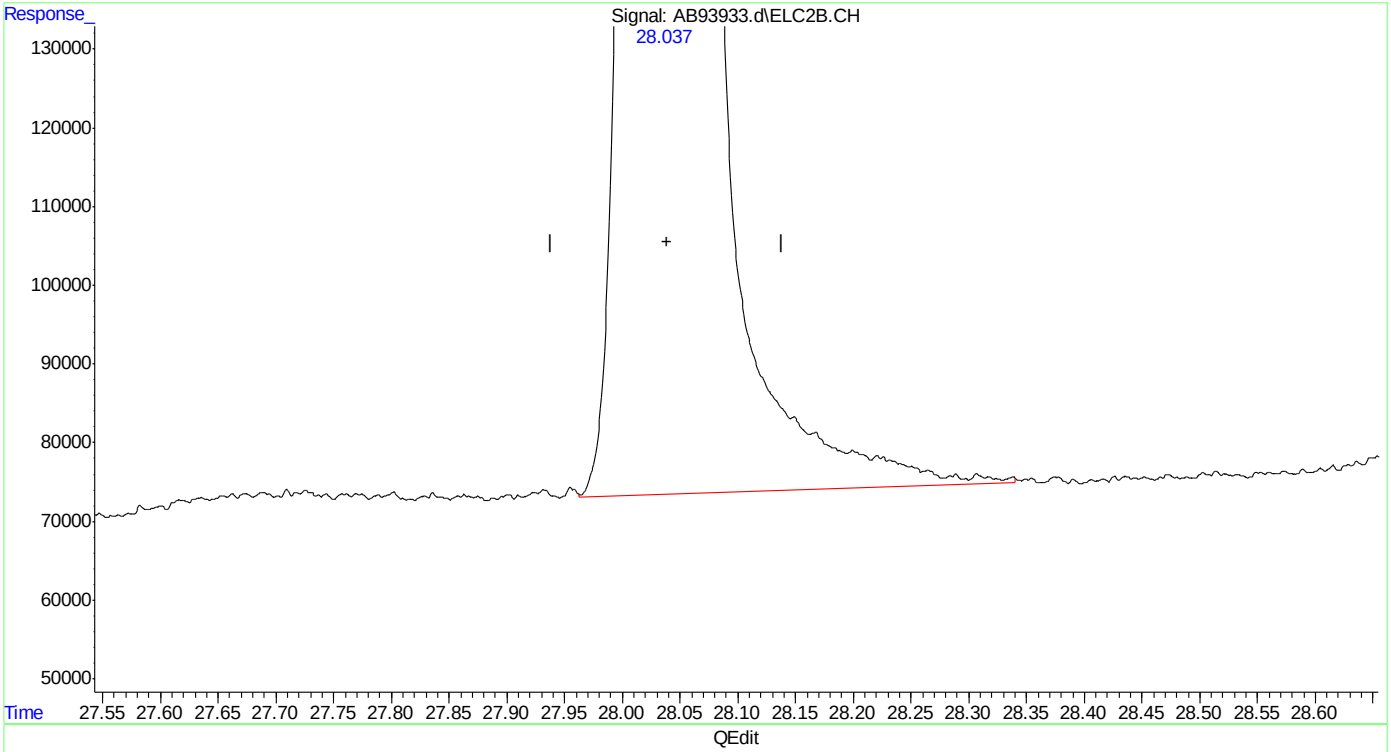
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93933.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:58:30
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26207,gab5162,20,,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 04 10:50:20 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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
28.037min 47.394 ppb m
response 34261538

(+) = Expected Retention Time

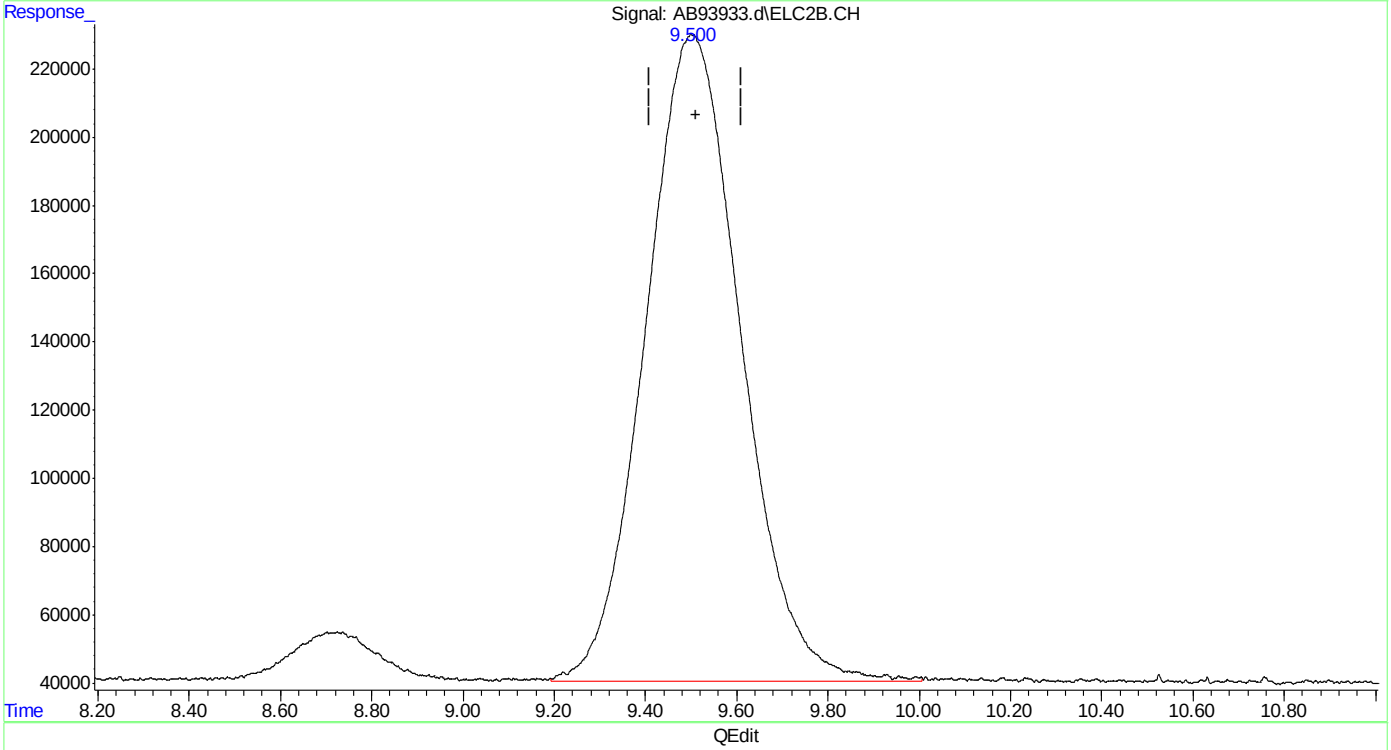
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93933.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 09:58:30
Operator : tonyf
Sample : bsd,s,vmavph,20
Misc : gc26207,gab5162,20,,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 04 10:50:20 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 54.393 ppb m
response 27438775

(+) = Expected Retention Time

SGS ACCUTEST MC45678

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93927.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:20:48
Operator : tonyf
Sample : mc45678-2ms,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:58:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.143	21474664	48.791 ppb	
Spiked Amount 50.000		Recovery	= 97.58%	
6) s 2,3,4-trifluorotoluene	20.199	19281897	47.035 ppb	
Spiked Amount 50.000		Recovery	= 94.07%	
16) s fluorobenzene #2	15.140	41225628	48.947 ppb	
Spiked Amount 50.000		Recovery	= 97.89%	
18) s 2,3,4-trifluorotoluen...	20.196	21484964	46.018 ppb	
Spiked Amount 50.000		Recovery	= 92.04%	
Target Compounds				
1) h rt5.5-7	6.420	16108304	40.119 ppb	m
2) h rt7/10	8.720	30718469	76.508 ppb	
3) h rt10/13	13.870	79276561	197.446 ppb	
8) h rt20/25	21.870	287029387	458.145 ppb	
14) mtbe #2	9.506	25319400	50.192 ppb	m
15) benzene #2	14.638	63513085	48.794 ppb	
17) toluene #2	19.099	54427778	47.607 ppb	
19) ethylbenzene #2	22.195	44752226	48.336 ppb	
20) m,p-xylene #2	22.339	106810316	100.696 ppb	
21) o-xylene #2	23.145	44325729	47.451 ppb	
23) 1,2,4-trimethylbenzen...	25.094	44524585	46.523 ppb	
24) naphthalene #2	28.038	32566339	45.049 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	155070956	161.862 ppb	

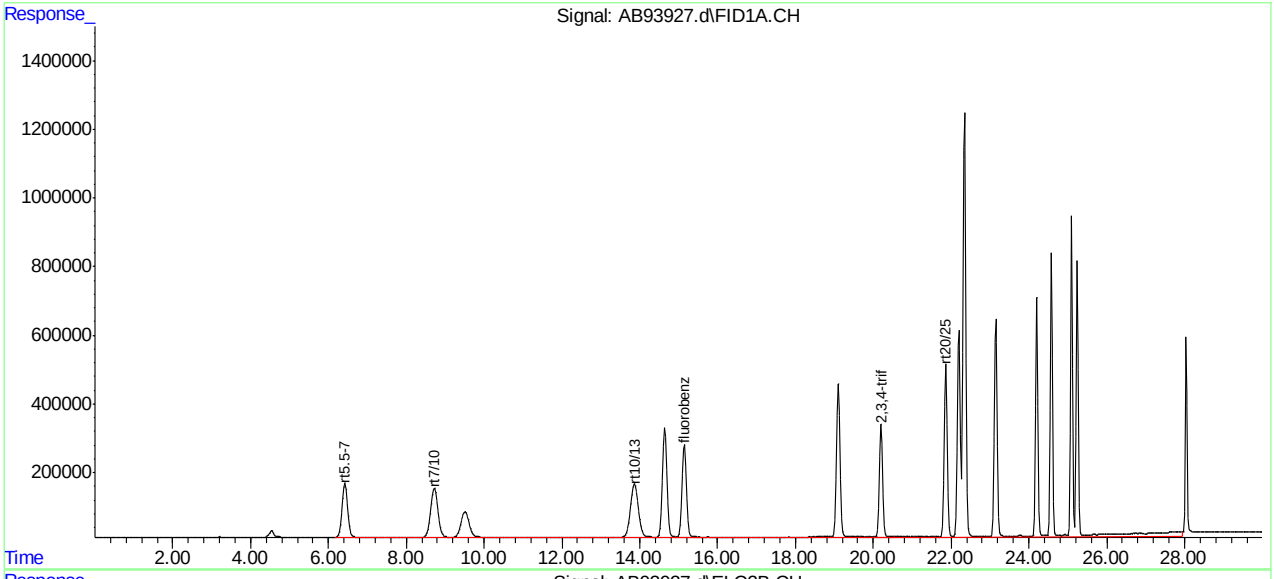
(f)=RT Delta > 1/2 Window (m)=manual int.

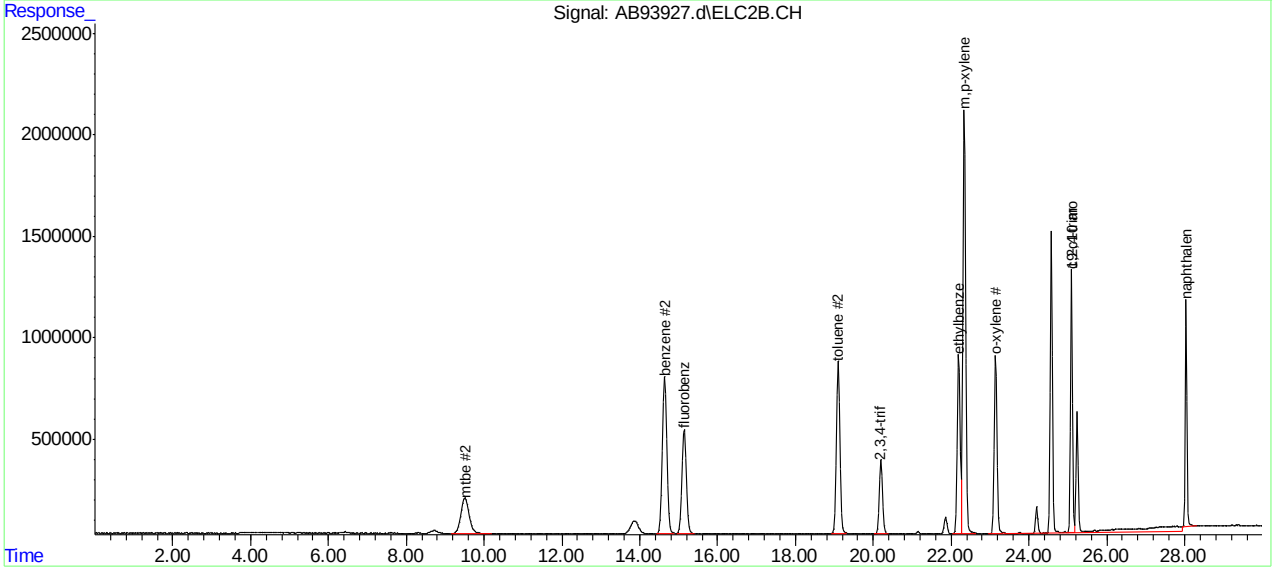
Quantitation Report (QT Reviewed)

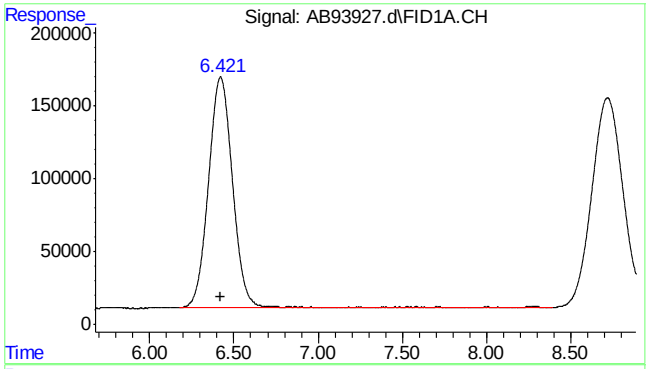
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93927.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:20:48
Operator : tonyf
Sample : mc45678-2ms,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 06:58:50 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 :

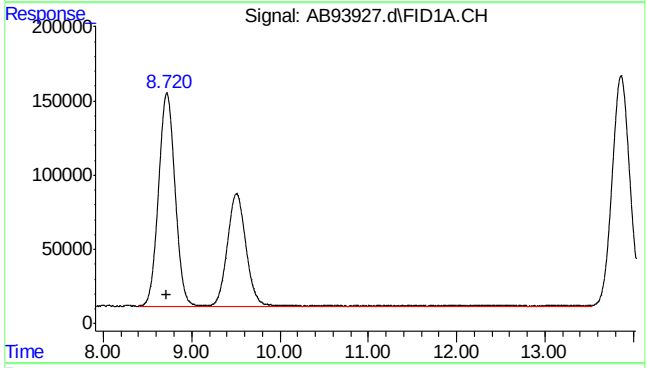






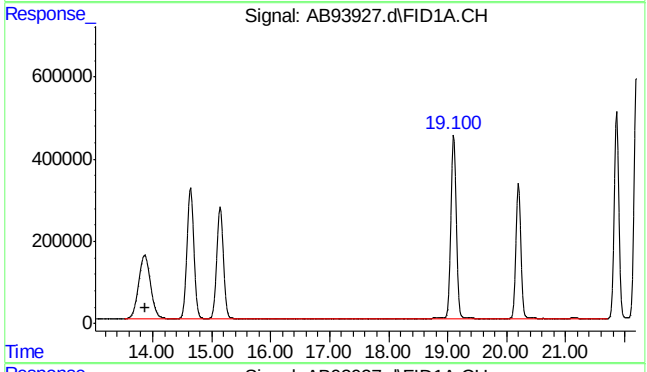
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16108304
Conc: 40.12 ppb m



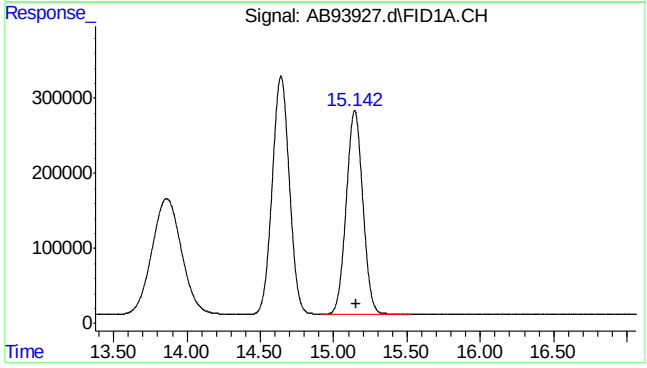
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 30718469
Conc: 76.51 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 79276561
Conc: 197.45 ppb



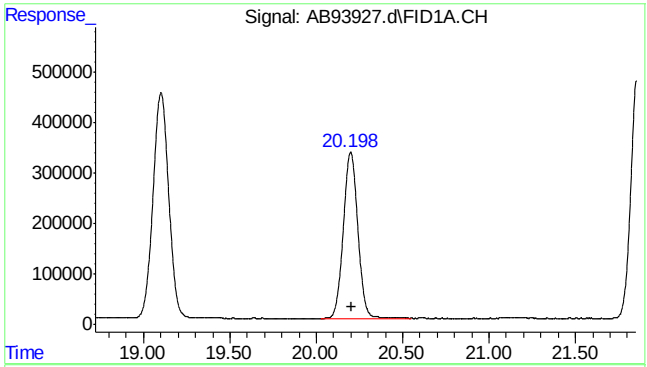
#4 fluorobenzene

R.T.: 15.143 min
Delta R.T.: -0.008 min
Response: 21474664
Conc: 48.79 ppb

7.4.1

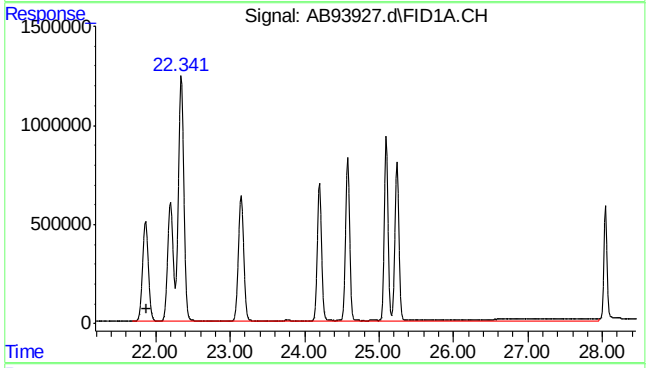
7

SGS ACCUTEST MC45678



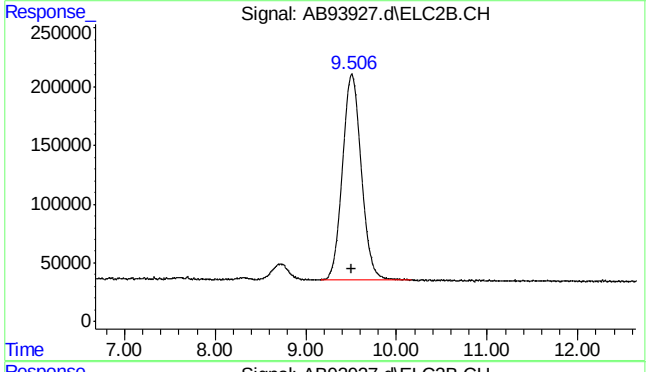
#6 2,3,4-trifluorotoluene

R.T.: 20.199 min
Delta R.T.: -0.007 min
Response: 19281897
Conc: 47.03 ppb



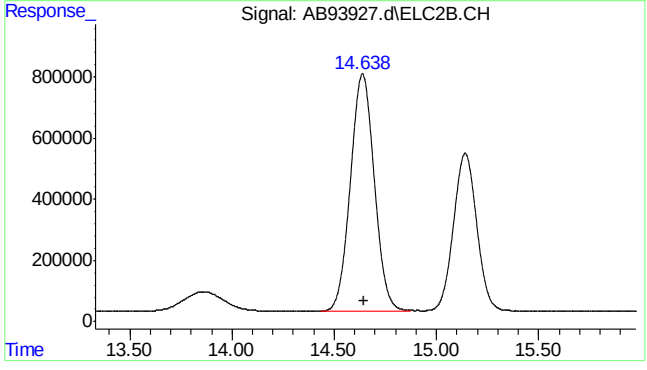
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 287029387
Conc: 458.14 ppb



#14 mtbe #2

R.T.: 9.506 min
Delta R.T.: -0.005 min
Response: 25319400
Conc: 50.19 ppb m



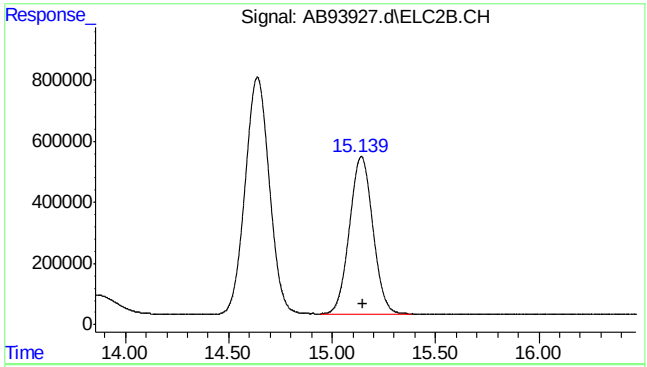
#15 benzene #2

R.T.: 14.638 min
Delta R.T.: -0.008 min
Response: 63513085
Conc: 48.79 ppb

7.4.1

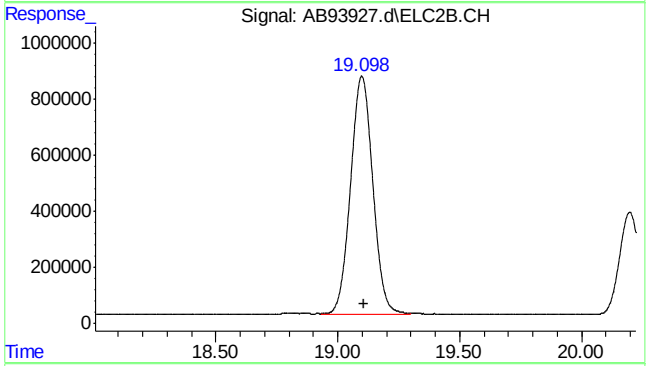
7

SGS ACCUTEST MC45678



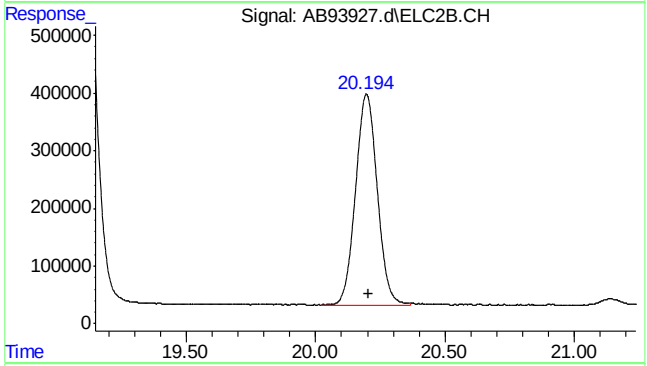
#16 fluorobenzene #2

R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 41225628
Conc: 48.95 ppb



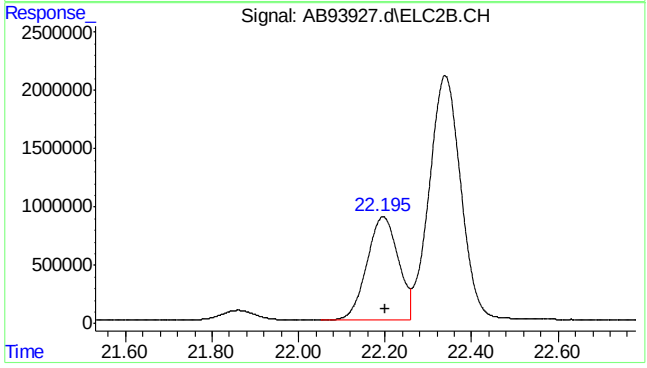
#17 toluene #2

R.T.: 19.099 min
Delta R.T.: -0.007 min
Response: 54427778
Conc: 47.61 ppb



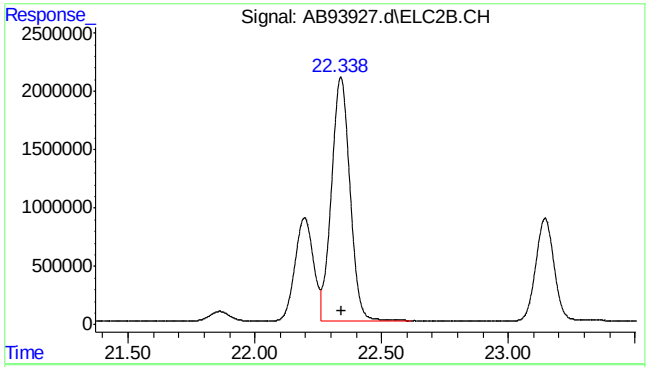
#18 2,3,4-trifluorotoluene #2

R.T.: 20.196 min
Delta R.T.: -0.007 min
Response: 21484964
Conc: 46.02 ppb



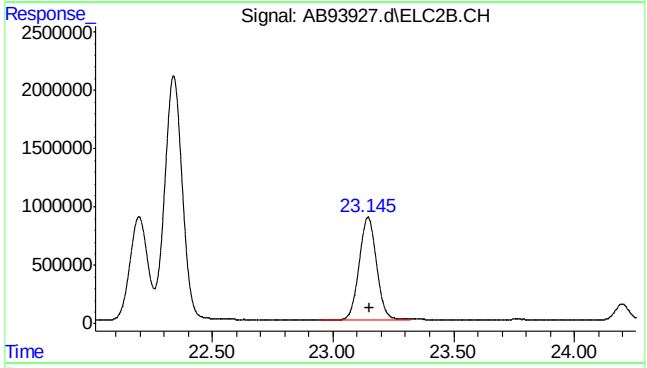
#19 ethylbenzene #2

R.T.: 22.195 min
Delta R.T.: -0.006 min
Response: 44752226
Conc: 48.34 ppb



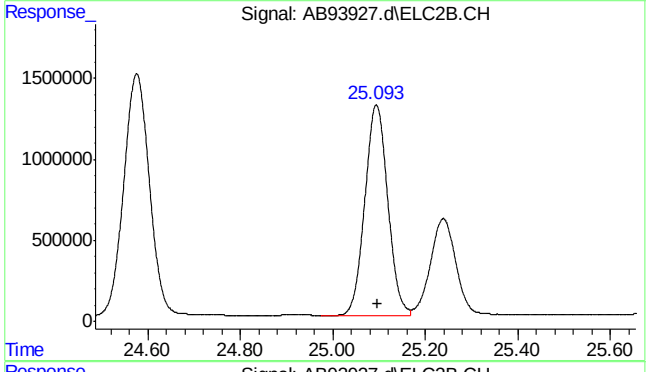
#20 m,p-xylene #2

R.T.: 22.339 min
Delta R.T.: -0.005 min
Response: 106810316
Conc: 100.70 ppb



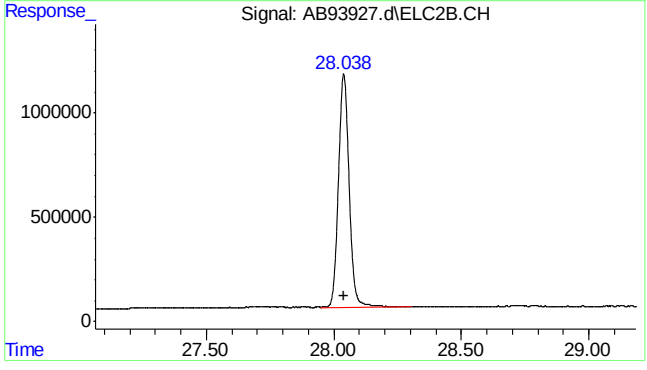
#21 o-xylene #2

R.T.: 23.145 min
Delta R.T.: -0.005 min
Response: 44325729
Conc: 47.45 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.094 min
Delta R.T.: -0.002 min
Response: 44524585
Conc: 46.52 ppb



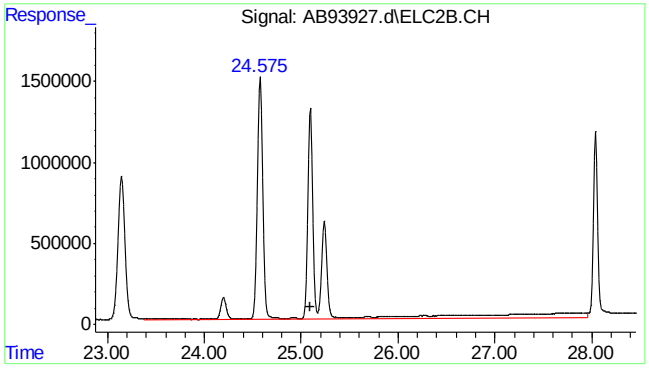
#24 naphthalene #2

R.T.: 28.038 min
Delta R.T.: 0.000 min
Response: 32566339
Conc: 45.05 ppb m

7.4.1

7

SGS ACCUTEST MC45678



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 155070956
Conc: 161.86 ppb

7.4.1

7

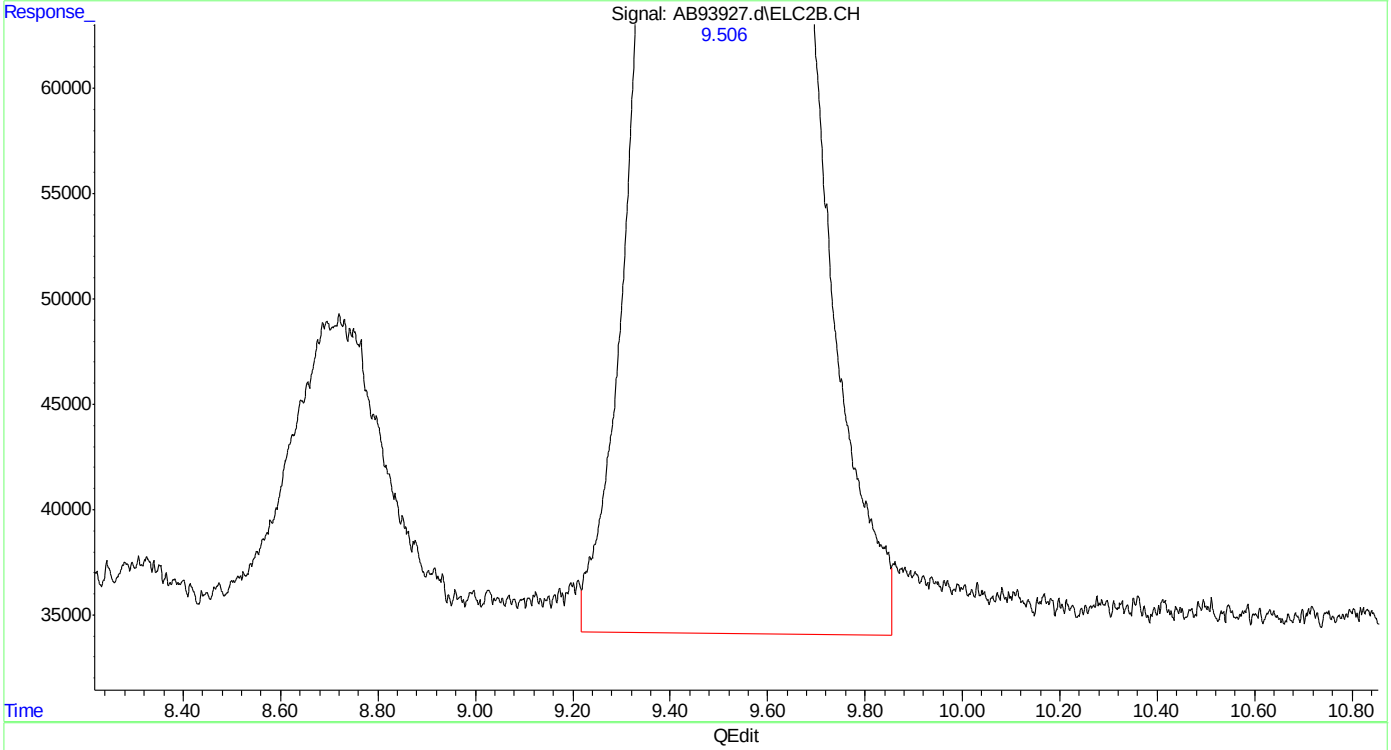
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93927.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 17:20:48
Operator  : tonyf
Sample    : mc45678-2ms,w,vmavph,00
Misc      : gc26206,gab5161,,,,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 04 06:45:53 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.838 ppb

response 25645177

(+) = Expected Retention Time

ab160503vph.M Wed May 04 06:58:35 2016

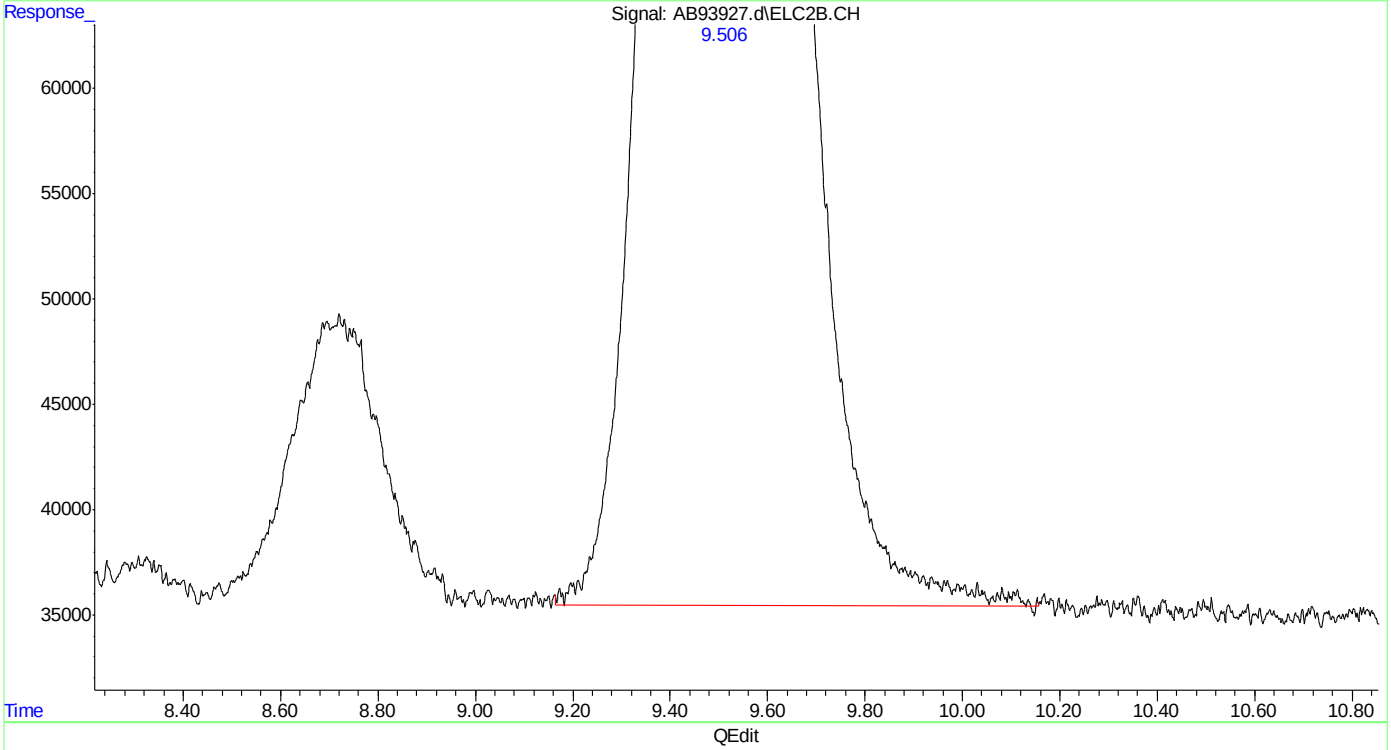
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93927.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:20:48
Operator : tonyf
Sample : mc45678-2ms,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:53 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.192 ppb m
response 25319400

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:58:40 2016

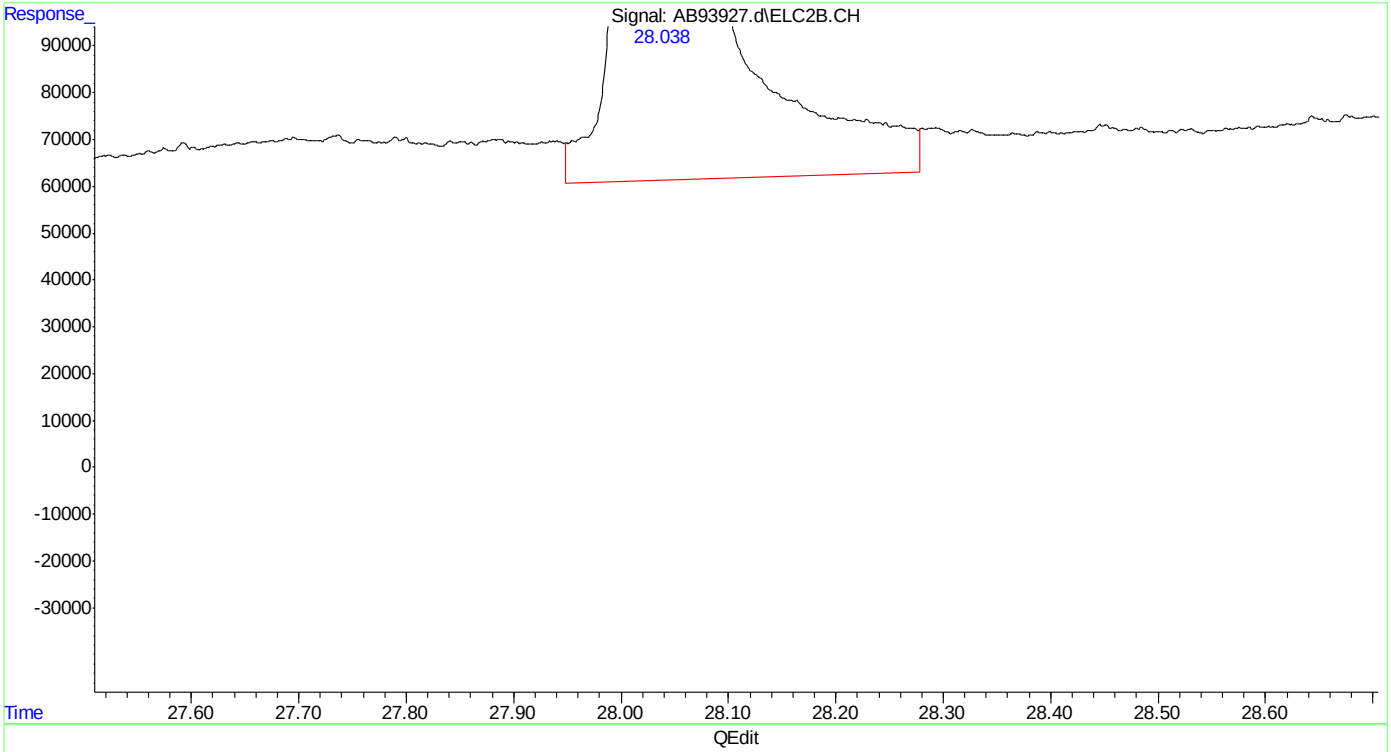
Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93927.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:20:48
Operator : tonyf
Sample : mc45678-2ms,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:53 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
28.039min 47.303 ppb
response 34196197

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:58:47 2016

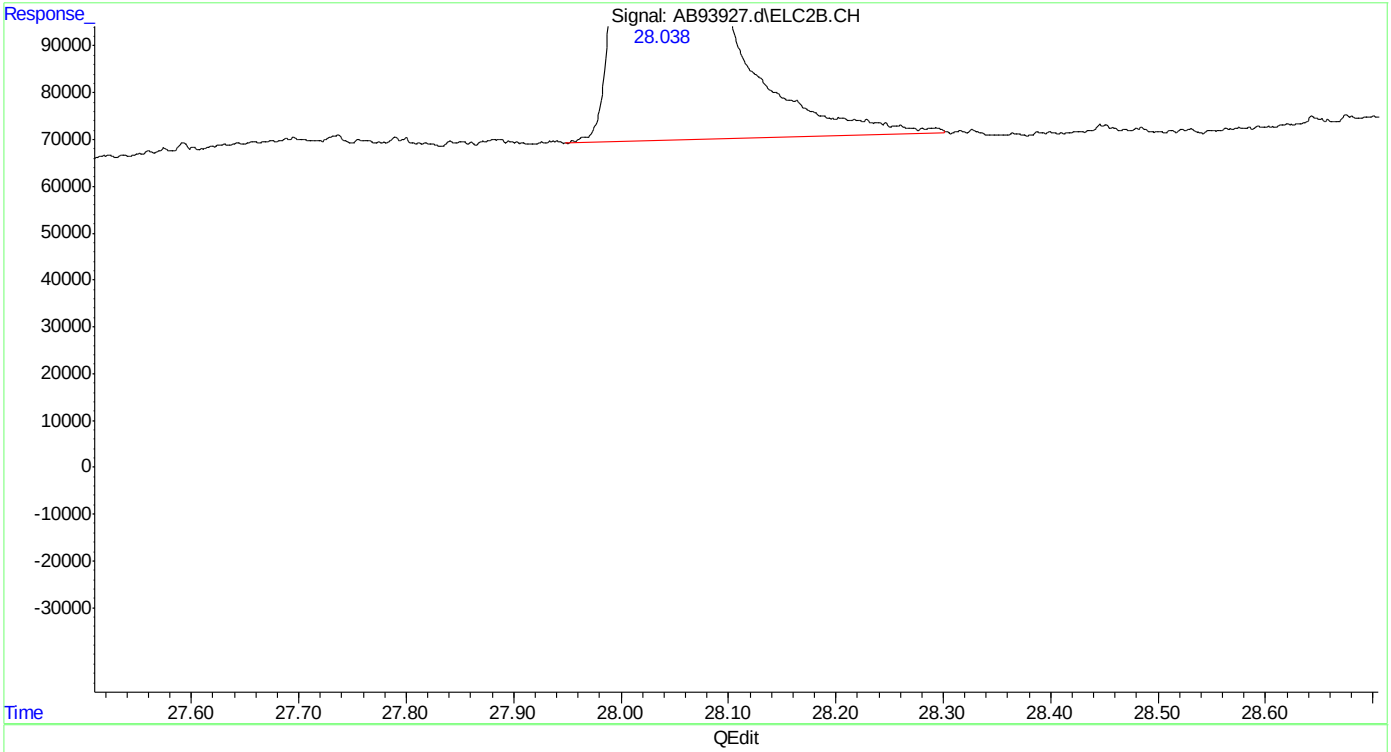
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93927.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:20:48
Operator : tonyf
Sample : mc45678-2ms,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:53 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
28.038min 45.049 ppb m
response 32566339

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:58:52 2016

SGS ACCUTEST MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93928.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:58:49
Operator : tonyf
Sample : mc45678-2msd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:59:38 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.143	21594384	49.063	ppb	
Spiked Amount 50.000		Recovery =	98.13%		
6) s 2,3,4-trifluorotoluene	20.198	19367331	47.243	ppb	
Spiked Amount 50.000		Recovery =	94.49%		
16) s fluorobenzene #2	15.141	41441500	49.204	ppb	
Spiked Amount 50.000		Recovery =	98.41%		
18) s 2,3,4-trifluorotoluen...	20.196	21616534	46.300	ppb	
Spiked Amount 50.000		Recovery =	92.60%		
Target Compounds					
1) h rt5.5-7	6.420	16263819	40.507	ppb	m
2) h rt7/10	8.720	30990151	77.184	ppb	
3) h rt10/13	13.870	79589803	198.227	ppb	
8) h rt20/25	21.870	288469917	460.444	ppb	
14) mtbe #2	9.502	25712349	50.971	ppb	m
15) benzene #2	14.637	63773512	48.994	ppb	
17) toluene #2	19.098	54592051	47.750	ppb	
19) ethylbenzene #2	22.195	44968183	48.570	ppb	
20) m,p-xylene #2	22.338	107328361	101.185	ppb	
21) o-xylene #2	23.144	44776068	47.933	ppb	
23) 1,2,4-trimethylbenzen...	25.093	44726504	46.734	ppb	
24) naphthalene #2	28.039	33046335	45.713	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	155656994	162.474	ppb	

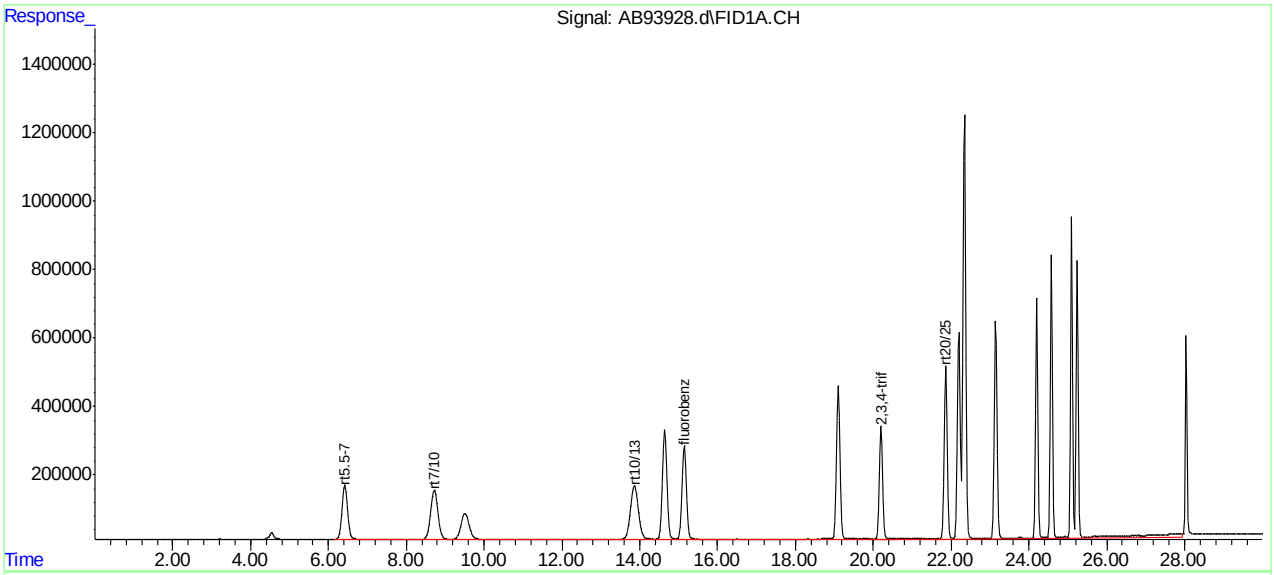
(f)=RT Delta > 1/2 Window (m)=manual int.

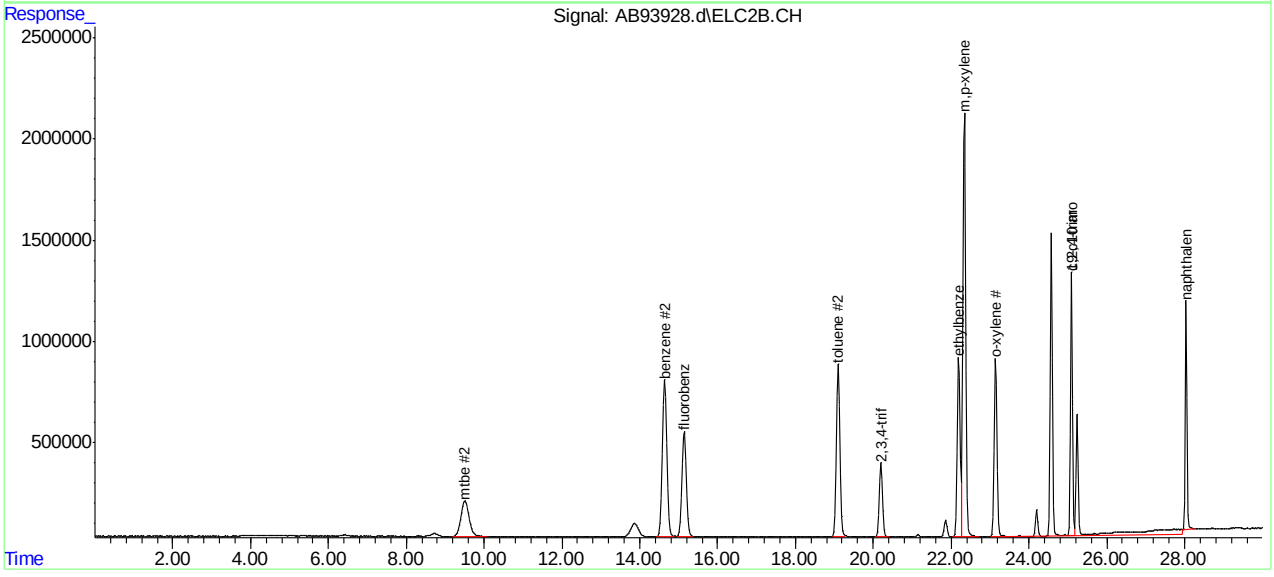
Quantitation Report (QT Reviewed)

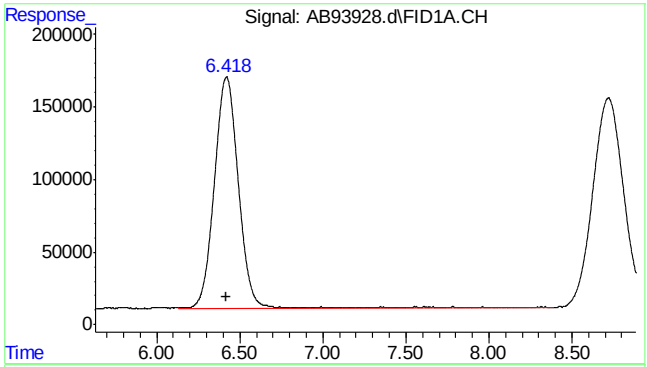
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93928.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:58:49
Operator : tonyf
Sample : mc45678-2msd,w,vmavph,00
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 06:59:38 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 :

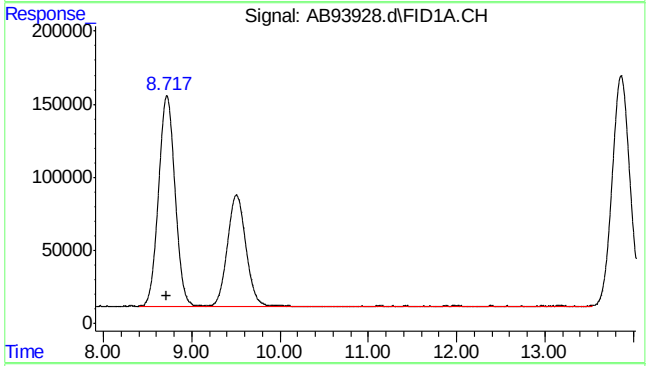






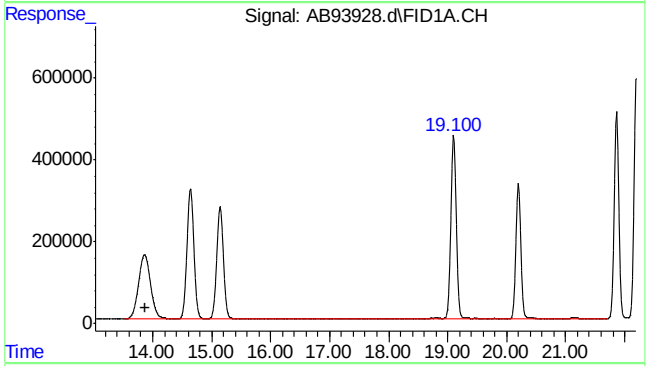
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16263819
Conc: 40.51 ppb m



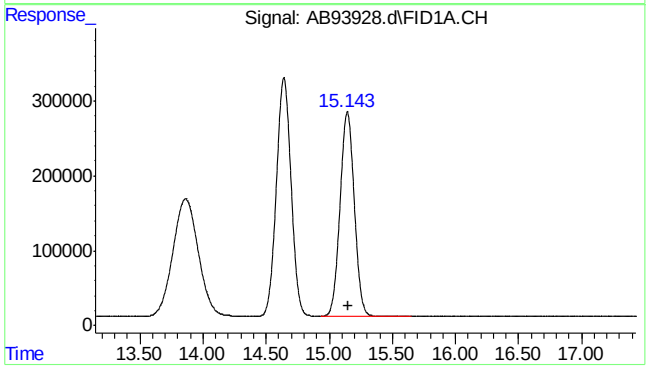
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 30990151
Conc: 77.18 ppb



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 79589803
Conc: 198.23 ppb



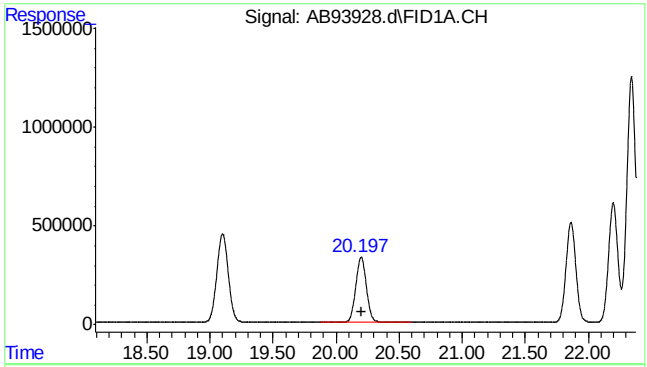
#4 fluorobenzene

R.T.: 15.143 min
Delta R.T.: -0.009 min
Response: 21594384
Conc: 49.06 ppb

7.4.2

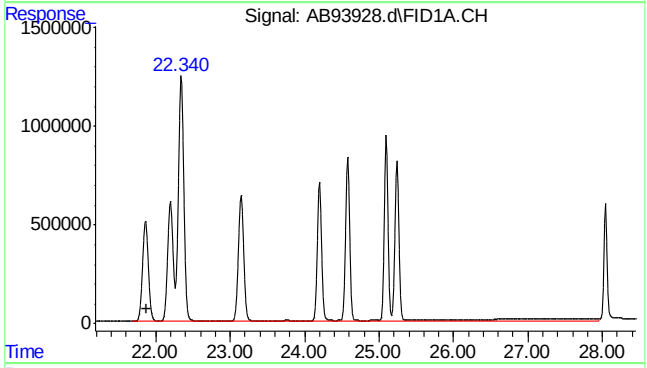
7

SGS ACCUTEST MC45678



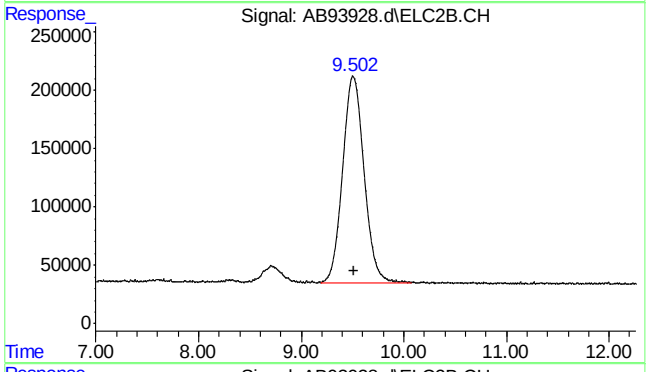
#6 2,3,4-trifluorotoluene

R.T.: 20.198 min
Delta R.T.: -0.007 min
Response: 19367331
Conc: 47.24 ppb



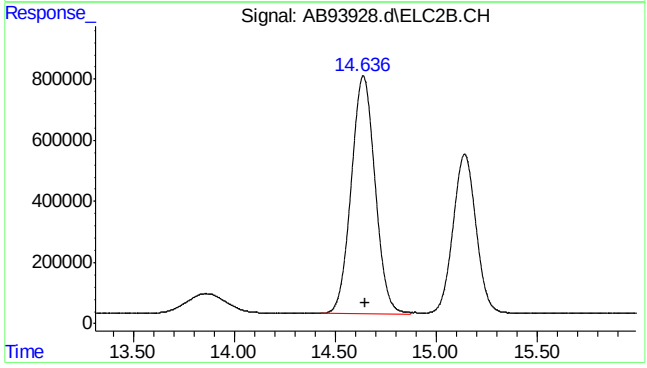
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 288469917
Conc: 460.44 ppb



#14 mtbe #2

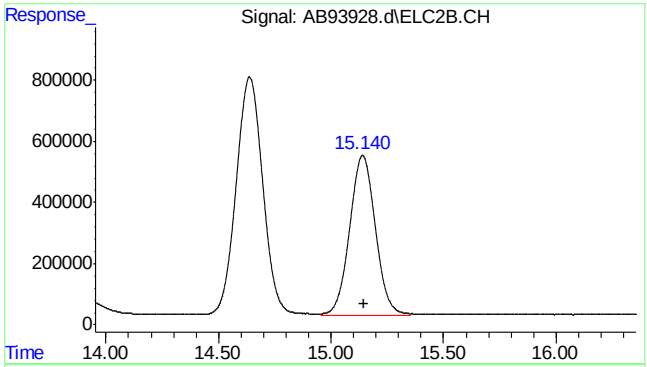
R.T.: 9.502 min
Delta R.T.: -0.009 min
Response: 25712349
Conc: 50.97 ppb m



#15 benzene #2

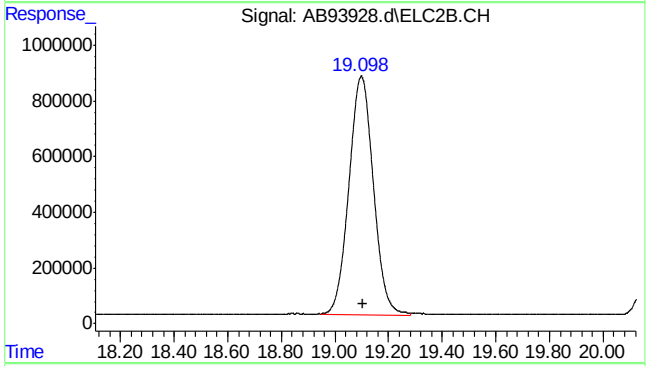
R.T.: 14.637 min
Delta R.T.: -0.009 min
Response: 63773512
Conc: 48.99 ppb

SGS ACCUTEST MC45678



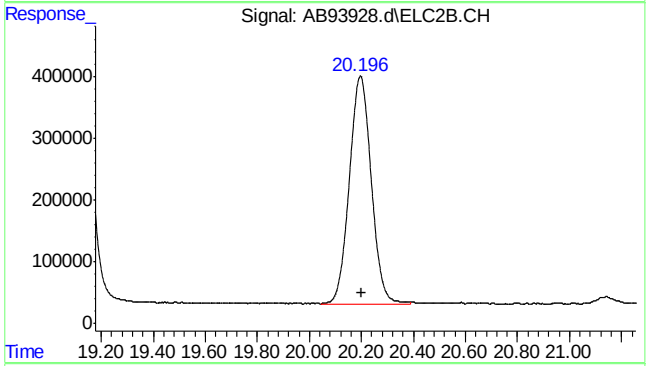
#16 fluorobenzene #2

R.T.: 15.141 min
Delta R.T.: -0.007 min
Response: 41441500
Conc: 49.20 ppb



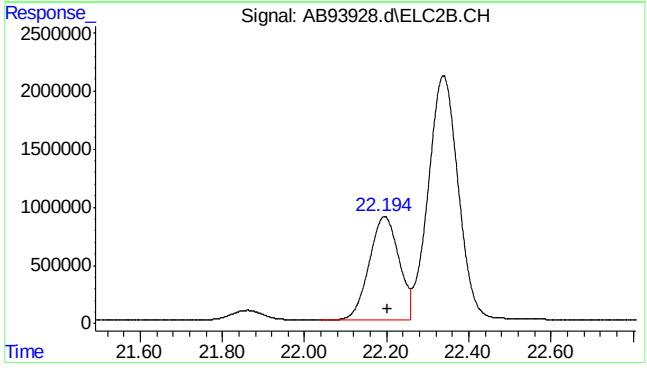
#17 toluene #2

R.T.: 19.098 min
Delta R.T.: -0.008 min
Response: 54592051
Conc: 47.75 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 20.196 min
Delta R.T.: -0.007 min
Response: 21616534
Conc: 46.30 ppb



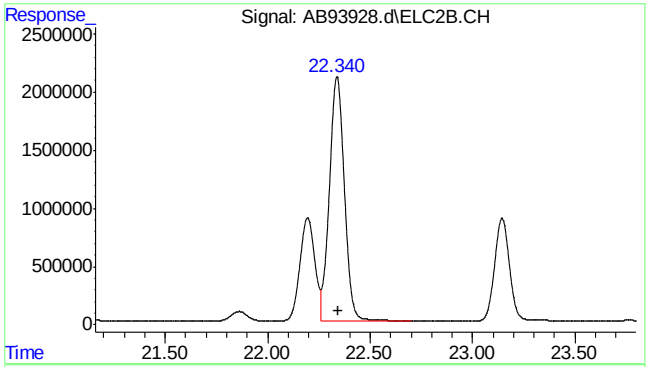
#19 ethylbenzene #2

R.T.: 22.195 min
Delta R.T.: -0.006 min
Response: 44968183
Conc: 48.57 ppb

7.4.2

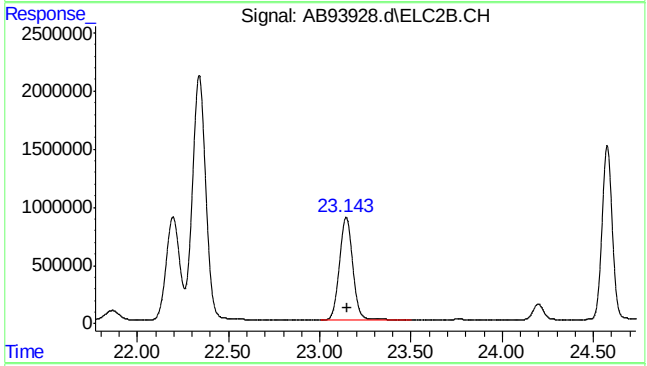
7

SGS ACCUTEST MC45678



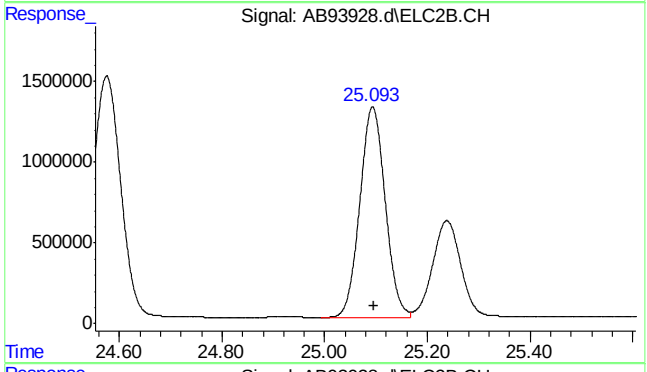
#20 m,p-xylene #2

R.T.: 22.338 min
Delta R.T.: -0.006 min
Response: 107328361
Conc: 101.18 ppb



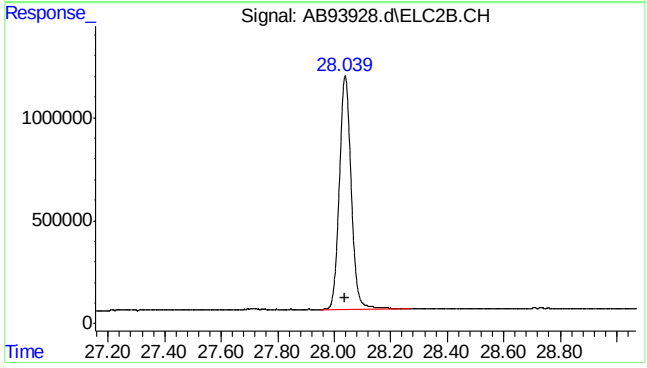
#21 o-xylene #2

R.T.: 23.144 min
Delta R.T.: -0.006 min
Response: 44776068
Conc: 47.93 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.093 min
Delta R.T.: -0.003 min
Response: 44726504
Conc: 46.73 ppb



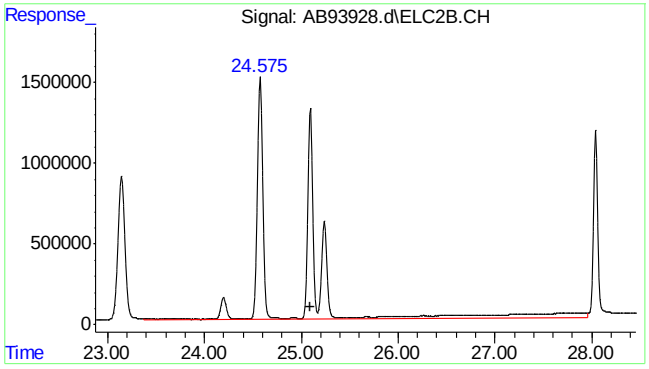
#24 naphthalene #2

R.T.: 28.039 min
Delta R.T.: 0.000 min
Response: 33046335
Conc: 45.71 ppb m

7.4.2

7

SGS ACCUTEST MC45678



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 155656994
Conc: 162.47 ppb

7.4.2

7

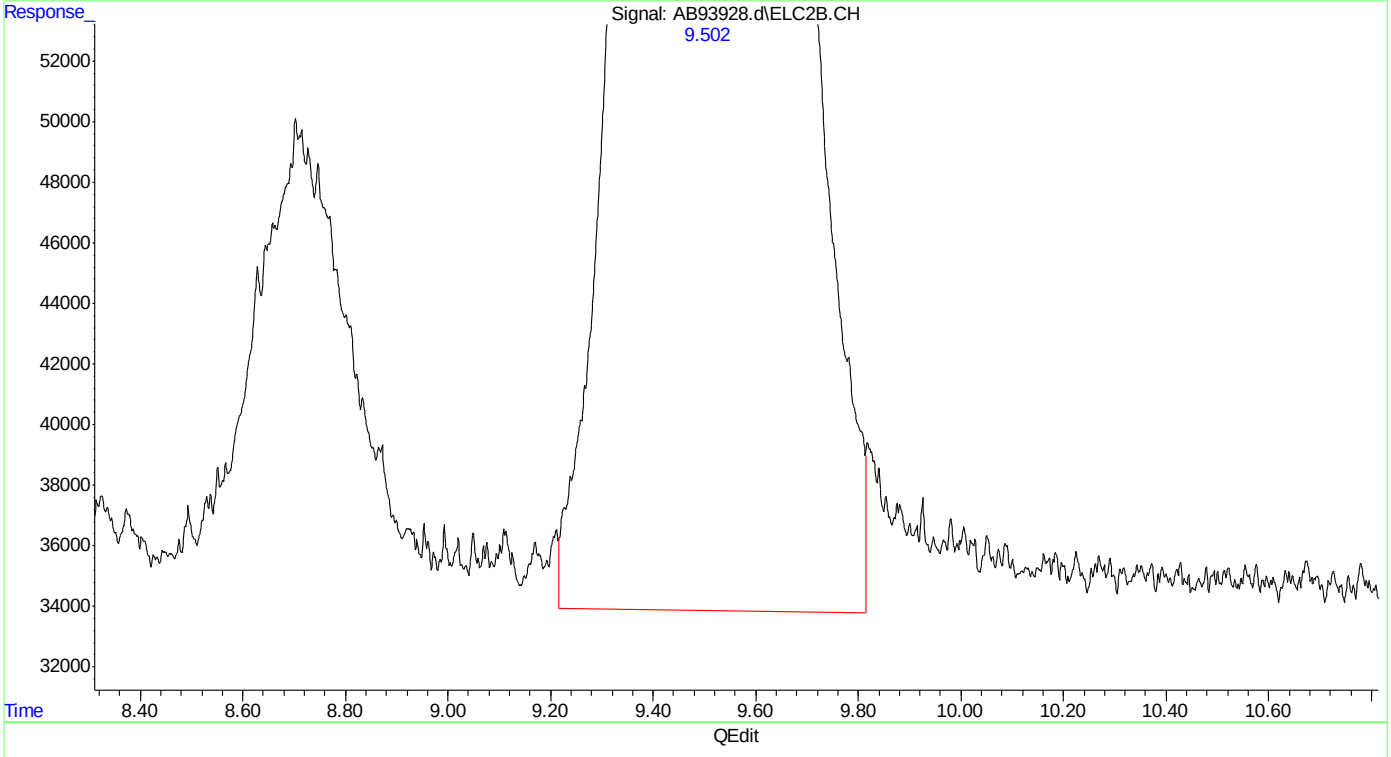
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93928.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:58:49
Operator : tonyf
Sample : mc45678-2msd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:57 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 51.335 ppb
response 25895989

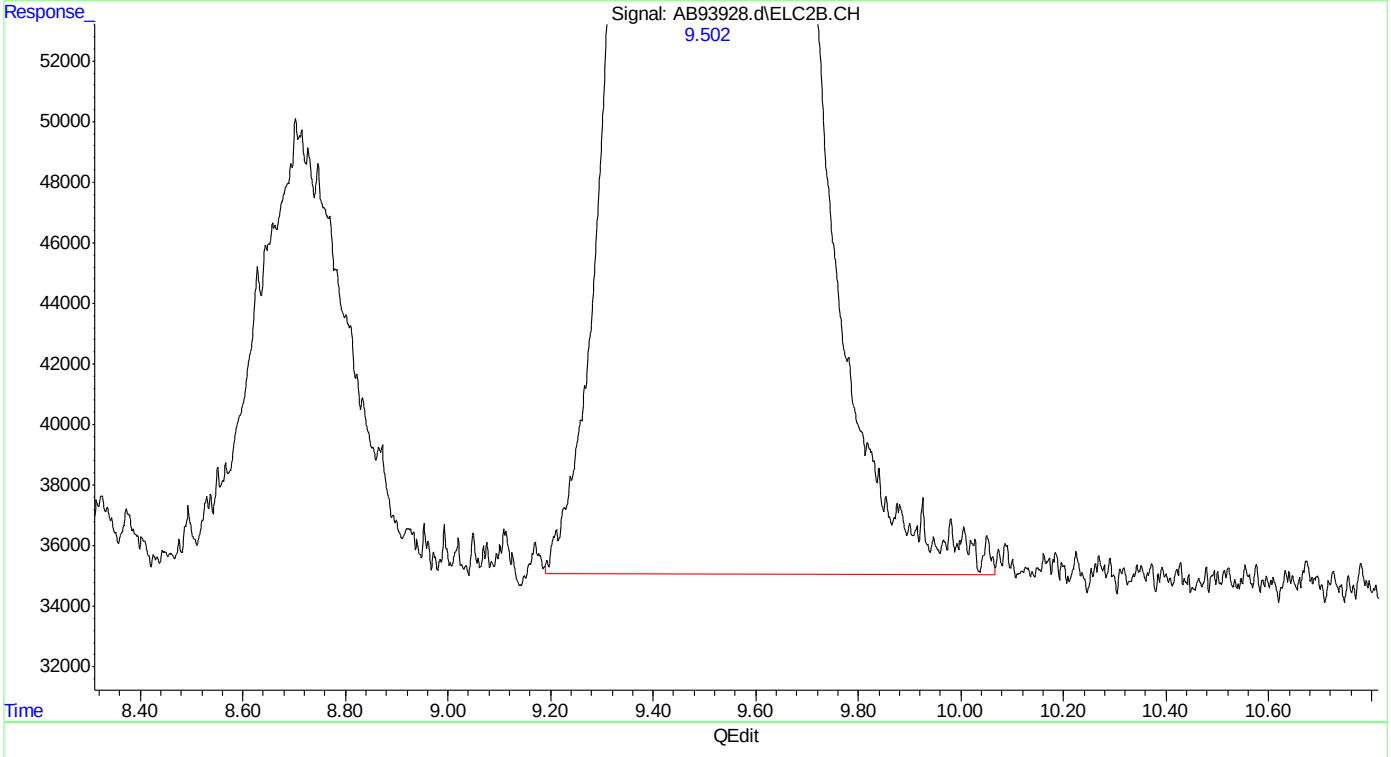
(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:59:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93928.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:58:49
Operator : tonyf
Sample : mc45678-2msd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:57 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.971 ppb m
response 25712349

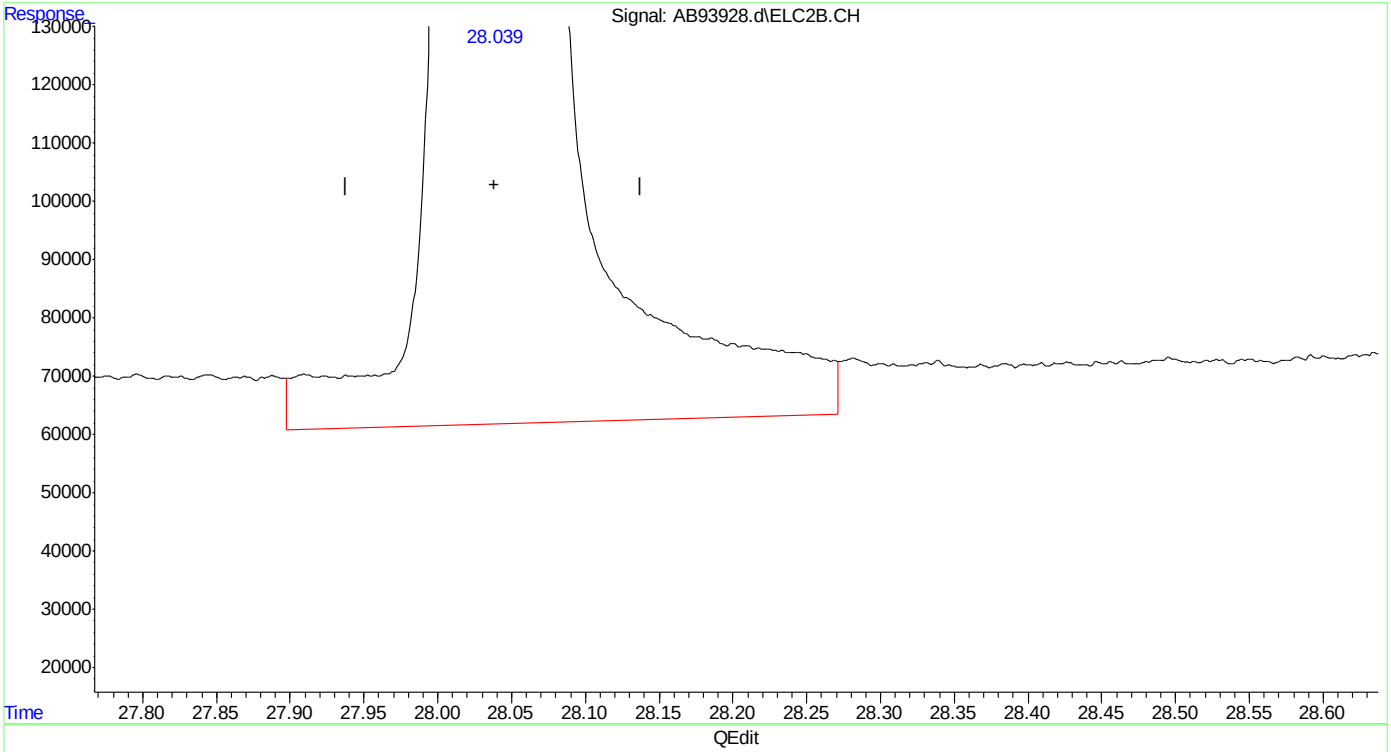
(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:59:26 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93928.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 17:58:49
Operator  : tonyf
Sample    : mc45678-2msd,w,vmavph,00
Misc      : gc26206,gab5161,,,,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 04 06:45:57 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.039min 48.389 ppb

response 34980851

(+) = Expected Retention Time

ab160503vph.M Wed May 04 06:59:34 2016

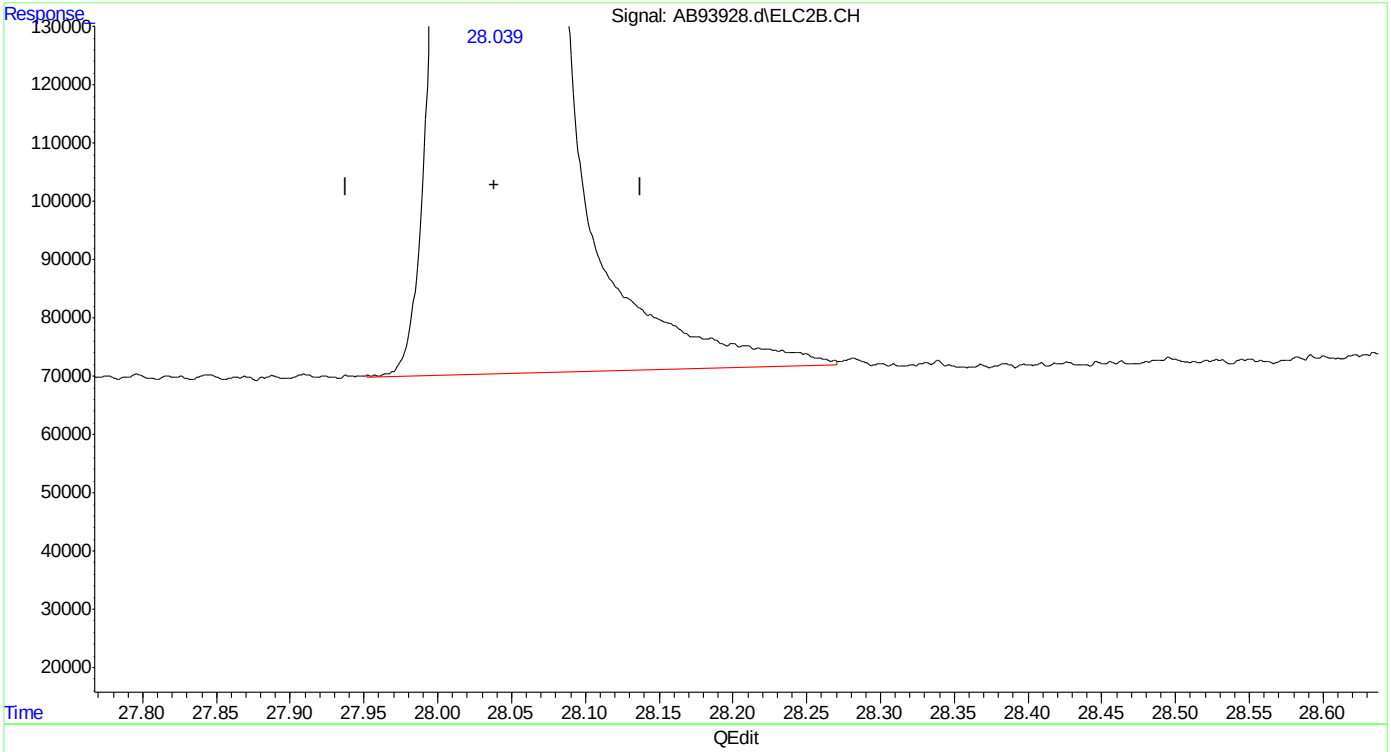
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93928.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 17:58:49
Operator : tonyf
Sample : mc45678-2msd,w,vmavph,00
Misc : gc26206,gab5161,,,,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 04 06:45:57 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
28.039min 45.713 ppb m
response 33046335

(+) = 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 : 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

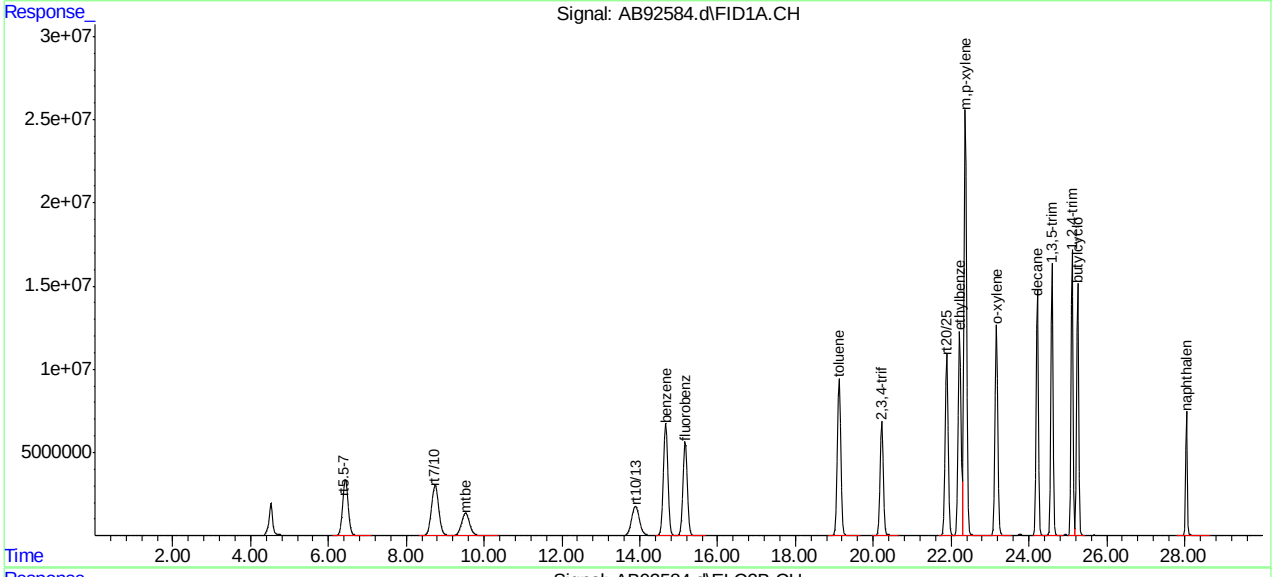
(f)=RT Delta > 1/2 Window (m)=manual int.

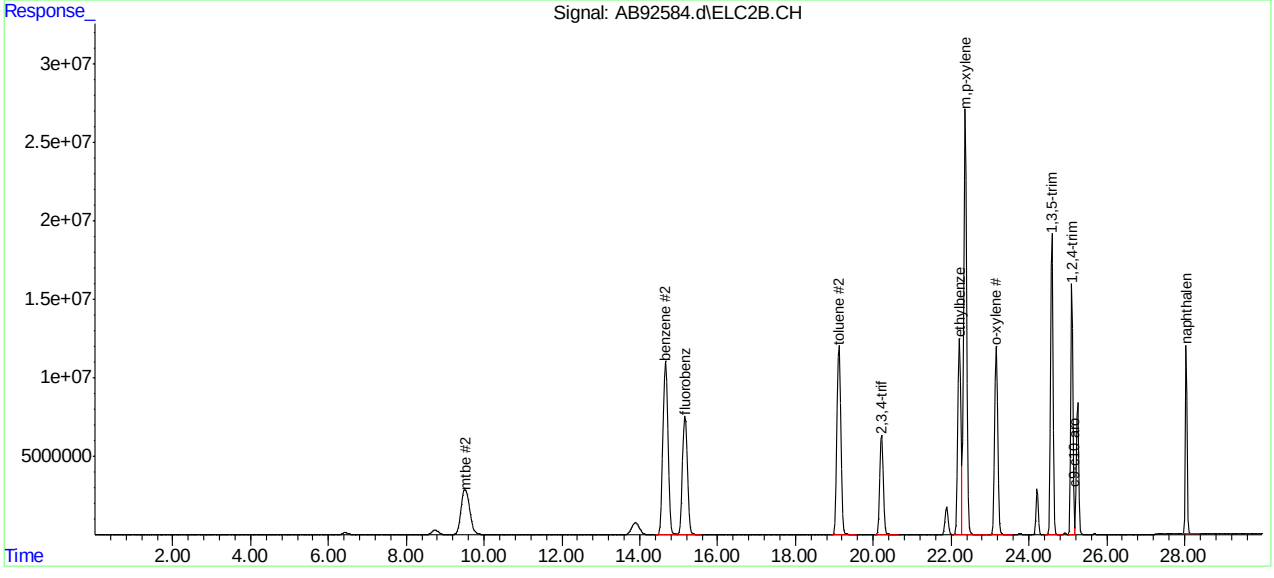
Quantitation Report (QT Reviewed)

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

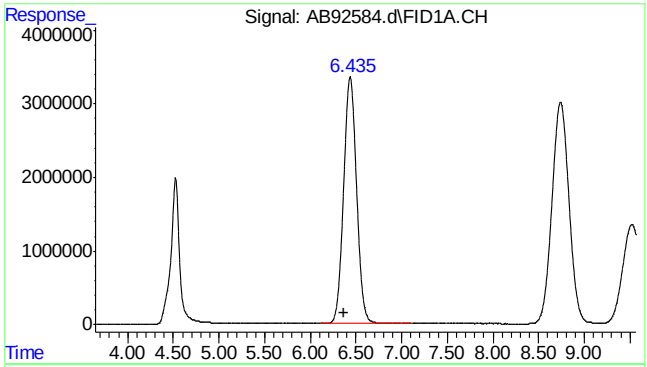
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:19:17 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:17:32 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



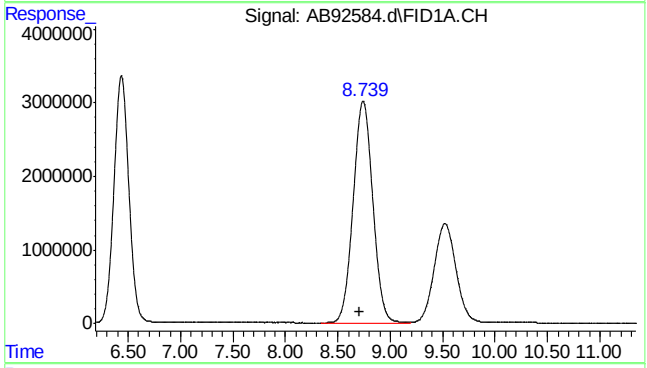


SGS ACCUTEST MC45678



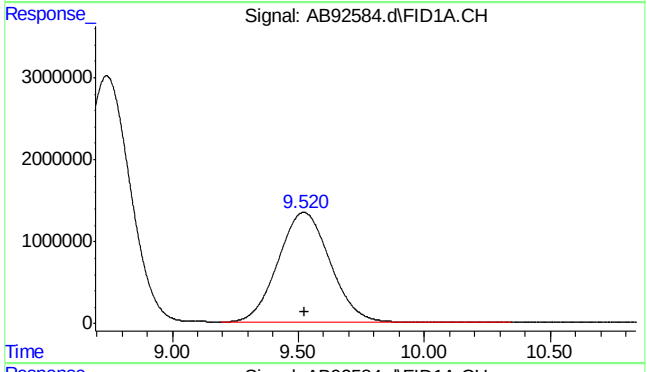
#1 rt5.5-7

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



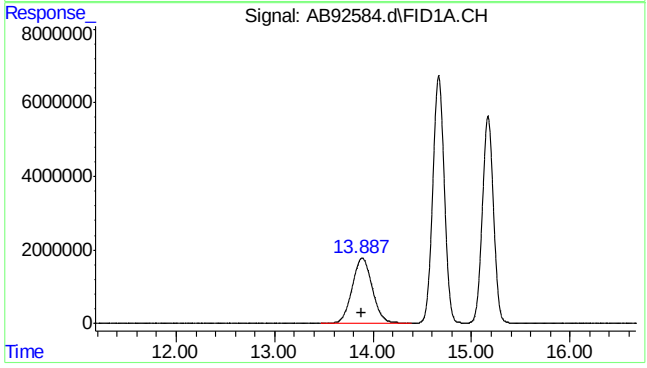
#2 rt7/10

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



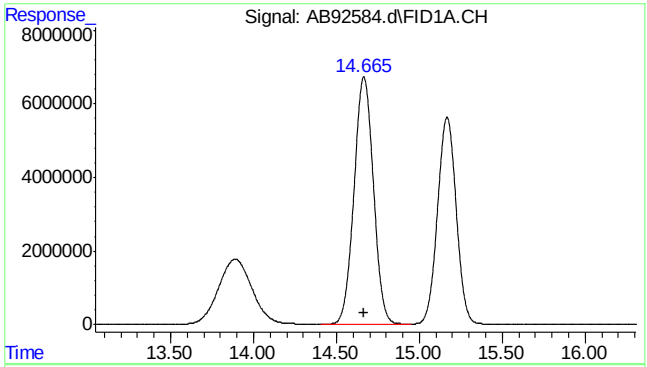
#3 mtbe

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



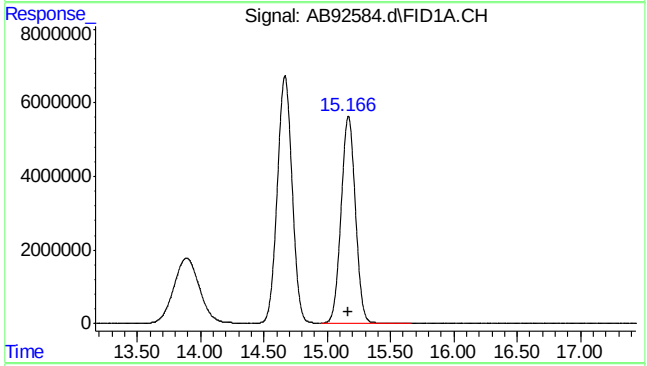
#4 rt10/13

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



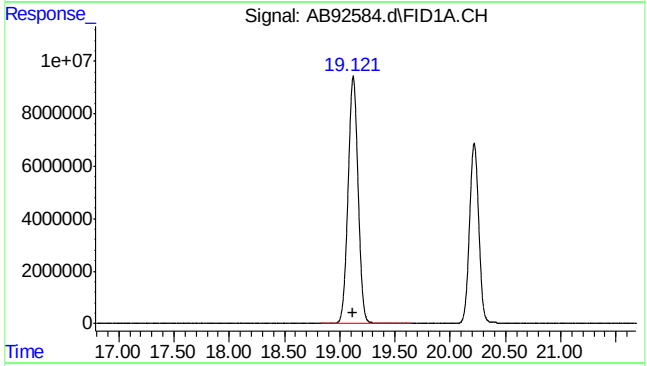
#5 benzene

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



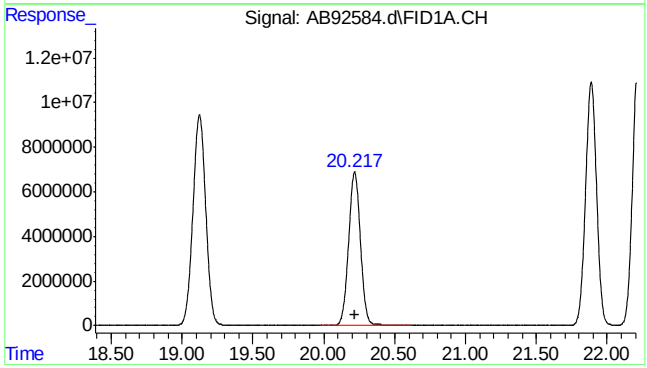
#6 fluorobenzene

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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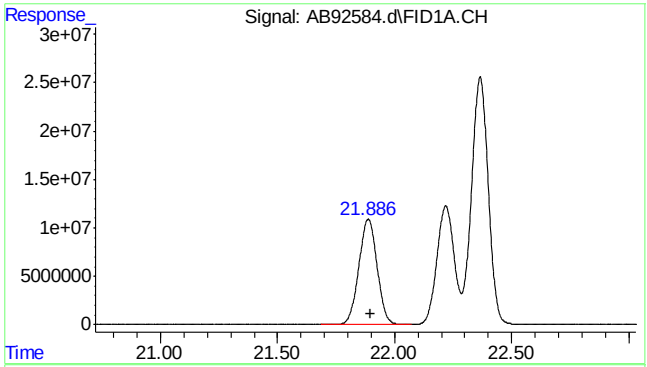
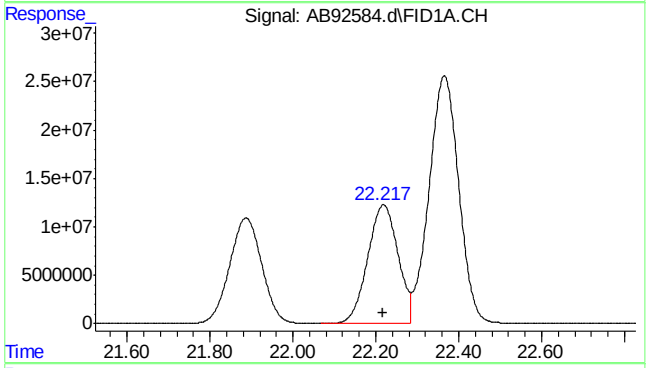


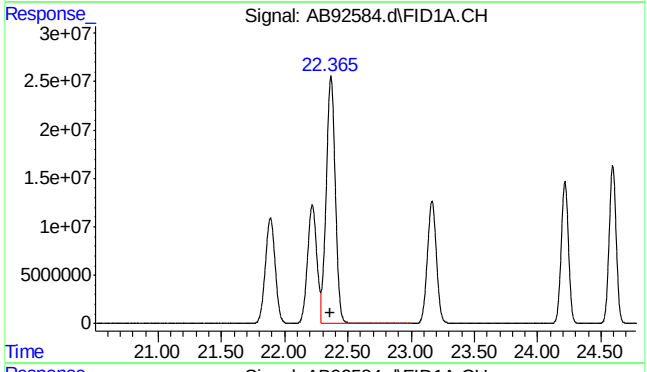
#11 rt20/25

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



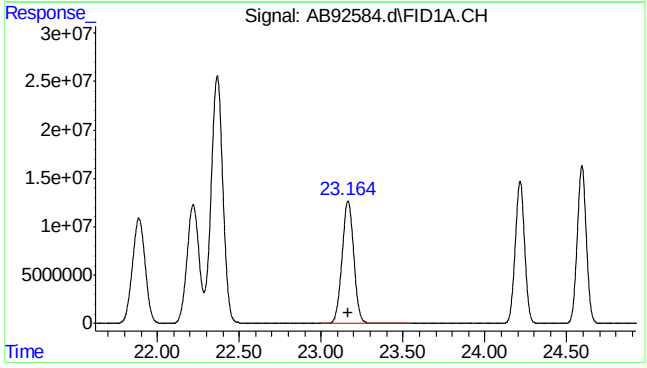
#13 ethylbenzene

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



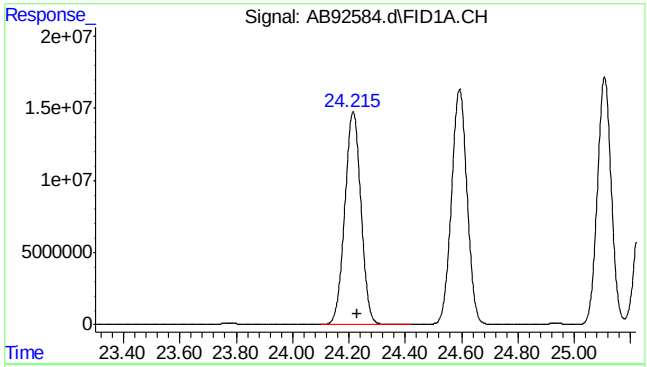
#14 m,p-xylene

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



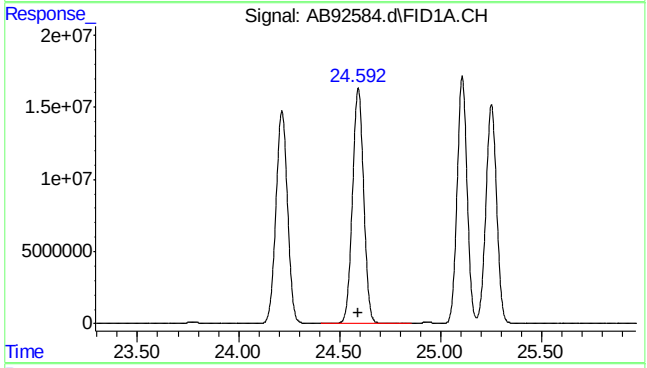
#15 o-xylene

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



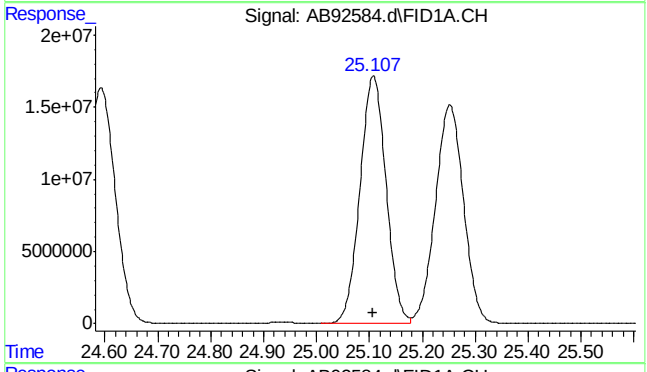
#16 decane

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



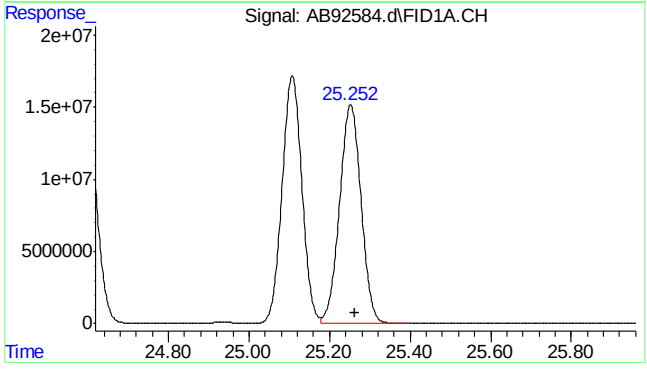
#17 1,3,5-trimethylbenzene

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

7.5.1

7

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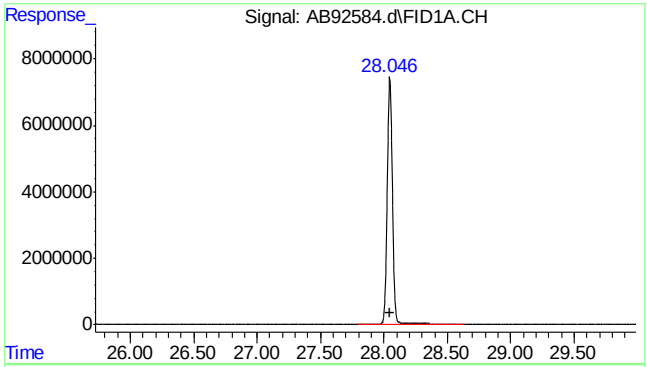
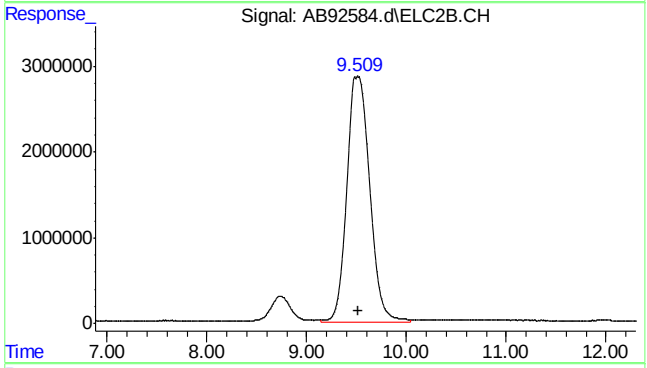


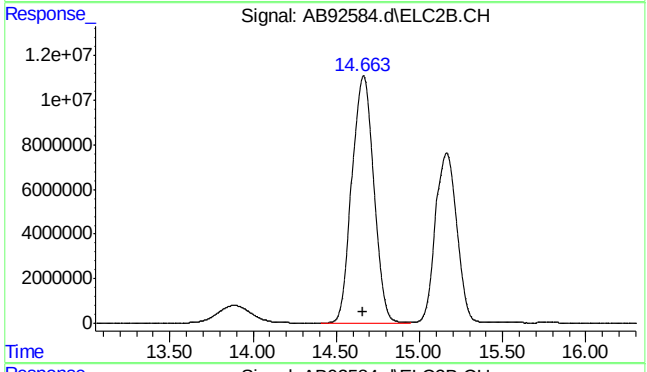
#20 naphthalene

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



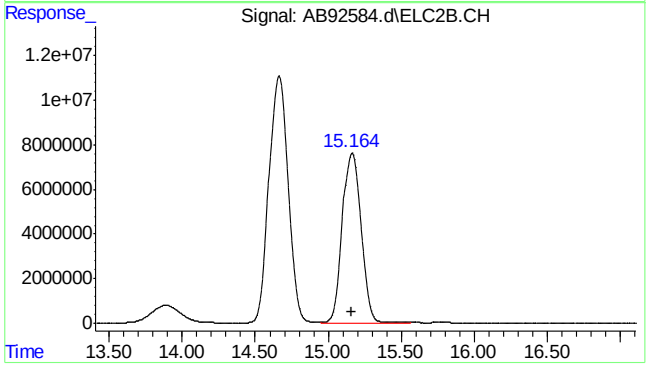
#23 mtbe #2

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



#24 benzene #2

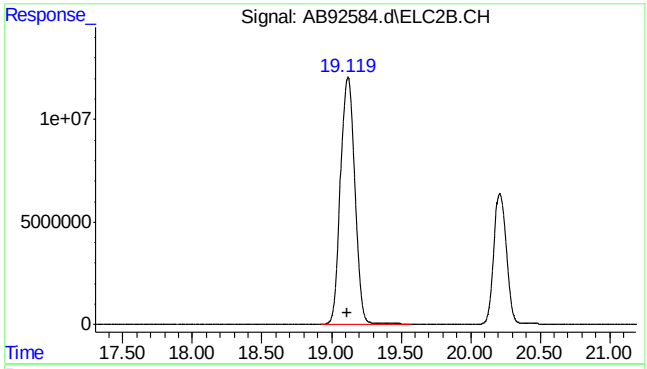
R.T.: 14.663 min
Delta R.T.: 0.005 min
Response: 1012253857
Conc: 756.64 ppb



#25 fluorobenzene #2

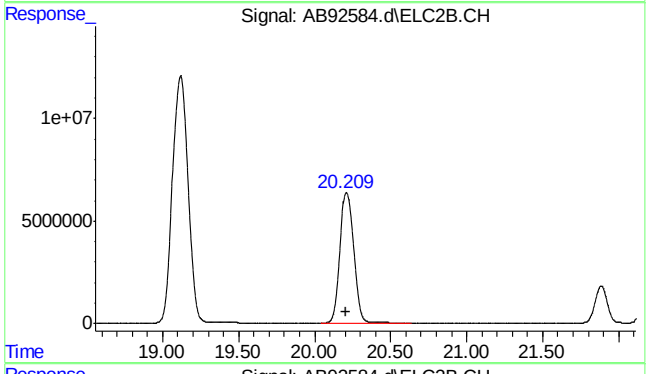
R.T.: 15.163 min
Delta R.T.: 0.005 min
Response: 685273250
Conc: 795.10 ppb

SGS ACCUTEST MC45678



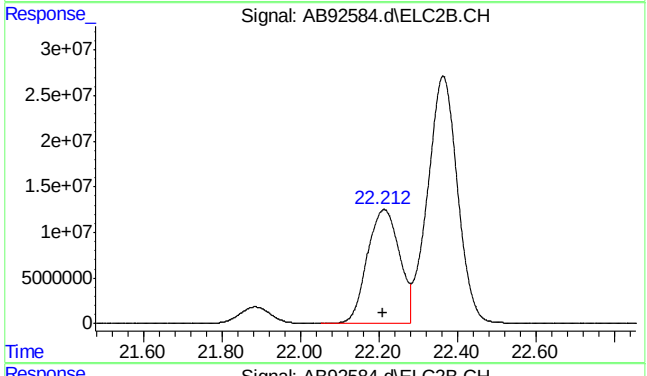
#26 toluene #2

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



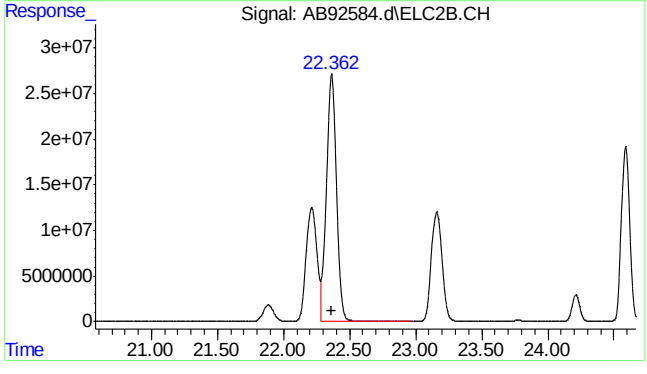
#27 2,3,4-trifluorotoluene #2

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



#28 ethylbenzene #2

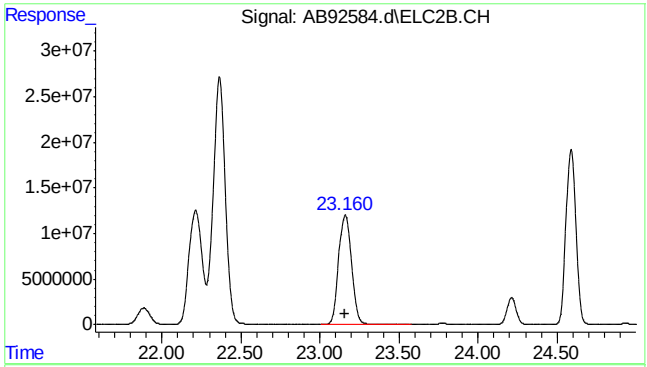
R.T.: 22.213 min
Delta R.T.: 0.003 min
Response: 713837963
Conc: 749.55 ppb



#29 m,p-xylene #2

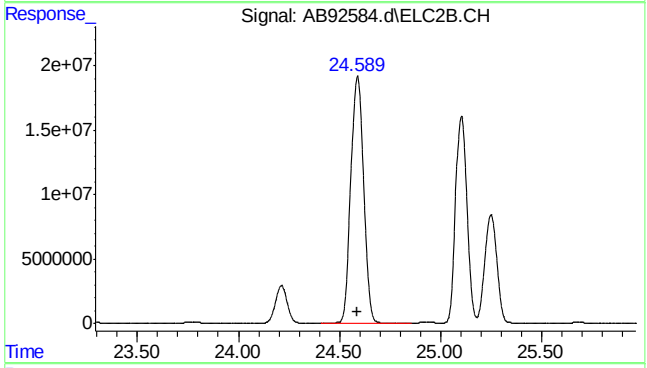
R.T.: 22.363 min
Delta R.T.: 0.004 min
Response: 1438627603
Conc: 1303.82 ppb

SGS ACCUTEST MC45678



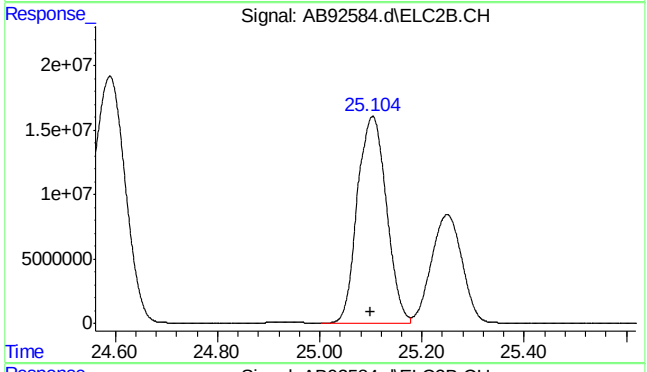
#30 o-xylene #2

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



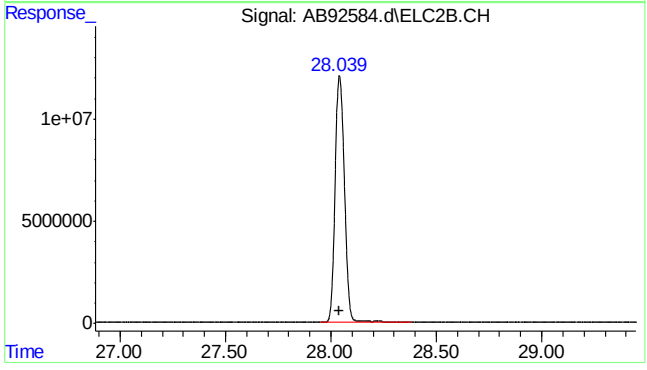
#31 1,3,5-trimethylbenzene #2

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



#32 1,2,4-trimethylbenzene #2

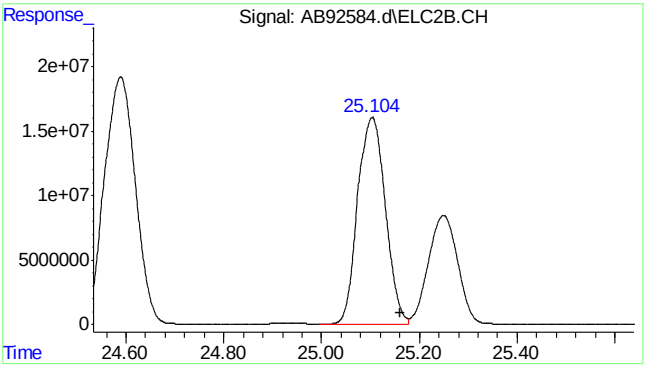
R.T.: 25.103 min
Delta R.T.: 0.004 min
Response: 633290350
Conc: 634.87 ppb



#33 naphthalene #2

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

SGS ACCUTEST MC45678



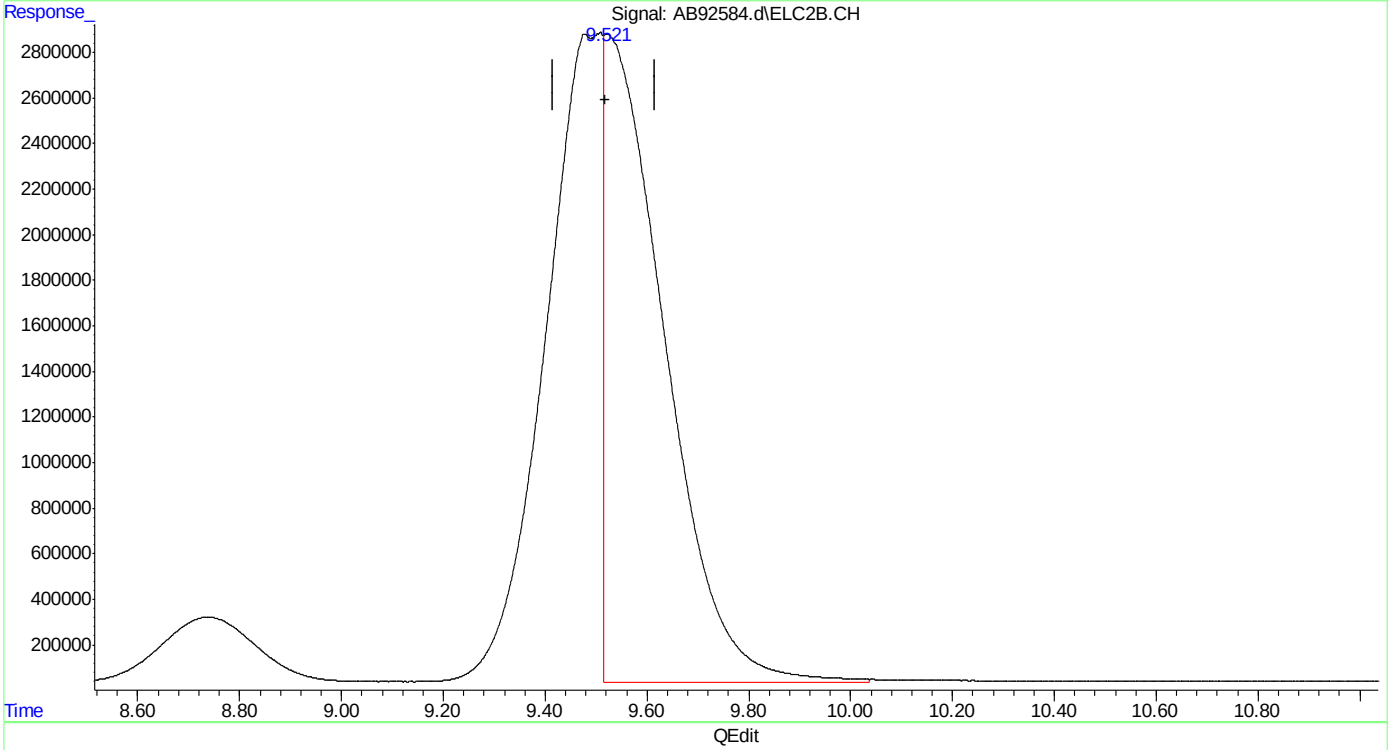

```
#34  c9-c10 arom as 1,2,4-tmb

      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

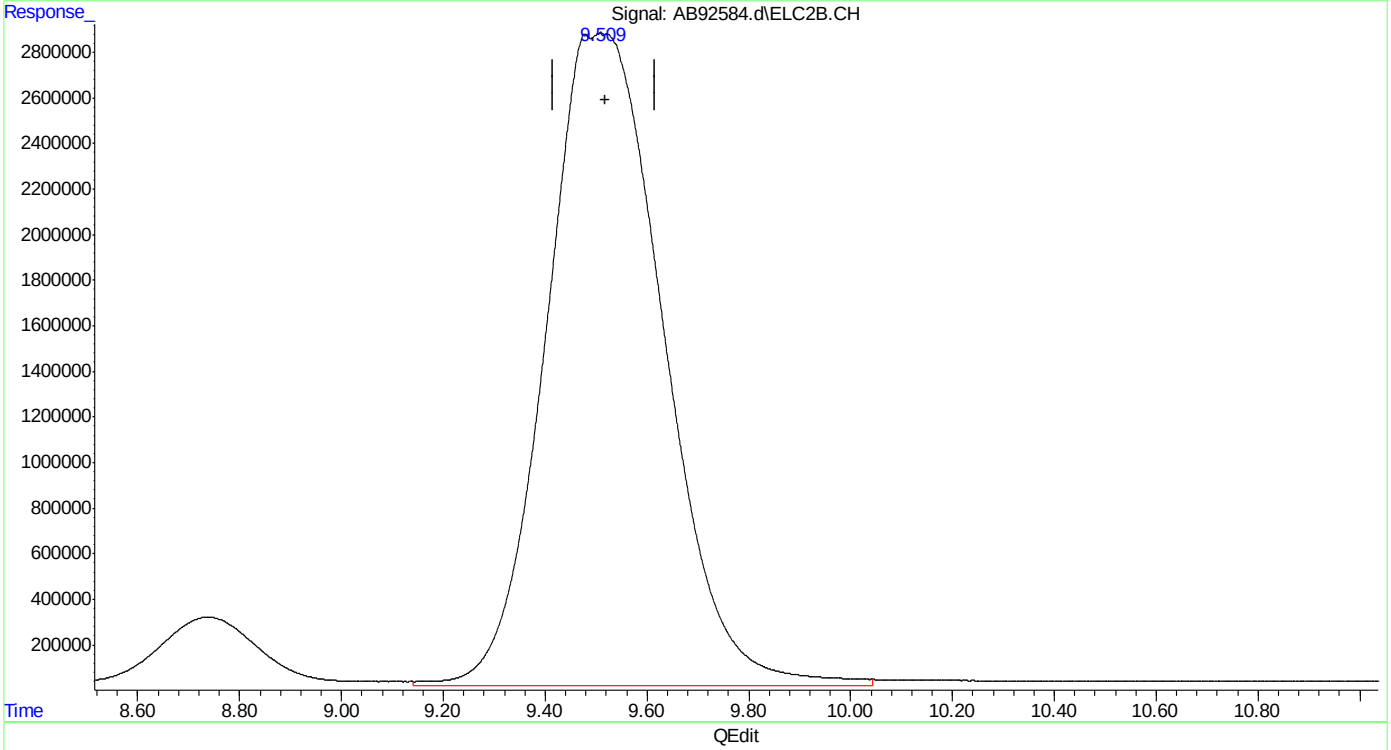
(+) = Expected Retention Time

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

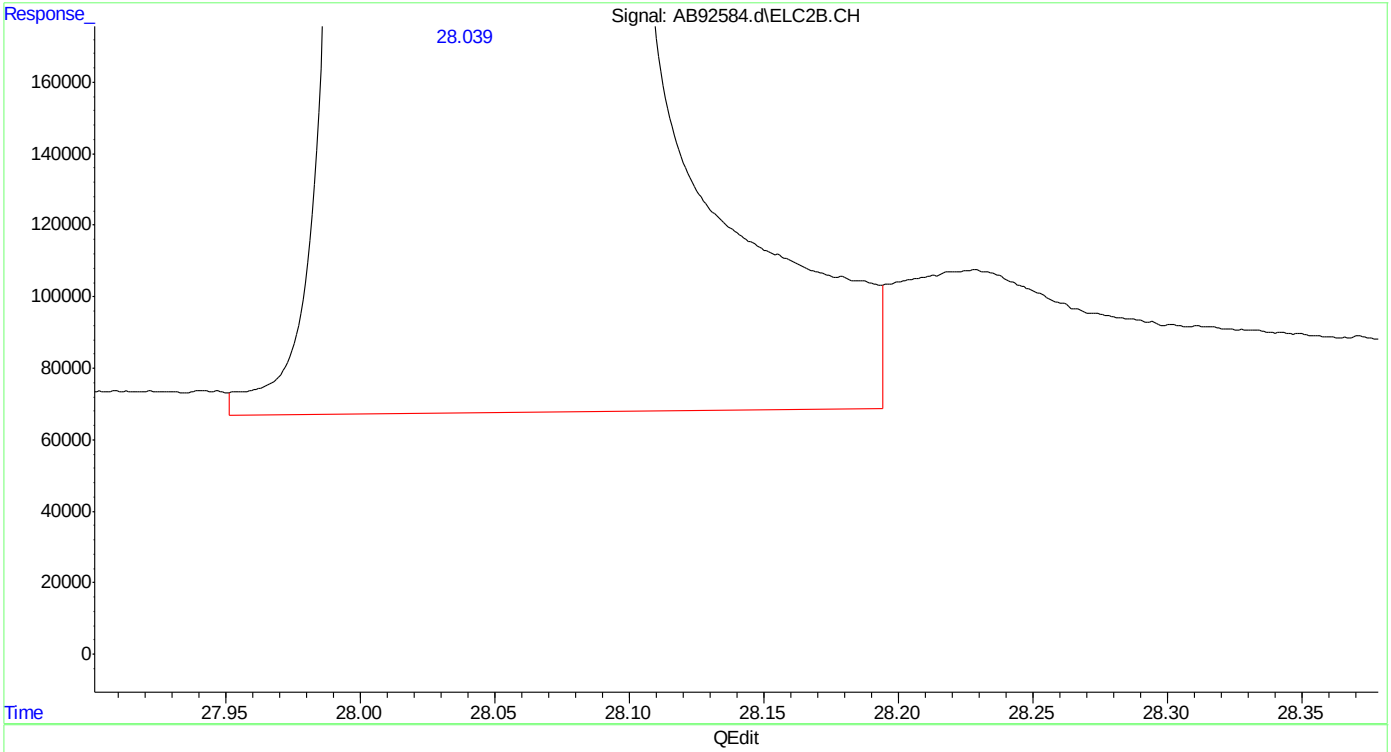
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:18:49 2016

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 :

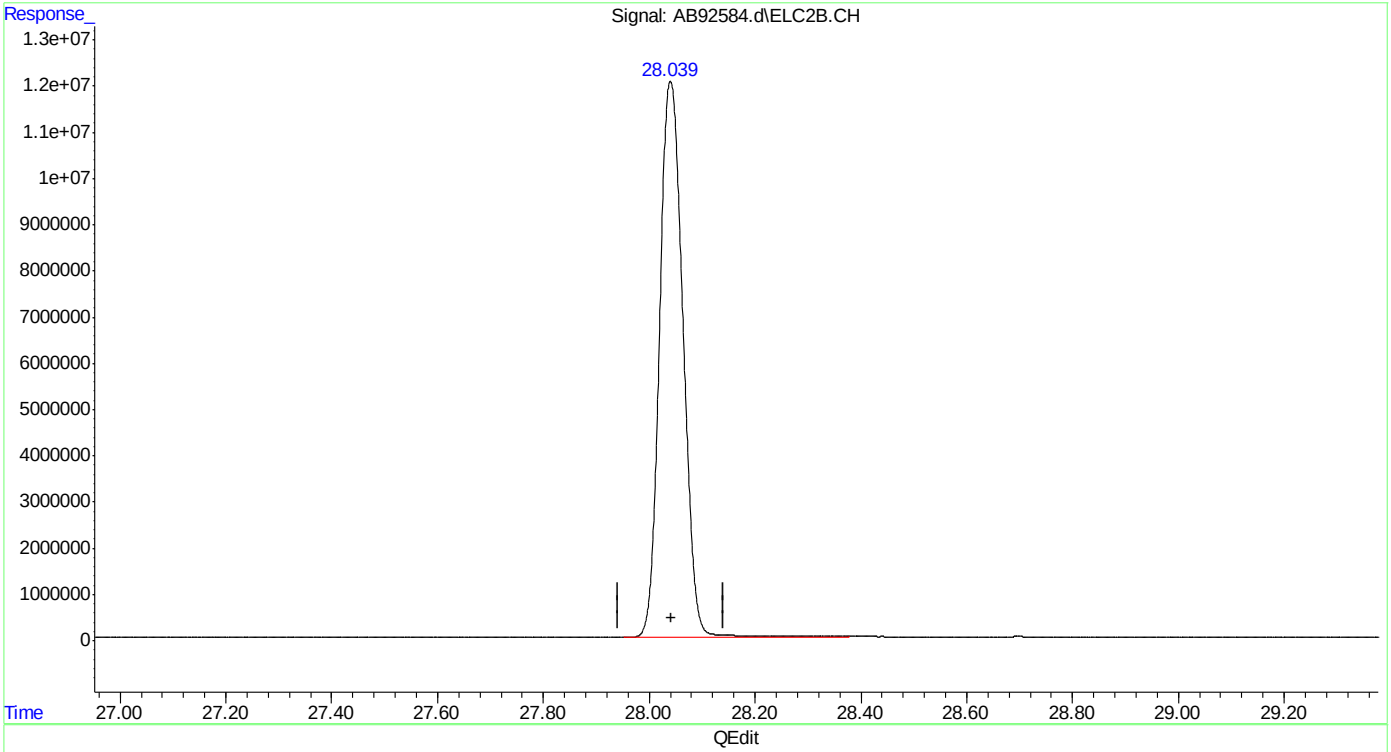


(33) naphthalene #2
28.041min 479.998 ppb
response 369706145

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

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

SGS ACCUTEST MC45678

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

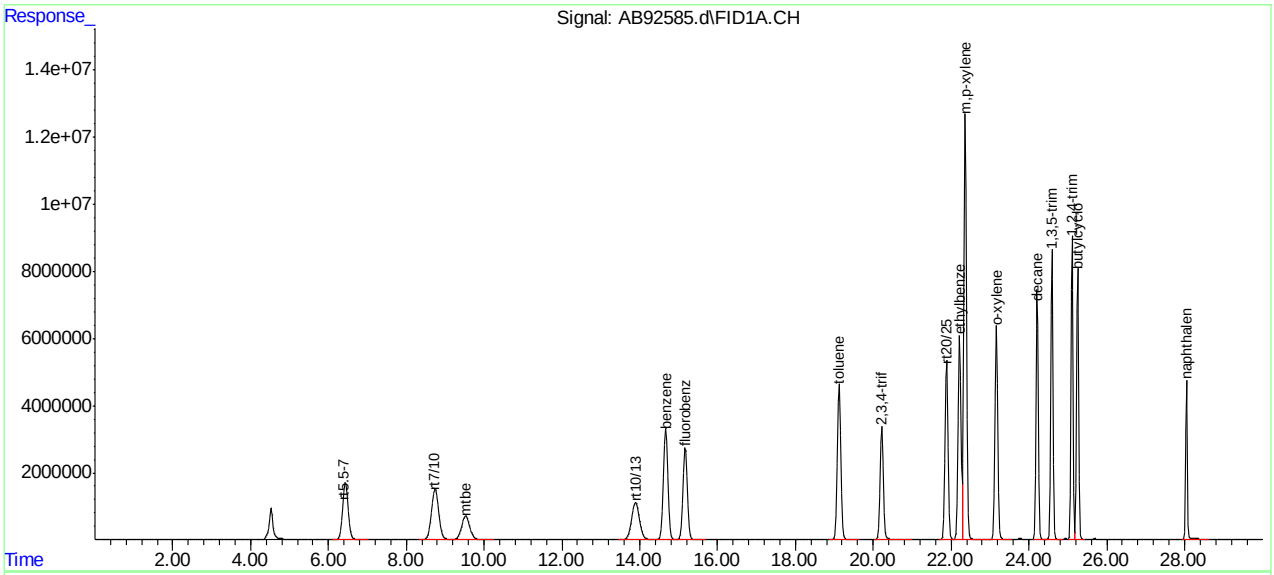
(f)=RT Delta > 1/2 Window (m)=manual int.

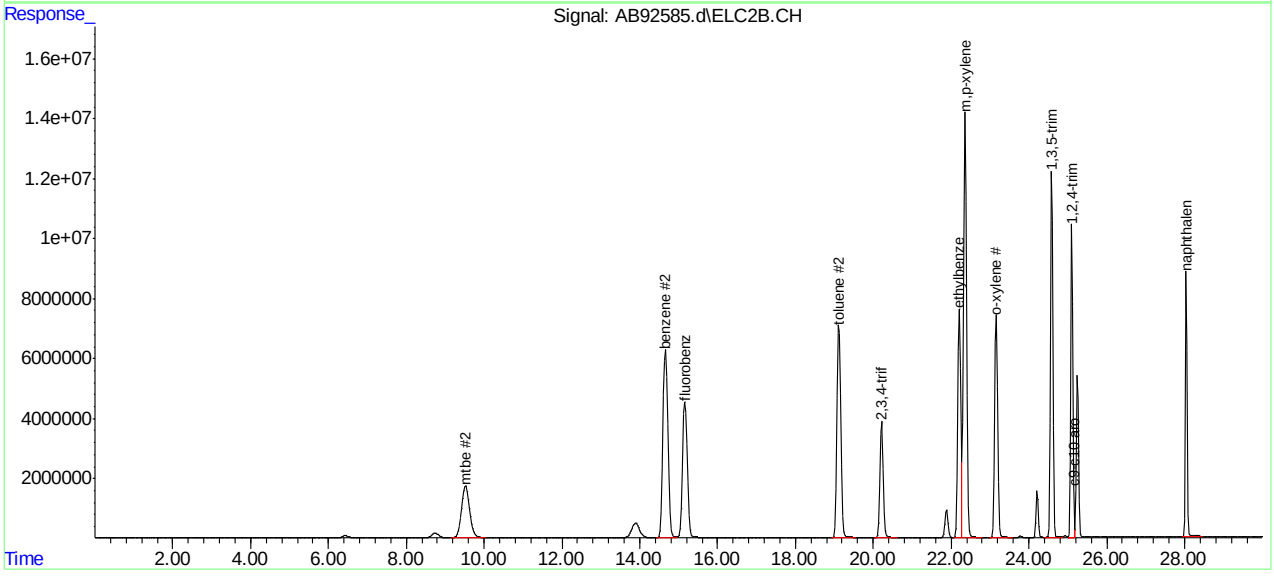
Quantitation Report (QT Reviewed)

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

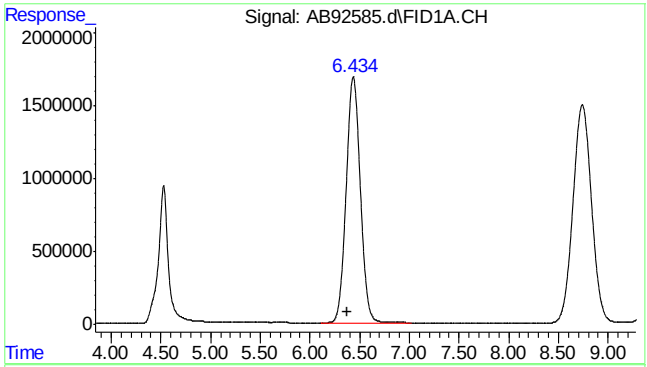
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:17:25 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:13:49 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



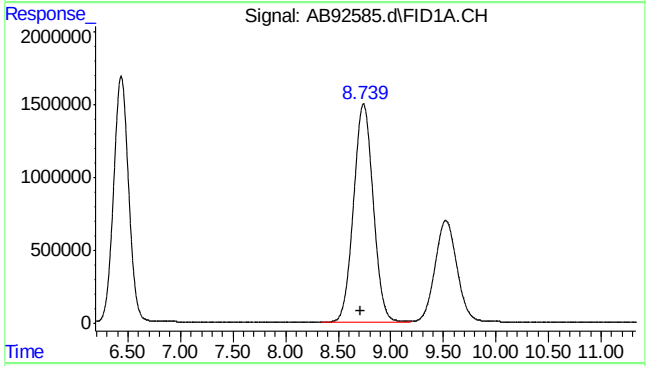


SGS ACCUTEST MC45678



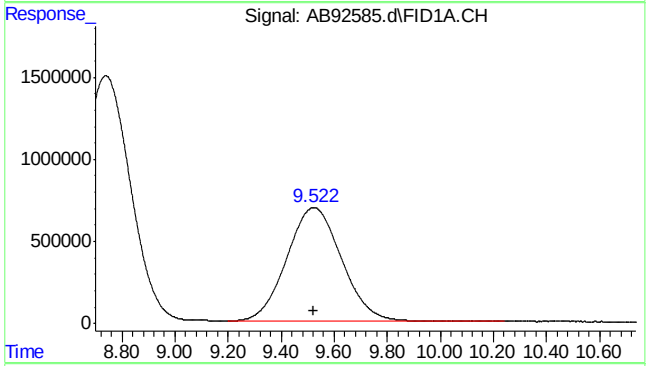
#1 rt5.5-7

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



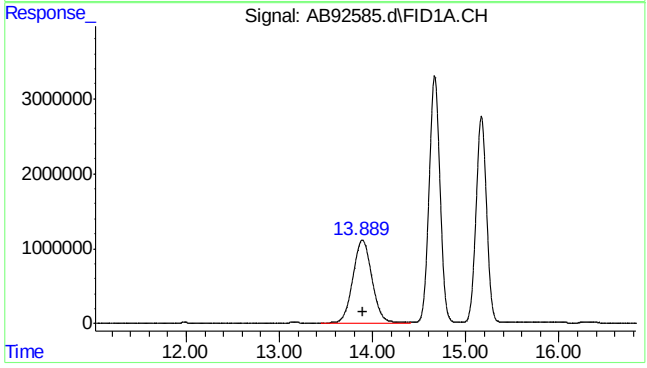
#2 rt7/10

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



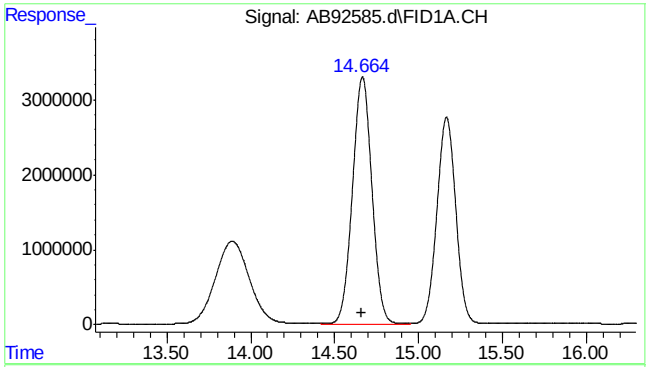
#3 mtbe

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



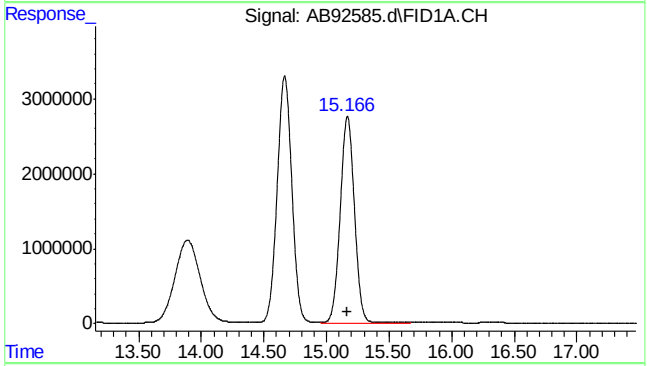
#4 rt10/13

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



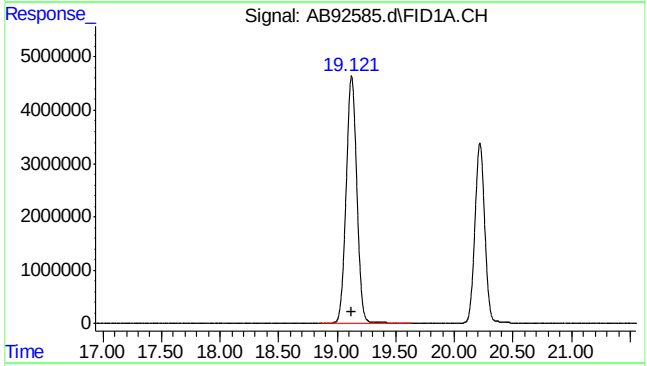
#5 benzene

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



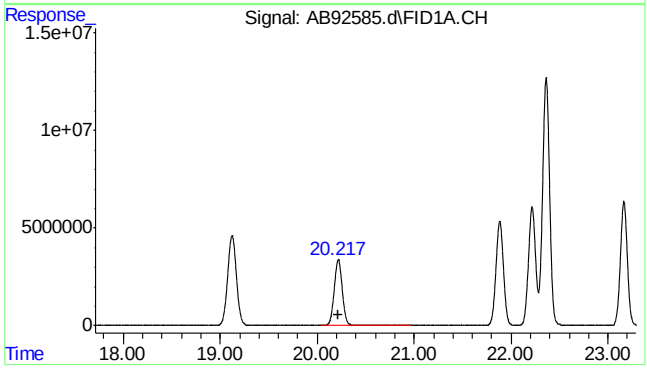
#6 fluorobenzene

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

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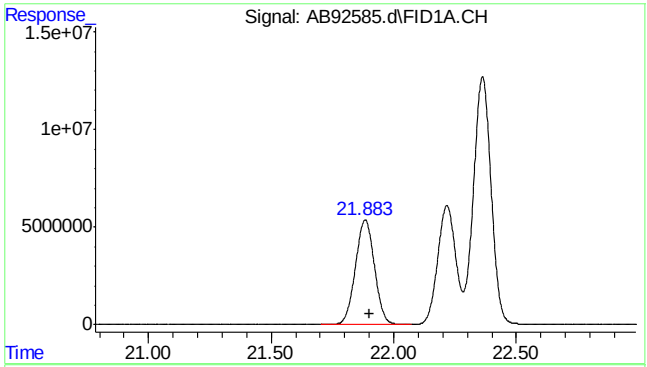
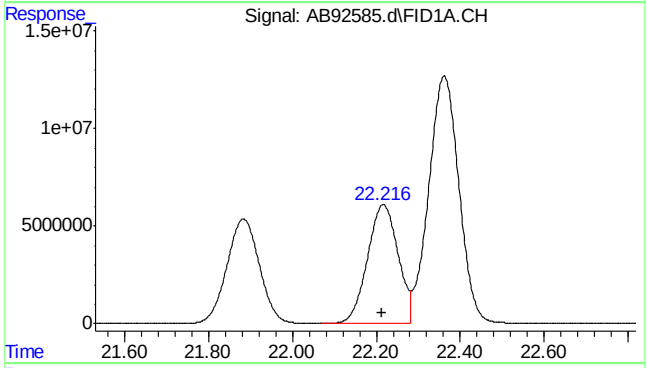


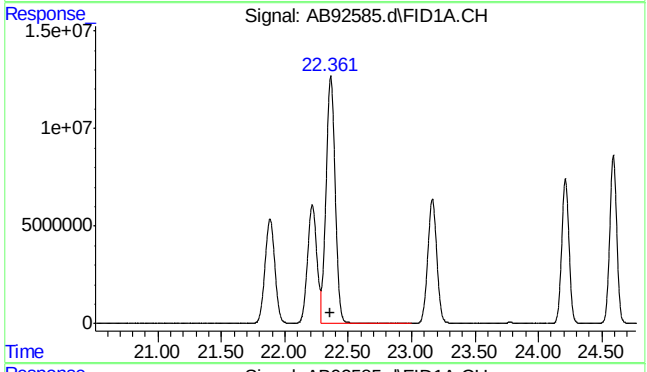
#11 rt20/25

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



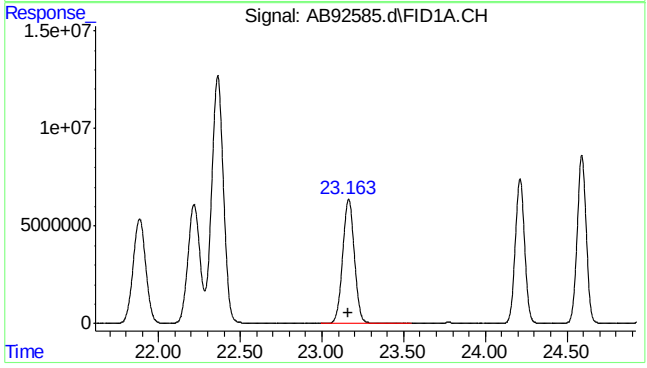
#13 ethylbenzene

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



#14 m,p-xylene

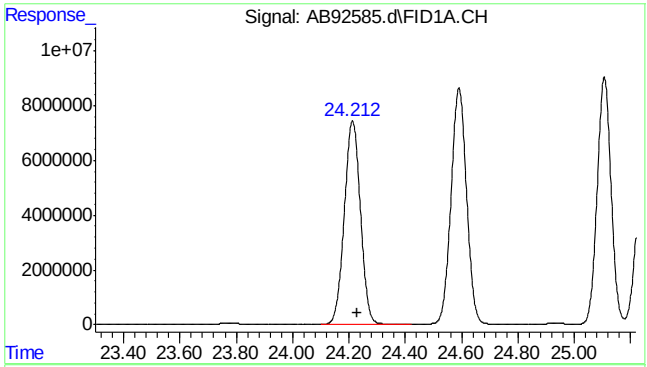
R.T.: 22.362 min
Delta R.T.: 0.003 min
Response: 636990267
Conc: 957.31 ppb



#15 o-xylene

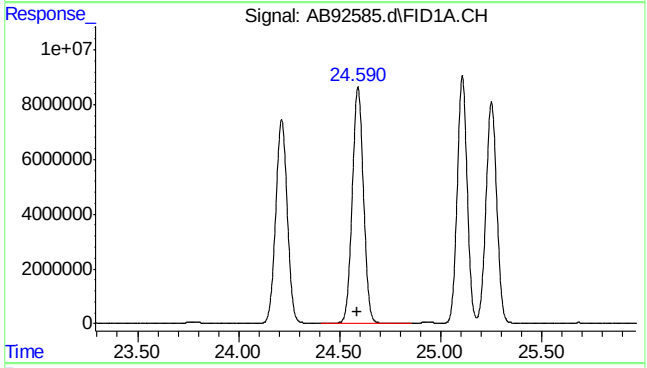
R.T.: 23.164 min
Delta R.T.: 0.002 min
Response: 316689512
Conc: 475.16 ppb

SGS ACCUTEST MC45678



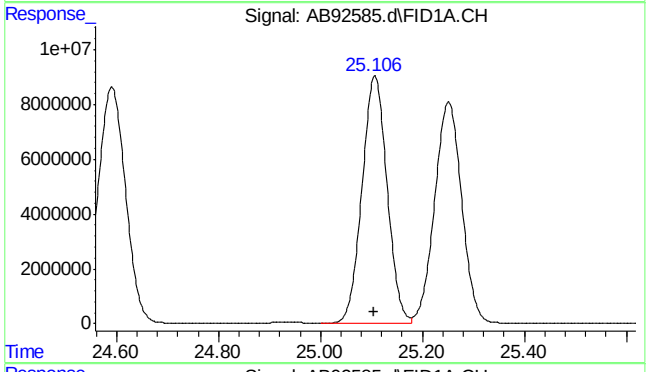
#16 decane

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



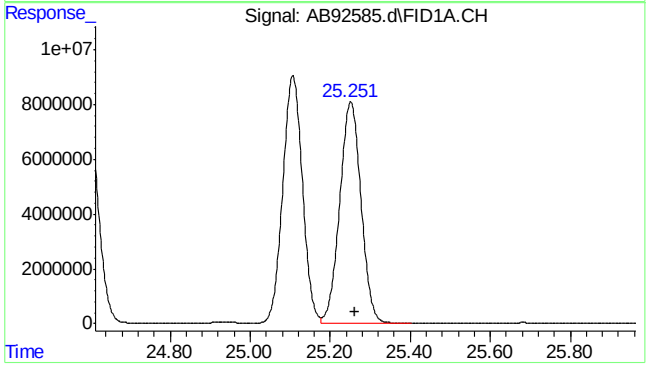
#17 1,3,5-trimethylbenzene

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



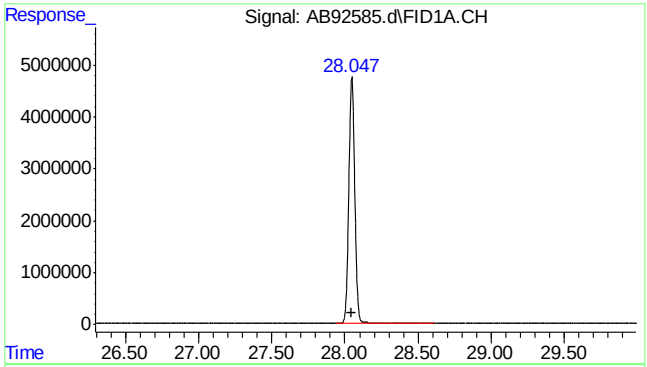
#18 1,2,4-trimethylbenzene

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



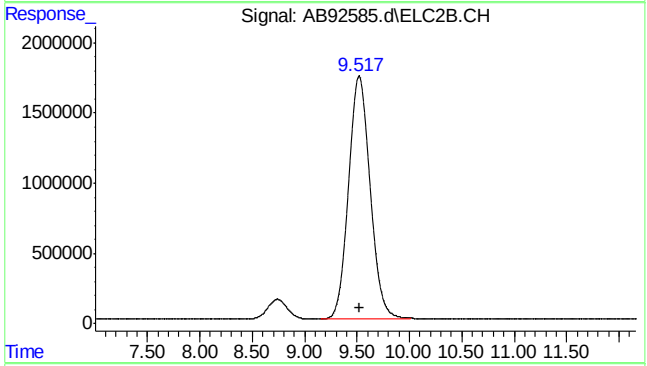
#19 butylcyclohexane

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



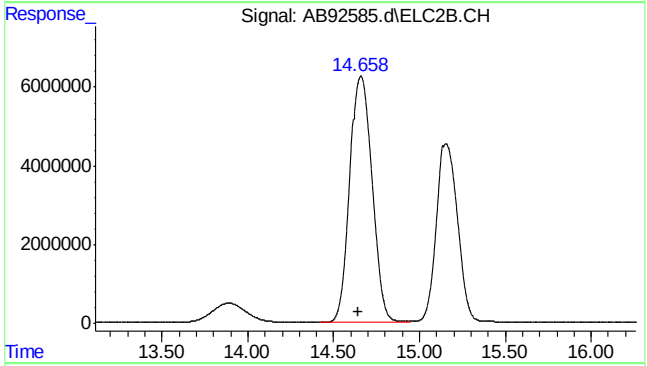
#20 naphthalene

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



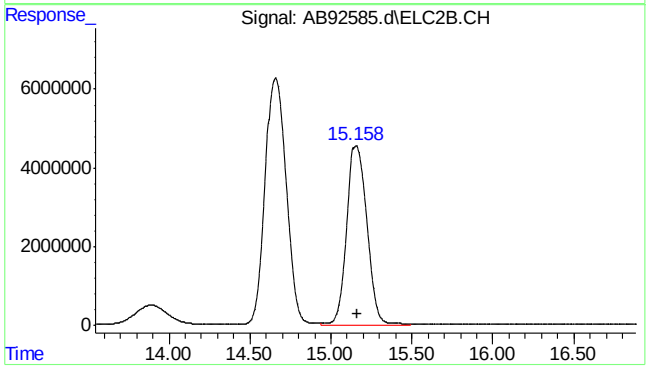
#23 mtbe #2

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

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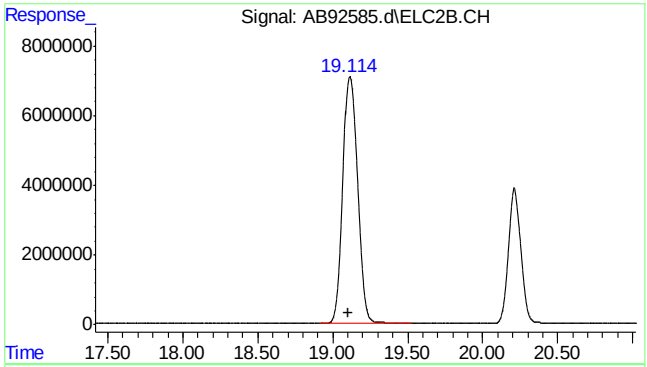
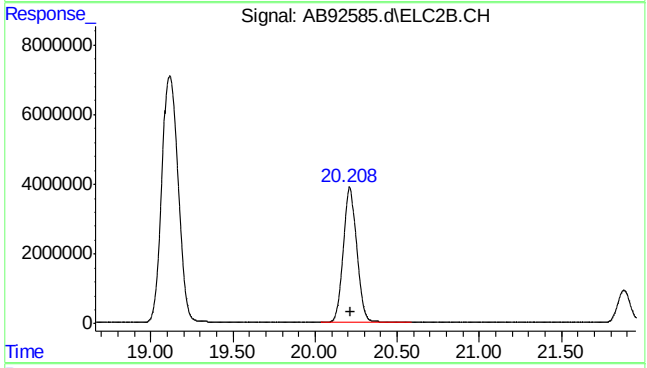


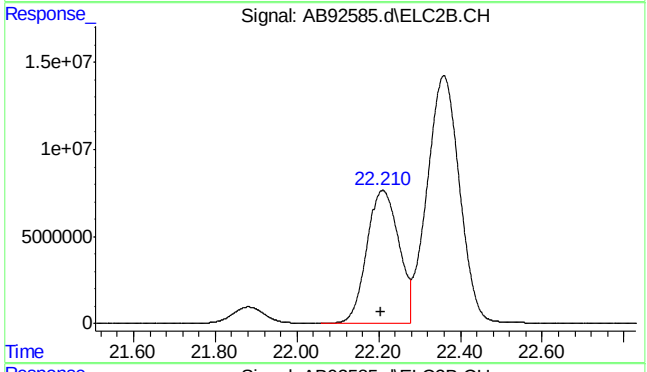
#26 toluene #2

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



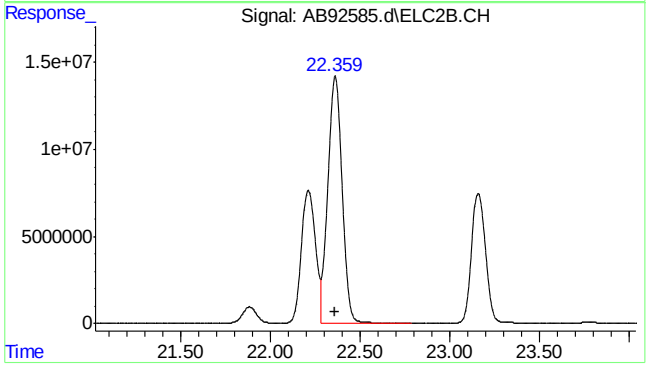
#27 2,3,4-trifluorotoluene #2

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



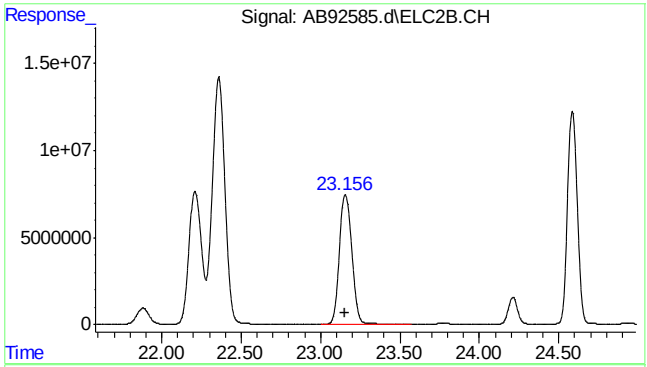
#29 m,p-xylene #2

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

7.5.2

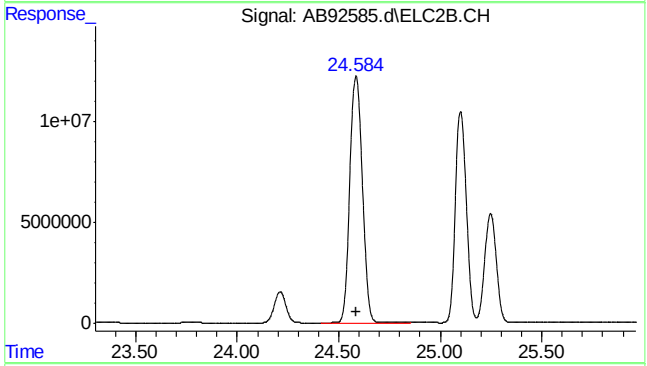
7

SGS ACCUTEST MC45678



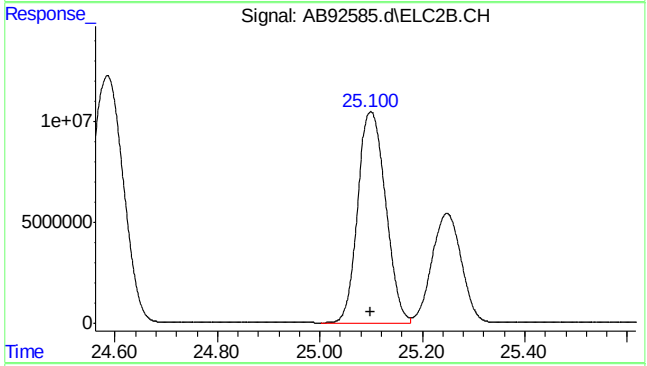
#30 o-xylene #2

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



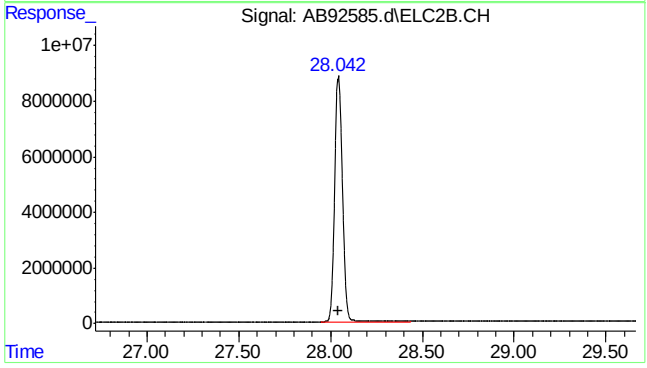
#31 1,3,5-trimethylbenzene #2

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



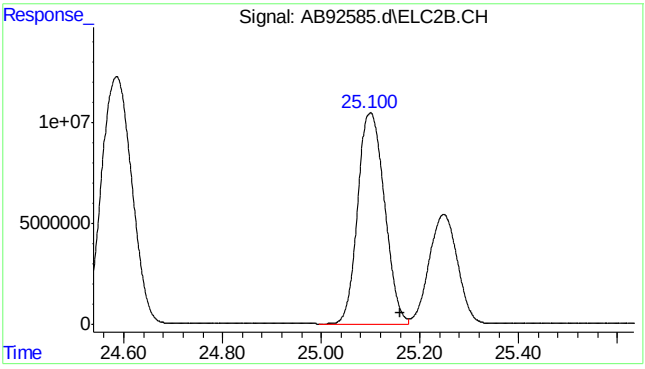
#33 naphthalene #2

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

7.5.2

7

SGS ACCUTEST MC45678




```
#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

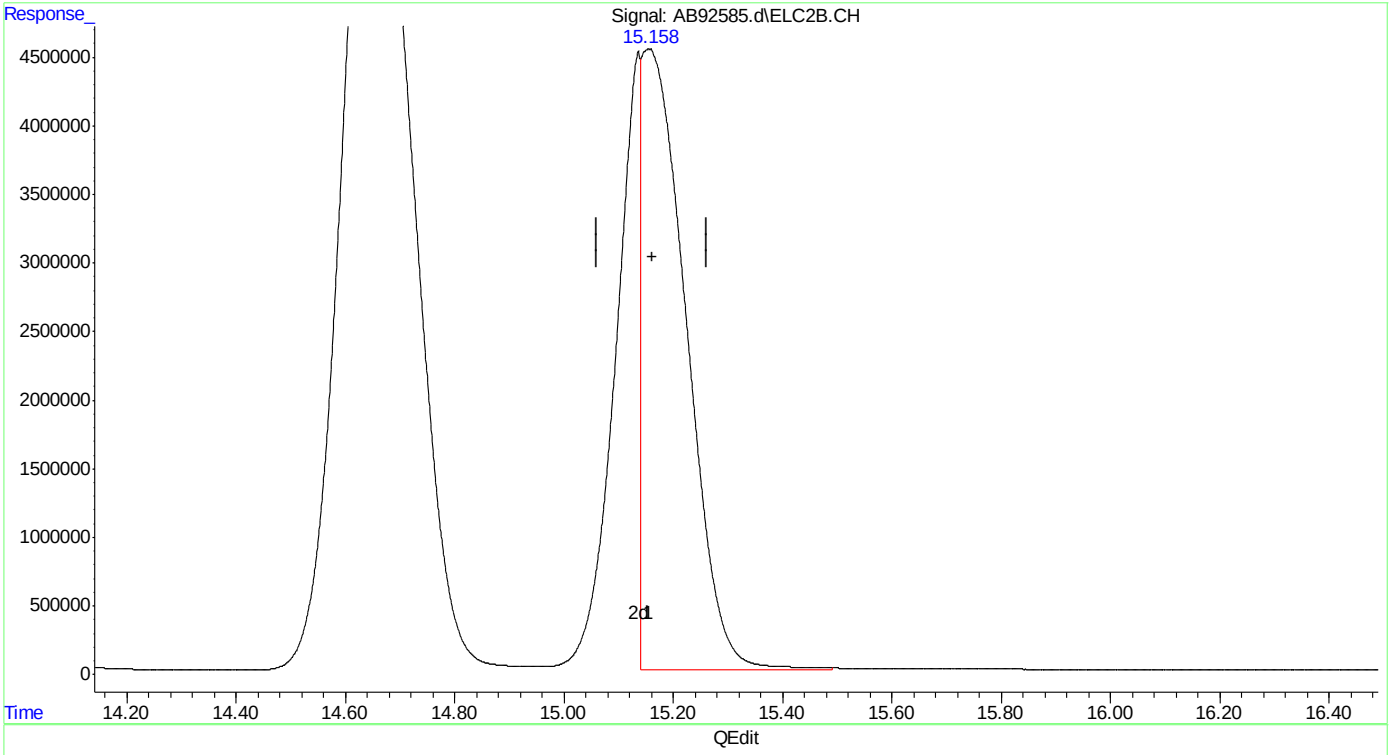
SGS ACCUTEST MC45678

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

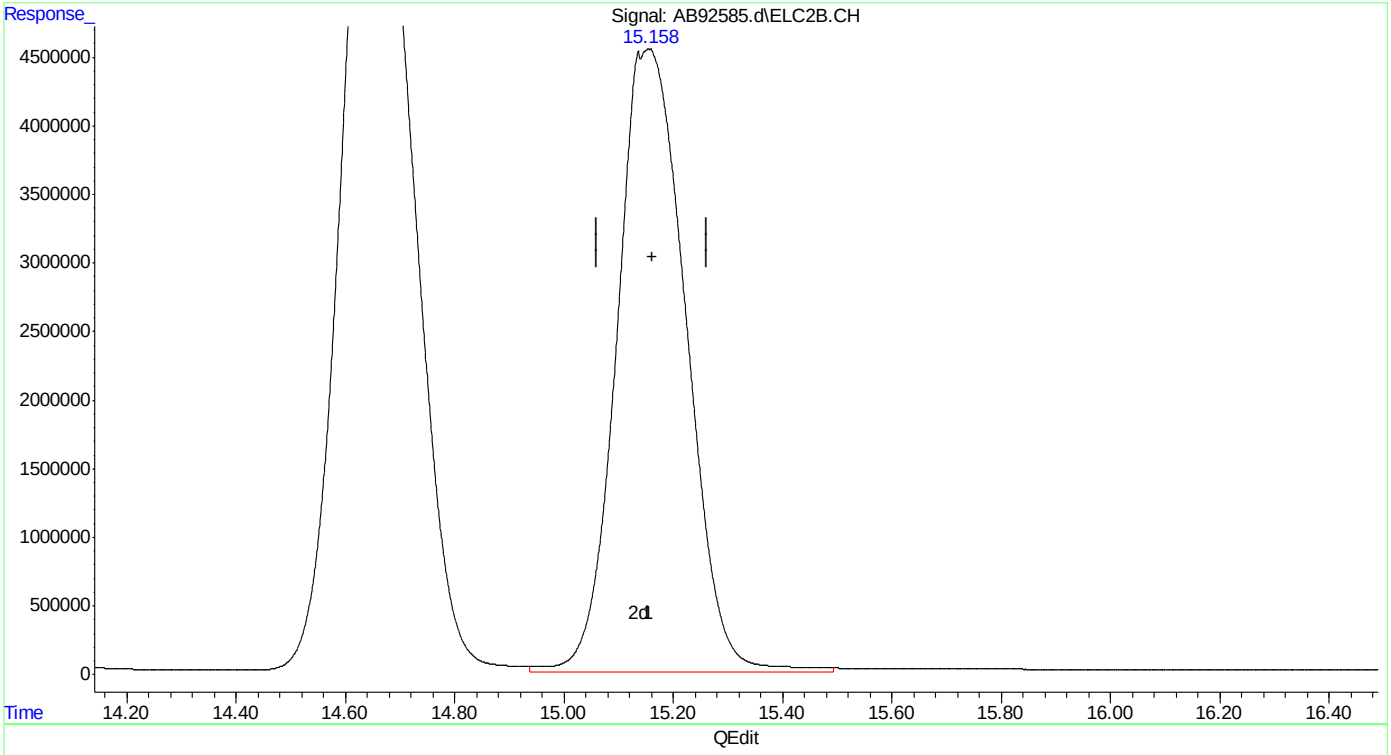
SGS ACCUTEST MC45678

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

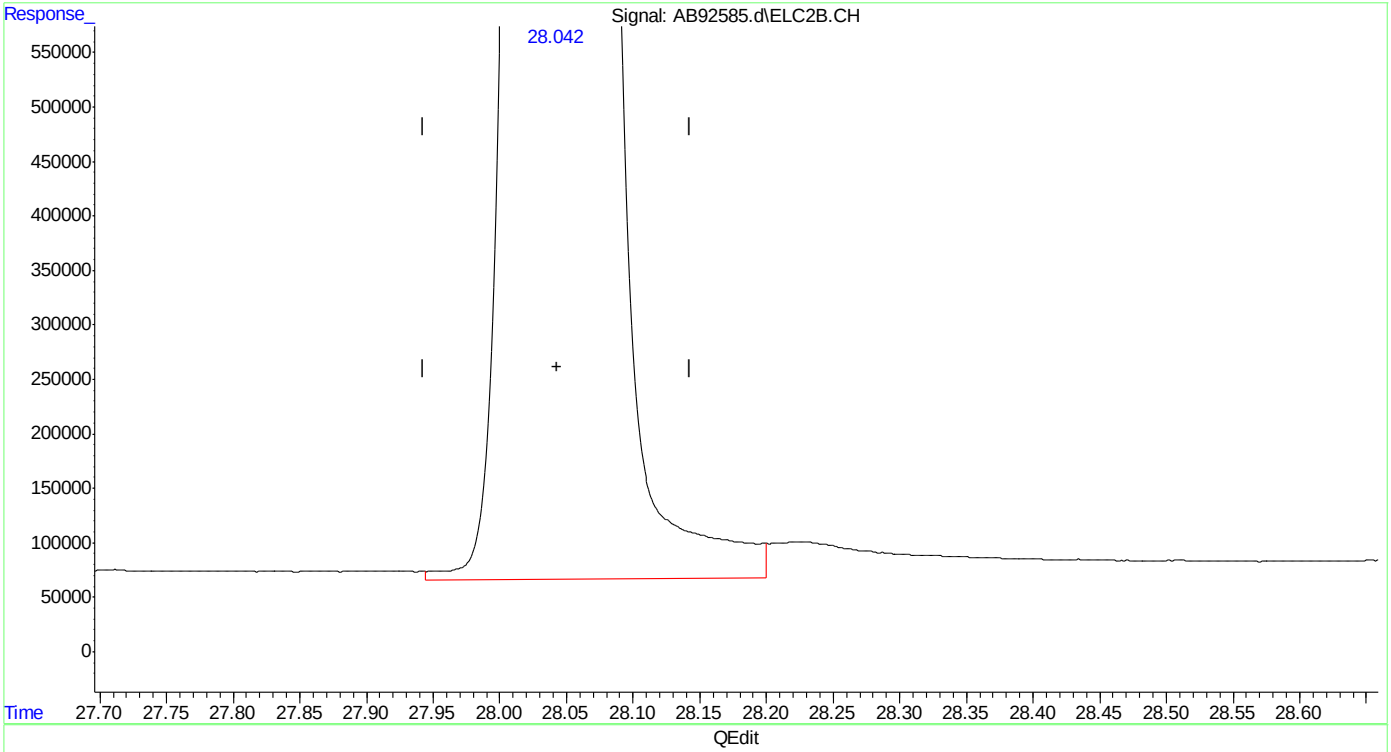
SGS ACCUTEST MC45678

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

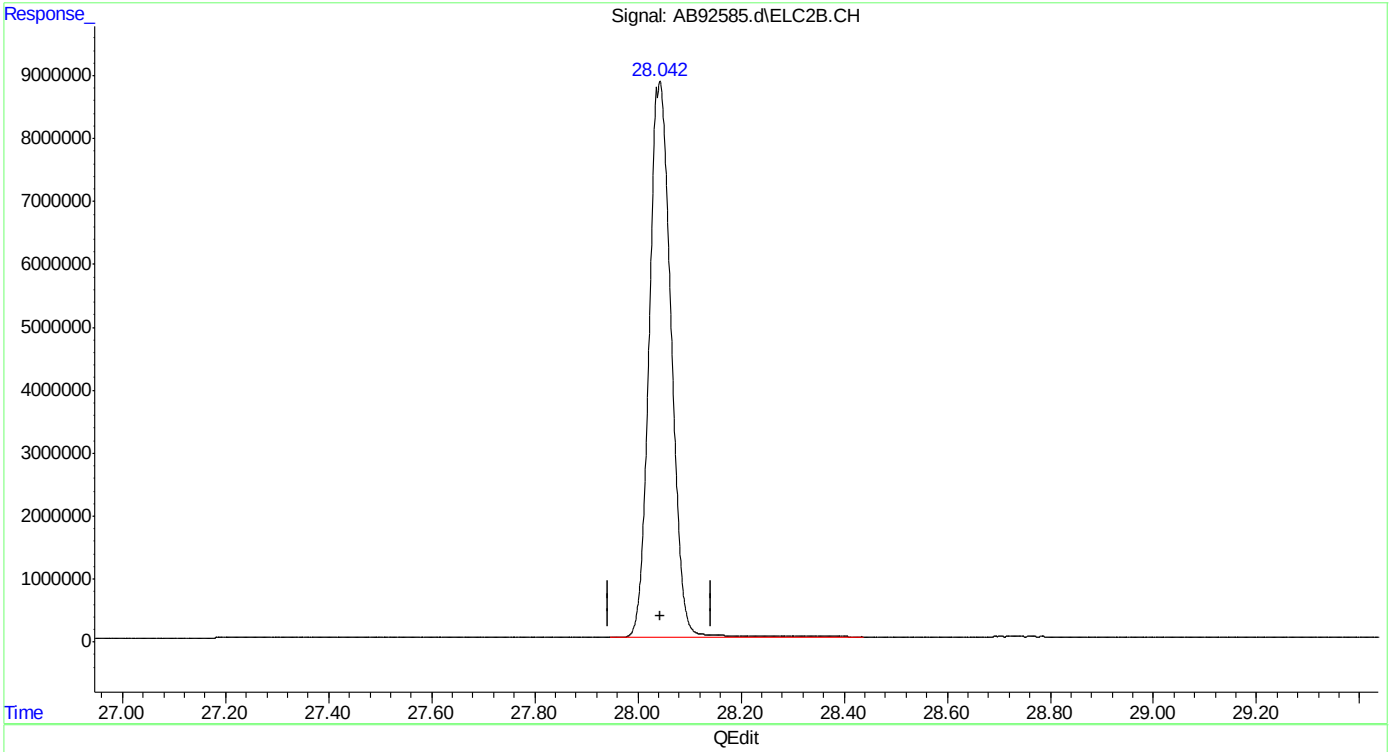
(+) = Expected Retention Time

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 MC45678

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

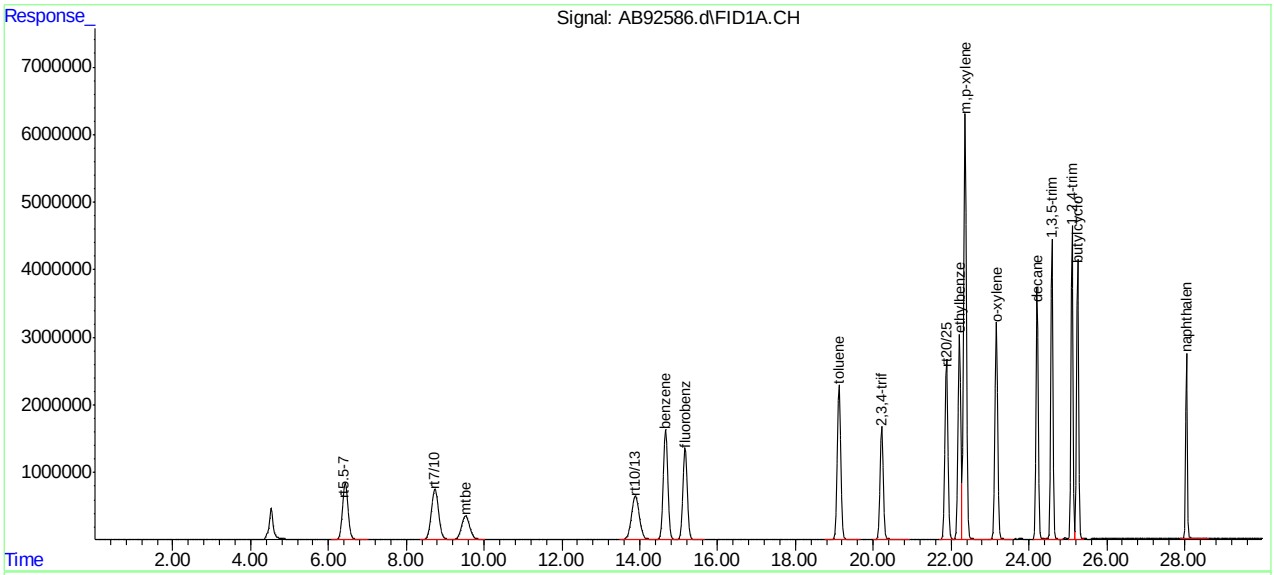
(f)=RT Delta > 1/2 Window (m)=manual int.

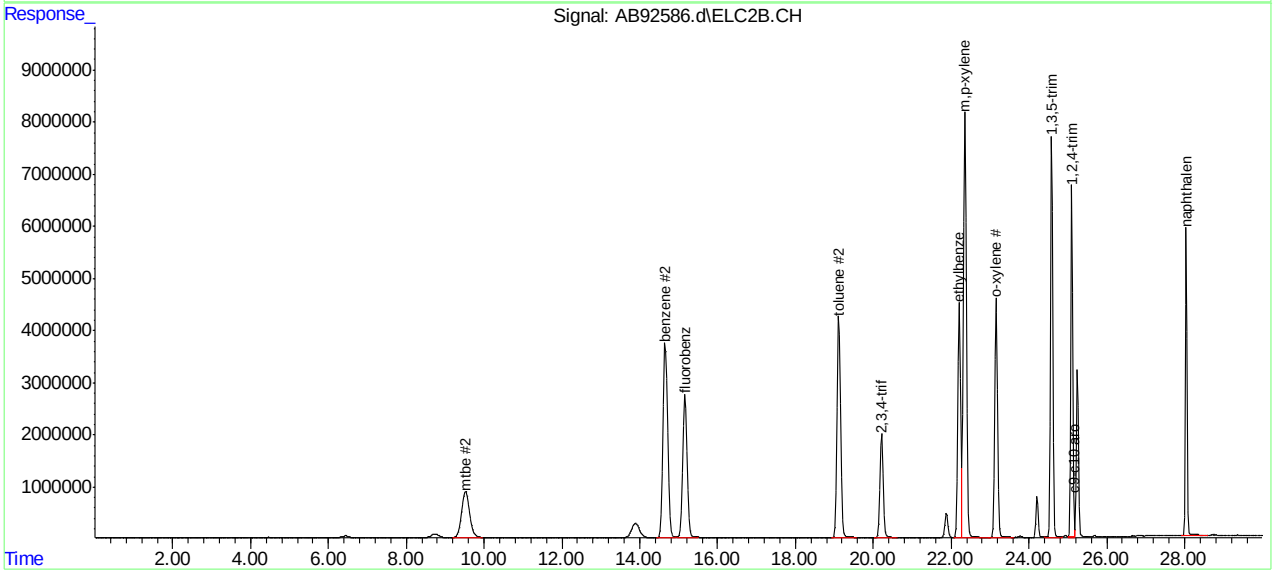
Quantitation Report (QT Reviewed)

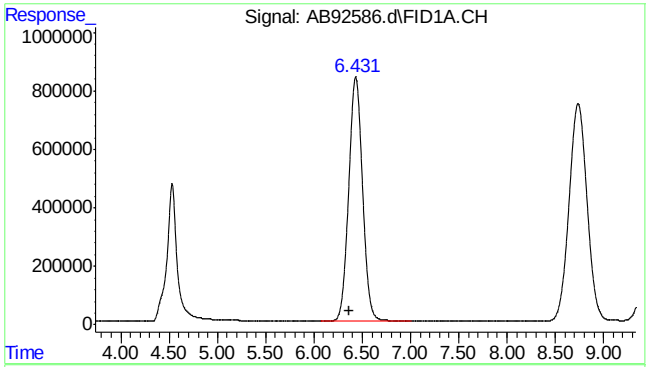
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:41:35
Operator : haleyn
Sample : ic5058-250
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

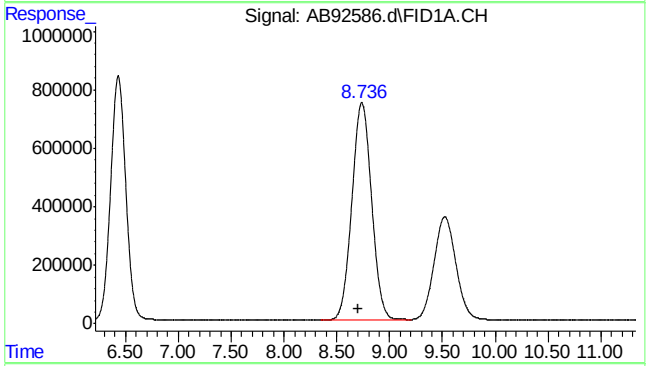






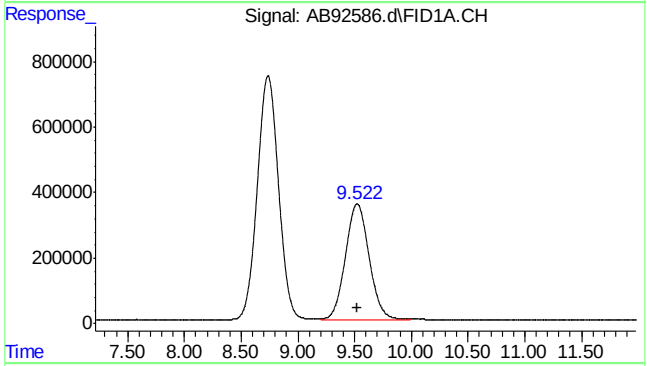
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 83244106
Conc: 220.83 ppb m



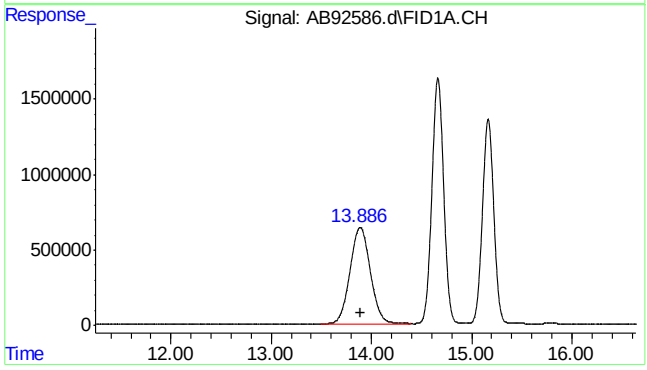
#2 rt7/10

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

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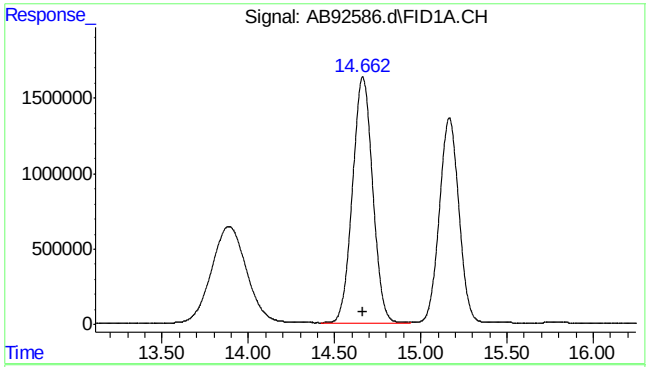
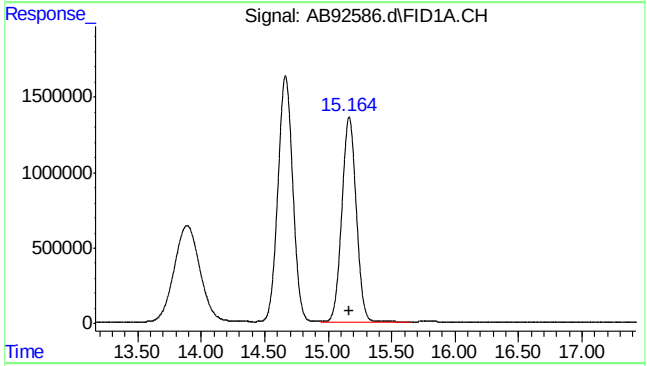


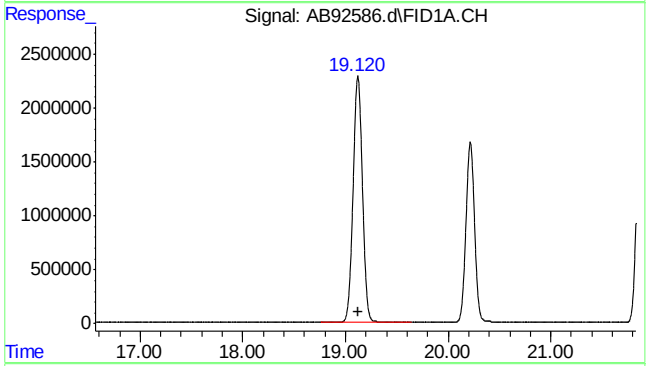
#5 benzene

R.T.: 14.663 min
Delta R.T.: -0.002 min
Response: 132502238
Conc: 240.50 ppb



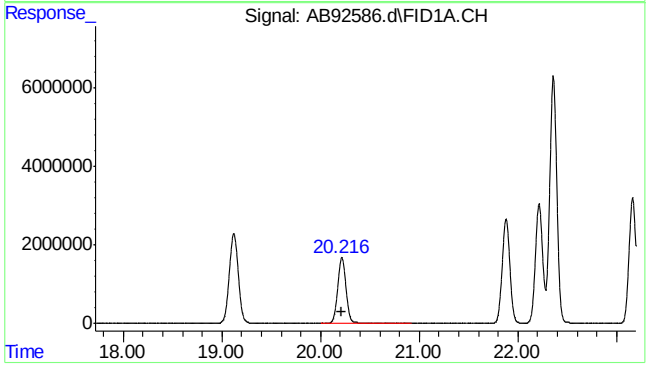
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.002 min
Response: 107110583
Conc: 241.88 ppb



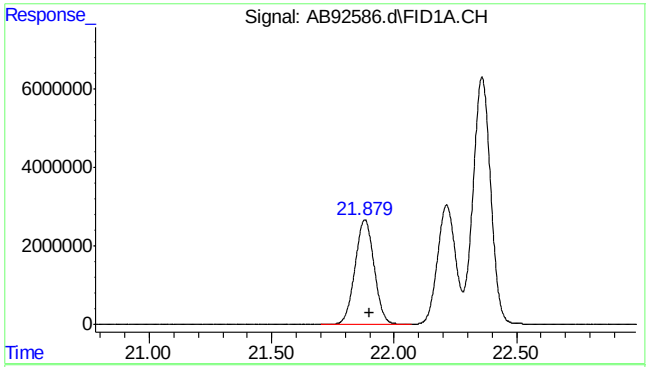
#8 toluene

R.T.: 19.120 min
Delta R.T.: -0.002 min
Response: 144698734
Conc: 238.81 ppb



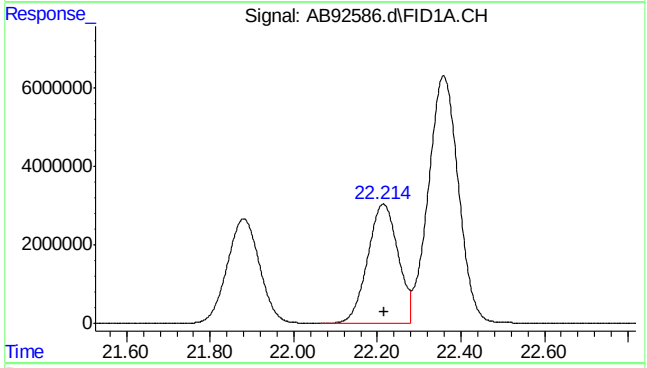
#9 2,3,4-trifluorotoluene

R.T.: 20.216 min
Delta R.T.: -0.002 min
Response: 97260456
Conc: 232.57 ppb



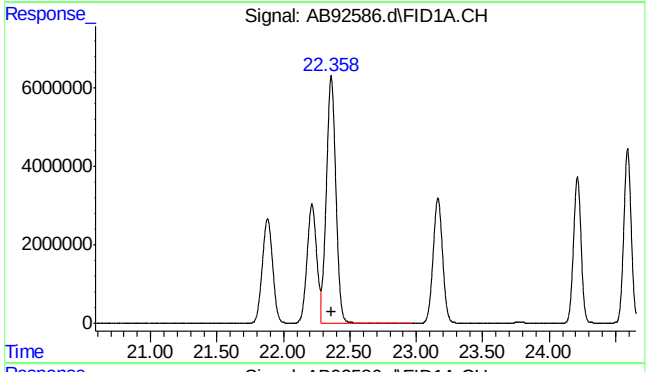
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 144023280
Conc: 234.31 ppb m



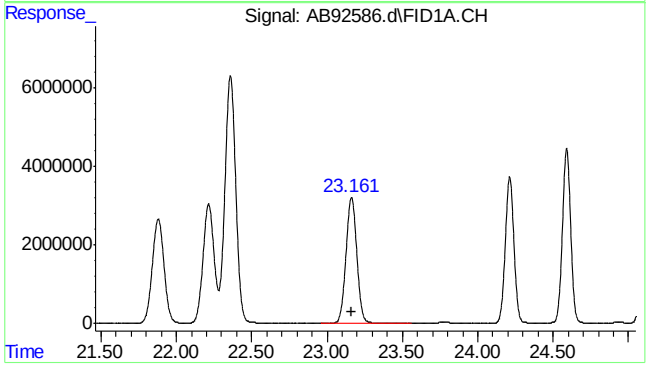
#13 ethylbenzene

R.T.: 22.214 min
Delta R.T.: -0.002 min
Response: 153475823
Conc: 238.68 ppb



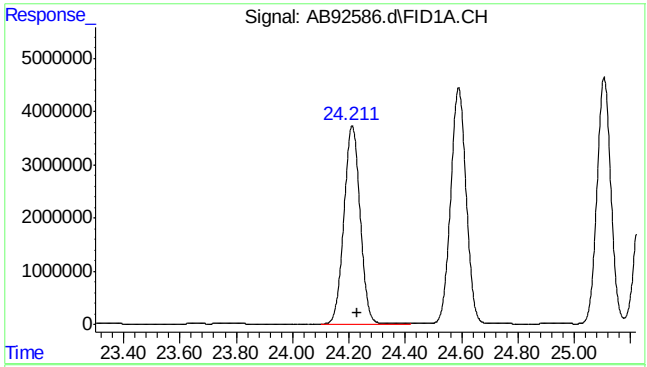
#14 m,p-xylene

R.T.: 22.359 min
Delta R.T.: -0.001 min
Response: 316722218
Conc: 472.21 ppb



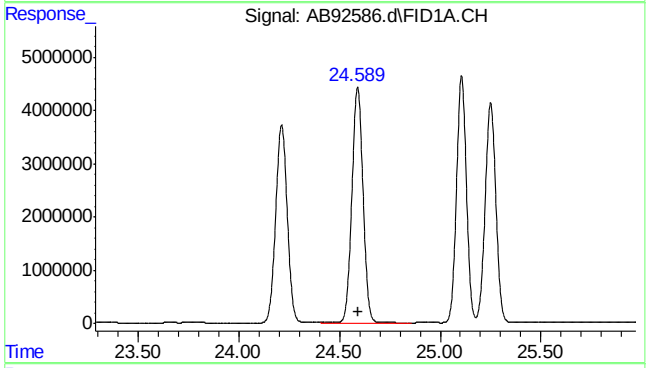
#15 o-xylene

R.T.: 23.162 min
Delta R.T.: -0.002 min
Response: 159273190
Conc: 237.23 ppb



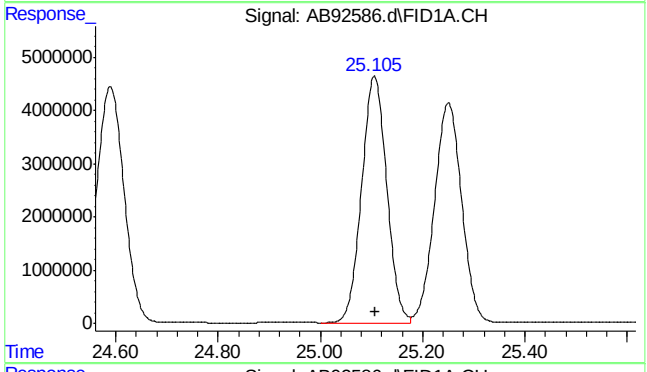
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 148414165
Conc: 234.86 ppb



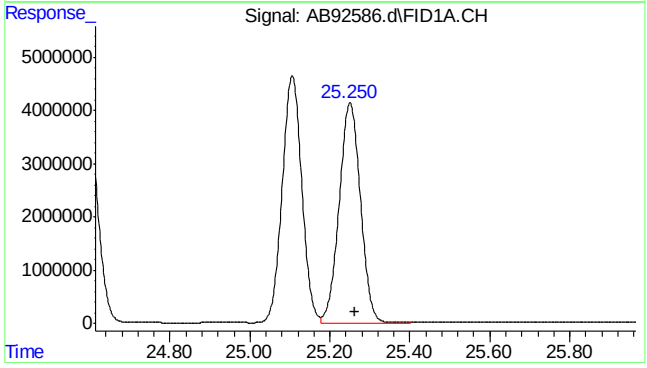
#17 1,3,5-trimethylbenzene

R.T.: 24.589 min
Delta R.T.: -0.002 min
Response: 170117803
Conc: 234.42 ppb



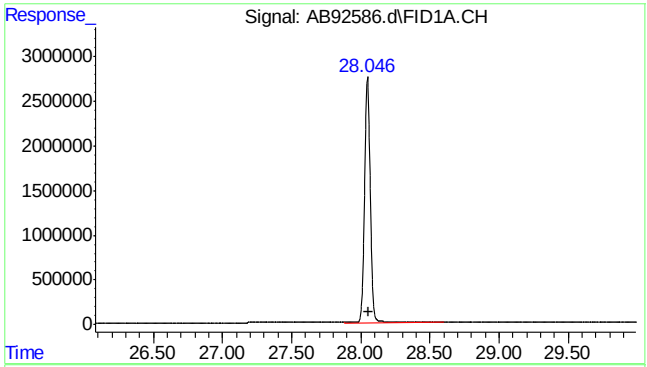
#18 1,2,4-trimethylbenzene

R.T.: 25.106 min
Delta R.T.: -0.002 min
Response: 158156158
Conc: 233.66 ppb



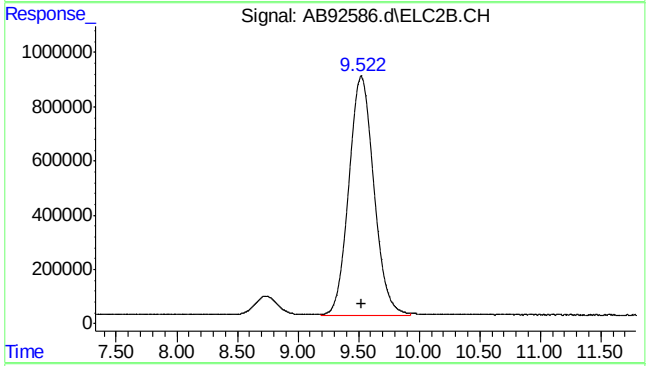
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 153083117
Conc: 221.66 ppb m



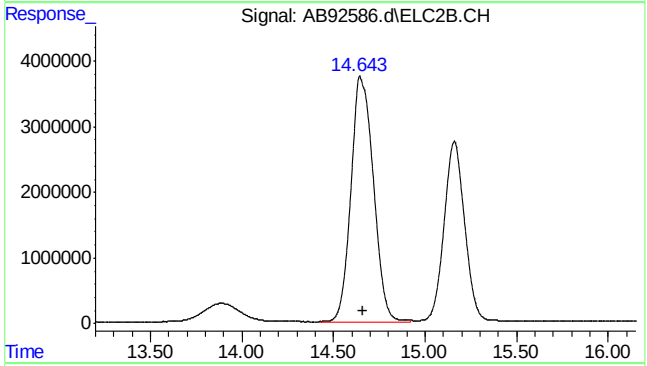
#20 naphthalene

R.T.: 28.047 min
Delta R.T.: -0.004 min
Response: 79292980
Conc: 204.03 ppb



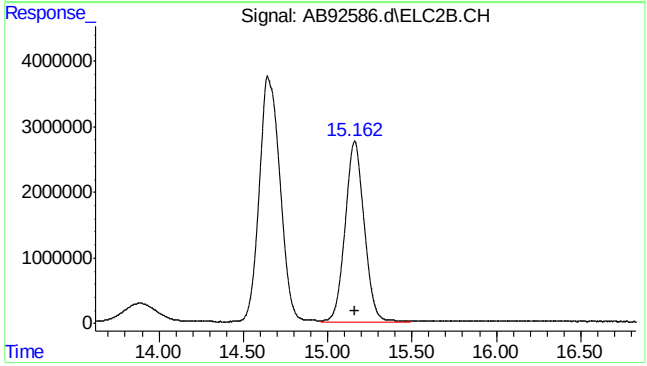
#23 mtbe #2

R.T.: 9.523 min
Delta R.T.: 0.000 min
Response: 126503933
Conc: 246.65 ppb



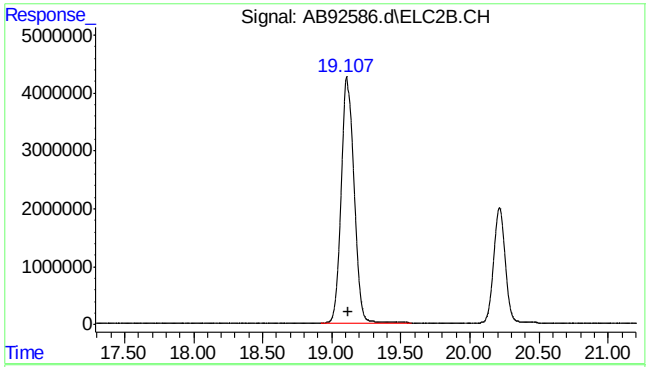
#24 benzene #2

R.T.: 14.641 min
Delta R.T.: -0.021 min
Response: 318344627
Conc: 230.47 ppb



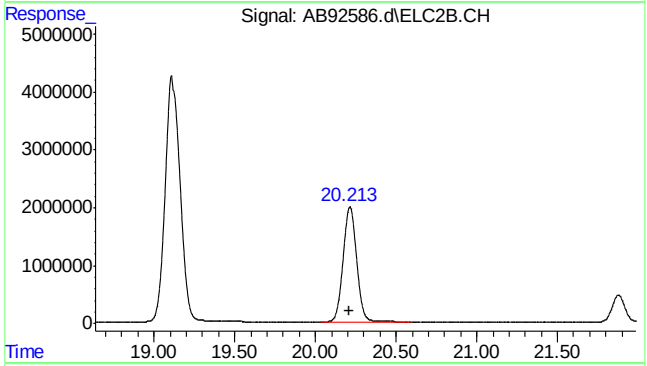
#25 fluorobenzene #2

R.T.: 15.161 min
Delta R.T.: 0.000 min
Response: 215884692
Conc: 247.38 ppb



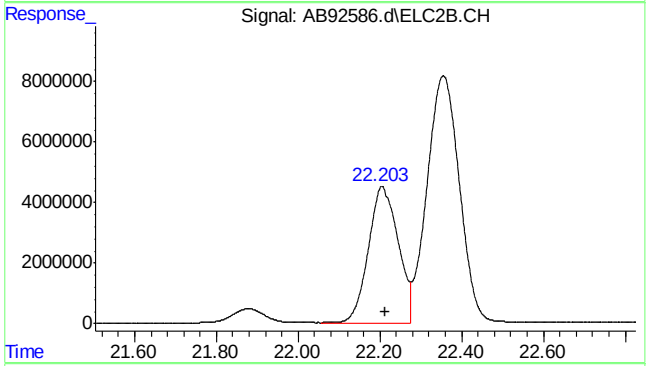
#26 toluene #2

R.T.: 19.106 min
Delta R.T.: -0.014 min
Response: 274838756
Conc: 224.90 ppb



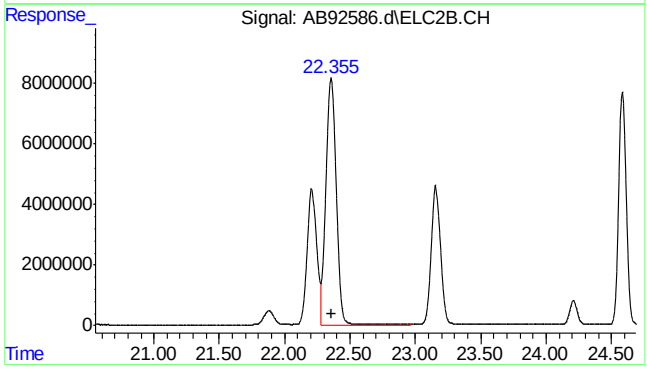
#27 2,3,4-trifluorotoluene #2

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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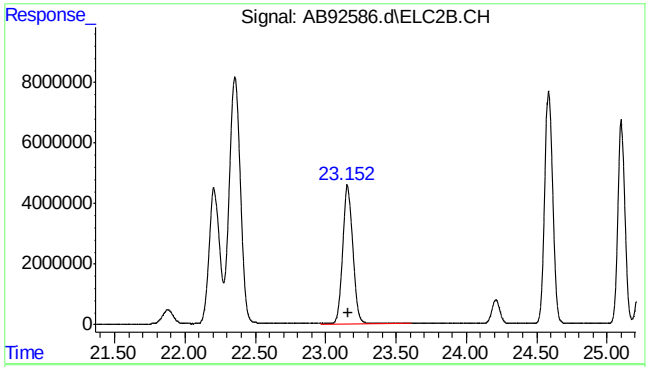
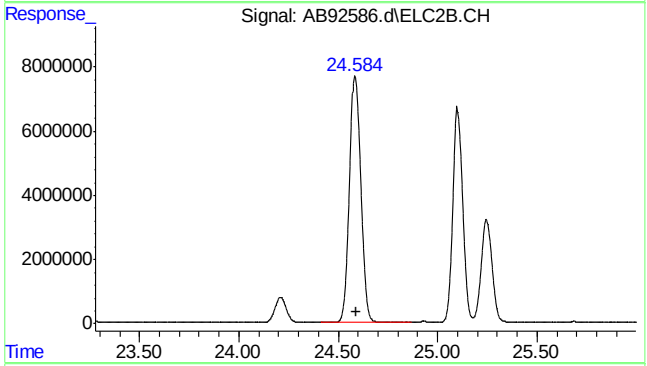


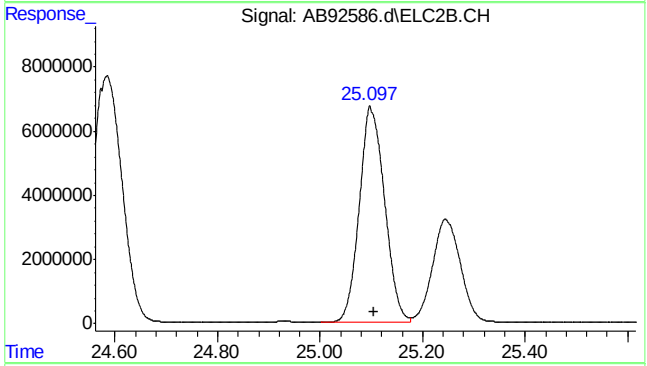
#30 o-xylene #2

R.T.: 23.154 min
Delta R.T.: -0.008 min
Response: 229262939
Conc: 229.59 ppb



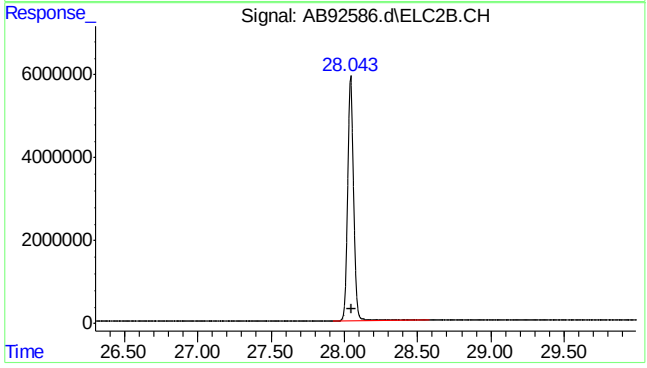
#31 1,3,5-trimethylbenzene #2

R.T.: 24.584 min
Delta R.T.: -0.004 min
Response: 312512766
Conc: 217.89 ppb



#32 1,2,4-trimethylbenzene #2

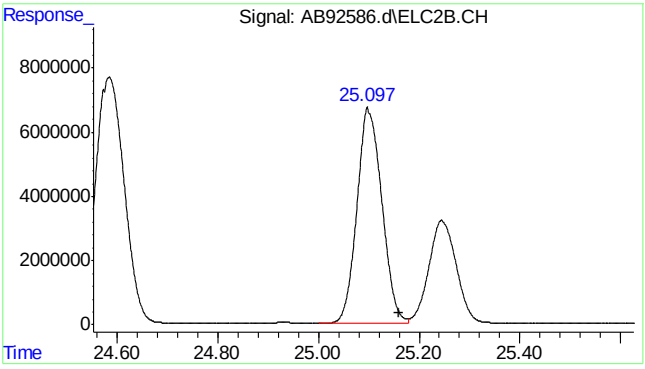
R.T.: 25.099 min
Delta R.T.: -0.006 min
Response: 231516865
Conc: 221.74 ppb



#33 naphthalene #2

R.T.: 28.043 min
Delta R.T.: -0.004 min
Response: 164135600
Conc: 197.83 ppb m

SGS ACCUTEST MC45678



#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

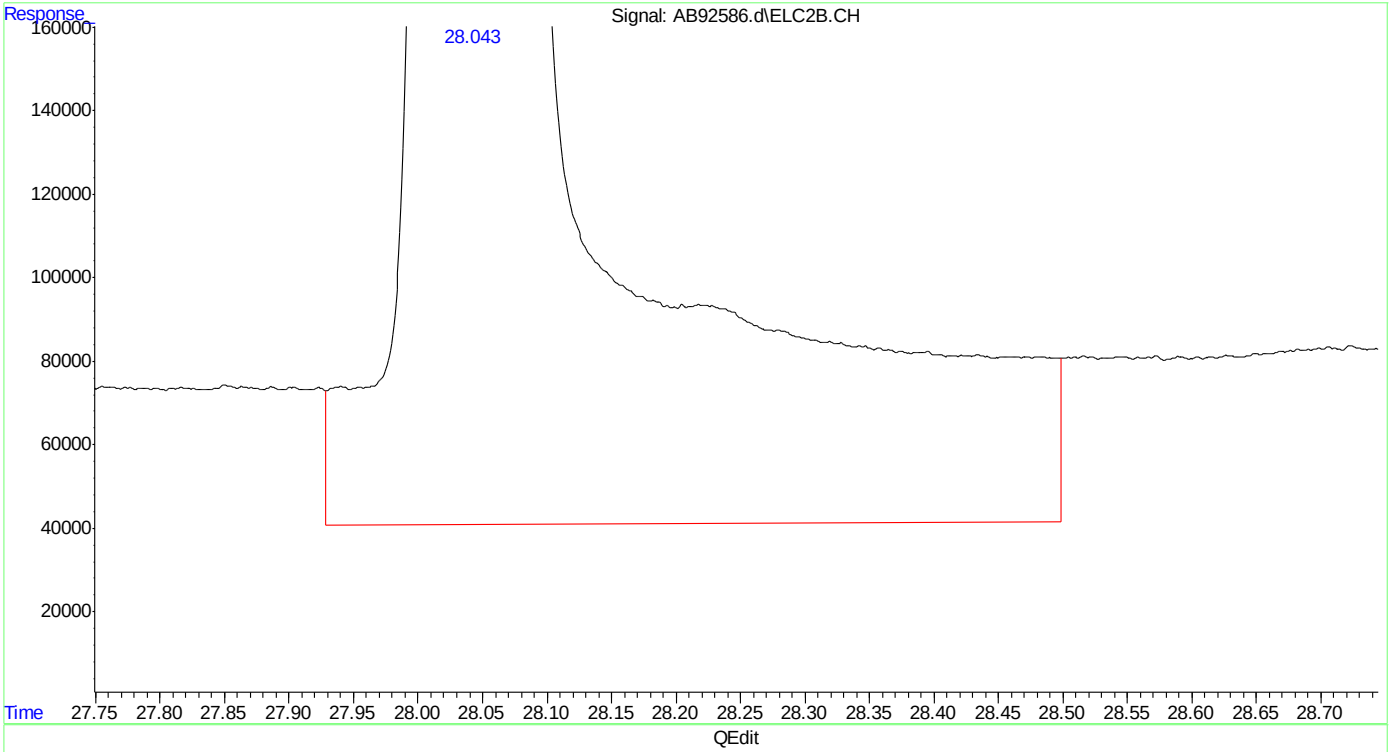
SGS ACCUTEST MC45678

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

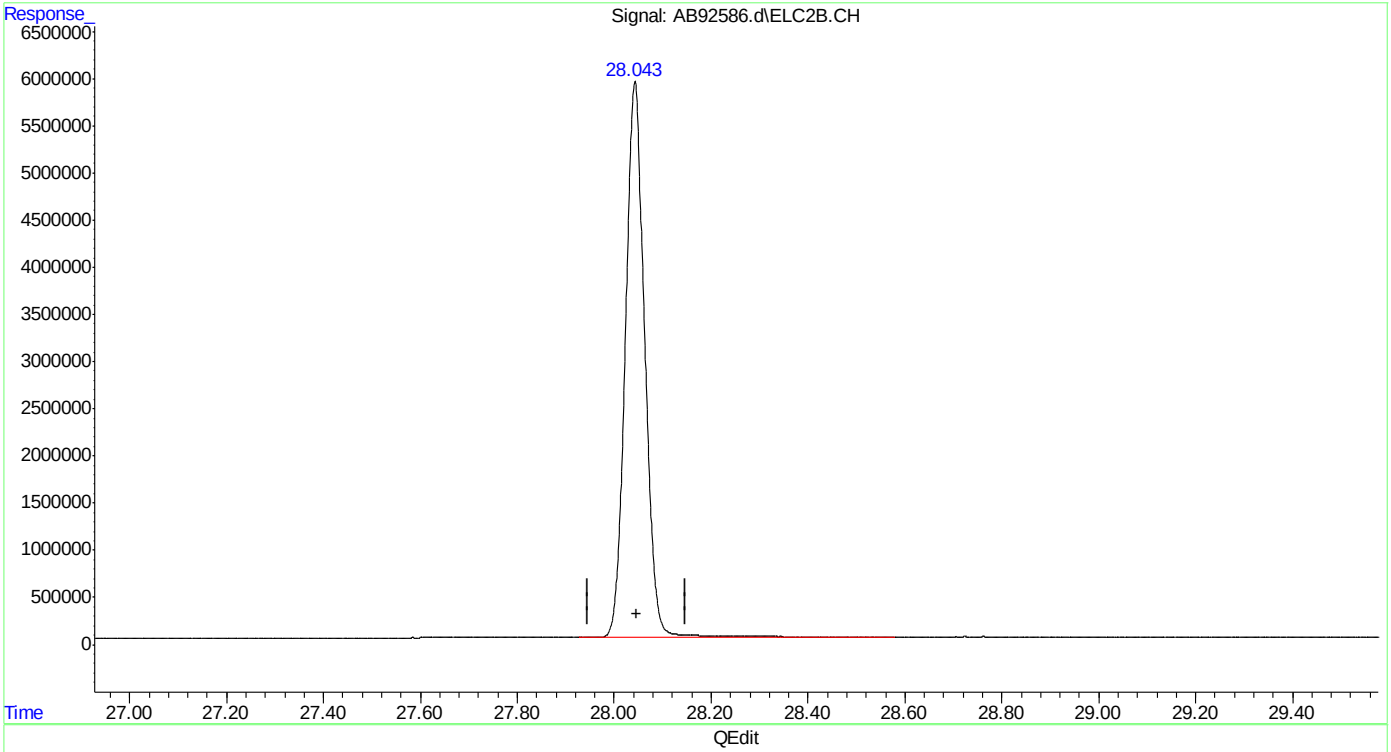
SGS ACCUTEST MC45678

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 MC45678

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.

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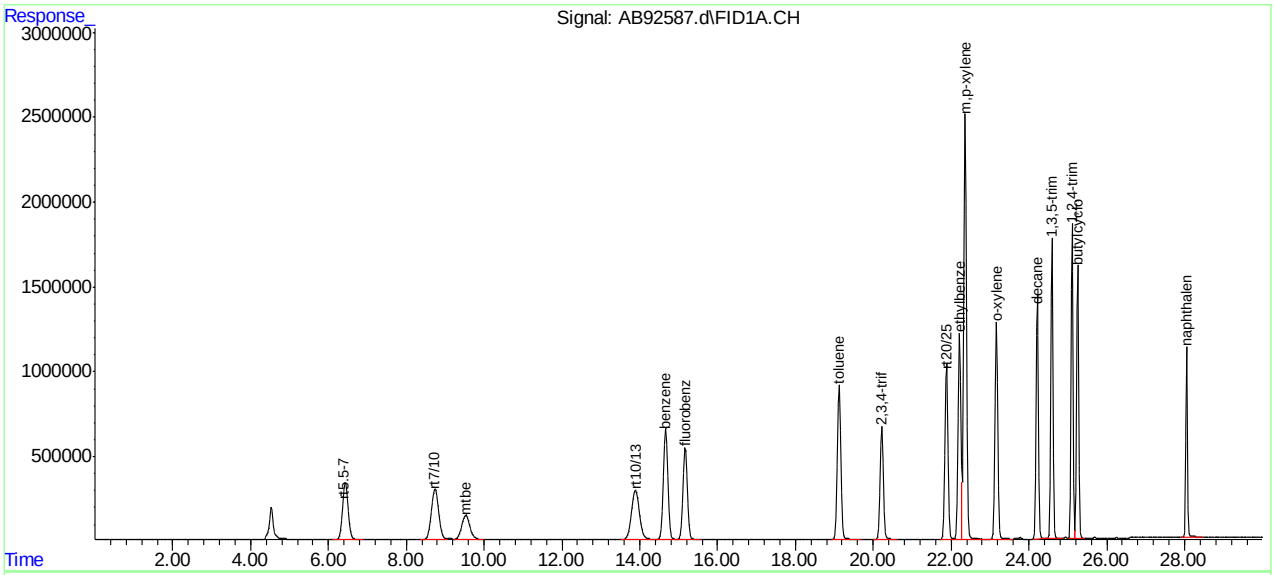
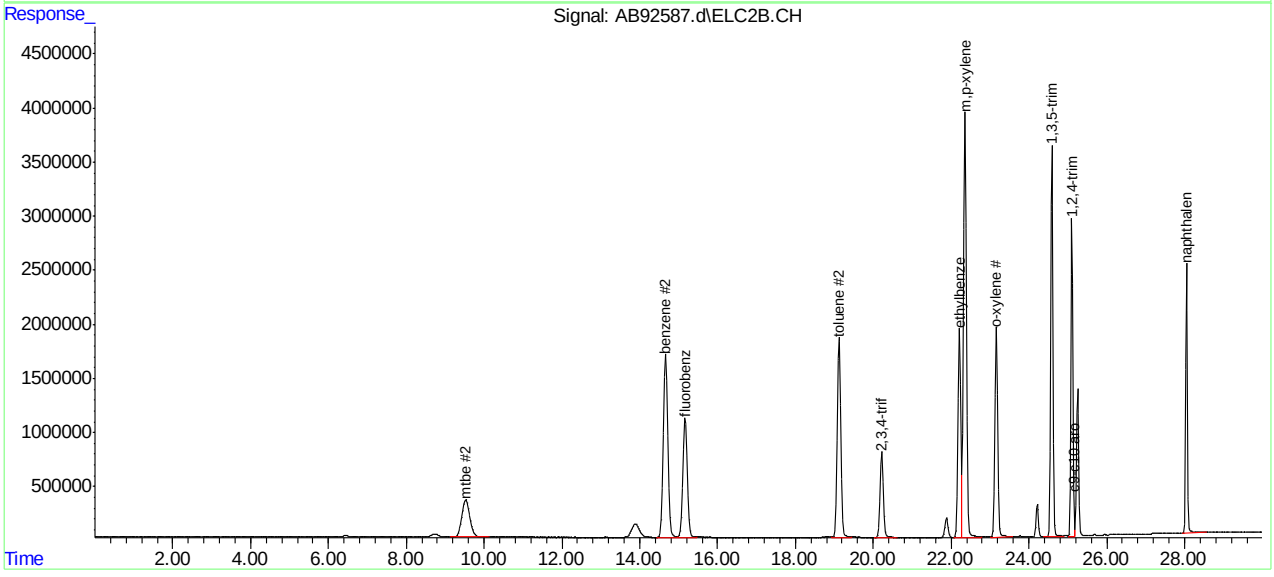
Quantitation Report (QT Reviewed)

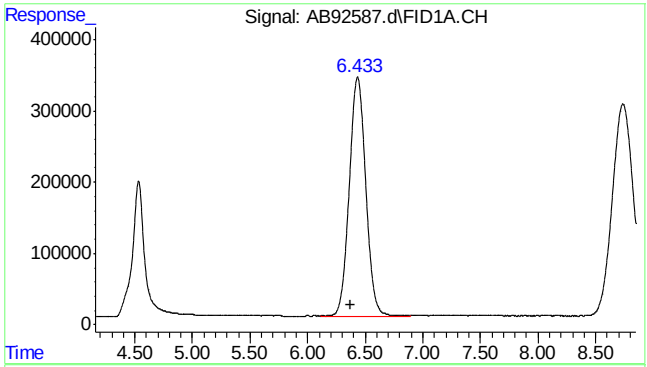
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

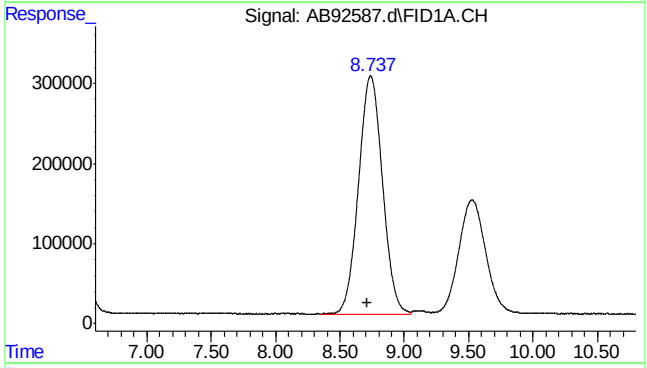






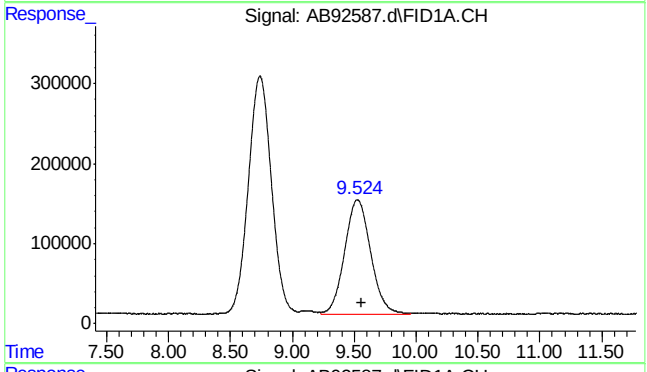
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 33420619
Conc: 86.69 ppb m



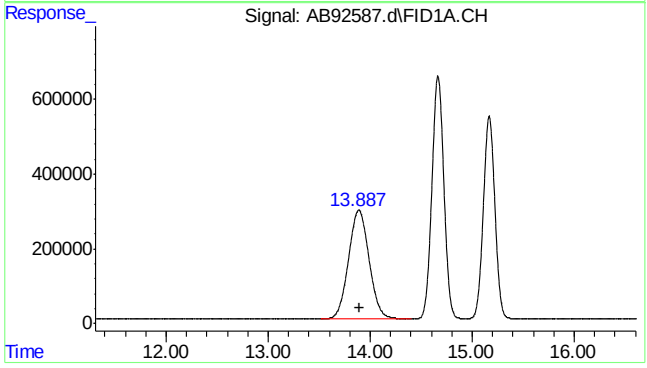
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 38500243
Conc: 87.40 ppb m



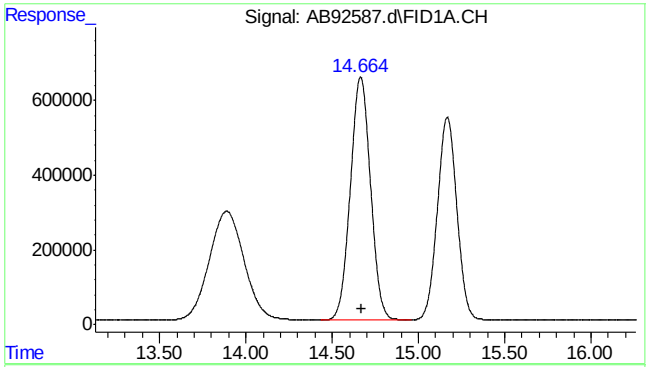
#3 mtbe

R.T.: 9.524 min
Delta R.T.: -0.041 min
Response: 20798394
Conc: 94.06 ppb



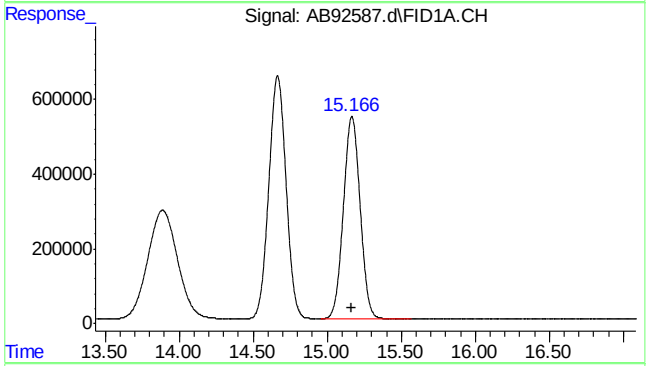
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 40723060
Conc: 81.71 ppb m



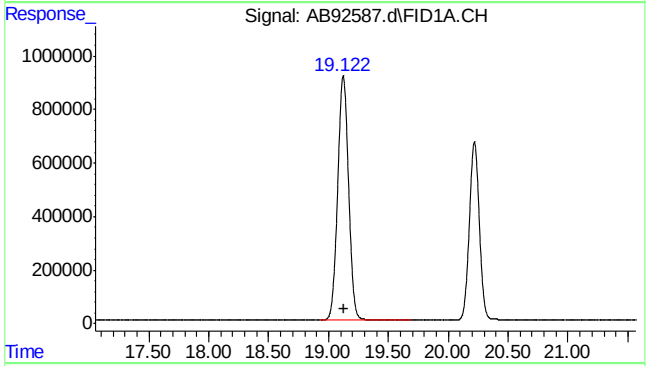
#5 benzene

R.T.: 14.665 min
Delta R.T.: -0.009 min
Response: 52977749
Conc: 95.43 ppb



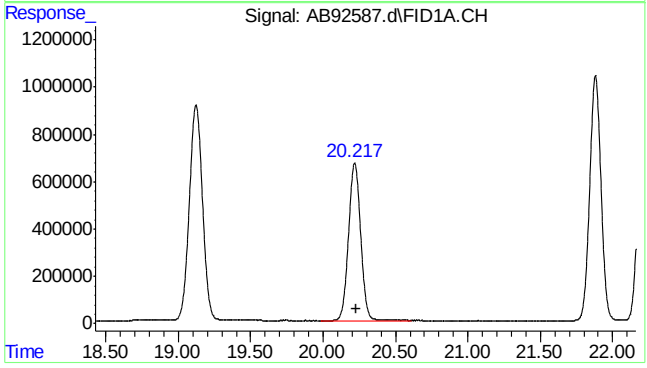
#6 fluorobenzene

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

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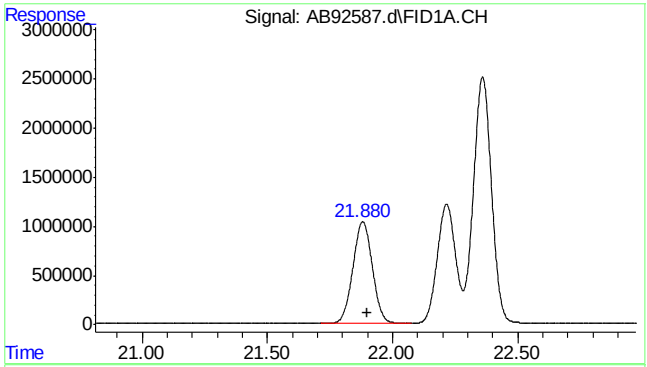
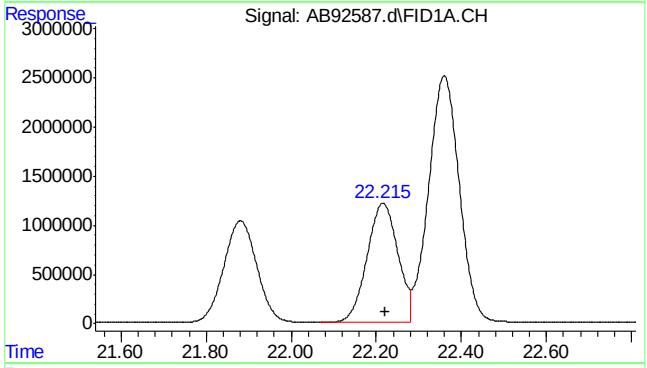


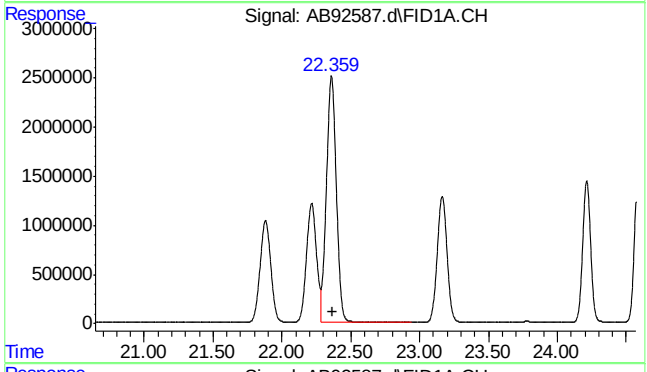
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 55977584
Conc: 89.47 ppb m



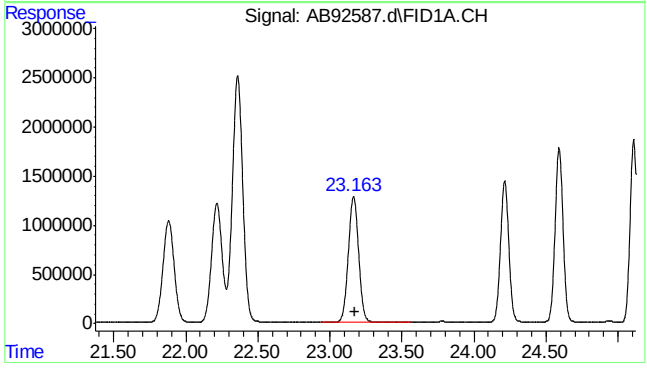
#13 ethylbenzene

R.T.: 22.216 min
Delta R.T.: -0.005 min
Response: 61308787
Conc: 94.47 ppb



#14 m,p-xylene

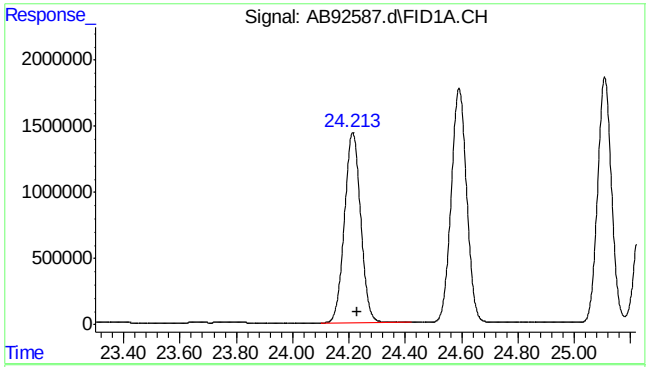
R.T.: 22.360 min
Delta R.T.: -0.010 min
Response: 126492488
Conc: 186.46 ppb



#15 o-xylene

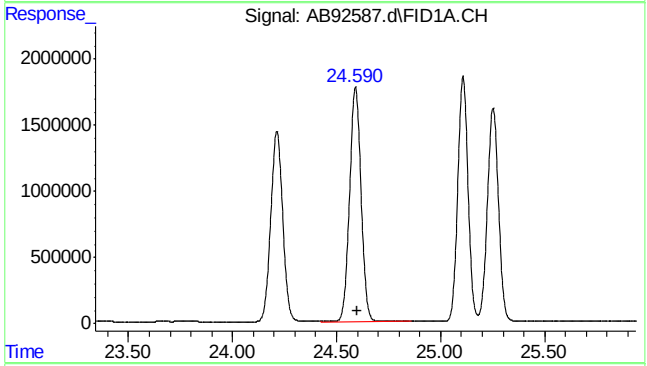
R.T.: 23.164 min
Delta R.T.: -0.011 min
Response: 63851790
Conc: 94.18 ppb

SGS ACCUTEST MC45678



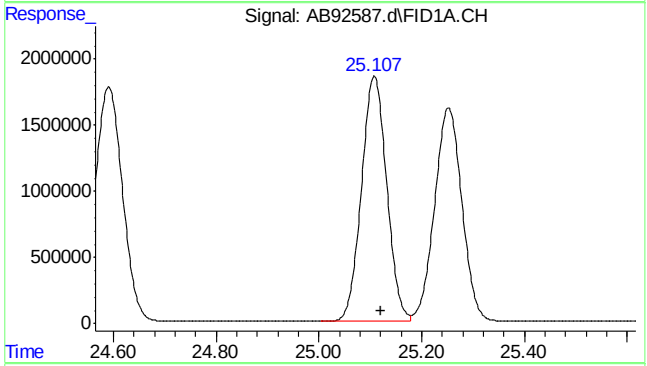
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 57632960
Conc: 89.63 ppb



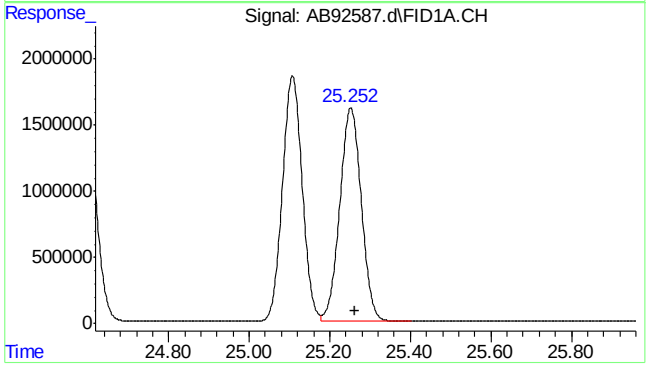
#17 1,3,5-trimethylbenzene

R.T.: 24.591 min
Delta R.T.: -0.010 min
Response: 68200557
Conc: 92.86 ppb



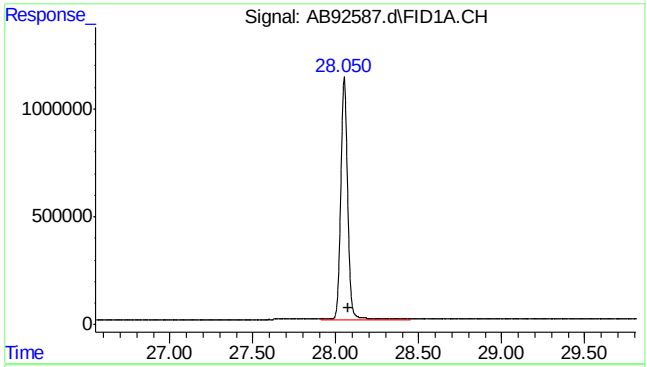
#18 1,2,4-trimethylbenzene

R.T.: 25.108 min
Delta R.T.: -0.013 min
Response: 63362367
Conc: 92.43 ppb



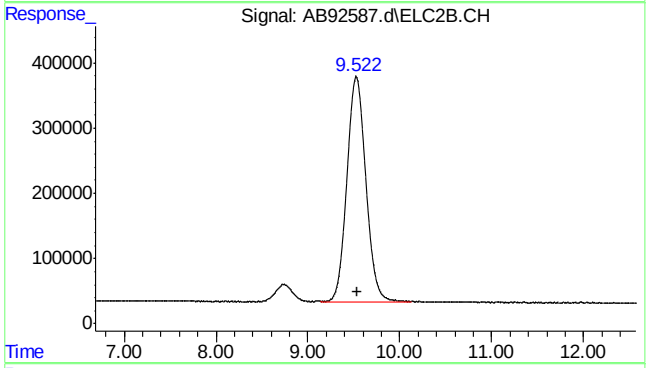
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 60198202
Conc: 84.98 ppb m



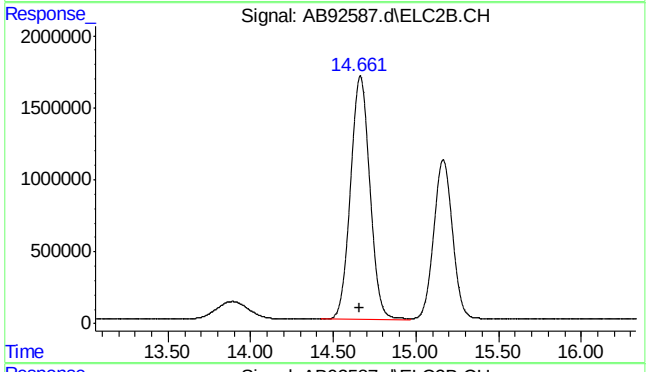
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: -0.026 min
Response: 33356972
Conc: 83.46 ppb



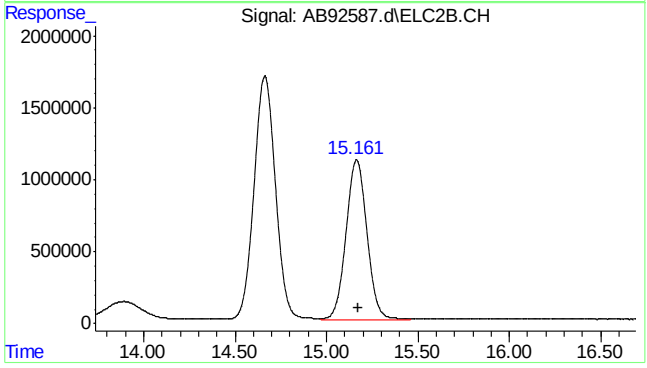
#23 mtbe #2

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

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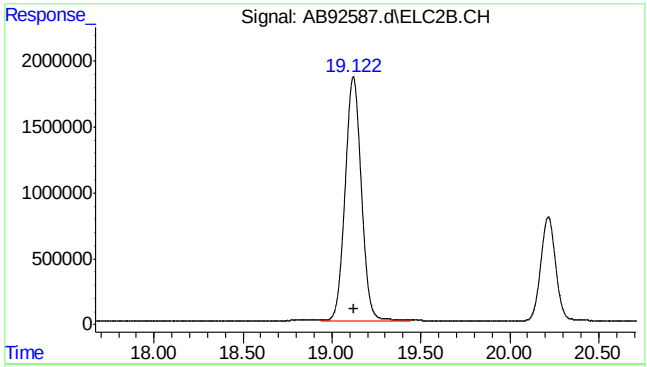
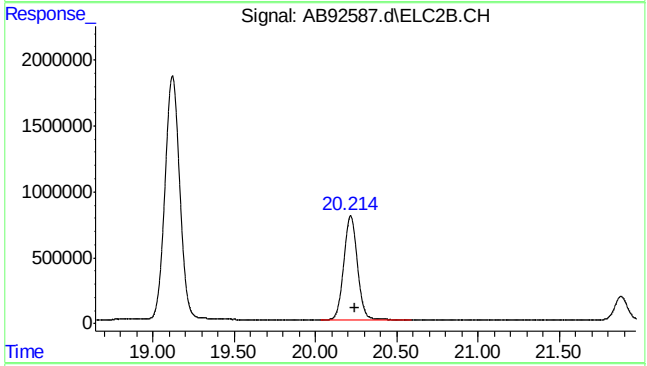


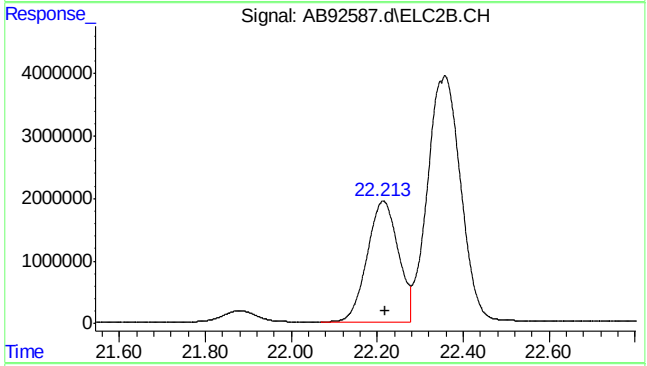
#26 toluene #2

R.T.: 19.120 min
Delta R.T.: -0.006 min
Response: 117752936
Conc: 95.66 ppb



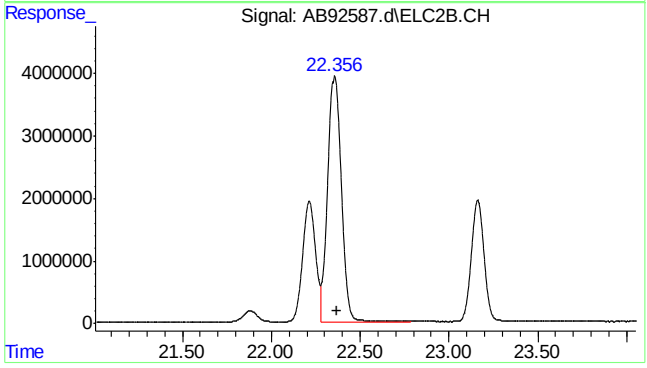
#27 2,3,4-trifluorotoluene #2

R.T.: 20.214 min
Delta R.T.: -0.027 min
Response: 46259176
Conc: 95.56 ppb m



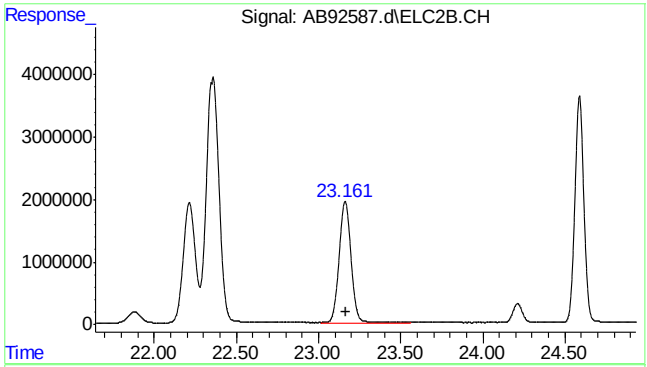
#28 ethylbenzene #2

R.T.: 22.213 min
Delta R.T.: -0.006 min
Response: 97082156
Conc: 98.98 ppb



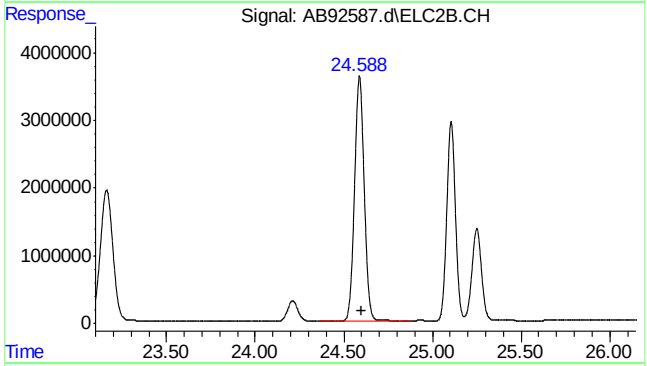
#29 m,p-xylene #2

R.T.: 22.357 min
Delta R.T.: -0.012 min
Response: 212950656
Conc: 175.33 ppb



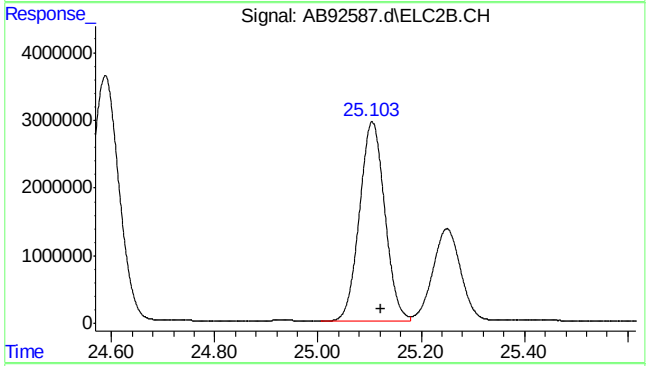
#30 o-xylene #2

R.T.: 23.162 min
Delta R.T.: -0.008 min
Response: 97755578
Conc: 97.48 ppb



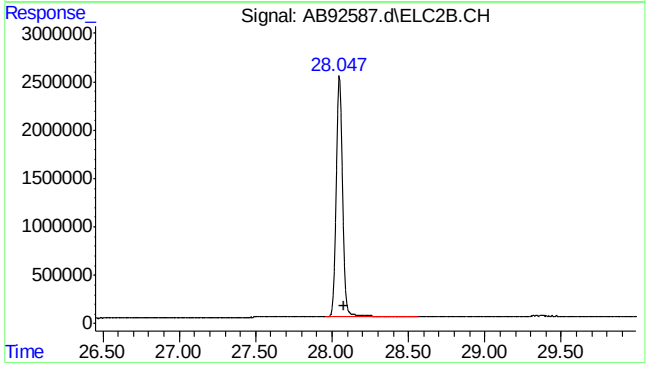
#31 1,3,5-trimethylbenzene #2

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

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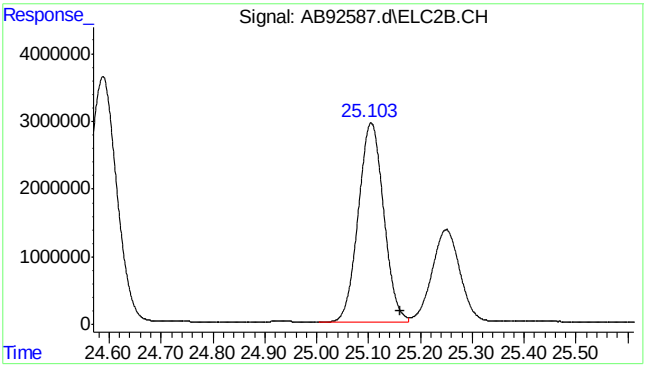



```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 100268044
      Conc:  95.08 ppb m
```

7.5.4

7

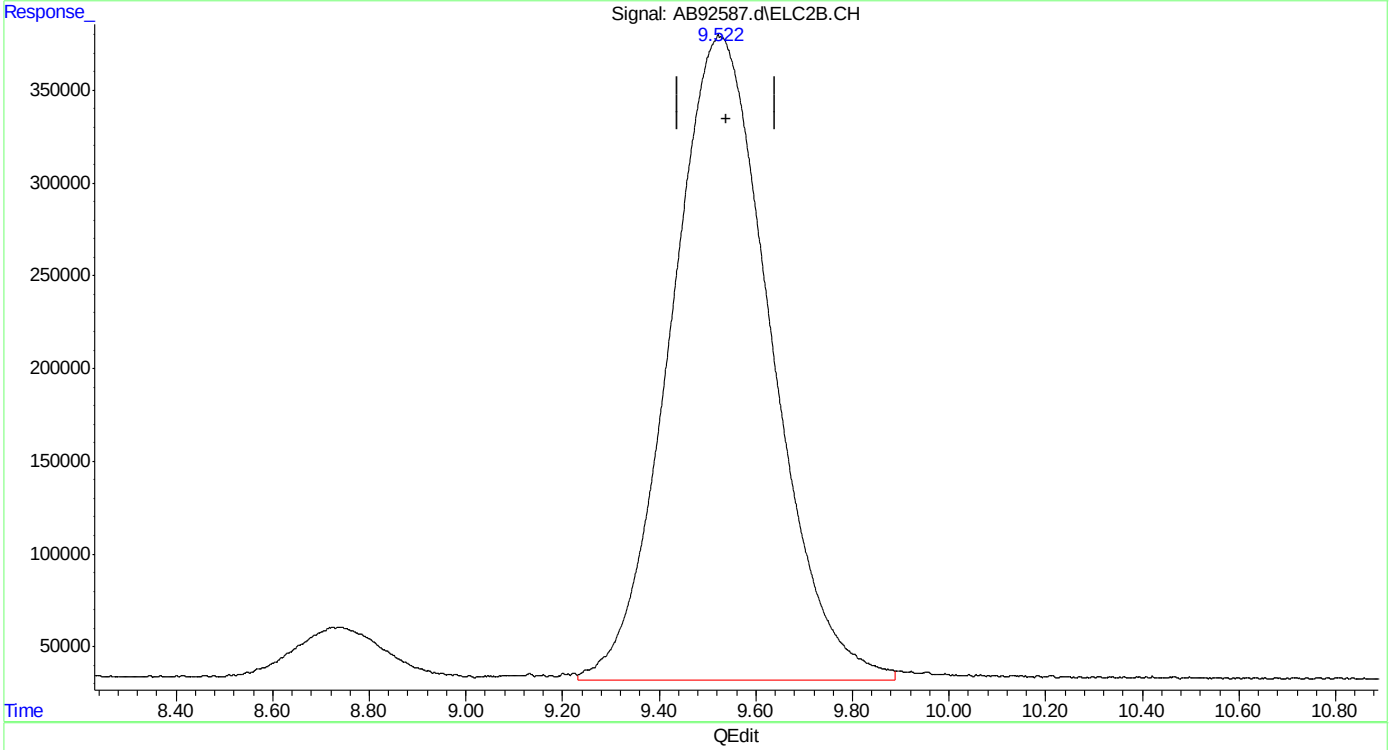
SGS ACCUTEST MC45678

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

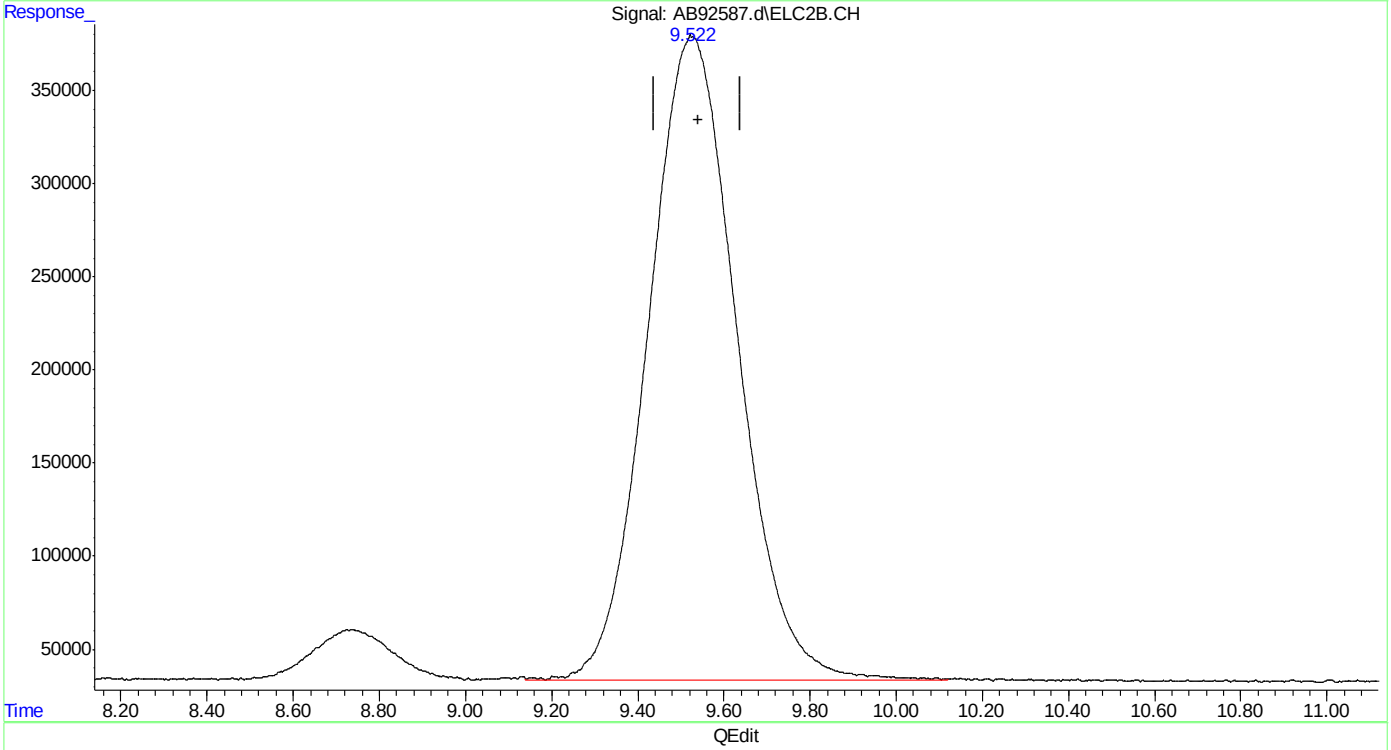
SGS ACCUTEST MC45678

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

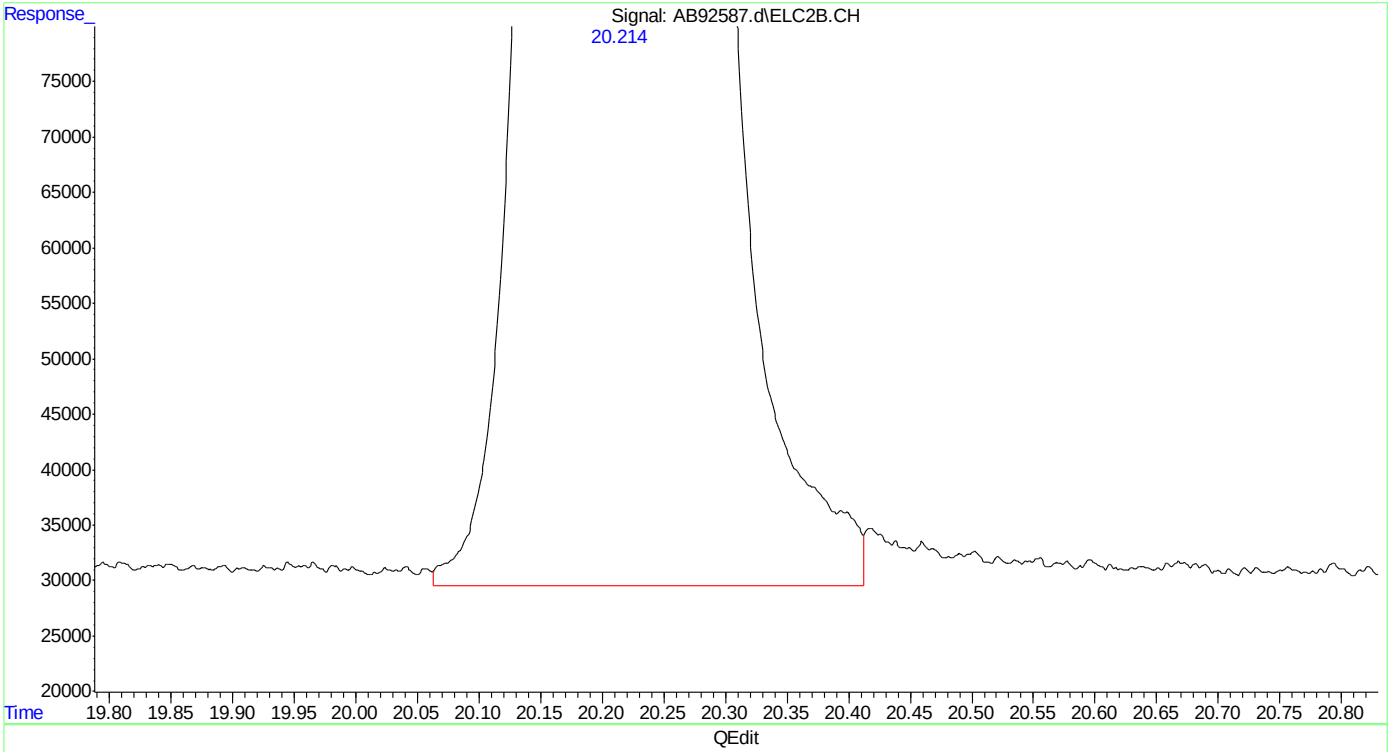
SGS ACCUTEST MC45678

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

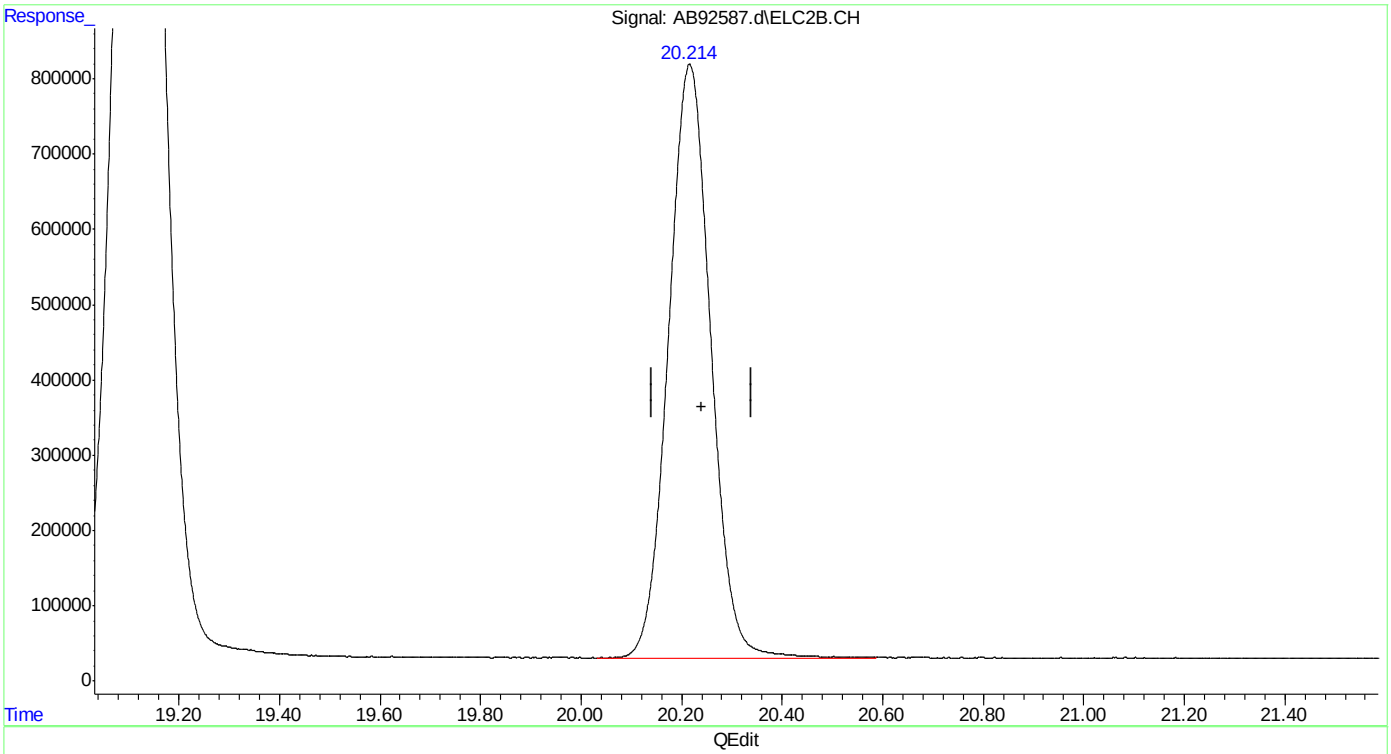
SGS ACCUTEST MC45678

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

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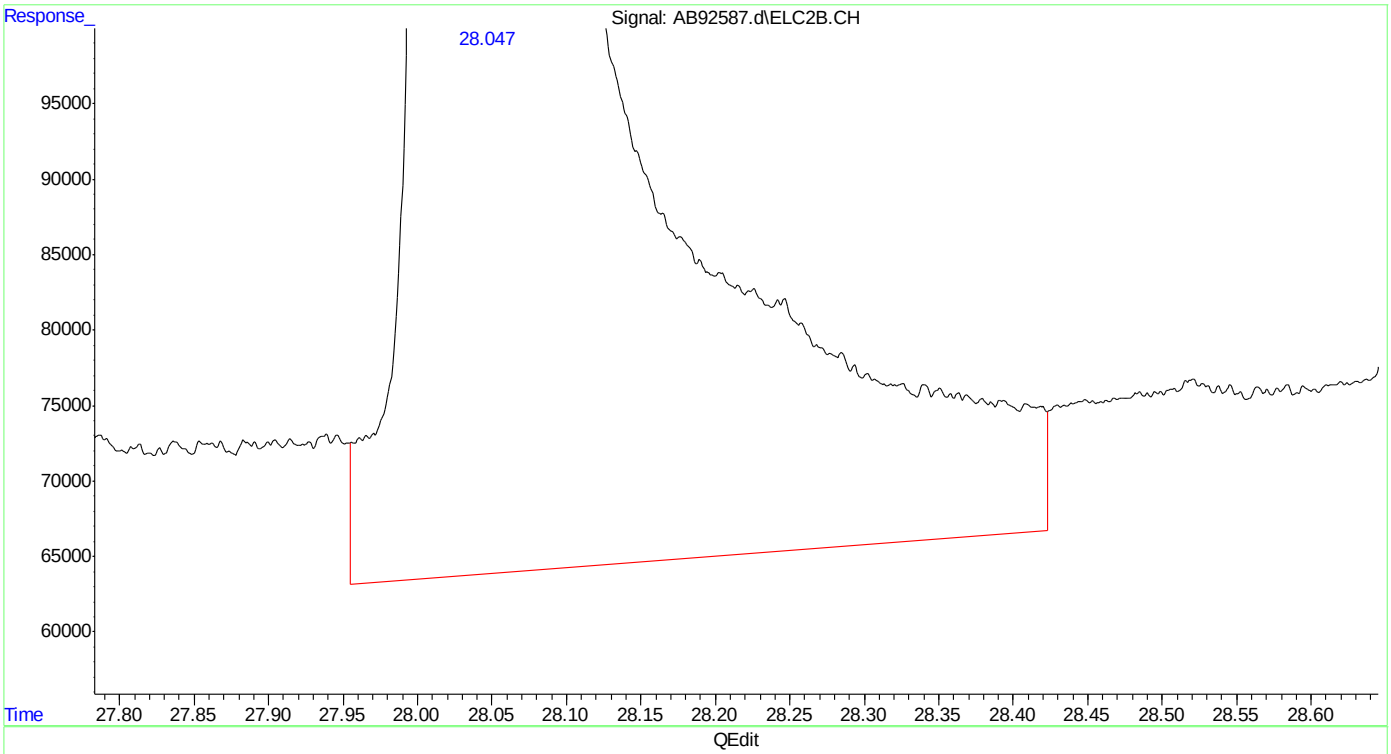
Quantitation Report (Qedit)

```
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

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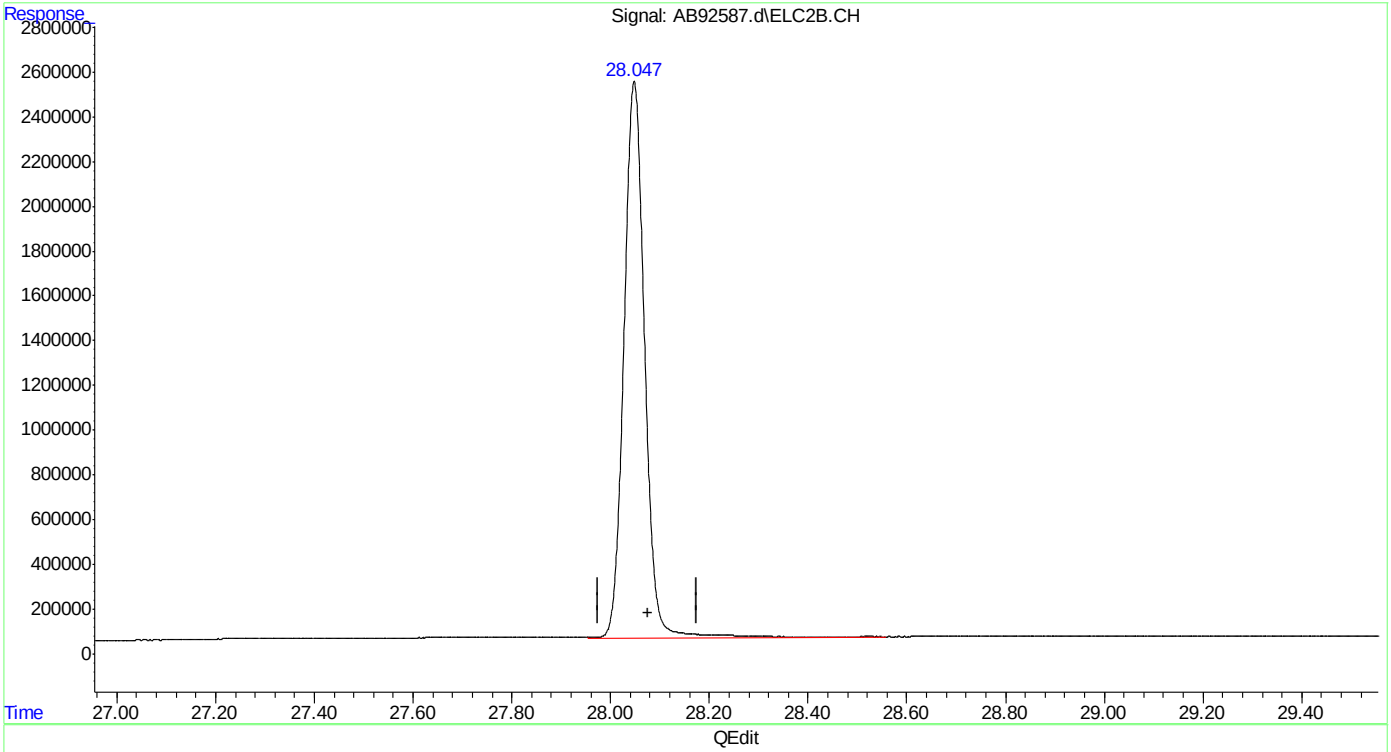
Quantitation Report (Qedit)

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

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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 : 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.

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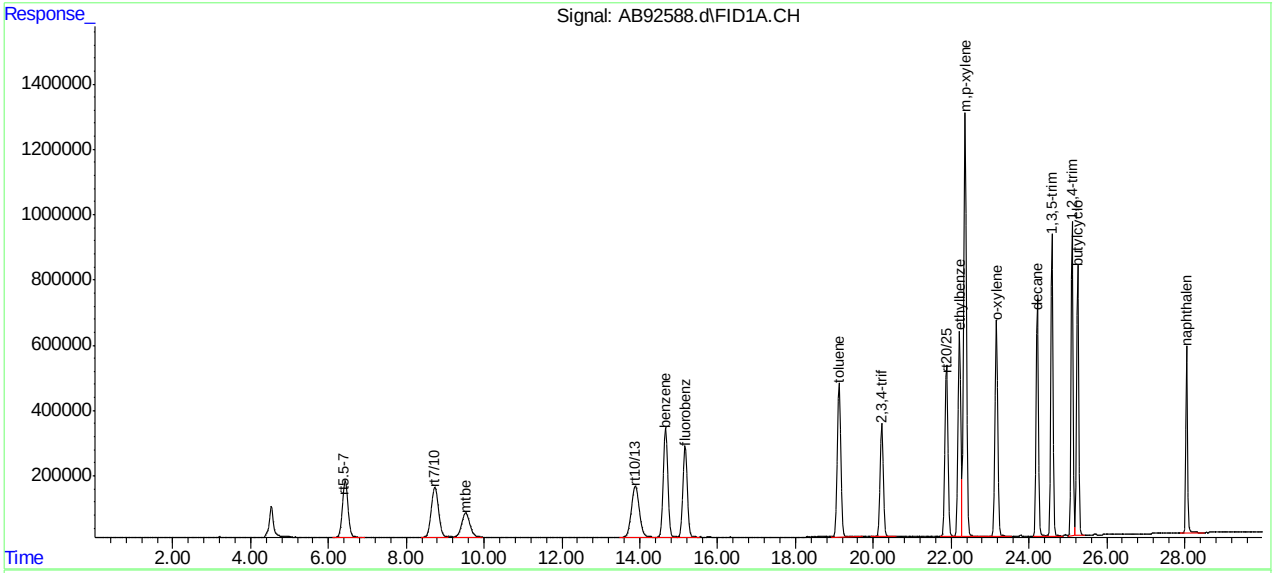
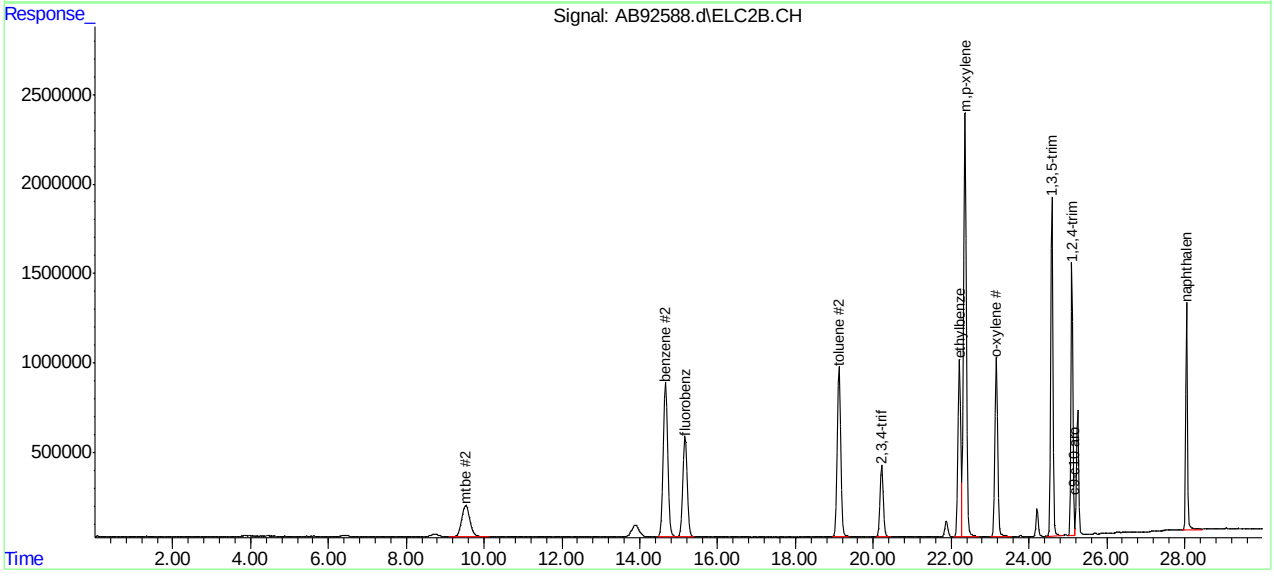
Quantitation Report (QT Reviewed)

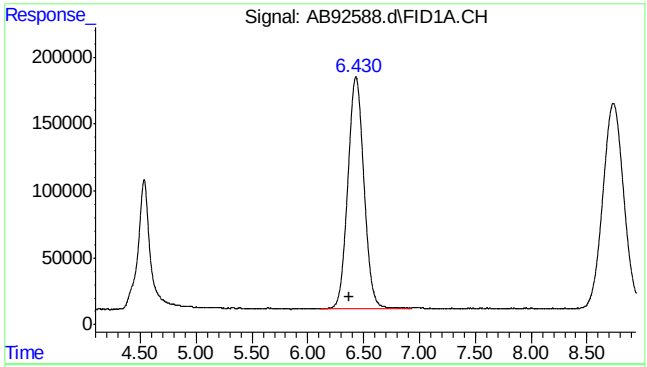
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92588.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:55:55
Operator : haleyn
Sample : icc5058-50
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

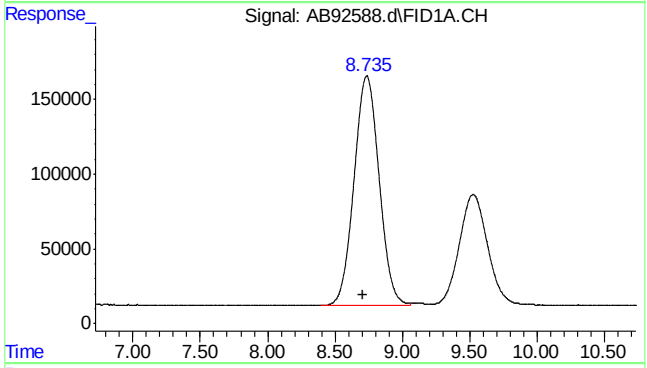






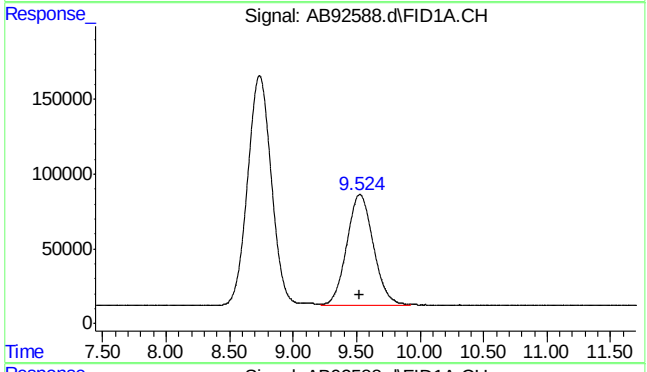
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 17341856
Conc: 50.02 ppb m



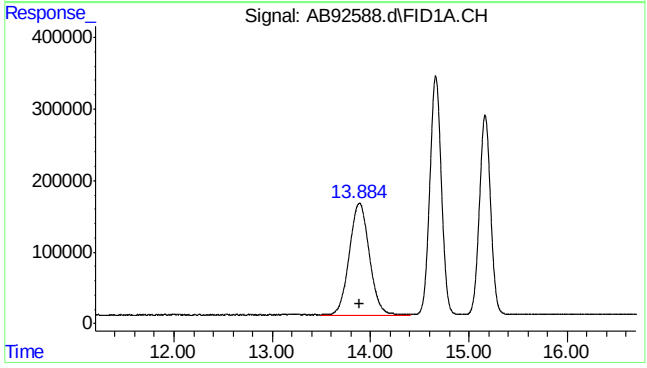
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 19931281
Conc: 50.03 ppb m



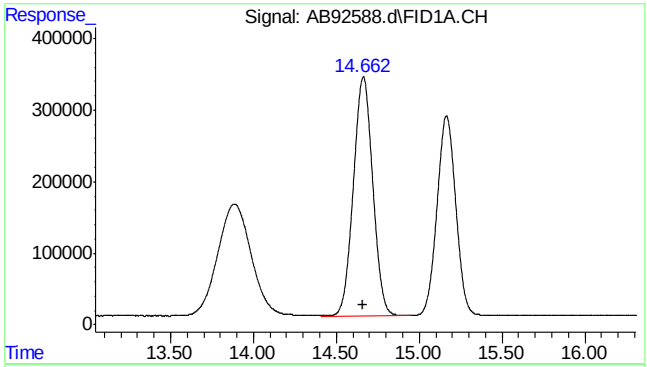
#3 mtbe

R.T.: 9.525 min
Delta R.T.: 0.000 min
Response: 10910216
Conc: 50.00 ppb



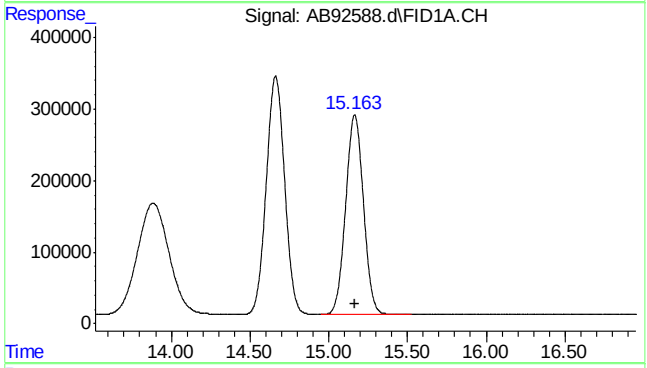
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 22107974
Conc: 50.00 ppb m



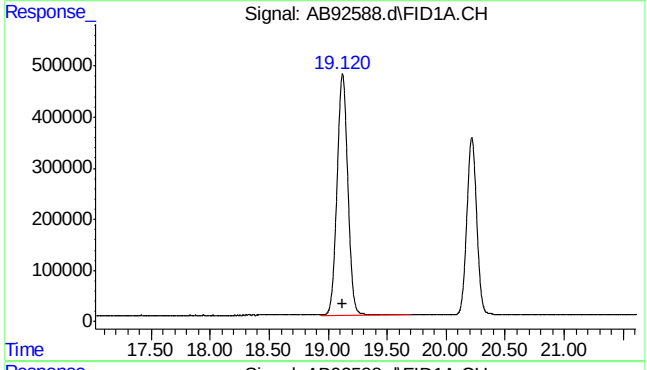
#5 benzene

R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 27232844
Conc: 50.00 ppb



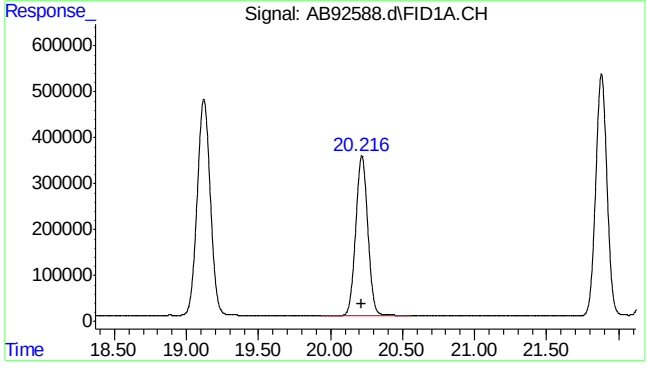
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: 0.000 min
Response: 22113709
Conc: 50.00 ppb



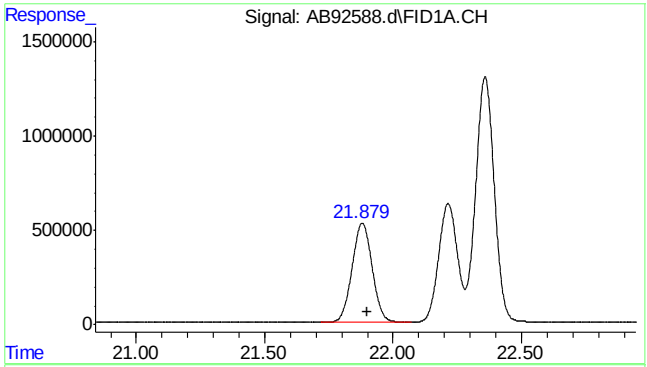
#8 toluene

R.T.: 19.121 min
Delta R.T.: 0.000 min
Response: 30034928
Conc: 50.00 ppb



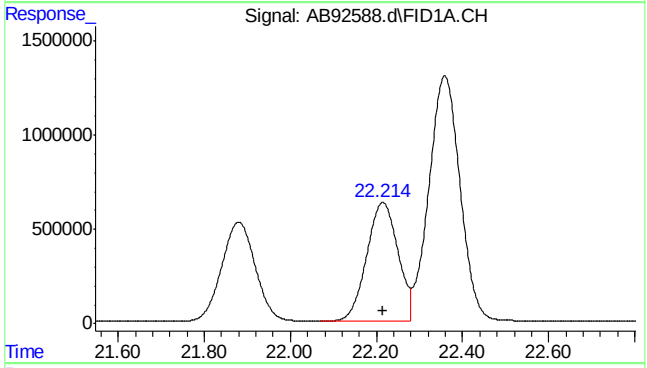
#9 2,3,4-trifluorotoluene

R.T.: 20.217 min
Delta R.T.: 0.000 min
Response: 20310808
Conc: 50.00 ppb



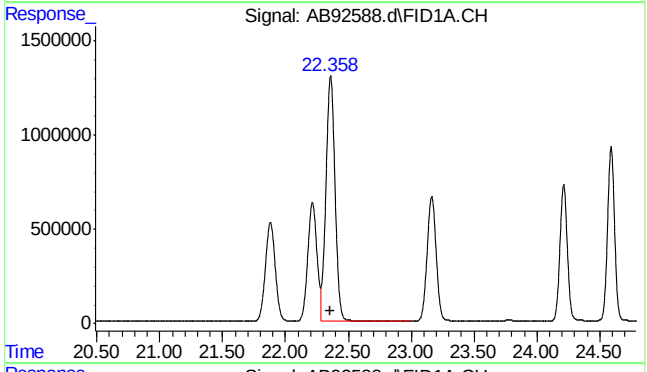
#11 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:  28560611
      Conc:  50.00 ppb m
```



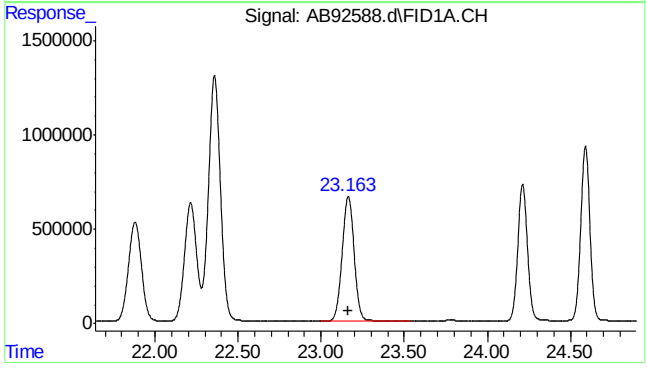
#13 ethylbenzene

```
      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
```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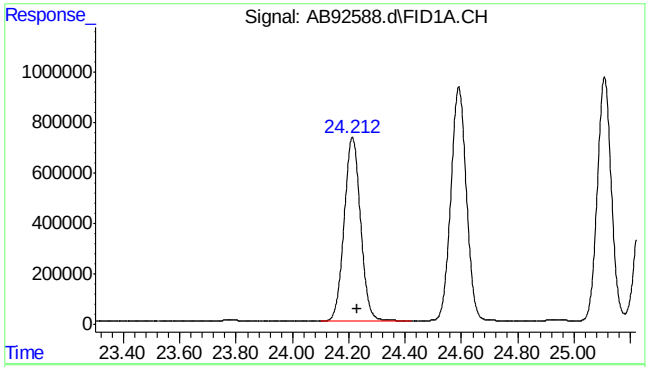
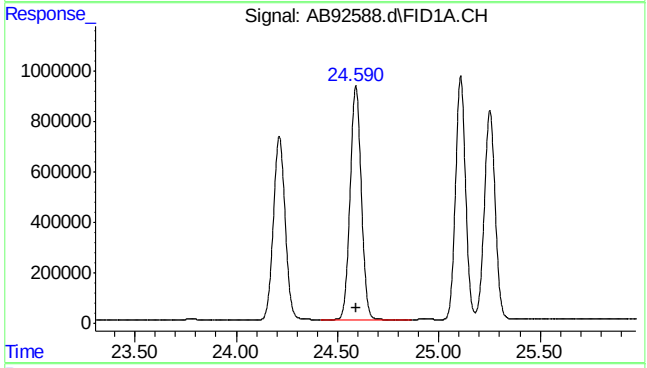


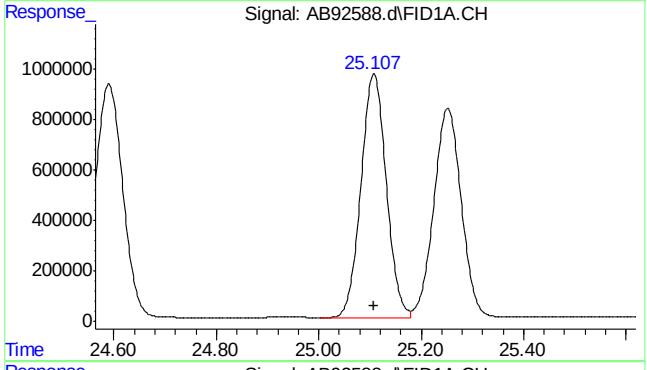
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 29380393
Conc: 50.00 ppb



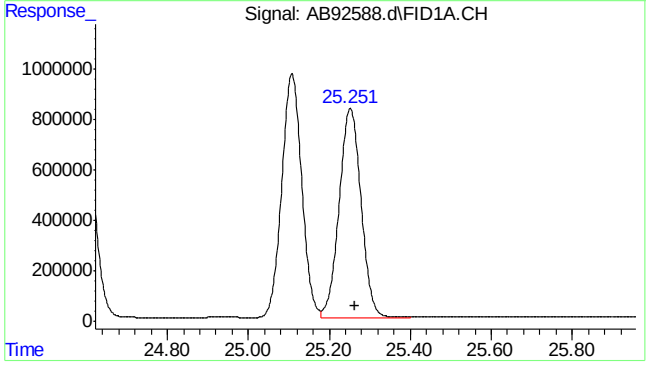
#17 1,3,5-trimethylbenzene

R.T.: 24.590 min
Delta R.T.: 0.000 min
Response: 35683239
Conc: 50.00 ppb



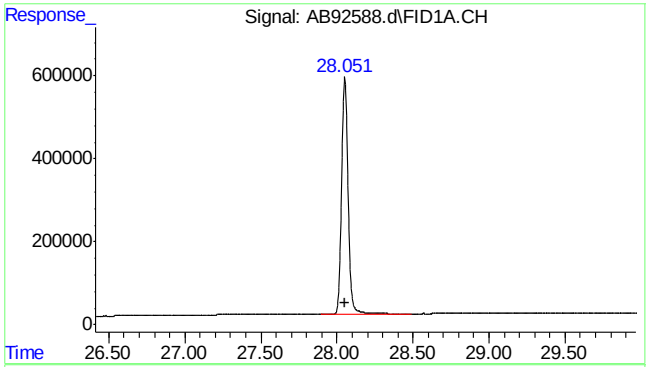
#18 1,2,4-trimethylbenzene

R.T.: 25.108 min
Delta R.T.: 0.000 min
Response: 33124851
Conc: 50.00 ppb



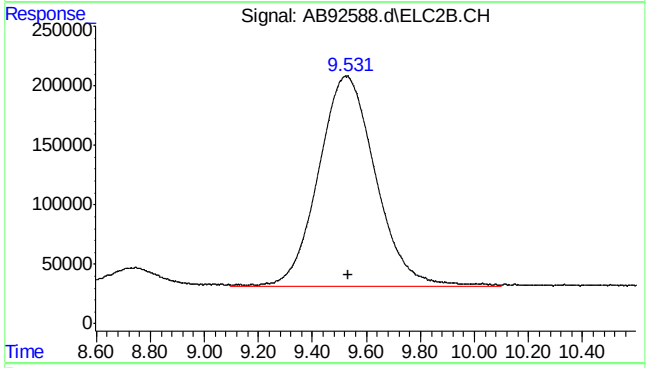
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 30974569
Conc: 50.02 ppb m



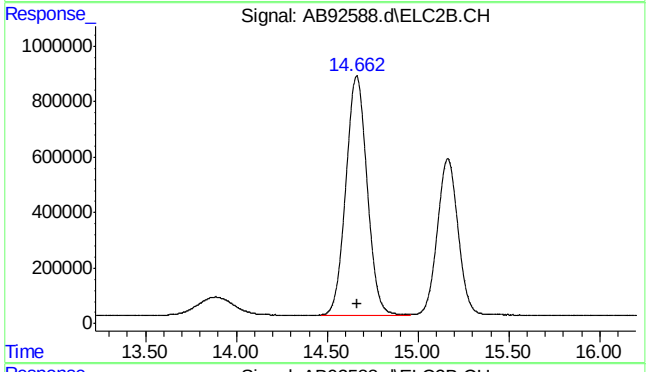
#20 naphthalene

R.T.: 28.051 min
Delta R.T.: 0.000 min
Response: 17061887
Conc: 50.03 ppb m



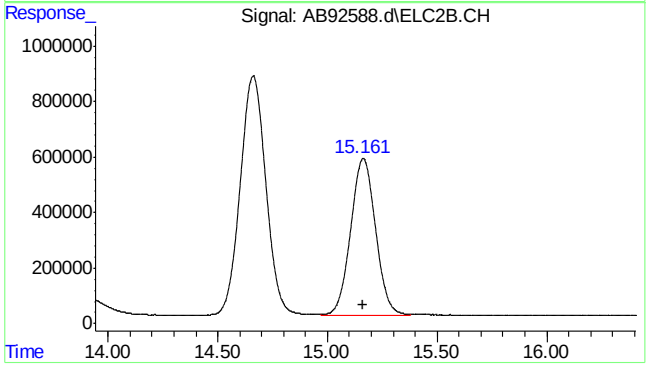
#23 mtbe #2

R.T.: 9.531 min
Delta R.T.: 0.000 min
Response: 25843788
Conc: 50.08 ppb m



#24 benzene #2

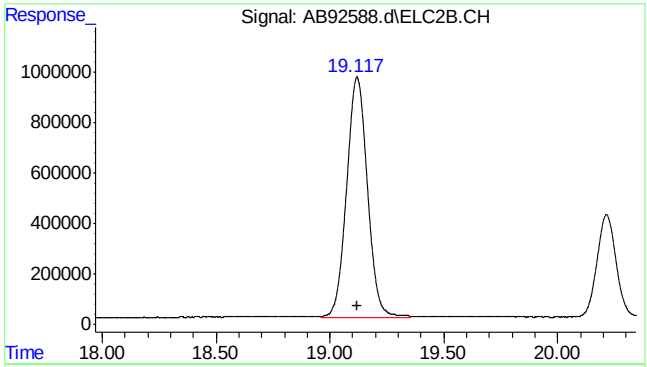
R.T.: 14.662 min
Delta R.T.: 0.000 min
Response: 70338009
Conc: 50.00 ppb



#25 fluorobenzene #2

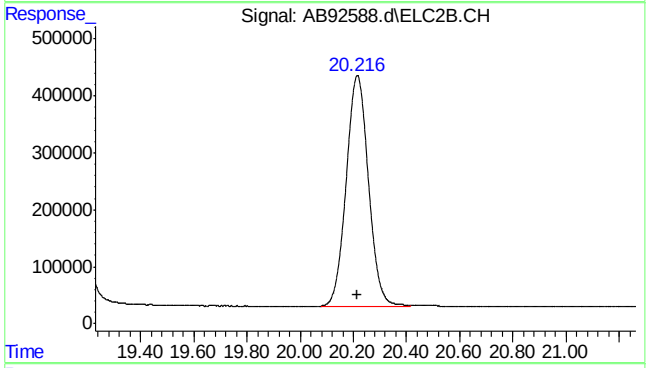
R.T.: 15.162 min
Delta R.T.: 0.000 min
Response: 44830746
Conc: 50.00 ppb

SGS ACCUTEST MC45678



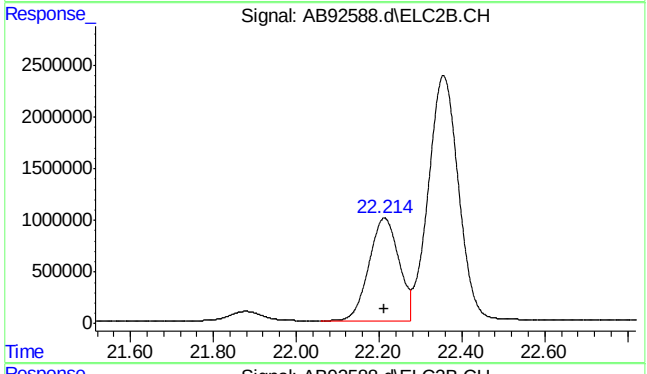
#26 toluene #2

R.T.: 19.118 min
Delta R.T.: 0.000 min
Response: 60419568
Conc: 50.00 ppb



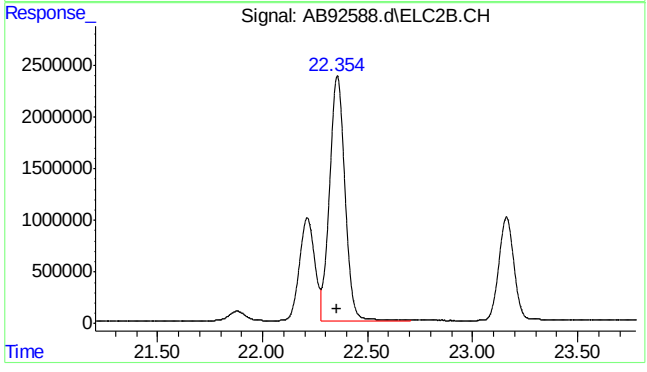
#27 2,3,4-trifluorotoluene #2

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



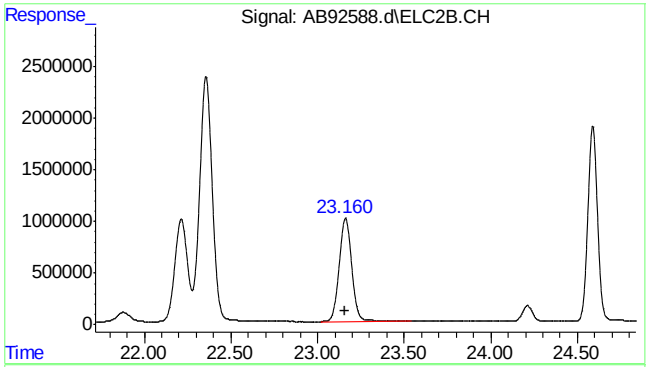
#29 m,p-xylene #2

R.T.: 22.356 min
Delta R.T.: 0.000 min
Response: 120749462
Conc: 100.00 ppb

7.5.5

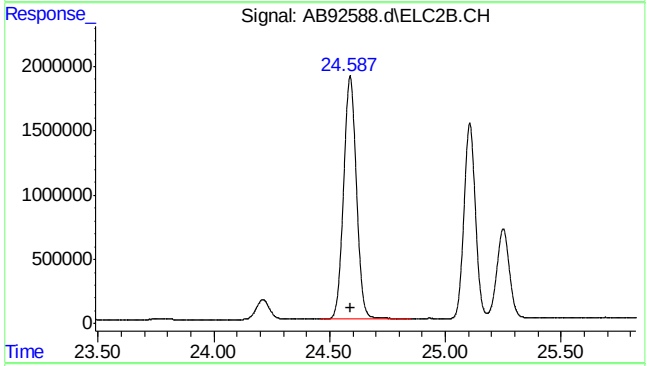
7

SGS ACCUTEST MC45678



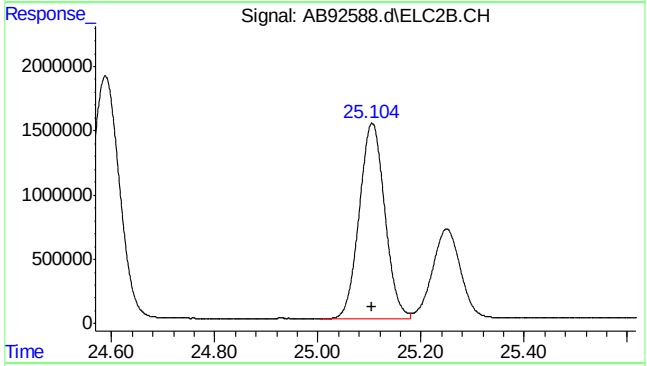
#30 o-xylene #2

R.T.: 23.161 min
Delta R.T.: 0.000 min
Response: 50672944
Conc: 50.00 ppb



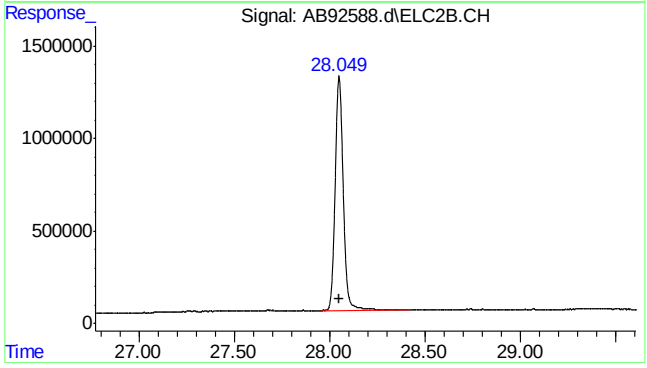
#31 1,3,5-trimethylbenzene #2

R.T.: 24.588 min
Delta R.T.: 0.000 min
Response: 73024638
Conc: 50.00 ppb



#32 1,2,4-trimethylbenzene #2

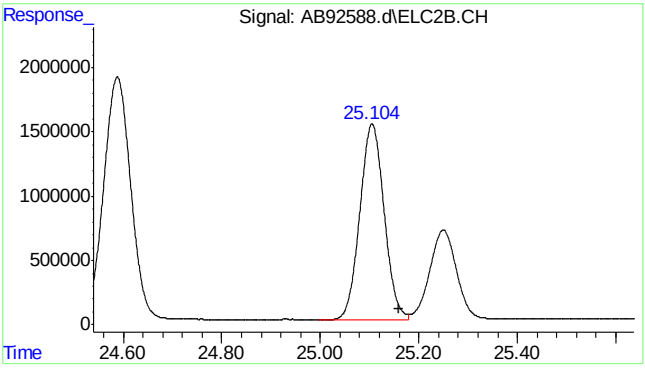
R.T.: 25.105 min
Delta R.T.: 0.000 min
Response: 52288916
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 28.049 min
Delta R.T.: 0.000 min
Response: 37670302
Conc: 50.00 ppb m

SGS ACCUTEST MC45678



#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

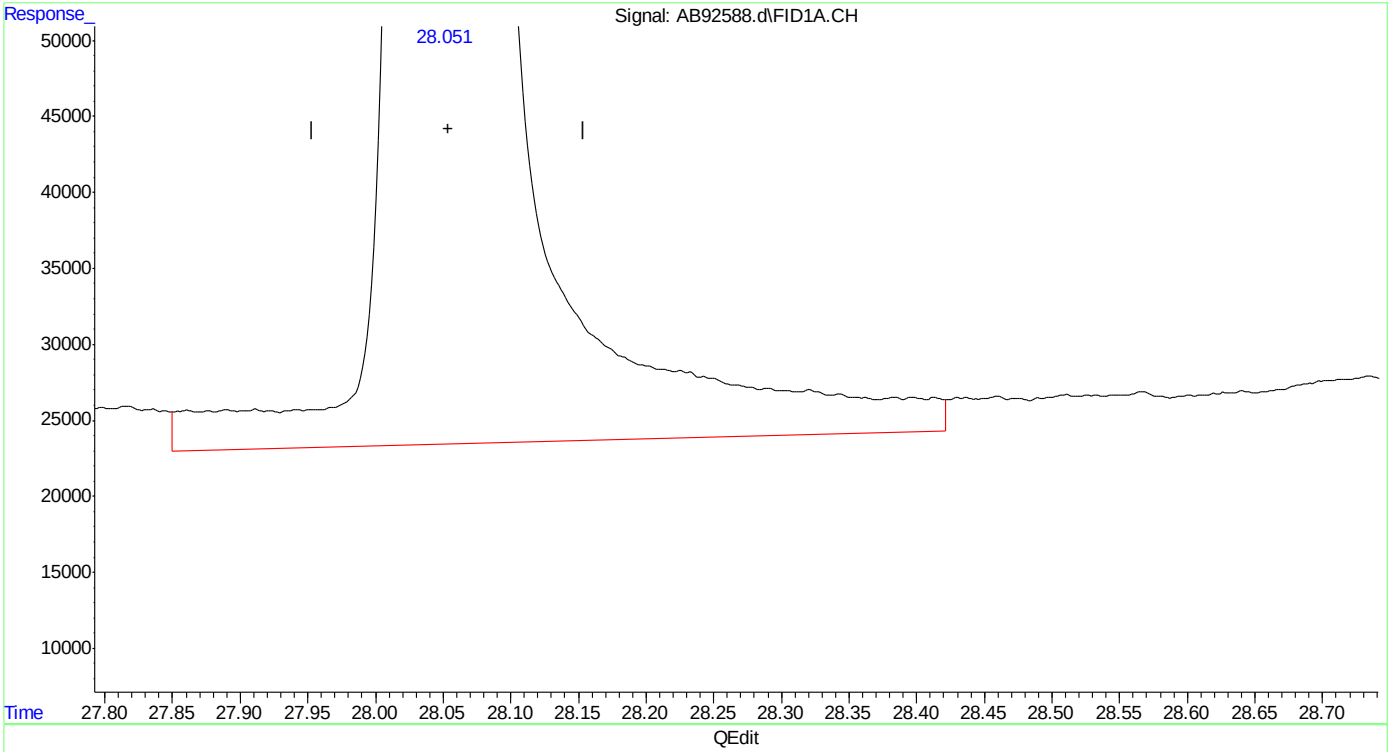
SGS ACCUTEST MC45678

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

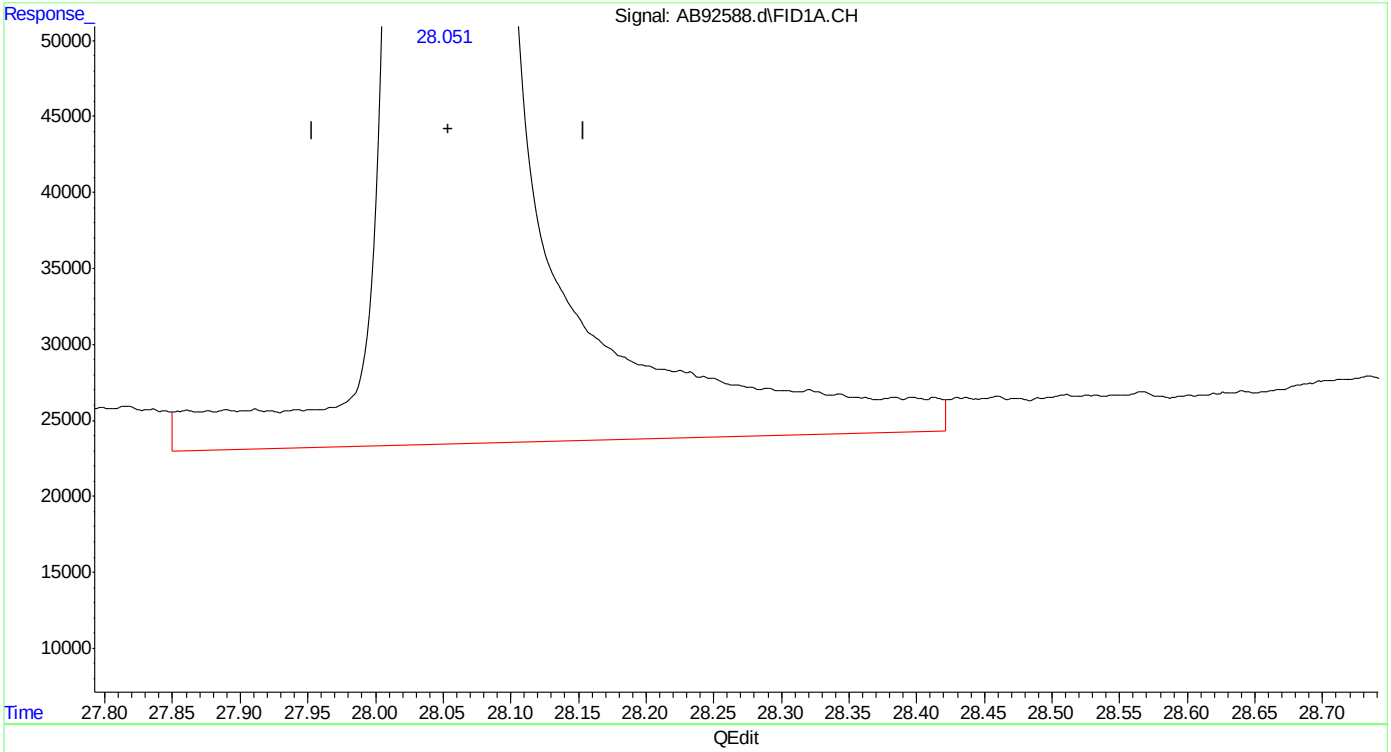
(+) = Expected Retention Time

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

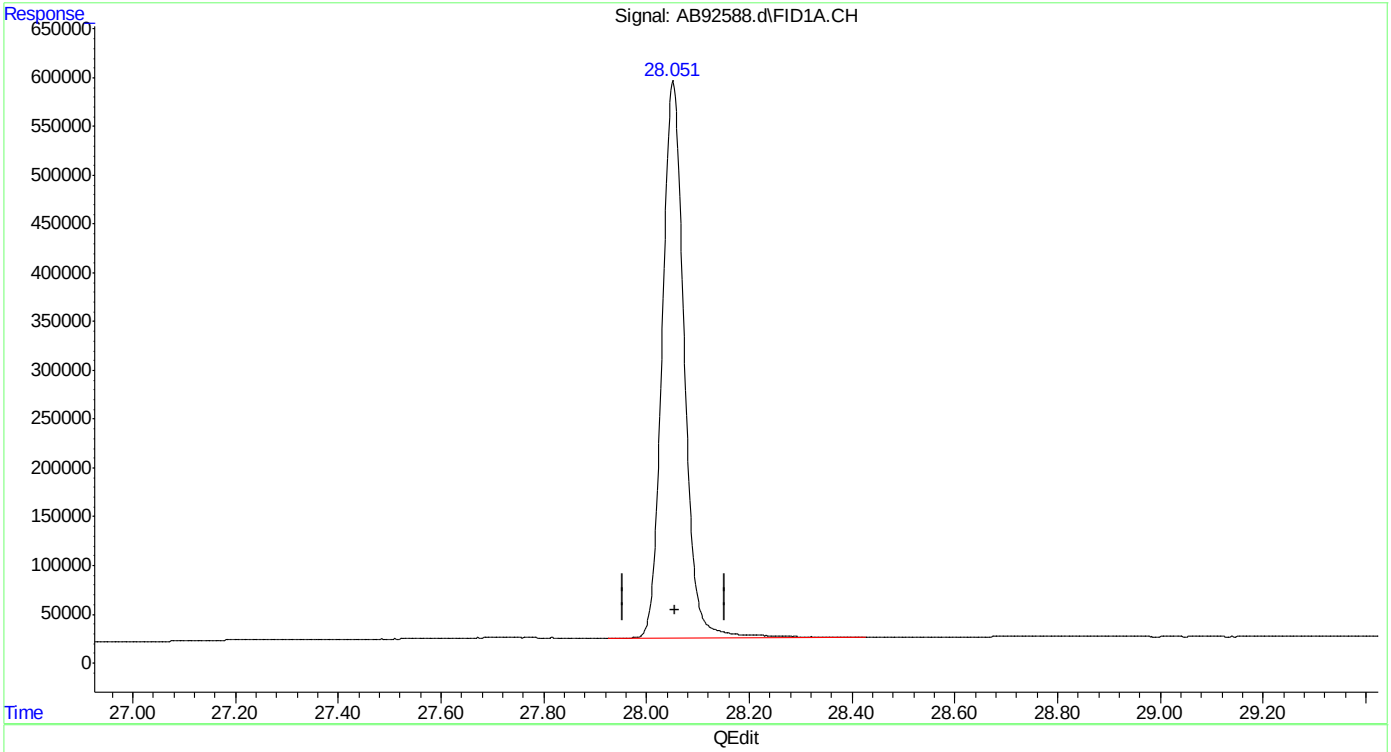
(+) = Expected Retention Time

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

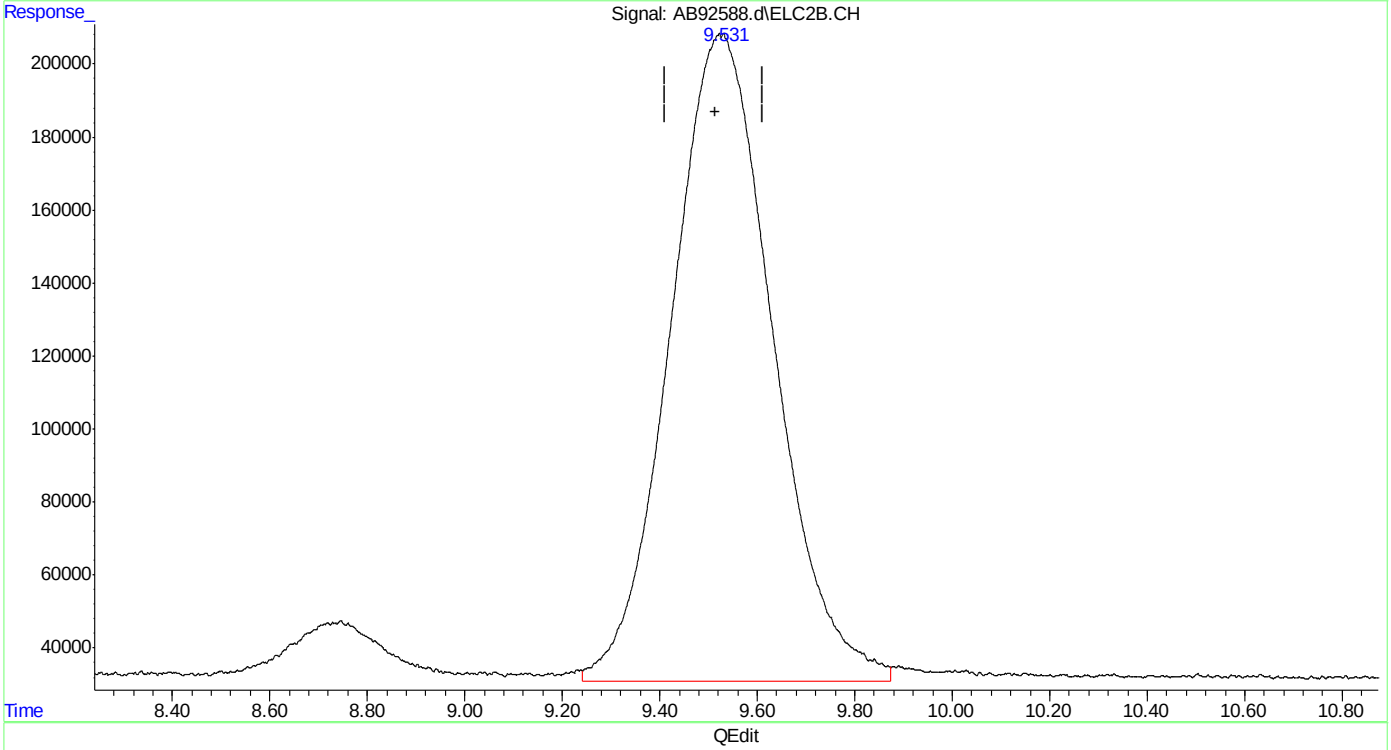
SGS ACCUTEST MC45678

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

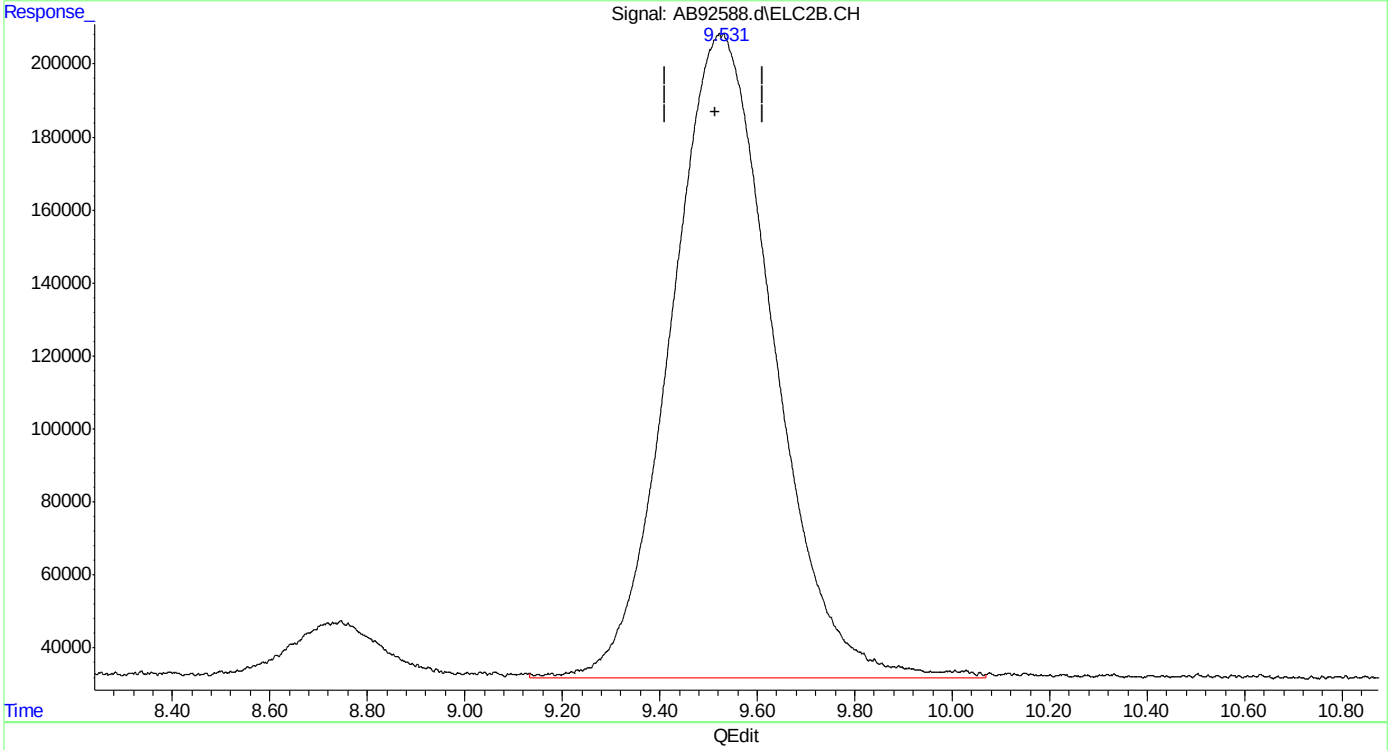
(+) = Expected Retention Time

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

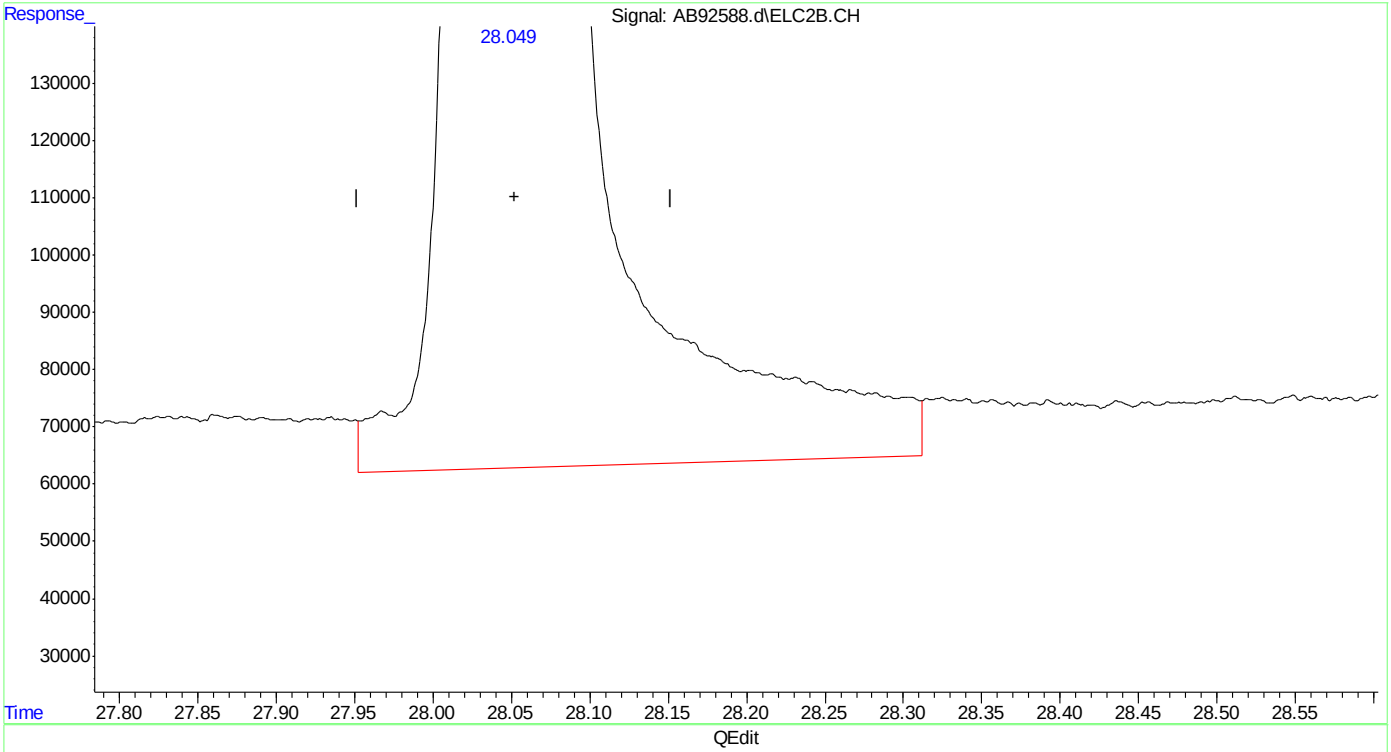
SGS ACCUTEST MC45678

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

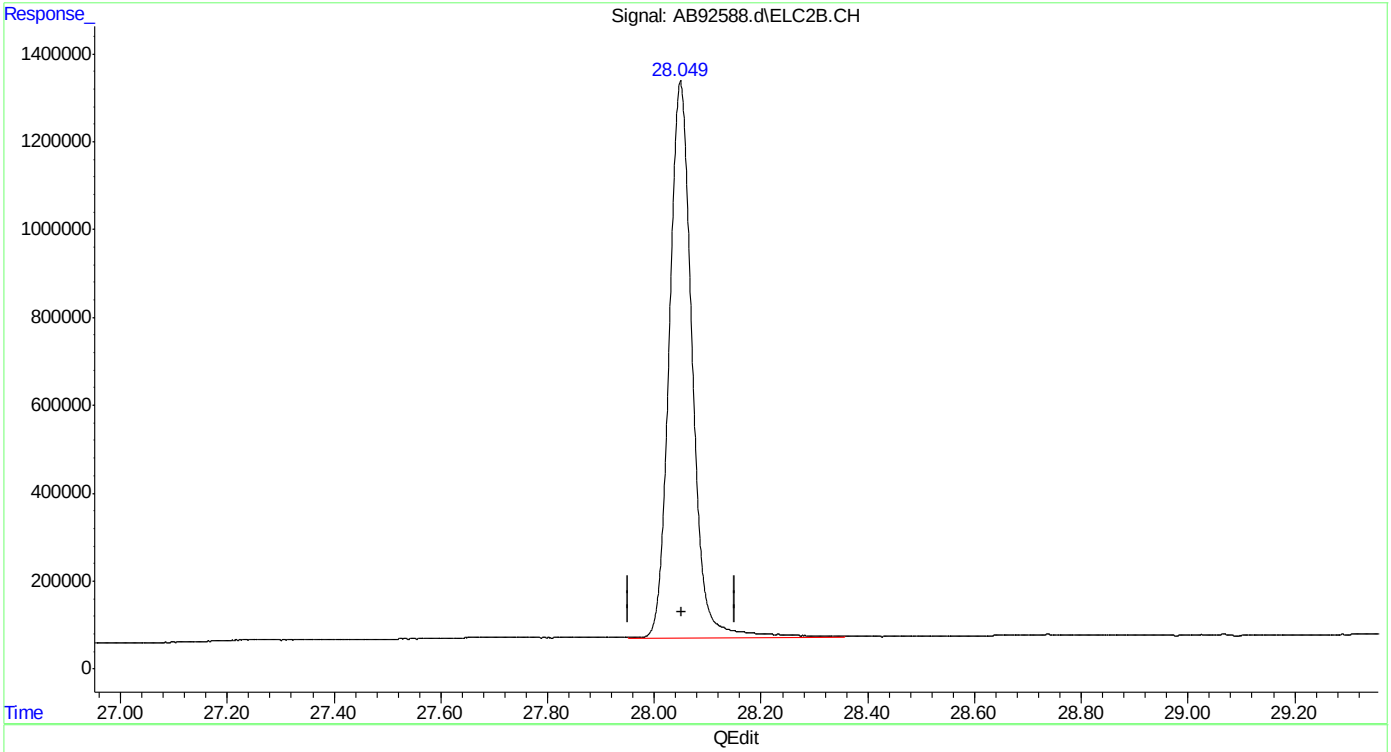
(+) = Expected Retention Time

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

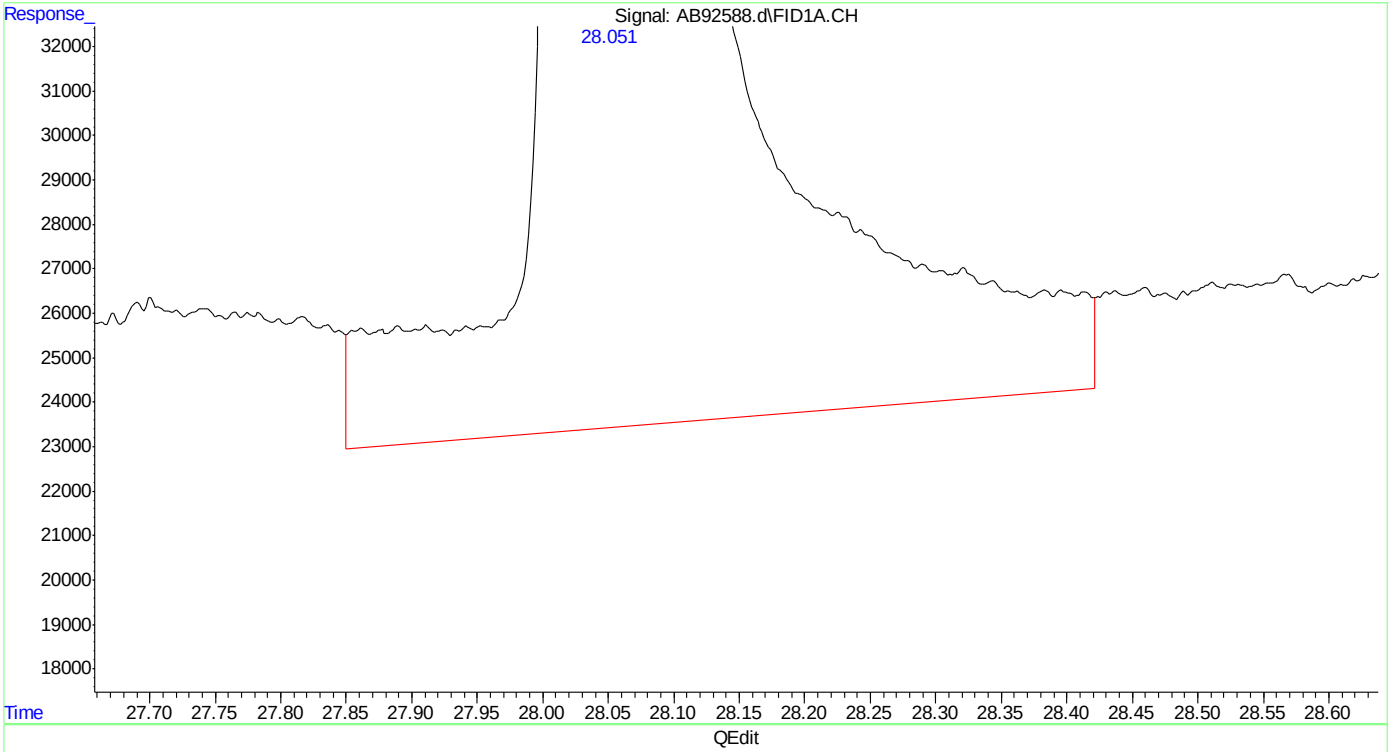
SGS ACCUTEST MC45678

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

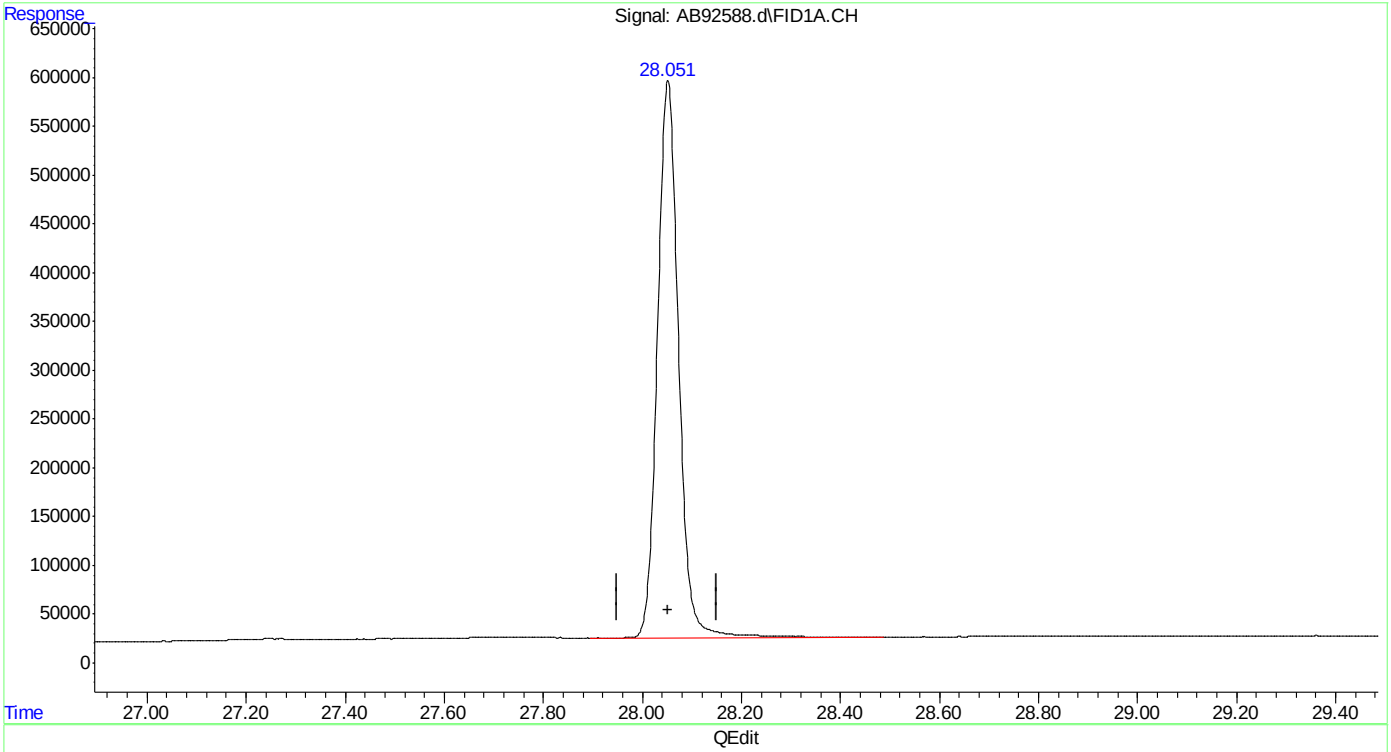
SGS ACCUTEST MC45678

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

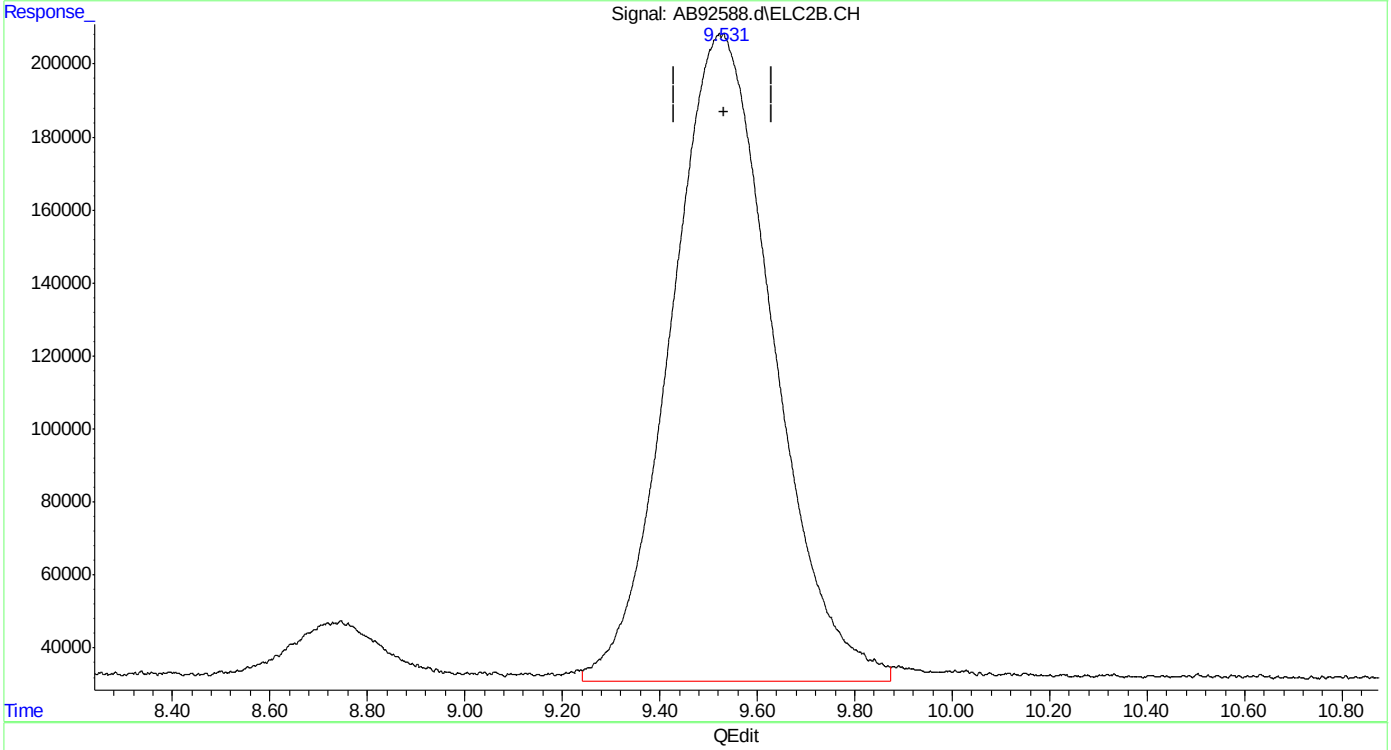
(+) = Expected Retention Time

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

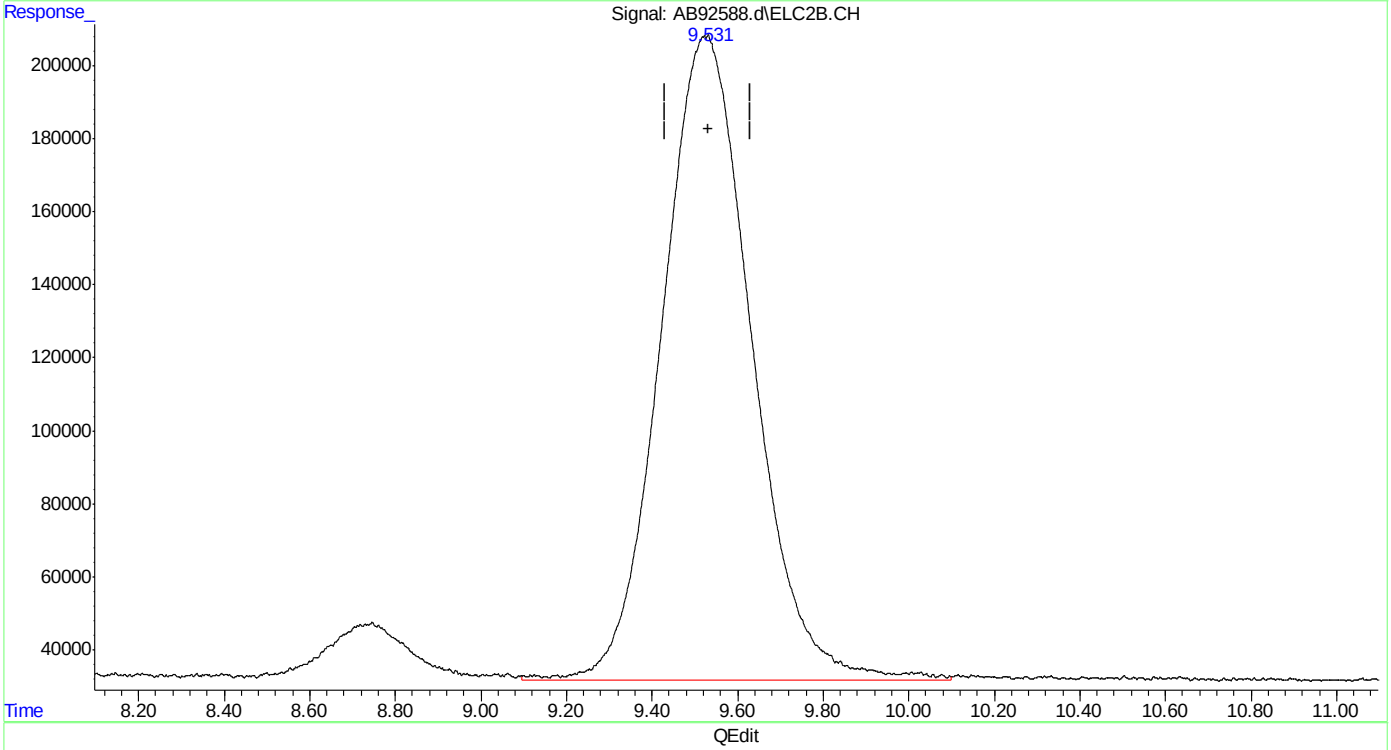
(+) = Expected Retention Time

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

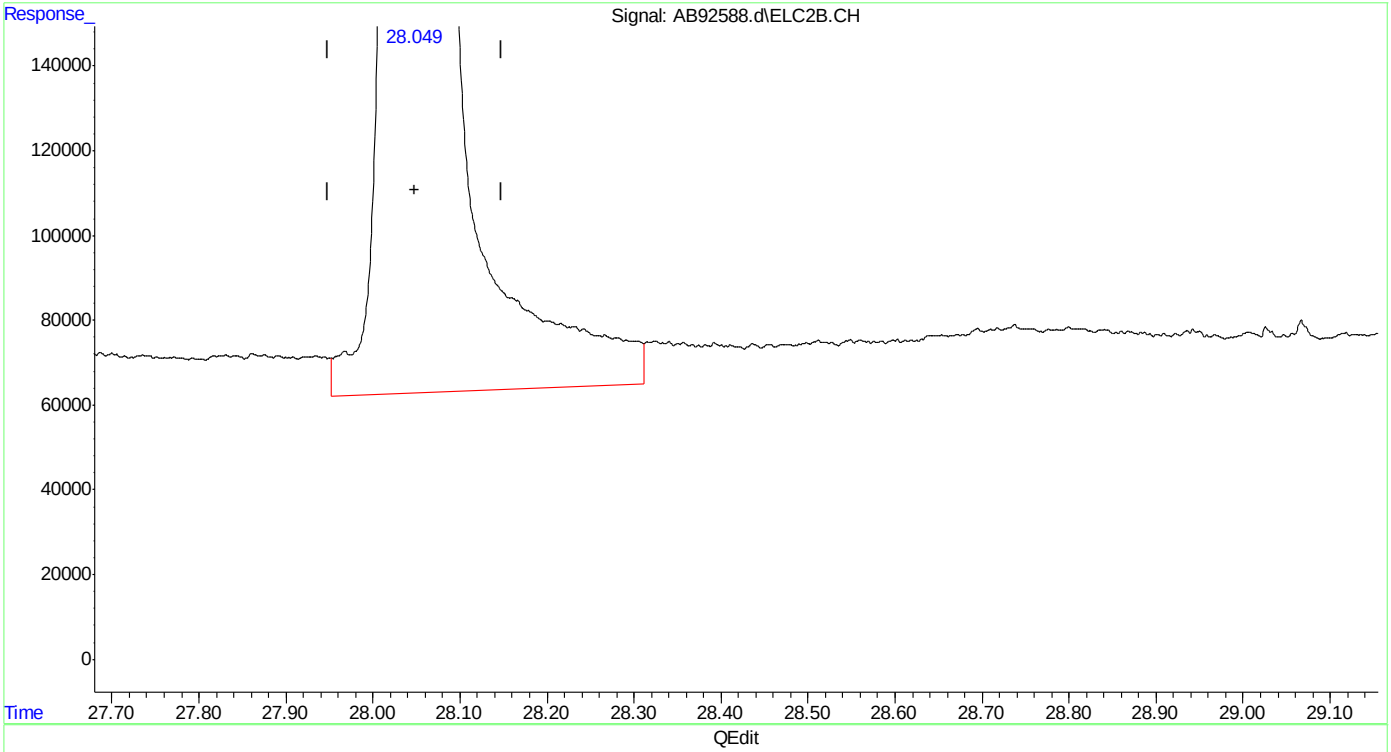
SGS ACCUTEST MC45678

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

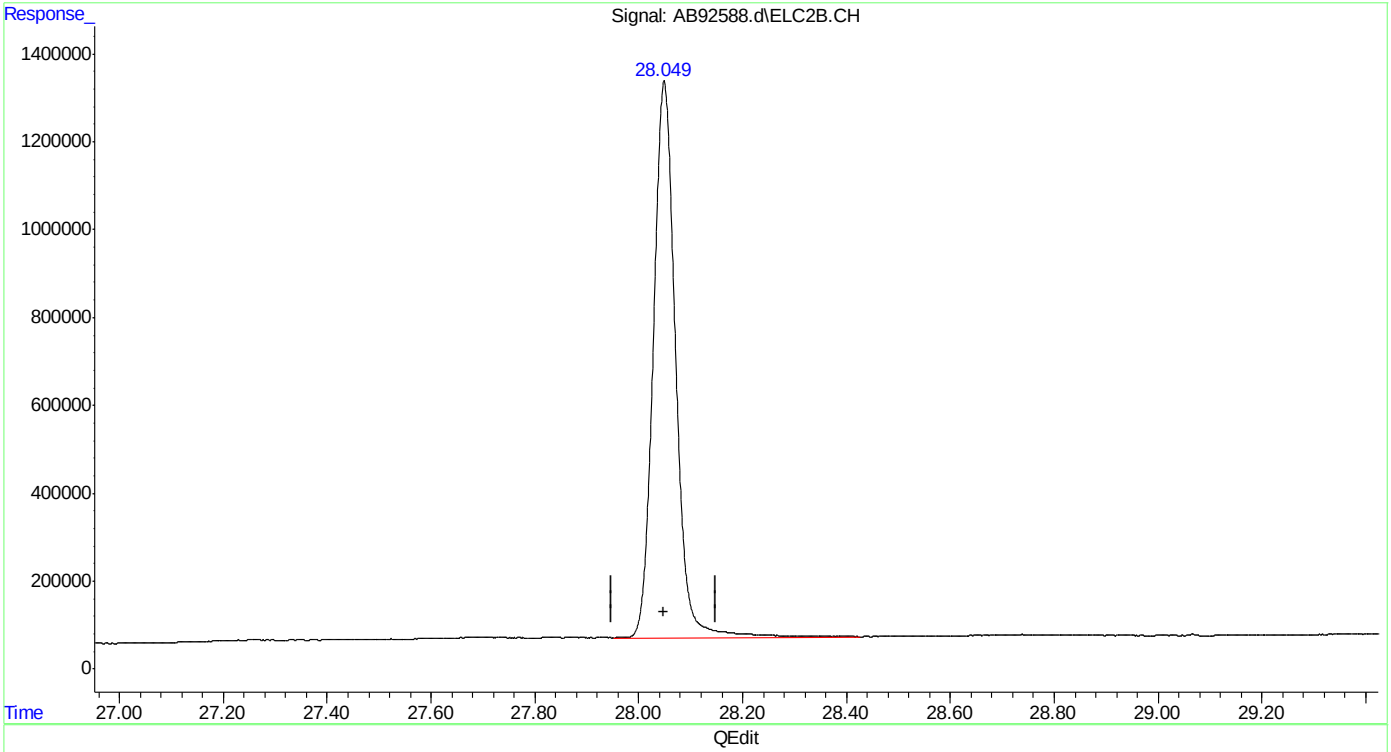
(+) = Expected Retention Time

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.

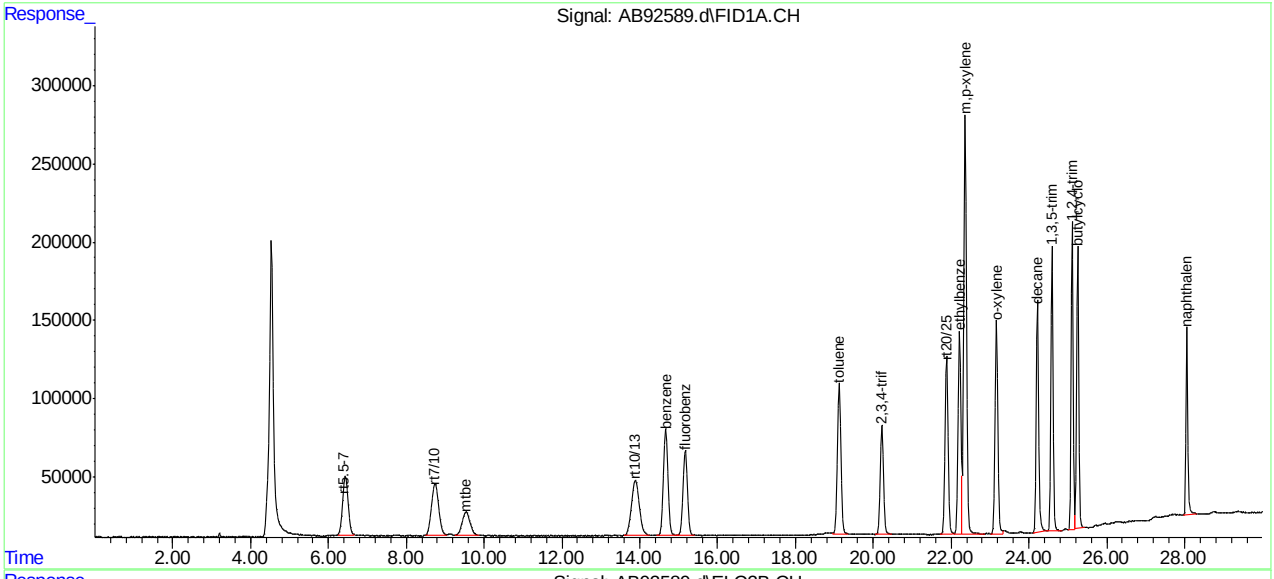
SGS ACCUTEST MC45678

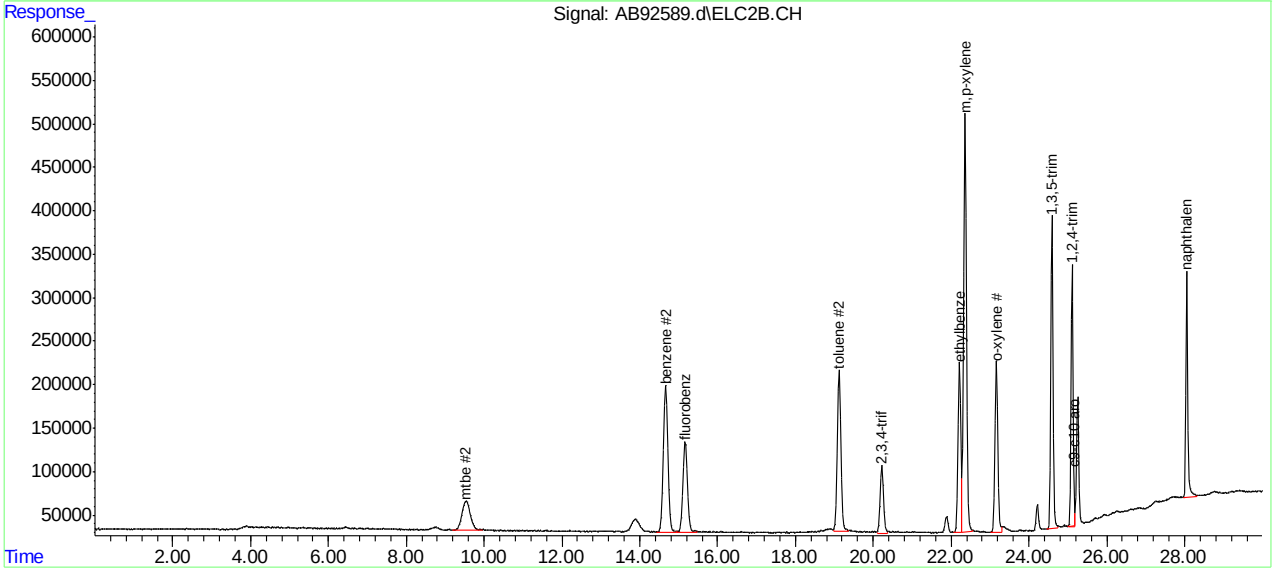
Quantitation Report (QT Reviewed)

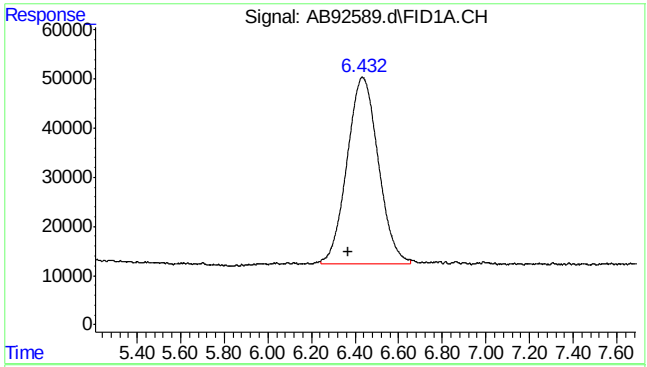
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92589.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 11:33:11
Operator : haleyn
Sample : ic5058-10
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

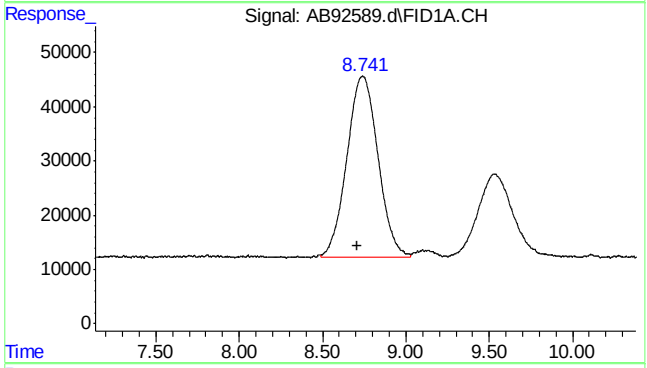






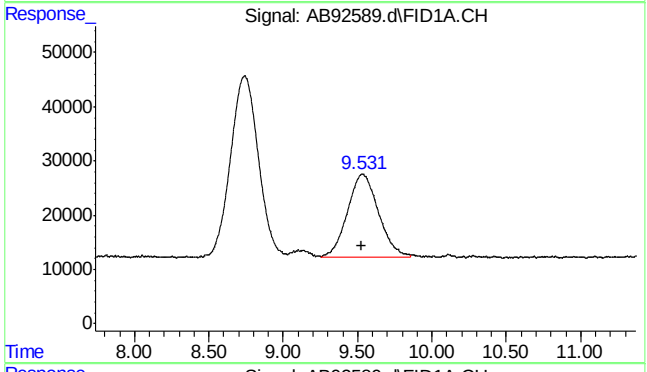
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 3766236
Conc: 10.86 ppb m



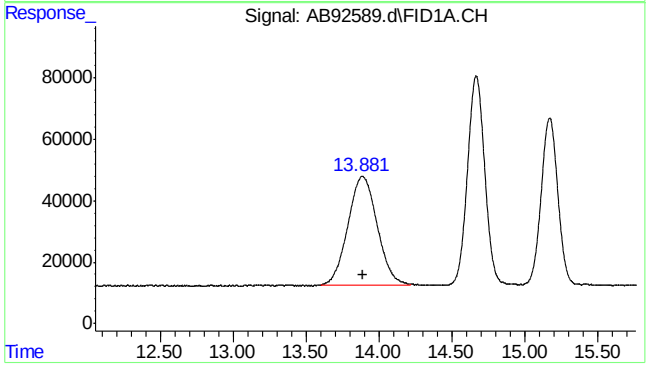
#2 rt7/10

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

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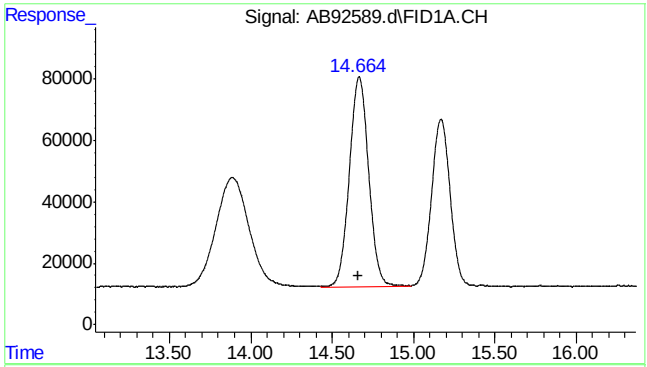
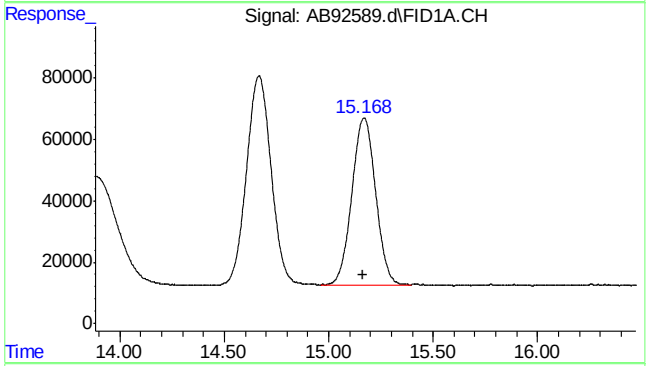


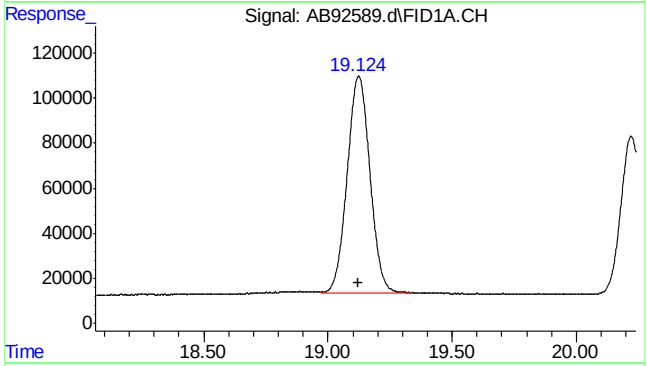
#5 benzene

R.T.: 14.665 min
Delta R.T.: 0.003 min
Response: 5646132
Conc: 10.37 ppb



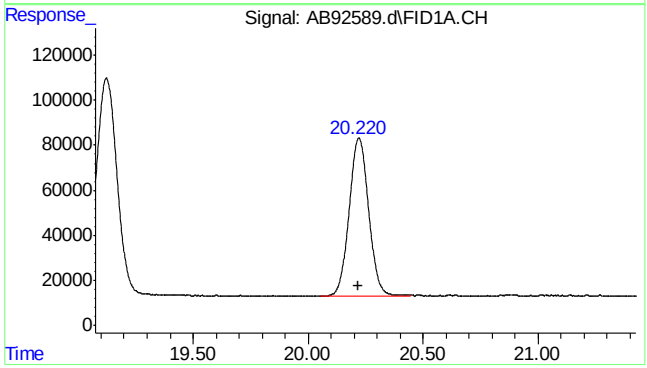
#6 fluorobenzene

R.T.: 15.168 min
Delta R.T.: 0.004 min
Response: 4362458
Conc: 9.86 ppb m



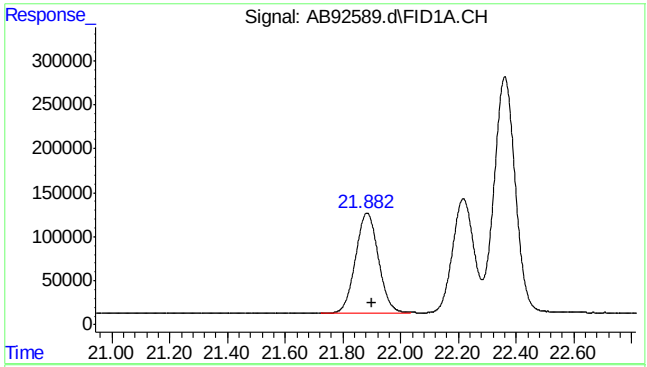
#8 toluene

R.T.: 19.124 min
Delta R.T.: 0.003 min
Response: 6173366
Conc: 10.28 ppb m



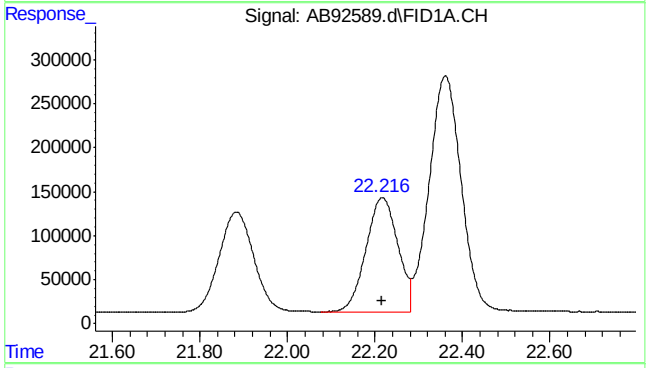
#9 2,3,4-trifluorotoluene

R.T.: 20.220 min
Delta R.T.: 0.003 min
Response: 4158758
Conc: 10.24 ppb m



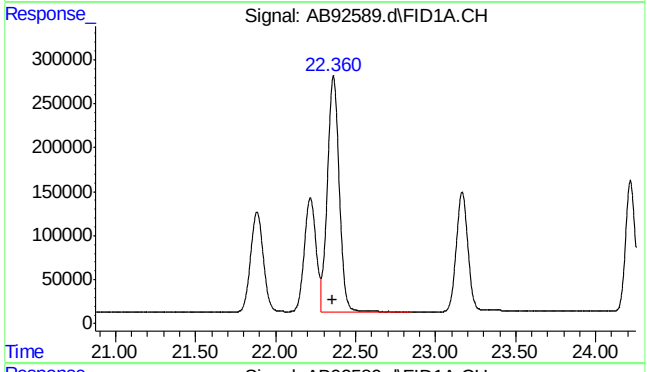
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 6317132
Conc: 11.06 ppb m



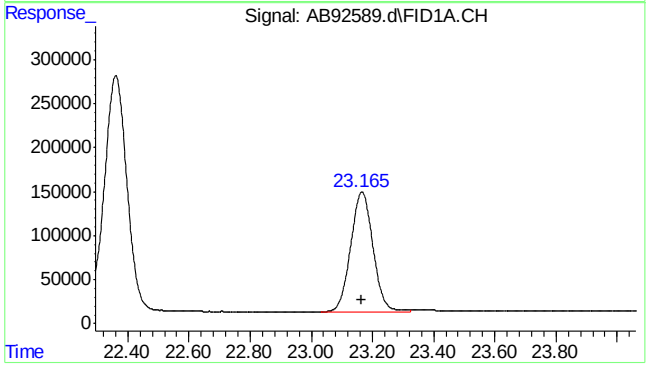
#13 ethylbenzene

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

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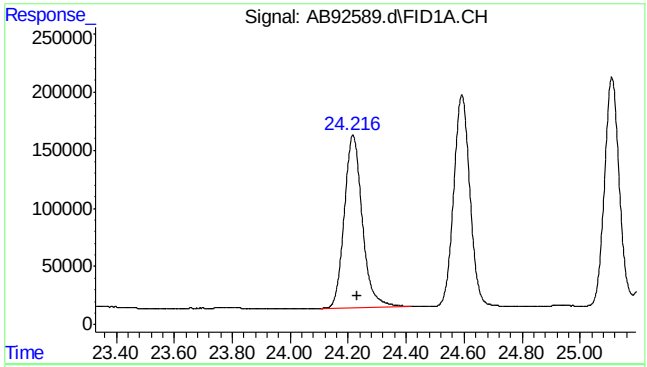
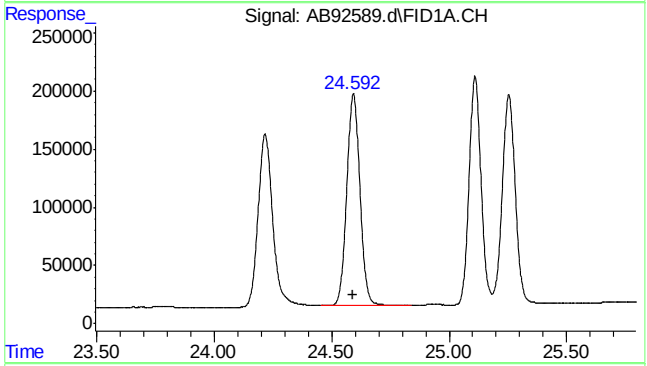


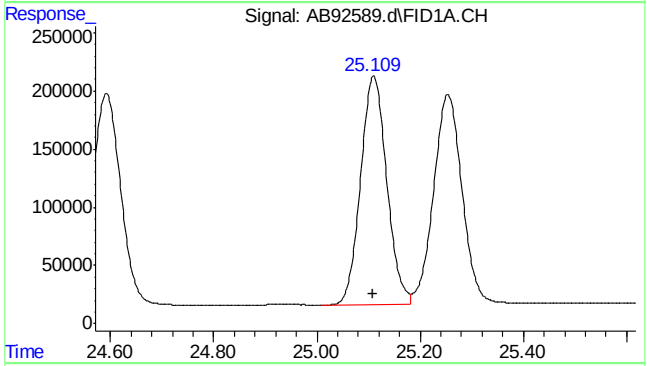
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 6389567
Conc: 10.87 ppb m



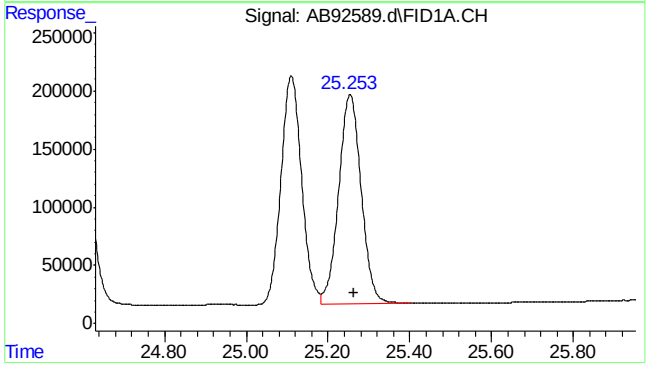
#17 1,3,5-trimethylbenzene

R.T.: 24.592 min
Delta R.T.: 0.001 min
Response: 7137343
Conc: 10.00 ppb m



#18 1,2,4-trimethylbenzene

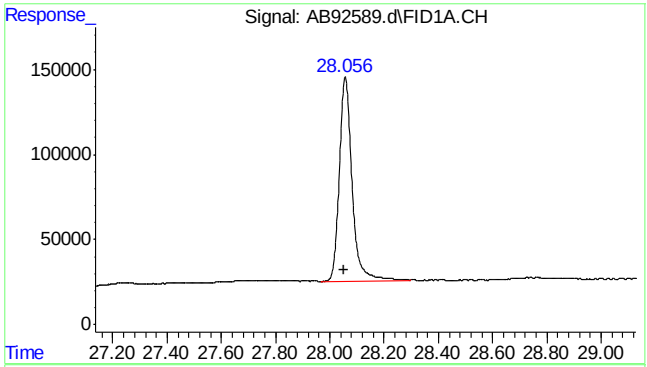
R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 6940844
Conc: 10.48 ppb



#19 butylcyclohexane

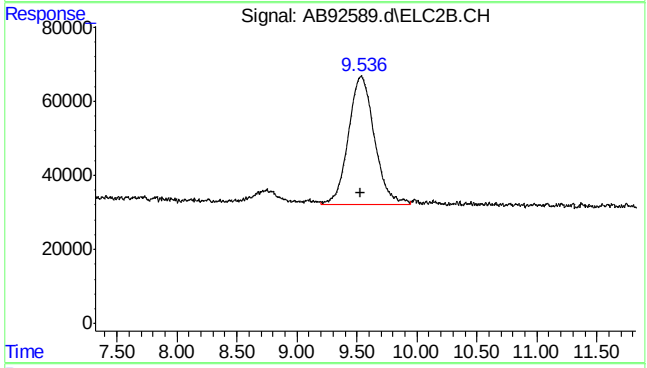
R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 6902750
Conc: 11.14 ppb m

SGS ACCUTEST MC45678



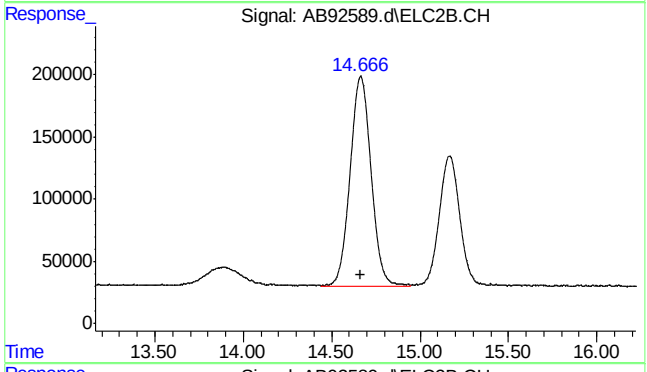
#20 naphthalene

R.T.: 28.056 min
Delta R.T.: 0.005 min
Response: 3925512
Conc: 11.50 ppb m



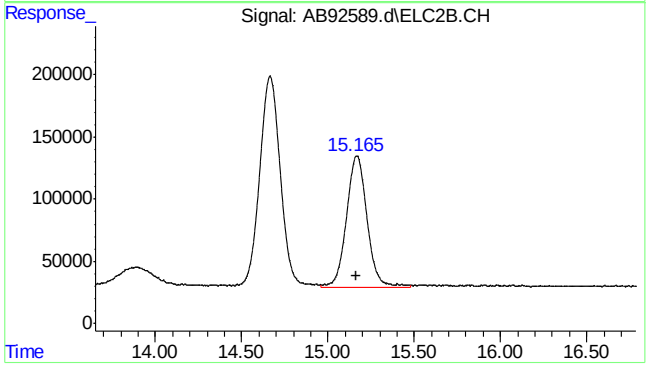
#23 mtbe #2

R.T.: 9.536 min
Delta R.T.: 0.005 min
Response: 5190787
Conc: 10.04 ppb m



#24 benzene #2

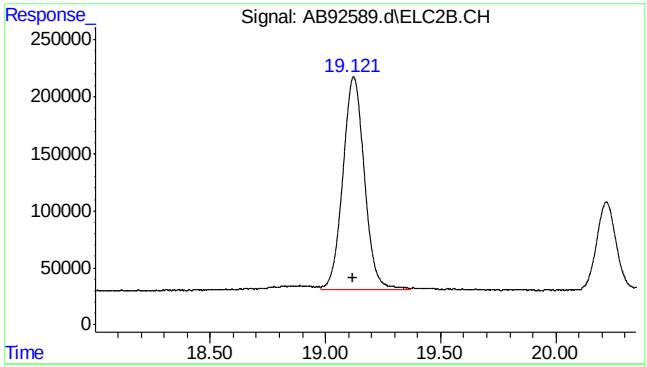
R.T.: 14.666 min
Delta R.T.: 0.004 min
Response: 13970184
Conc: 9.93 ppb m



#25 fluorobenzene #2

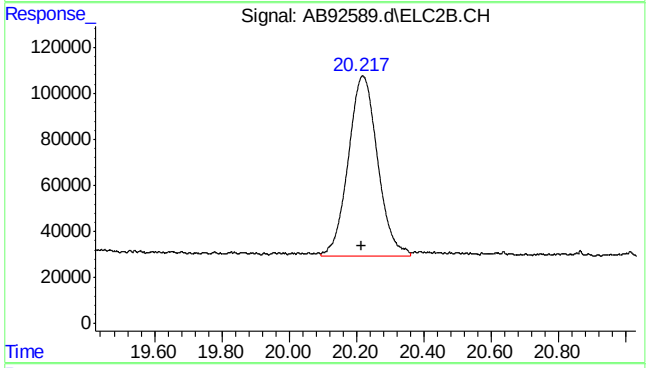
R.T.: 15.165 min
Delta R.T.: 0.004 min
Response: 8690415
Conc: 9.69 ppb m

SGS ACCUTEST MC45678



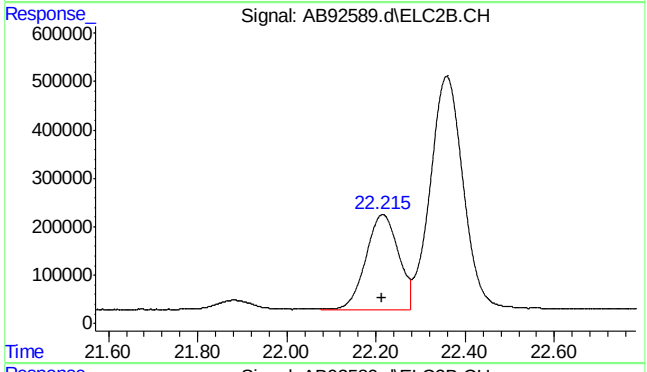
#26 toluene #2

R.T.: 19.121 min
Delta R.T.: 0.002 min
Response: 12172198
Conc: 10.07 ppb m



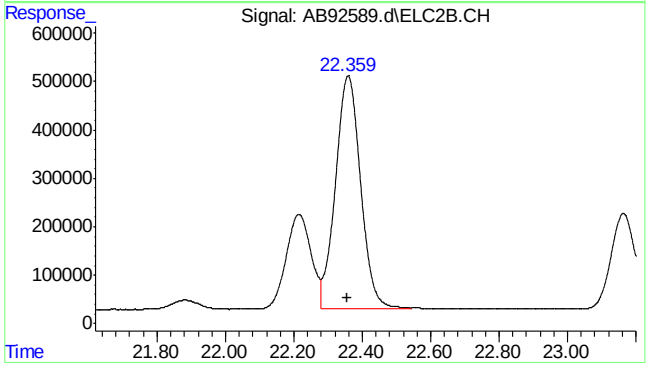
#27 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: 0.002 min
Response: 4721681
Conc: 10.01 ppb



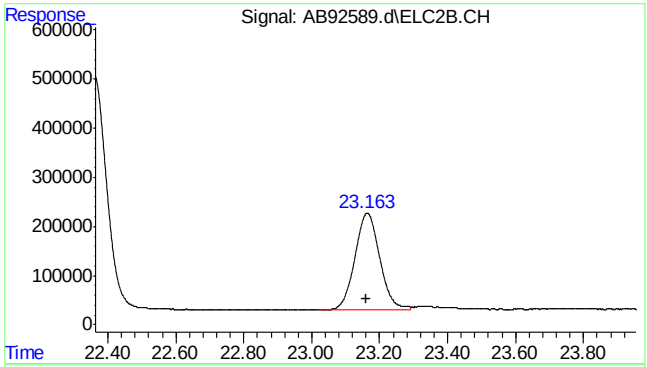
#28 ethylbenzene #2

R.T.: 22.215 min
Delta R.T.: 0.003 min
Response: 9984696
Conc: 10.00 ppb m



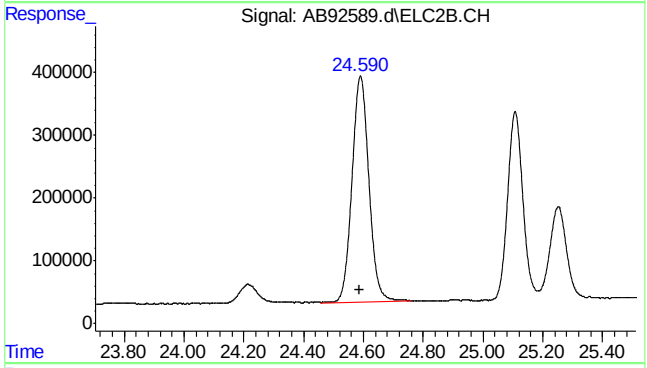
#29 m,p-xylene #2

R.T.: 22.358 min
Delta R.T.: 0.003 min
Response: 24640906
Conc: 20.41 ppb



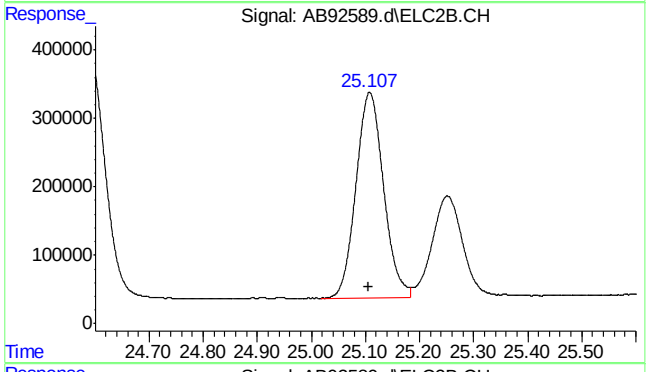
#30 o-xylene #2

R.T.: 23.163 min
Delta R.T.: 0.001 min
Response: 10078357
Conc: 9.94 ppb m



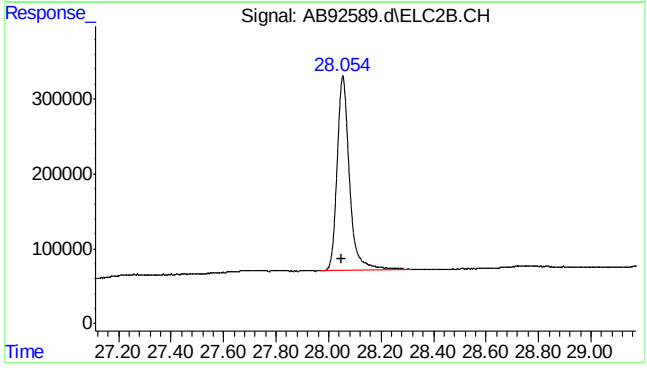
#31 1,3,5-trimethylbenzene #2

R.T.: 24.590 min
Delta R.T.: 0.002 min
Response: 14168908
Conc: 9.70 ppb



#32 1,2,4-trimethylbenzene #2

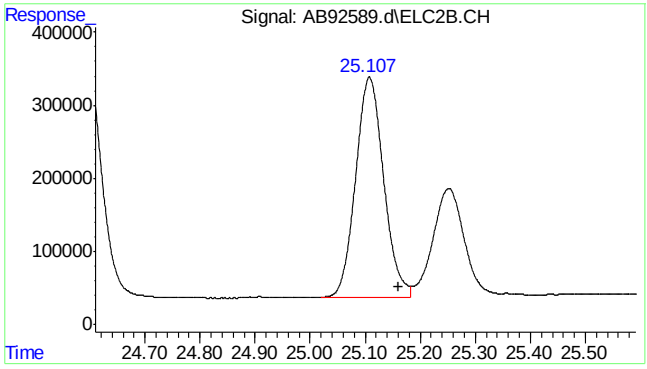
R.T.: 25.108 min
Delta R.T.: 0.003 min
Response: 10650588
Conc: 10.18 ppb



#33 naphthalene #2

R.T.: 28.054 min
Delta R.T.: 0.005 min
Response: 8606987
Conc: 11.42 ppb m

SGS ACCUTEST MC45678




```
#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

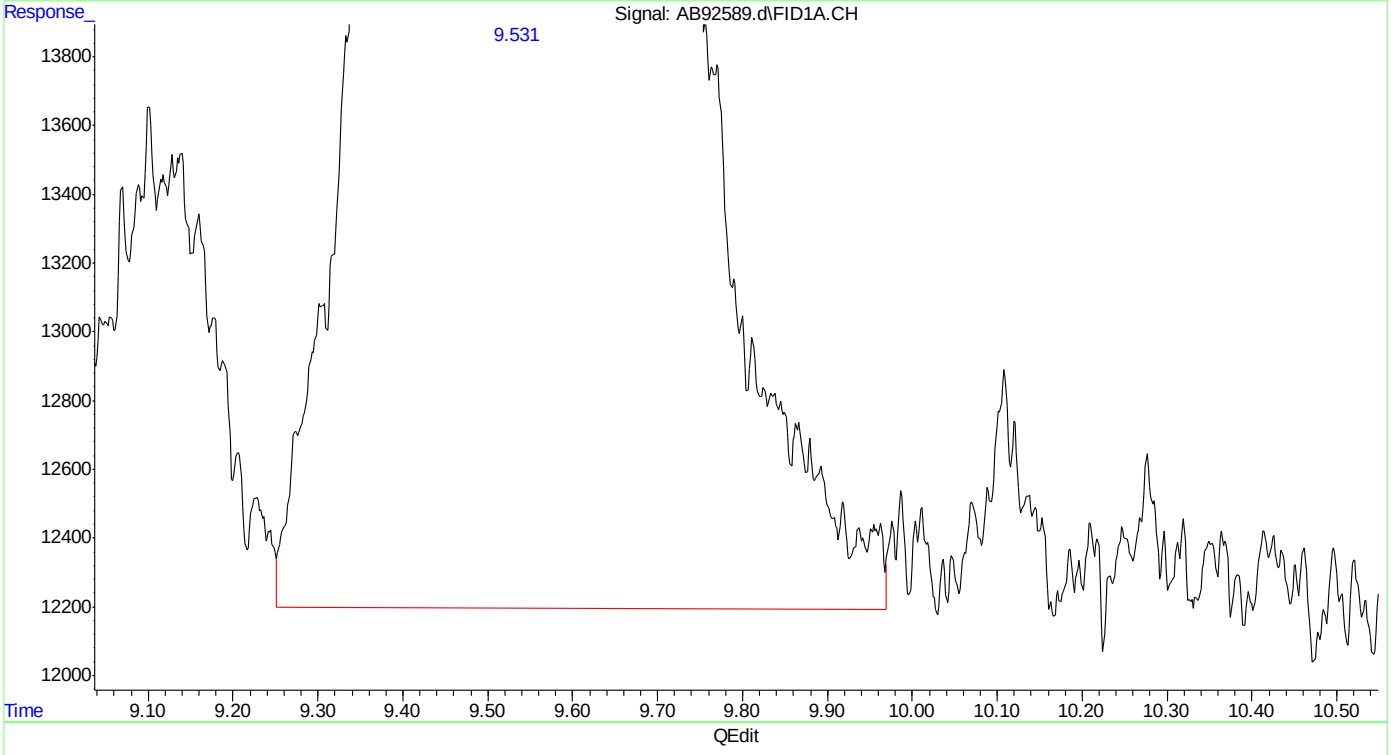
7

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

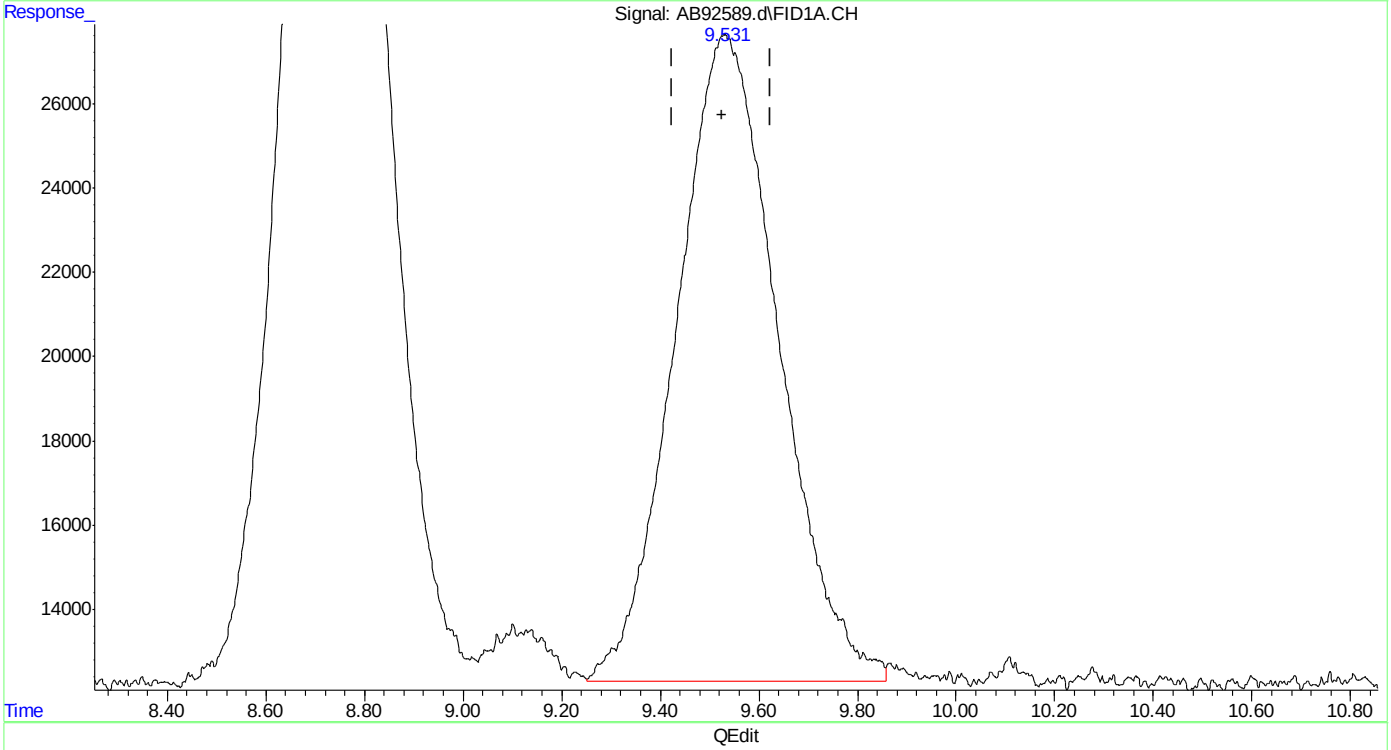
SGS ACCUTEST MC45678

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

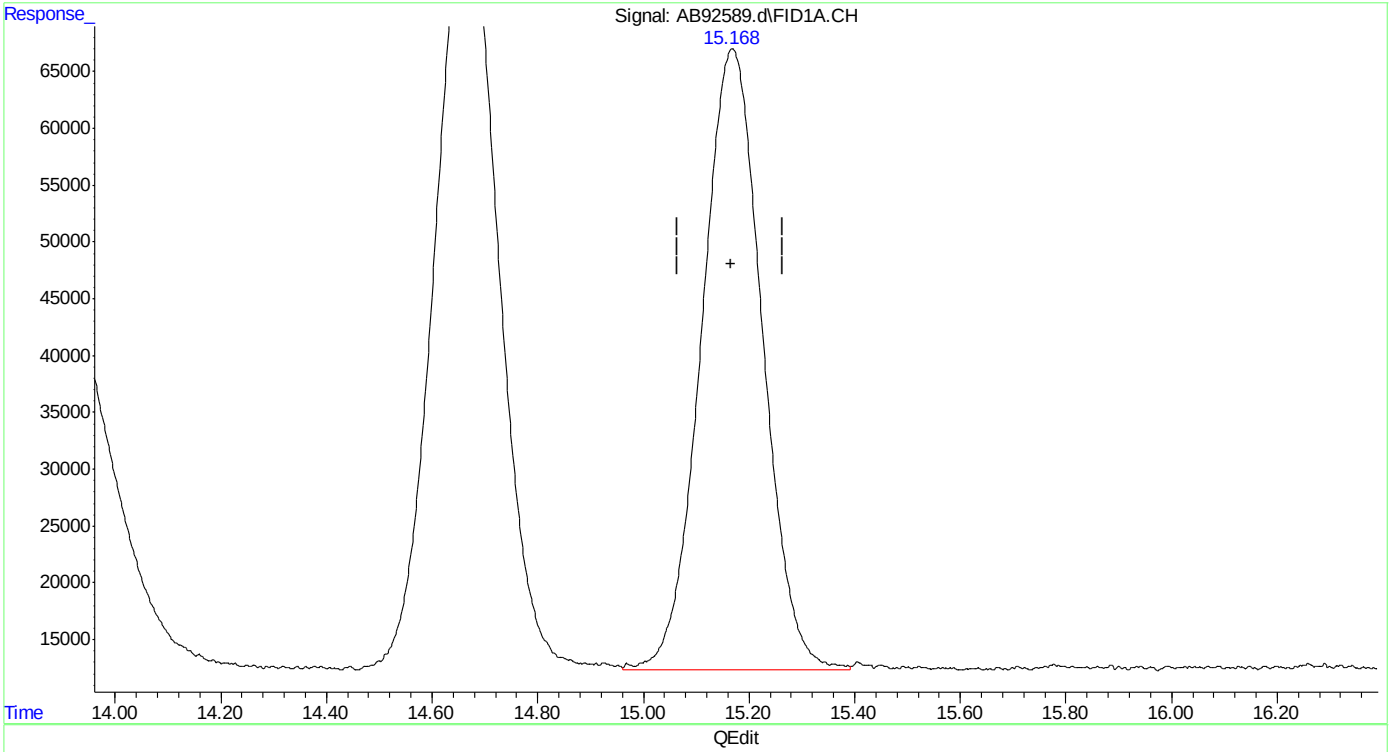
(+) = Expected Retention Time

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

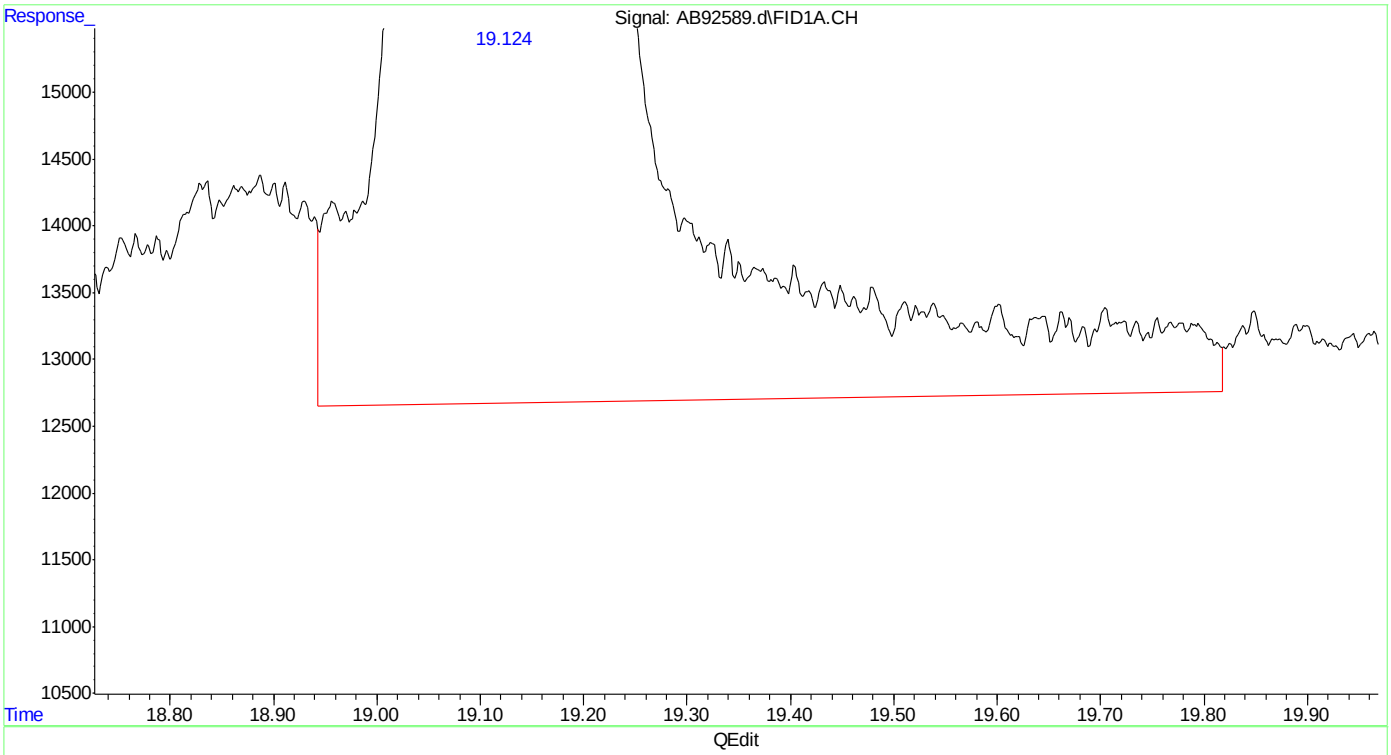
(+) = Expected Retention Time

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

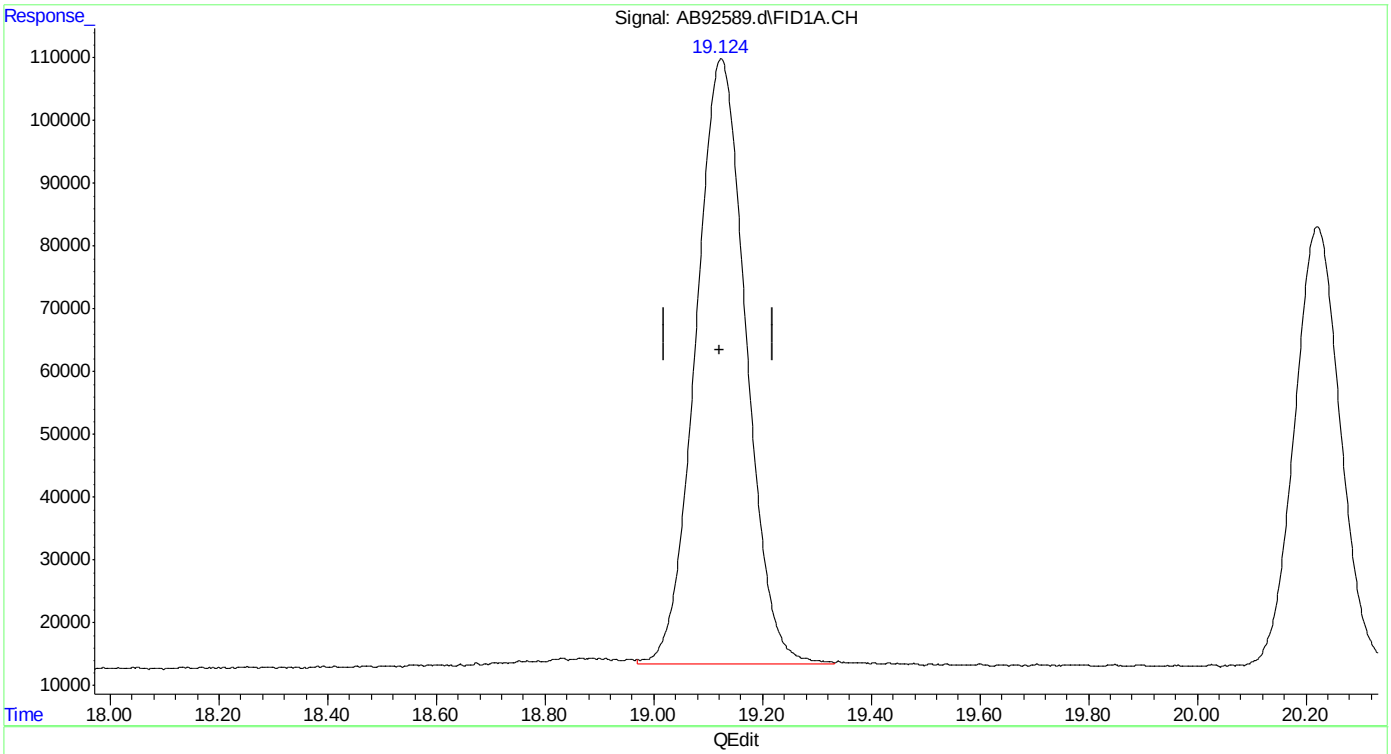
SGS ACCUTEST MC45678

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 MC45678

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

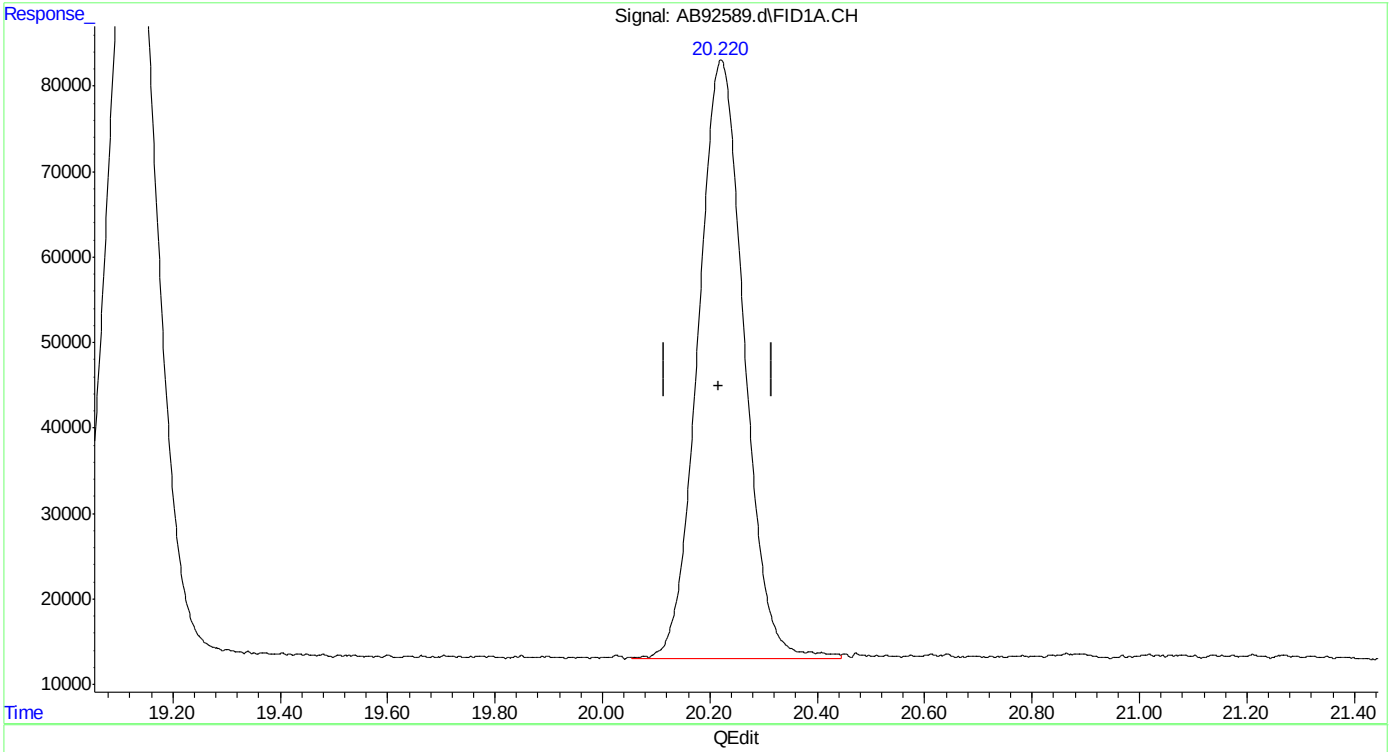
SGS ACCUTEST MC45678

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

ab160112vphmaster.M Tue Jan 12 12:07:31 2016

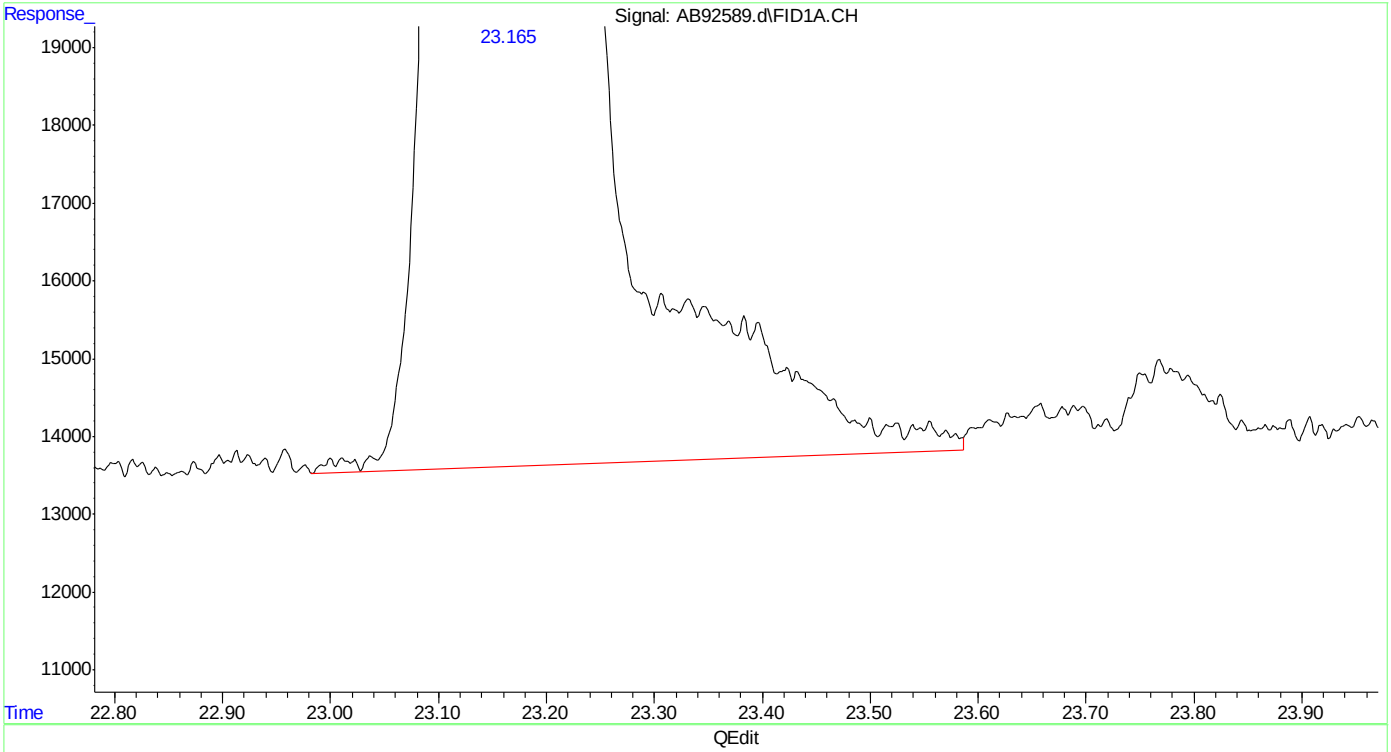
SGS ACCUTEST MC45678

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

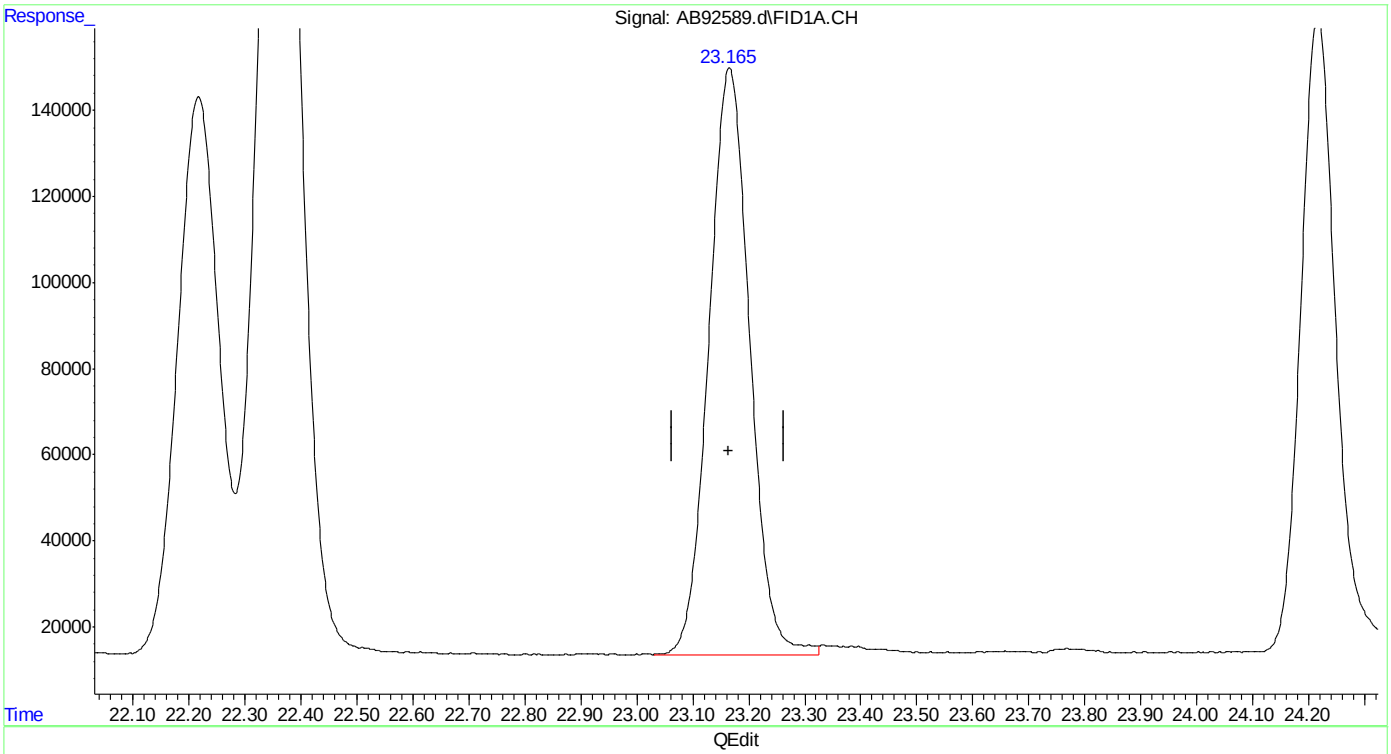
SGS ACCUTEST MC45678

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

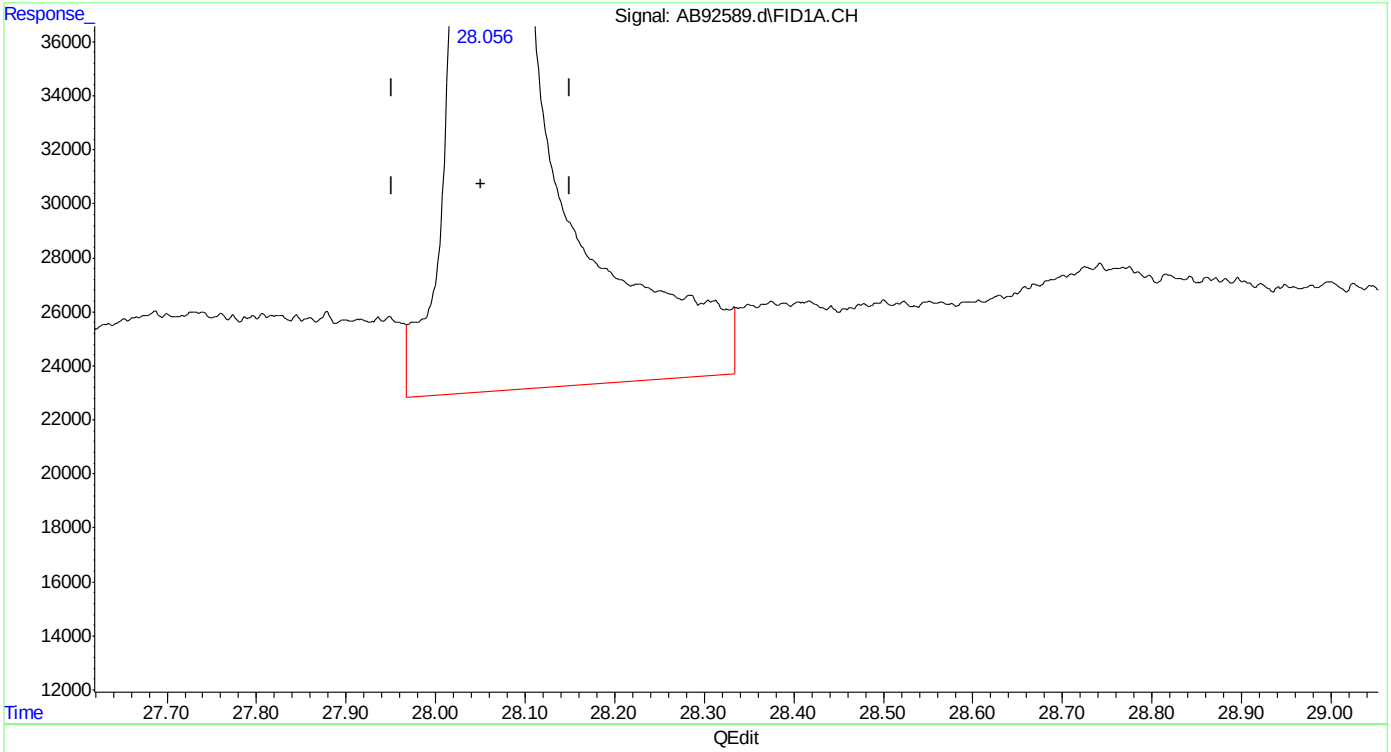
(+) = Expected Retention Time

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

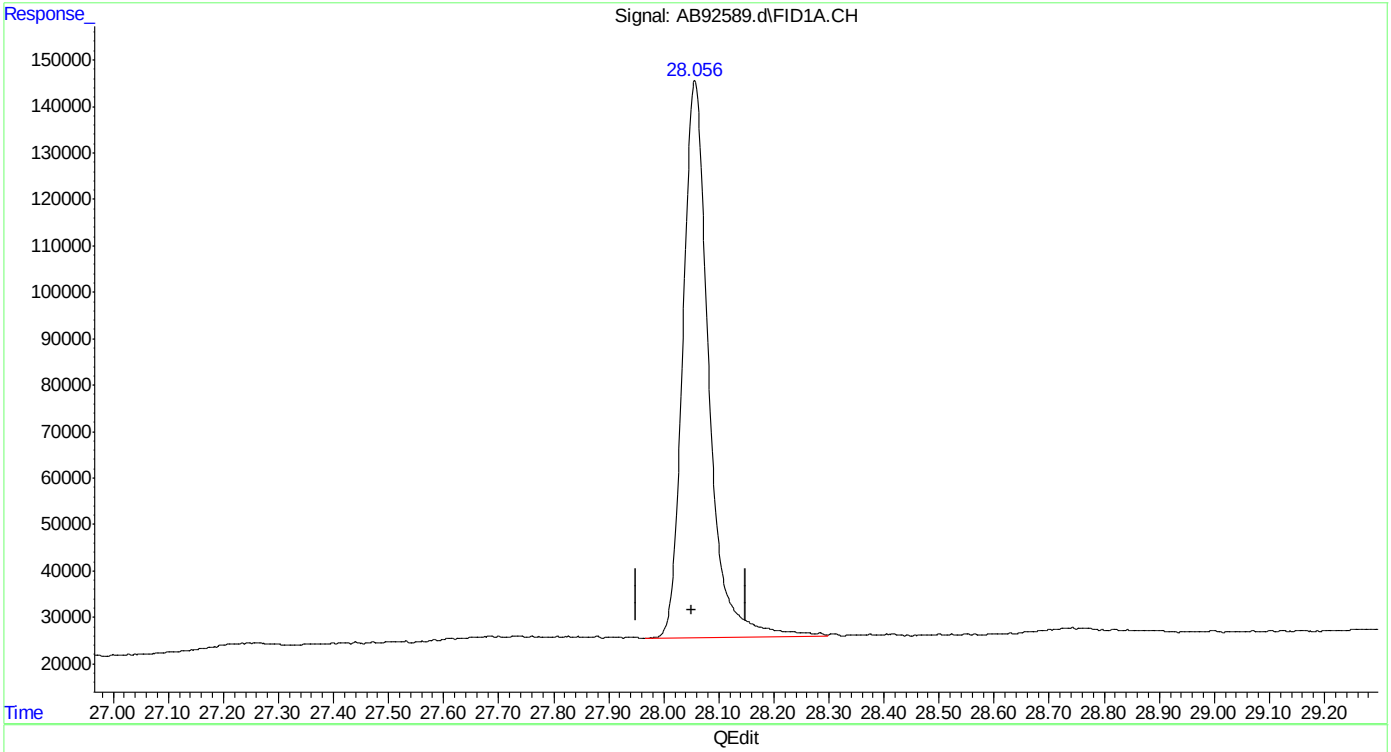
ab160112vphmaster.M Tue Jan 12 12:09:48 2016 Page: 1

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 :



(20) naphthalene
28.056min 11.504 ppb m
response 3925512

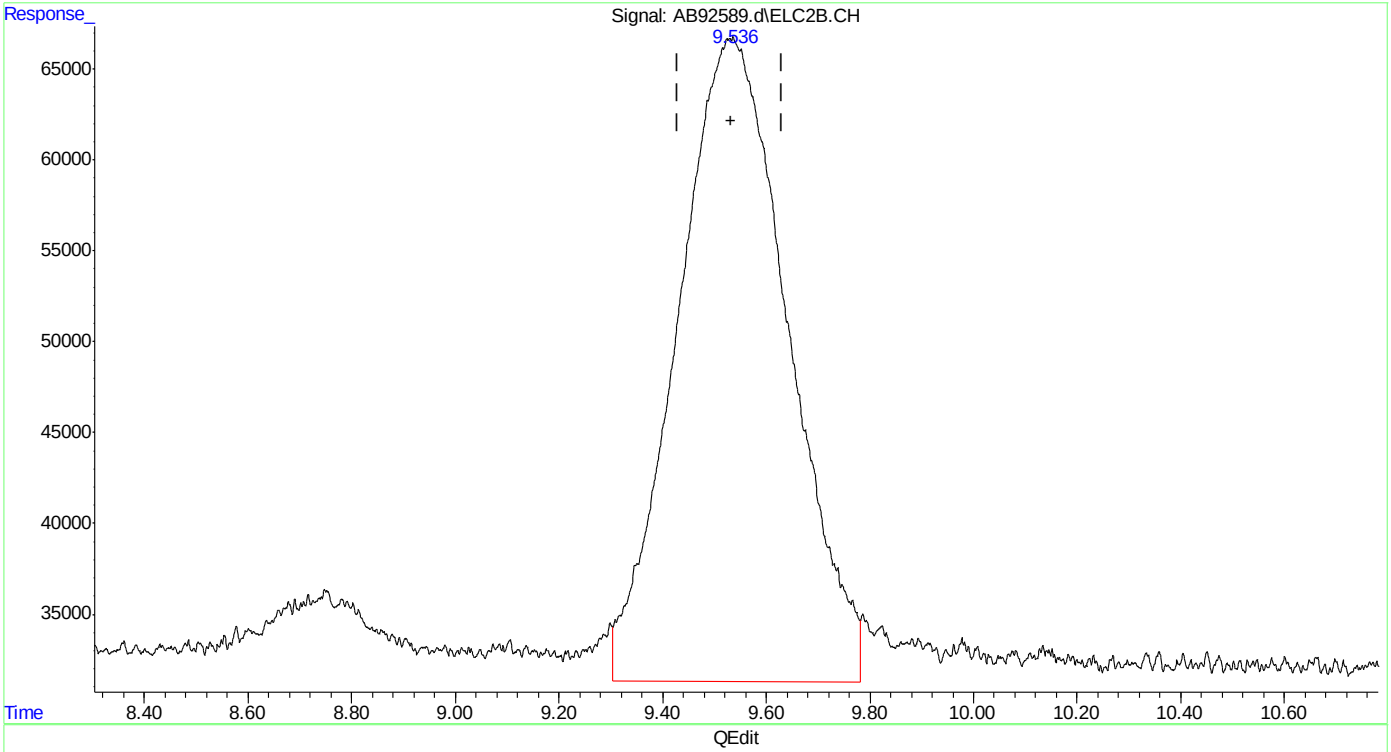
(+) = Expected Retention Time

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

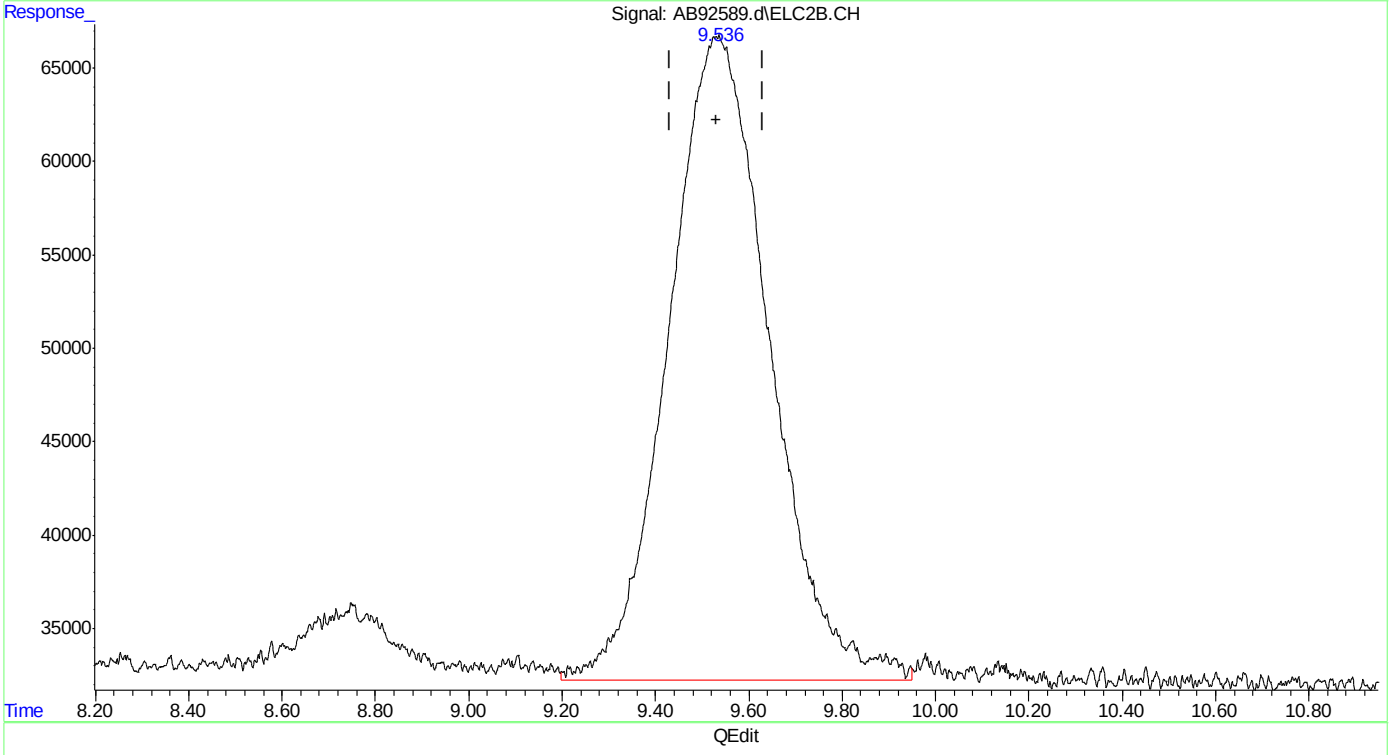
SGS ACCUTEST MC45678

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

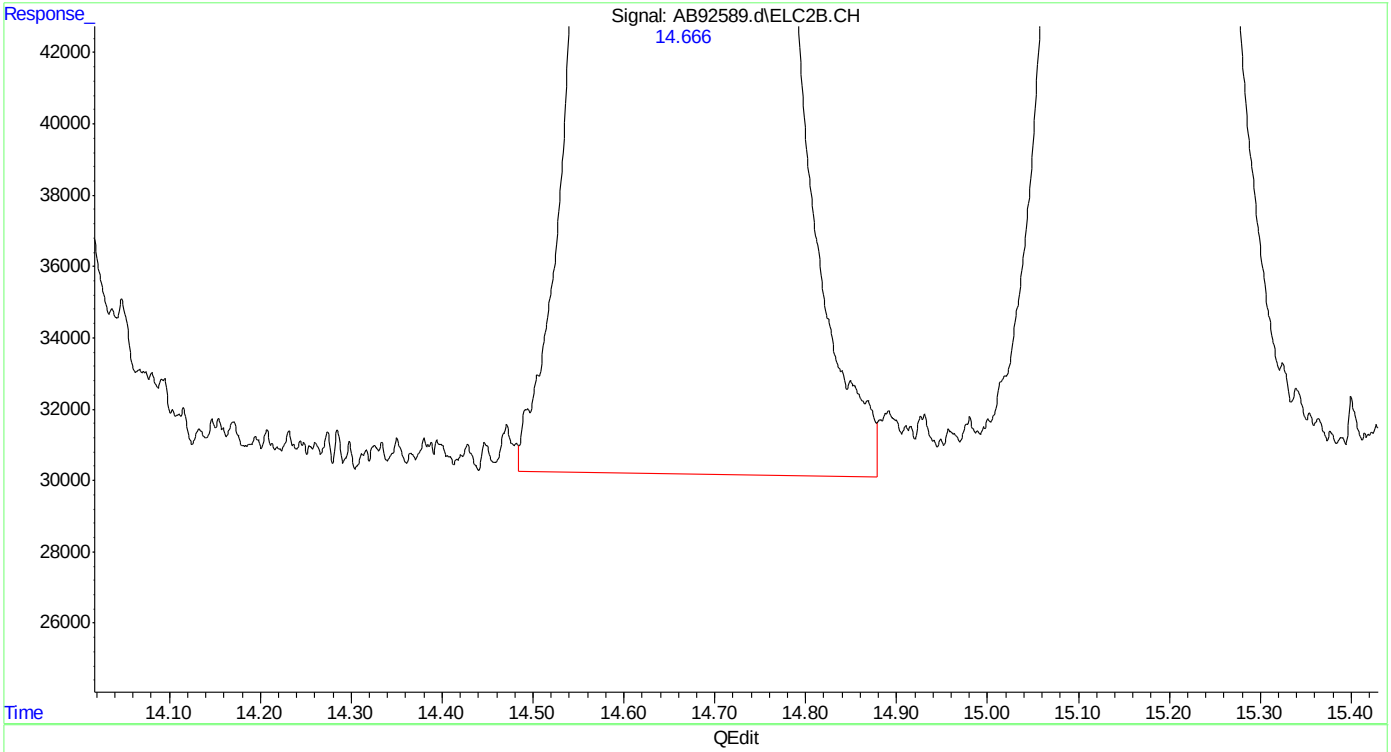
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:28 2016

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
14.665min 9.853 ppb
response 13860278

(+) = Expected Retention Time

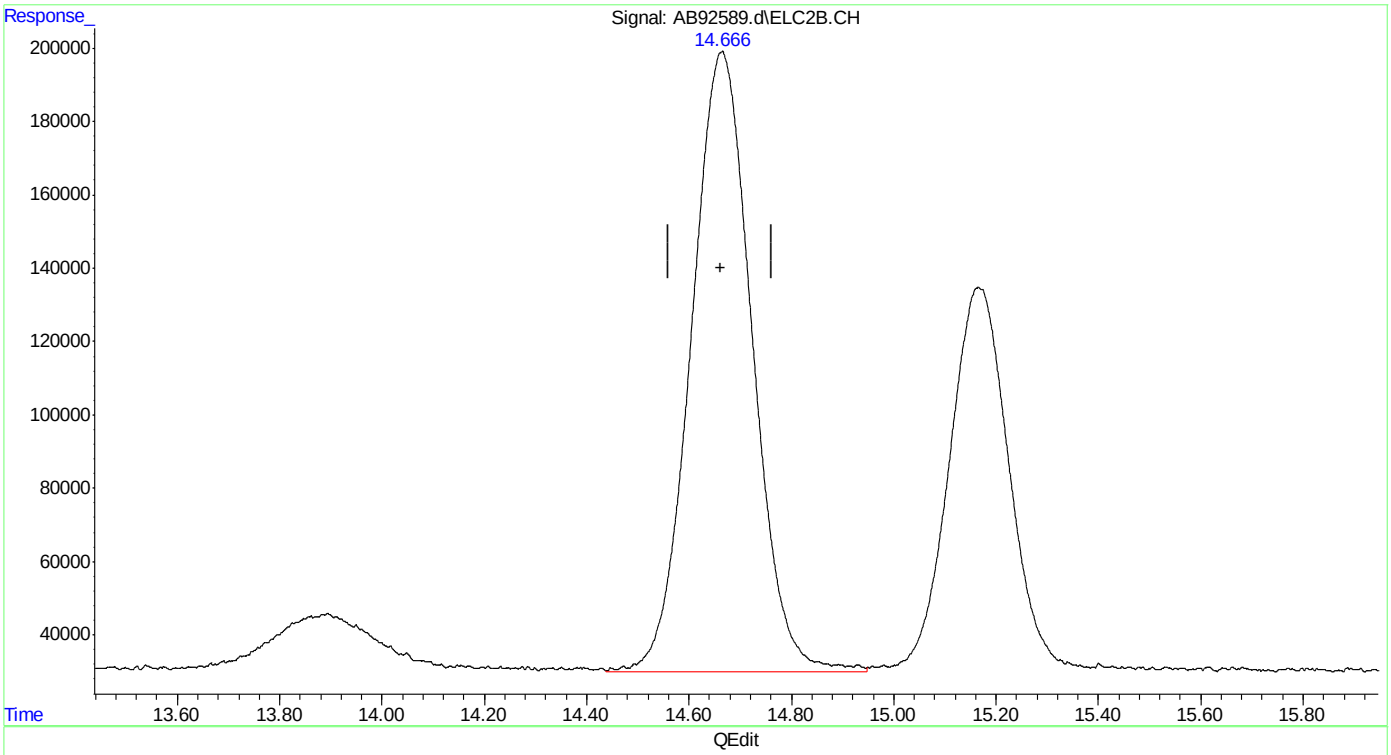
SGS ACCUTEST MC45678

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

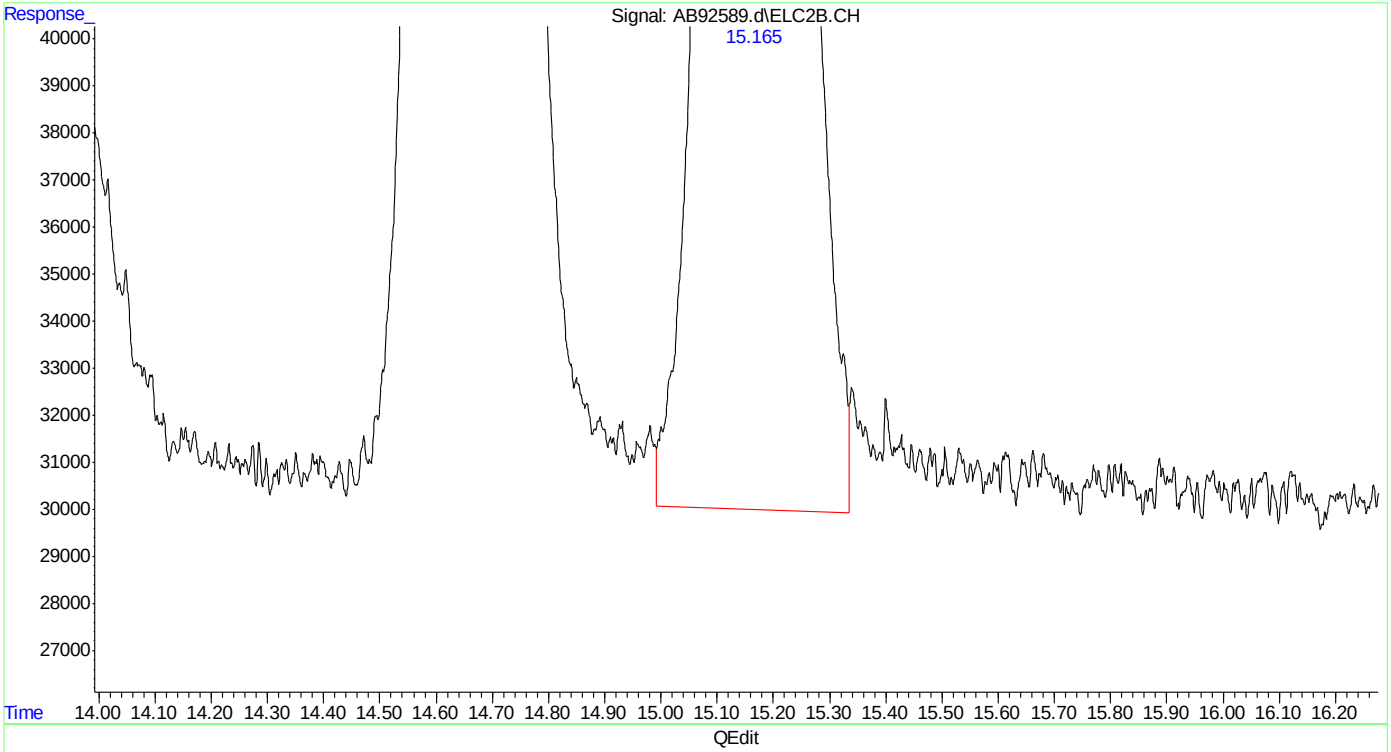
SGS ACCUTEST MC45678

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

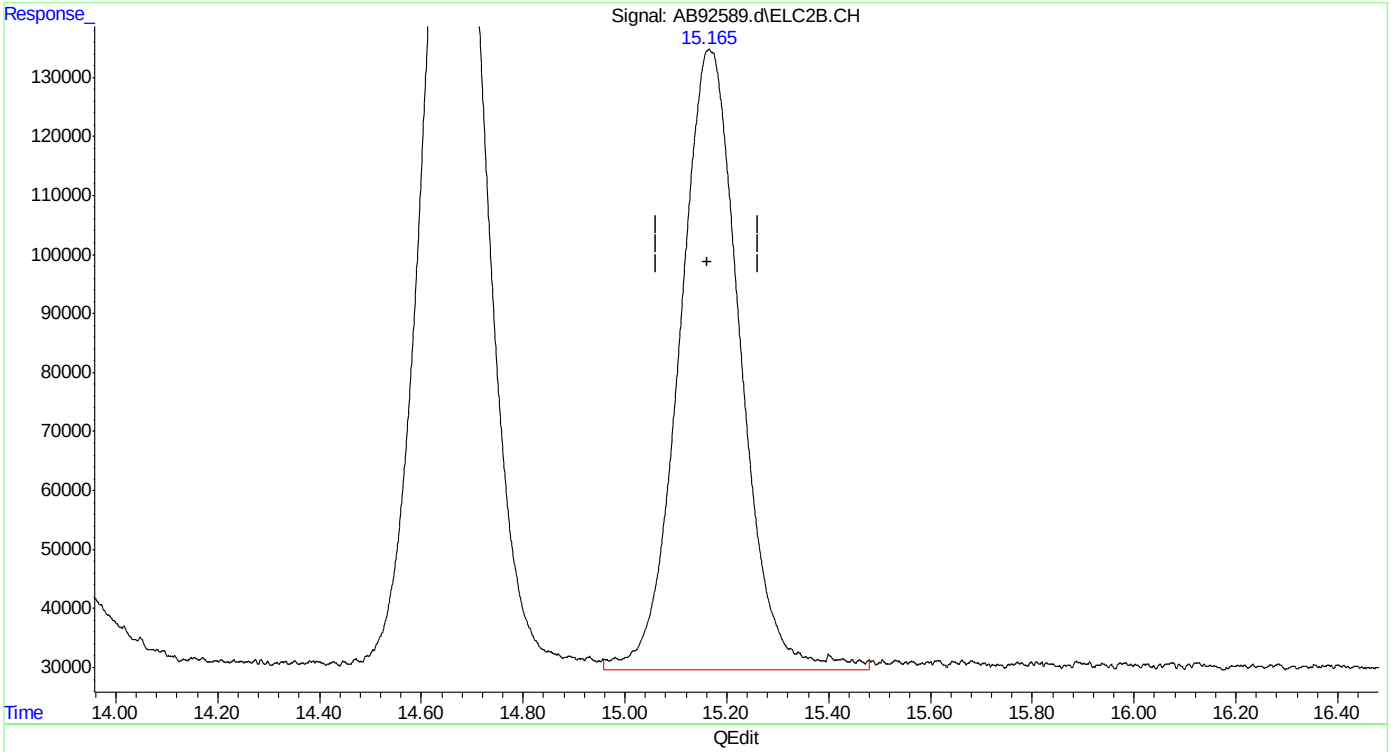
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:00 2016

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

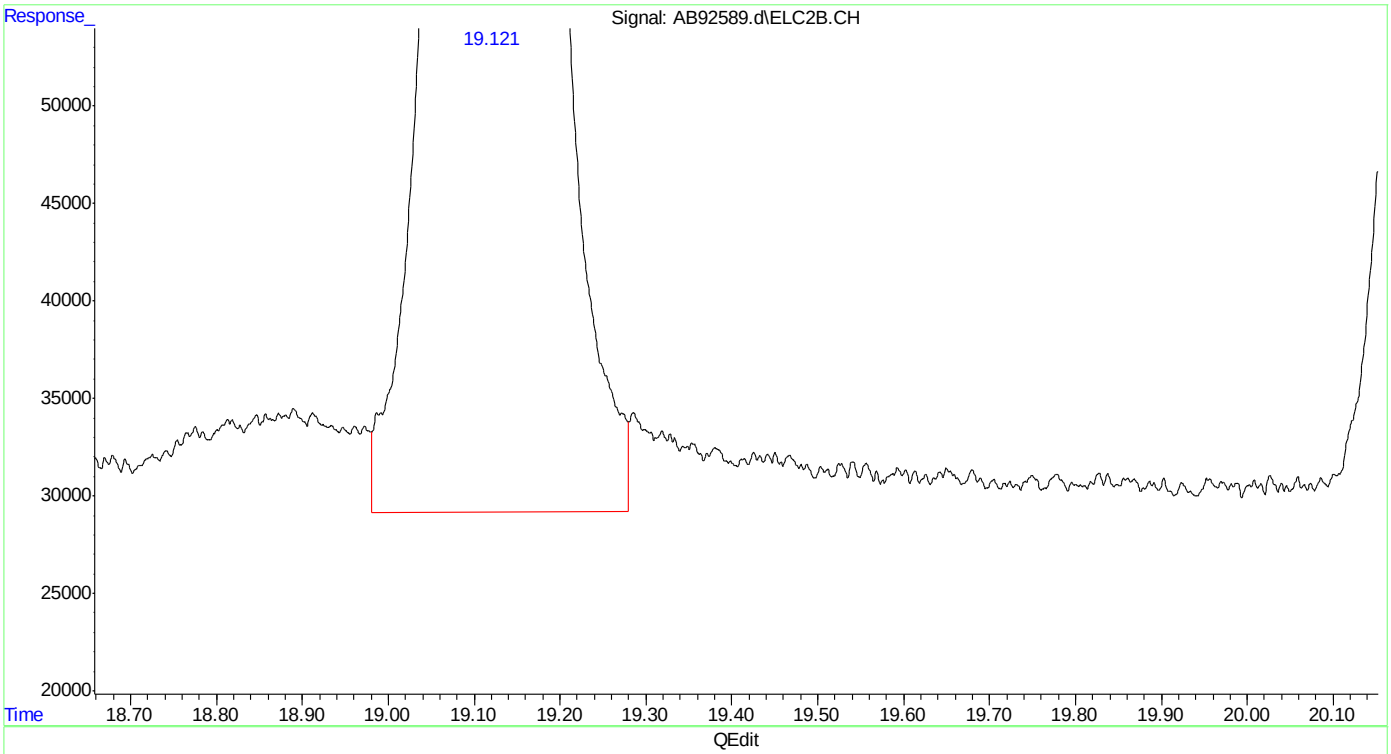
(+) = Expected Retention Time

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

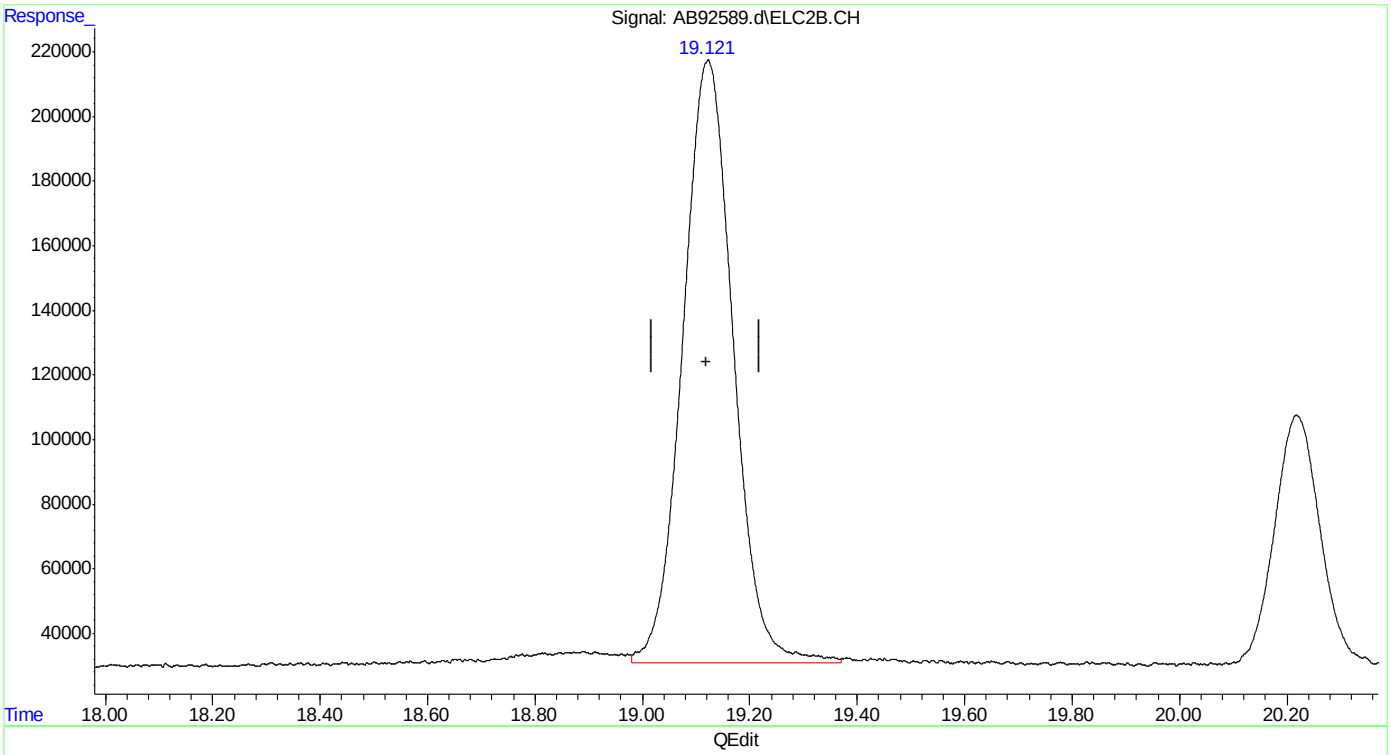
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:20 2016 Page: 1

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

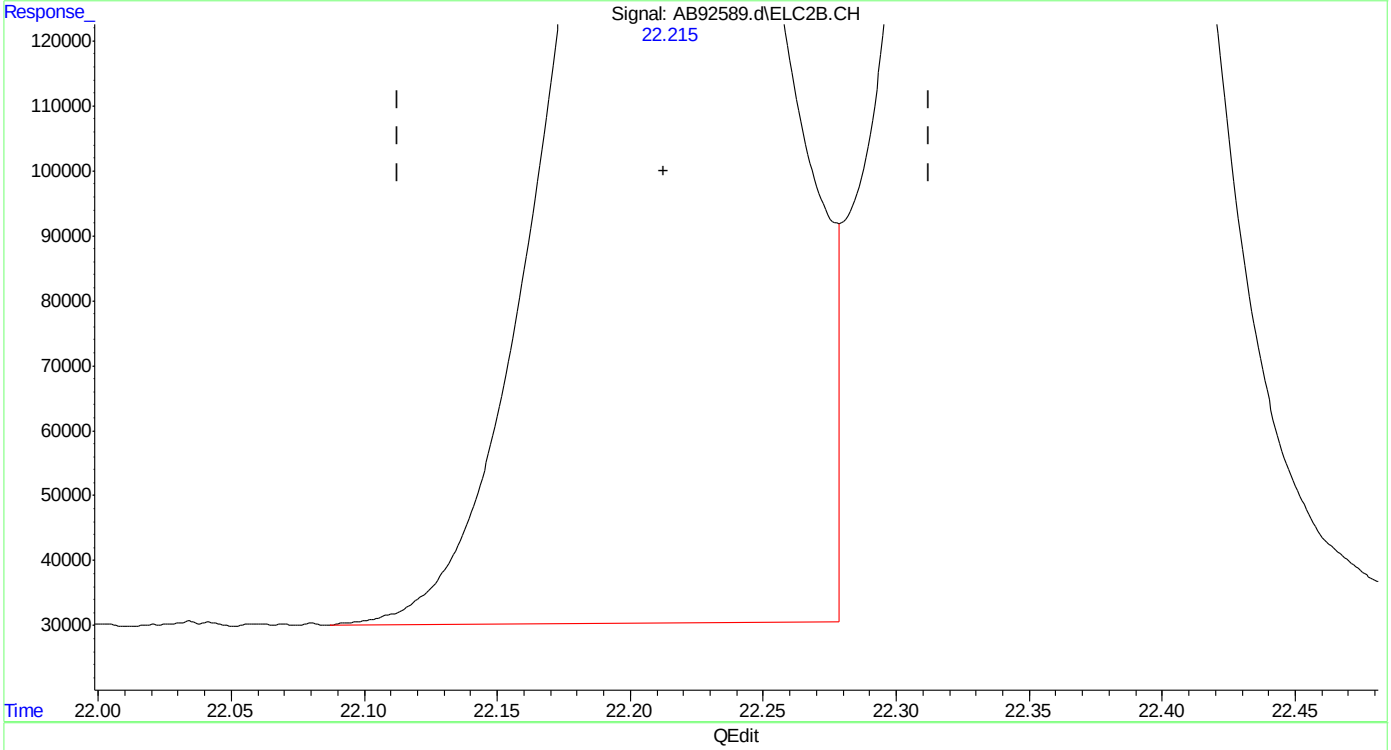
SGS ACCUTEST MC45678

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

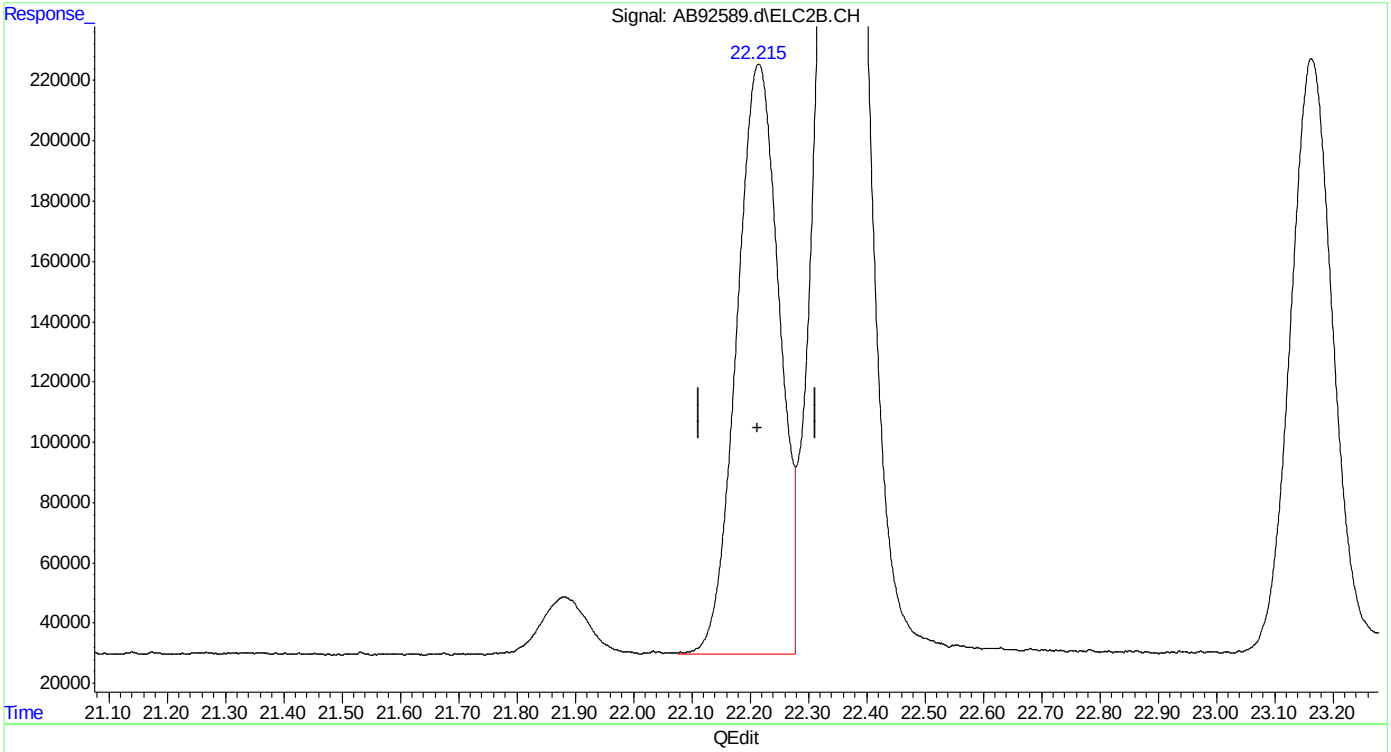
SGS ACCUTEST MC45678

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

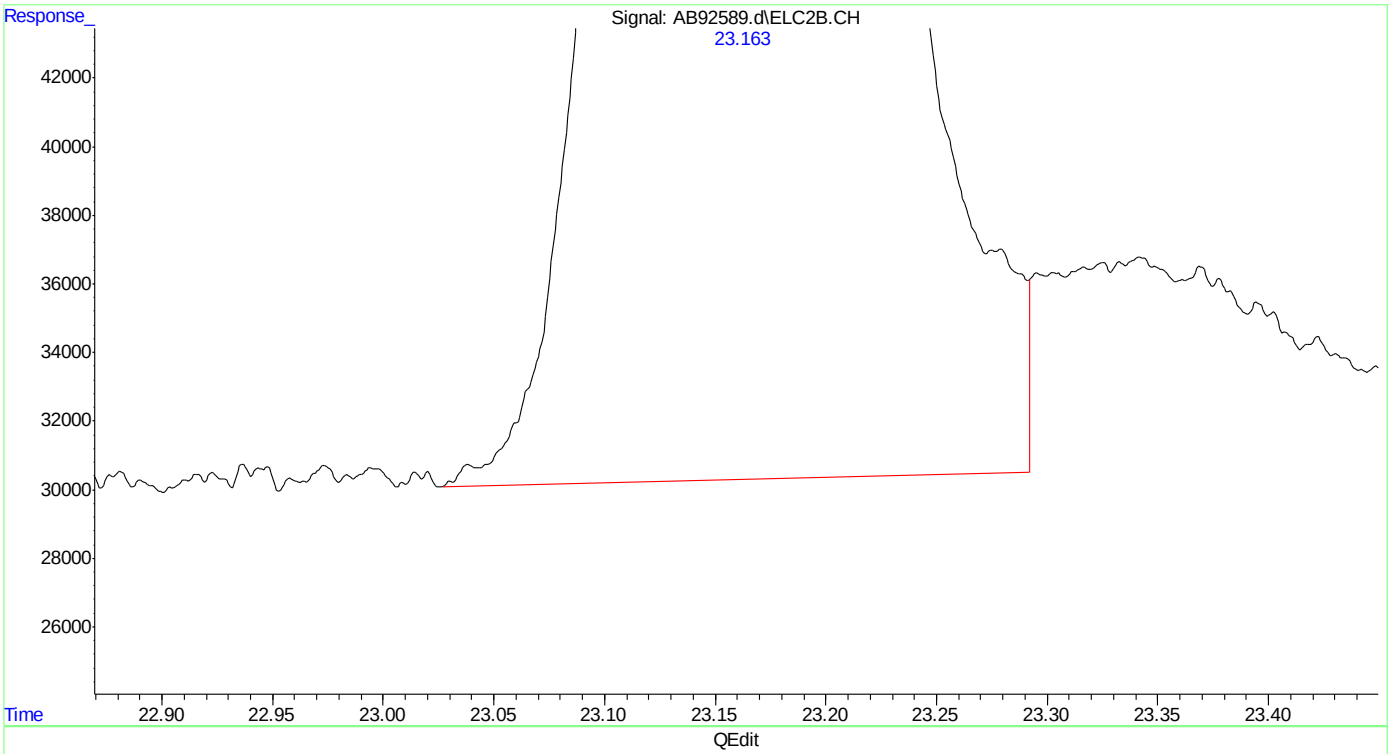
(+) = Expected Retention Time

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

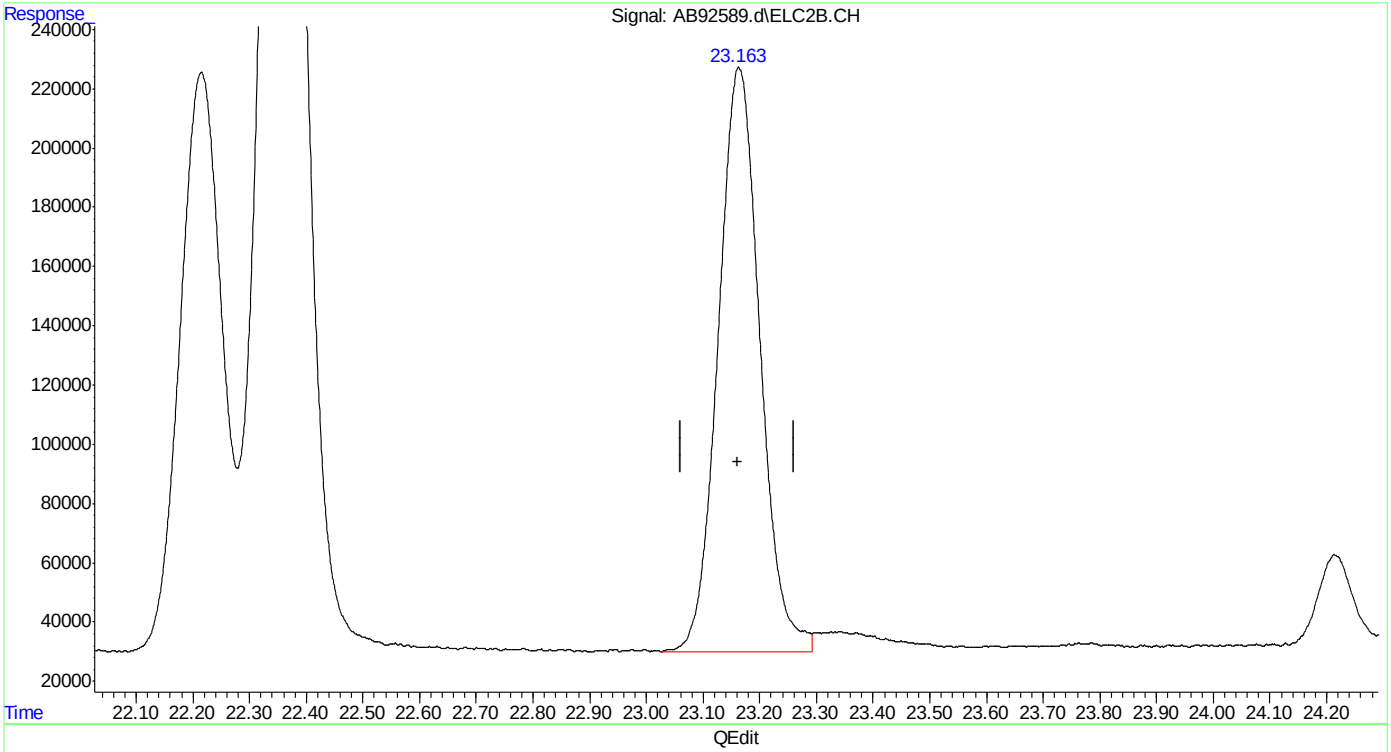
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:57 2016 Page: 1

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 :



(30) o-xylene #2
23.163min 9.945 ppb m
response 10078357

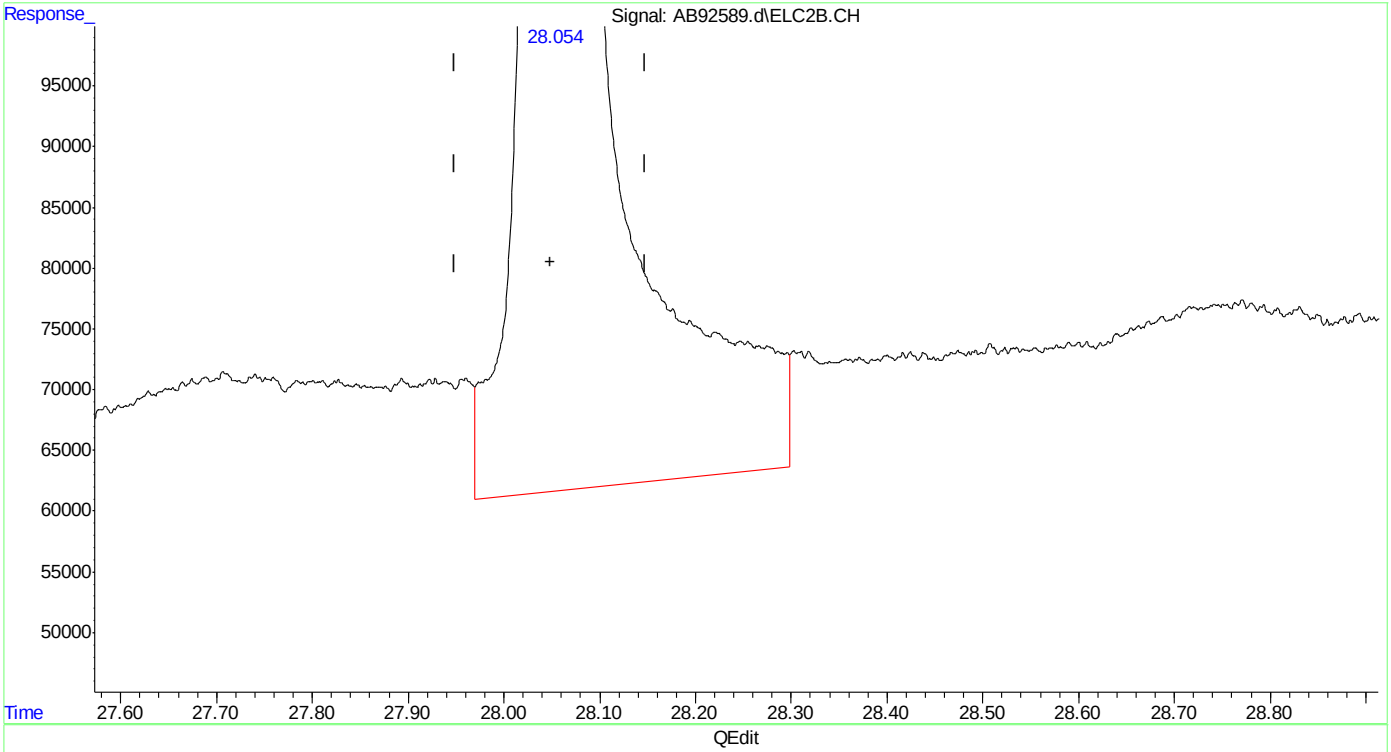
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:12:07 2016

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

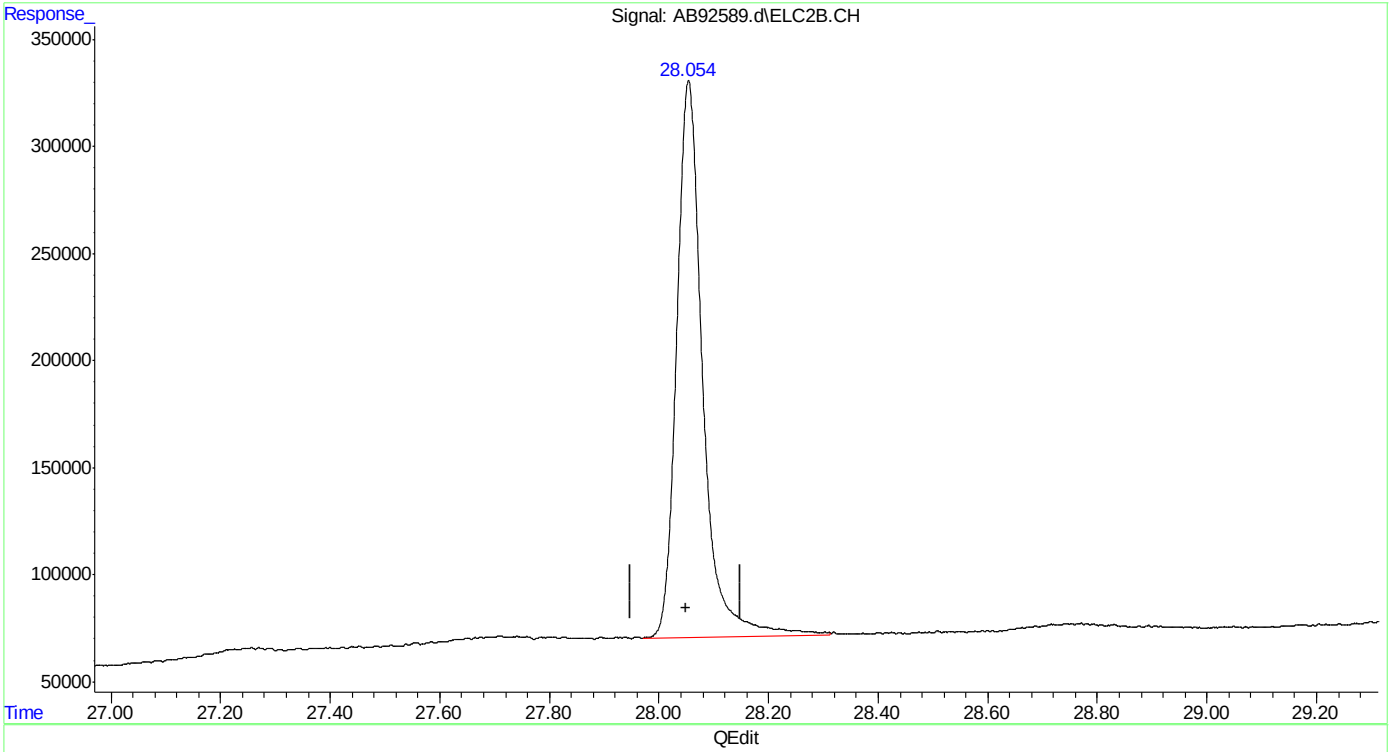
(+) = Expected Retention Time

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

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

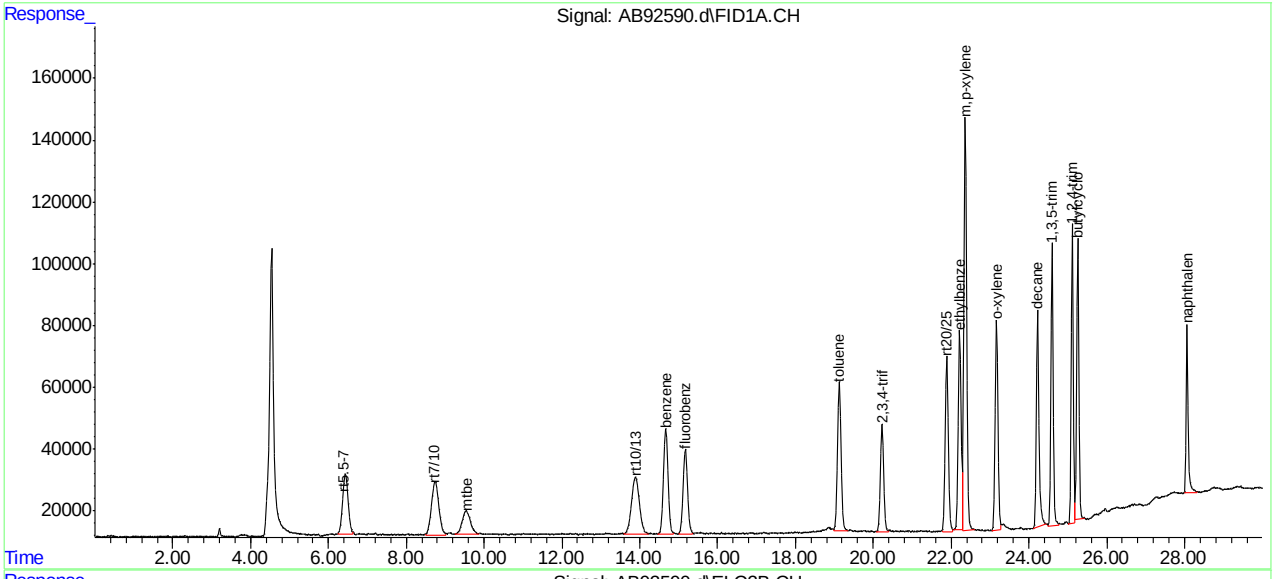
(f)=RT Delta > 1/2 Window (m)=manual int.

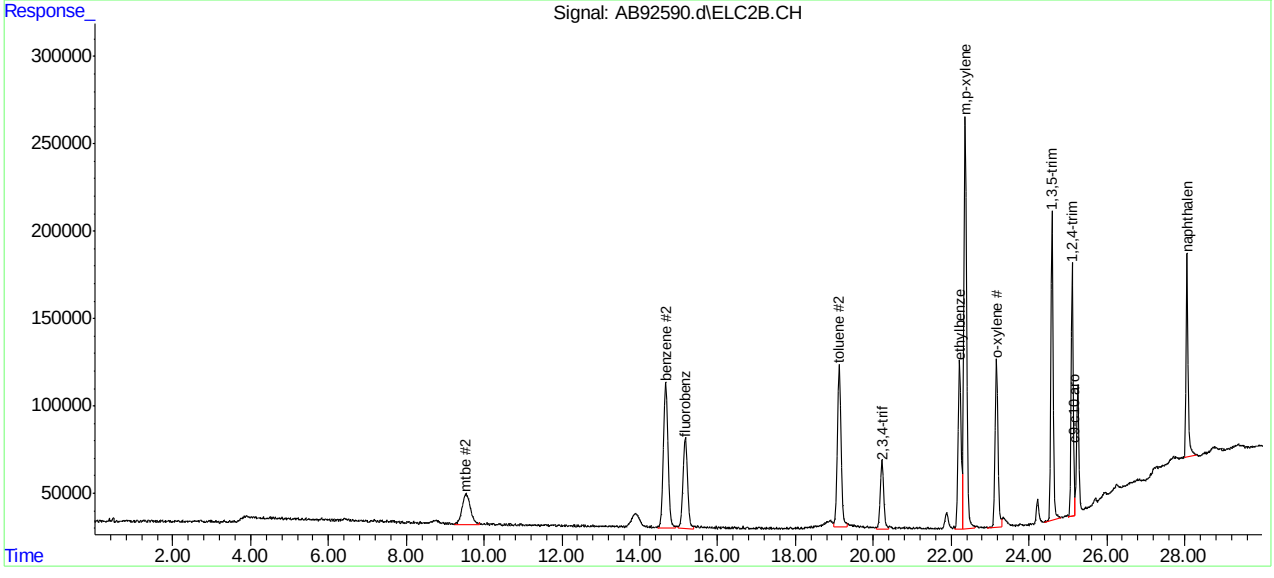
Quantitation Report (QT Reviewed)

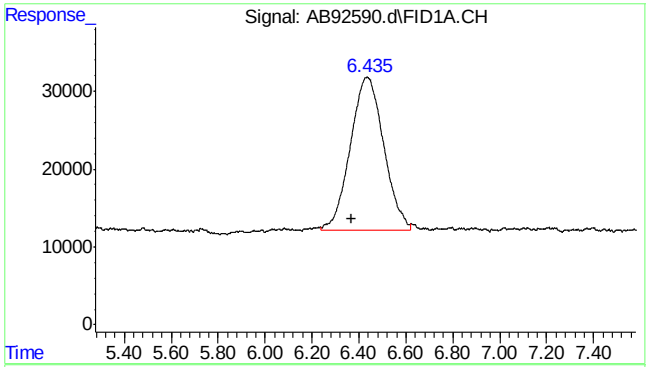
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

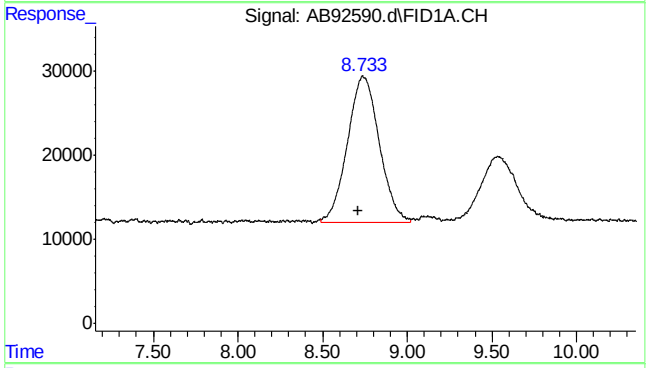






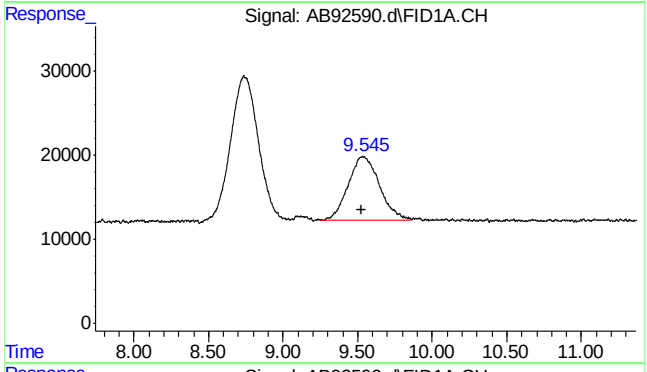
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 1948123
Conc: 5.39 ppb m



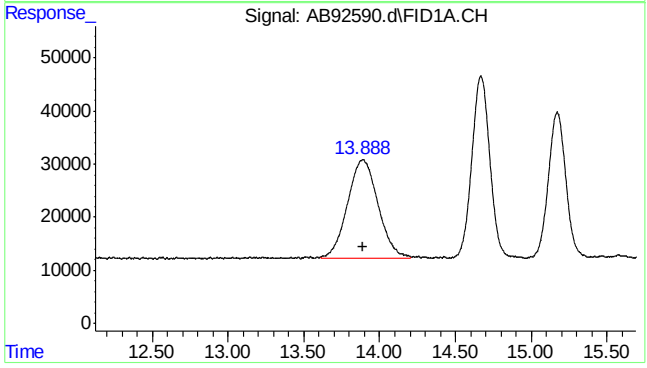
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 2254884
Conc: 5.44 ppb m



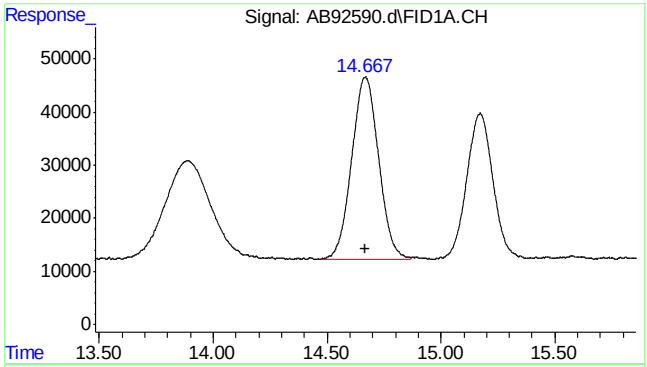
#3 mtbe

R.T.: 9.545 min
Delta R.T.: 0.014 min
Response: 1116791
Conc: 5.09 ppb m



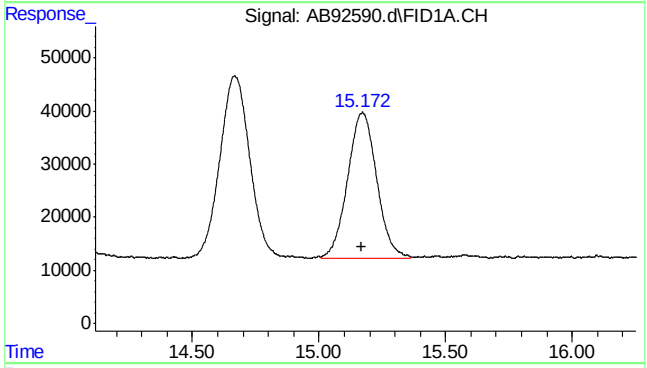
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 2659091
Conc: 5.76 ppb m



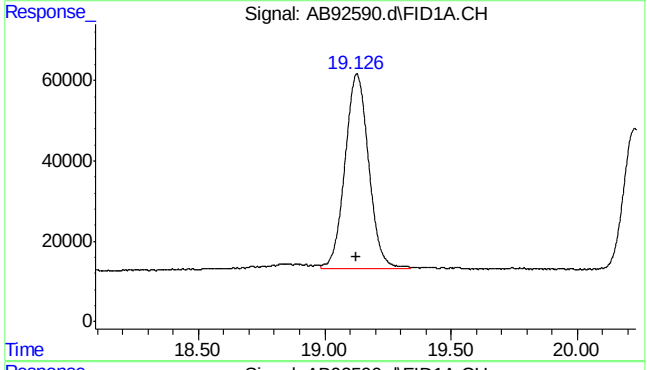
#5 benzene

R.T.: 14.667 min
Delta R.T.: 0.002 min
Response: 2826290
Conc: 5.10 ppb



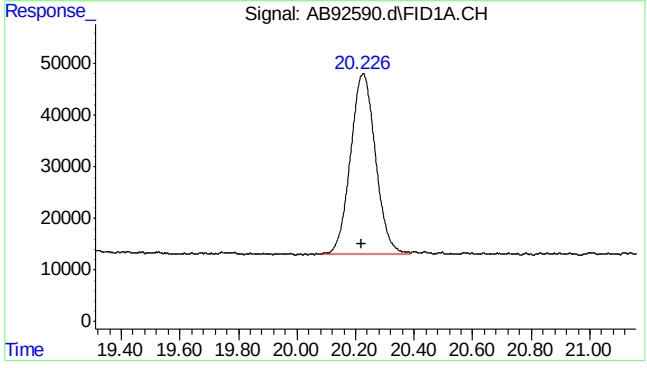
#6 fluorobenzene

R.T.: 15.172 min
Delta R.T.: 0.004 min
Response: 2200101
Conc: 5.01 ppb m



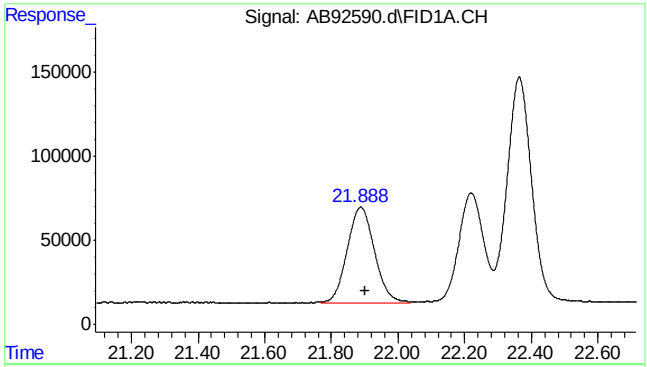
#8 toluene

R.T.: 19.126 min
Delta R.T.: 0.002 min
Response: 3128391
Conc: 5.14 ppb m



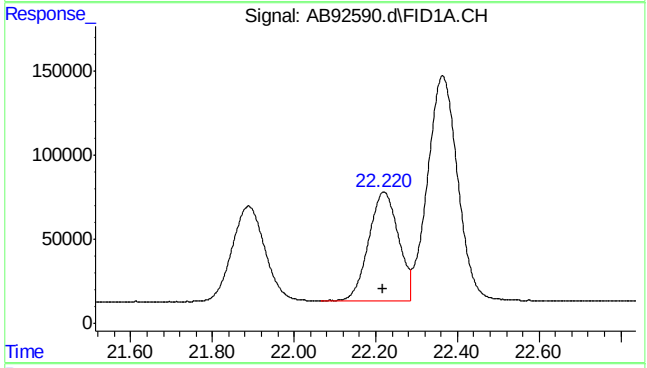
#9 2,3,4-trifluorotoluene

R.T.: 20.226 min
Delta R.T.: 0.006 min
Response: 2067831
Conc: 5.03 ppb



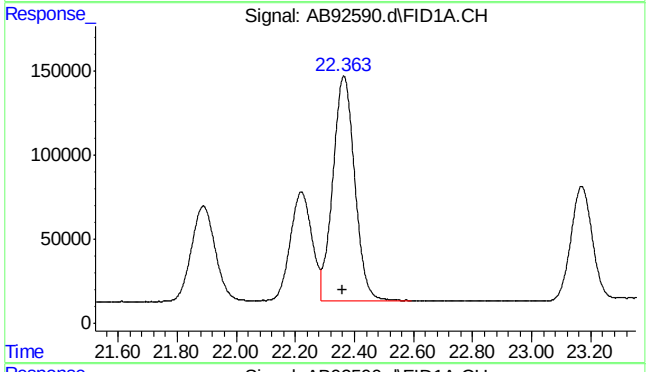
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 3202956
Conc: 5.33 ppb m



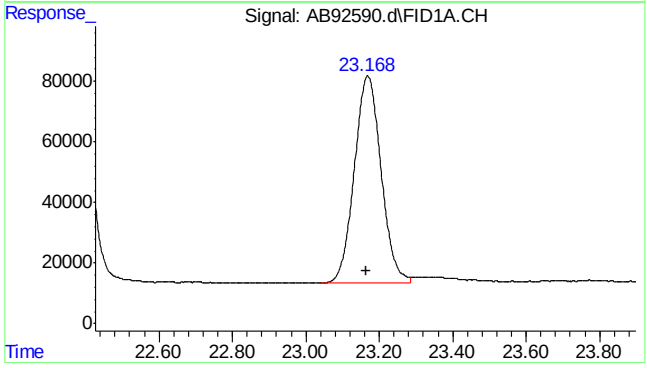
#13 ethylbenzene

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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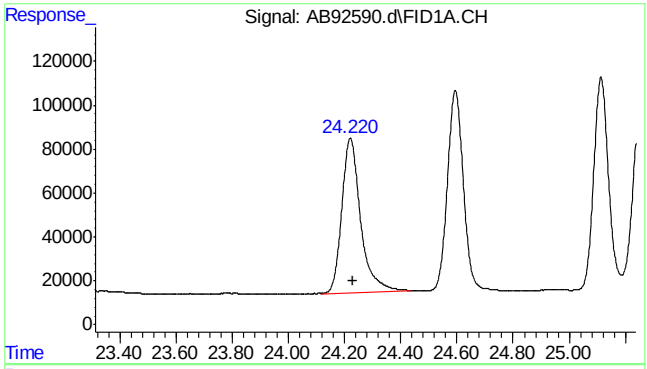
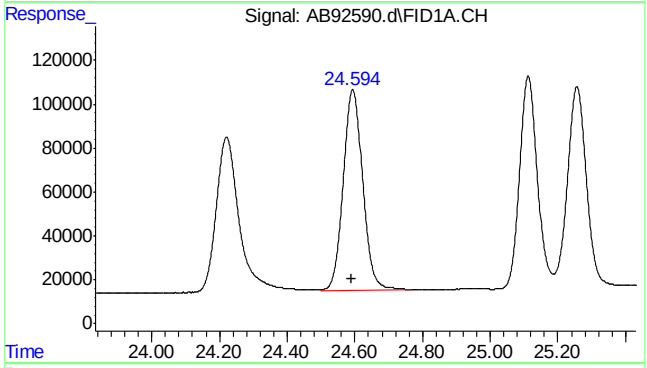


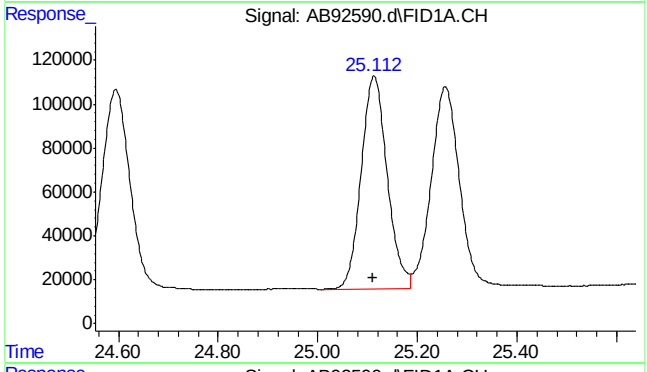
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 3274046
Conc: 5.34 ppb m



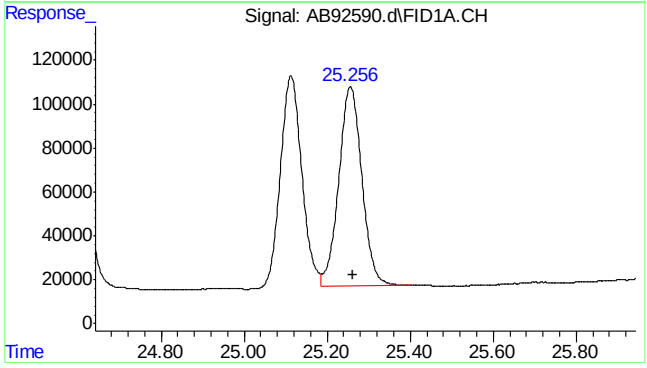
#17 1,3,5-trimethylbenzene

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



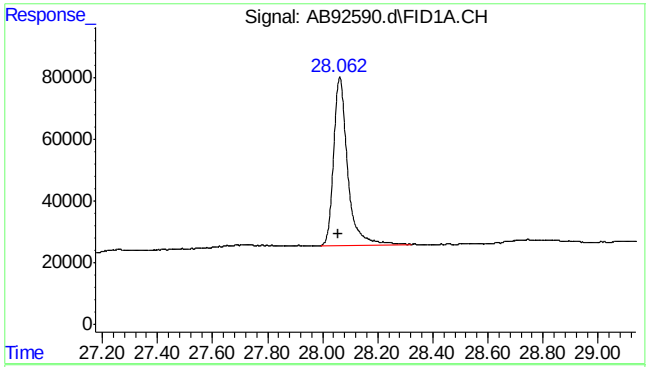
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 3520100
Conc: 5.38 ppb m

7.5.7

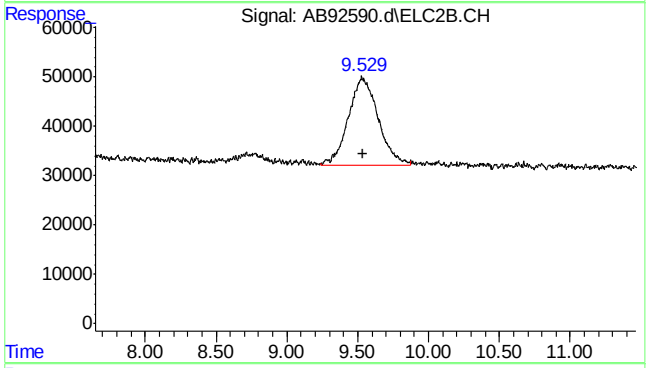
7

SGS ACCUTEST MC45678



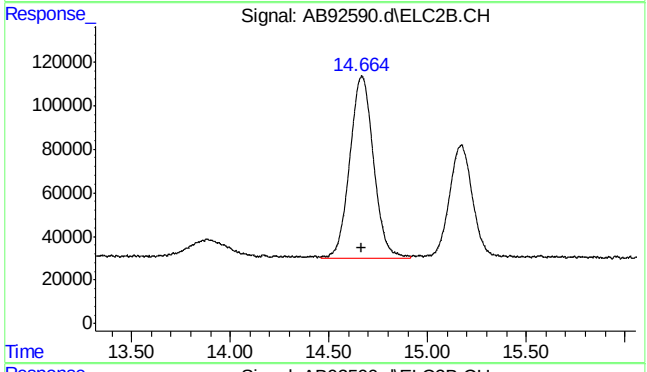
#20 naphthalene

R.T.: 28.062 min
Delta R.T.: 0.006 min
Response: 1936540
Conc: 5.28 ppb m



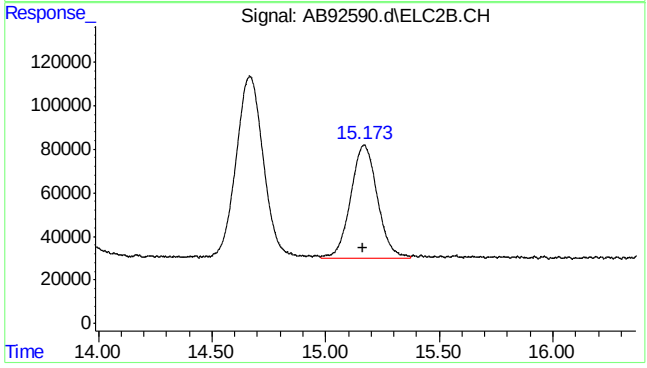
#23 mtbe #2

R.T.: 9.529 min
Delta R.T.: -0.007 min
Response: 2603992
Conc: 5.03 ppb m



#24 benzene #2

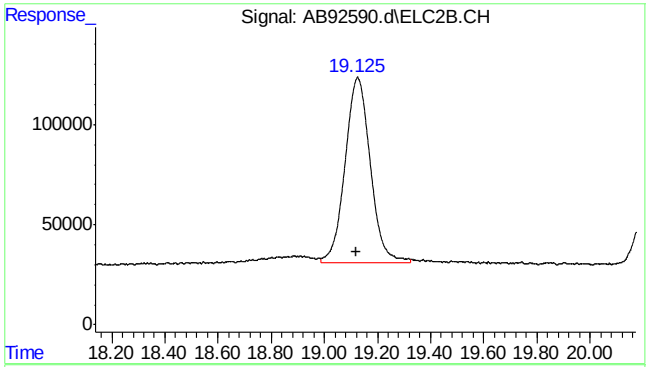
R.T.: 14.666 min
Delta R.T.: 0.000 min
Response: 7007038
Conc: 5.00 ppb



#25 fluorobenzene #2

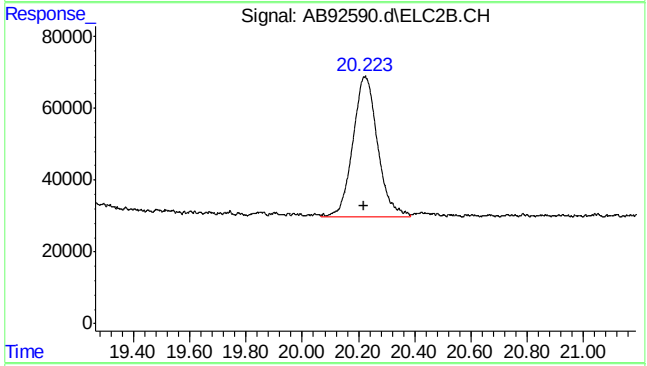
R.T.: 15.171 min
Delta R.T.: 0.006 min
Response: 4291225
Conc: 4.86 ppb

SGS ACCUTEST MC45678



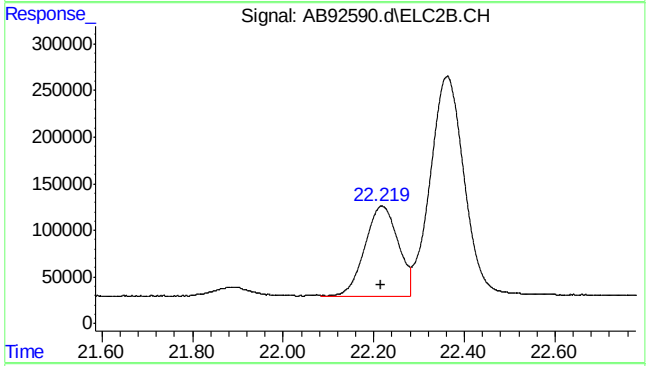
#26 toluene #2

R.T.: 19.125 min
Delta R.T.: 0.004 min
Response: 6163190
Conc: 5.08 ppb m



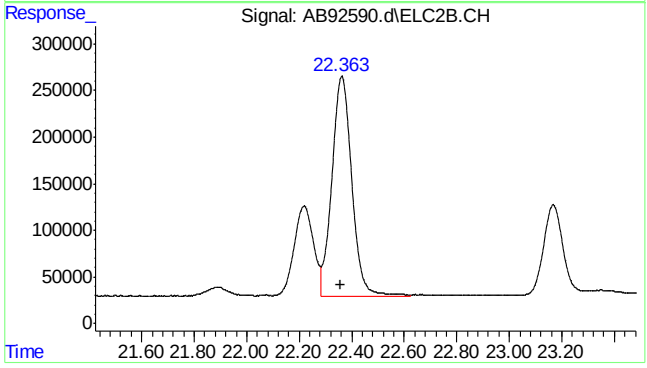
#27 2,3,4-trifluorotoluene #2

R.T.: 20.223 min
Delta R.T.: 0.005 min
Response: 2393092
Conc: 5.07 ppb m



#28 ethylbenzene #2

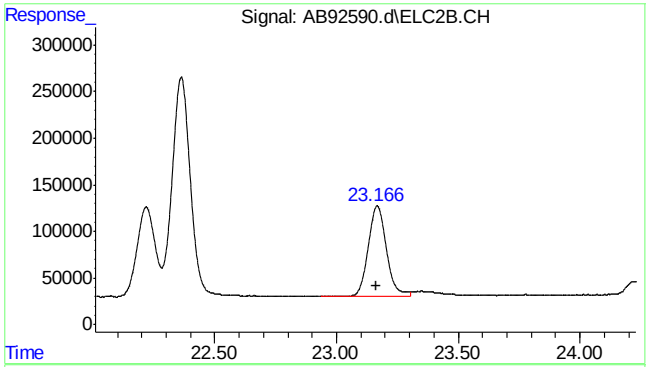
R.T.: 22.219 min
Delta R.T.: 0.004 min
Response: 4988642
Conc: 5.00 ppb m



#29 m,p-xylene #2

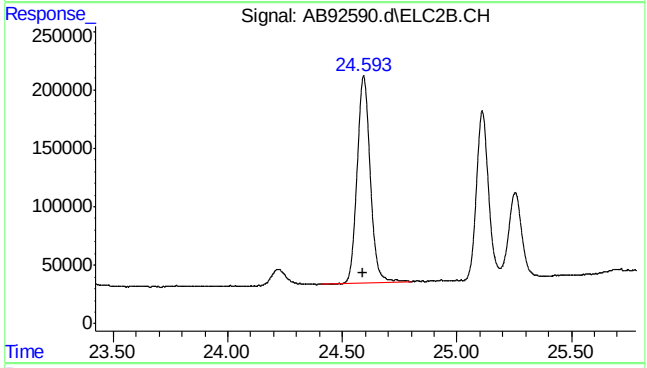
R.T.: 22.362 min
Delta R.T.: 0.004 min
Response: 12375835
Conc: 10.15 ppb

SGS ACCUTEST MC45678



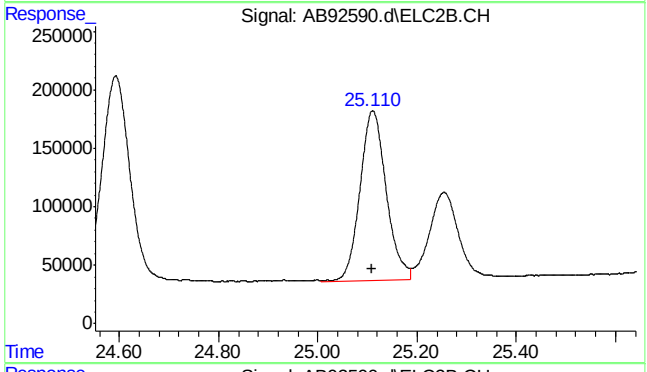
#30 o-xylene #2

R.T.: 23.167 min
Delta R.T.: 0.004 min
Response: 5064076
Conc: 5.01 ppb



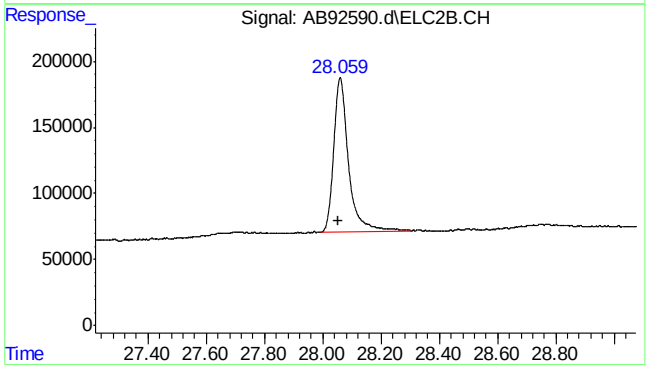
#31 1,3,5-trimethylbenzene #2

R.T.: 24.593 min
Delta R.T.: 0.003 min
Response: 7113412
Conc: 4.94 ppb



#32 1,2,4-trimethylbenzene #2

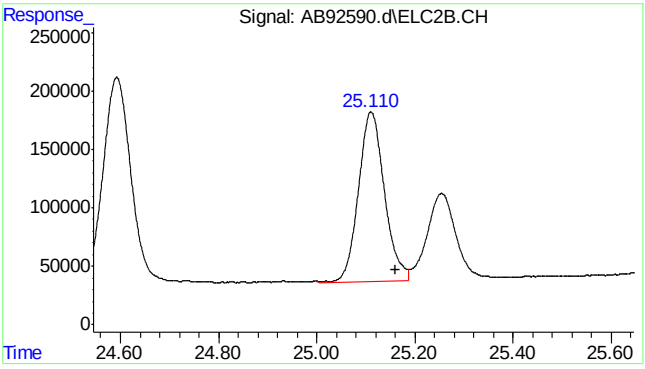
R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 5356131
Conc: 5.07 ppb m



#33 naphthalene #2

R.T.: 28.059 min
Delta R.T.: 0.005 min
Response: 4141853
Conc: 5.13 ppb m

SGS ACCUTEST MC45678




```
#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

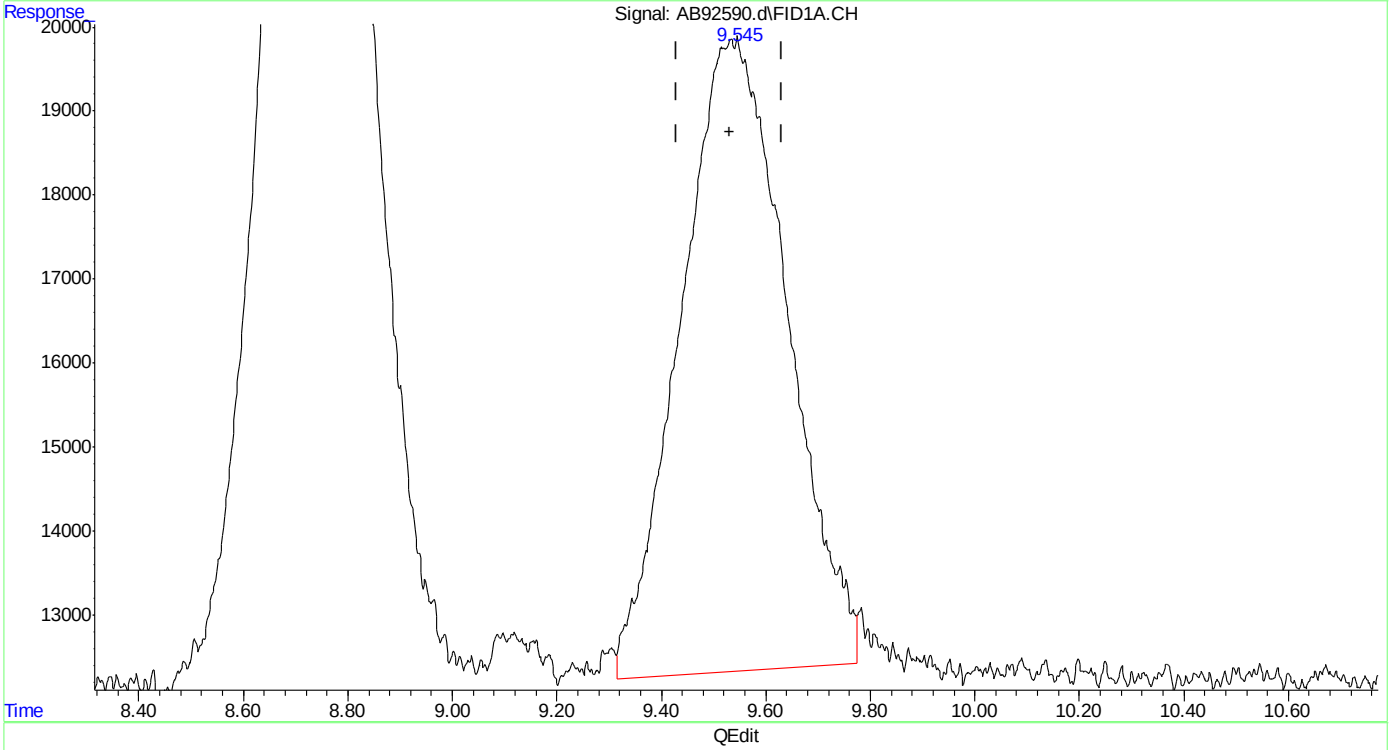
SGS ACCUTEST MC45678

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

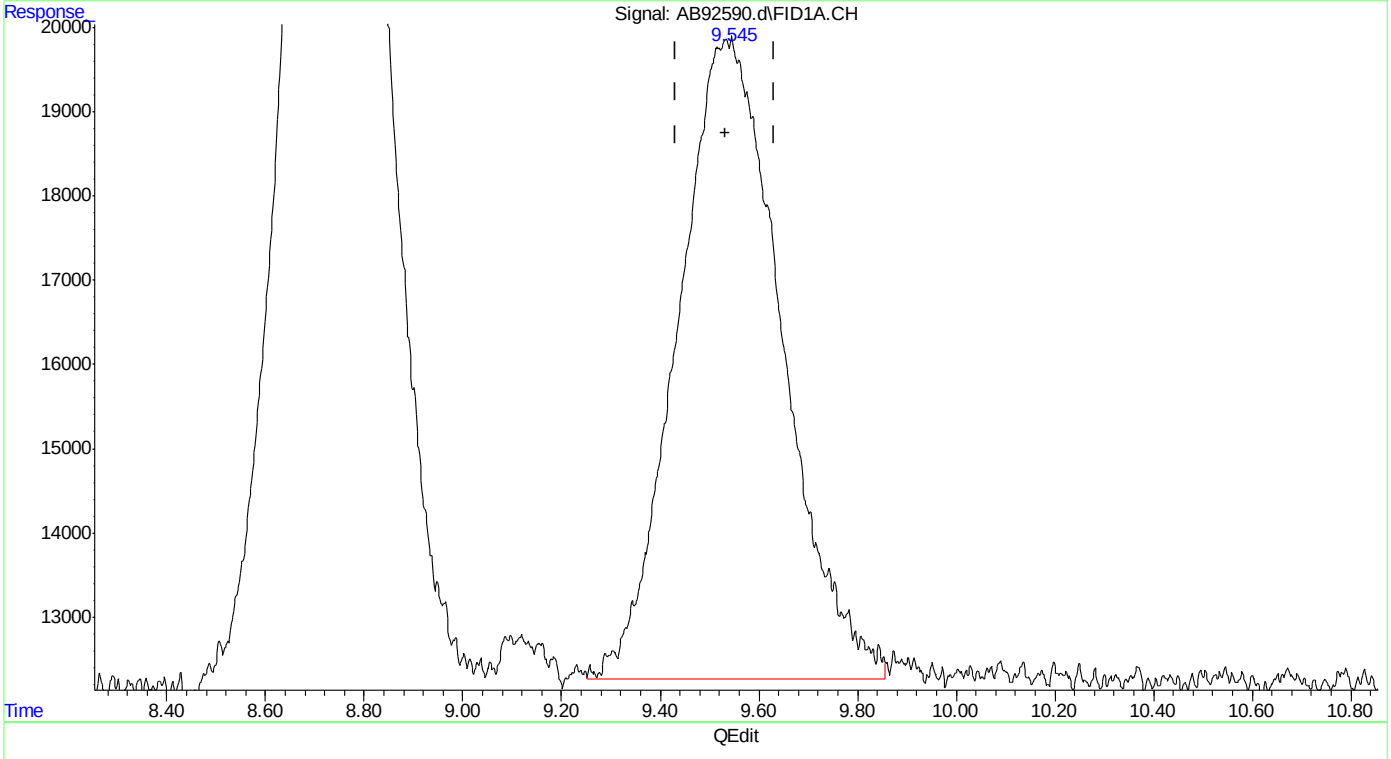
(+) = Expected Retention Time

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 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 :

(6) fluorobenzene (s)
15.172min 4.976 ppb
response 2185883

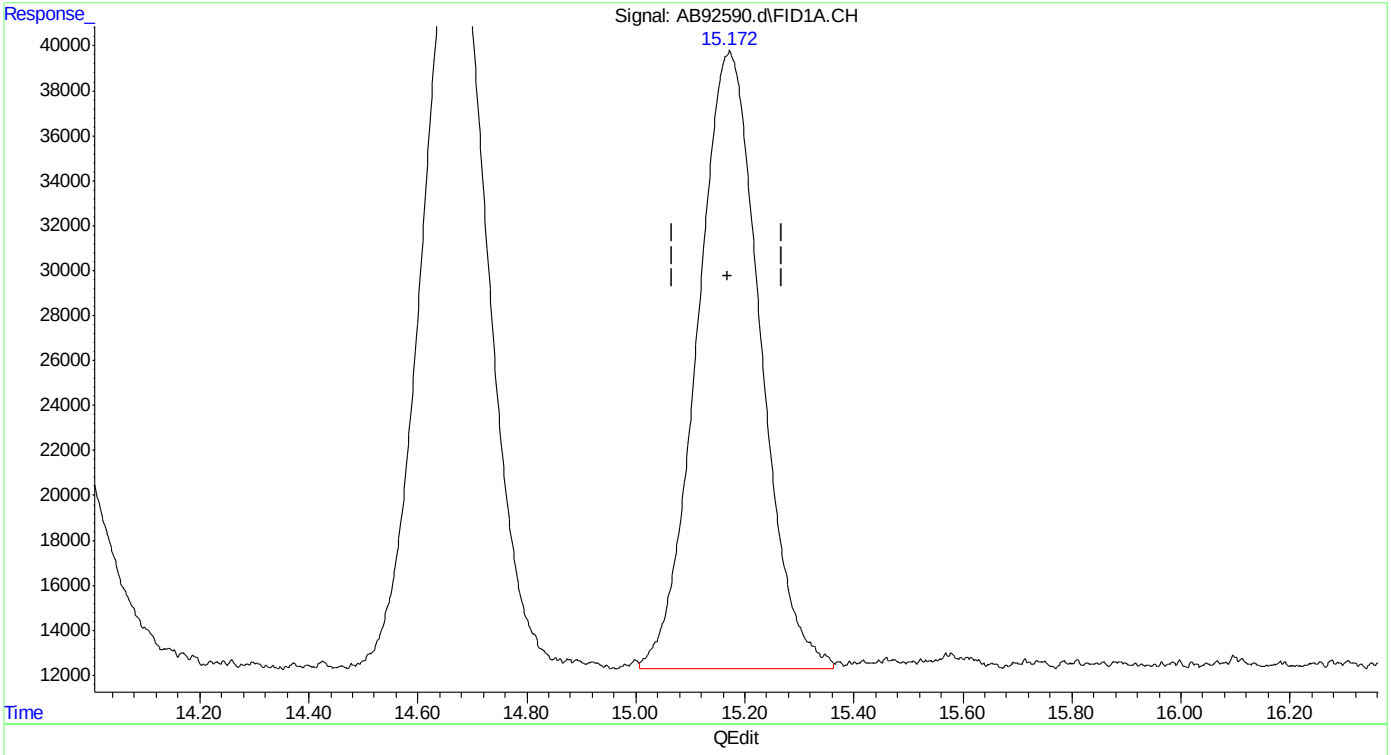
(+) = Expected Retention Time

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
ab160112vphmaster.M Tue Jan 12 12:42:08 2016

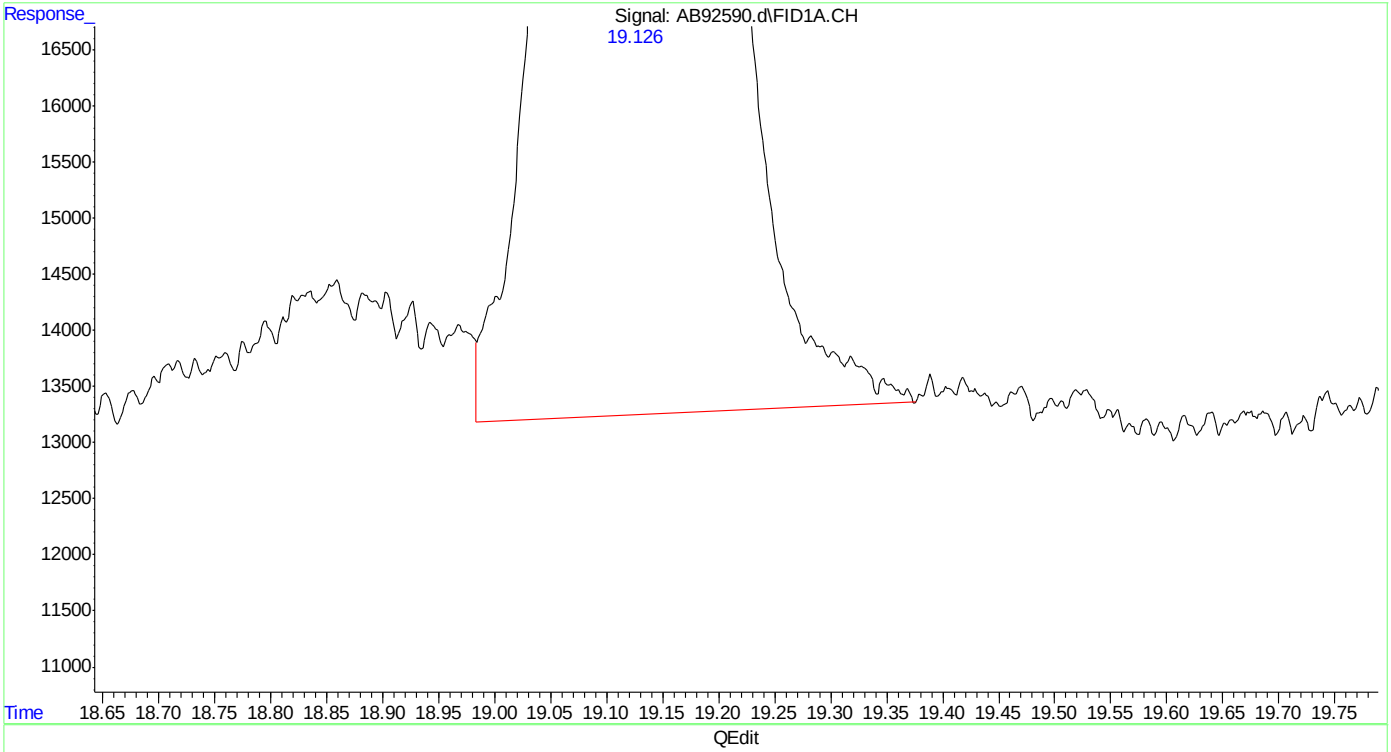
SGS ACCUTEST MC45678

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

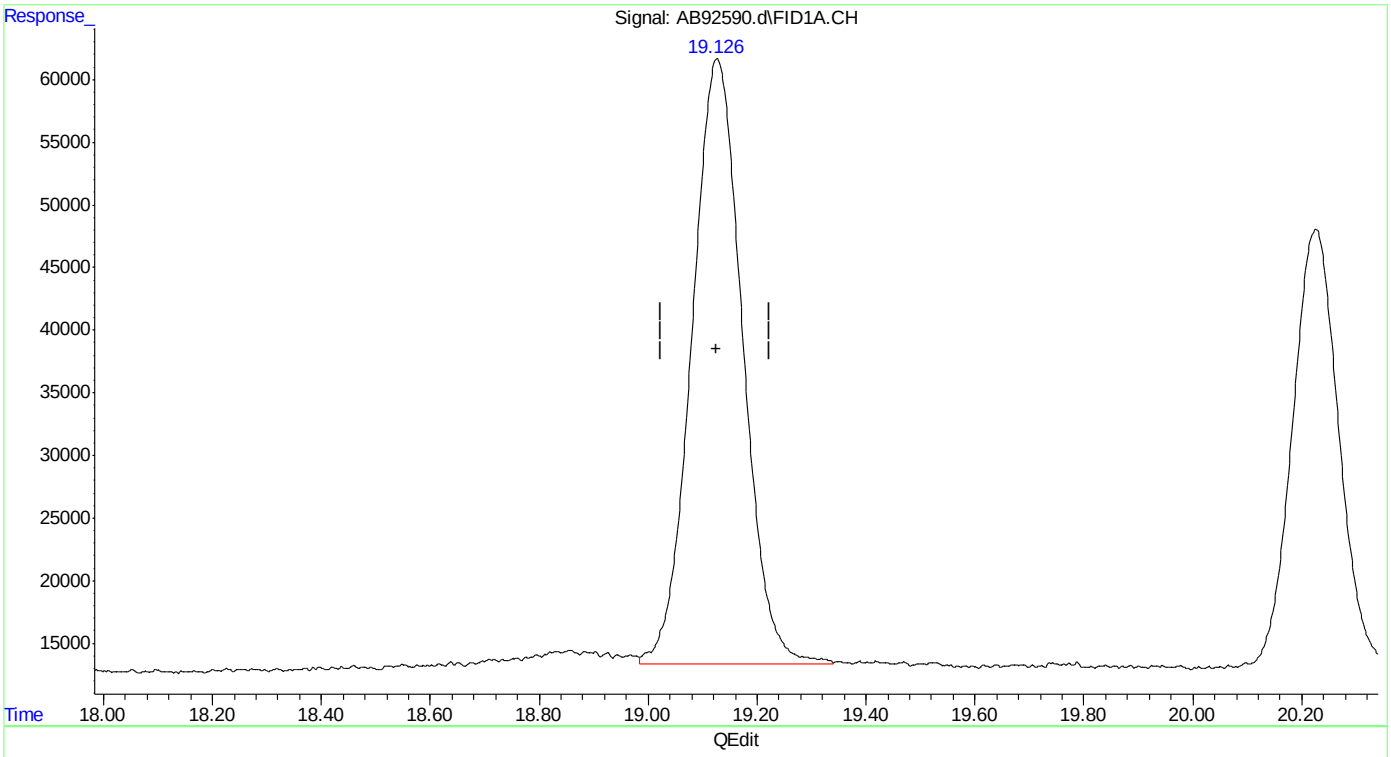
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:42:13 2016 Page: 1

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 :



(8) toluene
19.126min 5.137 ppb m
response 3128391

(+) = Expected Retention Time

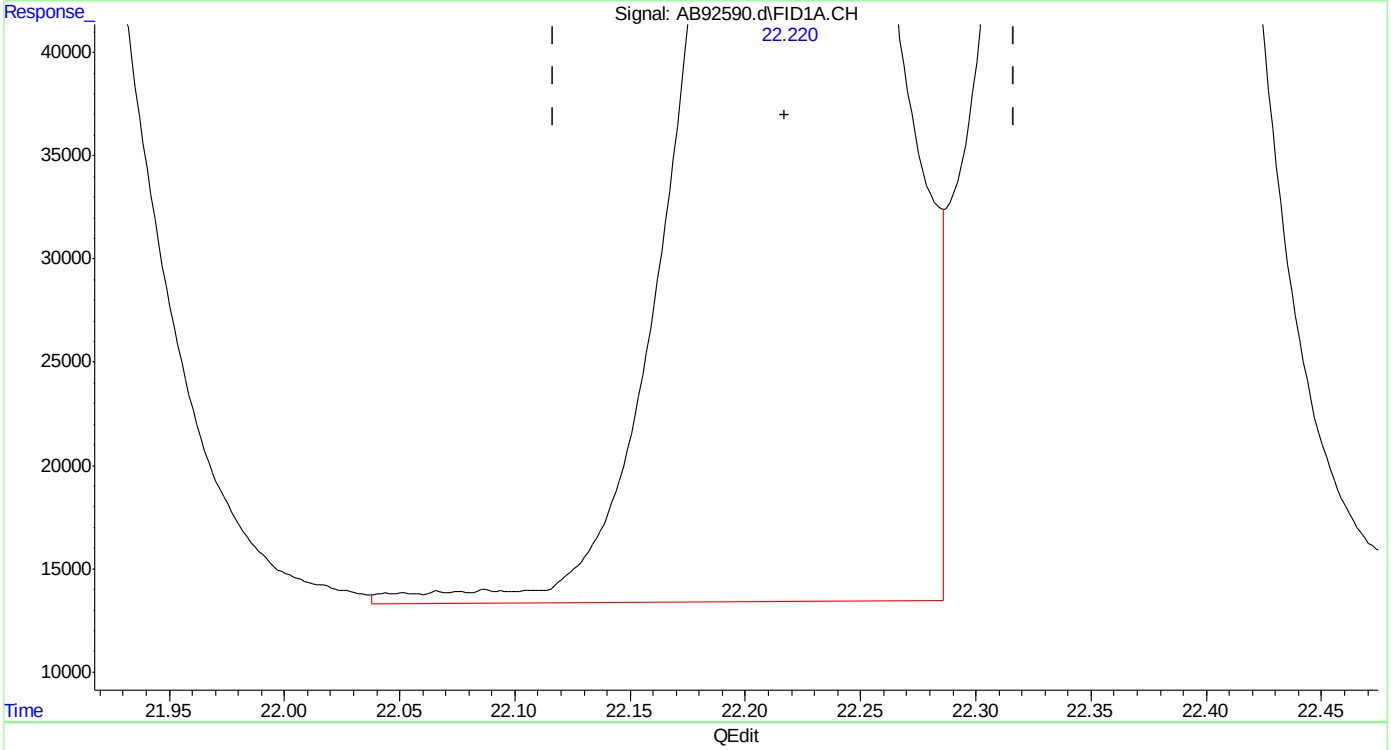
SGS ACCUTEST MC45678

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

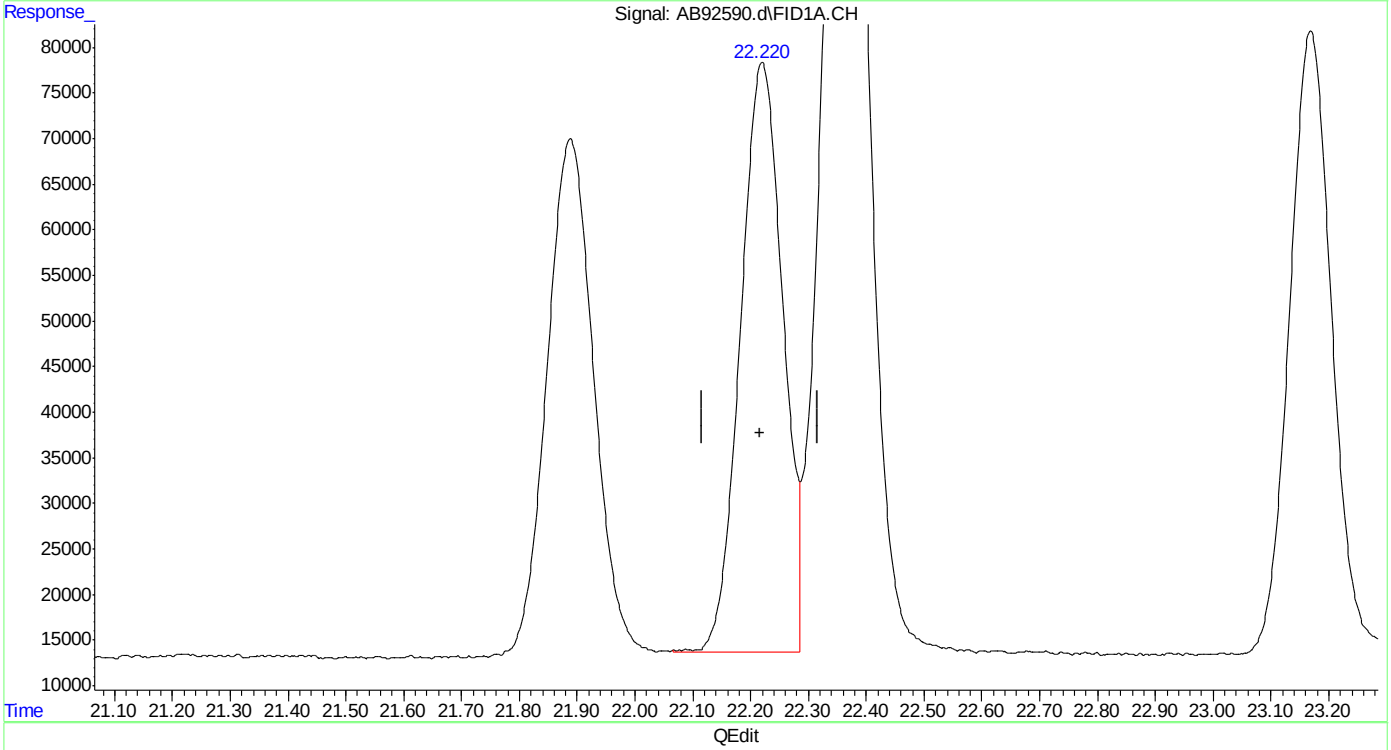
(+) = Expected Retention Time

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

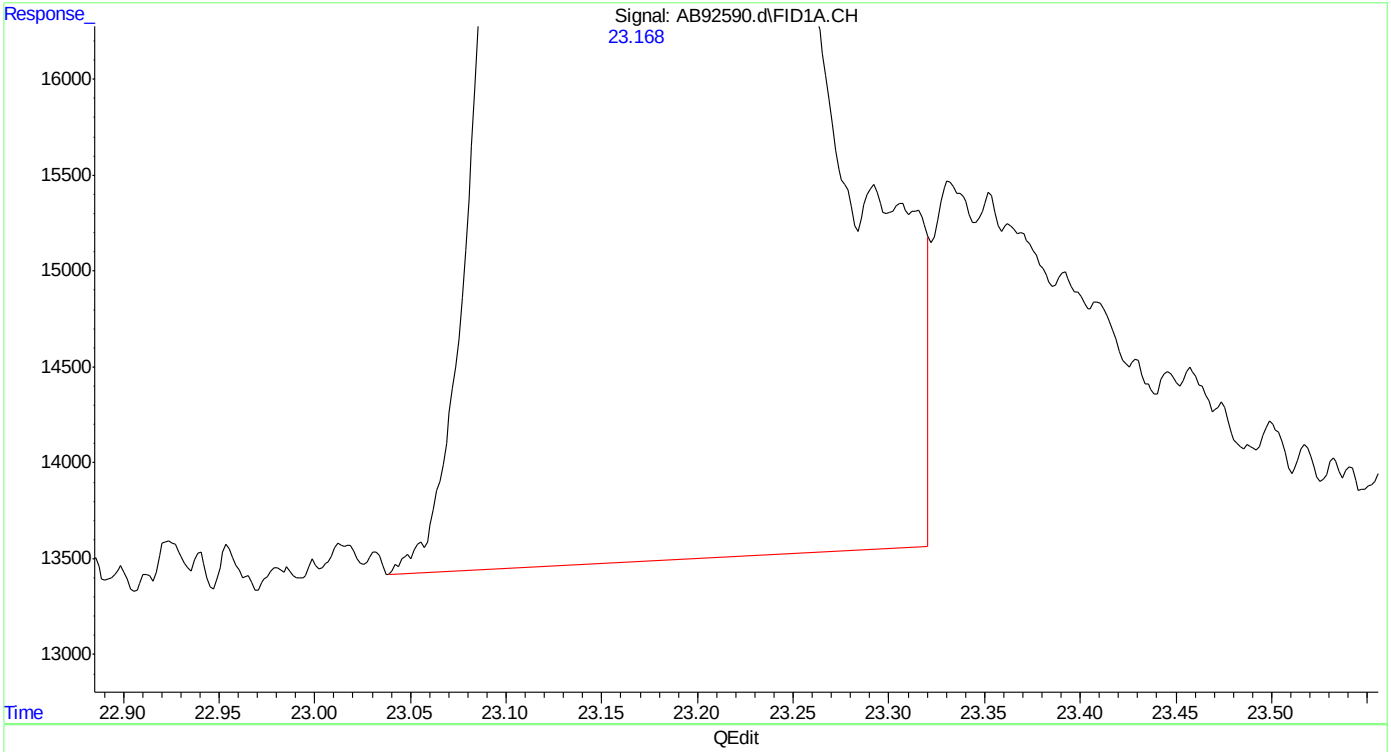
(+) = Expected Retention Time

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

ab160112vphmaster.M Tue Jan 12 12:43:30 2016

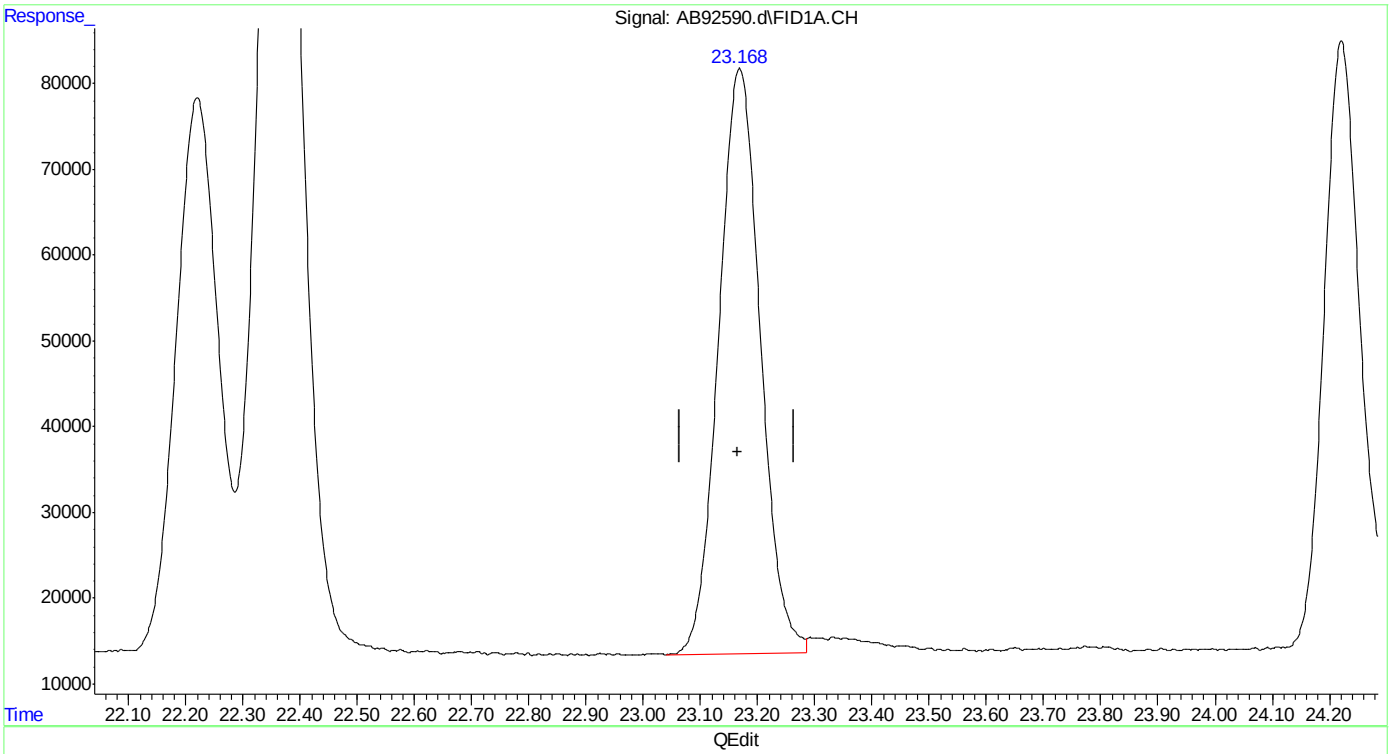
SGS ACCUTEST MC45678

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

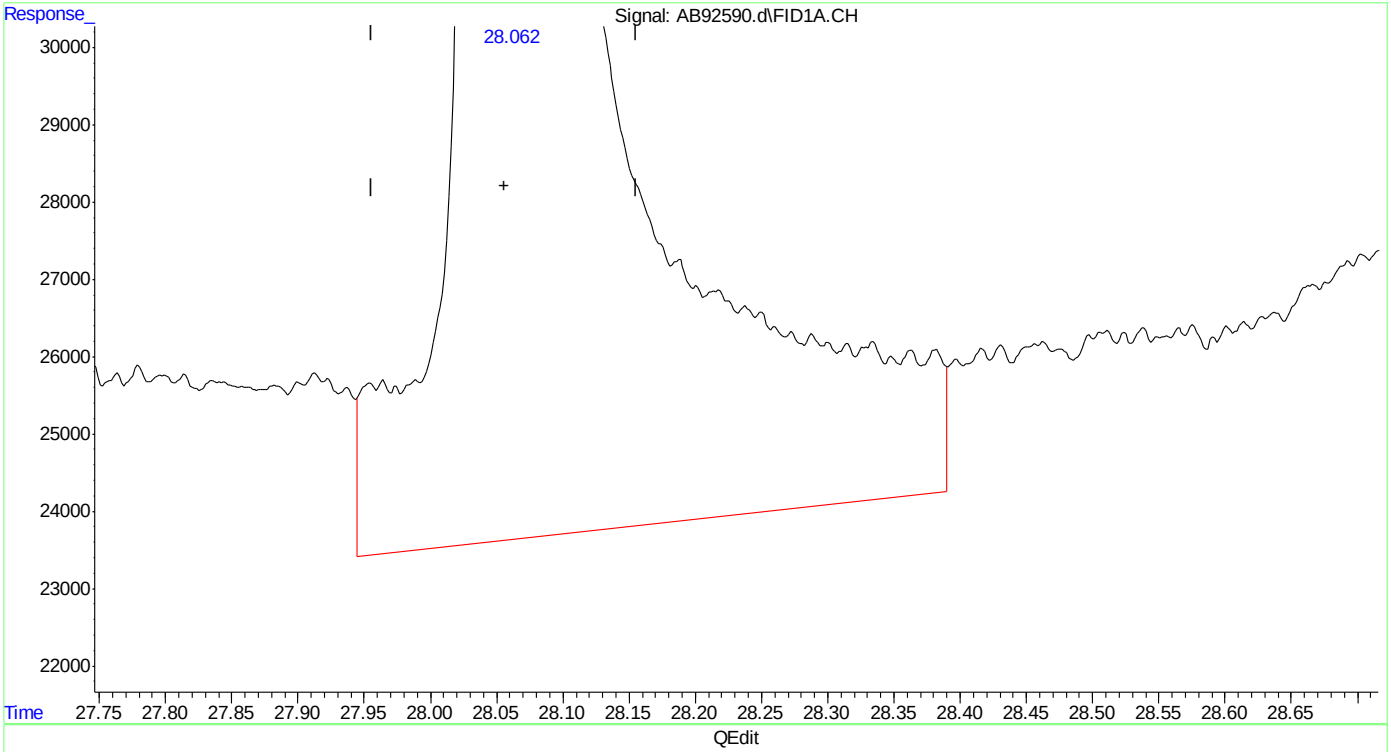
SGS ACCUTEST MC45678

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

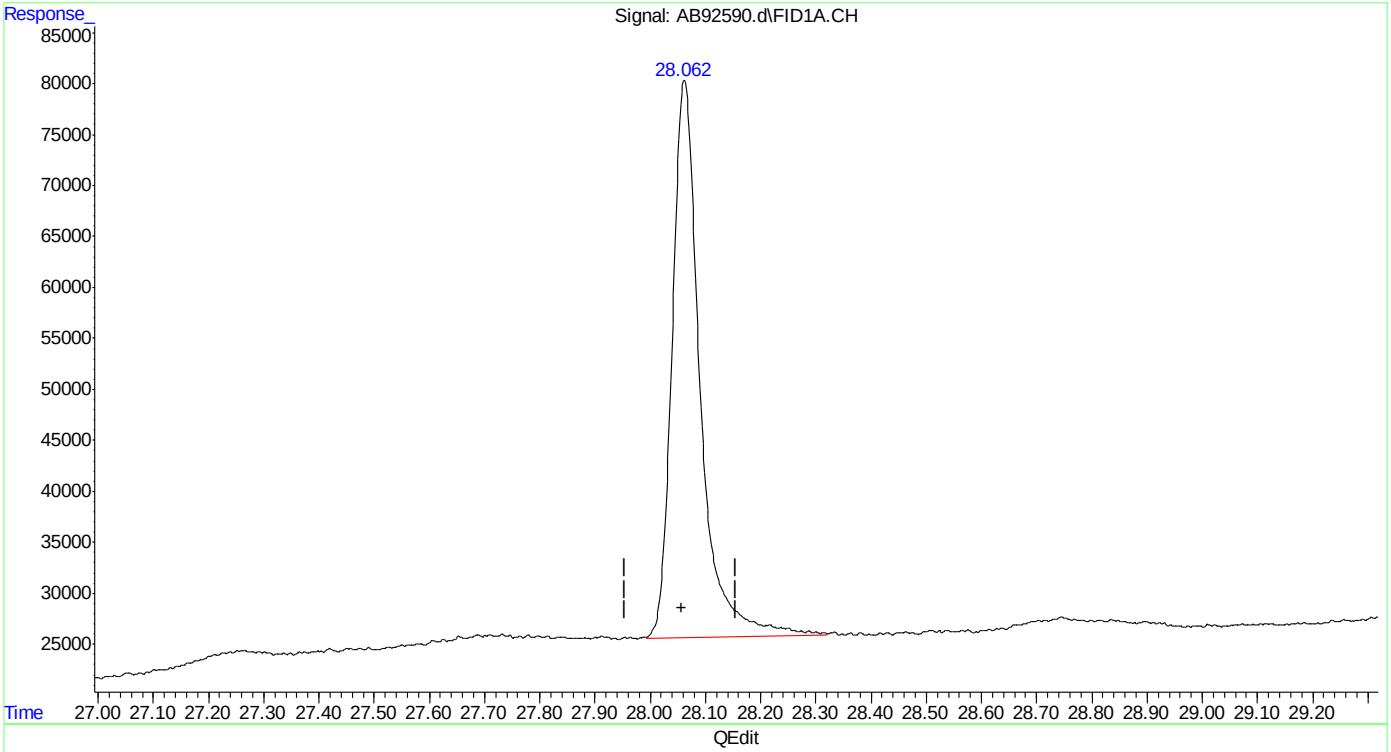
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:44:24 2016

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 :



(20) naphthalene
28.062min 5.278 ppb m
response 1936540

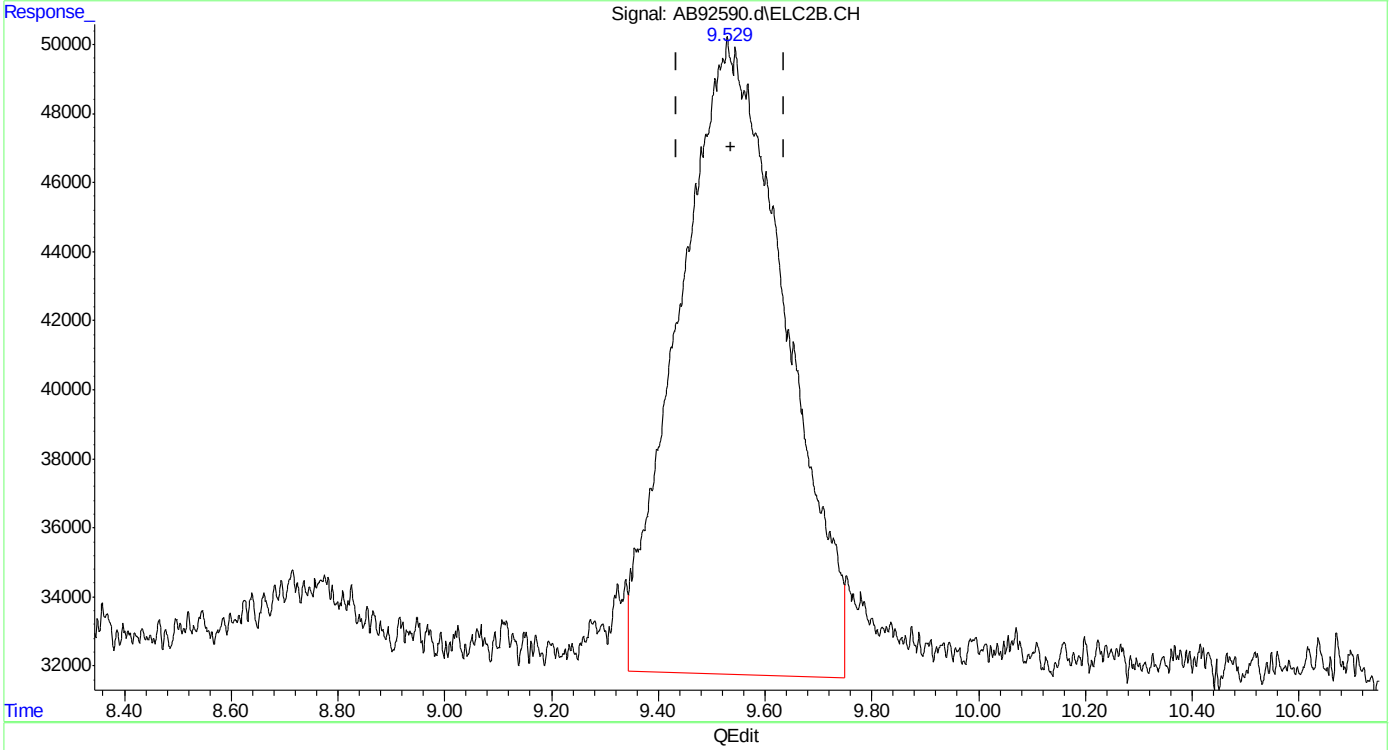
(+) = Expected Retention Time

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
9.530min 4.904 ppb
response 2540172

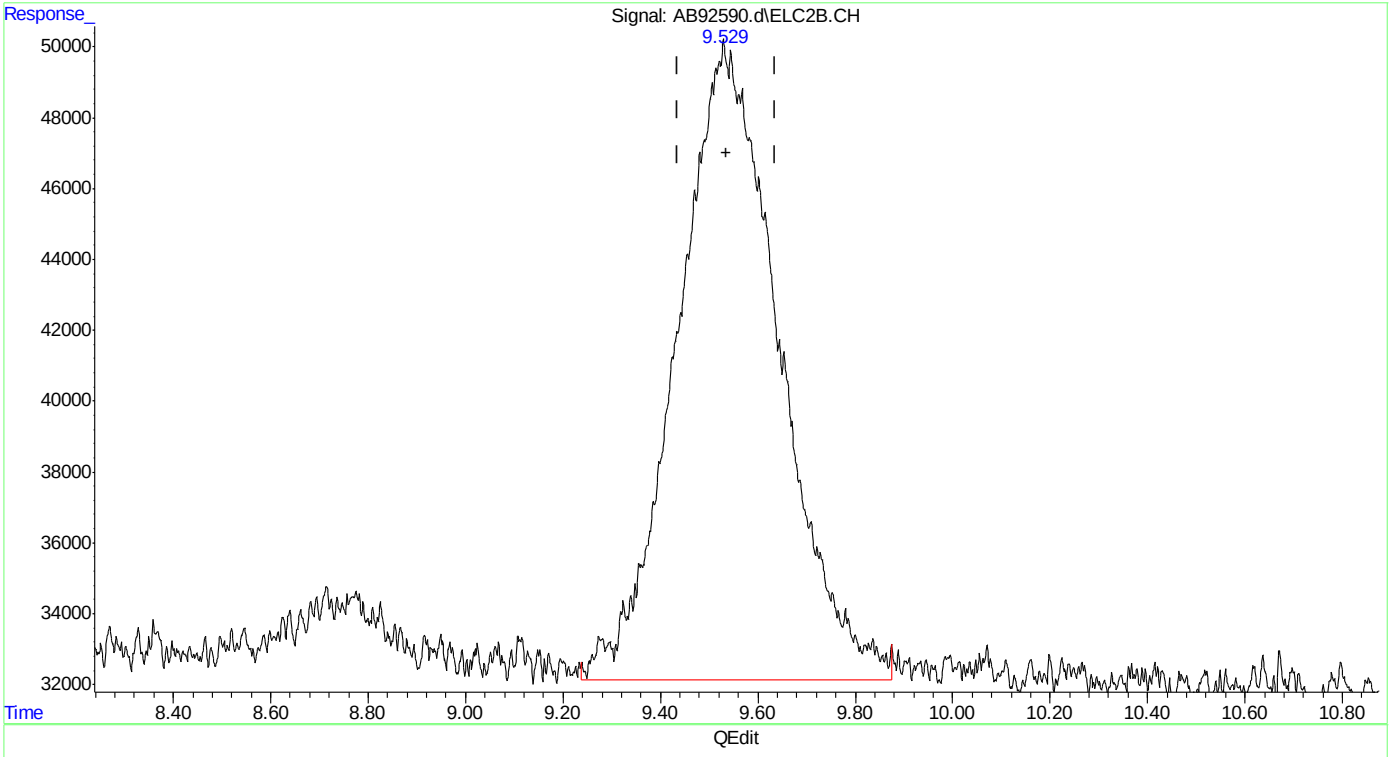
(+) = Expected Retention Time

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

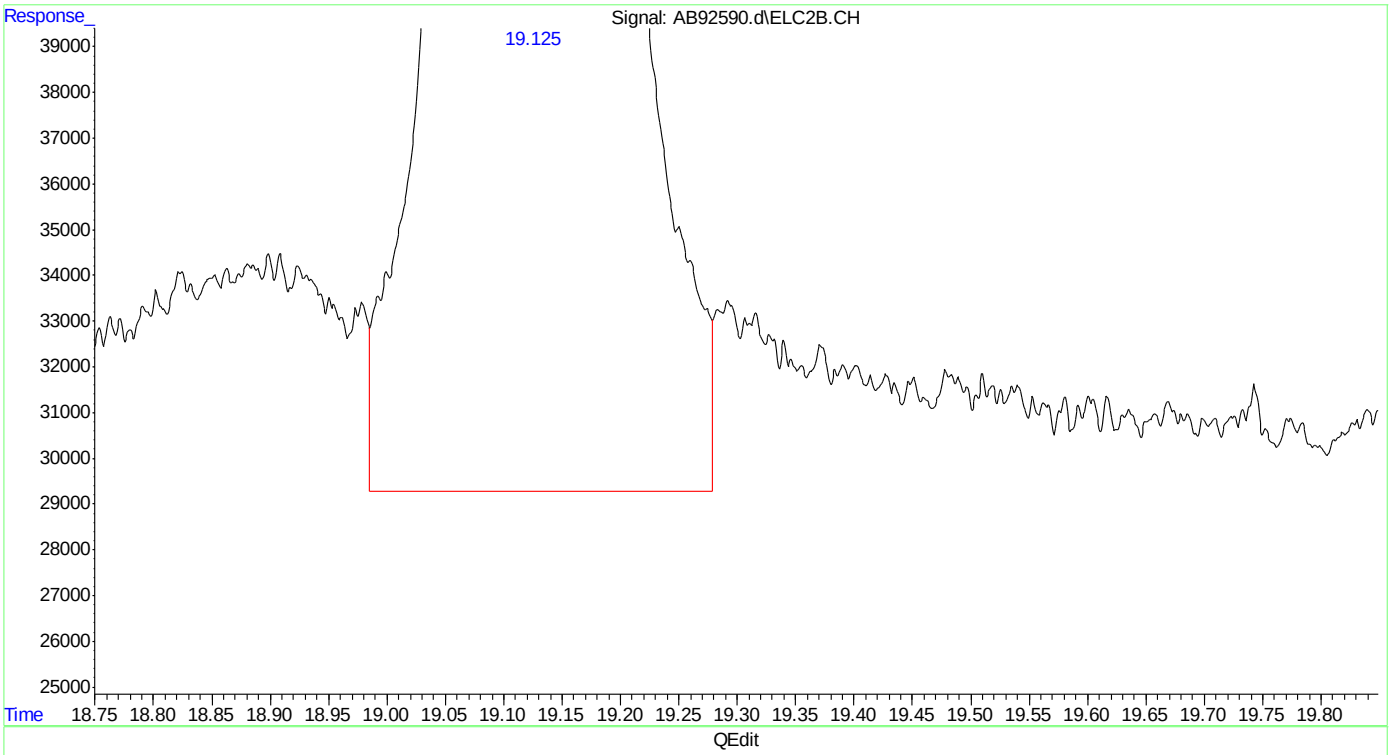
SGS ACCUTEST MC45678

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 Page: 1

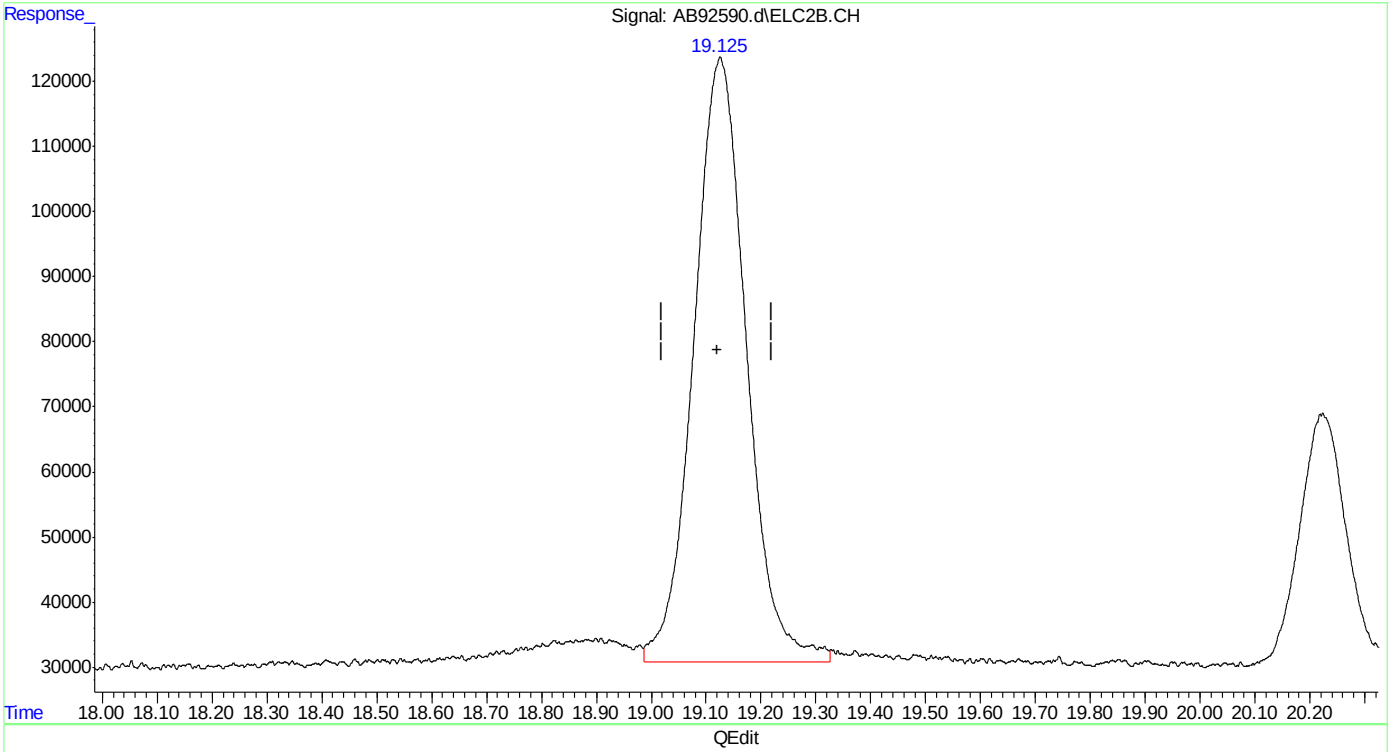
SGS ACCUTEST MC45678

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 MC45678

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

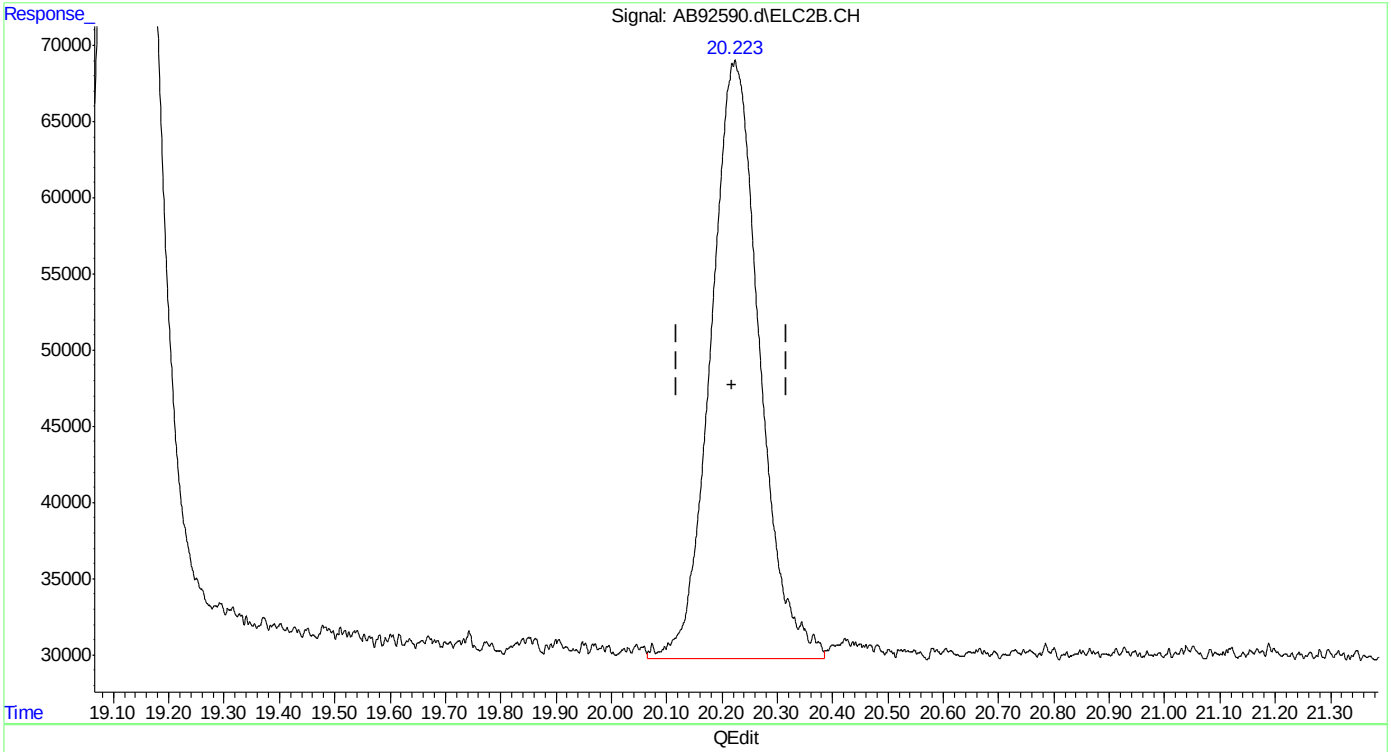
SGS ACCUTEST MC45678

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

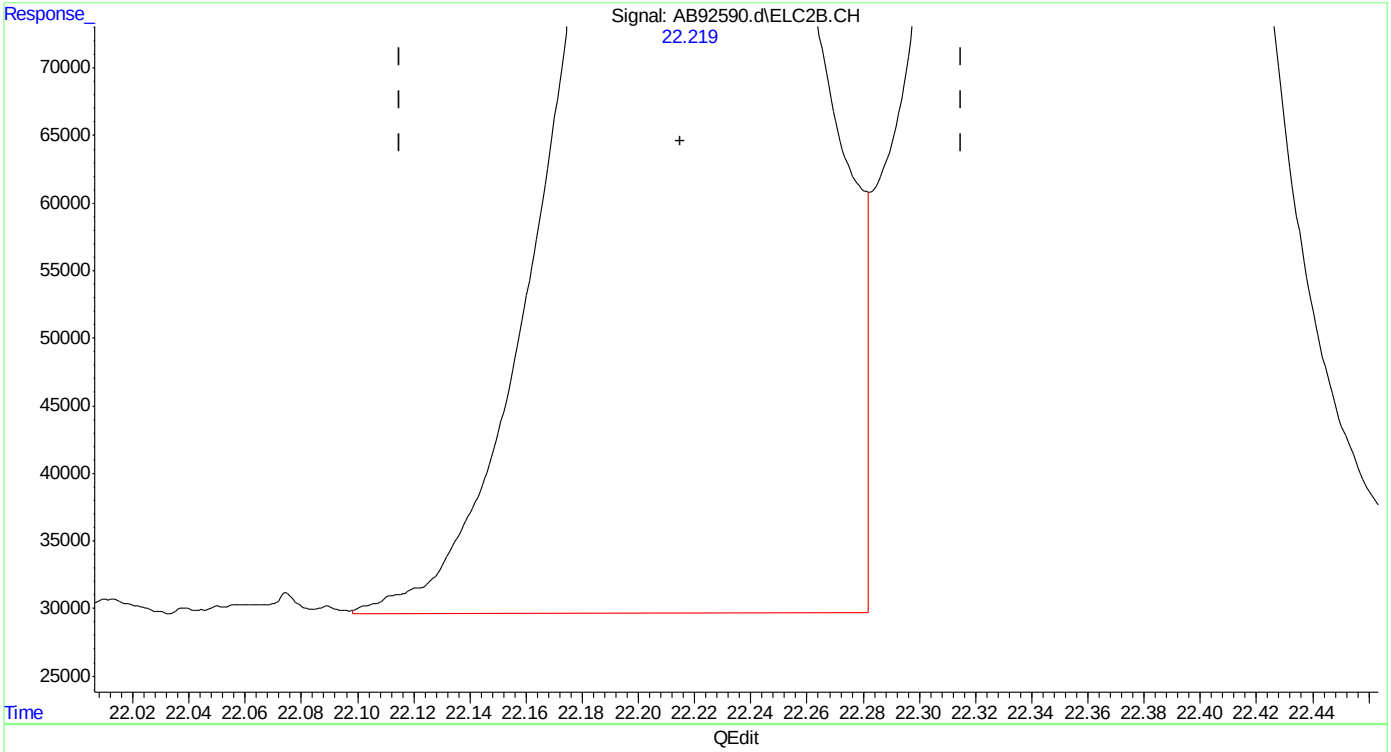
SGS ACCUTEST MC45678

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

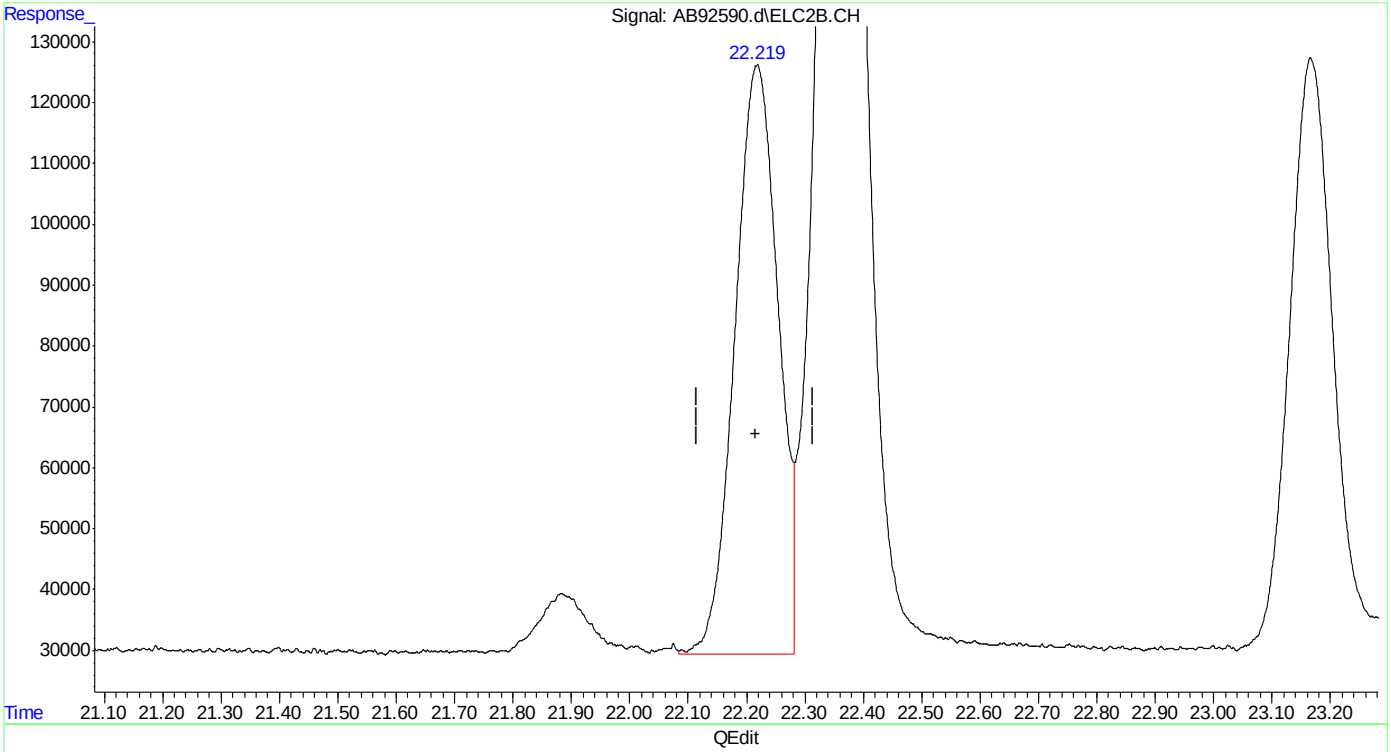
SGS ACCUTEST MC45678

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

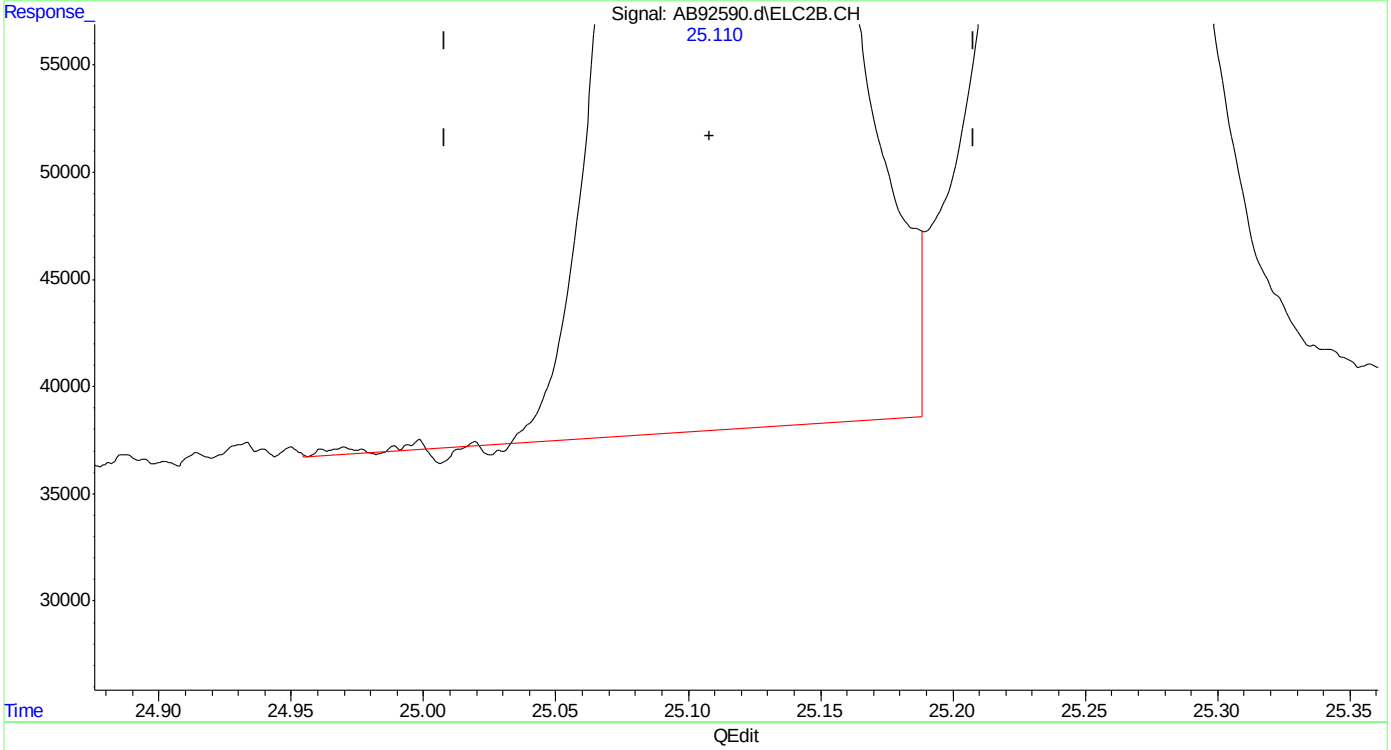
SGS ACCUTEST MC45678

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
ab160112vphmaster.M Tue Jan 12 12:46:24 2016

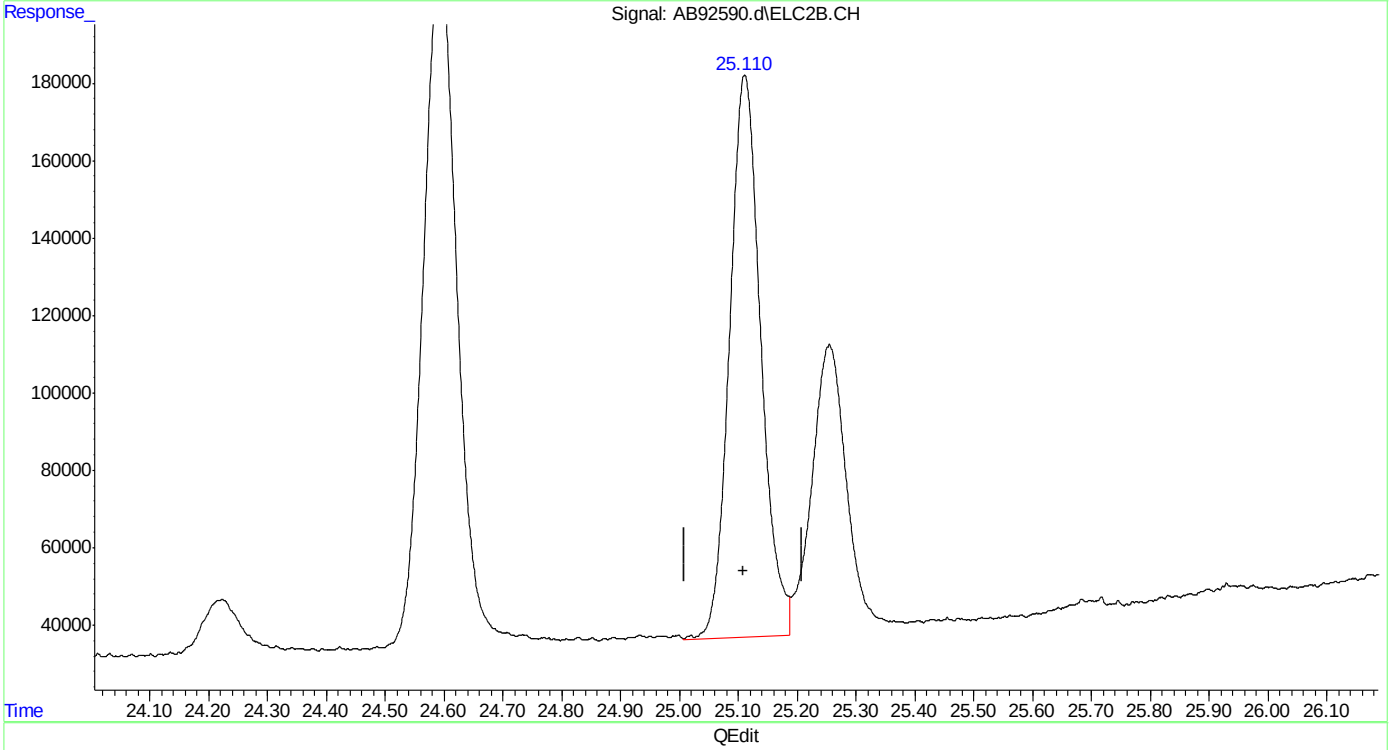
SGS ACCUTEST MC45678

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

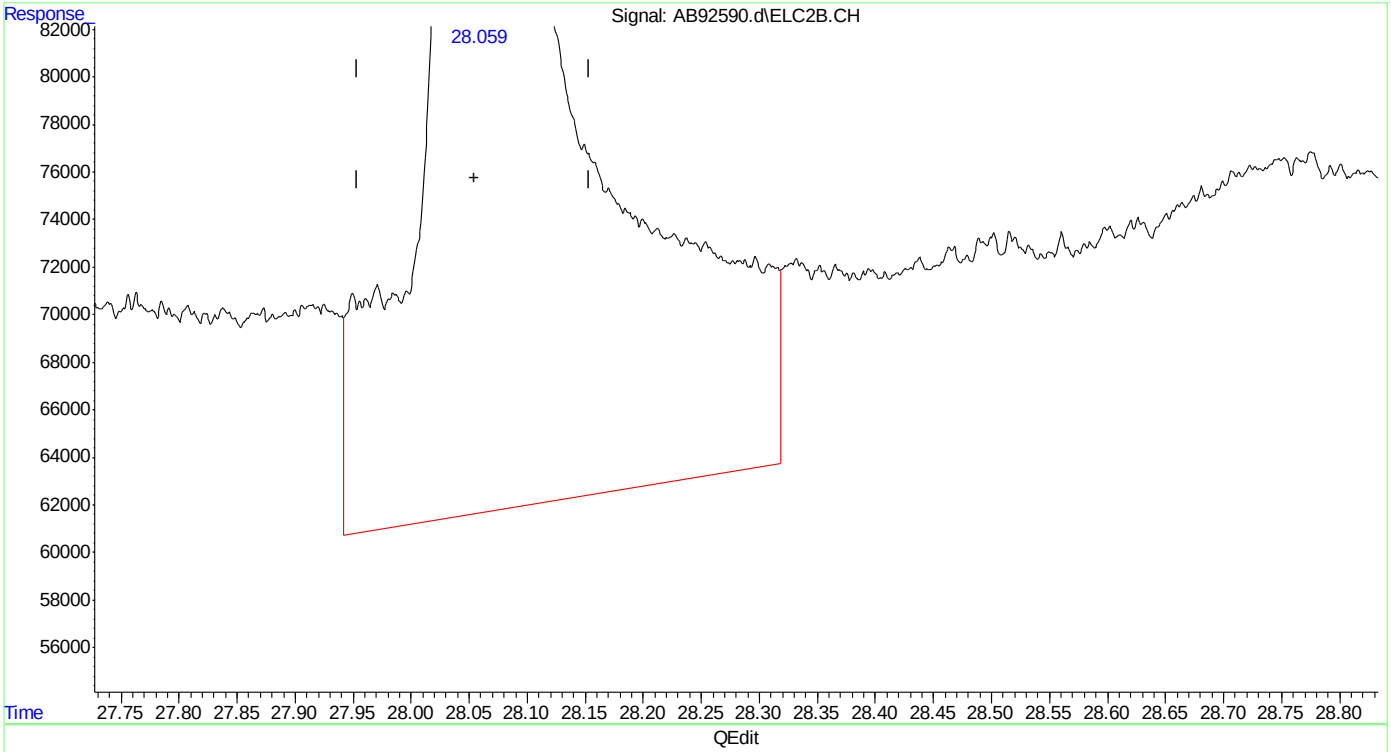
(+) = Expected Retention Time

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

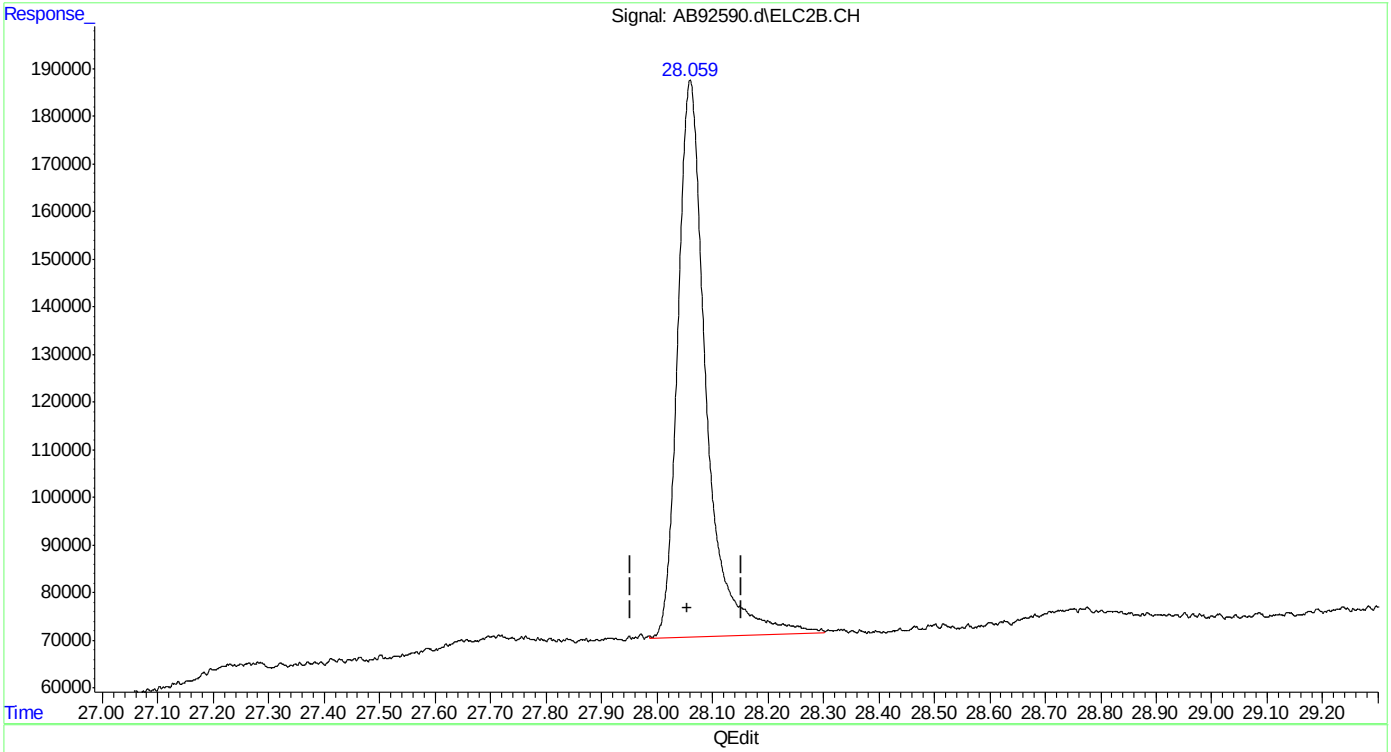
SGS ACCUTEST MC45678

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.

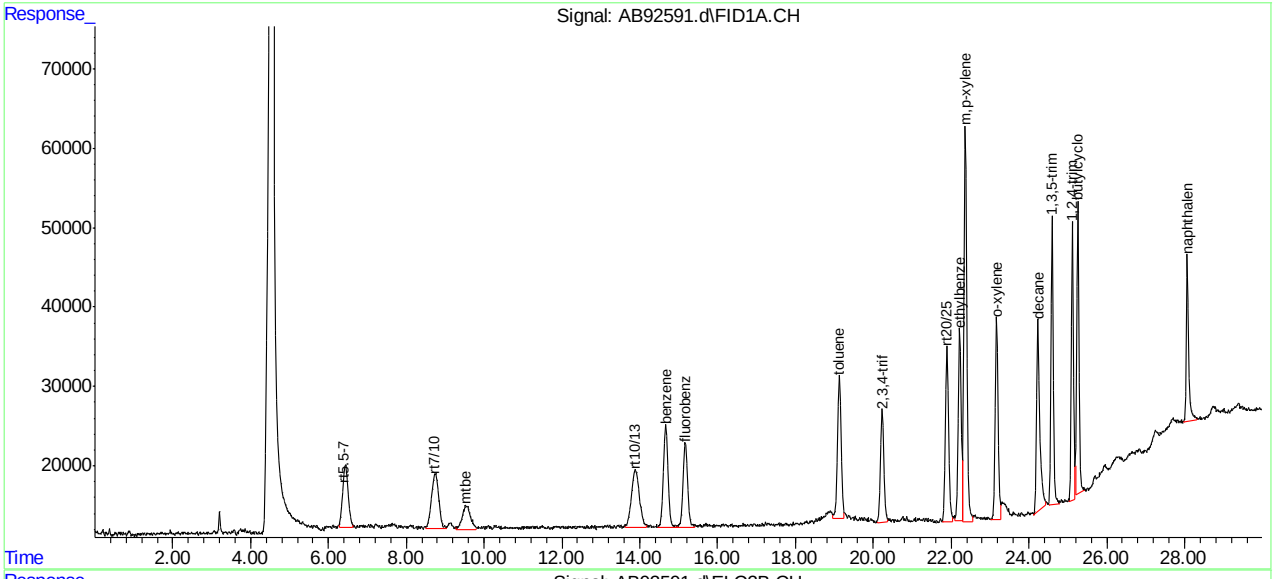
SGS ACCUTEST MC45678

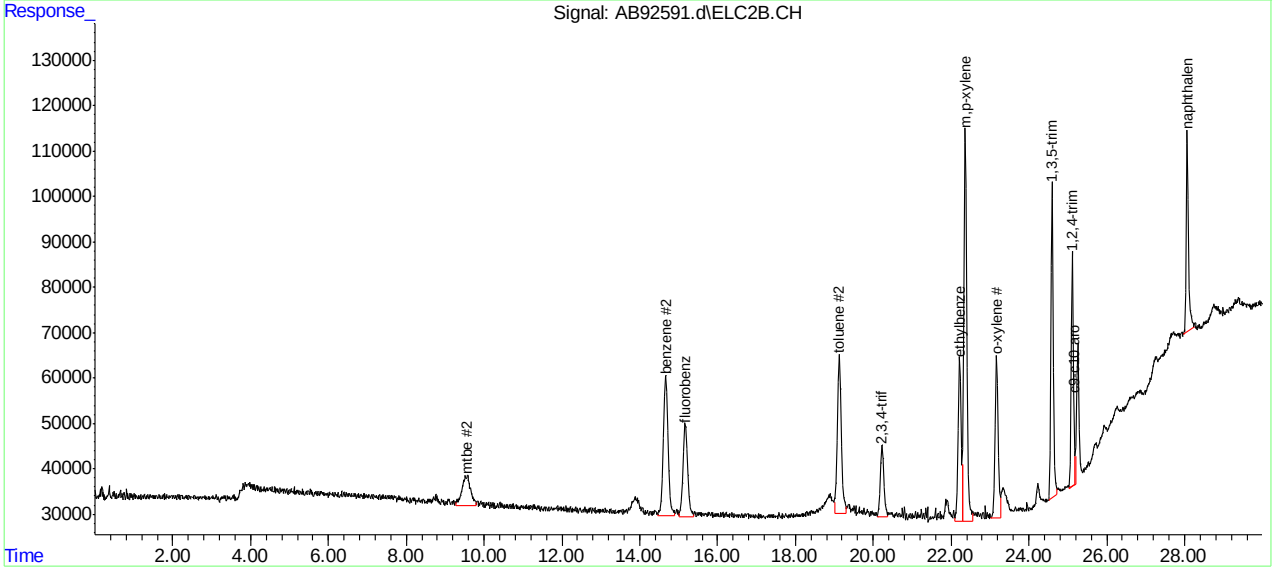
Quantitation Report (QT Reviewed)

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

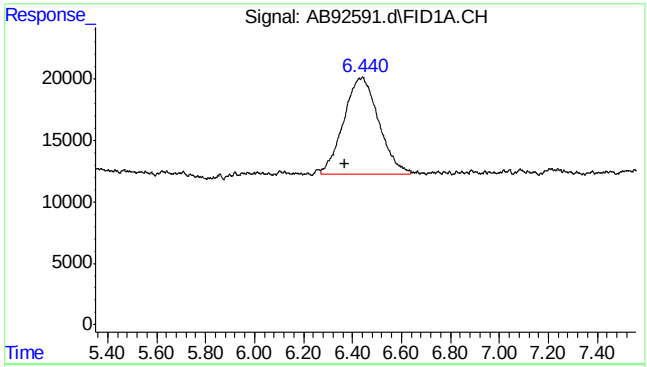
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



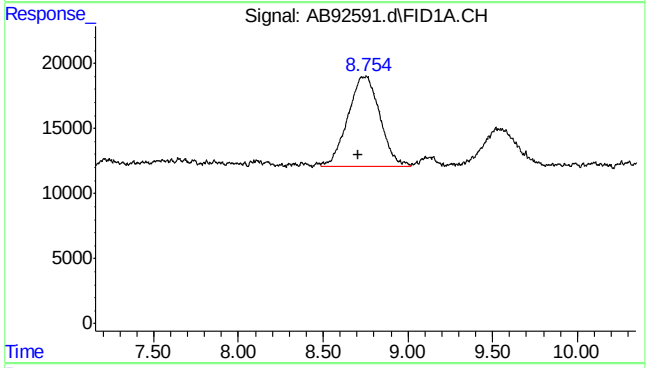


SGS ACCUTEST MC45678



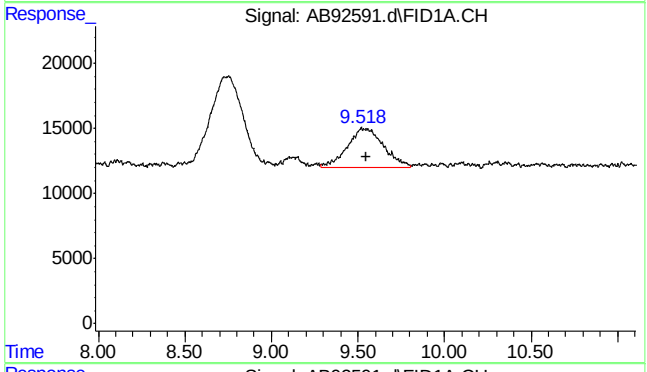
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 782177
Conc: 2.11 ppb m



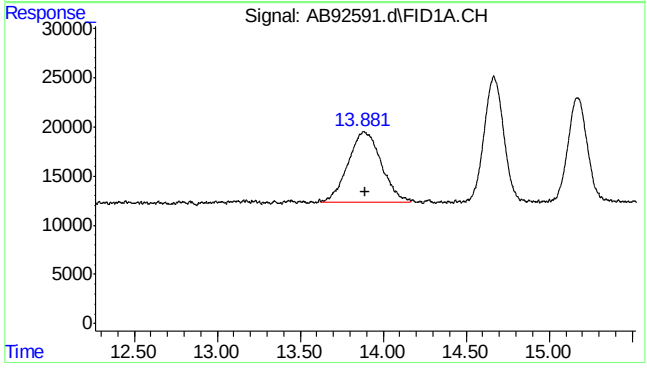
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 895663
Conc: 2.10 ppb m



#3 mtbe

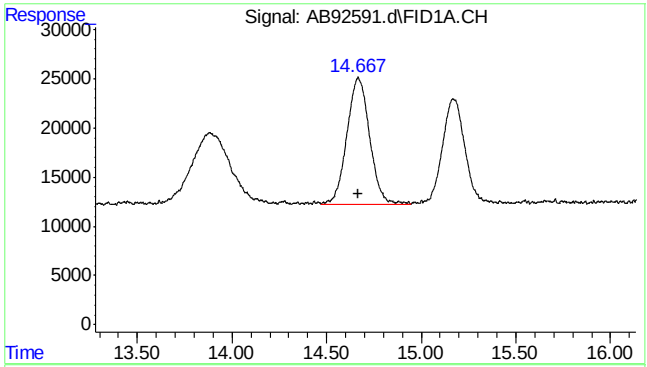
R.T.: 9.518 min
Delta R.T.: -0.027 min
Response: 440739
Conc: 2.00 ppb m



#4 rt10/13

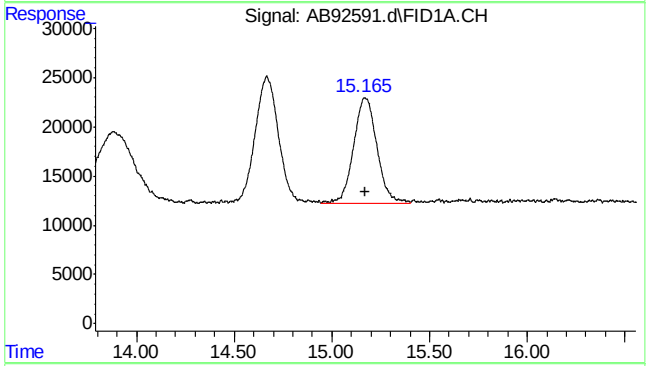
R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 1010297
Conc: 2.08 ppb m

SGS ACCUTEST MC45678



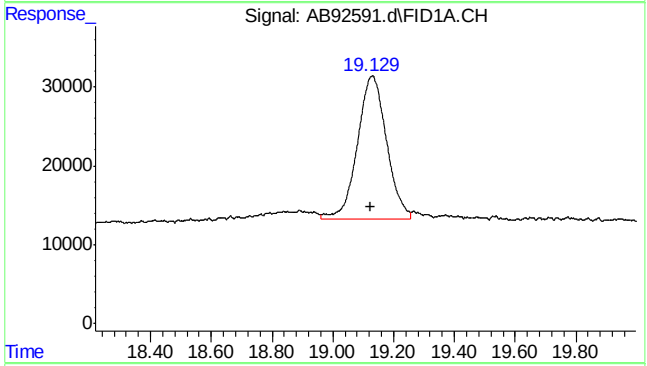
#5 benzene

R.T.: 14.667 min
Delta R.T.: 0.000 min
Response: 1091864
Conc: 1.96 ppb m



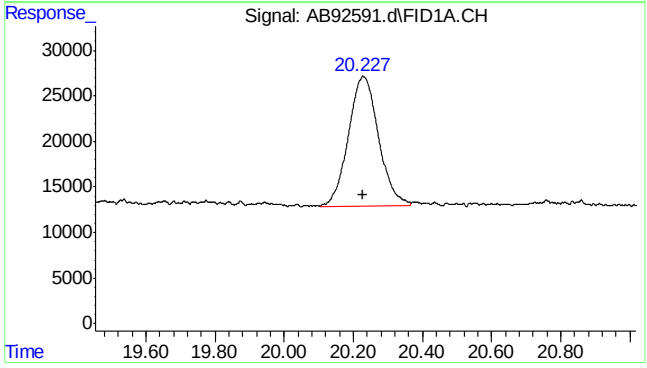
#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.007 min
Response: 882607
Conc: 2.01 ppb m



#8 toluene

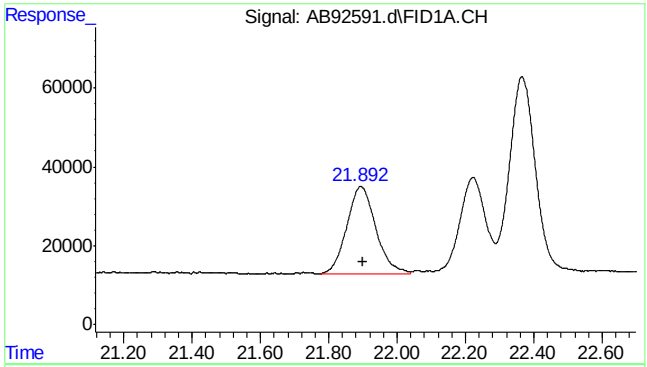
R.T.: 19.129 min
Delta R.T.: 0.003 min
Response: 1201255
Conc: 1.95 ppb m



#9 2,3,4-trifluorotoluene

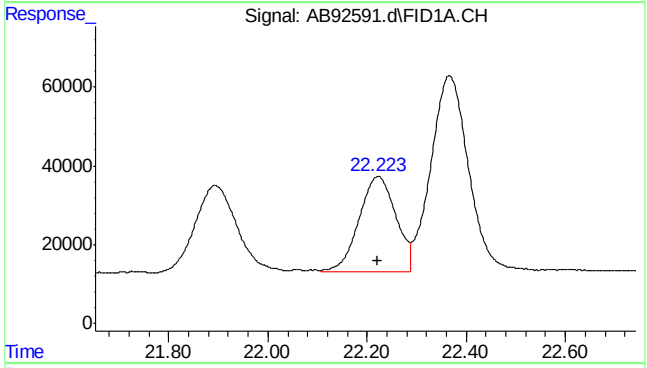
R.T.: 20.228 min
Delta R.T.: 0.002 min
Response: 858302
Conc: 2.08 ppb

SGS ACCUTEST MC45678



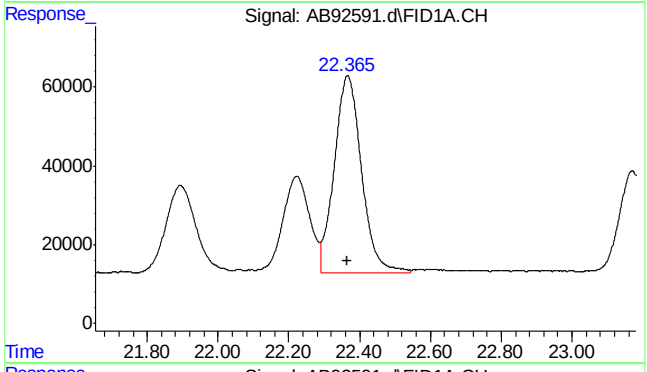
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 1295530
Conc: 2.11 ppb m



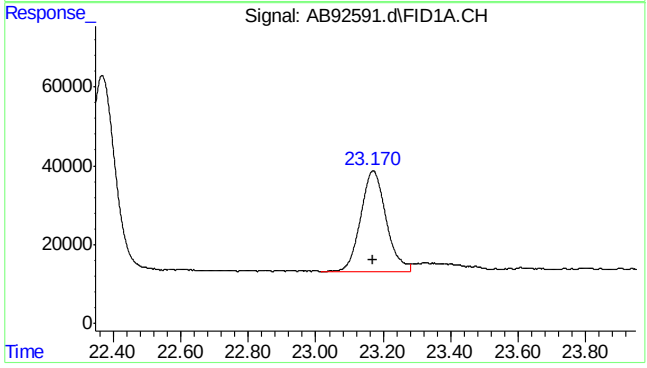
#13 ethylbenzene

R.T.: 22.223 min
Delta R.T.: 0.003 min
Response: 1269420
Conc: 1.94 ppb m



#14 m,p-xylene

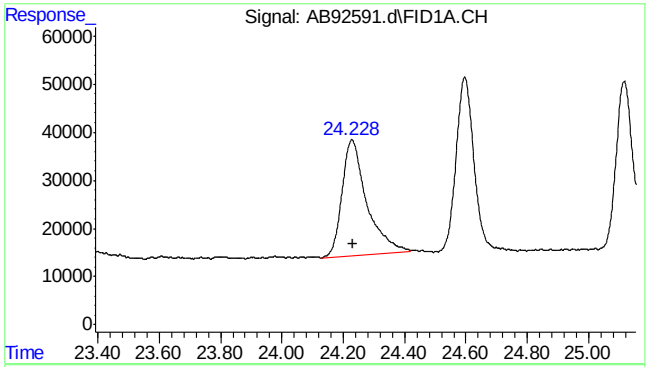
R.T.: 22.365 min
Delta R.T.: 0.001 min
Response: 2661036
Conc: 3.91 ppb m



#15 o-xylene

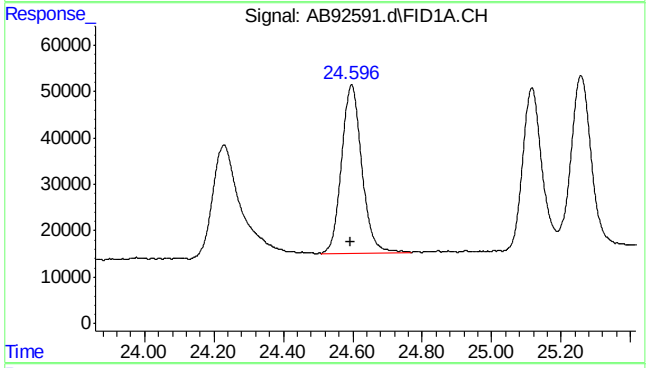
R.T.: 23.170 min
Delta R.T.: 0.002 min
Response: 1342437
Conc: 1.97 ppb m

SGS ACCUTEST MC45678



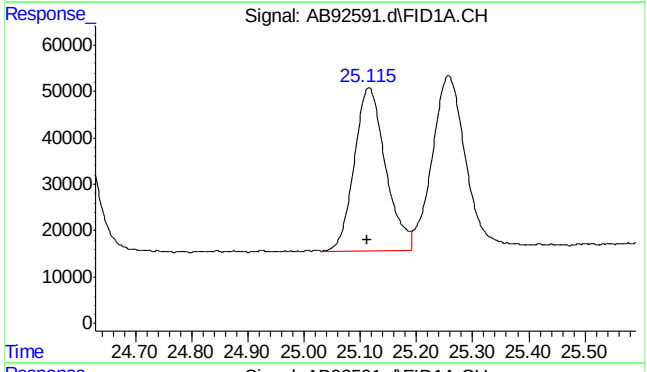
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 1363143
Conc: 2.17 ppb m



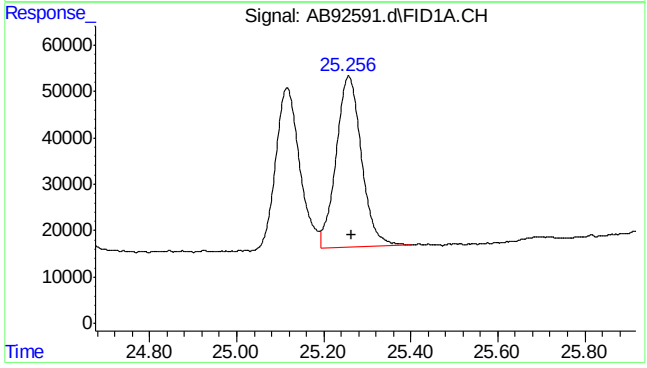
#17 1,3,5-trimethylbenzene

R.T.: 24.596 min
Delta R.T.: 0.000 min
Response: 1485425
Conc: 2.07 ppb m



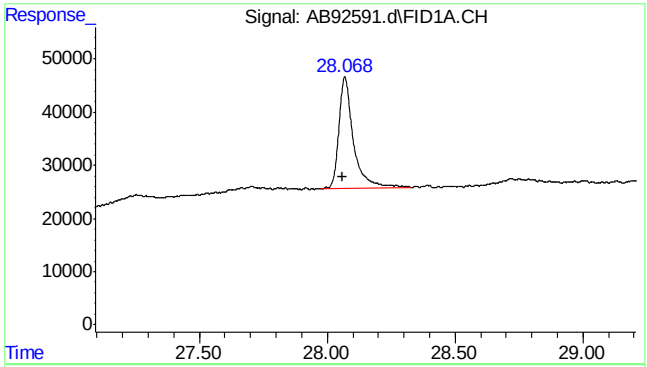
#18 1,2,4-trimethylbenzene

R.T.: 25.115 min
Delta R.T.: 0.002 min
Response: 1358128
Conc: 1.98 ppb m



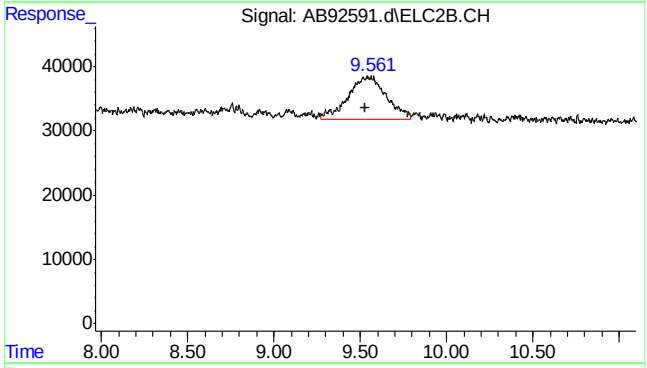
#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 1487308
Conc: 2.22 ppb m



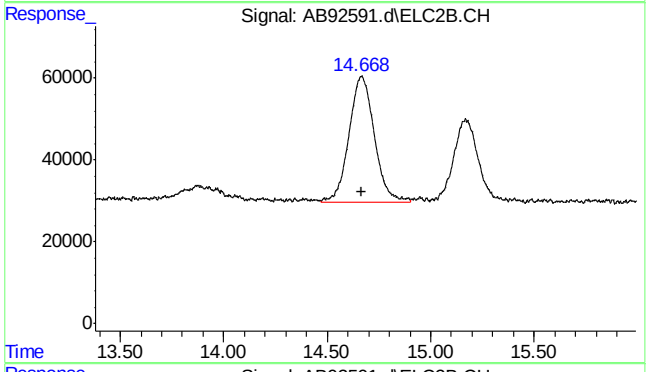
#20 naphthalene

R.T.: 28.068 min
Delta R.T.: 0.006 min
Response: 834686
Conc: 2.23 ppb m



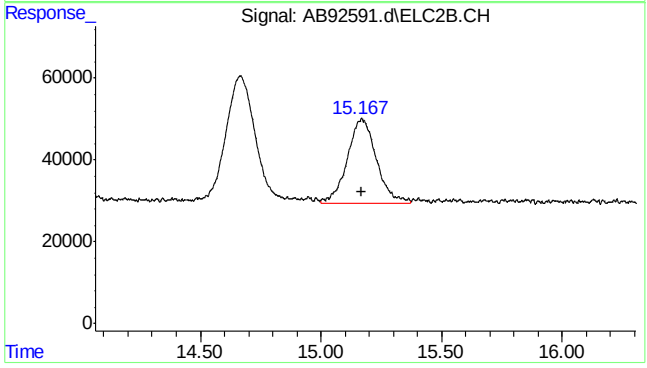
#23 mtbe #2

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

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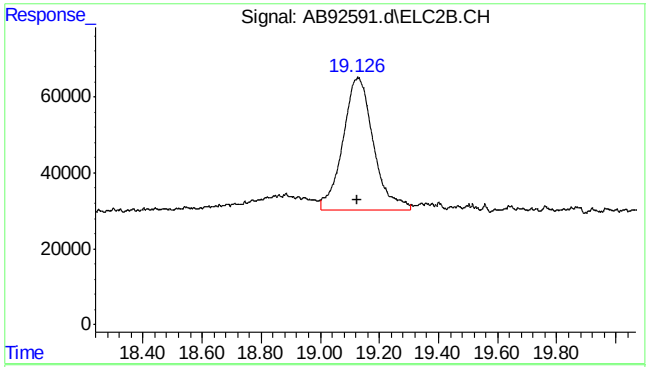
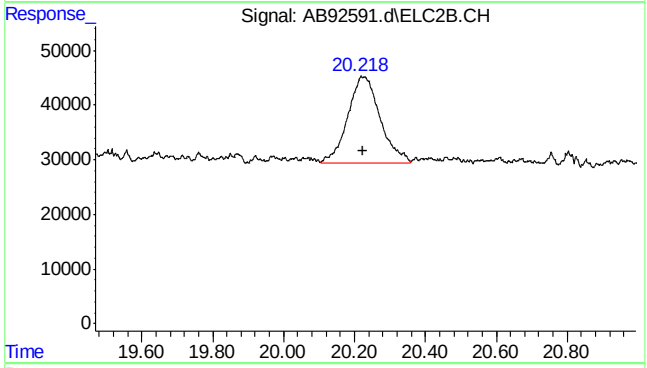


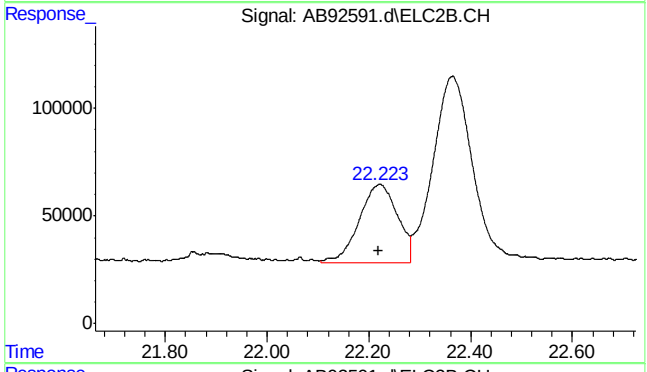
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 2524690
Conc: 2.07 ppb m



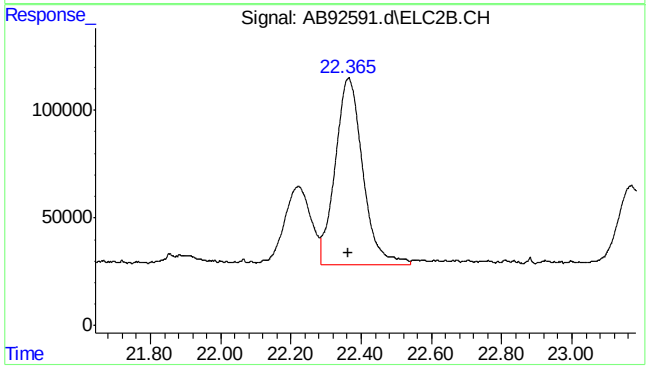
#27 2,3,4-trifluorotoluene #2

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

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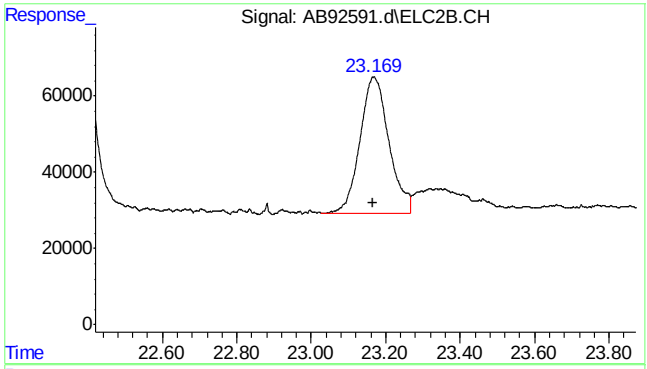
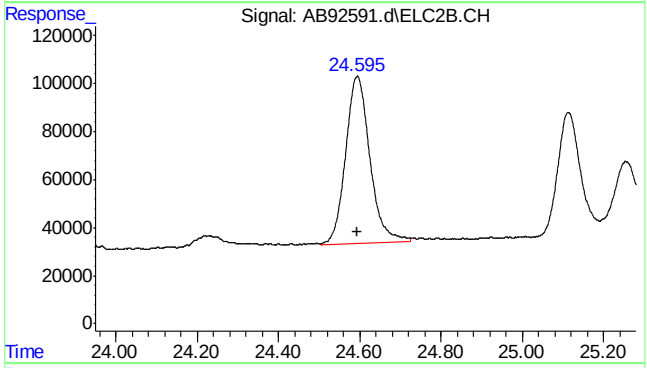


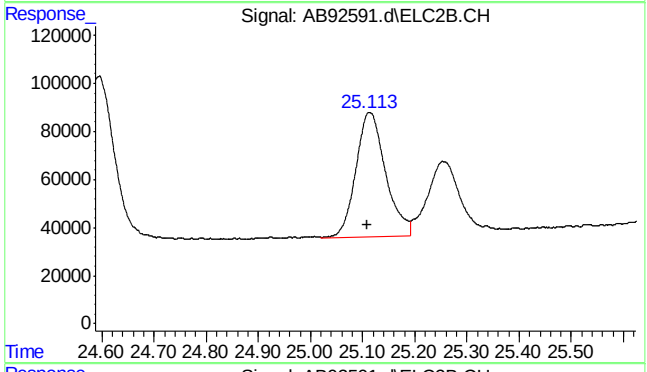
#30 o-xylene #2

R.T.: 23.169 min
Delta R.T.: 0.002 min
Response: 1948764
Conc: 1.93 ppb m



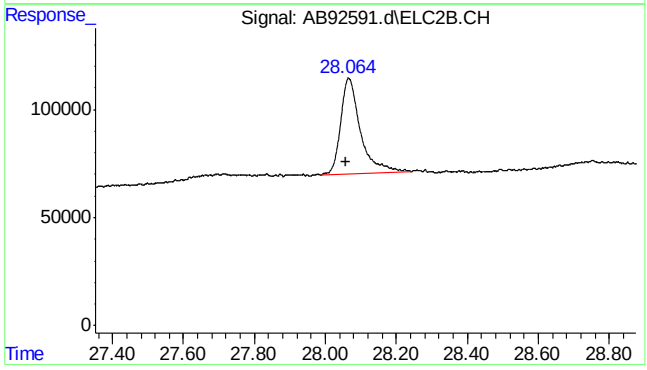
#31 1,3,5-trimethylbenzene #2

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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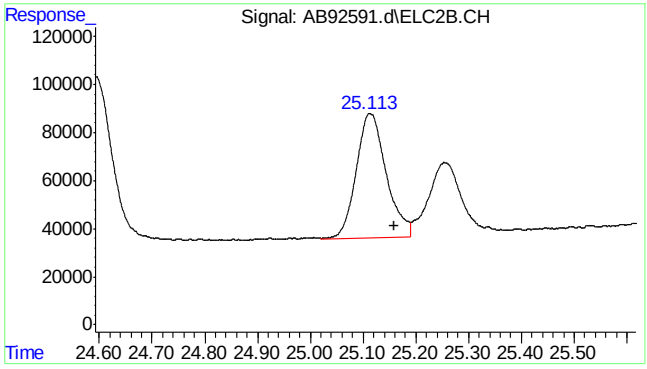


#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.160 min
Delta R.T.:	0.000 min
Response:	2046058
Conc:	1.92 ppb m

7.5.8

7

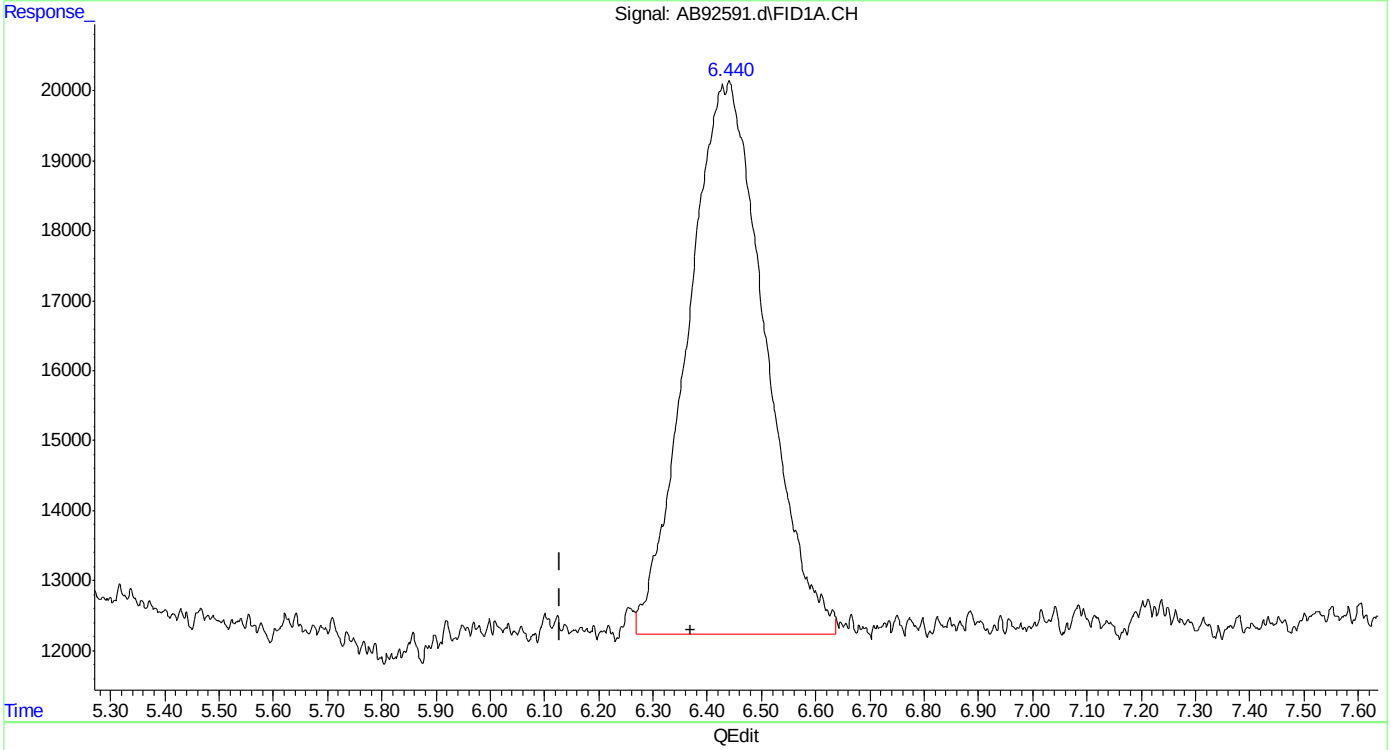
SGS ACCUTEST MC45678

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

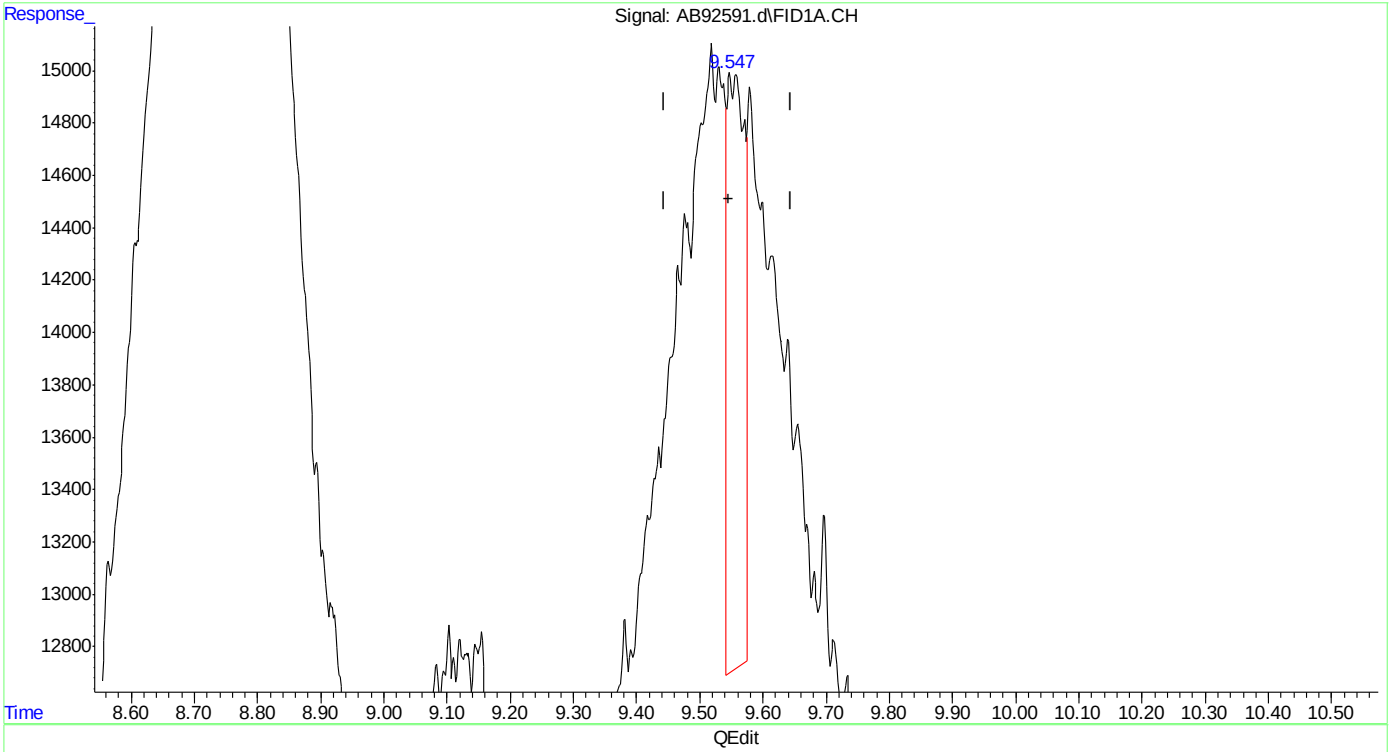
(+) = Expected Retention Time

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

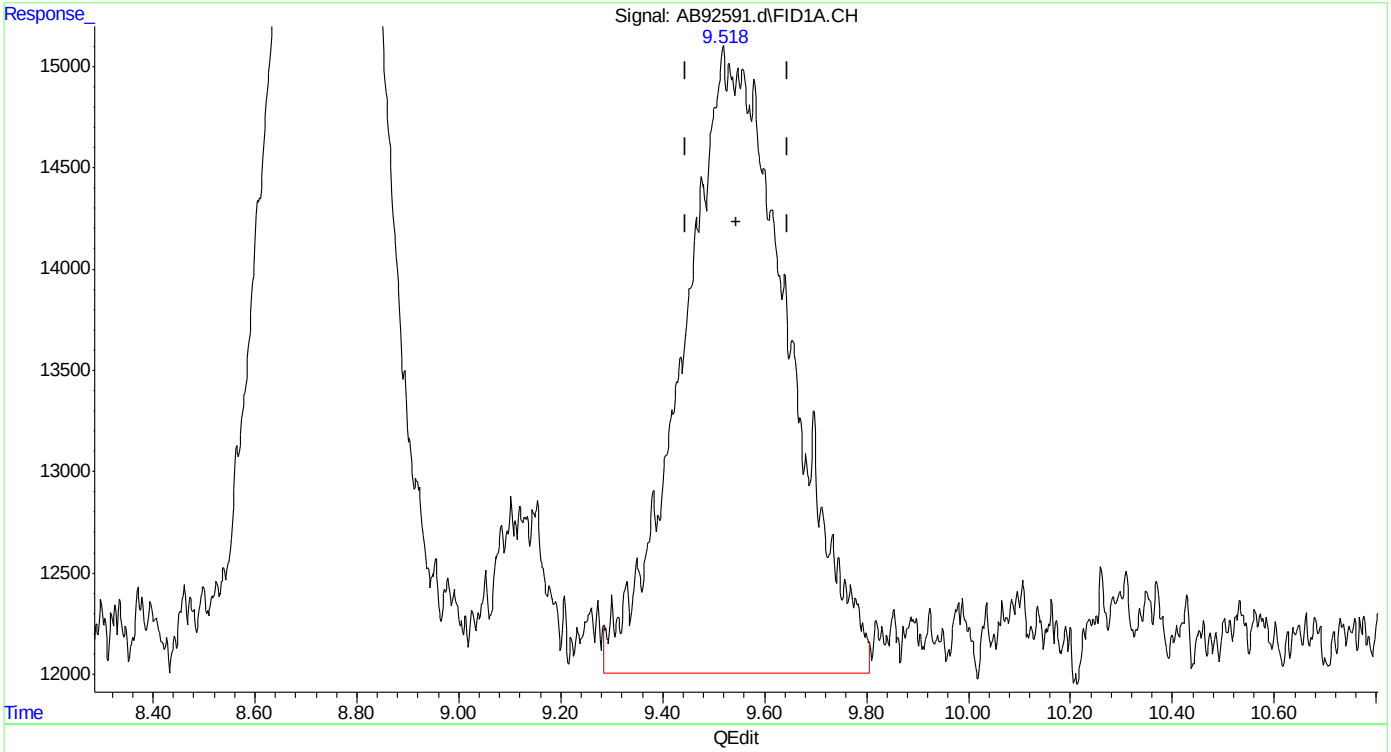
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:09 2016 Page: 1

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

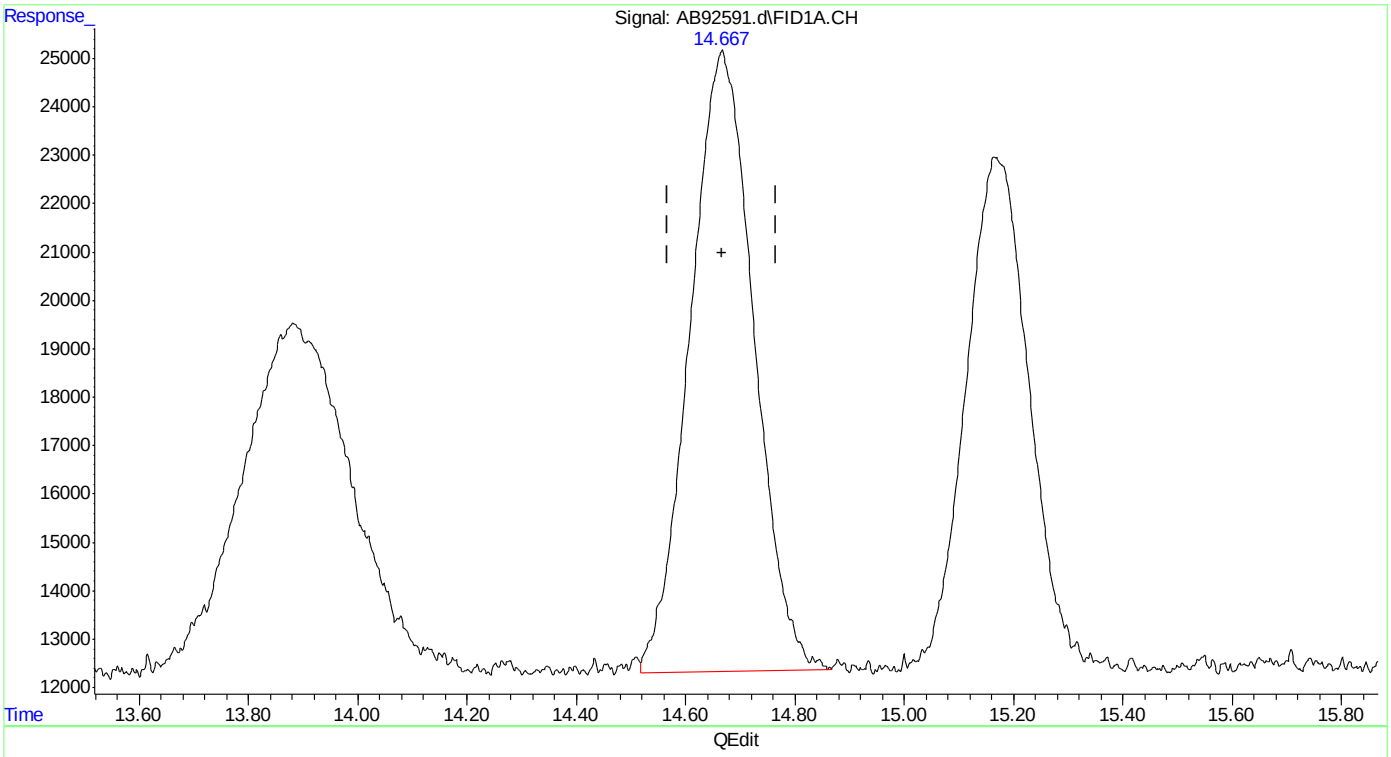
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:57 2016

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

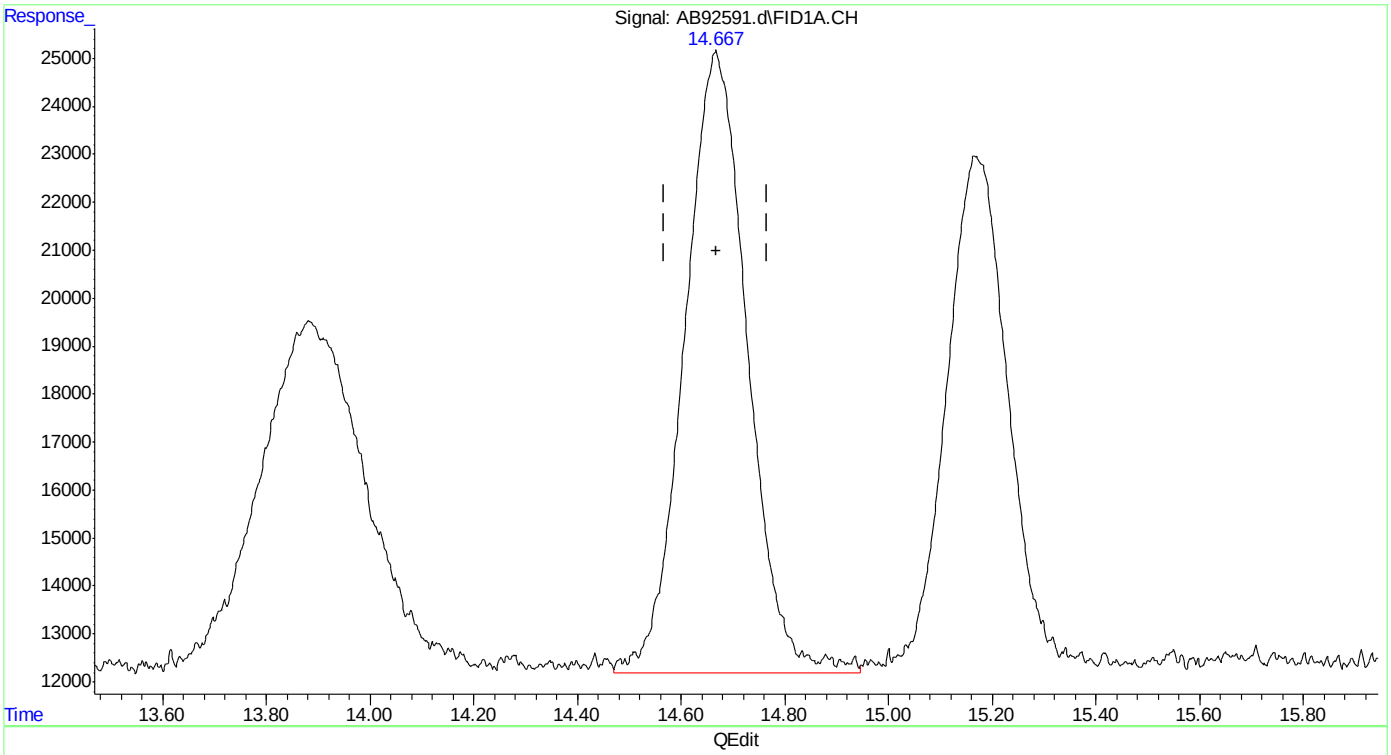
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:21 2016 Page: 1

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 :



(5) benzene
14.667min 1.956 ppb m
response 1091864

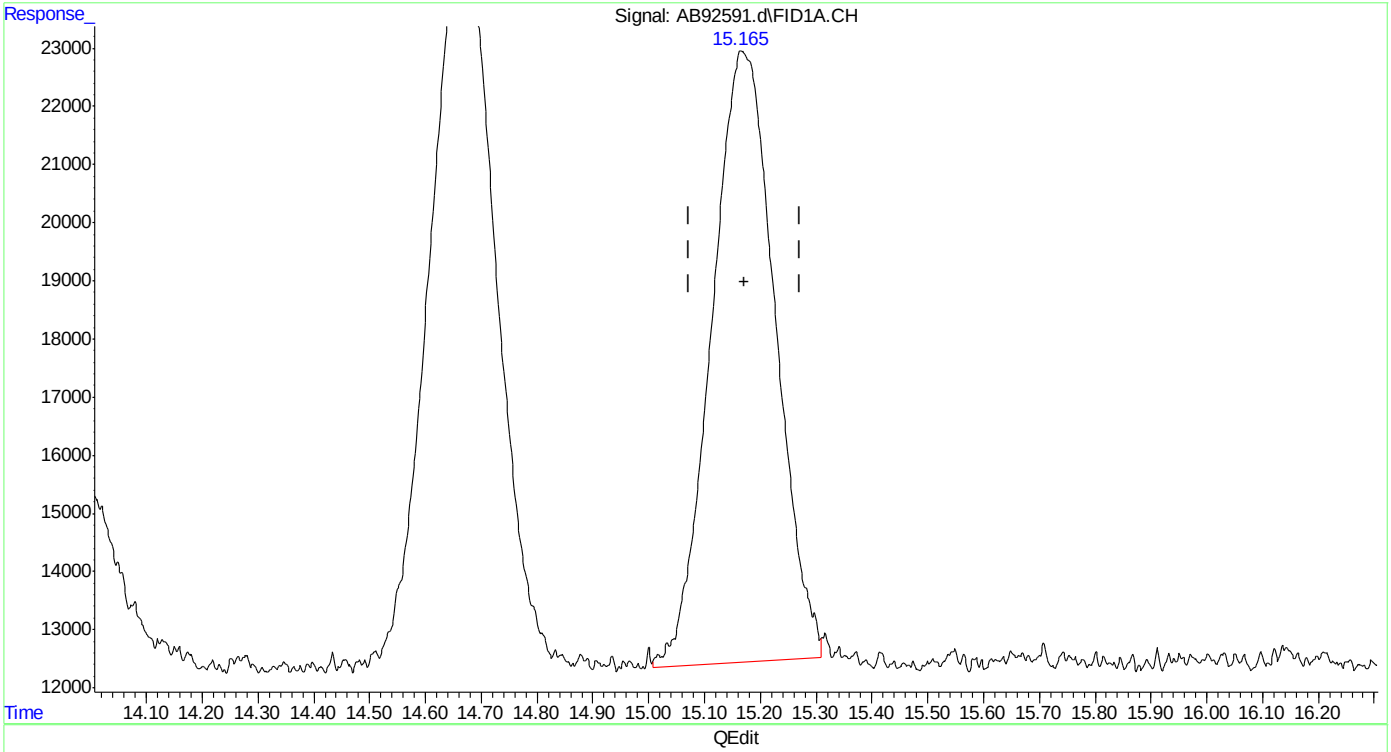
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:48 2016

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 :



(6) fluorobenzene (s)
15.166min 1.897 ppb
response 833597

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:51 2016

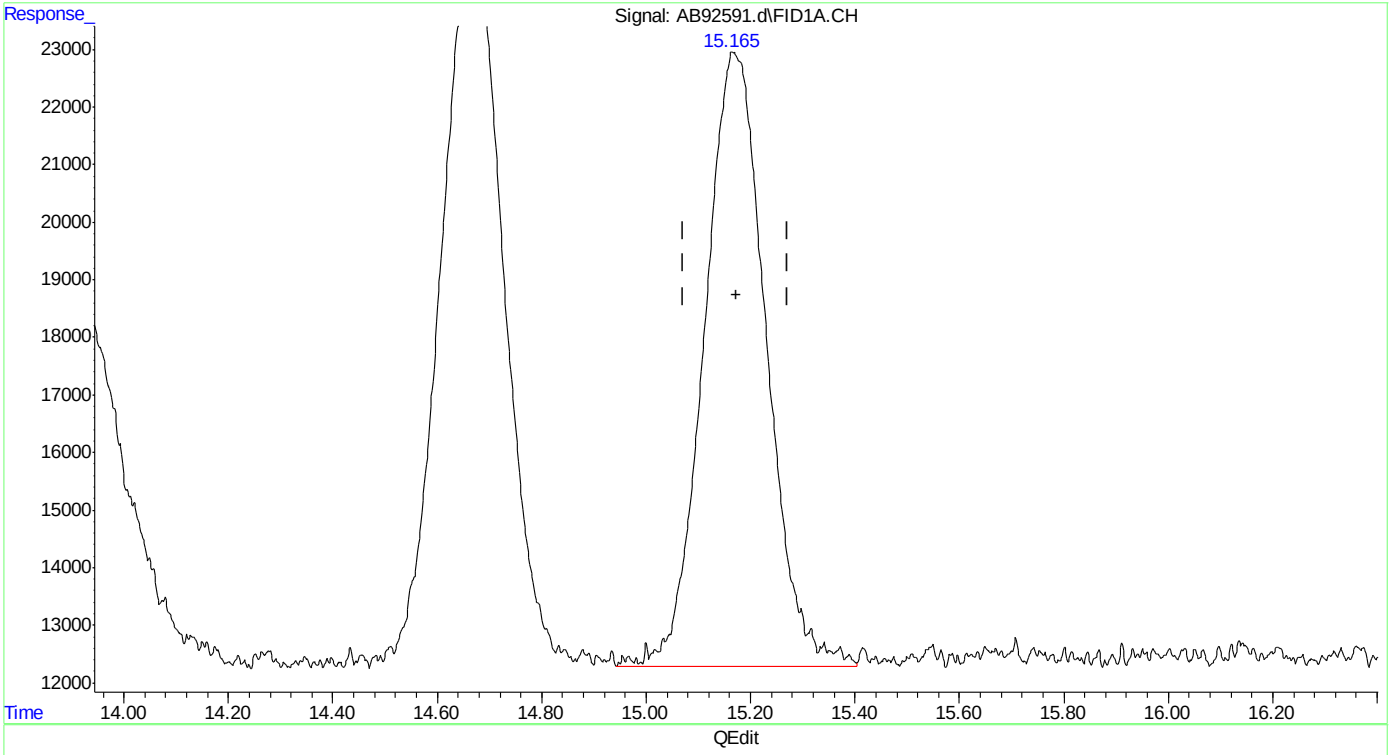
SGS ACCUTEST MC45678

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

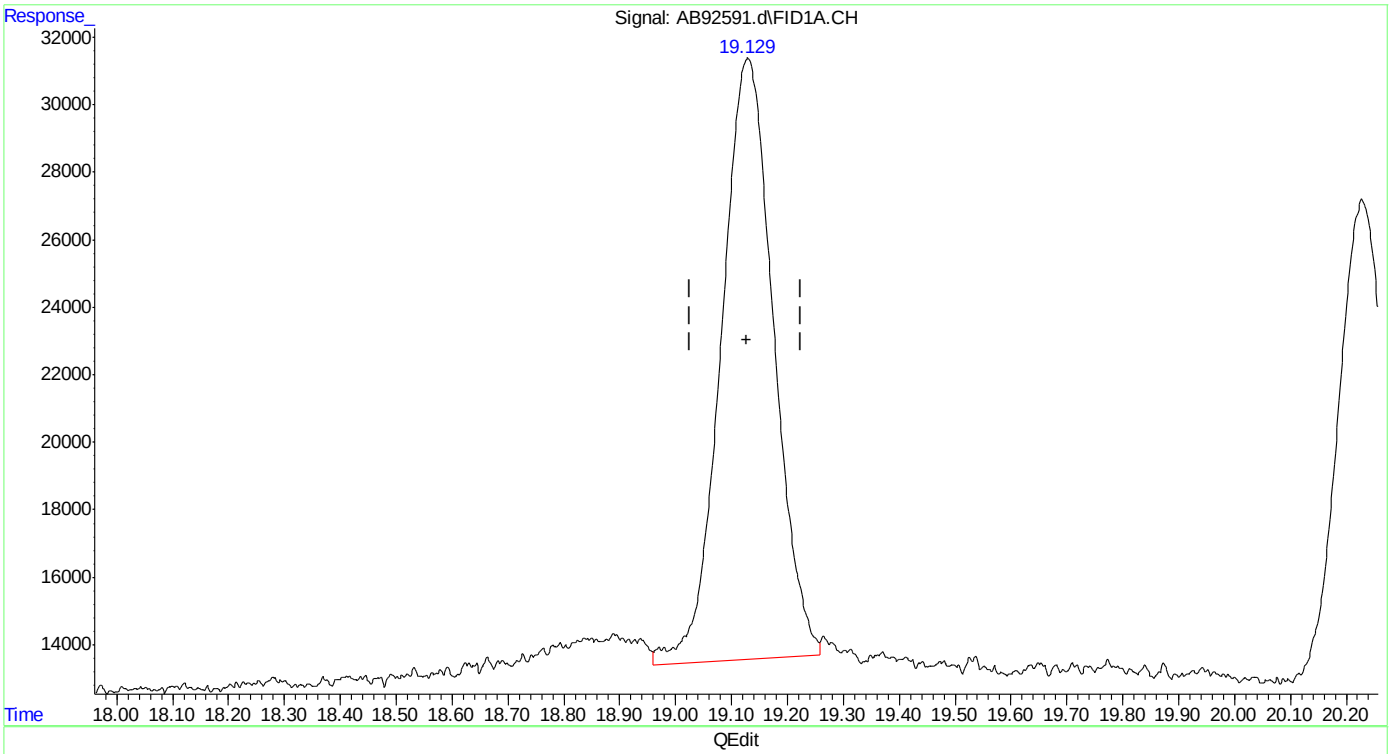
SGS ACCUTEST MC45678

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

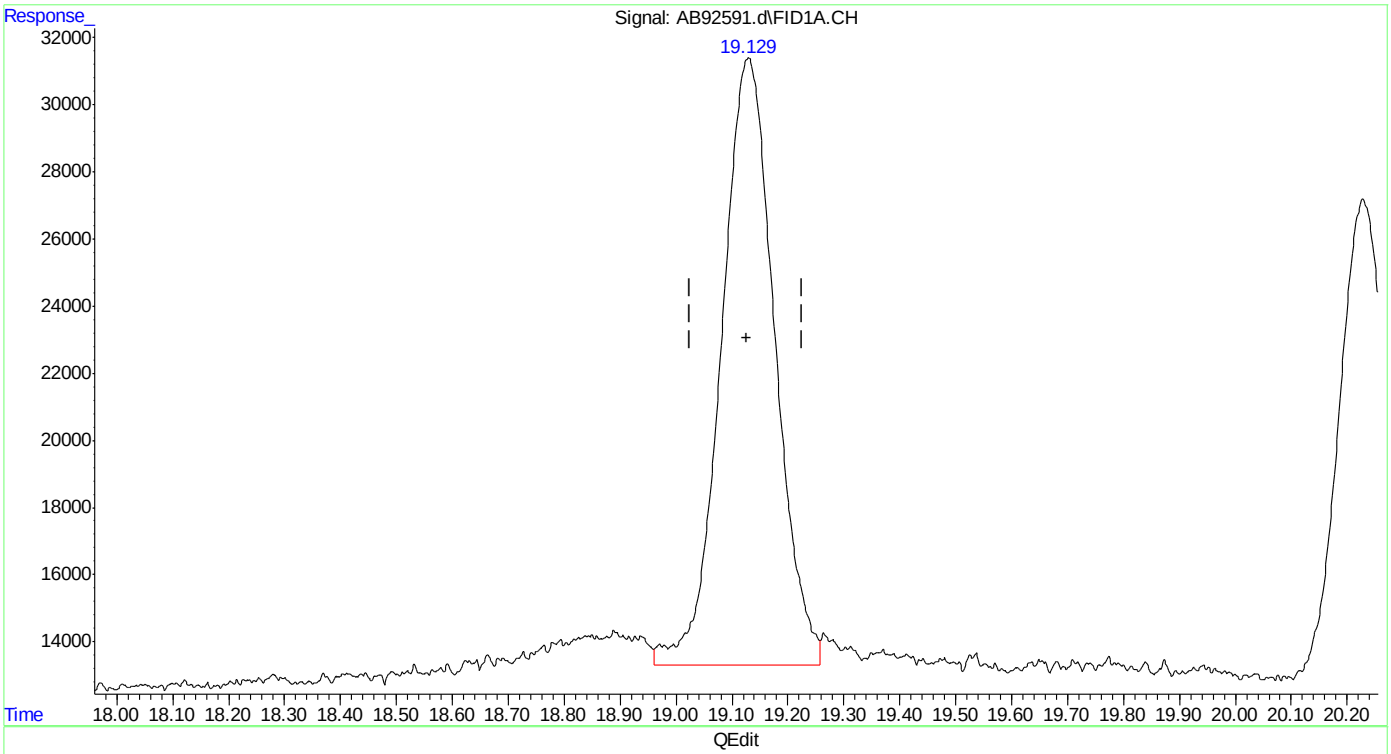
SGS ACCUTEST MC45678

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

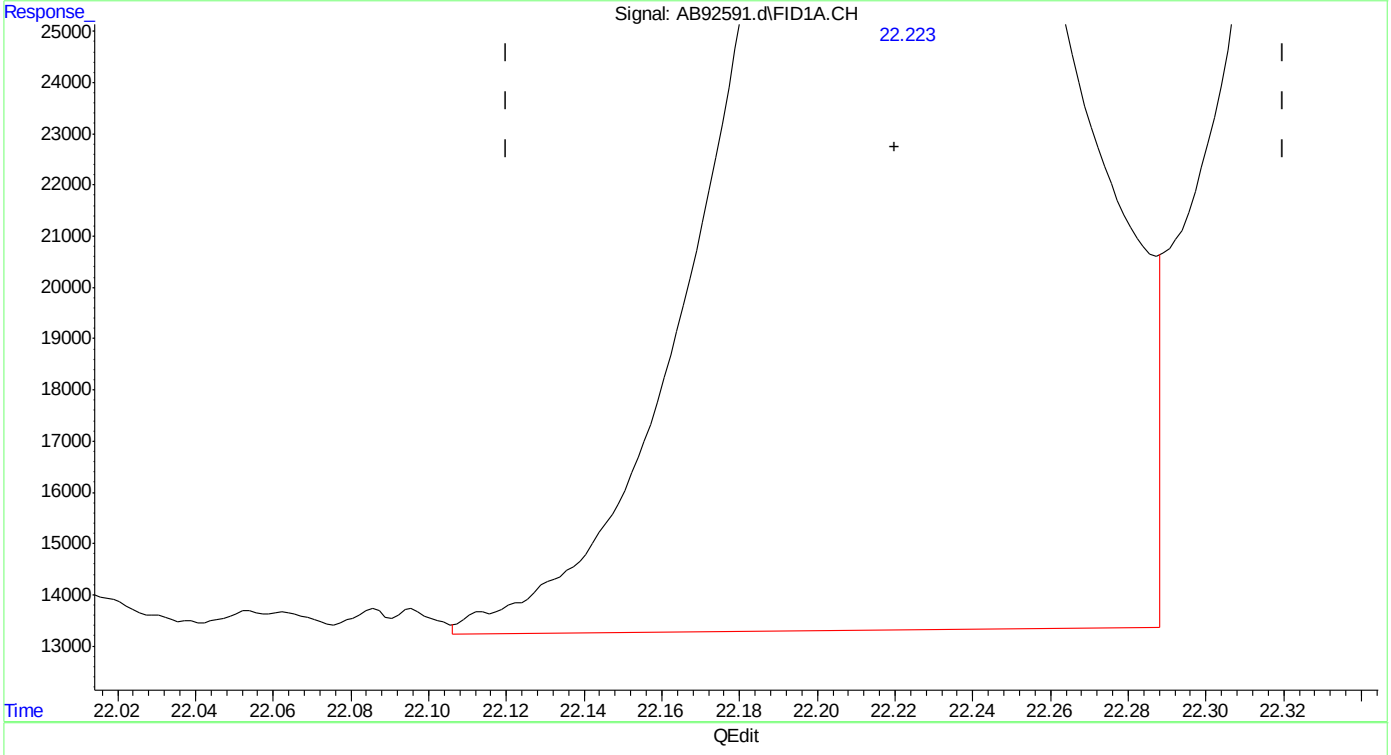
SGS ACCUTEST MC45678

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

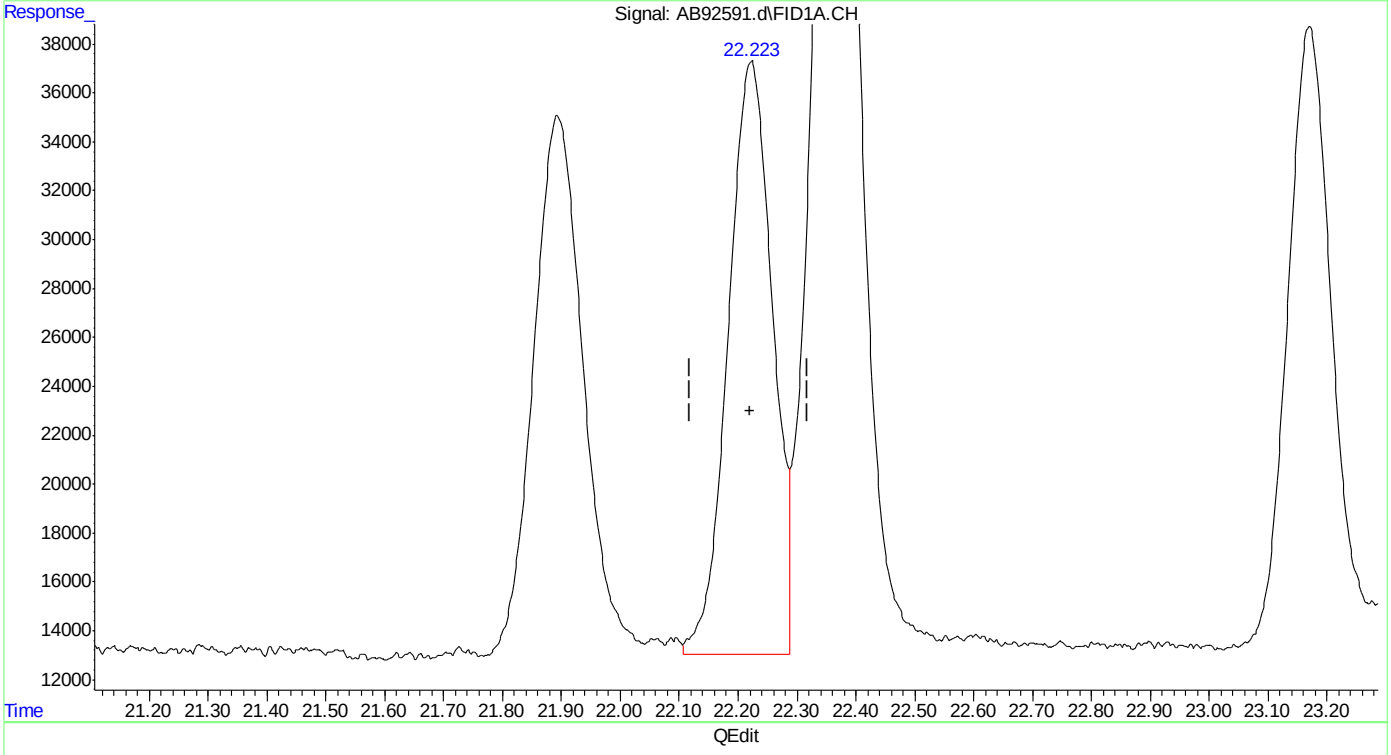
(+) = Expected Retention Time

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

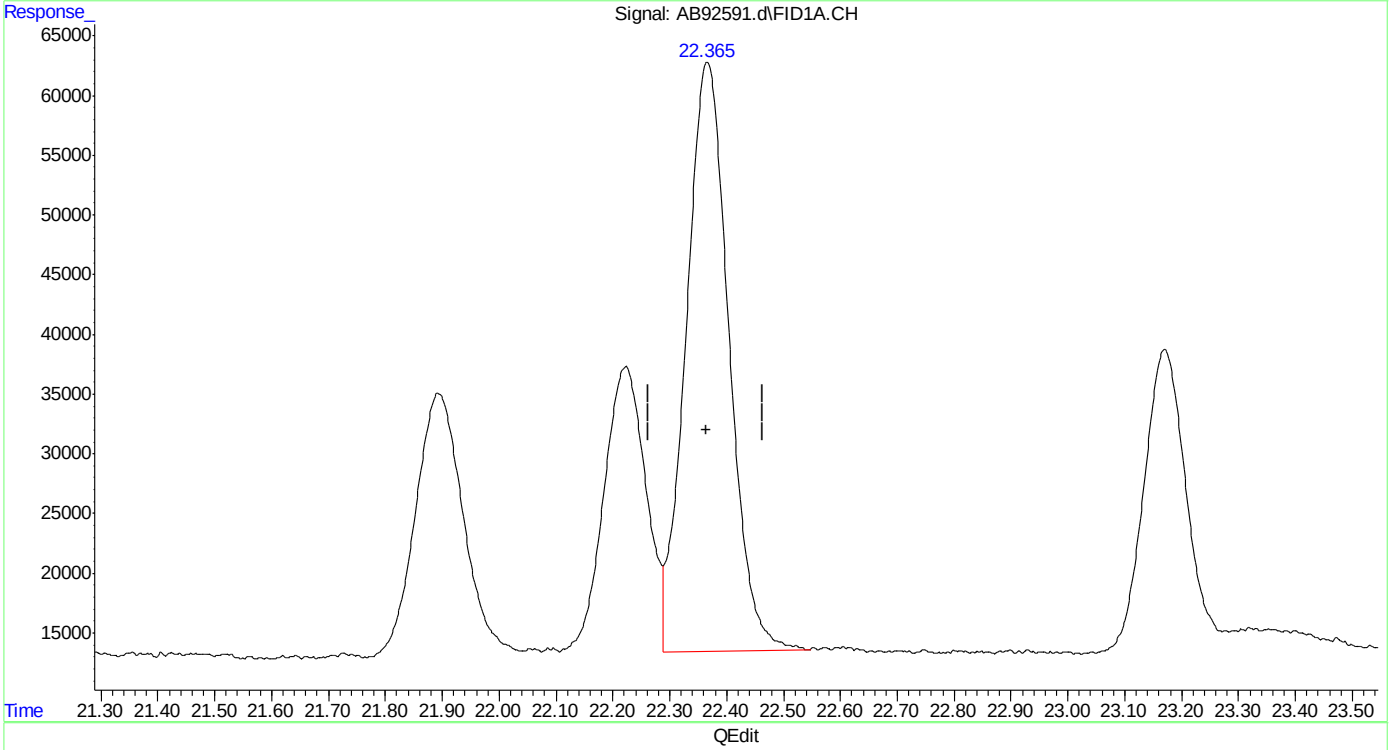
SGS ACCUTEST MC45678

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

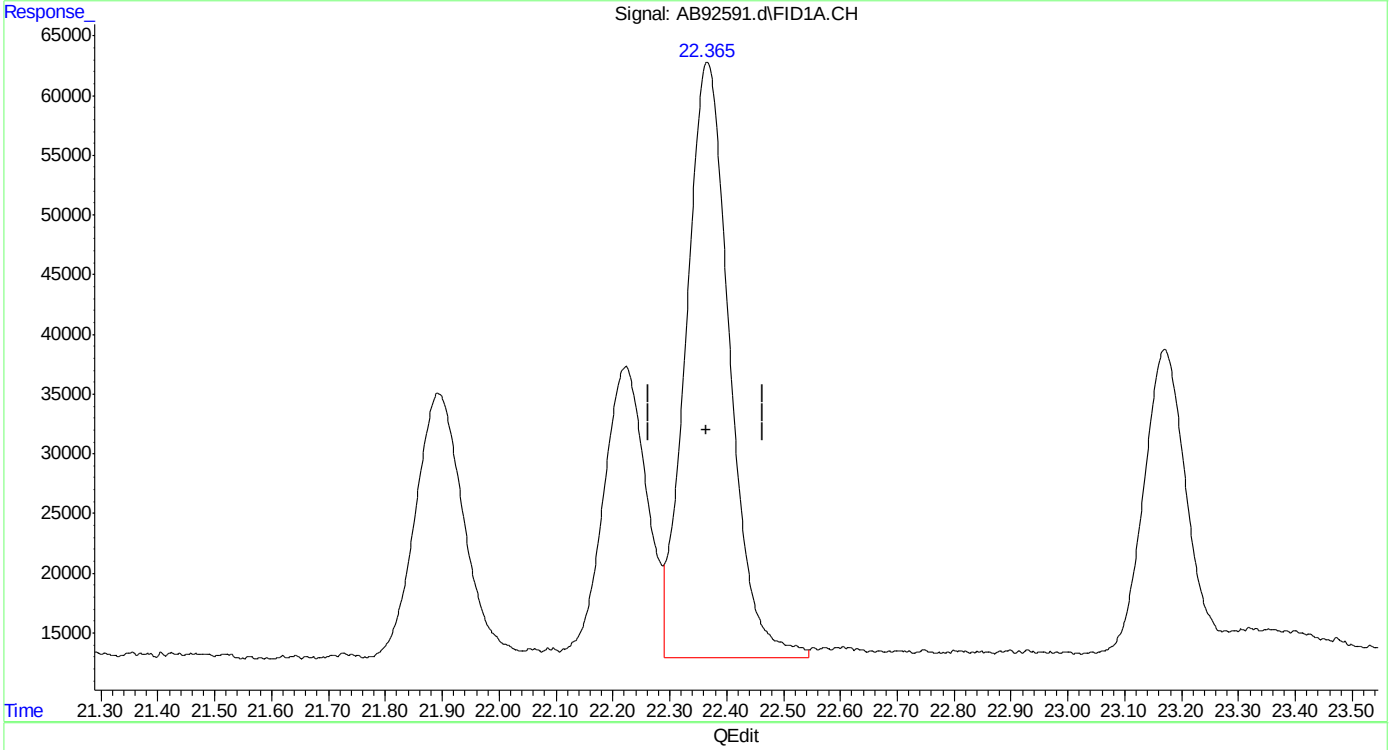
SGS ACCUTEST MC45678

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

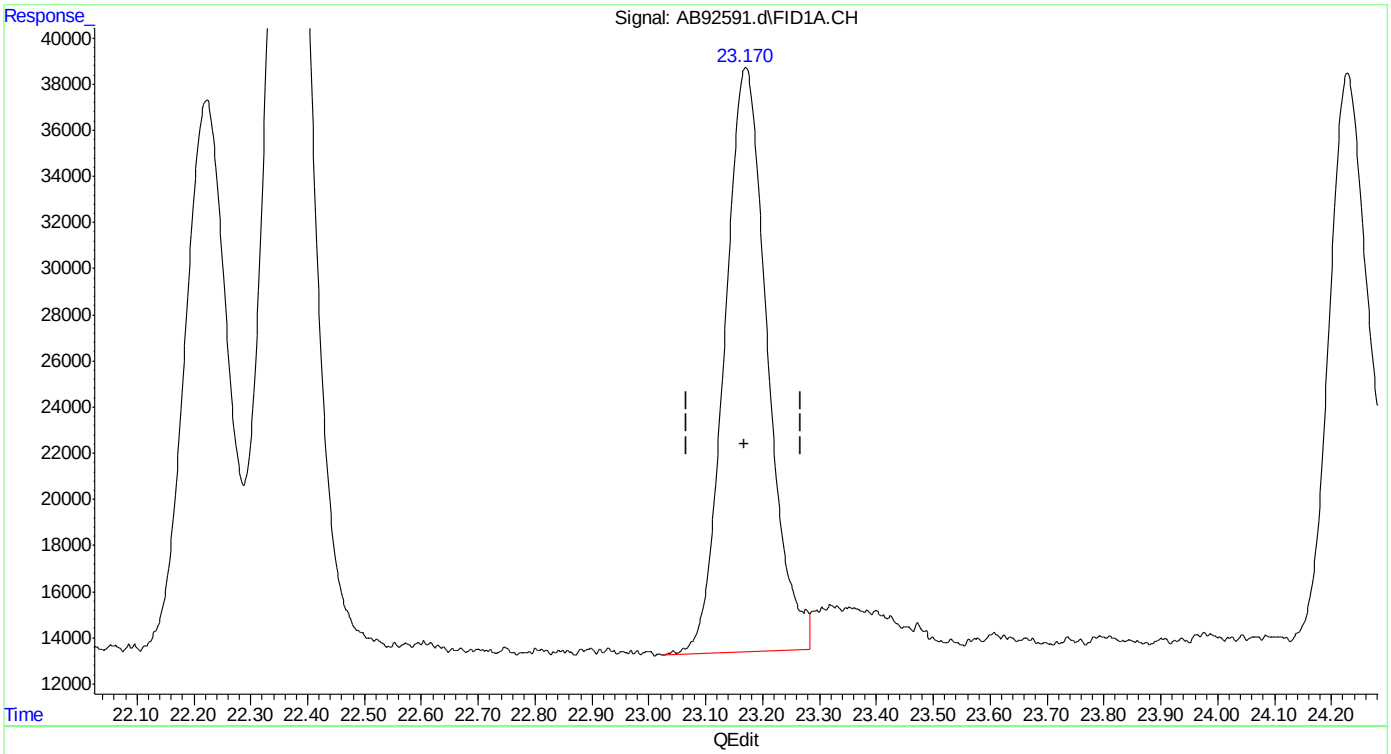
(+) = Expected Retention Time

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

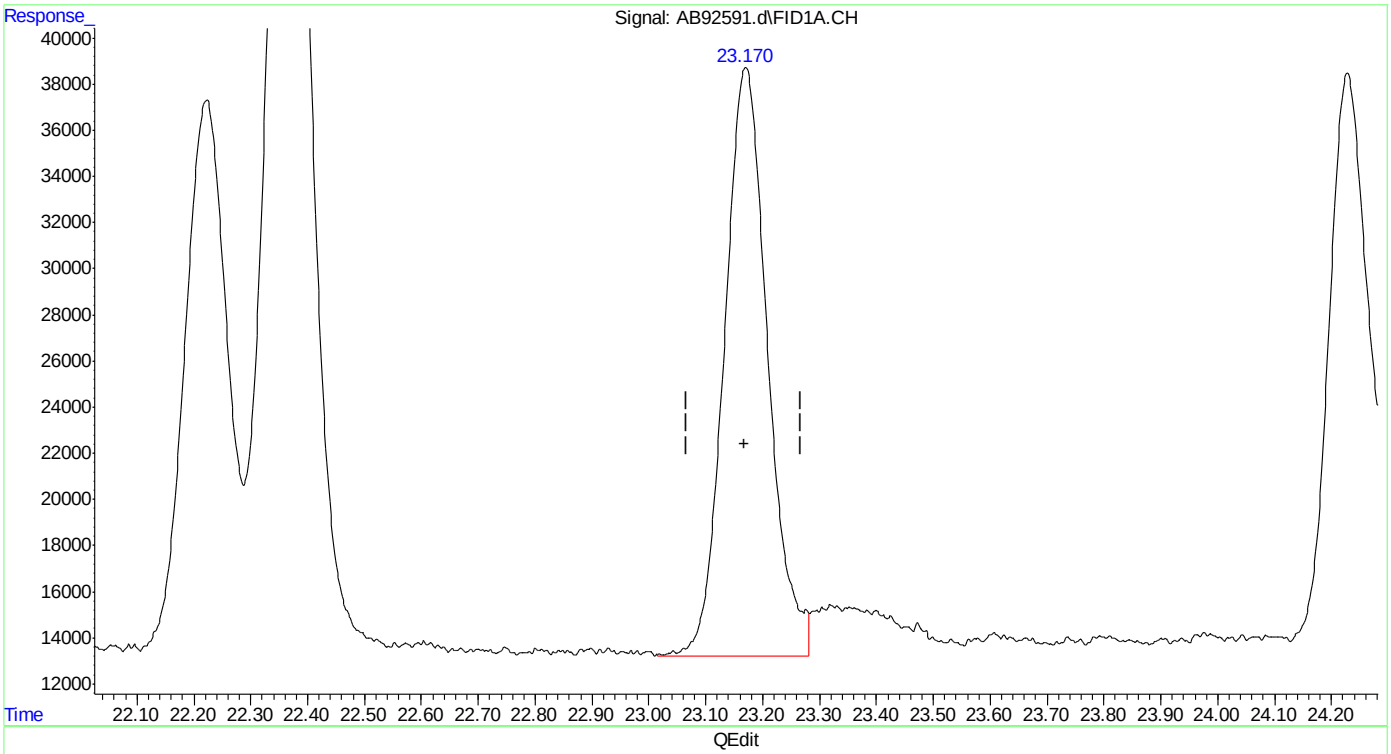
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:00 2016

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 :



(15) o-xylene
23.170min 1.969 ppb m
response 1342437

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:10 2016

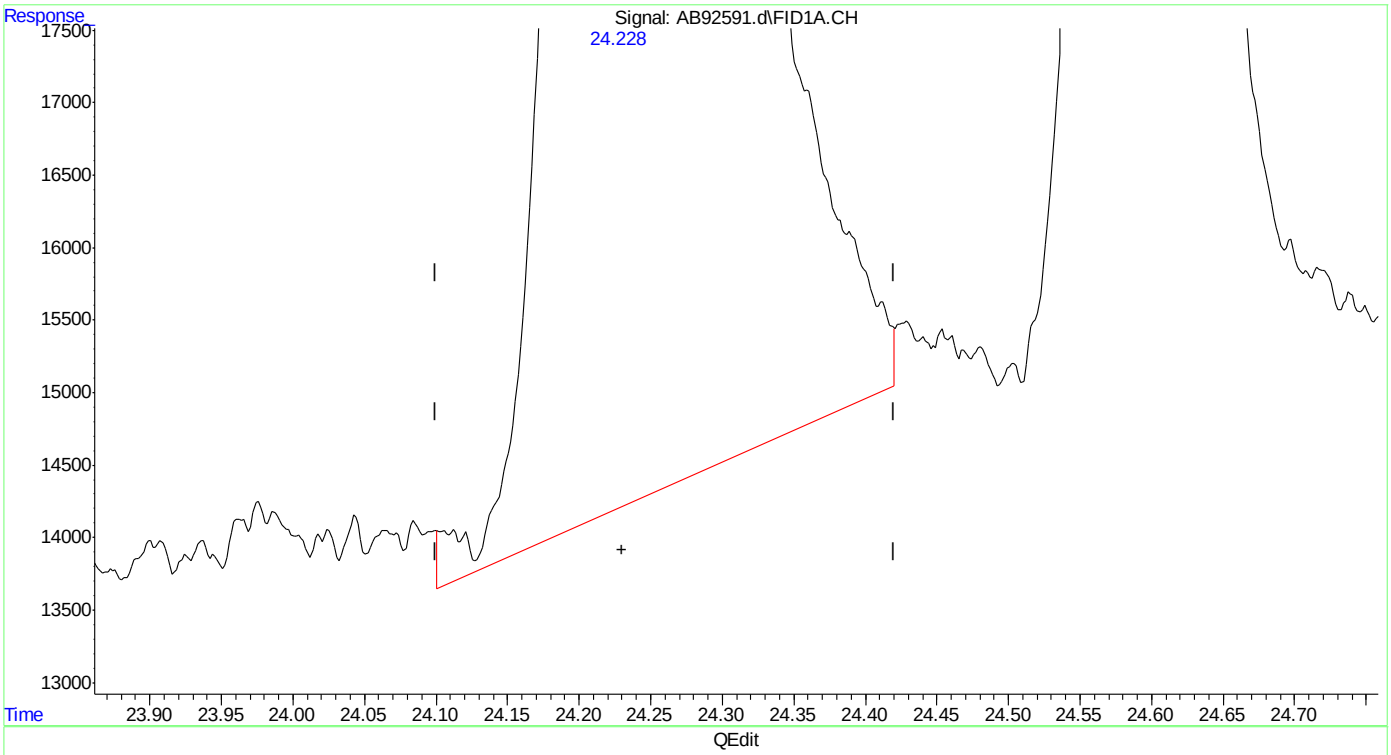
SGS ACCUTEST MC45678

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

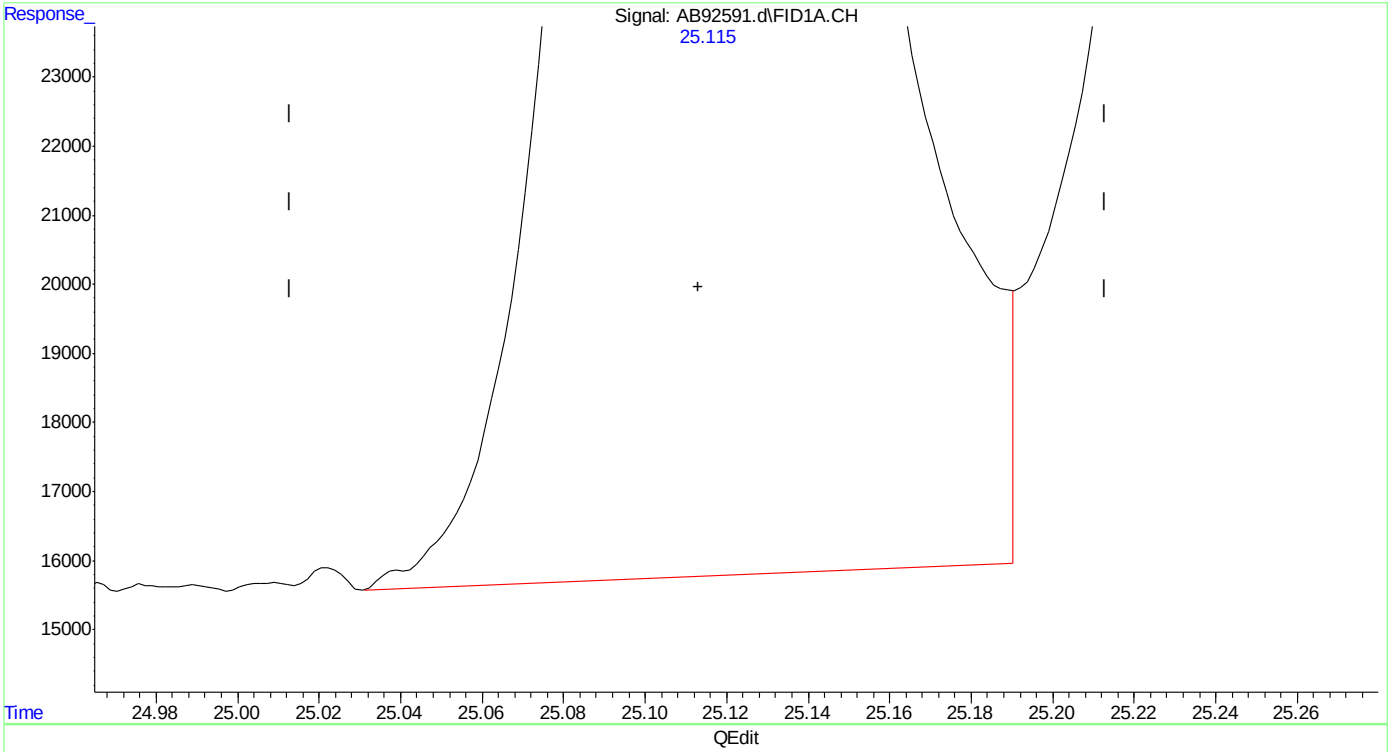
SGS ACCUTEST MC45678

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

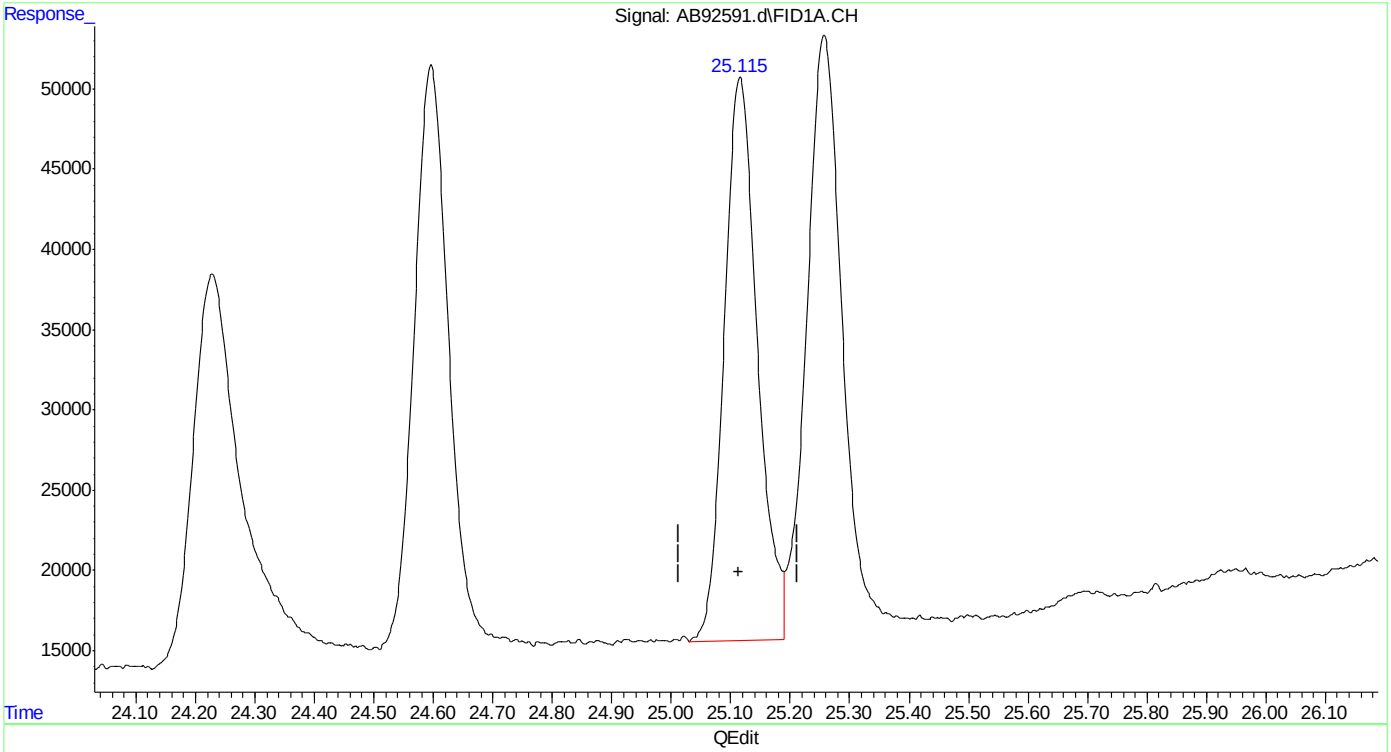
(+) = Expected Retention Time

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

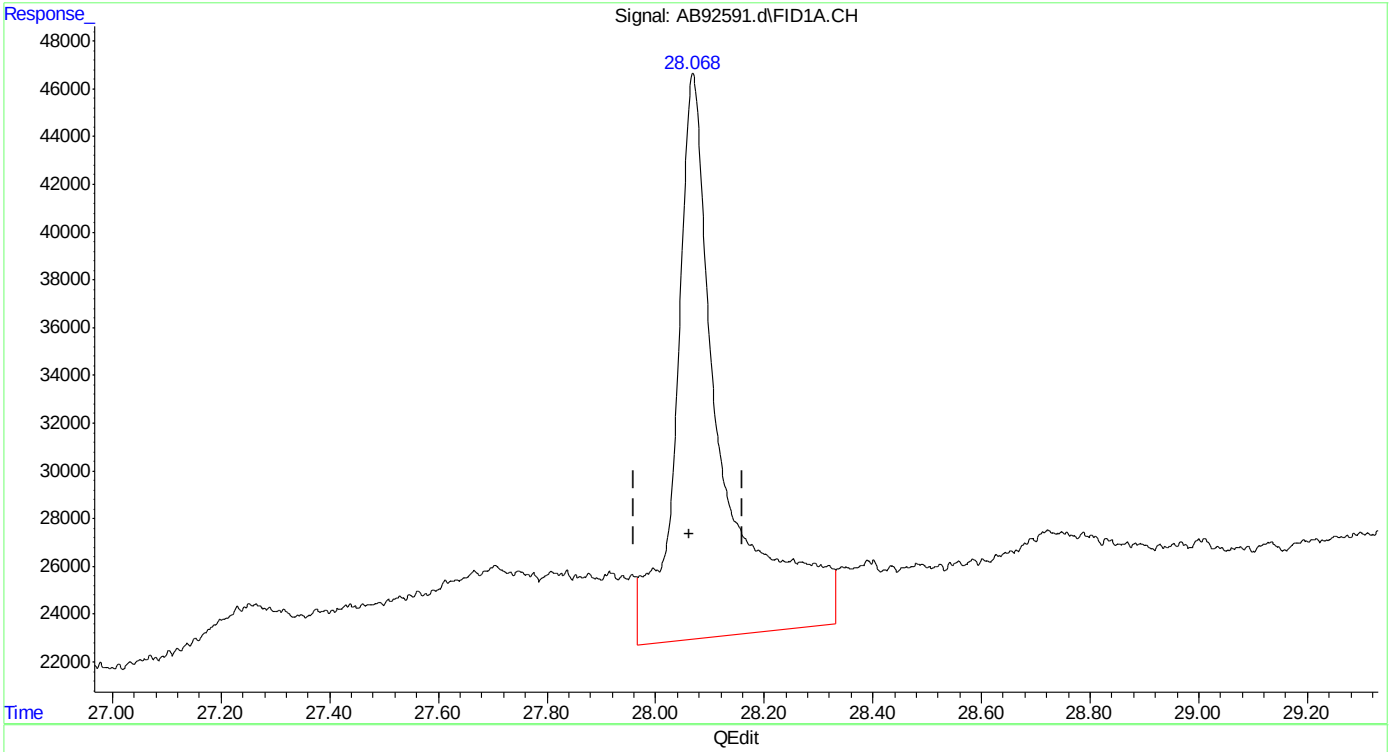
SGS ACCUTEST MC45678

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

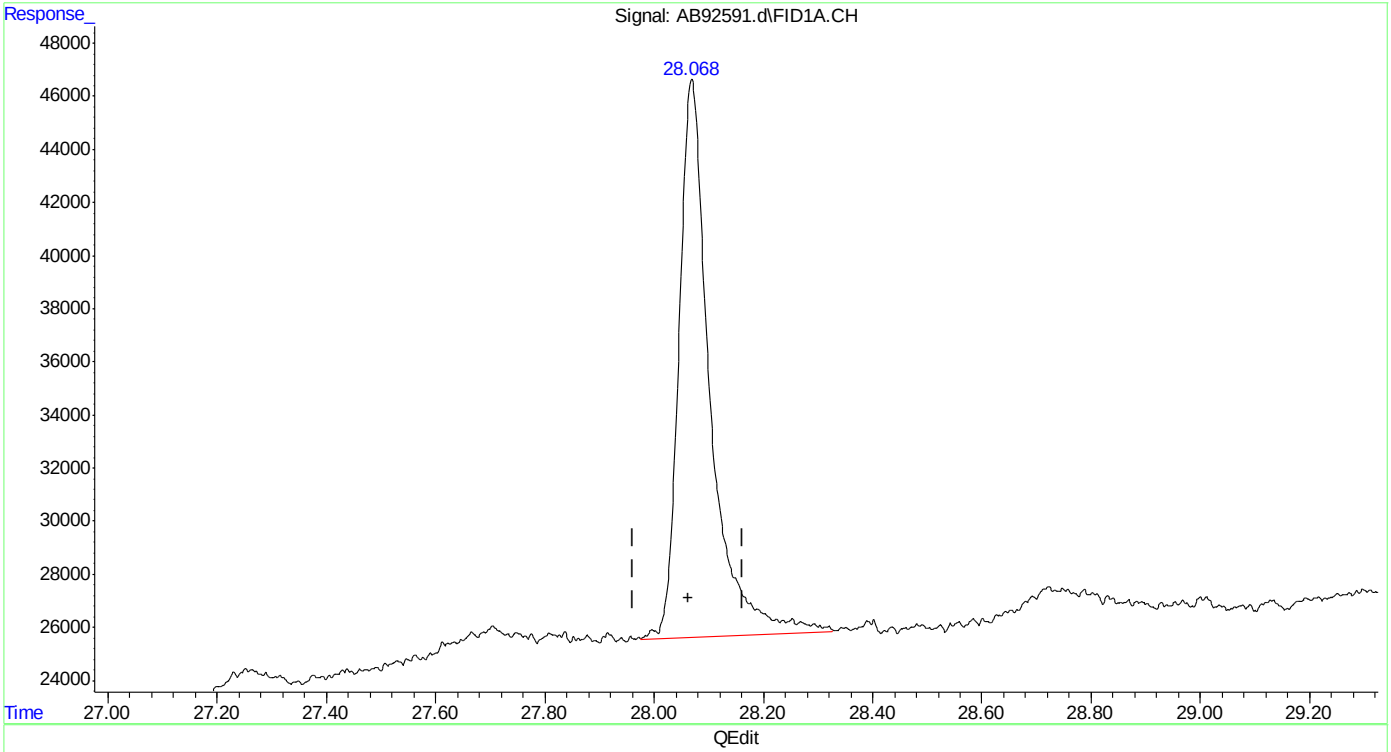
(+) = Expected Retention Time

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

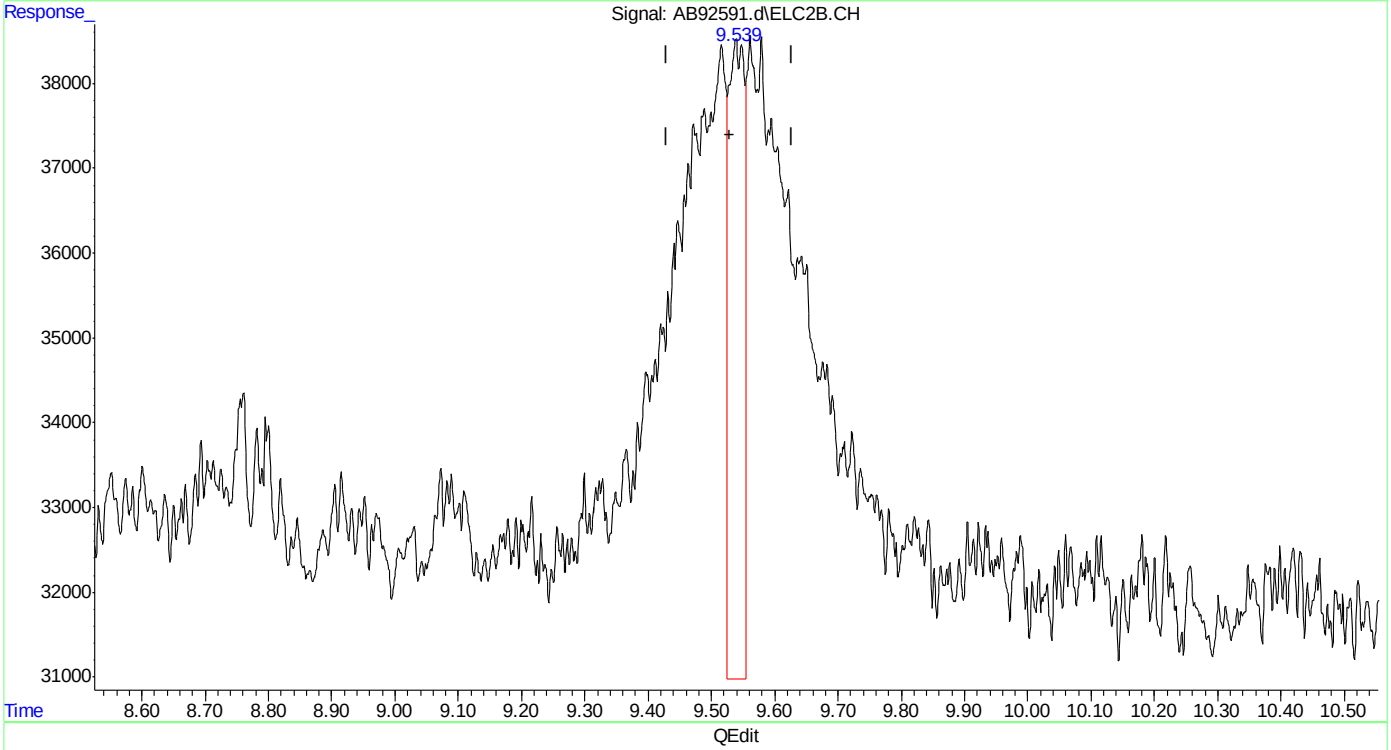
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:24:53 2016

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

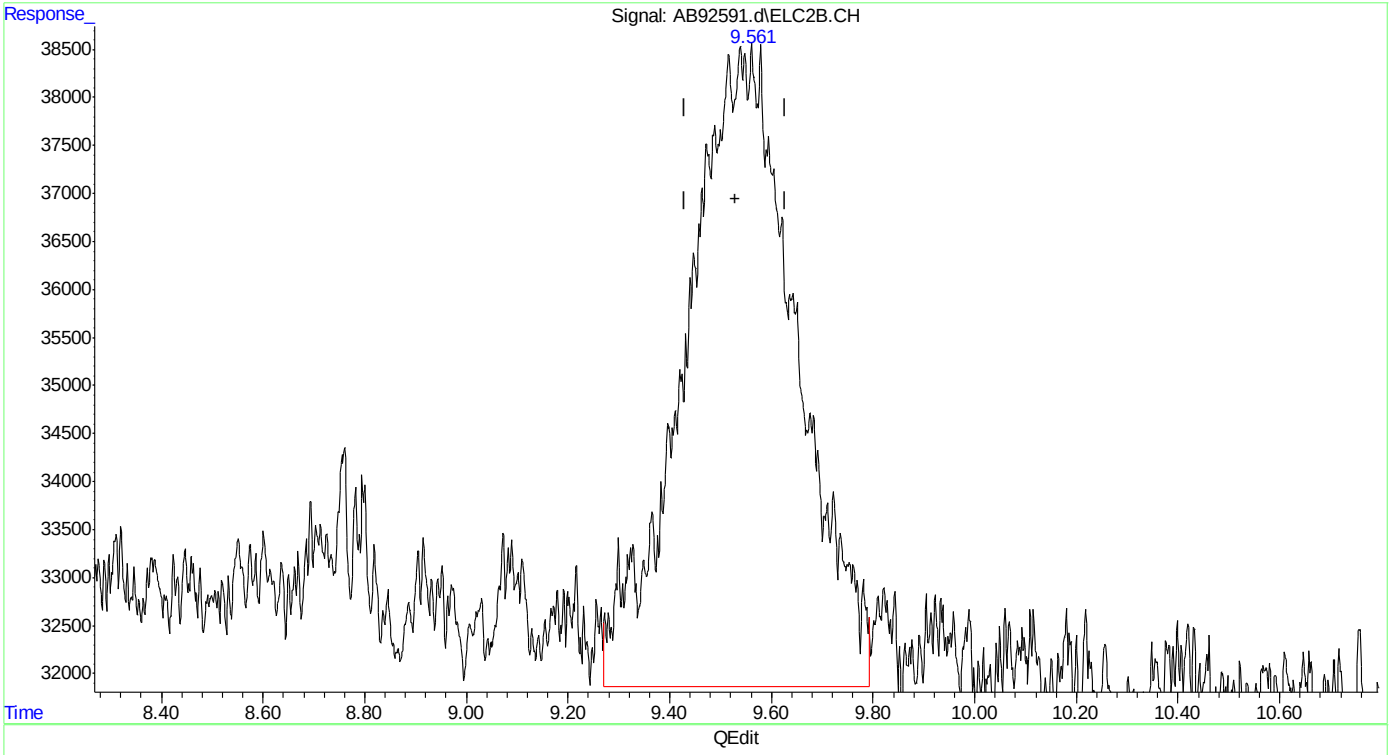
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:03 2016

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

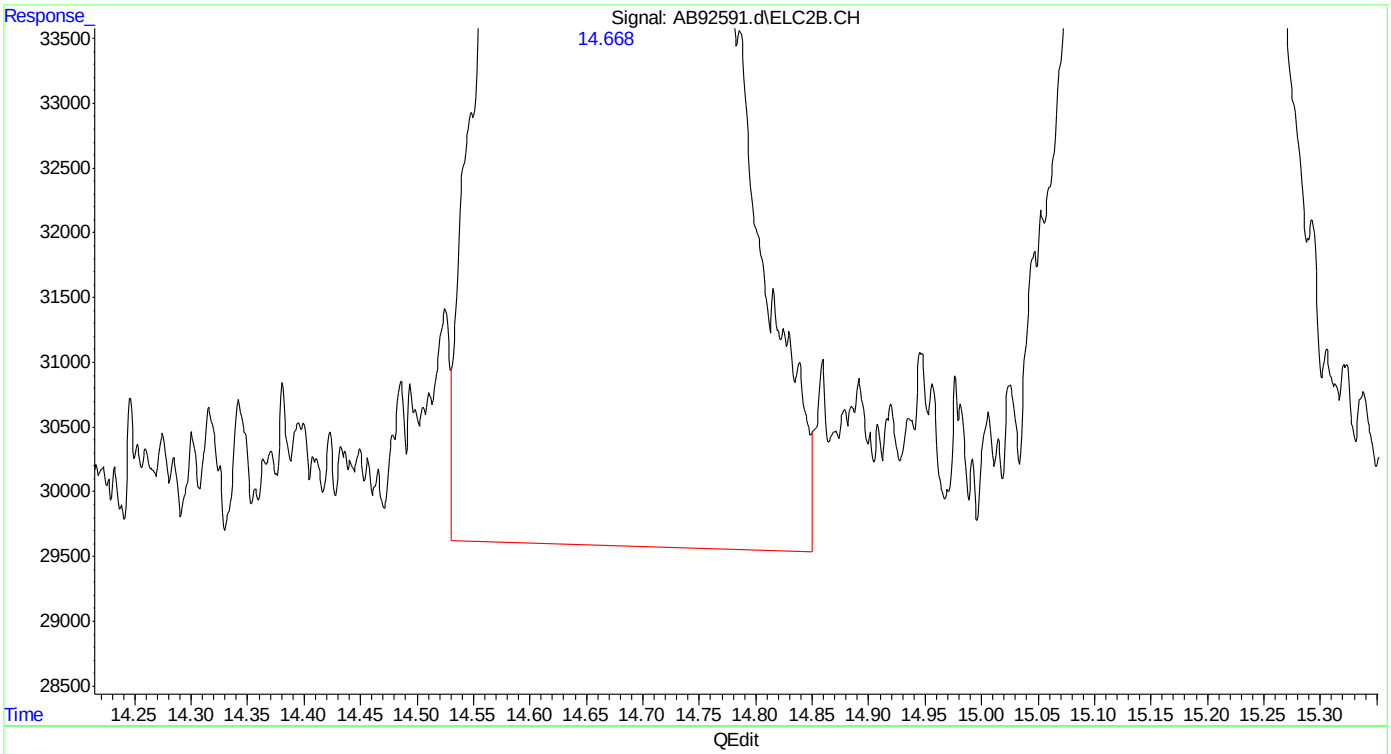
SGS ACCUTEST MC45678

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

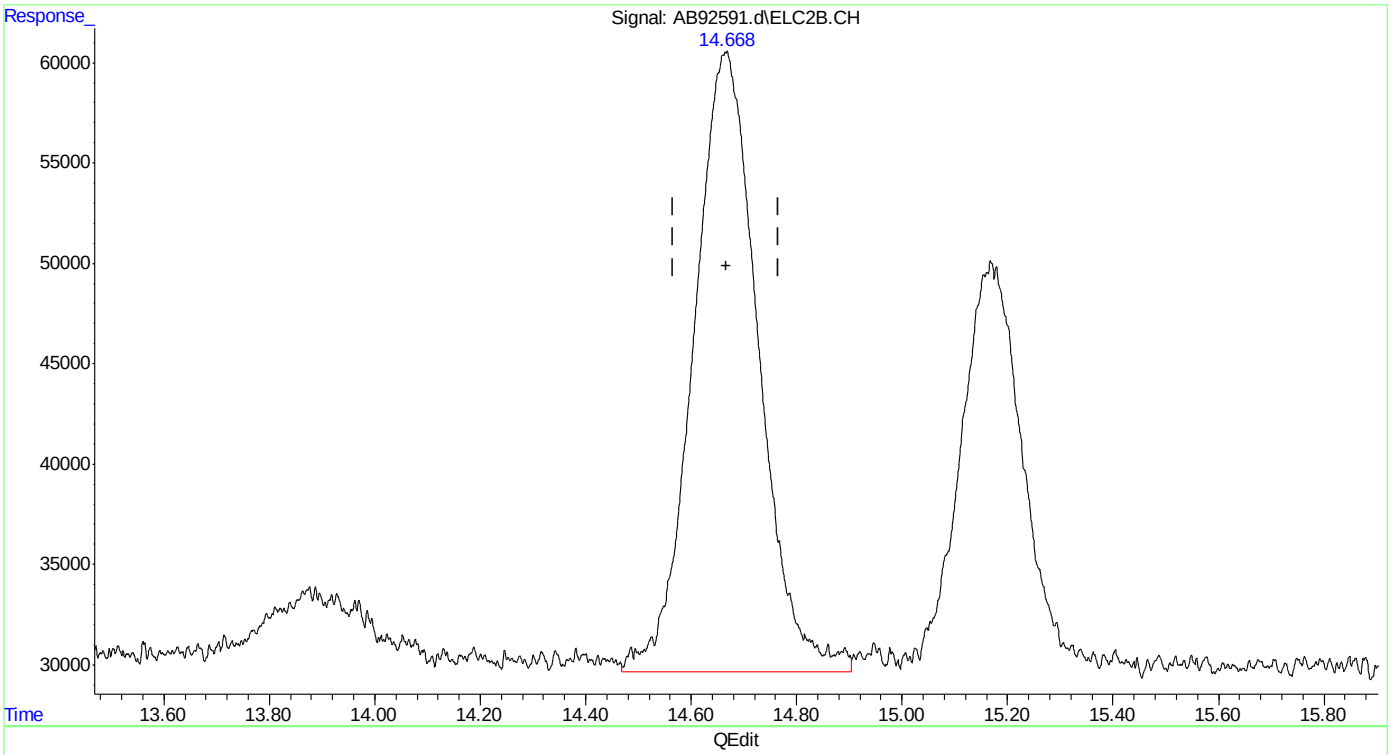
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:31 2016

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

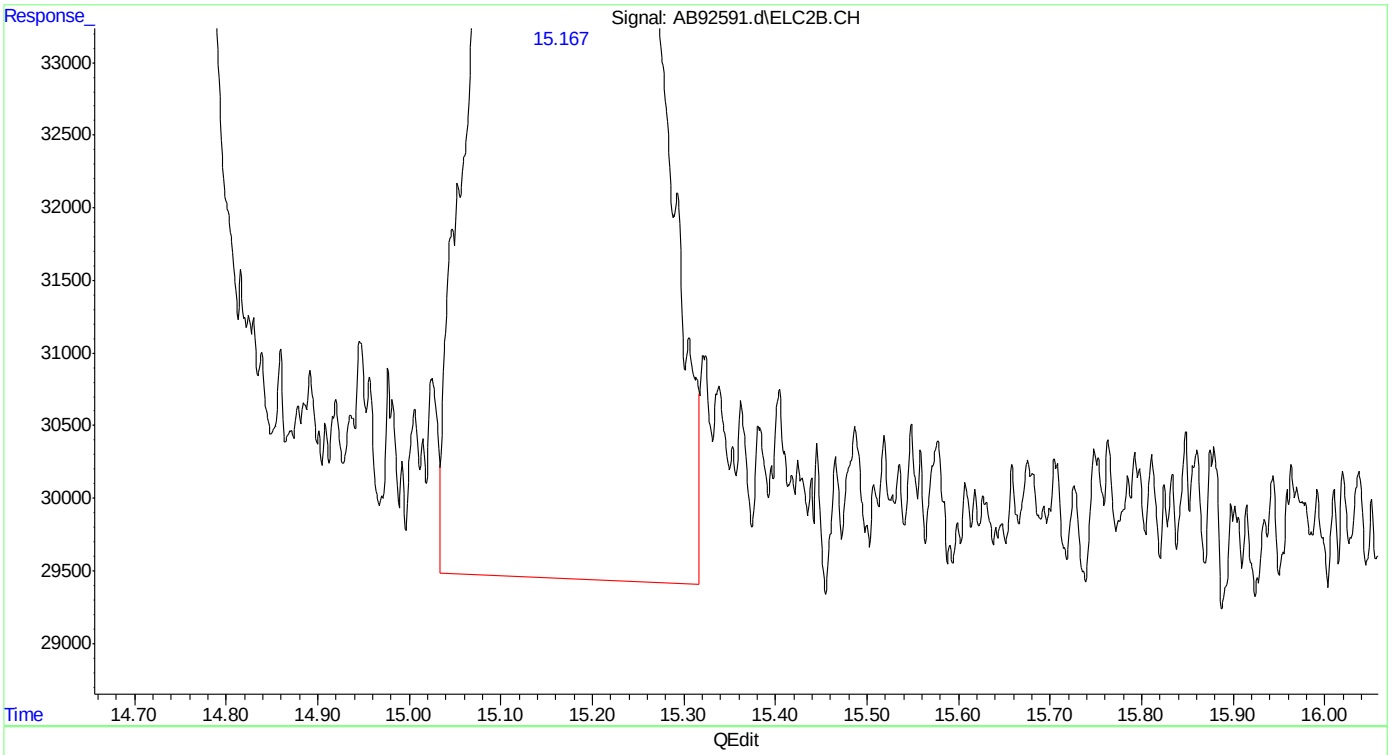
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:00 2016

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

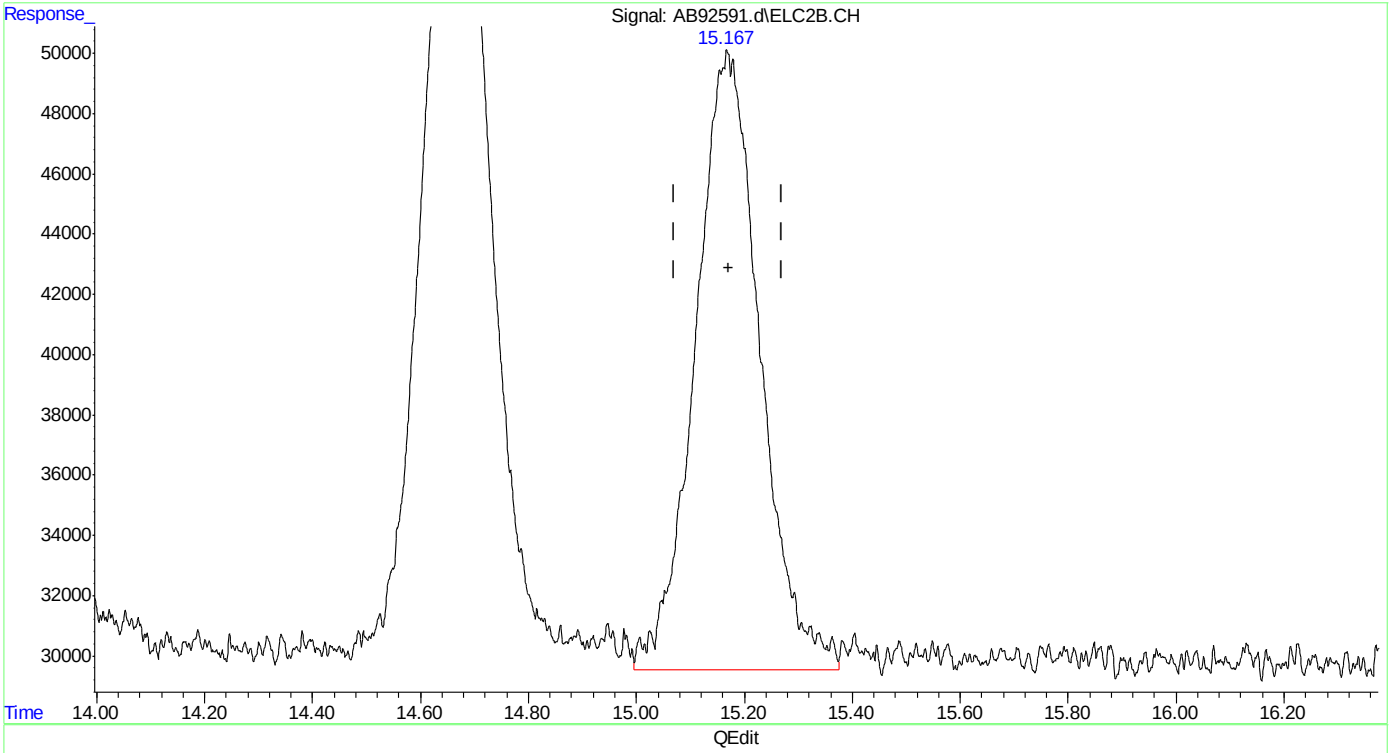
(+) = Expected Retention Time

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

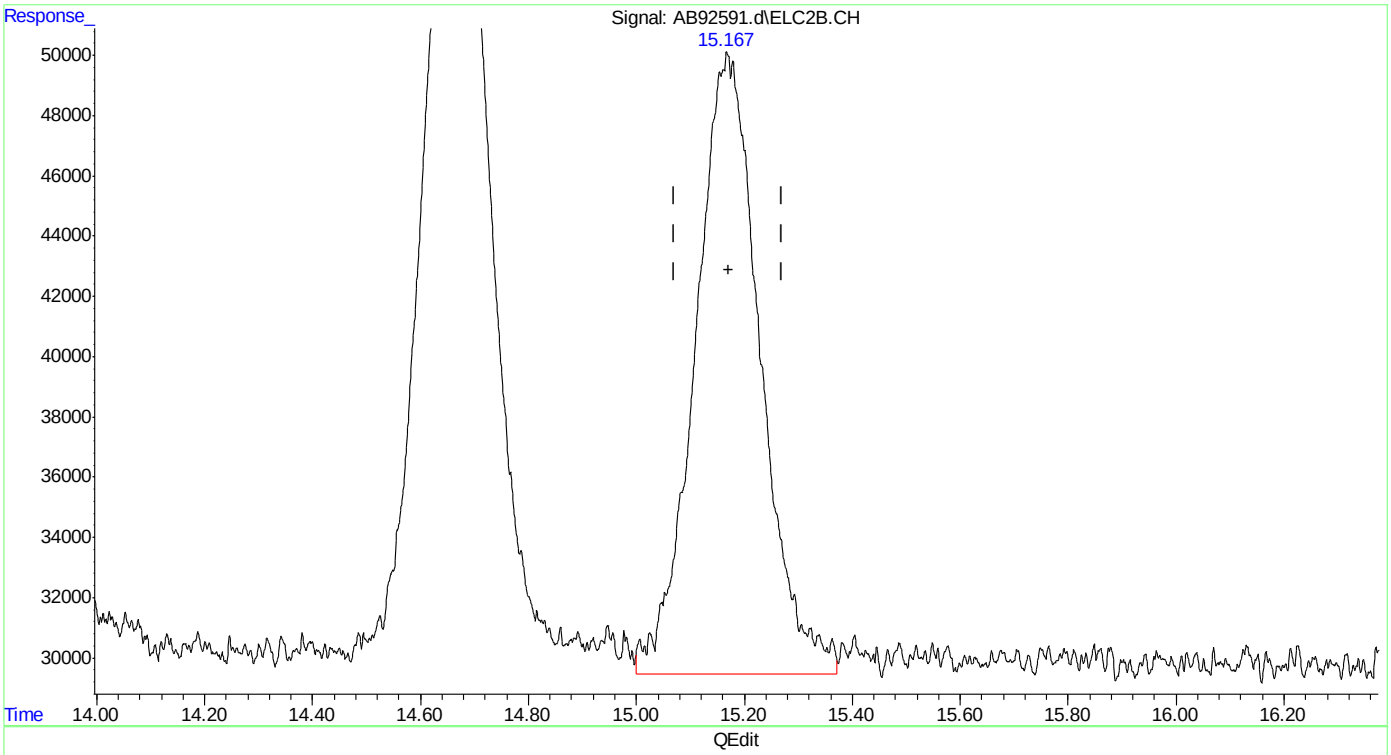
(+) = Expected Retention Time

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

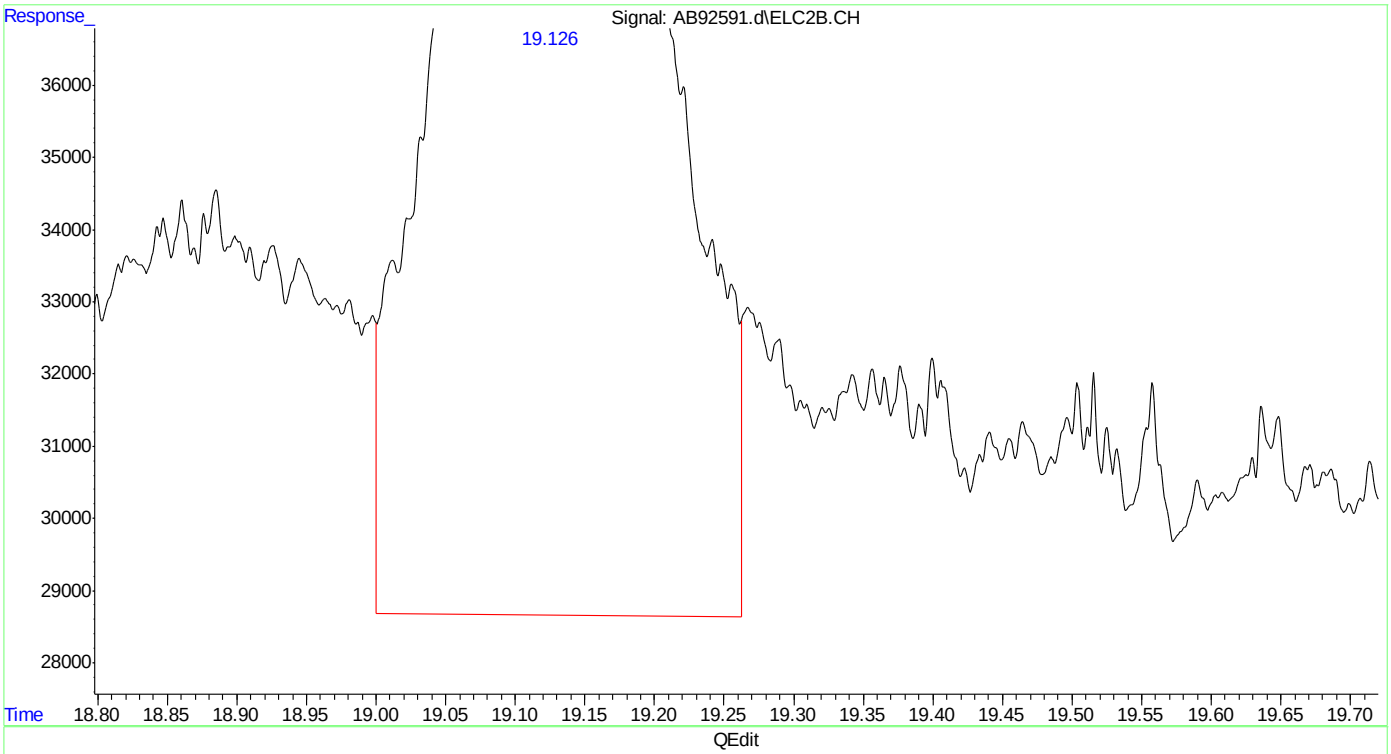
SGS ACCUTEST MC45678

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

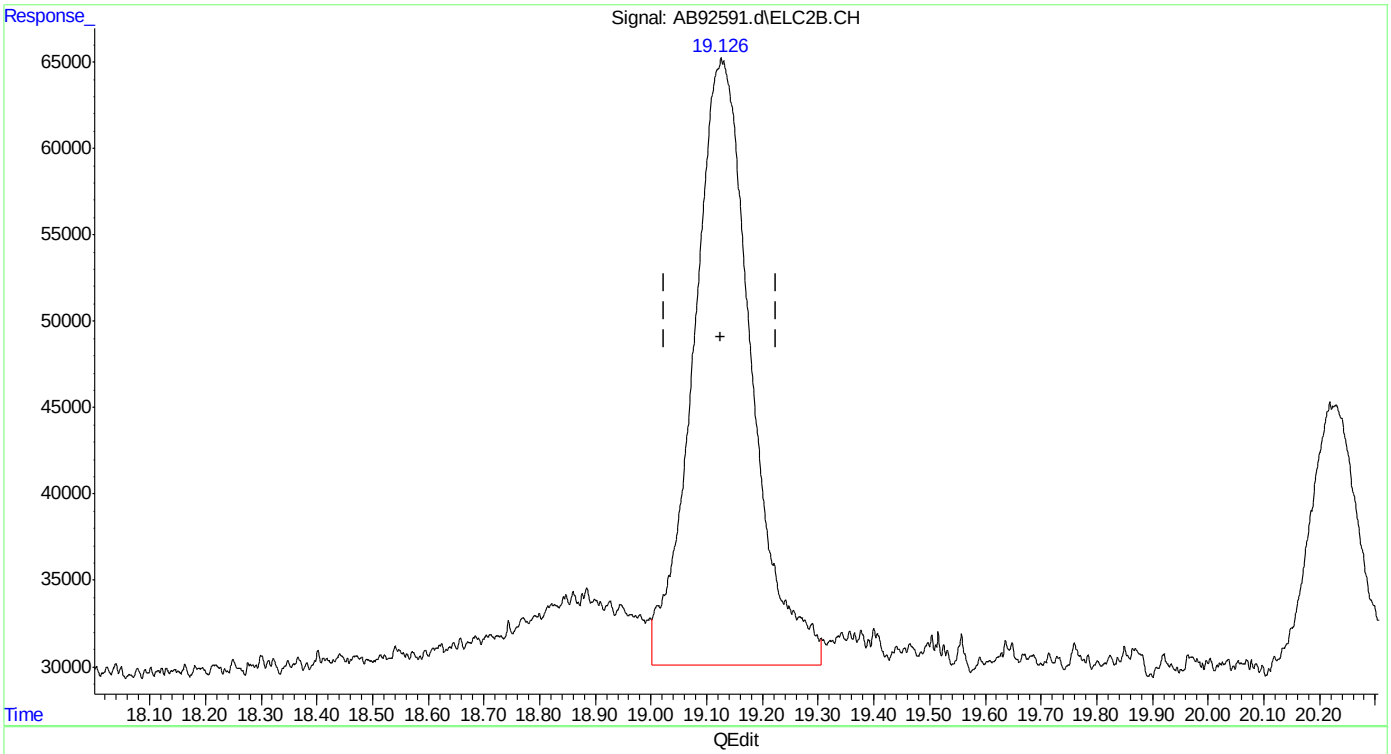
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:28 2016

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 Page: 1

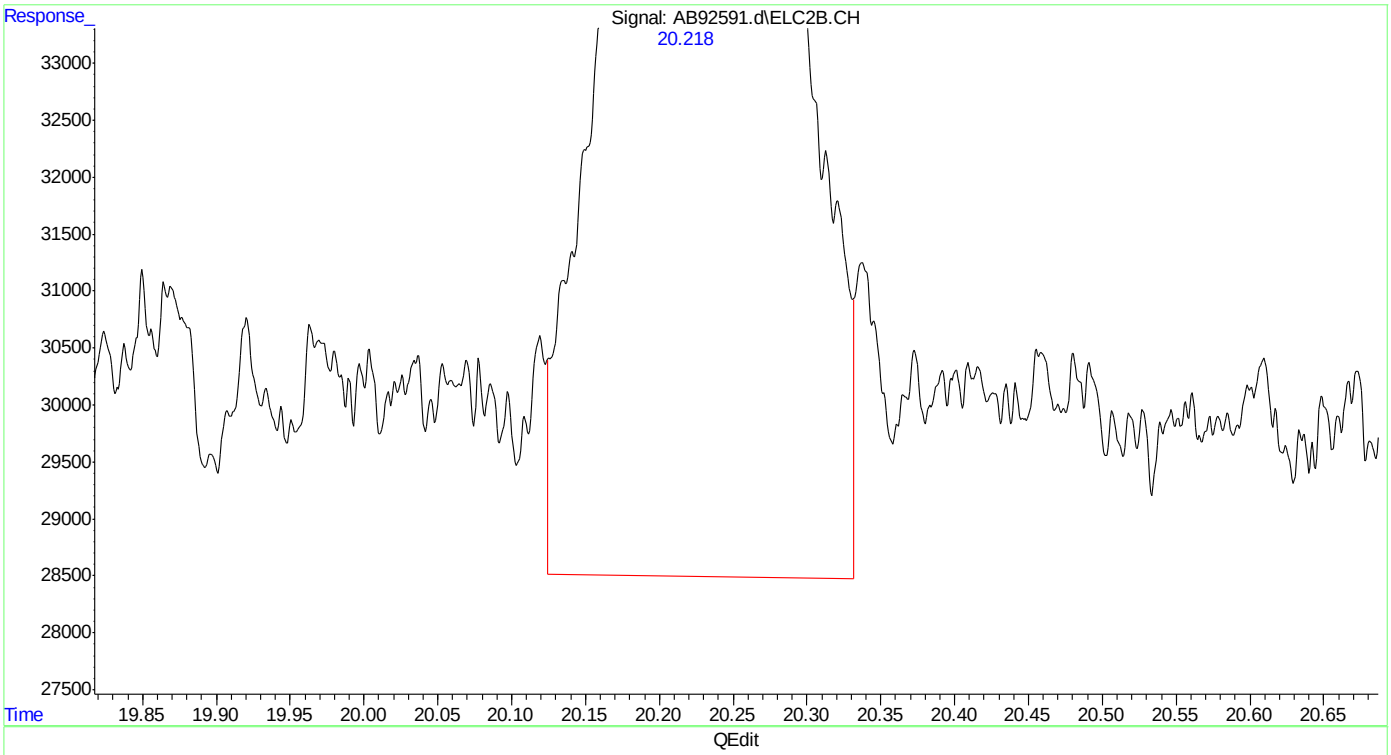
SGS ACCUTEST MC45678

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

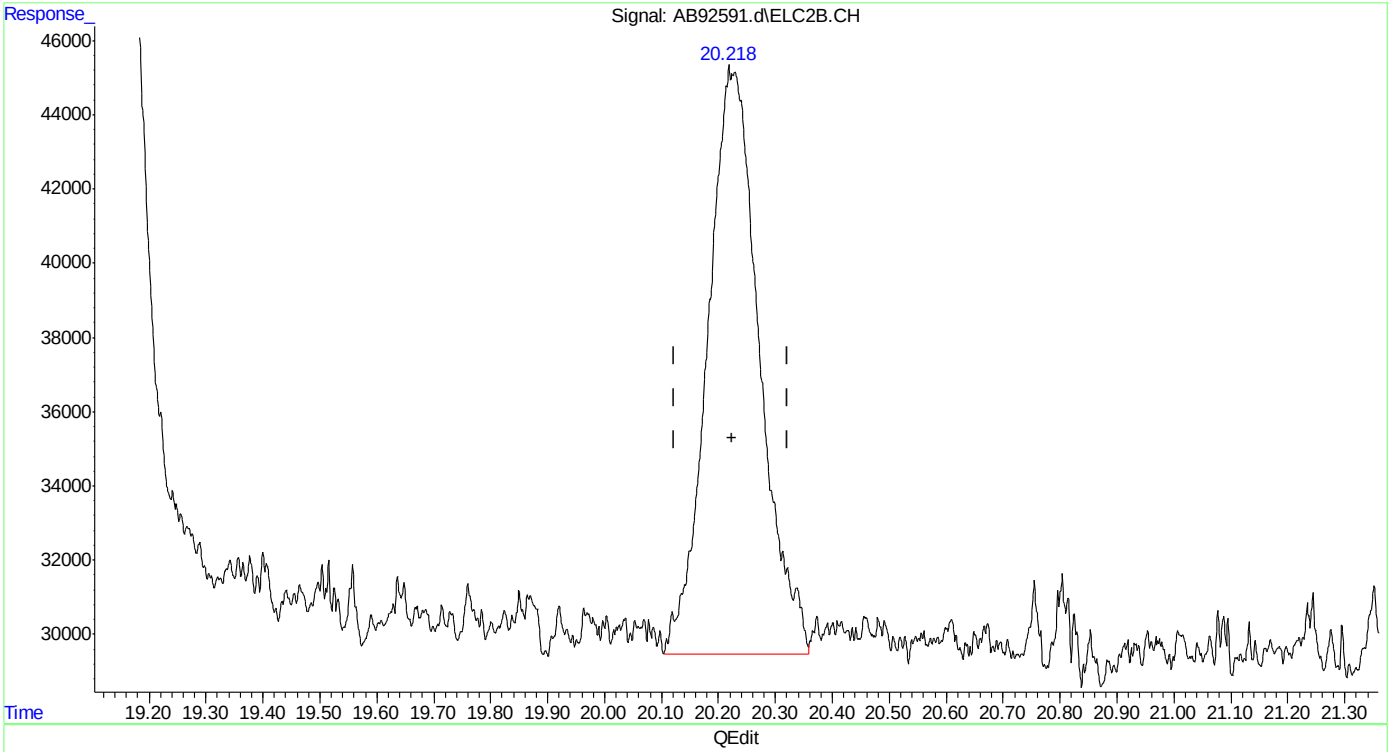
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:41 2016

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

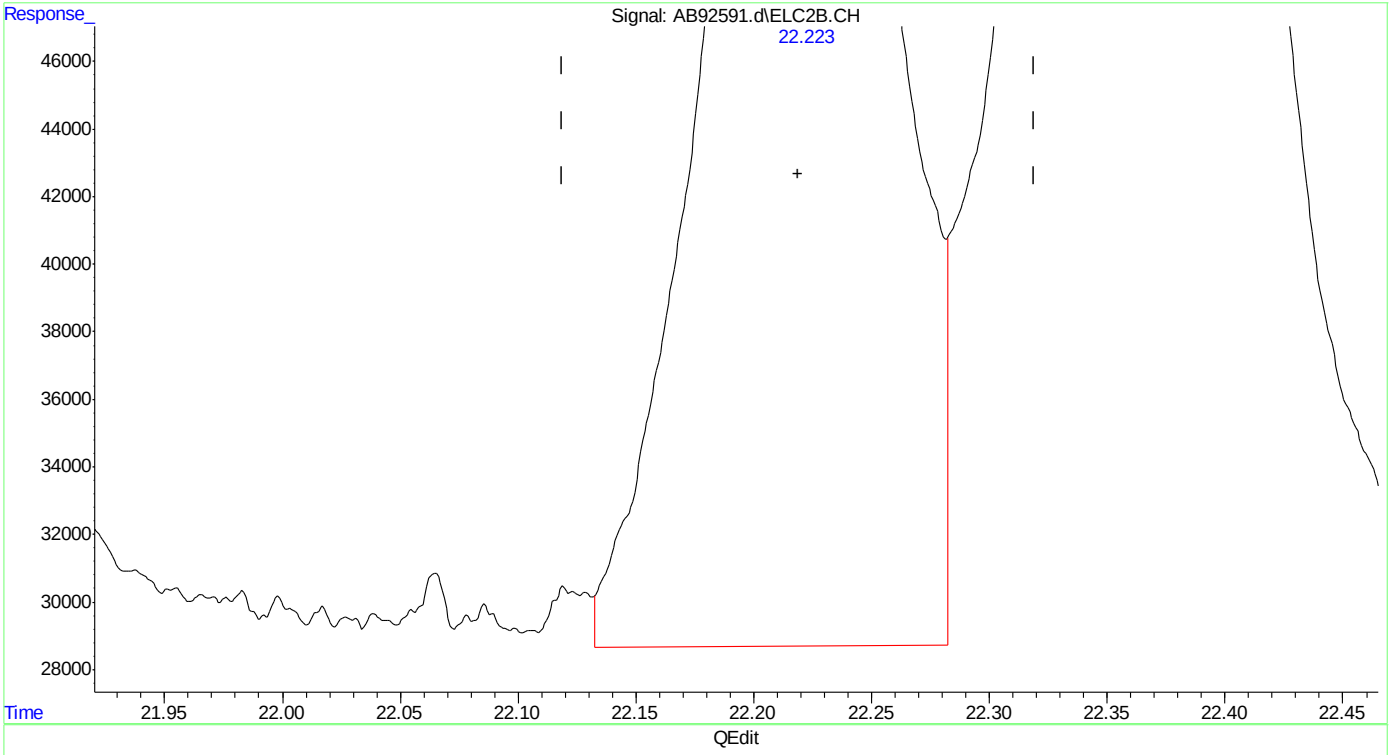
SGS ACCUTEST MC45678

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

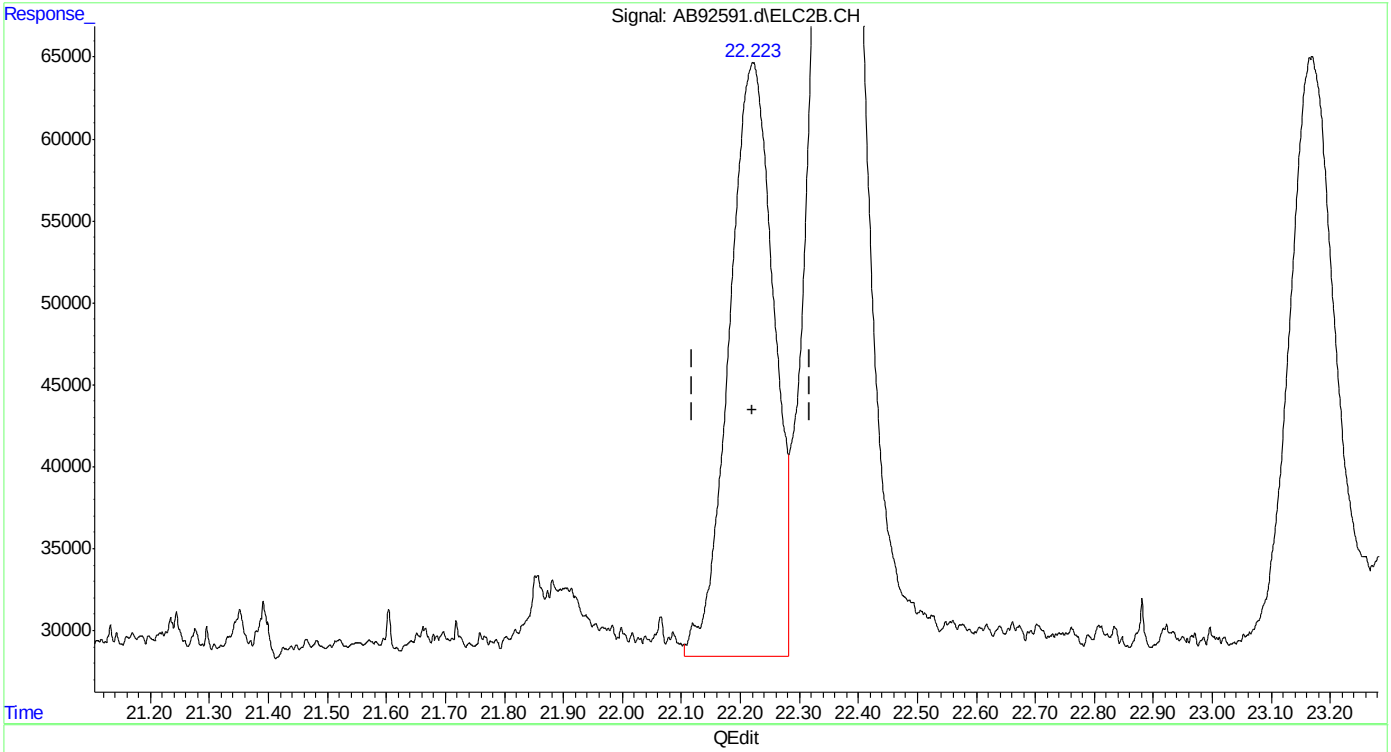
SGS ACCUTEST MC45678

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

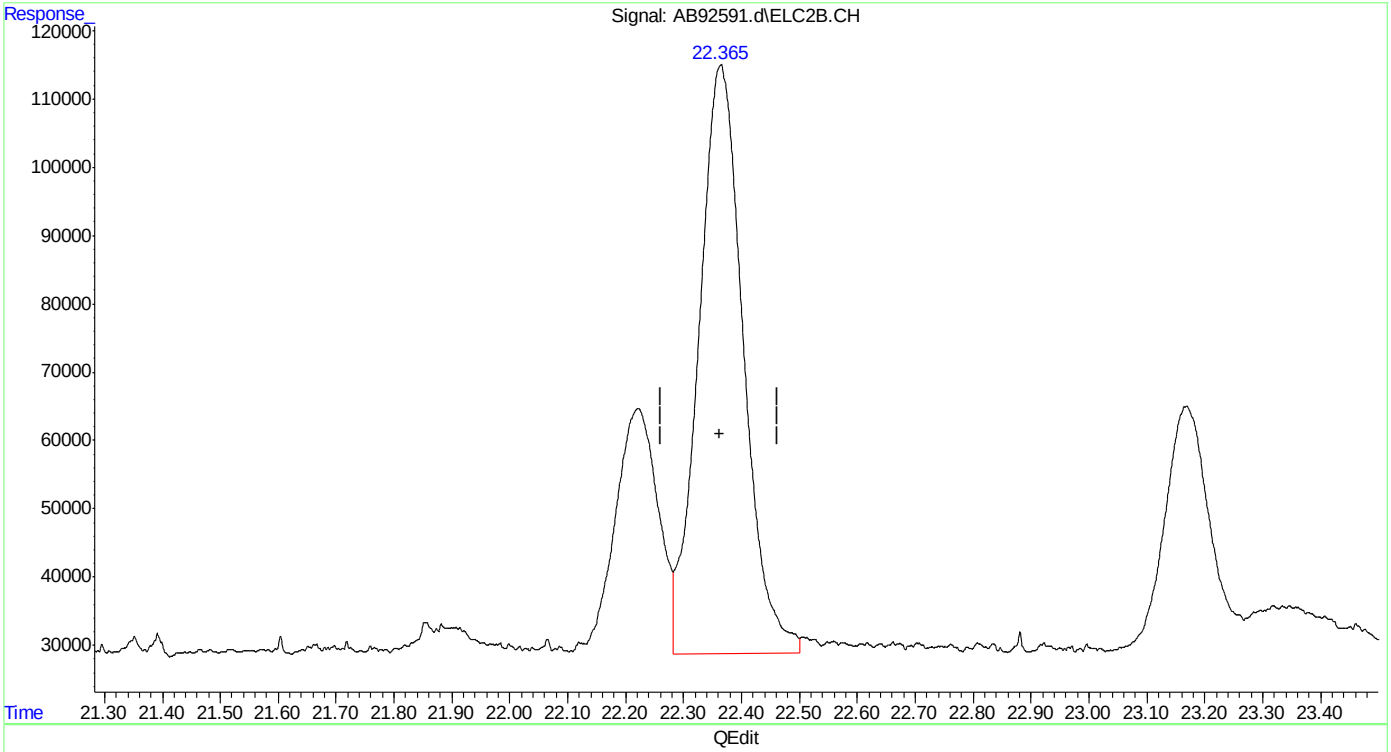
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:31 2016 Page: 1

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

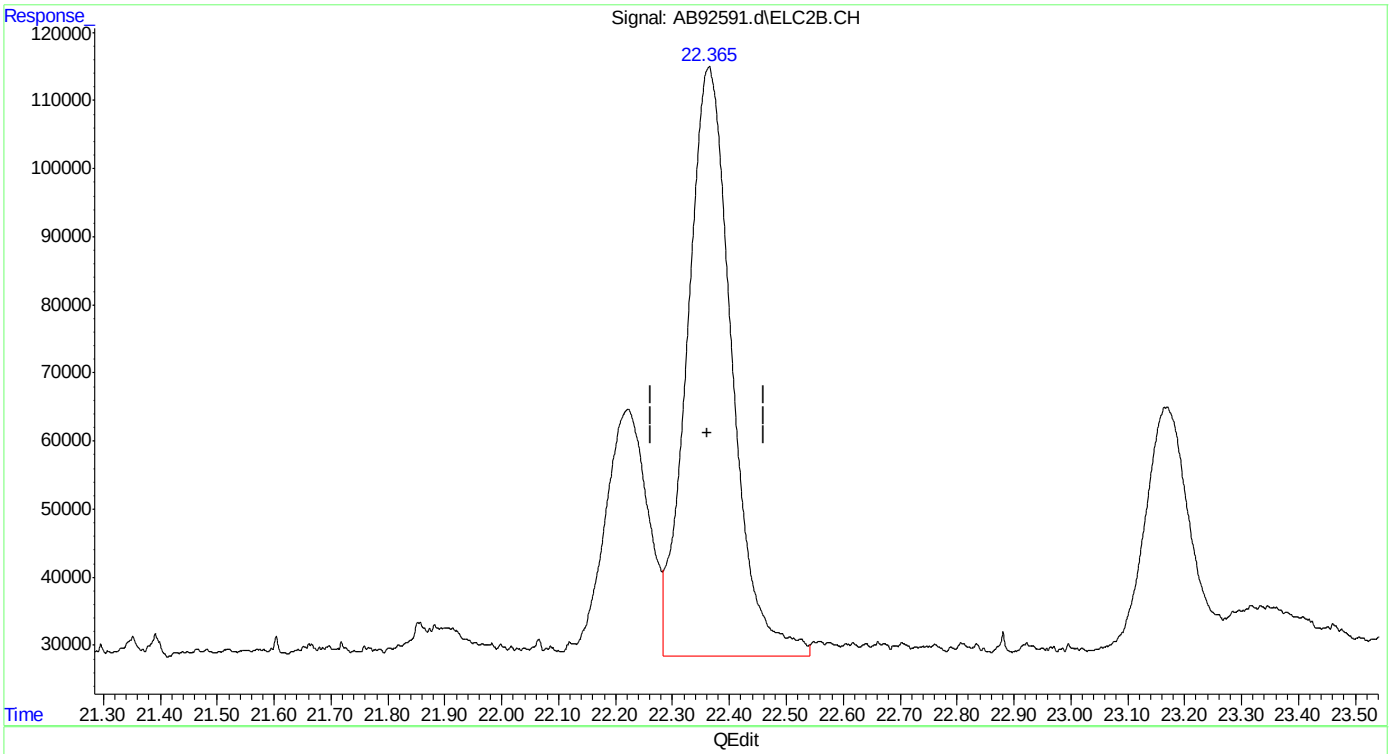
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:34 2016 Page: 1

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
22.365min 3.849 ppb m
response 4718026

(+) = Expected Retention Time

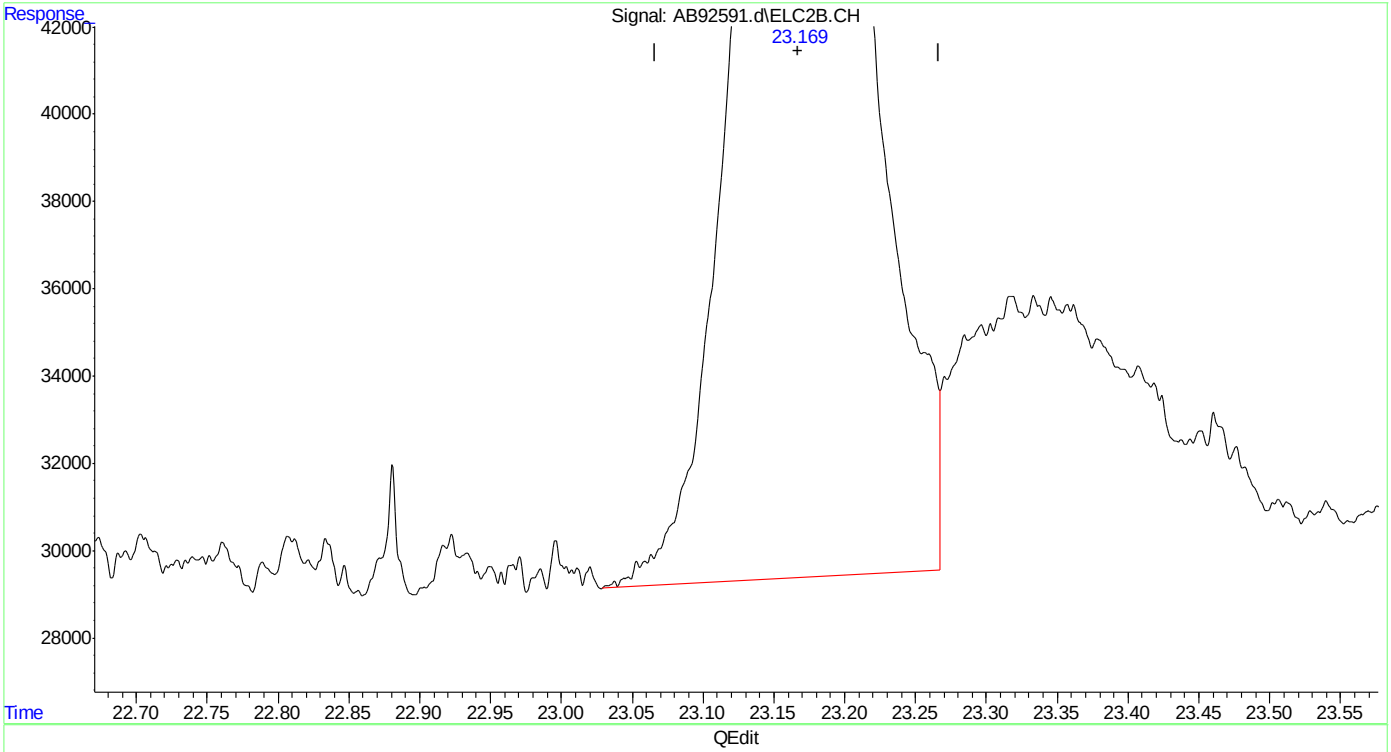
SGS ACCUTEST MC45678

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

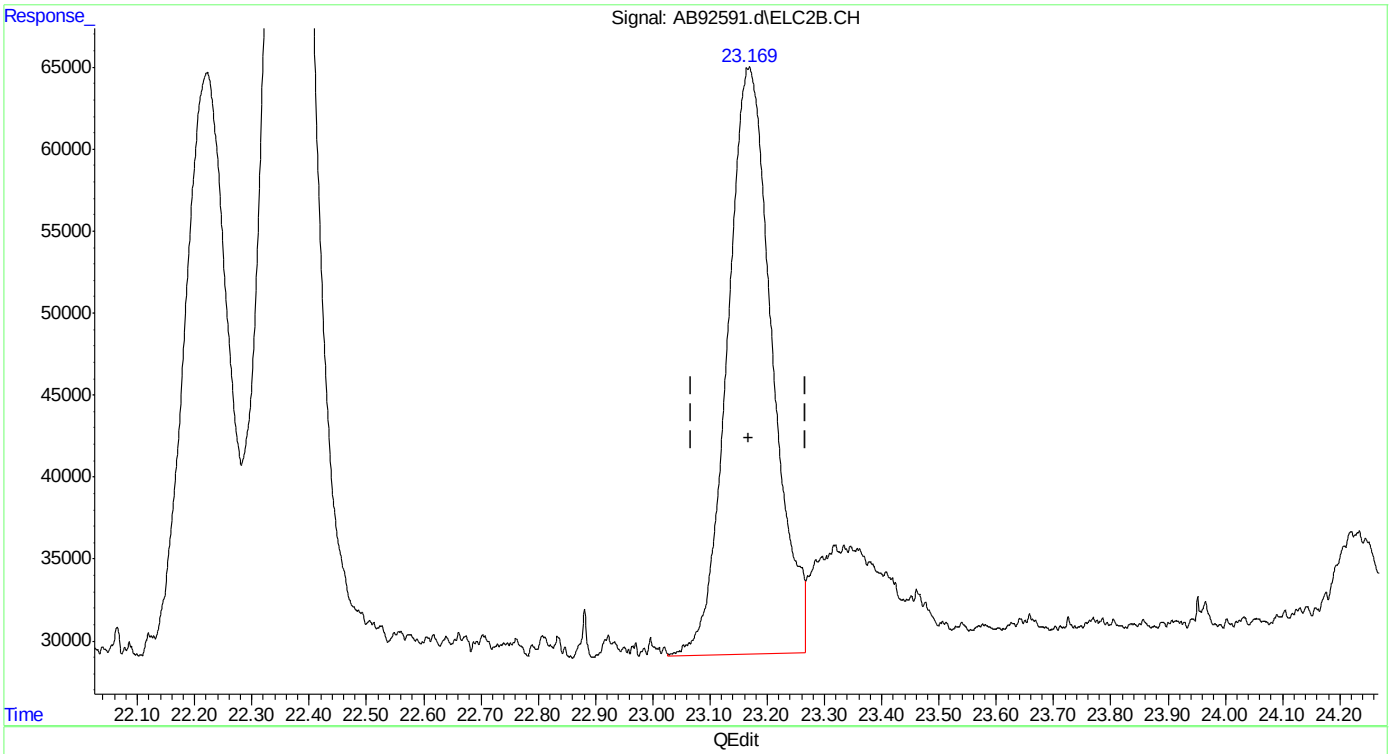
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:48 2016

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

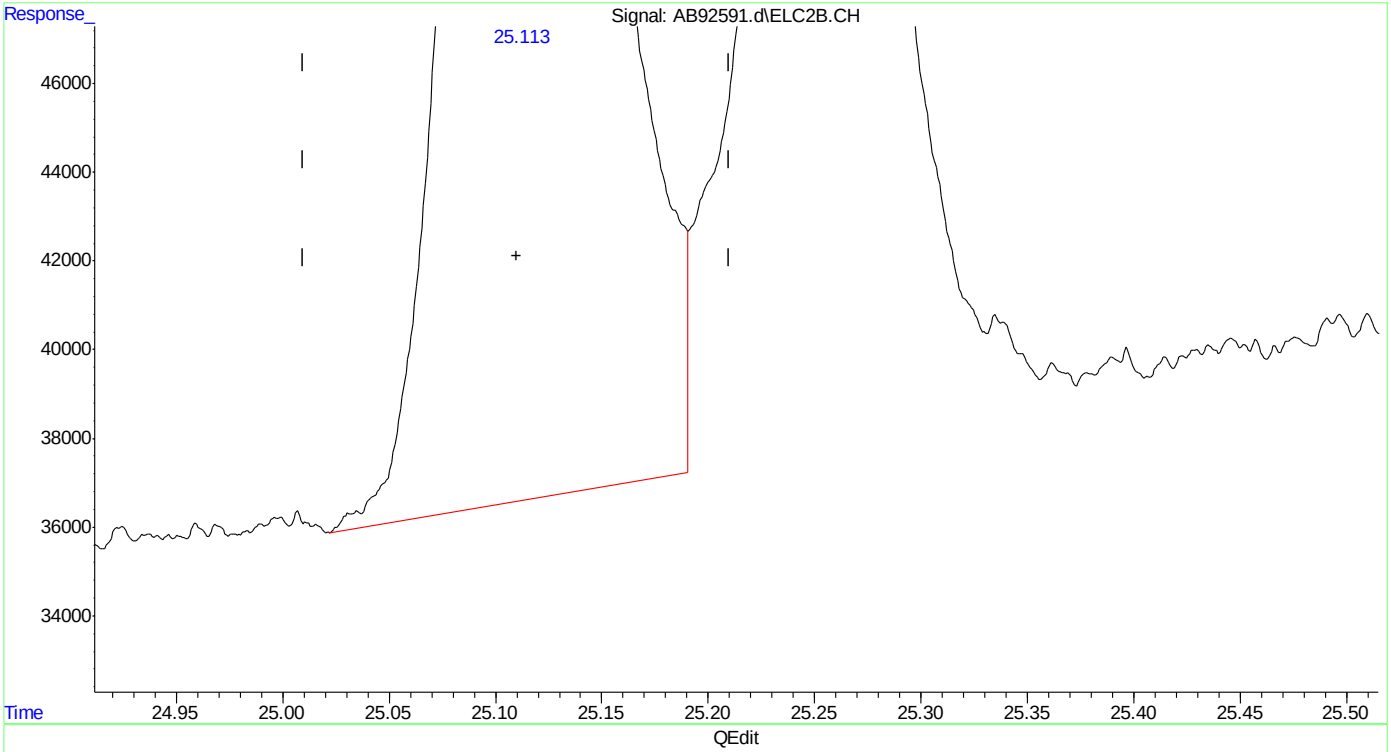
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:55 2016 Page: 1

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 1.893 ppb
response 2008192

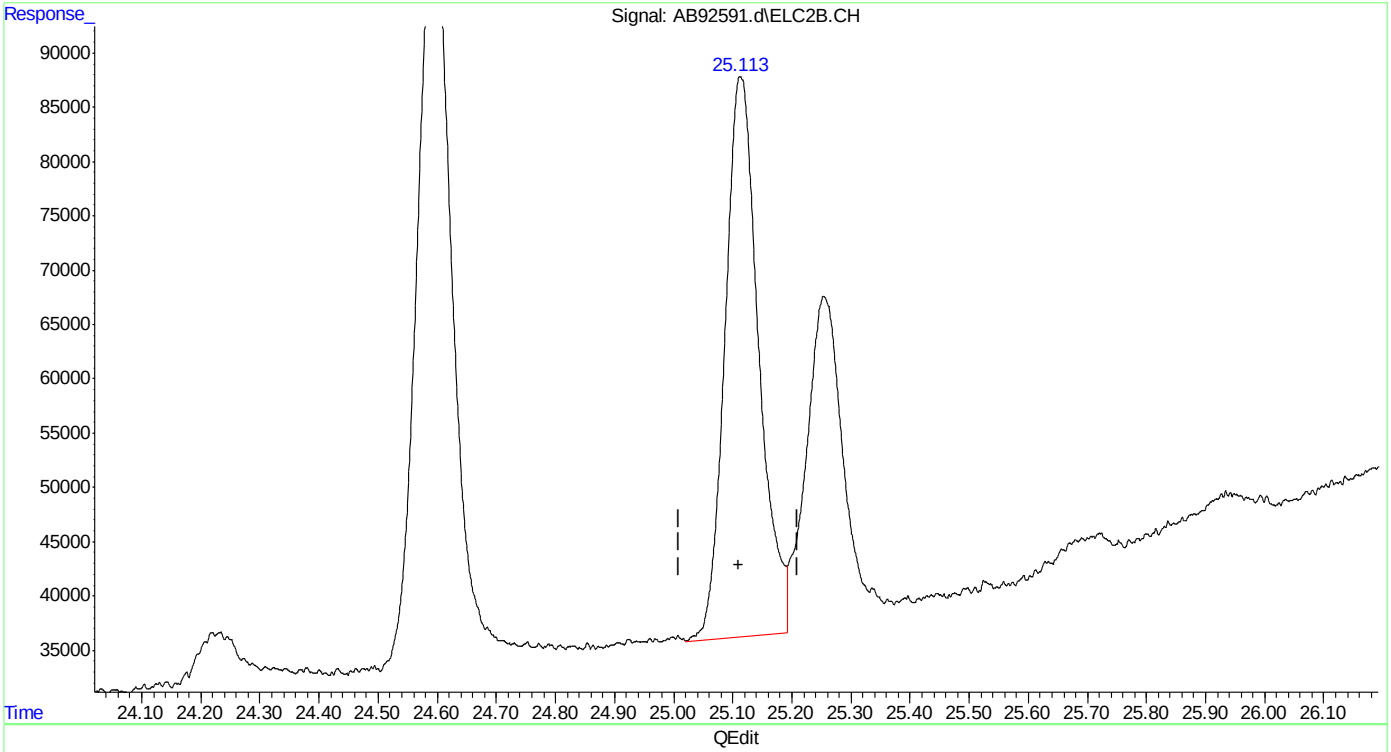
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:28:01 2016 Page: 1

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 MC45678

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

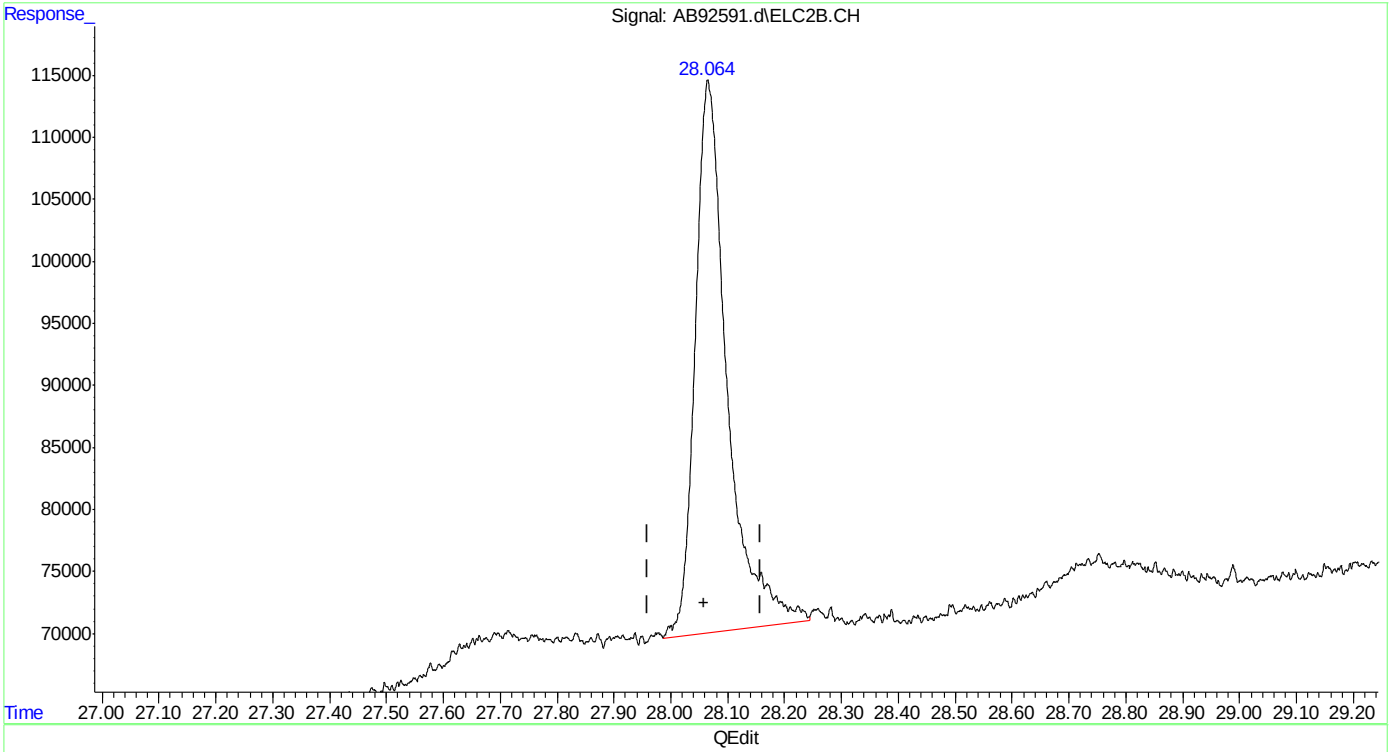
(+) = Expected Retention Time

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

SGS ACCUTEST MC45678

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

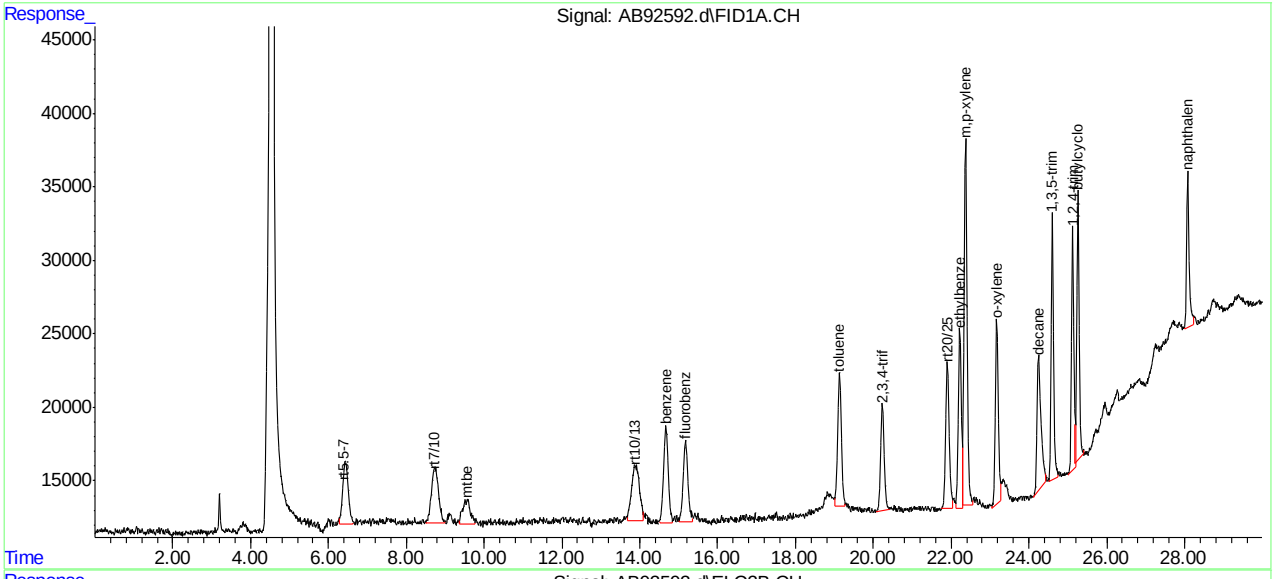
(f)=RT Delta > 1/2 Window (m)=manual int.

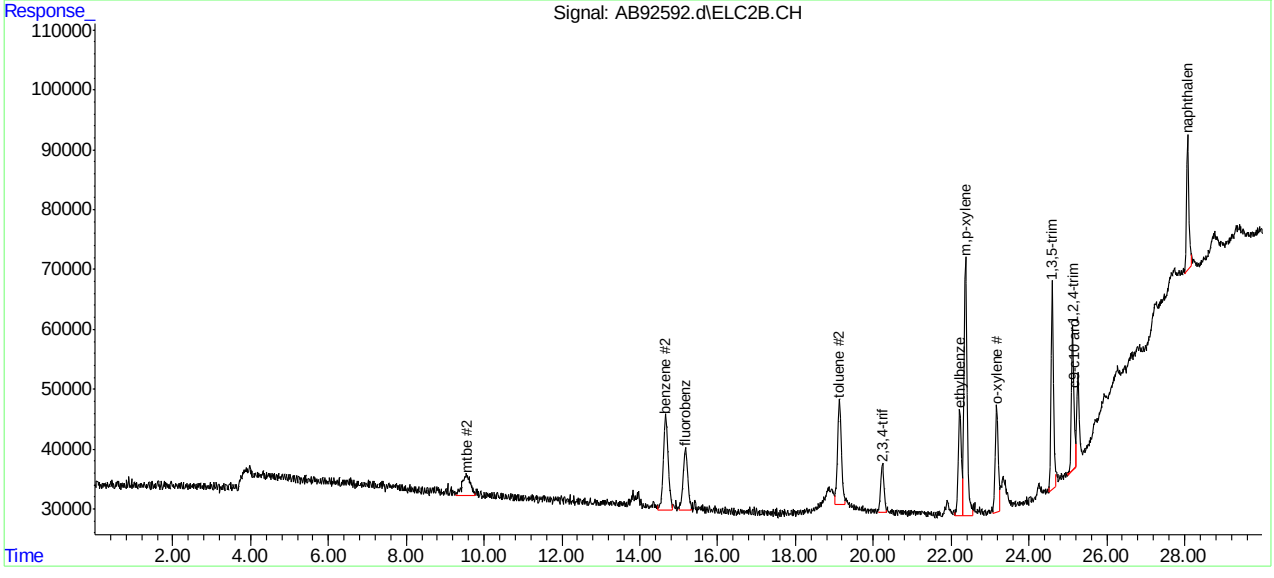
Quantitation Report (QT Reviewed)

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

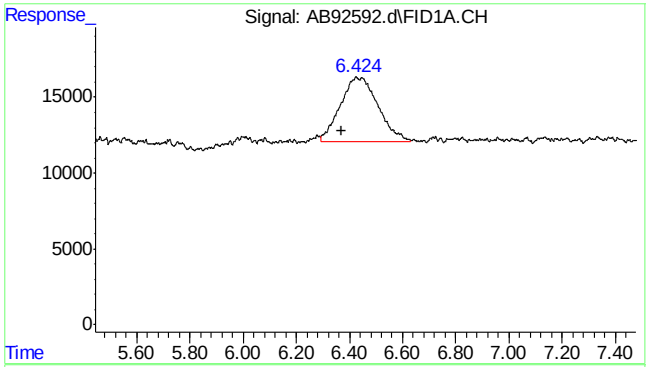
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:16 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



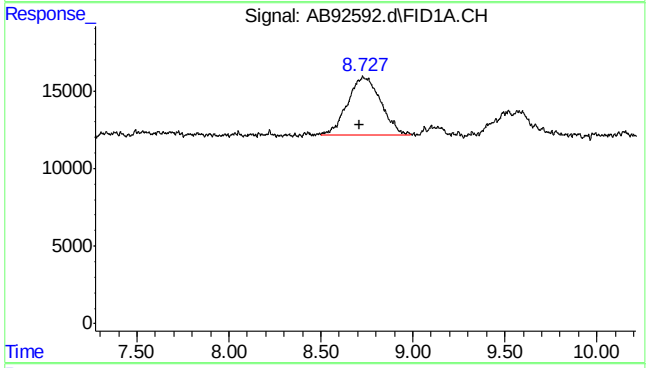


SGS ACCUTEST MC45678



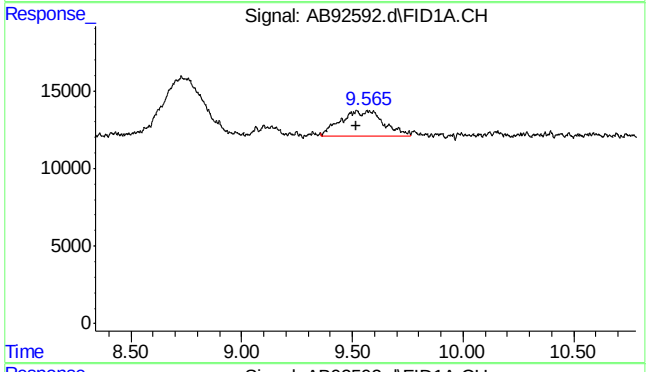
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 423417
Conc: 1.13 ppb m



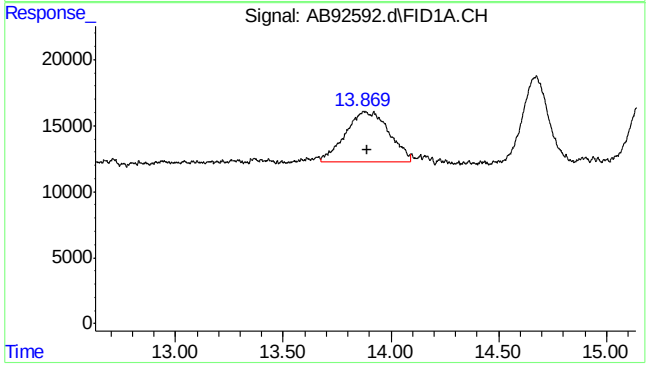
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 474249
Conc: 1.10 ppb m



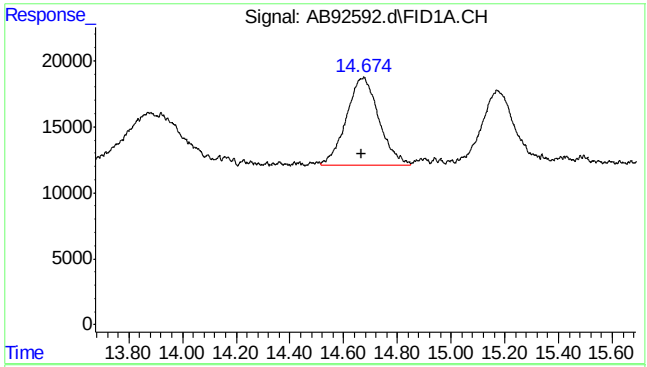
#3 mtbe

R.T.: 9.565 min
Delta R.T.: 0.047 min
Response: 222666
Conc: 1.01 ppb m



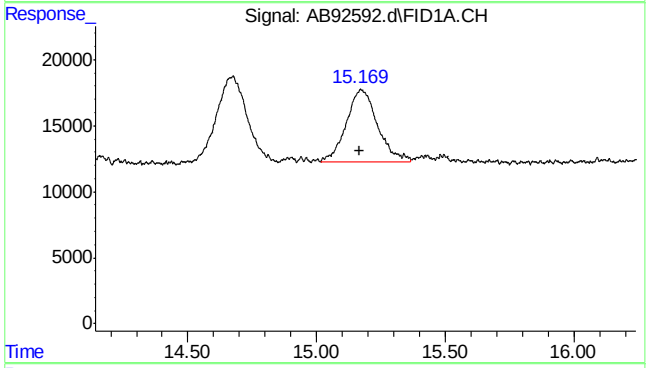
#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 532157
Conc: 1.09 ppb m



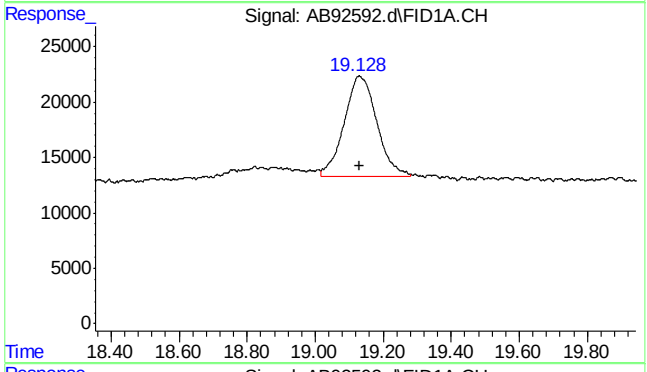
#5 benzene

R.T.: 14.674 min
Delta R.T.: 0.007 min
Response: 555388
Conc: 1.00 ppb m



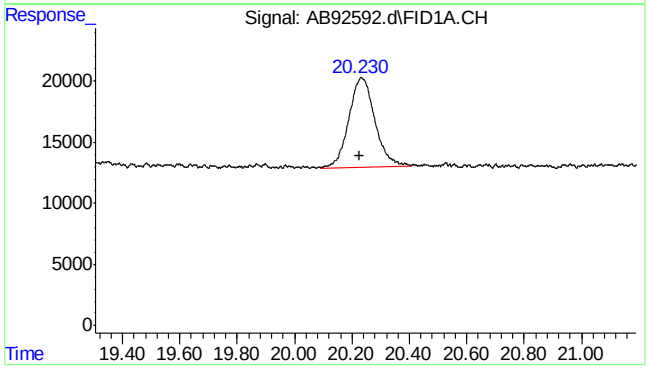
#6 fluorobenzene

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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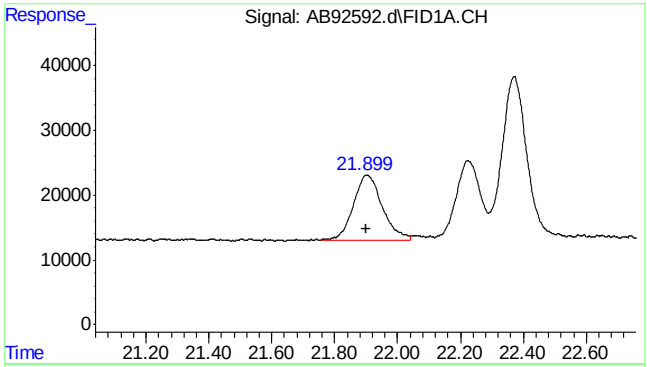
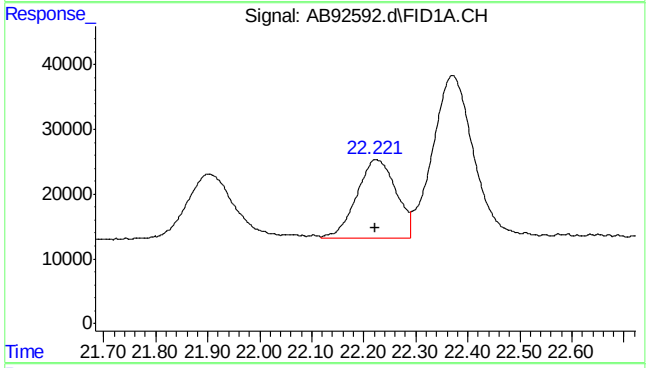


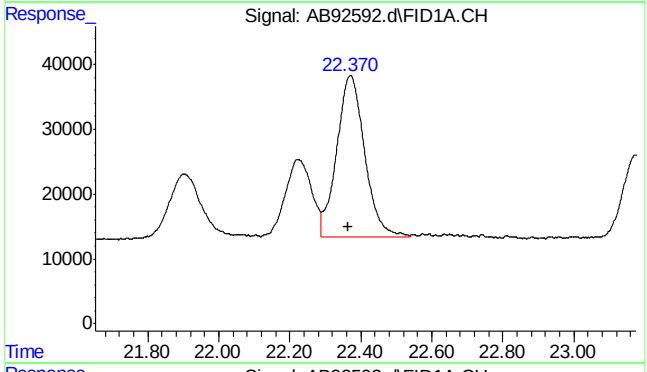
#11 rt20/25

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 636900
Conc: 1.02 ppb m



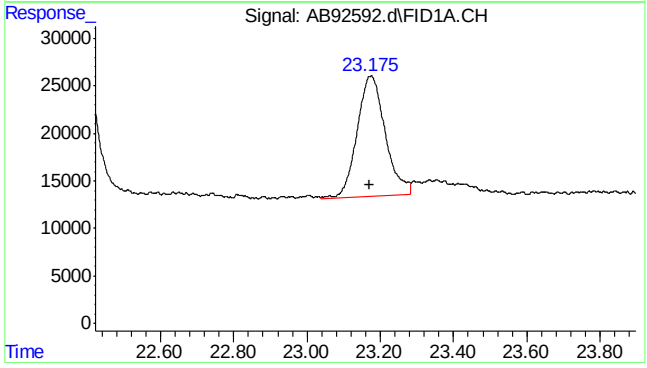
#13 ethylbenzene

R.T.: 22.221 min
Delta R.T.: -0.002 min
Response: 649345
Conc: 1.00 ppb m



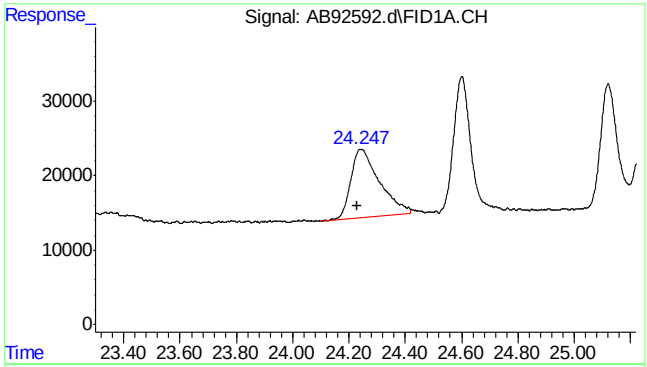
#14 m,p-xylene

R.T.: 22.370 min
Delta R.T.: 0.005 min
Response: 1369525
Conc: 2.02 ppb m



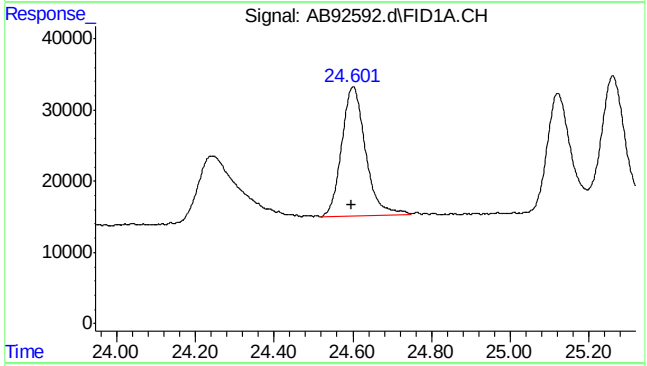
#15 o-xylene

R.T.: 23.175 min
Delta R.T.: 0.005 min
Response: 672755
Conc: 0.99 ppb m



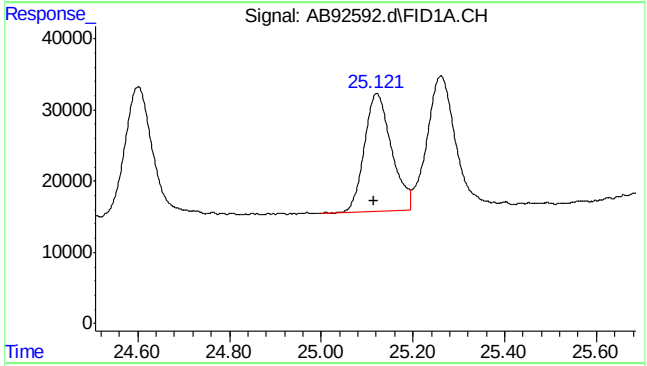
#16 decane

R.T.: 24.230 min
Delta R.T.: 0.000 min
Response: 652274
Conc: 1.02 ppb m



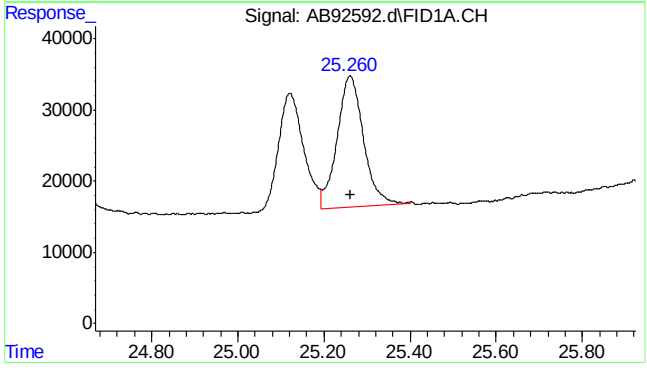
#17 1,3,5-trimethylbenzene

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

7.5.9

7

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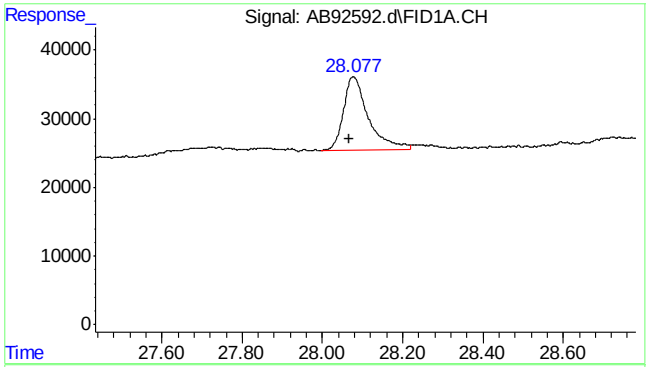
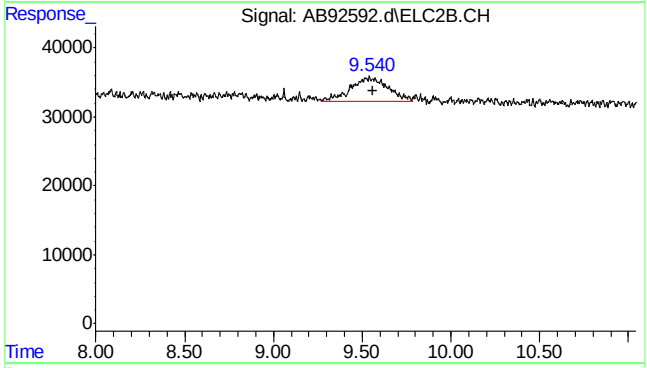


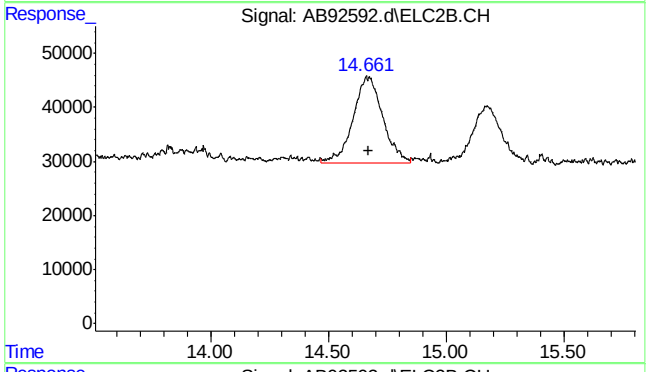
#20 naphthalene

R.T.: 28.077 min
Delta R.T.: 0.009 min
Response: 459832
Conc: 1.20 ppb m



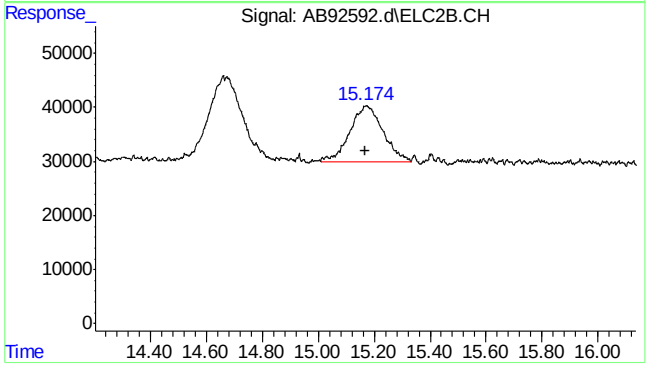
#23 mtbe #2

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



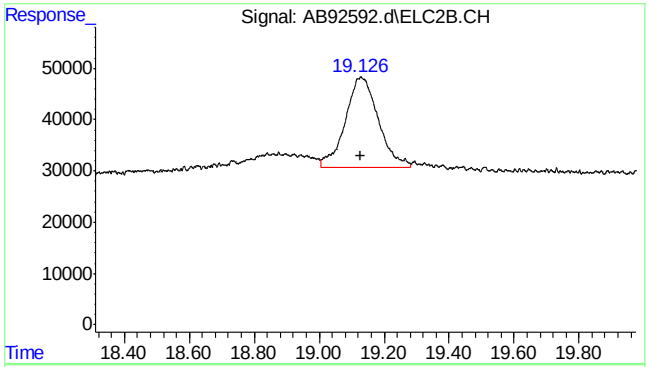
#25 fluorobenzene #2

R.T.: 15.174 min
Delta R.T.: 0.007 min
Response: 871999
Conc: 1.00 ppb m

7.5.9

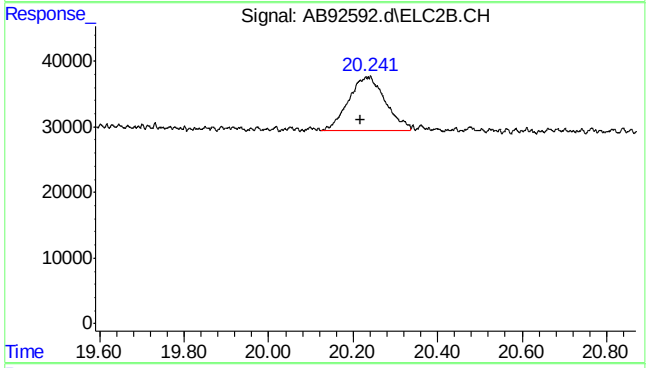
7

SGS ACCUTEST MC45678



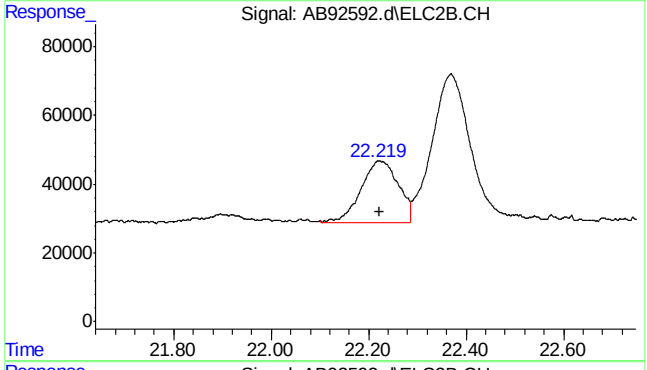
#26 toluene #2

R.T.: 19.126 min
Delta R.T.: 0.000 min
Response: 1234262
Conc: 1.00 ppb m



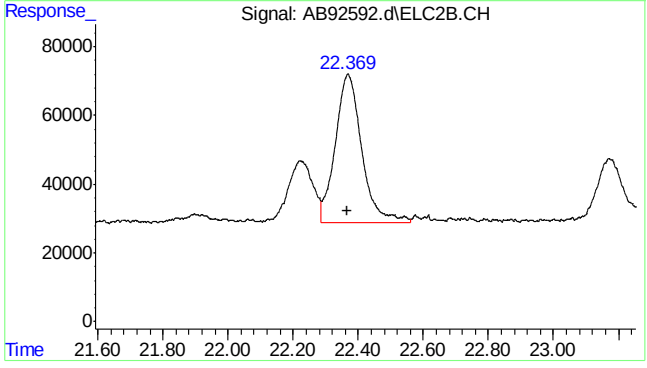
#27 2,3,4-trifluorotoluene #2

R.T.: 20.241 min
Delta R.T.: 0.023 min
Response: 500356
Conc: 1.04 ppb m



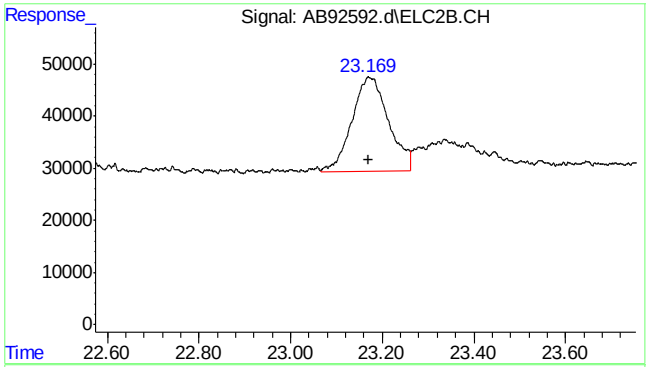
#28 ethylbenzene #2

R.T.: 22.219 min
Delta R.T.: -0.004 min
Response: 964169
Conc: 0.98 ppb m



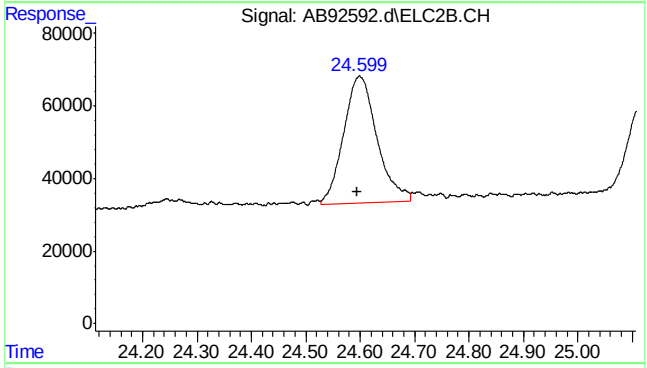
#29 m,p-xylene #2

R.T.: 22.369 min
Delta R.T.: 0.004 min
Response: 2432291
Conc: 2.00 ppb m



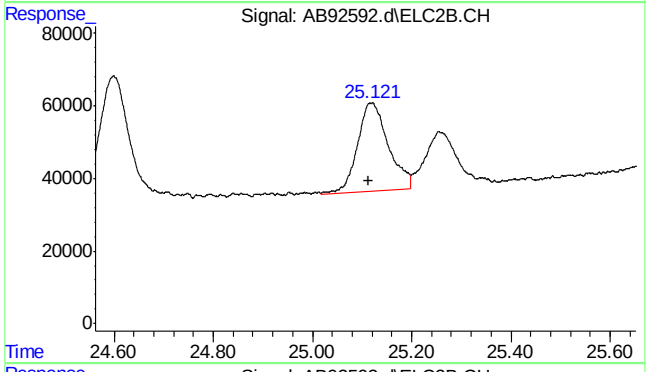
#30 o-xylene #2

R.T.: 23.170 min
Delta R.T.: 0.000 min
Response: 1005511
Conc: 1.00 ppb



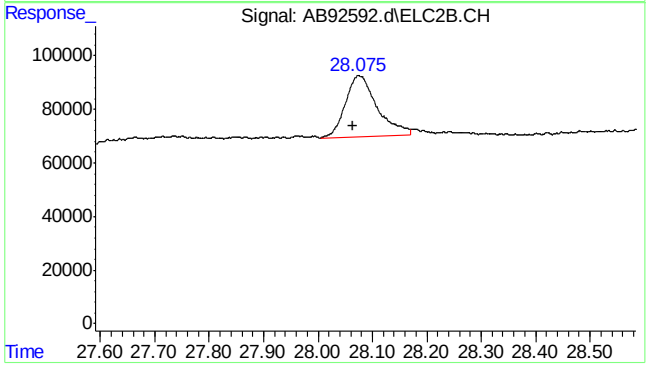
#31 1,3,5-trimethylbenzene #2

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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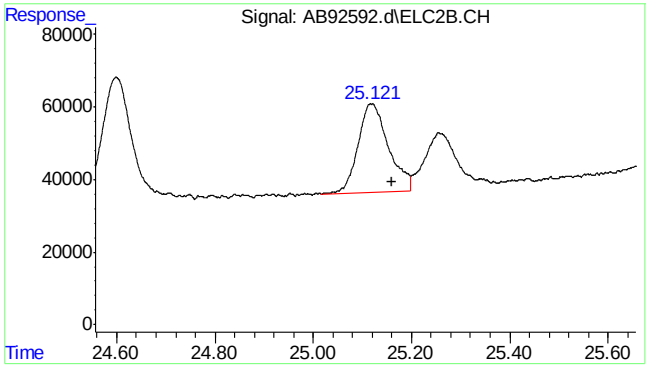


#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.160 min
Delta R.T.:	0.000 min
Response:	1056385
Conc:	1.00 ppb m

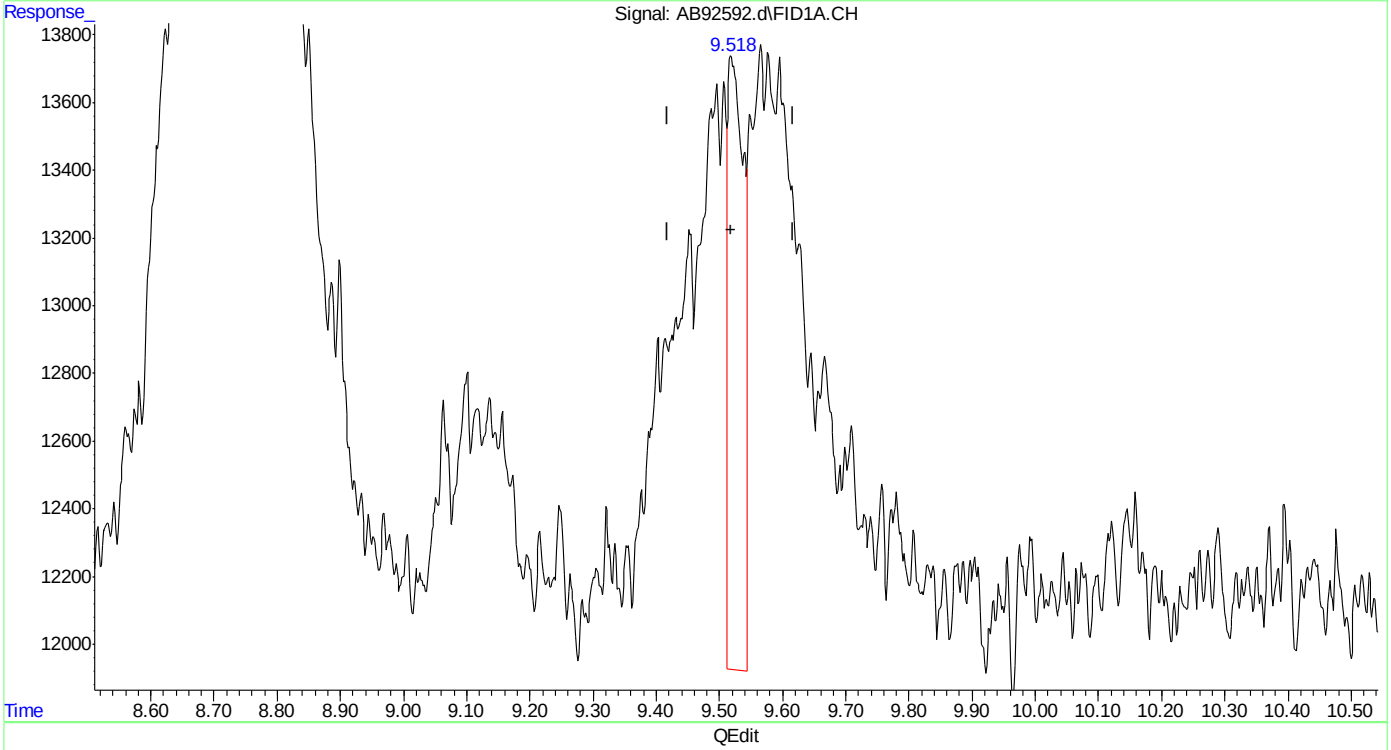
SGS ACCUTEST MC45678

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

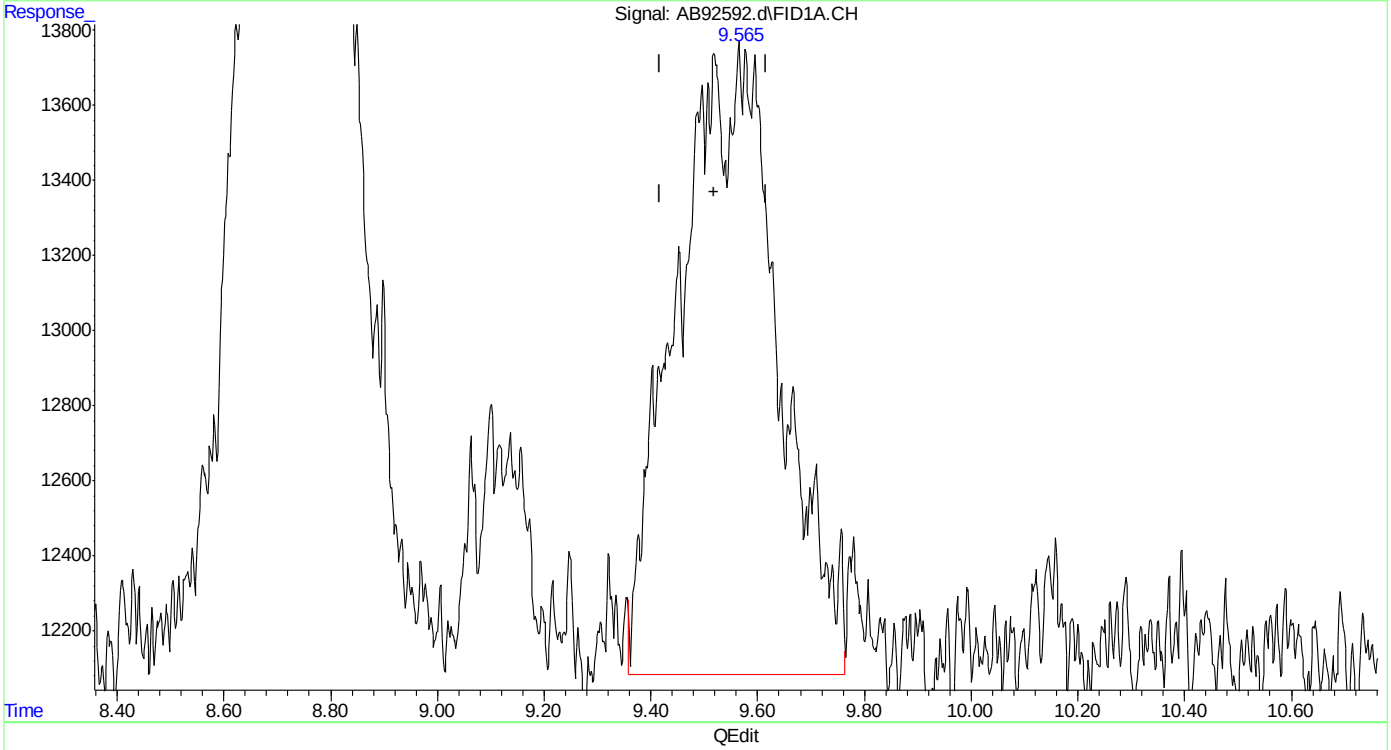
(+) = Expected Retention Time

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

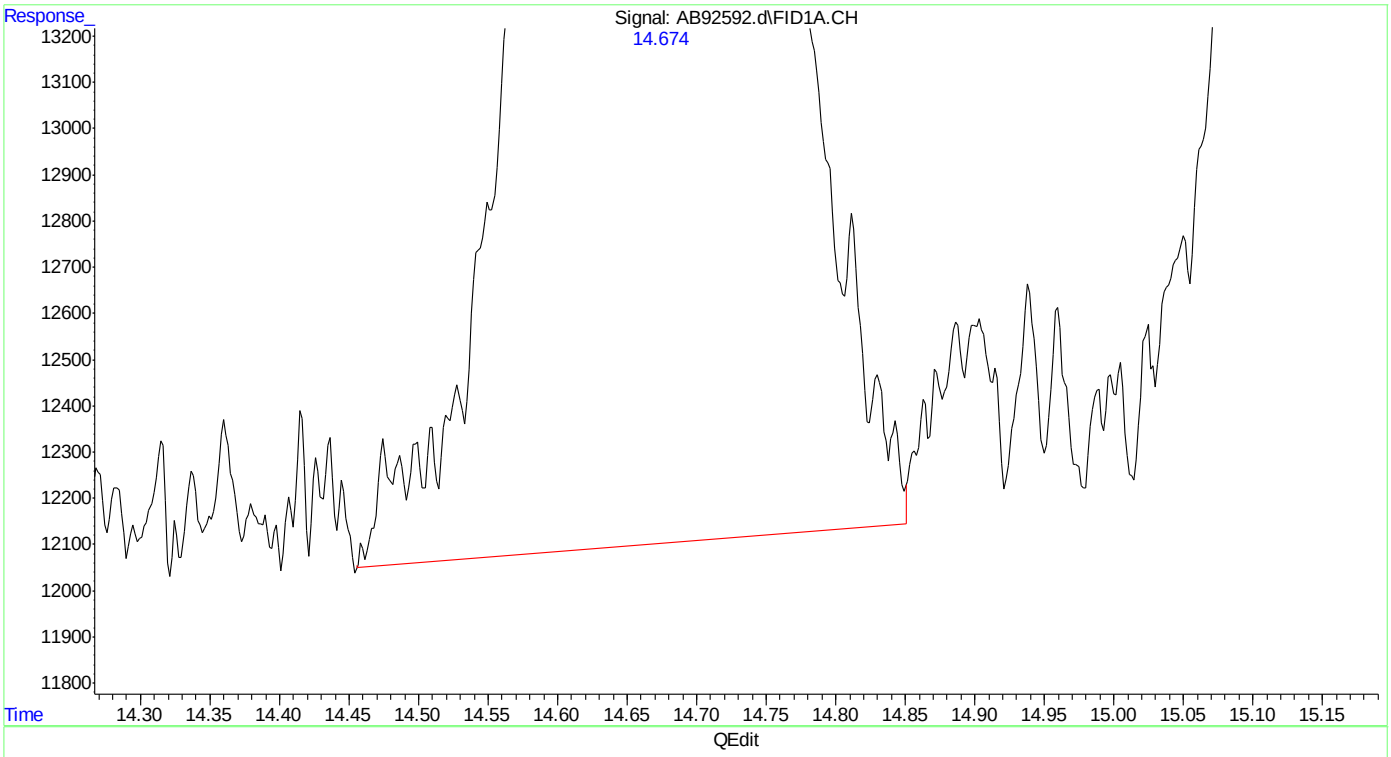
(+) = Expected Retention Time

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

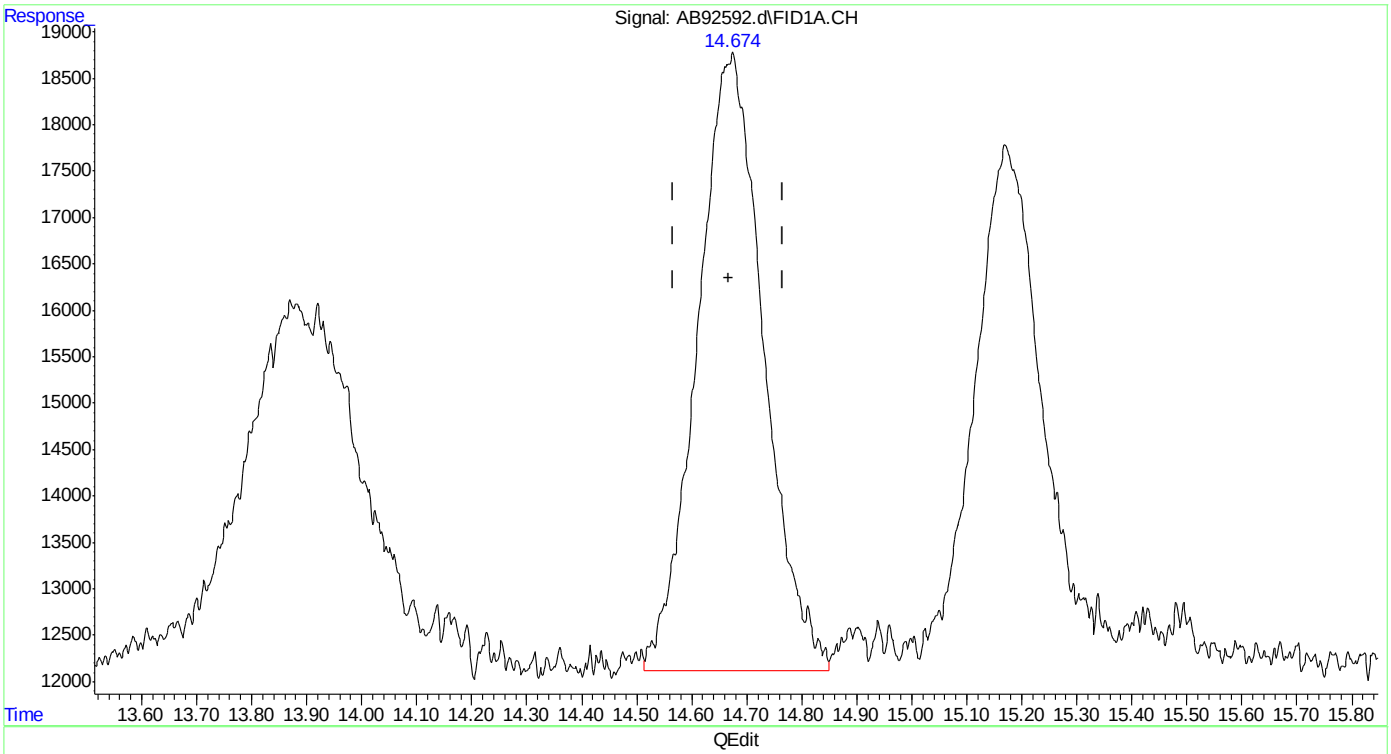
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:08 2016

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

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

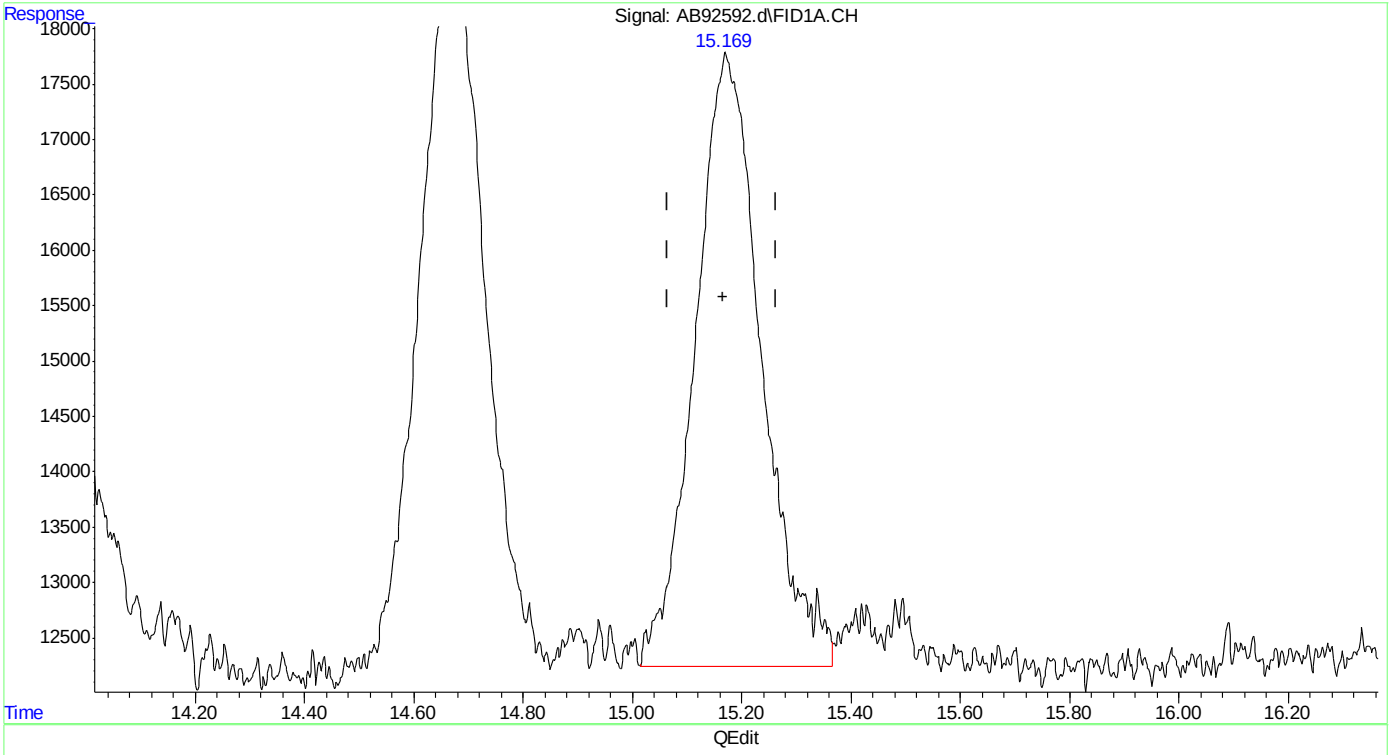
SGS ACCUTEST MC45678

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 MC45678

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

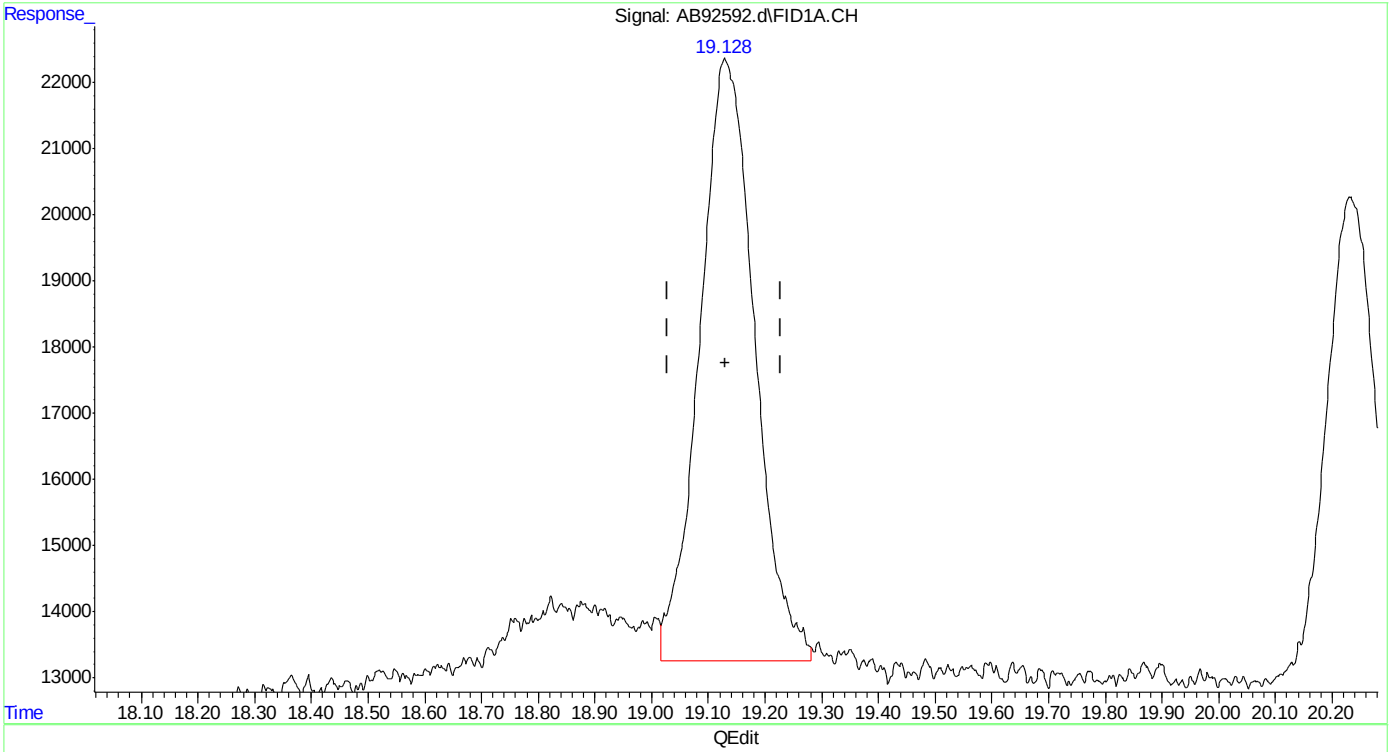
(+) = Expected Retention Time

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

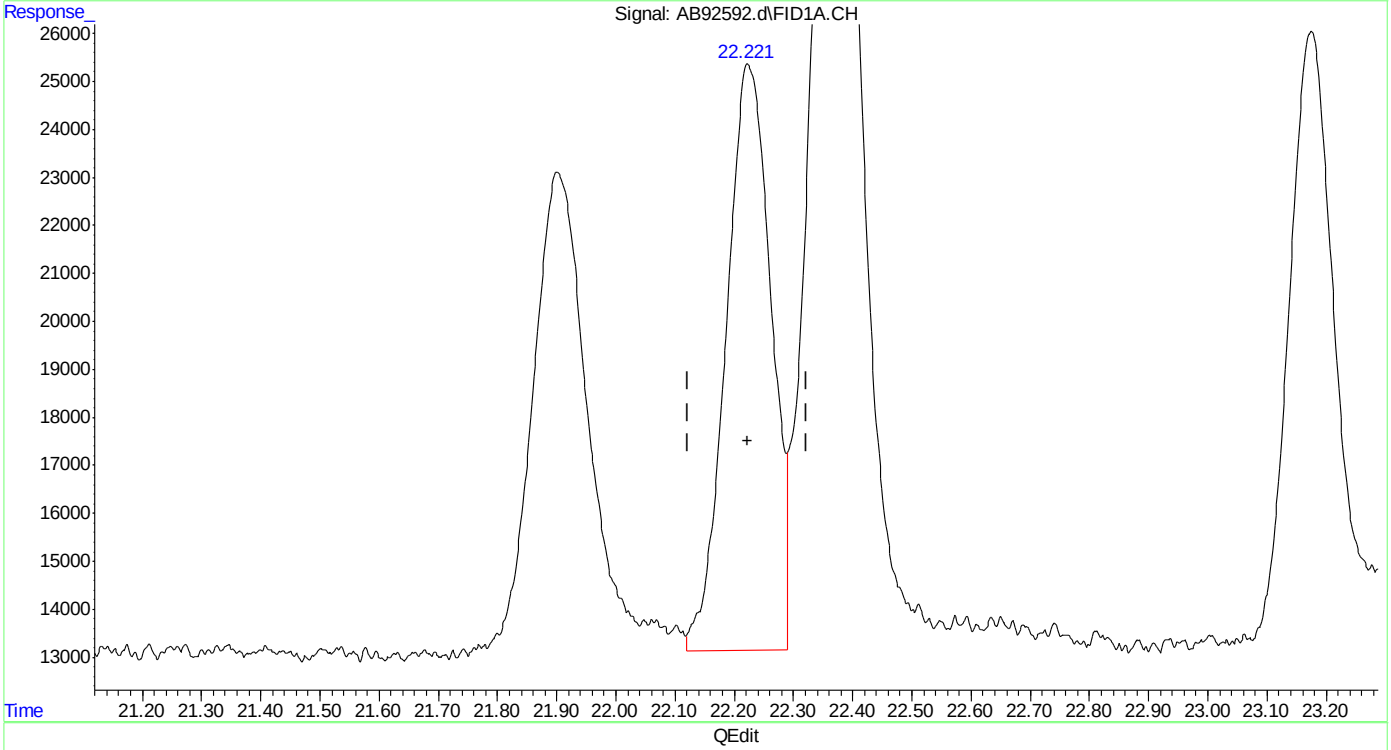
(+) = Expected Retention Time

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

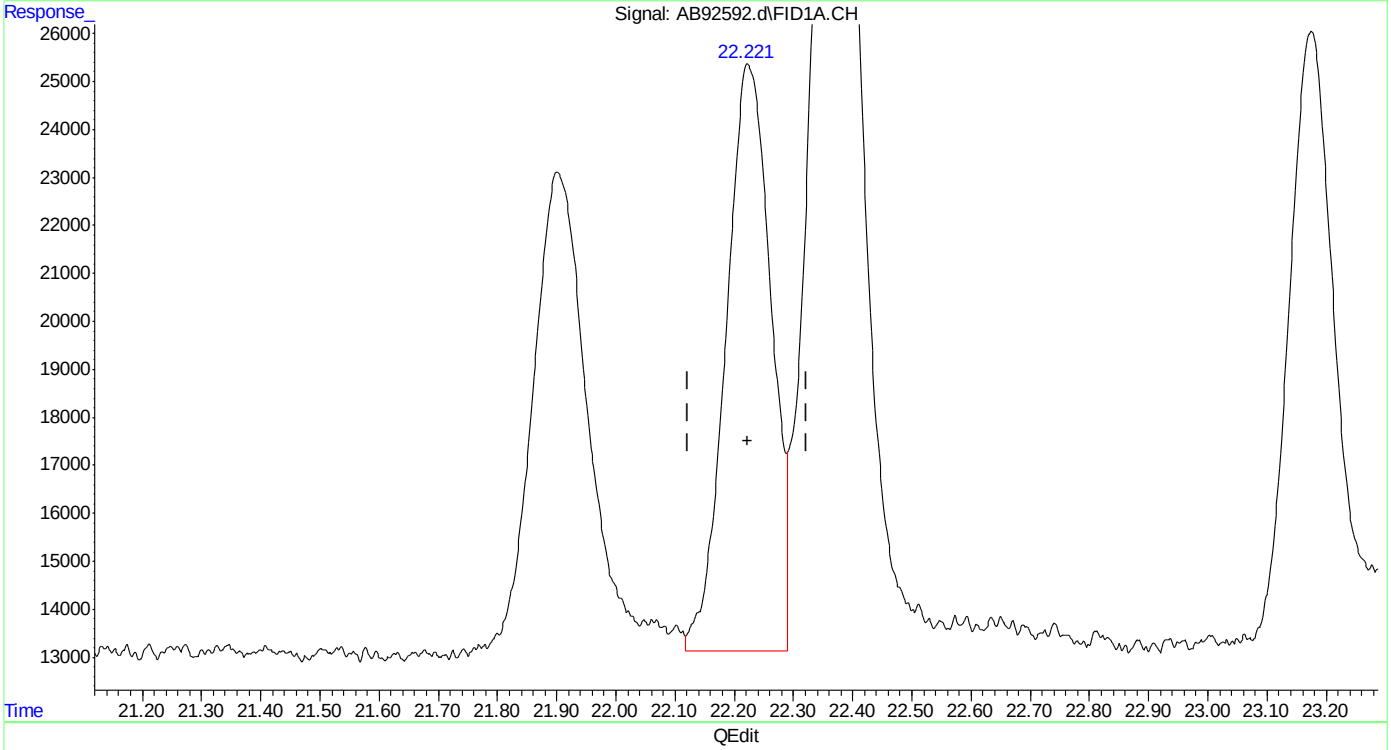
(+) = Expected Retention Time

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

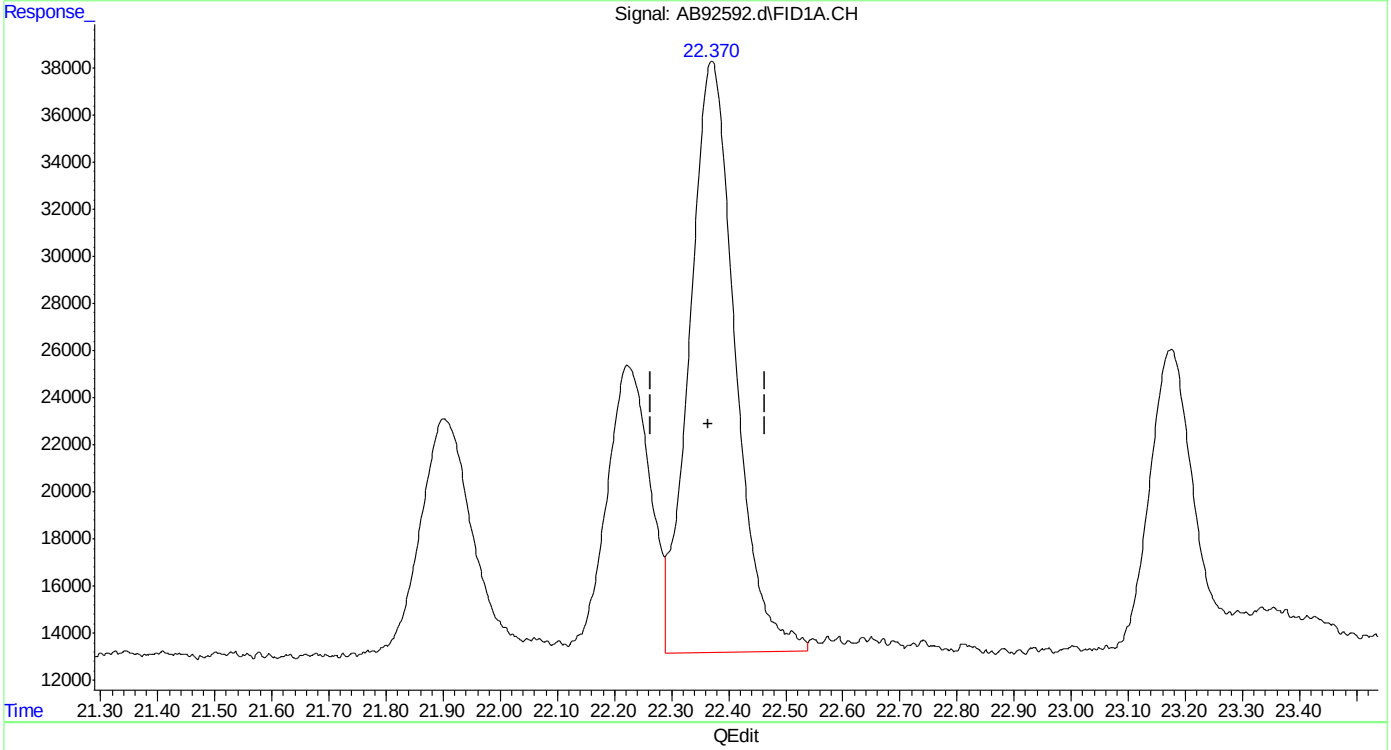
(+) = Expected Retention Time

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

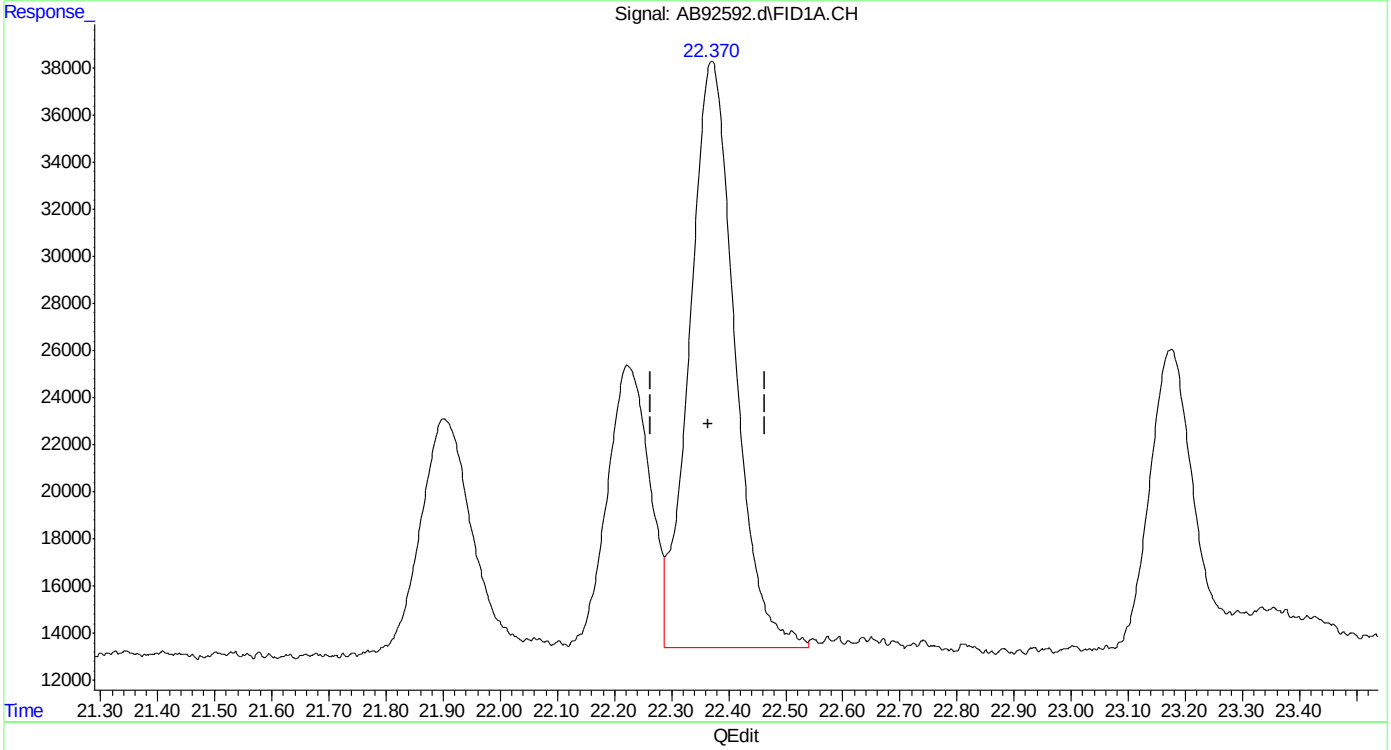
(+) = Expected Retention Time

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

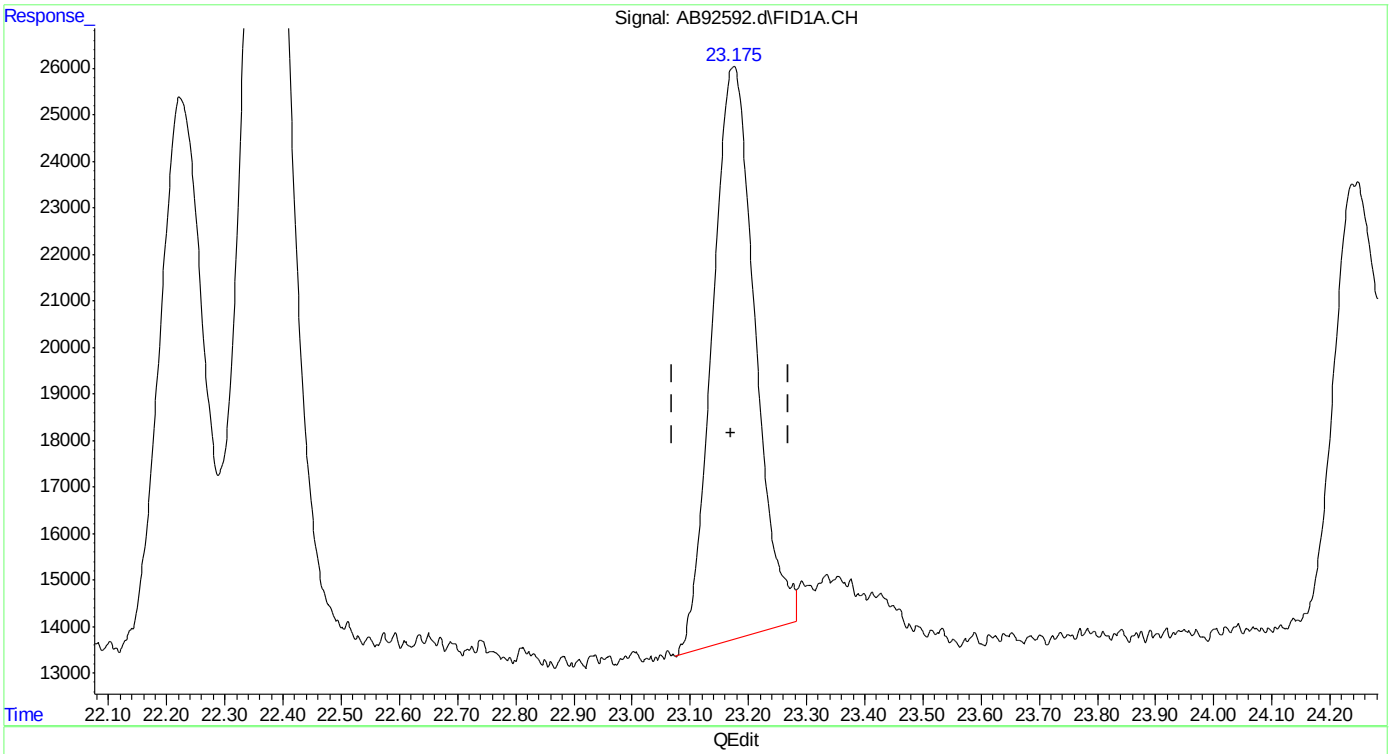
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:35 2016

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

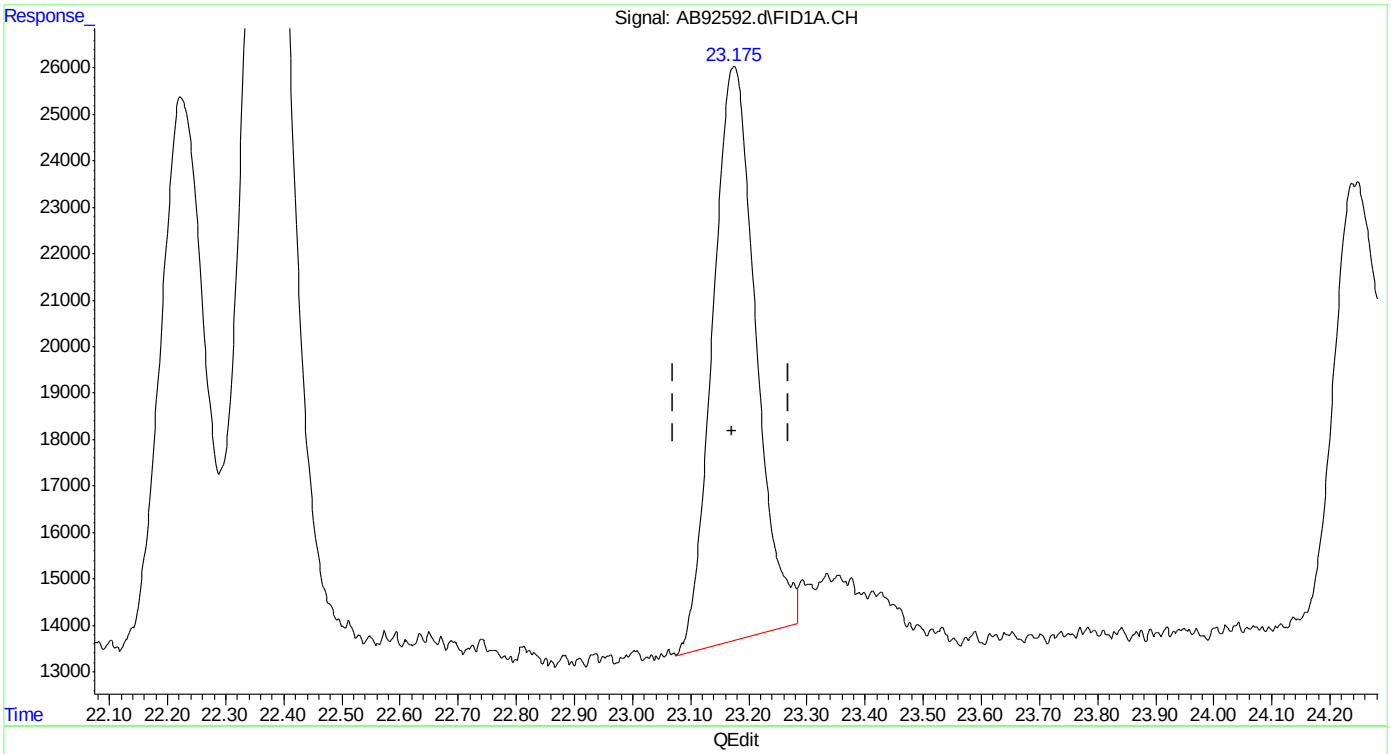
SGS ACCUTEST MC45678

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

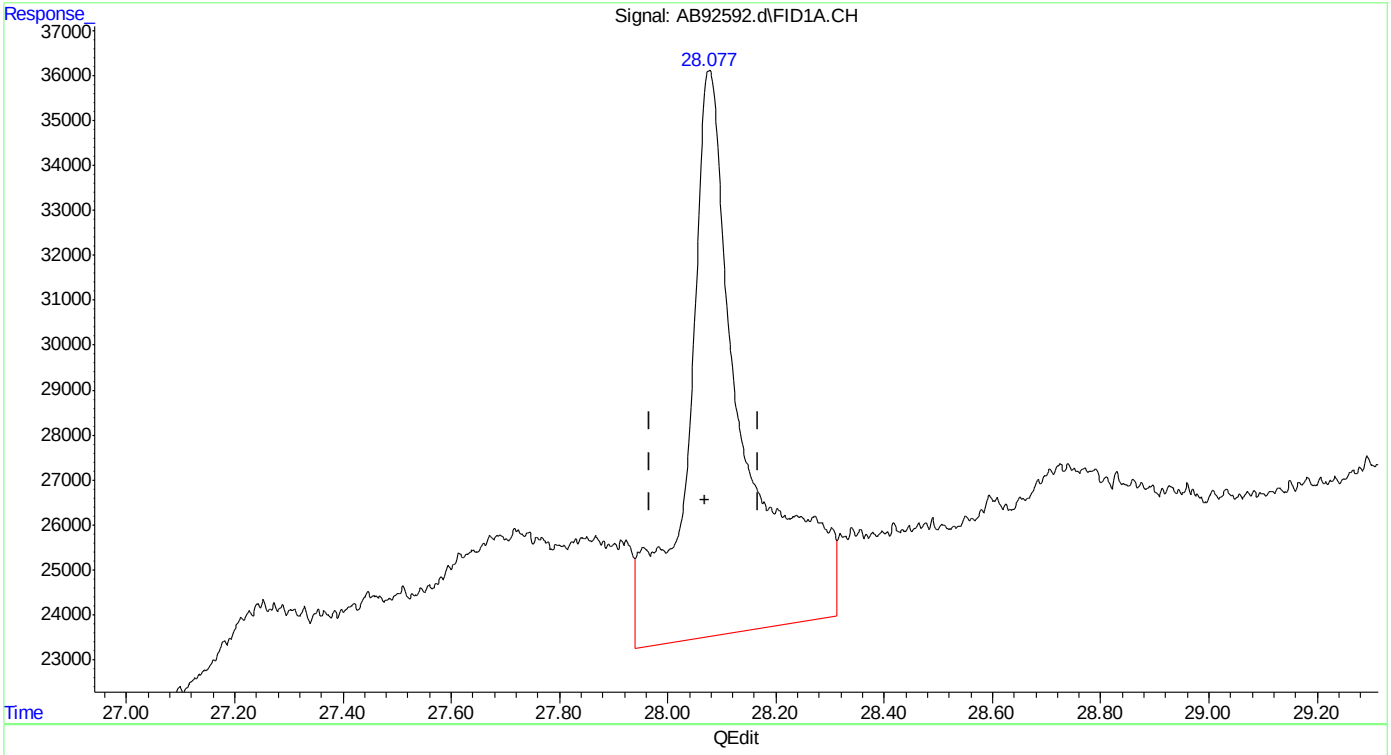
SGS ACCUTEST MC45678

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

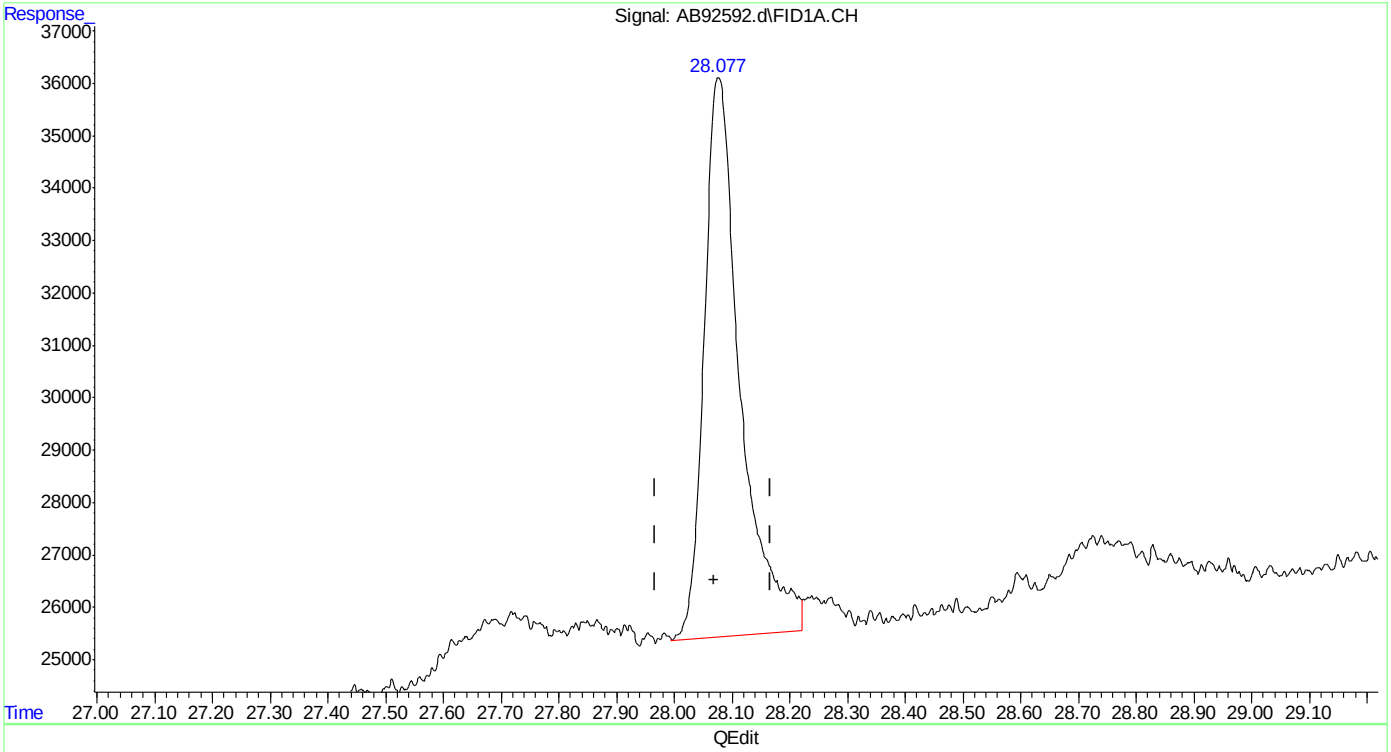
SGS ACCUTEST MC45678

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

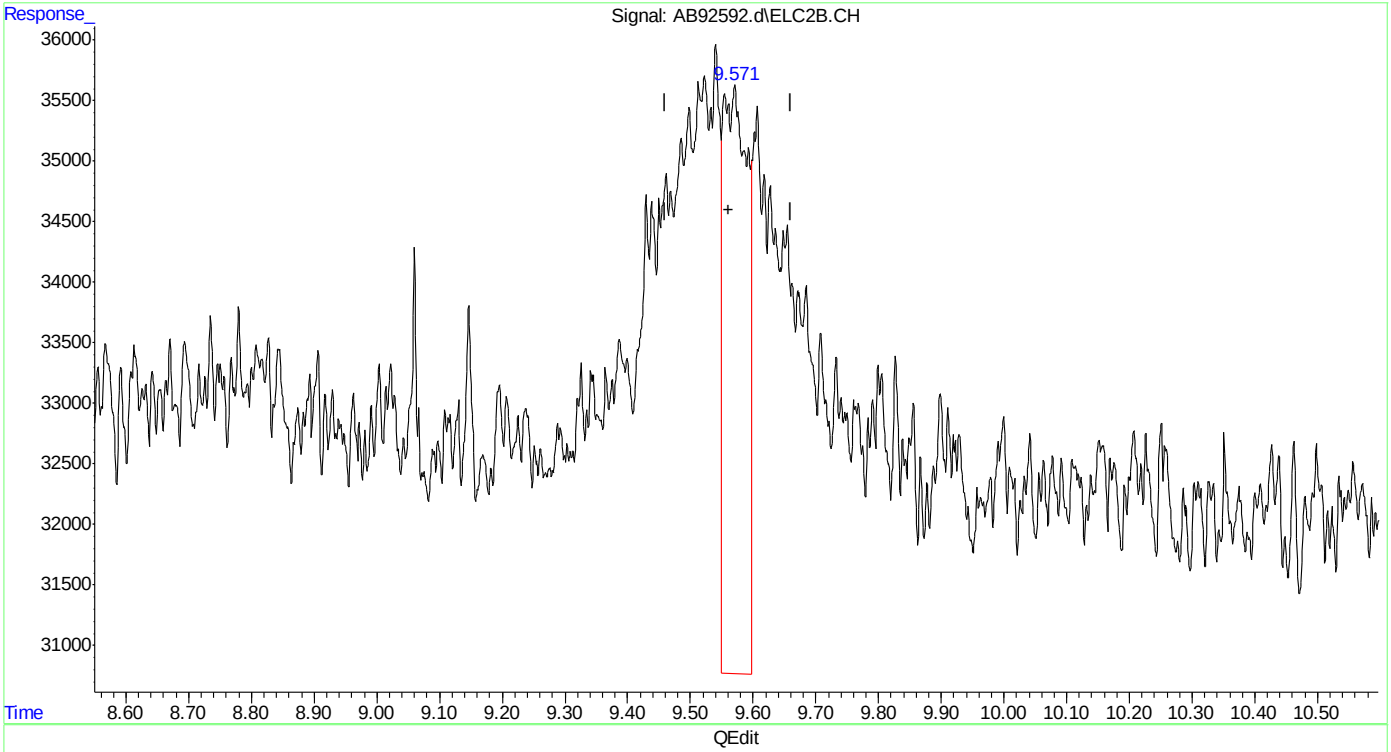
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:00:40 2016

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

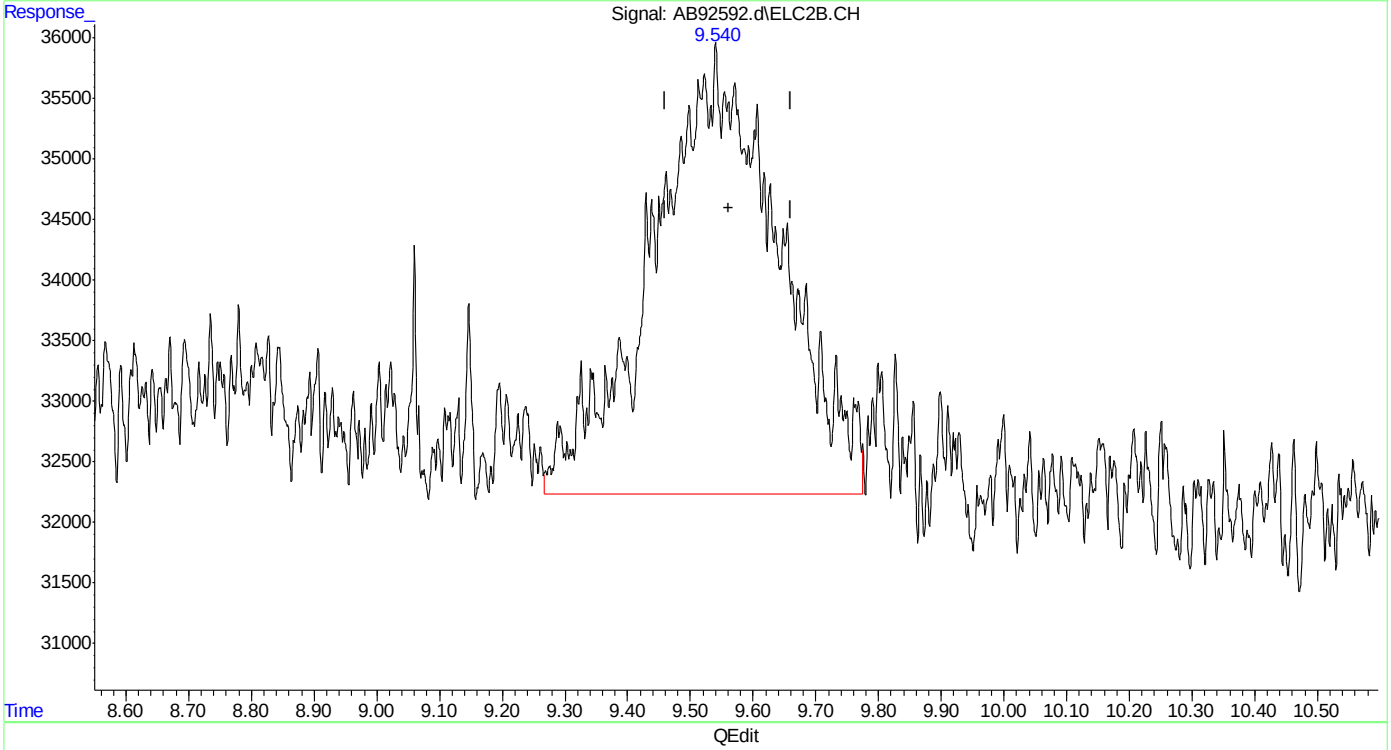
(+) = Expected Retention Time

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

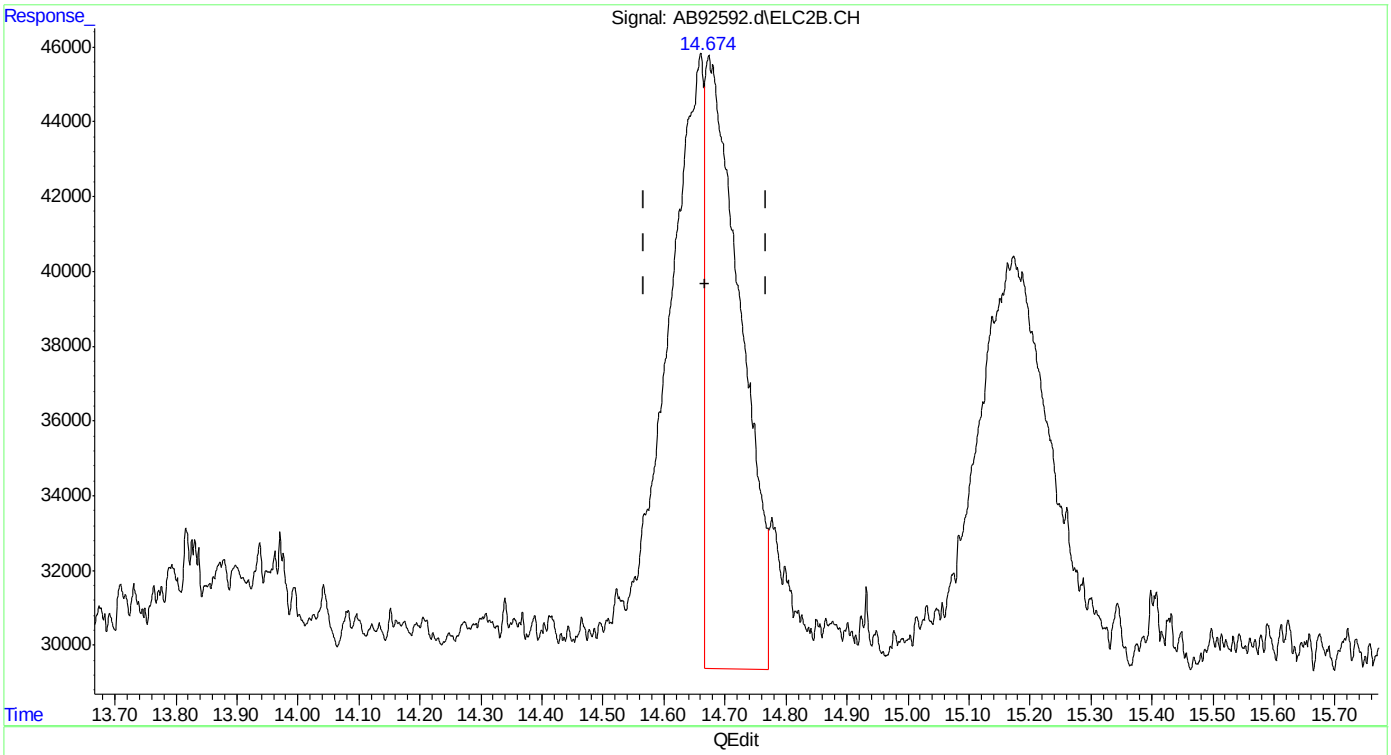
SGS ACCUTEST MC45678

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

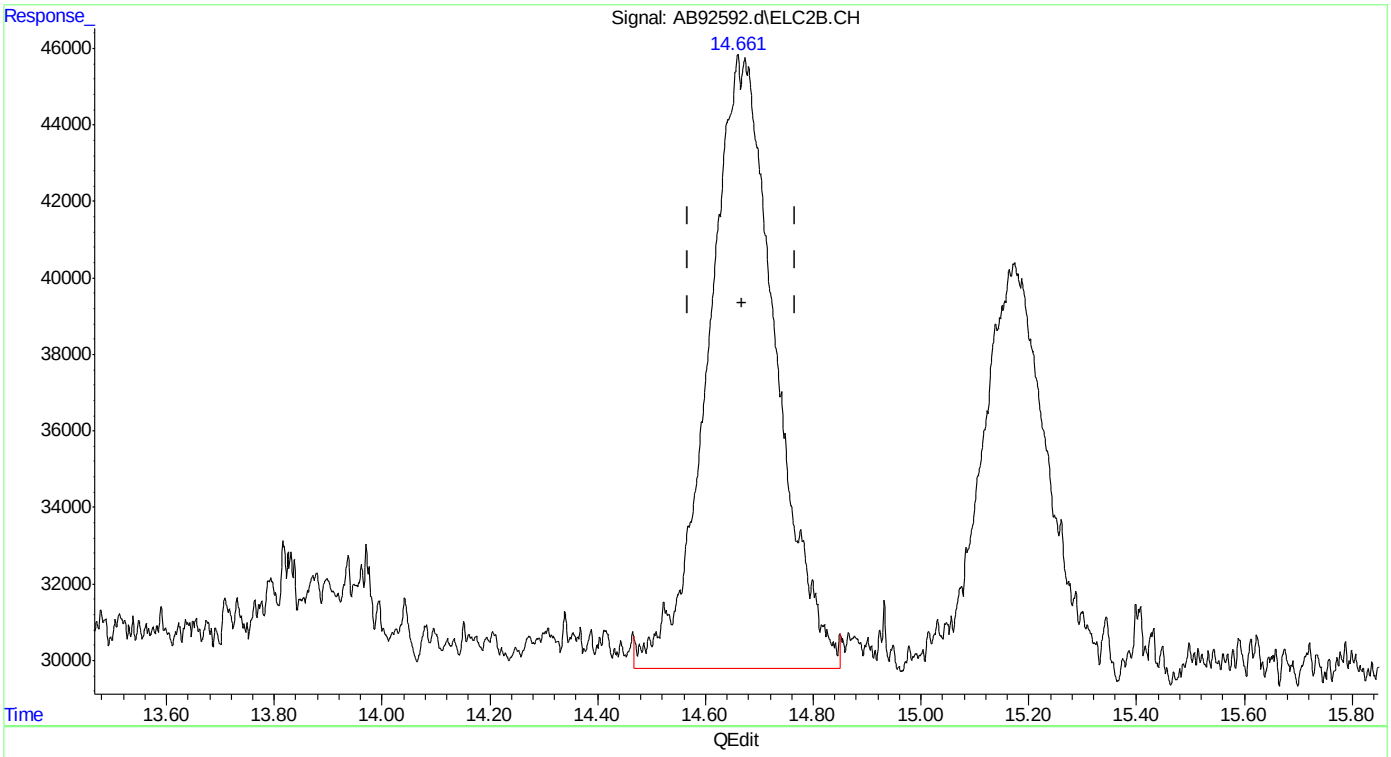
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:01:00 2016

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

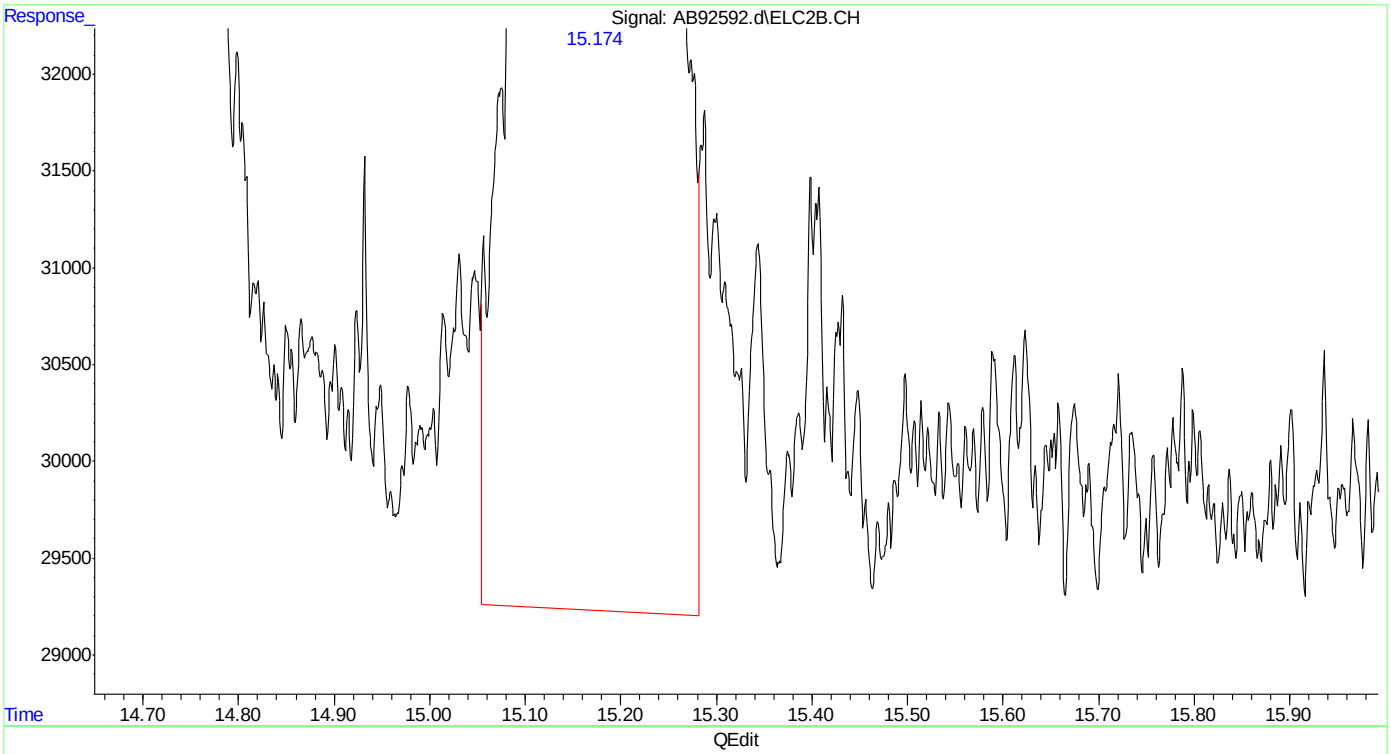
SGS ACCUTEST MC45678

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

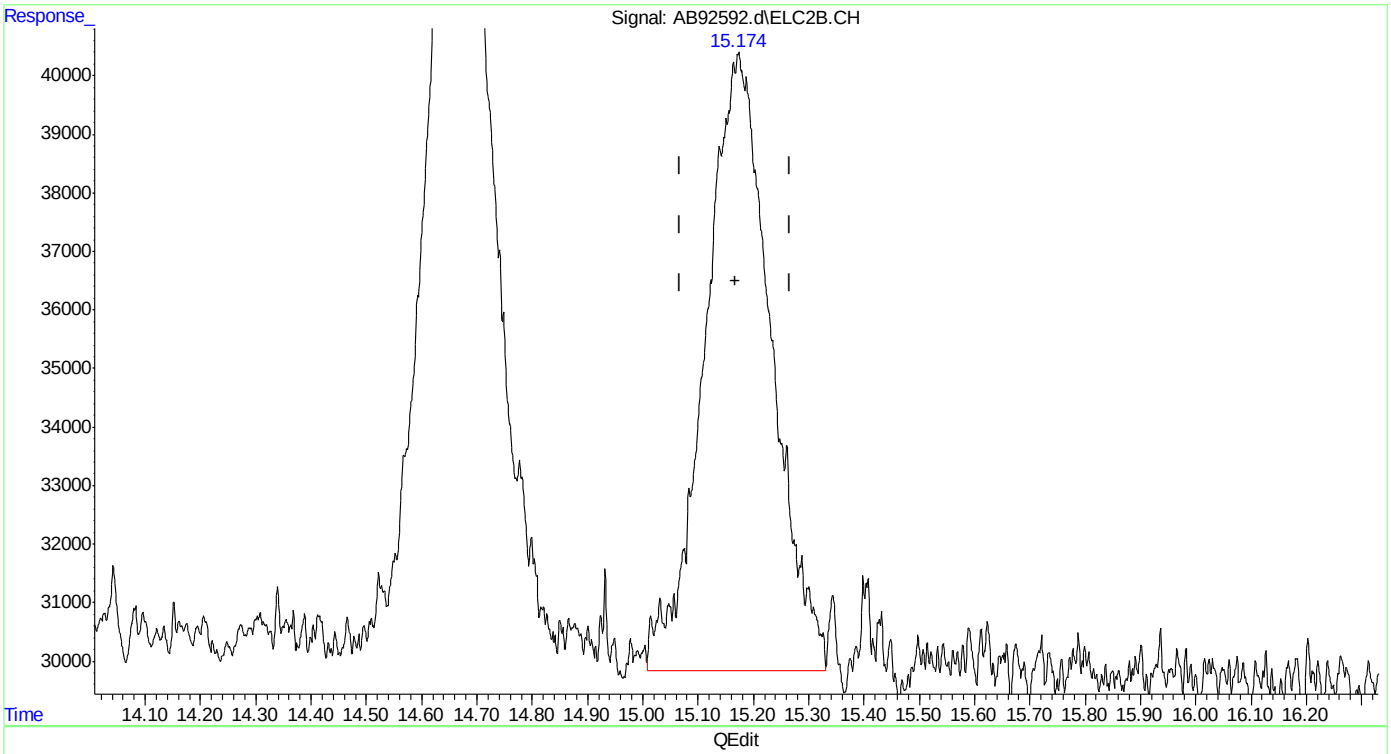
SGS ACCUTEST MC45678

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

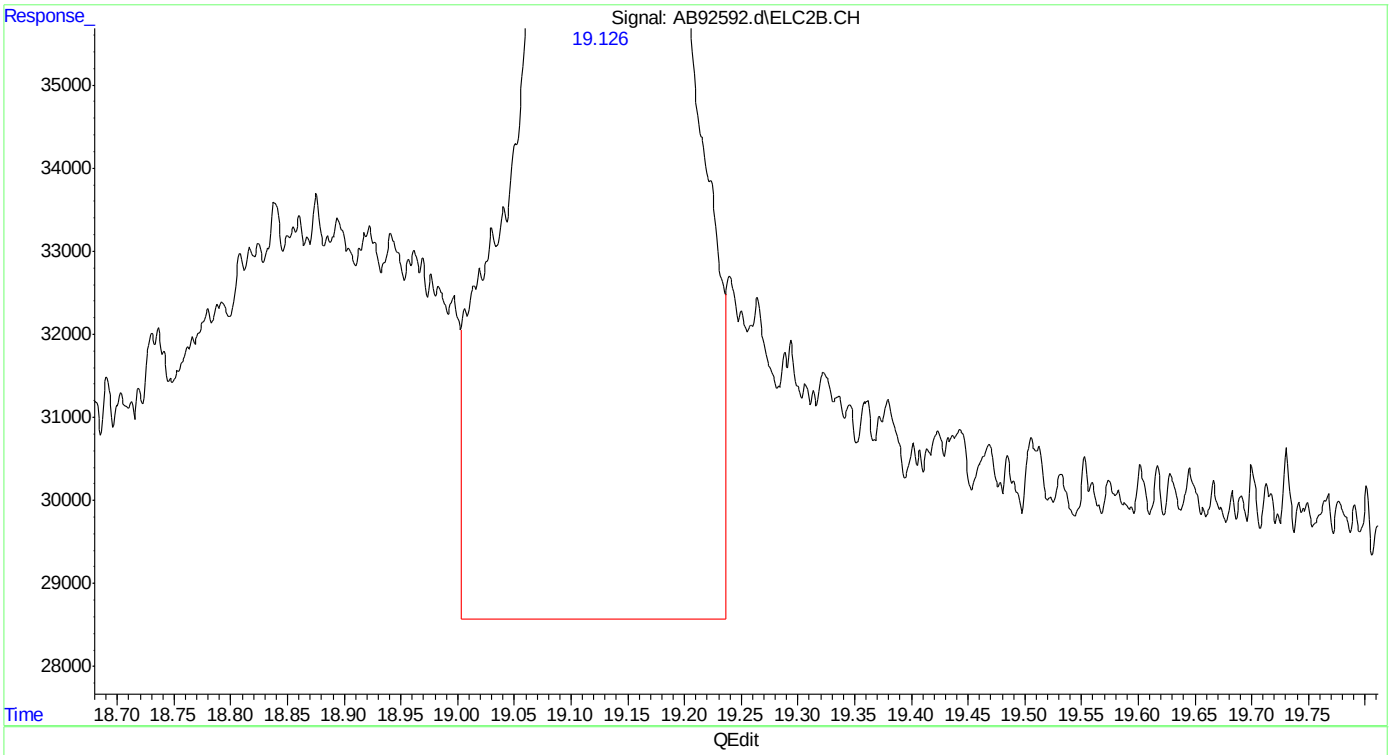
(+) = Expected Retention Time

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

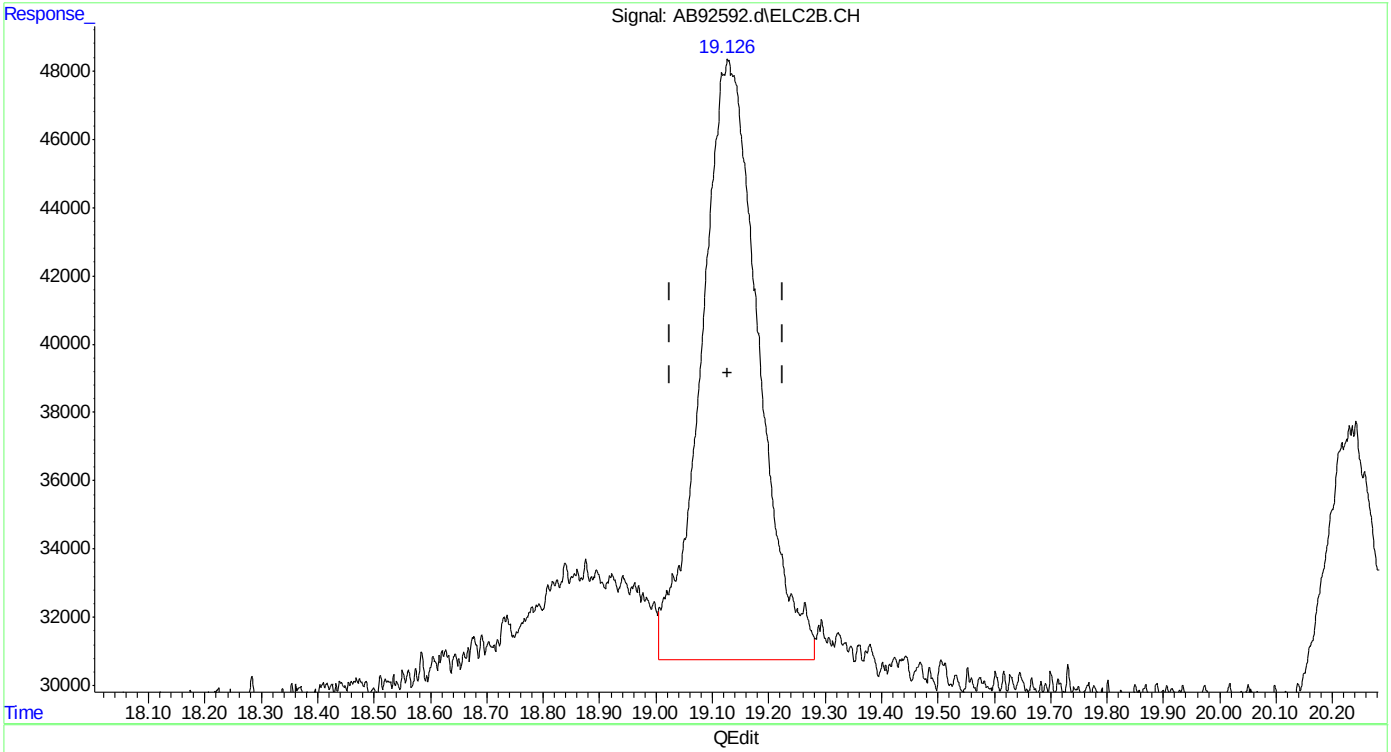
SGS ACCUTEST MC45678

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

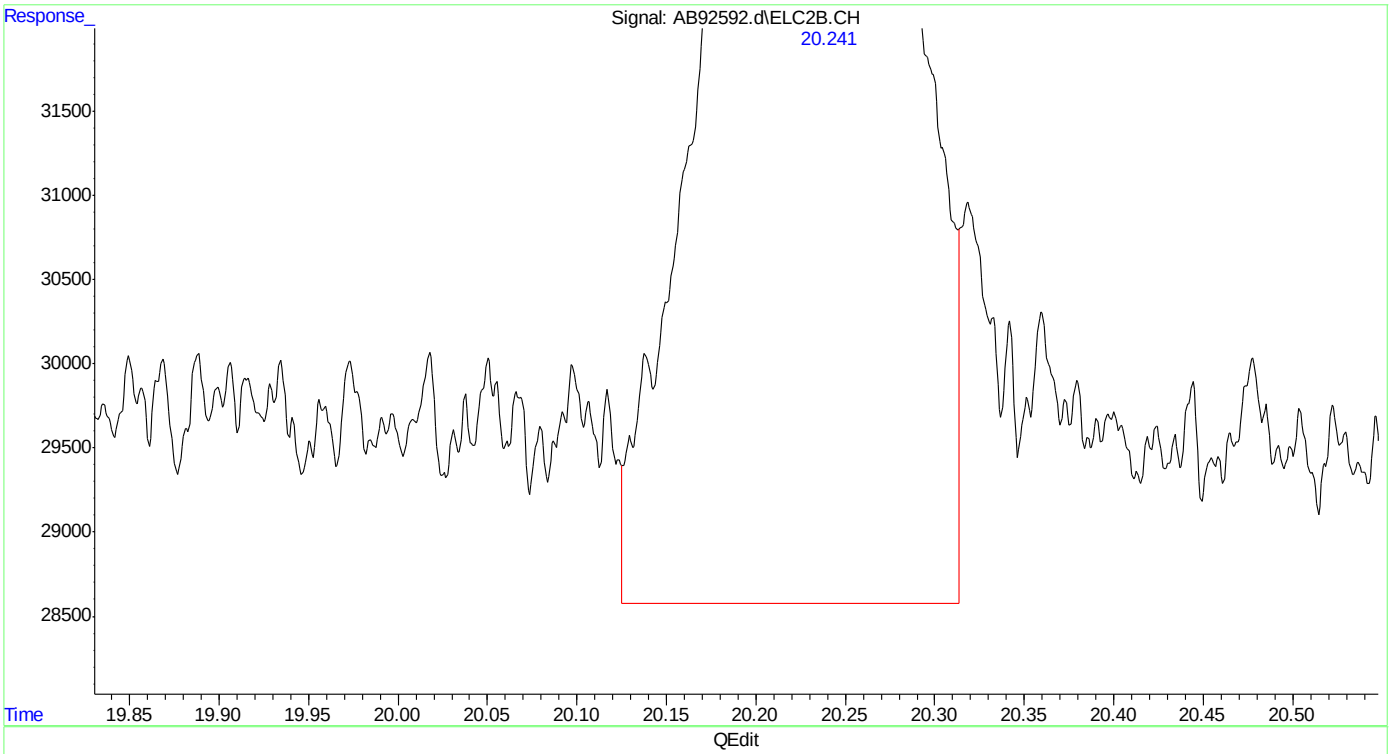
SGS ACCUTEST MC45678

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

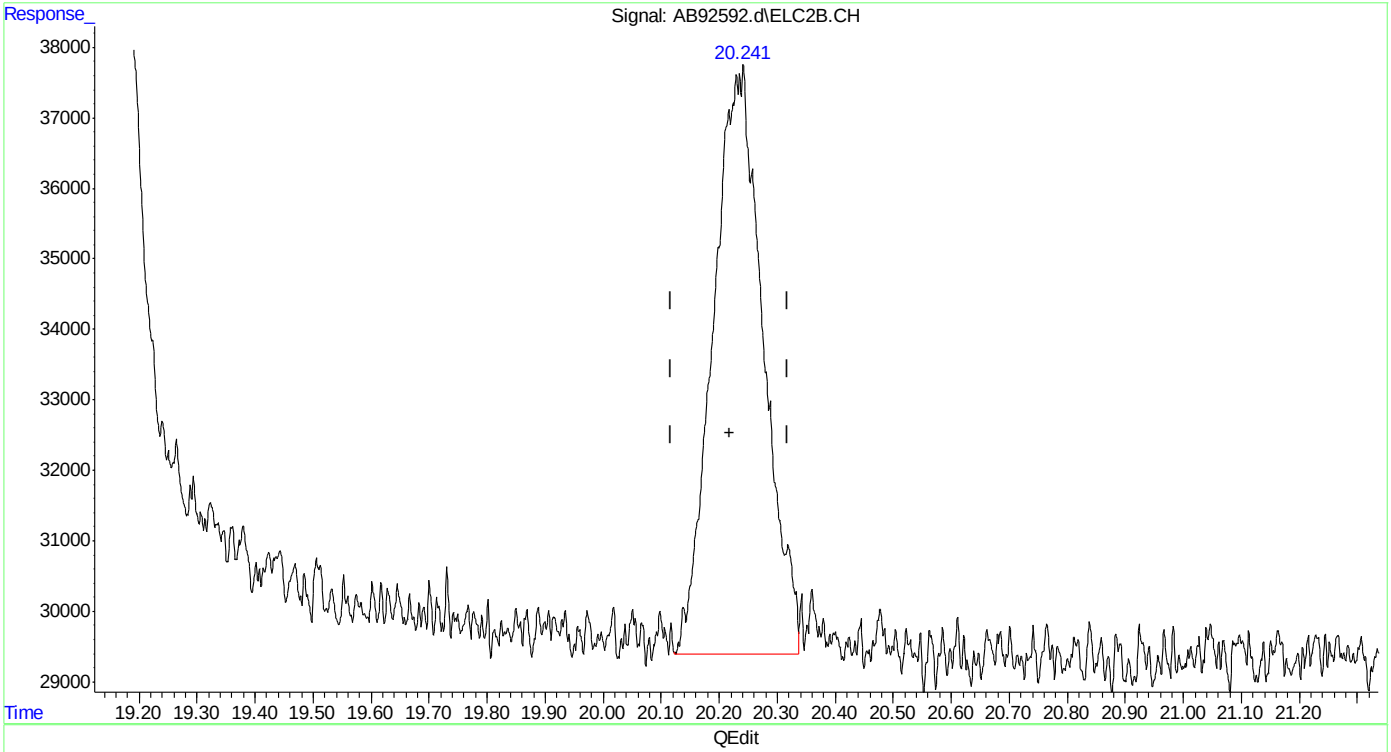
(+) = Expected Retention Time

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

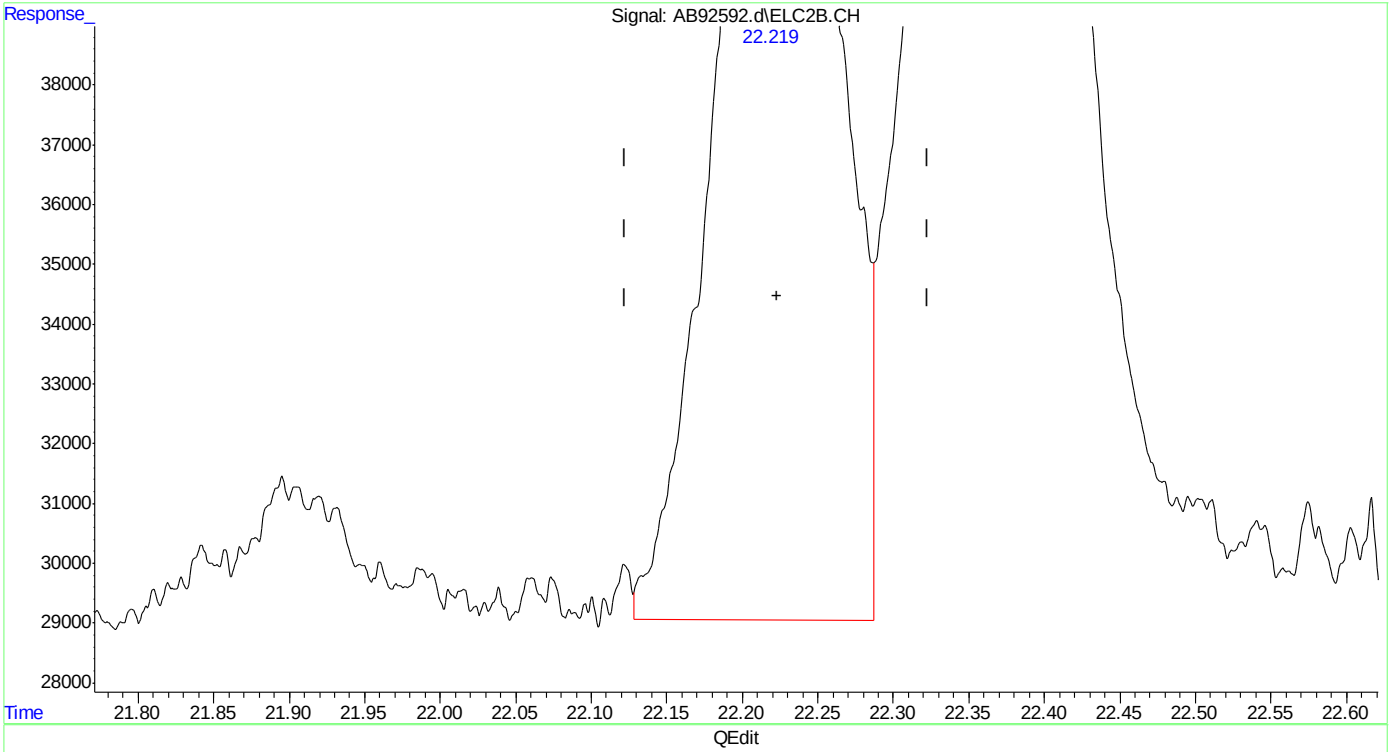
(+) = Expected Retention Time

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

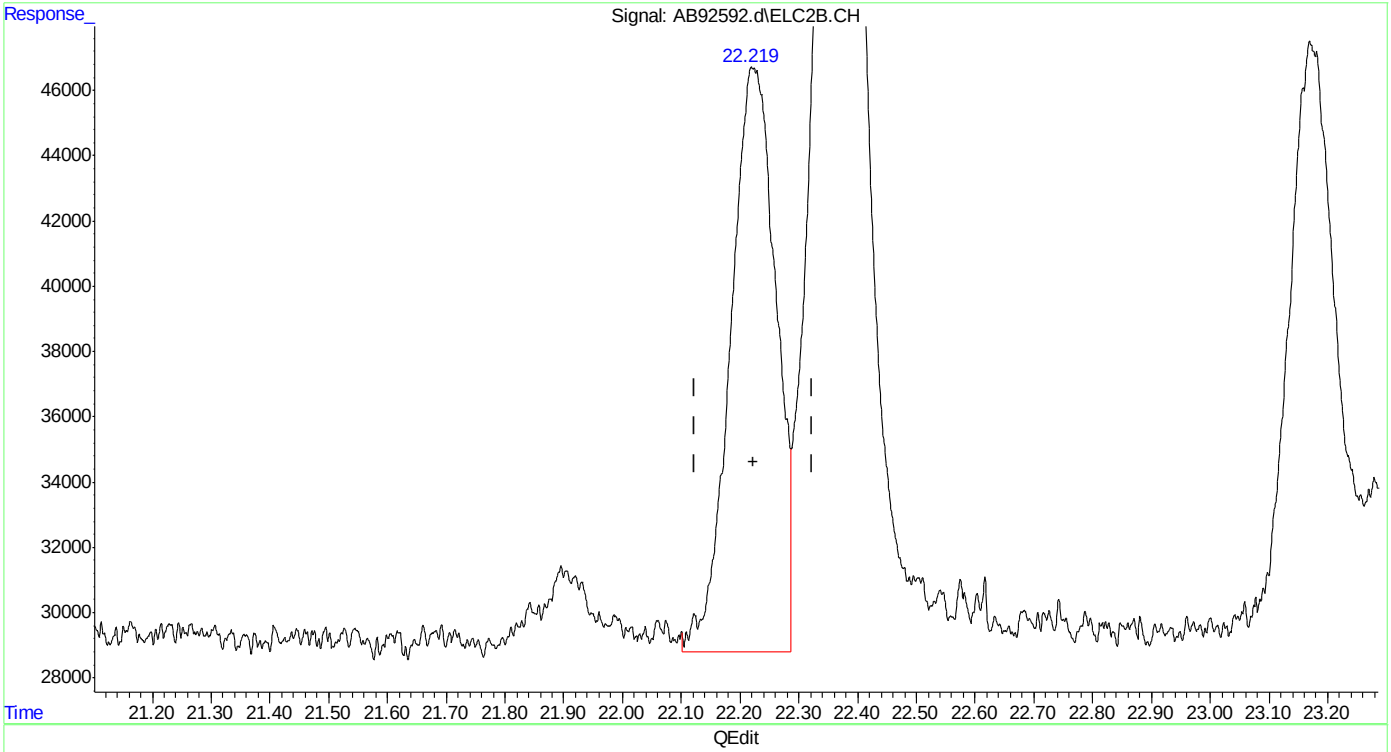
(+) = Expected Retention Time

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

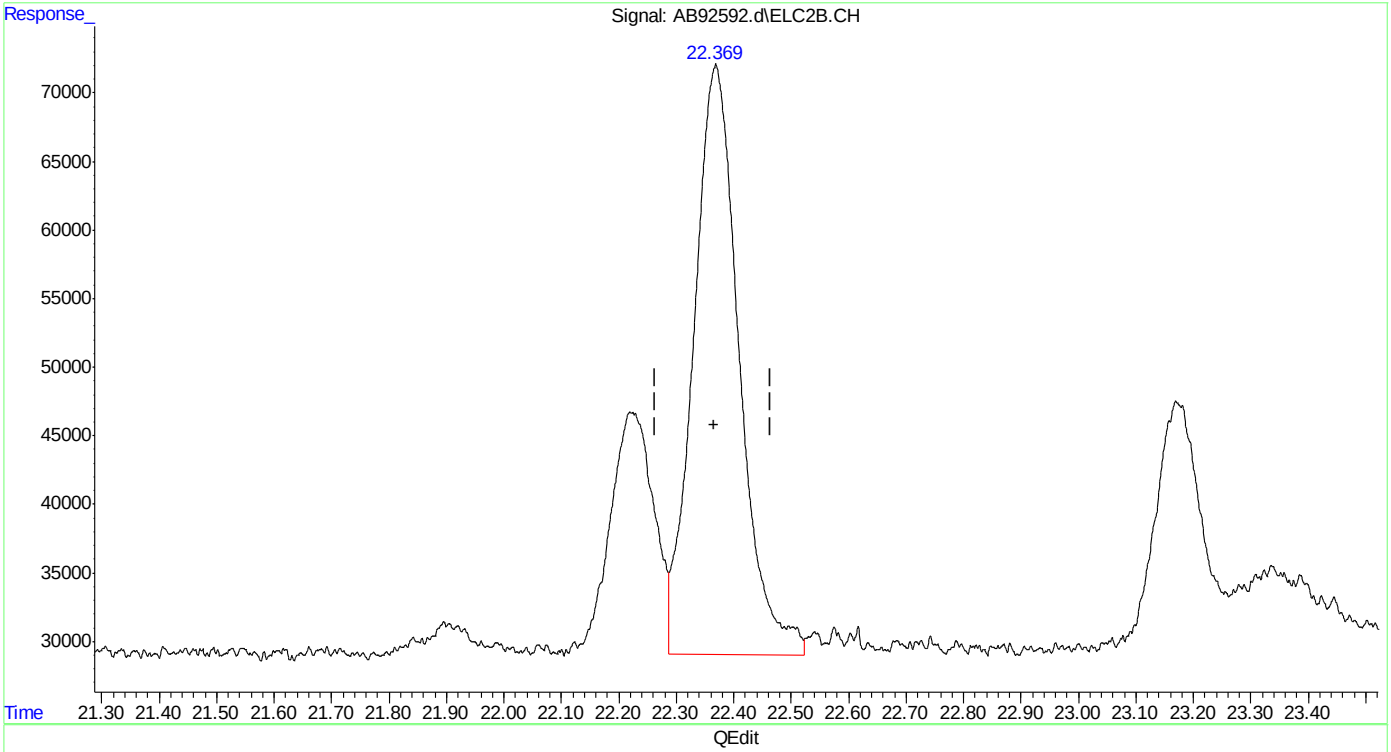
(+) = Expected Retention Time

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

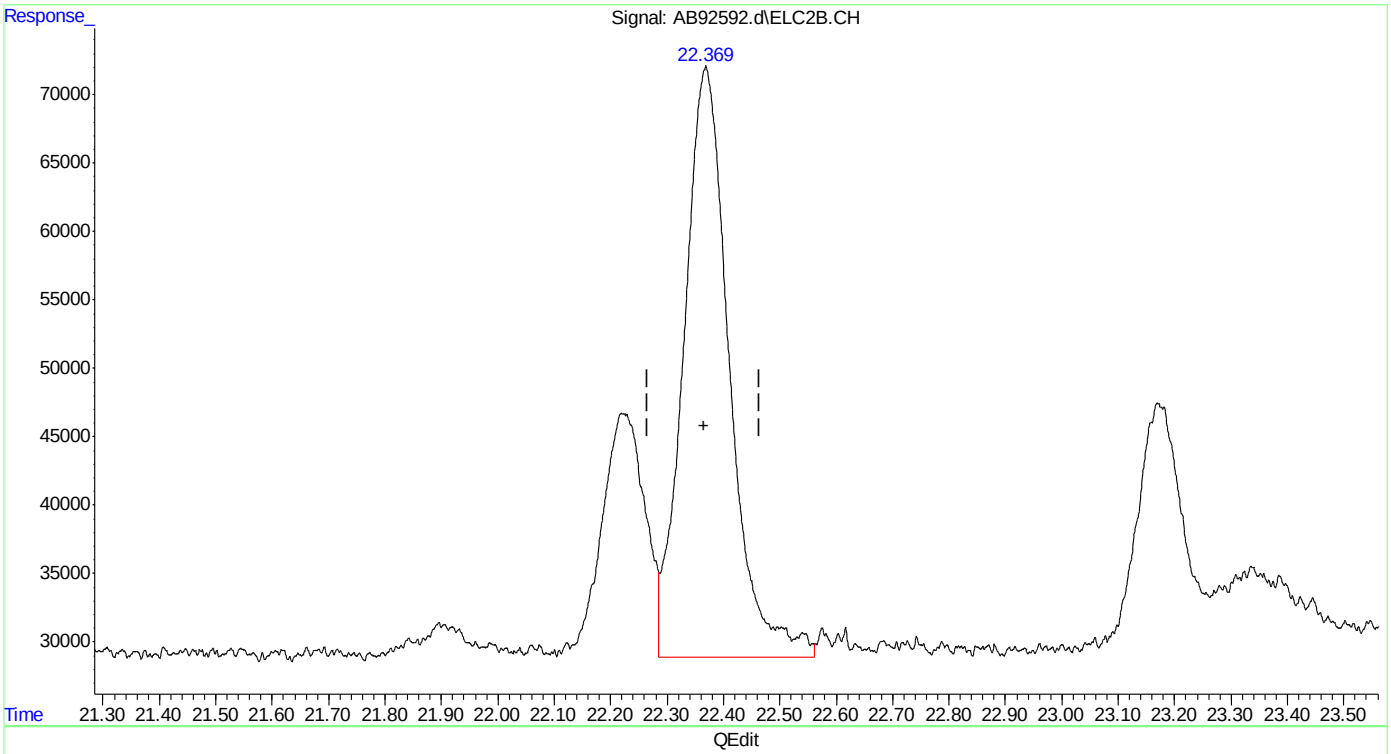
SGS ACCUTEST MC45678

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

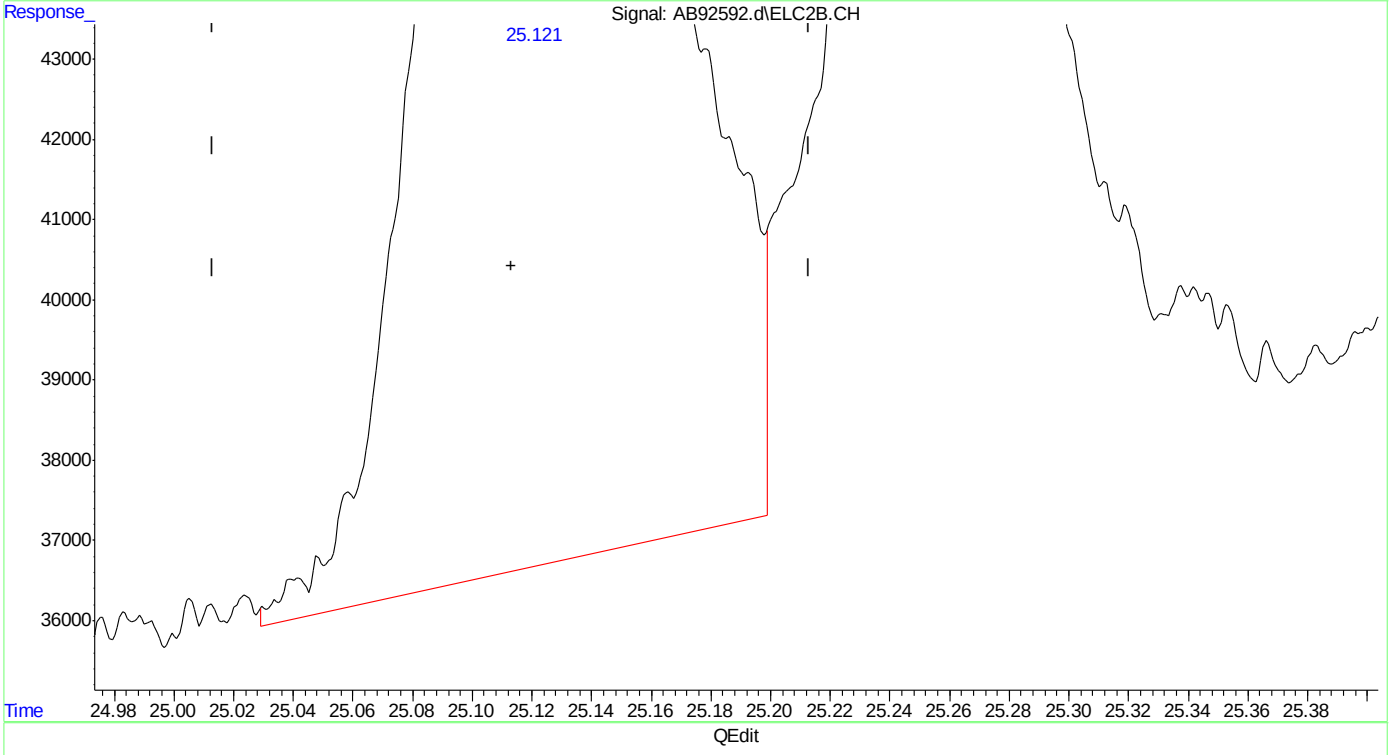
SGS ACCUTEST MC45678

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

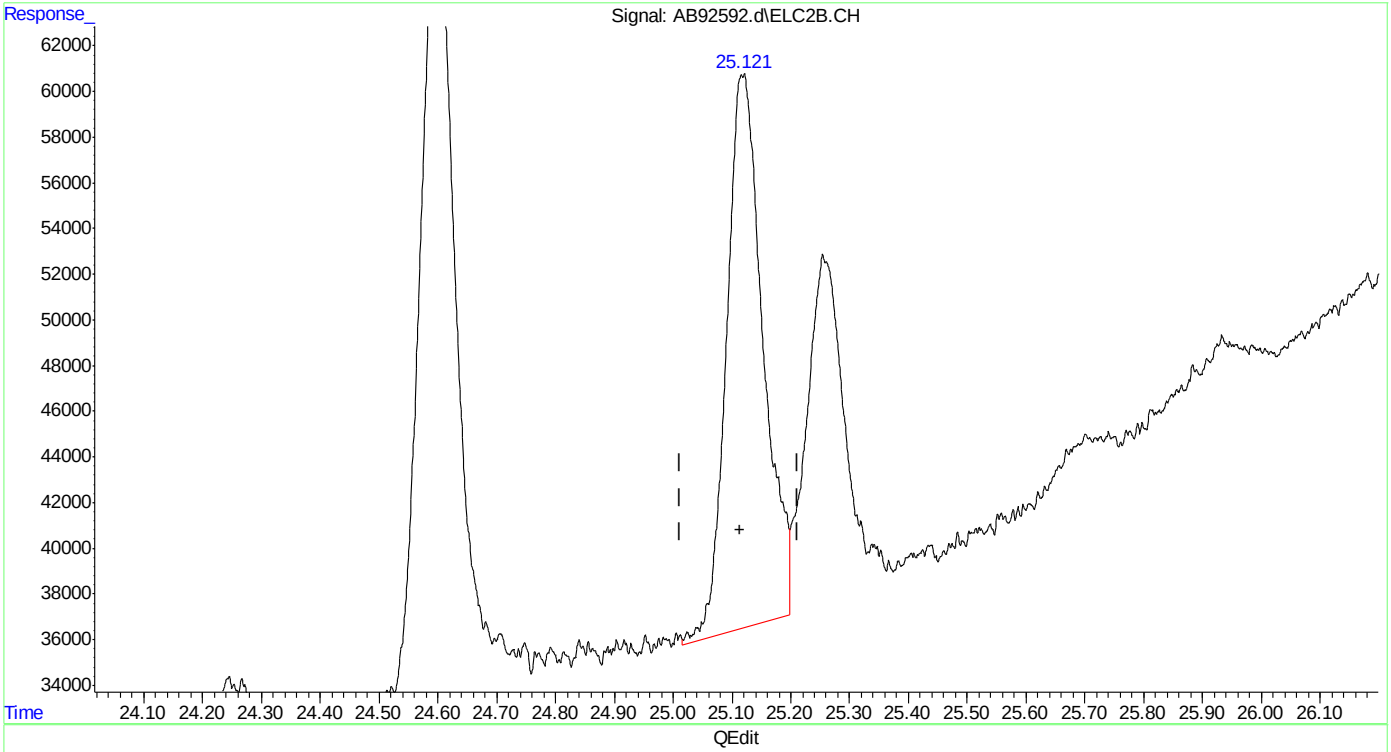
(+) = Expected Retention Time

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

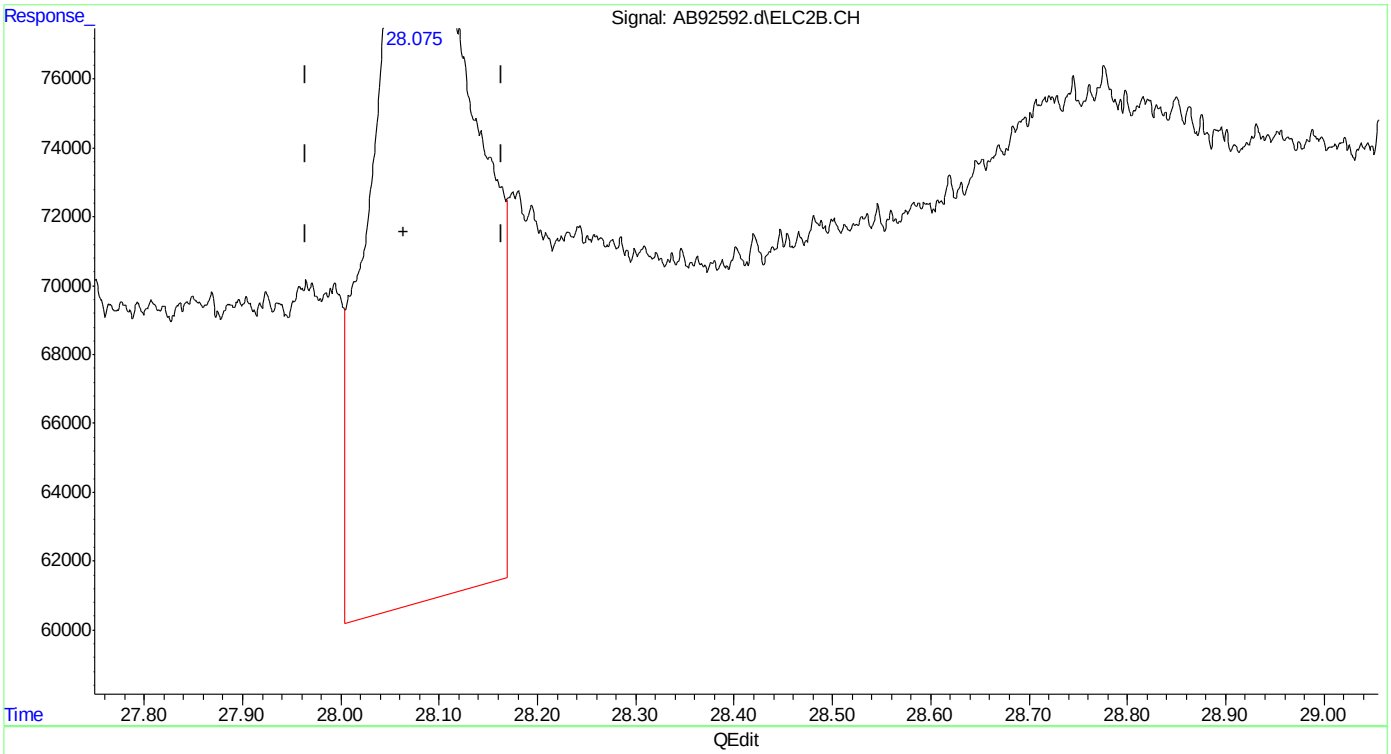
(+) = Expected Retention Time

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

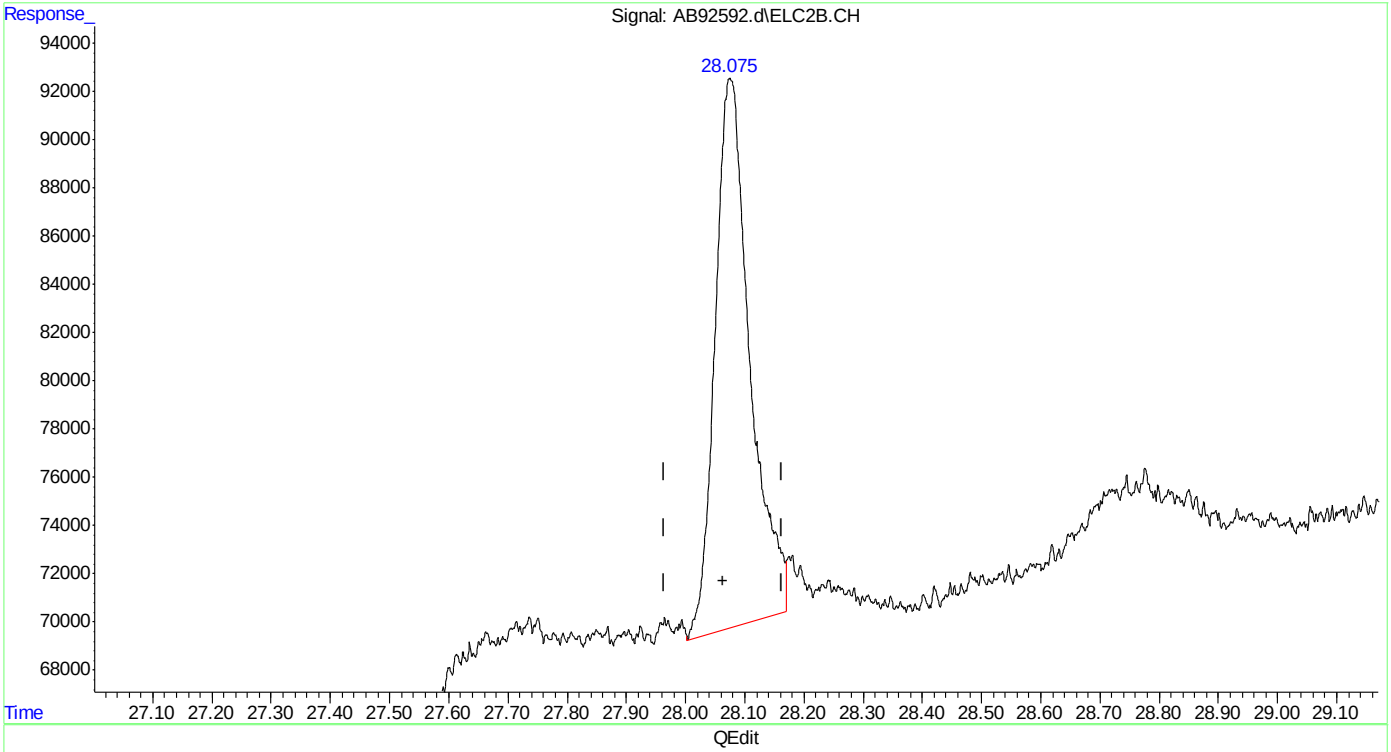
ab160112vphmaster.M Tue Jan 12 14:04:49 2016

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

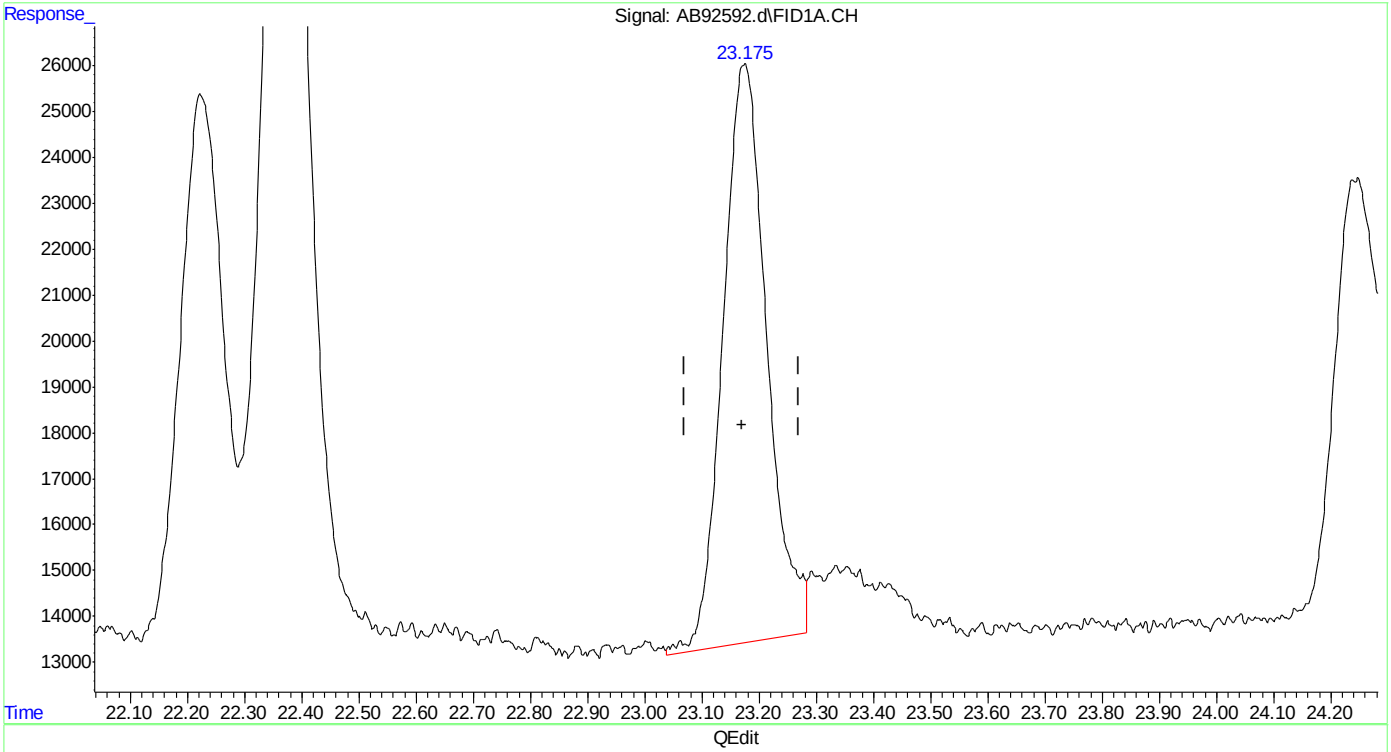
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:59 2016

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

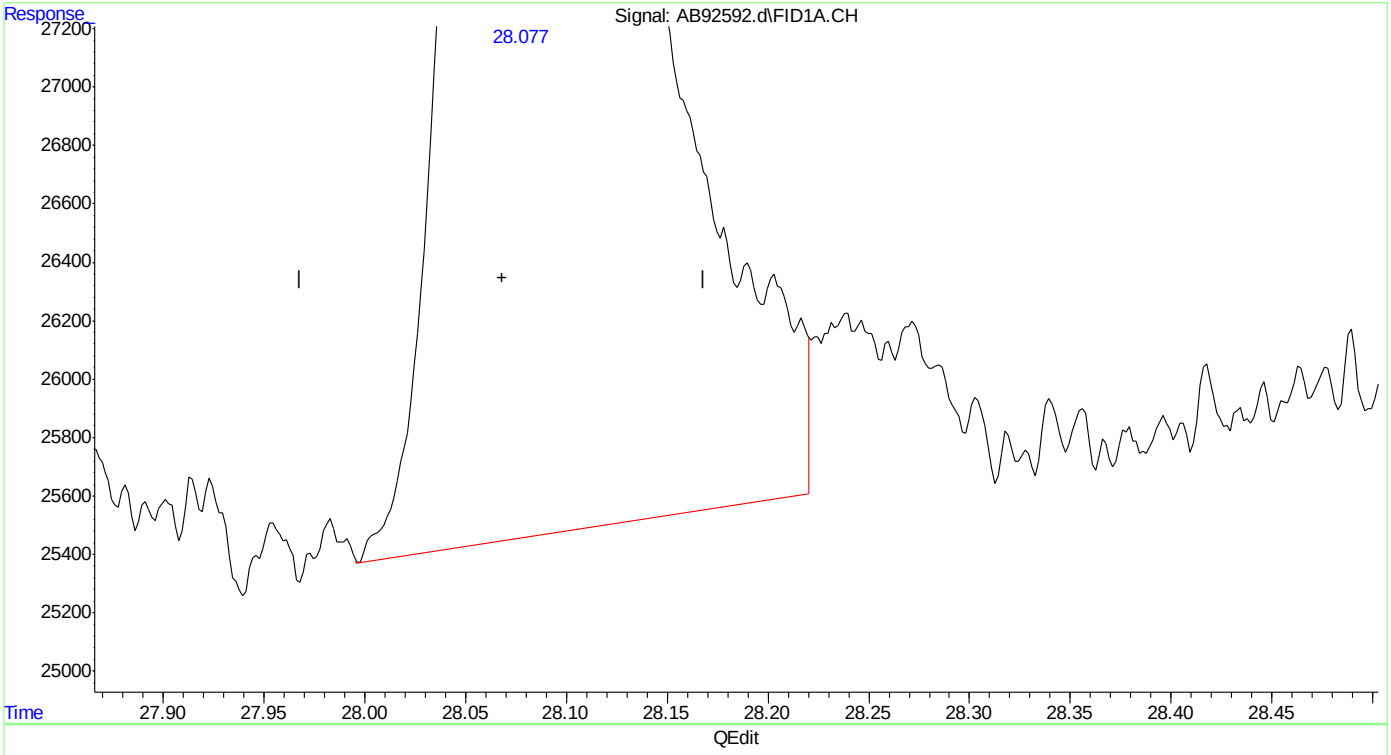
(+) = Expected Retention Time

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

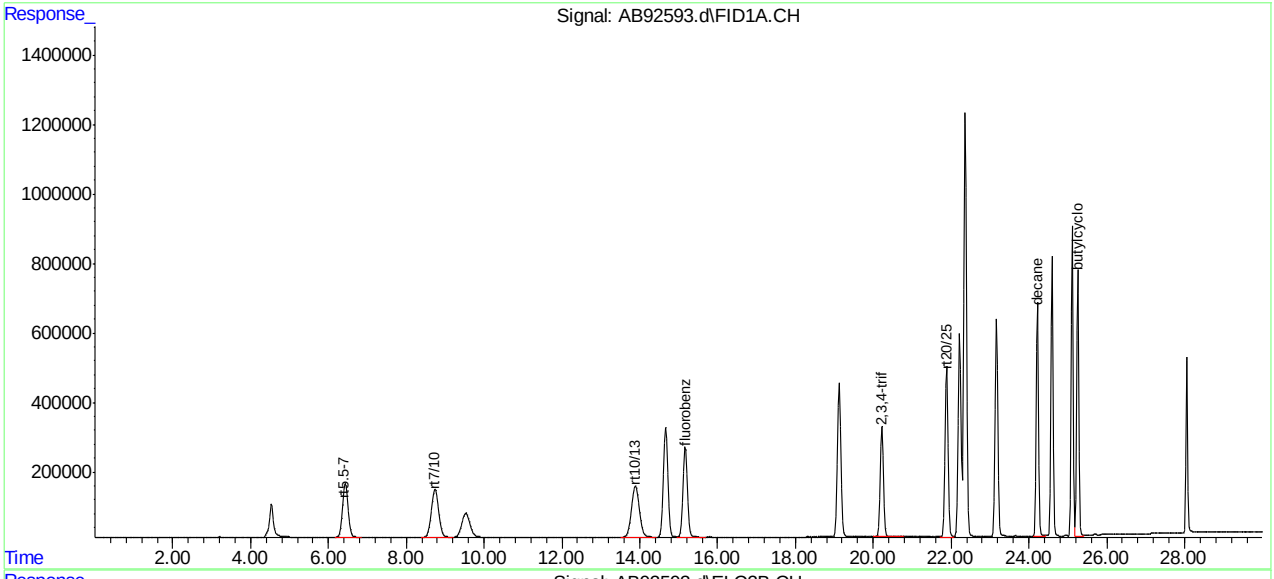
(f)=RT Delta > 1/2 Window (m)=manual int.

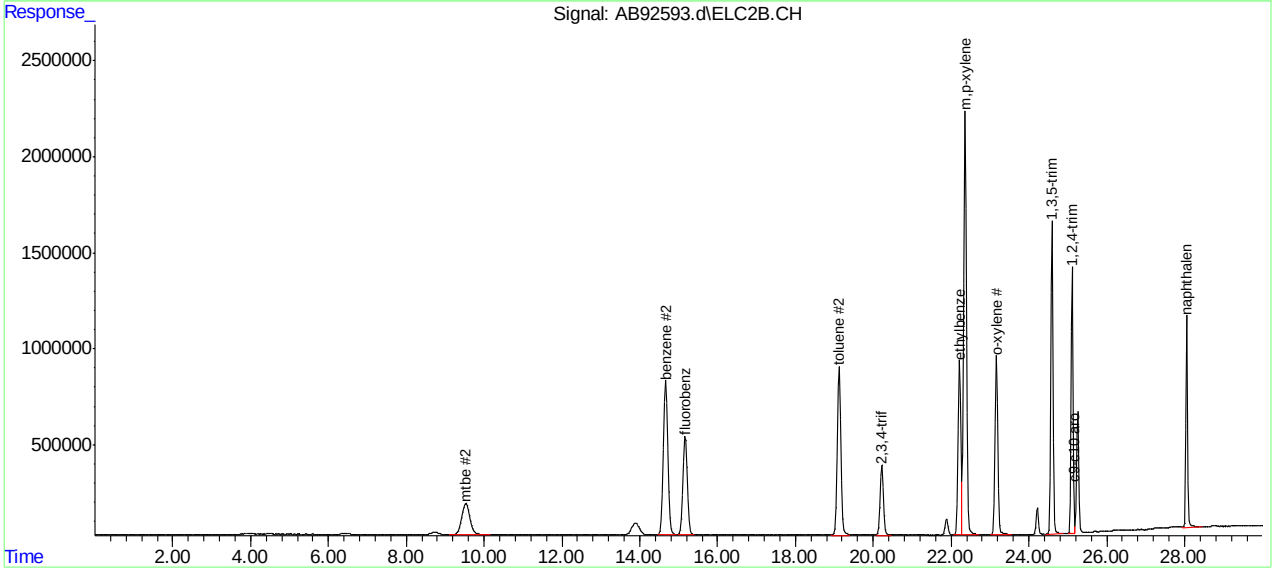
Quantitation Report (QT Reviewed)

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

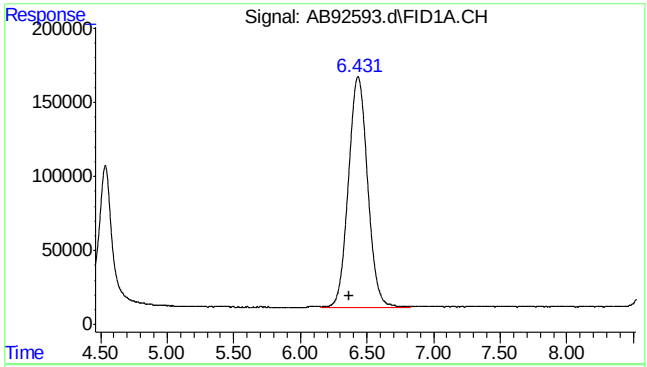
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:42:13 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent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

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



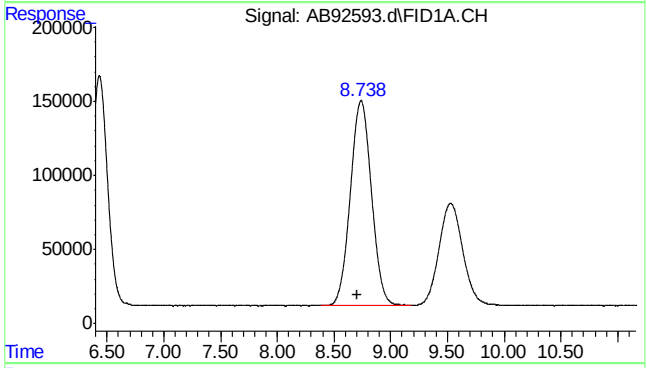


SGS ACCUTEST MC45678



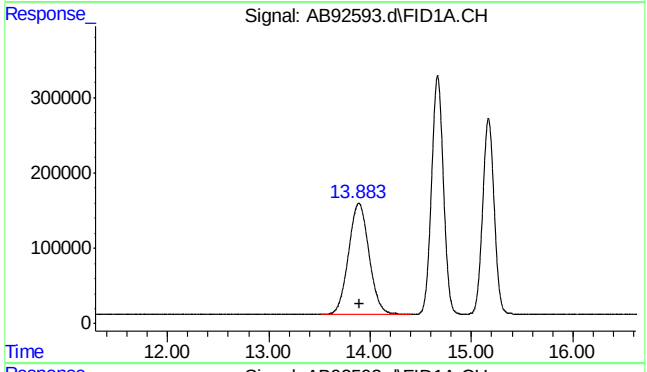
#1 rt5.5-7

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 15547337
Conc: 38.72 ppb m



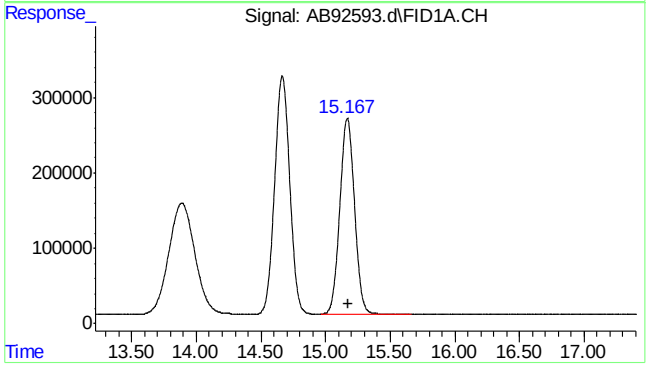
#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 17999511
Conc: 44.83 ppb m



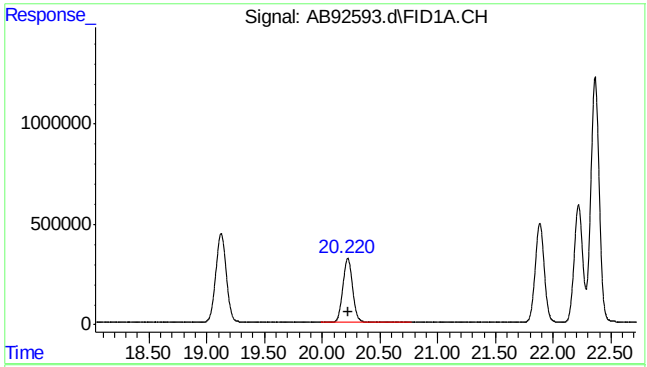
#3 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 20920173
Conc: 52.10 ppb m



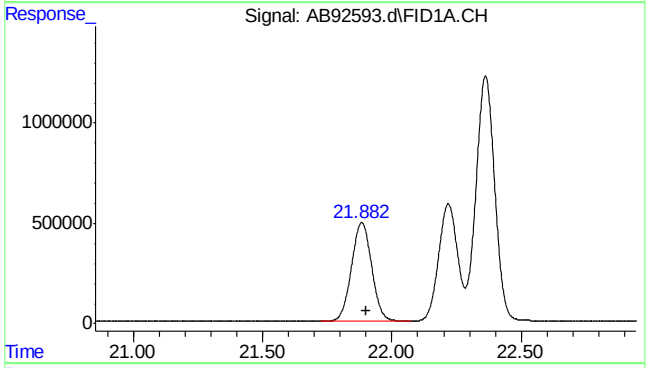
#4 fluorobenzene

R.T.: 15.167 min
Delta R.T.: -0.005 min
Response: 20622765
Conc: 46.86 ppb



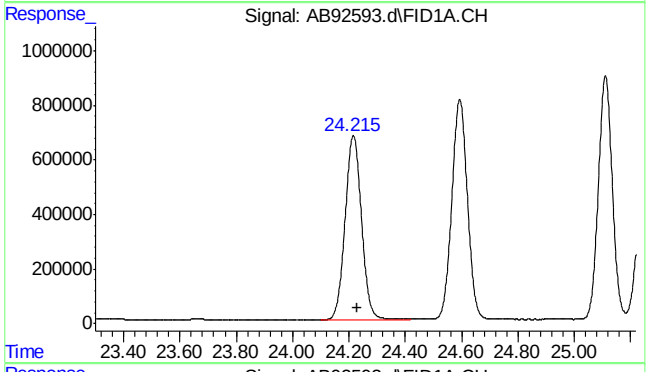
#6 2,3,4-trifluorotoluene

```
      R.T.:   20.220 min
Delta R.T.:   -0.006 min
  Response:  18655151
      Conc:  45.51 ppb
```



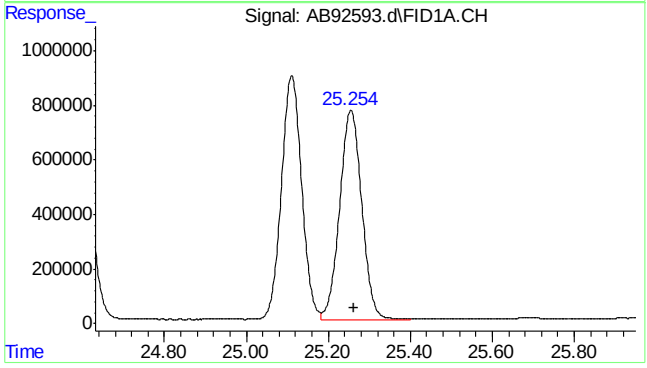
#8 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:  26744531
      Conc:  42.69 ppb m
```



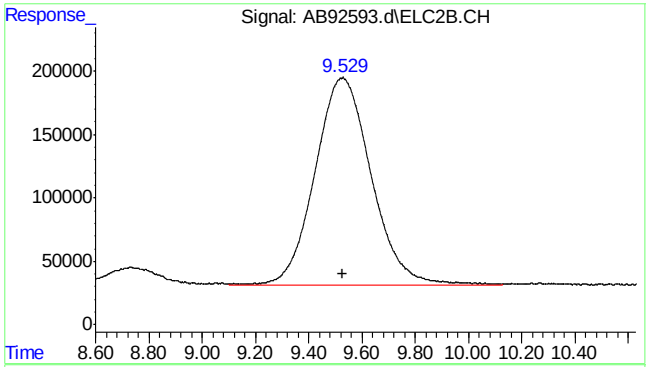
#10 decane

```
      R.T.:   24.230 min
Delta R.T.:    0.000 min
  Response:  27320621
      Conc:  43.61 ppb
```



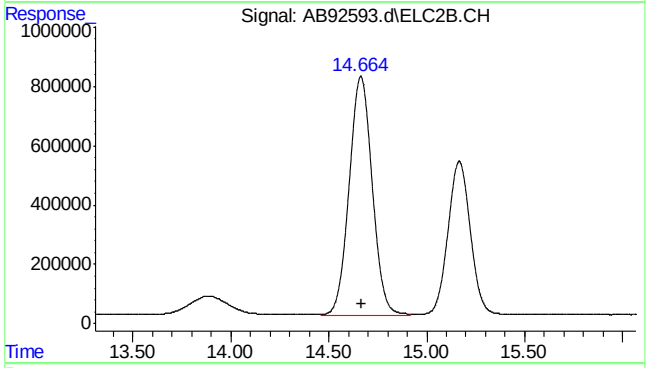
#11 butylcyclohexane

```
      R.T.:   25.263 min
Delta R.T.:    0.000 min
  Response:  28763512
      Conc:  45.91 ppb m
```



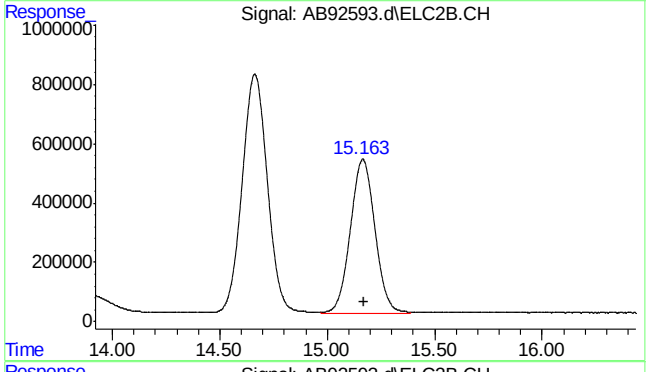
#14 mtbe #2

R.T.: 9.529 min
Delta R.T.: 0.000 min
Response: 23920523
Conc: 47.42 ppb m



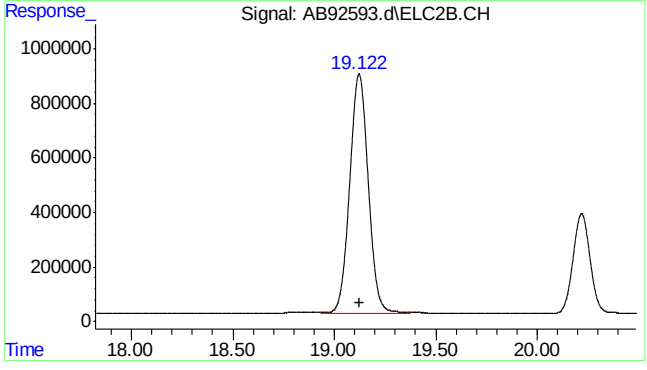
#15 benzene #2

R.T.: 14.664 min
Delta R.T.: -0.002 min
Response: 65660528
Conc: 50.44 ppb



#16 fluorobenzene #2

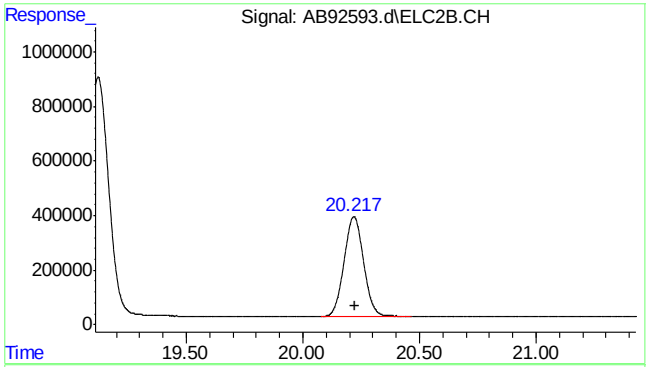
R.T.: 15.165 min
Delta R.T.: -0.006 min
Response: 41135835
Conc: 48.84 ppb



#17 toluene #2

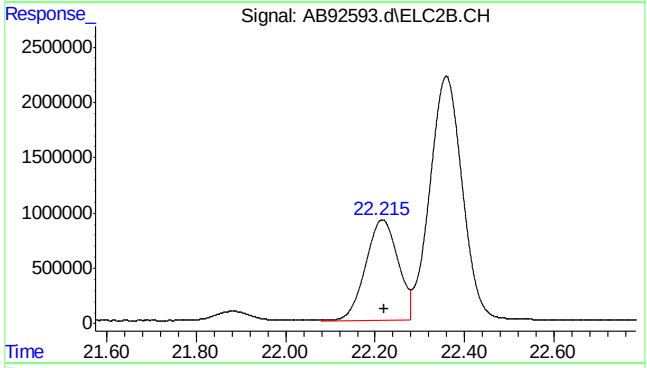
R.T.: 19.122 min
Delta R.T.: -0.003 min
Response: 56355118
Conc: 49.29 ppb

SGS ACCUTEST MC45678



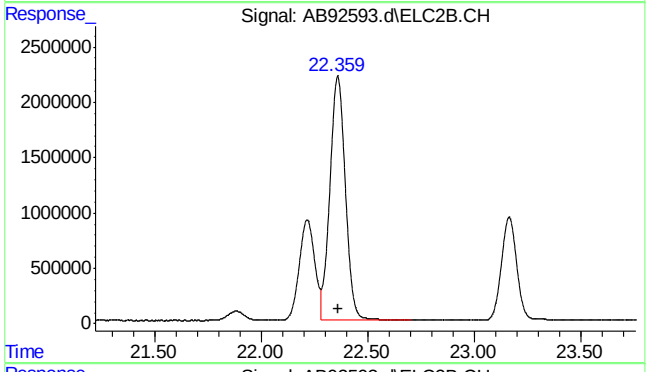
#18 2,3,4-trifluorotoluene #2

R.T.: 20.218 min
Delta R.T.: -0.005 min
Response: 21681675
Conc: 46.44 ppb



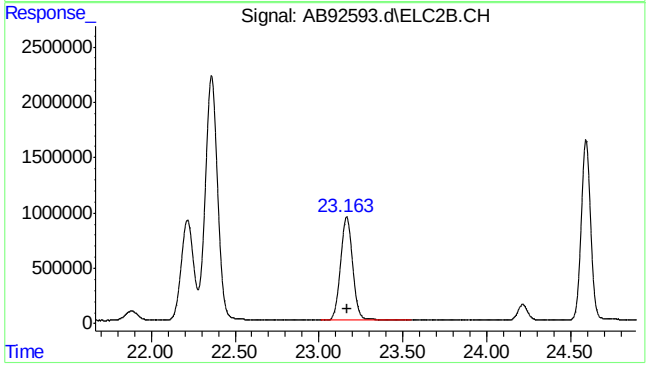
#19 ethylbenzene #2

R.T.: 22.216 min
Delta R.T.: -0.003 min
Response: 45881900
Conc: 49.56 ppb



#20 m,p-xylene #2

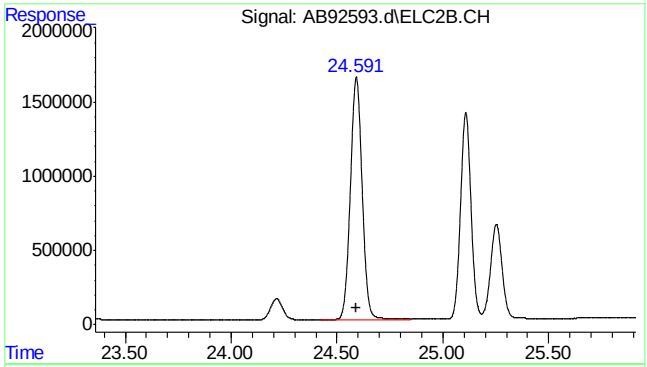
R.T.: 22.359 min
Delta R.T.: -0.003 min
Response: 112454382
Conc: 106.02 ppb



#21 o-xylene #2

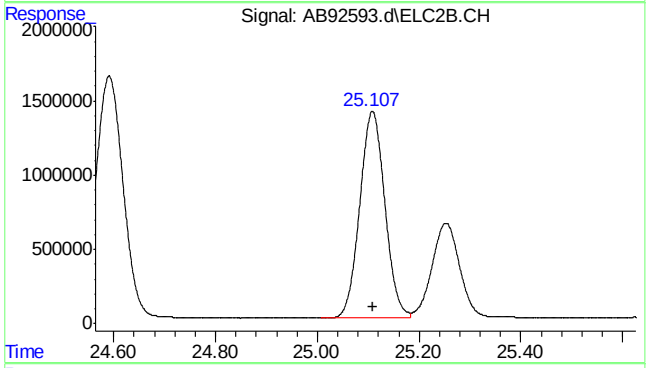
R.T.: 23.164 min
Delta R.T.: -0.003 min
Response: 47383447
Conc: 50.72 ppb

SGS ACCUTEST MC45678



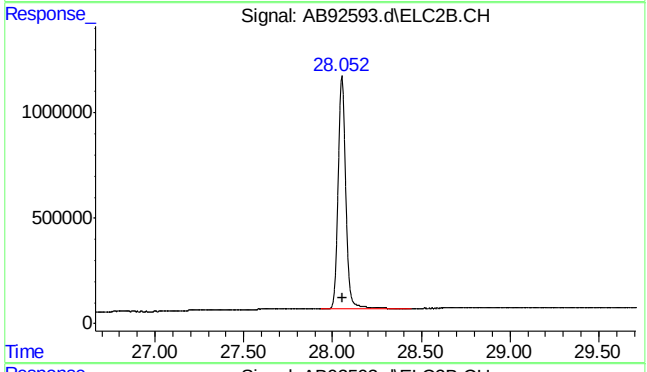
#22 1,3,5-trimethylbenzene #2

R.T.: 24.591 min
Delta R.T.: -0.002 min
Response: 63131896
Conc: 48.32 ppb



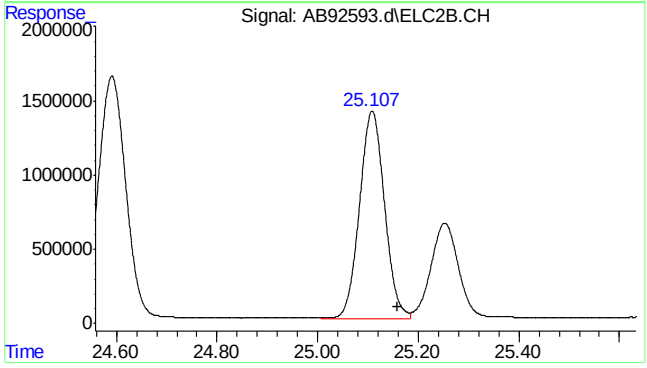
#23 1,2,4-trimethylbenzene #2

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

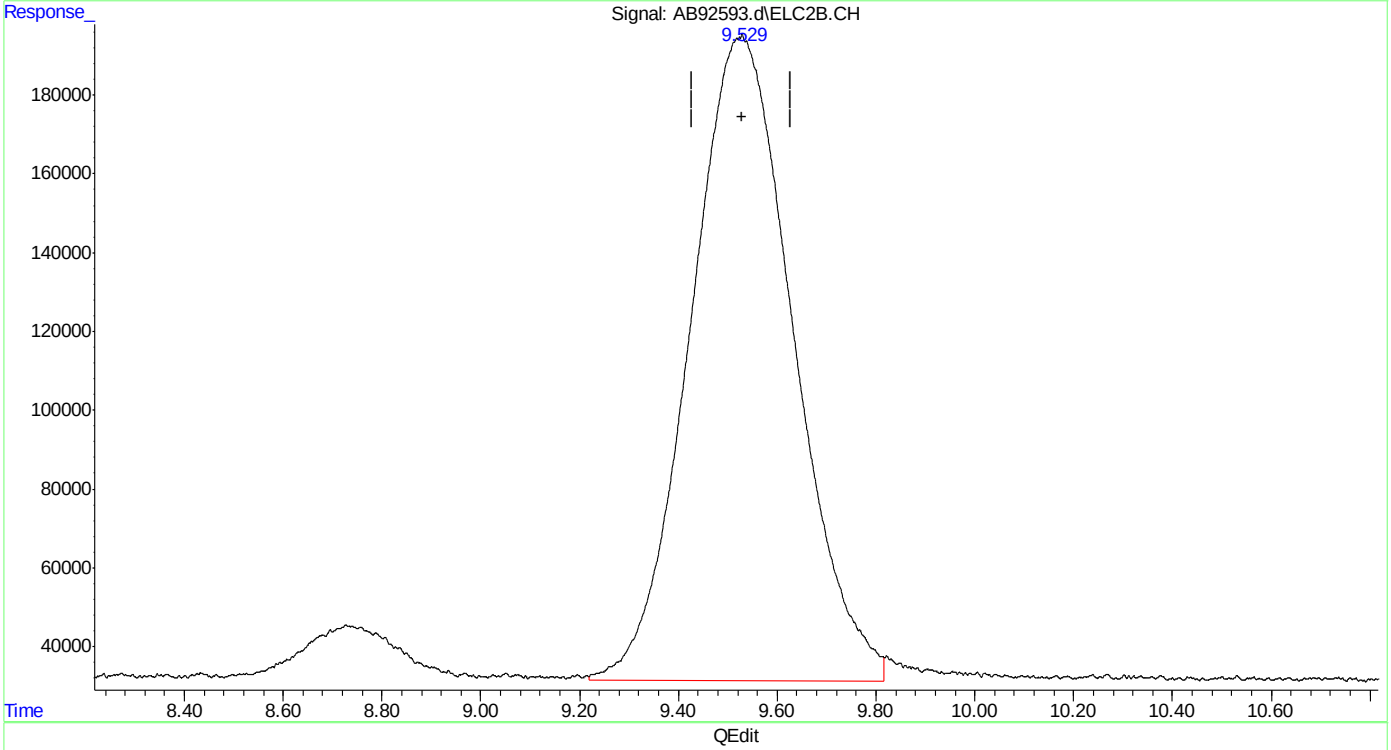
SGS ACCUTEST MC45678

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

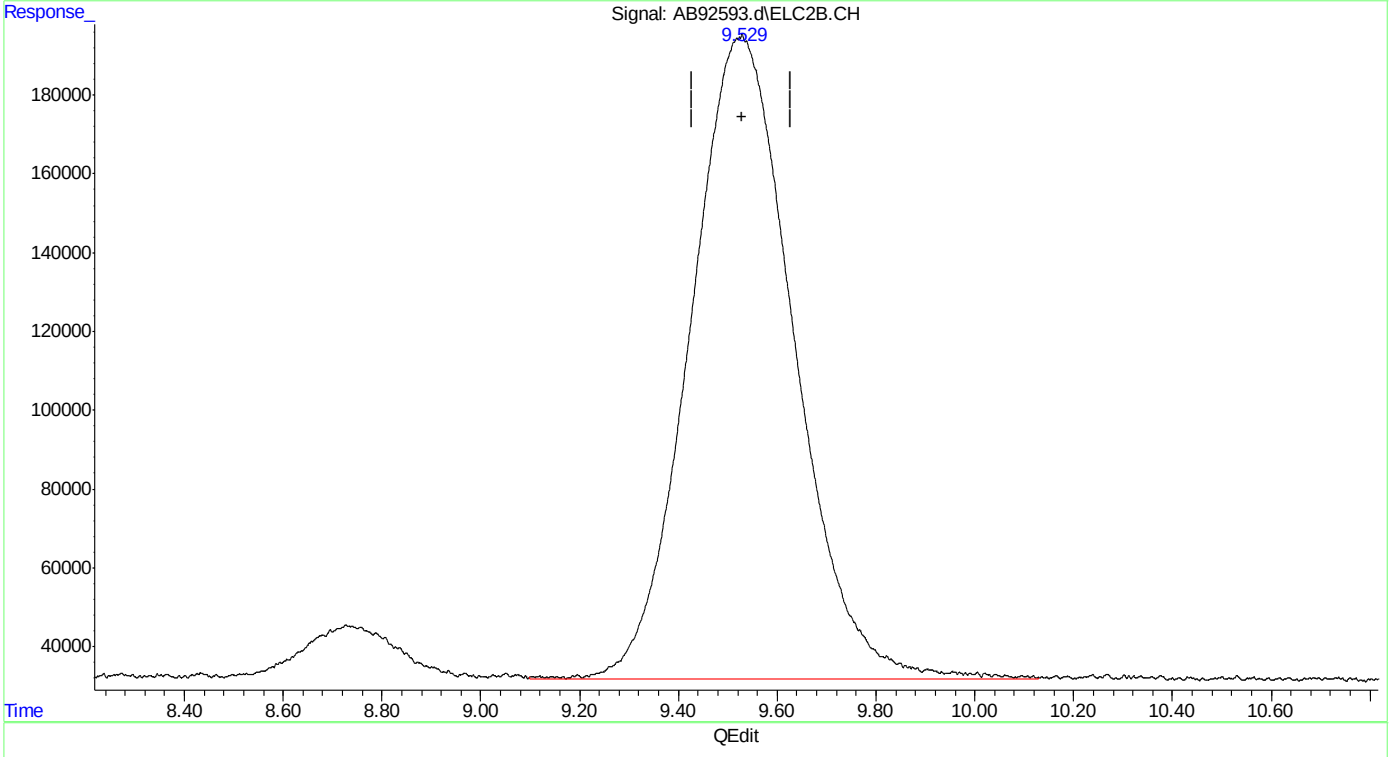
(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:17 2016

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

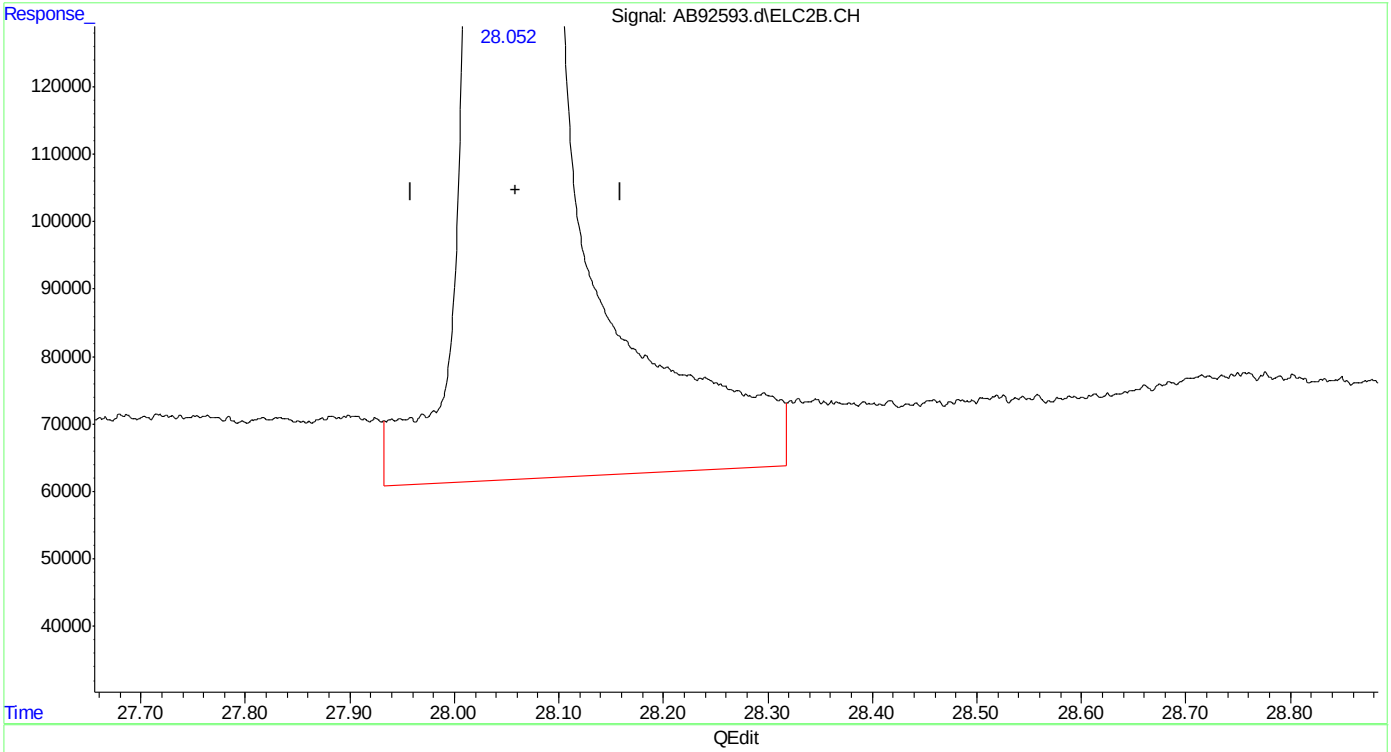
SGS ACCUTEST MC45678

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

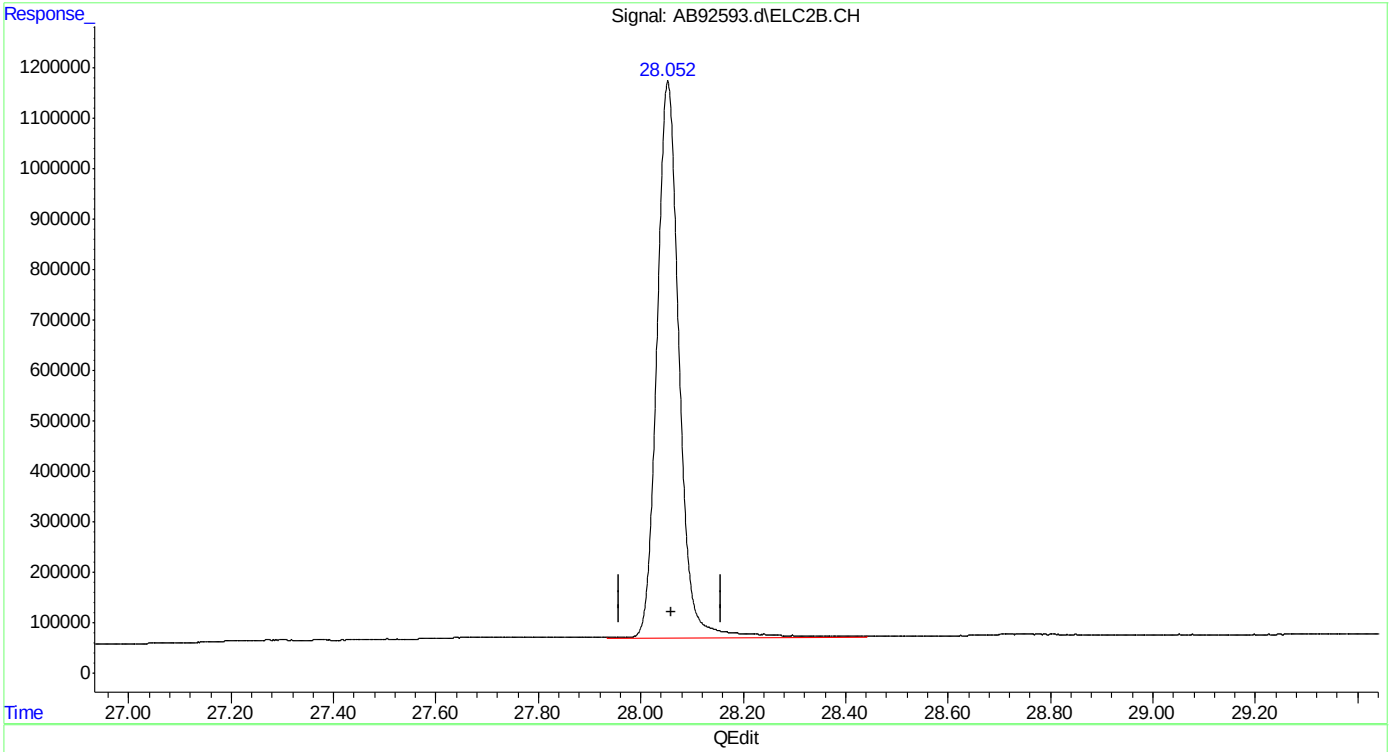
ab160112vph.M Tue Jan 12 15:41:56 2016

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 MC45678

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93921.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 13:34:16
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,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 03 14:18:12 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.138	21335858	48.475	ppb	
Spiked Amount 50.000		Recovery =	96.95%		
6) s 2,3,4-trifluorotoluene	20.195	19131191	46.667	ppb	
Spiked Amount 50.000		Recovery =	93.33%		
16) s fluorobenzene #2	15.136	41430457	49.191	ppb	
Spiked Amount 50.000		Recovery =	98.38%		
18) s 2,3,4-trifluorotoluen...	20.193	21470772	45.988	ppb	
Spiked Amount 50.000		Recovery =	91.98%		
Target Compounds					
1) h rt5.5-7	6.420	15825461	39.415	ppb	m
2) h rt7/10	8.720	18609348	46.348	ppb	m
3) h rt10/13	13.870	21755125	54.183	ppb	m
8) h rt20/25	21.870	25861328	41.279	ppb	m
10) h decane	24.200	25721073	41.055	ppb	
11) h butylcyclohexane	25.240	28493810	45.481	ppb	
14) mtbe #2	9.497	25651769	50.851	ppb	m
15) benzene #2	14.633	63779513	48.999	ppb	
17) toluene #2	19.094	54677828	47.825	ppb	
19) ethylbenzene #2	22.192	44837508	48.428	ppb	
20) m,p-xylene #2	22.336	107847553	101.674	ppb	
21) o-xylene #2	23.142	45110830	48.291	ppb	
22) t 1,3,5-trimethylbenzen...	24.573	58595961	44.849	ppb	
23) 1,2,4-trimethylbenzen...	25.092	45093274	47.118	ppb	
24) naphthalene #2	28.036	32046149	44.329	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45182141	47.161	ppb	m

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

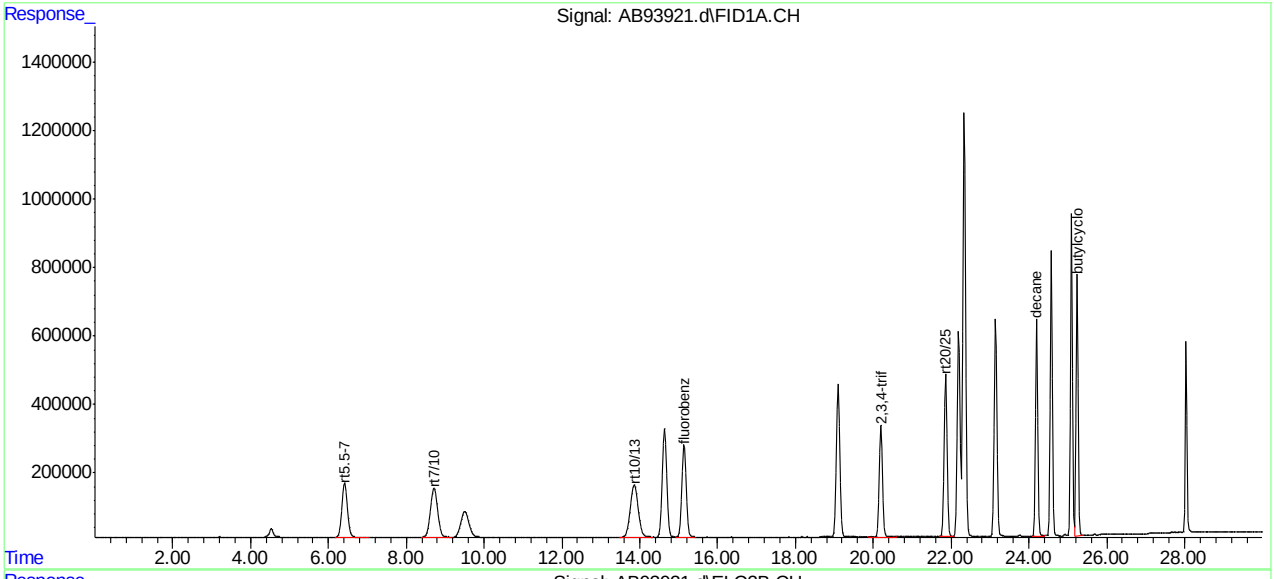
SGS ACCUTEST MC45678

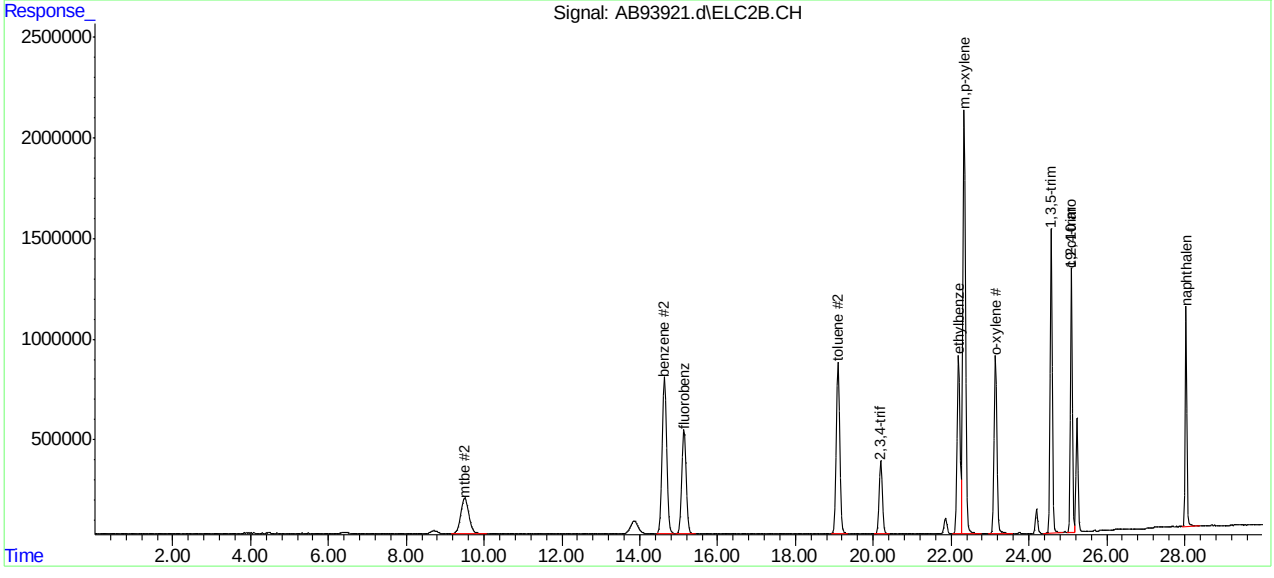
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93921.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 13:34:16
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

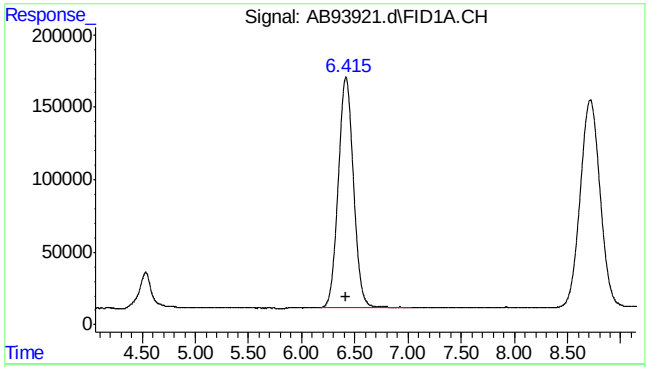
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 03 14:18:12 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



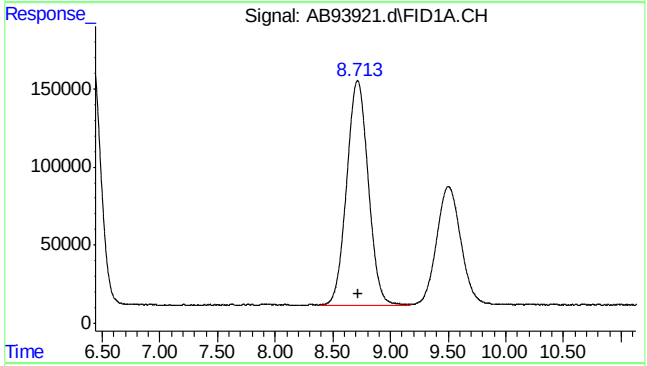


SGS ACCUTEST MC45678



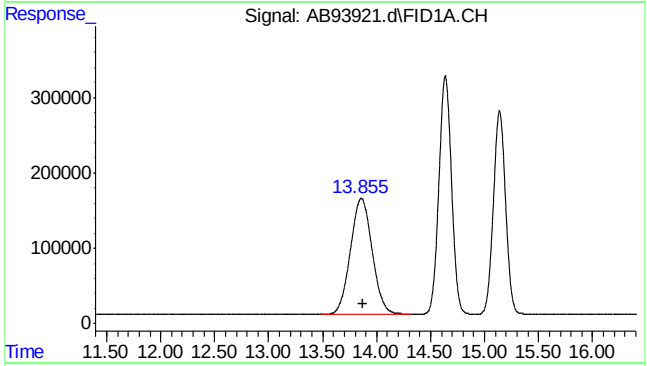
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15825461
Conc: 39.41 ppb m



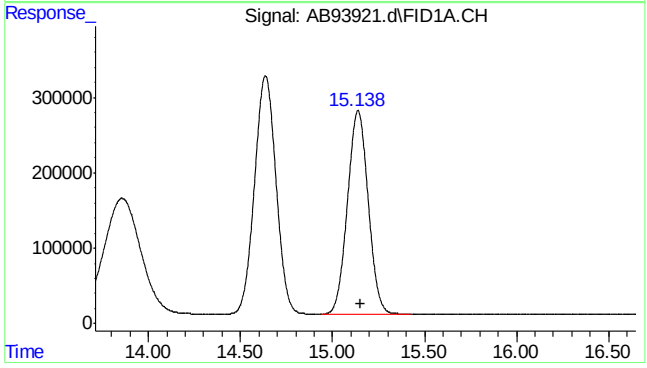
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18609348
Conc: 46.35 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21755125
Conc: 54.18 ppb m



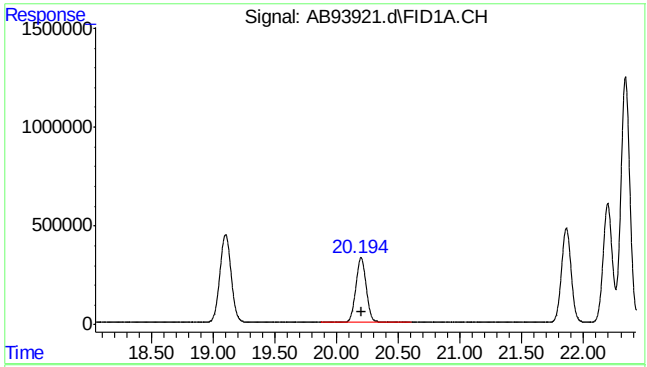
#4 fluorobenzene

R.T.: 15.138 min
Delta R.T.: -0.013 min
Response: 21335858
Conc: 48.48 ppb

7.5.11

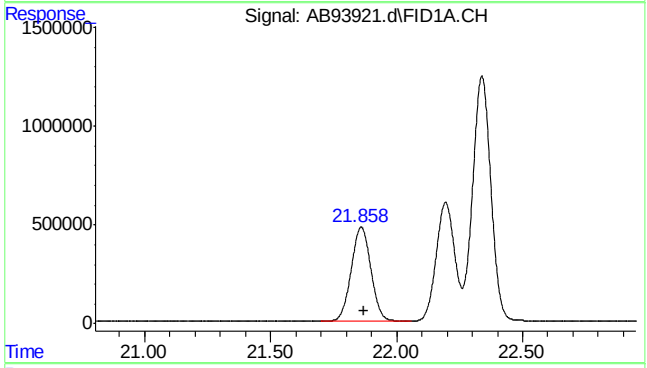
7

SGS ACCUTEST MC45678



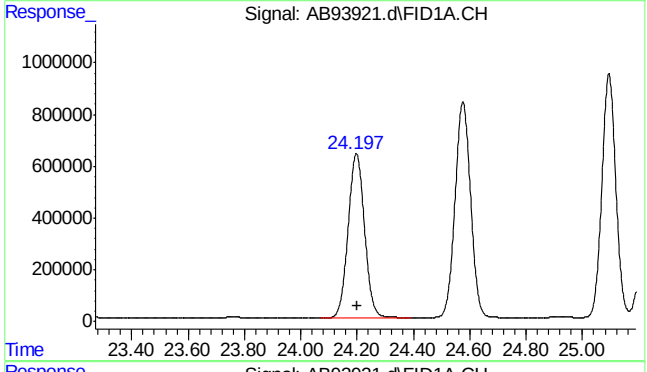
#6 2,3,4-trifluorotoluene

R.T.: 20.195 min
Delta R.T.: -0.010 min
Response: 19131191
Conc: 46.67 ppb



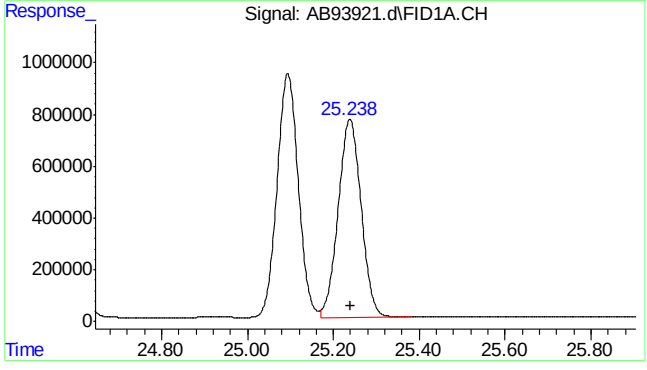
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 25861328
Conc: 41.28 ppb m



#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 25721073
Conc: 41.05 ppb



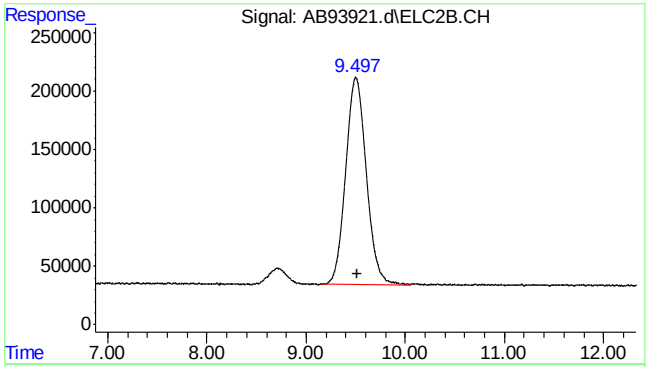
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 28493810
Conc: 45.48 ppb

7.5.11

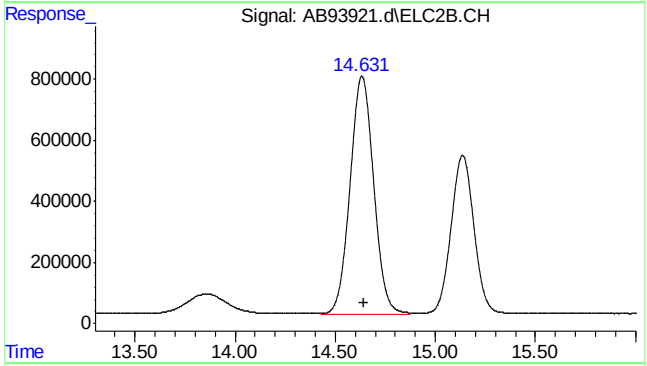
7

SGS ACCUTEST MC45678



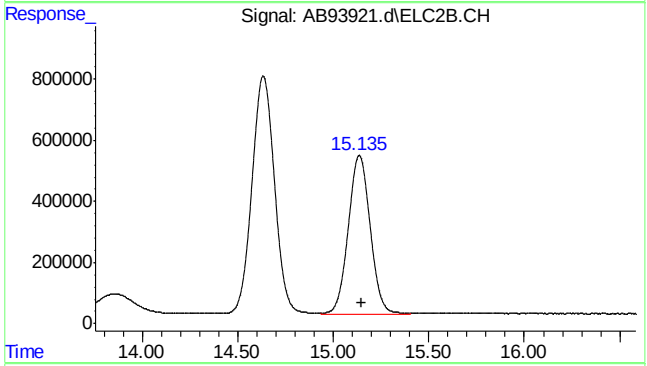
#14 mtbe #2

R.T.: 9.497 min
Delta R.T.: -0.014 min
Response: 25651769
Conc: 50.85 ppb m



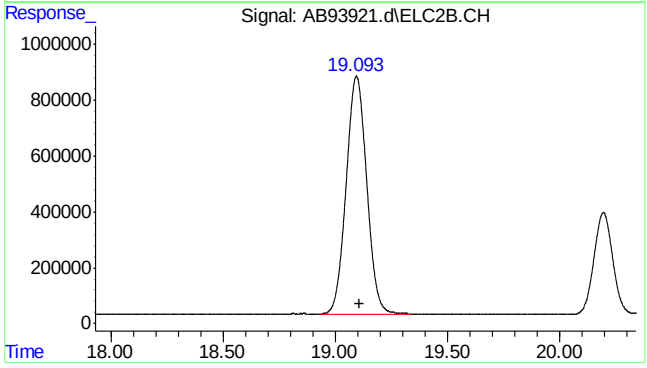
#15 benzene #2

R.T.: 14.633 min
Delta R.T.: -0.013 min
Response: 63779513
Conc: 49.00 ppb



#16 fluorobenzene #2

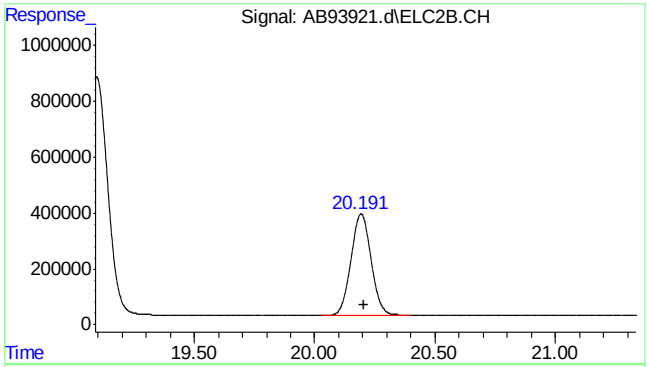
R.T.: 15.136 min
Delta R.T.: -0.012 min
Response: 41430457
Conc: 49.19 ppb



#17 toluene #2

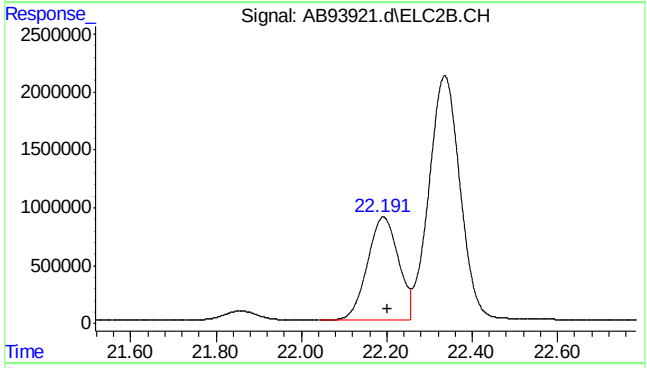
R.T.: 19.094 min
Delta R.T.: -0.012 min
Response: 54677828
Conc: 47.83 ppb

SGS ACCUTEST MC45678



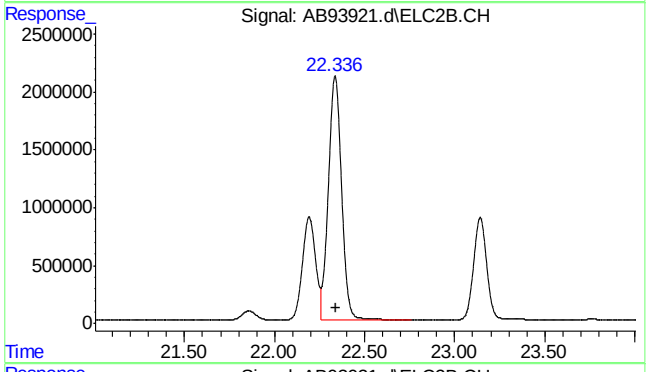
#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.010 min
Response: 21470772
Conc: 45.99 ppb



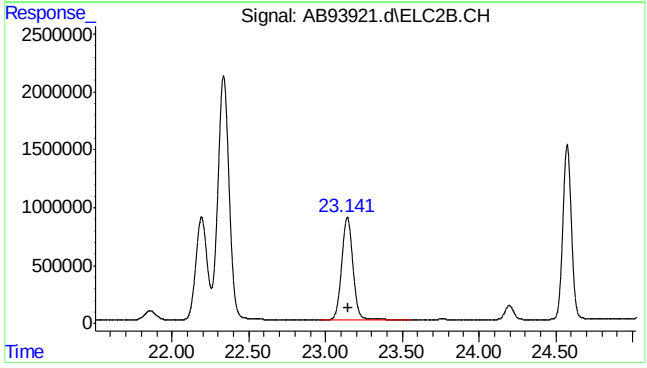
#19 ethylbenzene #2

R.T.: 22.192 min
Delta R.T.: -0.009 min
Response: 44837508
Conc: 48.43 ppb



#20 m,p-xylene #2

R.T.: 22.336 min
Delta R.T.: -0.008 min
Response: 107847553
Conc: 101.67 ppb



#21 o-xylene #2

R.T.: 23.142 min
Delta R.T.: -0.008 min
Response: 45110830
Conc: 48.29 ppb

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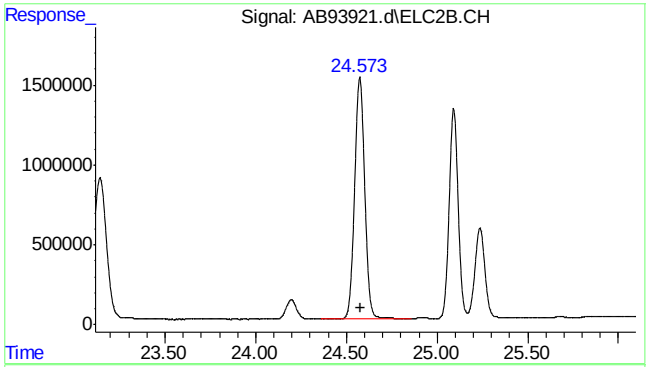
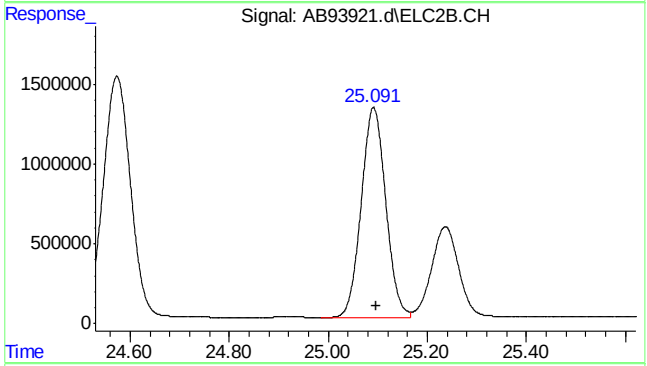


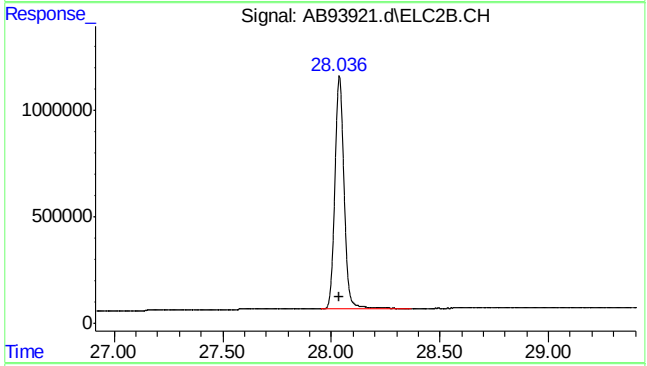
#22 1,3,5-trimethylbenzene #2

R.T.: 24.573 min
Delta R.T.: -0.006 min
Response: 58595961
Conc: 44.85 ppb



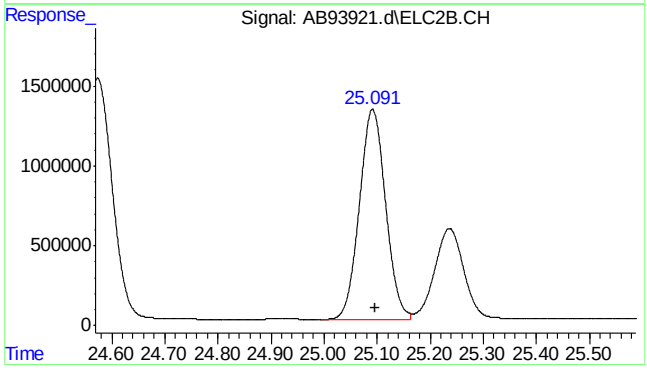
#23 1,2,4-trimethylbenzene #2

R.T.: 25.092 min
Delta R.T.: -0.004 min
Response: 45093274
Conc: 47.12 ppb



#24 naphthalene #2

R.T.: 28.036 min
Delta R.T.: -0.002 min
Response: 32046149
Conc: 44.33 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 45182141
Conc: 47.16 ppb m

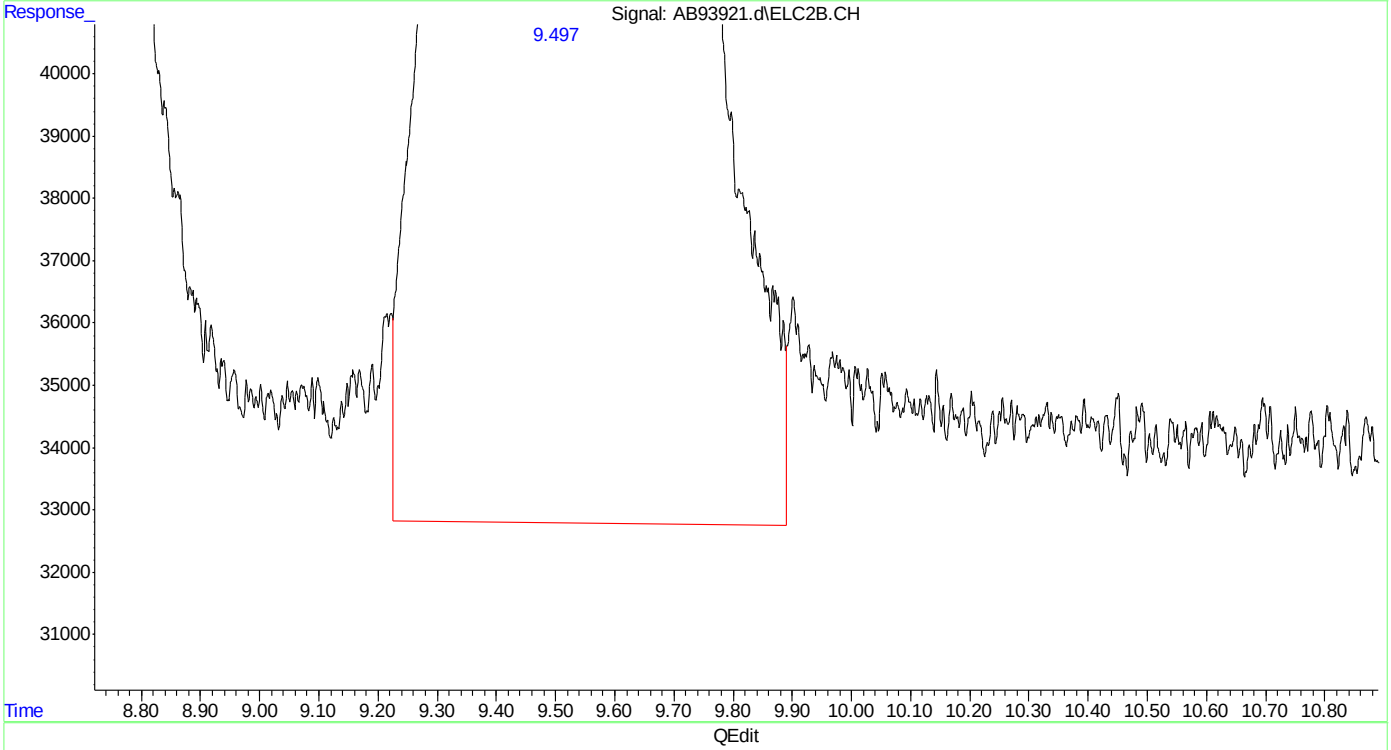
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93921.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 13:34:16
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,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 03 14:16:34 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 51.928 ppb
response 26195375

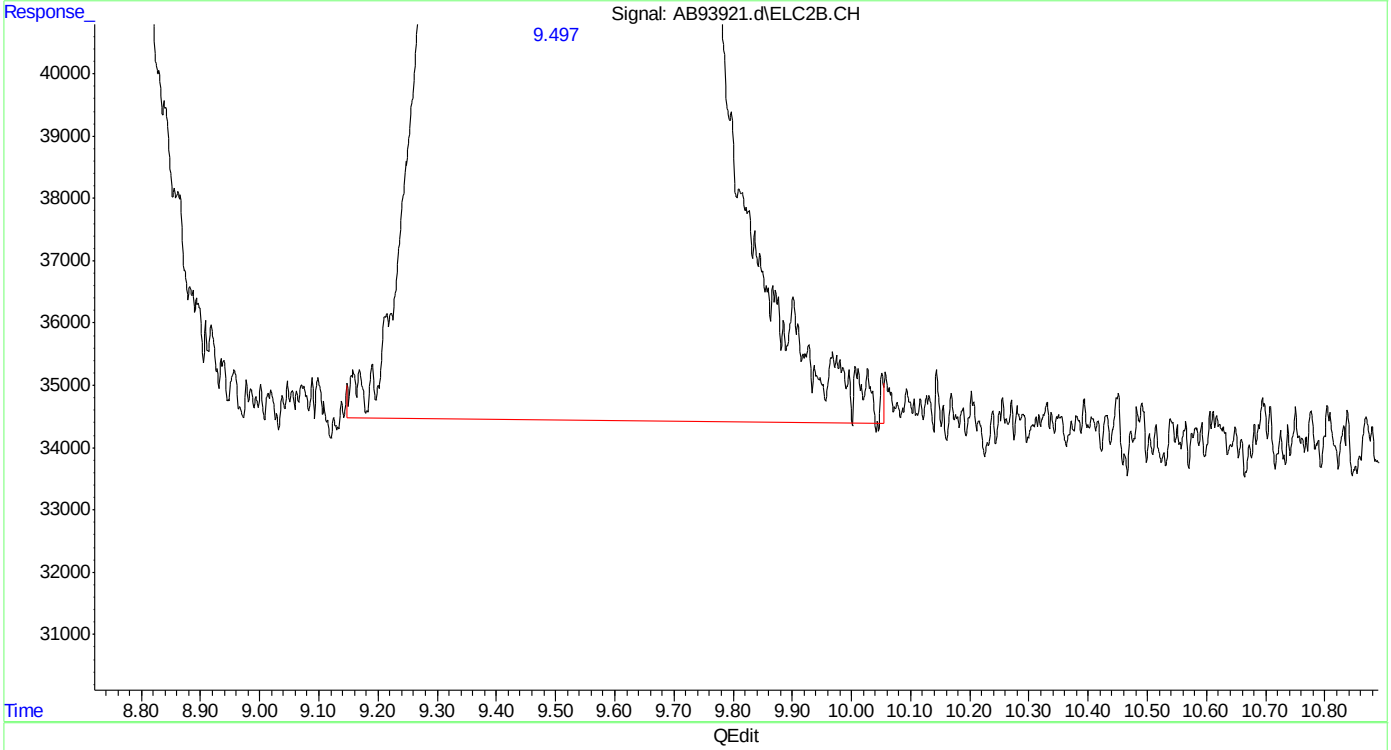
(+) = Expected Retention Time
ab160503vph.M Tue May 03 14:17:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93921.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 13:34:16
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,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 03 14:16:34 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.851 ppb m
response 25651769

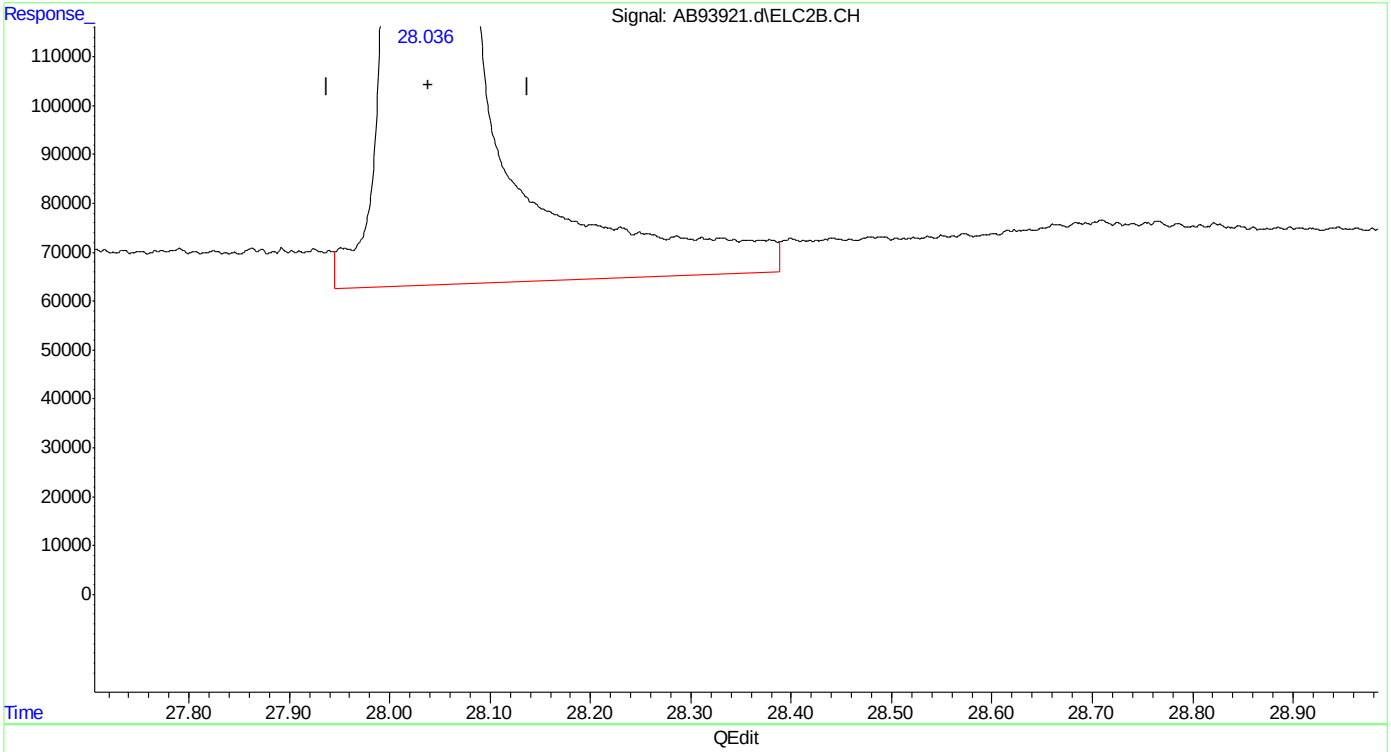
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93921.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 13:34:16
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26206,gab5161,,,,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 03 14:16:34 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.037min 46.875 ppb

response 33886519

(+) = Expected Retention Time

ab160503vph.M Tue May 03 14:18:02 2016

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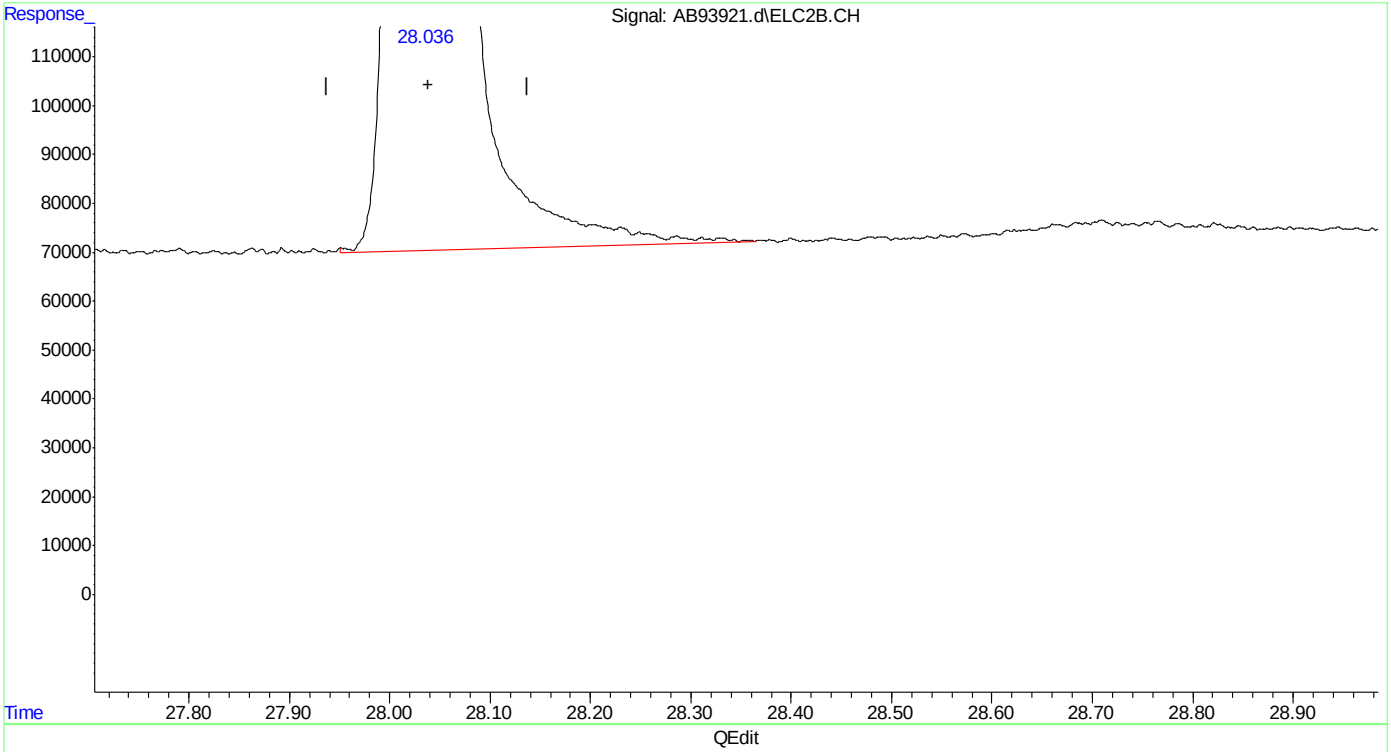
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93921.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 13:34:16
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26206,gab5161,,,,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 03 14:16:34 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 44.329 ppb m

response 32046149

(+) = Expected Retention Time

ab160503vph.M Tue May 03 14:18:07 2016

SGS ACCUTEST MC45678

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/04/16 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93929.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 18:36:38
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,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 04 06:53:10 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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	15.143	21604139	49.085	ppb	
Spiked Amount 50.000		Recovery =	98.17%		
6) s 2,3,4-trifluorotoluene	20.199	19474627	47.505	ppb	
Spiked Amount 50.000		Recovery =	95.01%		
16) s fluorobenzene #2	15.140	41555597	49.339	ppb	
Spiked Amount 50.000		Recovery =	98.68%		
18) s 2,3,4-trifluorotoluen...	20.197	21827156	46.751	ppb	
Spiked Amount 50.000		Recovery =	93.50%		
Target Compounds					
1) h rt5.5-7	6.420	15739739	39.201	ppb	m
2) h rt7/10	8.720	18699454	46.573	ppb	m
3) h rt10/13	13.870	21841523	54.399	ppb	m
8) h rt20/25	21.870	27185522	43.392	ppb	m
10) h decane	24.200	27290696	43.560	ppb	
11) h butylcyclohexane	25.240	29854162	47.652	ppb	
14) mtbe #2	9.501	25468553	50.488	ppb	m
15) benzene #2	14.638	63934078	49.118	ppb	
17) toluene #2	19.099	55216057	48.296	ppb	
19) ethylbenzene #2	22.196	45047563	48.655	ppb	
20) m,p-xylene #2	22.339	108025607	101.842	ppb	
21) o-xylene #2	23.145	44938438	48.107	ppb	
22) t 1,3,5-trimethylbenzen...	24.576	58870833	45.060	ppb	
23) 1,2,4-trimethylbenzen...	25.094	45287450	47.321	ppb	
24) naphthalene #2	28.038	32275423	44.646	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	45410817	47.399	ppb	m

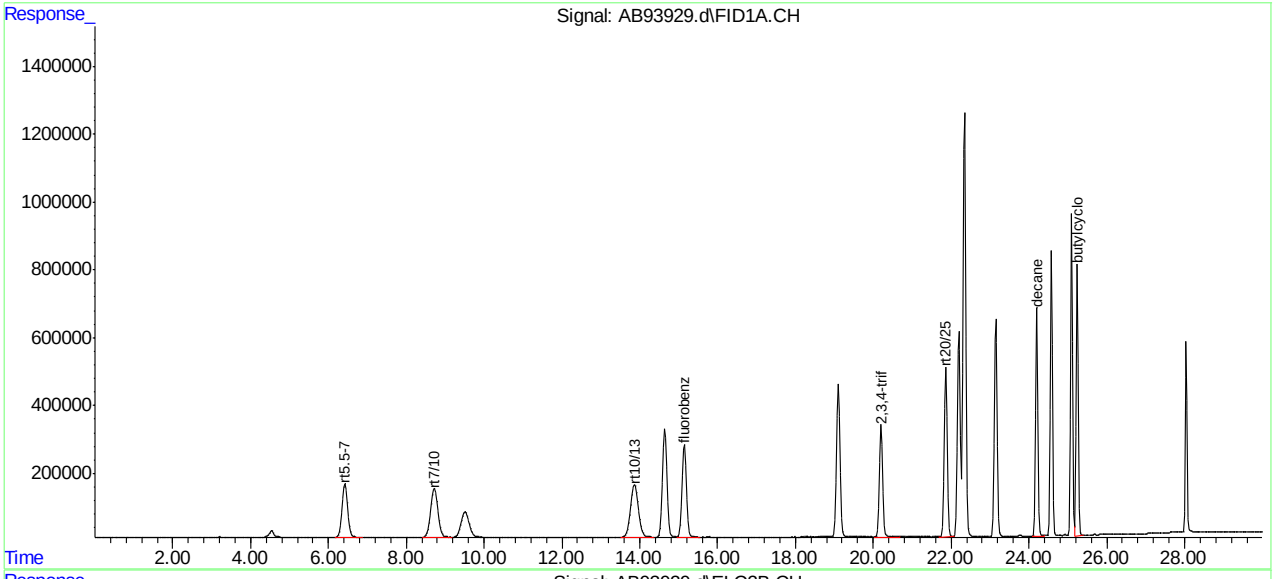
(f)=RT Delta > 1/2 Window (m)=manual int.

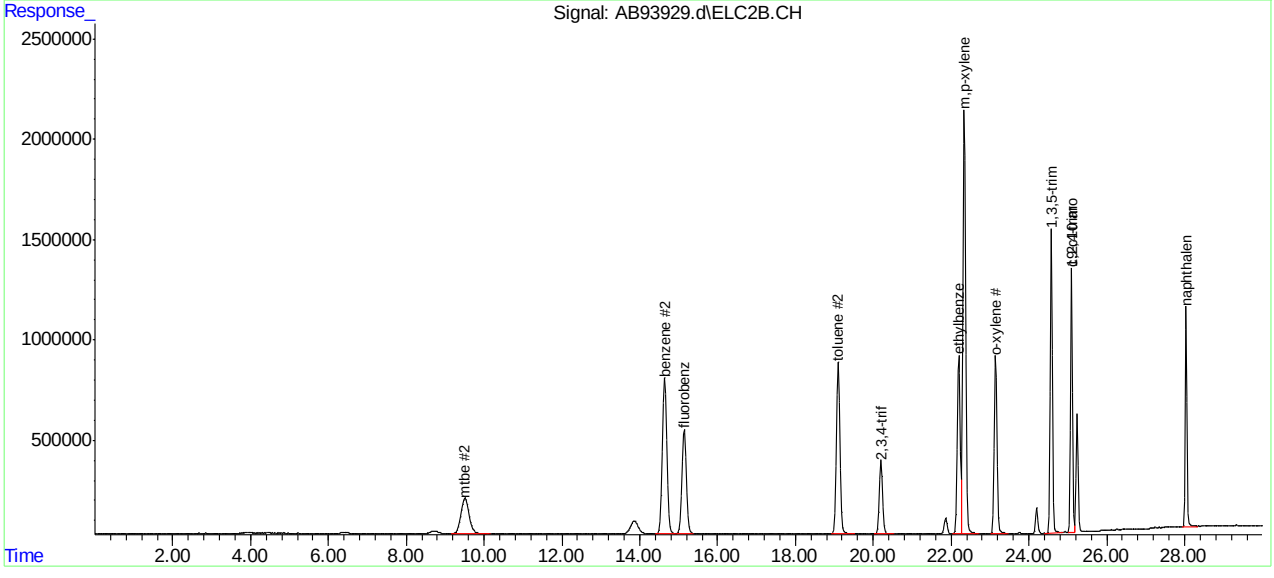
Quantitation Report (QT Reviewed)

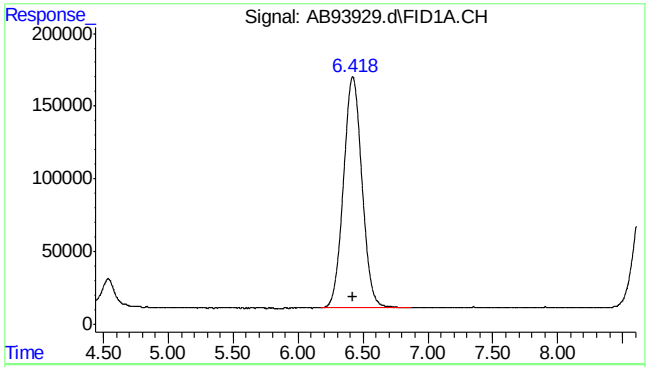
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93929.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 18:36:38
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 06:53:10 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 :

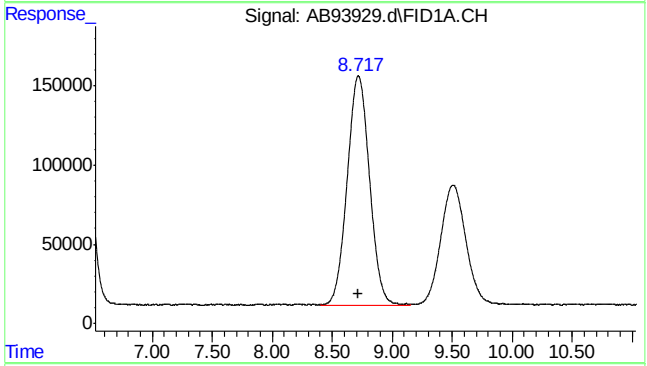






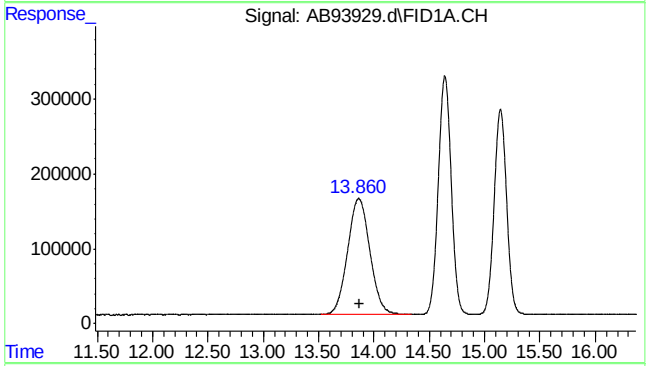
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15739739
Conc: 39.20 ppb m



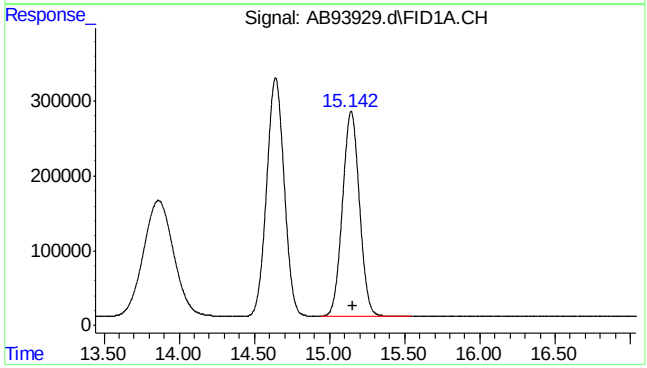
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18699454
Conc: 46.57 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21841523
Conc: 54.40 ppb m



#4 fluorobenzene

R.T.: 15.143 min
Delta R.T.: -0.008 min
Response: 21604139
Conc: 49.08 ppb

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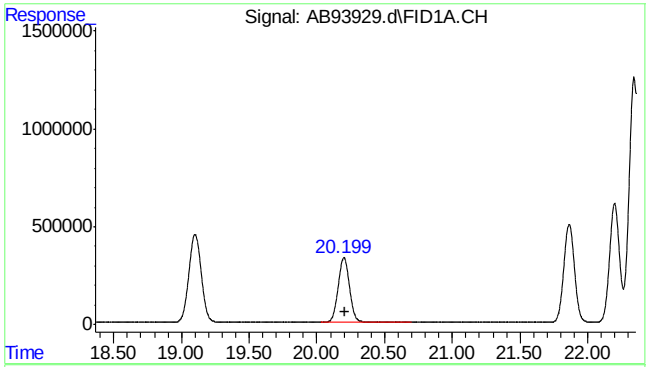
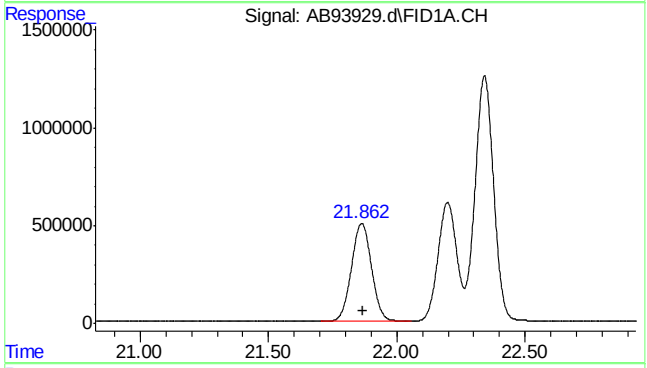


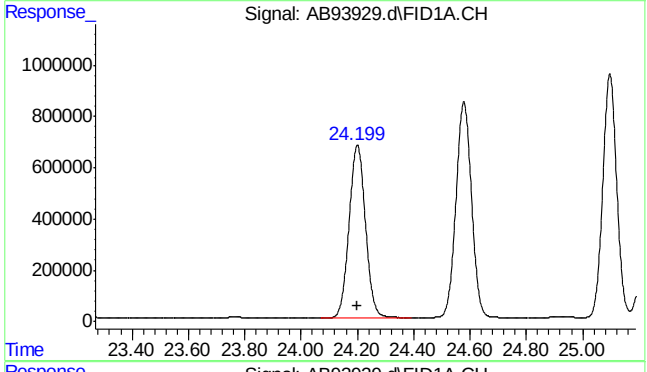
#6 2,3,4-trifluorotoluene

R.T.: 20.199 min
Delta R.T.: -0.006 min
Response: 19474627
Conc: 47.50 ppb



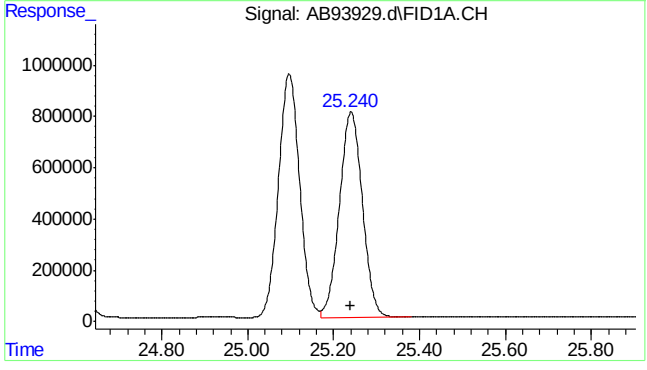
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 27185522
Conc: 43.39 ppb m



#10 decane

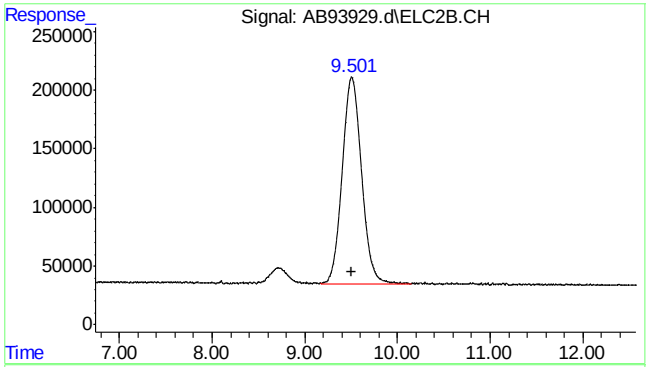
R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27290696
Conc: 43.56 ppb



#11 butylcyclohexane

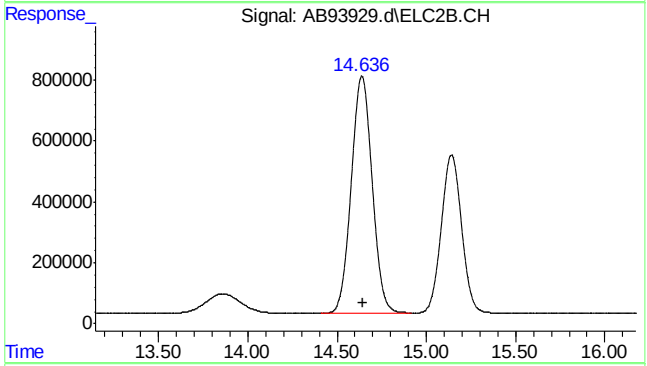
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29854162
Conc: 47.65 ppb

SGS ACCUTEST MC45678



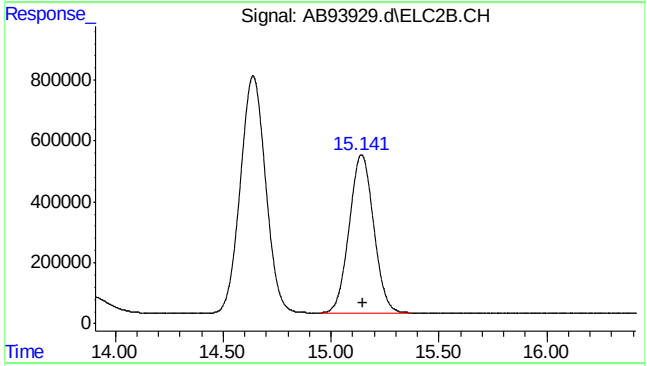
#14 mtbe #2

R.T.: 9.501 min
Delta R.T.: -0.010 min
Response: 25468553
Conc: 50.49 ppb m



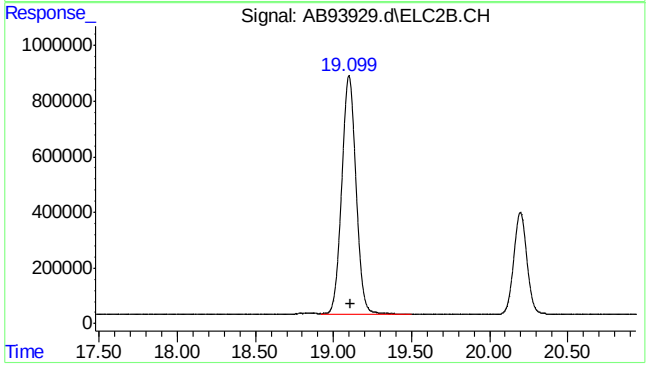
#15 benzene #2

R.T.: 14.638 min
Delta R.T.: -0.008 min
Response: 63934078
Conc: 49.12 ppb



#16 fluorobenzene #2

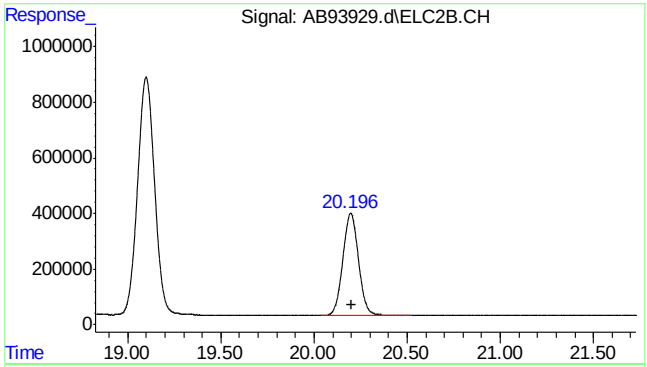
R.T.: 15.140 min
Delta R.T.: -0.008 min
Response: 41555597
Conc: 49.34 ppb



#17 toluene #2

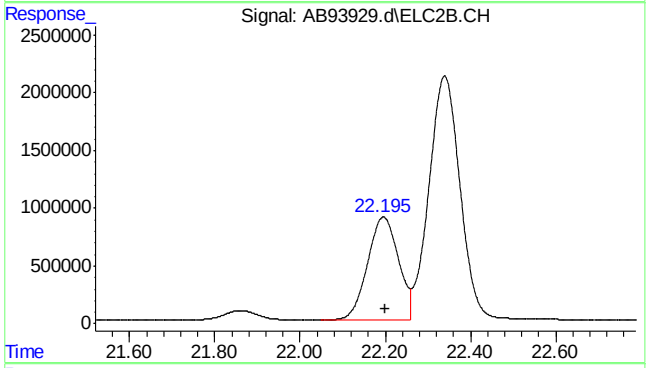
R.T.: 19.099 min
Delta R.T.: -0.007 min
Response: 55216057
Conc: 48.30 ppb

SGS ACCUTEST MC45678



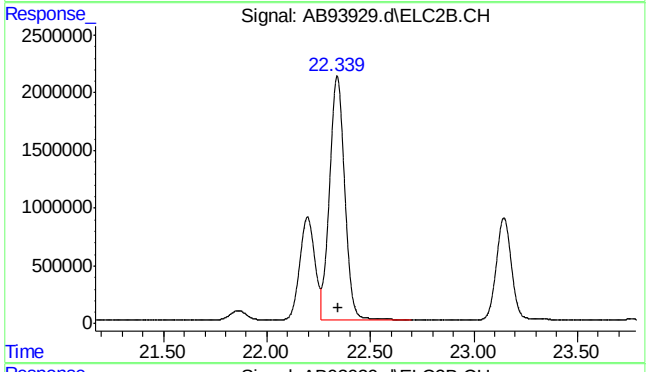
#18 2,3,4-trifluorotoluene #2

R.T.: 20.197 min
Delta R.T.: -0.006 min
Response: 21827156
Conc: 46.75 ppb



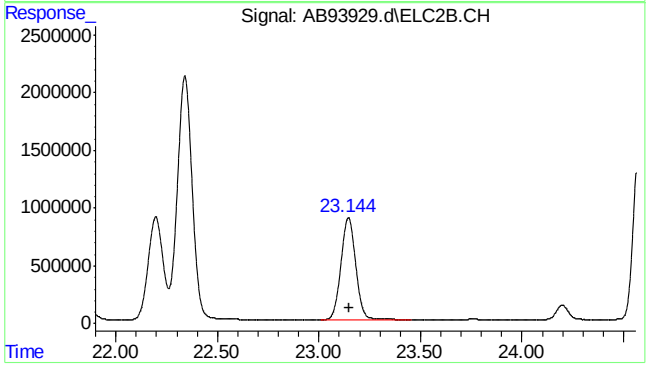
#19 ethylbenzene #2

R.T.: 22.196 min
Delta R.T.: -0.005 min
Response: 45047563
Conc: 48.66 ppb



#20 m,p-xylene #2

R.T.: 22.339 min
Delta R.T.: -0.005 min
Response: 108025607
Conc: 101.84 ppb



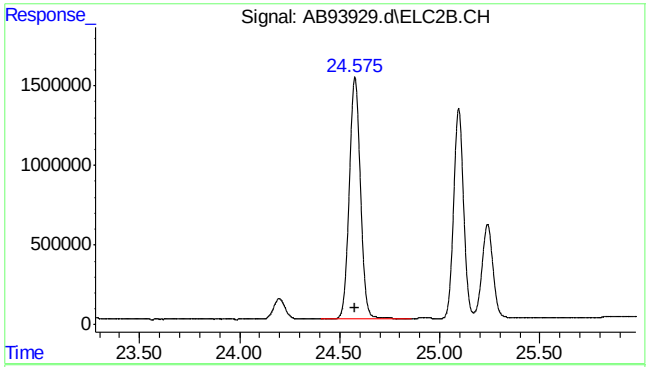
#21 o-xylene #2

R.T.: 23.145 min
Delta R.T.: -0.005 min
Response: 44938438
Conc: 48.11 ppb

7.5.12

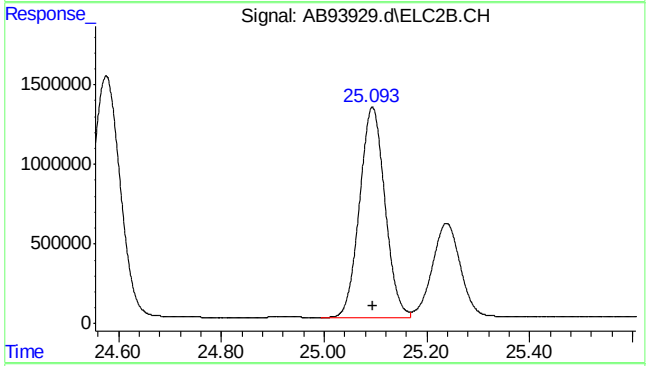
7

SGS ACCUTEST MC45678



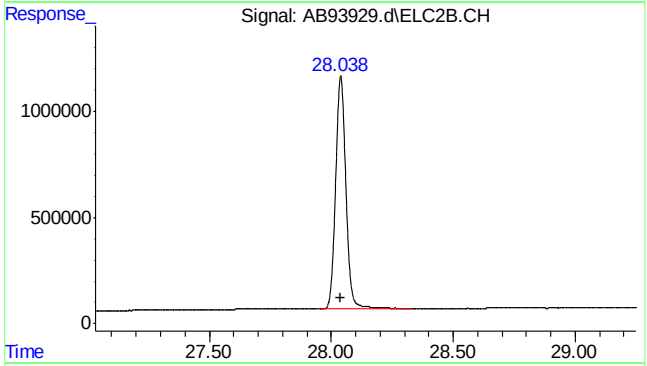
#22 1,3,5-trimethylbenzene #2

R.T.: 24.576 min
Delta R.T.: -0.003 min
Response: 58870833
Conc: 45.06 ppb



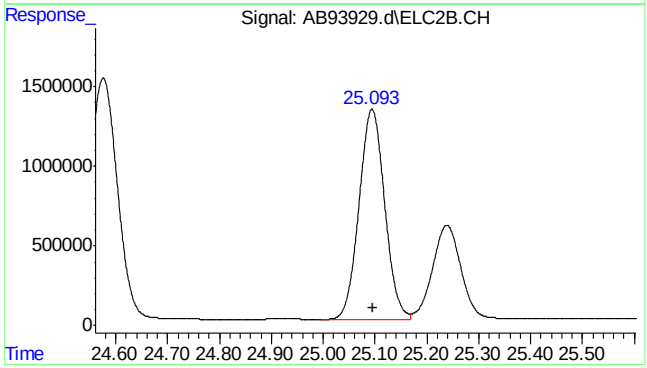
#23 1,2,4-trimethylbenzene #2

R.T.: 25.094 min
Delta R.T.: -0.002 min
Response: 45287450
Conc: 47.32 ppb



#24 naphthalene #2

R.T.: 28.038 min
Delta R.T.: 0.000 min
Response: 32275423
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: 45410817
Conc: 47.40 ppb m

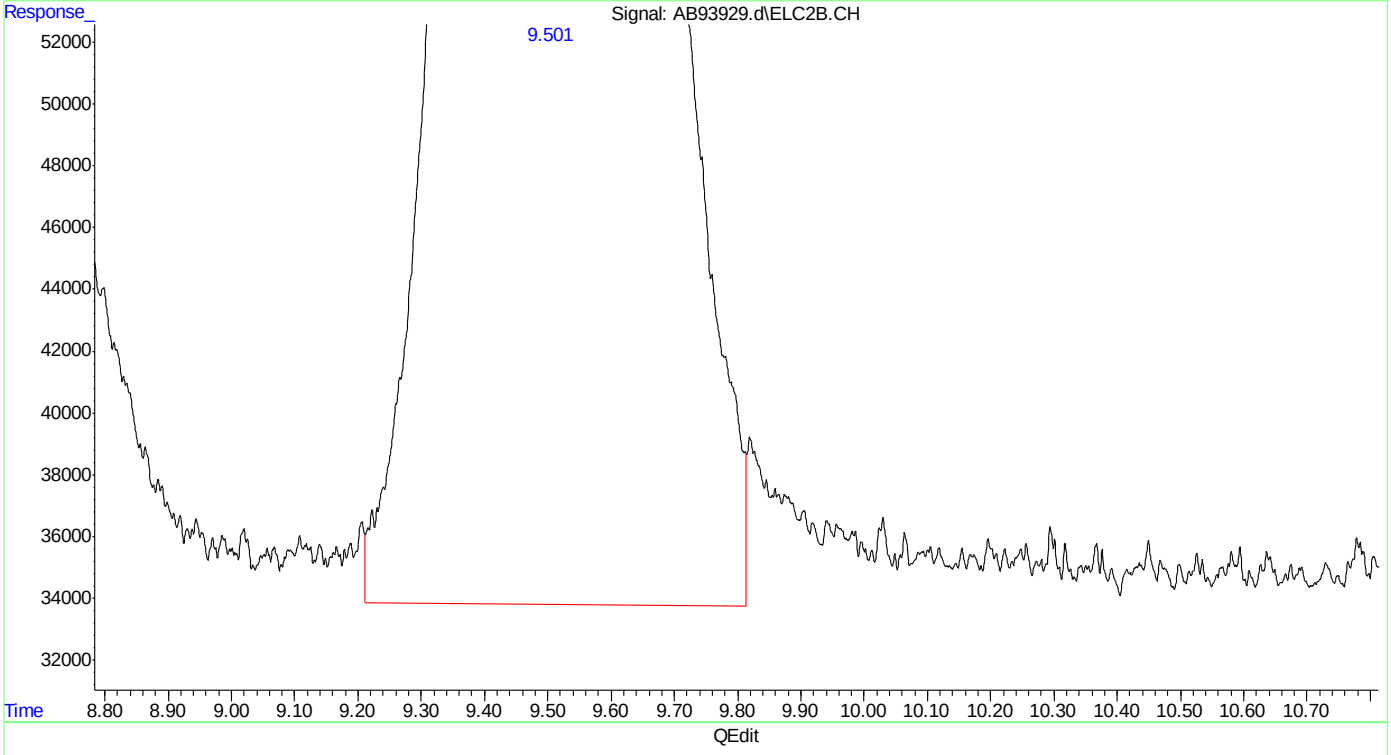
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93929.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 18:36:38
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,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 04 06:46:00 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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 50.880 ppb
response 25666589

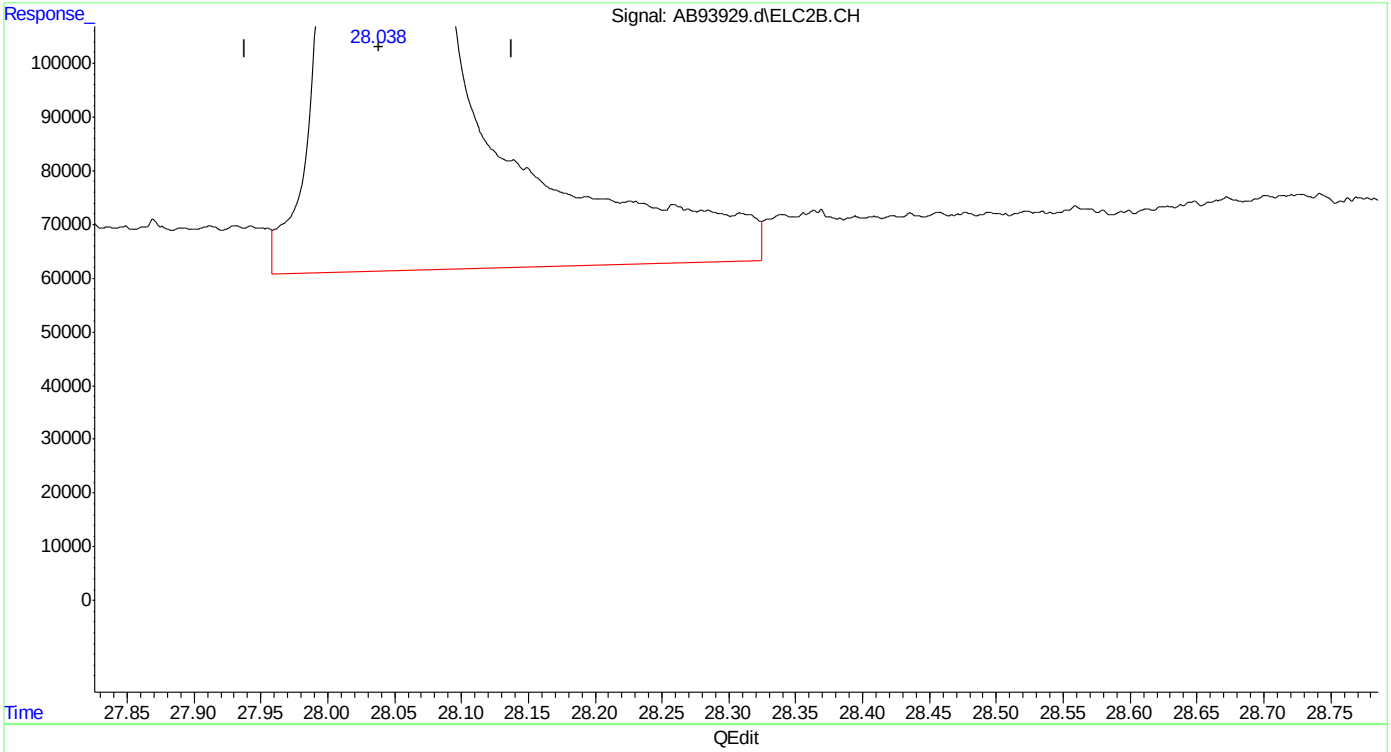
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93929.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 03-May-16, 18:36:38
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26206,gab5161,,,,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 04 06:46:00 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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

28.039min 46.975 ppb

response 33958548

(+) = Expected Retention Time

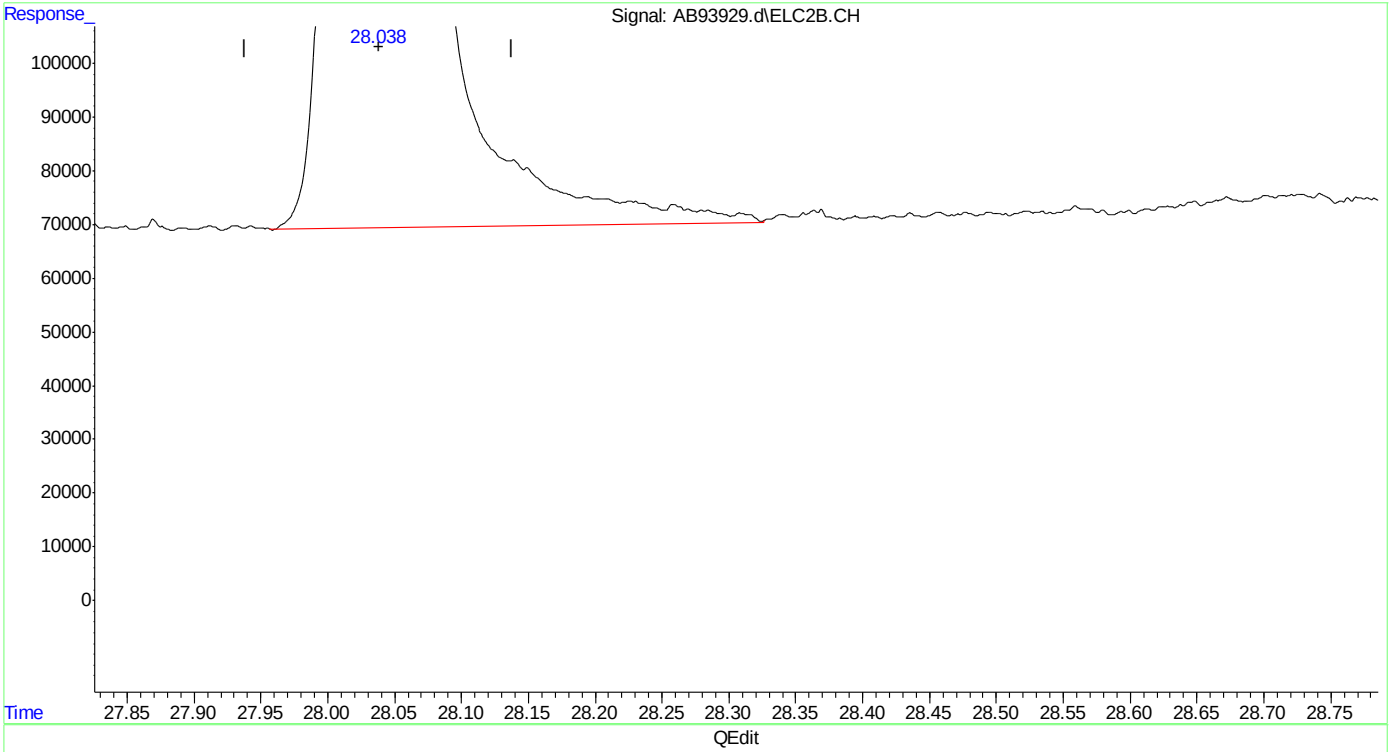
ab160503vph.M Wed May 04 06:52:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160503\
Data File : AB93929.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 03-May-16, 18:36:38
Operator : tonyf
Sample : cc5058-50
Misc : gc26206,gab5161,,,,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 04 06:46:00 2016
Quant Method : C:\msdchem\1\methods\ab160503vph.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
28.038min 44.646 ppb m
response 32275423

(+) = Expected Retention Time
ab160503vph.M Wed May 04 06:53:05 2016

SGS ACCUTEST MC45678

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93930.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:05:18
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,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 04 08:37:04 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	21236372	48.249	ppb	
Spiked Amount 50.000		Recovery =	96.50%		
6) s 2,3,4-trifluorotoluene	20.196	19002998	46.354	ppb	
Spiked Amount 50.000		Recovery =	92.71%		
16) s fluorobenzene #2	15.137	40951294	48.622	ppb	
Spiked Amount 50.000		Recovery =	97.24%		
18) s 2,3,4-trifluorotoluen...	20.194	21216944	45.444	ppb	
Spiked Amount 50.000		Recovery =	90.89%		
Target Compounds					
1) h rt5.5-7	6.420	15280821	38.058	ppb	m
2) h rt7/10	8.720	18280850	45.530	ppb	m
3) h rt10/13	13.870	21184575	52.762	ppb	m
8) h rt20/25	21.870	26261888	41.918	ppb	m
10) h decane	24.200	26370346	42.091	ppb	
11) h butylcyclohexane	25.240	28934343	46.184	ppb	
14) mtbe #2	9.501	25020206	49.599	ppb	m
15) benzene #2	14.634	62890204	48.316	ppb	
17) toluene #2	19.095	54393744	47.577	ppb	
19) ethylbenzene #2	22.193	44318344	47.868	ppb	
20) m,p-xylene #2	22.336	106259313	100.177	ppb	
21) o-xylene #2	23.142	44424482	47.557	ppb	
22) t 1,3,5-trimethylbenzen...	24.574	57846185	44.275	ppb	
23) 1,2,4-trimethylbenzen...	25.092	44415690	46.410	ppb	
24) naphthalene #2	28.037	31712553	43.868	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44364516	46.307	ppb	m

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

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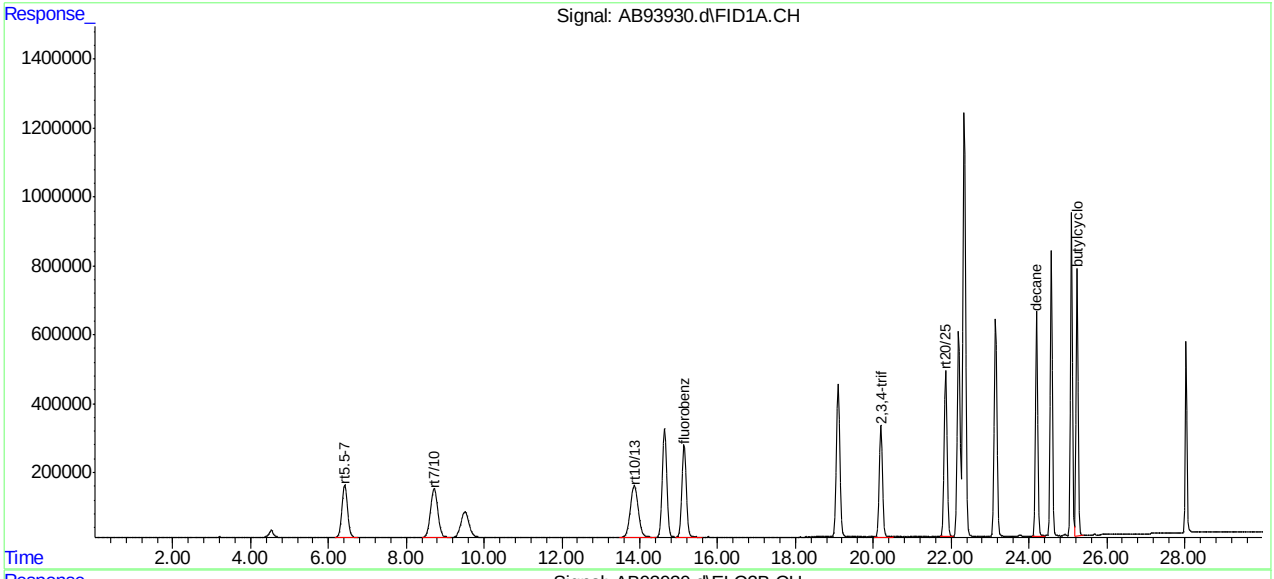
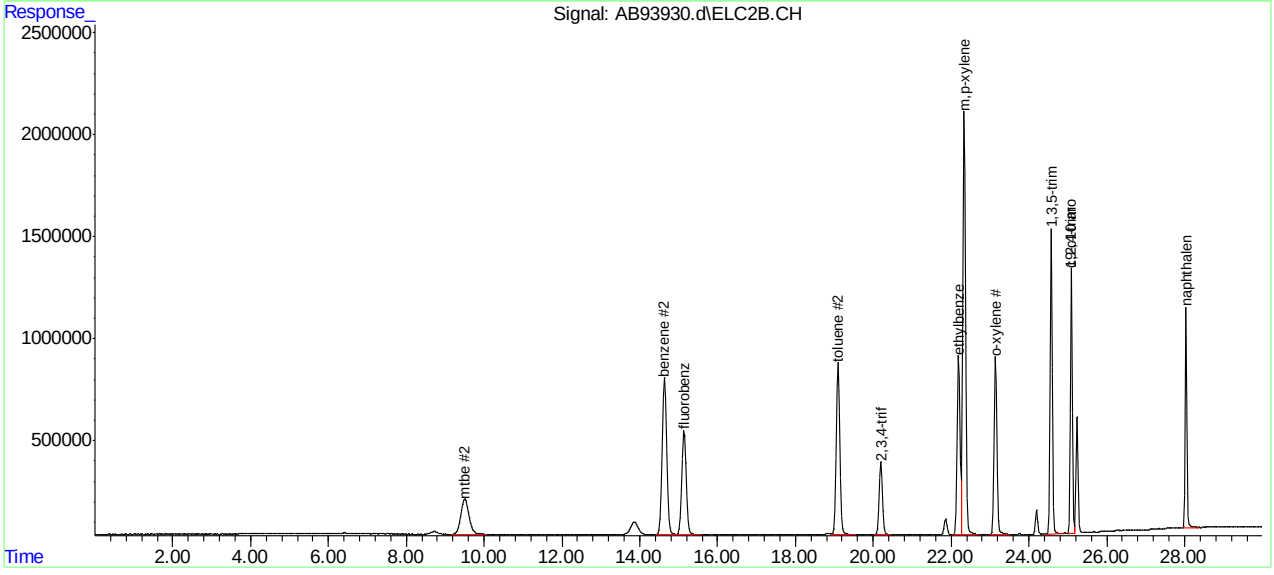
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93930.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:05:18
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

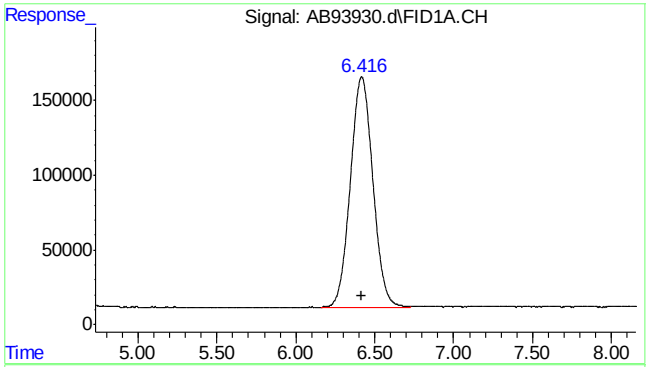
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 08:37:04 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



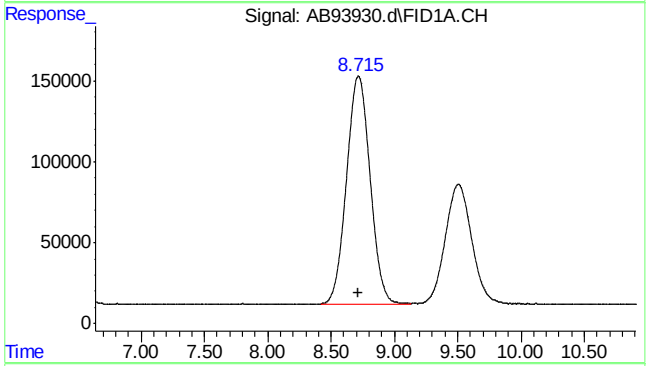


SGS ACCUTEST MC45678



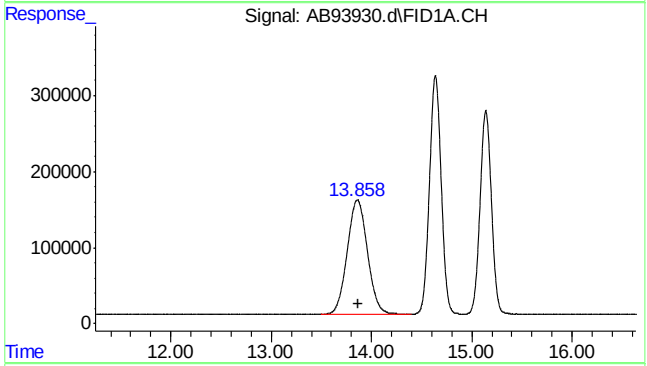
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15280821
Conc: 38.06 ppb m



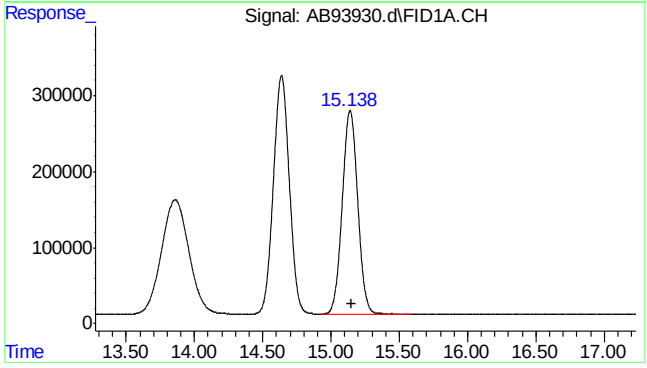
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18280850
Conc: 45.53 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21184575
Conc: 52.76 ppb m



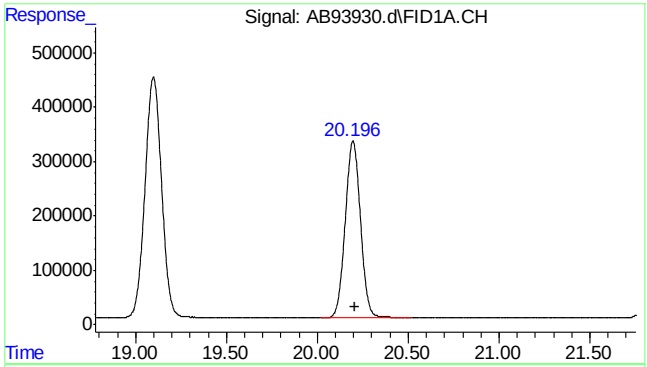
#4 fluorobenzene

R.T.: 15.139 min
Delta R.T.: -0.012 min
Response: 21236372
Conc: 48.25 ppb

7.5.13

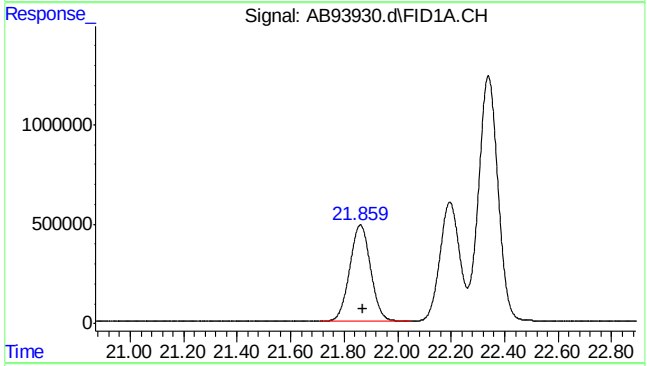
7

SGS ACCUTEST MC45678



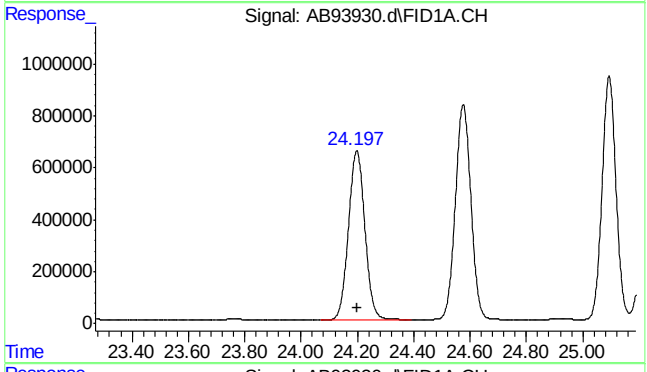
#6 2,3,4-trifluorotoluene

```
      R.T.:   20.196 min
Delta R.T.:   -0.009 min
  Response:  19002998
      Conc:  46.35 ppb
```



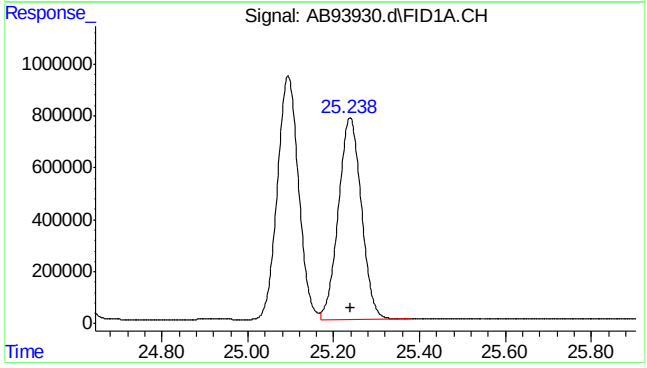
#8 rt20/25

```
      R.T.:   21.870 min
Delta R.T.:    0.000 min
  Response:  26261888
      Conc:  41.92 ppb m
```



#10 decane

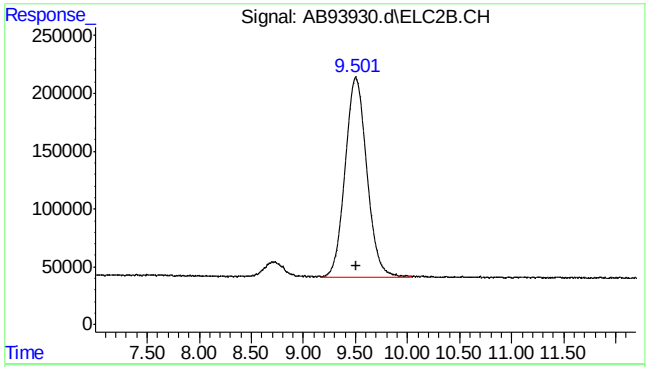
```
      R.T.:   24.200 min
Delta R.T.:    0.000 min
  Response:  26370346
      Conc:  42.09 ppb
```



#11 butylcyclohexane

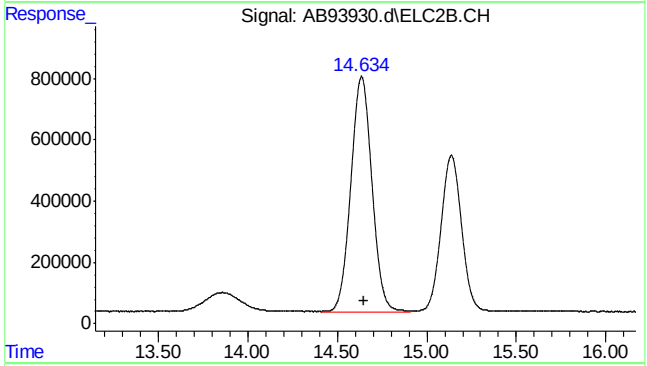
```
      R.T.:   25.240 min
Delta R.T.:    0.000 min
  Response:  28934343
      Conc:  46.18 ppb
```


SGS ACCUTEST MC45678



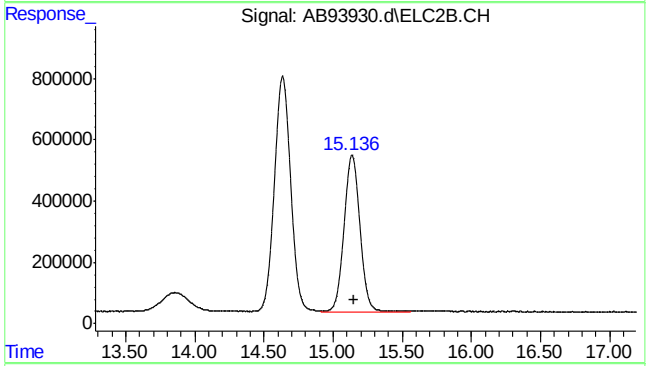
#14 mtbe #2

R.T.: 9.501 min
Delta R.T.: -0.010 min
Response: 25020206
Conc: 49.60 ppb m



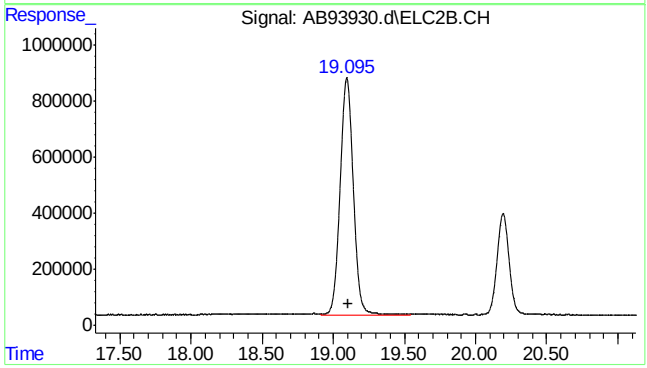
#15 benzene #2

R.T.: 14.634 min
Delta R.T.: -0.012 min
Response: 62890204
Conc: 48.32 ppb



#16 fluorobenzene #2

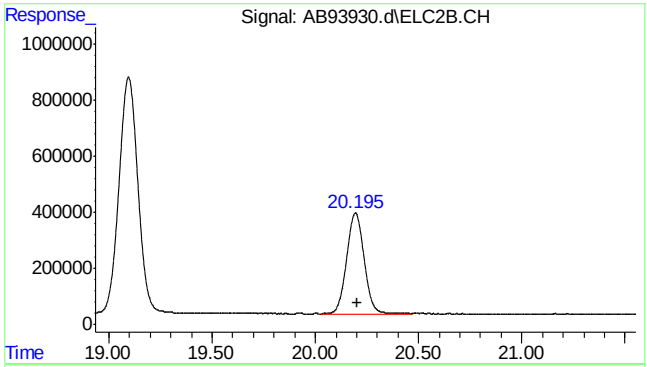
R.T.: 15.137 min
Delta R.T.: -0.011 min
Response: 40951294
Conc: 48.62 ppb



#17 toluene #2

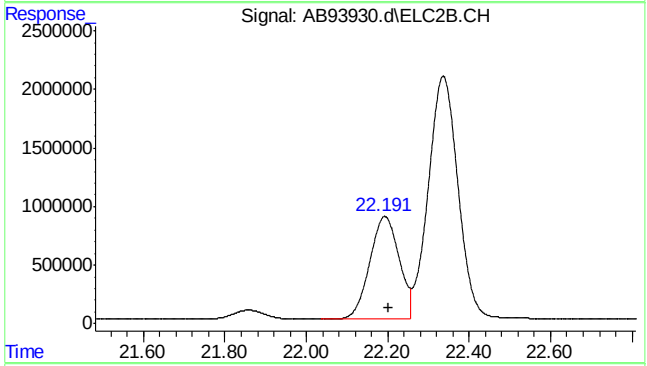
R.T.: 19.095 min
Delta R.T.: -0.011 min
Response: 54393744
Conc: 47.58 ppb

SGS ACCUTEST MC45678



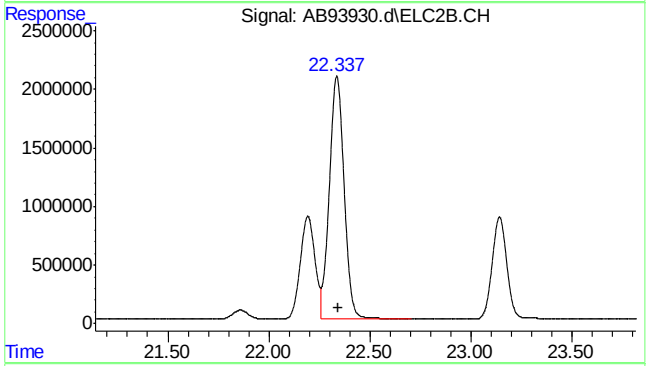
#18 2,3,4-trifluorotoluene #2

R.T.: 20.194 min
Delta R.T.: -0.009 min
Response: 21216944
Conc: 45.44 ppb



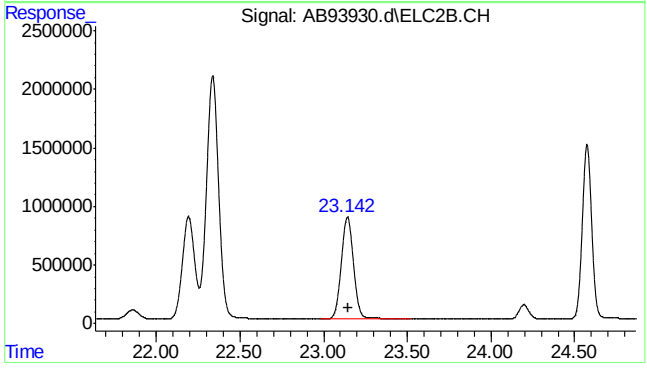
#19 ethylbenzene #2

R.T.: 22.193 min
Delta R.T.: -0.008 min
Response: 44318344
Conc: 47.87 ppb



#20 m,p-xylene #2

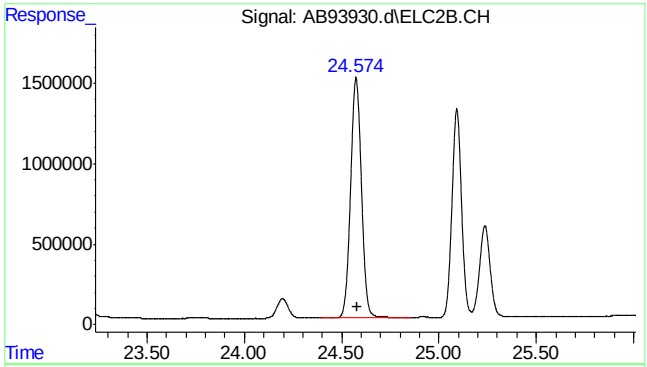
R.T.: 22.336 min
Delta R.T.: -0.008 min
Response: 106259313
Conc: 100.18 ppb



#21 o-xylene #2

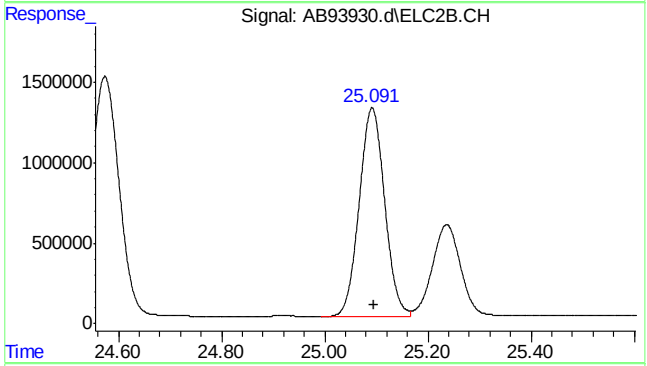
R.T.: 23.142 min
Delta R.T.: -0.008 min
Response: 44424482
Conc: 47.56 ppb

SGS ACCUTEST MC45678



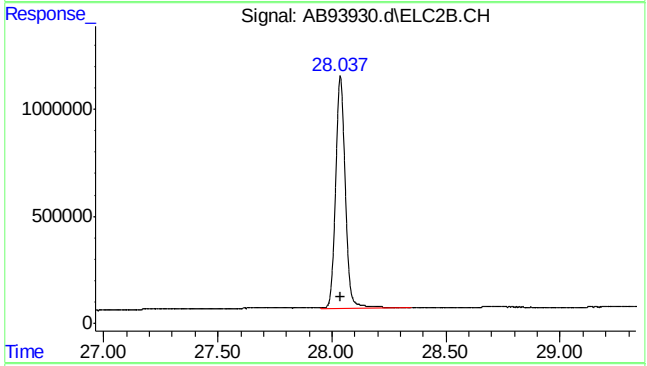
#22 1,3,5-trimethylbenzene #2

R.T.: 24.574 min
Delta R.T.: -0.005 min
Response: 57846185
Conc: 44.28 ppb



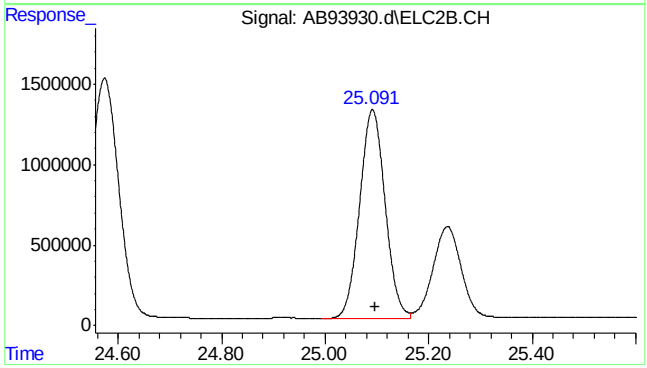
#23 1,2,4-trimethylbenzene #2

R.T.: 25.092 min
Delta R.T.: -0.004 min
Response: 44415690
Conc: 46.41 ppb



#24 naphthalene #2

R.T.: 28.037 min
Delta R.T.: -0.002 min
Response: 31712553
Conc: 43.87 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44364516
Conc: 46.31 ppb m

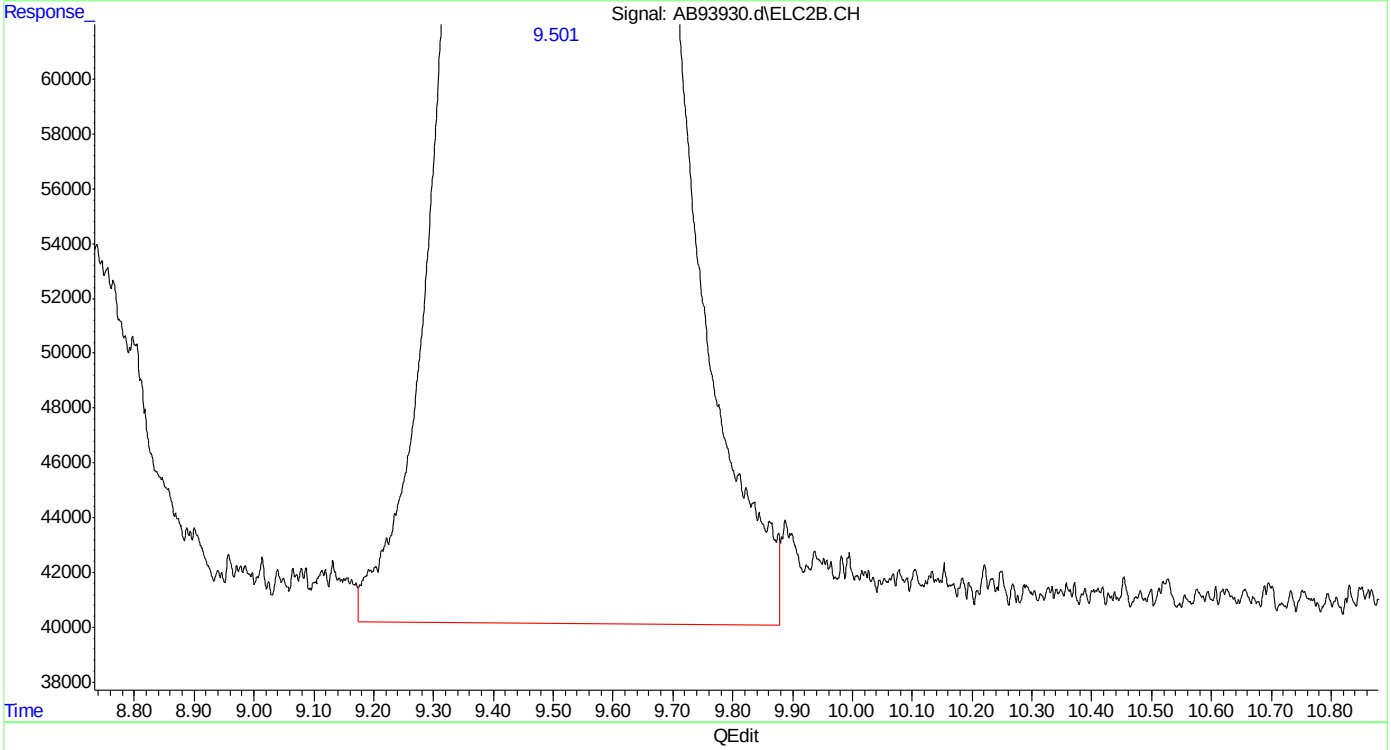
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93930.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:05:18
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,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 04 08:36:02 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 50.306 ppb
response 25376860

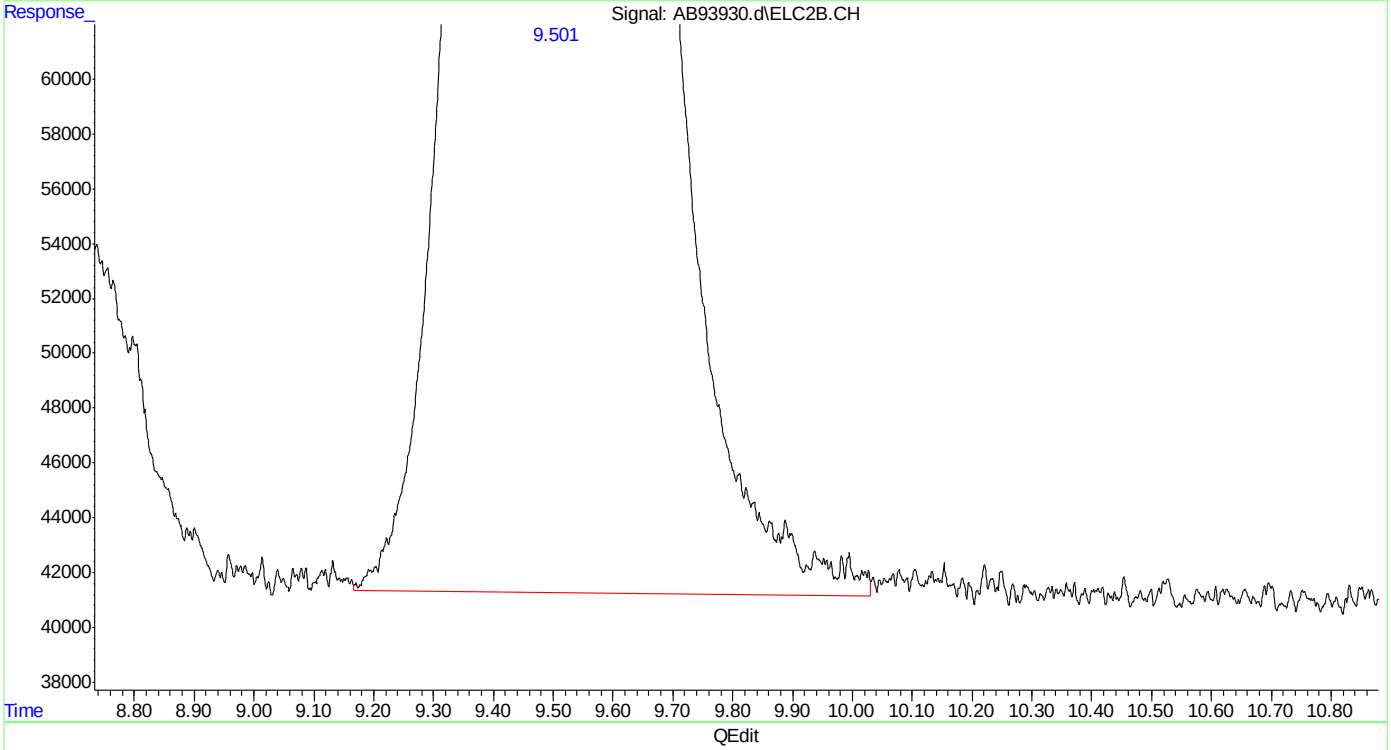
(+) = Expected Retention Time
ab160504vph.M Wed May 04 08:36:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93930.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 08:05:18
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,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 04 08:36:02 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 49.599 ppb m
response 25020206

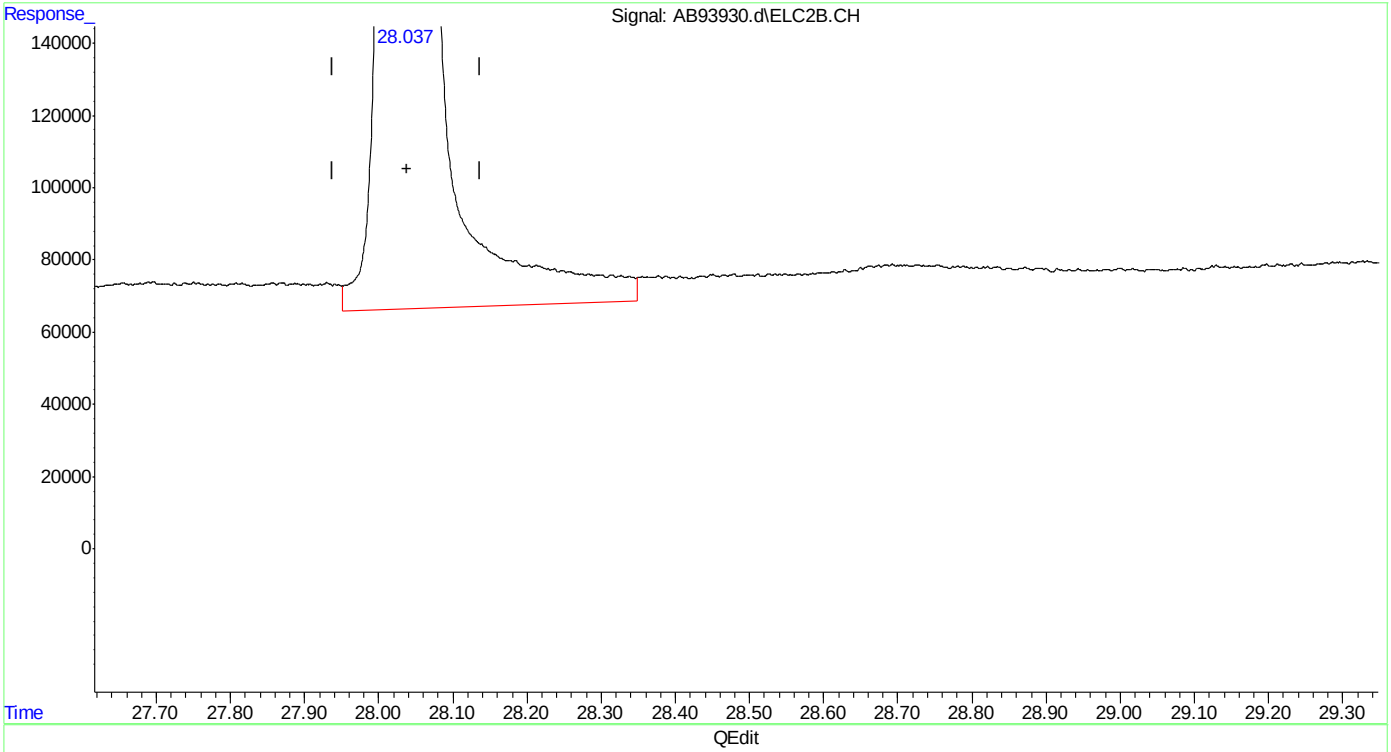
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93930.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 08:05:18
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26207,gab5162,,,,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 04 08:36:02 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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

28.037min 46.078 ppb

response 33310230

(+) = Expected Retention Time

ab160504vph.M Wed May 04 08:36:52 2016

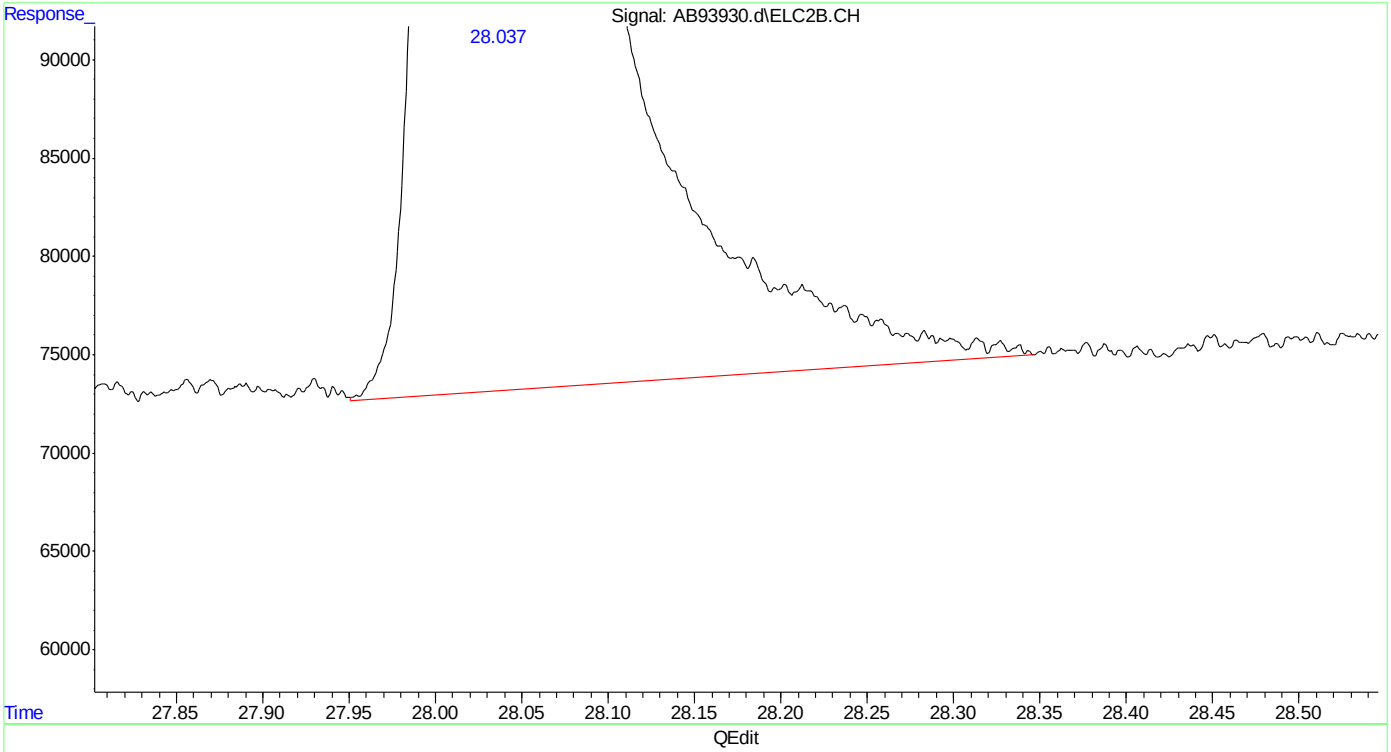
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93930.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 08:05:18
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26207,gab5162,,,,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 04 08:36:02 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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

28.037min 43.868 ppb m

response 31712553

(+) = Expected Retention Time

SGS ACCUTEST MC45678

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93935.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 11:14:36
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,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 04 11:46:16 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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	21366223	48.544	ppb	
Spiked Amount 50.000		Recovery =	97.09%		
6) s 2,3,4-trifluorotoluene	20.195	19234824	46.920	ppb	
Spiked Amount 50.000		Recovery =	93.84%		
16) s fluorobenzene #2	15.136	40997188	48.676	ppb	
Spiked Amount 50.000		Recovery =	97.35%		
18) s 2,3,4-trifluorotoluen...	20.193	21390815	45.817	ppb	
Spiked Amount 50.000		Recovery =	91.63%		
Target Compounds					
1) h rt5.5-7	6.420	15367700	38.275	ppb	m
2) h rt7/10	8.720	18340468	45.679	ppb	m
3) h rt10/13	13.870	21607049	53.815	ppb	m
8) h rt20/25	21.870	26837519	42.837	ppb	m
10) h decane	24.200	27124558	43.295	ppb	
11) h butylcyclohexane	25.240	29388031	46.908	ppb	
14) mtbe #2	9.500	25076248	49.710	ppb	m
15) benzene #2	14.634	62838467	48.276	ppb	
17) toluene #2	19.095	54220777	47.426	ppb	
19) ethylbenzene #2	22.192	44428682	47.987	ppb	
20) m,p-xylene #2	22.336	106415039	100.324	ppb	
21) o-xylene #2	23.141	44313959	47.438	ppb	
22) t 1,3,5-trimethylbenzen...	24.573	57754261	44.205	ppb	
23) 1,2,4-trimethylbenzen...	25.091	44437242	46.432	ppb	
24) naphthalene #2	28.036	31303605	43.302	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.096	44477794	46.426	ppb	m

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

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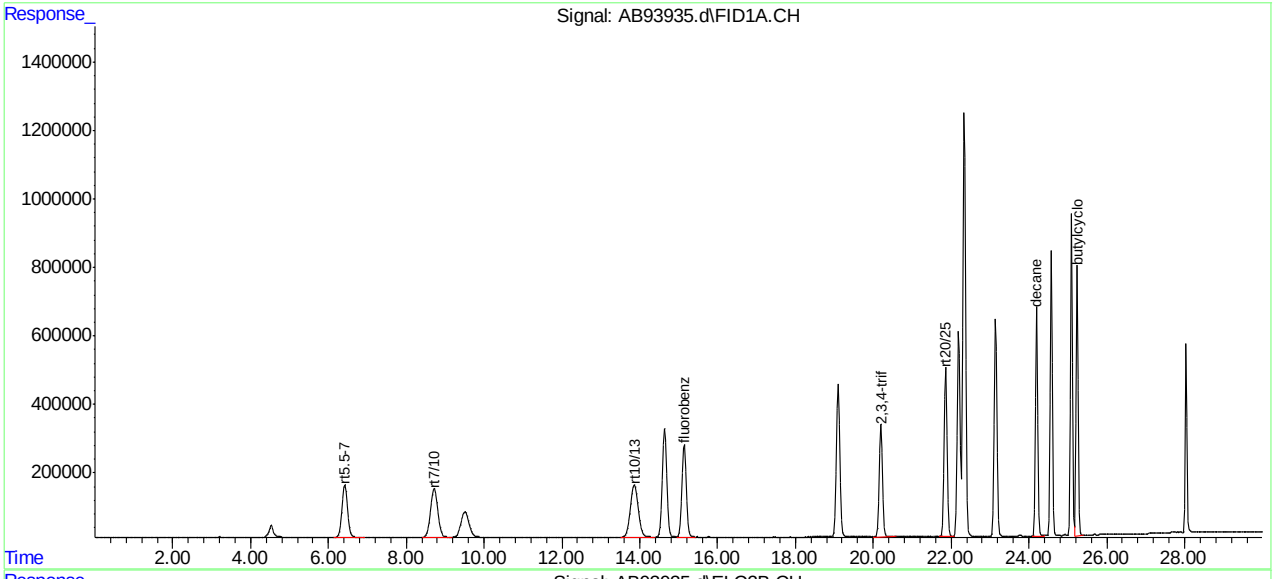
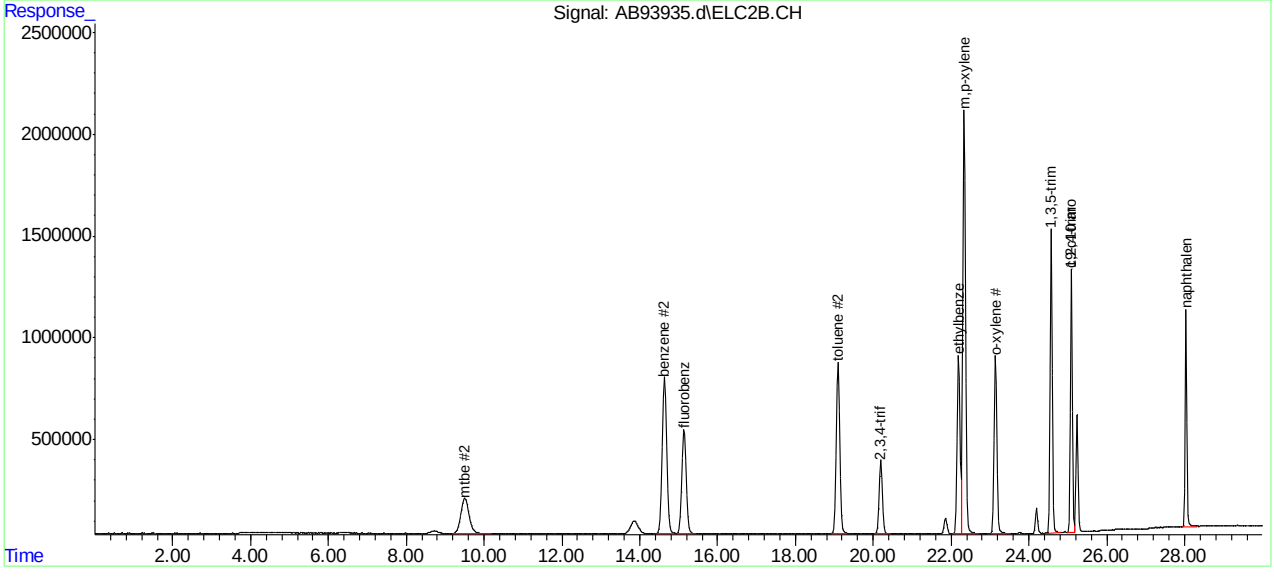
Quantitation Report (QT Reviewed)

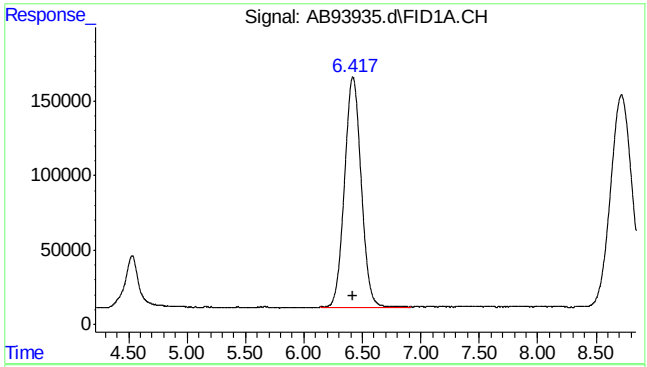
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93935.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 11:14:36
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 04 11:46:16 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 :

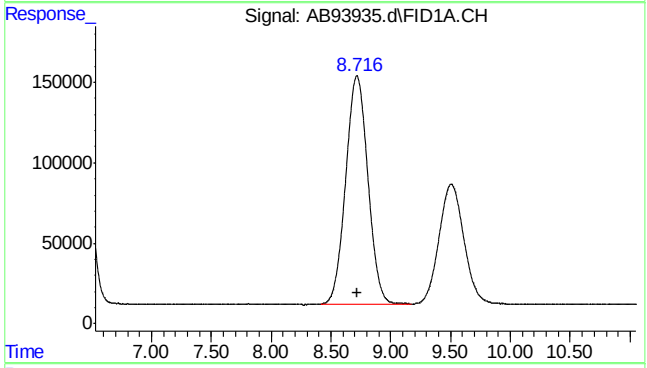






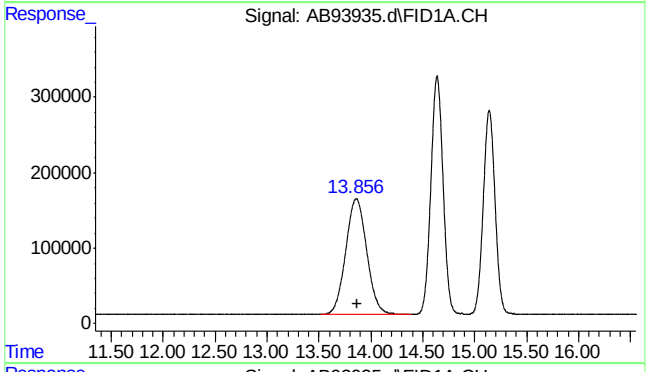
#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15367700
Conc: 38.27 ppb m



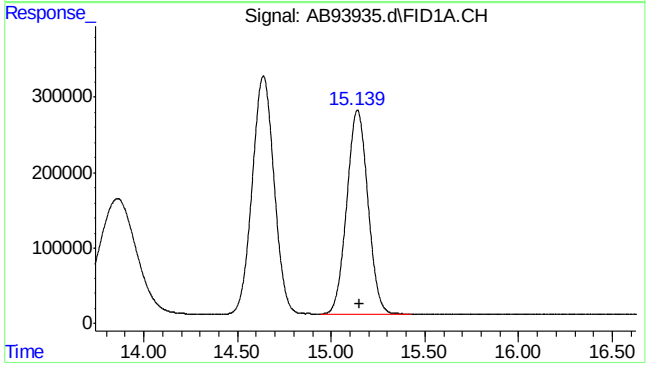
#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18340468
Conc: 45.68 ppb m



#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21607049
Conc: 53.81 ppb m



#4 fluorobenzene

R.T.: 15.140 min
Delta R.T.: -0.012 min
Response: 21366223
Conc: 48.54 ppb

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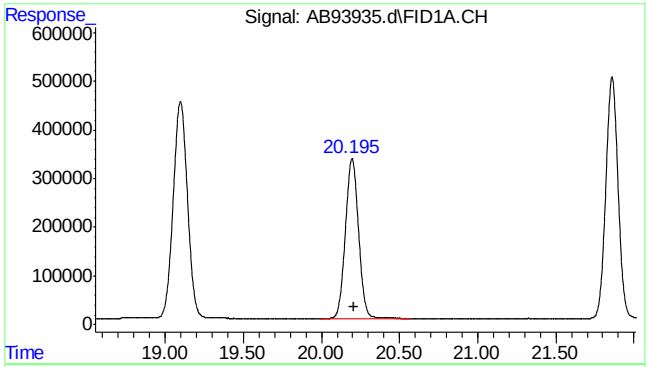
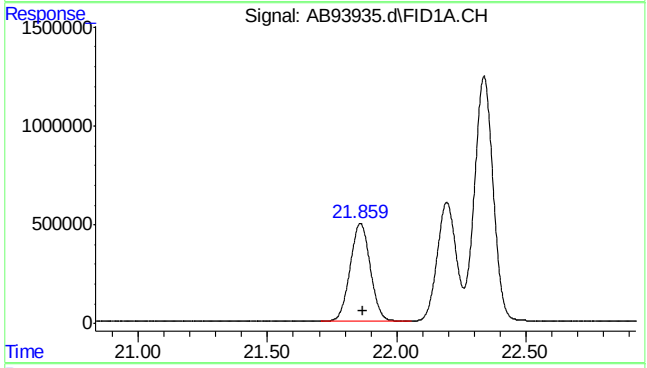


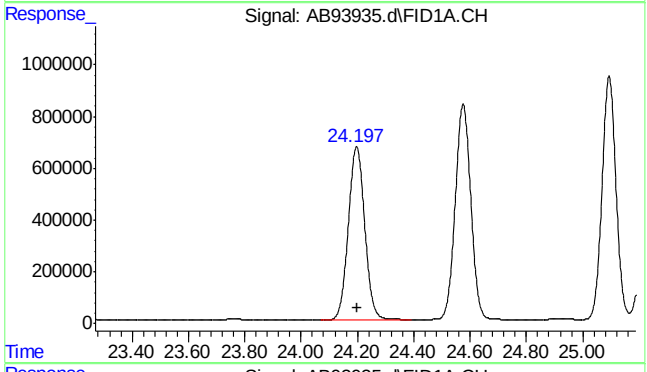
#6 2,3,4-trifluorotoluene

R.T.: 20.195 min
Delta R.T.: -0.010 min
Response: 19234824
Conc: 46.92 ppb



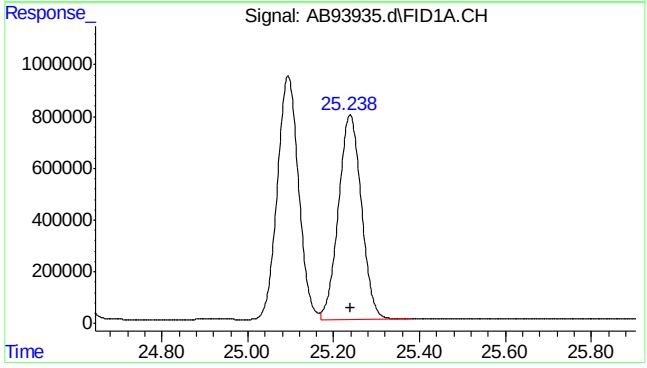
#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26837519
Conc: 42.84 ppb m



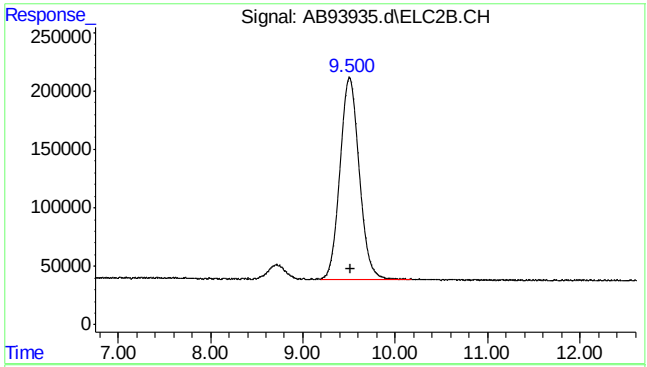
#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27124558
Conc: 43.30 ppb



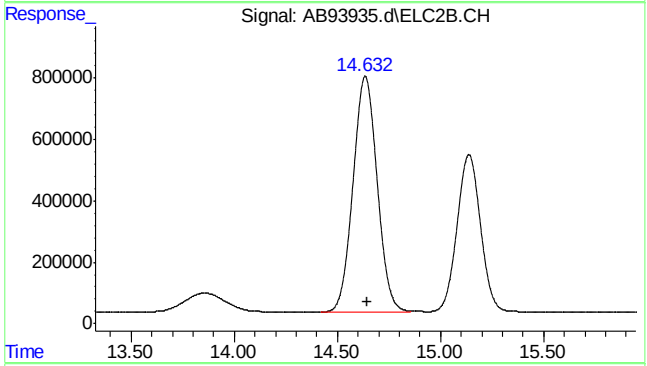
#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29388031
Conc: 46.91 ppb



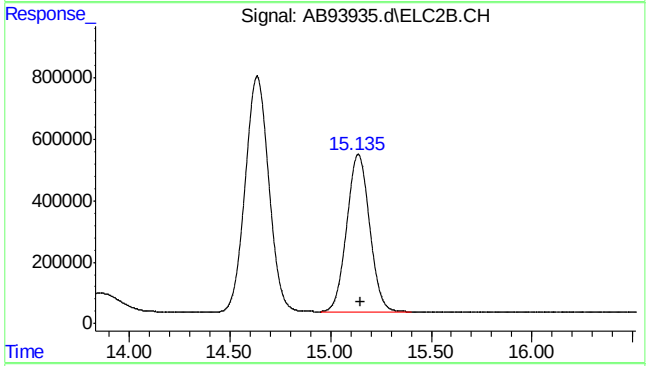
#14 mtbe #2

R.T.: 9.500 min
Delta R.T.: -0.011 min
Response: 25076248
Conc: 49.71 ppb m



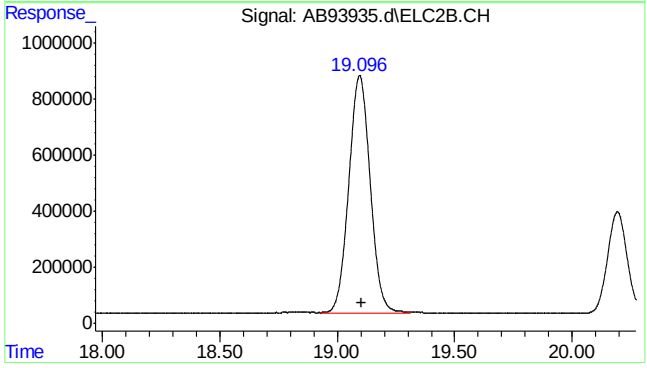
#15 benzene #2

R.T.: 14.634 min
Delta R.T.: -0.012 min
Response: 62838467
Conc: 48.28 ppb



#16 fluorobenzene #2

R.T.: 15.136 min
Delta R.T.: -0.012 min
Response: 40997188
Conc: 48.68 ppb



#17 toluene #2

R.T.: 19.095 min
Delta R.T.: -0.011 min
Response: 54220777
Conc: 47.43 ppb

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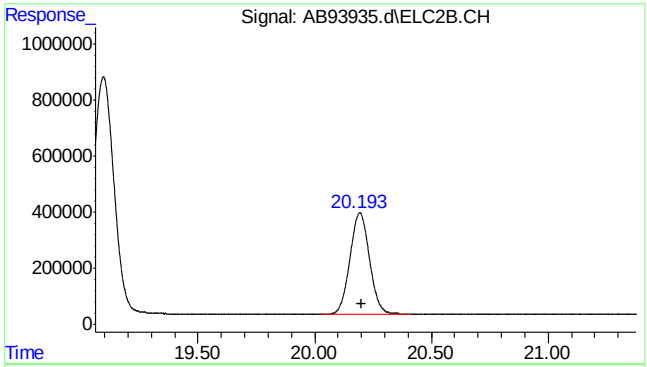
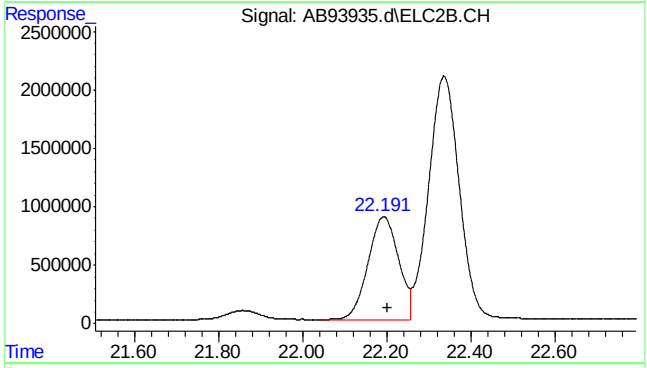


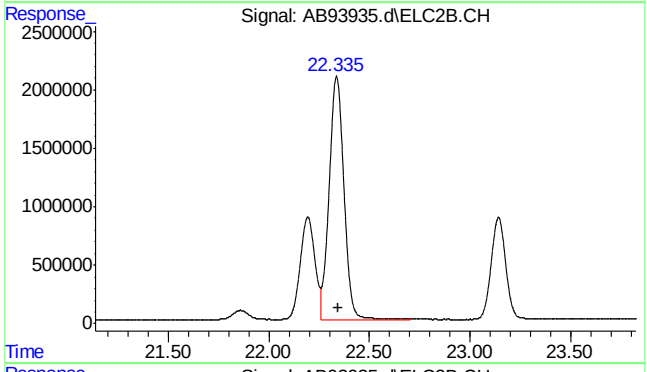
#18 2,3,4-trifluorotoluene #2

R.T.: 20.193 min
Delta R.T.: -0.010 min
Response: 21390815
Conc: 45.82 ppb



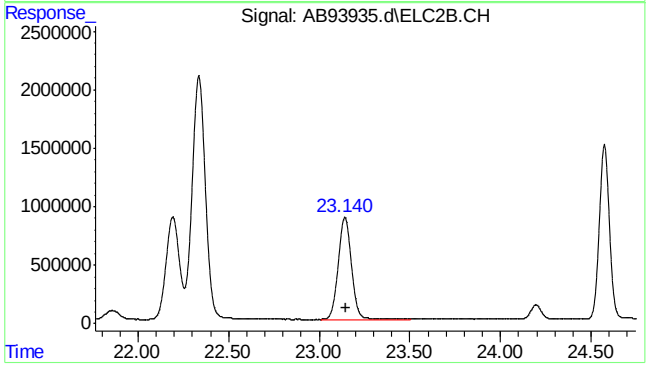
#19 ethylbenzene #2

R.T.: 22.192 min
Delta R.T.: -0.009 min
Response: 44428682
Conc: 47.99 ppb



#20 m,p-xylene #2

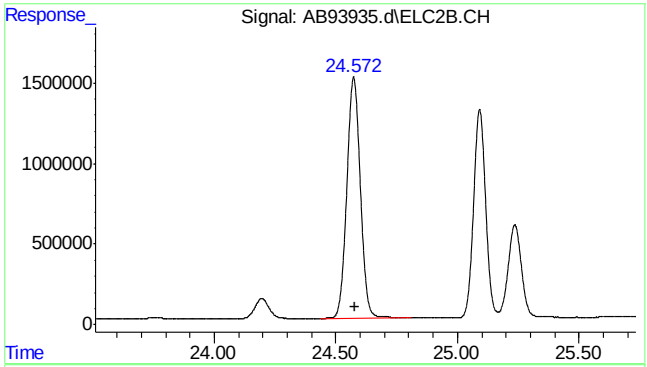
R.T.: 22.336 min
Delta R.T.: -0.008 min
Response: 106415039
Conc: 100.32 ppb



#21 o-xylene #2

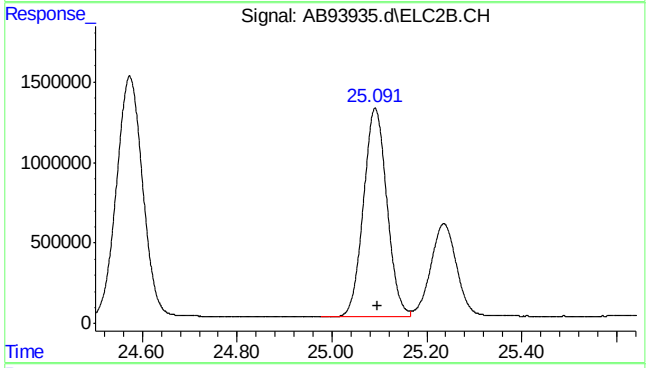
R.T.: 23.141 min
Delta R.T.: -0.008 min
Response: 44313959
Conc: 47.44 ppb

SGS ACCUTEST MC45678



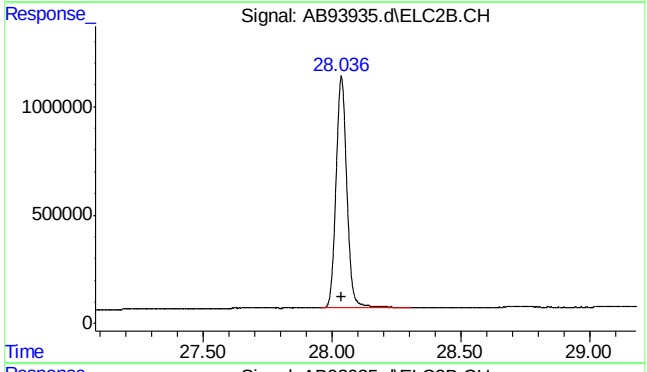
#22 1,3,5-trimethylbenzene #2

R.T.: 24.573 min
Delta R.T.: -0.006 min
Response: 57754261
Conc: 44.20 ppb



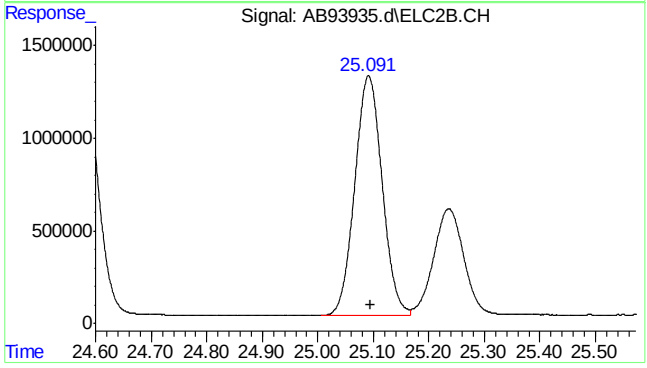
#23 1,2,4-trimethylbenzene #2

R.T.: 25.091 min
Delta R.T.: -0.005 min
Response: 44437242
Conc: 46.43 ppb



#24 naphthalene #2

R.T.: 28.036 min
Delta R.T.: -0.003 min
Response: 31303605
Conc: 43.30 ppb m



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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 44477794
Conc: 46.43 ppb m

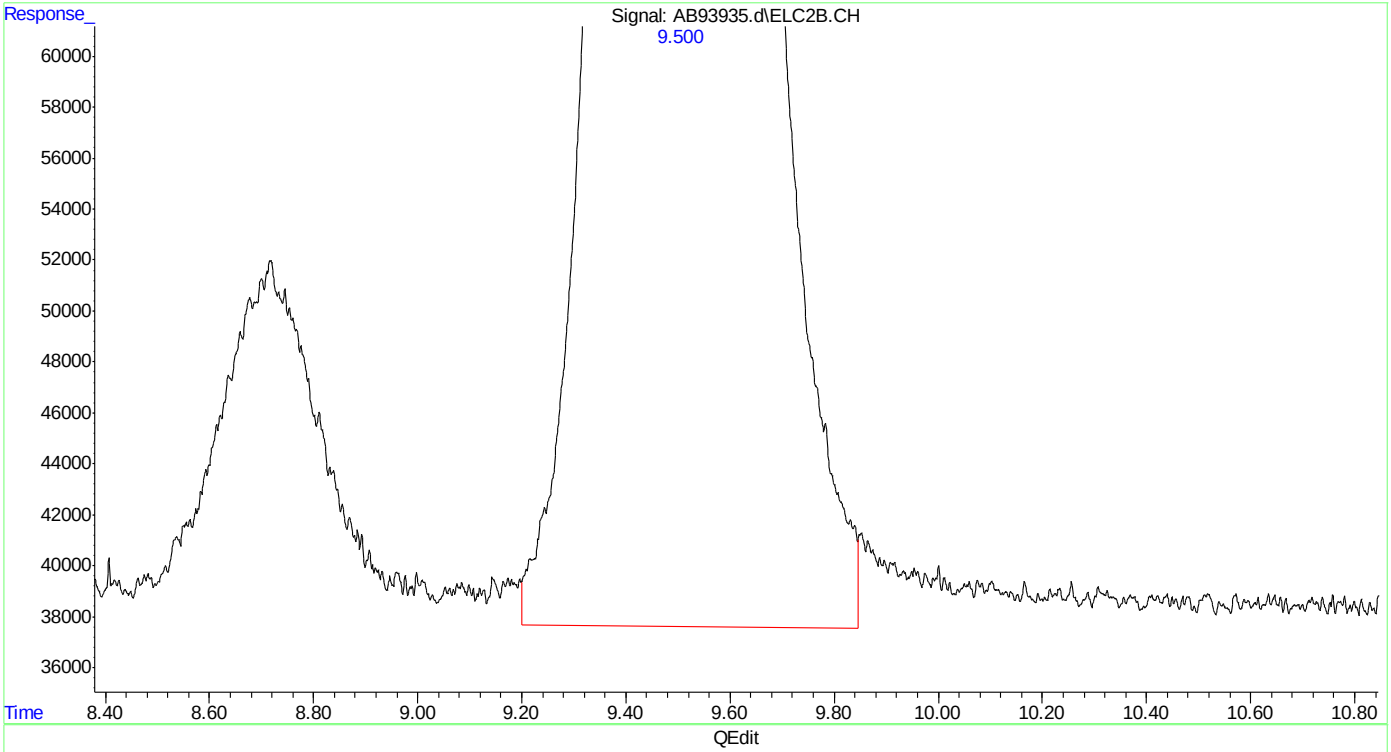
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93935.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 11:14:36
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26207,gab5162,,,,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 04 11:44:51 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 50.173 ppb

response 25309773

(+) = Expected Retention Time

ab160504vph.M Wed May 04 11:45:54 2016

Page: 1

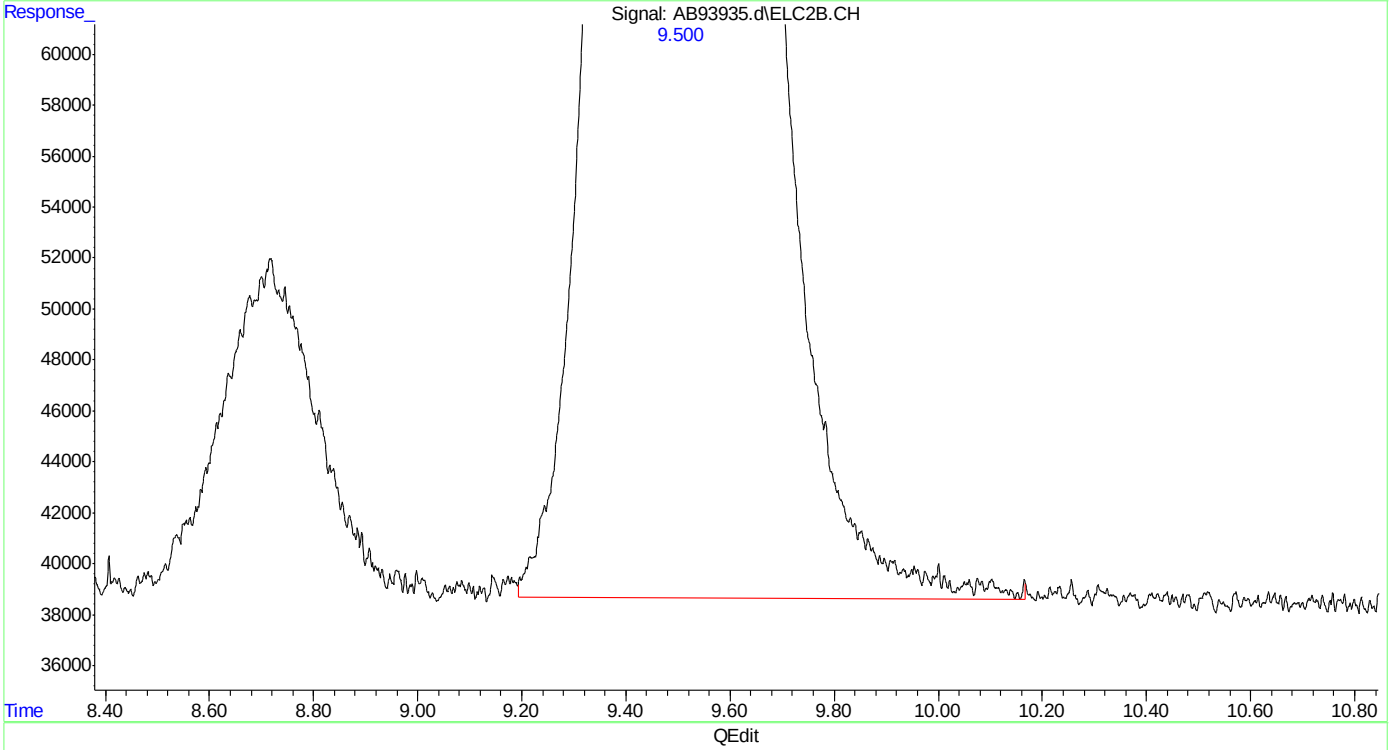
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93935.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 04-May-16, 11:14:36
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26207,gab5162,,,,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 04 11:44:51 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 49.710 ppb m

response 25076248

(+) = Expected Retention Time

ab160504vph.M Wed May 04 11:45:58 2016

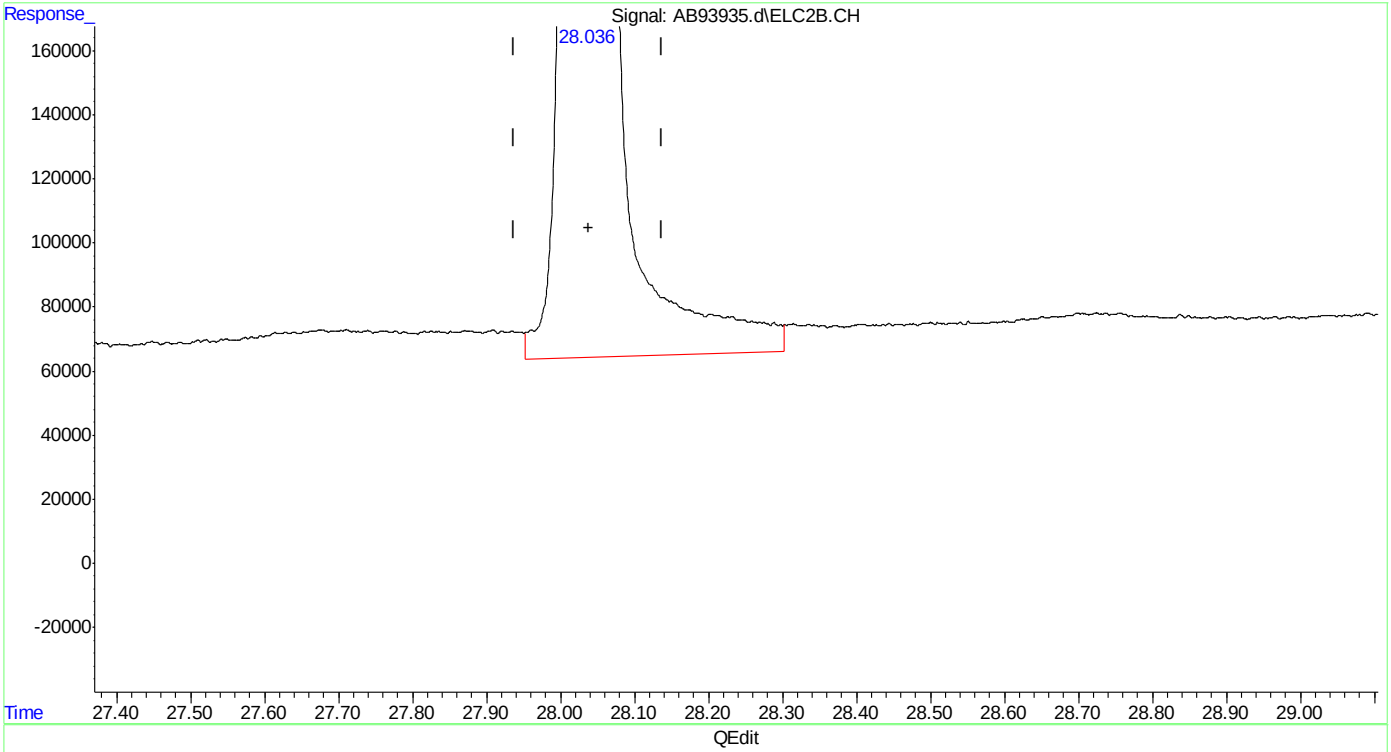
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93935.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 11:14:36
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,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 04 11:44:51 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 45.554 ppb
response 32931256

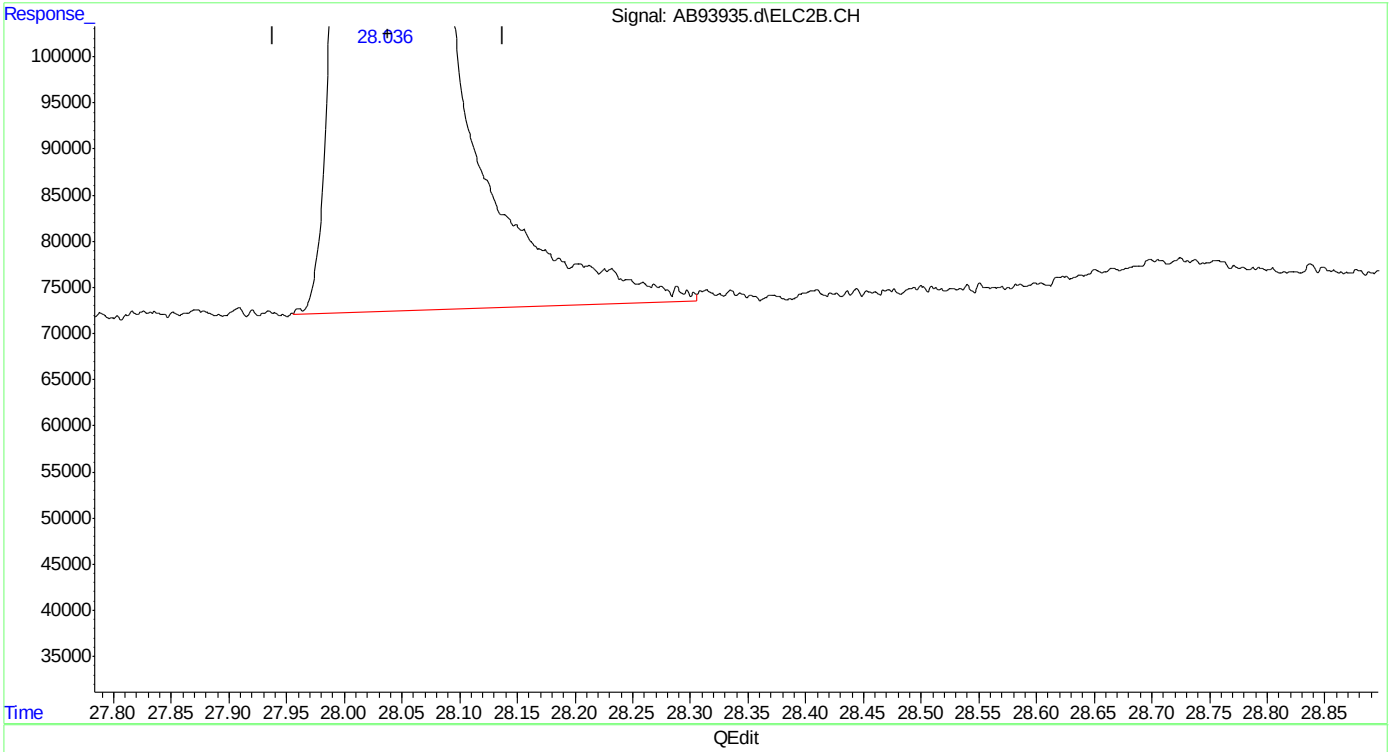
(+) = Expected Retention Time
ab160504vph.M Wed May 04 11:46:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160504\
Data File : AB93935.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04-May-16, 11:14:36
Operator : tonyf
Sample : cc5058-50
Misc : gc26207,gab5162,,,,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 04 11:44:51 2016
Quant Method : C:\msdchem\1\methods\ab160504vph.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 43.302 ppb m
response 31303605

(+) = Expected Retention Time
ab160504vph.M Wed May 04 11:46:09 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/DSP	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 MC45678

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			
pentane	331590120	167372218	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	average CF	std dev	%rsd
Total Concentration ppb	3000	1500	750	300	150	30	15	6	3	401509	53780	13.39
Calibration Response Factor	324998	344918	360786	375480	395374	429423	457473	448023	476608			
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	avg CF	std dev	%rsd
Total Concentration ppb	3000	1500	750	300	150	30	15	6	3	626504	48172	7.69
Calibration Response Factor	580621	589480	594027	579362	592770	653648	666473	690997	691152			

	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

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: GC 21 (AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/3/16 Analyst Signature: [illegible]

Standards Data

Lot #	Description	Conc
Vmaph AB	q236206 gab	5161

Standards Data

Lot #	Description	Conc
qv16374	cc/hsp 250ug/ml	5/28/16
qv16375	Sum ↓	↓

Column: mtx 502.2
Method: AB VPH1
GC Seq. File: AB160503.S
Method Files:
AB 160503 VPH cc 5058-5a

AS Seq. File: 1-4 2-2 3-4 5-6

Date of ICAL: 1-12-16 ICAL Verified: Seq. Verification: 6-8 [illegible]

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
AB 93421	Conceal 5a	N/A	q236206	Vmaph	1	W	1ml qv16374	N/A	N/A	N/A	
22	N/A ms				2		1ml qv16375				
23	hsp				3		1ml qv16374				
24	bsd				4		↓				
25	mc 45678-1	5			5		5ml			N2	
26	-2	4			6						
27	-2ms	4			6		+1ml qv16374				
28	-2msd	5			7		↓				
29	Conceal 5a	N/A			8		1ml qv16374			N/A	

5/3/16 [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.

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Data File Name	AB93921.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	15825461	C5 - C8 area	CF	CF		
rt7/10	18609348	56189935	374600	401509	**6.70**	
rt10/13	21755125					
rt20/25	25861328					
decane	25721073	C9-C12 area				
butylcyclohexane	28493810	80076211	533841	626504	**14.79**	

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

aef

Data File Name	AB93929.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	15739739	C5 - C8 area	CF	CF		
rt7/10	18699454	56280717	375205	401509	**6.55**	
rt10/13	21841523					
rt20/25	27185522					
decane	27290696	C9-C12 area				
butylcyclohexane	29854162	84330380	562203	626504	**10.26**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/4/16 [illegible]

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.6.2

7

ACCUTEST LABORATORIES

Instrument: GC 21 (AB)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/4/16 Analyst Signature: [illegible]

Standards Data

Lot #	Description	Conc
Vmaugh	qc 8260 qAb	5162
soil		
qv16325G	qc/bsp	
~~qv16083E~~	smix121 bspSpike	1000ug/ml
qv16165H	1,35tmb ↓	5000ug/ml

Standards Data

Lot #	Description	Conc
qv16374	cc/bsp 250ug/ml	5/25/16
qv16375	Sum ↓	↓
qv16347	Semi Sum 50ug/ml	5/12/16

Column: mtx 502-2
Method: AB VPH1
GC Seq. File: AB160504.S
Method Files:
AB160504 VPH CC5058-50
AS Seq. File: H2-2 3-4 5-5

Date of ICAL: 1-12-16 ICAL Verified: Seq. Verification: 6-6

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
Ab93930	Concal 50	N/A	qc	Vmaugh	1	W	1ml qv16374	N/A	N/A	N/A	
31	mb	↓	16g 16ml	↓	2	S	5ml of 1ml/5ml				
32	bsp		20g 20ml		3		5ml of 100ug/ml		(40g 5ml qv16325G 20ml + 10ml qv16165H)		
33	bsd	↓	↓ ↓		4						
34	mc45678-3	3	15.32g 16ml		5	↓					
35	Concal 50	N/A		↓	6	W	1ml qv16374				
36	mc45694-5	1	10g 10ml		7	S	5ml of 1ml/5ml				
37	-1	1	14.159g 11ml		8						slm Hi 4
38	-2	1	7.04g 11ml		9						slm Low
39	-3	1	3.873g 11ml		10						
40	-4	1	3.973g 11ml		11						
41	Concal 50				12		1ml qv16374				

* only one vial sent for analysis NO MS/MSD

5/4/16 [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.

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ACCUTEST

Methanol Prep Log

Vial #:	Sample ID:	Initial Tare Wt (g)	Total Wt (g)	Sample Wt (g)	Comments:
072715-3:20646	MC45676-1.6	32.87	36.610	3.74	10mL meoH V8015910
040615-3:53332	MC45678-3.3	40.560	55.880	15.320	15mL meoH vmaugh

Analyst: ae 4 Date: 5/4/16

Page 1 of 1

ACCUTEST

Methanol Prep Log

Vial #:	Sample ID:	Initial Tare Wt (g)	Total Wt (g)	Sample Wt (g)	Comments:
031714-3:12290	MC45694-1.1	37.210	51.369	14.159	10ml meoH 5ml HiAlt
031714-3:12366	MC45694-2.1	37.340	44.380	7.040	5m Low
031714-3:12317	MC45694-3.1	37.210	41.083	3.873	
031714-3:12328	MC45694-4.1	36.540	40.513	3.973	
031714-3:12066	MC45694-5.1	37.590	37.690	0.100	use ~~10g~~ ~~10ml~~ BLANK 10g 11ml 5/4/16 gg

Analyst: _____ Date: _____

Data File Name	AB93930.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	15280821	C5 - C8 area	CF	CF		
rt7/10	18280850	54746246	364975	401509	**9.10**	
rt10/13	21184575					
rt20/25	26261888					
decane	26370346	C9-C12 area				
butylcyclohexane	28934343	81566578	543777	626504	**13.20**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/4/16 cy

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.6.3

7

Data File Name	AB93935.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	15367700	C5 - C8 area	CF	CF		
rt7/10	18340468	55315217	368768	401509	**8.15**	
rt10/13	21607049					
rt20/25	26837519					
decane	27124558	C9-C12 area				
butylcyclohexane	29388031	83350108	555667	626504	**11.31**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/4/16 aaf

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	AB93941.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	15278416	C5 - C8 area	CF	CF		
rt7/10	18356233	55303315	368689	401509	**8.17**	
rt10/13	21668666					
rt20/25	26805534					
decane	26949948	C9-C12 area				
butylcyclohexane	29447947	83203428	554690	626504	**11.46**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/5/16 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

SGS ACCUTEST MC45678

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: MC45678
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
OP47333-MB	DE14025.D	1	05/06/16	TA	05/03/16	OP47333	GDE785

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

MC45678-1A, MC45678-2A

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	103%	40-140%
321-60-8	2-Fluorobiphenyl	100%	40-140%
3386-33-2	1-Chlorooctadecane	72%	40-140%
580-13-2	2-Bromonaphthalene	100%	40-140%

Method Blank Summary

Job Number: MC45678
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
OP47484-MB	DE14109.D	1	05/18/16	TA	05/15/16	OP47484	GDE792

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

MC45678-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	18000	14000	ug/kg	
	C9-C18 Aliphatics	ND	9000	7200	ug/kg	
	C19-C36 Aliphatics	ND	9000	7200	ug/kg	
	C11-C22 Aromatics	ND	18000	14000	ug/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	92%	40-140%
321-60-8	2-Fluorobiphenyl	92%	40-140%
580-13-2	2-Bromonaphthalene	95%	40-140%
3386-33-2	1-Chlorooctadecane	74%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45678
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
OP47333-BS	DE14023.D	1	05/06/16	TA	05/03/16	OP47333	GDE785
OP47333-BSD	DE14024.D	1	05/06/16	TA	05/03/16	OP47333	GDE785

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

MC45678-1A, MC45678-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	704	88	734	92	4	40-140/25
	C9-C18 Aliphatics	300	180	60	191	64	6	40-140/25
	C19-C36 Aliphatics	400	330	83	392	98	17	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	80%	86%	40-140%
321-60-8	2-Fluorobiphenyl	83%	88%	40-140%
3386-33-2	1-Chlorooctadecane	75%	89%	40-140%
580-13-2	2-Bromonaphthalene	74%	82%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47333-BS	2-Methylnaphthalene	28.7	0.12	0.4%	5.0
OP47333-BS	Naphthalene	26.3	0.11	0.4%	5.0
OP47333-BSD	2-Methylnaphthalene	29.0	0.10	0.3%	5.0
OP47333-BSD	Naphthalene	26.0	0.11	0.4%	5.0

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45678
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
OP47484-BS	DE14107.D	1	05/18/16	TA	05/15/16	OP47484	GDE792
OP47484-BSD	DE14108.D	1	05/18/16	TA	05/15/16	OP47484	GDE792

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

MC45678-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	67800	58300	86	55100	80	6	40-140/25
	C9-C18 Aliphatics	25400	16800	66	19900	77	17	40-140/25
	C19-C36 Aliphatics	33900	26200	77	29900	87	13	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	79%	73%	40-140%
321-60-8	2-Fluorobiphenyl	81%	71%	40-140%
580-13-2	2-Bromonaphthalene	77%	68%	40-140%
3386-33-2	1-Chlorooctadecane	65%	67%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47484-BS	2-Methylnaphthalene	2490	8.9	0.4%	5.0
OP47484-BS	Naphthalene	2440	9.4	0.4%	5.0
OP47484-BSD	2-Methylnaphthalene	2360	9.9	0.4%	5.0
OP47484-BSD	Naphthalene	2360	12.5	0.5%	5.0

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45678
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
OP47484-MS	DE14146.D	1	05/19/16	TA	05/15/16	OP47484	GDE792
OP47484-MSD	DE14147.D	1	05/19/16	TA	05/15/16	OP47484	GDE792
MC45678-3	DE14118.D	1	05/18/16	TA	05/15/16	OP47484	GDE792

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

MC45678-3

CAS No.	Compound	MC45678-3 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		94200	82300	87	93400	87600	94	6	40-140/25
	C9-C18 Aliphatics	ND		35300	25800	73	35000	25300	72	2	40-140/25
	C19-C36 Aliphatics	ND		47100	43200	92	46700	42300	91	2	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45678-3	Limits
84-15-1	o-Terphenyl	80%	86%	89%	40-140%
321-60-8	2-Fluorobiphenyl	78%	83%	87%	40-140%
580-13-2	2-Bromonaphthalene	75%	76%	80%	40-140%
3386-33-2	1-Chlorooctadecane	75%	90%	67%	40-140%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45678
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]
MC45678-1A	DE14026.D	81	89	67	91
MC45678-2A	DE14027.D	69	83	46	83
OP47333-BS	DE14023.D	80	83	75	74
OP47333-BSD	DE14024.D	86	88	89	82
OP47333-MB	DE14025.D	103	100	72	100

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: MC45678
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]
MC45678-3	DE14118.D	89	87	80	67
OP47484-BS	DE14107.D	79	81	77	65
OP47484-BSD	DE14108.D	73	71	68	67
OP47484-MB	DE14109.D	92	92	95	74
OP47484-MS	DE14146.D	80	78	75	75
OP47484-MSD	DE14147.D	86	83	76	90

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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE785-CC735	**Injection Date:**	05/06/16
Lab File ID:	DE14022.D	**Injection Time:**	08:47
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.97	6.69	11.23	7.43

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47333-BS	DE14023.D	05/06/16	09:29	9.97	6.70	11.23	7.43
OP47333-BSD	DE14024.D	05/06/16	09:56	9.97	6.70	11.23	7.43
OP47333-MB	DE14025.D	05/06/16	10:24	9.97	6.70	11.23	7.43
MC45678-1A	DE14026.D	05/06/16	10:52	9.97	6.70	11.23	7.43
MC45678-2A	DE14027.D	05/06/16	11:20	9.97	6.70	11.23	7.43

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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE792-CC735	**Injection Date:**	05/18/16
Lab File ID:	DE14104.D	**Injection Time:**	09:05
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
OP47474-BS	DE14105.D	05/18/16	09:41	9.87	6.61	7.33	11.22
OP47474-BSD	DE14106.D	05/18/16	10:09	9.87	6.61	7.33	11.23
OP47484-BS	DE14107.D	05/18/16	10:37	9.87	6.61	7.33	11.23
OP47484-BSD	DE14108.D	05/18/16	11:05	9.87	6.61	7.33	11.23
OP47484-MB	DE14109.D	05/18/16	11:33	9.87	6.61	7.33	11.23
OP47474-MB	DE14110.D	05/18/16	12:01	9.87	6.61	7.34	11.23
ZZZZZZ	DE14111.D	05/18/16	12:29	9.87	6.61	7.33	11.22
ZZZZZZ	DE14112.D	05/18/16	12:57	9.87	6.61	7.33	11.23
ZZZZZZ	DE14113.D	05/18/16	13:25	9.87	6.61	7.33	11.23
ZZZZZZ	DE14114.D	05/18/16	13:53	9.87	6.61	7.33	11.23

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

GC Surrogate Retention Time Summary

Job Number: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE792-CC735	**Injection Date:**	05/18/16
Lab File ID:	DE14115.D	**Injection Time:**	14:22
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
ZZZZZZ	DE14116.D	05/18/16	14:49	9.87	6.61	7.33	11.23
ZZZZZZ	DE14117.D	05/18/16	15:17	9.87	6.61	7.33	11.23
MC45678-3	DE14118.D	05/18/16	15:45	9.87	6.61	7.33	11.23
ZZZZZZ	DE14119.D	05/18/16	16:13	9.87	6.61	7.33	11.23
ZZZZZZ	DE14120.D	05/18/16	16:41	9.87	6.61	7.33	11.23
ZZZZZZ	DE14121.D	05/18/16	17:09	9.87	6.61	7.33	11.22
ZZZZZZ	DE14122.D	05/18/16	17:37	9.87	6.61	7.33	11.23
ZZZZZZ	DE14123.D	05/18/16	18:05	9.87	6.61	7.33	11.23
ZZZZZZ	DE14124.D	05/18/16	18:33	9.87	6.61	7.33	11.22
ZZZZZZ	DE14125.D	05/18/16	19:01	9.87	6.61	7.33	11.23

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

GC Surrogate Retention Time Summary

Job Number: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE792-CC735	**Injection Date:**	05/19/16
Lab File ID:	DE14137.D	**Injection Time:**	00:38
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
ZZZZZZ	DE14138.D	05/19/16	01:06	9.87	6.61	7.33	11.23
ZZZZZZ	DE14139.D	05/19/16	01:33	9.87	6.61	7.33	11.23
ZZZZZZ	DE14140.D	05/19/16	02:01	9.87	6.61	7.33	11.23
ZZZZZZ	DE14141.D	05/19/16	02:29	9.87	6.61	7.33	11.22
ZZZZZZ	DE14142.D	05/19/16	02:57	9.87	6.61	7.33	11.22
ZZZZZZ	DE14143.D	05/19/16	03:25	9.87	6.61	7.33	11.23
ZZZZZZ	DE14144.D	05/19/16	03:53	9.87	6.61	7.33	11.23
ZZZZZZ	DE14145.D	05/19/16	04:21	9.87	6.61	7.33	11.22
OP47484-MS	DE14146.D	05/19/16	04:48	9.87	6.61	7.33	11.22
OP47484-MSD	DE14147.D	05/19/16	05:16	9.87	6.61	7.33	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: MC45678
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: MC45678
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: MC45678
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: MC45678
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: MC45678 **Sample:** GDE785-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14022.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14022.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  6 May 2016   8:47 am
Operator  : thomasa
Sample    : cc735-50, gde785
Misc      : op47292,gde785,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	122.962 E3	-19.2	115	0.00
3		2-methylnaphthalene	102.482	120.062 E3	-17.2	114	0.00
4	s	2-fluorobiphenyl	92.230	108.970 E3	-18.2	115	0.00
5		acenaphthylene	100.602	118.348 E3	-17.6	114	0.00
6	s	2-bromonaphthalene	62.755	73.030 E3	-16.4	112	0.00
7		acenaphthene	103.376	123.406 E3	-19.4	115	0.00
8		fluorene	101.567	119.612 E3	-17.8	114	0.00
9		phenanthrene	101.763	118.048 E3	-16.0	113	0.00
10		anthracene	97.008	113.595 E3	-17.1	114	0.00
11	s	o-terphenyl	102.427	118.991 E3	-16.2	113	0.00
12		fluoranthene	99.941	115.131 E3	-15.2	113	0.00
13		pyrene	101.462	117.855 E3	-16.2	115	0.00
14		benzo(a)anthracene	96.675	109.860 E3	-13.6	112	0.00
15		chrysene	97.341	111.258 E3	-14.3	112	0.00
16		benzo(B)fluoranthene	99.002	111.195 E3	-12.3	112	0.00
17		benzo(k)fluoranthene	94.503	110.653 E3	-17.1	112	0.00
18		benzo(a)pyrene	92.435	105.623 E3	-14.3	112	0.00
19		indeno(1,2,3-cd)pyrene	94.658	106.680 E3	-12.7	110	0.00
20		dibenzo(ah)anthracene	91.399	104.669 E3	-14.5	112	0.00
21		benzo(ghi)perylene	92.123	104.337 E3	-13.3	111	0.00
Signal #2							
25	h	c-9	73.872	80.638 E3	-9.2	0#	0.00
26	h	c-10	73.872	81.193 E3	-9.9	0#	0.00
27		naphthalene #2	79.872	86.627 E3	-8.5	114	0.00
28		c-12	73.872	80.053 E3	-8.4	0#	0.00
29		2-methylnaphthalene #2	80.566	85.963 E3	-6.7	113	0.00
30		c-14	73.872	79.420 E3	-7.5	0#	0.00
31		c-16	73.872	78.853 E3	-6.7	0#	0.00

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE785-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14022.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	79.293	E3	-7.3	0#	0.00
33		c-19	66.806	78.984	E3	-18.2	0#	0.00
34		c-20	66.806	77.342	E3	-15.8	0#	0.00
35	s	1-chlorooctadecane	56.575	62.507	E3	-10.5	117	0.00
36		c-22	66.806	77.341	E3	-15.8	0#	0.00
37		c-24	66.806	72.505	E3	-8.5	0#	0.00
38		c-26	66.806	77.454	E3	-15.9	0#	0.00
39		c-28	66.806	74.892	E3	-12.1	0#	0.00
40	h	c-30	66.806	75.024	E3	-12.3	0#	0.00
41	h	c-36	66.806	62.130	E3	7.0	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

EPH160506W.M Fri May 06 12:28:39 2016

8.6.3

8

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE785-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14028.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  6 May 2016  11:48 am
Operator  : thomasa
Sample    : cc735-50, gde785
Misc      : op47292,gde785,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	119.073 E3	-15.4	111	0.00
3		2-methylnaphthalene	102.482	116.217 E3	-13.4	110	0.00
4	s	2-fluorobiphenyl	92.230	105.752 E3	-14.7	111	0.00
5		acenaphthylene	100.602	114.749 E3	-14.1	111	0.00
6	s	2-bromonaphthalene	62.755	70.829 E3	-12.9	109	0.00
7		acenaphthene	103.376	120.193 E3	-16.3	112	0.00
8		fluorene	101.567	116.058 E3	-14.3	111	0.00
9		phenanthrene	101.763	115.032 E3	-13.0	110	0.00
10		anthracene	97.008	110.630 E3	-14.0	111	0.00
11	s	o-terphenyl	102.427	115.962 E3	-13.2	110	0.00
12		fluoranthene	99.941	111.675 E3	-11.7	110	0.00
13		pyrene	101.462	114.275 E3	-12.6	112	0.00
14		benzo(a)anthracene	96.675	105.899 E3	-9.5	108	0.00
15		chrysene	97.341	107.626 E3	-10.6	109	0.00
16		benzo(B)fluoranthene	99.002	117.945 E3	-19.1	118	0.00
17		benzo(k)fluoranthene	94.503	95.952 E3	-1.5	97	0.00
18		benzo(a)pyrene	92.435	101.899 E3	-10.2	108	0.00
19		indeno(1,2,3-cd)pyrene	94.658	103.601 E3	-9.4	107	0.00
20		dibenzo(ah)anthracene	91.399	100.222 E3	-9.7	107	0.00
21		benzo(ghi)perylene	92.123	100.217 E3	-8.8	106	0.00

Signal #2

25	h	c-9	73.872	85.426 E3	-15.6	0#	0.00
26	h	c-10	73.872	86.199 E3	-16.7	0#	0.00
27		naphthalene #2	79.872	91.809 E3	-14.9	121	0.00
28		c-12	73.872	85.103 E3	-15.2	0#	0.00
29		2-methylnaphthalene #2	80.566	91.294 E3	-13.3	120	0.00
30		c-14	73.872	83.972 E3	-13.7	0#	0.00
31		c-16	73.872	82.402 E3	-11.5	0#	0.00

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE785-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14028.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	82.450	E3	-11.6	0#	0.00
33		c-19	66.806	82.008	E3	-22.8	0#	0.00
34		c-20	66.806	80.567	E3	-20.6	0#	0.00
35	s	1-chlorooctadecane	56.575	65.256	E3	-15.3	122	0.00
36		c-22	66.806	80.131	E3	-19.9	0#	0.00
37		c-24	66.806	75.018	E3	-12.3	0#	0.00
38		c-26	66.806	79.741	E3	-19.4	0#	0.00
39		c-28	66.806	76.940	E3	-15.2	0#	0.00
40	h	c-30	66.806	76.605	E3	-14.7	0#	0.00
41	h	c-36	66.806	63.330	E3	5.2	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#	-15.67#
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

EPH160506W.M Fri May 06 12:28:29 2016

8.6.4

8

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14104.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 18 May 2016   9:05 am
Operator  : thomasa
Sample    : cc735-50,gde792
Misc      : op47424,gde792,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 10:24:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	113.206 E3	-9.8	106	0.00
3		2-methylnaphthalene	102.482	110.559 E3	-7.9	105	0.00
4	s	2-fluorobiphenyl	92.230	100.366 E3	-8.8	106	0.00
5		acenaphthylene	100.602	110.450 E3	-9.8	106	0.00
6	s	2-bromonaphthalene	62.755	67.484 E3	-7.5	104	0.00
7		acenaphthene	103.376	114.522 E3	-10.8	107	0.00
8		fluorene	101.567	110.882 E3	-9.2	106	0.00
9		phenanthrene	101.763	110.200 E3	-8.3	105	0.00
10		anthracene	97.008	105.706 E3	-9.0	106	0.00
11	s	o-terphenyl	102.427	110.512 E3	-7.9	105	0.00
12		fluoranthene	99.941	107.810 E3	-7.9	106	0.00
13		pyrene	101.462	110.466 E3	-8.9	108	0.00
14		benzo(a)anthracene	96.675	103.155 E3	-6.7	106	0.00
15		chrysene	97.341	104.199 E3	-7.0	105	0.00
16		benzo(B)fluoranthene	99.002	108.798 E3	-9.9	109	0.00
17		benzo(k)fluoranthene	94.503	98.621 E3	-4.4	100	0.00
18		benzo(a)pyrene	92.435	98.485 E3	-6.5	104	0.00
19		indeno(1,2,3-cd)pyrene	94.658	99.853 E3	-5.5	103	0.00
20		dibenzo(ah)anthracene	91.399	96.909 E3	-6.0	103	0.00
21		benzo(ghi)perylene	92.123	97.644 E3	-6.0	104	0.00
Signal #2							
25	h	c-9	73.872	85.191 E3	-15.3	0#	0.00
26	h	c-10	73.872	86.053 E3	-16.5	0#	0.00
27		naphthalene #2	79.872	92.011 E3	-15.2	121	0.00
28		c-12	73.872	85.627 E3	-15.9	0#	0.00
29		2-methylnaphthalene #2	80.566	92.036 E3	-14.2	121	0.00
30		c-14	73.872	85.468 E3	-15.7	0#	0.00
31		c-16	73.872	85.241 E3	-15.4	0#	0.00

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14104.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	85.726	E3	-16.0	0#	0.00
33		c-19	66.806	85.142	E3	-27.4#	0#	0.00
34		c-20	66.806	83.533	E3	-25.0#	0#	0.00
35	s	1-chlorooctadecane	56.575	67.489	E3	-19.3	126#	0.00
36		c-22	66.806	83.086	E3	-24.4	0#	0.00
37		c-24	66.806	77.675	E3	-16.3	0#	0.00
38		c-26	66.806	82.540	E3	-23.6	0#	0.00
39		c-28	66.806	79.518	E3	-19.0	0#	0.00
40	h	c-30	66.806	79.293	E3	-18.7	0#	0.00
41	h	c-36	66.806	68.646	E3	-2.8	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

EPH160518W.M Wed May 18 14:52:44 2016

8.6.5

8

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14115.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14115.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 18 May 2016   2:22 pm
Operator  : thomasa
Sample    : cc735-50,gde792
Misc      : op47424,gde792,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 14:50:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	116.848 E3	-13.3	109	0.00
3		2-methylnaphthalene	102.482	114.251 E3	-11.5	108	0.00
4	s	2-fluorobiphenyl	92.230	103.893 E3	-12.6	109	0.00
5		acenaphthylene	100.602	114.207 E3	-13.5	110	0.00
6	s	2-bromonaphthalene	62.755	69.833 E3	-11.3	107	0.00
7		acenaphthene	103.376	118.458 E3	-14.6	111	0.00
8		fluorene	101.567	114.645 E3	-12.9	109	0.00
9		phenanthrene	101.763	113.681 E3	-11.7	109	0.00
10		anthracene	97.008	108.763 E3	-12.1	109	0.00
11	s	o-terphenyl	102.427	113.767 E3	-11.1	108	0.00
12		fluoranthene	99.941	110.702 E3	-10.8	109	0.00
13		pyrene	101.462	113.386 E3	-11.8	111	0.00
14		benzo(a)anthracene	96.675	105.377 E3	-9.0	108	0.00
15		chrysene	97.341	106.768 E3	-9.7	108	0.00
16		benzo(B)fluoranthene	99.002	105.985 E3	-7.1	106	0.00
17		benzo(k)fluoranthene	94.503	106.499 E3	-12.7	108	0.00
18		benzo(a)pyrene	92.435	101.101 E3	-9.4	107	0.00
19		indeno(1,2,3-cd)pyrene	94.658	102.668 E3	-8.5	106	0.00
20		dibenzo(ah)anthracene	91.399	100.667 E3	-10.1	107	0.00
21		benzo(ghi)perylene	92.123	100.849 E3	-9.5	107	0.00
Signal #2							
25	h	c-9	73.872	80.015 E3	-8.3	0#	0.00
26	h	c-10	73.872	80.773 E3	-9.3	0#	0.00
27		naphthalene #2	79.872	86.043 E3	-7.7	113	0.00
28		c-12	73.872	80.033 E3	-8.3	0#	0.00
29		2-methylnaphthalene #2	80.566	85.785 E3	-6.5	113	0.00
30		c-14	73.872	79.350 E3	-7.4	0#	0.00
31		c-16	73.872	78.460 E3	-6.2	0#	0.00

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14115.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	78.213	E3	-5.9	0#	0.00
33		c-19	66.806	77.459	E3	-15.9	0#	0.00
34		c-20	66.806	75.863	E3	-13.6	0#	0.00
35	s	1-chlorooctadecane	56.575	61.203	E3	-8.2	114	0.00
36		c-22	66.806	74.984	E3	-12.2	0#	0.00
37		c-24	66.806	69.660	E3	-4.3	0#	0.00
38		c-26	66.806	73.603	E3	-10.2	0#	0.00
39		c-28	66.806	70.661	E3	-5.8	0#	0.00
40	h	c-30	66.806	70.249	E3	-5.2	0#	0.00
41	h	c-36	66.806	62.492	E3	6.5	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-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

EPH160518W.M Wed May 18 14:51:05 2016

8.6.6

8

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14126.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 18 May 2016   7:30 pm
Operator  : thomasa
Sample    : cc735-50,gde792
Misc      : op47424,gde792,11.00,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:08:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	86.022 E3	16.6	80	0.00
3		2-methylnaphthalene	102.482	86.402 E3	15.7	82	0.00
4	s	2-fluorobiphenyl	92.230	79.851 E3	13.4	84	0.00
5		acenaphthylene	100.602	89.318 E3	11.2	86	0.00
6	s	2-bromonaphthalene	62.755	55.362 E3	11.8	85	0.00
7		acenaphthene	103.376	94.257 E3	8.8	88	0.00
8		fluorene	101.567	93.777 E3	7.7	89	0.00
9		phenanthrene	101.763	96.904 E3	4.8	93	0.00
10		anthracene	97.008	94.071 E3	3.0	95	0.00
11	s	o-terphenyl	102.427	98.659 E3	3.7	94	0.00
12		fluoranthene	99.941	100.792 E3	-0.9	99	0.00
13		pyrene	101.462	103.983 E3	-2.5	101	0.00
14		benzo(a)anthracene	96.675	102.065 E3	-5.6	105	0.00
15		chrysene	97.341	103.610 E3	-6.4	105	0.00
16		benzo(B)fluoranthene	99.002	108.393 E3	-9.5	109	0.00
17		benzo(k)fluoranthene	94.503	105.158 E3	-11.3	107	0.00
18		benzo(a)pyrene	92.435	102.216 E3	-10.6	108	0.00
19		indeno(1,2,3-cd)pyrene	94.658	106.509 E3	-12.5	110	0.00
20		dibenzo(ah)anthracene	91.399	103.234 E3	-12.9	110	0.00
21		benzo(ghi)perylene	92.123	104.133 E3	-13.0	111	0.00

Signal #2

25	h	c-9	73.872	77.991 E3	-5.6	0#	0.00
26	h	c-10	73.872	78.664 E3	-6.5	0#	0.00
27		naphthalene #2	79.872	83.968 E3	-5.1	110	0.00
28		c-12	73.872	78.134 E3	-5.8	0#	0.00
29		2-methylnaphthalene #2	80.566	83.927 E3	-4.2	110	0.00
30		c-14	73.872	77.835 E3	-5.4	0#	0.00
31		c-16	73.872	77.402 E3	-4.8	0#	0.00

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14126.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	77.750	E3	-5.2	0#	0.00
33		c-19	66.806	77.272	E3	-15.7	0#	0.00
34		c-20	66.806	75.941	E3	-13.7	0#	0.00
35	s	1-chlorooctadecane	56.575	61.460	E3	-8.6	115	0.00
36		c-22	66.806	75.630	E3	-13.2	0#	0.00
37		c-24	66.806	70.863	E3	-6.1	0#	0.00
38		c-26	66.806	75.481	E3	-13.0	0#	0.00
39		c-28	66.806	72.932	E3	-9.2	0#	0.00
40	h	c-30	66.806	72.833	E3	-9.0	0#	0.00
41	h	c-36	66.806	66.041	E3	1.1	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

EPH160518W.M Thu May 19 09:08:00 2016

8.6.7

8

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14137.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 19 May 2016  12:38 am
Operator  : thomasa
Sample    : cc735-50,gde792
Misc      : op47424,gde792,11.00,,,2,,s
ALS Vial  : 144   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:10:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	118.111 E3	-14.5	110	0.00
3		2-methylnaphthalene	102.482	115.498 E3	-12.7	109	0.00
4	s	2-fluorobiphenyl	92.230	105.280 E3	-14.1	111	0.00
5		acenaphthylene	100.602	115.824 E3	-15.1	112	0.00
6	s	2-bromonaphthalene	62.755	71.117 E3	-13.3	109	0.00
7		acenaphthene	103.376	120.879 E3	-16.9	113	0.00
8		fluorene	101.567	117.512 E3	-15.7	112	0.00
9		phenanthrene	101.763	117.208 E3	-15.2	112	0.00
10		anthracene	97.008	112.325 E3	-15.8	113	0.00
11	s	o-terphenyl	102.427	117.502 E3	-14.7	112	0.00
12		fluoranthene	99.941	114.712 E3	-14.8	113	0.00
13		pyrene	101.462	117.498 E3	-15.8	115	0.00
14		benzo(a)anthracene	96.675	109.178 E3	-12.9	112	0.00
15		chrysene	97.341	110.502 E3	-13.5	112	0.00
16		benzo(B)fluoranthene	99.002	116.276 E3	-17.4	117	0.00
17		benzo(k)fluoranthene	94.503	104.226 E3	-10.3	106	0.00
18		benzo(a)pyrene	92.435	104.533 E3	-13.1	111	0.00
19		indeno(1,2,3-cd)pyrene	94.658	107.612 E3	-13.7	111	0.00
20		dibenzo(ah)anthracene	91.399	103.063 E3	-12.8	110	0.00
21		benzo(ghi)perylene	92.123	104.274 E3	-13.2	111	0.00

Signal #2

25	h	c-9	73.872	81.134 E3	-9.8	0#	0.00
26	h	c-10	73.872	81.568 E3	-10.4	0#	0.00
27		naphthalene #2	79.872	86.950 E3	-8.9	114	0.00
28		c-12	73.872	80.694 E3	-9.2	0#	0.00
29		2-methylnaphthalene #2	80.566	86.596 E3	-7.5	114	0.00
30		c-14	73.872	80.040 E3	-8.3	0#	0.00
31		c-16	73.872	79.269 E3	-7.3	0#	0.00

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14137.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	79.227	E3	-7.2	0#	0.00
33		c-19	66.806	78.601	E3	-17.7	0#	0.00
34		c-20	66.806	77.094	E3	-15.4	0#	0.00
35	s	1-chlorooctadecane	56.575	62.375	E3	-10.3	116	0.00
36		c-22	66.806	76.592	E3	-14.6	0#	0.00
37		c-24	66.806	71.505	E3	-7.0	0#	0.00
38		c-26	66.806	76.051	E3	-13.8	0#	0.00
39		c-28	66.806	73.331	E3	-9.8	0#	0.00
40	h	c-30	66.806	73.016	E3	-9.3	0#	0.00
41	h	c-36	66.806	65.711	E3	1.6	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.67#
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

EPH160518W.M Thu May 19 10:02:28 2016

8.6.8

8

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14148.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 19 May 2016   5:44 am
Operator  : thomasa
Sample    : cc735-50,gde792
Misc      : op47424,gde792,11.00,,,2,,s
ALS Vial  : 144   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:12:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	111.147 E3	-7.8	104	0.00
3		2-methylnaphthalene	102.482	108.674 E3	-6.0	103	0.00
4	s	2-fluorobiphenyl	92.230	99.006 E3	-7.3	104	0.00
5		acenaphthylene	100.602	108.894 E3	-8.2	105	0.00
6	s	2-bromonaphthalene	62.755	66.349 E3	-5.7	102	0.00
7		acenaphthene	103.376	112.471 E3	-8.8	105	0.00
8		fluorene	101.567	110.576 E3	-8.9	105	0.00
9		phenanthrene	101.763	110.010 E3	-8.1	105	0.00
10		anthracene	97.008	105.700 E3	-9.0	106	0.00
11	s	o-terphenyl	102.427	110.195 E3	-7.6	105	0.00
12		fluoranthene	99.941	107.992 E3	-8.1	106	0.00
13		pyrene	101.462	110.642 E3	-9.0	108	0.00
14		benzo(a)anthracene	96.675	103.367 E3	-6.9	106	0.00
15		chrysene	97.341	105.303 E3	-8.2	106	0.00
16		benzo(B)fluoranthene	99.002	108.215 E3	-9.3	109	0.00
17		benzo(k)fluoranthene	94.503	103.457 E3	-9.5	105	0.00
18		benzo(a)pyrene	92.435	100.845 E3	-9.1	107	0.00
19		indeno(1,2,3-cd)pyrene	94.658	104.951 E3	-10.9	108	0.00
20		dibenzo(ah)anthracene	91.399	100.674 E3	-10.1	107	0.00
21		benzo(ghi)perylene	92.123	101.963 E3	-10.7	108	0.00
Signal #2							
25	h	c-9	73.872	80.151 E3	-8.5	0#	0.00
26	h	c-10	73.872	80.774 E3	-9.3	0#	0.00
27		naphthalene #2	79.872	86.123 E3	-7.8	113	0.00
28		c-12	73.872	79.995 E3	-8.3	0#	0.00
29		2-methylnaphthalene #2	80.566	85.916 E3	-6.6	113	0.00
30		c-14	73.872	79.542 E3	-7.7	0#	0.00
31		c-16	73.872	78.820 E3	-6.7	0#	0.00

Continuing Calibration Summary

Job Number: MC45678 **Sample:** GDE792-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14148.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	79.009	E3	-7.0	0#	0.00
33		c-19	66.806	78.470	E3	-17.5	0#	0.00
34		c-20	66.806	77.060	E3	-15.3	0#	0.00
35	s	1-chlorooctadecane	56.575	62.275	E3	-10.1	116	0.00
36		c-22	66.806	76.754	E3	-14.9	0#	0.00
37		c-24	66.806	71.699	E3	-7.3	0#	0.00
38		c-26	66.806	76.261	E3	-14.2	0#	0.00
39		c-28	66.806	73.649	E3	-10.2	0#	0.00
40	h	c-30	66.806	73.549	E3	-10.1	0#	0.00
41	h	c-36	66.806	66.770	E3	0.1	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

EPH160518W.M Thu May 19 11:13:15 2016

8.6.9

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14026.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 10:52 am
Operator : thomasa
Sample : mc45678-1a,op47333
Misc : op47333,gde785,860,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:25:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	6.697	1635030	17.728 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	88.64%#
6) s 2-bromonaphthalene	7.430	1143304	18.219 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	91.09%#
11) s o-terphenyl	9.967	1659647	16.203 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	81.01%#
35) s 1-chlorooctadecane	11.225	753801	13.324 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	66.62%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2651820	27.003 µg/mlm
25) h c-9	2.648	845367	11.444 µg/mlm
41) h c-36	17.008	812284	12.159 µg/mlm

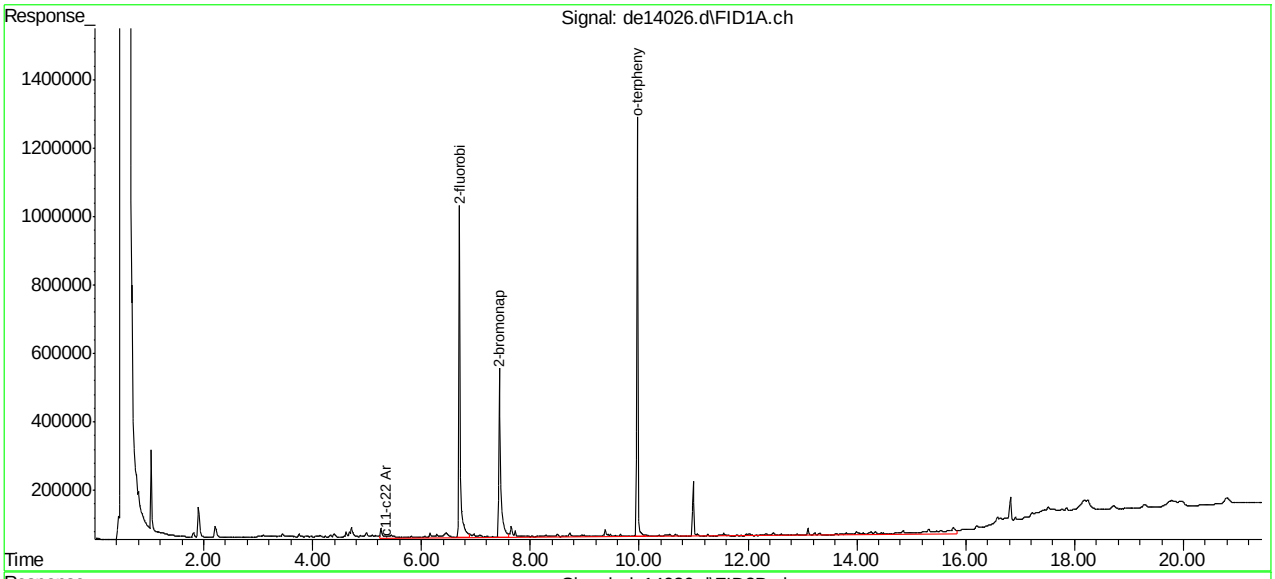
(f)=RT Delta > 1/2 Window (m)=manual int.

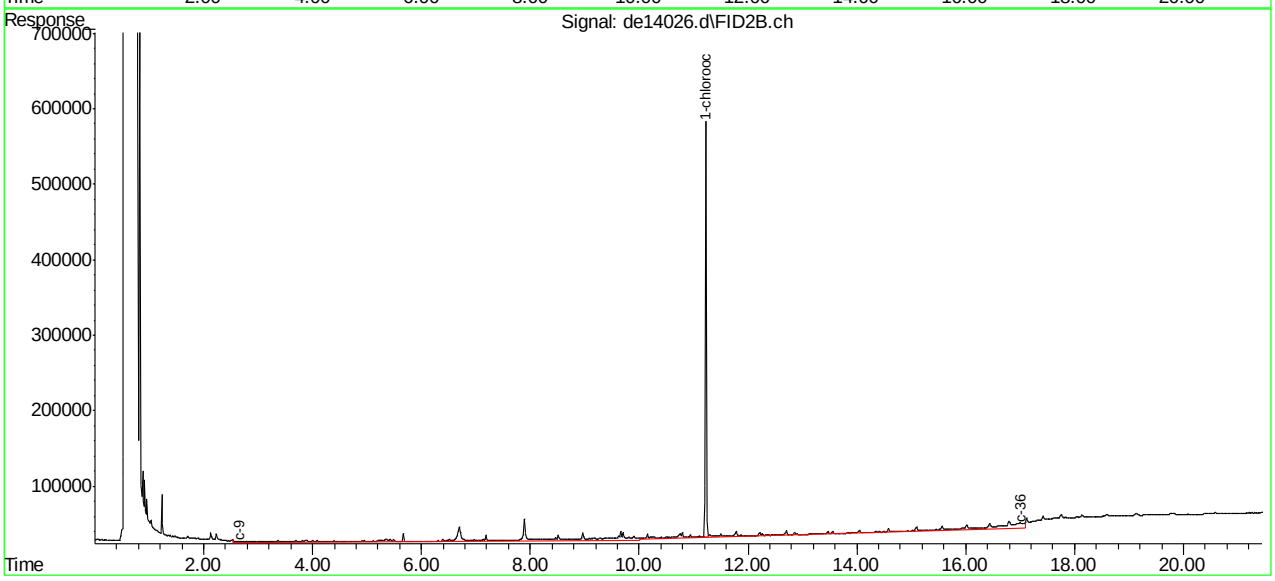
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14026.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 10:52 am
Operator : thomasa
Sample : mc45678-1a,op47333
Misc : op47333,gde785,860,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

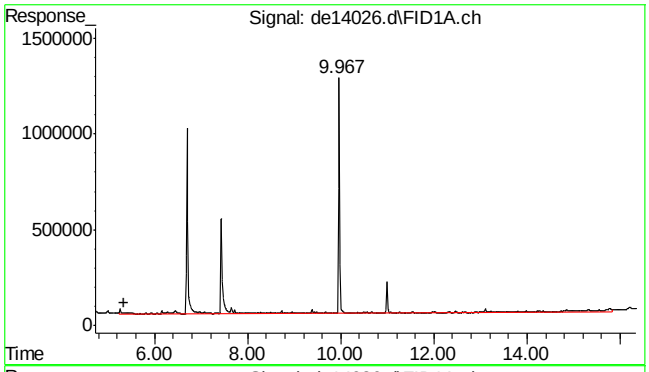
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:25:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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



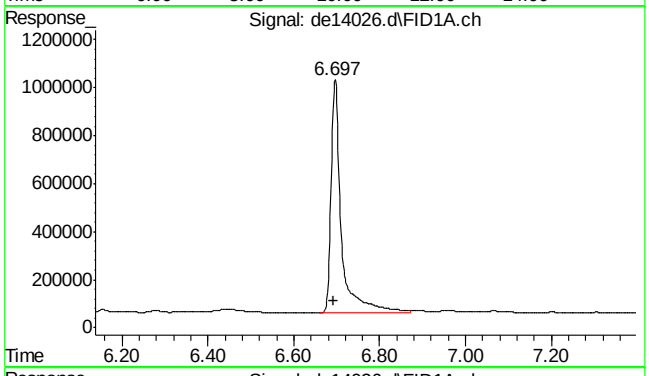


EPH160506W.M Fri May 06 12:29:55 2016 Page: 2



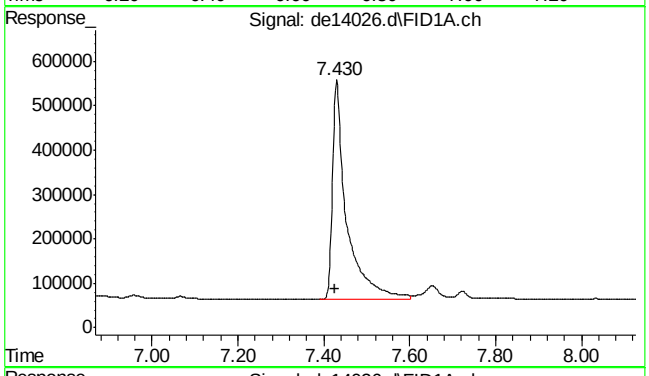
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2651820
Conc: 27.00 µg/ml m



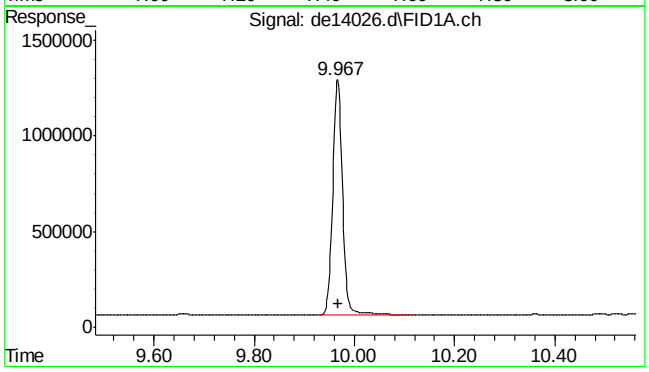
#4 2-fluorobiphenyl

R.T.: 6.697 min
Delta R.T.: 0.003 min
Response: 1635030
Conc: 17.73 µg/ml



#6 2-bromonaphthalene

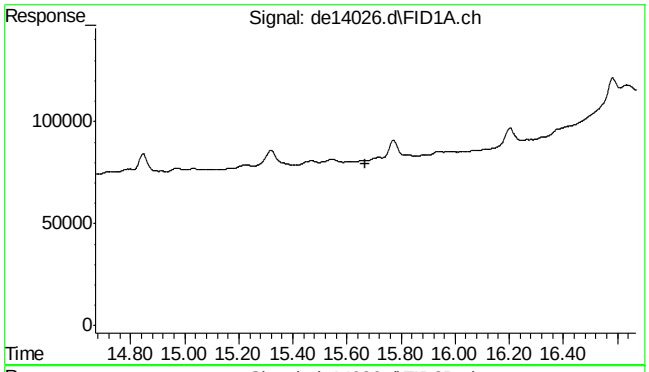
R.T.: 7.430 min
Delta R.T.: 0.003 min
Response: 1143304
Conc: 18.22 µg/ml



#11 o-terphenyl

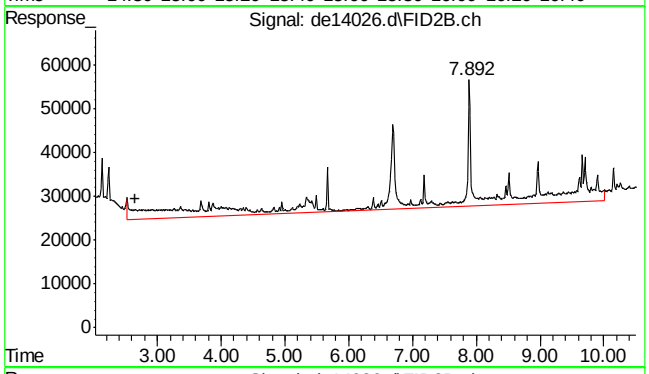
R.T.: 9.967 min
Delta R.T.: -0.002 min
Response: 1659647
Conc: 16.20 µg/ml

SGS ACCUTEST MC45678



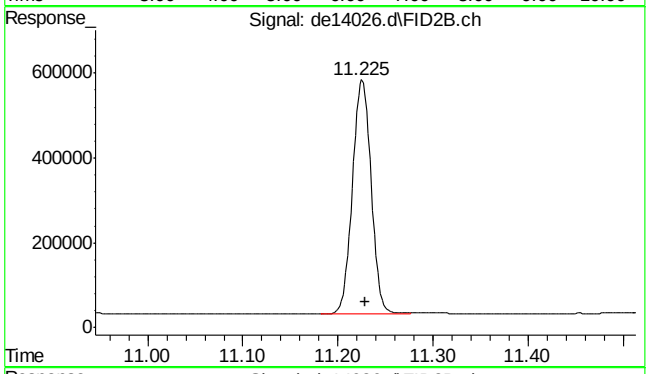
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



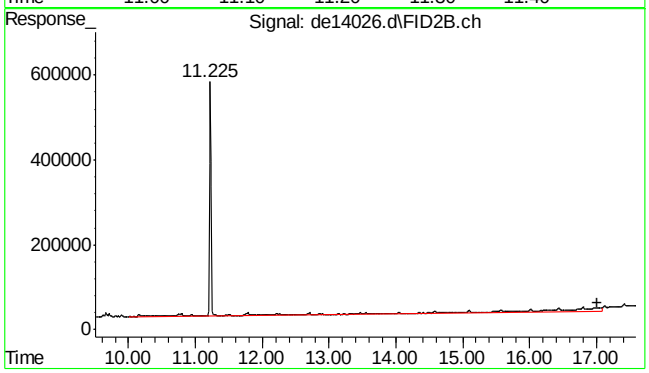
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 845367
Conc: 11.44 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 753801
Conc: 13.32 µg/ml



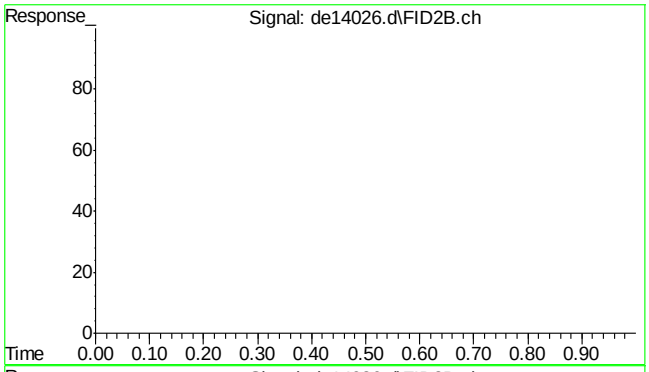
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 812284
Conc: 12.16 µg/ml m

9.1.1

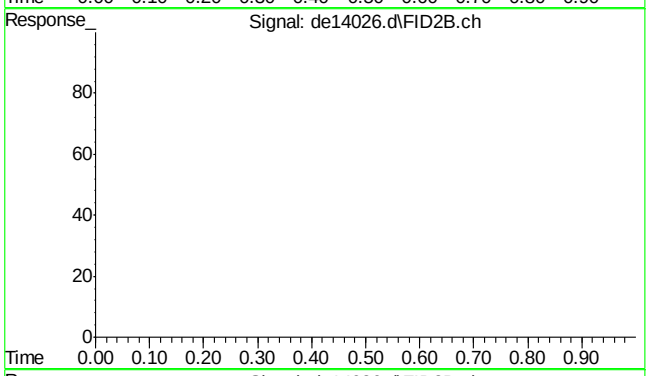
9

SGS ACCUTEST MC45678



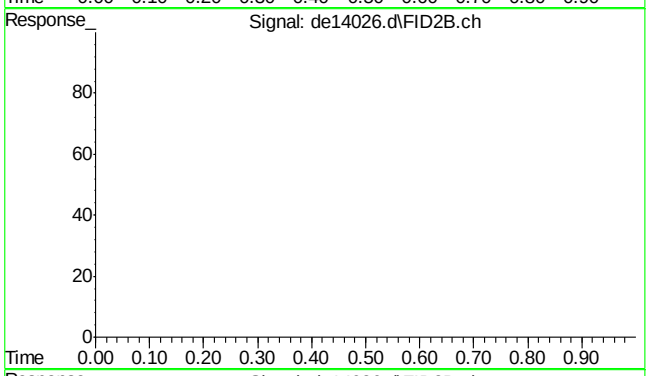
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



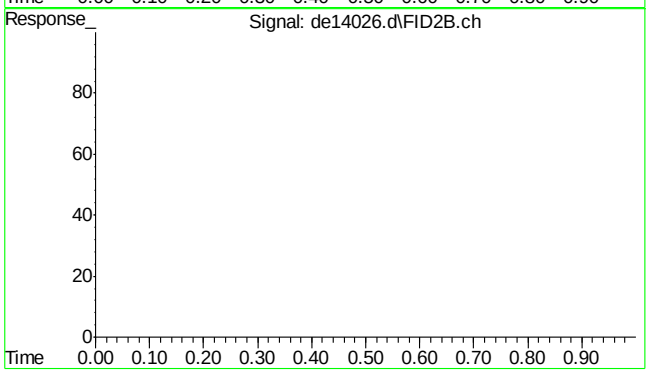
#43 bht

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\DE160506EPH\
Data File : de14027.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:20 am
Operator : thomasa
Sample : mc45678-2a,op47333
Misc : op47333,gde785,880,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:28:20 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	6.697	1527452	16.561 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 82.80%#		
6) s 2-bromonaphthalene	7.430	1046001	16.668 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 83.34%#		
11) s o-terphenyl	9.967	1403483	13.702 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 68.51%#		
35) s 1-chlorooctadecane	11.225	520920	9.208 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 46.04%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3305279	33.657 µg/mlm
25) h c-9	2.648	912759	12.356 µg/mlm
41) h c-36	17.008	988971	14.804 µg/mlm

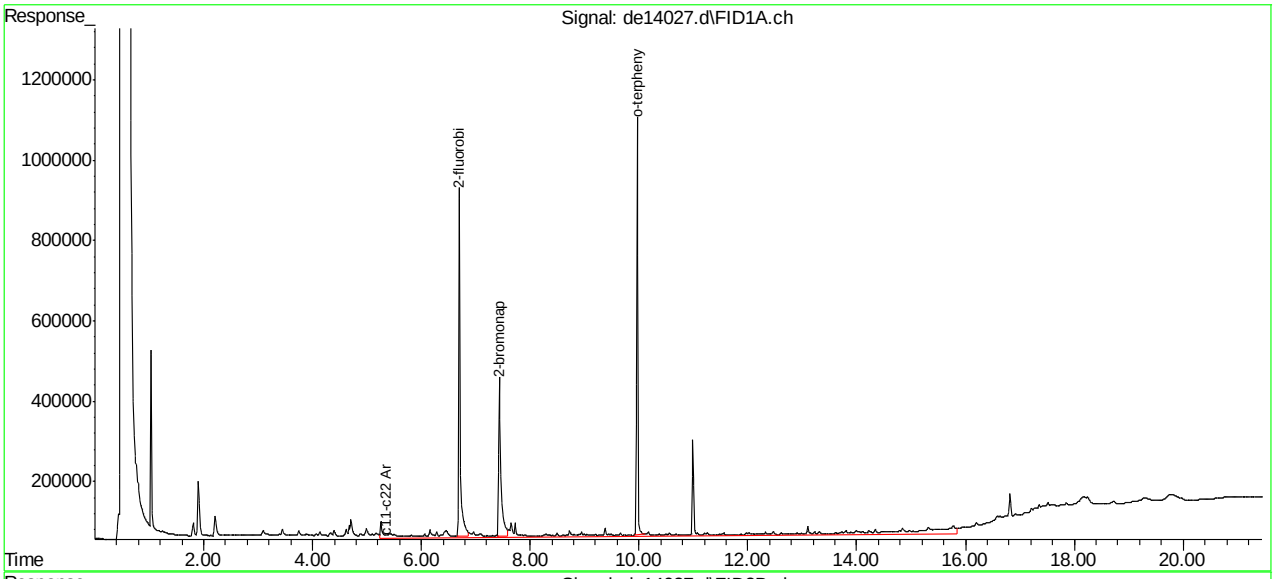
(f)=RT Delta > 1/2 Window (m)=manual int.

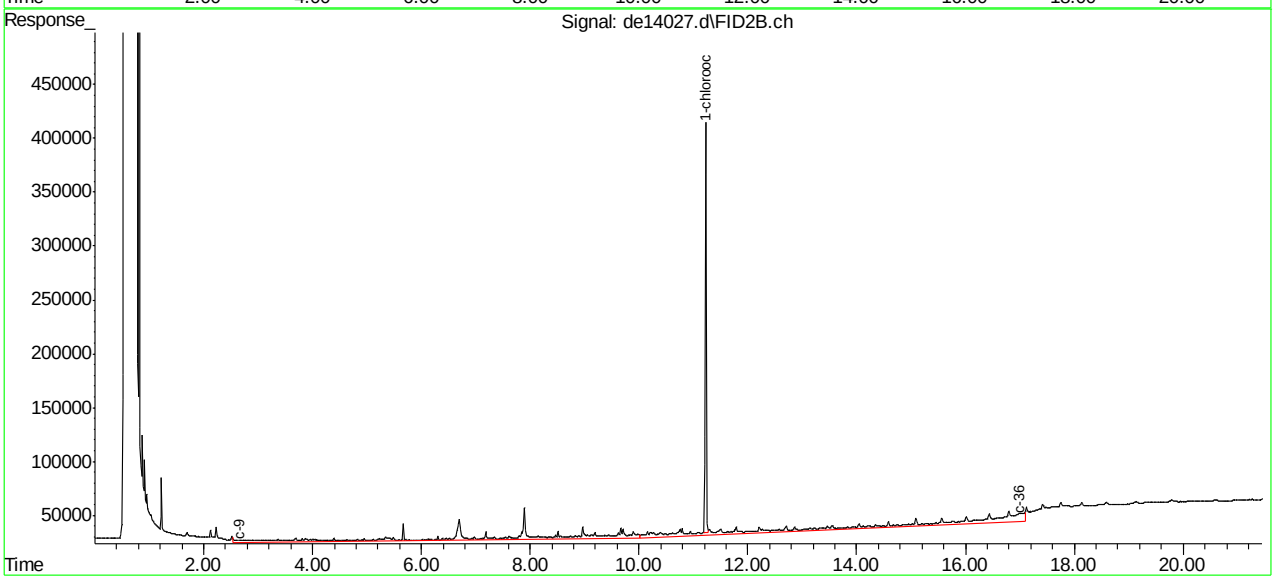
Quantitation Report (QT Reviewed)

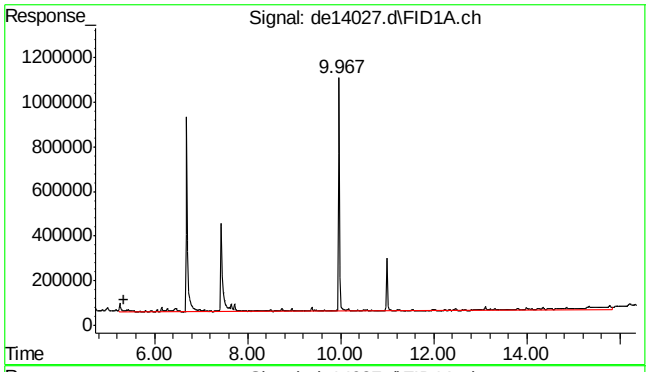
Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14027.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:20 am
Operator : thomasa
Sample : mc45678-2a,op47333
Misc : op47333,gde785,880,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:28:20 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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

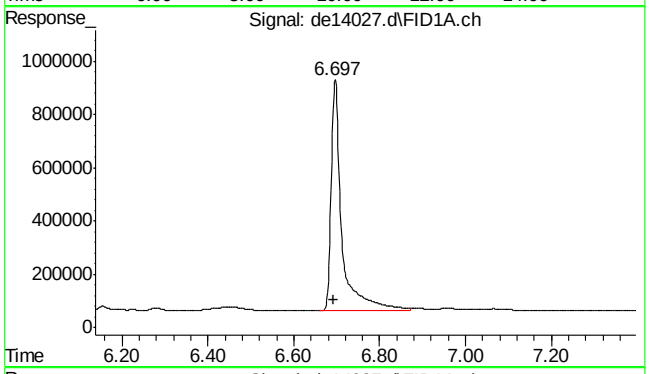






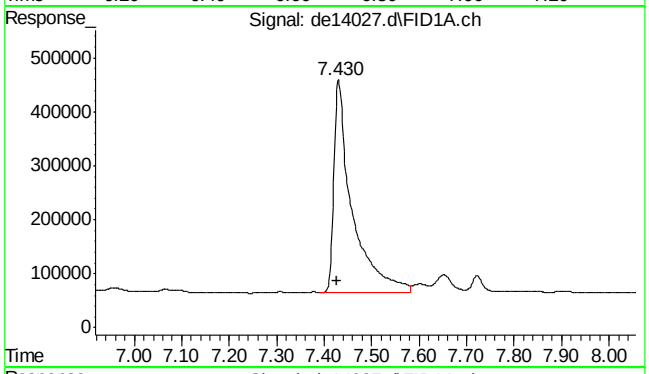
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3305279
Conc: 33.66 µg/ml m



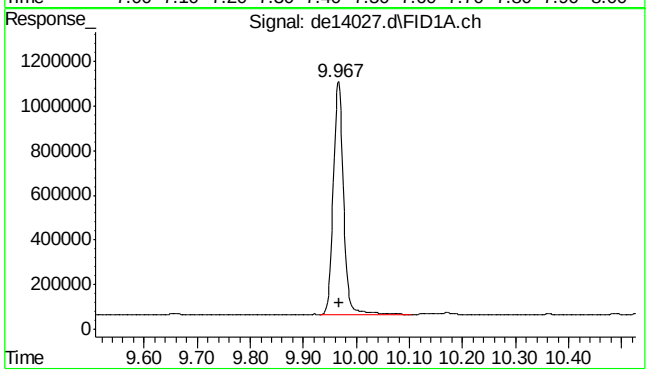
#4 2-fluorobiphenyl

R.T.: 6.697 min
Delta R.T.: 0.003 min
Response: 1527452
Conc: 16.56 µg/ml



#6 2-bromonaphthalene

R.T.: 7.430 min
Delta R.T.: 0.003 min
Response: 1046001
Conc: 16.67 µg/ml



#11 o-terphenyl

R.T.: 9.967 min
Delta R.T.: -0.002 min
Response: 1403483
Conc: 13.70 µg/ml

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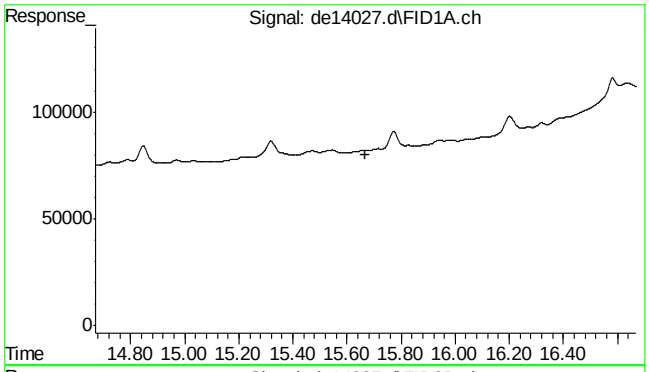
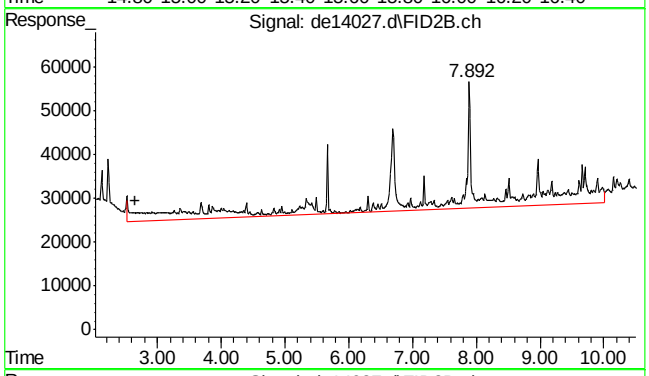


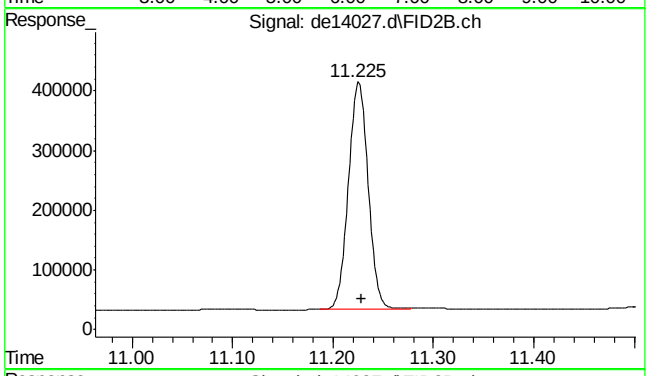
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



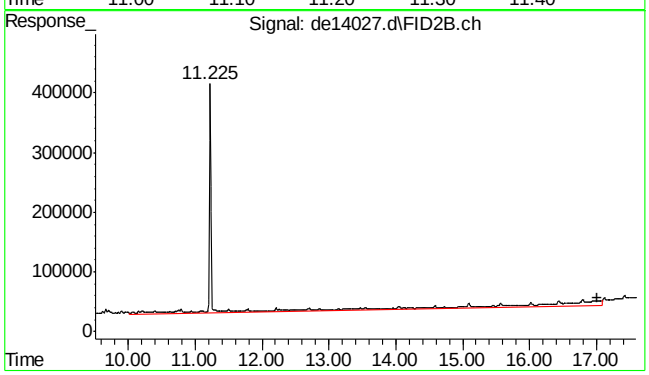
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 912759
Conc: 12.36 µg/ml m



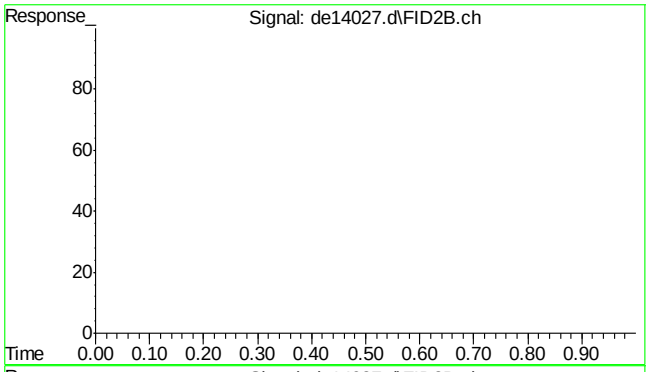
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 520920
Conc: 9.21 µg/ml



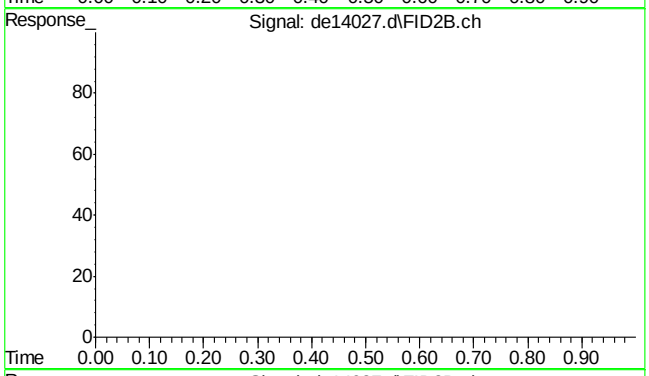
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 988971
Conc: 14.80 µg/ml m



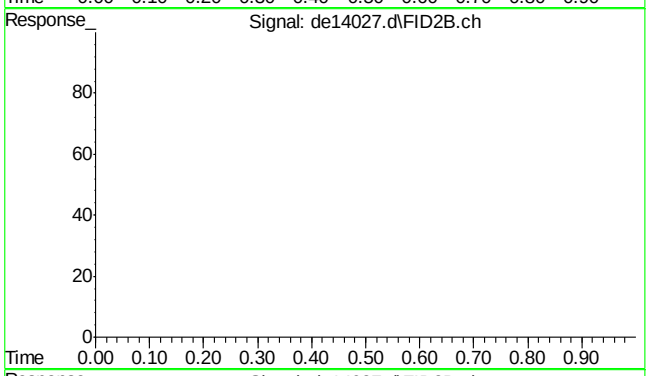
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



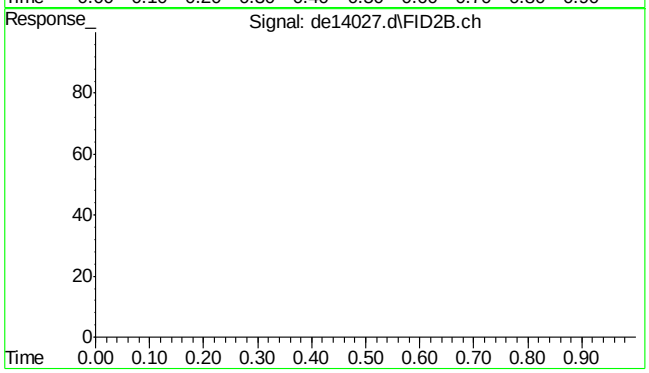
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14118.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 3:45 pm
Operator : thomasa
Sample : mc45678-3,op47484
Misc : op47484,gde792,11.25,,,2,,w
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 16:31:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1607560	17.430 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.15%#	
6) s 2-bromonaphthalene	7.333	1002075	15.968 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 79.84%#	
11) s o-terphenyl	9.870	1833358	17.899 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 89.50%#	
35) s 1-chlorooctadecane	11.225	762785	13.483 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 67.42%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3043140	30.988 µg/mlm
25) h c-9	2.648	1006757	13.628 µg/mlm
41) h c-36	17.008	1069927	16.015 µg/mlm

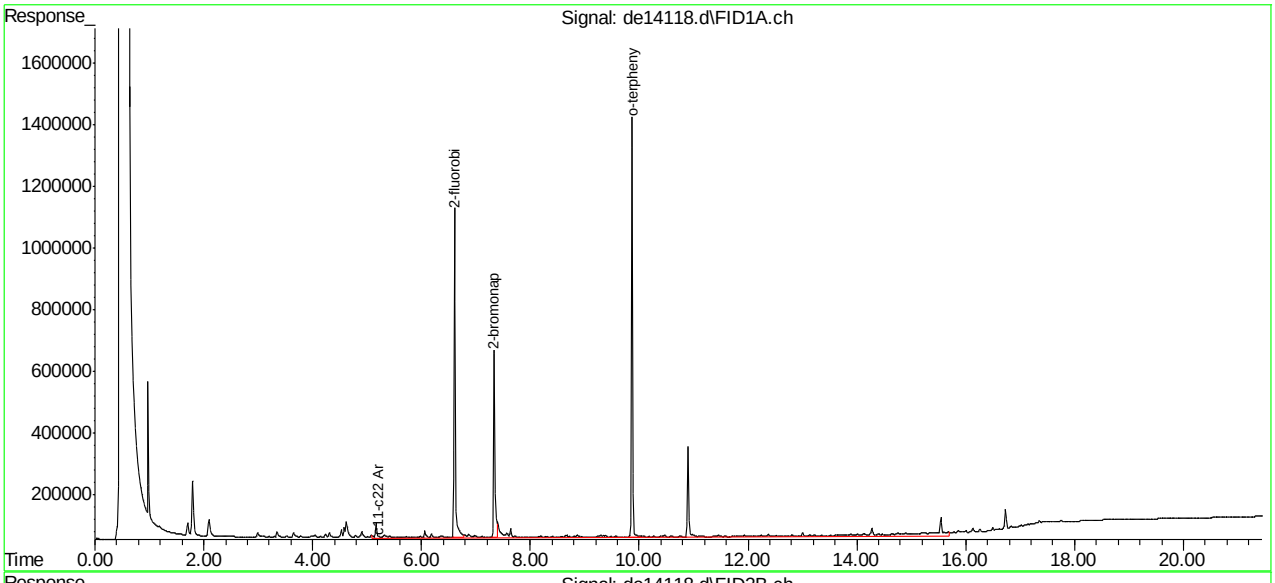
(f)=RT Delta > 1/2 Window (m)=manual int.

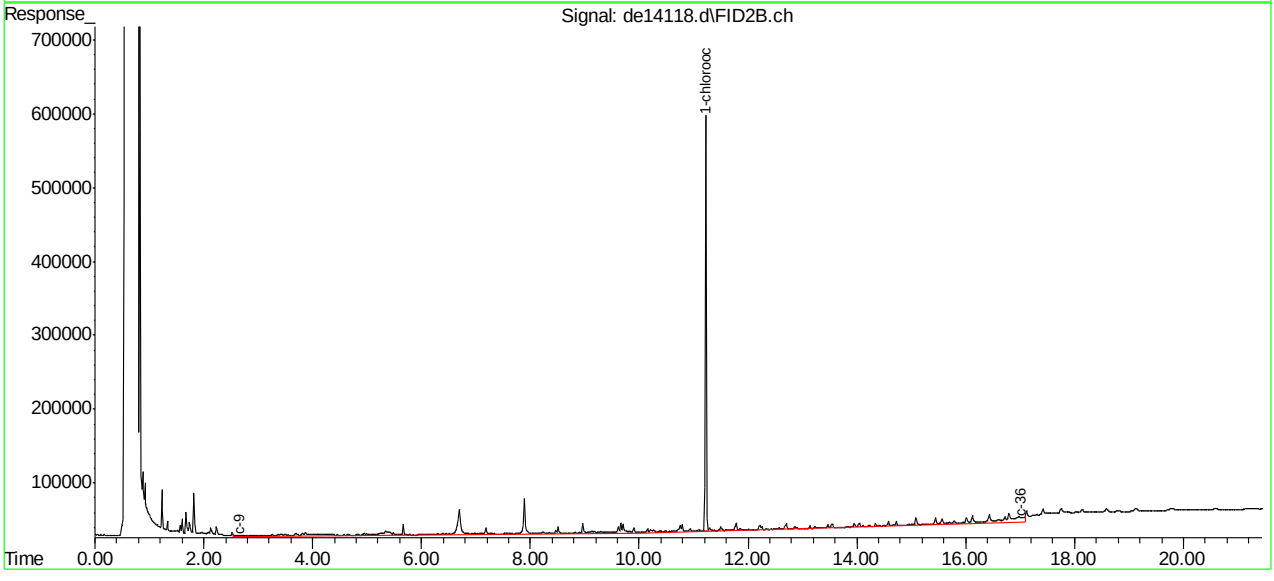
Quantitation Report (QT Reviewed)

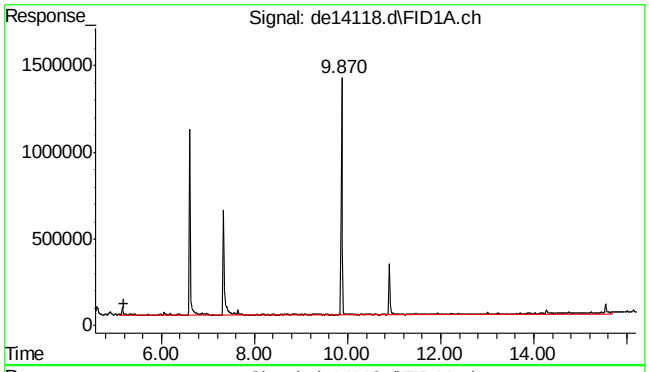
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14118.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 3:45 pm
Operator : thomasa
Sample : mc45678-3,op47484
Misc : op47484,gde792,11.25,,,2,,w
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 16:31:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

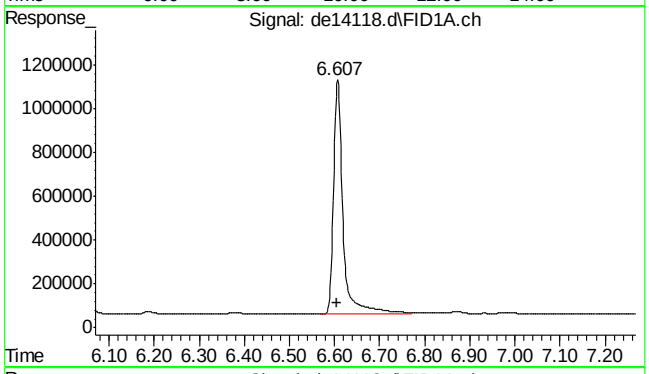






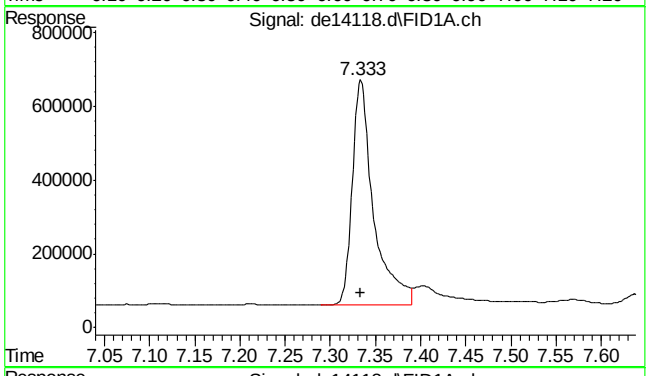
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3043140
Conc: 30.99 µg/ml m



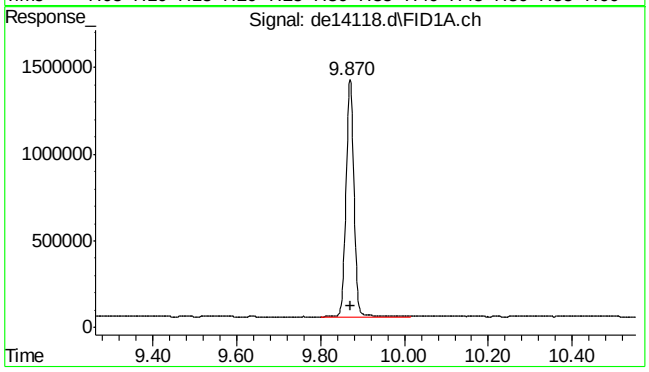
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 1607560
Conc: 17.43 µg/ml



#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 1002075
Conc: 15.97 µg/ml



#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 1833358
Conc: 17.90 µg/ml

9.1.3

9

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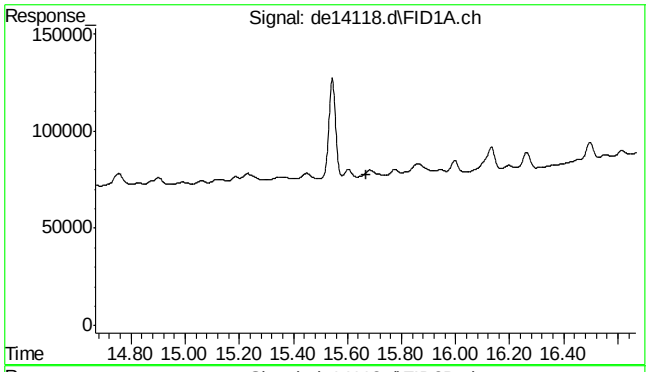
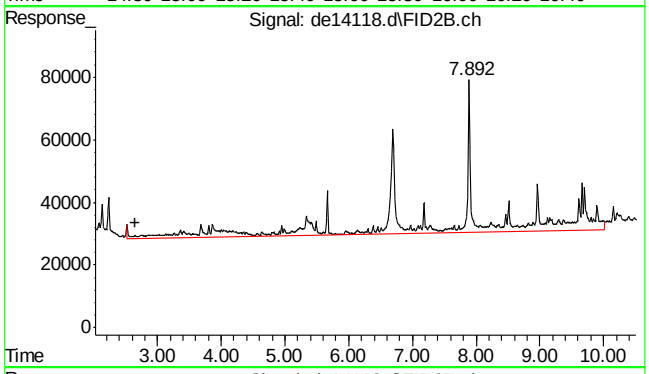


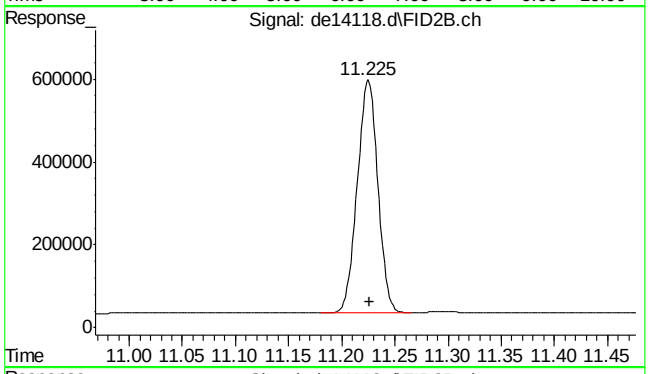
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



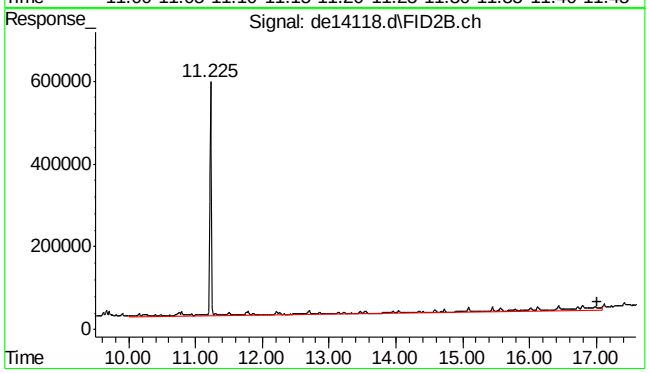
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1006757
Conc: 13.63 µg/ml m



#35 1-chlorooctadecane

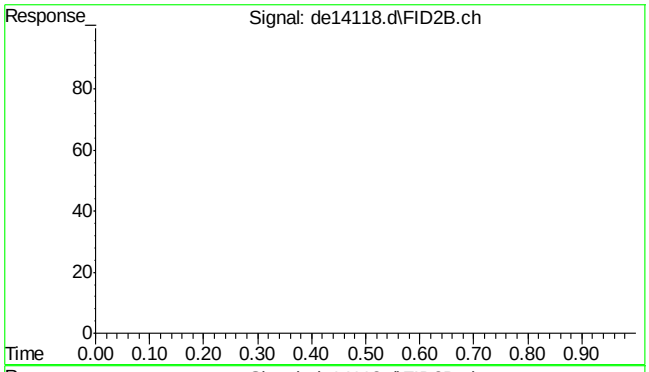
R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 762785
Conc: 13.48 µg/ml



#41 c-36

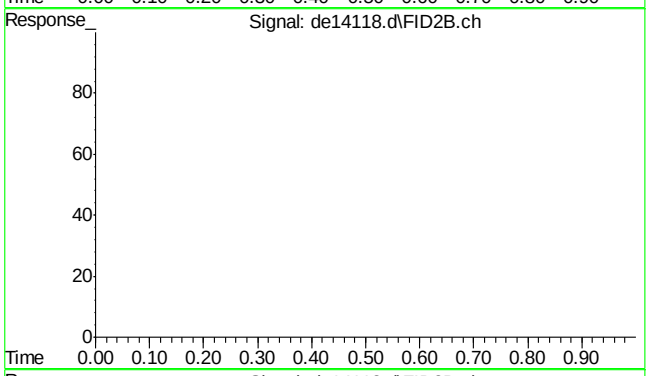
R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1069927
Conc: 16.02 µg/ml m

SGS ACCUTEST MC45678



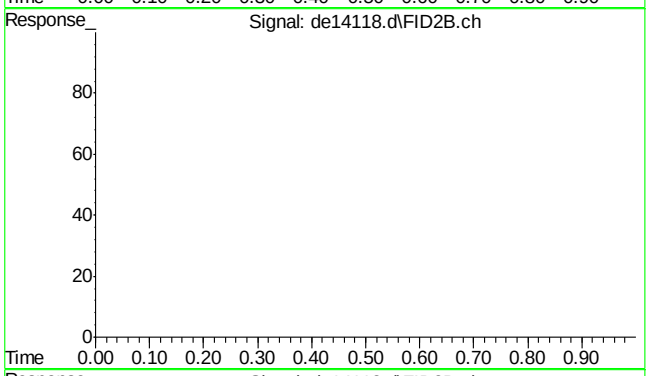
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



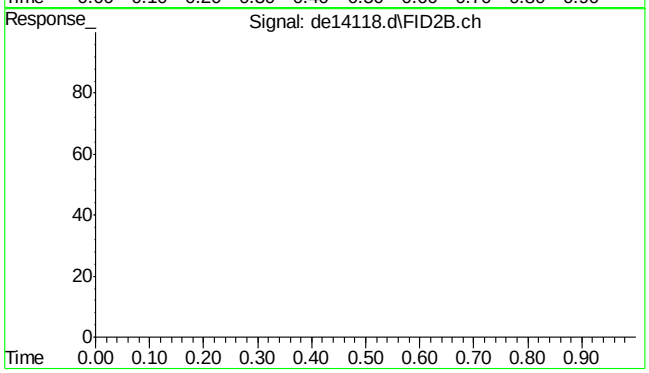
#43 bht

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.

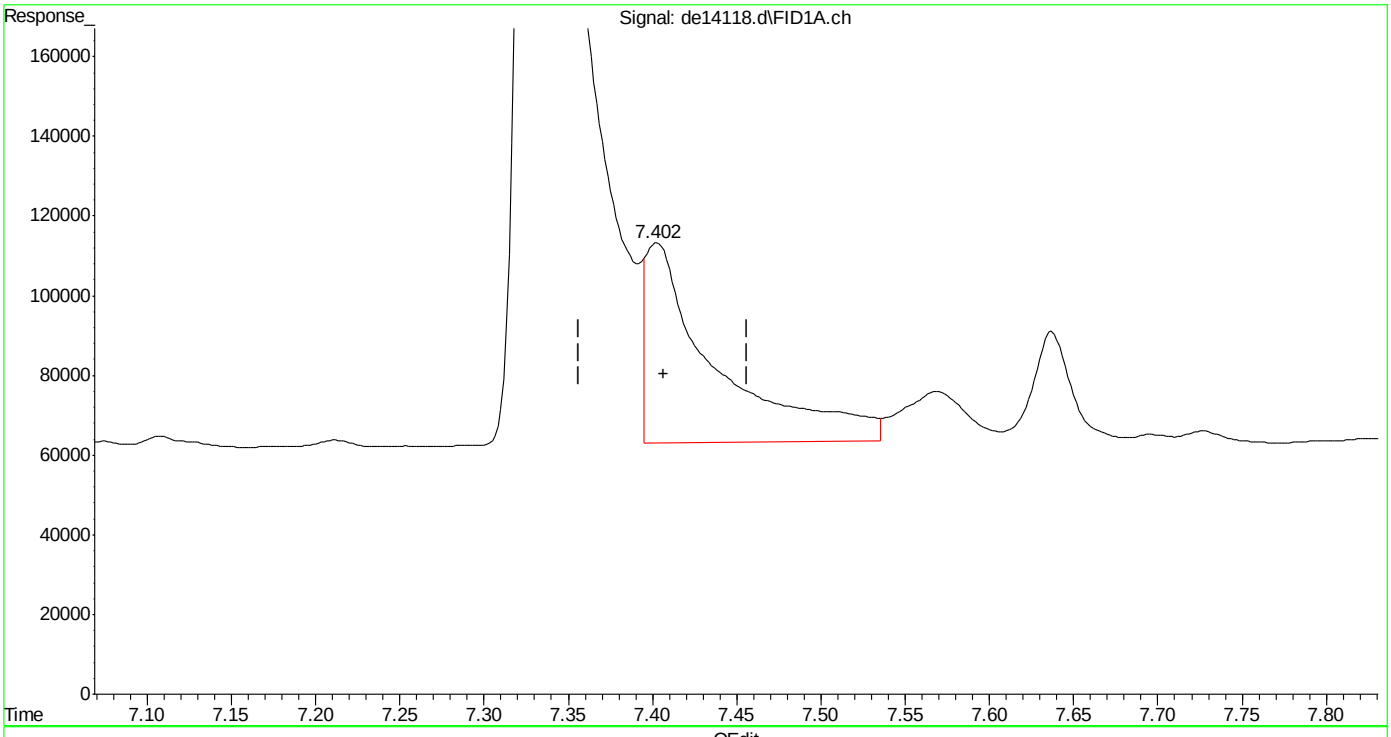
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14118.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 3:45 pm
Operator : thomasa
Sample : mc45678-3,op47484
Misc : op47484,gde792,11.25,,,2,,w
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 16:07:34 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene
7.402min 1.381 µg/ml
response 142737

(+) = Expected Retention Time

EPH160518W.M Wed May 18 16:29:15 2016 Page: 1

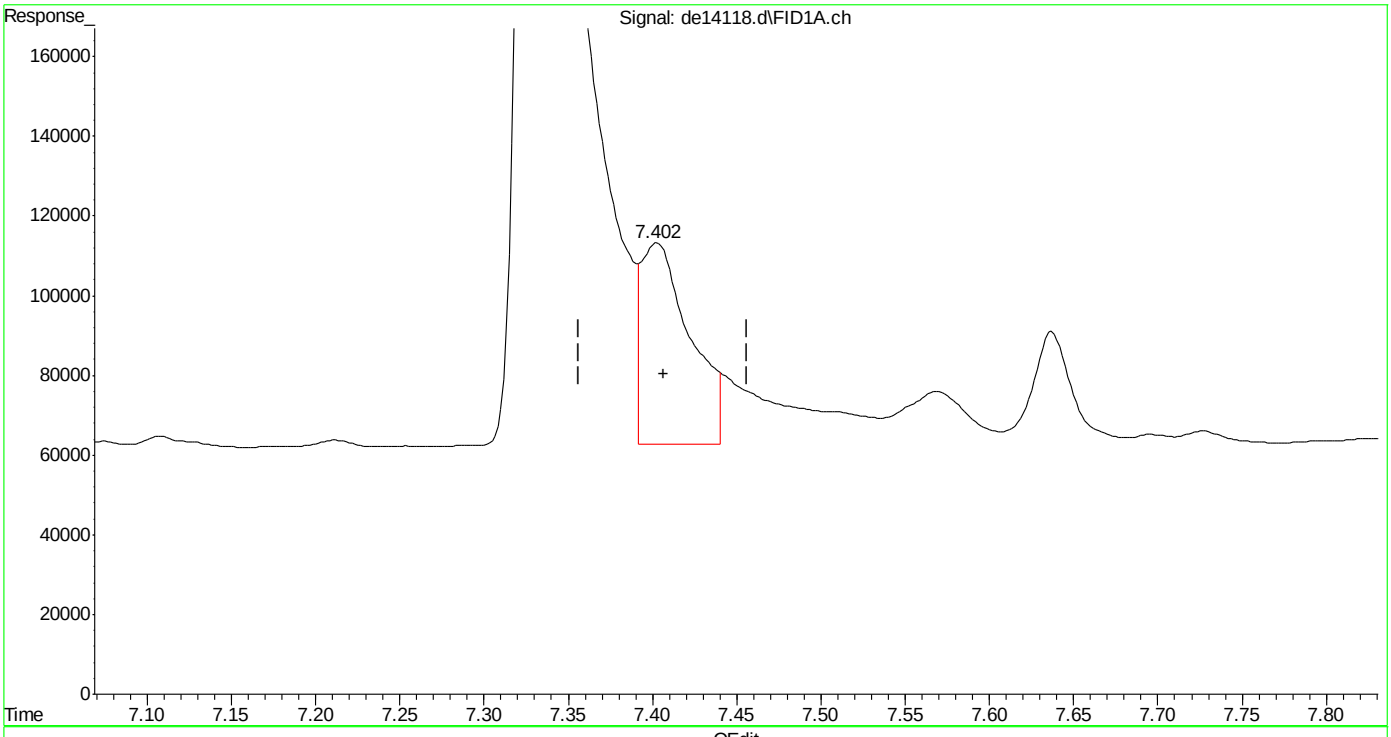
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14118.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 3:45 pm
Operator : thomasa
Sample : mc45678-3,op47484
Misc : op47484,gde792,11.25,,,2,,w
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 16:07:34 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene
7.402min 0.970 µg/ml m
response 100245

(+) = Expected Retention Time

EPH160518W.M Wed May 18 16:29:30 2016 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14025.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 10:24 am
Operator : thomasa
Sample : op47333-mb
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:23:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	6.697	1837439	19.922 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 99.61%#	
6) s 2-bromonaphthalene	7.433	1250954	19.934 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 99.67%#	
11) s o-terphenyl	9.967	2112581	20.625 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 103.13%#	
35) s 1-chlorooctadecane	11.225	809843	14.315 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 71.58%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3263895	33.236 µg/mlm
25) h c-9	2.648	864357	11.701 µg/mlm
41) h c-36	17.008	816178	12.217 µg/mlm

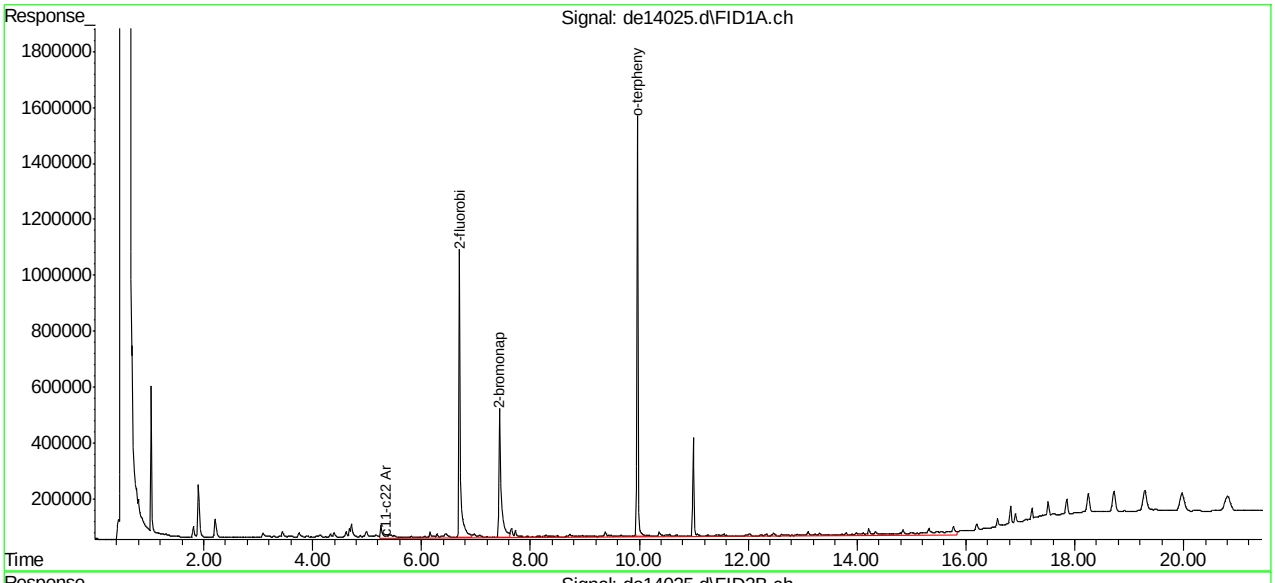
(f)=RT Delta > 1/2 Window (m)=manual int.

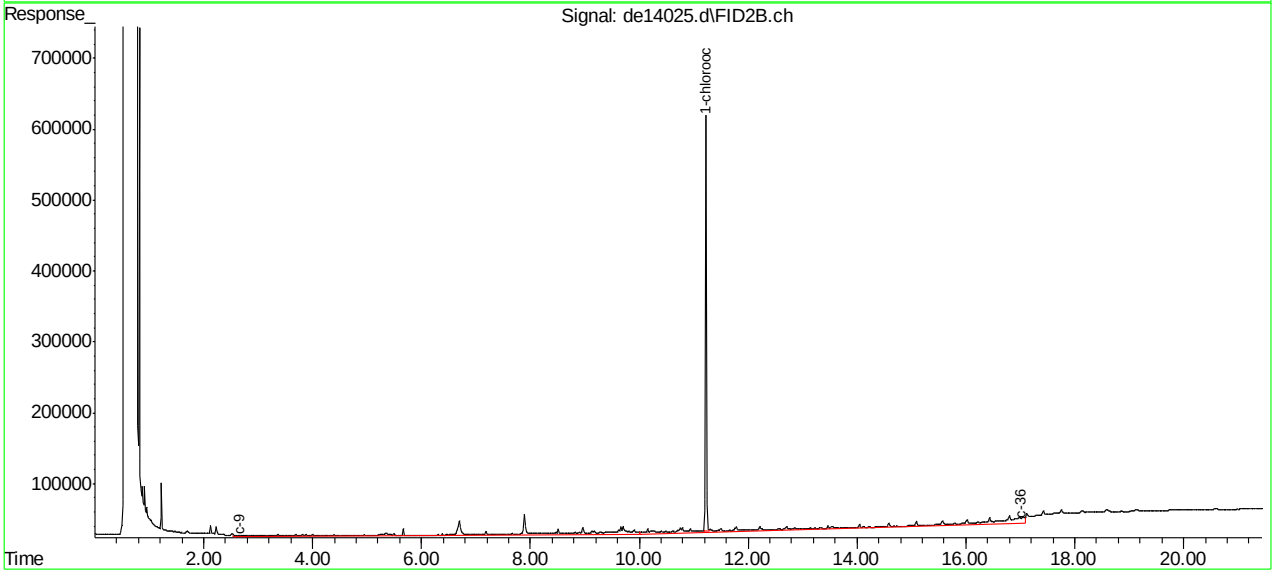
Quantitation Report (QT Reviewed)

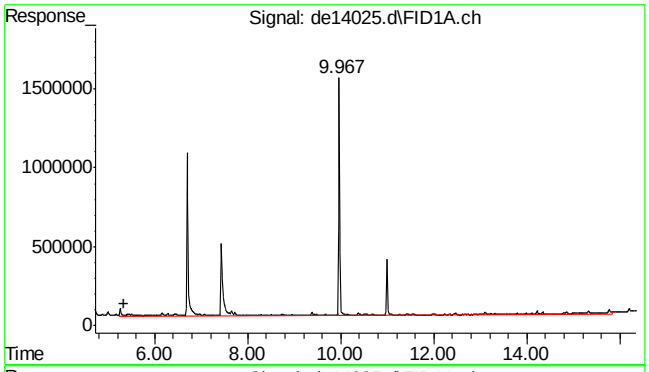
Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14025.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 10:24 am
Operator : thomasa
Sample : op47333-mb
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:23:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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

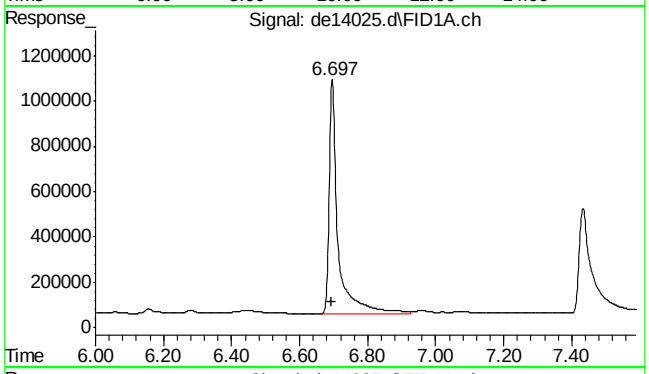






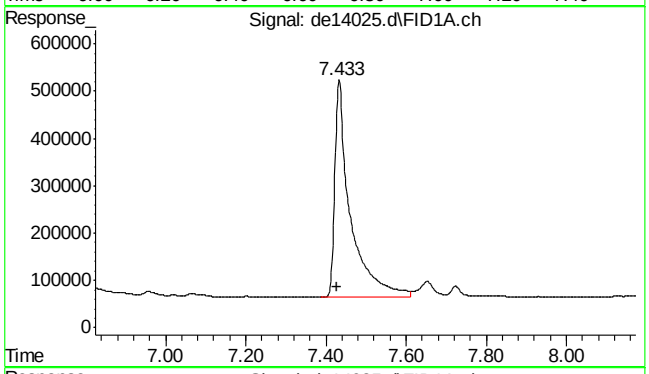
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3263895
Conc: 33.24 µg/ml m



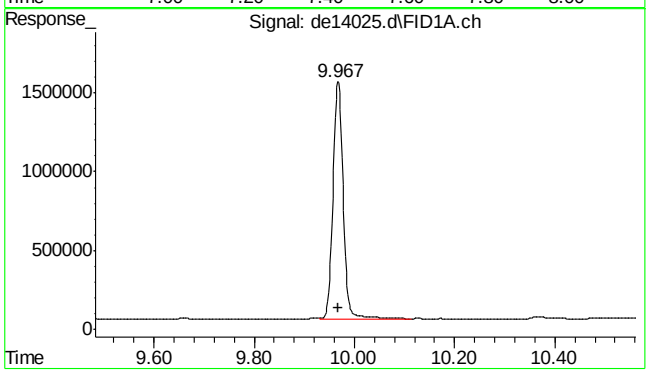
#4 2-fluorobiphenyl

R.T.: 6.697 min
Delta R.T.: 0.003 min
Response: 1837439
Conc: 19.92 µg/ml



#6 2-bromonaphthalene

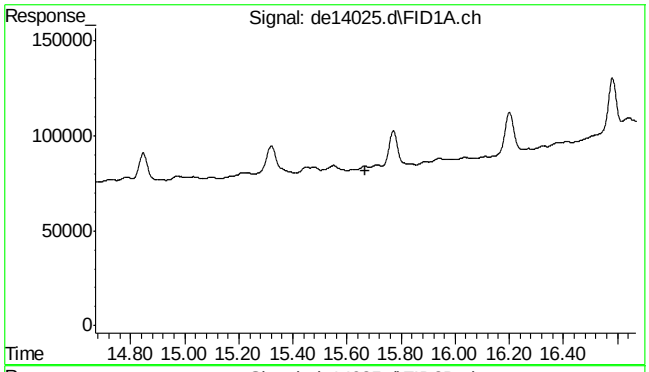
R.T.: 7.433 min
Delta R.T.: 0.007 min
Response: 1250954
Conc: 19.93 µg/ml



#11 o-terphenyl

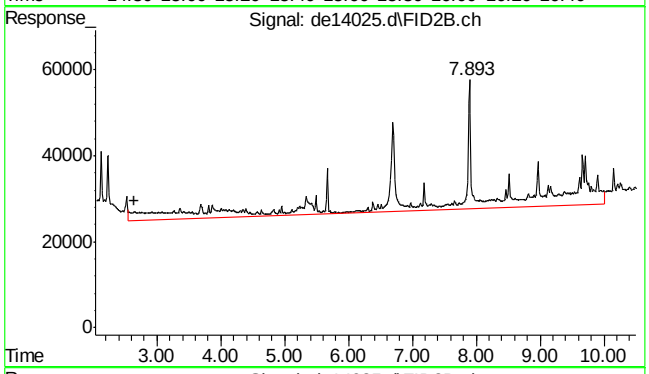
R.T.: 9.967 min
Delta R.T.: -0.002 min
Response: 2112581
Conc: 20.63 µg/ml

SGS ACCUTEST MC45678



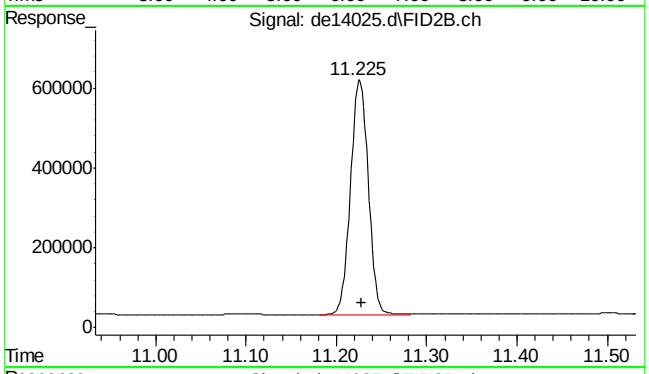
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



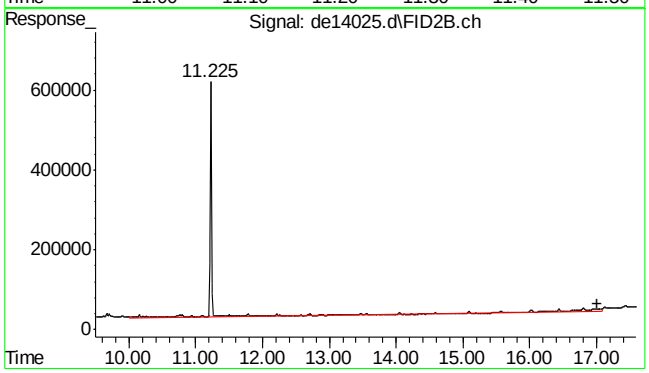
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 864357
Conc: 11.70 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 809843
Conc: 14.31 µg/ml



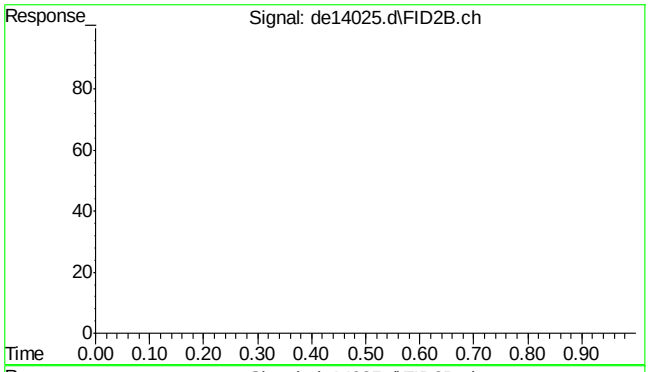
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 816178
Conc: 12.22 µg/ml m

9.2.1

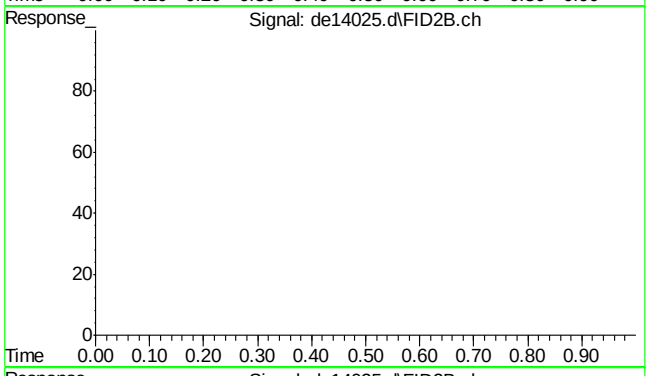
9

SGS ACCUTEST MC45678



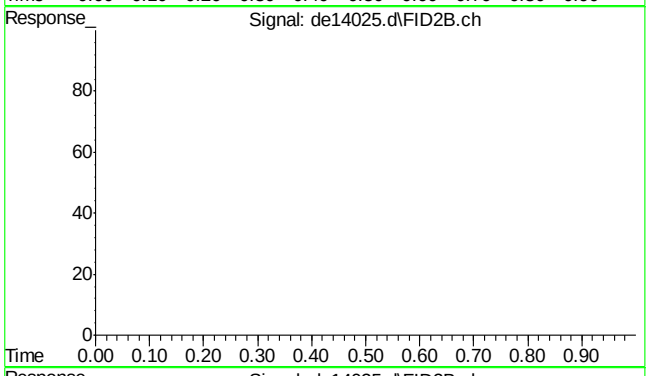
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



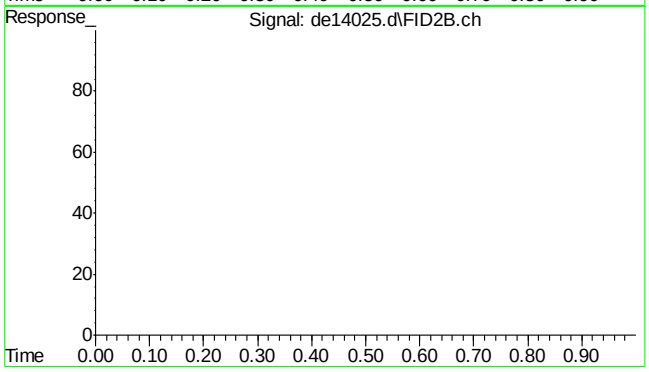
#43 bht

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 MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14109.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 11:33 am
Operator : thomasa
Sample : op47484-mb
Misc : op47484,gde792,11.10,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:03:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1698372	18.415 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 92.07%#		
6) s 2-bromonaphthalene	7.333	1196498	19.066 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 95.33%#		
11) s o-terphenyl	9.870	1875614	18.312 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 91.56%#		
35) s 1-chlorooctadecane	11.225	836690	14.789 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 73.94%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2499700	25.454 µg/mlm
25) h c-9	2.648	1030920	13.955 µg/mlm
41) h c-36	17.008	1003810	15.026 µg/mlm

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

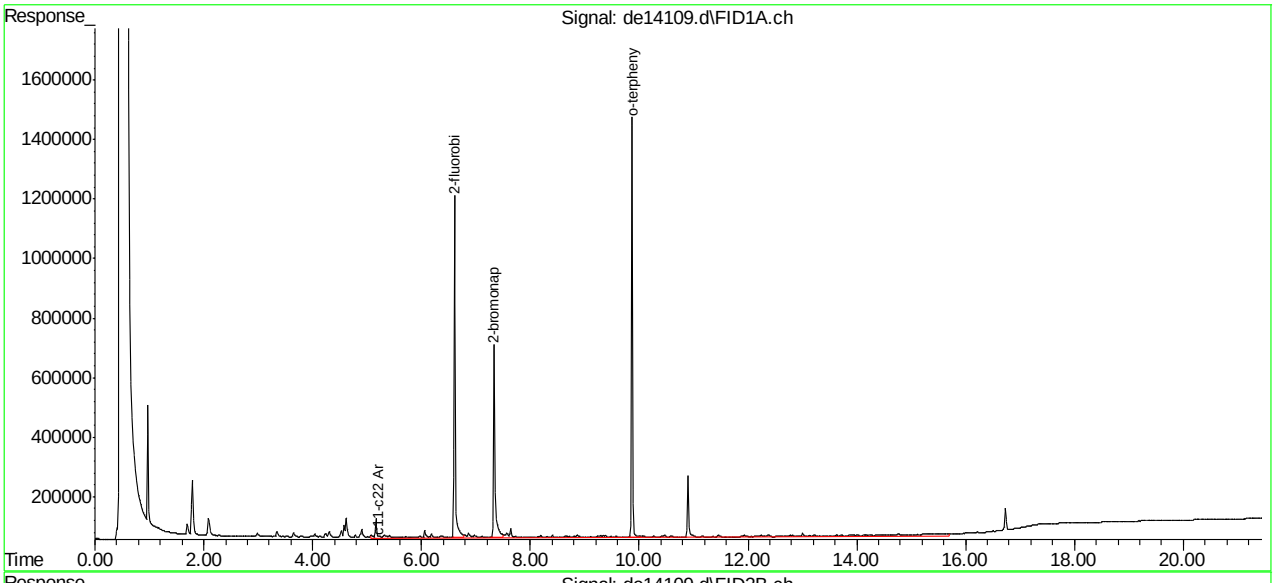
SGS ACCUTEST MC45678

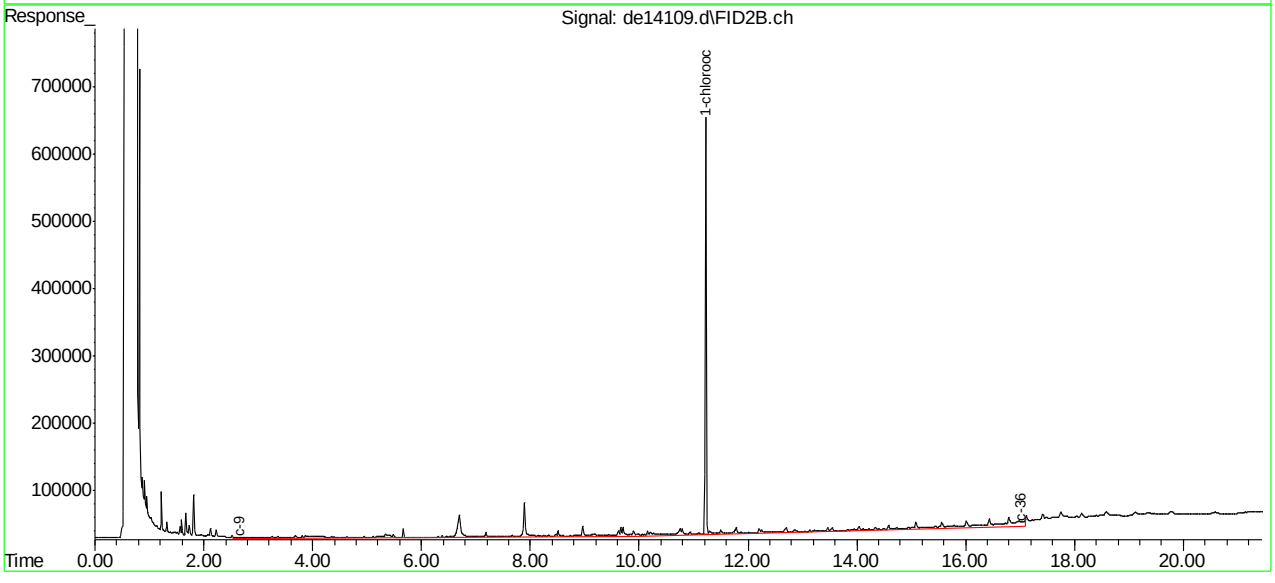
Quantitation Report (QT Reviewed)

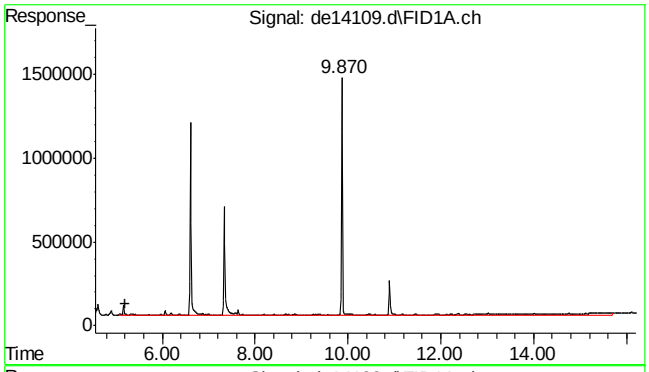
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14109.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 11:33 am
Operator : thomasa
Sample : op47484-mb
Misc : op47484,gde792,11.10,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:03:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

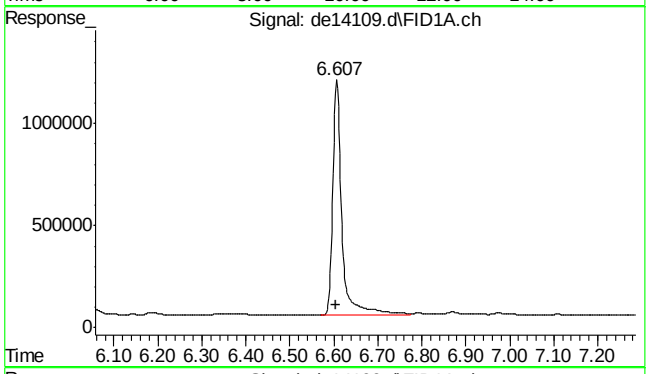






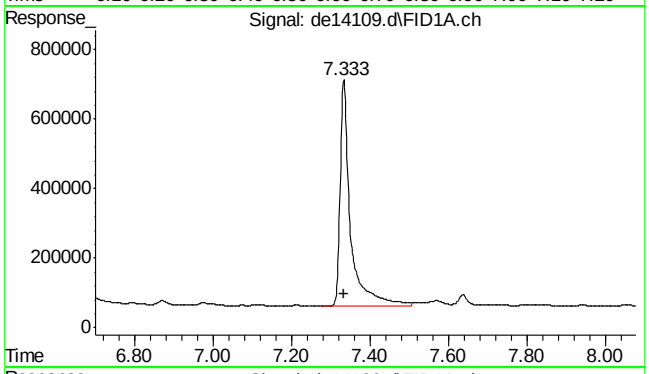
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2499700
Conc: 25.45 µg/ml m



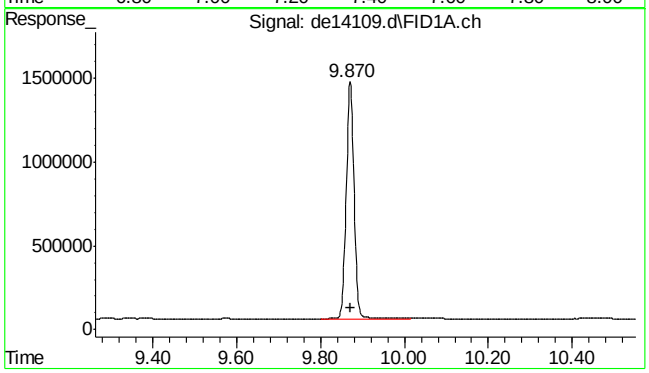
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 1698372
Conc: 18.41 µg/ml



#6 2-bromonaphthalene

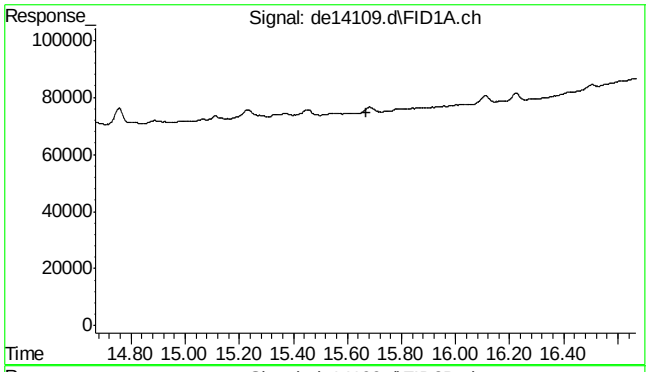
R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 1196498
Conc: 19.07 µg/ml



#11 o-terphenyl

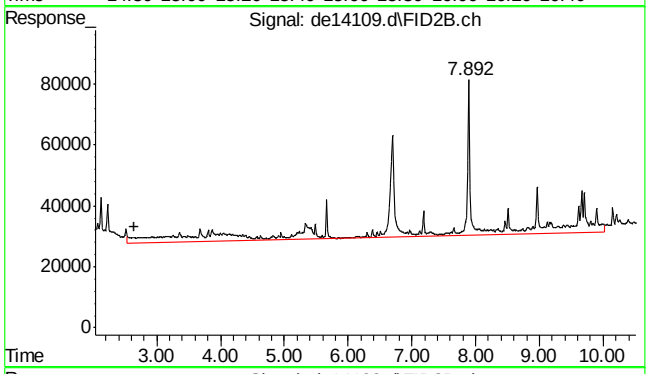
R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 1875614
Conc: 18.31 µg/ml

SGS ACCUTEST MC45678



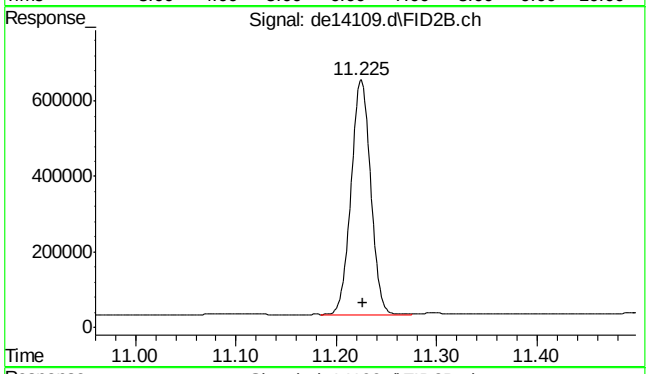
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



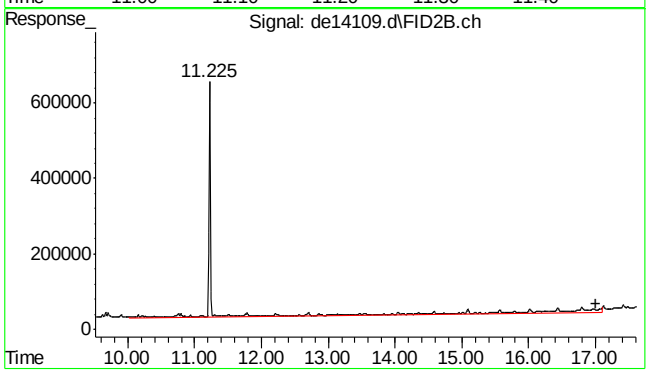
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1030920
Conc: 13.96 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 836690
Conc: 14.79 µg/ml



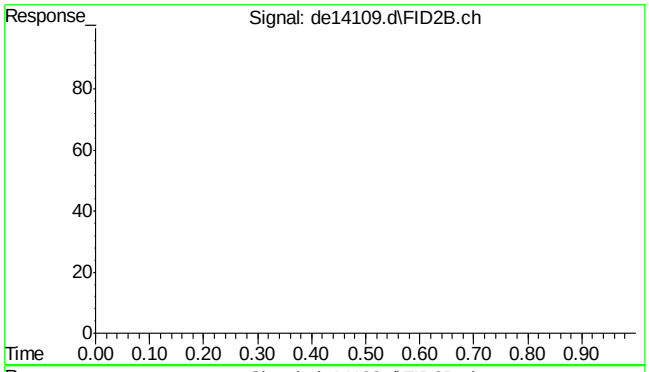
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1003810
Conc: 15.03 µg/ml m

9.2.2

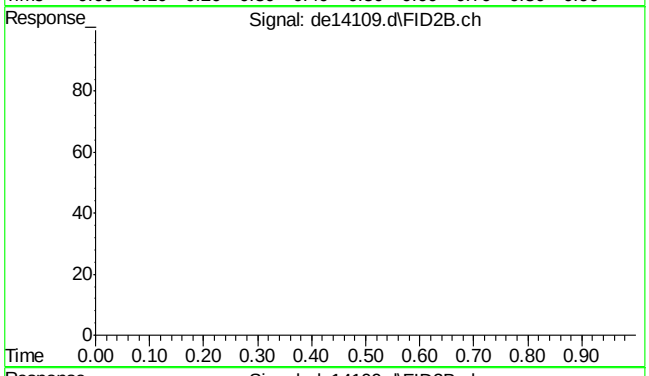
9

SGS ACCUTEST MC45678



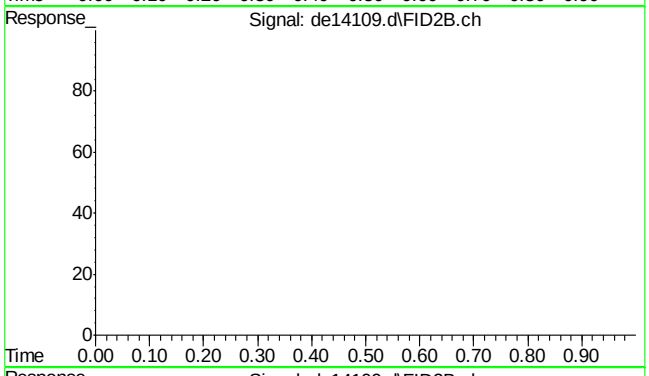
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



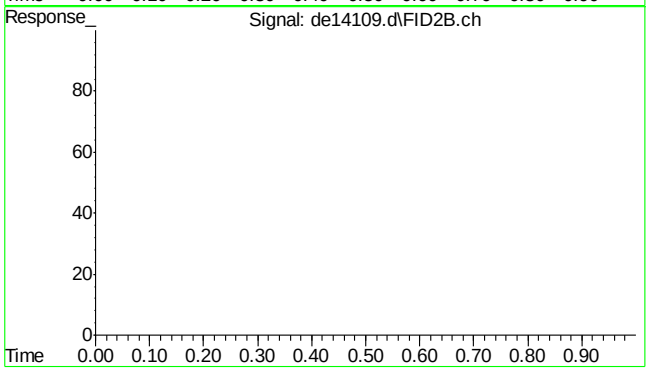
#43 bht

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 MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/06/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14023.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:29 am
Operator : thomasa
Sample : op47333-bs
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:01:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	6.702	1538335	16.679 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	83.39%#
6) s 2-bromonaphthalene	7.433	930874	14.833 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	74.17%#
11) s o-terphenyl	9.970	1633152	15.945 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	79.72%#
35) s 1-chlorooctadecane	11.227	844194	14.922 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	74.61%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	34560840	351.927 µg/mlm
2) naphthalene	5.253	1358081	13.167 µg/ml
3) 2-methylnaphthalene	6.150	1469332	14.337 µg/ml
5) acenaphthylene	7.265	1568271	15.589 µg/ml
7) acenaphthene	7.505	1814939	17.557 µg/ml
8) fluorene	8.152	1694544	16.684 µg/ml
9) phenanthrene	9.335	1649562	16.210 µg/ml
10) anthracene	9.395	2027183	20.897 µg/ml
12) fluoranthene	10.843	1893366	18.945 µg/ml
13) pyrene	11.102	1910964	18.834 µg/ml
14) benzo(a)anthracene	12.665	1921420	19.875 µg/ml
15) chrysene	12.712	1938617	19.916 µg/ml
16) benzo(B)fluoranthene	13.970	1923686	19.431 µg/ml
17) benzo(k)fluoranthene	13.993	1933962	20.465 µg/ml
18) benzo(a)pyrene	14.305	1921901	20.792 µg/ml
19) indeno(1,2,3-cd)pyrene	15.450	1943396	20.531 µg/mlm
20) dibenzo(ah)anthracene	15.490	1891034	20.690 µg/mlm
21) benzo(ghi)perylene	15.672	1925284	20.899 µg/ml
25) h c-9	2.648	687638	9.308 µg/mlm
26) h c-10	3.815	876360	11.863 µg/ml
27) naphthalene #2	5.488	4538	0.057 µg/ml
28) c-12	5.665	1128974	15.283 µg/ml
29) 2-methylnaphthalene #2	6.383	4832	0.060 µg/ml
30) c-14	7.183	1256117	17.004 µg/ml
31) c-16	8.512	1303679	17.648 µg/ml
32) c-18	9.707	1387432	18.782 µg/ml
33) c-19	10.262	1406938	21.060 µg/ml
34) c-20	10.793	1451928	21.733 µg/ml
36) c-22	11.790	1490165	22.306 µg/ml
37) c-24	12.708	1491617	22.327 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14023.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:29 am
Operator : thomasa
Sample : op47333-bs
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:01:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	1465345	21.934	µg/ml
39)		c-28	14.353	1438933	21.539	µg/ml
40)	h	c-30	15.098	1375768	20.593	µg/ml
41)	h	c-36	17.008	905512	13.554	µg/mlm

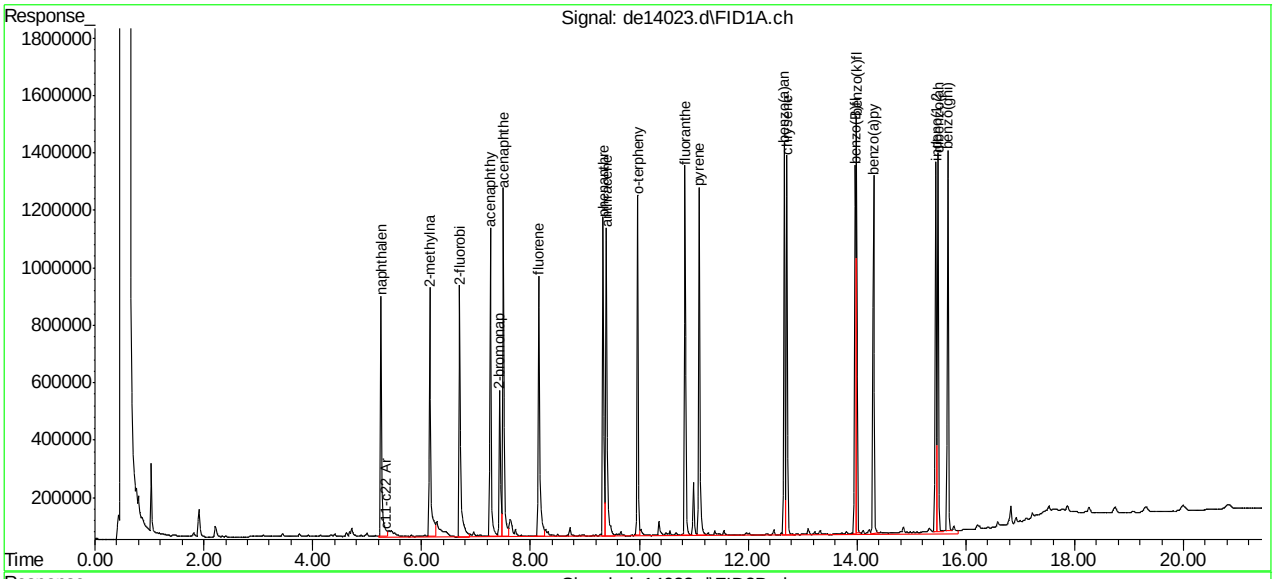
(f)=RT Delta > 1/2 Window (m)=manual int.

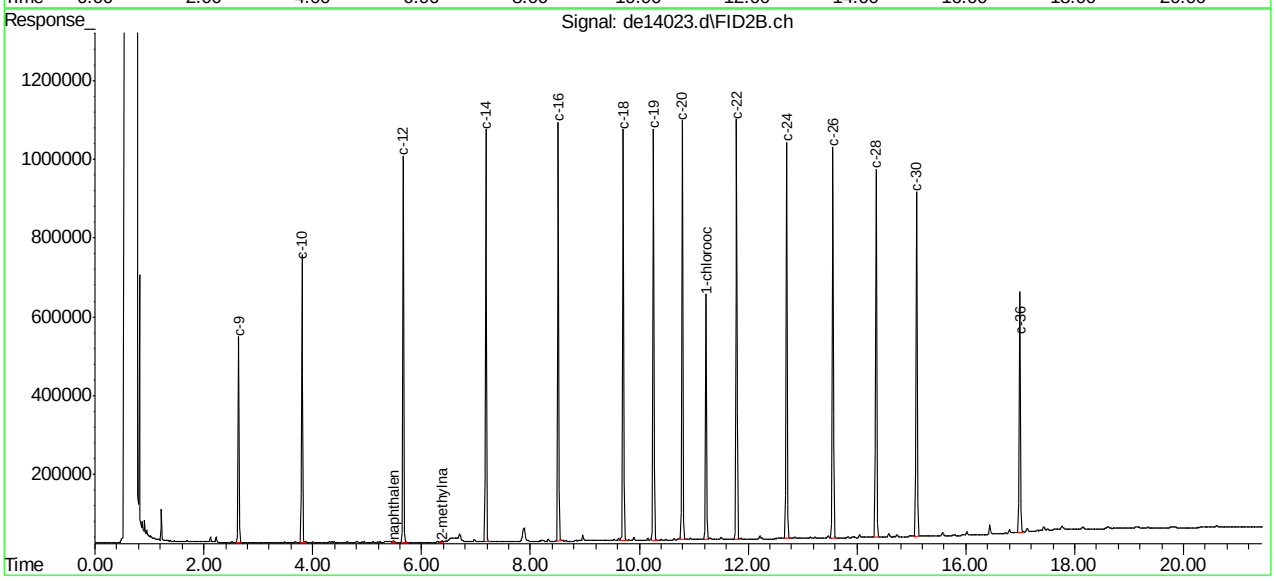
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14023.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:29 am
Operator : thomasa
Sample : op47333-bs
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

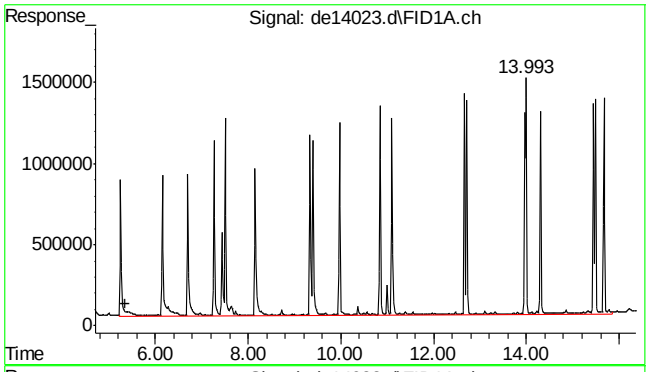
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:01:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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



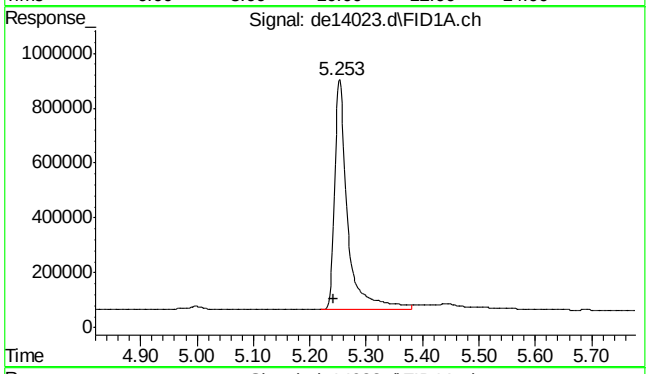


SGS ACCUTEST MC45678



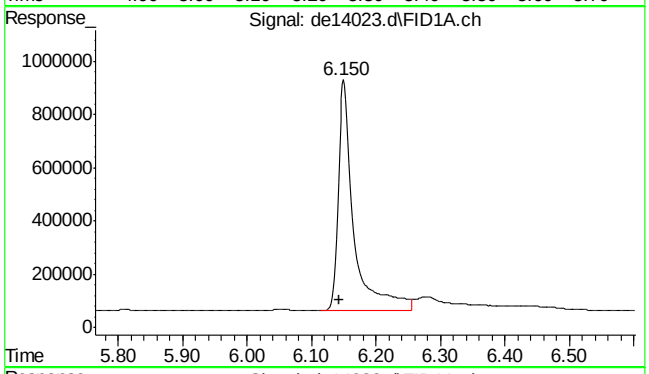
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 34560840
Conc: 351.93 µg/ml m



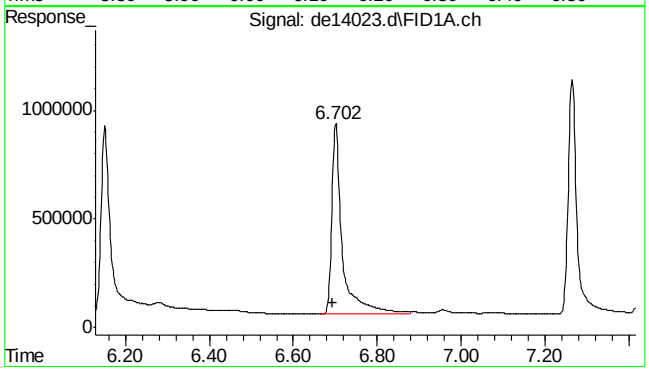
#2 naphthalene

R.T.: 5.253 min
Delta R.T.: 0.010 min
Response: 1358081
Conc: 13.17 µg/ml



#3 2-methylnaphthalene

R.T.: 6.150 min
Delta R.T.: 0.007 min
Response: 1469332
Conc: 14.34 µg/ml



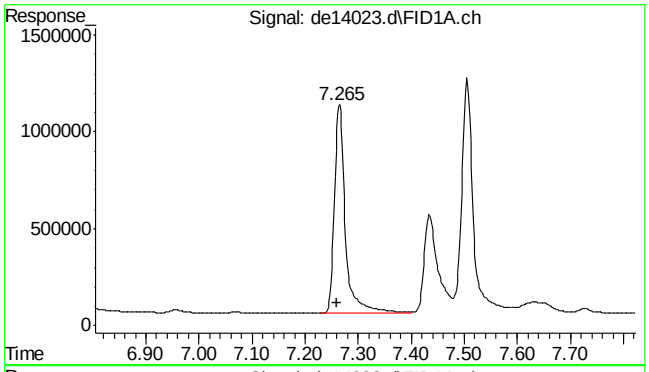
#4 2-fluorobiphenyl

R.T.: 6.702 min
Delta R.T.: 0.008 min
Response: 1538335
Conc: 16.68 µg/ml

9.3.1

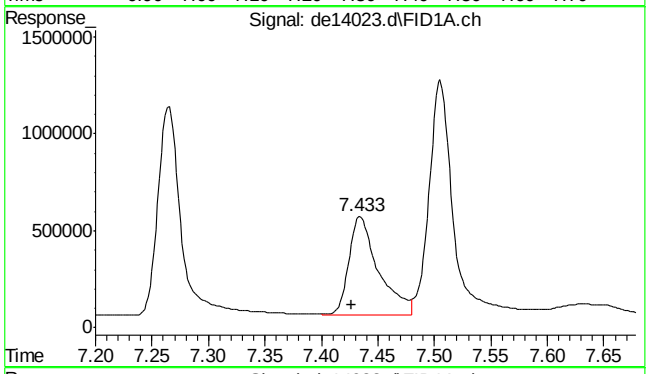
9

SGS ACCUTEST MC45678



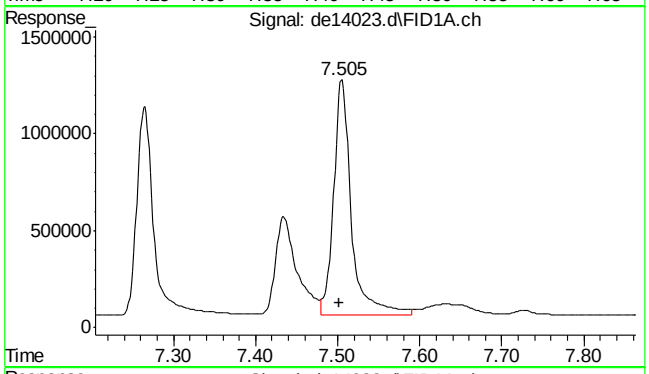
#5 acenaphthylene

R.T.: 7.265 min
Delta R.T.: 0.005 min
Response: 1568271
Conc: 15.59 µg/ml



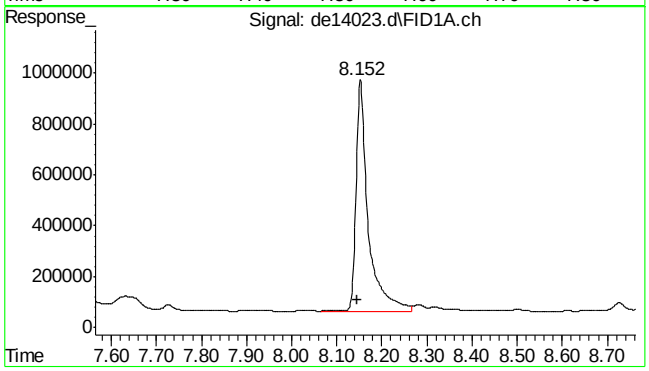
#6 2-bromonaphthalene

R.T.: 7.433 min
Delta R.T.: 0.007 min
Response: 930874
Conc: 14.83 µg/ml



#7 acenaphthene

R.T.: 7.505 min
Delta R.T.: 0.003 min
Response: 1814939
Conc: 17.56 µg/ml



#8 fluorene

R.T.: 8.152 min
Delta R.T.: 0.005 min
Response: 1694544
Conc: 16.68 µg/ml

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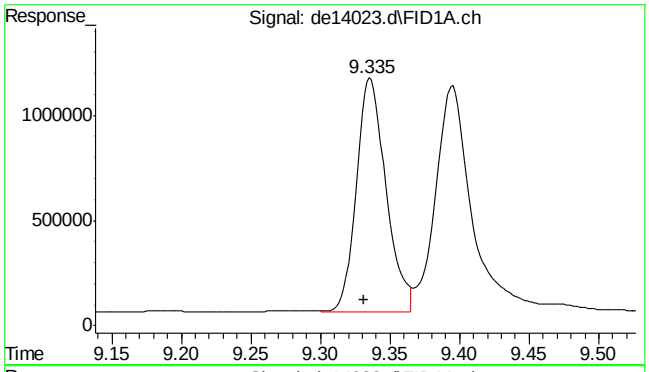
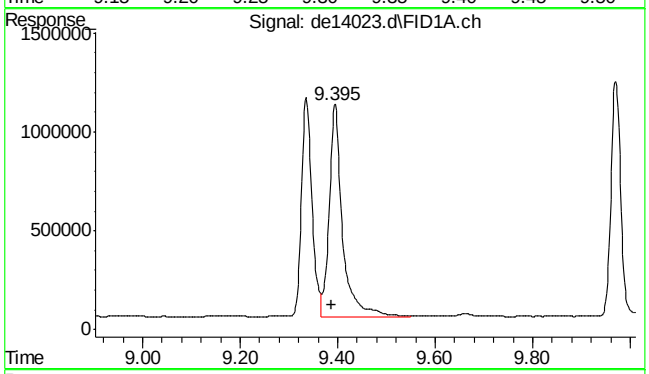


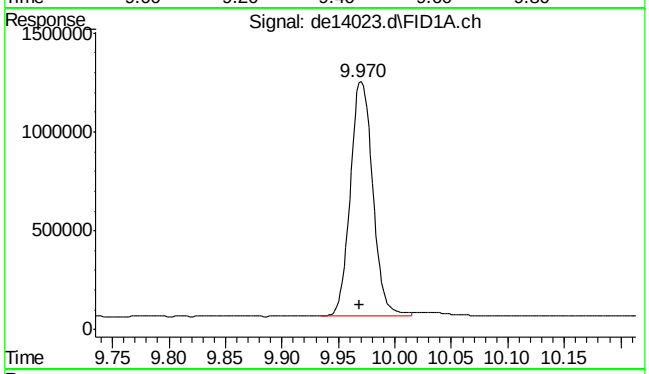
#9 phenanthrene

R.T.: 9.335 min
Delta R.T.: 0.003 min
Response: 1649562
Conc: 16.21 µg/ml



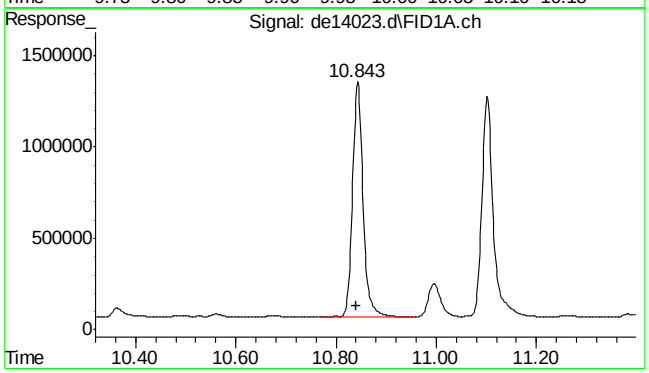
#10 anthracene

R.T.: 9.395 min
Delta R.T.: 0.007 min
Response: 2027183
Conc: 20.90 µg/ml



#11 o-terphenyl

R.T.: 9.970 min
Delta R.T.: 0.002 min
Response: 1633152
Conc: 15.94 µg/ml



#12 fluoranthene

R.T.: 10.843 min
Delta R.T.: 0.003 min
Response: 1893366
Conc: 18.94 µg/ml

9.3.1

9

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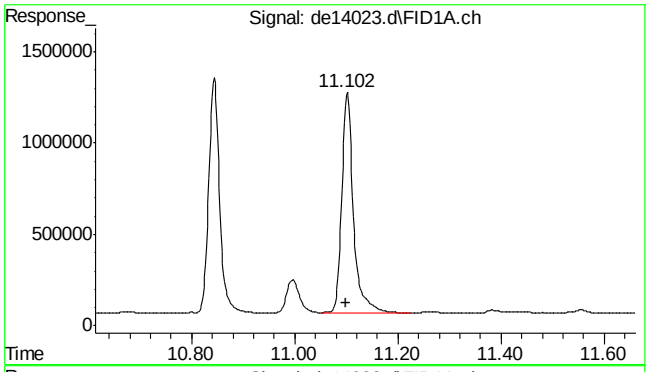
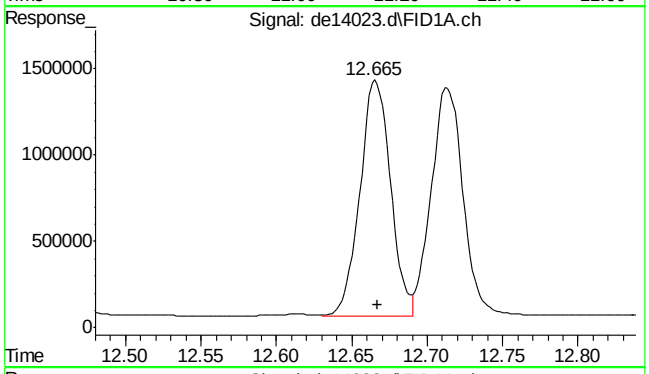


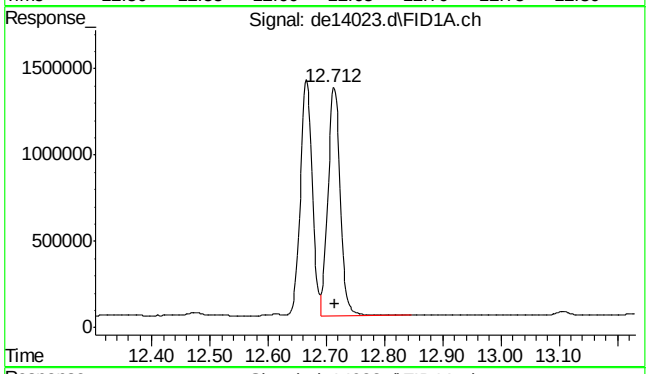
#13 pyrene

R.T.: 11.102 min
Delta R.T.: 0.002 min
Response: 1910964
Conc: 18.83 µg/ml



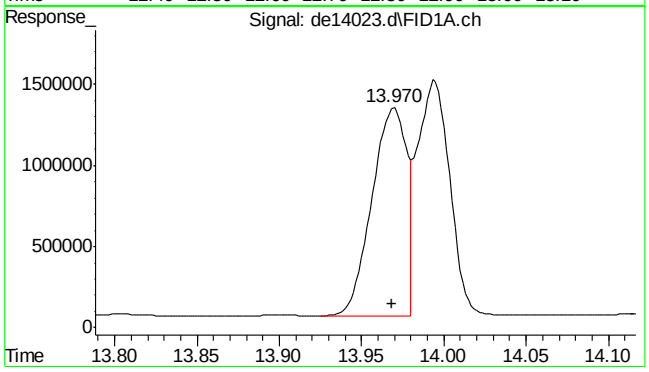
#14 benzo(a)anthracene

R.T.: 12.665 min
Delta R.T.: -0.002 min
Response: 1921420
Conc: 19.88 µg/ml



#15 chrysene

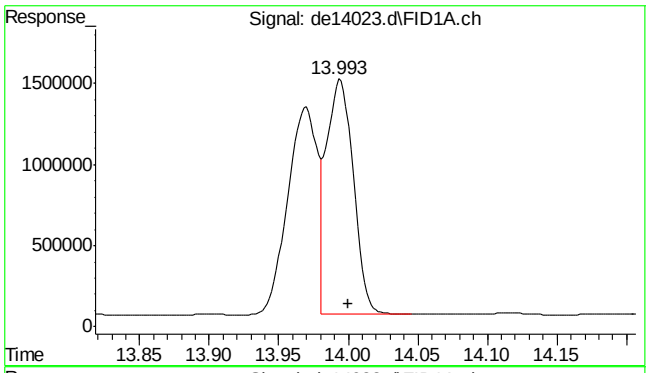
R.T.: 12.712 min
Delta R.T.: -0.003 min
Response: 1938617
Conc: 19.92 µg/ml



#16 benzo(B)fluoranthene

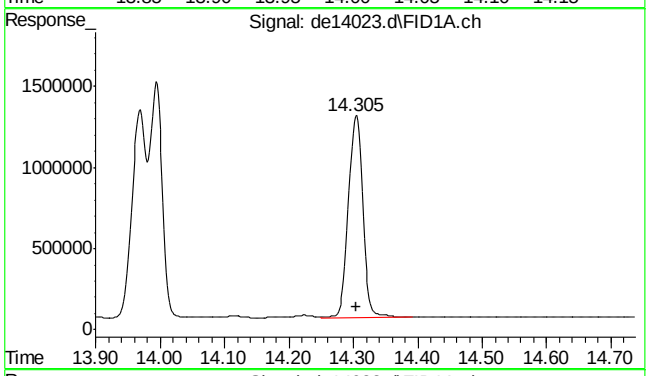
R.T.: 13.970 min
Delta R.T.: 0.002 min
Response: 1923686
Conc: 19.43 µg/ml

SGS ACCUTEST MC45678



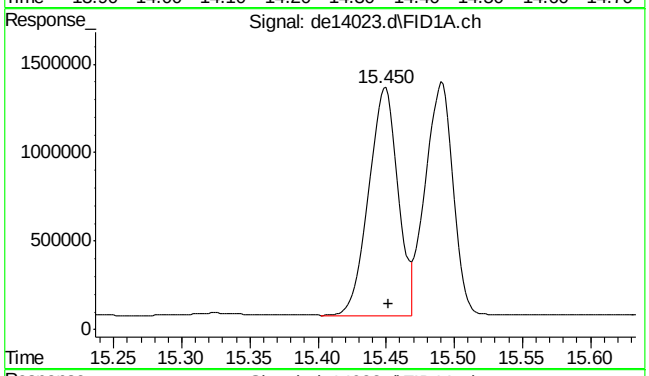
#17 benzo(k)fluoranthene

R.T.: 13.993 min
Delta R.T.: -0.007 min
Response: 1933962
Conc: 20.46 µg/ml



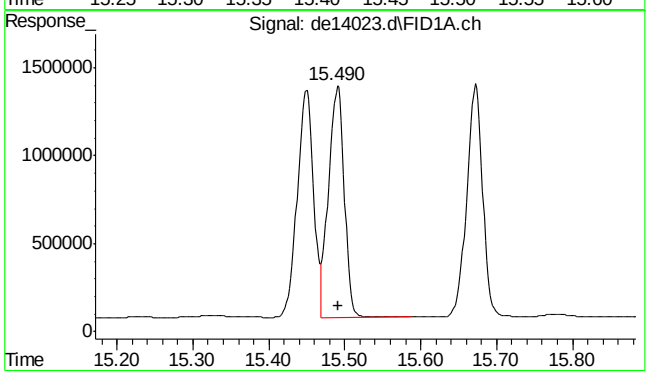
#18 benzo(a)pyrene

R.T.: 14.305 min
Delta R.T.: 0.000 min
Response: 1921901
Conc: 20.79 µg/ml



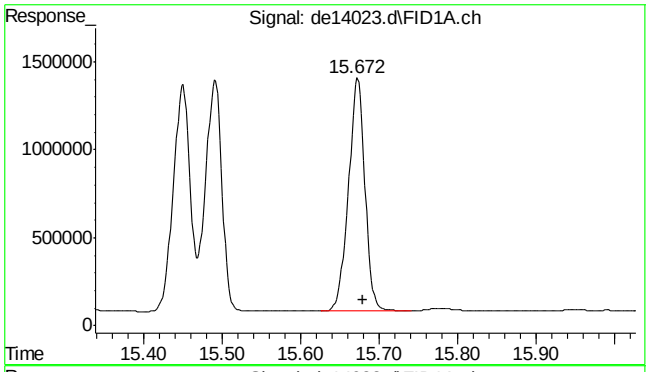
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.450 min
Delta R.T.: -0.002 min
Response: 1943396
Conc: 20.53 µg/ml m



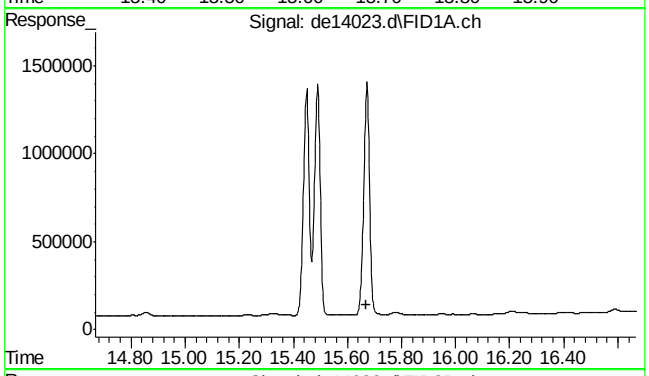
#20 dibenzo(ah)anthracene

R.T.: 15.490 min
Delta R.T.: -0.002 min
Response: 1891034
Conc: 20.69 µg/ml m



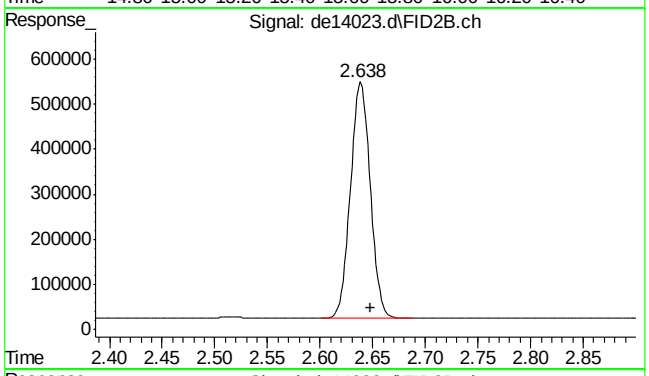
#21 benzo(ghi)perylene

R.T.: 15.672 min
Delta R.T.: -0.007 min
Response: 1925284
Conc: 20.90 µg/ml



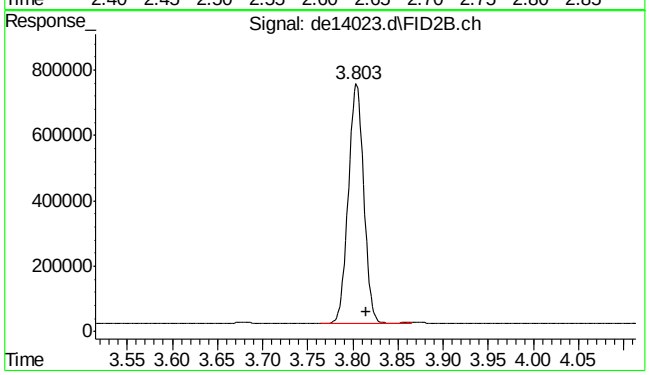
#22 bht

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: 687638
Conc: 9.31 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 876360
Conc: 11.86 µg/ml

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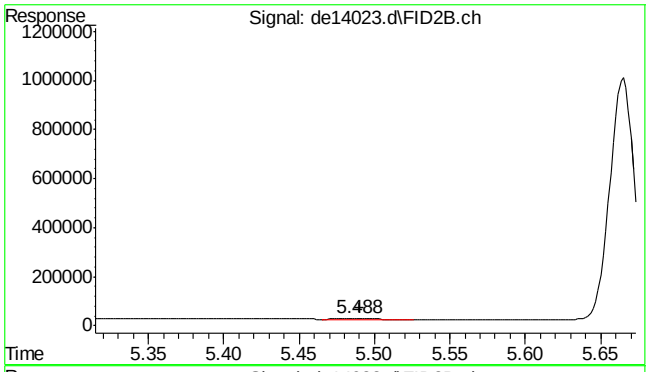
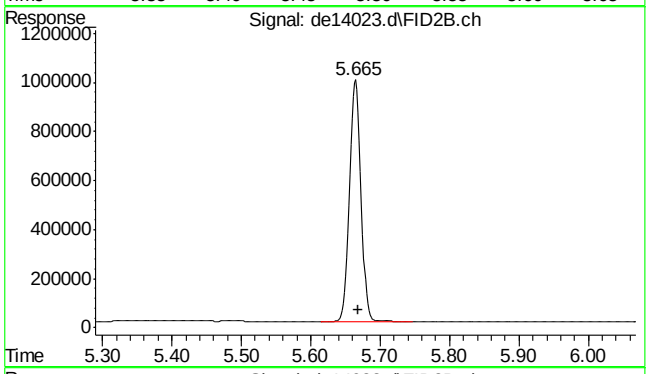


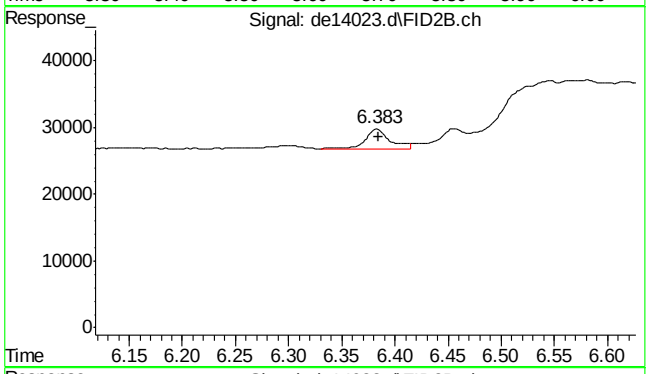
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: -0.002 min
Response: 4538
Conc: 0.06 µg/ml



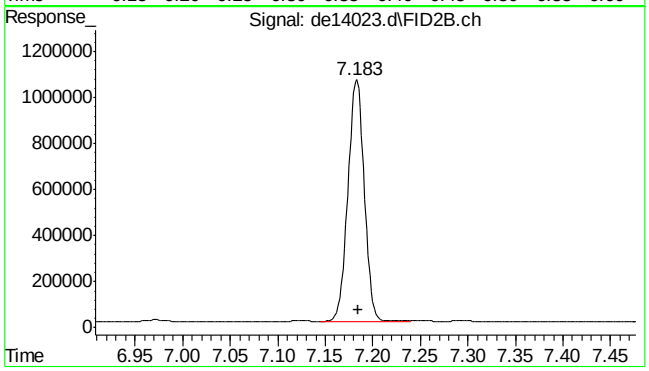
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 1128974
Conc: 15.28 µg/ml



#29 2-methylnaphthalene #2

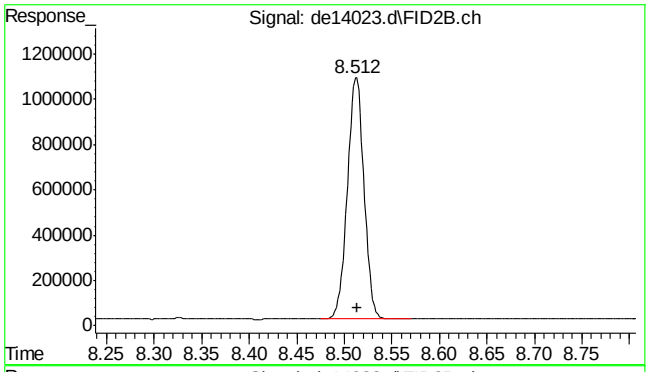
R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 4832
Conc: 0.06 µg/ml



#30 c-14

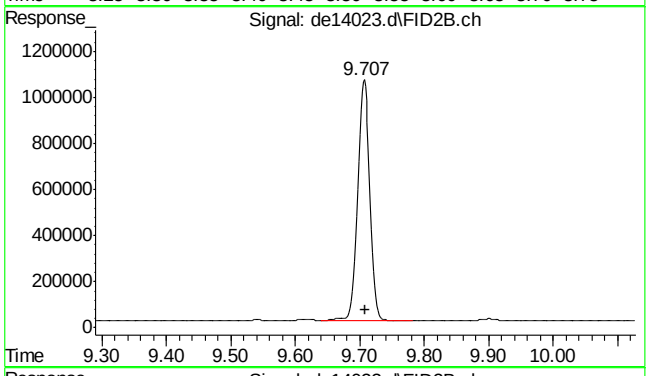
R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1256117
Conc: 17.00 µg/ml

SGS ACCUTEST MC45678



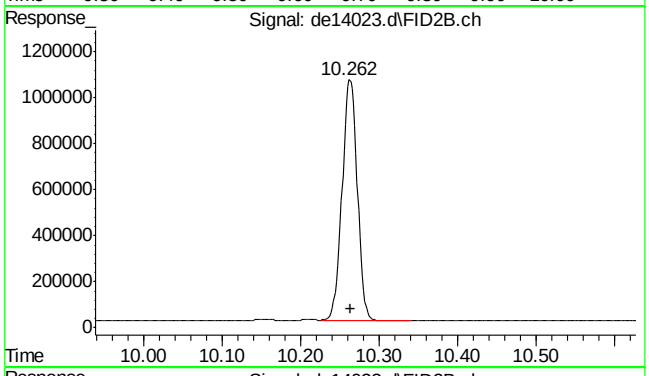
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 1303679
Conc: 17.65 µg/ml



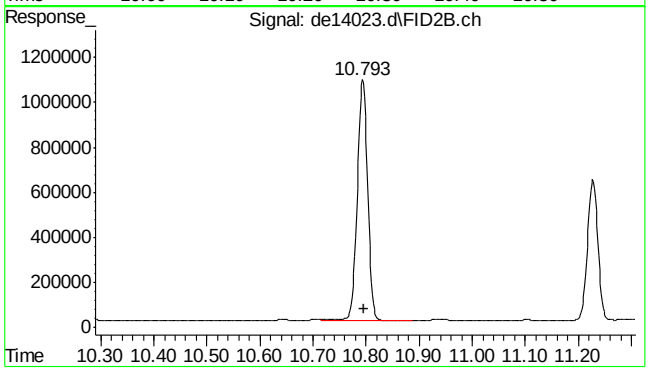
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1387432
Conc: 18.78 µg/ml



#33 c-19

R.T.: 10.262 min
Delta R.T.: -0.002 min
Response: 1406938
Conc: 21.06 µg/ml



#34 c-20

R.T.: 10.793 min
Delta R.T.: -0.002 min
Response: 1451928
Conc: 21.73 µg/ml

9.3.1

9

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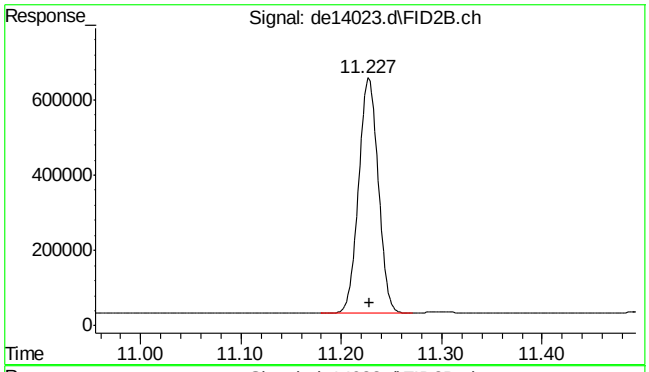
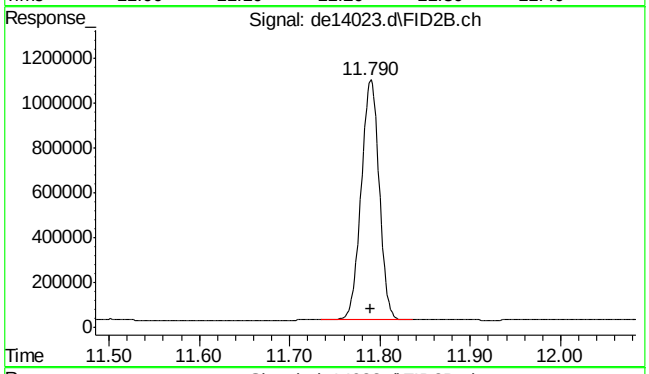


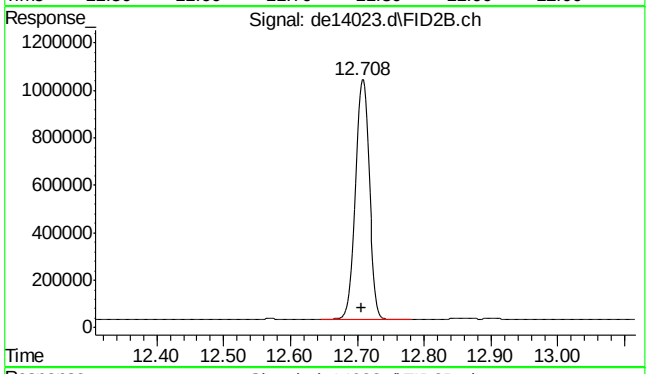
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 844194
Conc: 14.92 µg/ml



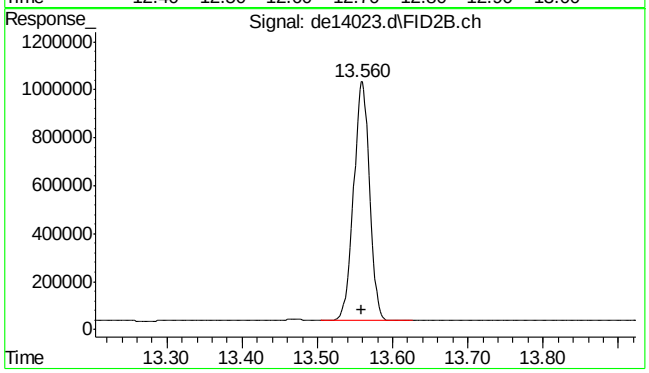
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 1490165
Conc: 22.31 µg/ml



#37 c-24

R.T.: 12.708 min
Delta R.T.: 0.002 min
Response: 1491617
Conc: 22.33 µg/ml



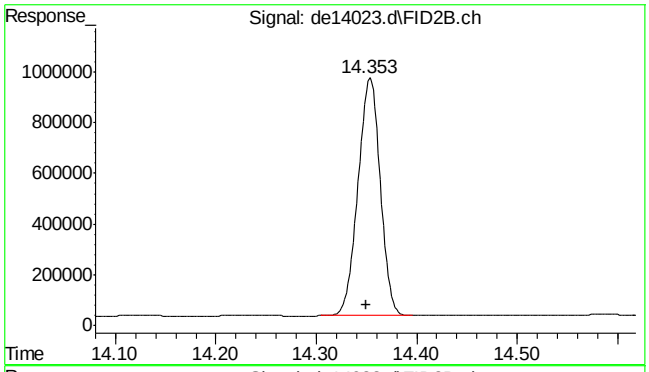
#38 c-26

R.T.: 13.560 min
Delta R.T.: 0.002 min
Response: 1465345
Conc: 21.93 µg/ml

9.3.1

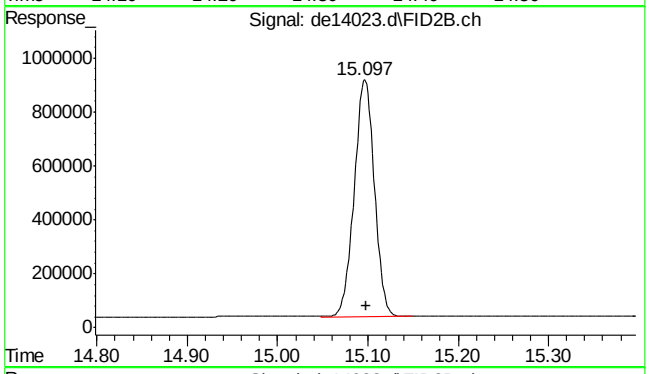
9

SGS ACCUTEST MC45678



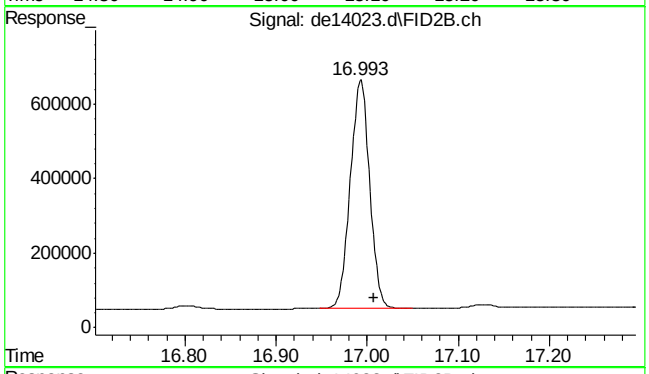
#39 c-28

R.T.: 14.353 min
Delta R.T.: 0.003 min
Response: 1438933
Conc: 21.54 µg/ml



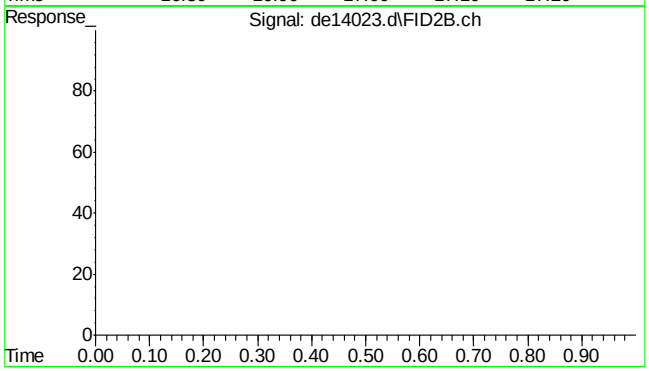
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1375768
Conc: 20.59 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 905512
Conc: 13.55 µg/ml m



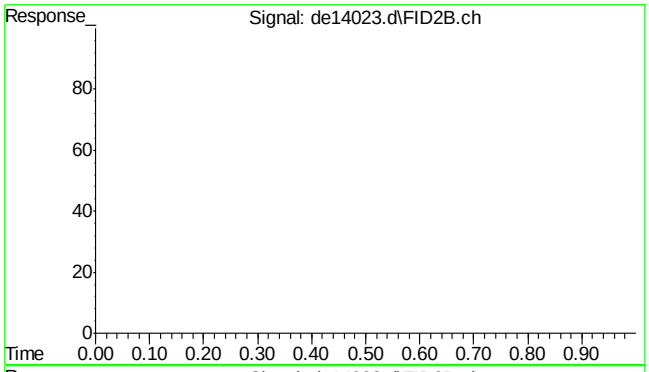
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.1

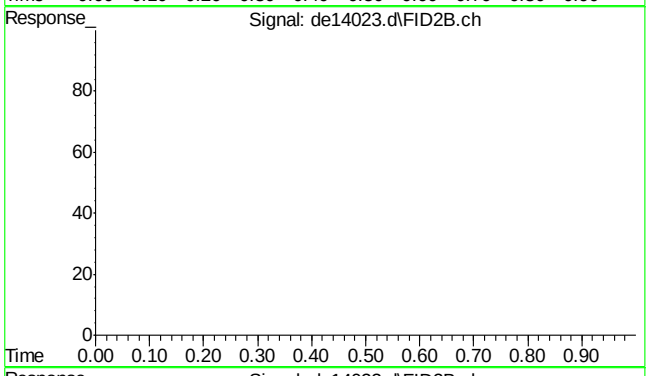
9

SGS ACCUTEST MC45678



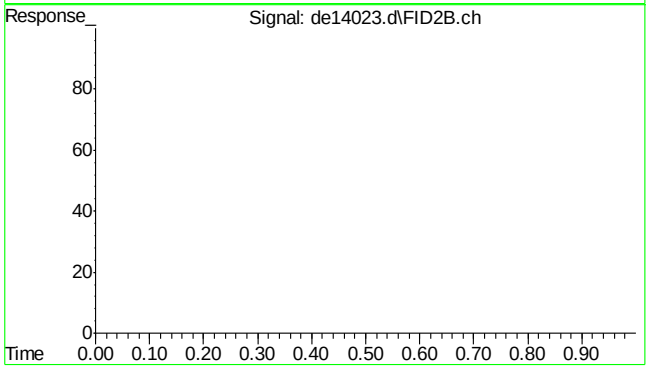
#43 bht

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.

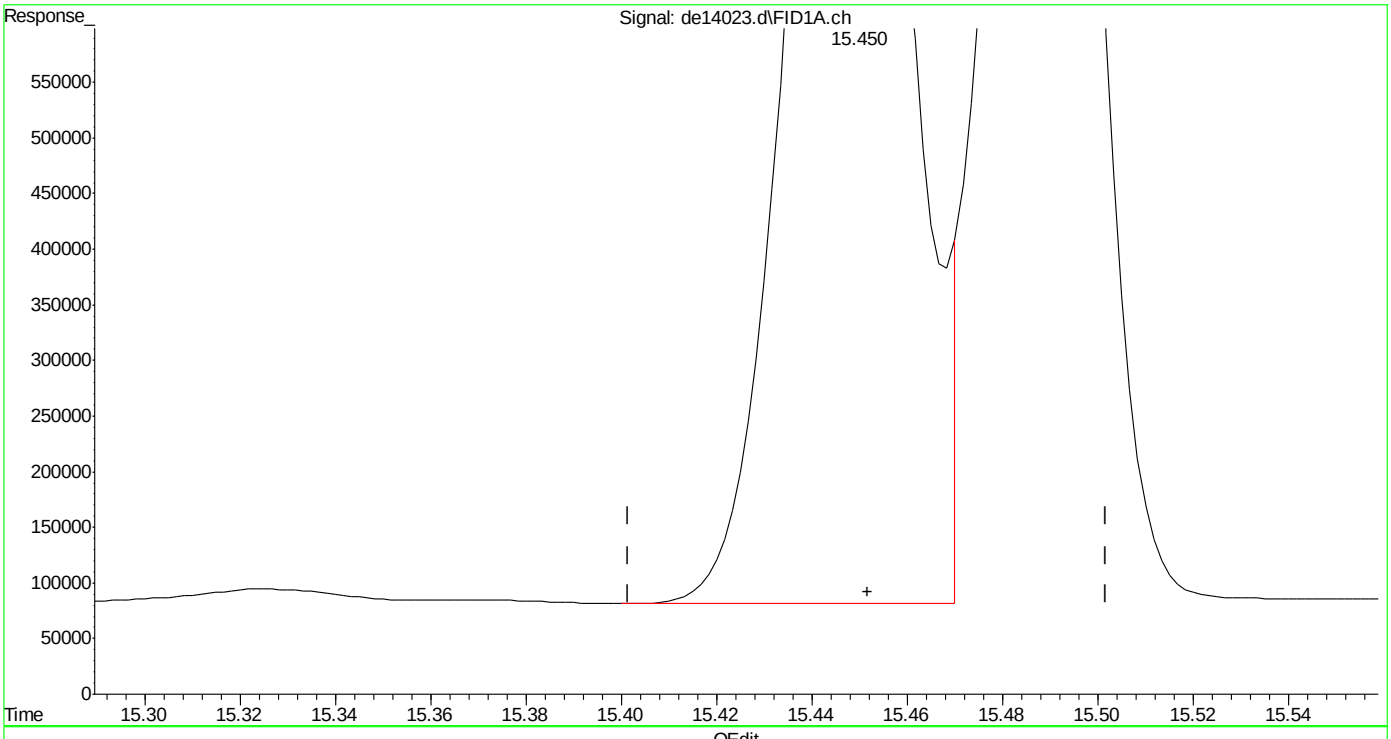
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14023.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:29 am
Operator : thomasa
Sample : op47333-bs
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 09:59:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.450min 20.845 µg/ml
response 1973160

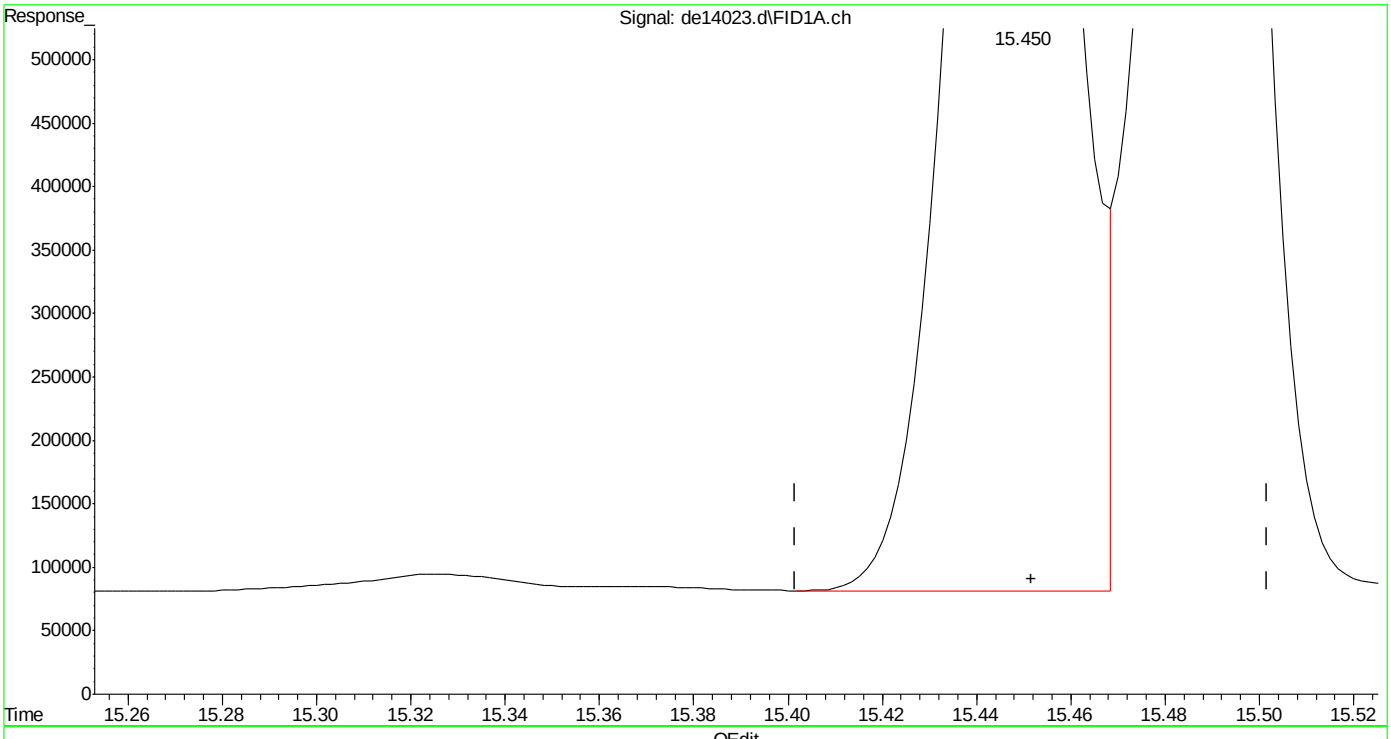
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14023.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:29 am
Operator : thomasa
Sample : op47333-bs
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 09:59:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.450min 20.531 µg/ml m
response 1943396

(+) = Expected Retention Time
EPH160506W.M Fri May 06 10:00:23 2016

SGS ACCUTEST MC45678

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14023.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  6 May 2016   9:29 am
Operator  : thomasa
Sample    : op47333-bs
Misc      : op47333,gde785,1000,,,2,,w
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 09:59:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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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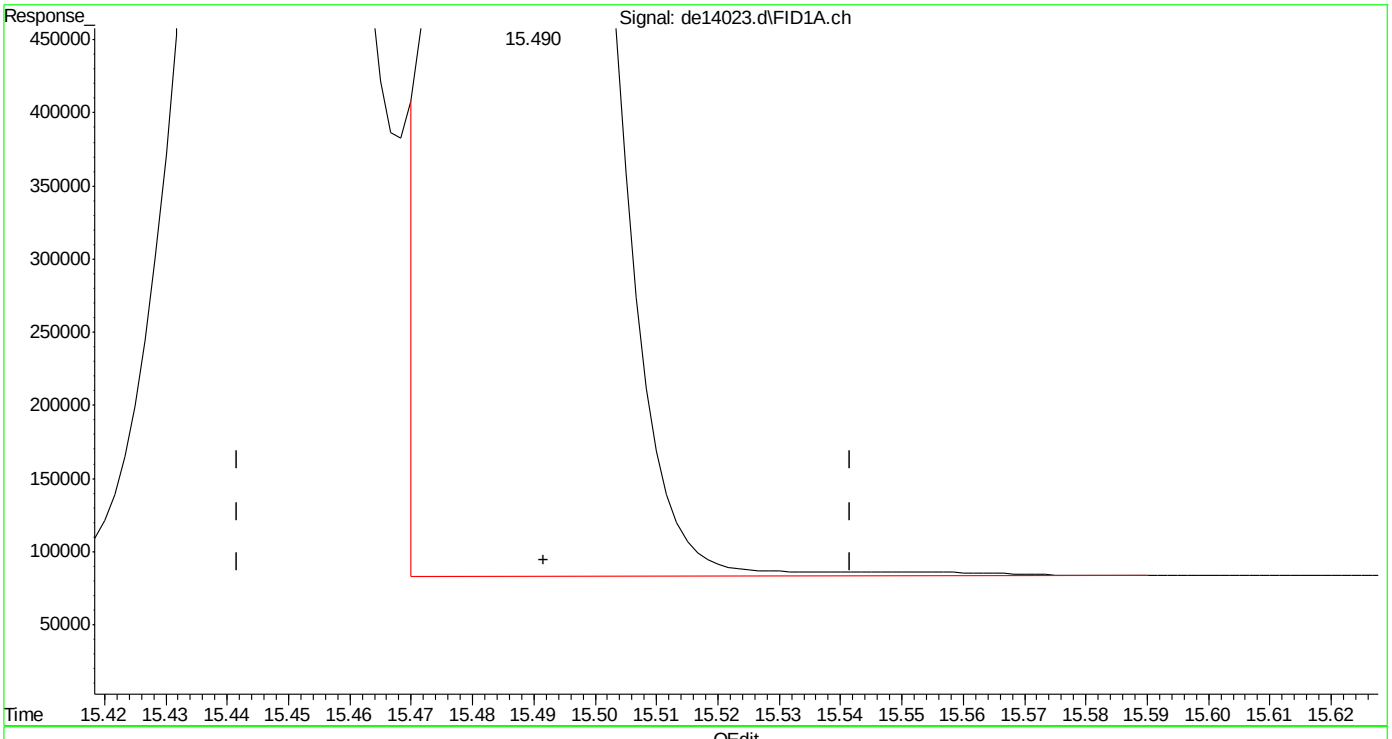


(20) dibenzo(ah)anthracene

15.490min 20.246 µg/ml

response 1850469

(+) = Expected Retention Time

EPH160506W.M Fri May 06 10:00:28 2016

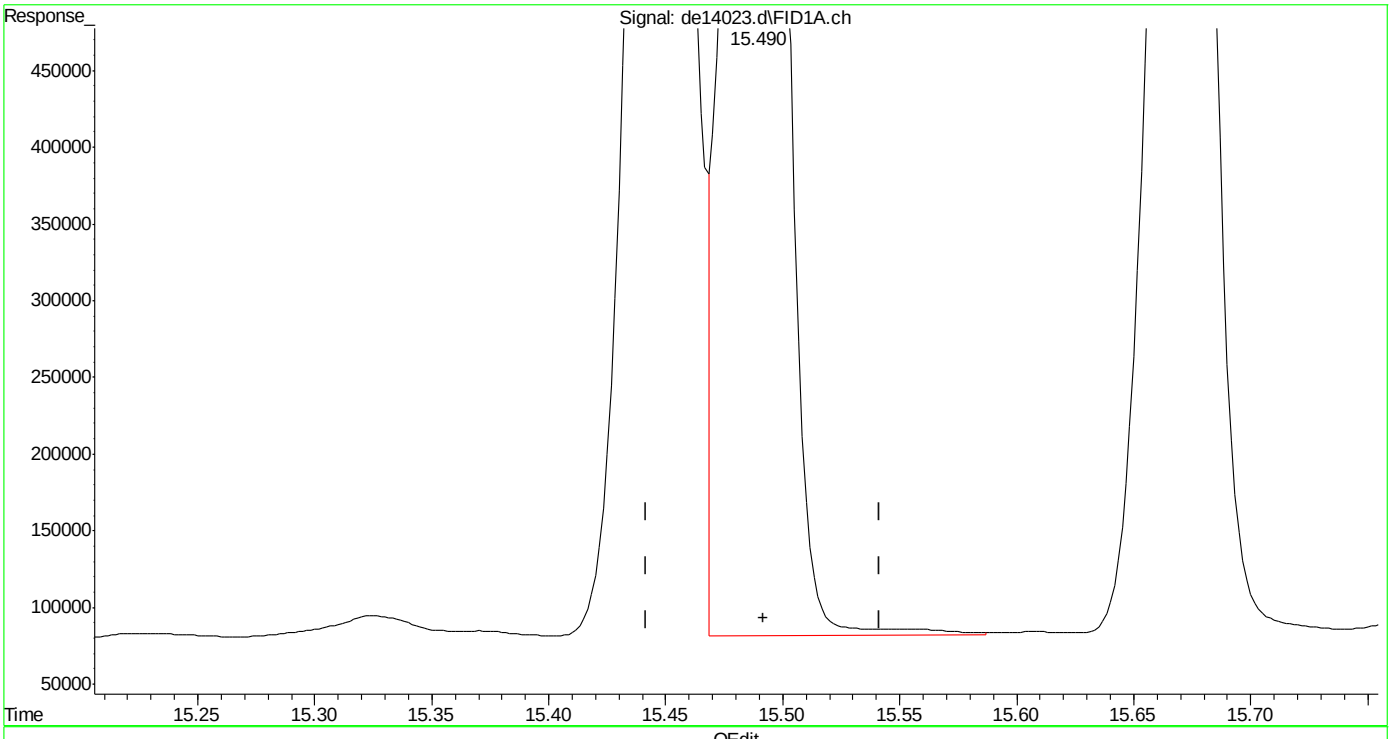
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14023.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:29 am
Operator : thomasa
Sample : op47333-bs
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 09:59:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.490min 20.690 µg/ml m
response 1891034

(+) = Expected Retention Time
EPH160506W.M Fri May 06 10:00:41 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/06/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14024.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:56 am
Operator : thomasa
Sample : op47333-bsd
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:50:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	6.697	1614701	17.507 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.54%#	
6) s 2-bromonaphthalene	7.430	1029816	16.410 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 82.05%#	
11) s o-terphenyl	9.967	1770150	17.282 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 86.41%#	
35) s 1-chlorooctadecane	11.227	1003925	17.745 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 88.73%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36033599	366.924 µg/mlm
2) naphthalene	5.248	1340938	13.001 µg/ml
3) 2-methylnaphthalene	6.145	1485678	14.497 µg/ml
5) acenaphthylene	7.260	1610584	16.010 µg/ml
7) acenaphthene	7.500	1855714	17.951 µg/ml
8) fluorene	8.150	1770631	17.433 µg/ml
9) phenanthrene	9.330	1857597	18.254 µg/ml
10) anthracene	9.390	2031792	20.945 µg/ml
12) fluoranthene	10.840	2064147	20.654 µg/ml
13) pyrene	11.095	2087178	20.571 µg/ml
14) benzo(a)anthracene	12.663	2086939	21.587 µg/ml
15) chrysene	12.710	2103513	21.610 µg/ml
16) benzo(B)fluoranthene	13.965	2027483	20.479 µg/ml
17) benzo(k)fluoranthene	13.990	2176036	23.026 µg/ml
18) benzo(a)pyrene	14.300	2085836	22.565 µg/ml
19) indeno(1,2,3-cd)pyrene	15.445	2116457	22.359 µg/mlm
20) dibenzo(ah)anthracene	15.485	2053948	22.472 µg/mlm
21) benzo(ghi)perylene	15.668	2097425	22.768 µg/ml
25) h c-9	2.648	648373	8.777 µg/mlm
26) h c-10	3.815	849795	11.504 µg/ml
27) naphthalene #2	5.488	4258	0.053 µg/ml
28) c-12	5.665	1173169	15.881 µg/ml
29) 2-methylnaphthalene #2	6.383	4201	0.052 µg/ml
30) c-14	7.183	1352572	18.310 µg/ml
31) c-16	8.512	1437185	19.455 µg/ml
32) c-18	9.707	1582746	21.425 µg/ml
33) c-19	10.262	1596201	23.893 µg/ml
34) c-20	10.792	1629521	24.392 µg/ml
36) c-22	11.788	1659602	24.842 µg/ml
37) c-24	12.707	1646378	24.644 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14024.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:56 am
Operator : thomasa
Sample : op47333-bsd
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:50:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	1613975	24.159	µg/ml
39)		c-28	14.350	1600550	23.958	µg/ml
40)	h	c-30	15.098	1647006	24.653	µg/ml
41)	h	c-36	17.008	1705071	25.523	µg/mlm

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

9.3.2

9

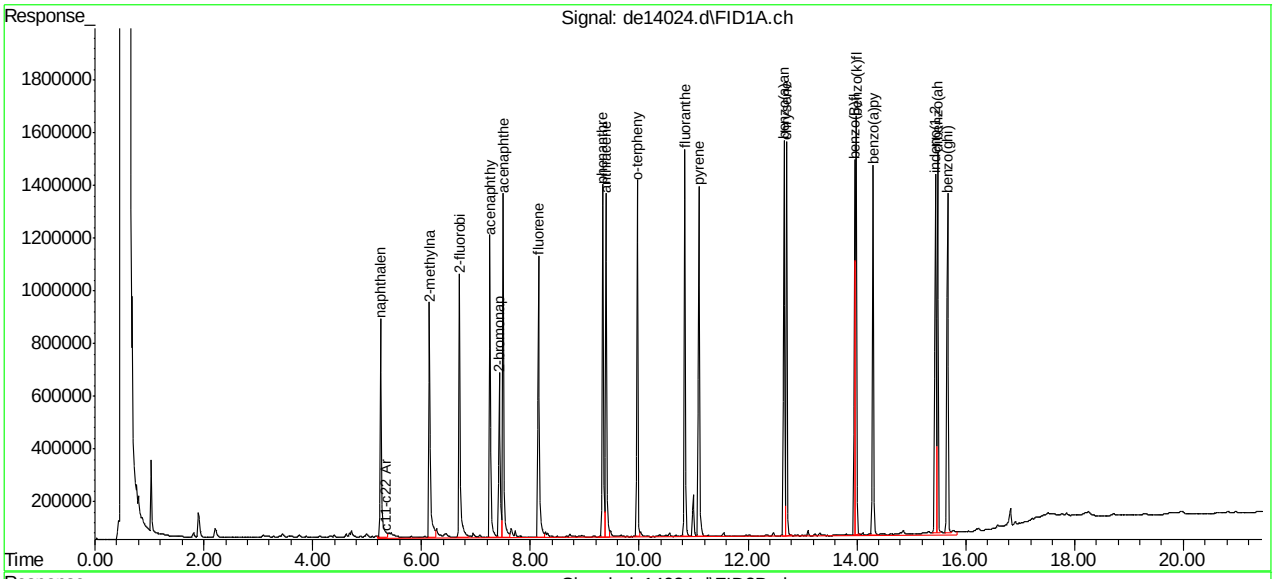
SGS ACCUTEST MC45678

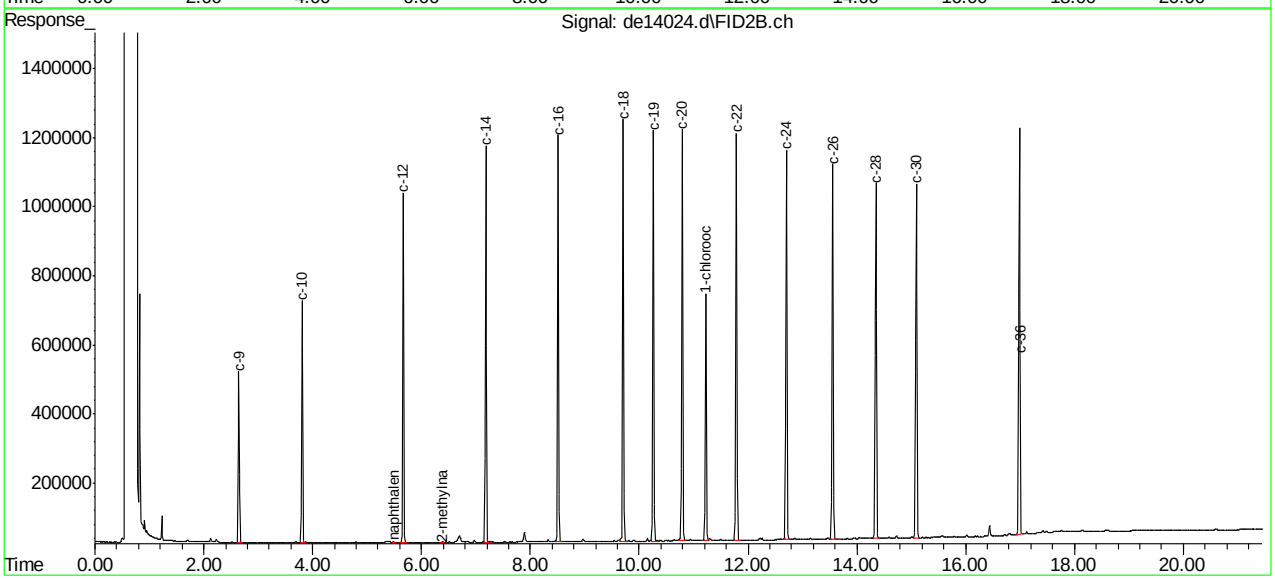
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14024.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:56 am
Operator : thomasa
Sample : op47333-bsd
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

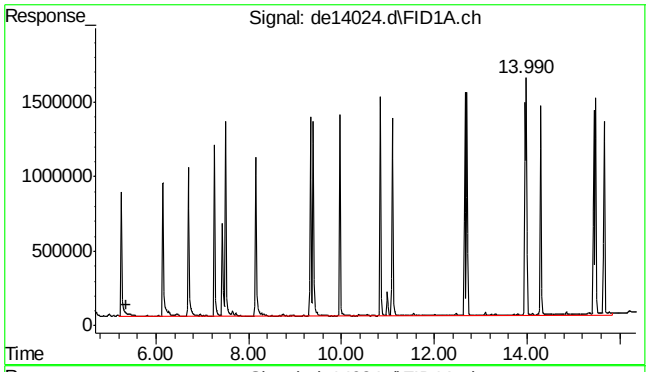
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:50:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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



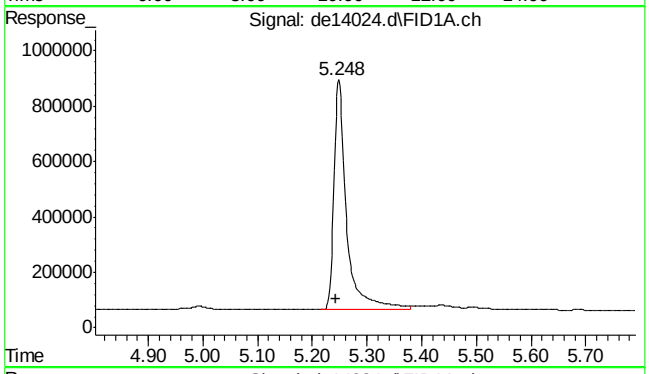


SGS ACCUTEST MC45678



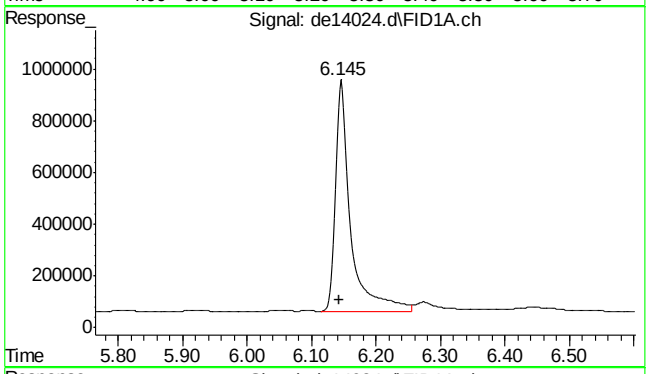
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36033599
Conc: 366.92 µg/ml m



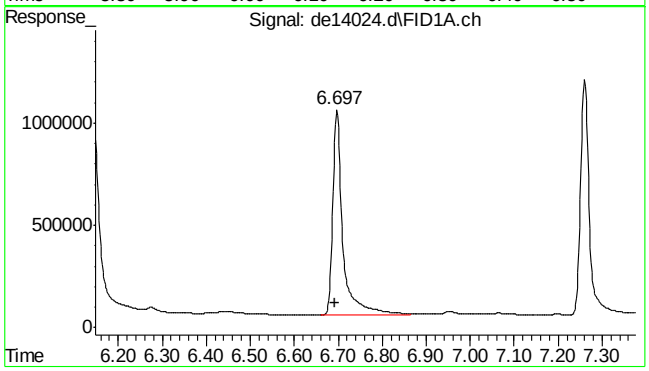
#2 naphthalene

R.T.: 5.248 min
Delta R.T.: 0.005 min
Response: 1340938
Conc: 13.00 µg/ml



#3 2-methylnaphthalene

R.T.: 6.145 min
Delta R.T.: 0.002 min
Response: 1485678
Conc: 14.50 µg/ml



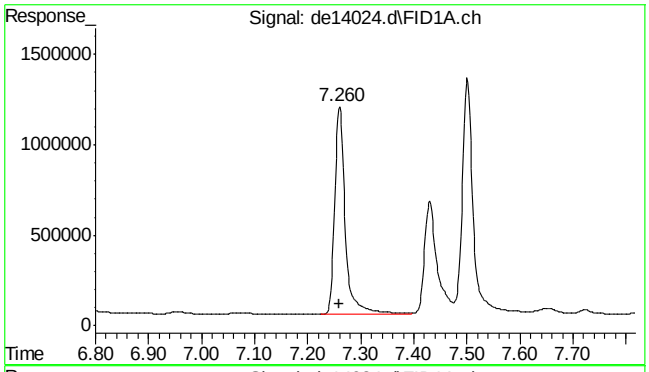
#4 2-fluorobiphenyl

R.T.: 6.697 min
Delta R.T.: 0.003 min
Response: 1614701
Conc: 17.51 µg/ml

9.3.2

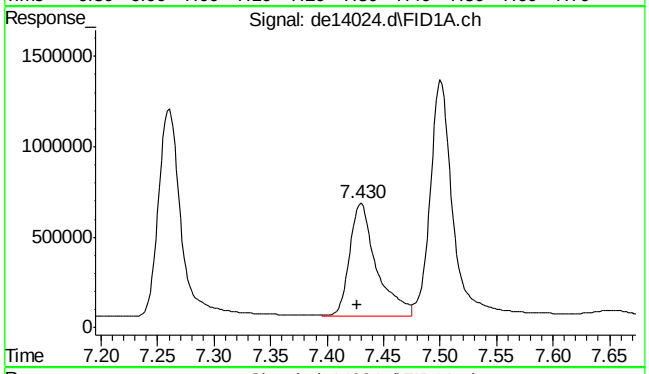
9

SGS ACCUTEST MC45678



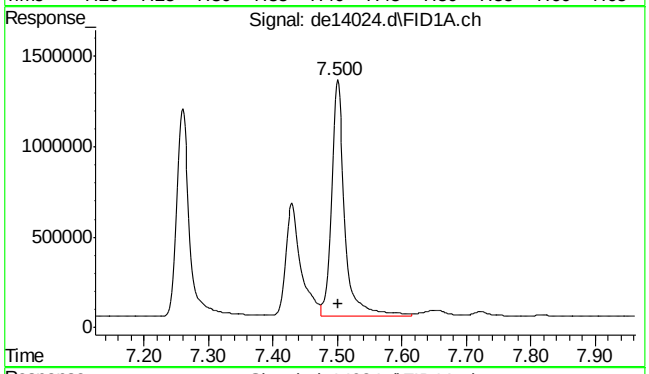
#5 acenaphthylene

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 1610584
Conc: 16.01 µg/ml



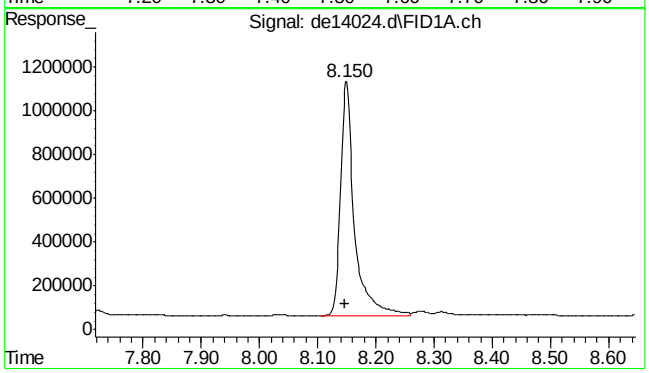
#6 2-bromonaphthalene

R.T.: 7.430 min
Delta R.T.: 0.003 min
Response: 1029816
Conc: 16.41 µg/ml



#7 acenaphthene

R.T.: 7.500 min
Delta R.T.: -0.002 min
Response: 1855714
Conc: 17.95 µg/ml



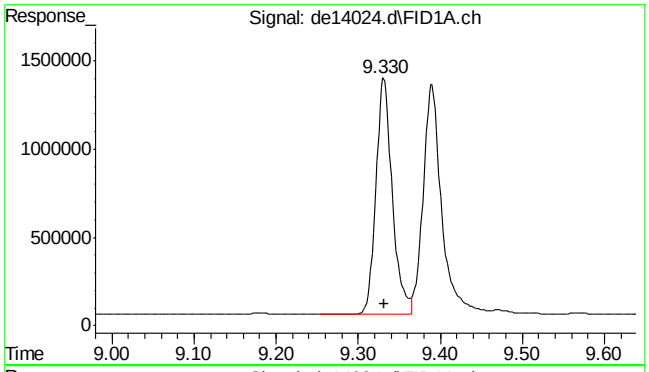
#8 fluorene

R.T.: 8.150 min
Delta R.T.: 0.003 min
Response: 1770631
Conc: 17.43 µg/ml

9.3.2

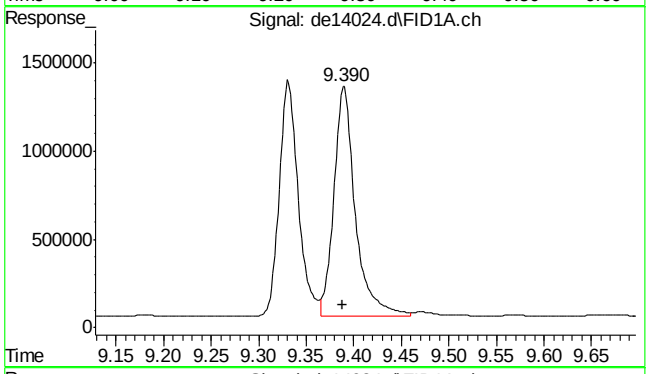
9

SGS ACCUTEST MC45678



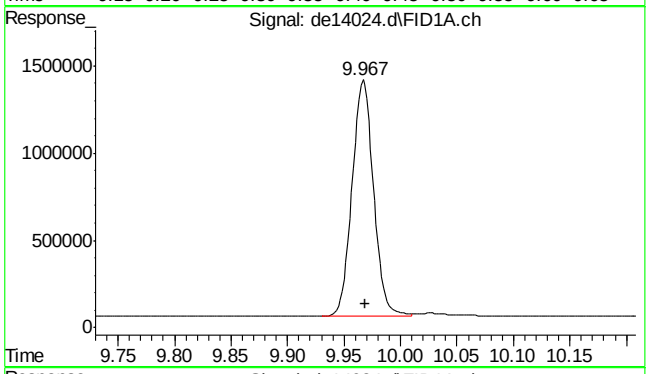
#9 phenanthrene

R.T.: 9.330 min
Delta R.T.: -0.002 min
Response: 1857597
Conc: 18.25 µg/ml



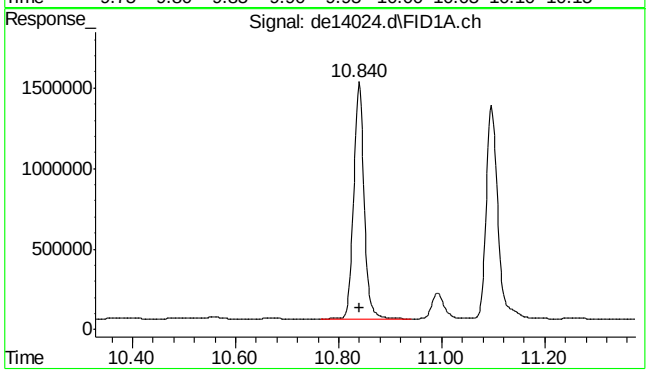
#10 anthracene

R.T.: 9.390 min
Delta R.T.: 0.002 min
Response: 2031792
Conc: 20.94 µg/ml



#11 o-terphenyl

R.T.: 9.967 min
Delta R.T.: -0.002 min
Response: 1770150
Conc: 17.28 µg/ml



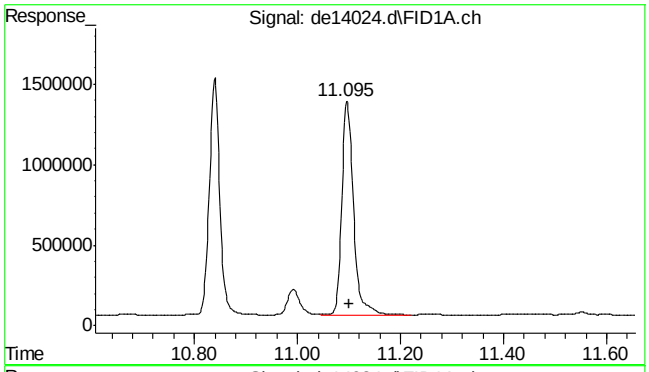
#12 fluoranthene

R.T.: 10.840 min
Delta R.T.: 0.000 min
Response: 2064147
Conc: 20.65 µg/ml

9.3.2

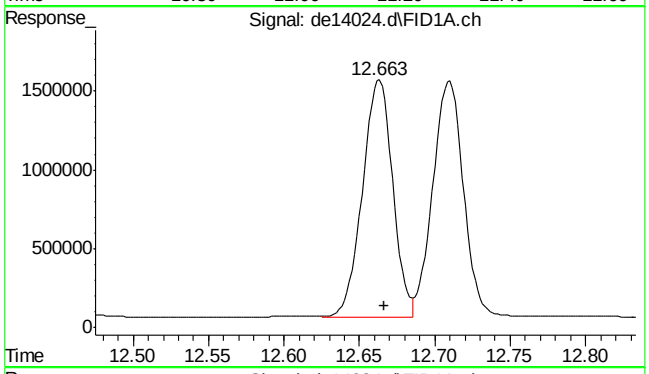
9

SGS ACCUTEST MC45678



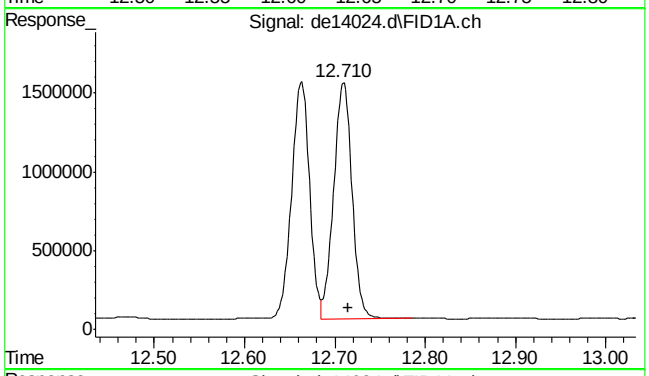
#13 pyrene

R.T.: 11.095 min
Delta R.T.: -0.005 min
Response: 2087178
Conc: 20.57 µg/ml



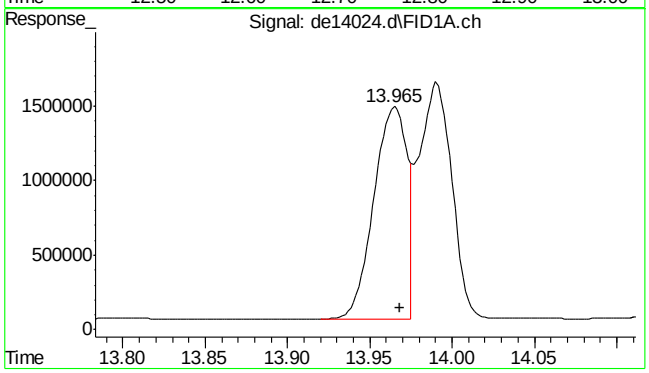
#14 benzo(a)anthracene

R.T.: 12.663 min
Delta R.T.: -0.003 min
Response: 2086939
Conc: 21.59 µg/ml



#15 chrysene

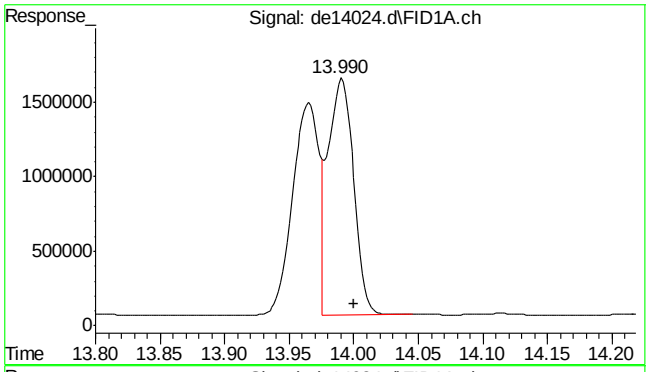
R.T.: 12.710 min
Delta R.T.: -0.005 min
Response: 2103513
Conc: 21.61 µg/ml



#16 benzo(B)fluoranthene

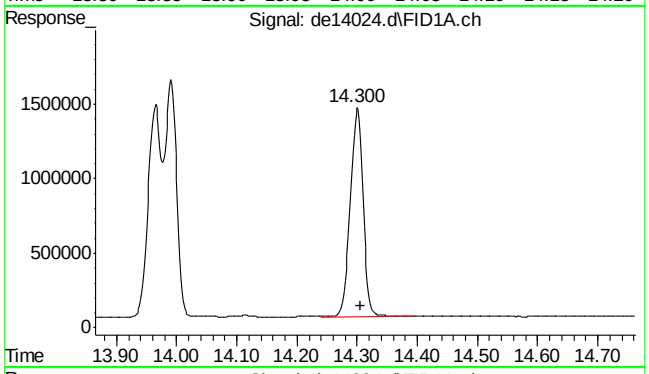
R.T.: 13.965 min
Delta R.T.: -0.003 min
Response: 2027483
Conc: 20.48 µg/ml

SGS ACCUTEST MC45678



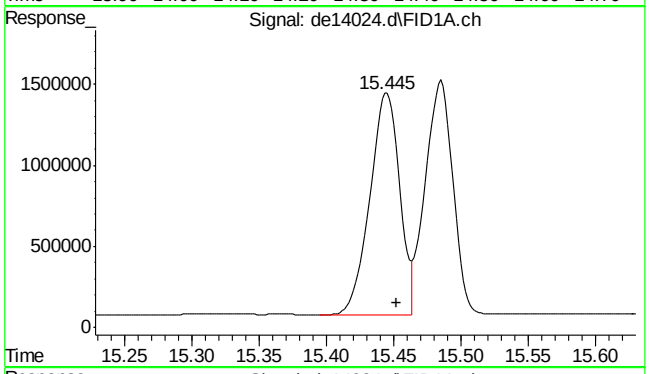
#17 benzo(k)fluoranthene

R.T.: 13.990 min
Delta R.T.: -0.010 min
Response: 2176036
Conc: 23.03 µg/ml



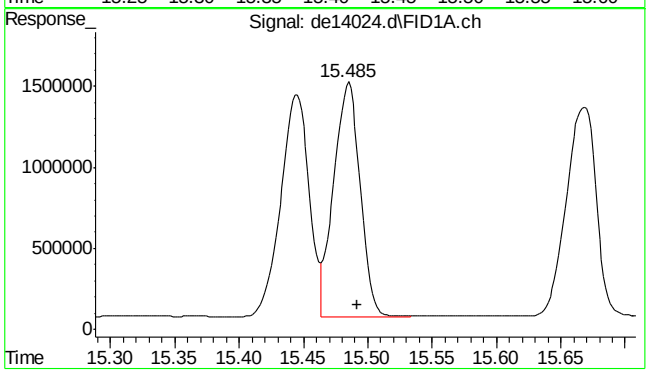
#18 benzo(a)pyrene

R.T.: 14.300 min
Delta R.T.: -0.005 min
Response: 2085836
Conc: 22.57 µg/ml



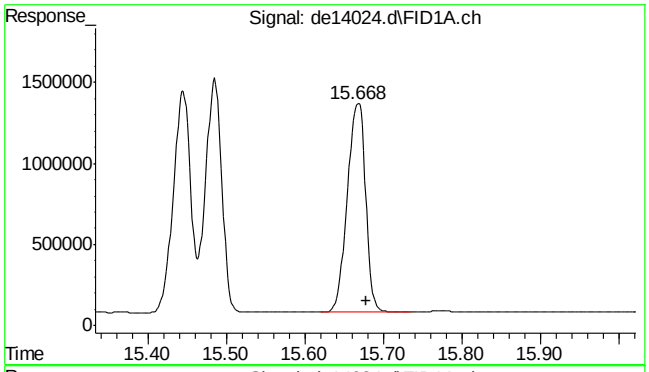
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.445 min
Delta R.T.: -0.007 min
Response: 2116457
Conc: 22.36 µg/ml m



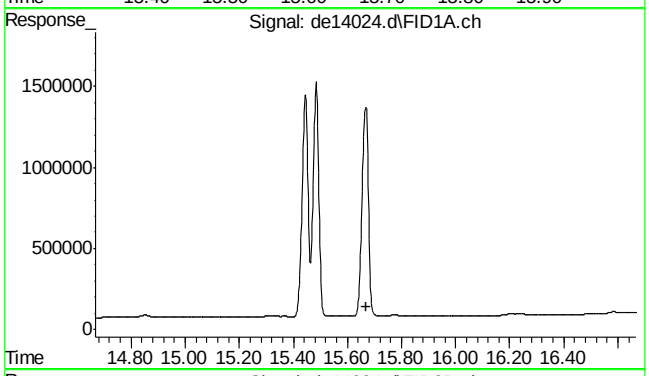
#20 dibenzo(ah)anthracene

R.T.: 15.485 min
Delta R.T.: -0.007 min
Response: 2053948
Conc: 22.47 µg/ml m



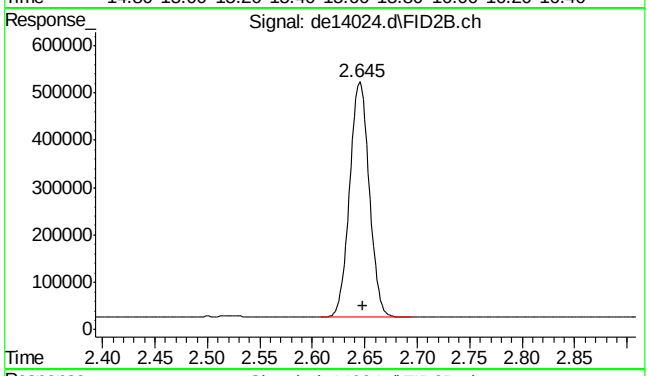
#21 benzo(ghi)perylene

R.T.: 15.668 min
Delta R.T.: -0.010 min
Response: 2097425
Conc: 22.77 µg/ml



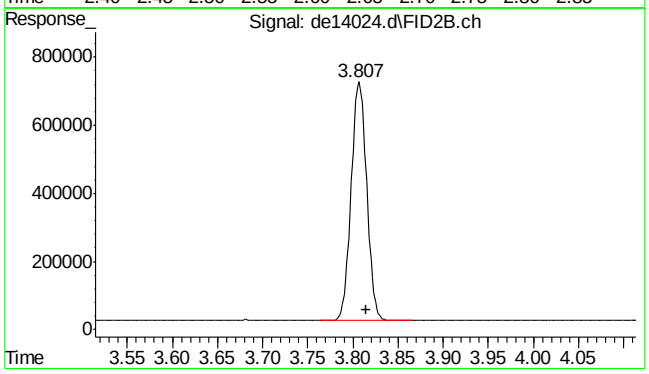
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

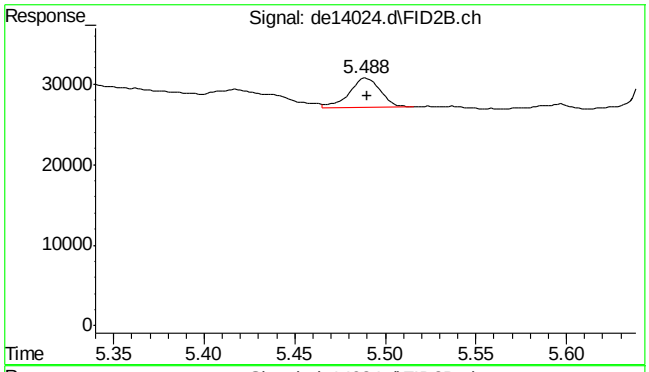
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 648373
Conc: 8.78 µg/ml m



#26 c-10

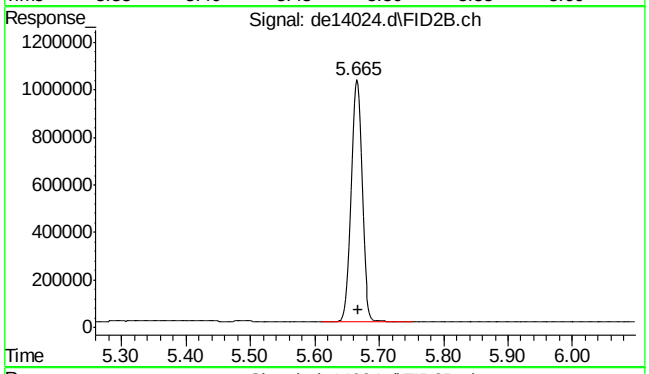
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 849795
Conc: 11.50 µg/ml

SGS ACCUTEST MC45678



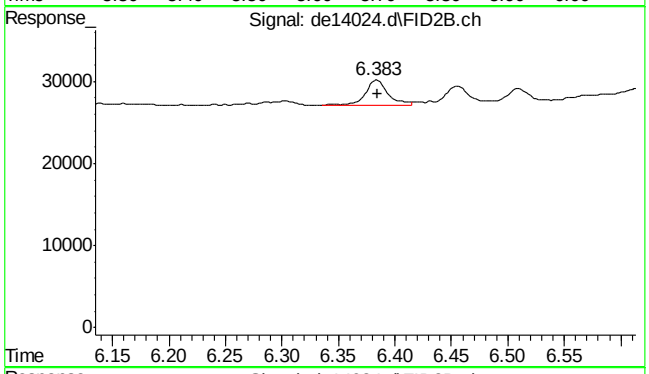
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: -0.002 min
Response: 4258
Conc: 0.05 µg/ml



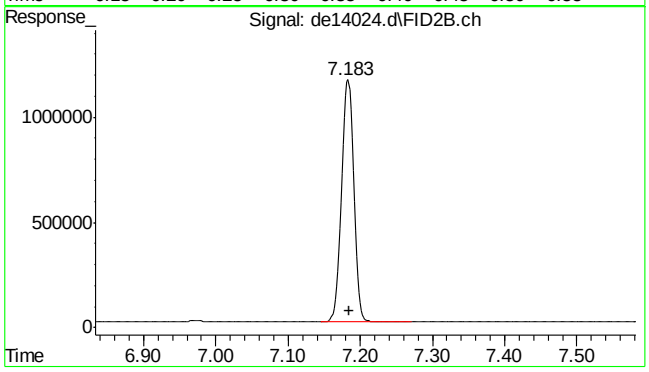
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 1173169
Conc: 15.88 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 4201
Conc: 0.05 µg/ml



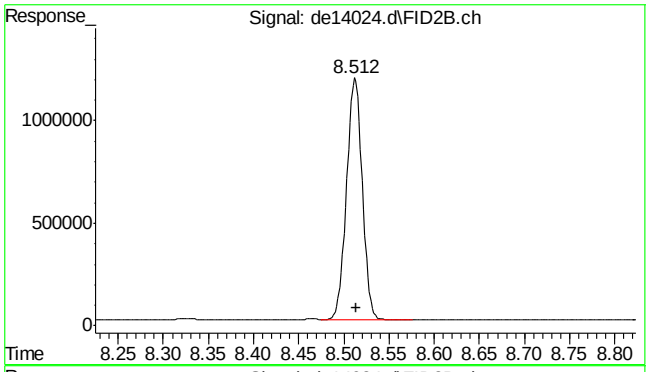
#30 c-14

R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1352572
Conc: 18.31 µg/ml

9.3.2

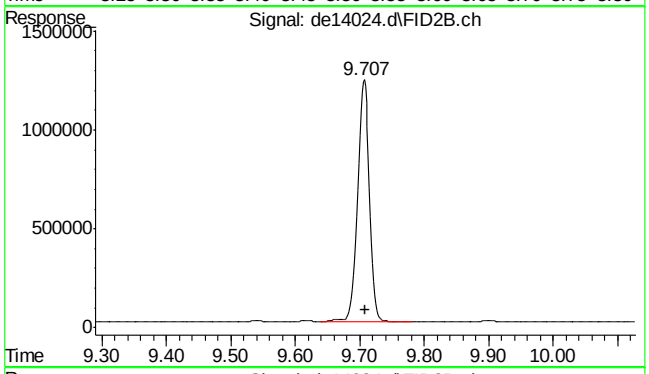
9

SGS ACCUTEST MC45678



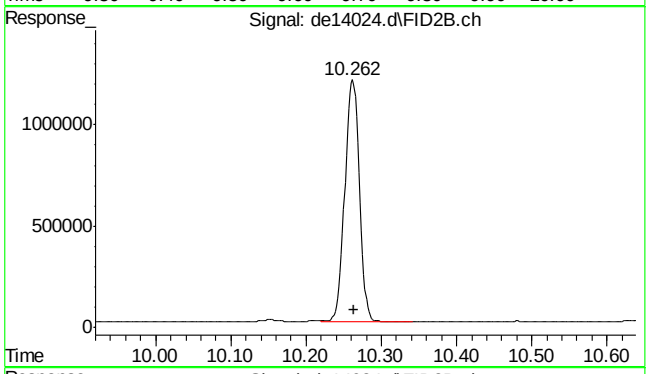
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 1437185
Conc: 19.46 µg/ml



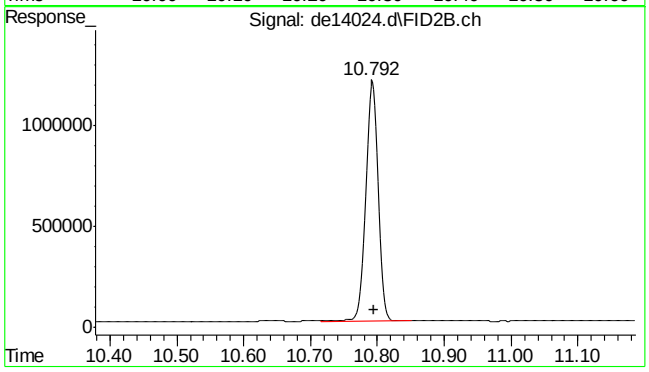
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1582746
Conc: 21.43 µg/ml



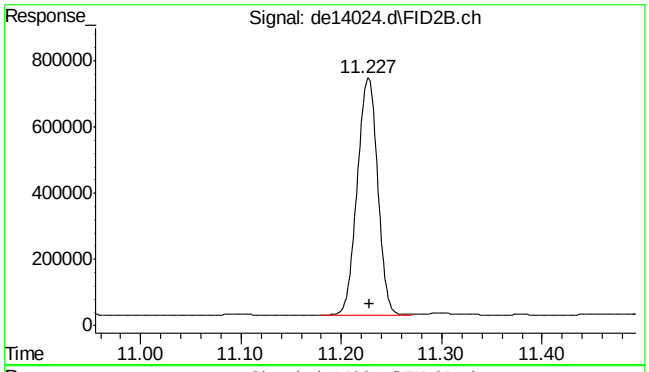
#33 c-19

R.T.: 10.262 min
Delta R.T.: -0.002 min
Response: 1596201
Conc: 23.89 µg/ml



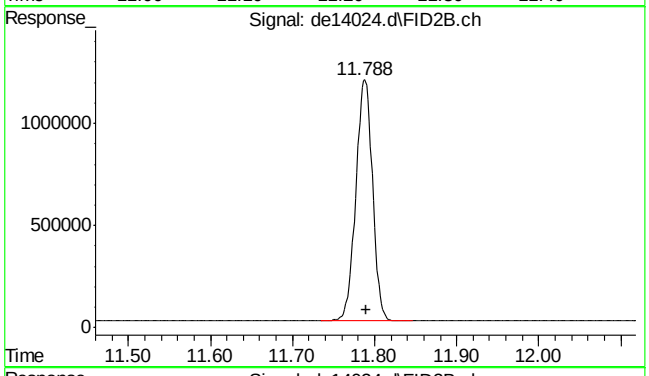
#34 c-20

R.T.: 10.792 min
Delta R.T.: -0.003 min
Response: 1629521
Conc: 24.39 µg/ml



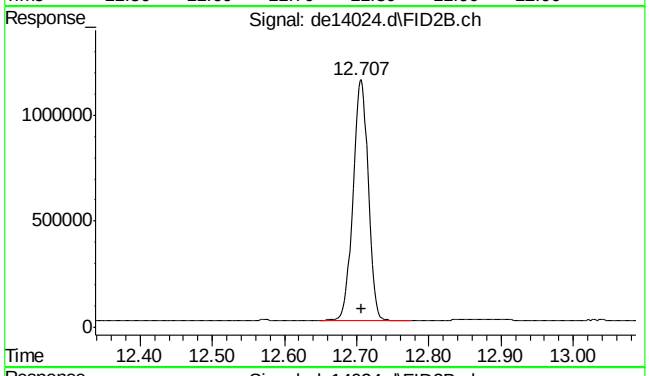
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 1003925
Conc: 17.75 µg/ml



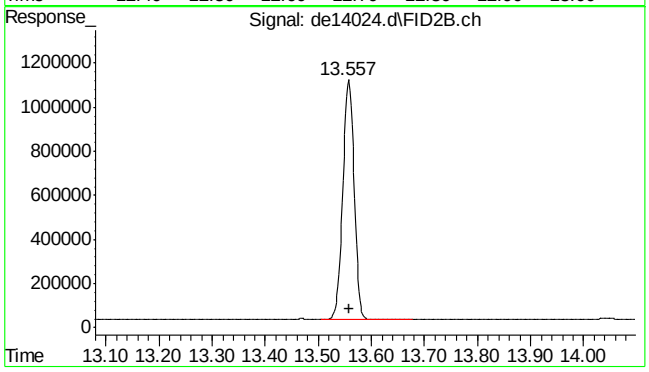
#36 c-22

R.T.: 11.788 min
Delta R.T.: -0.002 min
Response: 1659602
Conc: 24.84 µg/ml



#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 1646378
Conc: 24.64 µg/ml



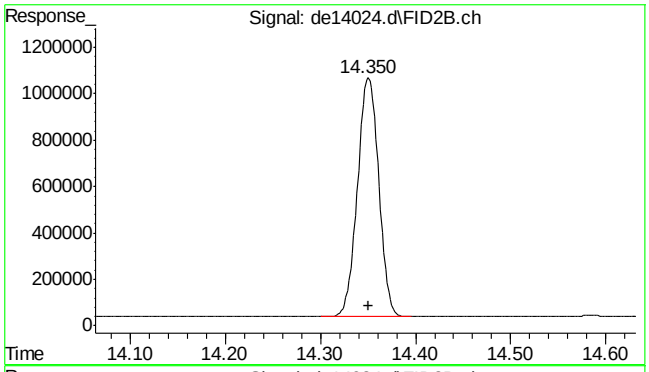
#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1613975
Conc: 24.16 µg/ml

9.3.2

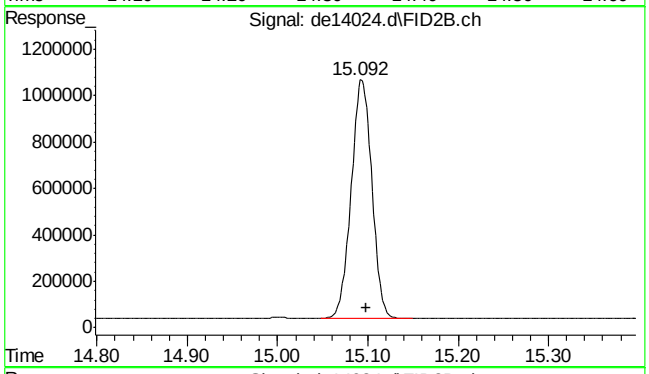
9

SGS ACCUTEST MC45678



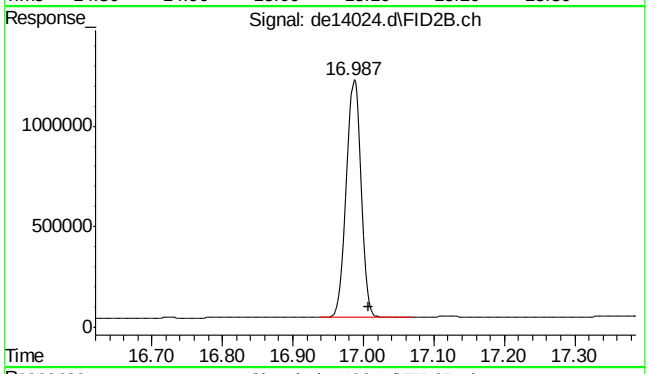
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 1600550
Conc: 23.96 µg/ml



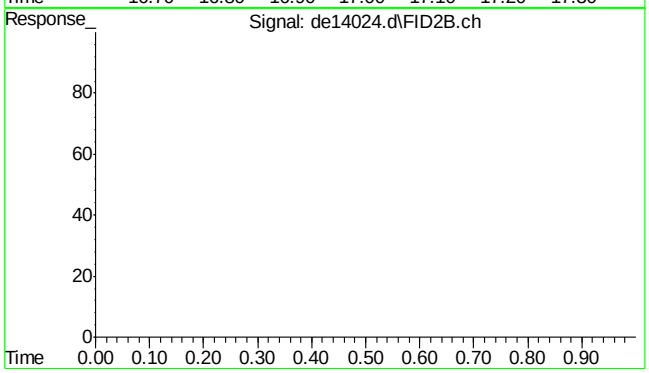
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1647006
Conc: 24.65 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1705071
Conc: 25.52 µg/ml m



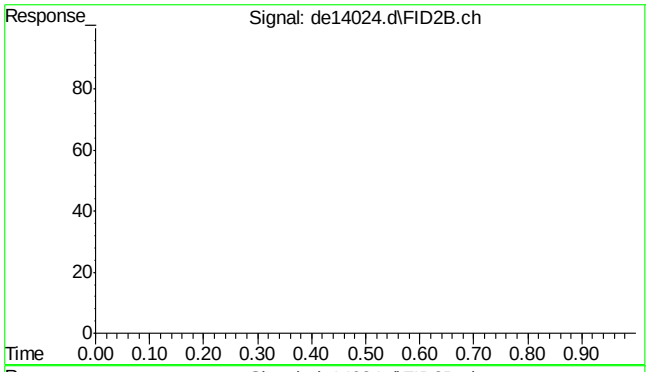
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.2

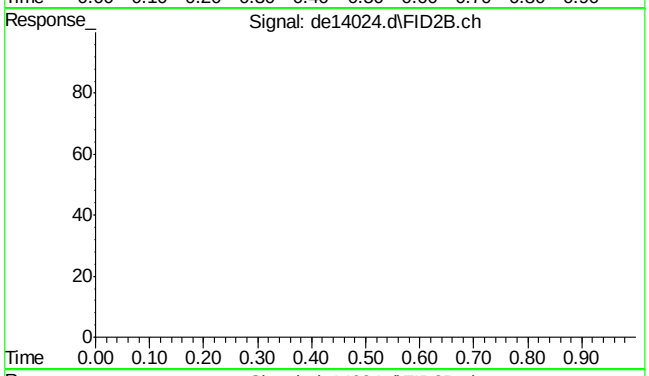
9

SGS ACCUTEST MC45678



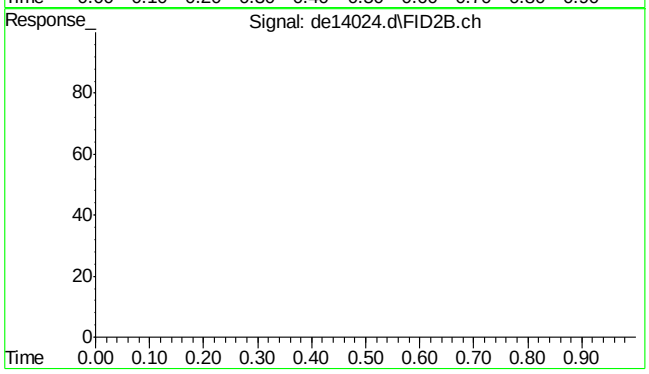
#43 bht

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.

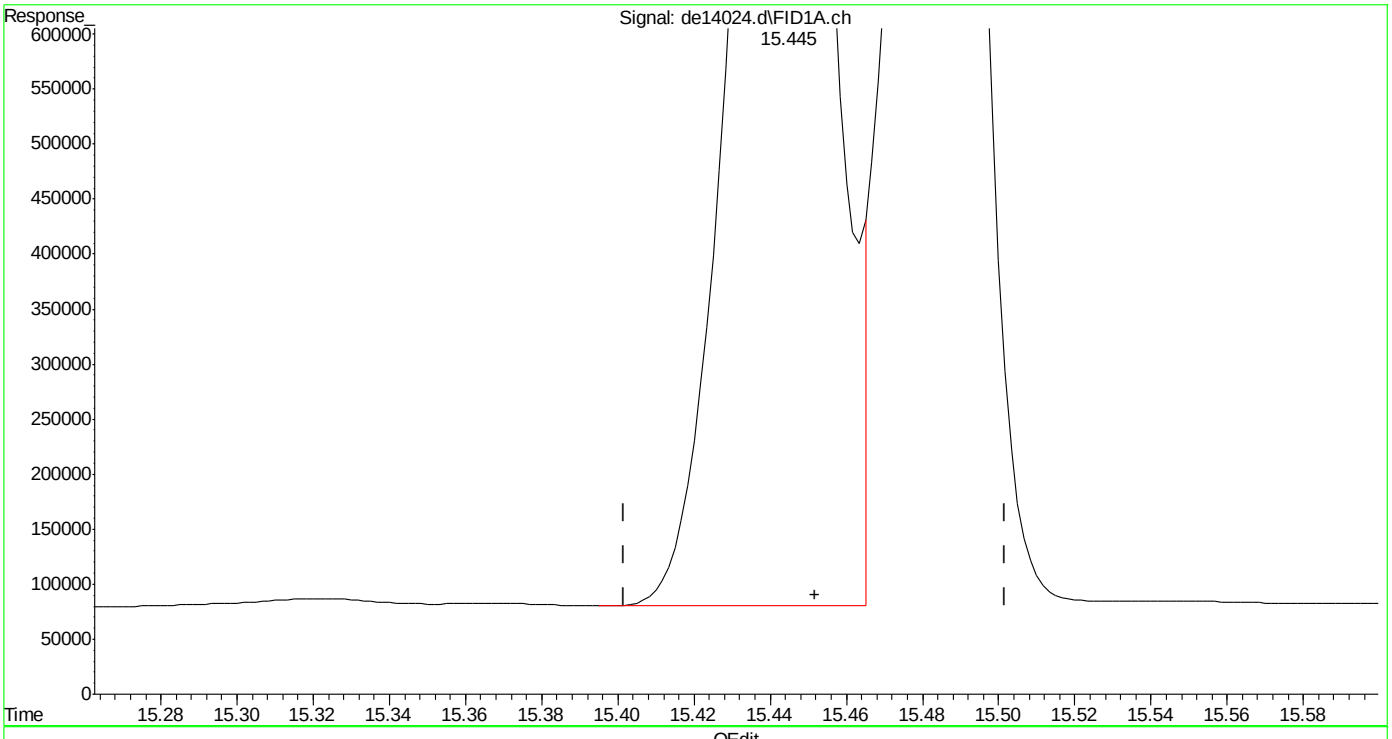
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14024.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:56 am
Operator : thomasa
Sample : op47333-bsd
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:48:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.445min 22.710 µg/ml
response 2149708

(+) = Expected Retention Time

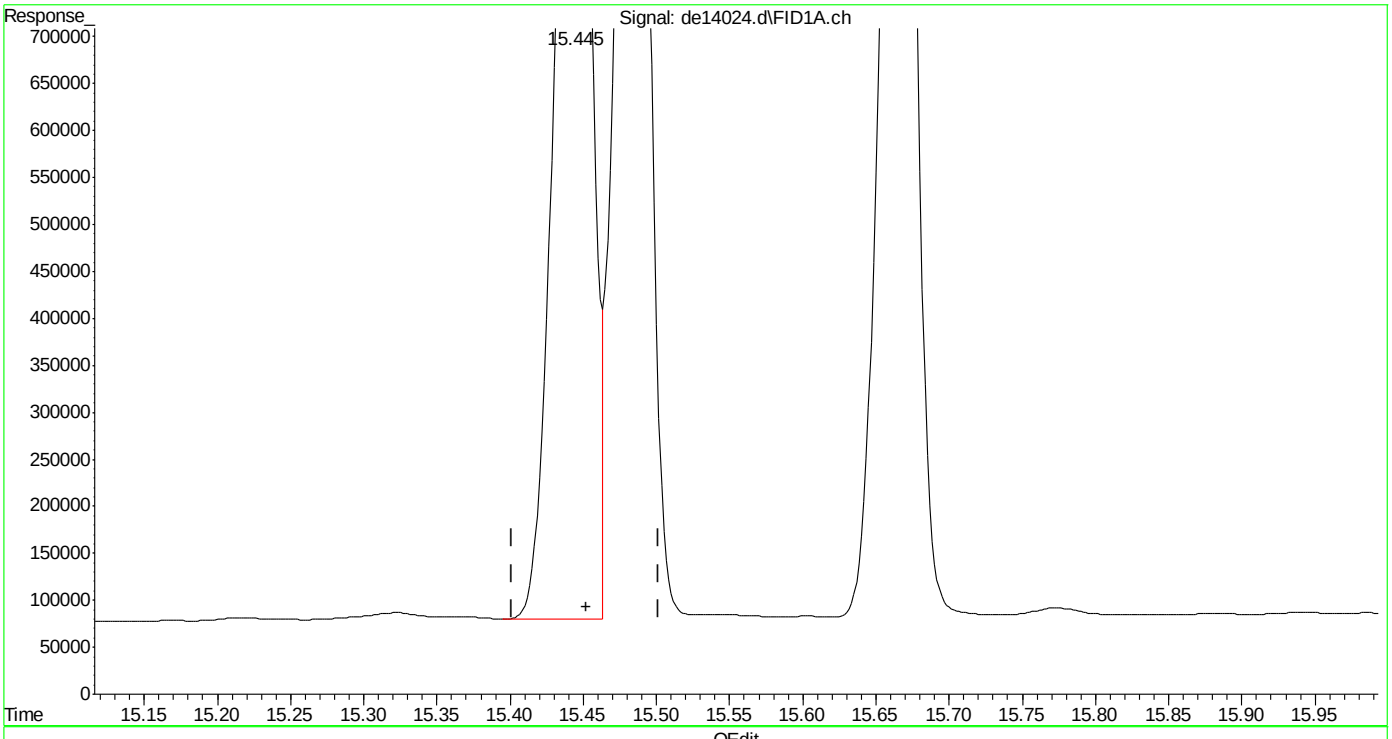
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14024.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  6 May 2016   9:56 am
Operator  : thomasa
Sample    : op47333-bsd
Misc      : op47333,gde785,1000,,,2,,w
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:48:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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

15.445min 22.359 µg/ml m

response 2116457

(+) = Expected Retention Time

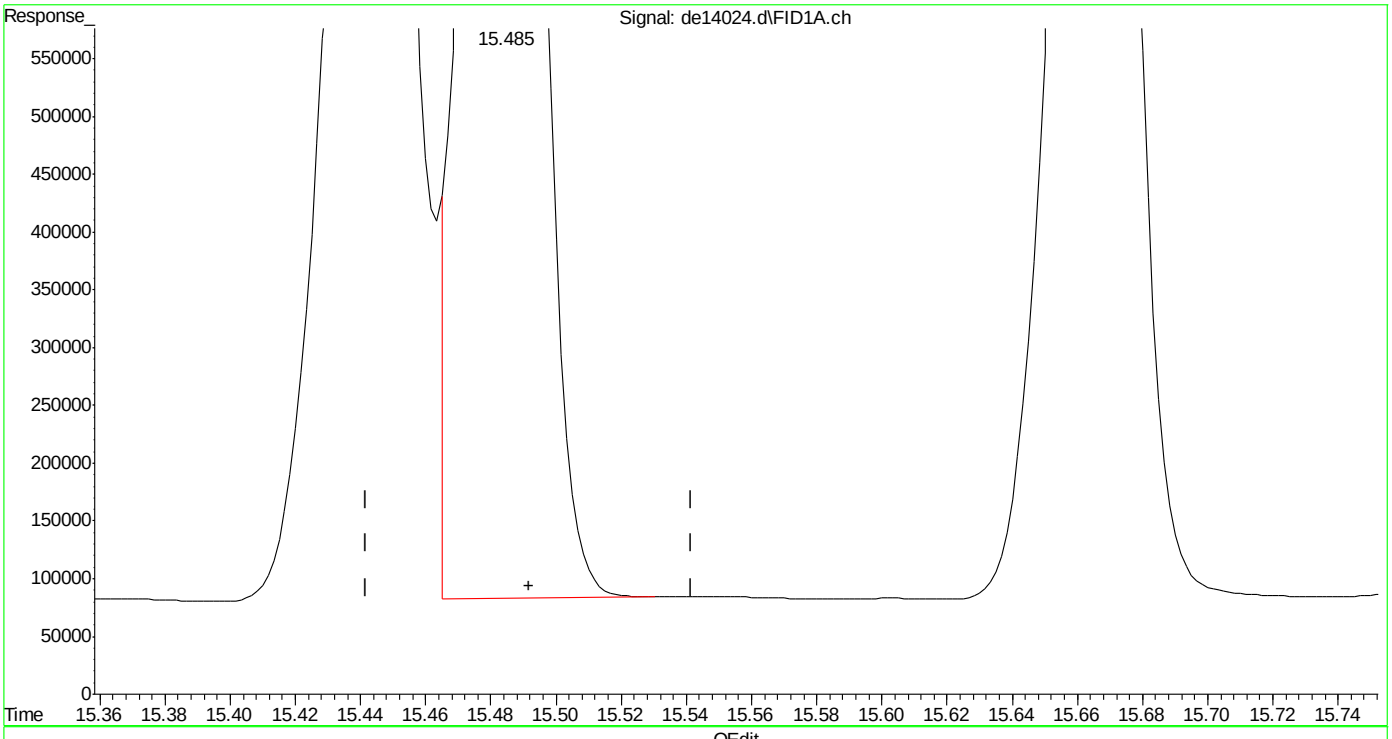
EPH160506W.M Fri May 06 10:49:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14024.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:56 am
Operator : thomasa
Sample : op47333-bsd
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:48:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.485min 21.963 µg/ml
response 2007406

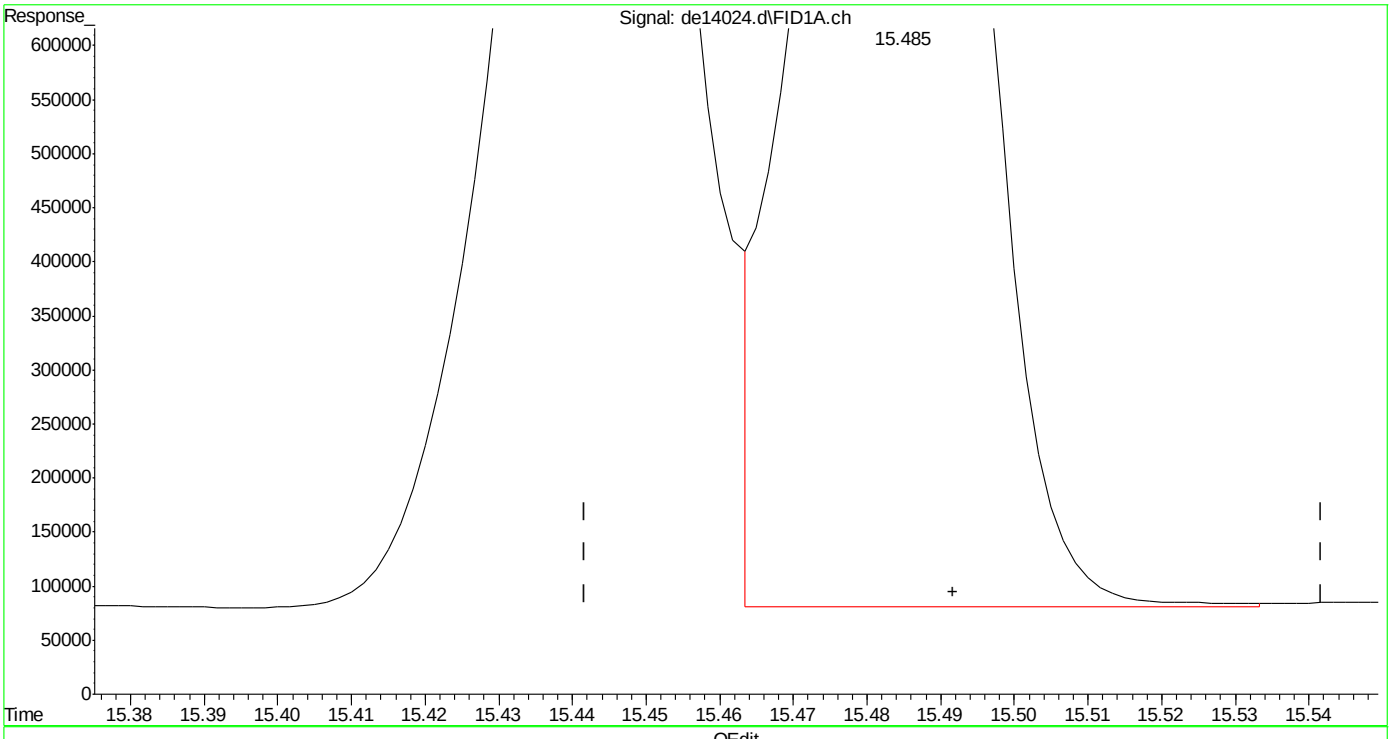
(+) = Expected Retention Time
EPH160506W.M Fri May 06 10:49:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14024.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 9:56 am
Operator : thomasa
Sample : op47333-bsd
Misc : op47333,gde785,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 10:48:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.485min 22.472 µg/ml m
response 2053948

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/18/16 15:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14107.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 10:37 am
Operator : thomasa
Sample : op47484-bs
Misc : op47484,gde792,11.80,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:08:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1488330	16.137 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 80.69%#
6) s	2-bromonaphthalene	7.333	964488	15.369 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 76.84%#
11) s	o-terphenyl	9.870	1616574	15.783 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 78.92%#
35) s	1-chlorooctadecane	11.225	733788	12.970 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 64.85%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.203	33797848	344.157 µg/mlm
2)	naphthalene	5.155	1485974	14.407 µg/ml
3)	2-methylnaphthalene	6.055	1506887	14.704 µg/ml
5)	acenaphthylene	7.165	1542984	15.338 µg/ml
7)	acenaphthene	7.407	1737813	16.811 µg/ml
8)	fluorene	8.052	1662974	16.373 µg/ml
9)	phenanthrene	9.230	1730375	17.004 µg/ml
10)	anthracene	9.285	1858981	19.163 µg/ml
12)	fluoranthene	10.733	1900811	19.019 µg/ml
13)	pyrene	10.990	1938460	19.105 µg/ml
14)	benzo(a)anthracene	12.552	1923807	19.900 µg/mlm
15)	chrysene	12.598	1954643	20.080 µg/mlm
16)	benzo(B)fluoranthene	13.848	2019271	20.396 µg/ml
17)	benzo(k)fluoranthene	13.875	1858444	19.666 µg/ml
18)	benzo(a)pyrene	14.182	1909256	20.655 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.320	1941750	20.513 µg/ml
20)	dibenzo(ah)anthracene	15.365	1868301	20.441 µg/ml
21)	benzo(ghi)perylene	15.542	1925036	20.896 µg/ml
25) h	c-9	2.648	1017172	13.769 µg/mlm
26) h	c-10	3.815	1155104	15.637 µg/ml
27)	naphthalene #2	5.488	4449	0.056 µg/ml
28)	c-12	5.663	1226401	16.602 µg/ml
29)	2-methylnaphthalene #2	6.382	4229	0.052 µg/ml
30)	c-14	7.182	1239438	16.778 µg/ml
31)	c-16	8.512	1292527	17.497 µg/ml
32)	c-18	9.705	1391202	18.833 µg/ml
33)	c-19	10.260	1385761	20.743 µg/ml
34)	c-20	10.792	1414371	21.171 µg/ml
36)	c-22	11.787	1428232	21.379 µg/ml
37)	c-24	12.703	1416188	21.198 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14107.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 10:37 am
Operator : thomasa
Sample : op47484-bs
Misc : op47484,gde792,11.80,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:08:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1381722	20.682 µg/ml
39)	c-28	14.348	1345632	20.142 µg/ml
40) h	c-30	15.098	1256571	18.809 µg/ml
41) h	c-36	17.008	690759	10.340 µg/mlm

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

9.3.3

9

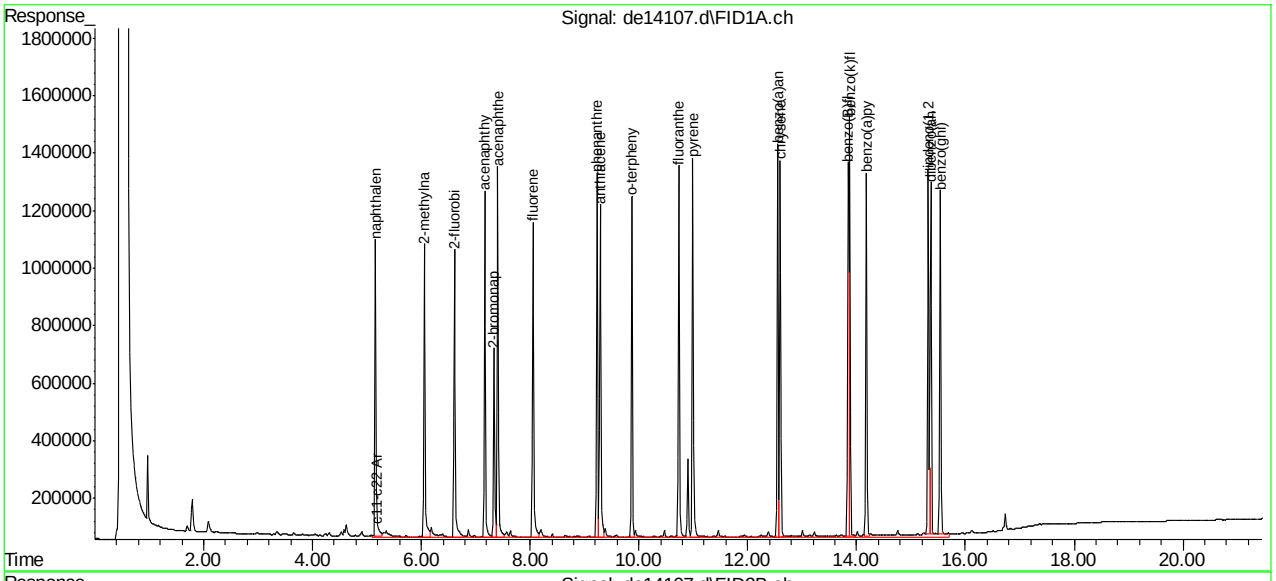
SGS ACCUTEST MC45678

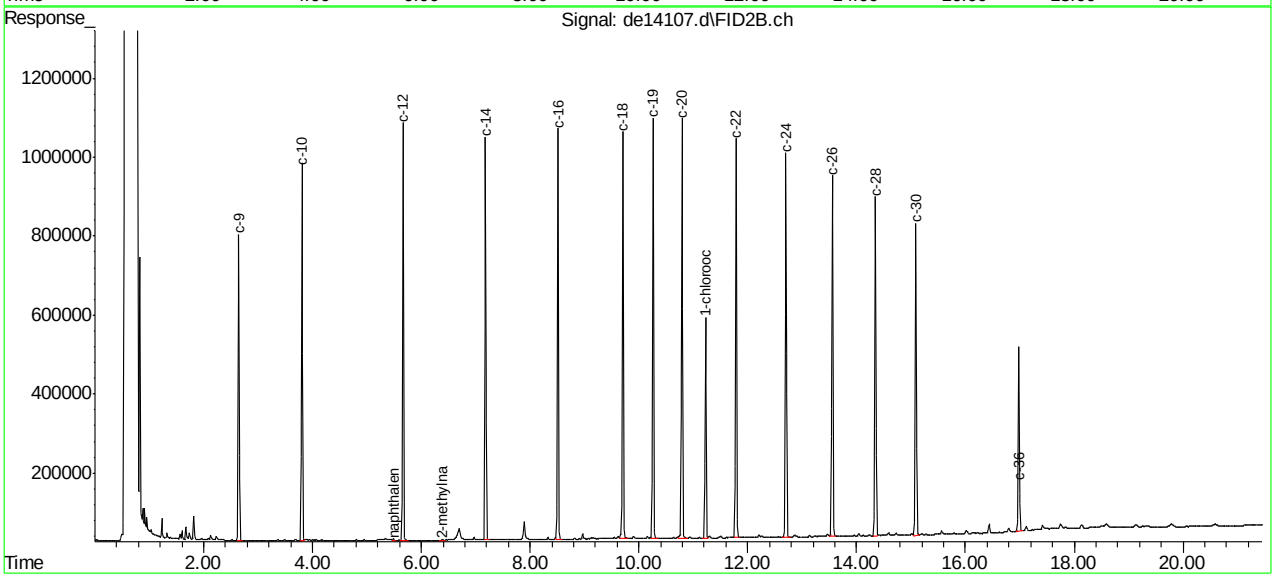
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14107.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 10:37 am
Operator : thomasa
Sample : op47484-bs
Misc : op47484,gde792,11.80,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

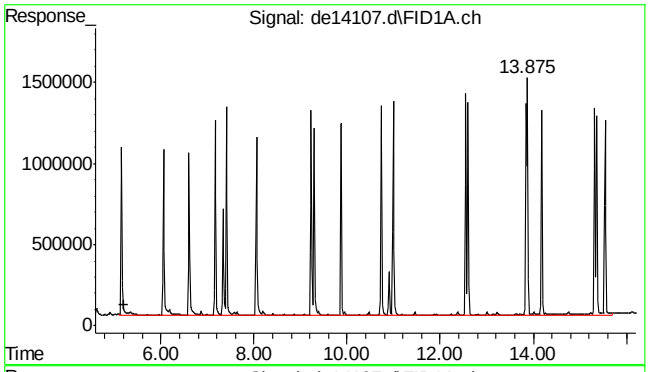
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:08:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



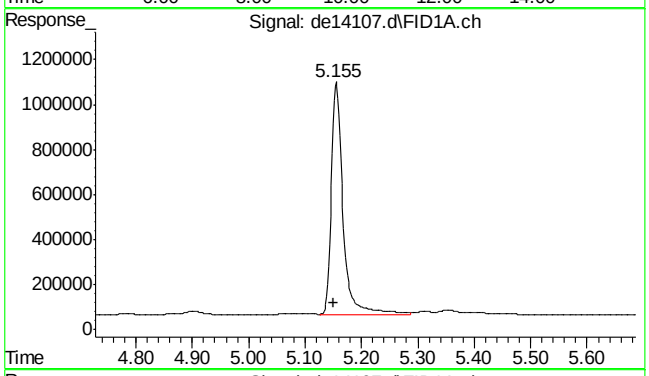


SGS ACCUTEST MC45678



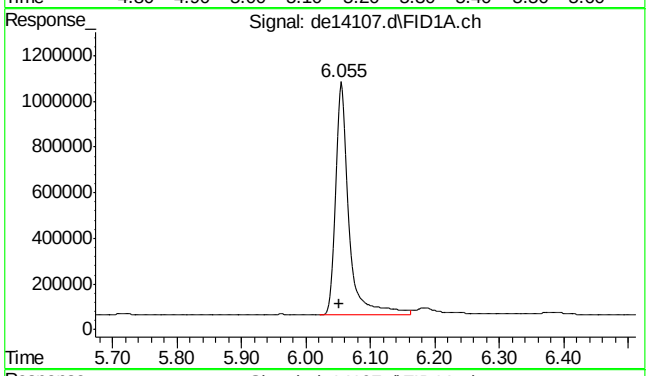
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 33797848
Conc: 344.16 µg/ml m



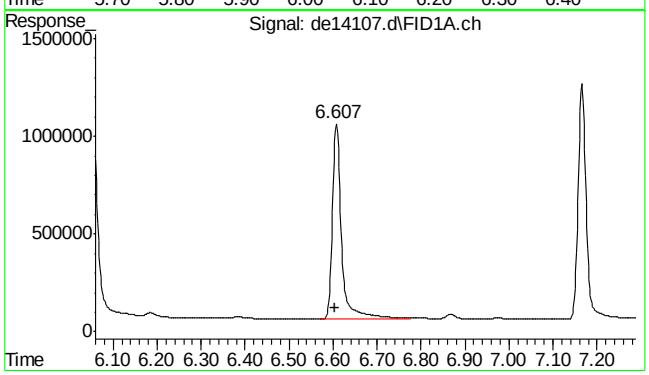
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.003 min
Response: 1485974
Conc: 14.41 µg/ml



#3 2-methylnaphthalene

R.T.: 6.055 min
Delta R.T.: 0.003 min
Response: 1506887
Conc: 14.70 µg/ml



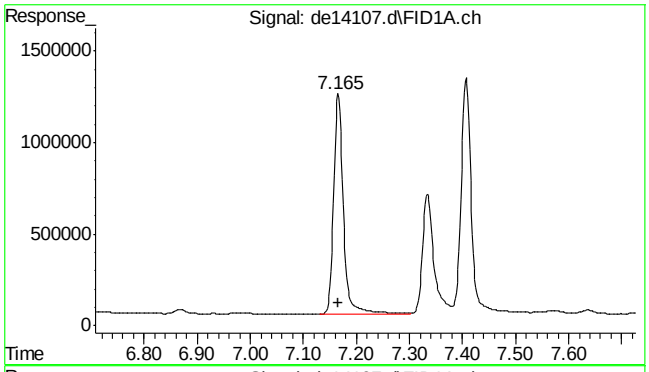
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 1488330
Conc: 16.14 µg/ml

9.3.3

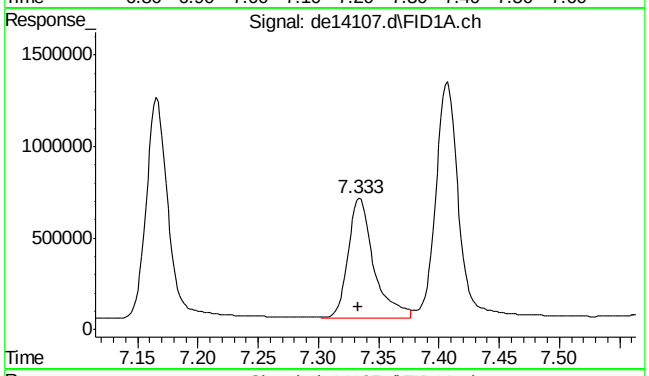
9

SGS ACCUTEST MC45678



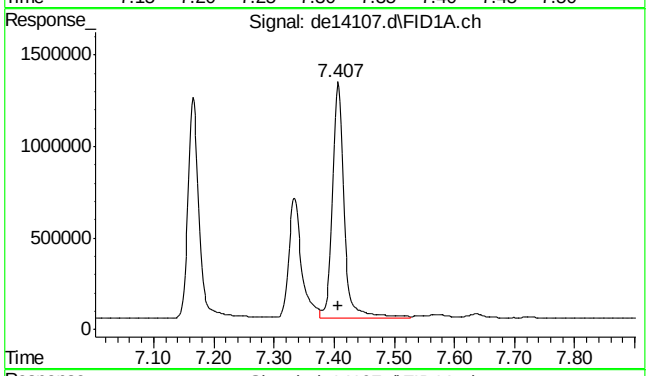
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: -0.002 min
Response: 1542984
Conc: 15.34 µg/ml



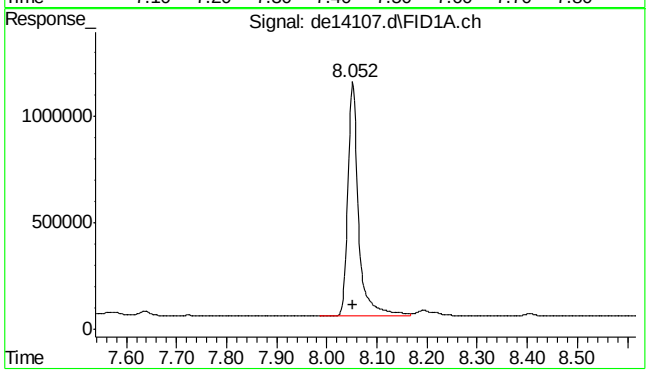
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 964488
Conc: 15.37 µg/ml



#7 acenaphthene

R.T.: 7.407 min
Delta R.T.: 0.000 min
Response: 1737813
Conc: 16.81 µg/ml



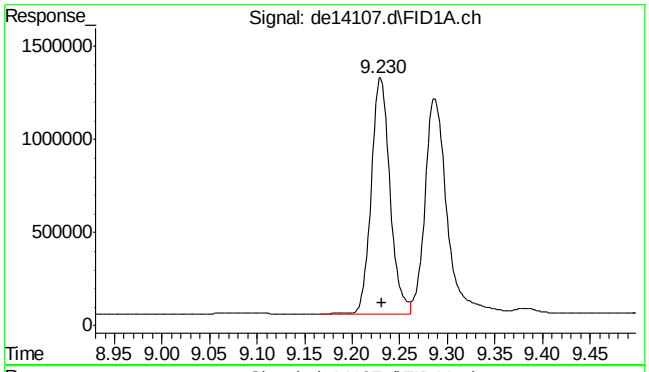
#8 fluorene

R.T.: 8.052 min
Delta R.T.: 0.000 min
Response: 1662974
Conc: 16.37 µg/ml

9.3.3

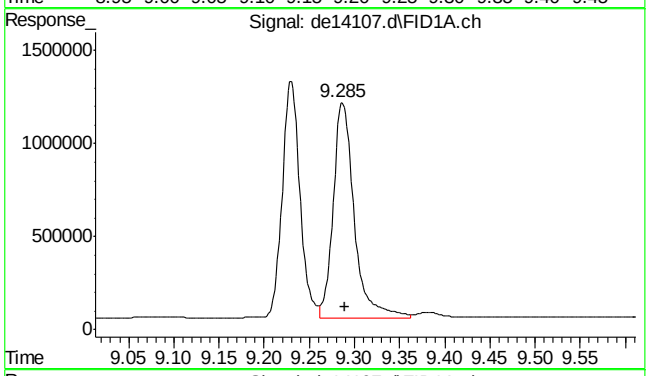
9

SGS ACCUTEST MC45678



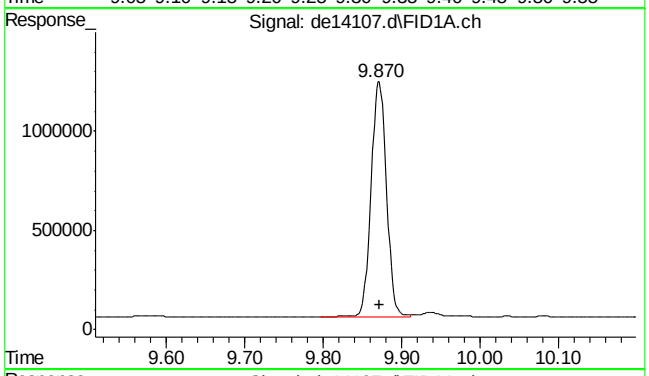
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: -0.002 min
Response: 1730375
Conc: 17.00 µg/ml



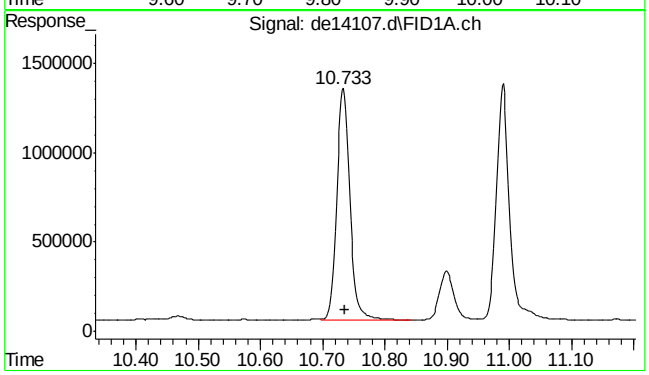
#10 anthracene

R.T.: 9.285 min
Delta R.T.: -0.005 min
Response: 1858981
Conc: 19.16 µg/ml



#11 o-terphenyl

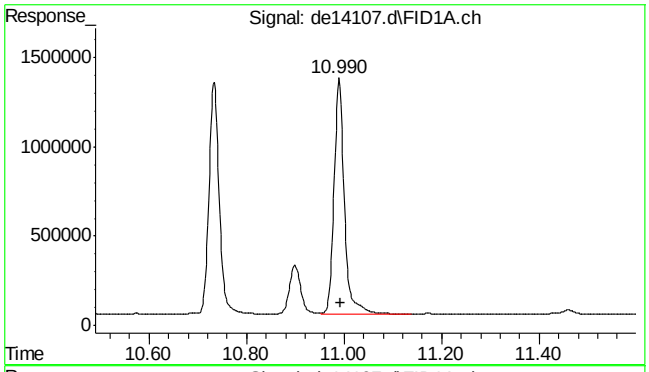
R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 1616574
Conc: 15.78 µg/ml



#12 fluoranthene

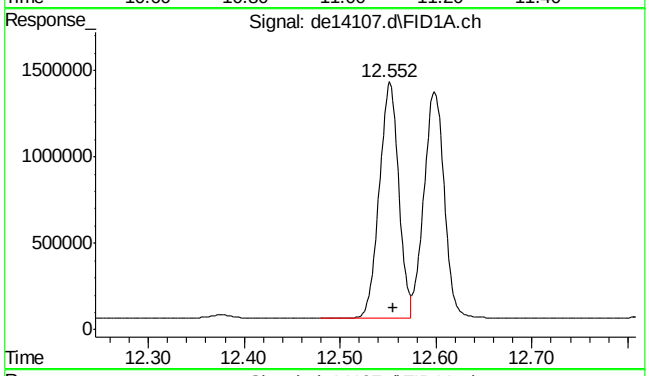
R.T.: 10.733 min
Delta R.T.: -0.002 min
Response: 1900811
Conc: 19.02 µg/ml

SGS ACCUTEST MC45678



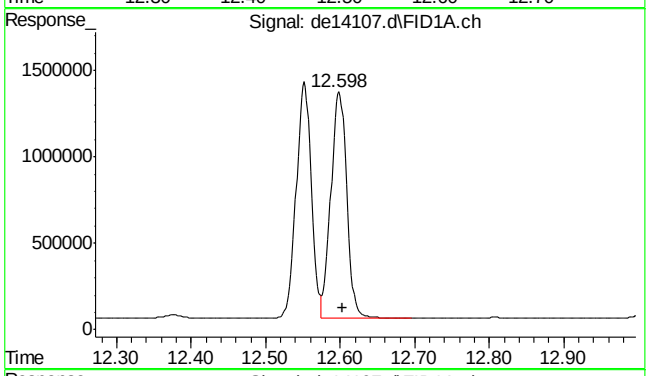
#13 pyrene

R.T.: 10.990 min
Delta R.T.: -0.003 min
Response: 1938460
Conc: 19.11 µg/ml



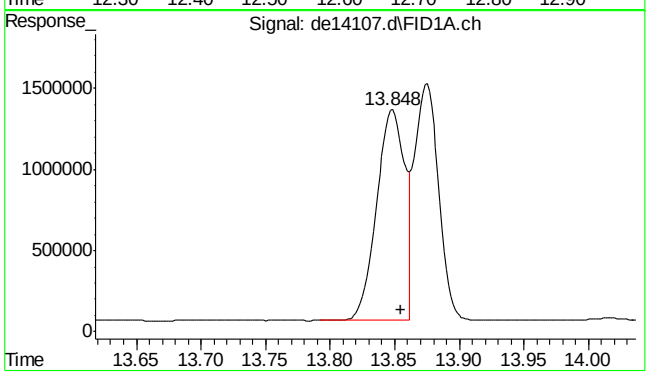
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: -0.003 min
Response: 1923807
Conc: 19.90 µg/ml m



#15 chrysene

R.T.: 12.598 min
Delta R.T.: -0.005 min
Response: 1954643
Conc: 20.08 µg/ml m



#16 benzo(B)fluoranthene

R.T.: 13.848 min
Delta R.T.: -0.007 min
Response: 2019271
Conc: 20.40 µg/ml

9.3.3

9

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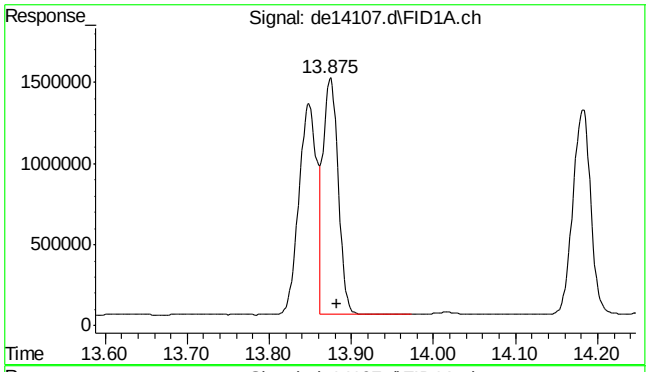
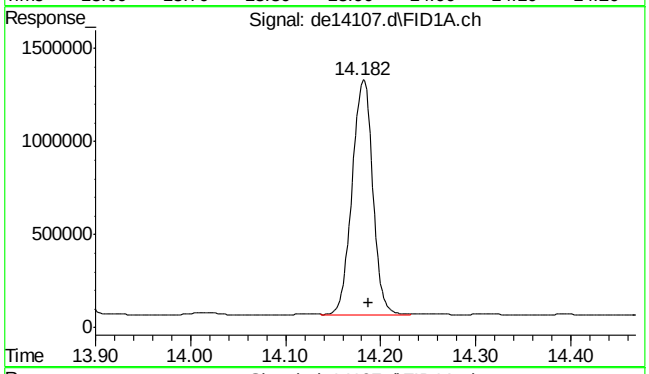


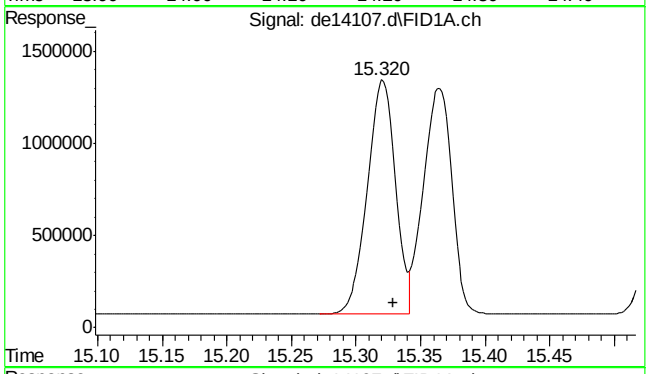
#17 benzo(k)fluoranthene

R.T.: 13.875 min
Delta R.T.: -0.008 min
Response: 1858444
Conc: 19.67 µg/ml



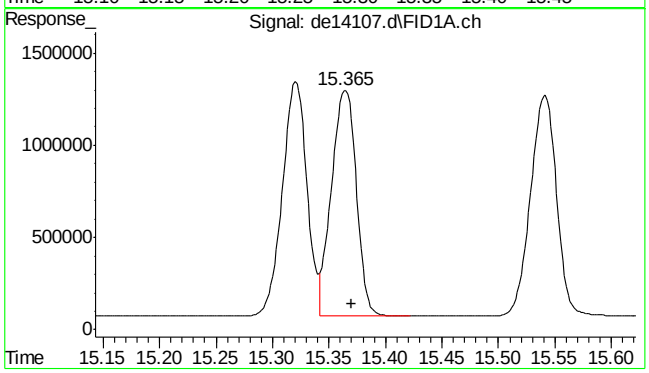
#18 benzo(a)pyrene

R.T.: 14.182 min
Delta R.T.: -0.005 min
Response: 1909256
Conc: 20.66 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.320 min
Delta R.T.: -0.008 min
Response: 1941750
Conc: 20.51 µg/ml



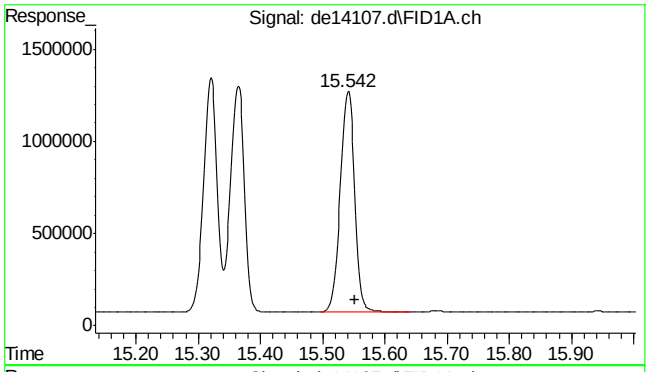
#20 dibenzo(ah)anthracene

R.T.: 15.365 min
Delta R.T.: -0.005 min
Response: 1868301
Conc: 20.44 µg/ml

9.3.3

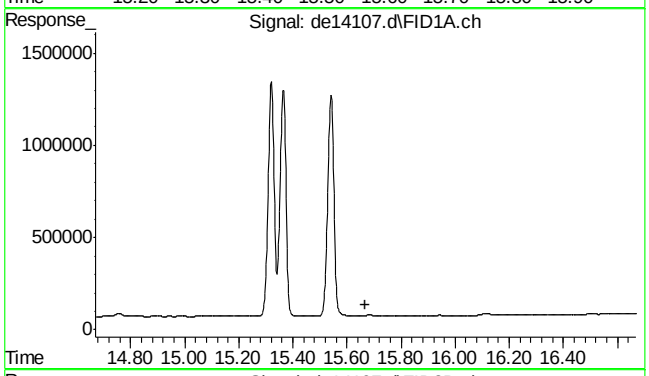
9

SGS ACCUTEST MC45678



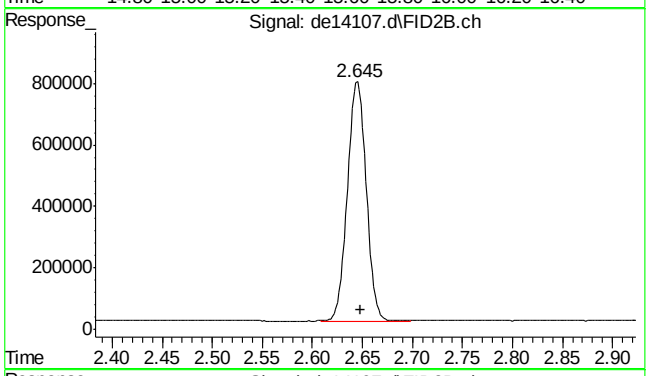
#21 benzo(ghi)perylene

R.T.: 15.542 min
Delta R.T.: -0.010 min
Response: 1925036
Conc: 20.90 µg/ml



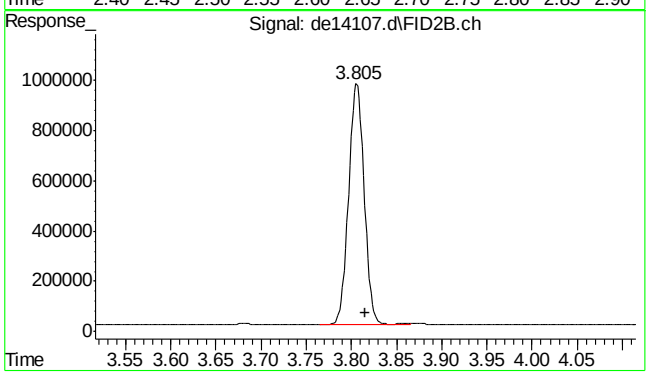
#22 bht

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: 1017172
Conc: 13.77 µg/ml m



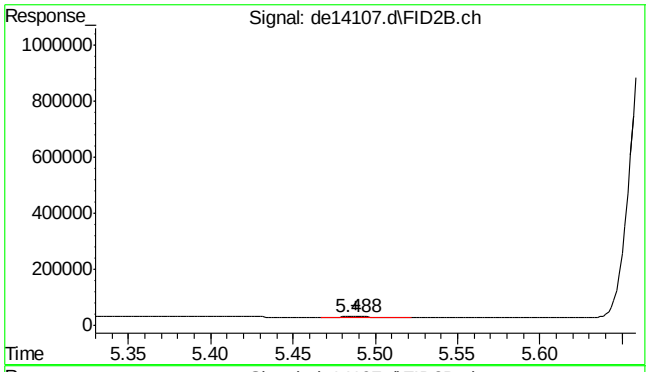
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1155104
Conc: 15.64 µg/ml

9.3.3

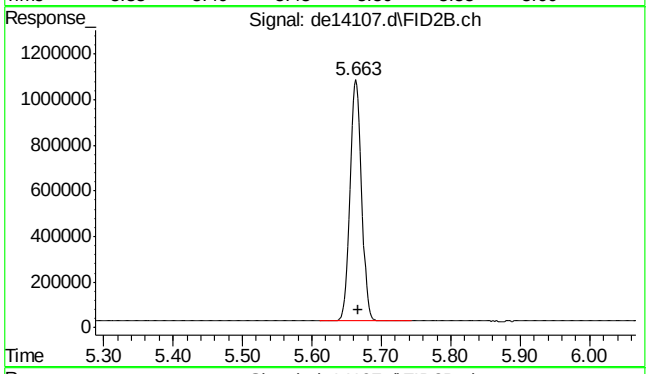
9

SGS ACCUTEST MC45678



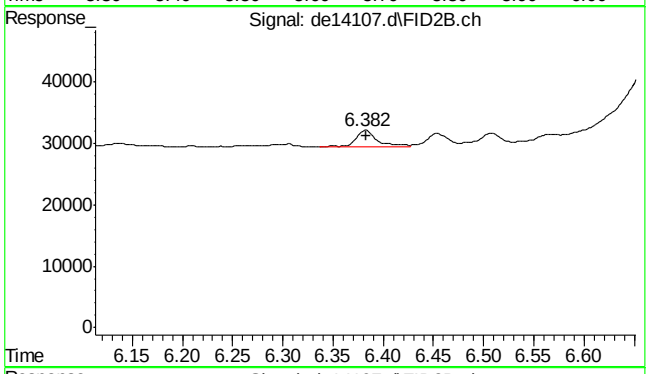
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4449
Conc: 0.06 µg/ml



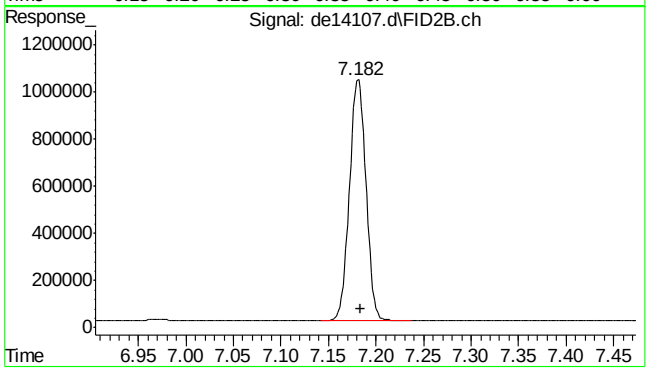
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.003 min
Response: 1226401
Conc: 16.60 µg/ml



#29 2-methylnaphthalene #2

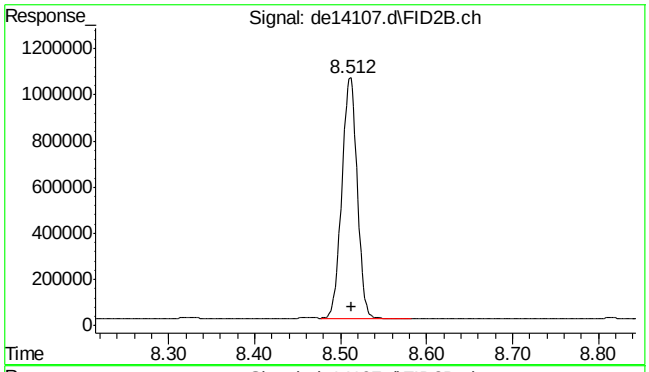
R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 4229
Conc: 0.05 µg/ml



#30 c-14

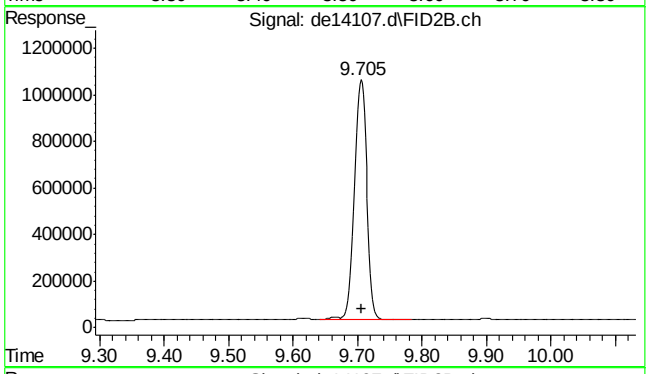
R.T.: 7.182 min
Delta R.T.: -0.002 min
Response: 1239438
Conc: 16.78 µg/ml

SGS ACCUTEST MC45678



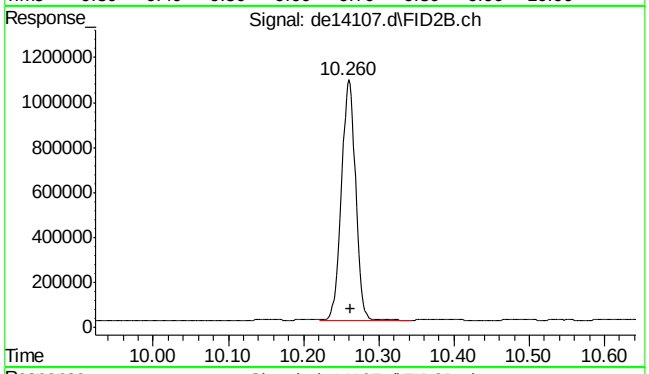
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 1292527
Conc: 17.50 µg/ml



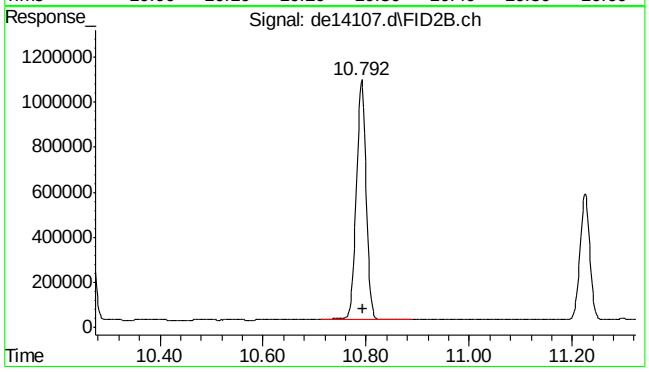
#32 c-18

R.T.: 9.705 min
Delta R.T.: -0.002 min
Response: 1391202
Conc: 18.83 µg/ml



#33 c-19

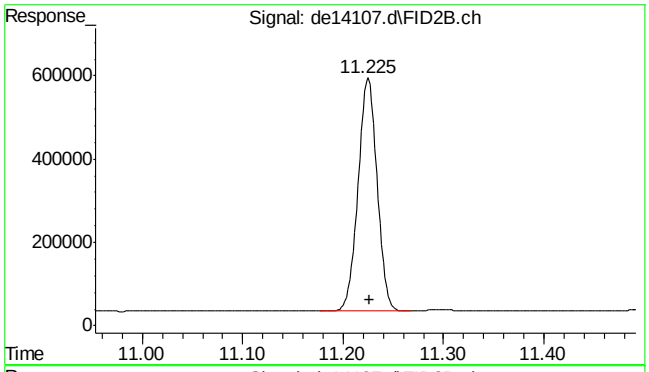
R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 1385761
Conc: 20.74 µg/ml



#34 c-20

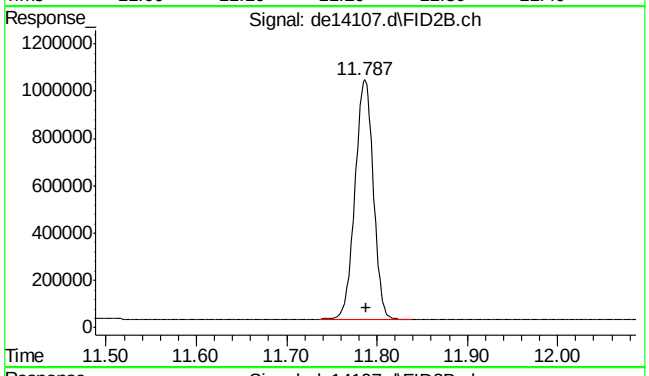
R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1414371
Conc: 21.17 µg/ml

SGS ACCUTEST MC45678



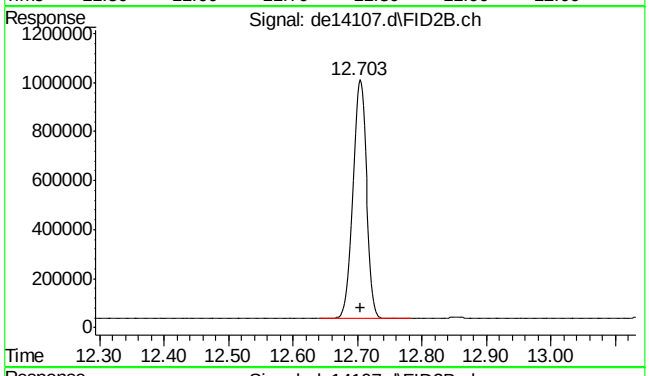
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 733788
Conc: 12.97 µg/ml



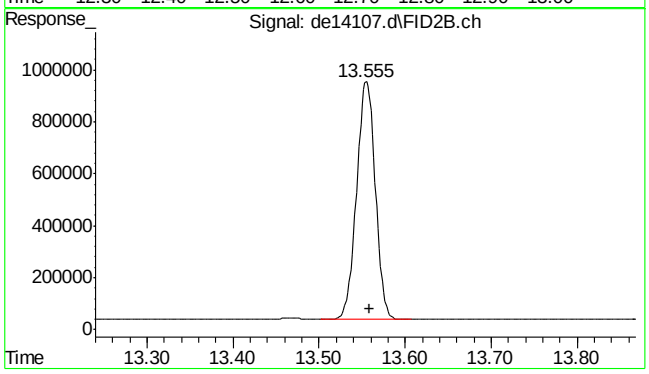
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 1428232
Conc: 21.38 µg/ml



#37 c-24

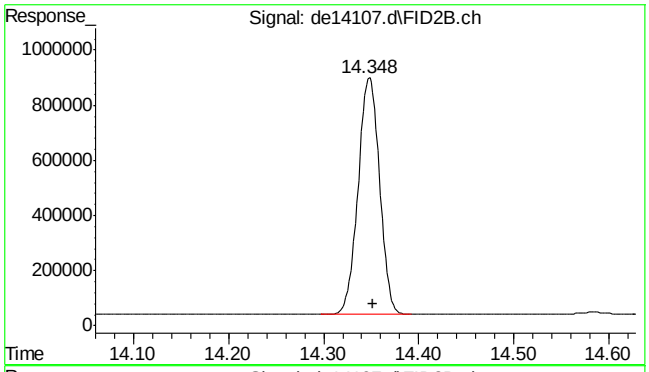
R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 1416188
Conc: 21.20 µg/ml



#38 c-26

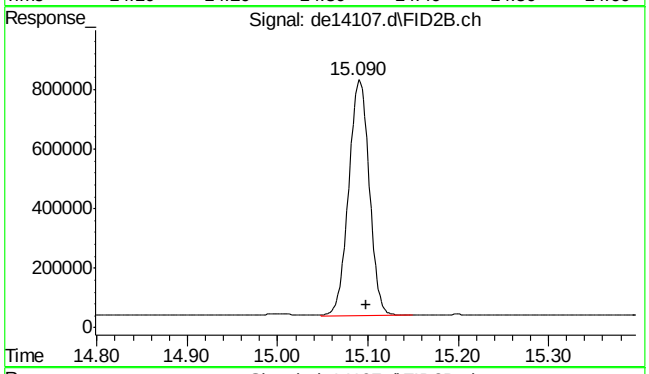
R.T.: 13.555 min
Delta R.T.: -0.003 min
Response: 1381722
Conc: 20.68 µg/ml

SGS ACCUTEST MC45678



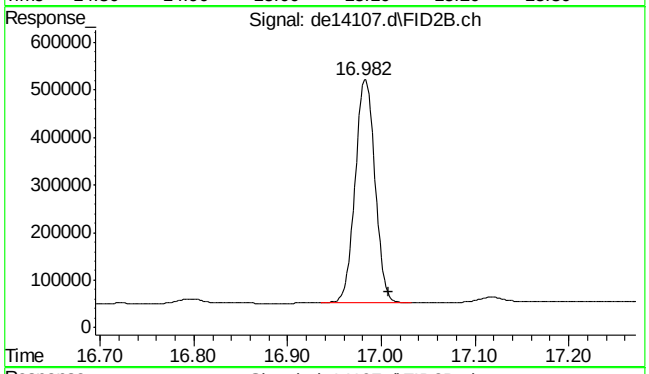
#39 c-28

R.T.: 14.348 min
Delta R.T.: -0.003 min
Response: 1345632
Conc: 20.14 µg/ml



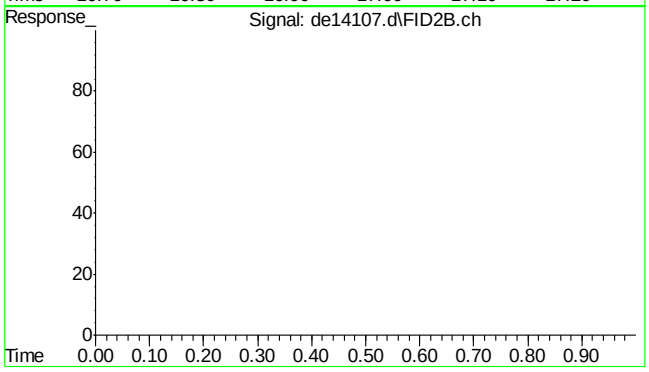
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1256571
Conc: 18.81 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 690759
Conc: 10.34 µg/ml m



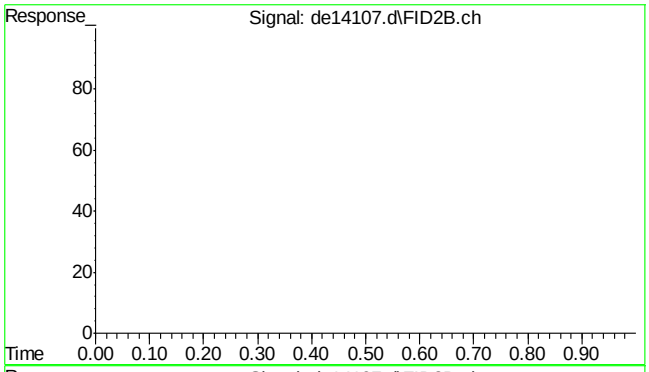
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.3

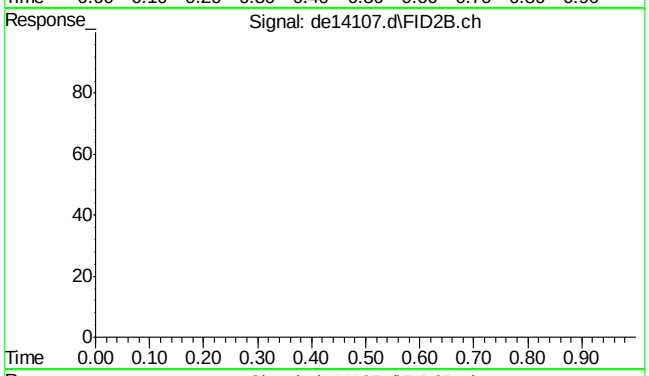
9

SGS ACCUTEST MC45678



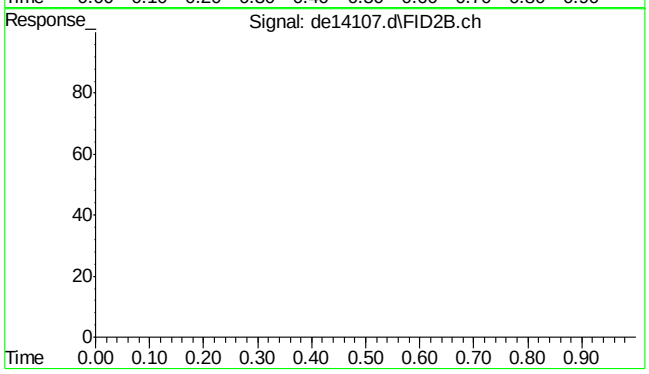
#43 bht

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.

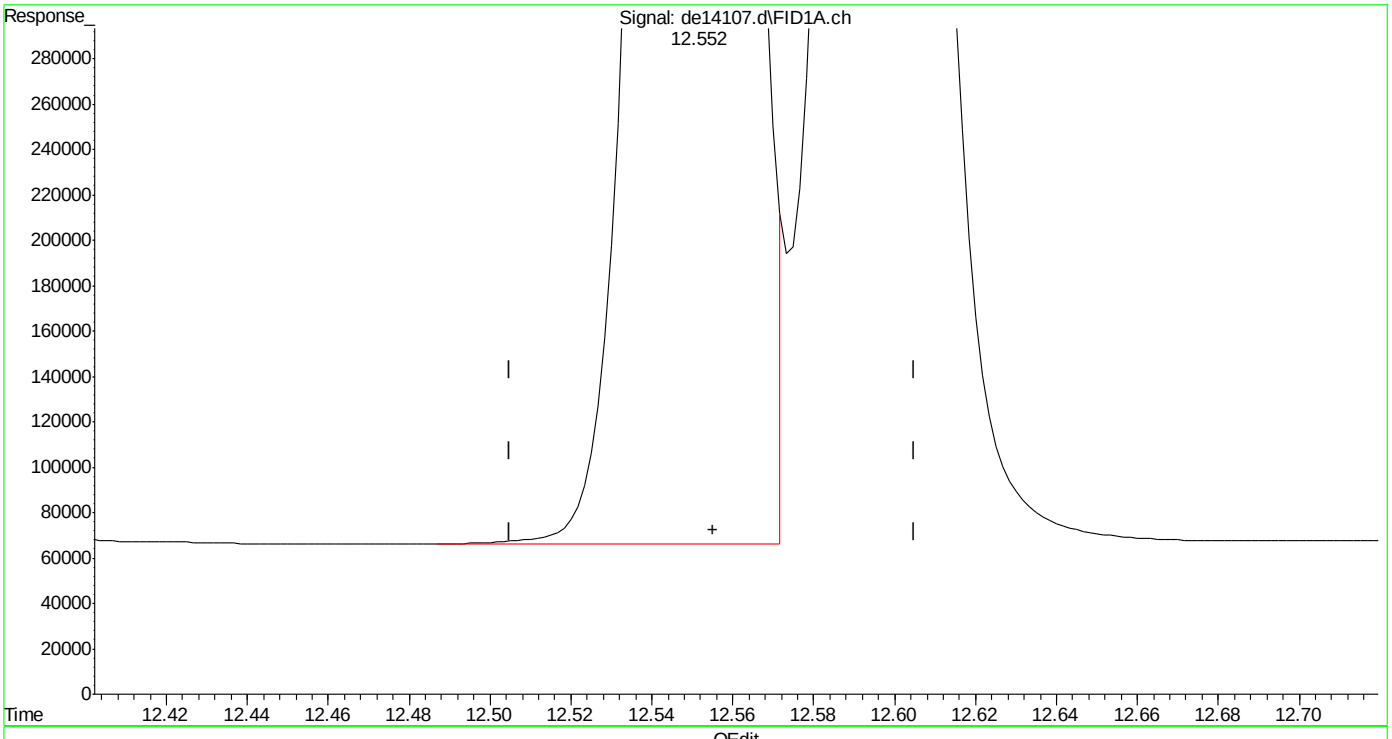
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14107.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 10:37 am
Operator : thomasa
Sample : op47484-bs
Misc : op47484,gde792,11.80,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 11:17:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.552min 19.765 µg/ml
response 1910759

(+) = Expected Retention Time

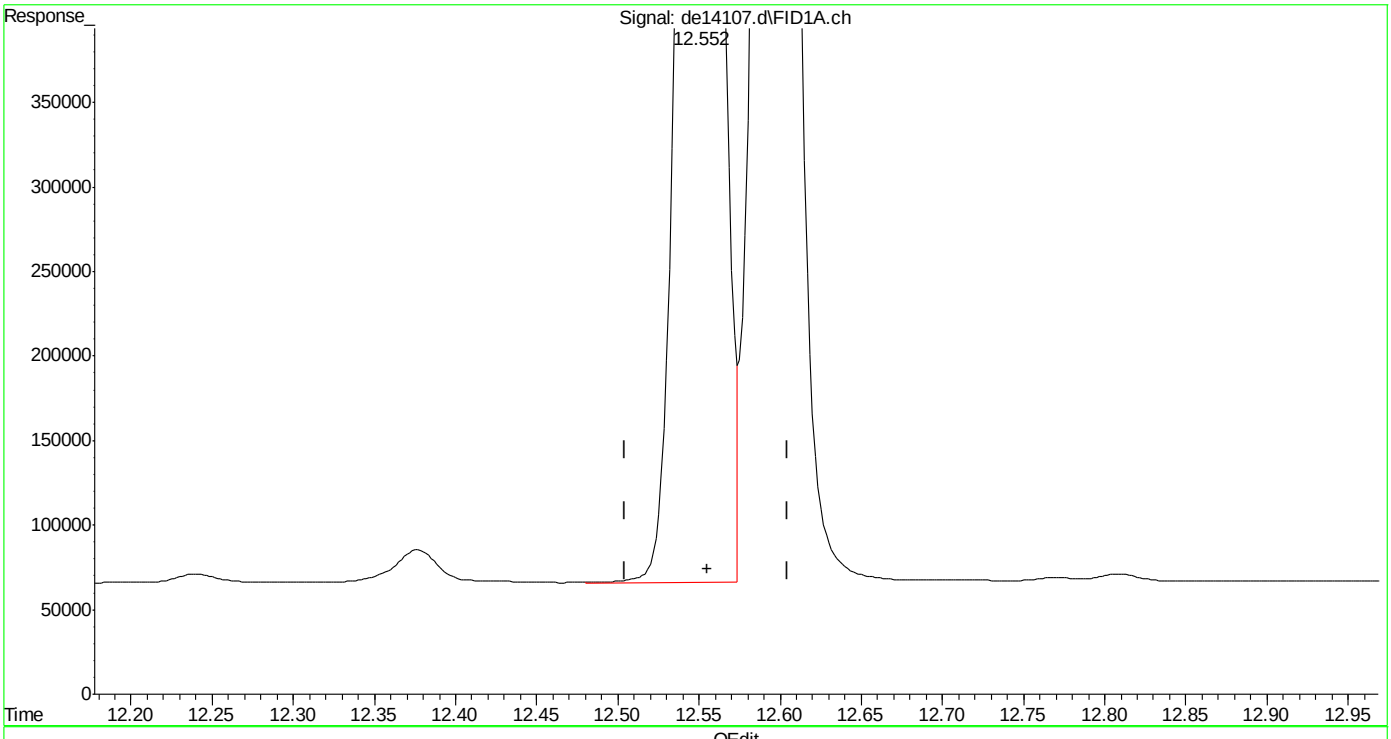
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14107.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 18 May 2016  10:37 am
Operator  : thomasa
Sample    : op47484-bs
Misc      : op47484,gde792,11.80,,,2,,s
ALS Vial  : 6   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 11:17:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene

12.552min 19.900 µg/ml m

response 1923807

(+) = Expected Retention Time

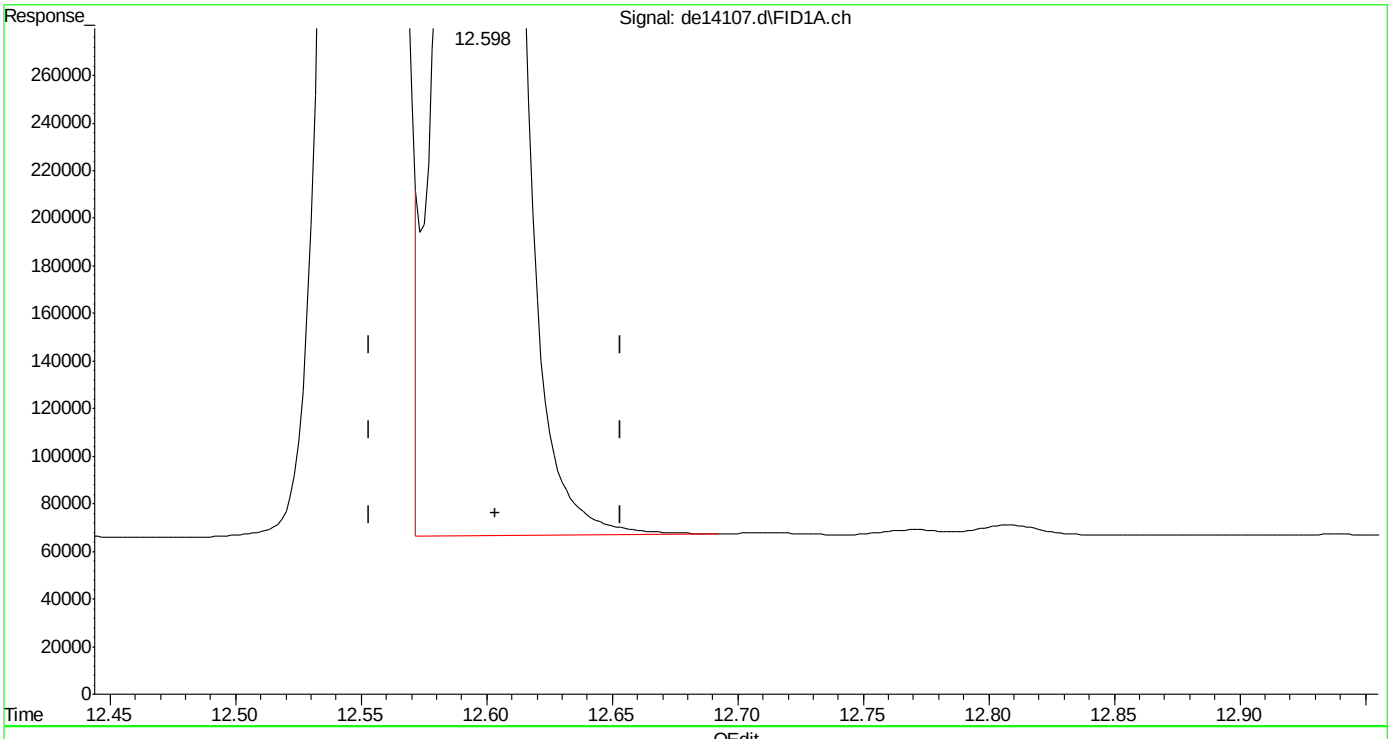
EPH160518W.M Wed May 18 12:07:30 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14107.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 10:37 am
Operator : thomasa
Sample : op47484-bs
Misc : op47484,gde792,11.80,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 11:17:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.598min 20.144 µg/ml
response 1960830

(+) = Expected Retention Time
EPH160518W.M Wed May 18 12:07:33 2016

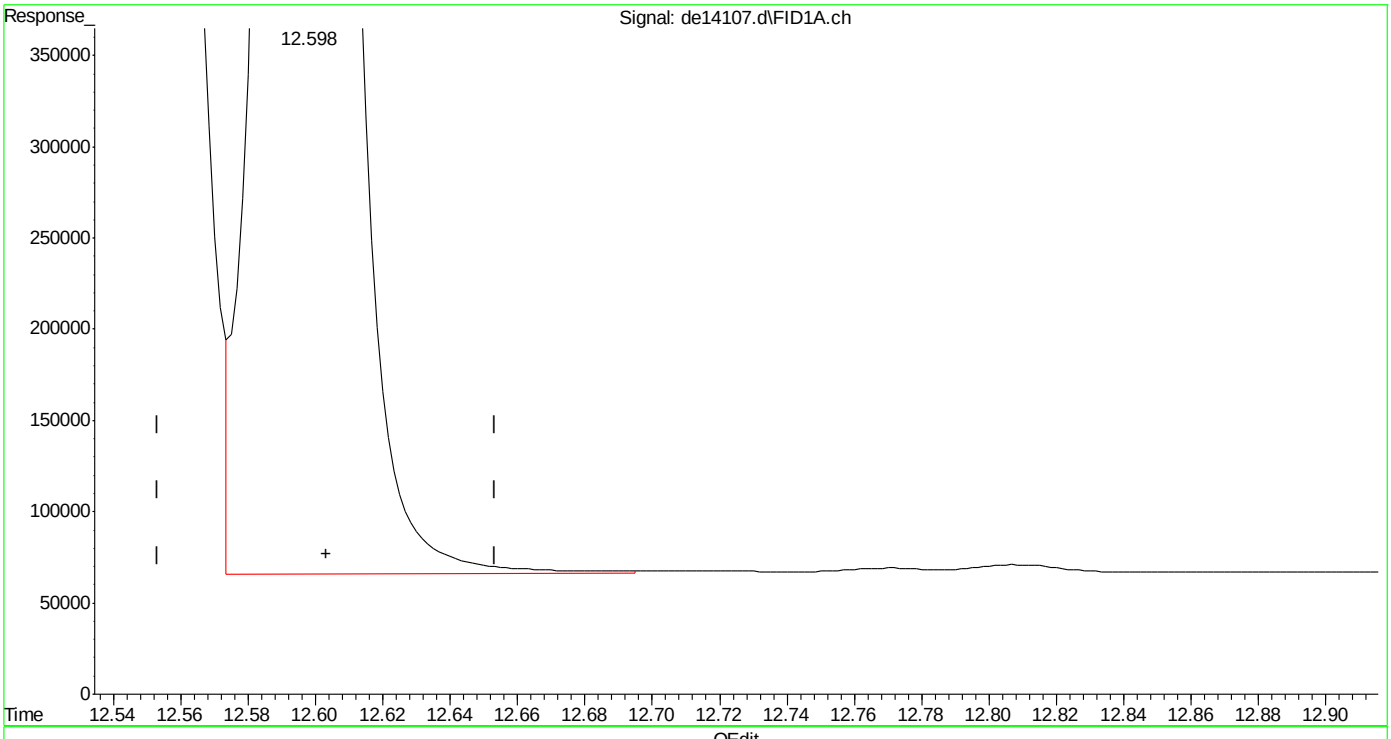
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14107.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 18 May 2016  10:37 am
Operator  : thomasa
Sample    : op47484-bs
Misc      : op47484,gde792,11.80,,,2,,s
ALS Vial  : 6   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 11:17:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title  : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene

12.598min 20.080 µg/ml m

response 1954643

(+) = Expected Retention Time

EPH160518W.M Wed May 18 12:07:56 2016

SGS ACCUTEST MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14108.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 11:05 am
Operator : thomasa
Sample : op47484-bsd
Misc : op47484,gde792,11.58,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:09:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1301724	14.114 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	70.57%#
6) s 2-bromonaphthalene	7.333	849256	13.533 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	67.66%#
11) s o-terphenyl	9.872	1499827	14.643 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	73.22%#
35) s 1-chlorooctadecane	11.225	754607	13.338 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	66.69%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	31318830	318.914 µg/mlm
2) naphthalene	5.157	1407430	13.646 µg/ml
3) 2-methylnaphthalene	6.055	1399265	13.654 µg/ml
5) acenaphthylene	7.167	1409162	14.007 µg/ml
7) acenaphthene	7.407	1583044	15.313 µg/ml
8) fluorene	8.050	1505419	14.822 µg/ml
9) phenanthrene	9.230	1537305	15.107 µg/ml
10) anthracene	9.287	1677265	17.290 µg/ml
12) fluoranthene	10.733	1739869	17.409 µg/ml
13) pyrene	10.990	1763854	17.384 µg/ml
14) benzo(a)anthracene	12.552	1795718	18.575 µg/ml
15) chrysene	12.600	1802253	18.515 µg/ml
16) benzo(B)fluoranthene	13.848	1803240	18.214 µg/ml
17) benzo(k)fluoranthene	13.875	1828187	19.345 µg/ml
18) benzo(a)pyrene	14.180	1786305	19.325 µg/ml
19) indeno(1,2,3-cd)pyrene	15.320	1798454	18.999 µg/ml
20) dibenzo(ah)anthracene	15.365	1791862	19.605 µg/ml
21) benzo(ghi)perylene	15.542	1813807	19.689 µg/ml
25) h c-9	2.648	1207999	16.353 µg/mlm
26) h c-10	3.815	1372004	18.573 µg/ml
27) naphthalene #2	5.488	5761	0.072 µg/ml
28) c-12	5.663	1444965	19.560 µg/ml
29) 2-methylnaphthalene #2	6.382	4597	0.057 µg/ml
30) c-14	7.182	1449031	19.615 µg/ml
31) c-16	8.510	1461092	19.779 µg/ml
32) c-18	9.705	1575493	21.327 µg/ml
33) c-19	10.260	1581092	23.667 µg/ml
34) c-20	10.792	1618497	24.227 µg/ml
36) c-22	11.787	1631742	24.425 µg/ml
37) c-24	12.703	1615380	24.180 µg/ml

SGS ACCUTEST MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14108.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 11:05 am
Operator : thomasa
Sample : op47484-bsd
Misc : op47484,gde792,11.58,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:09:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1575439	23.582	µg/ml
39)		c-28	14.350	1529498	22.894	µg/ml
40)	h	c-30	15.098	1392324	20.841	µg/ml
41)	h	c-36	17.008	613089	9.177	µg/mlm

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

9.3.4

9

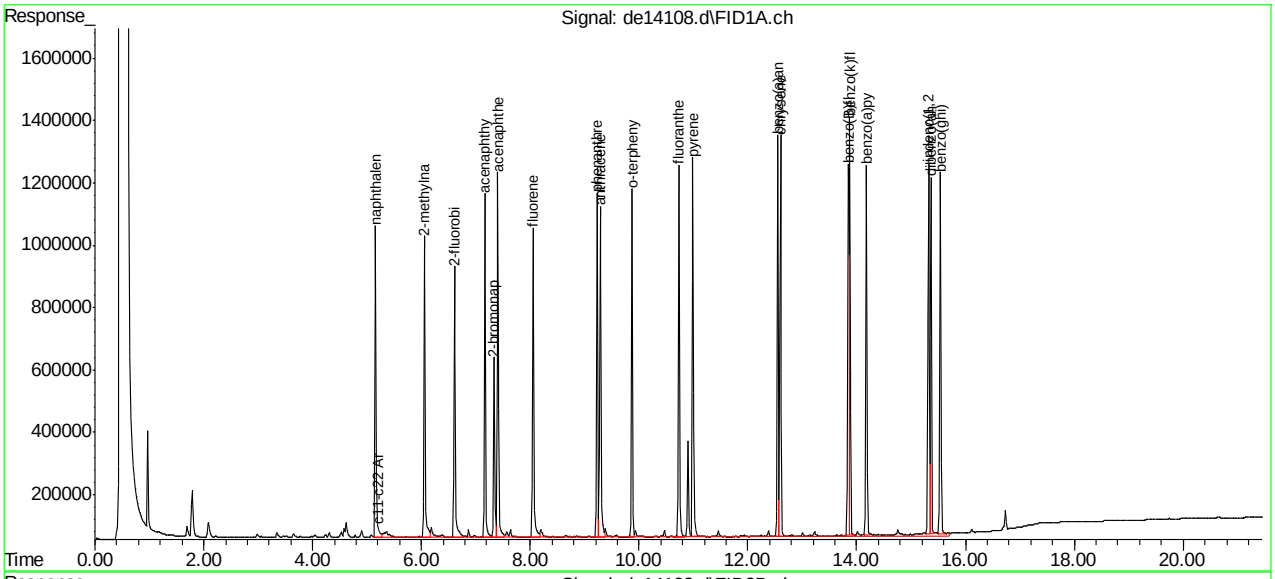
SGS ACCUTEST MC45678

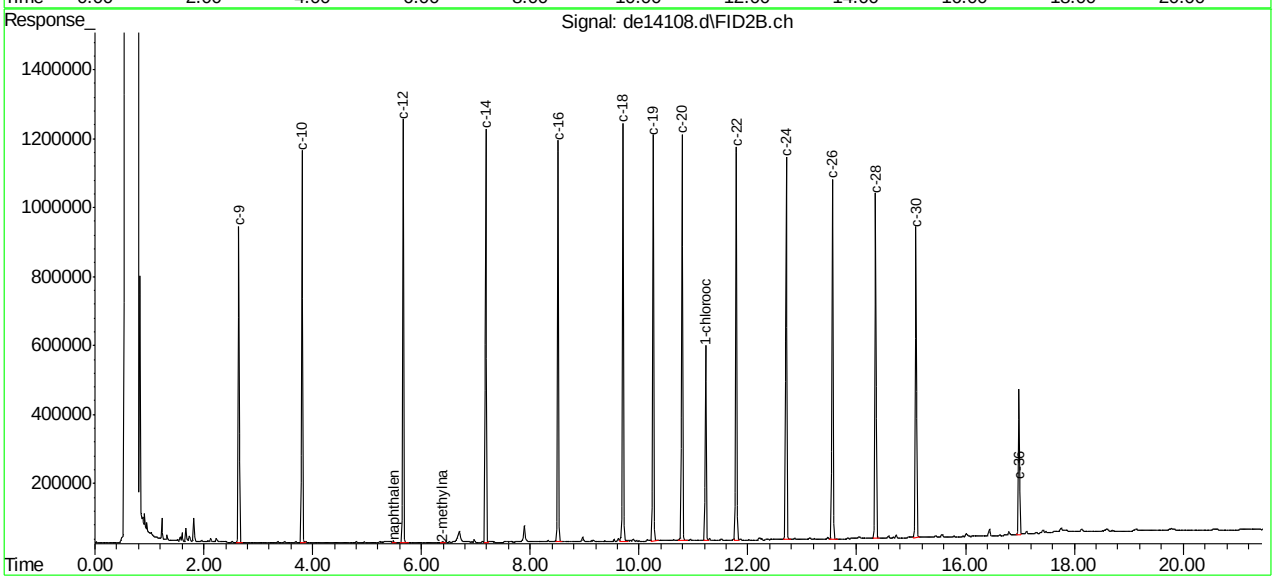
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14108.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 11:05 am
Operator : thomasa
Sample : op47484-bsd
Misc : op47484,gde792,11.58,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

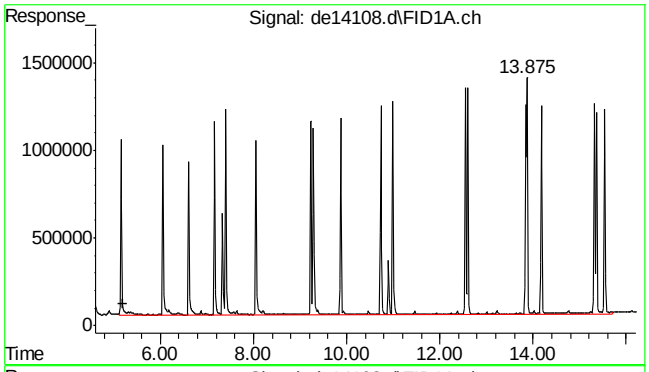
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 12:09:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



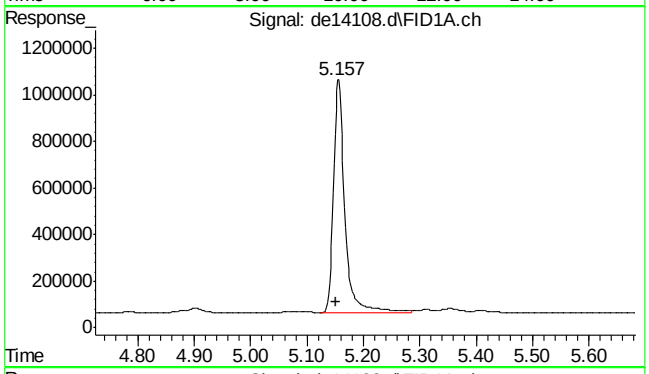


SGS ACCUTEST MC45678



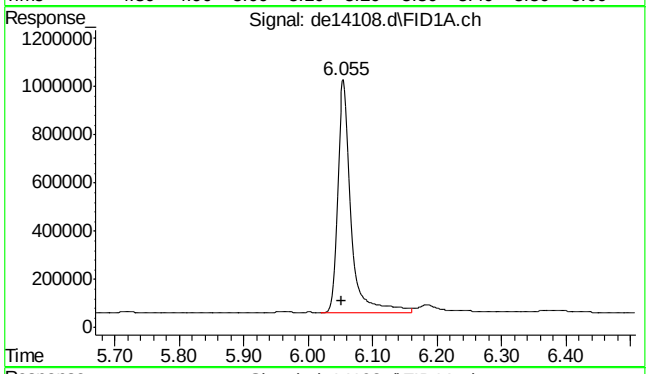
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 31318830
Conc: 318.91 µg/ml m



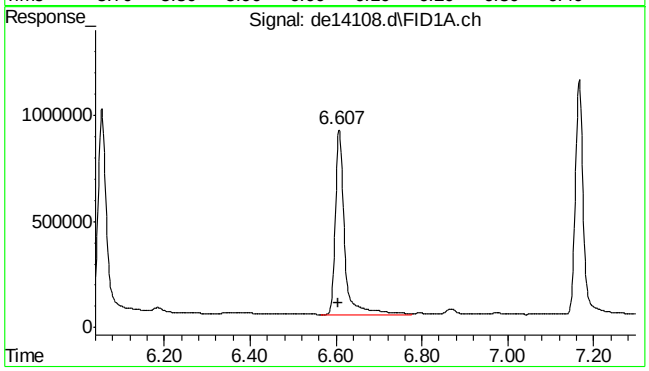
#2 naphthalene

R.T.: 5.157 min
Delta R.T.: 0.005 min
Response: 1407430
Conc: 13.65 µg/ml



#3 2-methylnaphthalene

R.T.: 6.055 min
Delta R.T.: 0.003 min
Response: 1399265
Conc: 13.65 µg/ml



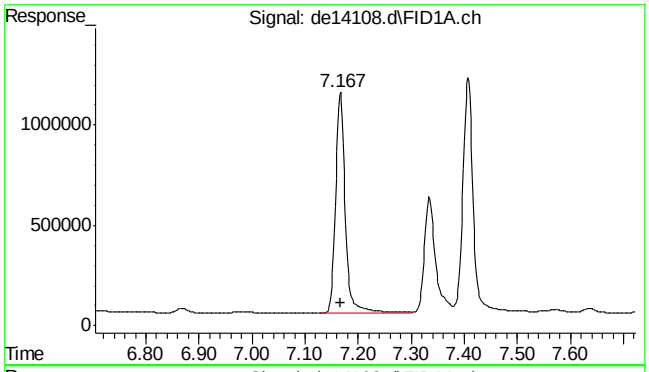
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 1301724
Conc: 14.11 µg/ml

9.3.4

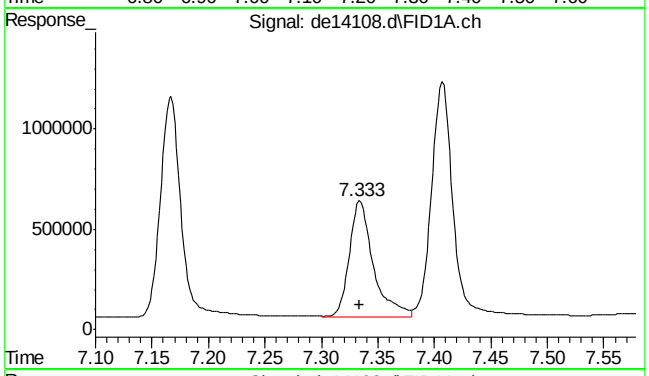
9

SGS ACCUTEST MC45678



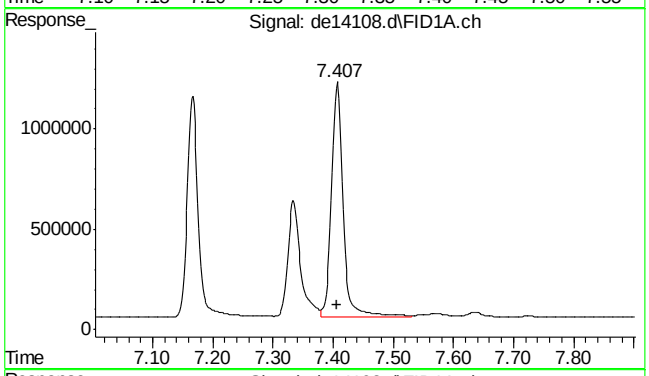
#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 1409162
Conc: 14.01 µg/ml



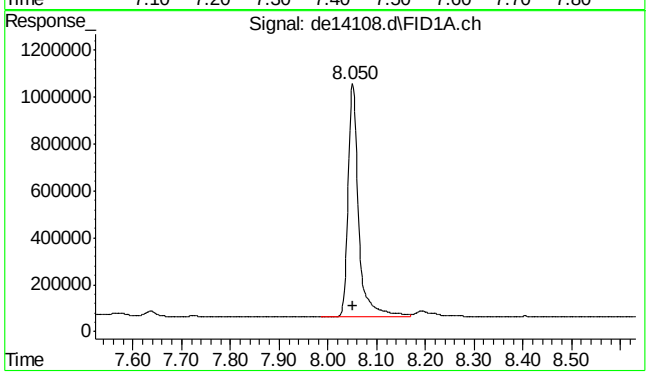
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 849256
Conc: 13.53 µg/ml



#7 acenaphthene

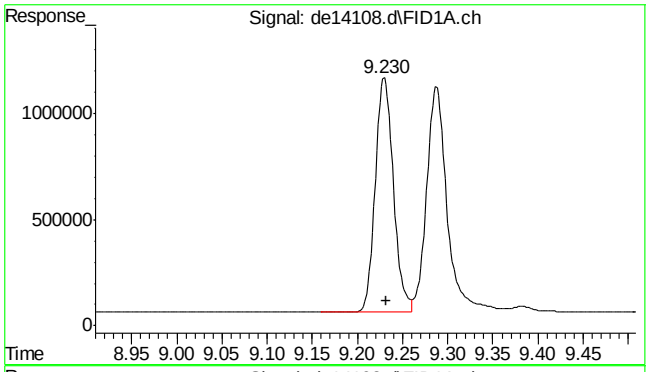
R.T.: 7.407 min
Delta R.T.: 0.000 min
Response: 1583044
Conc: 15.31 µg/ml



#8 fluorene

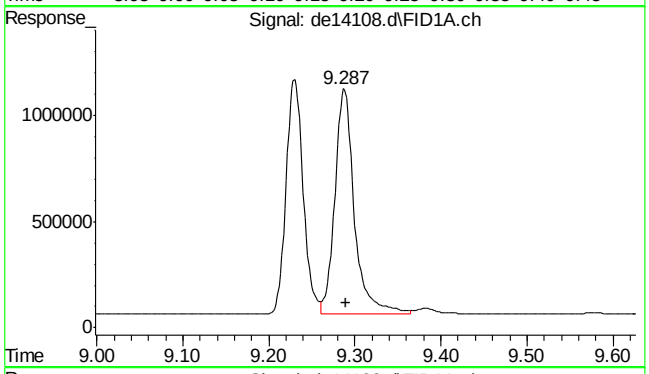
R.T.: 8.050 min
Delta R.T.: -0.002 min
Response: 1505419
Conc: 14.82 µg/ml

SGS ACCUTEST MC45678



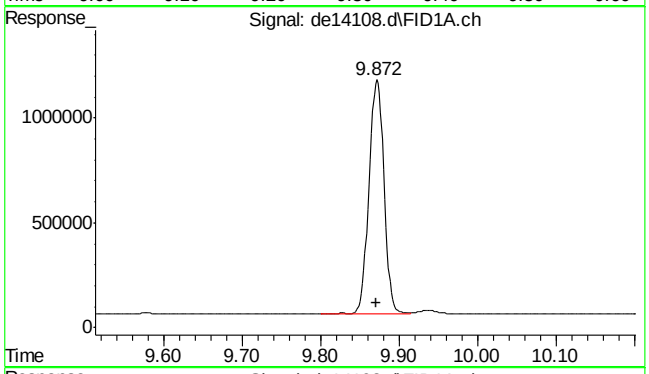
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: -0.002 min
Response: 1537305
Conc: 15.11 µg/ml



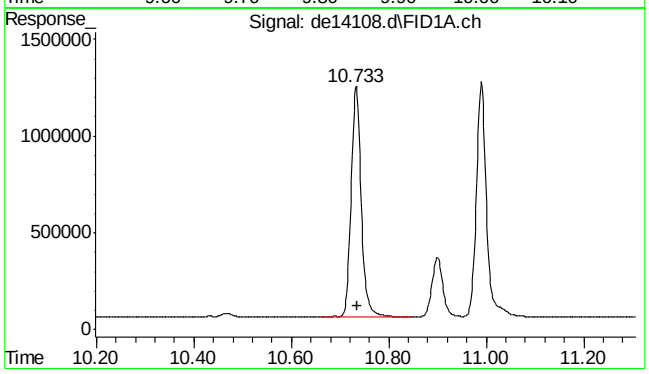
#10 anthracene

R.T.: 9.287 min
Delta R.T.: -0.003 min
Response: 1677265
Conc: 17.29 µg/ml



#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: 0.000 min
Response: 1499827
Conc: 14.64 µg/ml



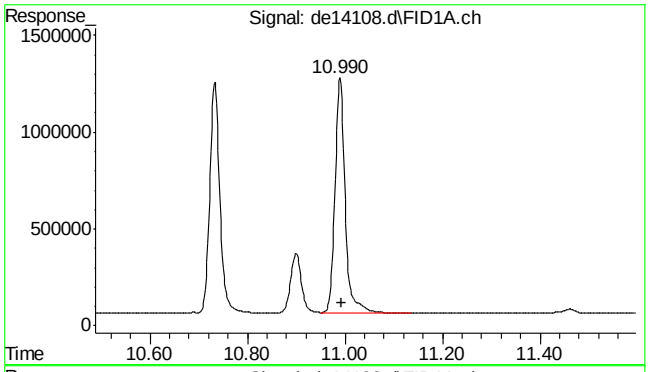
#12 fluoranthene

R.T.: 10.733 min
Delta R.T.: -0.002 min
Response: 1739869
Conc: 17.41 µg/ml

9.3.4

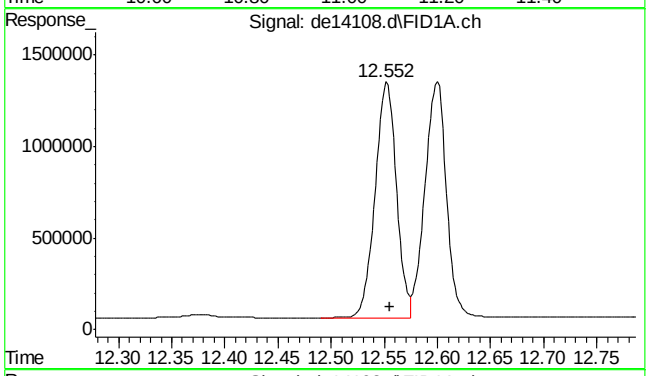
9

SGS ACCUTEST MC45678



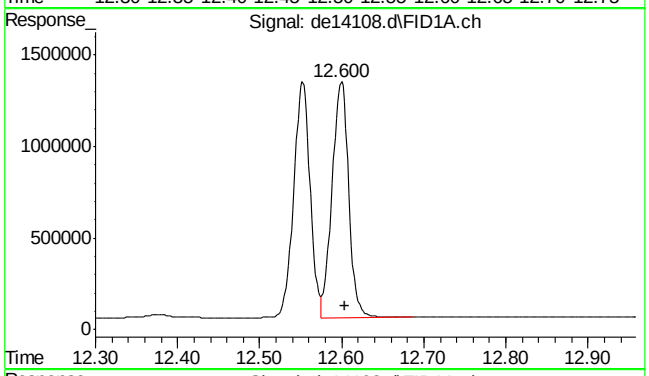
#13 pyrene

R.T.: 10.990 min
Delta R.T.: -0.003 min
Response: 1763854
Conc: 17.38 µg/ml



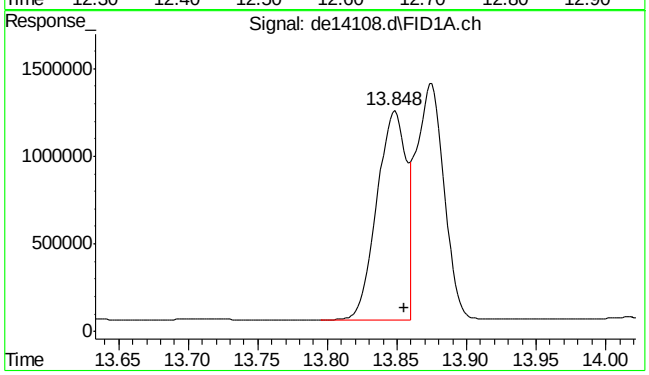
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: -0.003 min
Response: 1795718
Conc: 18.57 µg/ml



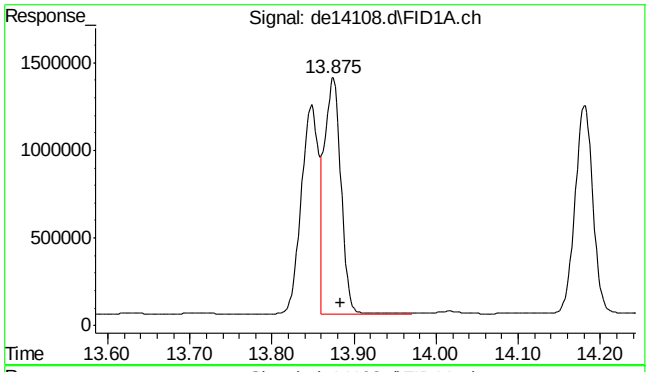
#15 chrysene

R.T.: 12.600 min
Delta R.T.: -0.003 min
Response: 1802253
Conc: 18.51 µg/ml



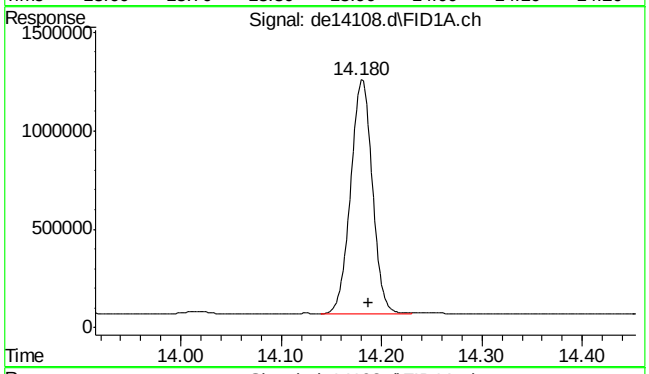
#16 benzo(B)fluoranthene

R.T.: 13.848 min
Delta R.T.: -0.007 min
Response: 1803240
Conc: 18.21 µg/ml



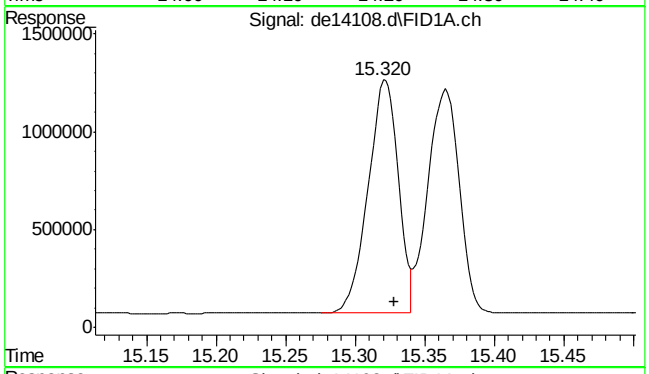
#17 benzo(k)fluoranthene

R.T.: 13.875 min
Delta R.T.: -0.008 min
Response: 1828187
Conc: 19.35 µg/ml



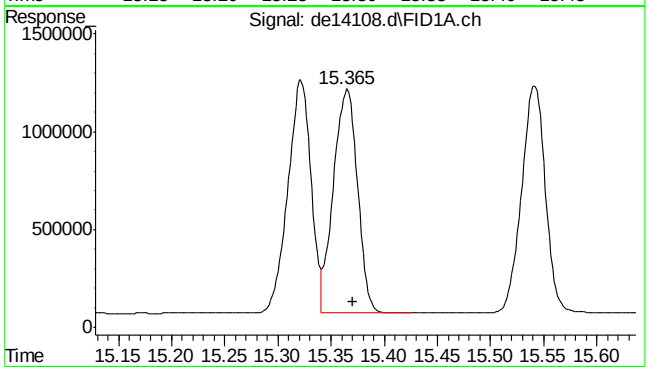
#18 benzo(a)pyrene

R.T.: 14.180 min
Delta R.T.: -0.007 min
Response: 1786305
Conc: 19.32 µg/ml



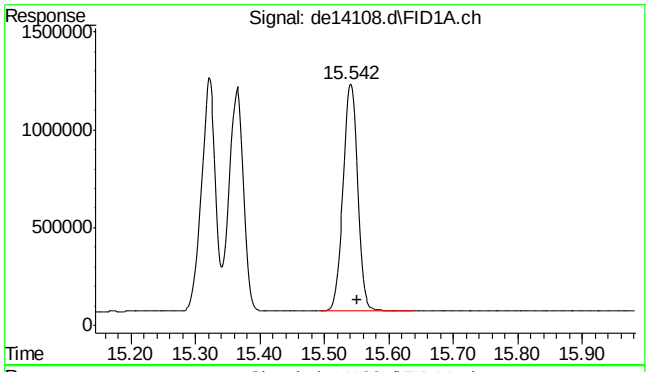
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.320 min
Delta R.T.: -0.008 min
Response: 1798454
Conc: 19.00 µg/ml



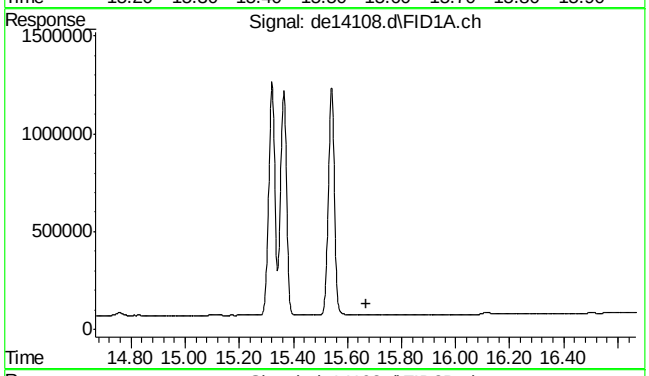
#20 dibenzo(ah)anthracene

R.T.: 15.365 min
Delta R.T.: -0.005 min
Response: 1791862
Conc: 19.60 µg/ml



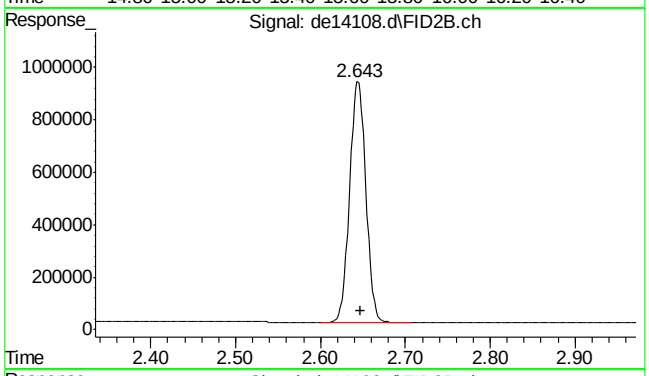
#21 benzo(ghi)perylene

R.T.: 15.542 min
Delta R.T.: -0.010 min
Response: 1813807
Conc: 19.69 µg/ml



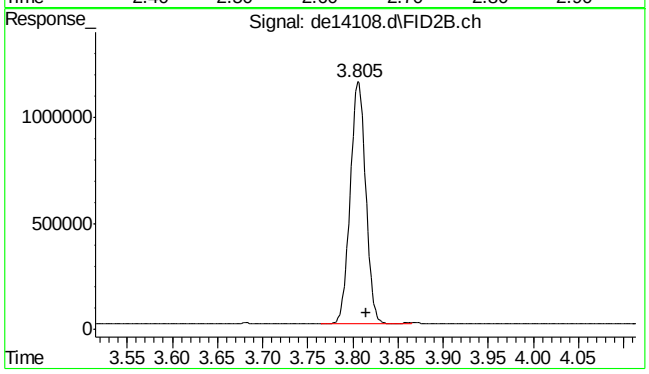
#22 bht

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: 1207999
Conc: 16.35 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1372004
Conc: 18.57 µg/ml

9.3.4

9

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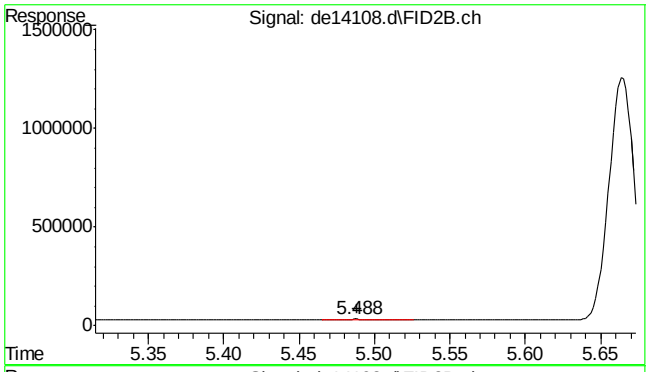
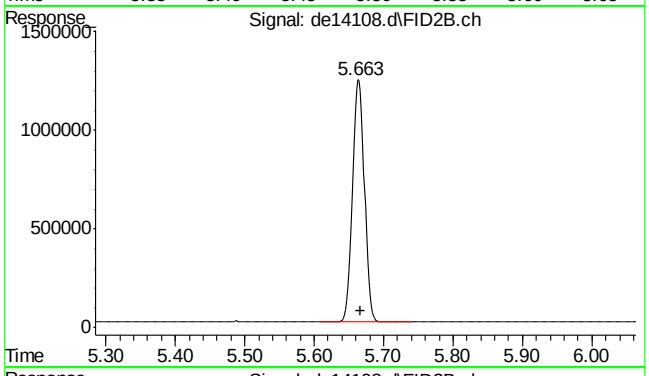


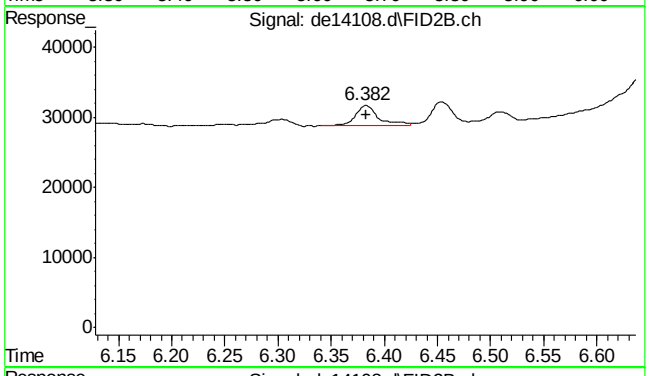
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 5761
Conc: 0.07 µg/ml



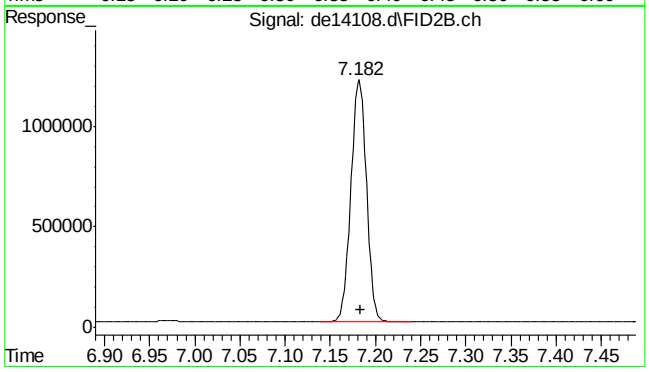
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.003 min
Response: 1444965
Conc: 19.56 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 4597
Conc: 0.06 µg/ml



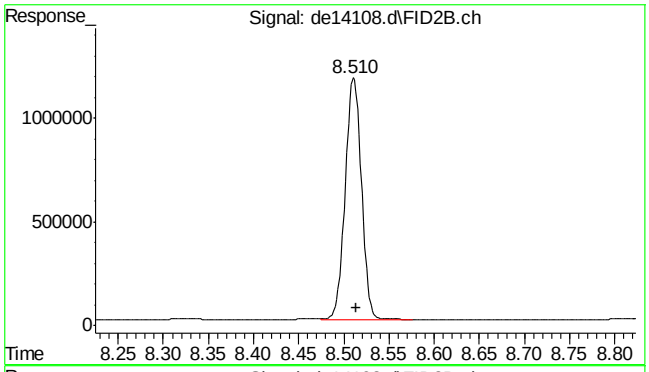
#30 c-14

R.T.: 7.182 min
Delta R.T.: -0.002 min
Response: 1449031
Conc: 19.62 µg/ml

9.3.4

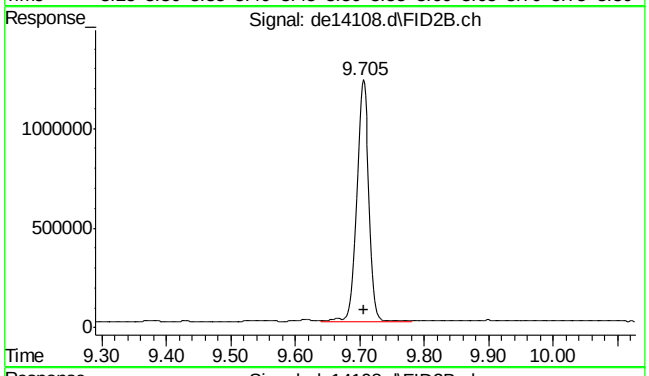
9

SGS ACCUTEST MC45678



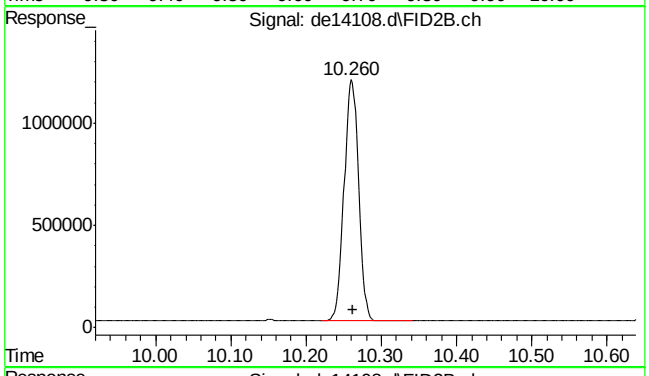
#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.003 min
Response: 1461092
Conc: 19.78 µg/ml



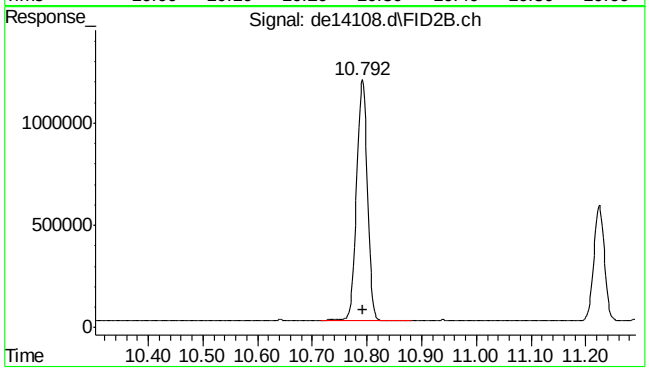
#32 c-18

R.T.: 9.705 min
Delta R.T.: -0.002 min
Response: 1575493
Conc: 21.33 µg/ml



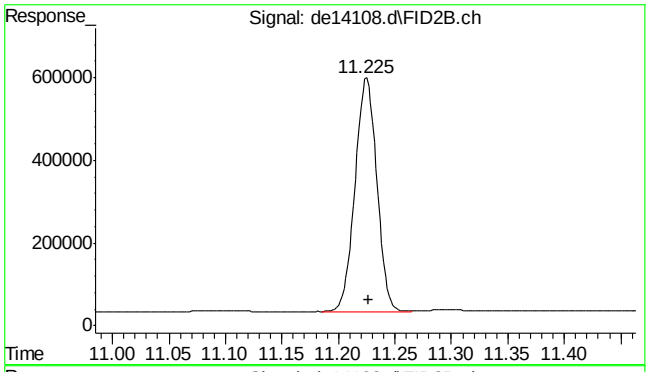
#33 c-19

R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 1581092
Conc: 23.67 µg/ml



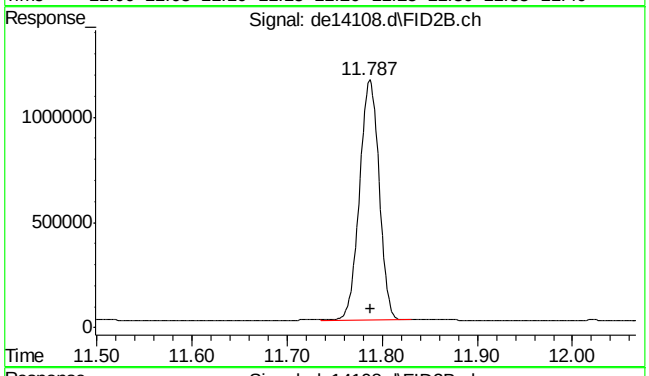
#34 c-20

R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1618497
Conc: 24.23 µg/ml



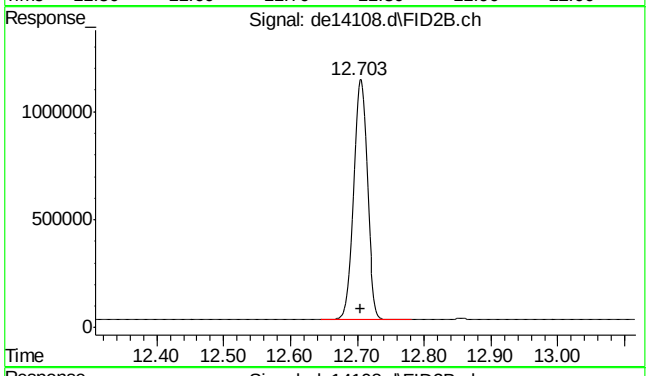
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 754607
Conc: 13.34 µg/ml



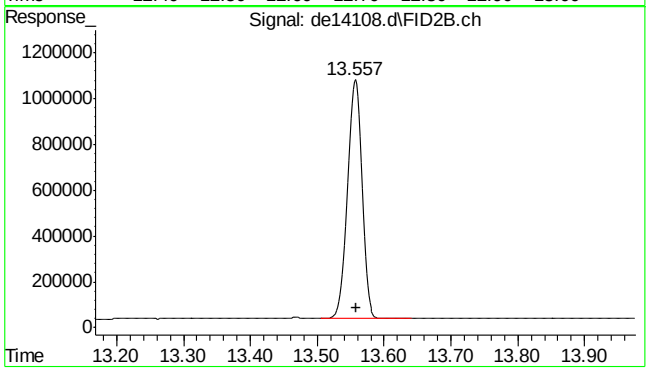
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 1631742
Conc: 24.42 µg/ml



#37 c-24

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 1615380
Conc: 24.18 µg/ml



#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1575439
Conc: 23.58 µg/ml

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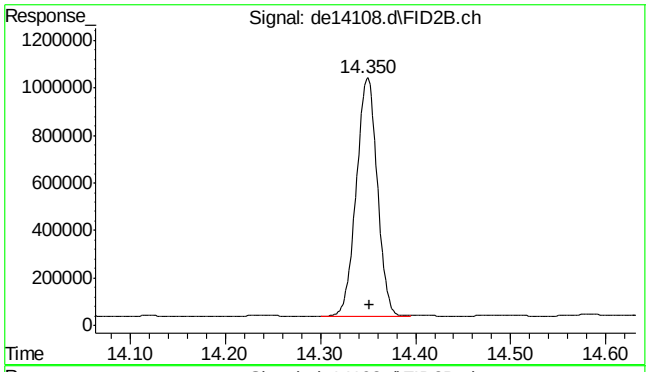
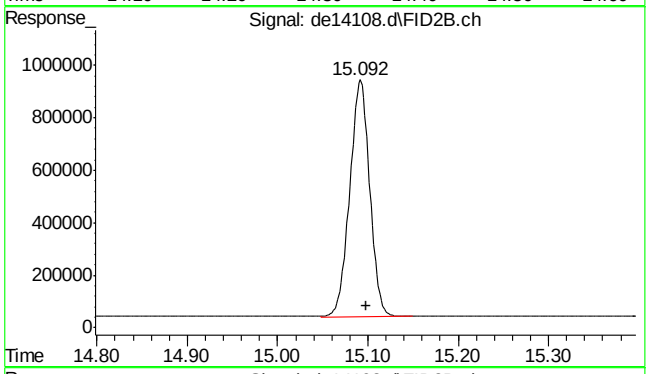


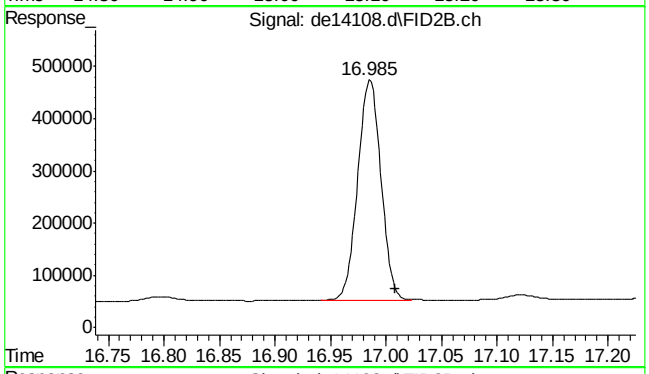
#39 c-28

R.T.: 14.350 min
Delta R.T.: -0.002 min
Response: 1529498
Conc: 22.89 µg/ml



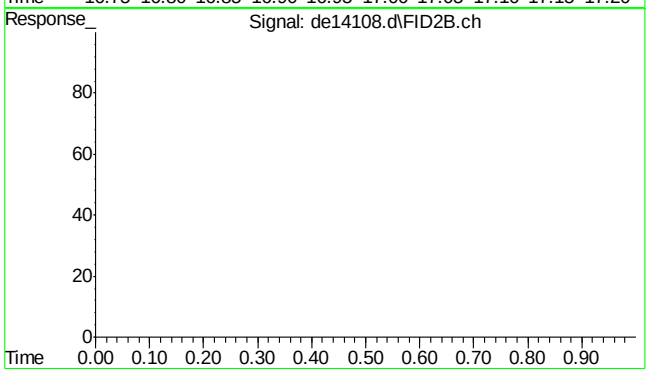
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1392324
Conc: 20.84 µg/ml



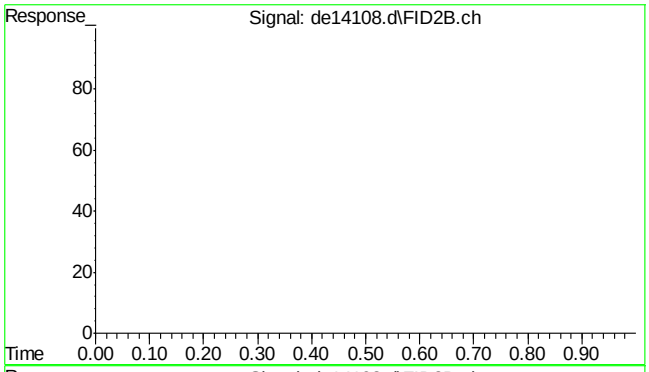
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 613089
Conc: 9.18 µg/ml m



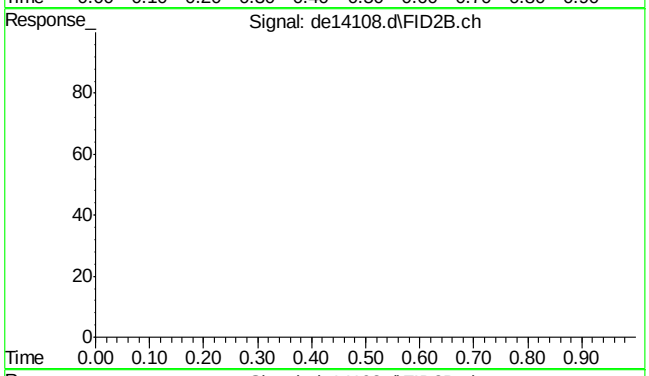
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



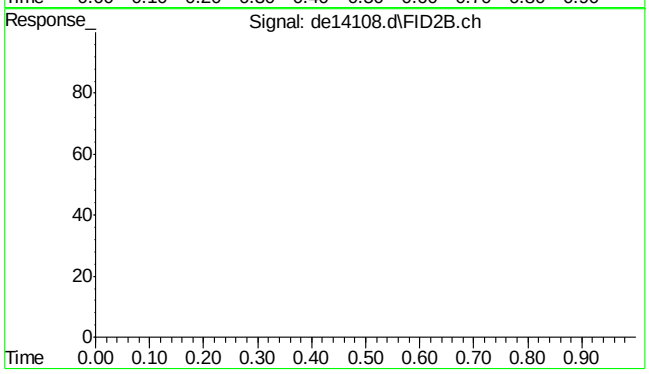
#43 bht

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.

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Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/19/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14146.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:48 am
Operator : thomasa
Sample : op47484-ms
Misc : op47484,gde792,11.06,,,2,,s
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 11:07:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1443346	15.649 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 78.25%#
6) s	2-bromonaphthalene	7.332	940847	14.992 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 74.96%#
11) s	o-terphenyl	9.870	1647190	16.082 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 80.41%#
35) s	1-chlorooctadecane	11.223	848209	14.993 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 74.97%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.203	34319520	349.469 µg/mlm
2)	naphthalene	5.155	1251661	12.136 µg/ml
3)	2-methylnaphthalene	6.053	1308323	12.766 µg/ml
5)	acenaphthylene	7.163	1434094	14.255 µg/ml
7)	acenaphthene	7.405	1644699	15.910 µg/ml
8)	fluorene	8.050	1650250	16.248 µg/ml
9)	phenanthrene	9.228	1750290	17.200 µg/ml
10)	anthracene	9.285	1900505	19.591 µg/ml
12)	fluoranthene	10.730	1962600	19.638 µg/ml
13)	pyrene	10.987	1978323	19.498 µg/ml
14)	benzo(a)anthracene	12.548	1987842	20.562 µg/ml
15)	chrysene	12.595	2008574	20.634 µg/ml
16)	benzo(B)fluoranthene	13.845	2029847	20.503 µg/mlm
17)	benzo(k)fluoranthene	13.872	1985175	21.007 µg/mlm
18)	benzo(a)pyrene	14.180	1987736	21.504 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.317	2002251	21.152 µg/ml
20)	dibenzo(ah)anthracene	15.360	1970428	21.559 µg/ml
21)	benzo(ghi)perylene	15.538	2112956	22.936 µg/ml
25) h	c-9	2.648	8098529	109.629 µg/mlm
41) h	c-36	17.008	12270473	183.672 µg/mlm

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

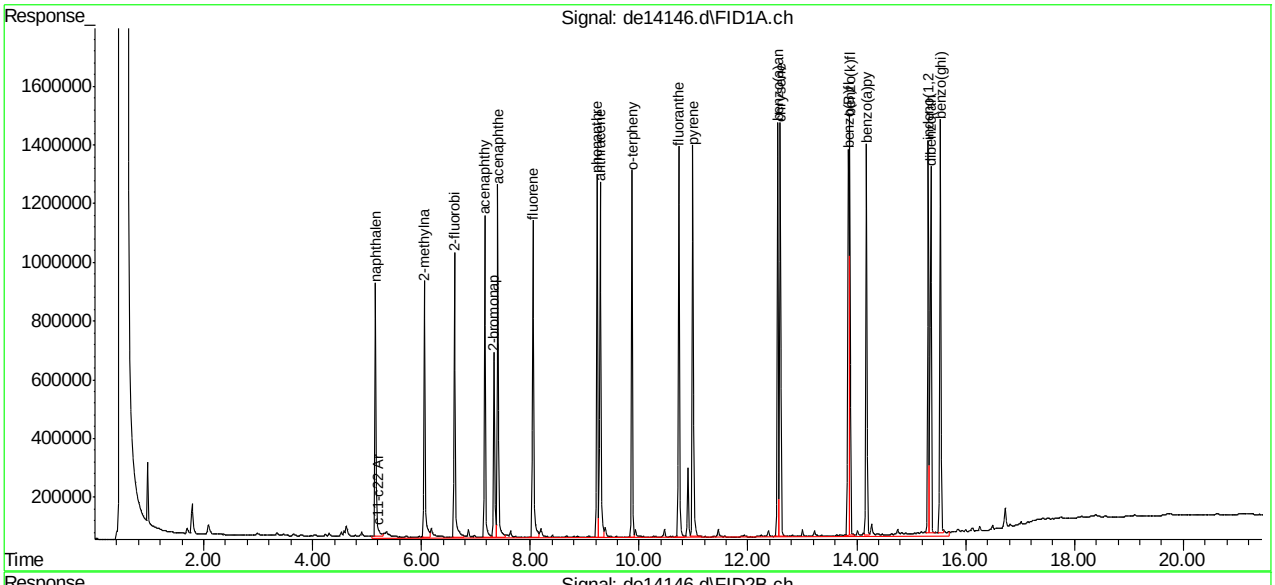
SGS ACCUTEST MC45678

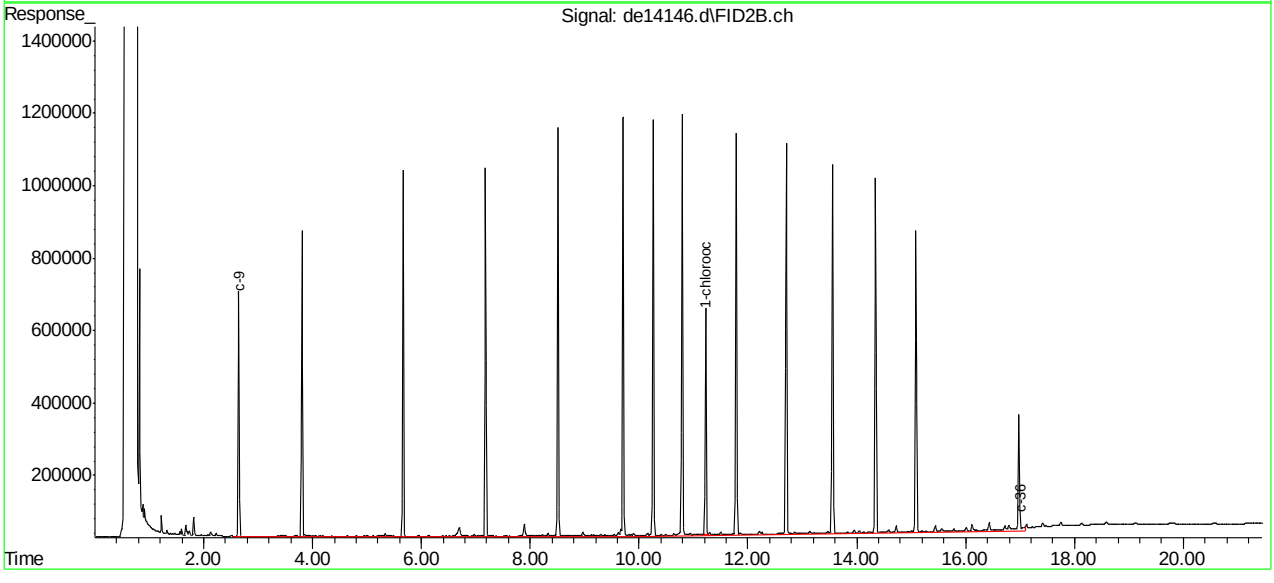
Quantitation Report (QT Reviewed)

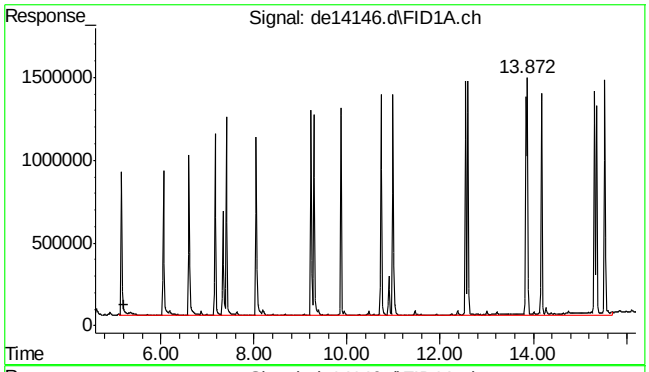
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14146.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:48 am
Operator : thomasa
Sample : op47484-ms
Misc : op47484,gde792,11.06,,,2,,s
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 11:07:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

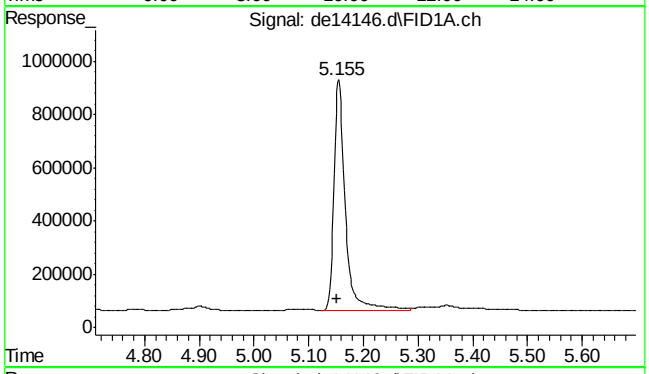






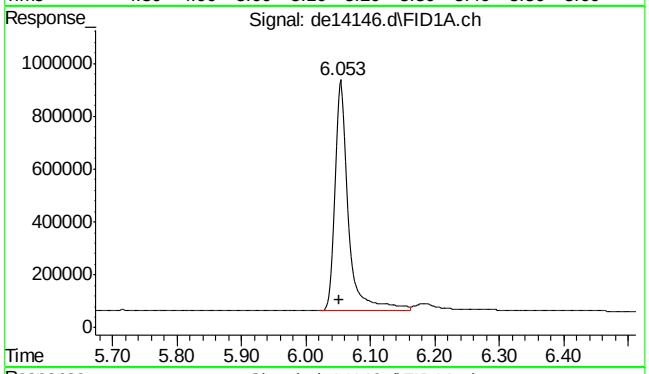
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 34319520
Conc: 349.47 µg/ml m



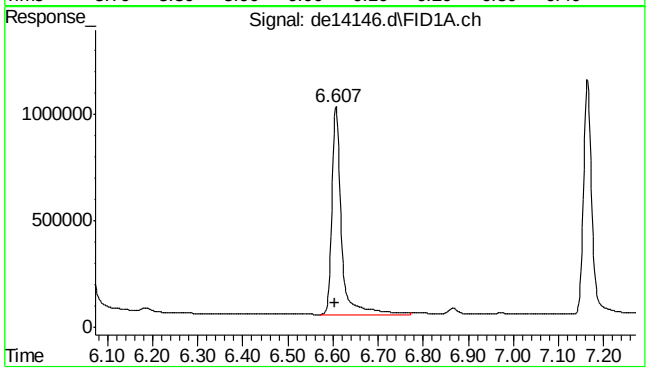
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.003 min
Response: 1251661
Conc: 12.14 µg/ml



#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.002 min
Response: 1308323
Conc: 12.77 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 1443346
Conc: 15.65 µg/ml

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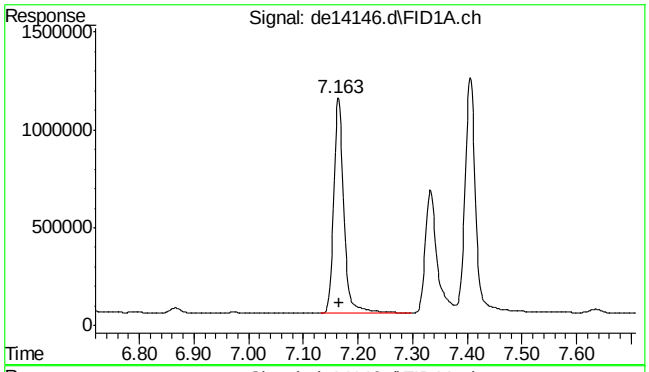
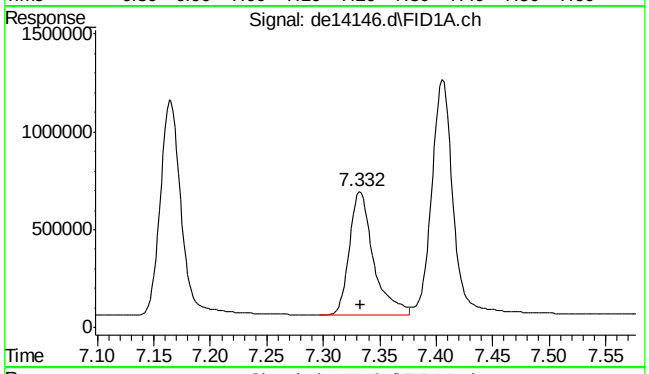


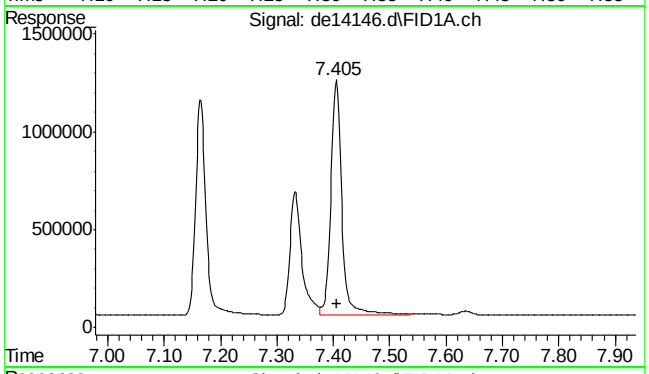
#5 acenaphthylene

R.T.: 7.163 min
Delta R.T.: -0.003 min
Response: 1434094
Conc: 14.26 µg/ml



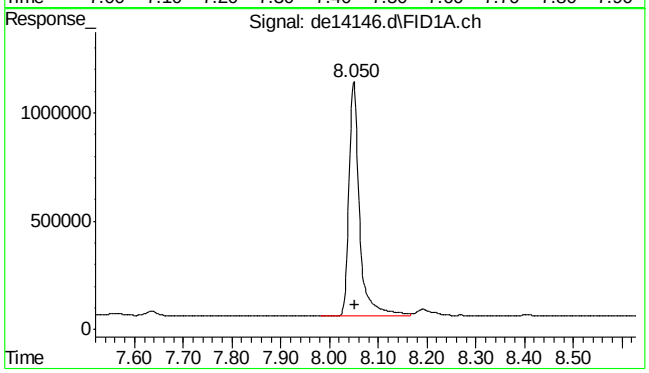
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: -0.002 min
Response: 940847
Conc: 14.99 µg/ml



#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: -0.002 min
Response: 1644699
Conc: 15.91 µg/ml



#8 fluorene

R.T.: 8.050 min
Delta R.T.: -0.002 min
Response: 1650250
Conc: 16.25 µg/ml

9.4.1

9

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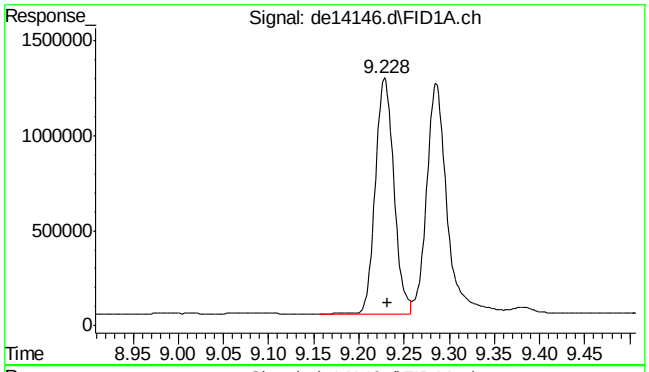
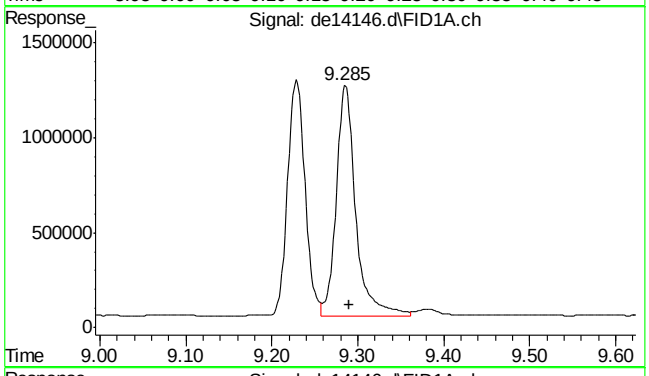


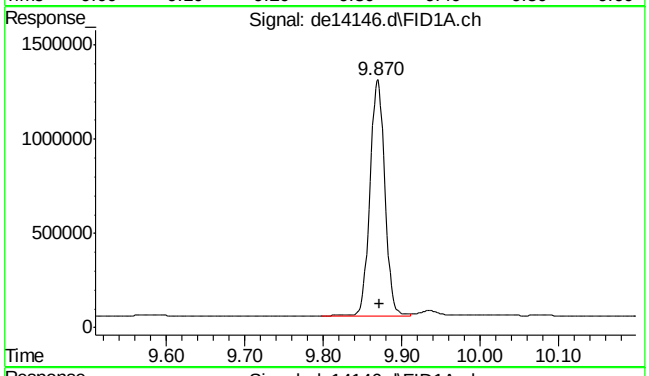
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: -0.003 min
Response: 1750290
Conc: 17.20 µg/ml



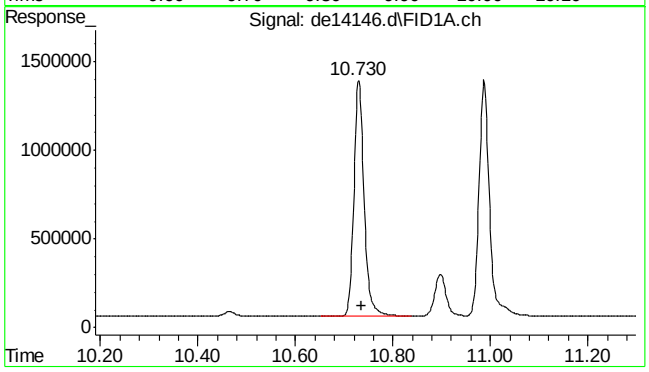
#10 anthracene

R.T.: 9.285 min
Delta R.T.: -0.005 min
Response: 1900505
Conc: 19.59 µg/ml



#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 1647190
Conc: 16.08 µg/ml



#12 fluoranthene

R.T.: 10.730 min
Delta R.T.: -0.005 min
Response: 1962600
Conc: 19.64 µg/ml

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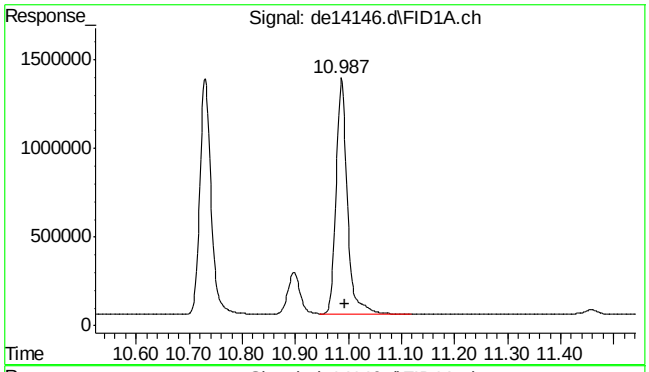
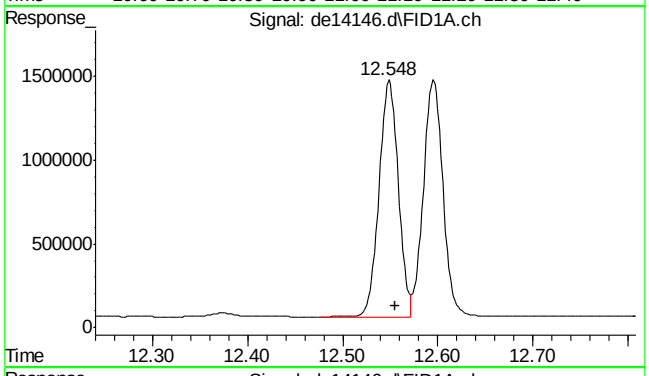


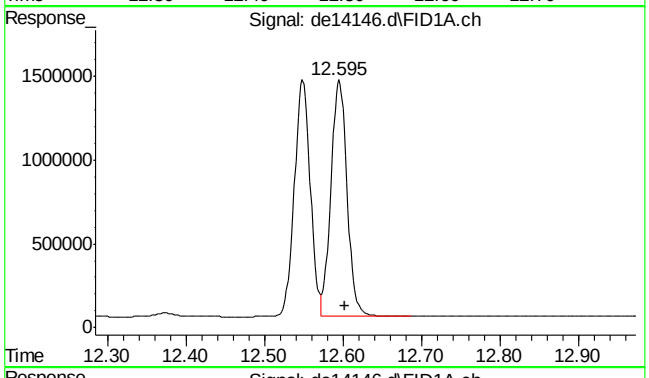
#13 pyrene

R.T.: 10.987 min
Delta R.T.: -0.007 min
Response: 1978323
Conc: 19.50 µg/ml



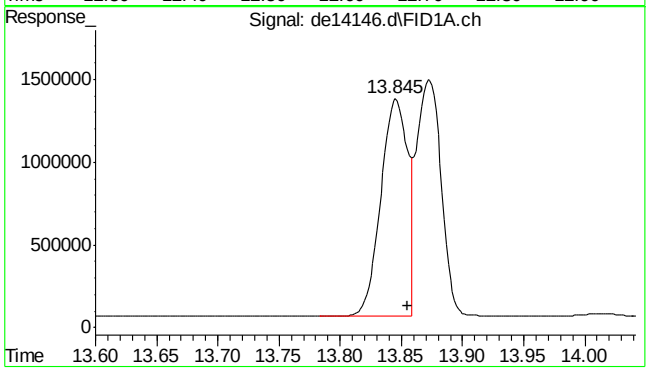
#14 benzo(a)anthracene

R.T.: 12.548 min
Delta R.T.: -0.007 min
Response: 1987842
Conc: 20.56 µg/ml



#15 chrysene

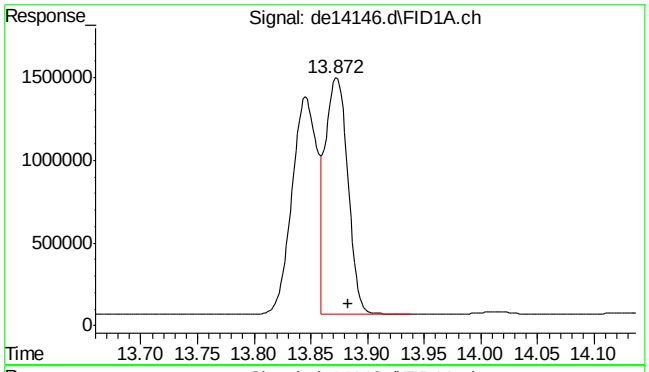
R.T.: 12.595 min
Delta R.T.: -0.008 min
Response: 2008574
Conc: 20.63 µg/ml



#16 benzo(B)fluoranthene

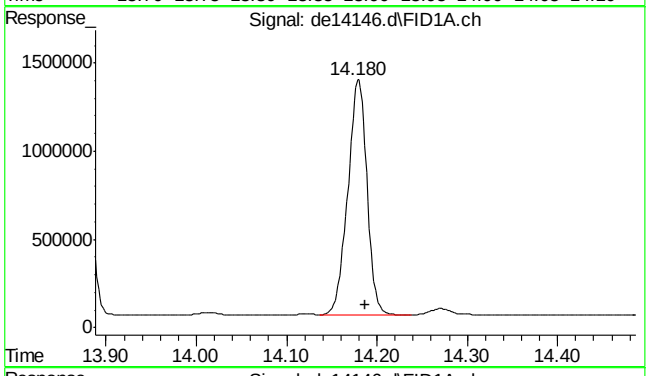
R.T.: 13.845 min
Delta R.T.: -0.010 min
Response: 2029847
Conc: 20.50 µg/ml m

SGS ACCUTEST MC45678



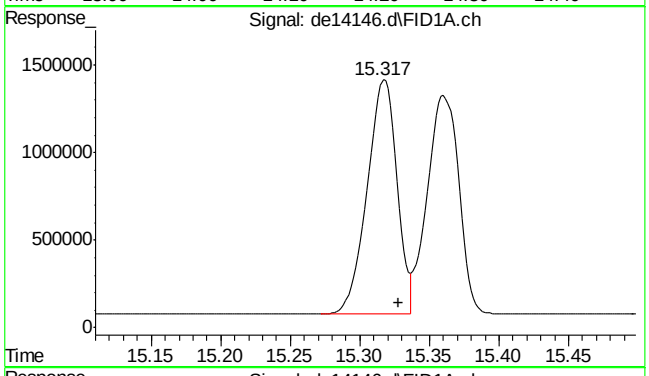
#17 benzo(k)fluoranthene

R.T.: 13.872 min
Delta R.T.: -0.012 min
Response: 1985175
Conc: 21.01 µg/ml m



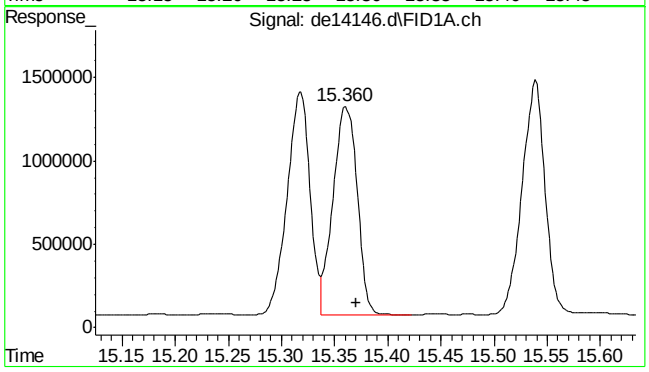
#18 benzo(a)pyrene

R.T.: 14.180 min
Delta R.T.: -0.007 min
Response: 1987736
Conc: 21.50 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.317 min
Delta R.T.: -0.012 min
Response: 2002251
Conc: 21.15 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.360 min
Delta R.T.: -0.010 min
Response: 1970428
Conc: 21.56 µg/ml

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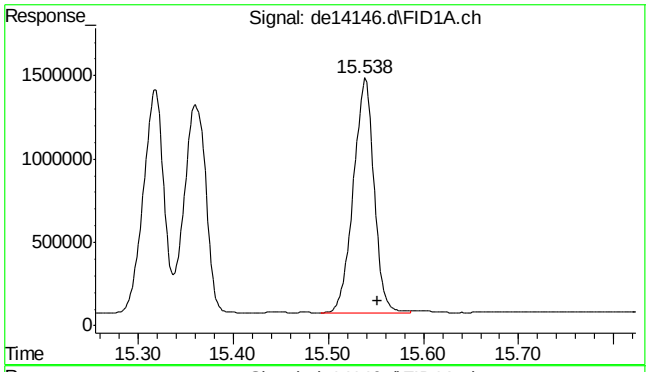
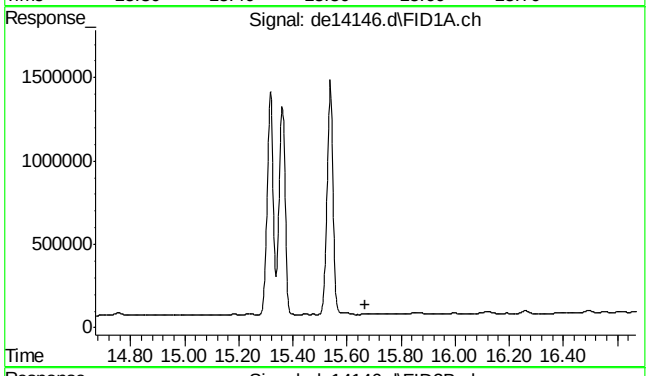


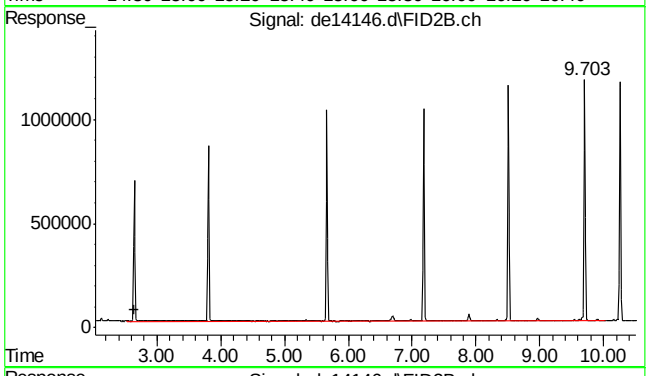
#21 benzo(ghi)perylene

R.T.: 15.538 min
Delta R.T.: -0.013 min
Response: 2112956
Conc: 22.94 µg/ml



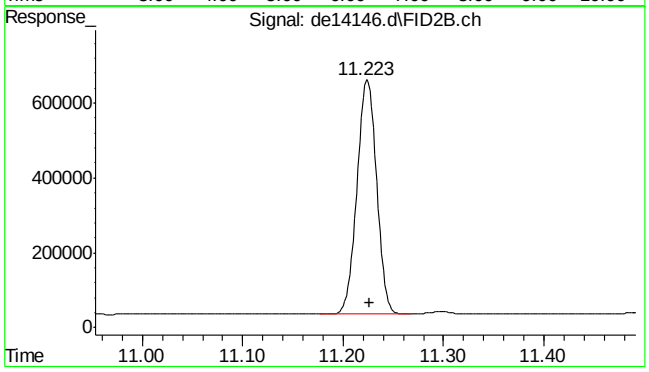
#22 bht

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: 8098529
Conc: 109.63 µg/ml m



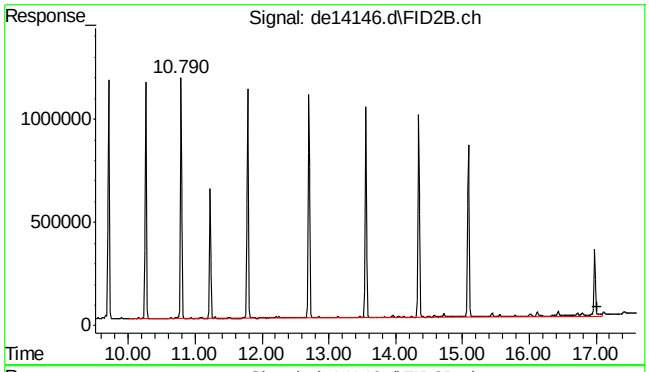
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 848209
Conc: 14.99 µg/ml

9.4.1

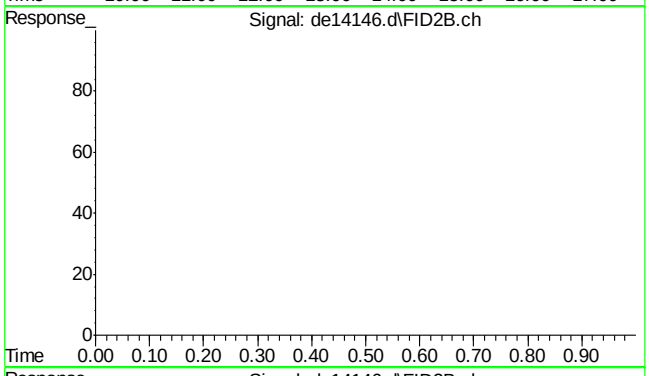
9

SGS ACCUTEST MC45678



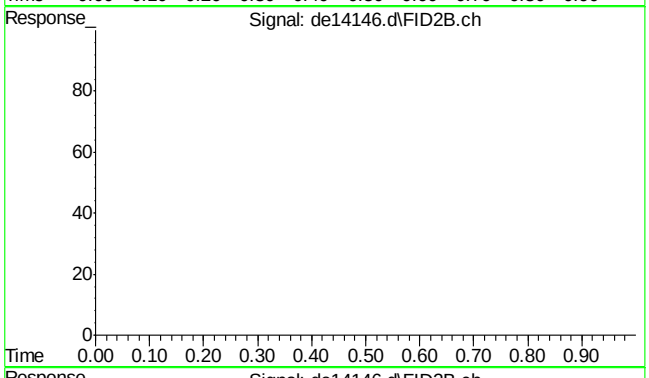
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 12270473
Conc: 183.67 µg/ml m



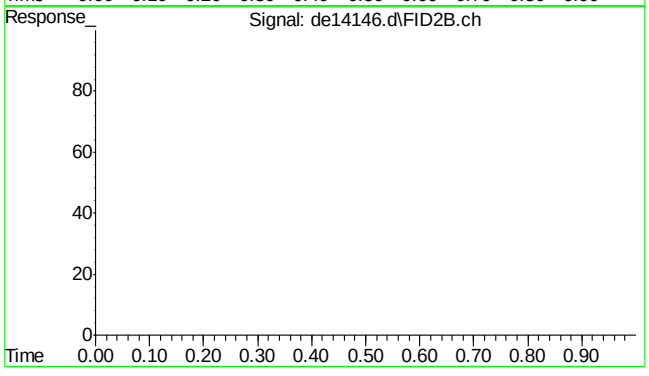
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

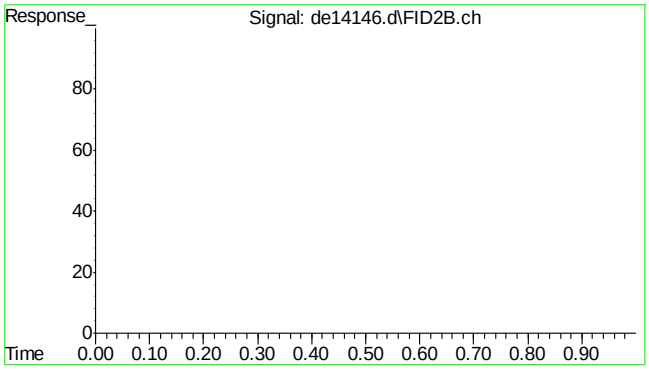
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.1

9

de14146.d EPH160518W.M Thu May 19 11:14:55 2016 Page 11

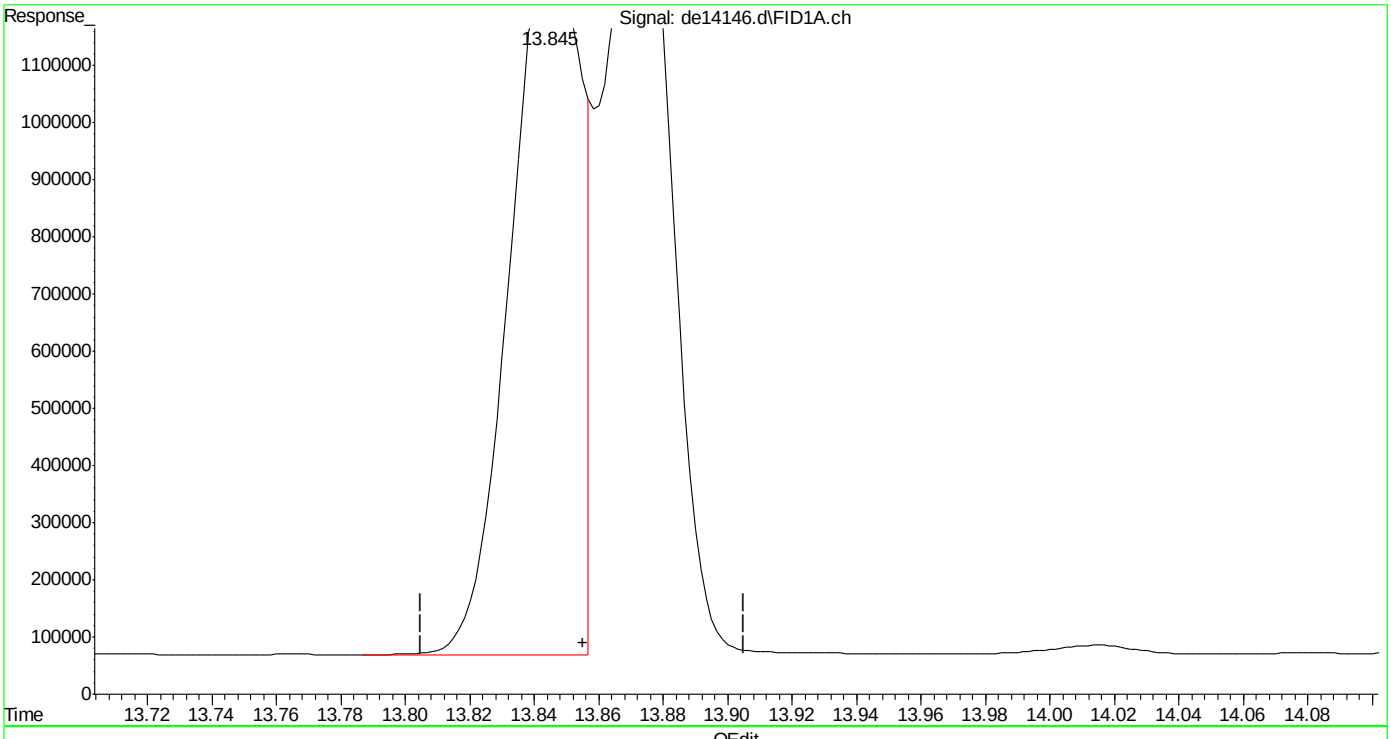
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14146.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:48 am
Operator : thomasa
Sample : op47484-ms
Misc : op47484,gde792,11.06,,,2,,s
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.845min 19.539 µg/ml
response 1934409

(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:05:31 2016

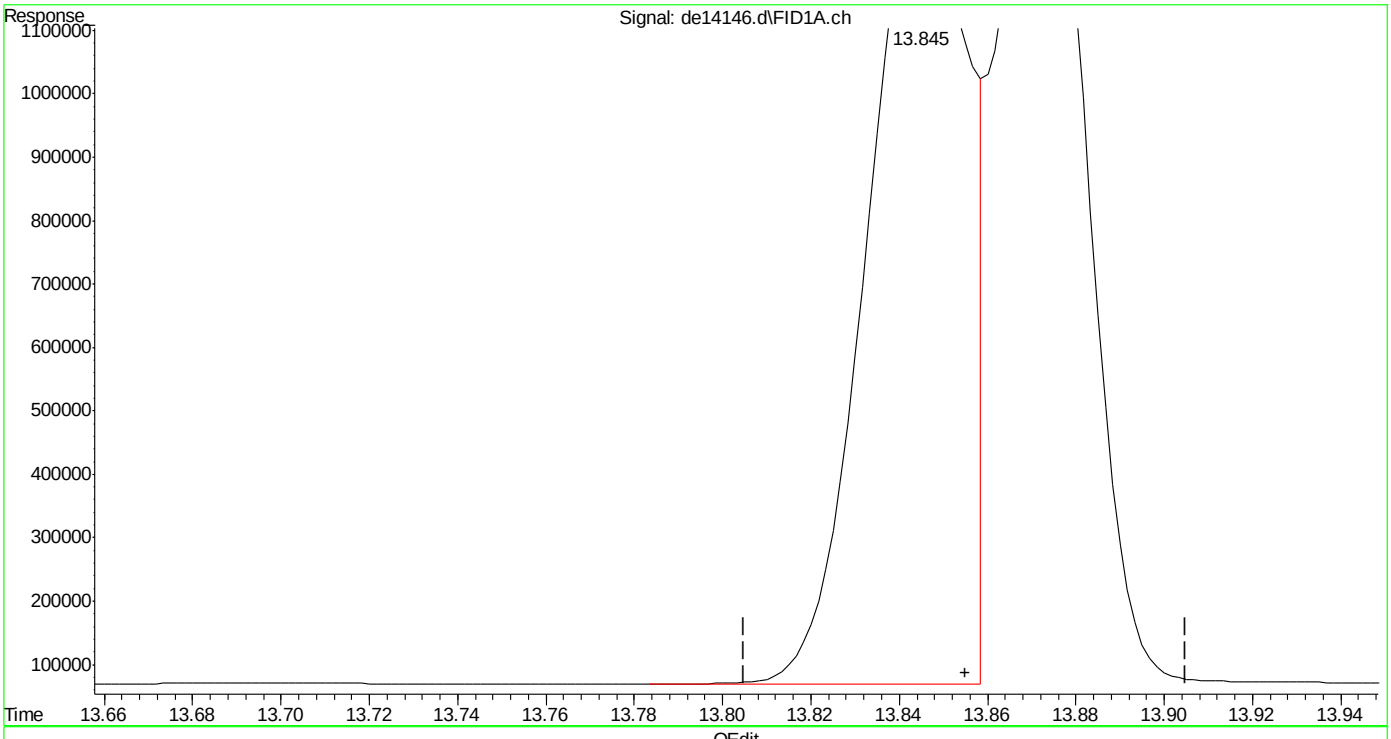
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14146.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:48 am
Operator : thomasa
Sample : op47484-ms
Misc : op47484,gde792,11.06,,,2,,s
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.845min 20.503 µg/ml m
response 2029847

(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:05:43 2016

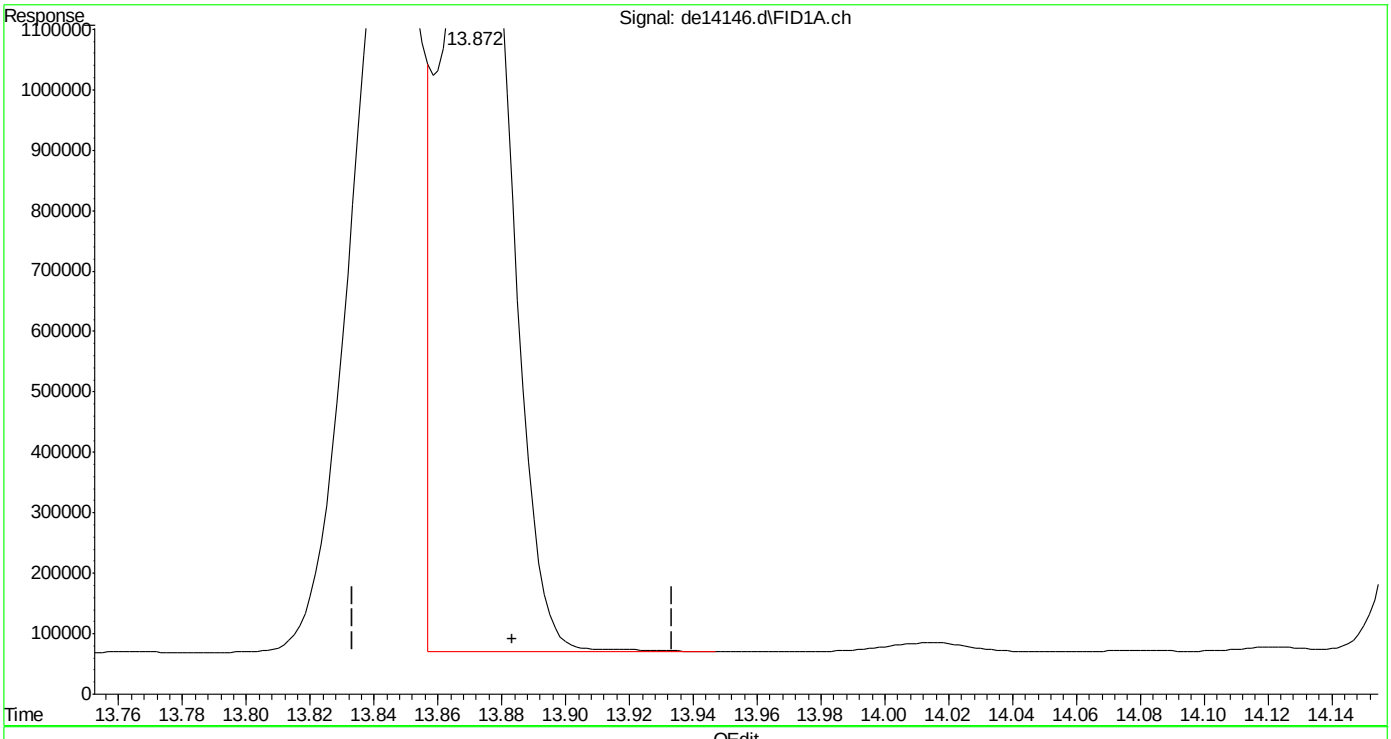
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14146.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:48 am
Operator : thomasa
Sample : op47484-ms
Misc : op47484,gde792,11.06,,,2,,s
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.872min 21.957 µg/ml
response 2074999

(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:05:49 2016

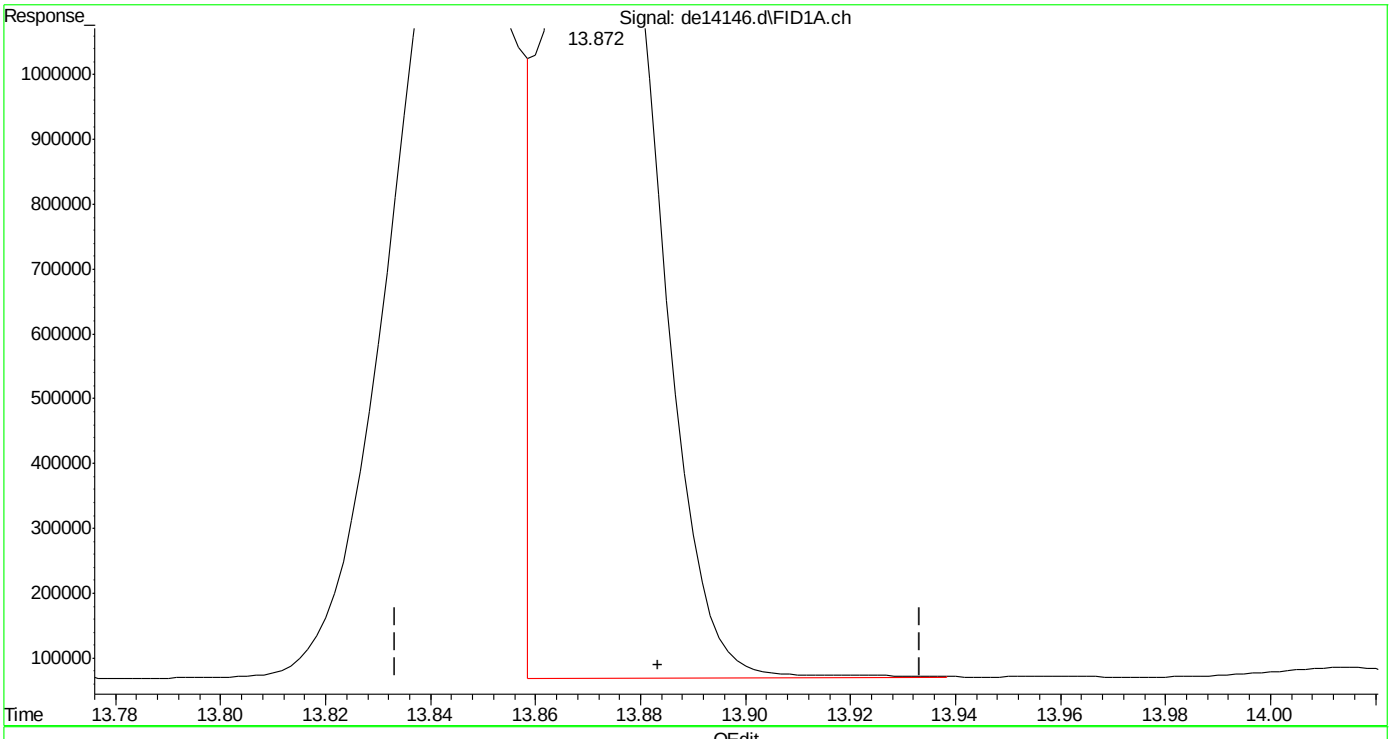
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14146.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:48 am
Operator : thomasa
Sample : op47484-ms
Misc : op47484,gde792,11.06,,,2,,s
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.872min 21.007 µg/ml m
response 1985175

(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:06:00 2016

SGS ACCUTEST MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/19/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 11:10:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	1529691	16.586 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 82.93%#	
6) s 2-bromonaphthalene	7.333	950790	15.151 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 75.75%#	
11) s o-terphenyl	9.870	1761290	17.196 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 85.98%#	
35) s 1-chlorooctadecane	11.223	1015524	17.950 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 89.75%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	36836801	375.102 µg/mlm
2) naphthalene	5.155	1487997	14.427 µg/ml
3) 2-methylnaphthalene	6.053	1575746	15.376 µg/ml
5) acenaphthylene	7.165	1715808	17.055 µg/ml
7) acenaphthene	7.407	1898299	18.363 µg/ml
8) fluorene	8.050	1842017	18.136 µg/ml
9) phenanthrene	9.228	1881753	18.492 µg/ml
10) anthracene	9.287	2020764	20.831 µg/ml
12) fluoranthene	10.732	2071172	20.724 µg/ml
13) pyrene	10.987	2090280	20.602 µg/ml
14) benzo(a)anthracene	12.550	2075614	21.470 µg/mlm
15) chrysene	12.597	2119520	21.774 µg/mlm
16) benzo(B)fluoranthene	13.847	2265495	22.883 µg/ml
17) benzo(k)fluoranthene	13.873	1932967	20.454 µg/ml
18) benzo(a)pyrene	14.180	2077175	22.472 µg/ml
19) indeno(1,2,3-cd)pyrene	15.318	2135631	22.562 µg/mlm
20) dibenzo(ah)anthracene	15.362	2077747	22.733 µg/mlm
21) benzo(ghi)perylene	15.538	2224422	24.146 µg/ml
25) h c-9	2.648	8000356	108.300 µg/mlm
41) h c-36	17.008	12088648	180.950 µg/mlm

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

9.4.2
9

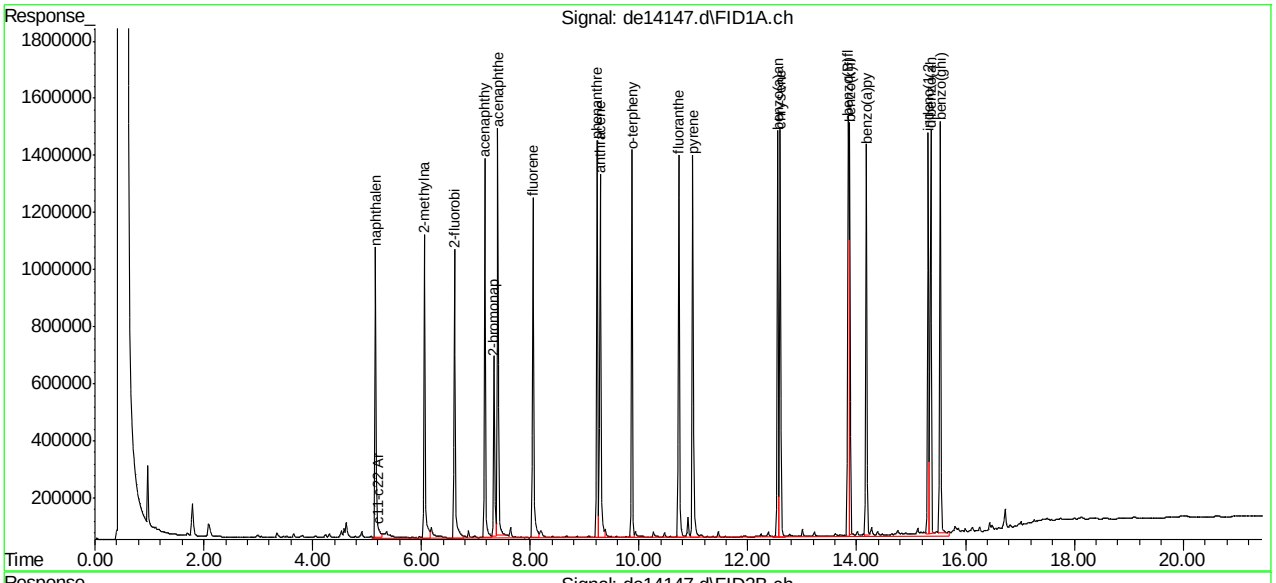
SGS ACCUTEST MC45678

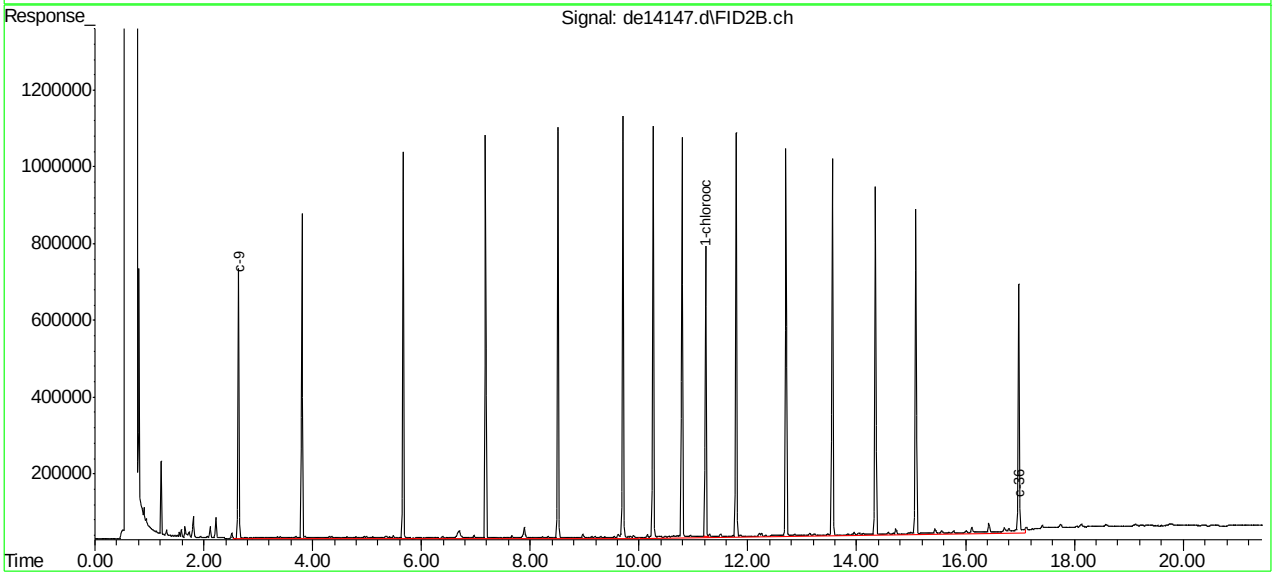
Quantitation Report (QT Reviewed)

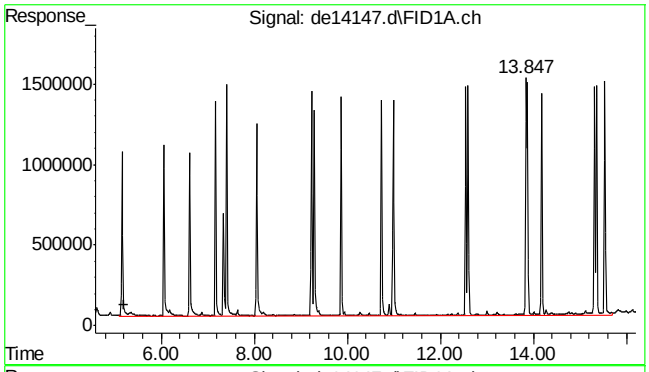
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 11:10:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

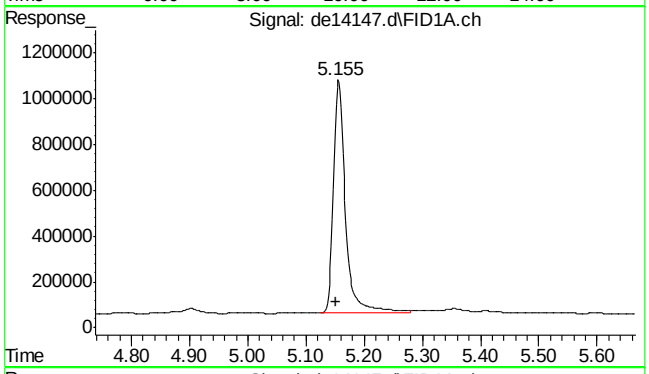






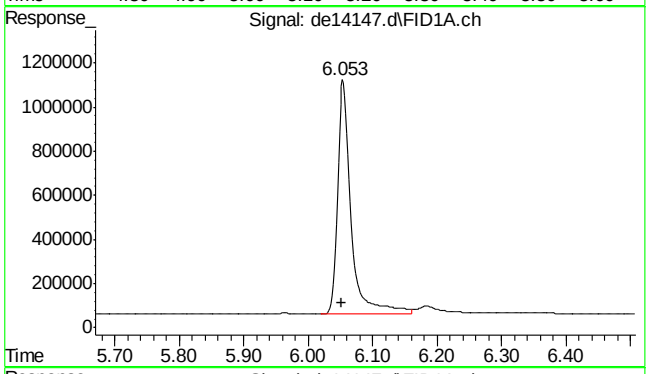
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 36836801
Conc: 375.10 µg/ml m



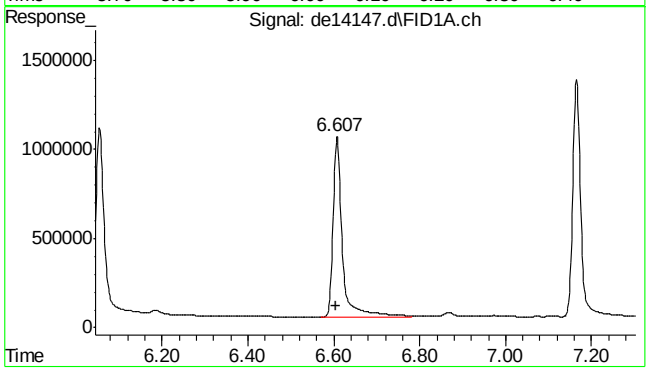
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.003 min
Response: 1487997
Conc: 14.43 µg/ml



#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.002 min
Response: 1575746
Conc: 15.38 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 1529691
Conc: 16.59 µg/ml

9.4.2

9

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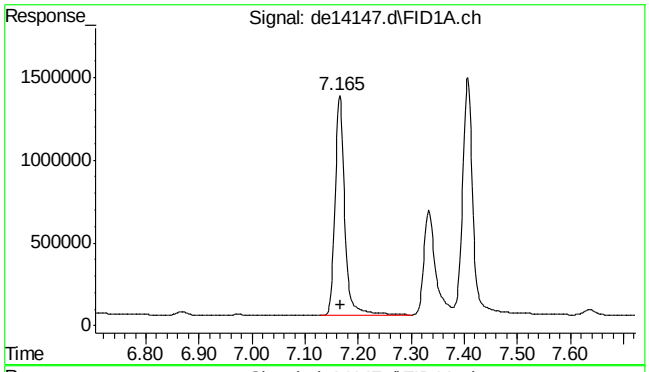
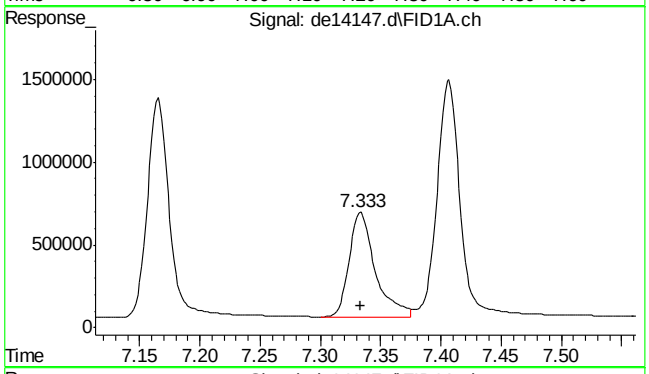


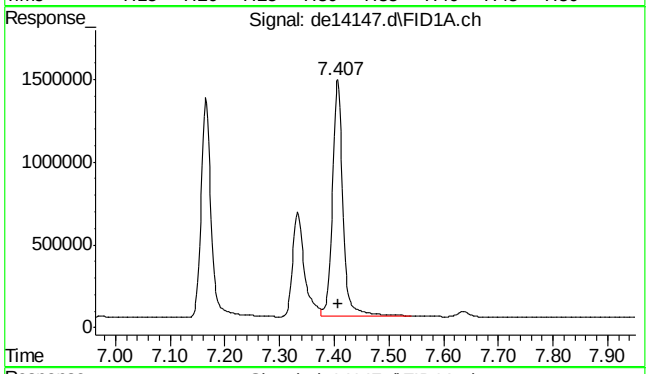
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: -0.002 min
Response: 1715808
Conc: 17.06 µg/ml



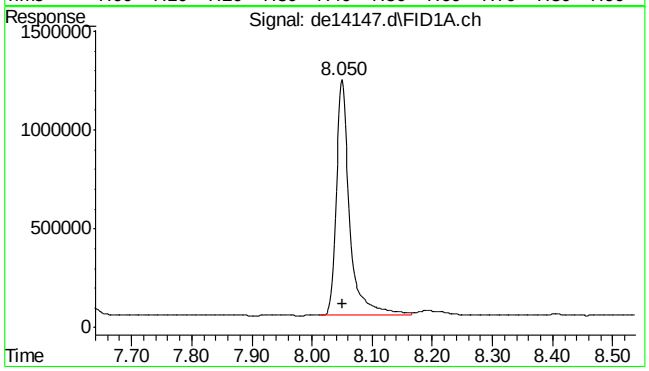
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 950790
Conc: 15.15 µg/ml



#7 acenaphthene

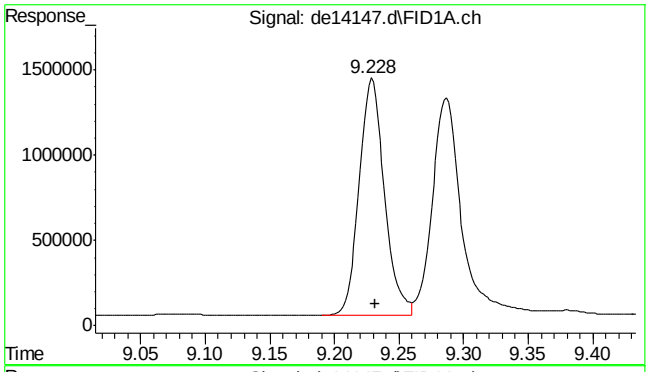
R.T.: 7.407 min
Delta R.T.: 0.000 min
Response: 1898299
Conc: 18.36 µg/ml



#8 fluorene

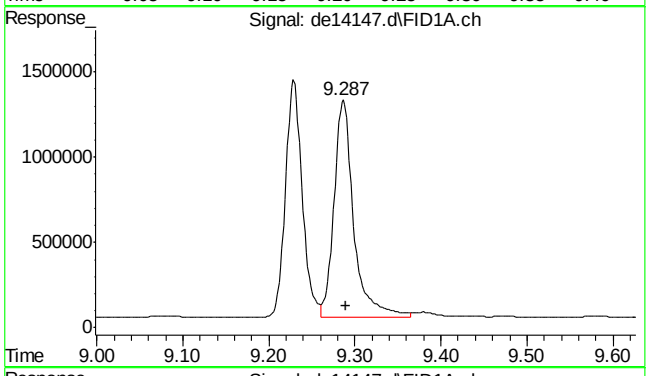
R.T.: 8.050 min
Delta R.T.: -0.002 min
Response: 1842017
Conc: 18.14 µg/ml

SGS ACCUTEST MC45678



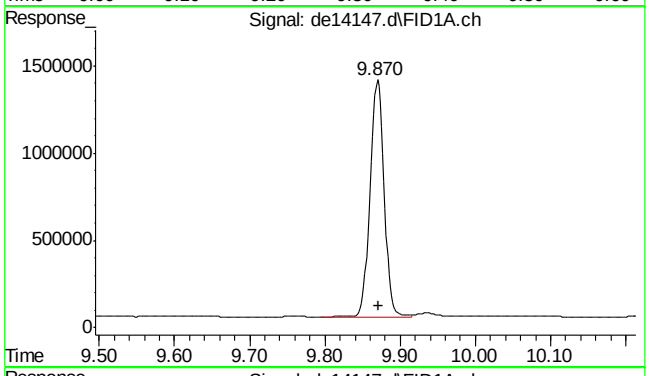
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: -0.003 min
Response: 1881753
Conc: 18.49 µg/ml



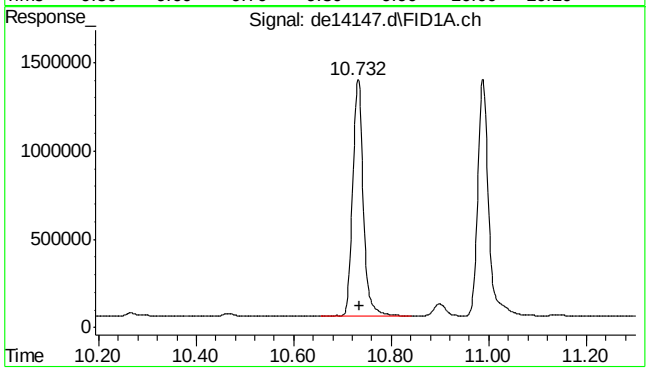
#10 anthracene

R.T.: 9.287 min
Delta R.T.: -0.003 min
Response: 2020764
Conc: 20.83 µg/ml



#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 1761290
Conc: 17.20 µg/ml



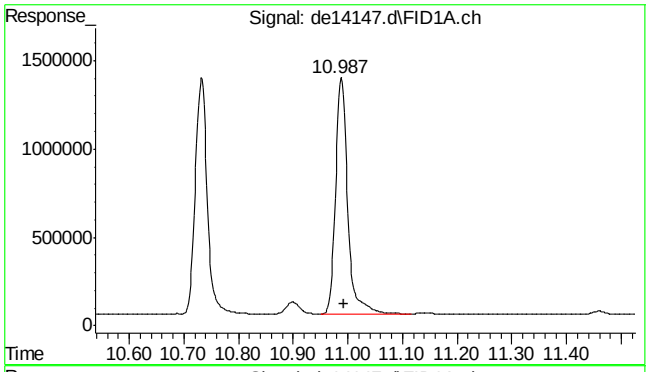
#12 fluoranthene

R.T.: 10.732 min
Delta R.T.: -0.003 min
Response: 2071172
Conc: 20.72 µg/ml

9.4.2

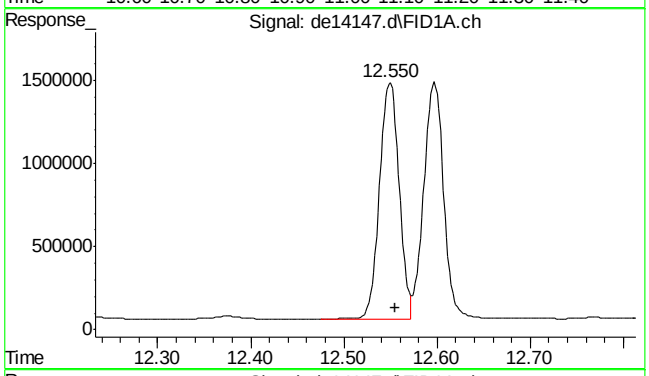
9

SGS ACCUTEST MC45678



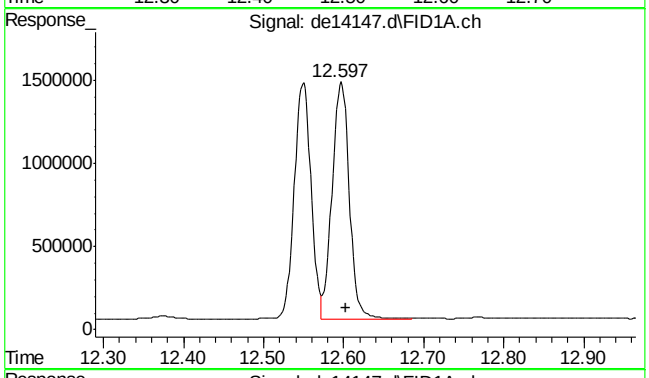
#13 pyrene

R.T.: 10.987 min
Delta R.T.: -0.007 min
Response: 2090280
Conc: 20.60 µg/ml



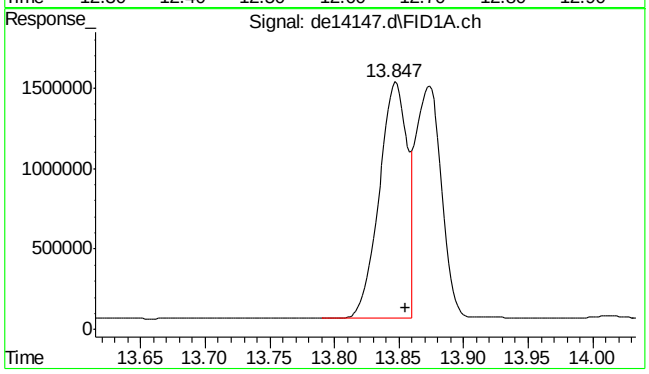
#14 benzo(a)anthracene

R.T.: 12.550 min
Delta R.T.: -0.005 min
Response: 2075614
Conc: 21.47 µg/ml m



#15 chrysene

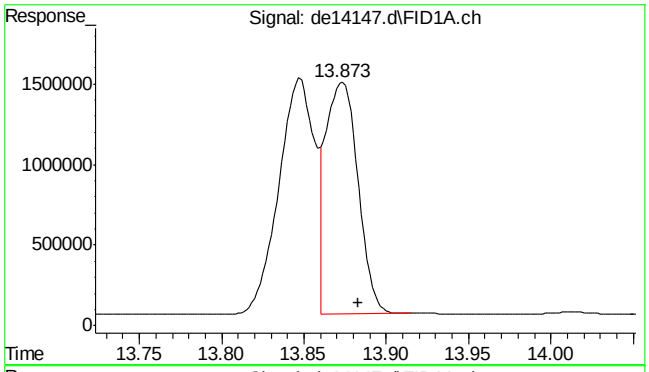
R.T.: 12.597 min
Delta R.T.: -0.007 min
Response: 2119520
Conc: 21.77 µg/ml m



#16 benzo(B)fluoranthene

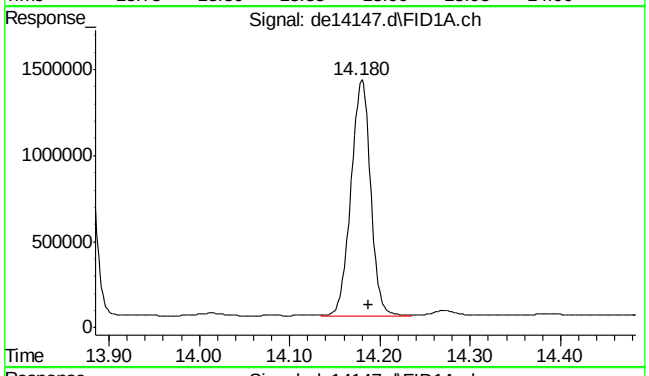
R.T.: 13.847 min
Delta R.T.: -0.008 min
Response: 2265495
Conc: 22.88 µg/ml

SGS ACCUTEST MC45678



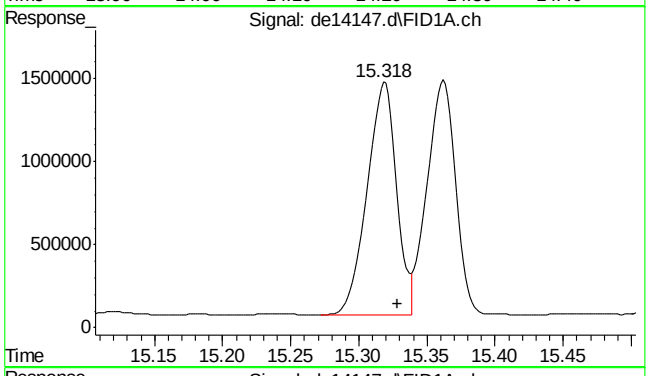
#17 benzo(k)fluoranthene

R.T.: 13.873 min
Delta R.T.: -0.010 min
Response: 1932967
Conc: 20.45 µg/ml



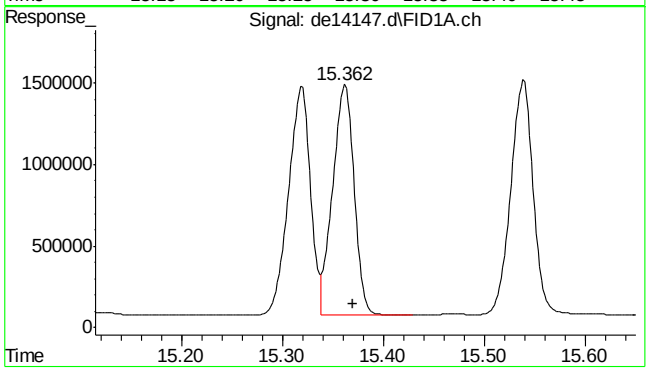
#18 benzo(a)pyrene

R.T.: 14.180 min
Delta R.T.: -0.007 min
Response: 2077175
Conc: 22.47 µg/ml



#19 indeno(1,2,3-cd)pyrene

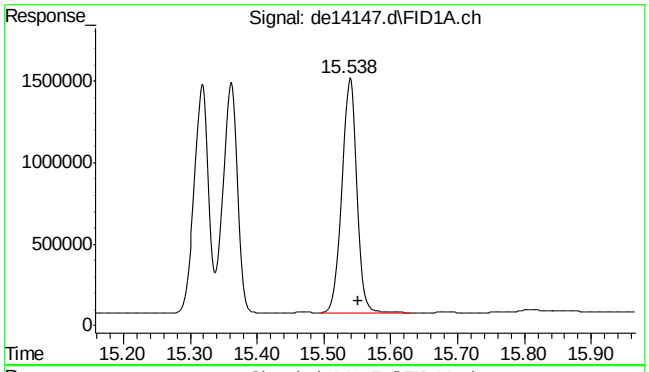
R.T.: 15.318 min
Delta R.T.: -0.010 min
Response: 2135631
Conc: 22.56 µg/ml m



#20 dibenzo(ah)anthracene

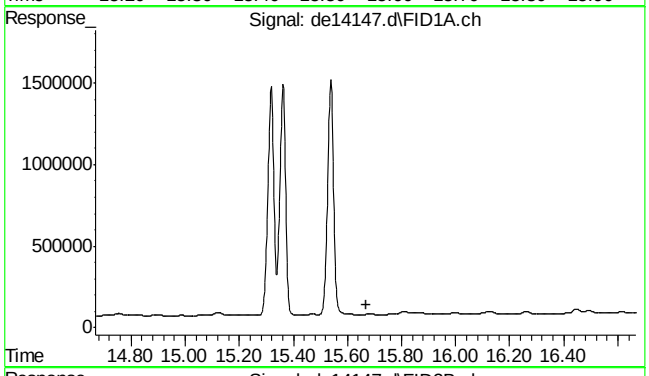
R.T.: 15.362 min
Delta R.T.: -0.008 min
Response: 2077747
Conc: 22.73 µg/ml m

SGS ACCUTEST MC45678



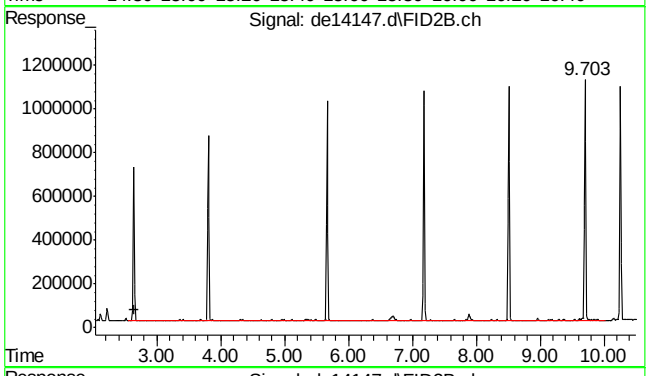
#21 benzo(ghi)perylene

R.T.: 15.538 min
Delta R.T.: -0.013 min
Response: 2224422
Conc: 24.15 µg/ml



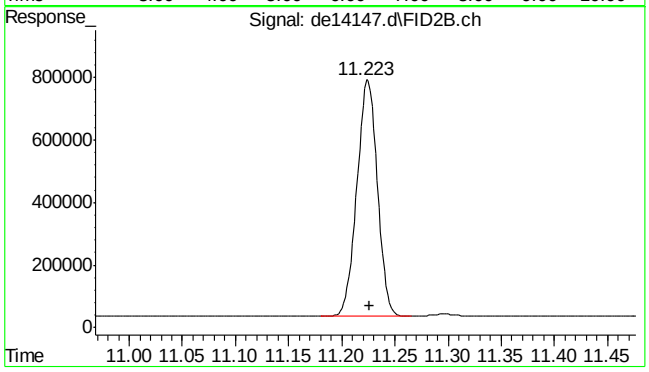
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



#25 c-9

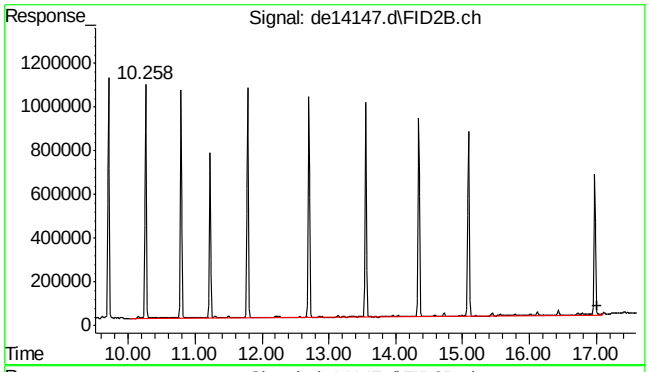
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 8000356
Conc: 108.30 µg/ml m



#35 1-chlorooctadecane

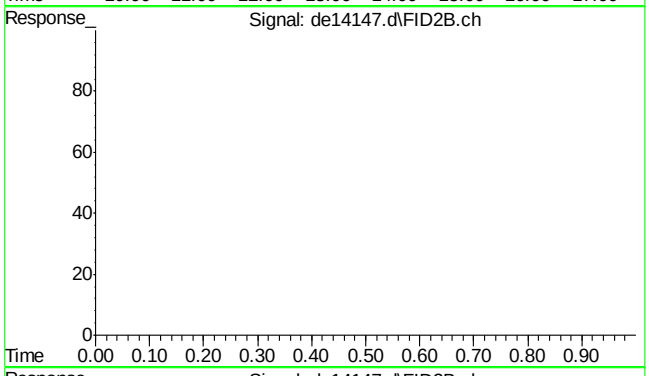
R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 1015524
Conc: 17.95 µg/ml

SGS ACCUTEST MC45678



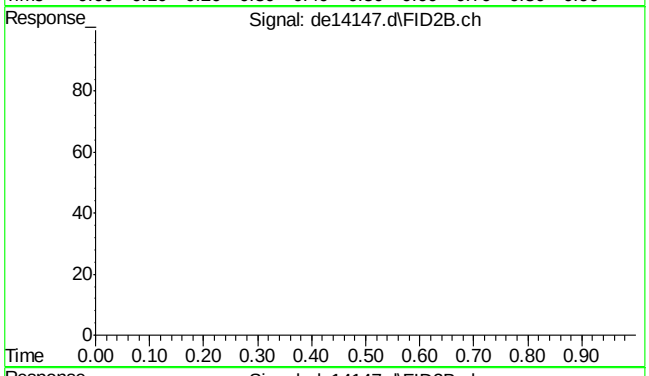
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 12088648
Conc: 180.95 µg/ml m



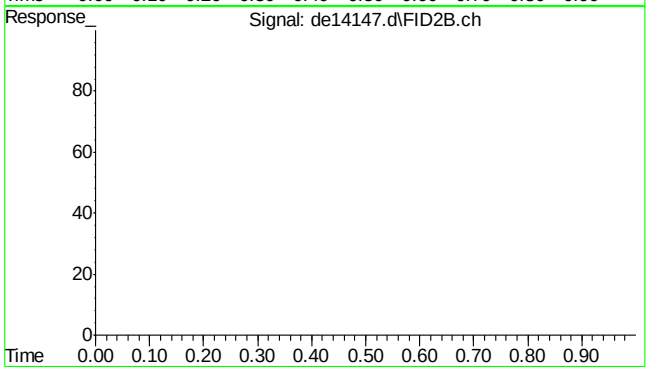
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

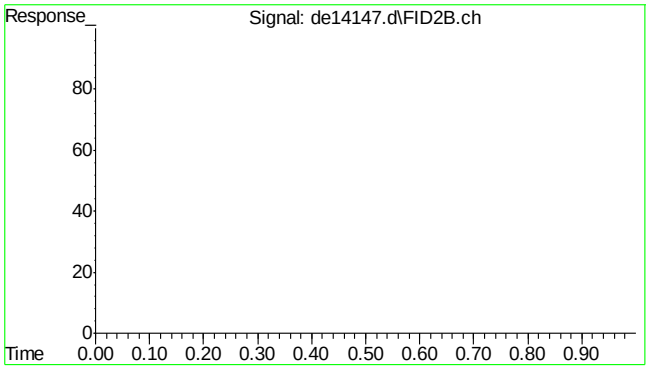
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.2

9

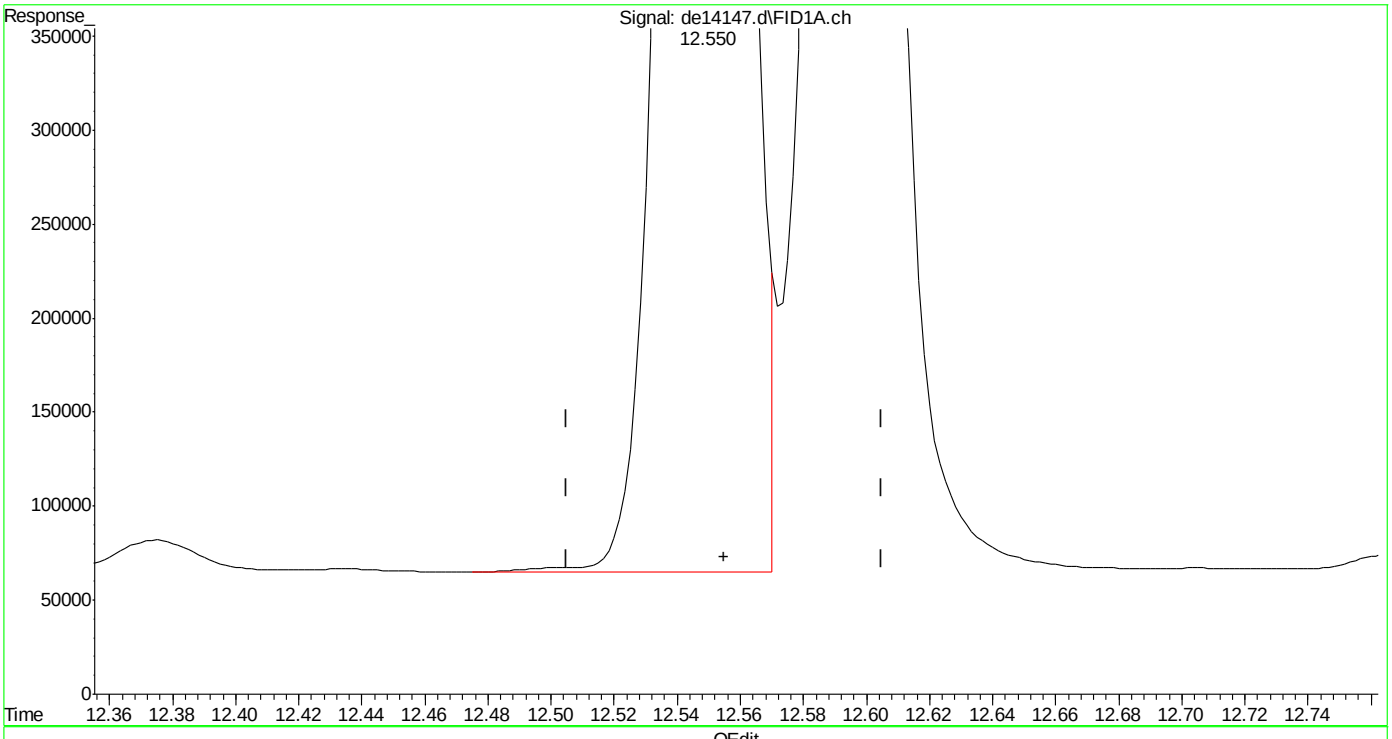
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
12.550min 21.317 µg/ml
response 2060833

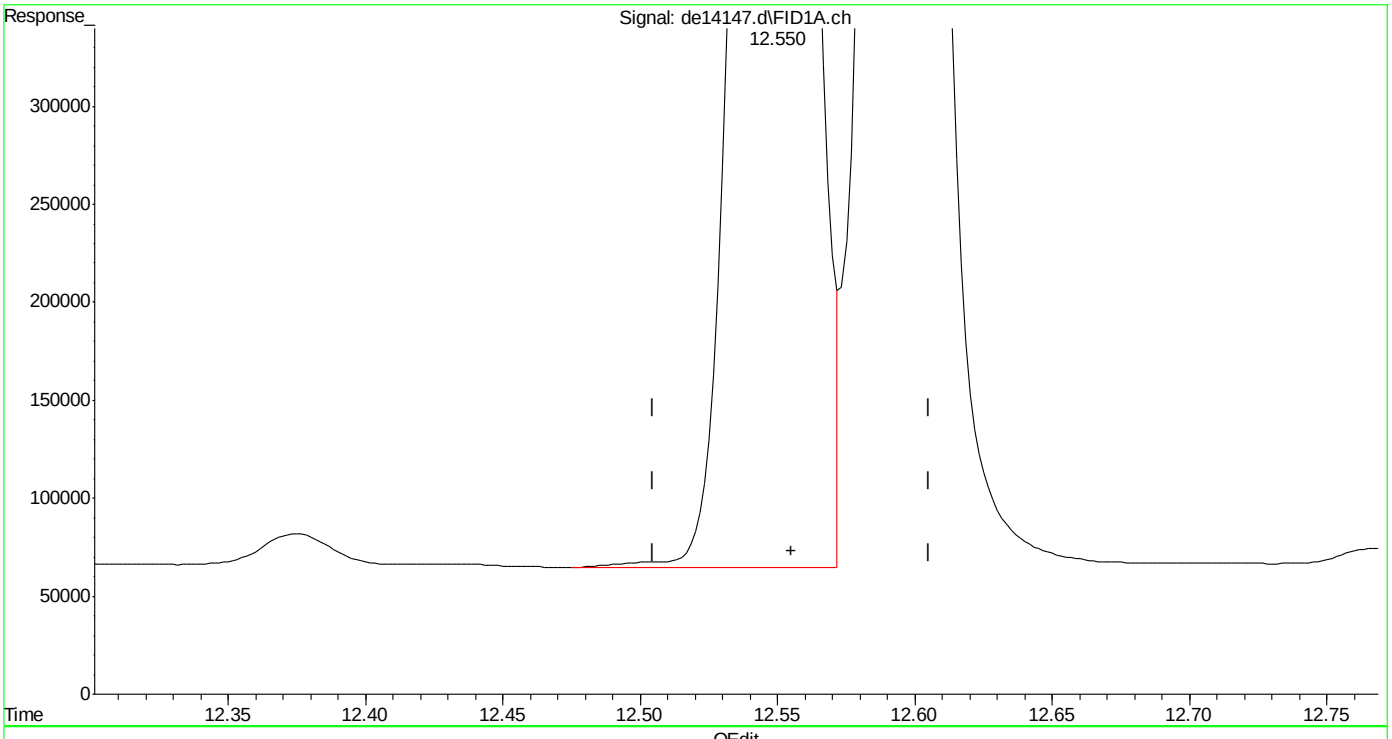
(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:08:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
12.550min 21.470 µg/ml m
response 2075614

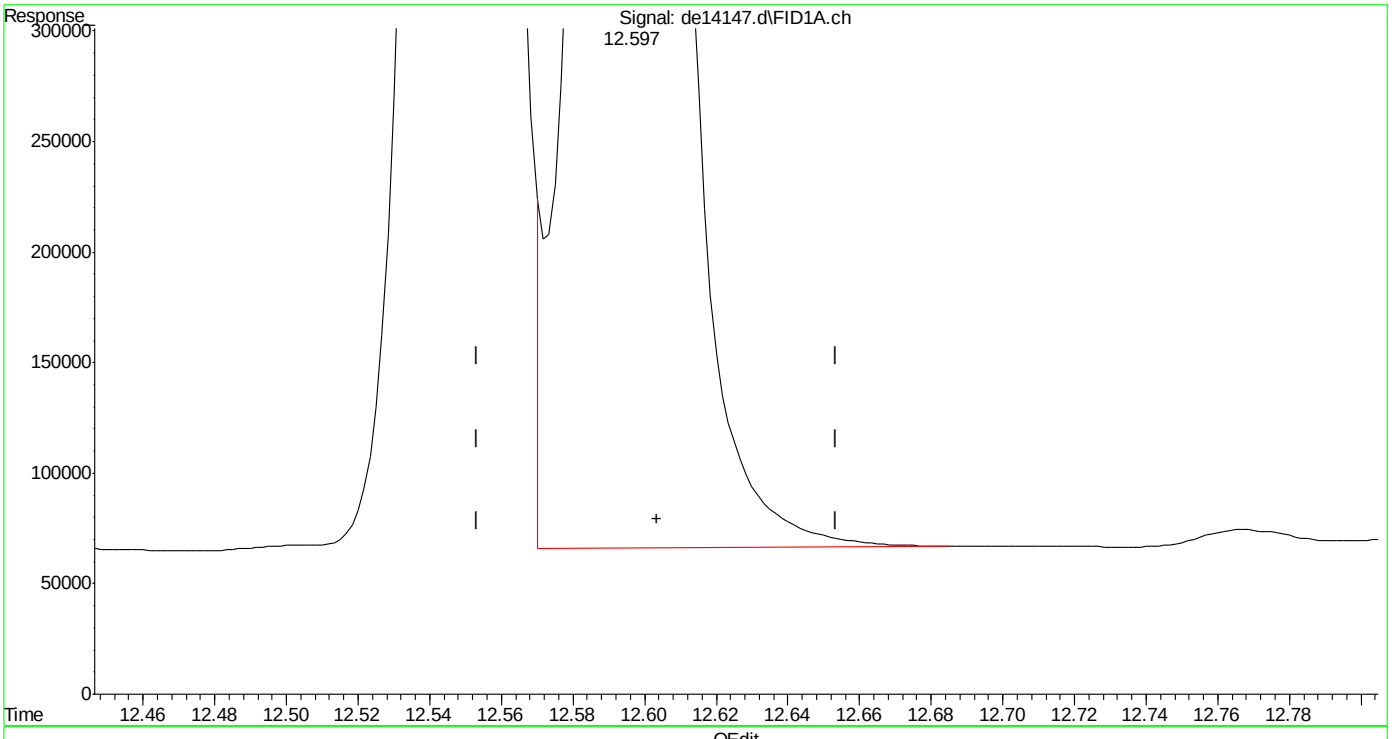
(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:08:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.597min 21.800 µg/ml
response 2122019

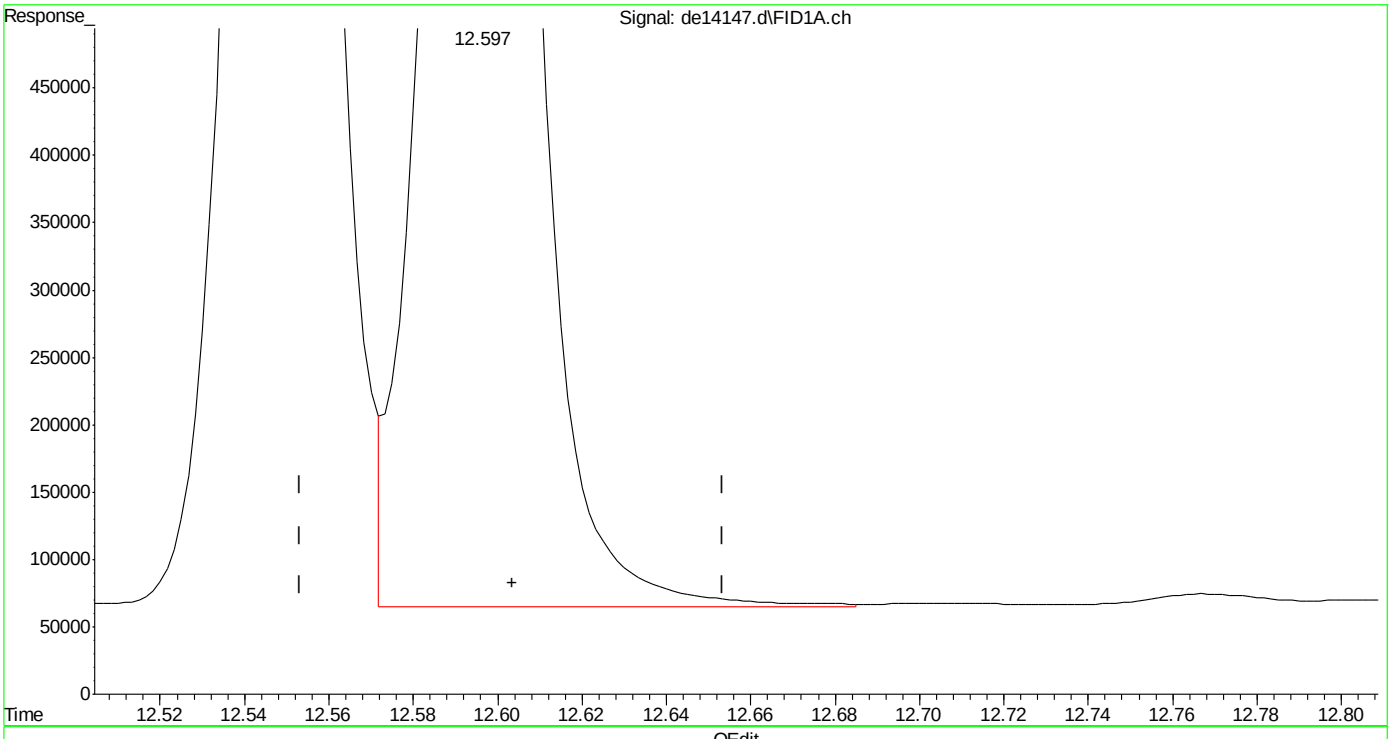
(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:08:30 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.597min 21.774 µg/ml m
response 2119520

(+) = Expected Retention Time

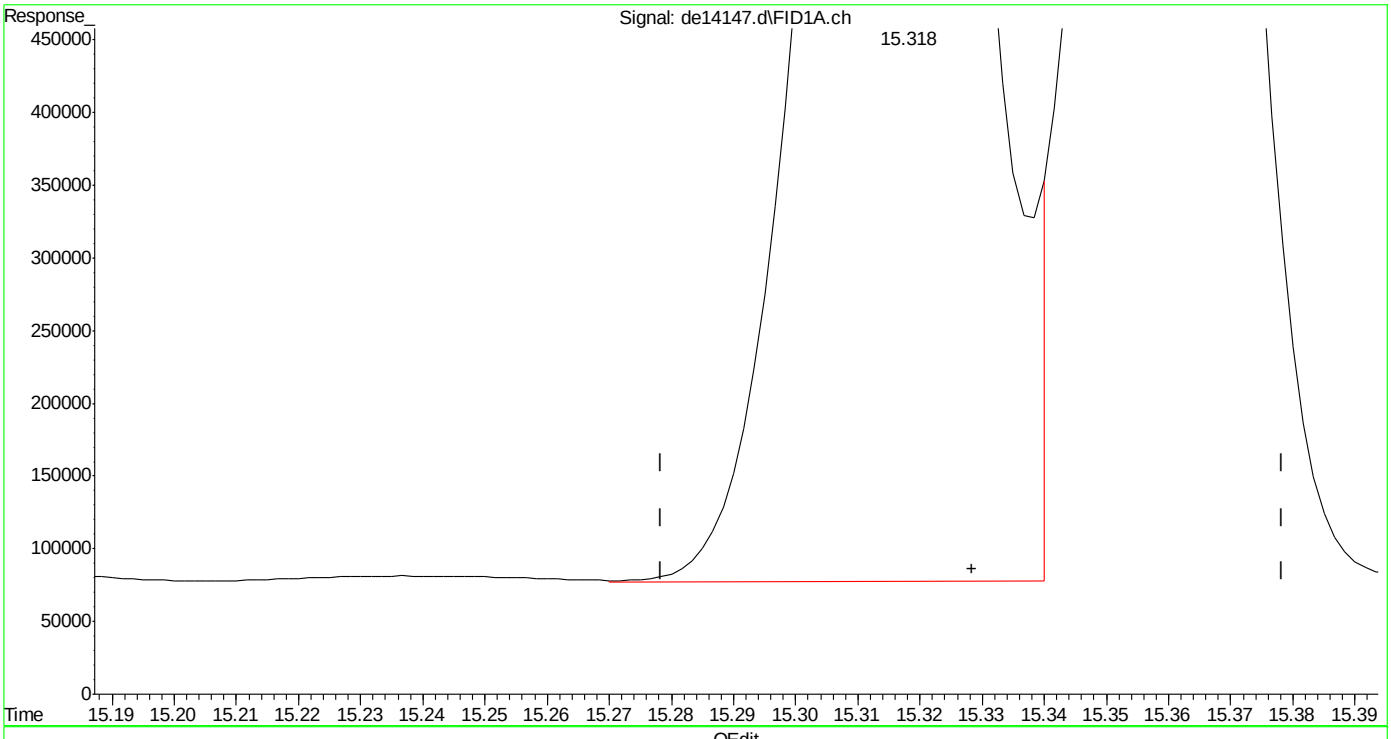
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
15.318min 22.781 µg/ml
response 2156372

(+) = Expected Retention Time

EPH160518W.M Thu May 19 11:08:49 2016

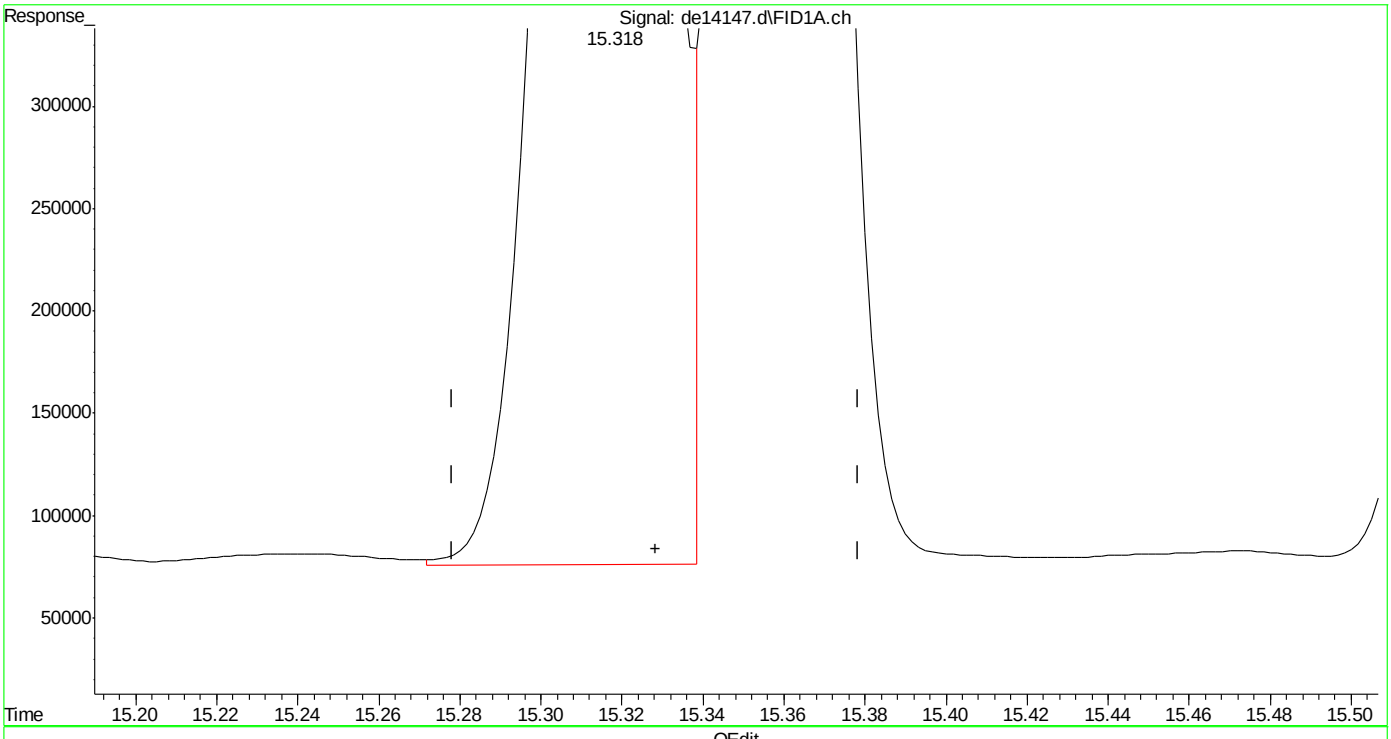
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
15.318min 22.562 µg/ml m
response 2135631

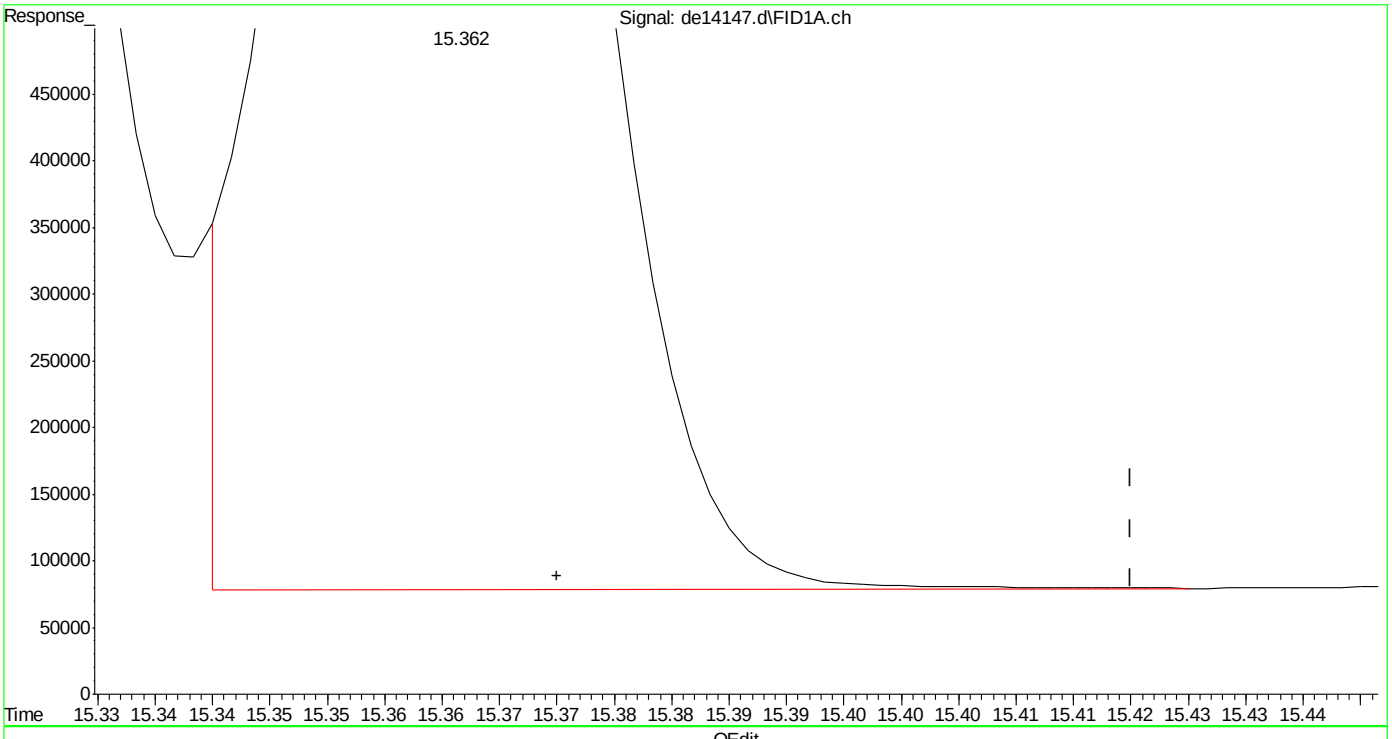
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
15.362min 22.351 µg/ml
response 2042871

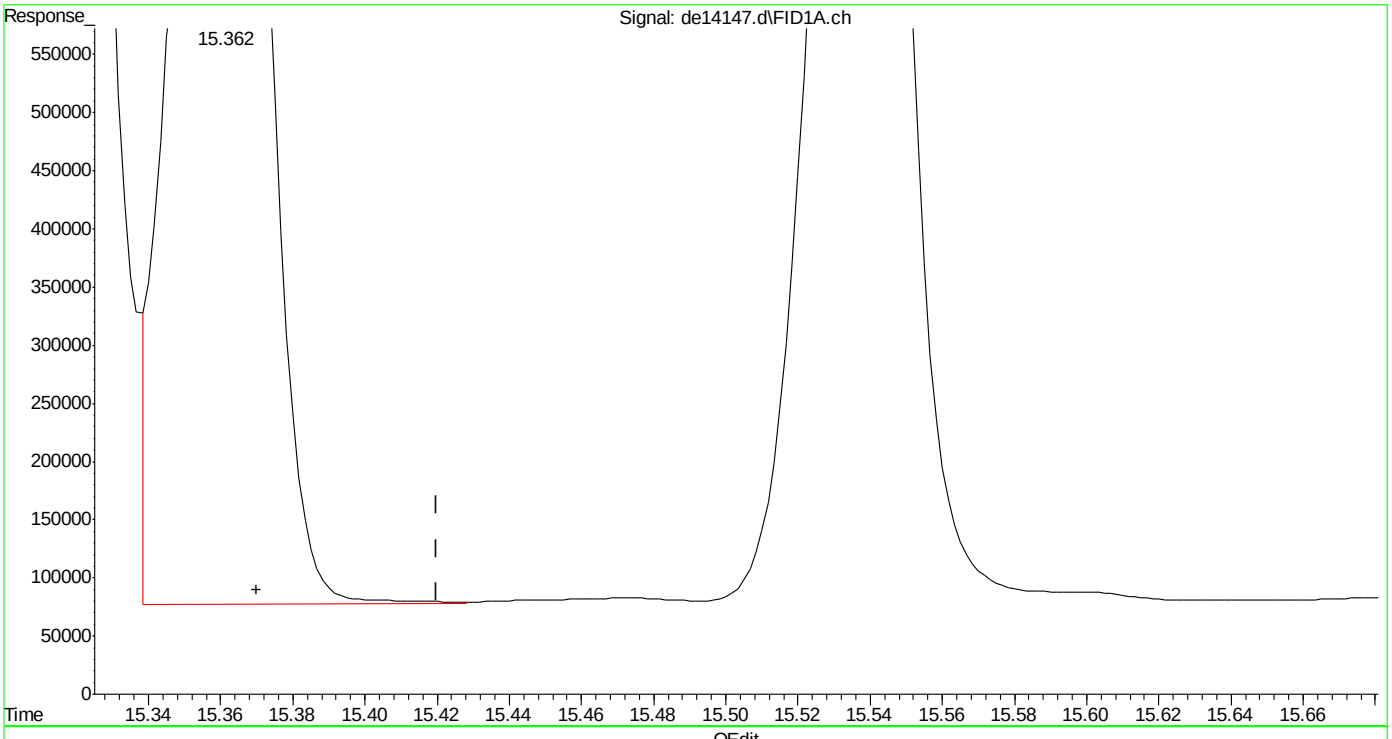
(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:09:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14147.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:16 am
Operator : thomasa
Sample : op47484-msd
Misc : op47484,gde792,11.15,,,2,,s
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
15.362min 22.733 µg/ml m
response 2077747

(+) = Expected Retention Time
EPH160518W.M Thu May 19 11:09:15 2016

SGS ACCUTEST MC45678

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

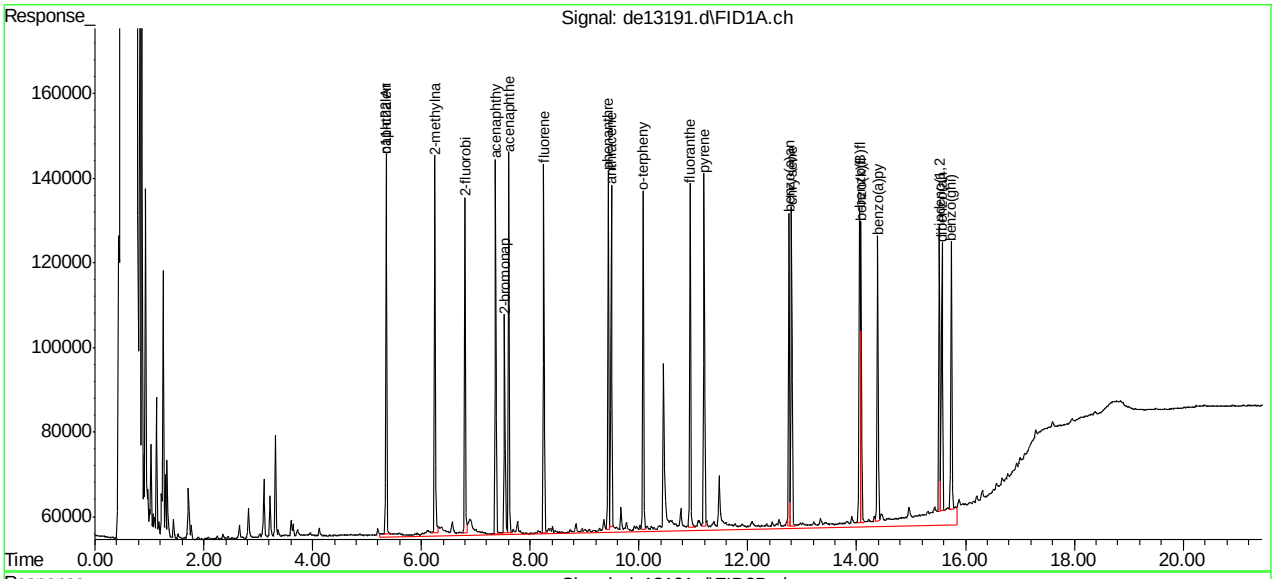
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

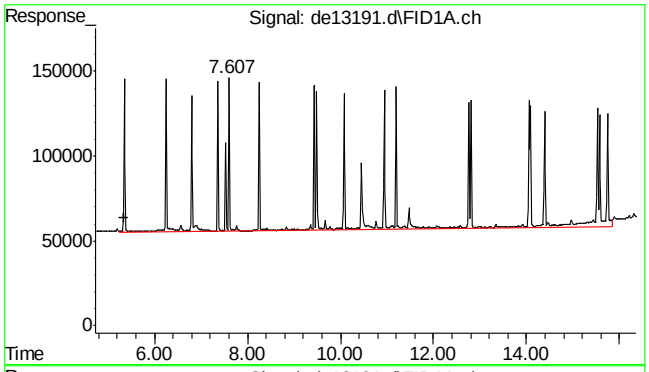
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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

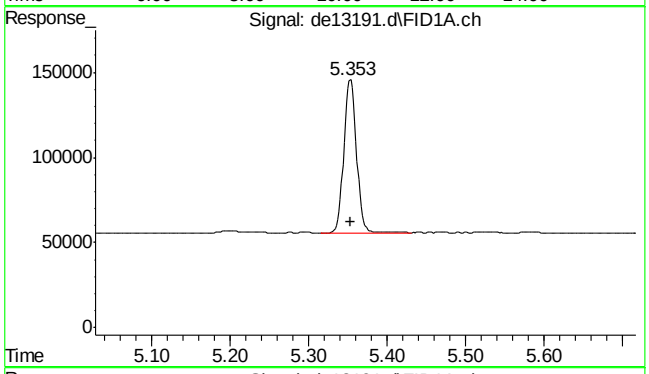


SGS ACCUTEST MC45678



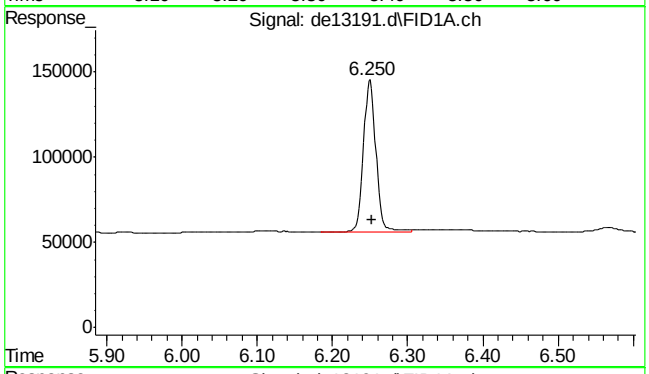
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



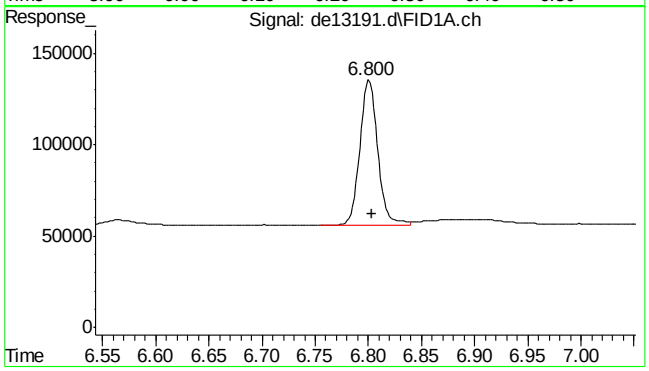
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



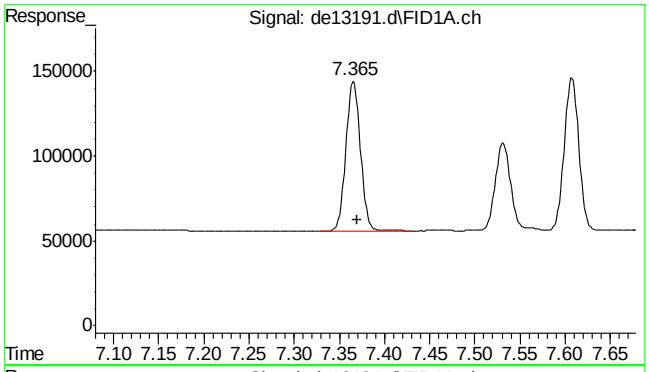
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



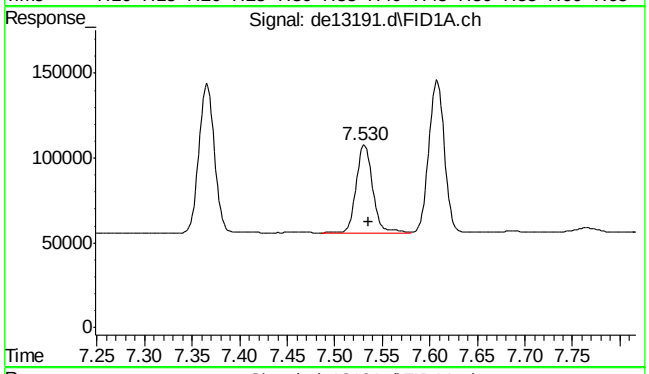
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml



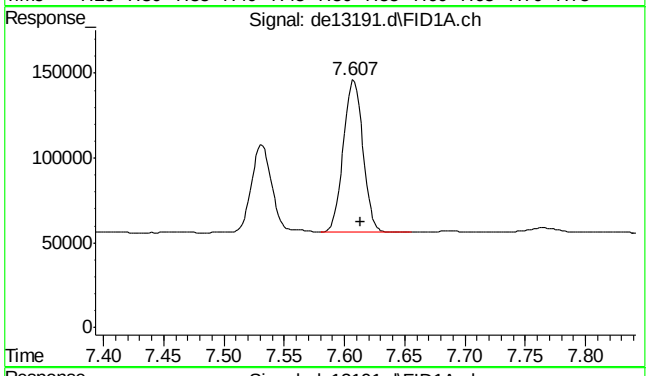
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



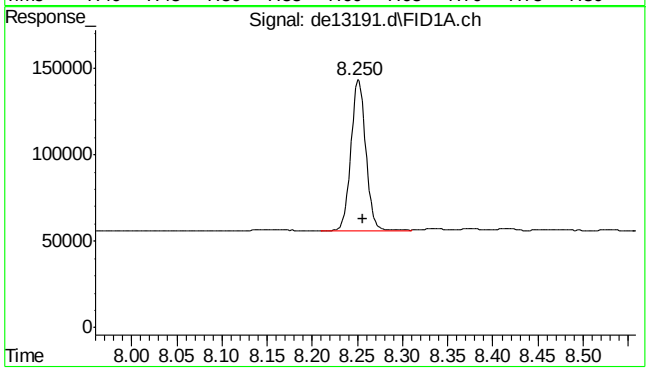
#6 2-bromonaphthalene

R.T.: 7.530 min
Delta R.T.: -0.005 min
Response: 61936
Conc: 0.91 µg/ml



#7 acenaphthene

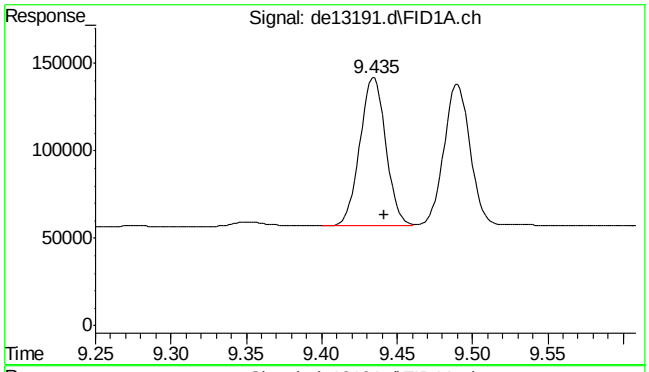
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 101818
Conc: 0.92 µg/ml



#8 fluorene

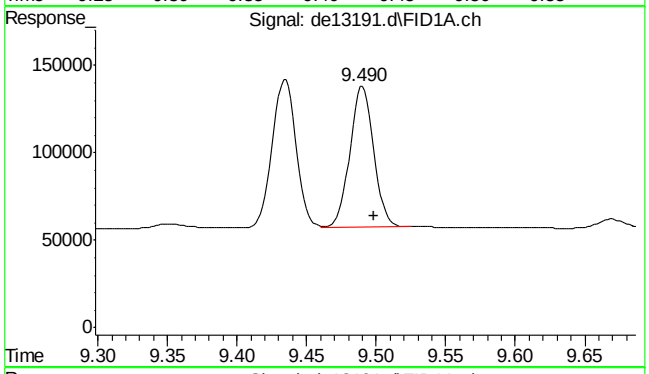
R.T.: 8.250 min
Delta R.T.: -0.007 min
Response: 100695
Conc: 0.92 µg/ml

SGS ACCUTEST MC45678



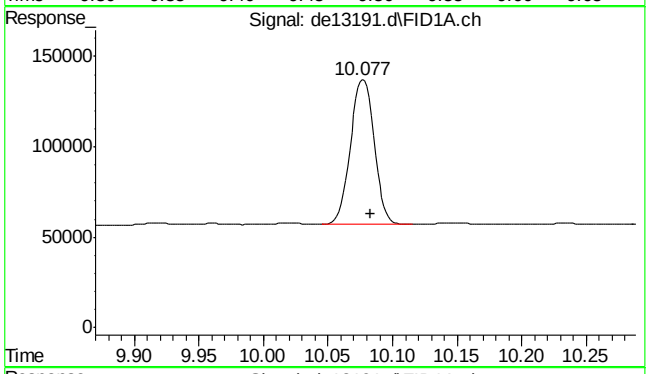
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



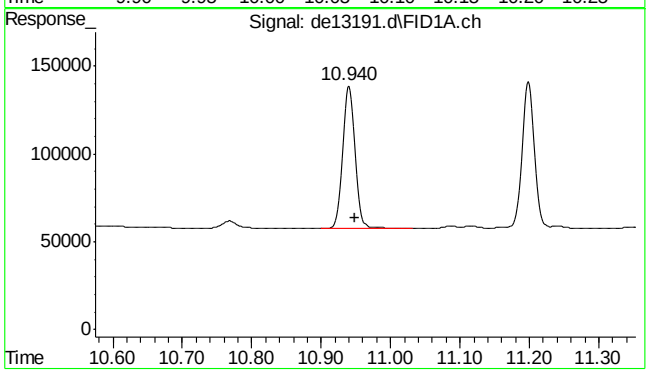
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

9.5.1

9

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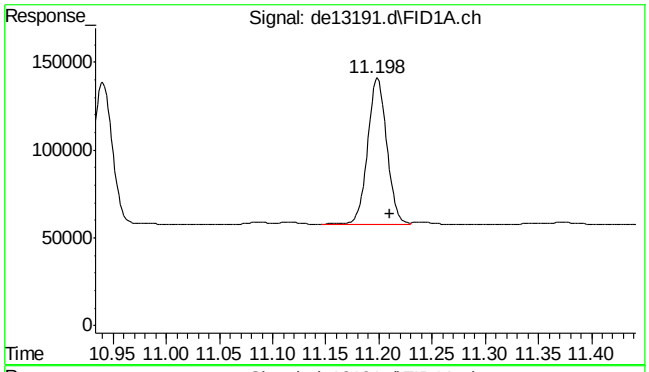
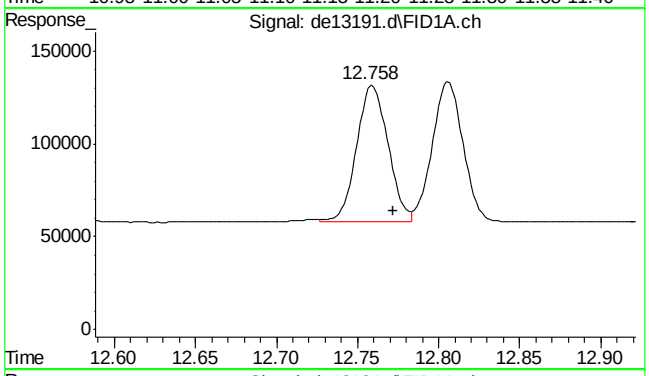


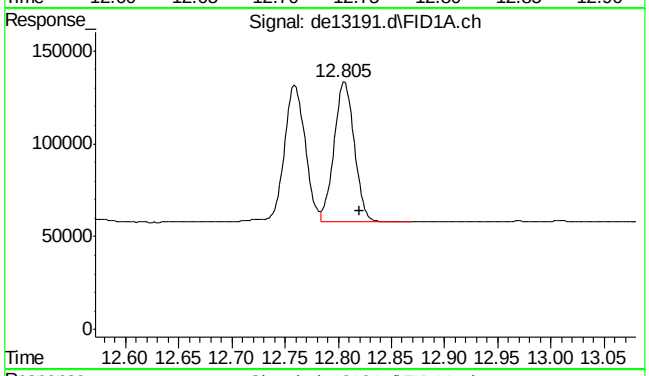
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



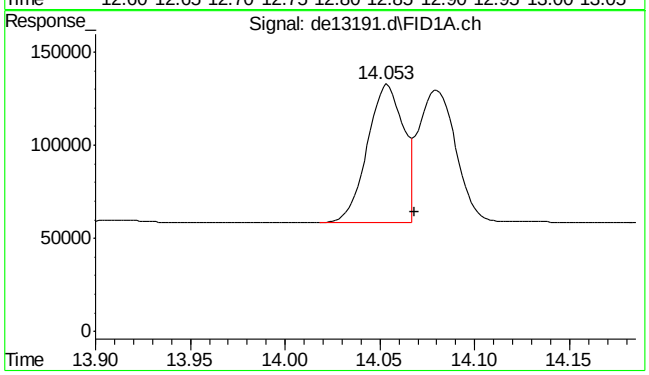
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



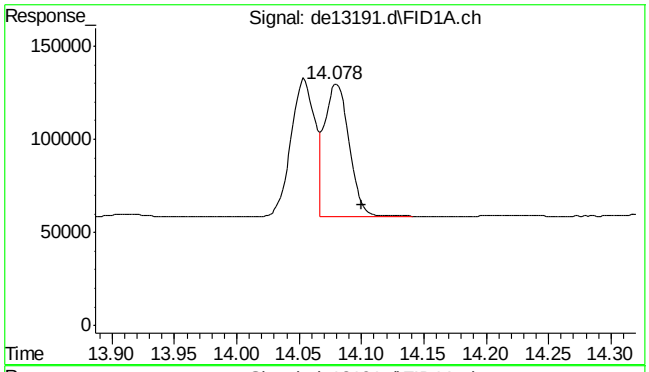
#15 chrysene

R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



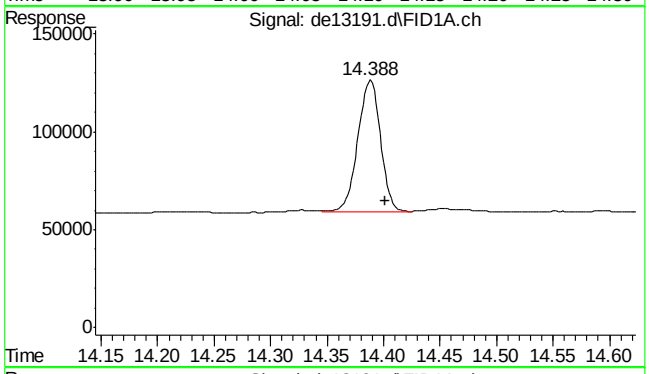
#16 benzo(B)fluoranthene

R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m



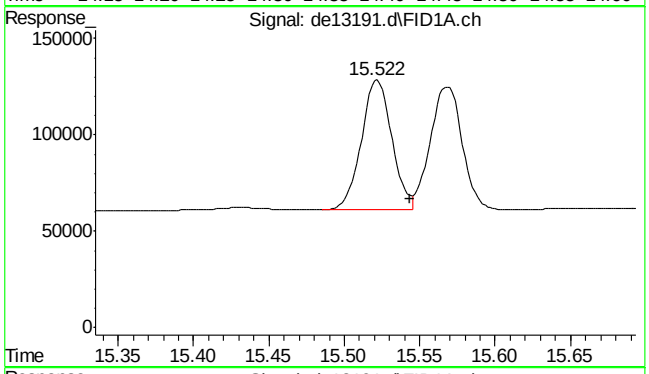
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



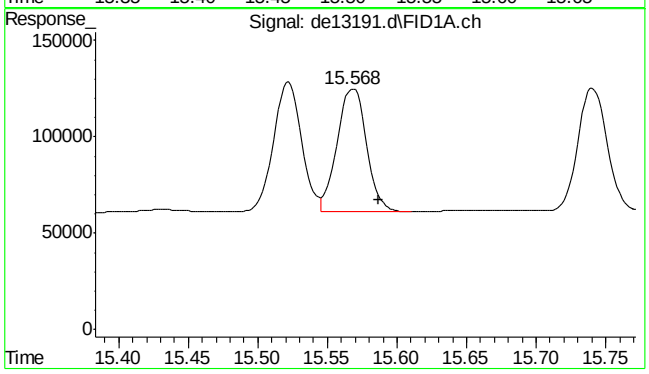
#18 benzo(a)pyrene

R.T.: 14.388 min
Delta R.T.: -0.013 min
Response: 94743
Conc: 0.97 µg/ml



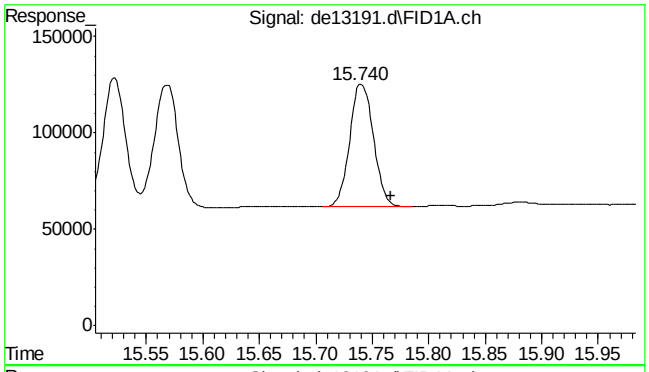
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



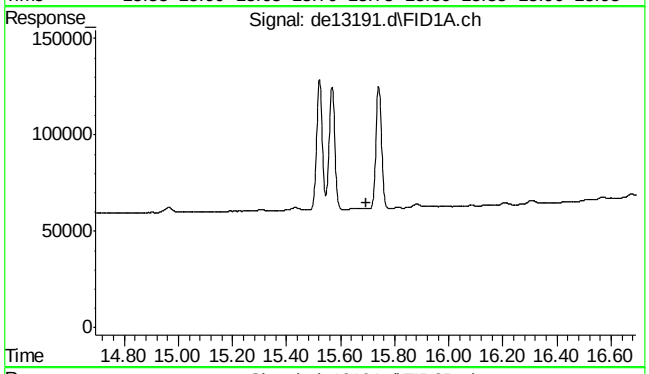
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml



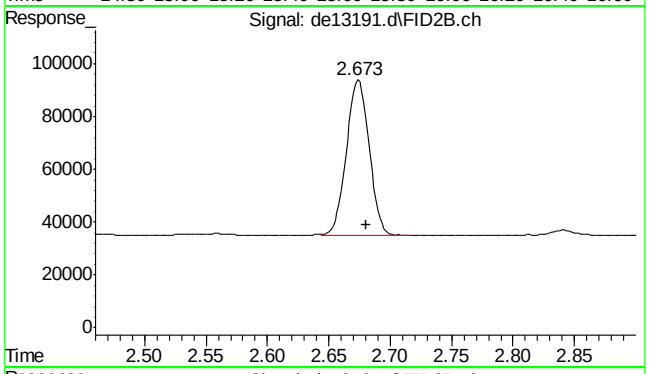
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



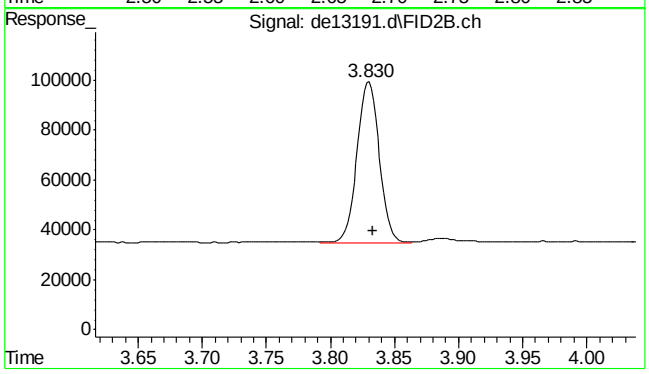
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



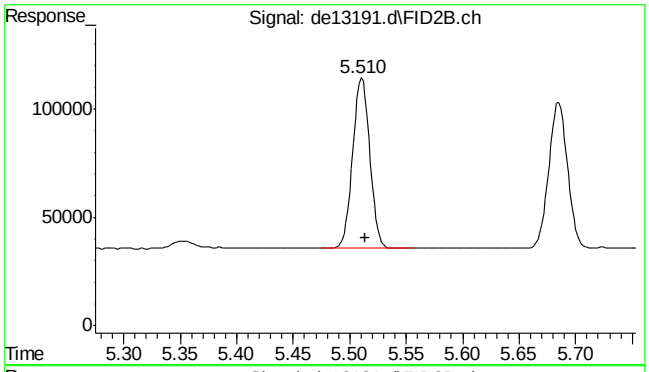
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



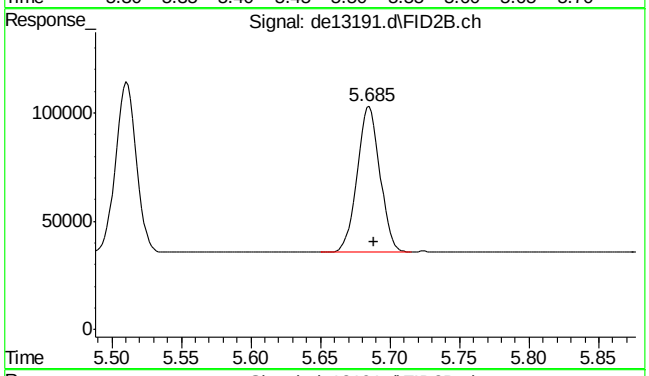
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m



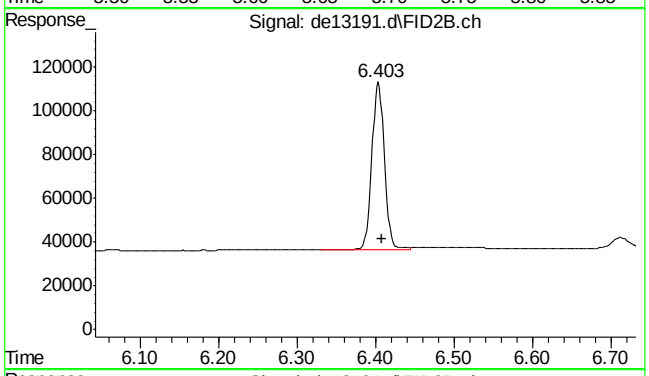
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



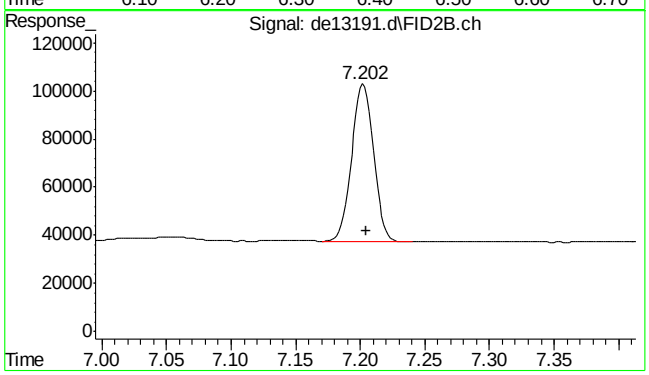
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 76748
Conc: 1.06 µg/ml



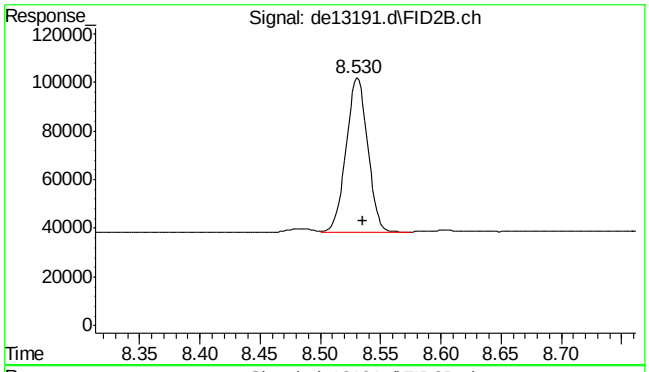
#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 85696
Conc: 1.08 µg/ml



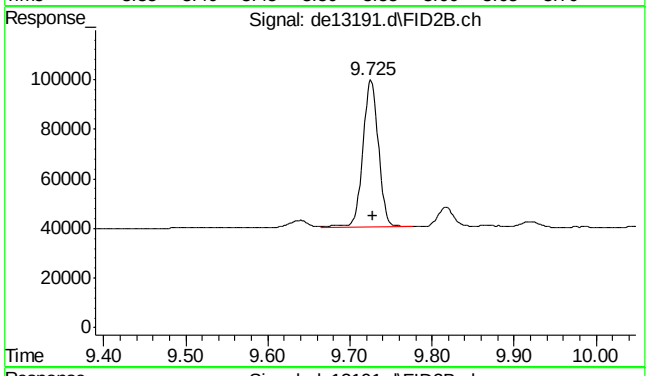
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml



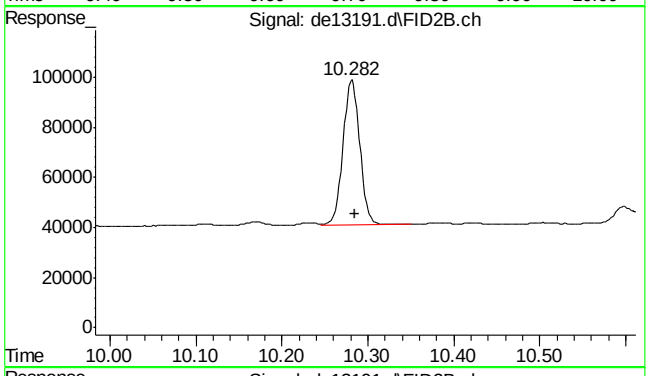
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



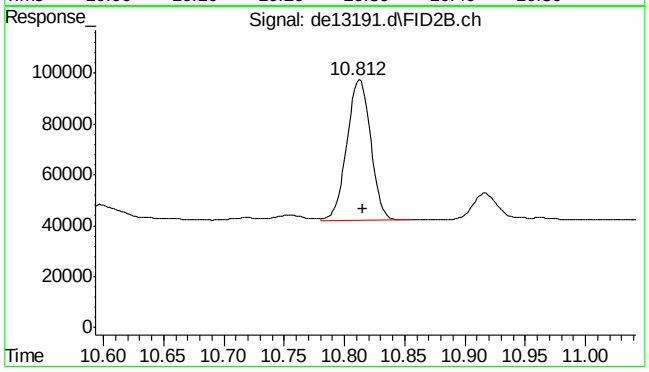
#32 c-18

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

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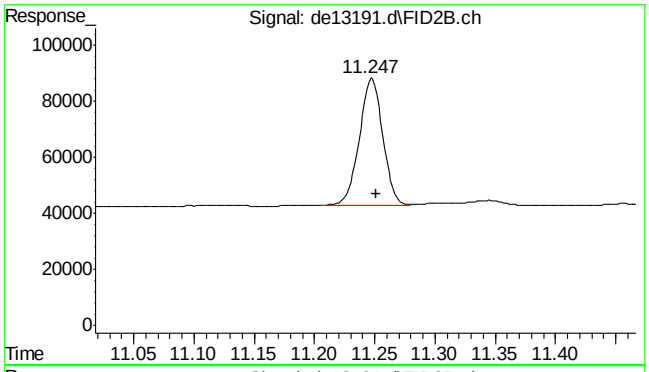
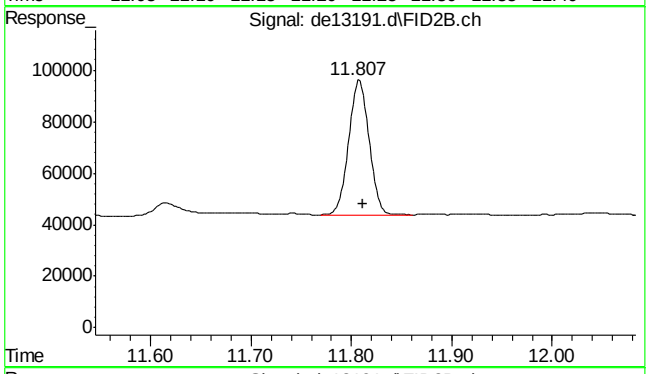


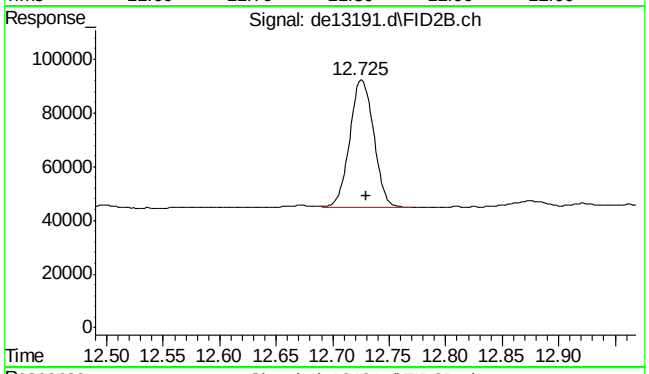
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



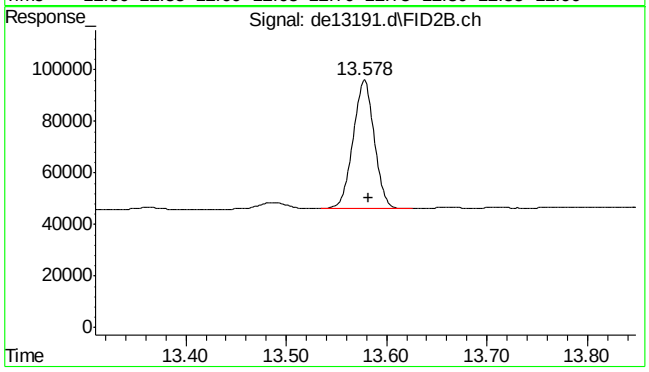
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

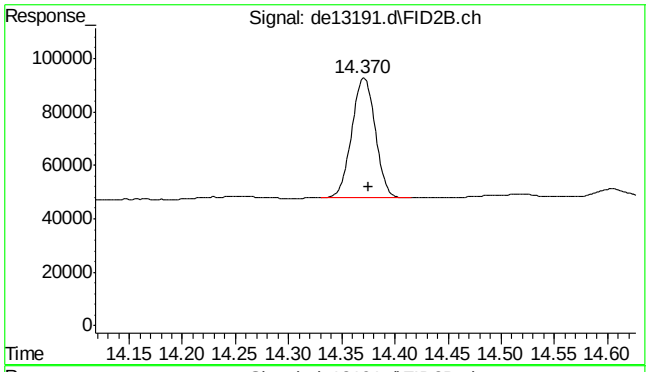
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



#38 c-26

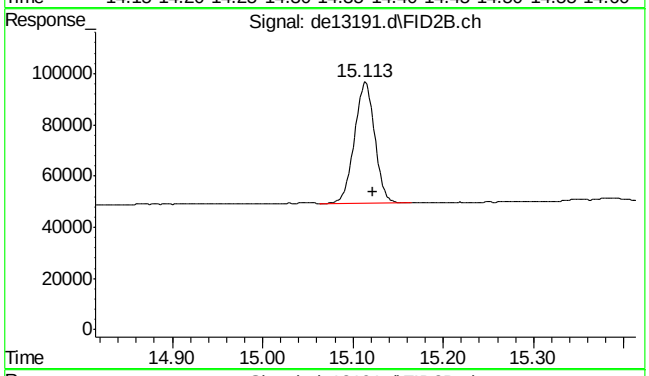
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

SGS ACCUTEST MC45678



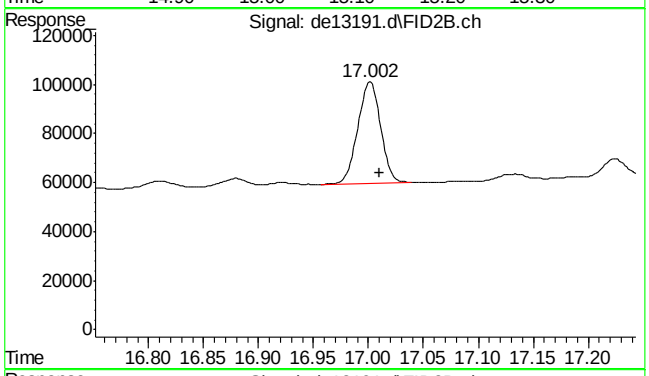
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



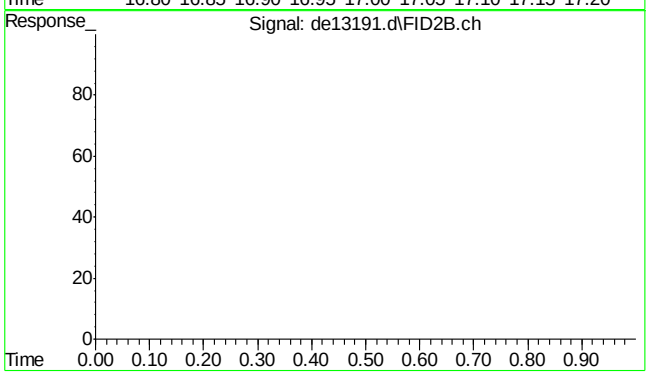
#40 c-30

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



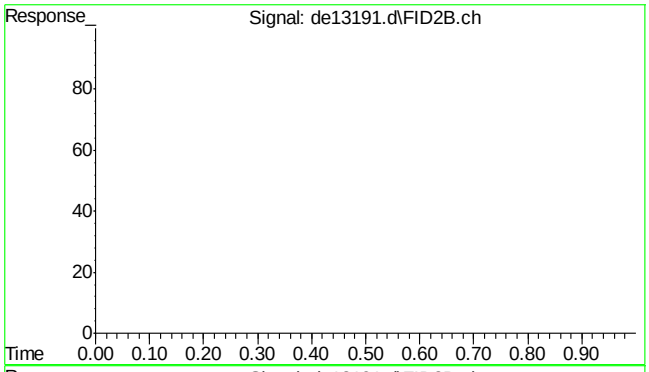
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.1

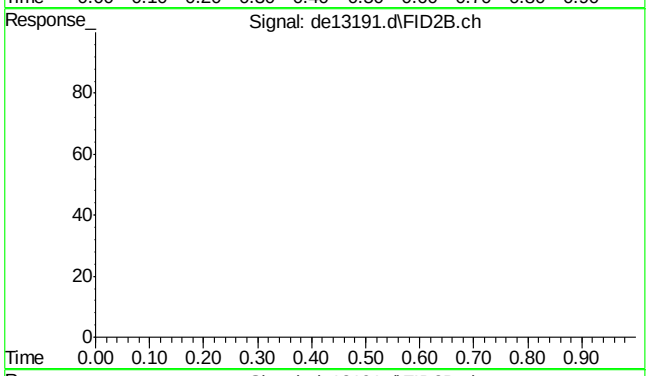
9

SGS ACCUTEST MC45678



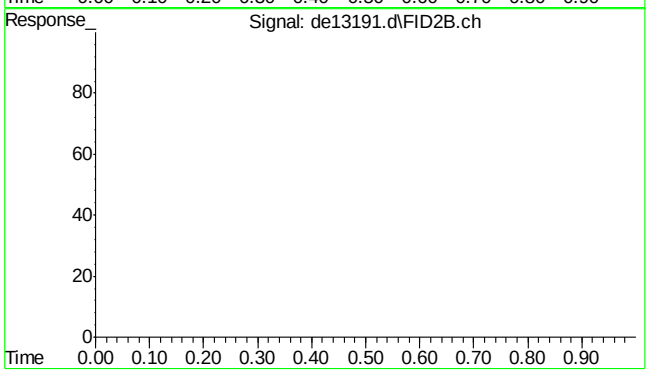
#43 bht

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

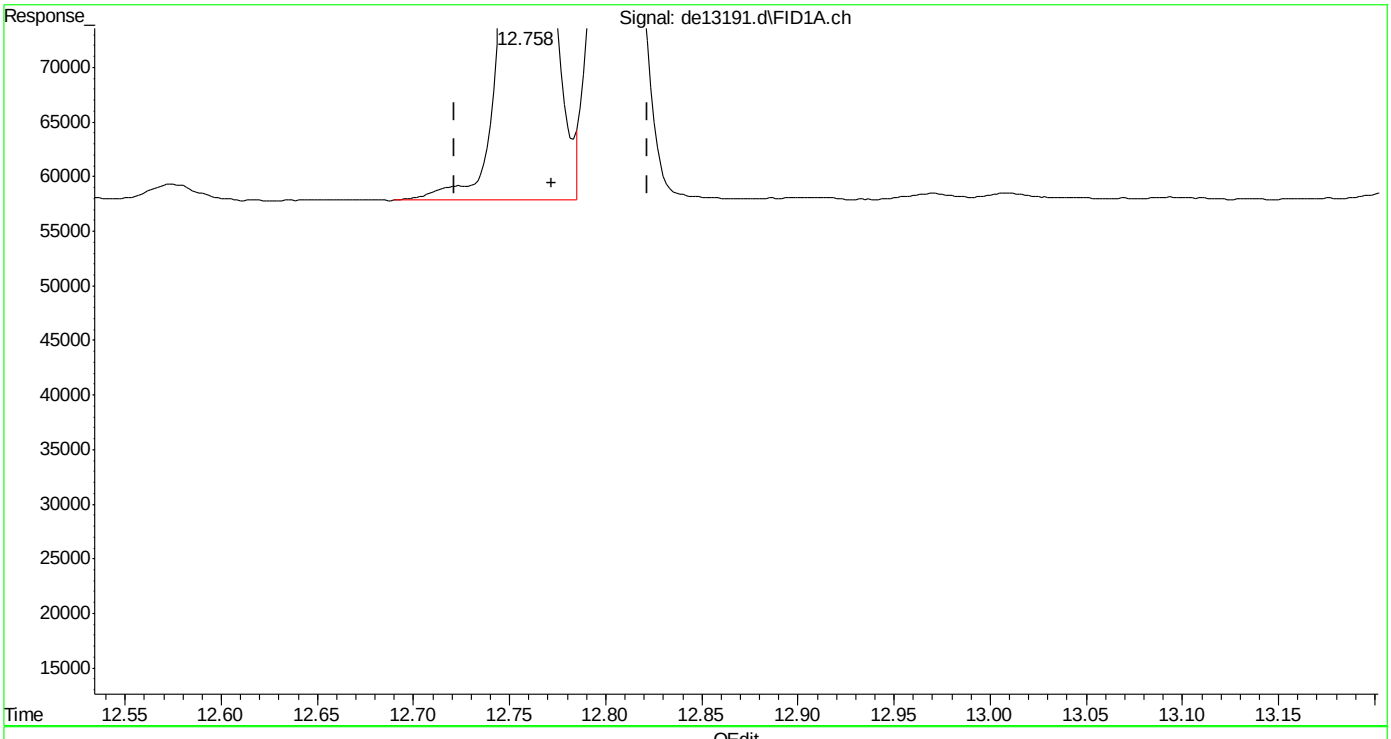
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

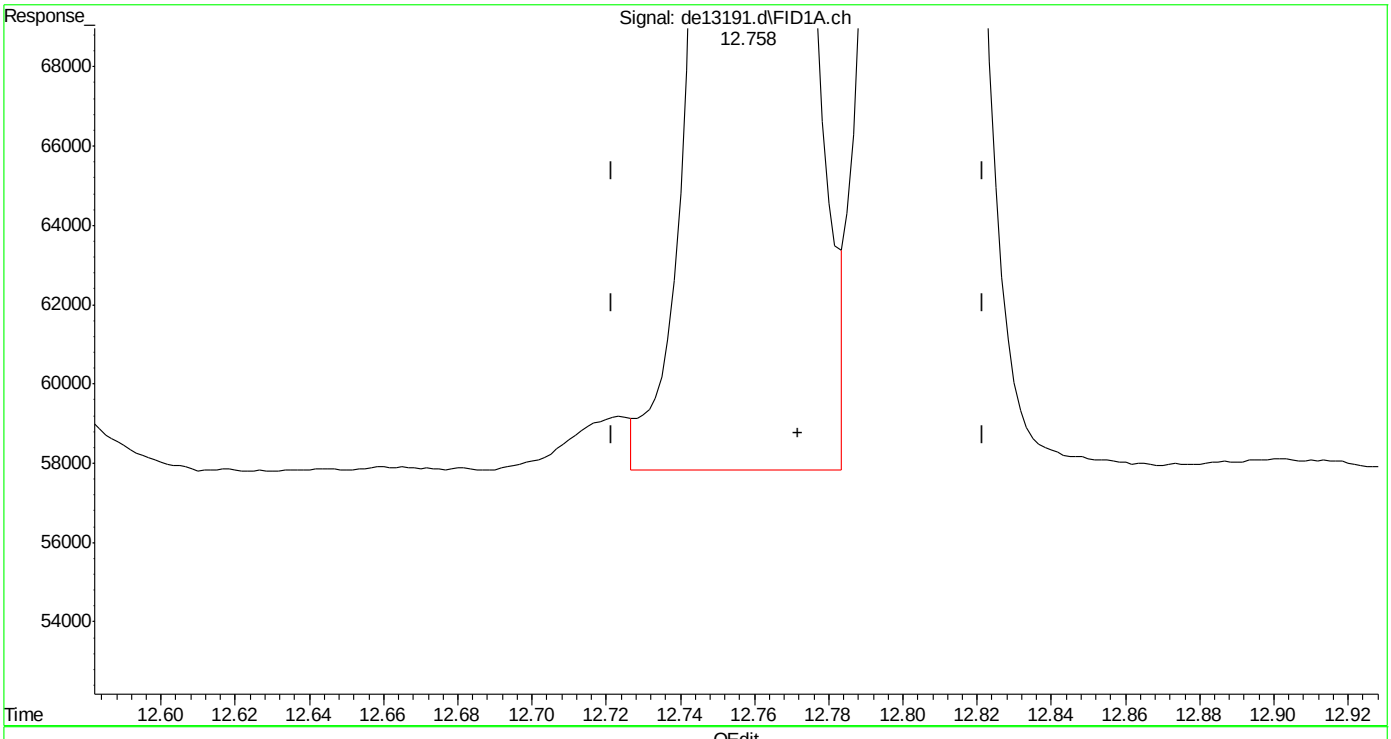
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.758min 1.022 µg/ml m
response 100487

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:36:33 2016

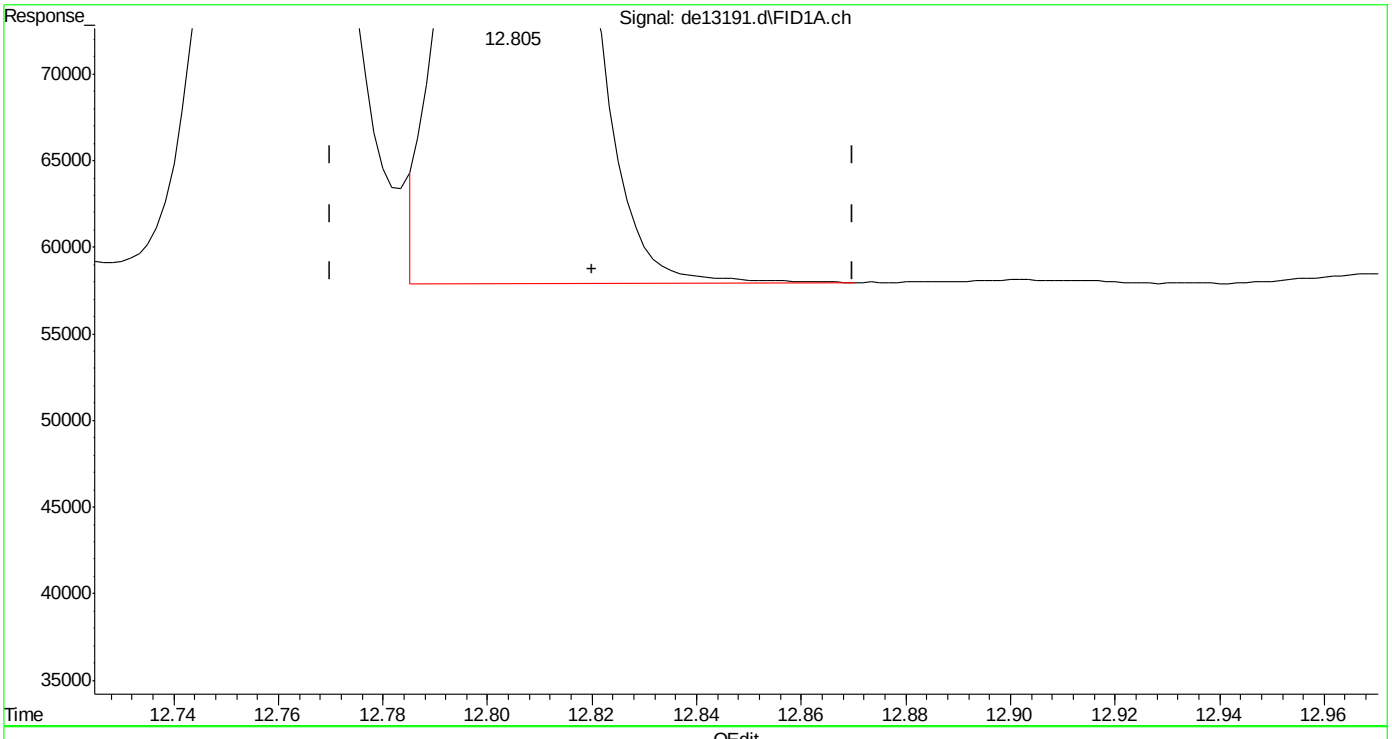
SGS ACCUTEST MC45678

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

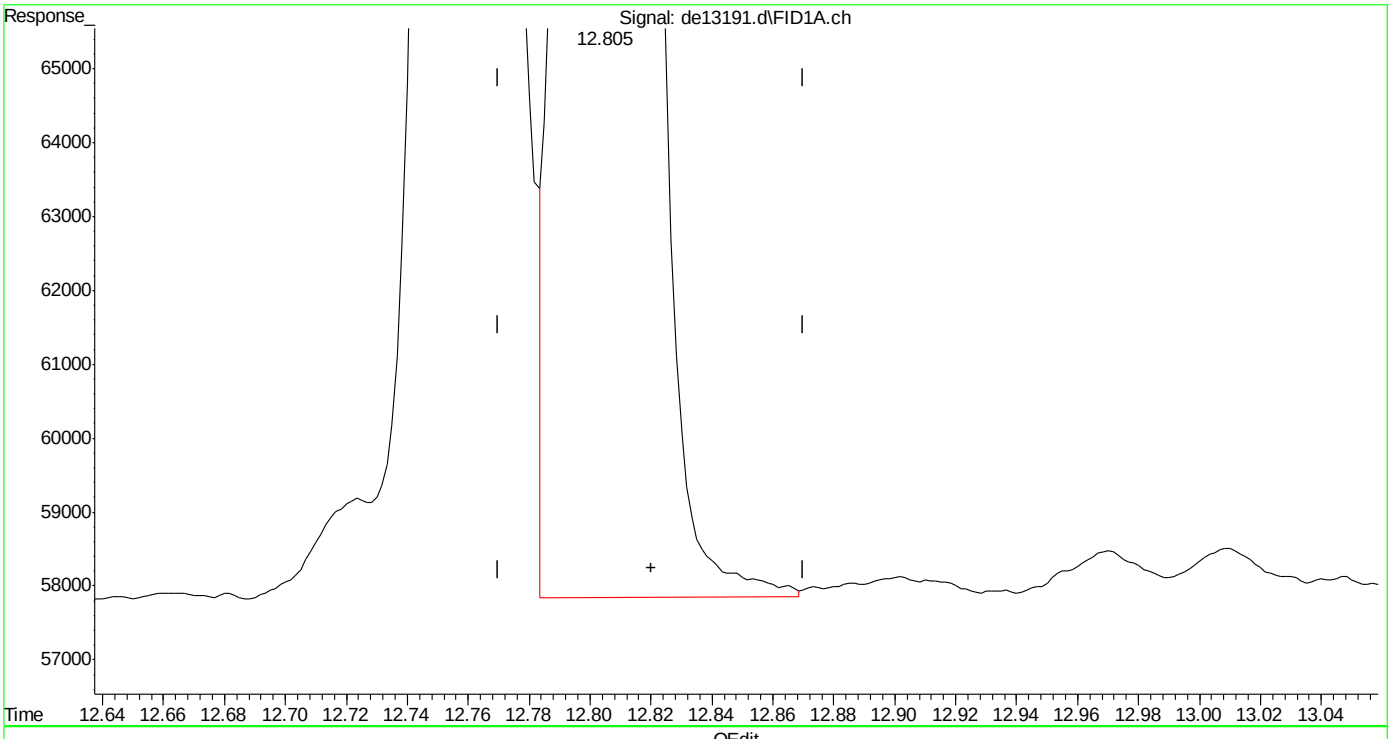
EPH160204M.M Fri Feb 05 10:36:37 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.805min 1.010 µg/ml m
response 100279

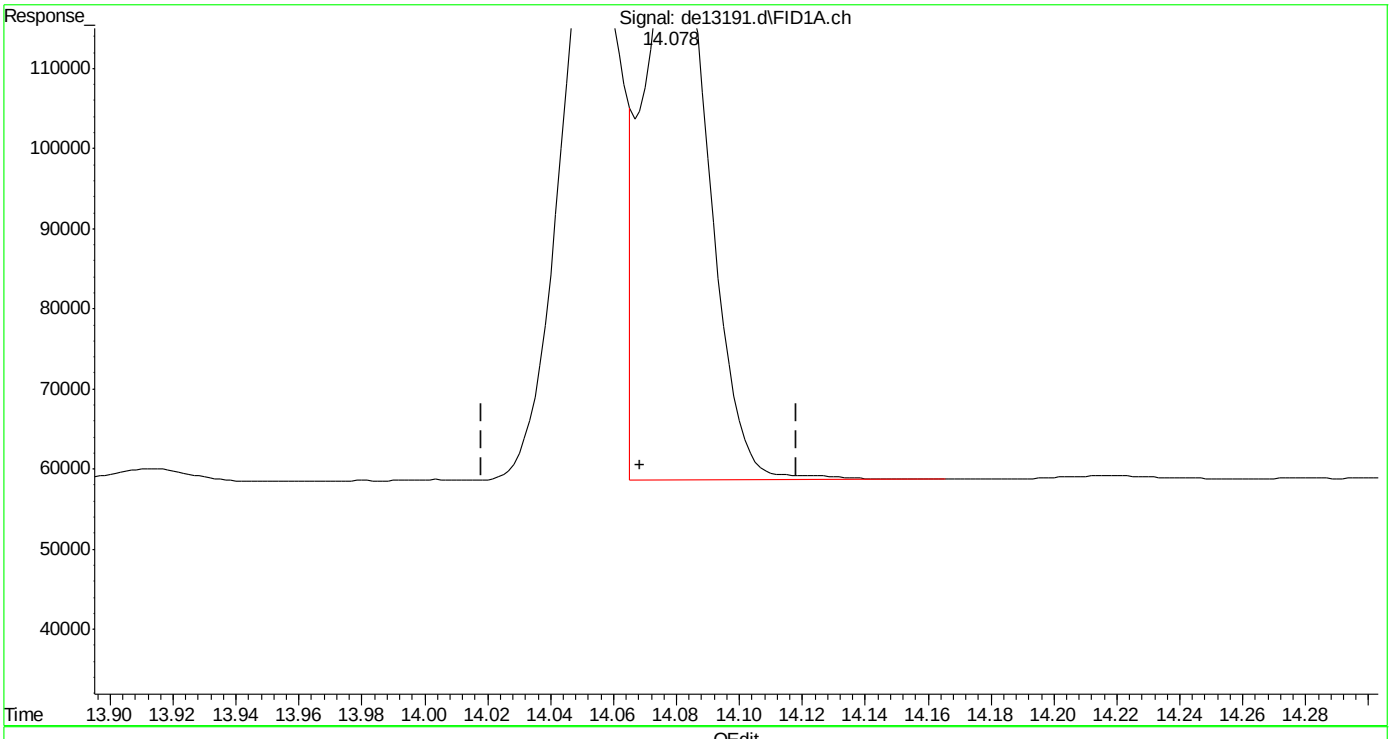
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.078min 0.983 µg/ml
response 100280

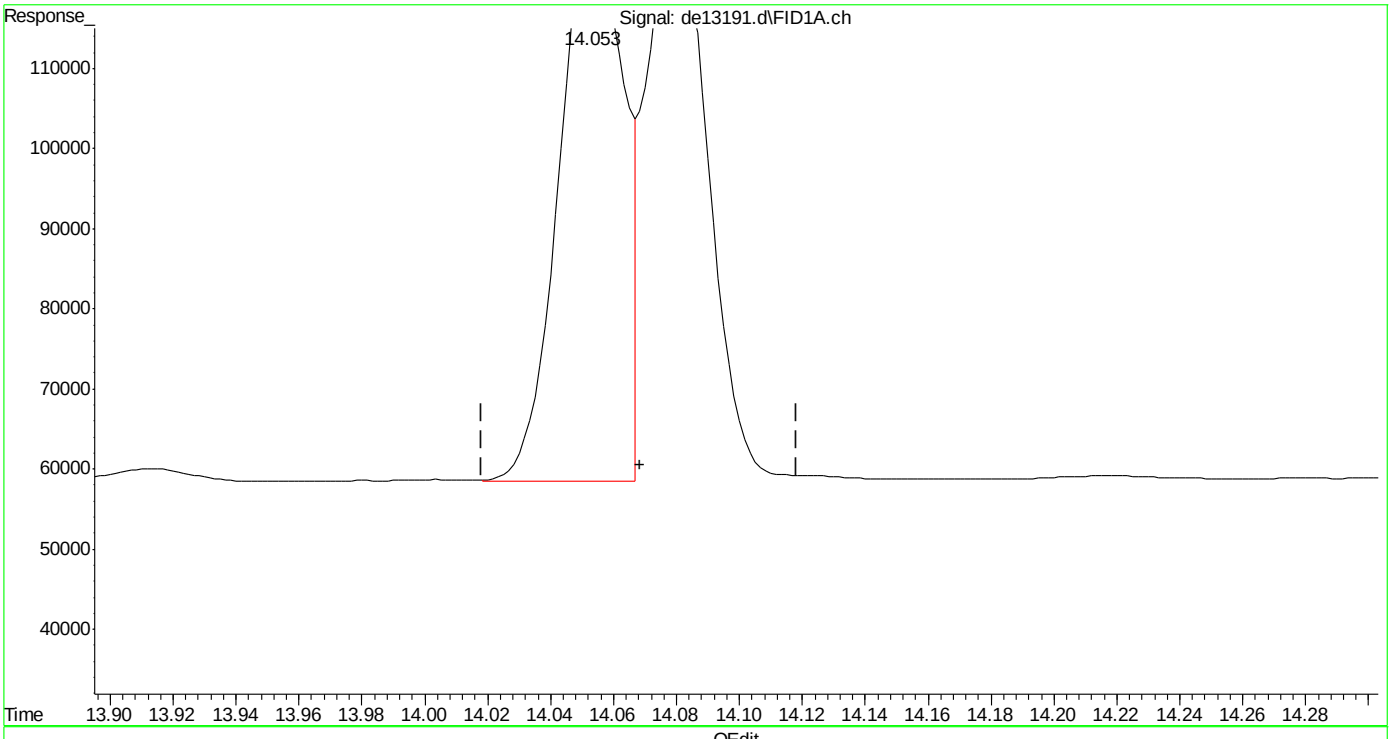
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.053min 0.988 µg/ml m
response 100827

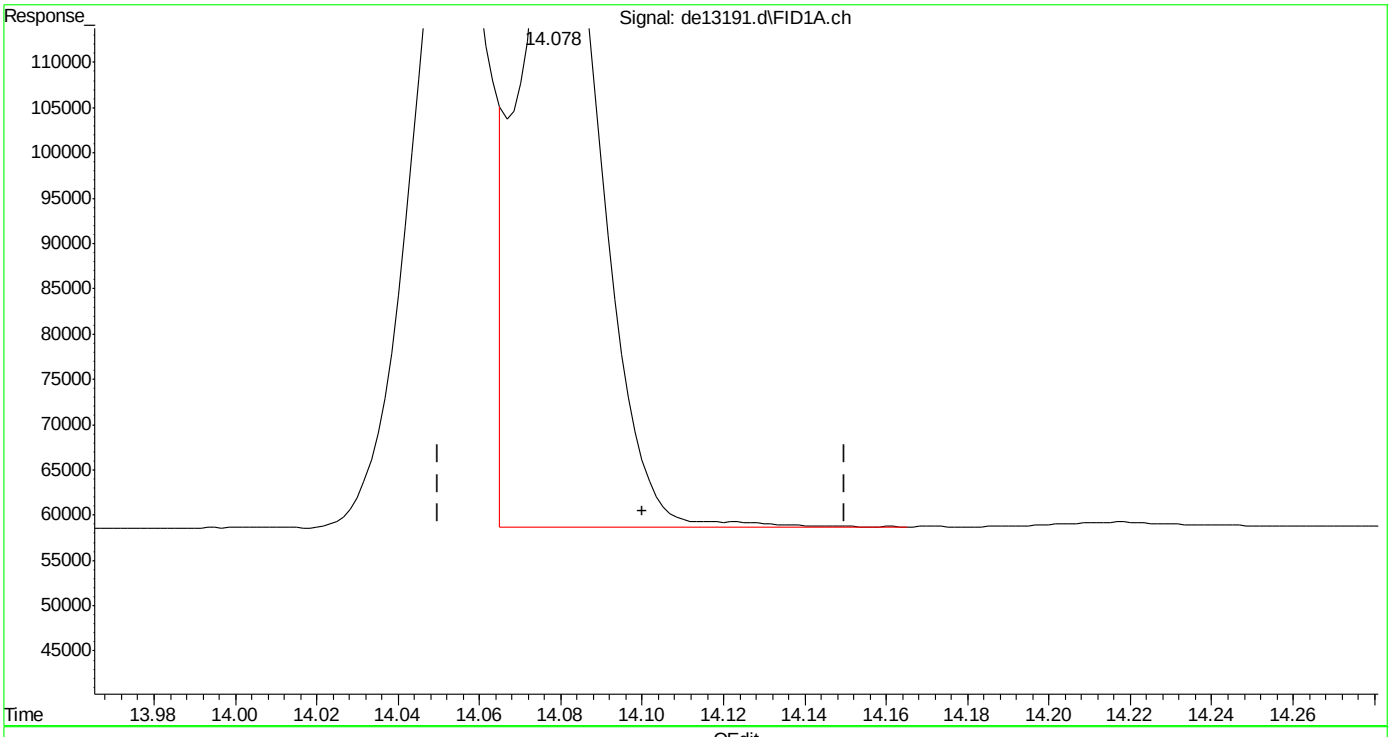
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.078min 1.024 µg/ml
response 100280

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:37:26 2016

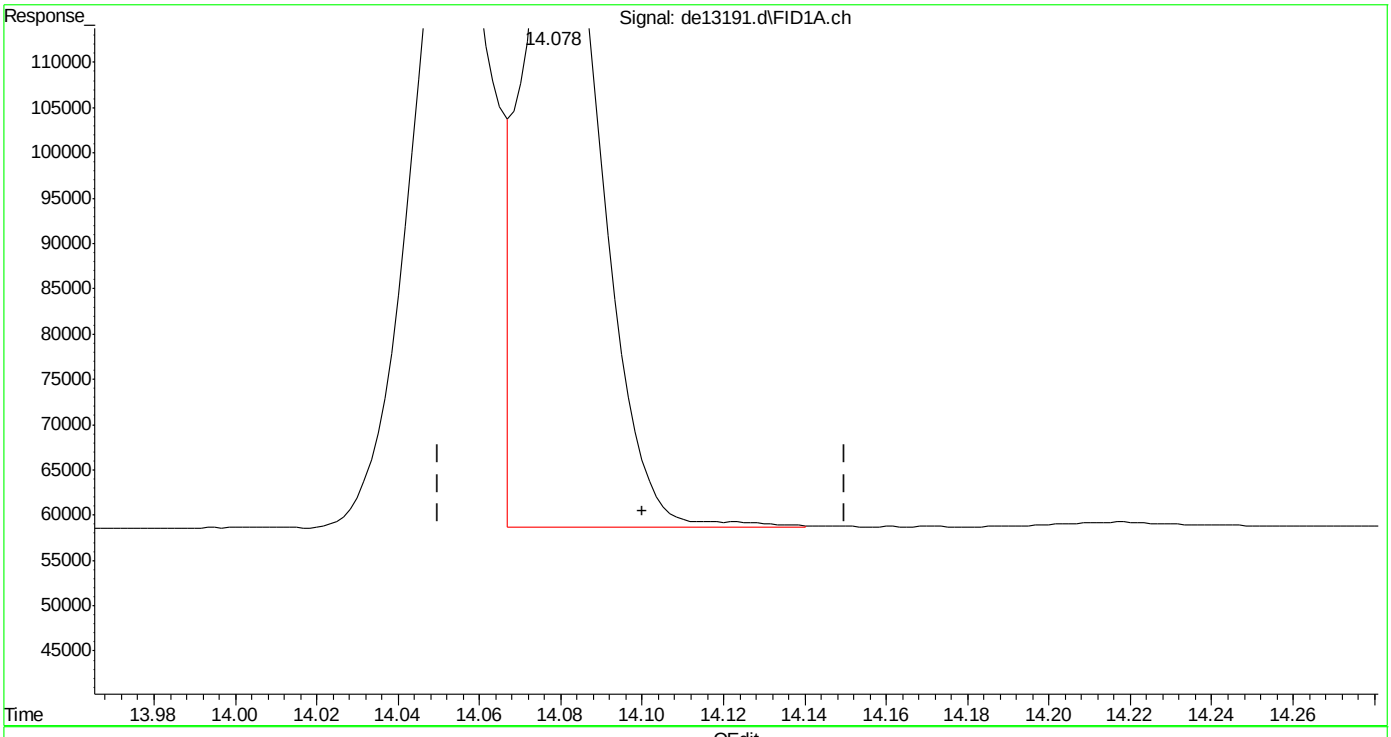
SGS ACCUTEST MC45678

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

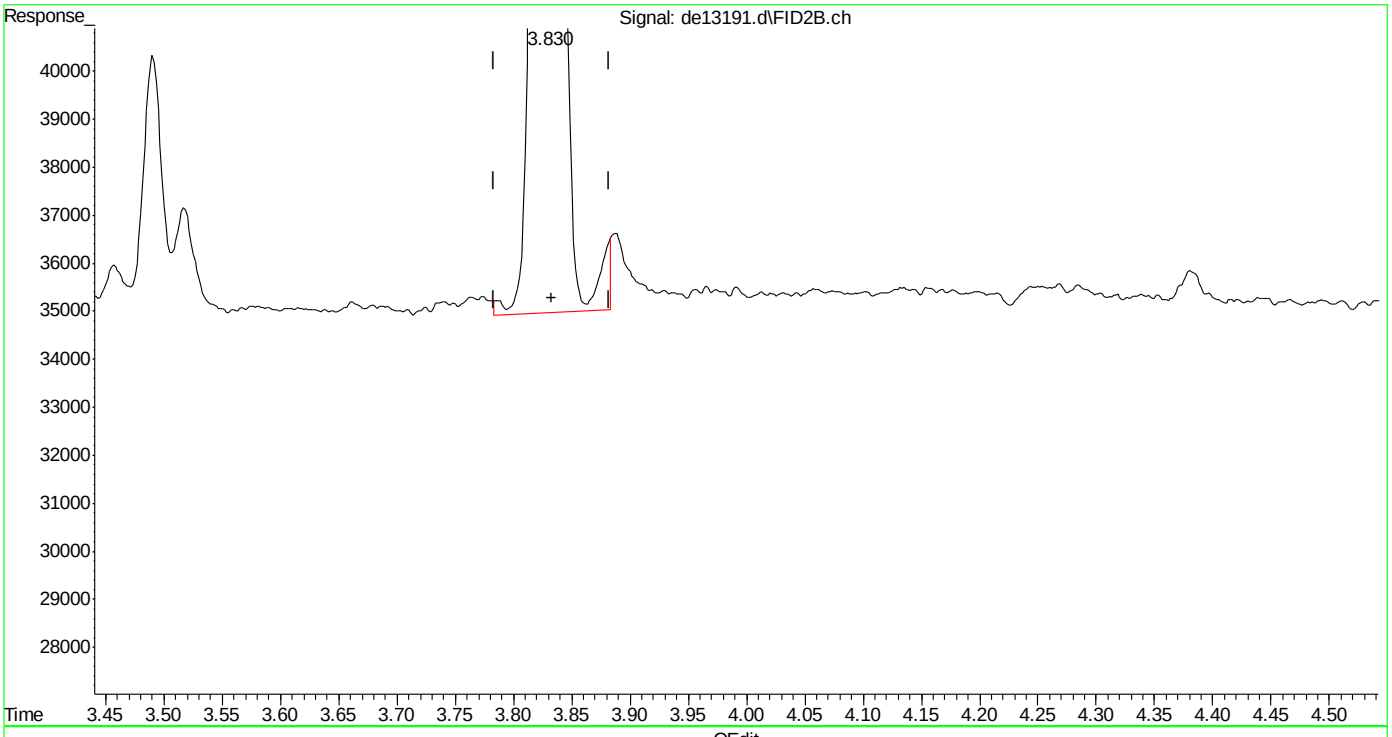
SGS ACCUTEST MC45678

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

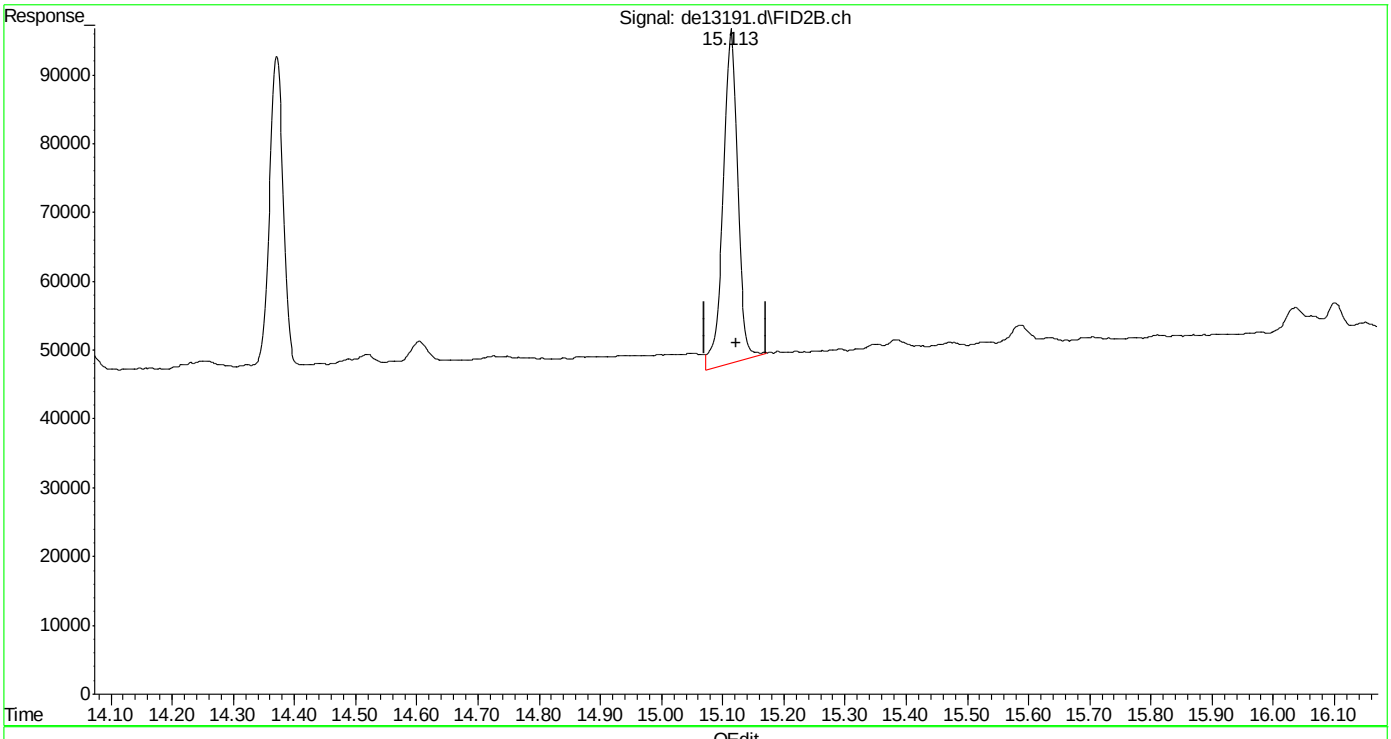
(+) = Expected Retention Time

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

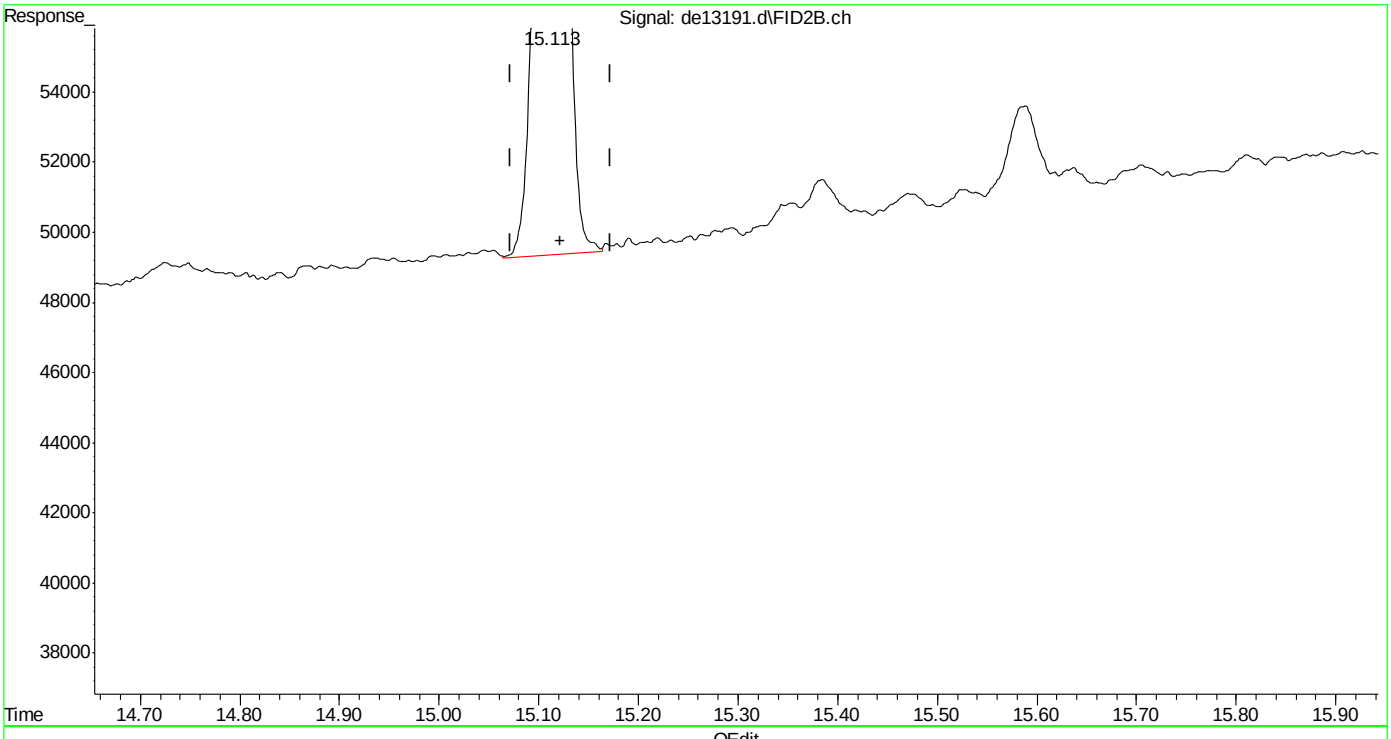
(+) = Expected Retention Time

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 MC45678

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

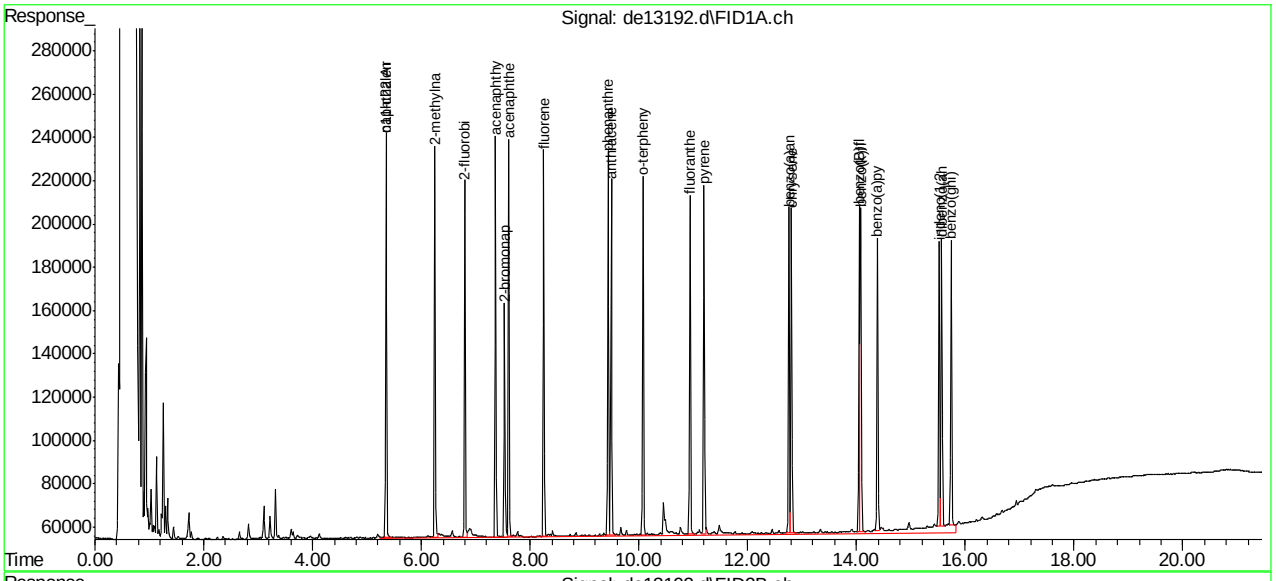
9

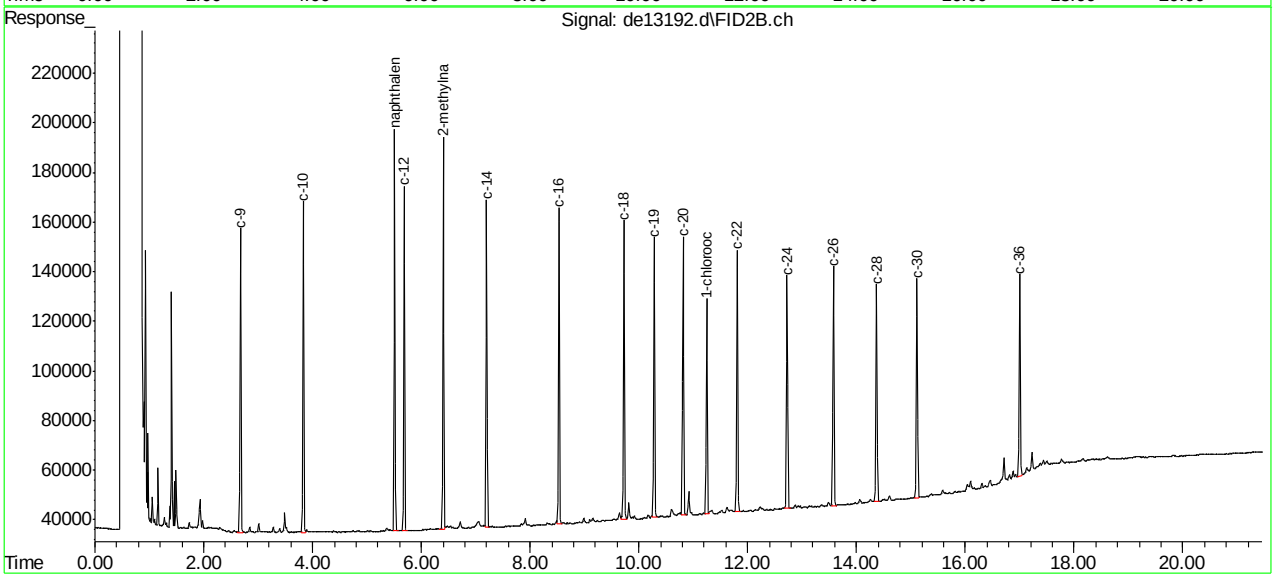
Quantitation Report (QT Reviewed)

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

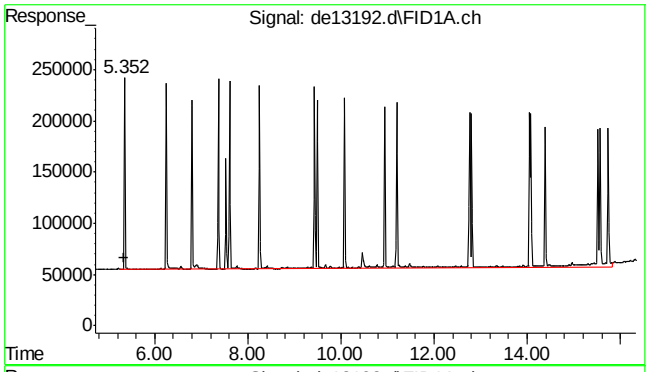
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



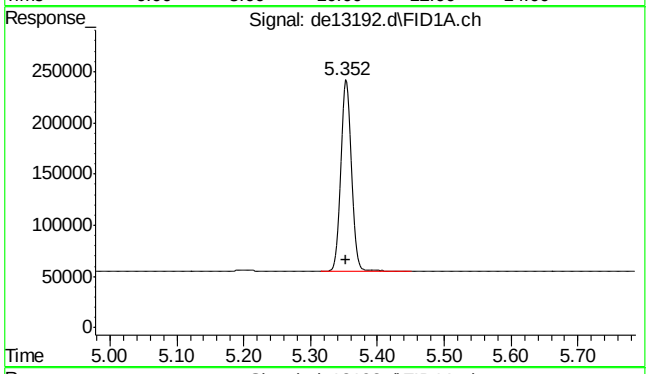


SGS ACCUTEST MC45678



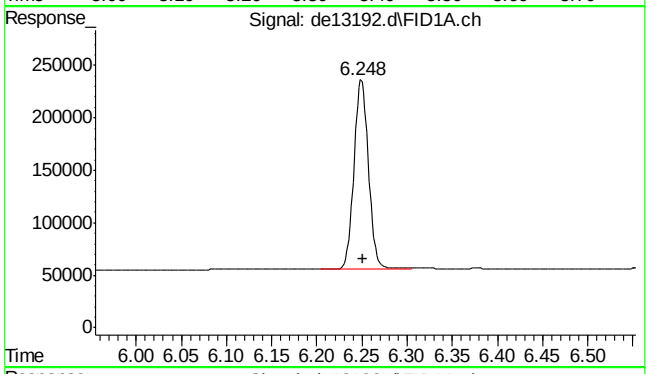
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



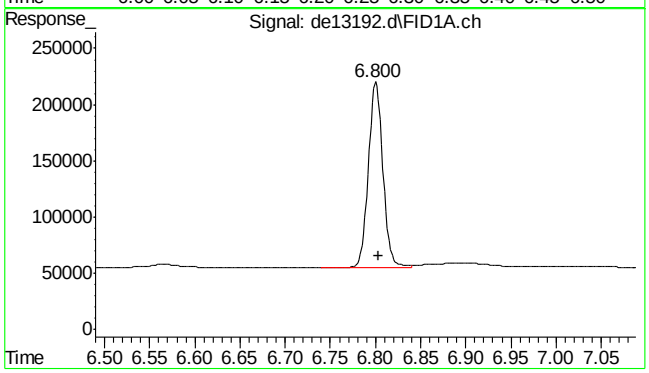
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



#3 2-methylnaphthalene

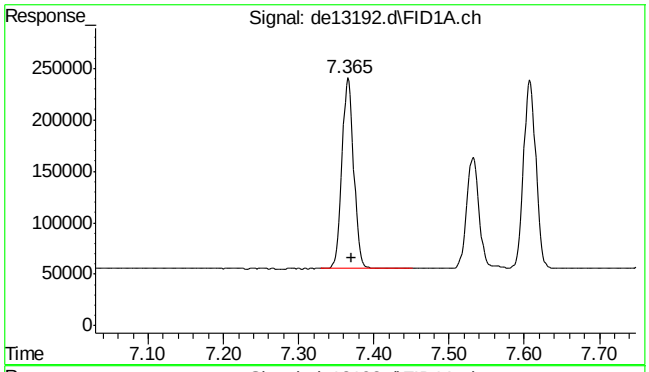
R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



#4 2-fluorobiphenyl

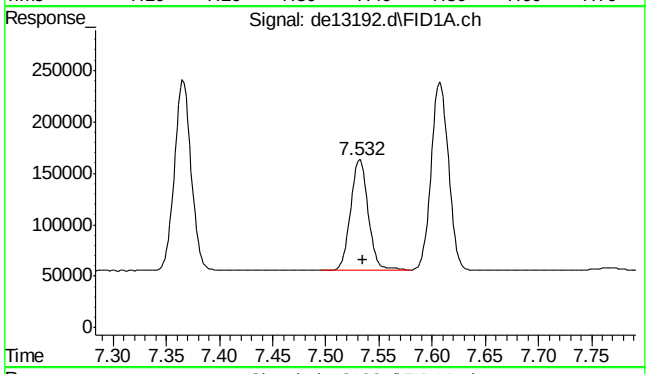
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml

SGS ACCUTEST MC45678



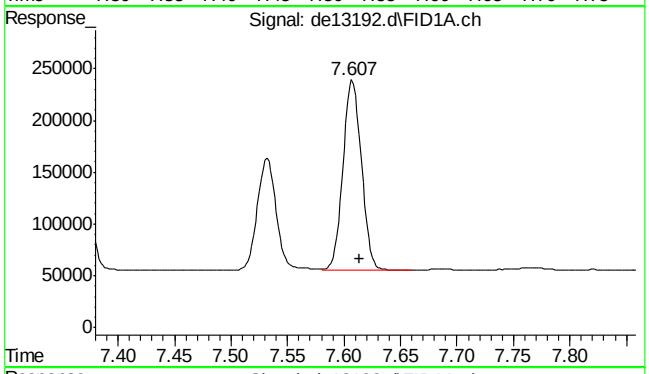
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



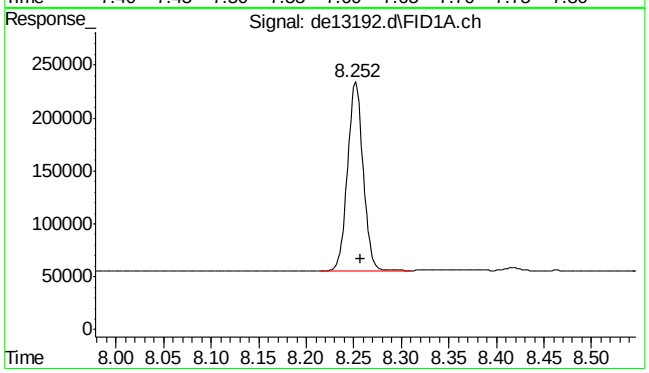
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



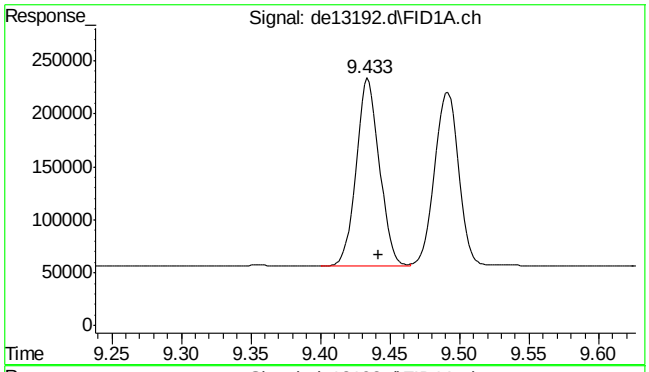
#7 acenaphthene

R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



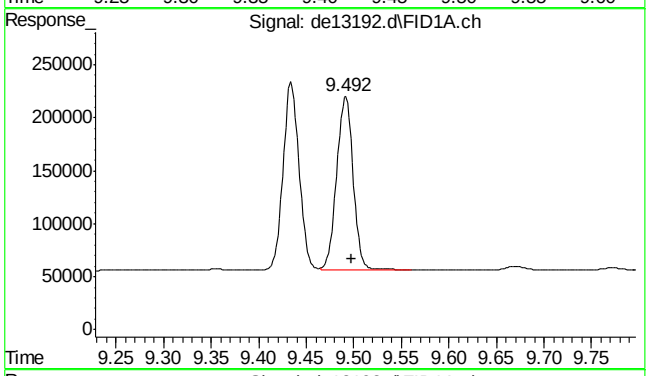
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml



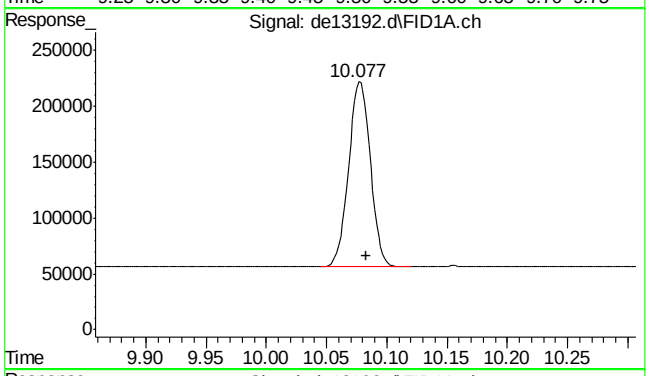
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



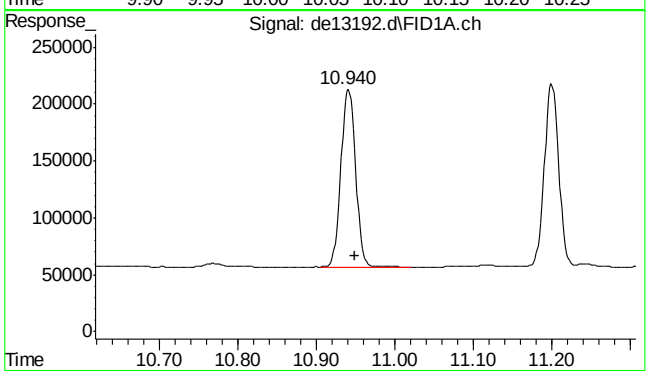
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 199105
Conc: 2.02 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 208029
Conc: 1.95 µg/ml



#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 203479
Conc: 1.96 µg/ml

9.5.2

9

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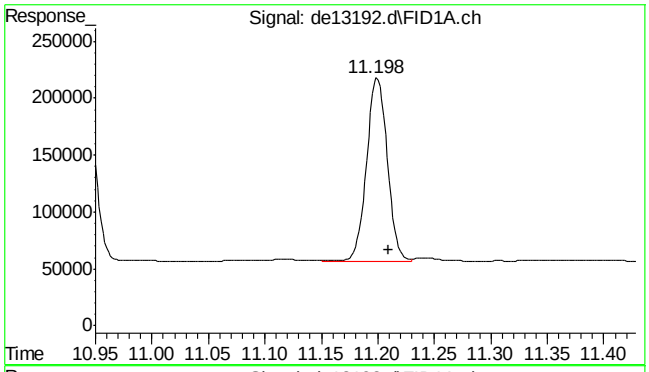
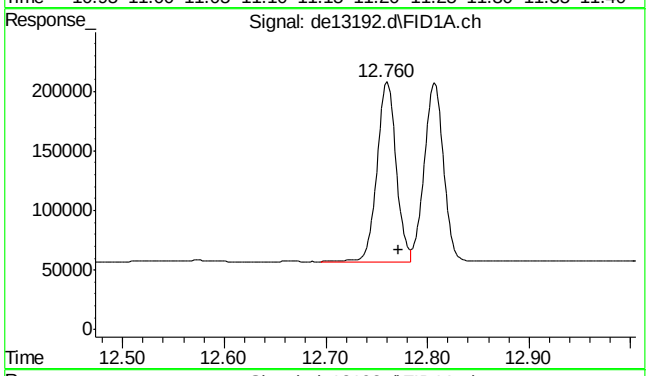


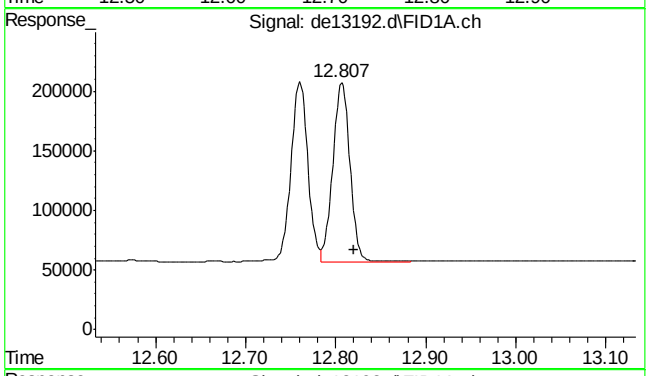
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



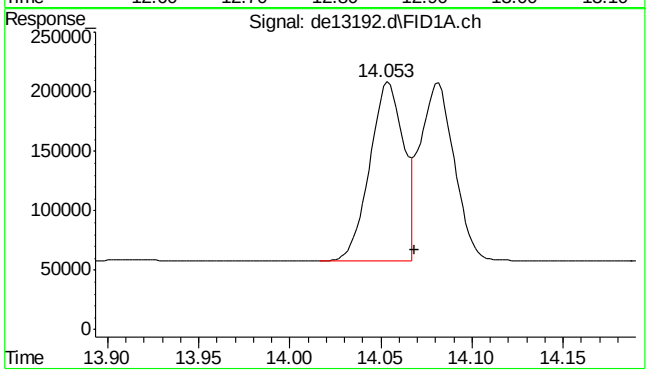
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



#15 chrysene

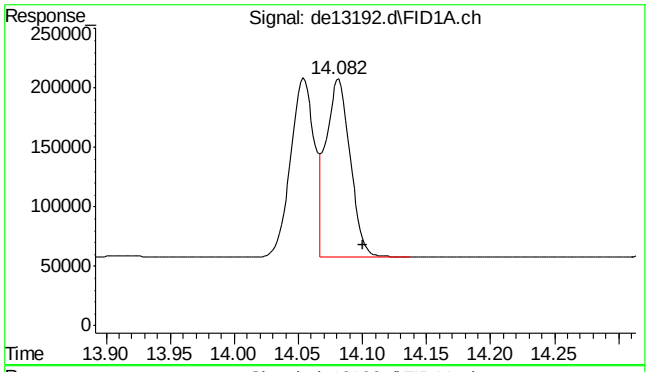
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



#16 benzo(B)fluoranthene

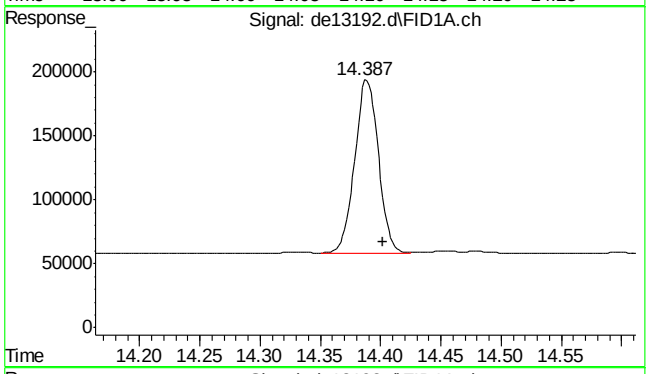
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m

SGS ACCUTEST MC45678



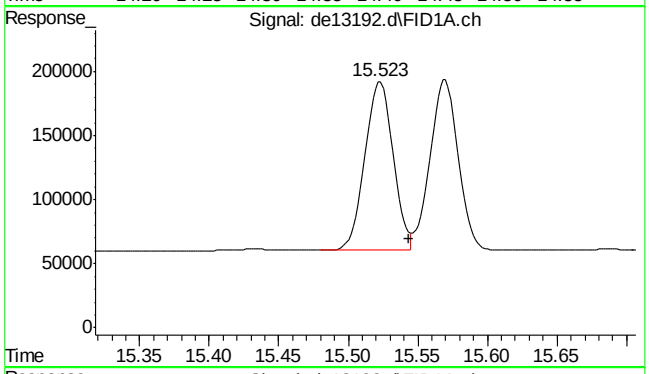
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



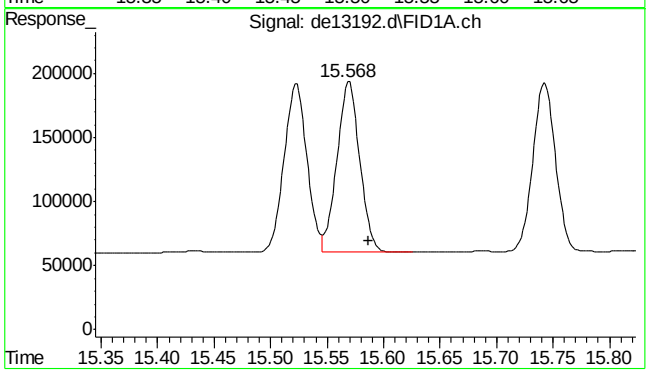
#18 benzo(a)pyrene

R.T.: 14.387 min
Delta R.T.: -0.015 min
Response: 184685
Conc: 1.91 µg/ml



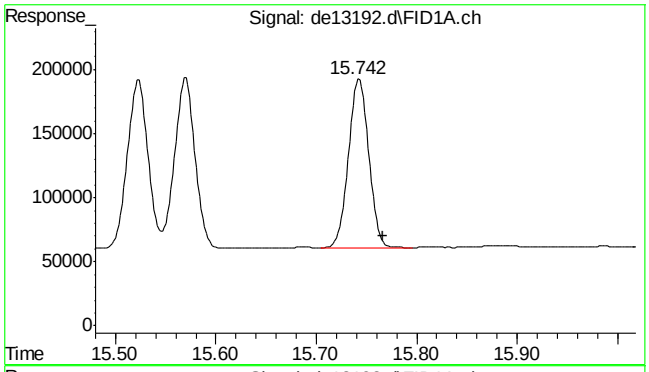
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



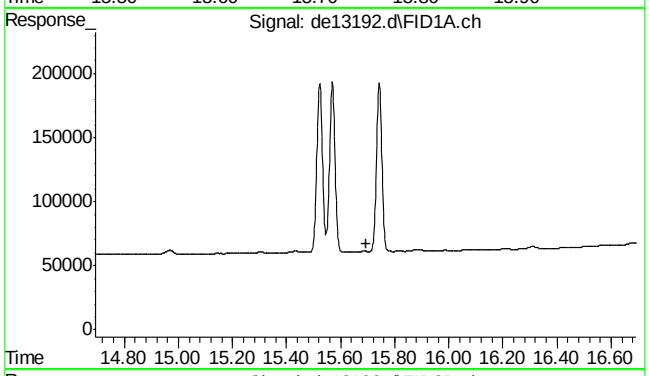
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml



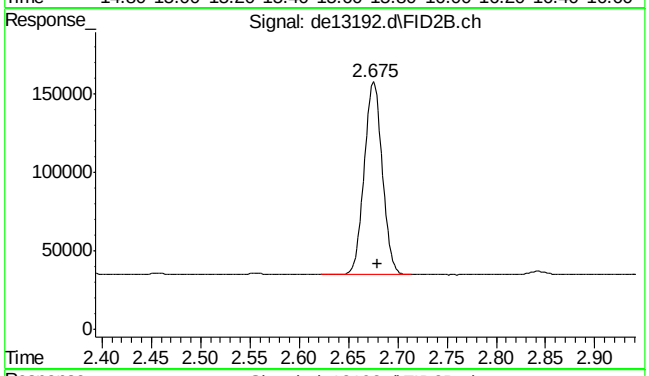
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



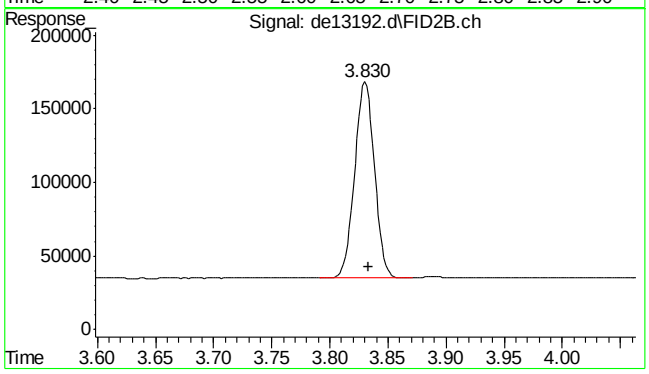
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

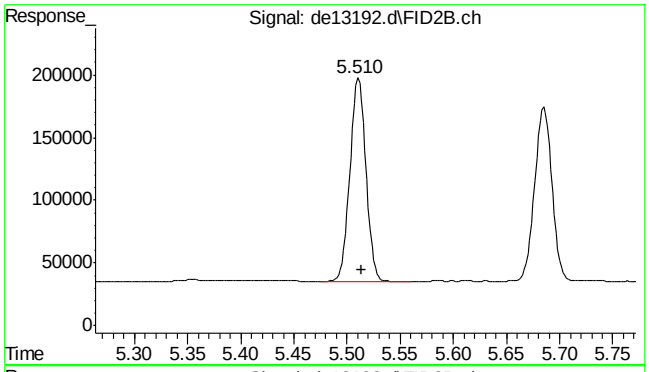
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 157422
Conc: 2.14 µg/ml m



#26 c-10

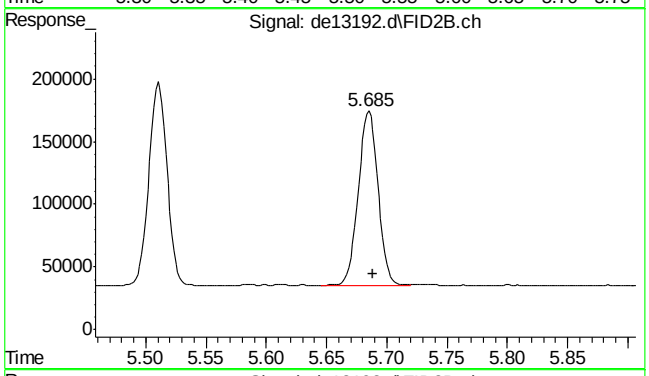
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 158649
Conc: 2.14 µg/ml m

SGS ACCUTEST MC45678



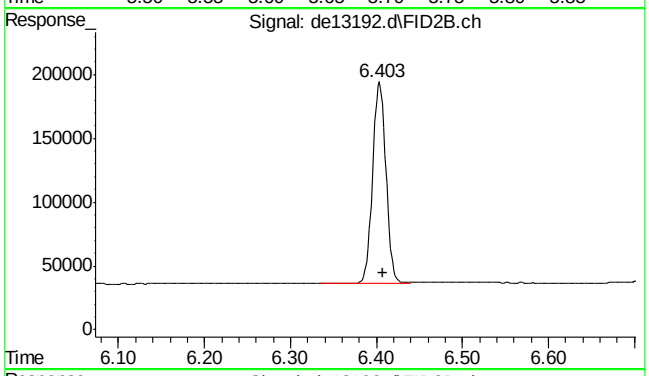
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



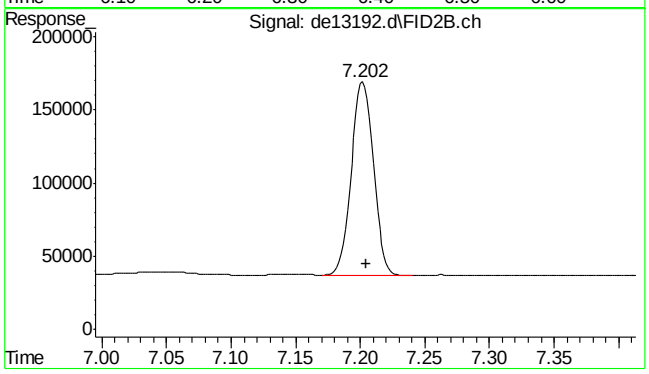
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 157764
Conc: 2.14 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 172009
Conc: 2.15 µg/ml



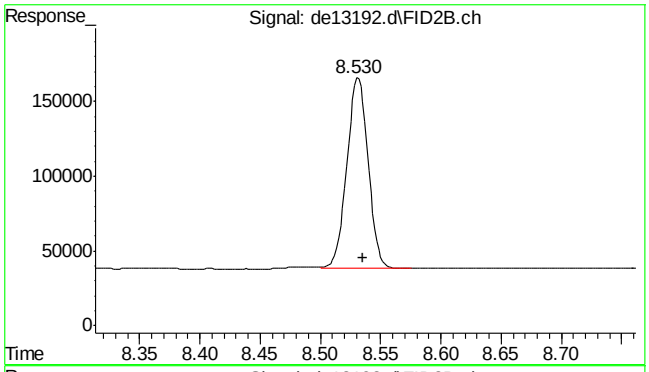
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.5.2

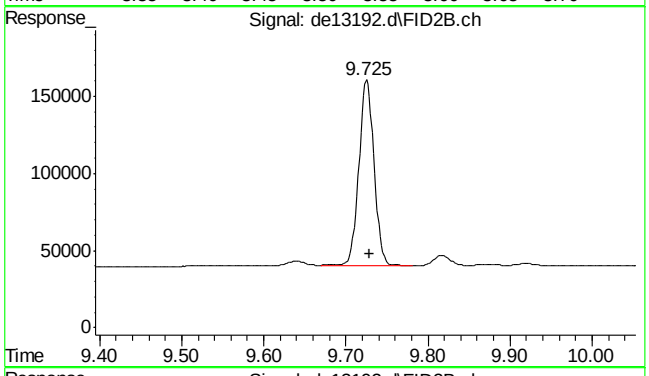
9

SGS ACCUTEST MC45678



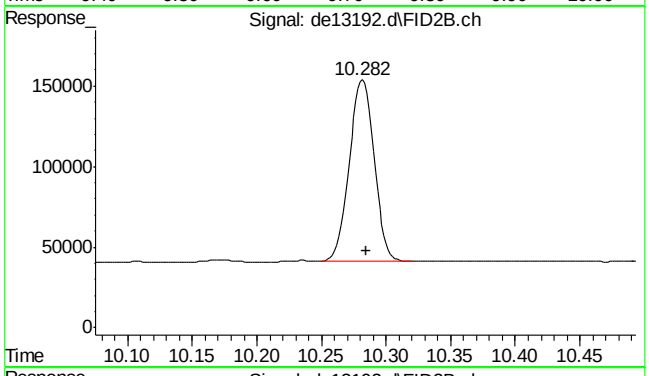
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



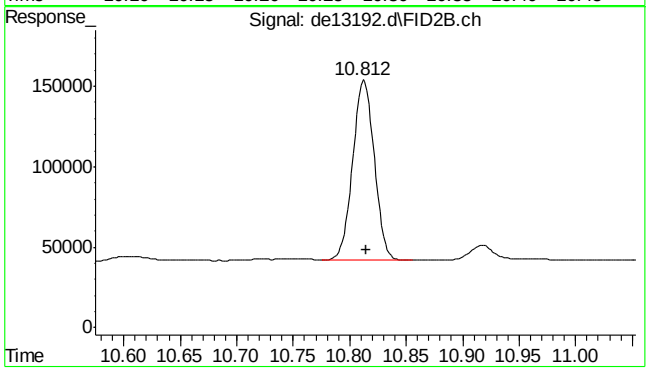
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



#33 c-19

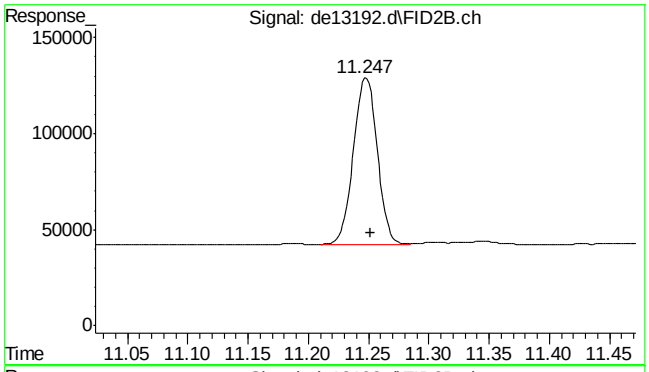
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



#34 c-20

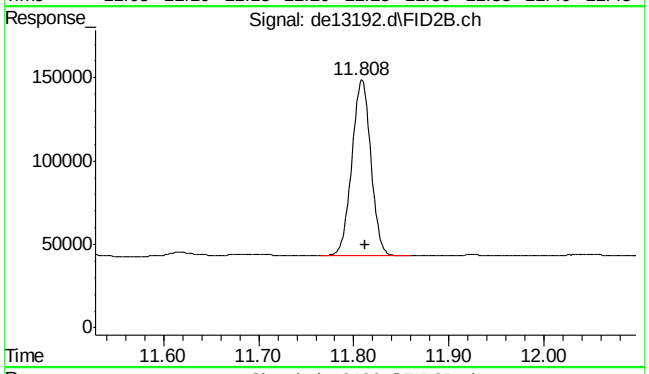
R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

SGS ACCUTEST MC45678



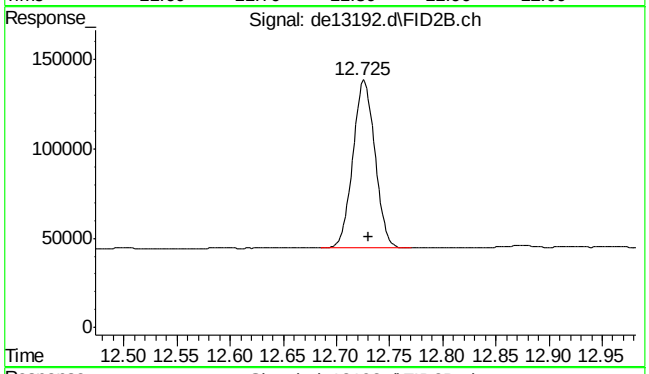
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



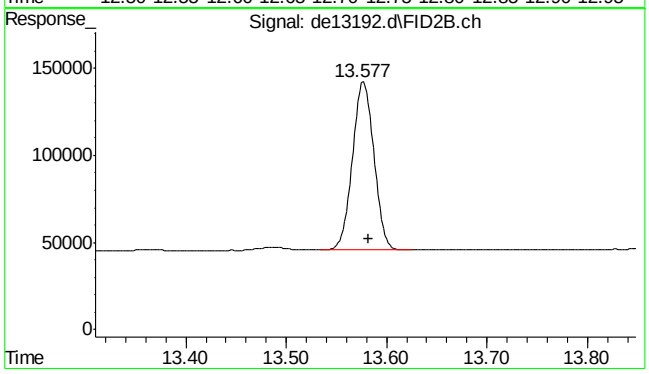
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

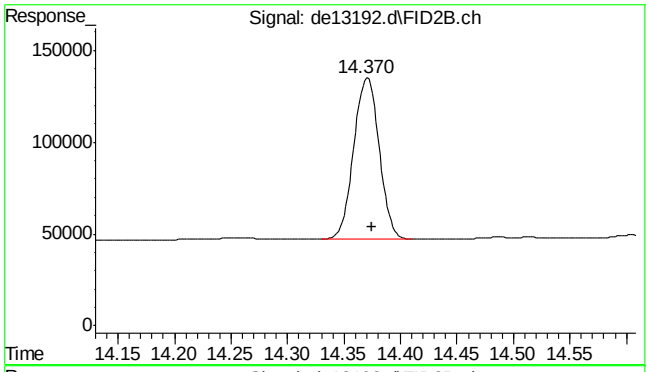
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

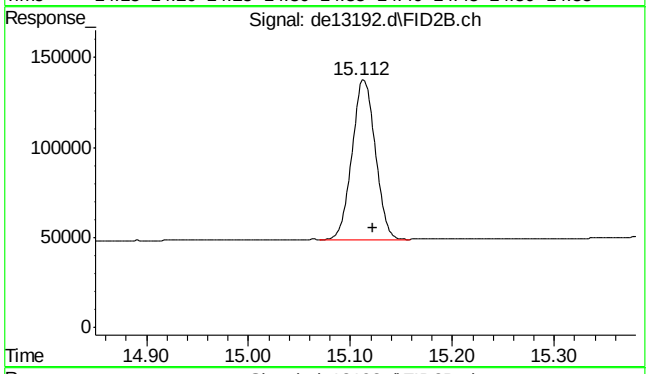
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC45678



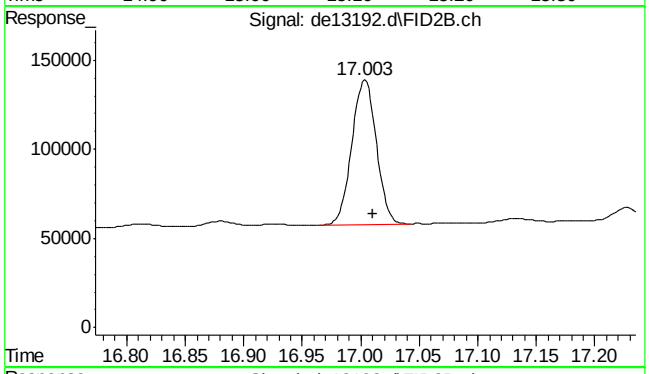
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



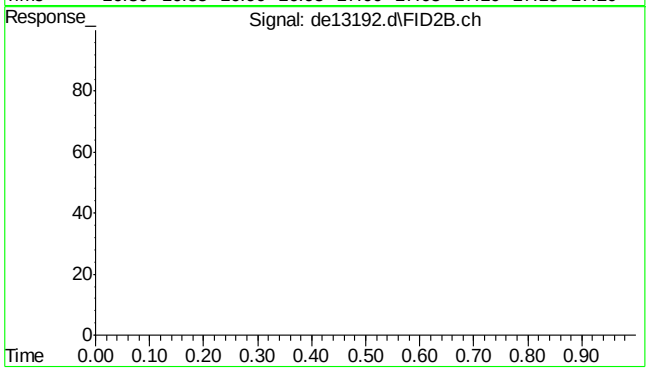
#40 c-30

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



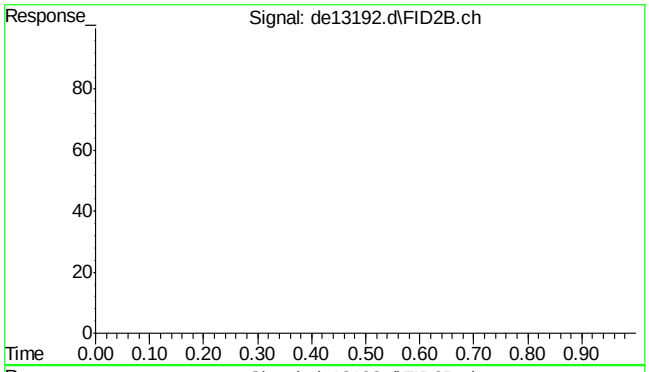
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.2

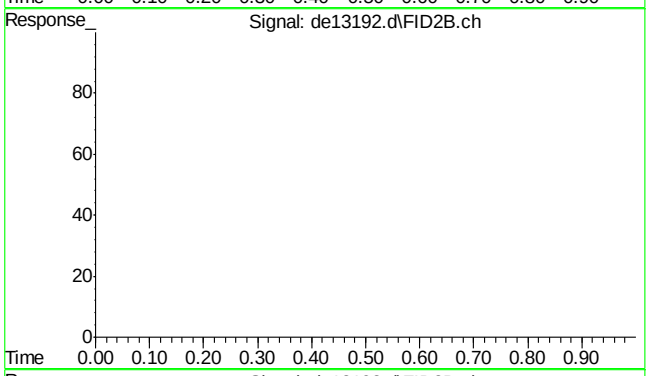
9

SGS ACCUTEST MC45678



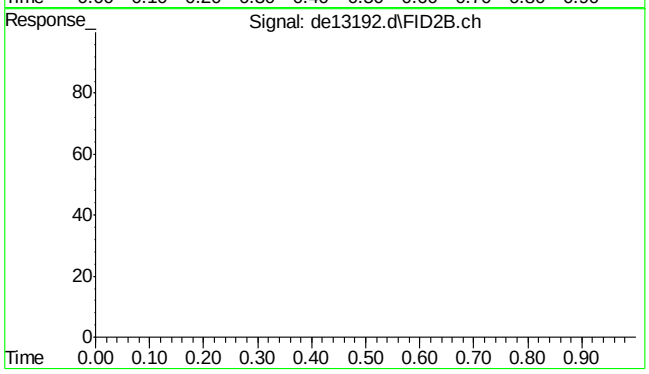
#43 bht

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.

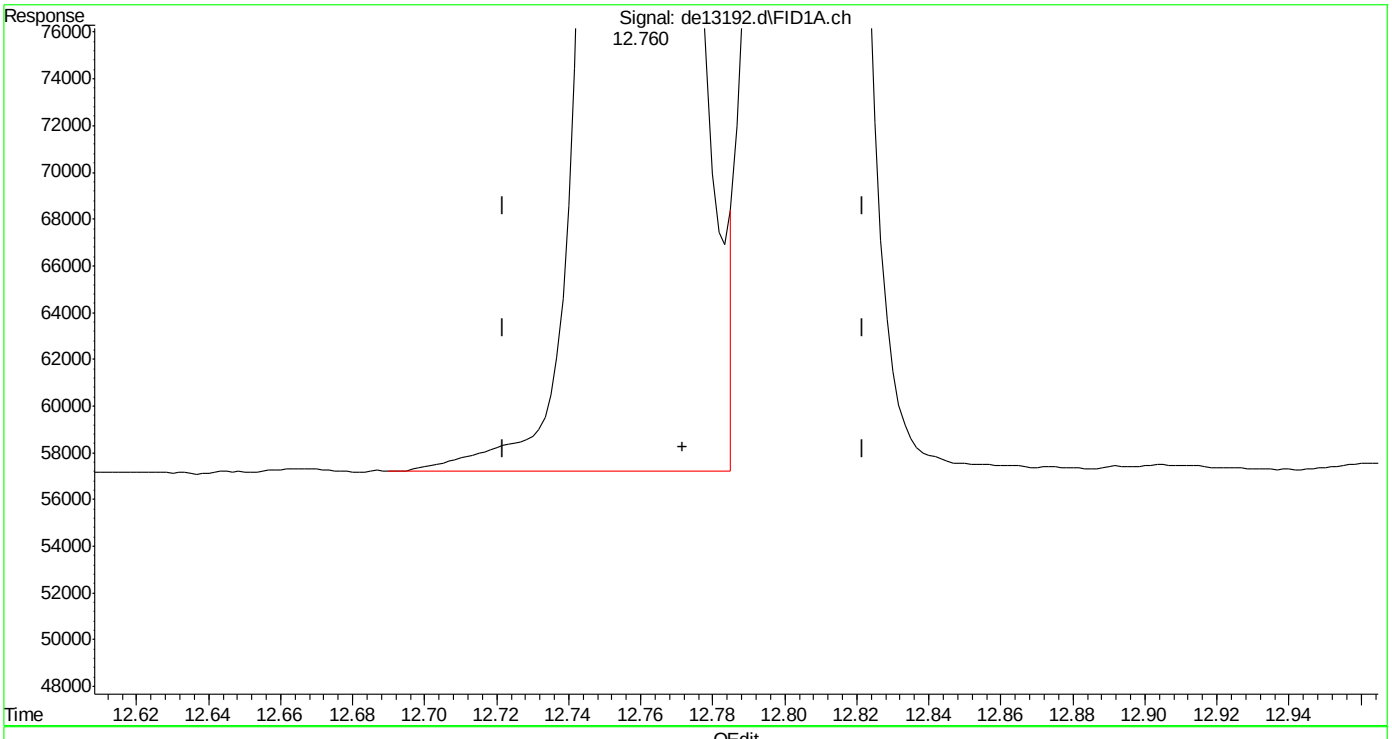
SGS ACCUTEST MC45678

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

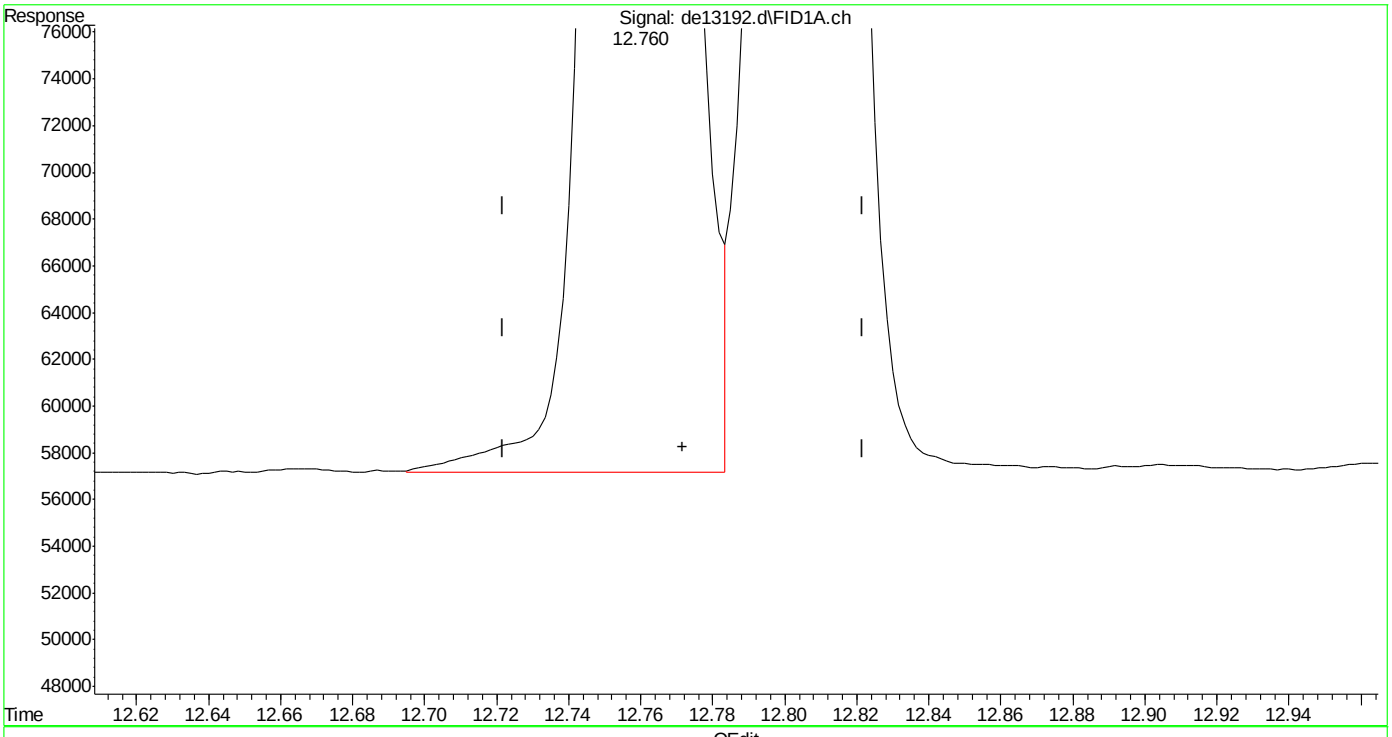
(+) = Expected Retention Time

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

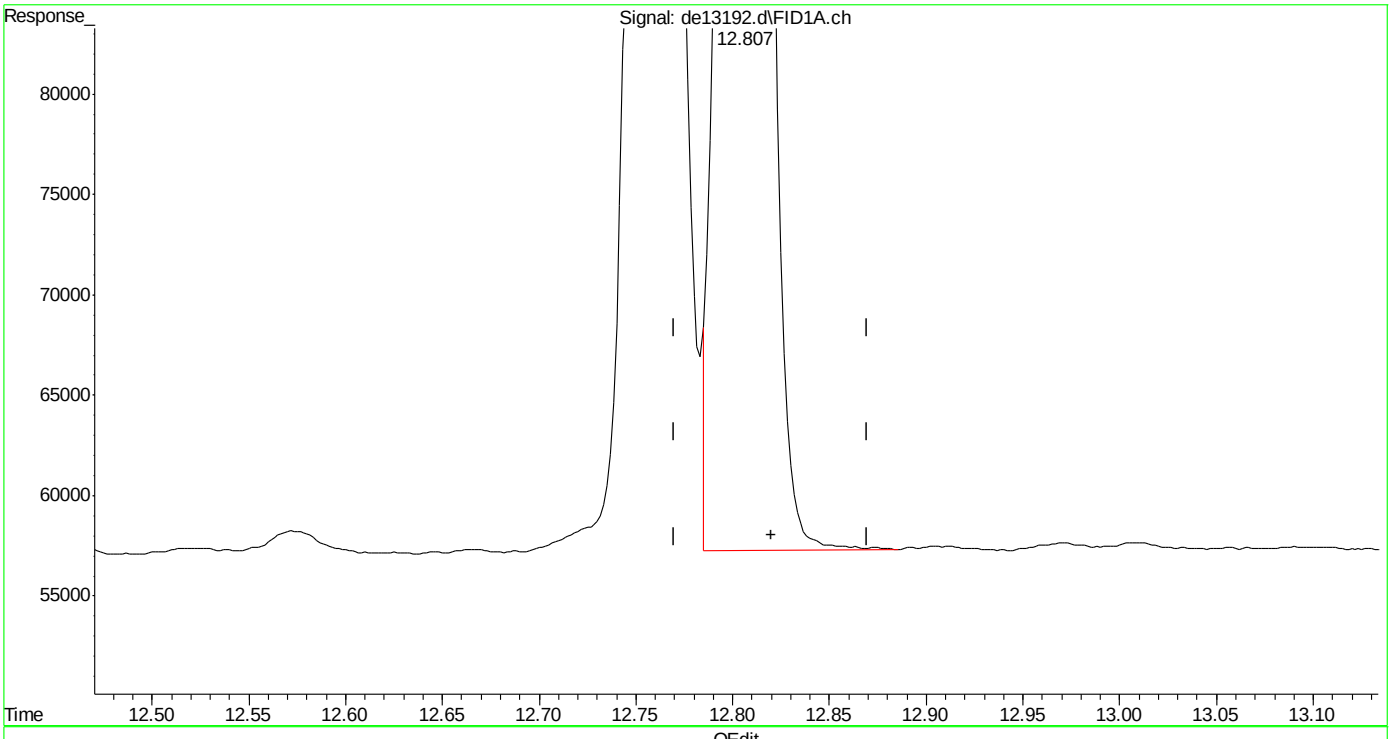
SGS ACCUTEST MC45678

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

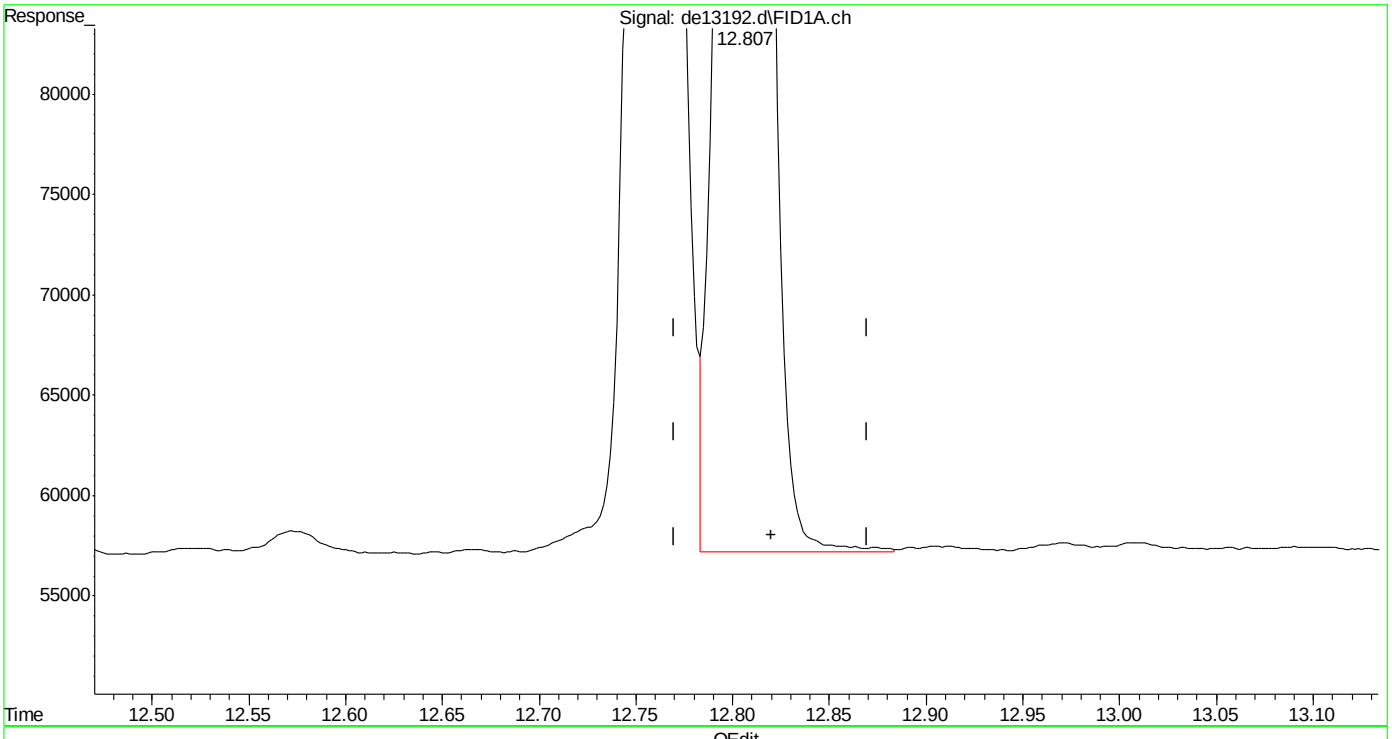
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.807min 1.992 µg/ml m
response 197927

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:40:19 2016

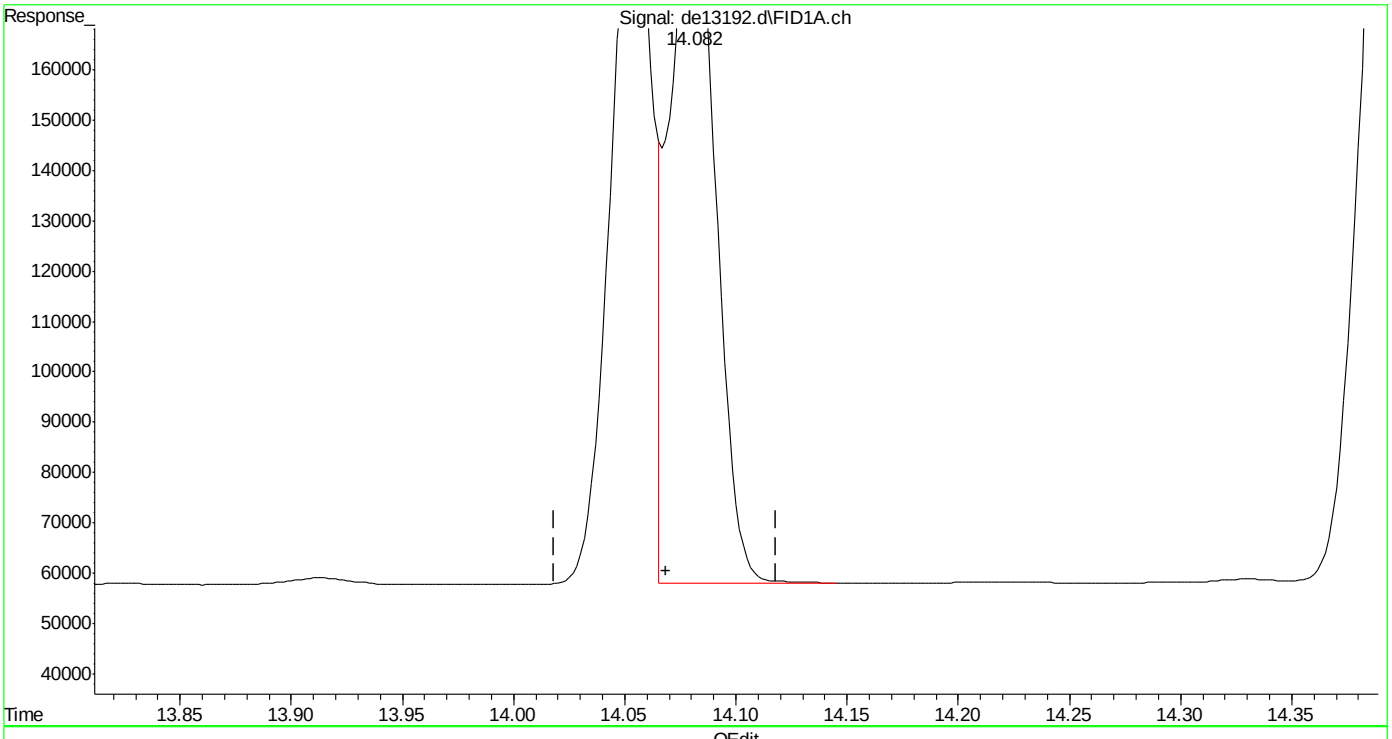
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.082min 1.990 µg/ml
response 202408

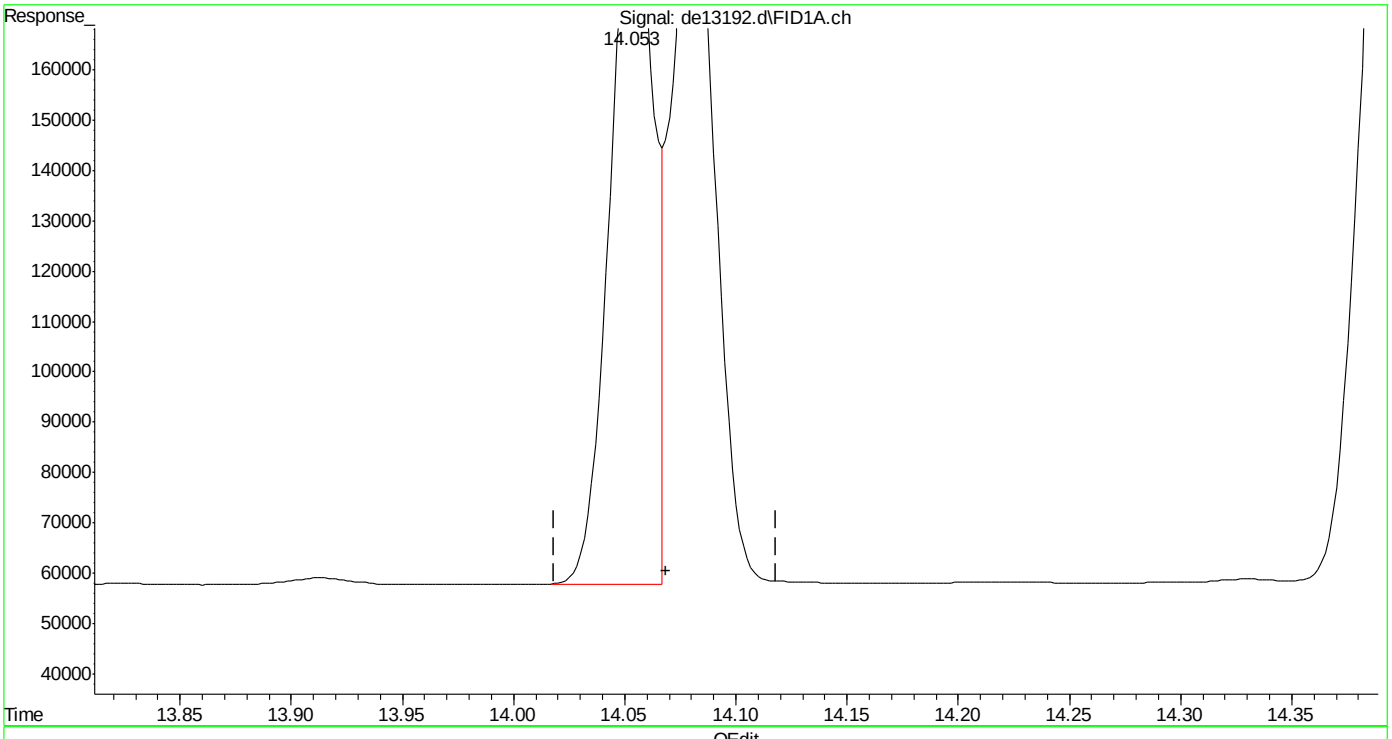
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.053min 1.943 µg/ml m
response 197572

(+) = Expected Retention Time

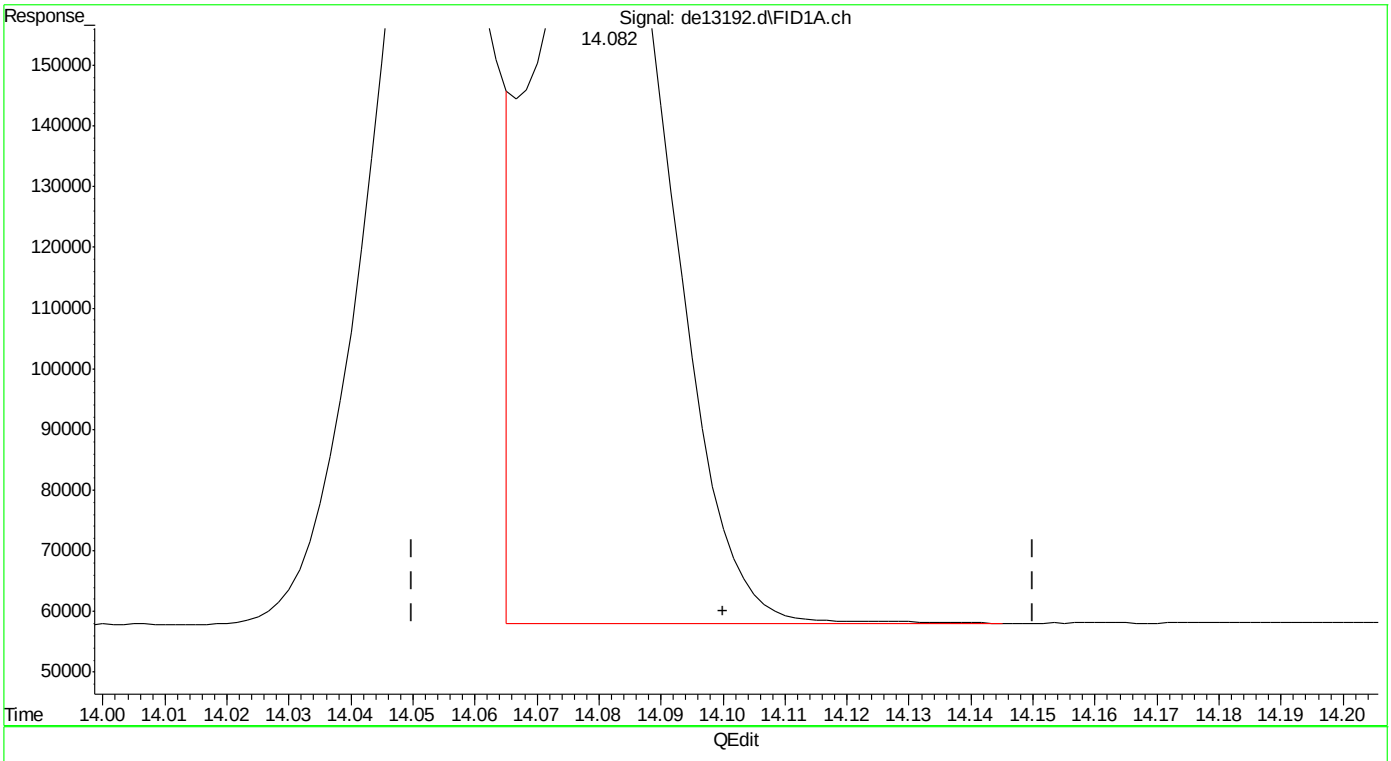
SGS ACCUTEST MC45678

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

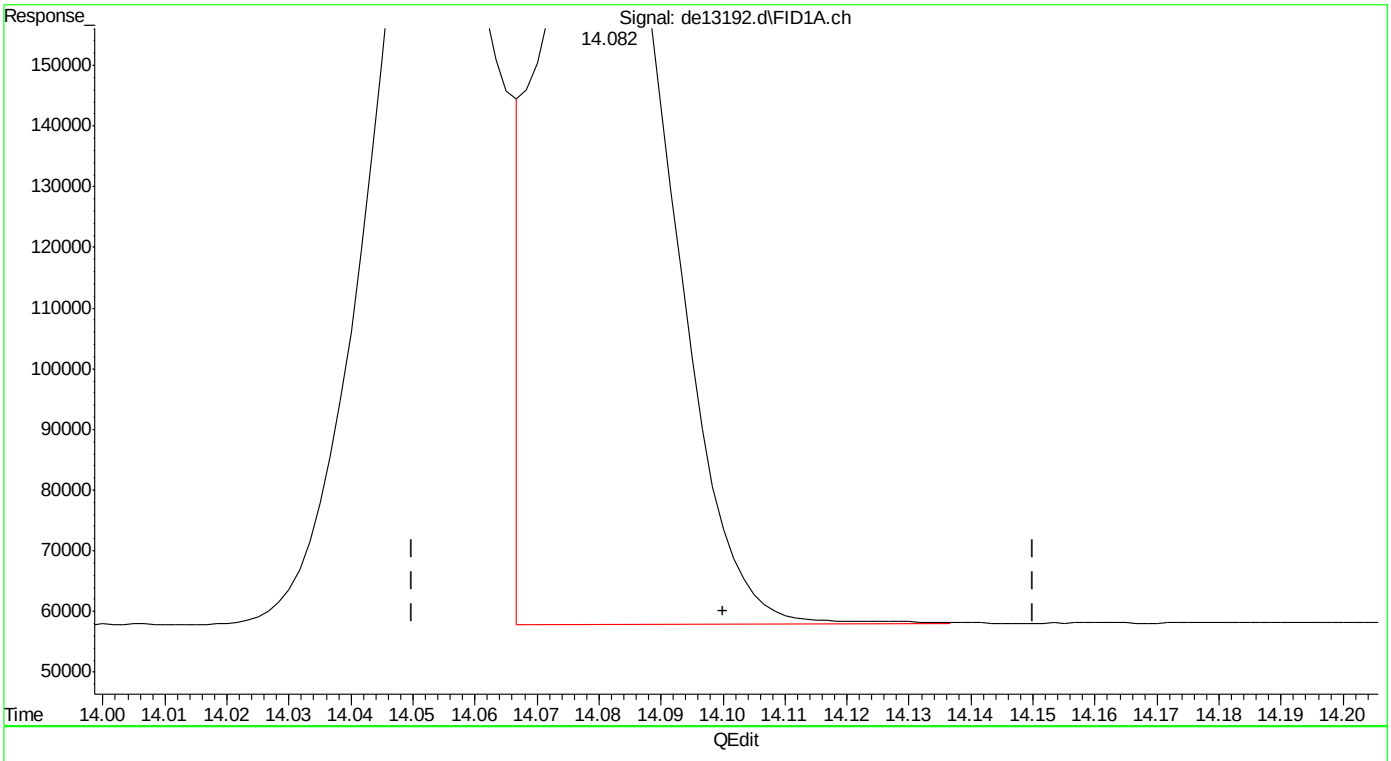
SGS ACCUTEST MC45678

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

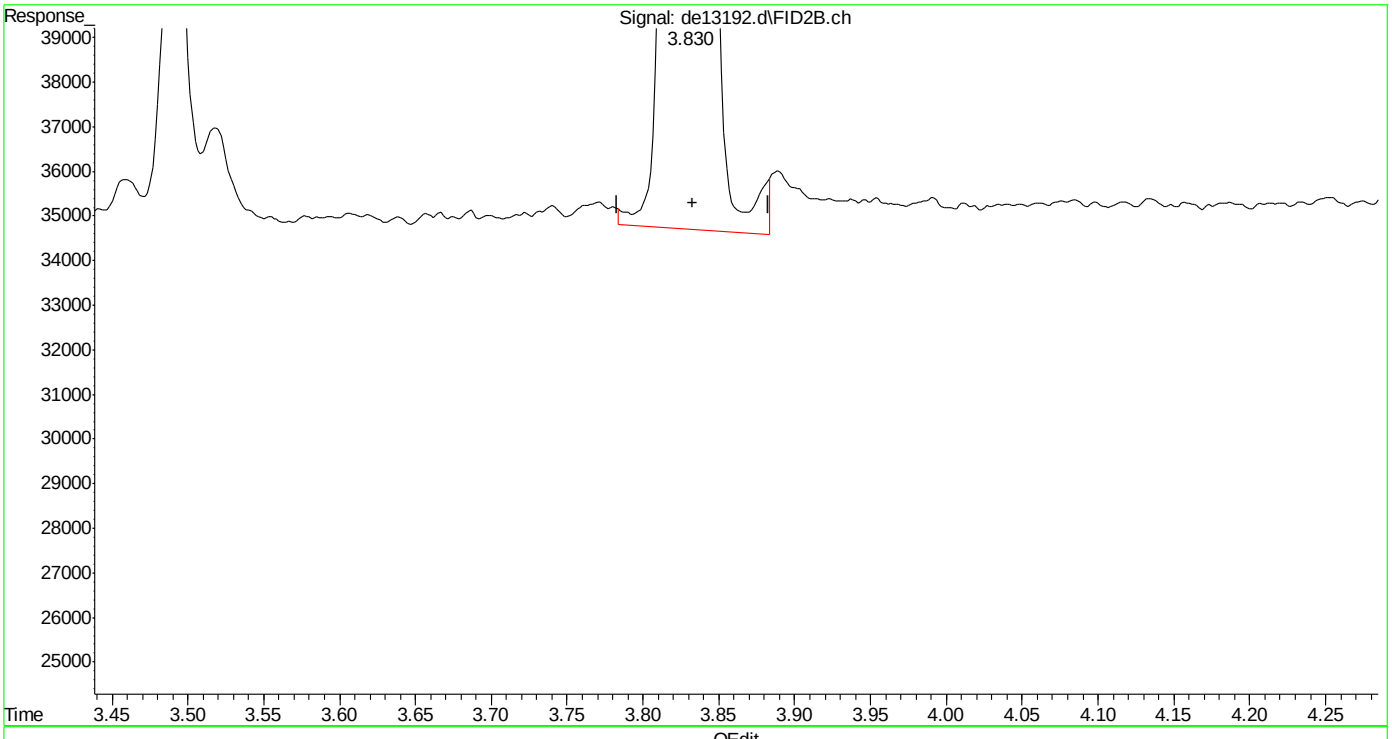
(+) = Expected Retention Time

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

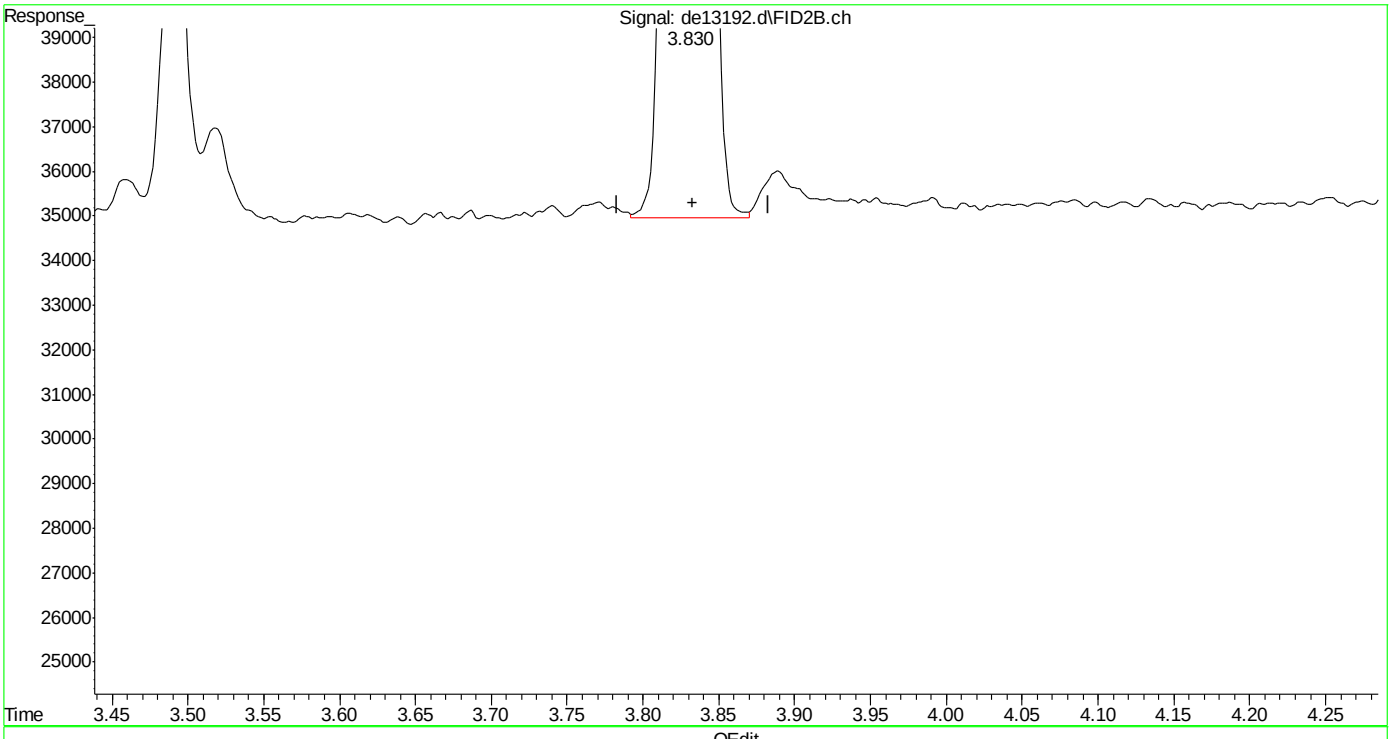
SGS ACCUTEST MC45678

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

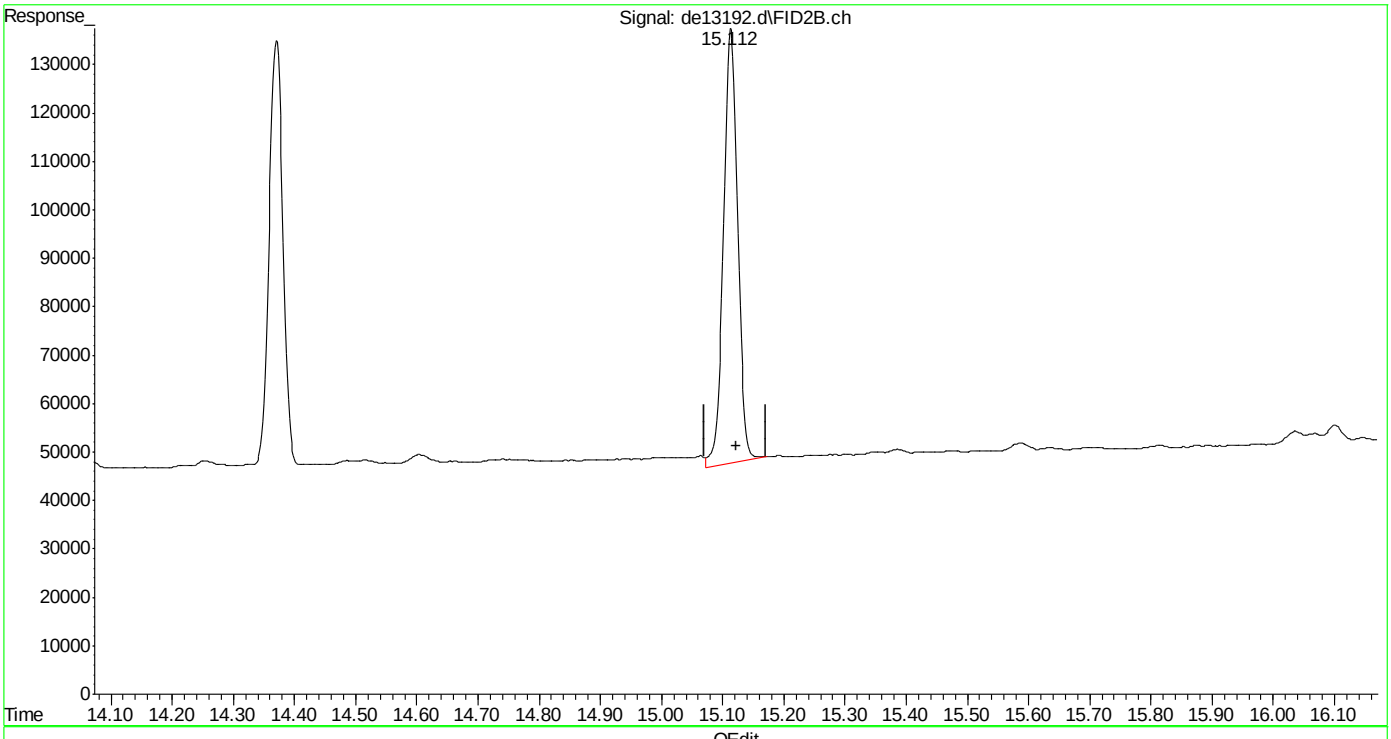
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.122min 2.133 µg/ml
response 145740

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:41:23 2016

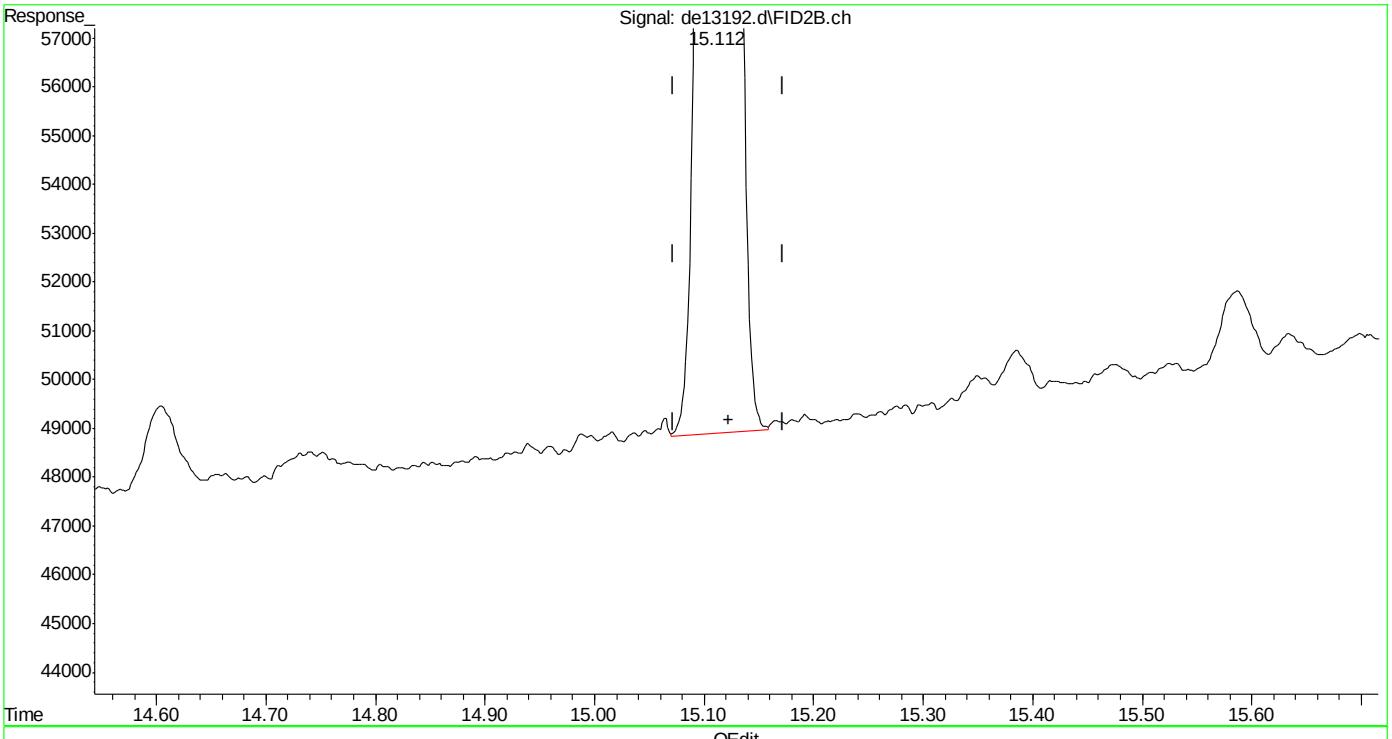
SGS ACCUTEST MC45678

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

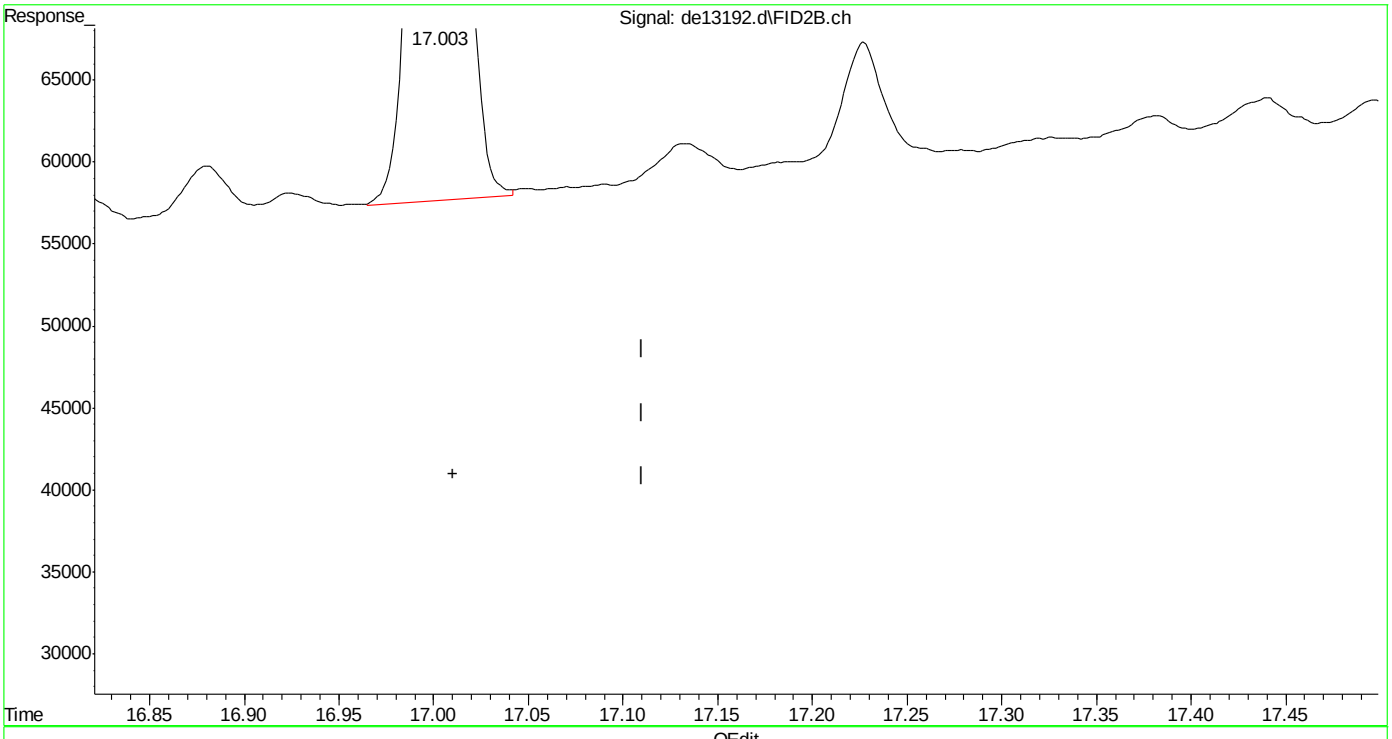
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(41) c-36 (h)
17.010min 1.930 µg/ml m
response 119416

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:41:37 2016

SGS ACCUTEST MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	466222	4.822 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.11%		
6) s 2-bromonaphthalene	7.532	318410	4.852 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.26%		
11) s o-terphenyl	10.078	516185	4.888 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.44%		
35) s 1-chlorooctadecane	11.248	298238	5.342 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 26.71%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	9069374	5.748 µg/mlm
2) naphthalene	5.352	522941	4.813 µg/ml
3) 2-methylnaphthalene	6.250	518620	4.819 µg/ml
5) acenaphthylene	7.367	513706	4.852 µg/ml
7) acenaphthene	7.608	524765	4.857 µg/ml
8) fluorene	8.252	515691	4.866 µg/ml
9) phenanthrene	9.435	514273	4.881 µg/ml
10) anthracene	9.492	492058	5.024 µg/ml
12) fluoranthene	10.942	501463	4.866 µg/ml
13) pyrene	11.200	505877	4.848 µg/ml
14) benzo(a)anthracene	12.762	484563	4.921 µg/mlm
15) chrysene	12.807	488834	4.923 µg/mlm
16) benzo(B)fluoranthene	14.055	499942	4.931 µg/mlm
17) benzo(k)fluoranthene	14.085	474469	4.875 µg/mlm
18) benzo(a)pyrene	14.390	464216	4.850 µg/ml
19) indeno(1,2,3-cd)pyrene	15.525	472235	4.822 µg/mlm
20) dibenzo(ah)anthracene	15.572	466623	4.975 µg/mlm
21) benzo(ghi)perylene	15.745	463653	4.908 µg/ml
25) h c-9	2.680	396890	5.301 µg/mlm
26) h c-10	3.833	401630	5.322 µg/ml
27) naphthalene #2	5.510	427200	5.413 µg/ml
28) c-12	5.685	398273	5.304 µg/ml
29) 2-methylnaphthalene #2	6.403	429906	5.303 µg/ml
30) c-14	7.202	396429	5.271 µg/ml
31) c-16	8.532	389860	5.199 µg/ml
32) c-18	9.725	383929	5.164 µg/ml
33) c-19	10.282	381074	5.280 µg/ml
34) c-20	10.812	369620	5.213 µg/ml
36) c-22	11.808	364434	5.218 µg/ml
37) c-24	12.727	339349	5.097 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.578	359561	5.194	µg/ml
39)		c-28	14.372	345810	5.152	µg/ml
40)	h	c-30	15.122	345750	5.036	µg/mlm
41)	h	c-36	17.010	300895	4.906	µg/mlm

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

9.5.3

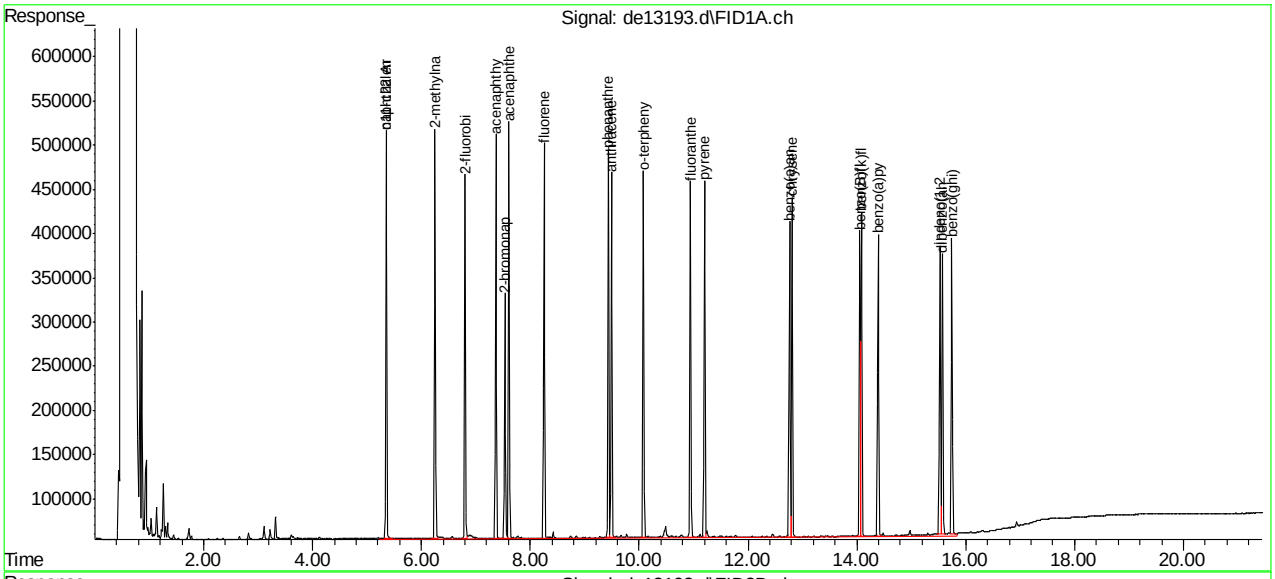
9

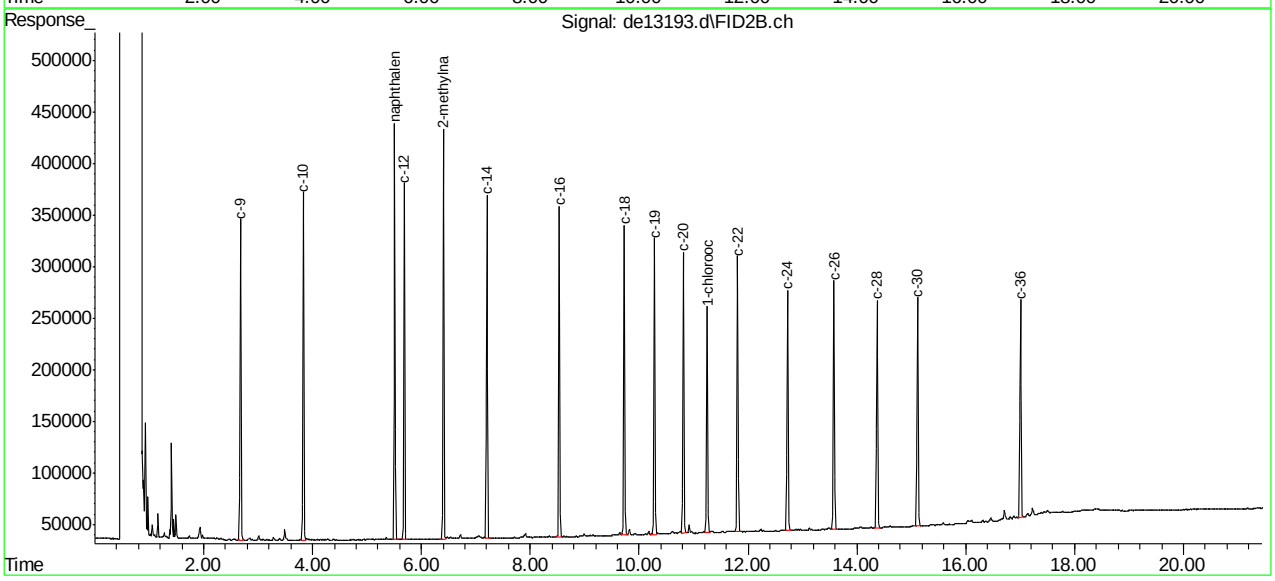
Quantitation Report (QT Reviewed)

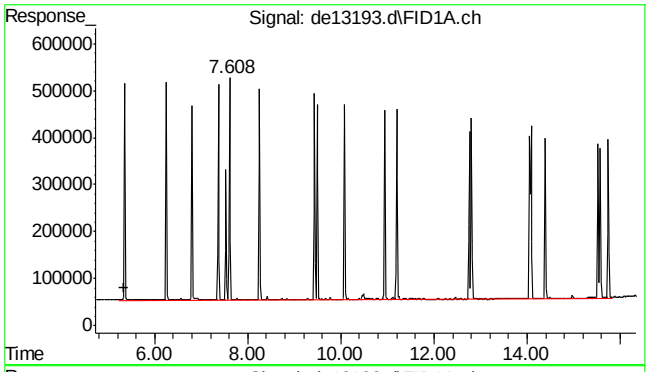
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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

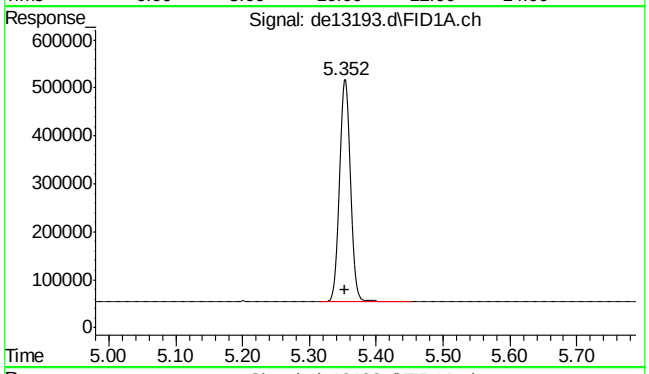






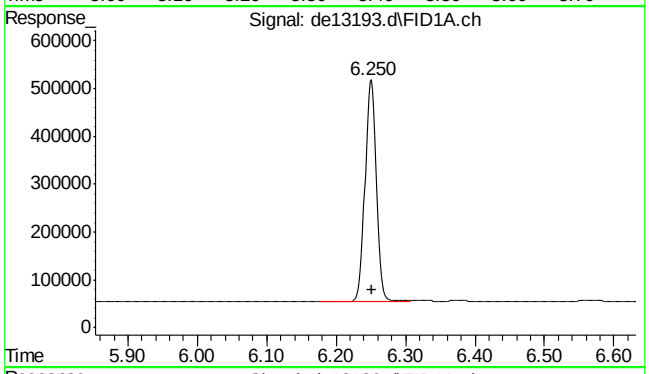
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



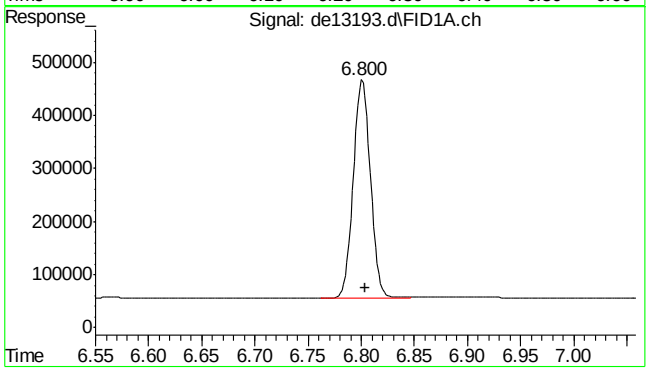
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



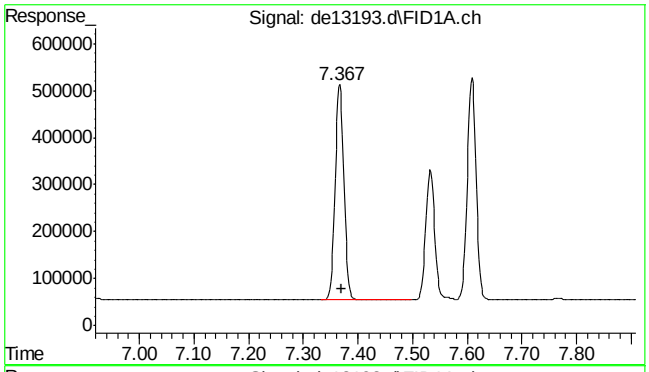
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



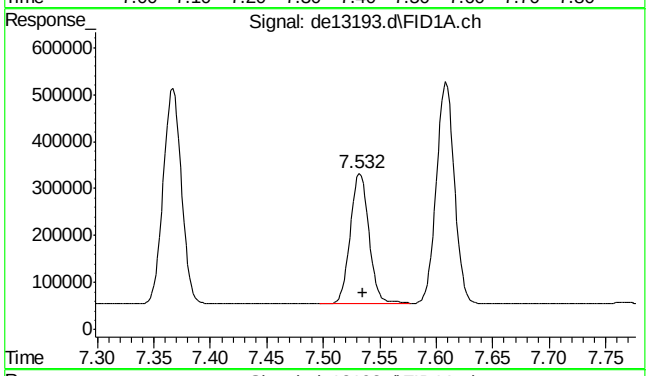
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml



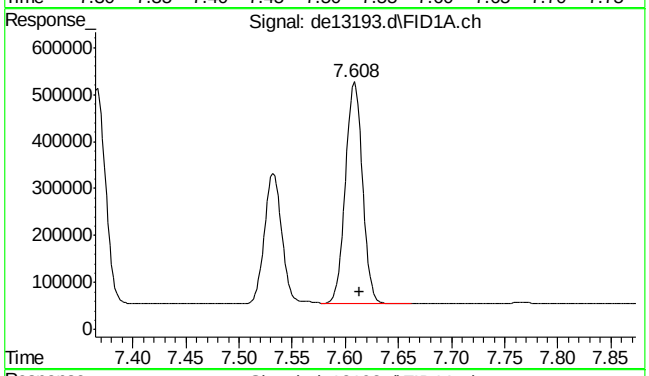
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



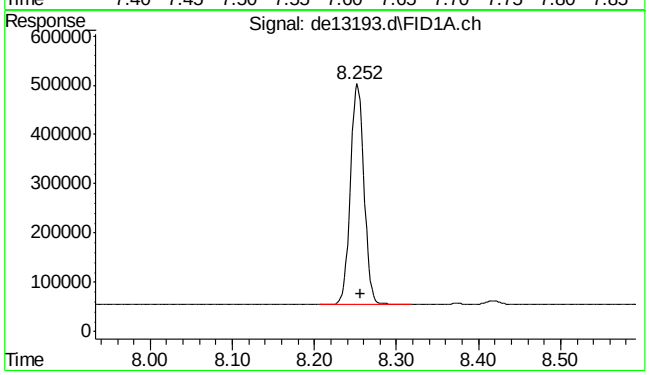
#6 2-bromonaphthalene

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

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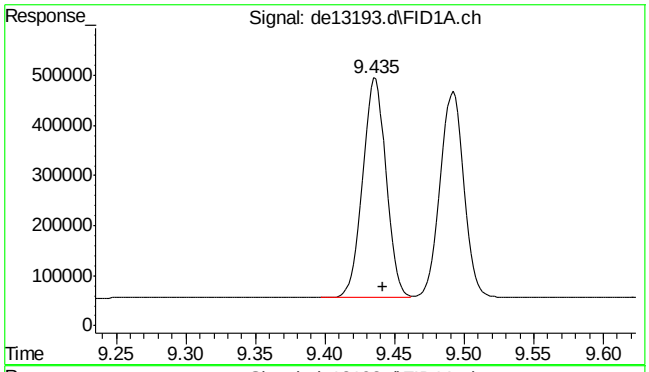
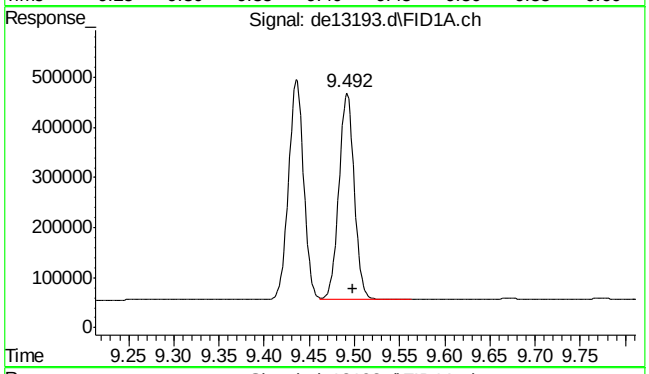


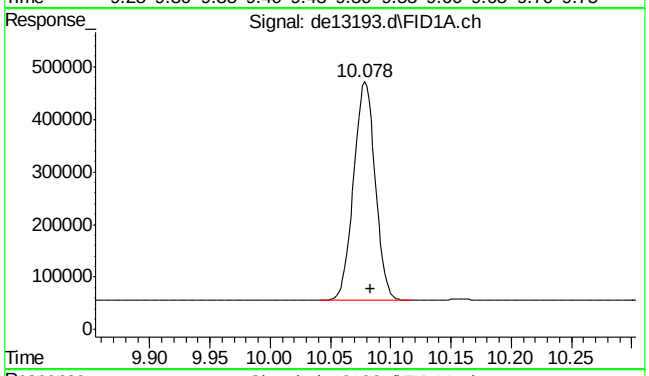
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



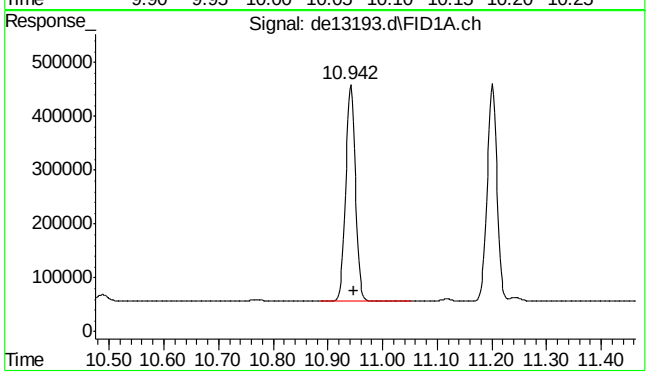
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



#11 o-terphenyl

R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



#12 fluoranthene

R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml

9.5.3

9

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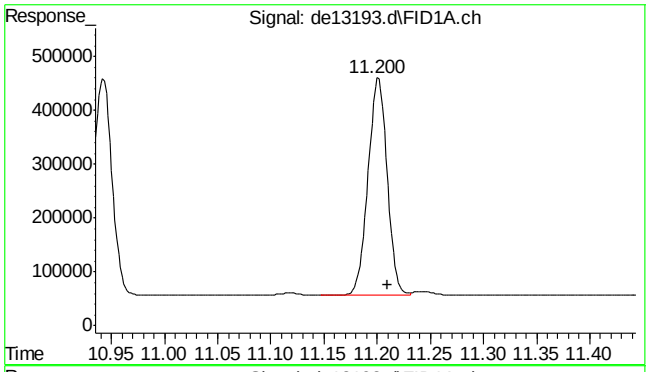
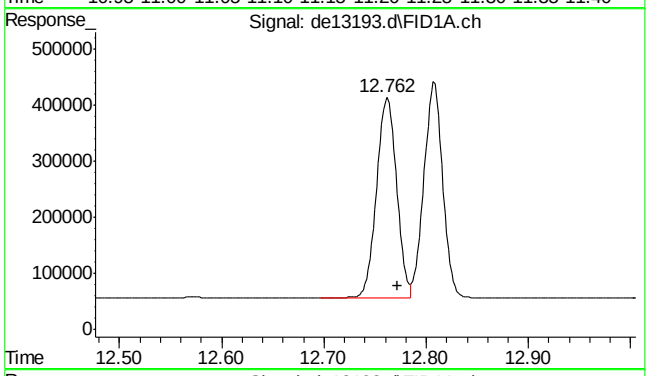


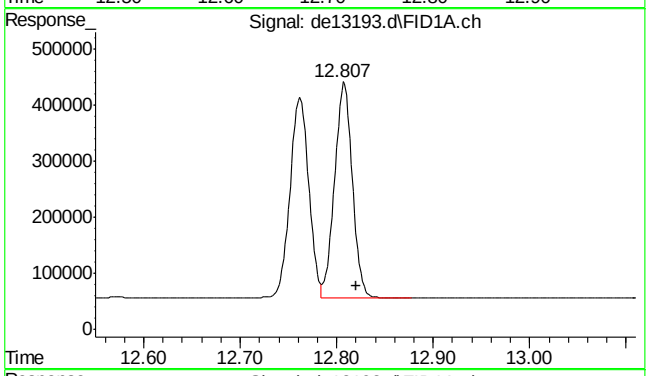
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



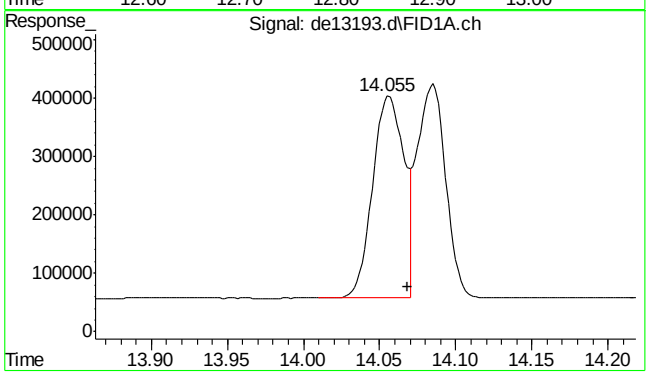
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

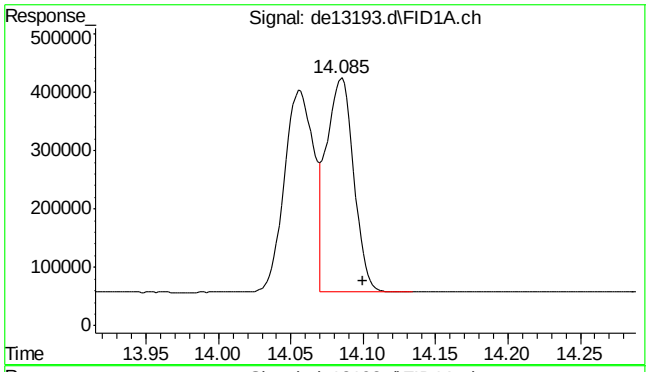
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

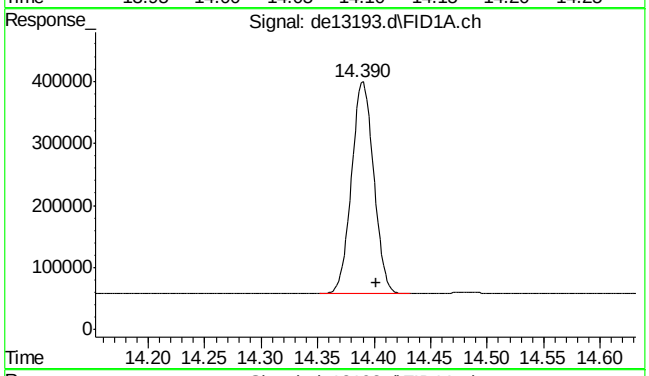
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC45678



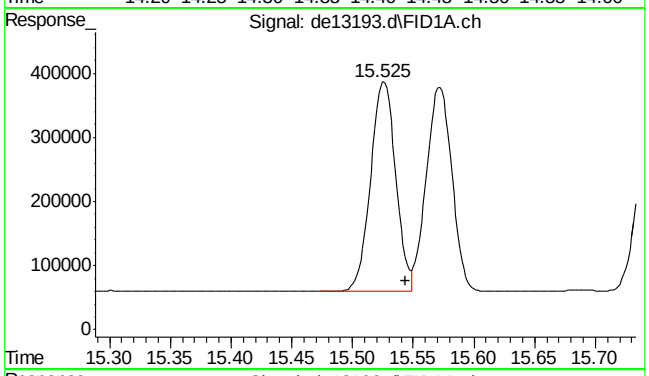
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



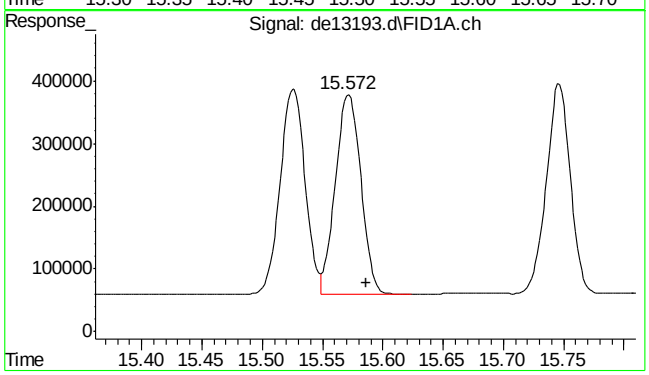
#18 benzo(a)pyrene

R.T.: 14.390 min
Delta R.T.: -0.012 min
Response: 464216
Conc: 4.85 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.525 min
Delta R.T.: -0.018 min
Response: 472235
Conc: 4.82 µg/ml m



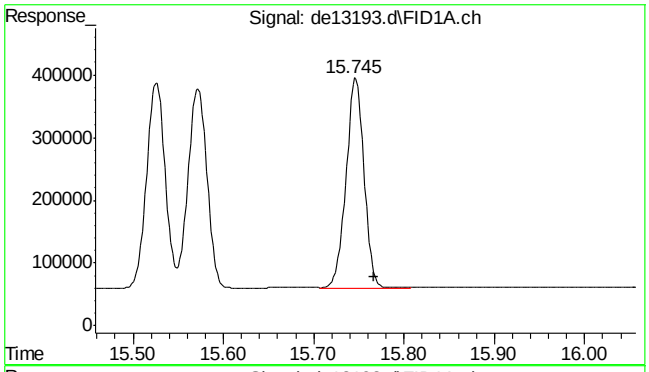
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.5.3

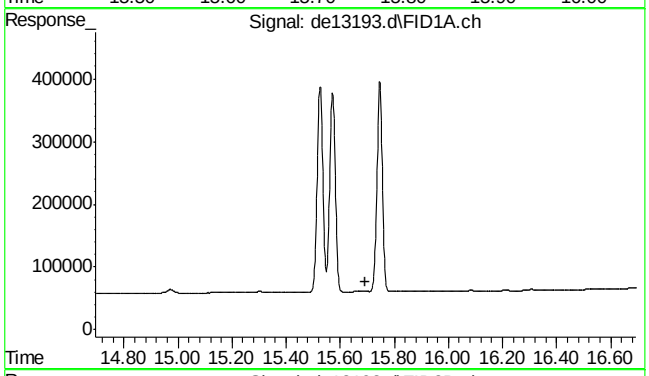
9

SGS ACCUTEST MC45678



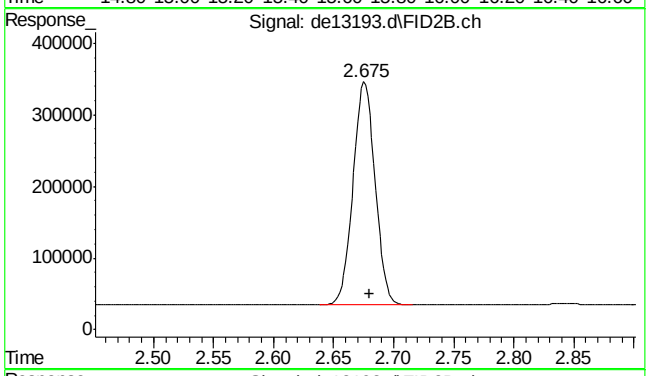
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



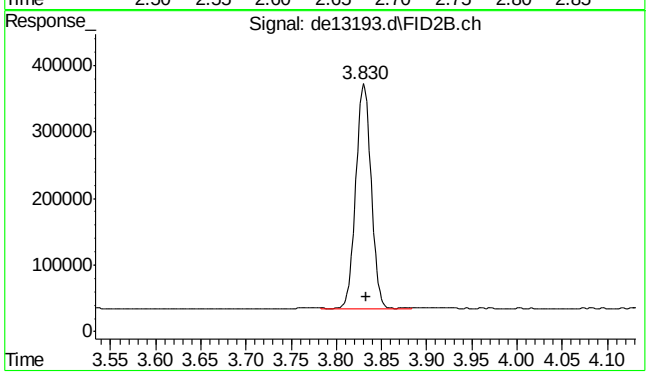
#22 bht

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



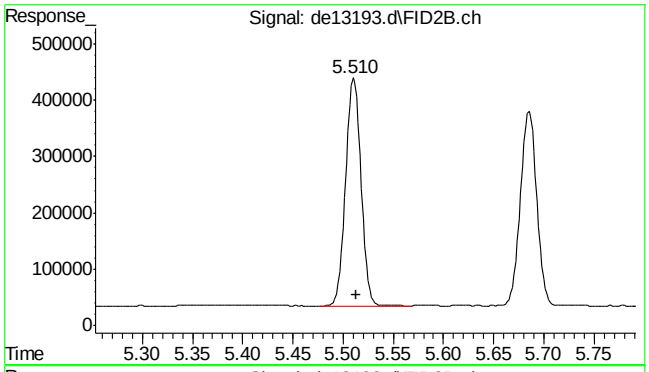
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

9.5.3

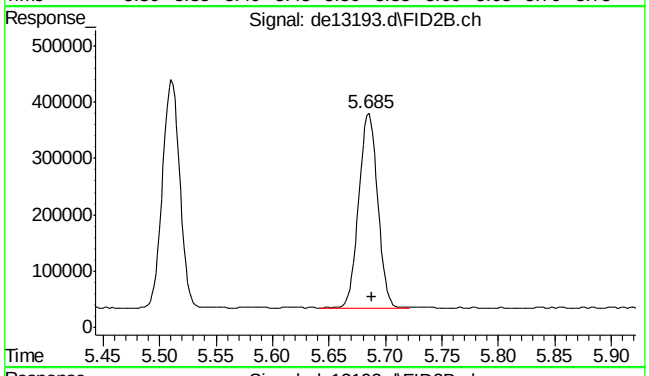
9

SGS ACCUTEST MC45678



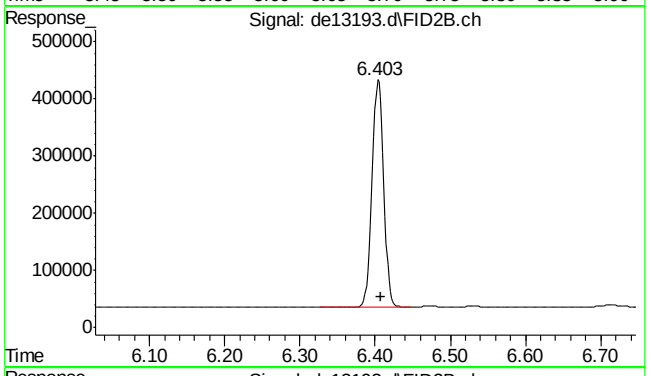
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



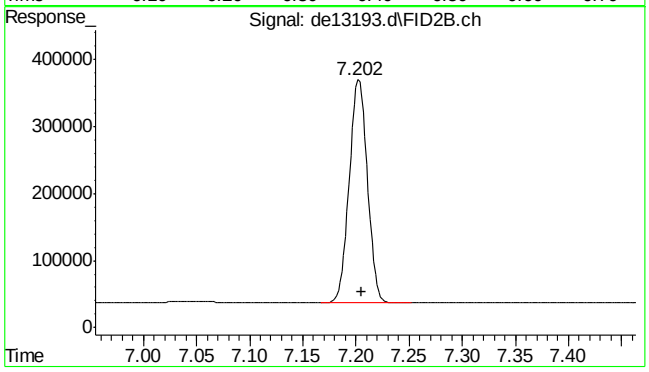
#28 c-12

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



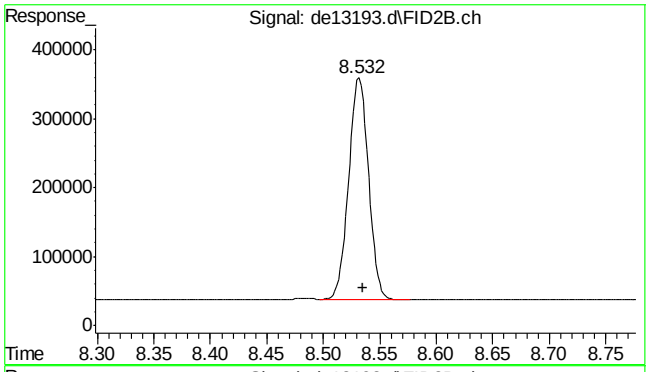
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

9.5.3

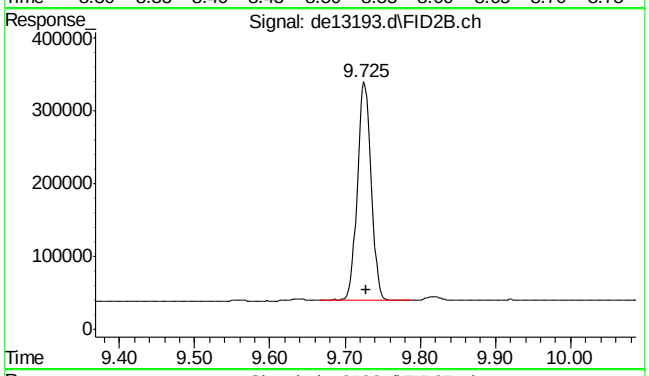
9

SGS ACCUTEST MC45678



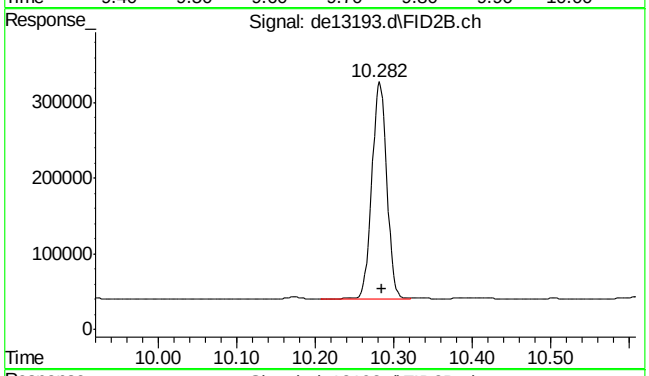
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



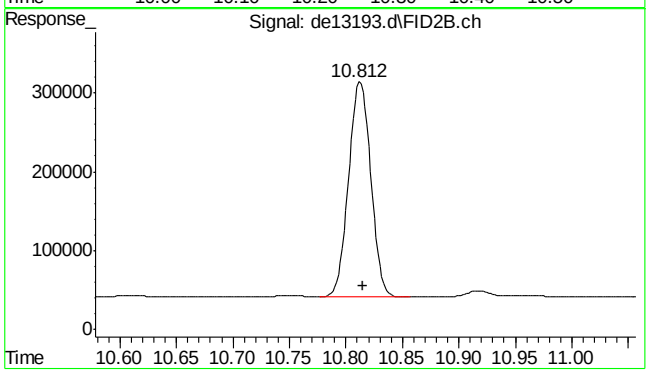
#32 c-18

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



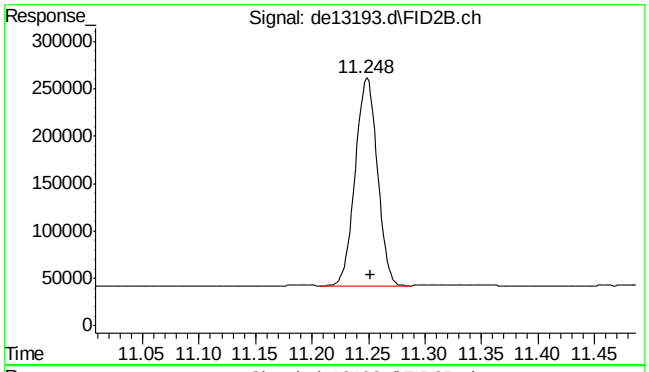
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.5.3

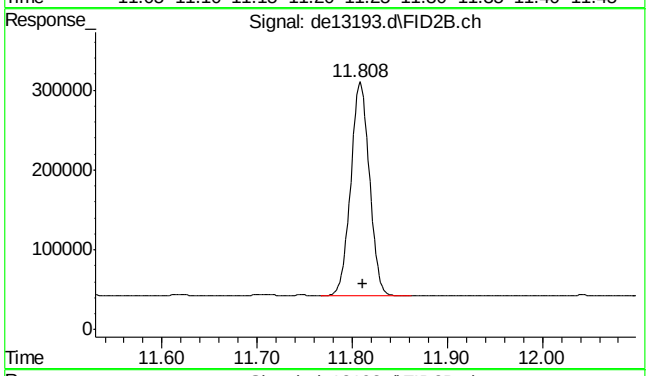
9

SGS ACCUTEST MC45678



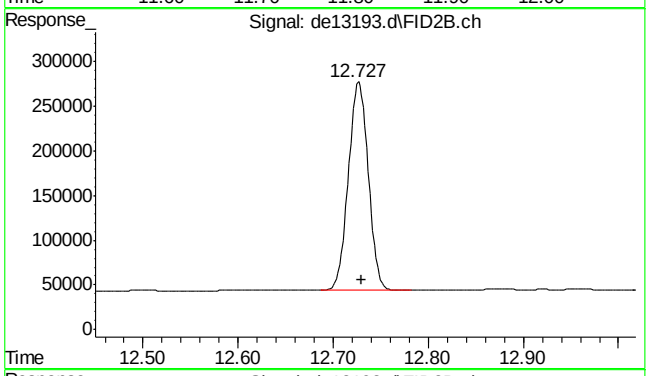
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



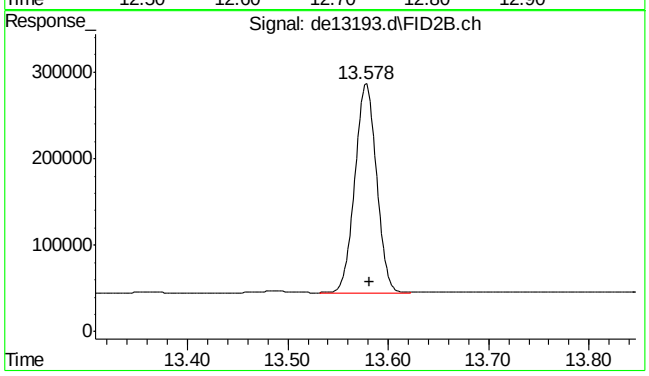
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 364434
Conc: 5.22 µg/ml



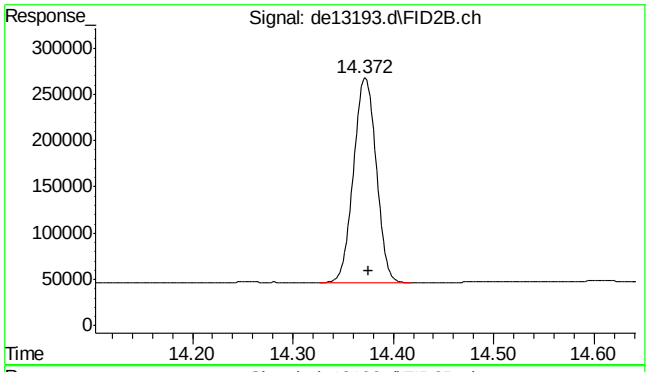
#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 339349
Conc: 5.10 µg/ml



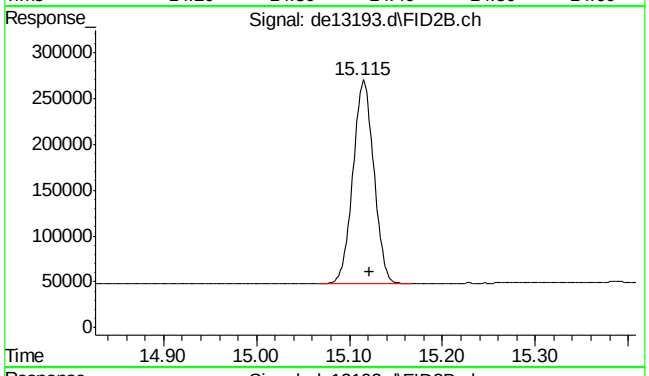
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml



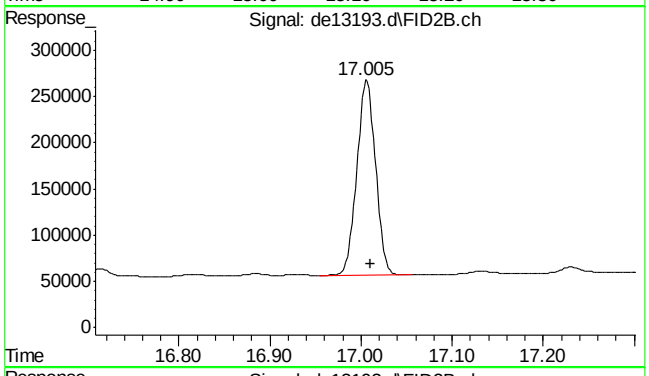
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



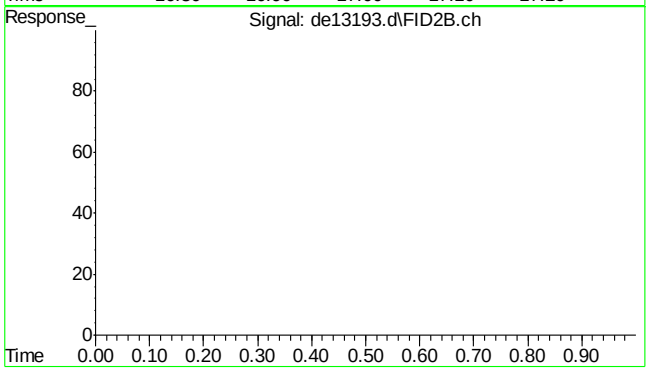
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 345750
Conc: 5.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 300895
Conc: 4.91 µg/ml m



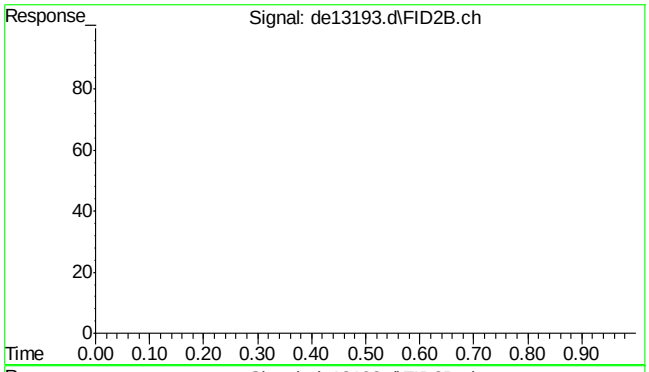
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.3

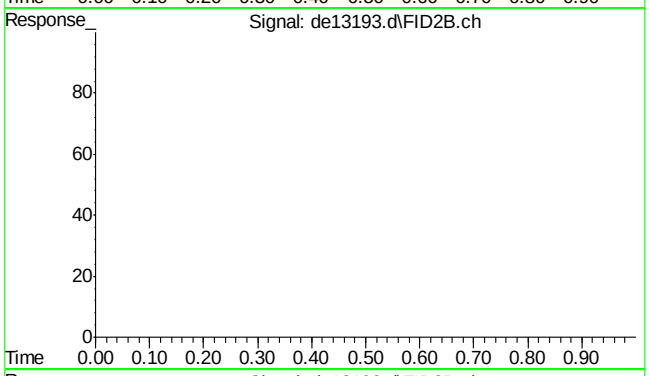
9

SGS ACCUTEST MC45678



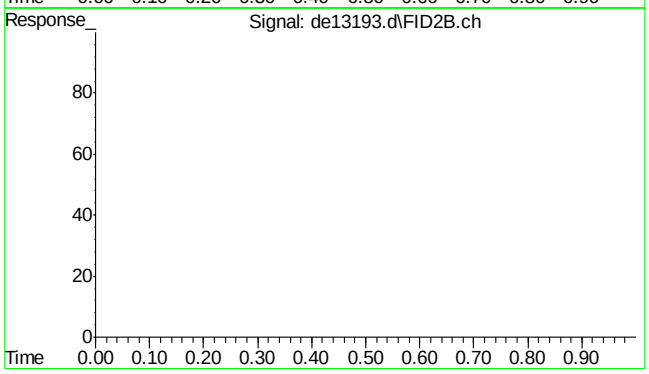
#43 bht

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

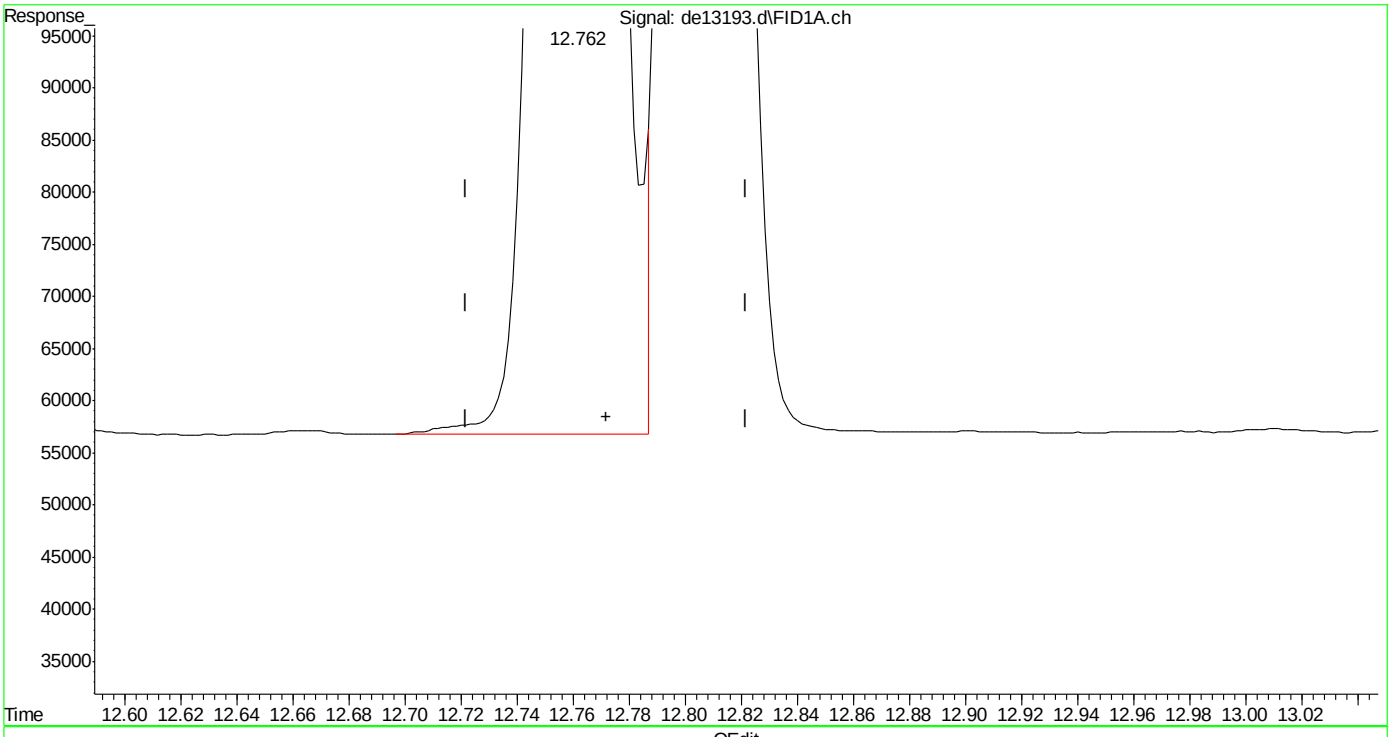
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

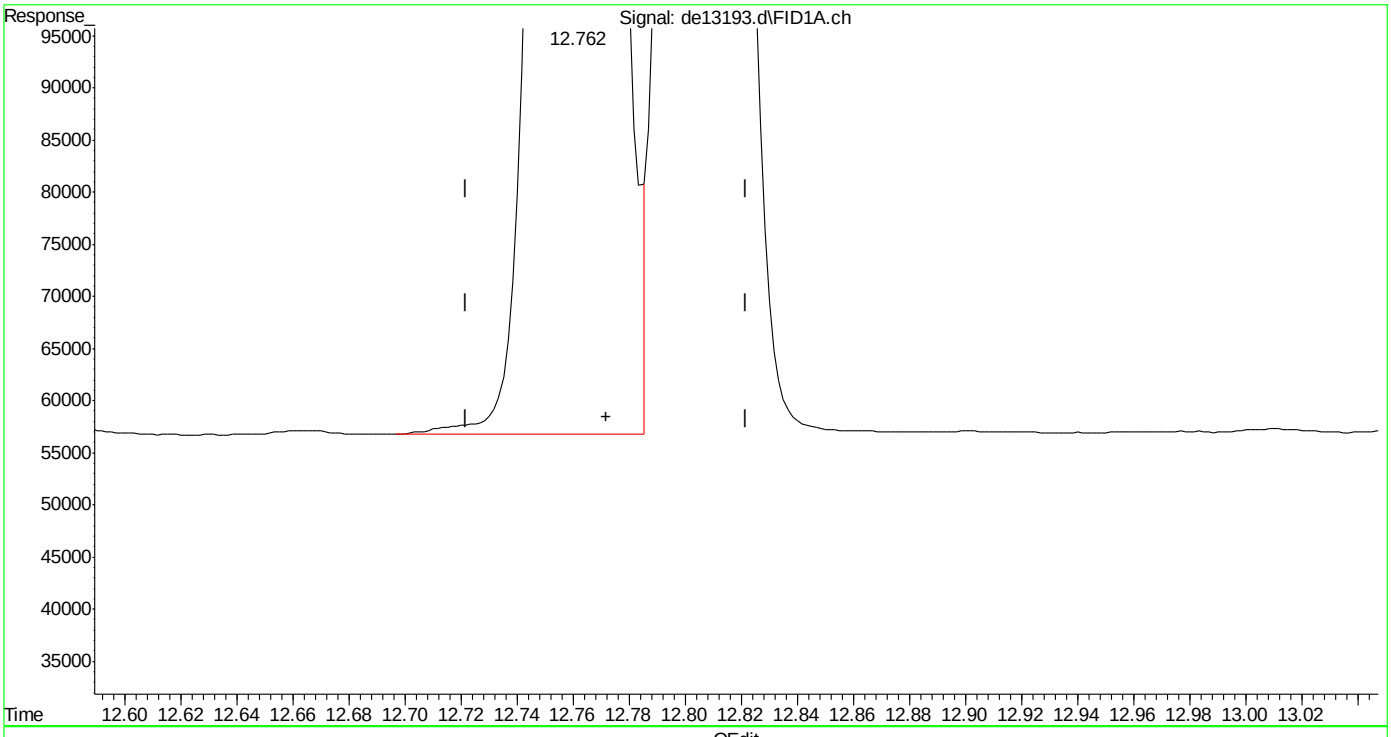
SGS ACCUTEST MC45678

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

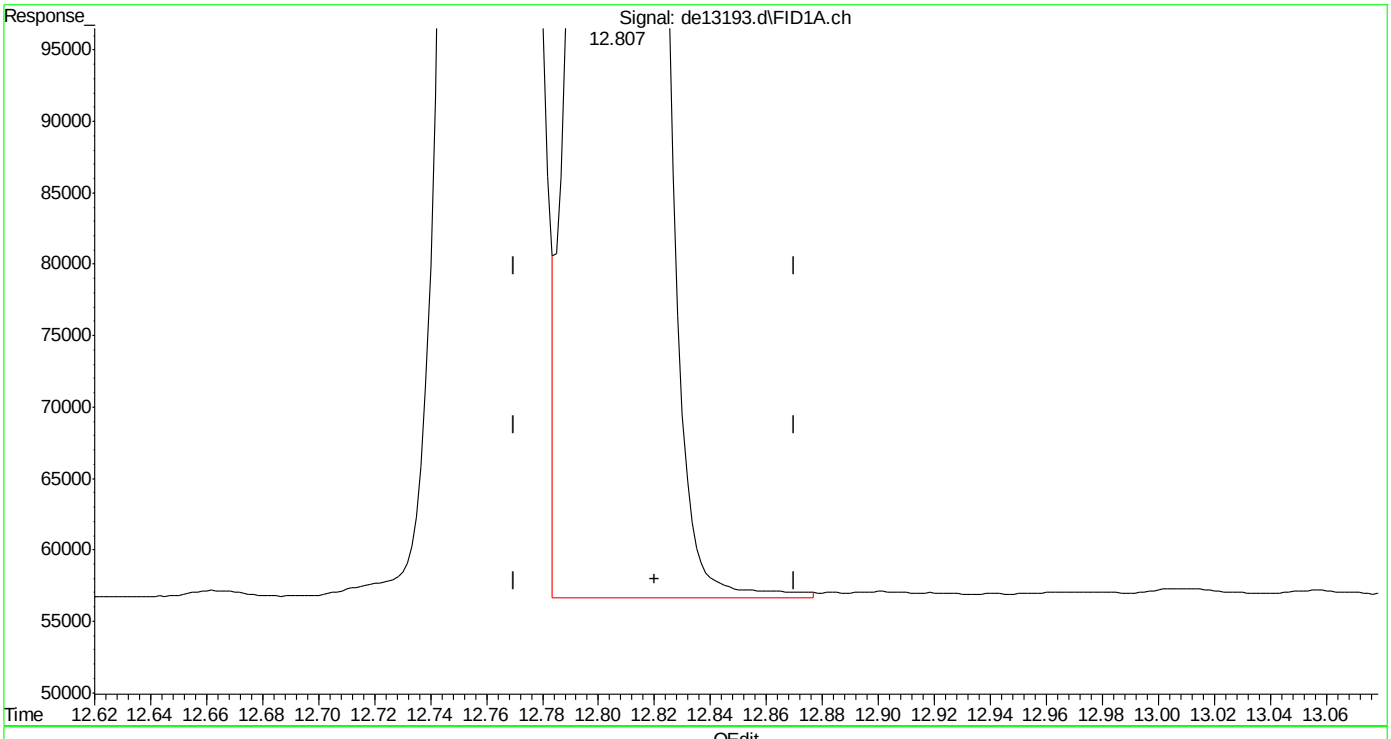
SGS ACCUTEST MC45678

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

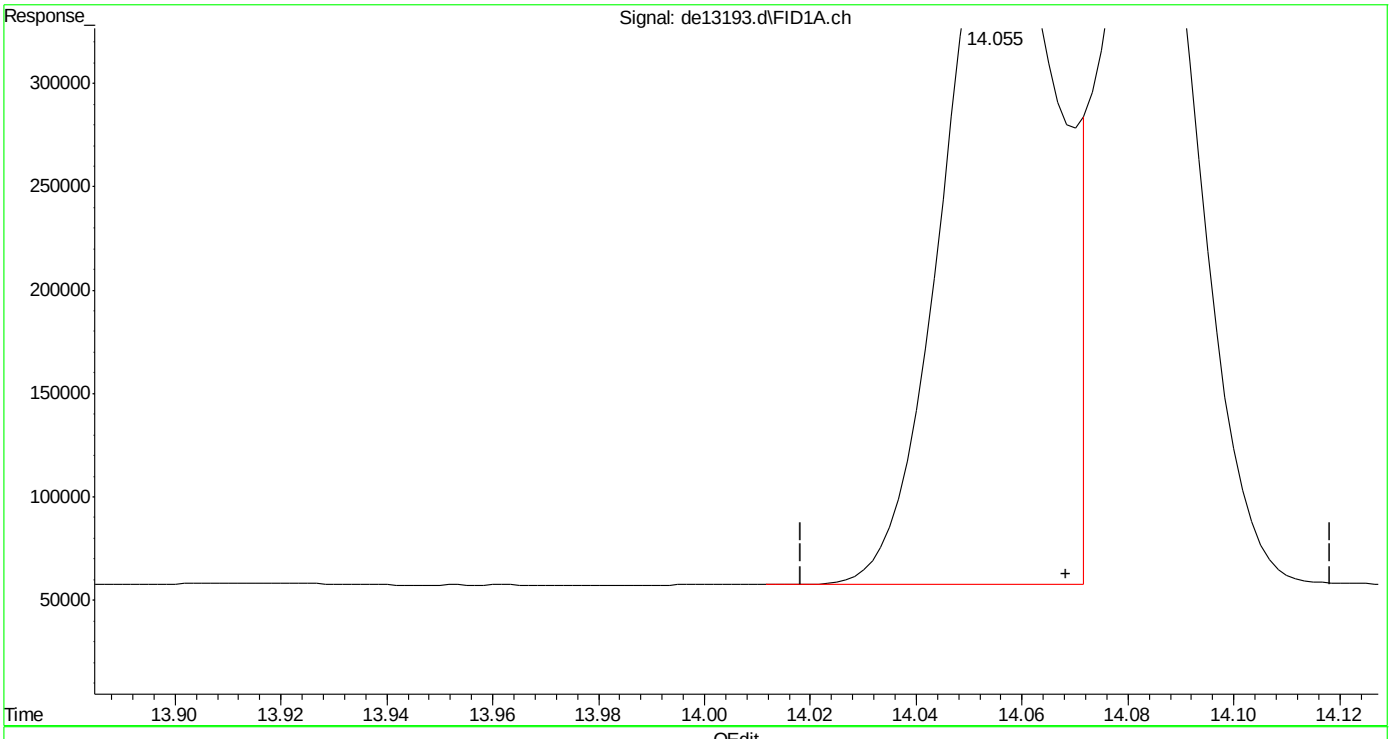
SGS ACCUTEST MC45678

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

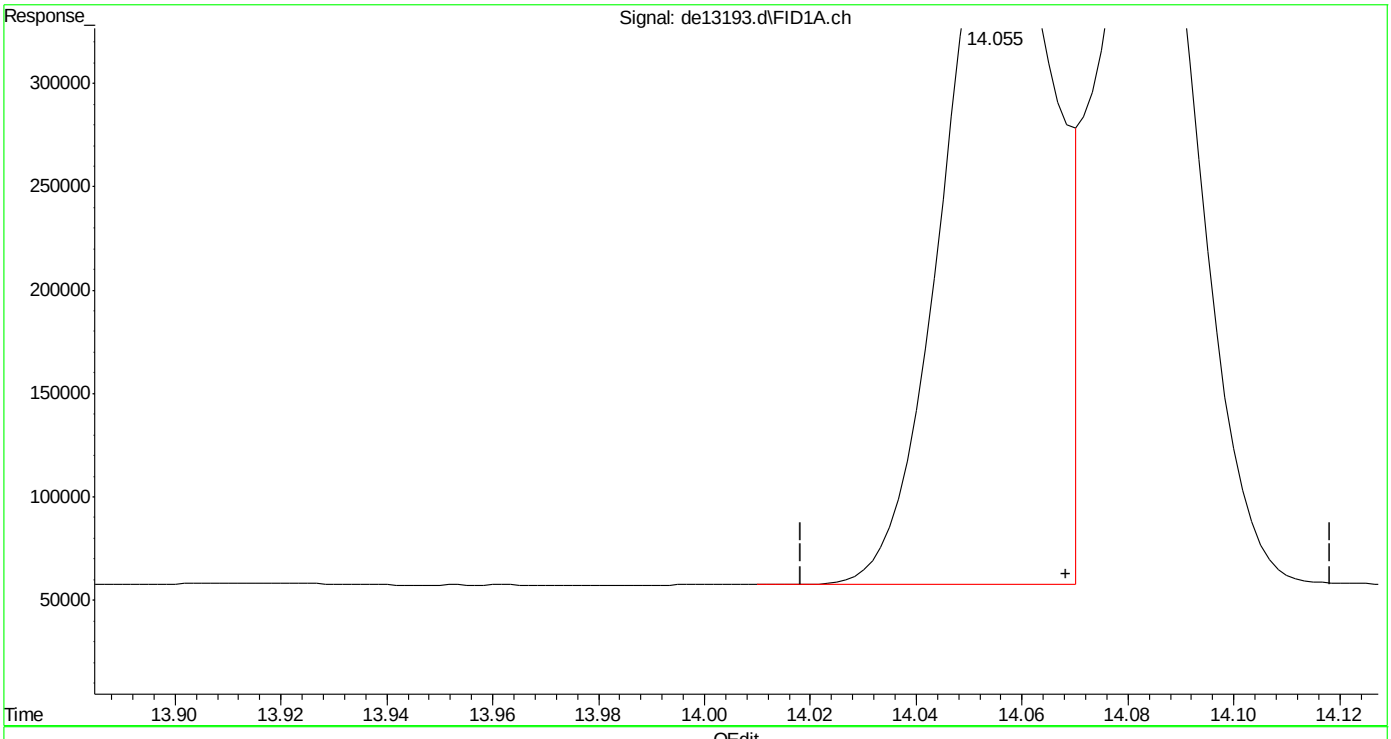
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.055min 4.931 µg/ml m
response 499942

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:57 2016

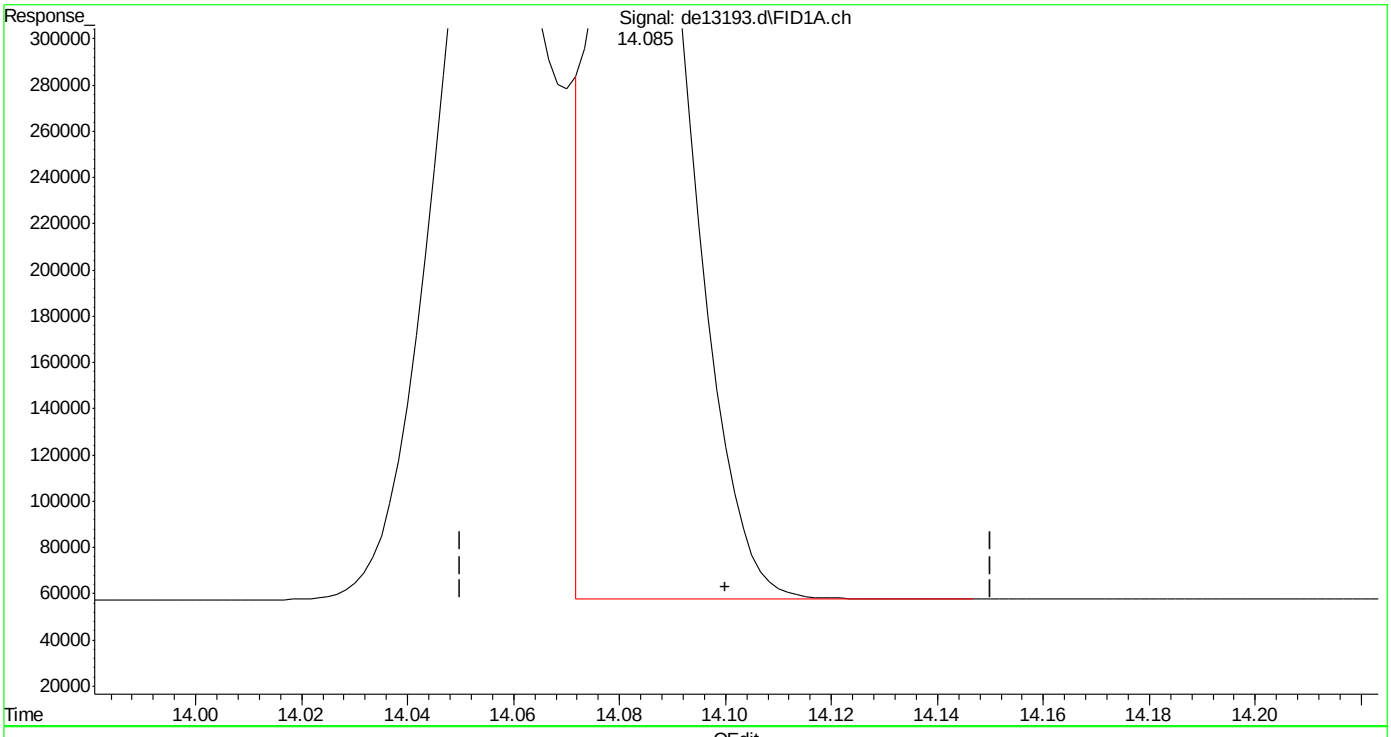
SGS ACCUTEST MC45678

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

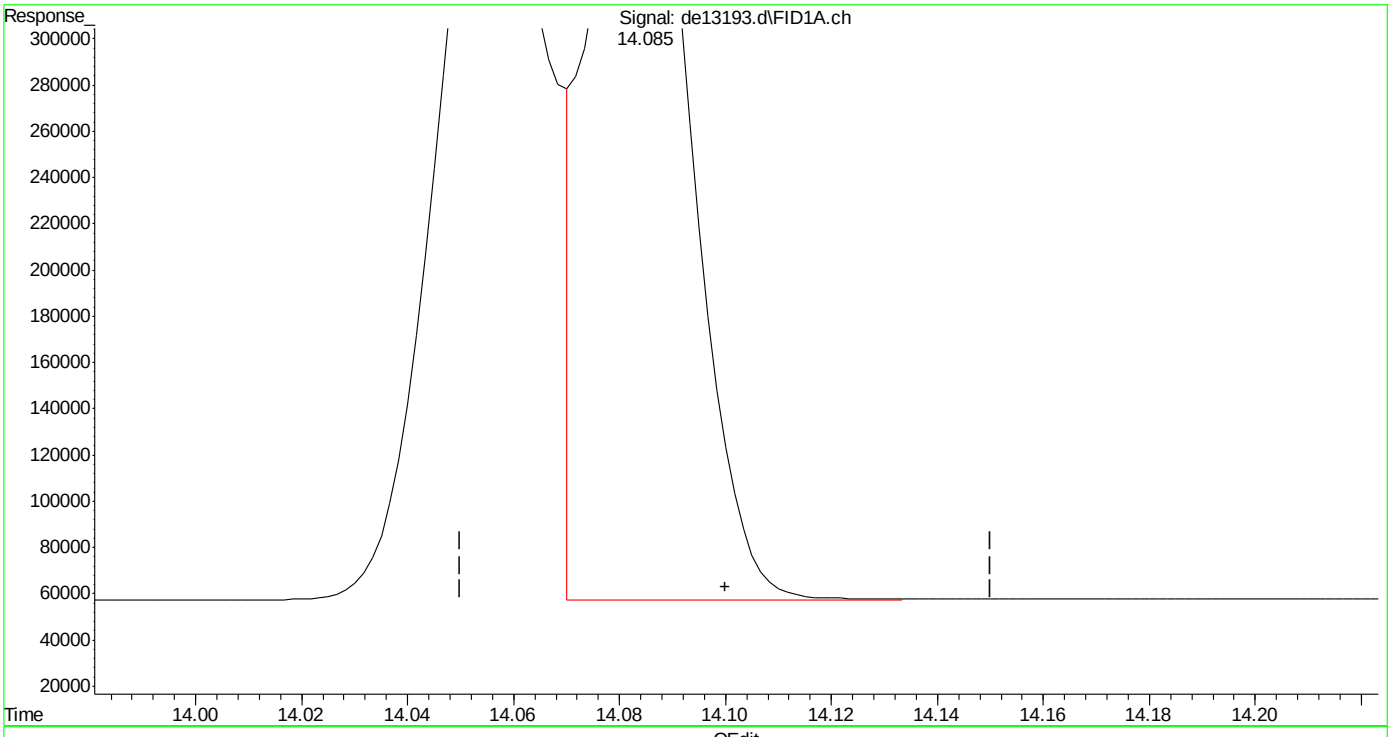
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.085min 4.875 µg/ml m
response 474469

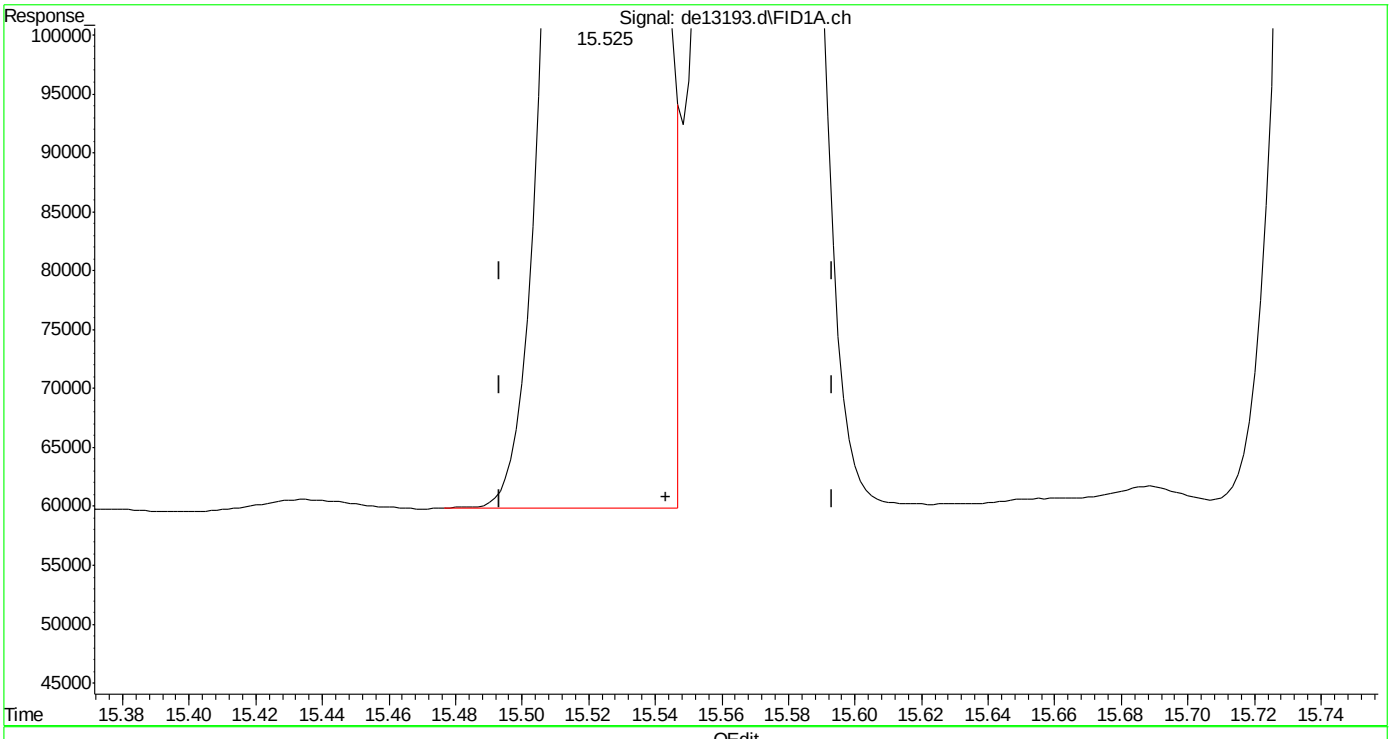
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.525min 4.785 µg/ml
response 468557

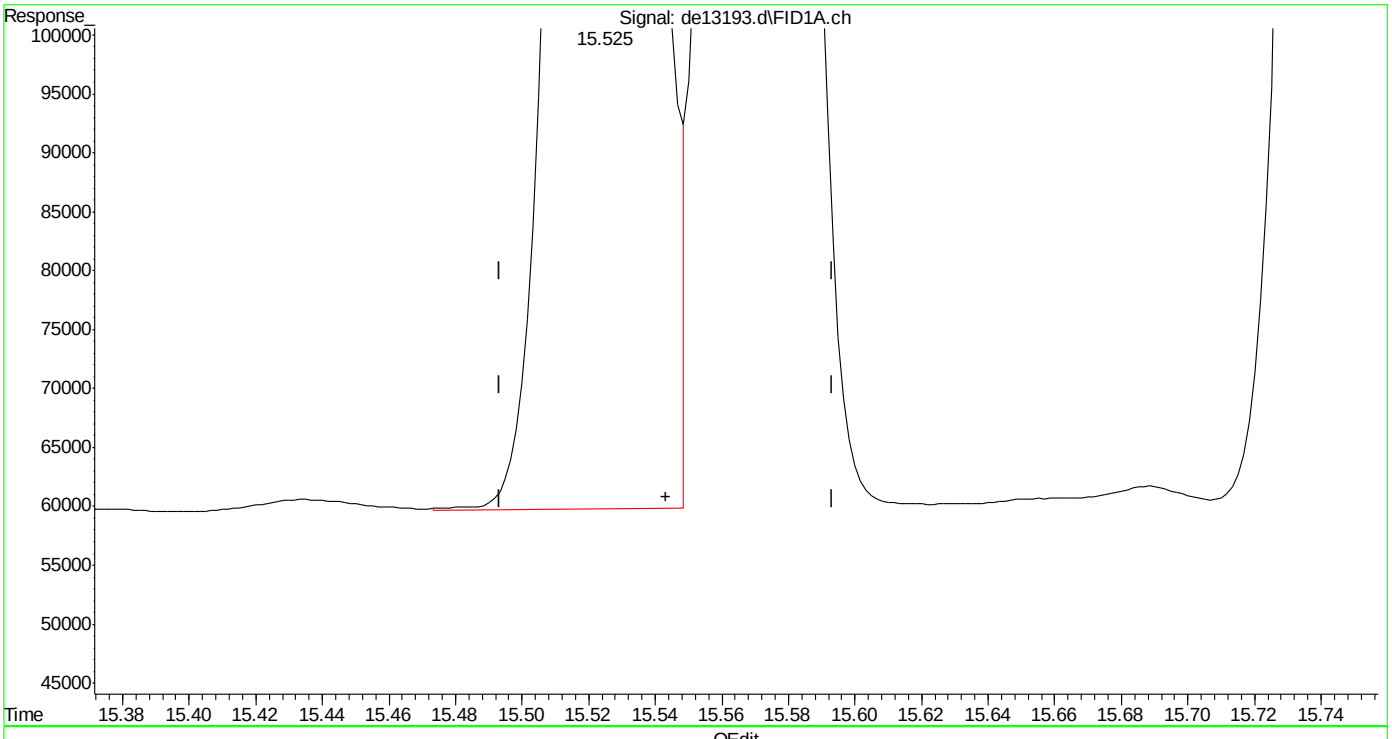
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:19 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.525min 4.822 µg/ml m
response 472235

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:45 2016

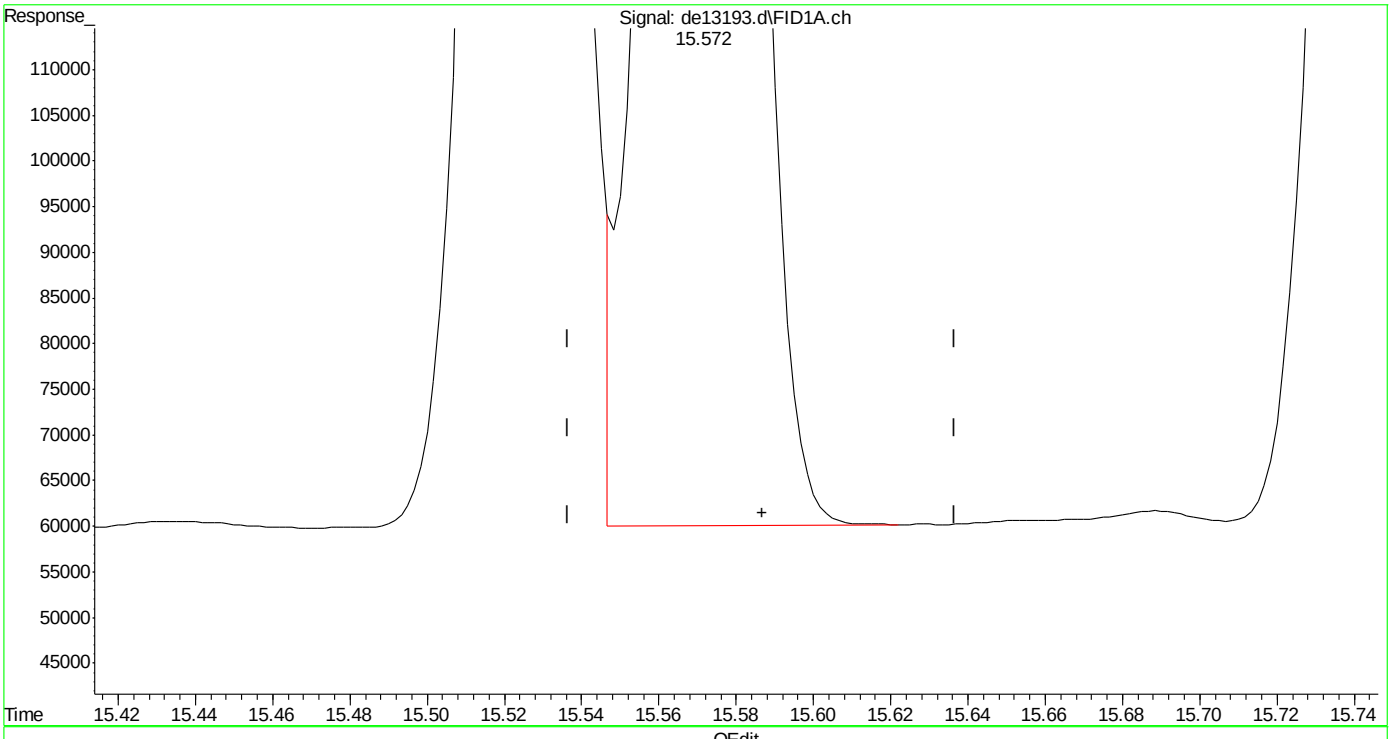
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.572min 5.000 µg/ml
response 468978

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:50 2016

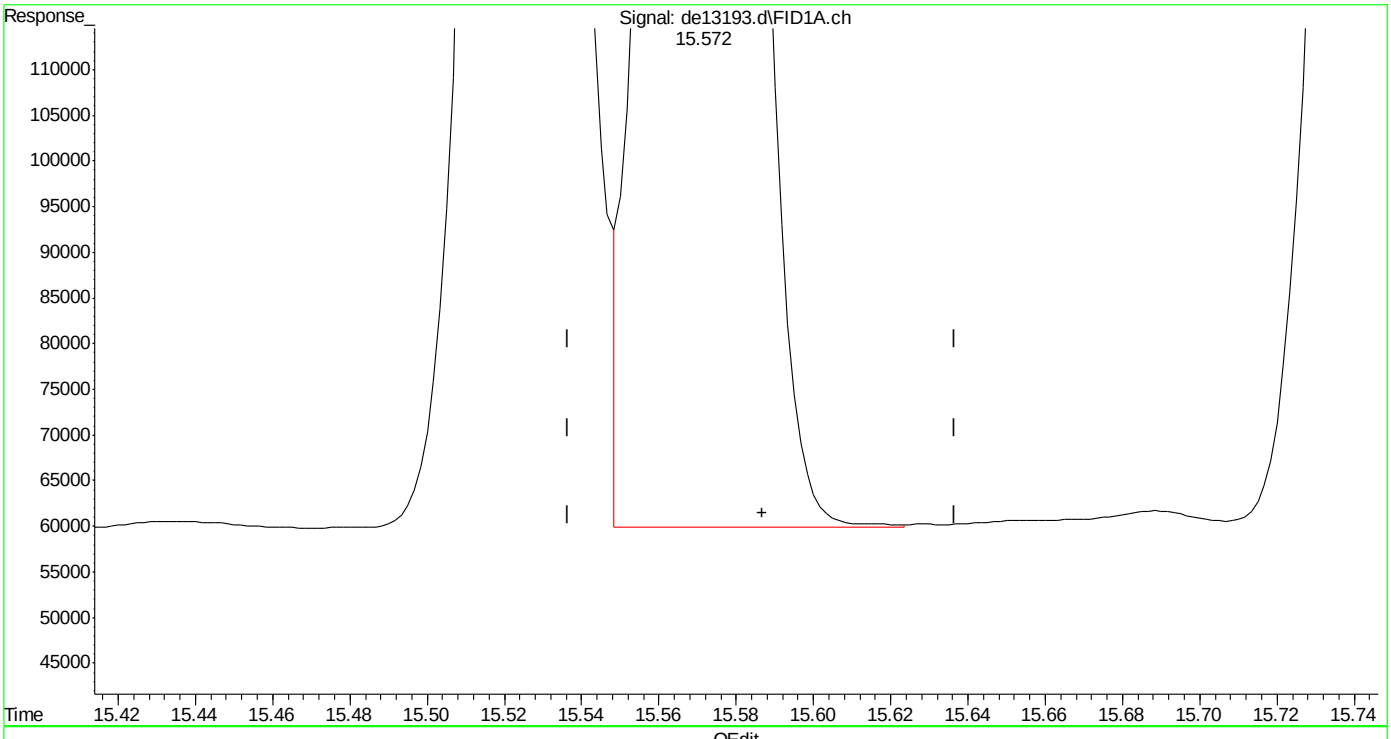
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.572min 4.975 µg/ml m
response 466623

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:45:09 2016

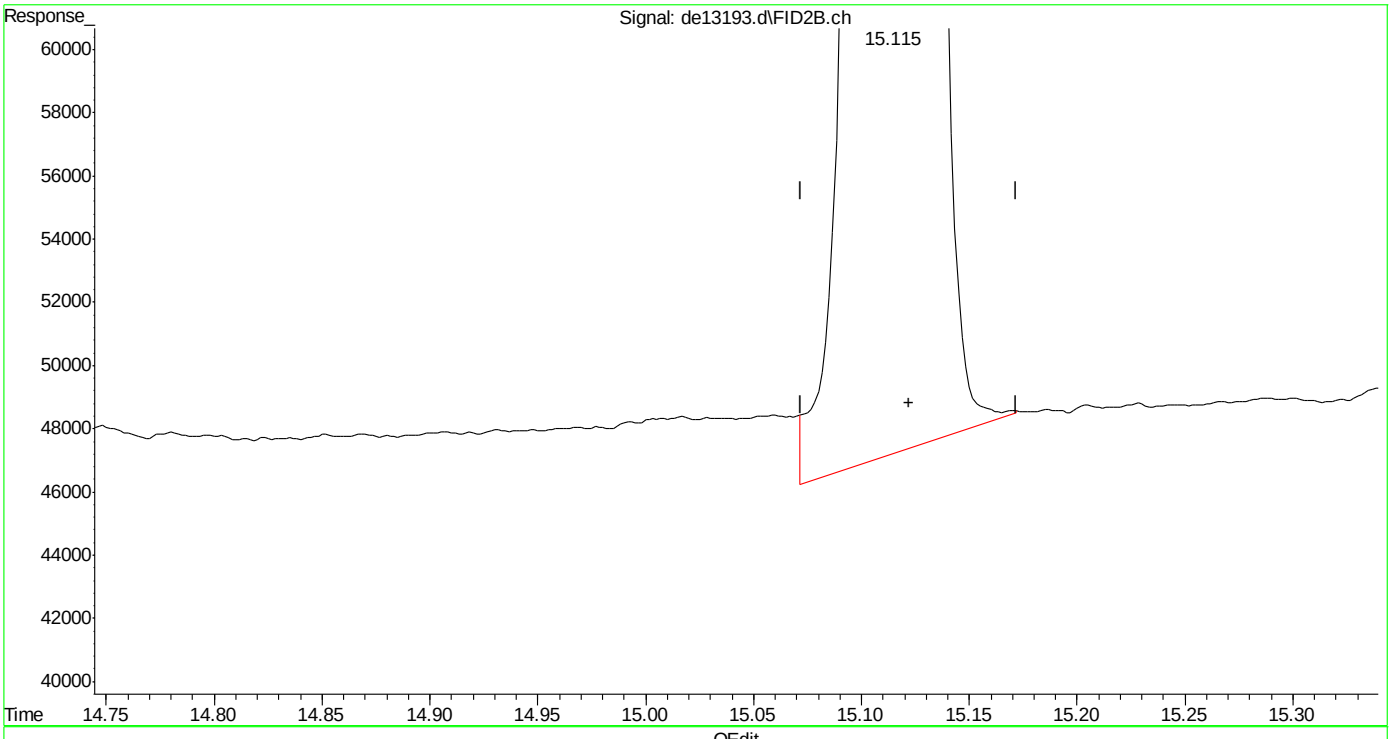
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.122min 5.120 µg/ml
response 351498

(+) = Expected Retention Time

SGS ACCUTEST MC45678

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

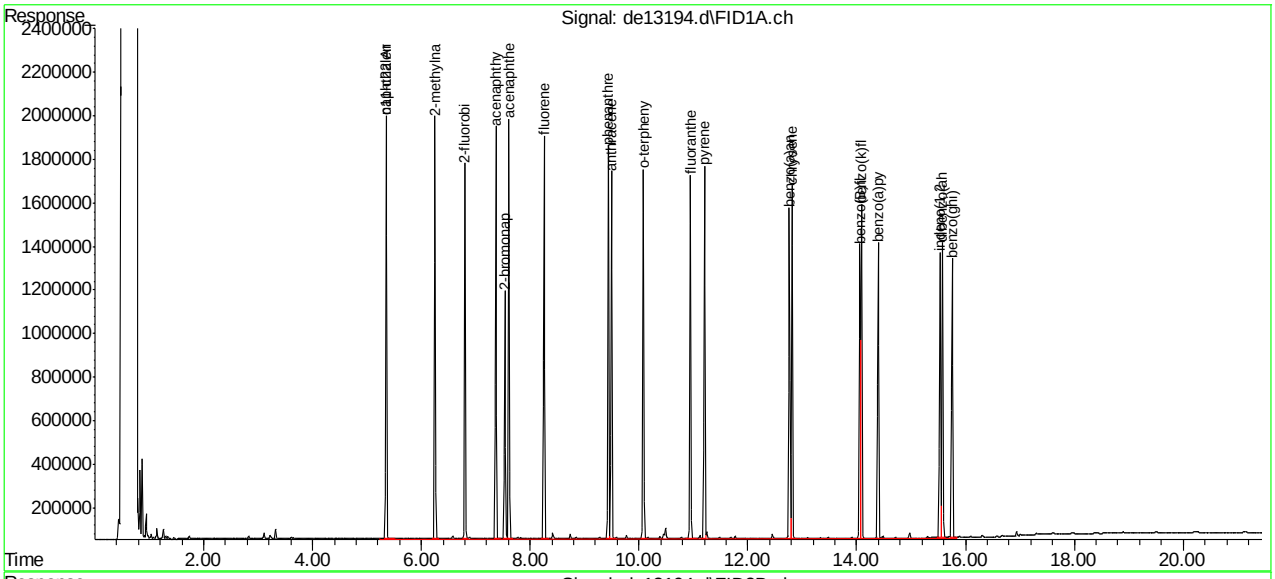
(f)=RT Delta > 1/2 Window (m)=manual int.

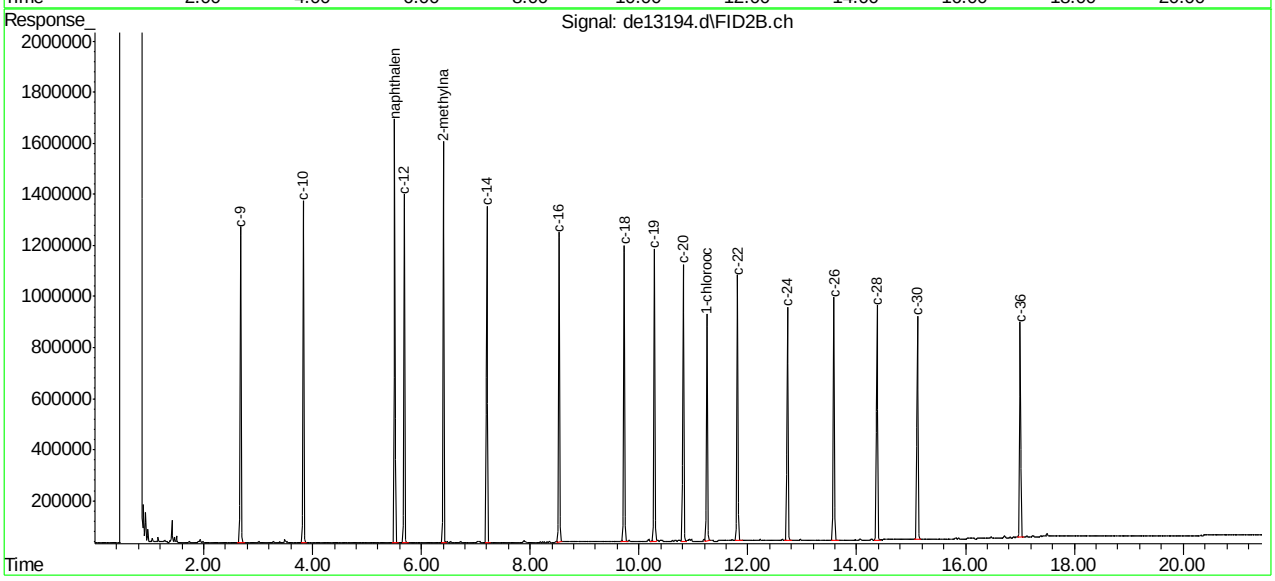
Quantitation Report (QT Reviewed)

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 :





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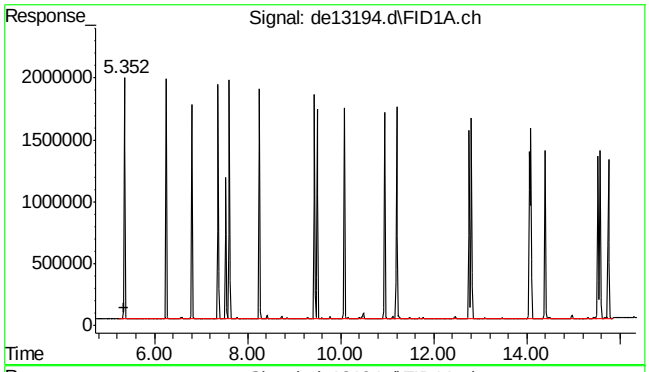
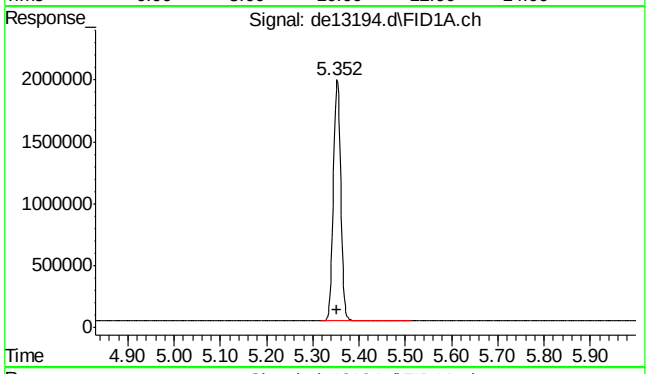


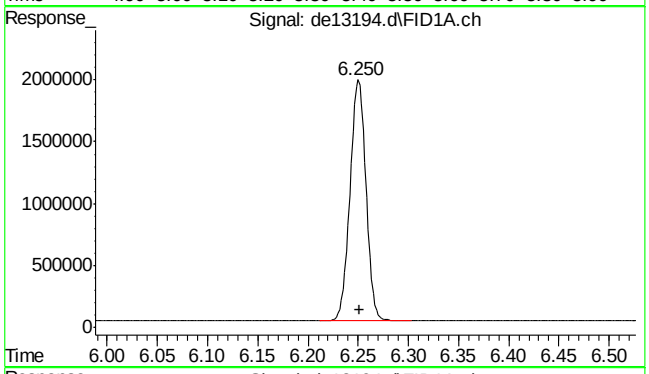
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



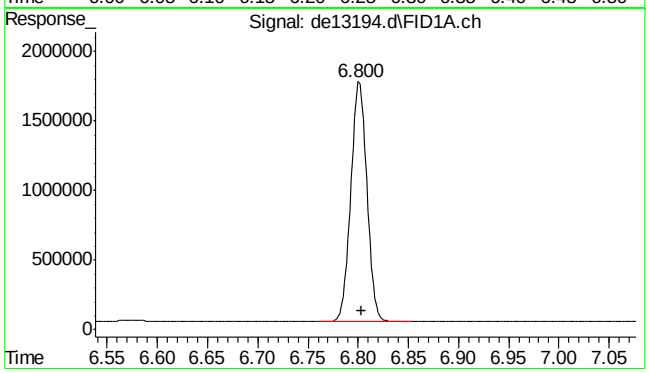
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



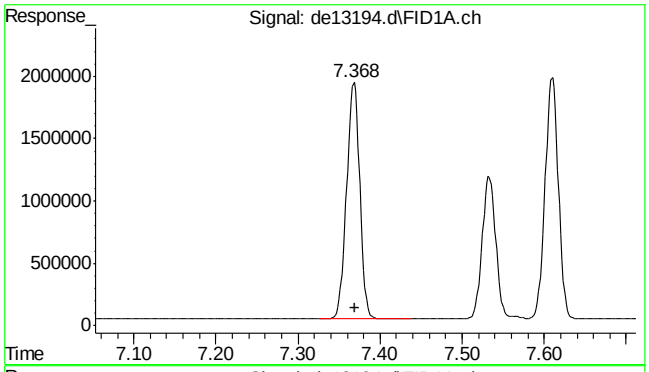
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



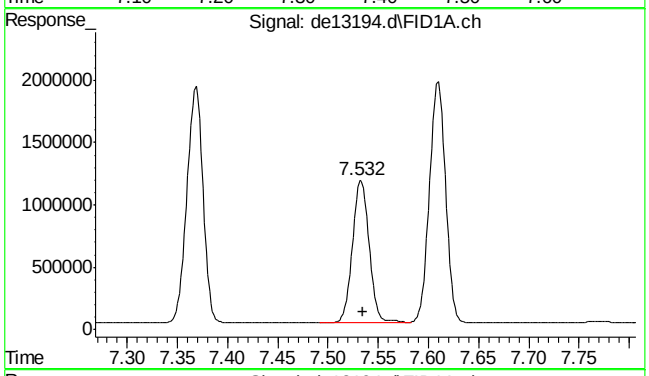
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml



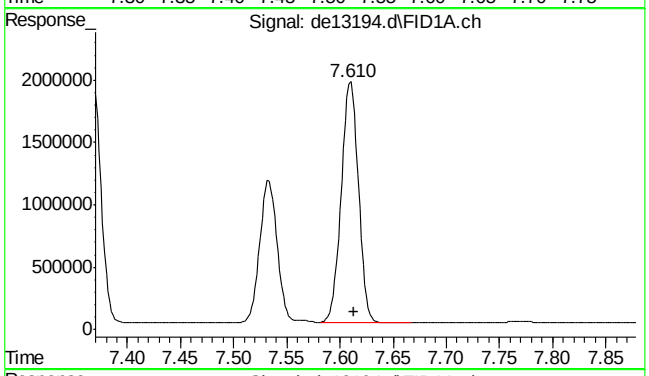
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



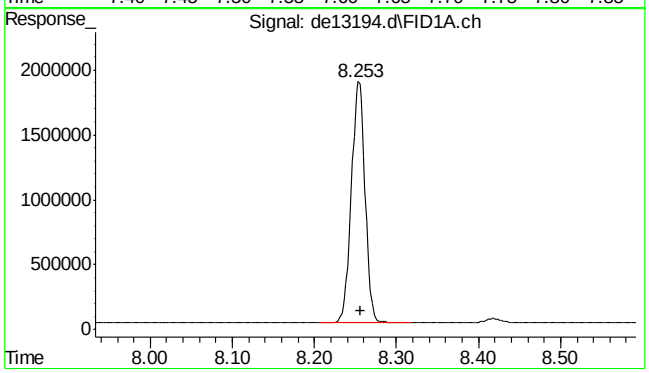
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 1318220
Conc: 20.45 µg/ml



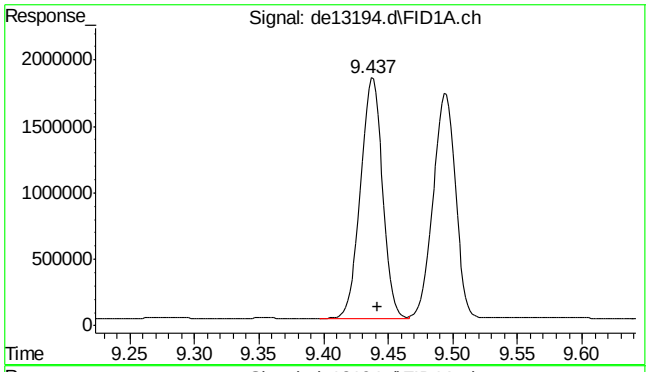
#7 acenaphthene

R.T.: 7.610 min
Delta R.T.: -0.003 min
Response: 2170607
Conc: 20.45 µg/ml



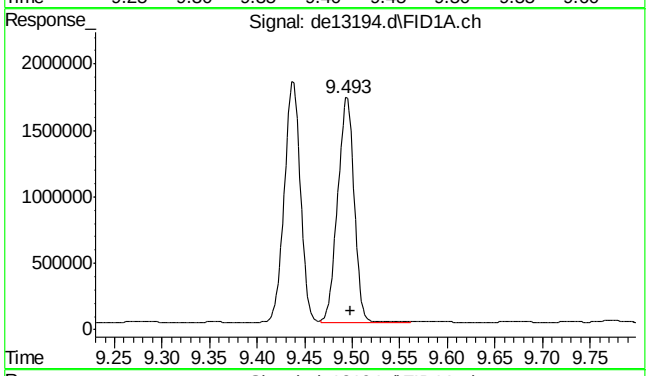
#8 fluorene

R.T.: 8.253 min
Delta R.T.: -0.003 min
Response: 2130652
Conc: 20.46 µg/ml



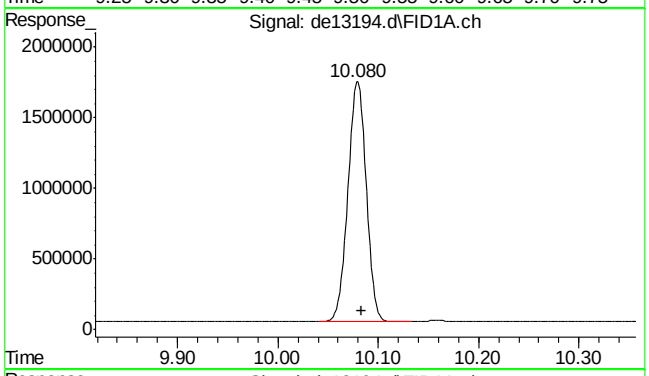
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



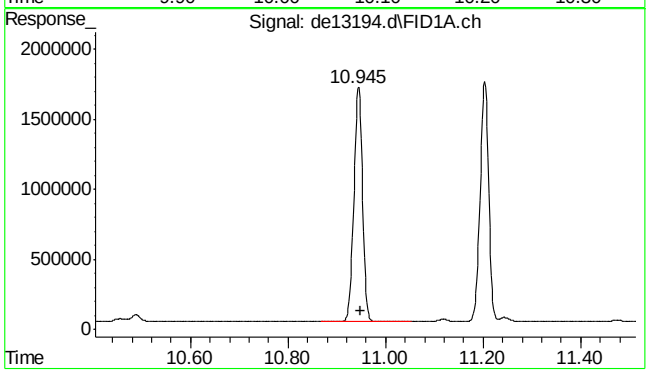
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



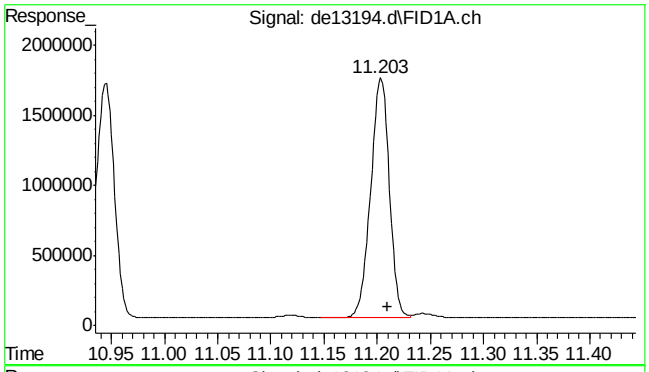
#11 o-terphenyl

R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



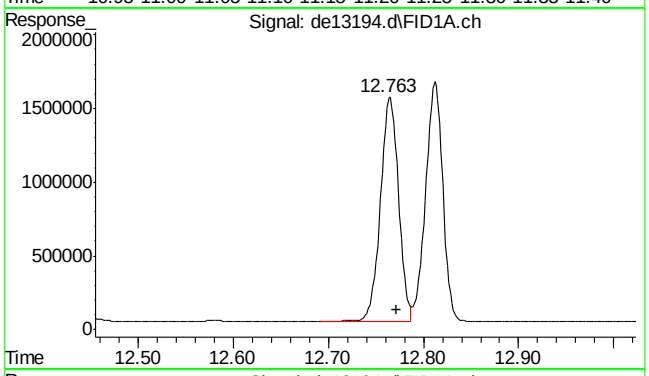
#12 fluoranthene

R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml



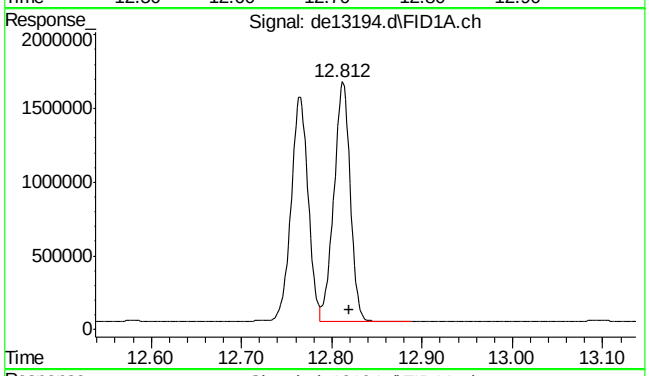
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



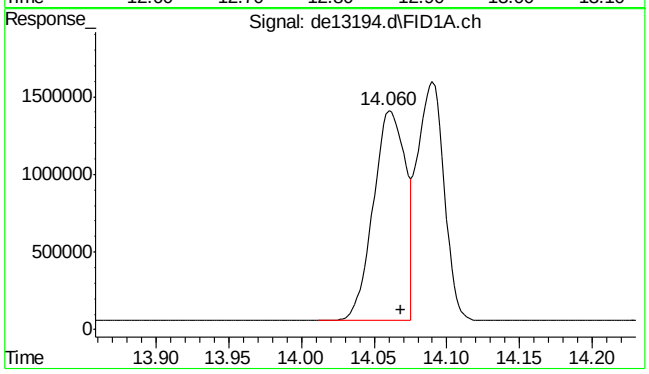
#14 benzo(a)anthracene

R.T.: 12.763 min
Delta R.T.: -0.008 min
Response: 2002764
Conc: 20.46 µg/ml



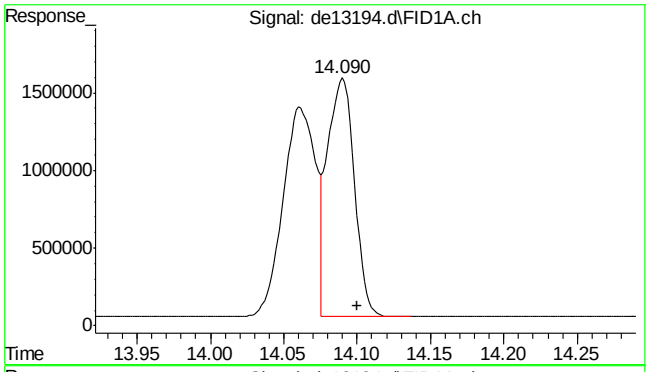
#15 chrysene

R.T.: 12.812 min
Delta R.T.: -0.008 min
Response: 2022589
Conc: 20.50 µg/ml



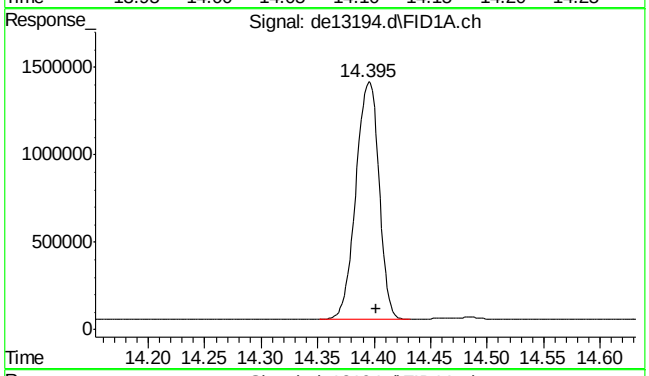
#16 benzo(B)fluoranthene

R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m



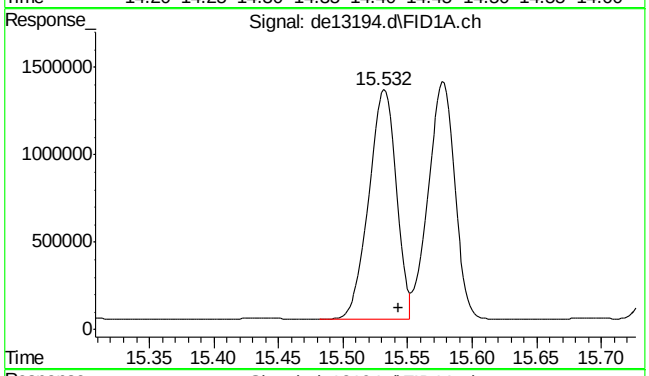
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



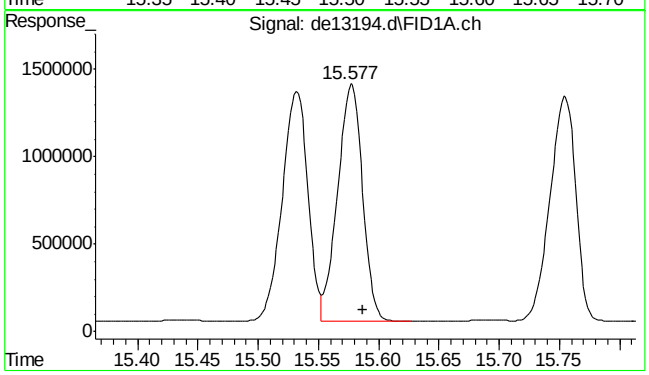
#18 benzo(a)pyrene

R.T.: 14.395 min
Delta R.T.: -0.007 min
Response: 1927552
Conc: 20.33 µg/ml



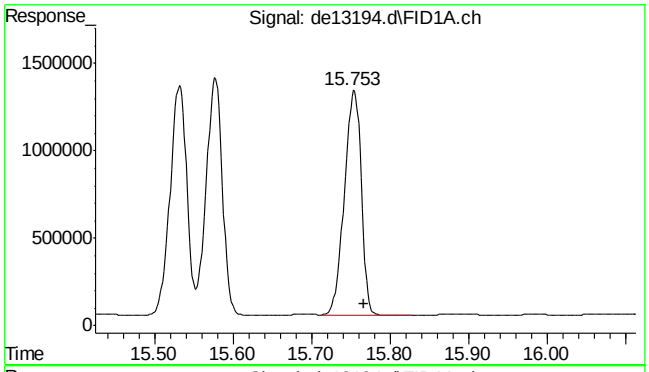
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.532 min
Delta R.T.: -0.012 min
Response: 1948257
Conc: 19.99 µg/ml



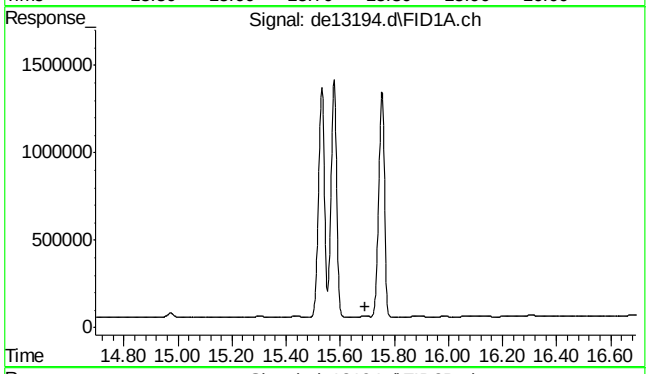
#20 dibenzo(ah)anthracene

R.T.: 15.577 min
Delta R.T.: -0.010 min
Response: 1933263
Conc: 20.73 µg/ml



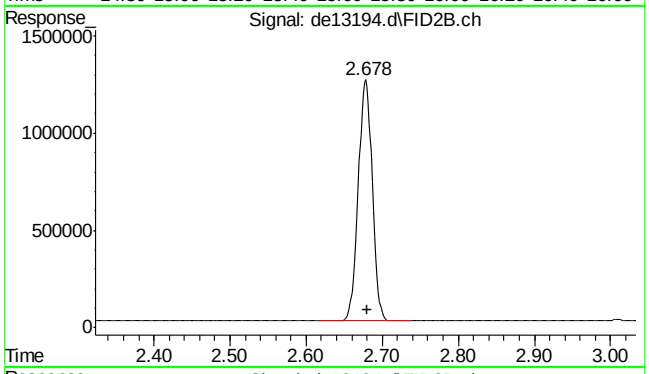
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



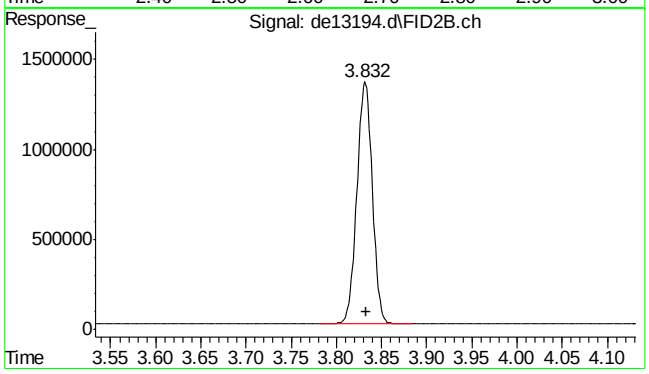
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 1587594
Conc: 20.95 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.5.4

9

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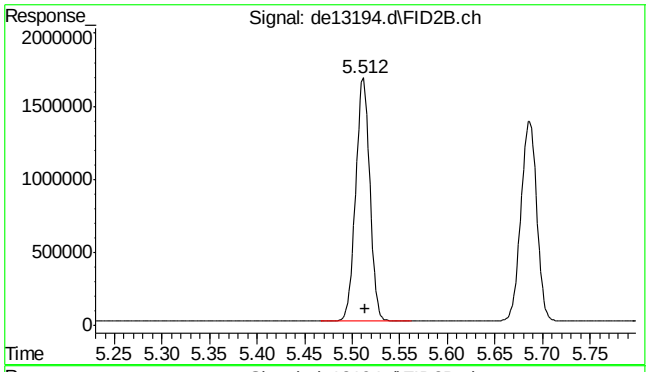
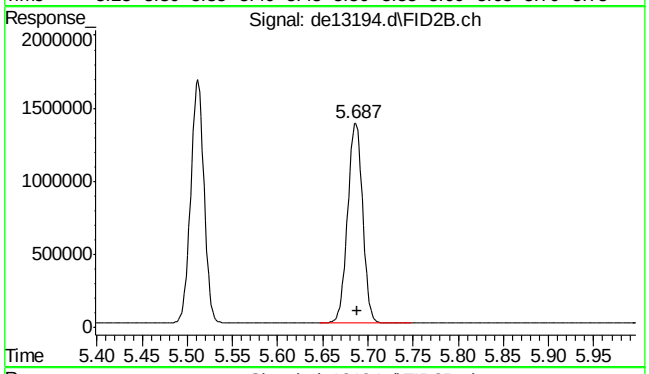


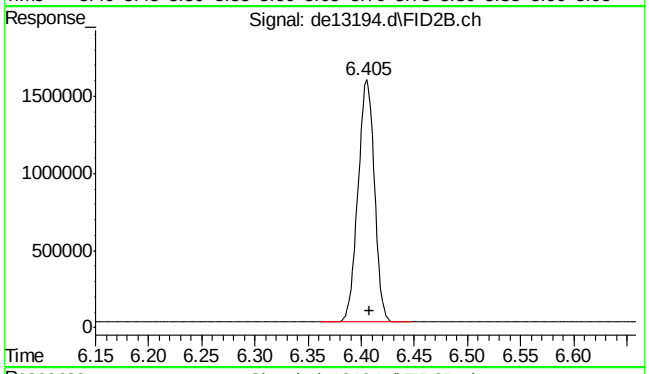
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



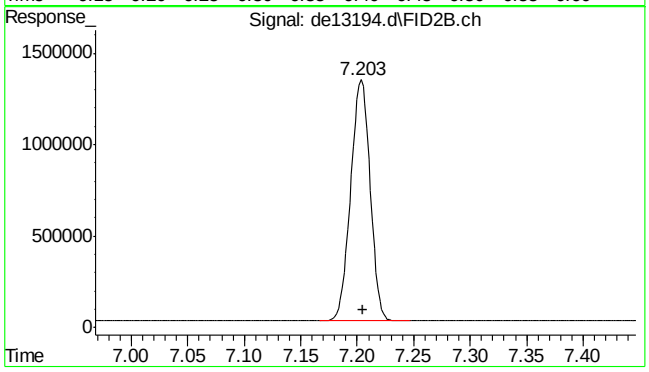
#28 c-12

R.T.: 5.687 min
Delta R.T.: -0.002 min
Response: 1581613
Conc: 20.81 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.405 min
Delta R.T.: -0.003 min
Response: 1698114
Conc: 20.83 µg/ml



#30 c-14

R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml

9.5.4

9

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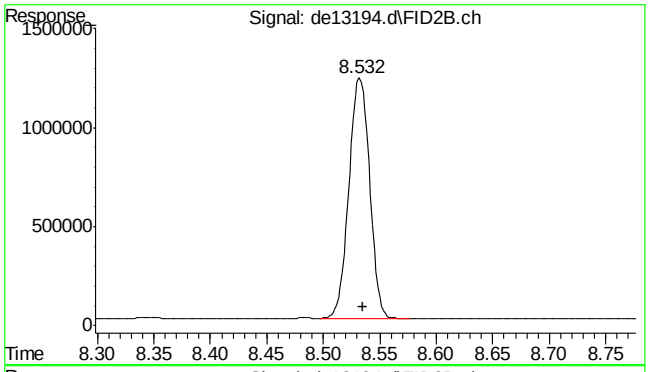
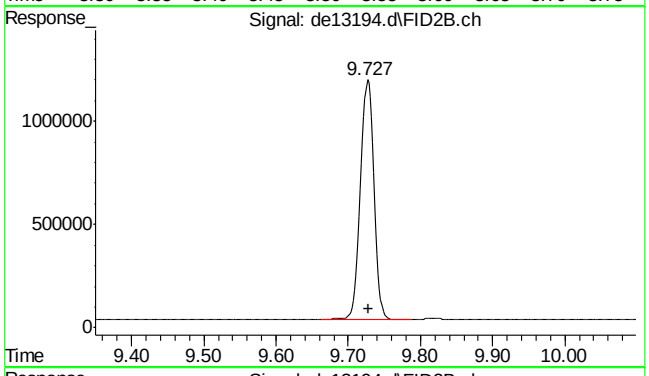


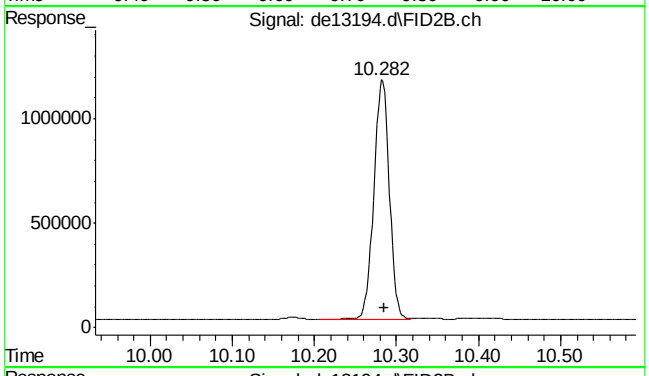
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



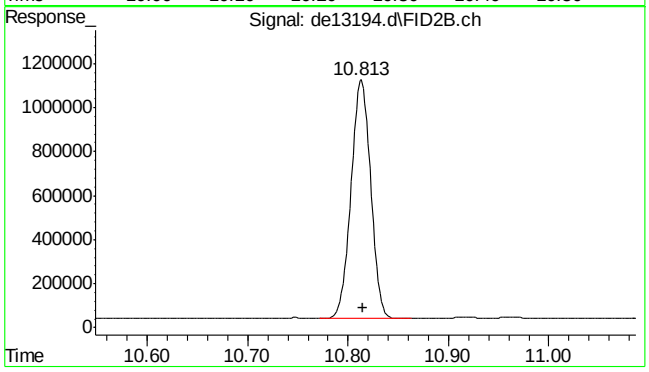
#32 c-18

R.T.: 9.727 min
Delta R.T.: -0.002 min
Response: 1515877
Conc: 20.26 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 1500139
Conc: 20.56 µg/ml



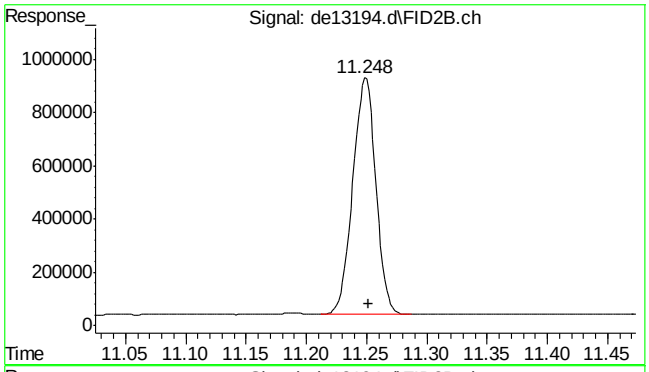
#34 c-20

R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

9.5.4

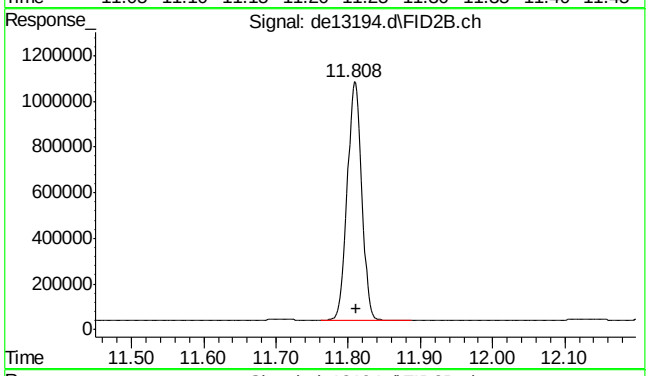
9

SGS ACCUTEST MC45678



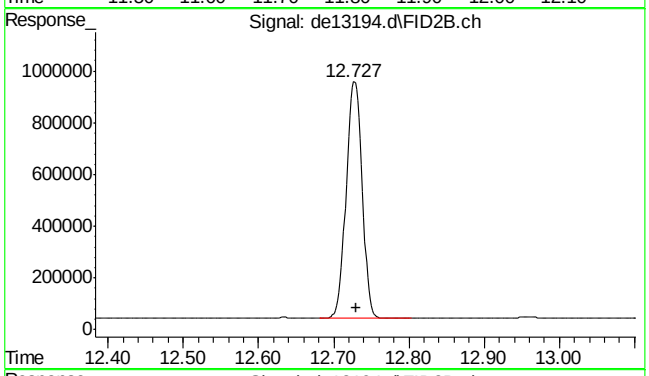
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



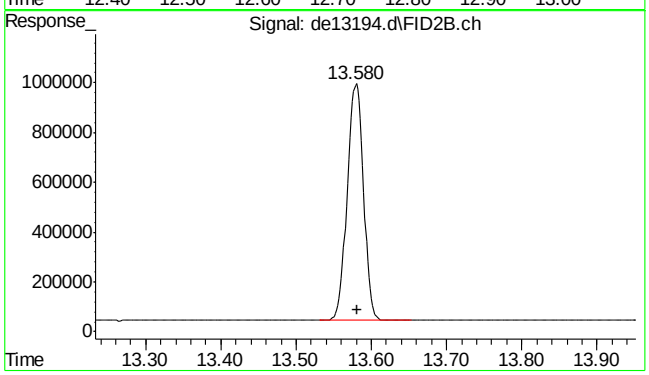
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 1451343
Conc: 20.60 µg/ml



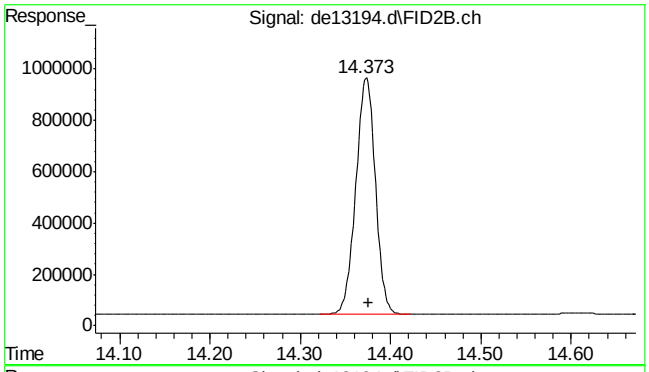
#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 1351453
Conc: 20.22 µg/ml



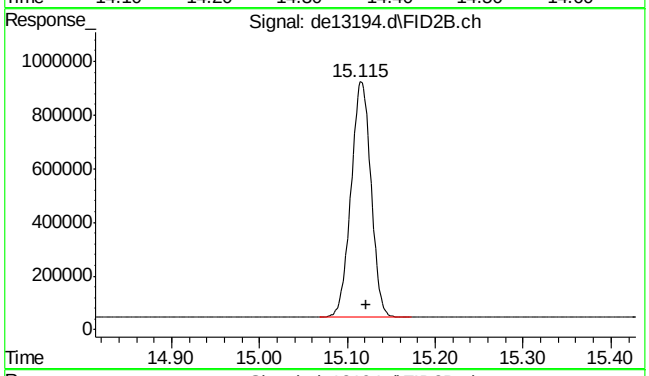
#38 c-26

R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml



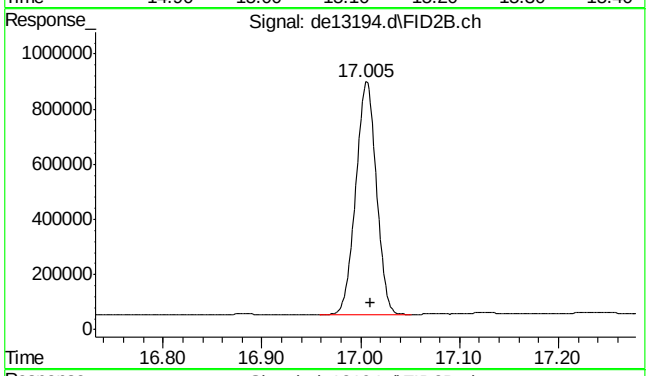
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



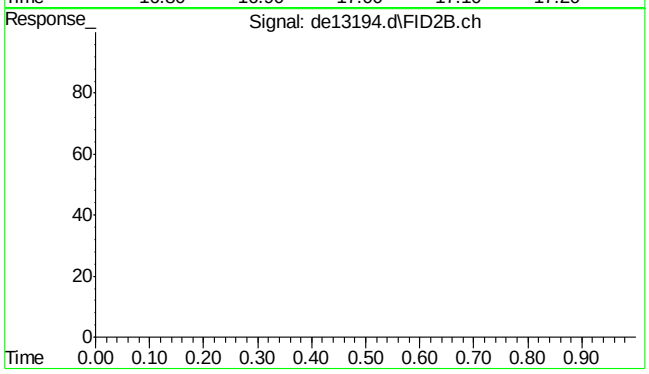
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 1377048
Conc: 20.03 µg/ml m



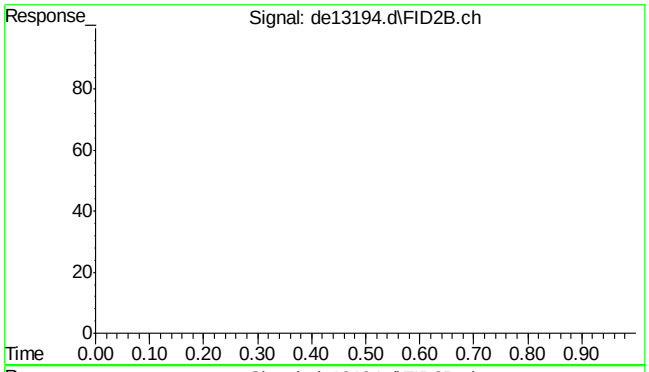
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 1222680
Conc: 20.01 µg/ml m



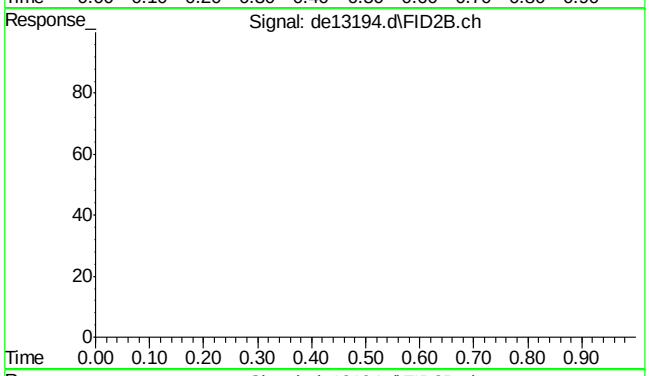
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



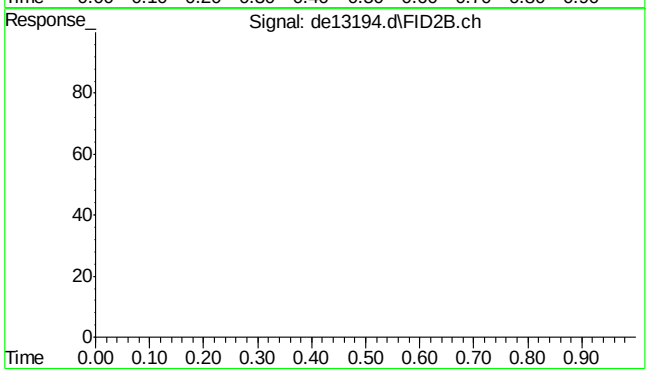
#43 bht

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

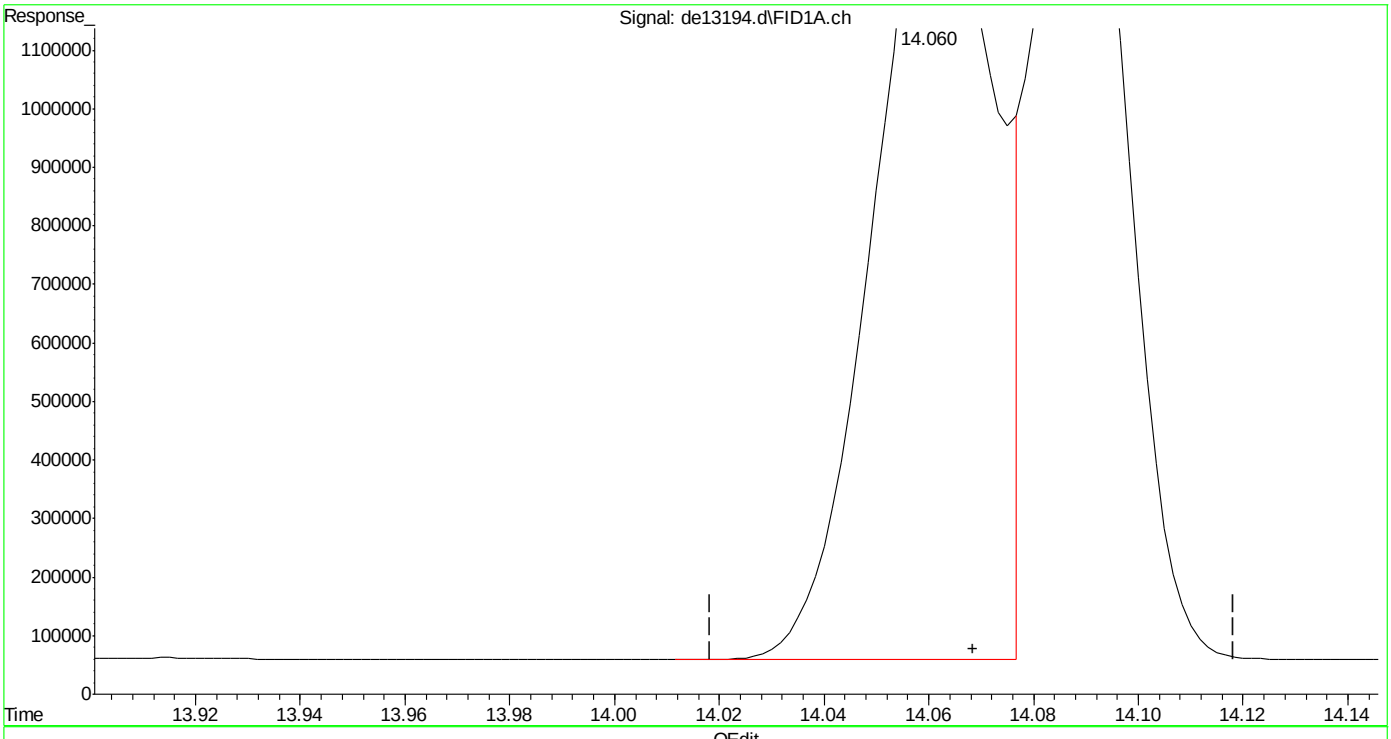
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

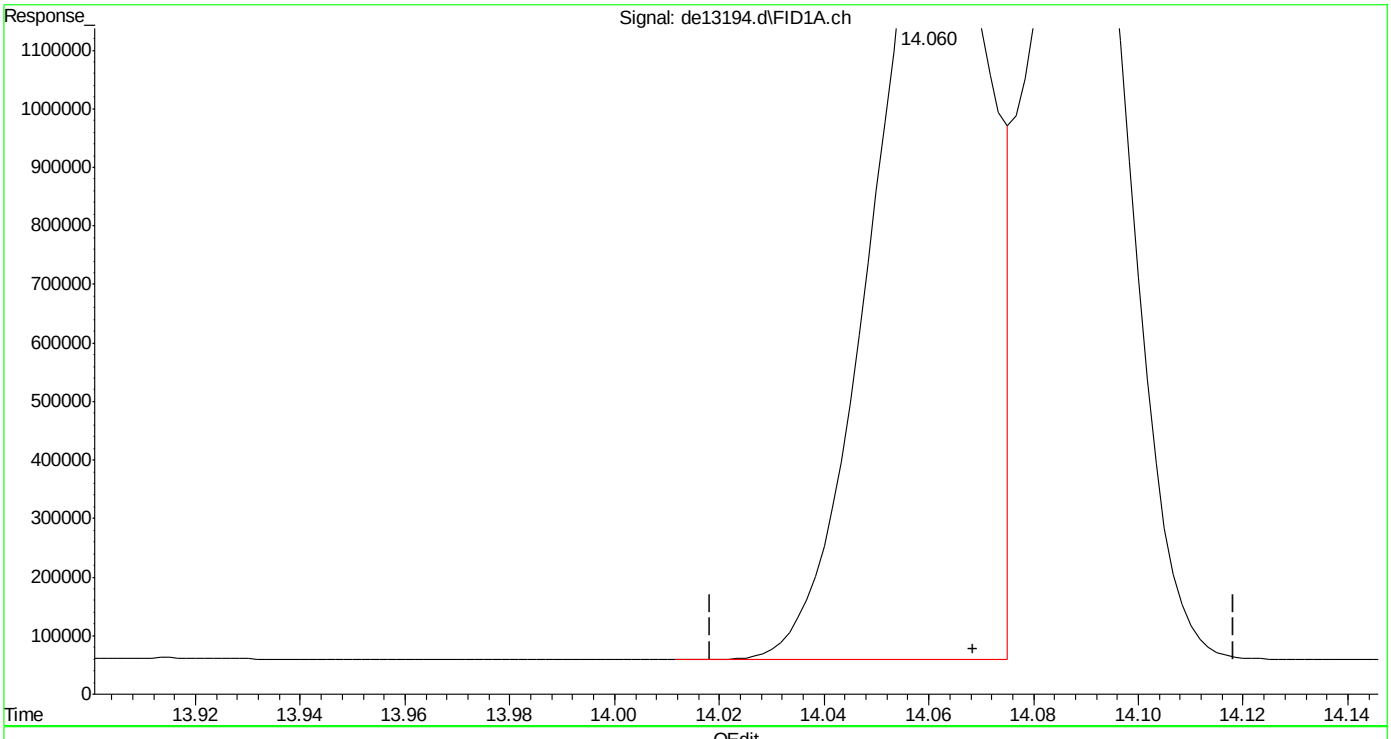
(+) = Expected Retention Time

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

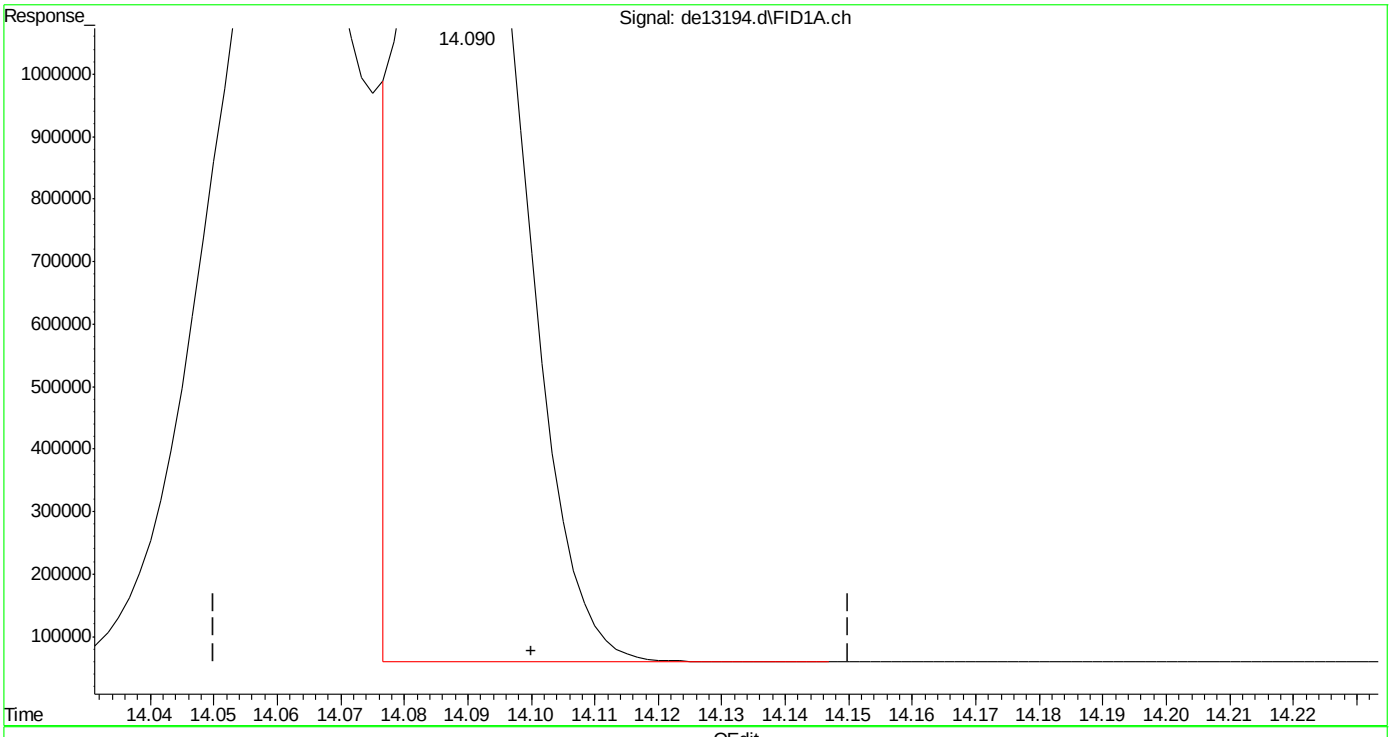
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.090min 19.228 µg/ml
response 1860456

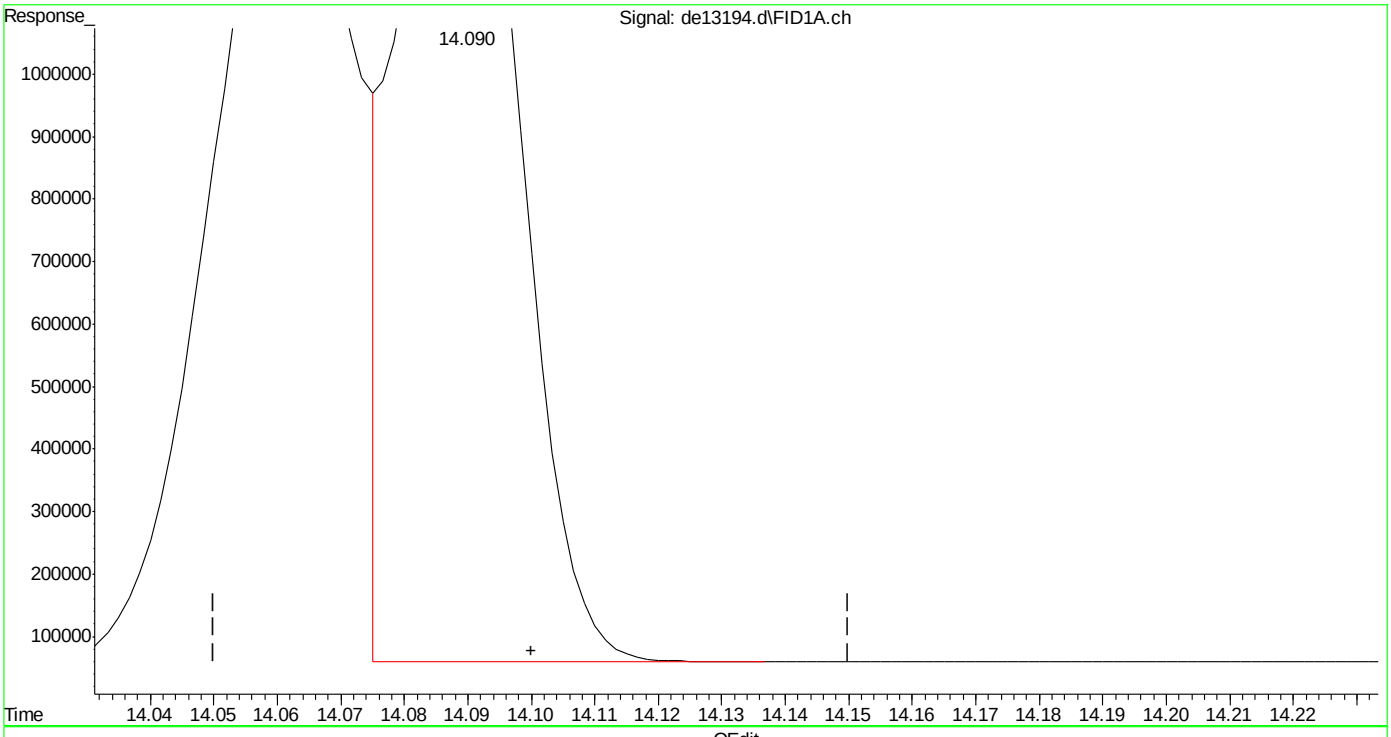
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.090min 20.187 µg/ml m
response 1953249

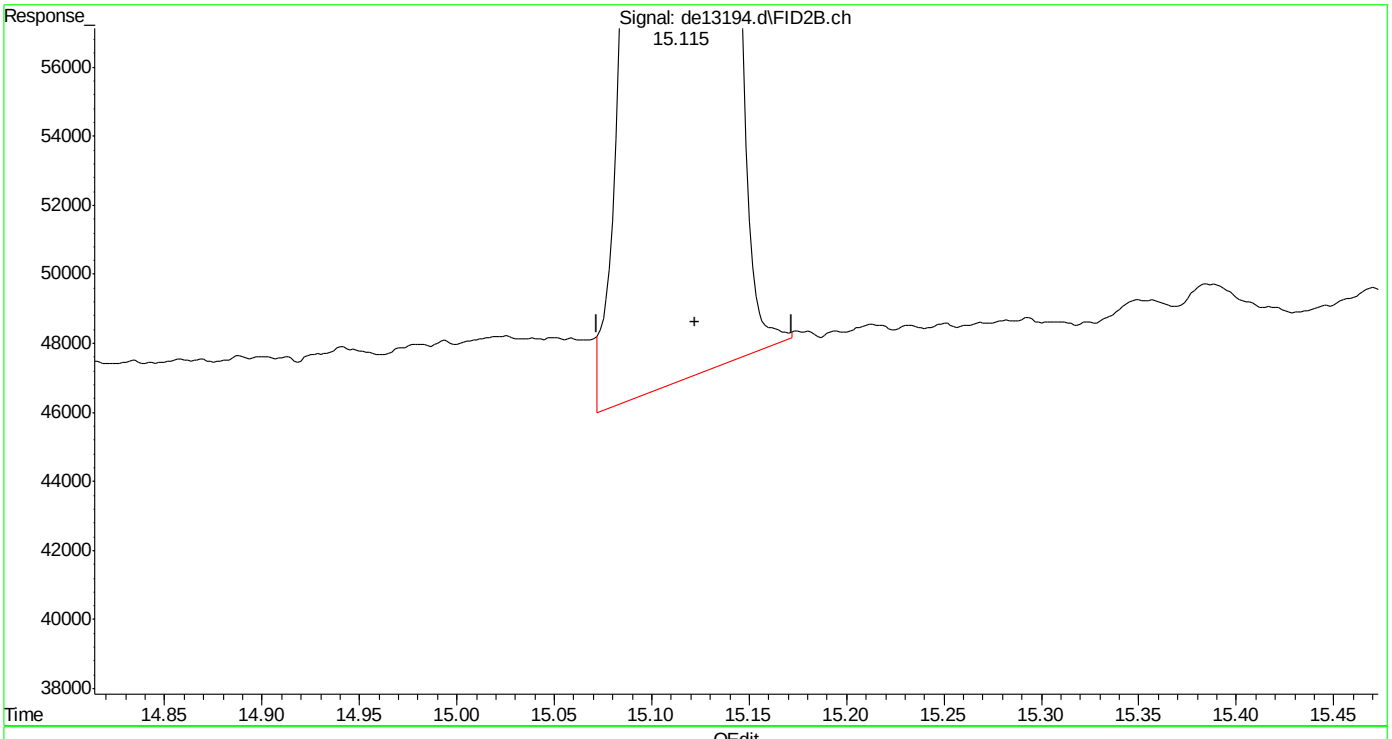
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.122min 20.114 µg/ml
response 1382917

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:51:11 2016

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Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.803	4755859	50.970 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 254.85%#		
6) s 2-bromonaphthalene	7.535	3250284	51.239 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 256.19%#		
11) s o-terphenyl	10.083	5257542	50.987 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 254.94%#		
35) s 1-chlorooctadecane	11.252	2679754	47.467 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 237.33%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	87424928	52.817 µg/mlm
2) naphthalene	5.353	5345223	51.089 µg/ml
3) 2-methylnaphthalene	6.252	5287222	50.952 µg/ml
5) acenaphthylene	7.370	5189849	50.857 µg/ml
7) acenaphthene	7.613	5354326	51.245 µg/ml
8) fluorene	8.257	5242546	51.074 µg/ml
9) phenanthrene	9.442	5223164	50.912 µg/ml
10) anthracene	9.498	4970359	51.417 µg/ml
12) fluoranthene	10.948	5079973	50.440 µg/ml
13) pyrene	11.210	5123787	50.161 µg/ml
14) benzo(a)anthracene	12.772	4883350	50.327 µg/ml
15) chrysene	12.820	4951740	50.659 µg/ml
16) benzo(B)fluoranthene	14.068	4980192	49.821 µg/ml
17) benzo(k)fluoranthene	14.100	4922694	51.393 µg/ml
18) benzo(a)pyrene	14.402	4724847	50.445 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4854725	50.326 µg/mlm
20) dibenzo(ah)anthracene	15.587	4685536	50.795 µg/mlm
21) benzo(ghi)perylene	15.767	4705124	50.470 µg/ml
25) h c-9	2.680	3541836	46.375 µg/mlm
26) h c-10	3.833	3570776	46.367 µg/ml
27) naphthalene #2	5.513	3805435	47.627 µg/ml
28) c-12	5.688	3545795	46.341 µg/ml
29) 2-methylnaphthalene #2	6.408	3803724	46.794 µg/ml
30) c-14	7.205	3516096	46.029 µg/ml
31) c-16	8.535	3450251	45.521 µg/ml
32) c-18	9.728	3414559	45.531 µg/ml
33) c-19	10.285	3383527	46.150 µg/ml
34) c-20	10.815	3319667	46.221 µg/ml
36) c-22	11.812	3288115	46.440 µg/ml
37) c-24	12.730	3065680	45.782 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.582	3260990	46.520	µg/ml
39)		c-28	14.375	3155644	46.526	µg/ml
40)	h	c-30	15.122	3152151	45.837	µg/ml
41)	h	c-36	17.010	2883025	47.180	µg/mlm

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

9.5.5

9

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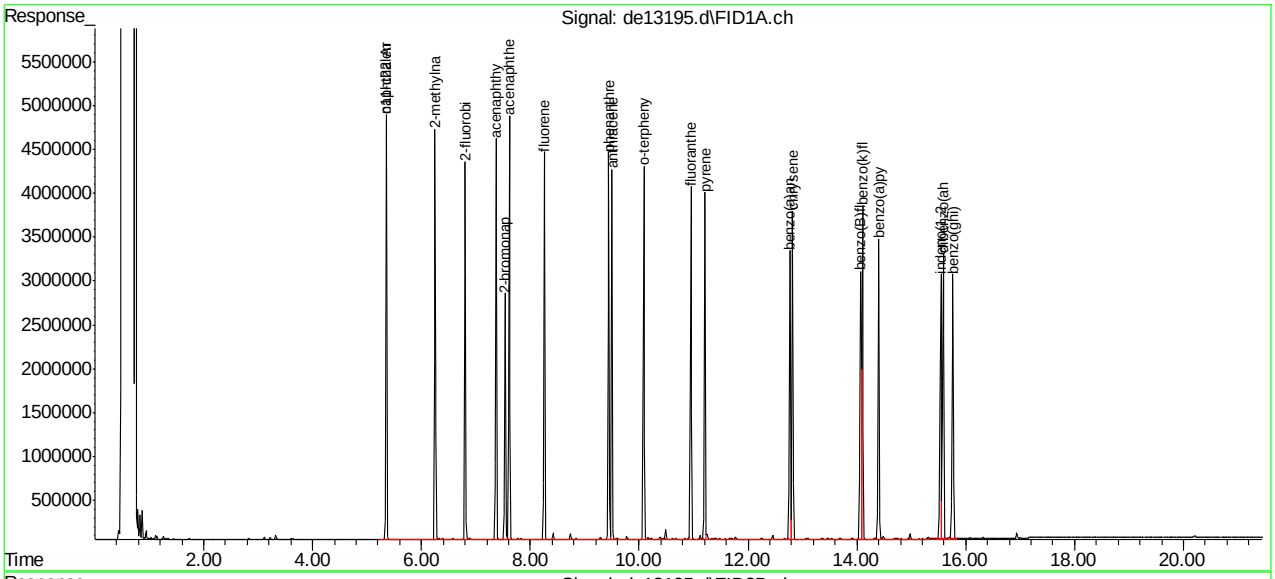
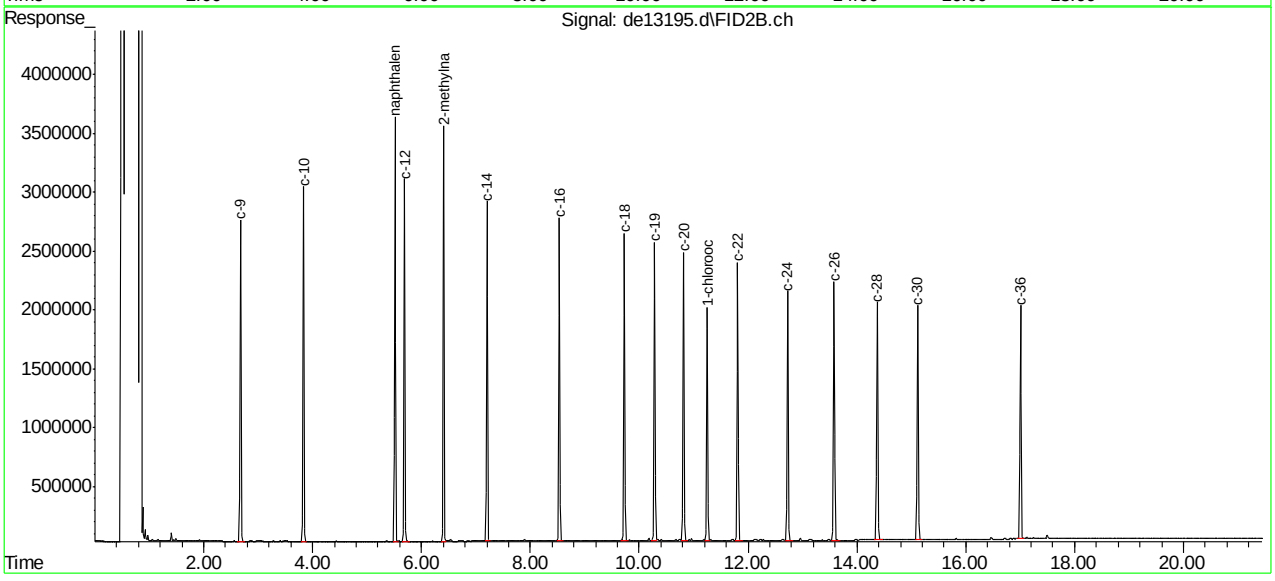
Quantitation Report (QT Reviewed)

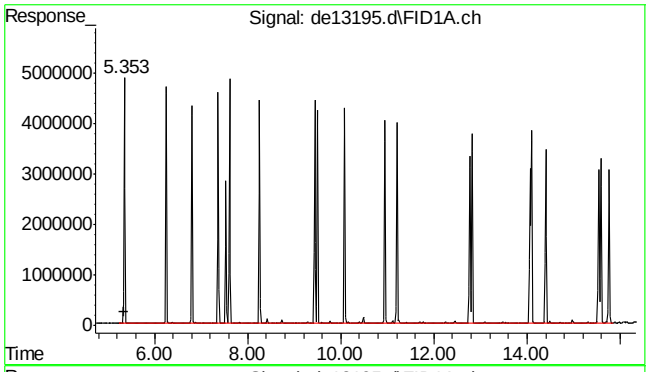
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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

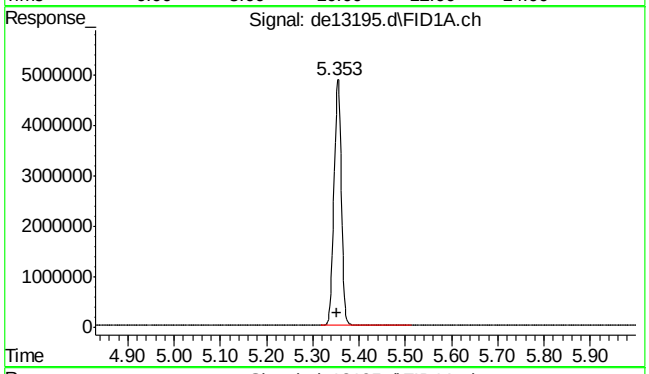






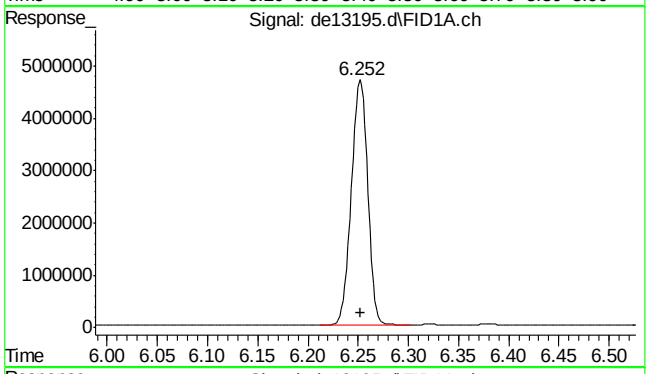
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



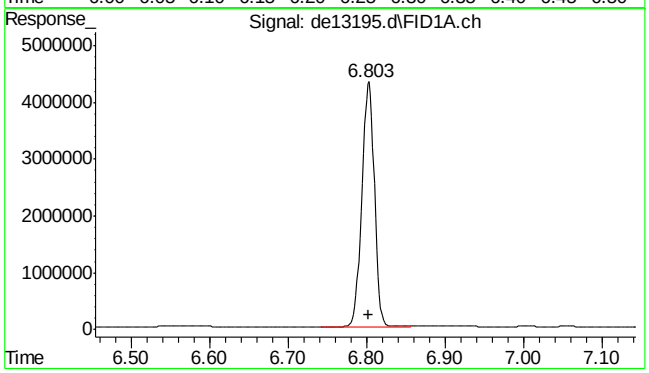
#2 naphthalene

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



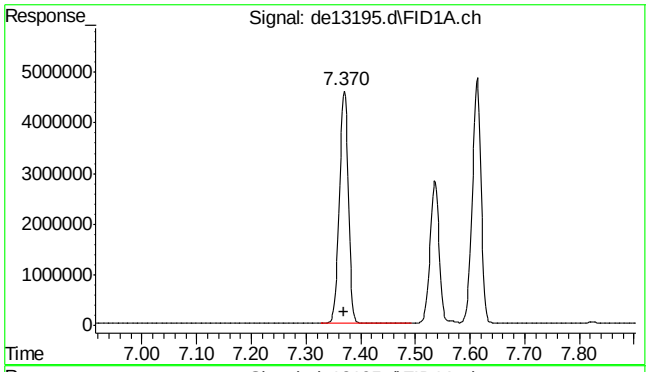
#4 2-fluorobiphenyl

R.T.: 6.803 min
Delta R.T.: 0.000 min
Response: 4755859
Conc: 50.97 µg/ml

9.5.5

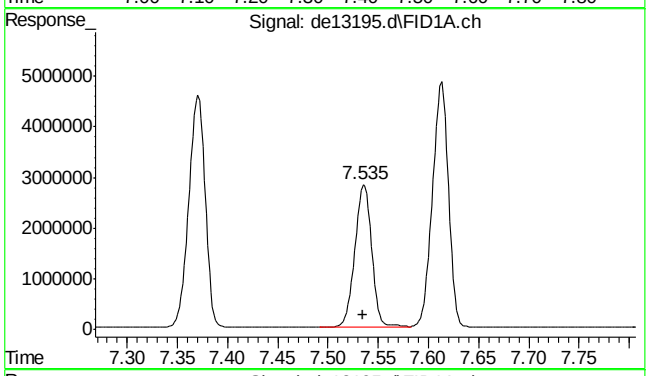
9

SGS ACCUTEST MC45678



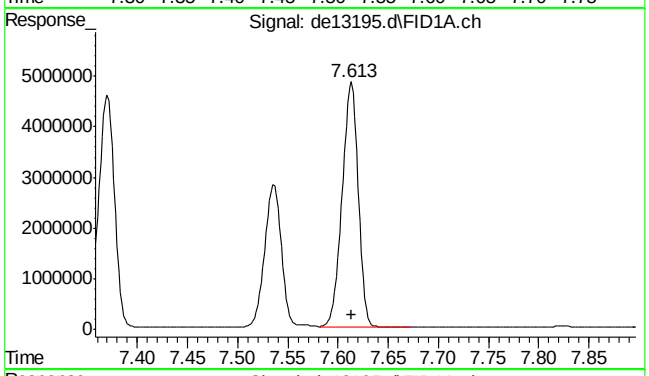
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



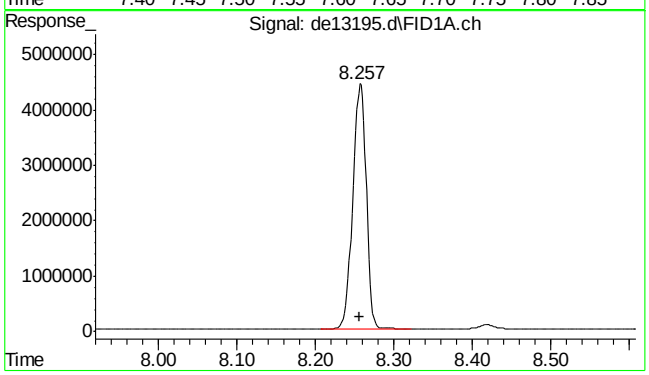
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



#7 acenaphthene

R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



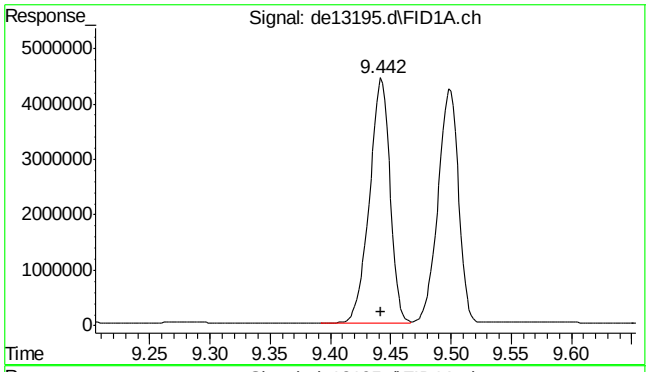
#8 fluorene

R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

9.5.5

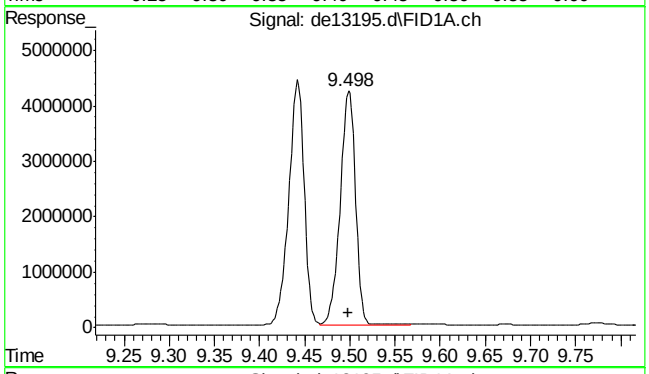
9

SGS ACCUTEST MC45678



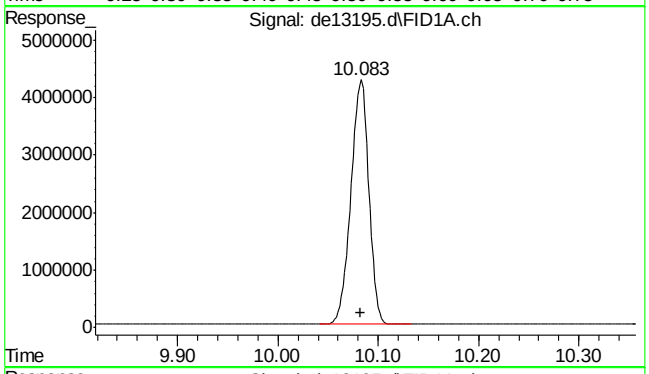
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



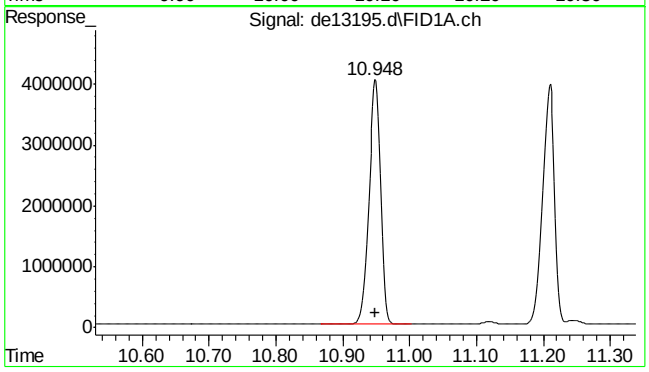
#10 anthracene

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 4970359
Conc: 51.42 µg/ml



#11 o-terphenyl

R.T.: 10.083 min
Delta R.T.: 0.000 min
Response: 5257542
Conc: 50.99 µg/ml



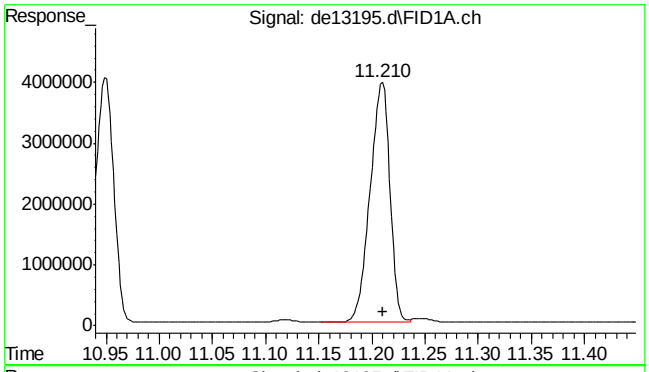
#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.5.5

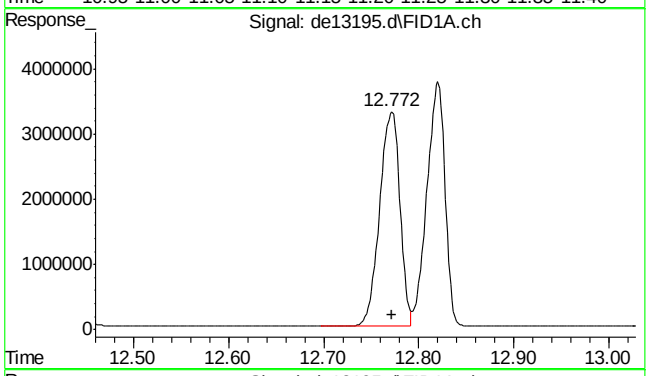
9

SGS ACCUTEST MC45678



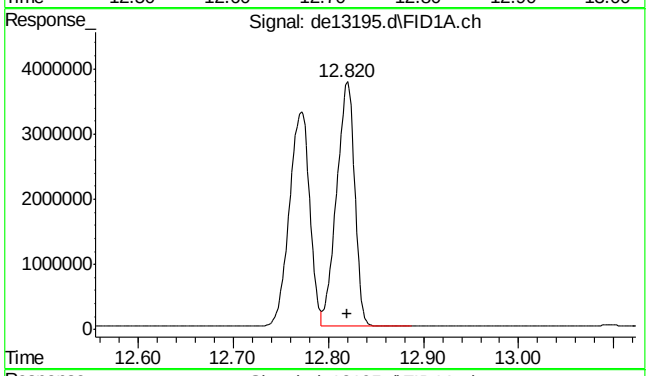
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



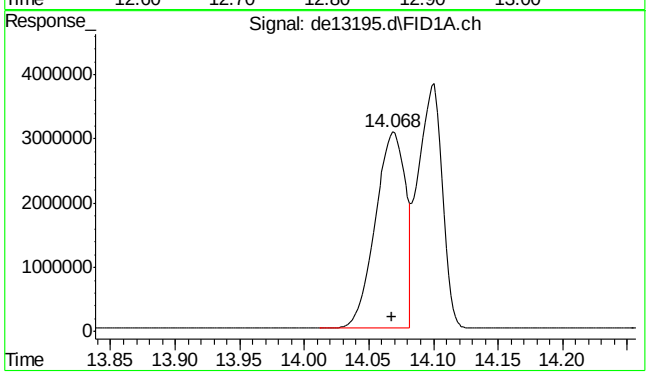
#14 benzo(a)anthracene

R.T.: 12.772 min
Delta R.T.: 0.000 min
Response: 4883350
Conc: 50.33 µg/ml



#15 chrysene

R.T.: 12.820 min
Delta R.T.: 0.000 min
Response: 4951740
Conc: 50.66 µg/ml

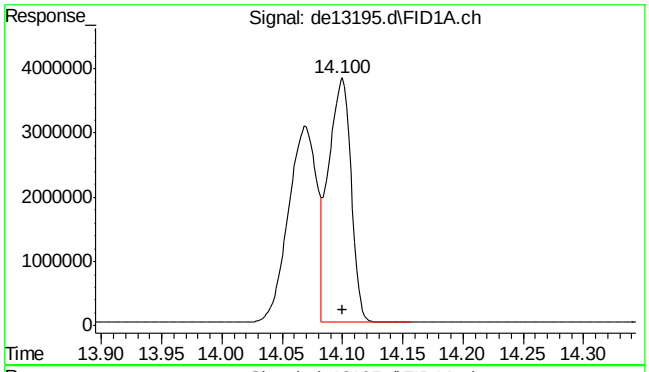


#16 benzo(B)fluoranthene

R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml

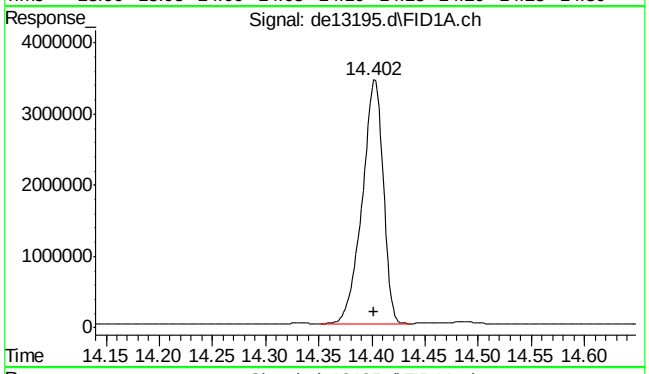
9.5.5
9

SGS ACCUTEST MC45678



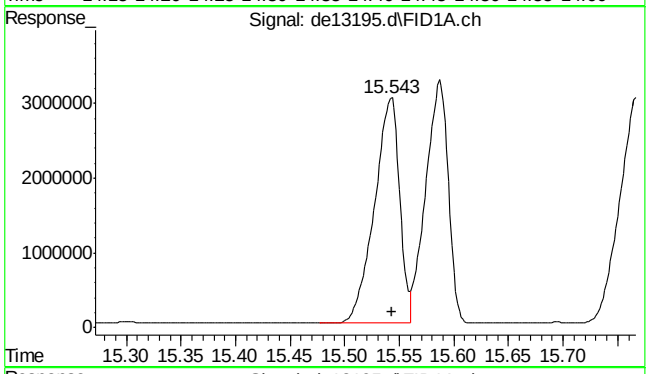
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



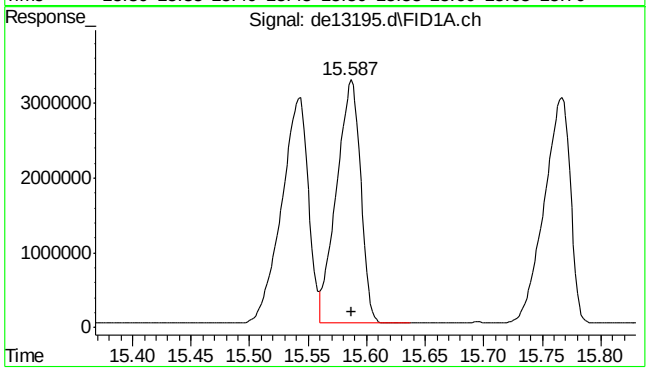
#18 benzo(a)pyrene

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

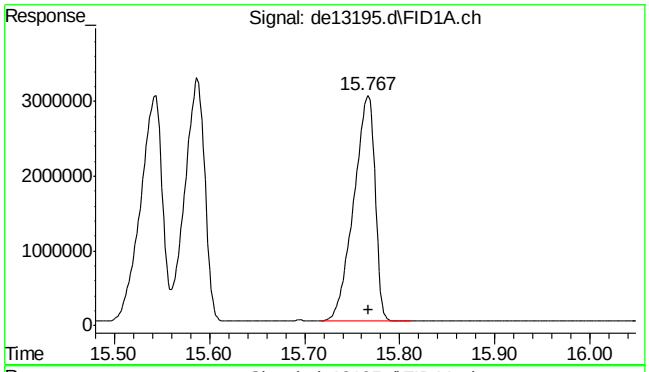
R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4854725
Conc: 50.33 µg/ml m



#20 dibenzo(ah)anthracene

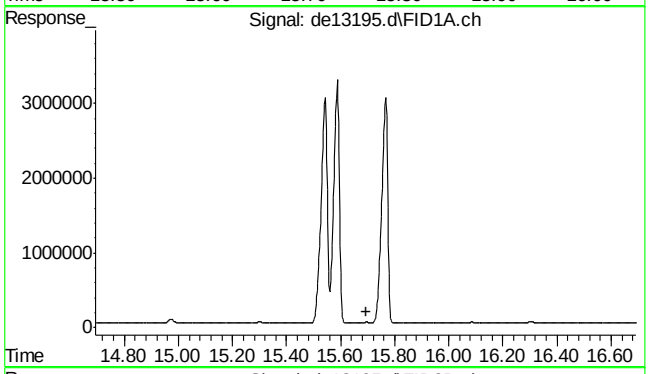
R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m

SGS ACCUTEST MC45678



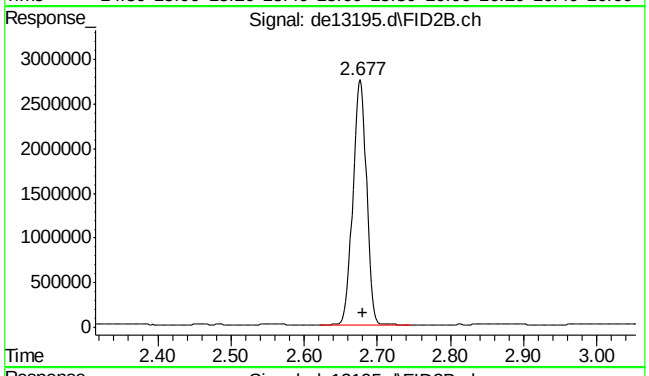
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



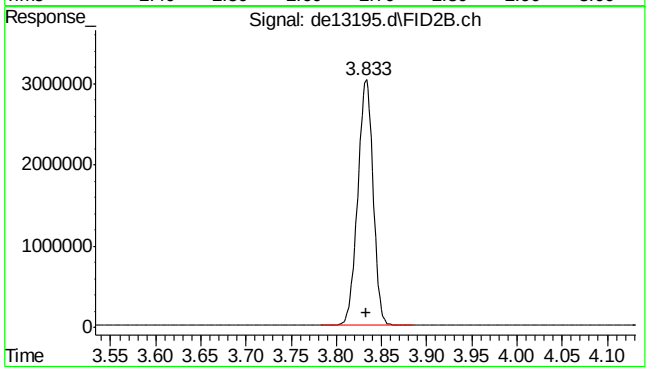
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



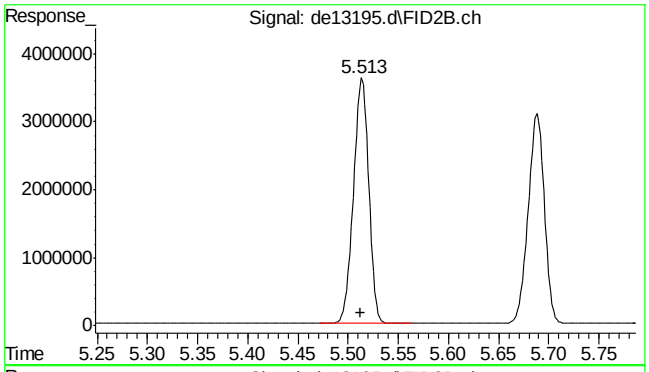
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

9.5.5

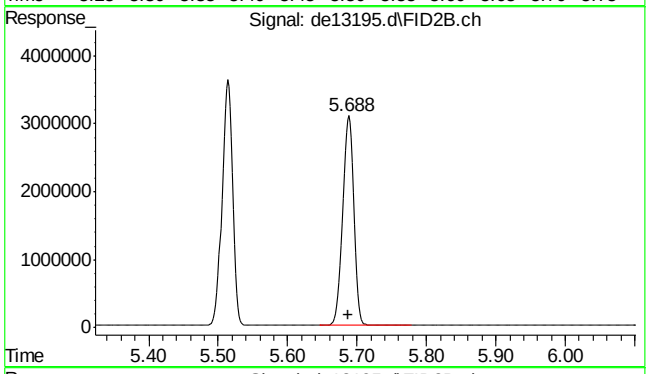
9

SGS ACCUTEST MC45678



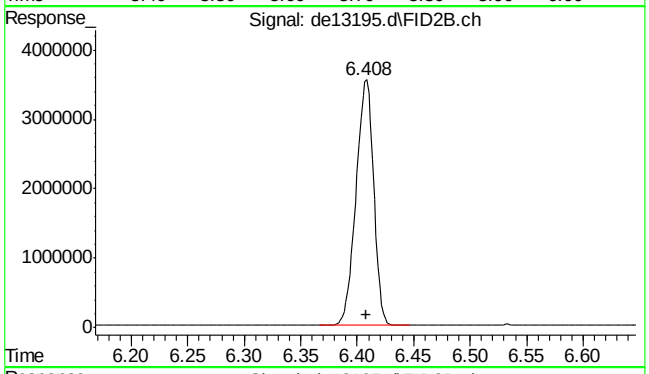
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



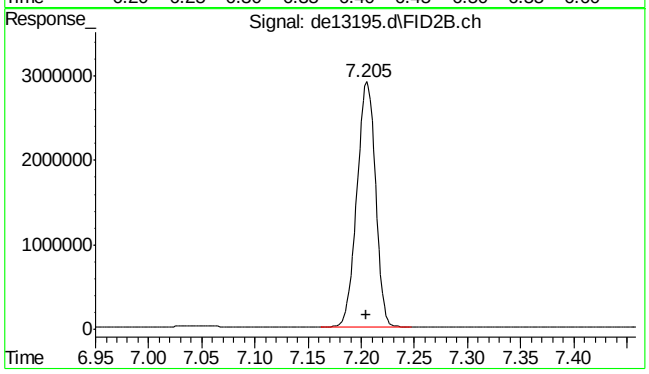
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3545795
Conc: 46.34 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3803724
Conc: 46.79 µg/ml

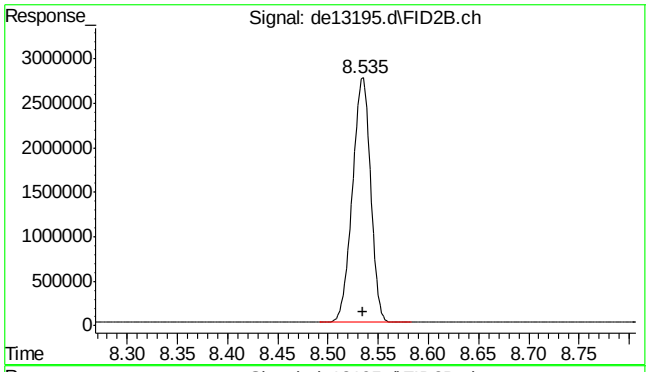


#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

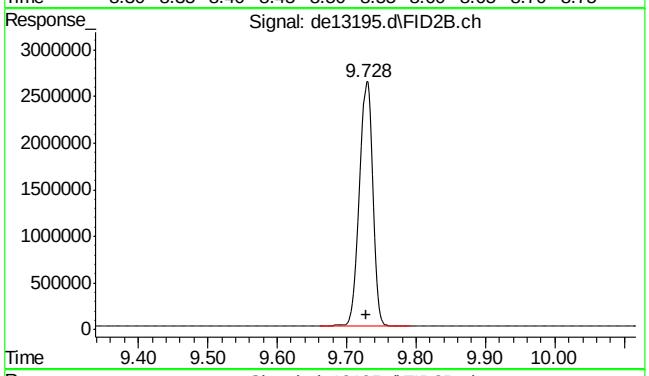
9.5.5
9

SGS ACCUTEST MC45678



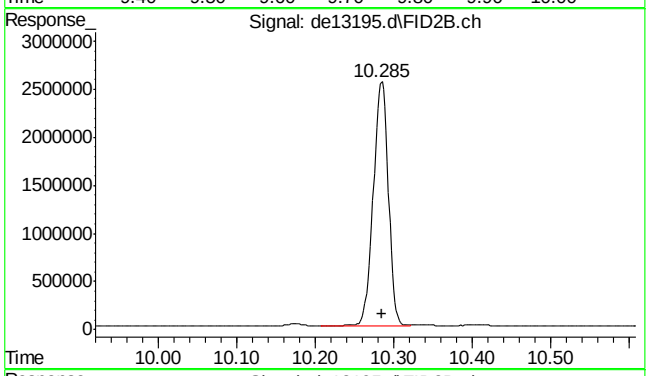
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



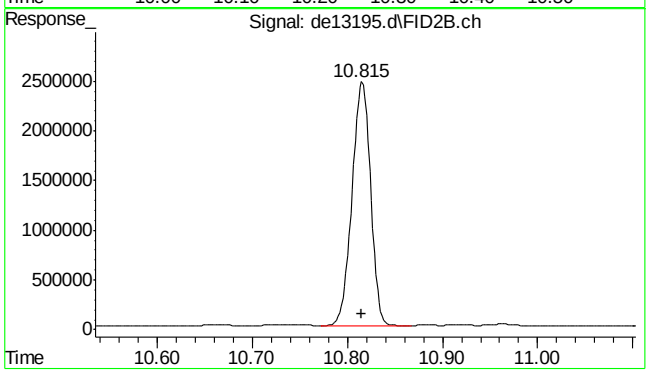
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



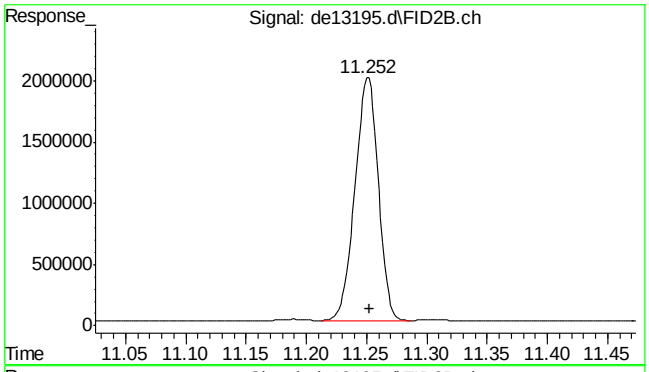
#33 c-19

R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



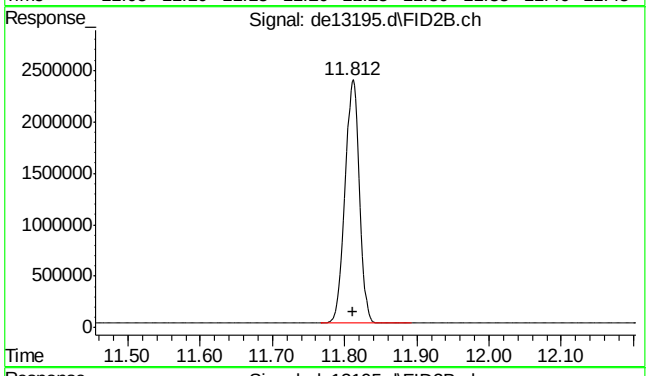
#34 c-20

R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml



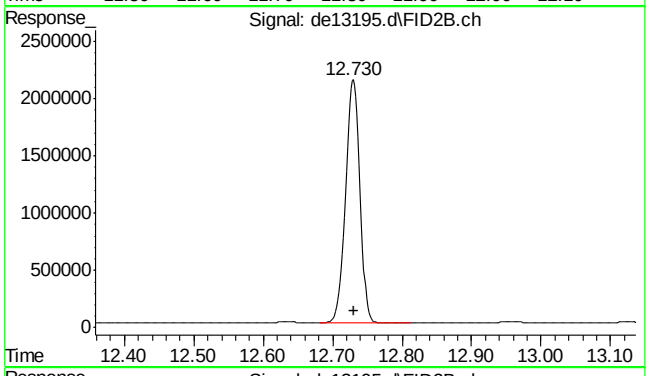
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



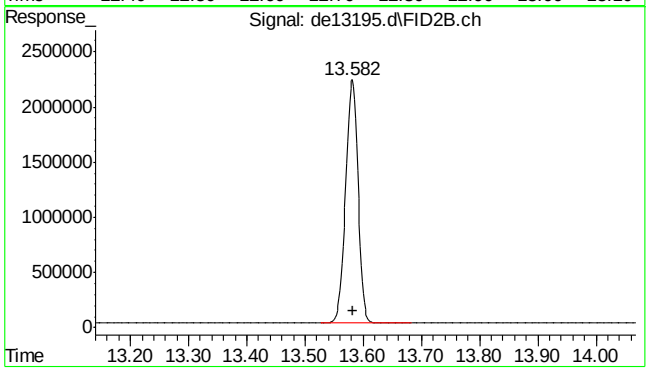
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3288115
Conc: 46.44 µg/ml



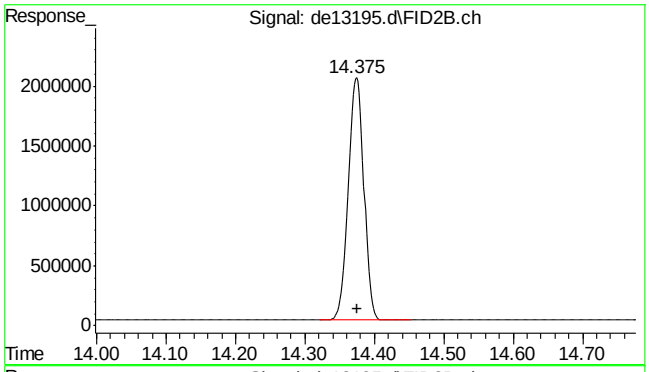
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3065680
Conc: 45.78 µg/ml



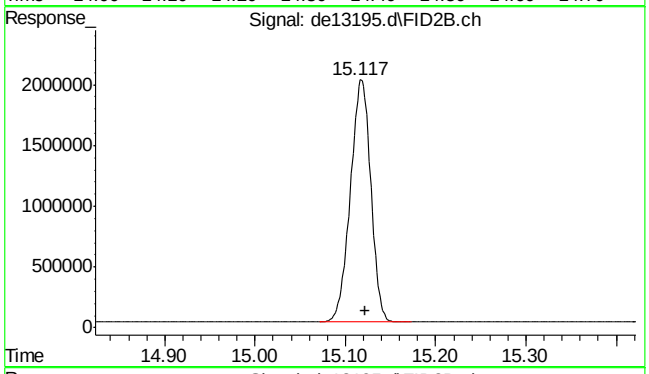
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml



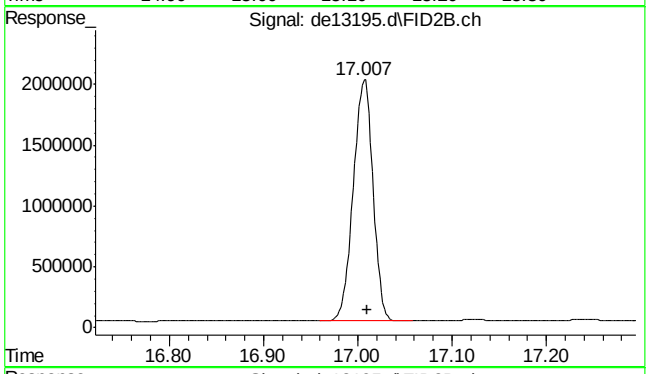
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



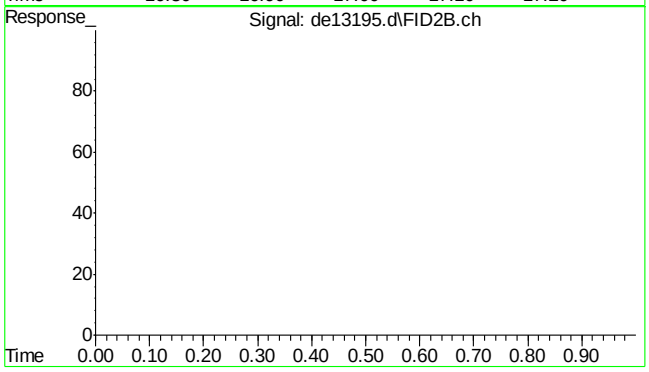
#40 c-30

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



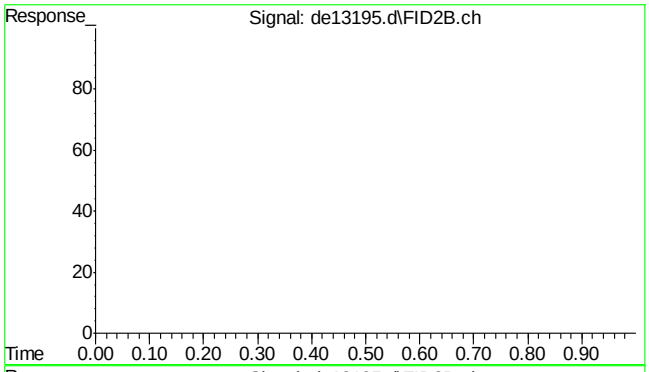
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.5

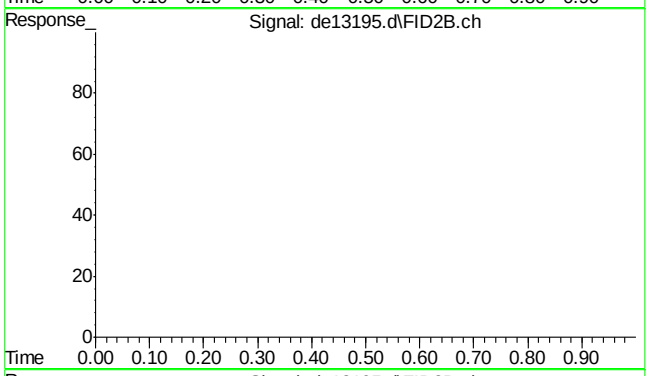
6

SGS ACCUTEST MC45678



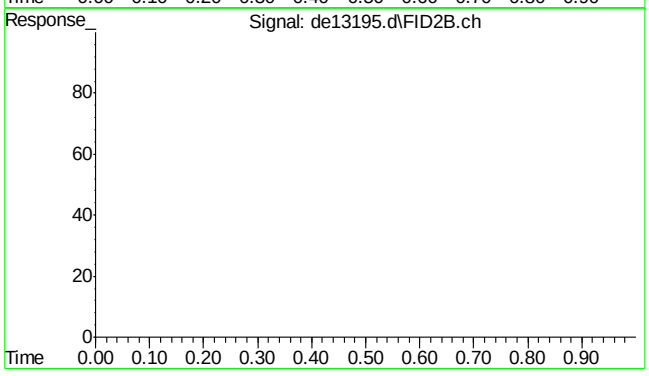
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

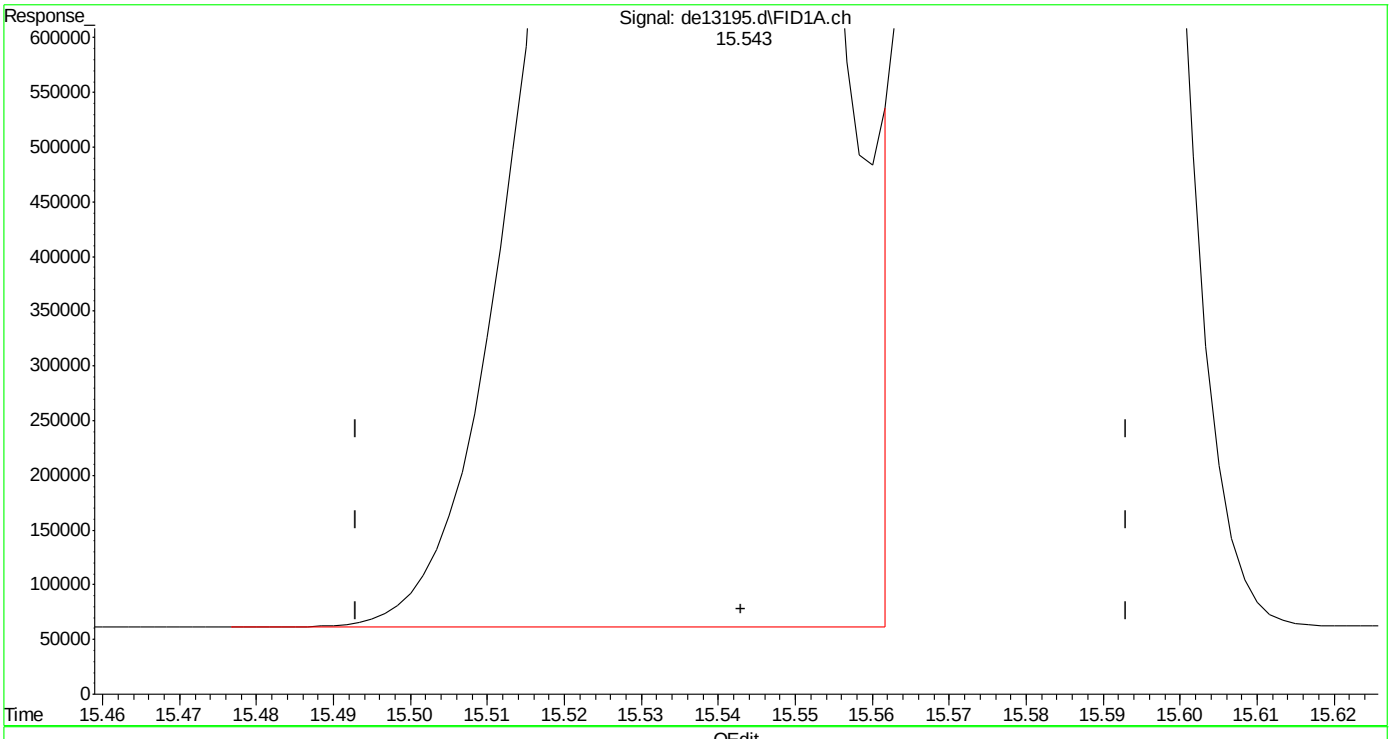
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.543min 50.804 µg/ml
response 4900817

(+) = Expected Retention Time

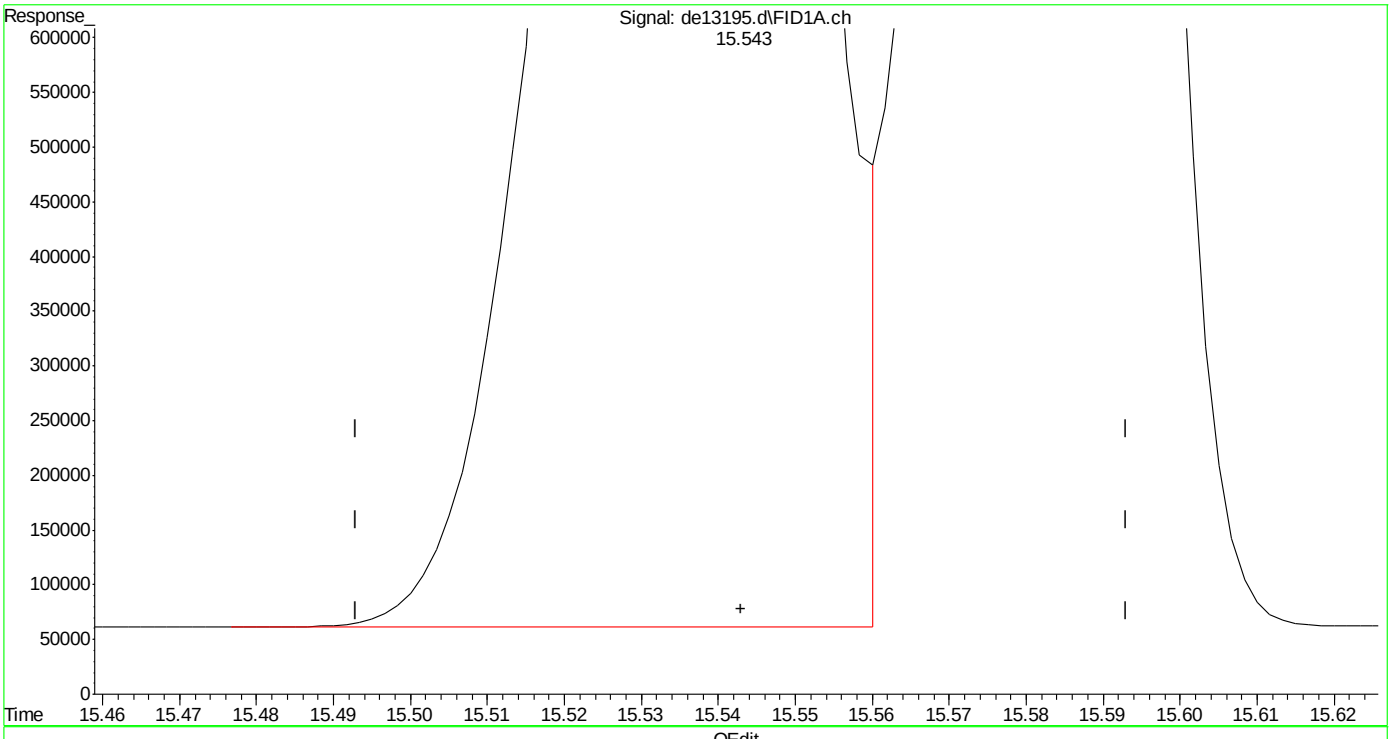
SGS ACCUTEST MC45678

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

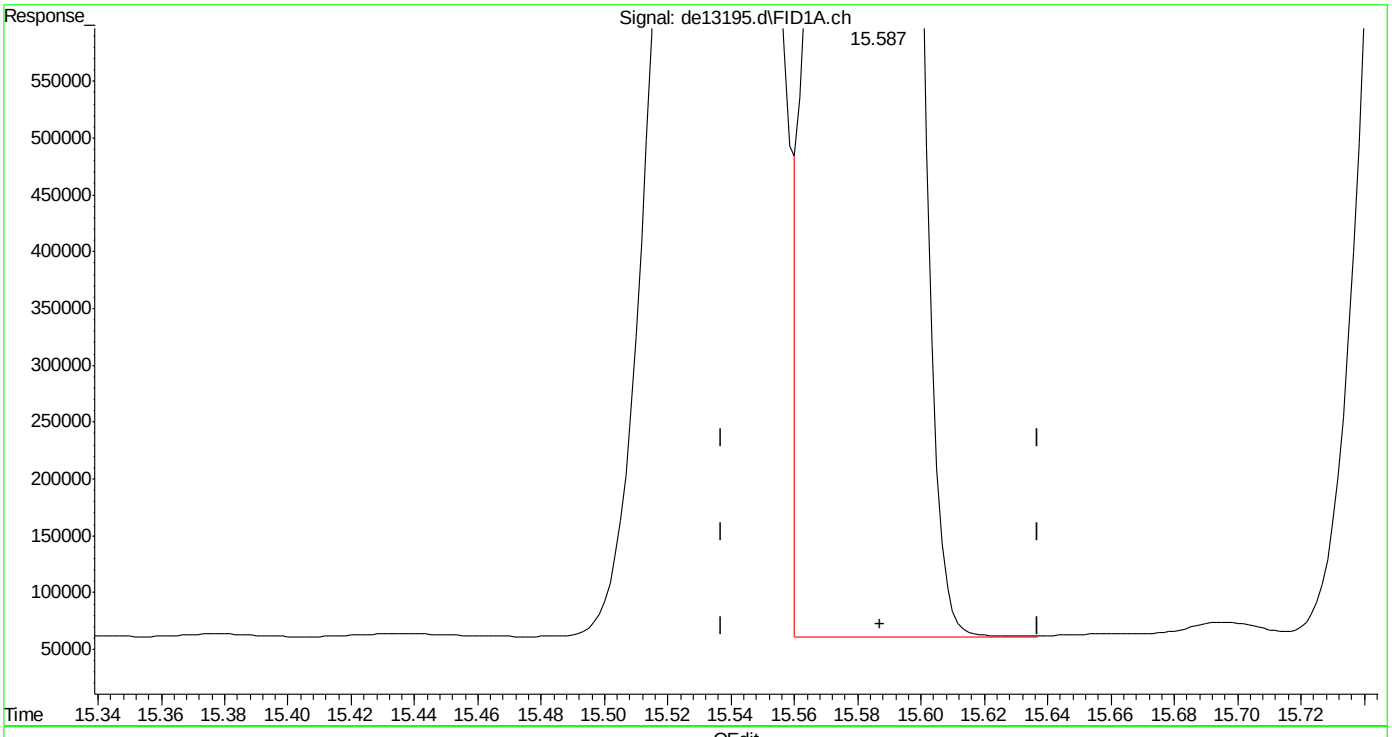
(+) = Expected Retention Time

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

SGS ACCUTEST MC45678

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

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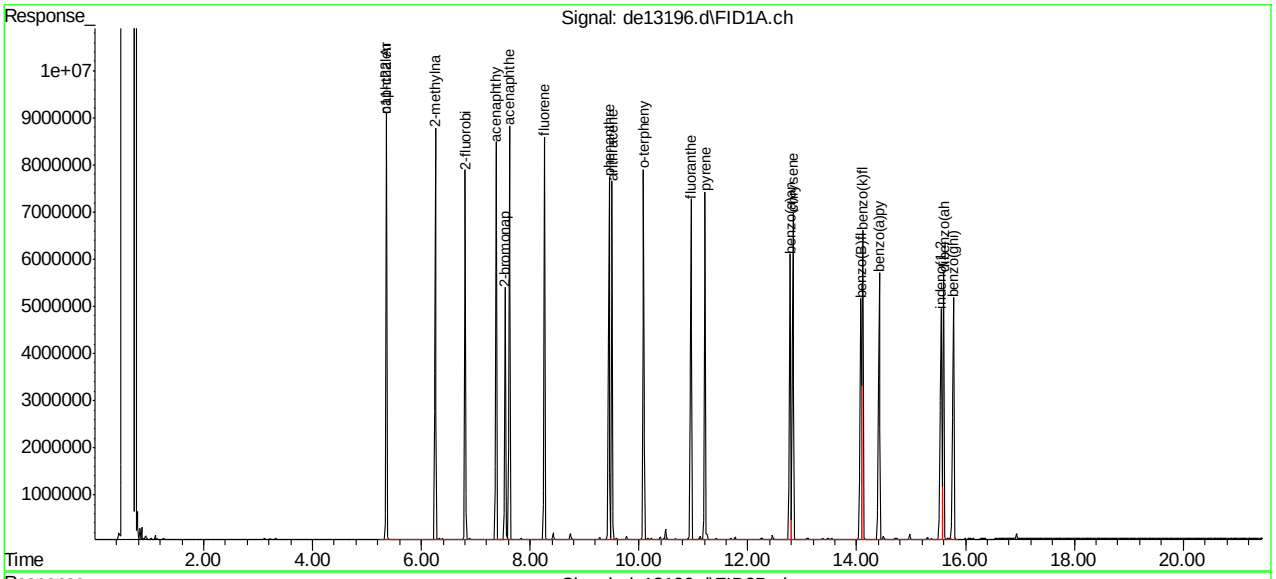
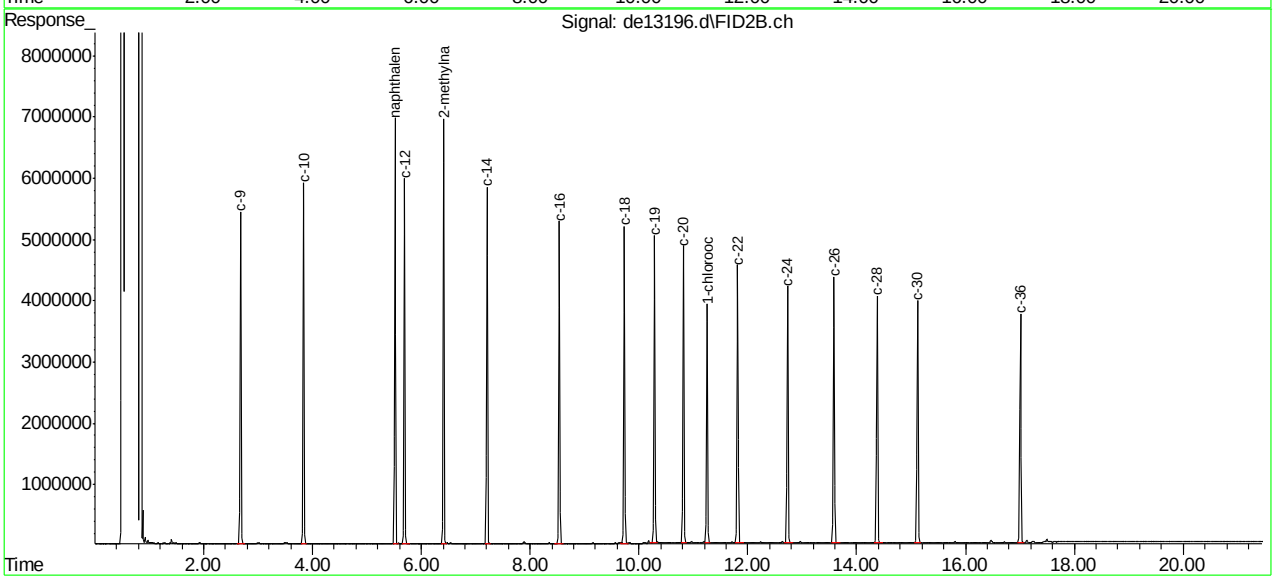
Quantitation Report (QT Reviewed)

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

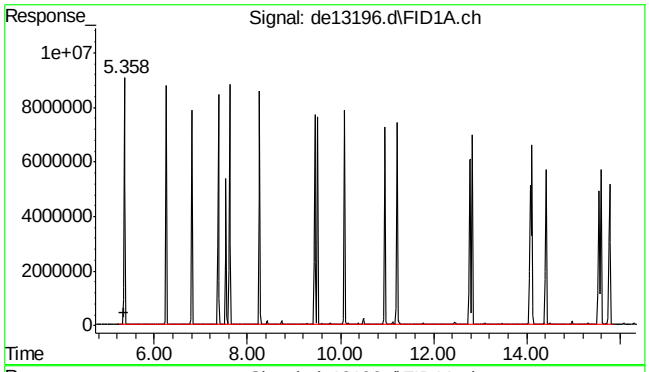
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



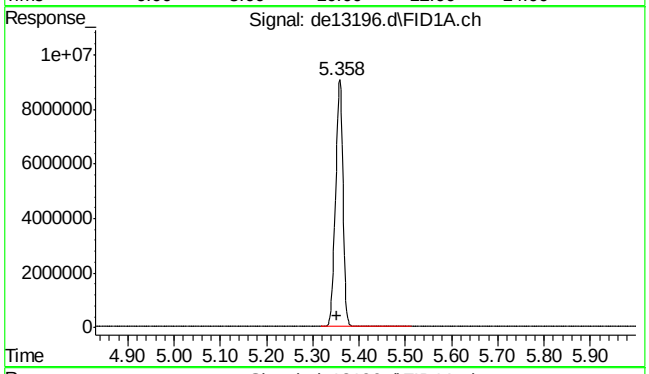


SGS ACCUTEST MC45678



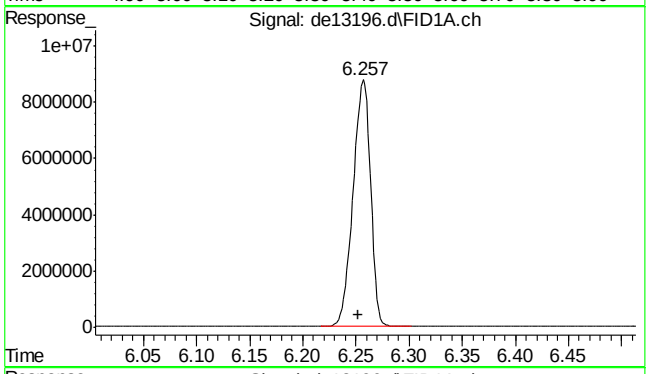
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



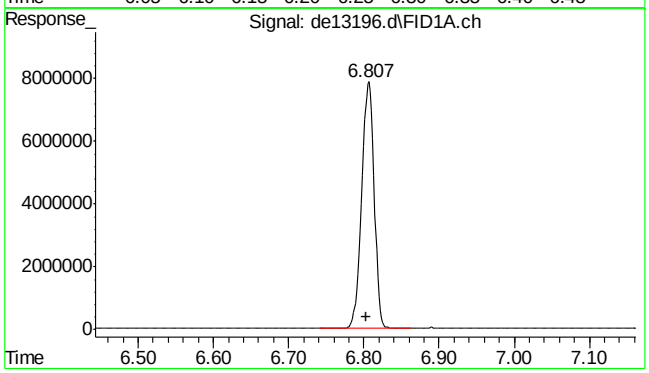
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



#3 2-methylnaphthalene

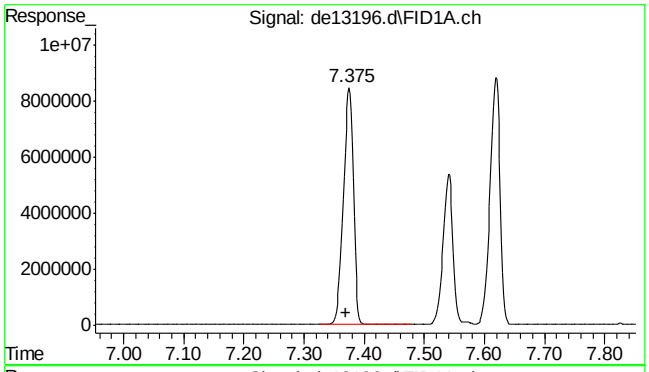
R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



#4 2-fluorobiphenyl

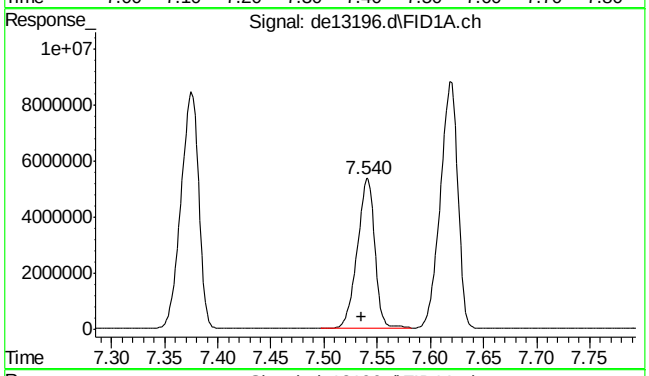
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml

SGS ACCUTEST MC45678



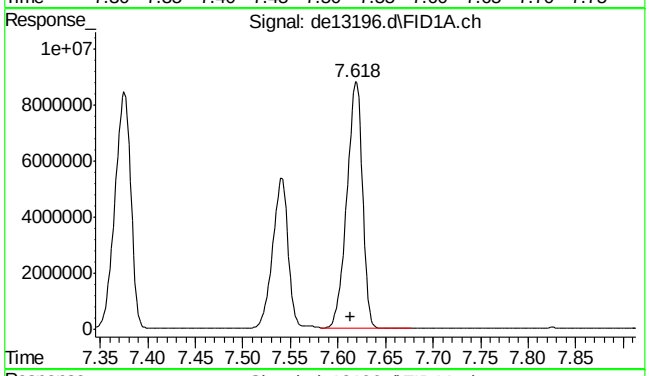
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



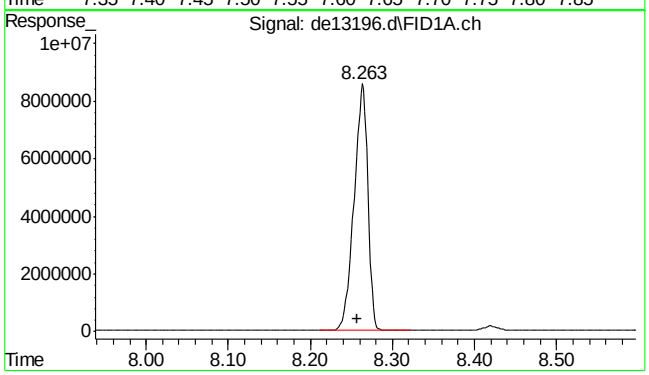
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 6121297
Conc: 96.50 µg/ml



#7 acenaphthene

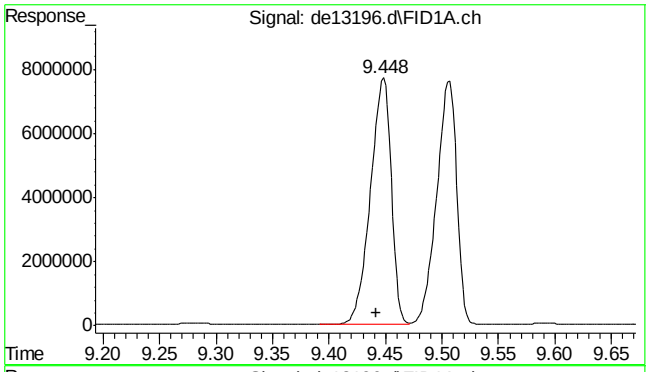
R.T.: 7.618 min
Delta R.T.: 0.005 min
Response: 10095451
Conc: 96.62 µg/ml



#8 fluorene

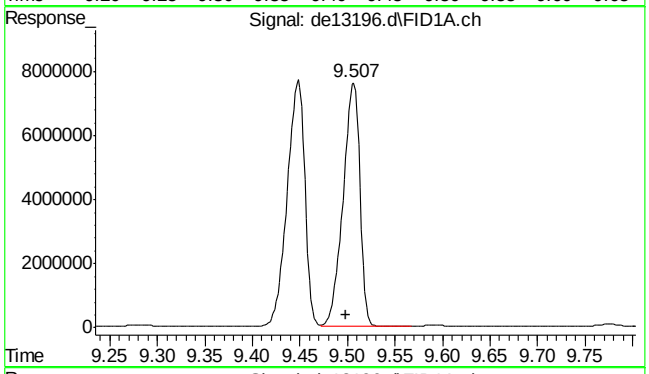
R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

SGS ACCUTEST MC45678



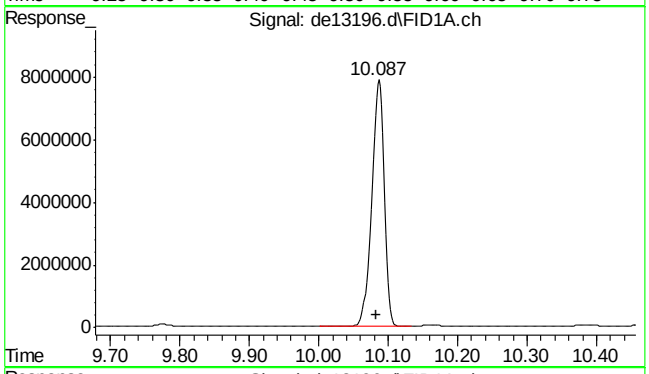
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



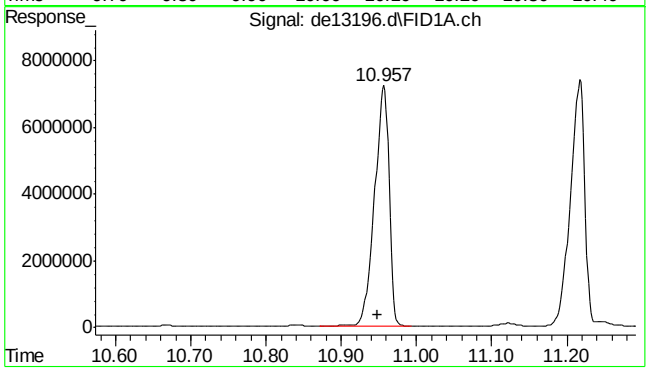
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

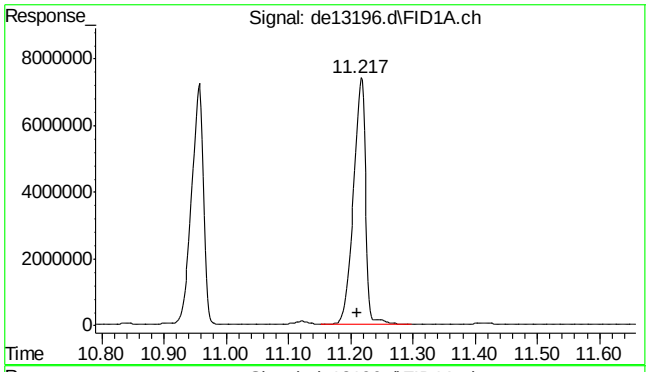
R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



#12 fluoranthene

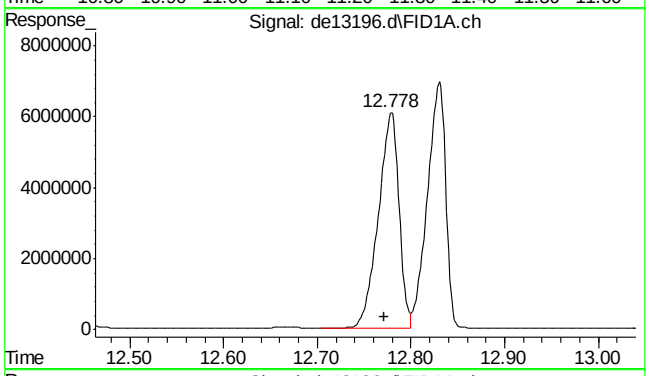
R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

SGS ACCUTEST MC45678



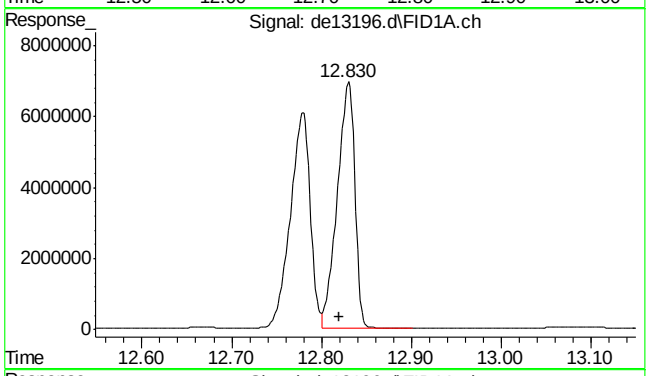
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



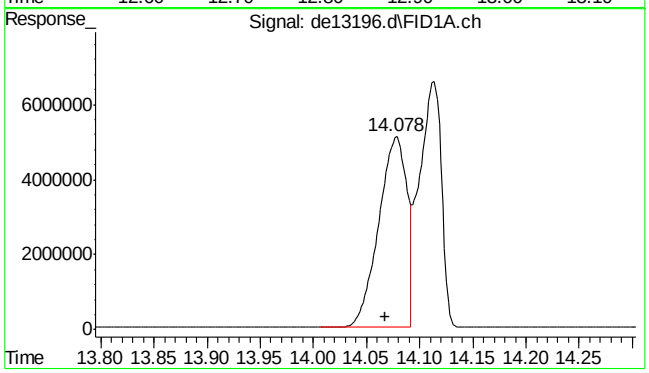
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



#15 chrysene

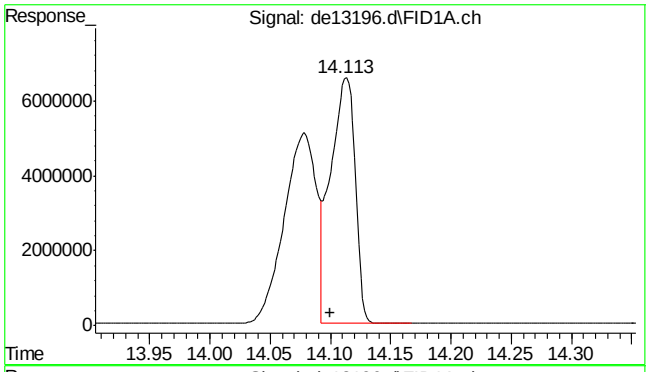
R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



#16 benzo(B)fluoranthene

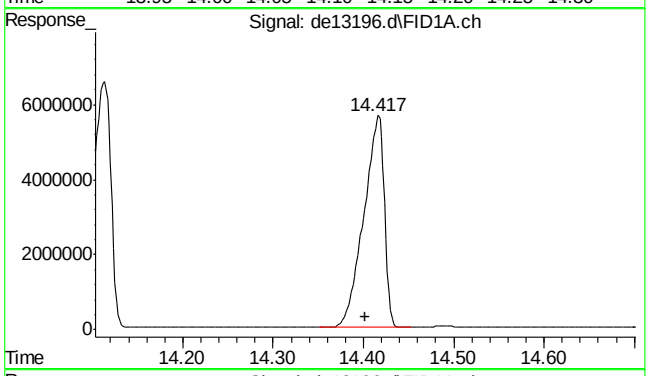
R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml

SGS ACCUTEST MC45678



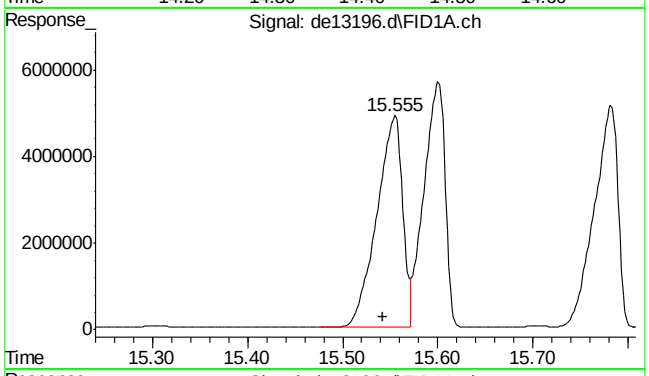
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



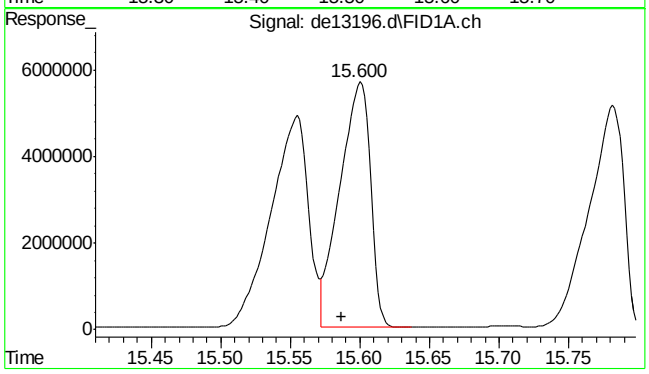
#18 benzo(a)pyrene

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

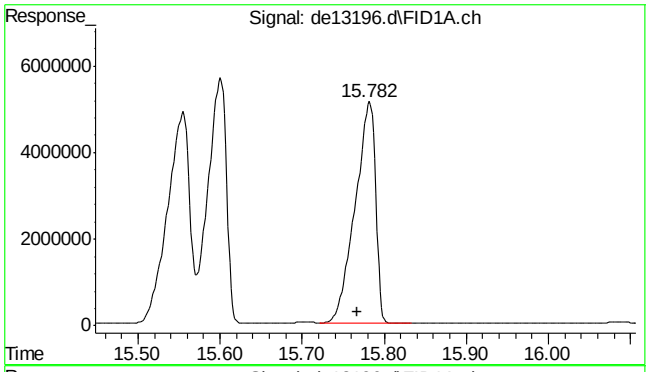
R.T.: 15.555 min
Delta R.T.: 0.012 min
Response: 9240715
Conc: 95.92 µg/ml



#20 dibenzo(ah)anthracene

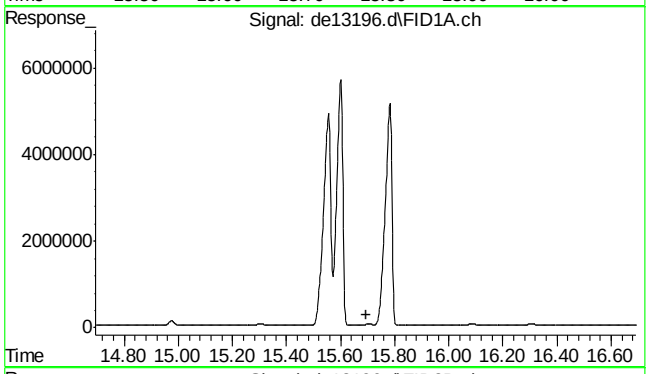
R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml

SGS ACCUTEST MC45678



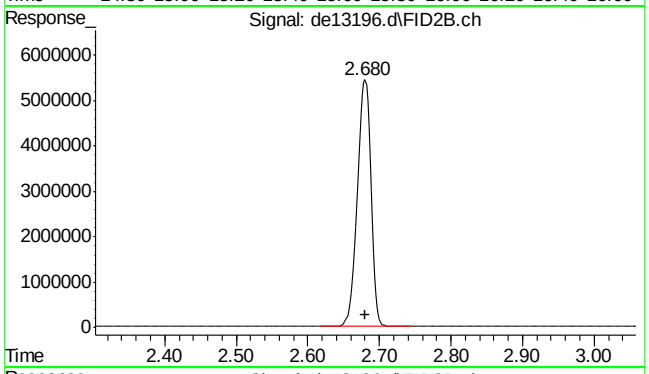
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



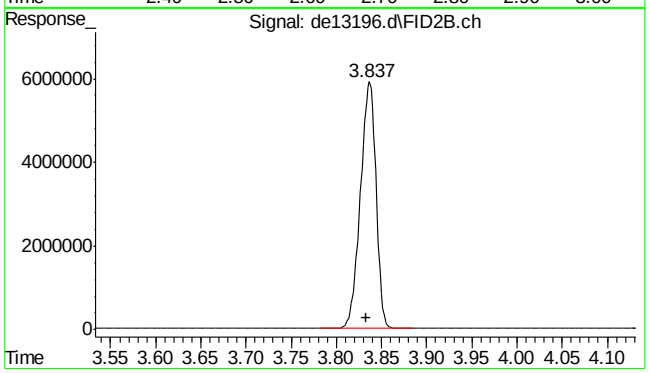
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

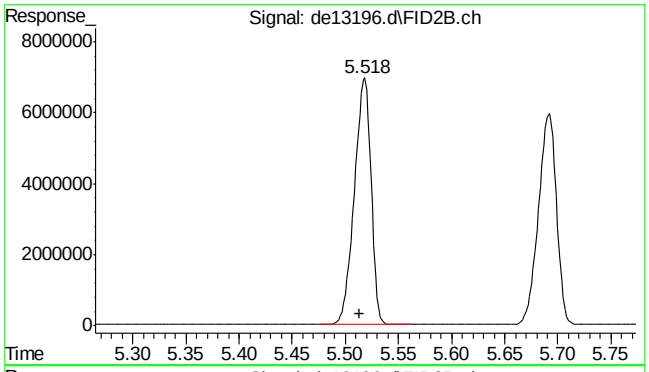
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 7080731
Conc: 92.72 µg/ml m



#26 c-10

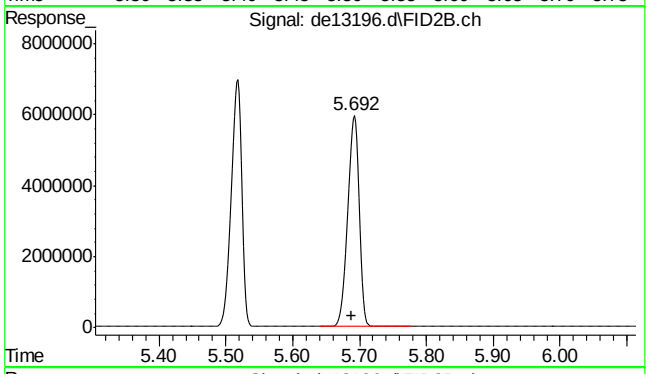
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

SGS ACCUTEST MC45678



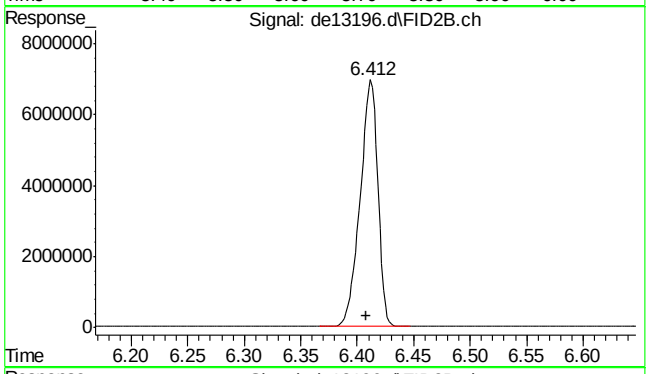
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



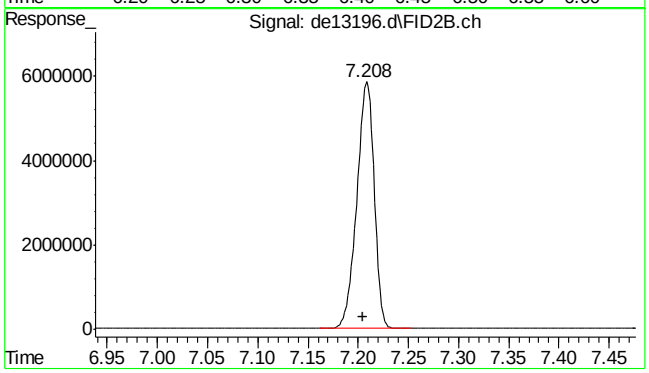
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



#29 2-methylnaphthalene #2

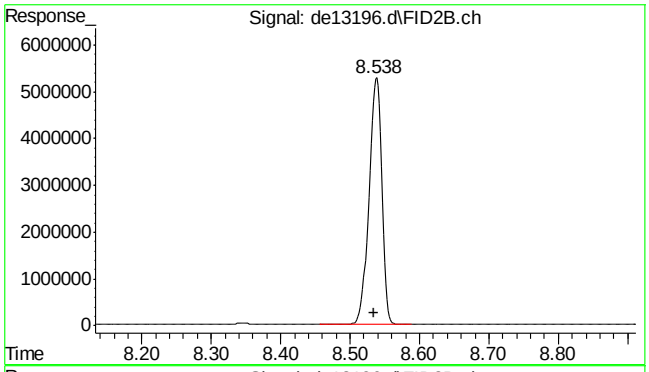
R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



#30 c-14

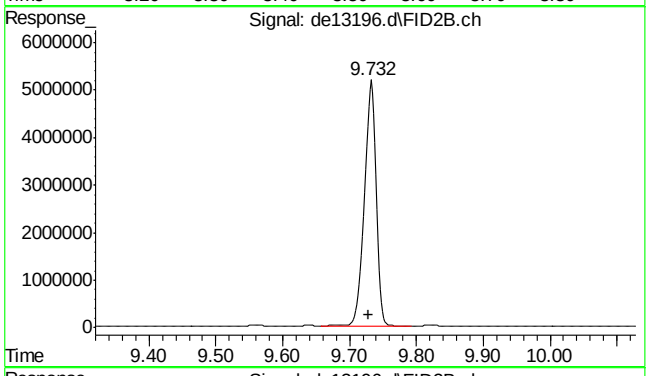
R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml

SGS ACCUTEST MC45678



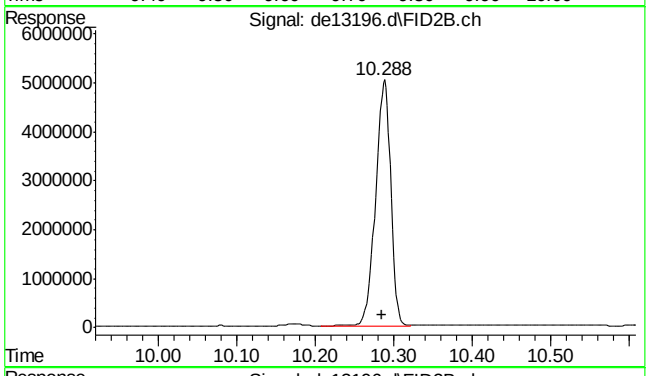
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



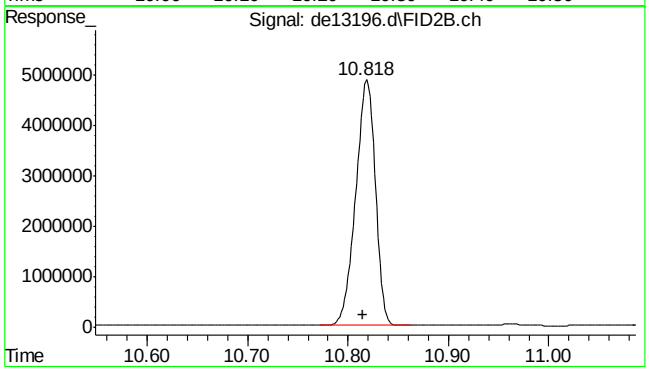
#32 c-18

R.T.: 9.732 min
Delta R.T.: 0.004 min
Response: 6758324
Conc: 90.12 µg/ml



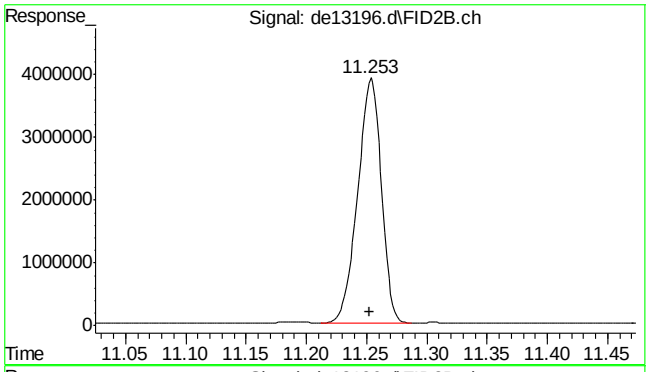
#33 c-19

R.T.: 10.288 min
Delta R.T.: 0.003 min
Response: 6704725
Conc: 91.45 µg/ml



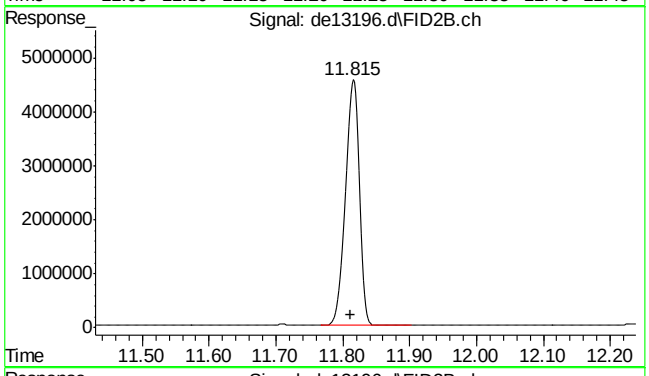
#34 c-20

R.T.: 10.818 min
Delta R.T.: 0.003 min
Response: 6591283
Conc: 91.77 µg/ml



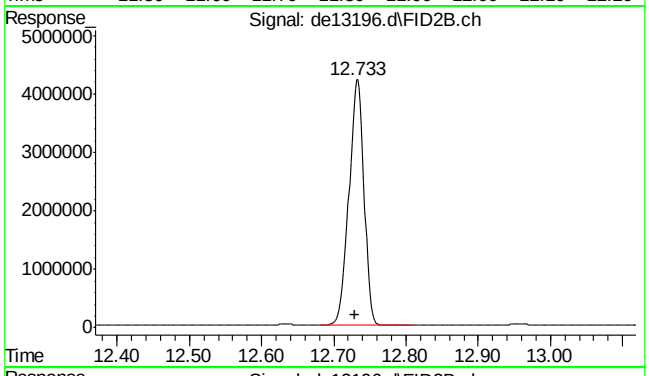
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



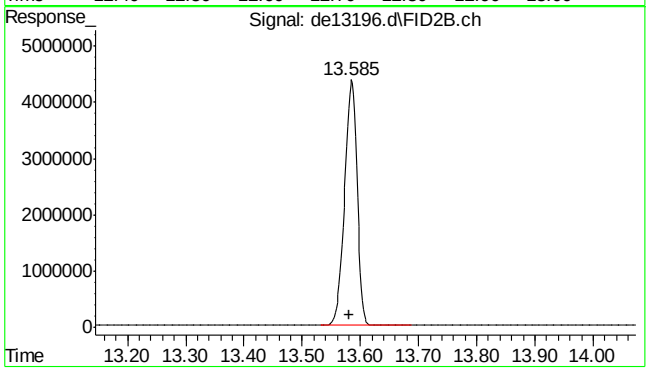
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



#37 c-24

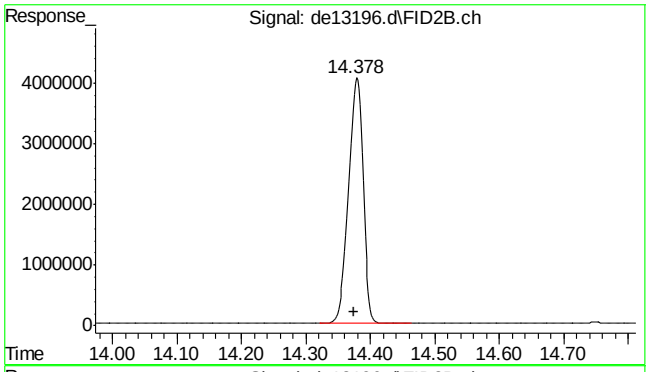
R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



#38 c-26

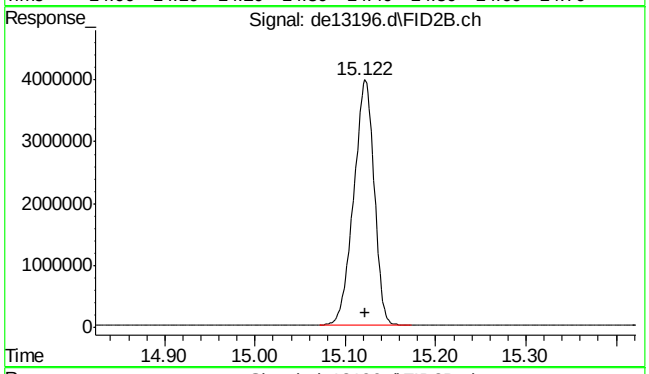
R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml

SGS ACCUTEST MC45678



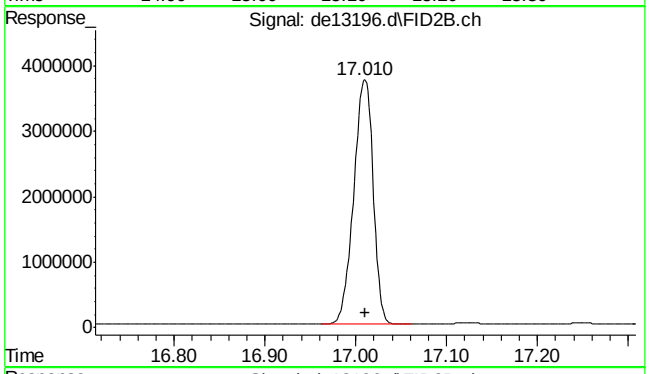
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



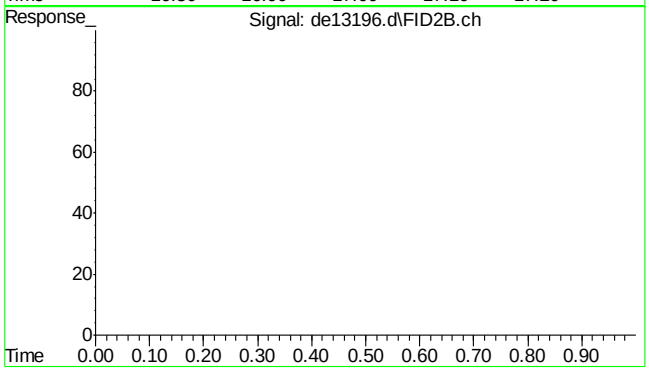
#40 c-30

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



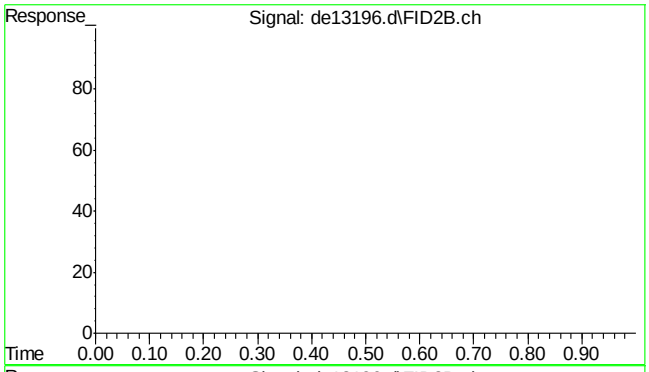
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.6

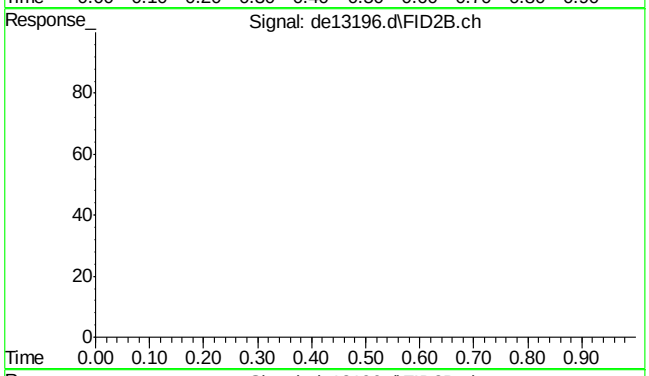
9

SGS ACCUTEST MC45678



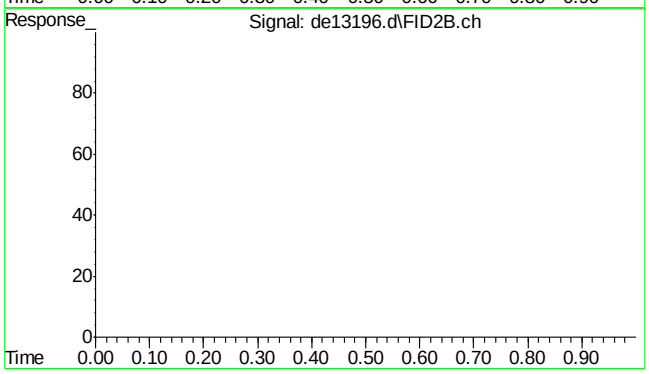
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

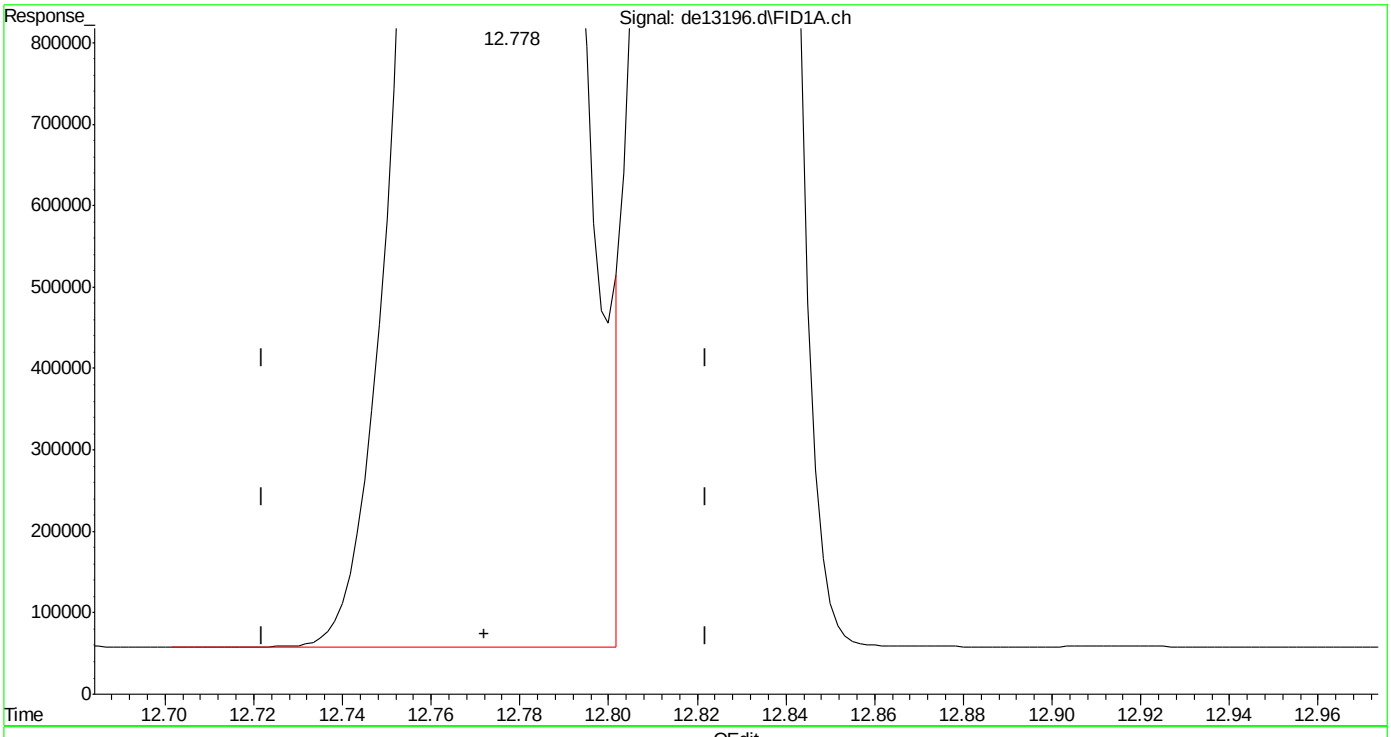
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.778min 96.536 µg/ml
response 9367180

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:59:36 2016

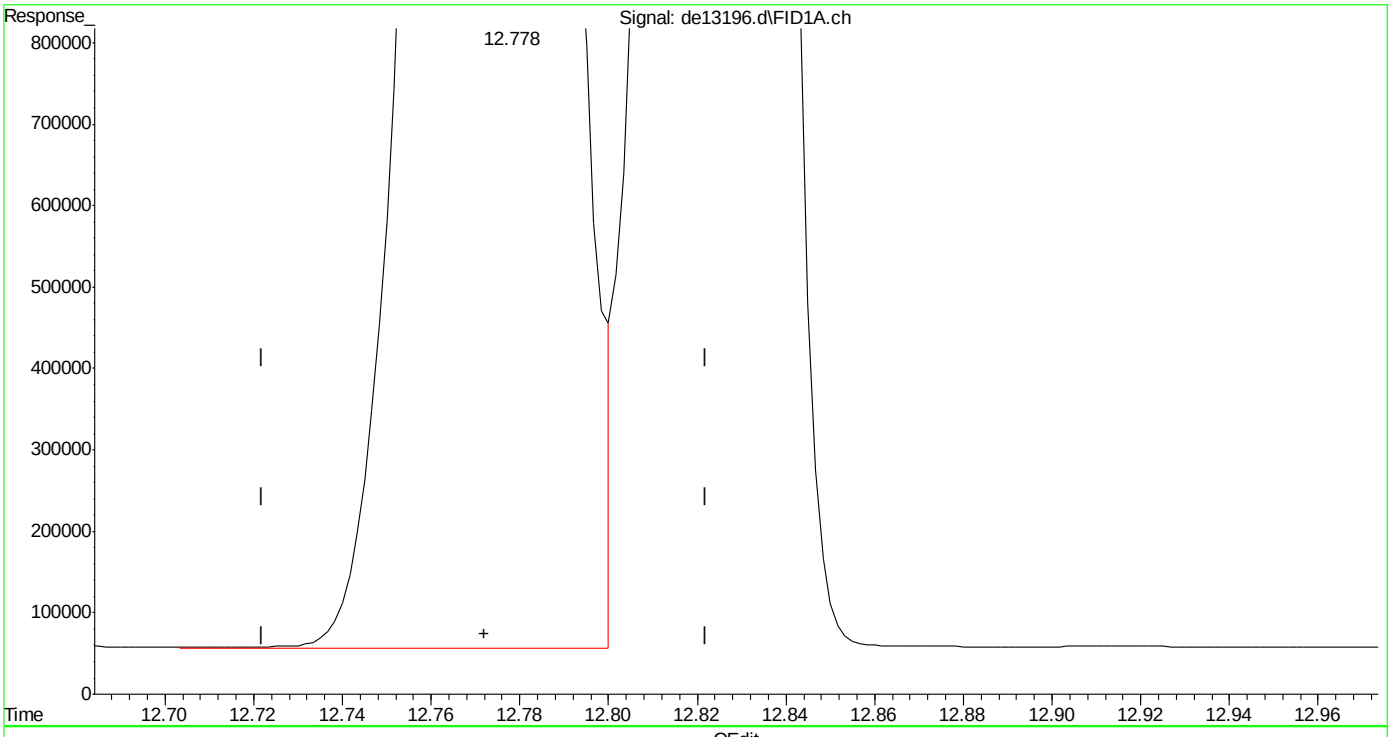
SGS ACCUTEST MC45678

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

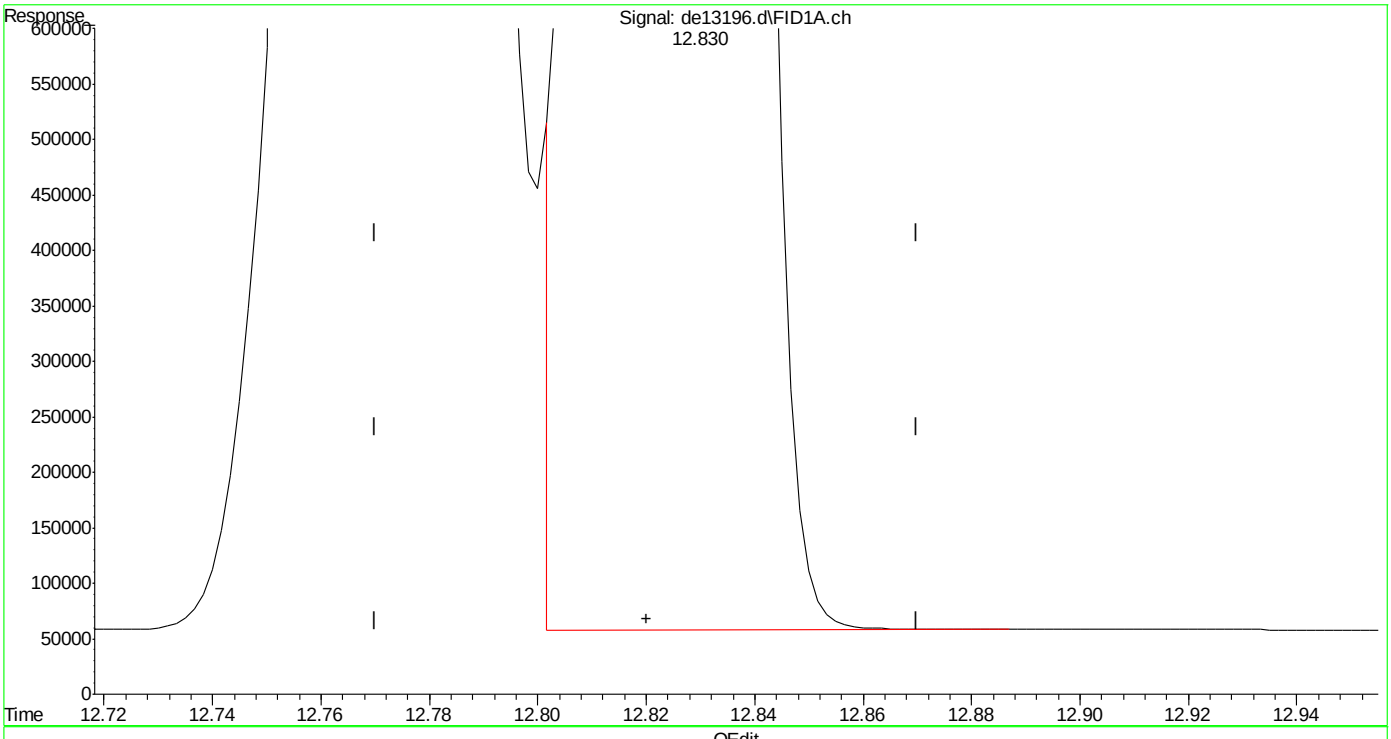
(+) = Expected Retention Time

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

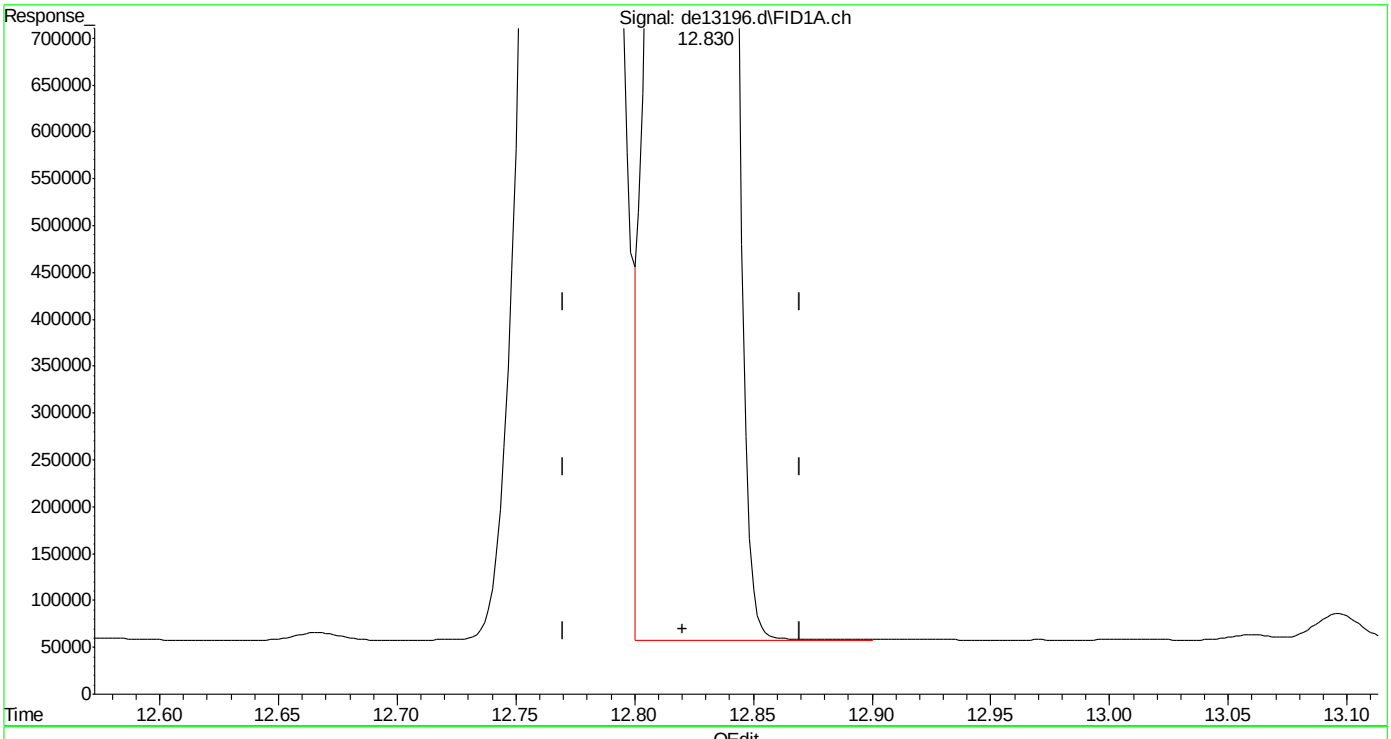
(+) = Expected Retention Time

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
EPH160204M.M Fri Feb 05 11:01:59 2016

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

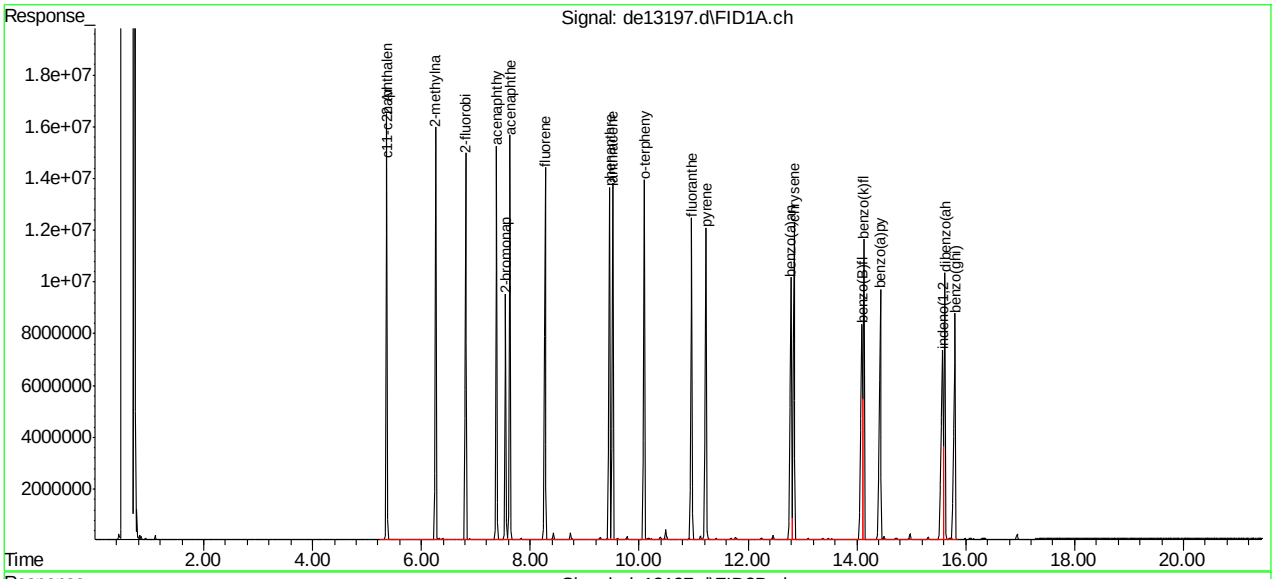
SGS ACCUTEST MC45678

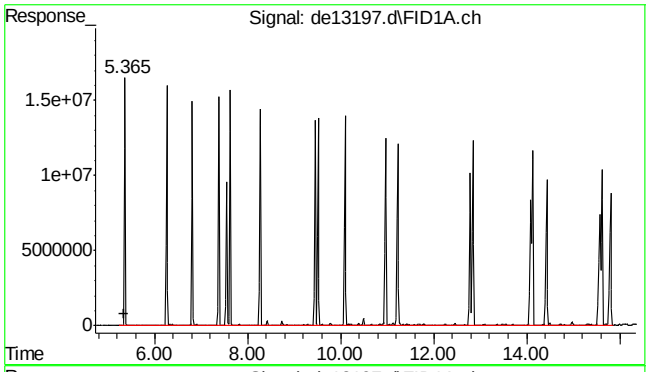
Quantitation Report (QT Reviewed)

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

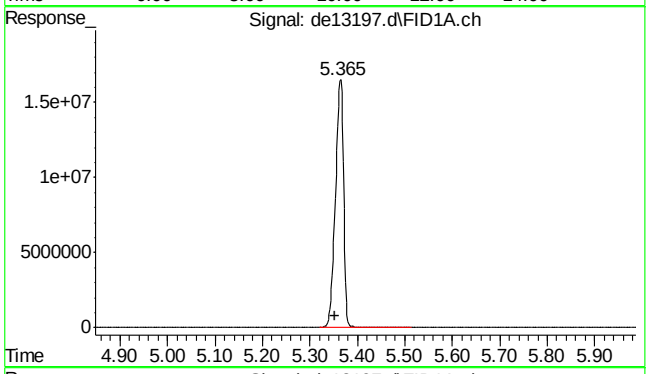
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





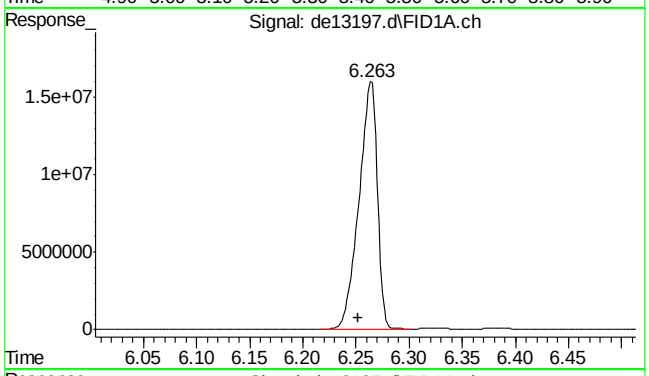
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



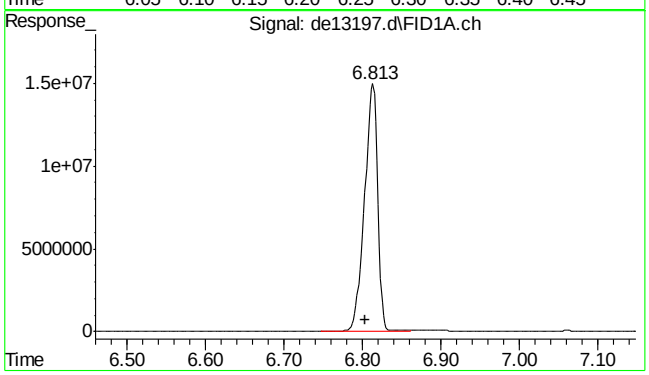
#2 naphthalene

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



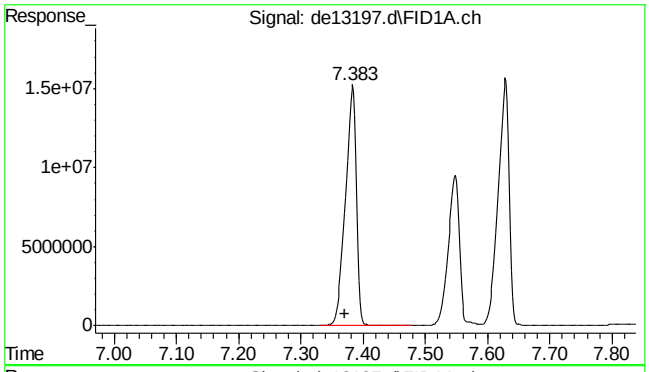
#4 2-fluorobiphenyl

R.T.: 6.813 min
Delta R.T.: 0.010 min
Response: 17171697
Conc: 185.15 µg/ml

9.5.7

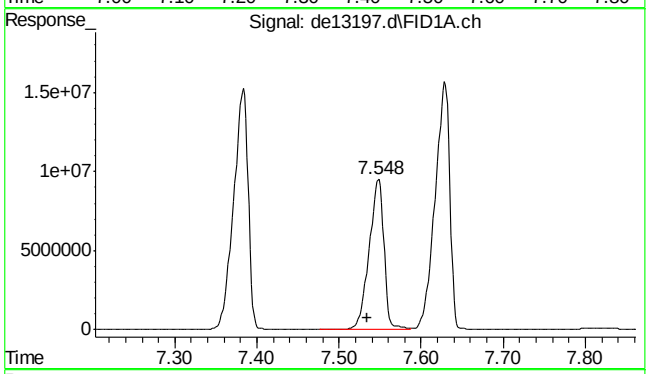
9

SGS ACCUTEST MC45678



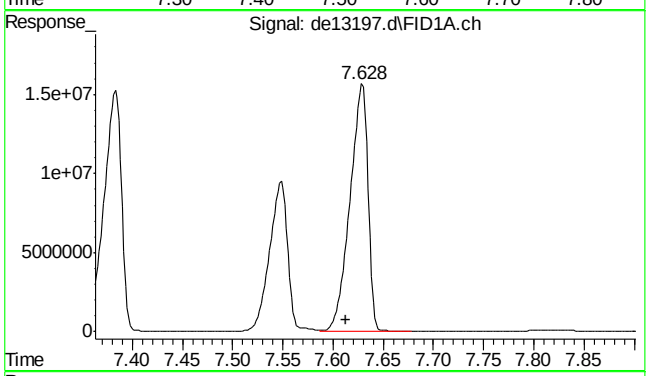
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



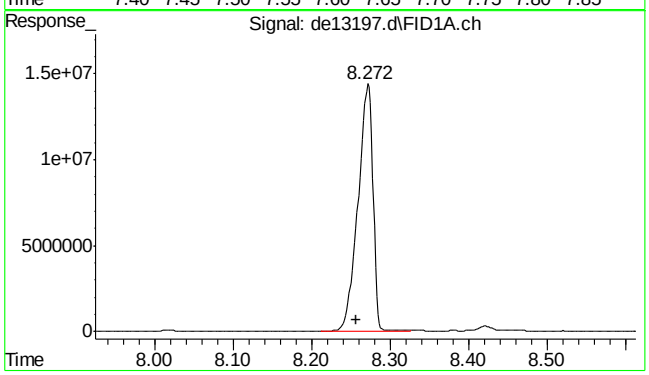
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



#7 acenaphthene

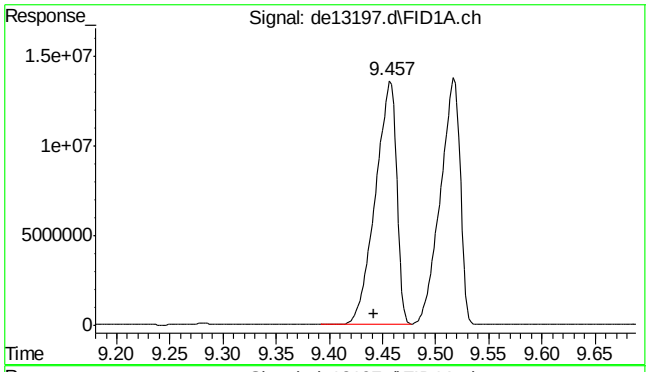
R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



#8 fluorene

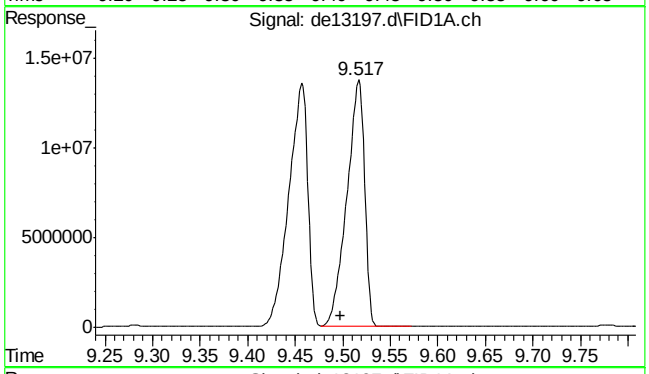
R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml

SGS ACCUTEST MC45678



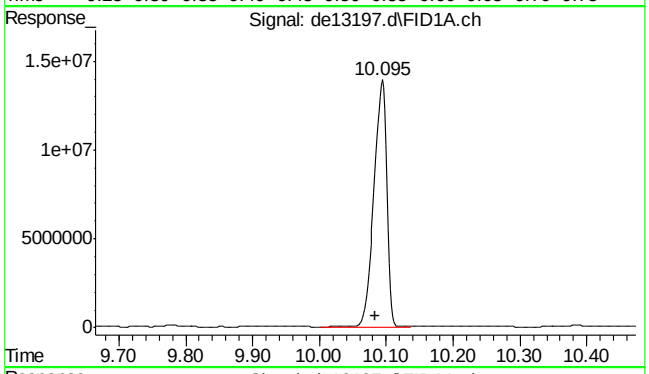
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



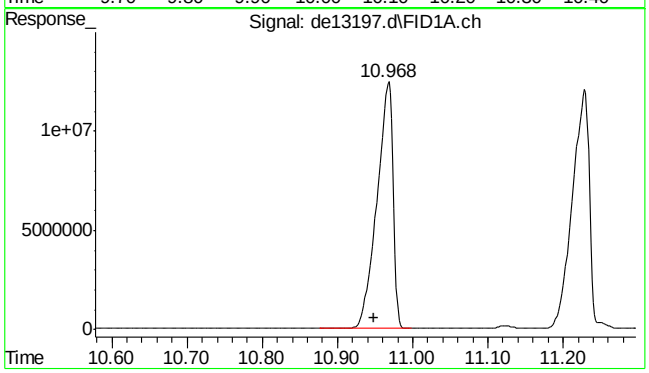
#10 anthracene

R.T.: 9.517 min
Delta R.T.: 0.019 min
Response: 17945874
Conc: 184.82 µg/ml



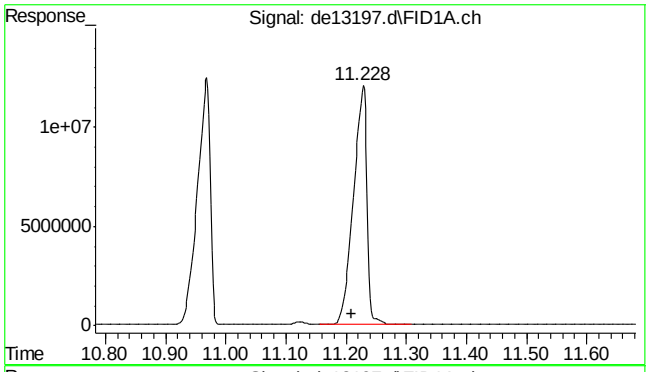
#11 o-terphenyl

R.T.: 10.095 min
Delta R.T.: 0.012 min
Response: 18995194
Conc: 184.43 µg/ml



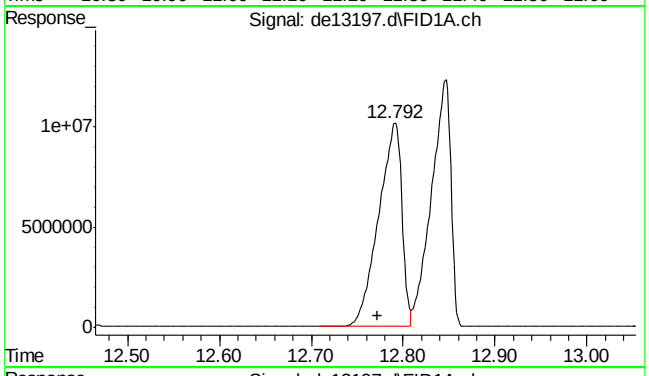
#12 fluoranthene

R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml



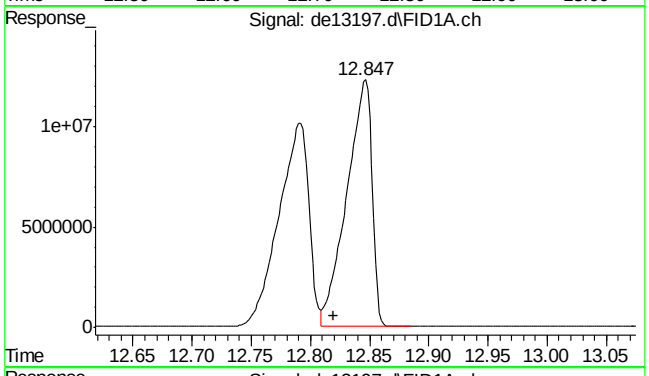
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



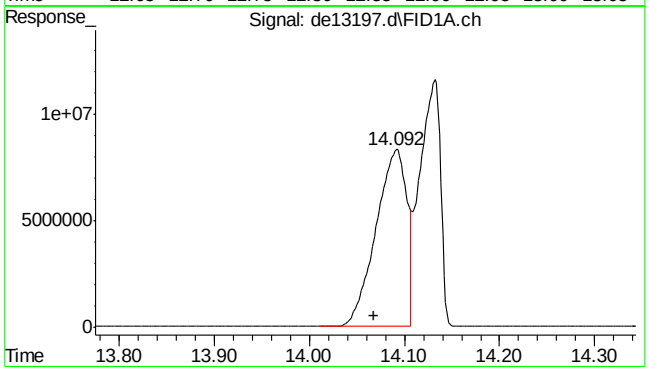
#14 benzo(a)anthracene

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

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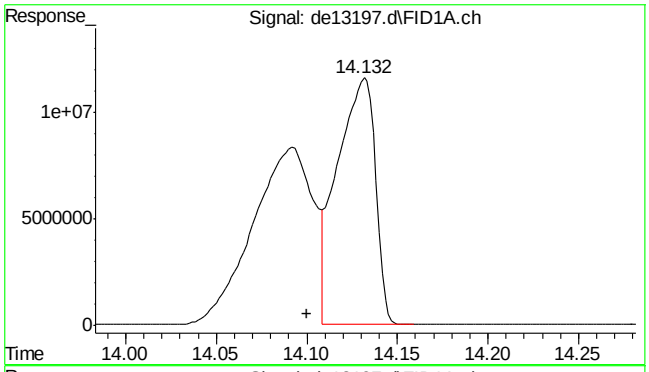
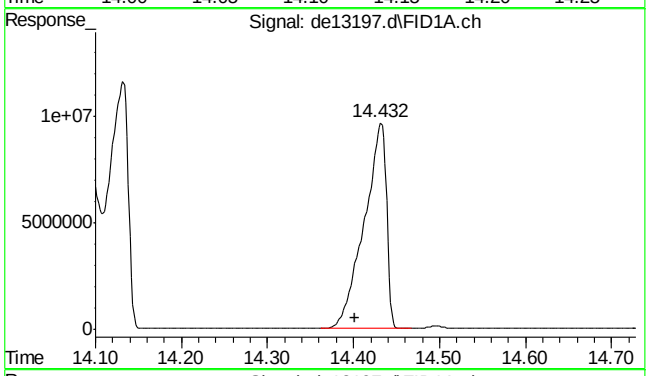


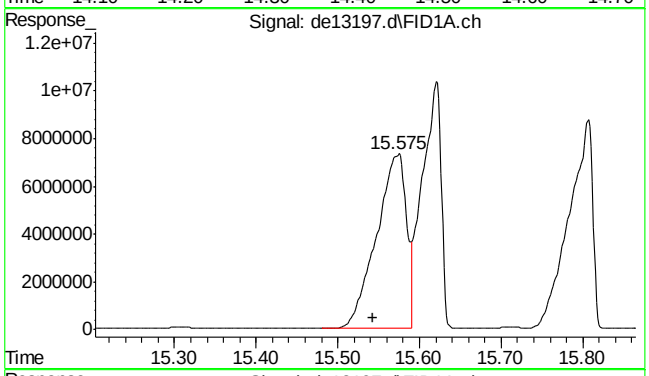
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



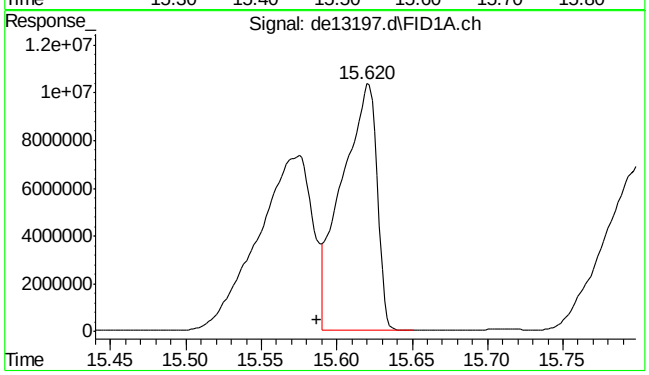
#18 benzo(a)pyrene

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



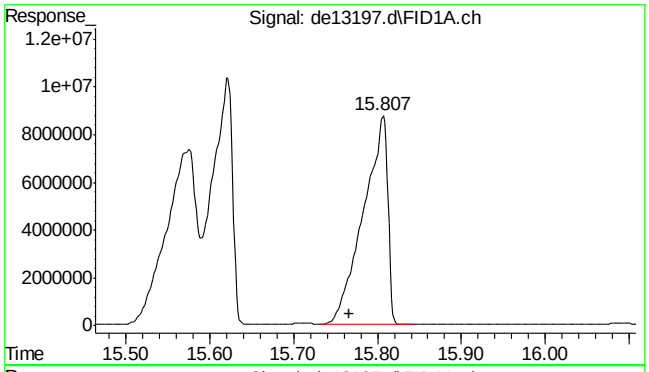
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m

9.5.7

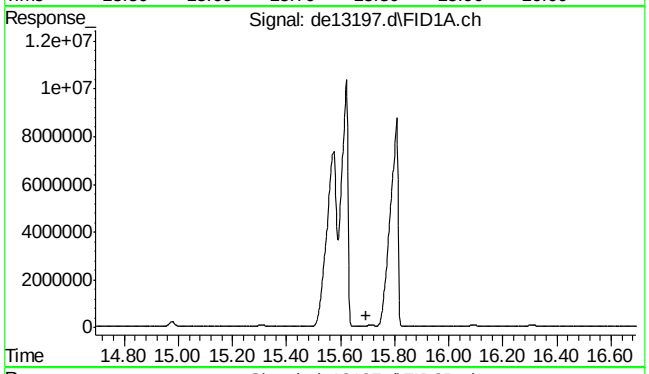
9

SGS ACCUTEST MC45678



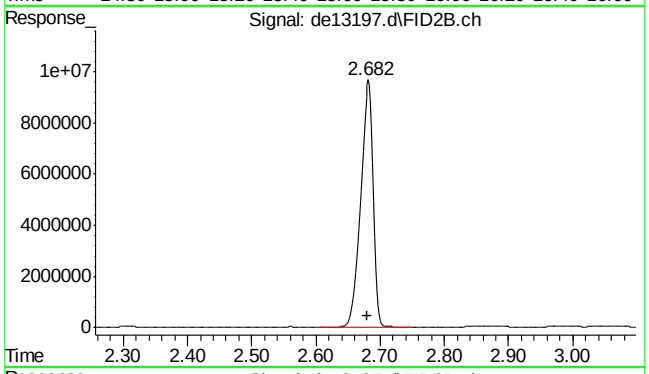
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



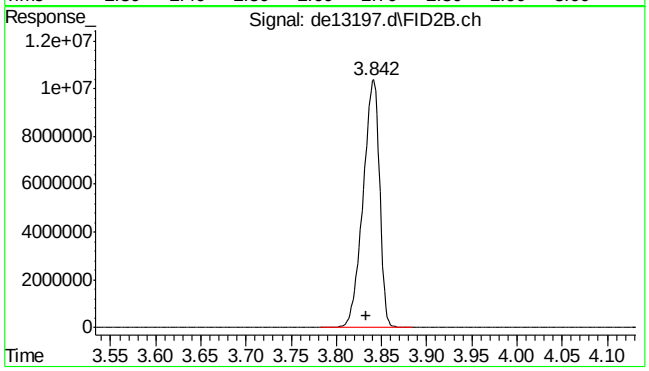
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 13093571
Conc: 173.26 µg/ml m



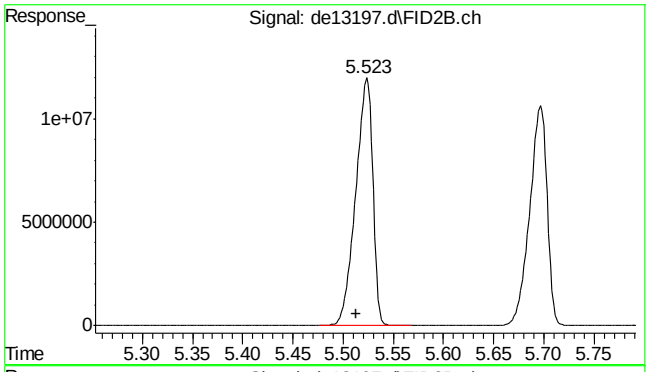
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.5.7

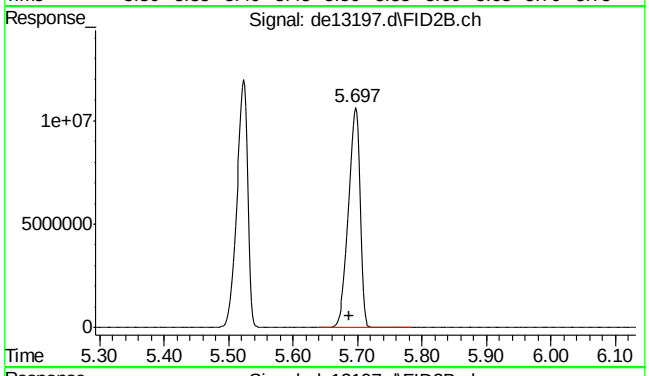
9

SGS ACCUTEST MC45678



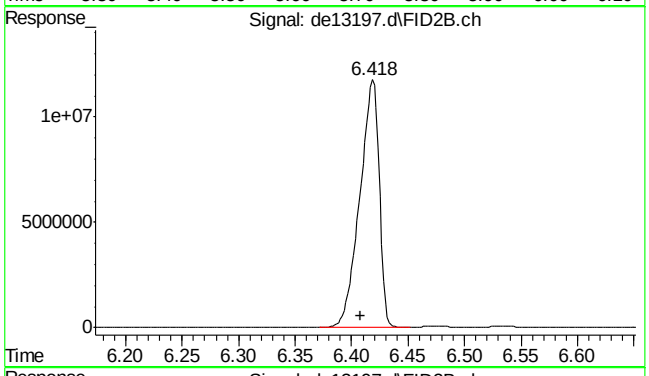
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



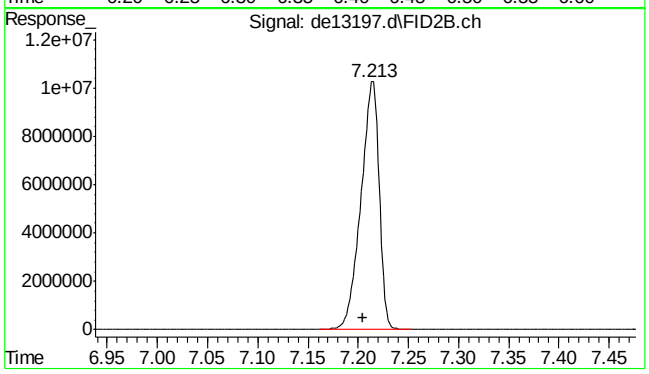
#28 c-12

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



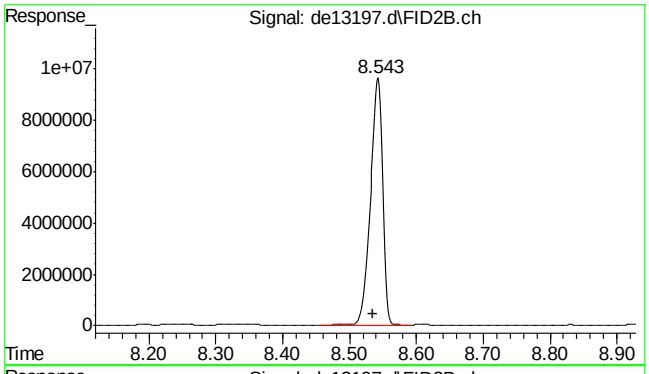
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.5.7

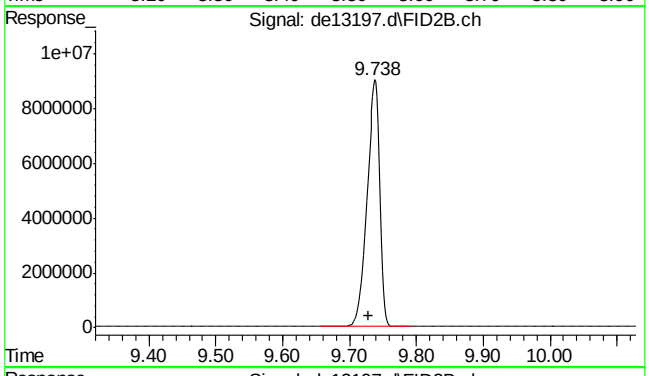
9

SGS ACCUTEST MC45678



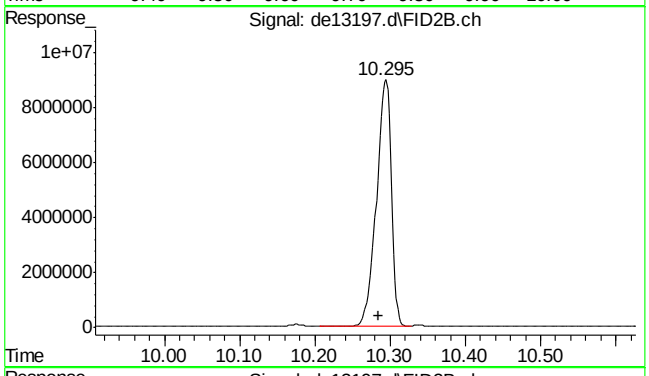
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



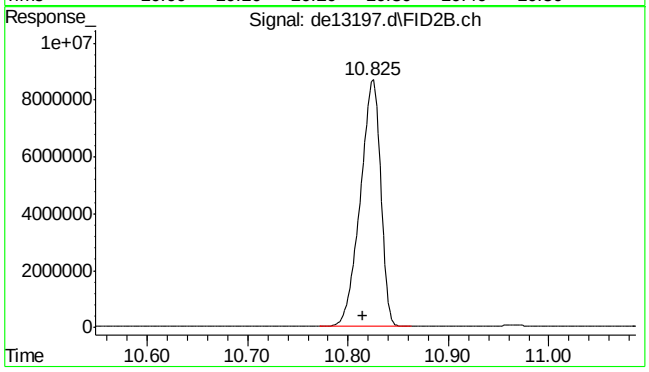
#32 c-18

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



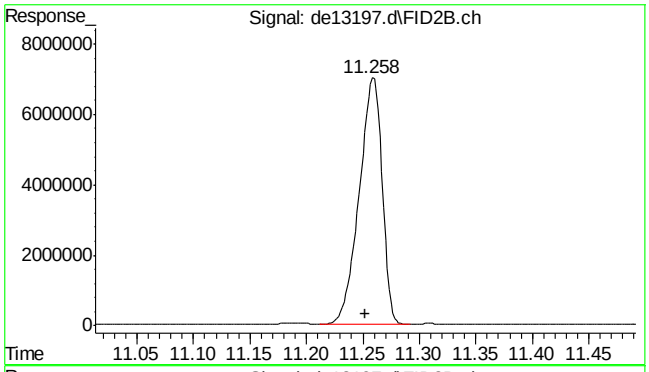
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.5.7

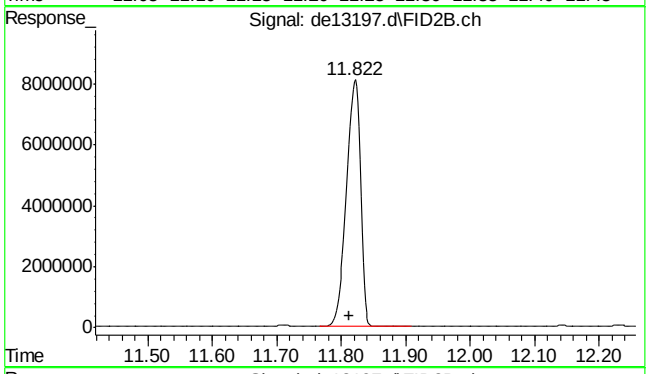
9

SGS ACCUTEST MC45678



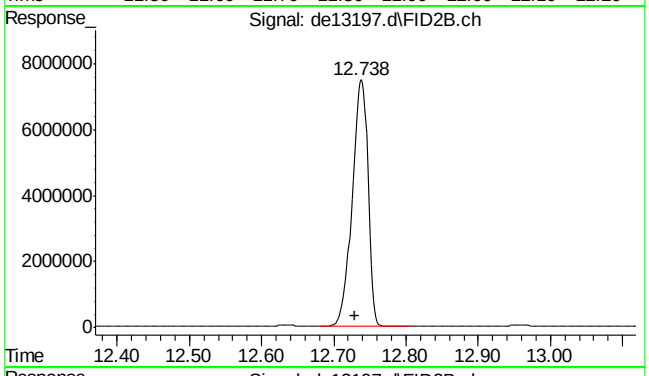
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



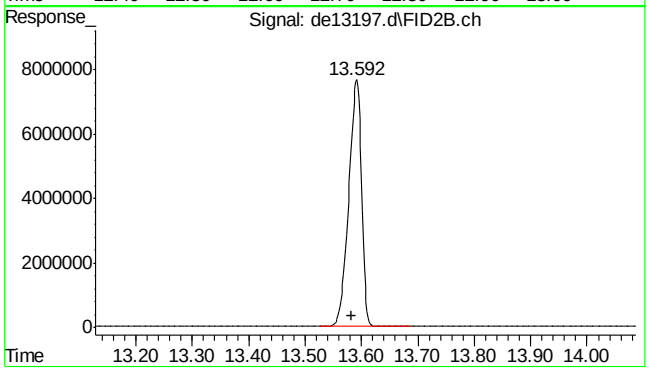
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



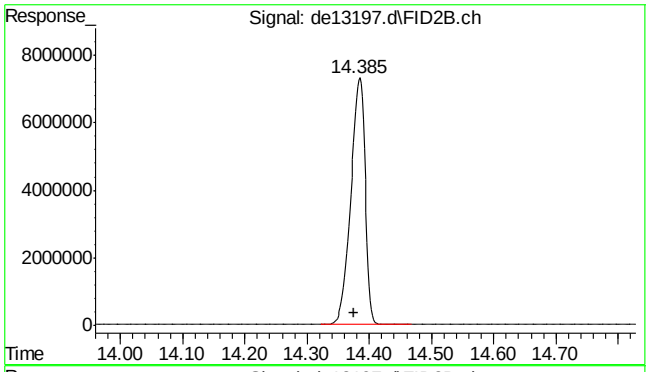
#37 c-24

R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



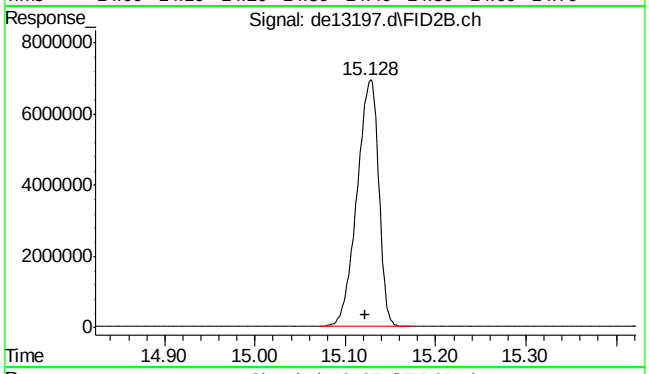
#38 c-26

R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml



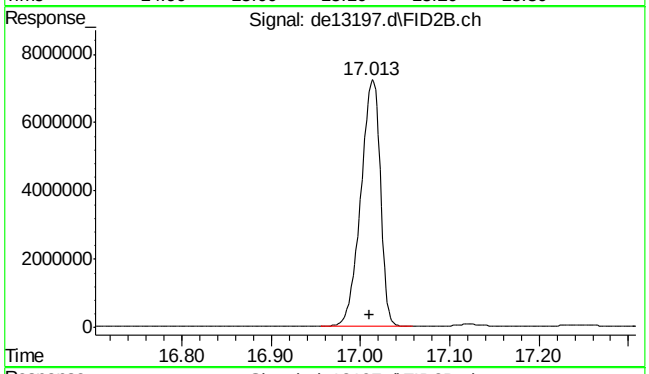
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



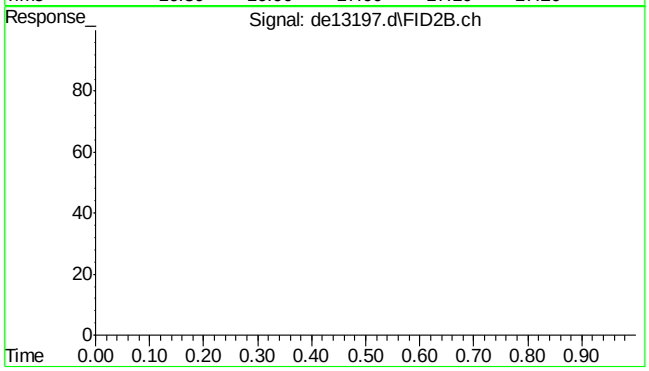
#40 c-30

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



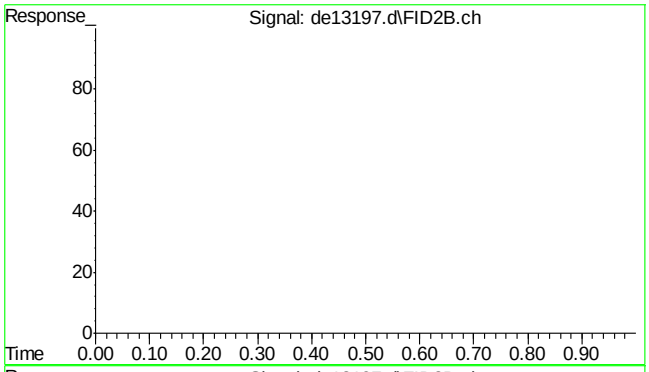
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.7

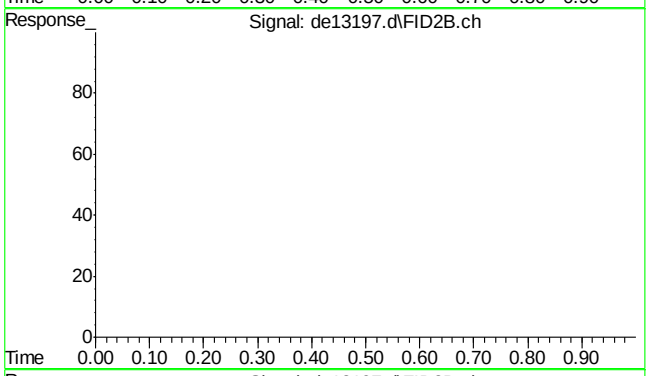
9

SGS ACCUTEST MC45678



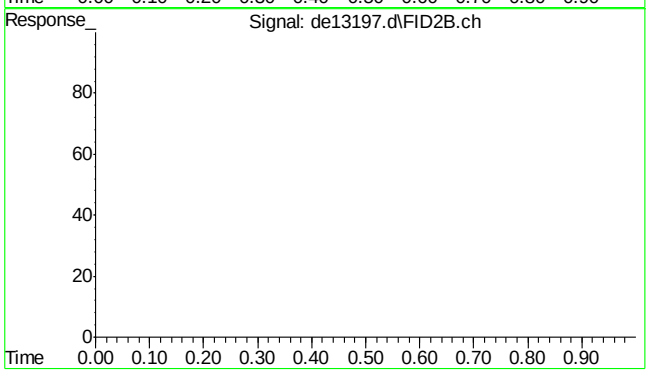
#43 bht

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

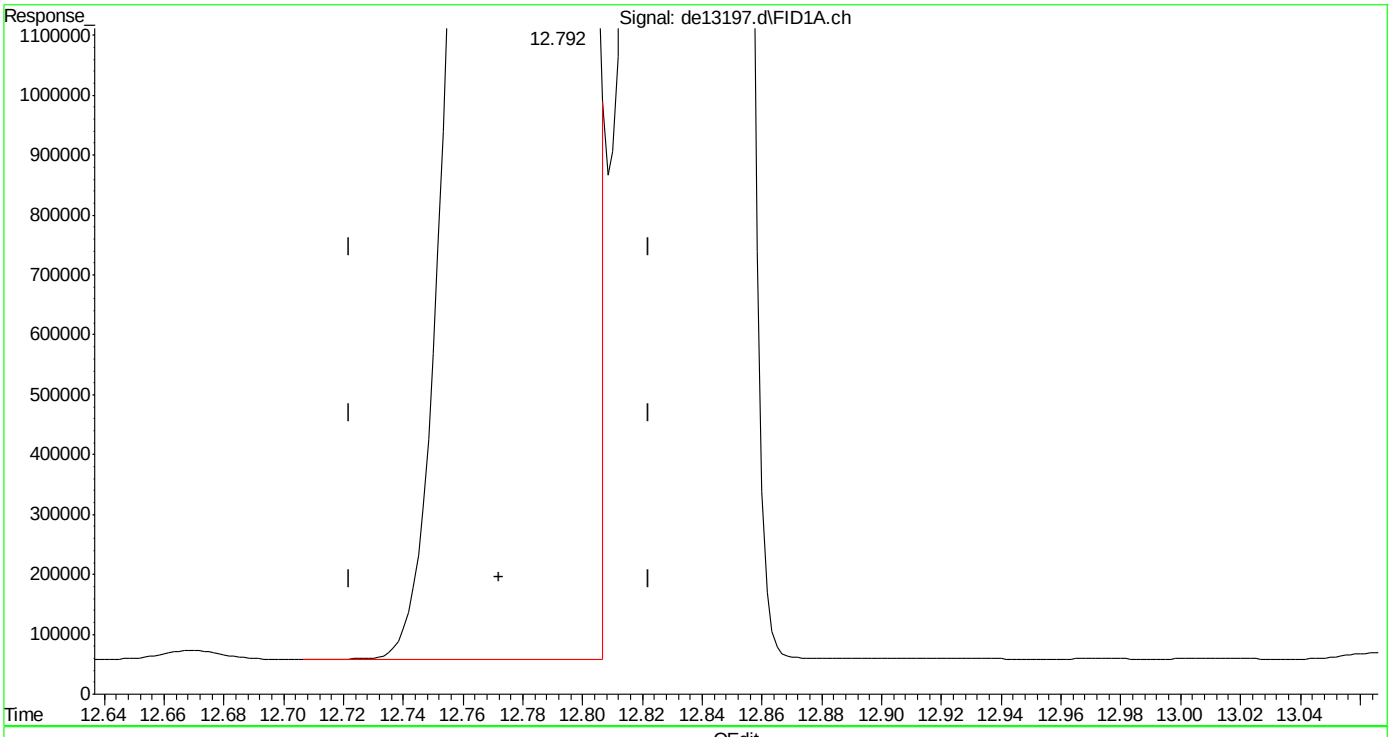
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

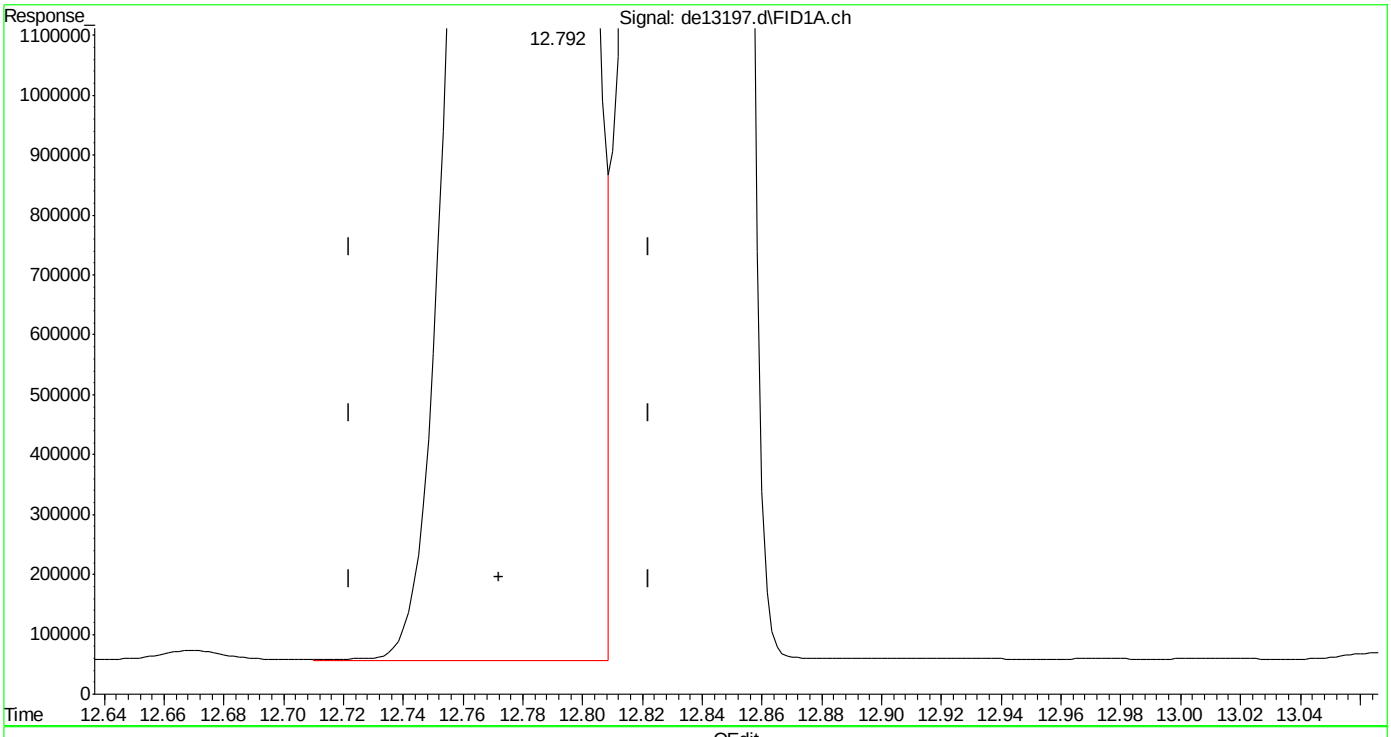
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:14 2016

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

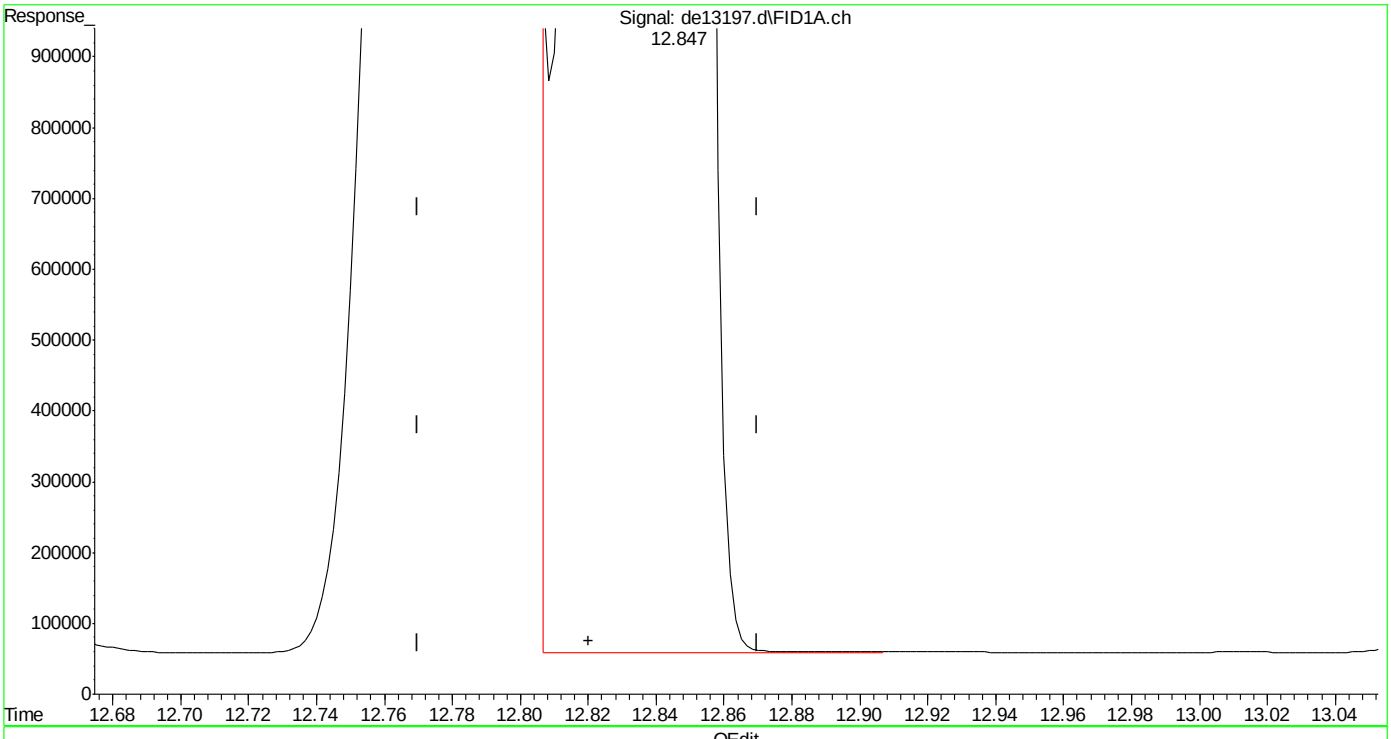
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

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

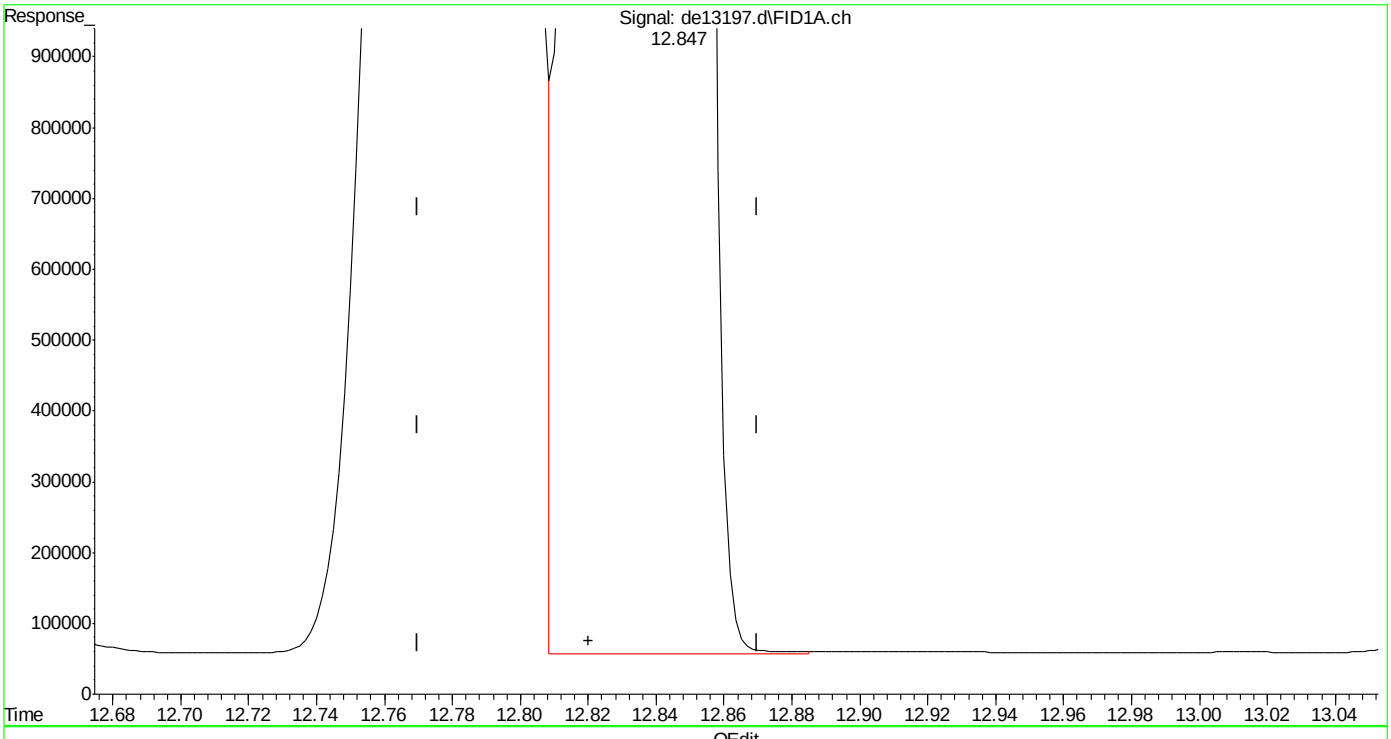
EPH160204M.M Fri Feb 05 11:03:41 2016 Page: 1

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 :



(15) chrysene
12.847min 184.428 µg/ml m
response 18069681

(+) = Expected Retention Time

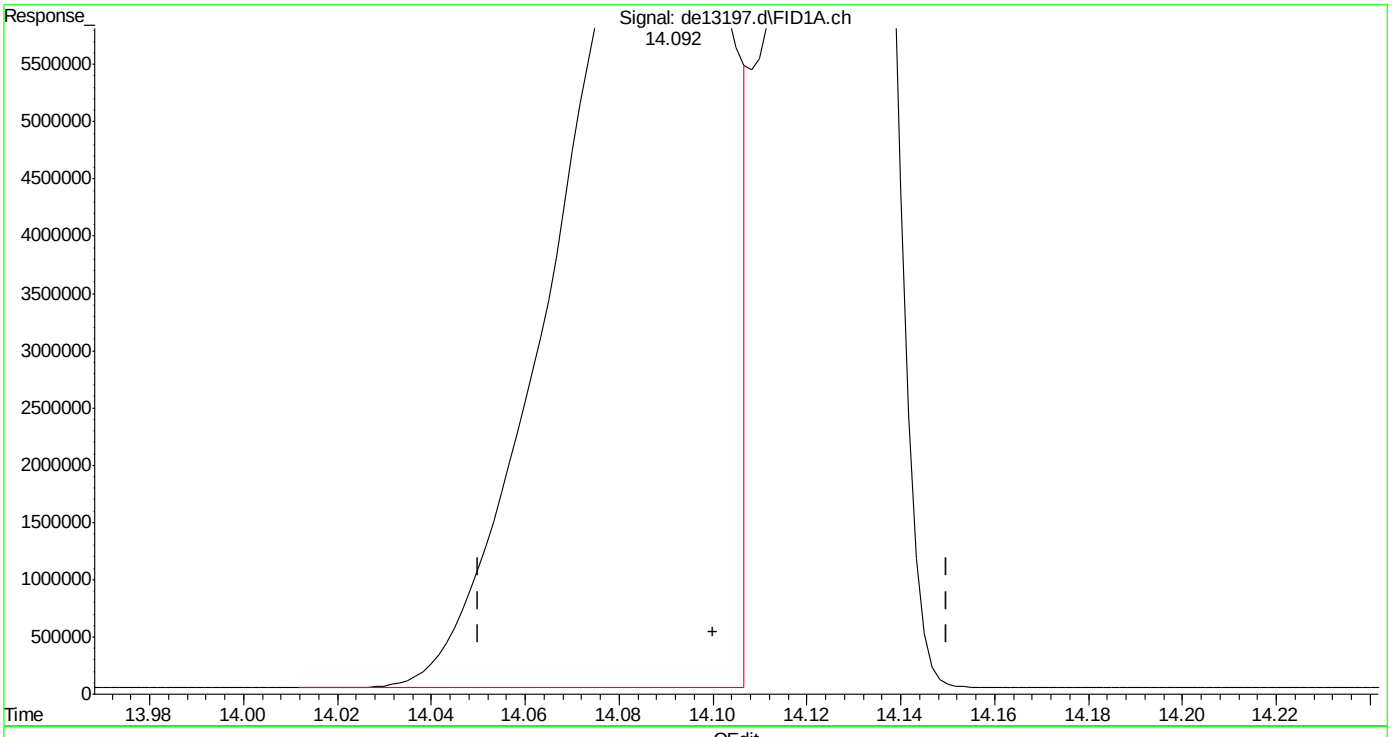
SGS ACCUTEST MC45678

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

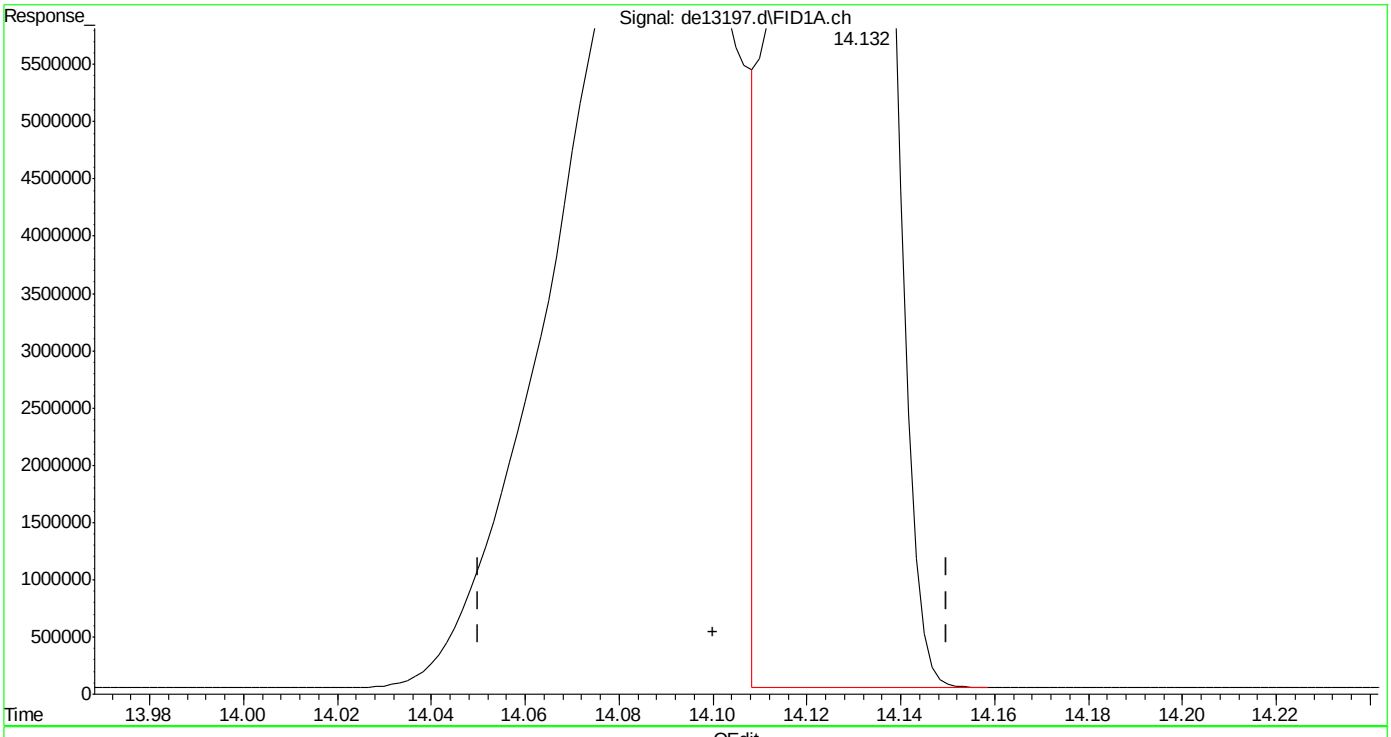
SGS ACCUTEST MC45678

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

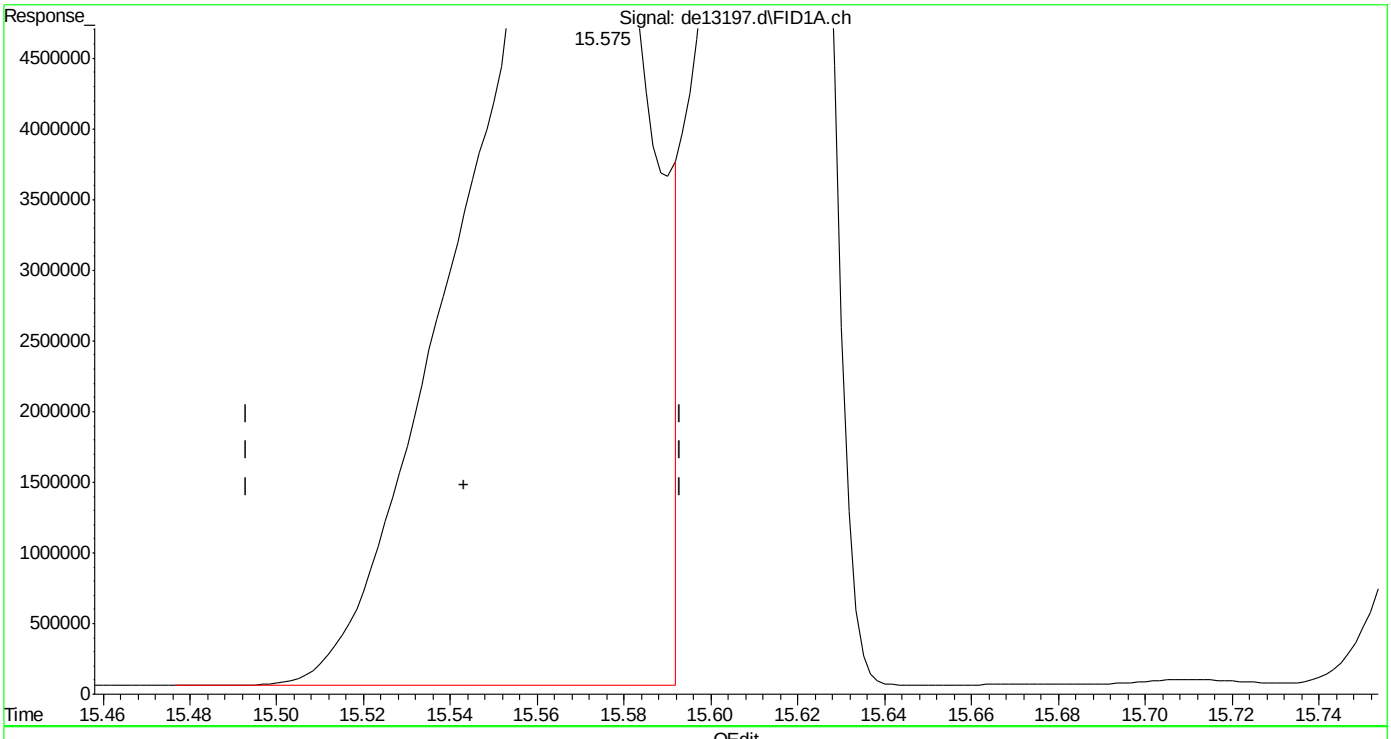
SGS ACCUTEST MC45678

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

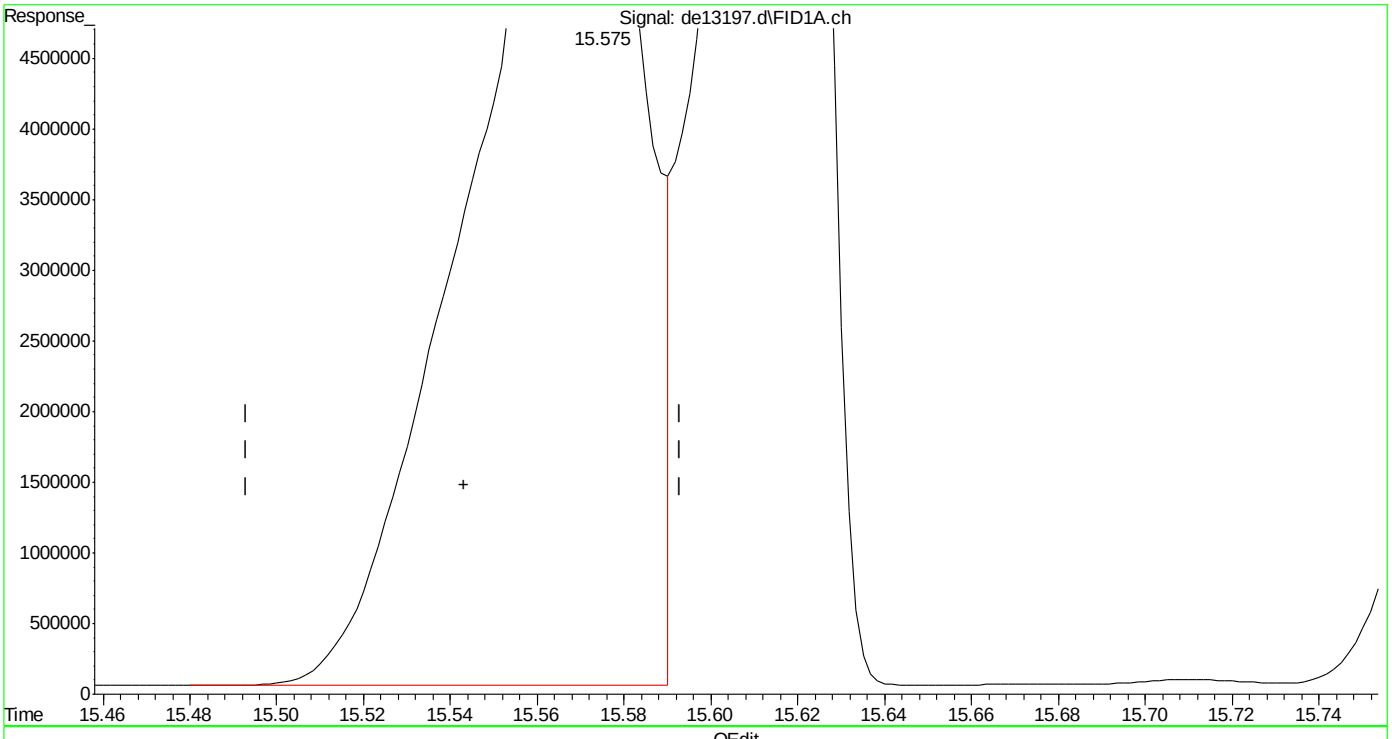
SGS ACCUTEST MC45678

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

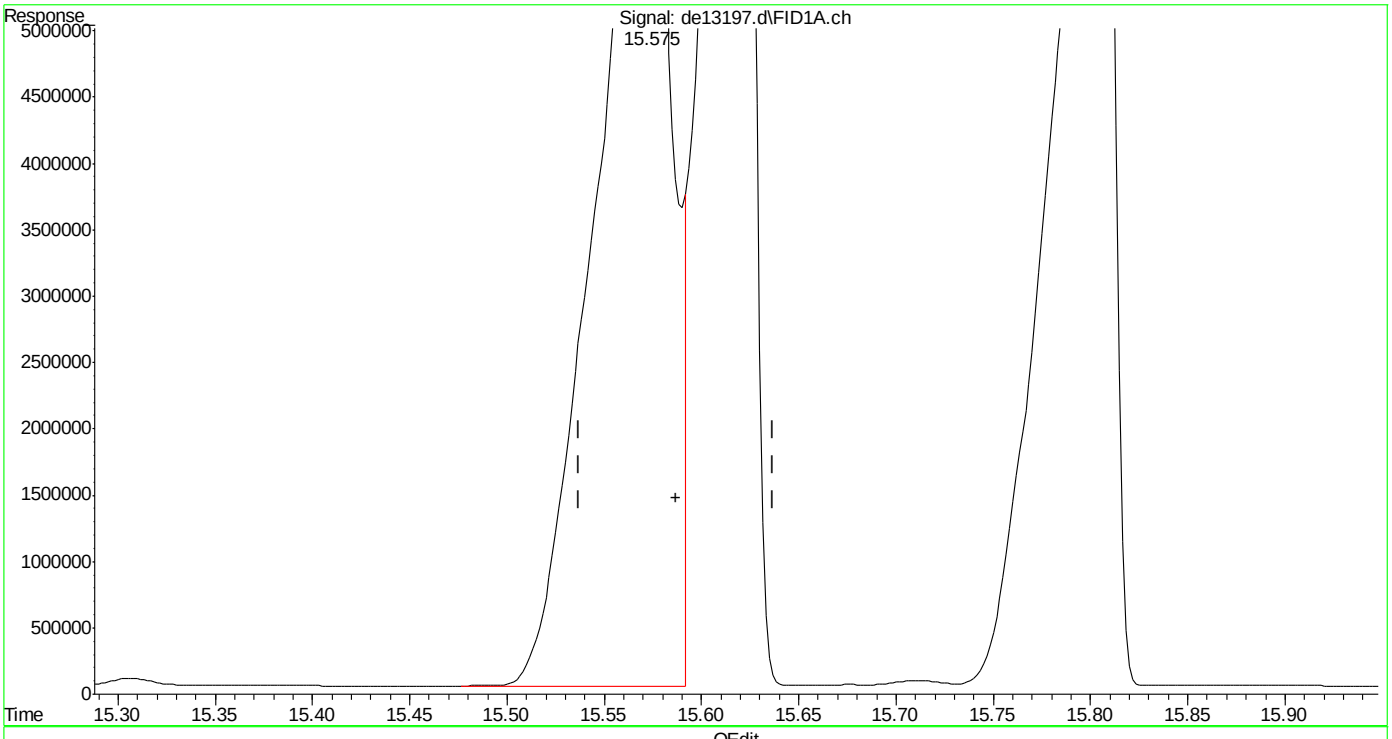
EPH160204M.M Fri Feb 05 11:05:03 2016 Page: 1

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

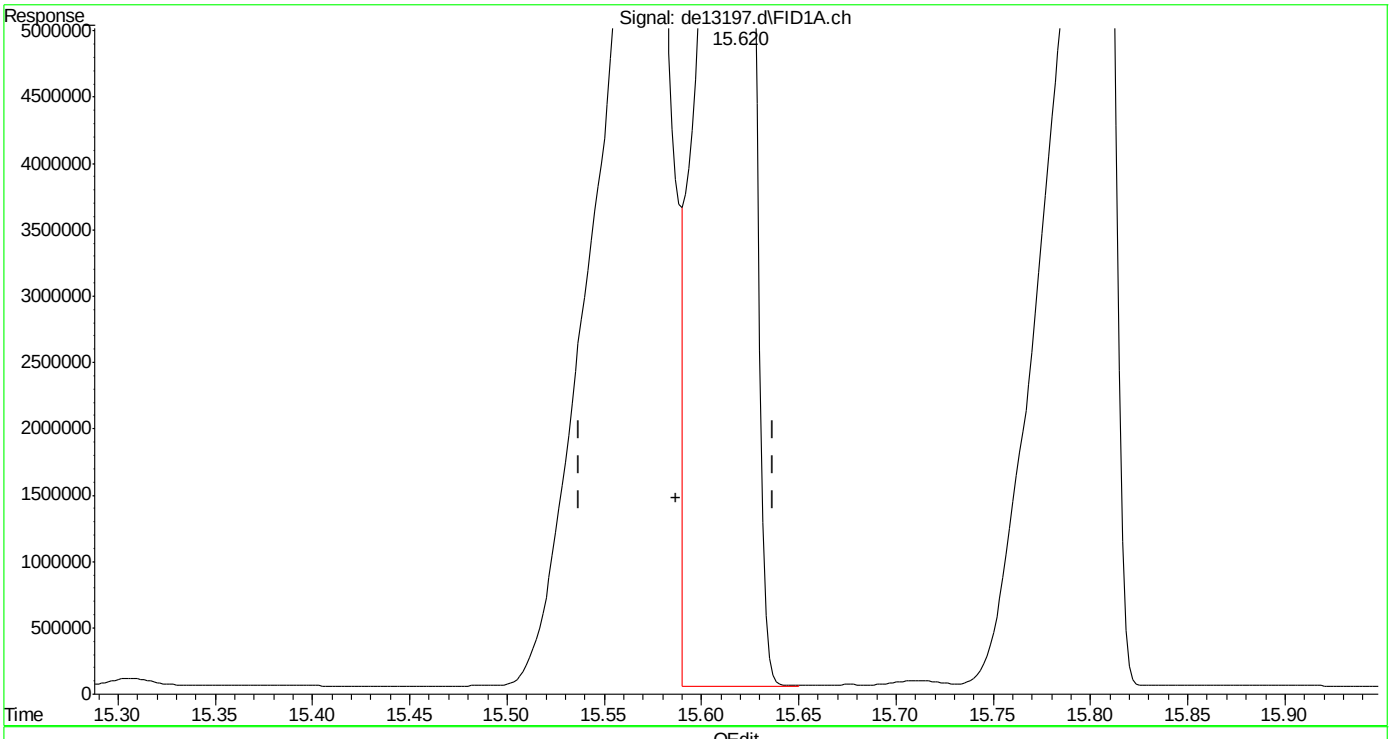
SGS ACCUTEST MC45678

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

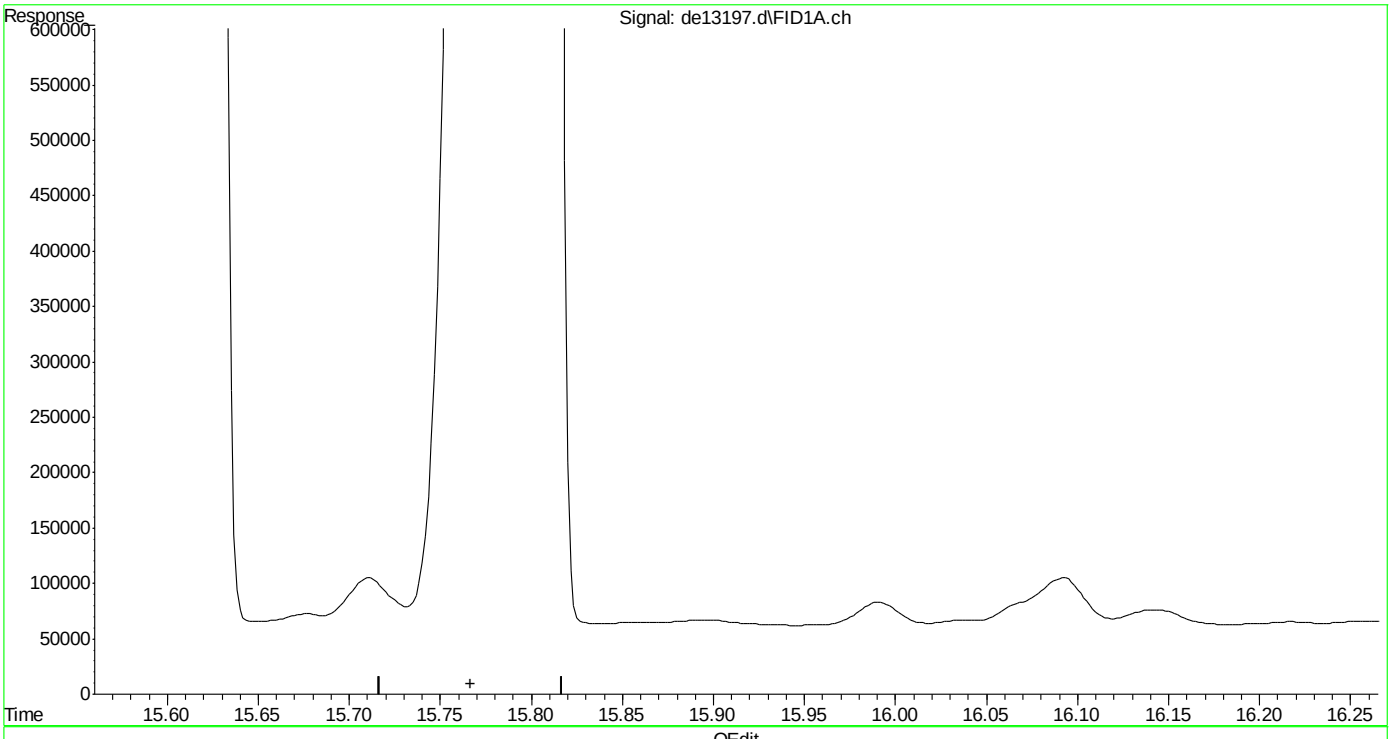
SGS ACCUTEST MC45678

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

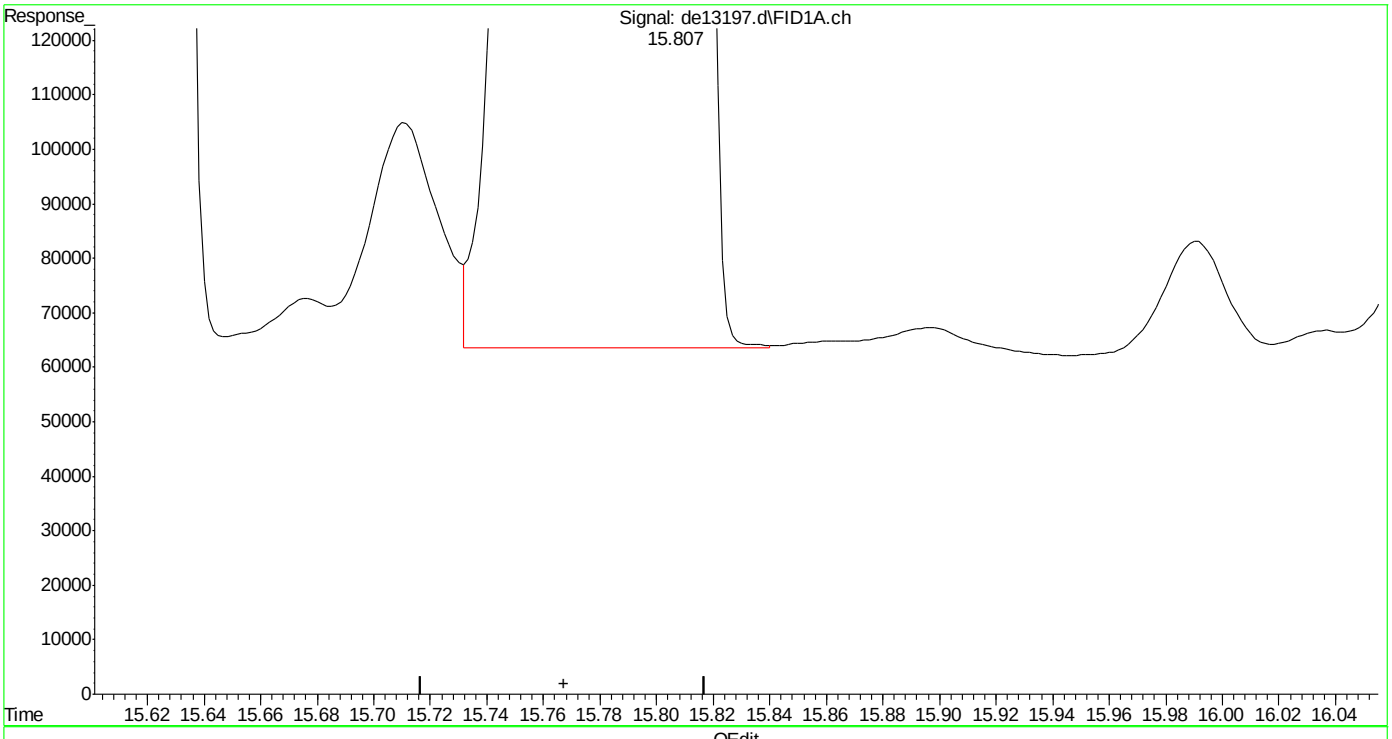
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(21) benzo(ghi)perylene
15.807min 188.129 µg/ml m
response 17523714

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:54 2016

SGS ACCUTEST MC45678

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

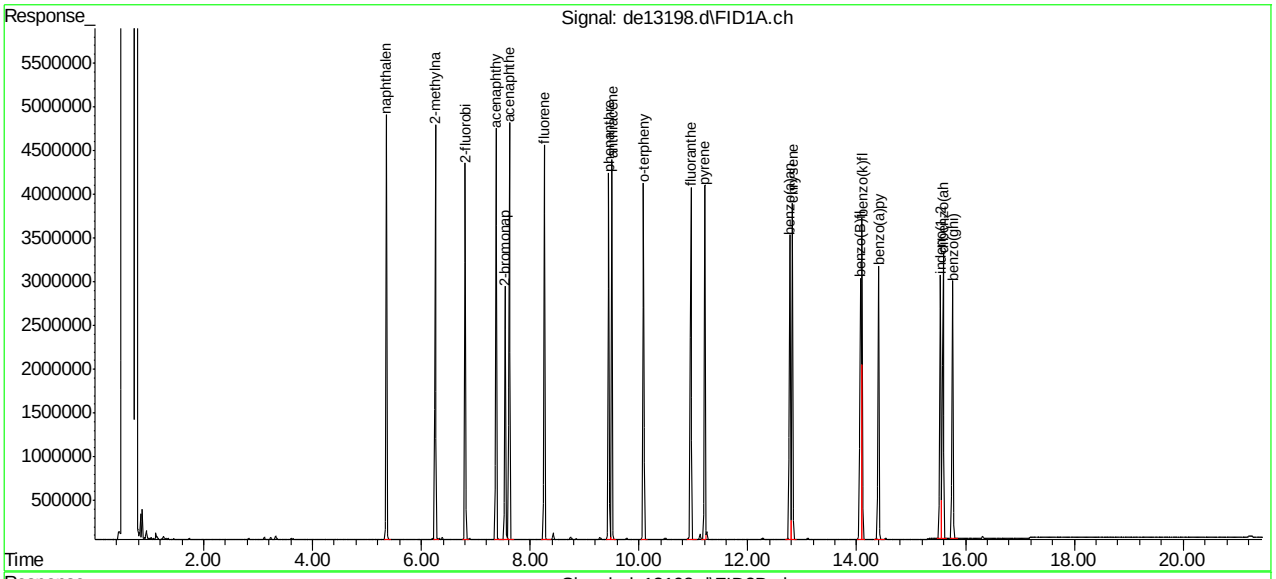
SGS ACCUTEST MC45678

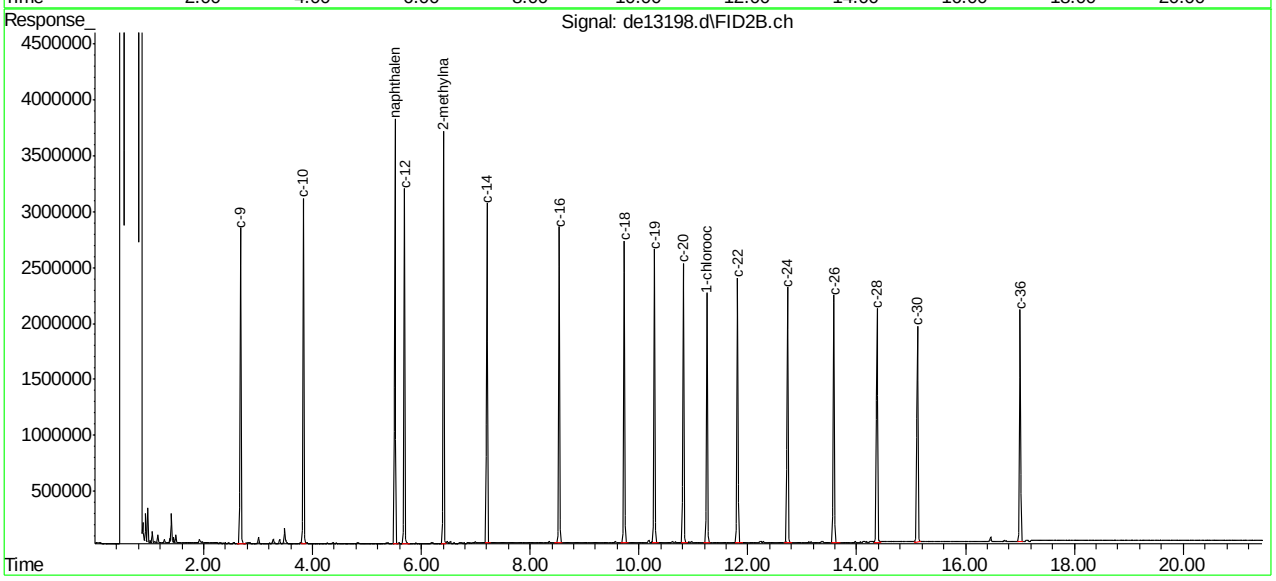
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

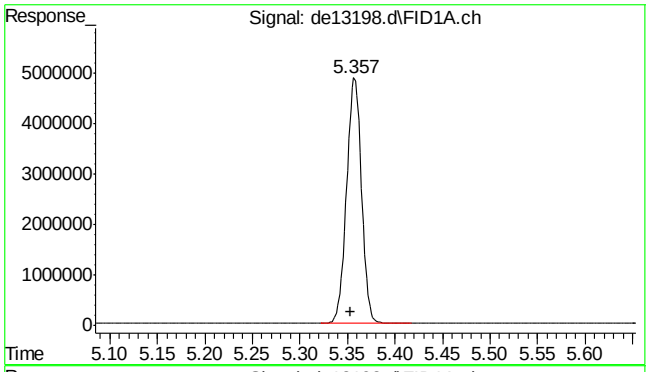
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



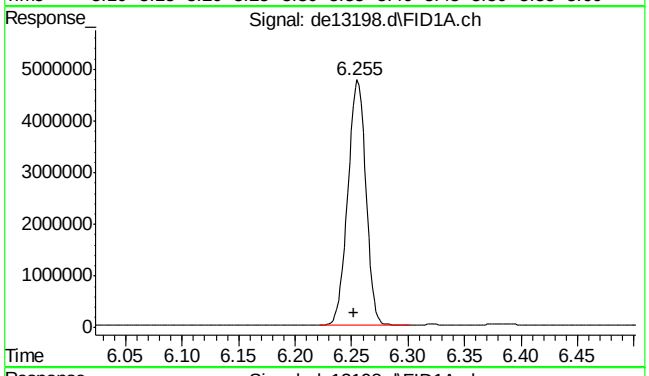


EPH160204W.M Fri Feb 05 14:30:14 2016 Page: 3



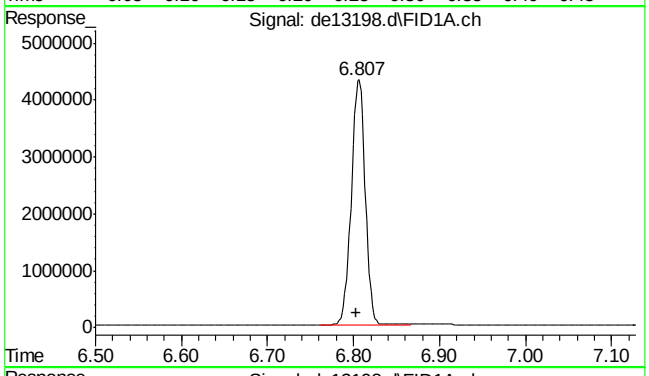
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



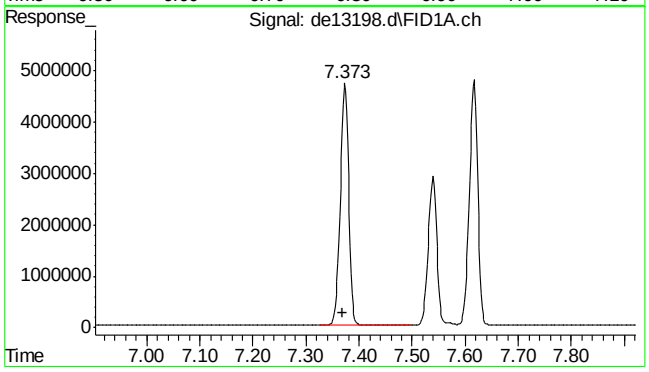
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



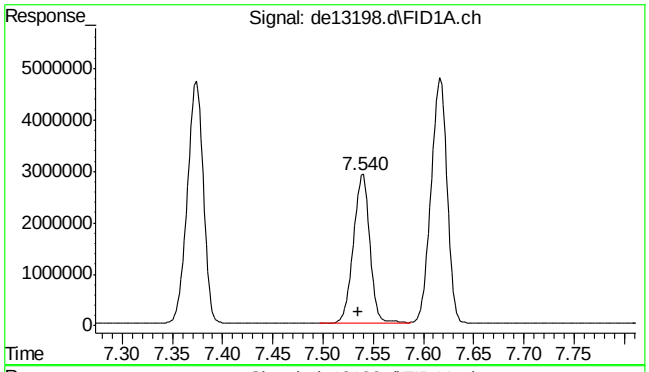
#5 acenaphthylene

R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

9.5.8

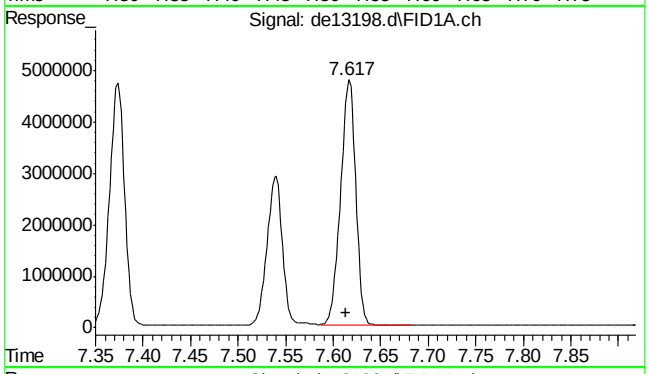
9

SGS ACCUTEST MC45678



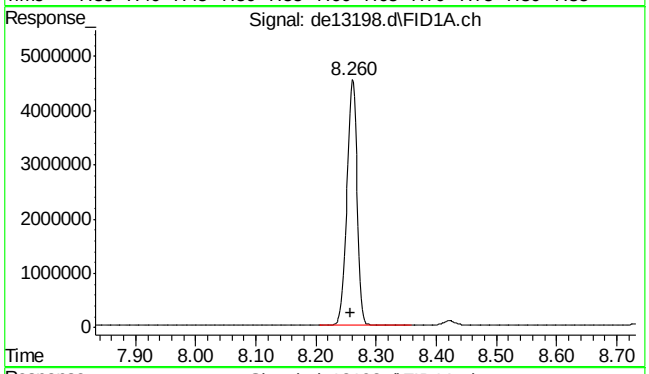
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



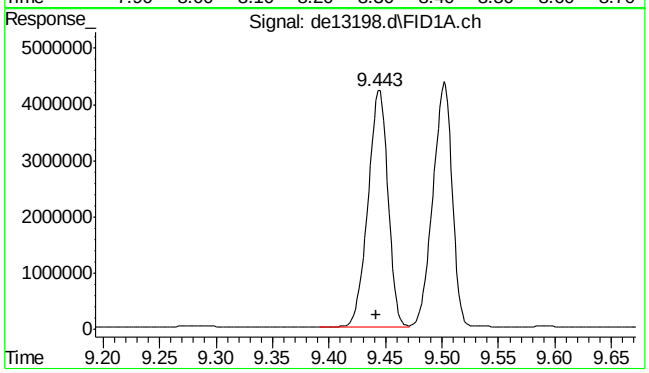
#7 acenaphthene

R.T.: 7.617 min
Delta R.T.: 0.004 min
Response: 5299977
Conc: 51.27 µg/ml



#8 fluorene

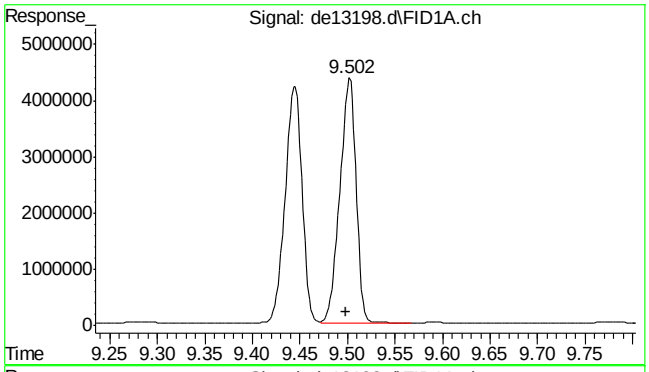
R.T.: 8.260 min
Delta R.T.: 0.003 min
Response: 5216935
Conc: 51.36 µg/ml



#9 phenanthrene

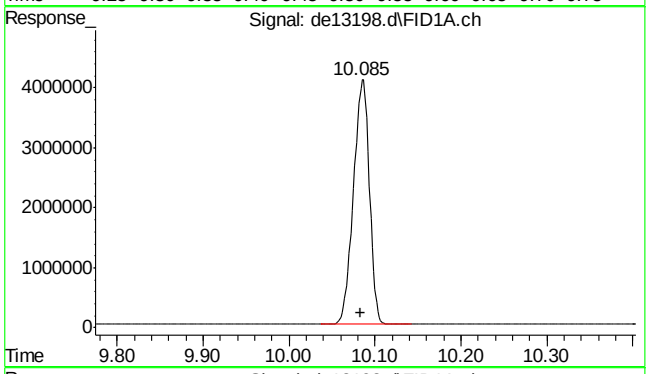
R.T.: 9.443 min
Delta R.T.: 0.001 min
Response: 5176102
Conc: 50.86 µg/ml

SGS ACCUTEST MC45678



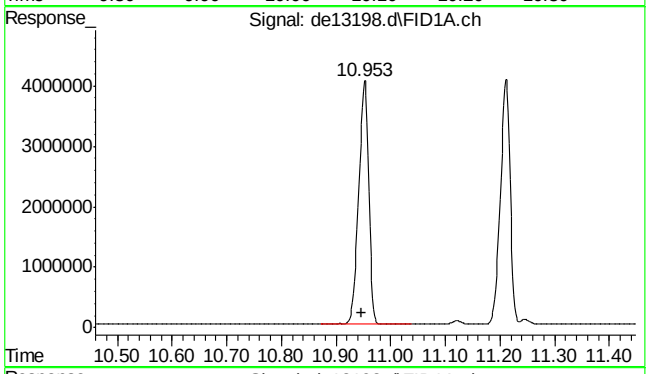
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



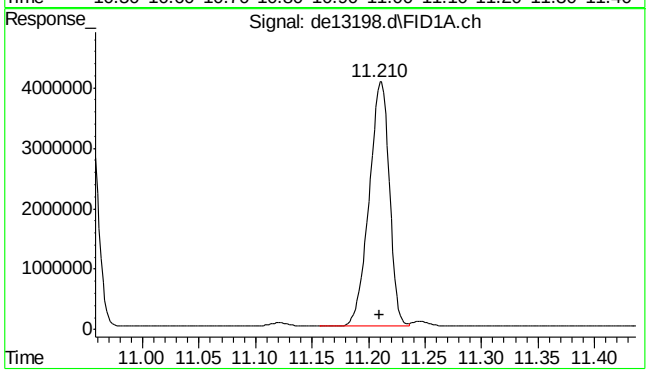
#11 o-terphenyl

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



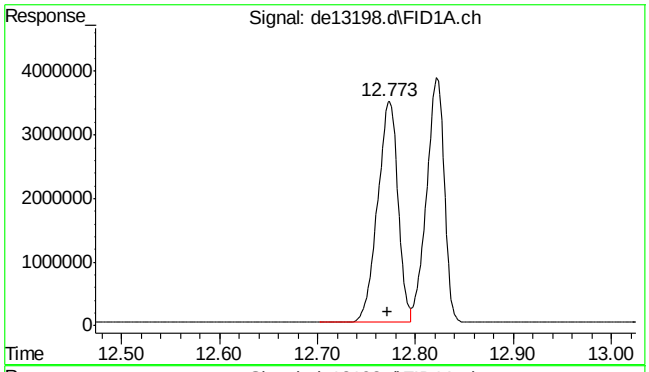
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.5.8

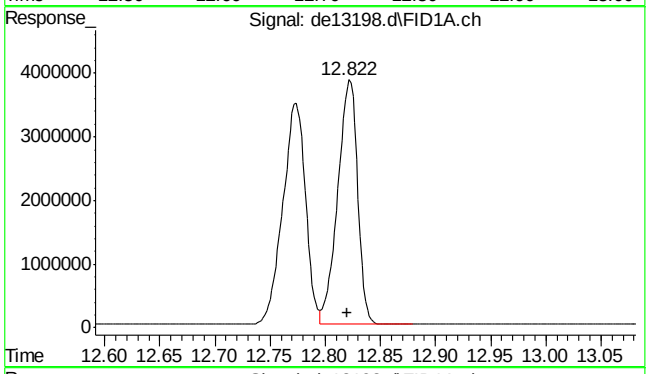
9

SGS ACCUTEST MC45678



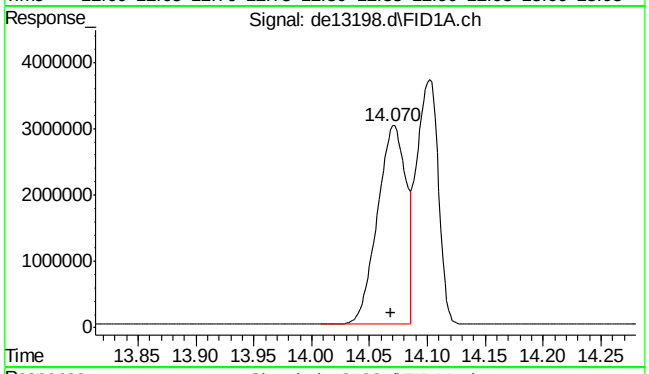
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



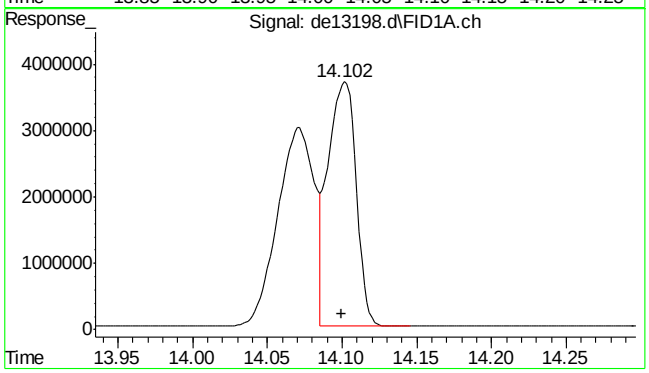
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



#16 benzo(B)fluoranthene

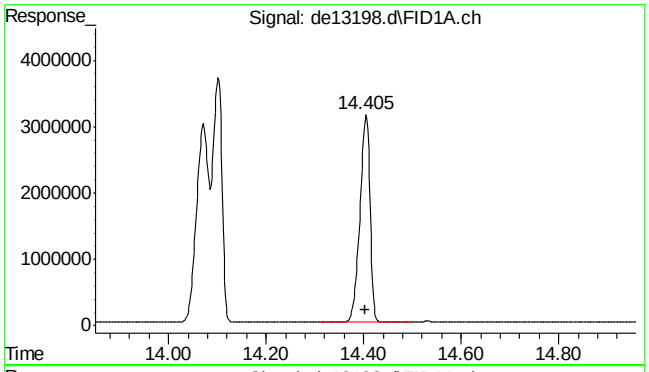
R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



#17 benzo(k)fluoranthene

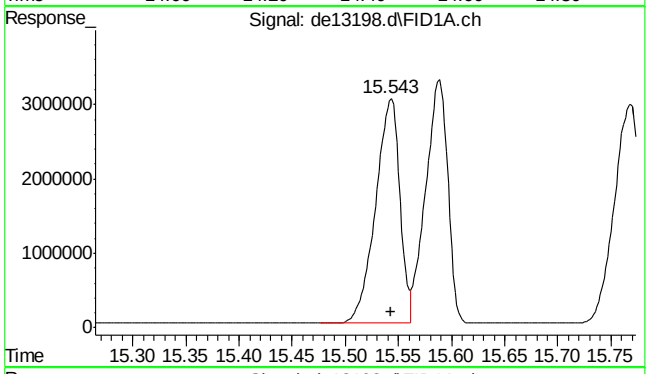
R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m

SGS ACCUTEST MC45678



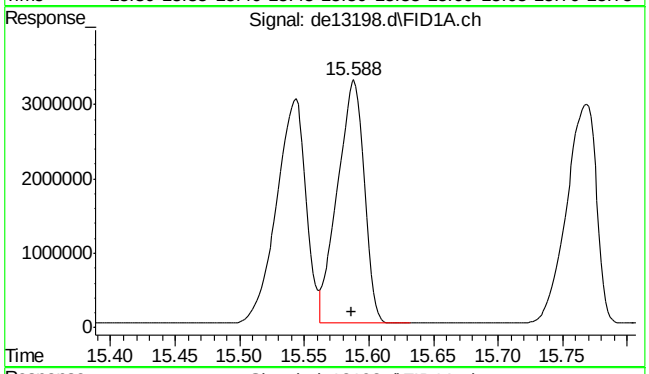
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



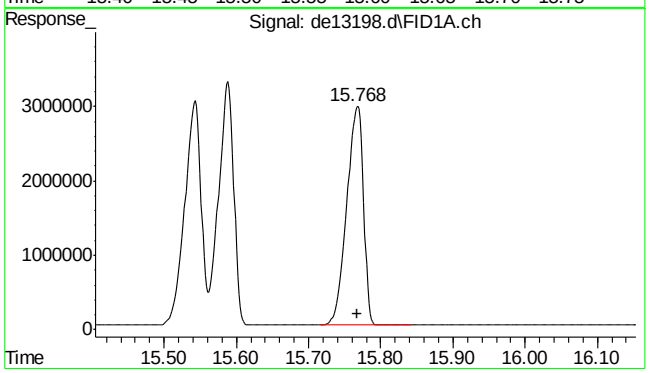
#19 indeno(1,2,3-cd)pyrene

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



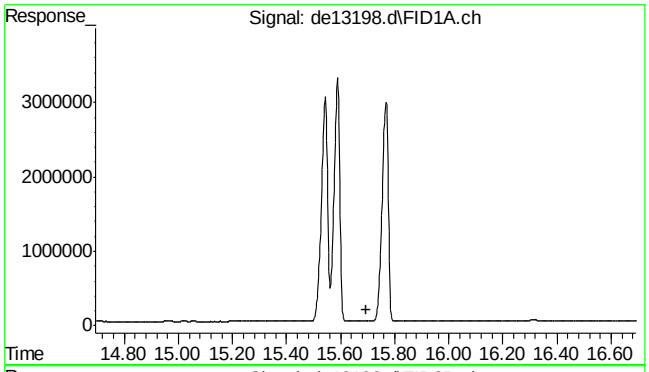
#21 benzo(ghi)perylene

R.T.: 15.768 min
Delta R.T.: 0.001 min
Response: 4765990
Conc: 51.73 µg/ml

9.5.8

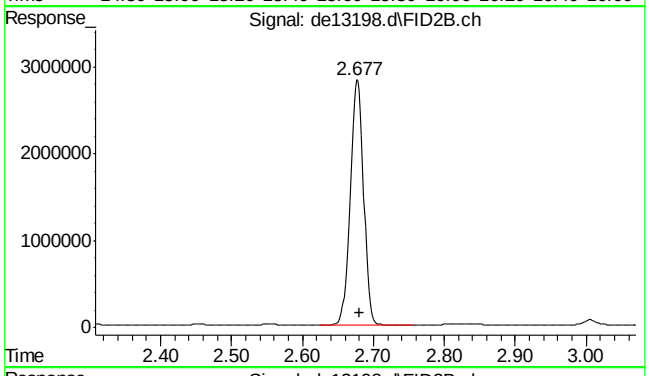
9

SGS ACCUTEST MC45678



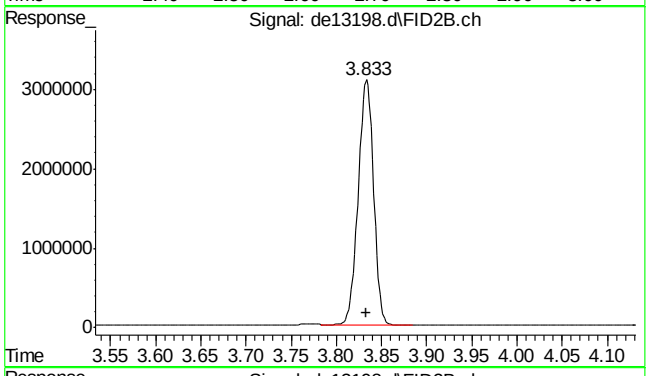
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



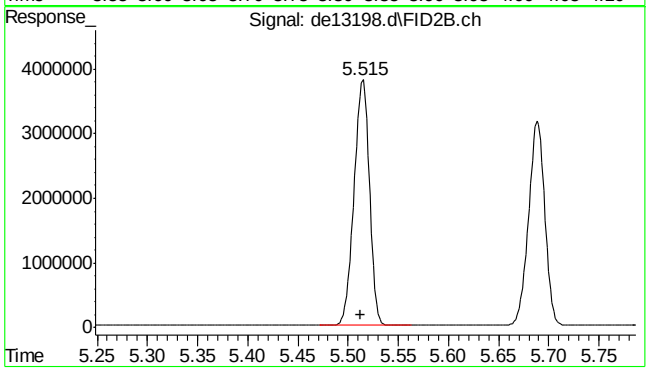
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3669865
Conc: 49.68 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3682081
Conc: 49.84 µg/ml



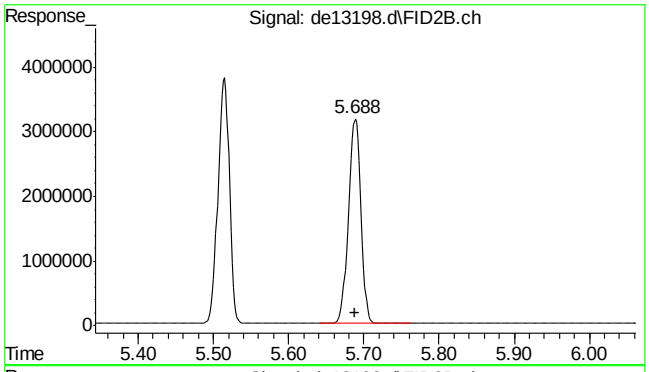
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml

9.5.8

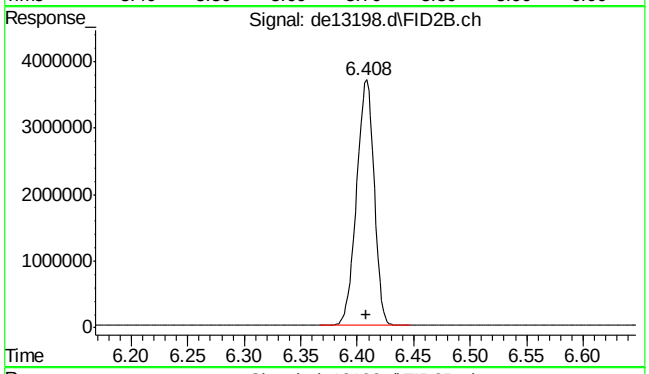
9

SGS ACCUTEST MC45678



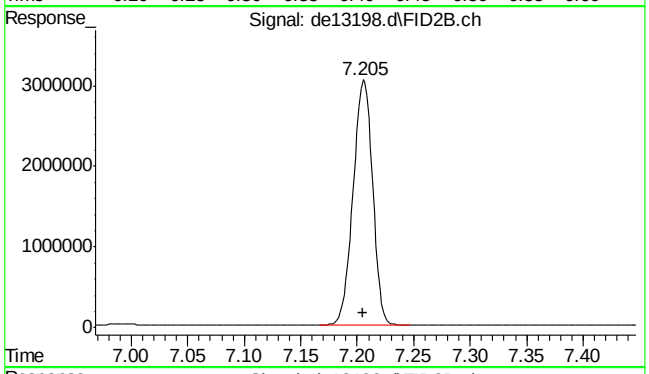
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



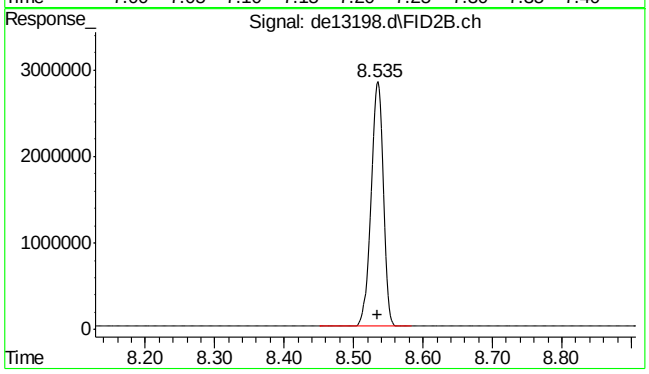
#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3954192
Conc: 49.08 µg/ml



#30 c-14

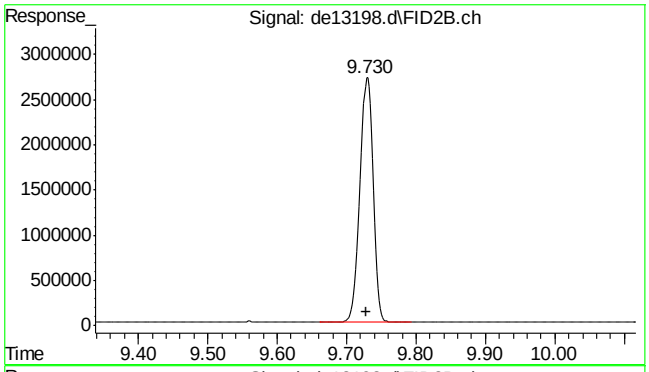
R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3605226
Conc: 48.80 µg/ml



#31 c-16

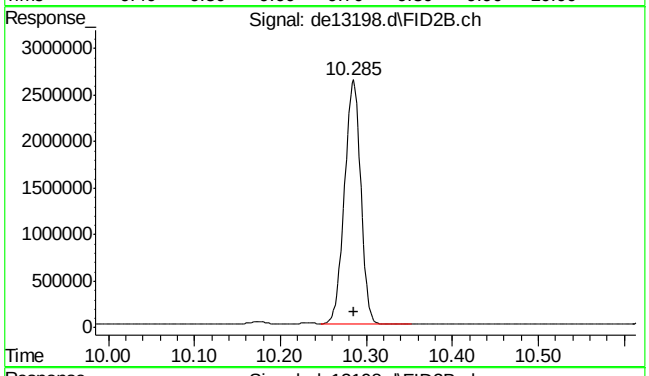
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml

SGS ACCUTEST MC45678



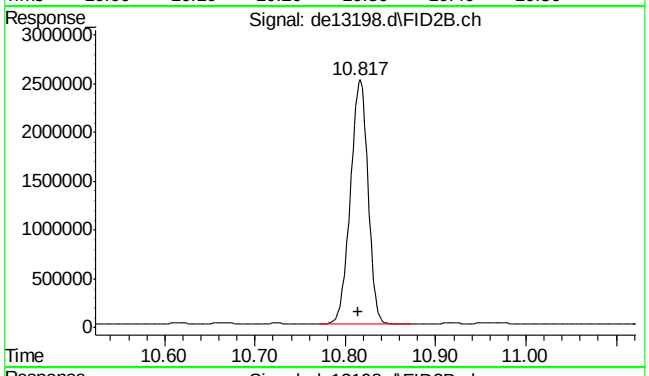
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



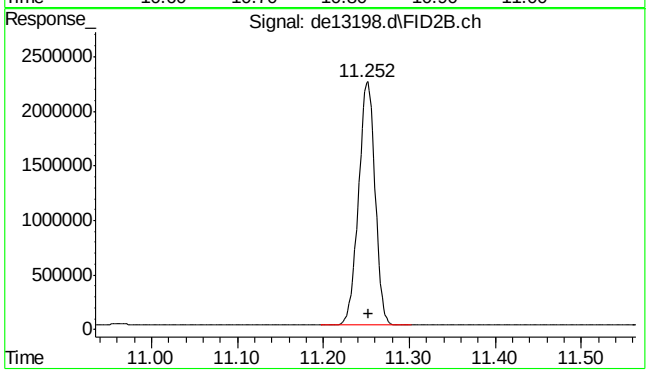
#33 c-19

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



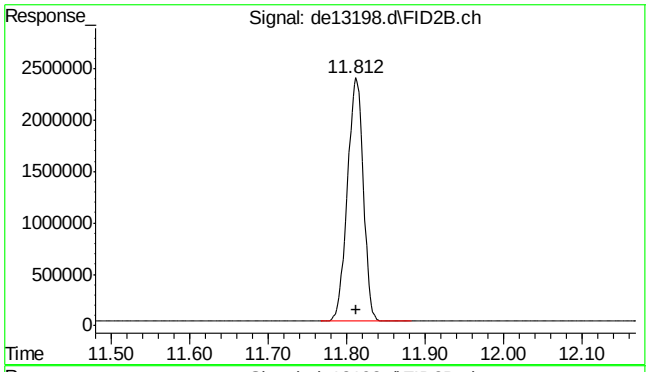
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

9.5.8

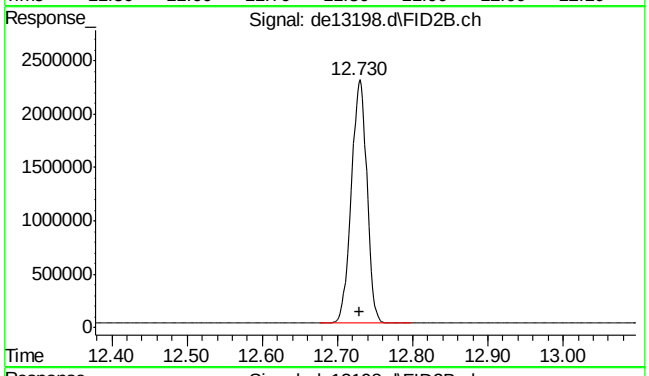
9

SGS ACCUTEST MC45678



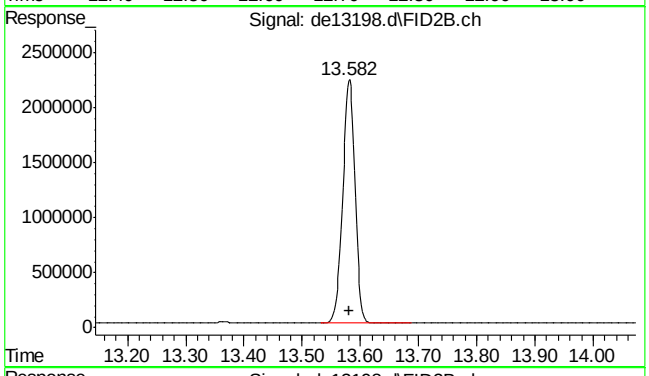
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



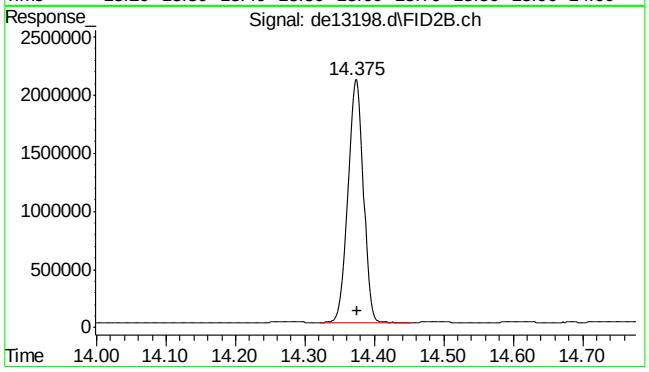
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



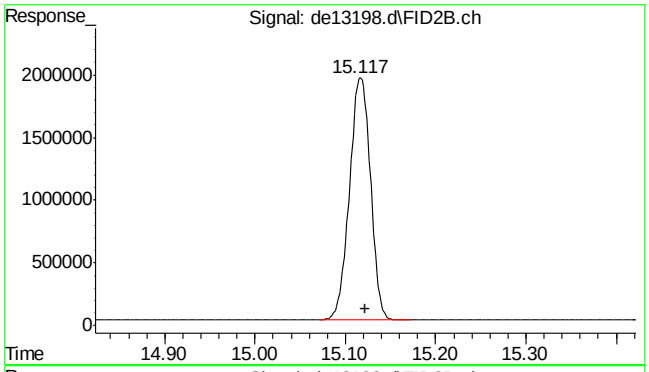
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml

9.5.8

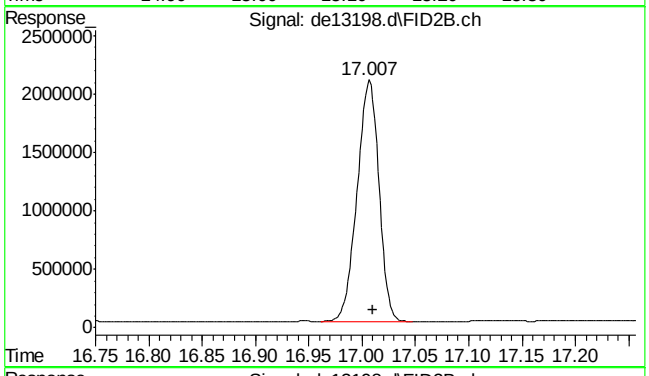
9

SGS ACCUTEST MC45678



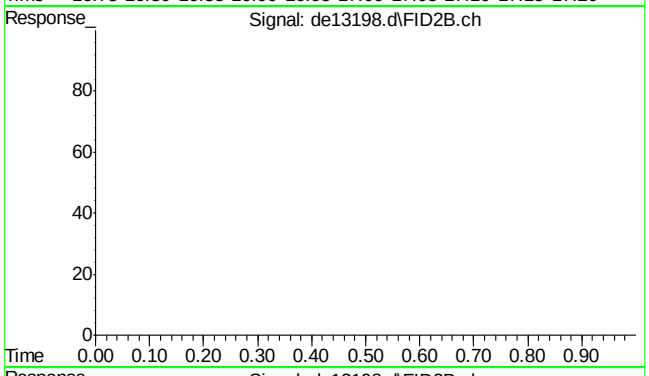
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



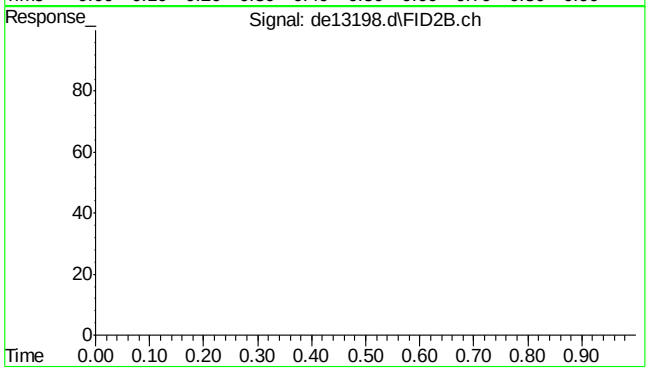
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2933493
Conc: 43.91 µg/ml m



#42 bht

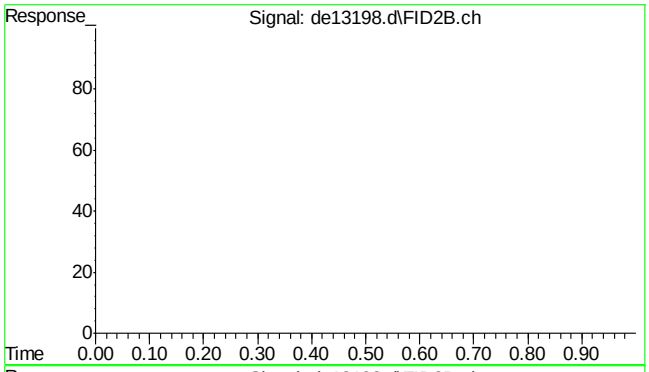
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

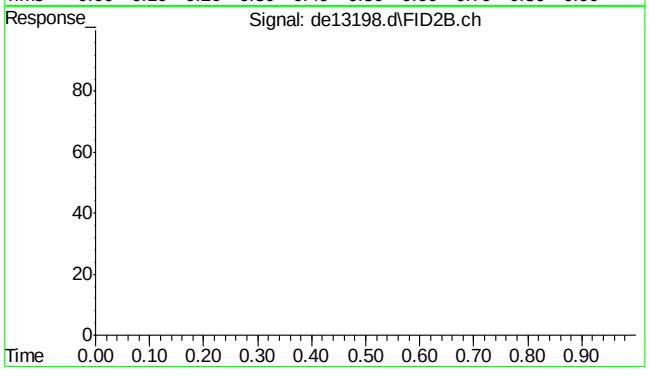
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678



#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

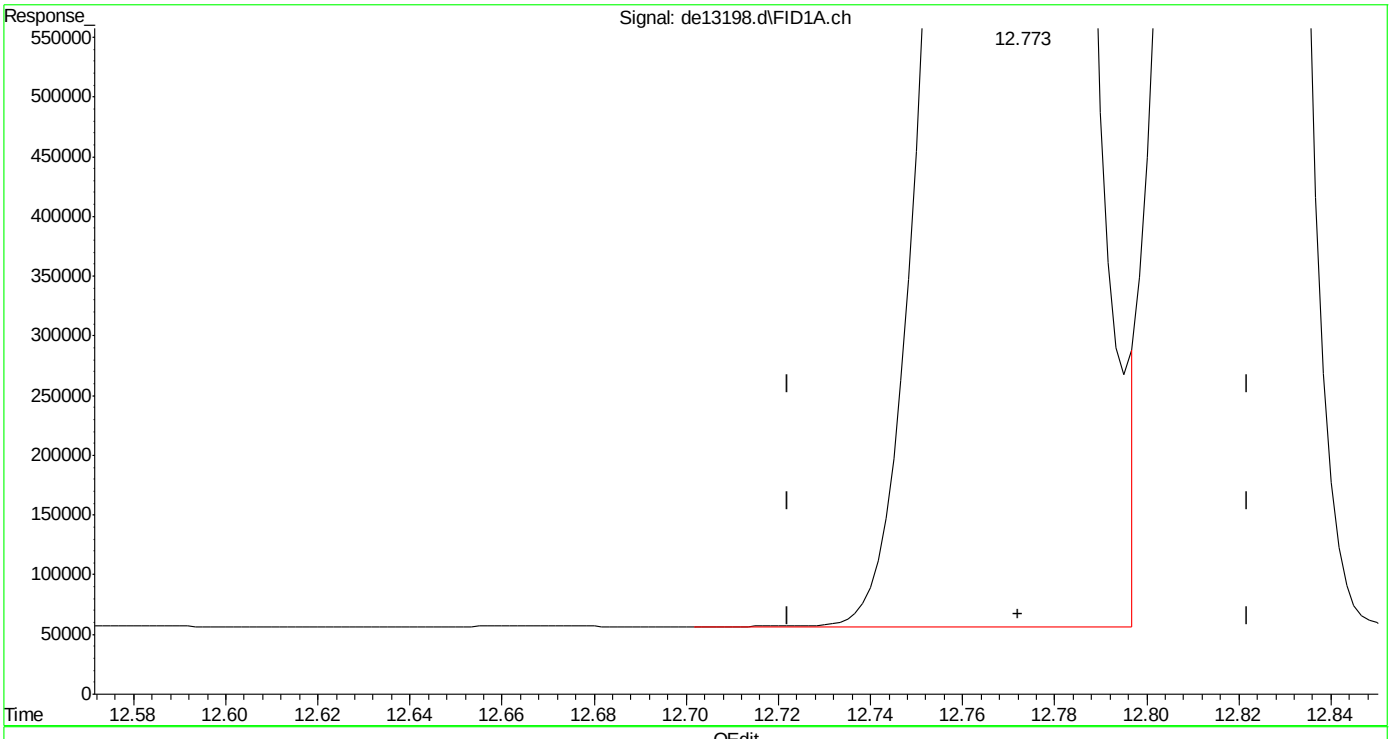
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.773min 52.075 µg/ml
response 5034310

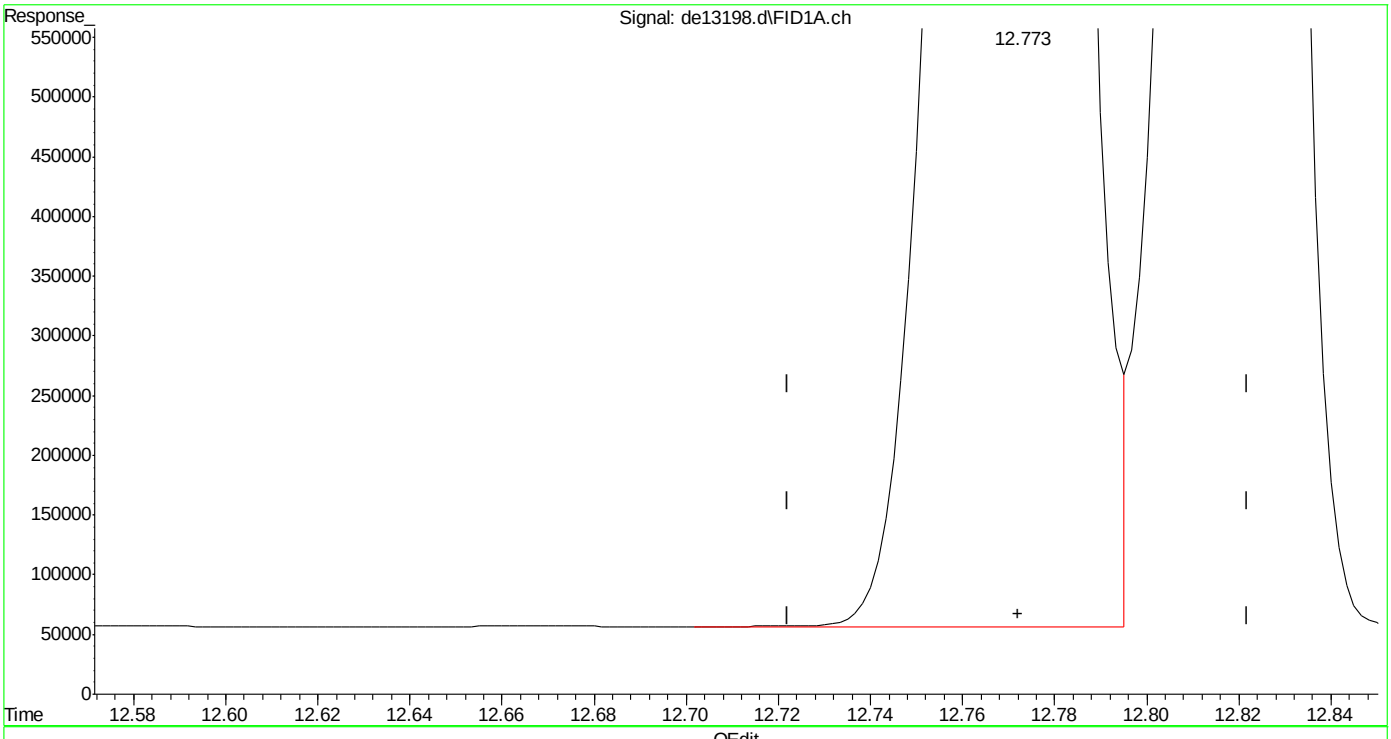
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.773min 51.829 µg/ml m
response 5010585

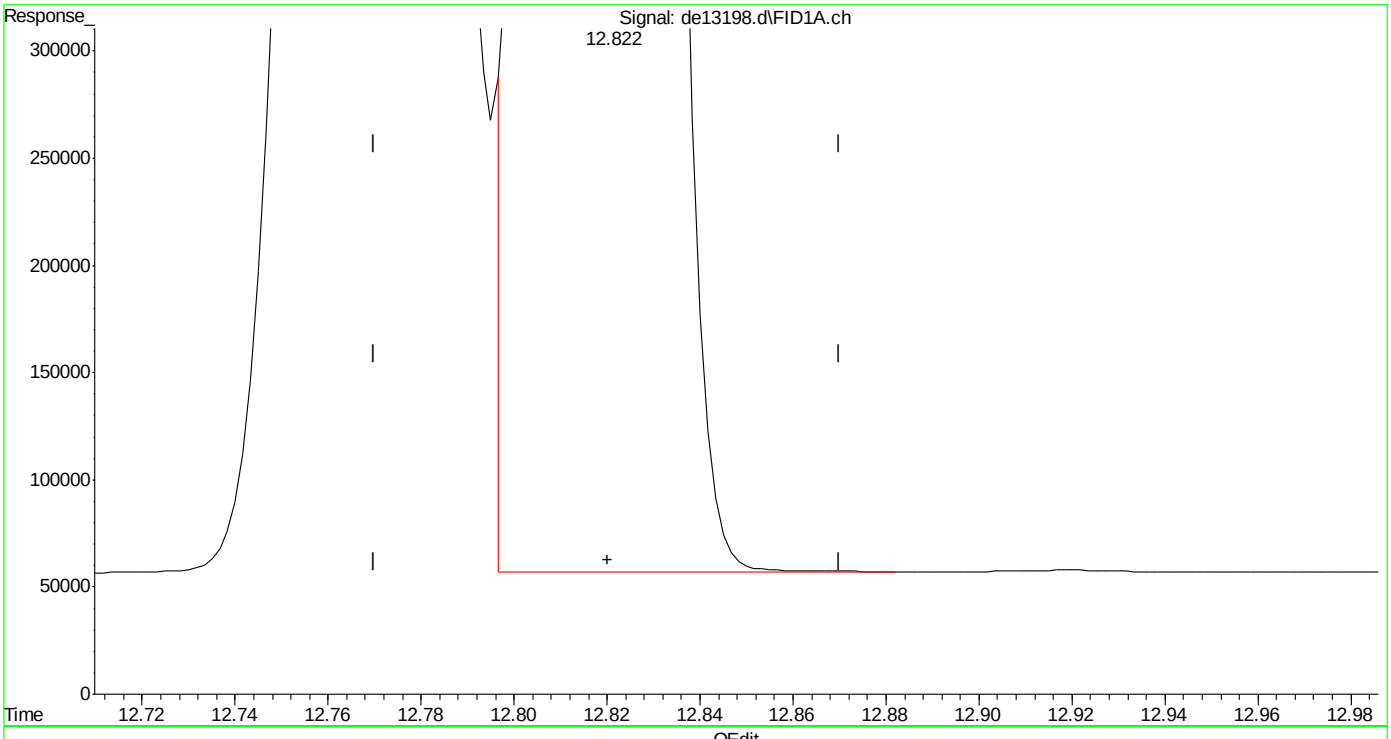
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.822min 49.264 µg/ml
response 4795363

(+) = Expected Retention Time
EPH160204W.M Fri Feb 05 11:46:32 2016

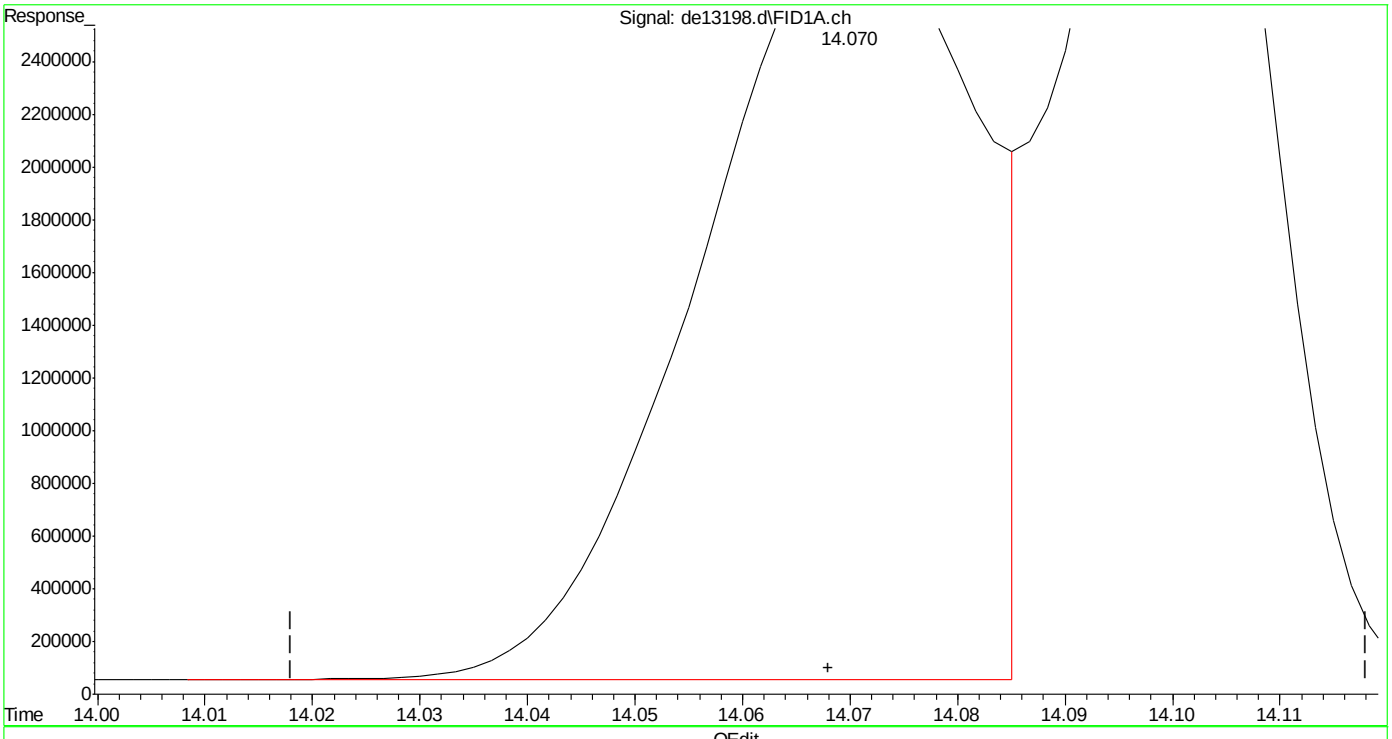
SGS ACCUTEST MC45678

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

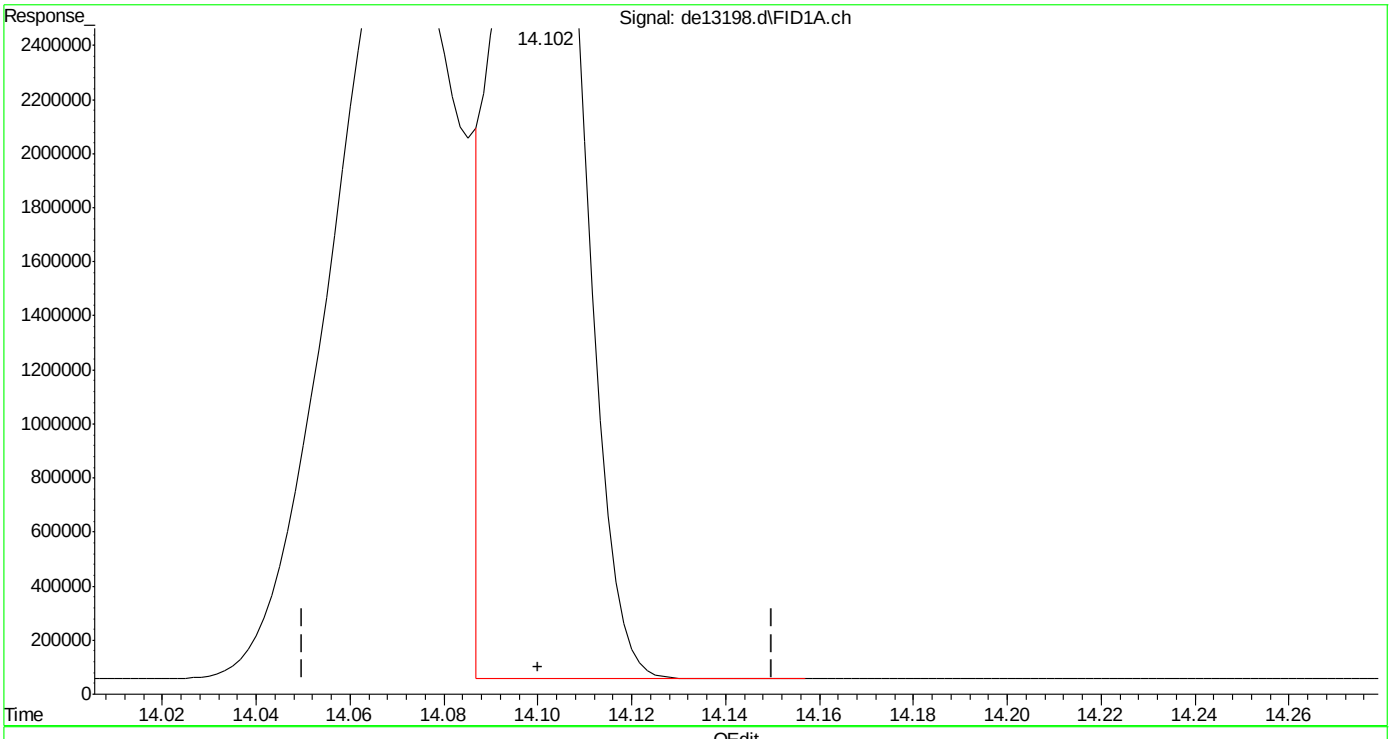
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.102min 48.745 µg/ml
response 4606556

(+) = Expected Retention Time

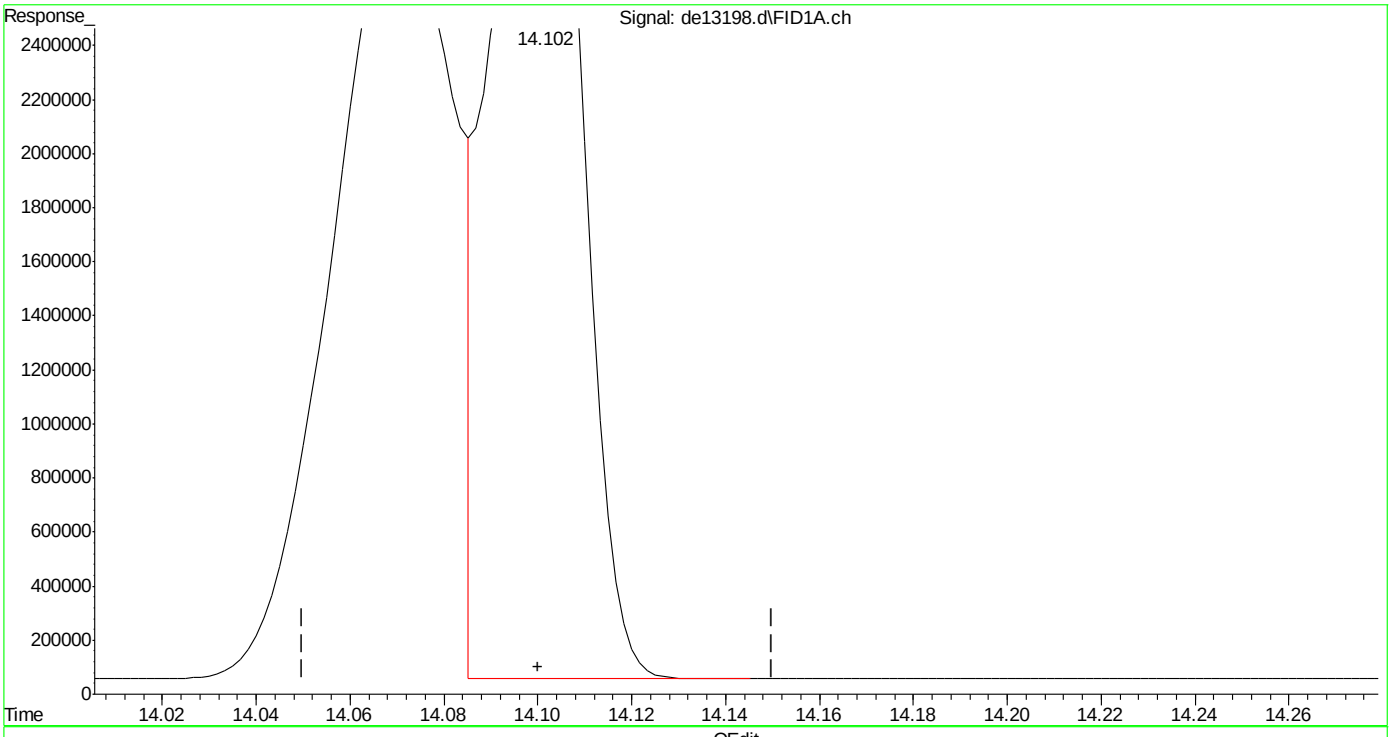
SGS ACCUTEST MC45678

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\DE160506EPH\
Data File : de14022.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 8:47 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	6.693	5448497	59.075 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 295.38%#	
6) s 2-bromonaphthalene	7.427	3651509	58.187 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 290.94%#	
11) s o-terphenyl	9.968	5949542	58.086 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 290.43%#	
35) s 1-chlorooctadecane	11.228	3125360	55.243 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 276.22%#	
Target Compounds			
2) naphthalene	5.243	6148098	59.609 µg/ml
3) 2-methylnaphthalene	6.143	6003115	58.577 µg/ml
5) acenaphthylene	7.260	5917410	58.820 µg/ml
7) acenaphthene	7.502	6170282	59.688 µg/ml
8) fluorene	8.147	5980603	58.883 µg/ml
9) phenanthrene	9.332	5902411	58.002 µg/ml
10) anthracene	9.388	5679754	58.549 µg/ml
12) fluoranthene	10.840	5756546	57.599 µg/ml
13) pyrene	11.100	5892726	58.078 µg/ml
14) benzo(a)anthracene	12.667	5493018	56.819 µg/ml
15) chrysene	12.715	5562885	57.148 µg/ml
16) benzo(B)fluoranthene	13.968	5559764	56.158 µg/ml
17) benzo(k)fluoranthene	14.000	5532632	58.545 µg/ml
18) benzo(a)pyrene	14.305	5281153	57.133 µg/ml
19) indeno(1,2,3-cd)pyrene	15.452	5334024	56.350 µg/ml
20) dibenzo(ah)anthracene	15.492	5233432	57.259 µg/ml
21) benzo(ghi)perylene	15.678	5216858	56.629 µg/ml
25) h c-9	2.648	4031919	54.580 µg/mlm
26) h c-10	3.815	4059652	54.955 µg/ml
27) naphthalene #2	5.490	4331363	54.229 µg/ml
28) c-12	5.668	4002639	54.183 µg/ml
29) 2-methylnaphthalene #2	6.385	4298151	53.349 µg/ml
30) c-14	7.185	3971015	53.755 µg/ml
31) c-16	8.513	3942664	53.371 µg/ml
32) c-18	9.708	3964639	53.669 µg/ml
33) c-19	10.263	3949202	59.114 µg/ml
34) c-20	10.795	3867100	57.885 µg/ml
36) c-22	11.790	3867044	57.884 µg/ml
37) c-24	12.707	3625269	54.265 µg/ml
38) c-26	13.558	3872678	57.969 µg/ml

SGS ACCUTEST MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14022.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 8:47 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	3744614	56.052 µg/ml
40) h	c-30	15.098	3751179	56.150 µg/ml
41) h	c-36	17.008	3106524	46.500 µg/mlm

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

9.5.9

9

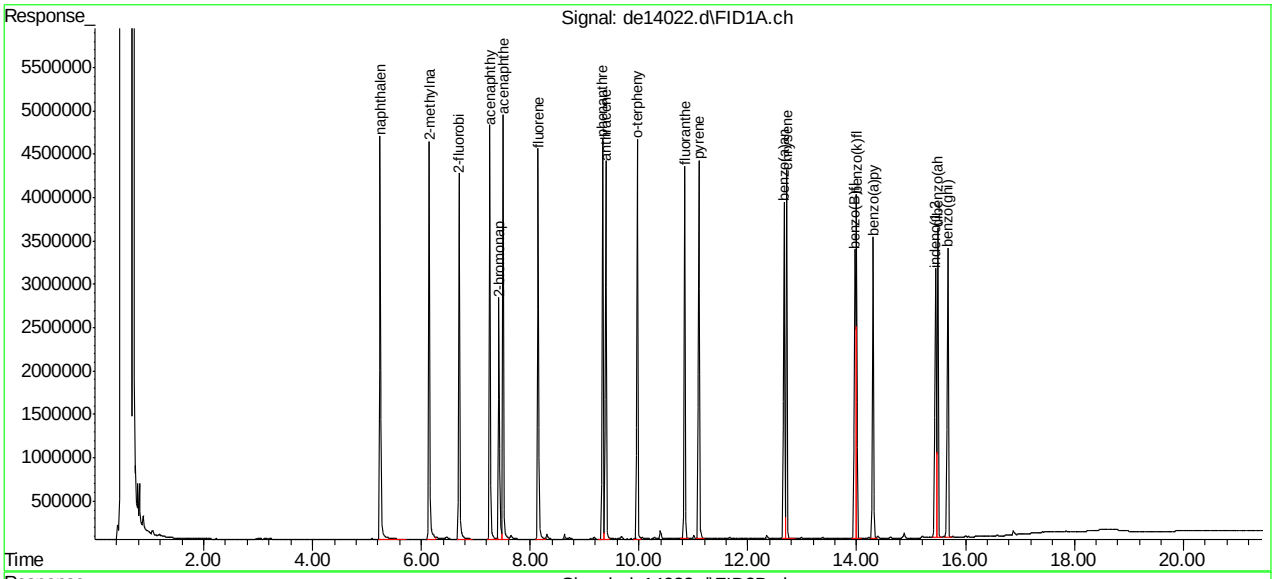
SGS ACCUTEST MC45678

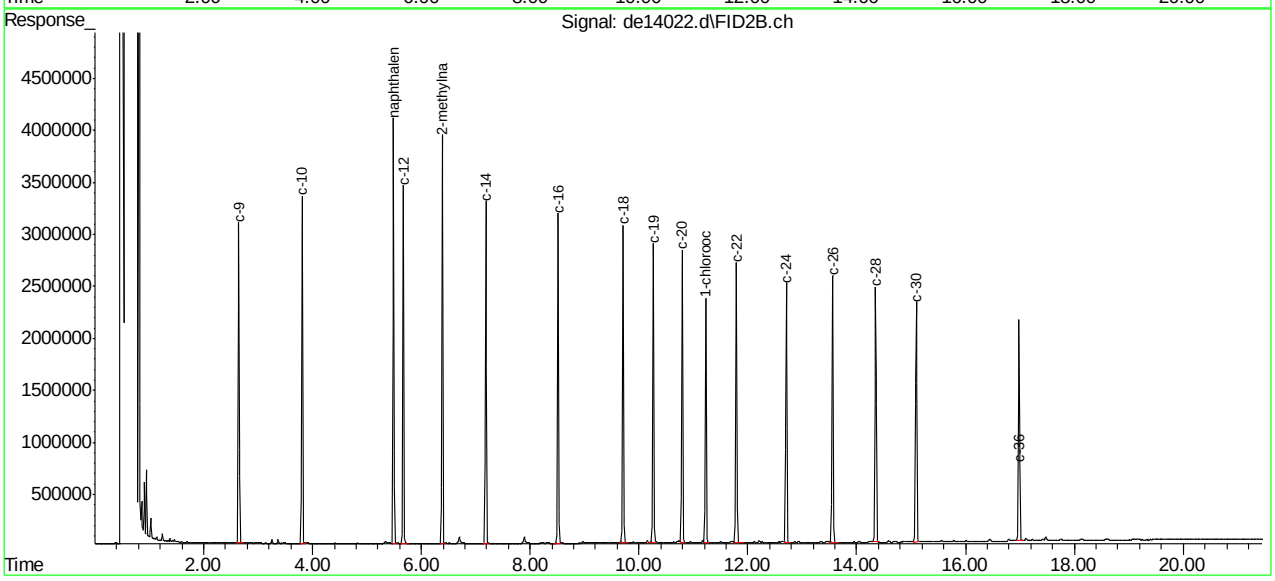
Quantitation Report (QT Reviewed)

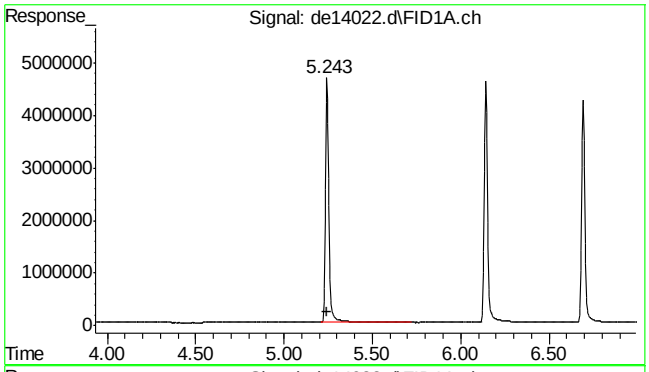
Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14022.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 8:47 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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

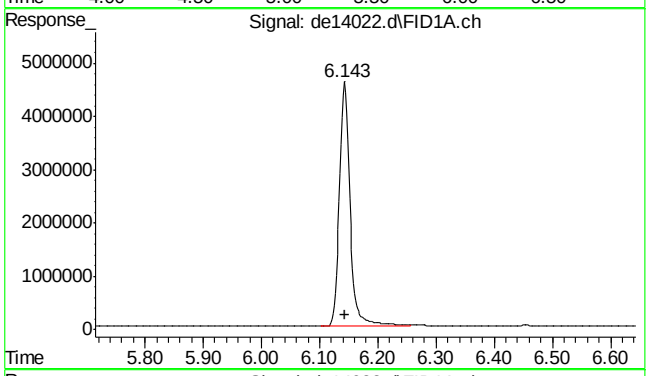






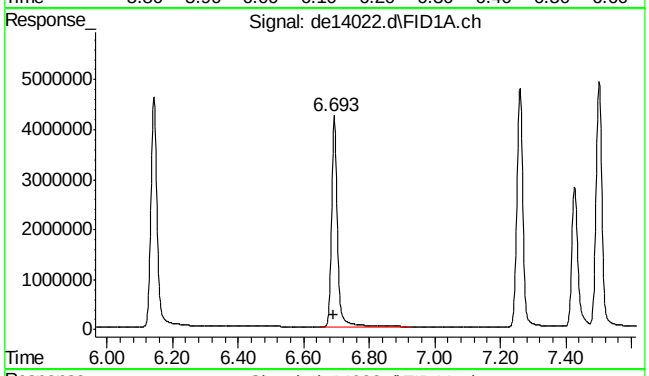
#2 naphthalene

R.T.: 5.243 min
Delta R.T.: 0.000 min
Response: 6148098
Conc: 59.61 µg/ml



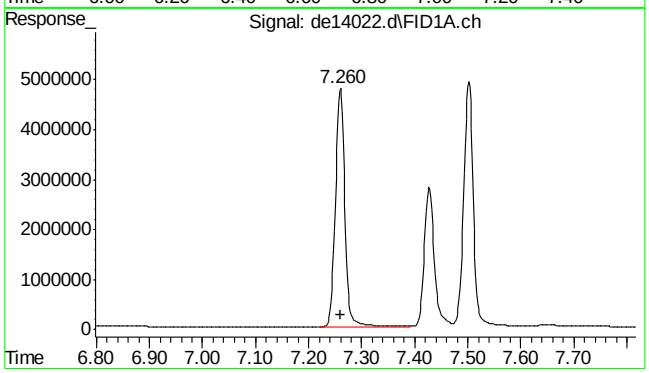
#3 2-methylnaphthalene

R.T.: 6.143 min
Delta R.T.: 0.000 min
Response: 6003115
Conc: 58.58 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.693 min
Delta R.T.: 0.000 min
Response: 5448497
Conc: 59.08 µg/ml



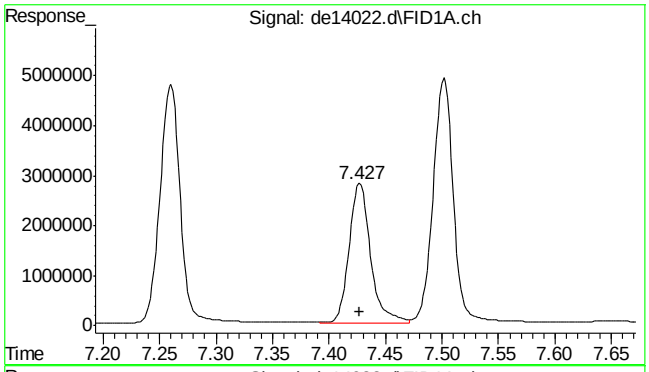
#5 acenaphthylene

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 5917410
Conc: 58.82 µg/ml

9.5.9

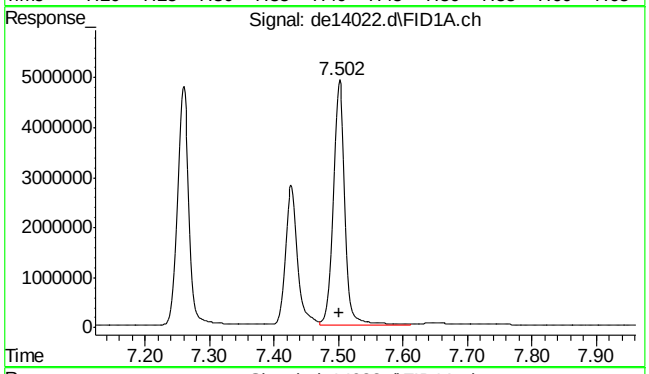
9

SGS ACCUTEST MC45678



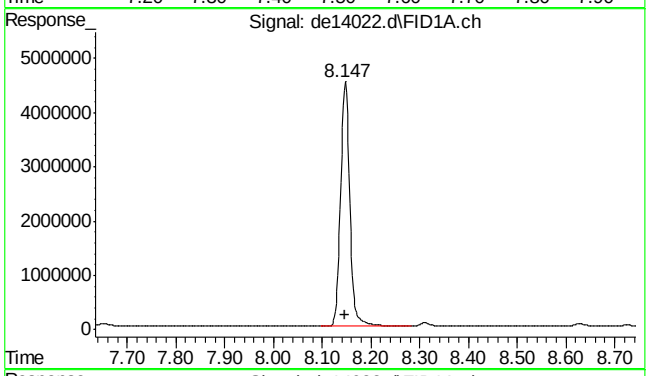
#6 2-bromonaphthalene

R.T.: 7.427 min
Delta R.T.: 0.000 min
Response: 3651509
Conc: 58.19 µg/ml



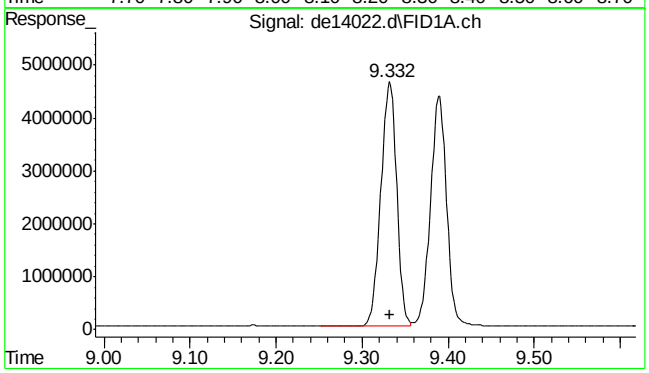
#7 acenaphthene

R.T.: 7.502 min
Delta R.T.: 0.000 min
Response: 6170282
Conc: 59.69 µg/ml



#8 fluorene

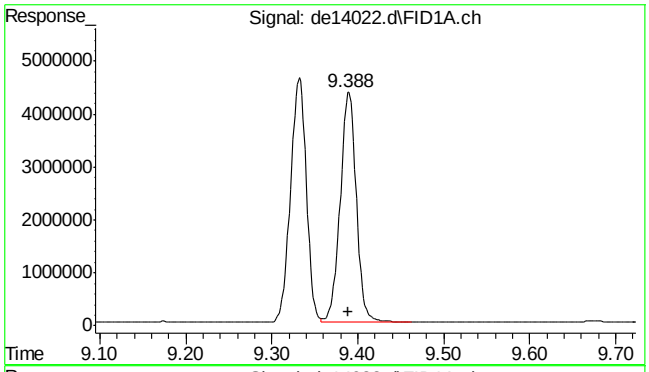
R.T.: 8.147 min
Delta R.T.: 0.000 min
Response: 5980603
Conc: 58.88 µg/ml



#9 phenanthrene

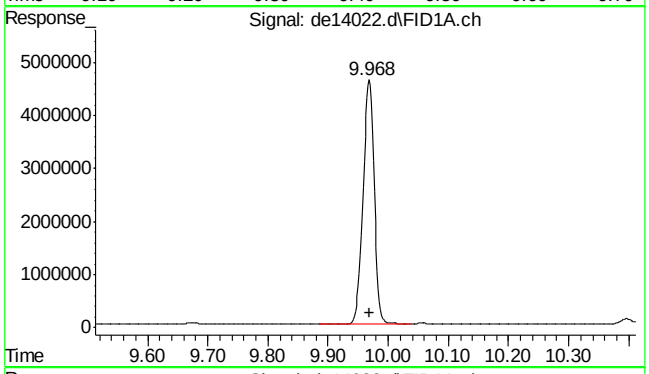
R.T.: 9.332 min
Delta R.T.: 0.000 min
Response: 5902411
Conc: 58.00 µg/ml

SGS ACCUTEST MC45678



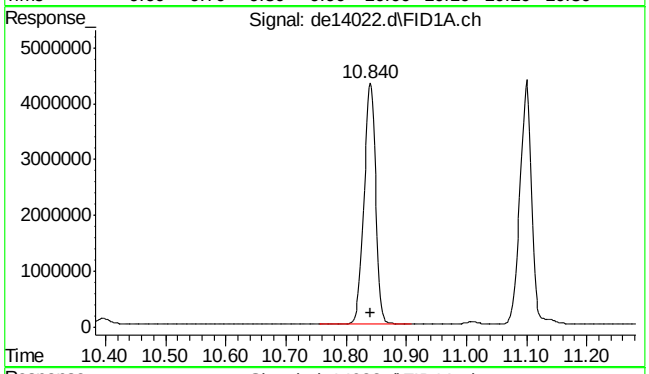
#10 anthracene

R.T.: 9.388 min
Delta R.T.: 0.000 min
Response: 5679754
Conc: 58.55 µg/ml



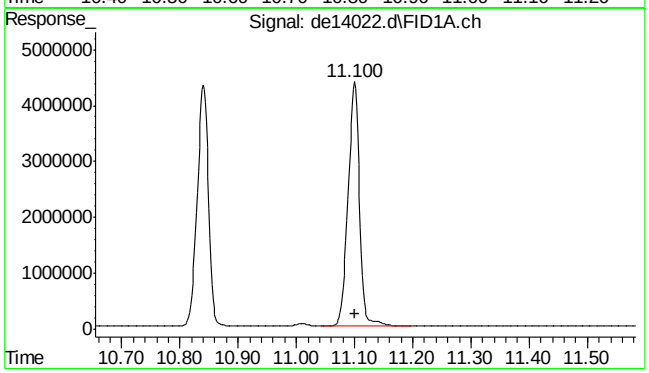
#11 o-terphenyl

R.T.: 9.968 min
Delta R.T.: 0.000 min
Response: 5949542
Conc: 58.09 µg/ml



#12 fluoranthene

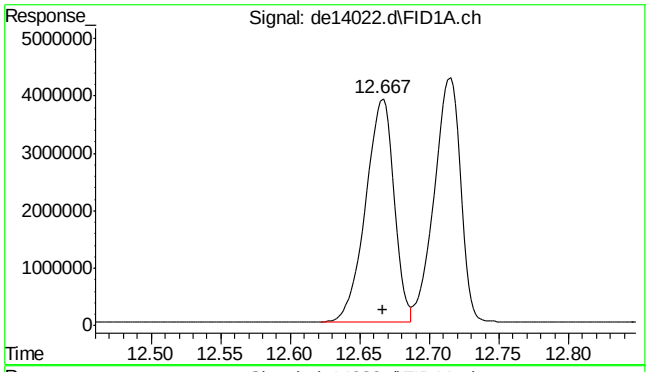
R.T.: 10.840 min
Delta R.T.: 0.000 min
Response: 5756546
Conc: 57.60 µg/ml



#13 pyrene

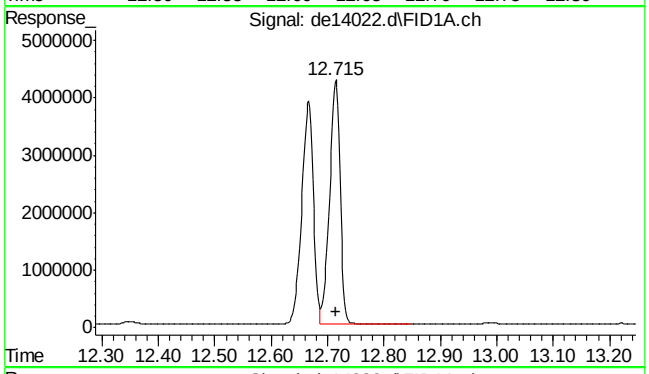
R.T.: 11.100 min
Delta R.T.: 0.000 min
Response: 5892726
Conc: 58.08 µg/ml

SGS ACCUTEST MC45678



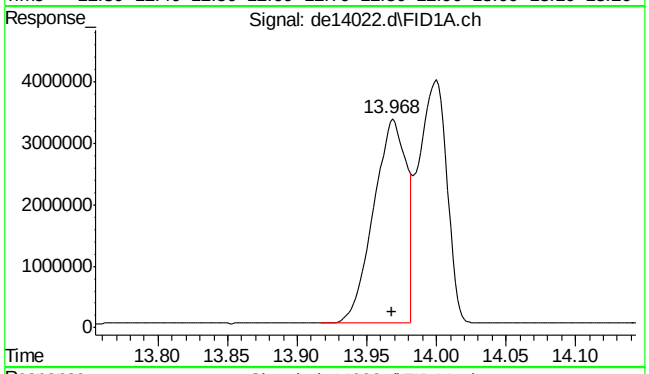
#14 benzo(a)anthracene

R.T.: 12.667 min
Delta R.T.: 0.000 min
Response: 5493018
Conc: 56.82 µg/ml



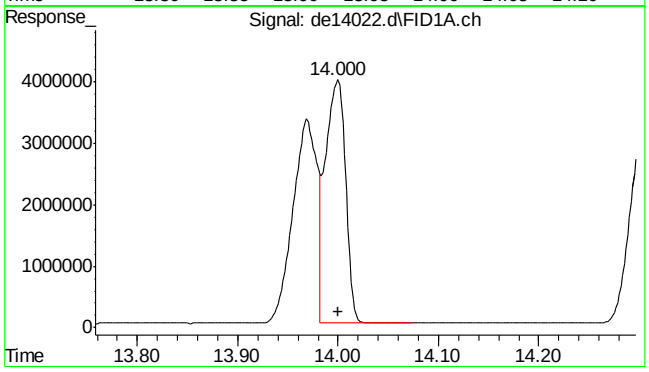
#15 chrysene

R.T.: 12.715 min
Delta R.T.: 0.000 min
Response: 5562885
Conc: 57.15 µg/ml



#16 benzo(B)fluoranthene

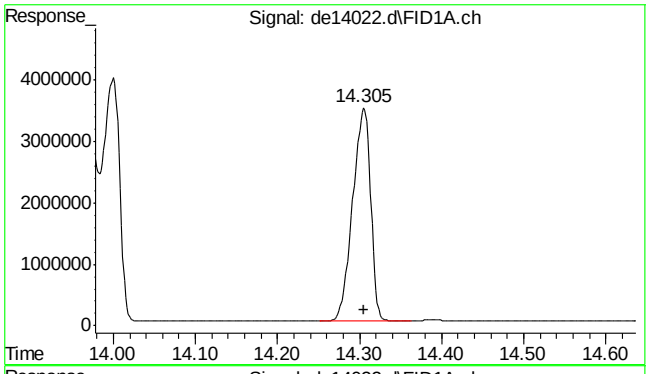
R.T.: 13.968 min
Delta R.T.: 0.000 min
Response: 5559764
Conc: 56.16 µg/ml



#17 benzo(k)fluoranthene

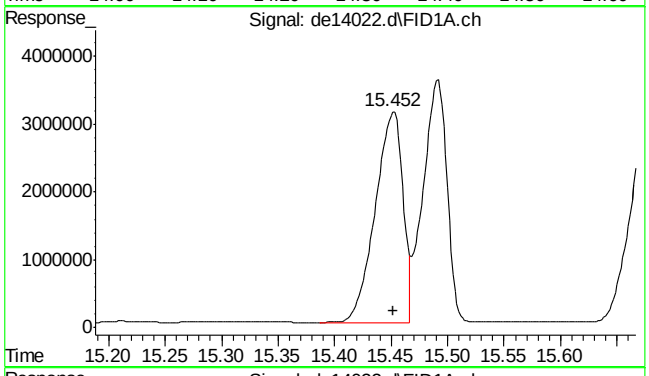
R.T.: 14.000 min
Delta R.T.: 0.000 min
Response: 5532632
Conc: 58.54 µg/ml

SGS ACCUTEST MC45678



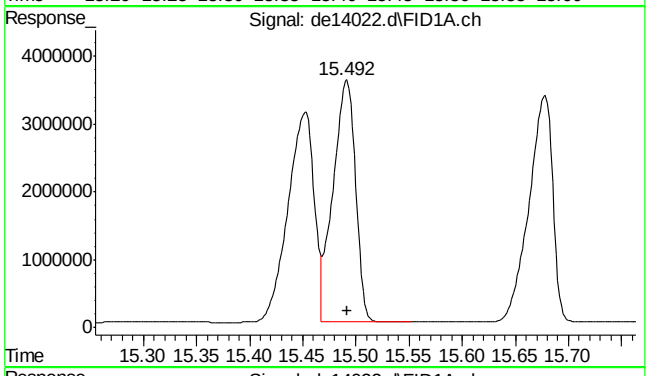
#18 benzo(a)pyrene

R.T.: 14.305 min
Delta R.T.: 0.000 min
Response: 5281153
Conc: 57.13 µg/ml



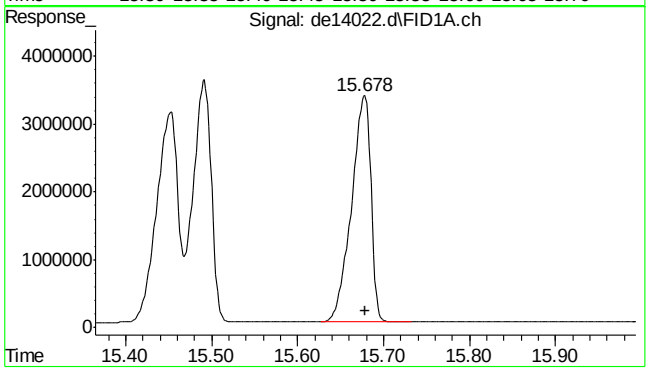
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.452 min
Delta R.T.: 0.000 min
Response: 5334024
Conc: 56.35 µg/ml



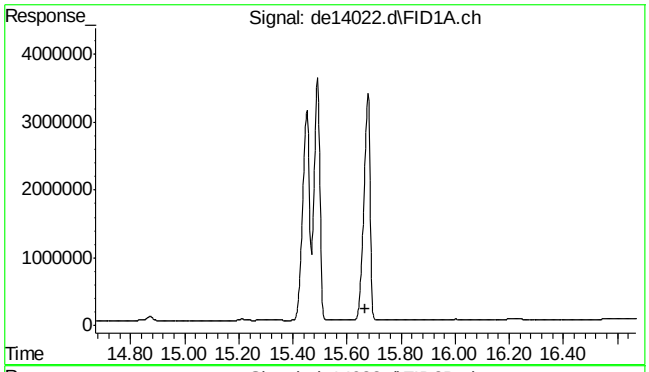
#20 dibenzo(ah)anthracene

R.T.: 15.492 min
Delta R.T.: 0.000 min
Response: 5233432
Conc: 57.26 µg/ml



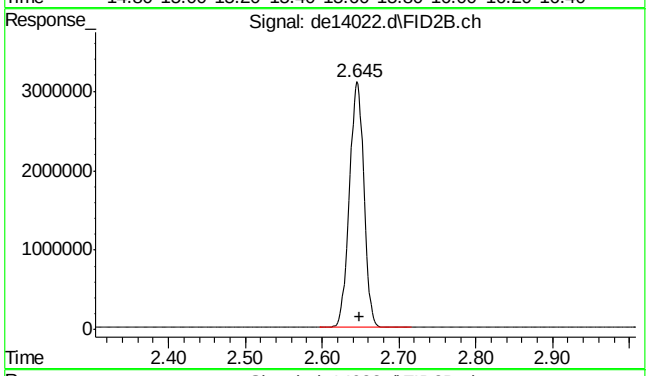
#21 benzo(ghi)perylene

R.T.: 15.678 min
Delta R.T.: 0.000 min
Response: 5216858
Conc: 56.63 µg/ml



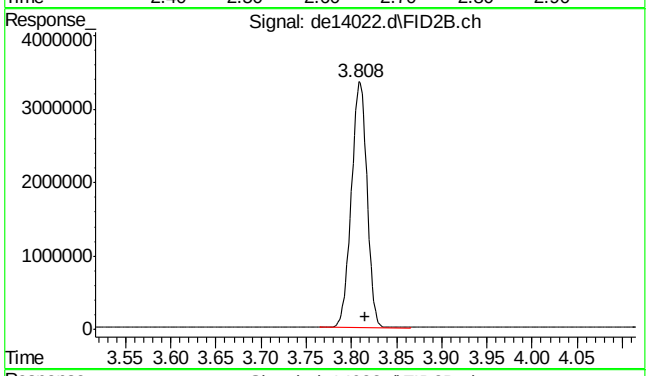
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



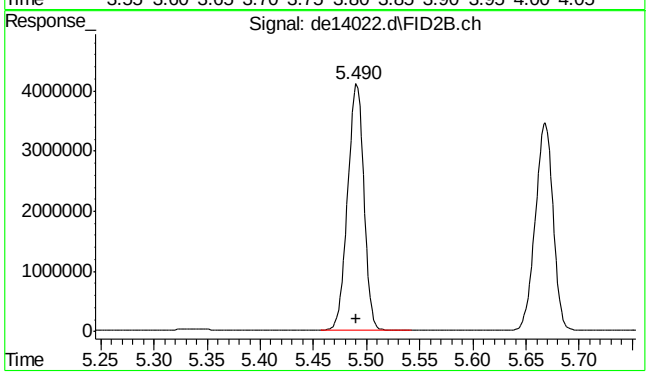
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4031919
Conc: 54.58 µg/ml m



#26 c-10

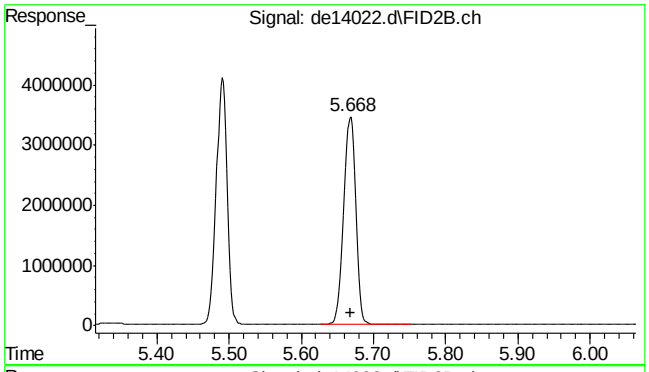
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4059652
Conc: 54.96 µg/ml



#27 naphthalene #2

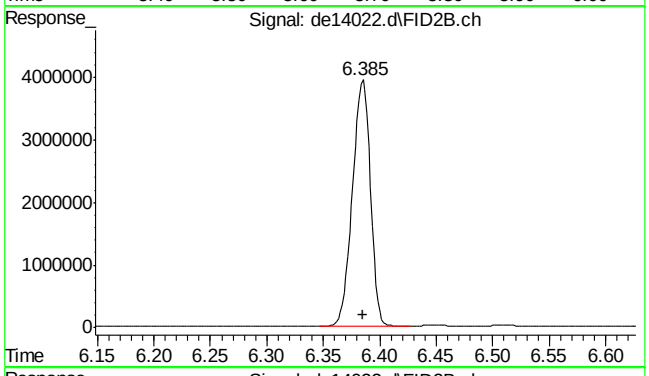
R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 4331363
Conc: 54.23 µg/ml

SGS ACCUTEST MC45678



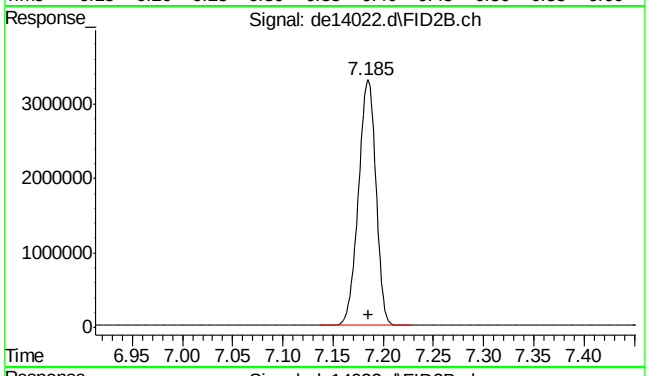
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 4002639
Conc: 54.18 µg/ml



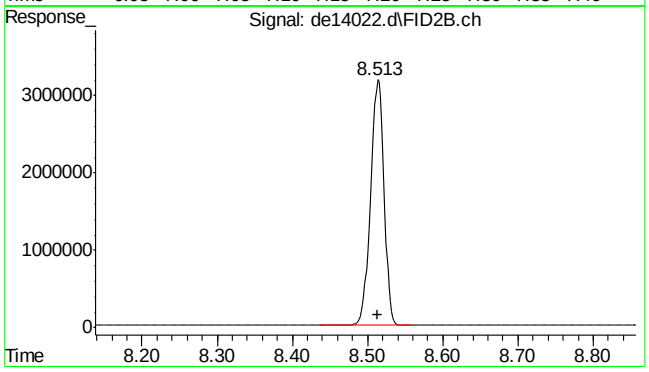
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4298151
Conc: 53.35 µg/ml



#30 c-14

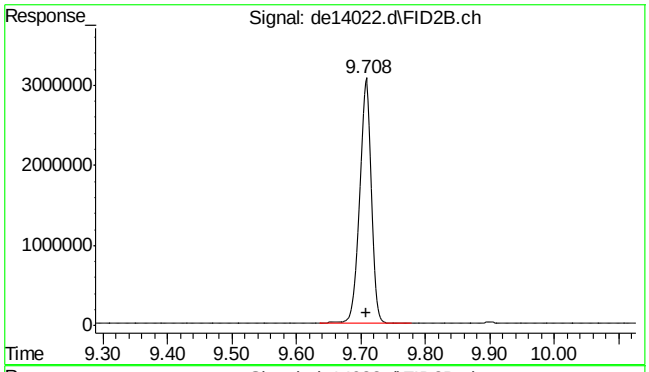
R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 3971015
Conc: 53.76 µg/ml



#31 c-16

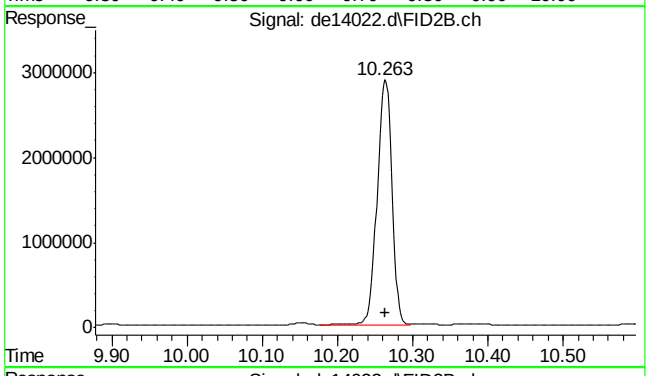
R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3942664
Conc: 53.37 µg/ml

SGS ACCUTEST MC45678



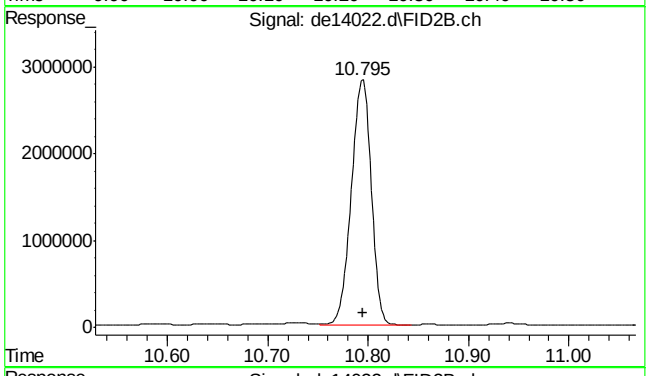
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3964639
Conc: 53.67 µg/ml



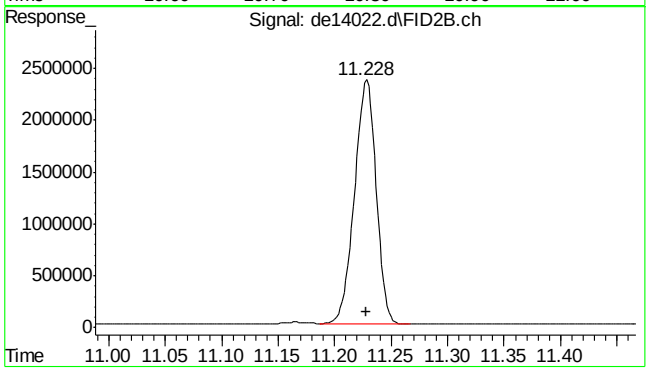
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3949202
Conc: 59.11 µg/ml



#34 c-20

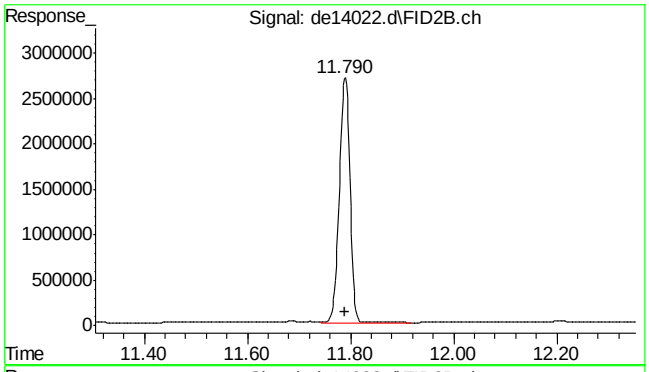
R.T.: 10.795 min
Delta R.T.: 0.000 min
Response: 3867100
Conc: 57.89 µg/ml



#35 1-chlorooctadecane

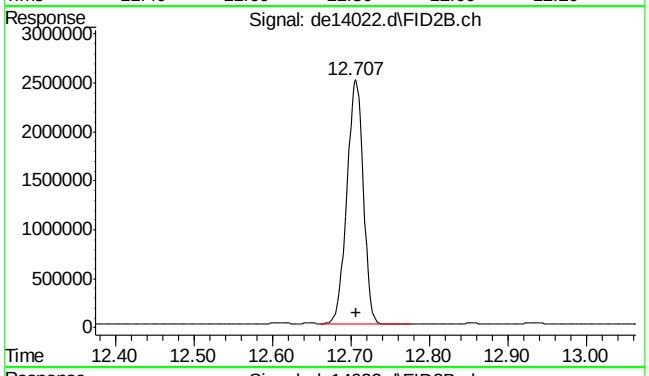
R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3125360
Conc: 55.24 µg/ml

SGS ACCUTEST MC45678



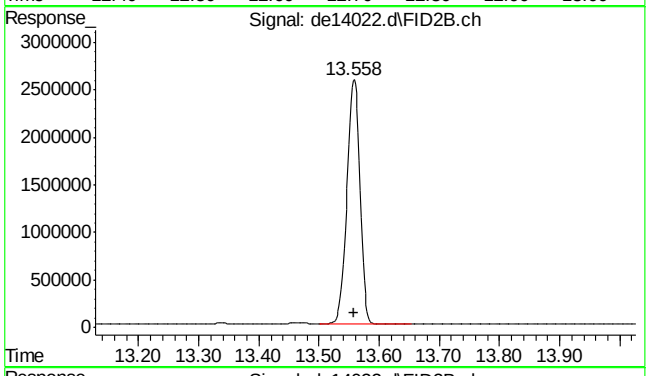
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3867044
Conc: 57.88 µg/ml



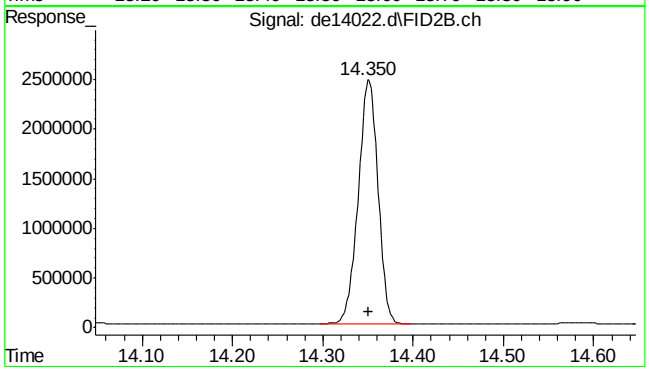
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3625269
Conc: 54.27 µg/ml



#38 c-26

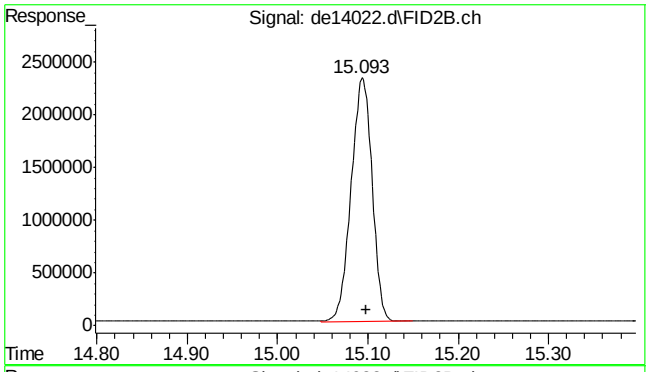
R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3872678
Conc: 57.97 µg/ml



#39 c-28

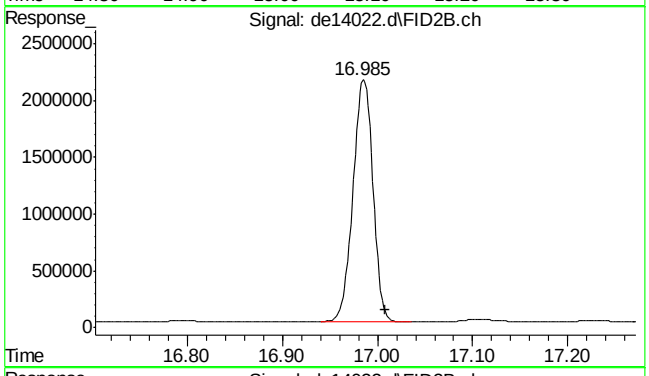
R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3744614
Conc: 56.05 µg/ml

SGS ACCUTEST MC45678



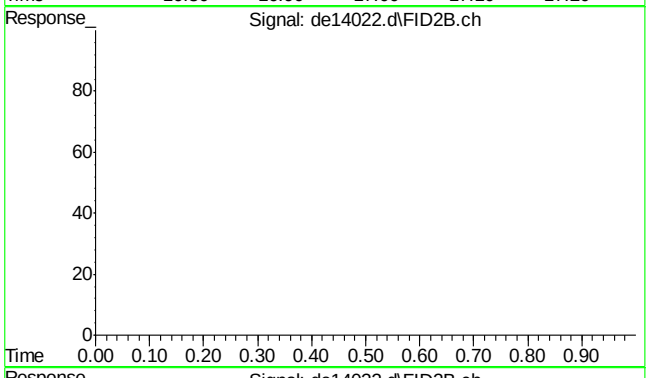
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3751179
Conc: 56.15 µg/ml



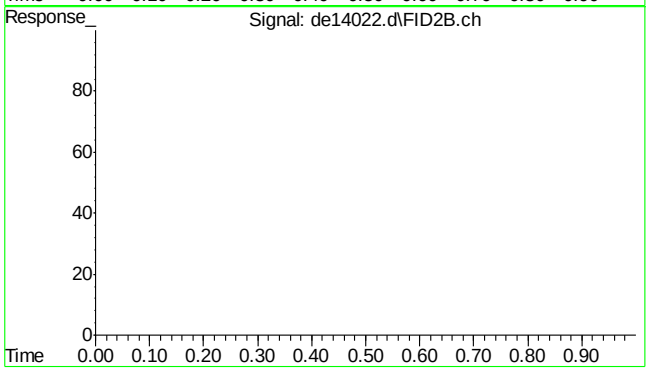
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3106524
Conc: 46.50 µg/ml m



#42 bht

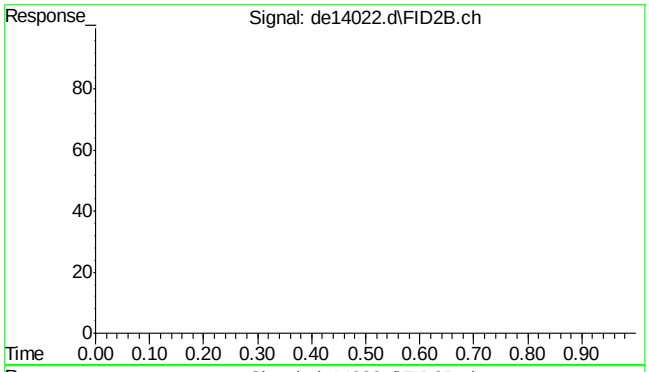
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

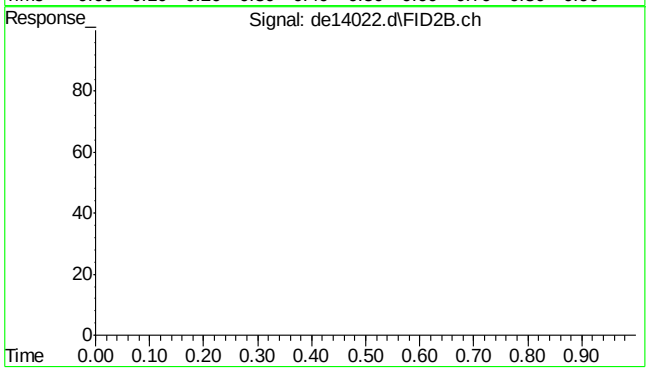
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678



#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.

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/06/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:48 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.695	5287595	57.331 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 286.66%#
6) s	2-bromonaphthalene	7.428	3541433	56.433 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 282.17%#
11) s	o-terphenyl	9.970	5798109	56.608 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 283.04%#
35) s	1-chlorooctadecane	11.228	3262823	57.673 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 288.37%#
	Target Compounds			
2)	naphthalene	5.245	5953626	57.724 µg/ml
3)	2-methylnaphthalene	6.143	5810846	56.701 µg/ml
5)	acenaphthylene	7.262	5737429	57.031 µg/ml
7)	acenaphthene	7.503	6009647	58.134 µg/ml
8)	fluorene	8.148	5802905	57.133 µg/ml
9)	phenanthrene	9.333	5751584	56.519 µg/ml
10)	anthracene	9.392	5531502	57.021 µg/ml
12)	fluoranthene	10.842	5583738	55.870 µg/ml
13)	pyrene	11.100	5713758	56.314 µg/ml
14)	benzo(a)anthracene	12.667	5294934	54.770 µg/ml
15)	chrysene	12.715	5381317	55.283 µg/ml
16)	benzo(B)fluoranthene	13.970	5897230	59.567 µg/ml
17)	benzo(k)fluoranthene	14.000	4797606	50.767 µg/ml
18)	benzo(a)pyrene	14.307	5094954	55.119 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.452	5180044	54.724 µg/mlm
20)	dibenzo(ah)anthracene	15.492	5011105	54.827 µg/mlm
21)	benzo(ghi)perylene	15.678	5010842	54.393 µg/ml
25) h	c-9	2.648	4271293	57.820 µg/mlm
26) h	c-10	3.815	4309948	58.343 µg/ml
27)	naphthalene #2	5.490	4590426	57.472 µg/ml
28)	c-12	5.668	4255152	57.602 µg/ml
29)	2-methylnaphthalene #2	6.385	4564712	56.658 µg/ml
30)	c-14	7.185	4198605	56.836 µg/ml
31)	c-16	8.513	4120097	55.773 µg/ml
32)	c-18	9.708	4122499	55.806 µg/ml
33)	c-19	10.263	4100388	61.377 µg/ml
34)	c-20	10.795	4028341	60.299 µg/ml
36)	c-22	11.790	4006539	59.972 µg/ml
37)	c-24	12.707	3750881	56.146 µg/ml
38)	c-26	13.558	3987049	59.681 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:48 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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	3847007	57.584 µg/ml
40) h	c-30	15.098	3830270	57.334 µg/ml
41) h	c-36	17.008	3166489	47.398 µg/mlm

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

9.5.10

9

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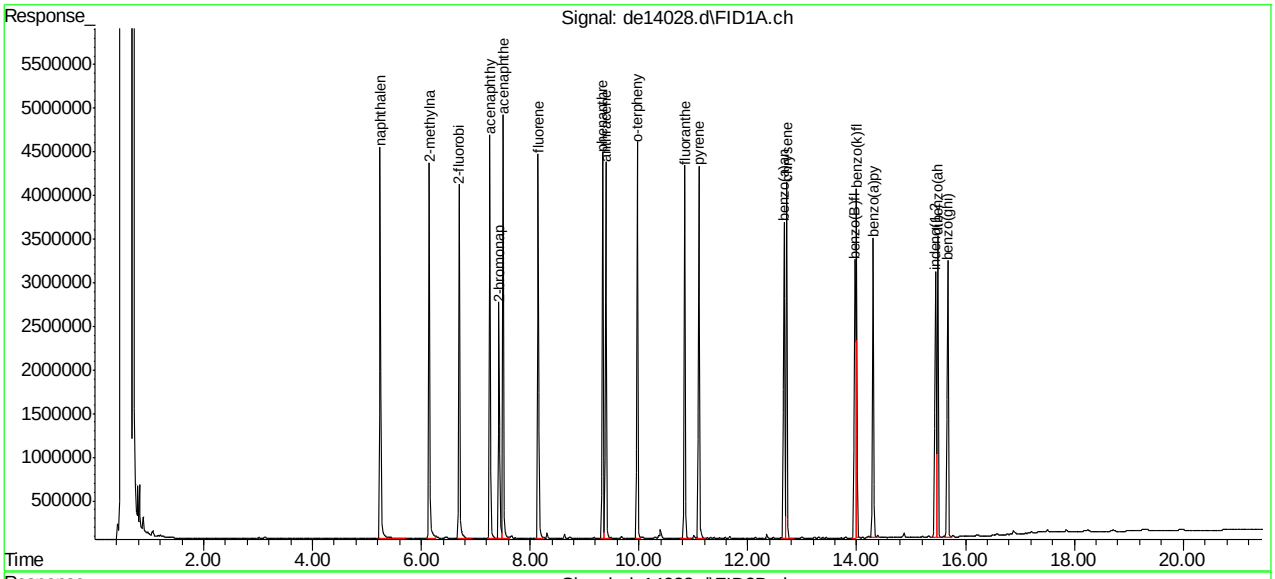
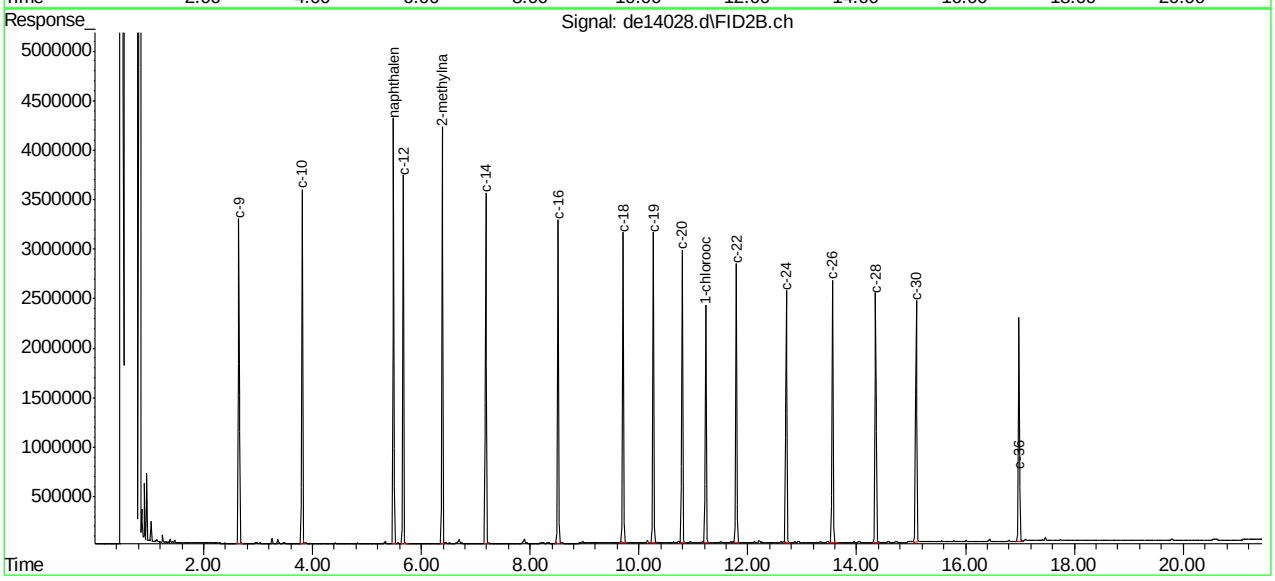
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:48 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

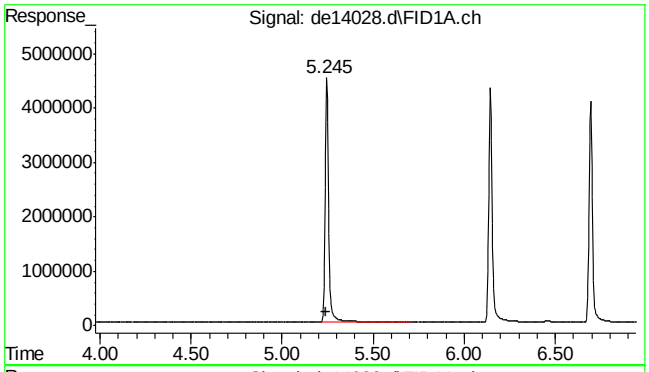
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:13:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 2016
Response via : Initial Calibration
Integrator: RTE

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



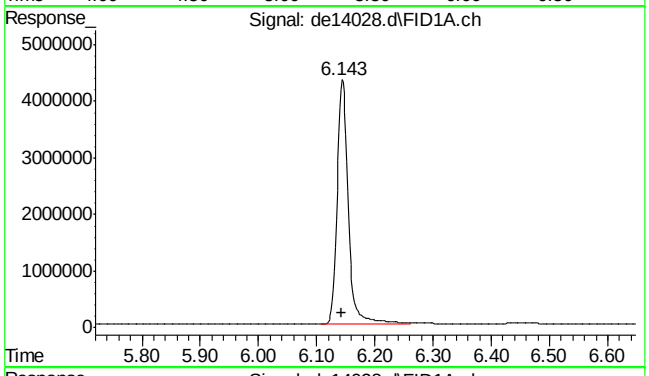


SGS ACCUTEST MC45678



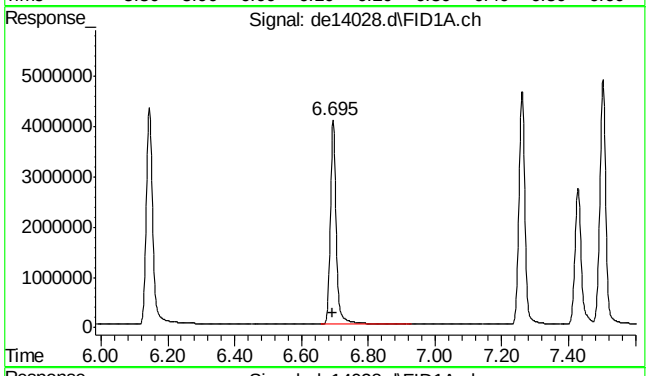
#2 naphthalene

R.T.: 5.245 min
Delta R.T.: 0.002 min
Response: 5953626
Conc: 57.72 µg/ml



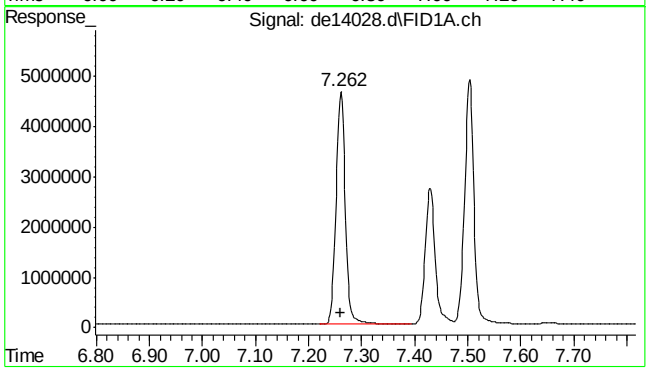
#3 2-methylnaphthalene

R.T.: 6.143 min
Delta R.T.: 0.000 min
Response: 5810846
Conc: 56.70 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.695 min
Delta R.T.: 0.002 min
Response: 5287595
Conc: 57.33 µg/ml



#5 acenaphthylene

R.T.: 7.262 min
Delta R.T.: 0.002 min
Response: 5737429
Conc: 57.03 µg/ml

9.5.10

9

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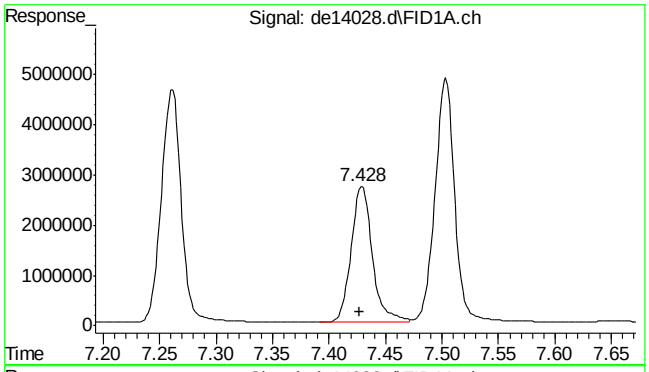
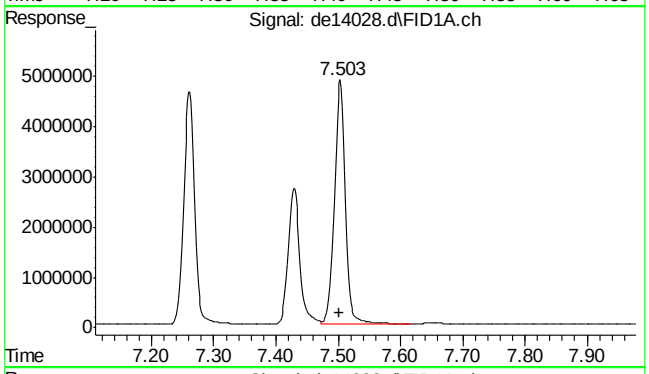


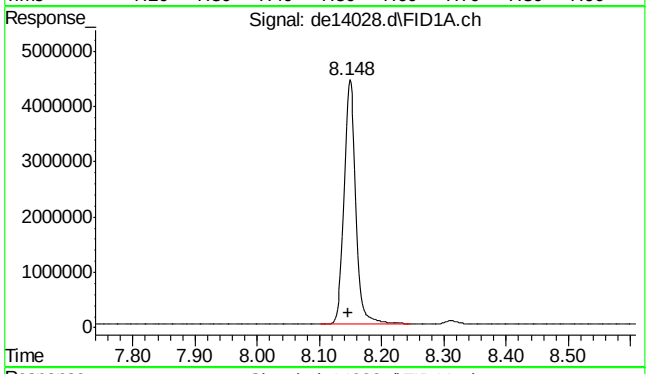
#6 2-bromonaphthalene

R.T.: 7.428 min
Delta R.T.: 0.002 min
Response: 3541433
Conc: 56.43 µg/ml



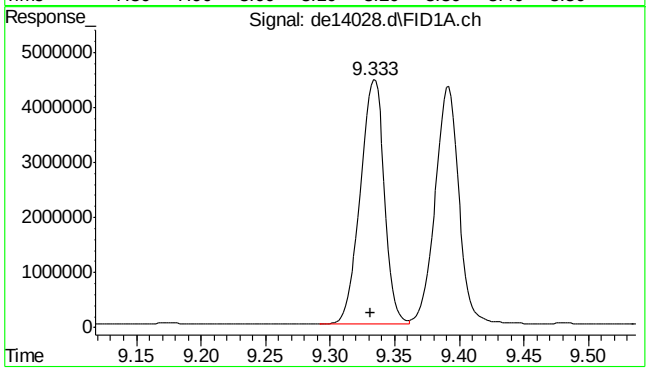
#7 acenaphthene

R.T.: 7.503 min
Delta R.T.: 0.002 min
Response: 6009647
Conc: 58.13 µg/ml



#8 fluorene

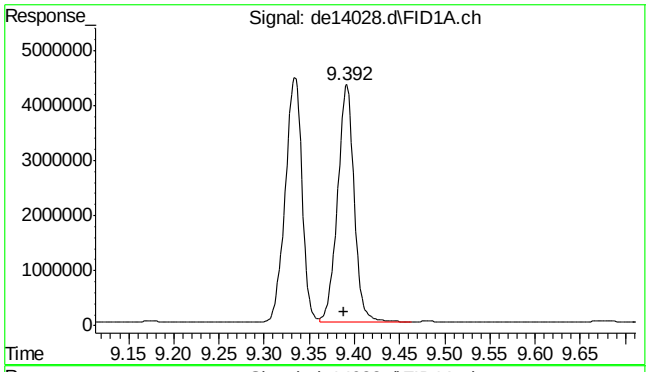
R.T.: 8.148 min
Delta R.T.: 0.002 min
Response: 5802905
Conc: 57.13 µg/ml



#9 phenanthrene

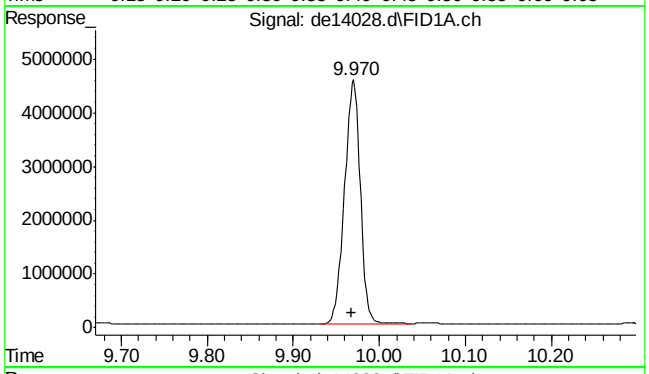
R.T.: 9.333 min
Delta R.T.: 0.002 min
Response: 5751584
Conc: 56.52 µg/ml

SGS ACCUTEST MC45678



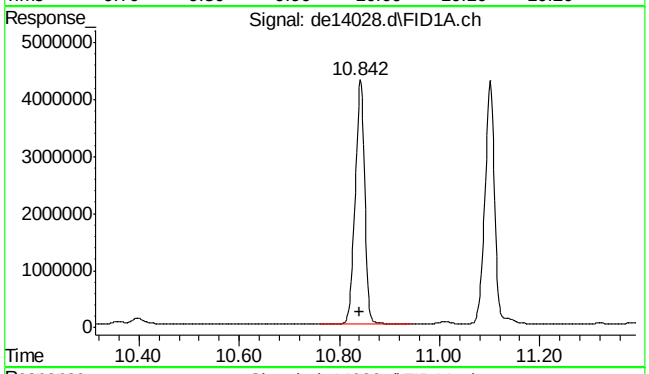
#10 anthracene

R.T.: 9.392 min
Delta R.T.: 0.003 min
Response: 5531502
Conc: 57.02 µg/ml



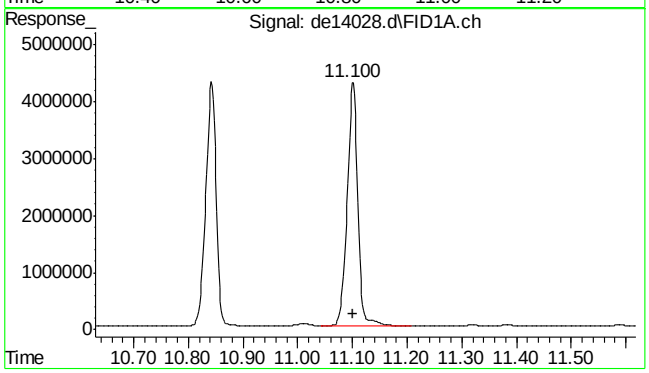
#11 o-terphenyl

R.T.: 9.970 min
Delta R.T.: 0.002 min
Response: 5798109
Conc: 56.61 µg/ml



#12 fluoranthene

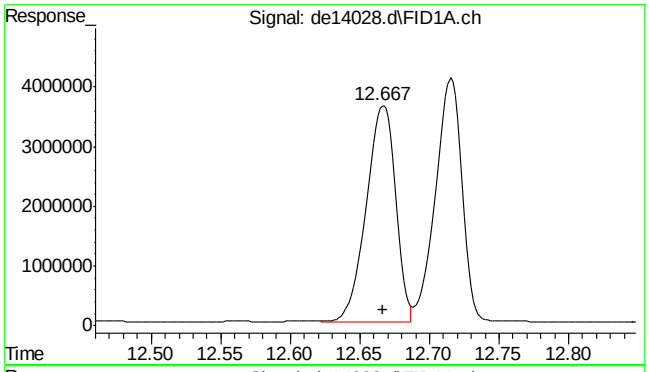
R.T.: 10.842 min
Delta R.T.: 0.002 min
Response: 5583738
Conc: 55.87 µg/ml



#13 pyrene

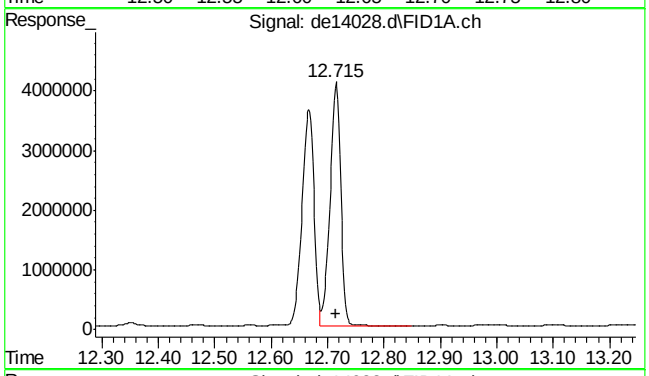
R.T.: 11.100 min
Delta R.T.: 0.000 min
Response: 5713758
Conc: 56.31 µg/ml

SGS ACCUTEST MC45678



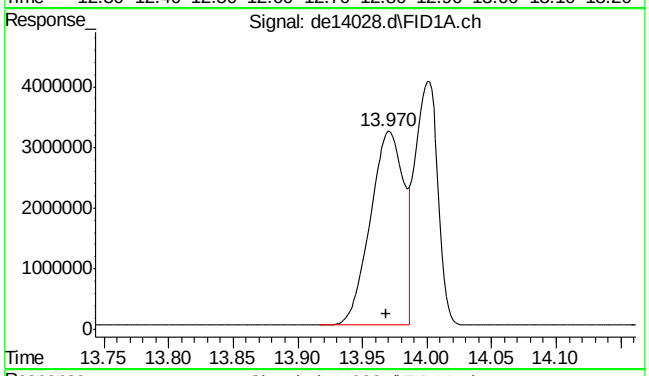
#14 benzo(a)anthracene

R.T.: 12.667 min
Delta R.T.: 0.000 min
Response: 5294934
Conc: 54.77 µg/ml



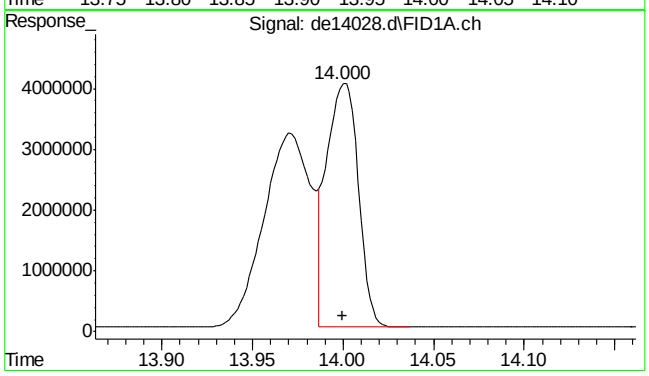
#15 chrysene

R.T.: 12.715 min
Delta R.T.: 0.000 min
Response: 5381317
Conc: 55.28 µg/ml



#16 benzo(B)fluoranthene

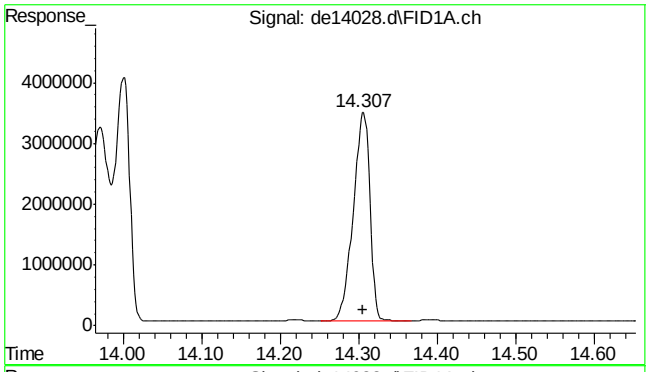
R.T.: 13.970 min
Delta R.T.: 0.002 min
Response: 5897230
Conc: 59.57 µg/ml



#17 benzo(k)fluoranthene

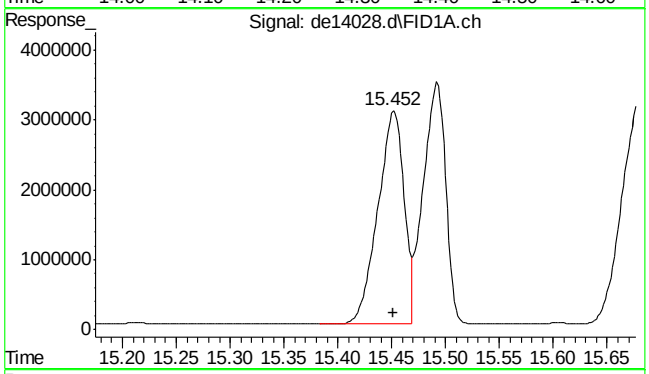
R.T.: 14.000 min
Delta R.T.: 0.000 min
Response: 4797606
Conc: 50.77 µg/ml

SGS ACCUTEST MC45678



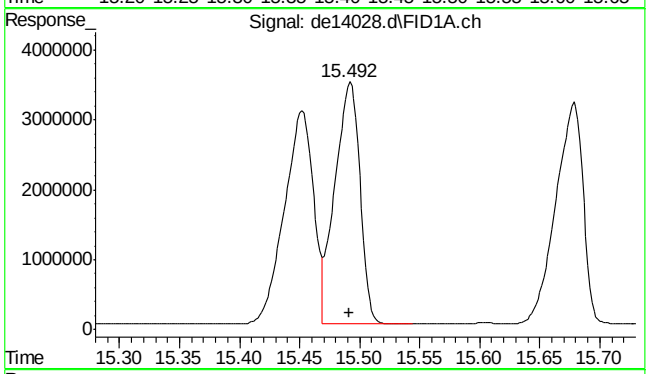
#18 benzo(a)pyrene

R.T.: 14.307 min
Delta R.T.: 0.002 min
Response: 5094954
Conc: 55.12 µg/ml



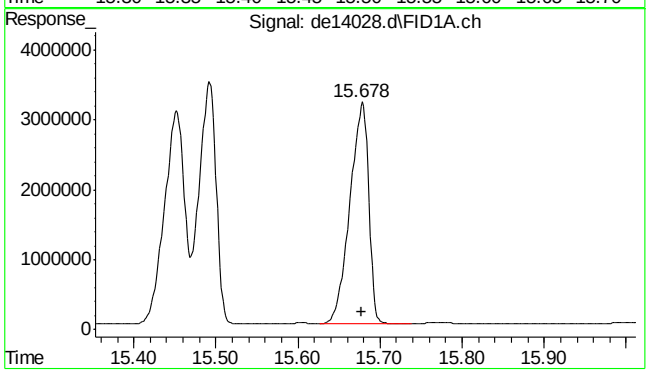
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.452 min
Delta R.T.: 0.000 min
Response: 5180044
Conc: 54.72 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.492 min
Delta R.T.: 0.000 min
Response: 5011105
Conc: 54.83 µg/ml m



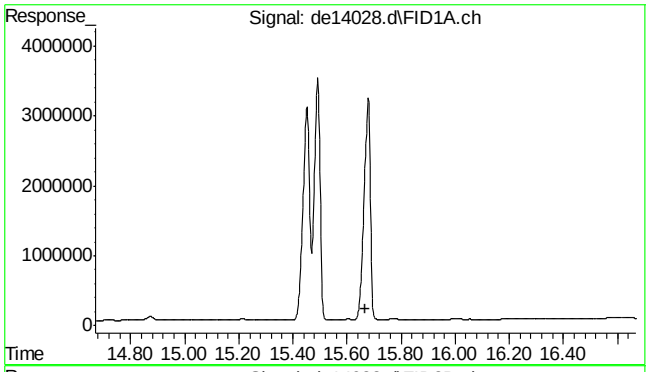
#21 benzo(ghi)perylene

R.T.: 15.678 min
Delta R.T.: 0.000 min
Response: 5010842
Conc: 54.39 µg/ml

9.5.10

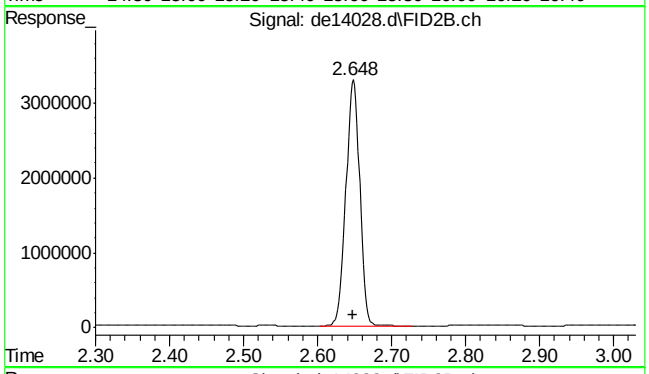
9

SGS ACCUTEST MC45678



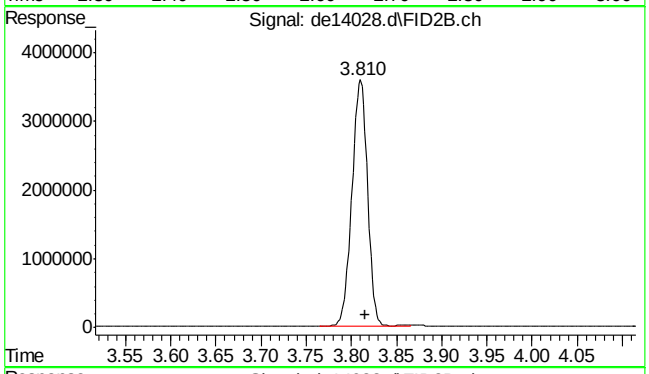
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



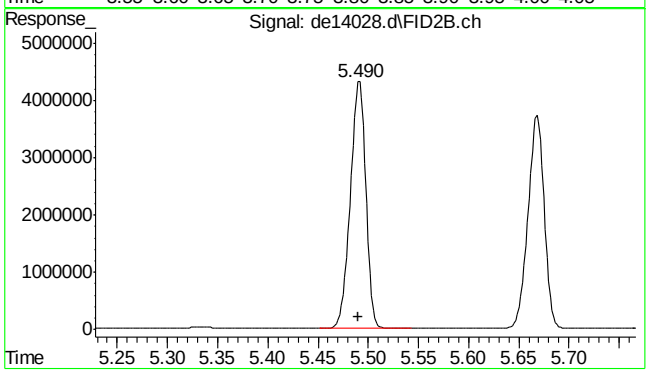
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4271293
Conc: 57.82 µg/ml m



#26 c-10

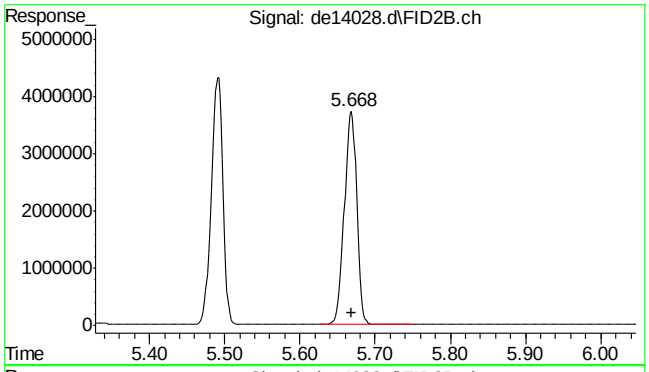
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4309948
Conc: 58.34 µg/ml



#27 naphthalene #2

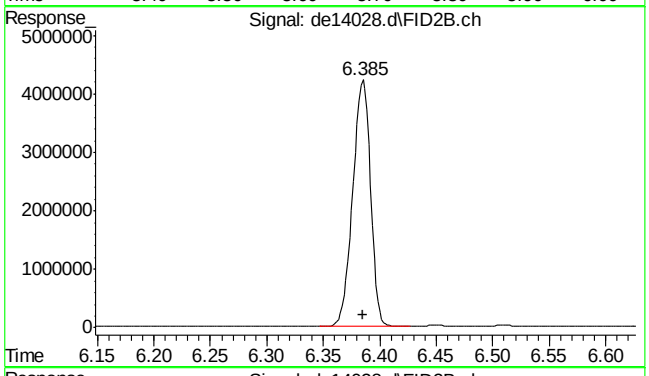
R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 4590426
Conc: 57.47 µg/ml

SGS ACCUTEST MC45678



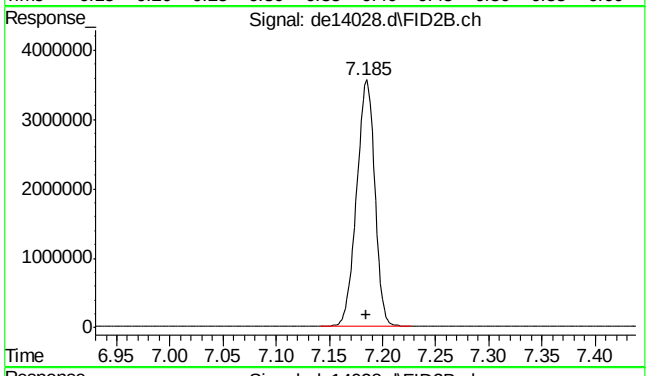
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 4255152
Conc: 57.60 µg/ml



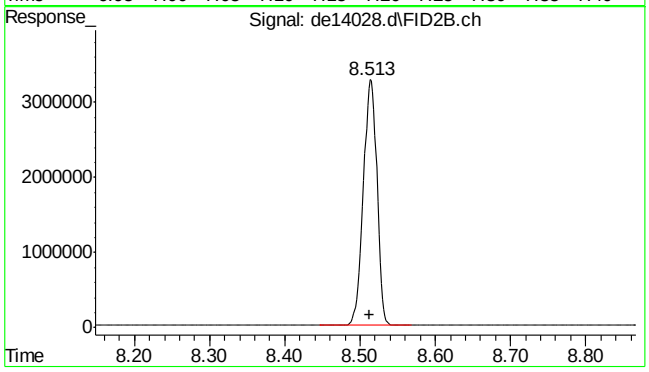
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4564712
Conc: 56.66 µg/ml



#30 c-14

R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 4198605
Conc: 56.84 µg/ml



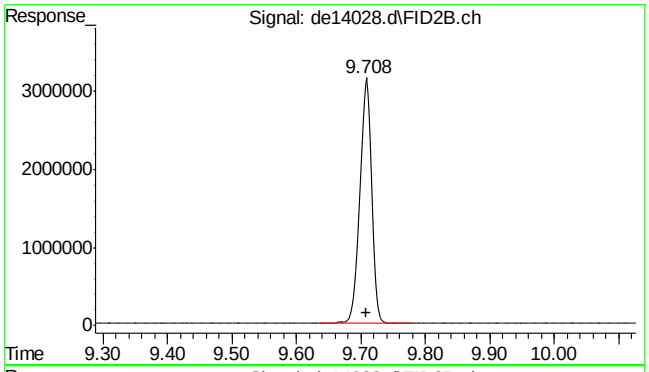
#31 c-16

R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 4120097
Conc: 55.77 µg/ml

9.5.10

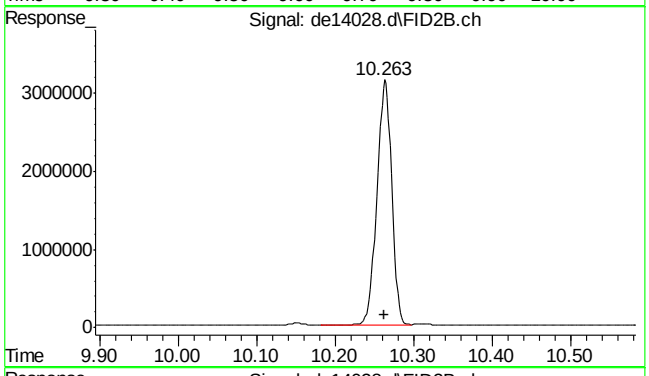
9

SGS ACCUTEST MC45678



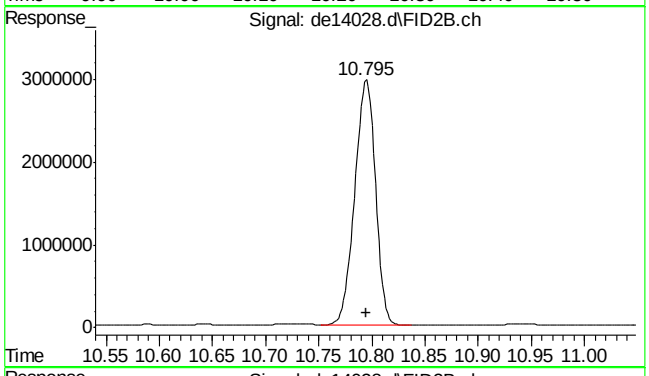
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 4122499
Conc: 55.81 µg/ml



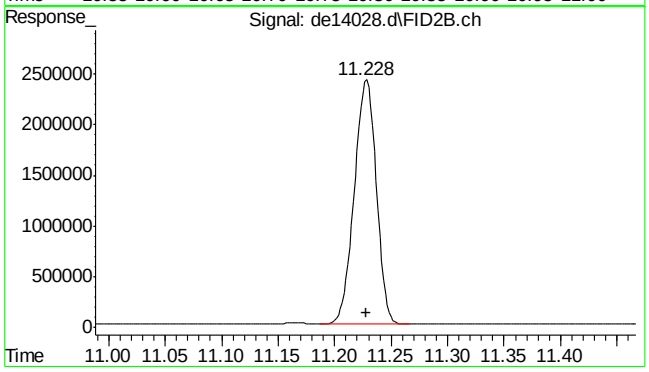
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 4100388
Conc: 61.38 µg/ml



#34 c-20

R.T.: 10.795 min
Delta R.T.: 0.000 min
Response: 4028341
Conc: 60.30 µg/ml



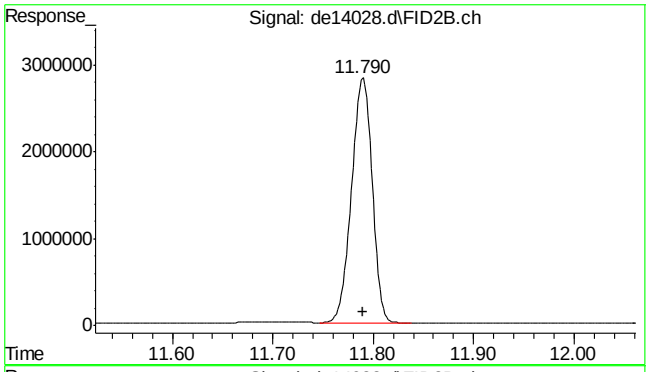
#35 1-chlorooctadecane

R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3262823
Conc: 57.67 µg/ml

9.5.10

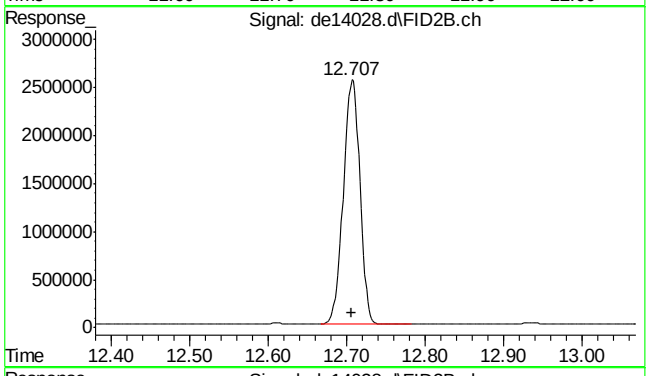
9

SGS ACCUTEST MC45678



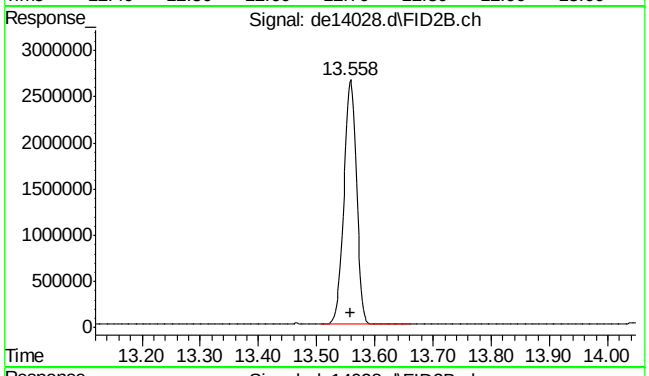
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 4006539
Conc: 59.97 µg/ml



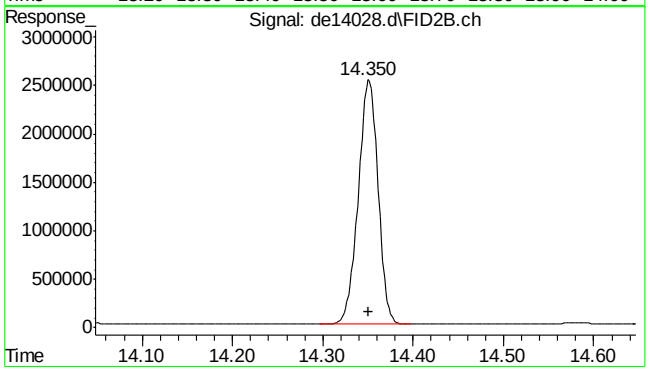
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3750881
Conc: 56.15 µg/ml



#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3987049
Conc: 59.68 µg/ml



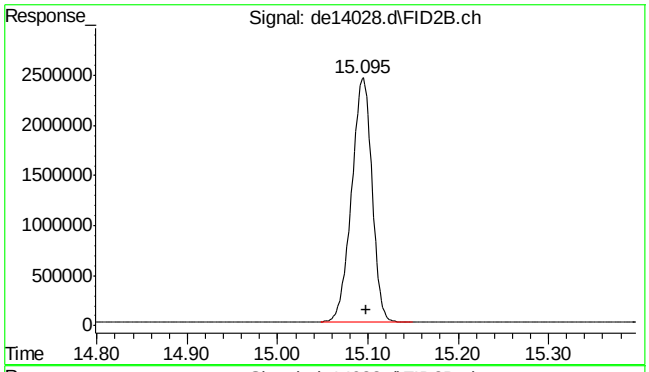
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3847007
Conc: 57.58 µg/ml

9.5.10

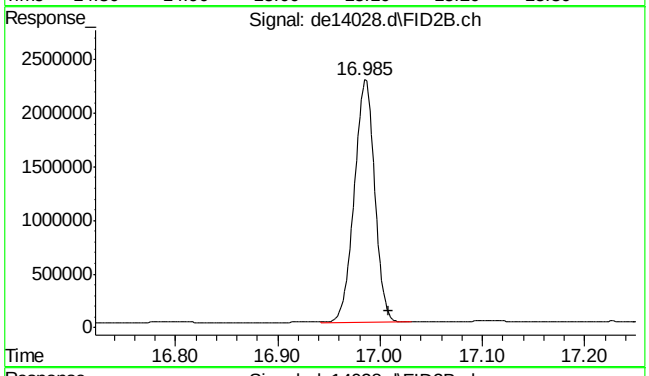
9

SGS ACCUTEST MC45678



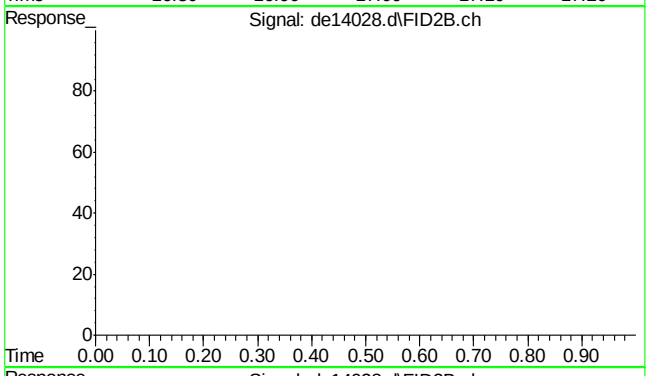
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3830270
Conc: 57.33 µg/ml



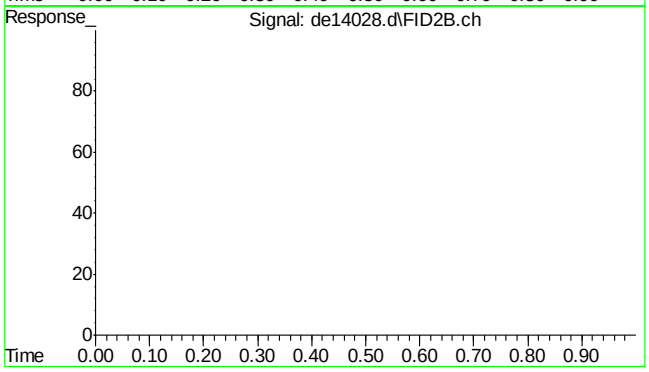
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3166489
Conc: 47.40 µg/ml m



#42 bht

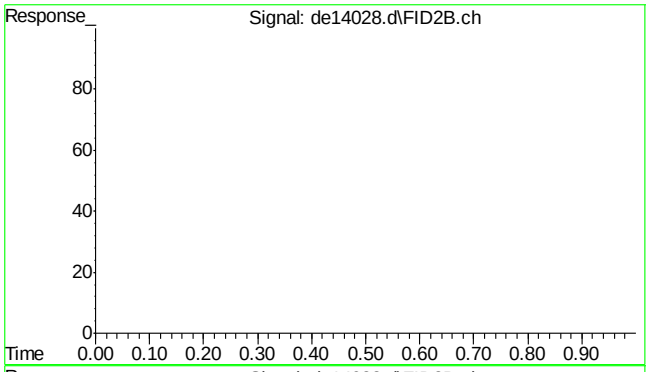
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

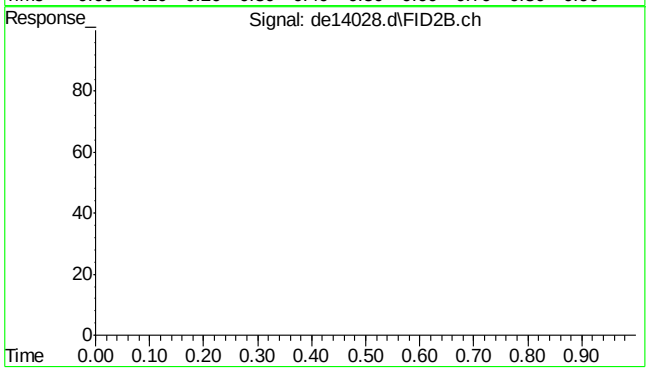
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678



#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.

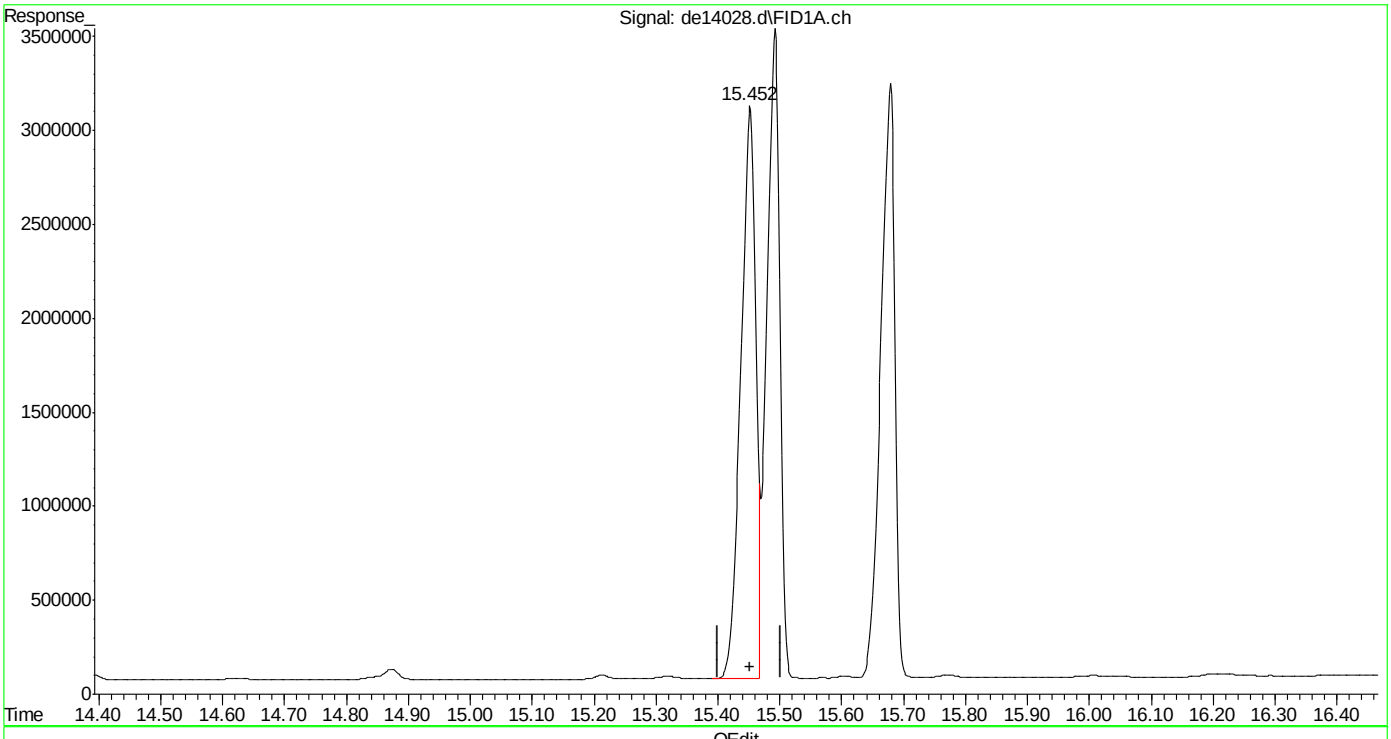
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:48 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:11:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.452min 53.647 µg/ml
response 5078142

(+) = Expected Retention Time
EPH160506W.M Fri May 06 12:11:43 2016

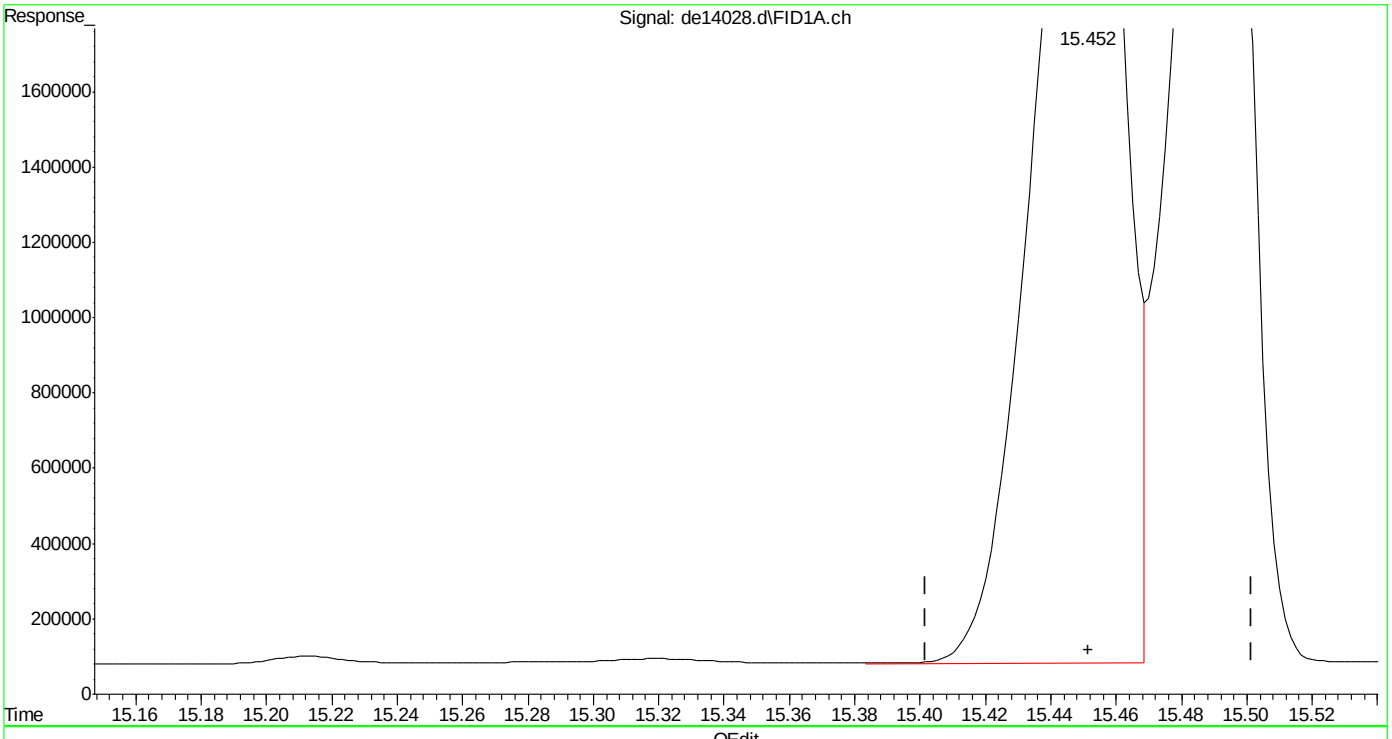
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:48 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:11:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.452min 54.724 µg/ml m
response 5180044

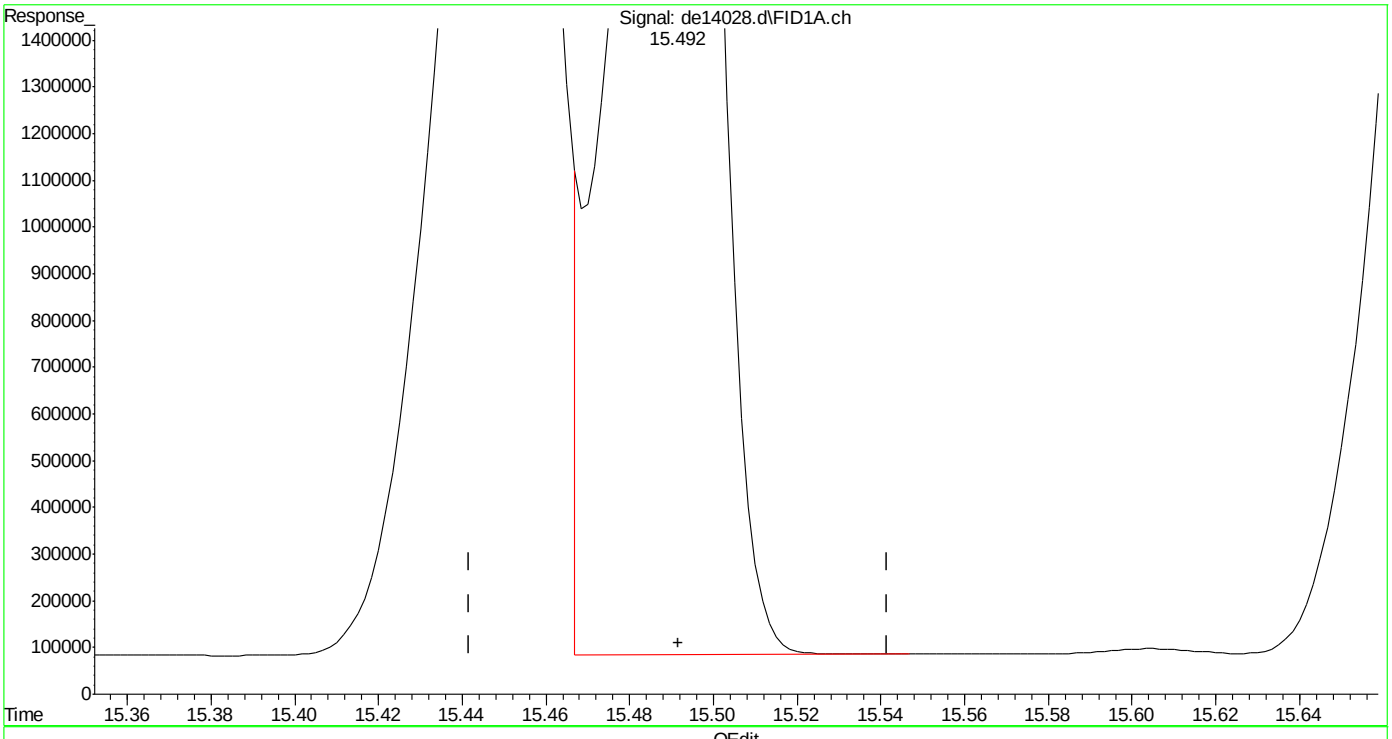
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:48 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:11:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.492min 55.750 µg/ml
response 5095512

(+) = Expected Retention Time

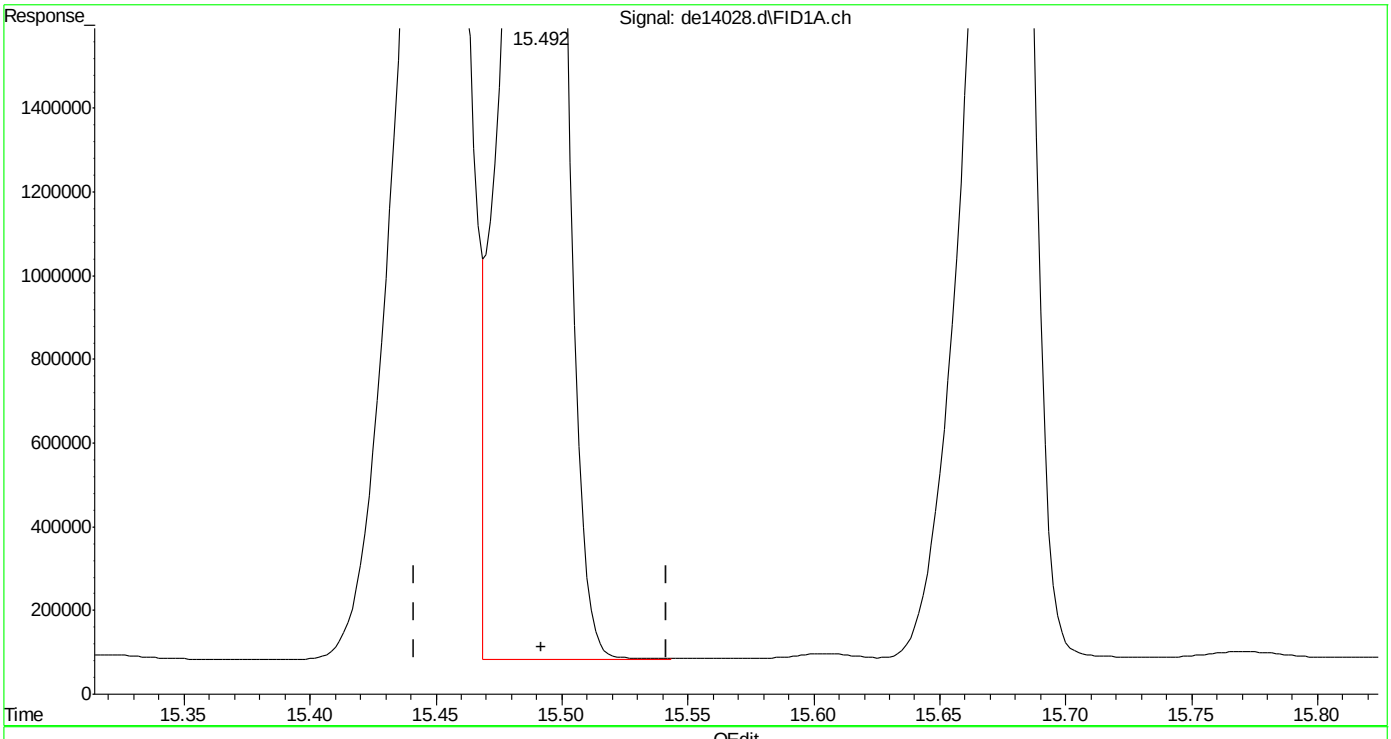
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160506EPH\
Data File : de14028.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 6 May 2016 11:48 am
Operator : thomasa
Sample : cc735-50, gde785
Misc : op47292,gde785,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 06 12:11:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160506W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 06 09:21:21 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
15.492min 54.827 µg/ml m
response 5011105

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/18/16 15:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 10:24:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	5018300	54.411 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 272.06%#	
6) s 2-bromonaphthalene	7.333	3374225	53.768 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 268.84%#	
11) s o-terphenyl	9.872	5525584	53.947 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 269.74%#	
35) s 1-chlorooctadecane	11.227	3374430	59.645 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 298.23%#	
Target Compounds			
2) naphthalene	5.152	5660291	54.880 µg/ml
3) 2-methylnaphthalene	6.052	5527933	53.941 µg/ml
5) acenaphthylene	7.167	5522515	54.895 µg/ml
7) acenaphthene	7.407	5726087	55.391 µg/ml
8) fluorene	8.052	5544122	54.586 µg/ml
9) phenanthrene	9.232	5510002	54.145 µg/ml
10) anthracene	9.290	5285311	54.483 µg/ml
12) fluoranthene	10.735	5390506	53.937 µg/ml
13) pyrene	10.993	5523311	54.437 µg/ml
14) benzo(a)anthracene	12.555	5157747	53.351 µg/mlm
15) chrysene	12.603	5209964	53.523 µg/mlm
16) benzo(B)fluoranthene	13.855	5439877	54.947 µg/mlm
17) benzo(k)fluoranthene	13.883	4931033	52.179 µg/mlm
18) benzo(a)pyrene	14.187	4924253	53.272 µg/ml
19) indeno(1,2,3-cd)pyrene	15.328	4992629	52.744 µg/ml
20) dibenzo(ah)anthracene	15.370	4845433	53.014 µg/ml
21) benzo(ghi)perylene	15.552	4882182	52.996 µg/ml
25) h c-9	2.648	4259555	57.661 µg/mlm
26) h c-10	3.815	4302647	58.245 µg/ml
27) naphthalene #2	5.488	4600529	57.599 µg/ml
28) c-12	5.667	4281358	57.956 µg/ml
29) 2-methylnaphthalene #2	6.383	4601796	57.118 µg/ml
30) c-14	7.183	4273386	57.848 µg/ml
31) c-16	8.513	4262066	57.695 µg/ml
32) c-18	9.707	4286305	58.023 µg/ml
33) c-19	10.262	4257083	63.723 µg/ml
34) c-20	10.793	4176650	62.519 µg/ml
36) c-22	11.788	4154291	62.184 µg/ml
37) c-24	12.705	3883740	58.134 µg/ml
38) c-26	13.558	4126988	61.775 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 10:24:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	3975914	59.514 µg/ml
40) h	c-30	15.098	3964659	59.345 µg/ml
41) h	c-36	17.008	3432297	51.377 µg/mlm

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

9.5.11

9

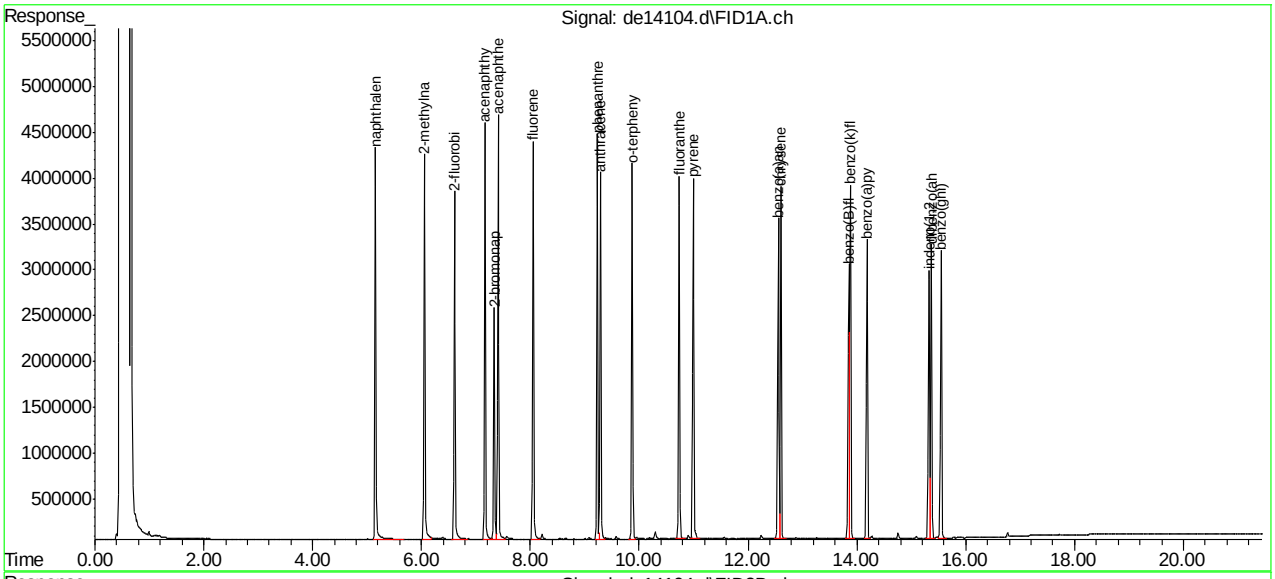
SGS ACCUTEST MC45678

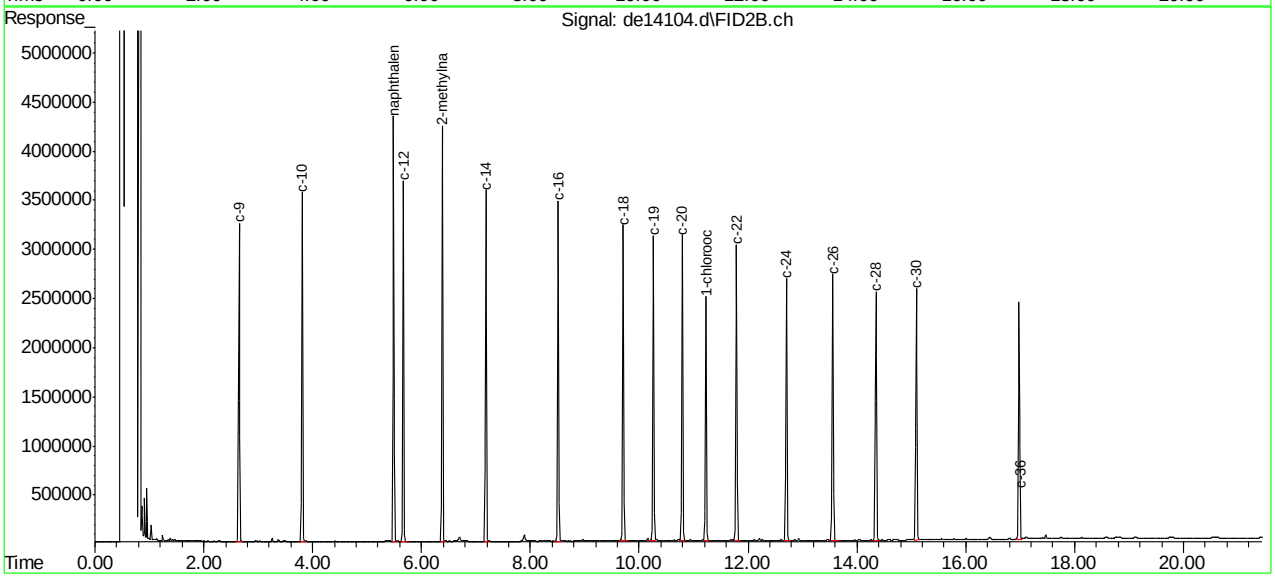
Quantitation Report (QT Reviewed)

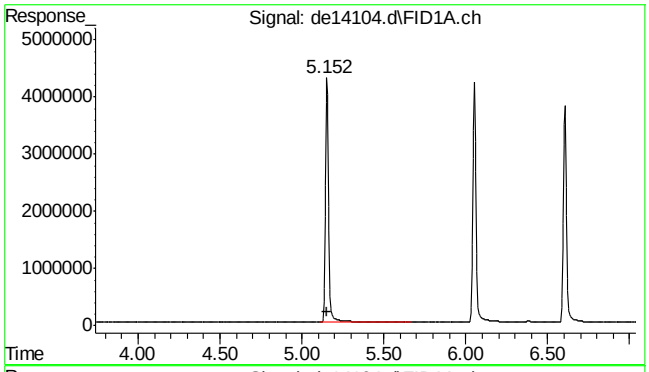
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 10:24:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

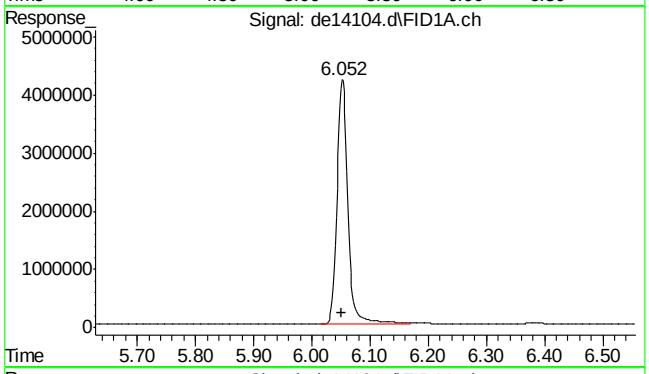






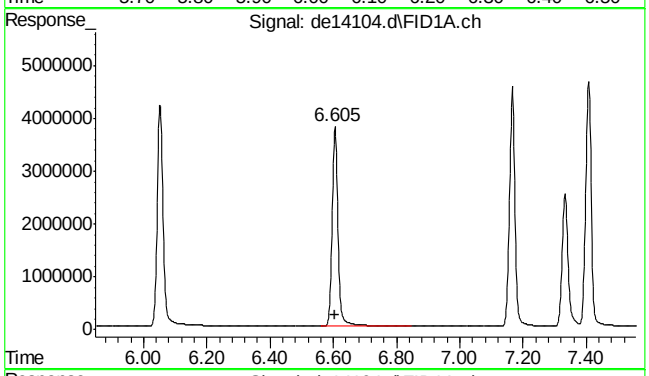
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.000 min
Response: 5660291
Conc: 54.88 µg/ml



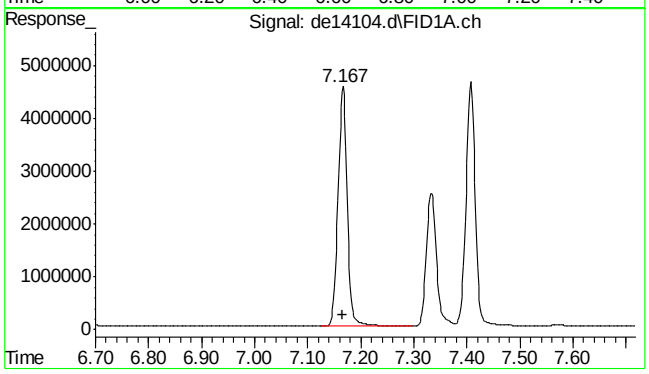
#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.000 min
Response: 5527933
Conc: 53.94 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 5018300
Conc: 54.41 µg/ml



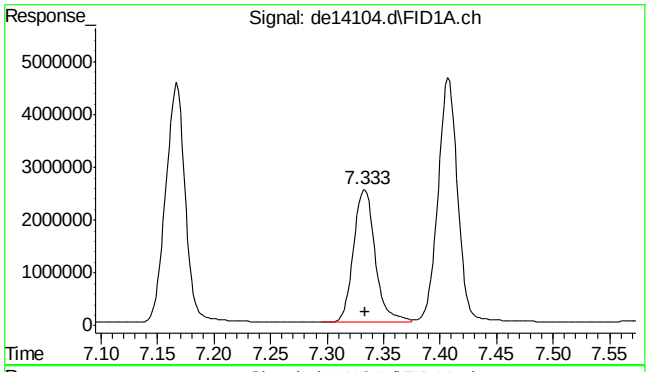
#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 5522515
Conc: 54.89 µg/ml

9.5.11

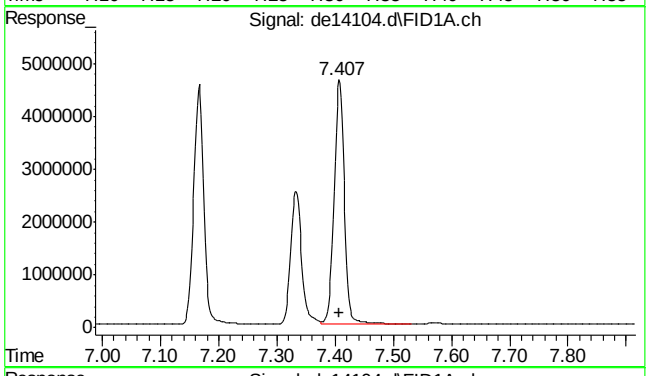
9

SGS ACCUTEST MC45678



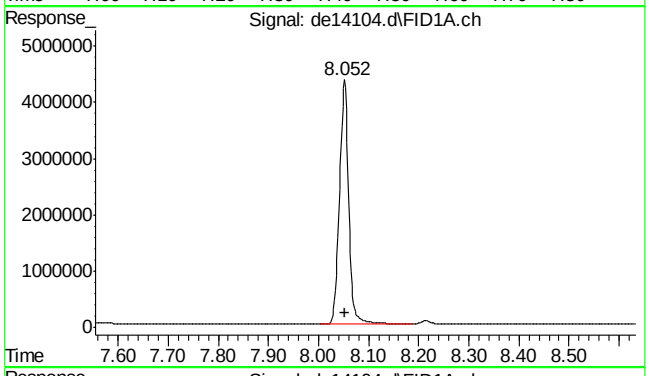
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 3374225
Conc: 53.77 µg/ml



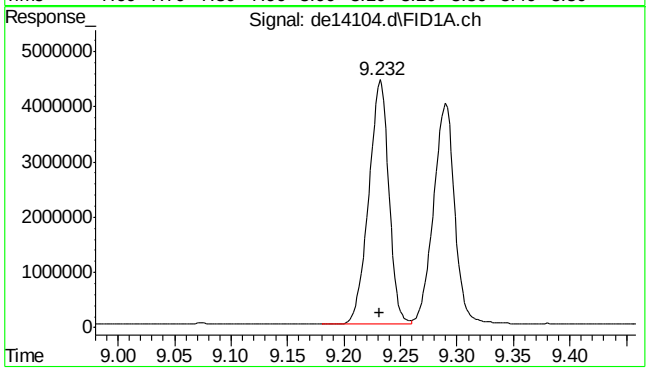
#7 acenaphthene

R.T.: 7.407 min
Delta R.T.: 0.000 min
Response: 5726087
Conc: 55.39 µg/ml



#8 fluorene

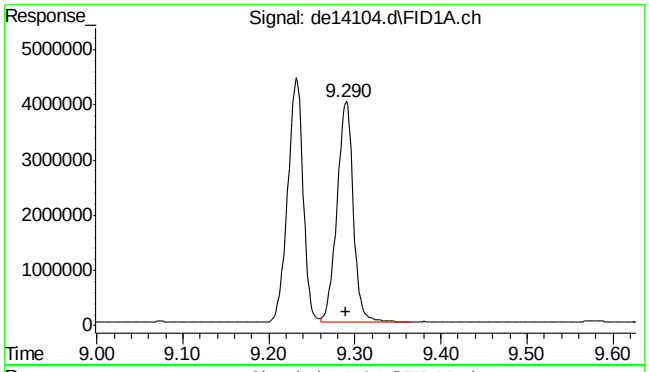
R.T.: 8.052 min
Delta R.T.: 0.000 min
Response: 5544122
Conc: 54.59 µg/ml



#9 phenanthrene

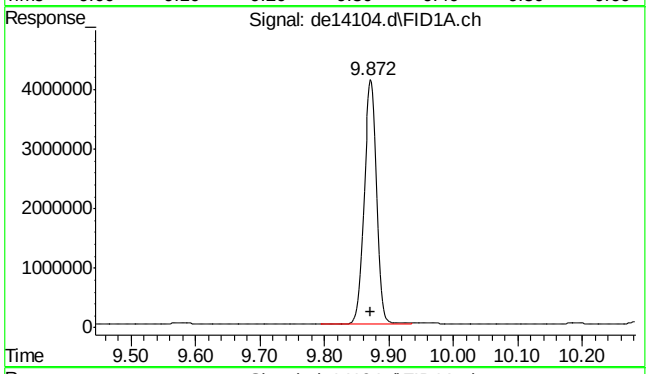
R.T.: 9.232 min
Delta R.T.: 0.000 min
Response: 5510002
Conc: 54.15 µg/ml

SGS ACCUTEST MC45678



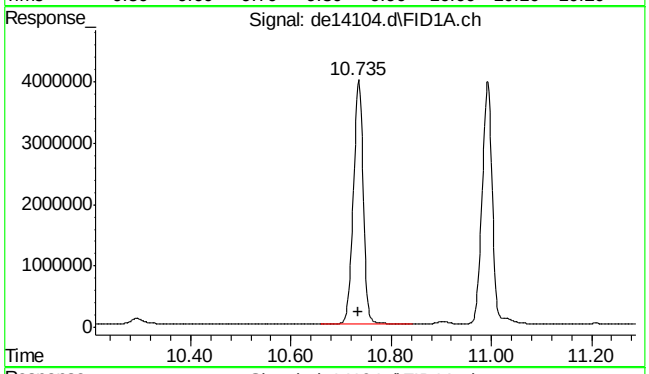
#10 anthracene

R.T.: 9.290 min
Delta R.T.: 0.000 min
Response: 5285311
Conc: 54.48 µg/ml



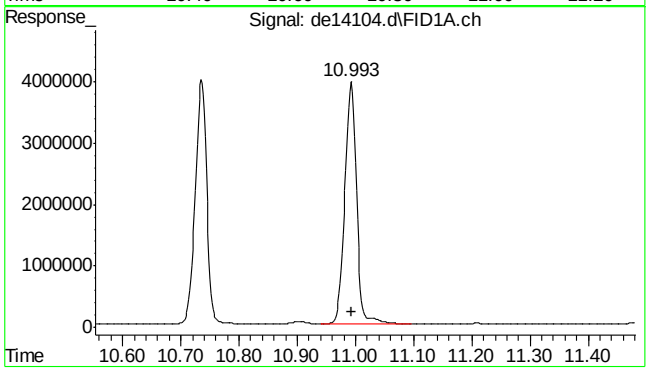
#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: 0.000 min
Response: 5525584
Conc: 53.95 µg/ml



#12 fluoranthene

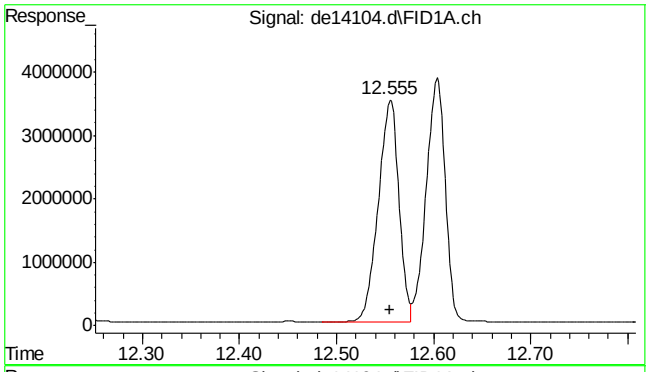
R.T.: 10.735 min
Delta R.T.: 0.000 min
Response: 5390506
Conc: 53.94 µg/ml



#13 pyrene

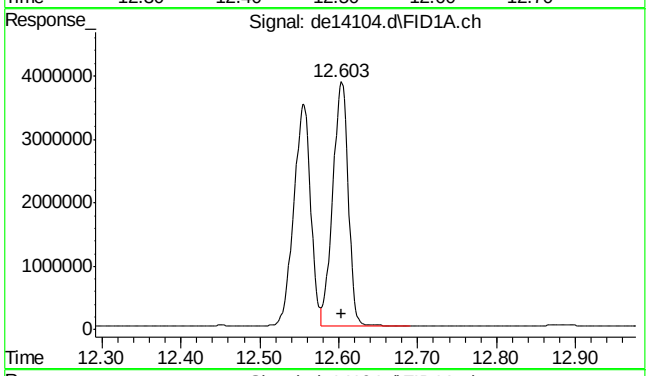
R.T.: 10.993 min
Delta R.T.: 0.000 min
Response: 5523311
Conc: 54.44 µg/ml

SGS ACCUTEST MC45678



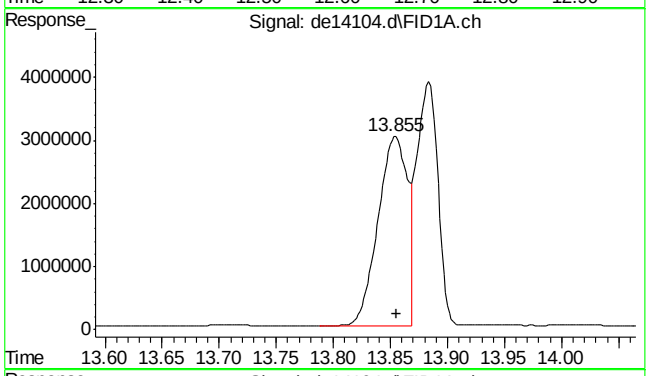
#14 benzo(a)anthracene

R.T.: 12.555 min
Delta R.T.: 0.000 min
Response: 5157747
Conc: 53.35 µg/ml m



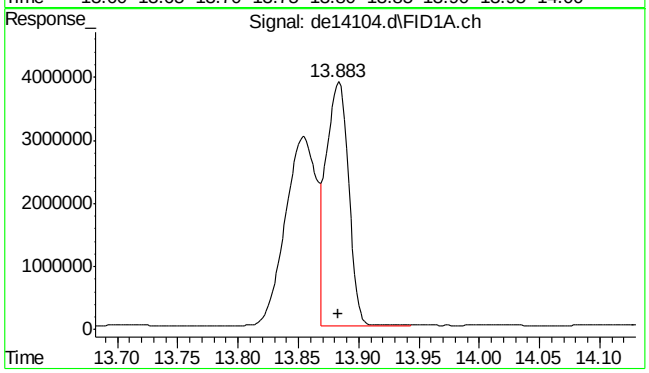
#15 chrysene

R.T.: 12.603 min
Delta R.T.: 0.000 min
Response: 5209964
Conc: 53.52 µg/ml m



#16 benzo(B)fluoranthene

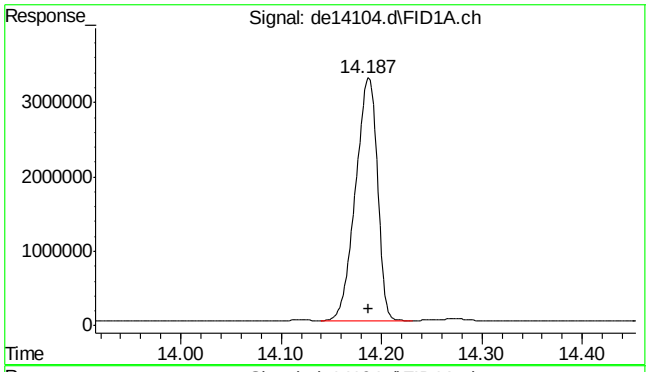
R.T.: 13.855 min
Delta R.T.: 0.000 min
Response: 5439877
Conc: 54.95 µg/ml m



#17 benzo(k)fluoranthene

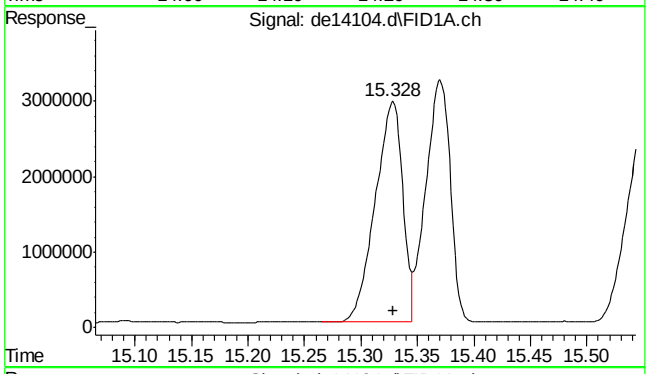
R.T.: 13.883 min
Delta R.T.: 0.000 min
Response: 4931033
Conc: 52.18 µg/ml m

SGS ACCUTEST MC45678



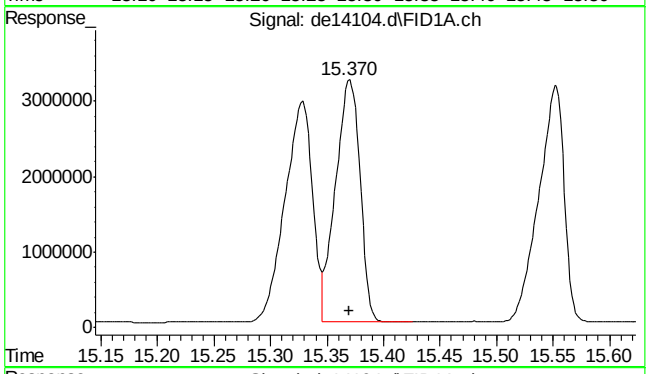
#18 benzo(a)pyrene

R.T.: 14.187 min
Delta R.T.: 0.000 min
Response: 4924253
Conc: 53.27 µg/ml



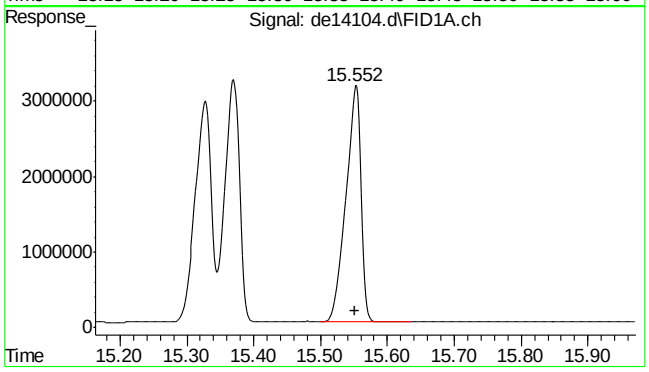
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.328 min
Delta R.T.: 0.000 min
Response: 4992629
Conc: 52.74 µg/ml



#20 dibenzo(ah)anthracene

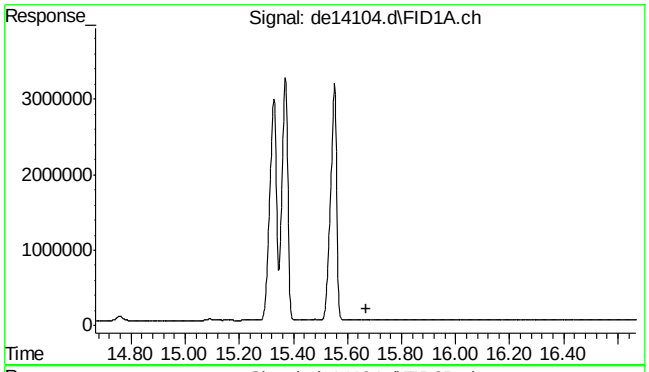
R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 4845433
Conc: 53.01 µg/ml



#21 benzo(ghi)perylene

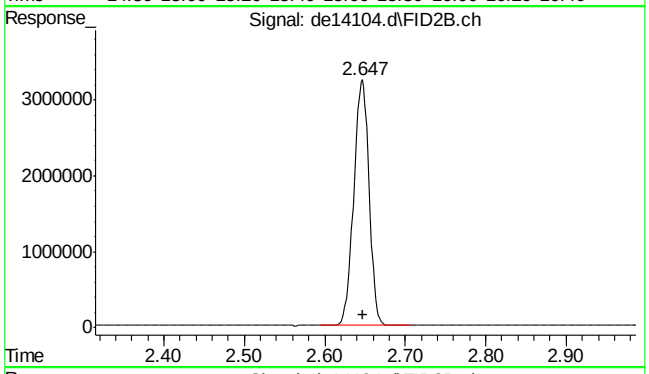
R.T.: 15.552 min
Delta R.T.: 0.000 min
Response: 4882182
Conc: 53.00 µg/ml

SGS ACCUTEST MC45678



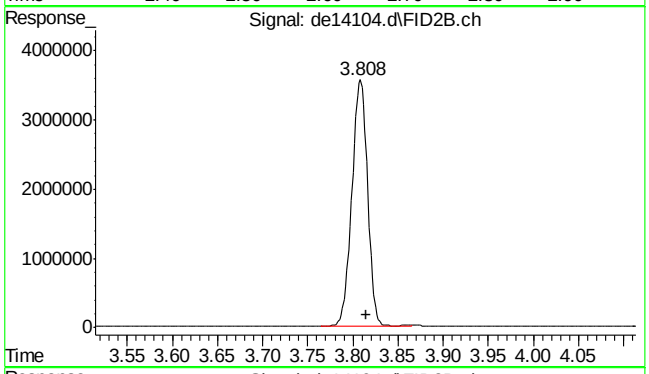
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



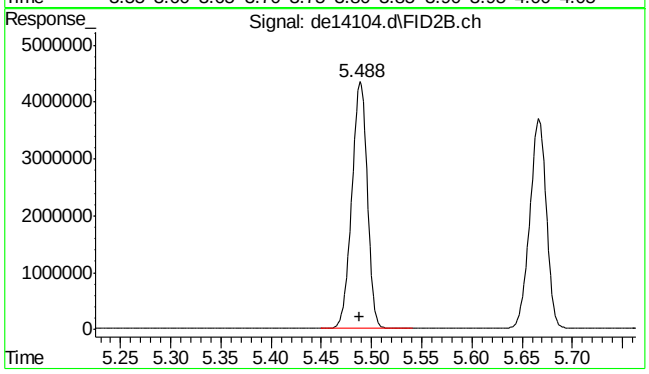
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4259555
Conc: 57.66 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4302647
Conc: 58.24 µg/ml

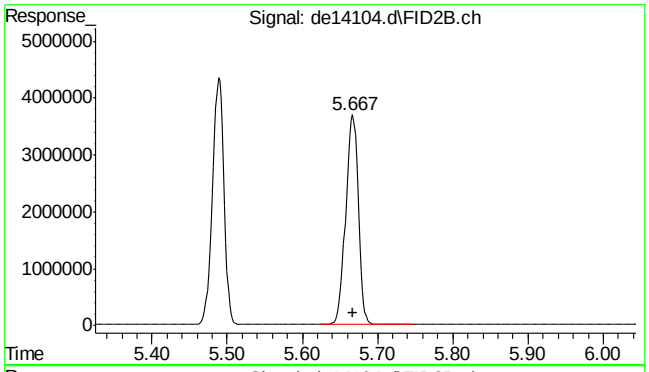


#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4600529
Conc: 57.60 µg/ml

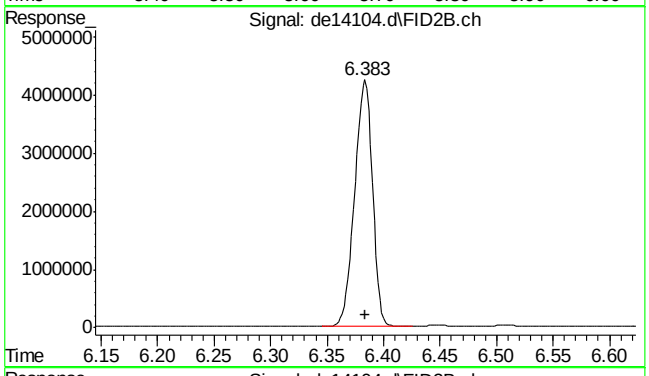
9.5.11

9



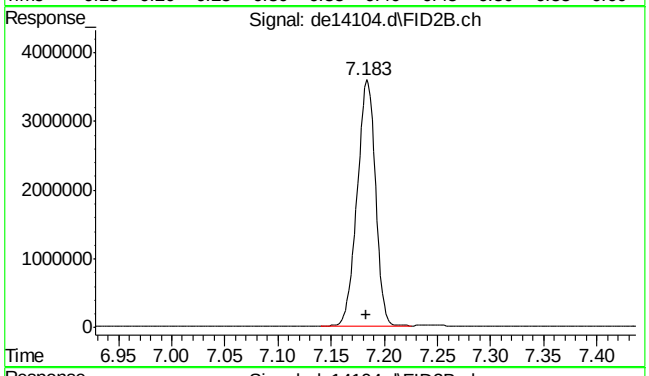
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 4281358
Conc: 57.96 µg/ml



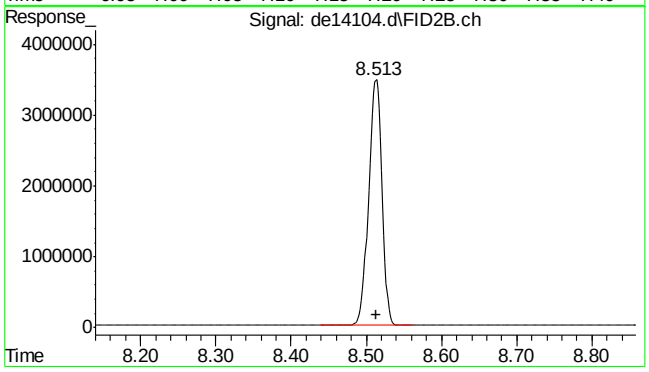
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4601796
Conc: 57.12 µg/ml



#30 c-14

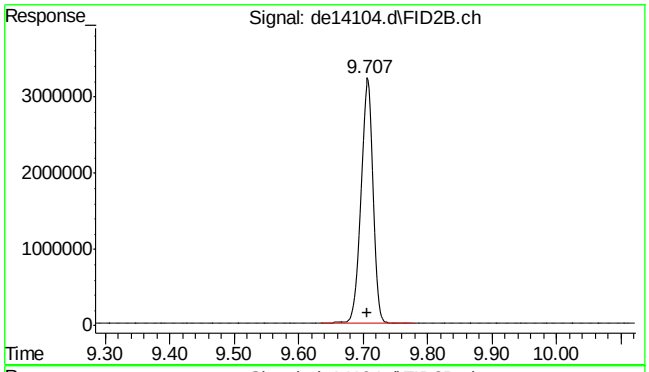
R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 4273386
Conc: 57.85 µg/ml



#31 c-16

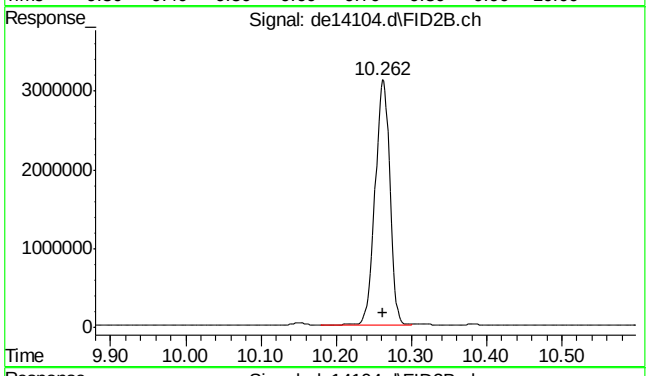
R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 4262066
Conc: 57.70 µg/ml

SGS ACCUTEST MC45678



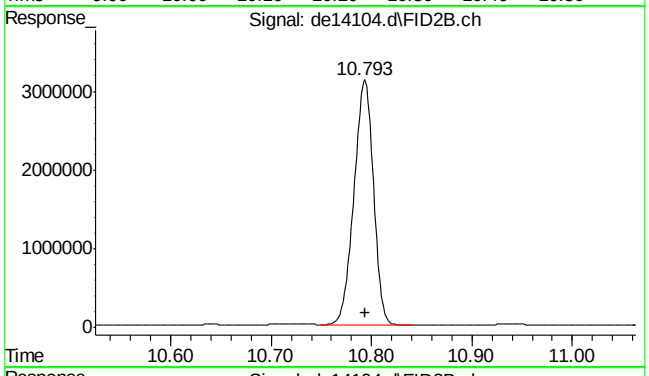
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 4286305
Conc: 58.02 µg/ml



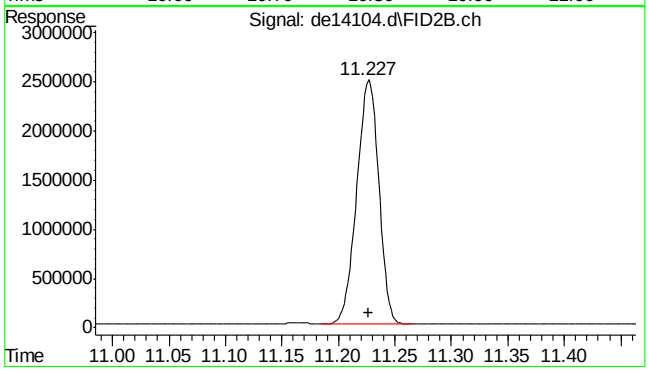
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 4257083
Conc: 63.72 µg/ml



#34 c-20

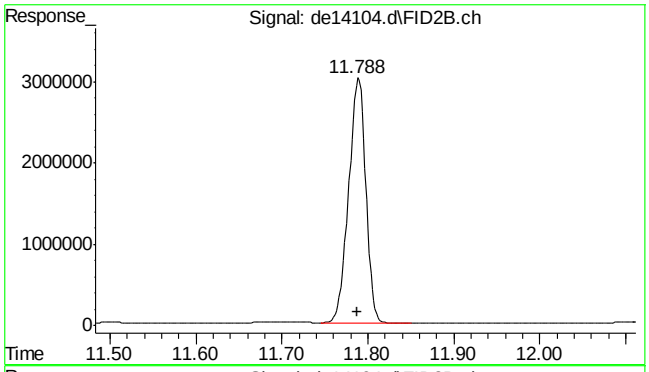
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 4176650
Conc: 62.52 µg/ml



#35 1-chlorooctadecane

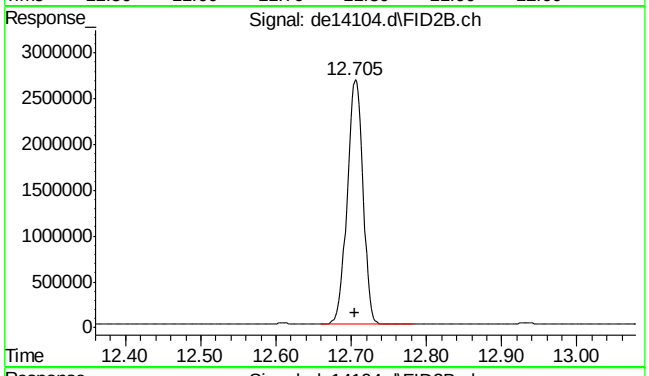
R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 3374430
Conc: 59.65 µg/ml

SGS ACCUTEST MC45678



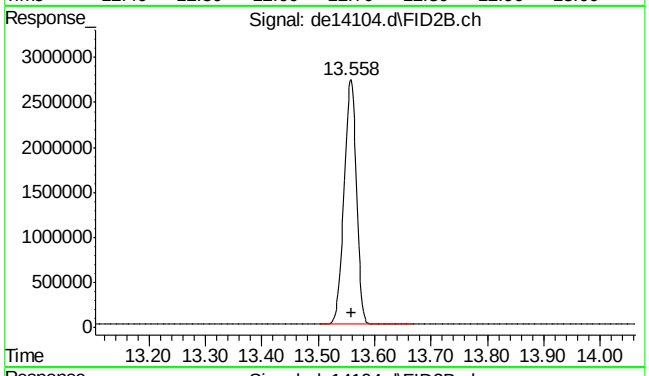
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 4154291
Conc: 62.18 µg/ml



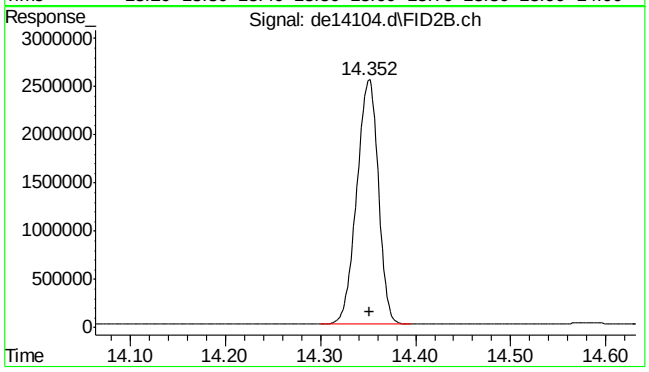
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3883740
Conc: 58.13 µg/ml



#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 4126988
Conc: 61.78 µg/ml



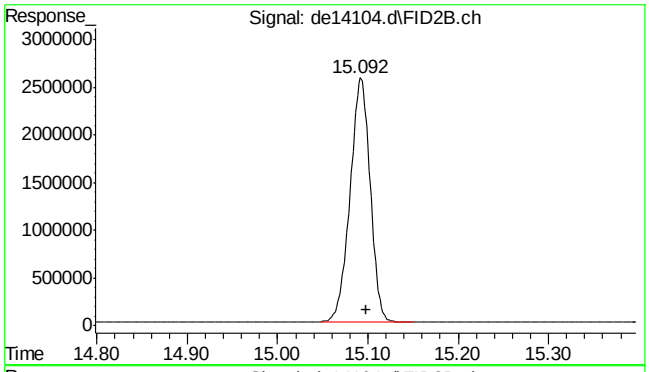
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.000 min
Response: 3975914
Conc: 59.51 µg/ml

9.5.11

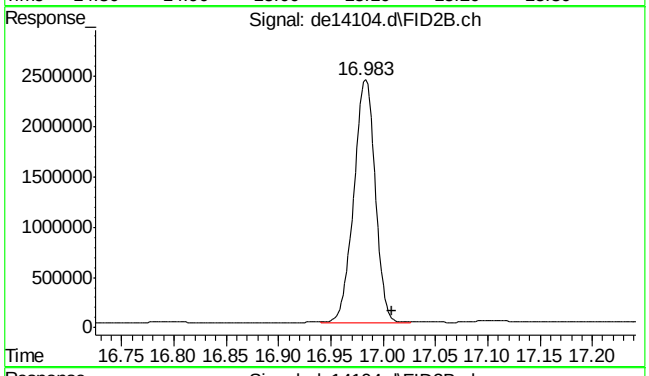
9

SGS ACCUTEST MC45678



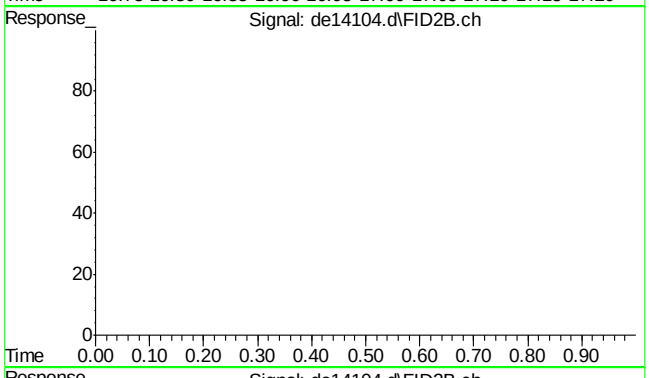
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3964659
Conc: 59.35 µg/ml



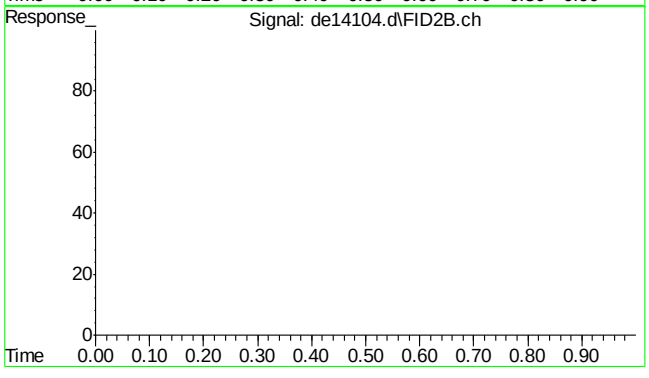
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3432297
Conc: 51.38 µg/ml m



#42 bht

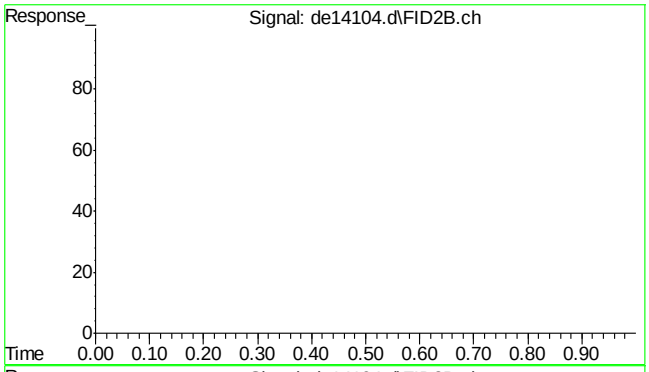
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

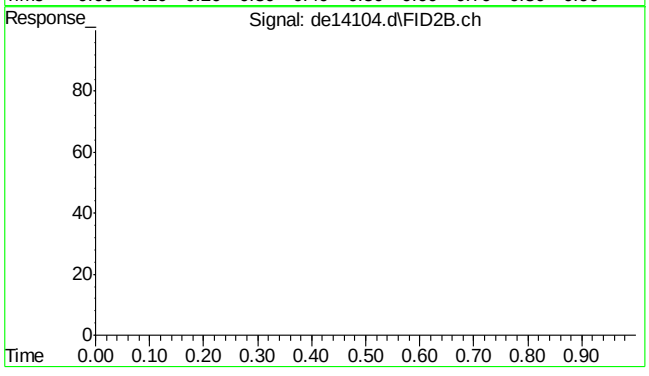
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678



#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.

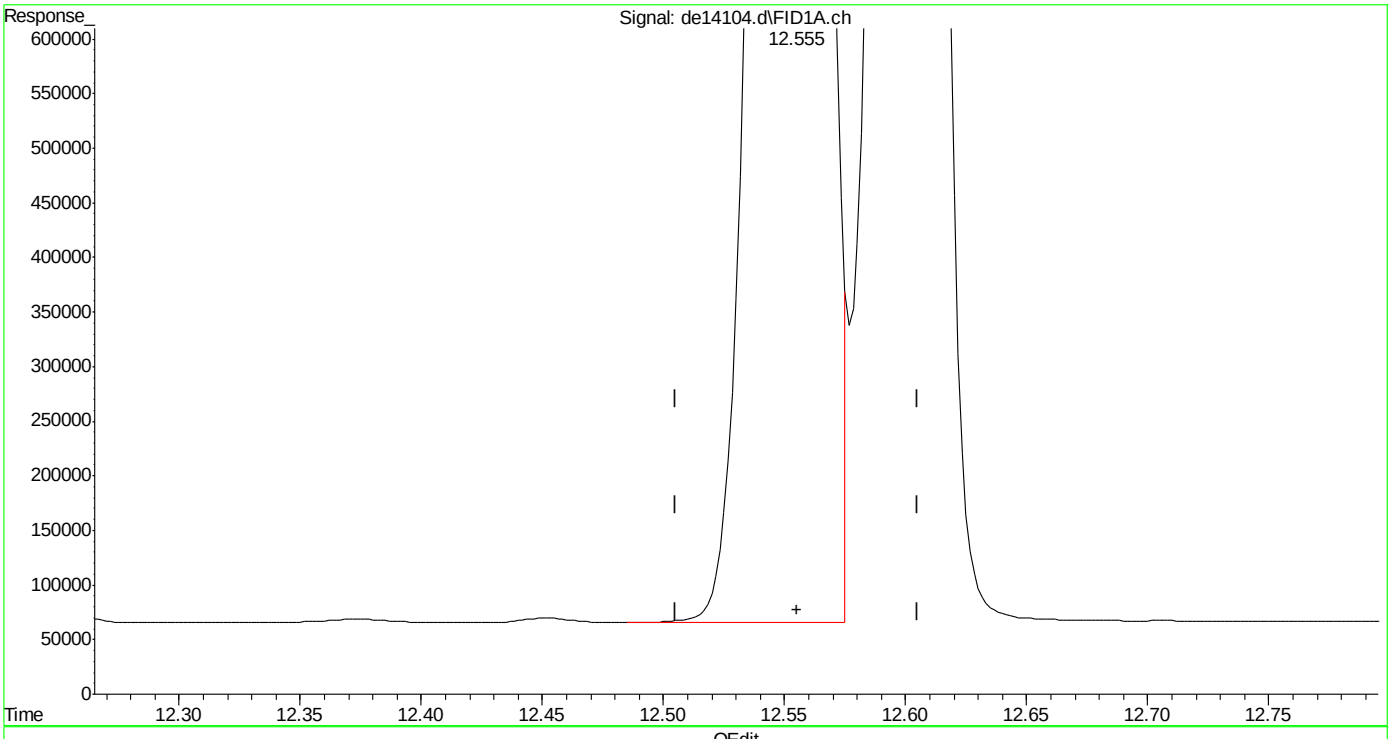
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
12.555min 53.069 µg/ml
response 5130441

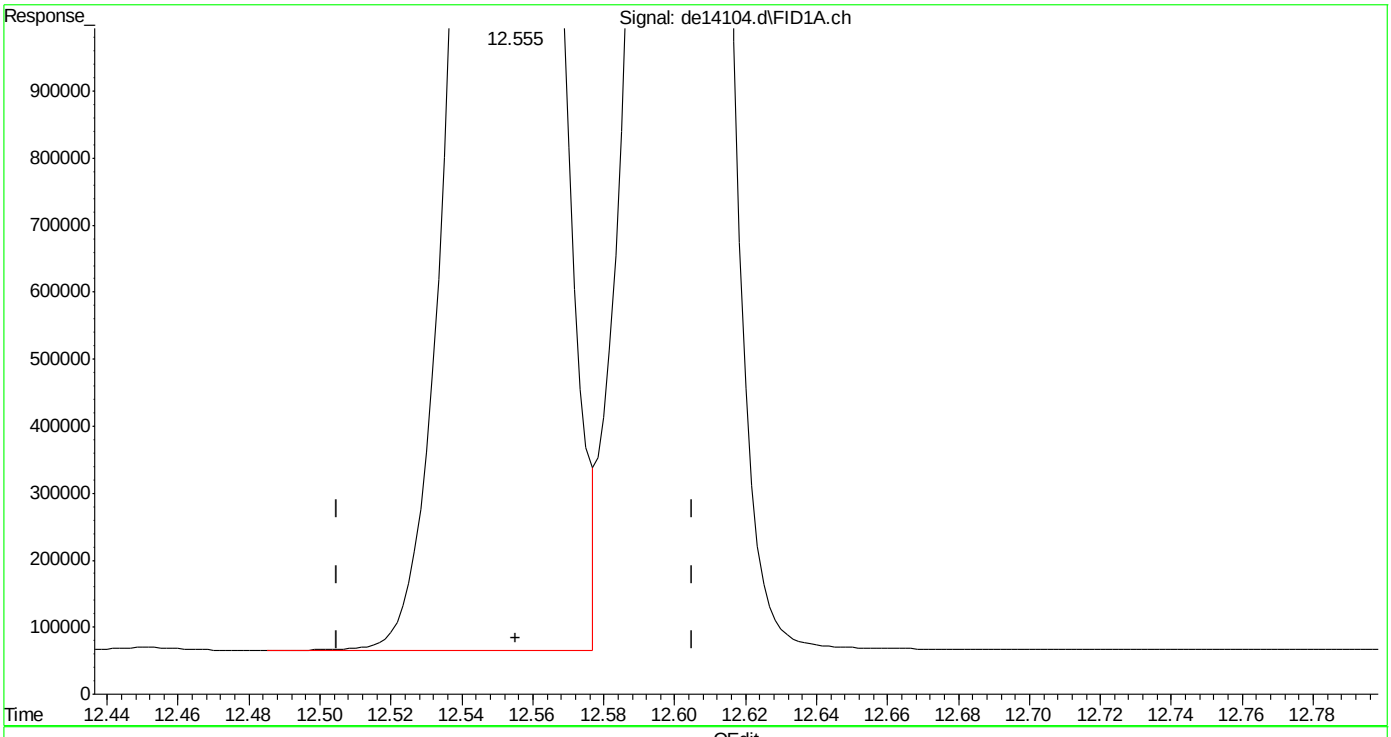
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
12.555min 53.351 µg/ml m
response 5157747

(+) = Expected Retention Time
EPH160518W.M Wed May 18 10:22:58 2016

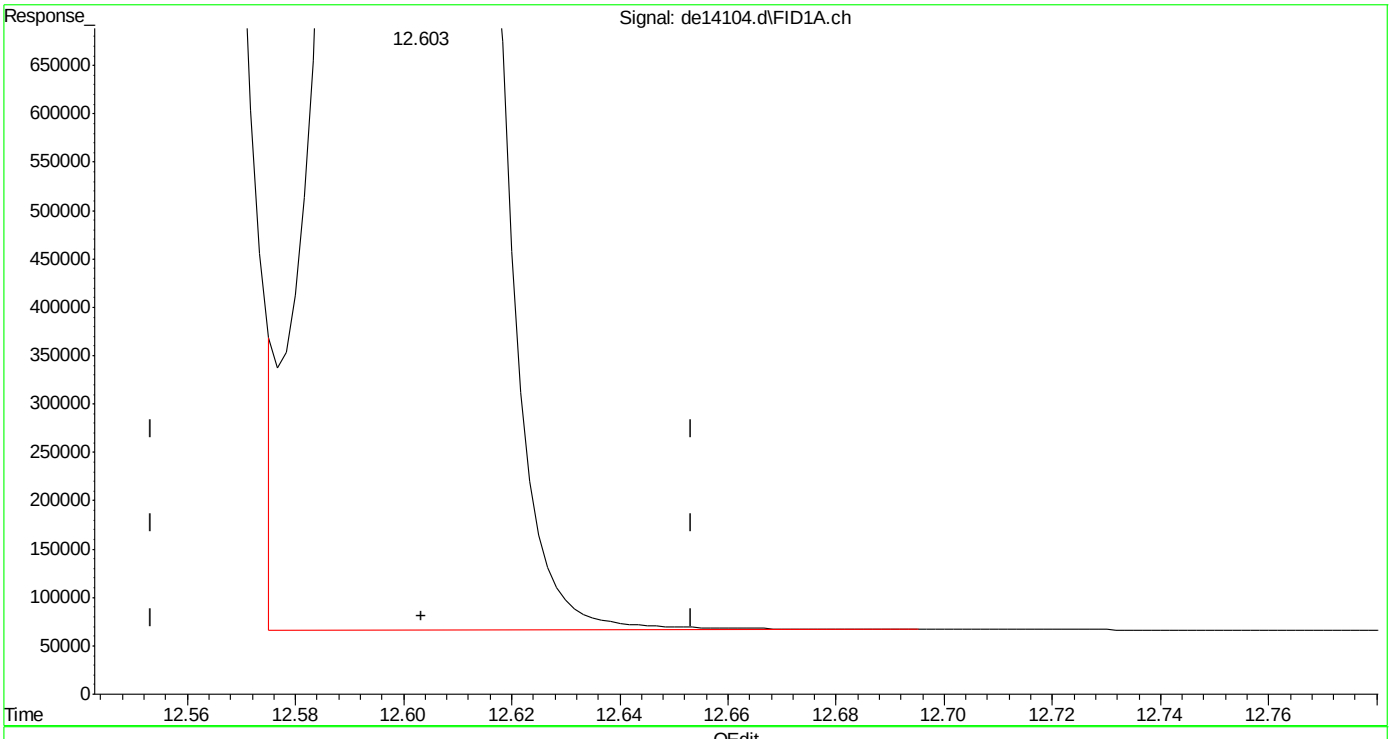
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.603min 53.690 µg/ml
response 5226192

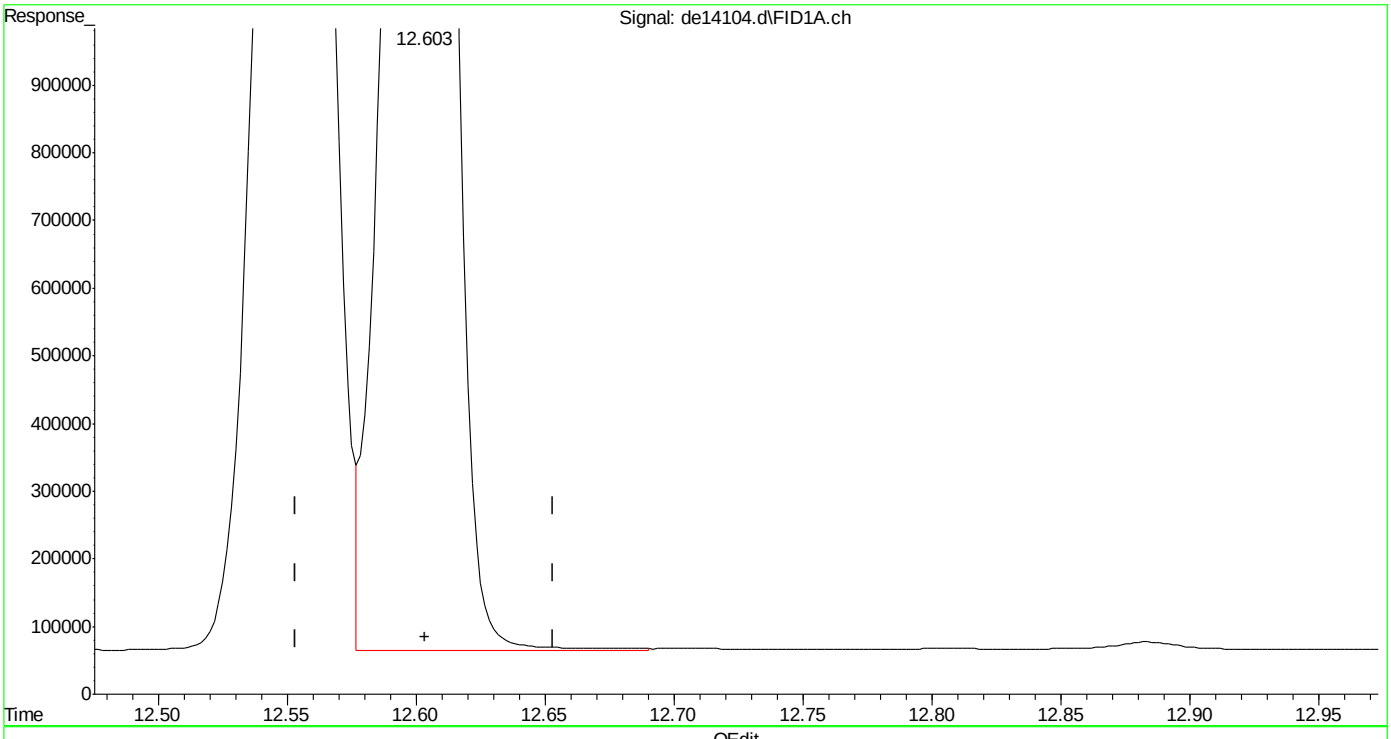
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.603min 53.523 µg/ml m
response 5209964

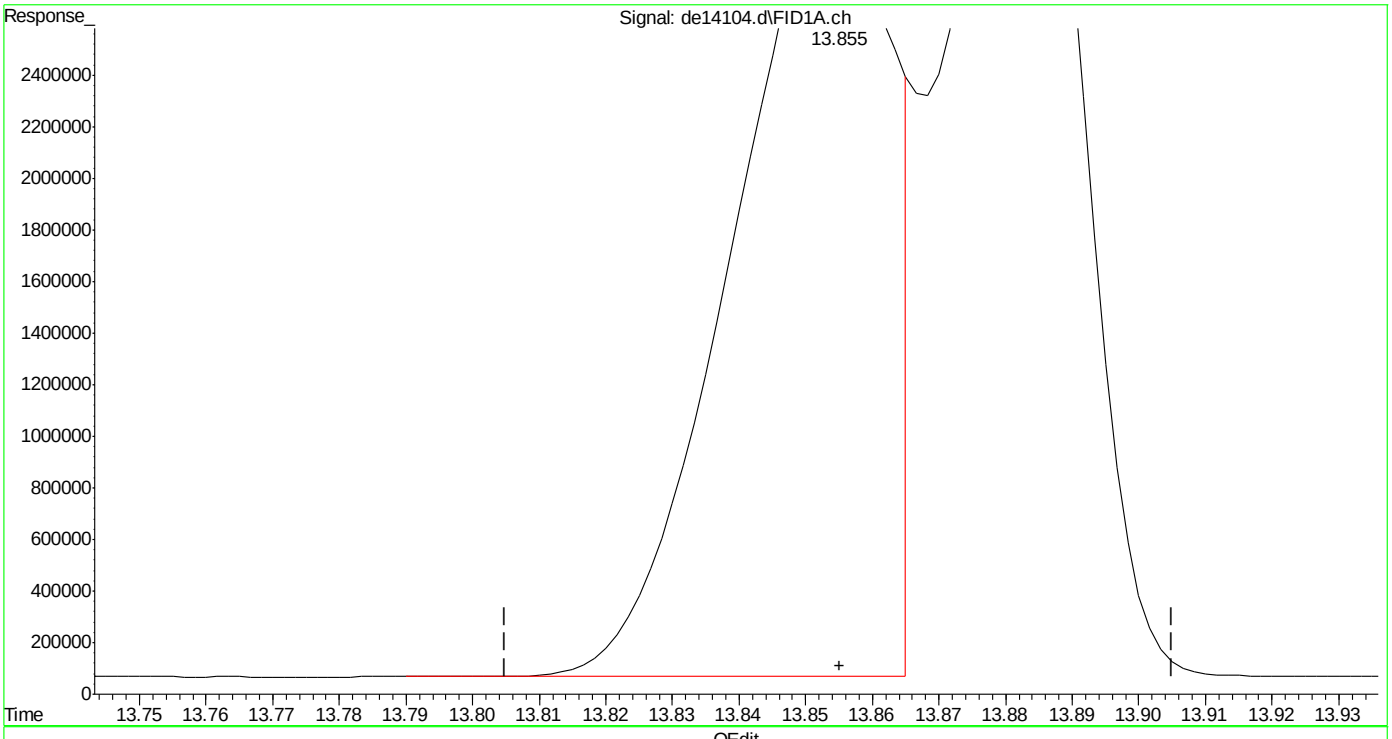
(+) = Expected Retention Time
EPH160518W.M Wed May 18 10:23:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.855min 50.383 µg/ml
response 4988072

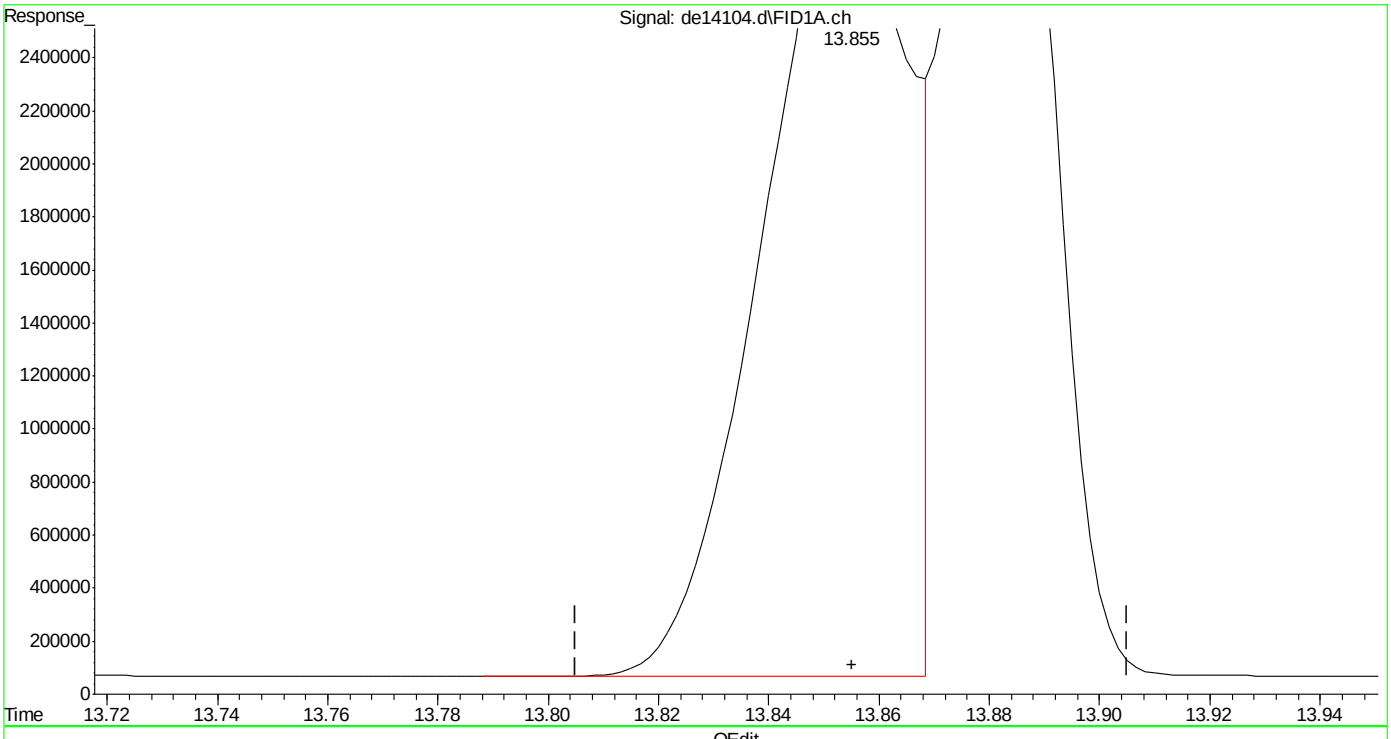
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.855min 54.947 µg/ml m
response 5439877

(+) = Expected Retention Time
EPH160518W.M Wed May 18 10:23:44 2016

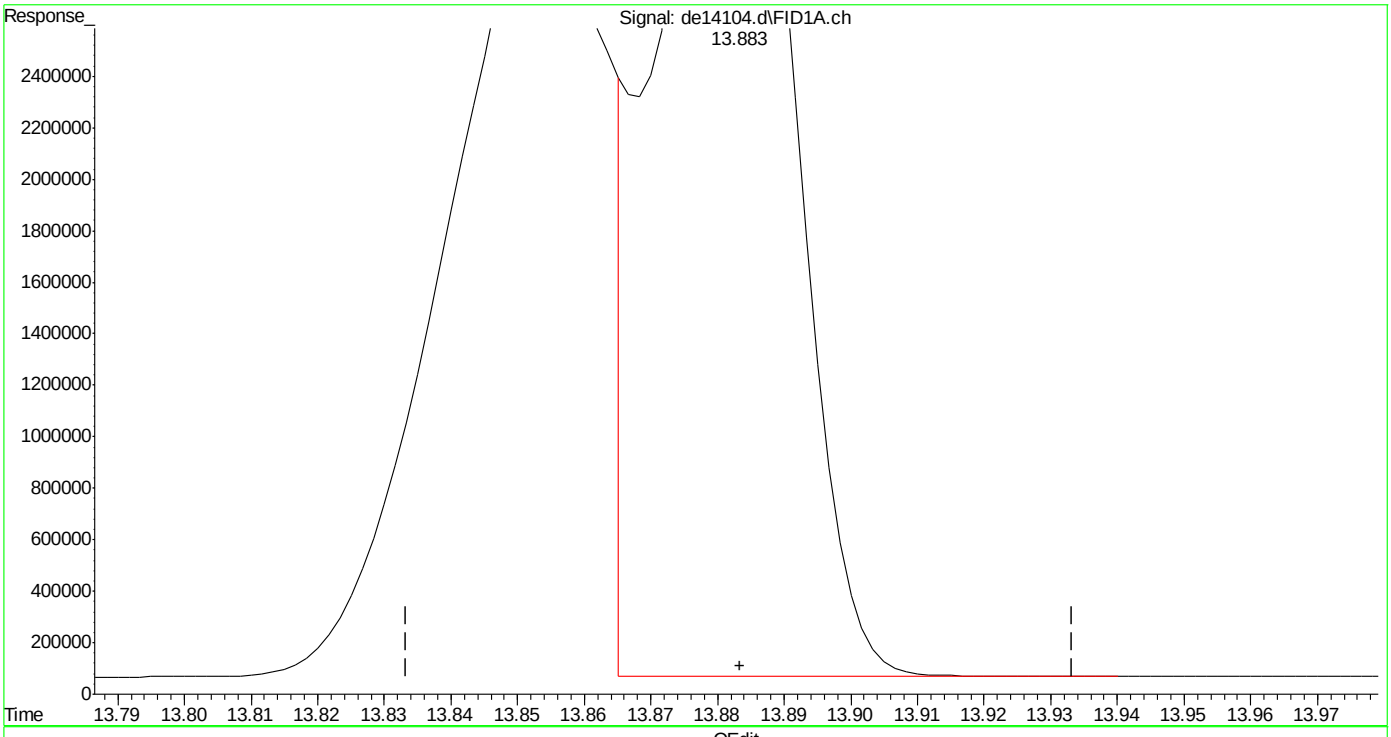
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.883min 56.886 µg/ml
response 5375872

(+) = Expected Retention Time

EPH160518W.M Wed May 18 10:23:48 2016

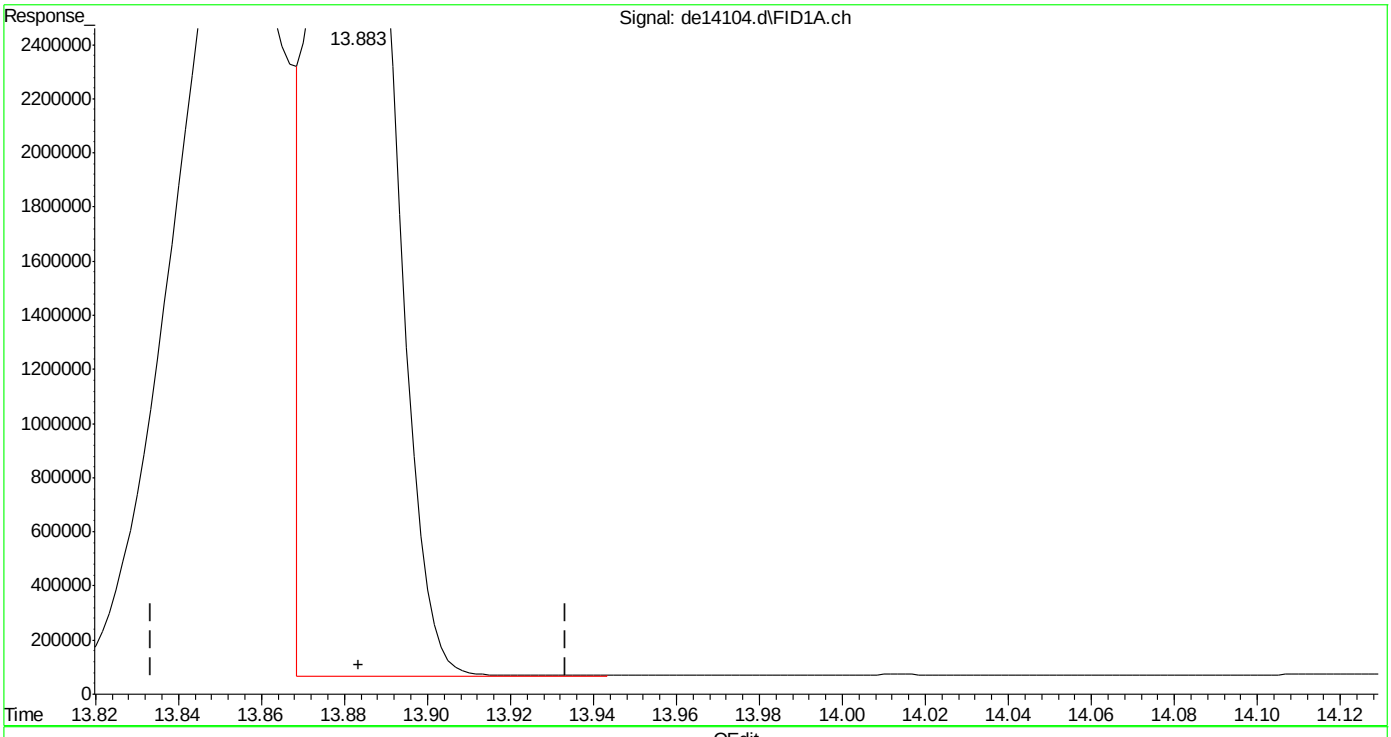
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14104.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 9:05 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 09:30:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.883min 52.179 µg/ml m
response 4931033

(+) = Expected Retention Time

EPH160518W.M Wed May 18 10:24:07 2016

SGS ACCUTEST MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14115.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 2:22 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 14:50:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.605	5194652	56.323 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 281.62%#
6) s	2-bromonaphthalene	7.333	3491653	55.640 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 278.20%#
11) s	o-terphenyl	9.873	5688366	55.536 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 277.68%#
35) s	1-chlorooctadecane	11.227	3060163	54.091 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 270.46%#
	Target Compounds			
2)	naphthalene	5.152	5842404	56.645 µg/ml
3)	2-methylnaphthalene	6.053	5712560	55.742 µg/ml
5)	acenaphthylene	7.167	5710366	56.762 µg/ml
7)	acenaphthene	7.408	5922904	57.295 µg/ml
8)	fluorene	8.052	5732272	56.438 µg/ml
9)	phenanthrene	9.232	5684030	55.856 µg/ml
10)	anthracene	9.290	5438127	56.059 µg/ml
12)	fluoranthene	10.737	5535115	55.384 µg/ml
13)	pyrene	10.993	5669280	55.876 µg/ml
14)	benzo(a)anthracene	12.555	5268850	54.501 µg/ml
15)	chrysene	12.605	5338404	54.842 µg/ml
16)	benzo(B)fluoranthene	13.853	5299227	53.526 µg/ml
17)	benzo(k)fluoranthene	13.883	5324953	56.347 µg/ml
18)	benzo(a)pyrene	14.188	5055035	54.687 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.330	5133385	54.231 µg/ml
20)	dibenzo(ah)anthracene	15.373	5033351	55.070 µg/ml
21)	benzo(ghi)perylene	15.555	5042459	54.736 µg/ml
25) h	c-9	2.648	4000760	54.158 µg/mlm
26) h	c-10	3.815	4038635	54.671 µg/ml
27)	naphthalene #2	5.488	4302131	53.863 µg/ml
28)	c-12	5.667	4001673	54.170 µg/ml
29)	2-methylnaphthalene #2	6.383	4289263	53.239 µg/ml
30)	c-14	7.183	3967509	53.708 µg/ml
31)	c-16	8.513	3922983	53.105 µg/ml
32)	c-18	9.707	3910636	52.938 µg/ml
33)	c-19	10.262	3872967	57.973 µg/ml
34)	c-20	10.793	3793134	56.778 µg/ml
36)	c-22	11.788	3749208	56.120 µg/ml
37)	c-24	12.705	3482985	52.135 µg/ml
38)	c-26	13.557	3680147	55.087 µg/ml

SGS ACCUTEST MC45678

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14115.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 2:22 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 14:50:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	3533056	52.885 µg/ml
40) h	c-30	15.098	3512451	52.577 µg/ml
41) h	c-36	17.008	3124612	46.771 µg/mlm

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

9.5.12

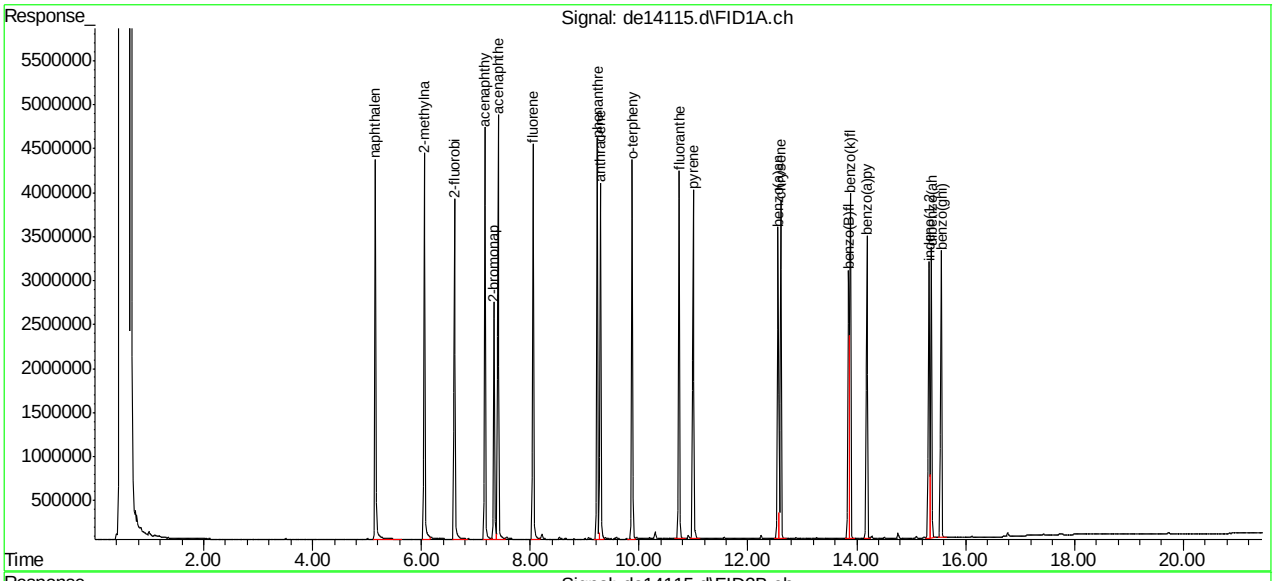
9

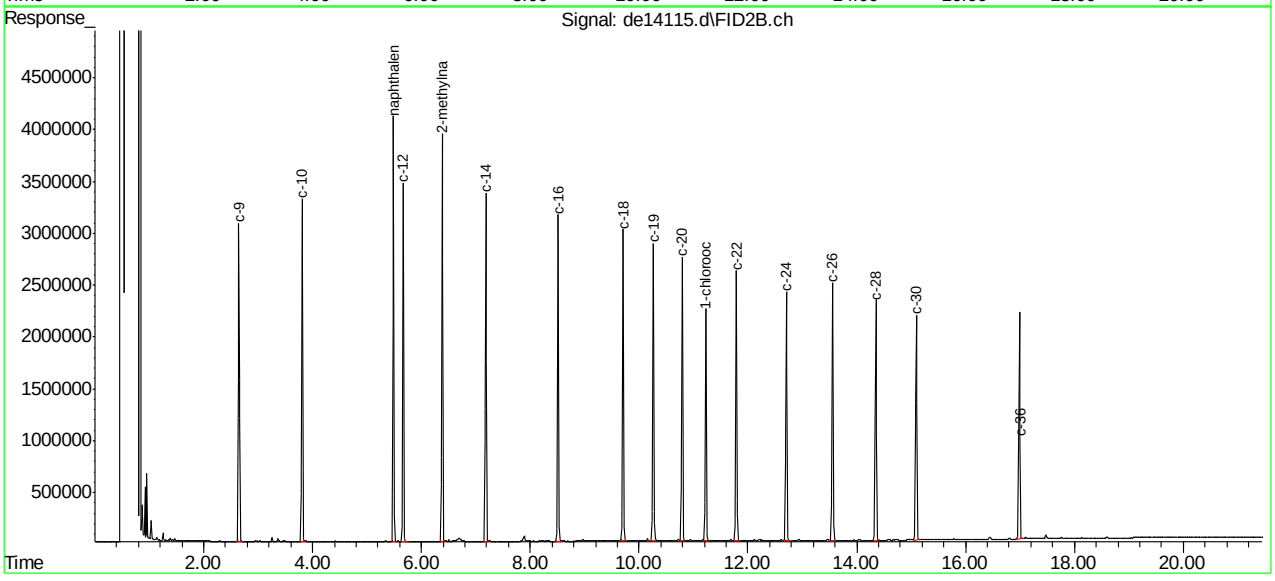
Quantitation Report (QT Reviewed)

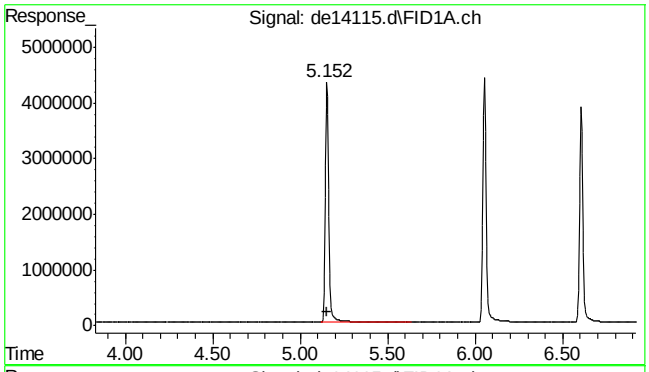
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14115.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 2:22 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 18 14:50:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

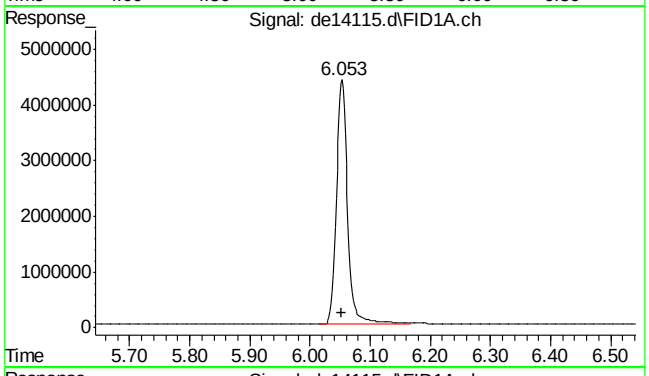






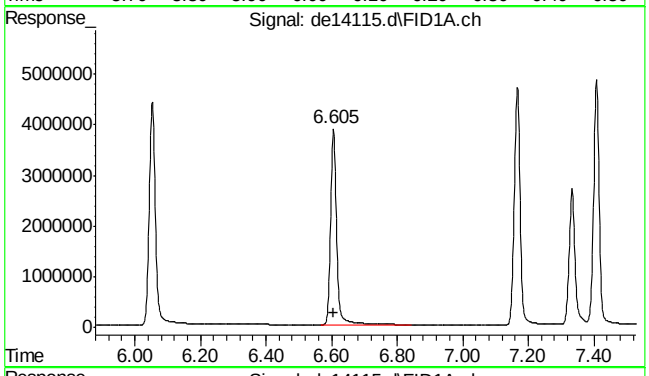
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.000 min
Response: 5842404
Conc: 56.65 µg/ml



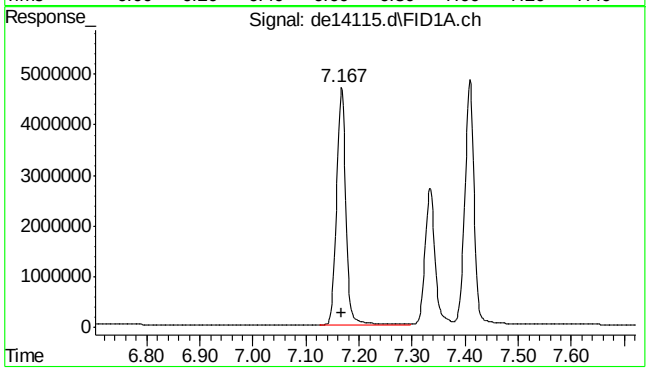
#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.002 min
Response: 5712560
Conc: 55.74 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 5194652
Conc: 56.32 µg/ml



#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 5710366
Conc: 56.76 µg/ml

9.5.12

9

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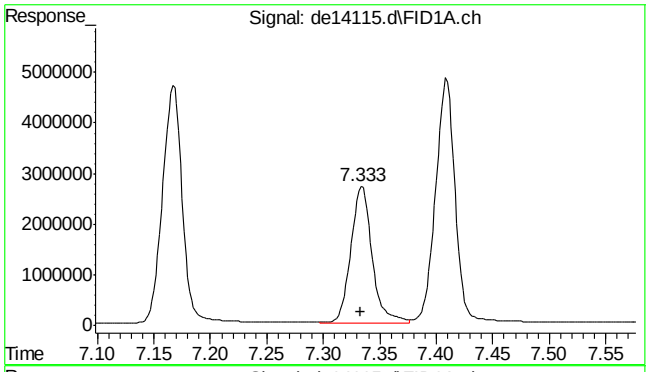
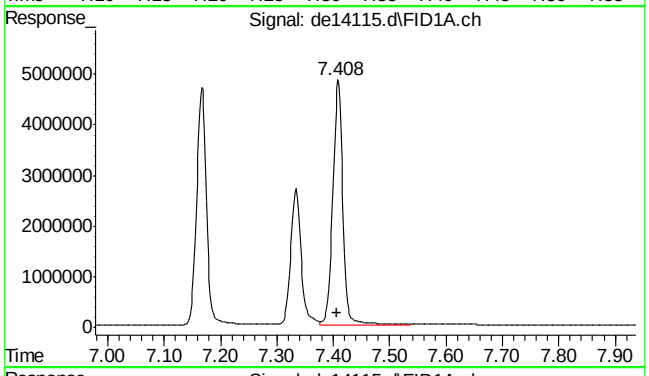


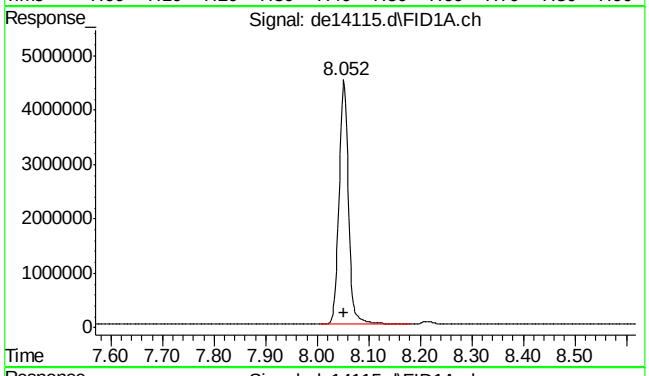
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 3491653
Conc: 55.64 µg/ml



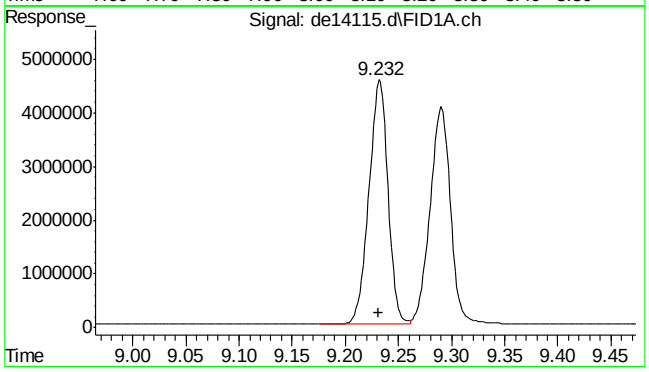
#7 acenaphthene

R.T.: 7.408 min
Delta R.T.: 0.002 min
Response: 5922904
Conc: 57.29 µg/ml



#8 fluorene

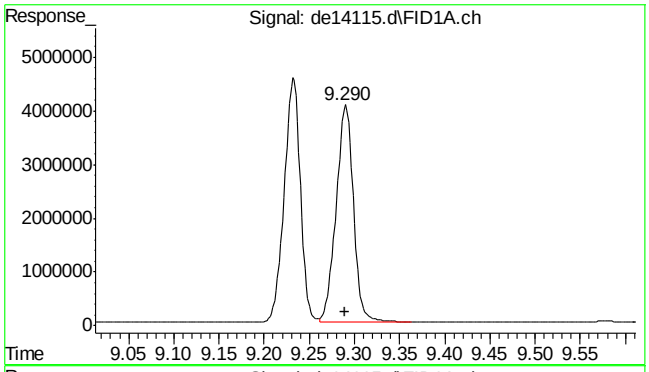
R.T.: 8.052 min
Delta R.T.: 0.000 min
Response: 5732272
Conc: 56.44 µg/ml



#9 phenanthrene

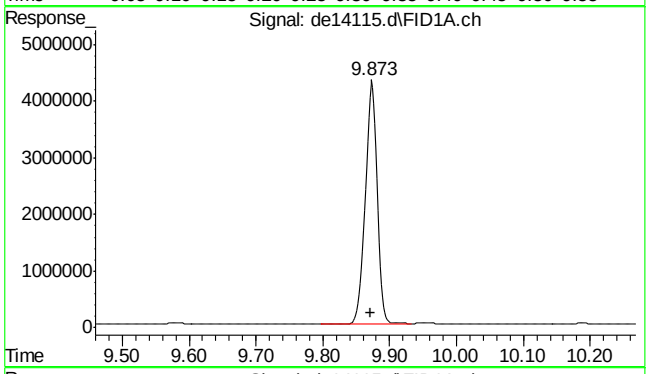
R.T.: 9.232 min
Delta R.T.: 0.000 min
Response: 5684030
Conc: 55.86 µg/ml

SGS ACCUTEST MC45678



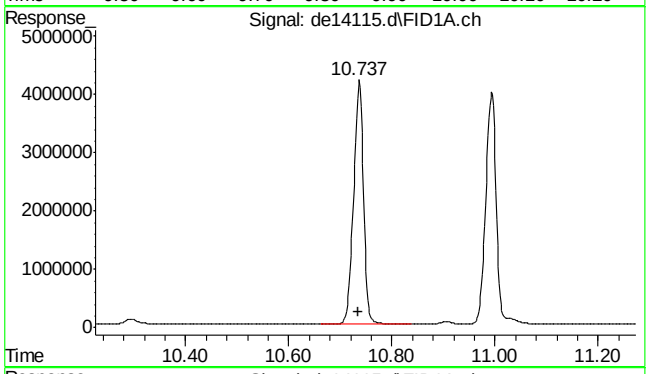
#10 anthracene

R.T.: 9.290 min
Delta R.T.: 0.000 min
Response: 5438127
Conc: 56.06 µg/ml



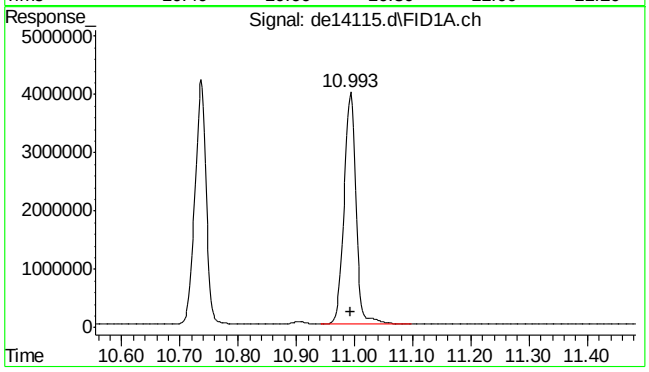
#11 o-terphenyl

R.T.: 9.873 min
Delta R.T.: 0.002 min
Response: 5688366
Conc: 55.54 µg/ml



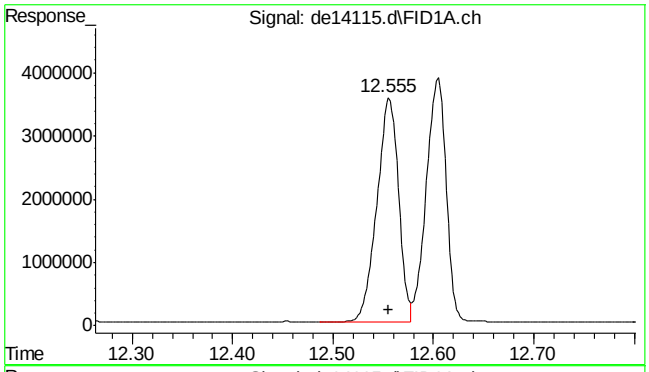
#12 fluoranthene

R.T.: 10.737 min
Delta R.T.: 0.002 min
Response: 5535115
Conc: 55.38 µg/ml



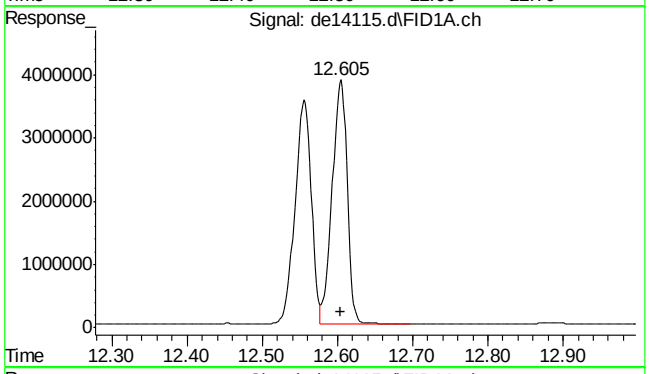
#13 pyrene

R.T.: 10.993 min
Delta R.T.: 0.000 min
Response: 5669280
Conc: 55.88 µg/ml



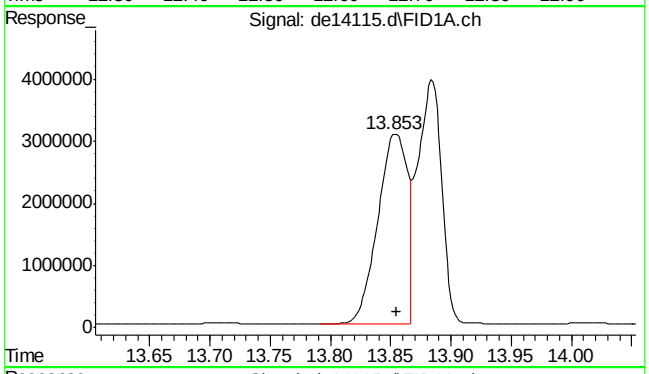
#14 benzo(a)anthracene

R.T.: 12.555 min
Delta R.T.: 0.000 min
Response: 5268850
Conc: 54.50 µg/ml



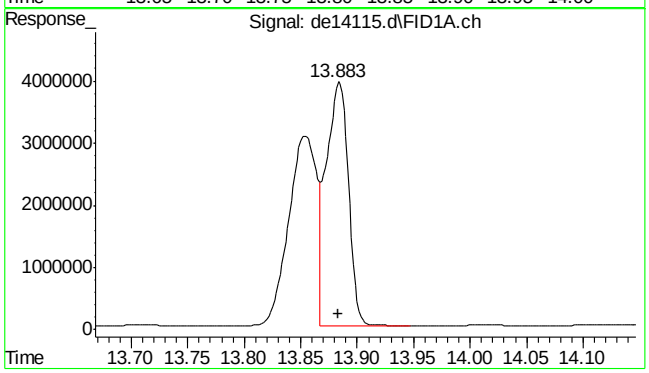
#15 chrysene

R.T.: 12.605 min
Delta R.T.: 0.002 min
Response: 5338404
Conc: 54.84 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.853 min
Delta R.T.: -0.002 min
Response: 5299227
Conc: 53.53 µg/ml



#17 benzo(k)fluoranthene

R.T.: 13.883 min
Delta R.T.: 0.000 min
Response: 5324953
Conc: 56.35 µg/ml

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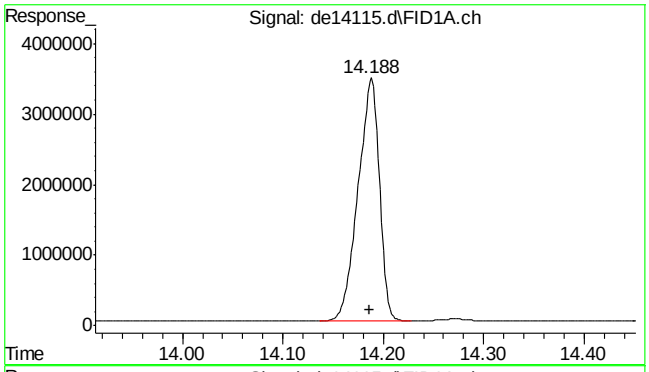
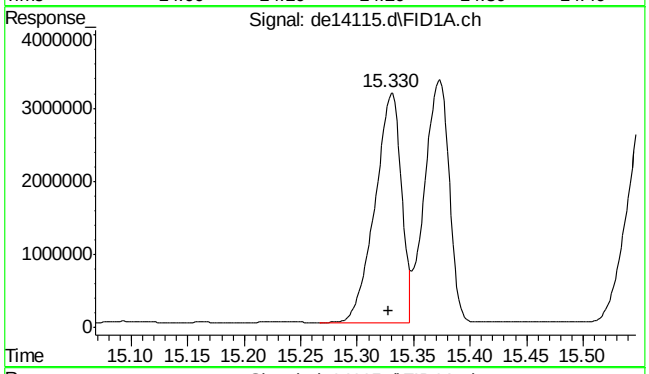


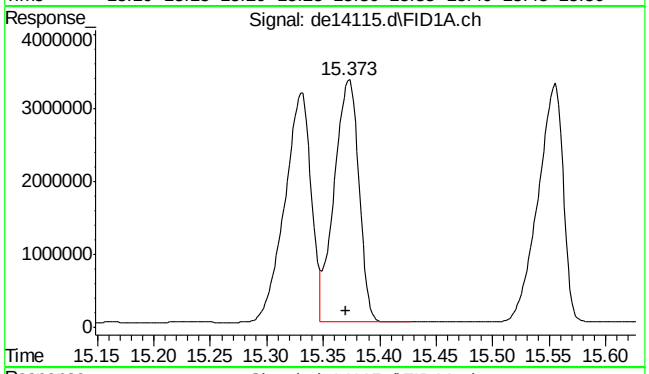
#18 benzo(a)pyrene

R.T.: 14.188 min
Delta R.T.: 0.002 min
Response: 5055035
Conc: 54.69 µg/ml



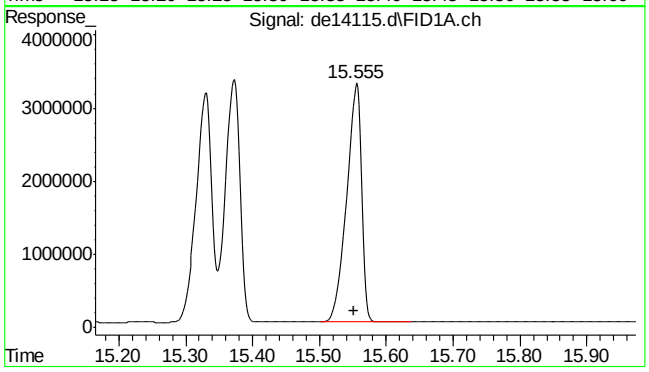
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.330 min
Delta R.T.: 0.002 min
Response: 5133385
Conc: 54.23 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.373 min
Delta R.T.: 0.003 min
Response: 5033351
Conc: 55.07 µg/ml



#21 benzo(ghi)perylene

R.T.: 15.555 min
Delta R.T.: 0.003 min
Response: 5042459
Conc: 54.74 µg/ml

9.5.12

9

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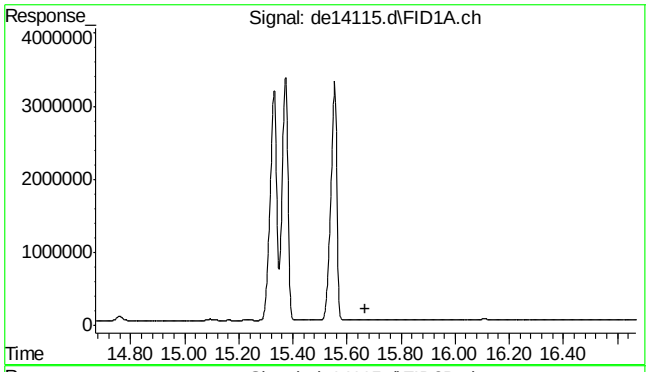
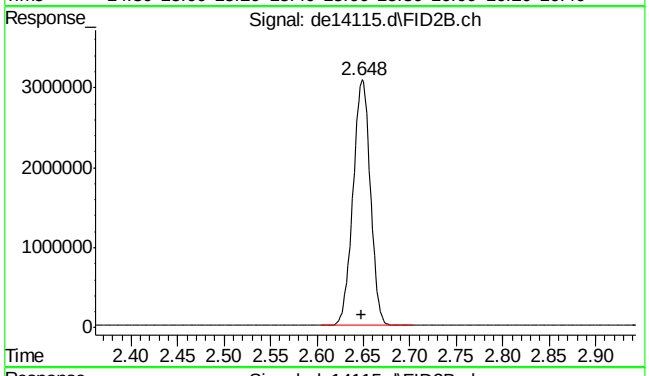


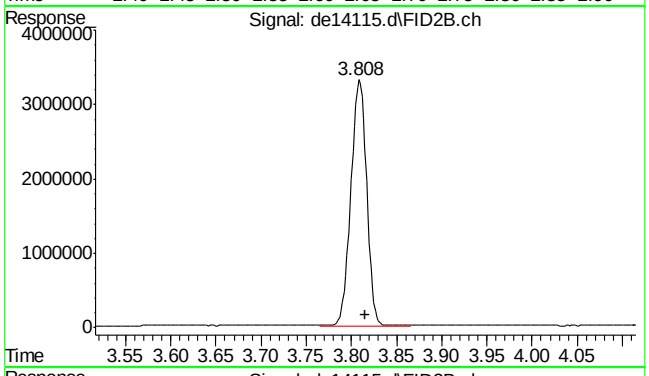
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



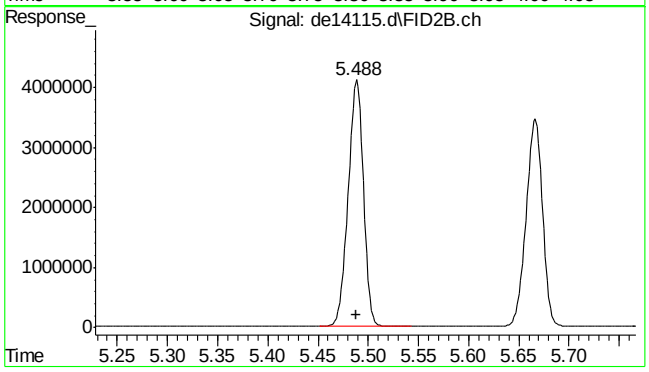
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4000760
Conc: 54.16 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4038635
Conc: 54.67 µg/ml



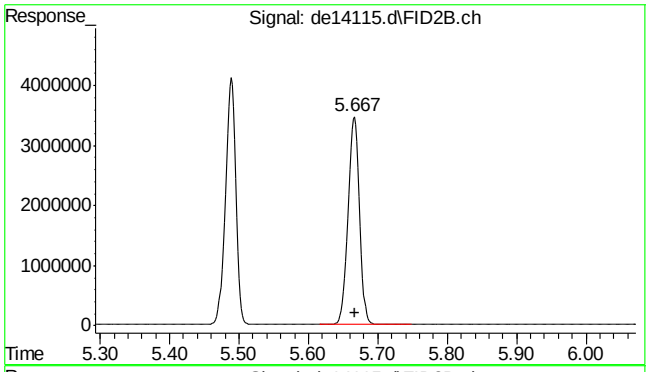
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4302131
Conc: 53.86 µg/ml

9.5.12

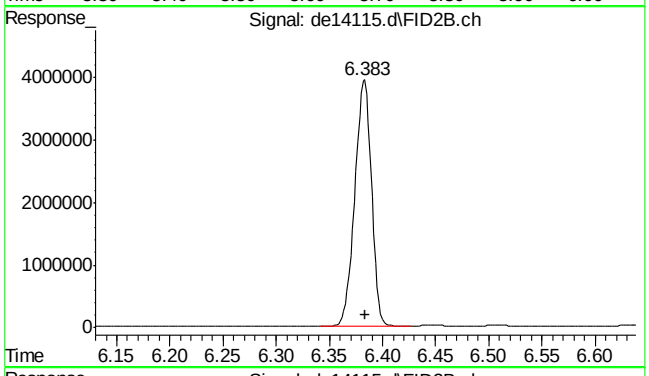
9

SGS ACCUTEST MC45678



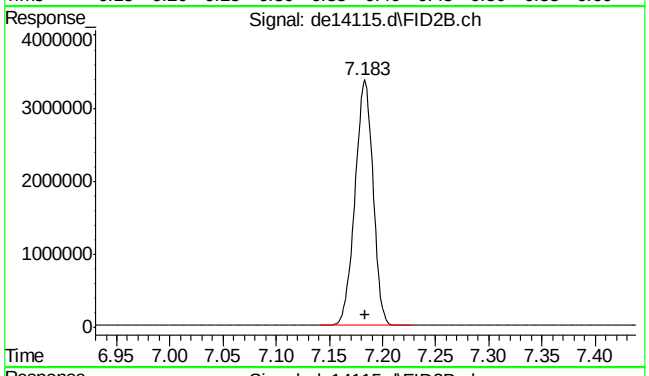
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 4001673
Conc: 54.17 µg/ml



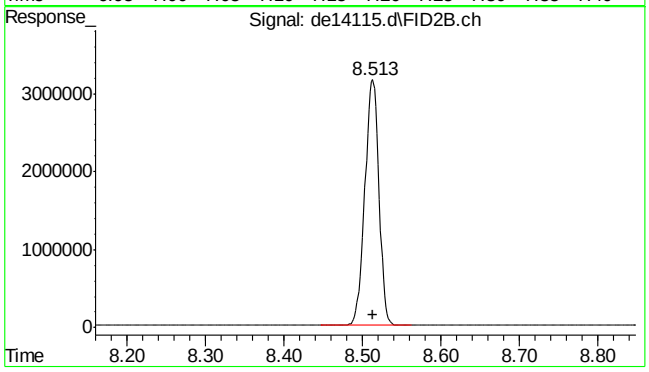
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4289263
Conc: 53.24 µg/ml



#30 c-14

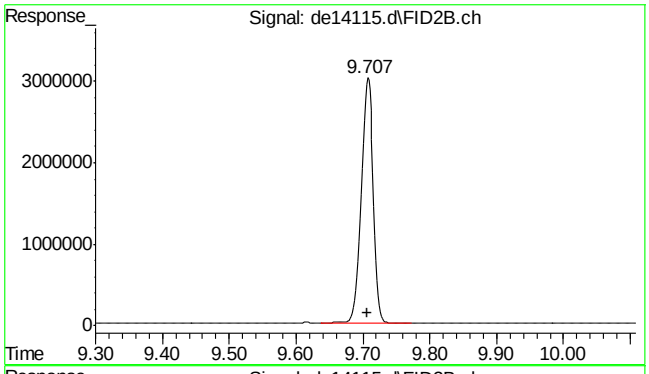
R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3967509
Conc: 53.71 µg/ml



#31 c-16

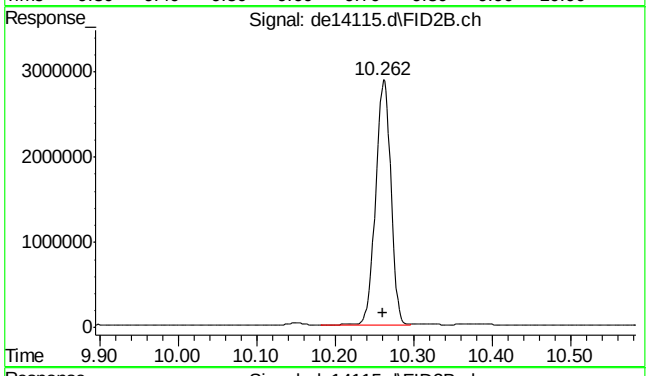
R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3922983
Conc: 53.11 µg/ml

SGS ACCUTEST MC45678



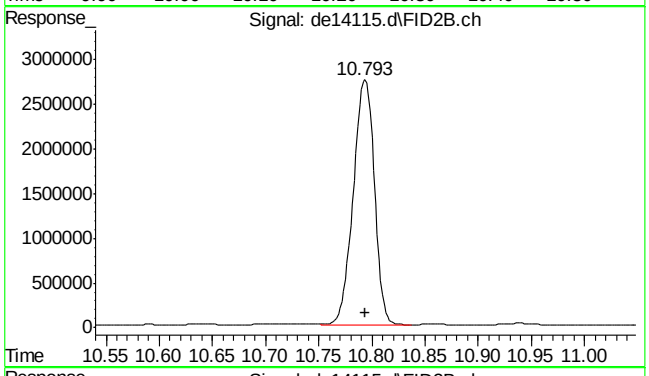
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3910636
Conc: 52.94 µg/ml



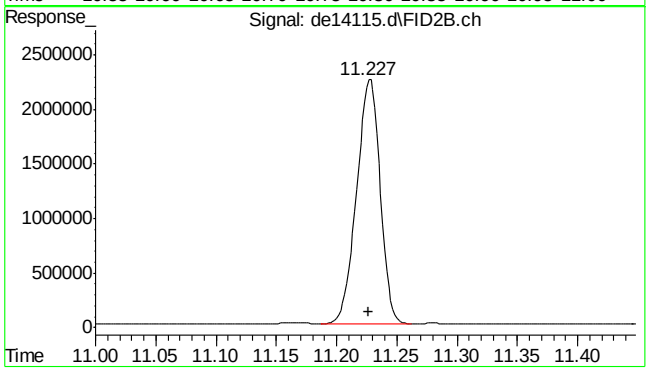
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3872967
Conc: 57.97 µg/ml



#34 c-20

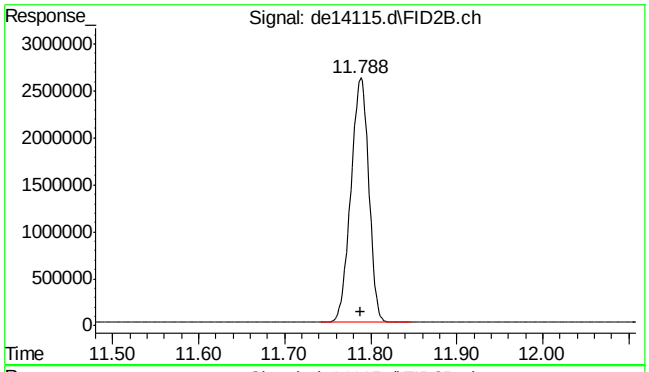
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3793134
Conc: 56.78 µg/ml



#35 1-chlorooctadecane

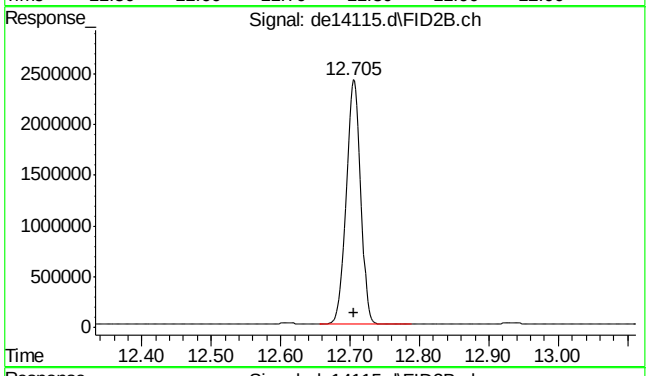
R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 3060163
Conc: 54.09 µg/ml

SGS ACCUTEST MC45678



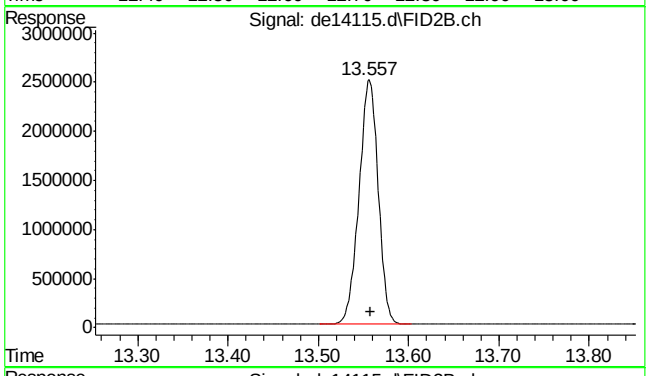
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3749208
Conc: 56.12 µg/ml



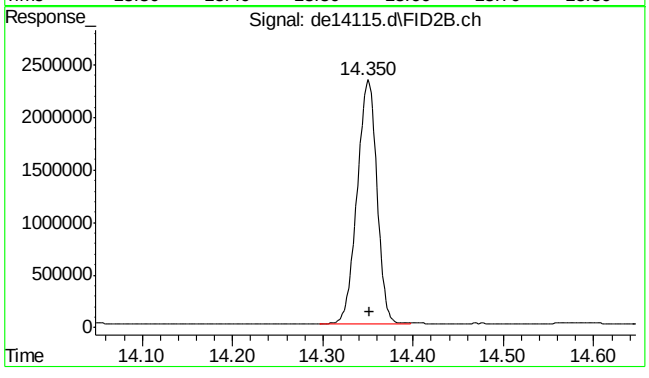
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3482985
Conc: 52.14 µg/ml



#38 c-26

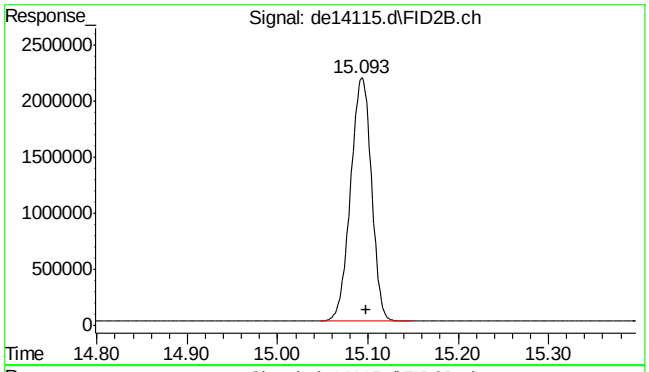
R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 3680147
Conc: 55.09 µg/ml



#39 c-28

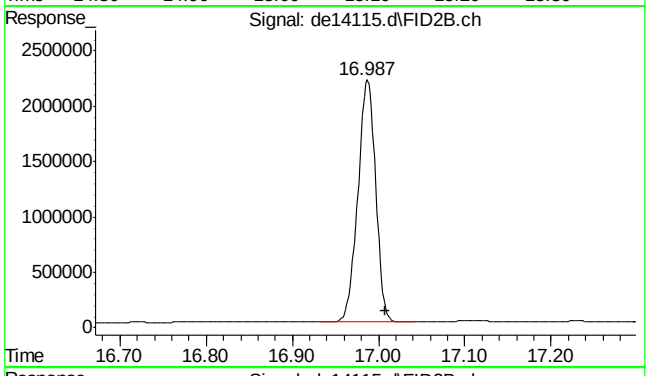
R.T.: 14.350 min
Delta R.T.: -0.002 min
Response: 3533056
Conc: 52.88 µg/ml

SGS ACCUTEST MC45678



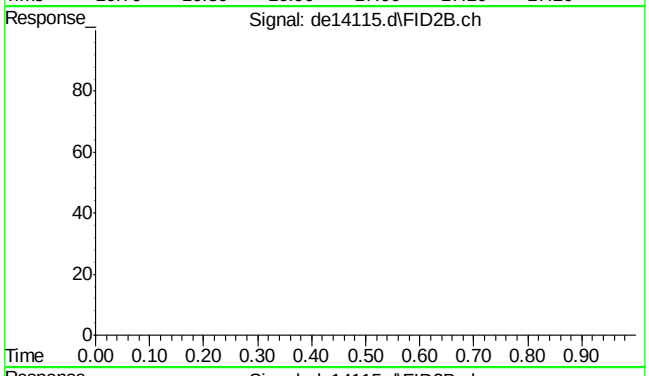
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3512451
Conc: 52.58 µg/ml



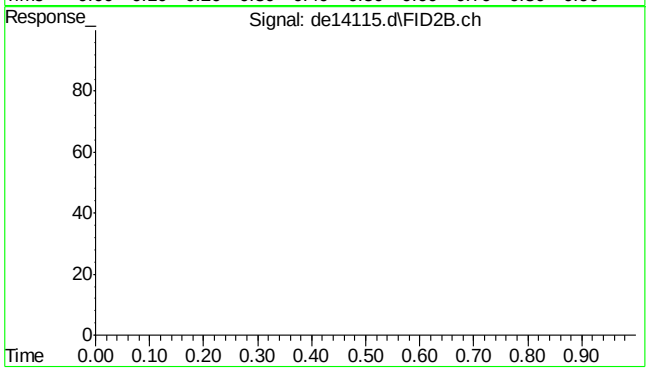
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3124612
Conc: 46.77 µg/ml m



#42 bht

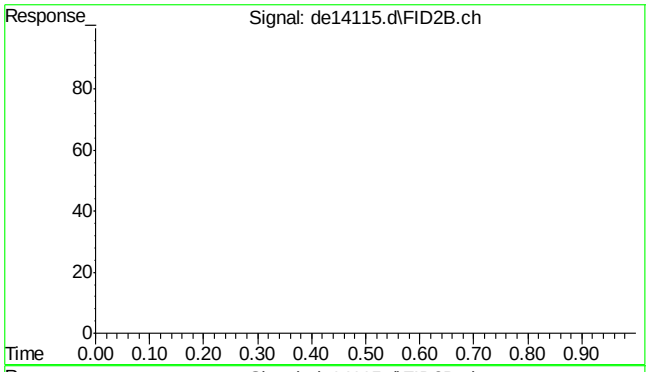
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

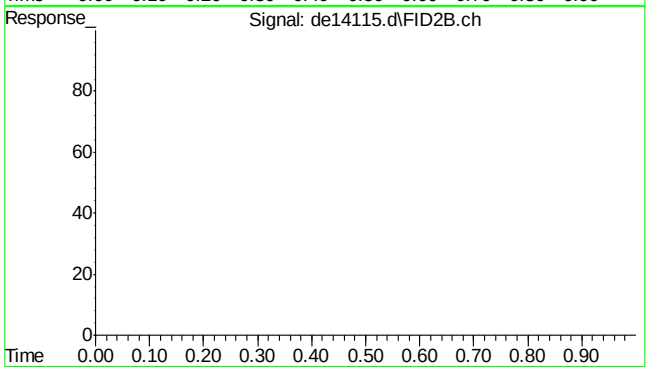
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45678



#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 MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/19/16 09:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 7:30 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:08:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.605	3992538	43.289 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 216.44%#
6) s	2-bromonaphthalene	7.333	2768097	44.110 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 220.55%#
11) s	o-terphenyl	9.873	4932946	48.161 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 240.81%#
35) s	1-chlorooctadecane	11.227	3073019	54.318 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 271.59%#
	Target Compounds			
2)	naphthalene	5.152	4301087	41.701 µg/ml
3)	2-methylnaphthalene	6.052	4320094	42.155 µg/ml
5)	acenaphthylene	7.165	4465902	44.392 µg/ml
7)	acenaphthene	7.408	4712853	45.589 µg/ml
8)	fluorene	8.052	4688850	46.165 µg/ml
9)	phenanthrene	9.232	4845211	47.613 µg/ml
10)	anthracene	9.288	4703571	48.486 µg/ml
12)	fluoranthene	10.735	5039602	50.426 µg/ml
13)	pyrene	10.993	5199134	51.242 µg/ml
14)	benzo(a)anthracene	12.557	5103244	52.788 µg/ml
15)	chrysene	12.605	5180496	53.220 µg/ml
16)	benzo(B)fluoranthene	13.855	5419625	54.742 µg/mlm
17)	benzo(k)fluoranthene	13.887	5257880	55.637 µg/mlm
18)	benzo(a)pyrene	14.188	5110798	55.290 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.330	5325473	56.260 µg/ml
20)	dibenzo(ah)anthracene	15.373	5161711	56.475 µg/ml
21)	benzo(ghi)perylene	15.555	5206669	56.519 µg/ml
25) h	c-9	2.648	3899563	52.788 µg/mlm
26) h	c-10	3.815	3933196	53.243 µg/ml
27)	naphthalene #2	5.488	4198388	52.564 µg/ml
28)	c-12	5.667	3906710	52.885 µg/ml
29)	2-methylnaphthalene #2	6.383	4196363	52.086 µg/ml
30)	c-14	7.183	3891746	52.682 µg/ml
31)	c-16	8.512	3870122	52.389 µg/ml
32)	c-18	9.708	3887502	52.625 µg/ml
33)	c-19	10.262	3863603	57.833 µg/ml
34)	c-20	10.793	3797064	56.837 µg/ml
36)	c-22	11.788	3781508	56.604 µg/ml
37)	c-24	12.707	3543148	53.036 µg/ml
38)	c-26	13.558	3774040	56.492 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 7:30 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:08:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	3646575	54.584 µg/ml
40) h	c-30	15.098	3641643	54.510 µg/ml
41) h	c-36	17.008	3302036	49.427 µg/mlm

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

9.5.13

9

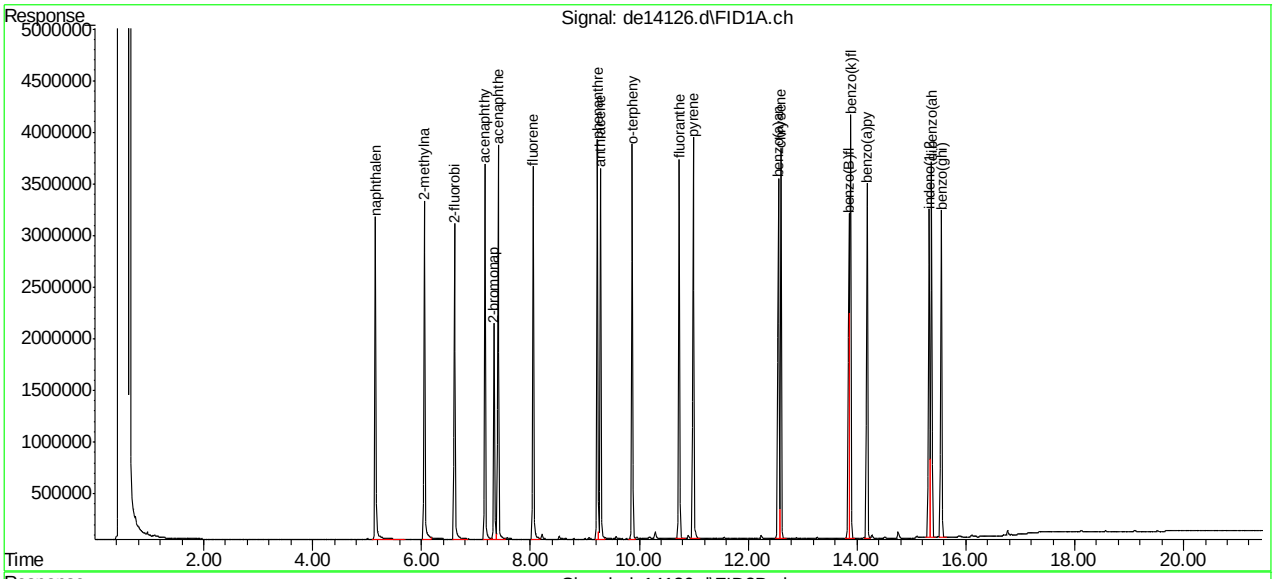
SGS ACCUTEST MC45678

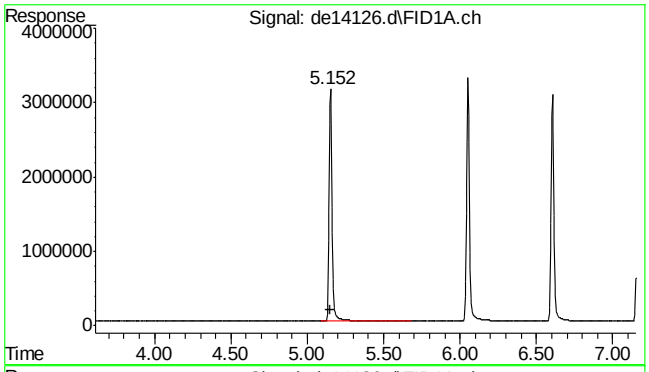
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 7:30 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:08:04 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

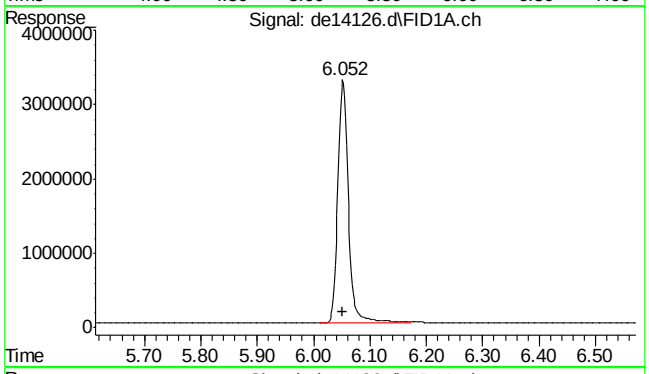
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





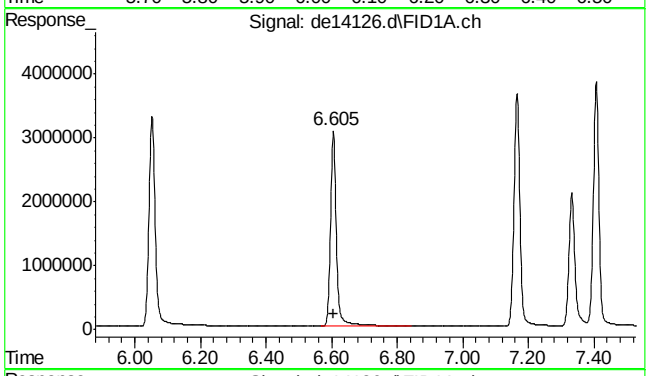
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.000 min
Response: 4301087
Conc: 41.70 µg/ml



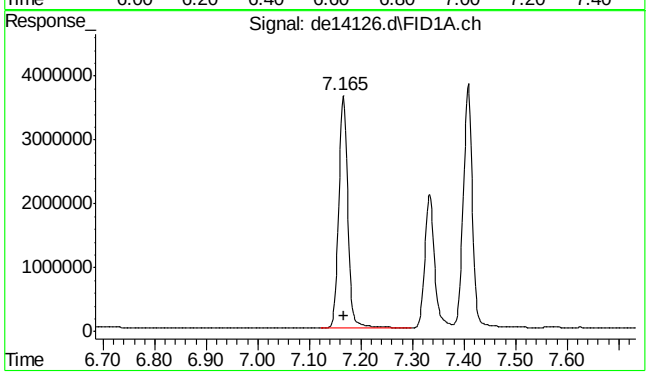
#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.000 min
Response: 4320094
Conc: 42.15 µg/ml



#4 2-fluorobiphenyl

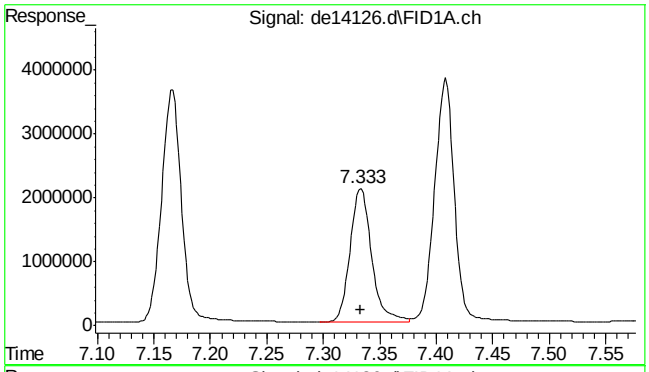
R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 3992538
Conc: 43.29 µg/ml



#5 acenaphthylene

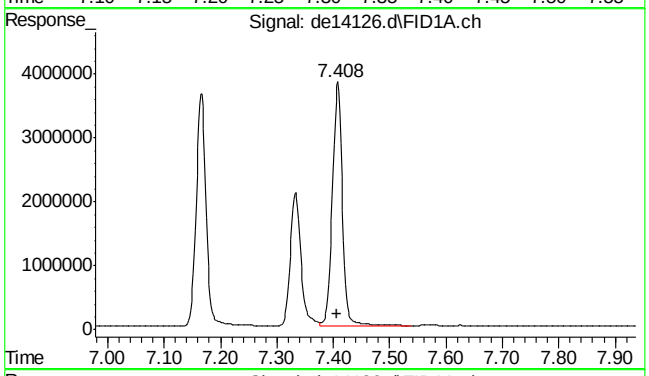
R.T.: 7.165 min
Delta R.T.: -0.002 min
Response: 4465902
Conc: 44.39 µg/ml

SGS ACCUTEST MC45678



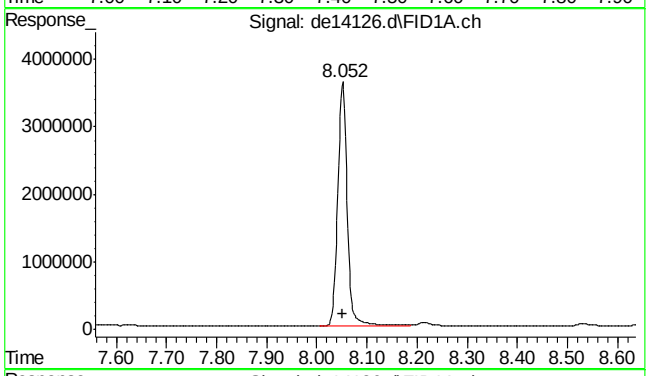
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 2768097
Conc: 44.11 µg/ml



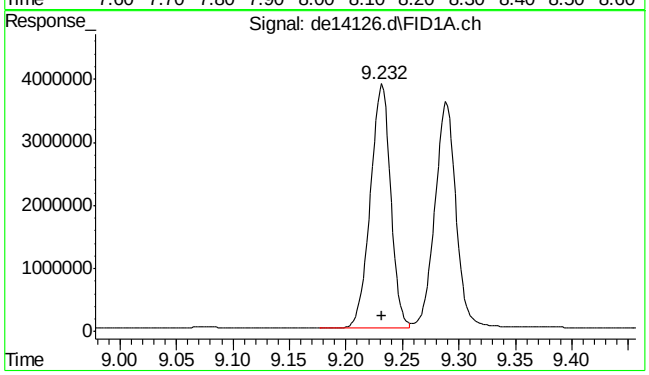
#7 acenaphthene

R.T.: 7.408 min
Delta R.T.: 0.002 min
Response: 4712853
Conc: 45.59 µg/ml



#8 fluorene

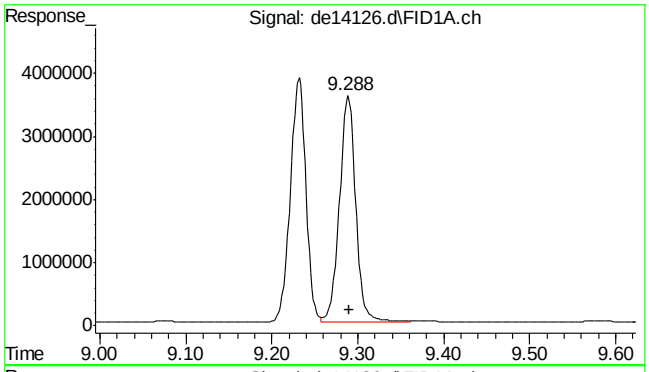
R.T.: 8.052 min
Delta R.T.: 0.000 min
Response: 4688850
Conc: 46.16 µg/ml



#9 phenanthrene

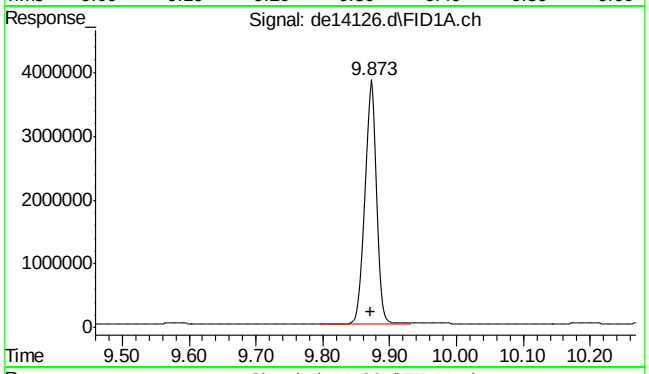
R.T.: 9.232 min
Delta R.T.: 0.000 min
Response: 4845211
Conc: 47.61 µg/ml

SGS ACCUTEST MC45678



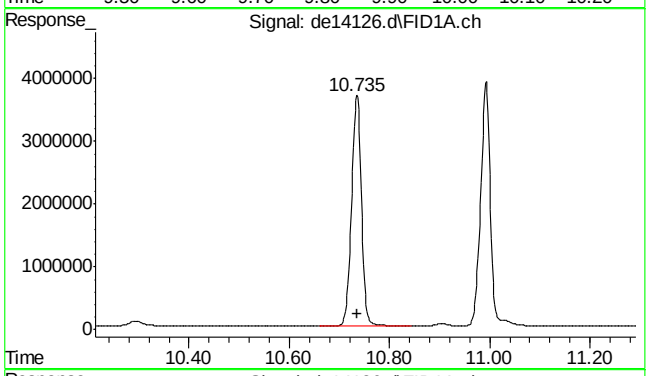
#10 anthracene

R.T.: 9.288 min
Delta R.T.: -0.002 min
Response: 4703571
Conc: 48.49 µg/ml



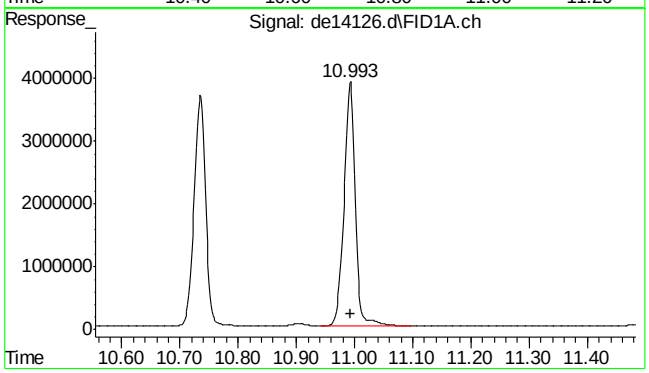
#11 o-terphenyl

R.T.: 9.873 min
Delta R.T.: 0.002 min
Response: 4932946
Conc: 48.16 µg/ml



#12 fluoranthene

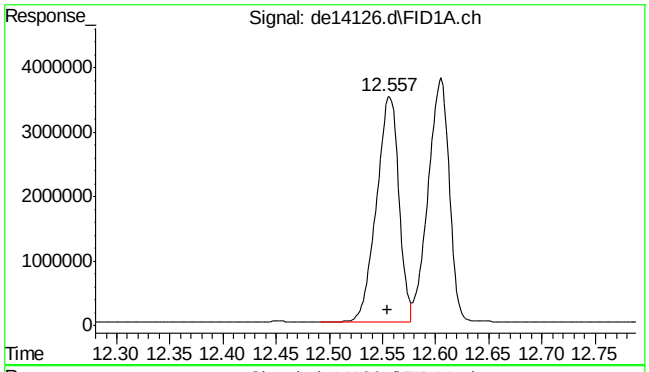
R.T.: 10.735 min
Delta R.T.: 0.000 min
Response: 5039602
Conc: 50.43 µg/ml



#13 pyrene

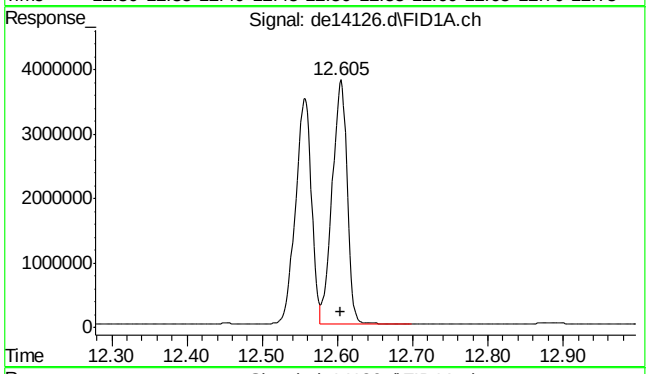
R.T.: 10.993 min
Delta R.T.: 0.000 min
Response: 5199134
Conc: 51.24 µg/ml

SGS ACCUTEST MC45678



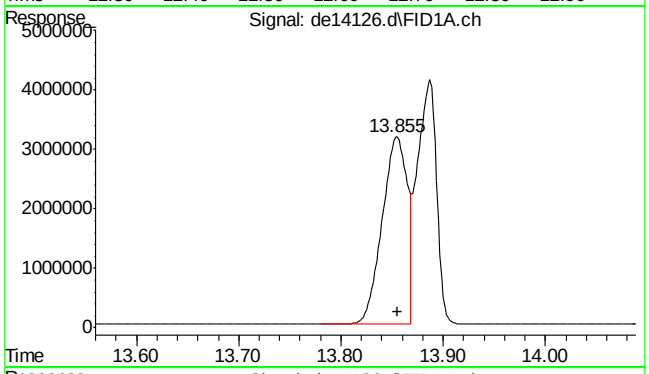
#14 benzo(a)anthracene

R.T.: 12.557 min
Delta R.T.: 0.002 min
Response: 5103244
Conc: 52.79 µg/ml



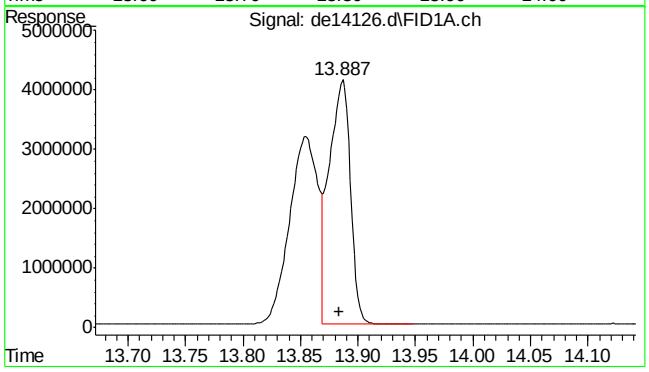
#15 chrysene

R.T.: 12.605 min
Delta R.T.: 0.002 min
Response: 5180496
Conc: 53.22 µg/ml



#16 benzo(B)fluoranthene

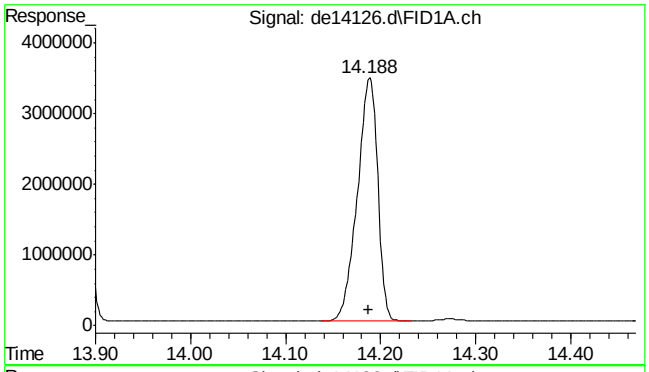
R.T.: 13.855 min
Delta R.T.: 0.000 min
Response: 5419625
Conc: 54.74 µg/ml m



#17 benzo(k)fluoranthene

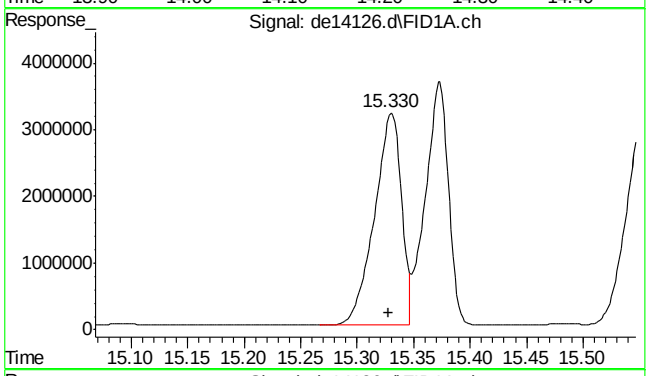
R.T.: 13.887 min
Delta R.T.: 0.003 min
Response: 5257880
Conc: 55.64 µg/ml m

SGS ACCUTEST MC45678



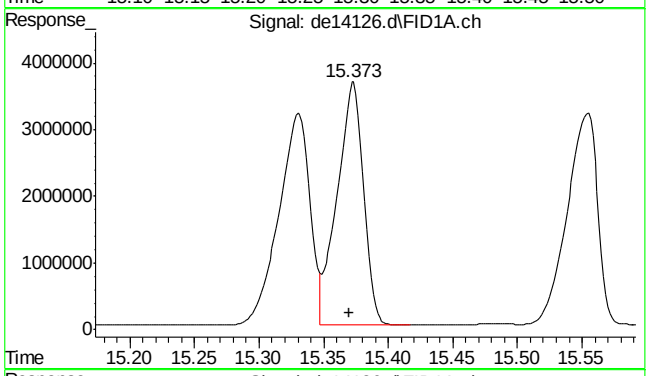
#18 benzo(a)pyrene

R.T.: 14.188 min
Delta R.T.: 0.002 min
Response: 5110798
Conc: 55.29 µg/ml



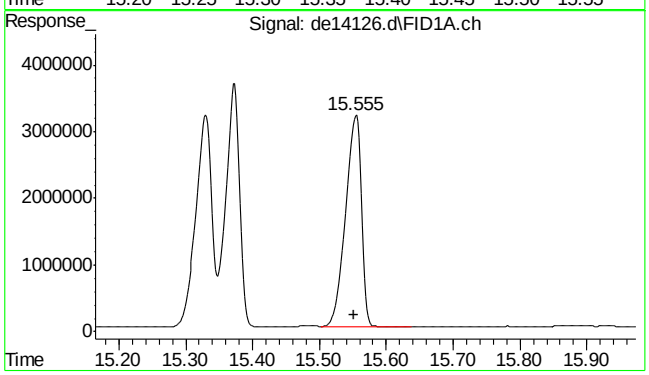
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.330 min
Delta R.T.: 0.002 min
Response: 5325473
Conc: 56.26 µg/ml



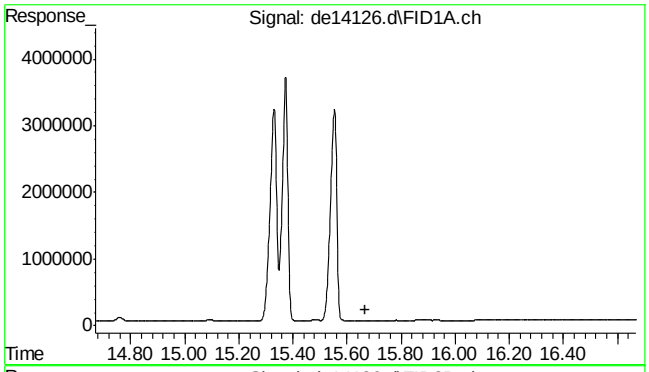
#20 dibenzo(ah)anthracene

R.T.: 15.373 min
Delta R.T.: 0.003 min
Response: 5161711
Conc: 56.47 µg/ml



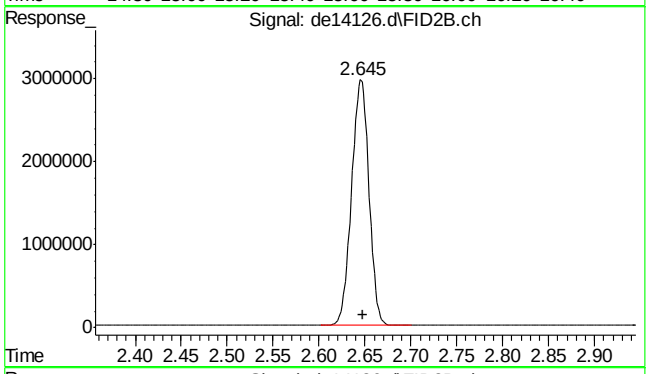
#21 benzo(ghi)perylene

R.T.: 15.555 min
Delta R.T.: 0.003 min
Response: 5206669
Conc: 56.52 µg/ml



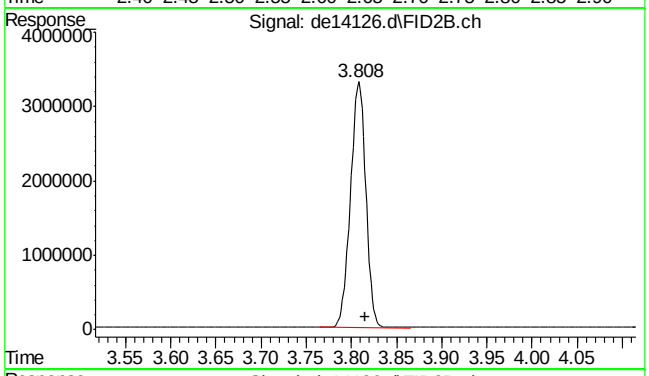
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



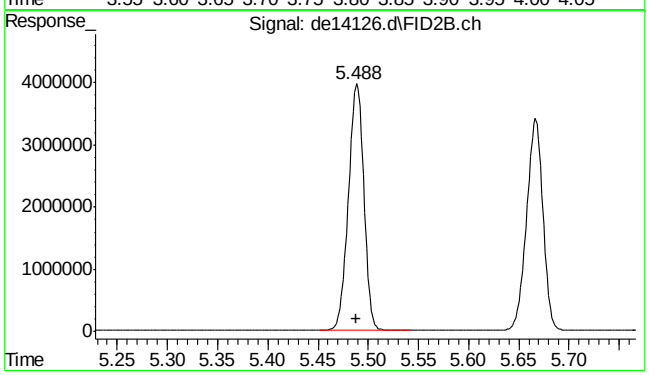
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3899563
Conc: 52.79 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3933196
Conc: 53.24 µg/ml



#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4198388
Conc: 52.56 µg/ml

9.5.13

9

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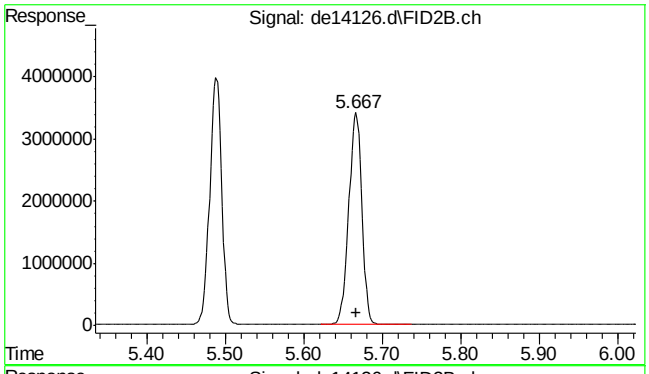
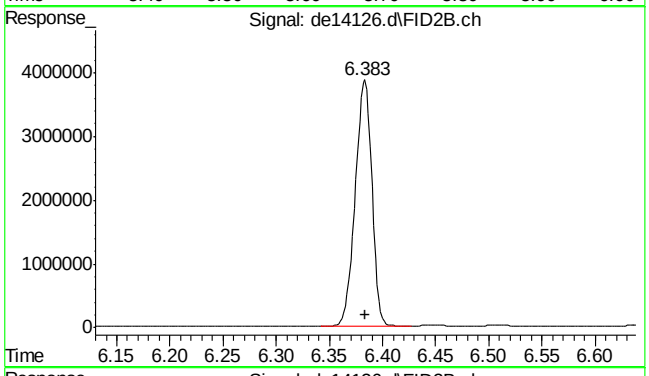


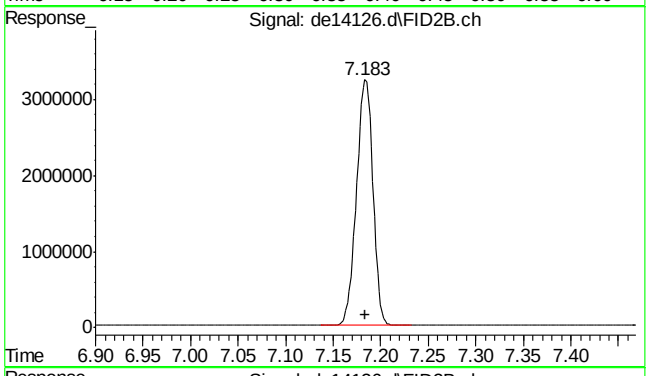
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3906710
Conc: 52.88 µg/ml



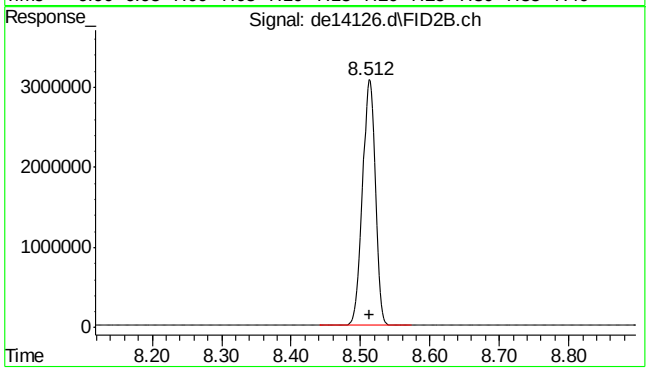
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4196363
Conc: 52.09 µg/ml



#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3891746
Conc: 52.68 µg/ml



#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 3870122
Conc: 52.39 µg/ml

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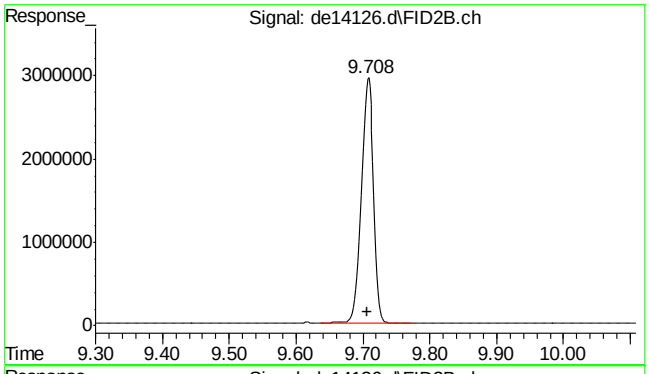
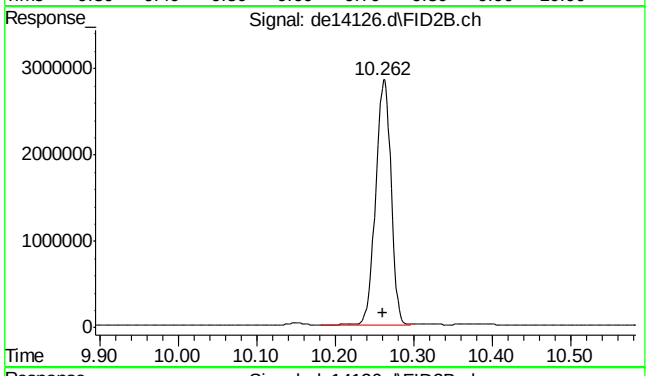


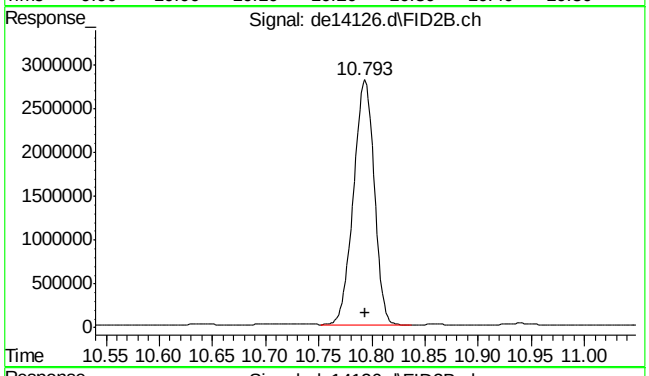
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.002 min
Response: 3887502
Conc: 52.62 µg/ml



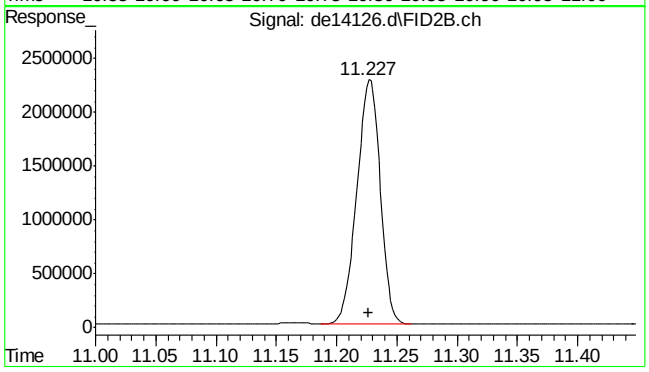
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3863603
Conc: 57.83 µg/ml



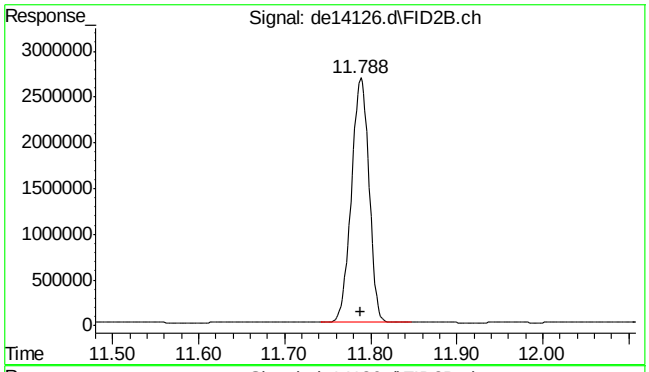
#34 c-20

R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3797064
Conc: 56.84 µg/ml



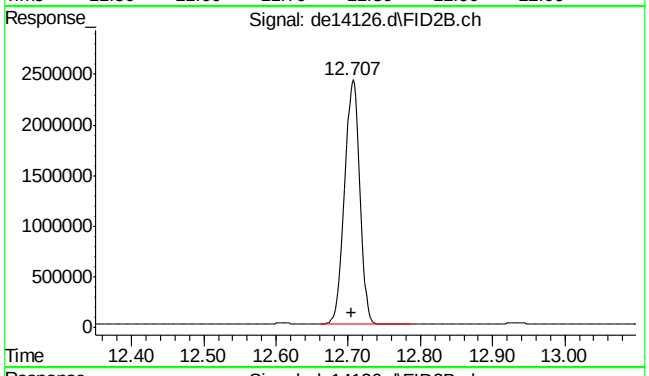
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 3073019
Conc: 54.32 µg/ml



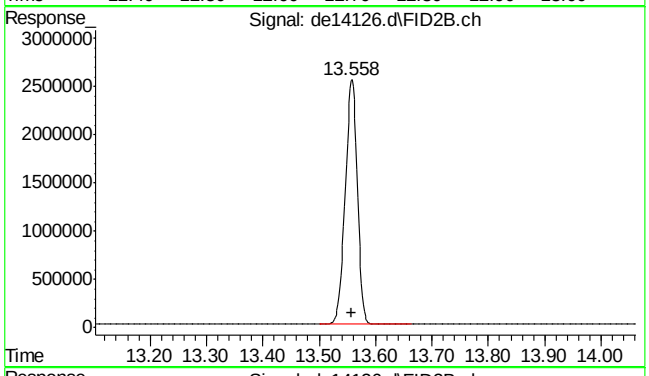
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3781508
Conc: 56.60 µg/ml



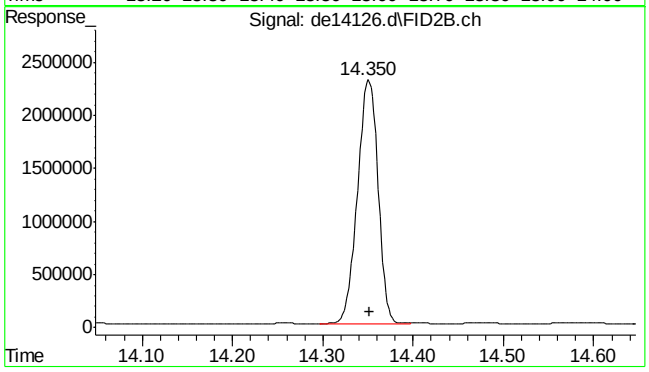
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.002 min
Response: 3543148
Conc: 53.04 µg/ml



#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3774040
Conc: 56.49 µg/ml



#39 c-28

R.T.: 14.350 min
Delta R.T.: -0.002 min
Response: 3646575
Conc: 54.58 µg/ml

9.5.13

9

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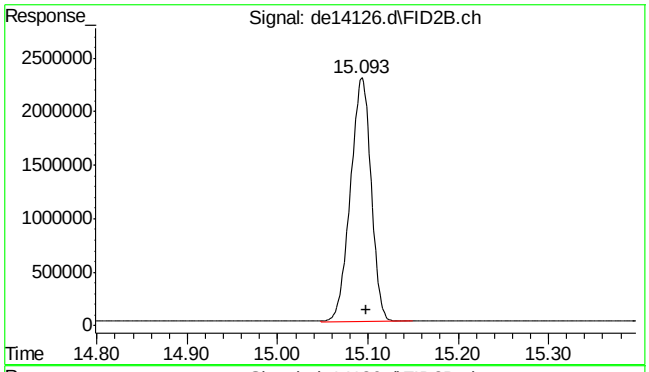
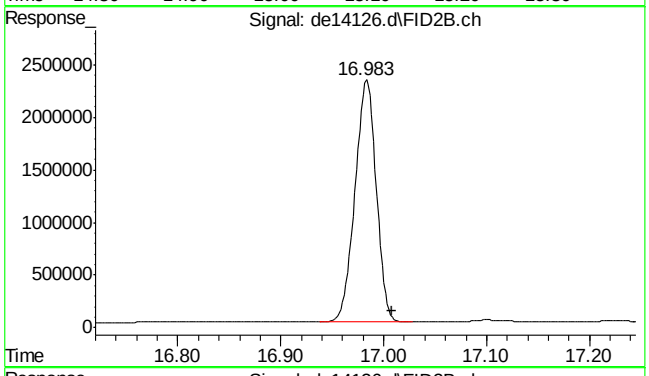


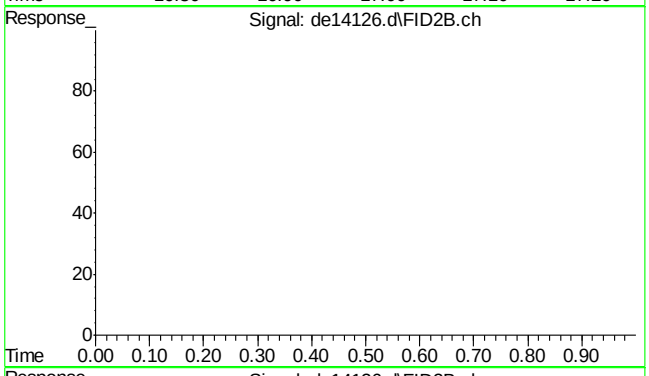
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3641643
Conc: 54.51 µg/ml



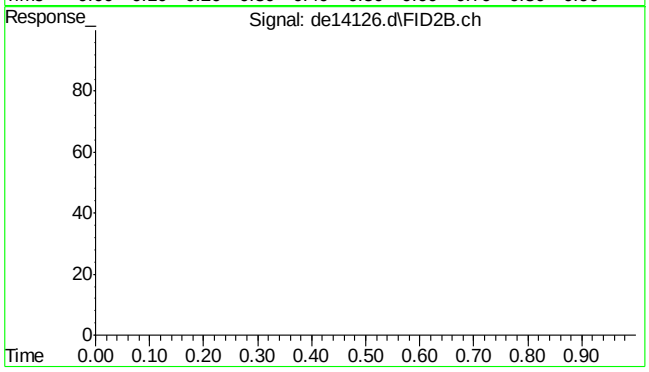
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3302036
Conc: 49.43 µg/ml m



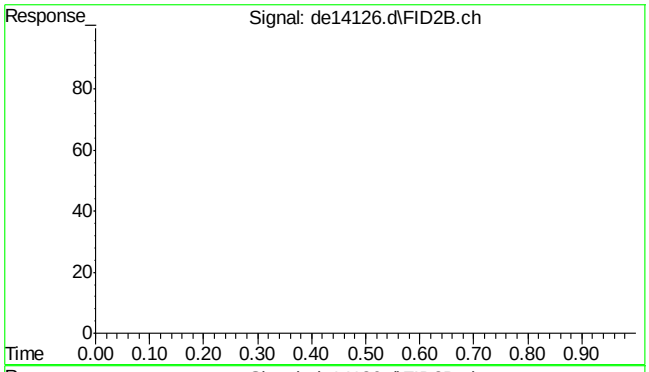
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



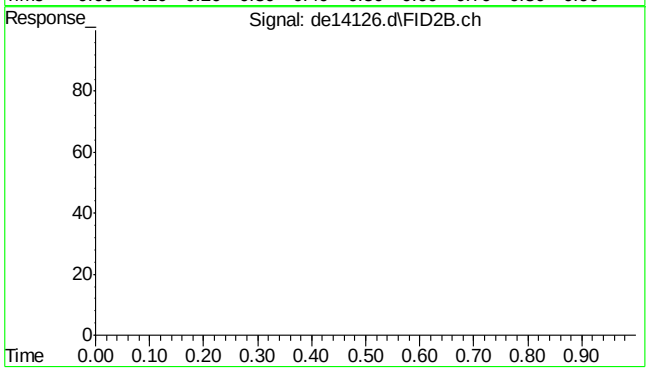
#43 bht

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.
```

9.5.13

9

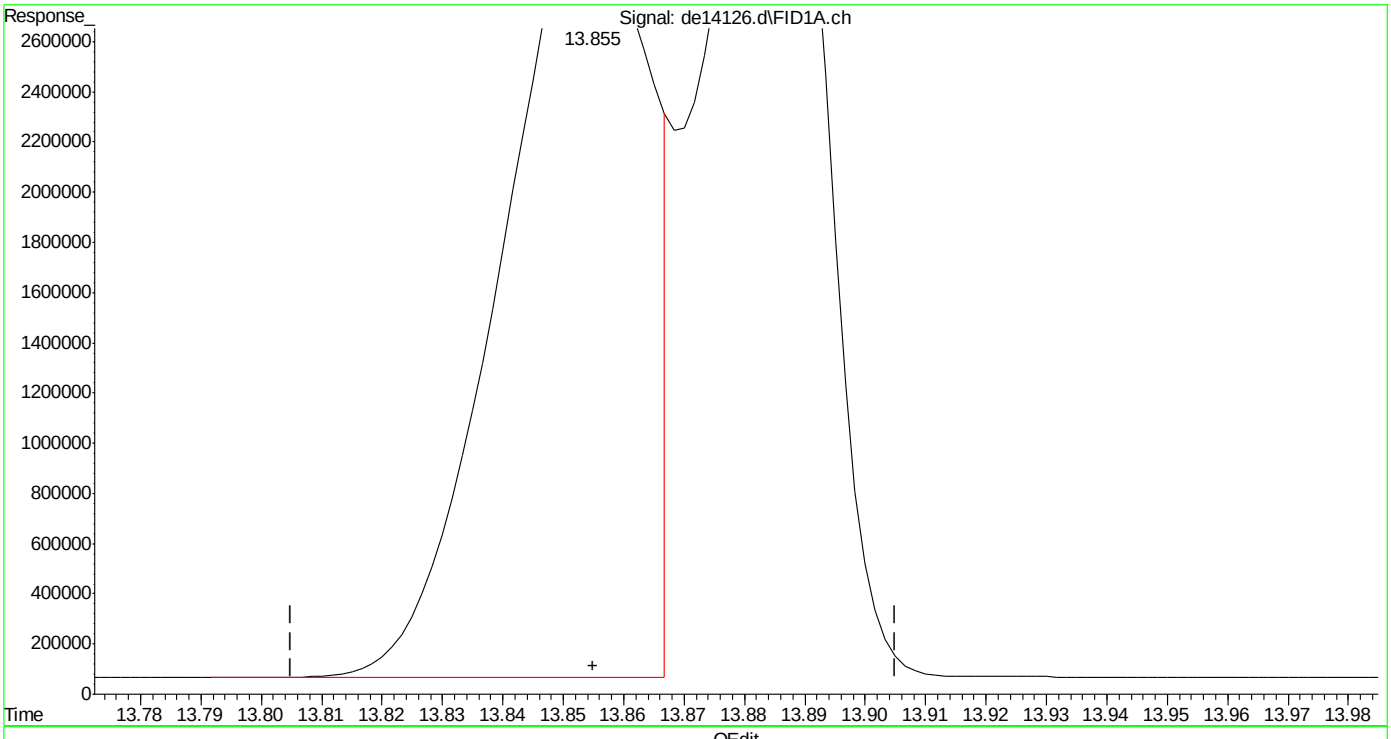
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 7:30 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.855min 52.518 µg/ml
response 5199377

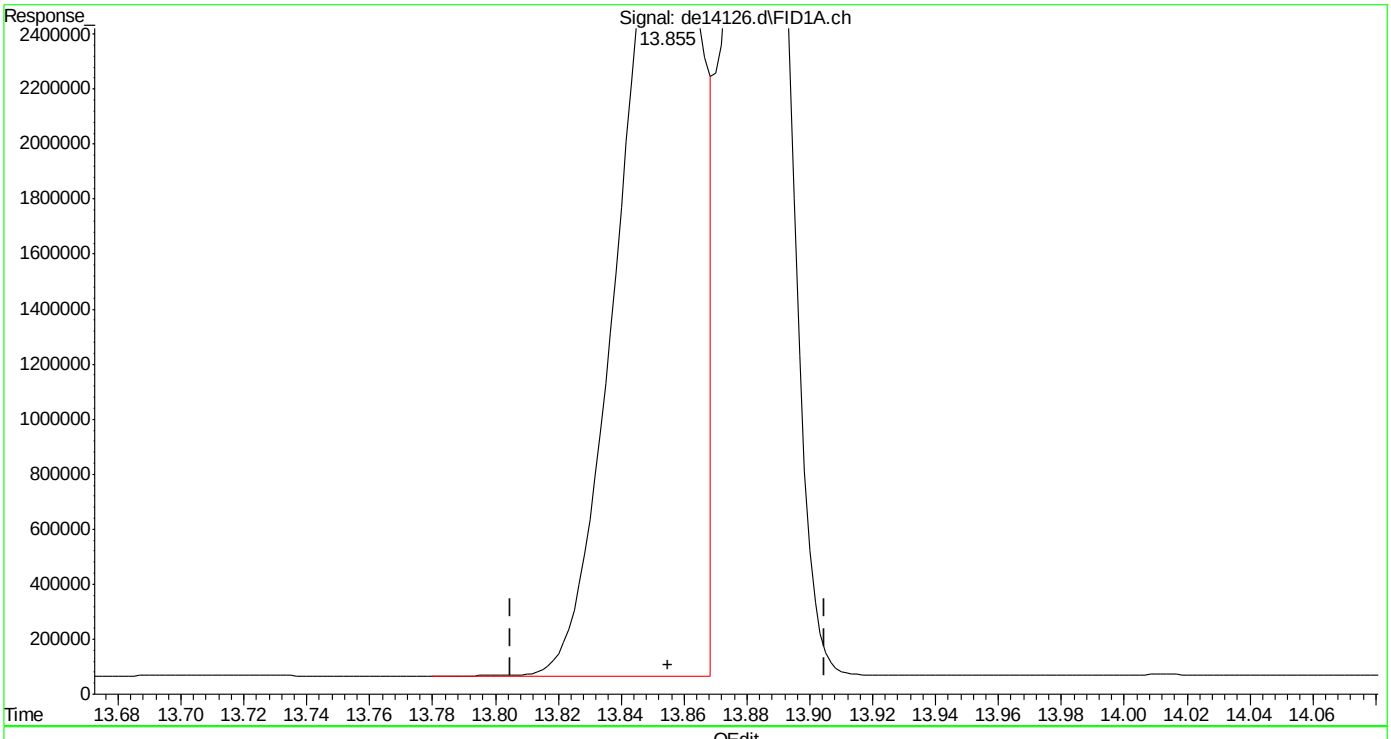
(+) = Expected Retention Time
EPH160518W.M Thu May 19 08:06:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 7:30 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.855min 54.742 µg/ml m
response 5419625

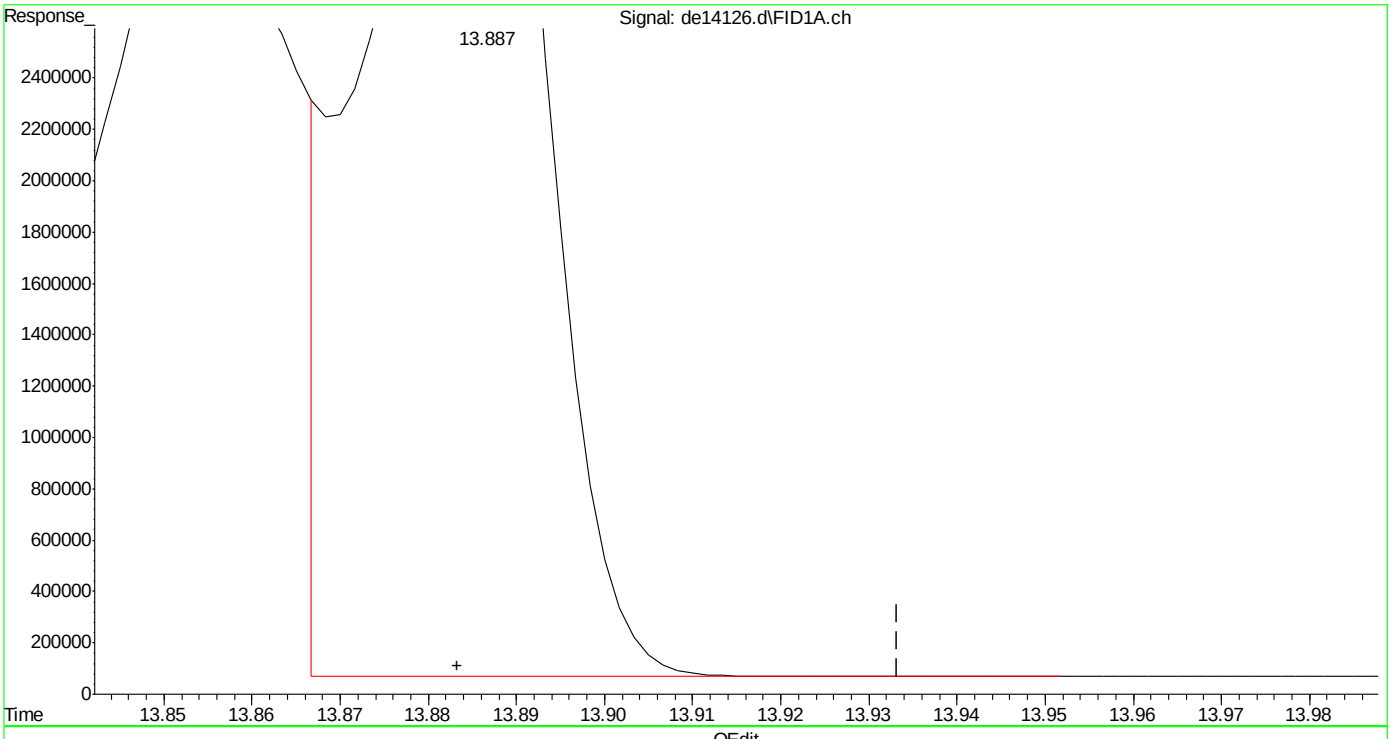
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 7:30 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.887min 57.886 µg/ml
response 5470350

(+) = Expected Retention Time
EPH160518W.M Thu May 19 08:07:15 2016

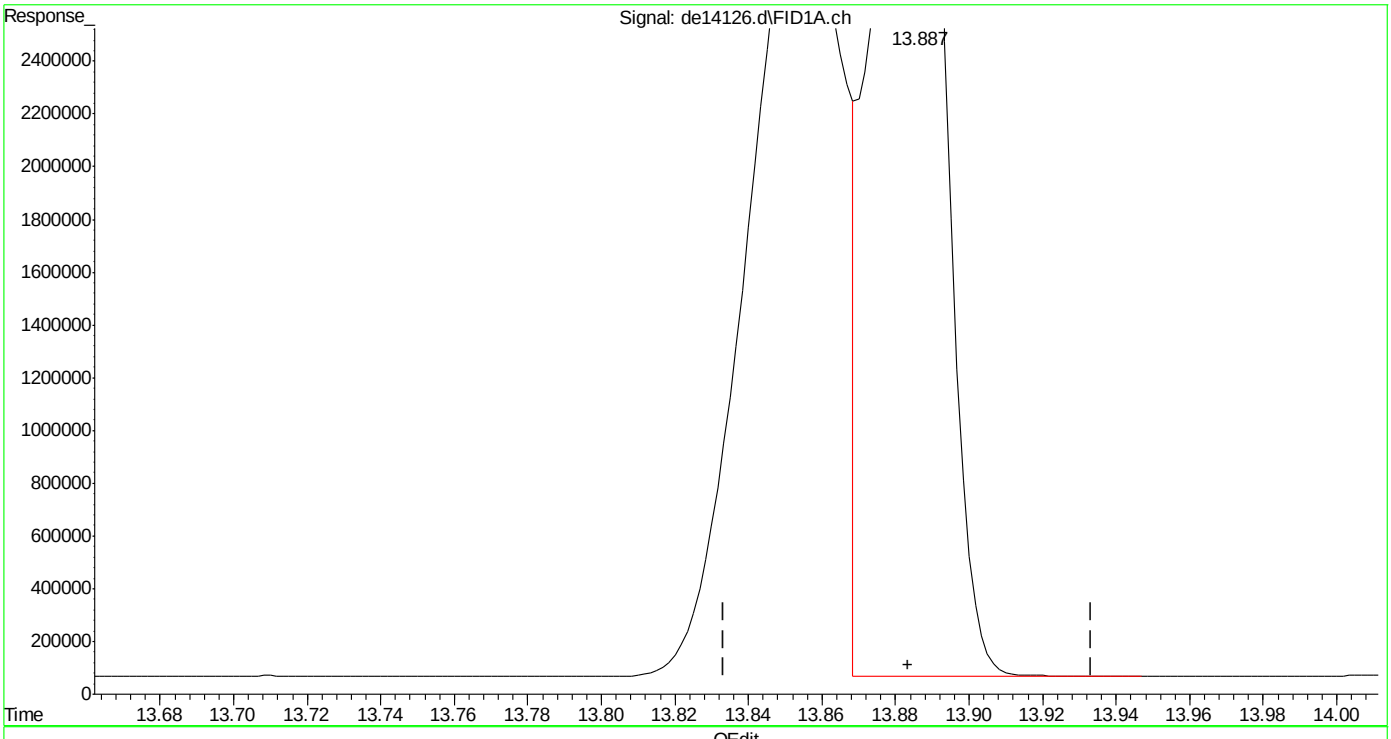
Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14126.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 18 May 2016 7:30 pm
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.887min 55.637 µg/ml m
response 5257880

(+) = Expected Retention Time

SGS ACCUTEST MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/19/16 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 12:38 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:10:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	5263977	57.074 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 285.37%#	
6) s 2-bromonaphthalene	7.332	3555839	56.662 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 283.31%#	
11) s o-terphenyl	9.873	5875107	57.359 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 286.80%#	
35) s 1-chlorooctadecane	11.227	3118726	55.126 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 275.63%#	
Target Compounds			
2) naphthalene	5.152	5905560	57.258 µg/ml
3) 2-methylnaphthalene	6.052	5774880	56.350 µg/ml
5) acenaphthylene	7.165	5791177	57.565 µg/ml
7) acenaphthene	7.407	6043952	58.466 µg/ml
8) fluorene	8.050	5875583	57.849 µg/ml
9) phenanthrene	9.232	5860417	57.589 µg/ml
10) anthracene	9.290	5616259	57.895 µg/ml
12) fluoranthene	10.735	5735602	57.390 µg/ml
13) pyrene	10.992	5874902	57.902 µg/ml
14) benzo(a)anthracene	12.555	5458888	56.466 µg/ml
15) chrysene	12.605	5525088	56.760 µg/ml
16) benzo(B)fluoranthene	13.853	5813794	58.724 µg/mlm
17) benzo(k)fluoranthene	13.885	5211303	55.145 µg/mlm
18) benzo(a)pyrene	14.188	5226667	56.544 µg/ml
19) indeno(1,2,3-cd)pyrene	15.327	5380618	56.843 µg/ml
20) dibenzo(ah)anthracene	15.370	5153131	56.381 µg/ml
21) benzo(ghi)perylene	15.552	5213709	56.595 µg/ml
25) h c-9	2.648	4056702	54.915 µg/mlm
26) h c-10	3.815	4078391	55.209 µg/ml
27) naphthalene #2	5.488	4347523	54.431 µg/ml
28) c-12	5.667	4034724	54.618 µg/ml
29) 2-methylnaphthalene #2	6.382	4329776	53.742 µg/ml
30) c-14	7.183	4001998	54.175 µg/ml
31) c-16	8.513	3963430	53.653 µg/ml
32) c-18	9.707	3961362	53.625 µg/ml
33) c-19	10.262	3930032	58.827 µg/ml
34) c-20	10.793	3854715	57.700 µg/ml
36) c-22	11.788	3829591	57.324 µg/ml
37) c-24	12.705	3575271	53.517 µg/ml
38) c-26	13.558	3802525	56.919 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 12:38 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:10:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	3666532	54.883	µg/ml
40) h	c-30	15.098	3650785	54.647	µg/ml
41) h	c-36	17.008	3285554	49.180	µg/mlm

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

9.5.14

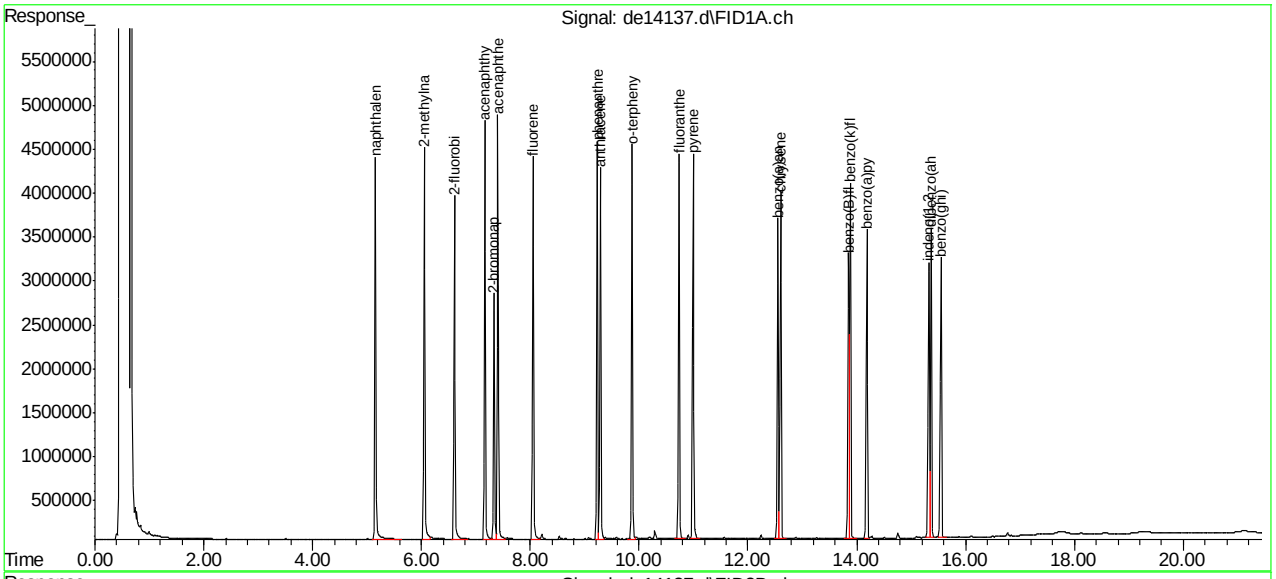
9

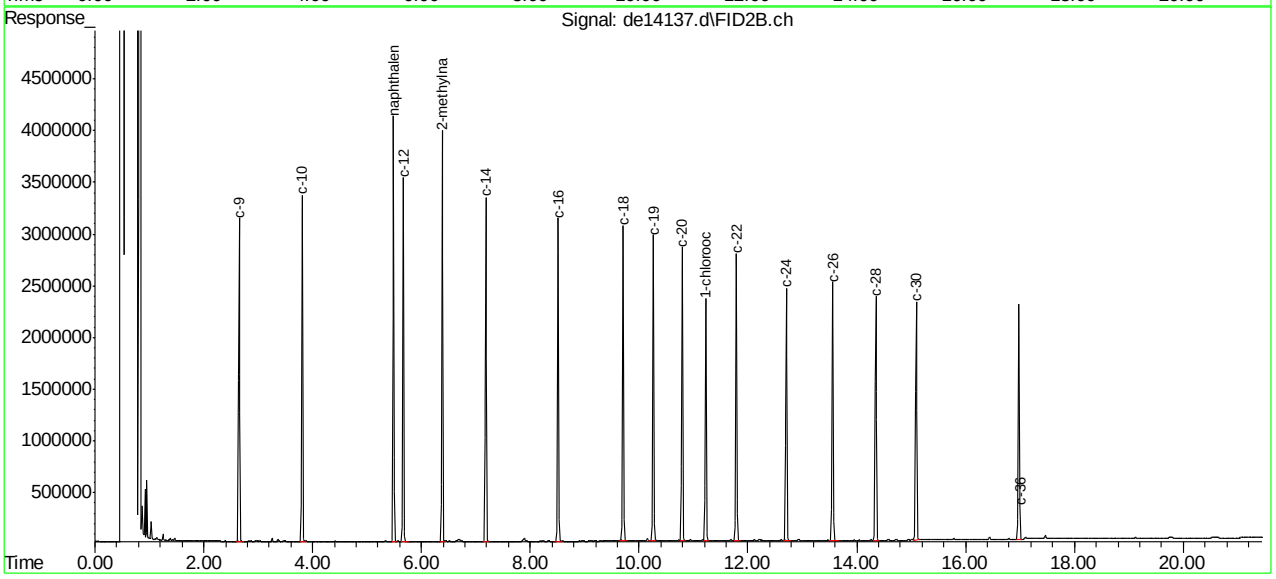
Quantitation Report (QT Reviewed)

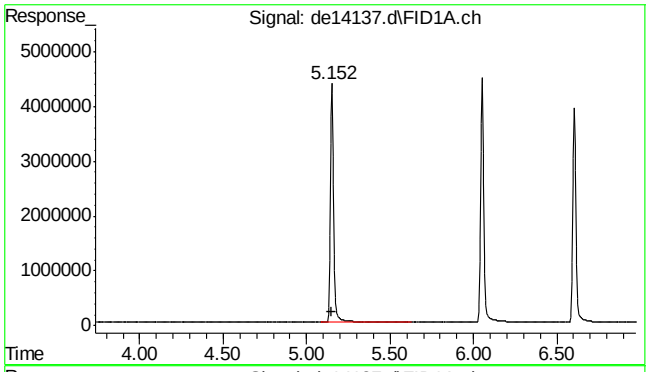
Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 12:38 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:10:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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

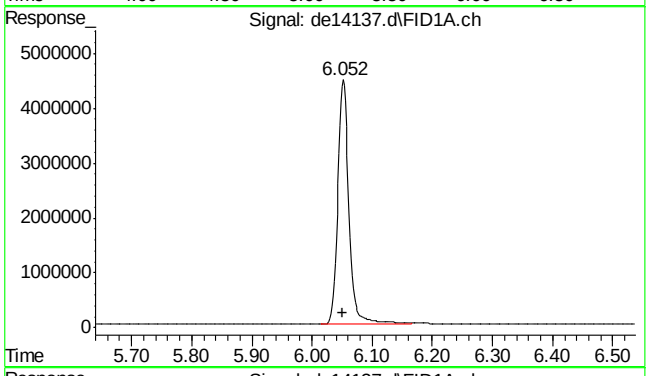






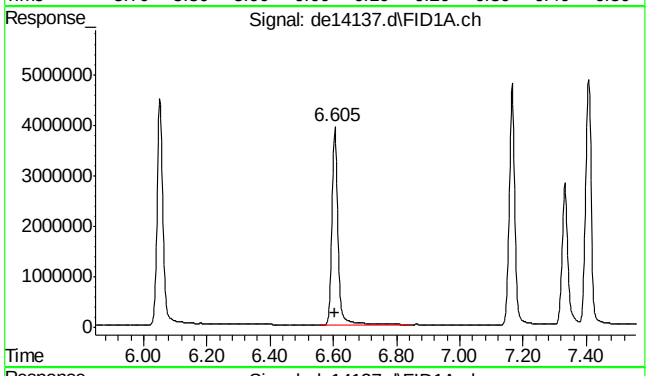
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.000 min
Response: 5905560
Conc: 57.26 µg/ml



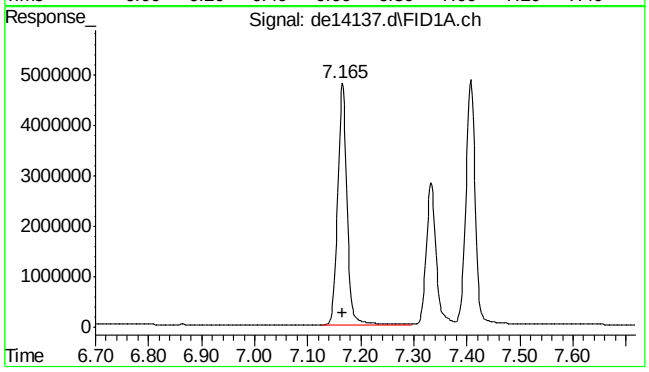
#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.000 min
Response: 5774880
Conc: 56.35 µg/ml



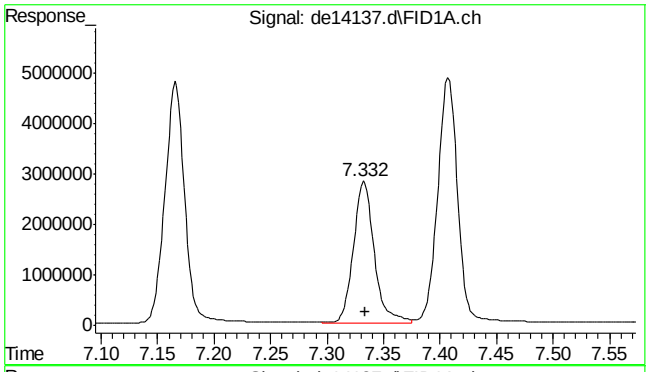
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 5263977
Conc: 57.07 µg/ml



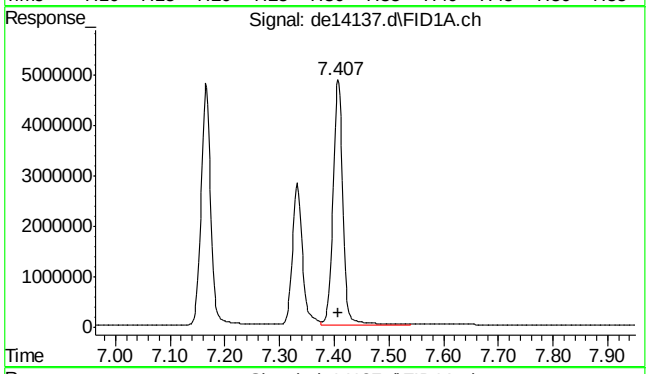
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: -0.002 min
Response: 5791177
Conc: 57.57 µg/ml



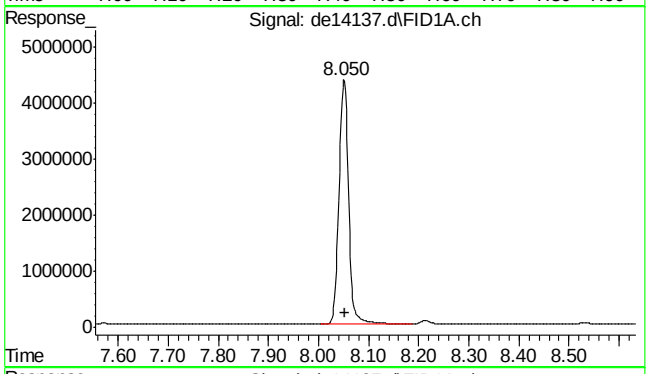
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: -0.002 min
Response: 3555839
Conc: 56.66 µg/ml



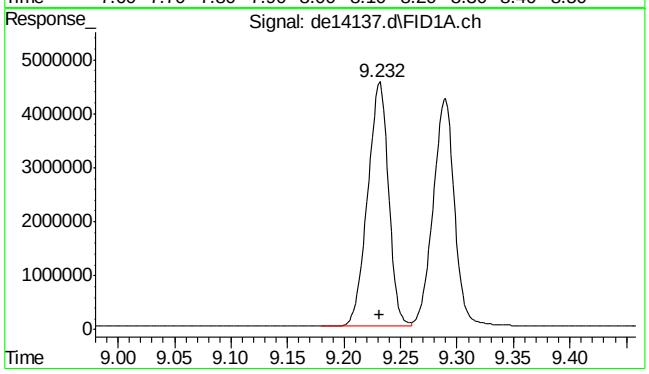
#7 acenaphthene

R.T.: 7.407 min
Delta R.T.: 0.000 min
Response: 6043952
Conc: 58.47 µg/ml



#8 fluorene

R.T.: 8.050 min
Delta R.T.: -0.002 min
Response: 5875583
Conc: 57.85 µg/ml



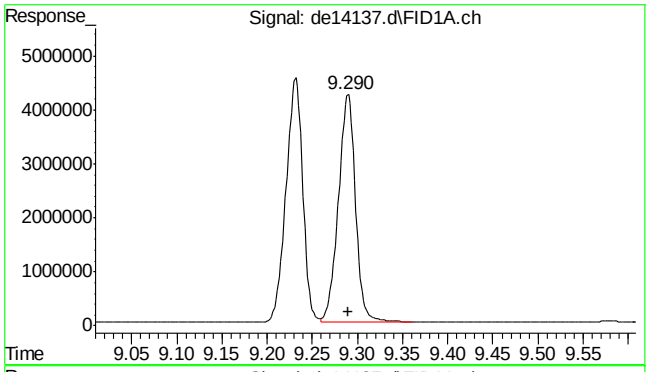
#9 phenanthrene

R.T.: 9.232 min
Delta R.T.: 0.000 min
Response: 5860417
Conc: 57.59 µg/ml

9.5.14

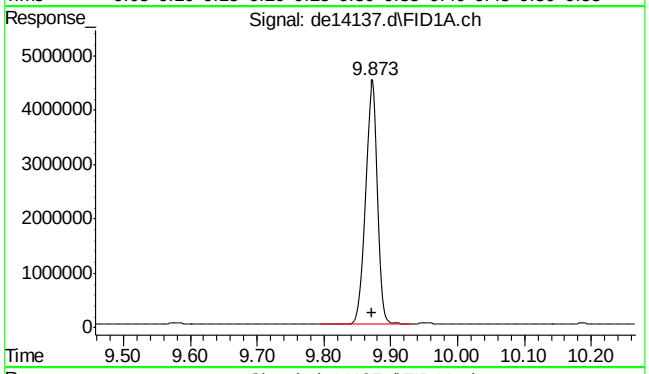
9

SGS ACCUTEST MC45678



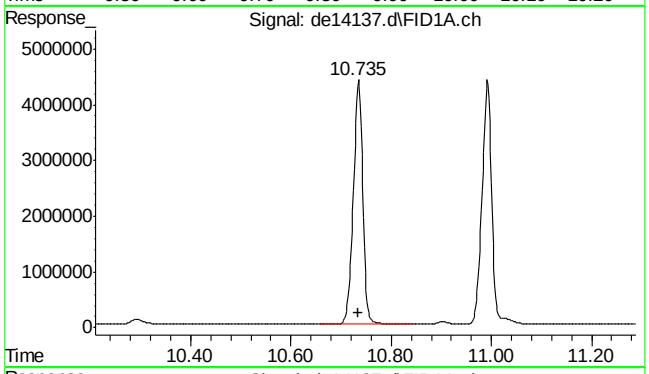
#10 anthracene

R.T.: 9.290 min
Delta R.T.: 0.000 min
Response: 5616259
Conc: 57.89 µg/ml



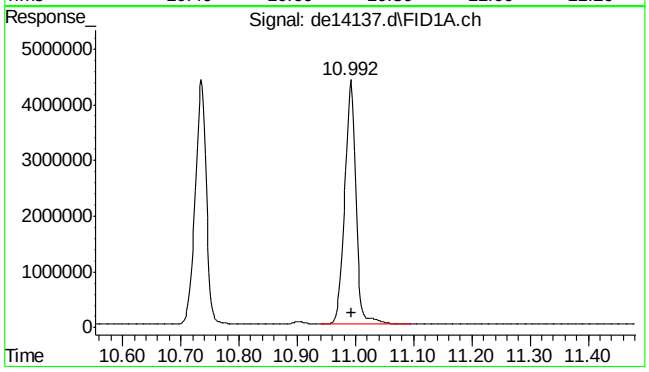
#11 o-terphenyl

R.T.: 9.873 min
Delta R.T.: 0.002 min
Response: 5875107
Conc: 57.36 µg/ml



#12 fluoranthene

R.T.: 10.735 min
Delta R.T.: 0.000 min
Response: 5735602
Conc: 57.39 µg/ml



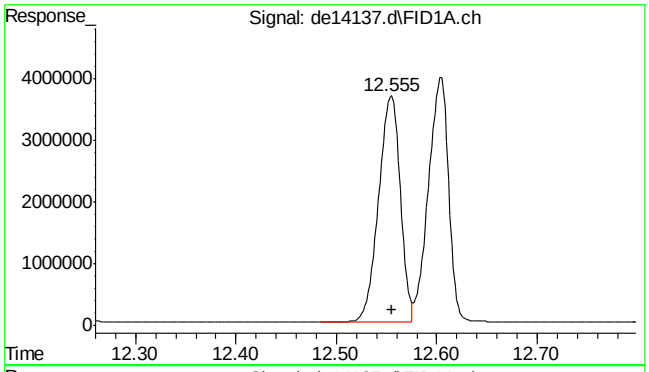
#13 pyrene

R.T.: 10.992 min
Delta R.T.: -0.002 min
Response: 5874902
Conc: 57.90 µg/ml

9.5.14

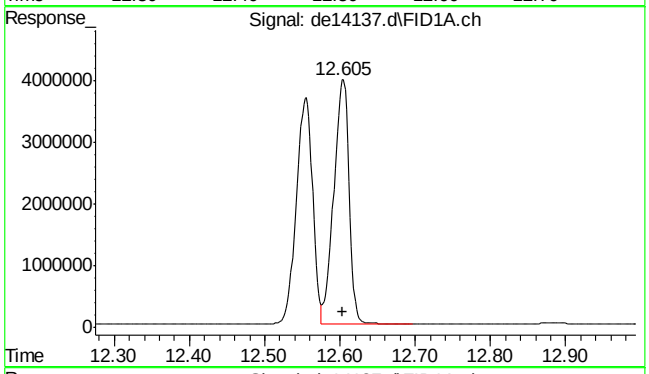
9

SGS ACCUTEST MC45678



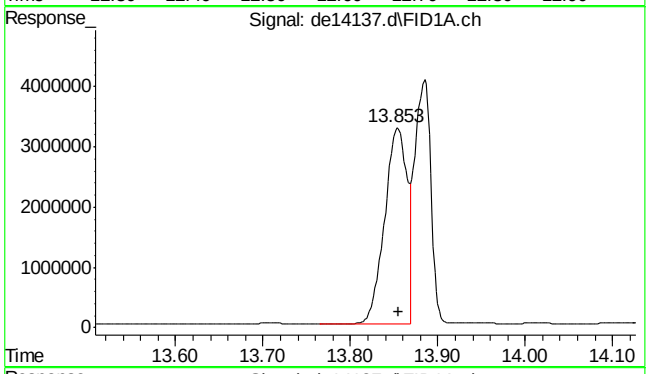
#14 benzo(a)anthracene

R.T.: 12.555 min
Delta R.T.: 0.000 min
Response: 5458888
Conc: 56.47 µg/ml



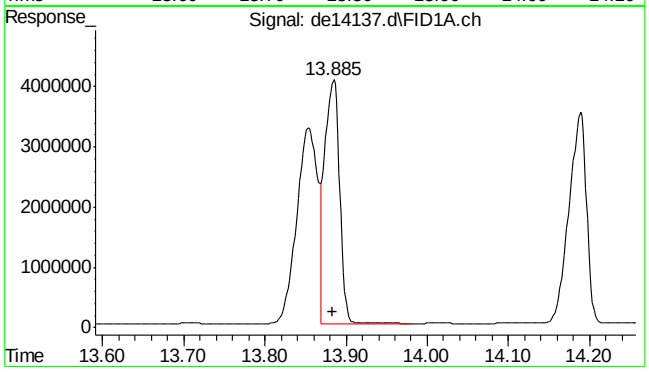
#15 chrysene

R.T.: 12.605 min
Delta R.T.: 0.002 min
Response: 5525088
Conc: 56.76 µg/ml



#16 benzo(B)fluoranthene

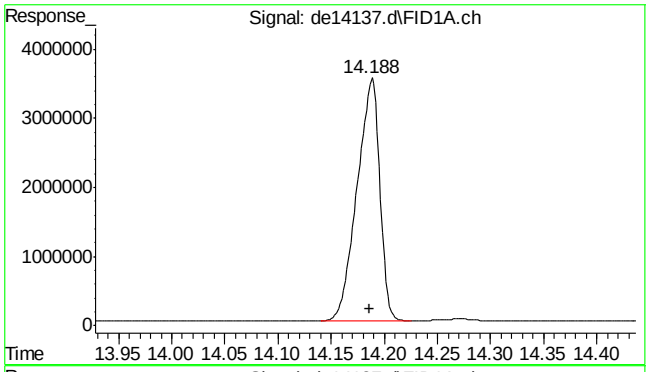
R.T.: 13.853 min
Delta R.T.: -0.002 min
Response: 5813794
Conc: 58.72 µg/ml m



#17 benzo(k)fluoranthene

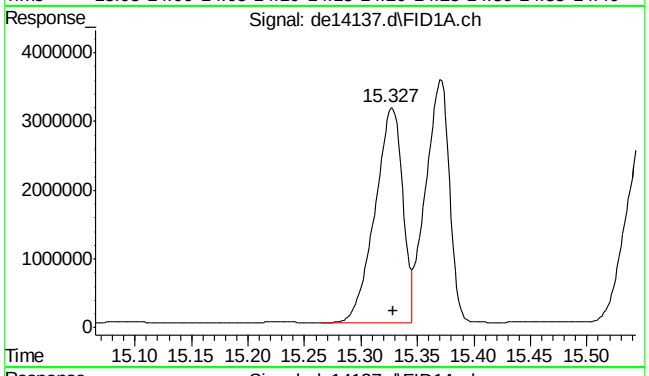
R.T.: 13.885 min
Delta R.T.: 0.002 min
Response: 5211303
Conc: 55.14 µg/ml m

SGS ACCUTEST MC45678



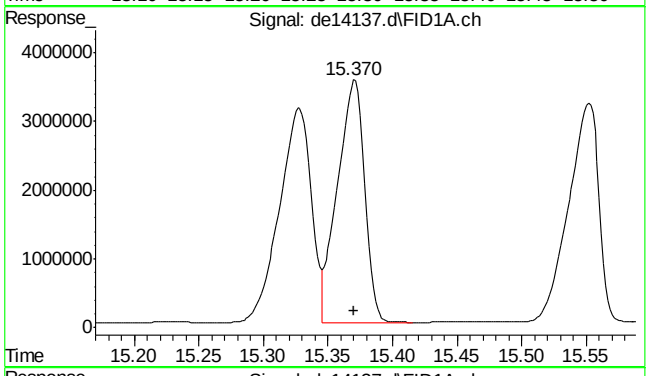
#18 benzo(a)pyrene

R.T.: 14.188 min
Delta R.T.: 0.002 min
Response: 5226667
Conc: 56.54 µg/ml



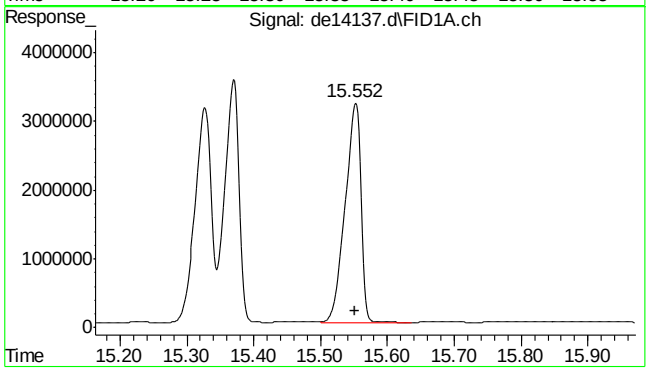
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.327 min
Delta R.T.: -0.002 min
Response: 5380618
Conc: 56.84 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 5153131
Conc: 56.38 µg/ml



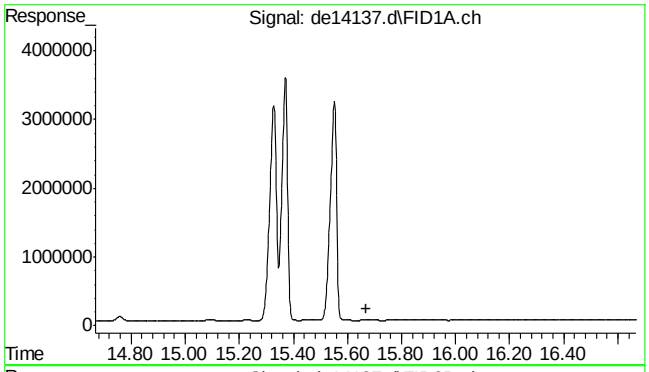
#21 benzo(ghi)perylene

R.T.: 15.552 min
Delta R.T.: 0.000 min
Response: 5213709
Conc: 56.59 µg/ml

9.5.14

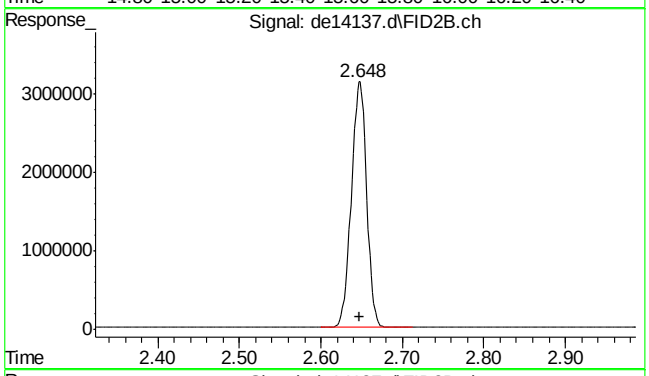
9

SGS ACCUTEST MC45678



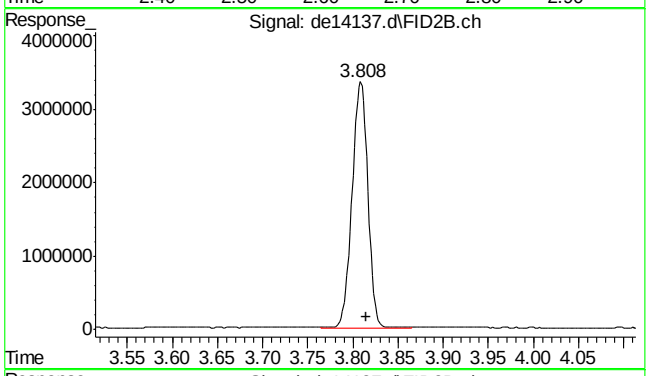
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



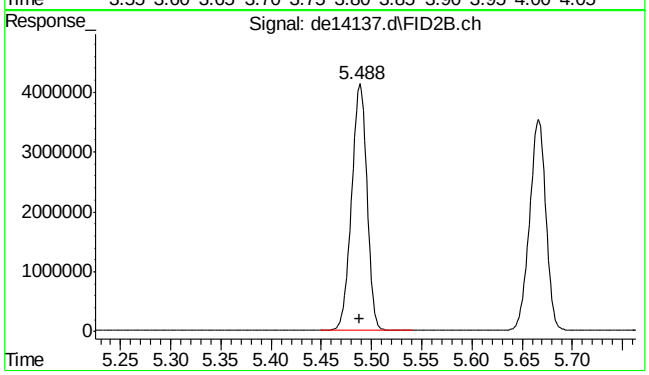
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4056702
Conc: 54.92 µg/ml m



#26 c-10

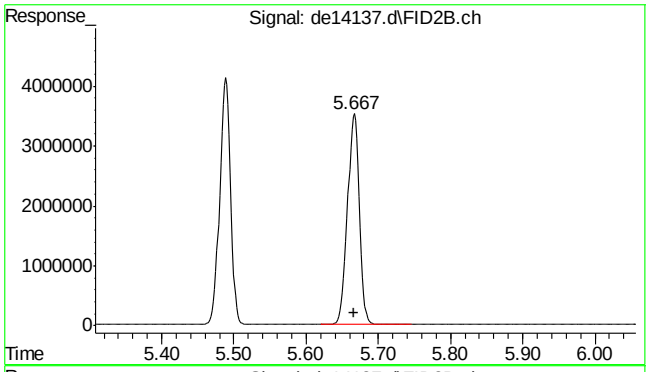
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4078391
Conc: 55.21 µg/ml



#27 naphthalene #2

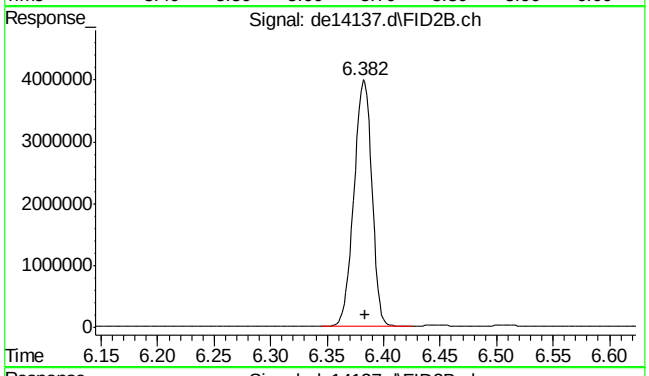
R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4347523
Conc: 54.43 µg/ml

SGS ACCUTEST MC45678



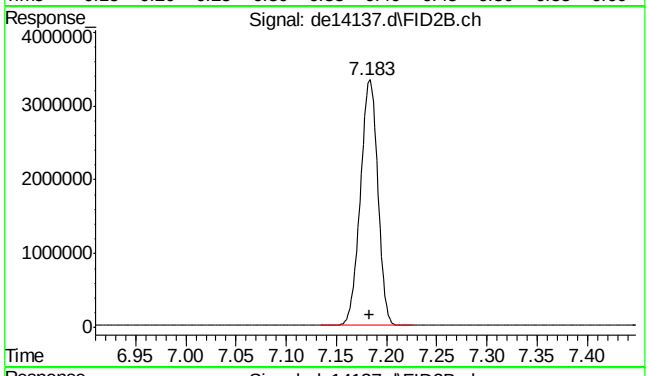
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 4034724
Conc: 54.62 µg/ml



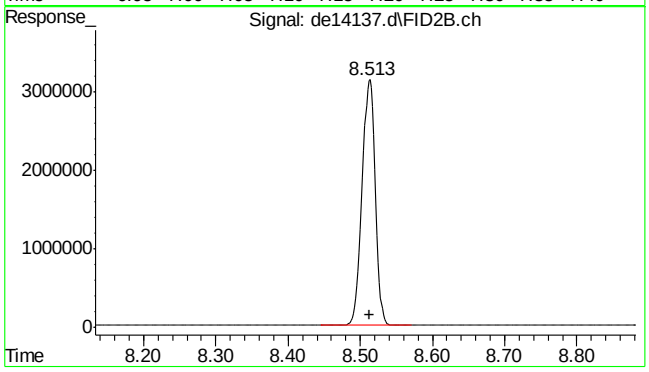
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 4329776
Conc: 53.74 µg/ml



#30 c-14

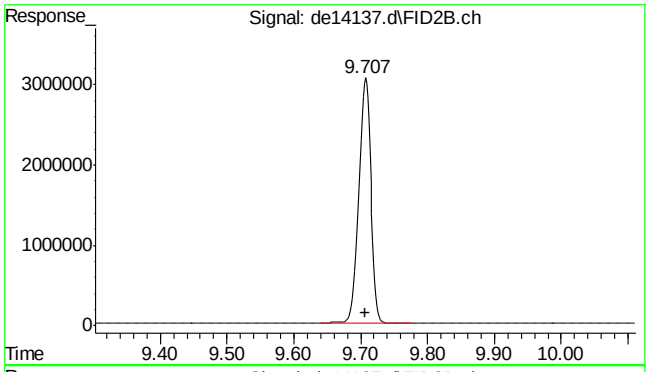
R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 4001998
Conc: 54.17 µg/ml



#31 c-16

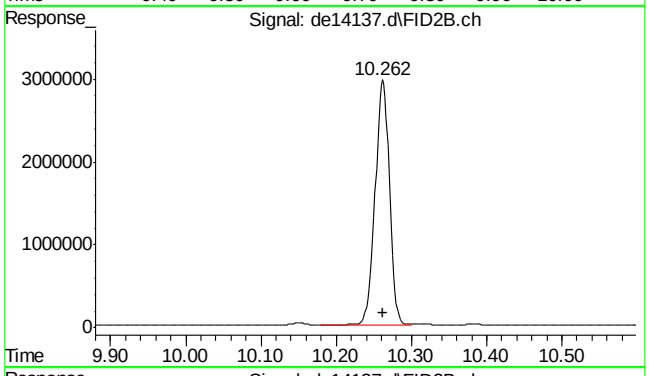
R.T.: 8.513 min
Delta R.T.: 0.000 min
Response: 3963430
Conc: 53.65 µg/ml

SGS ACCUTEST MC45678



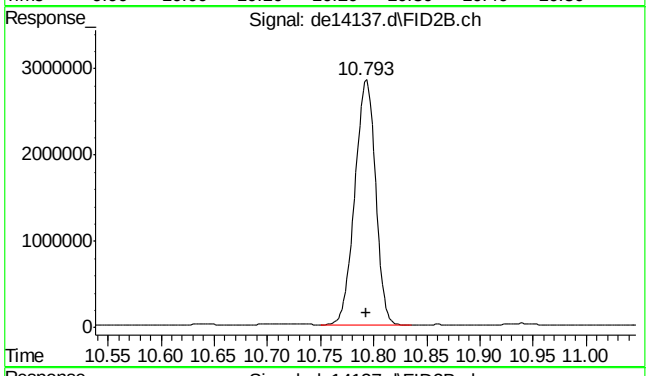
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3961362
Conc: 53.62 µg/ml



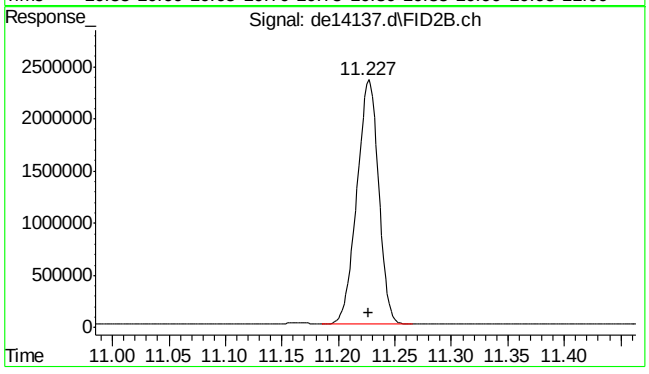
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3930032
Conc: 58.83 µg/ml



#34 c-20

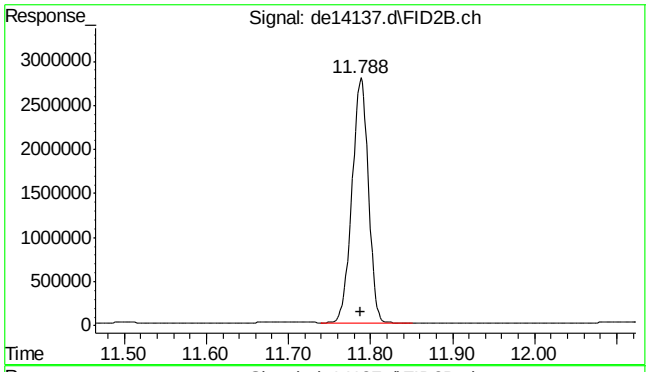
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3854715
Conc: 57.70 µg/ml



#35 1-chlorooctadecane

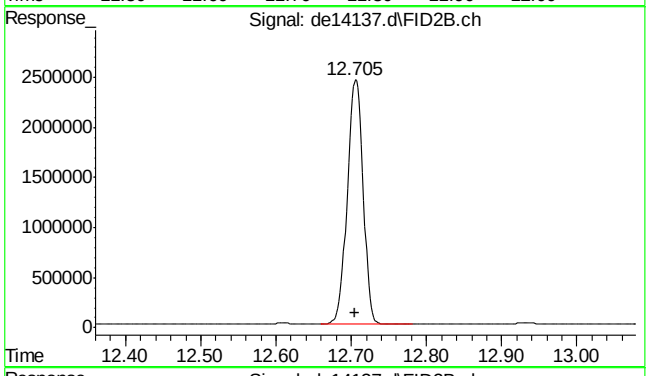
R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 3118726
Conc: 55.13 µg/ml

SGS ACCUTEST MC45678



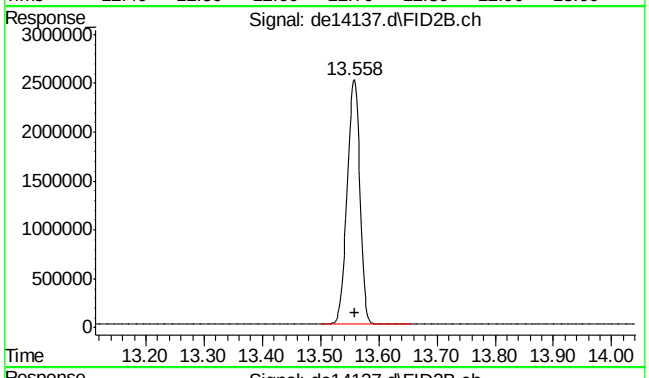
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3829591
Conc: 57.32 µg/ml



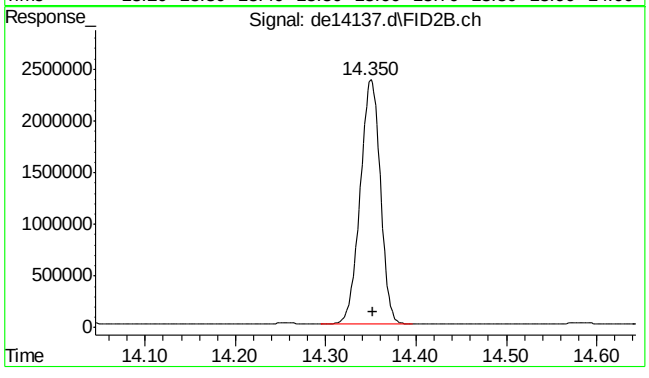
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3575271
Conc: 53.52 µg/ml



#38 c-26

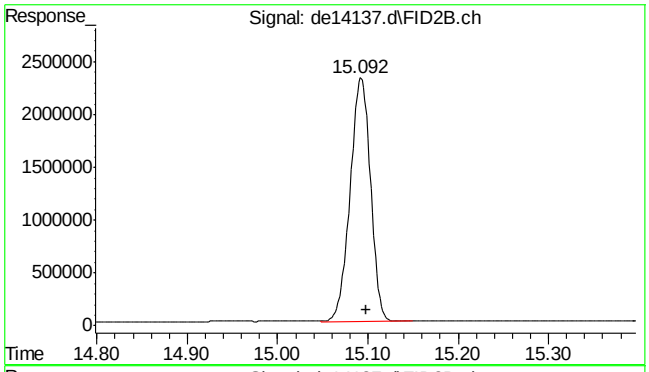
R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3802525
Conc: 56.92 µg/ml



#39 c-28

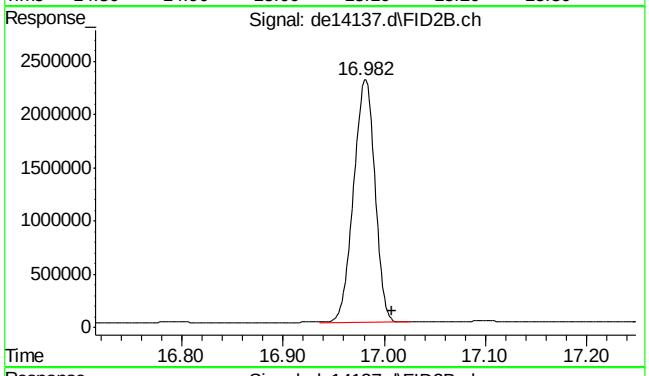
R.T.: 14.350 min
Delta R.T.: -0.002 min
Response: 3666532
Conc: 54.88 µg/ml

SGS ACCUTEST MC45678



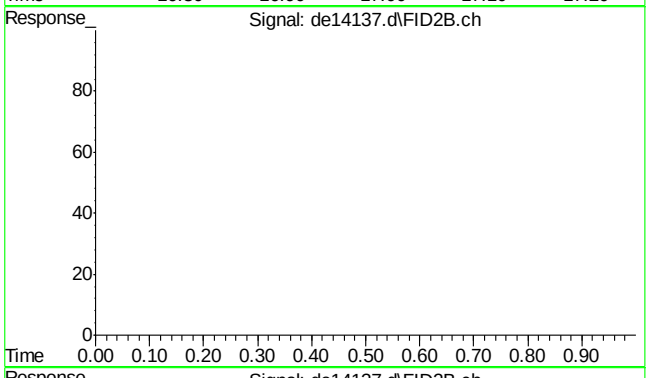
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3650785
Conc: 54.65 µg/ml



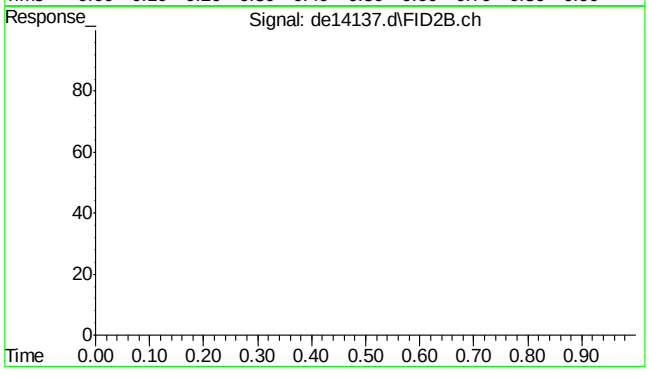
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3285554
Conc: 49.18 µg/ml m



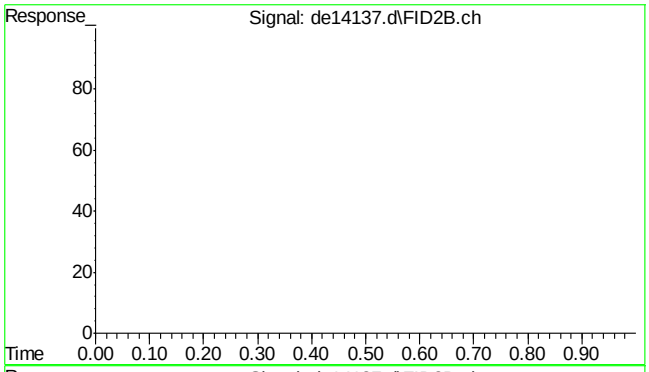
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



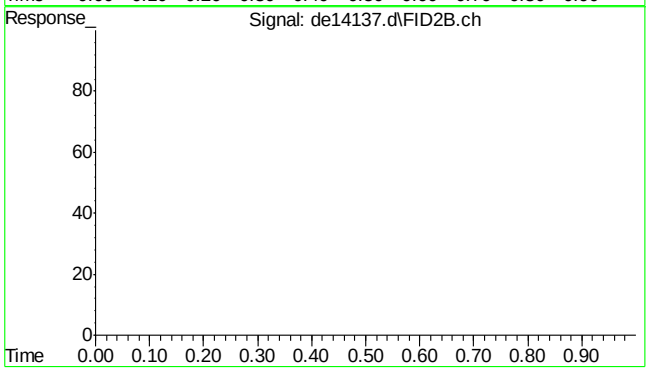
#43 bht

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

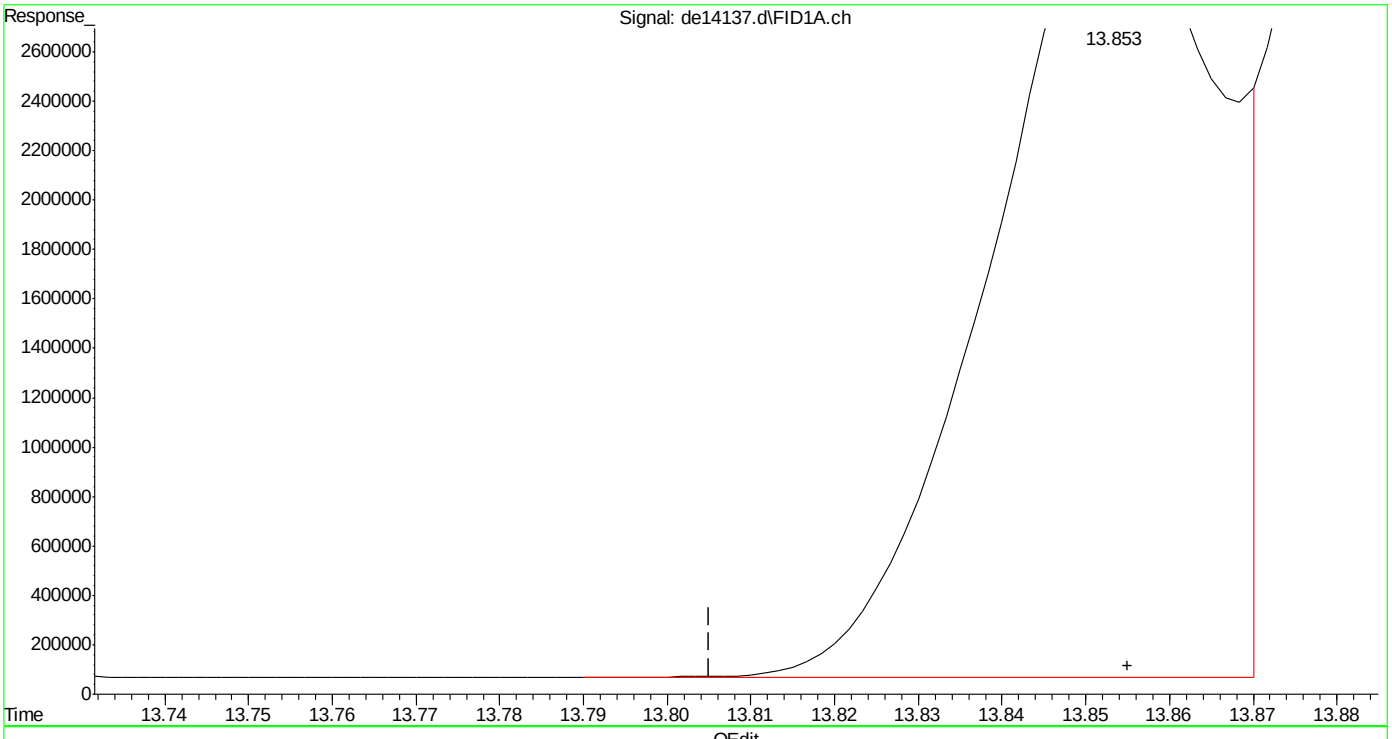
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 12:38 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.853min 61.104 µg/ml
response 6049478

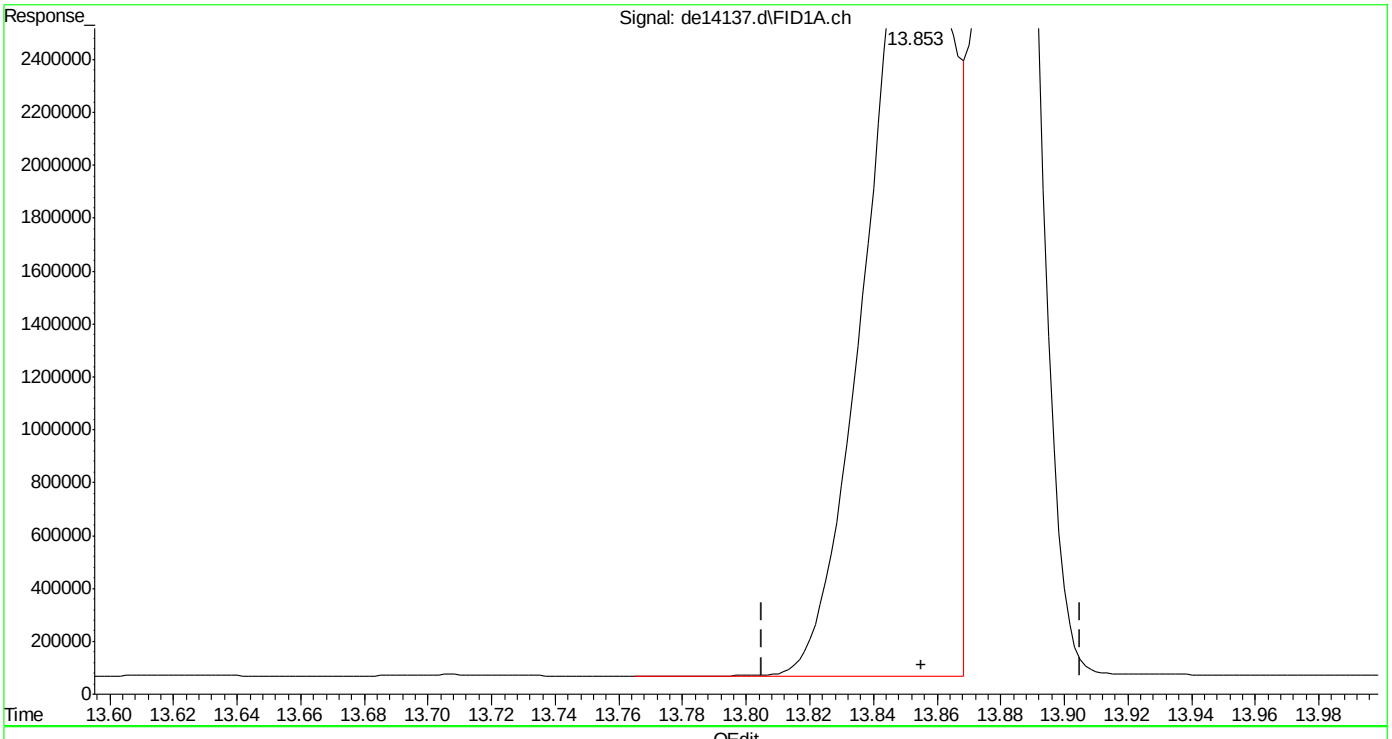
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 12:38 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.853min 58.724 µg/ml m
response 5813794

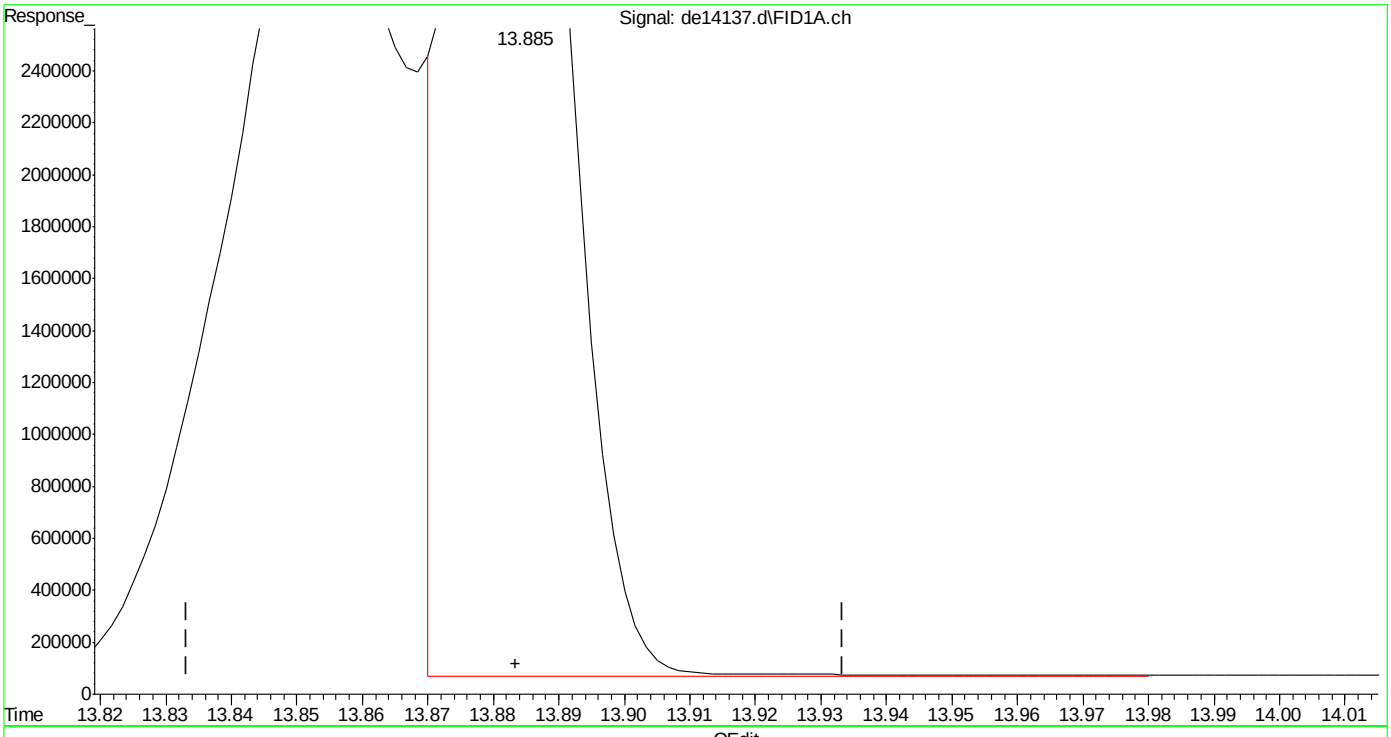
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 12:38 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.885min 52.547 µg/ml
response 4965816

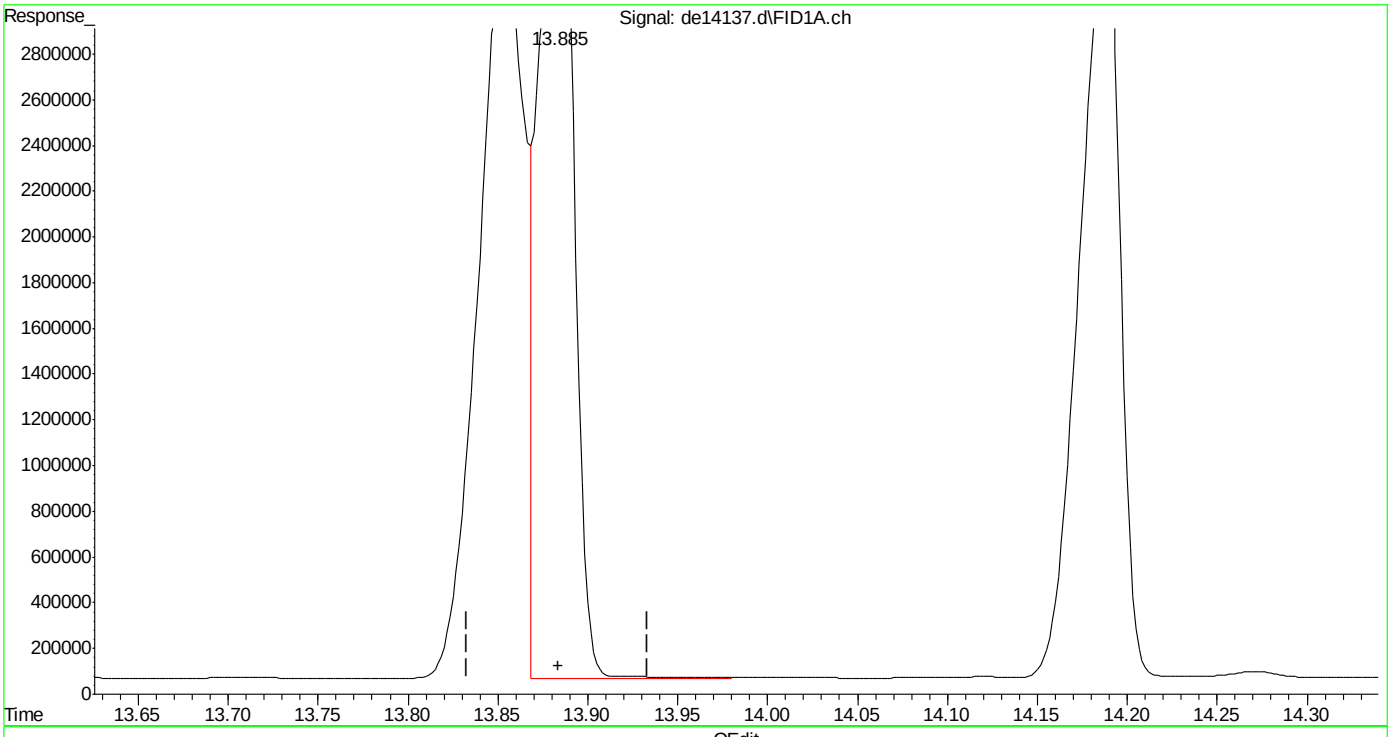
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14137.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 12:38 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.885min 55.145 µg/ml m
response 5211303

(+) = Expected Retention Time
EPH160518W.M Thu May 19 08:09:40 2016

SGS ACCUTEST MC45678

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/19/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:44 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:12:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	4950313	53.674 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 268.37%#
6) s	2-bromonaphthalene	7.333	3317439	52.863 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 264.32%#
11) s	o-terphenyl	9.872	5509735	53.792 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 268.96%#
35) s	1-chlorooctadecane	11.227	3113763	55.038 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 275.19%#
	Target Compounds			
2)	naphthalene	5.152	5557336	53.881 µg/ml
3)	2-methylnaphthalene	6.052	5433682	53.021 µg/ml
5)	acenaphthylene	7.167	5444716	54.122 µg/ml
7)	acenaphthene	7.408	5623556	54.399 µg/ml
8)	fluorene	8.052	5528801	54.435 µg/ml
9)	phenanthrene	9.232	5500478	54.052 µg/ml
10)	anthracene	9.290	5285024	54.480 µg/ml
12)	fluoranthene	10.735	5399597	54.028 µg/ml
13)	pyrene	10.992	5532095	54.524 µg/ml
14)	benzo(a)anthracene	12.555	5168353	53.461 µg/ml
15)	chrysene	12.603	5265134	54.090 µg/ml
16)	benzo(B)fluoranthene	13.852	5410745	54.653 µg/mlm
17)	benzo(k)fluoranthene	13.883	5172826	54.737 µg/mlm
18)	benzo(a)pyrene	14.187	5042236	54.549 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.328	5247544	55.437 µg/ml
20)	dibenzo(ah)anthracene	15.372	5033686	55.074 µg/ml
21)	benzo(ghi)perylene	15.552	5098148	55.341 µg/ml
25) h	c-9	2.648	4007534	54.250 µg/mlm
26) h	c-10	3.815	4038682	54.671 µg/ml
27)	naphthalene #2	5.488	4306168	53.913 µg/ml
28)	c-12	5.667	3999737	54.144 µg/ml
29)	2-methylnaphthalene #2	6.382	4295790	53.320 µg/ml
30)	c-14	7.183	3977079	53.837 µg/ml
31)	c-16	8.512	3941018	53.349 µg/ml
32)	c-18	9.707	3950450	53.477 µg/ml
33)	c-19	10.262	3923485	58.729 µg/ml
34)	c-20	10.792	3853023	57.674 µg/ml
36)	c-22	11.788	3837703	57.445 µg/ml
37)	c-24	12.707	3584964	53.662 µg/ml
38)	c-26	13.557	3813038	57.076 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:44 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:12:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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	3682474	55.122	µg/ml
40) h	c-30	15.098	3677443	55.046	µg/ml
41) h	c-36	17.008	3338500	49.973	µg/mlm

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

9.5.15

9

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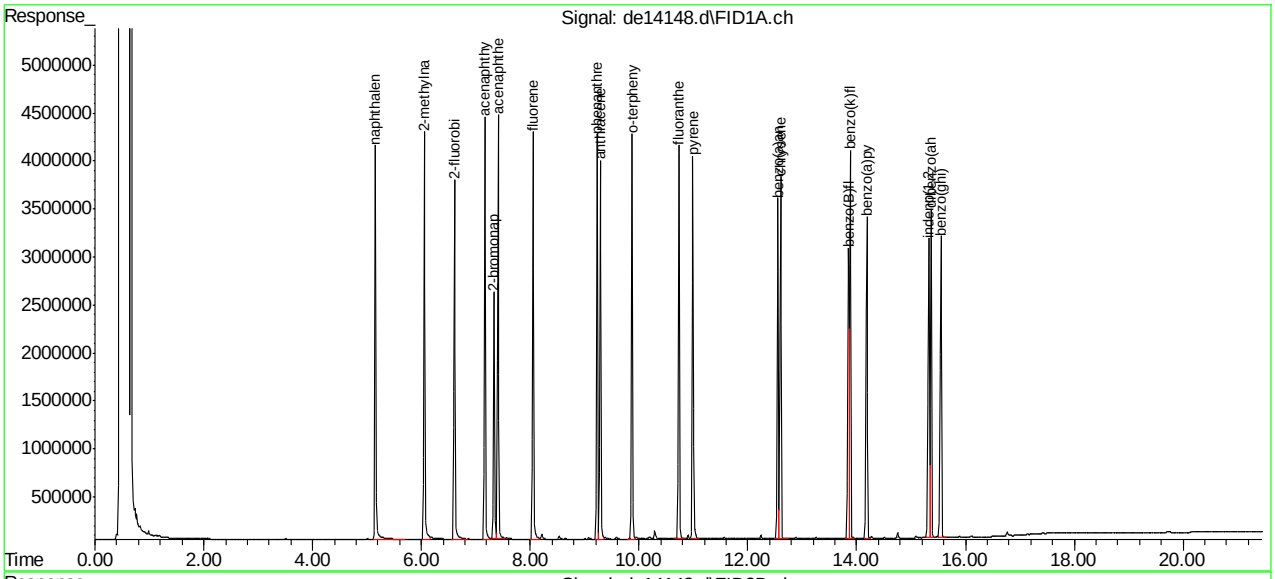
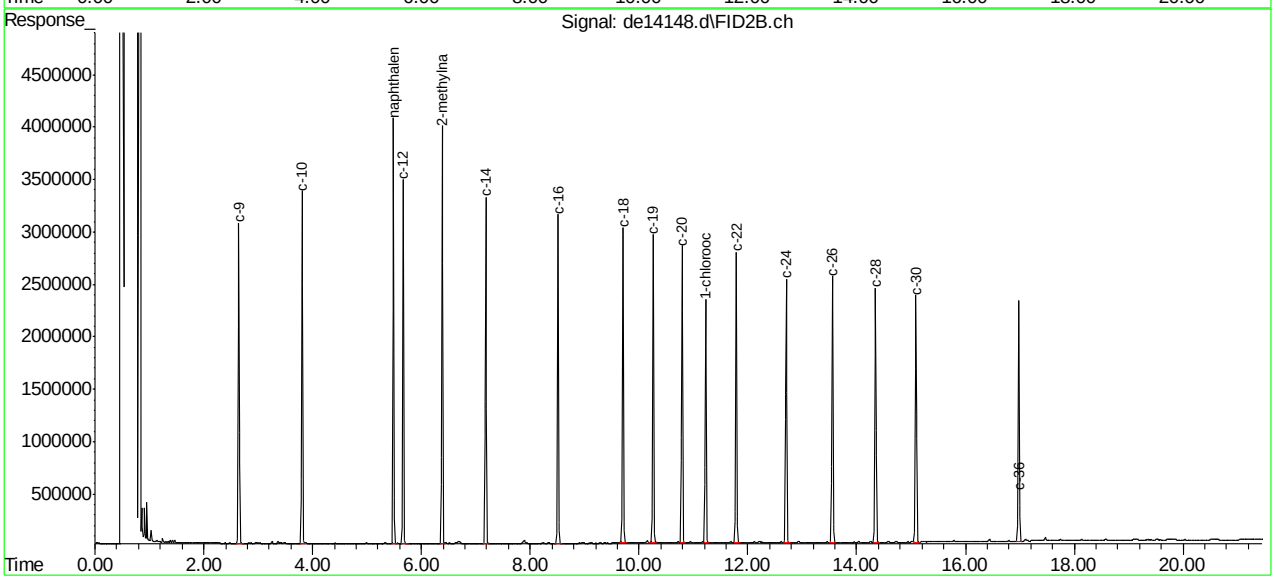
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:44 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

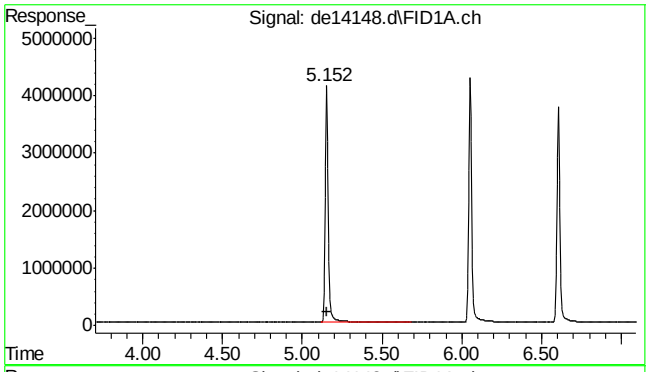
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:12:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



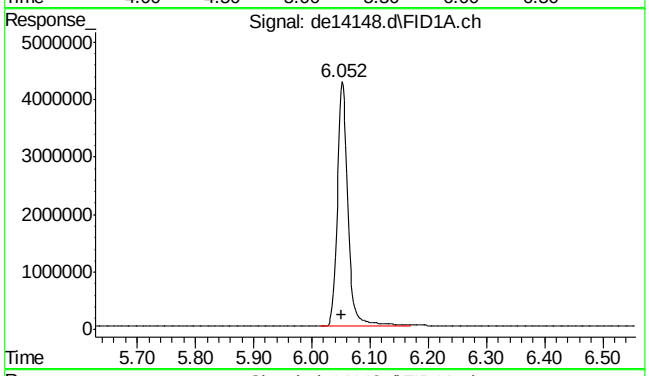


SGS ACCUTEST MC45678



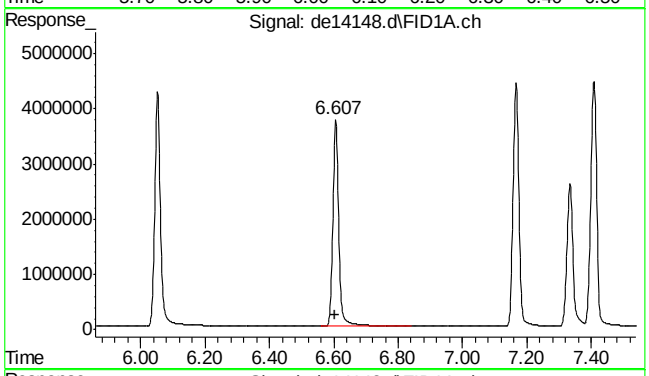
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.000 min
Response: 5557336
Conc: 53.88 µg/ml



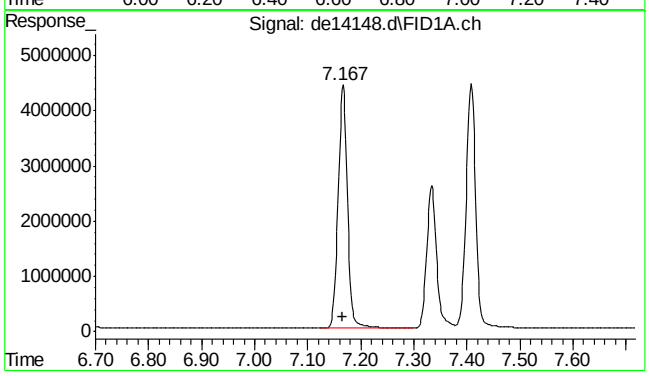
#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.000 min
Response: 5433682
Conc: 53.02 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 4950313
Conc: 53.67 µg/ml



#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 5444716
Conc: 54.12 µg/ml

9.5.15

9

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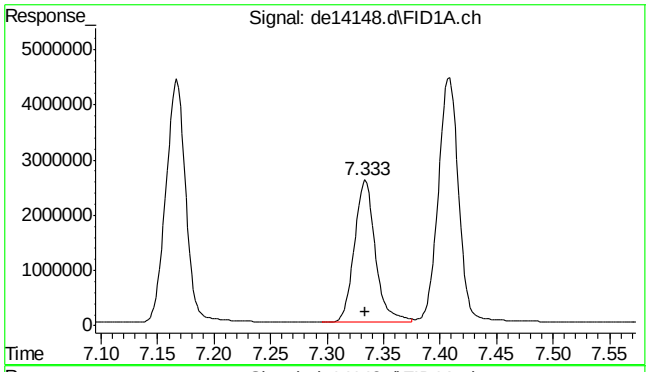
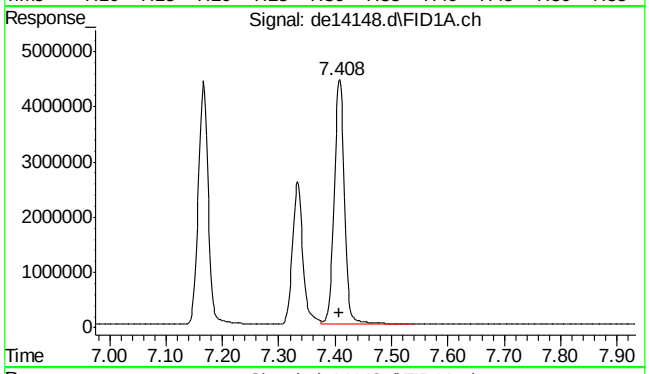


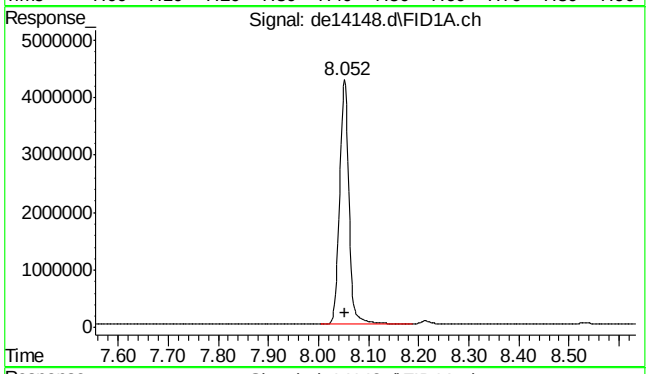
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 3317439
Conc: 52.86 µg/ml



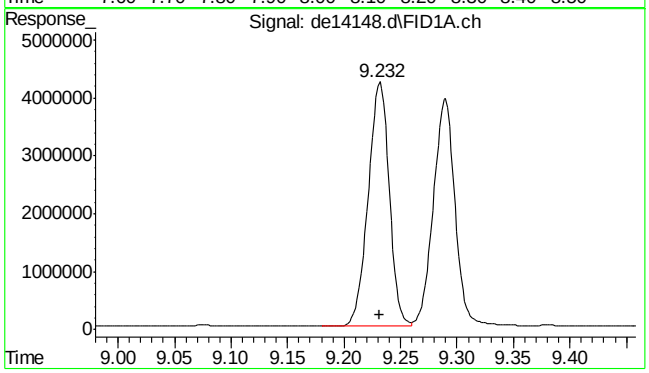
#7 acenaphthene

R.T.: 7.408 min
Delta R.T.: 0.002 min
Response: 5623556
Conc: 54.40 µg/ml



#8 fluorene

R.T.: 8.052 min
Delta R.T.: 0.000 min
Response: 5528801
Conc: 54.43 µg/ml



#9 phenanthrene

R.T.: 9.232 min
Delta R.T.: 0.000 min
Response: 5500478
Conc: 54.05 µg/ml

9.5.15

9

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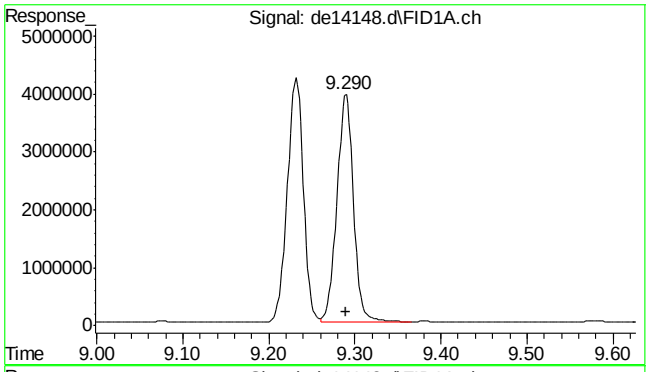
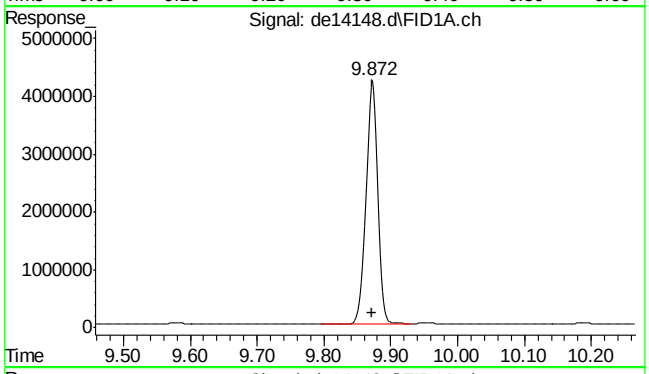


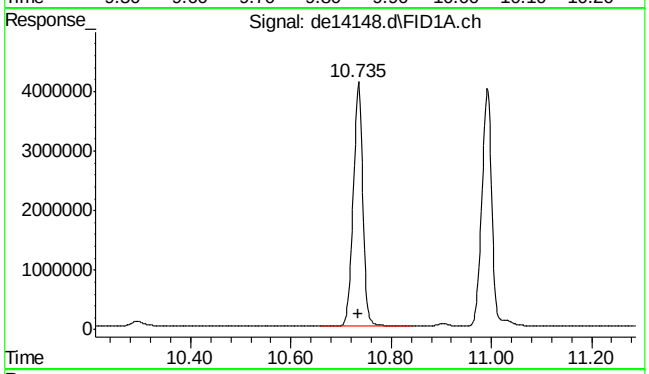
#10 anthracene

R.T.: 9.290 min
Delta R.T.: 0.000 min
Response: 5285024
Conc: 54.48 µg/ml



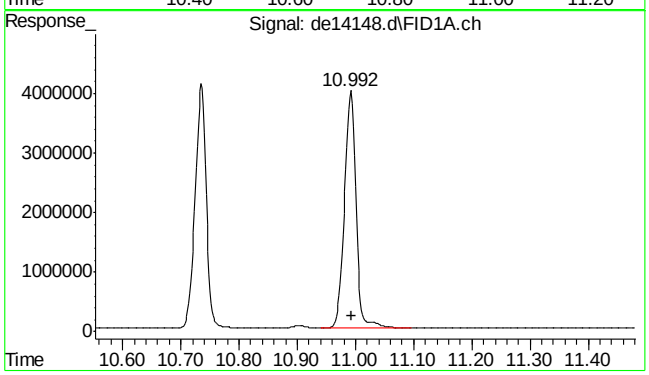
#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: 0.000 min
Response: 5509735
Conc: 53.79 µg/ml



#12 fluoranthene

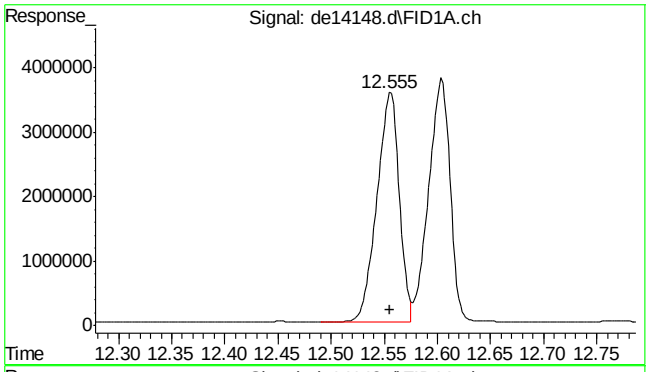
R.T.: 10.735 min
Delta R.T.: 0.000 min
Response: 5399597
Conc: 54.03 µg/ml



#13 pyrene

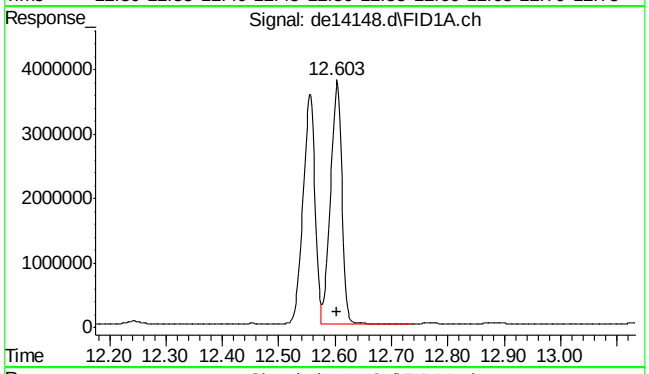
R.T.: 10.992 min
Delta R.T.: -0.002 min
Response: 5532095
Conc: 54.52 µg/ml

SGS ACCUTEST MC45678



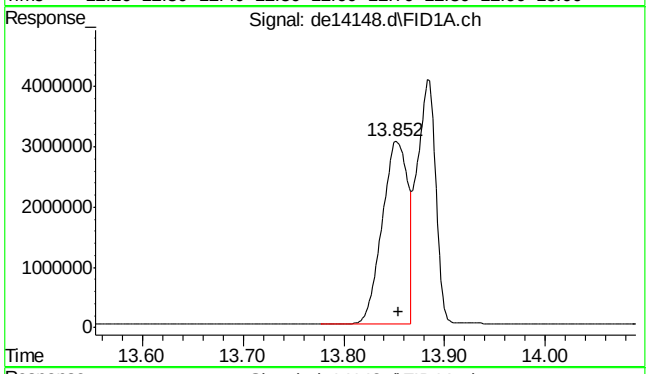
#14 benzo(a)anthracene

R.T.: 12.555 min
Delta R.T.: 0.000 min
Response: 5168353
Conc: 53.46 µg/ml



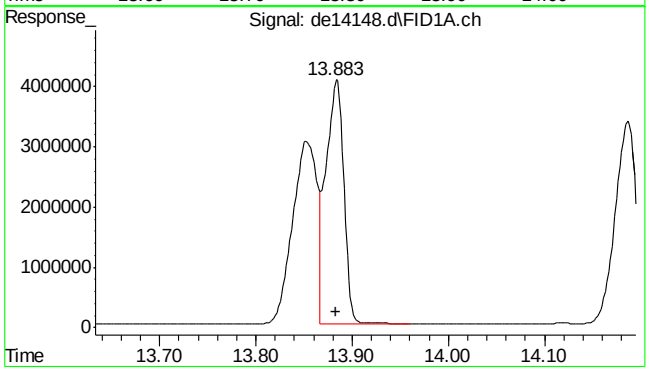
#15 chrysene

R.T.: 12.603 min
Delta R.T.: 0.000 min
Response: 5265134
Conc: 54.09 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.852 min
Delta R.T.: -0.003 min
Response: 5410745
Conc: 54.65 µg/ml m



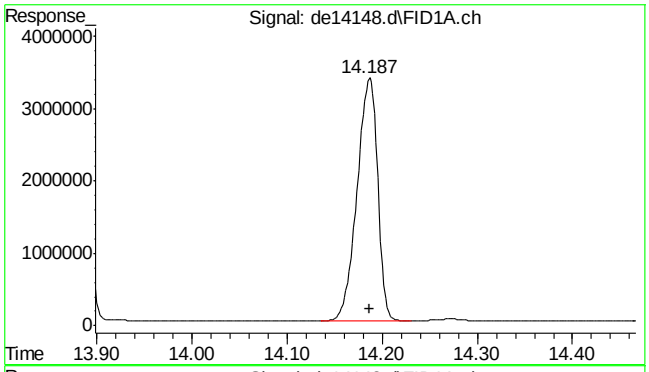
#17 benzo(k)fluoranthene

R.T.: 13.883 min
Delta R.T.: 0.000 min
Response: 5172826
Conc: 54.74 µg/ml m

9.5.15

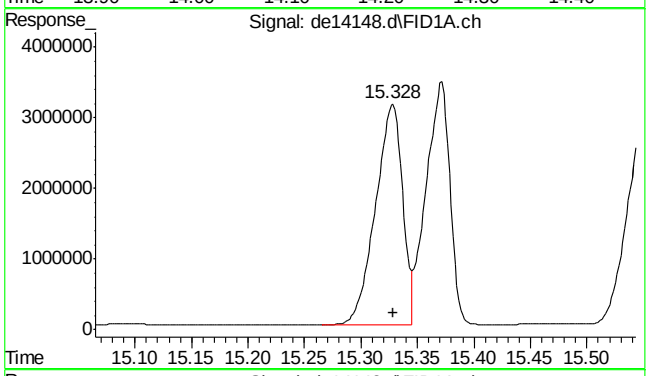
9

SGS ACCUTEST MC45678



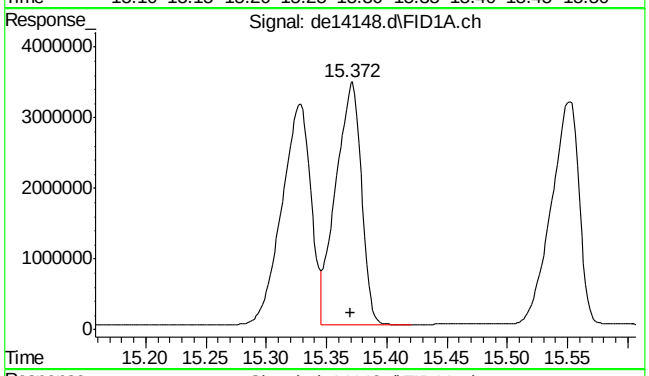
#18 benzo(a)pyrene

R.T.: 14.187 min
Delta R.T.: 0.000 min
Response: 5042236
Conc: 54.55 µg/ml



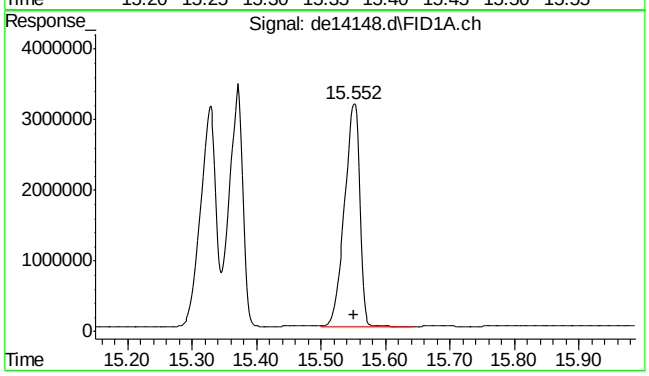
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.328 min
Delta R.T.: 0.000 min
Response: 5247544
Conc: 55.44 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.372 min
Delta R.T.: 0.002 min
Response: 5033686
Conc: 55.07 µg/ml



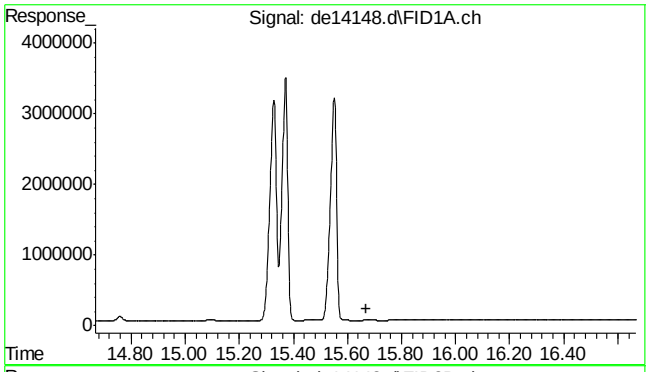
#21 benzo(ghi)perylene

R.T.: 15.552 min
Delta R.T.: 0.000 min
Response: 5098148
Conc: 55.34 µg/ml

9.5.15

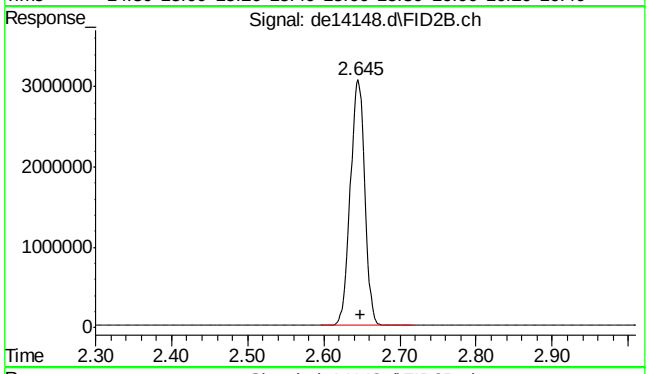
9

SGS ACCUTEST MC45678



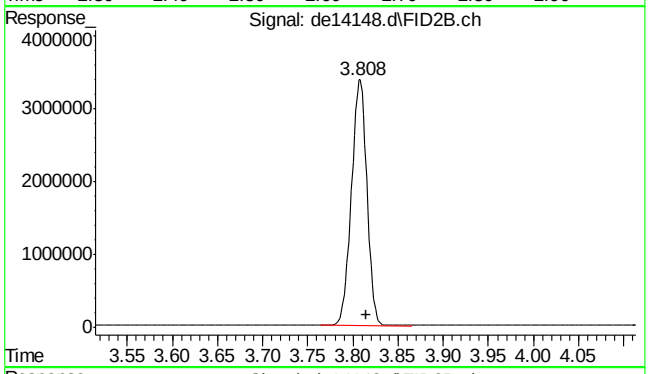
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.668 min
Response: 0
Conc: N.D.



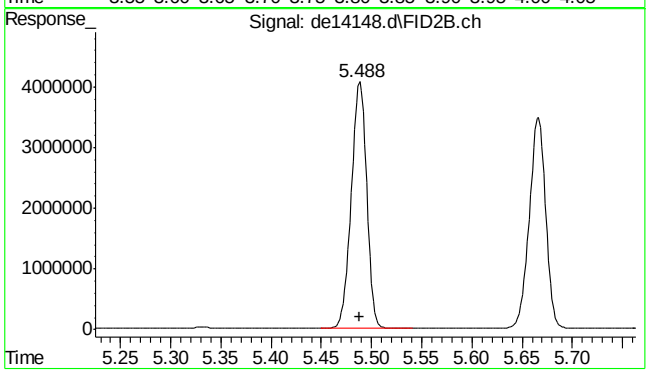
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4007534
Conc: 54.25 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4038682
Conc: 54.67 µg/ml



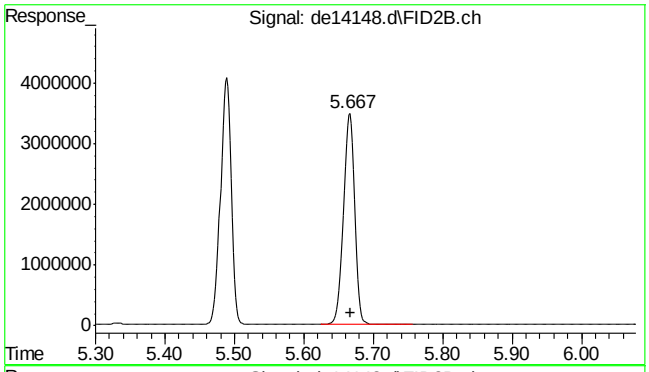
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4306168
Conc: 53.91 µg/ml

9.5.15

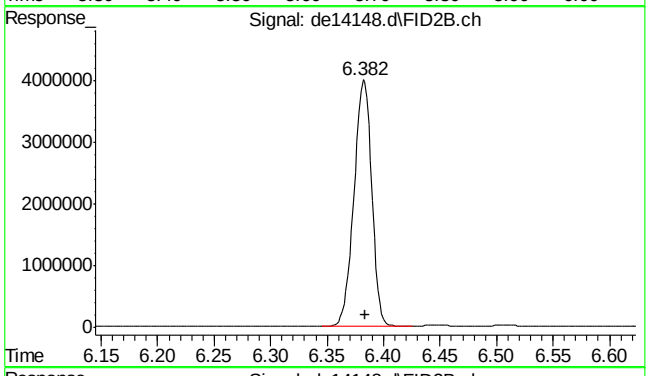
9

SGS ACCUTEST MC45678



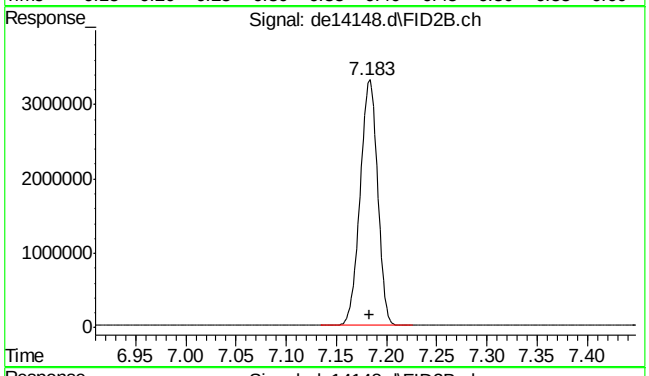
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3999737
Conc: 54.14 µg/ml



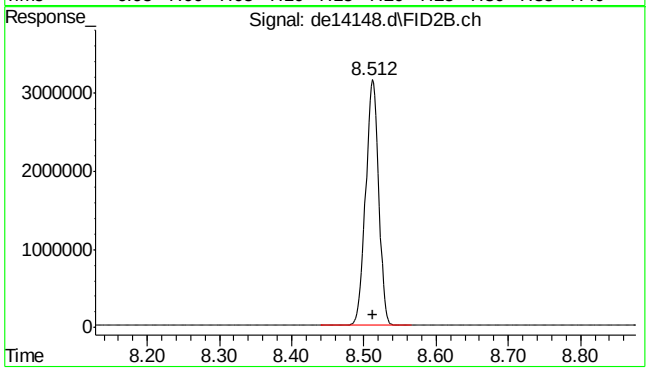
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 4295790
Conc: 53.32 µg/ml



#30 c-14

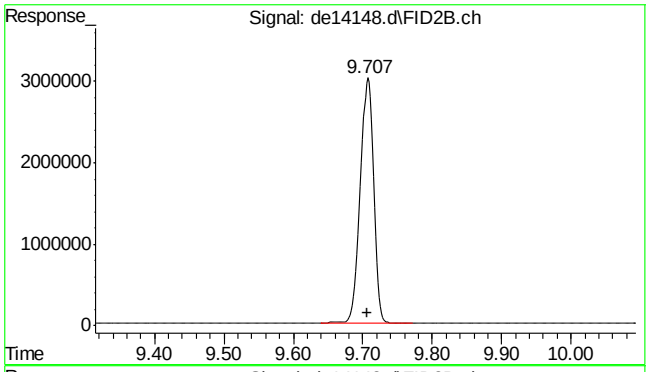
R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3977079
Conc: 53.84 µg/ml



#31 c-16

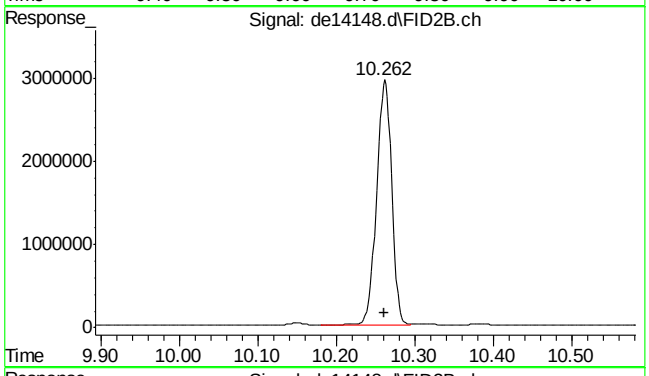
R.T.: 8.512 min
Delta R.T.: -0.002 min
Response: 3941018
Conc: 53.35 µg/ml

SGS ACCUTEST MC45678



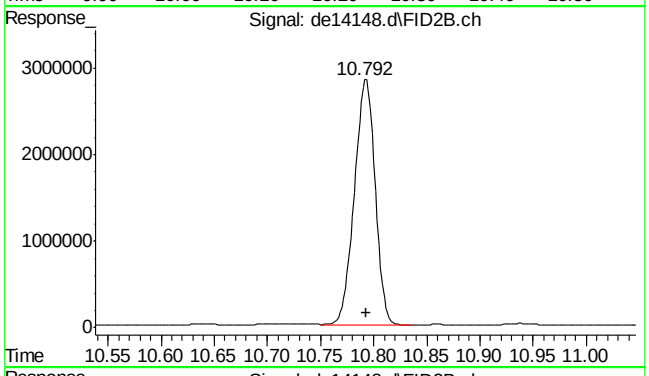
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3950450
Conc: 53.48 µg/ml



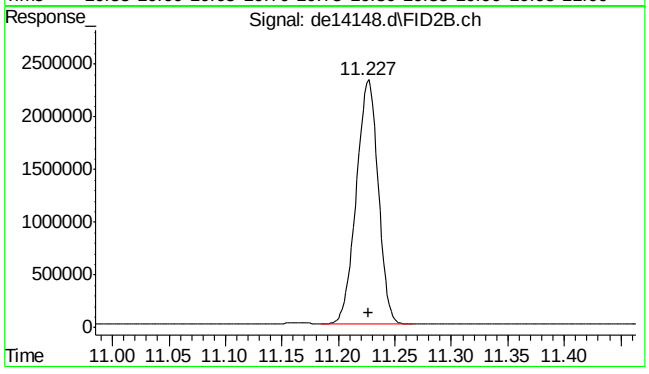
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3923485
Conc: 58.73 µg/ml



#34 c-20

R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 3853023
Conc: 57.67 µg/ml



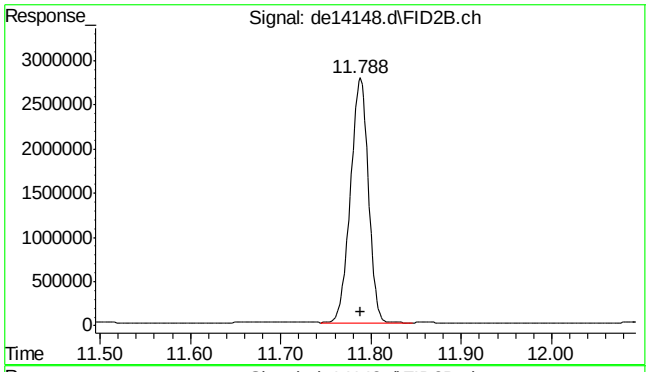
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 3113763
Conc: 55.04 µg/ml

9.5.15

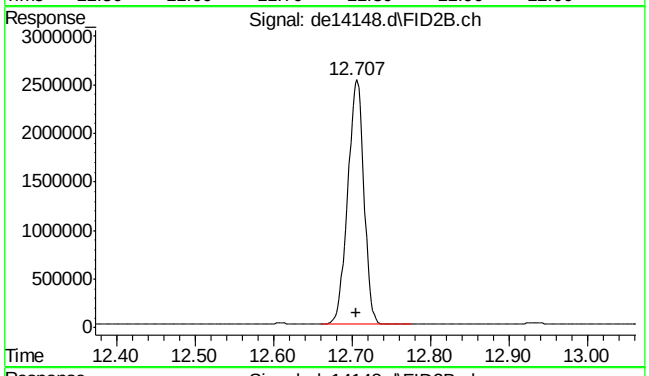
9

SGS ACCUTEST MC45678



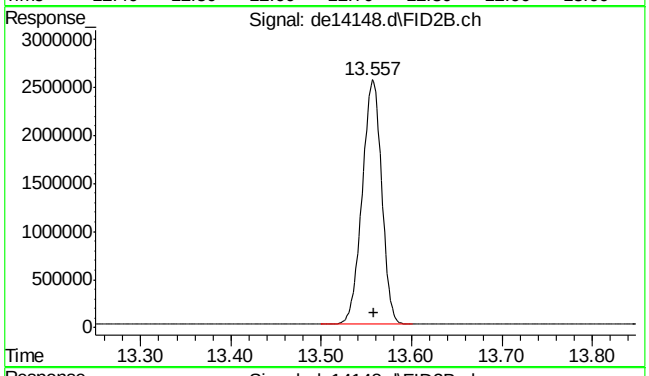
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3837703
Conc: 57.45 µg/ml



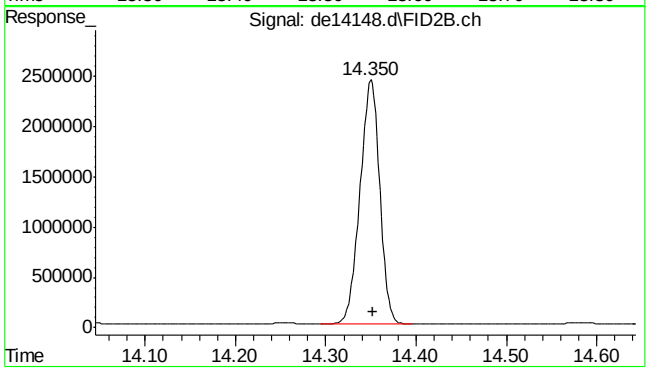
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.002 min
Response: 3584964
Conc: 53.66 µg/ml



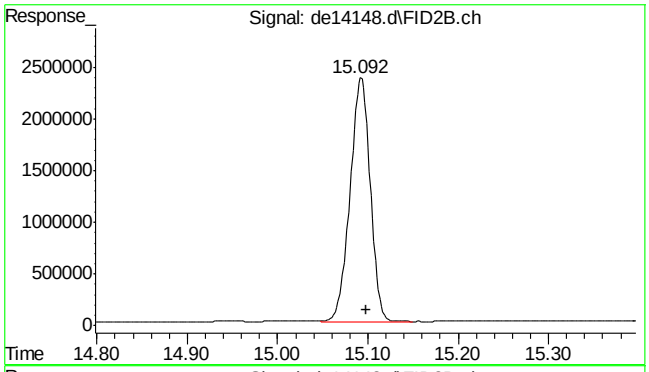
#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 3813038
Conc: 57.08 µg/ml



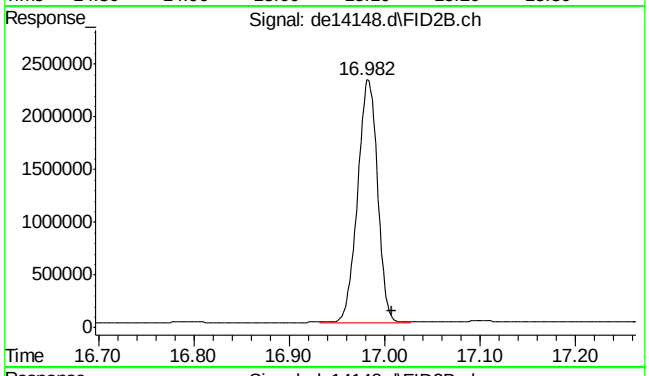
#39 c-28

R.T.: 14.350 min
Delta R.T.: -0.002 min
Response: 3682474
Conc: 55.12 µg/ml



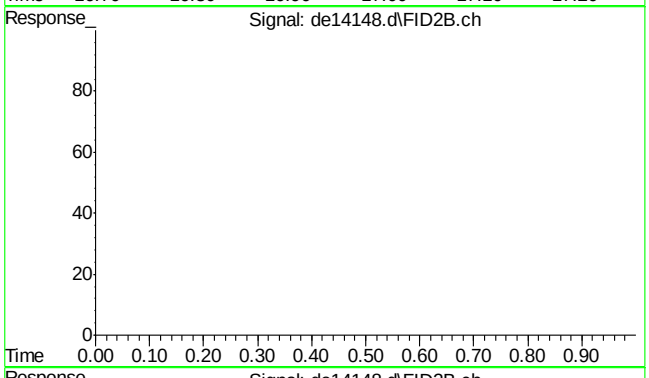
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3677443
Conc: 55.05 µg/ml



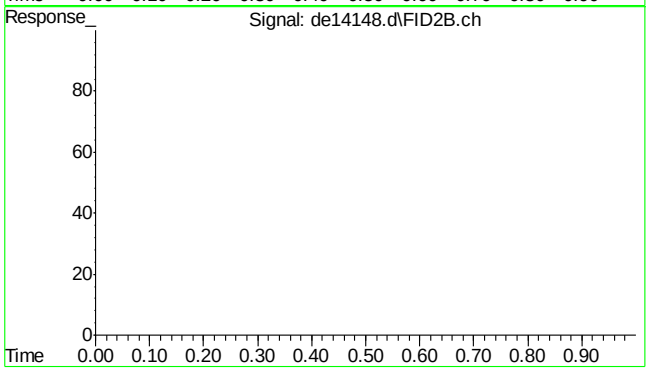
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3338500
Conc: 49.97 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.

9.5.15

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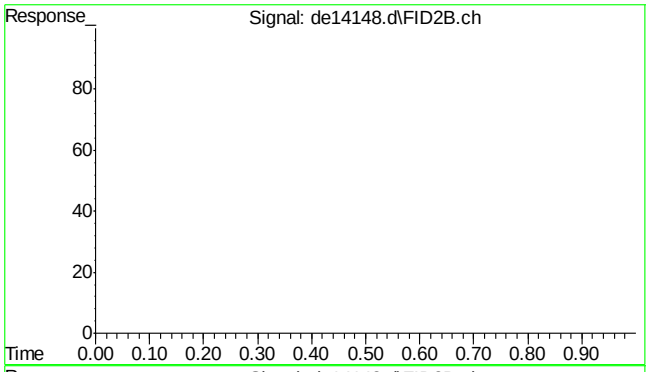
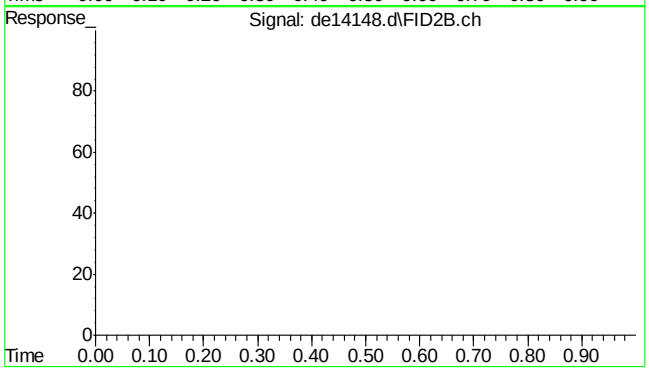
SGS ACCUTEST MC45678



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.15

9

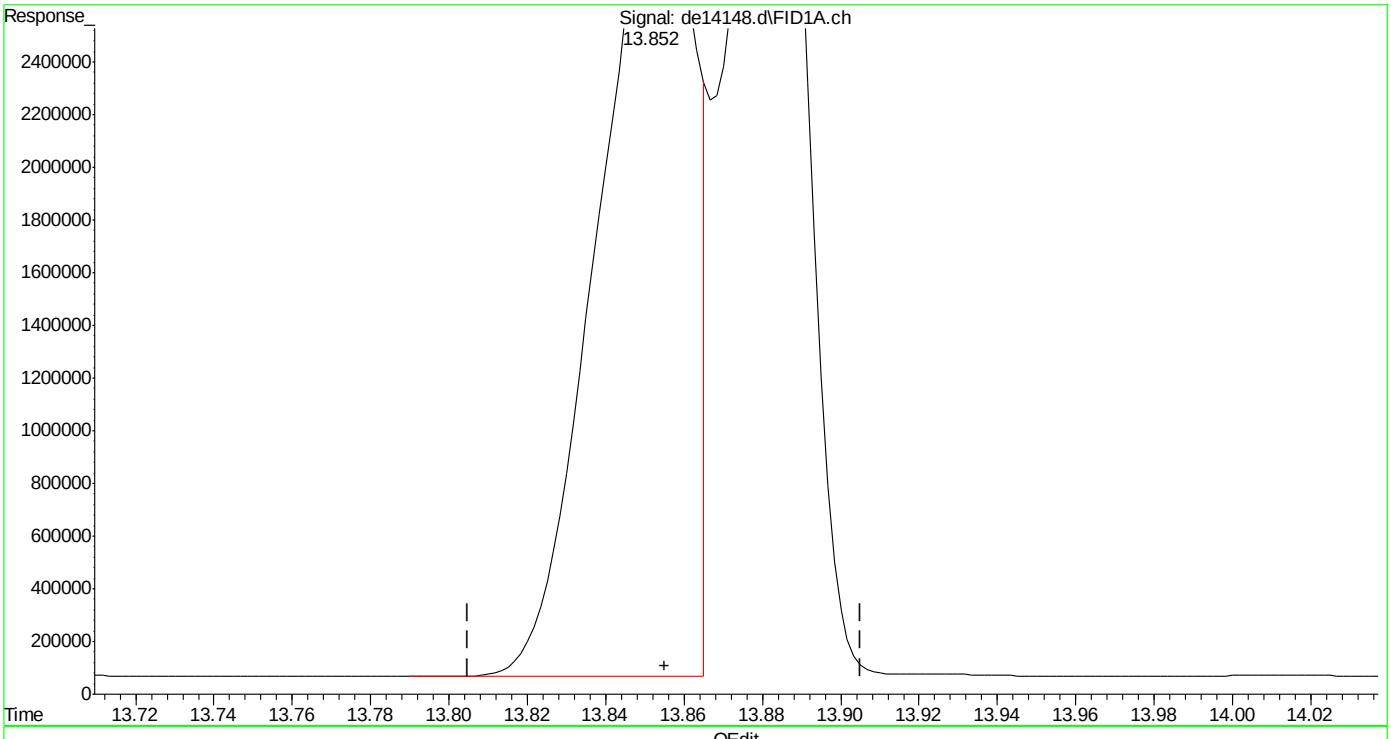
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:44 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.852min 52.423 µg/ml
response 5189972

(+) = Expected Retention Time

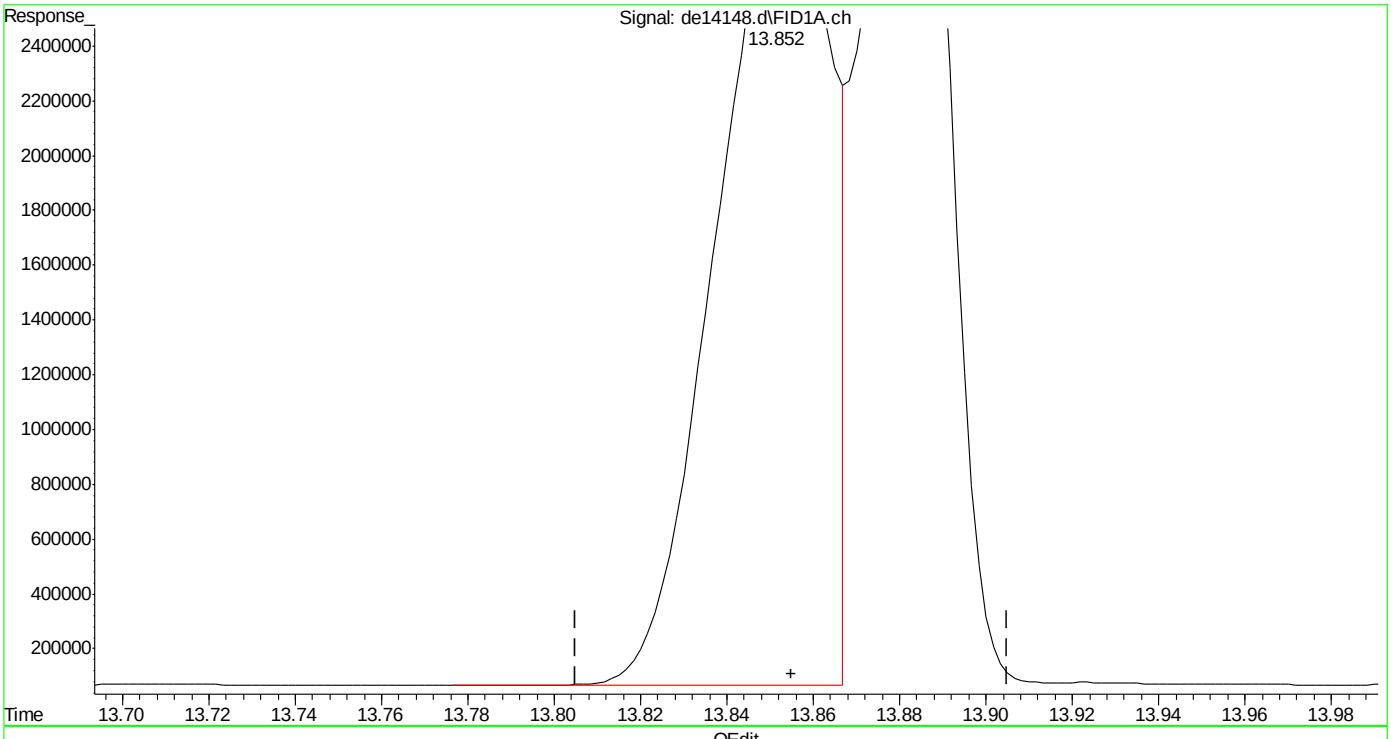
EPH160518W.M Thu May 19 08:11:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:44 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.852min 54.653 µg/ml m
response 5410745

(+) = Expected Retention Time
EPH160518W.M Thu May 19 08:11:23 2016

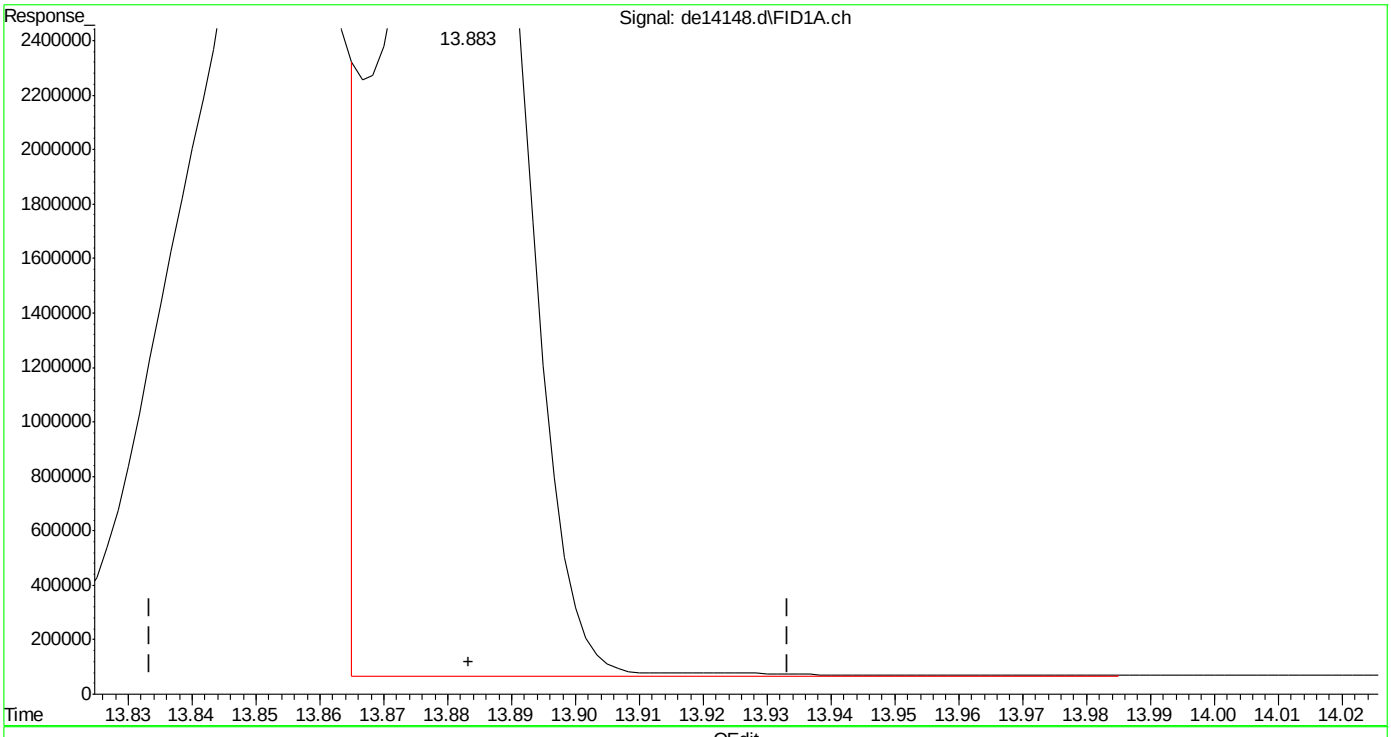
SGS ACCUTEST MC45678

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:44 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.883min 57.051 µg/ml
response 5391488

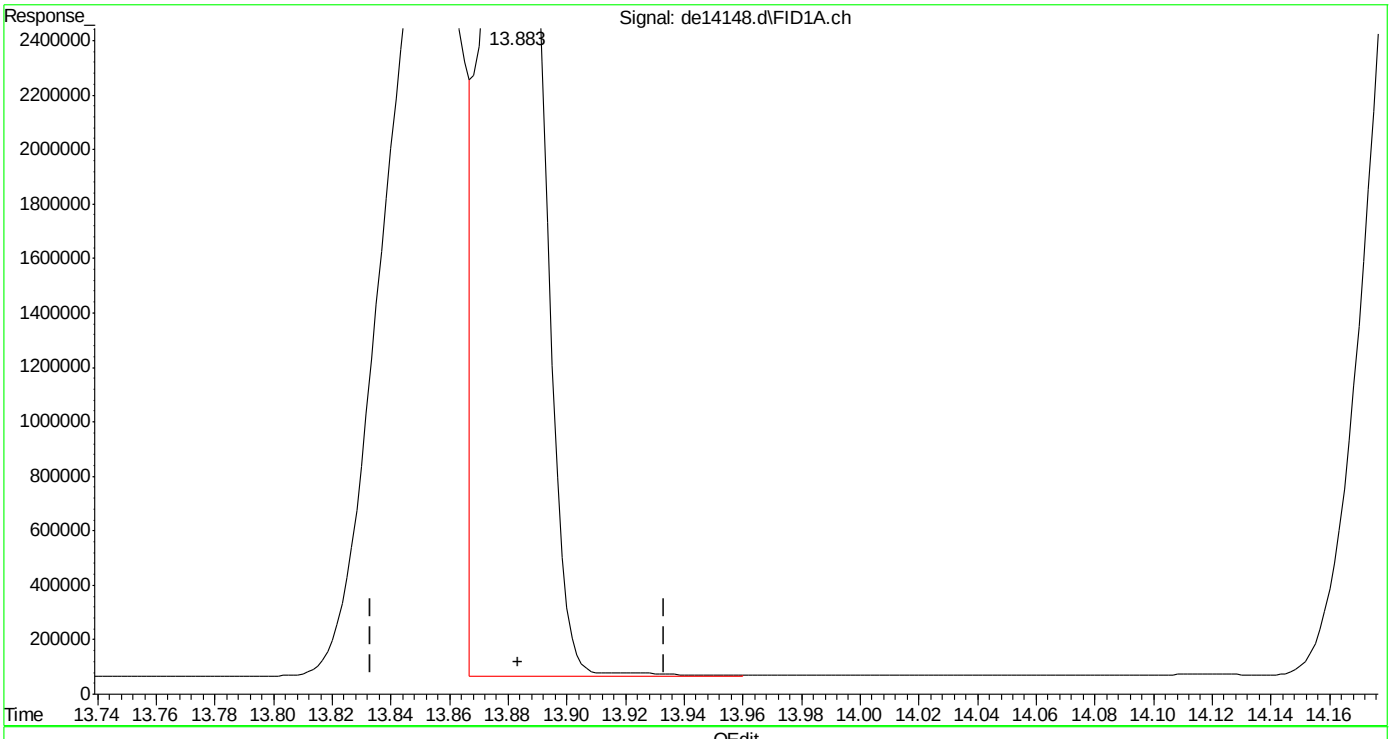
(+) = Expected Retention Time
EPH160518W.M Thu May 19 08:11:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160518EPH\
Data File : de14148.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 5:44 am
Operator : thomasa
Sample : cc735-50,gde792
Misc : op47424,gde792,11.00,,,2,,s
ALS Vial : 144 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 08:06:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160518W.M
Quant Title : BMAEPH-working method
QLast Update : Wed May 18 09:30:07 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
13.883min 54.737 µg/ml m
response 5172826

(+) = Expected Retention Time
EPH160518W.M Thu May 19 08:11:48 2016

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)~~ TAR ~~(EPH160205W.M)~~ EPH160204W.M

Instrument Run Batches: GDE ~~(735)~~ TAR 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	
TAR ~~(1+1)~~ 1/2	DE13190	Primo	N/A	EPH	N/A	N/A	AI:	ARO
1/2	91	IC735-1					G518066	G518059
3/4	92	-2					65	58
5/6	93	-5					64	57
7/8	94	-20					63	56
9/10	95	ICC735-50					62	55
11/12	96	IC735-100					61	54
13/14	97	-200					60	53
15/16	DE 13198	ICV735-50					ICV=GOOD / ARO G518052	AI: G518009

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

Review:

GC011-01
Date: 02/26/07

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de13198.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	icv735-50

Name	Amount	Response
c-9	49.68	3669865
c-10	49.84	3682081
c-12	49.07	3625160
c-14	48.80	3605226
c-16	47.90	3538485
c-18	47.31	3494684
c-19	51.26	3424371
c-20	50.76	3390870
c-22	49.93	3335369
c-24	49.04	3275936
c-26	48.67	3251556
c-28	47.96	3204302
c-30	47.06	3143578
c-36	43.91	2933493

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	72052	73872	**2.50**	**In Criteria**
C19-C36	64899	66806	**2.90**	**In Criteria**

c28/c20 Percentage: 94.50

1-chlorooctadecane	52.48	2968966
naphthalene #2	50.53	4035939
2-methylnaphthalene	49.08	3954192

BMAEPH - Aliphatic Calibration

Instrument Name GCDE
Operator thomasa

	de13197.d	de13196.d	de13195.d	de13194.d	de13193.d	de13192.d	de13191.d
	200	100	50	20	5	2	1
c-9	13093571	7080731	3541836	1587594	396890	157422	76082
c-10	13149397	7121293	3570776	1597831	401630	158649	77300
c-12	12963152	7047399	3545795	1581613	398273	157764	76748
c-14	12790598	6951061	3516096	1563771	396429	157636	77909
c-16	12583573	6811631	3450251	1537180	389860	156773	78733
c-18	12493898	6758324	3414559	1515877	383929	154646	77956
Total Mass	1200	600	300	120	30	12	6
Total Area	77074189	41770439	21039313	9383866	2367011	942890	464728
RF	64228	69617	70131	78199	78900	78574	77455
Average RF	73872						
% RSD	7.31	**<25%**					
C9 -C18	14774429	**Inserted into 200 ppm level**					
c-19	12406524	6704725	3383527	1500139	381074	151034	78108
c-20	12189358	6591283	3319667	1468089	369620	148378	75638
c-22	12115679	6550653	3288115	1451343	364434	146070	73192
c-24	11324691	6102937	3065680	1351453	339349	135579	69851
c-26	12045195	6486501	3260990	1435543	359561	142920	72850
c-28	11646376	6270223	3155644	1385739	345810	137233	69399
c-30	11593413	6235140	3152151	1377048	345750	139197	74594
c-36	10854654	5572797	2883025	1222680	300895	119416	60516
Total Mass	1600	800	400	160	40	16	8
Total Area	94175890	50514259	25508799	11192034	2806493	1119827	574148
RF	58860	63143	63772	69950	70162	69989	71769
Aerage RF	66806						
% RSD	6.73	**<25%**					
C19-C36	13361285	**Inserted into 200 ppm level**					

Operator thomasa
Instrument Na GCDE

BMAEPH - Aromatic Calibration

	de13197.d 200	de13196.d 100	de13195.d 50	de13194.d 20	de13193.d 5	de13192.d 2	de13191.d 1
naphthalene	19450620	10142634	5345223	2162719	522941	205575	100885
2-methylnaphthalene	19131536	9997868	5287222	2136209	518620	205018	102950
acenaphthylene	18686177	9776029	5189849	2106441	513706	202426	99947
acenaphthene	19311298	10095451	5354326	2170607	524765	207471	101818
fluorene	18917157	9889893	5242546	2130652	515691	204542	100695
phenanthrene	18899419	9875264	5223164	2129143	514273	207031	101800
anthracene	17945874	9378790	4970359	2038508	492058	199105	96242
fluoranthene	18457513	9629565	5079973	2077039	501463	203479	103521
pyrene	18932497	9876553	5123787	2089957	505877	206224	105548
benzo(a)anthracene	17872955	9324427	4883350	2002764	484563	197822	100487
chrysene	18069681	9386529	4951740	2022589	488834	197927	100279
benzo(B)fluoranthene	18893122	9460698	4980192	2094779	499942	197572	100827
benzo(k)fluoranthene	16859064	9345183	4922694	1953249	474469	193855	95833
benzo(a)pyrene	17319408	8964794	4724847	1927552	464216	184685	94743
indeno(1,2,3-cd)pyrene	18670540	9240715	4854725	1948257	472235	186820	94483
dibenzo(ah)anthracene	16610466	8726656	4685536	1933263	466623	185980	92785
benzo(ghi)perylene	17523714	8869696	4705124	1916075	463653	184915	93453
Total Mass (Targets)	3400	1700	850	340	85	34	17
Total Area (Targets)	311551041	161980745	85524657	34839803	8423929	3370447	1686296
RF	91633	95283	100617	102470	99105	99131	99194
Average RF	98205						

% RSD **3.41** **<25%**
C11-C22 Aromatics **19640926** **Insert into 200ppm level**

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.6.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
651806 7	Air CCV	50 ug/ml
L055	IAD CCV	50 ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160506GH.S
Quantitation Methods: EPH160506W.m

Instrument Run Batches: GDE 785

Data Acquisition Methods: EPH DUAL W Inj. Vol: 1 ul
Inj. Vol:

Date of ICAL: 2-11-16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE14022	CC735-50	N/A	MA EPH	N/A	N/A	ok
1/2	23	OP47333-BS	OP47333		W		
3/4	24	-BSD					
5/6	25	-MB					
7/8	26	mc45678-1a					
9/10	27	-2a					
141/142	28	CC735-50	N/A		N/A		ok
11/12	29	OP47288-BS	OP47288		S		
13/14	30	-BSD					
15/16	31	-MB					
17/18	32	mc45453-21					
141/142	DE14033	CC735-50	N/A		N/A		ok

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC014-01
Date: 9/15/10

Review:

2

9.6.2

9

SGS ACCUTEST MC45678

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14022.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde785

Name	Amount	Response
c-9	54.58	4031919
c-10	54.96	4059652
c-12	54.18	4002639
c-14	53.76	3971015
c-16	53.37	3942664
c-18	53.67	3964639
c-19	59.11	3949202
c-20	57.89	3867100
c-22	57.88	3867044
c-24	54.27	3625269
c-26	57.97	3872678
c-28	56.05	3744614
c-30	56.15	3751179
c-36	46.50	3106524

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	79908	73872	**7.85**	**In Criteria**
C19-C36	74459	66806	**10.83**	**In Criteria**
c28/c20 Percentage:			96.83	

1-chlorooctadecane	55.24	3125360
naphthalene #2	54.23	4331363
2-methylnaphthalene	53.35	4298151

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14028.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde785

Name	Amount	Response		Continuing Avg. RF	Initial Avg. RF	%Diff	
c-9	57.82	4271293					
c-10	58.34	4309948					
c-12	57.60	4255152	**C9-C18**	84259	73872	**13.14**	**In Criteria**
c-14	56.84	4198605					
c-16	55.77	4120097					
c-18	55.81	4122499					
c-19	61.38	4100388	**C19-C36**	76792	66806	**13.91**	**In Criteria**
c-20	60.30	4028341					
c-22	59.97	4006539					
c-24	56.15	3750881		c28/c20 Percentage:		95.50	
c-26	59.68	3987049					
c-28	57.58	3847007					
c-30	57.33	3830270					
c-36	47.40	3166489					

1-chlorooctadecane	57.67	3262823
naphthalene #2	57.47	4590426
2-methylnaphthalene	56.66	4564712

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14033.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50, gde785

Name	Amount	Response
c-9	59.05	4362155
c-10	59.85	4421102
c-12	58.32	4308189
c-14	57.28	4231554
c-16	55.72	4115898
c-18	54.85	4051915
c-19	61.02	4076775
c-20	58.77	3926476
c-22	58.39	3900629
c-24	54.98	3673177
c-26	58.09	3880672
c-28	55.69	3720567
c-30	55.84	3730334
c-36	46.18	3084960

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	84969	73872	**13.97**	**In Criteria**
C19-C36	74984	66806	**11.53**	**In Criteria**
c28/c20 Percentage:			94.76	

1-chlorooctadecane	56.61	3202553
naphthalene #2	58.19	4648050
2-methylnaphthalene	57.41	4625107

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47333-bs

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		13.17	50	52.67	
2-methylnaphthalene		14.34	50	57.35	
2-fluorobiphenyl	s	16.68	40	83.40	
acenaphthylene		15.59	50	62.36	
2-bromonaphthalene	s	14.83	40	74.17	
acenaphthene		17.56	50	70.23	
fluorene		16.68	50	66.74	
phenanthrene		16.21	50	64.84	
anthracene		20.90	50	83.59	
o-terphenyl	s	15.94	40	79.72	
fluoranthene		18.94	50	75.78	
pyrene		18.83	50	75.34	
benzo(a)anthracene		19.88	50	79.50	
chrysene		19.92	50	79.66	
benzo(B)fluoranthene		19.43	50	77.72	
benzo(k)fluoranthene		20.46	50	81.86	
benzo(a)pyrene		20.79	50	83.17	
indeno(1,2,3-cd)pyrene		20.53	50	82.12	
dibenzo(ah)anthracene		20.69	50	82.76	
benzo(ghi)perylene		20.90	50	83.60	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		9.31	50	37.23	
c-10		11.86	50	47.45	
c-12		15.28	50	61.13	
c-14		17.00	50	68.02	
c-16		17.65	50	70.59	
c-18		18.78	50	75.13	
c-19		21.06	50	84.24	
c-20		21.73	50	86.93	
1-chlorooctadecane	s	14.92	40	74.61	
c-22		22.31	50	89.22	
c-24		22.33	50	89.31	
c-26		21.93	50	87.74	
c-28		21.54	50	86.16	
c-30		20.59	50	82.37	
c-36		13.55	50	54.22	

Recovery C9-C18
59.93

Recovery C19-C36
82.52

naphthalene #2	0.06	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.43	0.42

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47333-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		13.00	50	52.00	
2-methylnaphthalene		14.50	50	57.99	
2-fluorobiphenyl	s	17.51	40	87.54	
acenaphthylene		16.01	50	64.04	
2-bromonaphthalene	s	16.41	40	82.05	
acenaphthene		17.95	50	71.80	
fluorene		17.43	50	69.73	
phenanthrene		18.25	50	73.02	
anthracene		20.94	50	83.78	
o-terphenyl	s	17.28	40	86.41	
fluoranthene		20.65	50	82.61	
pyrene		20.57	50	82.28	
benzo(a)anthracene		21.59	50	86.35	
chrysene		21.61	50	86.44	
benzo(B)fluoranthene		20.48	50	81.92	
benzo(k)fluoranthene		23.03	50	92.10	
benzo(a)pyrene		22.57	50	90.26	
indeno(1,2,3-cd)pyrene		22.36	50	89.44	
dibenzo(ah)anthracene		22.47	50	89.89	
benzo(ghi)perylene		22.77	50	91.07	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		8.78	50	35.11	
c-10		11.50	50	46.01	
c-12		15.88	50	63.52	
c-14		18.31	50	73.24	
c-16		19.46	50	77.82	
c-18		21.43	50	85.70	
c-19		23.89	50	95.57	
c-20		24.39	50	97.57	
1-chlorooctadecane	s	17.75	40	88.73	
c-22		24.84	50	99.37	
c-24		24.64	50	98.58	
c-26		24.16	50	96.64	
c-28		23.96	50	95.83	
c-30		24.65	50	98.61	
c-36		25.52	50	102.09	

Recovery C9-C18
63.57

Recovery C19-C36
98.03

naphthalene #2	0.05	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.41	0.36

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47288-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.41	50	61.65	
2-methylnaphthalene		16.21	50	64.85	
2-fluorobiphenyl	s	17.13	40	85.66	
acenaphthylene		17.80	50	71.19	
2-bromonaphthalene	s	15.89	40	79.46	
acenaphthene		19.60	50	78.40	
fluorene		19.27	50	77.07	
phenanthrene		20.15	50	80.60	
anthracene		24.21	50	96.86	
o-terphenyl	s	18.06	40	90.30	
fluoranthene		23.68	50	94.72	
pyrene		23.68	50	94.74	
benzo(a)anthracene		24.90	50	99.61	
chrysene		24.57	50	98.28	
benzo(B)fluoranthene		24.87	50	99.48	
benzo(k)fluoranthene		24.84	50	99.36	
benzo(a)pyrene		25.90	50	103.61	
indeno(1,2,3-cd)pyrene		25.67	50	102.68	
dibenzo(ah)anthracene		25.41	50	101.64	
benzo(ghi)perylene		26.06	50	104.22	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.53	50	62.13	
c-10		17.95	50	71.78	
c-12		19.39	50	77.58	
c-14		20.47	50	81.86	
c-16		21.75	50	86.98	
c-18		24.16	50	96.63	
c-19		27.24	50	108.94	
c-20		27.61	50	110.45	
1-chlorooctadecane	s	16.74	40	83.68	
c-22		27.90	50	111.58	
c-24		27.82	50	111.29	
c-26		26.99	50	107.96	
c-28		26.63	50	106.52	
c-30		26.18	50	104.74	
c-36		22.34	50	89.35	

Recovery C9-C18
79.49

Recovery C19-C36
106.35

naphthalene #2	0.05	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.32	0.34

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47288-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		19.16	50	76.63	
2-methylnaphthalene		19.78	50	79.13	
2-fluorobiphenyl	s	17.53	40	87.63	
acenaphthylene		21.21	50	84.85	
2-bromonaphthalene	s	16.30	40	81.51	
acenaphthene		23.25	50	93.01	
fluorene		22.42	50	89.69	
phenanthrene		22.49	50	89.98	
anthracene		26.17	50	104.68	
o-terphenyl	s	19.22	40	96.12	
fluoranthene		25.52	50	102.06	
pyrene		25.27	50	101.09	
benzo(a)anthracene		26.44	50	105.77	
chrysene		26.51	50	106.04	
benzo(B)fluoranthene		25.65	50	102.61	
benzo(k)fluoranthene		27.61	50	110.44	
benzo(a)pyrene		27.49	50	109.98	
indeno(1,2,3-cd)pyrene		26.80	50	107.19	
dibenzo(ah)anthracene		27.80	50	111.21	
benzo(ghi)perylene		27.83	50	111.33	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		18.49	50	73.95	
c-10		20.85	50	83.38	
c-12		22.03	50	88.13	
c-14		23.03	50	92.14	
c-16		23.79	50	95.18	
c-18		25.09	50	100.34	
c-19		27.88	50	111.53	
c-20		27.92	50	111.70	
1-chlorooctadecane	s	15.41	40	77.03	
c-22		28.05	50	112.21	
c-24		27.75	50	111.00	
c-26		27.20	50	108.80	
c-28		26.87	50	107.49	
c-30		26.24	50	104.96	
c-36		20.26	50	81.04	

Recovery C9-C18
88.85

Recovery C19-C36
106.09

naphthalene #2	0.06	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.29	0.28

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.18.16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc
05 [illegible]	Air CCV	50g/ml
L 055	Air CCV	50g/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160518.S
Quantitation Methods: EPH160518W.M
Instrument Run Batches: GDE 792
Data Acquisition Methods: EPH DUAL W Inj. Vol: 1ml
Inj. Vol:

Date of ICAL: 2-4-16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE14102	CDrinse	N/A	MA EPH	N/A	N/A	
141/142	03	CC735-50	↓	↓	↓	↓	vials switched / ok
141/142	04	CC735-50	↓	↓	↓	↓	ok
1/2	05	OP47474-BS	OP47474	↓	W	↓	
3/4	06	↓ -BSD	↓	↓	↓	↓	
5/6	07	OP47484-BS	OP47484	↓	S	↓	
7/8	08	↓ -BSD	↓	↓	↓	↓	
9/10	09	↓ -MB	↓	↓	↓	↓	
11/12	10	OP47474-MB	OP47474	↓	W	↓	
13/14	11	MC45874-1	OP47484	↓	S	↓	
15/16	12	↓ -2	↓	↓	↓	↓	
17/18	13	↓ -3	↓	↓	↓	↓	
19/20	14	MC45857-1A	OP47474	↓	W	↓	
141/142	15	CC735-50	N/A	↓	N/A	↓	ok
21/22	16	MC45857-4A	OP47474	↓	W	↓	
23/24	17	↓ -5A	↓	↓	↓	↓	
25/26	18	MC45678-3	OP47484	↓	S	↓	
27/28	19	MC45694-1	↓	↓	↓	↓	
29/30	20	↓ -2	↓	↓	↓	↓	
31/32	21	↓ -3	↓	↓	↓	↓	
33/34	22	↓ -4	↓	↓	↓	↓	
35/36	23	MC45711-1	OP47474	↓	W	↓	
37/38	24	↓ -2	↓	↓	↓	↓	
39/40	25	↓ -3	↓	↓	↓	↓	
141/142	26	CC735-50	N/A	↓	N/A	↓	ok
41/42	27	MC45711-4	OP47474	↓	W	↓	
43/44	28	↓ -5	↓	↓	↓	↓	

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:

9

SGS ACCUTEST MC45678

SGS Accutest, Inc.

Page 2 of 3

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.18.16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc
	See	
	page	
	1	

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File:
Quantitation Methods:
Instrument Run Batches: See page 1
Data Acquisition Methods: Inj. Vol:
Inj. Vol:

Date of ICAL: ICAL Verified Sample positions verified against sequence:

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
45/46	DE141~~03~~29	mc45711-6	OP47474	BA EPH	W	N/A	
47/48	~~03~~ 30	-7					
49/50	~~04~~ 31	-8					
51/52	~~05~~ 32	-9					
53/54	~~06~~ 33	-10					
55/56	~~07~~ 34	mc45903-1	OP47484		S		
57/58	~~08~~ 35	-2					
59/60	~~09~~ 36	-3					
143/144	~~10~~ 37	cc735-50	N/A		N/A		ok
61/62	~~11~~ 38	mc45903-4	OP47484		S		
63/64	~~12~~ 39	-5					
65/66	~~13~~ 40	-6					
67/68	~~14~~ 41	mc45752-1					
69/70	~~15~~ 42	-2					
71/72	~~16~~ 43	mc45753-1					
73/74	~~17~~ 44	-2					
75/76	~~18~~ 45	-3					
77/78	~~19~~ 46	OP47484-MS					
79/80	~~20~~ 47	-MSD					
143/144	~~21~~ 48	cc735-50	N/A		N/A		ok
81/82	~~22~~ 49	OP47530-BS	OP47530		S		
83/84	~~23~~ 50	-BSD					
85/86	~~24~~ 51	-MB					
87/88	~~25~~ 52	mc45941-1					
89/90	~~26~~ 53	-2					RRO 10X
91/92	~~27~~ 54	-3					RRO 5X
93/94	~~28~~ 55	mc45724-4 (5)					

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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SGS Accutest, Inc.

Page 3 of 3

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.18.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
	see page 1	

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File:
Quantitation Methods:
Instrument Run Batches: see page 1
Data Acquisition Methods: Inj. Vol:
Inj. Vol:

Date of ICAL: ICAL Verified Sample positions verified against sequence:

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
95/96	DE14156	MC45724-5	OP47530	MA EPH	S	N/A	
97/98	57	OP45730-MS	↓	↓	↓	↓	
99/100	58	↓ -MSD	↓	↓	↓	↓	
143/144	59	CC735-SB	N/A	↓	N/A	↓	ok
101/102	60	MC45941-2	OP47570	↓	S	1:10	
103/104	61	↓ -3	↓	↓	↓	1:5	
143/144	DE14162	CC735-SD	N/A	↓	N/A	N/A	ok

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: ~~(Acet)~~ DCM Lot#: ~~(Acet)~~ 162342

GC014-01
Date: 9/15/10

Review:

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9.6.3

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SGS ACCUTEST MC45678

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14104.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde792

Name	Amount	Response
c-9	57.66	4259555
c-10	58.24	4302647
c-12	57.96	4281358
c-14	57.85	4273386
c-16	57.70	4262066
c-18	58.02	4286305
c-19	63.72	4257083
c-20	62.52	4176650
c-22	62.18	4154291
c-24	58.13	3883740
c-26	61.78	4126988
c-28	59.51	3975914
c-30	59.35	3964659
c-36	51.38	3432297
1-chlorooctadecane	59.65	3374430
naphthalene #2	57.60	4600529
2-methylnaphthalene	57.12	4601796

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	85551	73872	**14.65**	**In Criteria**
C19-C36	79929	66806	**17.89**	**In Criteria**
c28/c20 Percentage:			95.19	

9.6.3

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SGS ACCUTEST MC45678

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14115.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde792

Name	Amount	Response
c-9	54.16	4000760
c-10	54.67	4038635
c-12	54.17	4001673
c-14	53.71	3967509
c-16	53.11	3922983
c-18	52.94	3910636
c-19	57.97	3872967
c-20	56.78	3793134
c-22	56.12	3749208
c-24	52.14	3482985
c-26	55.09	3680147
c-28	52.88	3533056
c-30	52.58	3512451
c-36	46.77	3124612

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	79474	73872	**7.31**	**In Criteria**
C19-C36	71871	66806	**7.30**	**In Criteria**

c28/c20 Percentage: 93.14

1-chlorooctadecane	54.09	3060163
naphthalene #2	53.86	4302131
2-methylnaphthalene	53.24	4289263

9.6.3

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SGS ACCUTEST MC45678

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14126.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde792

Name	Amount	Response
c-9	52.79	3899563
c-10	53.24	3933196
c-12	52.88	3906710
c-14	52.68	3891746
c-16	52.39	3870122
c-18	52.62	3887502
c-19	57.83	3863603
c-20	56.84	3797064
c-22	56.60	3781508
c-24	53.04	3543148
c-26	56.49	3774040
c-28	54.58	3646575
c-30	54.51	3641643
c-36	49.43	3302036

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	77963	73872	**5.39**	**In Criteria**
C19-C36	73374	66806	**9.37**	**In Criteria**

c28/c20 Percentage: 96.04

1-chlorooctadecane	54.32	3073019
naphthalene #2	52.56	4198388
2-methylnaphthalene	52.09	4196363

9.6.3

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SGS ACCUTEST MC45678

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14137.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde792

Name	Amount	Response
c-9	54.92	4056702
c-10	55.21	4078391
c-12	54.62	4034724
c-14	54.17	4001998
c-16	53.65	3963430
c-18	53.62	3961362
c-19	58.83	3930032
c-20	57.70	3854715
c-22	57.32	3829591
c-24	53.52	3575271
c-26	56.92	3802525
c-28	54.88	3666532
c-30	54.65	3650785
c-36	49.18	3285554

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	80322	73872	**8.37**	**In Criteria**
C19-C36	73988	66806	**10.20**	**In Criteria**

c28/c20 Percentage: 95.12

1-chlorooctadecane	55.13	3118726
naphthalene #2	54.43	4347523
2-methylnaphthalene	53.74	4329776

9.6.3

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SGS ACCUTEST MC45678

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14148.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde792

Name	Amount	Response
c-9	54.25	4007534
c-10	54.67	4038682
c-12	54.14	3999737
c-14	53.84	3977079
c-16	53.35	3941018
c-18	53.48	3950450
c-19	58.73	3923485
c-20	57.67	3853023
c-22	57.45	3837703
c-24	53.66	3584964
c-26	57.08	3813038
c-28	55.12	3682474
c-30	55.05	3677443
c-36	49.97	3338500
1-chlorooctadecane	55.04	3113763
naphthalene #2	53.91	4306168
2-methylnaphthalene	53.32	4295790

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	79715	73872	**7.61**	**In Criteria**
C19-C36	74277	66806	**10.59**	**In Criteria**

c28/c20 Percentage: 95.57

9.6.3

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14159.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde792

Name	Amount	Response
c-9	54.22	4005540
c-10	54.75	4044315
c-12	54.17	4001536
c-14	53.70	3966806
c-16	53.25	3933775
c-18	53.48	3951030
c-19	58.77	3926188
c-20	57.75	3858355
c-22	57.59	3847705
c-24	53.99	3606652
c-26	57.52	3842843
c-28	55.57	3712162
c-30	55.53	3709910
c-36	50.78	3392540

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	79677	73872	**7.56**	**In Criteria**
C19-C36	74741	66806	**11.21**	**In Criteria**

c28/c20 Percentage: 96.21

1-chlorooctadecane	55.13	3119032
naphthalene #2	54.04	4316000
2-methylnaphthalene	53.35	4298086

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14162.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50,gde792

Name	Amount	Response
c-9	58.53	4323667
c-10	59.02	4359916
c-12	58.17	4297429
c-14	57.36	4237659
c-16	56.51	4174471
c-18	56.43	4168552
c-19	61.82	4129867
c-20	60.59	4047775
c-22	59.98	4007045
c-24	55.89	3733514
c-26	59.21	3955725
c-28	57.01	3808454
c-30	56.71	3788572
c-36	50.85	3397175

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	85206	73872	**14.25**	**In Criteria**
C19-C36	77170	66806	**14.40**	**In Criteria**

c28/c20 Percentage: 94.09

1-chlorooctadecane	57.80	3269988
naphthalene #2	58.05	4636834
2-methylnaphthalene	57.27	4614359

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47474-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.96	50	63.86	
2-methylnaphthalene		15.98	50	63.93	
2-fluorobiphenyl	s	18.00	40	89.99	
acenaphthylene		16.30	50	65.21	
2-bromonaphthalene	s	17.13	40	85.65	
acenaphthene		18.19	50	72.77	
fluorene		17.39	50	69.57	
phenanthrene		18.39	50	73.55	
anthracene		21.33	50	85.31	
o-terphenyl	s	17.55	40	87.77	
fluoranthene		21.12	50	84.50	
pyrene		21.10	50	84.38	
benzo(a)anthracene		22.04	50	88.16	
chrysene		22.17	50	88.70	
benzo(B)fluoranthene		21.59	50	86.35	
benzo(k)fluoranthene		22.23	50	88.92	
benzo(a)pyrene		22.38	50	89.51	
indeno(1,2,3-cd)pyrene		21.73	50	86.90	
dibenzo(ah)anthracene		22.37	50	89.47	
benzo(ghi)perylene		22.45	50	89.81	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		12.21	50	48.85	
c-10		14.66	50	58.63	
c-12		15.75	50	63.02	
c-14		15.85	50	63.41	
c-16		16.74	50	66.96	
c-18		18.88	50	75.51	
c-19		21.51	50	86.04	
c-20		21.83	50	87.31	
1-chlorooctadecane	s	15.19	40	75.97	
c-22		22.14	50	88.55	
c-24		22.01	50	88.06	
c-26		21.61	50	86.44	
c-28		21.30	50	85.21	
c-30		21.17	50	84.70	
c-36		17.43	50	69.71	

Recovery C9-C18
62.73

Recovery C19-C36
84.50

naphthalene #2	0.08	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.08	0.52	0.50

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47474-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		13.53	50	54.12	
2-methylnaphthalene		14.28	50	57.12	
2-fluorobiphenyl	s	17.39	40	86.95	
acenaphthylene		15.10	50	60.39	
2-bromonaphthalene	s	16.32	40	81.59	
acenaphthene		17.18	50	68.71	
fluorene		16.70	50	66.81	
phenanthrene		18.31	50	73.25	
anthracene		21.05	50	84.20	
o-terphenyl	s	16.96	40	84.79	
fluoranthene		21.62	50	86.49	
pyrene		21.68	50	86.70	
benzo(a)anthracene		22.70	50	90.80	
chrysene		22.98	50	91.94	
benzo(B)fluoranthene		22.91	50	91.65	
benzo(k)fluoranthene		22.71	50	90.85	
benzo(a)pyrene		23.38	50	93.51	
indeno(1,2,3-cd)pyrene		23.01	50	92.06	
dibenzo(ah)anthracene		23.17	50	92.69	
benzo(ghi)perylene		23.57	50	94.30	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		10.00	50	40.00	
c-10		11.92	50	47.69	
c-12		13.56	50	54.23	
c-14		14.23	50	56.90	
c-16		15.59	50	62.37	
c-18		18.22	50	72.88	
c-19		21.17	50	84.69	
c-20		21.72	50	86.89	
1-chlorooctadecane	s	15.30	40	76.52	
c-22		22.23	50	88.91	
c-24		22.14	50	88.57	
c-26		21.72	50	86.89	
c-28		21.47	50	85.90	
c-30		21.33	50	85.30	
c-36		17.97	50	71.88	

Recovery C9-C18
55.68

Recovery C19-C36
84.88

naphthalene #2	0.06	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.07	0.48	0.47

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47484-bs

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.41	50	57.63	
2-methylnaphthalene		14.70	50	58.82	
2-fluorobiphenyl	s	16.14	40	80.69	
acenaphthylene		15.34	50	61.35	
2-bromonaphthalene	s	15.37	40	76.85	
acenaphthene		16.81	50	67.24	
fluorene		16.37	50	65.49	
phenanthrene		17.00	50	68.02	
anthracene		19.16	50	76.65	
o-terphenyl	s	15.78	40	78.91	
fluoranthene		19.02	50	76.08	
pyrene		19.11	50	76.42	
benzo(a)anthracene		19.90	50	79.60	
chrysene		20.08	50	80.32	
benzo(B)fluoranthene		20.40	50	81.58	
benzo(k)fluoranthene		19.67	50	78.66	
benzo(a)pyrene		20.66	50	82.62	
indeno(1,2,3-cd)pyrene		20.51	50	82.05	
dibenzo(ah)anthracene		20.44	50	81.76	
benzo(ghi)perylene		20.90	50	83.59	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		13.77	50	55.08	
c-10		15.64	50	62.55	
c-12		16.60	50	66.41	
c-14		16.78	50	67.11	
c-16		17.50	50	69.99	
c-18		18.83	50	75.33	
c-19		20.74	50	82.97	
c-20		21.17	50	84.68	
1-chlorooctadecane	s	12.97	40	64.85	
c-22		21.38	50	85.51	
c-24		21.20	50	84.79	
c-26		20.68	50	82.73	
c-28		20.14	50	80.57	
c-30		18.81	50	75.24	
c-36		10.34	50	41.36	

Recovery C9-C18
66.08

Recovery C19-C36
77.23

naphthalene #2	0.06	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.39	0.36

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47484-bsd

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		13.65	50	54.58	
2-methylnaphthalene		13.65	50	54.62	
2-fluorobiphenyl	s	14.11	40	70.57	
acenaphthylene		14.01	50	56.03	
2-bromonaphthalene	s	13.53	40	67.66	
acenaphthene		15.31	50	61.25	
fluorene		14.82	50	59.29	
phenanthrene		15.11	50	60.43	
anthracene		17.29	50	69.16	
o-terphenyl	s	14.64	40	73.21	
fluoranthene		17.41	50	69.64	
pyrene		17.38	50	69.54	
benzo(a)anthracene		18.57	50	74.30	
chrysene		18.51	50	74.06	
benzo(B)fluoranthene		18.21	50	72.86	
benzo(k)fluoranthene		19.35	50	77.38	
benzo(a)pyrene		19.32	50	77.30	
indeno(1,2,3-cd)pyrene		19.00	50	76.00	
dibenzo(ah)anthracene		19.60	50	78.42	
benzo(ghi)perylene		19.69	50	78.76	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		16.35	50	65.41	
c-10		18.57	50	74.29	
c-12		19.56	50	78.24	
c-14		19.62	50	78.46	
c-16		19.78	50	79.11	
c-18		21.33	50	85.31	
c-19		23.67	50	94.67	
c-20		24.23	50	96.91	
1-chlorooctadecane	s	13.34	40	66.69	
c-22		24.42	50	97.70	
c-24		24.18	50	96.72	
c-26		23.58	50	94.33	
c-28		22.89	50	91.58	
c-30		20.84	50	83.36	
c-36		9.18	50	36.71	

Recovery C9-C18
76.80

Recovery C19-C36
86.50

naphthalene #2	0.07	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.53	0.42

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47530-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		16.98	50	67.92	
2-methylnaphthalene		17.60	50	70.38	
2-fluorobiphenyl	s	15.93	40	79.65	
acenaphthylene		18.89	50	75.55	
2-bromonaphthalene	s	15.17	40	75.86	
acenaphthene		20.73	50	82.91	
fluorene		19.85	50	79.39	
phenanthrene		20.00	50	80.00	
anthracene		22.18	50	88.72	
o-terphenyl	s	18.80	40	94.01	
fluoranthene		21.97	50	87.89	
pyrene		21.88	50	87.52	
benzo(a)anthracene		22.60	50	90.39	
chrysene		22.58	50	90.31	
benzo(B)fluoranthene		24.04	50	96.16	
benzo(k)fluoranthene		21.74	50	86.95	
benzo(a)pyrene		23.52	50	94.06	
indeno(1,2,3-cd)pyrene		23.69	50	94.74	
dibenzo(ah)anthracene		23.62	50	94.47	
benzo(ghi)perylene		24.02	50	96.07	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		18.87	50	75.48	
c-10		21.58	50	86.31	
c-12		22.77	50	91.08	
c-14		23.46	50	93.84	
c-16		23.78	50	95.13	
c-18		24.06	50	96.23	
c-19		26.31	50	105.22	
c-20		25.87	50	103.49	
1-chlorooctadecane	s	12.02	40	60.09	
c-22		25.45	50	101.81	
c-24		25.13	50	100.51	
c-26		24.60	50	98.39	
c-28		24.31	50	97.26	
c-30		24.18	50	96.73	
c-36		21.13	50	84.53	

Recovery C9-C18
89.68

Recovery C19-C36
98.49

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47530-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.91	50	51.66	
2-methylnaphthalene		13.49	50	53.98	
2-fluorobiphenyl	s	12.88	40	64.39	
acenaphthylene		15.05	50	60.22	
2-bromonaphthalene	s	11.96	40	59.81	
acenaphthene		16.24	50	64.97	
fluorene		16.70	50	66.79	
phenanthrene		18.01	50	72.02	
anthracene		20.07	50	80.29	
o-terphenyl	s	17.44	40	87.22	
fluoranthene		20.95	50	83.81	
pyrene		20.83	50	83.34	
benzo(a)anthracene		21.64	50	86.58	
chrysene		21.60	50	86.39	
benzo(B)fluoranthene		22.95	50	91.81	
benzo(k)fluoranthene		21.75	50	87.01	
benzo(a)pyrene		22.95	50	91.82	
indeno(1,2,3-cd)pyrene		22.92	50	91.69	
dibenzo(ah)anthracene		23.29	50	93.17	
benzo(ghi)perylene		23.51	50	94.03	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		14.39	50	57.55	
c-10		16.26	50	65.04	
c-12		16.99	50	67.94	
c-14		17.50	50	70.02	
c-16		18.26	50	73.03	
c-18		18.79	50	75.16	
c-19		20.64	50	82.54	
c-20		20.38	50	81.51	
1-chlorooctadecane	s	9.80	40	49.01	
c-22		20.31	50	81.23	
c-24		20.20	50	80.80	
c-26		19.98	50	79.91	
c-28		19.91	50	79.63	
c-30		19.94	50	79.78	
c-36		17.33	50	69.31	

Recovery C9-C18
68.12

Recovery C19-C36
79.34

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

Extraction Log - Aqueous

Analysis Method: RMAEPHR

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
Fluo	P076661	40	1mL

	Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
1	OP47333 MB	N/A	2	N/A	DI WATER	1000	2.0	
	BS	↓	↓	↓	↓	↓	↓	
	BSD							
	MS							
	MSD							
1	MC45678-1A	2	2	N/A		860	2.0	
2	↓ -2A	1	↓	↓		880	↓	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Comments:

Witness Initials:

Supervisor Approval:

PA 5/5/16

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

SGS ACCUTEST - MARLBOROUGH
Form: OP018-02
Rev Date: 2/23/16

OP47333		DATE	TIME
Extracted by:	GD/JC	5/3/16	2200
Spike Witness:	JC	↓	↓
Concentrated by:	PA	5/5/16	
Fractionated by:		Volume (ml):	12.5
Received by:		5/6/16	9:00

Tray # W1

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)			
Waterbath Temp °C	68E1	75/80	
NEVAP (32-38 °C)	09005	40	
Chiller	Isotemp	13	
Balance	NA	N/A	N/A

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/ ACETONE		Fisher	
1:1 METH CHLOR/ ACETONE		Fisher	
HEXANE Only	162044	Fisher	
ETHER		Fisher	
ACETONITRILE		Fisher	
ACETONE		Fisher	
DCM	162489	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	3062894S	Kwik-Lok
SILICA GEL		
SODIUM SULFATE	D-015	FISHER
FILTER PAPER	966841	
COPPER		
FLORISIL	PA 5/5/16	
SULFURIC ACID		
HYDROMATRIX		
SAND		

Filtered by:	Init./Date:	
HCL	4115020	FISHER

974 of 977 ACCUTEST MC45678 SGS

ACCUTEST

Extraction Log - Soils

Analysis Method: BMAEPH, BMAEPHR

Date Started: _____ Time Started: _____

Date Finished: _____ Time Finished: _____

Extraction Method (Check one):
Microwave SW3546 #3
Waste Dilution SW3580A _____
Equipment ID Used _____
ASE SW 3545A _____
Sonication SW3550C* _____
Soxhlet SW3540C _____
MSE EPA 3570 _____

Spike ID	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Amt. (ul)
EPH	7483	2000	20
Fluo	P07661	40	1mL

Witness Initials:

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

	Sample #	Sample Bottle #	ASE Position #	Sample Description	Sample Wet Wt. (gram)	Final Extract Volume (mL)	Comments
	OP47484 MB	NA	NA		11.10	2.0	
	BS				11.80		
	BSD				11.58		
	~~MC45694-1~~ MS						
	MSD						
	MC45678-3 MS	1	NA	CLAY	11.06	2.0	
	-3 MSD	1			11.15		
1	MC45694-1	4	NA	SOIL	11.16		
2	-2				11.11		
3	-3				11.55		
4	-4				11.46		
5	MC45678-3	1		CLAY	11.25		
6	MC45874-1	2		SOIL	11.~~44~~ .62		
7	-2				11.~~55~~ .49		
8	-3				11.72		
9	MC45903-1	2			11.86		
10	-2				11.08		
11	-3				11.76		
12	-4				11.48		
13	-5				11.58		
14	-6				11.15		
15	MC45752-1	4		DAMP SOIL	11.80		
16	-2				11.~~64~~ .78		
17	MC45753-1				11.63		
18	-2				11.16		
19	-3				11.79		
20							

Comments:

BATCH # OP47484	INITIALS	DATE	TIME
Extacted by:	FT	5/15/16	11:30
Spike Witness:			
Concentrated by:	PA	5/12/16	
Fractionated by:		Volume (ml):	12.5
Received by:	PA	5/18/16	8:30

Tray # H1

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)			
Waterbath Temp °C	090320XE	75/80	
NEVAP (32-38 °C)	09005	38/40	
Chiller			
Balance	ACC 11	N/A	N/A
*Sonnication Horn	ID	Tuned?	Initials
Misonix XL 2020			

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/		Fisher	
ACETONE		Fisher	
1:1 METH CHLOR/	162342	Fisher	
ACETONE	158570	Fisher	
HEXANE Only	162040	Fisher	
ETHER		Fisher	
ACETONITRILE		Fisher	
ACETONE		Fisher	
DCM	162342	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	3062895	Restek
SILICA GEL		
SODIUM SULFATE	D-020	FISHER
FILTER PAPER		
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		
FILTERED BY	Init./Date:	

SGS ACCUTEST - MARLBOROUGH
Form: OP017-03
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: MC45678
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: MC45678-3 **Analyzed:** 09-MAY-16 by EL **Method:** SM 2540G-97 MOD
ClientID: RA-18(12.5-13.5)

Wet Weight (Total)	31.137	g
Tare Weight	25.769	g
Dry Weight (Total)	29.891	g
Solids, Percent	76.8	%