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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: MC45969

Sampling Date: 05/17/16

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: **895**

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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Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45969

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45969-1	05/17/16	09:45	TT	05/18/16	AQ	Ground Water	RA3-GWD
MC45969-1A	05/17/16	09:45	TT	05/18/16	AQ	Ground Water	RA3-GWD
MC45969-2	05/17/16	09:55	TT	05/18/16	AQ	Ground Water	RA3D-GWD
MC45969-2A	05/17/16	09:55	TT	05/18/16	AQ	Ground Water	RA3D-GWD
MC45969-3	05/17/16	12:15	TT	05/18/16	AQ	Ground Water	RA3-GWS
MC45969-3A	05/17/16	12:15	TT	05/18/16	AQ	Ground Water	RA3-GWS

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Anderson Mulholland and Assoc.	**Job No**	MC45969
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	5/23/2016 10:16:21 A

3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 05/17/2016 and were received at SGS Accutest New England on 05/18/2016 properly preserved, at 4.4 Deg. C and intact. These Samples received a job number of MC45969. 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:** GBD3638

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45945-1MS, MC45945-1MSD were used as the QC samples indicated.
- Initial Calibration GBD3574-ICC3574 and Initial calibration verification standard GBD3574-ICV3574 are not associated with this job.
- Calibration check standard GBD3639-CC3572, GBD3640-CC3574, GBD3641-CC3572 and GBD3642-CC3574 are not associated with this job.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47537

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

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC45969).

Summary of Hits

Job Number: MC45969
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 05/17/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45969-1	**RA3-GWD**					
C5- C8 Aliphatics (Unadj.)		42.3 J	50	40	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics (Unadj.)		77.1	50	40	ug/l	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)		48.7 J	50	40	ug/l	MADEP VPH REV 1.1
MC45969-1A	**RA3-GWD**					
No hits reported in this sample.						
MC45969-2	**RA3D-GWD**					
C5- C8 Aliphatics (Unadj.)		40.0 J	50	40	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics (Unadj.)		51.3	50	40	ug/l	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)		43.1 J	50	40	ug/l	MADEP VPH REV 1.1
MC45969-2A	**RA3D-GWD**					
No hits reported in this sample.						
MC45969-3	**RA3-GWS**					
No hits reported in this sample.						
MC45969-3A	**RA3-GWS**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA3-GWD		
Lab Sample ID:	MC45969-1	**Date Sampled:**	05/17/16
Matrix:	AQ - Ground Water	**Date Received:**	05/18/16
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	BD73625.D	1	05/18/16	AF	n/a	n/a	GBD3638
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.)	42.3	50	40	ug/l	J
	C9- C12 Aliphatics (Unadj.)	77.1	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	48.7	50	40	ug/l	J
	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	81%		70-130%
	2,3,4-Trifluorotoluene	99%		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:	RA3-GWD		
Lab Sample ID:	MC45969-1A	**Date Sampled:**	05/17/16
Matrix:	AQ - Ground Water	**Date Received:**	05/18/16
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	DE14199.D	1	05/21/16	TA	05/18/16	OP47537	GDE794
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	79	ug/l	
	C9-C18 Aliphatics	ND	110	79	ug/l	
	C19-C36 Aliphatics	ND	110	79	ug/l	
	C11-C22 Aromatics	ND	110	79	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%
3386-33-2	1-Chlorooctadecane	66%		40-140%
580-13-2	2-Bromonaphthalene	77%		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:	RA3D-GWD		
Lab Sample ID:	MC45969-2	**Date Sampled:**	05/17/16
Matrix:	AQ - Ground Water	**Date Received:**	05/18/16
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	BD73626.D	1	05/18/16	AF	n/a	n/a	GBD3638
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.)	40.0	50	40	ug/l	J
	C9- C12 Aliphatics (Unadj.)	51.3	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	43.1	50	40	ug/l	J
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	86%		70-130%
	2,3,4-Trifluorotoluene	103%		70-130%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA3D-GWD		
Lab Sample ID:	MC45969-2A	**Date Sampled:**	05/17/16
Matrix:	AQ - Ground Water	**Date Received:**	05/18/16
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	DE14200.D	1	05/21/16	TA	05/18/16	OP47537	GDE794
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	79	ug/l	
	C9-C18 Aliphatics	ND	110	79	ug/l	
	C19-C36 Aliphatics	ND	110	79	ug/l	
	C11-C22 Aromatics	ND	110	79	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		40-140%
321-60-8	2-Fluorobiphenyl	71%		40-140%
3386-33-2	1-Chlorooctadecane	65%		40-140%
580-13-2	2-Bromonaphthalene	63%		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:	RA3-GWS		
Lab Sample ID:	MC45969-3	**Date Sampled:**	05/17/16
Matrix:	AQ - Ground Water	**Date Received:**	05/18/16
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	BD73627.D	1	05/18/16	AF	n/a	n/a	GBD3638
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	86%		70-130%
	2,3,4-Trifluorotoluene	104%		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:	RA3-GWS		
Lab Sample ID:	MC45969-3A	**Date Sampled:**	05/17/16
Matrix:	AQ - Ground Water	**Date Received:**	05/18/16
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	DE14201.D	1	05/21/16	TA	05/18/16	OP47537	GDE794
Run #2							

	Initial Volume	Final Volume
Run #1	865 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	86%		40-140%
321-60-8	2-Fluorobiphenyl	68%		40-140%
3386-33-2	1-Chlorooctadecane	69%		40-140%
580-13-2	2-Bromonaphthalene	72%		40-140%

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

SGS ACCUTEST -NE

CHAIN OF CUSTODY

SGS Accutest ~~Dayton~~ New England
~~2235 Route 130, Dayton, NJ 08810~~ 50 D'Angelo
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com Marlborough MA

PAGE 1 OF 1

SGS Accutest Quote # 80996056956 5

Bottle Order Control # MC45969

SGS Accutest Job # Get from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc Inc
Street Address: 2700 Westchester
City: Purchase State: NY Zip:
Project Contact: Terry Taylor E-mail:
Phone #: 914-257-0400 Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrom Phone #:

Project Information

Project Name: BMS Release Assessment
Street:
City: Humcao State: PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet): VMAVPH, BMAEPHR

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VMAVPH	BMAEPHR	LAB USE ONLY
-1	RA3-GWD		05/17/16	0945	TT	GW	5	5								X	X	
-2	RA3D-GWD		05/17/16	0955	TT	GW	5	5								X	X	
-3	RA3-GWS		05/17/16	1215	TT	GW	5	5								X	X	
																		18A
																		3L1

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

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

RUSH!

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

NJ Data of Known Quality Protocol Reporting

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

NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT

LABEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory

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

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1	05/17/16 1500	1 FedEX	2		2
3 FedEx	5-18-16 1000	3	4		4
5		5			

Custody Seal # 722 [ ] Intact [ ] Not intact Preserved where applicable [ ] On Ice [x] Cooler Temp. 4.4°C

MC45969: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC45969 **Client:** ANDERSON **Project:** BMS

Date / Time Received: 5/18/2016 10:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8099 6056 9565 0402

Cooler Temps (Initial/Adjusted): #1: (4.4/4.4);

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

5.1

5

MC45969: Chain of Custody
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Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45969

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45969-1	Collected: 17-MAY-16 09:45 By: TT		Received: 18-MAY-16 By: NT			
RA3-GWD						
MC45969-1	MADEP VPH REV 1.1	18-MAY-16 18:36	AF			VMAVPHR
MC45969-2	Collected: 17-MAY-16 09:55 By: TT		Received: 18-MAY-16 By: NT			
RA3D-GWD						
MC45969-2	MADEP VPH REV 1.1	18-MAY-16 19:15	AF			VMAVPHR
MC45969-3	Collected: 17-MAY-16 12:15 By: TT		Received: 18-MAY-16 By: NT			
RA3-GWS						
MC45969-3	MADEP VPH REV 1.1	18-MAY-16 19:54	AF			VMAVPHR
MC45969-1A	Collected: 17-MAY-16 09:45 By: TT		Received: 18-MAY-16 By: NT			
RA3-GWD						
MC45969-1A	MADEP EPH REV 1.1	21-MAY-16 11:10	TA	18-MAY-16	JM	BMAEPHR
MC45969-2A	Collected: 17-MAY-16 09:55 By: TT		Received: 18-MAY-16 By: NT			
RA3D-GWD						
MC45969-2A	MADEP EPH REV 1.1	21-MAY-16 11:38	TA	18-MAY-16	JM	BMAEPHR
MC45969-3A	Collected: 17-MAY-16 12:15 By: TT		Received: 18-MAY-16 By: NT			
RA3-GWS						
MC45969-3A	MADEP EPH REV 1.1	21-MAY-16 12:06	TA	18-MAY-16	JM	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 05/18/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45969-1.1	VOC Ref #3	Anthony Franciosa	05/18/16 14:25	Retrieve from Storage
MC45969-1.1	Anthony Franciosa	GCBD	05/18/16 14:25	Load on Instrument
MC45969-1.1	GCBD	Anthony Franciosa	05/19/16 07:19	Unload from Instrument
MC45969-1.1	Anthony Franciosa	VOC Ref #3	05/19/16 07:19	Return to Storage
MC45969-1.5	Walk In Ref #22	Ilir Capi	05/18/16 17:31	Retrieve from Storage
MC45969-2.1	VOC Ref #3	Anthony Franciosa	05/18/16 14:25	Retrieve from Storage
MC45969-2.1	Anthony Franciosa	GCBD	05/18/16 14:25	Load on Instrument
MC45969-2.1	GCBD	Anthony Franciosa	05/19/16 07:19	Unload from Instrument
MC45969-2.1	Anthony Franciosa	VOC Ref #3	05/19/16 07:19	Return to Storage
MC45969-2.5	Walk In Ref #22	Ilir Capi	05/18/16 17:31	Retrieve from Storage
MC45969-3.1	VOC Ref #3	Anthony Franciosa	05/18/16 14:25	Retrieve from Storage
MC45969-3.1	Anthony Franciosa	GCBD	05/18/16 14:25	Load on Instrument
MC45969-3.1	GCBD	Anthony Franciosa	05/19/16 07:19	Unload from Instrument
MC45969-3.1	Anthony Franciosa	VOC Ref #3	05/19/16 07:19	Return to Storage
MC45969-3.5	Walk In Ref #22	Ilir Capi	05/18/16 17:31	Retrieve from 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: MC45969
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
GBD3638-MB	BD73608.D	1	05/18/16	AF	n/a	n/a	GBD3638

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

MC45969-1, MC45969-2, MC45969-3

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

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	82%	70-130%
	2,3,4-Trifluorotoluene	99%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45969
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
GBD3638-BSP	BD73609.D	1	05/18/16	AF	n/a	n/a	GBD3638
GBD3638-BSD	BD73610.D	1	05/18/16	AF	n/a	n/a	GBD3638

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

MC45969-1, MC45969-2, MC45969-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	135	90	132	88	2	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	118	79	115	77	3	70-130/25
	C9- C10 Aromatics (Unadj.)	50	43.4	87	42.8	86	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	84%	82%	70-130%
	2,3,4-Trifluorotoluene	103%	99%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45969
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
MC45945-1MS	BD73612.D	1	05/18/16	AF	n/a	n/a	GBD3638
MC45945-1MSD	BD73613.D	1	05/18/16	AF	n/a	n/a	GBD3638
MC45945-1	BD73611.D	1	05/18/16	AF	n/a	n/a	GBD3638

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

MC45969-1, MC45969-2, MC45969-3

CAS No.	Compound	MC45945-1 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	321	92	350	317	91	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		400	423	106	400	409	102	3	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	137	91	150	130	97	5	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45945-1	Limits
	2,3,4-Trifluorotoluene	83%	84%	84%	70-130%
	2,3,4-Trifluorotoluene	100%	100%	100%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45969
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]
MC45969-1	BD73625.D	81	99
MC45969-2	BD73626.D	86	103
MC45969-3	BD73627.D	86	104
GBD3638-BSD	BD73610.D	82	99
GBD3638-BSP	BD73609.D	84	103
GBD3638-MB	BD73608.D	82	99
MC45945-1MS	BD73612.D	83	100
MC45945-1MSD	BD73613.D	84	100

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: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3638-CC3572	**Injection Date:**	05/18/16
Lab File ID:	BD73607.D	**Injection Time:**	07:15
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBD3638-MB	BD73608.D	05/18/16	07:53	21.24	21.24
GBD3638-BSP	BD73609.D	05/18/16	08:30	21.24	21.24
GBD3638-BSD	BD73610.D	05/18/16	09:08	21.24	21.24
MC45945-1	BD73611.D	05/18/16	09:46	21.24	21.24
MC45945-1MS	BD73612.D	05/18/16	10:24	21.24	21.24
MC45945-1MSD	BD73613.D	05/18/16	11:03	21.24	21.24

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3638-CC3572	**Injection Date:**	05/18/16
Lab File ID:	BD73614.D	**Injection Time:**	11:42
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std		21.24	21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
GBD3640-MB	BD73615.D	05/18/16	12:20	16.42	21.24	
GBD3639-MB	BD73615A.D	05/18/16	12:20		21.24	21.24
GBD3642-MB	BD73616.D	05/18/16	12:58	16.42	21.24	
GBD3641-MB	BD73616C.D	05/18/16	12:58		21.24	21.24
ZZZZZZ	BD73617.D	05/18/16	13:36	16.42	21.24	
ZZZZZZ	BD73619.D	05/18/16	14:51	16.42	21.24	
ZZZZZZ	BD73620.D	05/18/16	15:29	16.42	21.24	
ZZZZZZ	BD73620A.D	05/18/16	15:29		21.24	21.24
ZZZZZZ	BD73621A.D	05/18/16	16:06		21.24	21.24
ZZZZZZ	BD73621.D	05/18/16	16:06	16.42	21.24	
ZZZZZZ	BD73622.D	05/18/16	16:44	16.42	21.24	
ZZZZZZ	BD73622C.D	05/18/16	16:44		21.24	21.24
ZZZZZZ	BD73623.D	05/18/16	17:21		21.24	21.24
ZZZZZZ	BD73624.D	05/18/16	17:59		21.24	21.24
MC45969-1	BD73625.D	05/18/16	18:36		21.24	21.24
MC45969-2	BD73626.D	05/18/16	19:15		21.24	21.24
MC45969-3	BD73627.D	05/18/16	19:54		21.24	21.24

Surrogate Compounds

S1 = Fluorobenzene
S2 = 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: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3639-CC3572	**Injection Date:**	05/18/16
Lab File ID:	BD73614A.D	**Injection Time:**	11:42
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std		21.24	21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
GBD3639-MB	BD73615A.D	05/18/16	12:20		21.24	21.24
GBD3640-MB	BD73615.D	05/18/16	12:20	16.42	21.24	
GBD3642-MB	BD73616.D	05/18/16	12:58	16.42	21.24	
GBD3641-MB	BD73616C.D	05/18/16	12:58		21.24	21.24
ZZZZZZ	BD73617.D	05/18/16	13:36	16.42	21.24	
ZZZZZZ	BD73619.D	05/18/16	14:51	16.42	21.24	
ZZZZZZ	BD73620.D	05/18/16	15:29	16.42	21.24	
ZZZZZZ	BD73620A.D	05/18/16	15:29		21.24	21.24
ZZZZZZ	BD73621A.D	05/18/16	16:06		21.24	21.24
ZZZZZZ	BD73621.D	05/18/16	16:06	16.42	21.24	
ZZZZZZ	BD73622.D	05/18/16	16:44	16.42	21.24	
ZZZZZZ	BD73622C.D	05/18/16	16:44		21.24	21.24
ZZZZZZ	BD73623.D	05/18/16	17:21		21.24	21.24
ZZZZZZ	BD73624.D	05/18/16	17:59		21.24	21.24
MC45969-1	BD73625.D	05/18/16	18:36		21.24	21.24
MC45969-2	BD73626.D	05/18/16	19:15		21.24	21.24
MC45969-3	BD73627.D	05/18/16	19:54		21.24	21.24

Surrogate Compounds

S1 = Fluorobenzene
S2 = 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: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3641-CC3572	**Injection Date:**	05/18/16
Lab File ID:	BD73614C.D	**Injection Time:**	11:42
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std		21.24	21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
GBD3640-MB	BD73615.D	05/18/16	12:20	16.42	21.24	
GBD3639-MB	BD73615A.D	05/18/16	12:20		21.24	21.24
GBD3642-MB	BD73616.D	05/18/16	12:58	16.42	21.24	
GBD3641-MB	BD73616C.D	05/18/16	12:58		21.24	21.24
ZZZZZZ	BD73617.D	05/18/16	13:36	16.42	21.24	
ZZZZZZ	BD73619.D	05/18/16	14:51	16.42	21.24	
ZZZZZZ	BD73620.D	05/18/16	15:29	16.42	21.24	
ZZZZZZ	BD73620A.D	05/18/16	15:29		21.24	21.24
ZZZZZZ	BD73621A.D	05/18/16	16:06		21.24	21.24
ZZZZZZ	BD73621.D	05/18/16	16:06	16.42	21.24	
ZZZZZZ	BD73622.D	05/18/16	16:44	16.42	21.24	
ZZZZZZ	BD73622C.D	05/18/16	16:44		21.24	21.24
ZZZZZZ	BD73623.D	05/18/16	17:21		21.24	21.24
ZZZZZZ	BD73624.D	05/18/16	17:59		21.24	21.24
MC45969-1	BD73625.D	05/18/16	18:36		21.24	21.24
MC45969-2	BD73626.D	05/18/16	19:15		21.24	21.24
MC45969-3	BD73627.D	05/18/16	19:54		21.24	21.24

Surrogate Compounds

S1 = Fluorobenzene
S2 = 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: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3642-CC3574	**Injection Date:**	05/18/16
Lab File ID:	BD73614D.D	**Injection Time:**	11:42
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std	16.42	21.24	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
GBD3640-MB	BD73615.D	05/18/16	12:20	16.42	21.24	
GBD3639-MB	BD73615A.D	05/18/16	12:20		21.24	21.24
GBD3642-MB	BD73616.D	05/18/16	12:58	16.42	21.24	
GBD3641-MB	BD73616C.D	05/18/16	12:58		21.24	21.24
ZZZZZZ	BD73617.D	05/18/16	13:36	16.42	21.24	
ZZZZZZ	BD73619.D	05/18/16	14:51	16.42	21.24	
ZZZZZZ	BD73620A.D	05/18/16	15:29		21.24	21.24
ZZZZZZ	BD73620.D	05/18/16	15:29	16.42	21.24	
ZZZZZZ	BD73621A.D	05/18/16	16:06		21.24	21.24
ZZZZZZ	BD73621.D	05/18/16	16:06	16.42	21.24	
ZZZZZZ	BD73622C.D	05/18/16	16:44		21.24	21.24
ZZZZZZ	BD73622.D	05/18/16	16:44	16.42	21.24	
ZZZZZZ	BD73623.D	05/18/16	17:21		21.24	21.24
ZZZZZZ	BD73624.D	05/18/16	17:59		21.24	21.24
MC45969-1	BD73625.D	05/18/16	18:36		21.24	21.24
MC45969-2	BD73626.D	05/18/16	19:15		21.24	21.24
MC45969-3	BD73627.D	05/18/16	19:54		21.24	21.24

Surrogate Compounds

S1 = Fluorobenzene
S2 = 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: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3640-CC3574	**Injection Date:**	05/18/16
Lab File ID:	BD73614B.D	**Injection Time:**	11:42
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std	16.42	21.24	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
GBD3639-MB	BD73615A.D	05/18/16	12:20		21.24	21.24
GBD3640-MB	BD73615.D	05/18/16	12:20	16.42	21.24	
GBD3642-MB	BD73616.D	05/18/16	12:58	16.42	21.24	
GBD3641-MB	BD73616C.D	05/18/16	12:58		21.24	21.24
ZZZZZZ	BD73617.D	05/18/16	13:36	16.42	21.24	
ZZZZZZ	BD73619.D	05/18/16	14:51	16.42	21.24	
ZZZZZZ	BD73620.D	05/18/16	15:29	16.42	21.24	
ZZZZZZ	BD73620A.D	05/18/16	15:29		21.24	21.24
ZZZZZZ	BD73621A.D	05/18/16	16:06		21.24	21.24
ZZZZZZ	BD73621.D	05/18/16	16:06	16.42	21.24	
ZZZZZZ	BD73622.D	05/18/16	16:44	16.42	21.24	
ZZZZZZ	BD73622C.D	05/18/16	16:44		21.24	21.24
ZZZZZZ	BD73623.D	05/18/16	17:21		21.24	21.24
ZZZZZZ	BD73624.D	05/18/16	17:59		21.24	21.24
MC45969-1	BD73625.D	05/18/16	18:36		21.24	21.24
MC45969-2	BD73626.D	05/18/16	19:15		21.24	21.24
MC45969-3	BD73627.D	05/18/16	19:54		21.24	21.24

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

Initial Calibration Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3572-ICC3572
Lab FileID: BD72684.D

```
                         Response Factor Report  GCBD

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

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

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

Signal #2

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

Initial Calibration Summary

Job Number: MC45969 **Sample:** GBD3572-ICC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD72684.D
Project: BMSMC, Building 5 Area, Puerto Rico

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

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

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

6.6.1

6

Initial Calibration Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3574-ICC3574
Lab FileID: BD72684A.D

```
                         Response Factor Report  GCBD

  Method       : C:\msdchem\1\met...0219v8021btxmn.M (ChemStation Integrator)
  Title        : v8021btxmn nap linear regression inverse
  Last Update  : Mon Feb 22 11:29:19 2016
  Response via : Initial Calibration

  Calibration Files
  1   =bd72680a.d  2   =bd72681a.d  4   =bd72683a.d  3   =bd72682a.d
  5   =bd72684a.d  9   =bd72688a.d  6   =bd72685a.d  8   =bd72687a.d
  7   =bd72686a.d      =

   Compound
             1     2     4     3     5     9     6     8     7       Avg    %RSD
  ---------------------------------------------------------------------------

Signal #2

  2)  mtbe #2
            1.368 1.460 1.667 1.610 1.593 1.466 1.570 1.600 1.536   1.541 E5    6.07
  3)  benzene #2
            4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570   4.836 E5    3.90
  4)  fluorobenzene #2
            3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680   3.393 E5    9.43
  5)  toluene #2
            4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115   4.527 E5    4.86
  6)  2,3,4-trifluorotoluene #2
            1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188   1.969 E5    6.99
  7)  ethylbenzene #2
            4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838   4.150 E5    5.12
  8)  m,p-xylene #2
            5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695   4.984 E5    3.61
  9)  o-xylene #2
            4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075   4.348 E5    5.78
 10)  1,3,5-trimethylbenzene #2
            6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720   6.710 E5    3.14
 11)  1,2,4-trimethylbenzene #2
            5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514   4.919 E5    5.66
 12)  naphthalene #2
            3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469   3.230 E5   24.83
             ----- Linear regression -----  Coefficient =  0.9932
               Response Ratio = -203870.32451 + 364658.28656 *A

 13)  c9-c10 arom as 1,2,4-tmb
                                                                     0.000   -1.00
 14)  2,5-dibromotoluene #2
                                                                     0.000   -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           bd160219v8021btxmn.M        Mon Feb 22 14:35:42 2016
```

Initial Calibration Verification

Job Number: MC45969 **Sample:** GBD3572-ICV3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD72689.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

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

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

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


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

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

Evaluate Continuing Calibration Report - Not Founds

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

Initial Calibration Verification

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3572-ICV3572
Lab FileID: BD72689.D

```
  Signal #2

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

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

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

Initial Calibration Verification

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3574-ICV3574
Lab FileID: BD72689A.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3574-50 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25992,gbd3574,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 11:31:41 2016
Quant Method : C:\msdchem\1\methods\bd160219v8021btxmn.M
Quant Title  : vph - master
QLast Update : Mon Feb 22 11:29:19 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 :


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

	Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
Signal #2							
2	mtbe #2	154.108	166.139	E3	-7.8	104	-0.01
3	benzene #2	483.603	498.327	E3	-3.0	103	0.00
4 s	fluorobenzene #2	339.253	315.976	E3	6.9	103	0.00
5	toluene #2	452.718	462.927	E3	-2.3	103	0.00
6 s	2,3,4-trifluorotoluene #2	196.856	184.637	E3	6.2	102	0.00
7	ethylbenzene #2	415.011	415.024	E3	-0.0	102	0.00
8	m,p-xylene #2	498.443	499.938	E3	-0.3	101	0.00
9	o-xylene #2	434.786	421.153	E3	3.1	101	0.00
10 t	1,3,5-trimethylbenzene #2	671.032	640.180	E3	4.6	101	0.00
11	1,2,4-trimethylbenzene #2	491.876	480.818	E3	2.2	100	0.00
12	naphthalene #2	323.046	399.063	E3	-23.5	105	0.00

Evaluate Continuing Calibration Report - Not Founds

Signal #2						
13	c9-c10 arom as 1,2,4-tmb	0.000	0.000	0.0	0#	0.00
14	2,5-dibromotoluene #2	0.000	0.000	0.0	0#	0.00

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

bd160219v8021btxmn.M Mon Feb 22 11:32:01 2016

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3638-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73607.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 07:15:42
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26249,gbd3638,,,,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 18 08:03:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	535.446 E3	13.2	87	0.00
2	h	rt7/10	616.746	664.331 E3	-7.7	108	0.00
3	h	rt10/13	616.746	573.012 E3	7.1	93	0.00
4	s	fluorobenzene	680.404	740.211 E3	-8.8	109	0.00
6	s	2,3,4-trifluorotoluene	521.007	570.629 E3	-9.5	106	0.00
8	h	rt20/25	800.224	669.196 E3	16.4	84	0.00
10	h	decane	800.224	621.331 E3	22.4	78	0.00
11	h	butylcyclohexane	800.224	735.108 E3	8.1	92	0.00
Signal #2							
14		mtbe #2	154.108	153.185 E3	0.6	96	-0.02
15		benzene #2	483.603	469.184 E3	3.0	97	0.00
16	s	fluorobenzene #2	339.253	301.765 E3	11.1	98	0.00
17		toluene #2	452.718	439.800 E3	2.9	97	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	174.711 E3	11.2	96	0.00
19		ethylbenzene #2	415.011	393.368 E3	5.2	97	0.00
20		m,p-xylene #2	498.443	475.505 E3	4.6	96	0.00
21		o-xylene #2	434.786	402.679 E3	7.4	97	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	577.161 E3	14.0	91	0.00
23		1,2,4-trimethylbenzene #2	491.876	452.584 E3	8.0	95	0.00
24		naphthalene #2	323.046	365.278 E3	-13.1	96	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	451.901 E3	8.1	94	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: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3638-CC3572
Lab FileID: BD73607.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

bd160518vph.M Wed May 18 12:14:17 2016
```

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3642-CC3574
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73614D.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614d.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 11:42:00
Operator  : tonyf
Sample    : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26255,gbd3642 ,,,,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 18 12:22:21 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title  : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial 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)
Signal #2						
2	mtbe #2	154.108	145.726 E3	5.4	91	0.00
3	benzene #2	483.603	447.314 E3	7.5	93	0.00
4 s	fluorobenzene #2	339.253	291.298 E3	14.1	95	0.00
5	toluene #2	452.718	420.226 E3	7.2	93	0.00
6 s	2,3,4-trifluorotoluene #2	196.856	169.165 E3	14.1	93	0.00
7	ethylbenzene #2	415.011	376.114 E3	9.4	93	0.00
8	m,p-xylene #2	498.443	454.342 E3	8.8	92	0.00
9	o-xylene #2	434.786	383.346 E3	11.8	92	0.00
10 t	1,3,5-trimethylbenzene #2	671.032	542.357 E3	19.2	86	0.00
11	1,2,4-trimethylbenzene #2	491.876	427.023 E3	13.2	89	0.00
12	naphthalene #2	323.046	422.933 E3	-30.9#	111	0.00

Evaluate Continuing Calibration Report - Not Founds

Signal #2						
13	c9-c10 arom as 1,2,4-tmb	0.000	0.000	0.0	0#	0.00
14	2,5-dibromotoluene #2	0.000	0.000	0.0	0#	0.00

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

bd160518v8021btxmn.M Thu May 19 10:05:02 2016

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3640-CC3574
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73614B.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 11:42:00
Operator  : tonyf
Sample    : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26254,gbd3640,,,,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 18 12:22:21 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title  : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial 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)
Signal #2						
2	mtbe #2	154.108	145.726 E3	5.4	91	0.00
3	benzene #2	483.603	447.314 E3	7.5	93	0.00
4 s	fluorobenzene #2	339.253	291.298 E3	14.1	95	0.00
5	toluene #2	452.718	420.226 E3	7.2	93	0.00
6 s	2,3,4-trifluorotoluene #2	196.856	169.165 E3	14.1	93	0.00
7	ethylbenzene #2	415.011	376.114 E3	9.4	93	0.00
8	m,p-xylene #2	498.443	454.342 E3	8.8	92	0.00
9	o-xylene #2	434.786	383.346 E3	11.8	92	0.00
10 t	1,3,5-trimethylbenzene #2	671.032	542.357 E3	19.2	86	0.00
11	1,2,4-trimethylbenzene #2	491.876	427.023 E3	13.2	89	0.00
12	naphthalene #2	323.046	422.933 E3	-30.9#	111	0.00

Evaluate Continuing Calibration Report - Not Founds

Signal #2						
13	c9-c10 arom as 1,2,4-tmb	0.000	0.000	0.0	0#	0.00
14	2,5-dibromotoluene #2	0.000	0.000	0.0	0#	0.00

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

bd160518v8021btxmn.M Thu May 19 10:05:00 2016

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3639-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73614A.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 11:42:00
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26252,gbd3639,,,,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 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	485.096 E3	21.3	79	0.00
2	h	rt7/10	616.746	598.394 E3	3.0	97	0.00
3	h	rt10/13	616.746	526.512 E3	14.6	85	0.00
4	s	fluorobenzene	680.404	685.179 E3	-0.7	101	0.00
6	s	2,3,4-trifluorotoluene	521.007	526.692 E3	-1.1	98	0.00
8	h	rt20/25	800.224	640.986 E3	19.9	80	0.00
10	h	decane	800.224	604.502 E3	24.5	76	0.00
11	h	butylcyclohexane	800.224	690.263 E3	13.7	86	0.00
Signal #2							
14		mtbe #2	154.108	145.712 E3	5.4	91	0.00
15		benzene #2	483.603	447.314 E3	7.5	93	0.00
16	s	fluorobenzene #2	339.253	291.298 E3	14.1	95	0.00
17		toluene #2	452.718	420.226 E3	7.2	93	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	169.165 E3	14.1	93	0.00
19		ethylbenzene #2	415.011	376.114 E3	9.4	93	0.00
20		m,p-xylene #2	498.443	454.342 E3	8.8	92	0.00
21		o-xylene #2	434.786	383.346 E3	11.8	92	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	542.357 E3	19.2	86	0.00
23		1,2,4-trimethylbenzene #2	491.876	427.023 E3	13.2	89	0.00
24		naphthalene #2	323.046	424.090 E3	-31.3#	111	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	426.867 E3	13.2	89	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Continuing Calibration Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3639-CC3572
Lab FileID: BD73614A.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

bd160518vph.M Thu May 19 10:10:23 2016
```

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3638-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73614.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 11:42:00
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26249,gbd3638,,,,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 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	485.096 E3	21.3	79	0.00
2	h	rt7/10	616.746	598.394 E3	3.0	97	0.00
3	h	rt10/13	616.746	526.512 E3	14.6	85	0.00
4	s	fluorobenzene	680.404	685.179 E3	-0.7	101	0.00
6	s	2,3,4-trifluorotoluene	521.007	526.692 E3	-1.1	98	0.00
8	h	rt20/25	800.224	640.986 E3	19.9	80	0.00
10	h	decane	800.224	604.502 E3	24.5	76	0.00
11	h	butylcyclohexane	800.224	690.263 E3	13.7	86	0.00
Signal #2							
14		mtbe #2	154.108	145.712 E3	5.4	91	0.00
15		benzene #2	483.603	447.314 E3	7.5	93	0.00
16	s	fluorobenzene #2	339.253	291.298 E3	14.1	95	0.00
17		toluene #2	452.718	420.226 E3	7.2	93	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	169.165 E3	14.1	93	0.00
19		ethylbenzene #2	415.011	376.114 E3	9.4	93	0.00
20		m,p-xylene #2	498.443	454.342 E3	8.8	92	0.00
21		o-xylene #2	434.786	383.346 E3	11.8	92	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	542.357 E3	19.2	86	0.00
23		1,2,4-trimethylbenzene #2	491.876	427.023 E3	13.2	89	0.00
24		naphthalene #2	323.046	424.090 E3	-31.3#	111	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	426.867 E3	13.2	89	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Continuing Calibration Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3638-CC3572
Lab FileID: BD73614.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

bd160518vph.M Wed May 18 12:14:19 2016
```

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3641-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73614C.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614c.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 11:42:00
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26253,gbd3641,,,,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 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	485.096 E3	21.3	79	0.00
2	h	rt7/10	616.746	598.394 E3	3.0	97	0.00
3	h	rt10/13	616.746	526.512 E3	14.6	85	0.00
4	s	fluorobenzene	680.404	685.179 E3	-0.7	101	0.00
6	s	2,3,4-trifluorotoluene	521.007	526.692 E3	-1.1	98	0.00
8	h	rt20/25	800.224	640.986 E3	19.9	80	0.00
10	h	decane	800.224	604.502 E3	24.5	76	0.00
11	h	butylcyclohexane	800.224	690.263 E3	13.7	86	0.00
Signal #2							
14		mtbe #2	154.108	145.712 E3	5.4	91	0.00
15		benzene #2	483.603	447.314 E3	7.5	93	0.00
16	s	fluorobenzene #2	339.253	291.298 E3	14.1	95	0.00
17		toluene #2	452.718	420.226 E3	7.2	93	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	169.165 E3	14.1	93	0.00
19		ethylbenzene #2	415.011	376.114 E3	9.4	93	0.00
20		m,p-xylene #2	498.443	454.342 E3	8.8	92	0.00
21		o-xylene #2	434.786	383.346 E3	11.8	92	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	542.357 E3	19.2	86	0.00
23		1,2,4-trimethylbenzene #2	491.876	427.023 E3	13.2	89	0.00
24		naphthalene #2	323.046	424.090 E3	-31.3#	111	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	426.867 E3	13.2	89	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Continuing Calibration Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3641-CC3572
Lab FileID: BD73614C.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

bd160518vph.M Thu May 19 10:10:25 2016
```

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3638-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73628.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 20:32:38
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26249,gbd3638,,,,5,1
ALS Vial  : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:42:04 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	518.439 E3	15.9	84	0.00
2	h	rt7/10	616.746	627.249 E3	-1.7	102	0.00
3	h	rt10/13	616.746	579.891 E3	6.0	94	0.00
4	s	fluorobenzene	680.404	703.154 E3	-3.3	103	0.00
6	s	2,3,4-trifluorotoluene	521.007	537.317 E3	-3.1	100	0.00
8	h	rt20/25	800.224	649.122 E3	18.9	81	0.00
10	h	decane	800.224	610.611 E3	23.7	76	0.00
11	h	butylcyclohexane	800.224	707.780 E3	11.6	88	0.00
Signal #2							
14		mtbe #2	154.108	153.679 E3	0.3	96	-0.01
15		benzene #2	483.603	449.249 E3	7.1	93	0.00
16	s	fluorobenzene #2	339.253	292.160 E3	13.9	95	0.00
17		toluene #2	452.718	420.313 E3	7.2	93	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	166.502 E3	15.4	92	0.00
19		ethylbenzene #2	415.011	374.605 E3	9.7	92	0.00
20		m,p-xylene #2	498.443	452.523 E3	9.2	92	0.00
21		o-xylene #2	434.786	382.996 E3	11.9	92	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	549.063 E3	18.2	87	0.00
23		1,2,4-trimethylbenzene #2	491.876	430.637 E3	12.5	90	0.00
24		naphthalene #2	323.046	395.617 E3	-22.5	104	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	430.319 E3	12.5	90	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Continuing Calibration Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3638-CC3572
Lab FileID: BD73628.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

bd160518vph.M Thu May 19 08:53:32 2016
```

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GBD3642-CC3574
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73628D.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628d.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 20:32:38
Operator  : tonyf
Sample    : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26255,gbd3642,,,,5,1
ALS Vial  : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:35:23 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title  : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial 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)
Signal #2						
2	mtbe #2	154.108	153.901 E3	0.1	97	0.00
3	benzene #2	483.603	449.249 E3	7.1	93	0.00
4 s	fluorobenzene #2	339.253	292.160 E3	13.9	95	0.00
5	toluene #2	452.718	420.313 E3	7.2	93	0.00
6 s	2,3,4-trifluorotoluene #2	196.856	166.502 E3	15.4	92	0.00
7	ethylbenzene #2	415.011	374.605 E3	9.7	92	0.00
8	m,p-xylene #2	498.443	452.523 E3	9.2	92	0.00
9	o-xylene #2	434.786	382.996 E3	11.9	92	0.00
10 t	1,3,5-trimethylbenzene #2	671.032	549.063 E3	18.2	87	0.00
11	1,2,4-trimethylbenzene #2	491.876	430.637 E3	12.5	90	0.00
12	naphthalene #2	323.046	395.617 E3	-22.5#	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Signal #2						
13	c9-c10 arom as 1,2,4-tmb	0.000	0.000	0.0	0#	0.00
14	2,5-dibromotoluene #2	0.000	0.000	0.0	0#	0.00

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

bd160518v8021btxmn.M Thu May 19 10:05:20 2016

GC Volatiles

Raw Data

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/19/16 10:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:42:59 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.422	32294997	47.464	ppb	
Spiked Amount 50.000		Recovery =	94.93%		
6) s 2,3,4-trifluorotoluene	21.239	25815126	49.549	ppb	
Spiked Amount 50.000		Recovery =	99.10%		
16) s fluorobenzene #2	16.423	13521111	39.856	ppb	
Spiked Amount 50.000		Recovery =	79.71%		
18) s 2,3,4-trifluorotoluen...	21.239	8019358	40.737	ppb	
Spiked Amount 50.000		Recovery =	81.47%		
Target Compounds					
1) h rt5.5-7	7.470	4014492	6.509	ppb	m
2) h rt7/10	9.920	14624066	23.712	ppb	m
3) h rt10/13	15.200	7436139	12.057	ppb	m
8) h rt20/25	22.840	61671079	77.067	ppb	m
14) mtbe #2	10.679f	6314463	40.974	ppb	m
19) ethylbenzene #2	23.175	946465	2.281	ppb	
20) m,p-xylene #2	23.313	260758	0.523	ppb	
21) o-xylene #2	24.035	126951	0.292	ppb	
24) naphthalene #2	28.761	870639	2.947	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	23937976	48.689	ppb	m

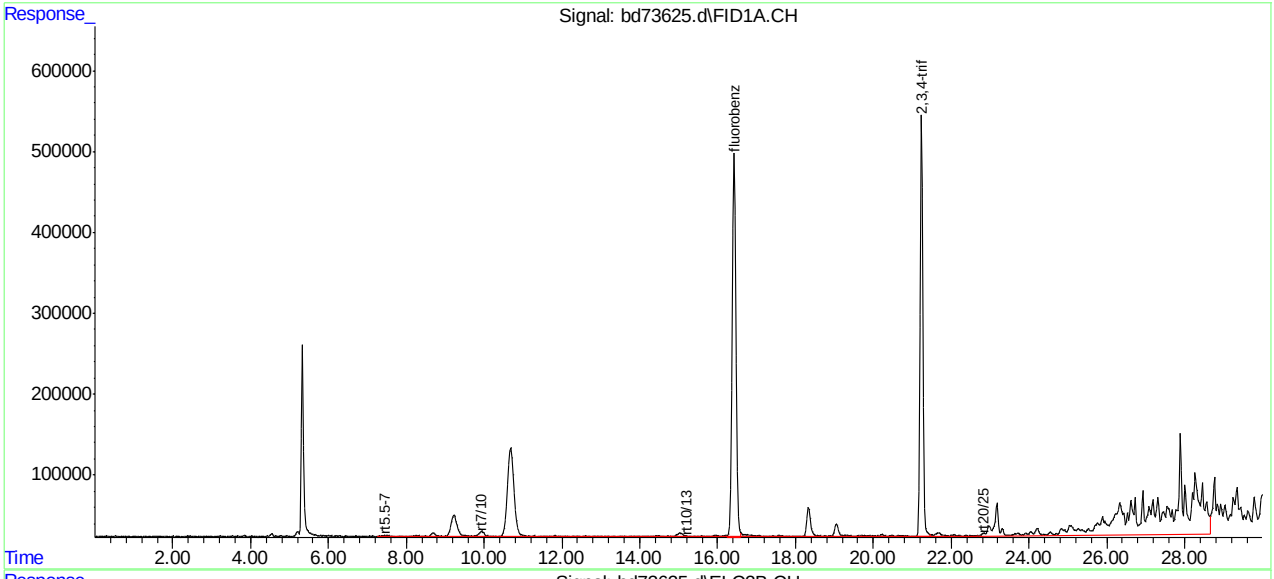
(f)=RT Delta > 1/2 Window (m)=manual int.

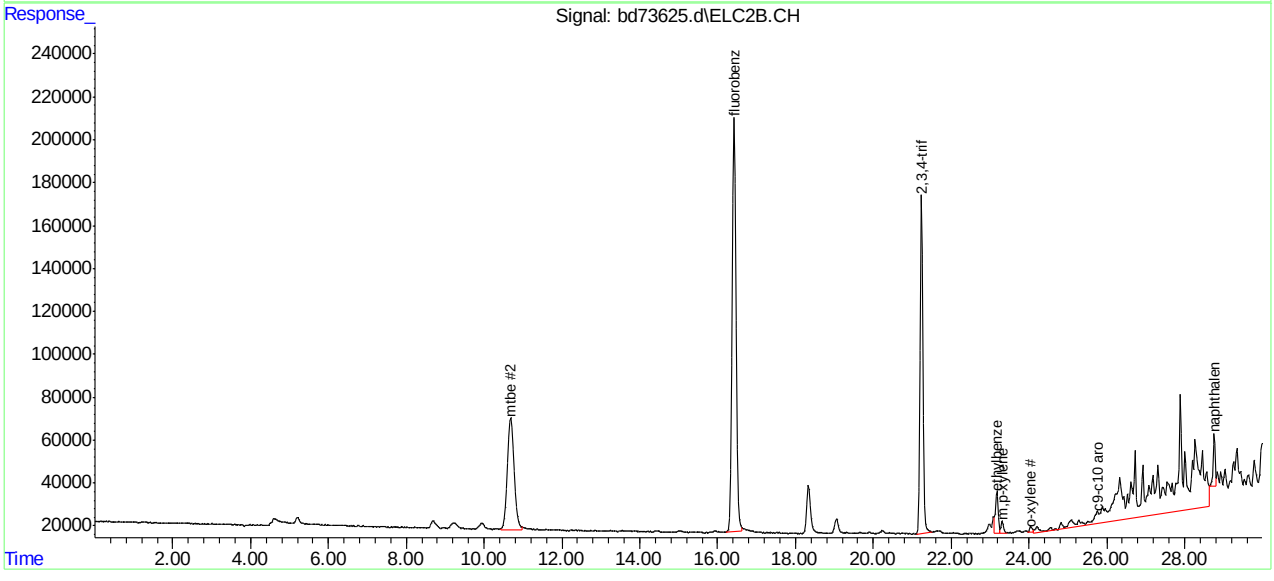
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

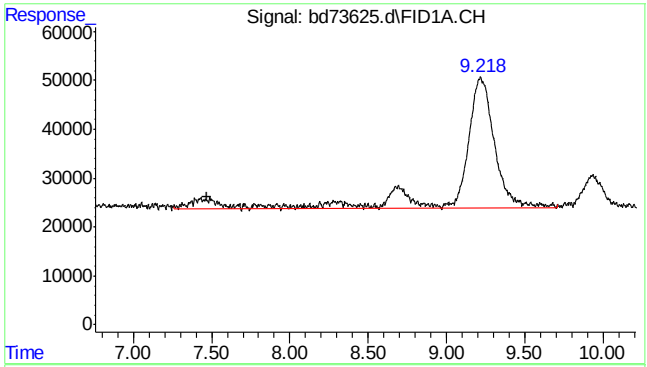
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:42:59 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



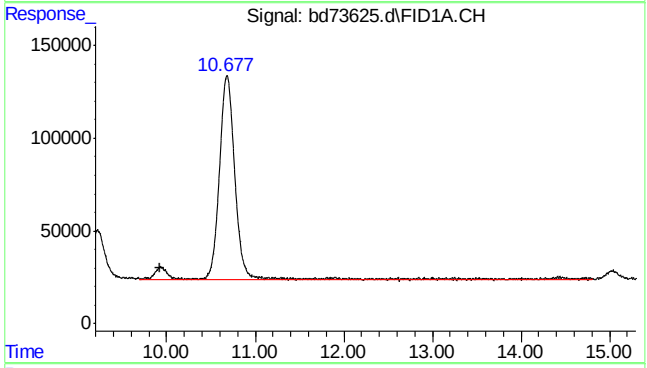


SGS ACCUTEST MC45969



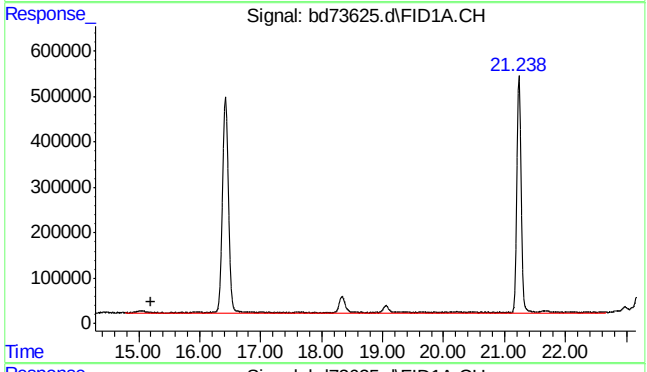
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 4014492
Conc: 6.51 ppb m



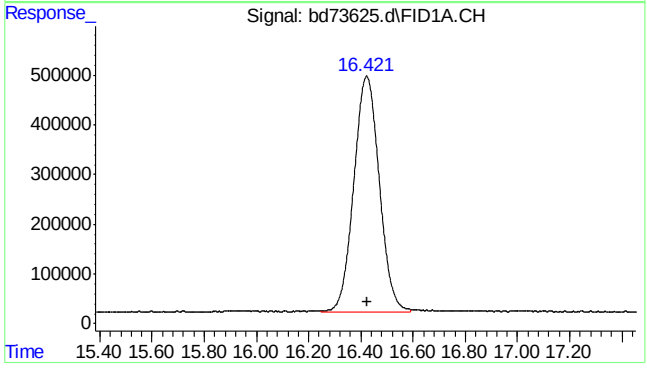
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 14624066
Conc: 23.71 ppb m



#3 rt10/13

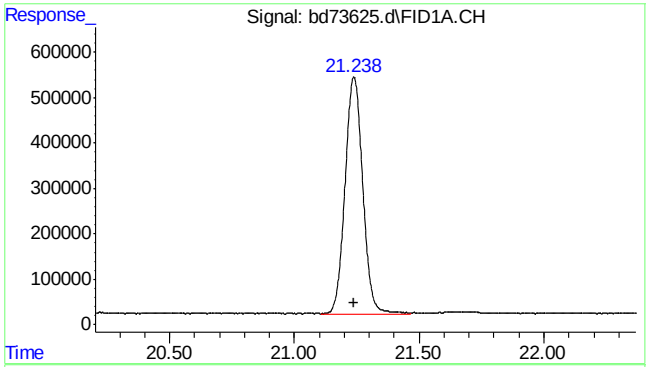
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 7436139
Conc: 12.06 ppb m



#4 fluorobenzene

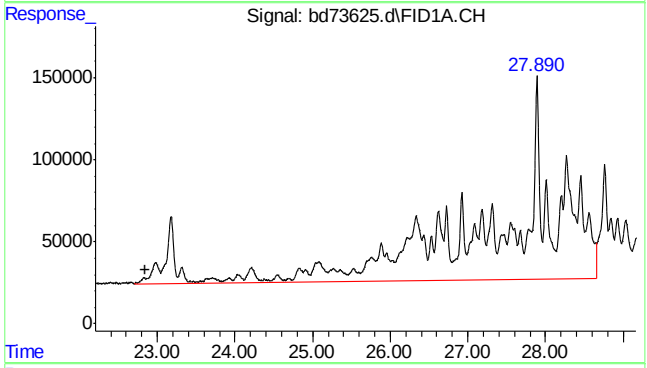
R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 32294997
Conc: 47.46 ppb

SGS ACCUTEST MC45969



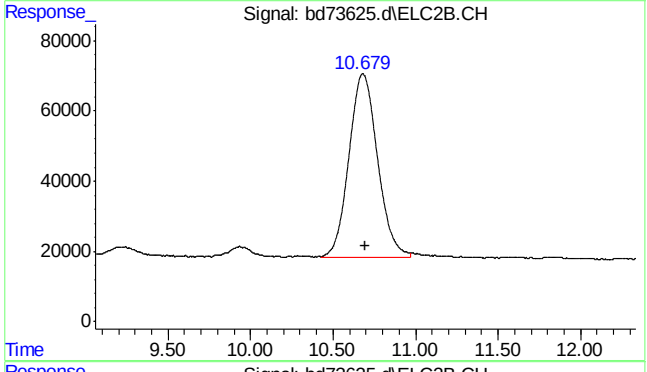
#6 2,3,4-trifluorotoluene

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 25815126
Conc: 49.55 ppb



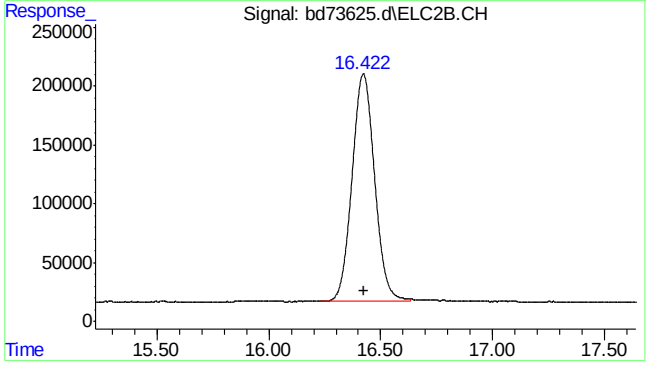
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 61671079
Conc: 77.07 ppb m



#14 mtbe #2

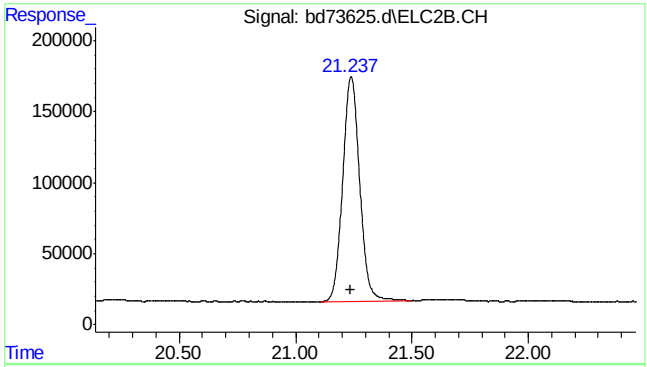
R.T.: 10.679 min
Delta R.T.: -0.017 min
Response: 6314463
Conc: 40.97 ppb m



#16 fluorobenzene #2

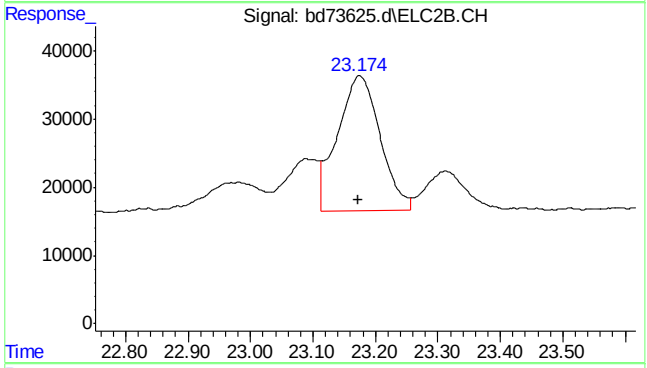
R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 13521111
Conc: 39.86 ppb

SGS ACCUTEST MC45969



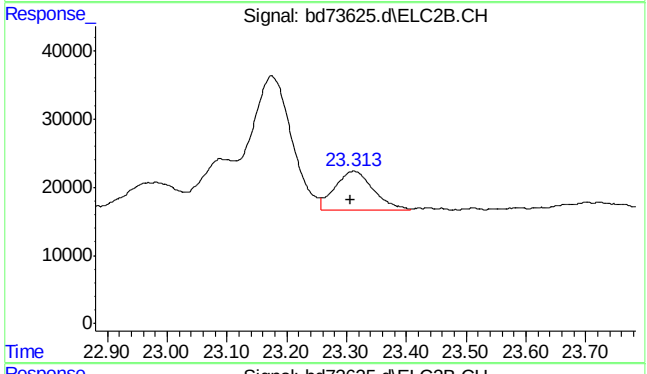
#18 2,3,4-trifluorotoluene #2

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 8019358
Conc: 40.74 ppb



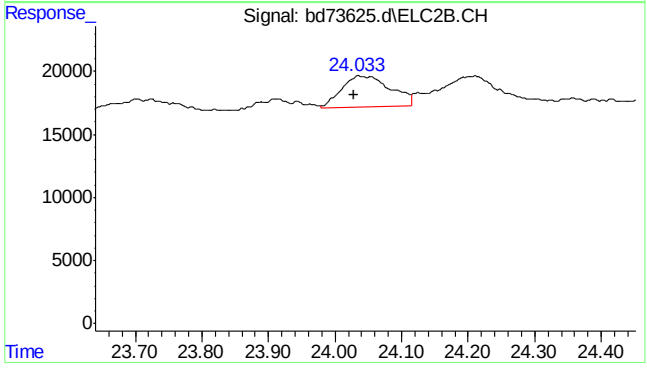
#19 ethylbenzene #2

R.T.: 23.175 min
Delta R.T.: 0.003 min
Response: 946465
Conc: 2.28 ppb



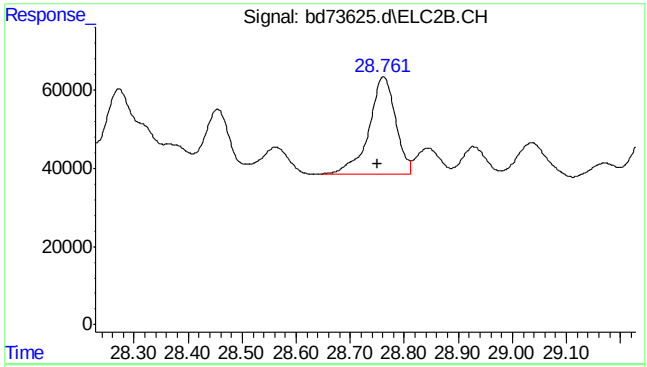
#20 m,p-xylene #2

R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 260758
Conc: 0.52 ppb



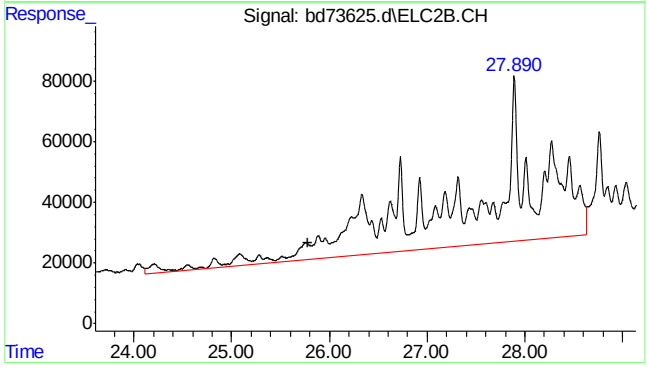
#21 o-xylene #2

R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 126951
Conc: 0.29 ppb



#24 naphthalene #2

```
      R.T.:   28.761 min
Delta R.T.:    0.011 min
  Response:    870639
      Conc:   2.95 ppb m
```



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

```
      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response:  23937976
      Conc:  48.69 ppb m
```

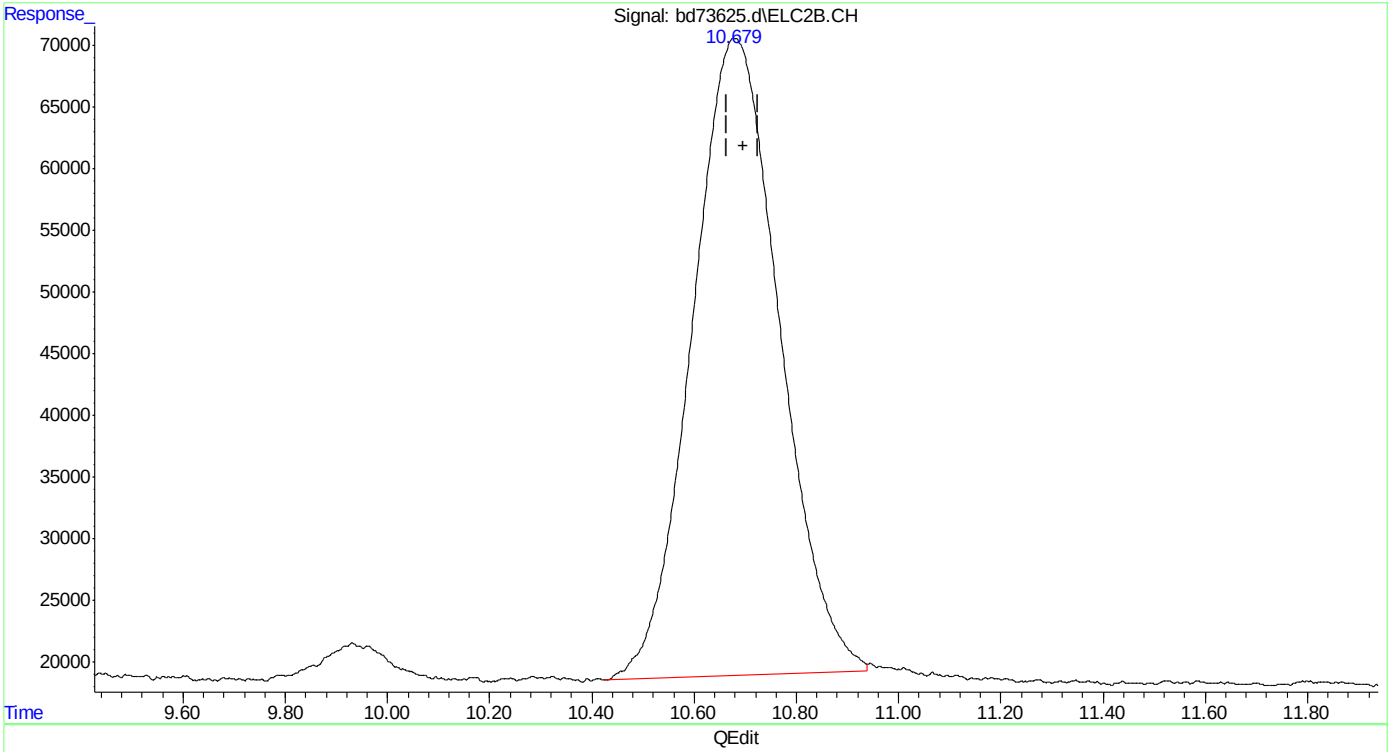

SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 18:36:53
Operator  : tonyf
Sample    : mc45969-1,w,vmavph,00
Misc      : gc26249,gbd3638,,,,5,1
ALS Vial  : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:38:34 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

10.680min 39.798 ppb

response 6133127

(+) = Expected Retention Time

bd160518vph.M Thu May 19 08:40:09 2016

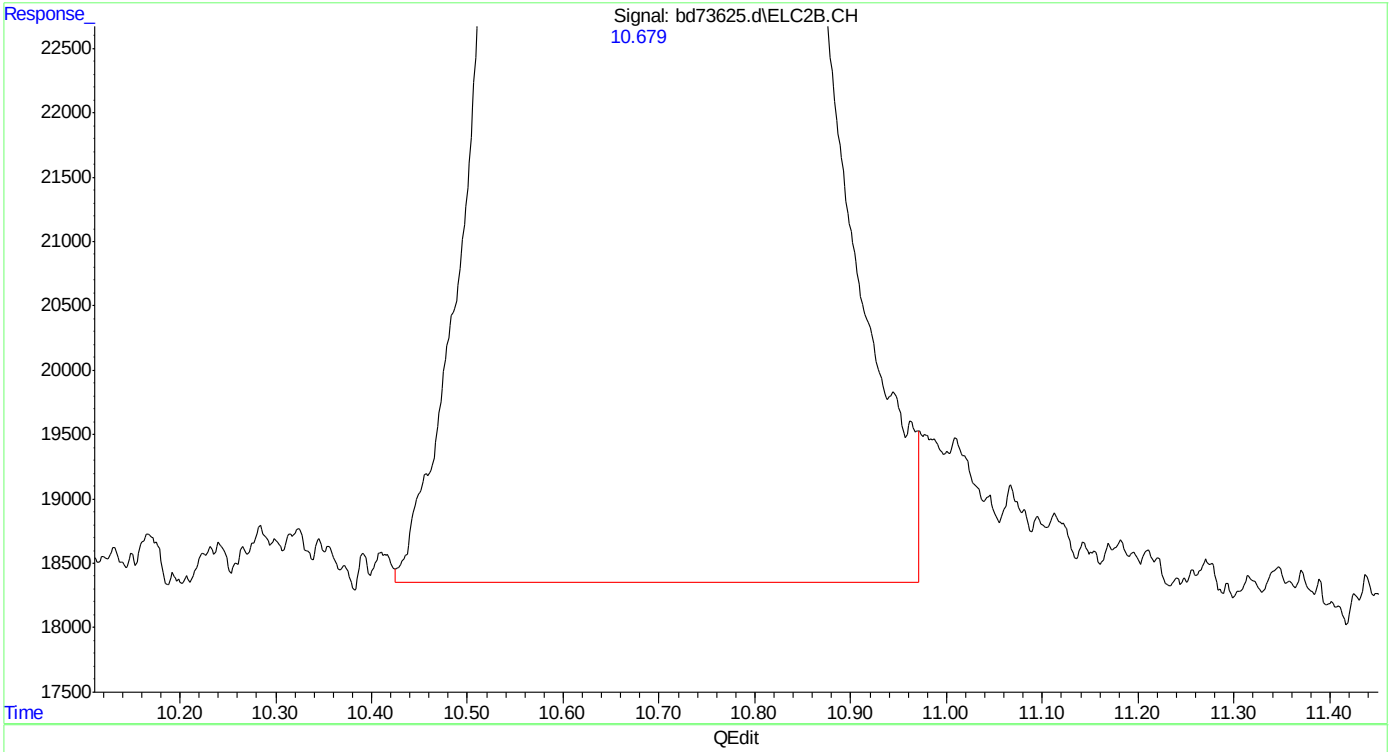
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:38:34 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.679min 40.974 ppb m
response 6314463

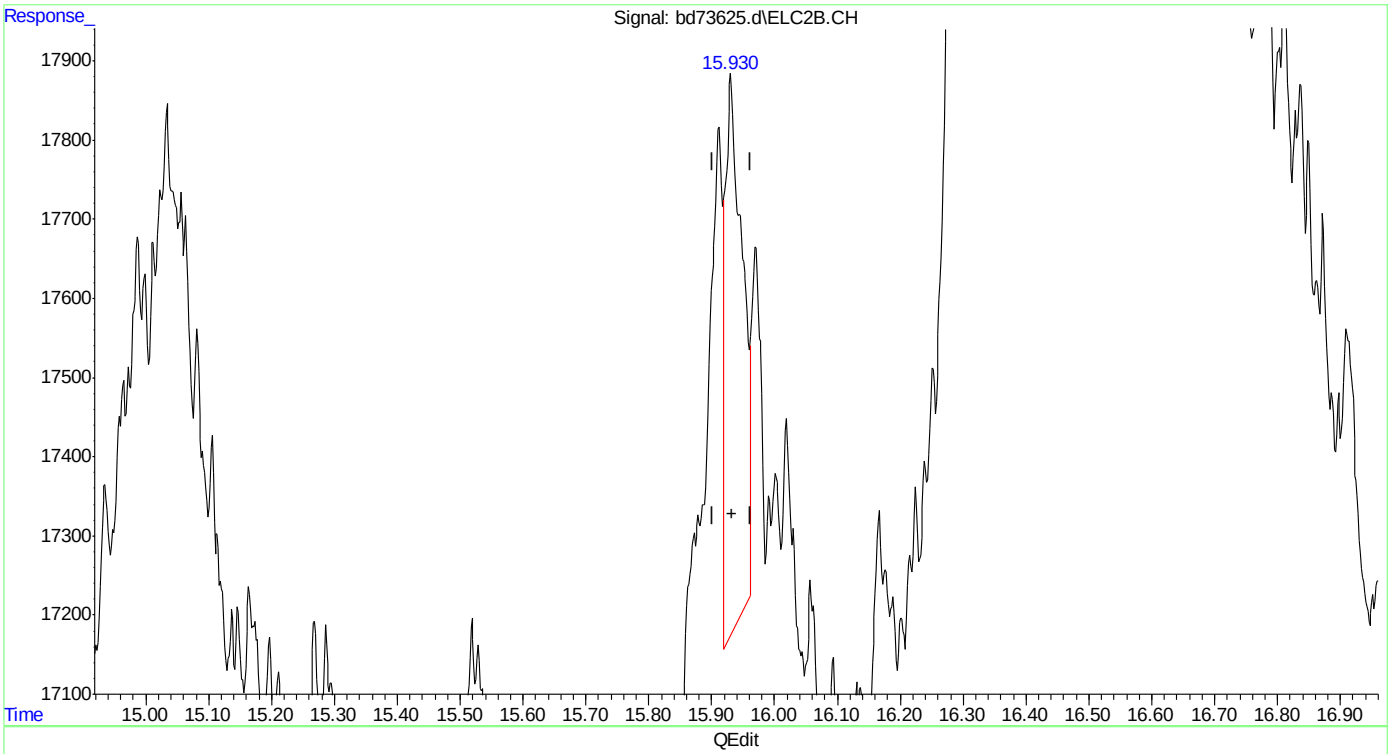
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:40:14 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:38:34 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2
15.931min 0.028 ppb
response 13537

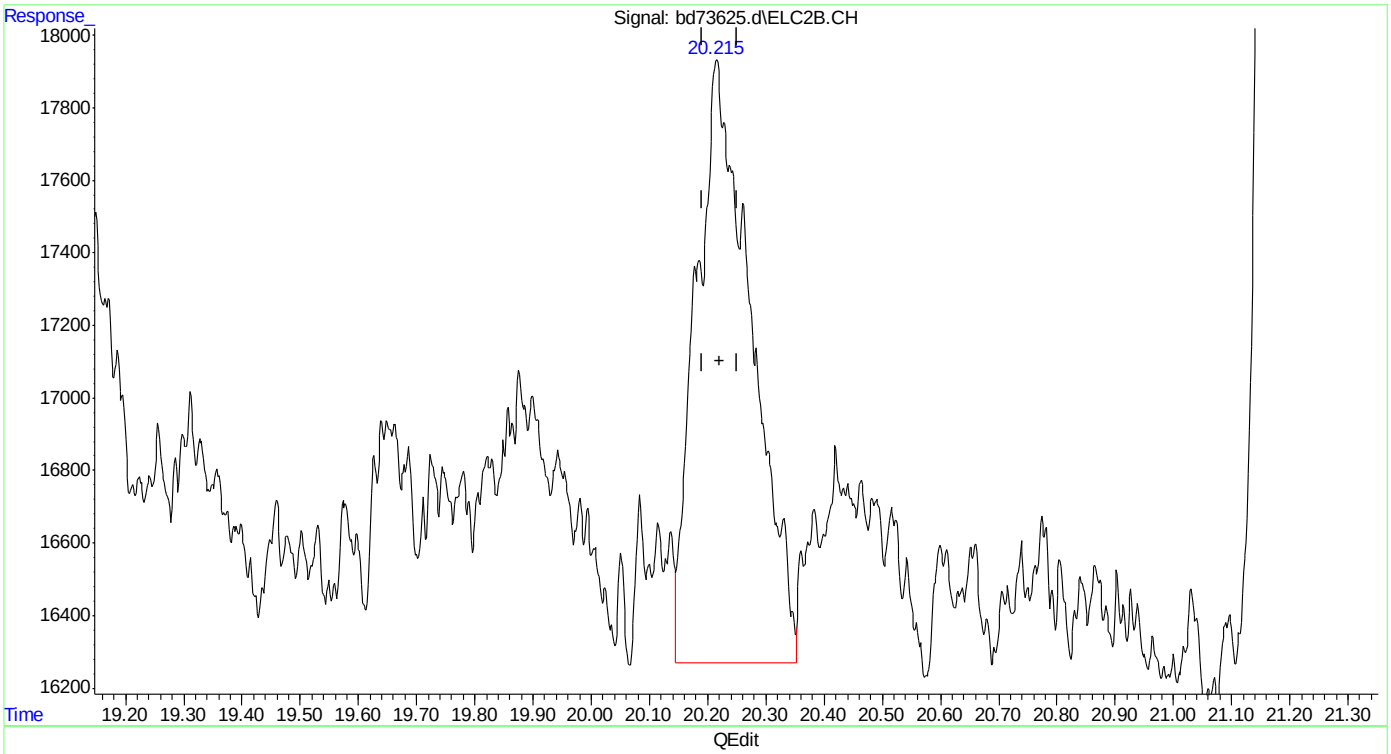
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:40:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:38:34 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) toluene #2
20.215min 0.242 ppb
response 109746

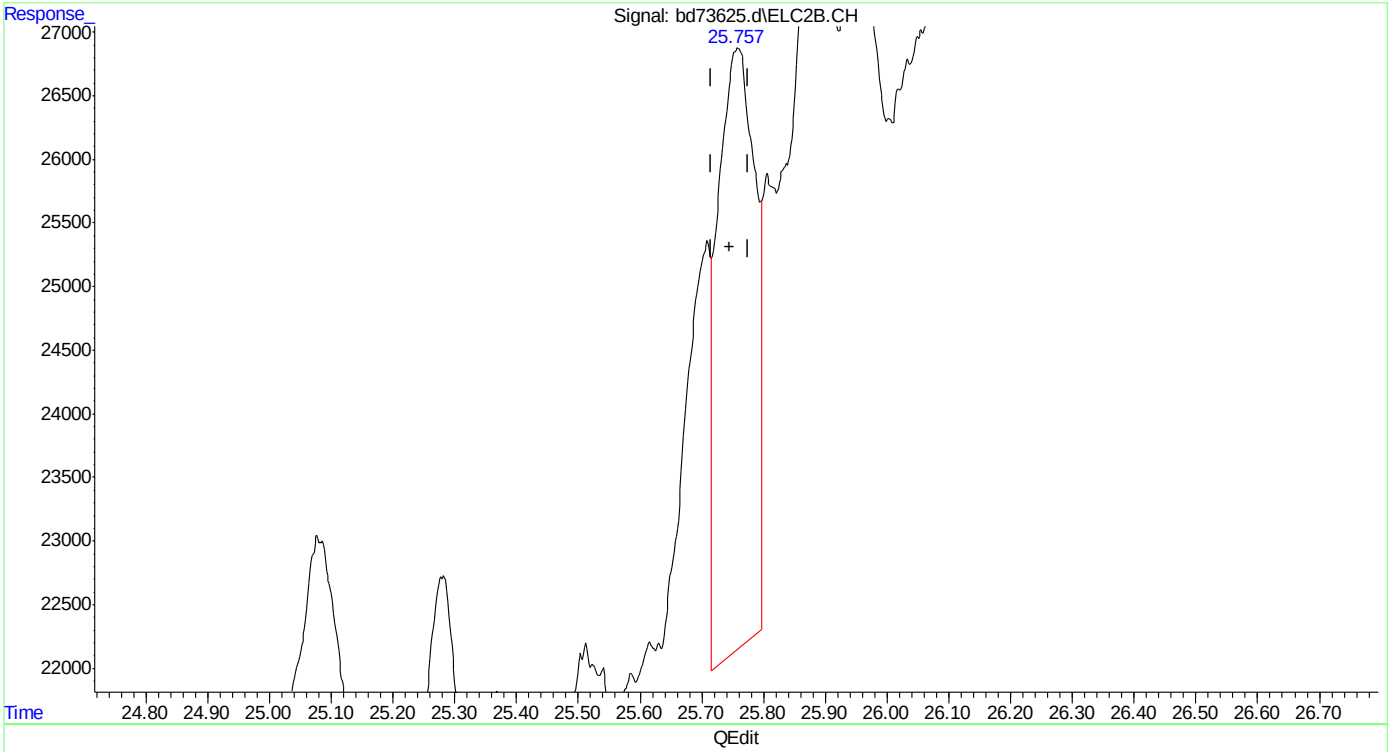
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:40:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:38:34 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.759min 0.398 ppb
response 195736

(+) = Expected Retention Time

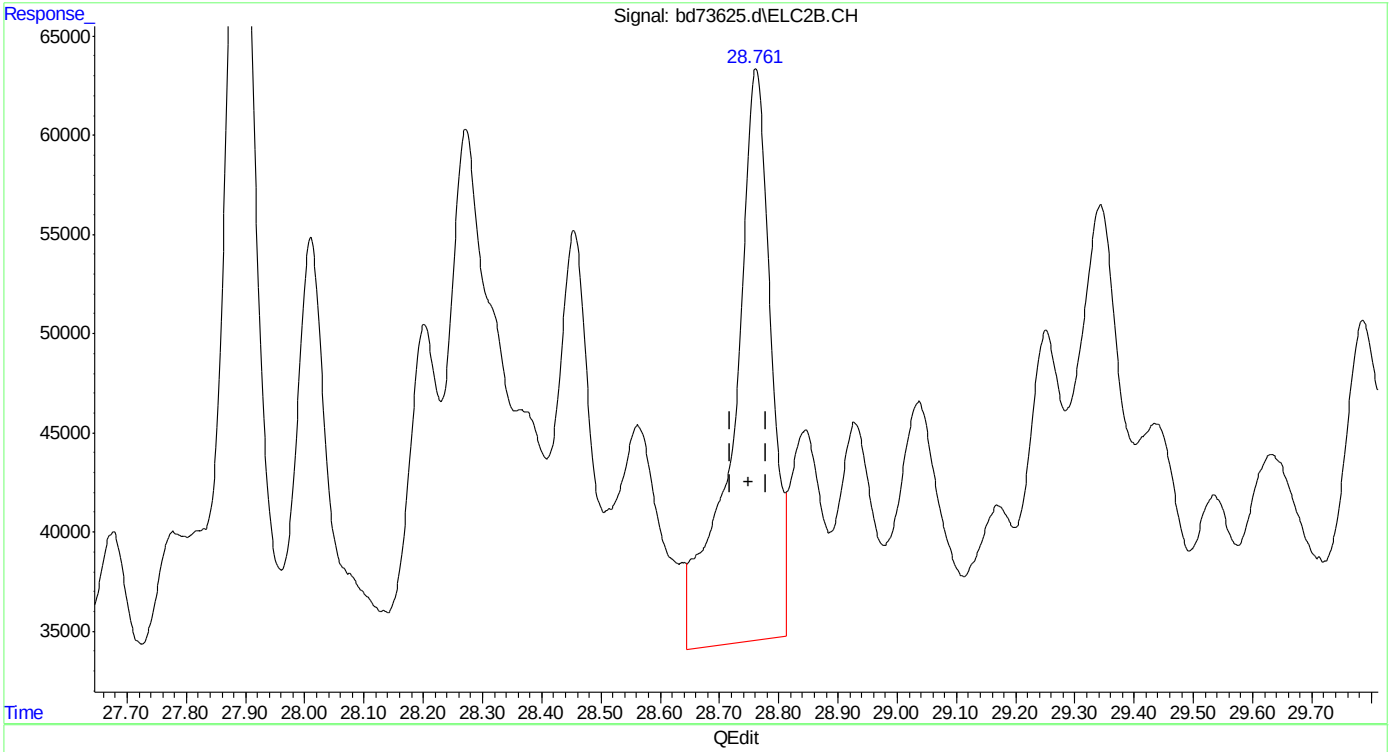
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:38:34 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.762min 4.034 ppb
response 1267117

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:42:12 2016

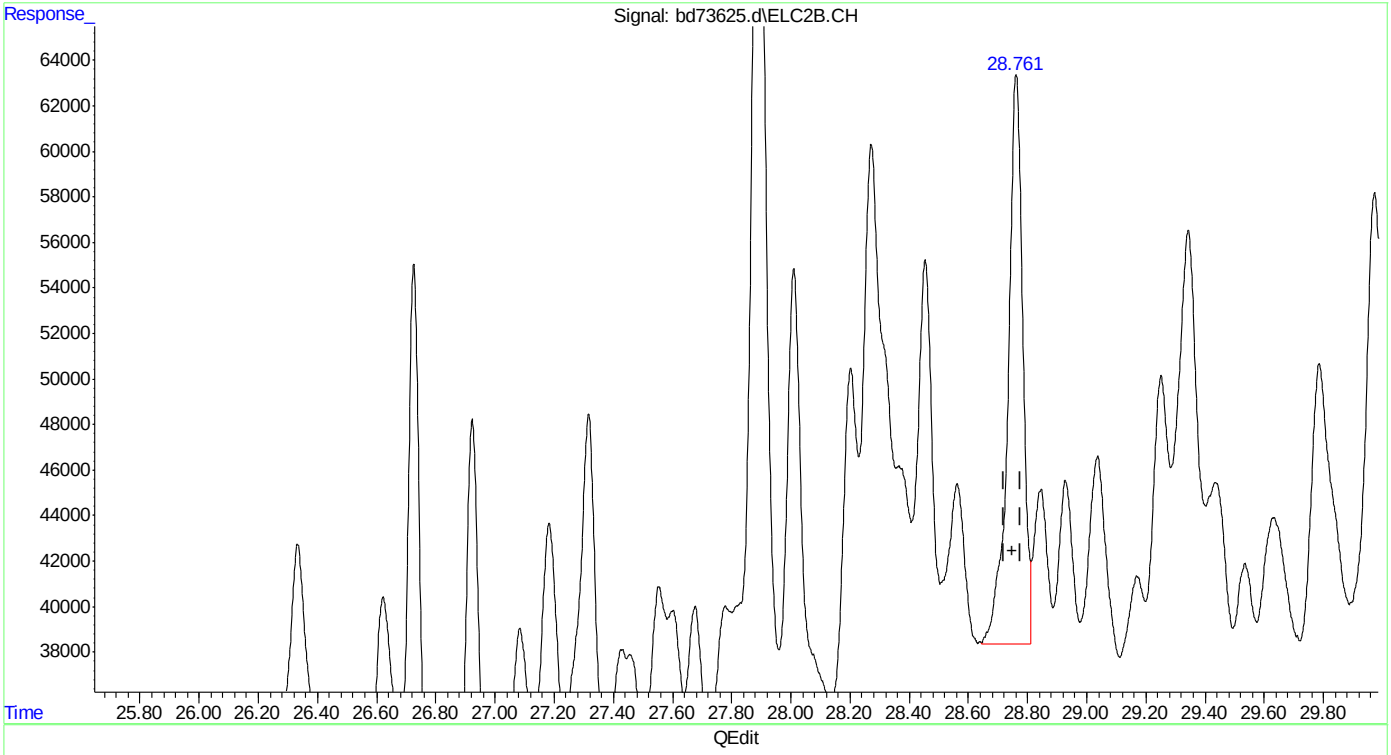
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73625.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 18:36:53
Operator : tonyf
Sample : mc45969-1,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:38:34 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.761min 2.947 ppb m
response 870639

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:42:29 2016

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/19/16 10:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:51:04 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.427	33764016	49.623	ppb	
Spiked Amount 50.000		Recovery = 99.25%			
6) s 2,3,4-trifluorotoluene	21.242	26927272	51.683	ppb	
Spiked Amount 50.000		Recovery = 103.37%			
16) s fluorobenzene #2	16.426	14097804	41.555	ppb	
Spiked Amount 50.000		Recovery = 83.11%			
18) s 2,3,4-trifluorotoluen...	21.242	8440160	42.875	ppb	
Spiked Amount 50.000		Recovery = 85.75%			
Target Compounds					
1) h rt5.5-7	7.470	3575552	5.797	ppb	m
2) h rt7/10	9.920	14052216	22.784	ppb	m
3) h rt10/13	15.200	7052150	11.434	ppb	m
8) h rt20/25	22.840	41013156	51.252	ppb	m
14) mtbe #2	10.684	6306632	40.923	ppb	m
19) ethylbenzene #2	23.177	712542	1.717	ppb	
20) m,p-xylene #2	23.315	286967	0.576	ppb	
21) o-xylene #2	24.040	109244	0.251	ppb	m
24) naphthalene #2	28.762	630265	2.287	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21186626	43.093	ppb	m

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

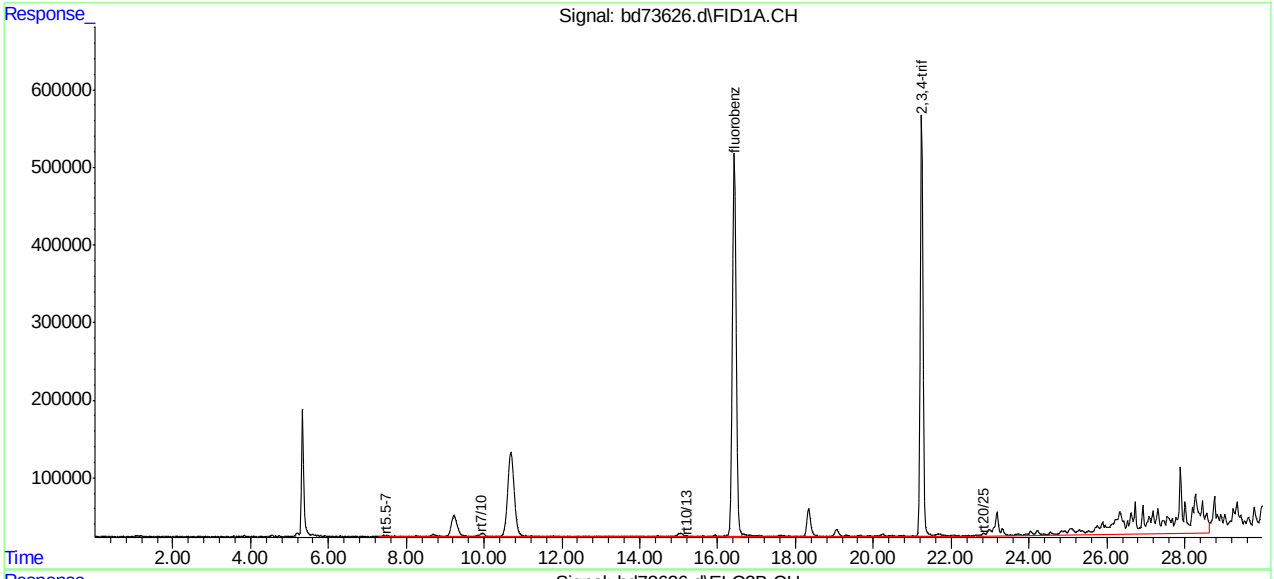
SGS ACCUTEST MC45969

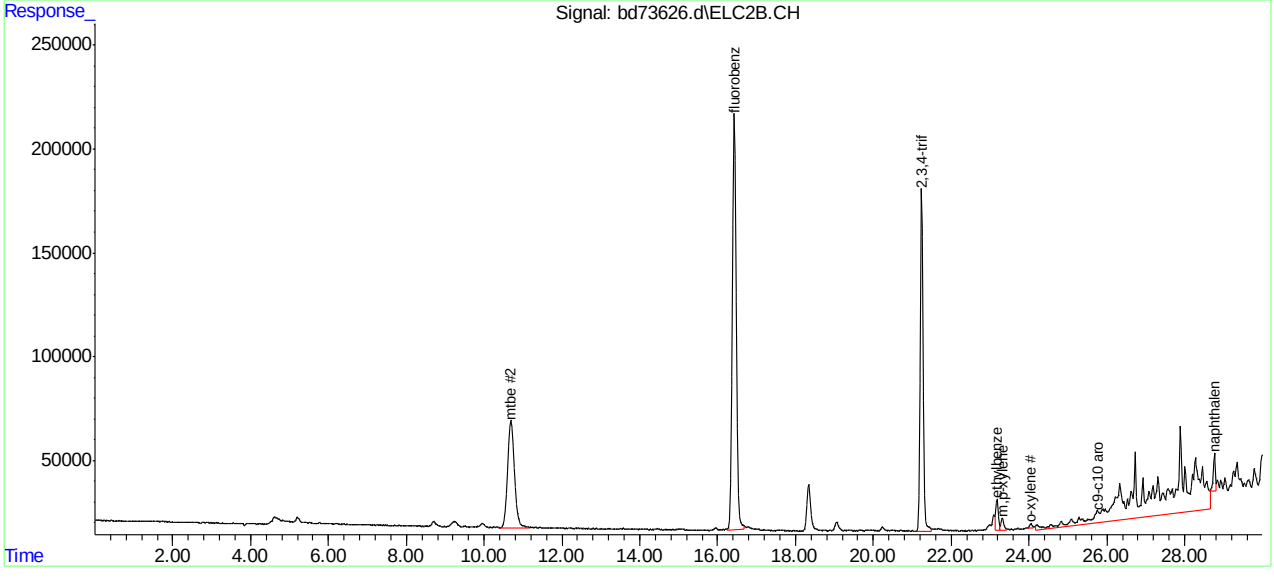
Quantitation Report (QT Reviewed)

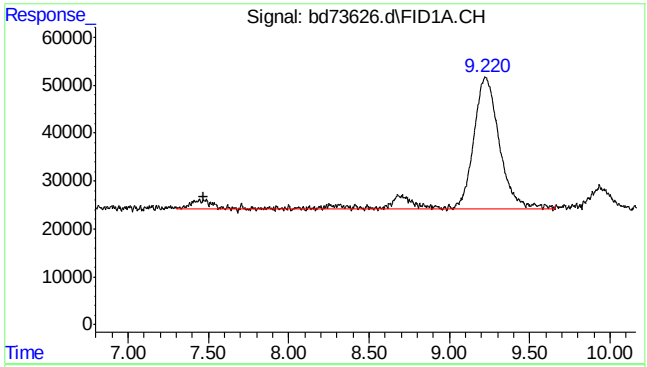
```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 19:15:31
Operator  : tonyf
Sample    : mc45969-2,w,vmavph,00
Misc      : gc26249,gbd3638,,,,5,1
ALS Vial  : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:51:04 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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

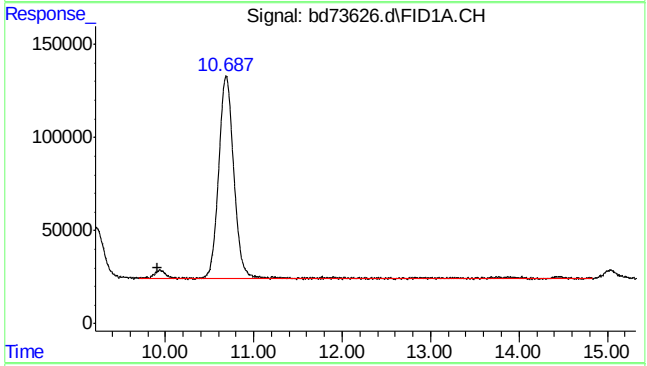






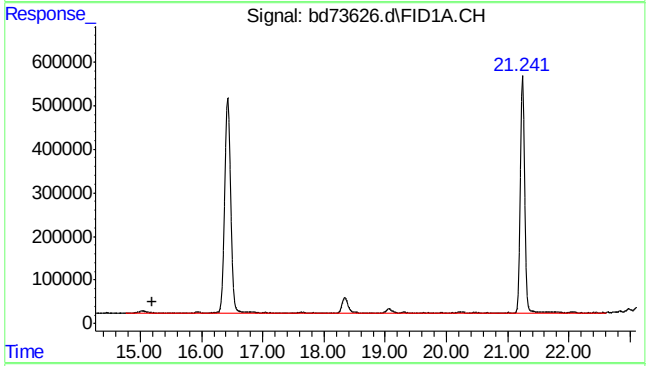
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 3575552
Conc: 5.80 ppb m



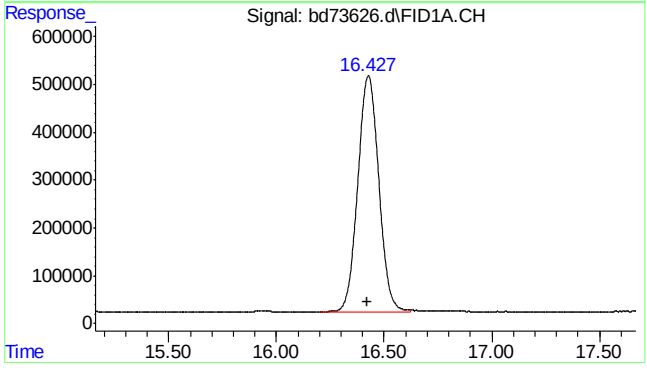
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 14052216
Conc: 22.78 ppb m



#3 rt10/13

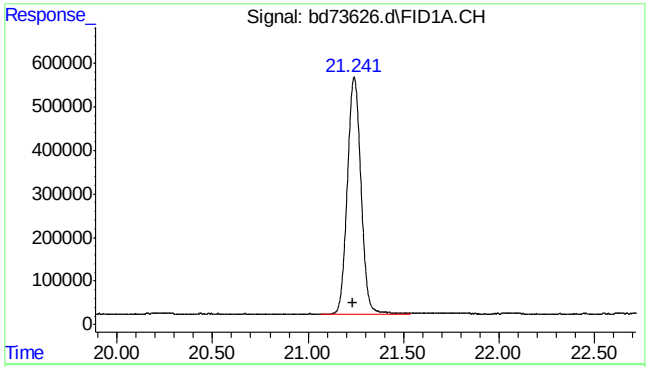
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 7052150
Conc: 11.43 ppb m



#4 fluorobenzene

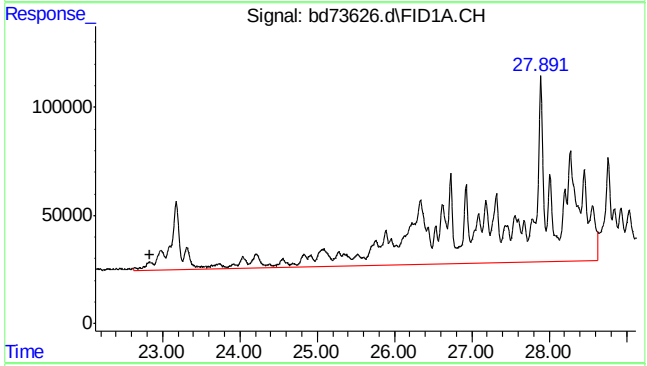
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33764016
Conc: 49.62 ppb

SGS ACCUTEST MC45969



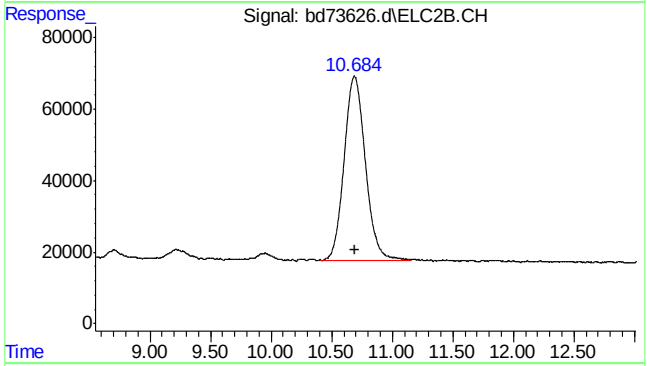
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26927272
Conc: 51.68 ppb



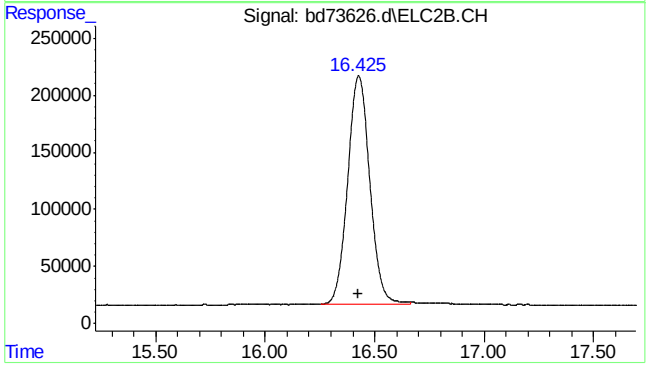
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 41013156
Conc: 51.25 ppb m



#14 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.012 min
Response: 6306632
Conc: 40.92 ppb m



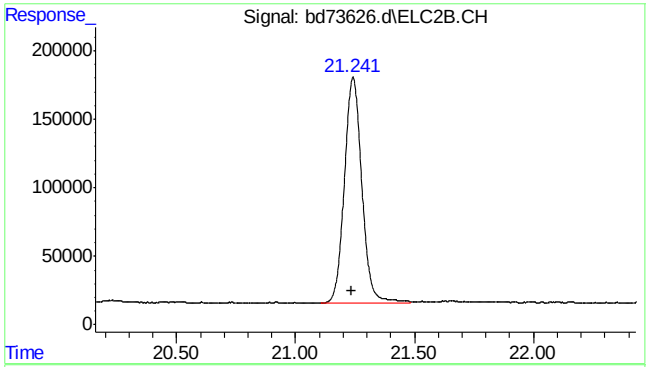
#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 14097804
Conc: 41.56 ppb

7.1.2

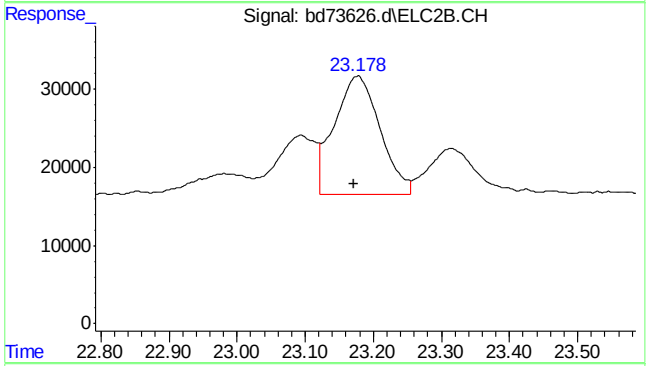
7

SGS ACCUTEST MC45969



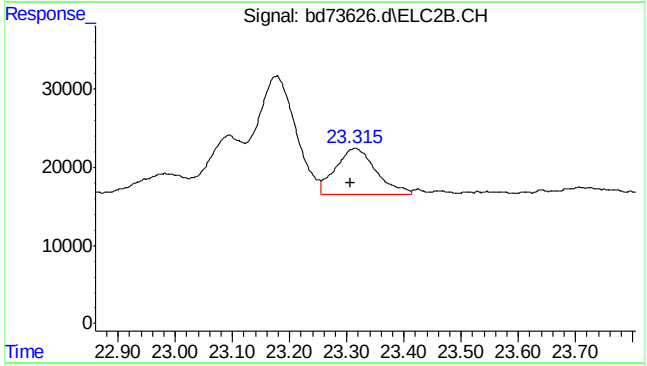
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8440160
Conc: 42.87 ppb



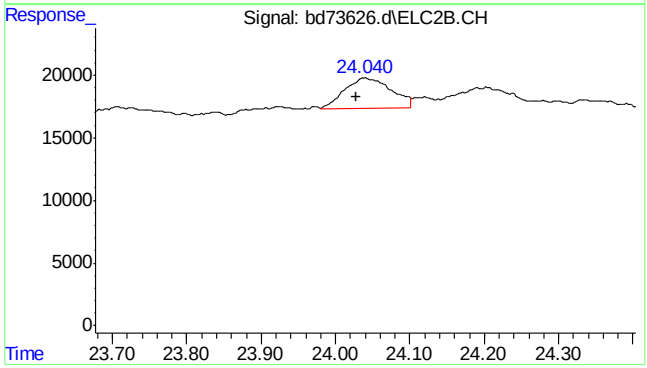
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 712542
Conc: 1.72 ppb



#20 m,p-xylene #2

R.T.: 23.315 min
Delta R.T.: 0.008 min
Response: 286967
Conc: 0.58 ppb



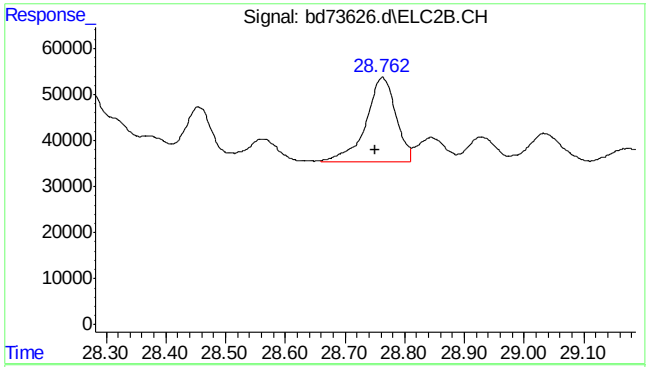
#21 o-xylene #2

R.T.: 24.040 min
Delta R.T.: 0.012 min
Response: 109244
Conc: 0.25 ppb m

7.1.2

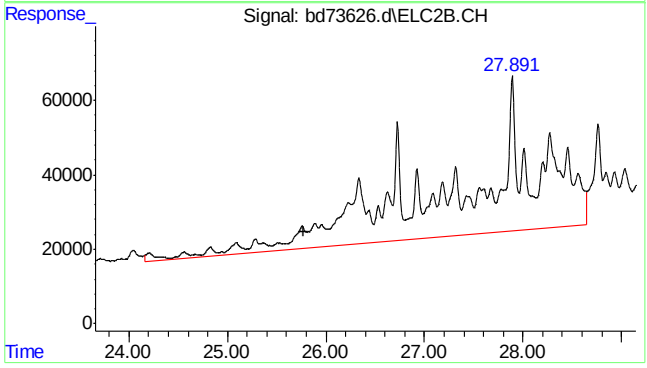
7

SGS ACCUTEST MC45969



#24 naphthalene #2

```
      R.T.:   28.762 min
Delta R.T.:    0.012 min
  Response:    630265
      Conc:   2.29 ppb m
```



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

```
      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response:  21186626
      Conc:  43.09 ppb m
```

7.1.2

7

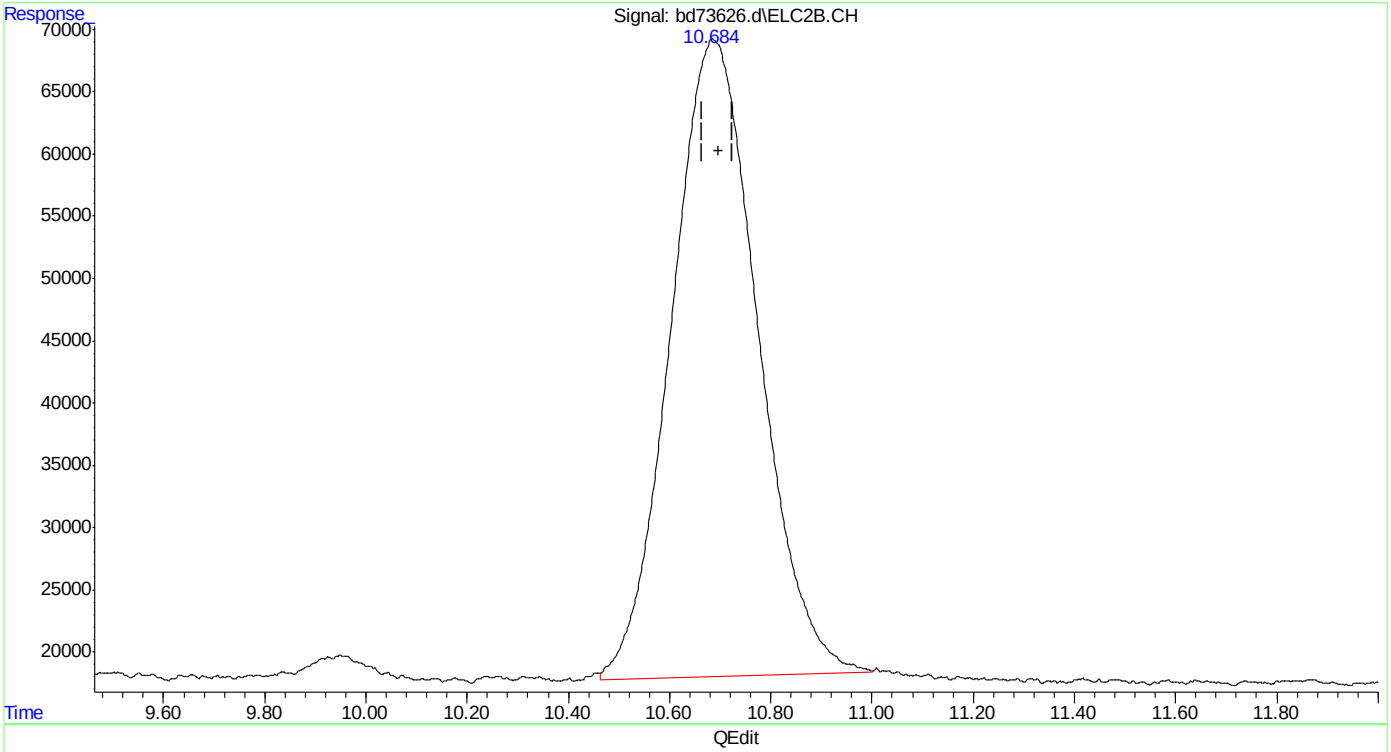
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.685min 39.641 ppb
response 6108928

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:02 2016

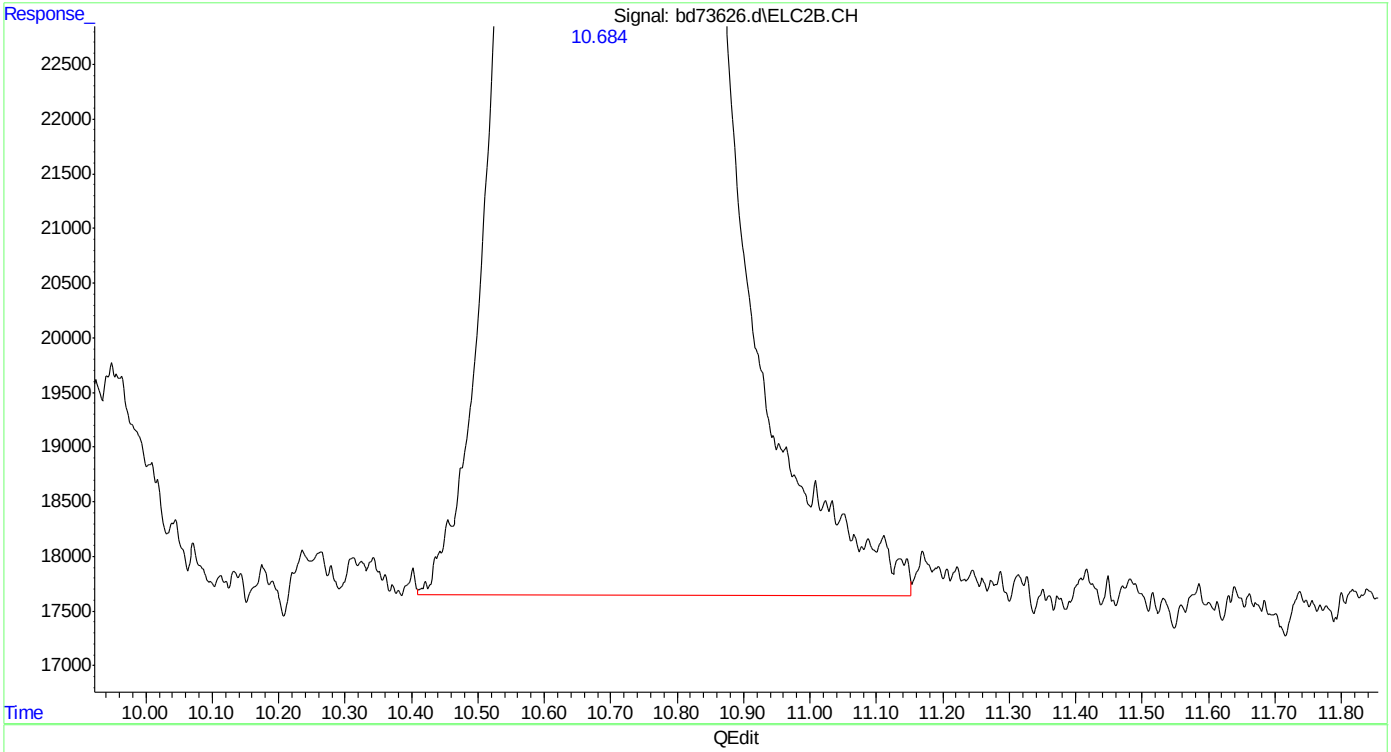
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.684min 40.923 ppb m
response 6306632

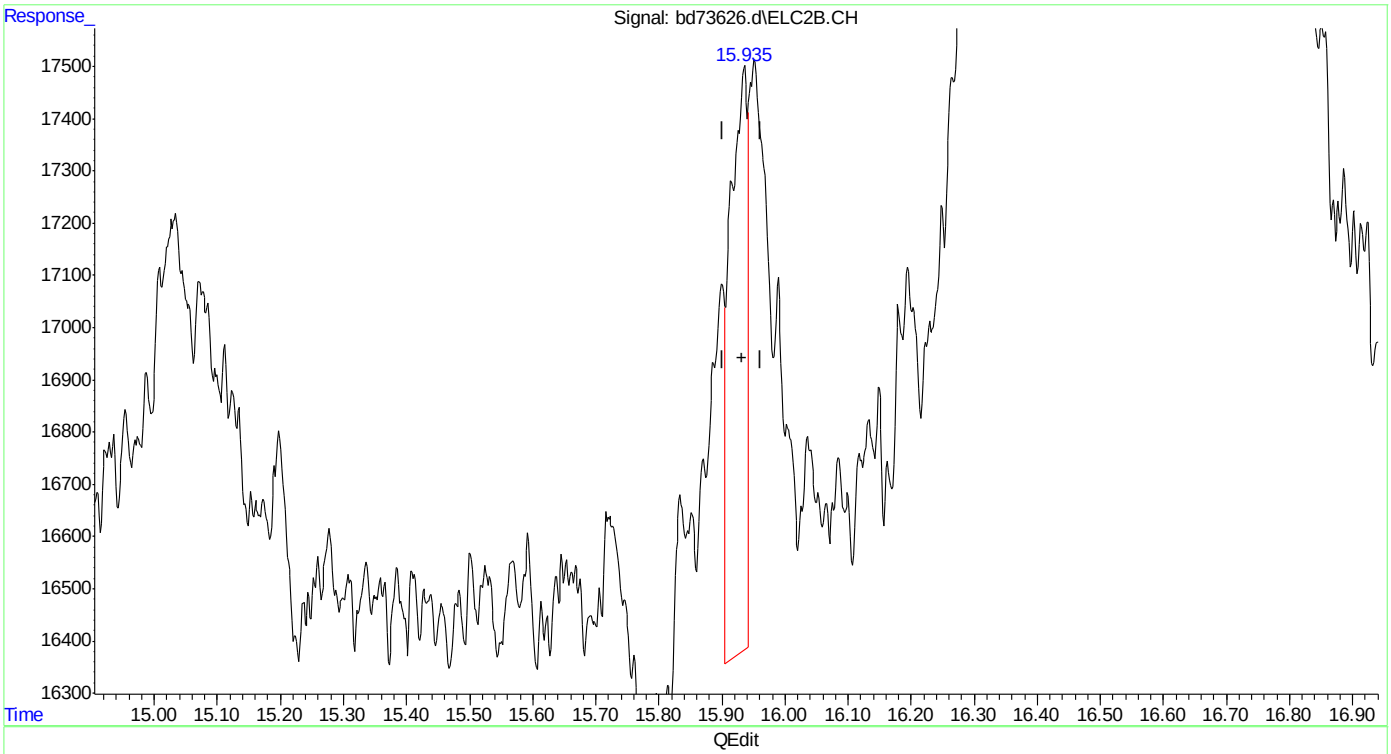
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2
15.935min 0.043 ppb
response 20588

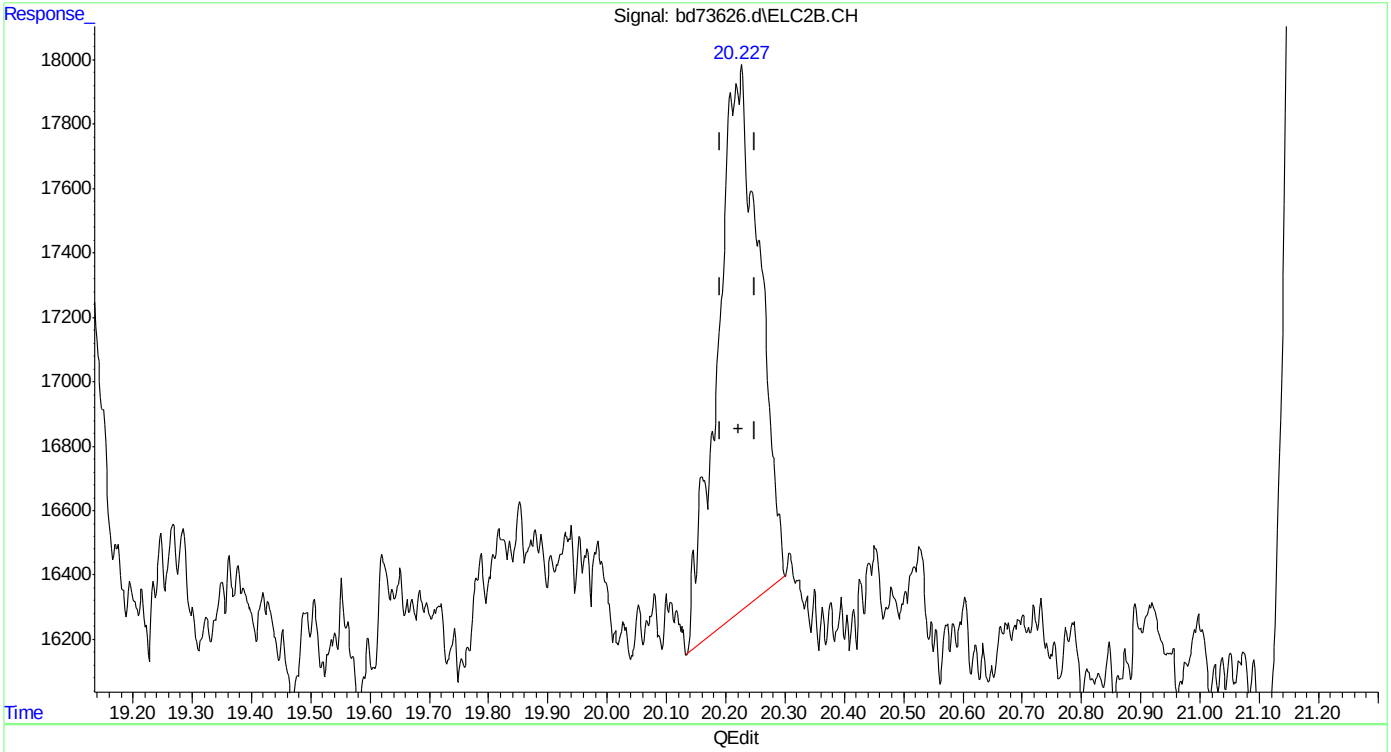
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) toluene #2
20.227min 0.183 ppb
response 83007

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:17 2016

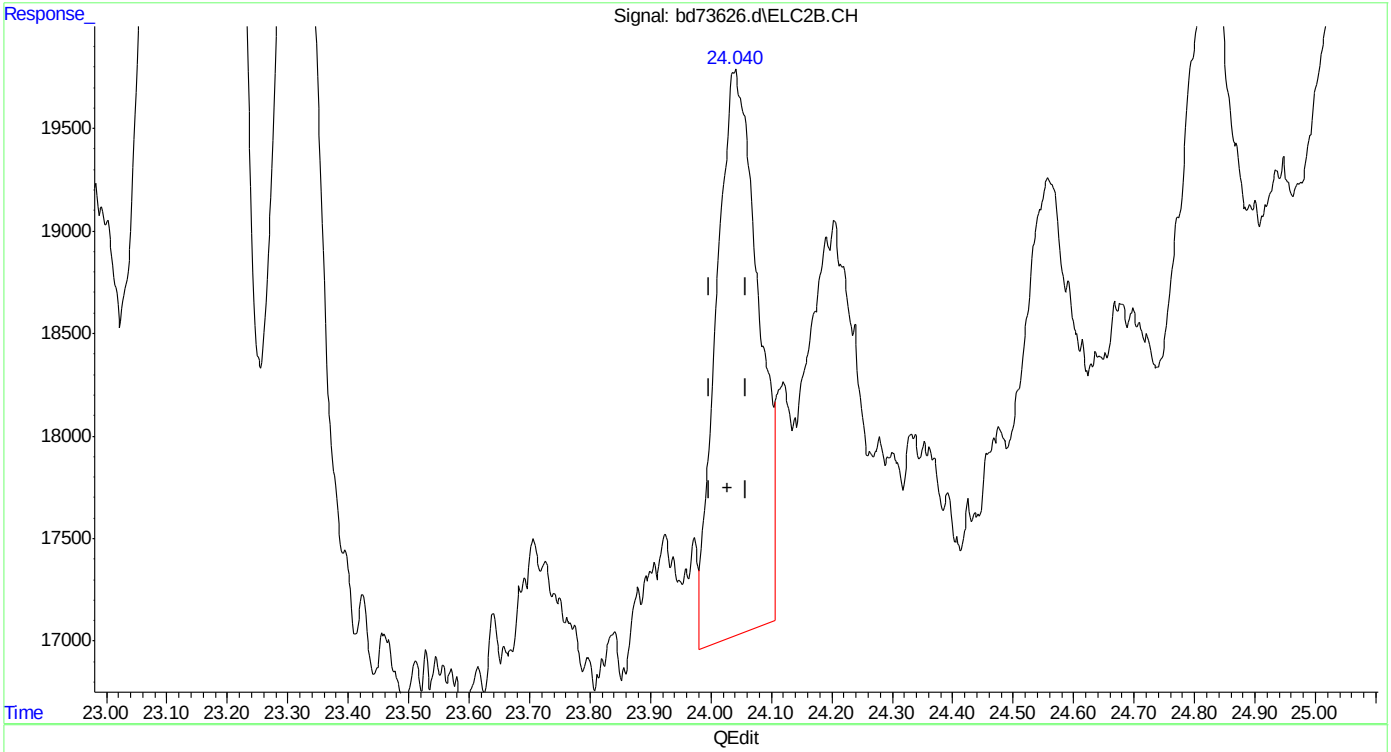
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
24.039min 0.305 ppb
response 132515

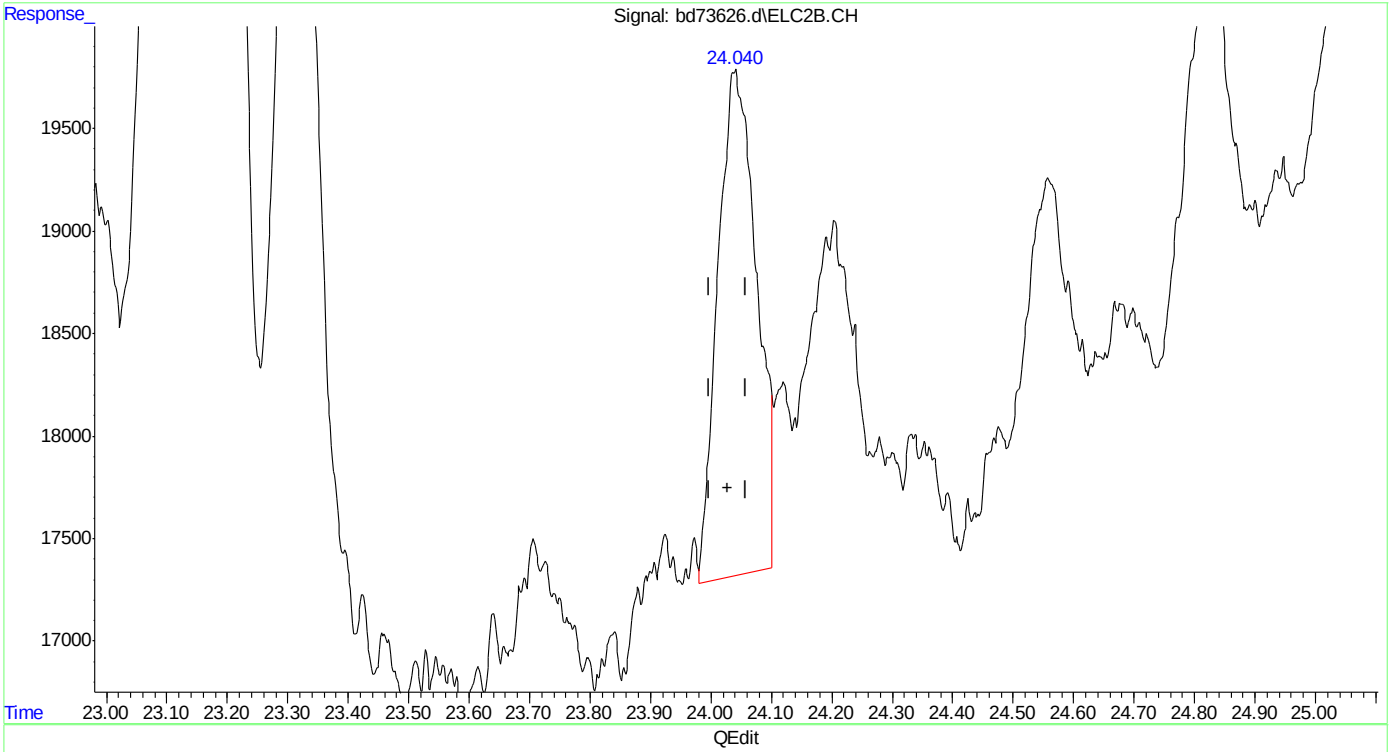
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
24.040min 0.251 ppb m
response 109244

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:34 2016

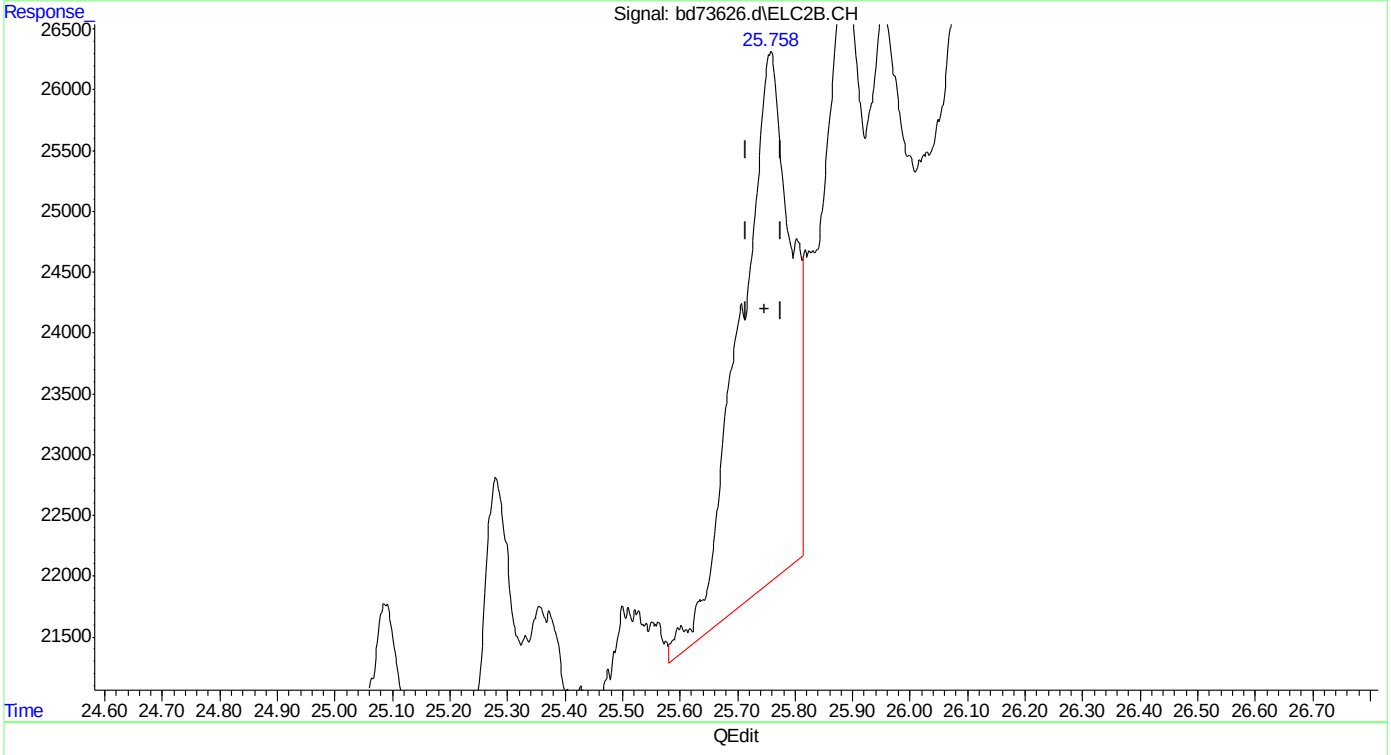
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.758min 0.541 ppb
response 265873

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:40 2016

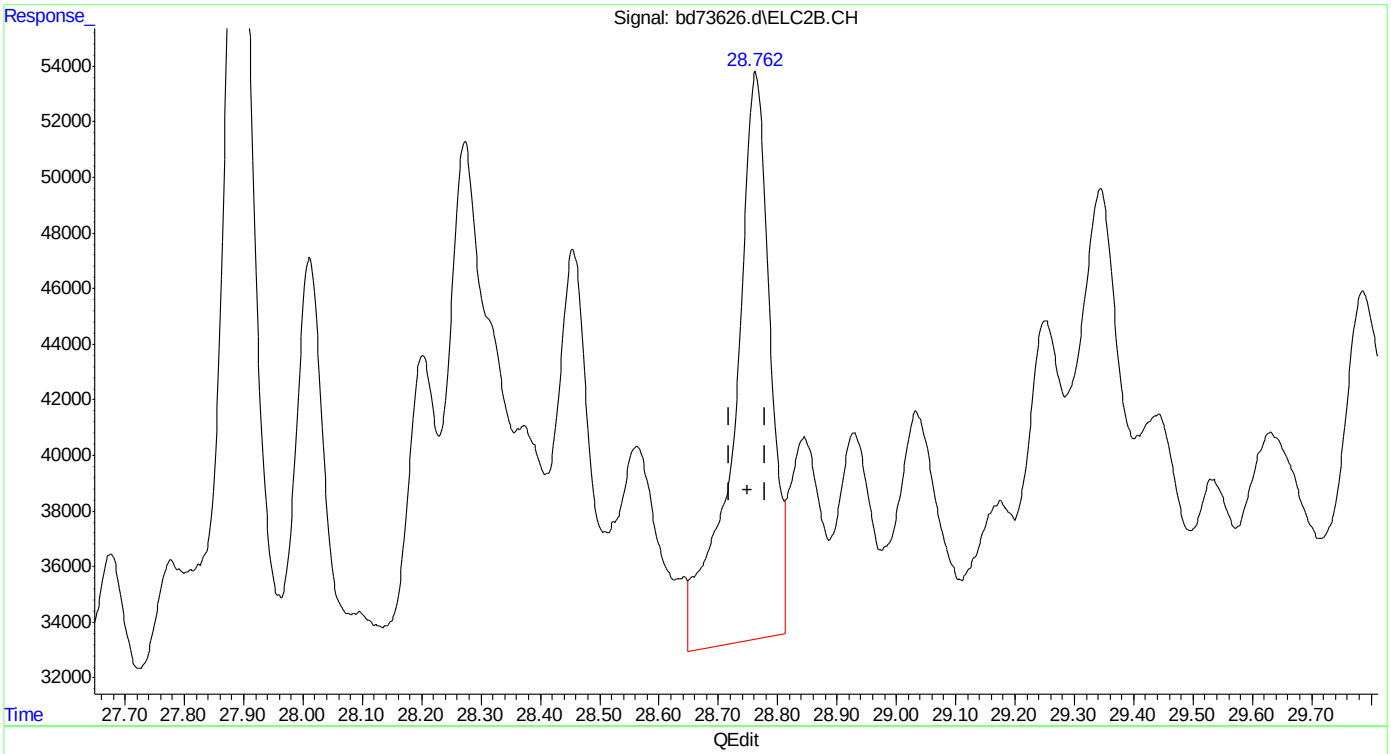
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.763min 2.906 ppb
response 855758

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:46 2016

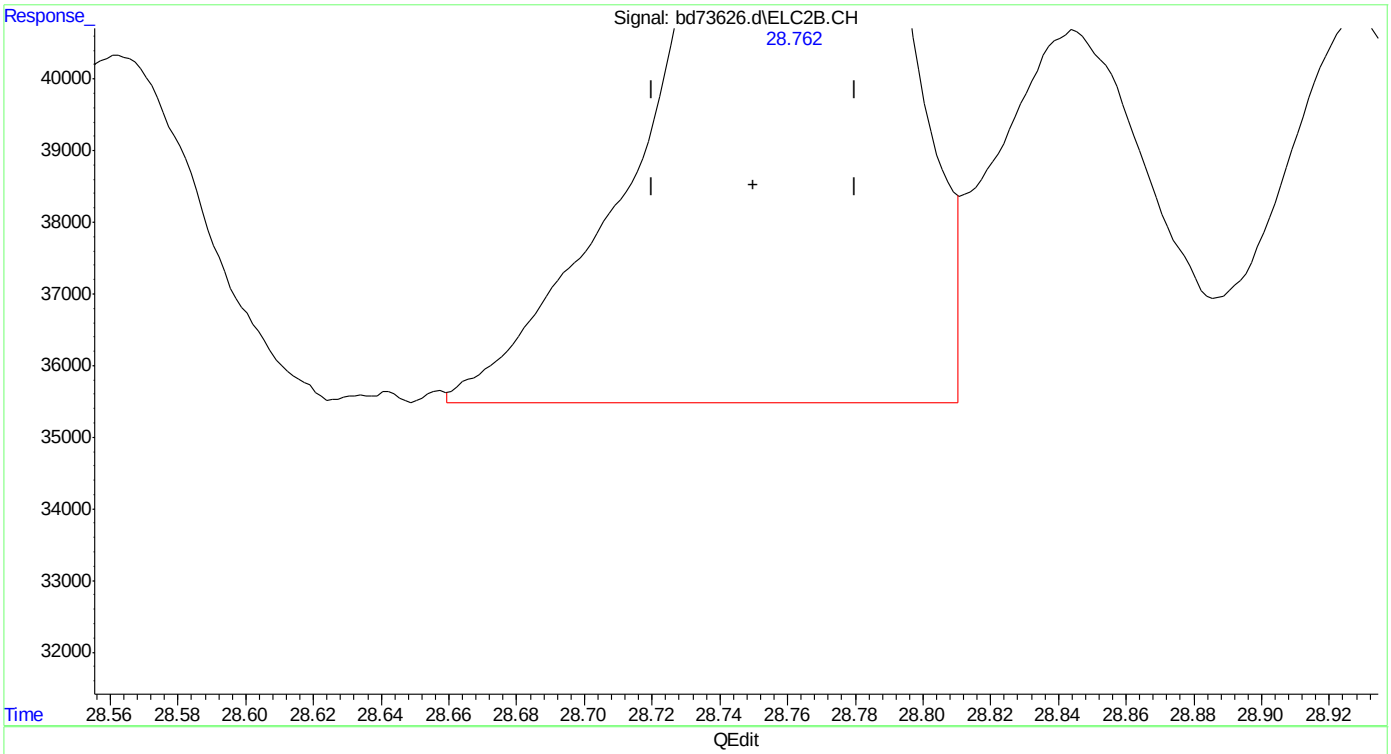
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73626.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:15:31
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:50 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.762min 2.287 ppb m
response 630265

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:50:57 2016

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/19/16 10:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-3,w,vmavph,00 (Sig #1); mc45969-2,w,vmavph,00 (Sig #2)
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:53:13 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.426	33672491	49.489	ppb	
Spiked Amount 50.000		Recovery =	98.98%		
6) s 2,3,4-trifluorotoluene	21.241	27160342	52.131	ppb	
Spiked Amount 50.000		Recovery =	104.26%		
16) s fluorobenzene #2	16.425	14004251	41.280	ppb	
Spiked Amount 50.000		Recovery =	82.56%		
18) s 2,3,4-trifluorotoluen...	21.241	8452728	42.939	ppb	
Spiked Amount 50.000		Recovery =	85.88%		
Target Compounds					
1) h rt5.5-7	7.470	4474438	7.255	ppb	m
2) h rt7/10	9.920	8167756	13.243	ppb	m
3) h rt10/13	15.200	11590722	18.793	ppb	m
8) h rt20/25	22.840	20427707	25.527	ppb	m
14) mtbe #2	10.683	3442770	22.340	ppb	m
19) ethylbenzene #2	23.176	506209	1.220	ppb	
20) m,p-xylene #2	23.312	284768	0.571	ppb	
21) o-xylene #2	24.037	113235	0.260	ppb	m
24) naphthalene #2	28.761	349090	1.516	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	12495892	25.416	ppb	m

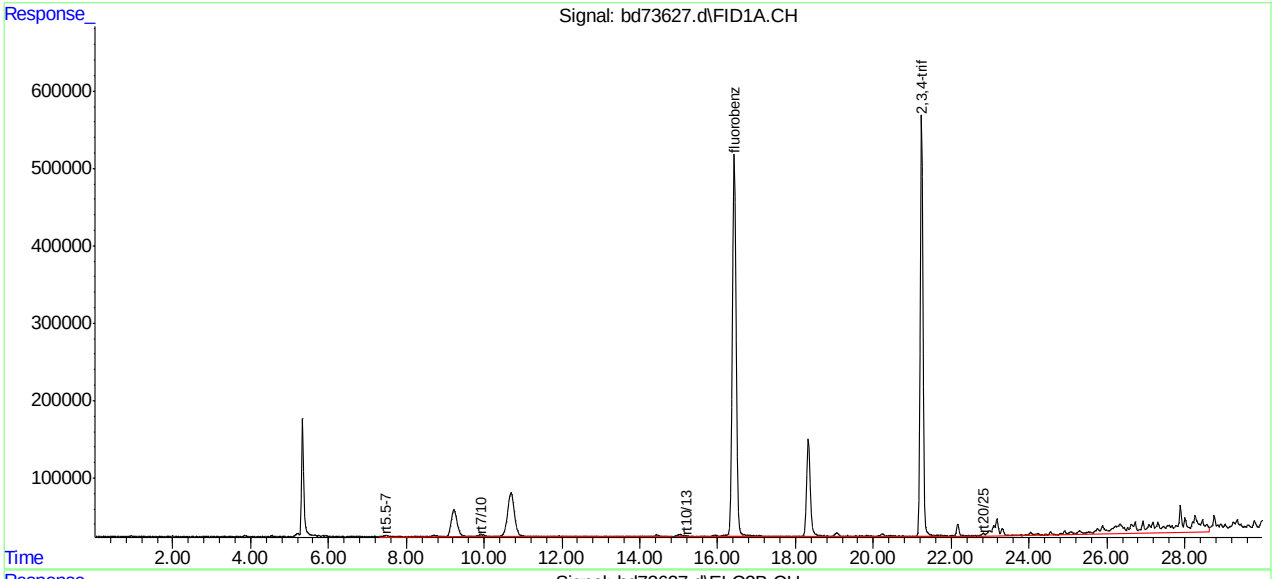
(f)=RT Delta > 1/2 Window (m)=manual int.

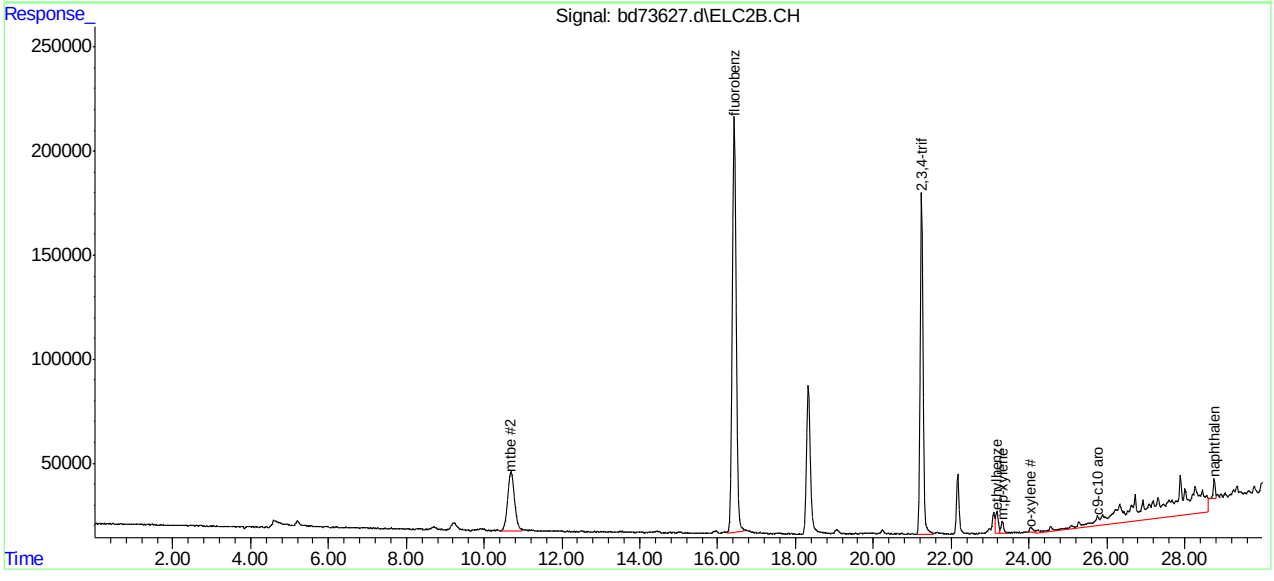
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-3,w,vmavph,00 (Sig #1); mc45969-2,w,vmavph,00 (Sig #2)
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

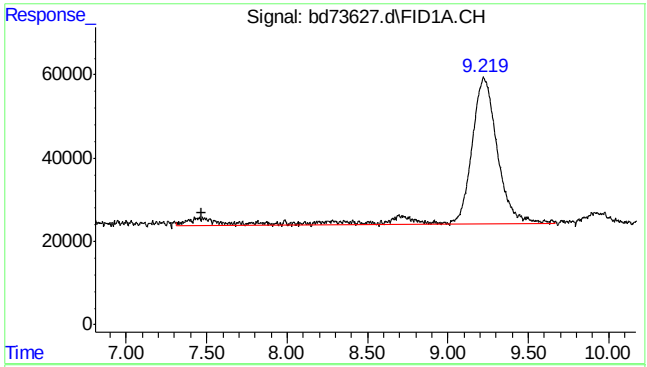
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 08:53:13 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



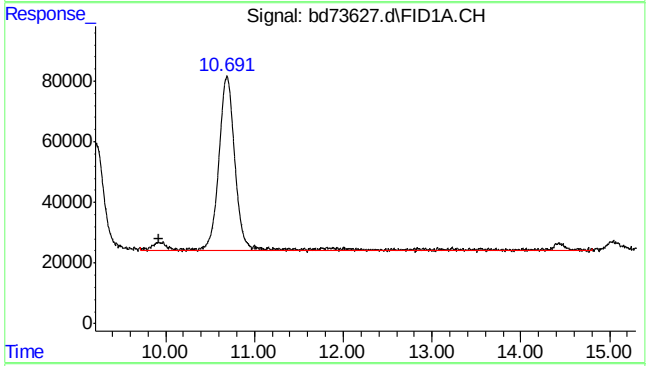


SGS ACCUTEST MC45969



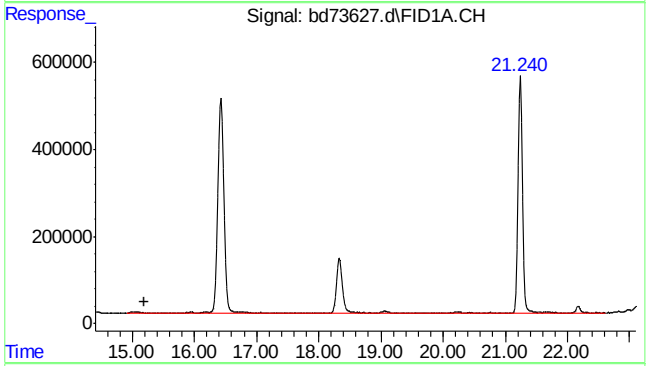
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 4474438
Conc: 7.25 ppb m



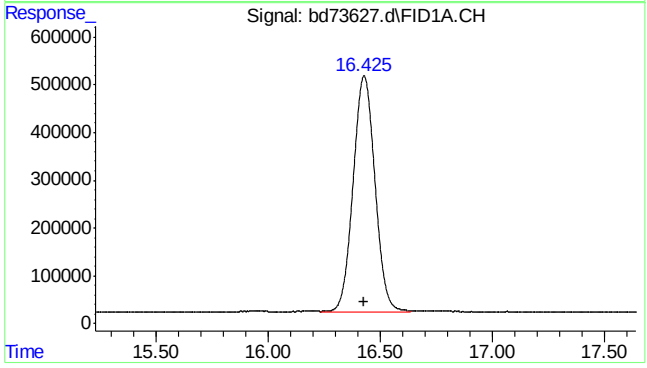
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 8167756
Conc: 13.24 ppb m



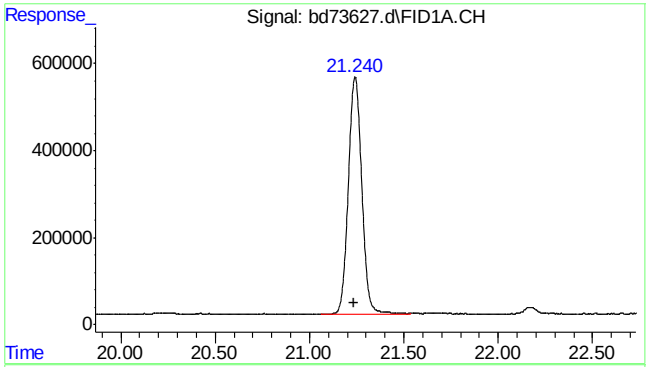
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 11590722
Conc: 18.79 ppb m



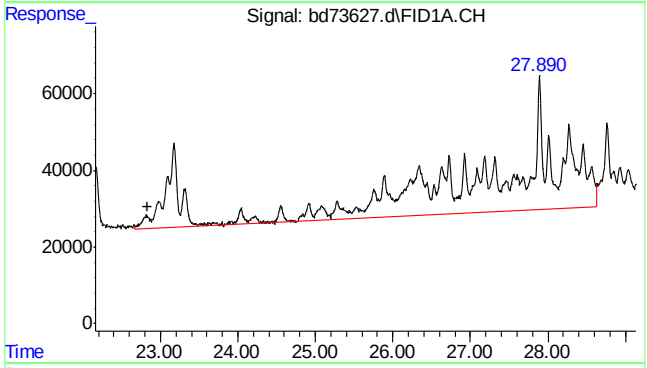
#4 fluorobenzene

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 33672491
Conc: 49.49 ppb



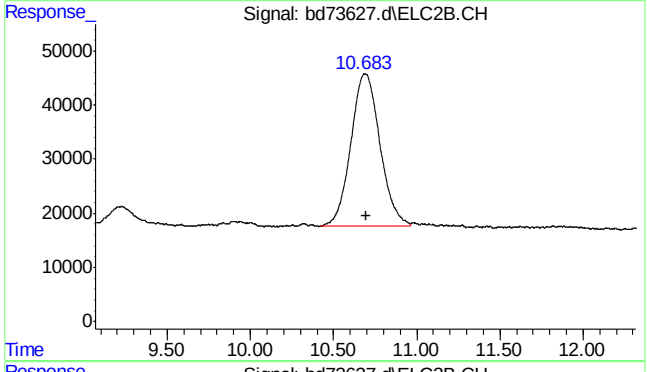
#6 2,3,4-trifluorotoluene

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 27160342
Conc: 52.13 ppb



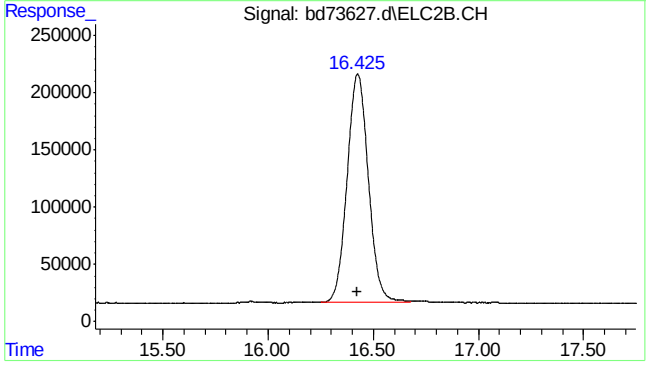
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 20427707
Conc: 25.53 ppb m



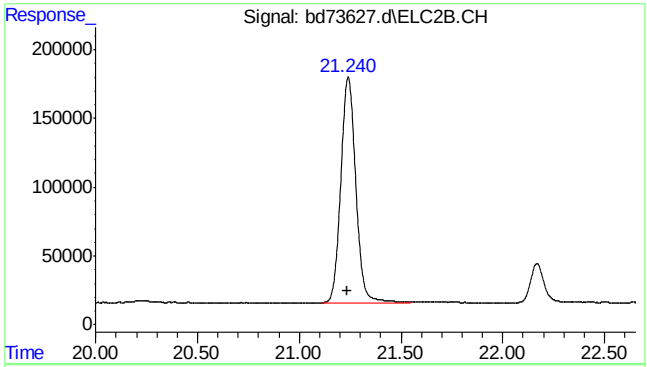
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 3442770
Conc: 22.34 ppb m



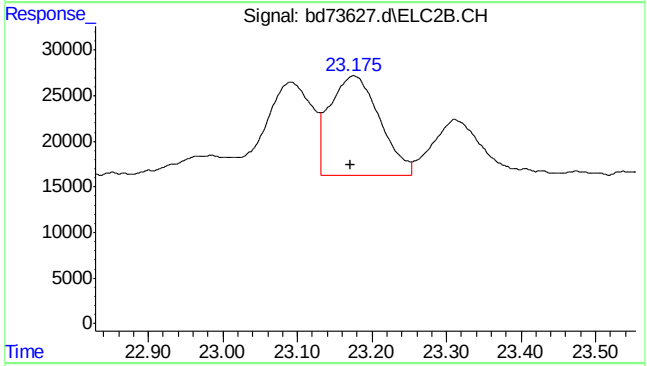
#16 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 14004251
Conc: 41.28 ppb



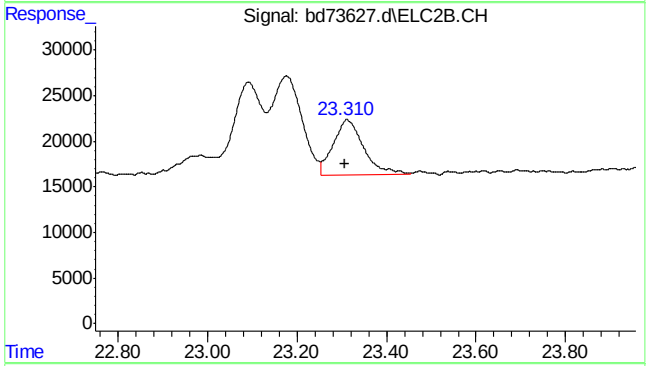
#18 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 8452728
Conc: 42.94 ppb



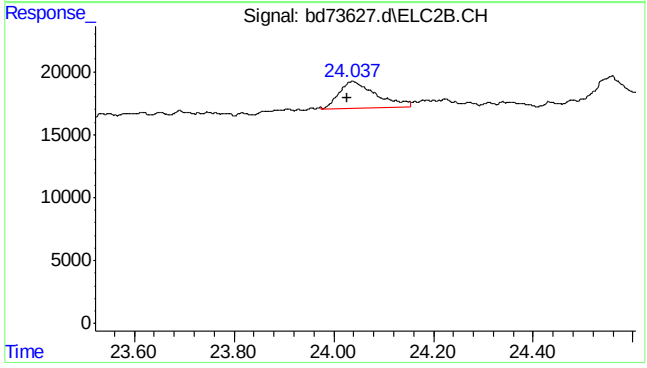
#19 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: 0.004 min
Response: 506209
Conc: 1.22 ppb



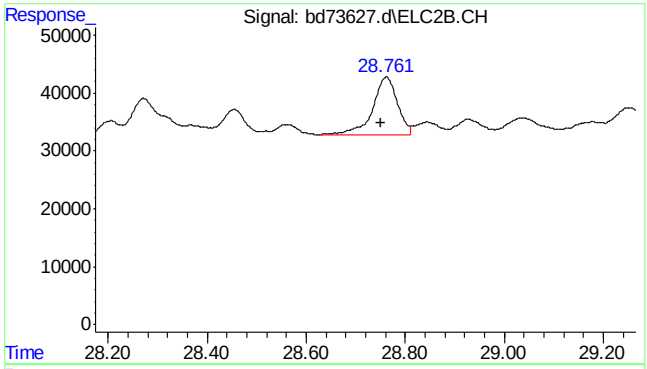
#20 m,p-xylene #2

R.T.: 23.312 min
Delta R.T.: 0.005 min
Response: 284768
Conc: 0.57 ppb



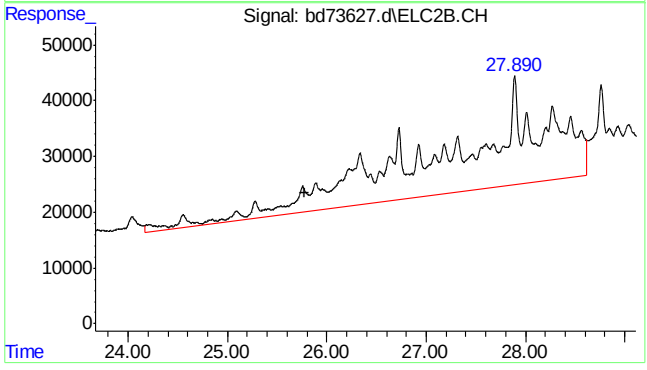
#21 o-xylene #2

R.T.: 24.037 min
Delta R.T.: 0.009 min
Response: 113235
Conc: 0.26 ppb m



#24 naphthalene #2

R.T.: 28.761 min
Delta R.T.: 0.011 min
Response: 349090
Conc: 1.52 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 12495892
Conc: 25.42 ppb m

7.1.3

7

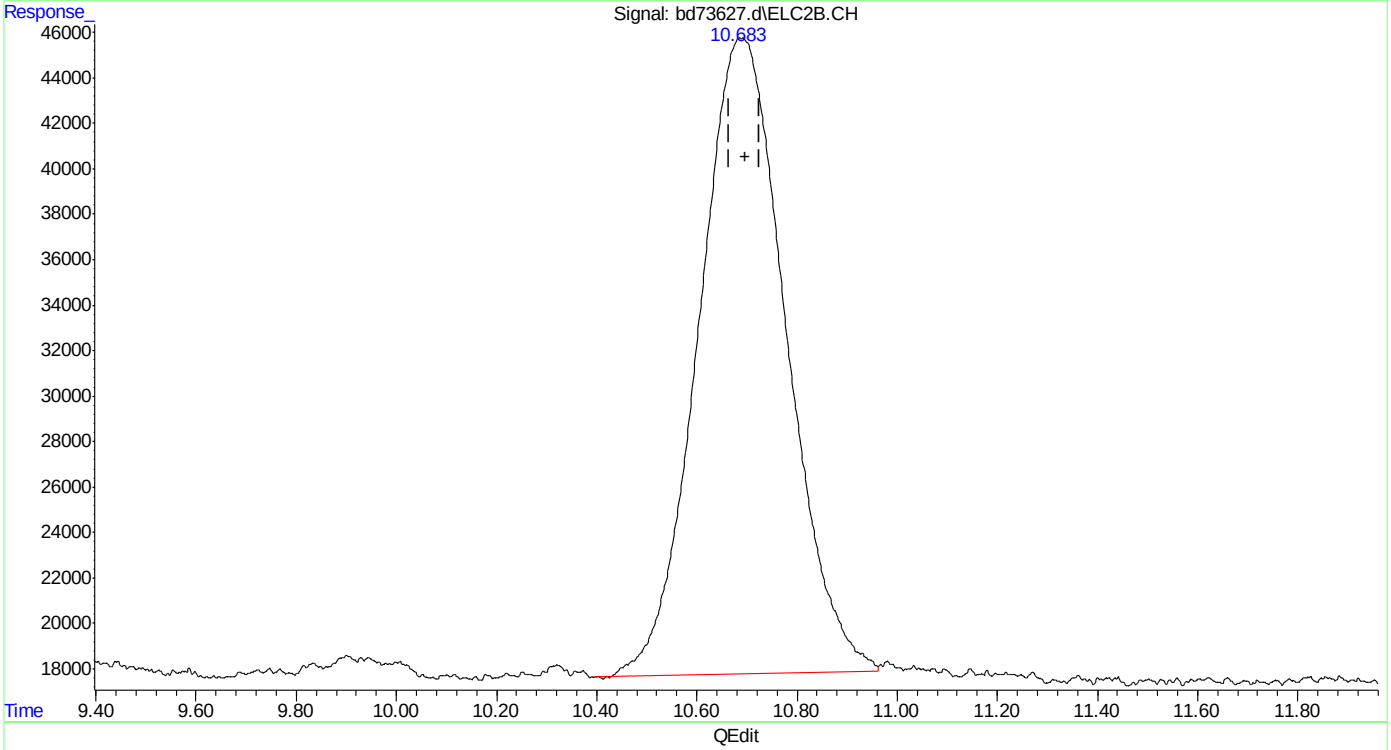
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.685min 21.986 ppb
response 3388204

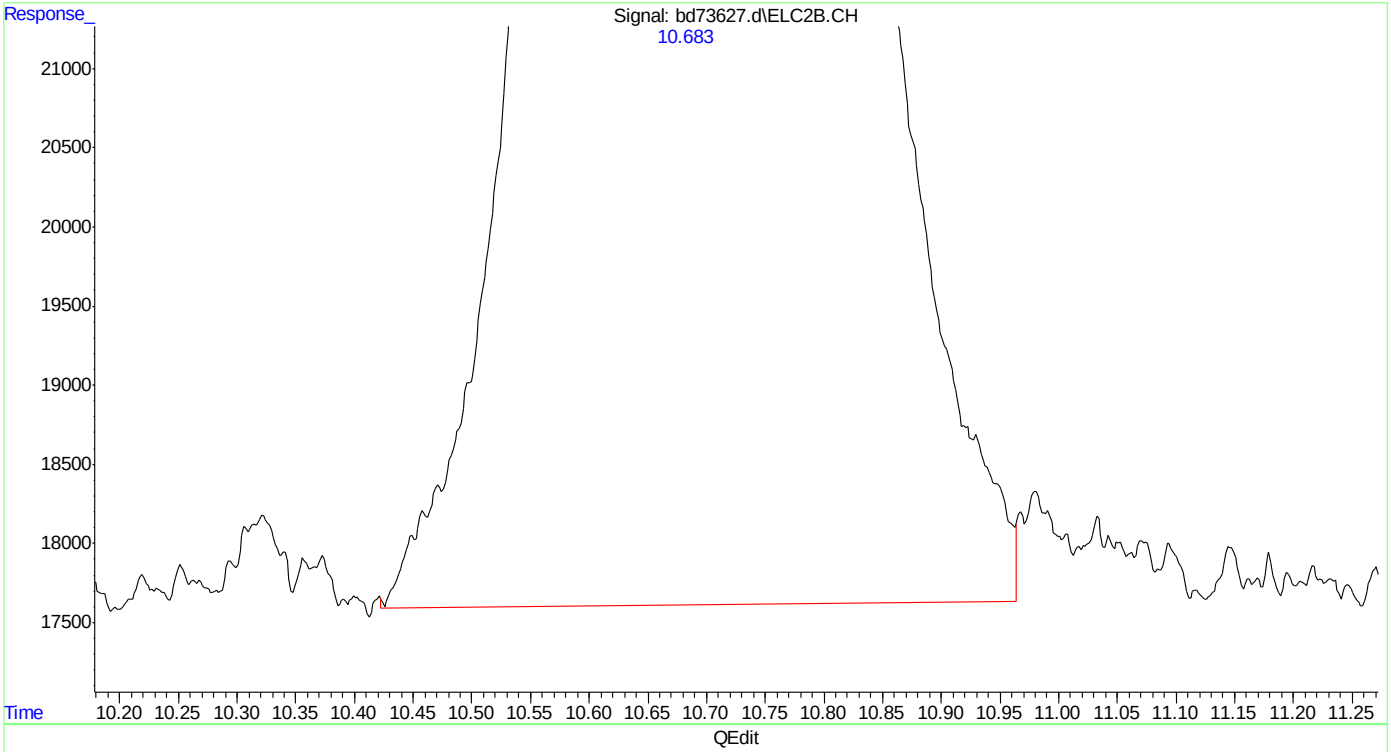
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:51:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.683min 22.340 ppb m
response 3442770

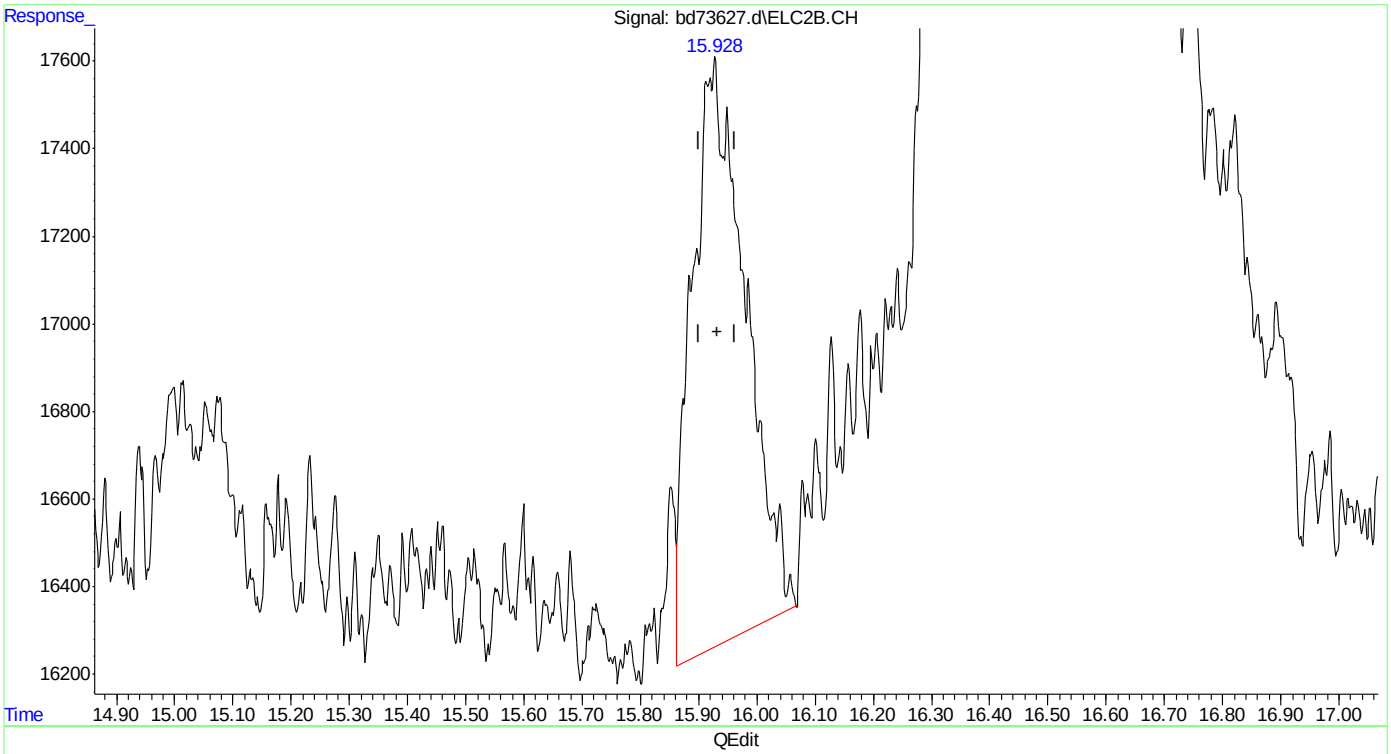
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:51:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(15) benzene #2
15.928min 0.177 ppb
response 85450

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:52:04 2016

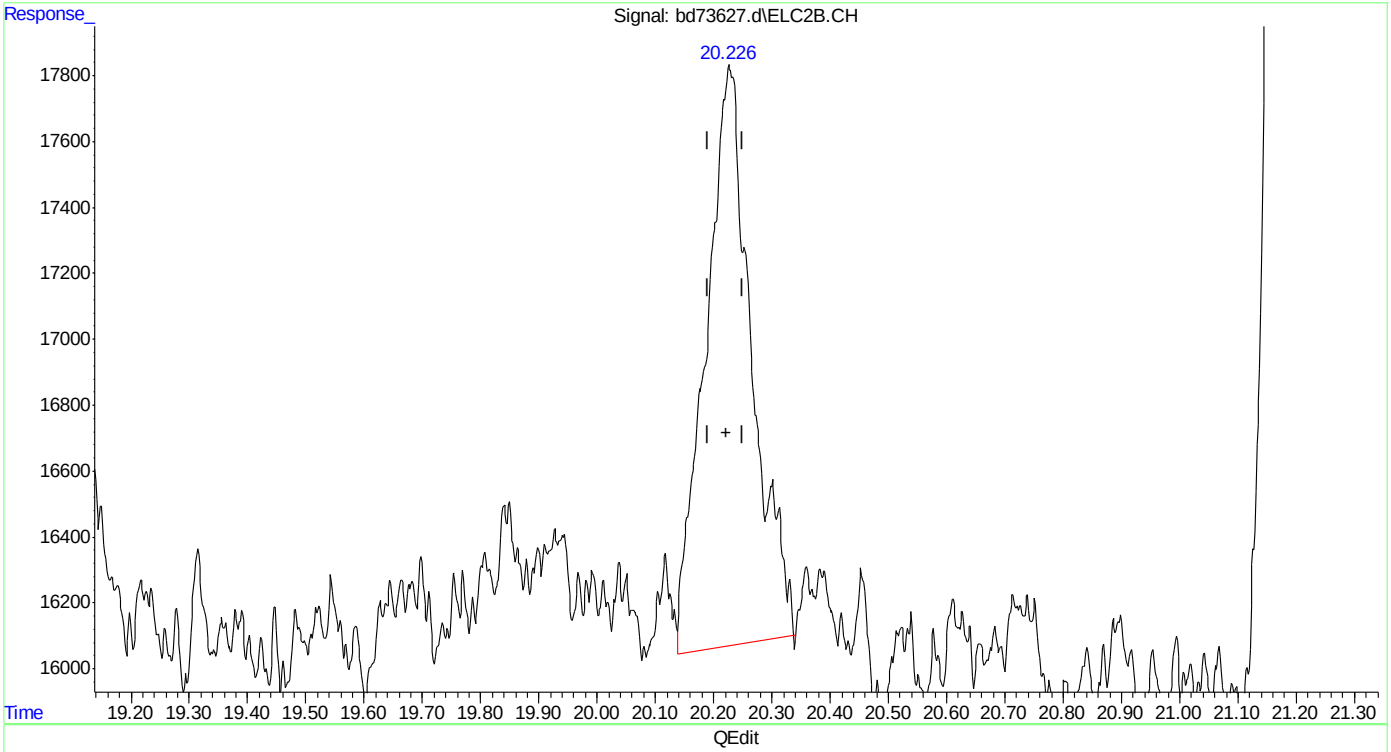
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) toluene #2
20.228min 0.214 ppb
response 96784

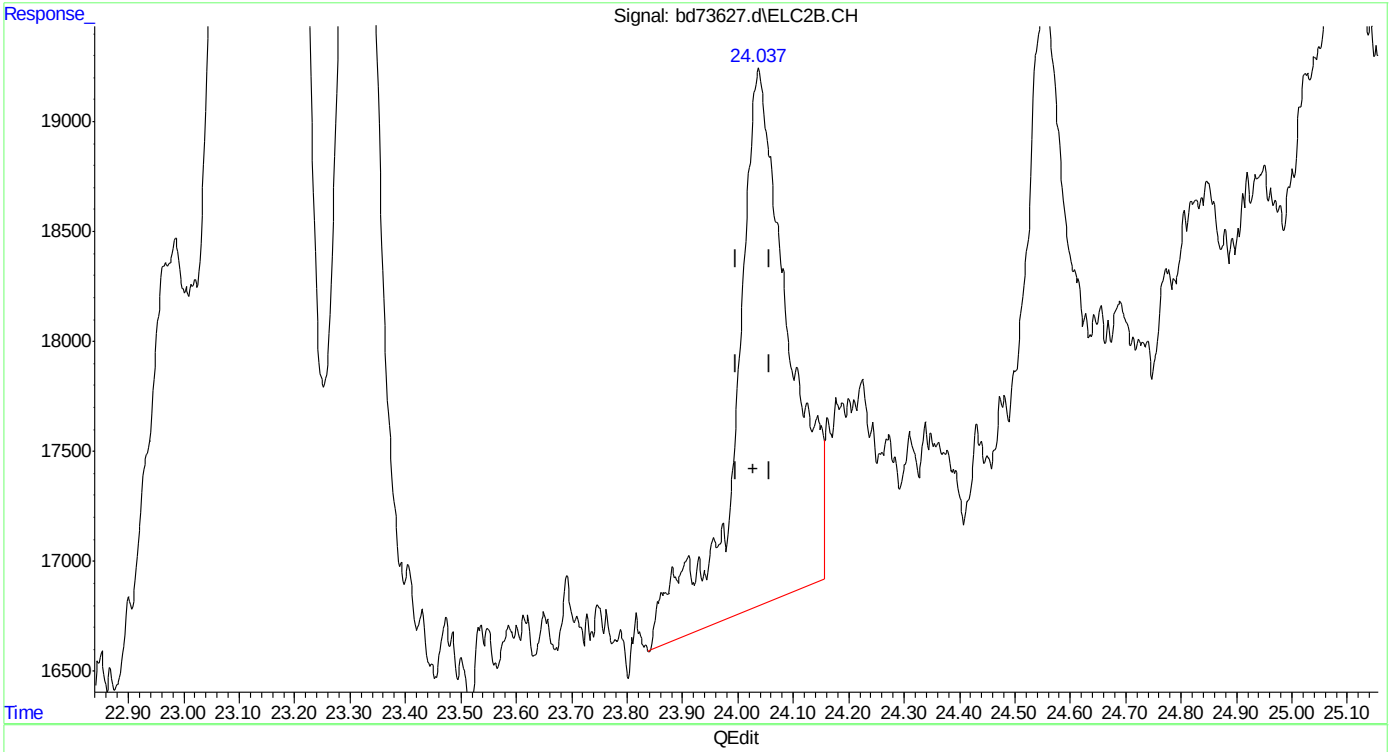
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:52:09 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
24.038min 0.377 ppb
response 163996

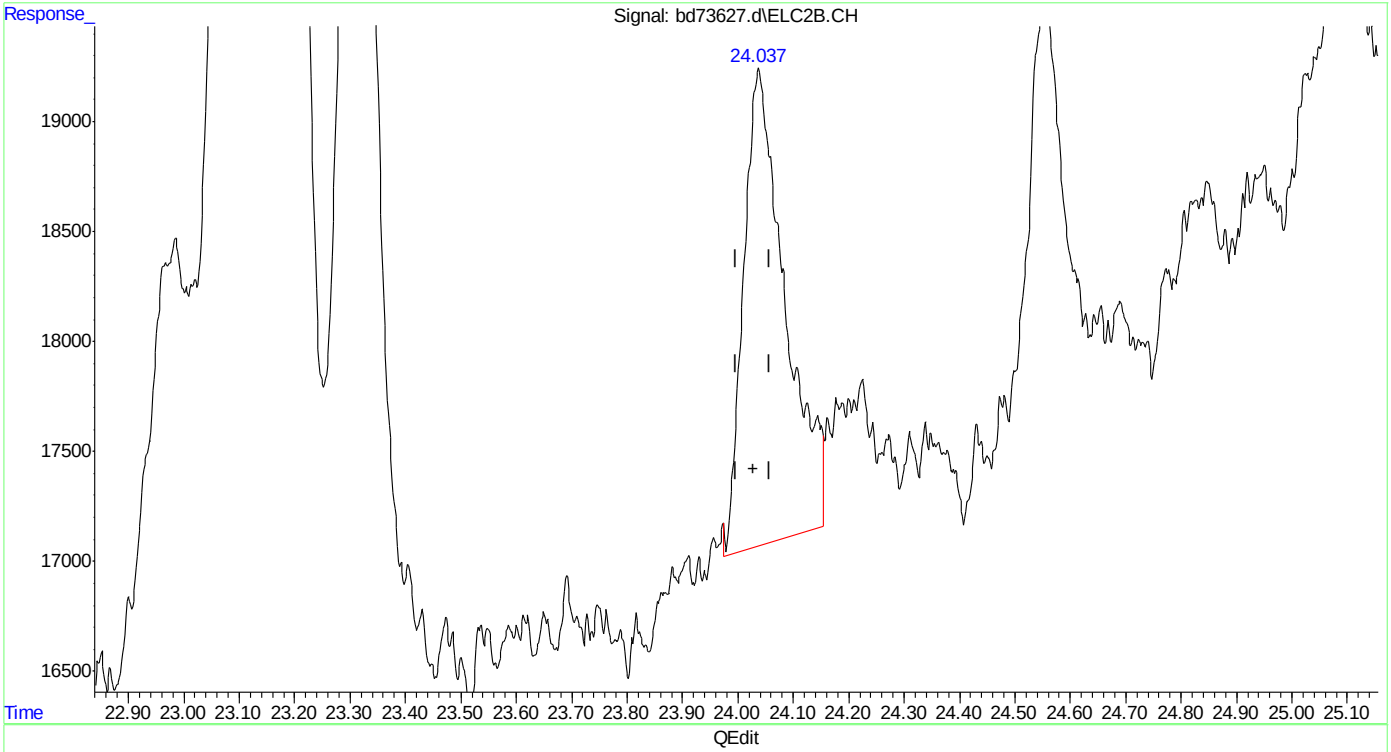
(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:52:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
24.037min 0.260 ppb m
response 113235

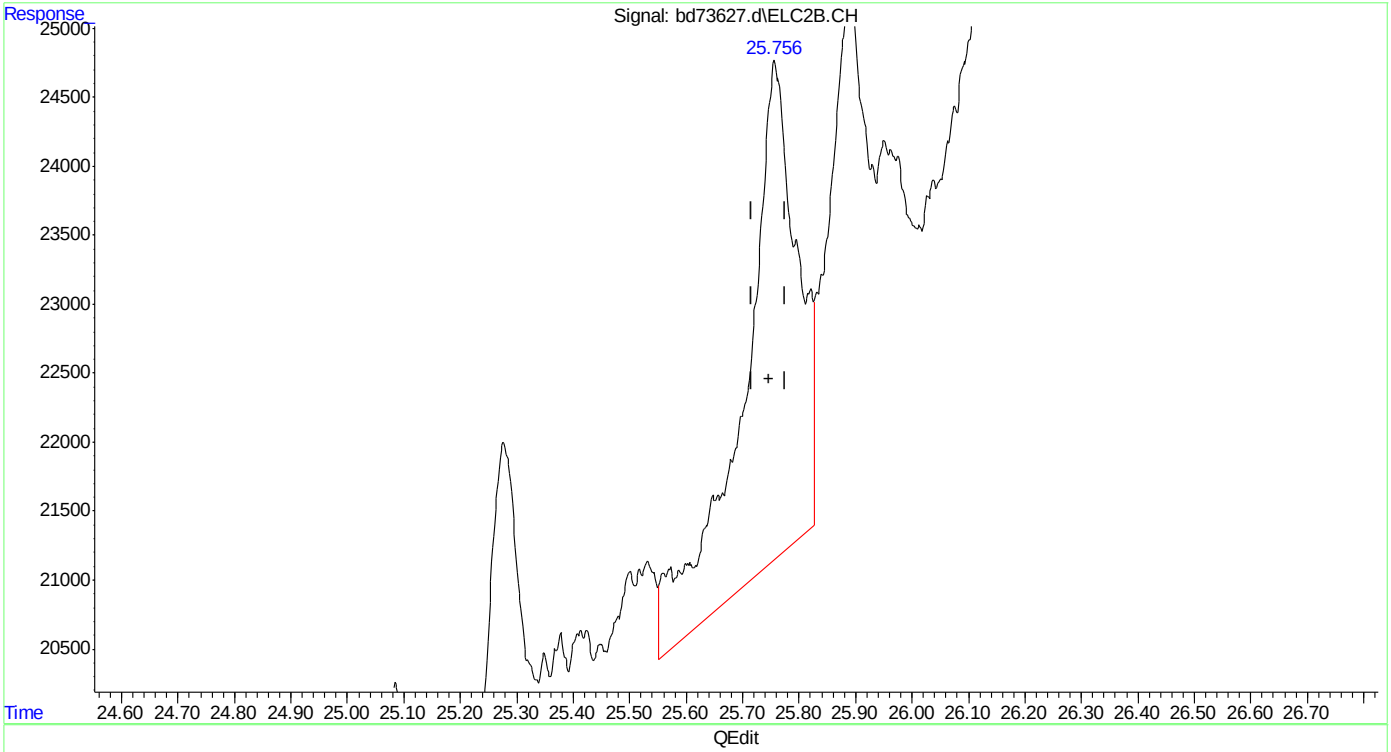
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.758min 0.483 ppb
response 237441

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:52:32 2016

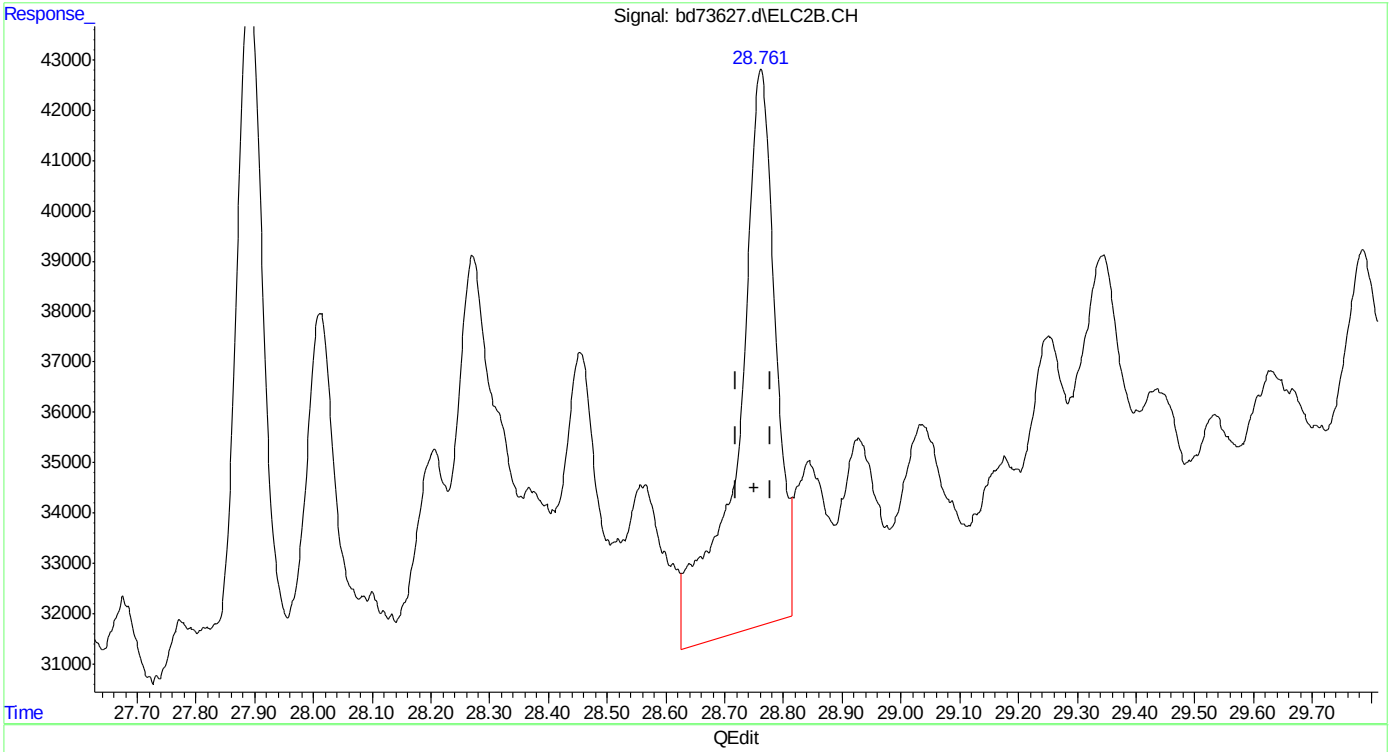
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.762min 1.889 ppb
response 485021

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:52:48 2016

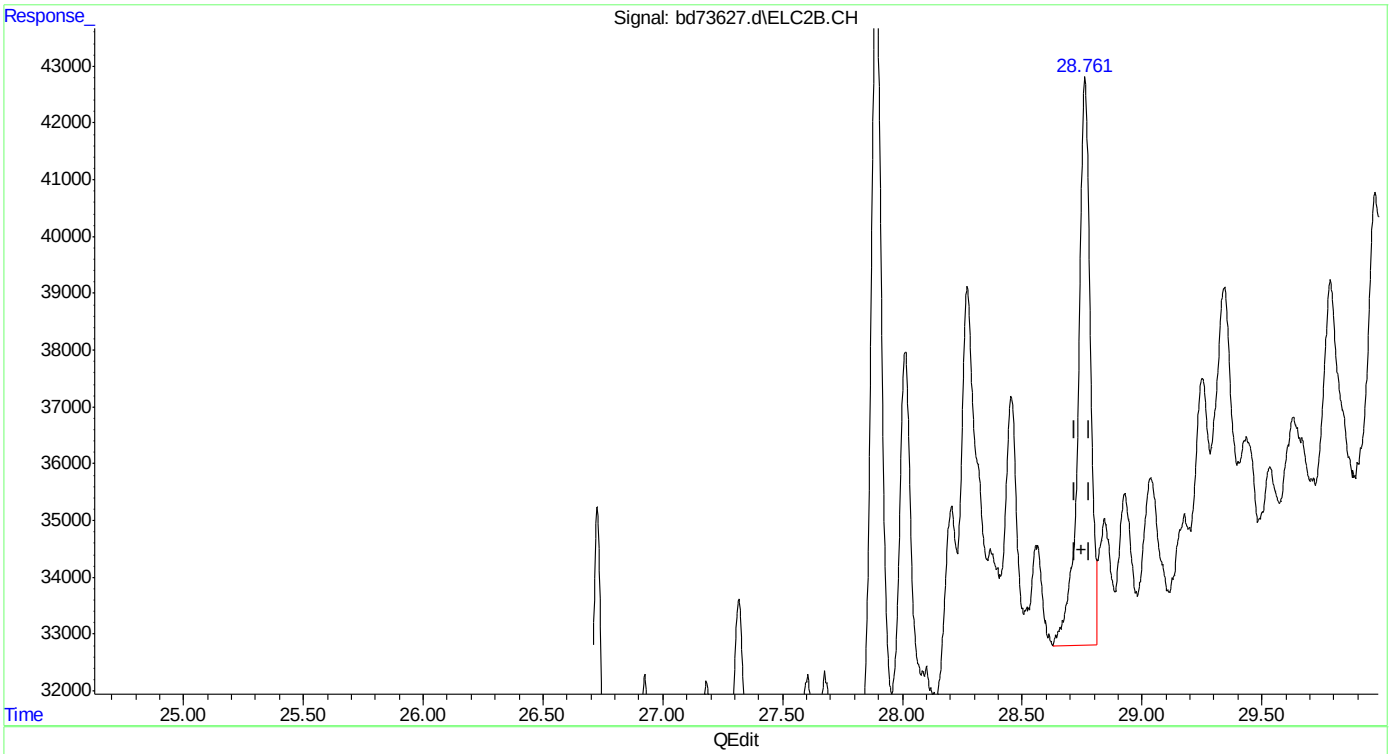
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73627.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 19:54:12
Operator : tonyf
Sample : mc45969-2,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:40:58 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.761min 1.516 ppb m
response 349090

(+) = Expected Retention Time
bd160518vph.M Thu May 19 08:53:03 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/18/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:53:14
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 08:32:04 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.420	32201908	47.328	ppb	
Spiked Amount 50.000		Recovery =	94.66%		
6) s 2,3,4-trifluorotoluene	21.235	25701611	49.331	ppb	
Spiked Amount 50.000		Recovery =	98.66%		
16) s fluorobenzene #2	16.420	13459334	39.673	ppb	
Spiked Amount 50.000		Recovery =	79.35%		
18) s 2,3,4-trifluorotoluen...	21.235	8074153	41.016	ppb	
Spiked Amount 50.000		Recovery =	82.03%		
Target Compounds					
1) h rt5.5-7	7.470	207186	0.336	ppb	m
2) h rt7/10	9.920	405392	0.657	ppb	m
3) h rt10/13	15.200	1033595	1.676	ppb	m
8) h rt20/25	22.840	8737102	10.918	ppb	m
17) toluene #2	20.202f	33096	0.073	ppb	
24) naphthalene #2	28.761	75414	0.766	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	8114191	16.504	ppb	m

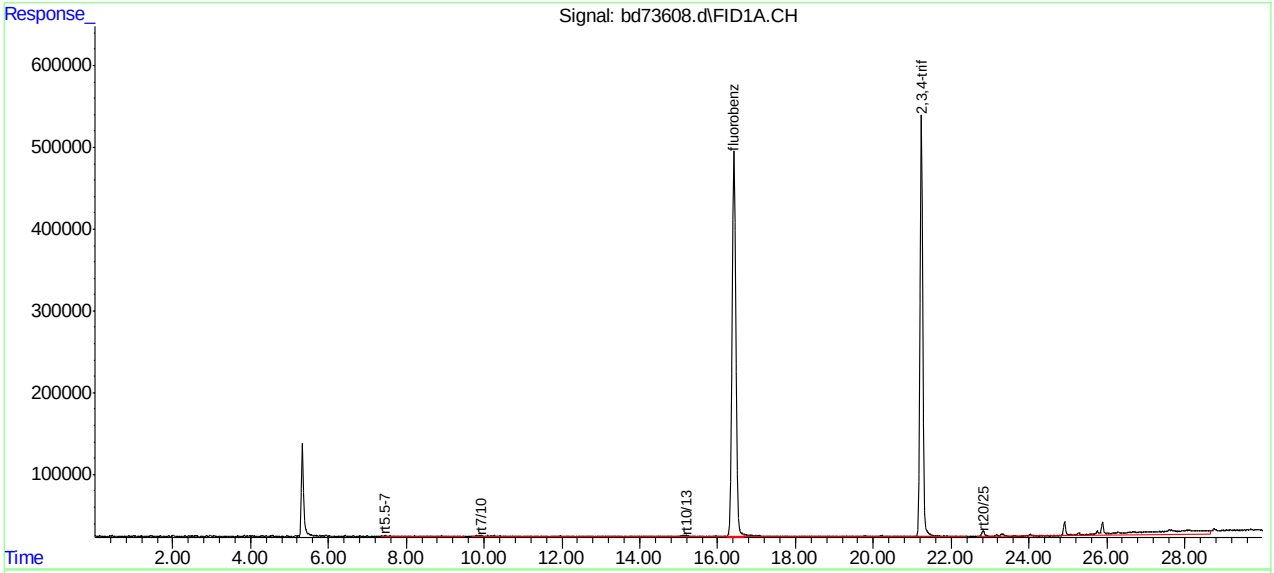
(f)=RT Delta > 1/2 Window (m)=manual int.

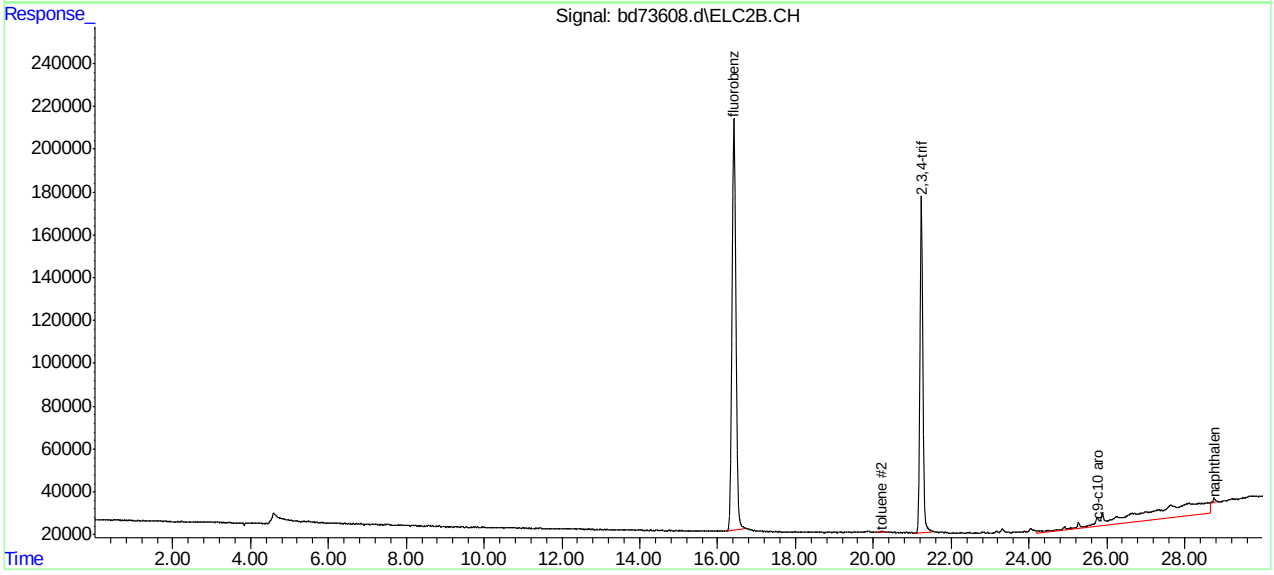
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:53:14
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

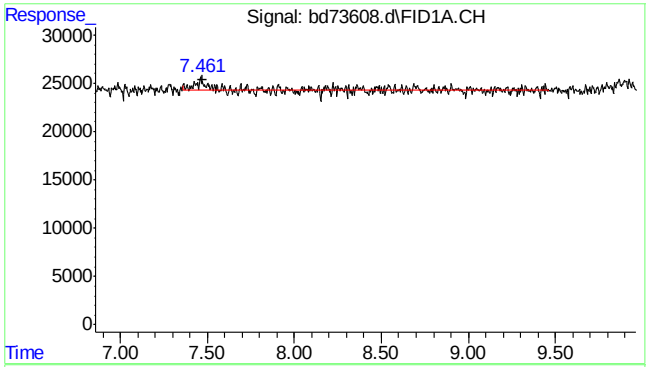
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 08:32:04 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



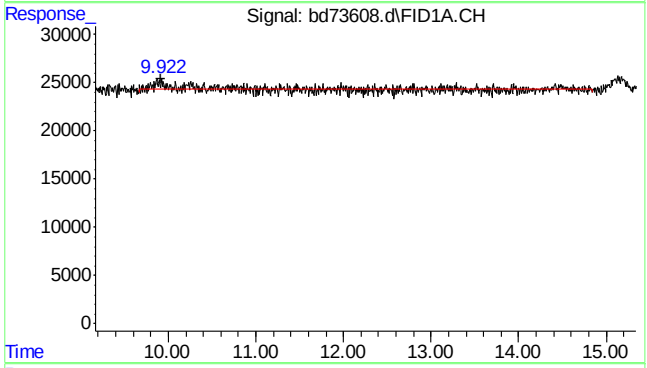


SGS ACCUTEST MC45969



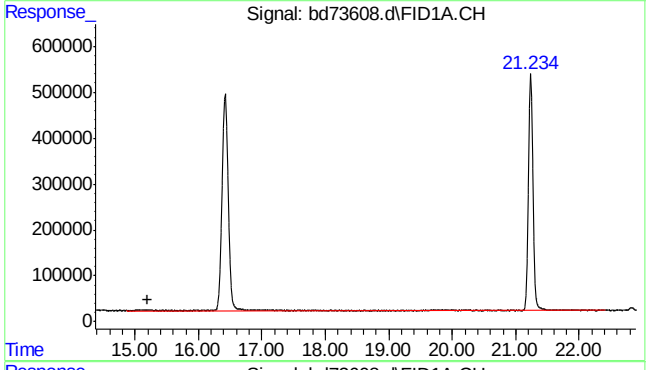
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 207186
Conc: 0.34 ppb m



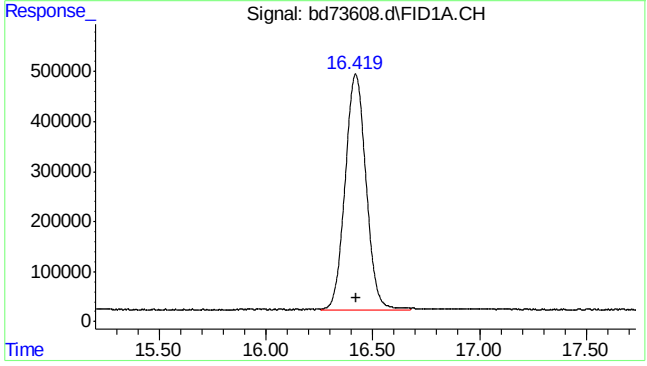
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 405392
Conc: 0.66 ppb m



#3 rt10/13

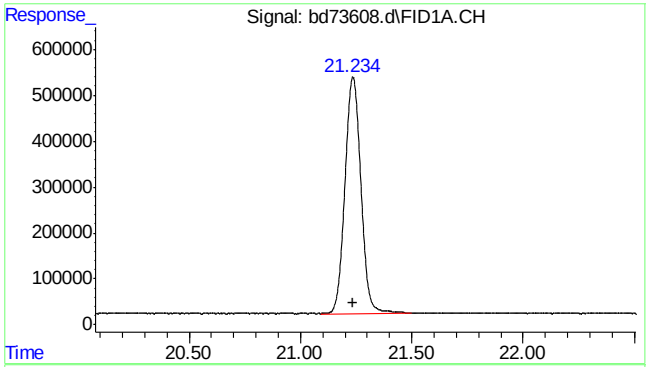
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1033595
Conc: 1.68 ppb m



#4 fluorobenzene

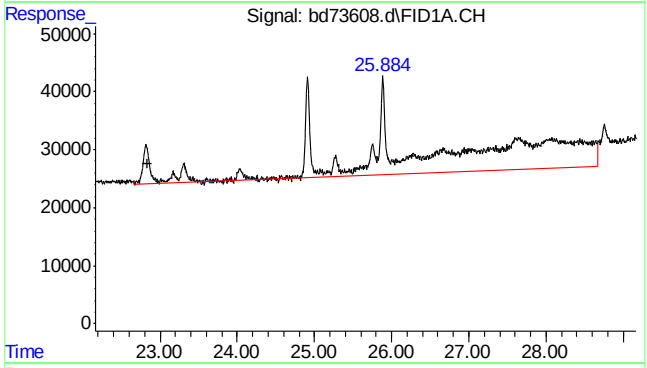
R.T.: 16.420 min
Delta R.T.: -0.004 min
Response: 32201908
Conc: 47.33 ppb

SGS ACCUTEST MC45969



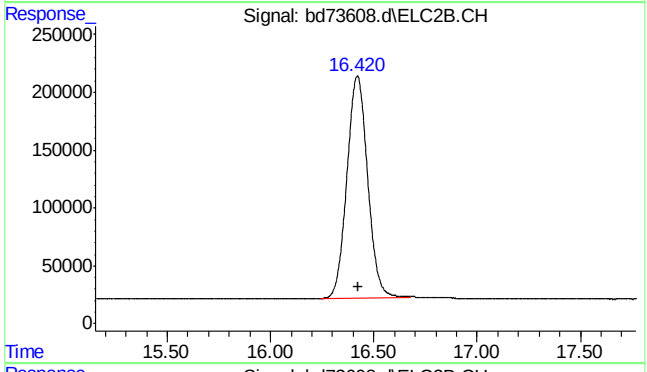
#6 2,3,4-trifluorotoluene

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 25701611
Conc: 49.33 ppb



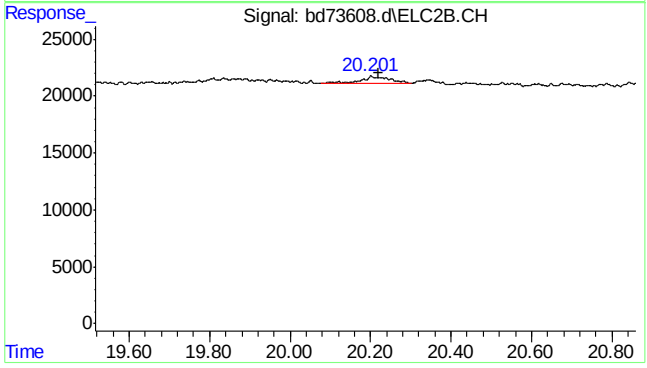
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 8737102
Conc: 10.92 ppb m



#16 fluorobenzene #2

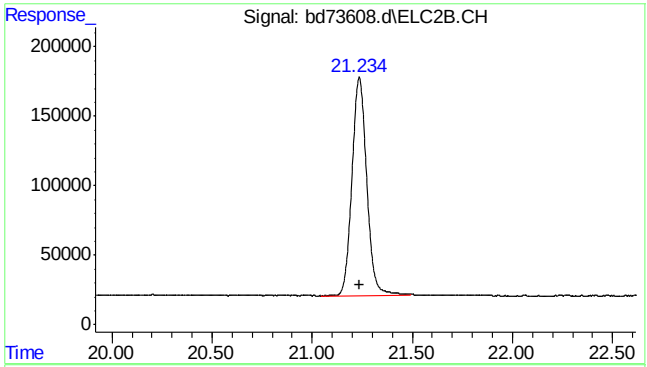
R.T.: 16.420 min
Delta R.T.: -0.004 min
Response: 13459334
Conc: 39.67 ppb



#17 toluene #2

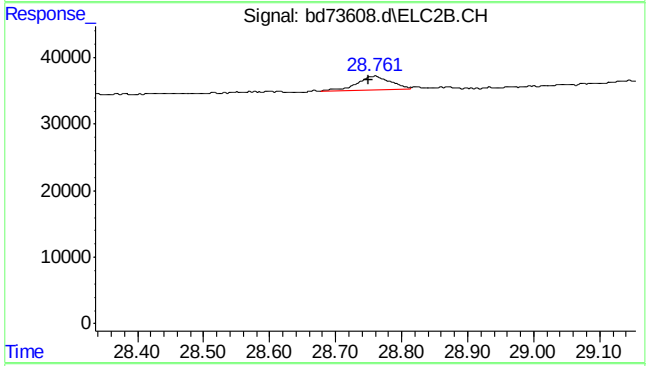
R.T.: 20.202 min
Delta R.T.: -0.019 min
Response: 33096
Conc: 0.07 ppb

SGS ACCUTEST MC45969



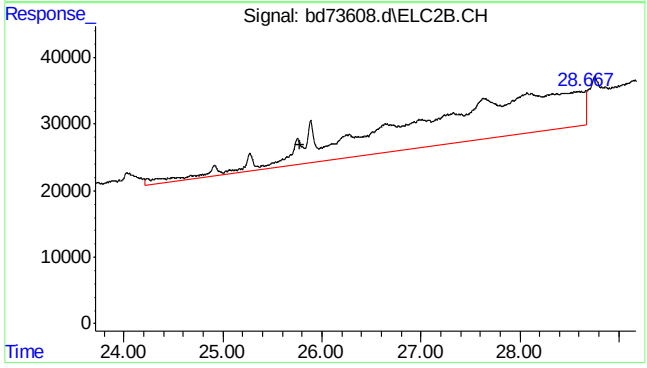
#18 2,3,4-trifluorotoluene #2

```
      R.T.:   21.235 min
Delta R.T.:   -0.002 min
  Response:   8074153
      Conc:  41.02 ppb
```



#24 naphthalene #2

```
      R.T.:   28.761 min
Delta R.T.:    0.011 min
  Response:     75414
      Conc:   0.77 ppb m
```



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

```
      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response:   8114191
      Conc:  16.50 ppb m
```

7.2.1

7

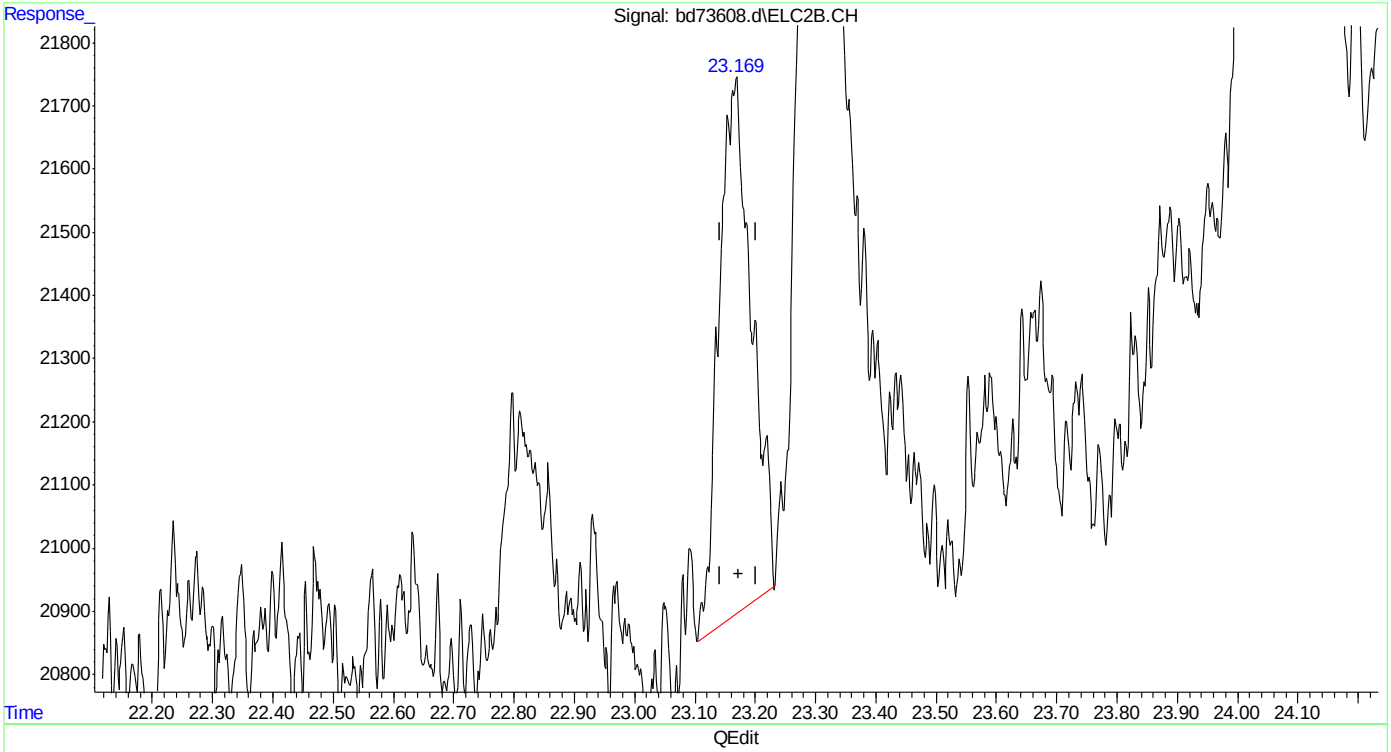
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:53:14
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 08:30:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) ethylbenzene #2
23.168min 0.077 ppb
response 31759

(+) = Expected Retention Time
bd160518vph.M Wed May 18 08:30:59 2016

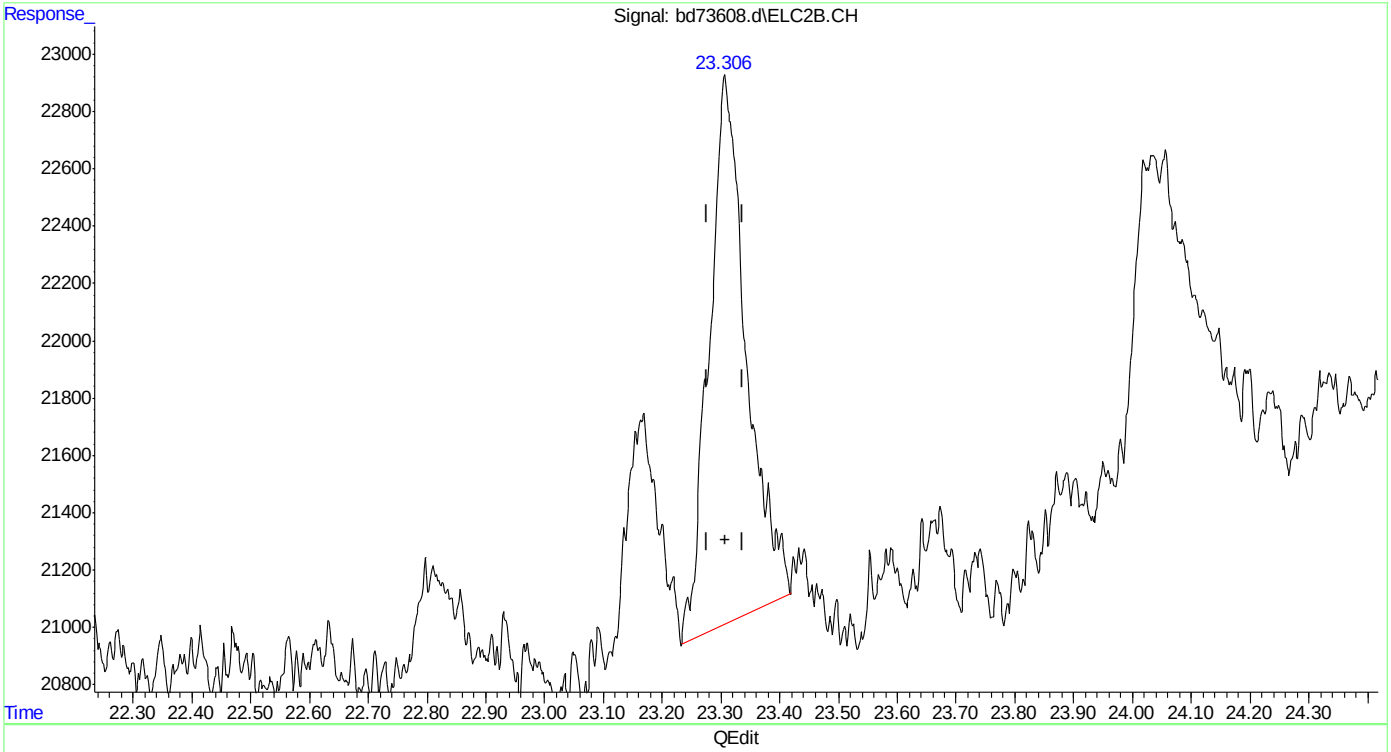
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 07:53:14
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 08:30:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(20) m,p-xylene #2

23.307min 0.169 ppb

response 84124

(+) = Expected Retention Time

bd160518vph.M Wed May 18 08:31:04 2016

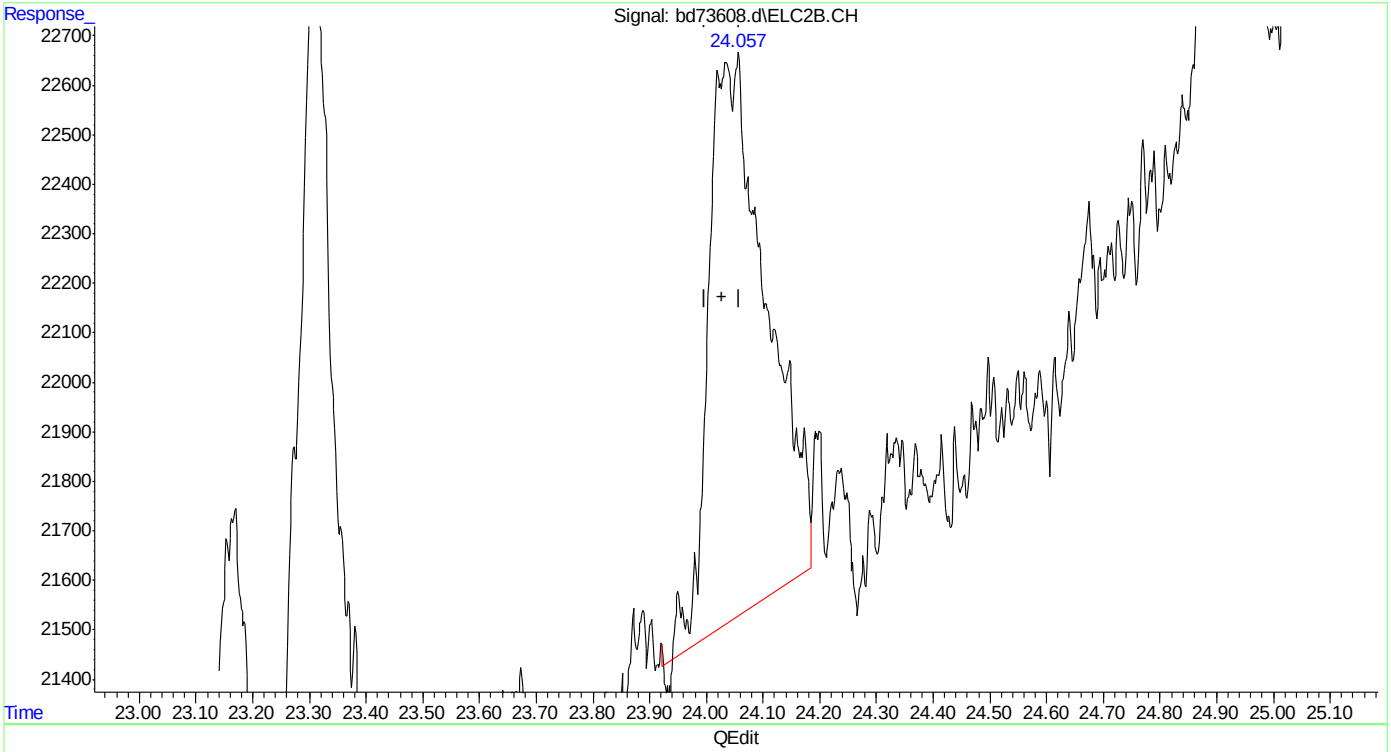
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 07:53:14
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 08:30:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2

24.056min 0.186 ppb

response 80914

(+) = Expected Retention Time

bd160518vph.M Wed May 18 08:31:29 2016

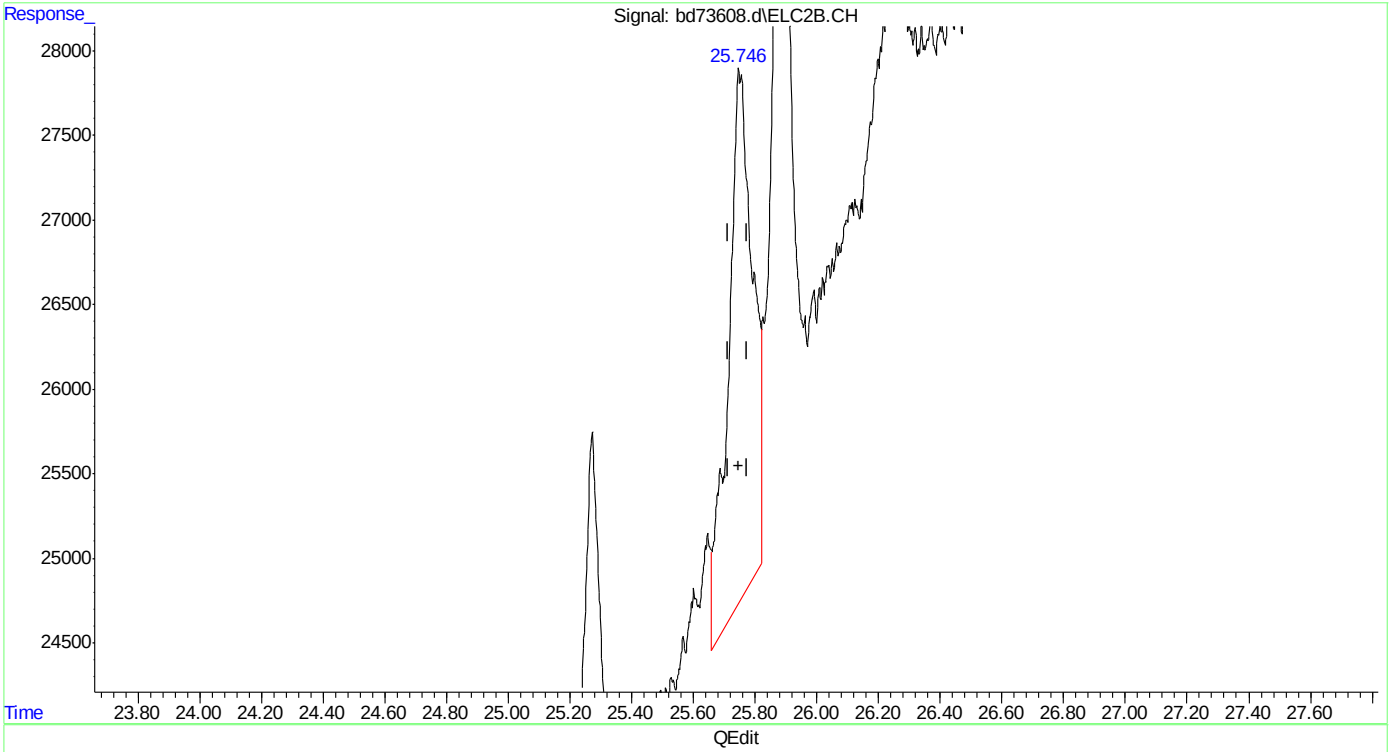
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 07:53:14
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 08:30:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2

25.748min 0.348 ppb

response 171111

(+) = Expected Retention Time

bd160518vph.M Wed May 18 08:31:38 2016

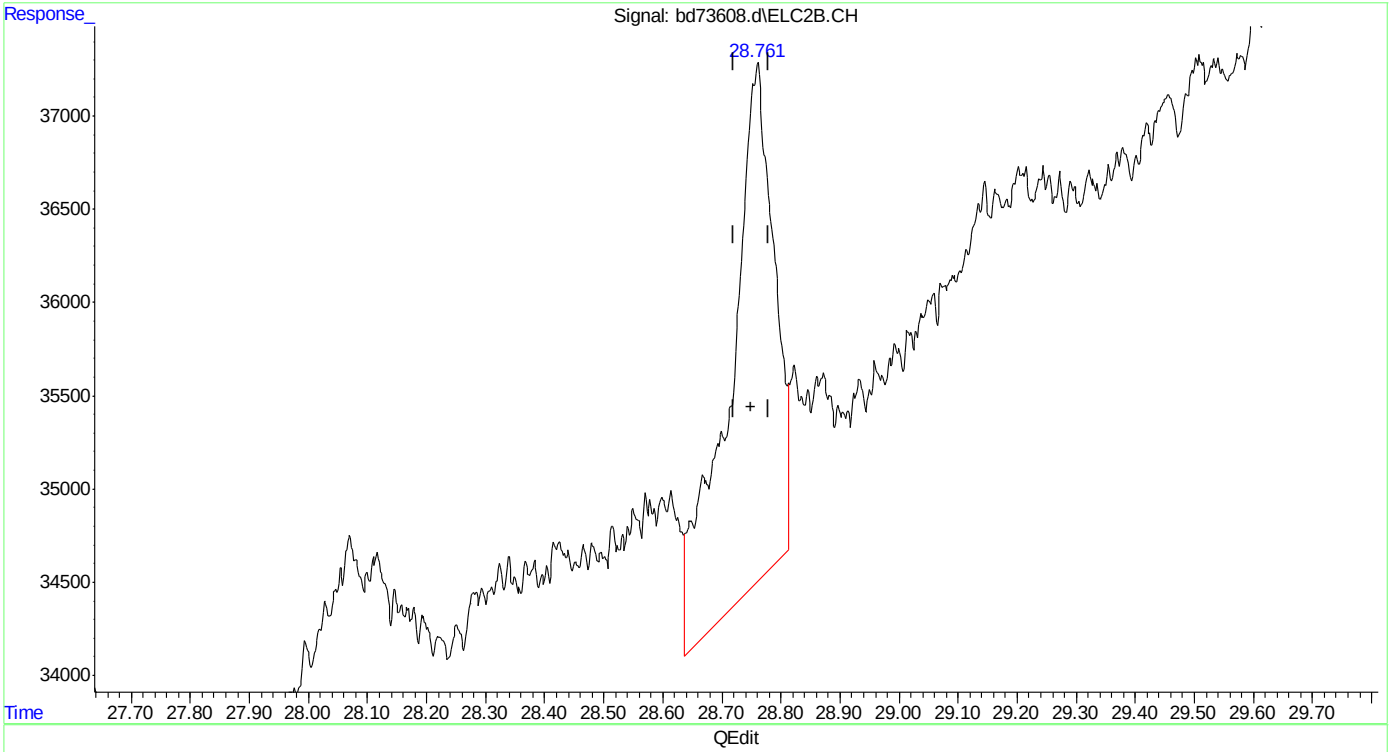
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 07:53:14
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 08:30:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.761min 0.965 ppb

response 148120

(+) = Expected Retention Time

bd160518vph.M Wed May 18 08:31:49 2016

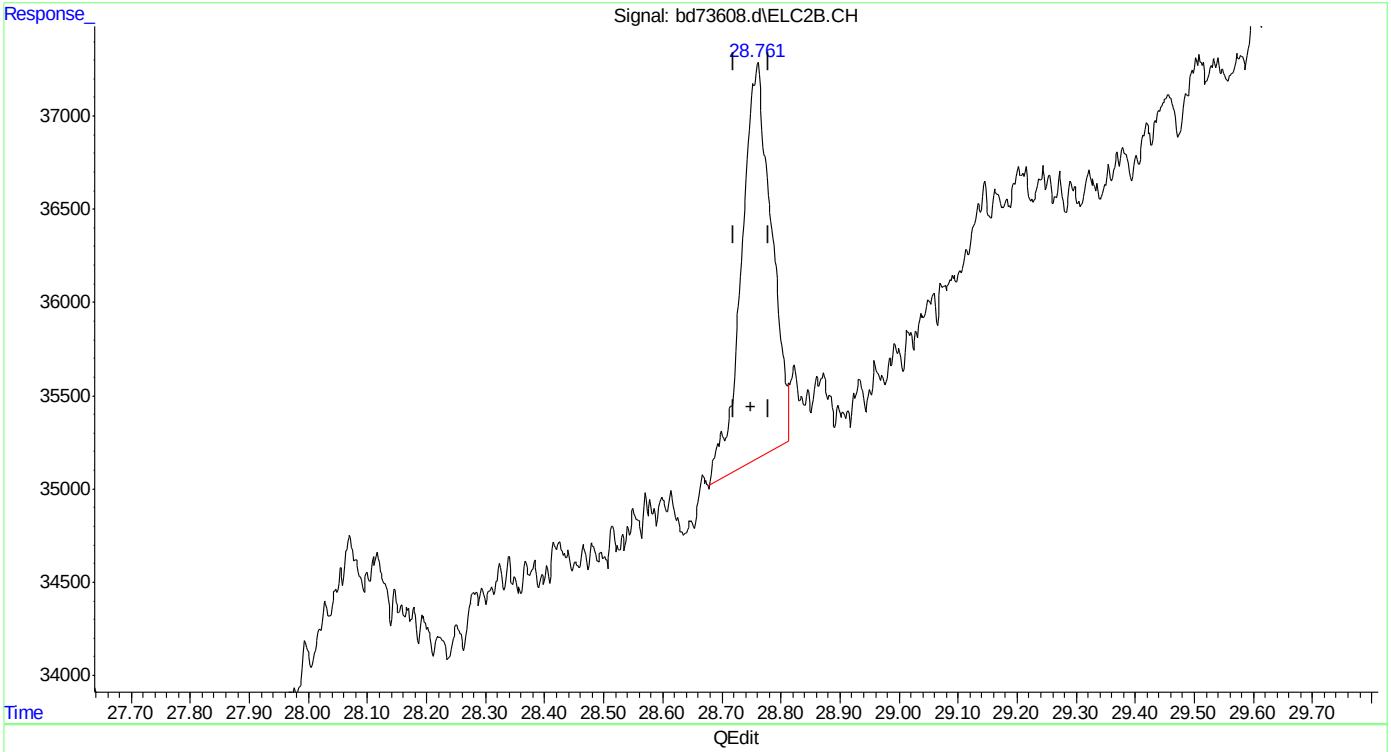
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73608.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 07:53:14
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 08:30:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.761min 0.766 ppb m

response 75414

(+) = Expected Retention Time

bd160518vph.M Wed May 18 08:31:55 2016

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/18/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73609.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 08:30:46
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 09:17:51 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.421	35189921	51.719 ppb	
Spiked Amount 50.000		Recovery	= 103.44%	
6) s 2,3,4-trifluorotoluene	21.237	26727433	51.300 ppb	
Spiked Amount 50.000		Recovery	= 102.60%	
16) s fluorobenzene #2	16.421	14547221	42.880 ppb	
Spiked Amount 50.000		Recovery	= 85.76%	
18) s 2,3,4-trifluorotoluen...	21.237	8290566	42.115 ppb	
Spiked Amount 50.000		Recovery	= 84.23%	
Target Compounds				
1) h rt5.5-7	7.470	25128310	40.743 ppb	m
2) h rt7/10	9.920	30749315	49.857 ppb	m
3) h rt10/13	15.200	27158073	44.034 ppb	m
8) h rt20/25	22.840	31170978	38.953 ppb	m
10) h decane	24.930	29163781	36.445 ppb	
11) h butylcyclohexane	25.908	34107651	42.623 ppb	
14) mtbe #2	10.678f	7317806	47.485 ppb	m
15) benzene #2	15.928	22273321	46.057 ppb	
17) toluene #2	20.219	20846565	46.048 ppb	
19) ethylbenzene #2	23.172	18621982	44.871 ppb	
20) m,p-xylene #2	23.308	45135304	90.553 ppb	
21) o-xylene #2	24.030	19026556	43.761 ppb	
22) t 1,3,5-trimethylbenzen...	25.272	27257469	40.620 ppb	
23) 1,2,4-trimethylbenzen...	25.750	21383564	43.473 ppb	
24) naphthalene #2	28.755	17734121	49.191 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21344062	43.413 ppb	m

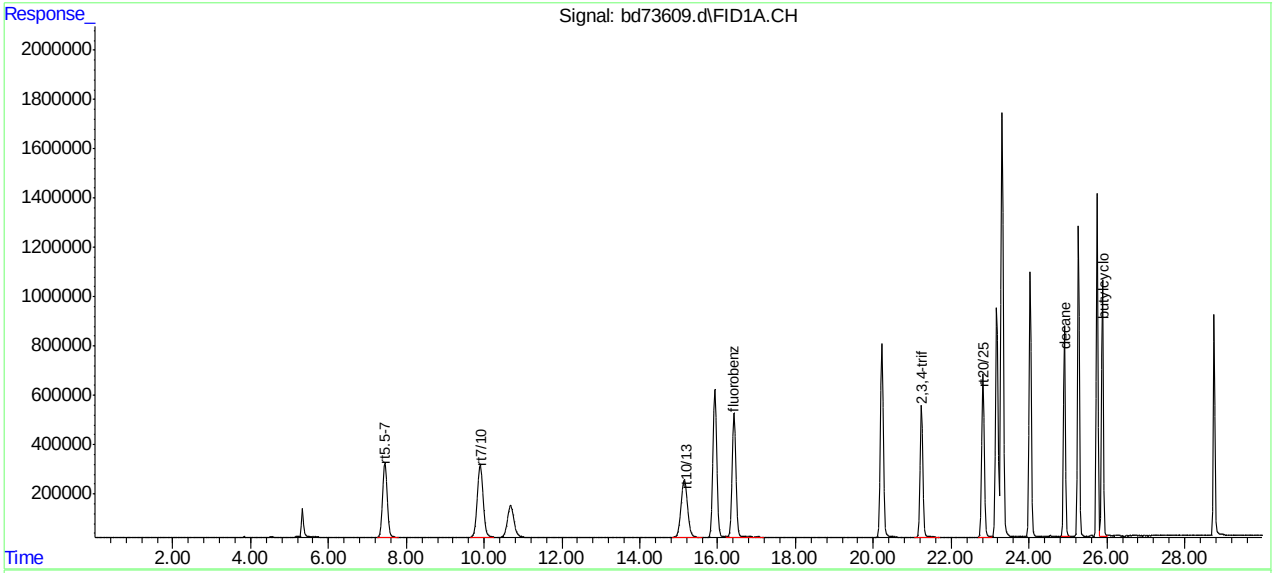
(f)=RT Delta > 1/2 Window (m)=manual int.

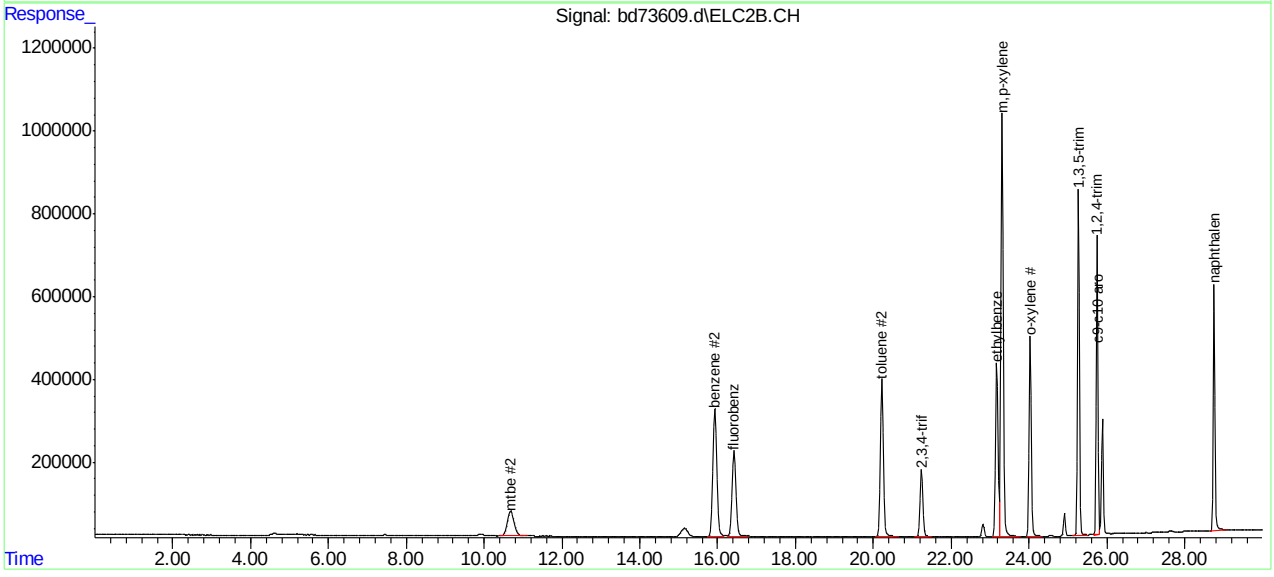
Quantitation Report (QT Reviewed)

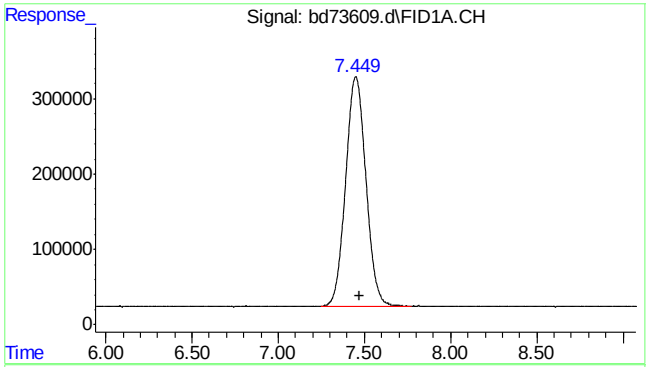
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73609.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 08:30:46
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 09:17:51 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

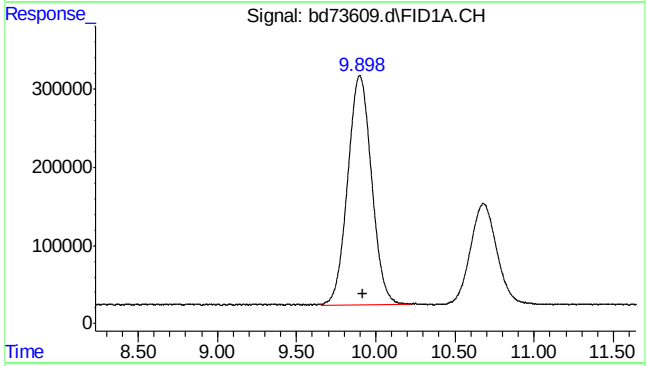






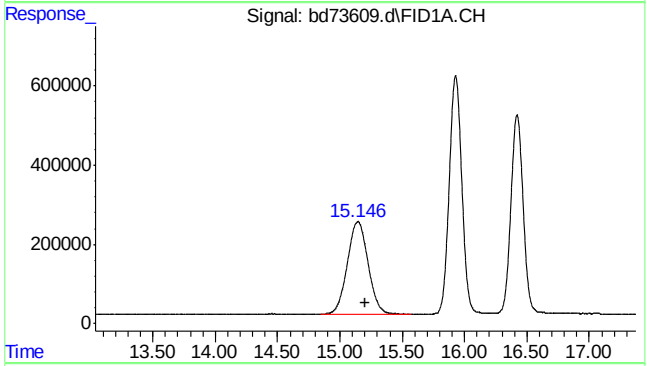
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25128310
Conc: 40.74 ppb m



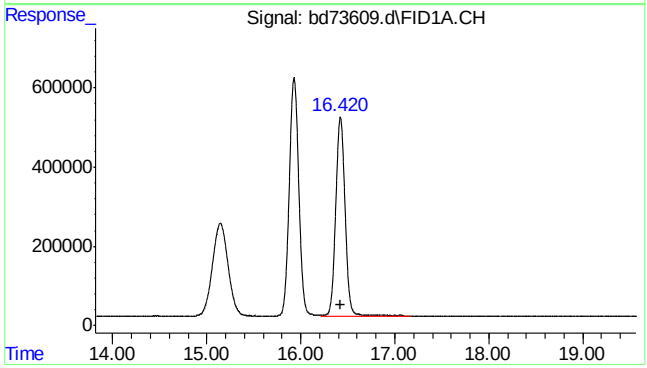
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 30749315
Conc: 49.86 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27158073
Conc: 44.03 ppb m



#4 fluorobenzene

R.T.: 16.421 min
Delta R.T.: -0.003 min
Response: 35189921
Conc: 51.72 ppb

7.3.1

7

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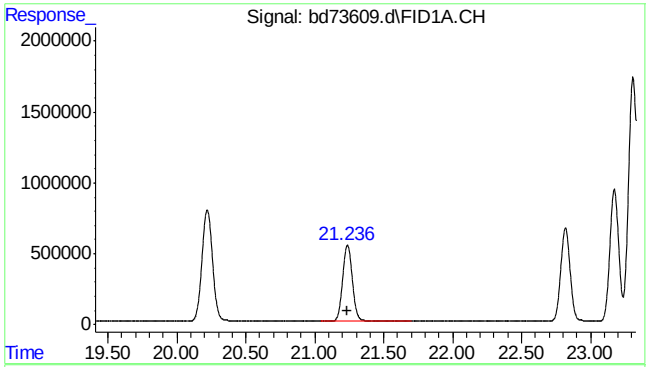
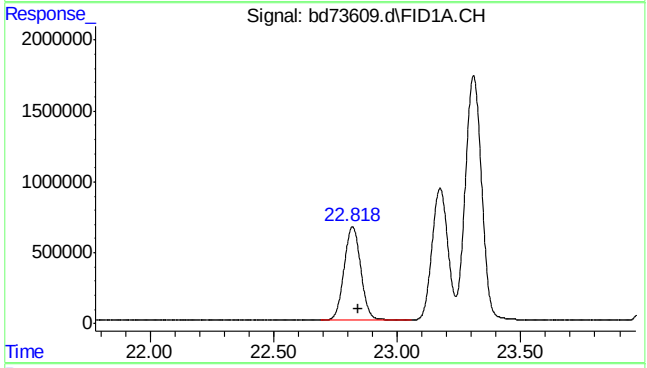


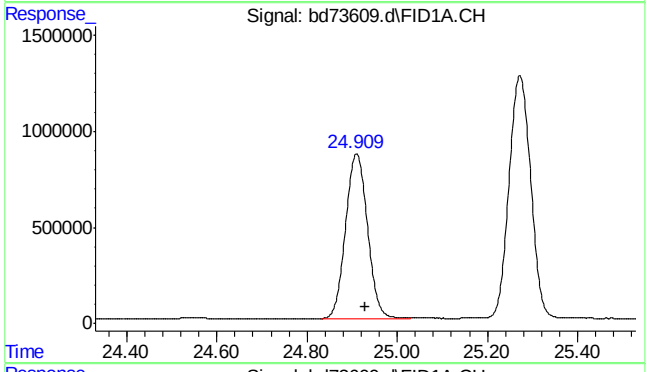
#6 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 26727433
Conc: 51.30 ppb



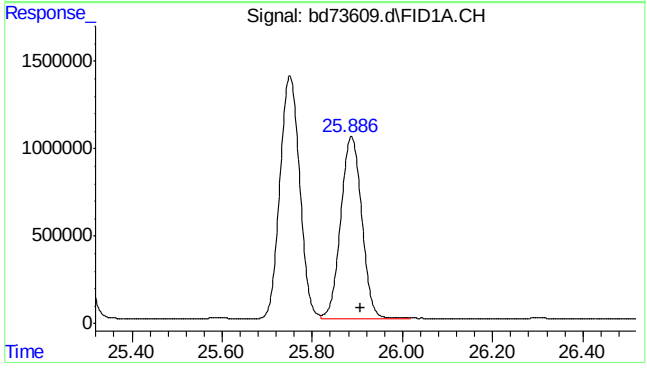
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 31170978
Conc: 38.95 ppb m



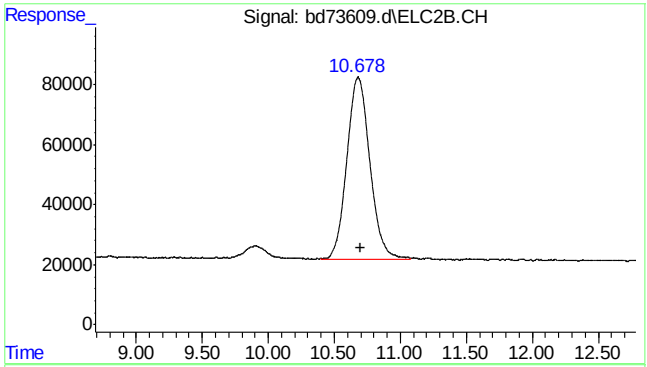
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 29163781
Conc: 36.44 ppb



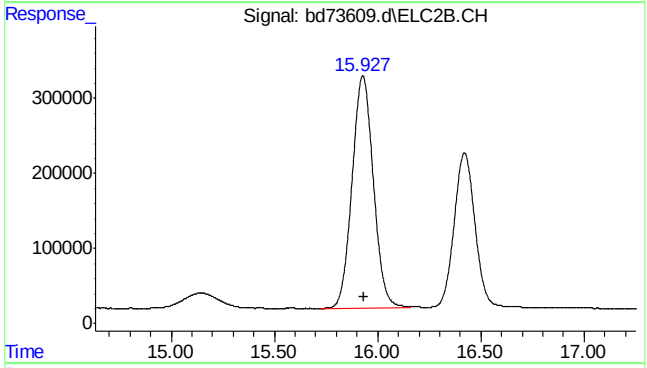
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 34107651
Conc: 42.62 ppb



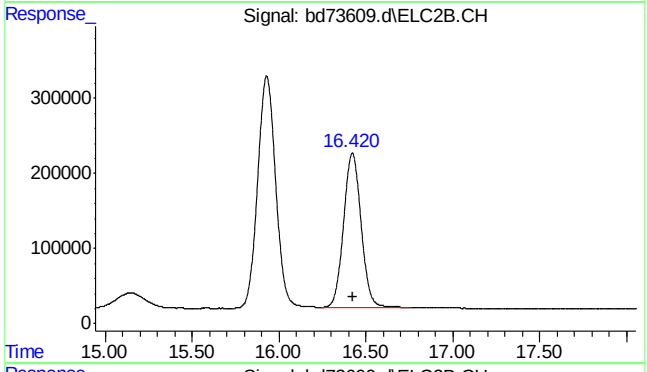
#14 mtbe #2

R.T.: 10.678 min
Delta R.T.: -0.018 min
Response: 7317806
Conc: 47.48 ppb m



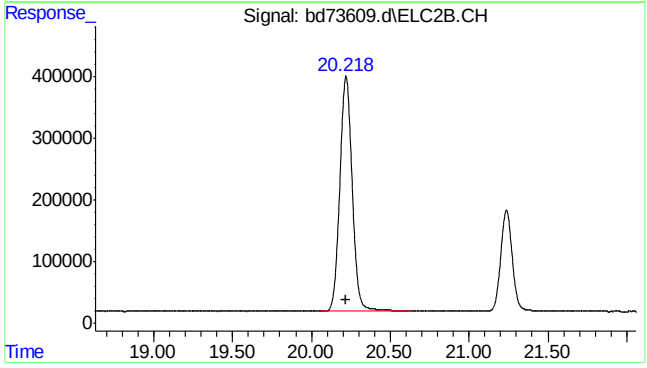
#15 benzene #2

R.T.: 15.928 min
Delta R.T.: -0.004 min
Response: 22273321
Conc: 46.06 ppb



#16 fluorobenzene #2

R.T.: 16.421 min
Delta R.T.: -0.003 min
Response: 14547221
Conc: 42.88 ppb



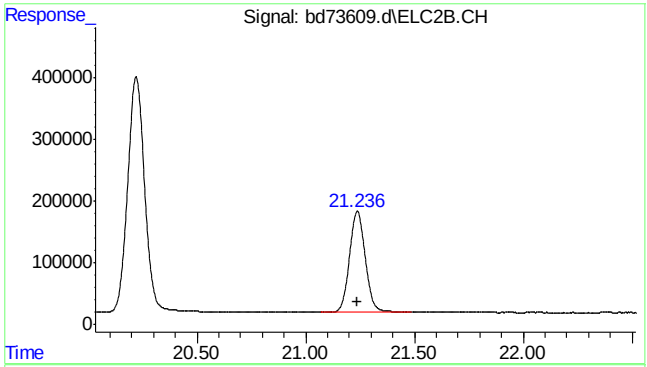
#17 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 20846565
Conc: 46.05 ppb

7.3.1

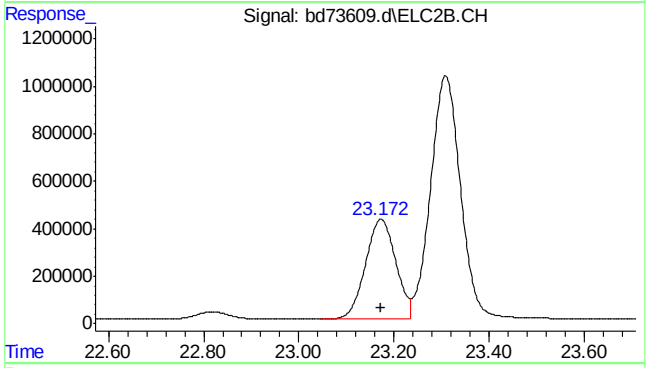
7

SGS ACCUTEST MC45969



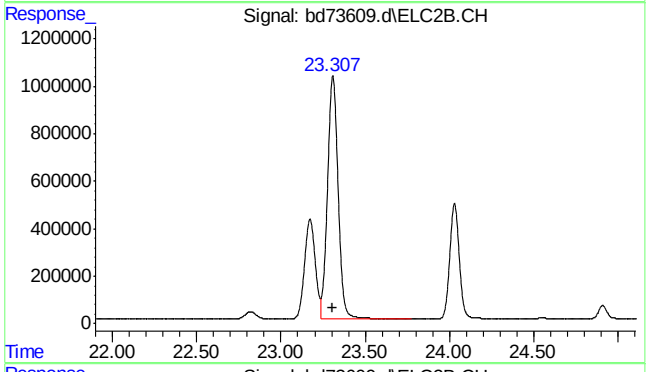
#18 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 8290566
Conc: 42.11 ppb



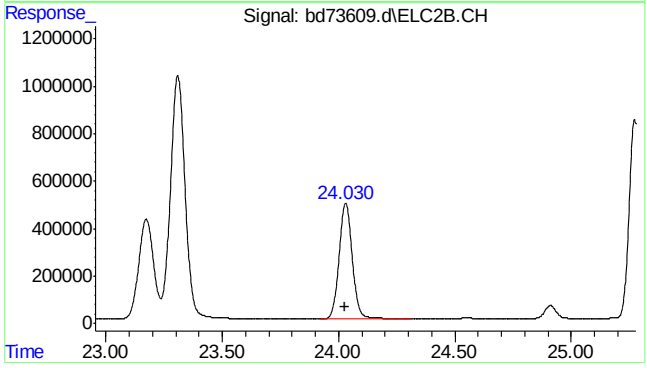
#19 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 18621982
Conc: 44.87 ppb



#20 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.001 min
Response: 45135304
Conc: 90.55 ppb



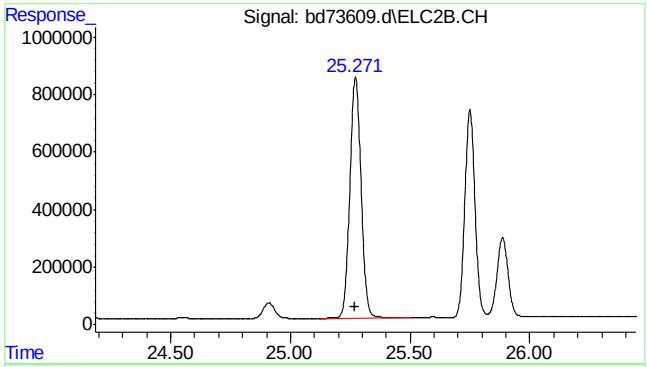
#21 o-xylene #2

R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 19026556
Conc: 43.76 ppb

7.3.1

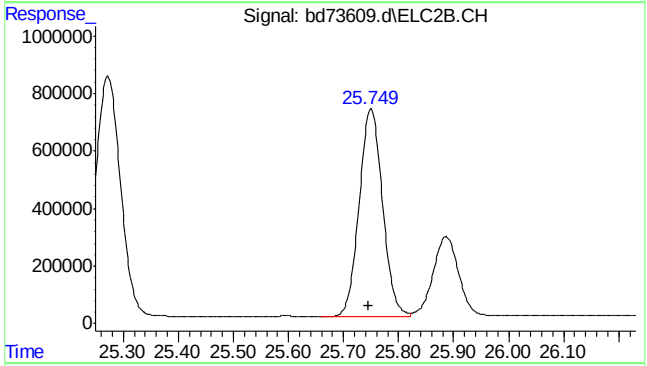
7

SGS ACCUTEST MC45969



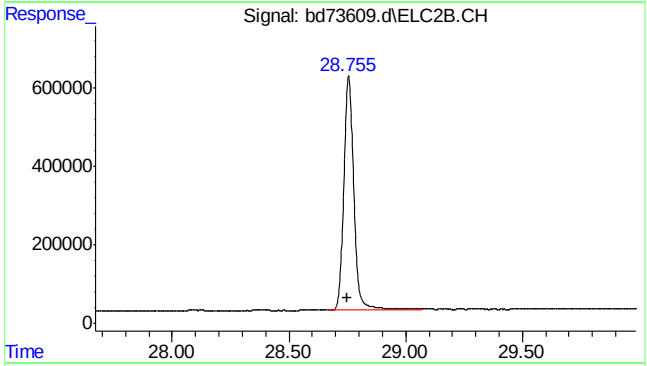
#22 1,3,5-trimethylbenzene #2

R.T.: 25.272 min
Delta R.T.: 0.004 min
Response: 27257469
Conc: 40.62 ppb



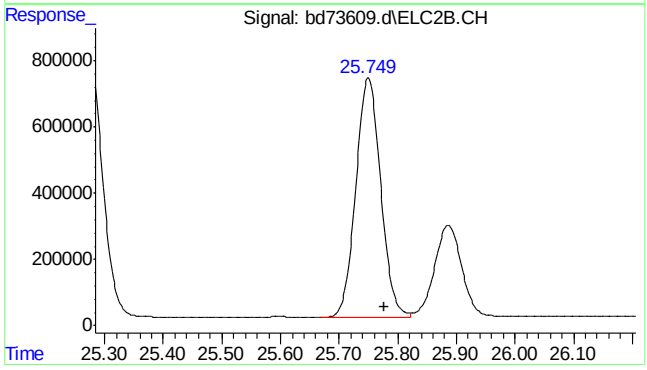
#23 1,2,4-trimethylbenzene #2

R.T.: 25.750 min
Delta R.T.: 0.004 min
Response: 21383564
Conc: 43.47 ppb



#24 naphthalene #2

R.T.: 28.755 min
Delta R.T.: 0.005 min
Response: 17734121
Conc: 49.19 ppb m



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

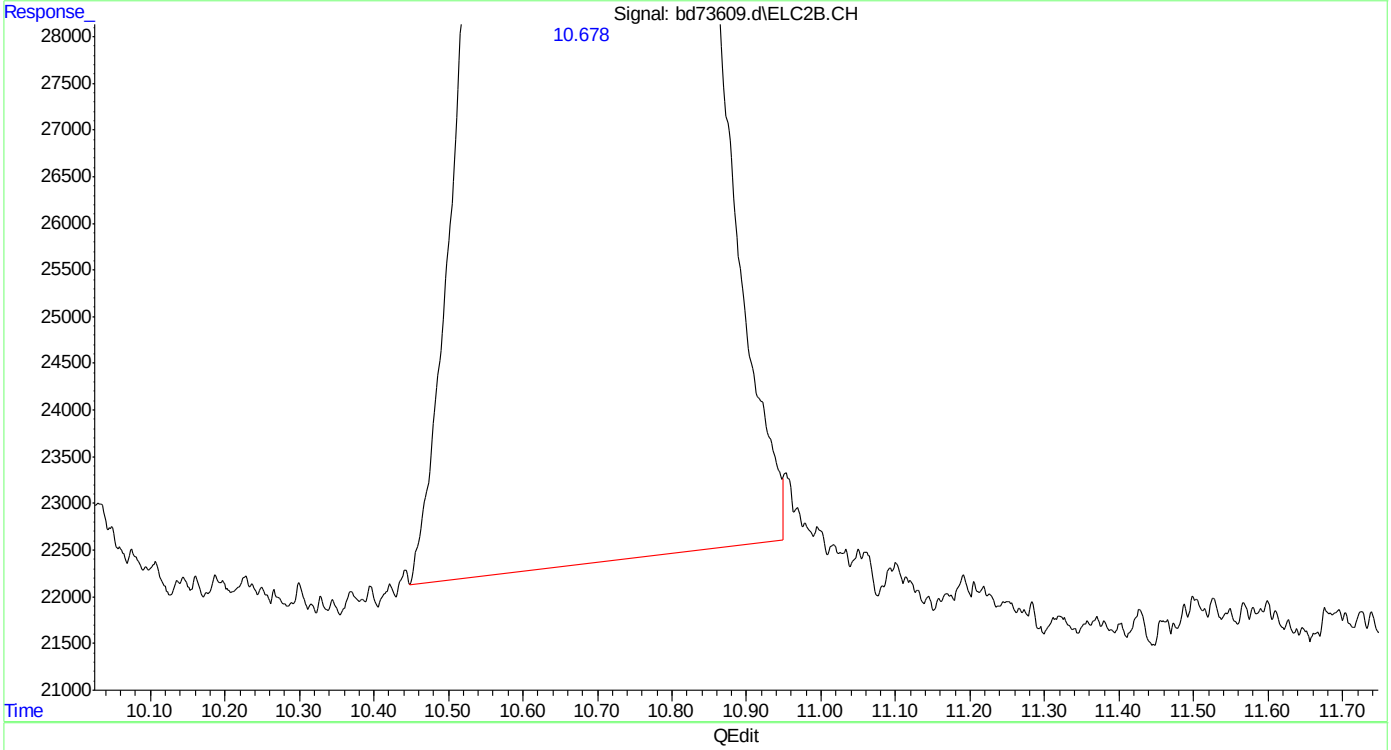
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21344062
Conc: 43.41 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73609.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 08:30:46
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 09:16:48 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.679min 46.242 ppb
response 7126296

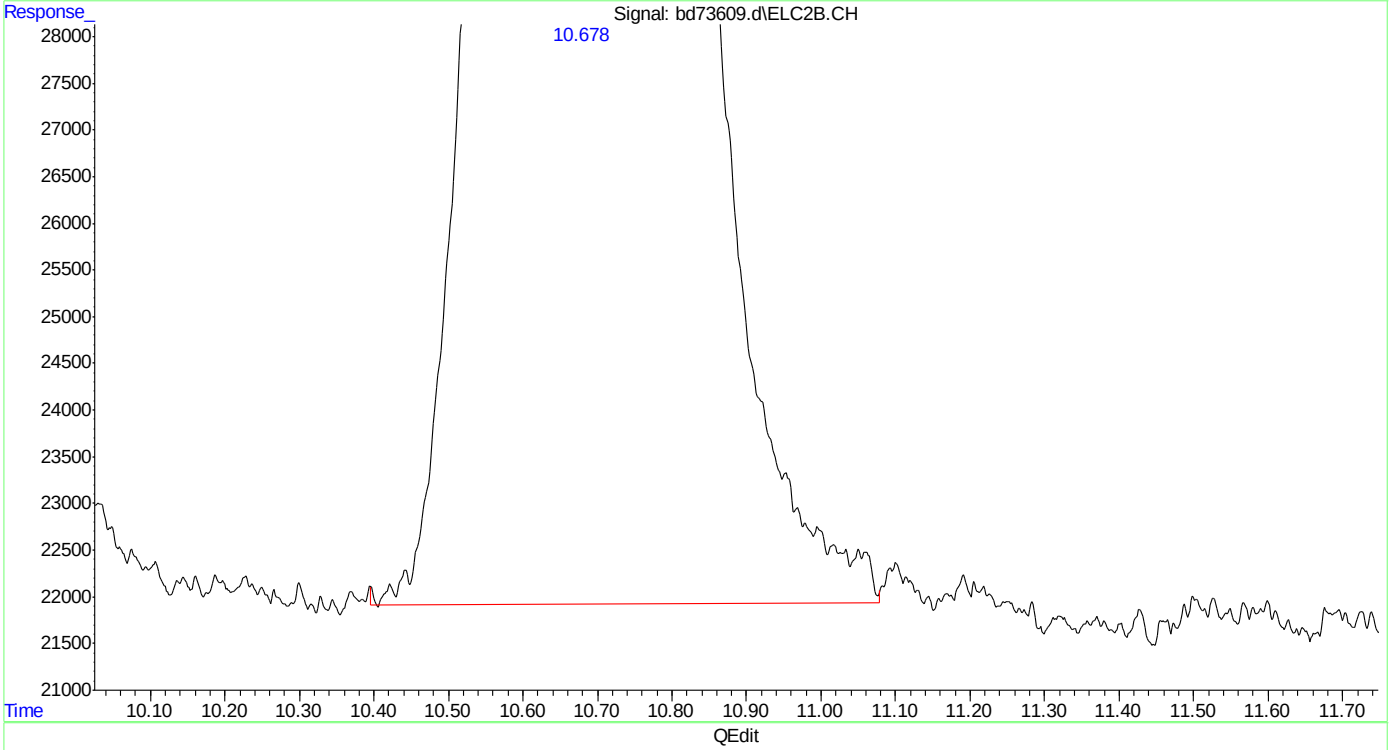
(+) = Expected Retention Time
bd160518vph.M Wed May 18 09:17:24 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73609.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 08:30:46
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 09:16:48 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

10.678min 47.485 ppb m

response 7317806

(+) = Expected Retention Time

bd160518vph.M Wed May 18 09:17:29 2016

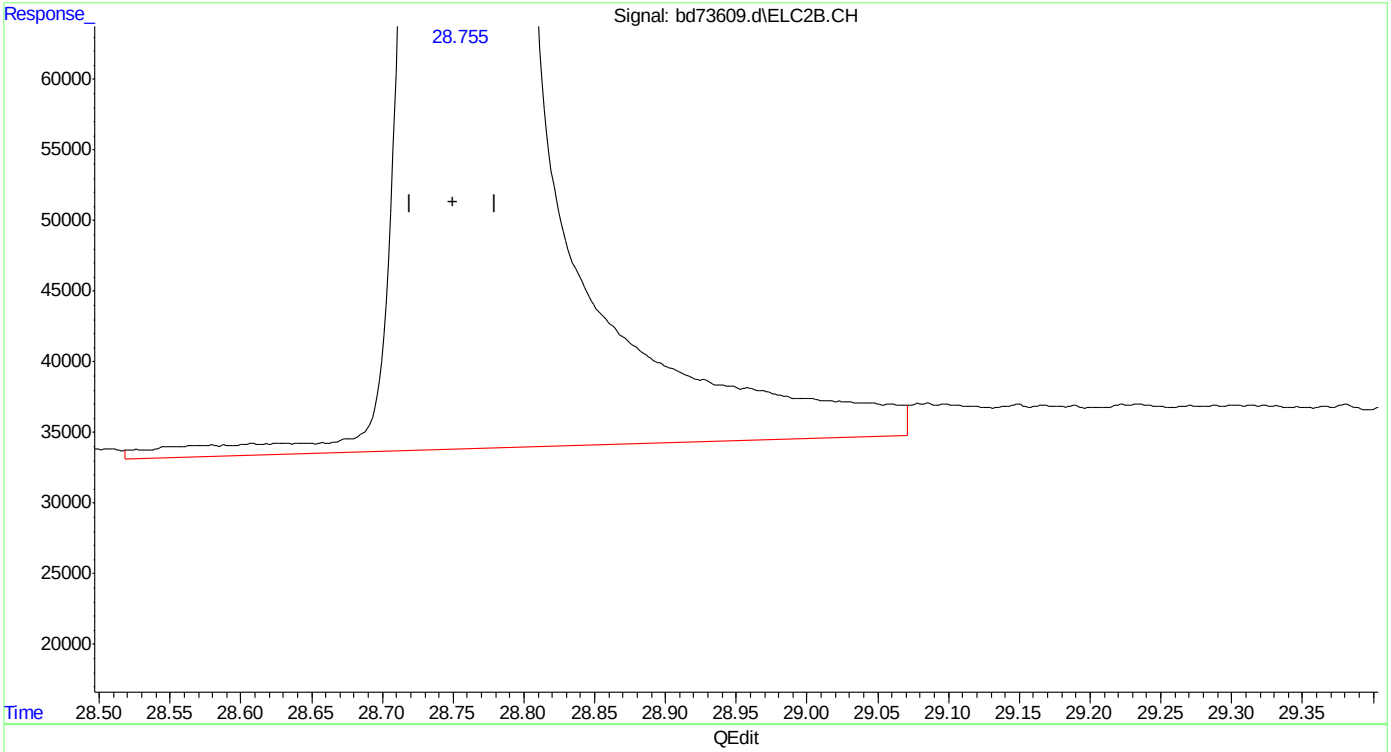
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73609.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 08:30:46
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 09:16:48 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.756min 50.218 ppb

response 18108682

(+) = Expected Retention Time

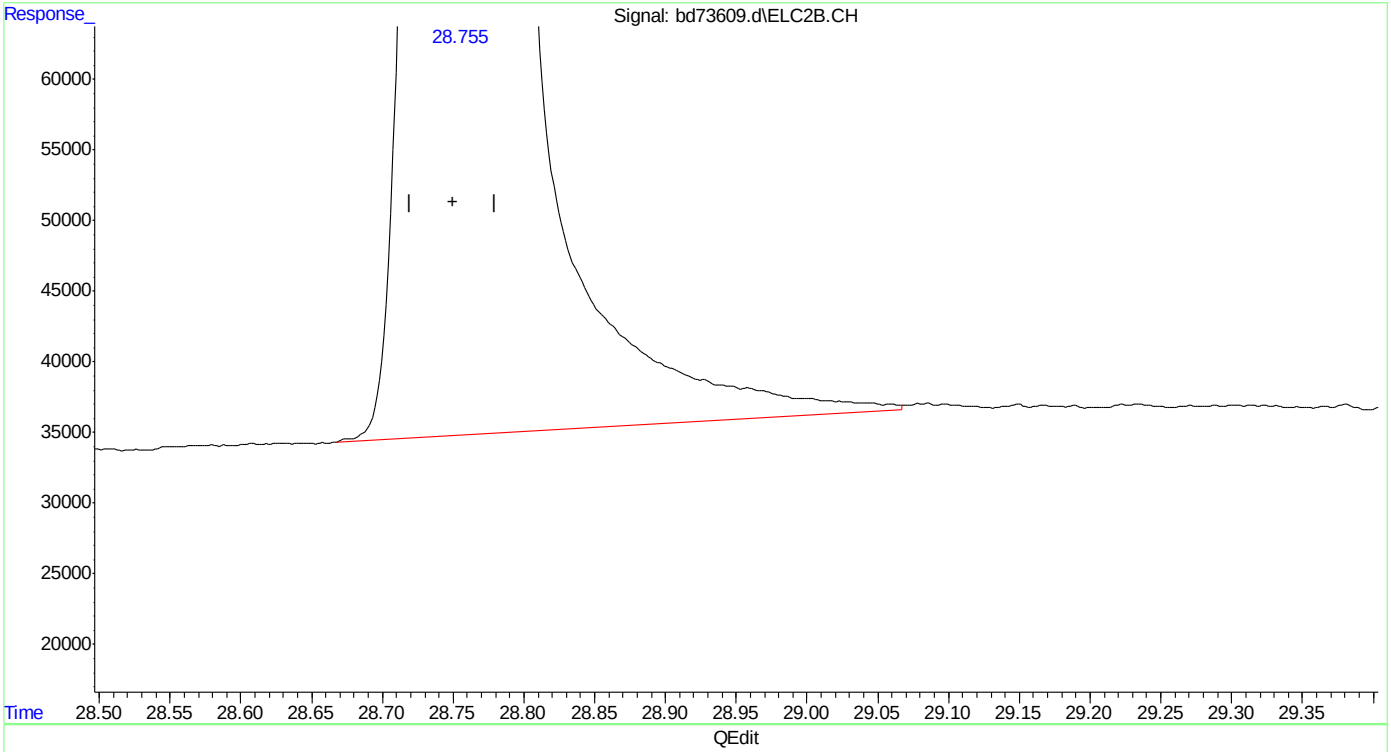
bd160518vph.M Wed May 18 09:17:36 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73609.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 08:30:46
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 09:16:48 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.755min 49.191 ppb m
response 17734121

(+) = Expected Retention Time
bd160518vph.M Wed May 18 09:17:41 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/18/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 09:08:29
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 09:43:27 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.421	33543698	49.300 ppb	
Spiked Amount 50.000		Recovery	= 98.60%	
6) s 2,3,4-trifluorotoluene	21.237	25805253	49.530 ppb	
Spiked Amount 50.000		Recovery	= 99.06%	
16) s fluorobenzene #2	16.421	14424746	42.519 ppb	
Spiked Amount 50.000		Recovery	= 85.04%	
18) s 2,3,4-trifluorotoluen...	21.237	8109344	41.194 ppb	
Spiked Amount 50.000		Recovery	= 82.39%	
Target Compounds				
1) h rt5.5-7	7.470	24694515	40.040 ppb	m
2) h rt7/10	9.920	30117028	48.832 ppb	m
3) h rt10/13	15.200	26463897	42.909 ppb	m
8) h rt20/25	22.840	30282236	37.842 ppb	m
10) h decane	24.930	28744183	35.920 ppb	m
11) h butylcyclohexane	25.908	33382444	41.716 ppb	
14) mtbe #2	10.679f	7397879	48.004 ppb	m
15) benzene #2	15.927	21973087	45.436 ppb	
17) toluene #2	20.219	20431978	45.132 ppb	
19) ethylbenzene #2	23.172	18275104	44.035 ppb	
20) m,p-xylene #2	23.308	44350363	88.978 ppb	
21) o-xylene #2	24.030	18719924	43.056 ppb	
22) t 1,3,5-trimethylbenzen...	25.272	26786783	39.919 ppb	
23) 1,2,4-trimethylbenzen...	25.749	21041521	42.778 ppb	
24) naphthalene #2	28.754	17312282	48.034 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21062524	42.840 ppb	m

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

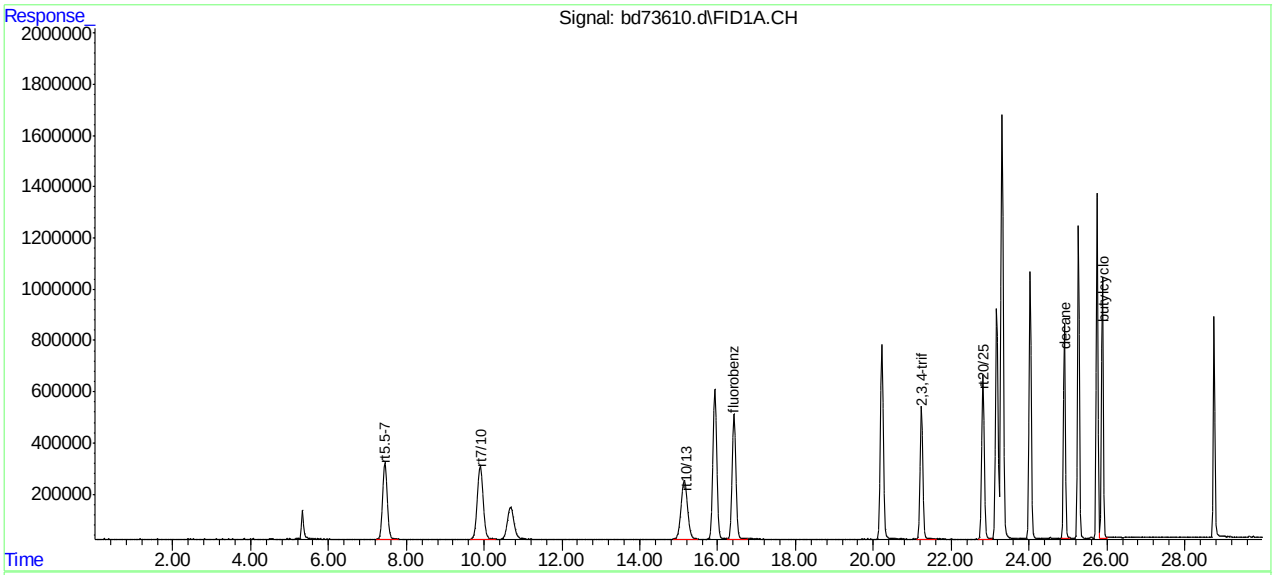
SGS ACCUTEST MC45969

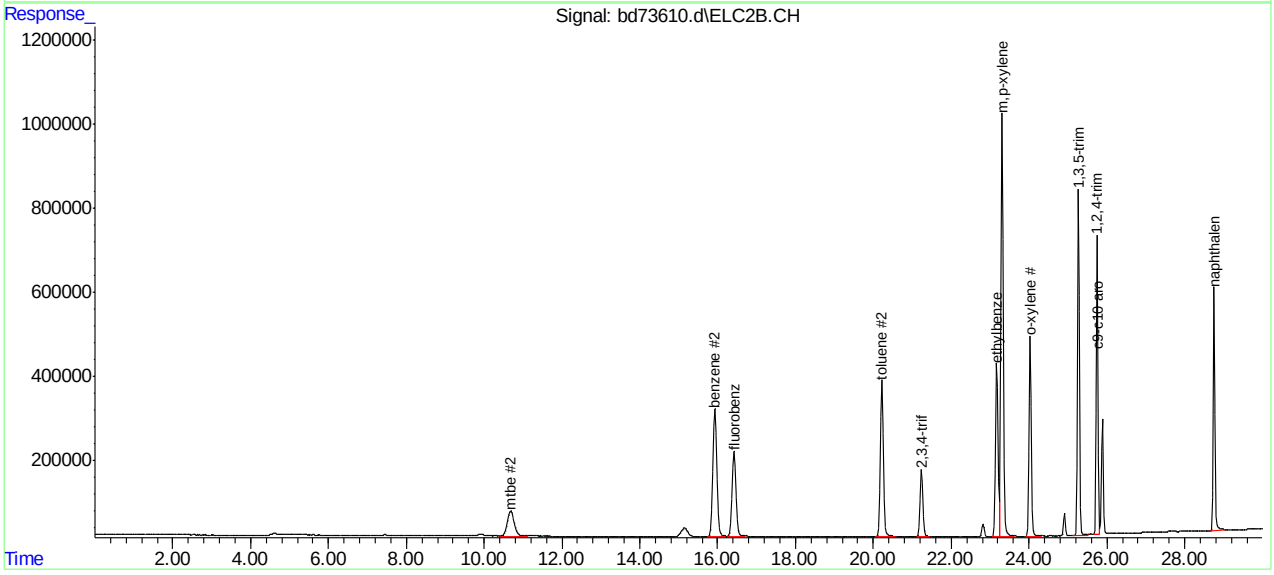
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 09:08:29
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

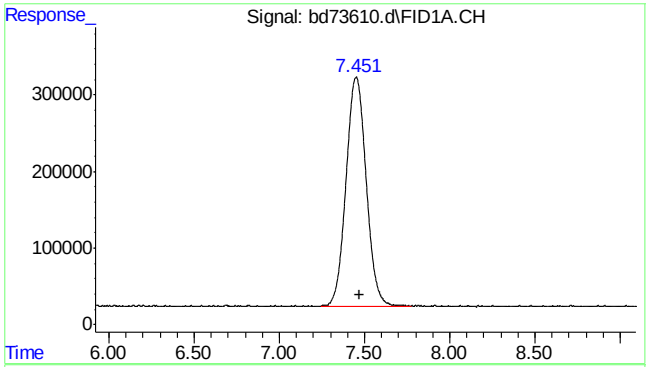
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 09:43:27 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



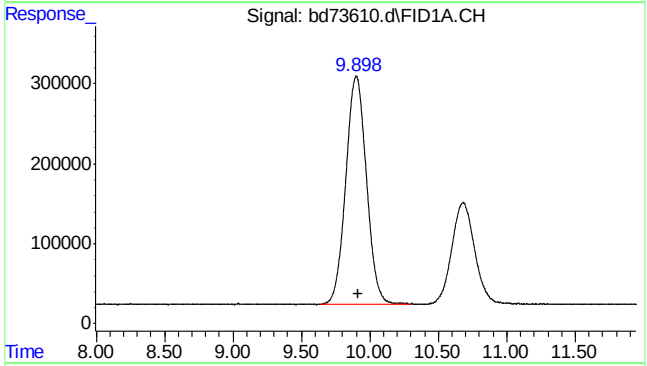


bd160518vph.M Wed May 18 12:28:31 2016 Page: 2



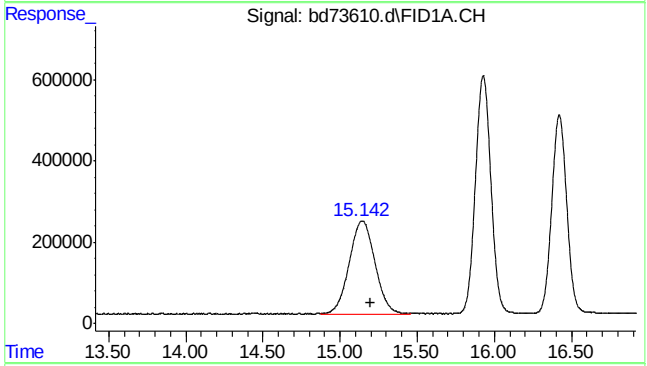
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 24694515
Conc: 40.04 ppb m



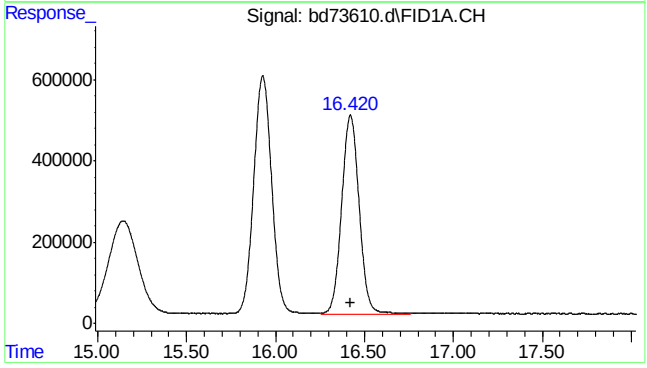
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 30117028
Conc: 48.83 ppb m



#3 rt10/13

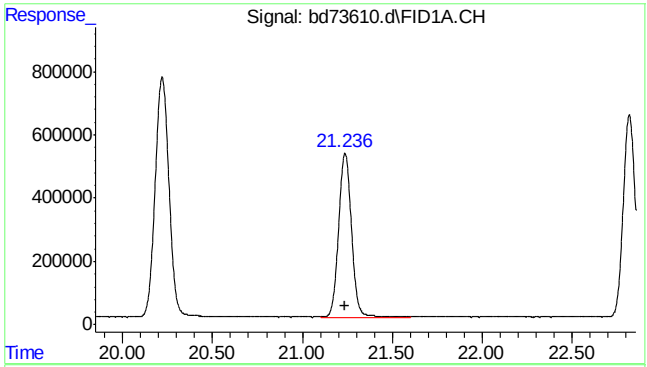
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 26463897
Conc: 42.91 ppb m



#4 fluorobenzene

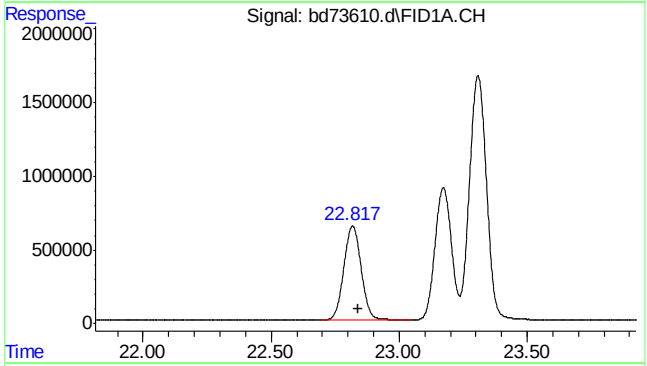
R.T.: 16.421 min
Delta R.T.: -0.003 min
Response: 33543698
Conc: 49.30 ppb

SGS ACCUTEST MC45969



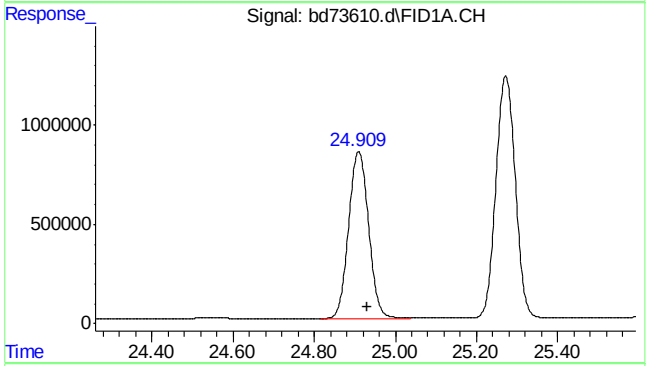
#6 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 25805253
Conc: 49.53 ppb



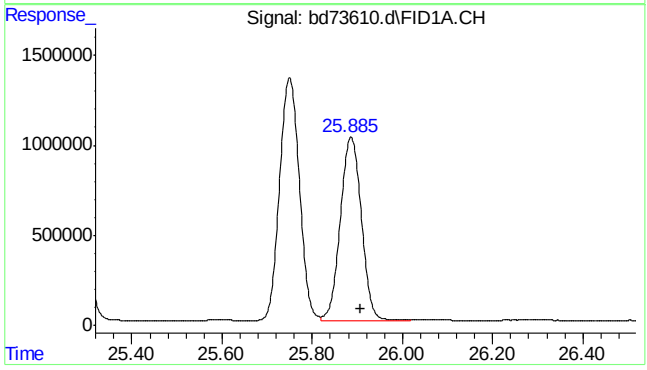
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 30282236
Conc: 37.84 ppb m



#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 28744183
Conc: 35.92 ppb m



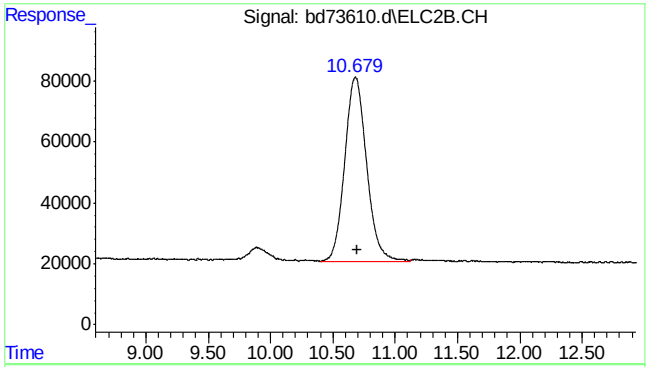
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 33382444
Conc: 41.72 ppb

7.3.2

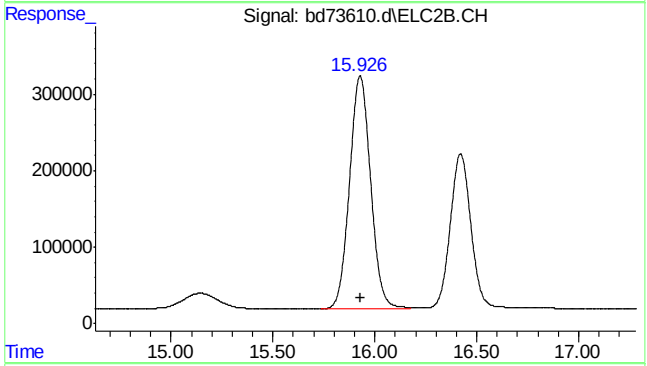
7

SGS ACCUTEST MC45969



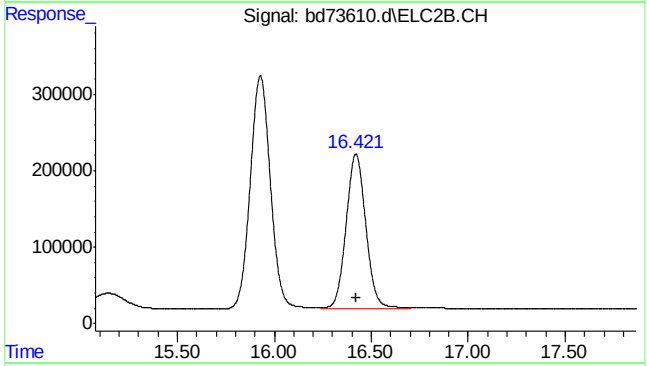
#14 mtbe #2

R.T.: 10.679 min
Delta R.T.: -0.017 min
Response: 7397879
Conc: 48.00 ppb m



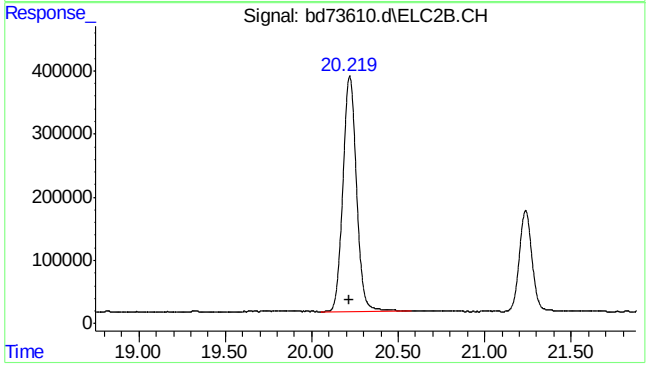
#15 benzene #2

R.T.: 15.927 min
Delta R.T.: -0.005 min
Response: 21973087
Conc: 45.44 ppb



#16 fluorobenzene #2

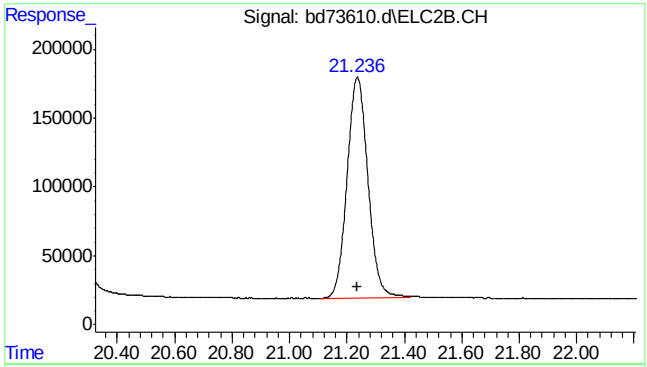
R.T.: 16.421 min
Delta R.T.: -0.003 min
Response: 14424746
Conc: 42.52 ppb



#17 toluene #2

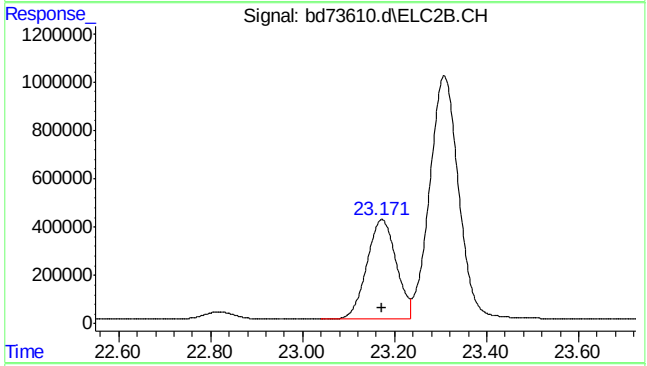
R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 20431978
Conc: 45.13 ppb

SGS ACCUTEST MC45969



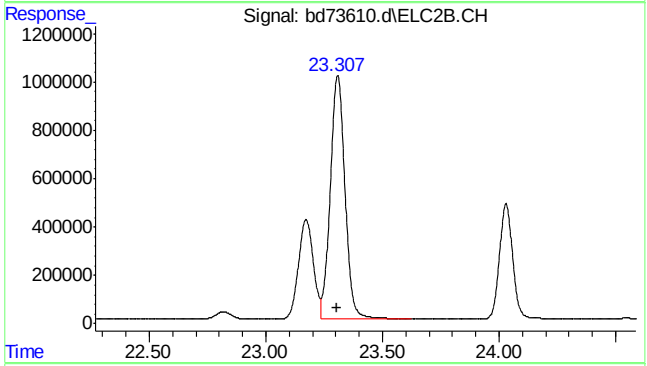
#18 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 8109344
Conc: 41.19 ppb



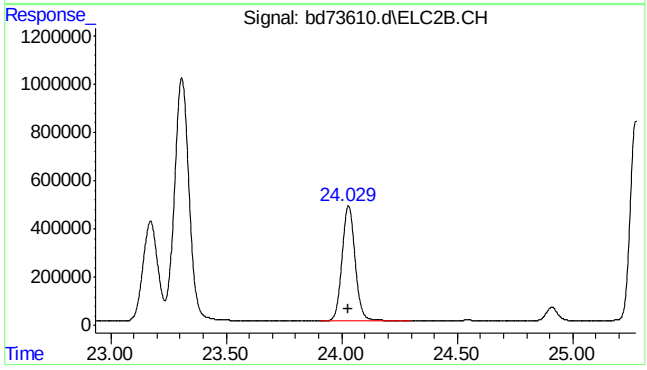
#19 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 18275104
Conc: 44.04 ppb



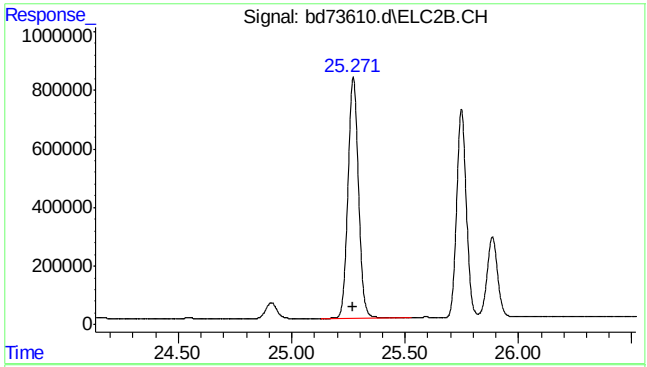
#20 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.000 min
Response: 44350363
Conc: 88.98 ppb



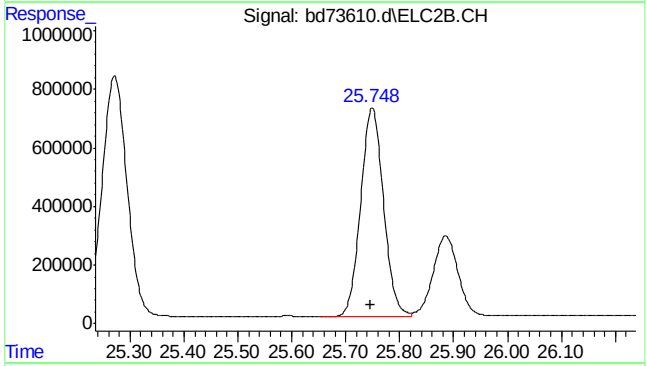
#21 o-xylene #2

R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 18719924
Conc: 43.06 ppb



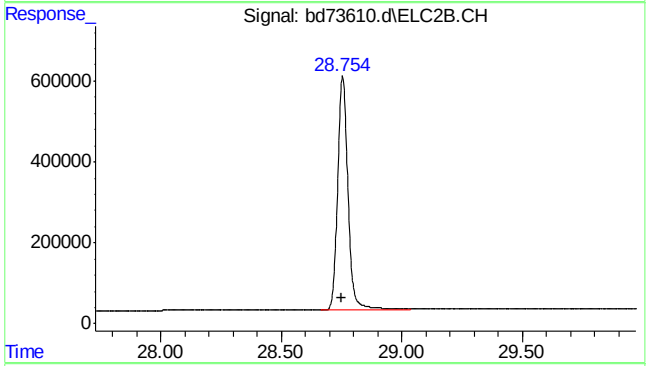
#22 1,3,5-trimethylbenzene #2

R.T.: 25.272 min
Delta R.T.: 0.004 min
Response: 26786783
Conc: 39.92 ppb



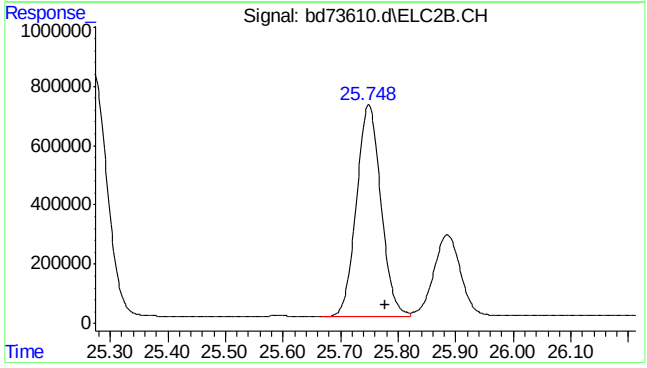
#23 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 21041521
Conc: 42.78 ppb



#24 naphthalene #2

R.T.: 28.754 min
Delta R.T.: 0.004 min
Response: 17312282
Conc: 48.03 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21062524
Conc: 42.84 ppb m

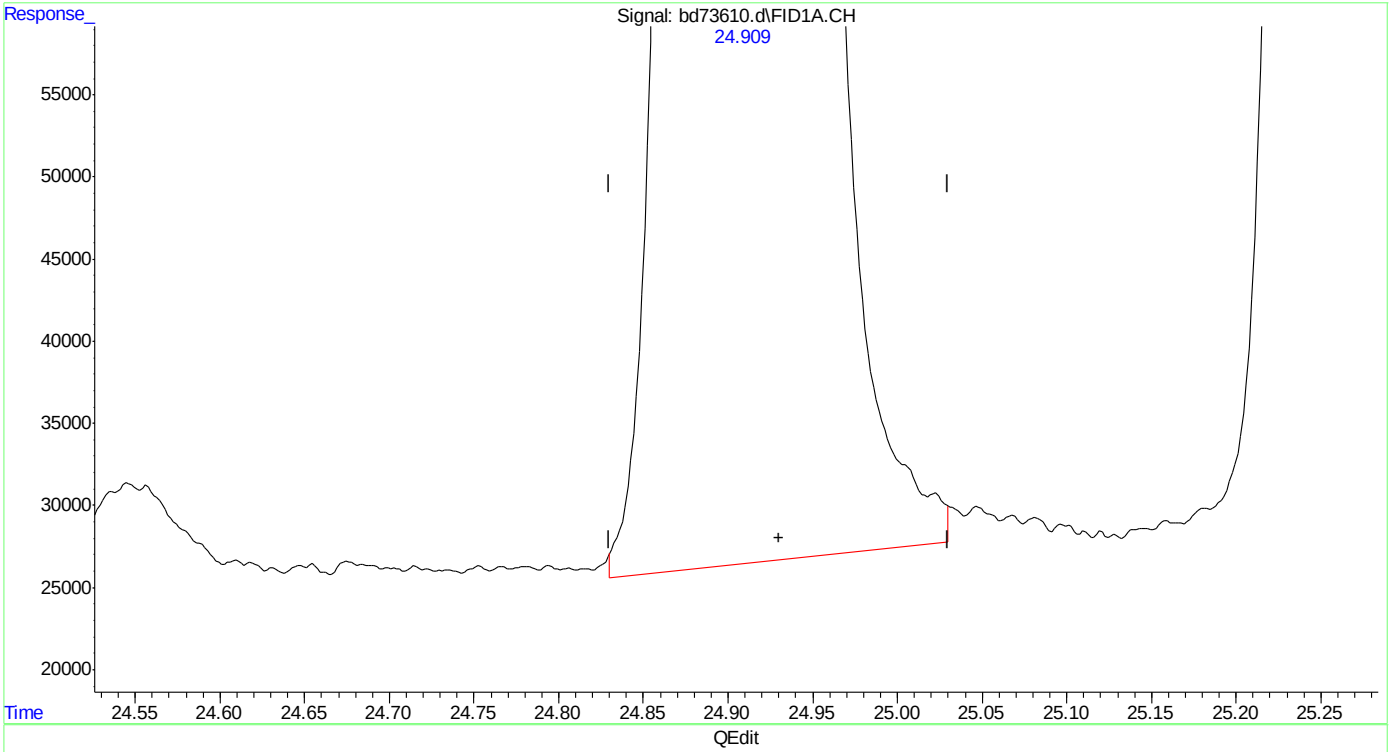
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 09:08:29
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 09:42:09 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(10) decane (h)

24.930min 35.849 ppb

response 28687259

(+) = Expected Retention Time

bd160518vph.M Wed May 18 09:42:44 2016

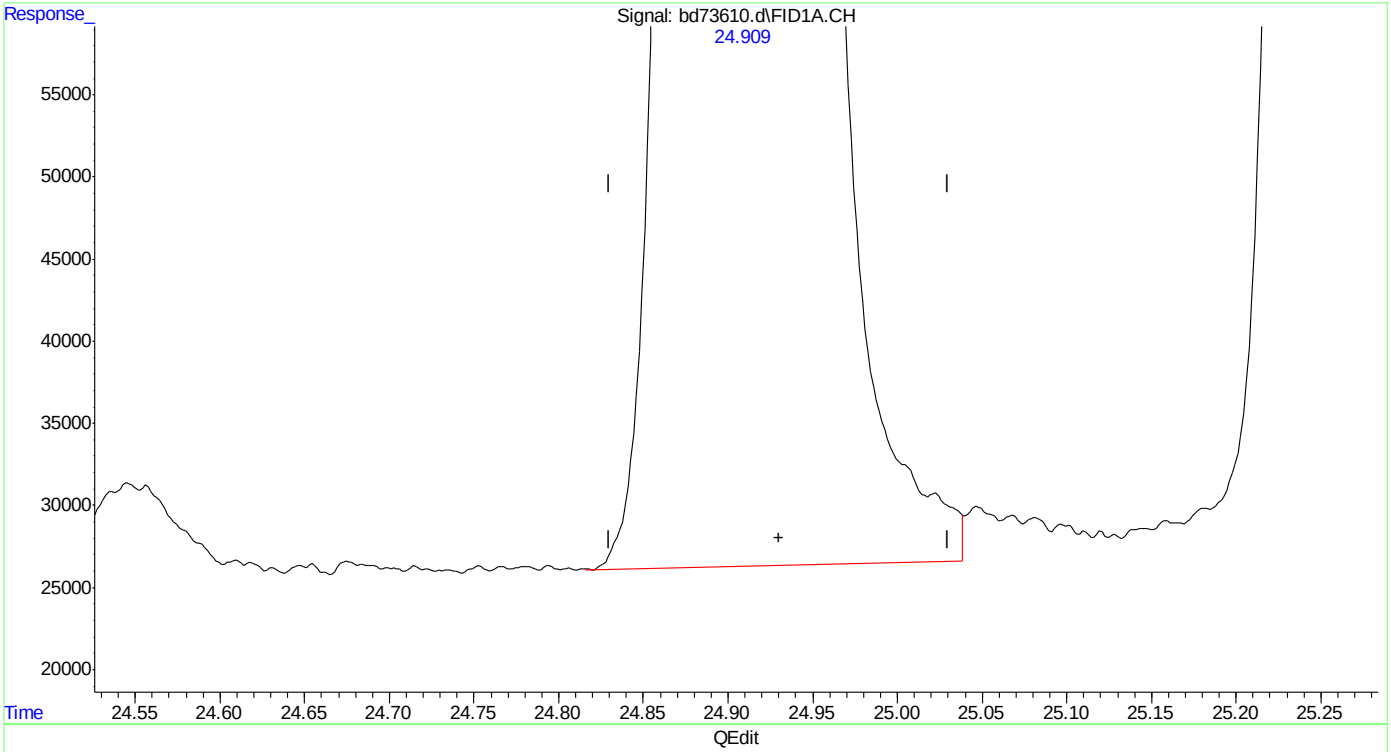
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 09:08:29
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 09:42:09 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(10) decane (h)

24.930min 35.920 ppb m

response 28744183

(+) = Expected Retention Time

bd160518vph.M Wed May 18 09:42:53 2016

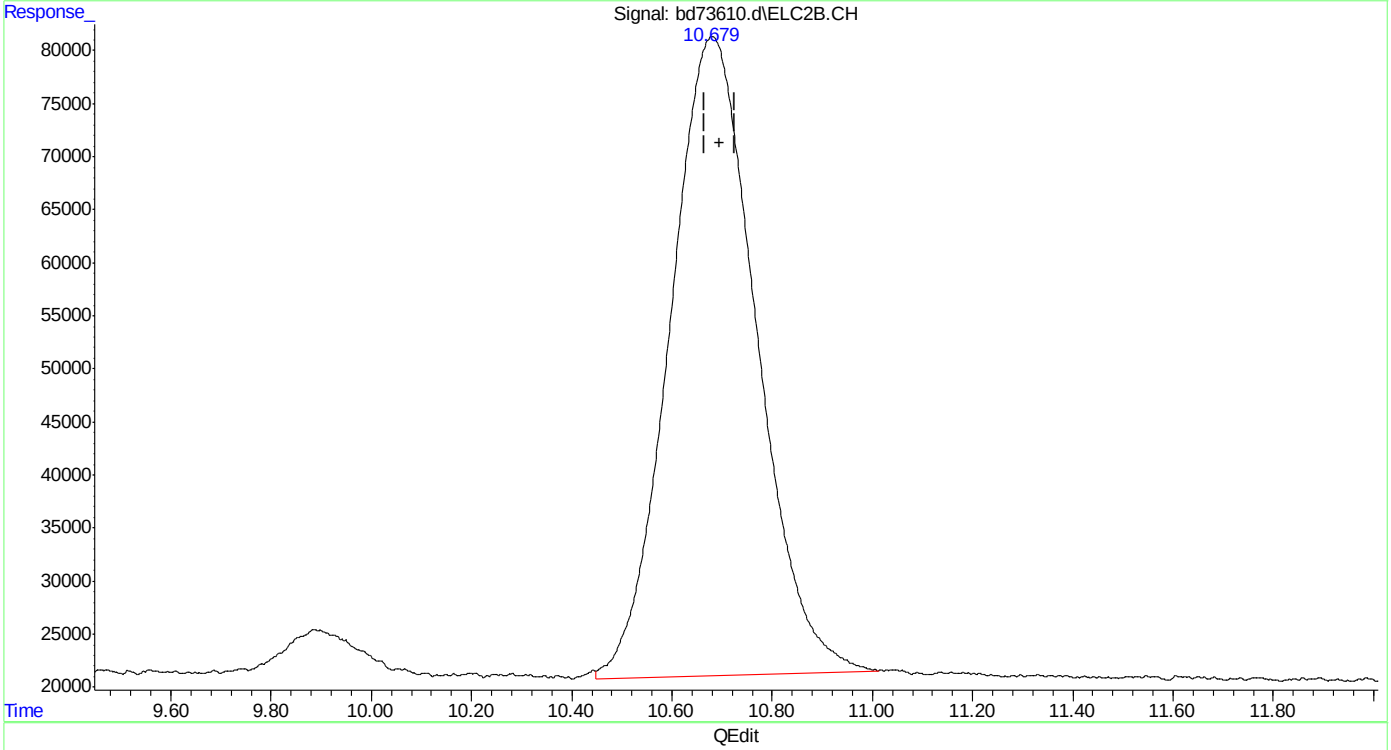
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 09:08:29
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 09:42:09 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

10.680min 46.859 ppb

response 7221290

(+) = Expected Retention Time

bd160518vph.M Wed May 18 09:43:02 2016

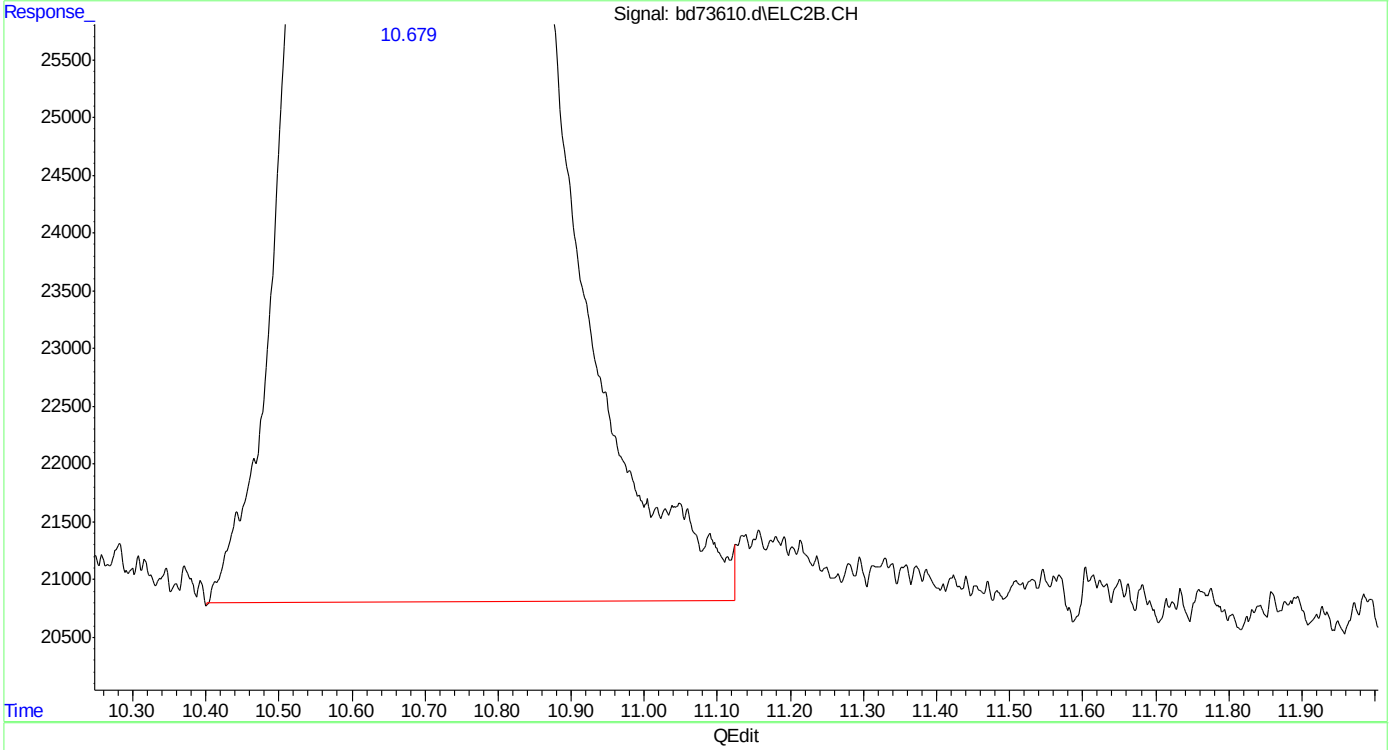
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 09:08:29
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 09:42:09 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

10.679min 48.004 ppb m

response 7397879

(+) = Expected Retention Time

bd160518vph.M Wed May 18 09:43:07 2016

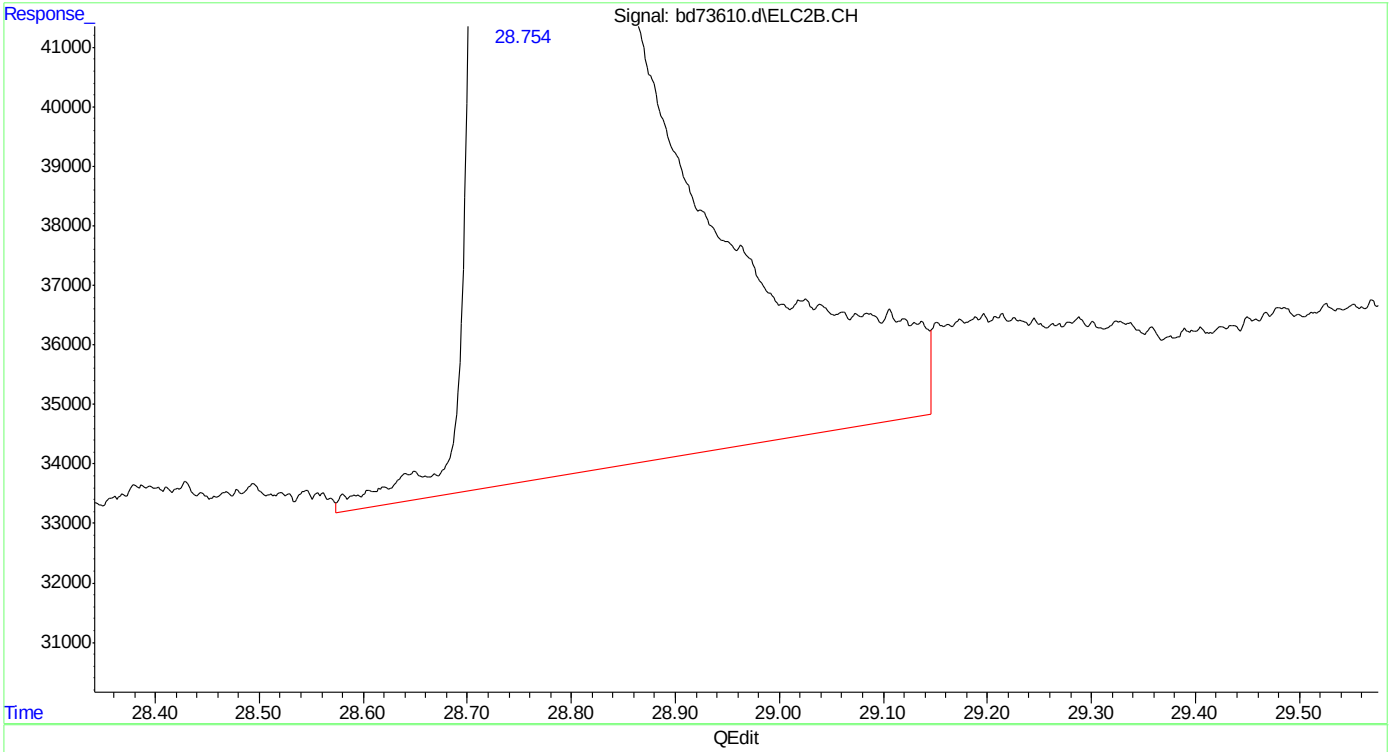
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 09:08:29
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 09:42:09 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.755min 48.692 ppb
response 17552245

(+) = Expected Retention Time
bd160518vph.M Wed May 18 09:43:17 2016

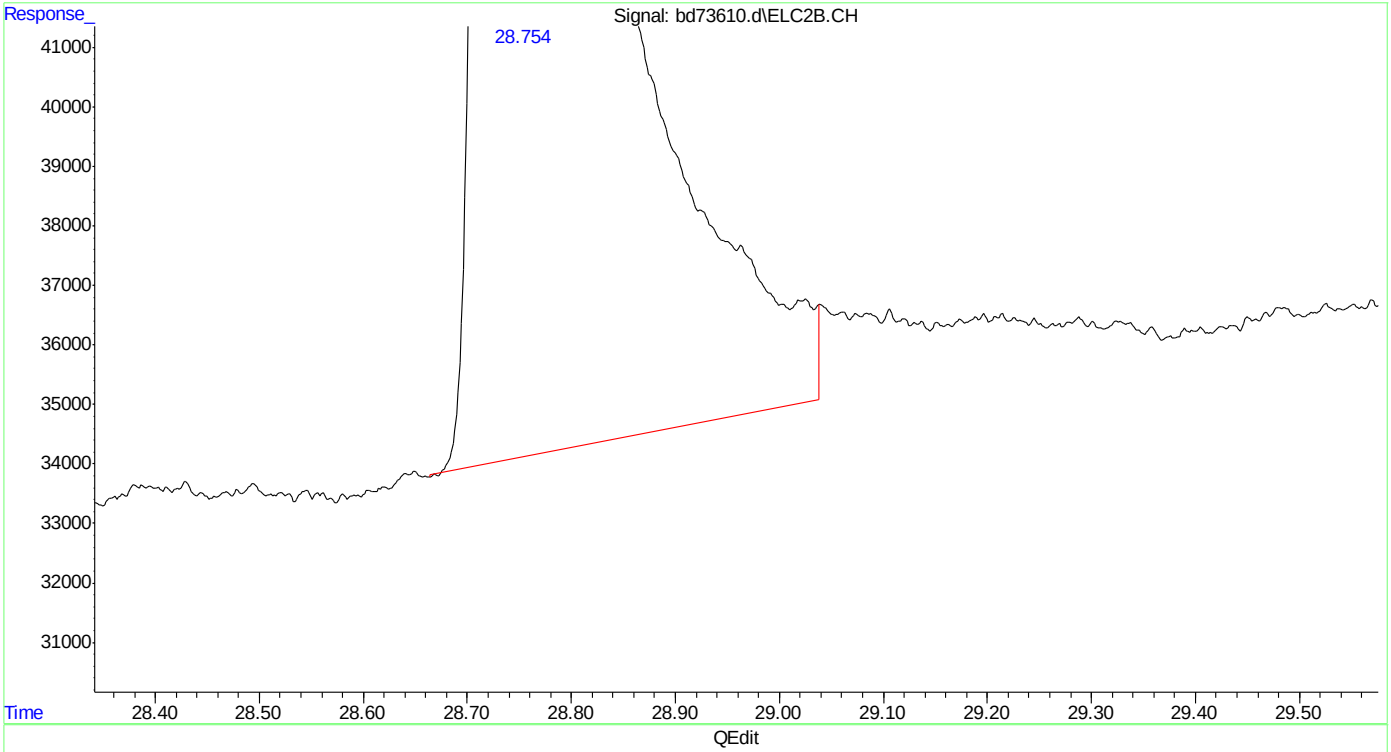
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73610.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 09:08:29
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 09:42:09 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.754min 48.034 ppb m
response 17312282

(+) = Expected Retention Time
bd160518vph.M Wed May 18 09:43:22 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/18/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73612.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 10:24:37
Operator : tonyf
Sample : mc45945-1ms,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 11:21:59 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.423	33995848	49.964	ppb	
Spiked Amount 50.000		Recovery =	99.93%		
6) s 2,3,4-trifluorotoluene	21.238	26046447	49.993	ppb	
Spiked Amount 50.000		Recovery =	99.99%		
16) s fluorobenzene #2	16.423	14319842	42.210	ppb	
Spiked Amount 50.000		Recovery =	84.42%		
18) s 2,3,4-trifluorotoluen...	21.238	8214880	41.730	ppb	
Spiked Amount 50.000		Recovery =	83.46%		
Target Compounds					
1) h rt5.5-7	7.470	26149127	42.399	ppb	m
2) h rt7/10	9.920	50122858	81.270	ppb	
3) h rt10/13	15.200	121905590	197.659	ppb	
8) h rt20/25	22.840	338775533	423.351	ppb	m
14) mtbe #2	10.677f	8014610	52.006	ppb	m
15) benzene #2	15.929	22086681	45.671	ppb	
17) toluene #2	20.220	20556529	45.407	ppb	
19) ethylbenzene #2	23.172	18399353	44.335	ppb	
20) m,p-xylene #2	23.308	43761308	87.796	ppb	
21) o-xylene #2	24.030	18686646	42.979	ppb	
23) 1,2,4-trimethylbenzen...	25.749	20708814	42.102	ppb	
24) naphthalene #2	28.753	18532314	51.380	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	67247764	136.780	ppb	m

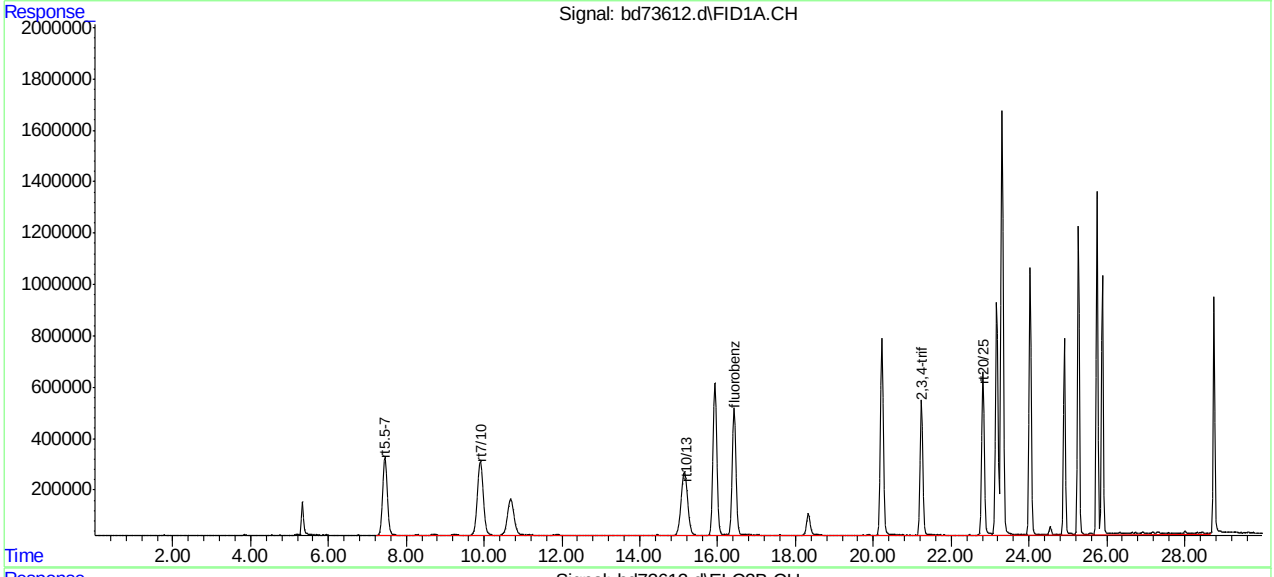
(f)=RT Delta > 1/2 Window (m)=manual int.

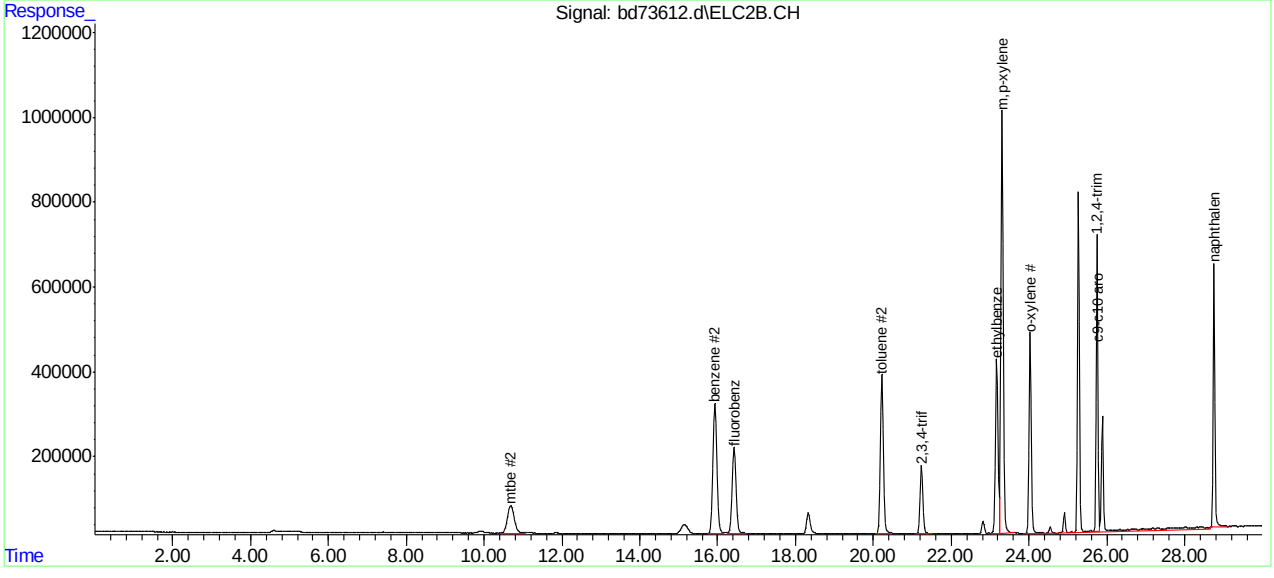
Quantitation Report (QT Reviewed)

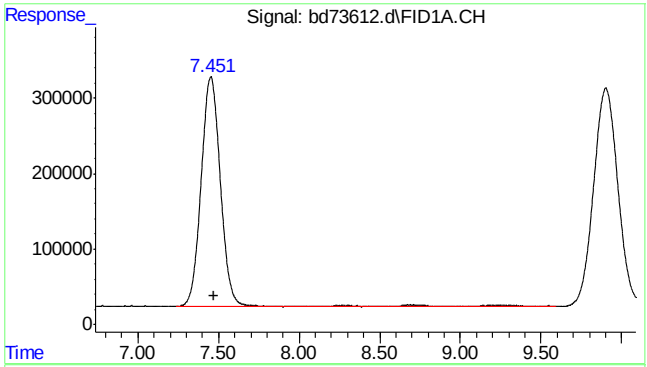
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73612.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 10:24:37
Operator : tonyf
Sample : mc45945-1ms,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 11:21:59 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

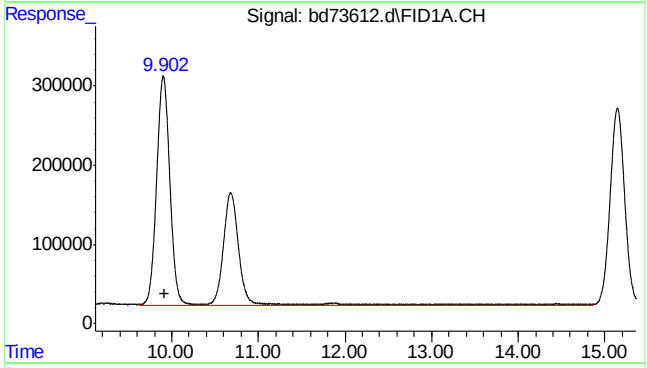






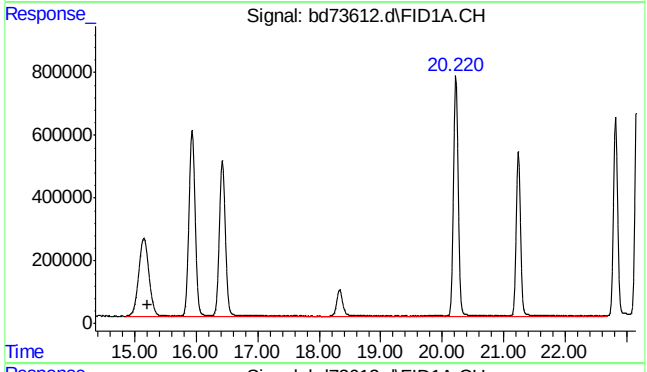
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26149127
Conc: 42.40 ppb m



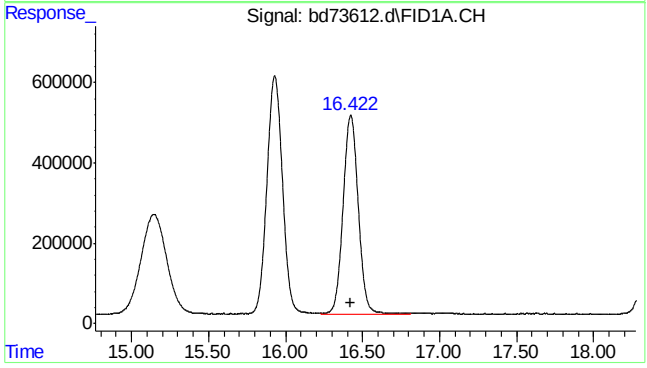
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 50122858
Conc: 81.27 ppb



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 121905590
Conc: 197.66 ppb



#4 fluorobenzene

R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 33995848
Conc: 49.96 ppb

7.4.1

7

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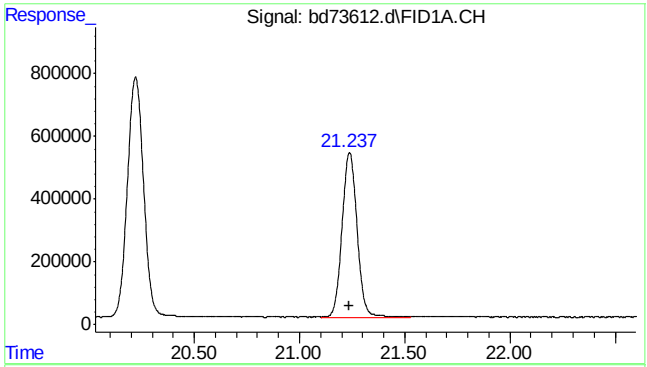
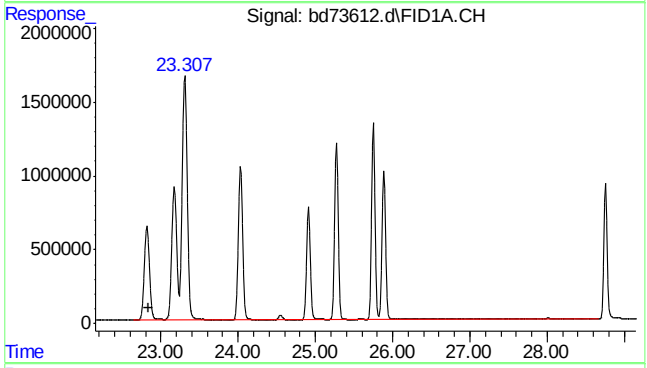


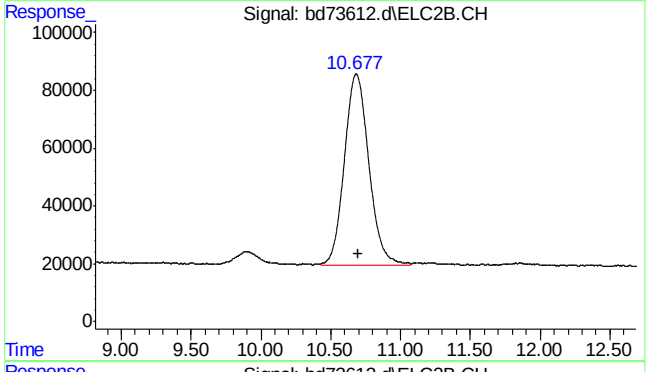
#6 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 26046447
Conc: 49.99 ppb



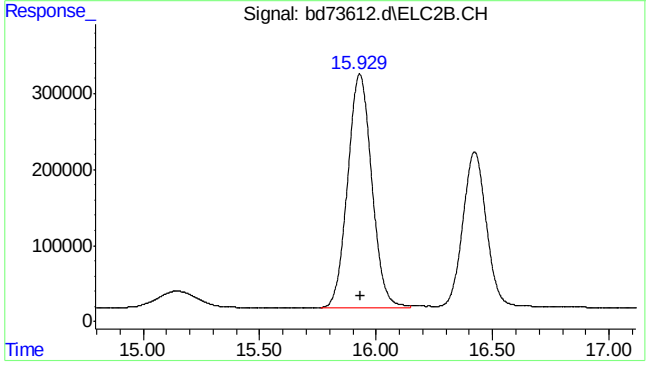
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 338775533
Conc: 423.35 ppb m



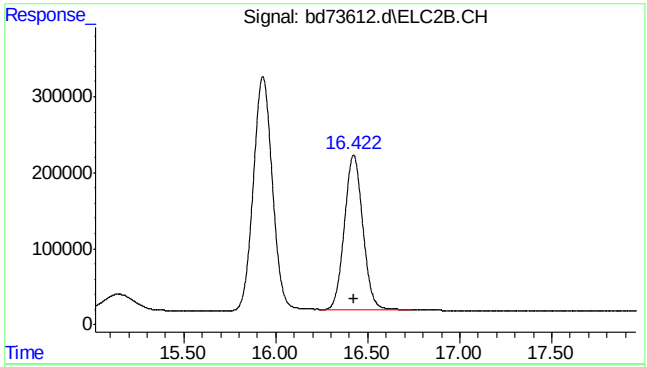
#14 mtbe #2

R.T.: 10.677 min
Delta R.T.: -0.019 min
Response: 8014610
Conc: 52.01 ppb m



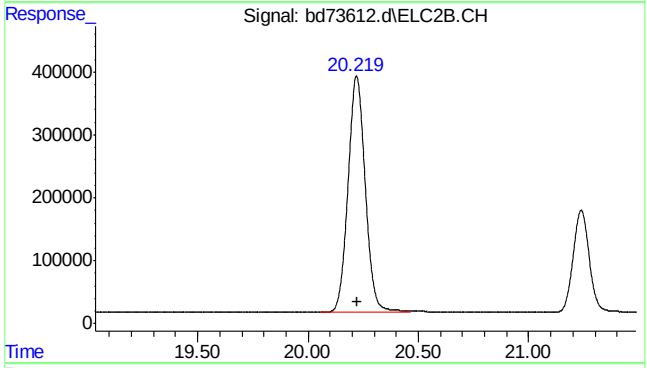
#15 benzene #2

R.T.: 15.929 min
Delta R.T.: -0.003 min
Response: 22086681
Conc: 45.67 ppb



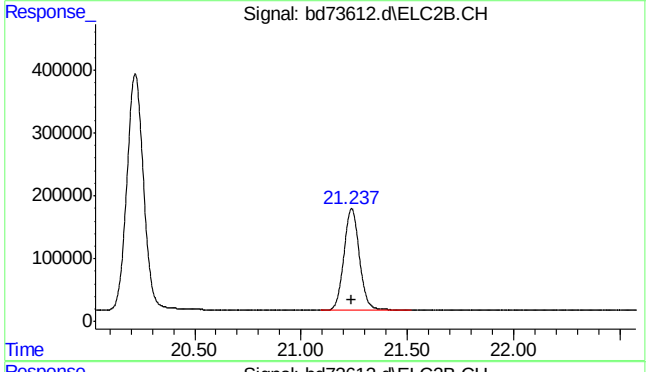
#16 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 14319842
Conc: 42.21 ppb



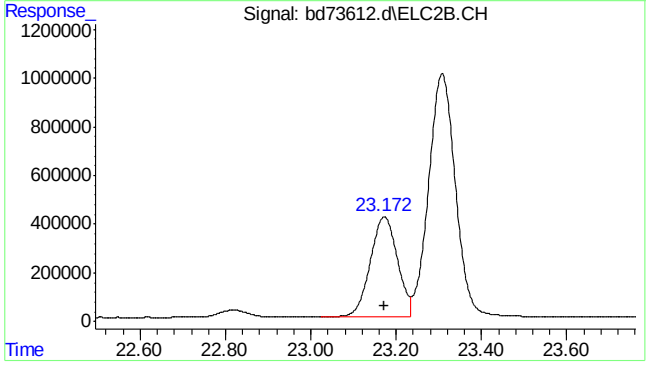
#17 toluene #2

R.T.: 20.220 min
Delta R.T.: -0.001 min
Response: 20556529
Conc: 45.41 ppb



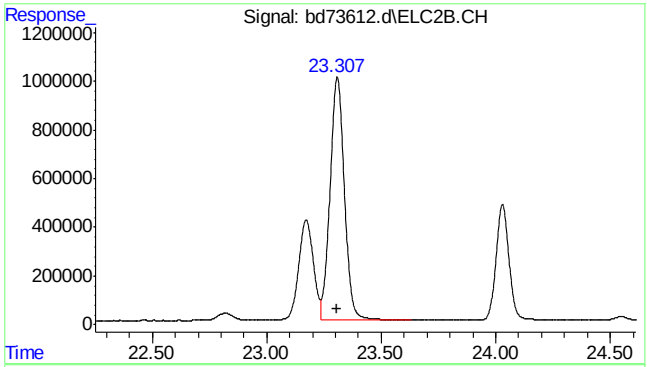
#18 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 8214880
Conc: 41.73 ppb



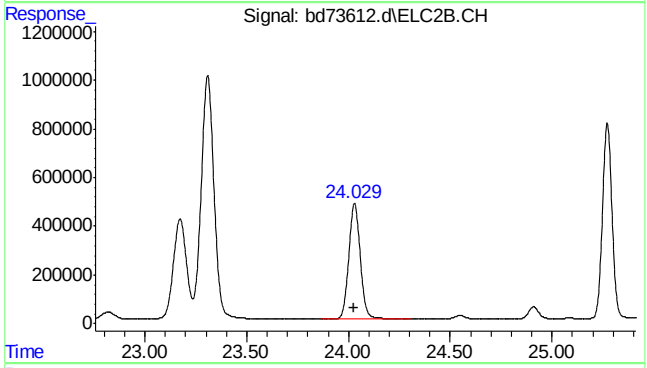
#19 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 18399353
Conc: 44.33 ppb



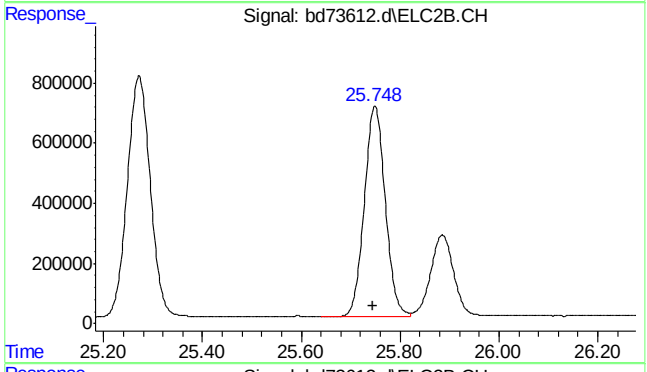
#20 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.000 min
Response: 43761308
Conc: 87.80 ppb



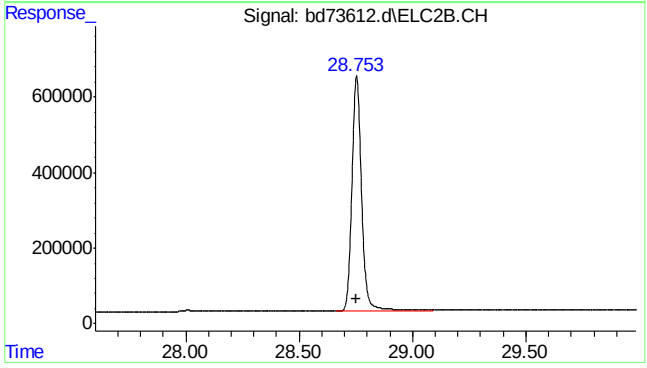
#21 o-xylene #2

R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 18686646
Conc: 42.98 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 20708814
Conc: 42.10 ppb



#24 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 18532314
Conc: 51.38 ppb m

7.4.1

7

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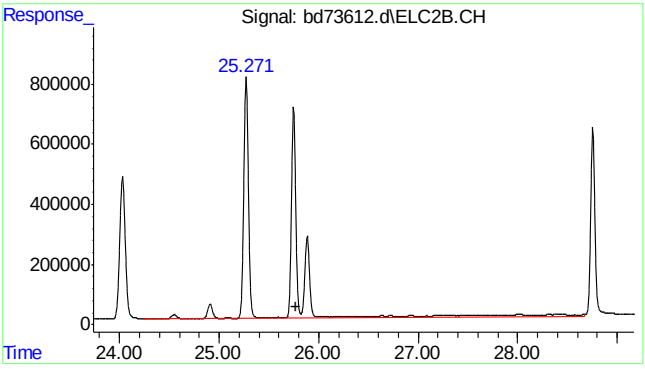


#25 c9-c10 arom as 1,2,4-tmb

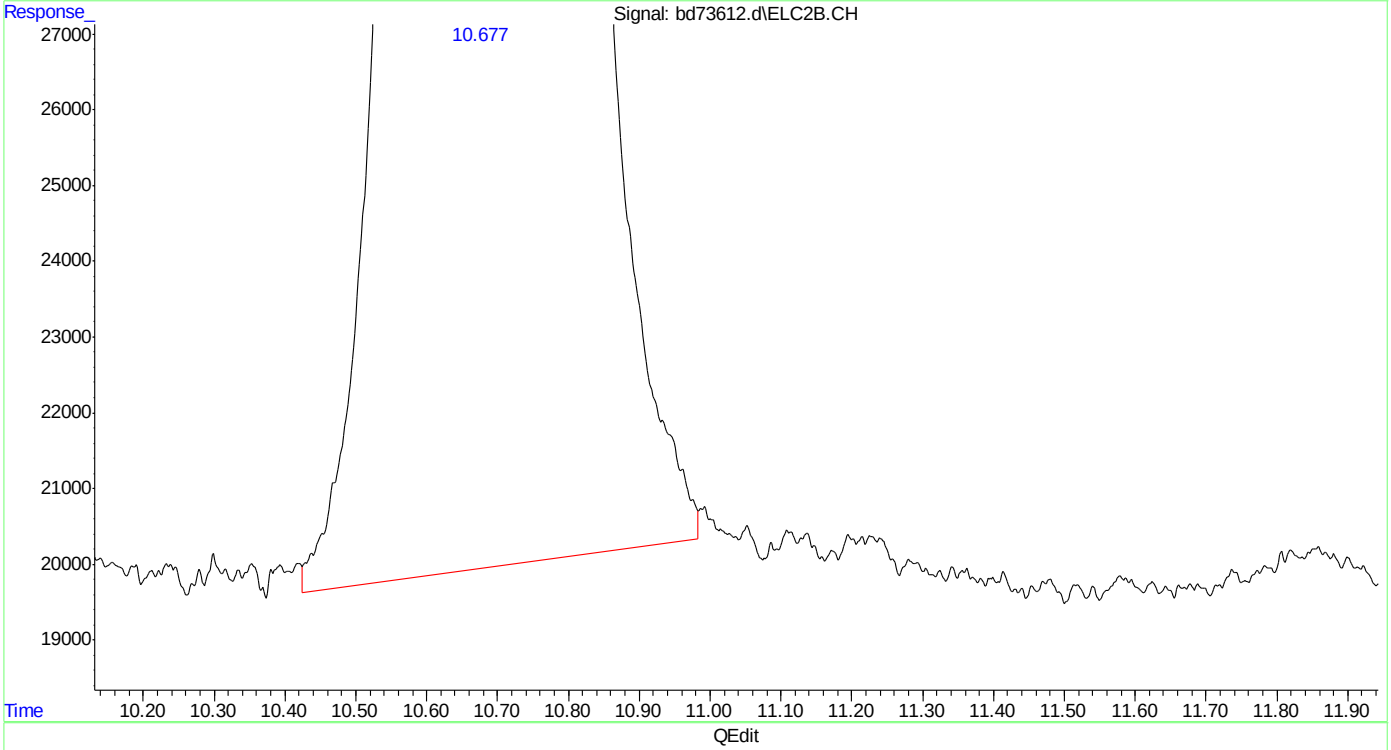
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 67247764
Conc: 136.78 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73612.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 10:24:37
Operator : tonyf
Sample : mc45945-1ms,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 11:20:52 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.679min 51.160 ppb
response 7884144

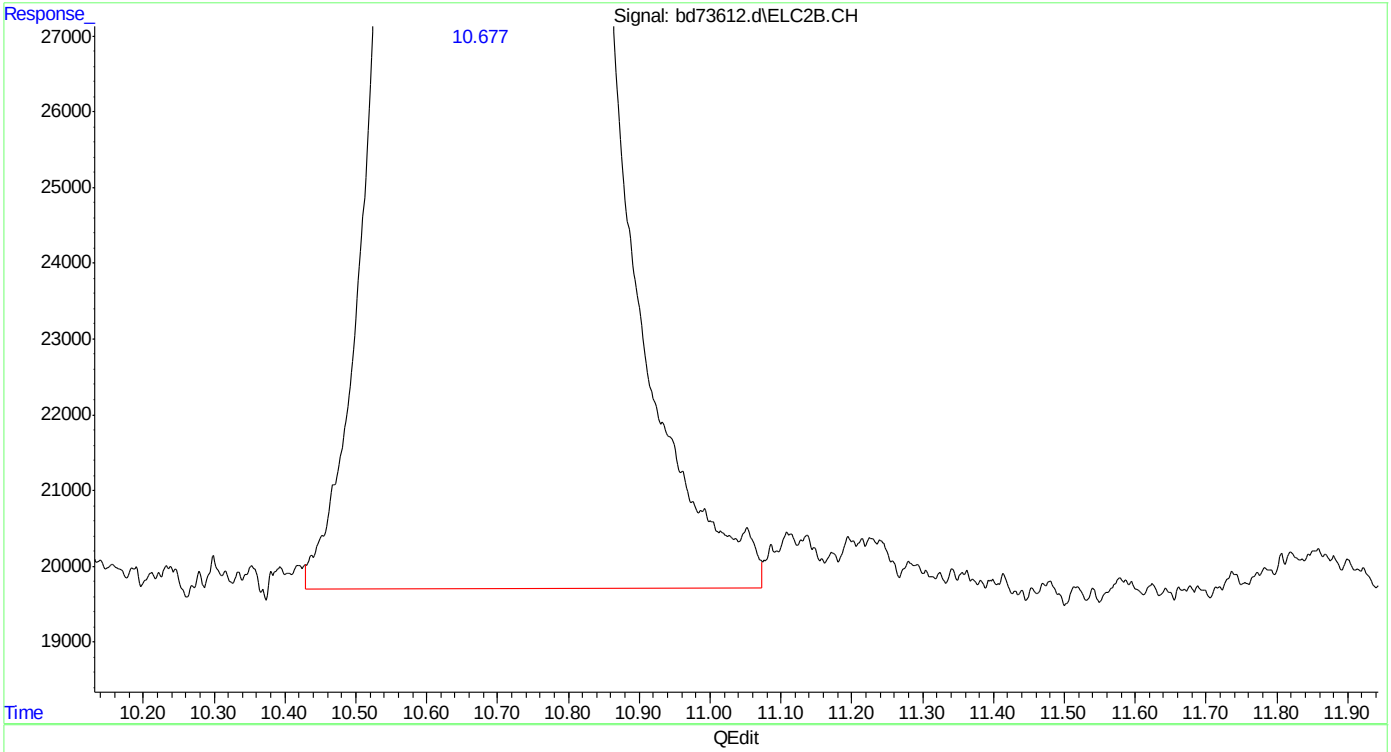
(+) = Expected Retention Time
bd160518vph.M Wed May 18 11:21:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73612.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 10:24:37
Operator : tonyf
Sample : mc45945-1ms,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 11:20:52 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.677min 52.006 ppb m
response 8014610

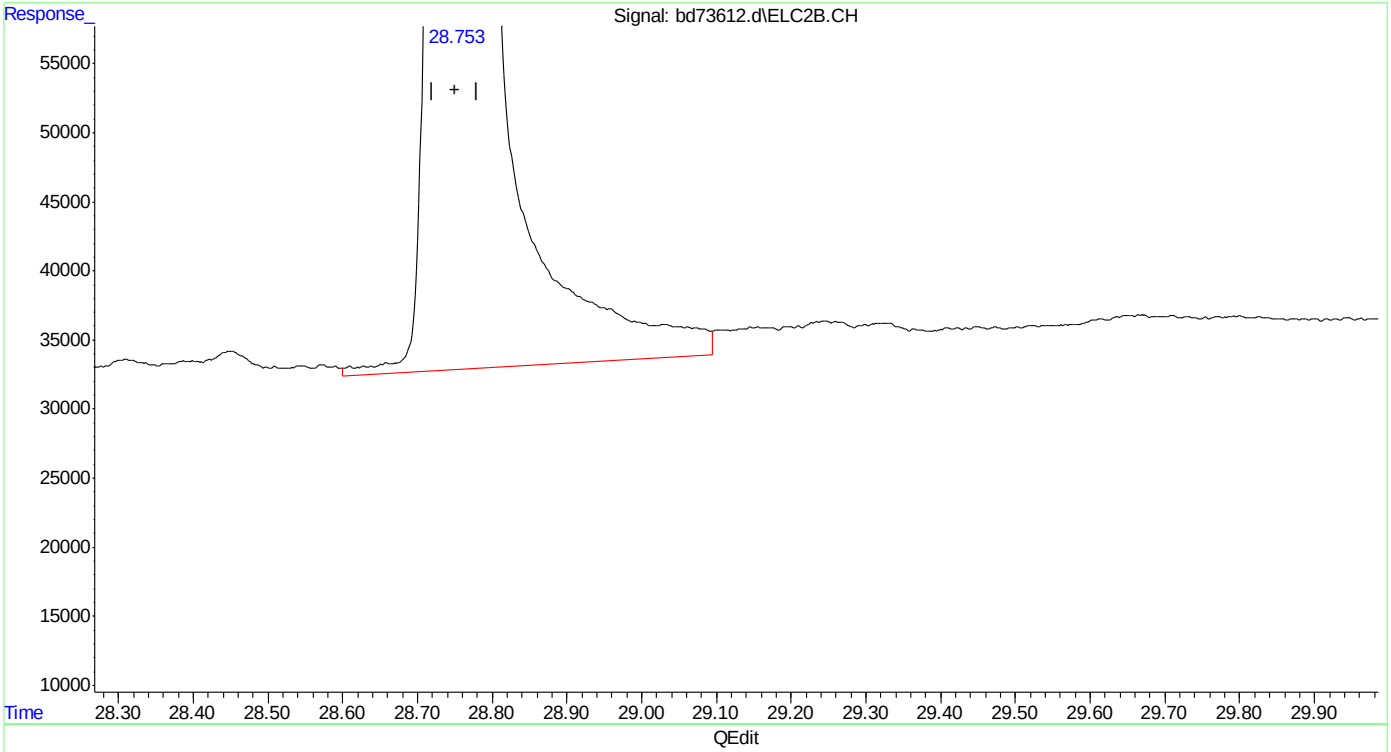
(+) = Expected Retention Time
bd160518vph.M Wed May 18 11:21:42 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73612.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 10:24:37
Operator  : tonyf
Sample    : mc45945-1ms,w,vmavph,00
Misc      : gc26249,gbd3638,,,,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 18 11:20:52 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.754min 52.023 ppb

response 18766798

(+) = Expected Retention Time

bd160518vph.M Wed May 18 11:21:49 2016

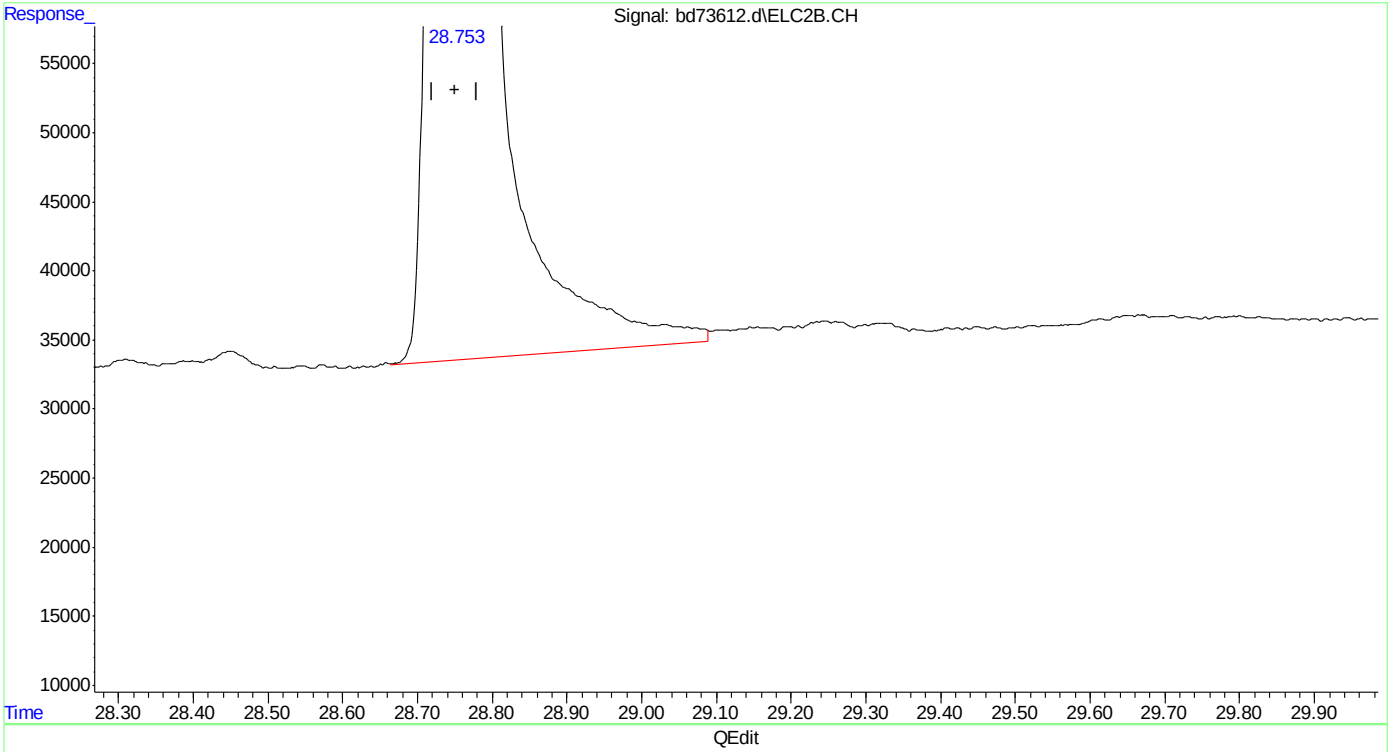
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73612.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 10:24:37
Operator : tonyf
Sample : mc45945-1ms,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 11:20:52 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.753min 51.380 ppb m
response 18532314

(+) = Expected Retention Time
bd160518vph.M Wed May 18 11:21:54 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/18/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73613.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:03:05
Operator : tonyf
Sample : mc45945-1msd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 12:06:07 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.423	34107160	50.128 ppb	
Spiked Amount 50.000		Recovery	= 100.26%	
6) s 2,3,4-trifluorotoluene	21.238	26004058	49.911 ppb	
Spiked Amount 50.000		Recovery	= 99.82%	
16) s fluorobenzene #2	16.422	14308750	42.177 ppb	
Spiked Amount 50.000		Recovery	= 84.35%	
18) s 2,3,4-trifluorotoluen...	21.237	8267500	41.998 ppb	
Spiked Amount 50.000		Recovery	= 84.00%	
Target Compounds				
1) h rt5.5-7	7.470	25751805	41.754 ppb	m
2) h rt7/10	9.920	49741915	80.652 ppb	
3) h rt10/13	15.200	120248534	194.973 ppb	
8) h rt20/25	22.840	327266835	408.969 ppb	m
14) mtbe #2	10.678f	8118718	52.682 ppb	m
15) benzene #2	15.930	22281584	46.074 ppb	
17) toluene #2	20.220	20669157	45.656 ppb	
19) ethylbenzene #2	23.172	18489910	44.553 ppb	
20) m,p-xylene #2	23.308	43968659	88.212 ppb	
21) o-xylene #2	24.029	18695075	42.998 ppb	
23) 1,2,4-trimethylbenzen...	25.749	20446704	41.569 ppb	
24) naphthalene #2	28.753	18989234	52.633 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	63841641	129.852 ppb	m

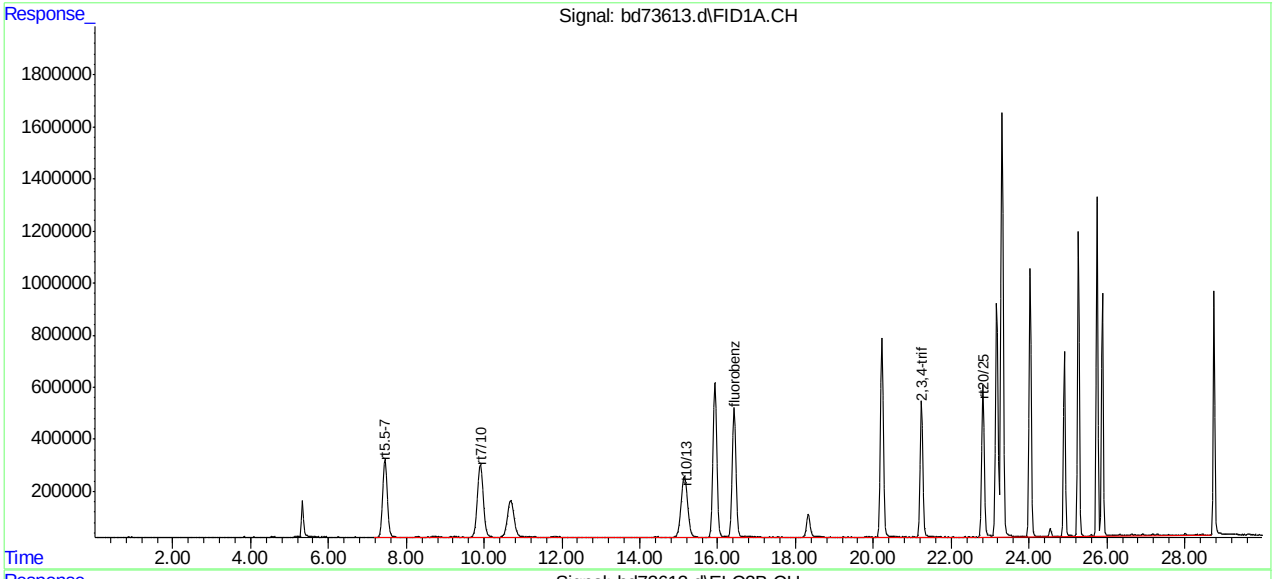
(f)=RT Delta > 1/2 Window (m)=manual int.

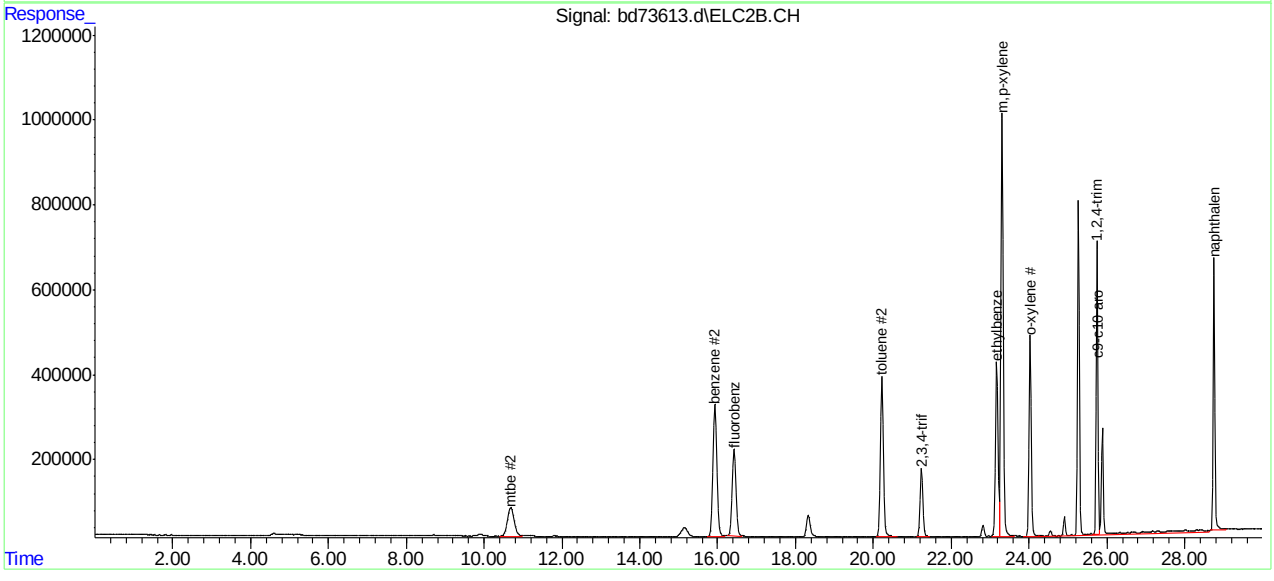
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73613.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:03:05
Operator : tonyf
Sample : mc45945-1msd,w,vmavph,00
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

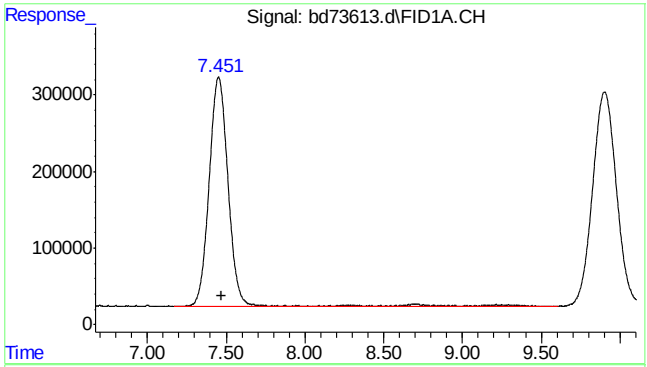
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 12:06:07 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



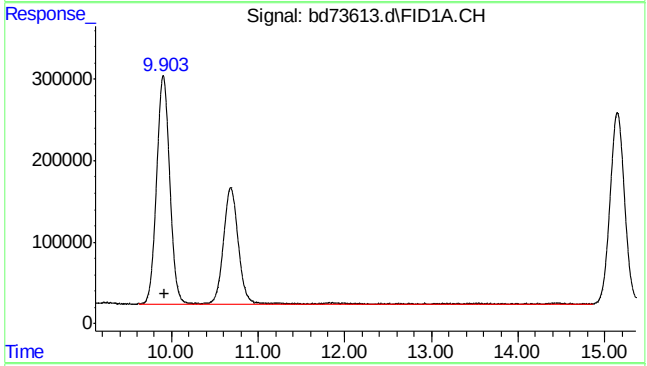


SGS ACCUTEST MC45969



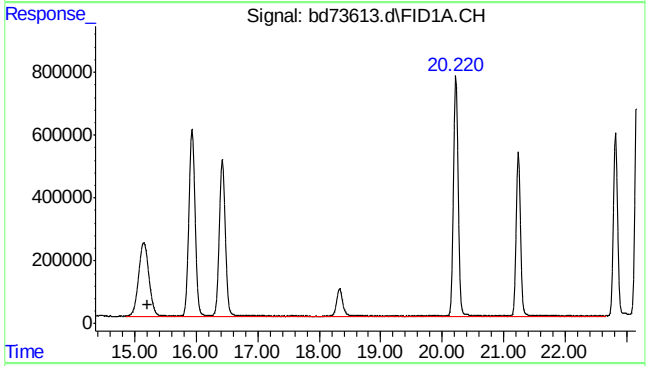
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25751805
Conc: 41.75 ppb m



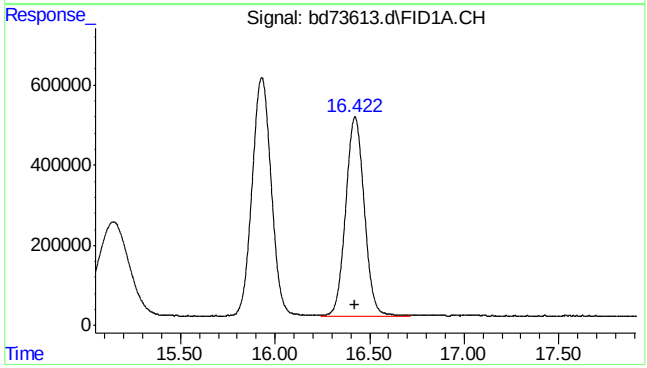
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 49741915
Conc: 80.65 ppb



#3 rt10/13

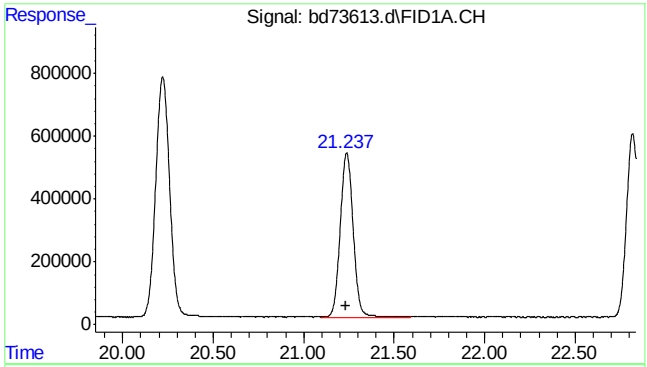
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 120248534
Conc: 194.97 ppb



#4 fluorobenzene

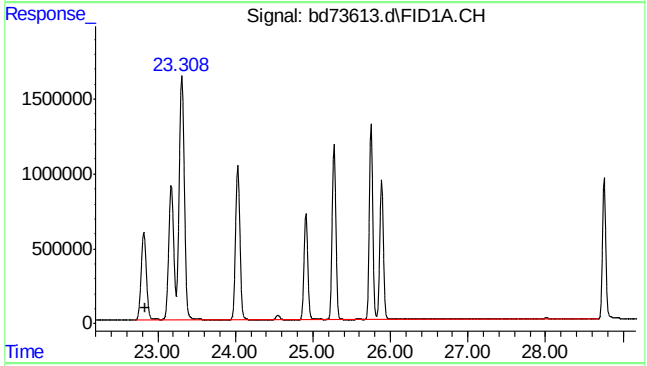
R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 34107160
Conc: 50.13 ppb

SGS ACCUTEST MC45969



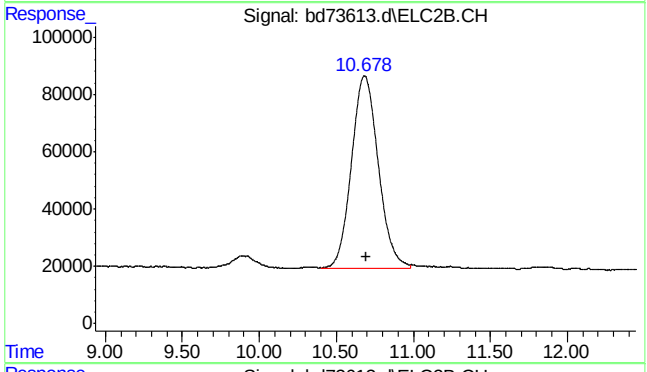
#6 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 26004058
Conc: 49.91 ppb



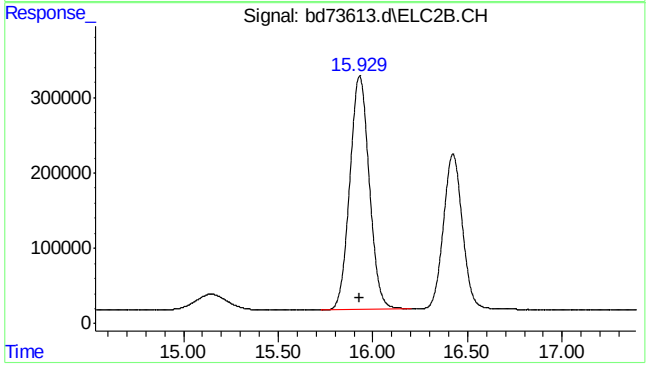
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 327266835
Conc: 408.97 ppb m



#14 mtbe #2

R.T.: 10.678 min
Delta R.T.: -0.018 min
Response: 8118718
Conc: 52.68 ppb m



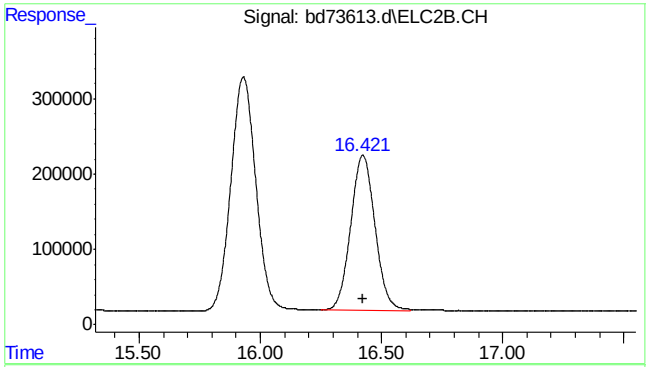
#15 benzene #2

R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 22281584
Conc: 46.07 ppb

7.4.2

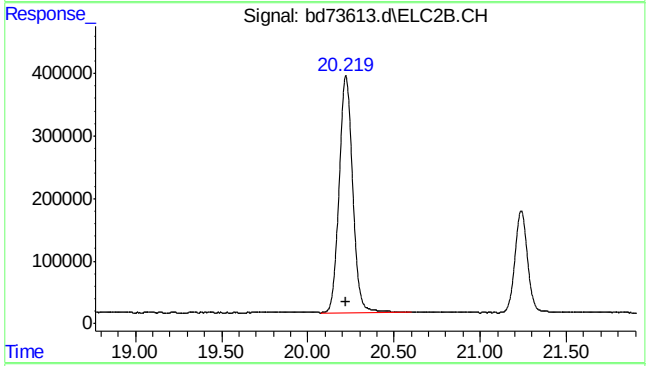
7

SGS ACCUTEST MC45969



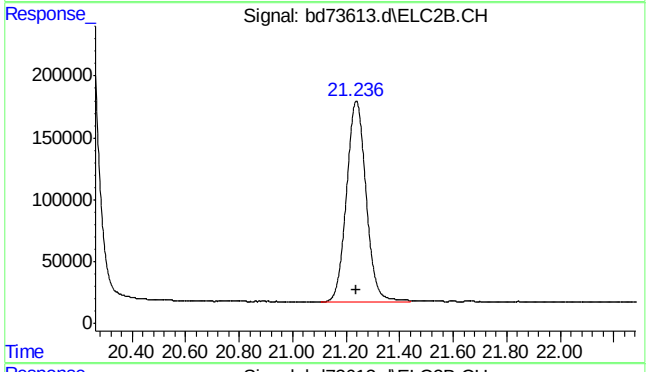
#16 fluorobenzene #2

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 14308750
Conc: 42.18 ppb



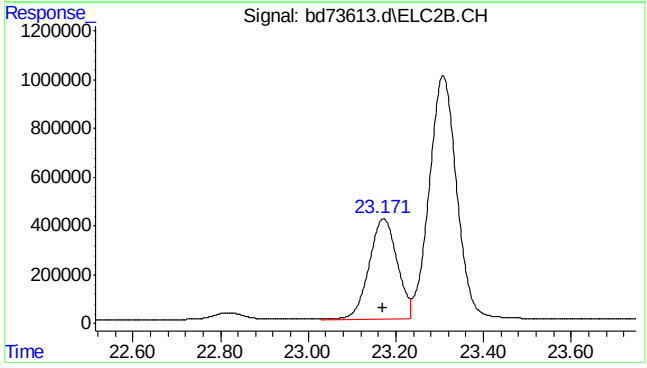
#17 toluene #2

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 20669157
Conc: 45.66 ppb



#18 2,3,4-trifluorotoluene #2

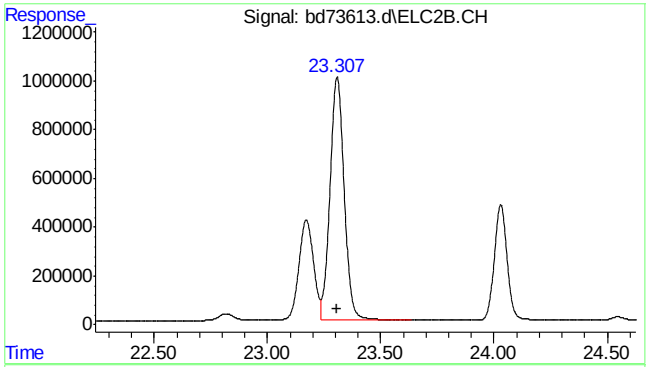
R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 8267500
Conc: 42.00 ppb



#19 ethylbenzene #2

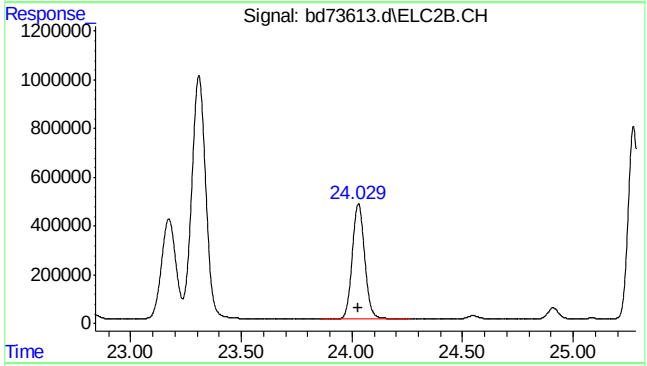
R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 18489910
Conc: 44.55 ppb

SGS ACCUTEST MC45969



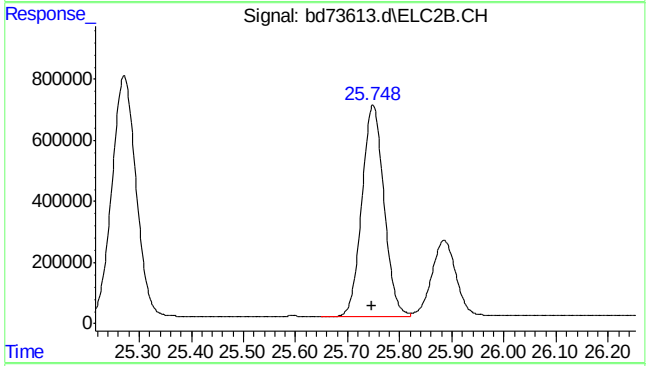
#20 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.000 min
Response: 43968659
Conc: 88.21 ppb



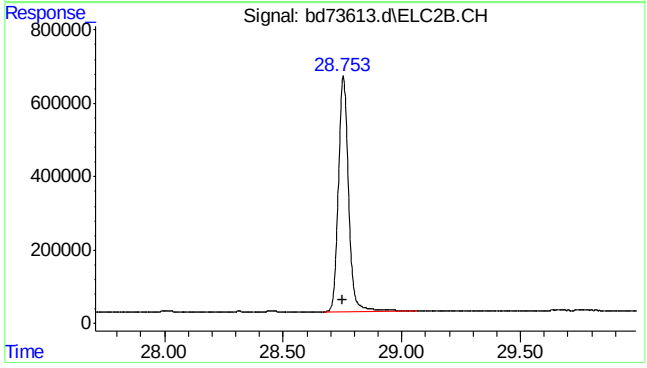
#21 o-xylene #2

R.T.: 24.029 min
Delta R.T.: 0.001 min
Response: 18695075
Conc: 43.00 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 20446704
Conc: 41.57 ppb



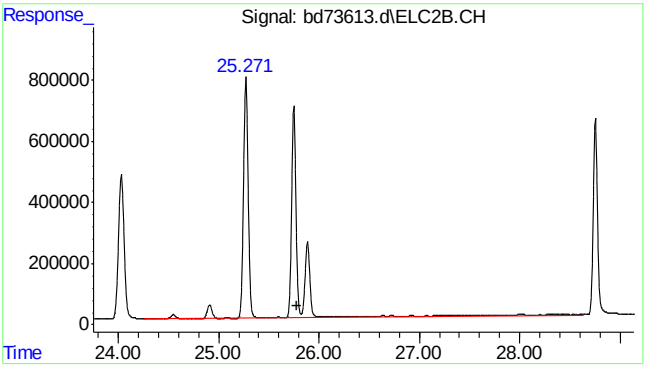
#24 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 18989234
Conc: 52.63 ppb m

7.4.2

7

SGS ACCUTEST MC45969



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 63841641
Conc: 129.85 ppb m

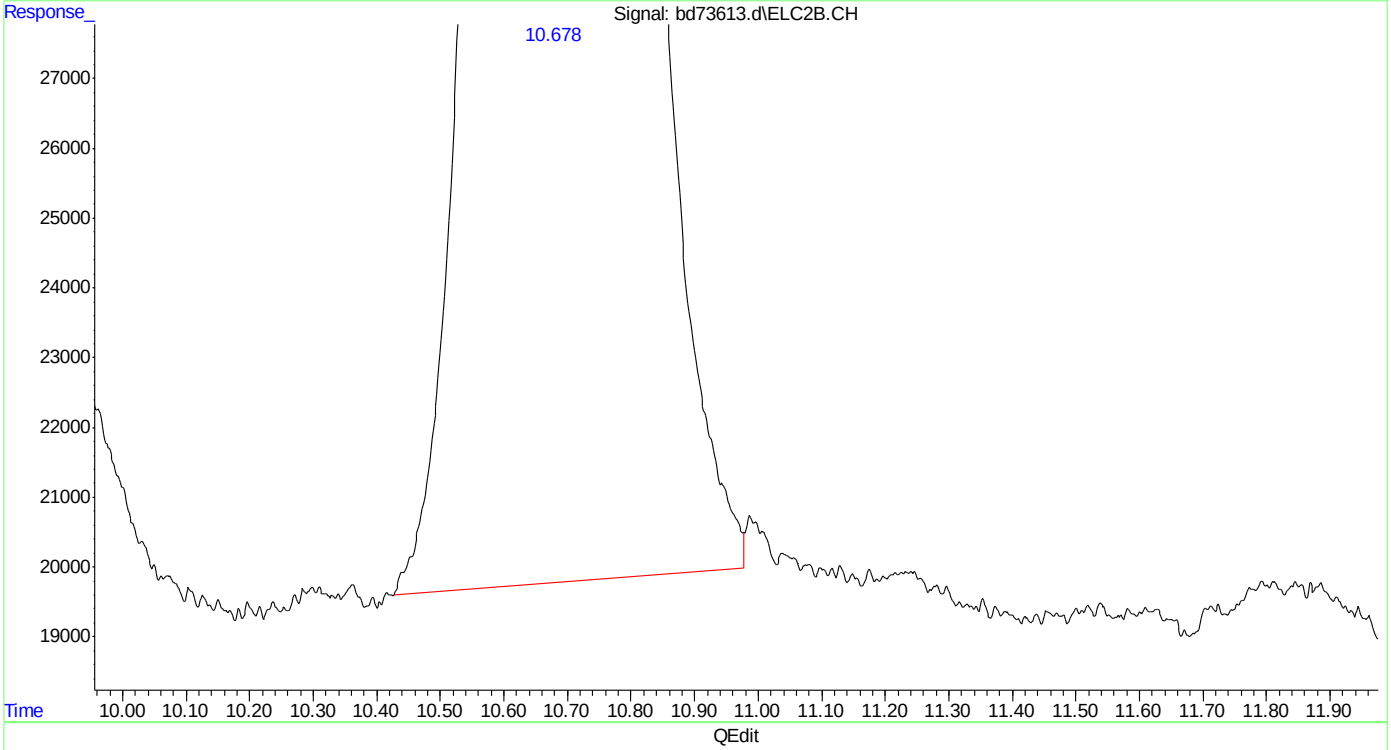
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73613.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:03:05
Operator : tonyf
Sample : mc45945-1msd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 12:05:08 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.679min 51.859 ppb
response 7991896

(+) = Expected Retention Time
bd160518vph.M Wed May 18 12:05:40 2016

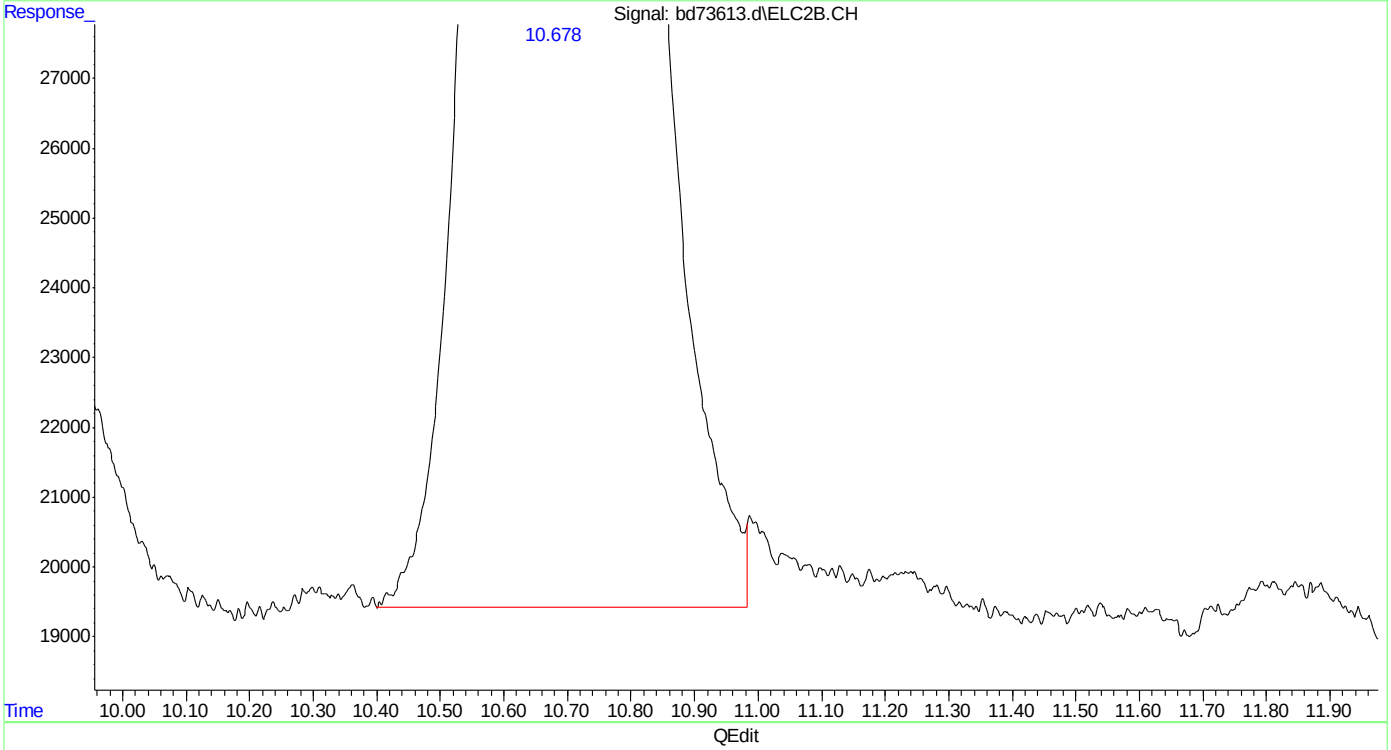
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73613.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:03:05
Operator : tonyf
Sample : mc45945-1msd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 12:05:08 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.678min 52.682 ppb m
response 8118718

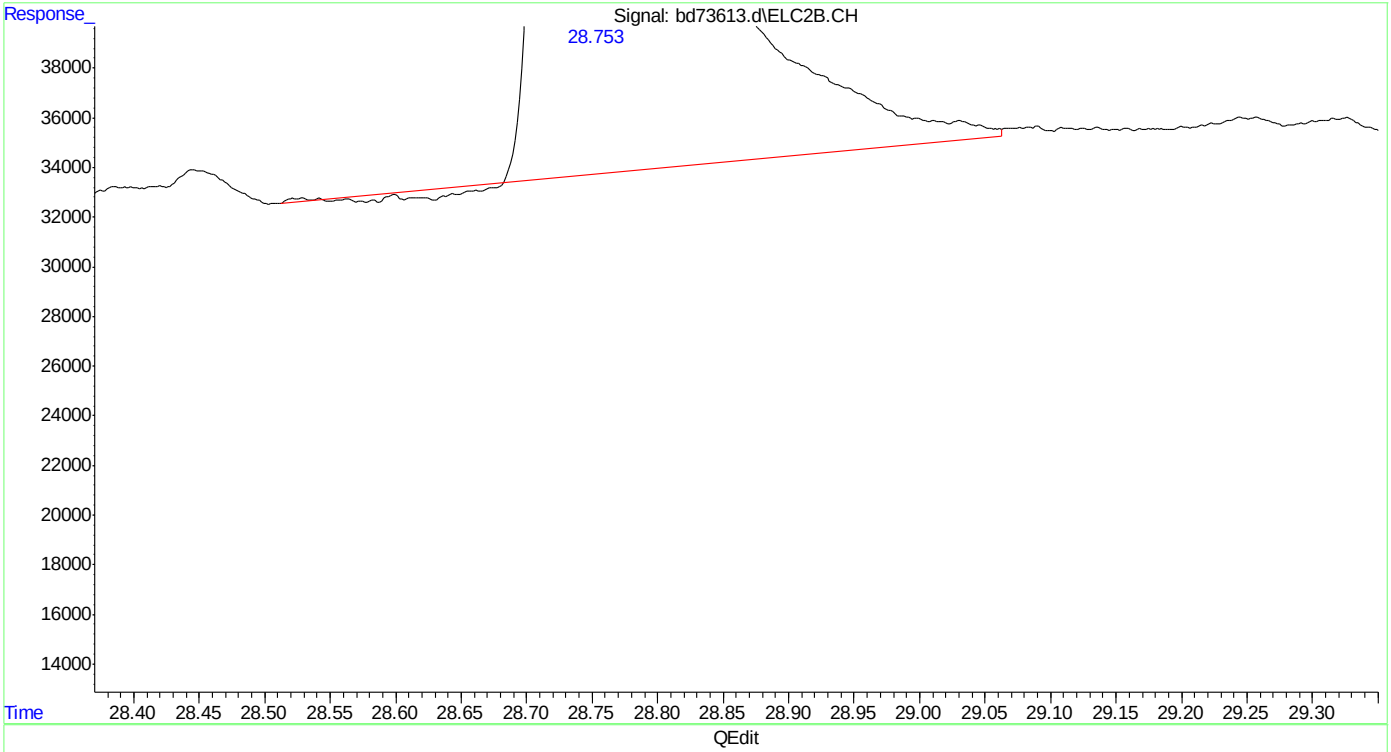
(+) = Expected Retention Time
bd160518vph.M Wed May 18 12:05:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73613.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:03:05
Operator : tonyf
Sample : mc45945-1msd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 12:05:08 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.754min 52.500 ppb
response 18940823

(+) = Expected Retention Time
bd160518vph.M Wed May 18 12:05:57 2016

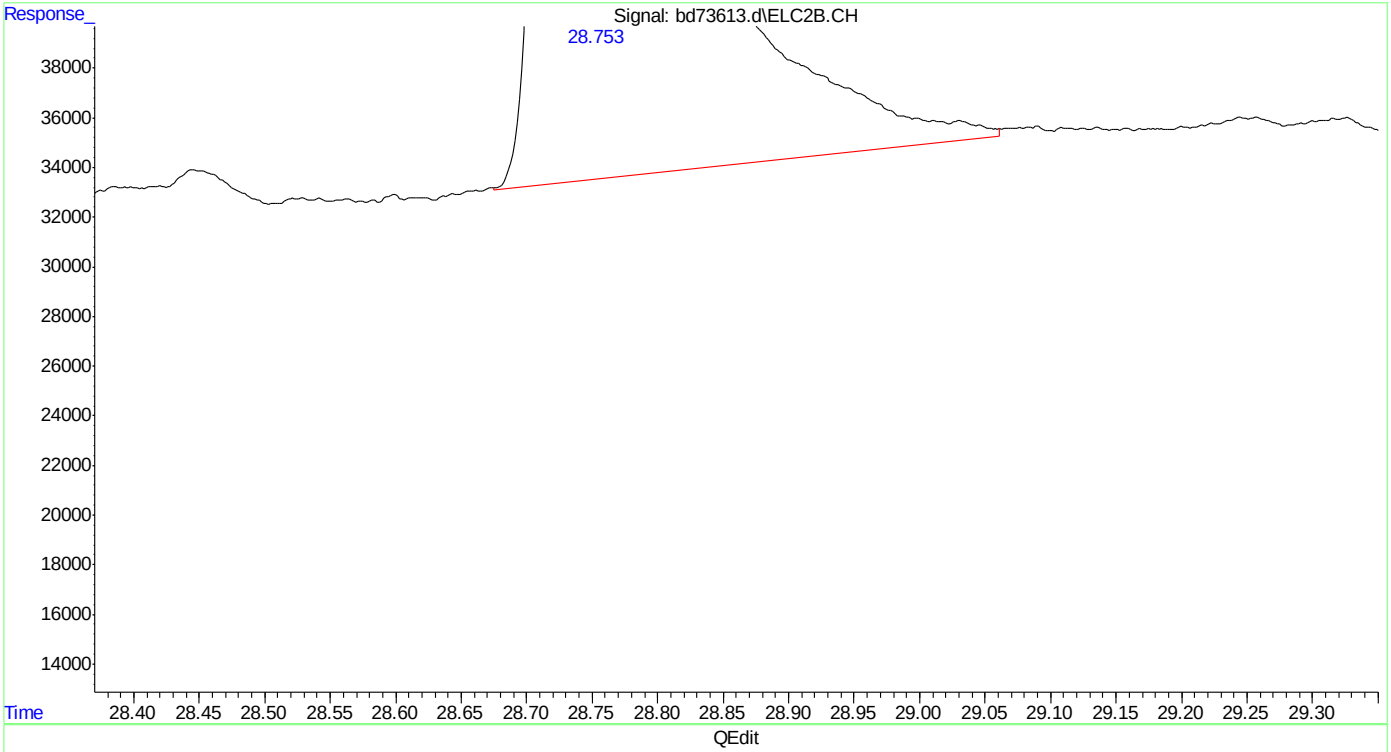
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73613.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:03:05
Operator : tonyf
Sample : mc45945-1msd,w,vmavph,00
Misc : gc26249,gbd3638,,,,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 18 12:05:08 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.753min 52.633 ppb m
response 18989234

(+) = Expected Retention Time
bd160518vph.M Wed May 18 12:06:01 2016

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3572-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.425	657317120	961.988	ppb	
Spiked Amount 50.000		Recovery	= 1923.98%		
9) s 2,3,4-trifluorotoluene	21.238	506533597	968.857	ppb	
Spiked Amount 50.000		Recovery	= 1937.71%		
25) s fluorobenzene #2	16.425	307860163	897.087	ppb	
Spiked Amount 50.000		Recovery	= 1794.17%		
27) s 2,3,4-trifluorotoluen...	21.238	193235935	979.359	ppb	
Spiked Amount 50.000		Recovery	= 1958.72%		
Target Compounds					
1) h rt5.5-7	7.470	571775990	991.759	ppb	m
2) h rt7/10	9.920	664691568	987.821	ppb	m
3) mtbe	10.678	267375479	891.162	ppb	
4) h rt10/13	15.200	326932608	498.608	ppb	m
5) benzene	15.932	881455634	1134.894	ppb	
8) toluene	20.221	861485080	1108.961	ppb	
11) h rt20/25	22.840	696455027	838.680	ppb	m
13) ethylbenzene	23.174	853280690	1074.198	ppb	
14) m,p-xylene	23.311	1439377364	1738.716	ppb	
15) o-xylene	24.030	813797703	973.949	ppb	
16) h decane	24.930	406144732	436.324	ppb	
17) t 1,3,5-trimethylbenzene	25.272	856076033	922.191	ppb	
18) 1,2,4-trimethylbenzene	25.749	793214434	897.165	ppb	
19) h butylcyclohexane	25.908	623852508	658.454	ppb	
20) naphthalene	28.750	426083724	1009.117	ppb	m
23) mtbe #2	10.681f	136782818	875.276	ppb	
24) benzene #2	15.933	486139863	1005.904	ppb	
26) toluene #2	20.222	462559507	1024.522	ppb	
28) ethylbenzene #2	23.176	445869280	1084.433	ppb	
29) m,p-xylene #2	23.314	1026259910	2066.543	ppb	
30) o-xylene #2	24.031	455064843	1052.780	ppb	
31) t 1,3,5-trimethylbenzen...	25.273	672061053	1001.725	ppb	
32) 1,2,4-trimethylbenzen...	25.750	503182098	1025.934	ppb	
33) naphthalene #2	28.751	338646305	1054.657	ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	503156214	1026.406	ppb	m

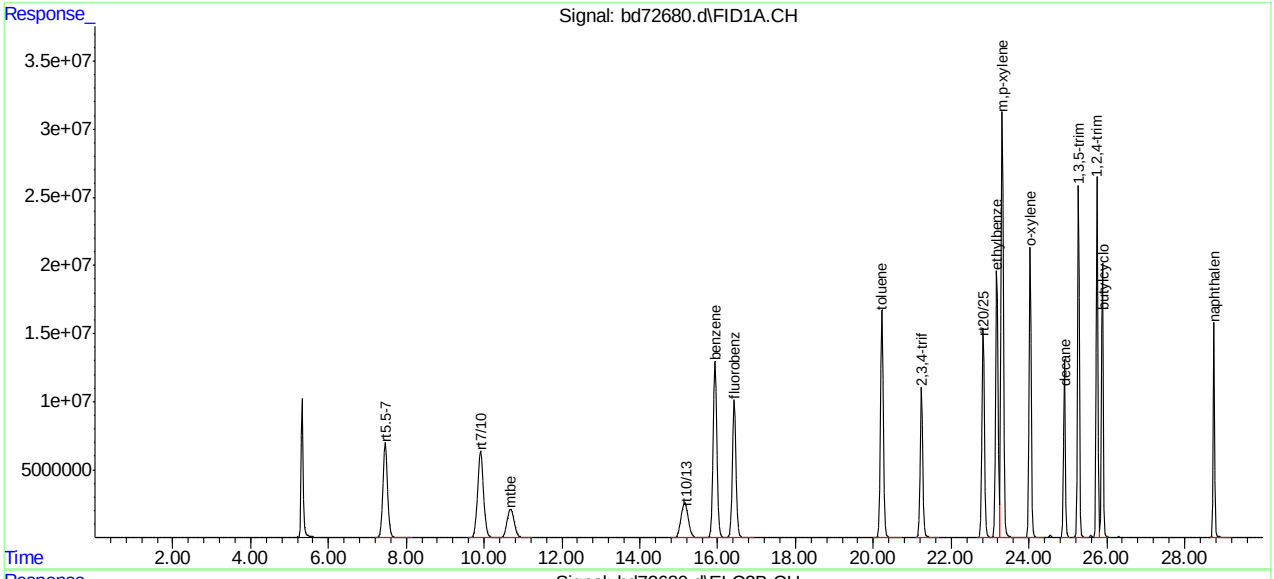
(f)=RT Delta > 1/2 Window (m)=manual int.

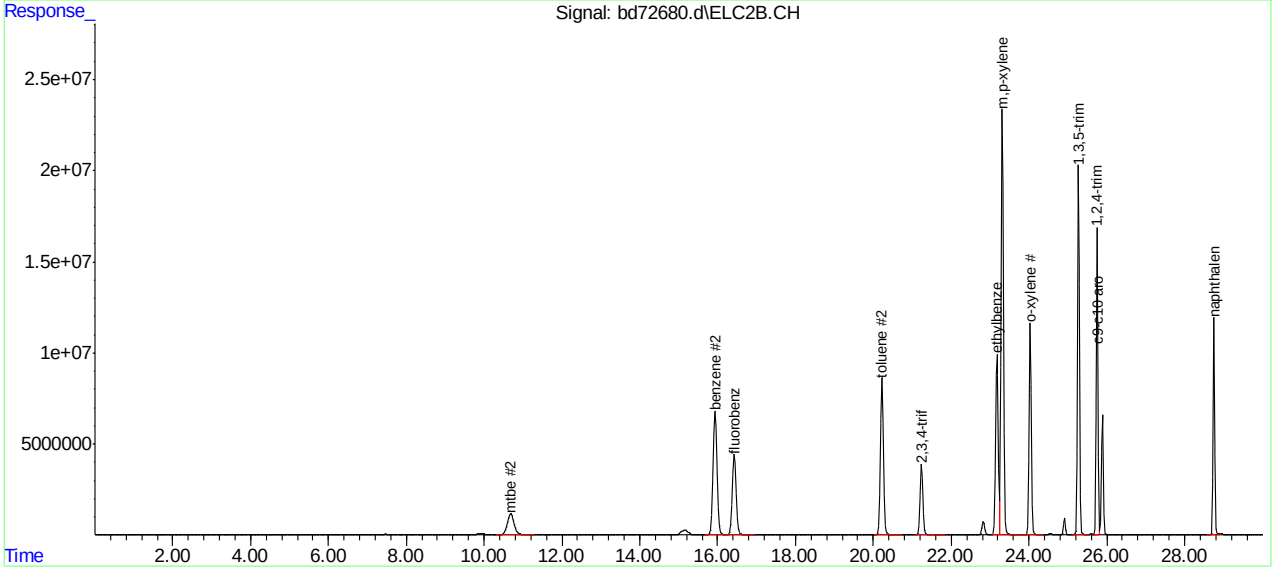
Quantitation Report (QT Reviewed)

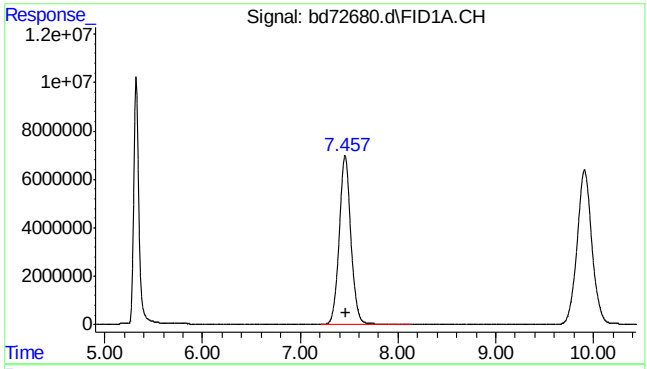
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3572-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

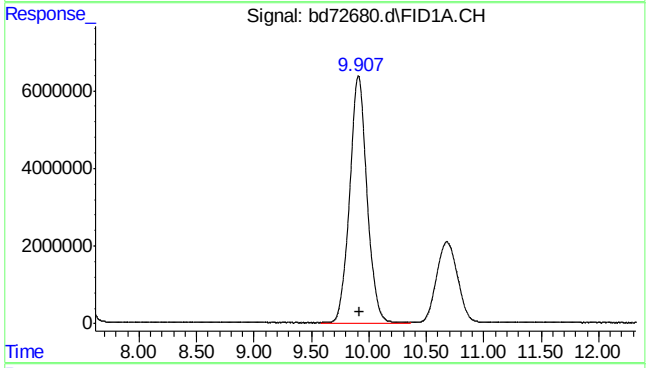






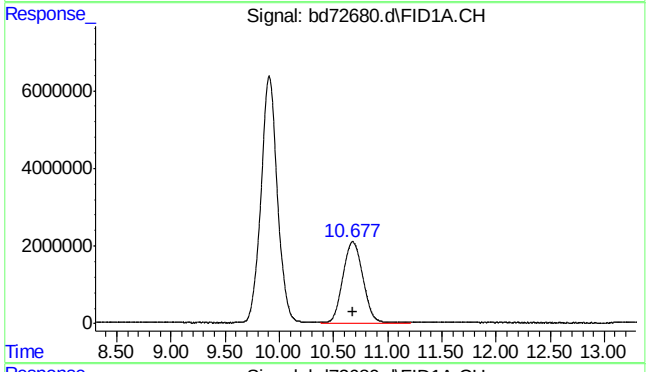
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 571775990
Conc: 991.76 ppb m



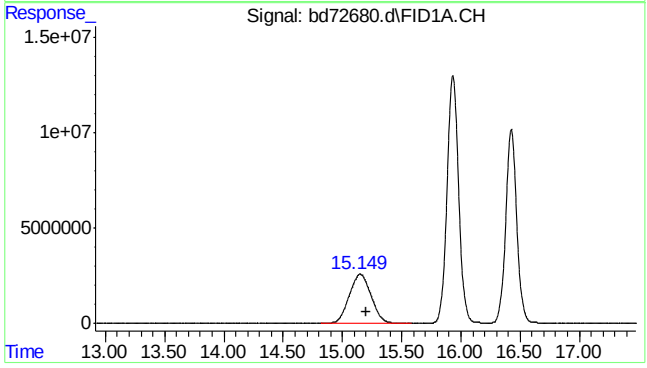
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 664691568
Conc: 987.82 ppb m



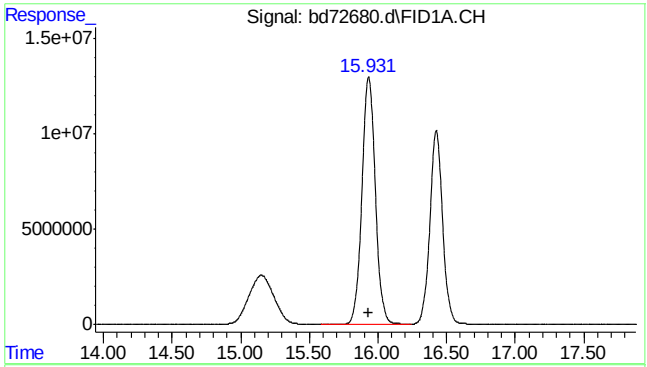
#3 mtbe

R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 267375479
Conc: 891.16 ppb



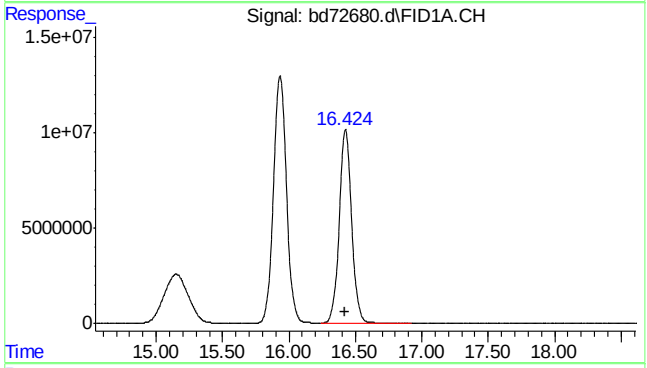
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 326932608
Conc: 498.61 ppb m



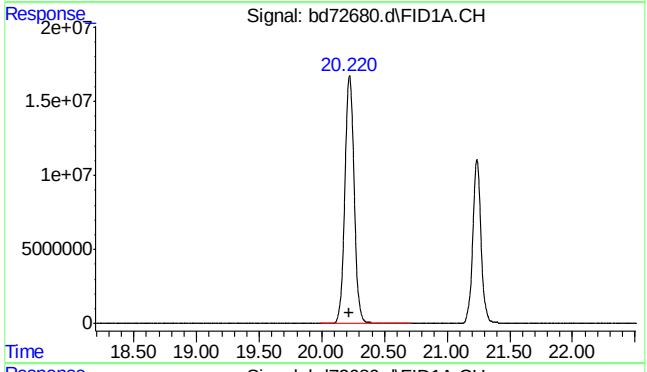
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 881455634
Conc: 1134.89 ppb



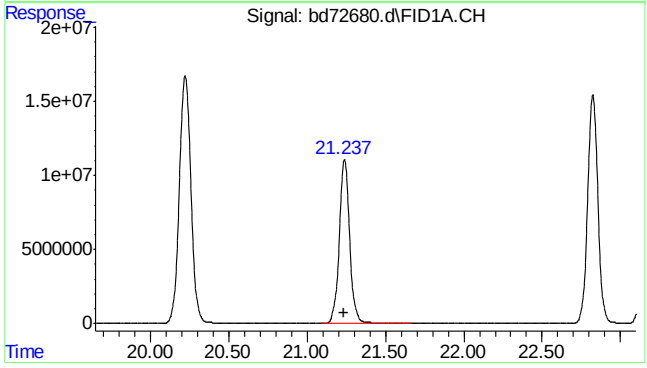
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 657317120
Conc: 961.99 ppb



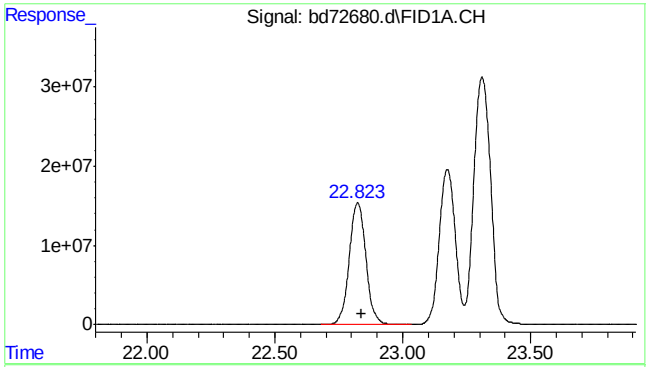
#8 toluene

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 861485080
Conc: 1108.96 ppb



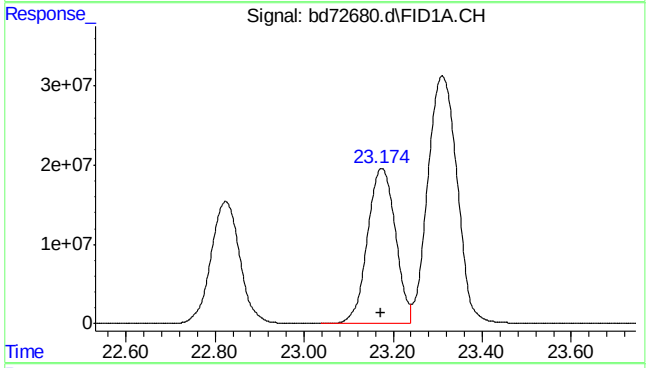
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 506533597
Conc: 968.86 ppb



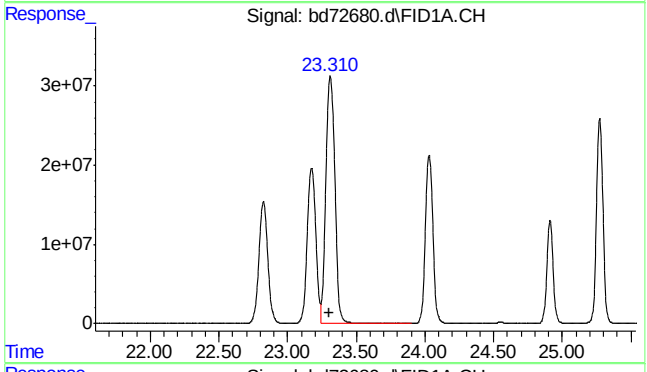
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 696455027
Conc: 838.68 ppb m



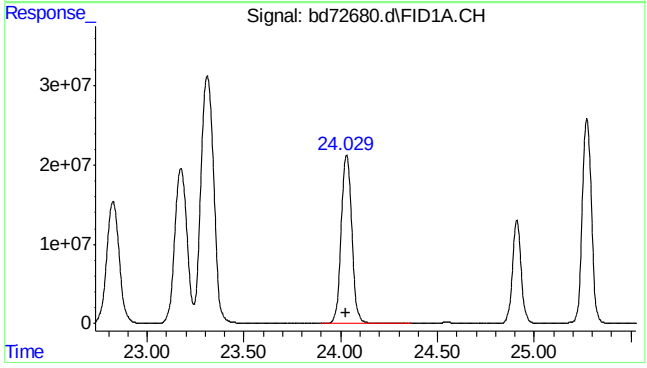
#13 ethylbenzene

R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 853280690
Conc: 1074.20 ppb



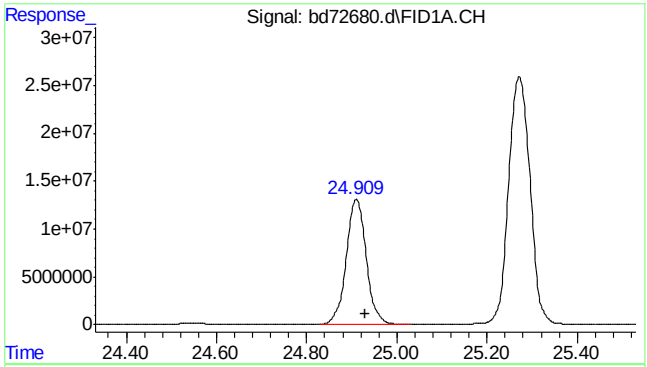
#14 m,p-xylene

R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1439377364
Conc: 1738.72 ppb



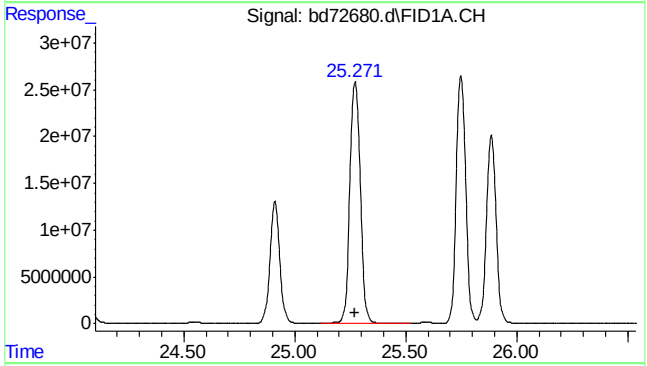
#15 o-xylene

R.T.: 24.030 min
Delta R.T.: 0.001 min
Response: 813797703
Conc: 973.95 ppb



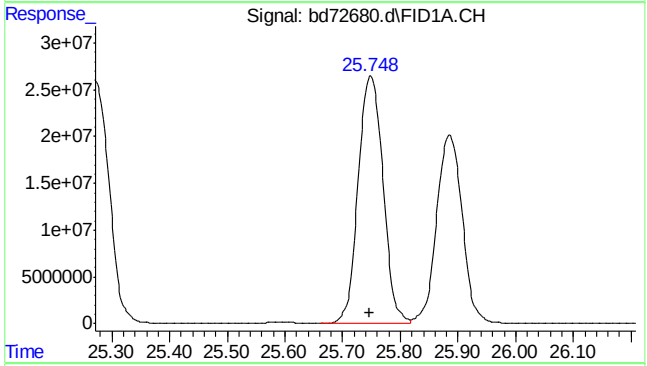
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 406144732
Conc: 436.32 ppb



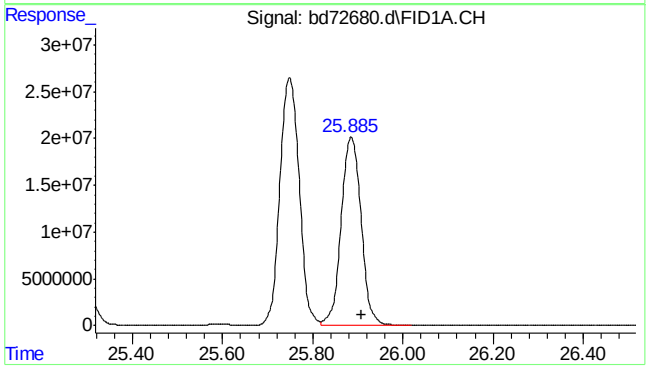
#17 1,3,5-trimethylbenzene

R.T.: 25.272 min
Delta R.T.: 0.003 min
Response: 856076033
Conc: 922.19 ppb



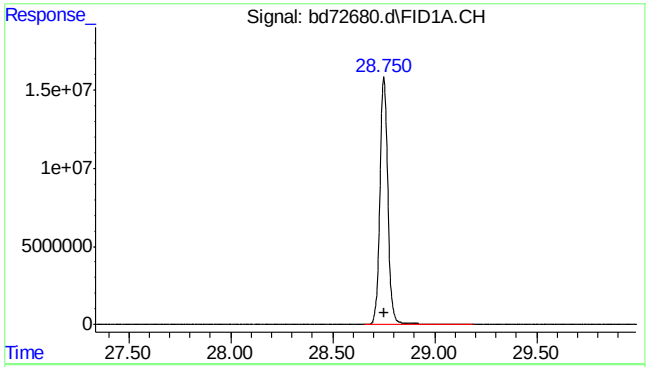
#18 1,2,4-trimethylbenzene

R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 793214434
Conc: 897.17 ppb



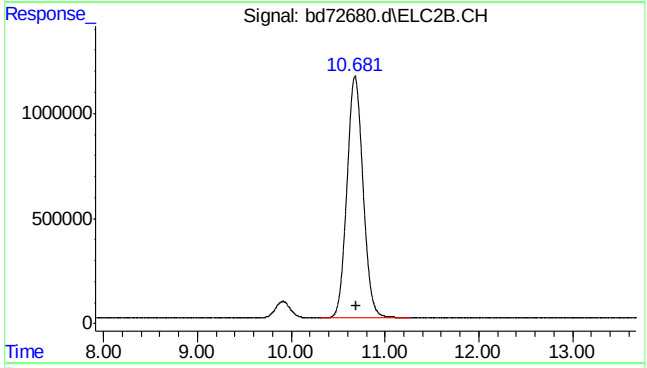
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 623852508
Conc: 658.45 ppb



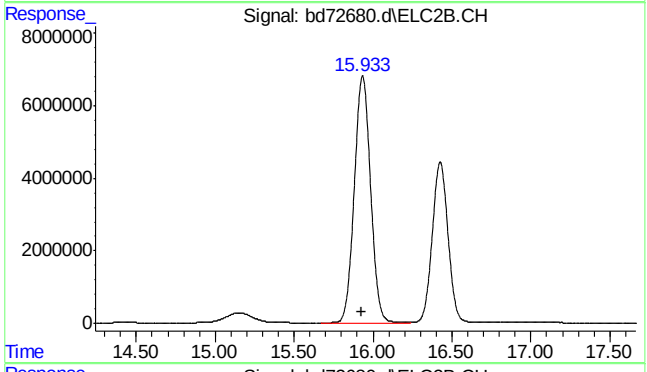
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 426083724
Conc: 1009.12 ppb m



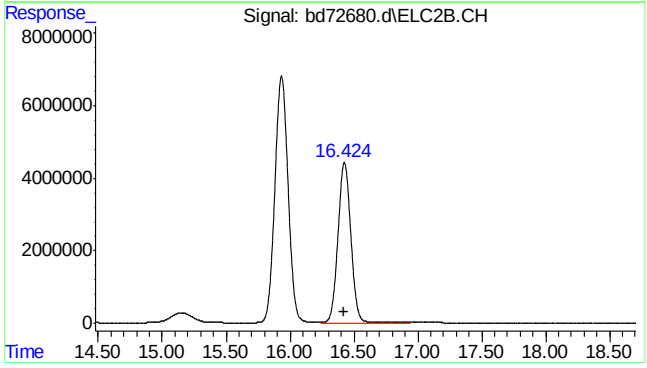
#23 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 136782818
Conc: 875.28 ppb



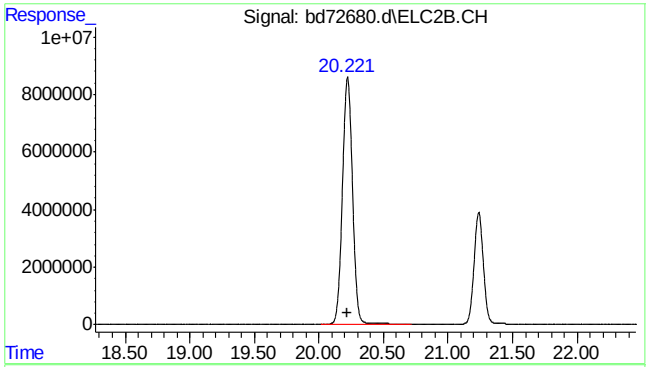
#24 benzene #2

R.T.: 15.933 min
Delta R.T.: 0.001 min
Response: 486139863
Conc: 1005.90 ppb



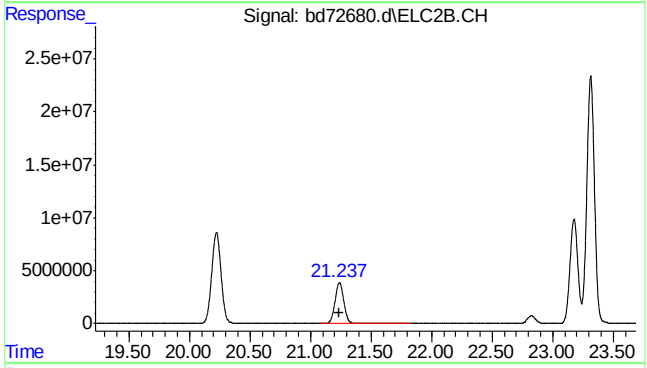
#25 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 307860163
Conc: 897.09 ppb



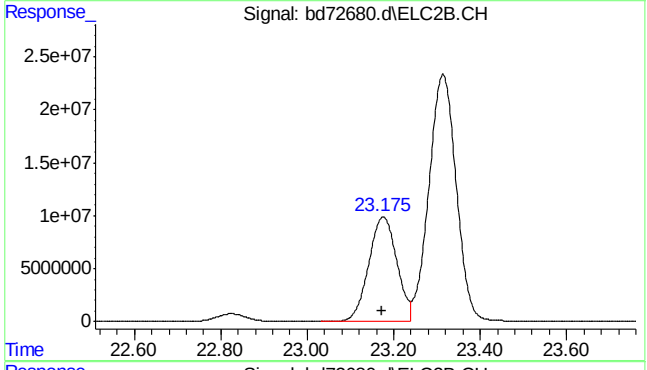
#26 toluene #2

R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 462559507
Conc: 1024.52 ppb



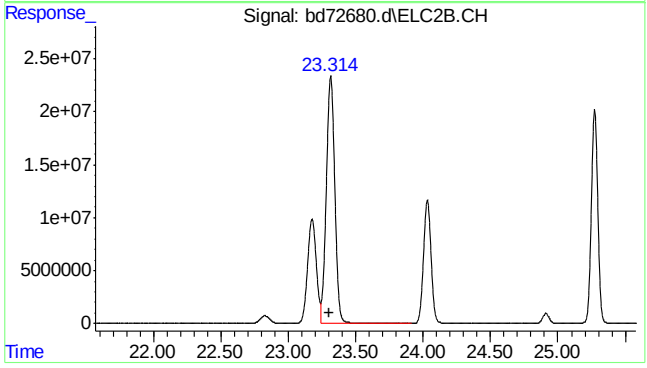
#27 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.001 min
Response: 193235935
Conc: 979.36 ppb



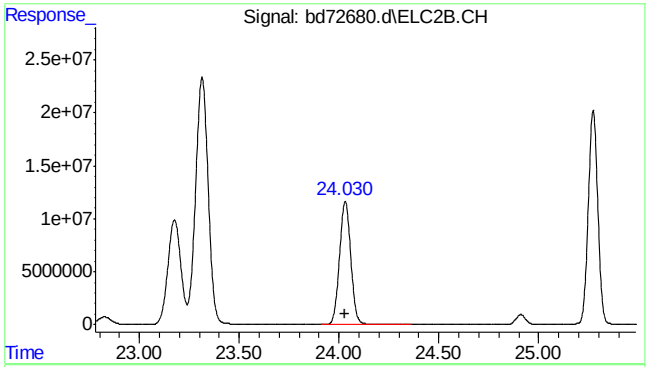
#28 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: 0.004 min
Response: 445869280
Conc: 1084.43 ppb



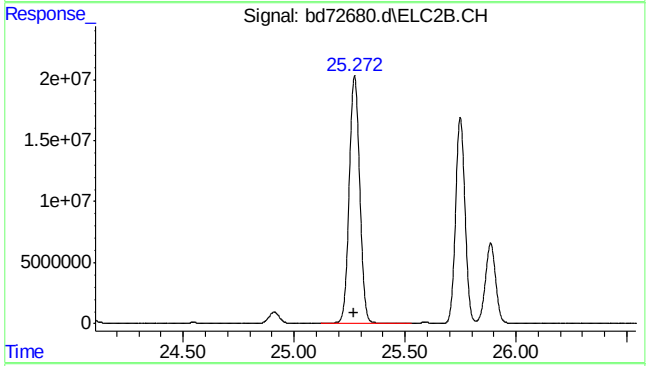
#29 m,p-xylene #2

R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 1026259910
Conc: 2066.54 ppb



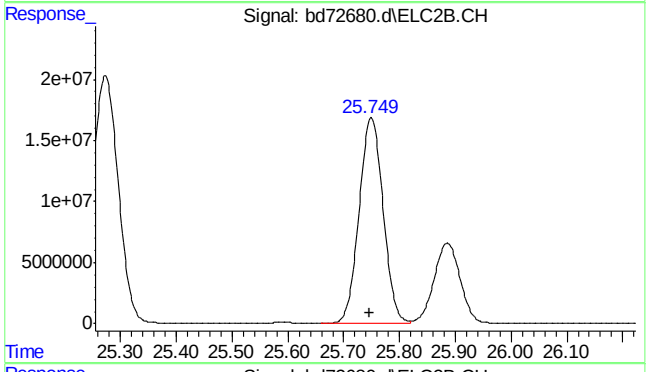
#30 o-xylene #2

R.T.: 24.031 min
Delta R.T.: 0.003 min
Response: 455064843
Conc: 1052.78 ppb



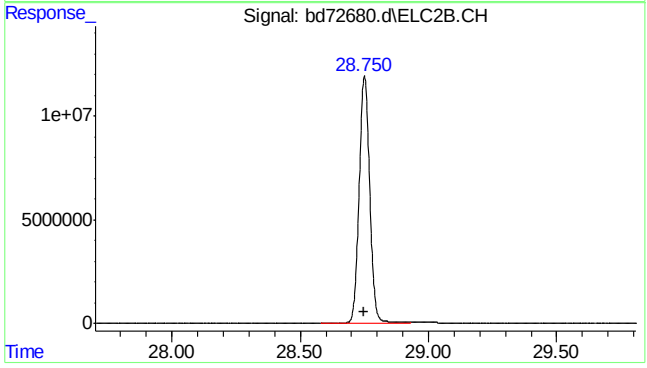
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 672061053
Conc: 1001.72 ppb



#32 1,2,4-trimethylbenzene #2

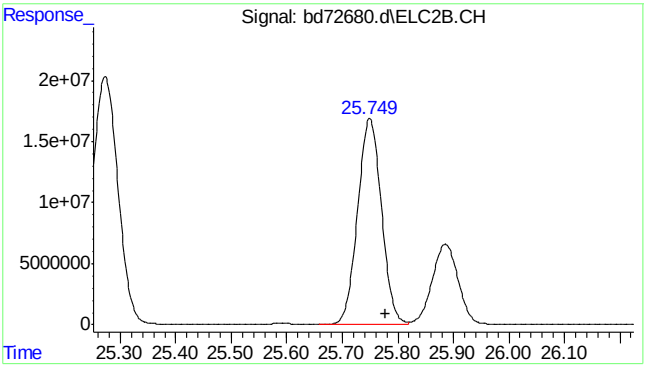
R.T.: 25.750 min
Delta R.T.: 0.004 min
Response: 503182098
Conc: 1025.93 ppb



#33 naphthalene #2

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 338646305
Conc: 1054.66 ppb

SGS ACCUTEST MC45969




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

      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response: 503156214
      Conc: 1026.41 ppb m
```

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3572-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.424	280256461	399.892	ppb	
Spiked Amount 50.000		Recovery = 799.78%			
9) s 2,3,4-trifluorotoluene	21.236	223973992	419.811	ppb	
Spiked Amount 50.000		Recovery = 839.62%			
25) s fluorobenzene #2	16.423	154535173	444.003	ppb	
Spiked Amount 50.000		Recovery = 888.01%			
27) s 2,3,4-trifluorotoluen...	21.236	93431261	469.974	ppb	
Spiked Amount 50.000		Recovery = 939.95%			
Target Compounds					
1) h rt5.5-7	7.470	250696304	426.891	ppb	m
2) h rt7/10	9.920	302369528	442.953	ppb	m
3) mtbe	10.677	149463905	497.901	ppb	
4) h rt10/13	15.200	202634743	293.051	ppb	m
5) benzene	15.932	369202764	472.034	ppb	
8) toluene	20.219	393743577	507.847	ppb	
11) h rt20/25	22.840	346681859	407.862	ppb	m
13) ethylbenzene	23.171	415193330	526.099	ppb	
14) m,p-xylene	23.307	837537821	1013.412	ppb	
15) o-xylene	24.028	409323205	488.463	ppb	
16) h decane	24.930	328410851	338.576	ppb	
17) t 1,3,5-trimethylbenzene	25.270	460707488	495.762	ppb	
18) 1,2,4-trimethylbenzene	25.747	446599621	505.867	ppb	
19) h butylcyclohexane	25.908	364778065	372.763	ppb	
20) naphthalene	28.748	235968786	568.416	ppb	m
23) mtbe #2	10.676f	72995113	462.747	ppb	
24) benzene #2	15.931	243796320	505.098	ppb	
26) toluene #2	20.219	229409498	509.300	ppb	
28) ethylbenzene #2	23.171	214894088	526.067	ppb	
29) m,p-xylene #2	23.308	505002305	1019.367	ppb	
30) o-xylene #2	24.028	220290152	511.042	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	339709347	507.265	ppb	
32) 1,2,4-trimethylbenzen...	25.747	256663102	526.816	ppb	
33) naphthalene #2	28.748	191420125	612.985	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	256536580	526.828	ppb	m

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

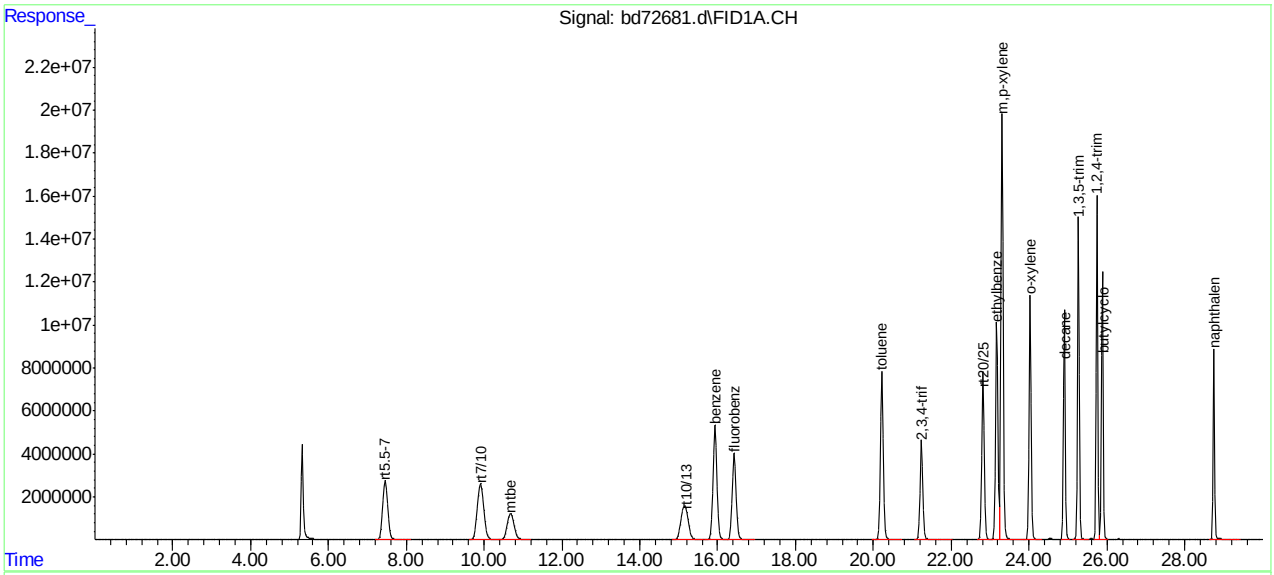
SGS ACCUTEST MC45969

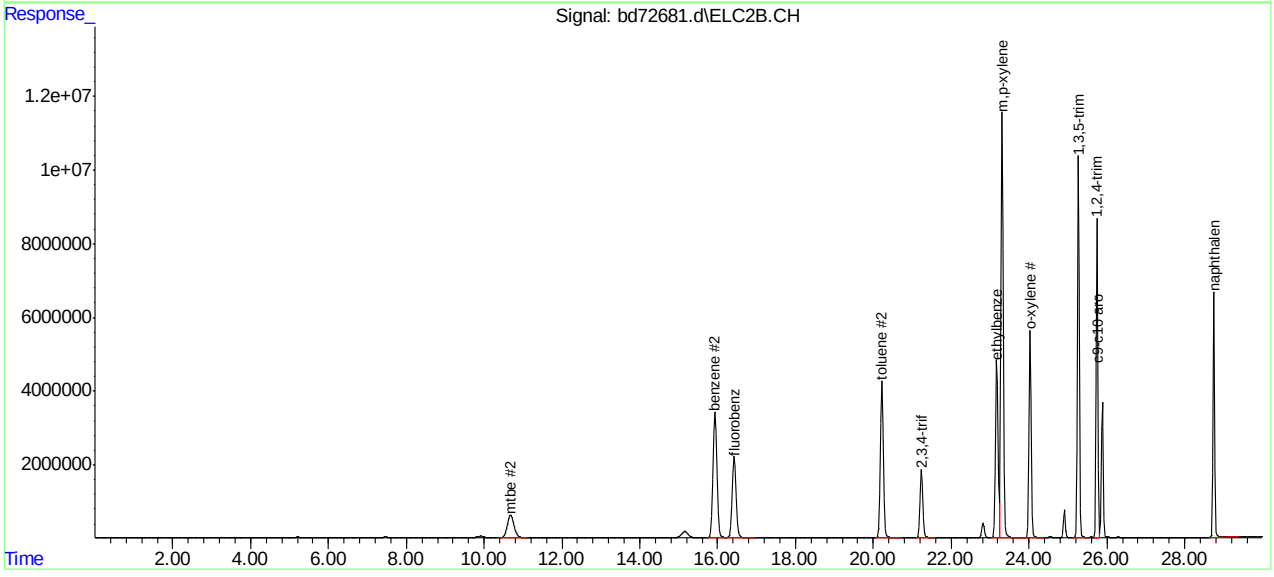
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3572-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

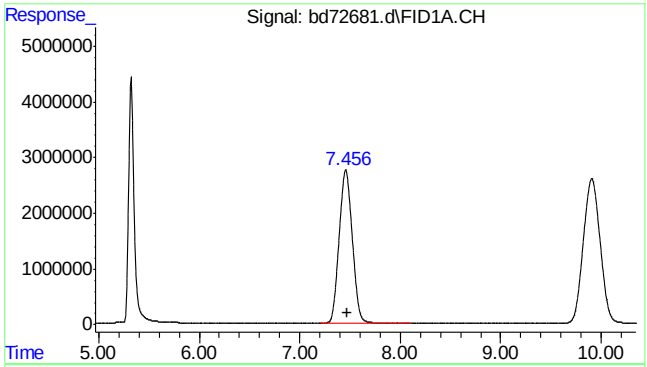
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



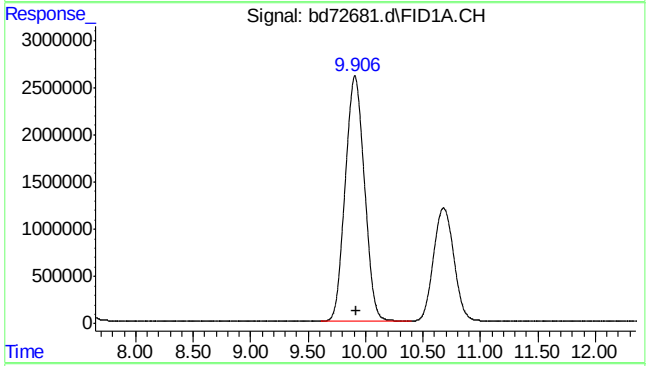


SGS ACCUTEST MC45969



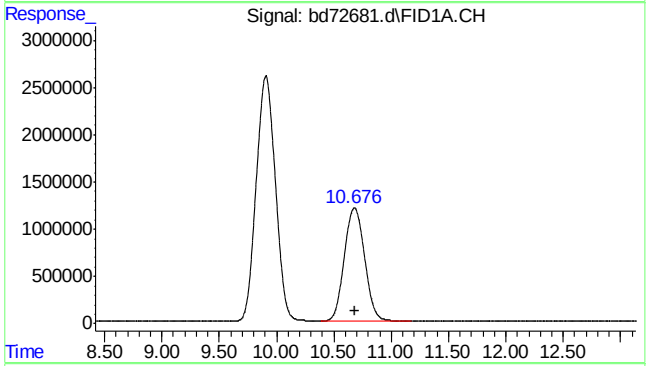
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 250696304
Conc: 426.89 ppb m



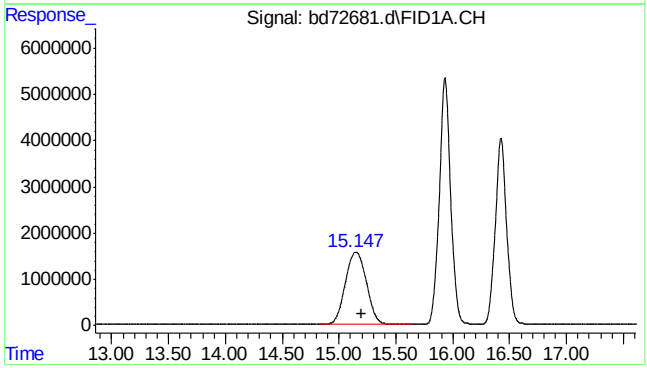
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 302369528
Conc: 442.95 ppb m



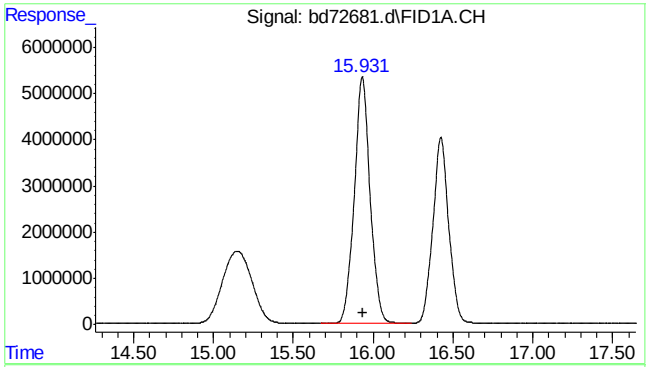
#3 mtbe

R.T.: 10.677 min
Delta R.T.: -0.006 min
Response: 149463905
Conc: 497.90 ppb



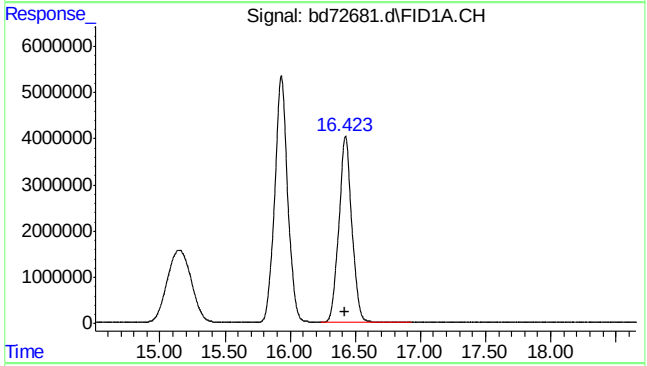
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 202634743
Conc: 293.05 ppb m



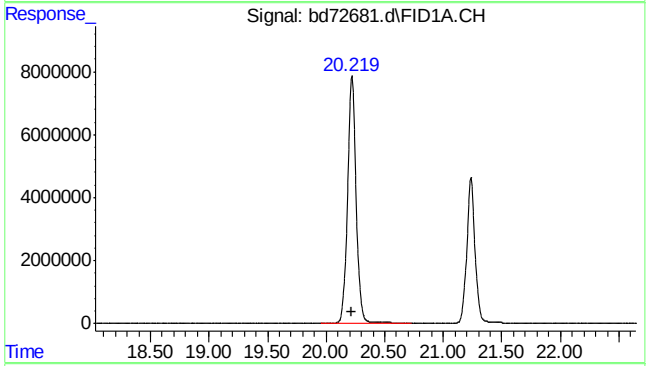
#5 benzene

R.T.: 15.932 min
Delta R.T.: -0.001 min
Response: 369202764
Conc: 472.03 ppb



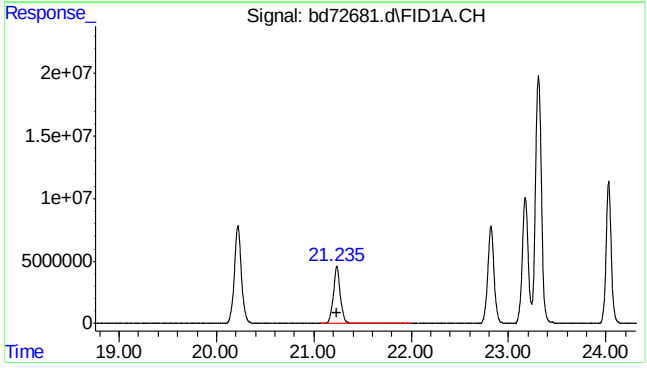
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 280256461
Conc: 399.89 ppb



#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 393743577
Conc: 507.85 ppb



#9 2,3,4-trifluorotoluene

R.T.: 21.236 min
Delta R.T.: 0.000 min
Response: 223973992
Conc: 419.81 ppb

7.5.2

7

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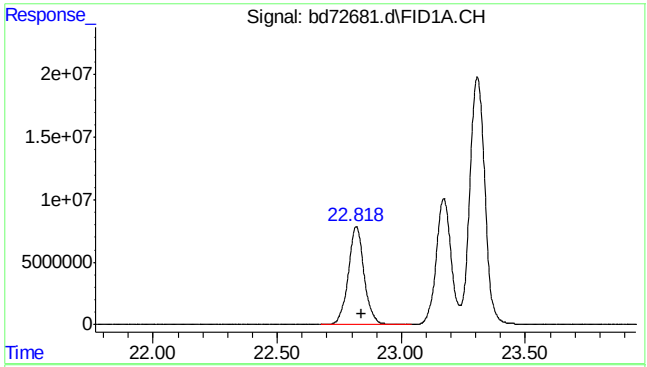
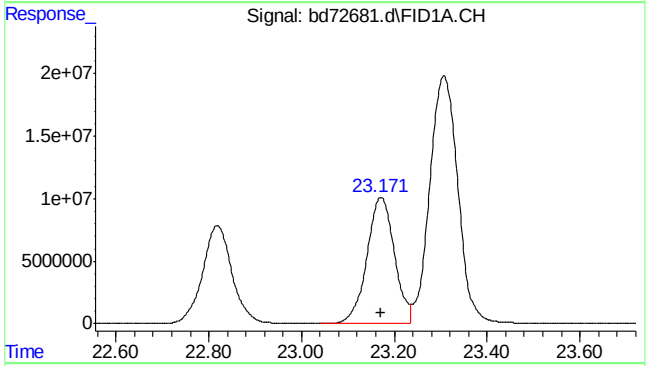


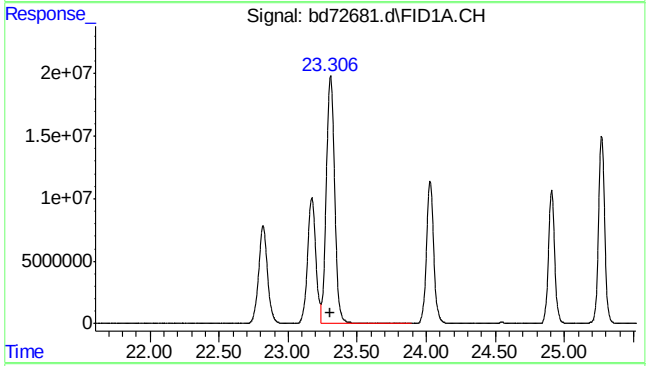
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 346681859
Conc: 407.86 ppb m



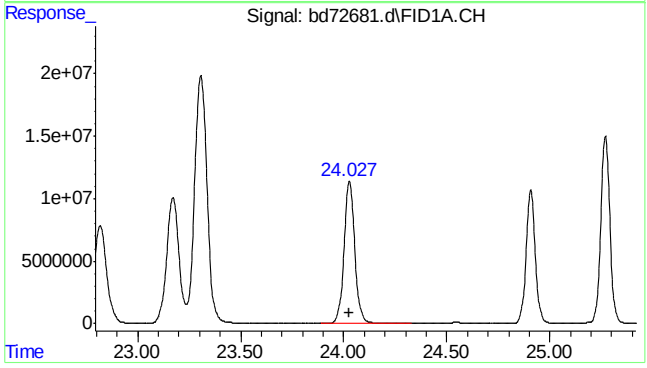
#13 ethylbenzene

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 415193330
Conc: 526.10 ppb



#14 m,p-xylene

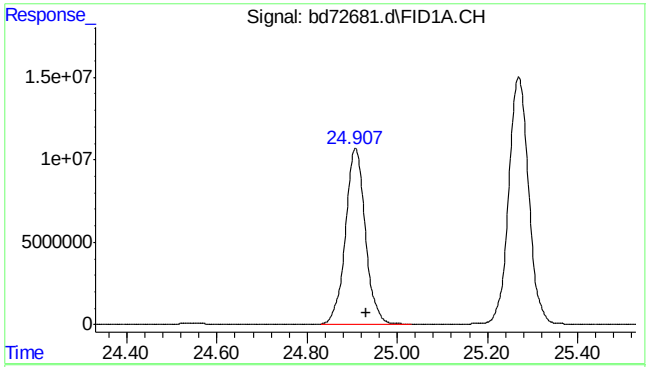
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 837537821
Conc: 1013.41 ppb



#15 o-xylene

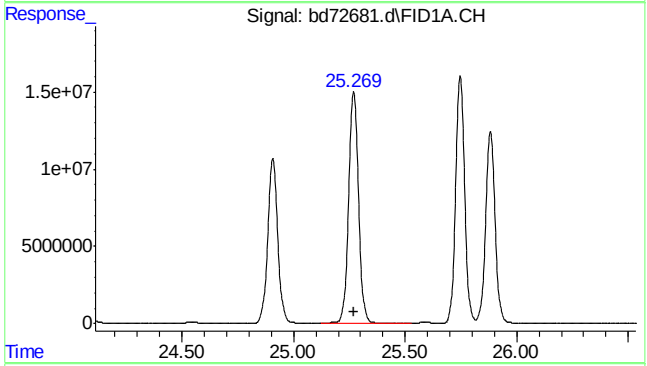
R.T.: 24.028 min
Delta R.T.: -0.001 min
Response: 409323205
Conc: 488.46 ppb

SGS ACCUTEST MC45969



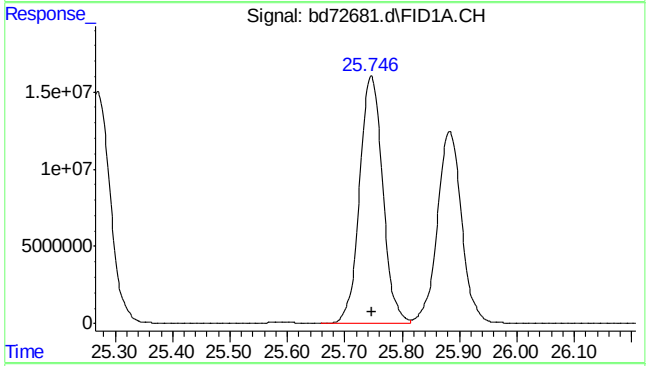
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 328410851
Conc: 338.58 ppb



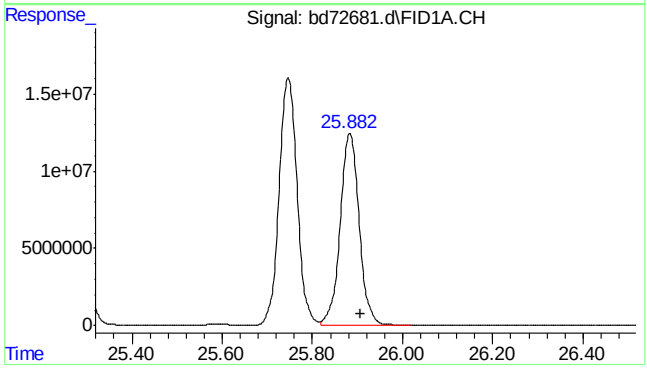
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 460707488
Conc: 495.76 ppb



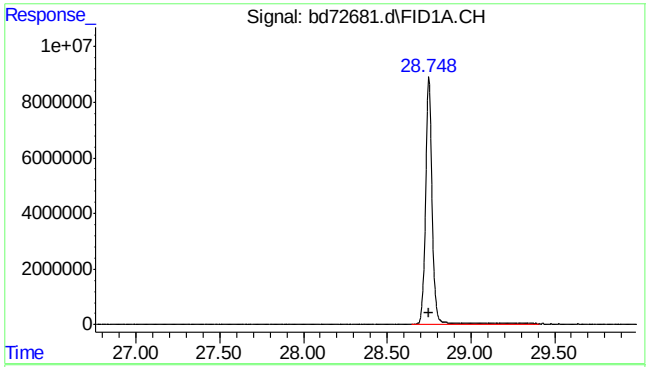
#18 1,2,4-trimethylbenzene

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 446599621
Conc: 505.87 ppb



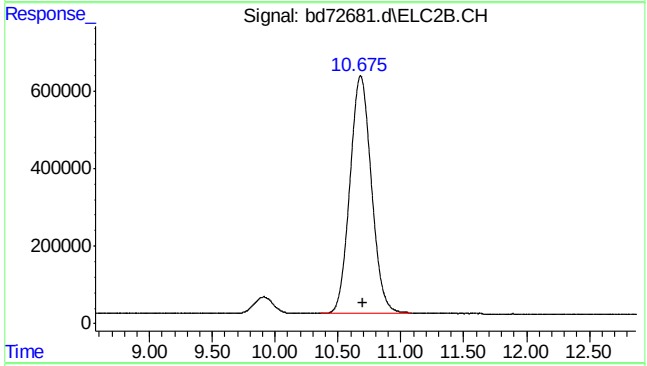
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 364778065
Conc: 372.76 ppb



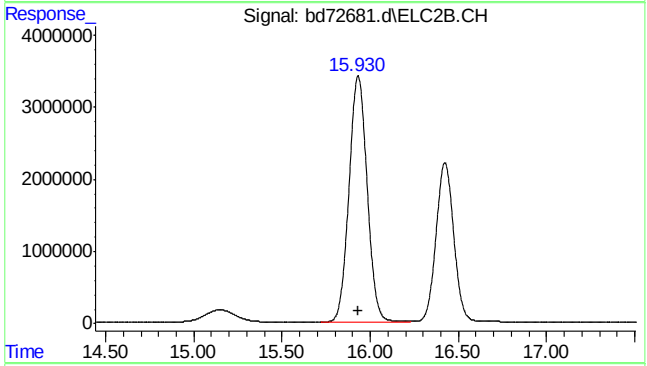
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 235968786
Conc: 568.42 ppb m



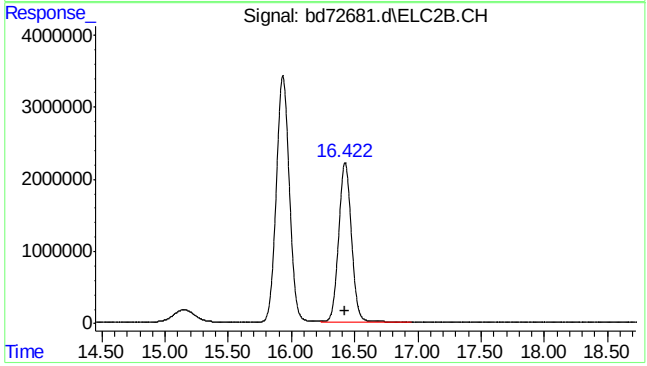
#23 mtbe #2

R.T.: 10.676 min
Delta R.T.: -0.020 min
Response: 72995113
Conc: 462.75 ppb



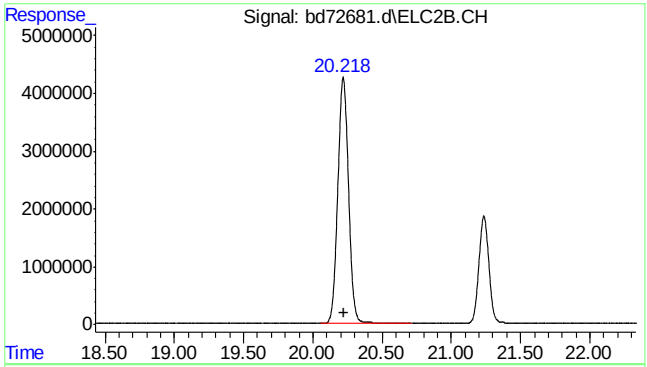
#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 243796320
Conc: 505.10 ppb



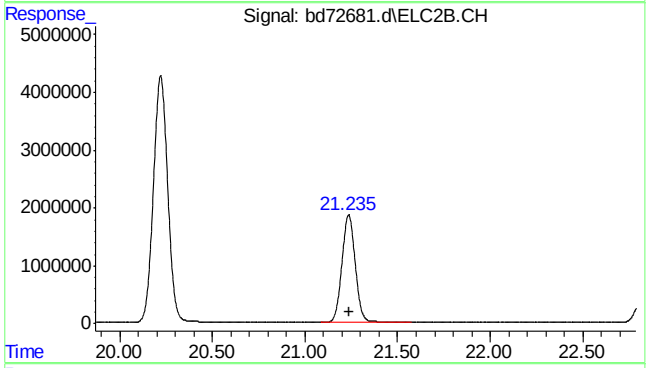
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 154535173
Conc: 444.00 ppb



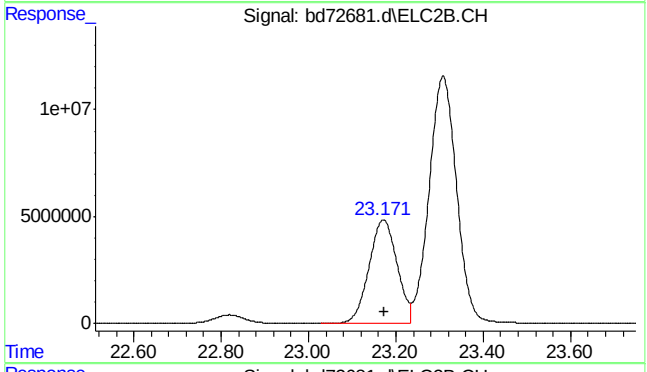
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 229409498
Conc: 509.30 ppb



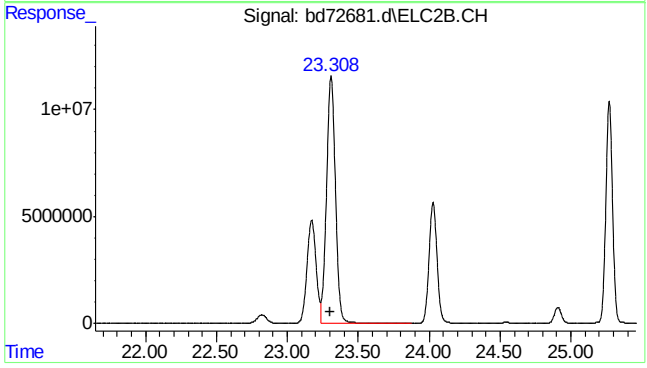
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 93431261
Conc: 469.97 ppb



#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 214894088
Conc: 526.07 ppb



#29 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.001 min
Response: 505002305
Conc: 1019.37 ppb

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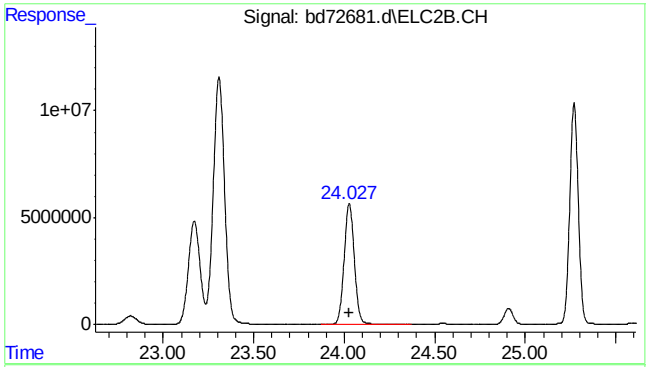
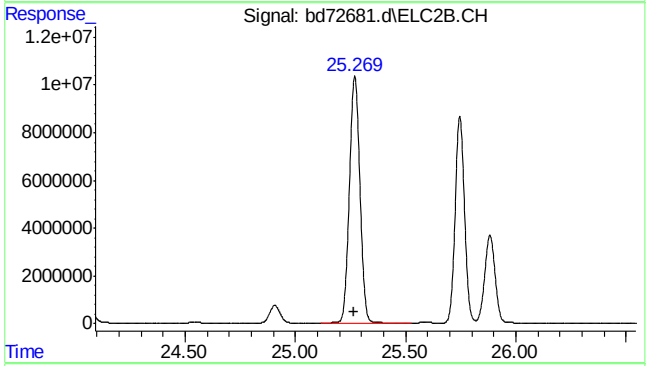


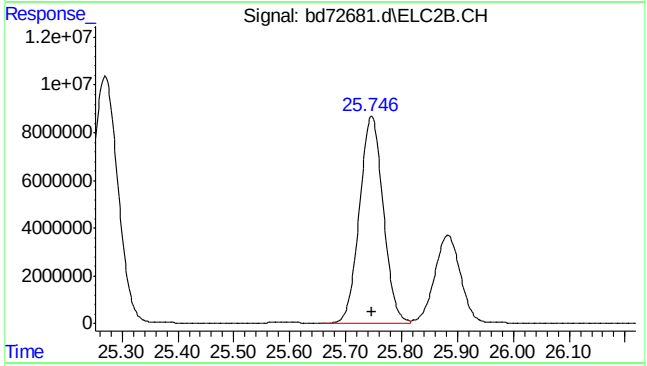
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 220290152
Conc: 511.04 ppb



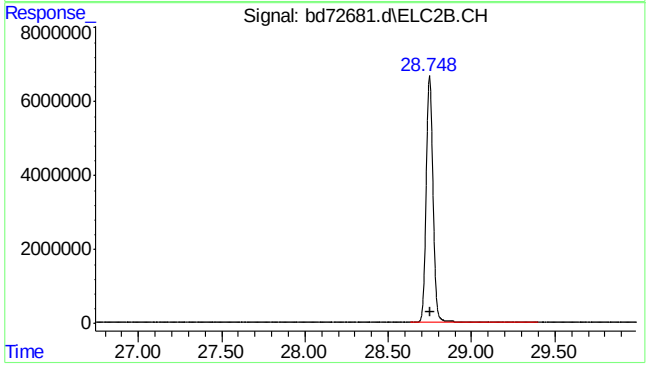
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 339709347
Conc: 507.27 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 256663102
Conc: 526.82 ppb



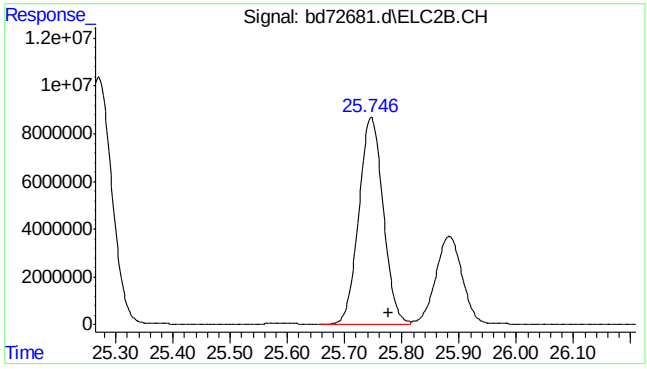
#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 191420125
Conc: 612.98 ppb m

7.5.2

7

SGS ACCUTEST MC45969



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 256536580
Conc: 526.83 ppb m

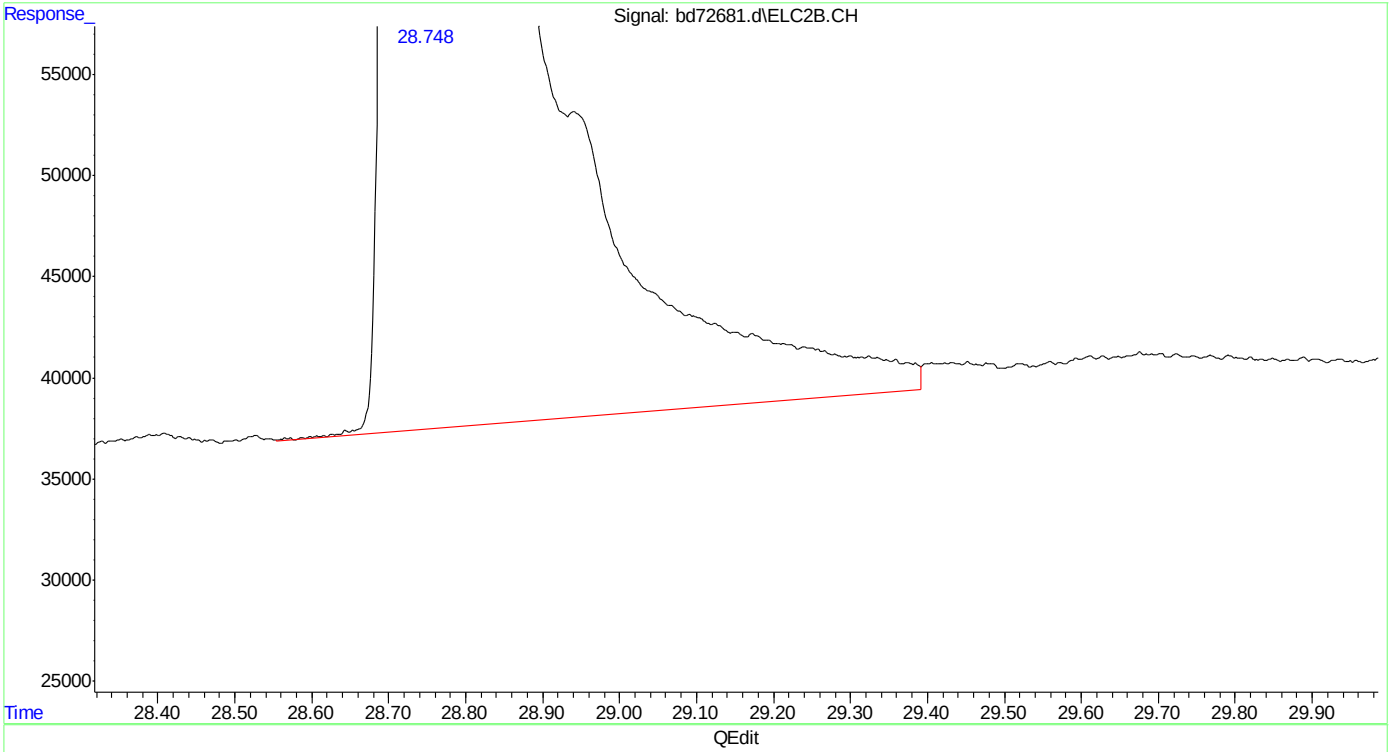
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3752-500
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:19:31 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.748min 613.914 ppb
response 191710301

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:20:27 2016

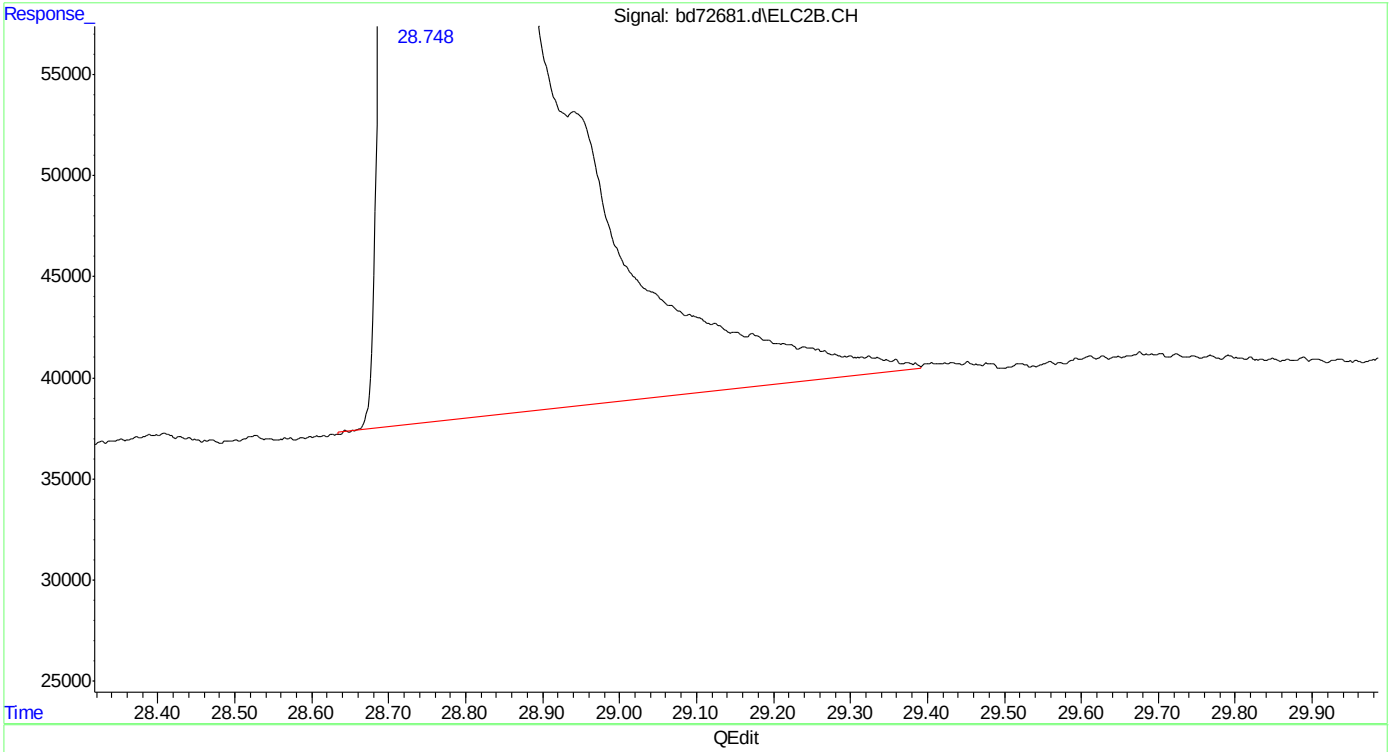
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3752-500
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:19:31 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.748min 612.985 ppb m
response 191420125

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:20:32 2016

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3572-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.424	152497733	212.995	ppb	
Spiked Amount 50.000		Recovery = 425.99%			
9) s 2,3,4-trifluorotoluene	21.236	112527515	205.563	ppb	
Spiked Amount 50.000		Recovery = 411.13%			
25) s fluorobenzene #2	16.423	80345593	227.934	ppb	
Spiked Amount 50.000		Recovery = 455.87%			
27) s 2,3,4-trifluorotoluen...	21.236	47736212	238.550	ppb	
Spiked Amount 50.000		Recovery = 477.10%			
Target Compounds					
1) h rt5.5-7	7.470	149066038	254.483	ppb	m
2) h rt7/10	9.920	173228736	254.409	ppb	m
3) mtbe	10.678	84104242	285.923	ppb	
4) h rt10/13	15.200	140035220	196.306	ppb	m
5) benzene	15.931	191470179	243.953	ppb	
8) toluene	20.220	185707723	237.863	ppb	
11) h rt20/25	22.840	158091359	178.378	ppb	m
13) ethylbenzene	23.172	190000309	239.278	ppb	
14) m,p-xylene	23.307	432876904	527.961	ppb	
15) o-xylene	24.029	200540345	237.621	ppb	
16) h decane	24.930	160400652	156.533	ppb	
17) t 1,3,5-trimethylbenzene	25.270	228714832	245.482	ppb	
18) 1,2,4-trimethylbenzene	25.747	227512016	259.035	ppb	
19) h butylcyclohexane	25.908	187694750	184.640	ppb	
20) naphthalene	28.749	124639753	310.645	ppb	m
23) mtbe #2	10.677f	40250861	256.049	ppb	
24) benzene #2	15.931	127028075	265.510	ppb	
26) toluene #2	20.220	118896684	266.435	ppb	
28) ethylbenzene #2	23.171	108390981	268.086	ppb	
29) m,p-xylene #2	23.307	257583489	523.422	ppb	
30) o-xylene #2	24.028	110009431	256.095	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	168355318	251.628	ppb	
32) 1,2,4-trimethylbenzen...	25.747	127084846	262.750	ppb	
33) naphthalene #2	28.749	101943811	343.988	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	127045219	262.812	ppb	m

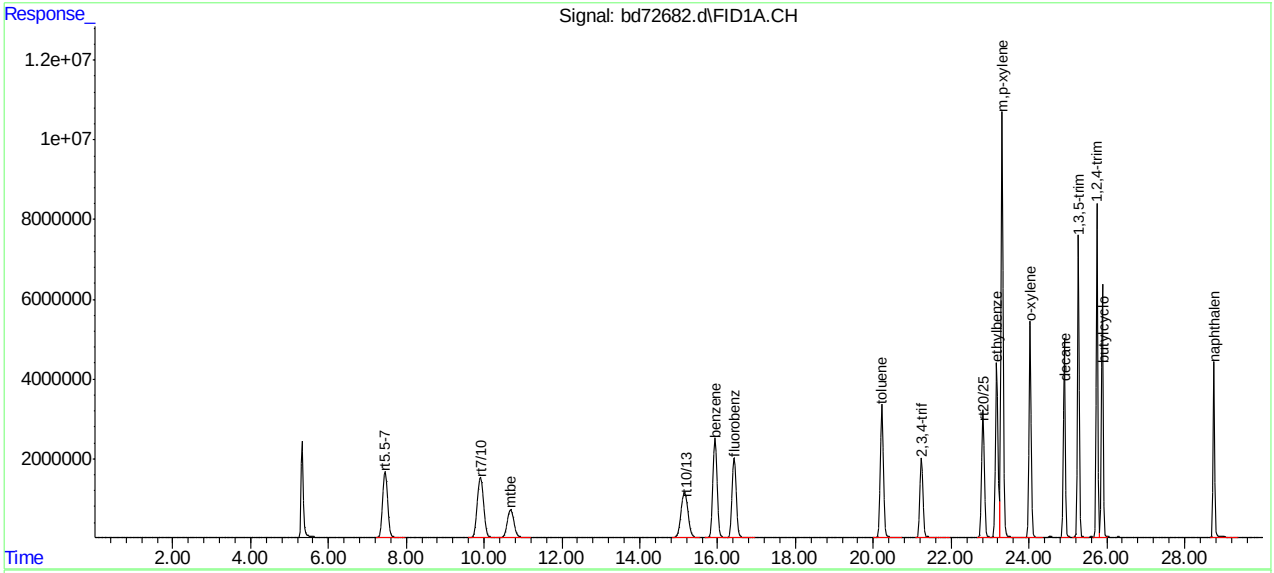
(f)=RT Delta > 1/2 Window (m)=manual int.

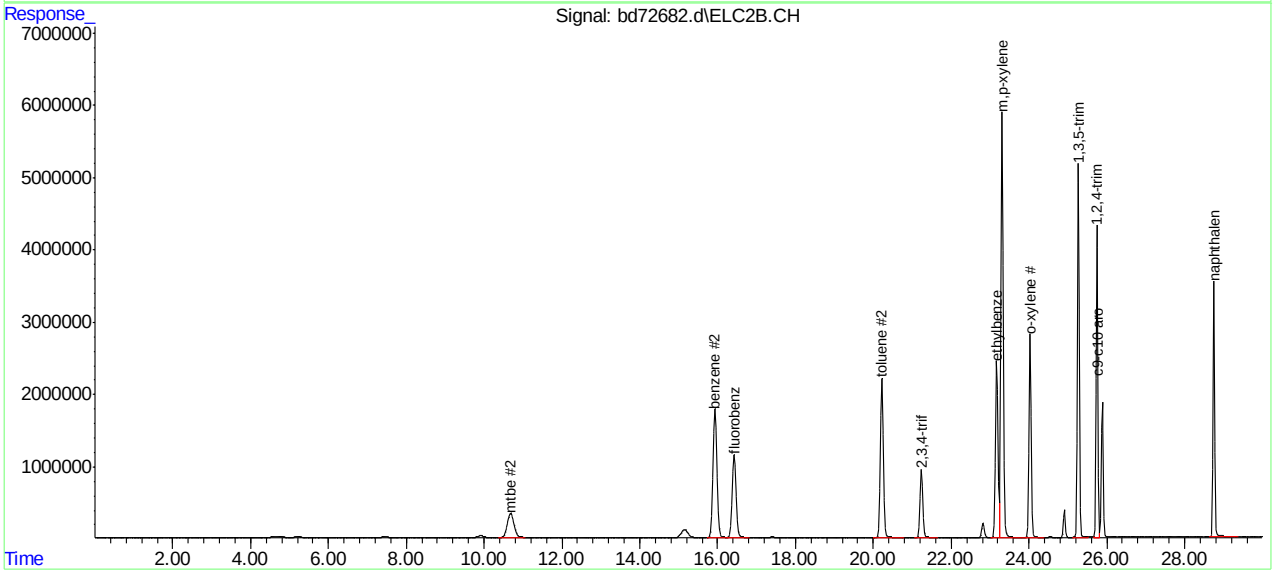
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3572-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





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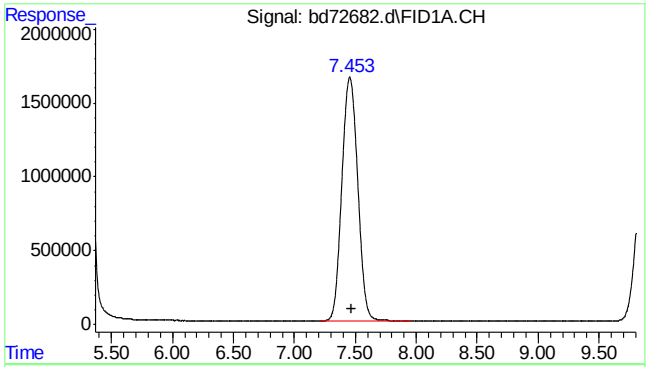
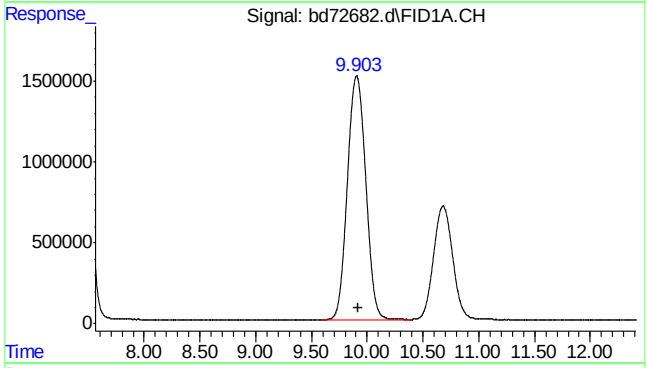


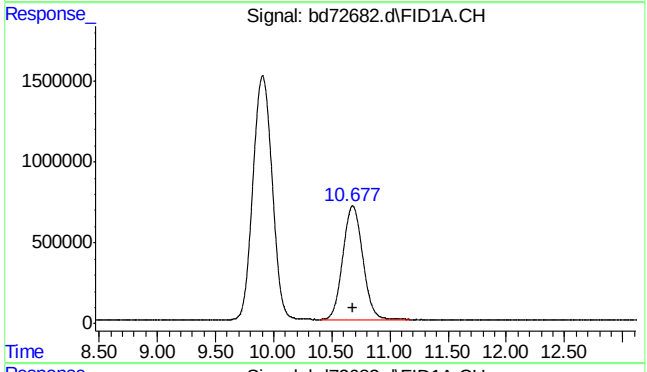
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 149066038
Conc: 254.48 ppb m



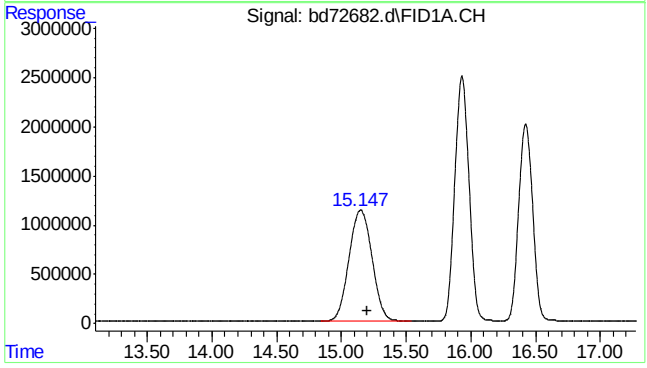
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 173228736
Conc: 254.41 ppb m



#3 mtbe

R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 84104242
Conc: 285.92 ppb



#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 140035220
Conc: 196.31 ppb m

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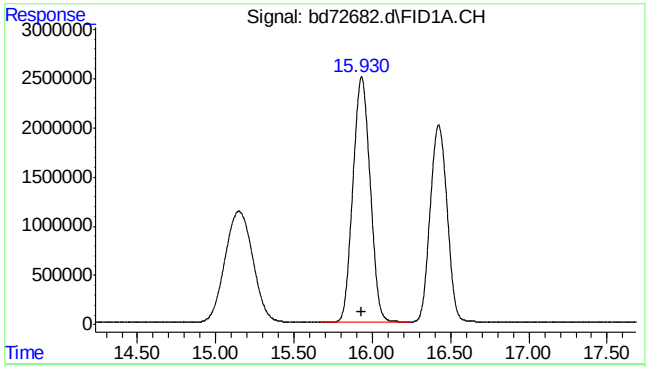
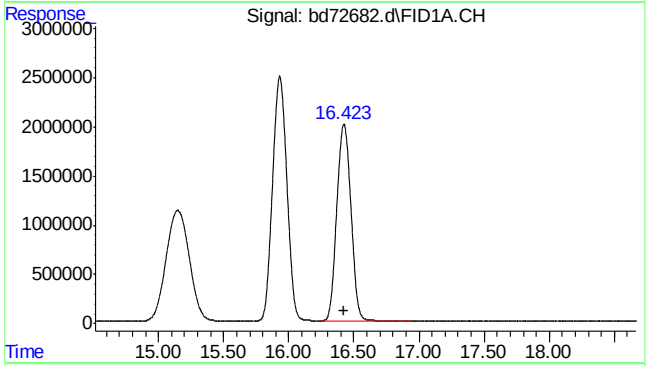


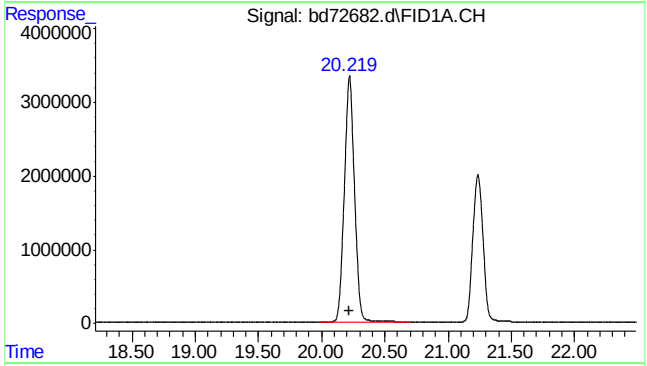
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 191470179
Conc: 243.95 ppb



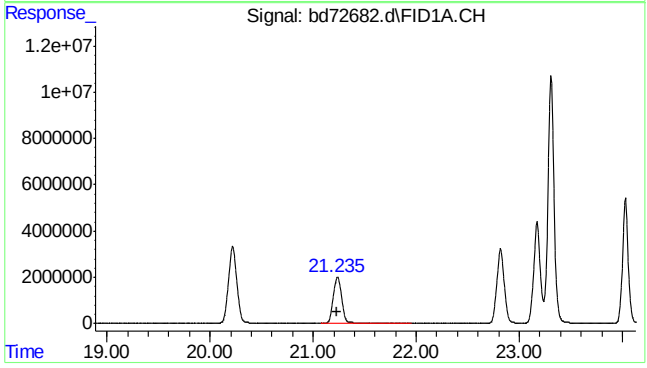
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 152497733
Conc: 212.99 ppb



#8 toluene

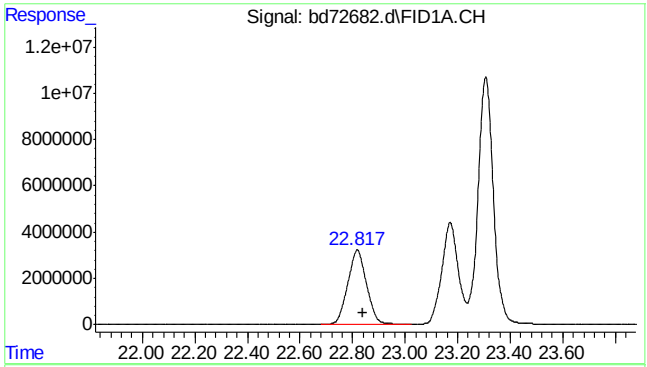
R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 185707723
Conc: 237.86 ppb



#9 2,3,4-trifluorotoluene

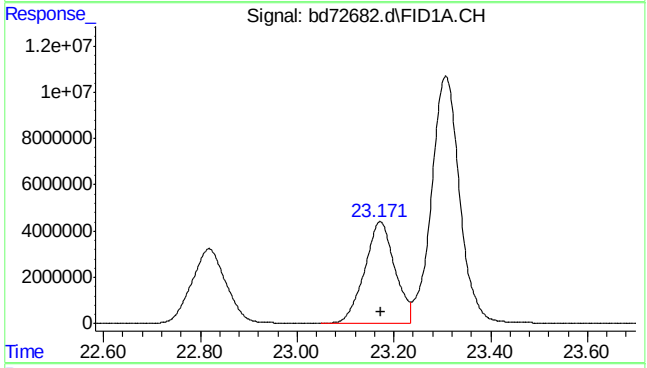
R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 112527515
Conc: 205.56 ppb

SGS ACCUTEST MC45969



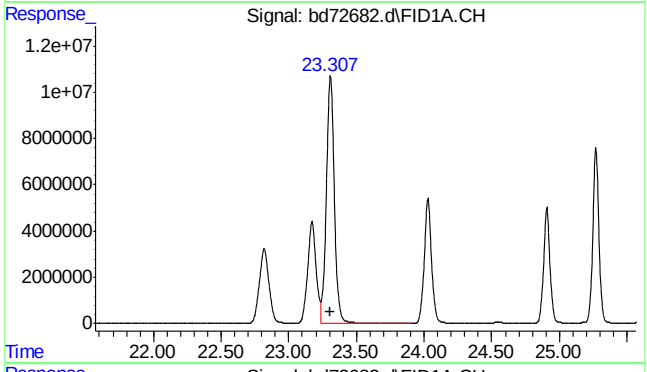
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 158091359
Conc: 178.38 ppb m



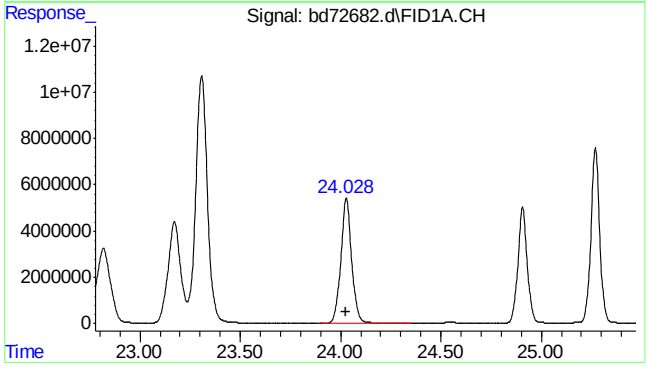
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 190000309
Conc: 239.28 ppb



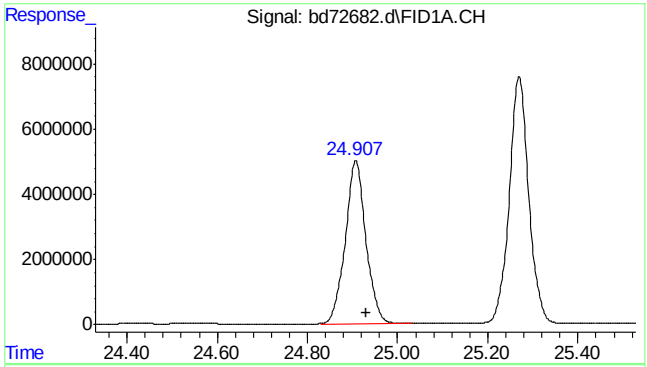
#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 432876904
Conc: 527.96 ppb



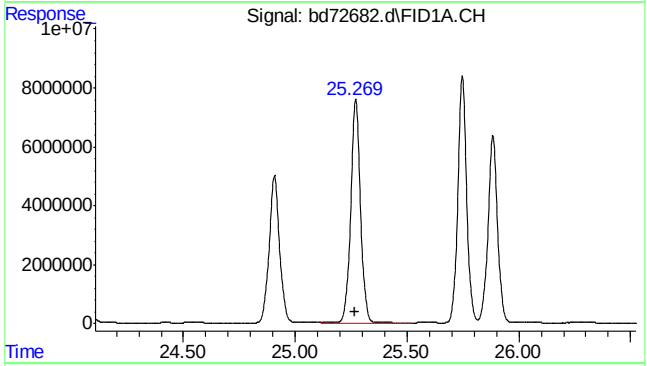
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 200540345
Conc: 237.62 ppb



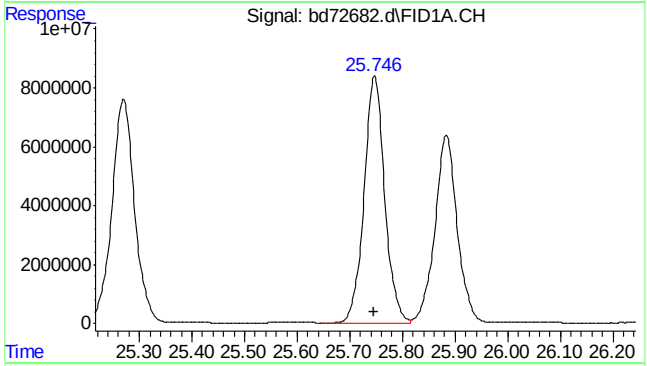
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 160400652
Conc: 156.53 ppb



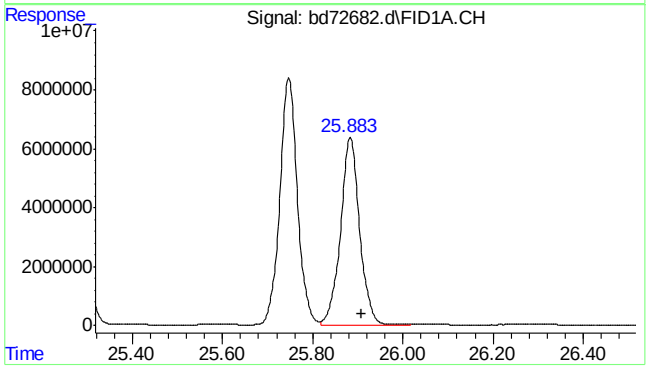
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 228714832
Conc: 245.48 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 227512016
Conc: 259.04 ppb



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 187694750
Conc: 184.64 ppb

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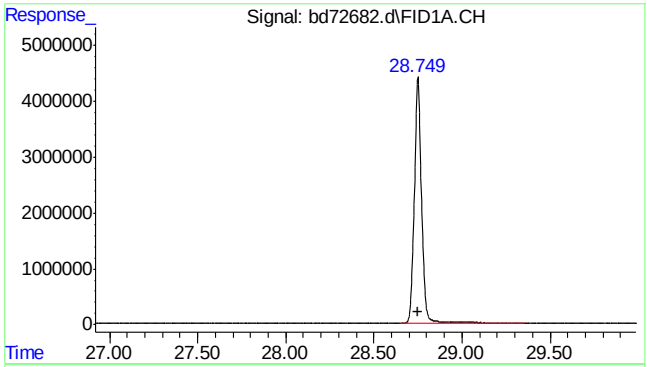
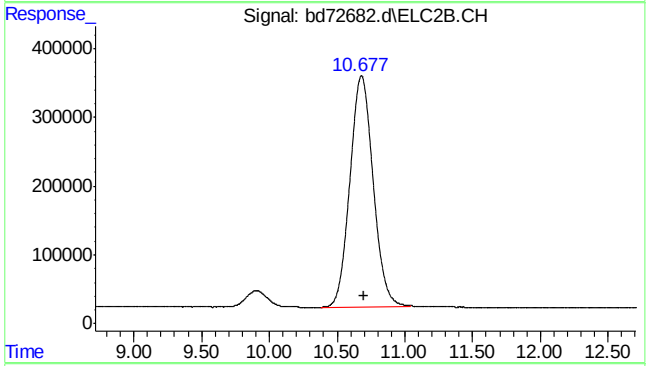


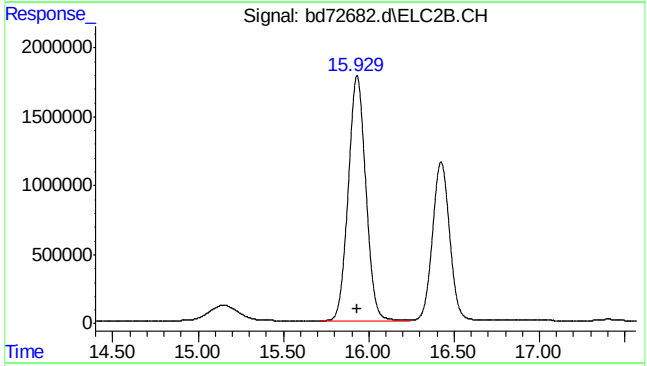
#20 naphthalene

R.T.: 28.749 min
Delta R.T.: -0.002 min
Response: 124639753
Conc: 310.64 ppb m



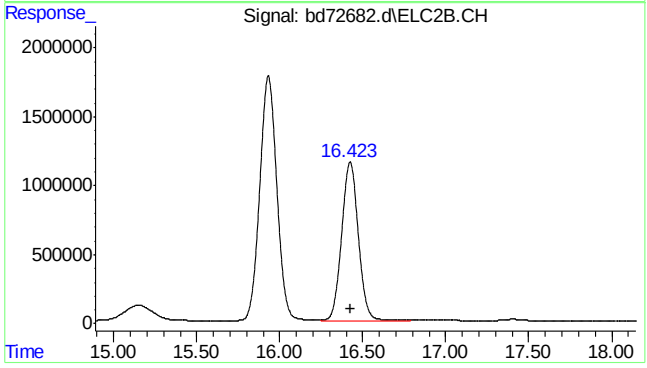
#23 mtbe #2

R.T.: 10.677 min
Delta R.T.: -0.019 min
Response: 40250861
Conc: 256.05 ppb



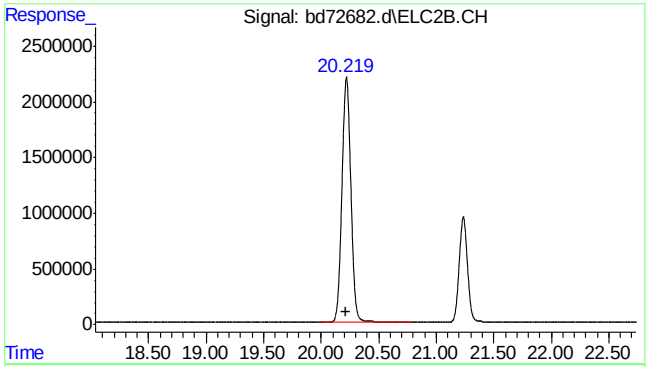
#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 127028075
Conc: 265.51 ppb



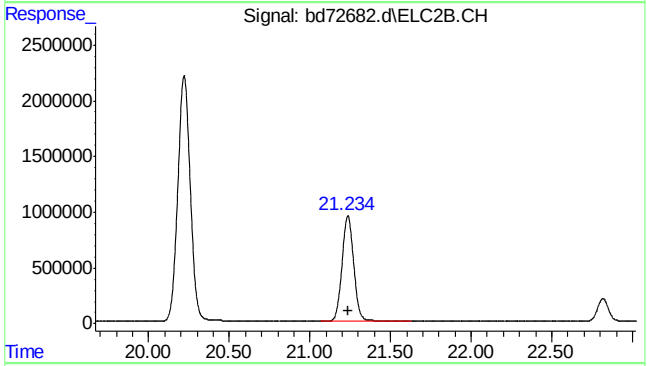
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 80345593
Conc: 227.93 ppb



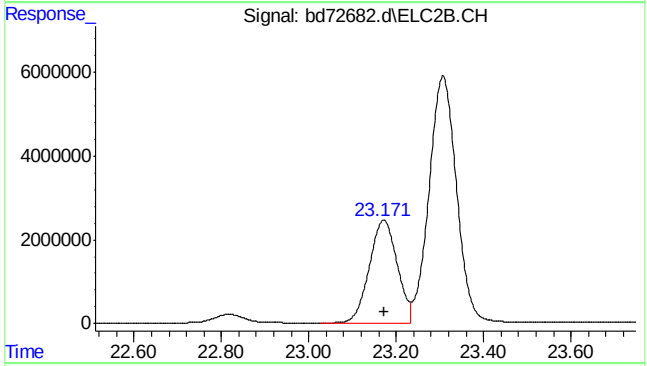
#26 toluene #2

R.T.: 20.220 min
Delta R.T.: -0.001 min
Response: 118896684
Conc: 266.44 ppb



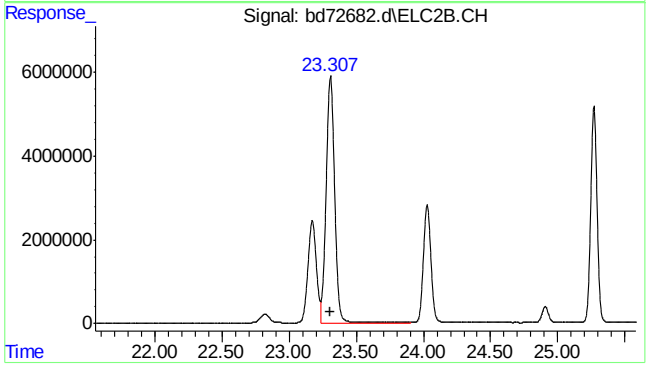
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 47736212
Conc: 238.55 ppb



#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 108390981
Conc: 268.09 ppb



#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 257583489
Conc: 523.42 ppb

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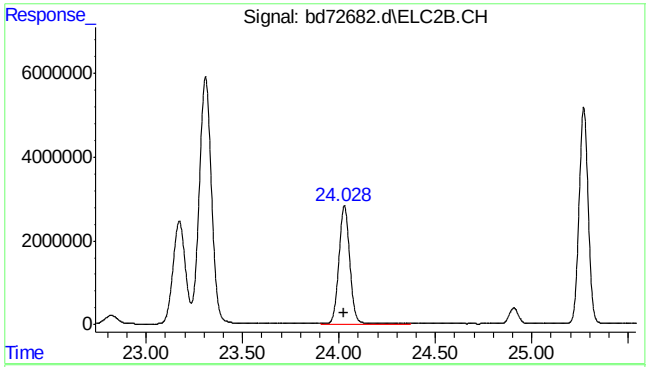
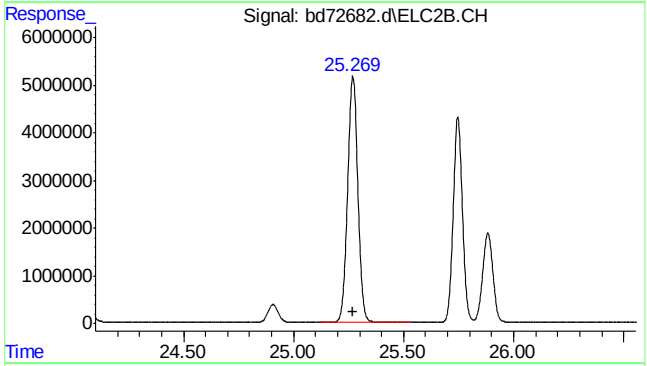


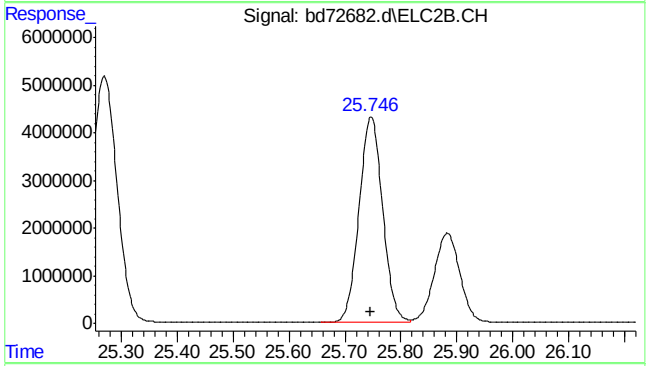
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 110009431
Conc: 256.10 ppb



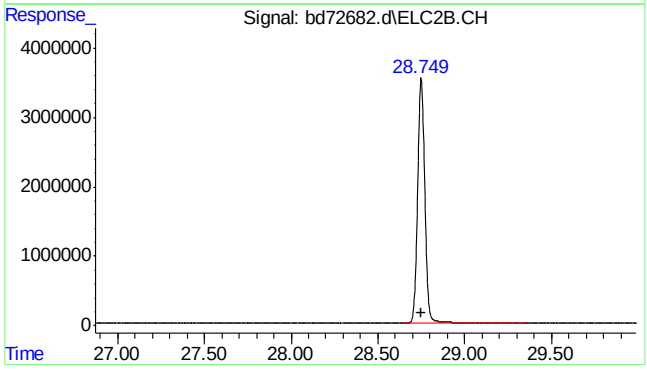
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 168355318
Conc: 251.63 ppb



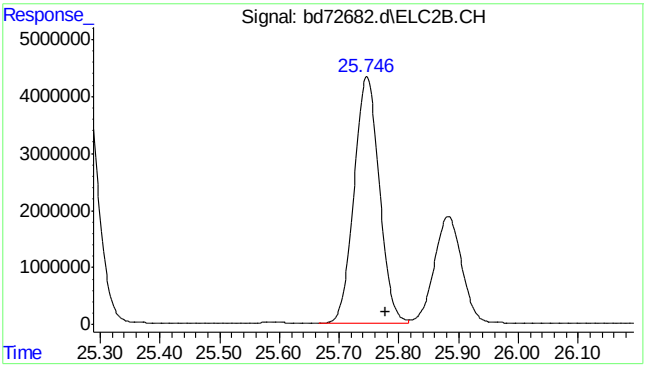
#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 127084846
Conc: 262.75 ppb



#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: -0.001 min
Response: 101943811
Conc: 343.99 ppb m



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

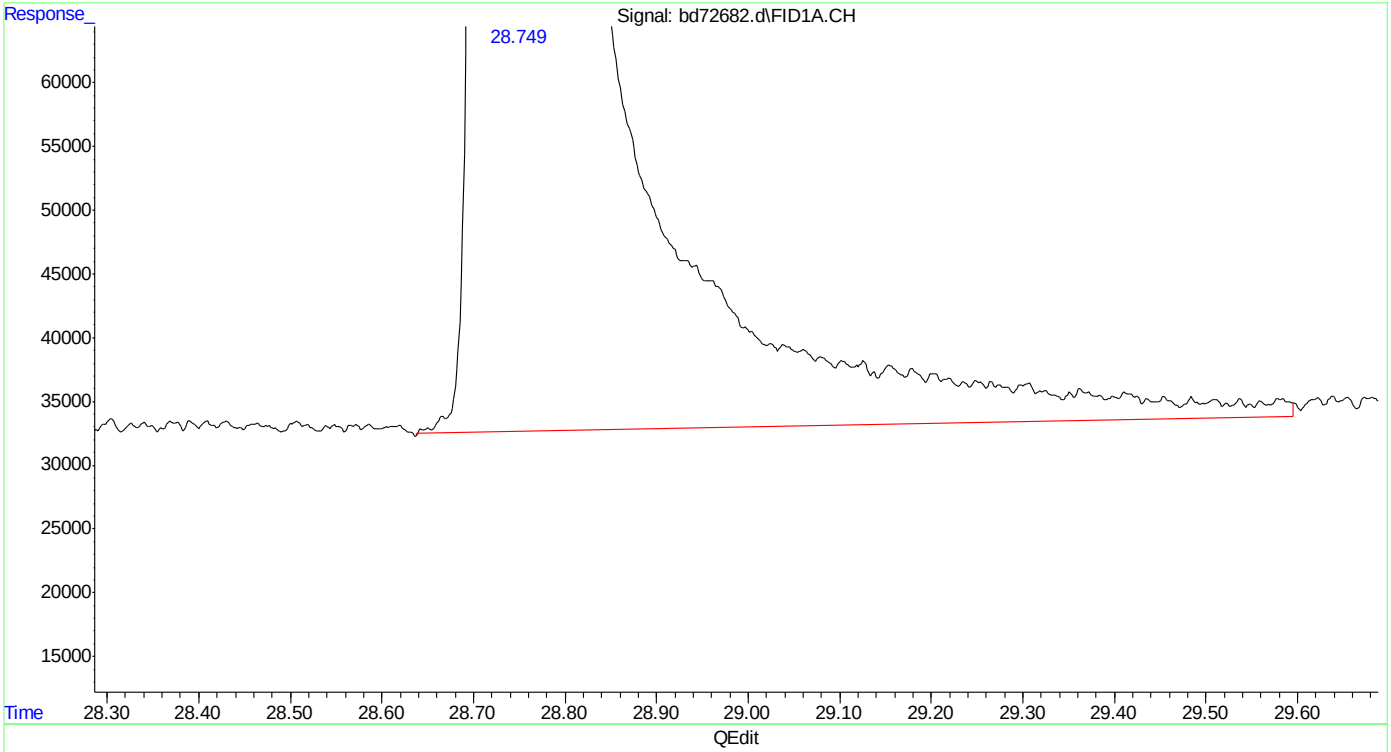
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 127045219
Conc: 262.81 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.750min 311.972 ppb
response 125172255

(+) = Expected Retention Time

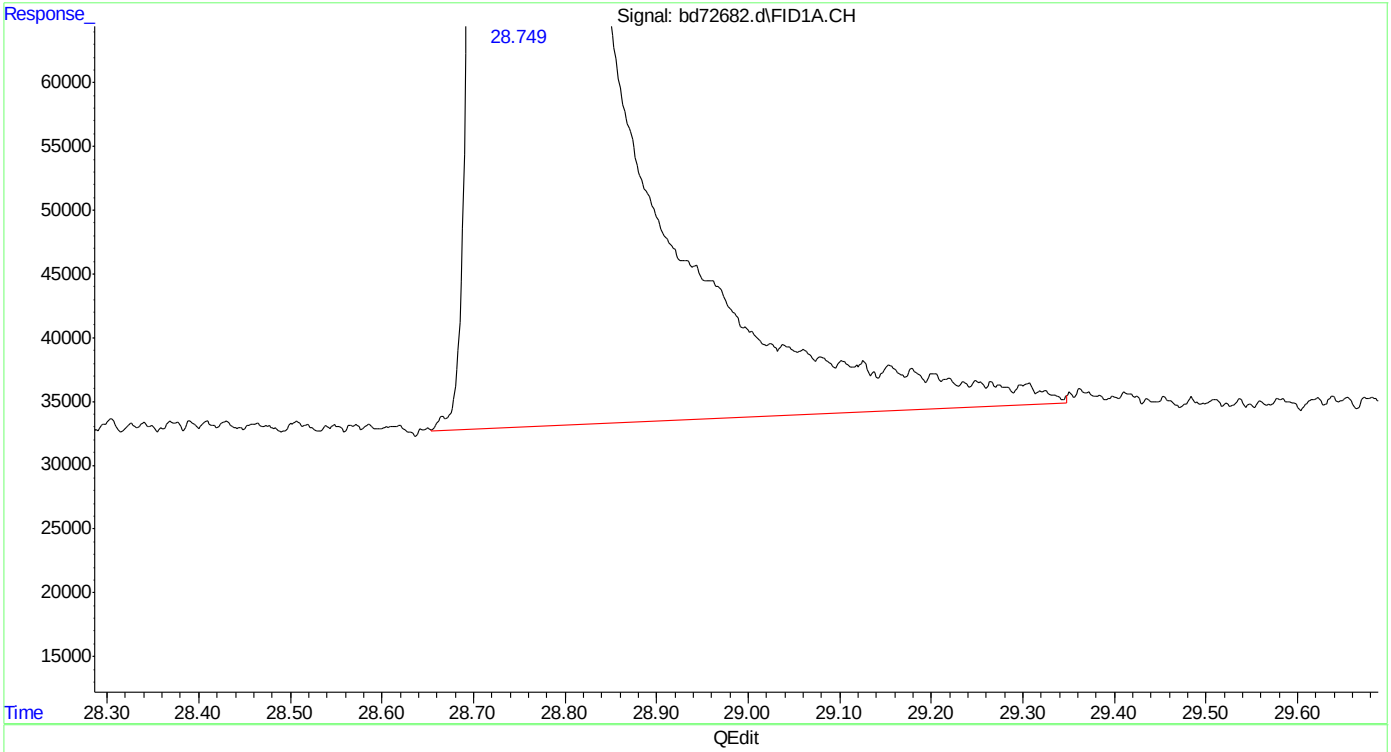
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.749min 310.645 ppb m
response 124639753

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:18:28 2016

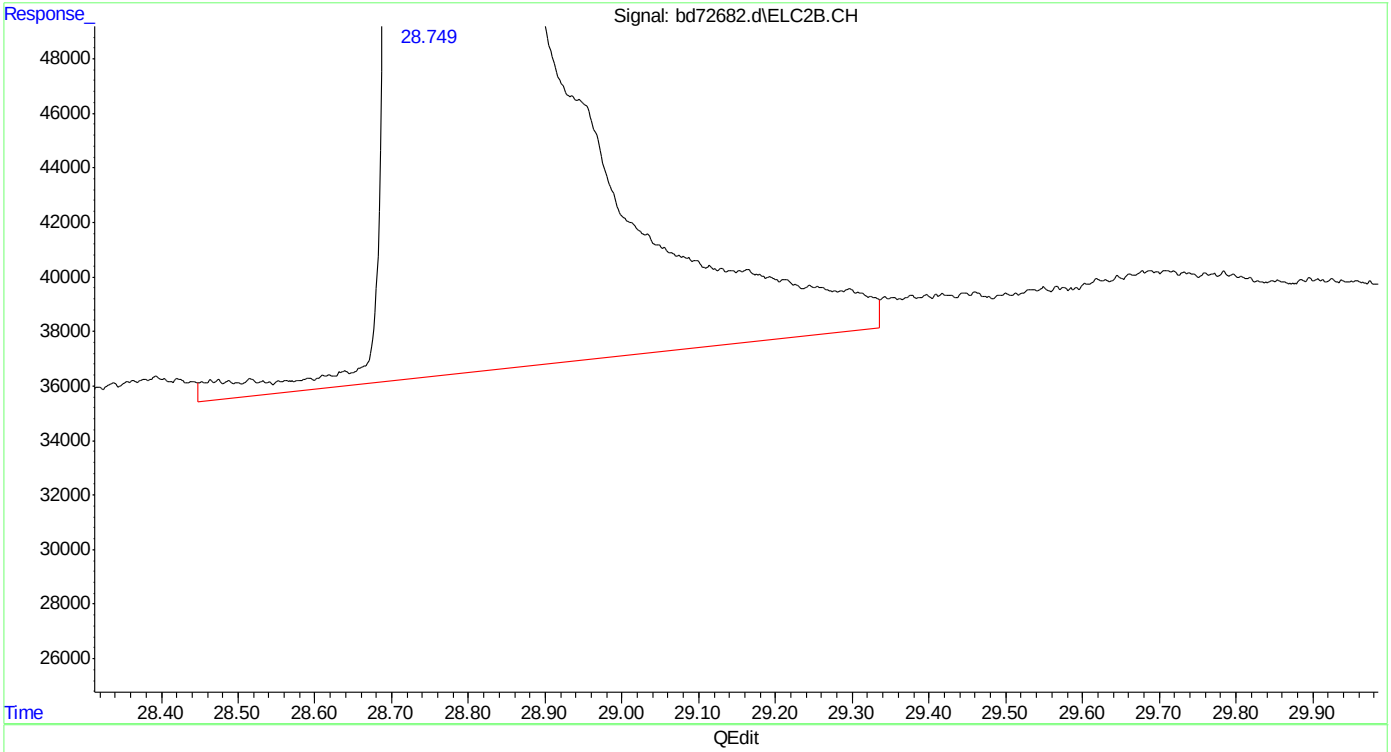
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.749min 345.179 ppb
response 102296947

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:18:44 2016

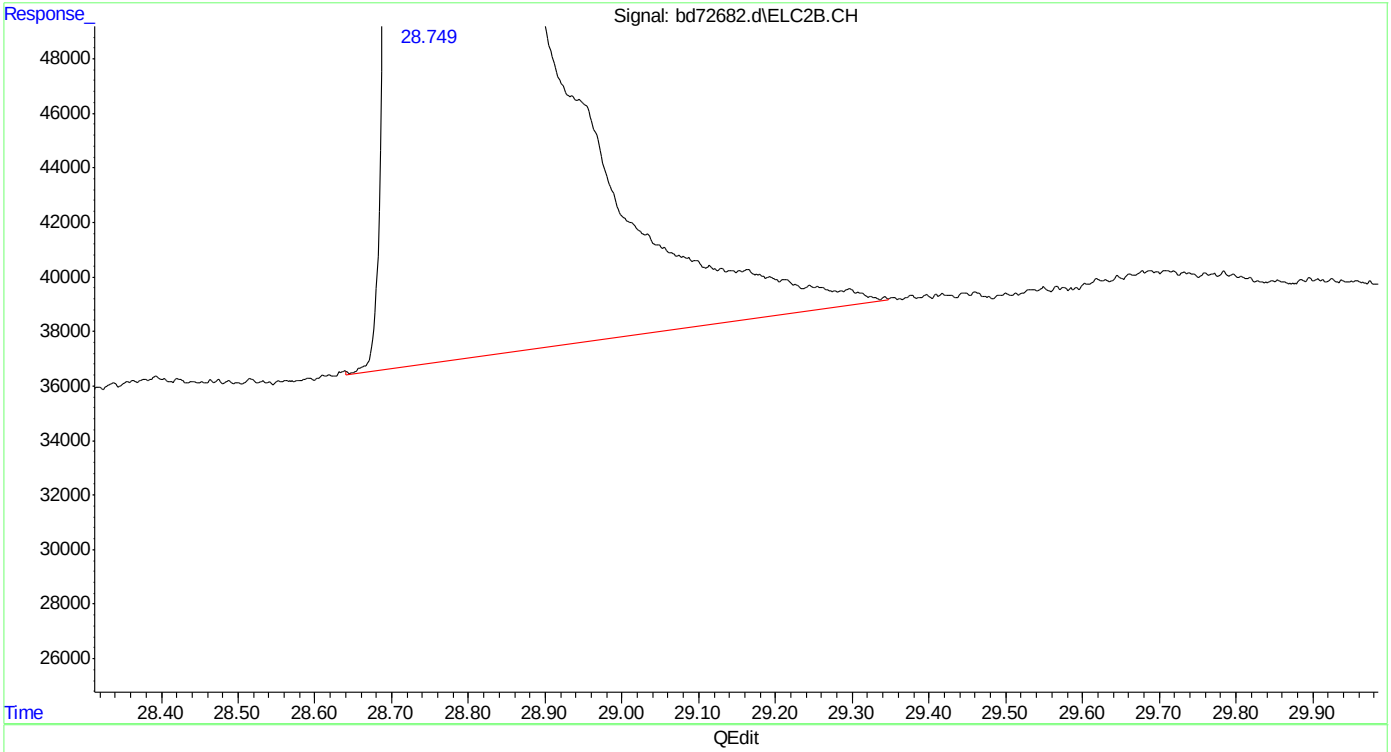
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.749min 343.988 ppb m
response 101943811

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:18:52 2016

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3572-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.423	70079072	97.467	ppb	
Spiked Amount 50.000		Recovery = 194.93%			
9) s 2,3,4-trifluorotoluene	21.235	54927490	100.409	ppb	
Spiked Amount 50.000		Recovery = 200.82%			
25) s fluorobenzene #2	16.423	32202770	89.804	ppb	
Spiked Amount 50.000		Recovery = 179.61%			
27) s 2,3,4-trifluorotoluen...	21.235	18910642	93.473	ppb	
Spiked Amount 50.000		Recovery = 186.95%			
Target Compounds					
1) h rt5.5-7	7.470	64982591	113.418	ppb	m
2) h rt7/10	9.920	74322538	111.188	ppb	m
3) mtbe	10.681	33800413	118.441	ppb	m
4) h rt10/13	15.200	67623819	93.821	ppb	m
5) benzene	15.931	87774837	114.545	ppb	
8) toluene	20.219	84423859	109.922	ppb	
11) h rt20/25	22.840	74314298	81.227	ppb	m
13) ethylbenzene	23.170	81550653	103.259	ppb	
14) m,p-xylene	23.306	152799260	183.855	ppb	
15) o-xylene	24.027	82145326	96.818	ppb	
16) h decane	24.930	68348944	62.536	ppb	
17) t 1,3,5-trimethylbenzene	25.269	84145233	88.598	ppb	
18) 1,2,4-trimethylbenzene	25.746	81329260	91.247	ppb	
19) h butylcyclohexane	25.908	73745152	68.769	ppb	
20) naphthalene	28.748	53350849	142.355	ppb	m
23) mtbe #2	10.682	16670409	107.344	ppb	m
24) benzene #2	15.930	50557437	106.886	ppb	
26) toluene #2	20.219	47109892	106.757	ppb	
28) ethylbenzene #2	23.170	42468306	106.107	ppb	
29) m,p-xylene #2	23.305	102263487	209.439	ppb	
30) o-xylene #2	24.027	43129270	100.483	ppb	
31) t 1,3,5-trimethylbenzen...	25.268	65671528	97.793	ppb	
32) 1,2,4-trimethylbenzen...	25.746	49399372	102.572	ppb	
33) naphthalene #2	28.748	41651706	152.947	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	49381850	102.596	ppb	m

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

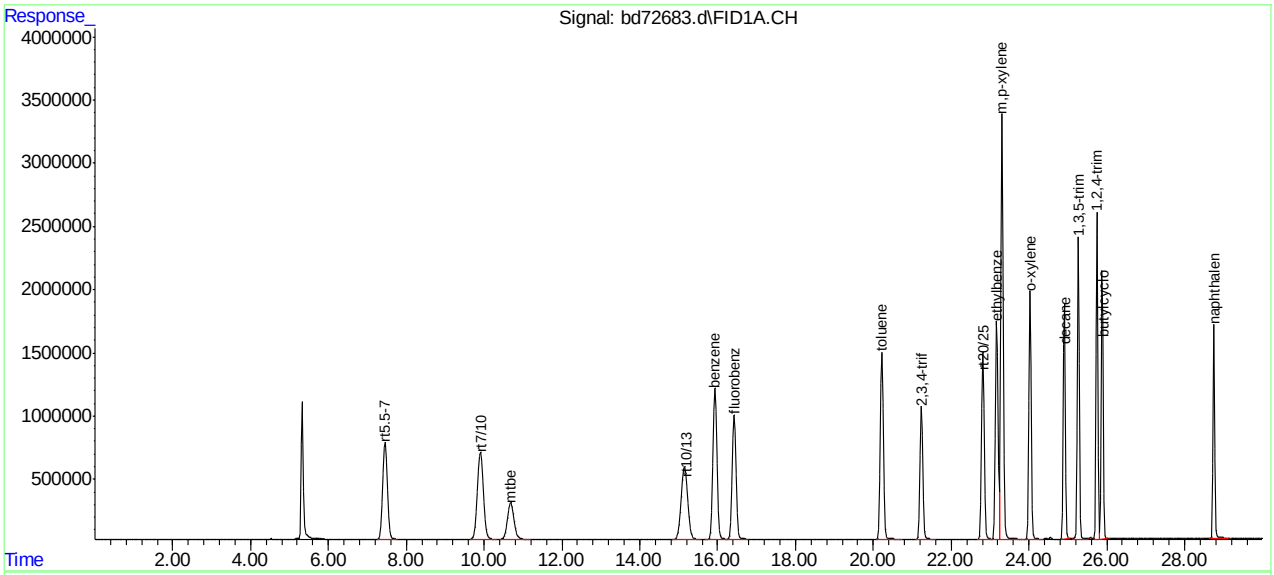
SGS ACCUTEST MC45969

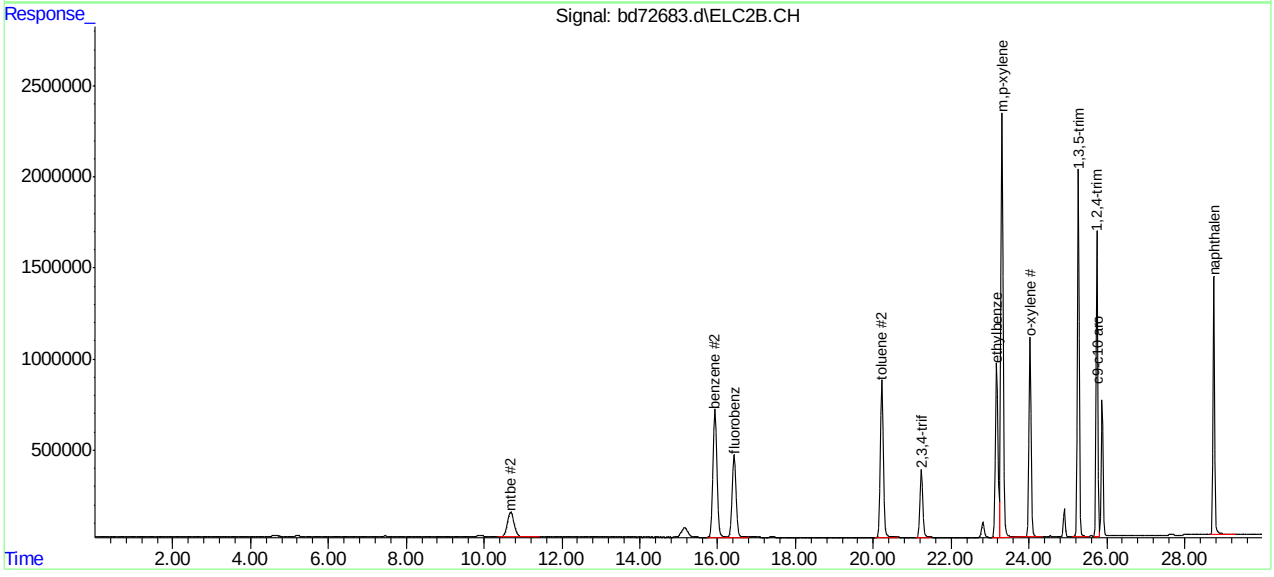
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3572-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

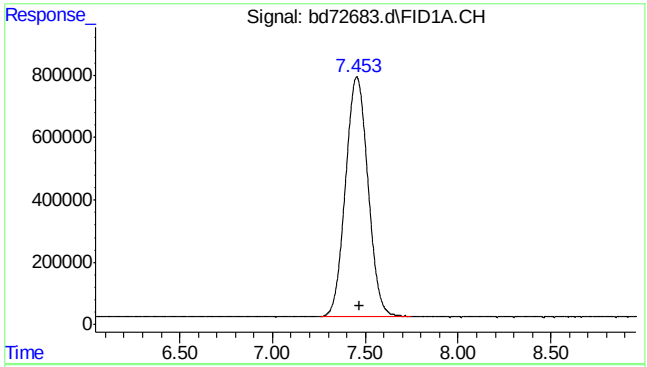
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



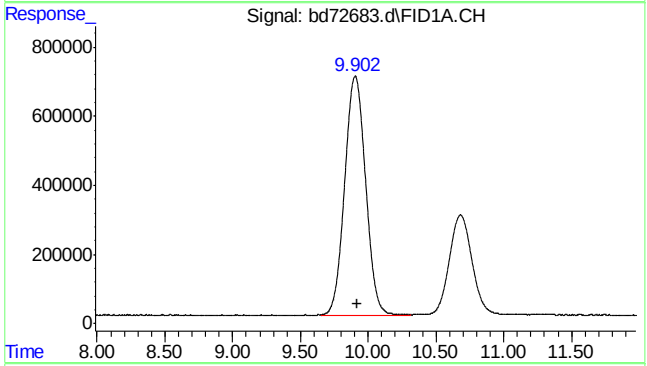


SGS ACCUTEST MC45969



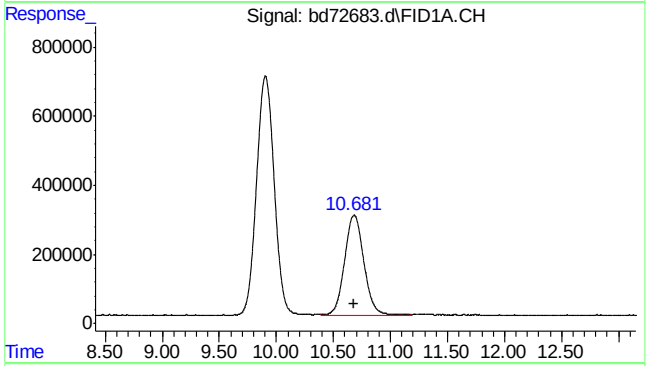
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 64982591
Conc: 113.42 ppb m



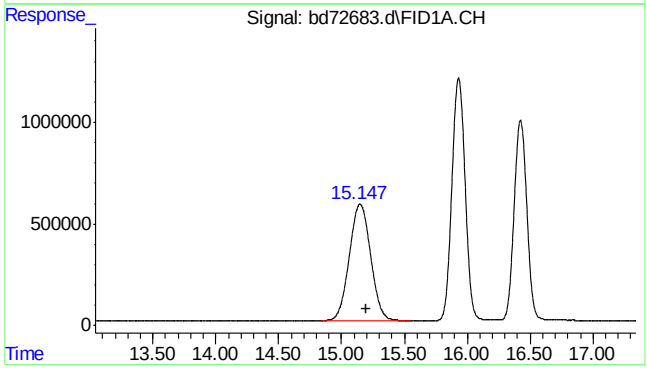
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 74322538
Conc: 111.19 ppb m



#3 mtbe

R.T.: 10.681 min
Delta R.T.: -0.002 min
Response: 33800413
Conc: 118.44 ppb m



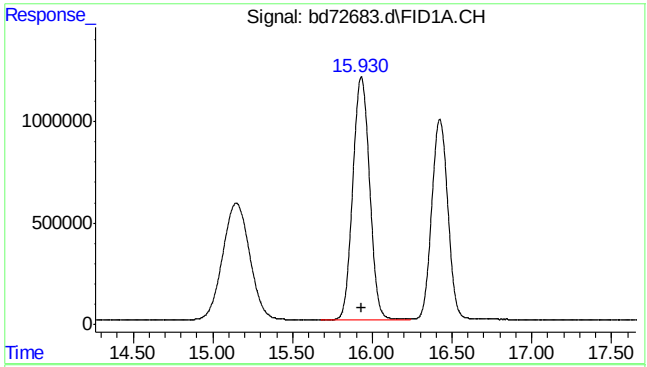
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 67623819
Conc: 93.82 ppb m

7.5.4

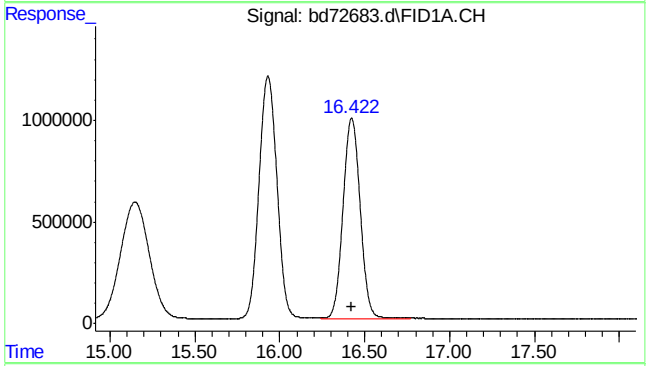
7

SGS ACCUTEST MC45969



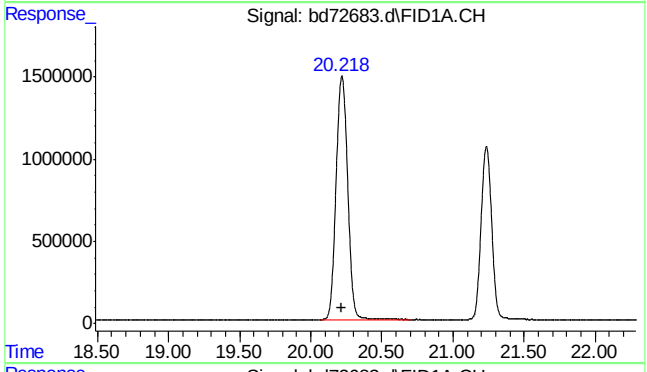
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 87774837
Conc: 114.55 ppb



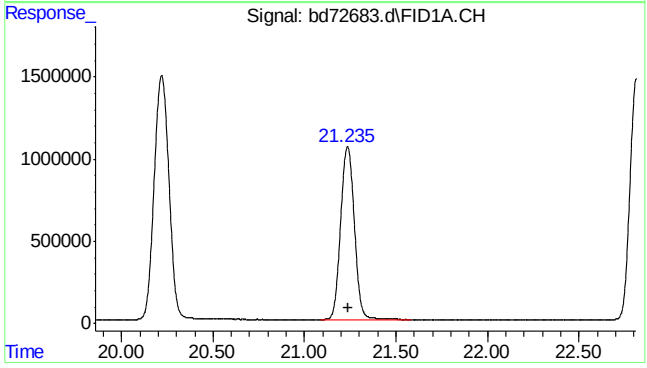
#6 fluorobenzene

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 70079072
Conc: 97.47 ppb



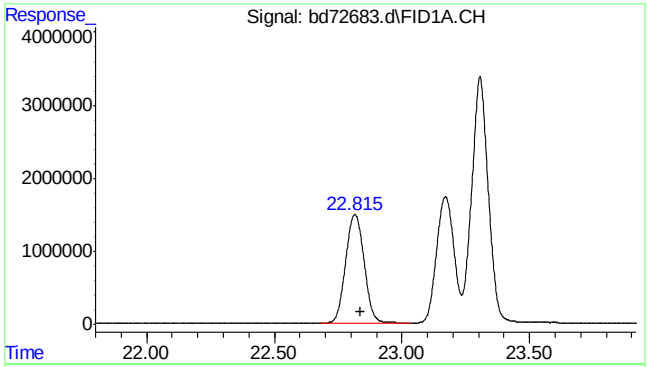
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 84423859
Conc: 109.92 ppb



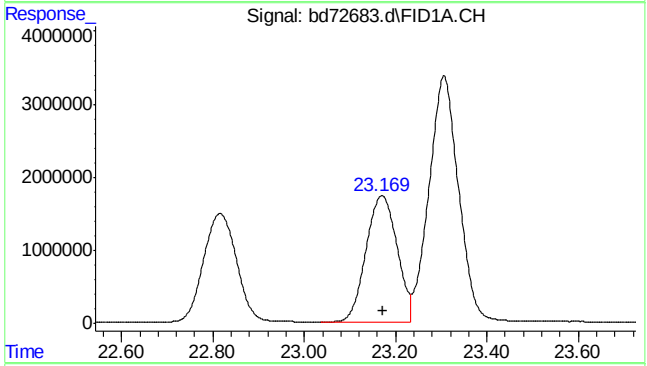
#9 2,3,4-trifluorotoluene

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 54927490
Conc: 100.41 ppb



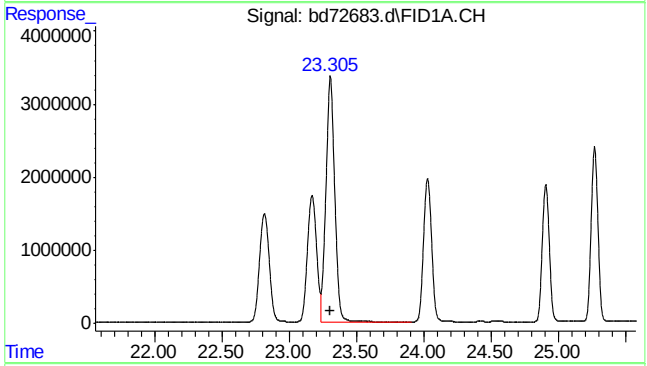
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 74314298
Conc: 81.23 ppb m



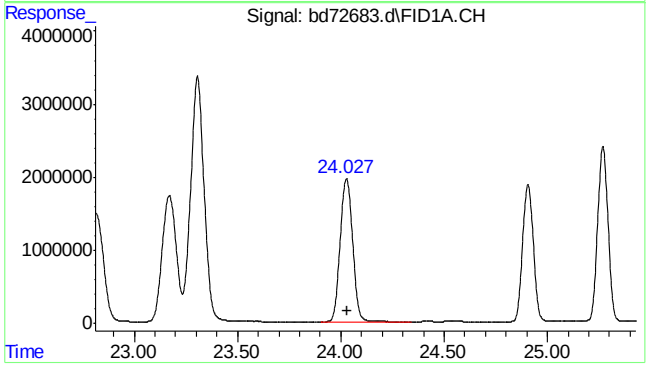
#13 ethylbenzene

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 81550653
Conc: 103.26 ppb



#14 m,p-xylene

R.T.: 23.306 min
Delta R.T.: -0.001 min
Response: 152799260
Conc: 183.86 ppb



#15 o-xylene

R.T.: 24.027 min
Delta R.T.: -0.002 min
Response: 82145326
Conc: 96.82 ppb

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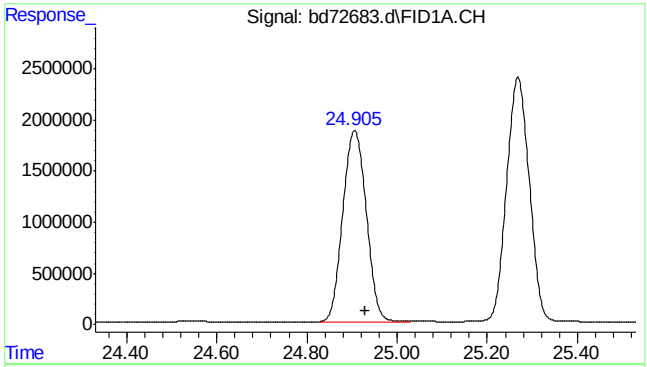
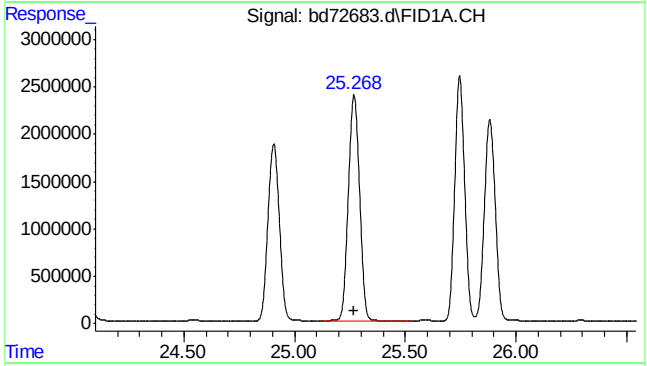


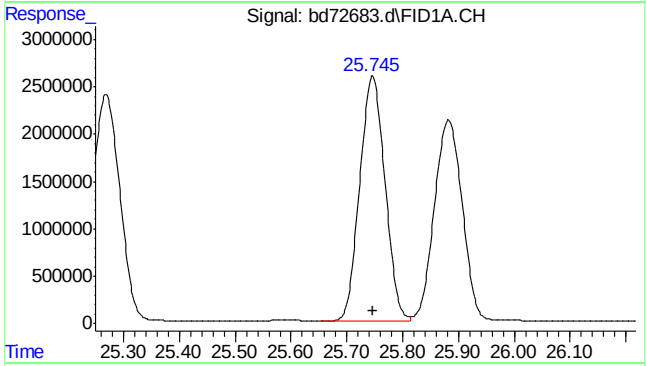
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 68348944
Conc: 62.54 ppb



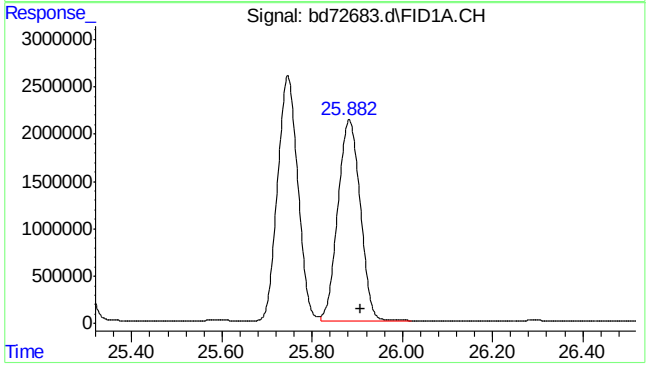
#17 1,3,5-trimethylbenzene

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 84145233
Conc: 88.60 ppb



#18 1,2,4-trimethylbenzene

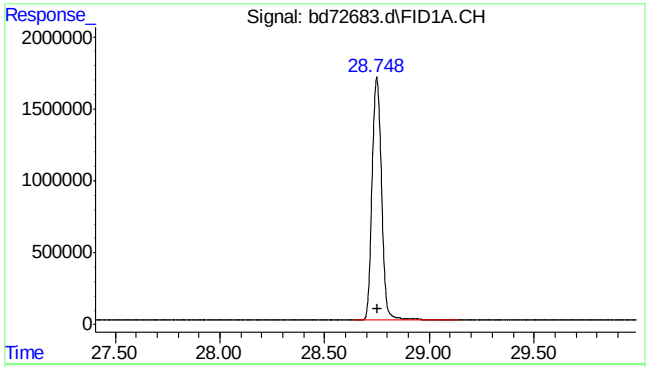
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 81329260
Conc: 91.25 ppb



#19 butylcyclohexane

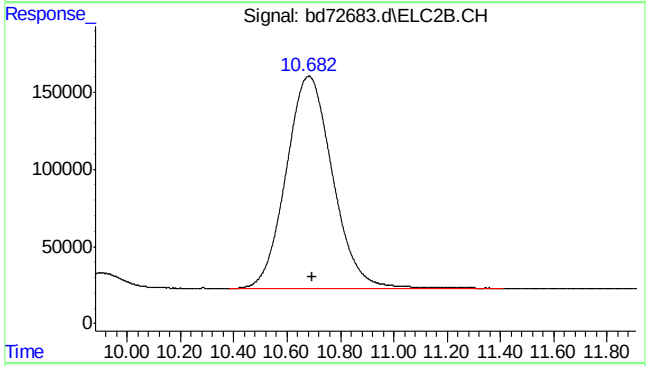
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 73745152
Conc: 68.77 ppb

SGS ACCUTEST MC45969



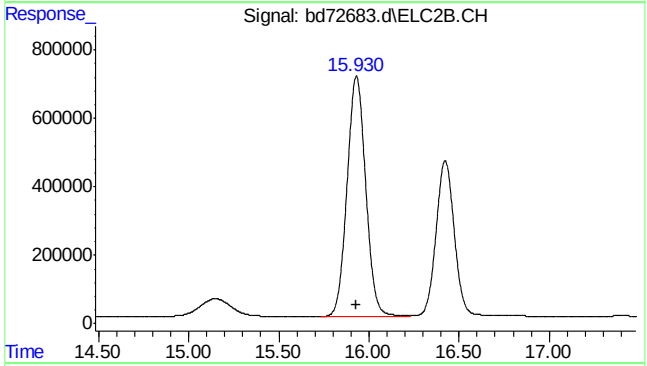
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 53350849
Conc: 142.35 ppb m



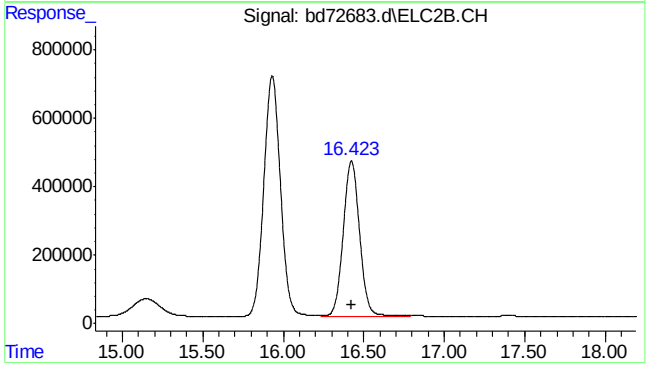
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 16670409
Conc: 107.34 ppb m



#24 benzene #2

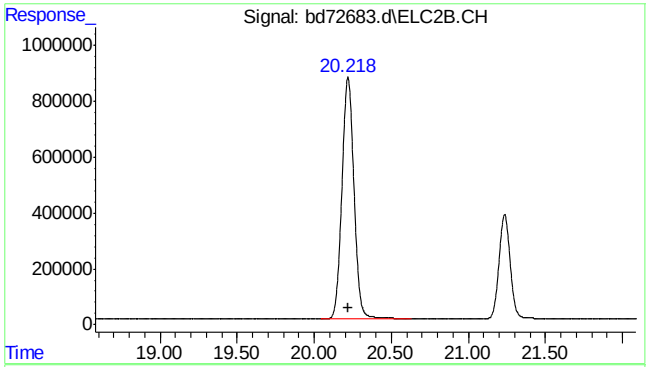
R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 50557437
Conc: 106.89 ppb



#25 fluorobenzene #2

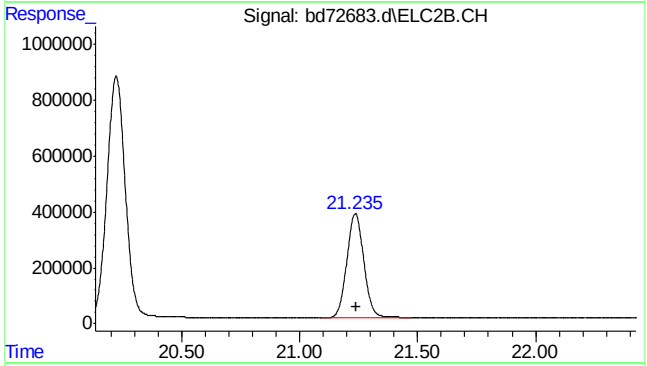
R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 32202770
Conc: 89.80 ppb

SGS ACCUTEST MC45969



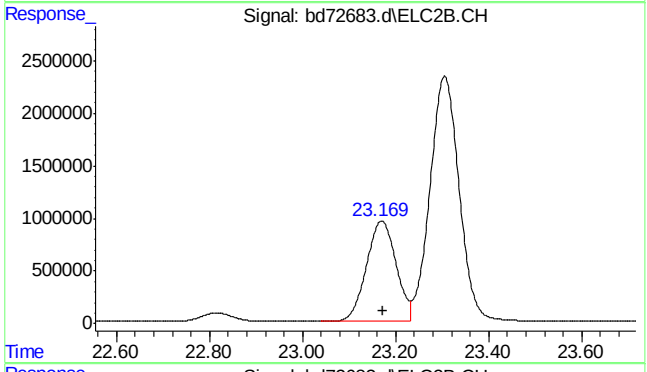
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 47109892
Conc: 106.76 ppb



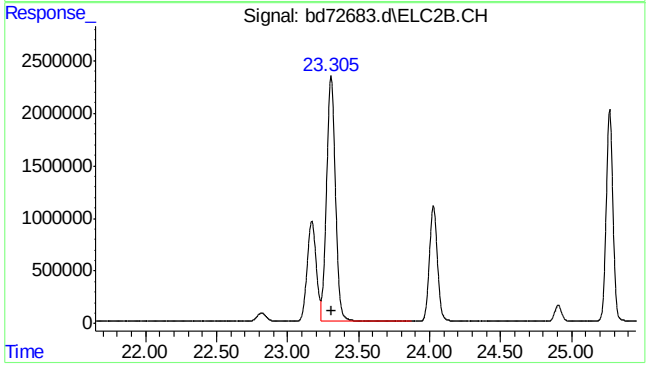
#27 2,3,4-trifluorotoluene #2

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 18910642
Conc: 93.47 ppb



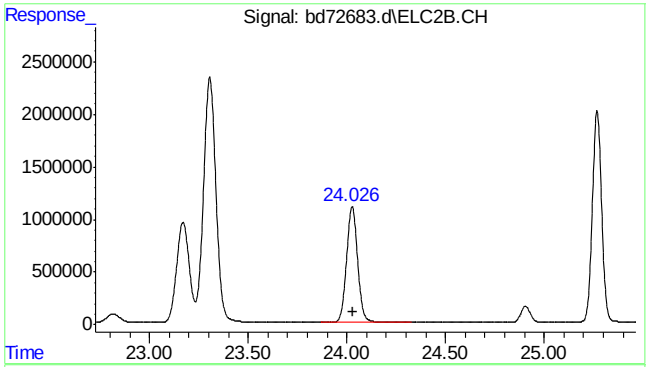
#28 ethylbenzene #2

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 42468306
Conc: 106.11 ppb



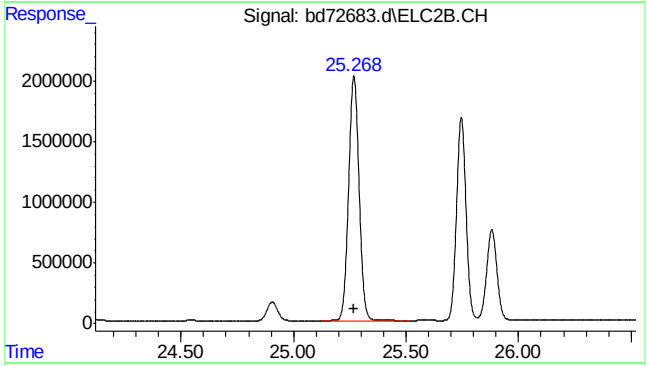
#29 m,p-xylene #2

R.T.: 23.305 min
Delta R.T.: -0.002 min
Response: 102263487
Conc: 209.44 ppb



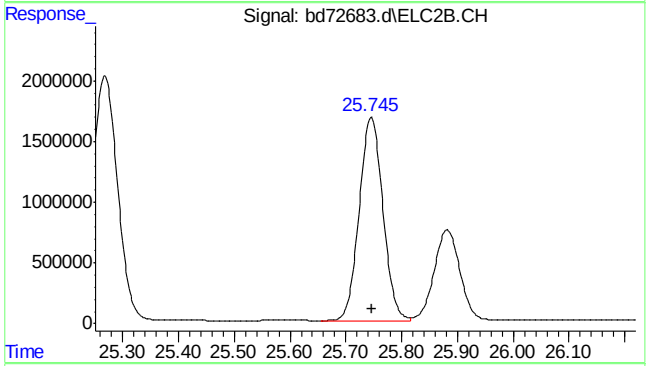
#30 o-xylene #2

R.T.: 24.027 min
Delta R.T.: -0.001 min
Response: 43129270
Conc: 100.48 ppb



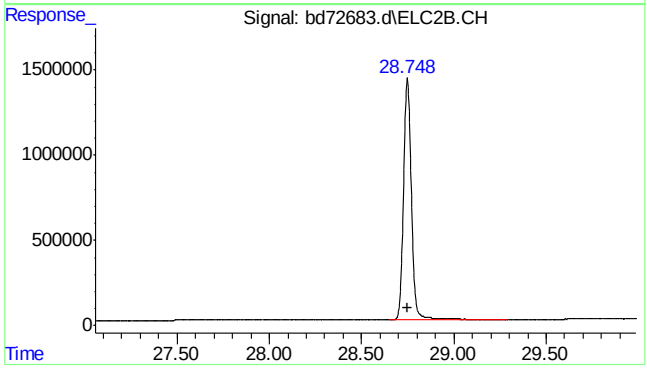
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 65671528
Conc: 97.79 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 49399372
Conc: 102.57 ppb



#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 41651706
Conc: 152.95 ppb m

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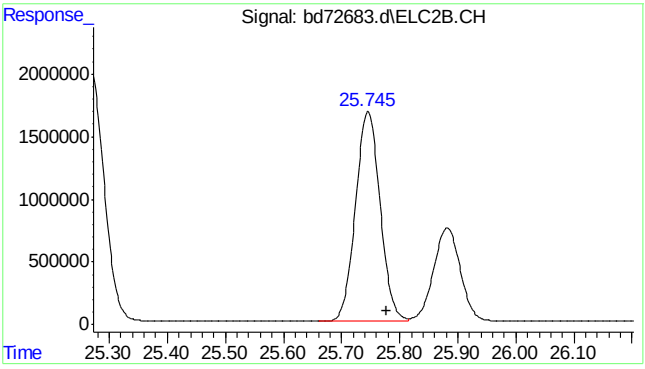


#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 49381850
Conc: 102.60 ppb m

7.5.4

7

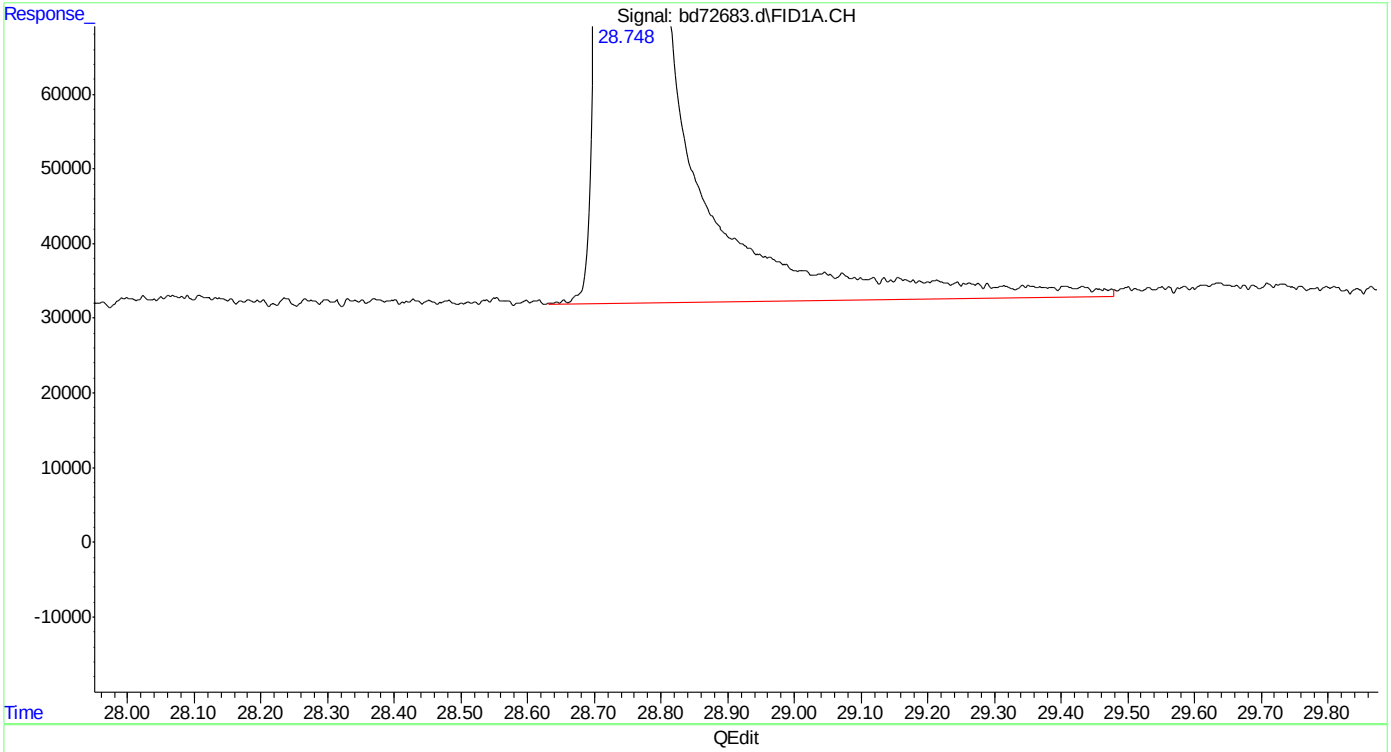
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 09:29:50
Operator  : tonyf
Sample    : ic3752-100
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene

28.749min 143.778 ppb

response 53884167

(+) = Expected Retention Time

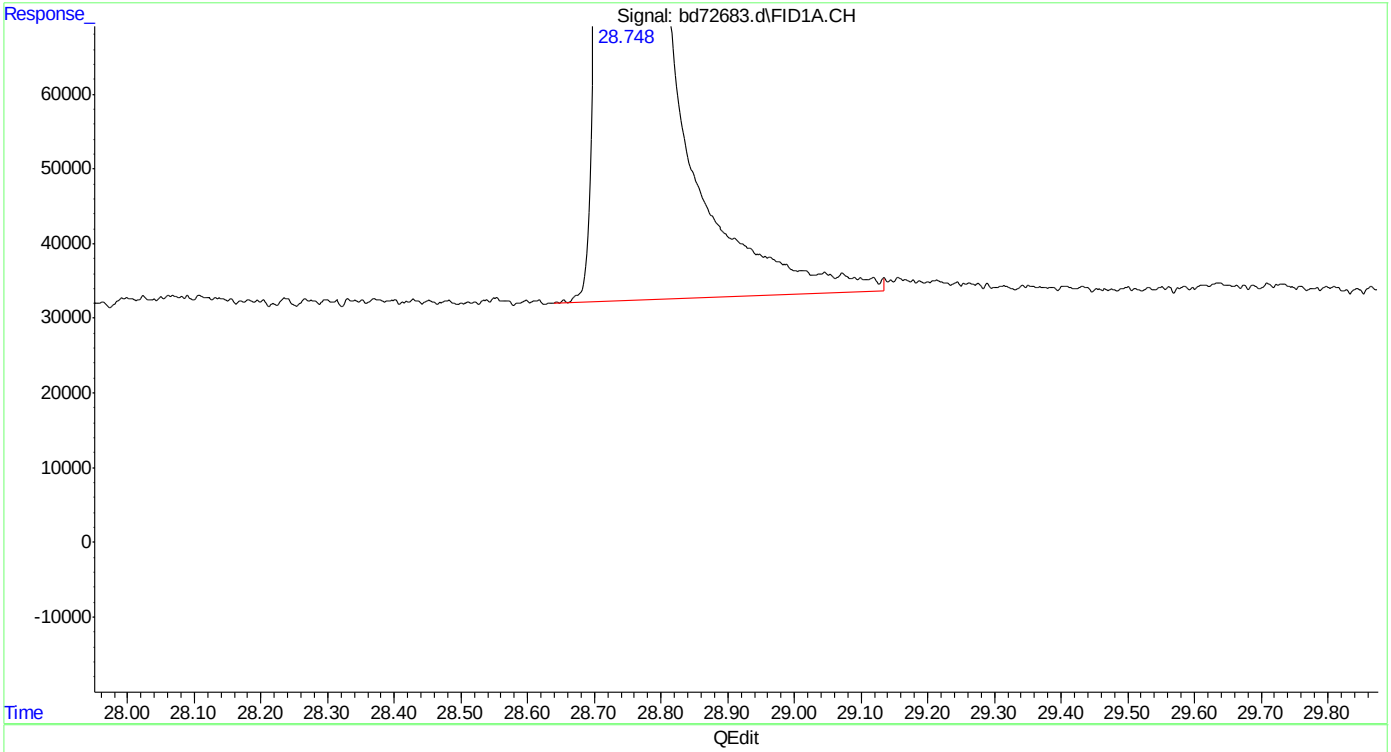
bd160219master.M Fri Feb 19 13:16:11 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 09:29:50
Operator  : tonyf
Sample    : ic3752-100
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene

28.748min 142.355 ppb m

response 53350849

(+) = Expected Retention Time

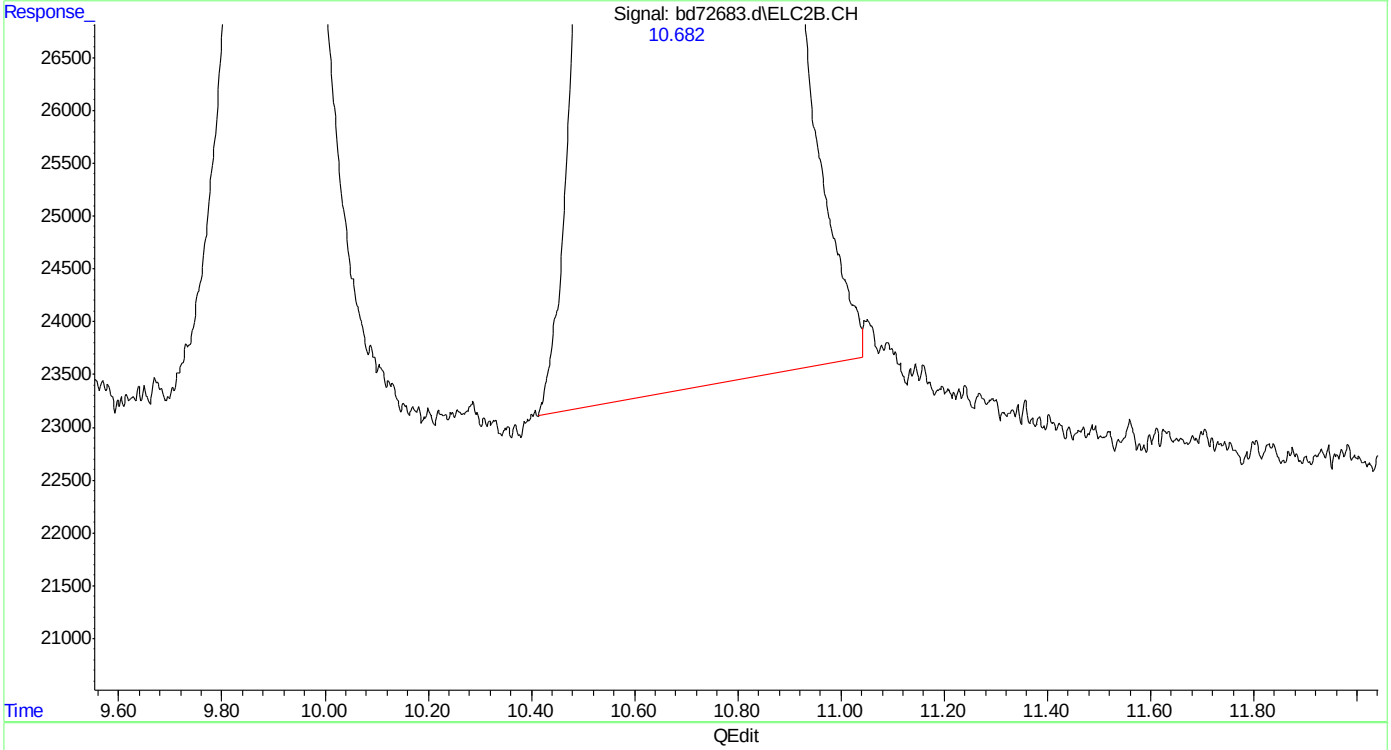
bd160219master.M Fri Feb 19 13:16:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.683min 105.694 ppb
response 16414171

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:26 2016

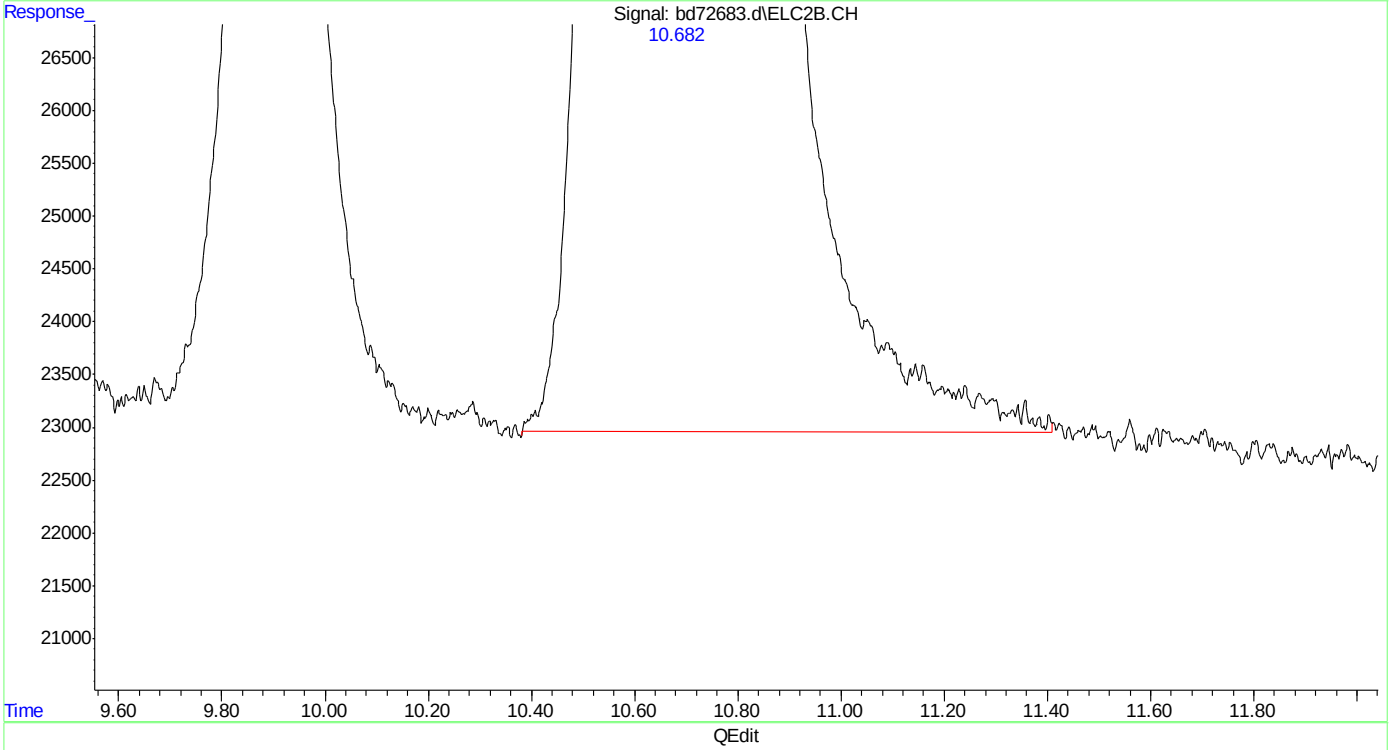
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.682min 107.344 ppb m
response 16670409

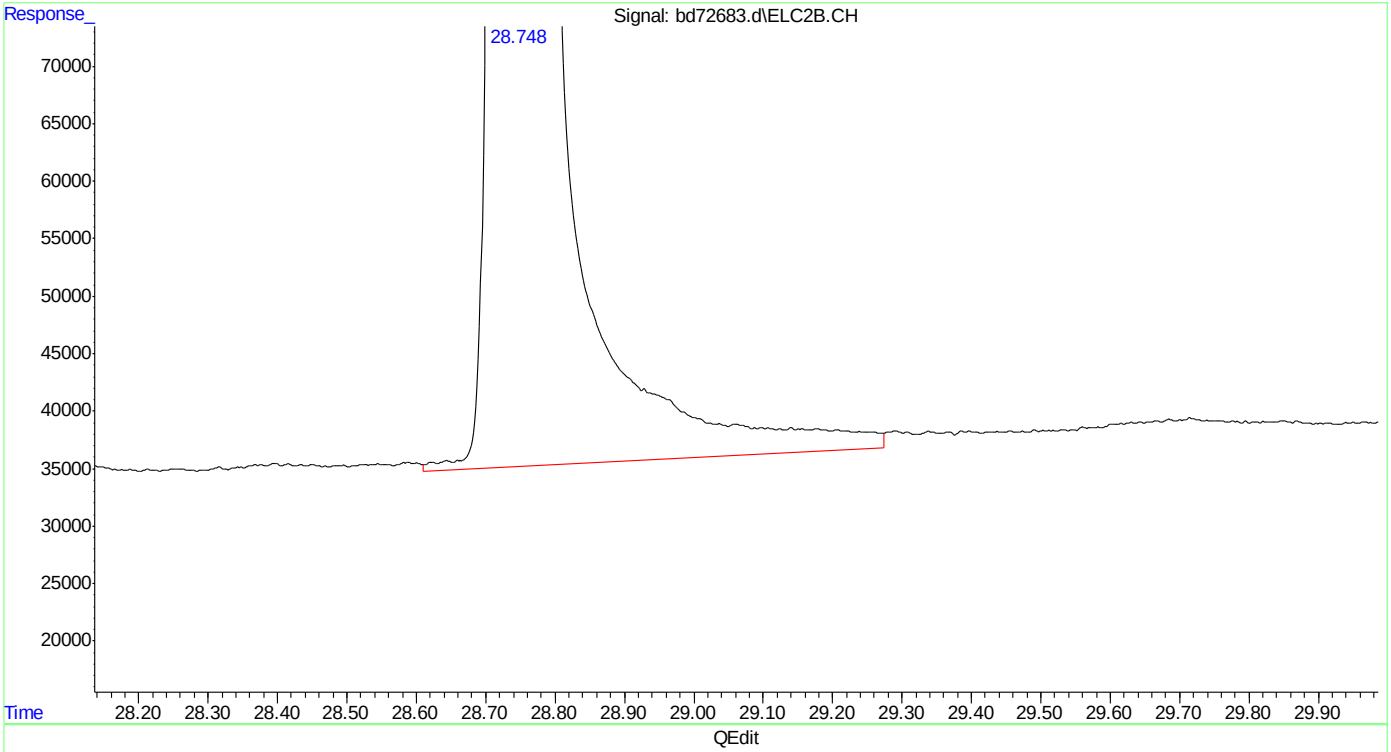
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.748min 154.186 ppb
response 41988930

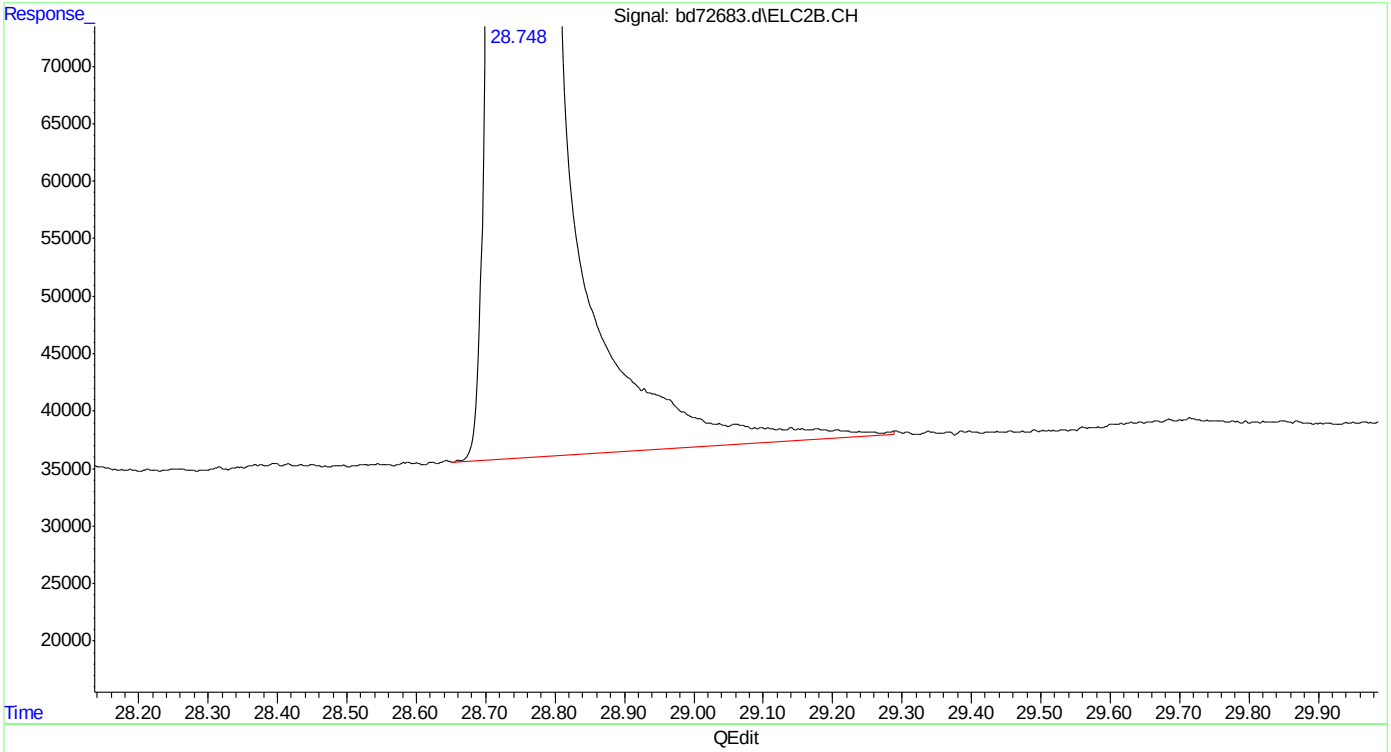
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.748min 152.947 ppb m
response 41651706

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:47 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3572-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.425	34075445	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	21.237	26970091	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
25) s fluorobenzene #2	16.425	15383703	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	21.237	9070743	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	7.470	30143416	49.971	ppb	m
2) h rt7/10	9.920	34807733	50.015	ppb	m
3) mtbe	10.687	15460558	50.361	ppb	
4) h rt10/13	15.200	33383300	50.012	ppb	m
5) benzene	15.932	42982873	50.000	ppb	
8) toluene	20.221	42756685	50.000	ppb	
11) h rt20/25	22.840	38654222	50.046	ppb	m
13) ethylbenzene	23.172	42355999	50.000	ppb	
14) m,p-xylene	23.307	80812232	100.000	ppb	
15) o-xylene	24.029	43434654	50.000	ppb	
16) h decane	24.930	37965661	50.001	ppb	m
17) t 1,3,5-trimethylbenzene	25.270	45635368	50.000	ppb	
18) 1,2,4-trimethylbenzene	25.747	44319474	50.000	ppb	
19) h butylcyclohexane	25.908	41267880	49.988	ppb	m
20) naphthalene	28.750	27290467	49.961	ppb	m
23) mtbe #2	10.688	7963229	50.116	ppb	m
24) benzene #2	15.931	24111272	50.000	ppb	
26) toluene #2	20.221	22561776	50.000	ppb	
28) ethylbenzene #2	23.171	20325119	50.000	ppb	
29) m,p-xylene #2	23.307	49291829	100.000	ppb	
30) o-xylene #2	24.028	20846761	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	25.269	31712590	50.000	ppb	
32) 1,2,4-trimethylbenzen...	25.746	23925194	50.000	ppb	
33) naphthalene #2	28.749	19084412	50.008	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	23927237	49.996	ppb	m

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

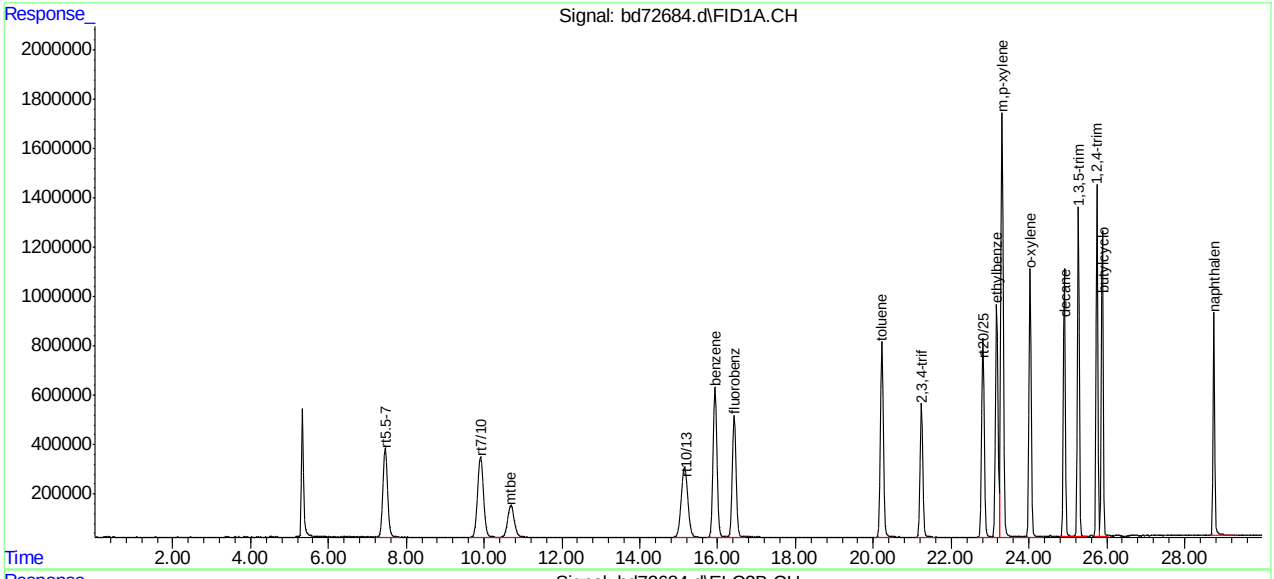
SGS ACCUTEST MC45969

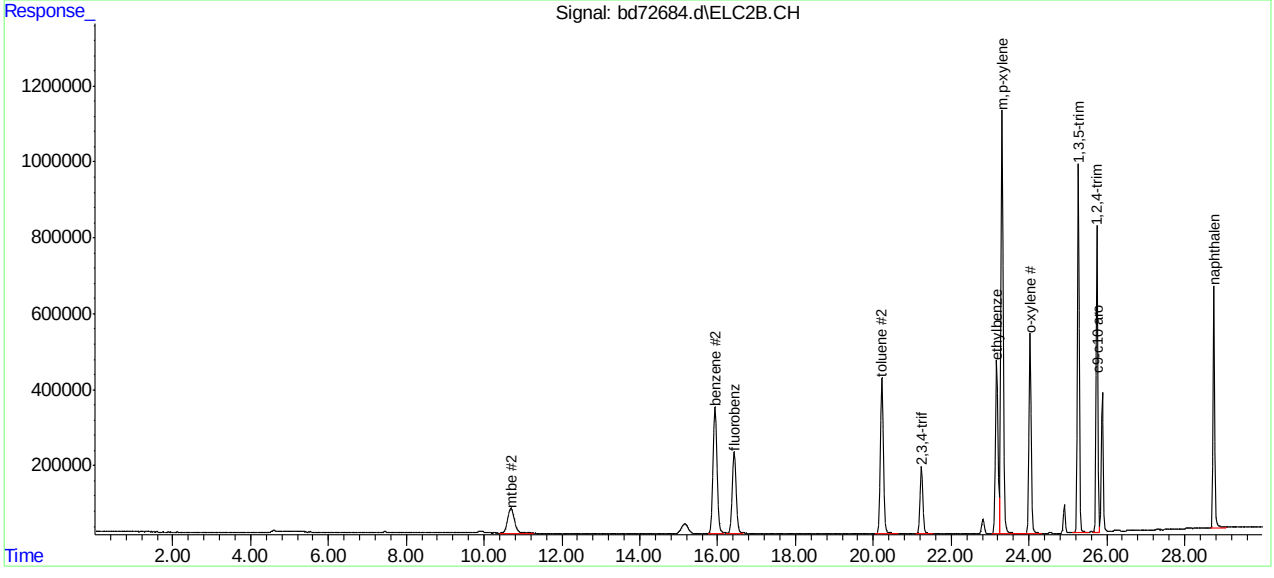
Quantitation Report (QT Reviewed)

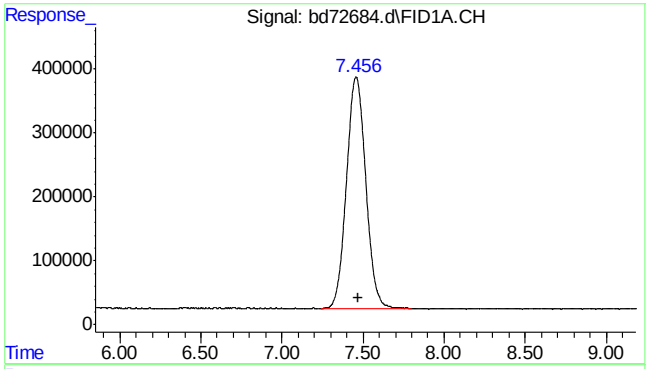
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3572-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

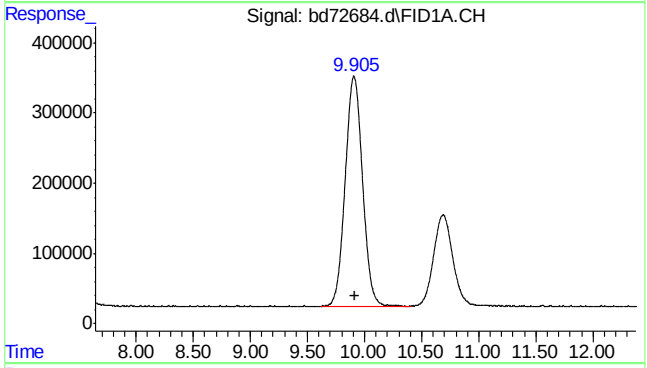






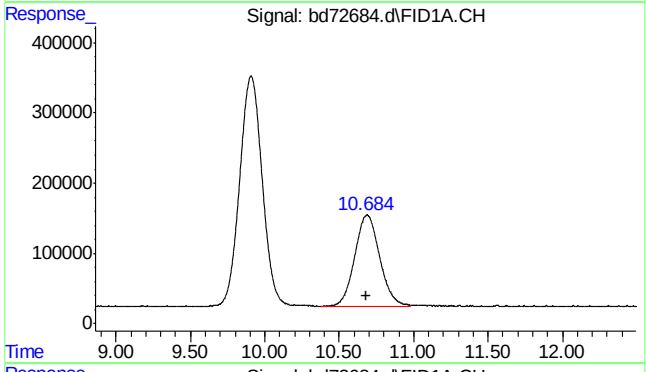
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 30143416
Conc: 49.97 ppb m



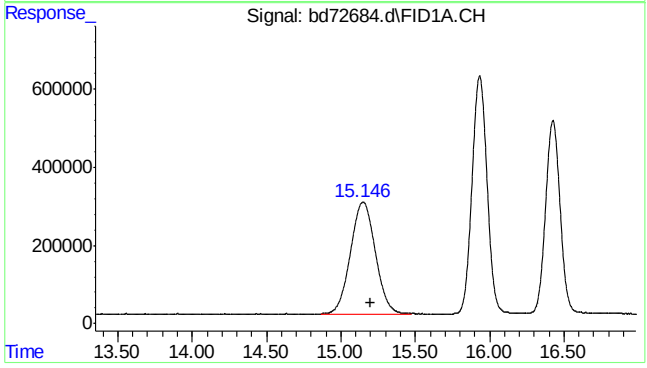
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 34807733
Conc: 50.01 ppb m



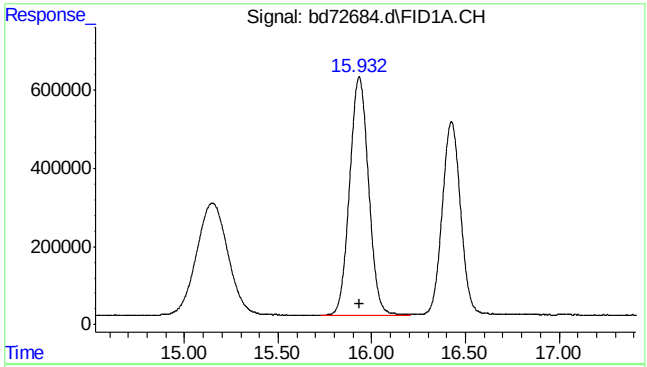
#3 mtbe

R.T.: 10.687 min
Delta R.T.: 0.003 min
Response: 15460558
Conc: 50.36 ppb



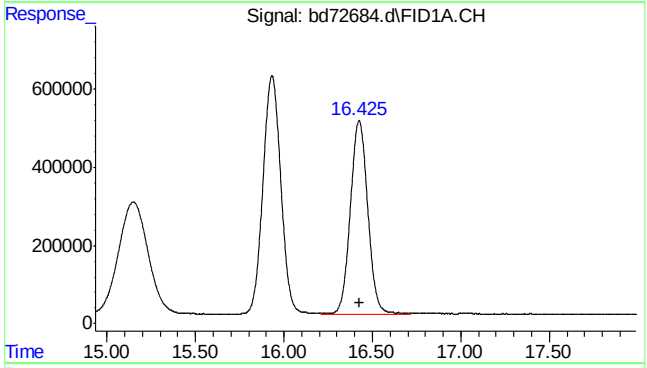
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 33383300
Conc: 50.01 ppb m



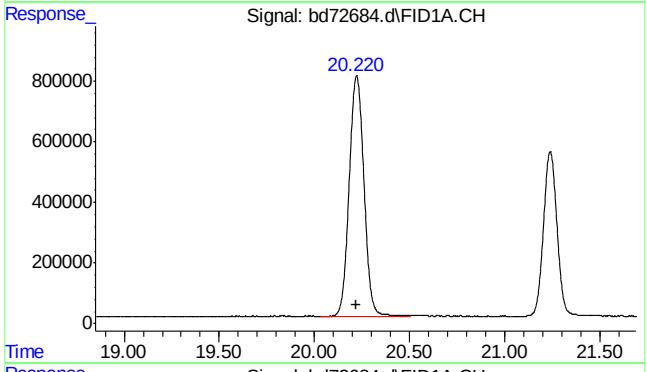
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 42982873
Conc: 50.00 ppb



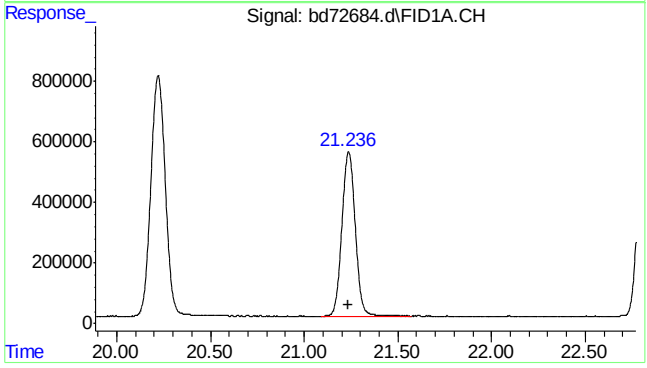
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 34075445
Conc: 50.00 ppb



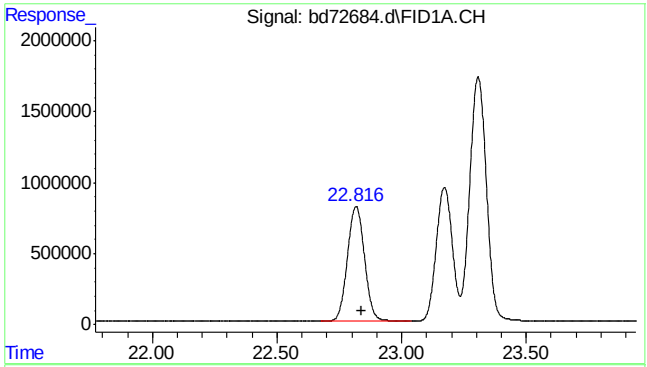
#8 toluene

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 42756685
Conc: 50.00 ppb



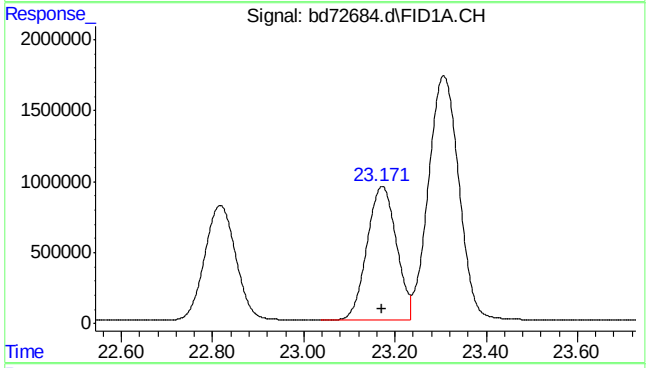
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 26970091
Conc: 50.00 ppb



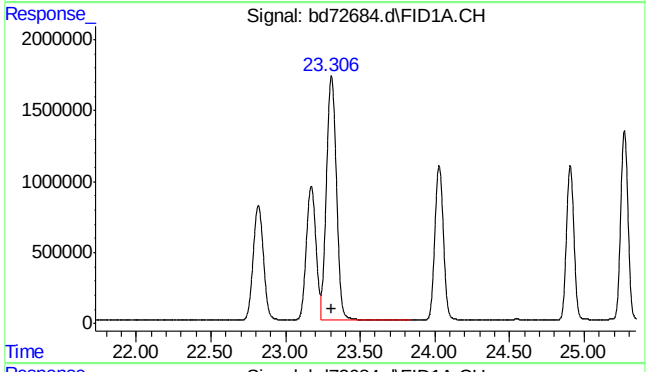
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38654222
Conc: 50.05 ppb m



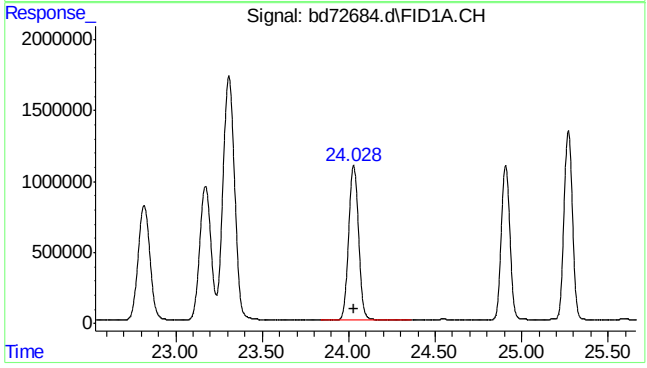
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 42355999
Conc: 50.00 ppb



#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 80812232
Conc: 100.00 ppb



#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 43434654
Conc: 50.00 ppb

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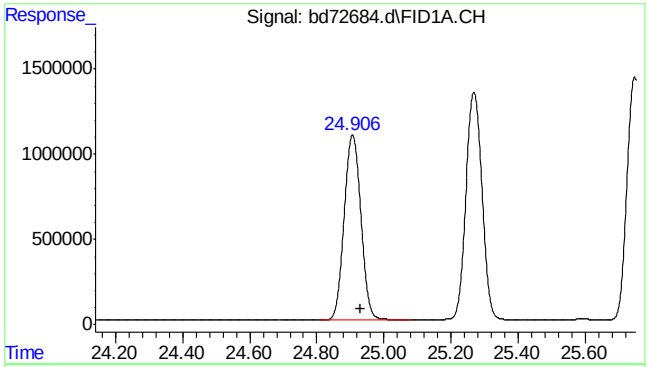
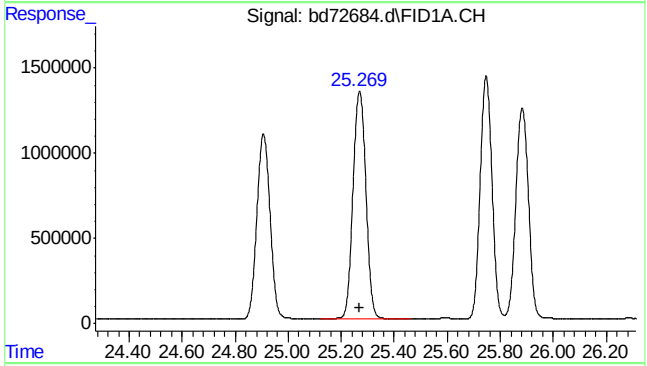


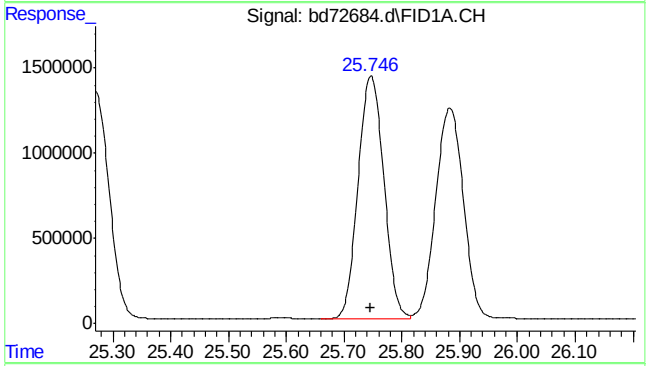
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37965661
Conc: 50.00 ppb m



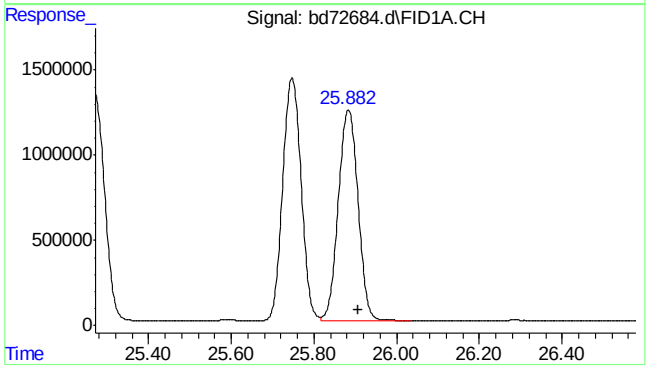
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 45635368
Conc: 50.00 ppb



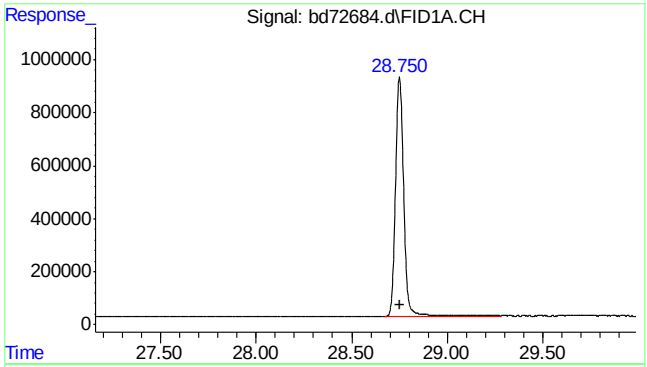
#18 1,2,4-trimethylbenzene

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 44319474
Conc: 50.00 ppb



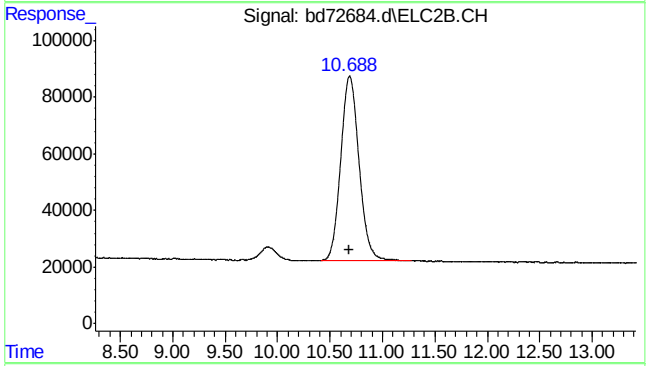
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41267880
Conc: 49.99 ppb m



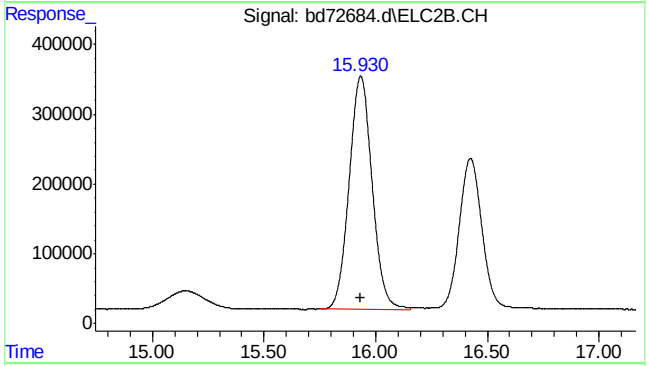
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 27290467
Conc: 49.96 ppb m



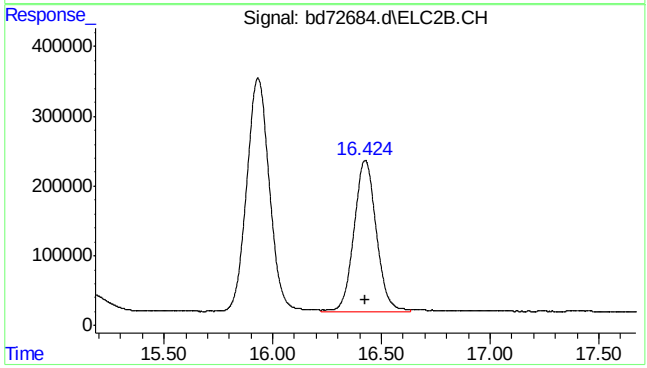
#23 mtbe #2

R.T.: 10.688 min
Delta R.T.: 0.000 min
Response: 7963229
Conc: 50.12 ppb m



#24 benzene #2

R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 24111272
Conc: 50.00 ppb



#25 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 15383703
Conc: 50.00 ppb

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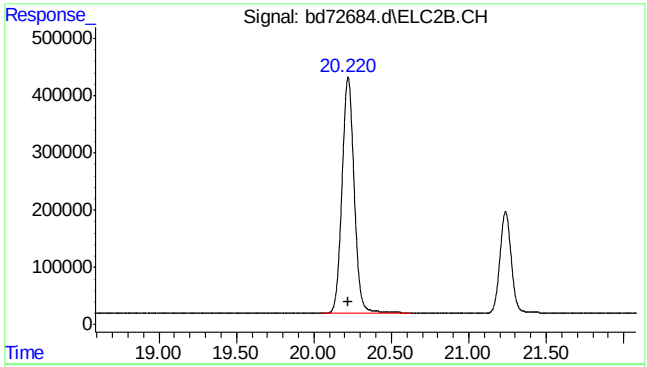
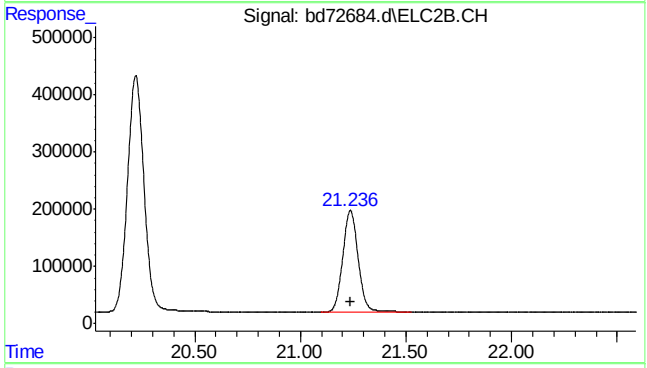


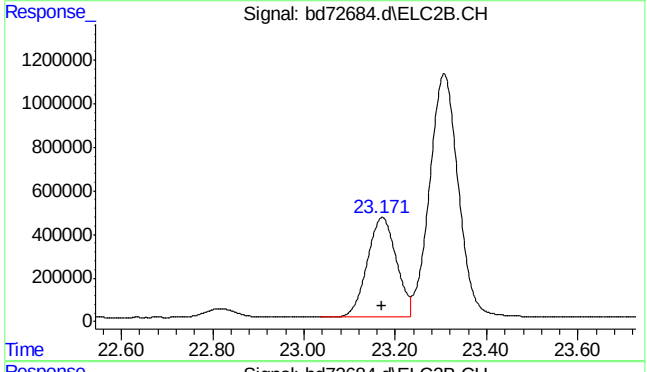
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 22561776
Conc: 50.00 ppb



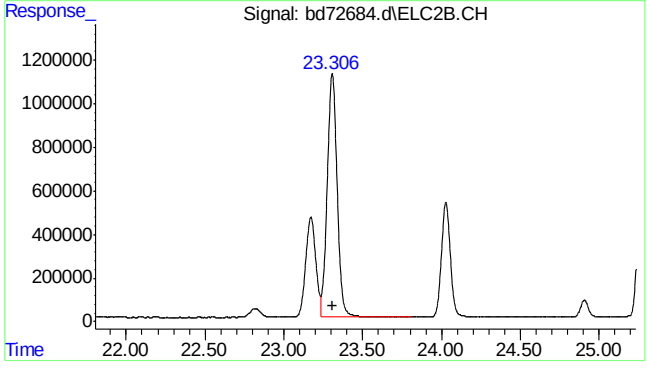
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 9070743
Conc: 50.00 ppb



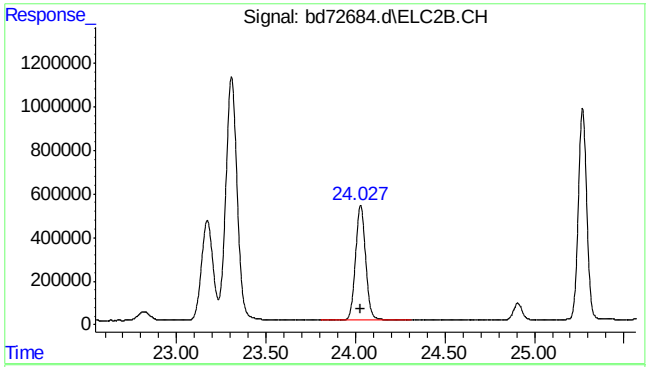
#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 20325119
Conc: 50.00 ppb



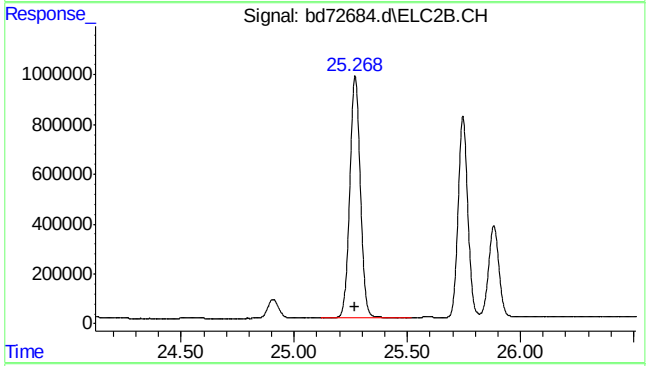
#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 49291829
Conc: 100.00 ppb



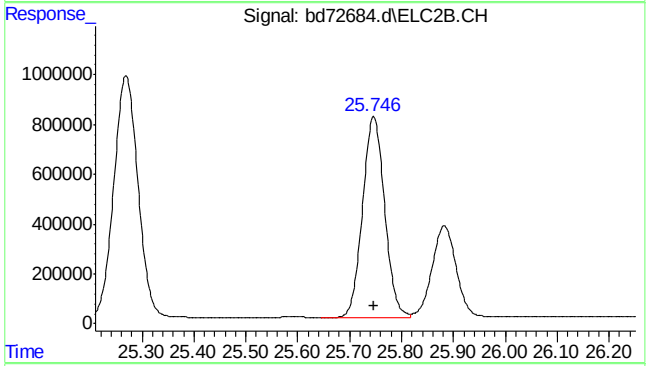
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 20846761
Conc: 50.00 ppb



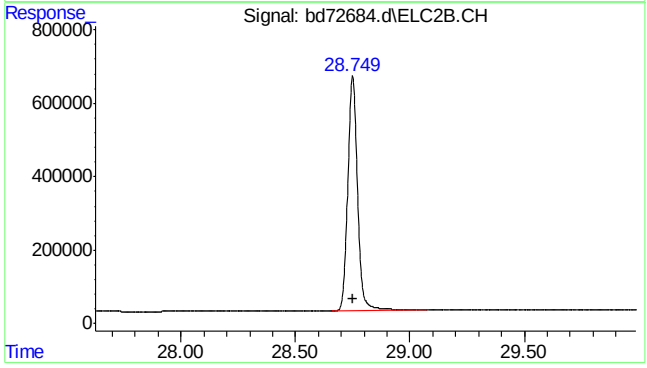
#31 1,3,5-trimethylbenzene #2

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 31712590
Conc: 50.00 ppb



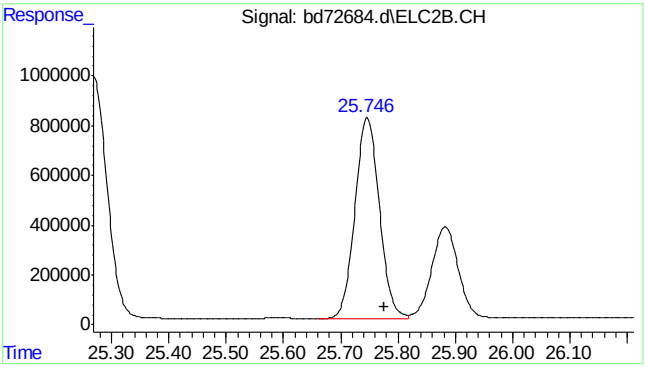
#32 1,2,4-trimethylbenzene #2

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 23925194
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: 0.000 min
Response: 19084412
Conc: 50.01 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 23927237
Conc: 50.00 ppb m

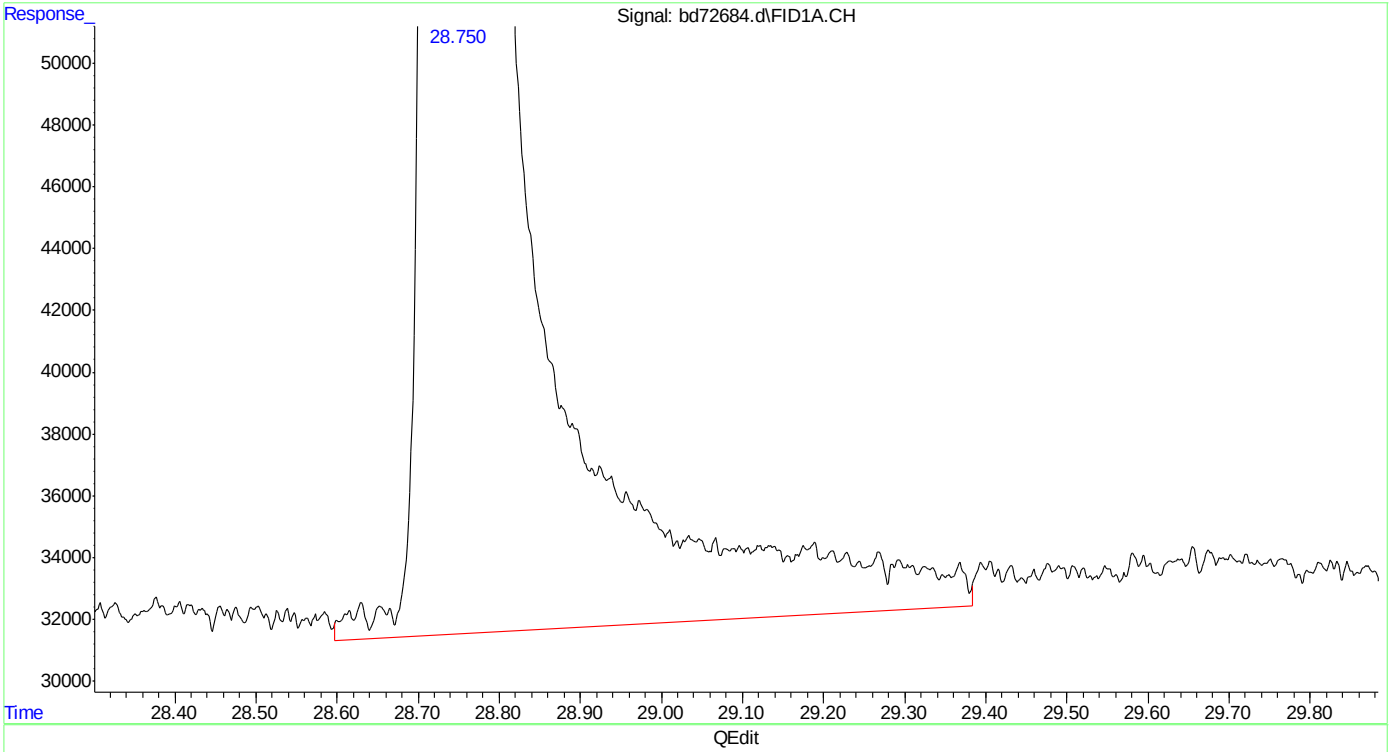
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.750min 50.560 ppb
response 27617814

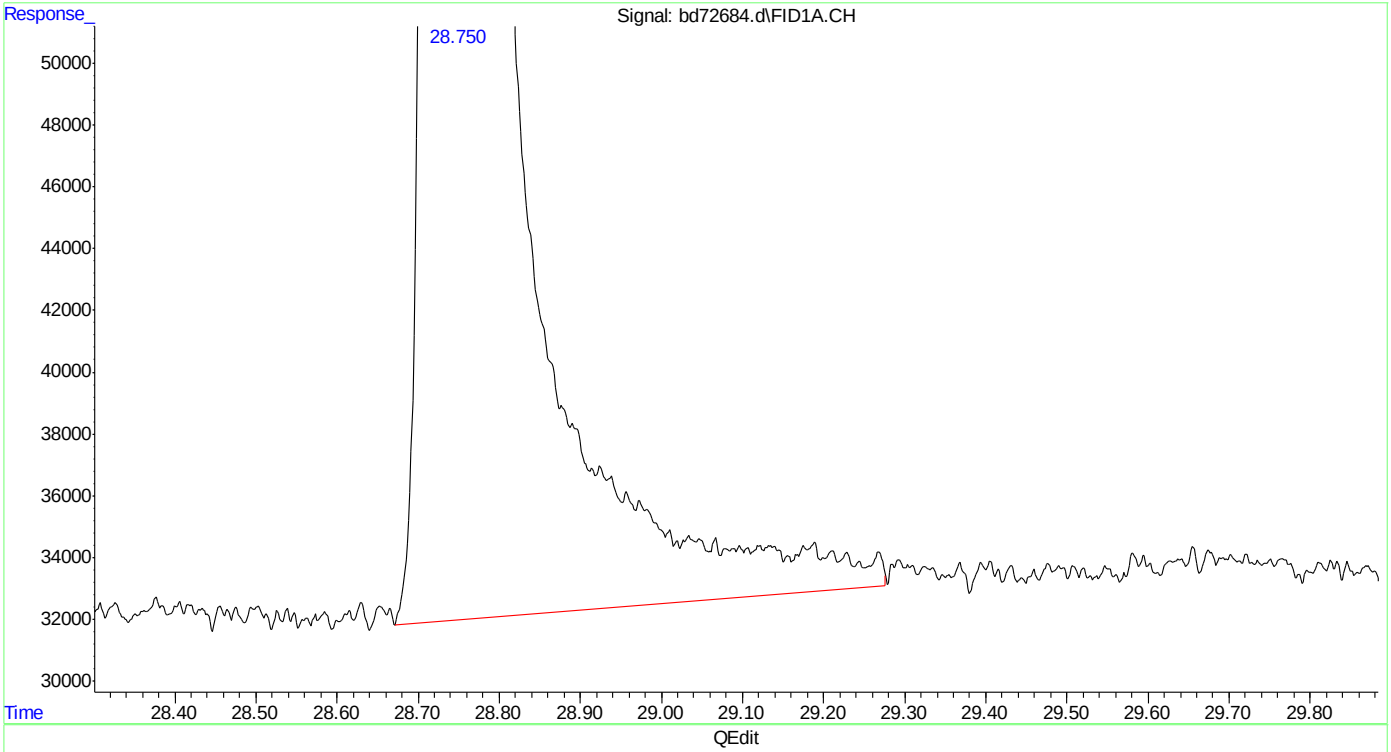
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.750min 49.961 ppb m
response 27290467

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 10:43:47 2016

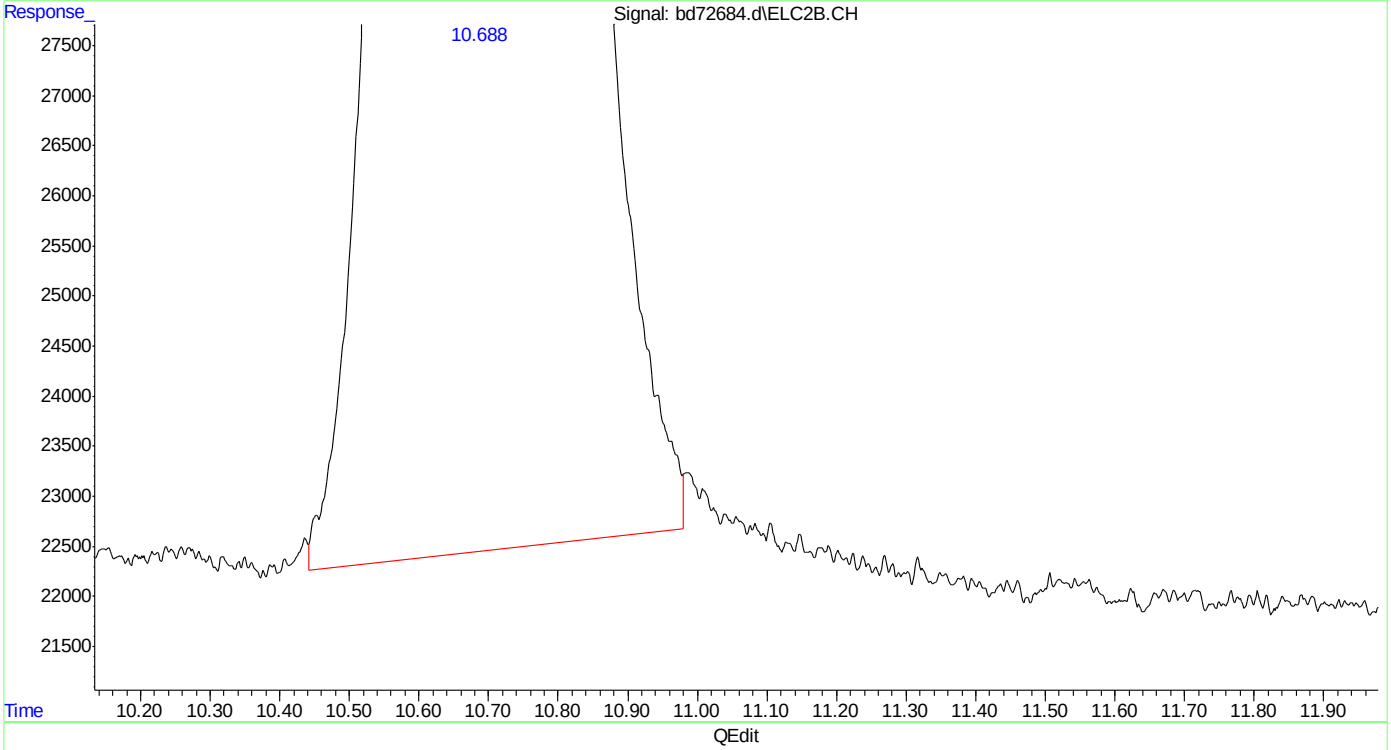
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.688min 49.028 ppb
response 7790275

(+) = Expected Retention Time

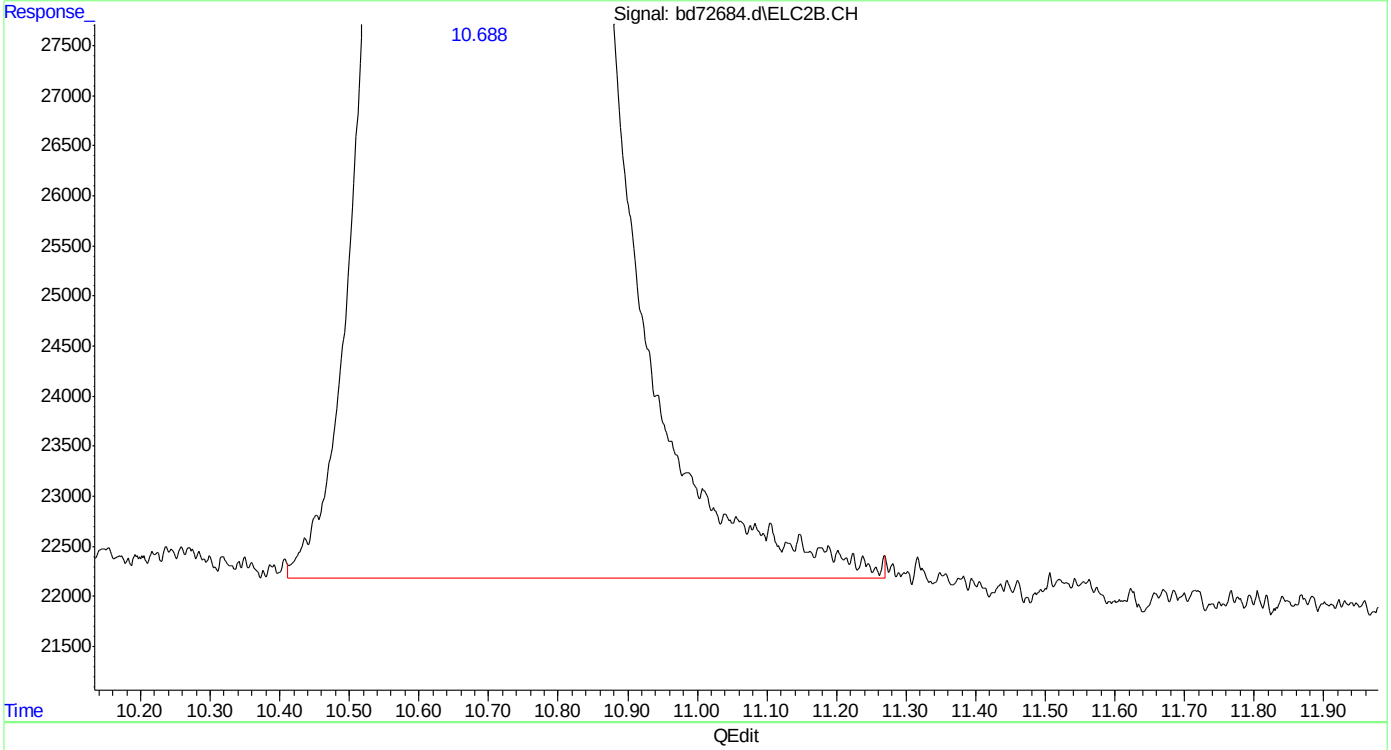
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.688min 50.116 ppb m
response 7963229

(+) = Expected Retention Time

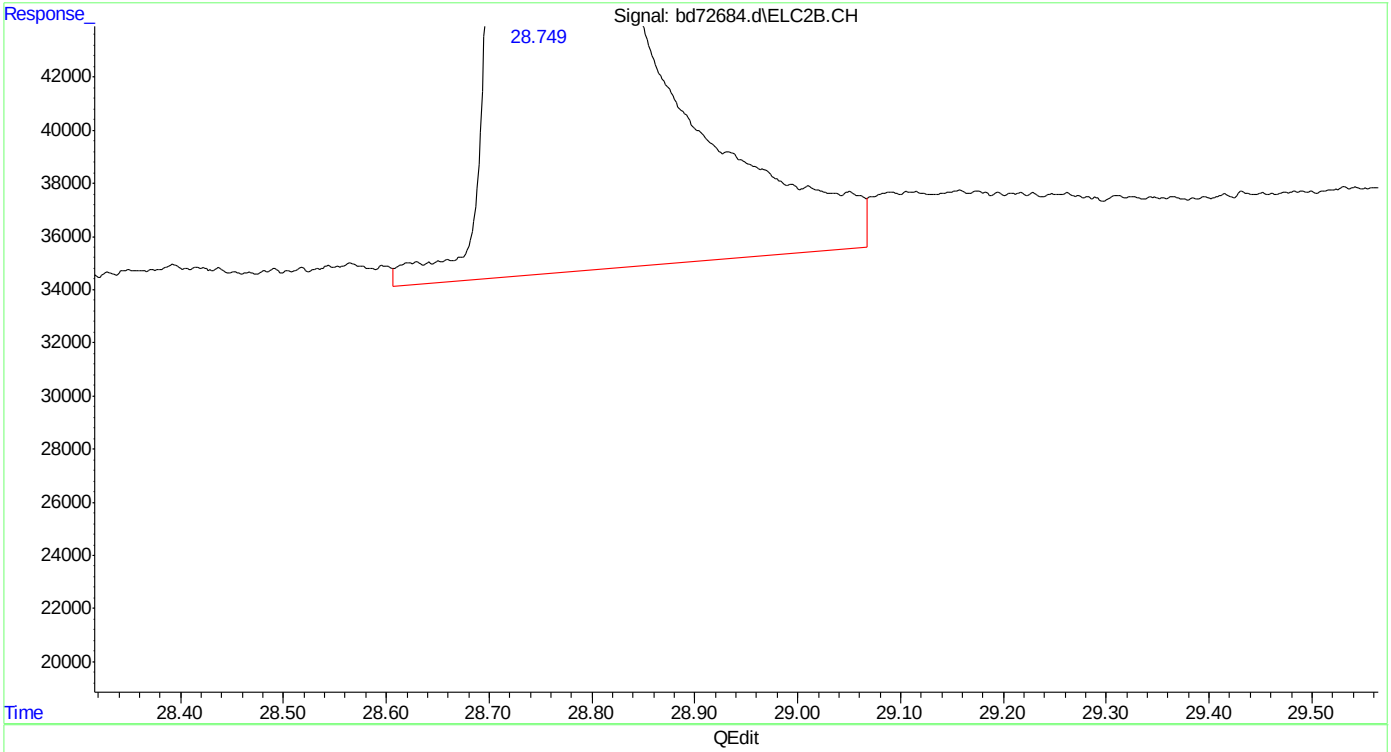
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.750min 50.594 ppb
response 19307823

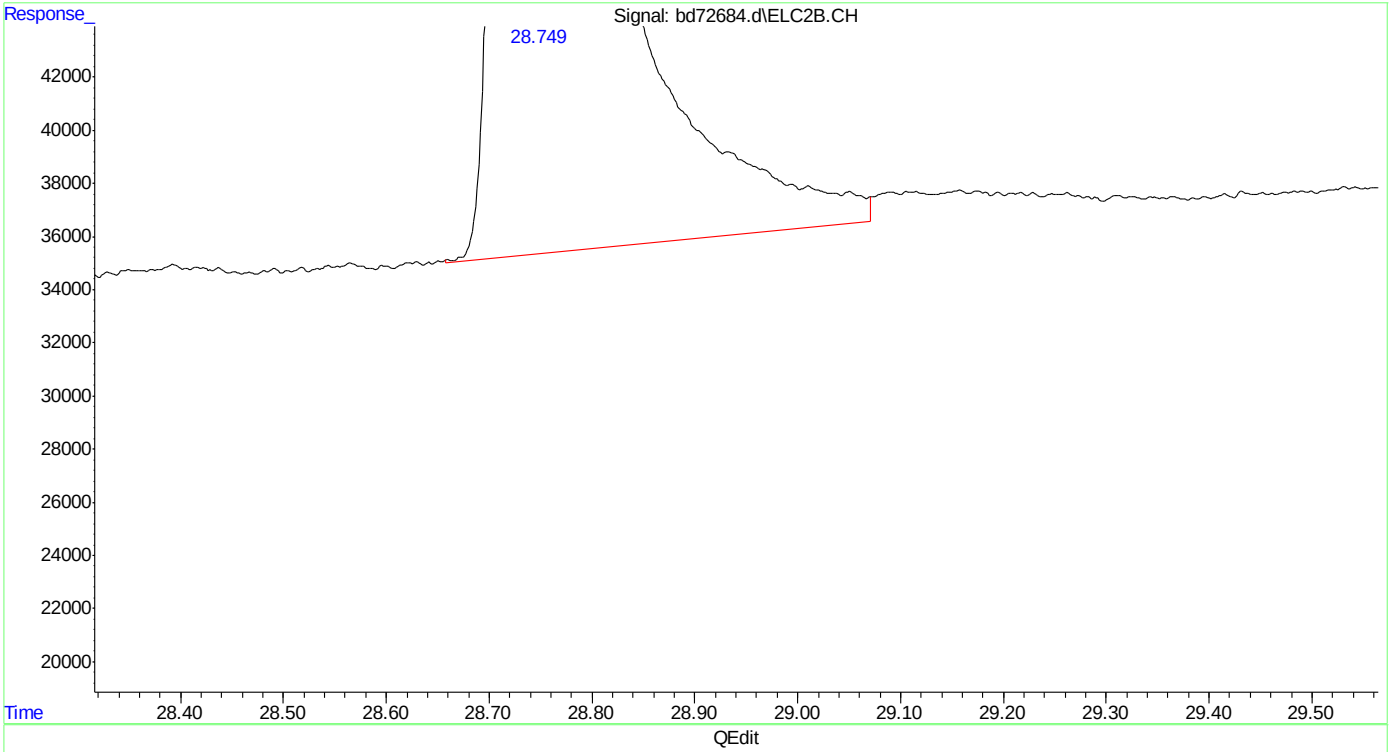
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.749min 50.008 ppb m
response 19084412

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 10:44:17 2016 Page: 1

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3572-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.424	7790076	10.604 ppb	m
Spiked Amount 50.000		Recovery =	21.21%	
9) s 2,3,4-trifluorotoluene	21.237	5892388	10.383 ppb	m
Spiked Amount 50.000		Recovery =	20.77%	
25) s fluorobenzene #2	16.424	3885600	10.970 ppb	m
Spiked Amount 50.000		Recovery =	21.94%	
27) s 2,3,4-trifluorotoluen...	21.237	2170174	10.531 ppb	m
Spiked Amount 50.000		Recovery =	21.06%	
Target Compounds				
1) h rt5.5-7	7.470	5478380	9.673 ppb	m
2) h rt7/10	9.920	6151519	9.578 ppb	m
3) mtbe	10.683	2869302	9.915 ppb	m
4) h rt10/13	15.200	7560791	10.267 ppb	m
5) benzene	15.934	7526601	9.594 ppb	m
8) toluene	20.220	7478514	9.601 ppb	m
11) h rt20/25	22.840	8045975	9.978 ppb	m
13) ethylbenzene	23.172	7648937	9.735 ppb	
14) m,p-xylene	23.307	16659616	20.368 ppb	
15) o-xylene	24.029	8134654	9.865 ppb	
16) h decane	24.930	8489226	9.899 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	9966676	10.402 ppb	
18) 1,2,4-trimethylbenzene	25.747	8741165	10.031 ppb	
19) h butylcyclohexane	25.908	9260257	10.094 ppb	m
20) naphthalene	28.751	4112144	9.611 ppb	
23) mtbe #2	10.696	1570260	10.071 ppb	m
24) benzene #2	15.932	4569131	9.758 ppb	
26) toluene #2	20.221	4236945	9.801 ppb	m
28) ethylbenzene #2	23.172	3840788	9.811 ppb	
29) m,p-xylene #2	23.307	9363713	19.635 ppb	
30) o-xylene #2	24.028	4014129	9.824 ppb	
31) t 1,3,5-trimethylbenzen...	25.268	6605929	10.076 ppb	m
32) 1,2,4-trimethylbenzen...	25.746	4478298	9.727 ppb	m
33) naphthalene #2	28.750	2921622	9.536 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	4489691	9.785 ppb	m

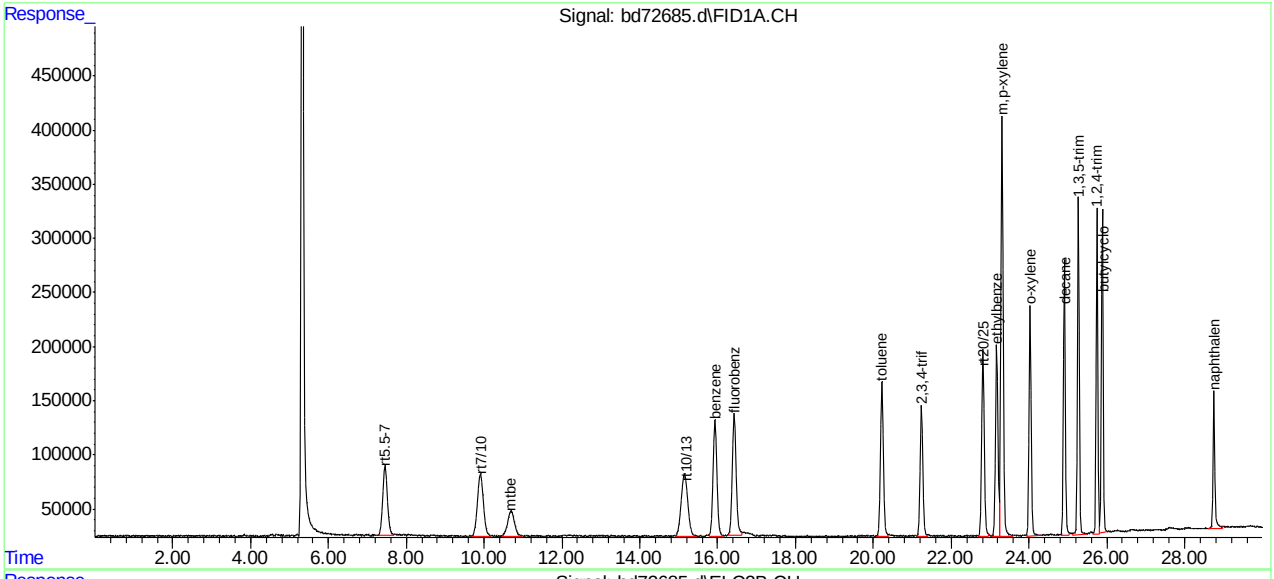
(f)=RT Delta > 1/2 Window (m)=manual int.

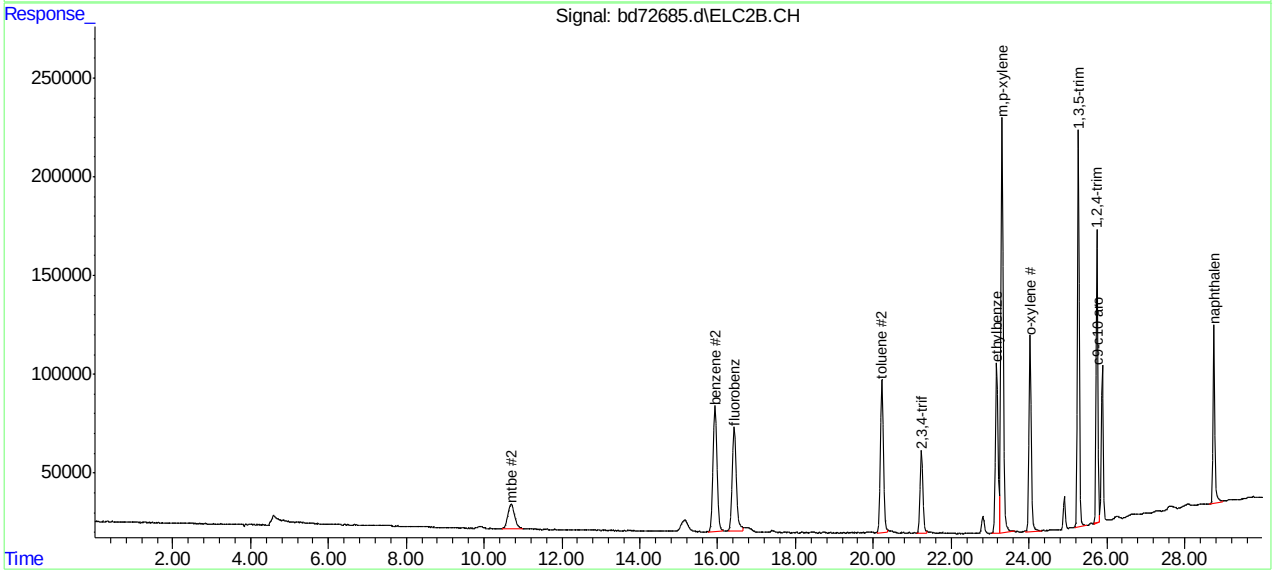
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3572-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

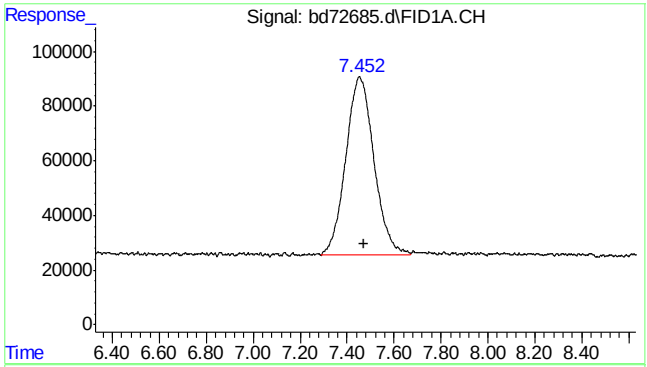
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



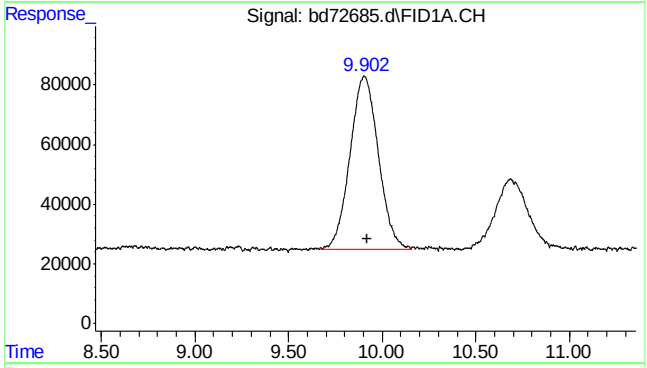


SGS ACCUTEST MC45969



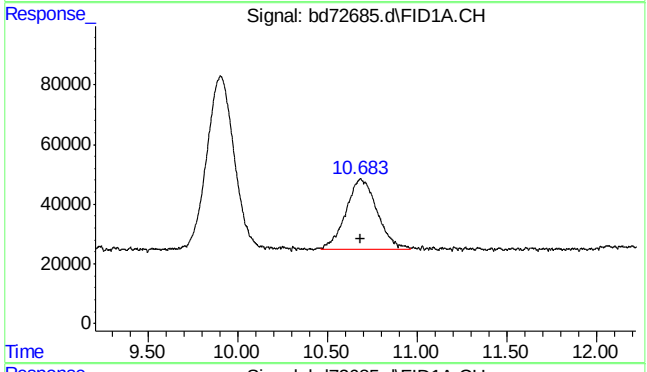
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 5478380
Conc: 9.67 ppb m



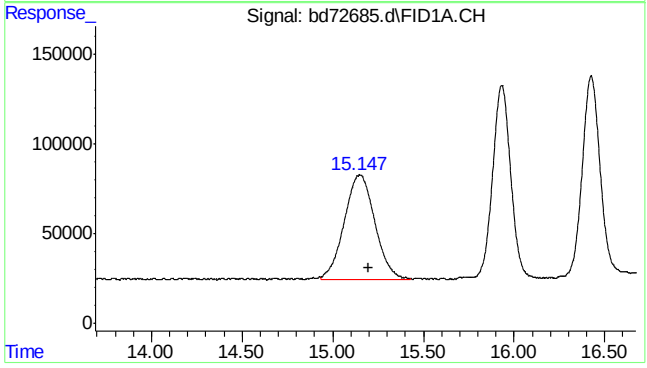
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 6151519
Conc: 9.58 ppb m



#3 mtbe

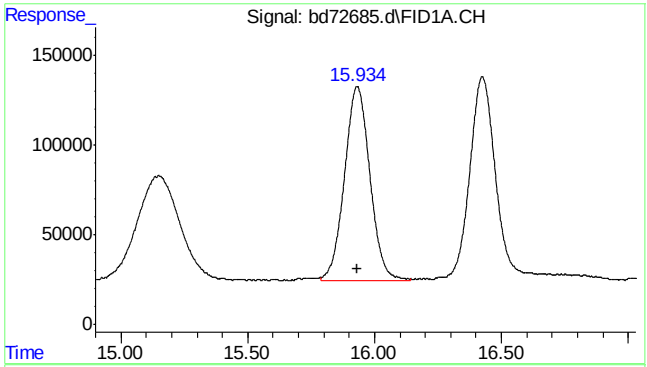
R.T.: 10.683 min
Delta R.T.: 0.000 min
Response: 2869302
Conc: 9.92 ppb m



#4 rt10/13

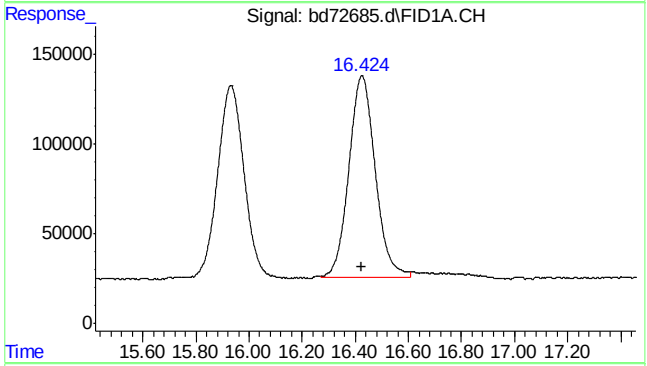
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 7560791
Conc: 10.27 ppb m

SGS ACCUTEST MC45969



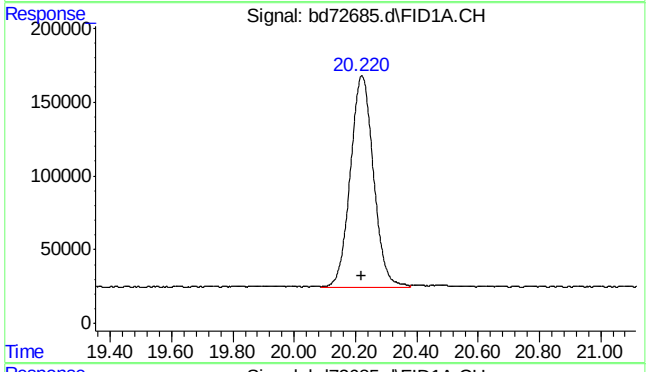
#5 benzene

R.T.: 15.934 min
Delta R.T.: 0.001 min
Response: 7526601
Conc: 9.59 ppb m



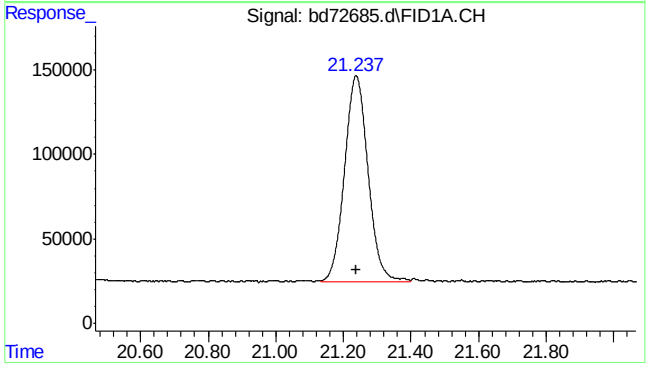
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 7790076
Conc: 10.60 ppb m



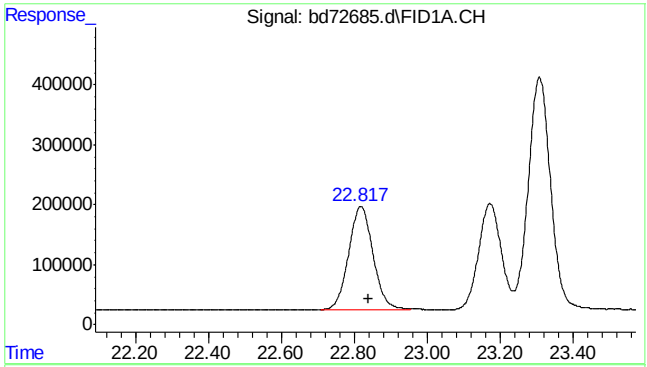
#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 7478514
Conc: 9.60 ppb m



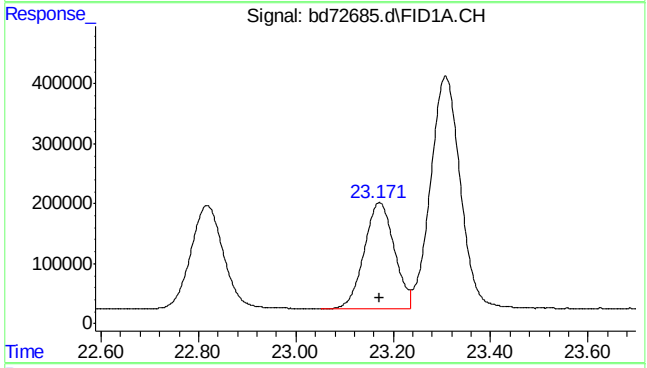
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 5892388
Conc: 10.38 ppb m



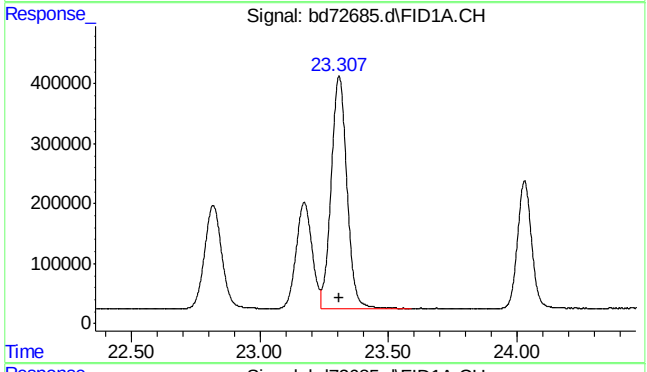
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 8045975
Conc: 9.98 ppb m



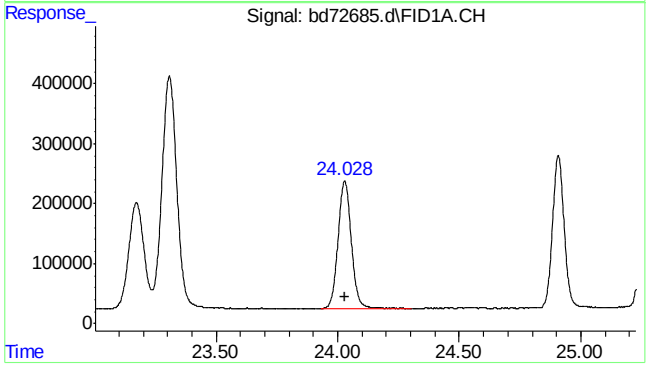
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 7648937
Conc: 9.73 ppb



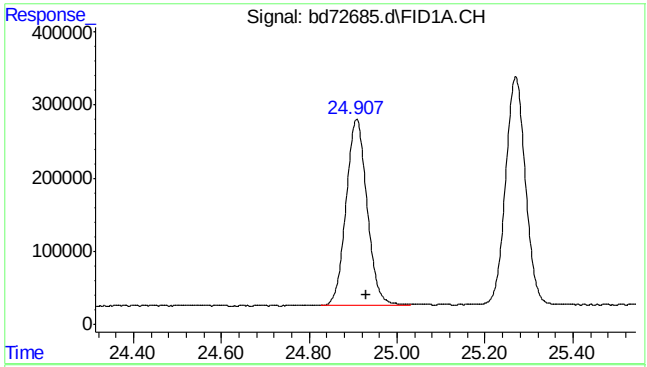
#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 16659616
Conc: 20.37 ppb



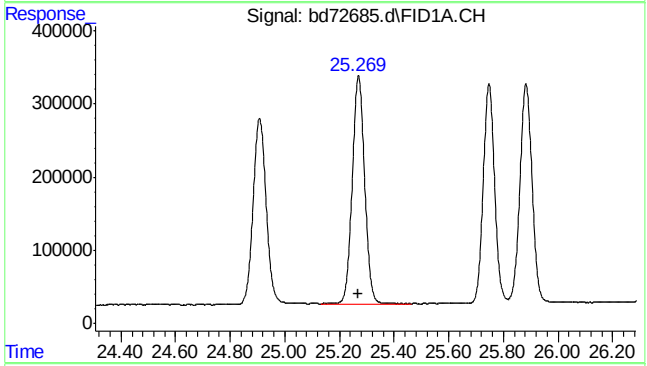
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 8134654
Conc: 9.86 ppb



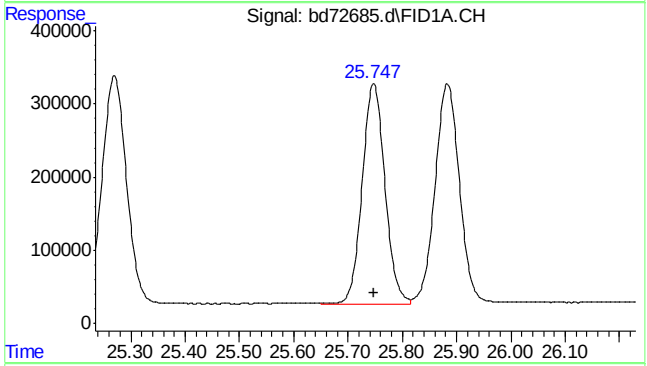
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 8489226
Conc: 9.90 ppb m



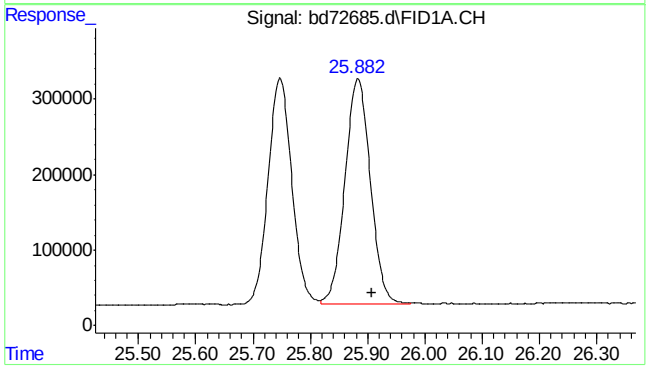
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 9966676
Conc: 10.40 ppb



#18 1,2,4-trimethylbenzene

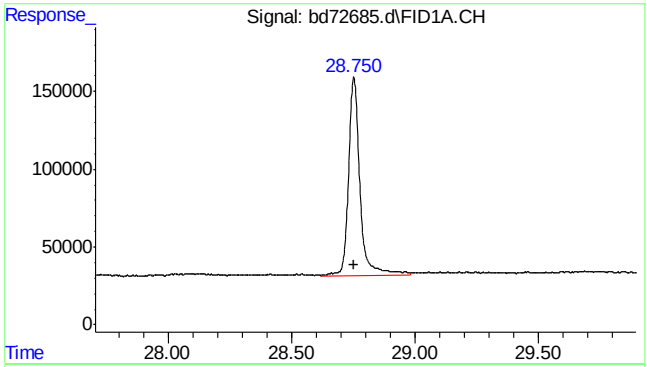
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 8741165
Conc: 10.03 ppb



#19 butylcyclohexane

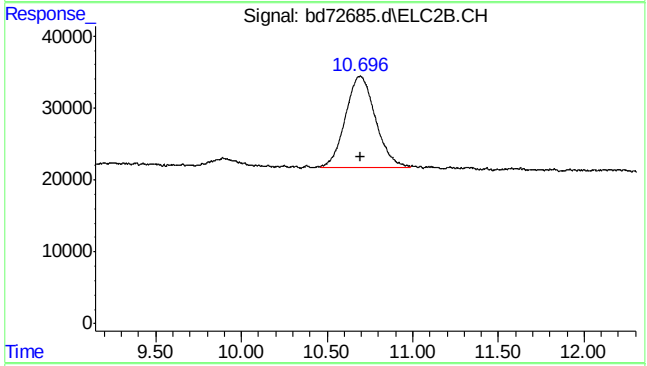
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 9260257
Conc: 10.09 ppb m

SGS ACCUTEST MC45969



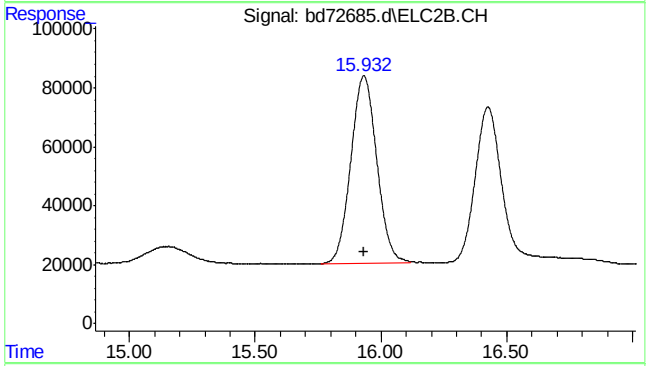
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 4112144
Conc: 9.61 ppb



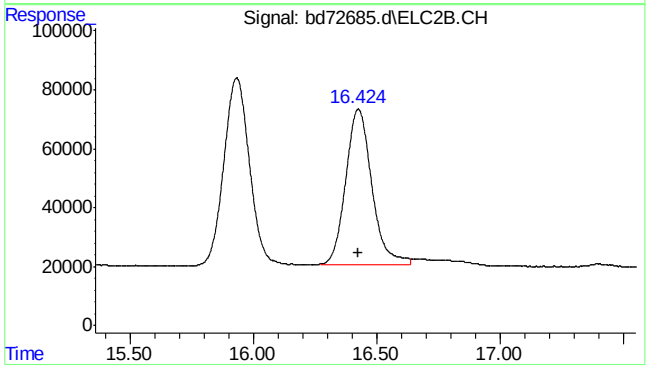
#23 mtbe #2

R.T.: 10.696 min
Delta R.T.: 0.000 min
Response: 1570260
Conc: 10.07 ppb m



#24 benzene #2

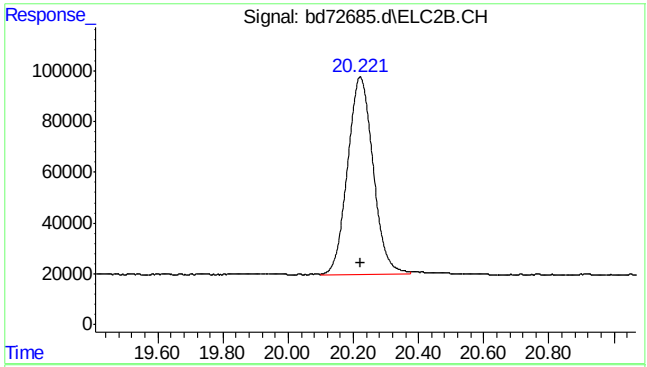
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 4569131
Conc: 9.76 ppb



#25 fluorobenzene #2

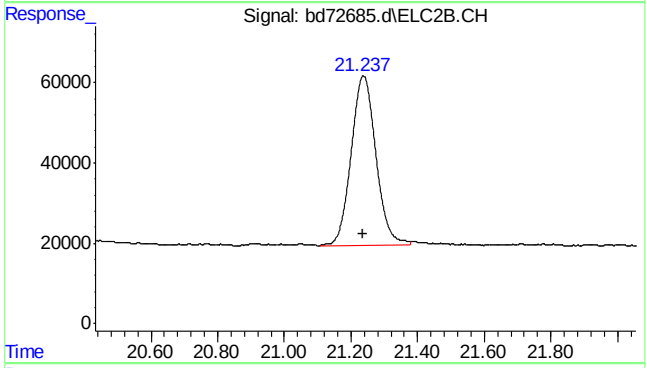
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 3885600
Conc: 10.97 ppb m

SGS ACCUTEST MC45969



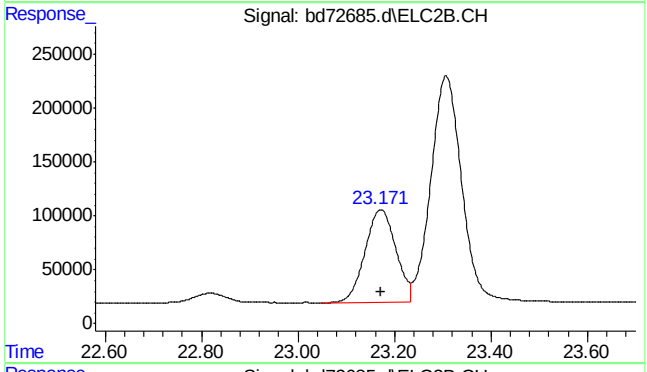
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 4236945
Conc: 9.80 ppb m



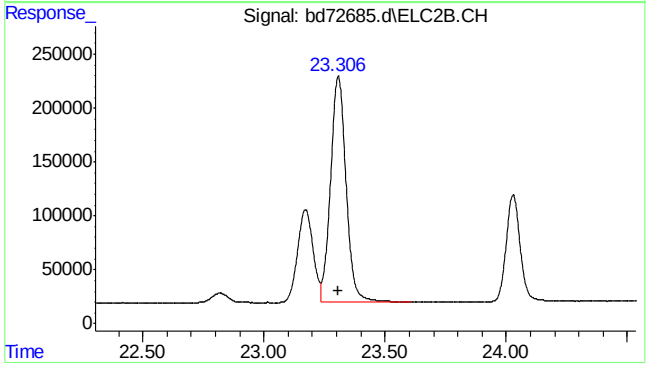
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2170174
Conc: 10.53 ppb m



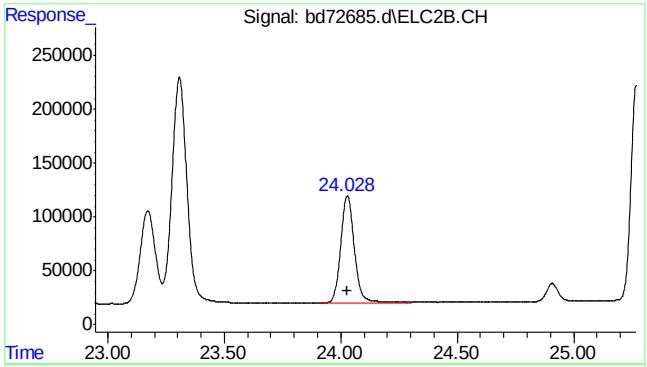
#28 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3840788
Conc: 9.81 ppb



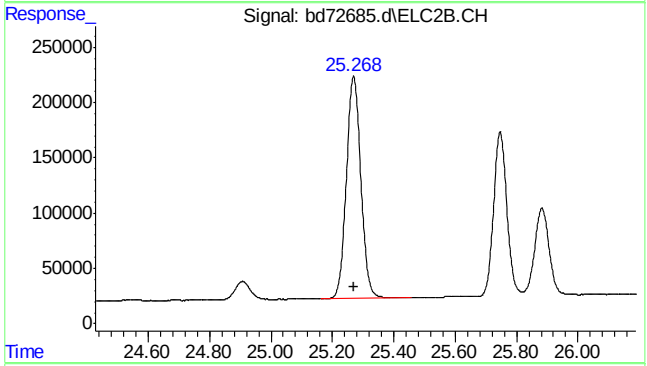
#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 9363713
Conc: 19.64 ppb



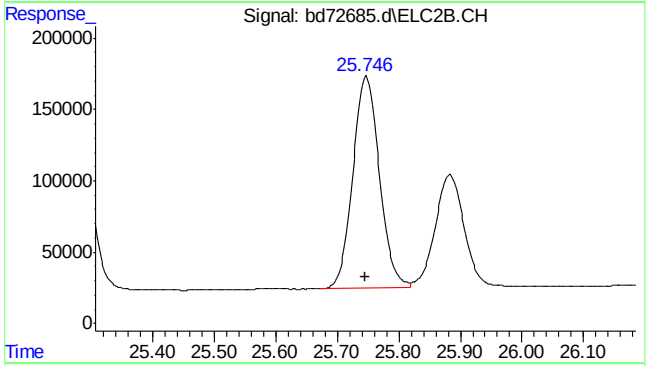
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 4014129
Conc: 9.82 ppb



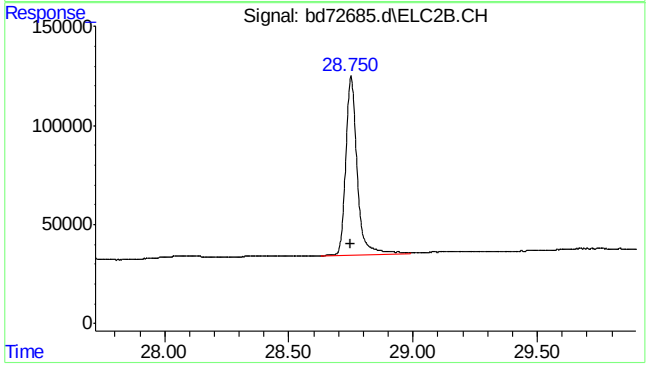
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 6605929
Conc: 10.08 ppb m



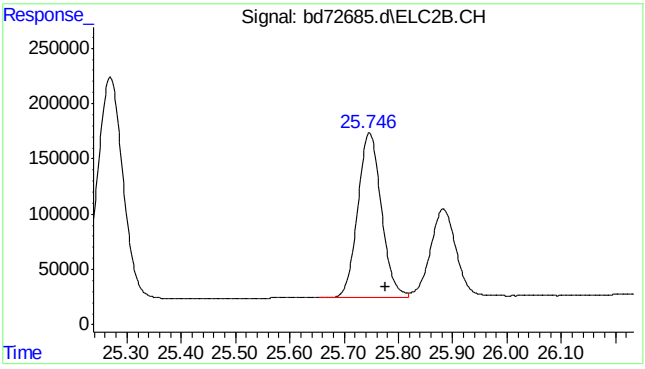
#32 1,2,4-trimethylbenzene #2

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 4478298
Conc: 9.73 ppb m



#33 naphthalene #2

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 2921622
Conc: 9.54 ppb m



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	4489691
Conc:	9.79 ppb m

7.5.6

7

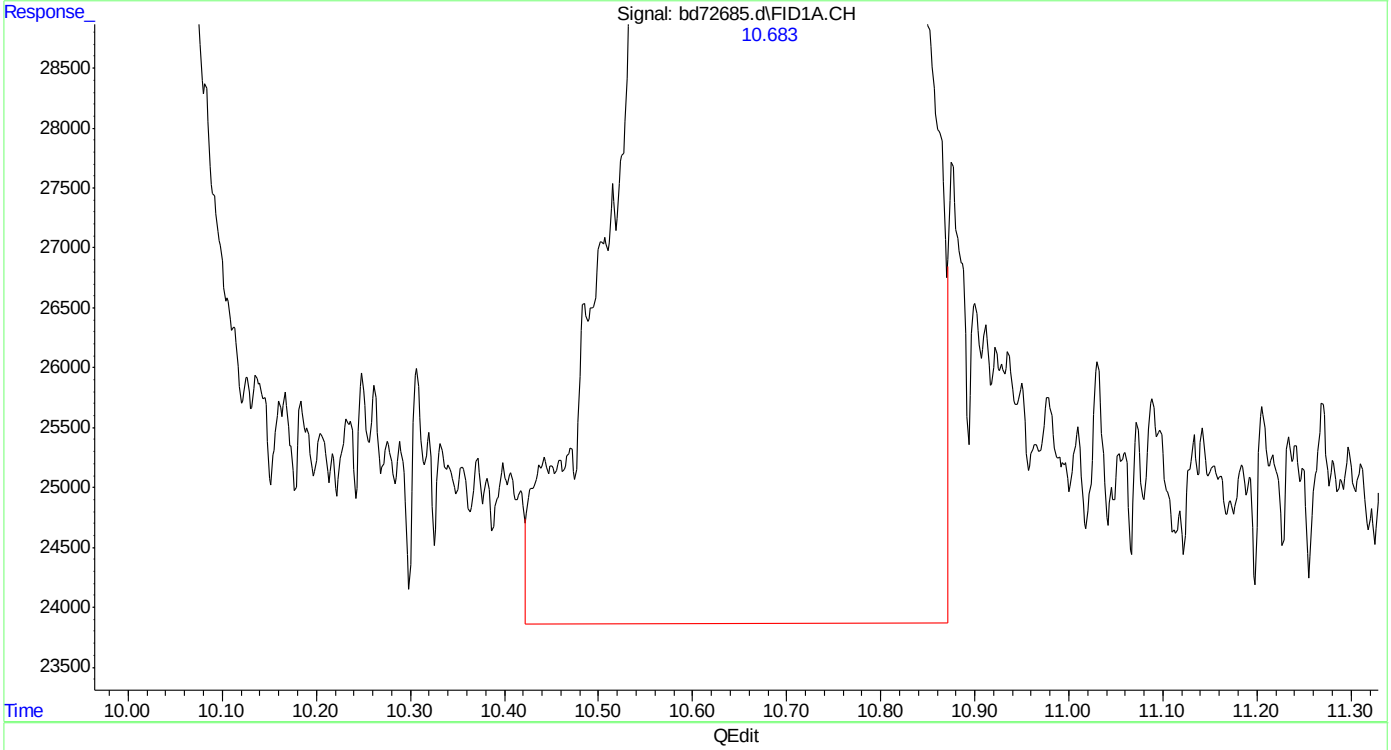
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
10.685min 9.932 ppb
response 3071017

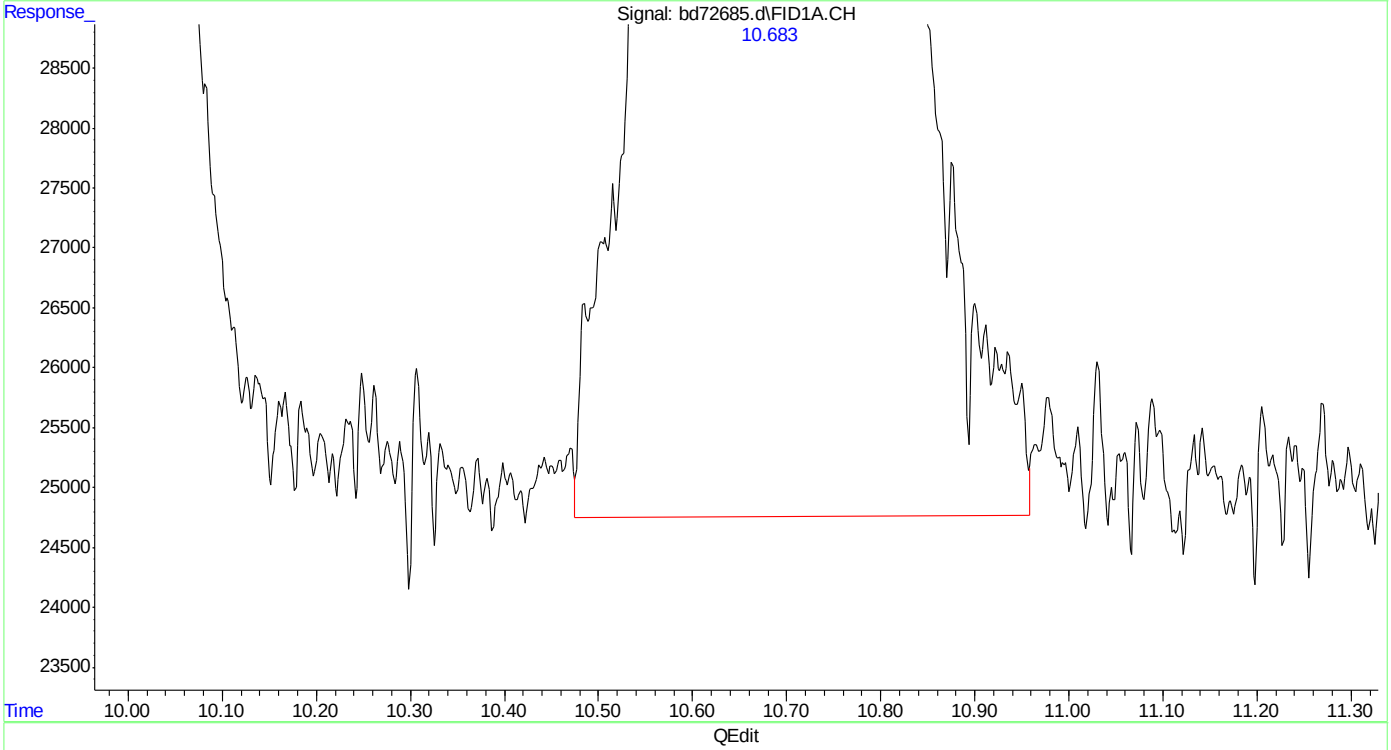
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
10.683min 9.362 ppb m
response 2894827

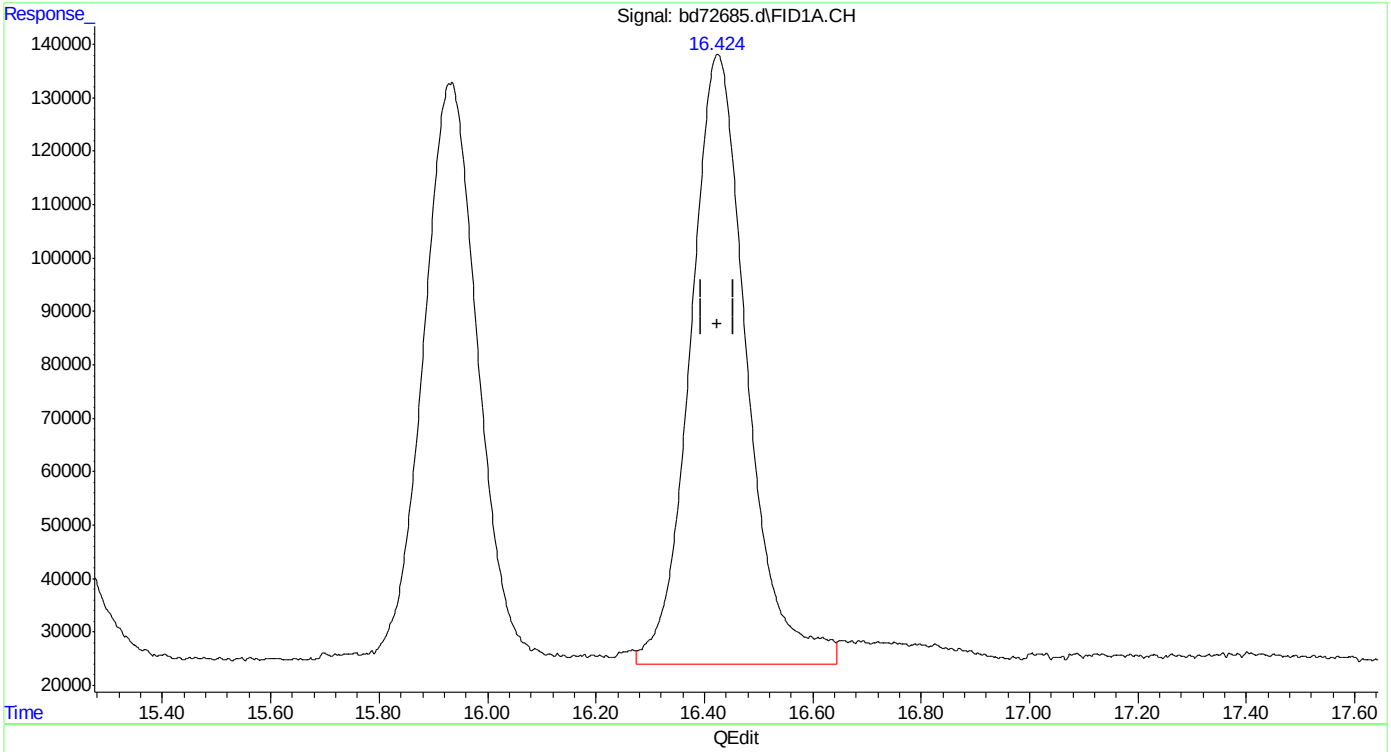
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.425min 12.087 ppb
response 8237267

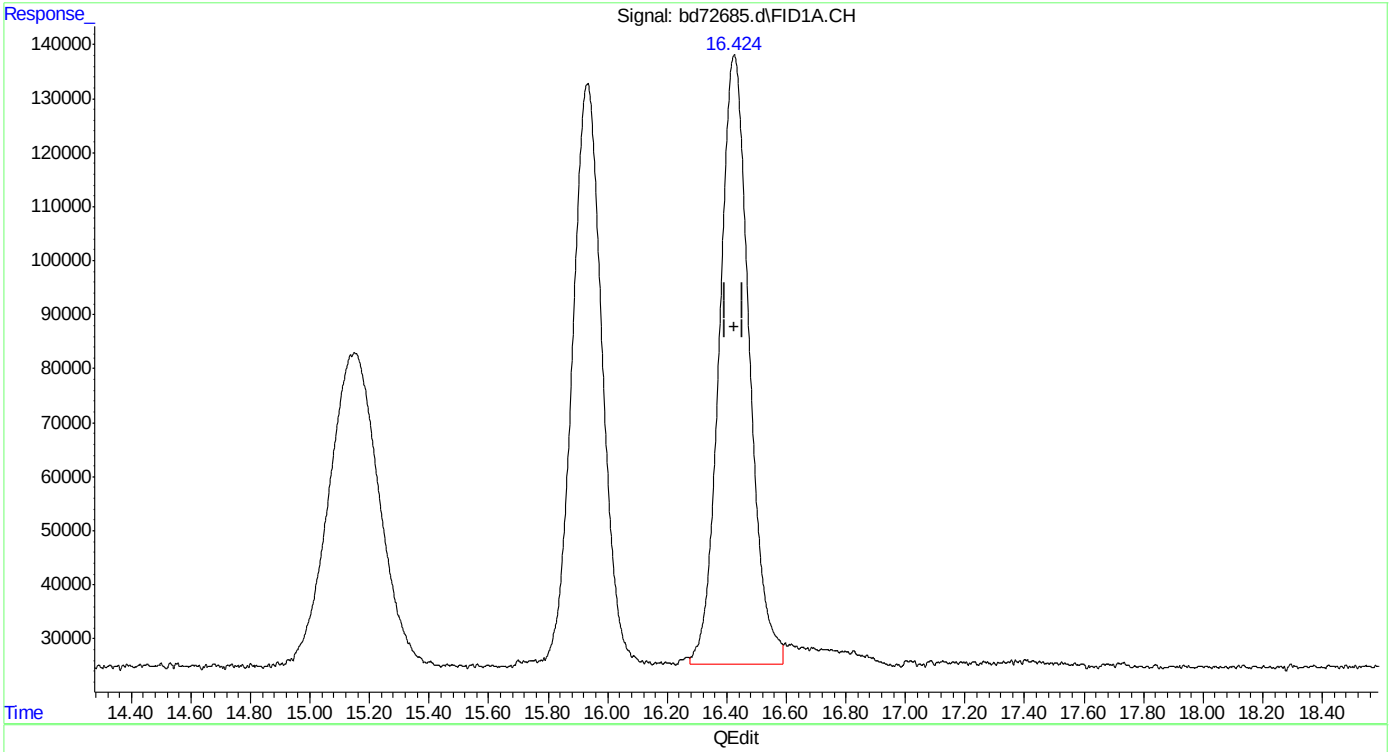
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.424min 11.475 ppb m
response 7820563

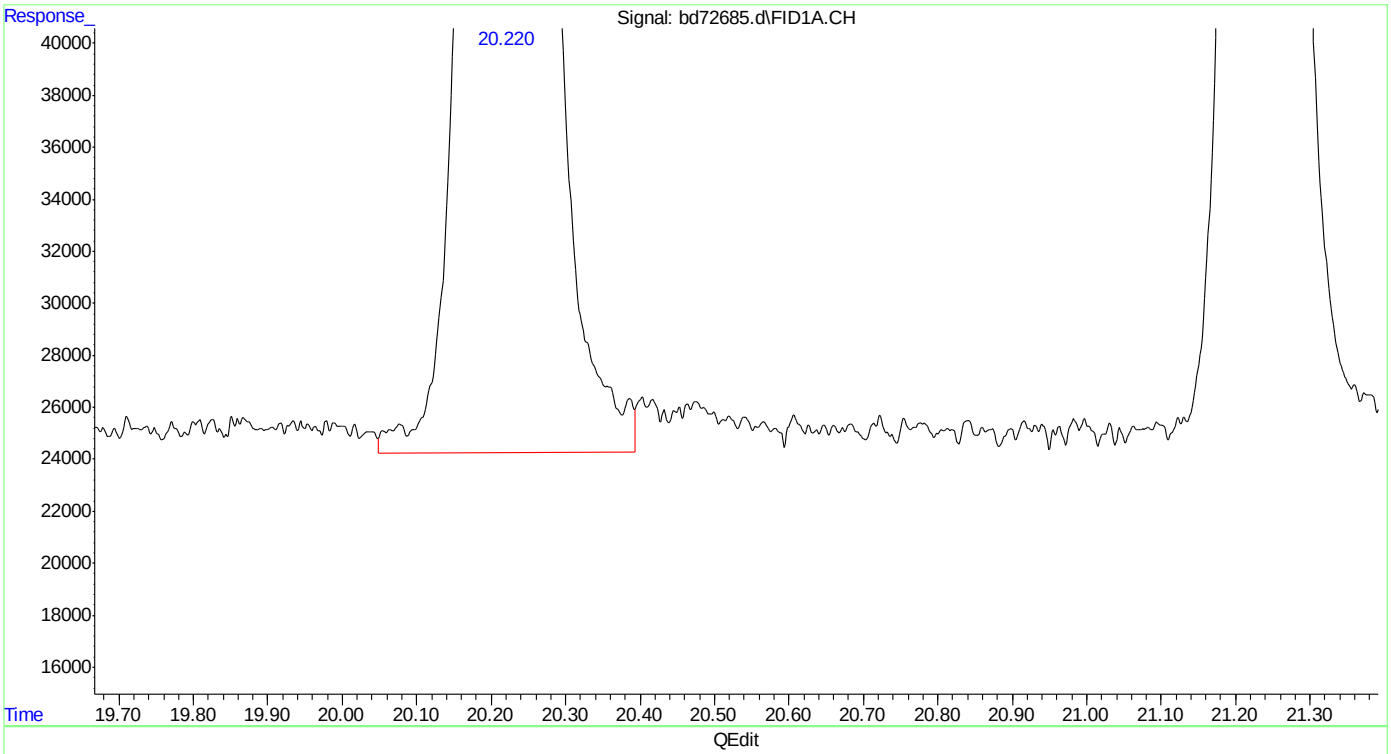
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:09 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
20.221min 8.899 ppb
response 7610241

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:16 2016

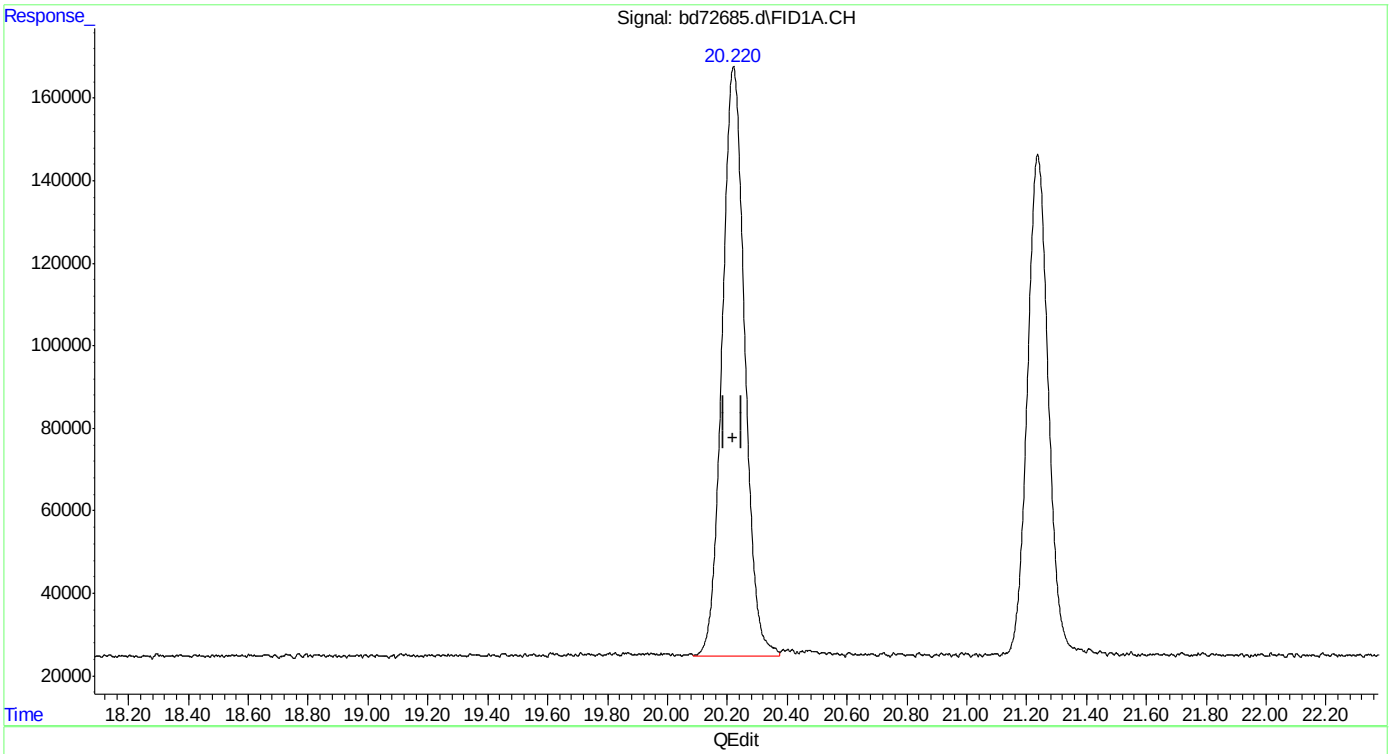
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:44:19
Operator  : tonyf
Sample    : ic3752-10
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene

20.220min 8.745 ppb m

response 7477968

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 11:25:29 2016

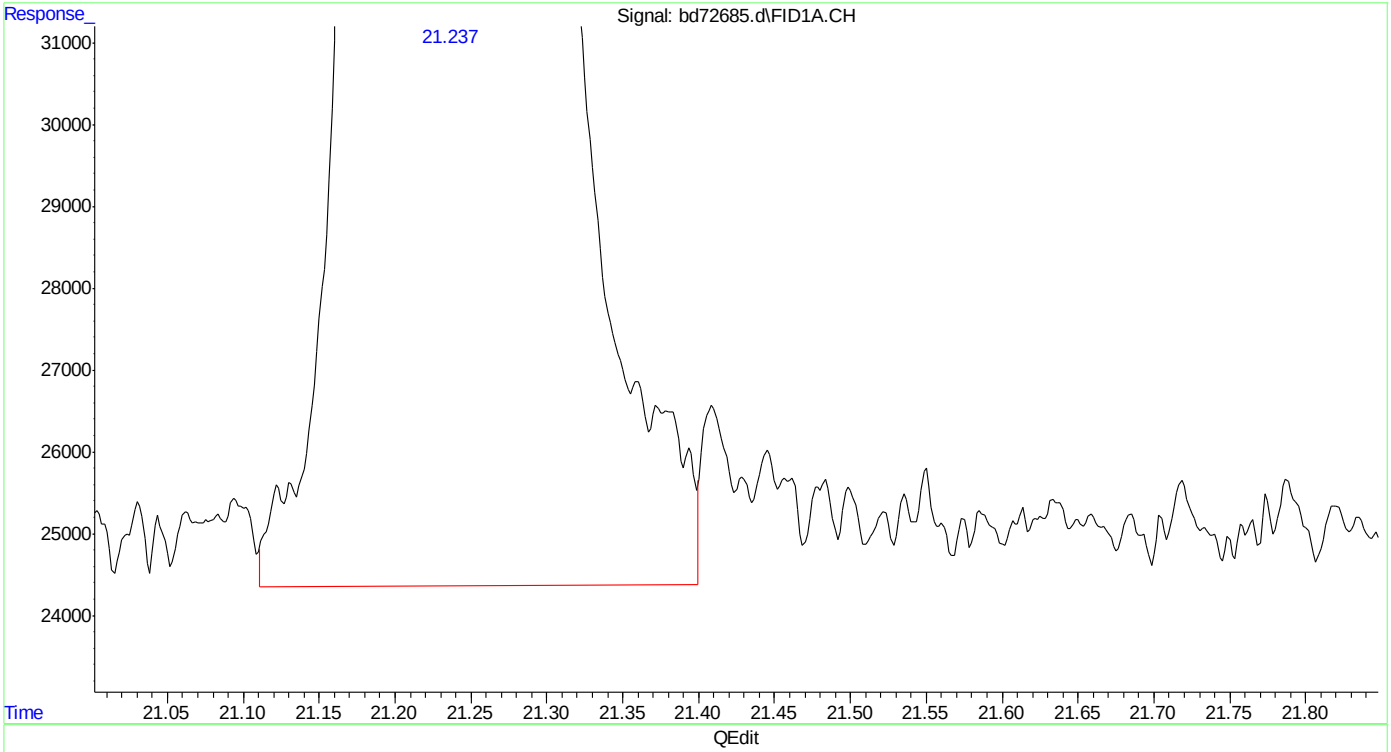
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.238min 11.128 ppb
response 6002419

(+) = Expected Retention Time

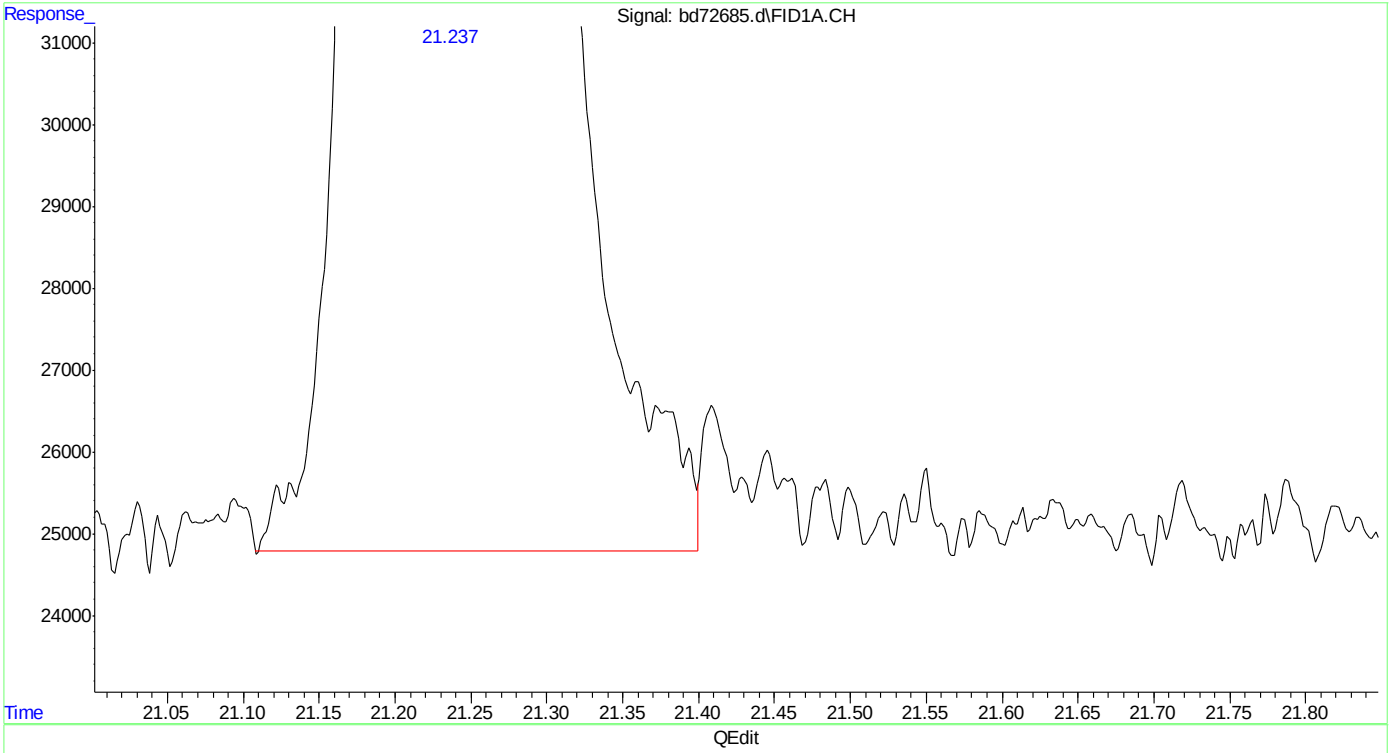
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.237min 10.991 ppb m
response 5928362

(+) = Expected Retention Time

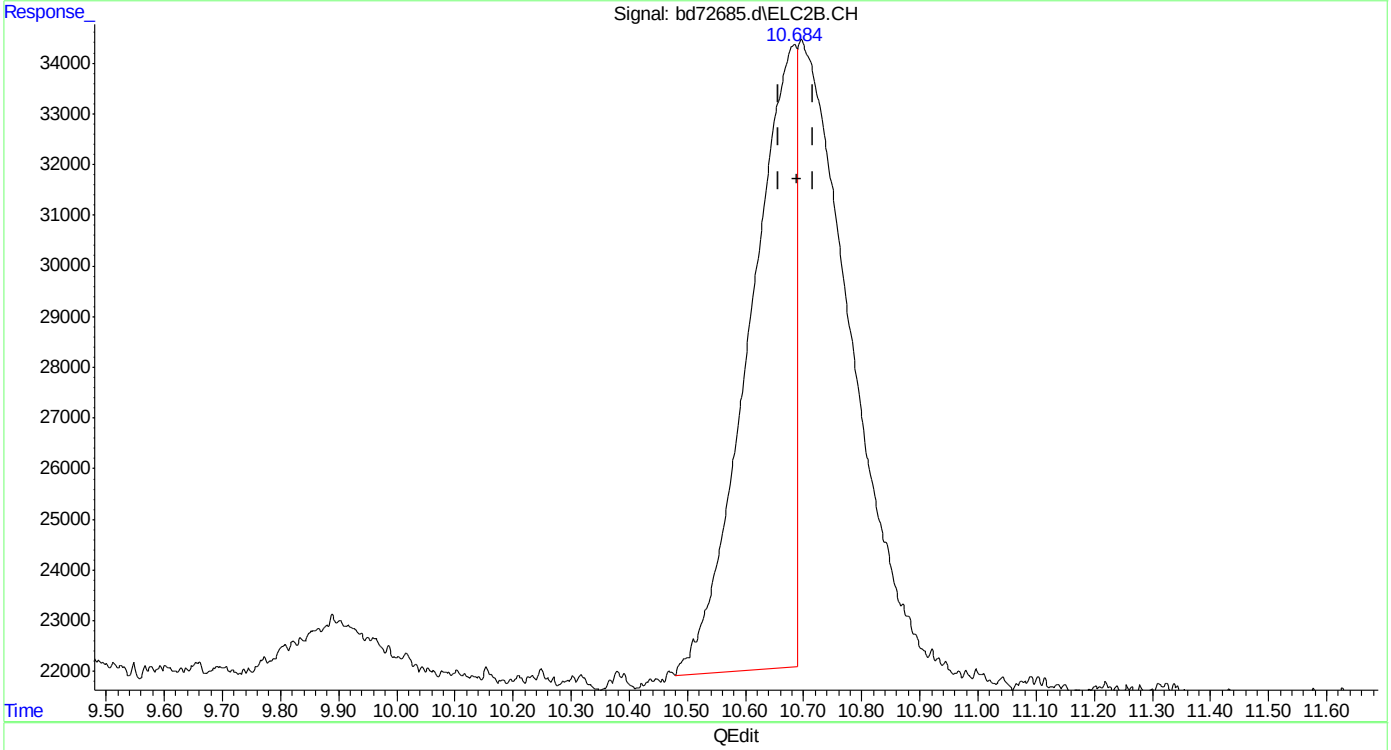
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.684min 4.270 ppb
response 680109

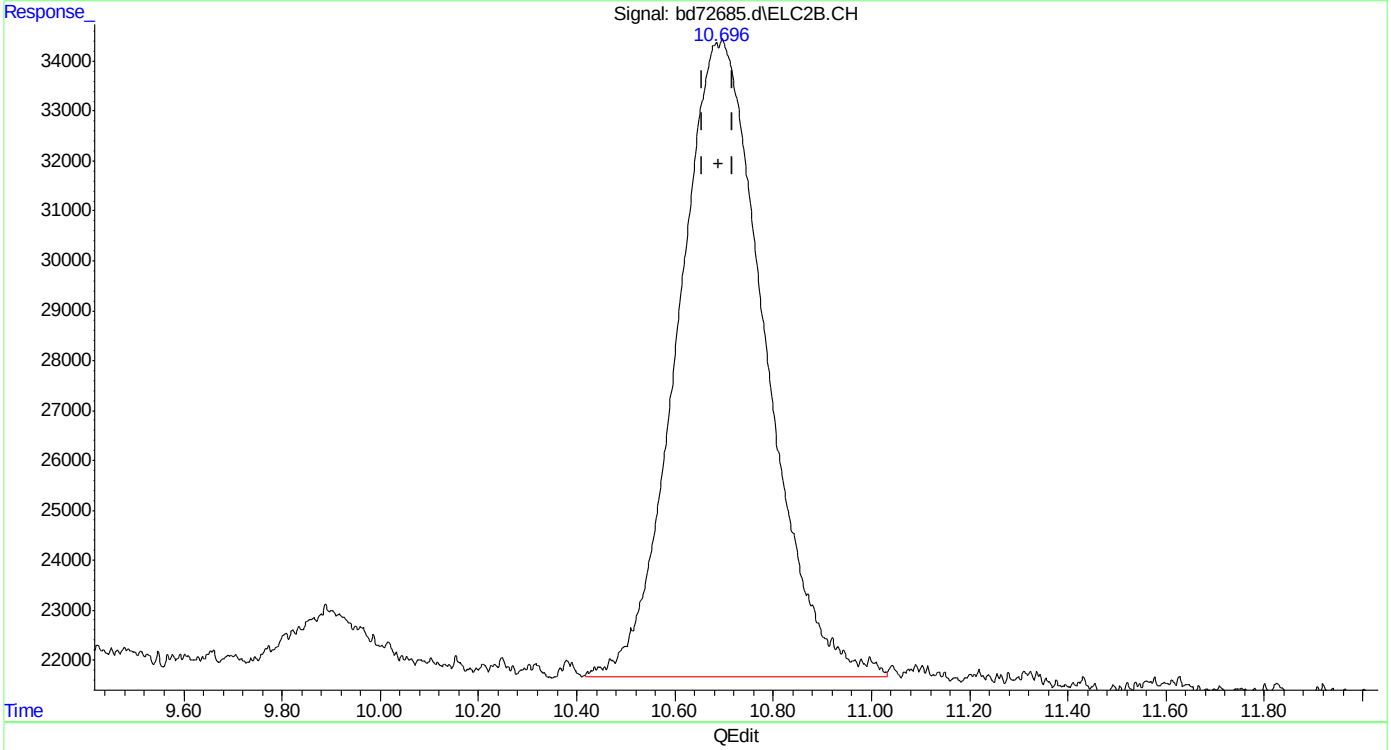
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.696min 9.879 ppb m
response 1573347

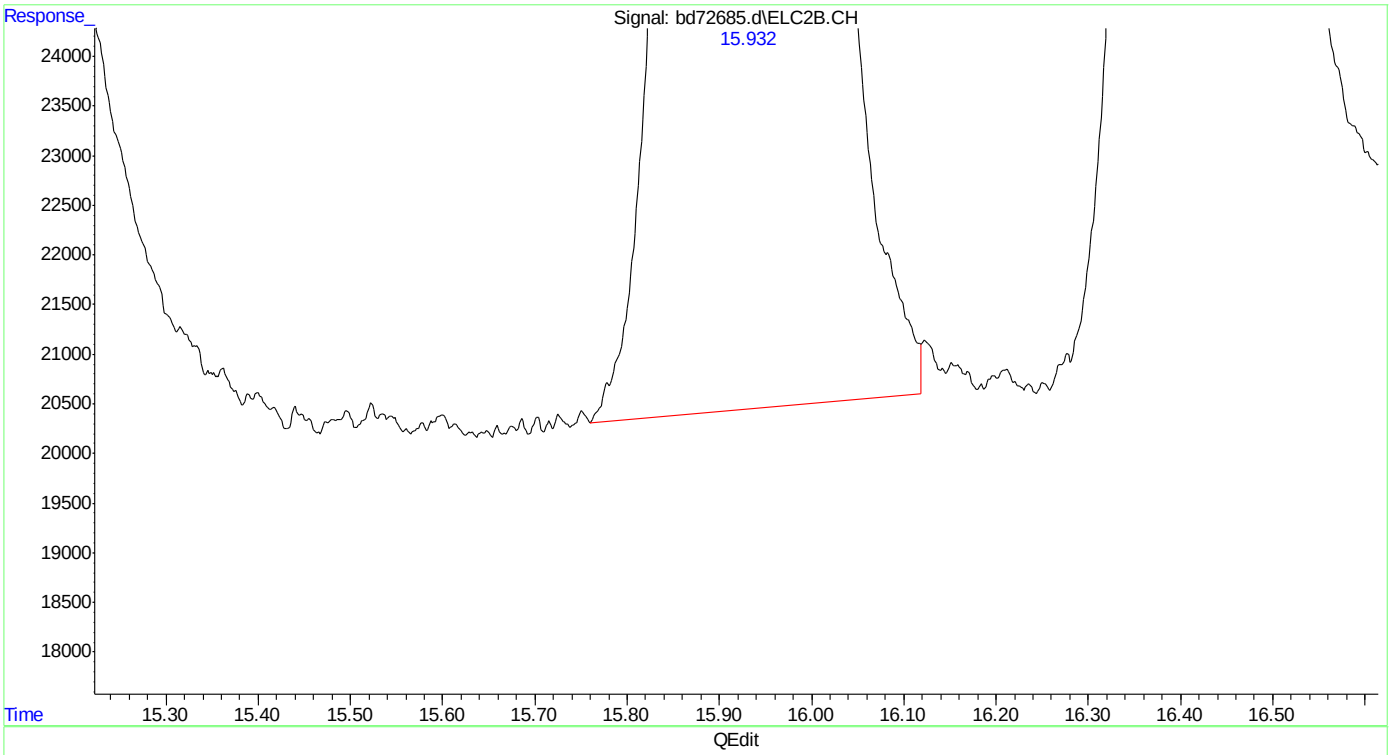
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
15.932min 9.475 ppb
response 4569131

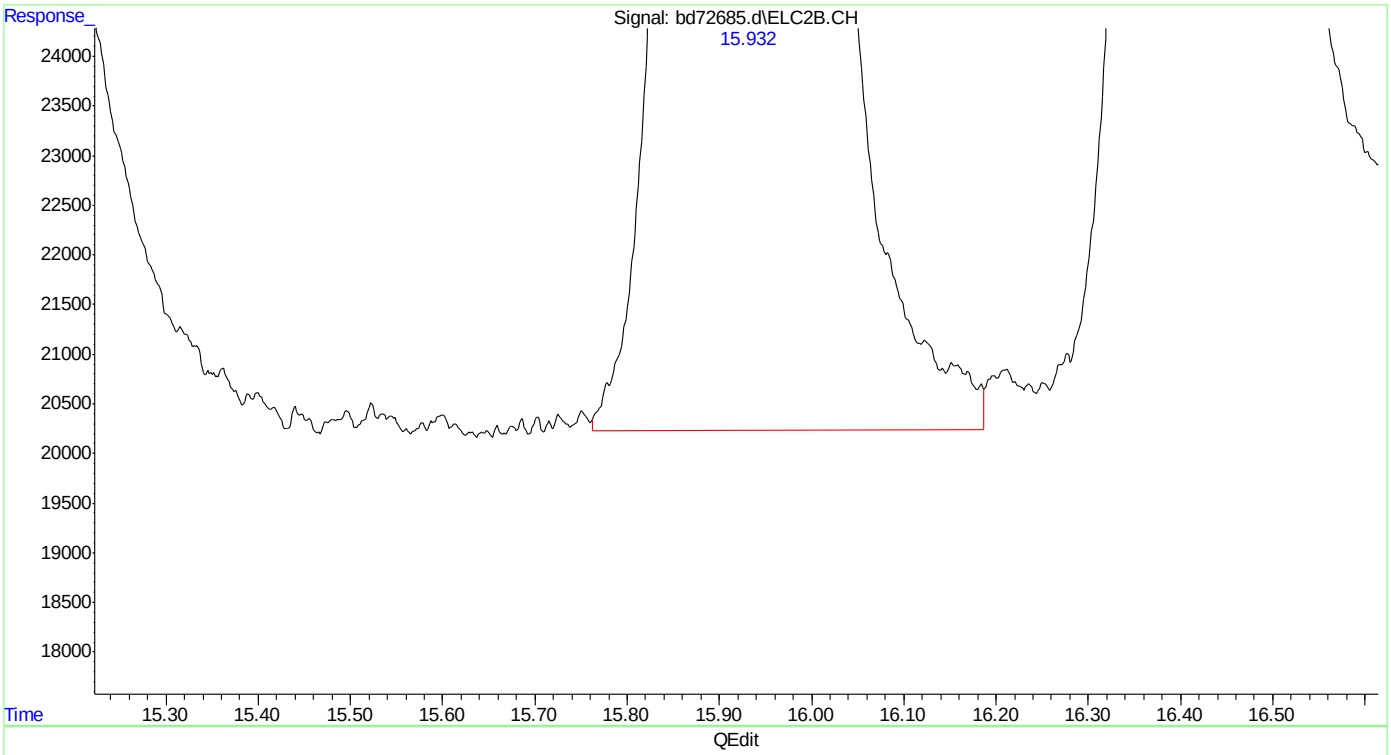
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:34 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
15.932min 9.625 ppb m
response 4641530

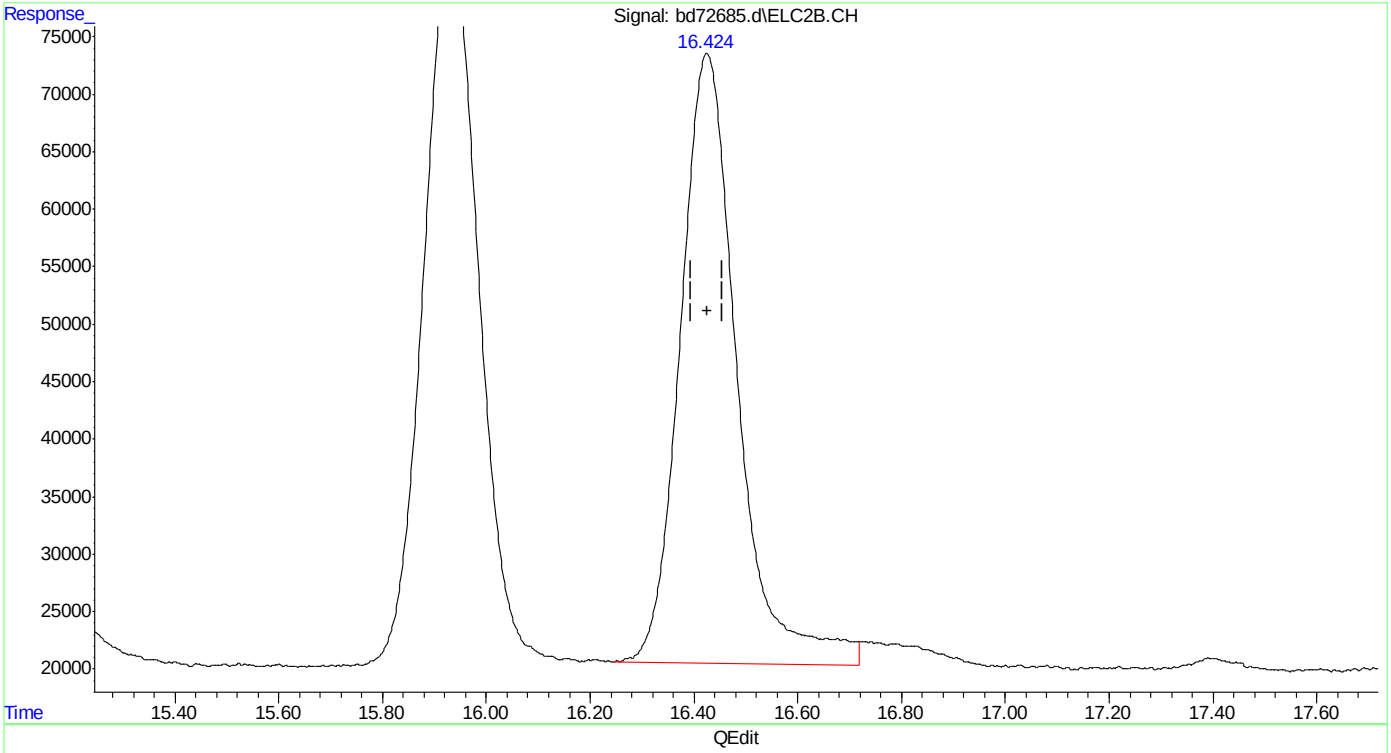
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
16.425min 13.152 ppb
response 4046516

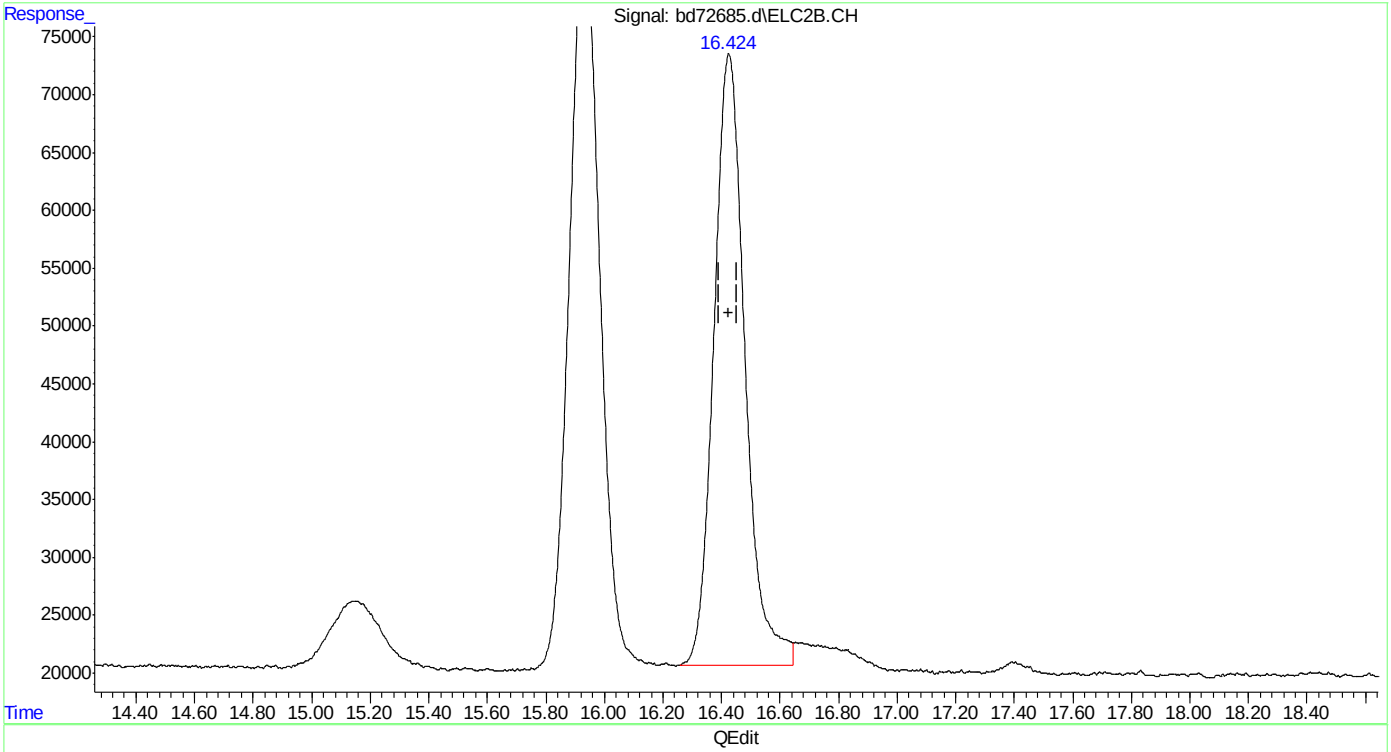
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
16.424min 12.680 ppb m
response 3901231

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:50 2016

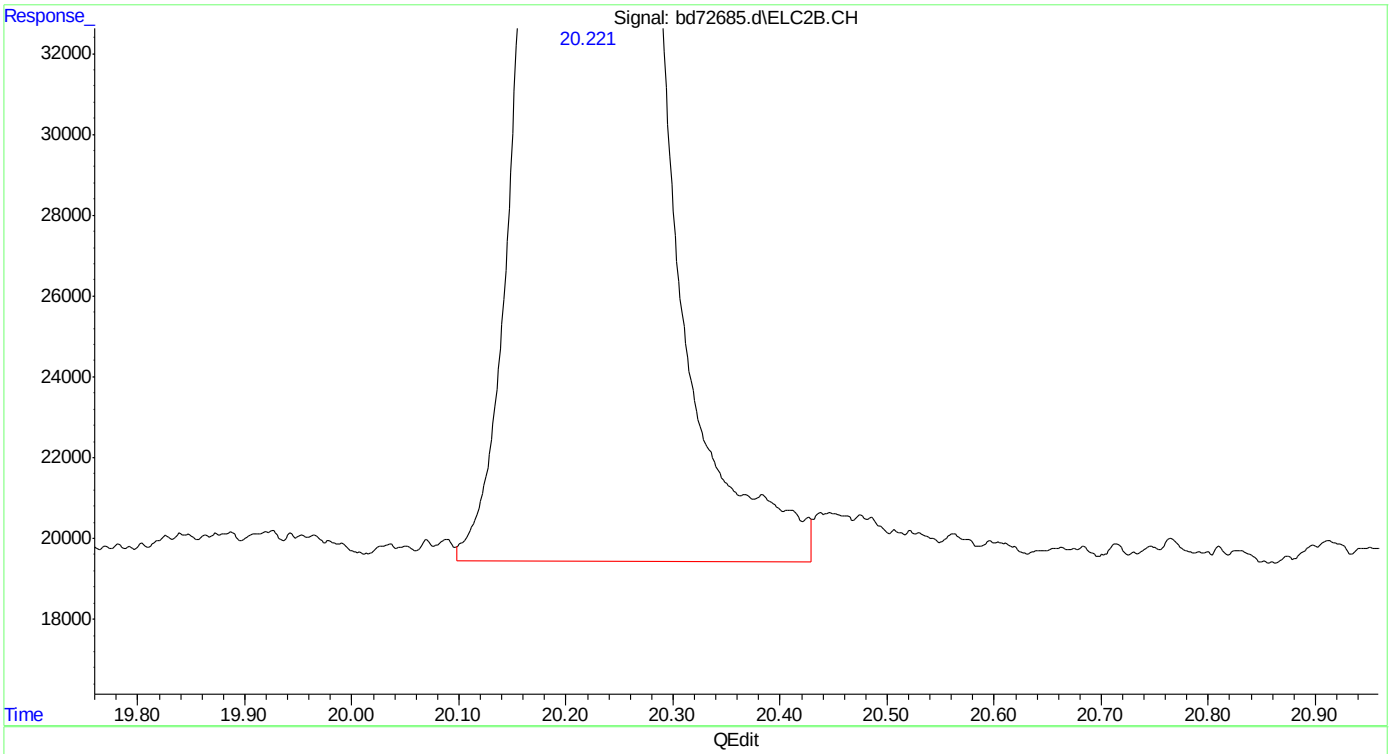
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
20.221min 9.622 ppb
response 4341841

(+) = Expected Retention Time

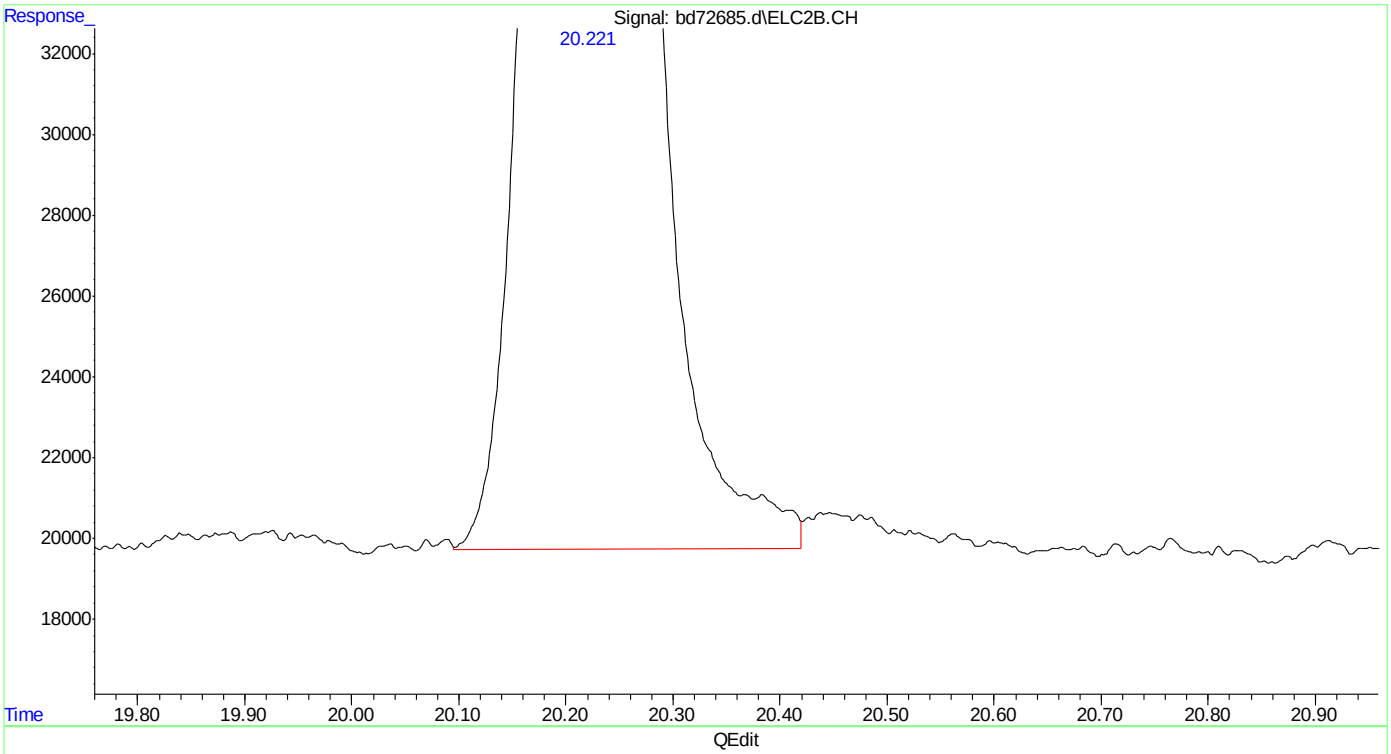
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
20.221min 9.485 ppb m
response 4279870

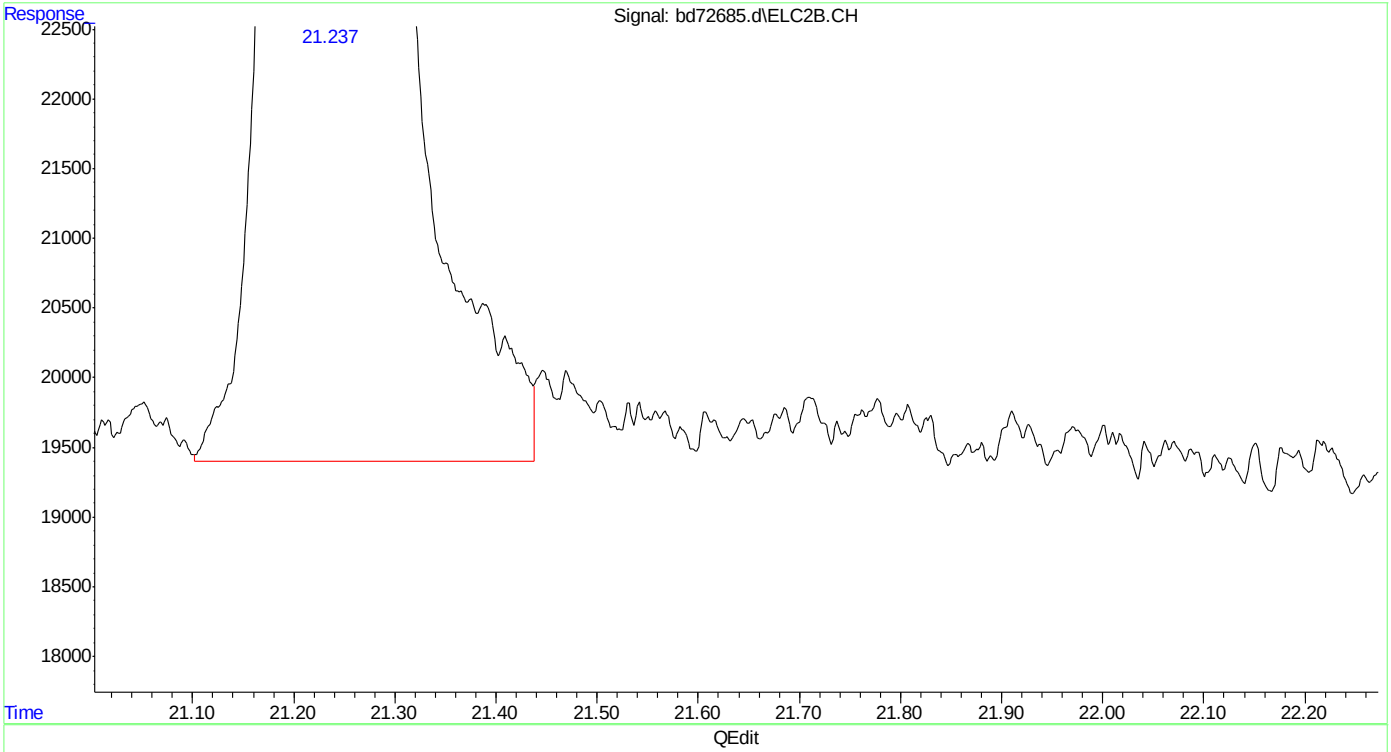
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
21.238min 12.193 ppb
response 2212042

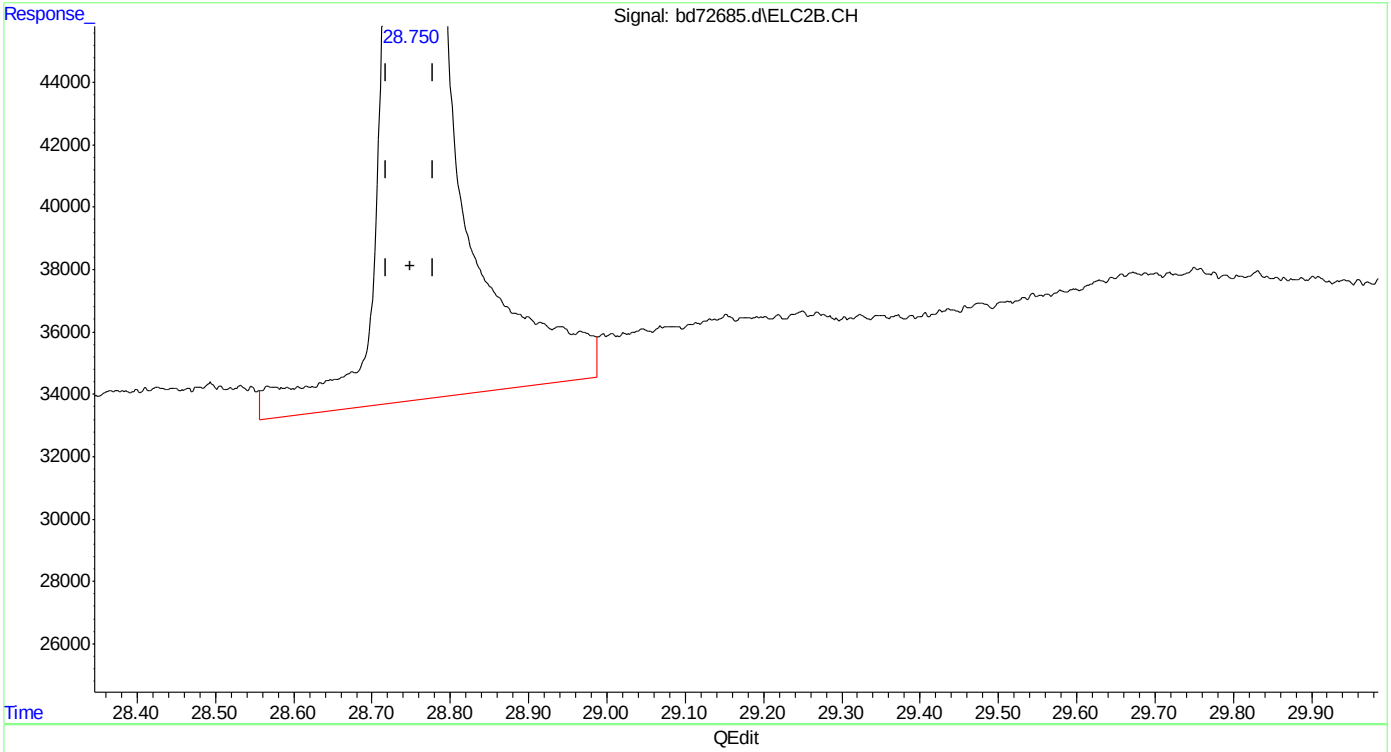
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:06 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.751min 8.157 ppb
response 3113386

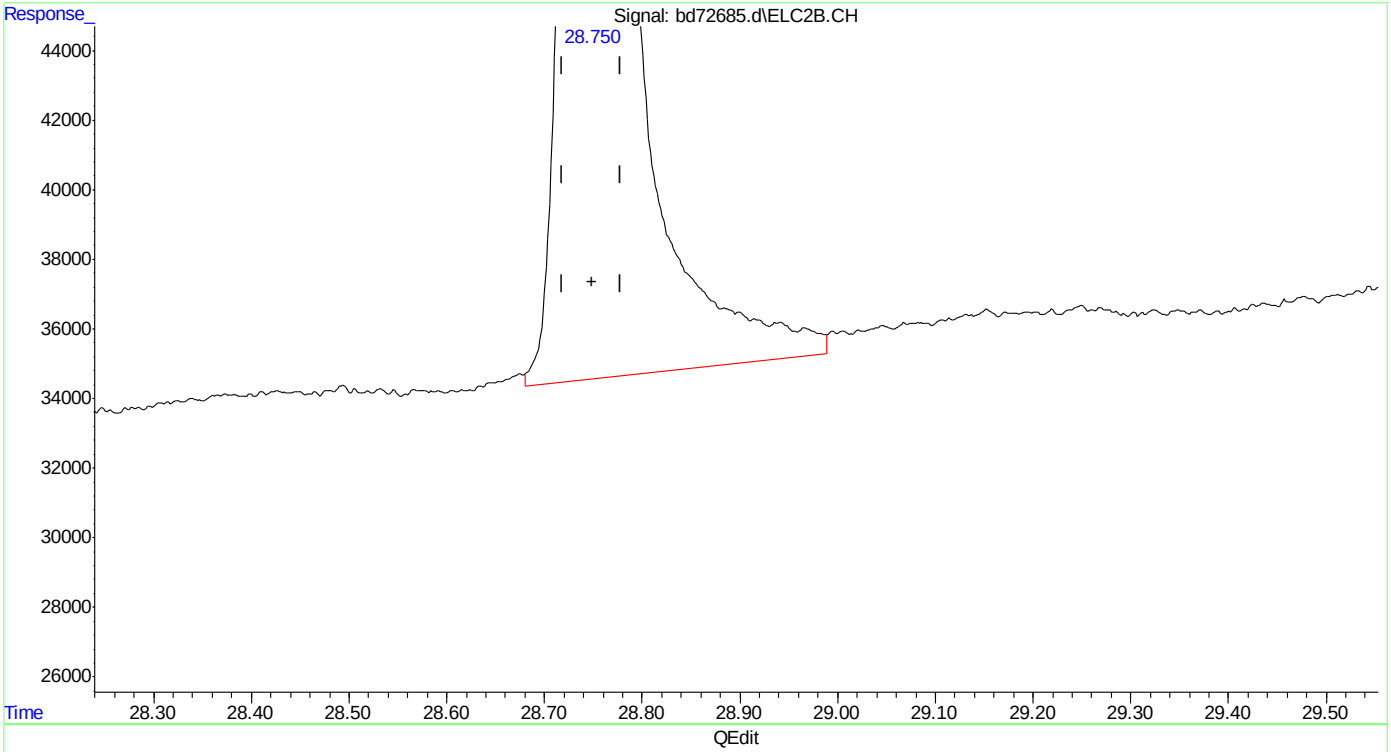
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.750min 7.611 ppb m
response 2905214

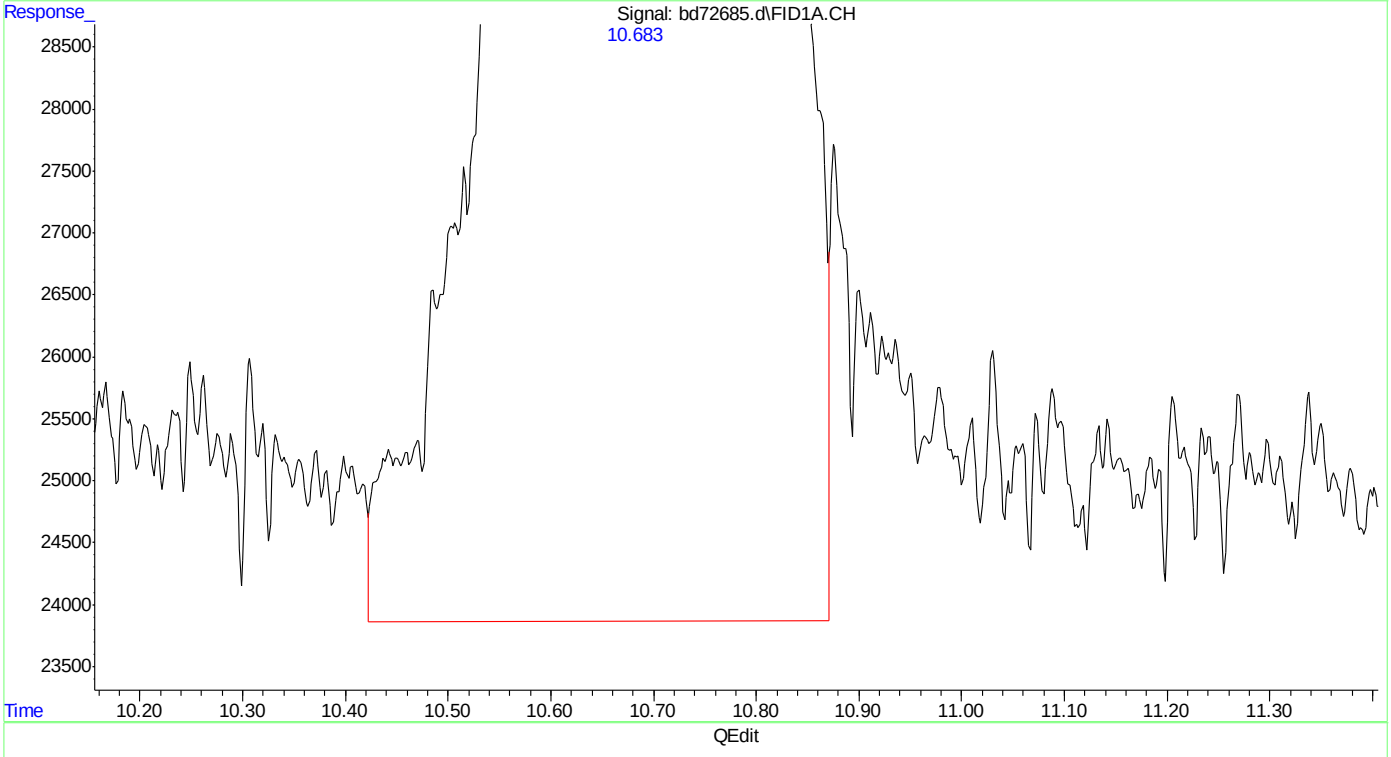
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
10.685min 10.259 ppb
response 3071017

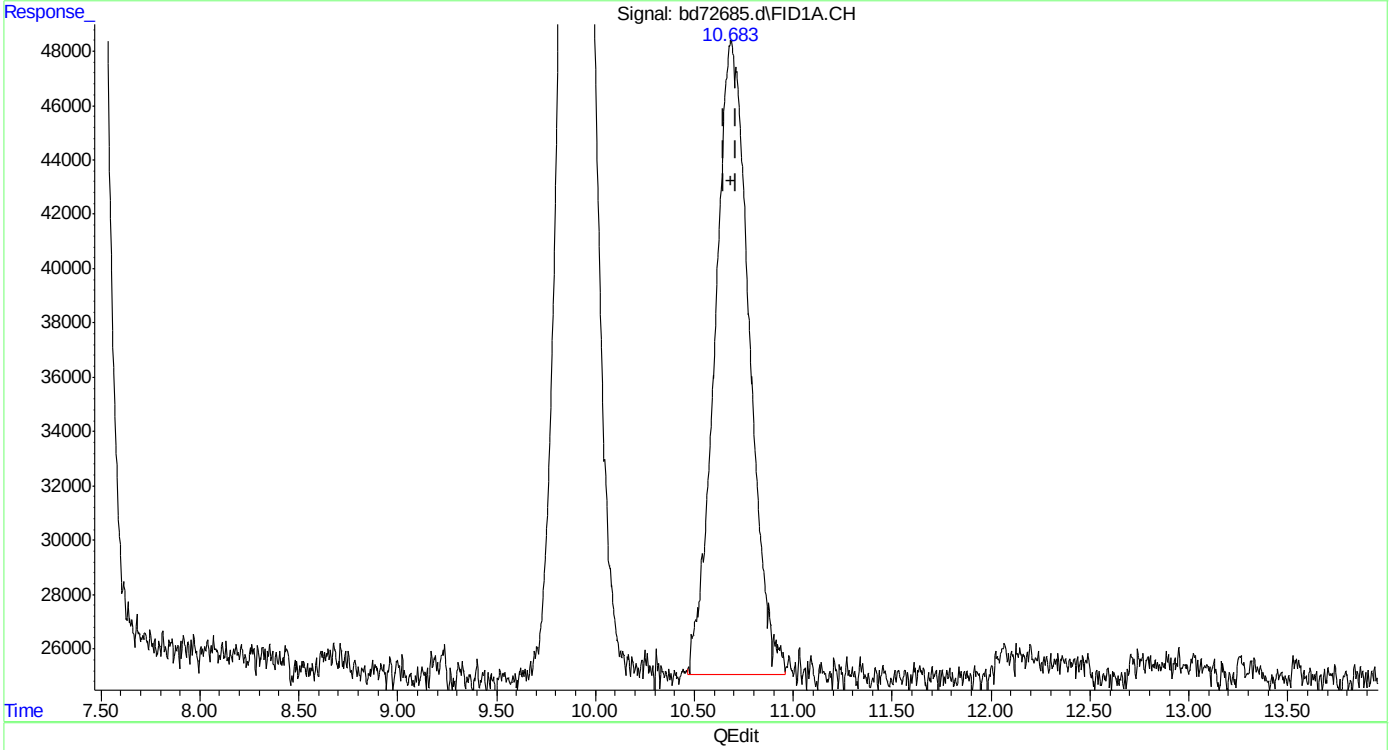
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:29:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
10.683min 9.395 ppb m
response 2812431

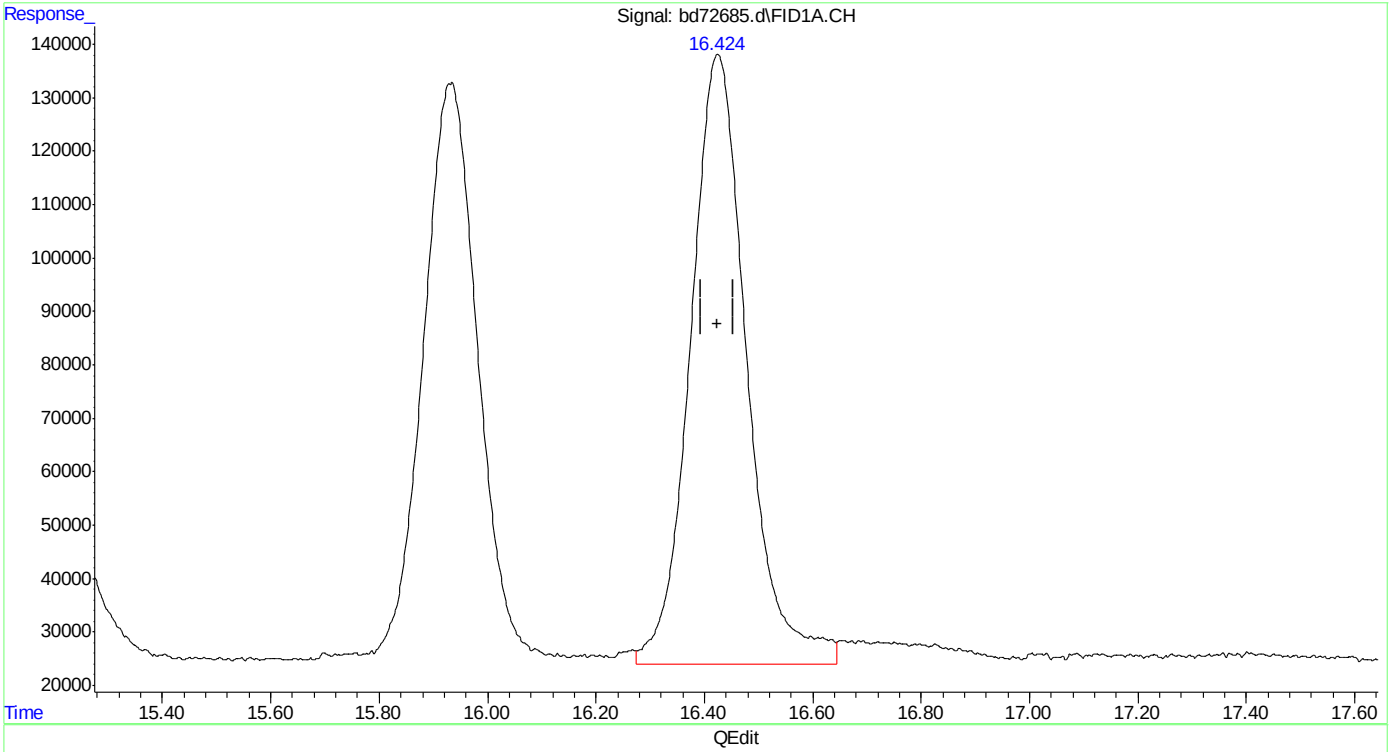
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:29:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.425min 11.256 ppb
response 8237267

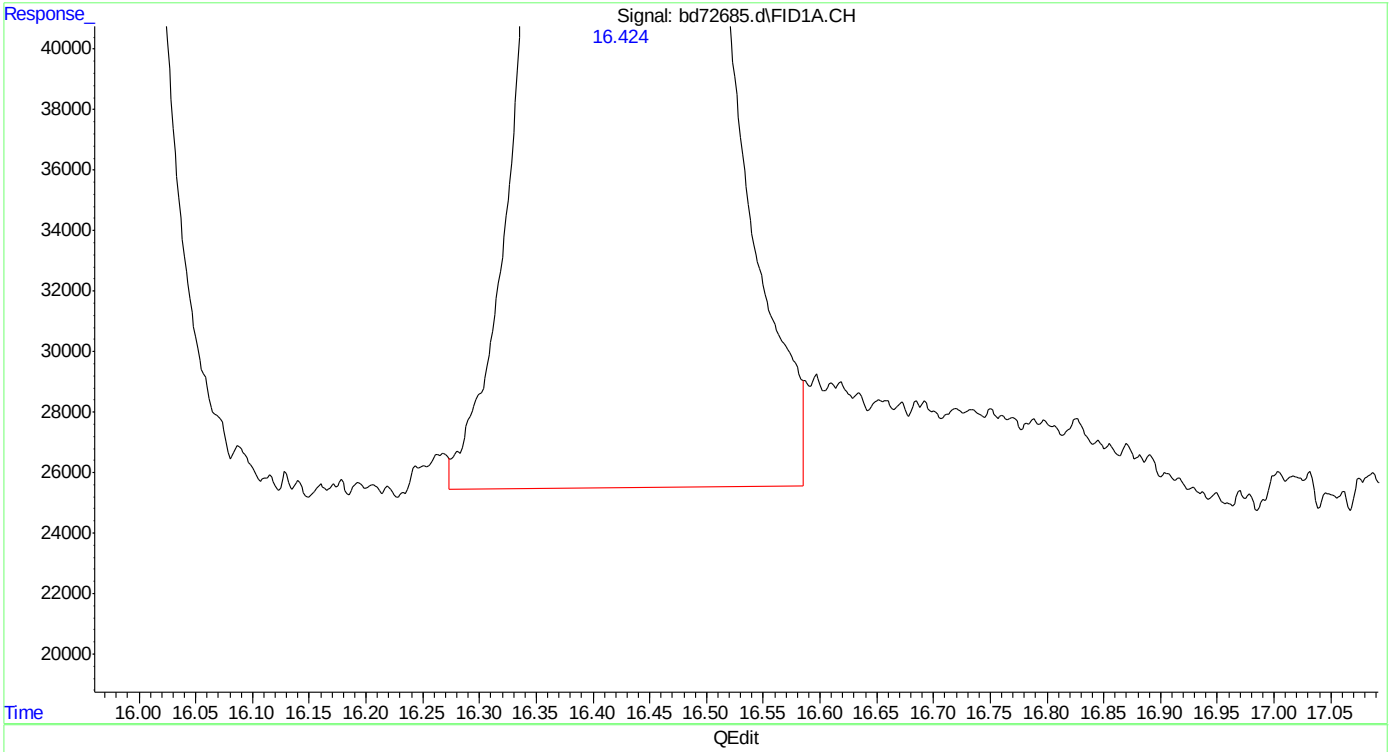
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.424min 10.647 ppb m
response 7791413

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:15 2016

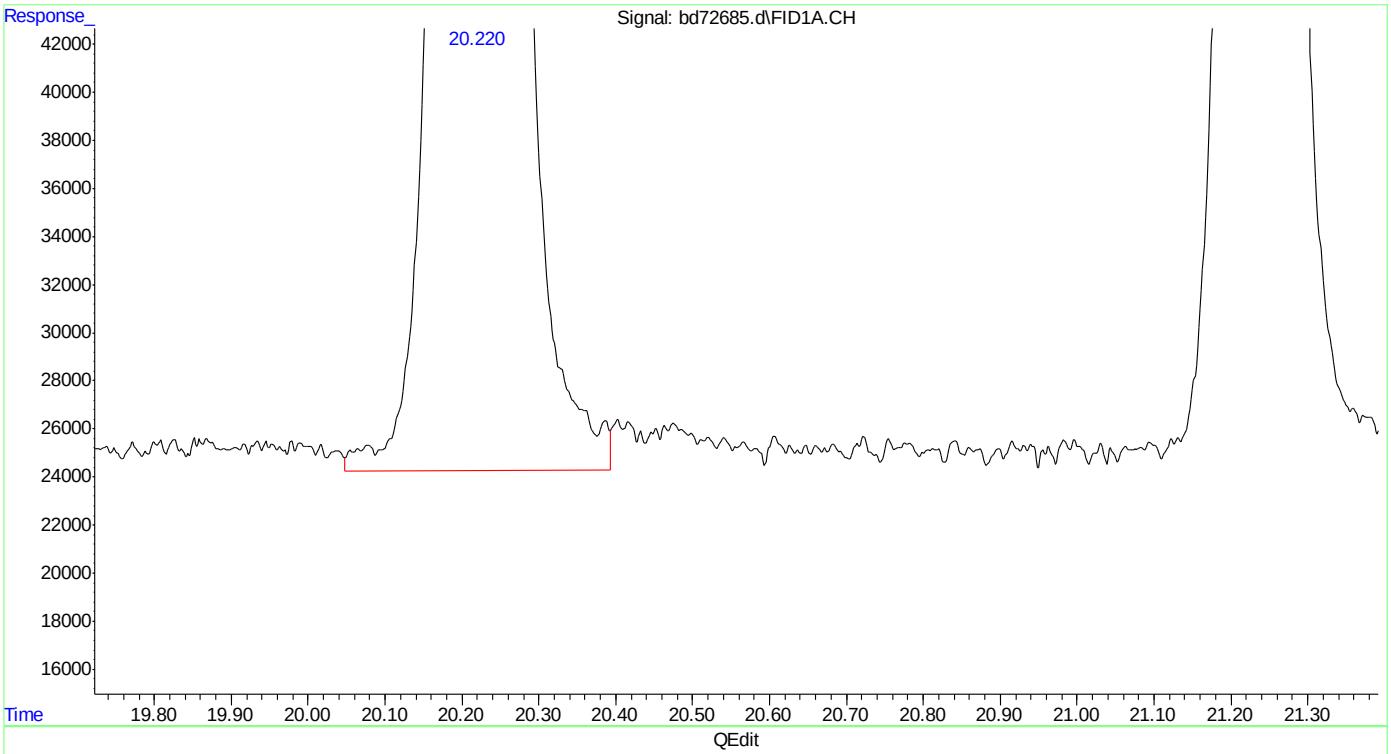
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
20.221min 9.495 ppb
response 7610241

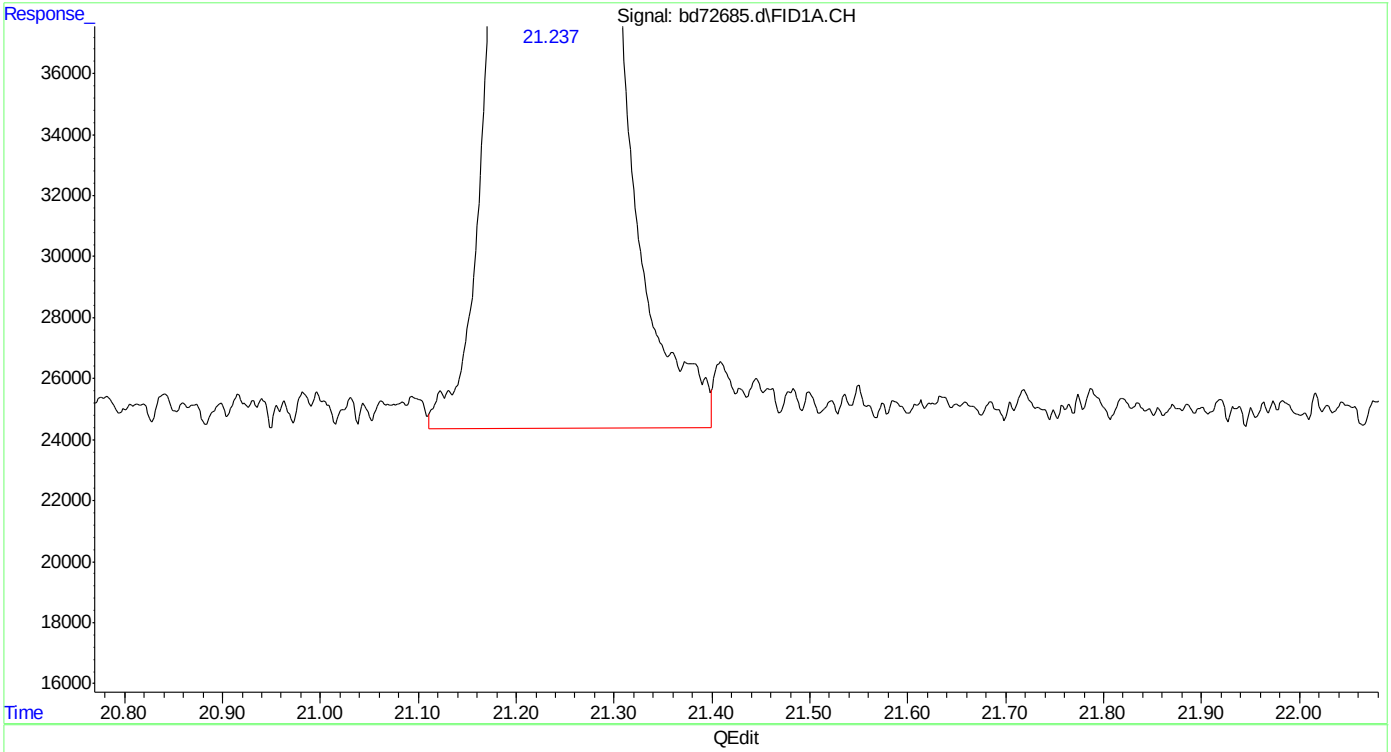
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.238min 12.845 ppb
response 6002419

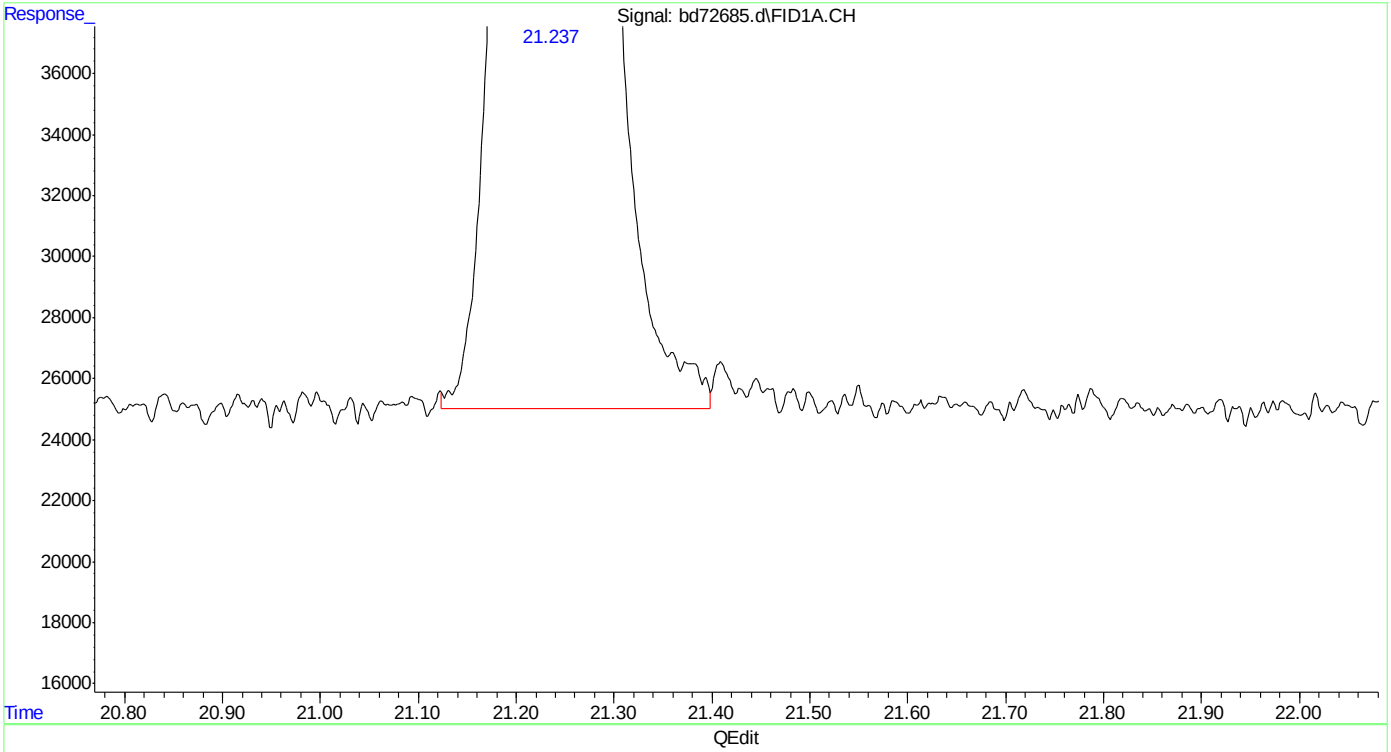
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.237min 12.597 ppb m
response 5886759

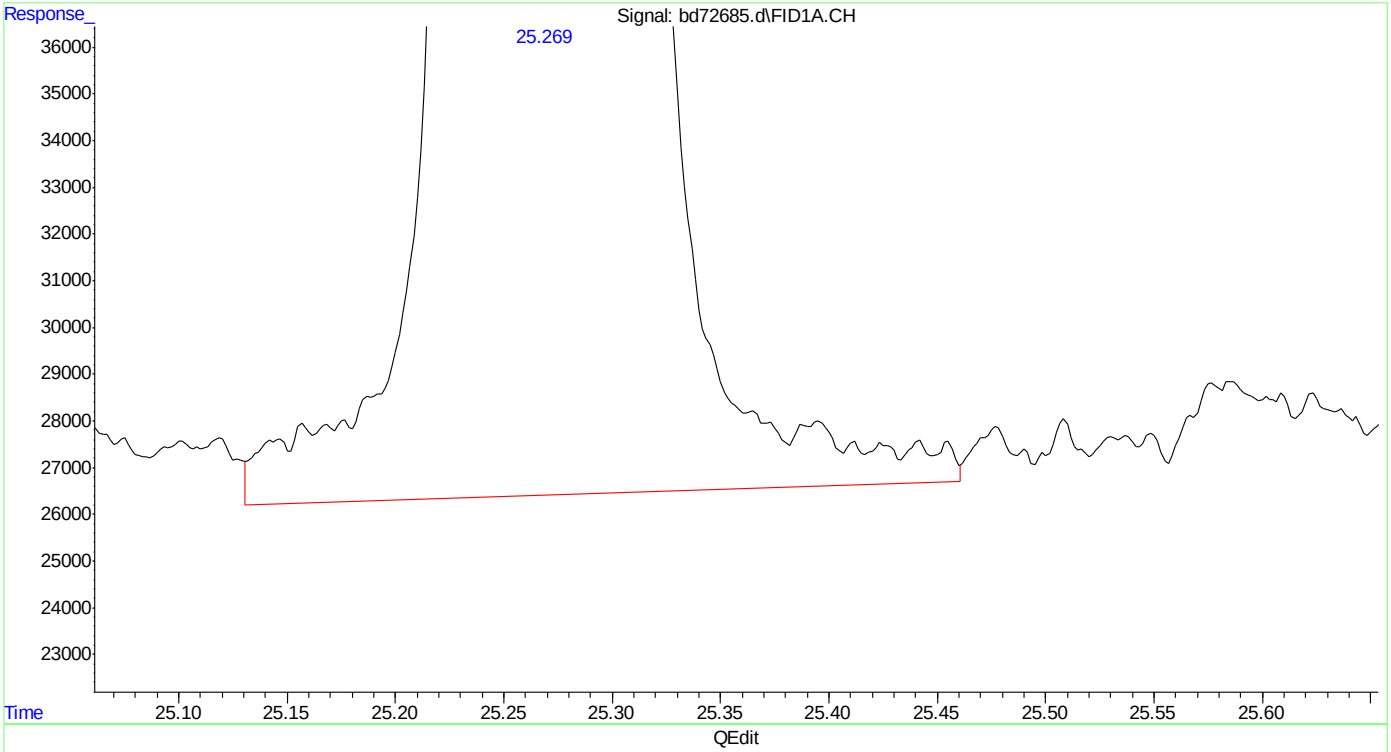
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:51 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
25.270min 10.440 ppb
response 9966676

(+) = Expected Retention Time

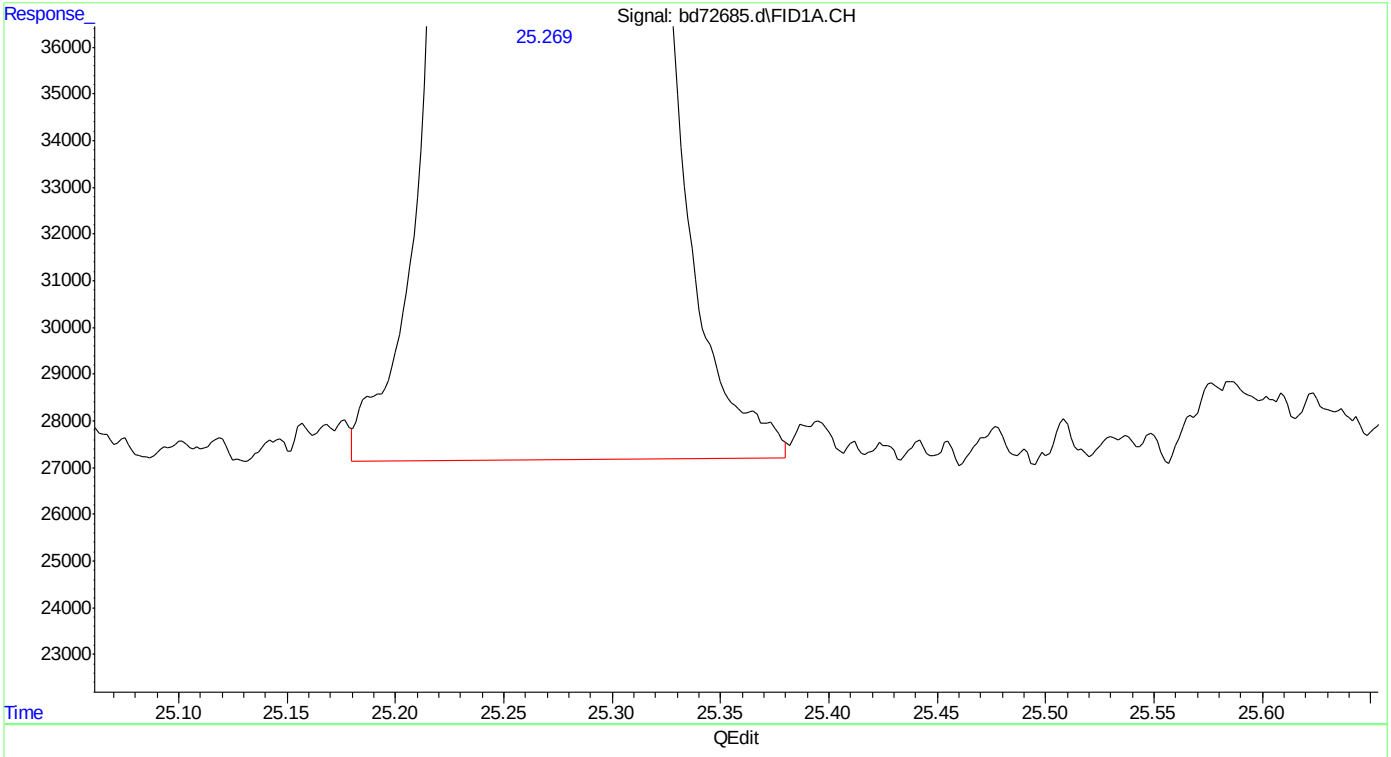
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
25.269min 10.261 ppb m
response 9795606

(+) = Expected Retention Time

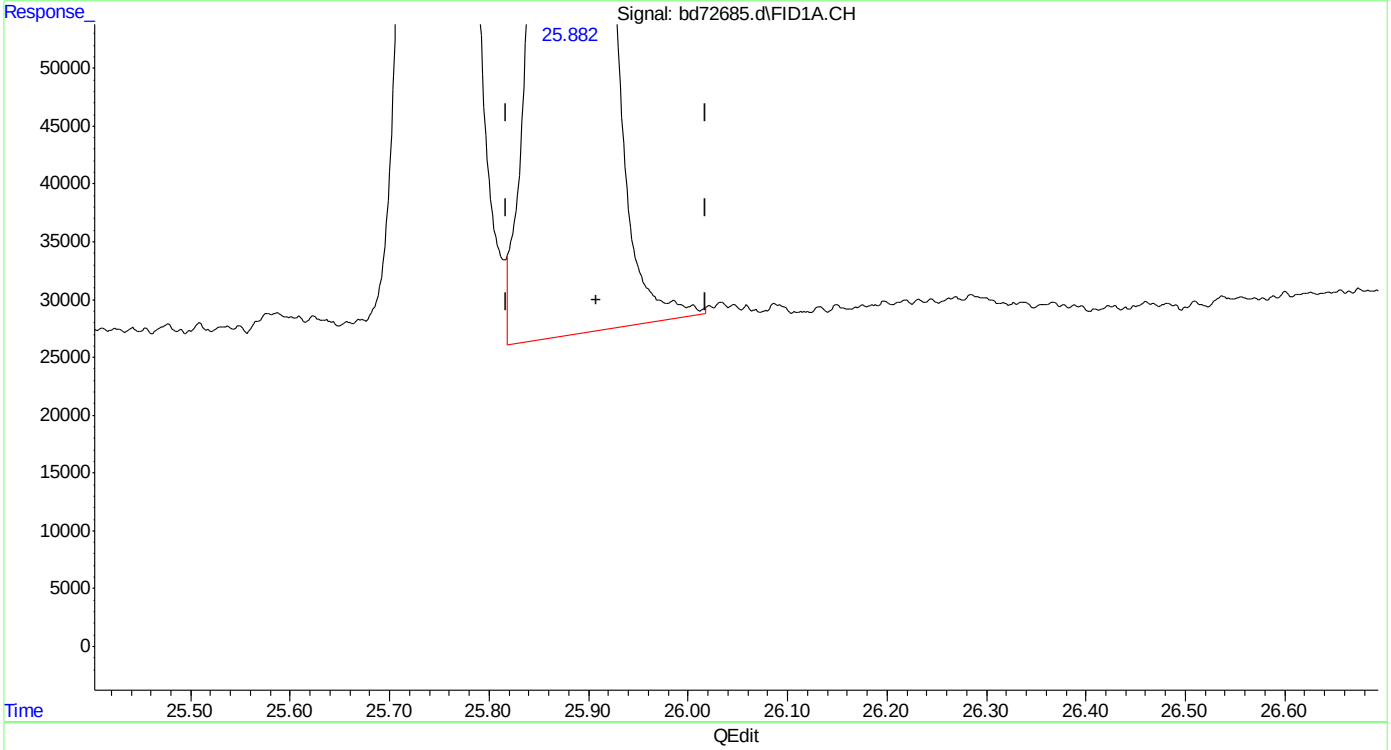
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) butylcyclohexane (h)
25.908min 10.734 ppb
response 9402228

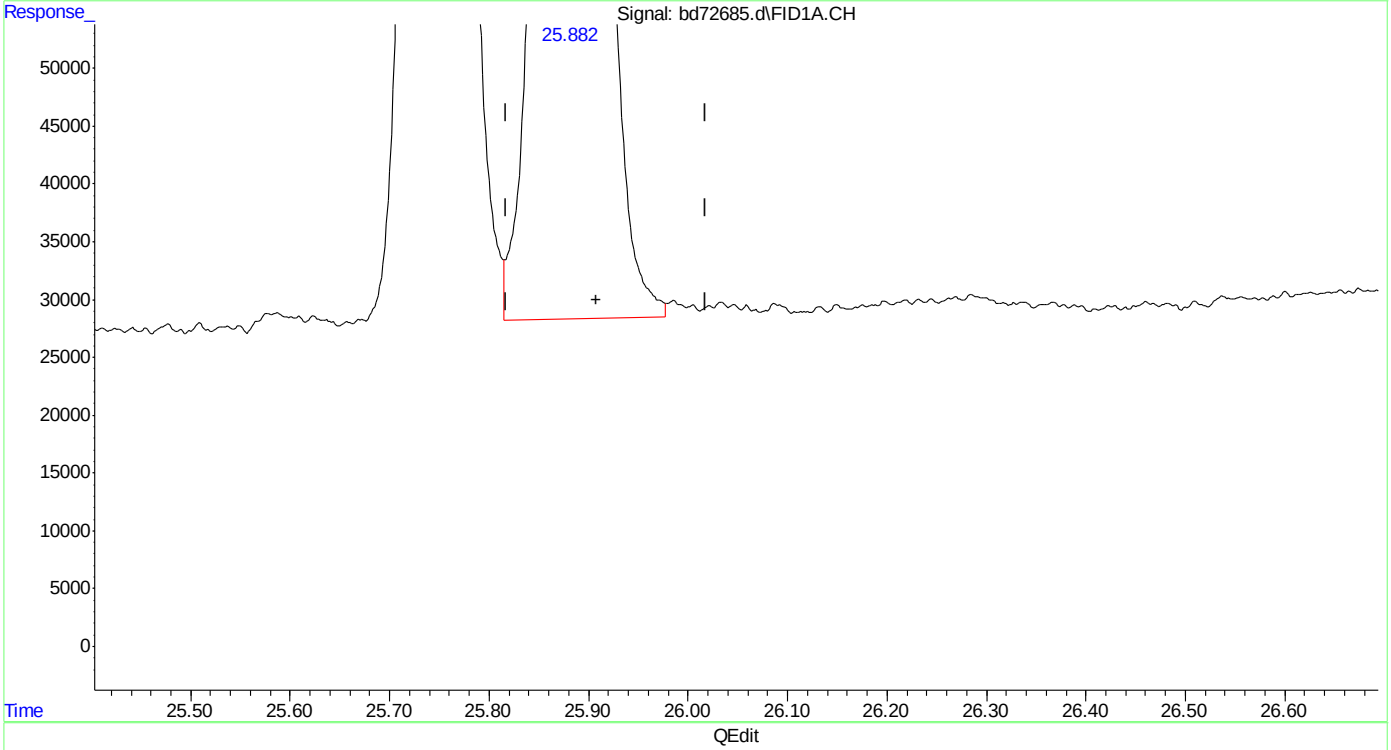
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) butylcyclohexane (h)
25.908min 10.586 ppb m
response 9272961

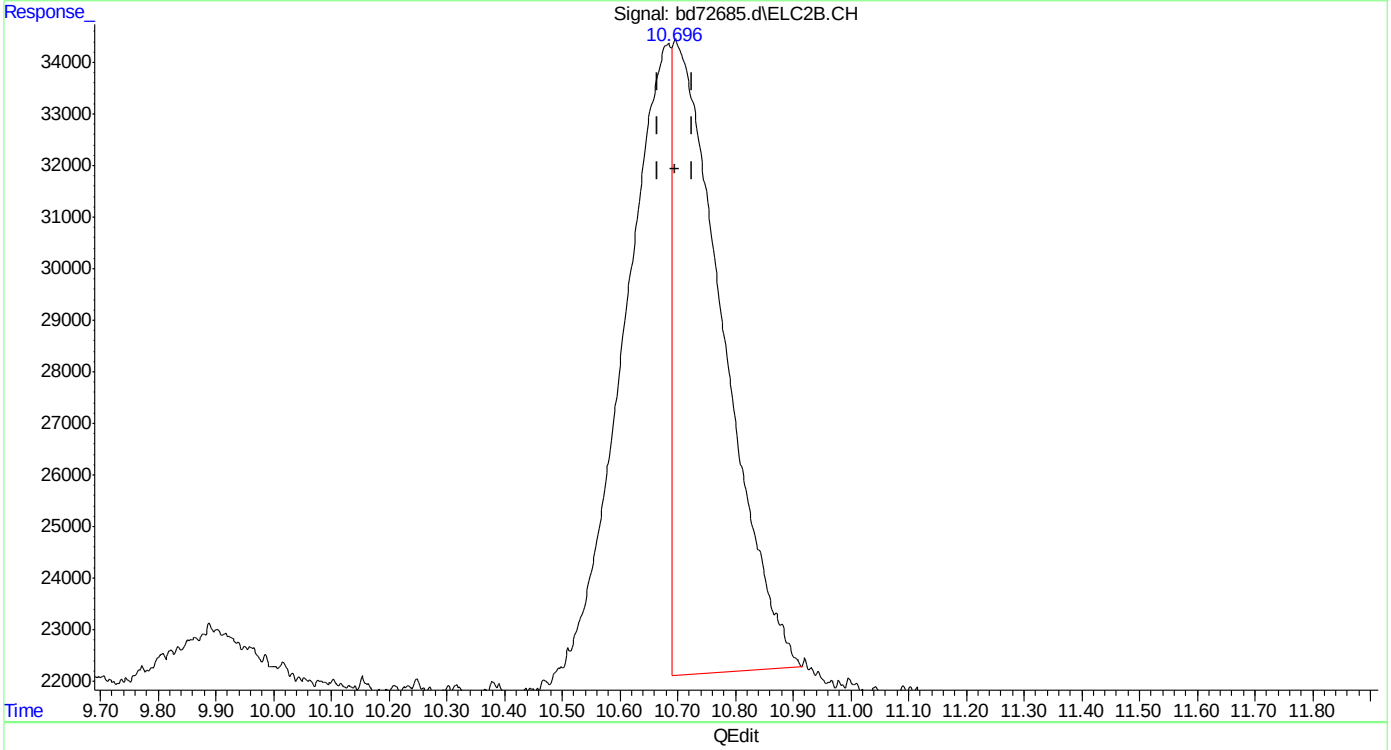
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.696min 4.730 ppb
response 748697

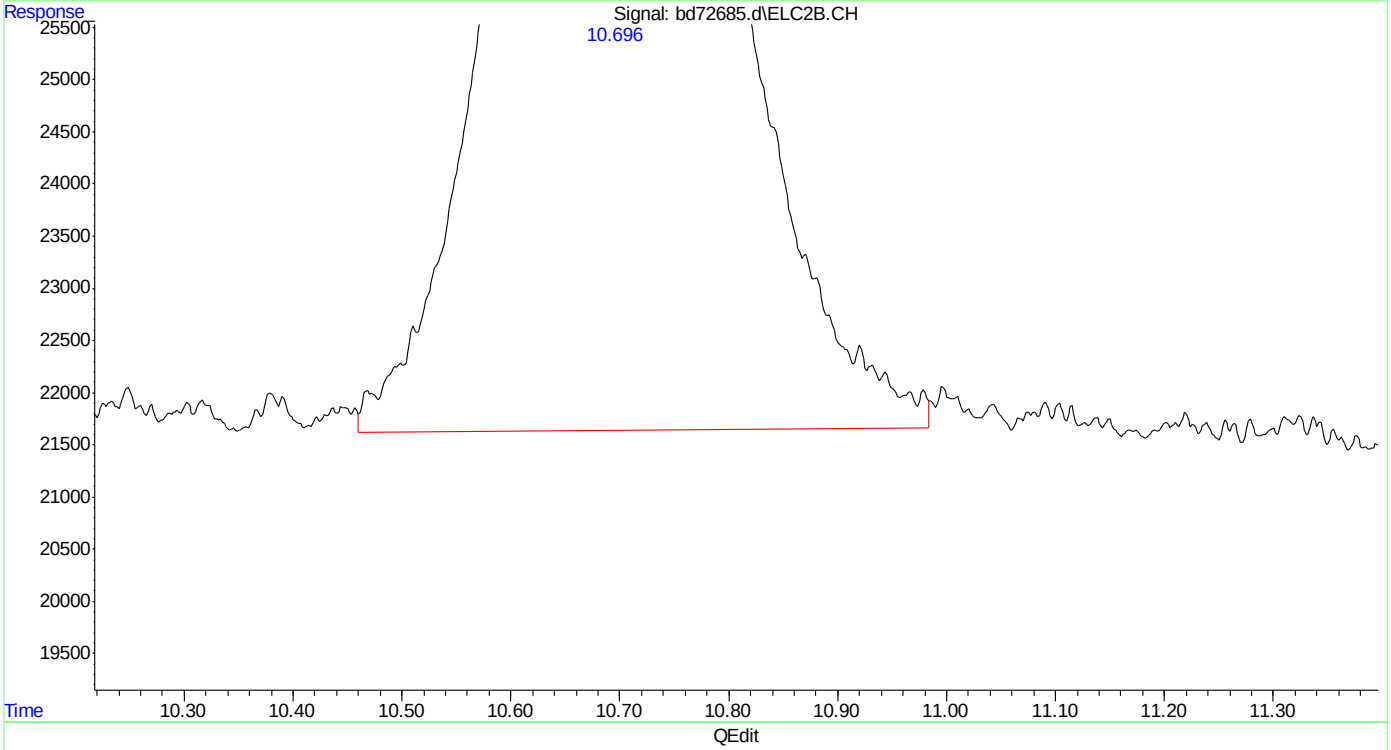
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.696min 9.932 ppb m
response 1572288

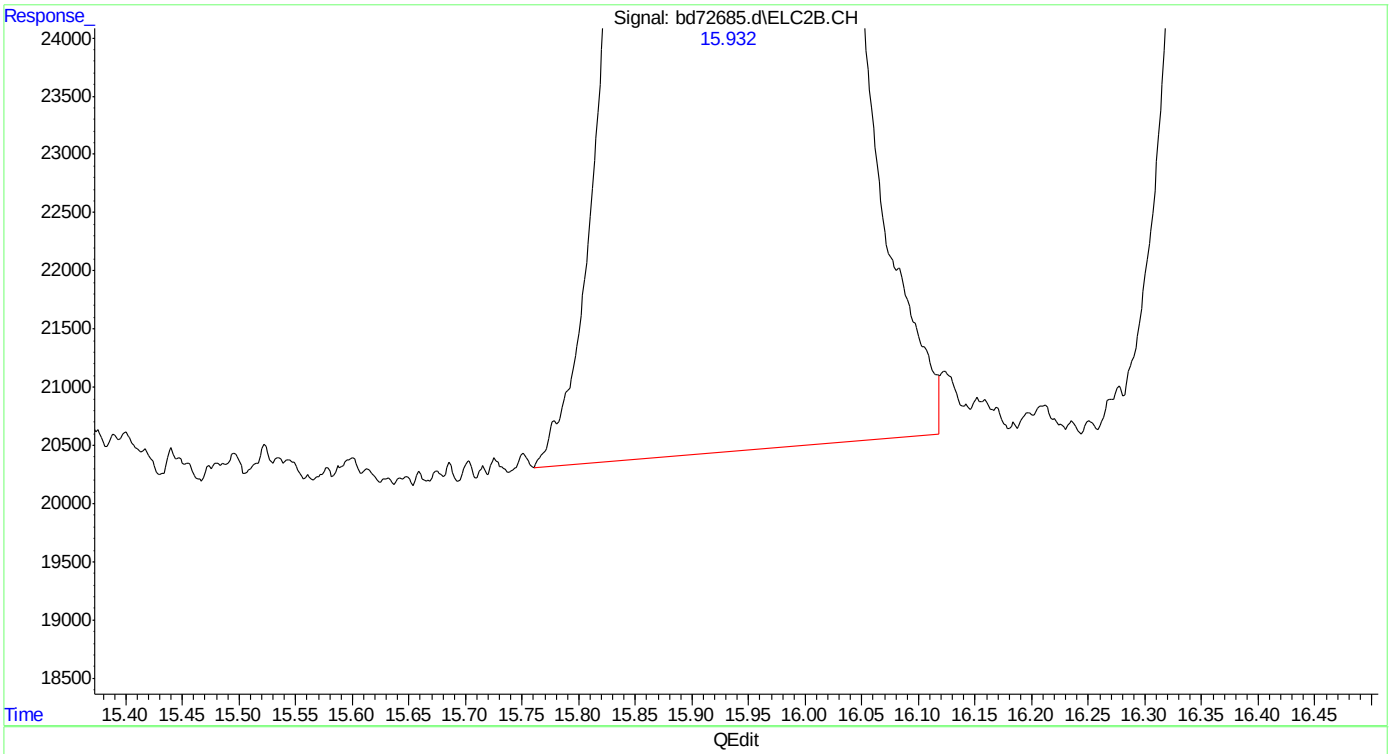
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:01 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:44:19
Operator  : tonyf
Sample    : ic3752-10
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2

15.932min 9.656 ppb

response 4569131

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 11:32:06 2016

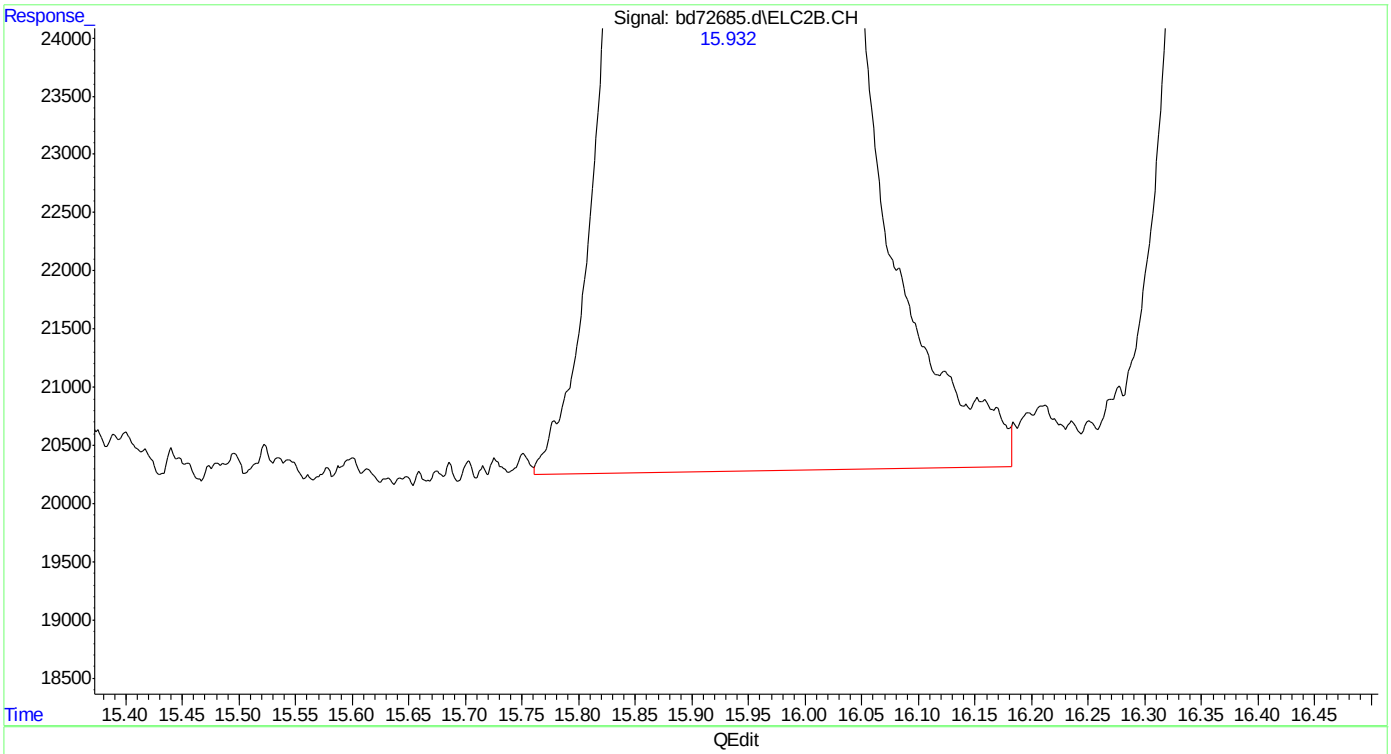
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
15.932min 9.782 ppb m
response 4628504

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:12 2016

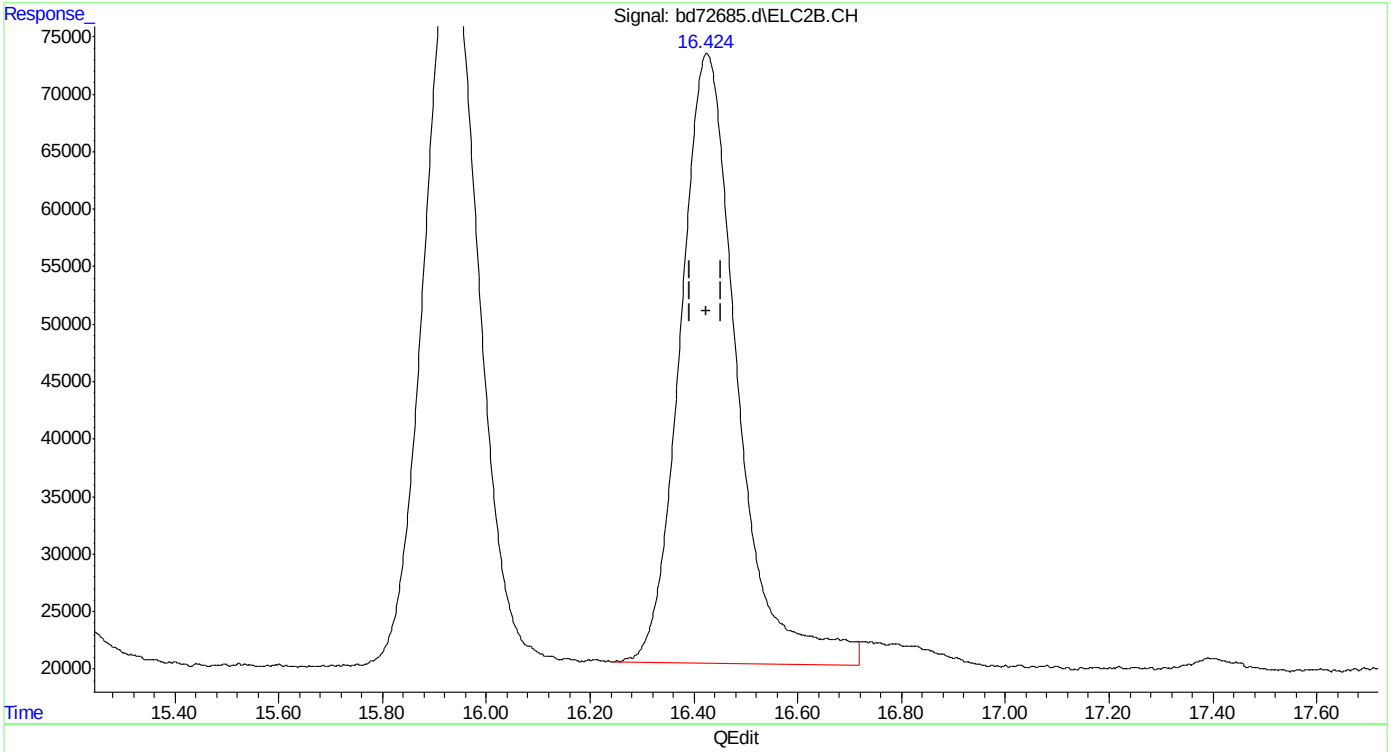
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
16.425min 11.598 ppb
response 4046516

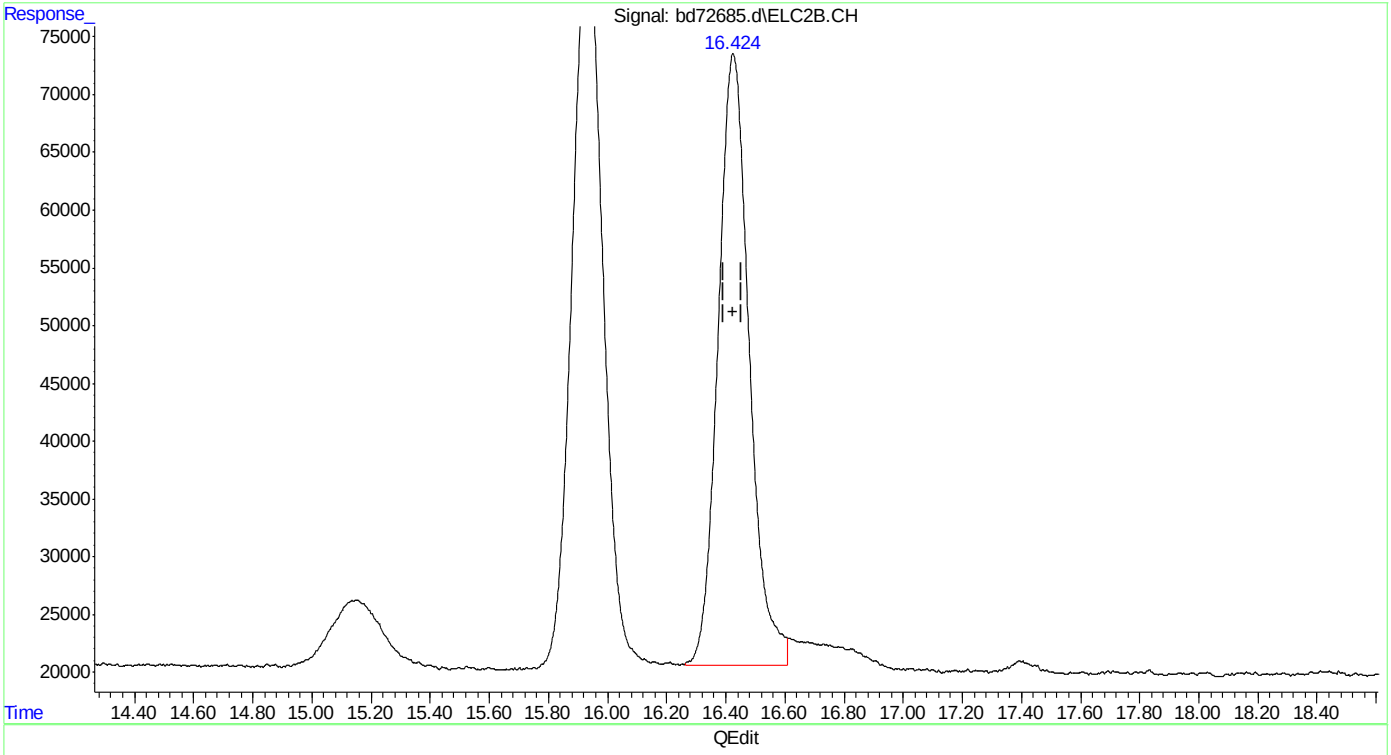
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:15 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
16.424min 11.091 ppb m
response 3869749

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:23 2016

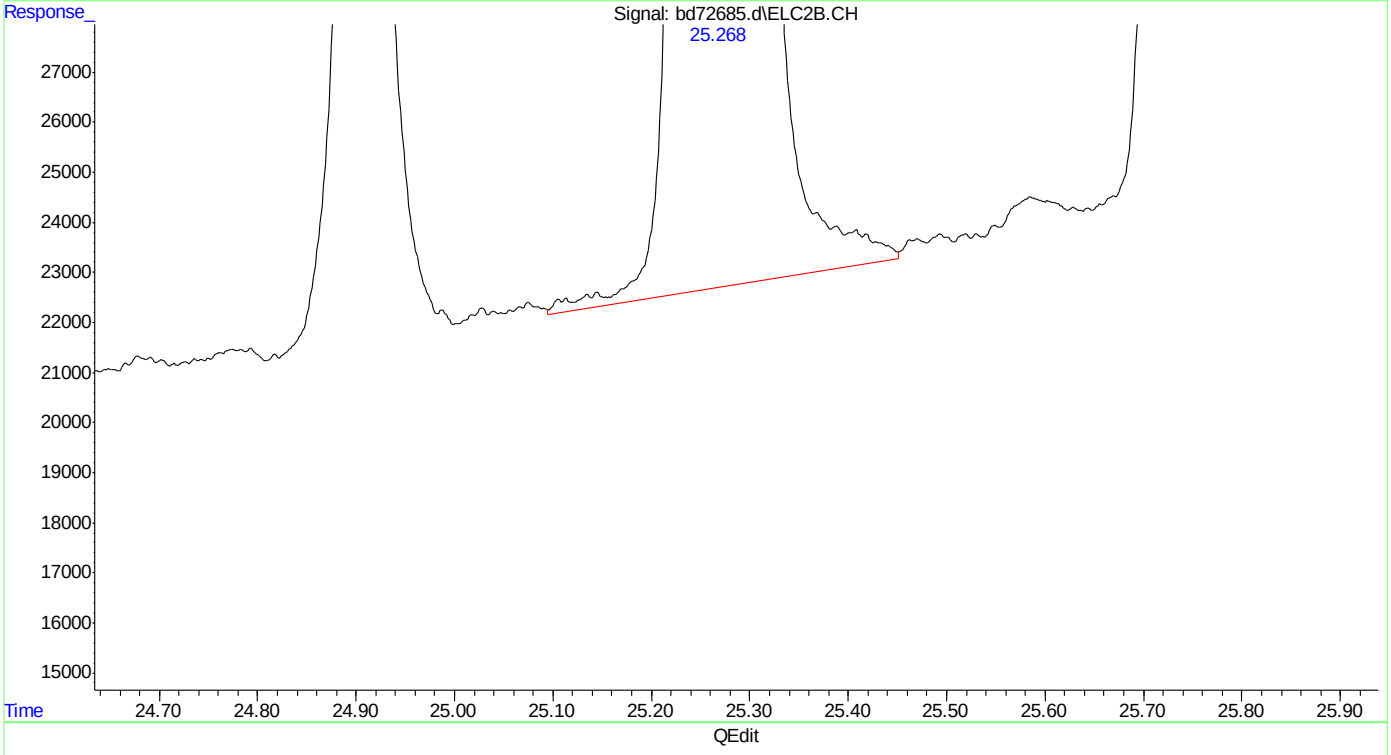
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.269min 10.227 ppb
response 6637163

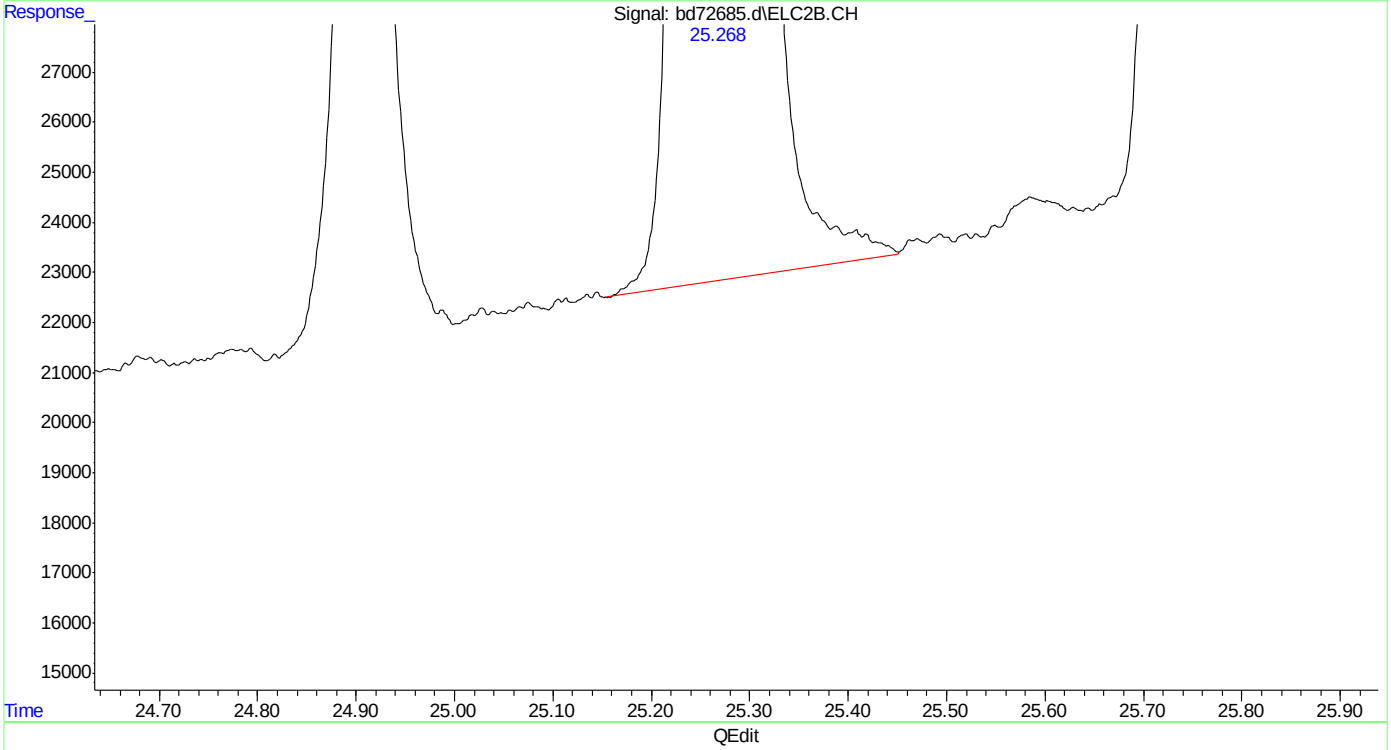
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:49 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.268min 10.179 ppb m
response 6606232

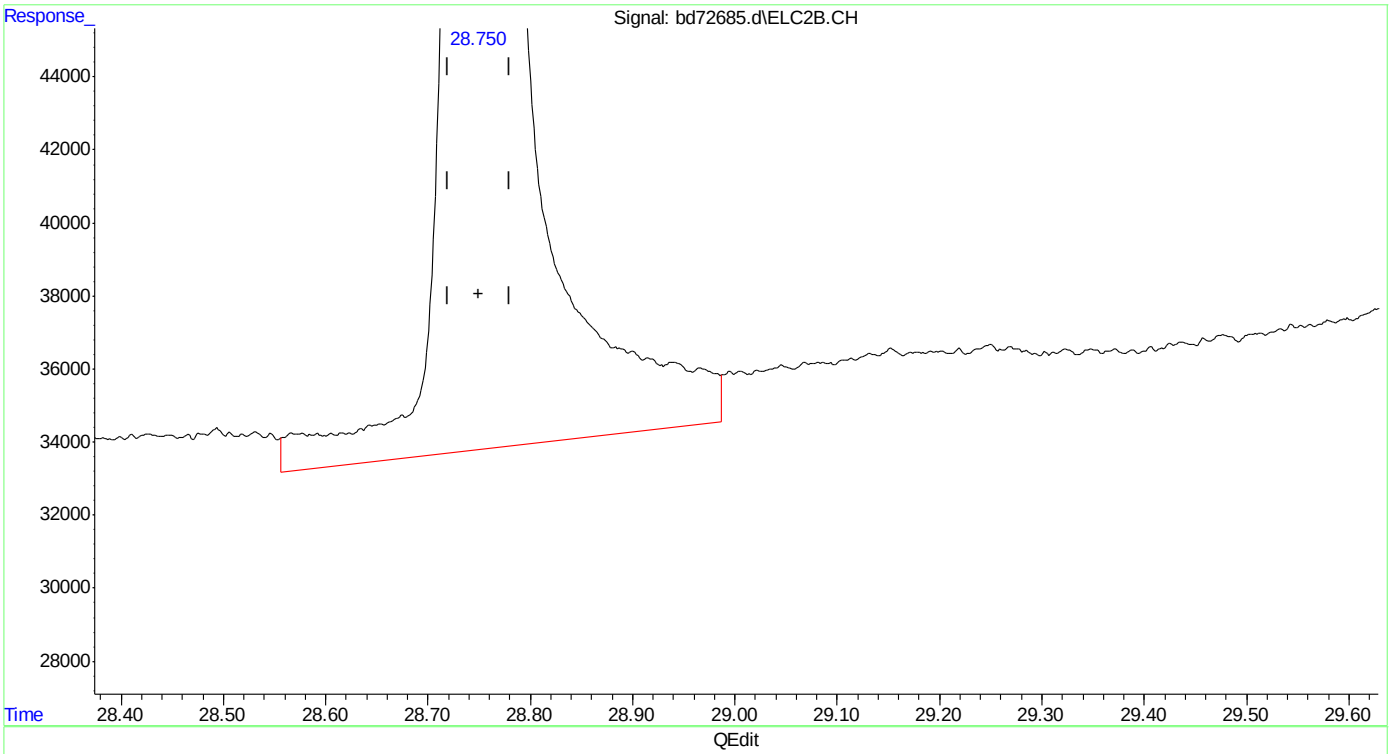
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:55 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.751min 9.263 ppb
response 3113386

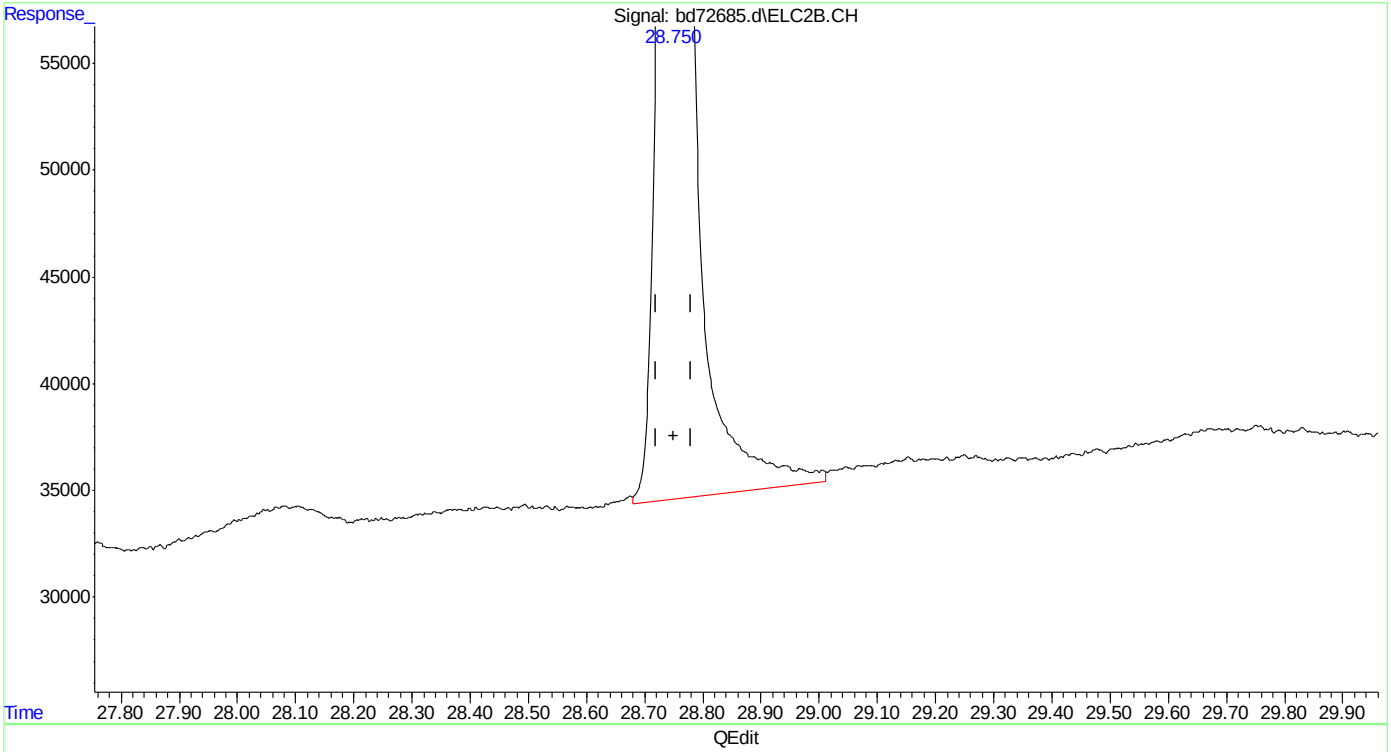
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.750min 8.644 ppb m
response 2905228

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:33:35 2016

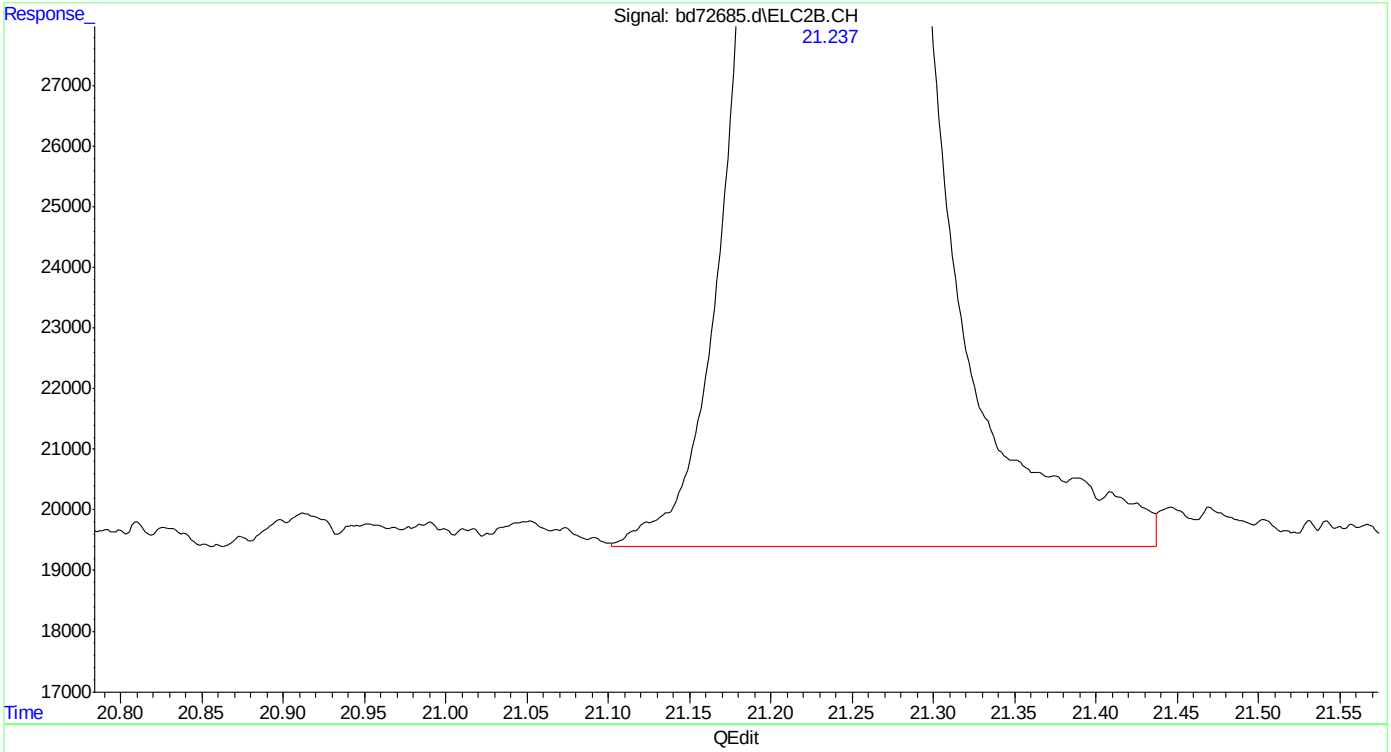
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
21.238min 10.735 ppb
response 2212042

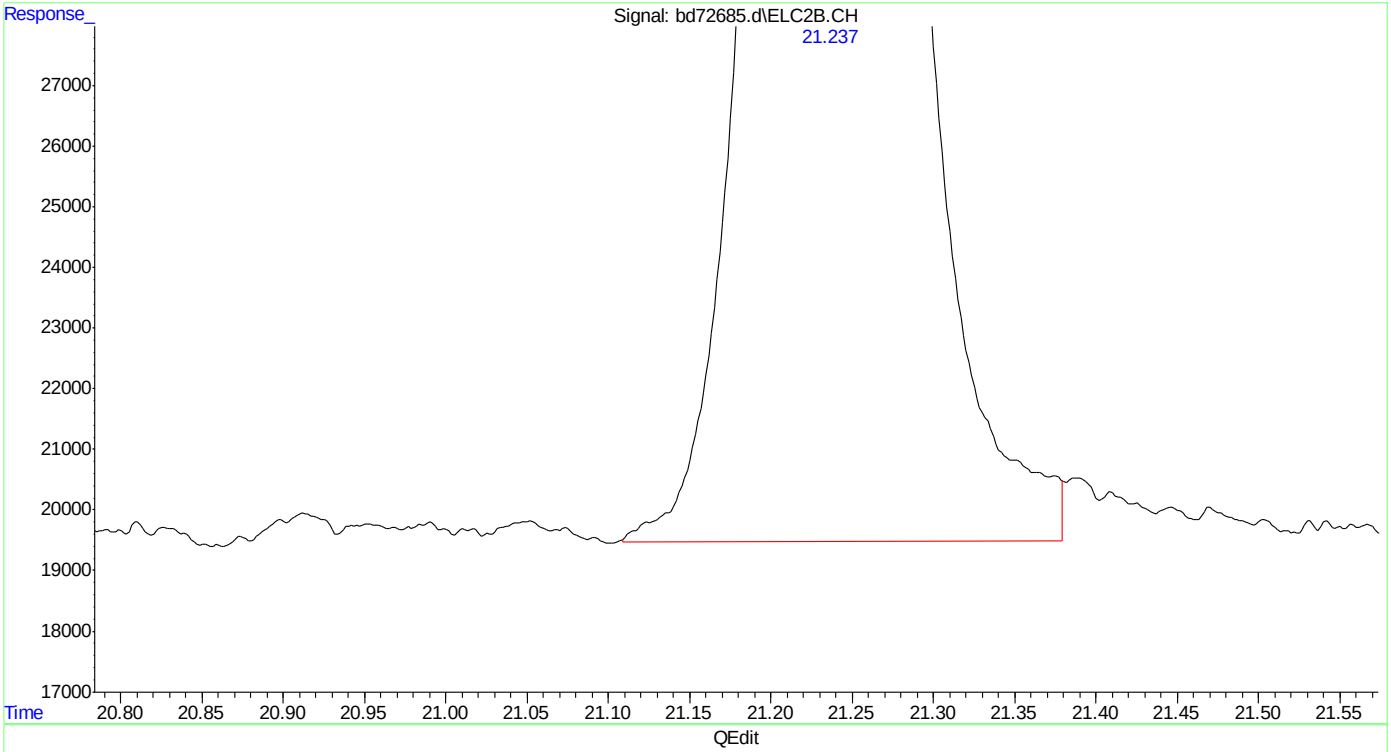
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
21.237min 10.531 ppb m
response 2170174

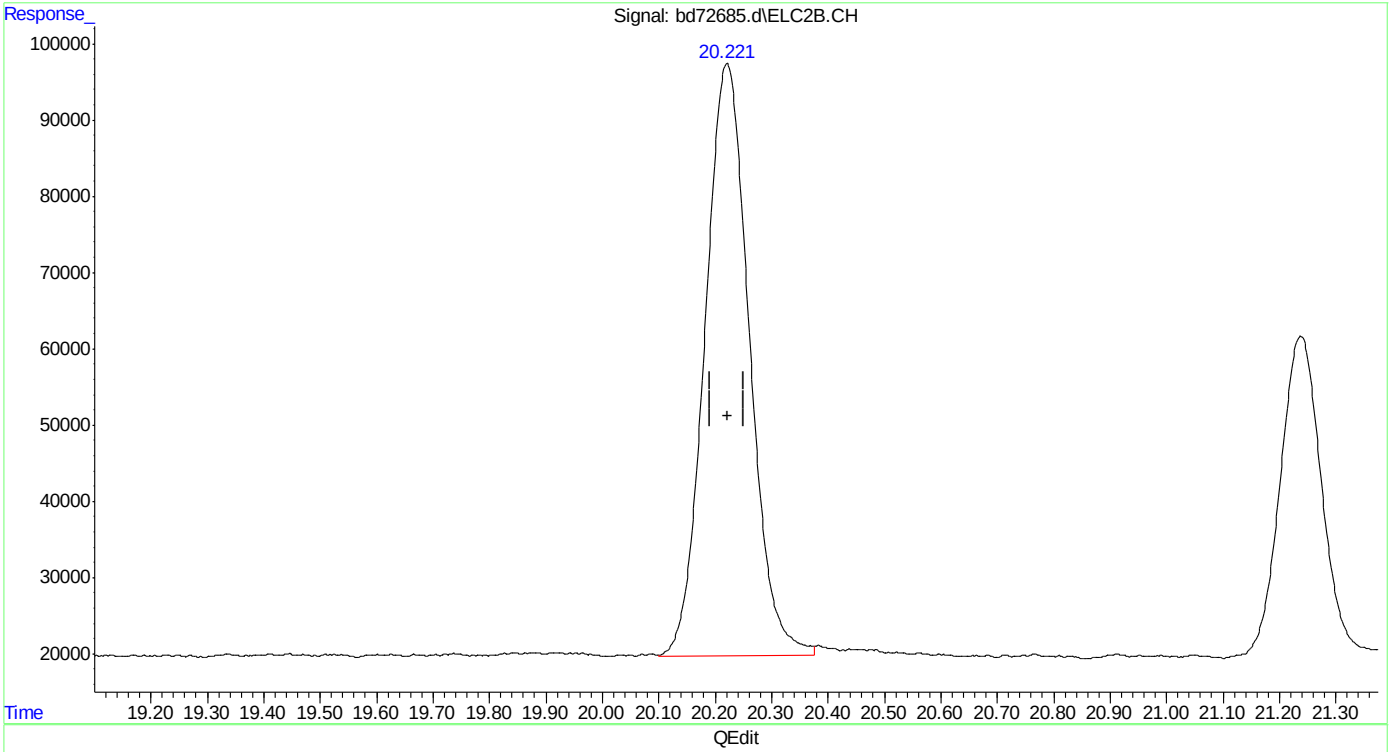
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
20.221min 9.801 ppb m
response 4236945

(+) = Expected Retention Time

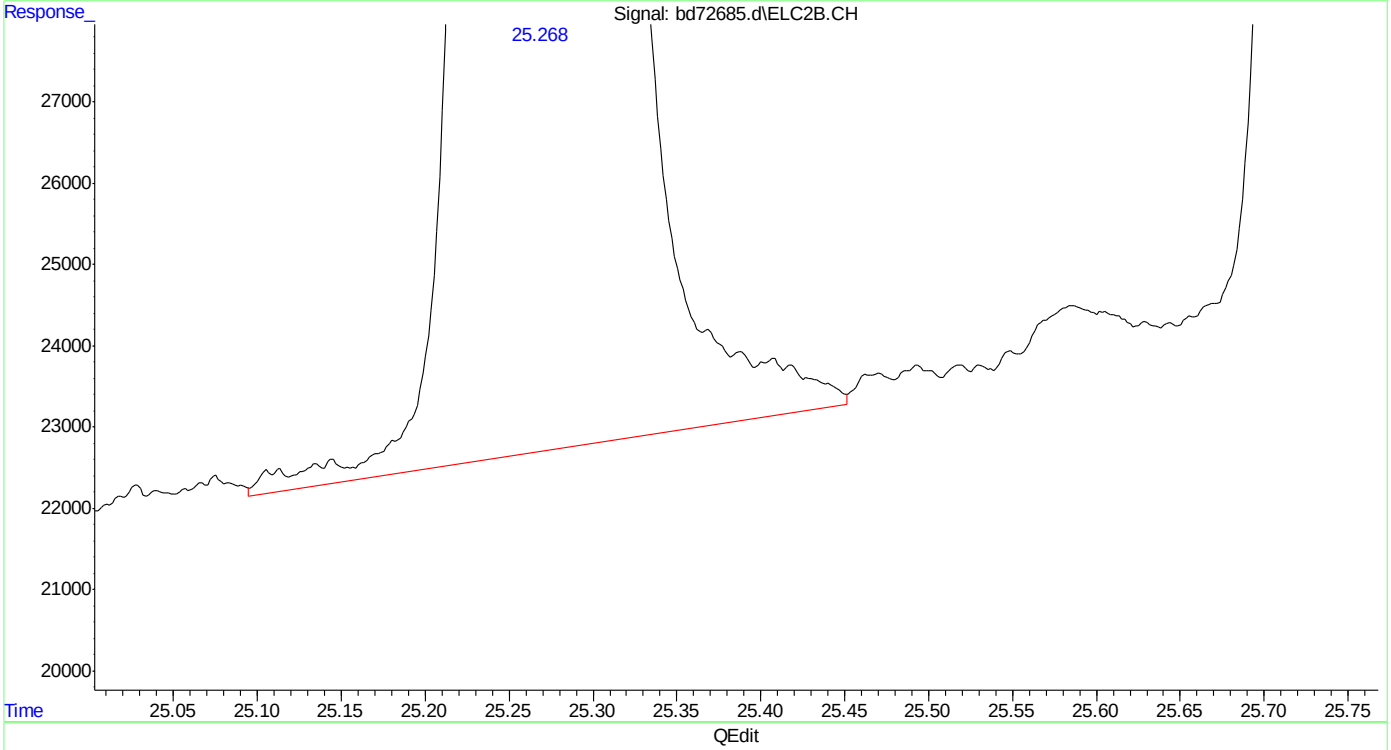
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.269min 10.123 ppb
response 6637163

(+) = Expected Retention Time

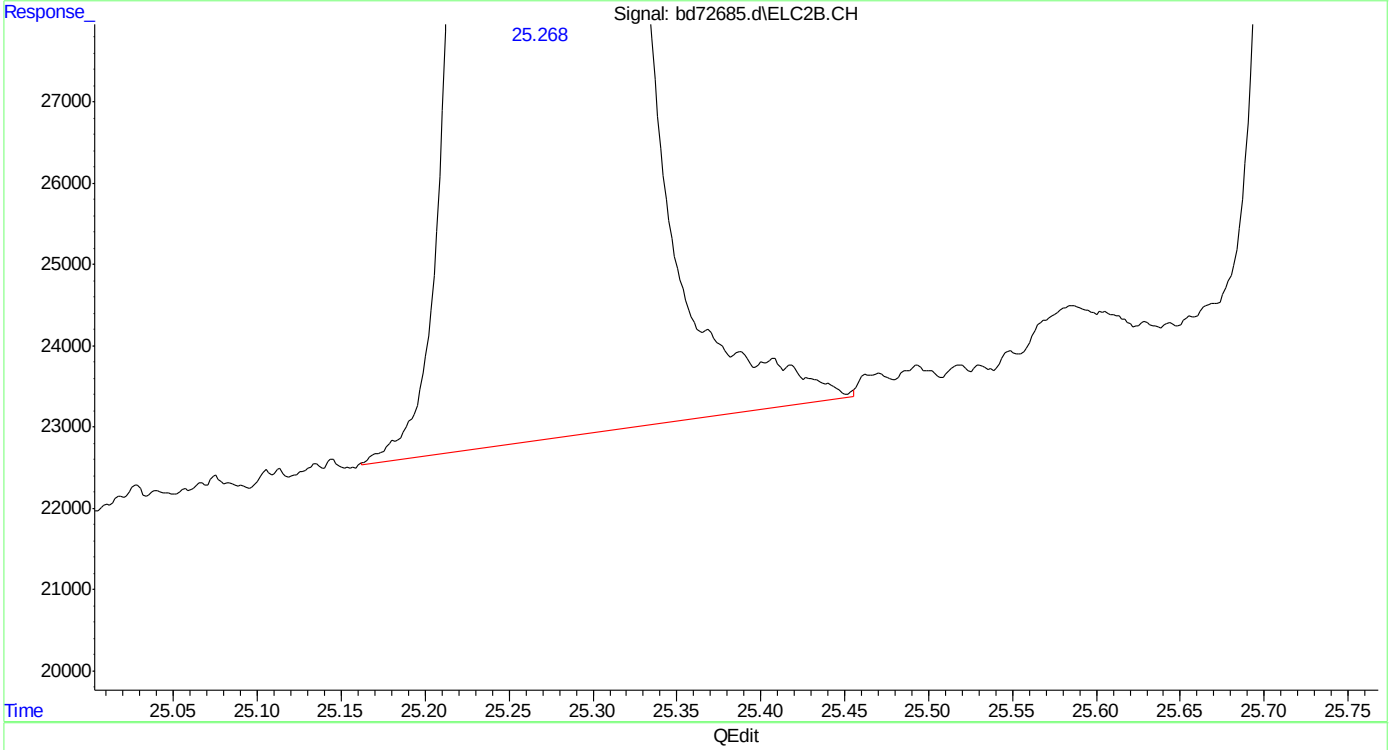
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.268min 10.076 ppb m
response 6605929

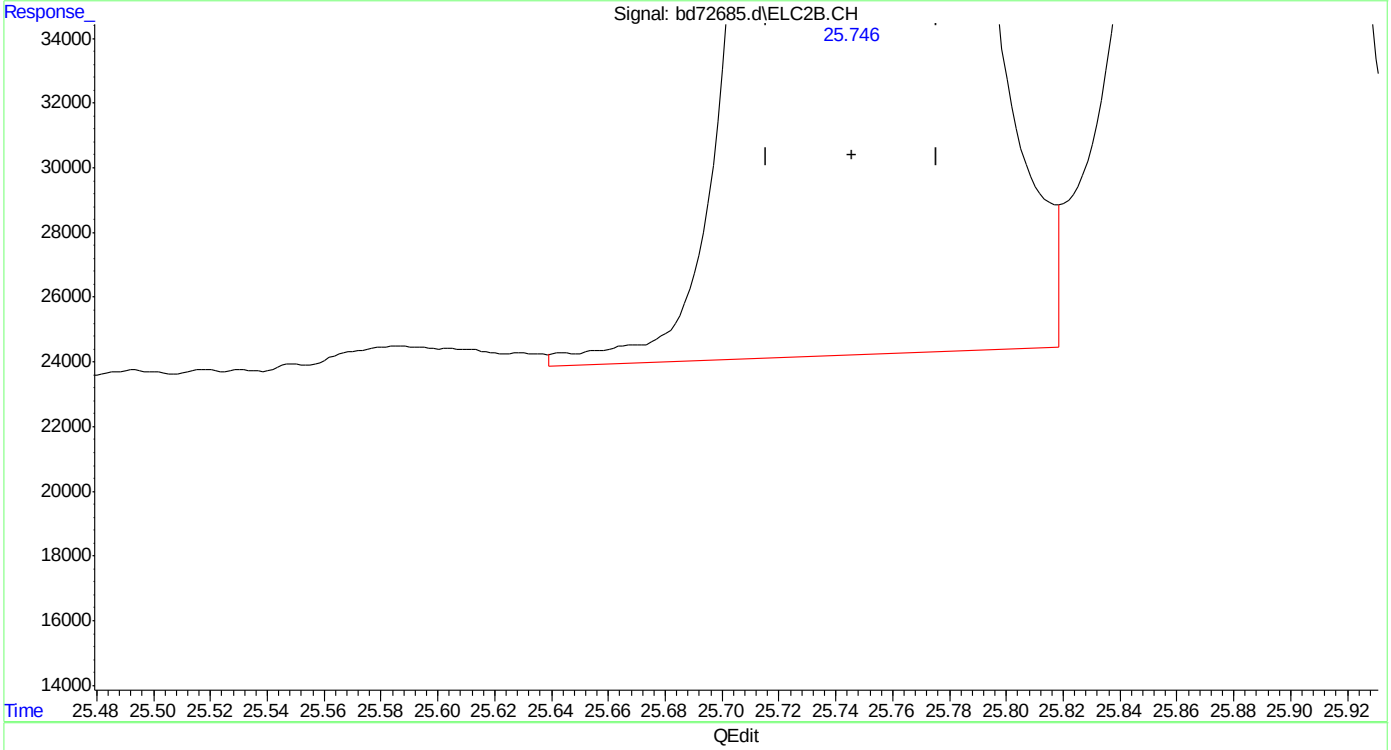
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.747min 9.849 ppb
response 4534824

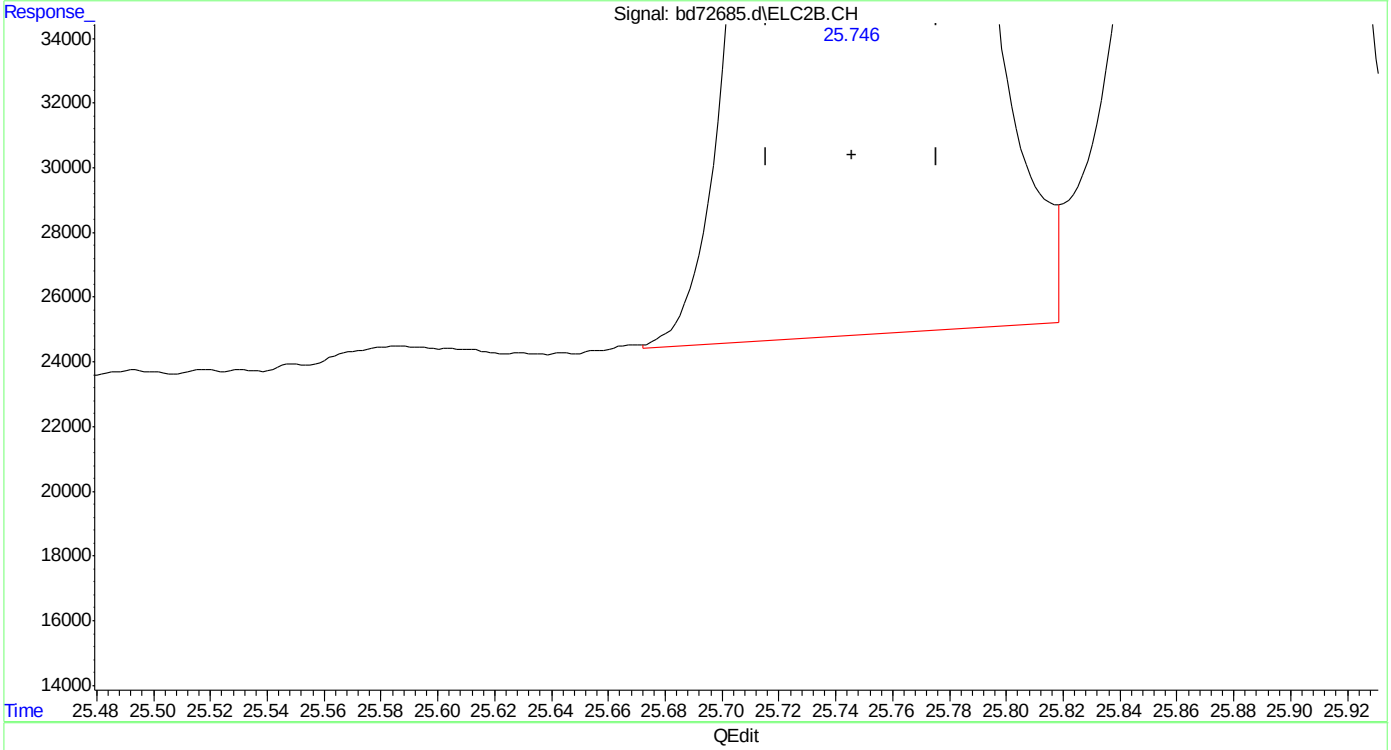
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.746min 9.727 ppb m
response 4478298

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:46 2016

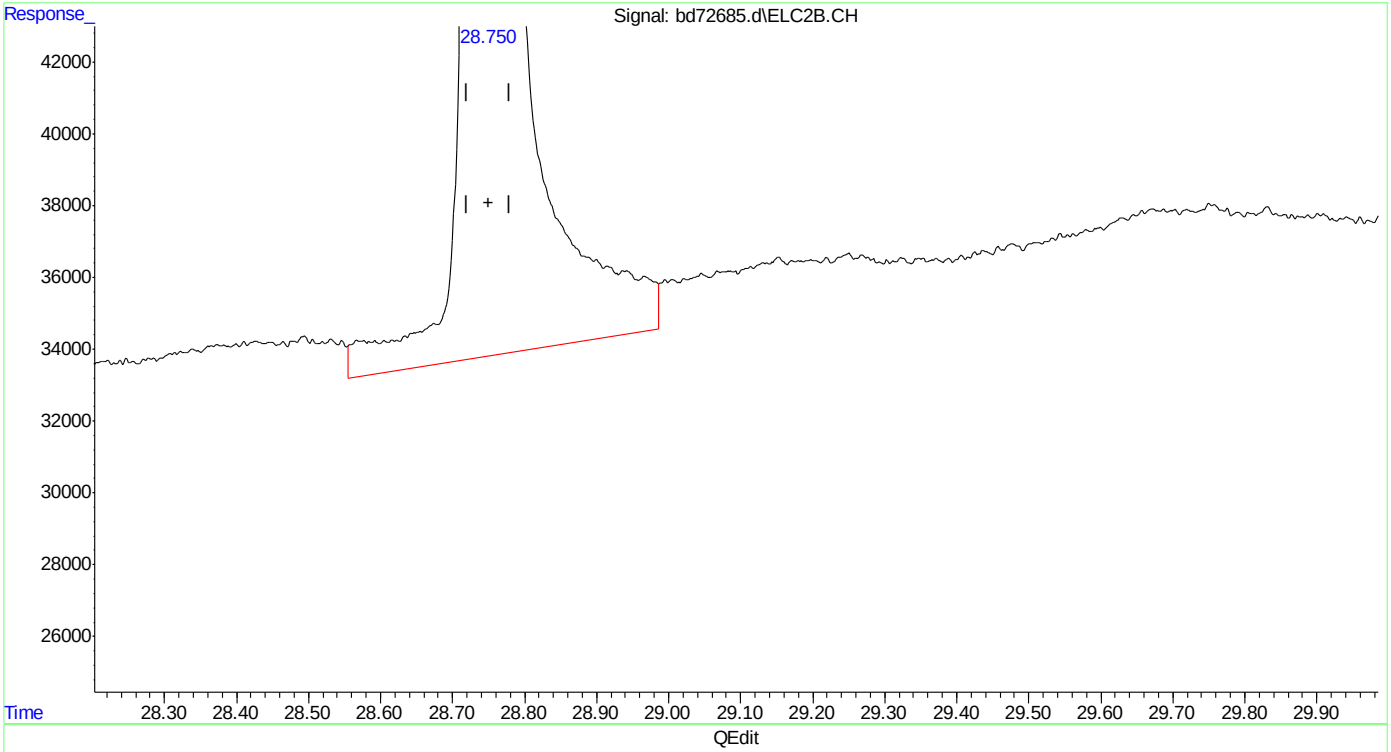
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.751min 10.162 ppb
response 3113386

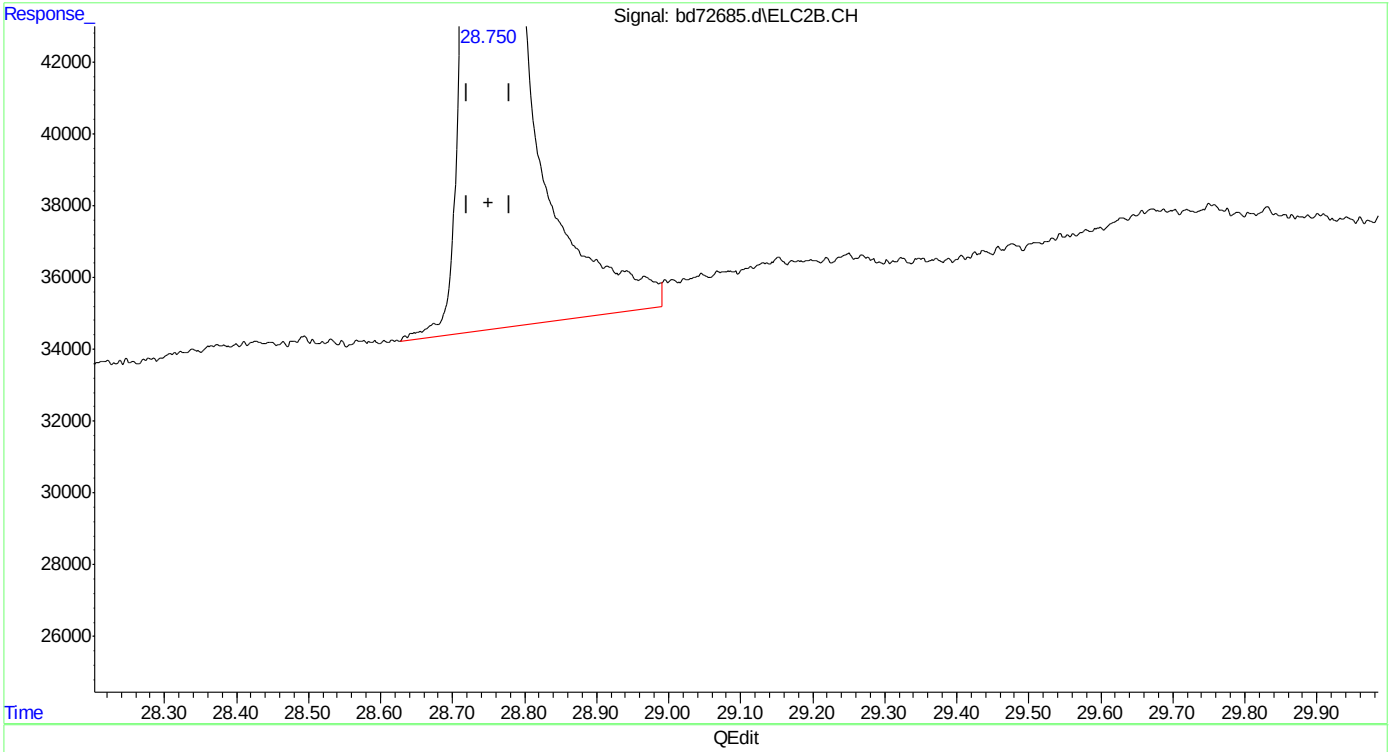
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.750min 9.536 ppb m
response 2921622

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:58 2016

SGS ACCUTEST MC45969

BD72686.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri 02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3572-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.422	3688118	5.021 ppb	m
Spiked Amount 50.000		Recovery =	10.04%	
9) s 2,3,4-trifluorotoluene	21.237	2891402	5.093 ppb	m
Spiked Amount 50.000		Recovery =	10.19%	
25) s fluorobenzene #2	16.427	1839983	5.187 ppb	
Spiked Amount 50.000		Recovery =	10.37%	
27) s 2,3,4-trifluorotoluen...	21.239	1093855	5.317 ppb	
Spiked Amount 50.000		Recovery =	10.63%	
Target Compounds				
1) h rt5.5-7	7.470	2723524	4.815 ppb	m
2) h rt7/10	9.920	3084292	4.809 ppb	m
3) mtbe	10.703f	1367206	4.694 ppb	m
4) h rt10/13	15.200	3432971	4.660 ppb	m
5) benzene	15.928	3586407	4.622 ppb	m
8) toluene	20.220	3670681	4.710 ppb	m
11) h rt20/25	22.840	4228618	5.237 ppb	m
13) ethylbenzene	23.172	3725793	4.742 ppb	
14) m,p-xylene	23.307	8126886	9.936 ppb	
15) o-xylene	24.029	3958698	4.801 ppb	
16) h decane	24.930	4869338	5.664 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	4911450	5.095 ppb	
18) 1,2,4-trimethylbenzene	25.747	4259354	4.888 ppb	m
19) h butylcyclohexane	25.908	4968205	5.418 ppb	m
20) naphthalene	28.751	1655353	3.869 ppb	m
23) mtbe #2	10.684	768191	4.929 ppb	m
24) benzene #2	15.932	2284991	4.901 ppb	m
26) toluene #2	20.221	2057654	4.798 ppb	
28) ethylbenzene #2	23.171	1919162	4.902 ppb	
29) m,p-xylene #2	23.307	4695443	9.846 ppb	
30) o-xylene #2	24.029	2037337	4.986 ppb	
31) t 1,3,5-trimethylbenzen...	25.270	3360107	5.125 ppb	
32) 1,2,4-trimethylbenzen...	25.747	2257211	4.900 ppb	m
33) naphthalene #2	28.752	1234487	4.022 ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	2258039	4.914 ppb	m

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

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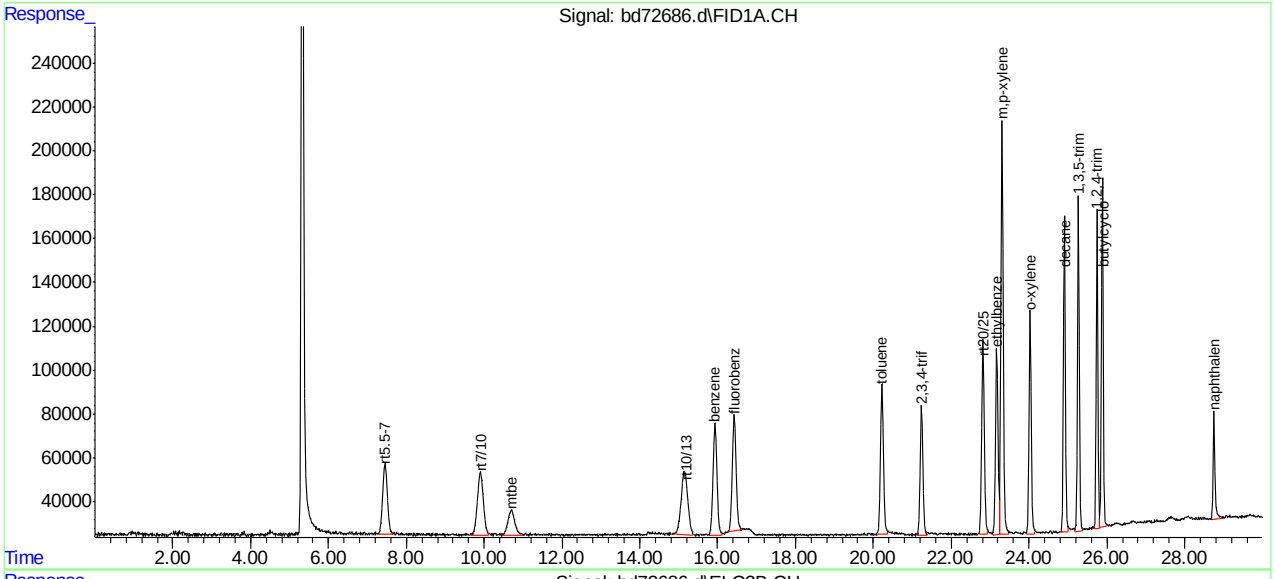
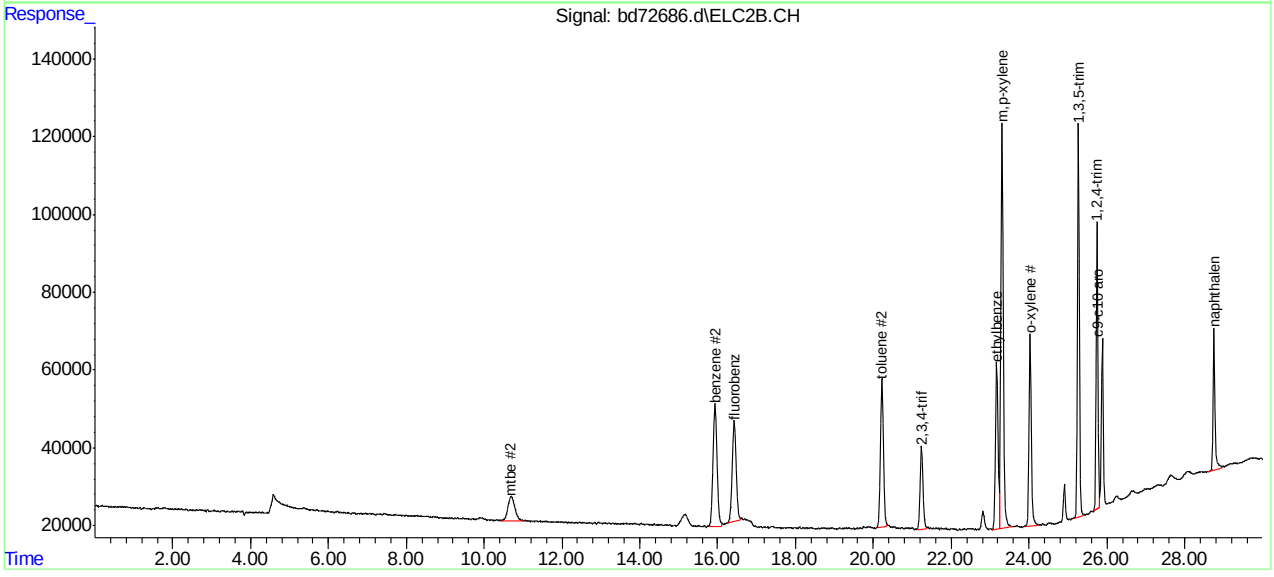
Quantitation Report (QT Reviewed)

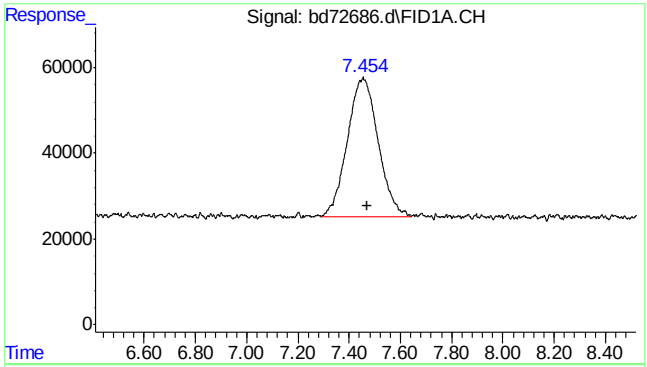
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3572-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

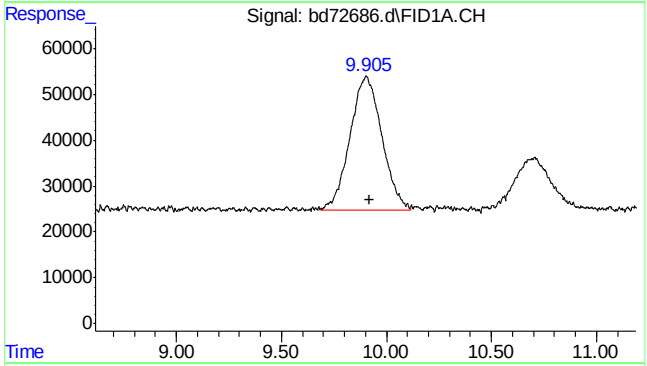






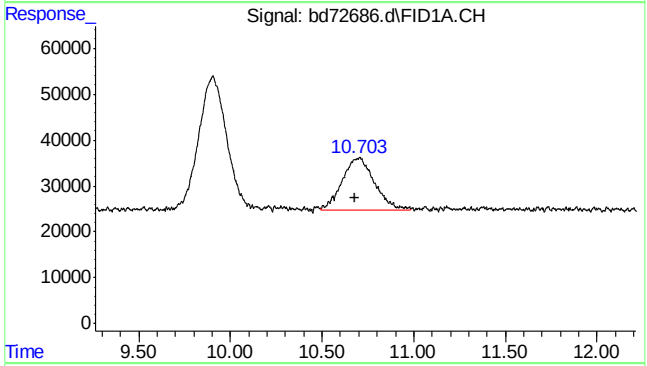
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2723524
Conc: 4.82 ppb m



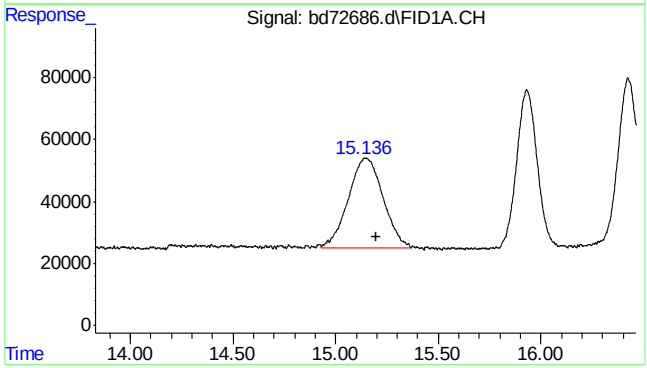
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3084292
Conc: 4.81 ppb m



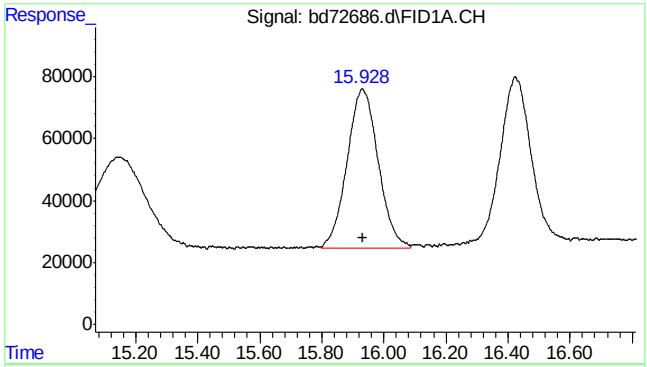
#3 mtbe

R.T.: 10.703 min
Delta R.T.: 0.020 min
Response: 1367206
Conc: 4.69 ppb m



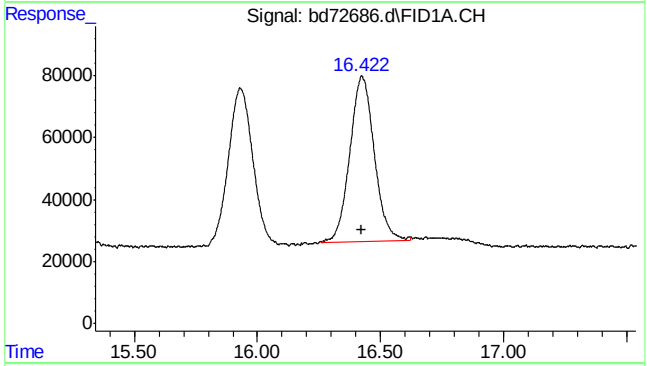
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 3432971
Conc: 4.66 ppb m



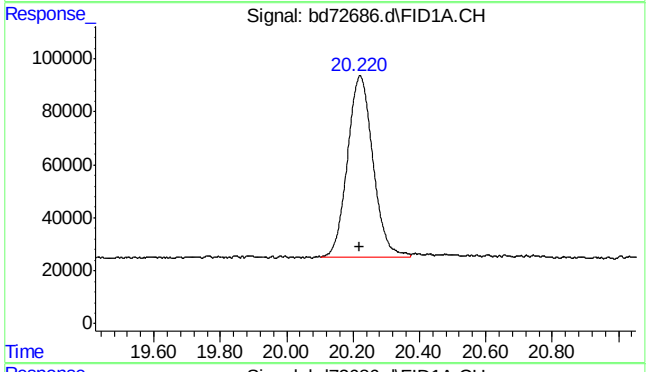
#5 benzene

R.T.: 15.928 min
Delta R.T.: -0.005 min
Response: 3586407
Conc: 4.62 ppb m



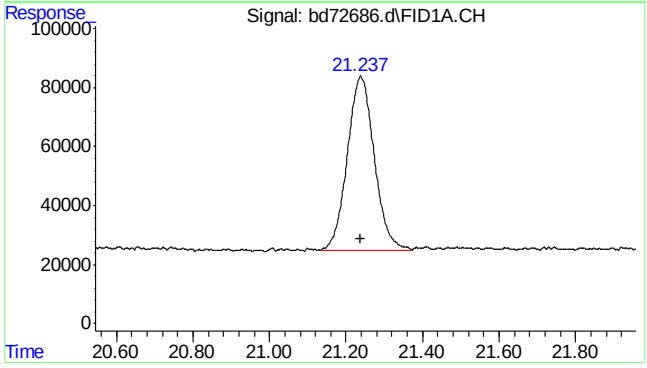
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 3688118
Conc: 5.02 ppb m



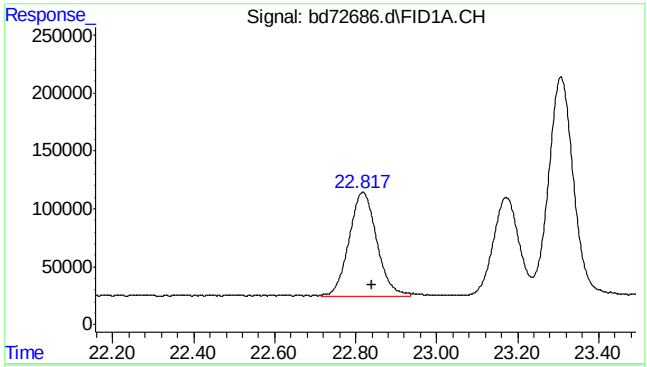
#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 3670681
Conc: 4.71 ppb m



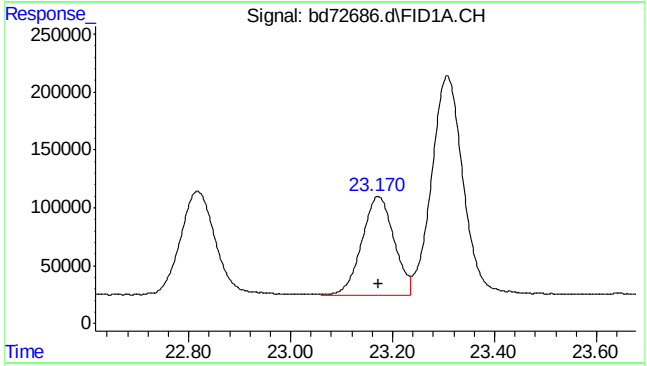
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2891402
Conc: 5.09 ppb m



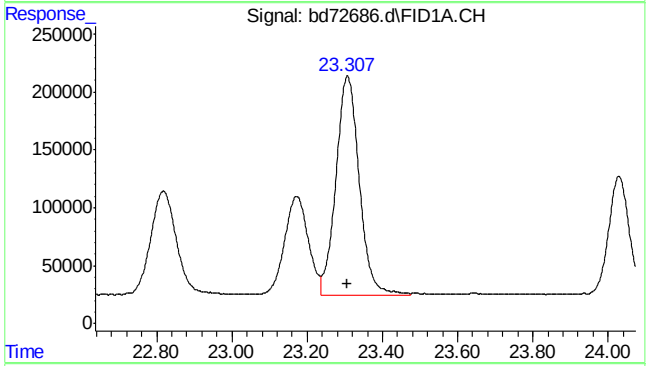
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 4228618
Conc: 5.24 ppb m



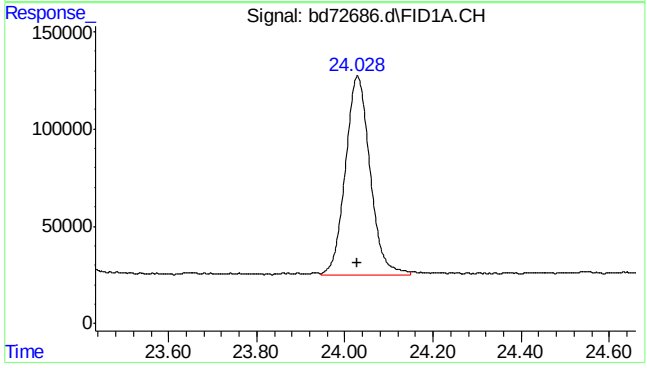
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3725793
Conc: 4.74 ppb



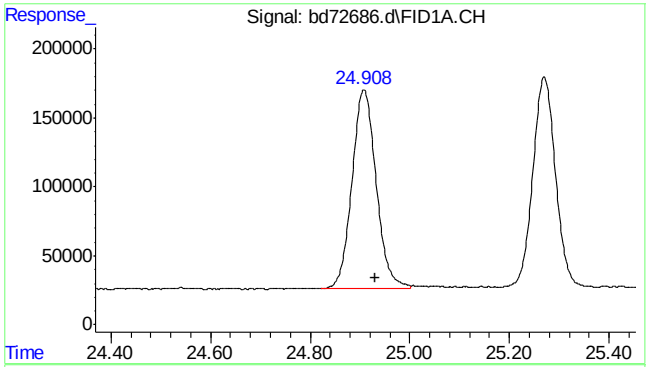
#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 8126886
Conc: 9.94 ppb



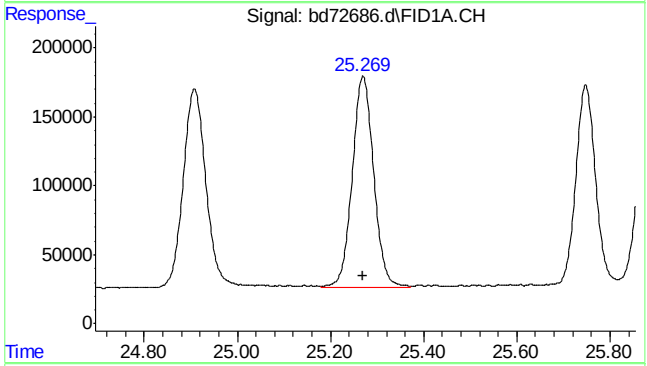
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 3958698
Conc: 4.80 ppb



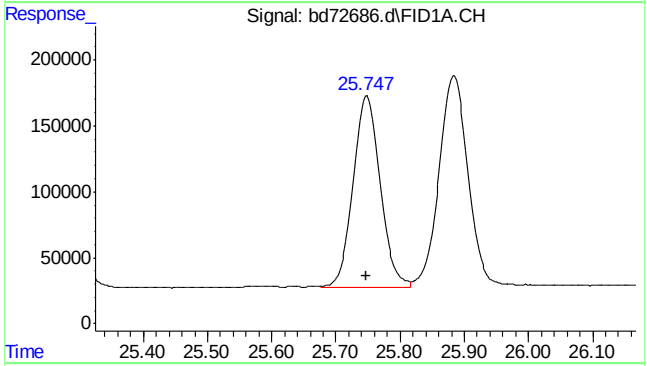
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 4869338
Conc: 5.66 ppb m



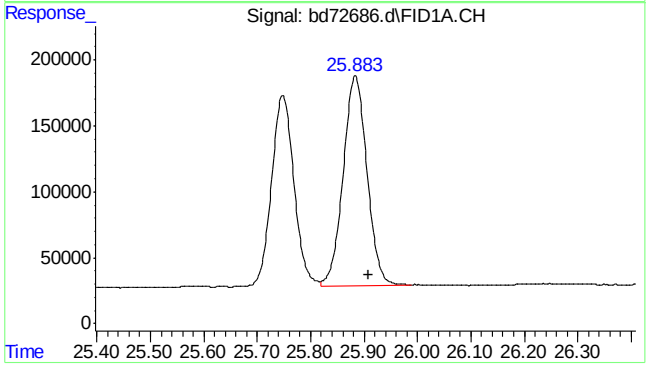
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 4911450
Conc: 5.10 ppb



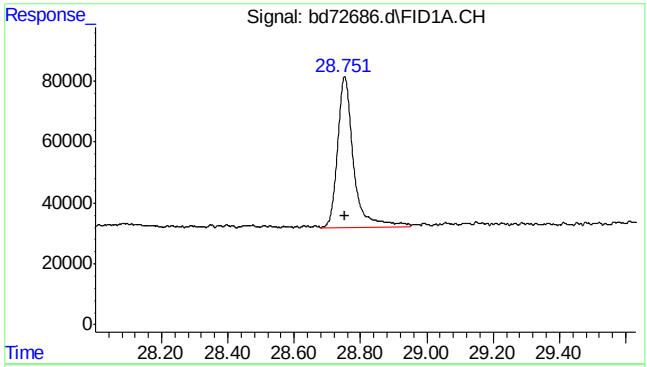
#18 1,2,4-trimethylbenzene

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 4259354
Conc: 4.89 ppb m



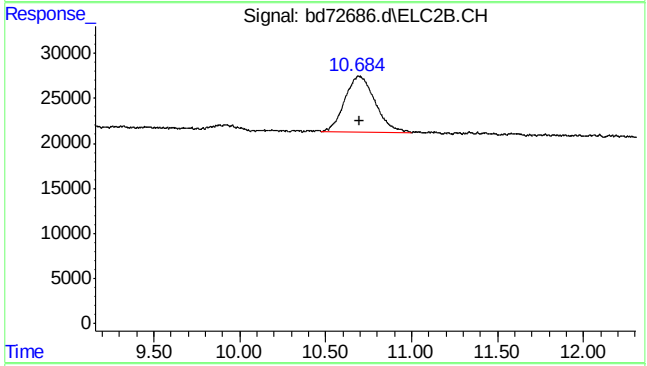
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 4968205
Conc: 5.42 ppb m



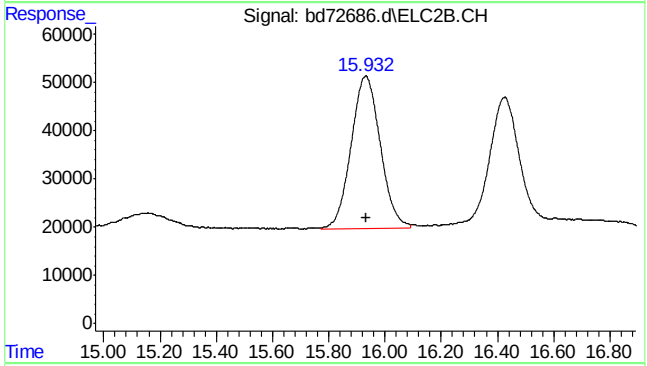
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 1655353
Conc: 3.87 ppb m



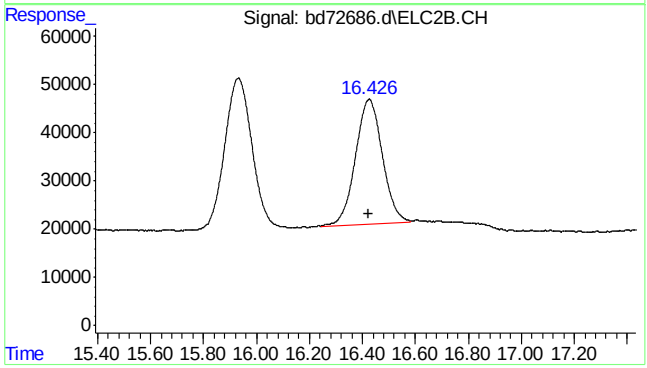
#23 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.011 min
Response: 768191
Conc: 4.93 ppb m



#24 benzene #2

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 2284991
Conc: 4.90 ppb m



#25 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 1839983
Conc: 5.19 ppb

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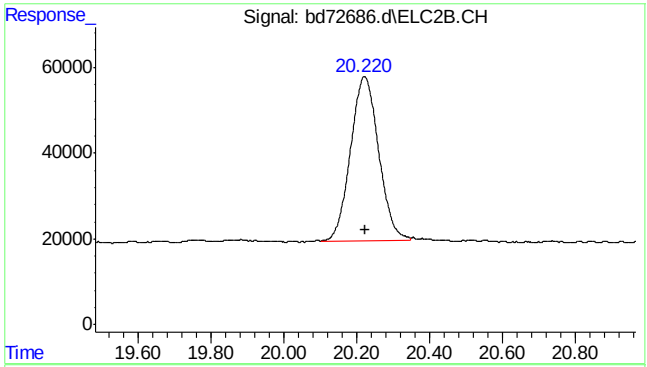
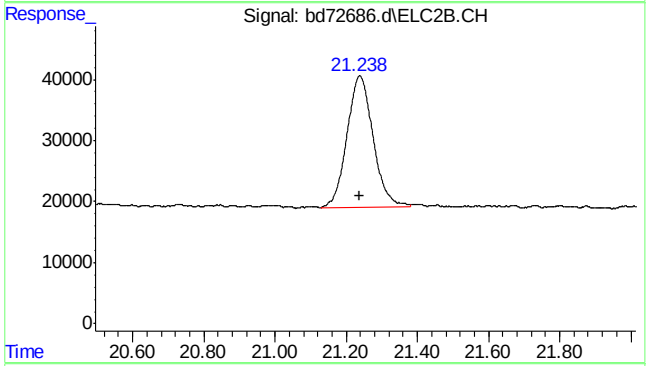


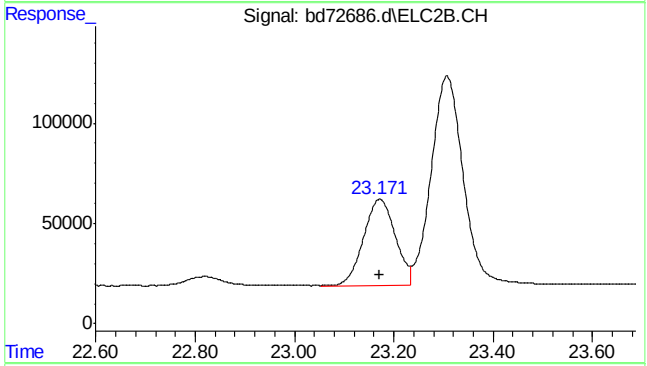
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 2057654
Conc: 4.80 ppb



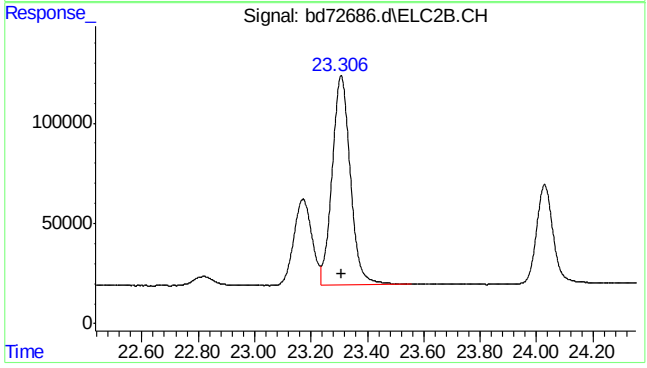
#27 2,3,4-trifluorotoluene #2

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 1093855
Conc: 5.32 ppb



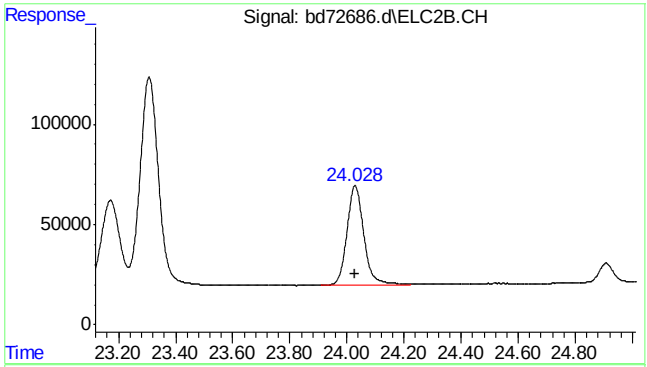
#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 1919162
Conc: 4.90 ppb



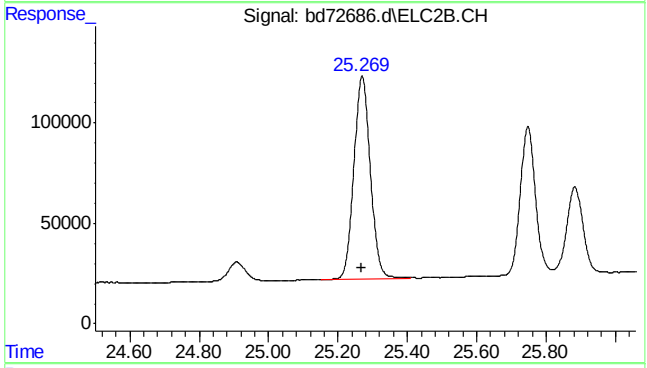
#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 4695443
Conc: 9.85 ppb



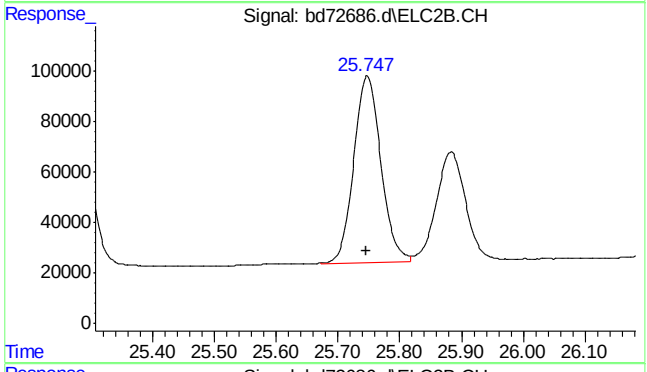
#30 o-xylene #2

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 2037337
Conc: 4.99 ppb



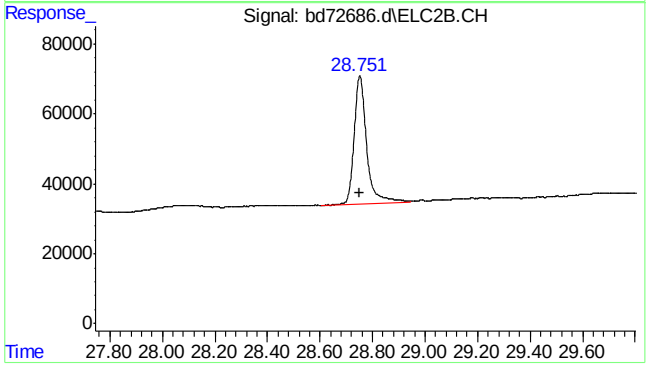
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 3360107
Conc: 5.13 ppb



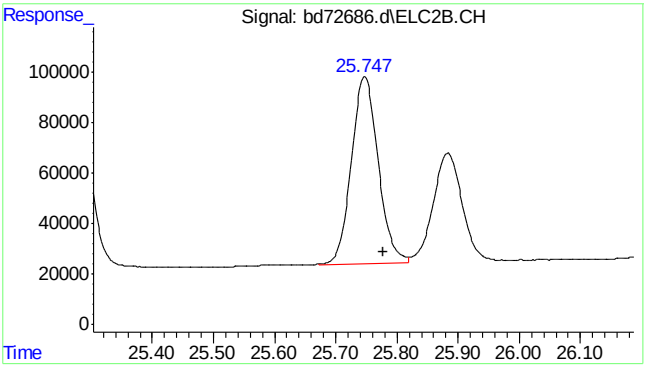
#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 2257211
Conc: 4.90 ppb m



#33 naphthalene #2

R.T.: 28.752 min
Delta R.T.: 0.002 min
Response: 1234487
Conc: 4.02 ppb



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	2258039
Conc:	4.91 ppb m

7.5.7

7

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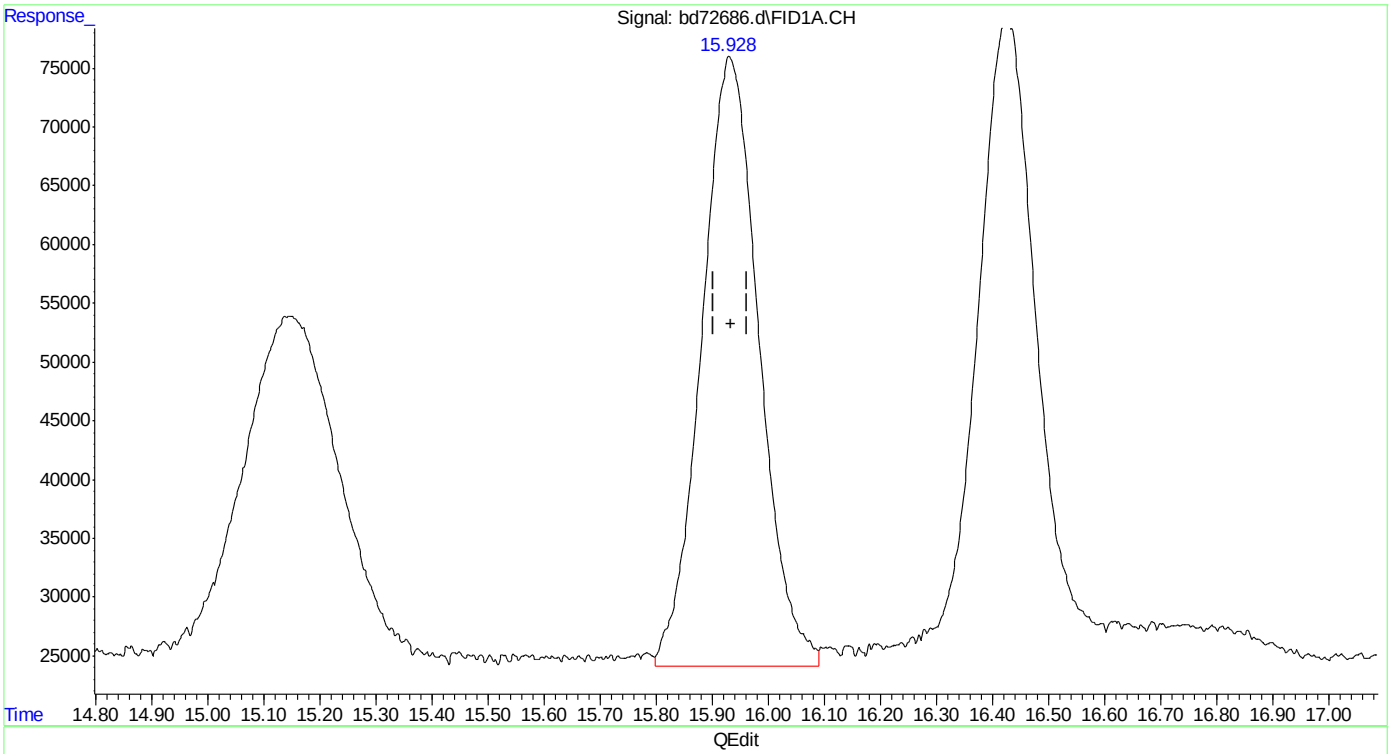
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene
15.930min 4.498 ppb
response 3683528

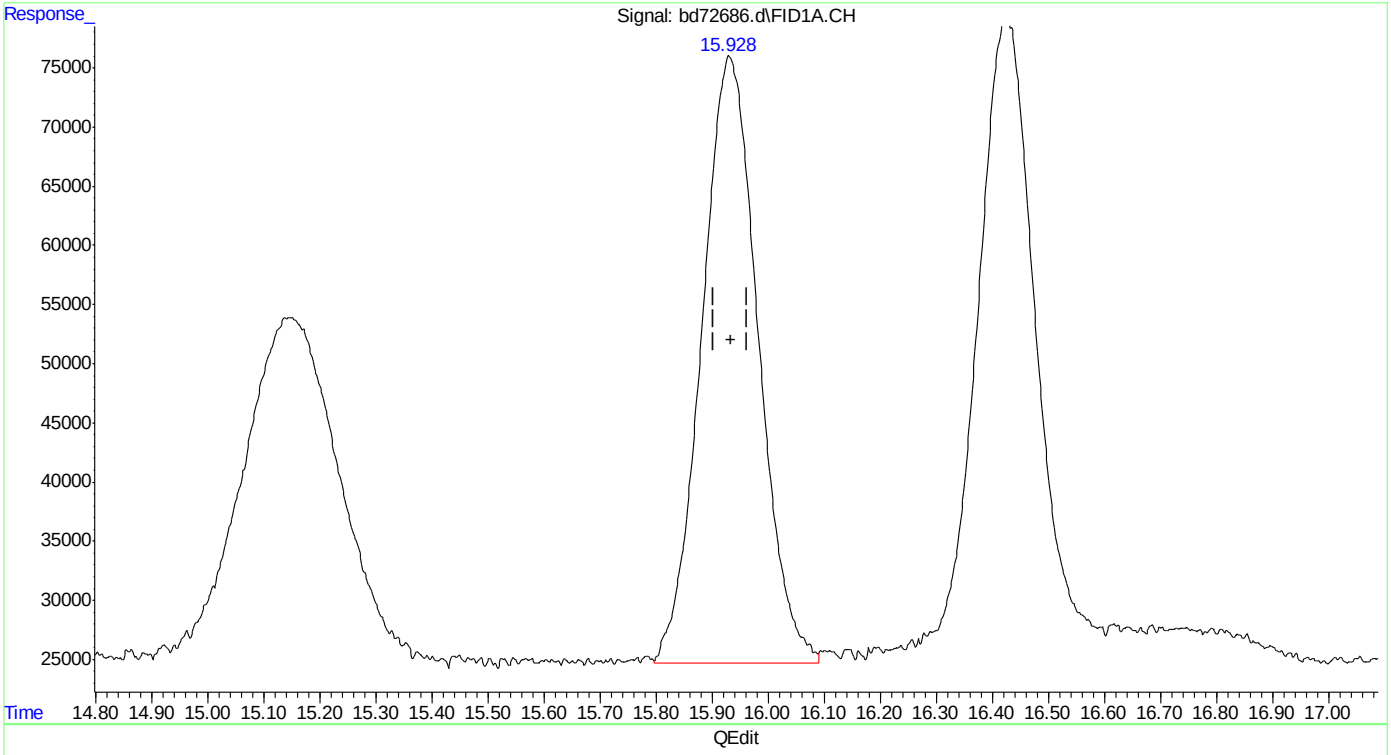
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene
15.928min 4.369 ppb m
response 3578099

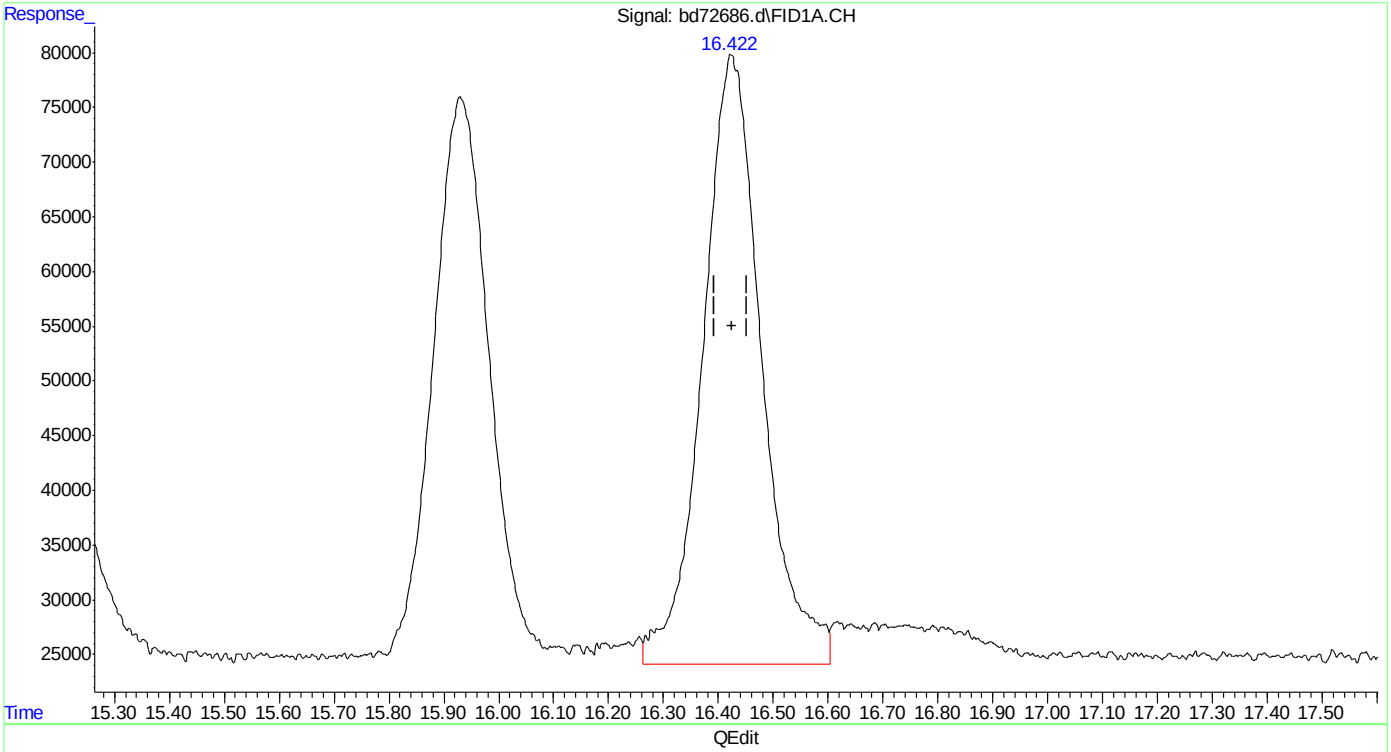
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.423min 5.686 ppb
response 4152408

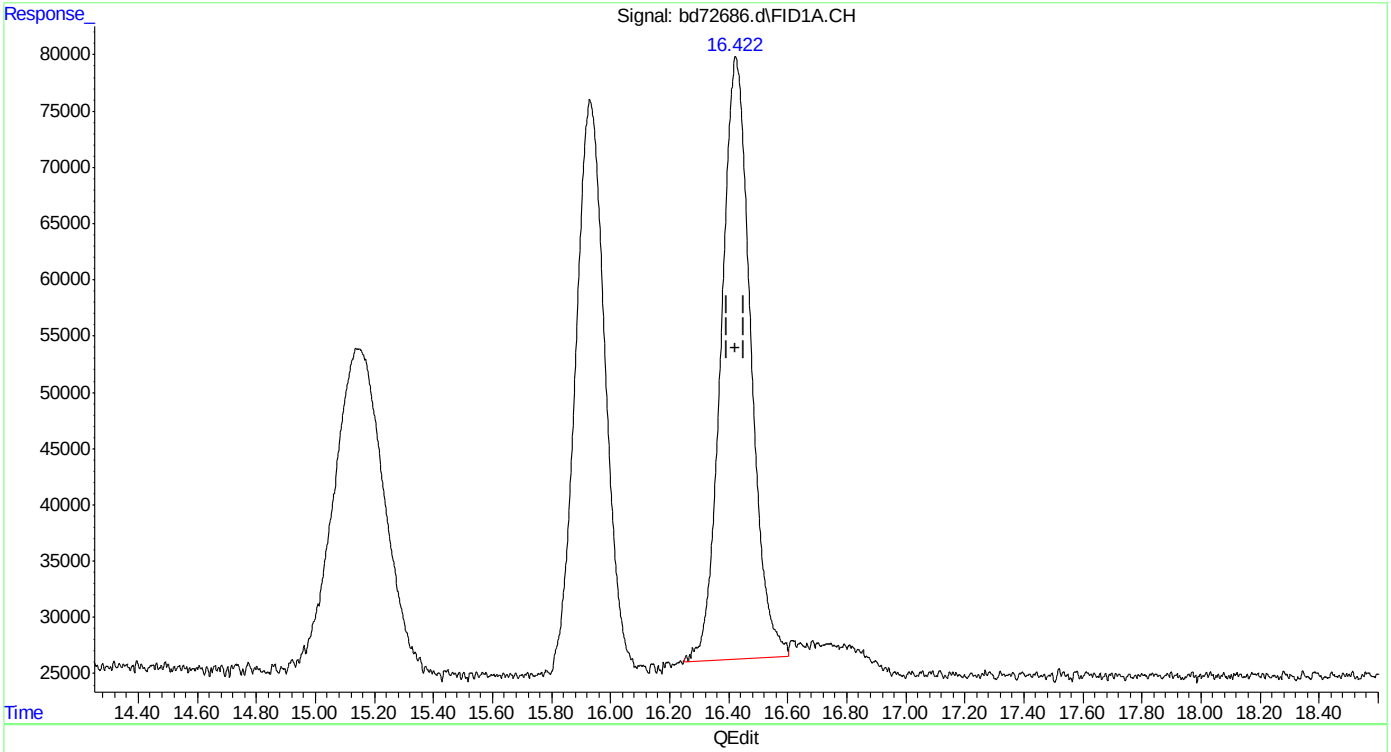
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.422min 5.089 ppb m
response 3716381

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:58 2016

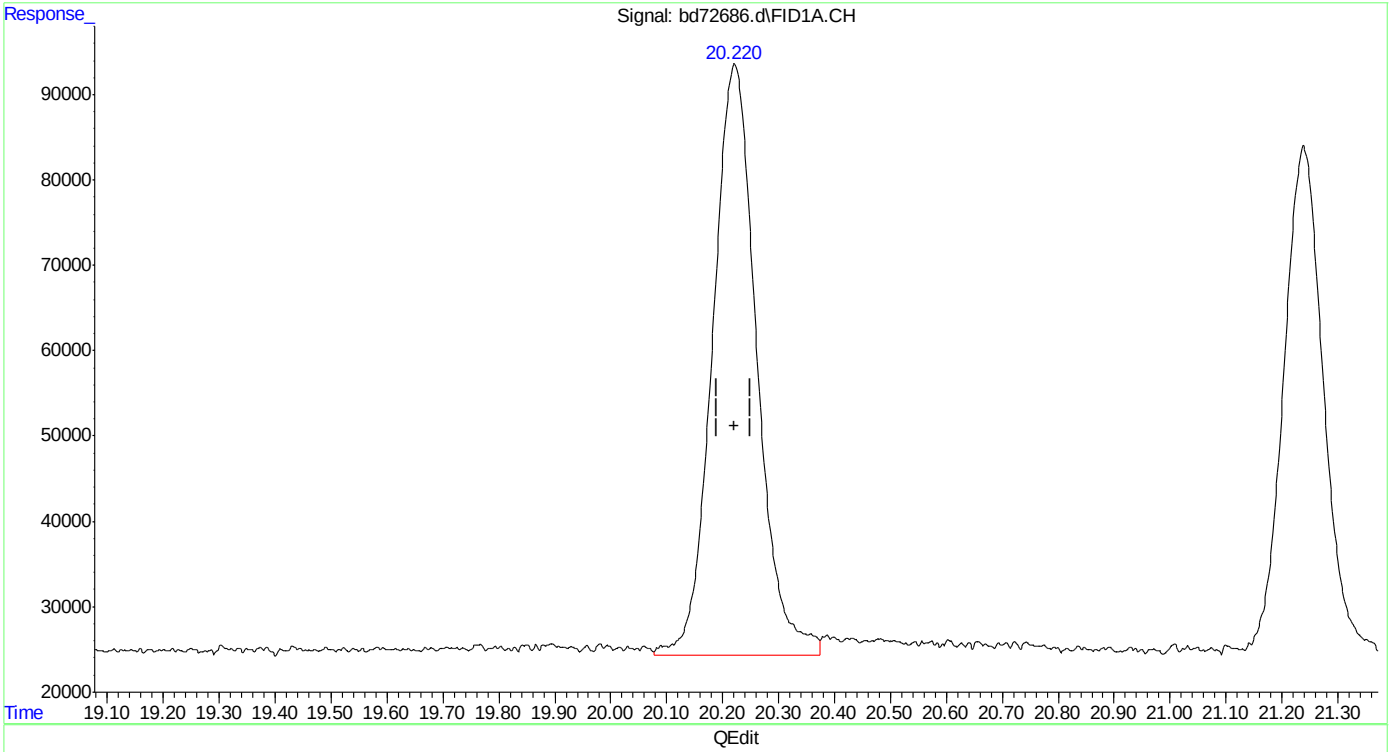
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
20.222min 4.739 ppb
response 3795317

(+) = Expected Retention Time

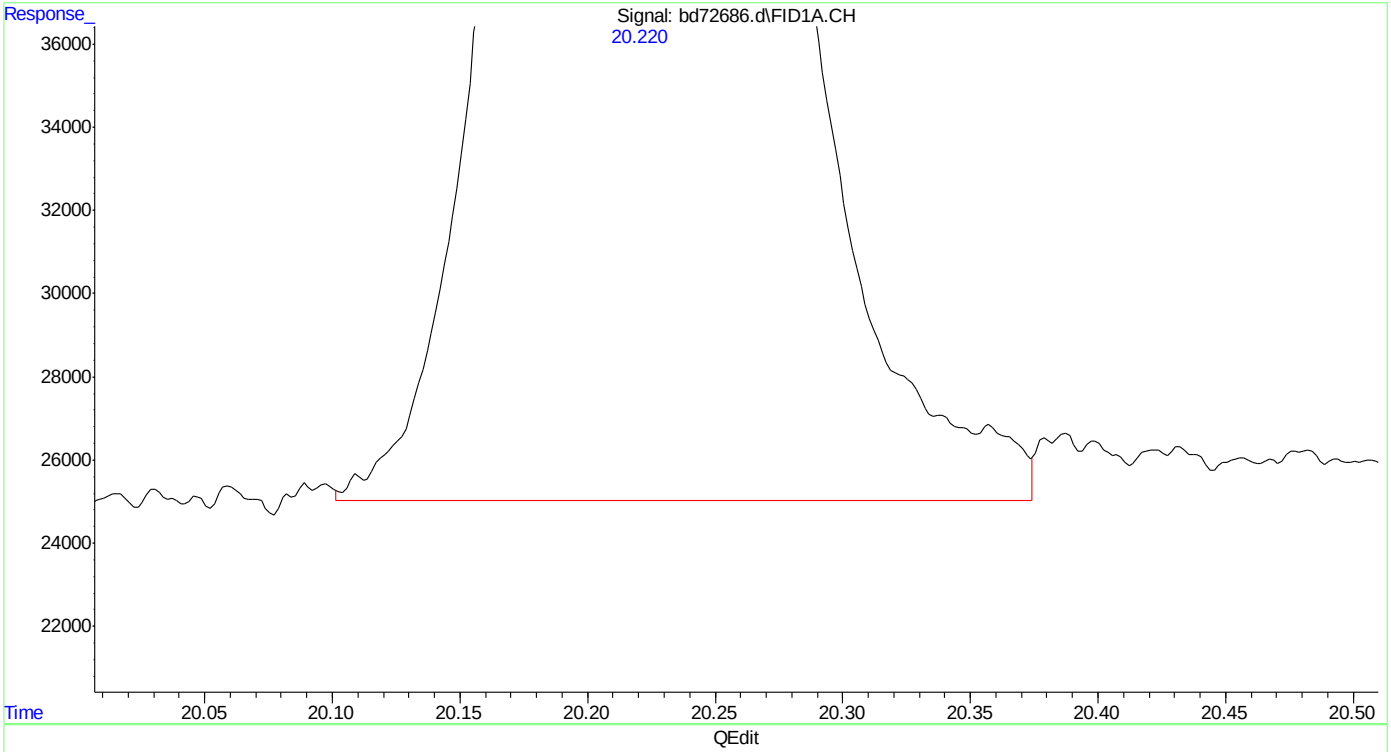
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
20.220min 4.588 ppb m
response 3674356

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:09 2016

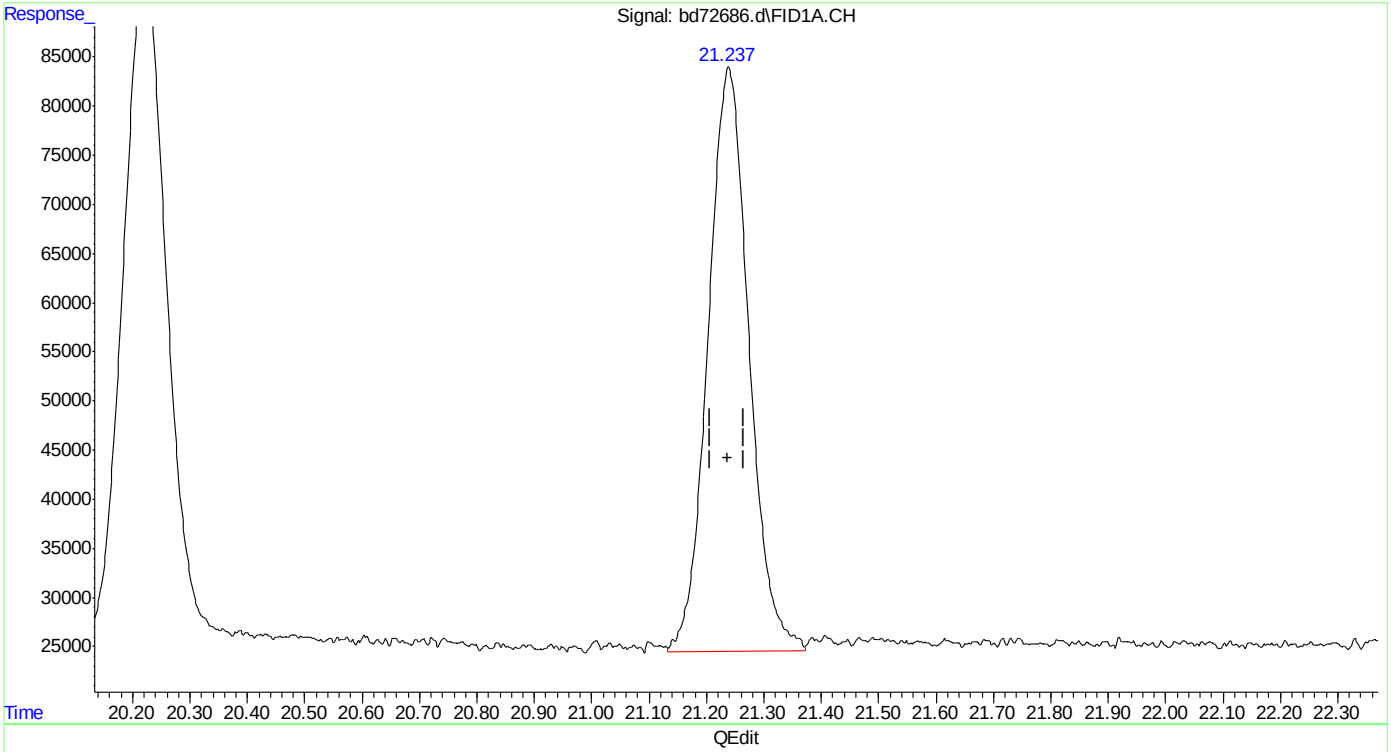
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.239min 6.315 ppb
response 2942188

(+) = Expected Retention Time

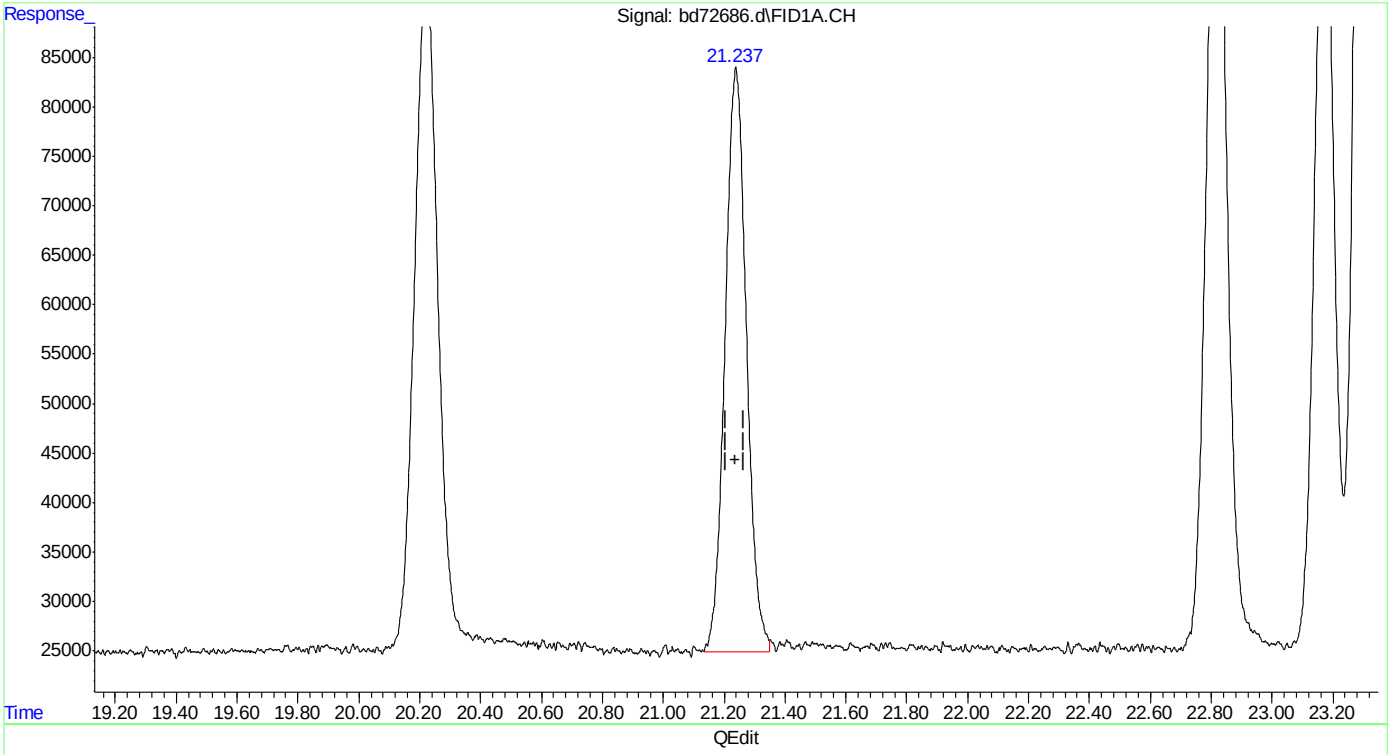
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.237min 6.165 ppb m
response 2872335

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:24 2016

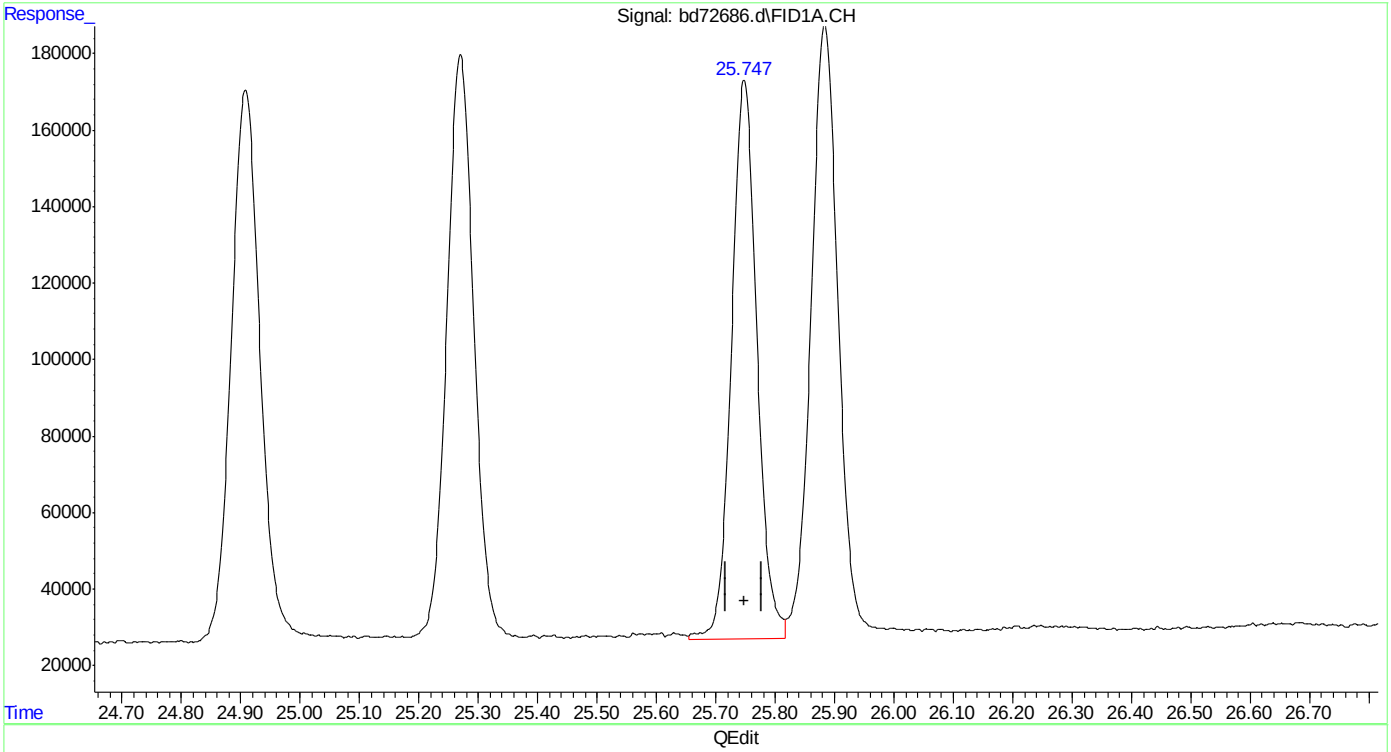
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.748min 4.934 ppb
response 4343408

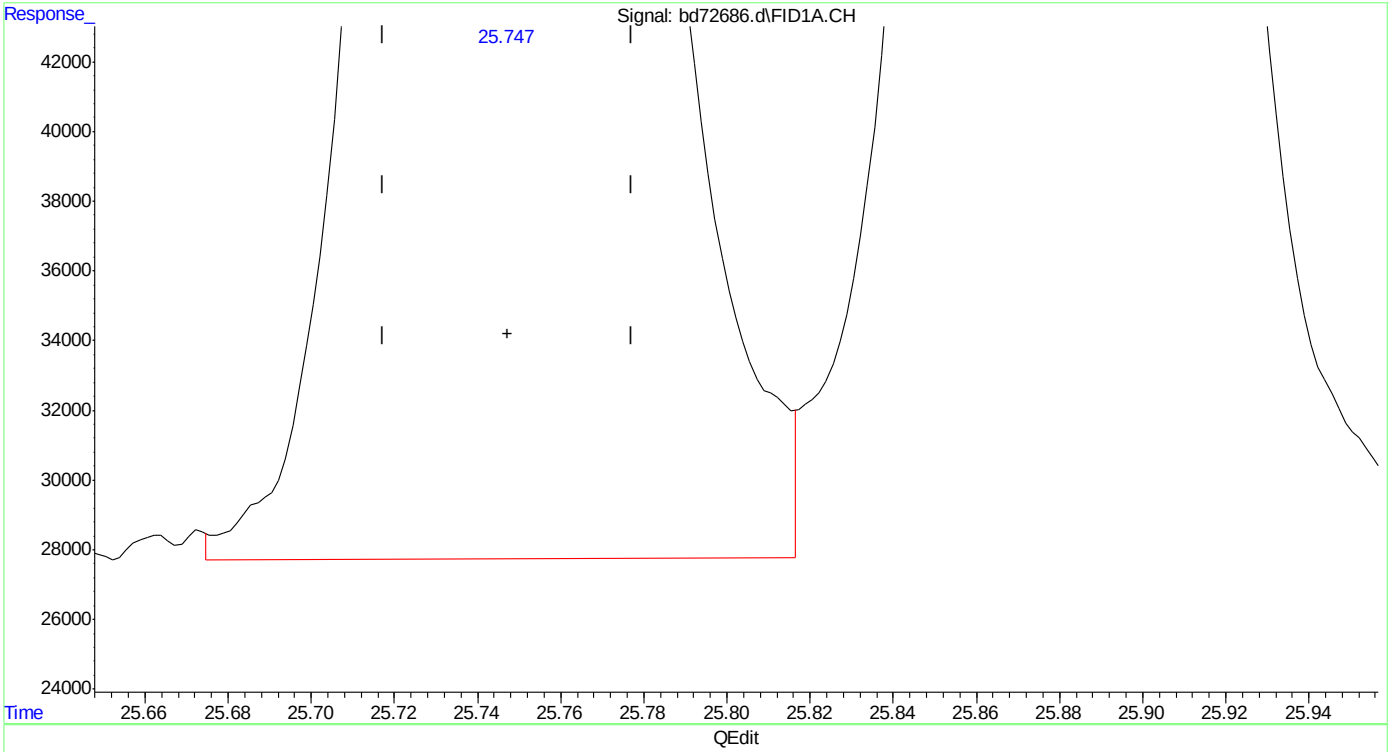
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.747min 4.849 ppb m
response 4268140

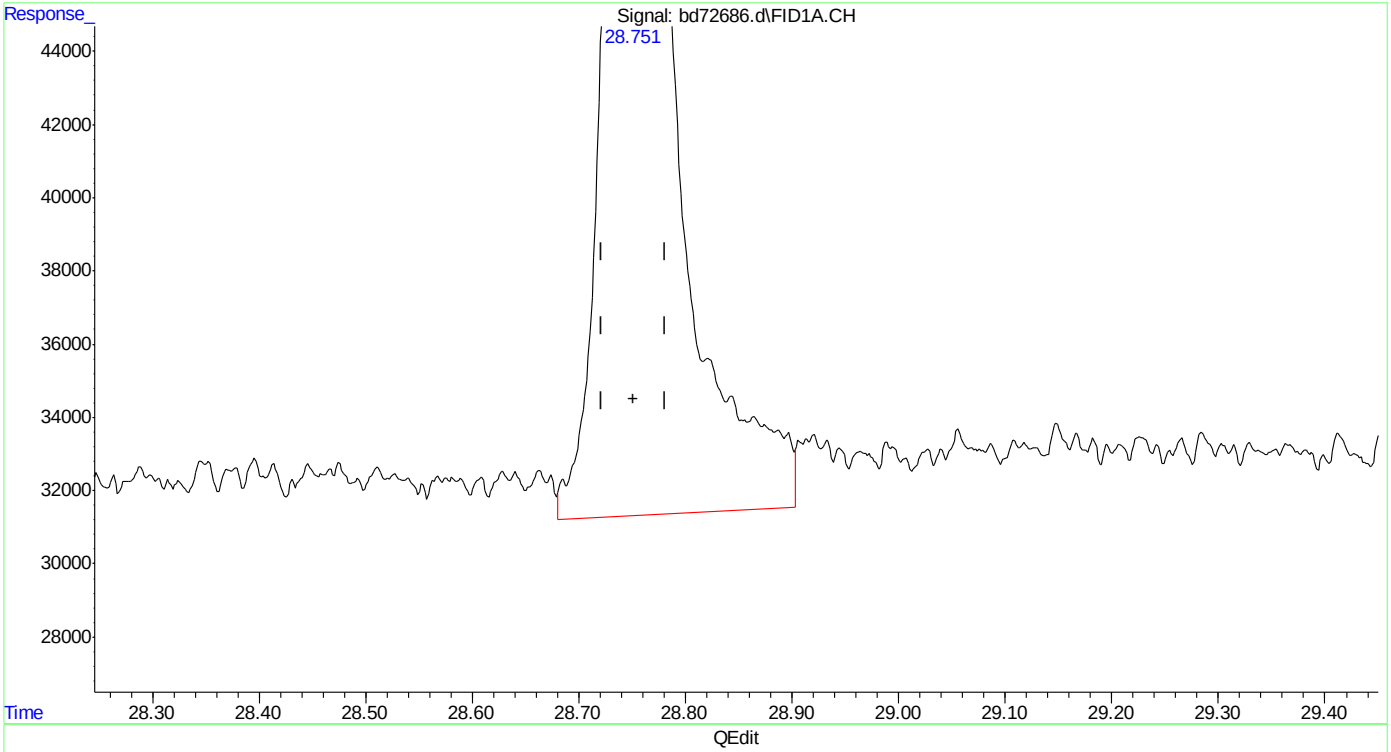
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.752min 3.551 ppb
response 1699084

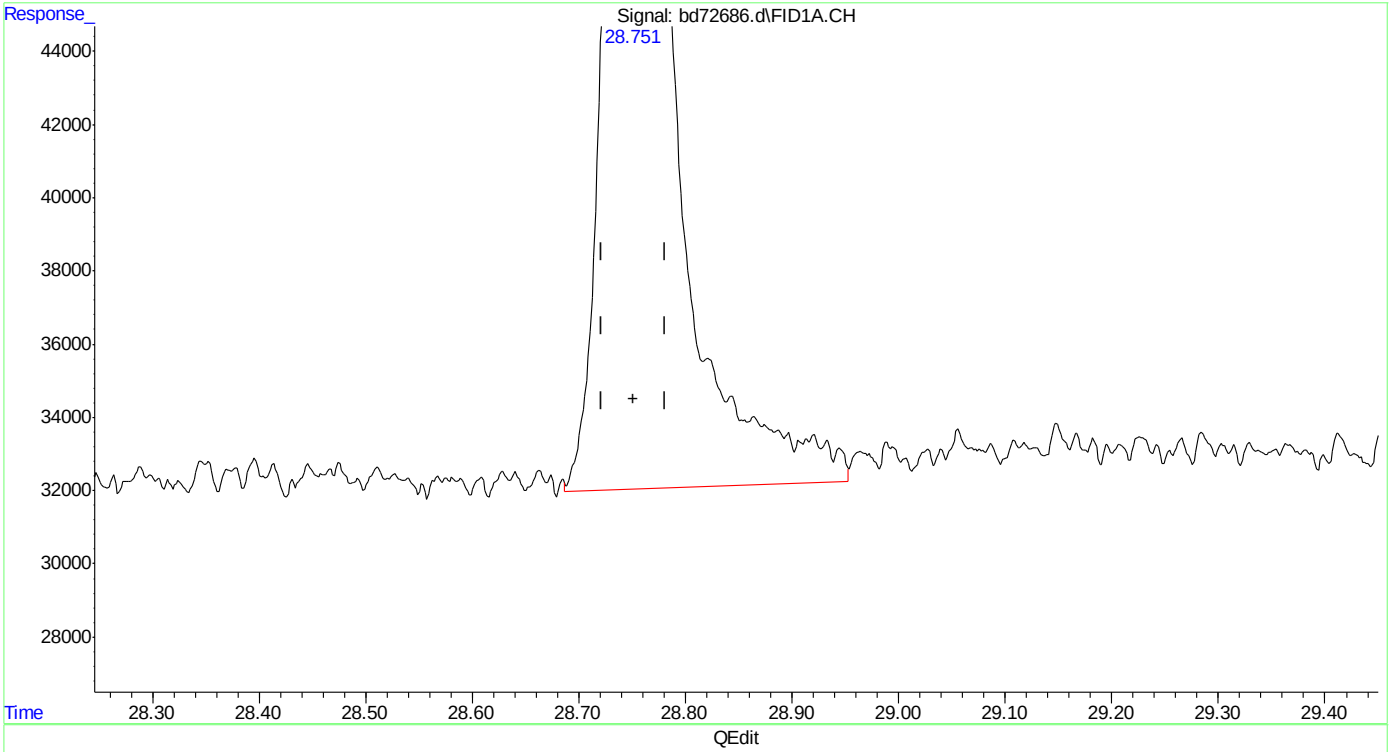
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.751min 3.412 ppb m
response 1632452

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:52 2016

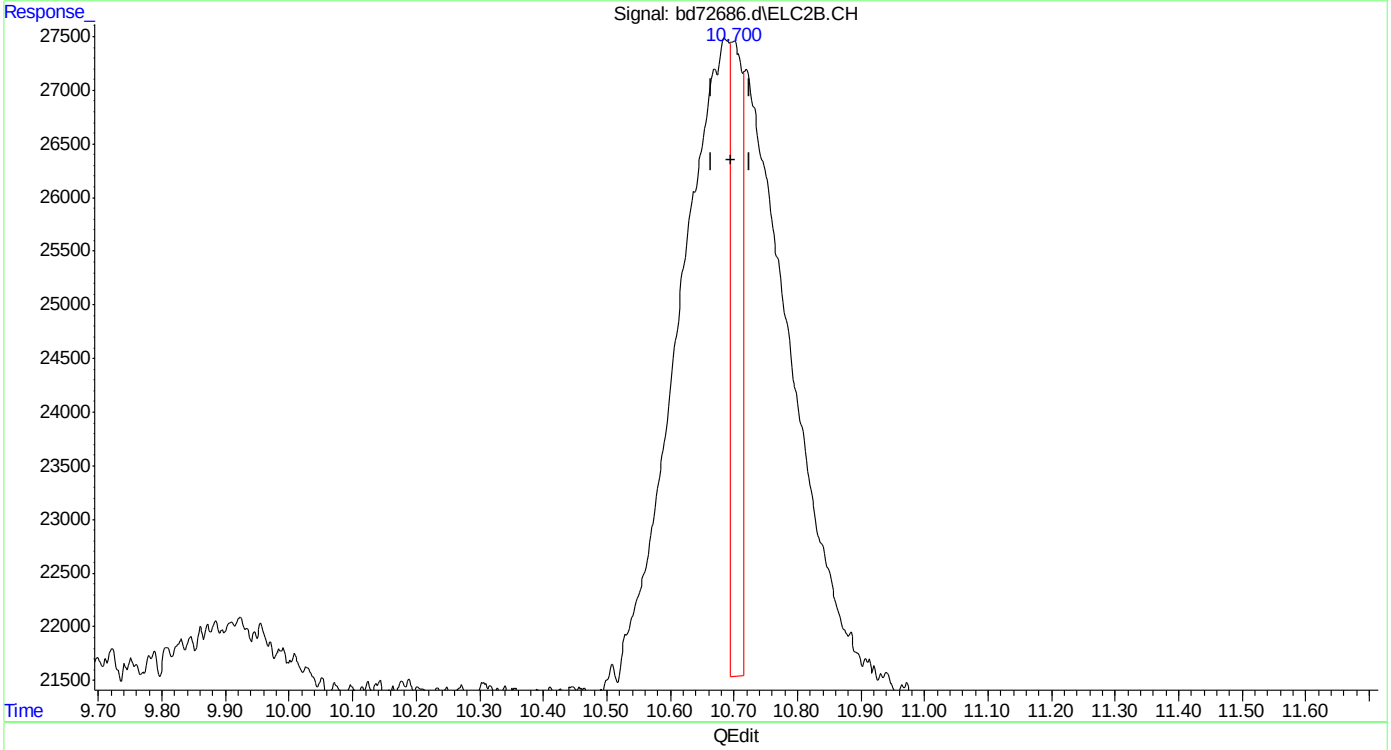
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.700min 0.472 ppb
response 74623

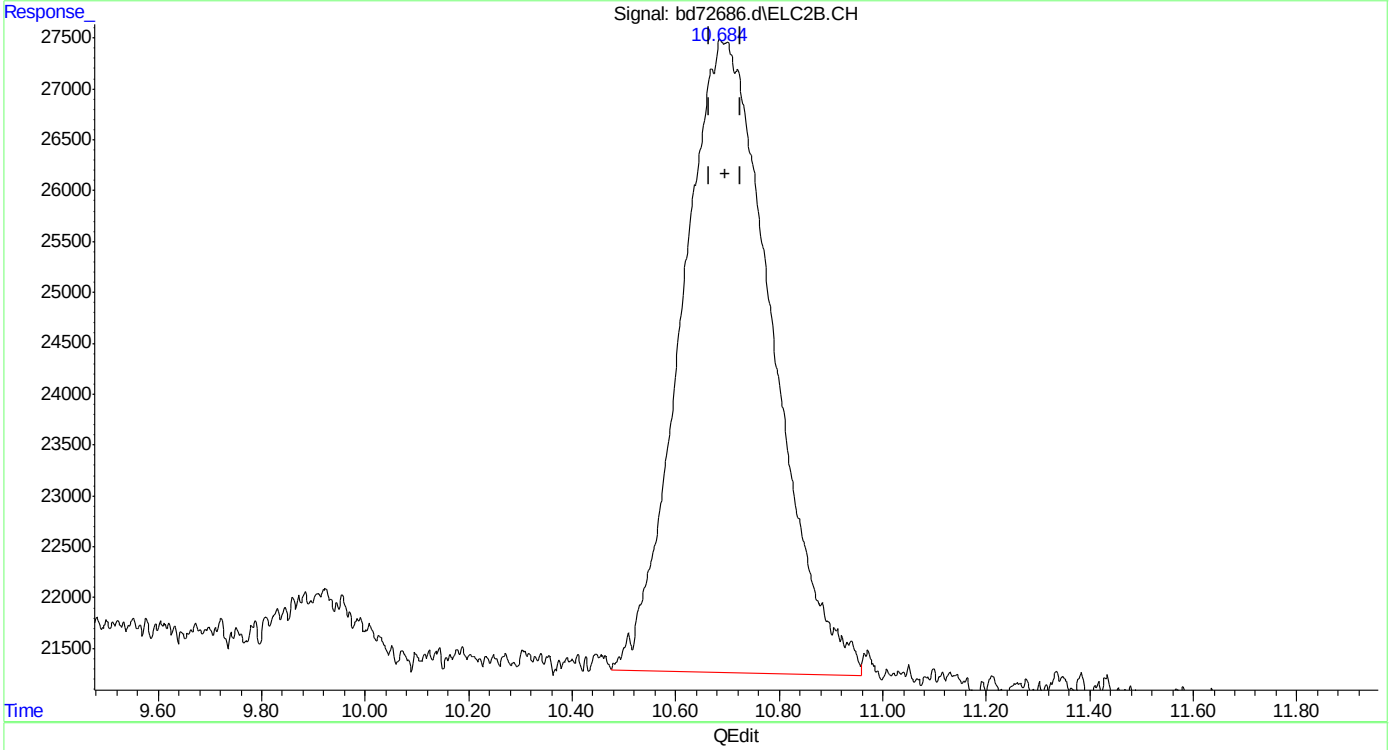
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:57 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.684min 4.779 ppb m
response 756337

(+) = Expected Retention Time

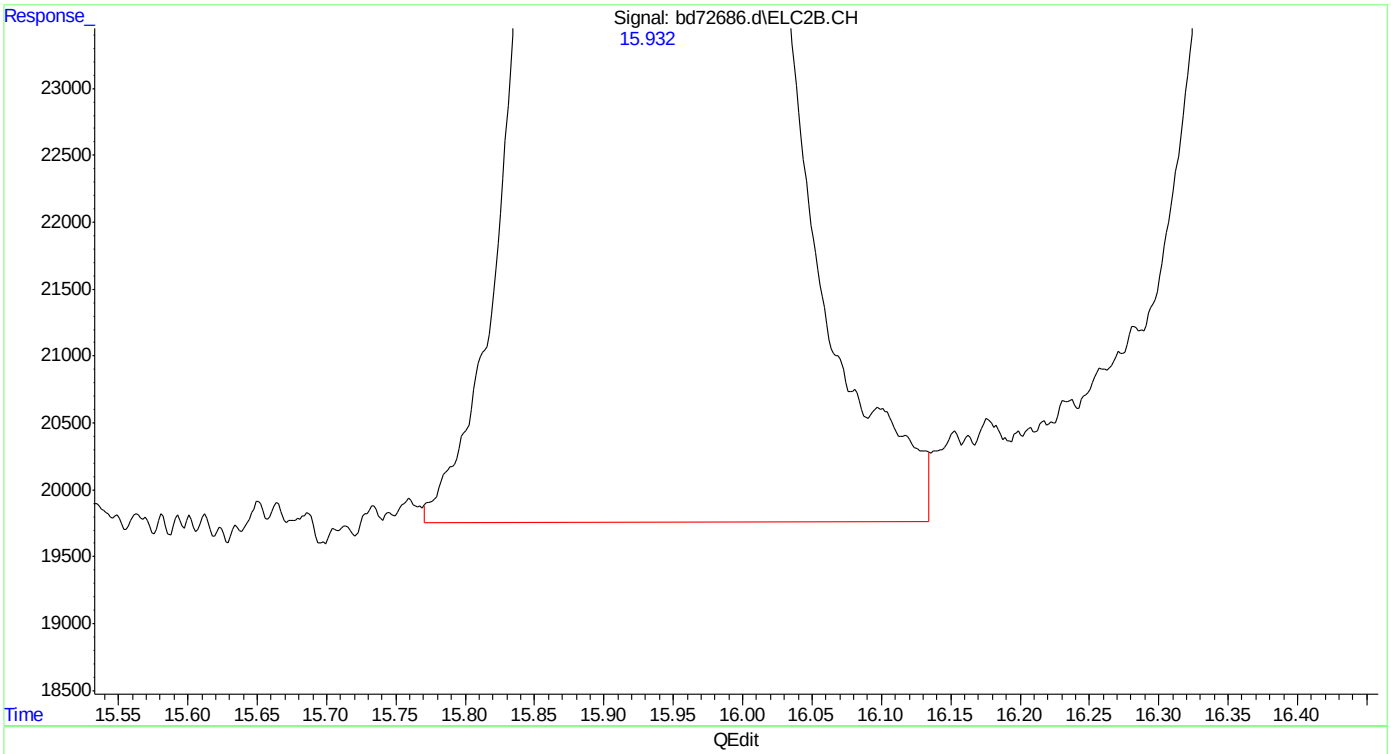
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
15.932min 4.863 ppb m
response 2298025

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:24 2016

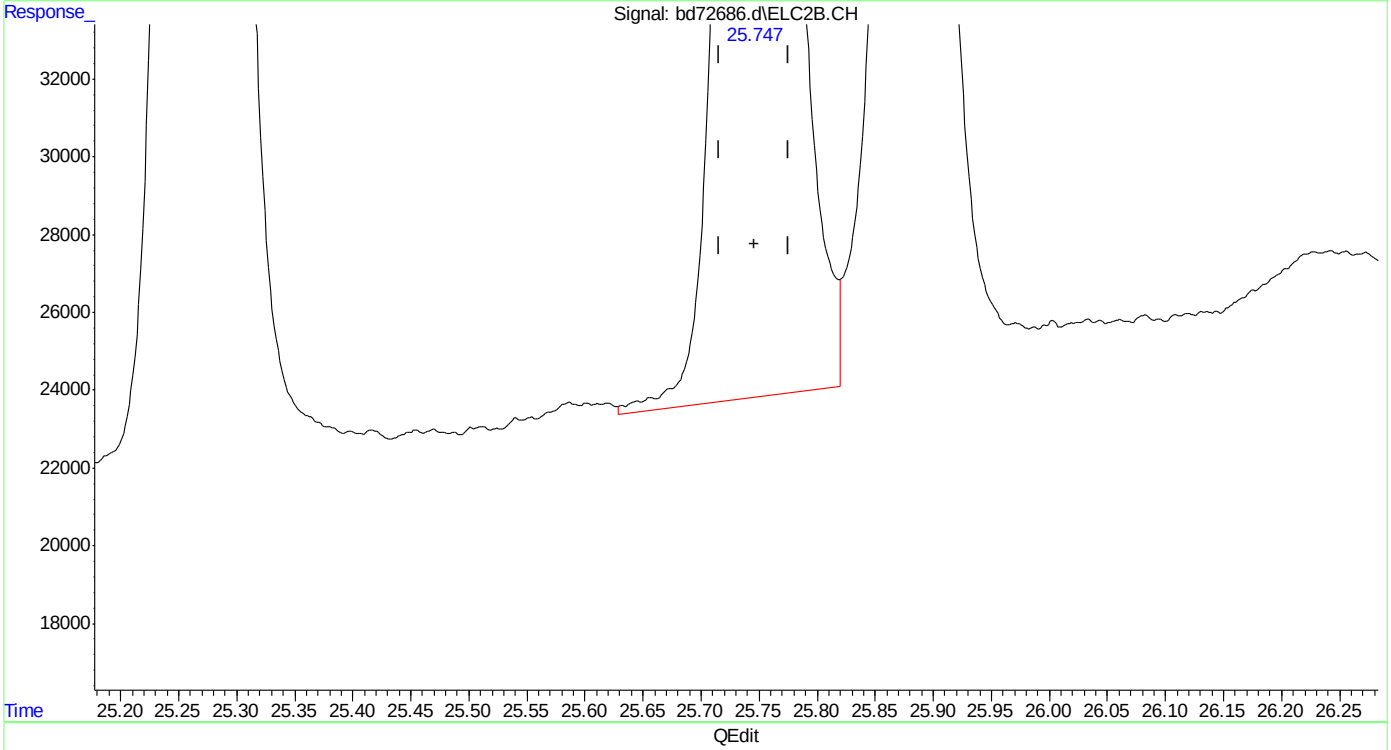
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.747min 4.982 ppb
response 2305795

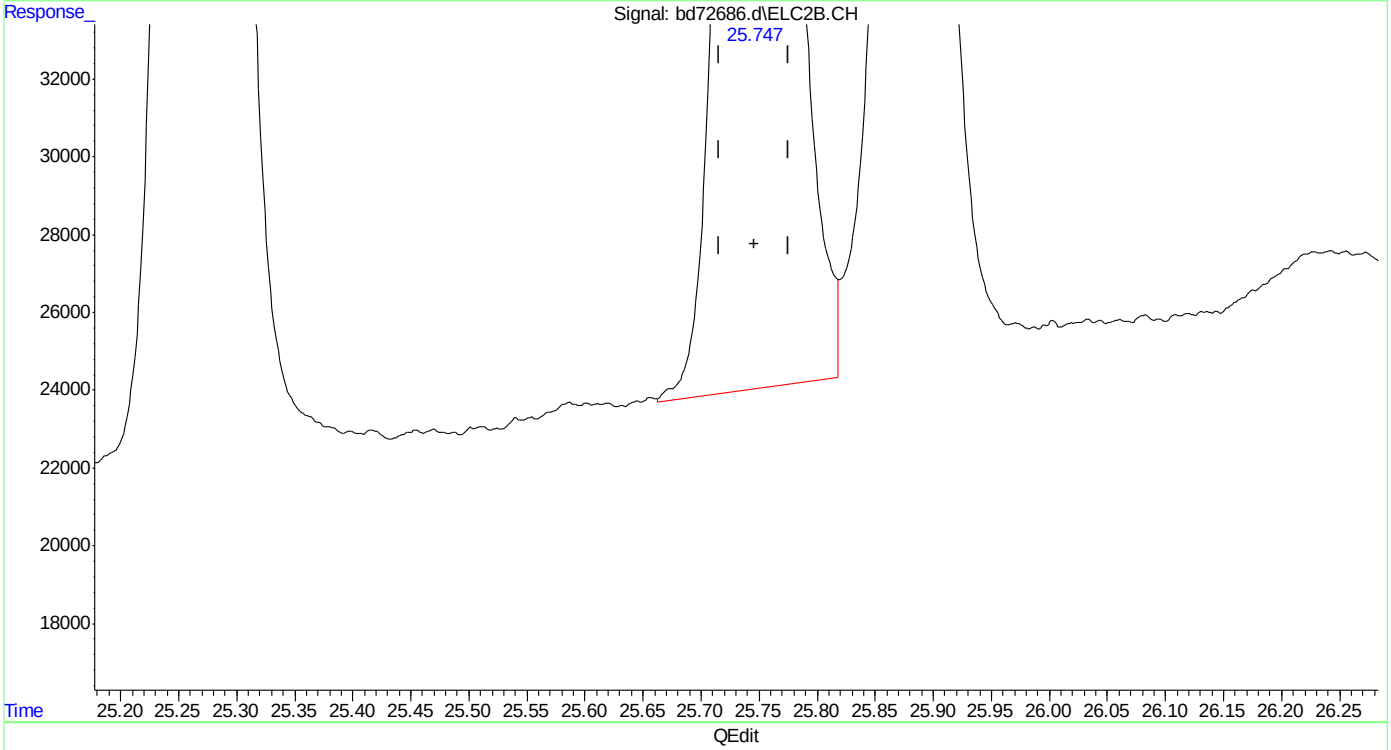
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.747min 4.922 ppb m
response 2277872

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:49 2016

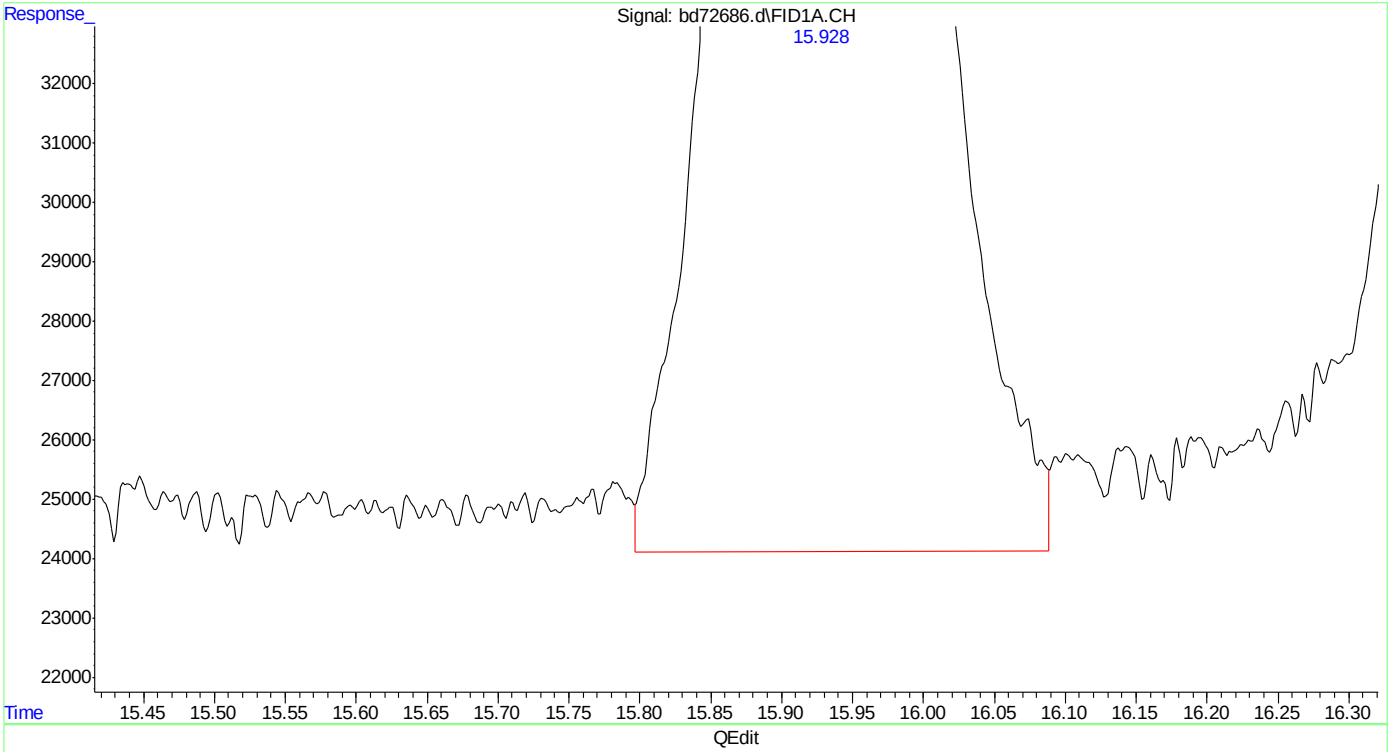
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene

15.930min 4.747 ppb

response 3683528

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:06:29 2016

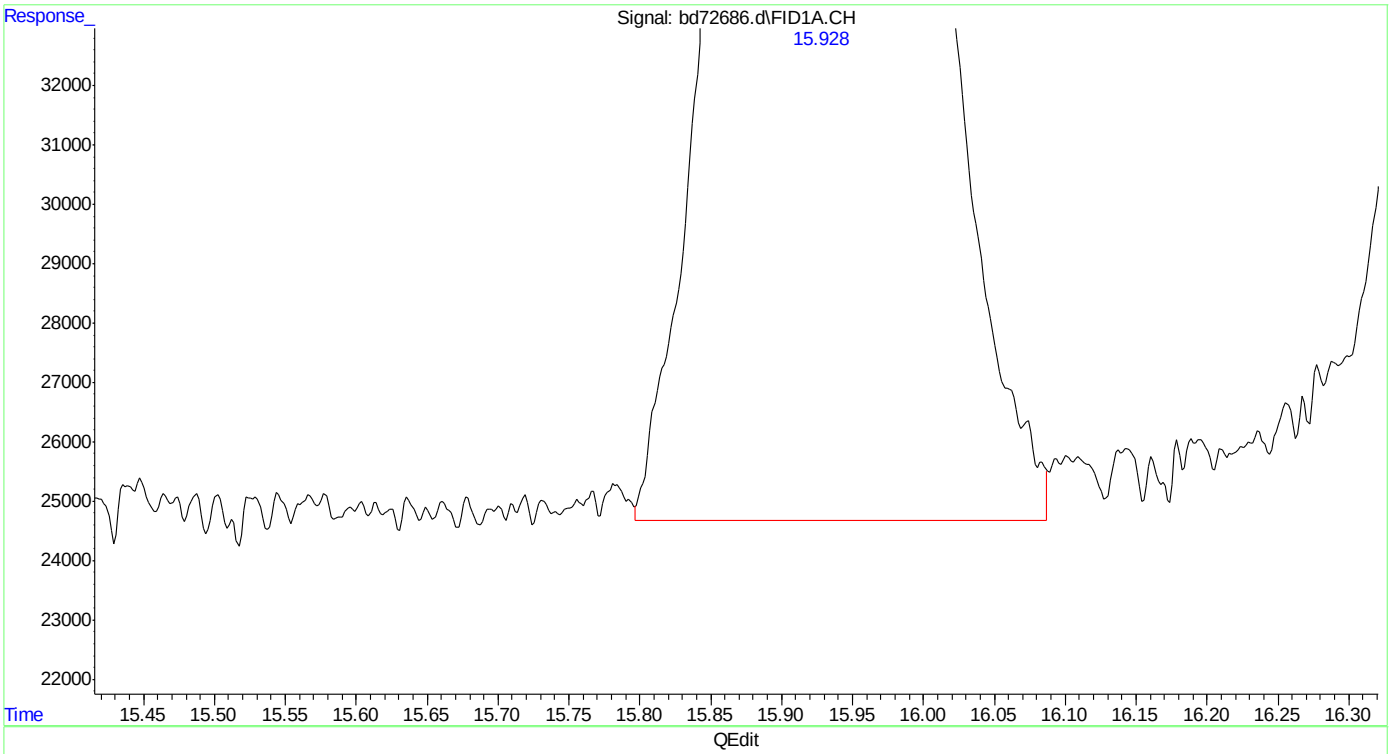
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(5) benzene

15.928min 4.622 ppb m

response 3586407

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:06:34 2016 Page: 1

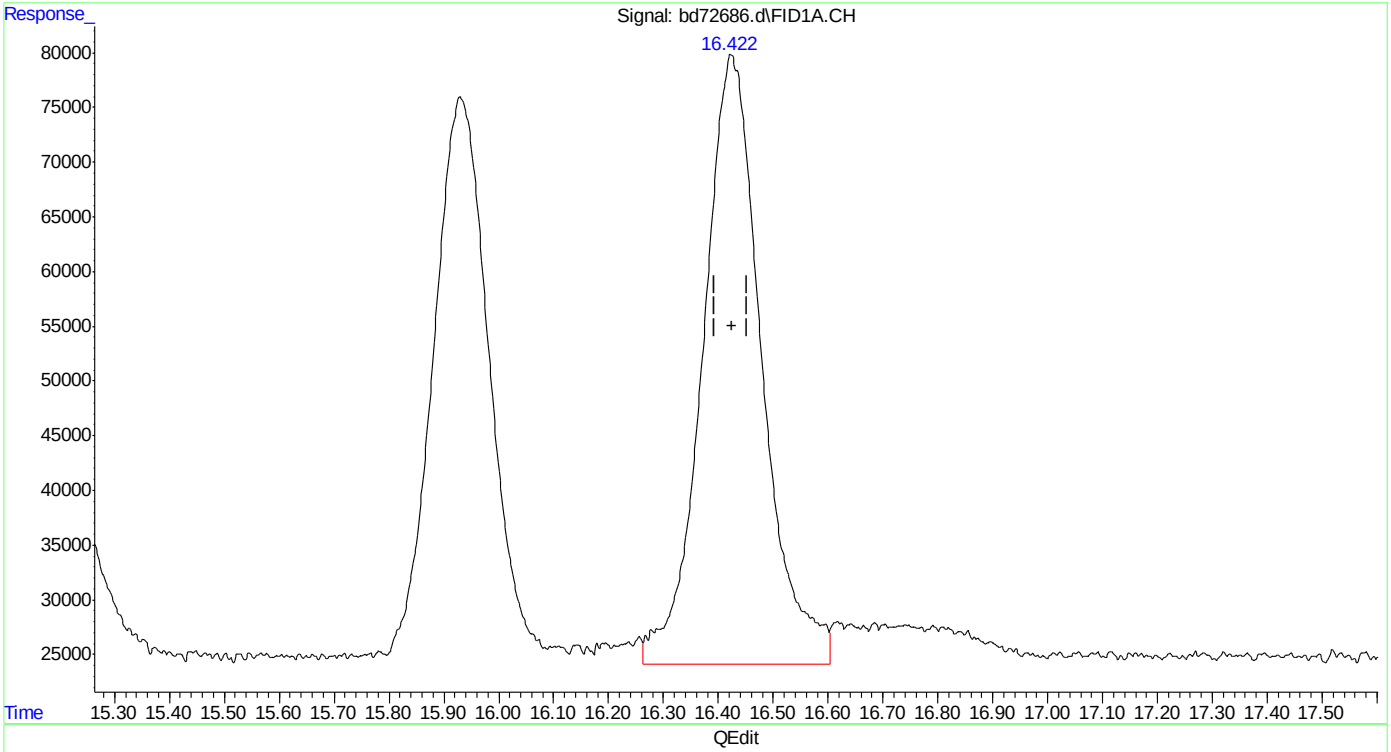
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.423min 5.653 ppb
response 4152408

(+) = Expected Retention Time

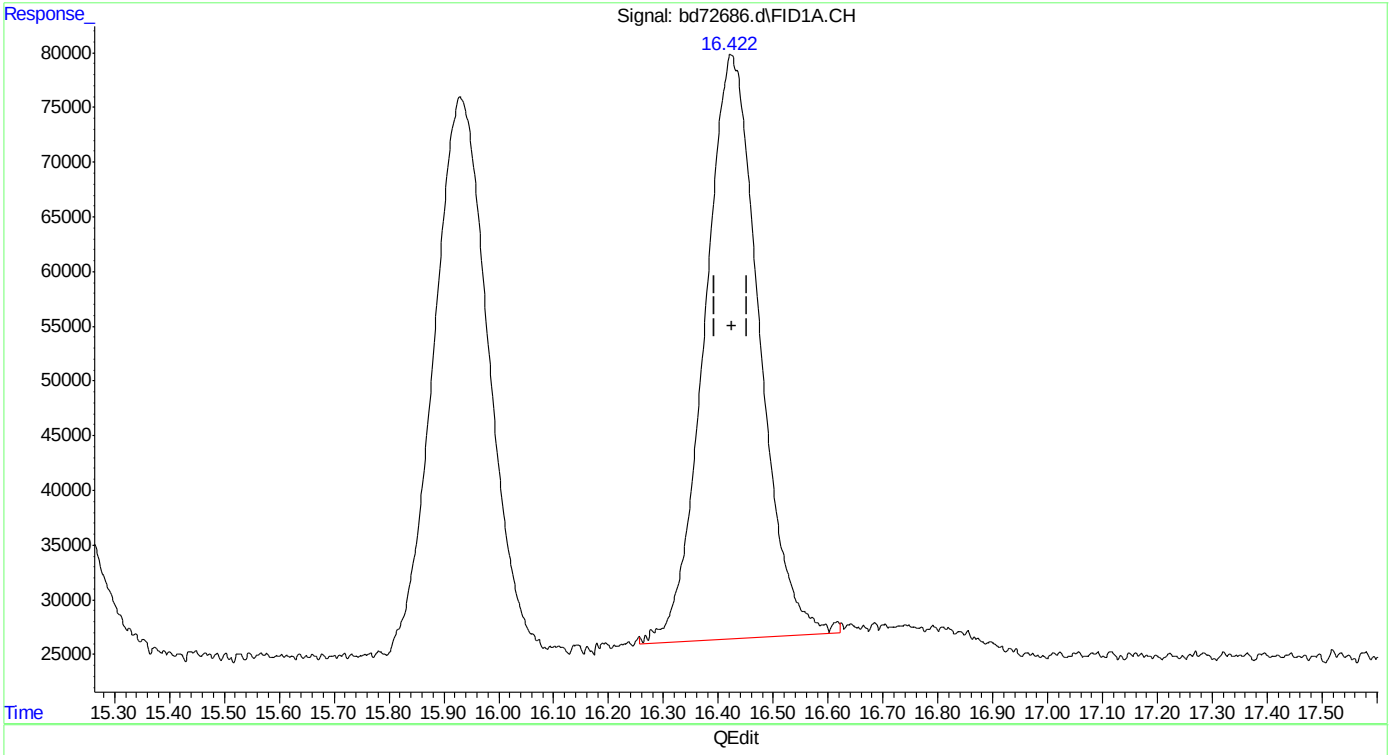
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.422min 5.021 ppb m
response 3688118

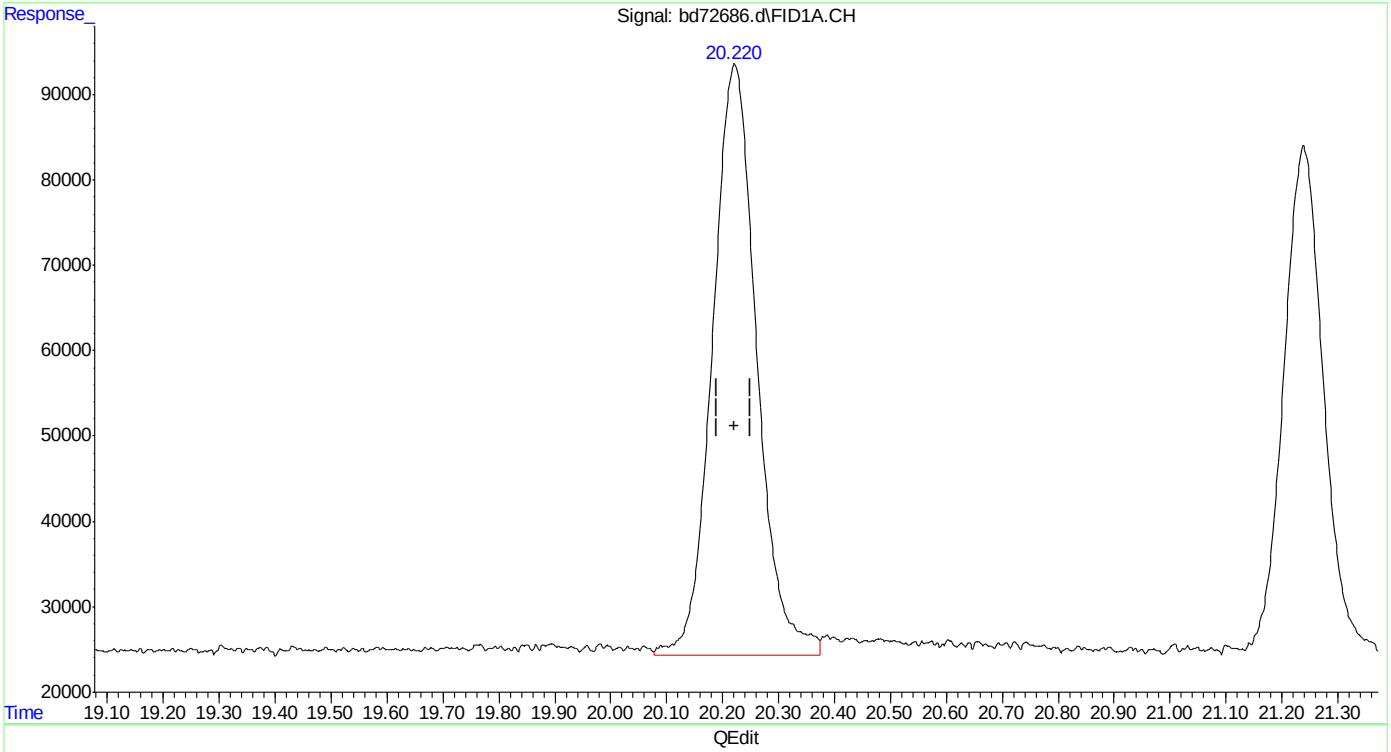
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene
20.222min 4.870 ppb
response 3795317

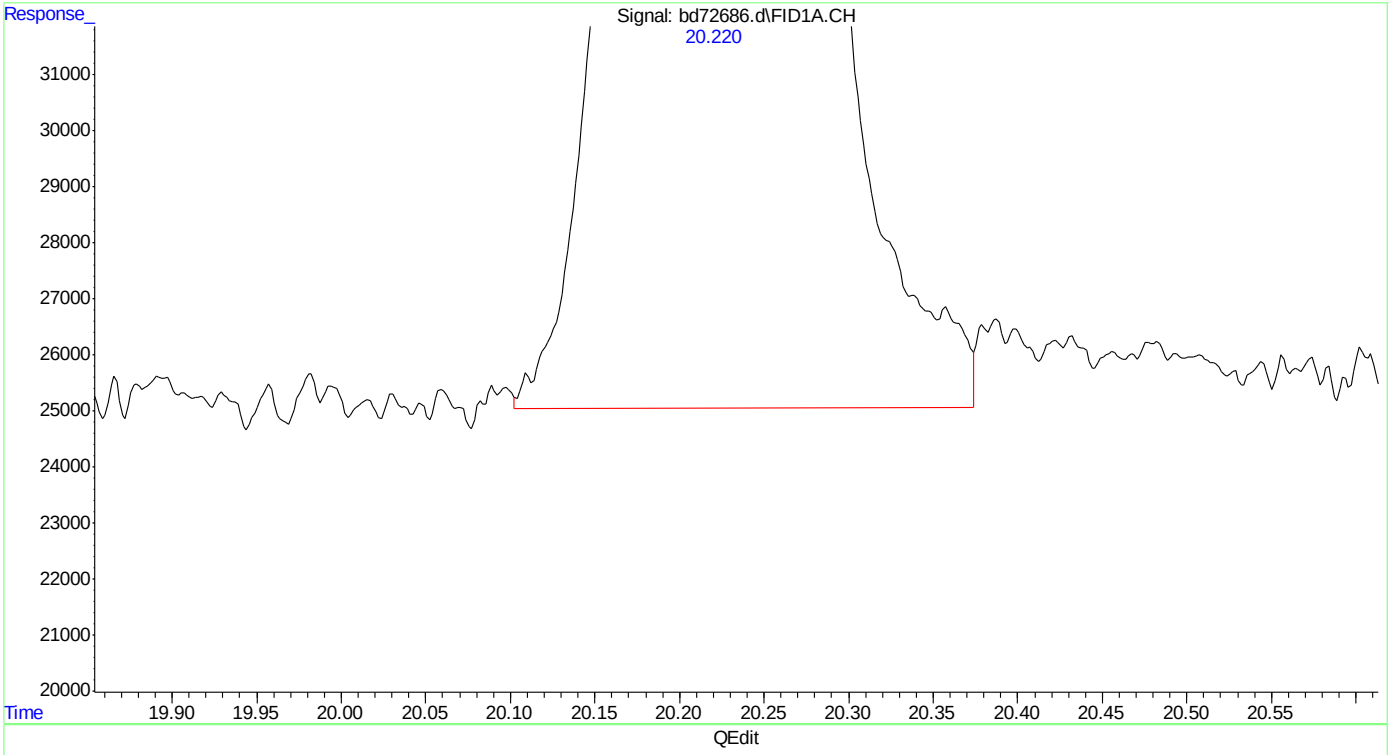
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:48 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene

20.220min 4.710 ppb m

response 3670681

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:06:54 2016

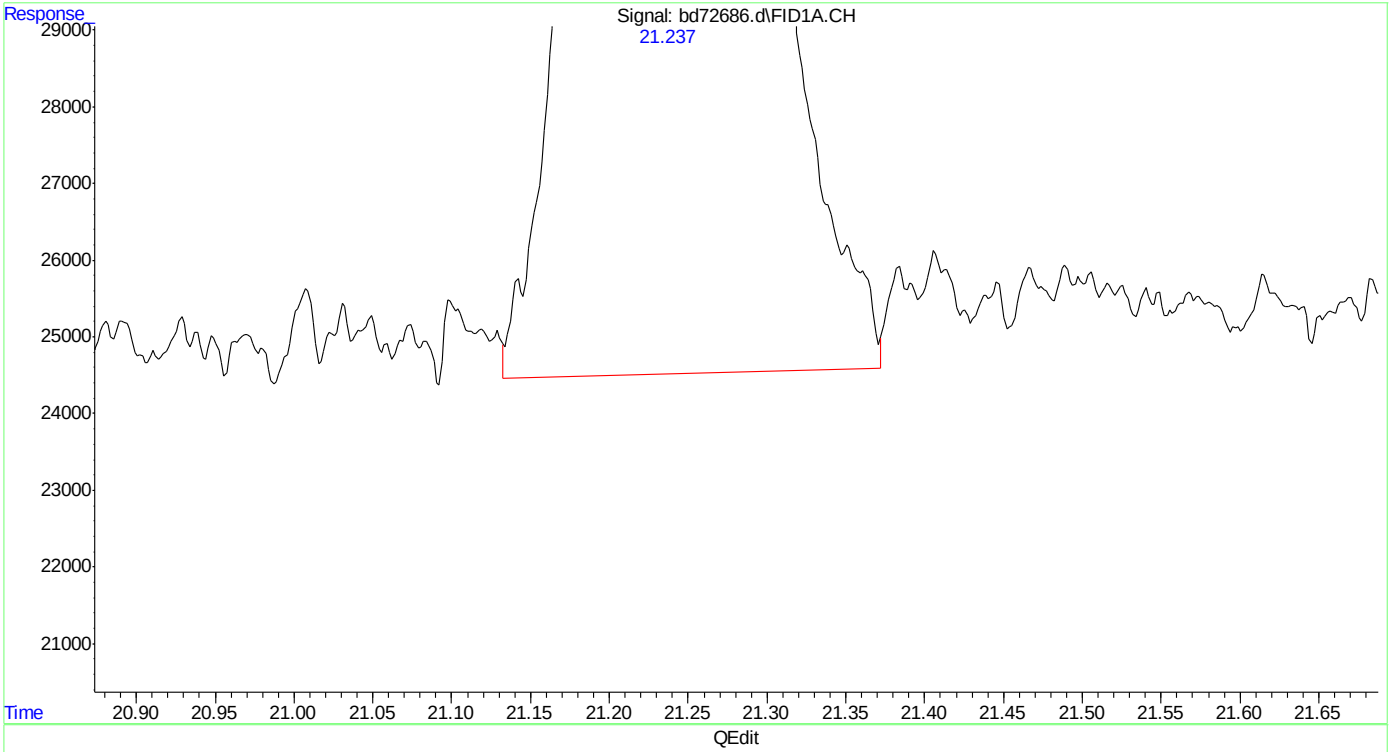
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.239min 5.183 ppb
response 2942188

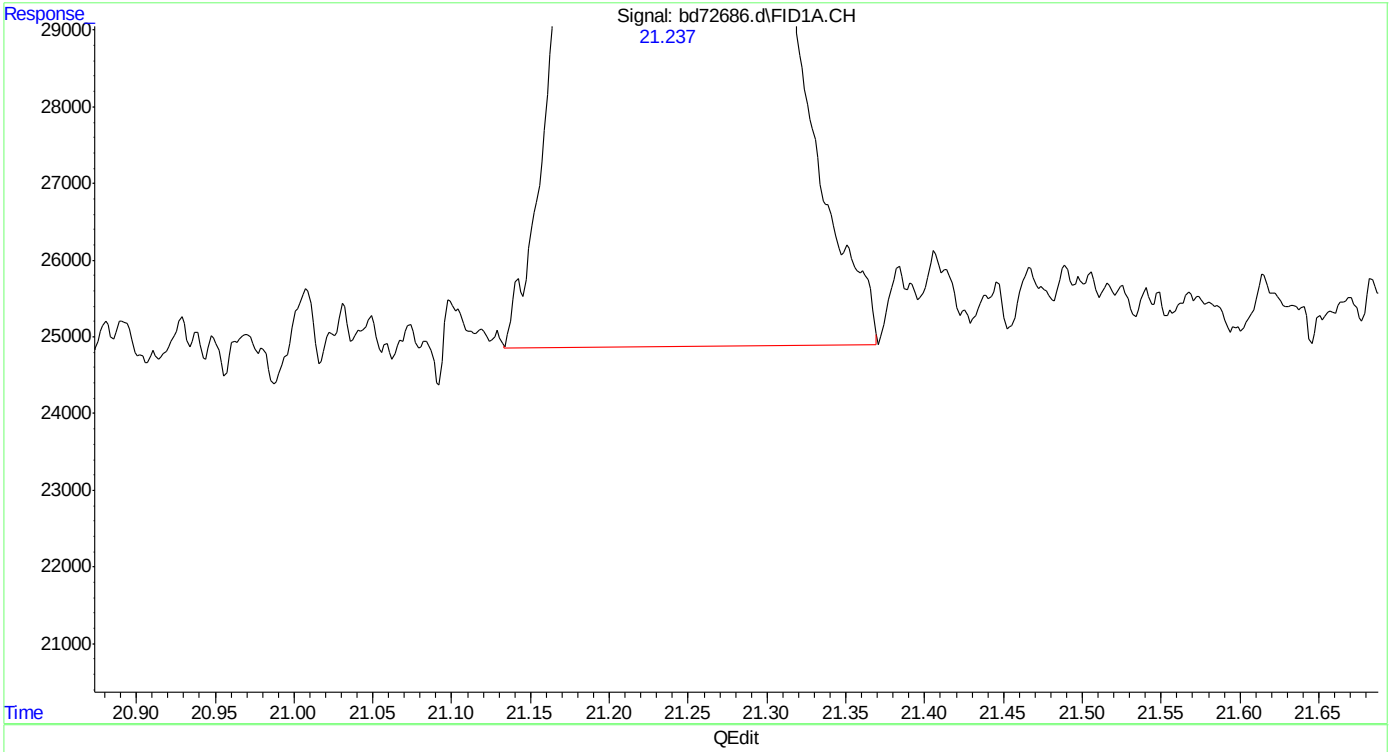
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:59 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)

21.237min 5.093 ppb m

response 2891402

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:07:05 2016

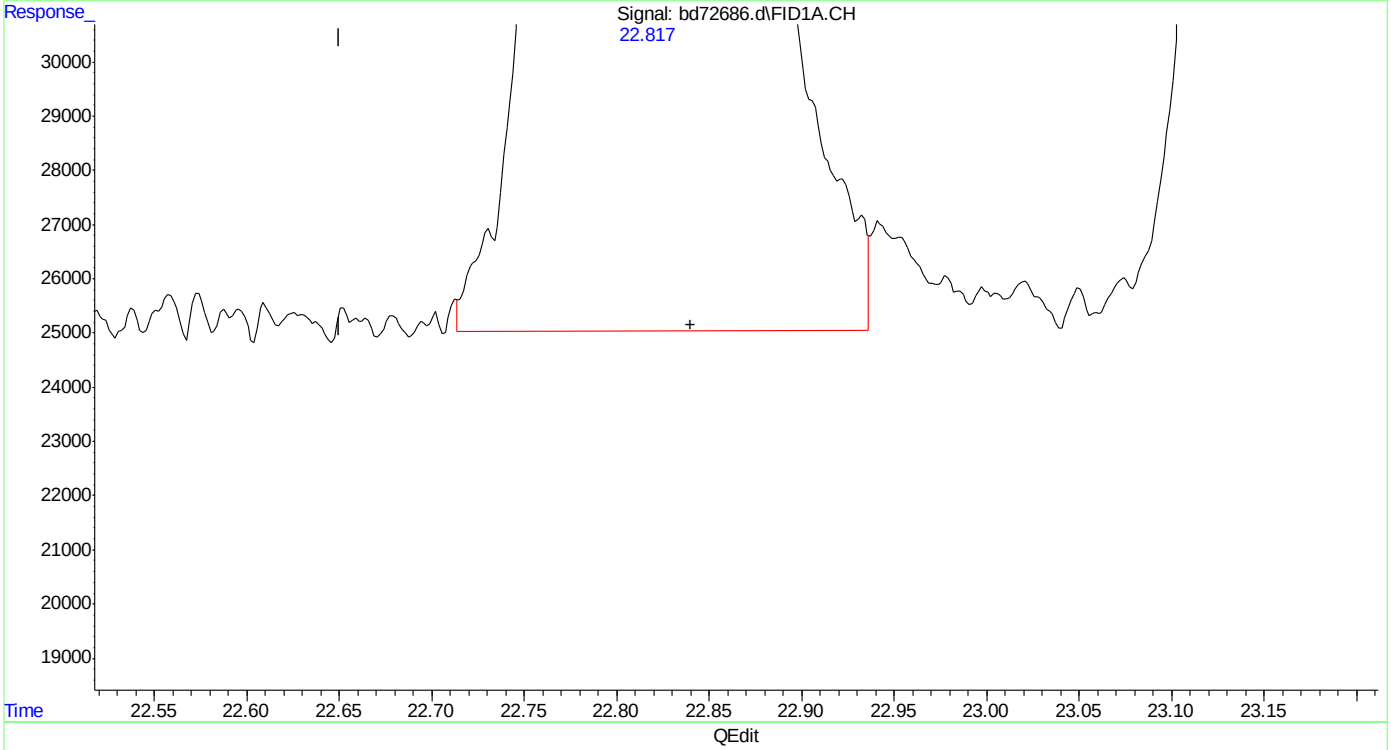
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(11) rt20/25 (h)
22.840min 5.237 ppb m
response 4228618

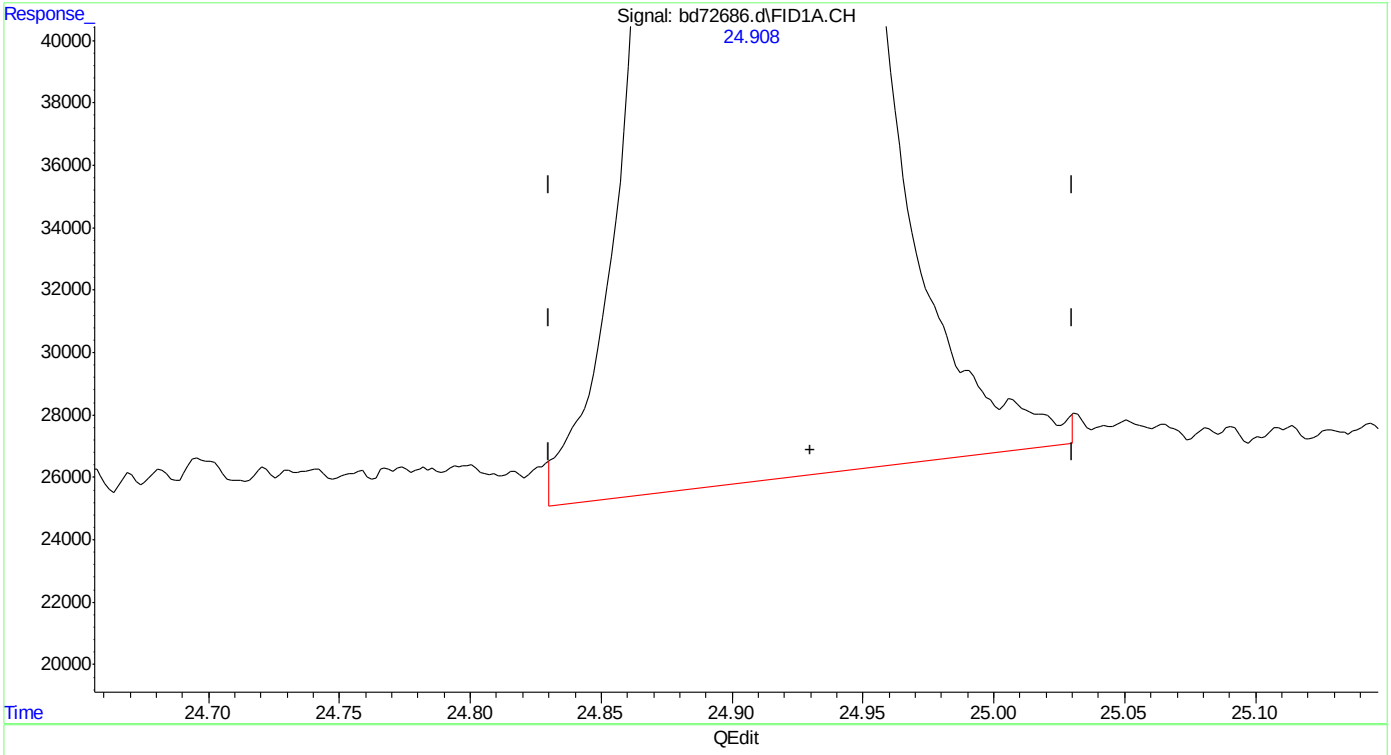
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(16) decane (h)
24.930min 5.719 ppb
response 4916883

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:26 2016

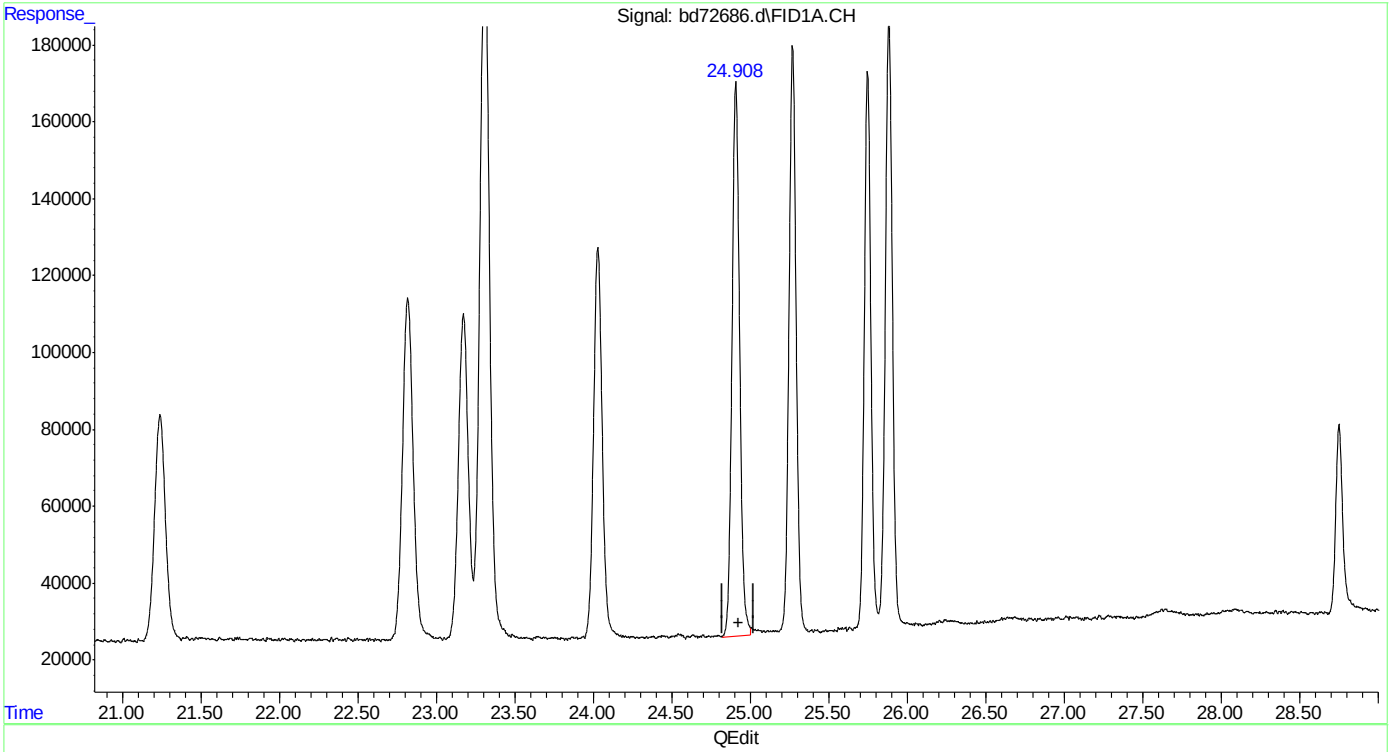
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(16) decane (h)
24.930min 5.664 ppb m
response 4869338

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:50 2016

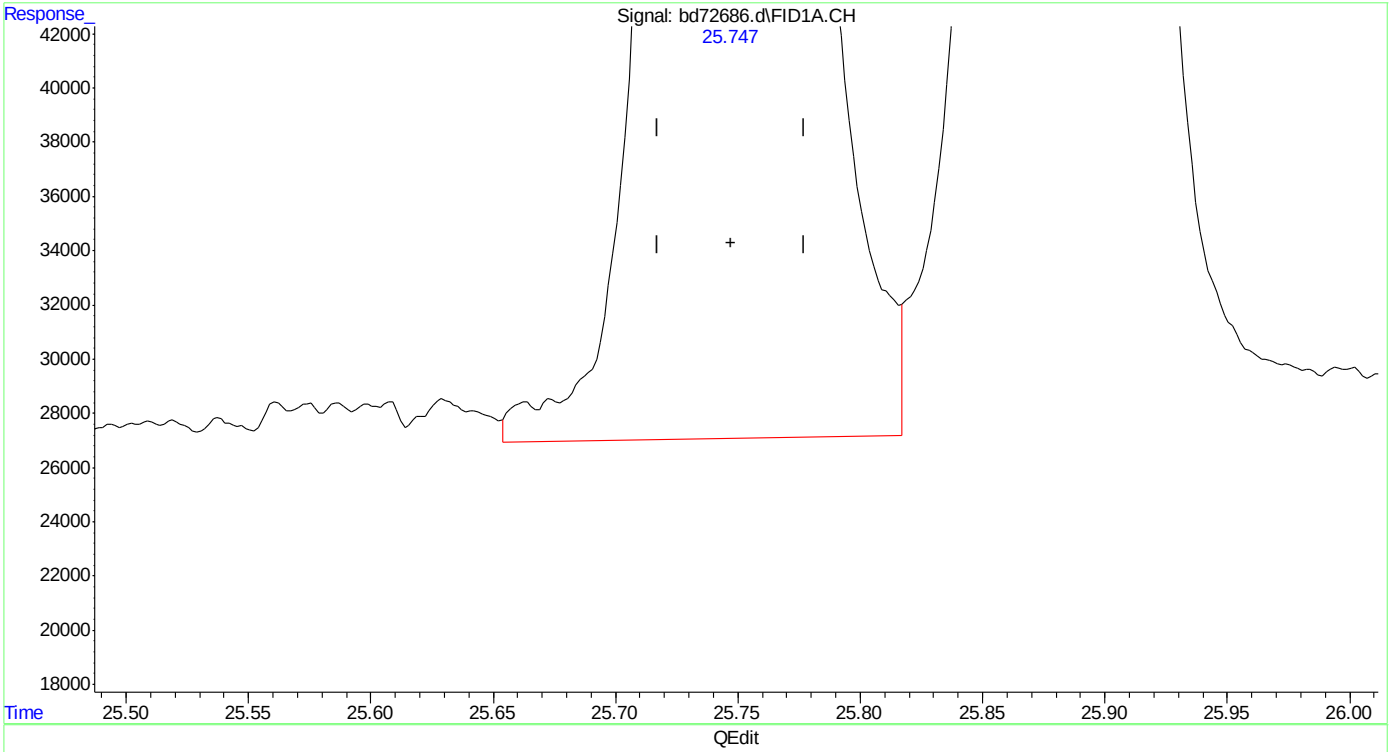
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.748min 4.985 ppb
response 4343408

(+) = Expected Retention Time

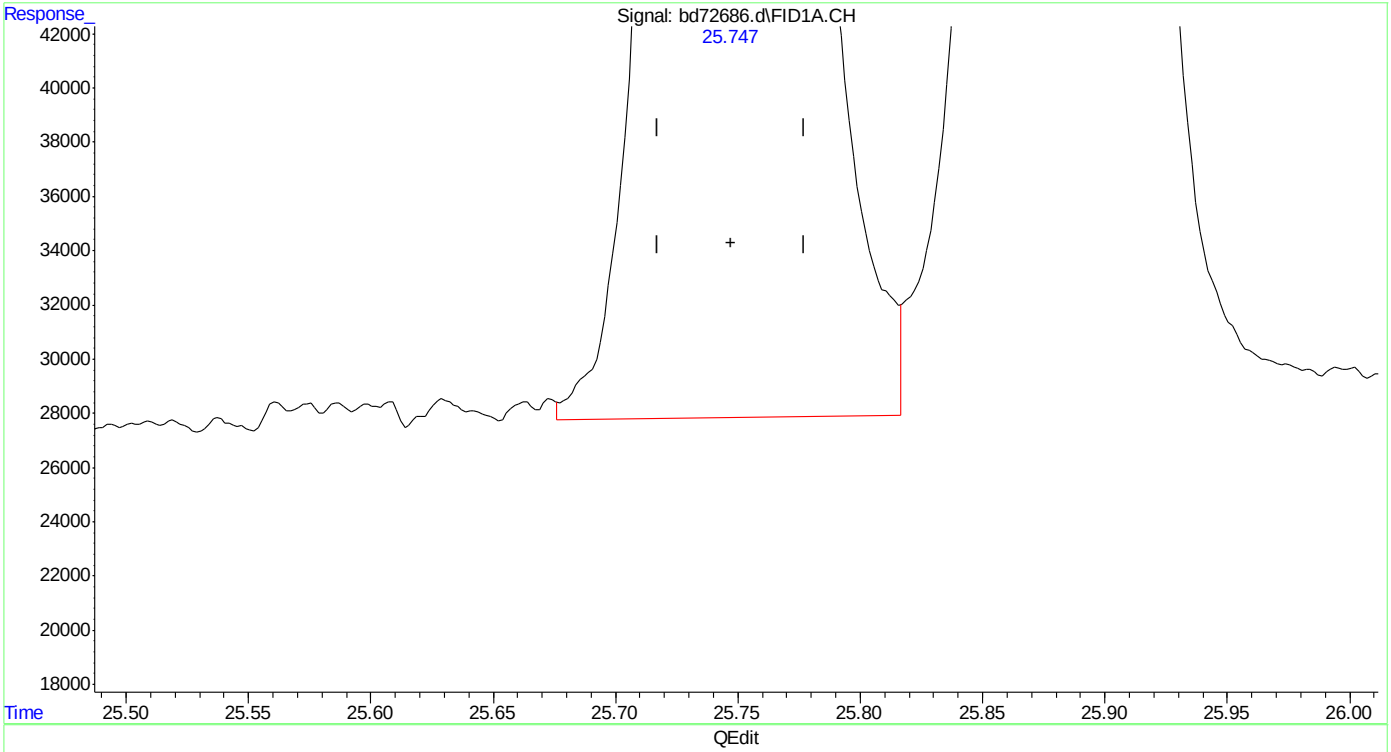
bd160219master.M Fri Feb 19 12:07:58 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.747min 4.888 ppb m
response 4259354

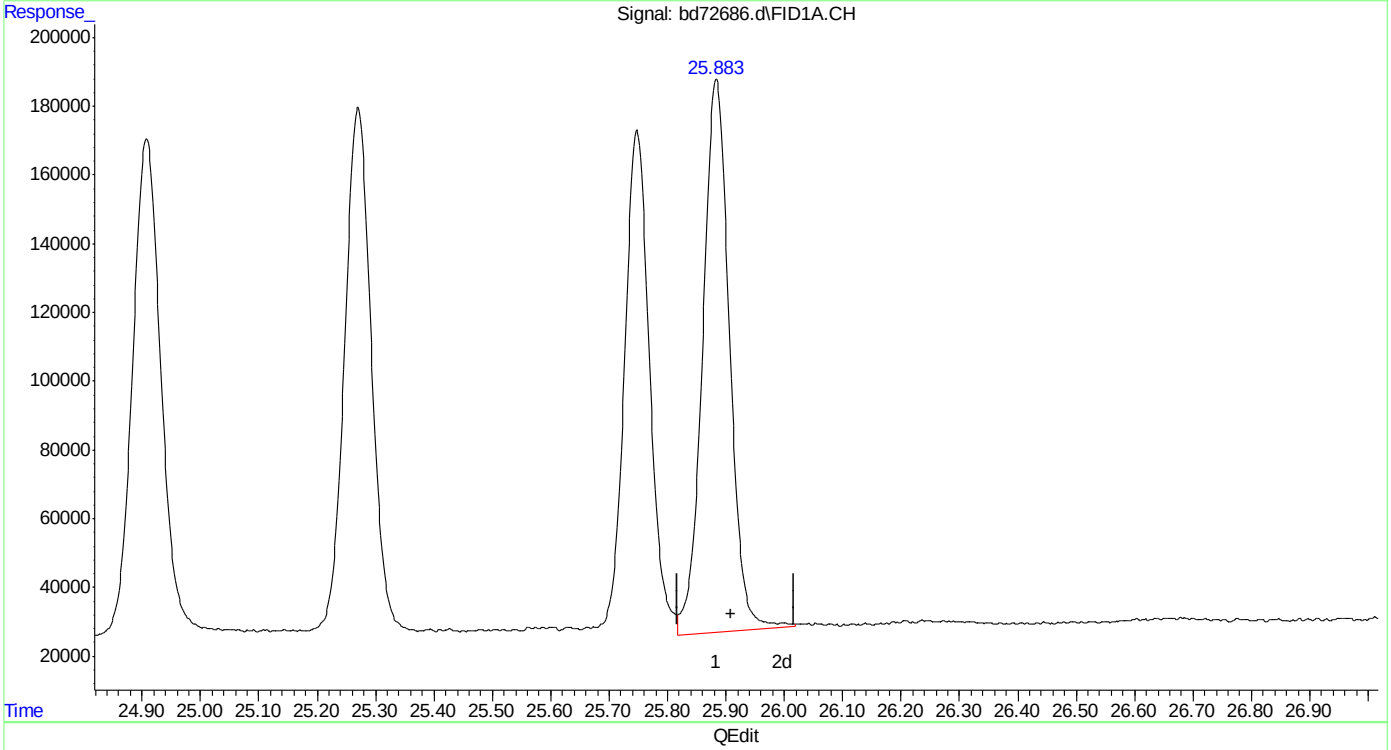
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) butylcyclohexane (h)
25.908min 5.606 ppb m
response 5140578

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:08 2016

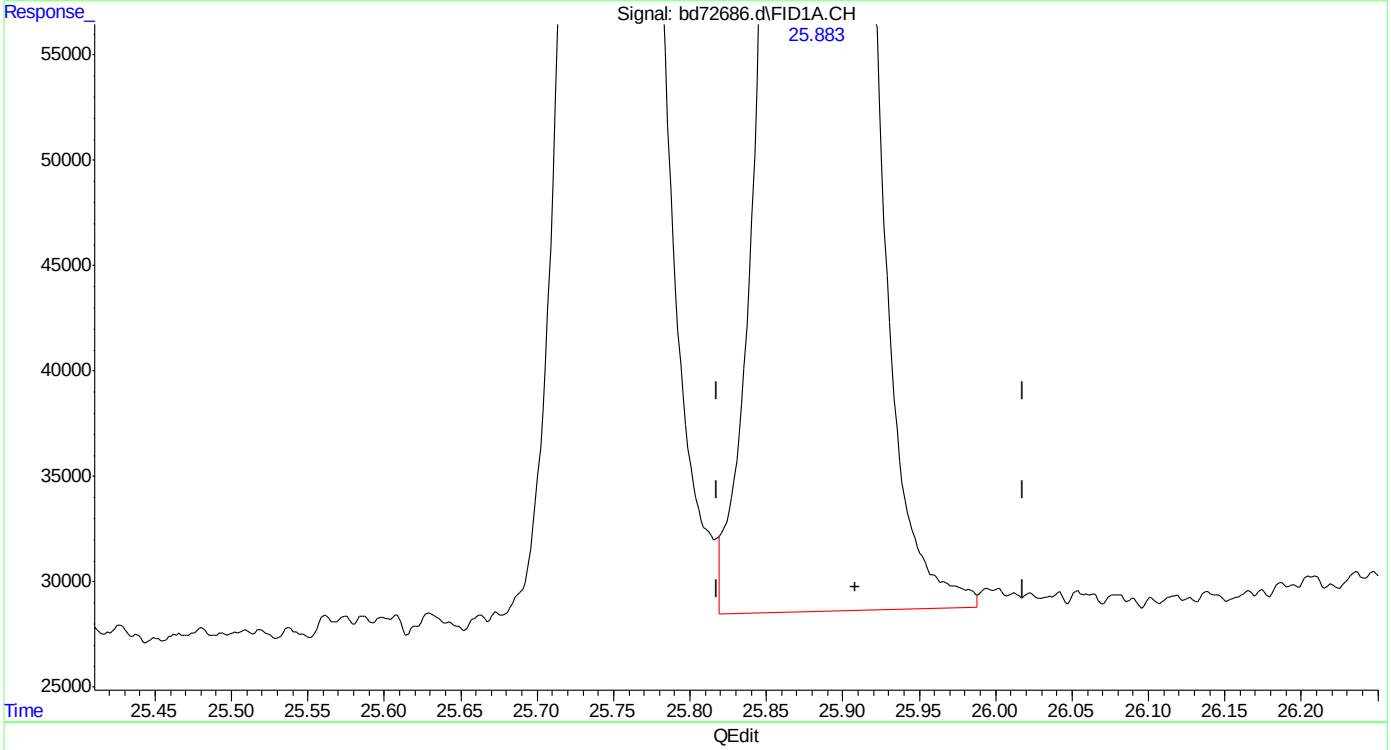
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) butylcyclohexane (h)
25.908min 5.418 ppb m
response 4968205

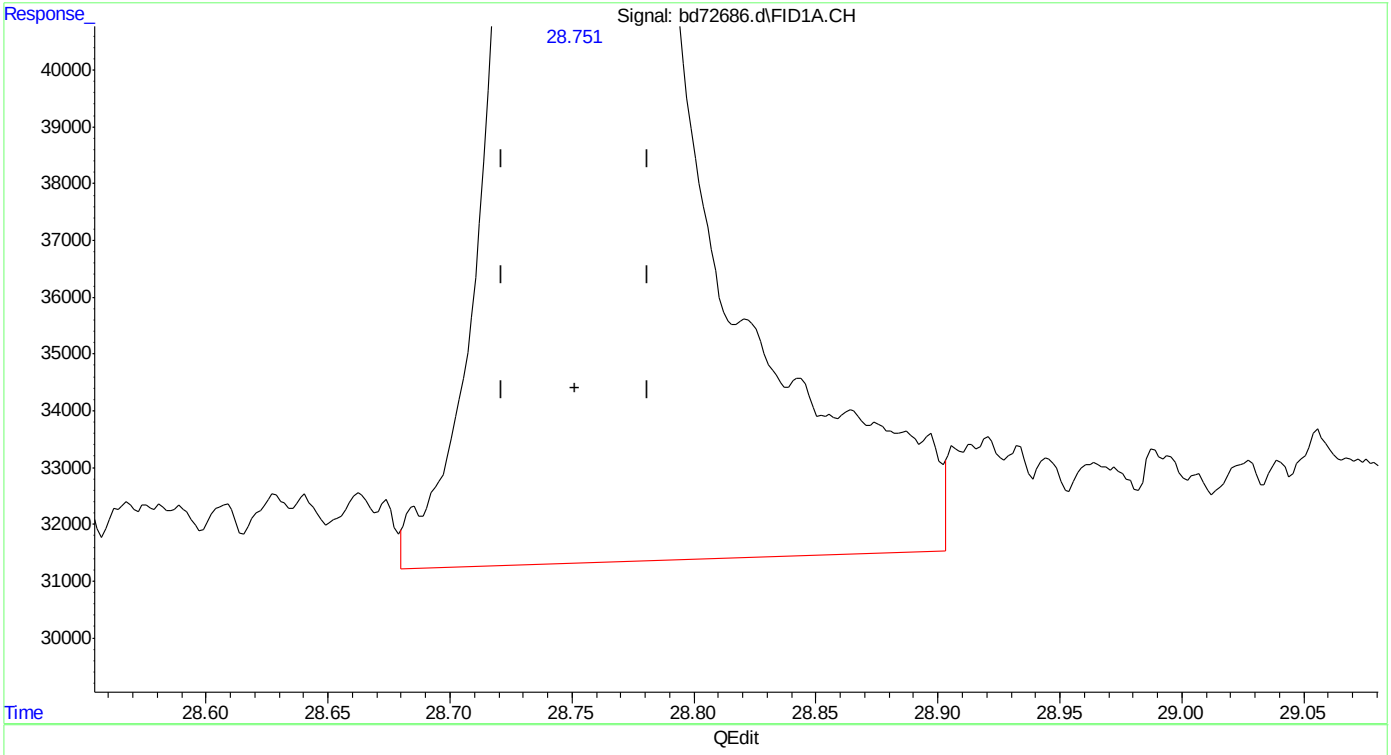
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.752min 3.971 ppb
response 1699084

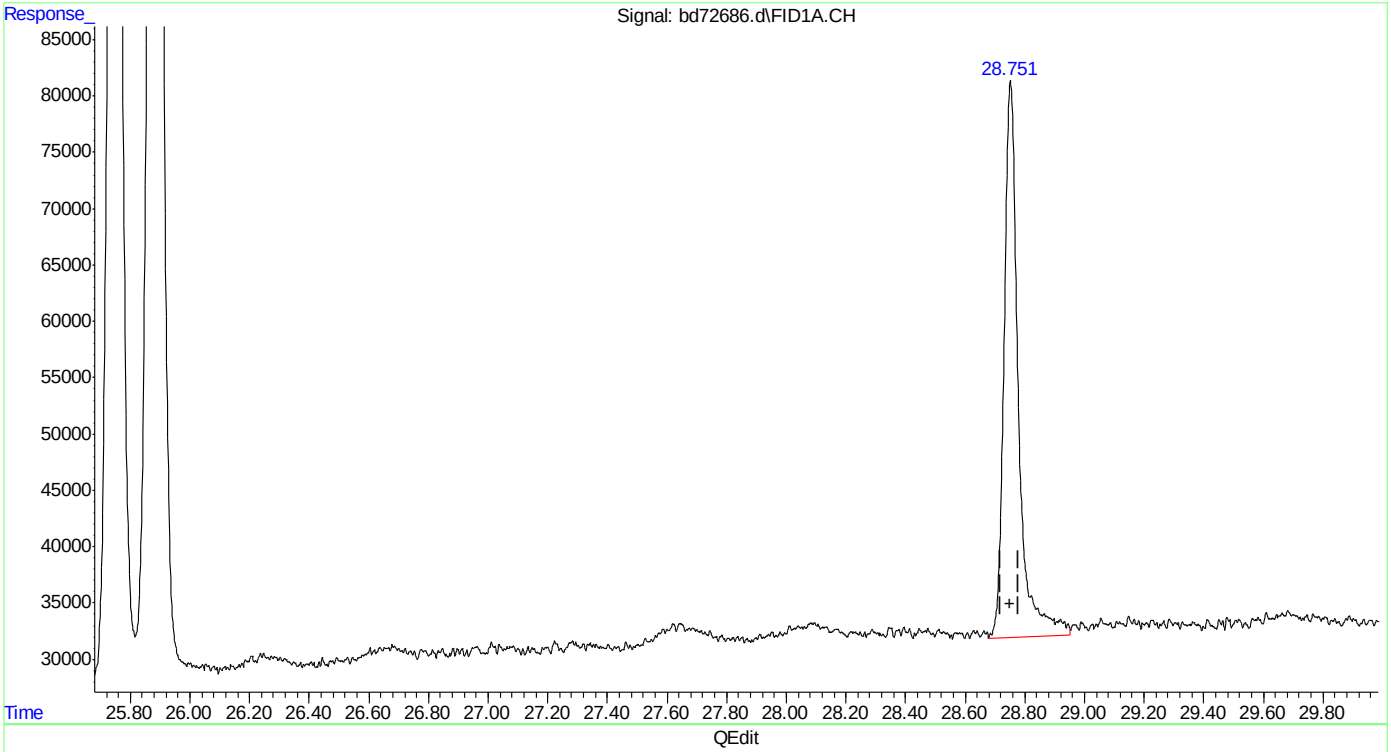
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.751min 3.869 ppb m
response 1655353

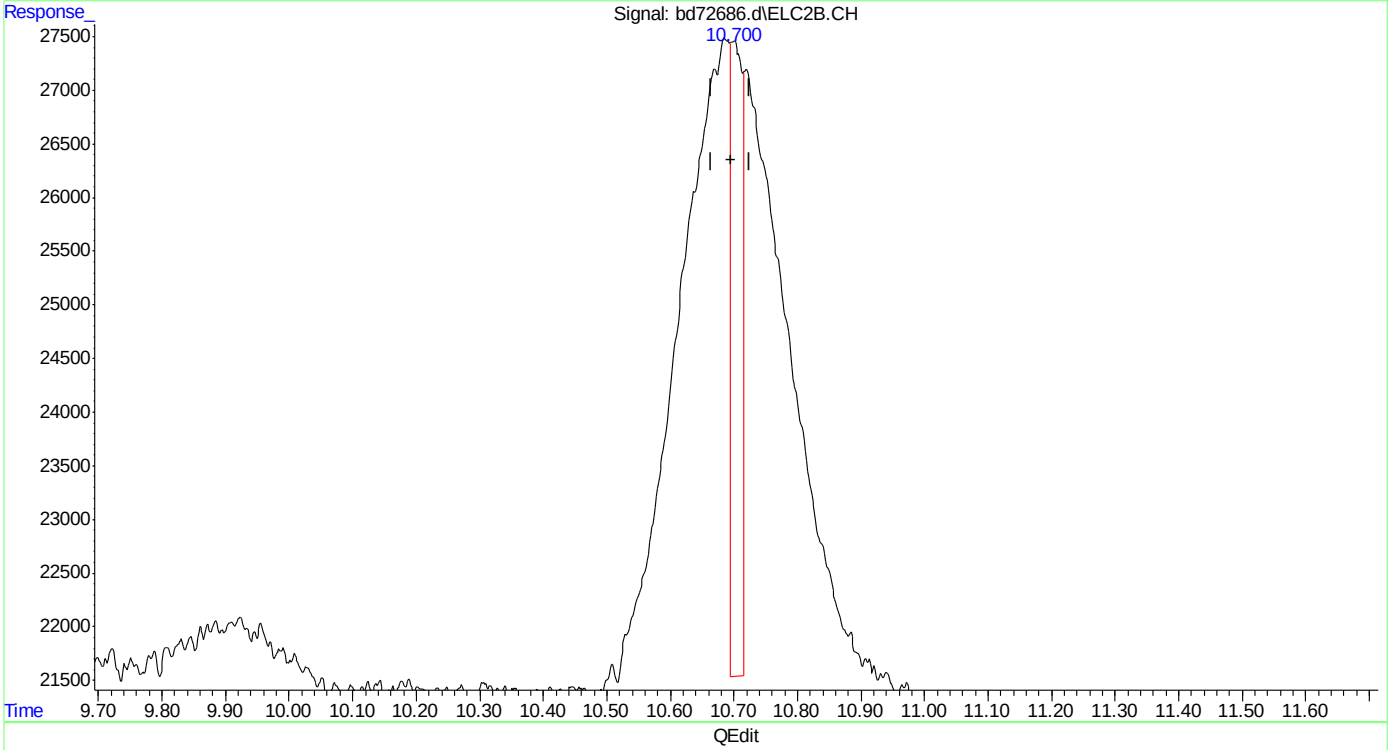
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.700min 0.479 ppb
response 74623

(+) = Expected Retention Time

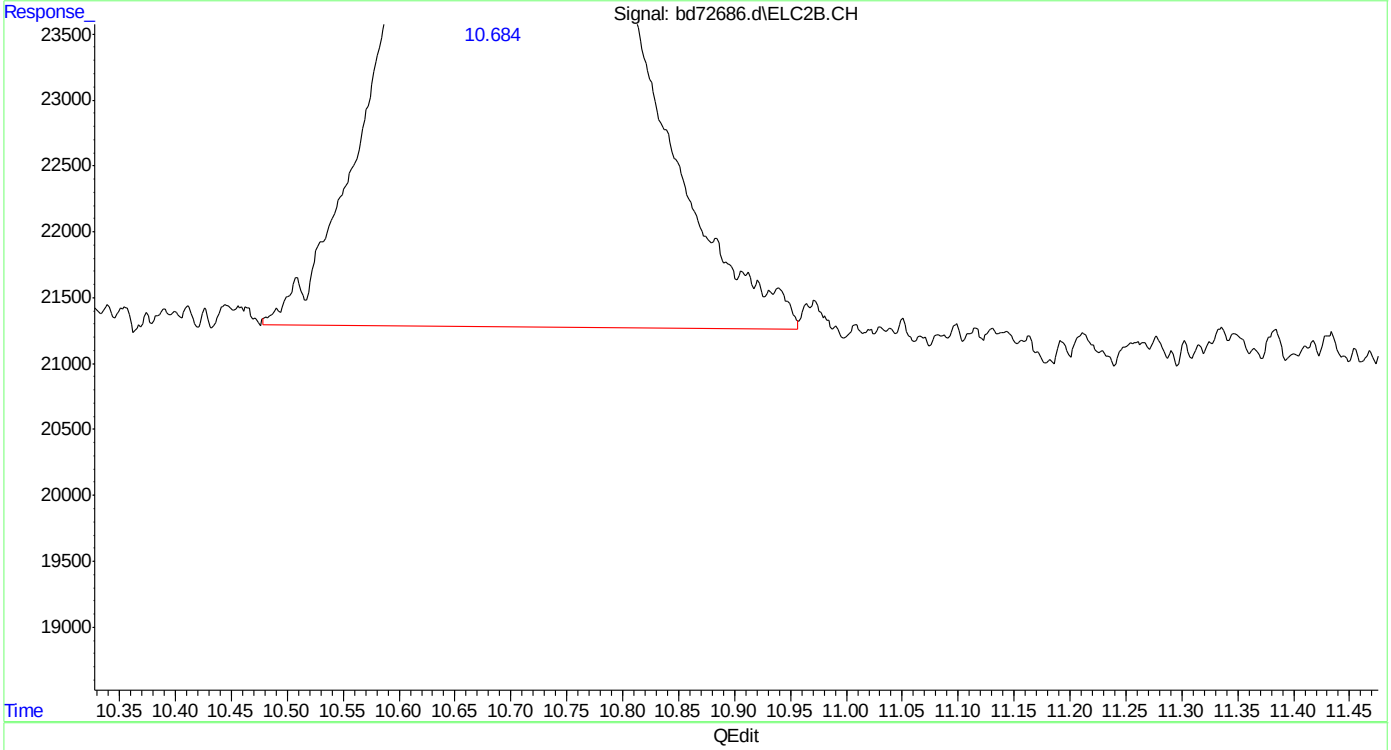
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.684min 4.817 ppb m
response 750779

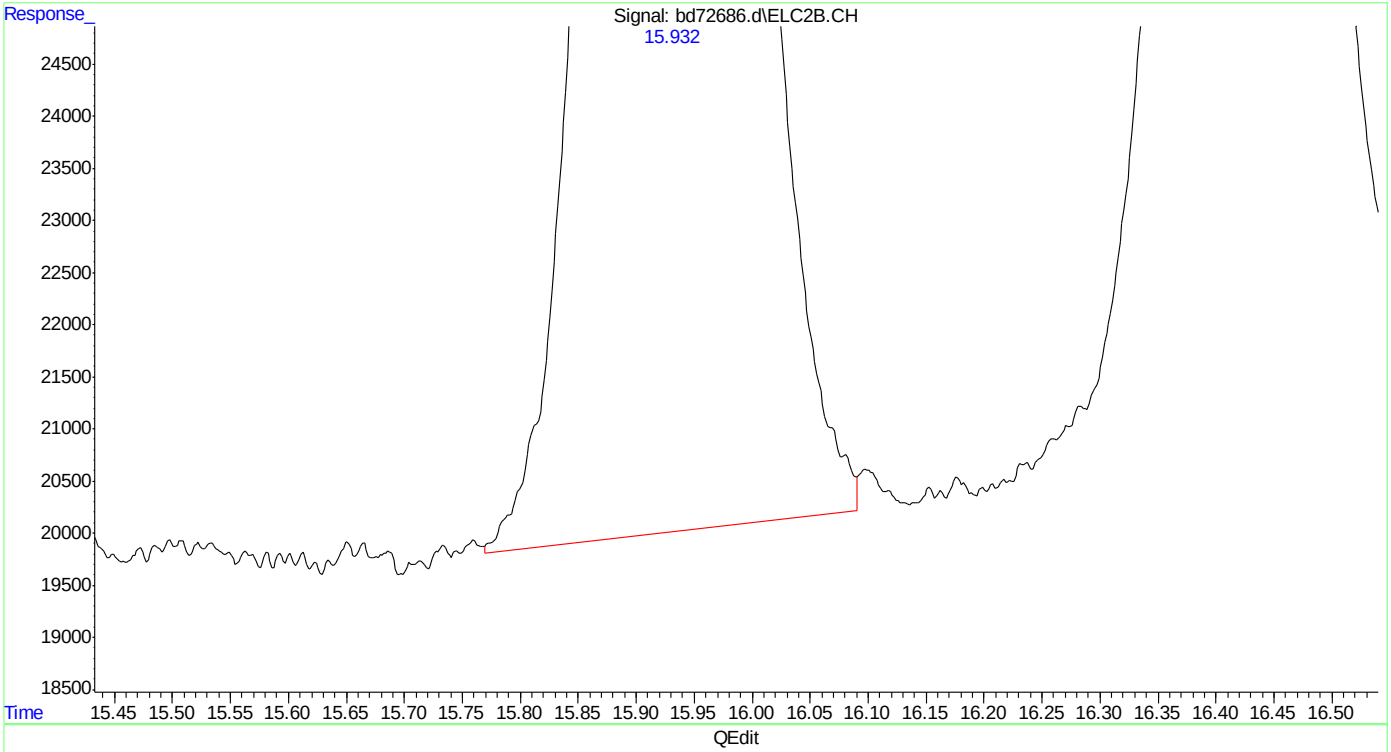
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
15.932min 4.786 ppb
response 2231303

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:05 2016 Page: 1

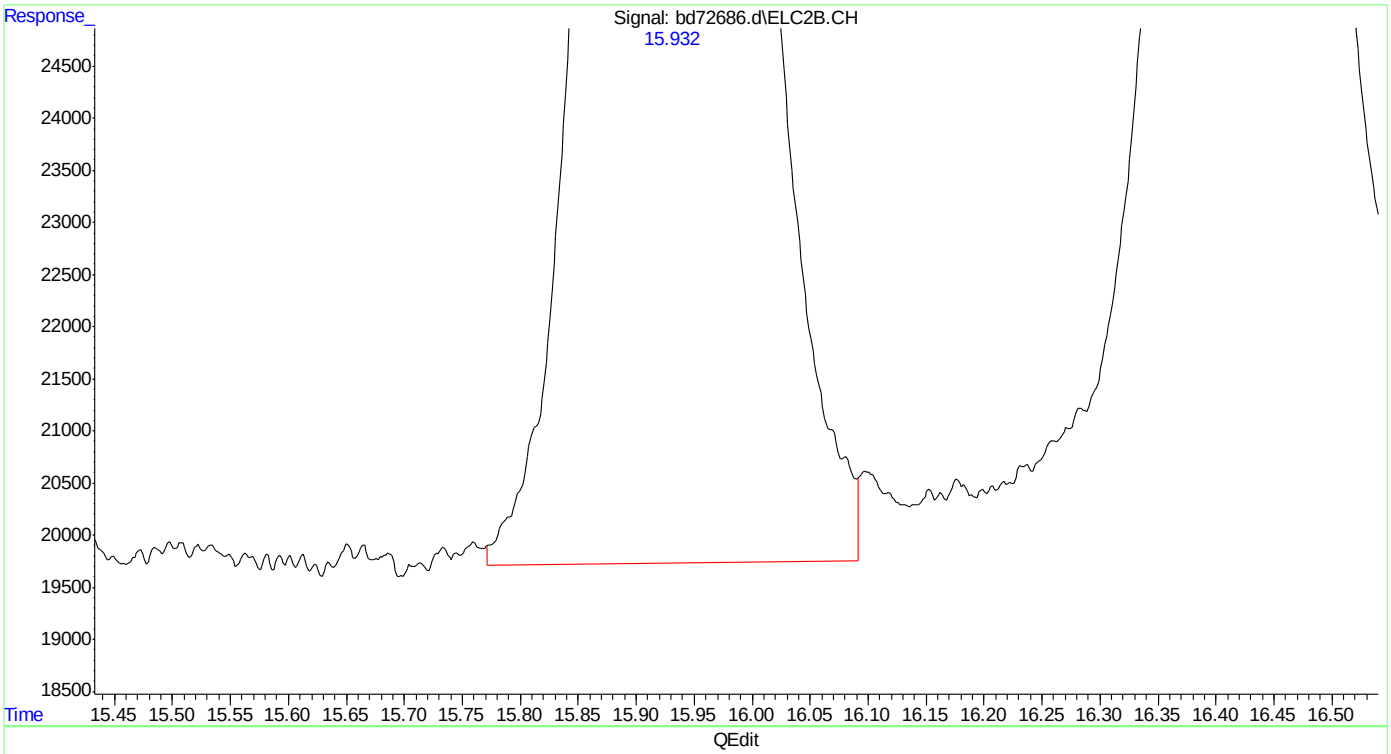
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2
15.932min 4.901 ppb m
response 2284991

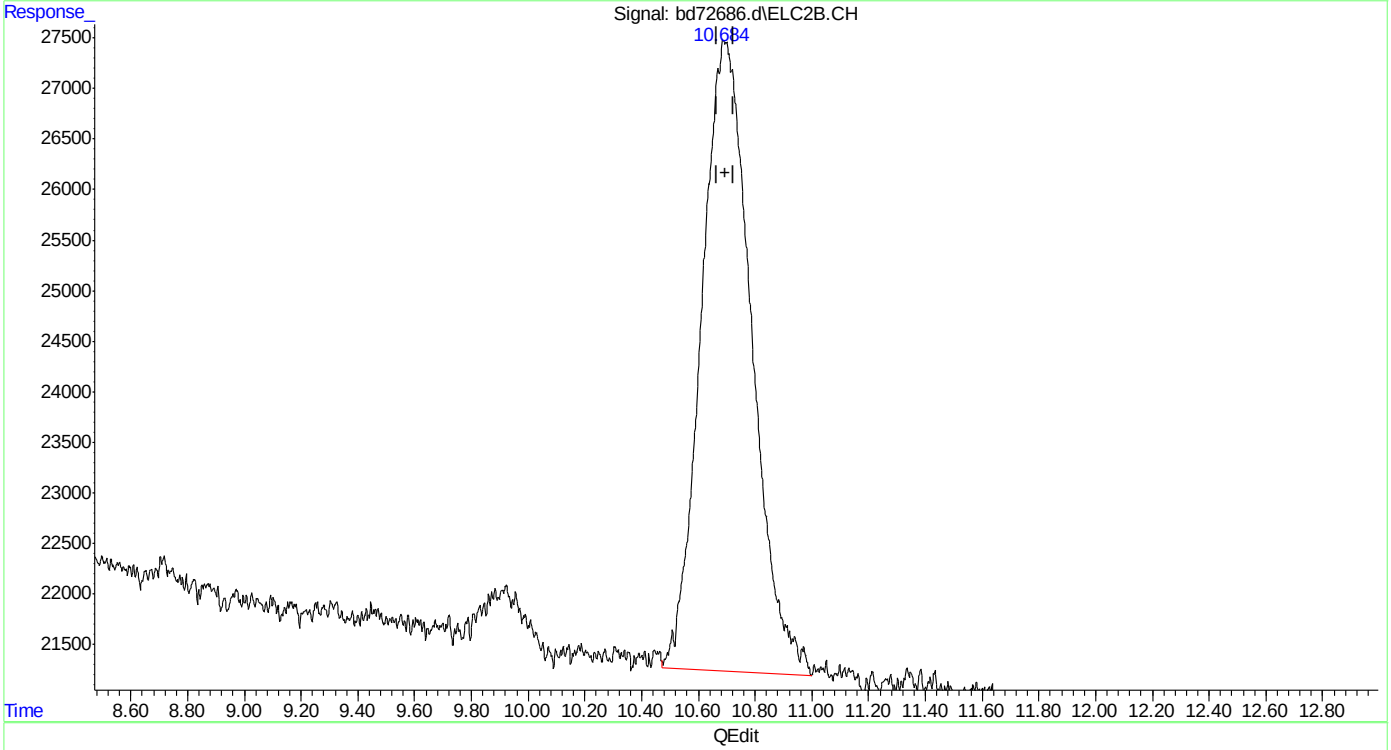
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:14 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.684min 4.929 ppb m
response 768191

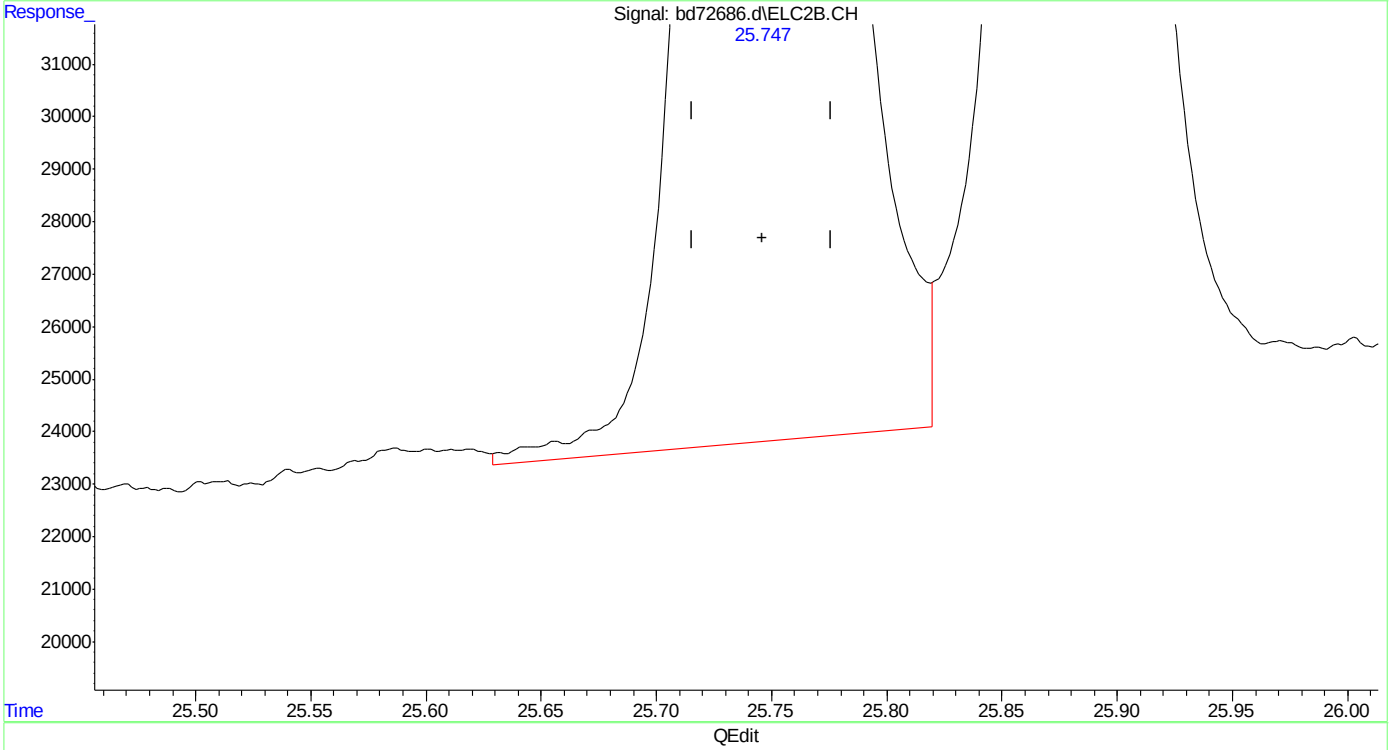
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:27 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.747min 5.006 ppb
response 2305795

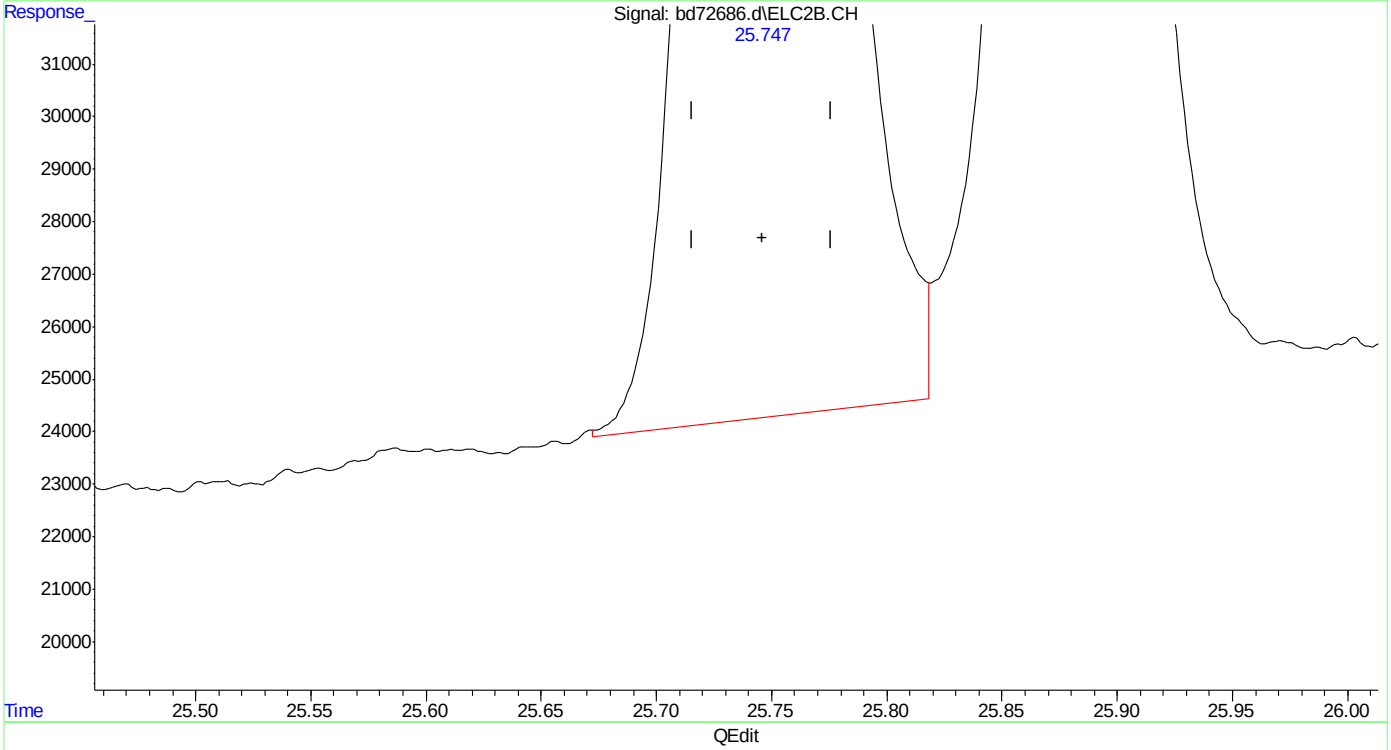
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.747min 4.900 ppb m
response 2257211

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3572-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.422	1412065	1.927 ppb	m
Spiked Amount 50.000		Recovery =	3.85%	
9) s 2,3,4-trifluorotoluene	21.238	1015129	1.784 ppb	m
Spiked Amount 50.000		Recovery =	3.57%	
25) s fluorobenzene #2	16.427	710788	2.004 ppb	m
Spiked Amount 50.000		Recovery =	4.01%	
27) s 2,3,4-trifluorotoluen...	21.241	375383	1.825 ppb	
Spiked Amount 50.000		Recovery =	3.65%	
Target Compounds				
1) h rt5.5-7	7.470	1181221	2.090 ppb	m
2) h rt7/10	9.920	1423940	2.215 ppb	m
3) mtbe	10.690	573857	1.980 ppb	m
4) h rt10/13	15.200	1543987	2.195 ppb	m
5) benzene	15.935	1508329	1.942 ppb	m
8) toluene	20.223	1483744	1.905 ppb	m
11) h rt20/25	22.840	2002361	2.479 ppb	m
13) ethylbenzene	23.173	1597064	2.033 ppb	
14) m,p-xylene	23.310	3360397	4.108 ppb	
15) o-xylene	24.031	1696702	2.058 ppb	
16) h decane	24.930	2500365	2.905 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	1822082	1.890 ppb	m
18) 1,2,4-trimethylbenzene	25.749	1811882	2.081 ppb	m
19) h butylcyclohexane	25.908	2416889	2.641 ppb	m
20) naphthalene	28.755	633669	1.476 ppb	m
23) mtbe #2	10.705	319987	2.043 ppb	m
24) benzene #2	15.931	943892	2.028 ppb	
26) toluene #2	20.223	898559	2.095 ppb	
28) ethylbenzene #2	23.174	826337	2.111 ppb	
29) m,p-xylene #2	23.309	2027328	4.251 ppb	
30) o-xylene #2	24.028	873175	2.137 ppb	m
31) t 1,3,5-trimethylbenzen...	25.271	1355890	2.068 ppb	
32) 1,2,4-trimethylbenzen...	25.748	998600	2.174 ppb	m
33) naphthalene #2	28.753	472807	1.541 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	993959	2.162 ppb	m

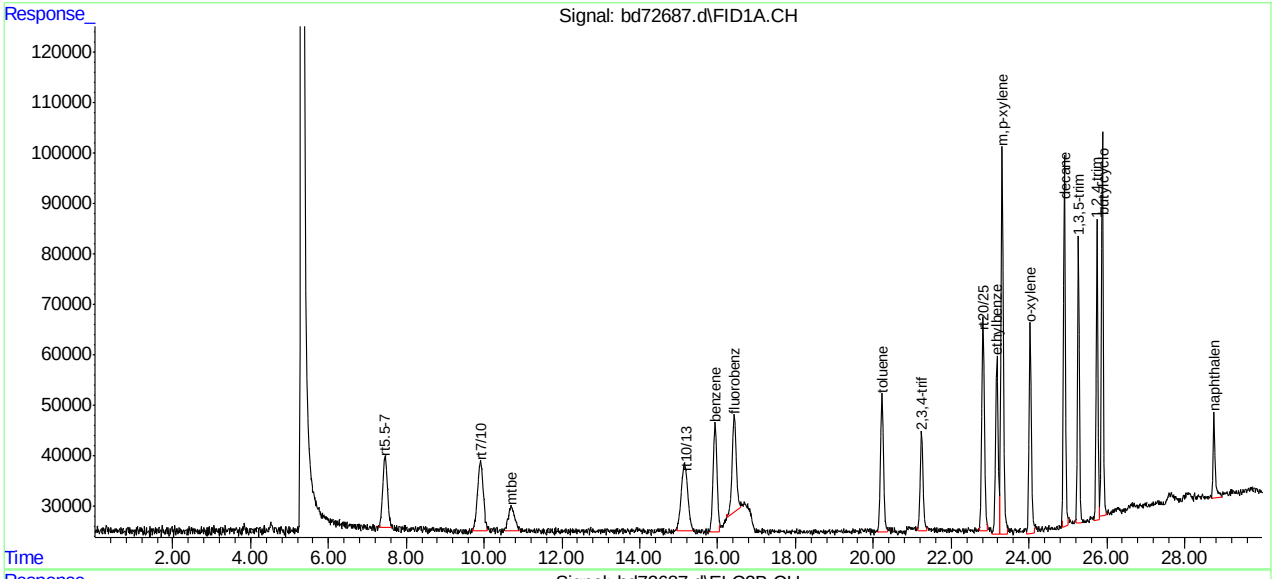
(f)=RT Delta > 1/2 Window (m)=manual int.

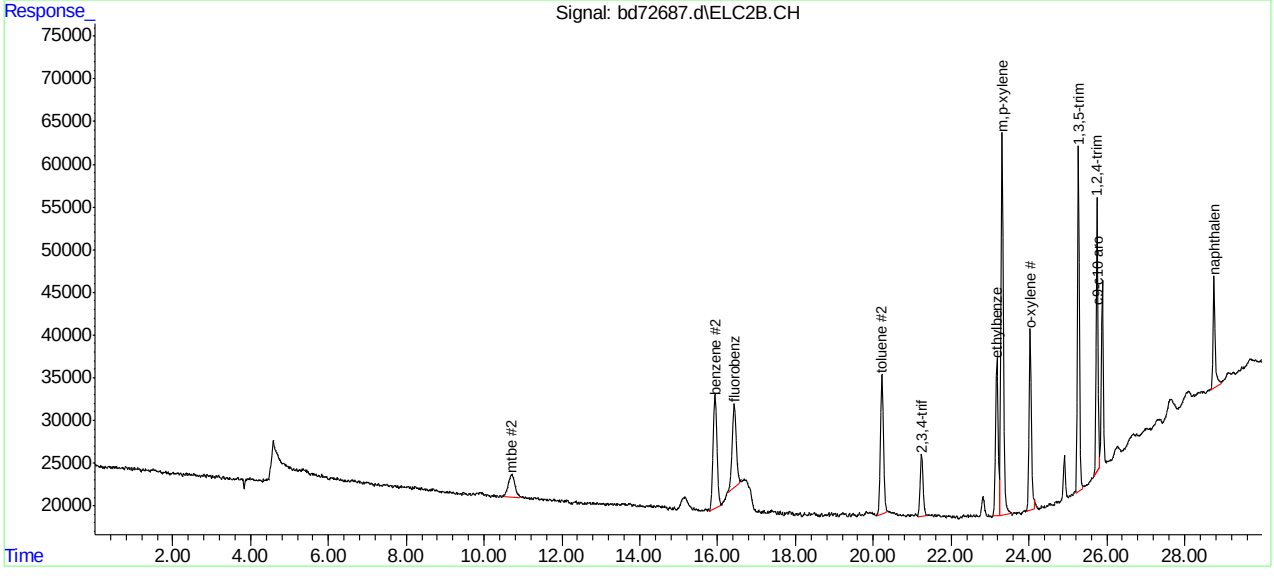
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3572-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

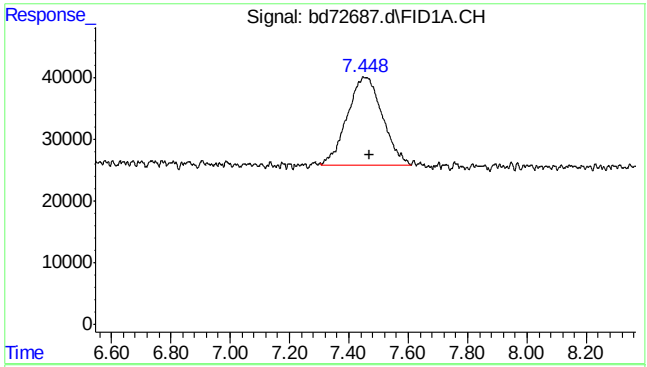
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



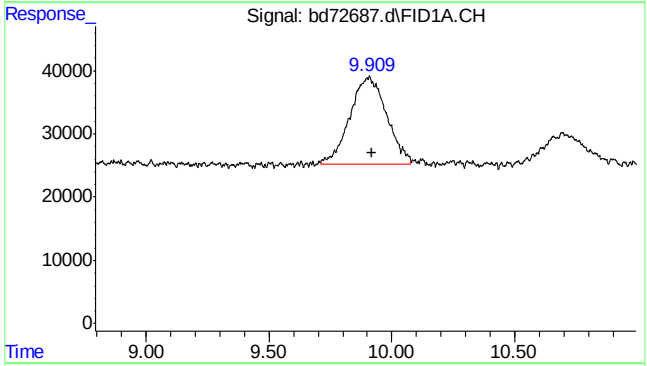


SGS ACCUTEST MC45969



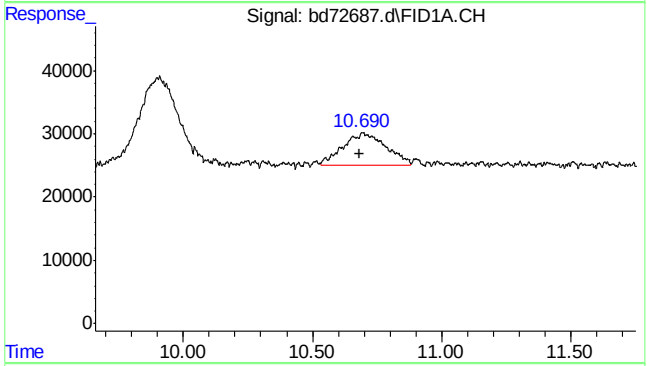
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1181221
Conc: 2.09 ppb m



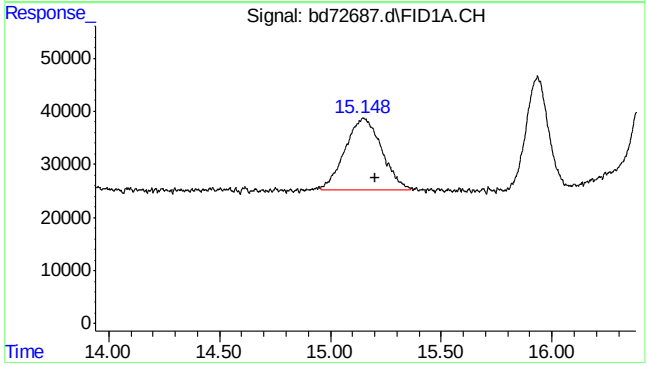
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 1423940
Conc: 2.22 ppb m



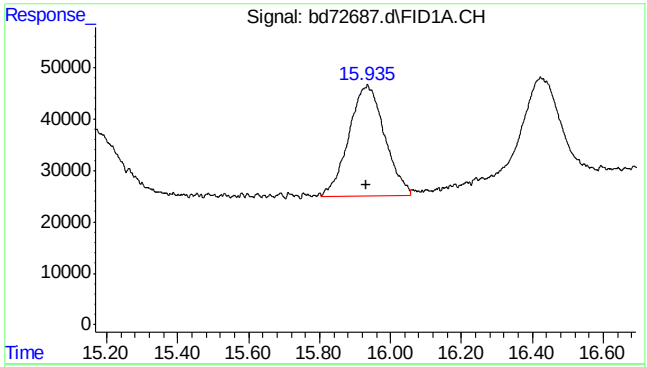
#3 mtbe

R.T.: 10.690 min
Delta R.T.: 0.007 min
Response: 573857
Conc: 1.98 ppb m



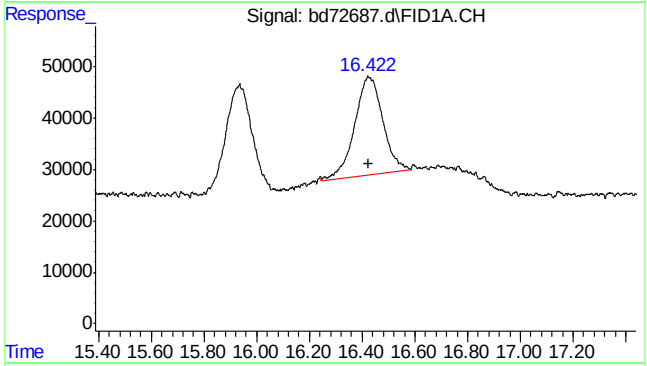
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1543987
Conc: 2.19 ppb m



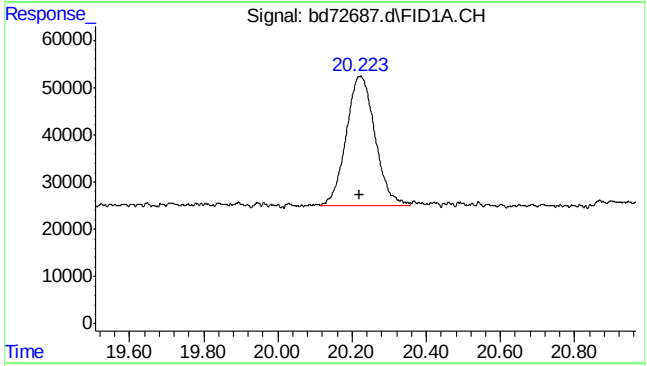
#5 benzene

R.T.: 15.935 min
Delta R.T.: 0.002 min
Response: 1508329
Conc: 1.94 ppb m



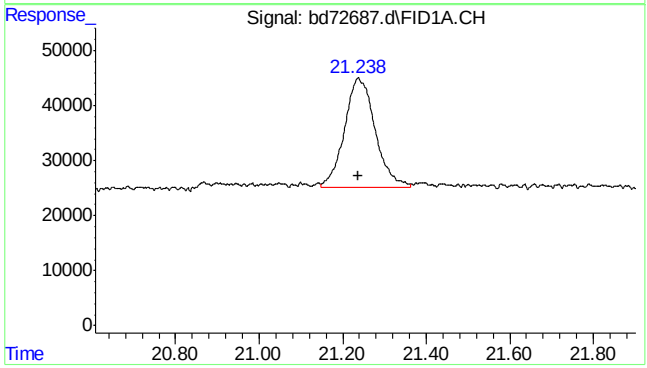
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 1412065
Conc: 1.93 ppb m



#8 toluene

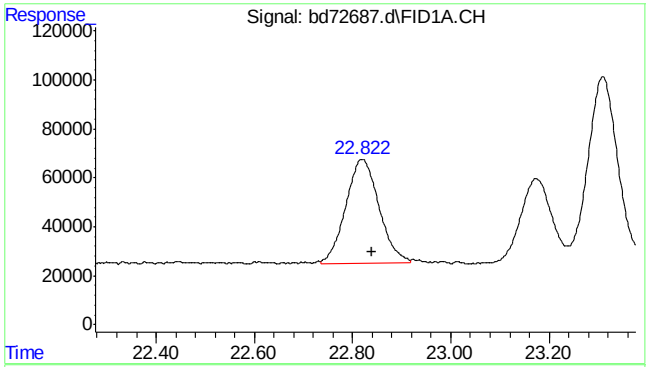
R.T.: 20.223 min
Delta R.T.: 0.003 min
Response: 1483744
Conc: 1.90 ppb m



#9 2,3,4-trifluorotoluene

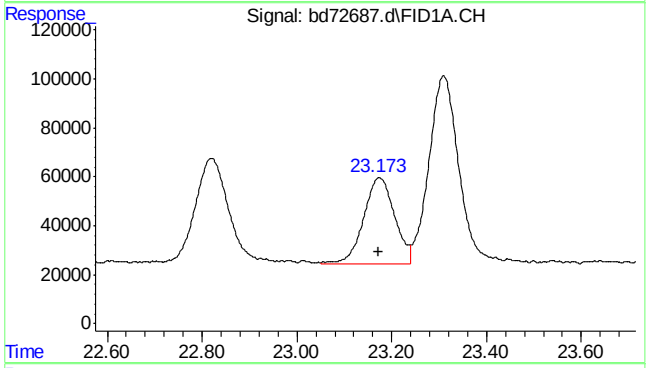
R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 1015129
Conc: 1.78 ppb m

SGS ACCUTEST MC45969



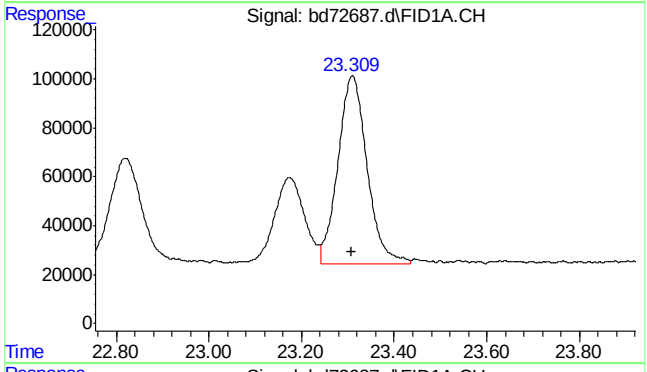
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 2002361
Conc: 2.48 ppb m



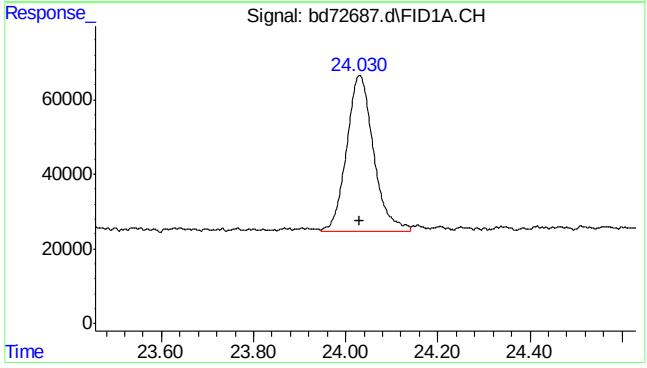
#13 ethylbenzene

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 1597064
Conc: 2.03 ppb



#14 m,p-xylene

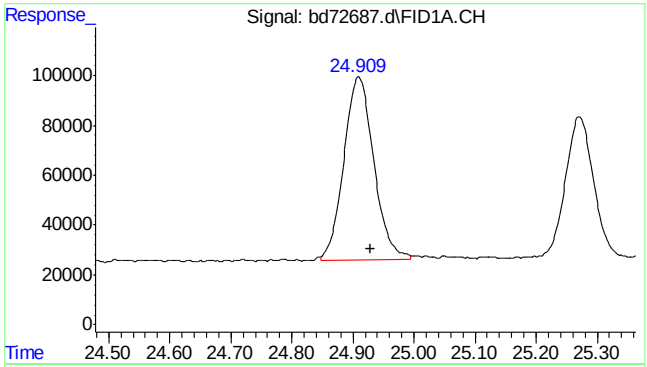
R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 3360397
Conc: 4.11 ppb



#15 o-xylene

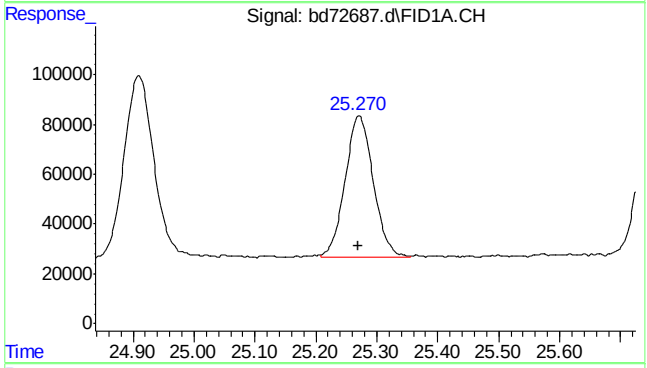
R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 1696702
Conc: 2.06 ppb

SGS ACCUTEST MC45969



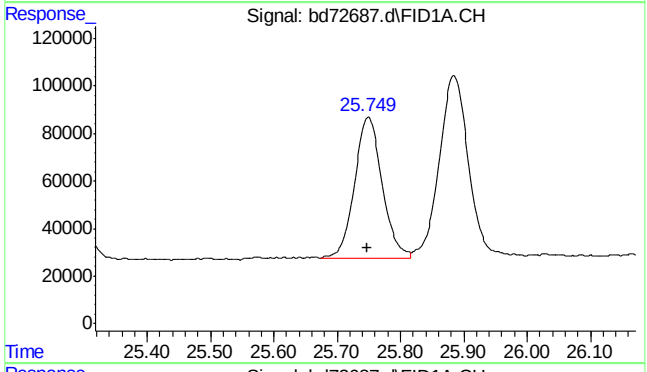
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 2500365
Conc: 2.91 ppb m



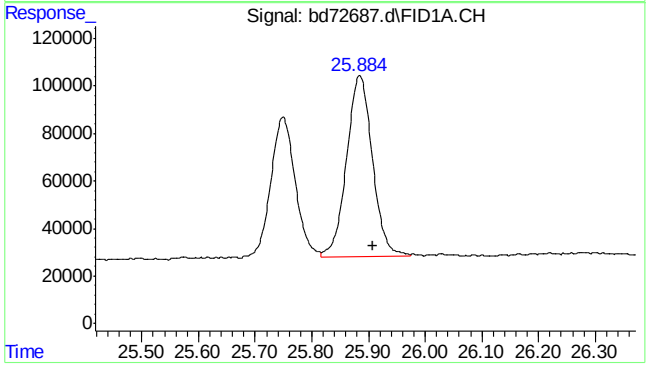
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 1822082
Conc: 1.89 ppb m



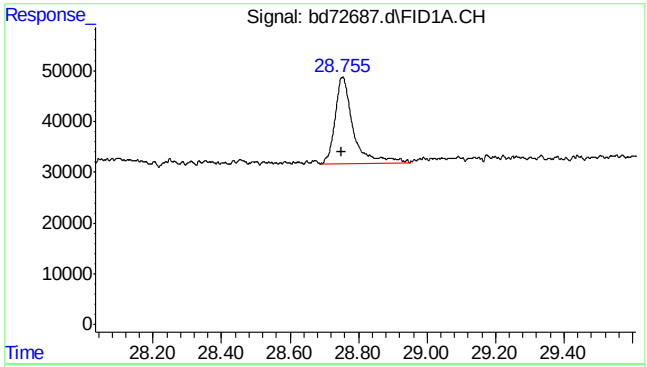
#18 1,2,4-trimethylbenzene

R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 1811882
Conc: 2.08 ppb m



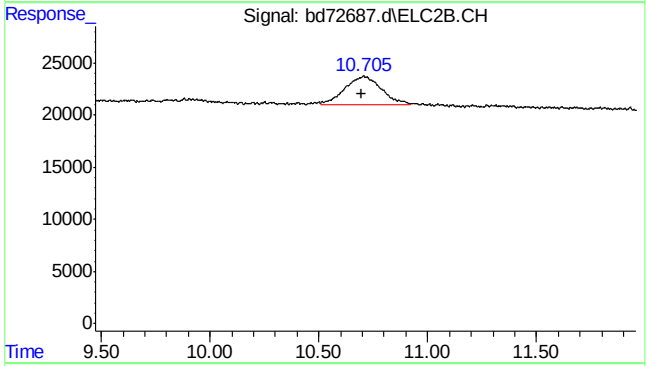
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 2416889
Conc: 2.64 ppb m



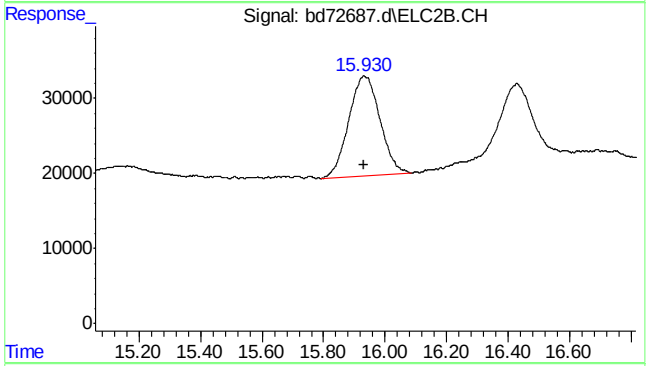
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 633669
Conc: 1.48 ppb m



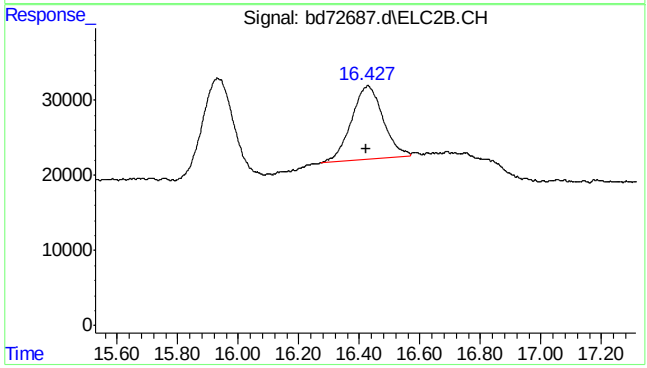
#23 mtbe #2

R.T.: 10.705 min
Delta R.T.: 0.009 min
Response: 319987
Conc: 2.04 ppb m



#24 benzene #2

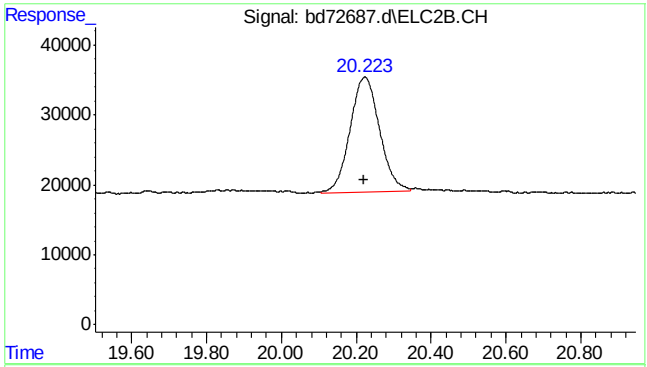
R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 943892
Conc: 2.03 ppb



#25 fluorobenzene #2

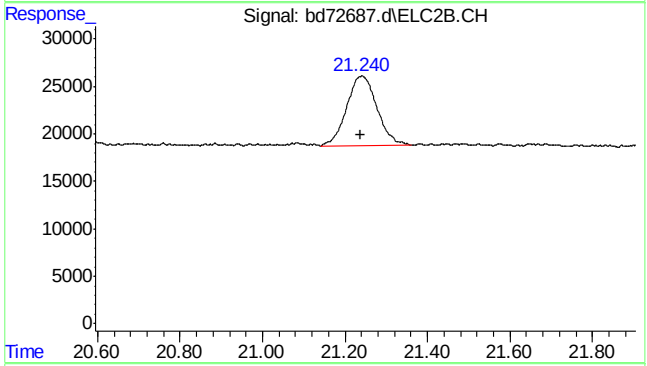
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 710788
Conc: 2.00 ppb m

SGS ACCUTEST MC45969



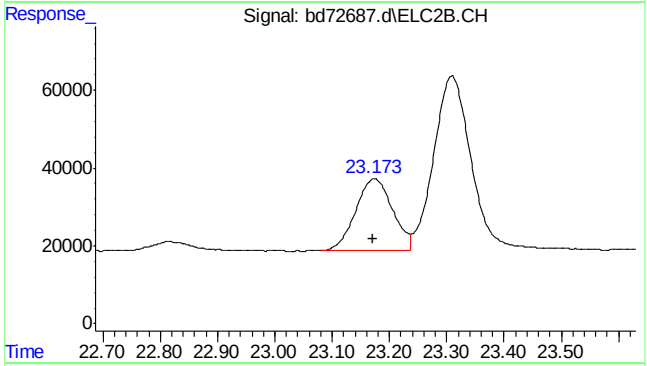
#26 toluene #2

R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 898559
Conc: 2.10 ppb



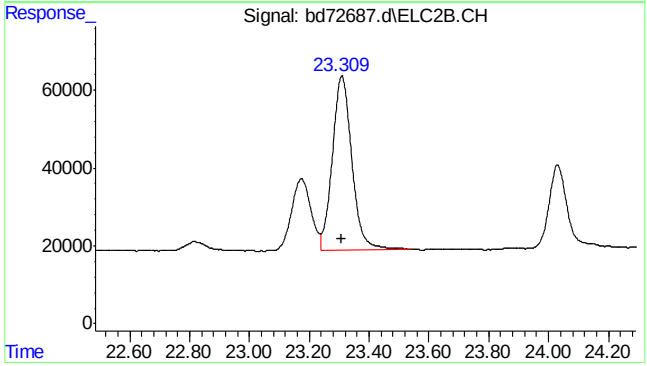
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 375383
Conc: 1.82 ppb



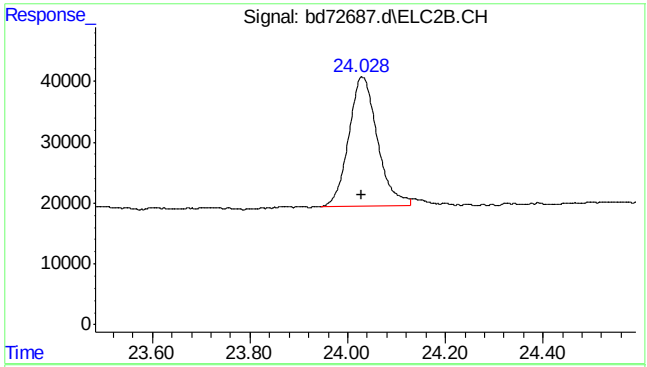
#28 ethylbenzene #2

R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 826337
Conc: 2.11 ppb



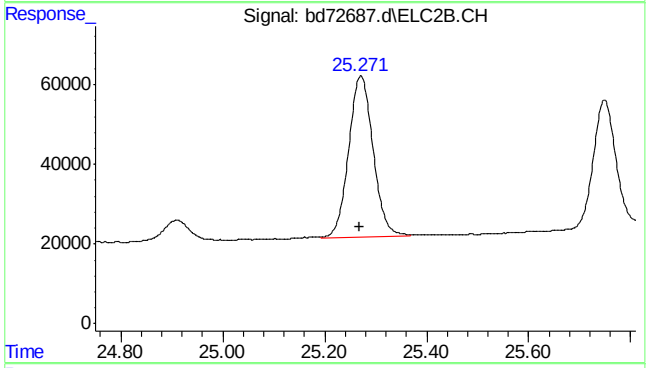
#29 m,p-xylene #2

R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 2027328
Conc: 4.25 ppb



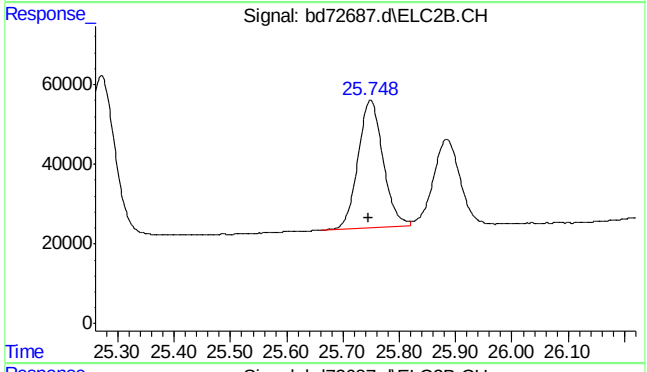
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 873175
Conc: 2.14 ppb m



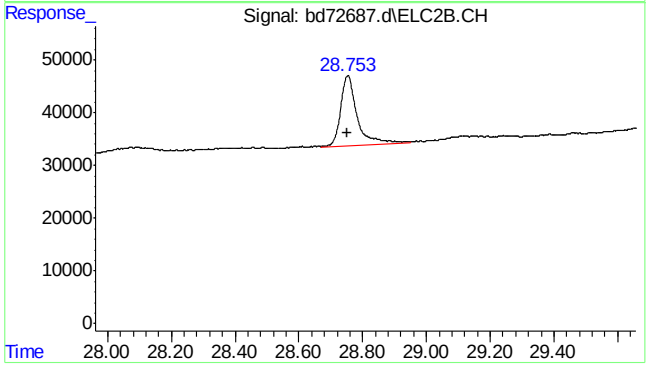
#31 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 1355890
Conc: 2.07 ppb



#32 1,2,4-trimethylbenzene #2

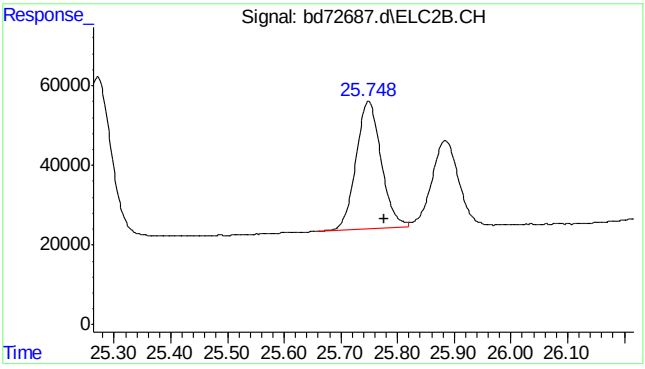
R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 998600
Conc: 2.17 ppb m



#33 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 472807
Conc: 1.54 ppb m

SGS ACCUTEST MC45969



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	993959
Conc:	2.16 ppb m

7.5.8

7

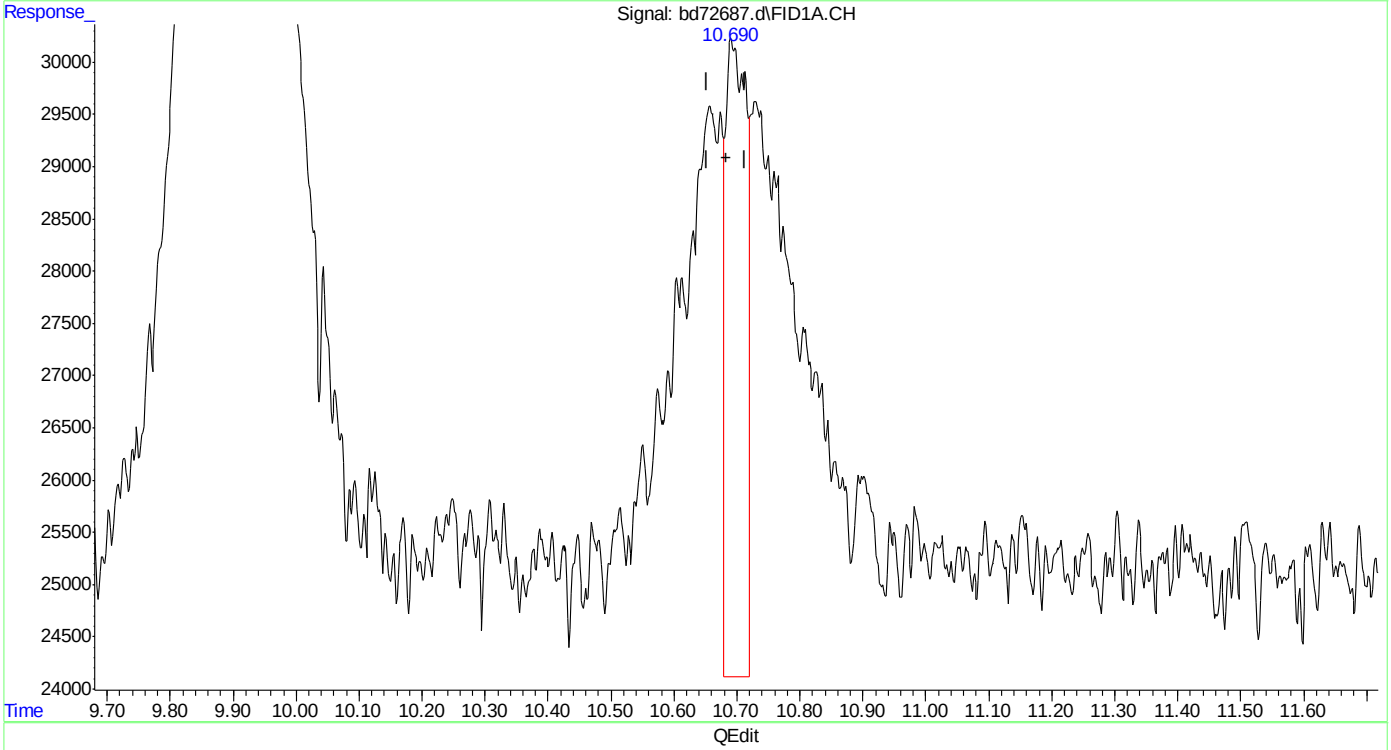
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
10.692min 0.480 ppb
response 139132

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:08 2016

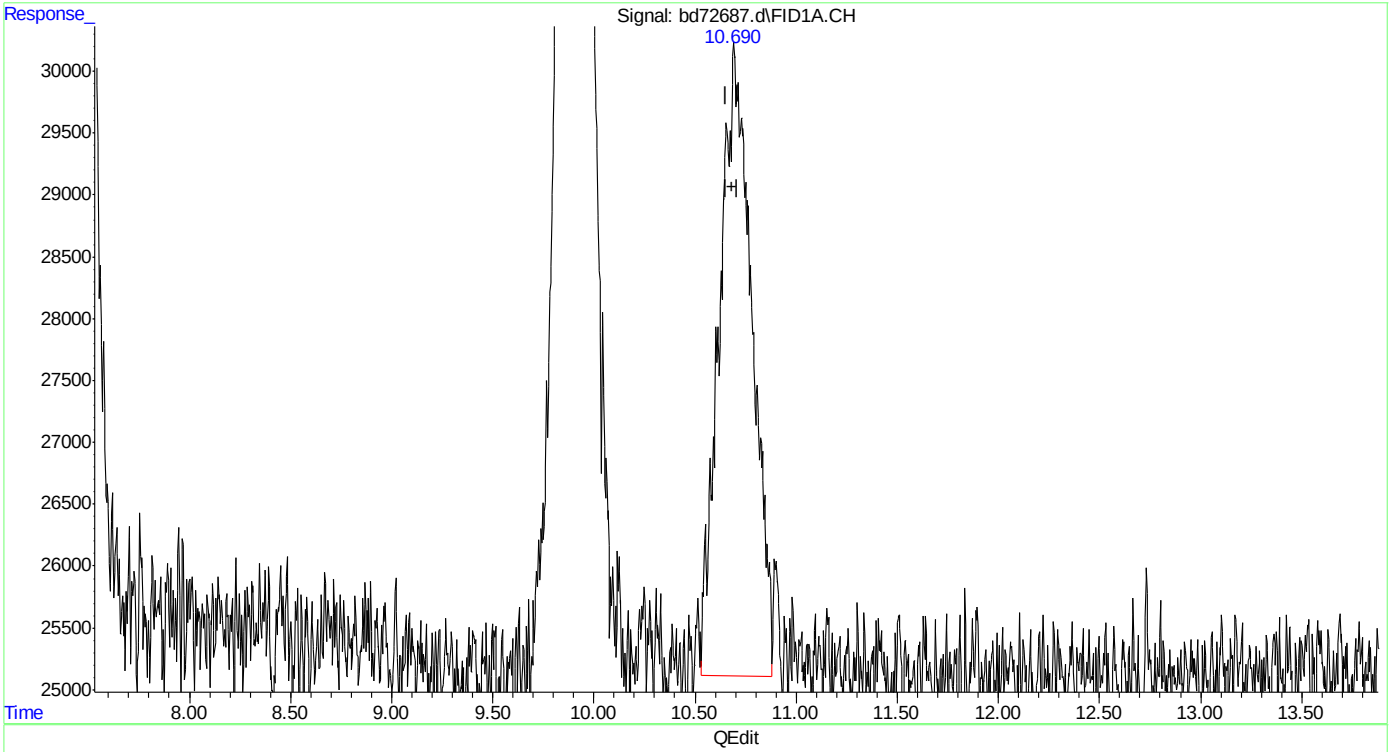
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(3) mtbe
10.690min 1.980 ppb m
response 573857

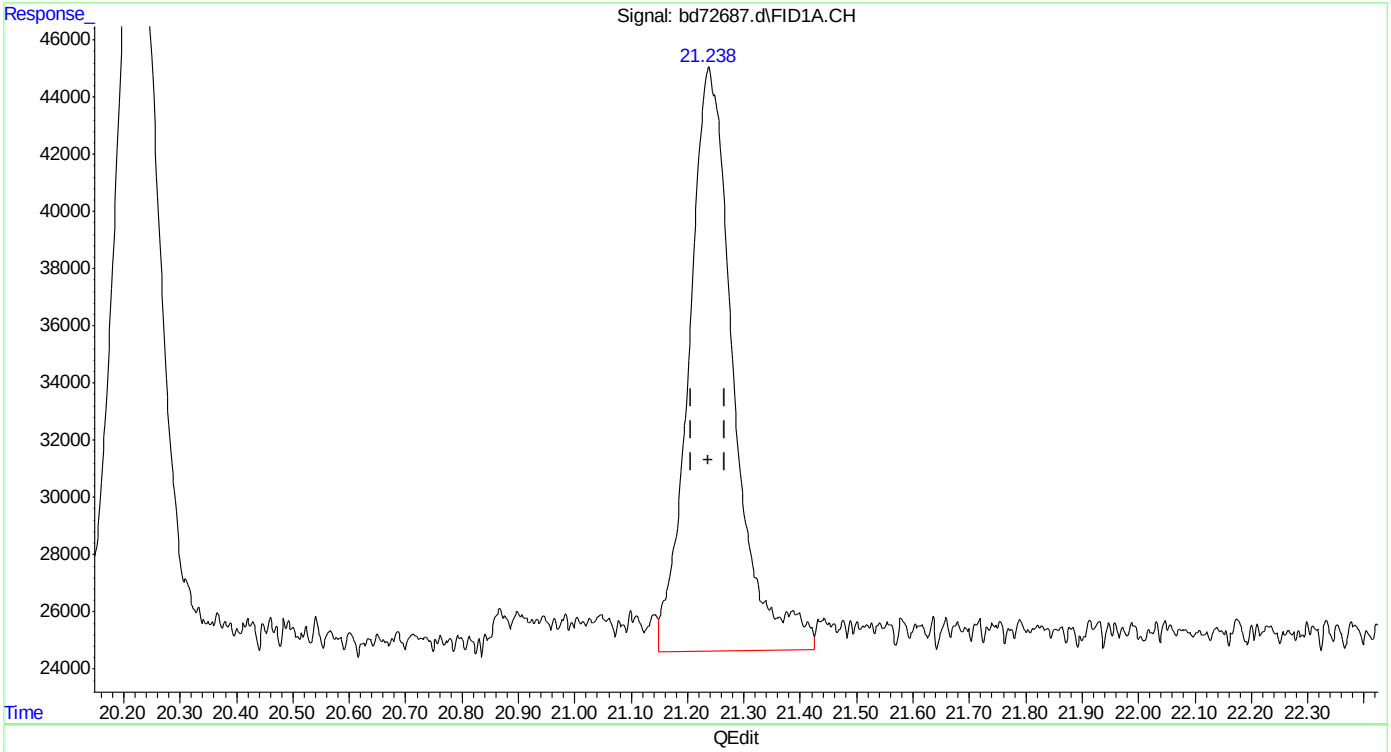
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:22 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)

21.238min 1.972 ppb

response 1122116

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:43:28 2016

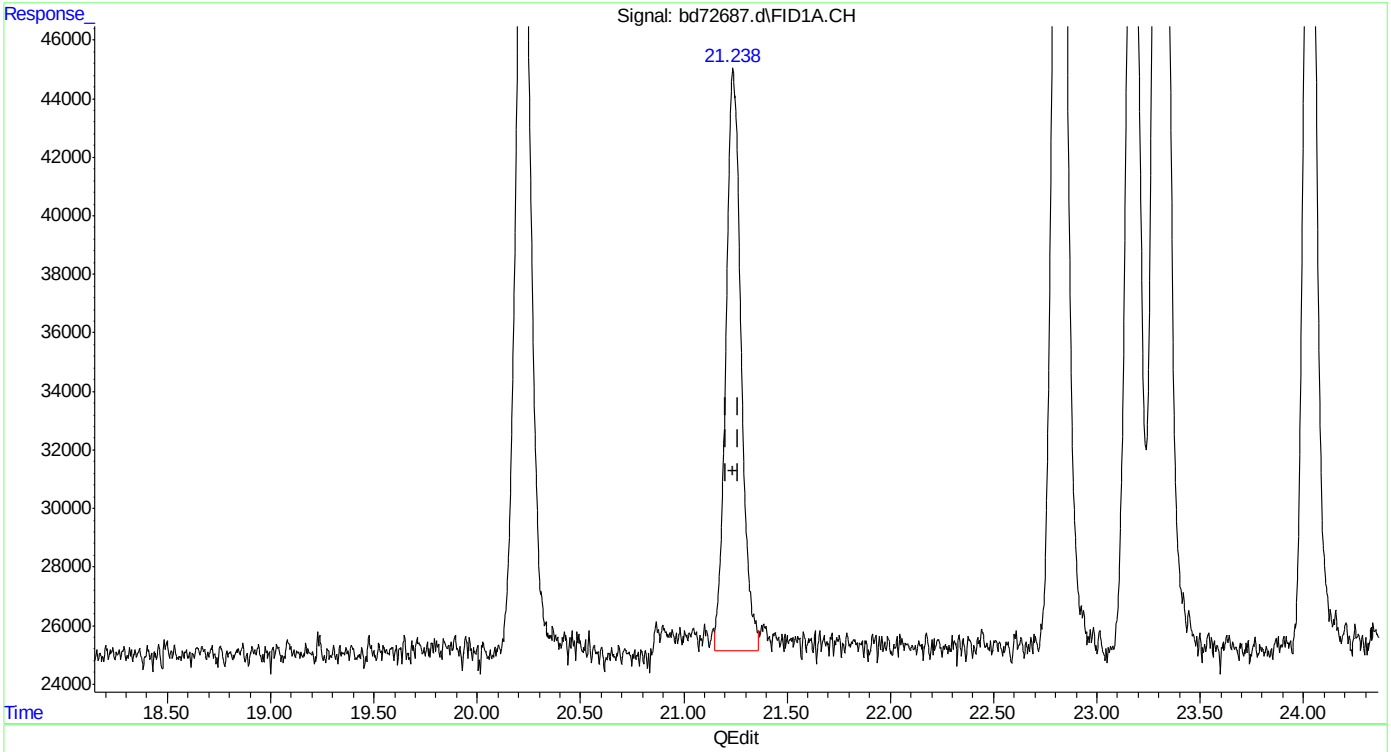
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
21.238min 1.784 ppb m
response 1015129

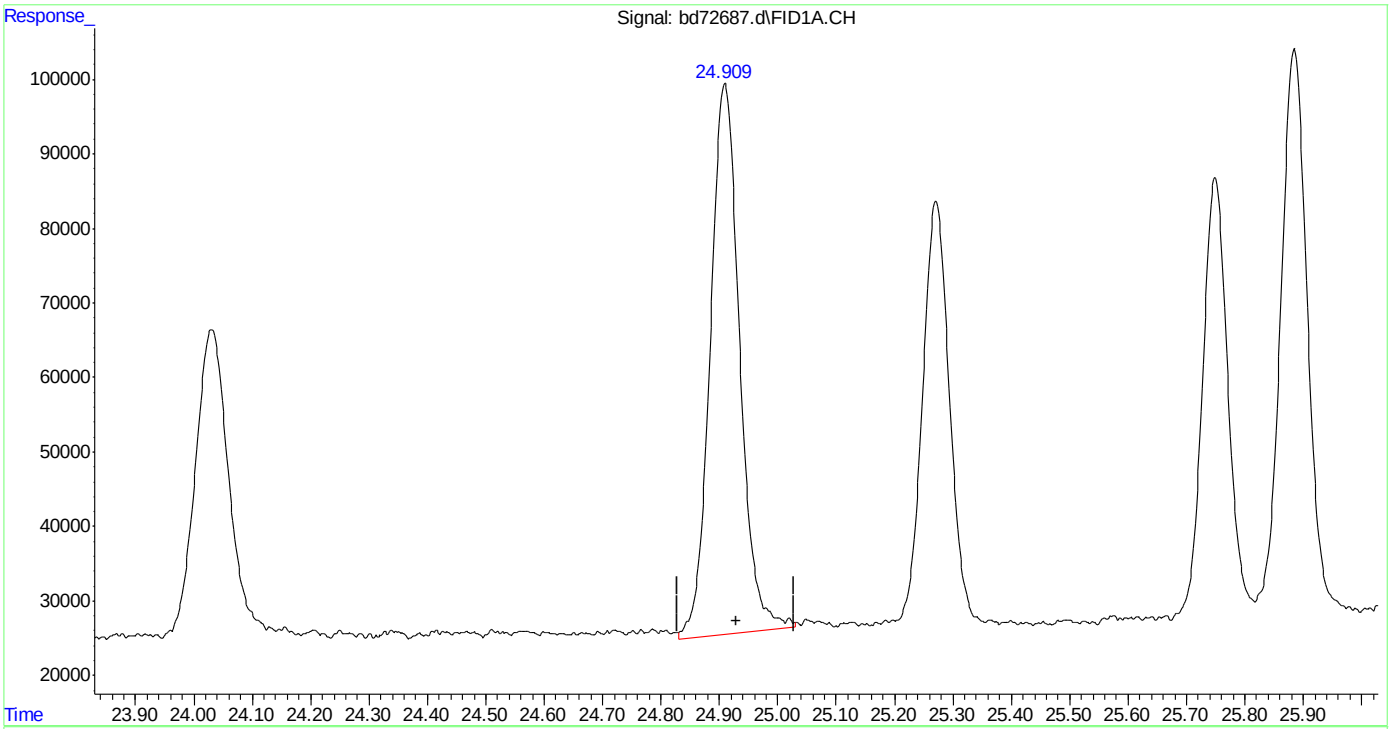
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:43:45 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(16) decane (h)
24.930min 3.013 ppb
response 2593178

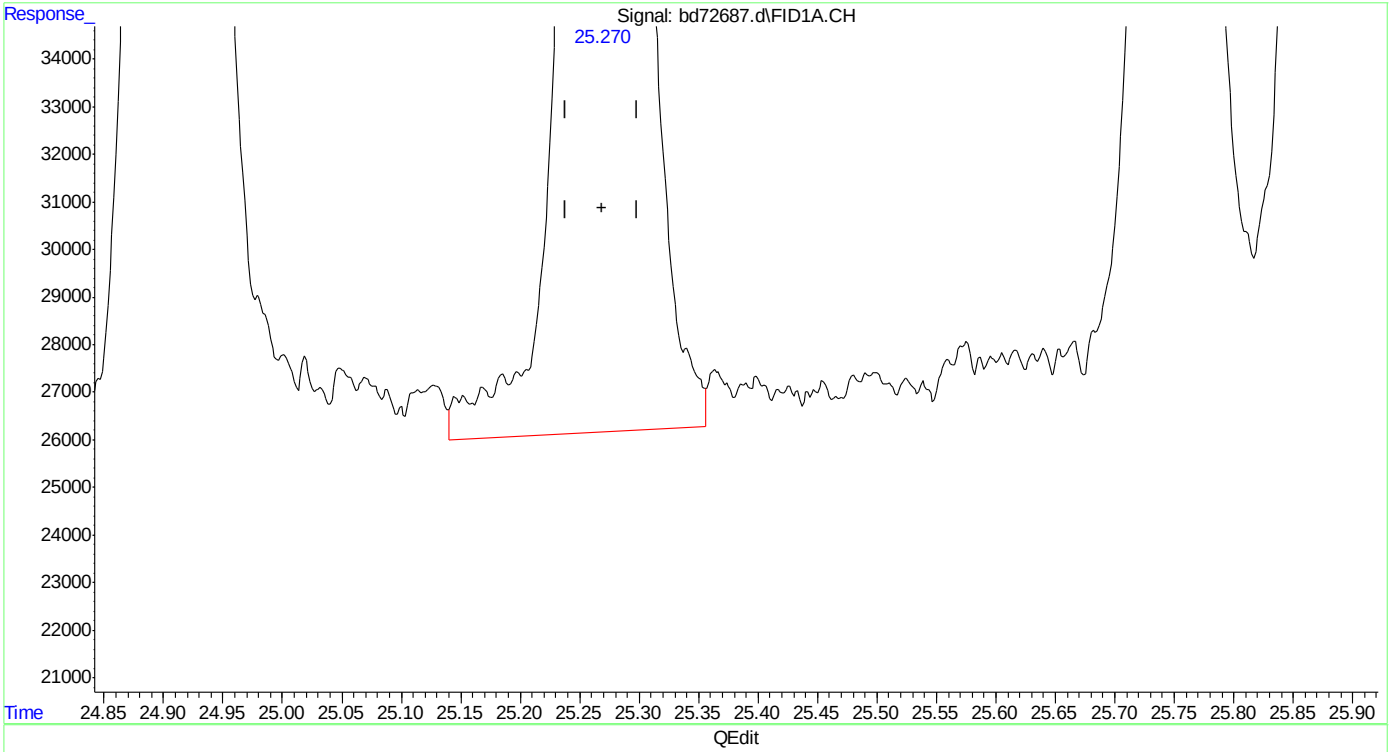
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
25.271min 1.986 ppb
response 1914176

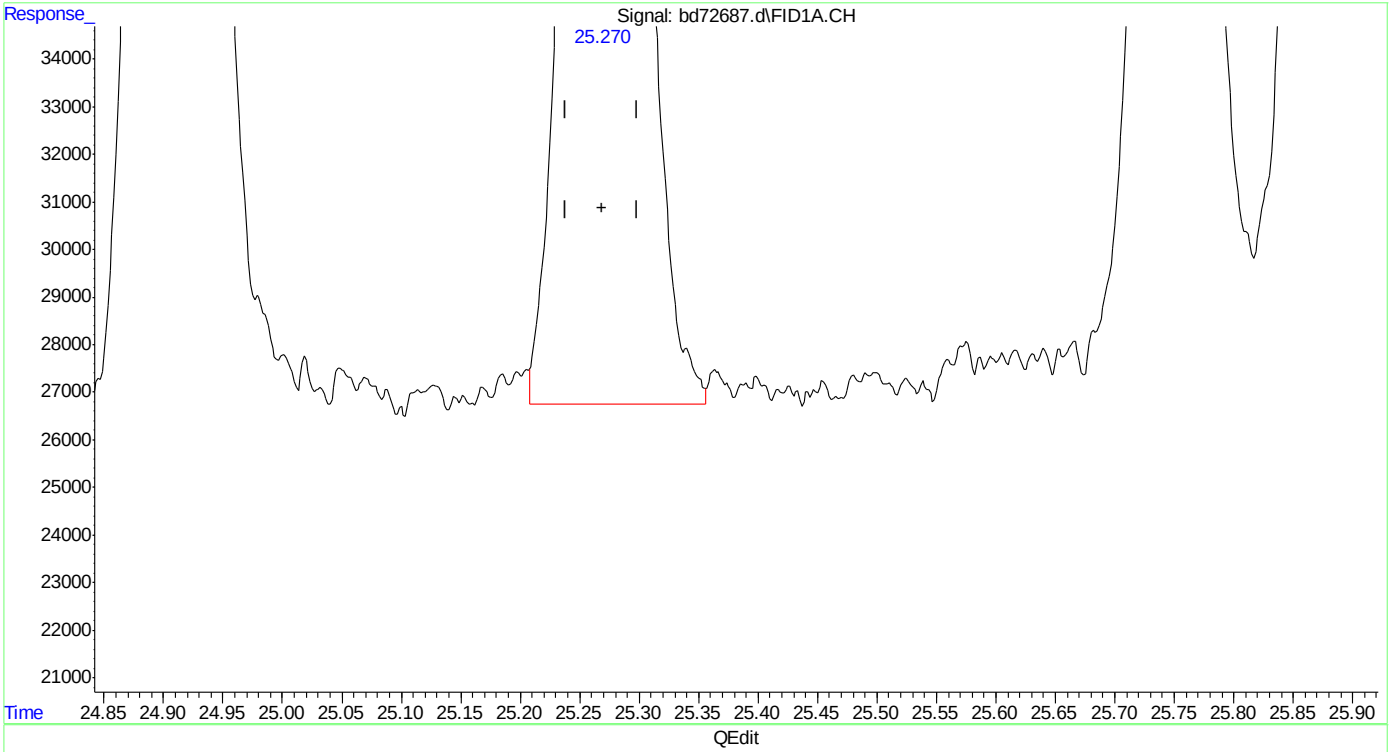
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
25.270min 1.890 ppb m
response 1822082

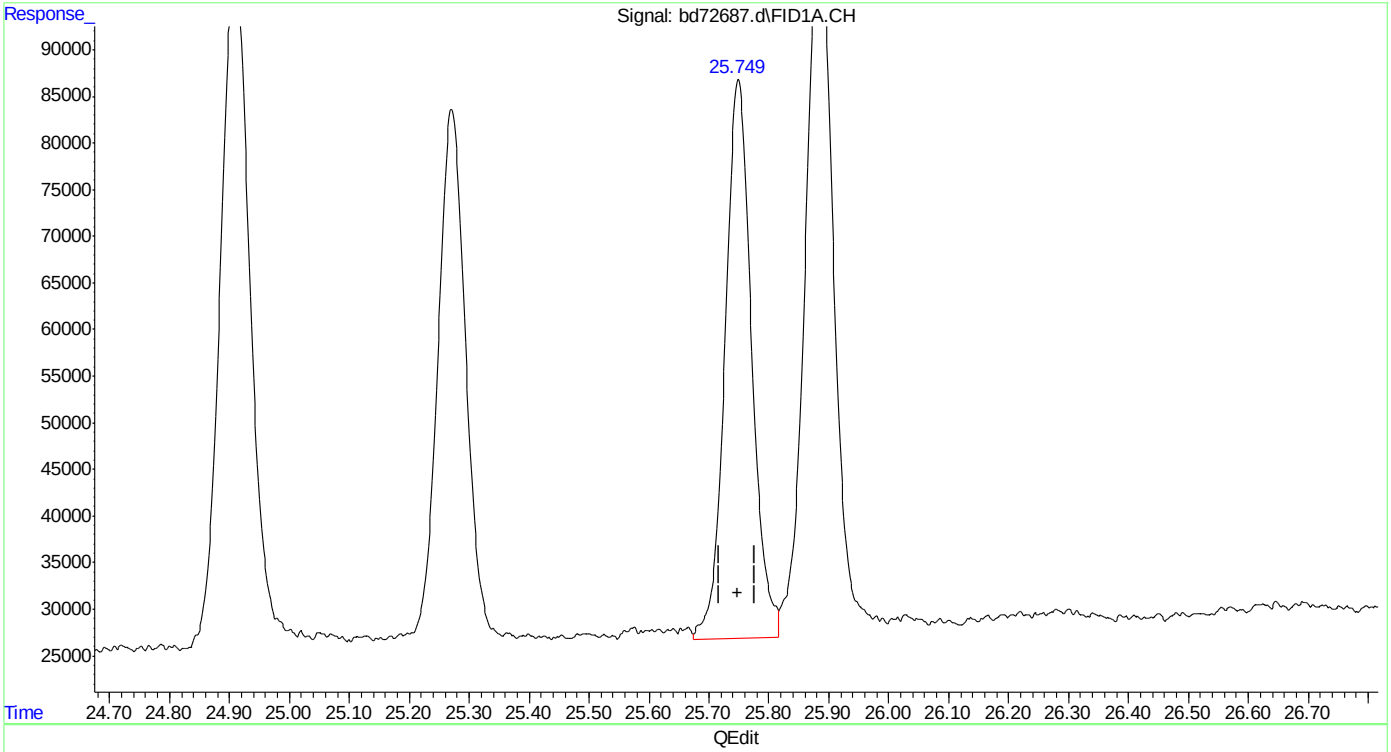
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.749min 2.134 ppb
response 1858310

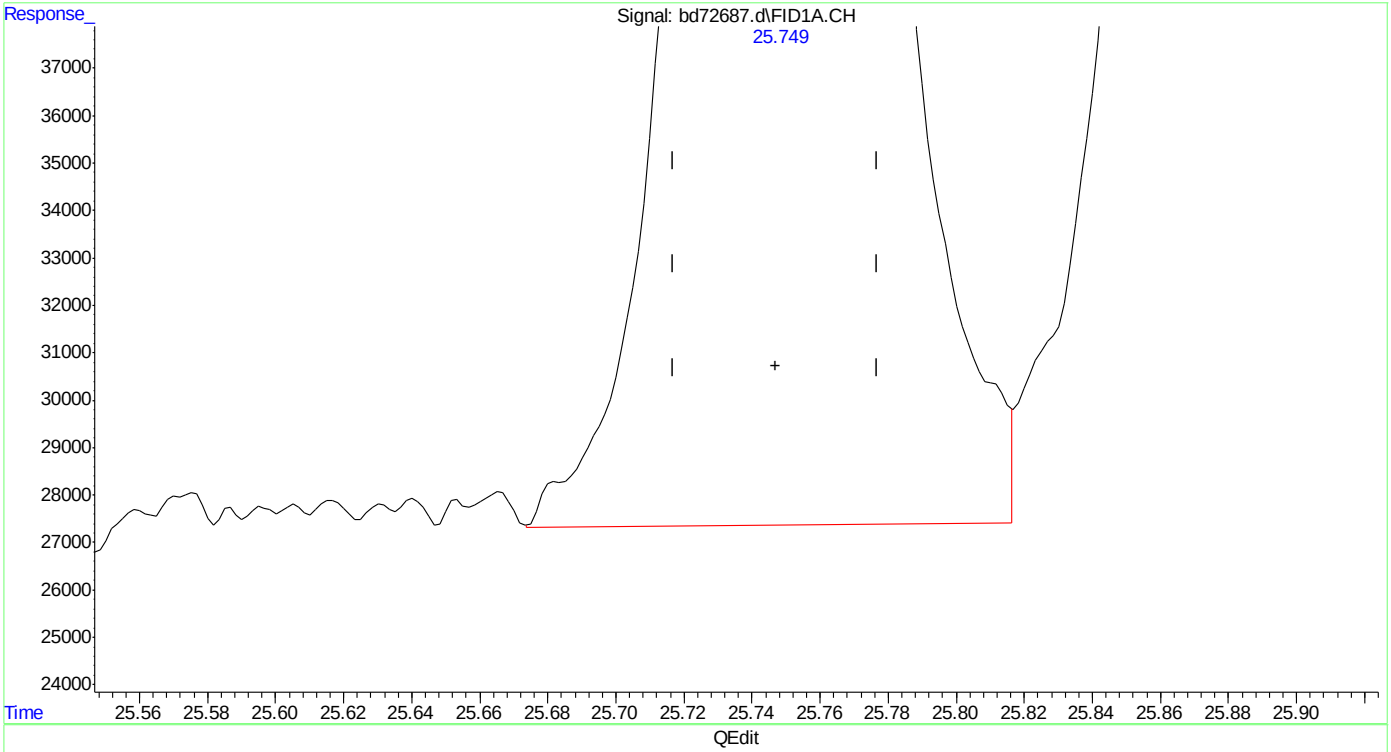
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.749min 2.081 ppb m
response 1811882

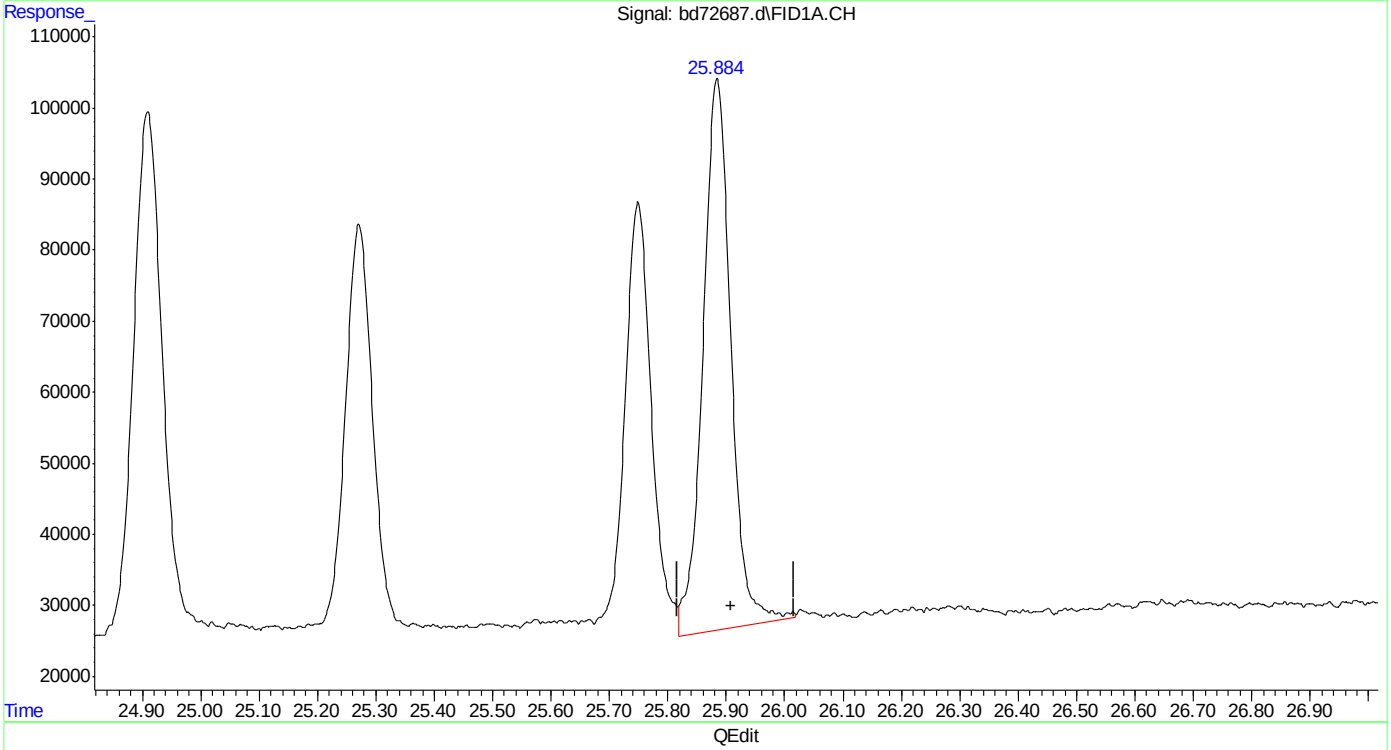
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:36 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) butylcyclohexane (h)
25.908min 2.819 ppb
response 2579118

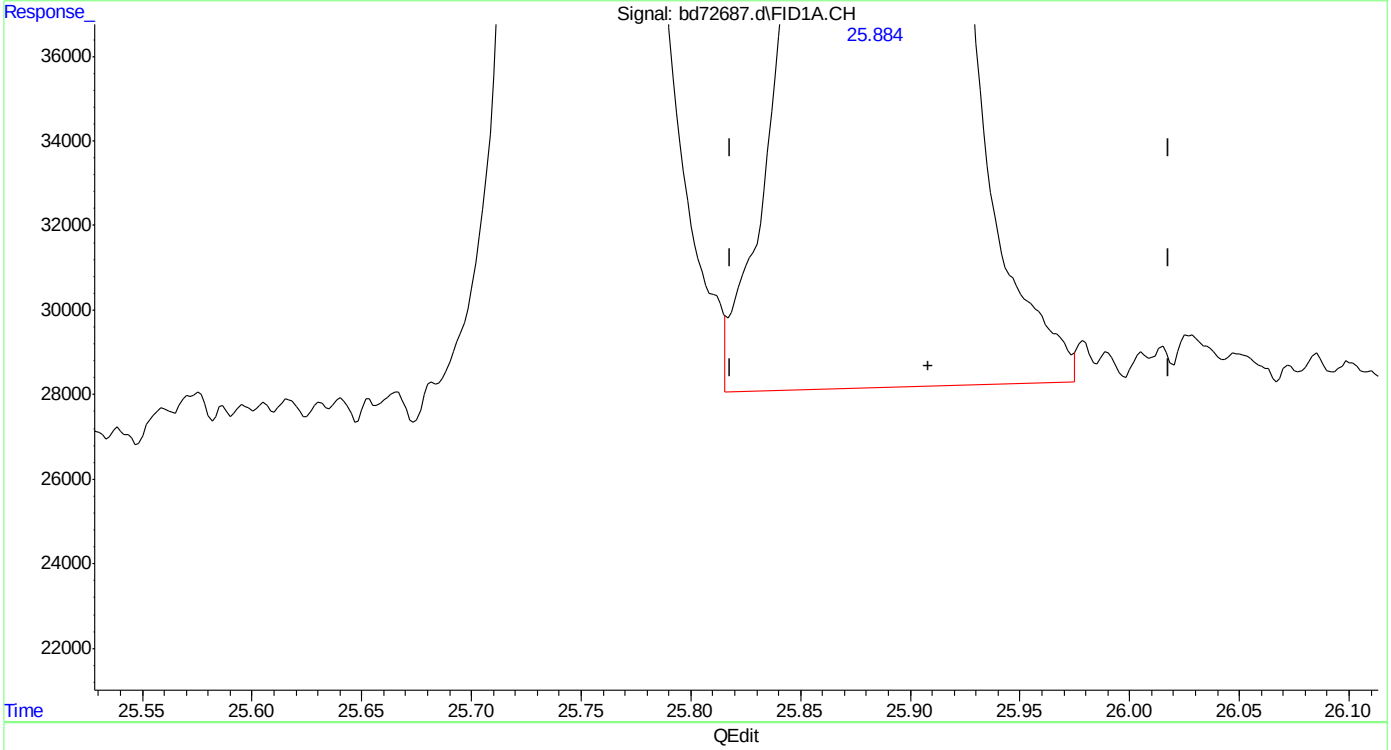
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:40 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) butylcyclohexane (h)
25.908min 2.641 ppb m
response 2416889

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:47 2016

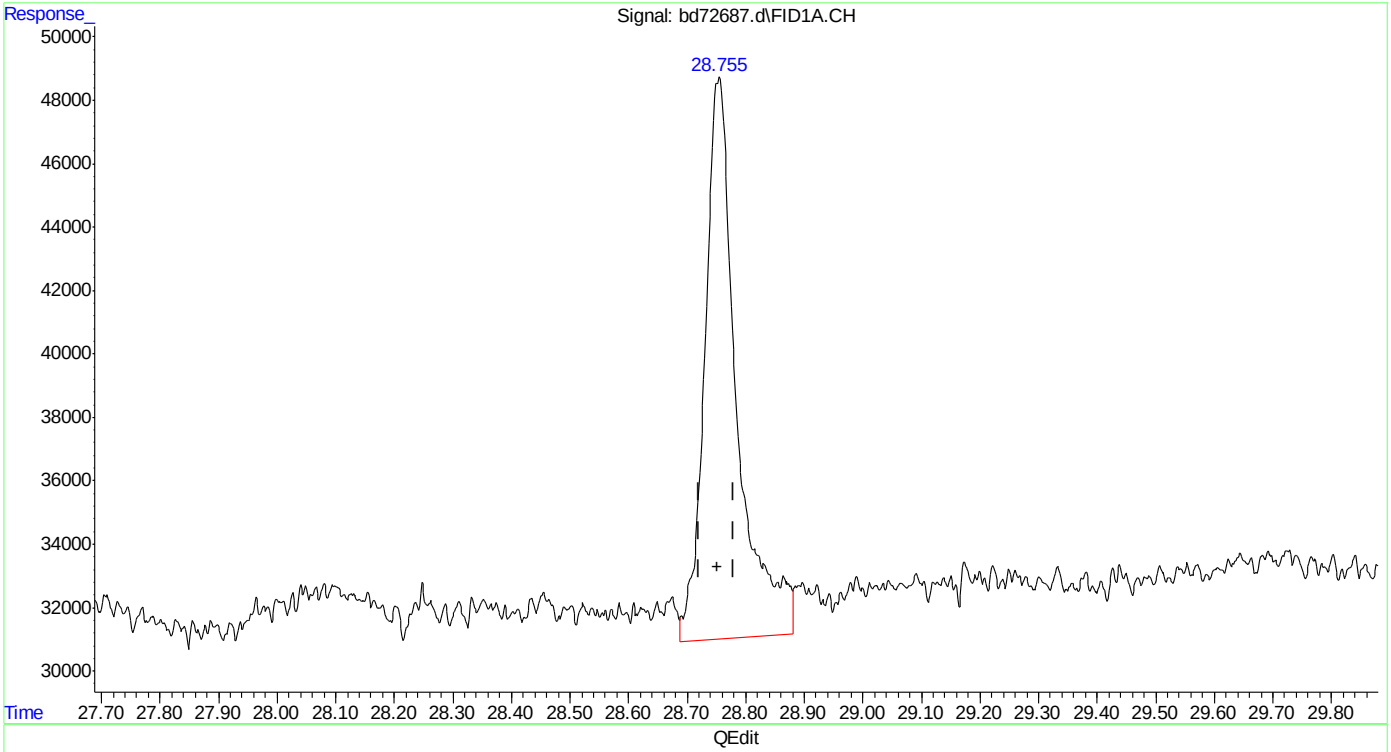
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.754min 1.572 ppb
response 674834

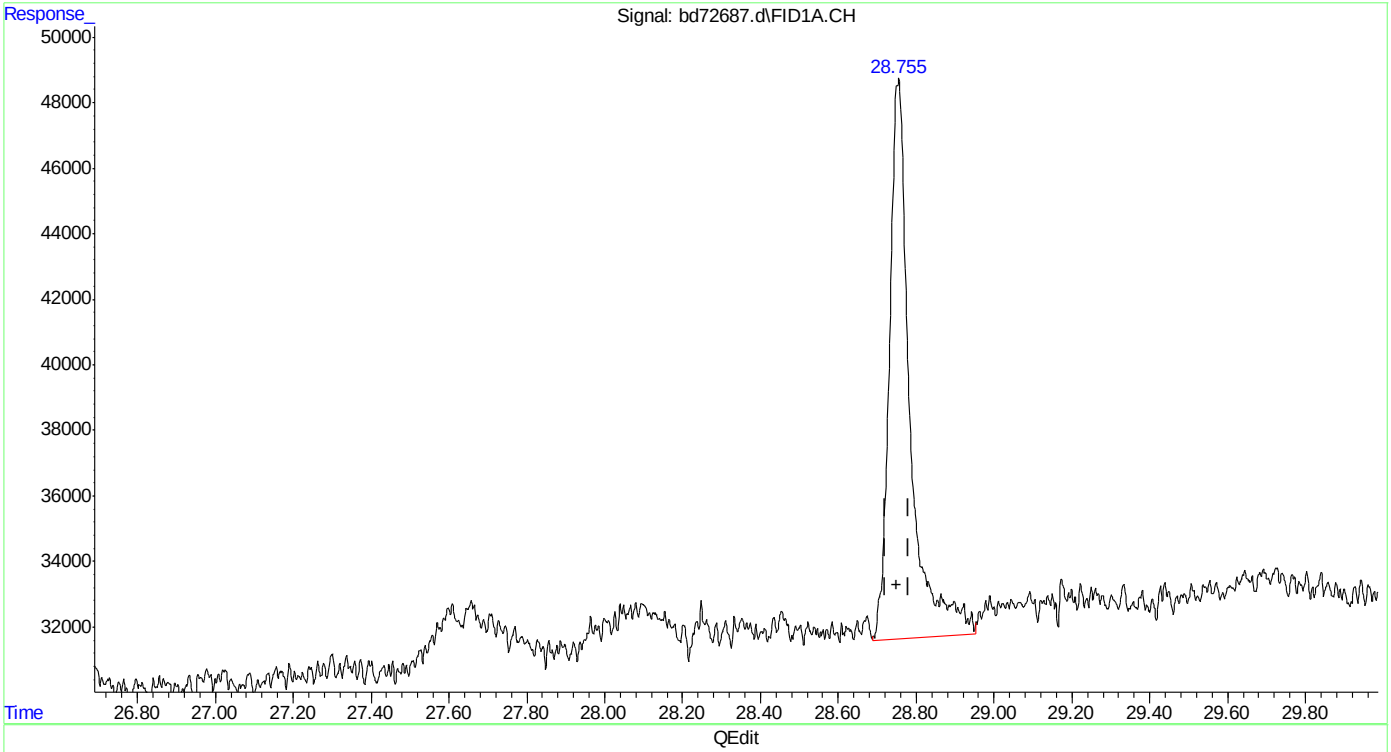
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(20) naphthalene
28.755min 1.476 ppb m
response 633669

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:59 2016

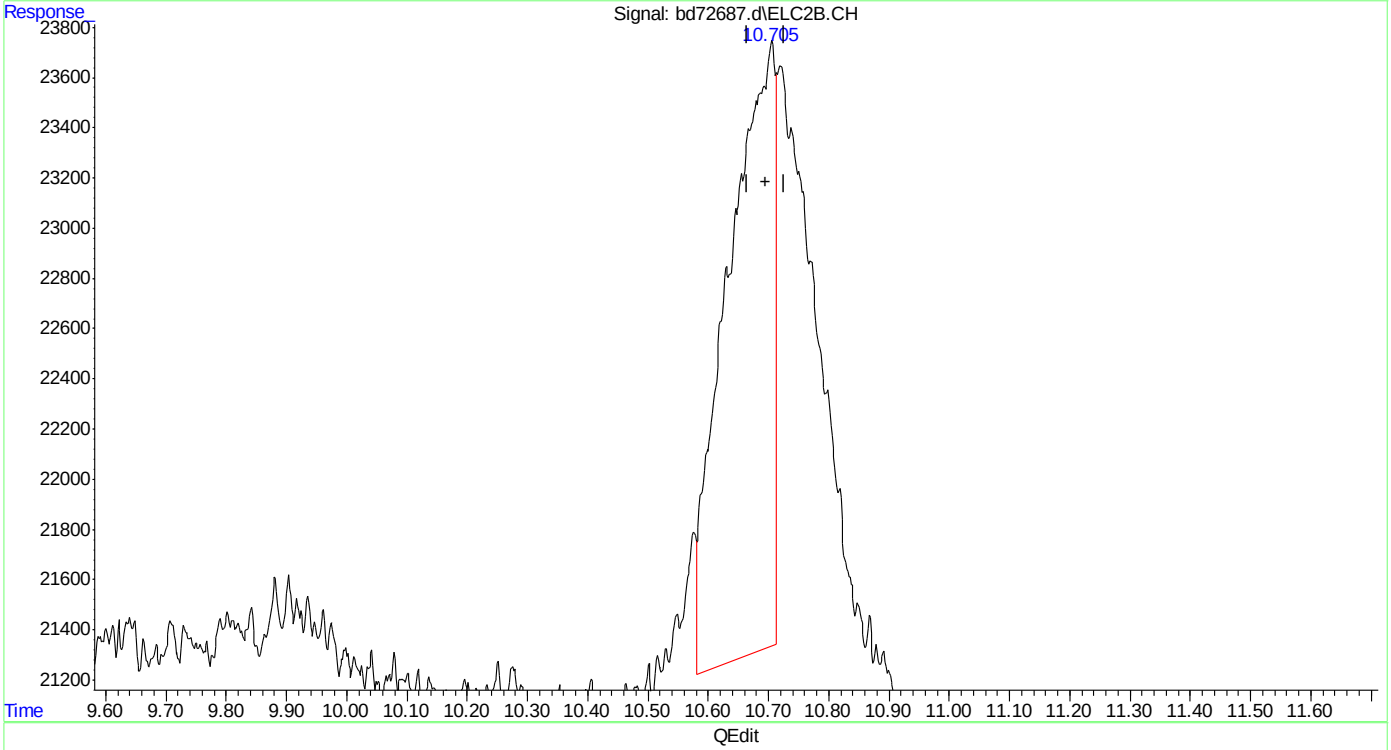
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.706min 0.834 ppb
response 130605

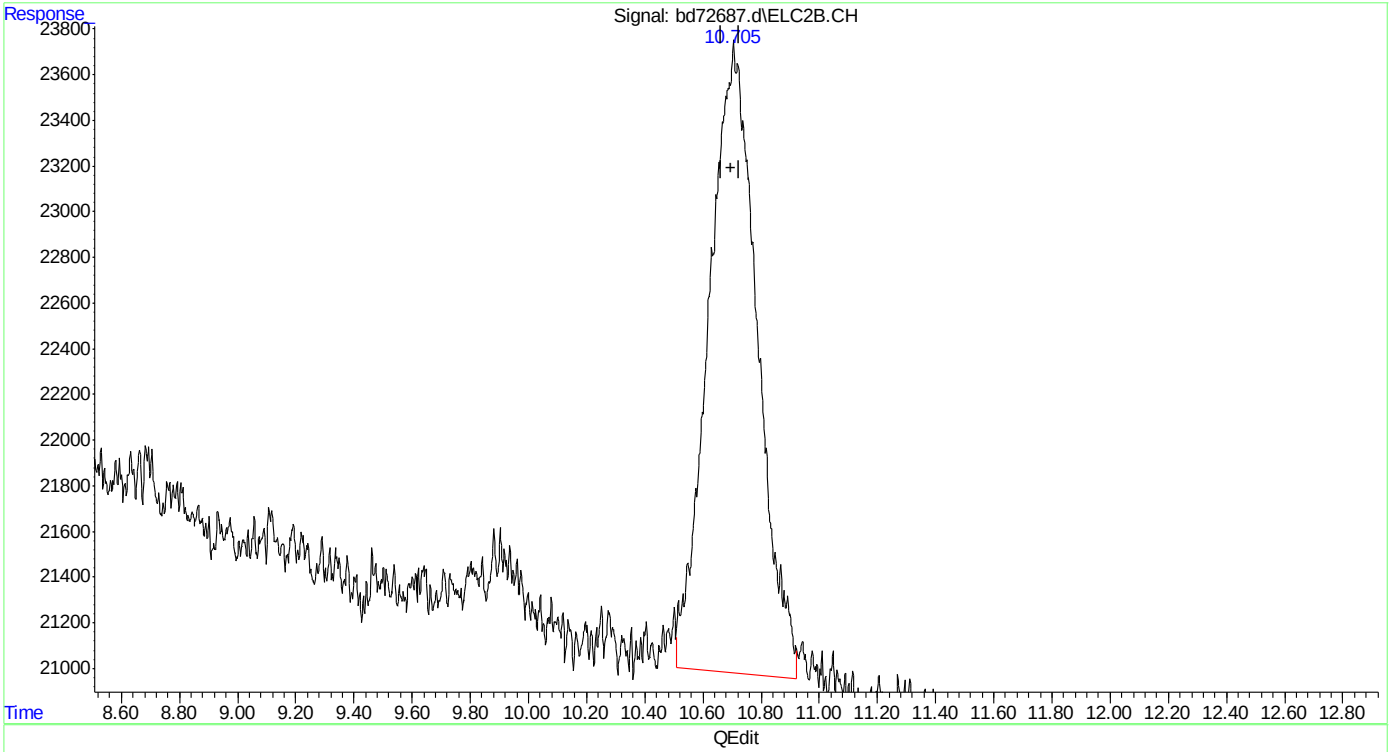
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:04 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.705min 2.043 ppb m
response 319987

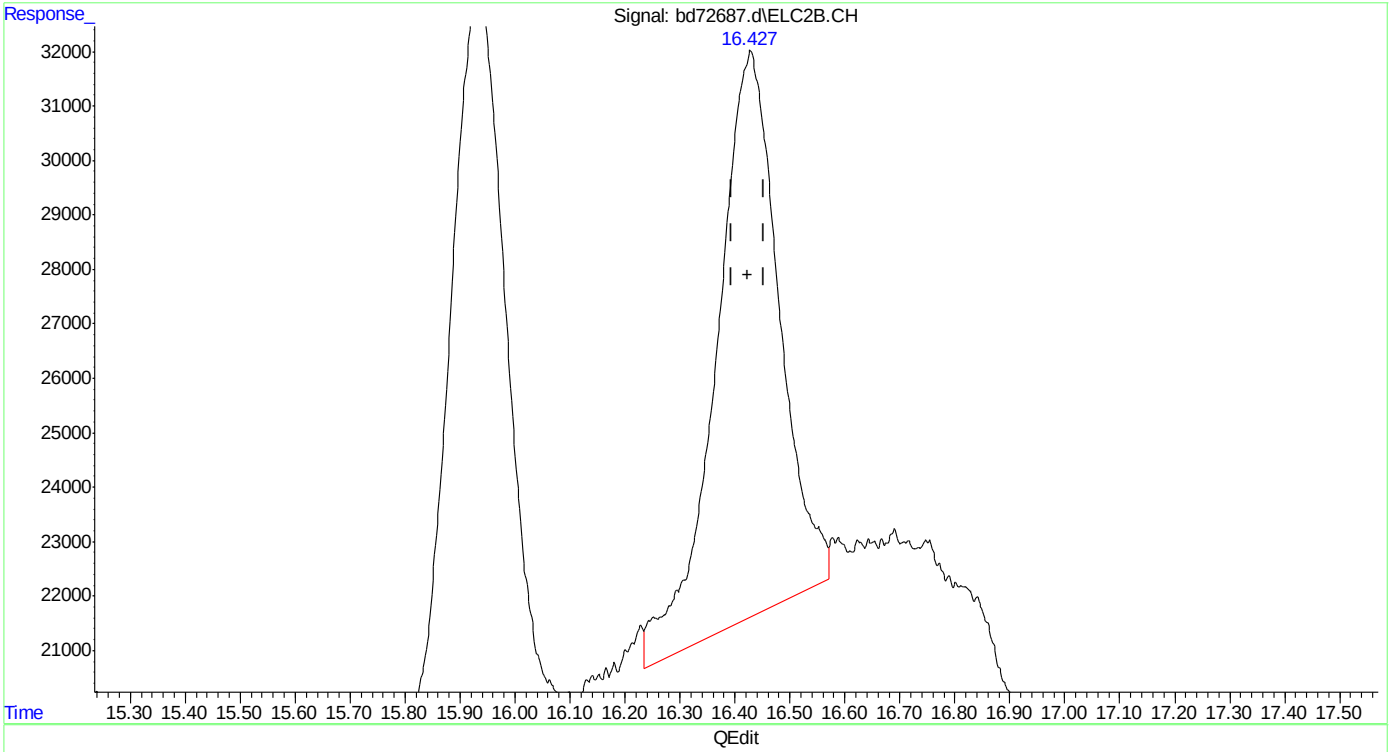
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)

16.429min 2.332 ppb

response 827119

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:45:22 2016

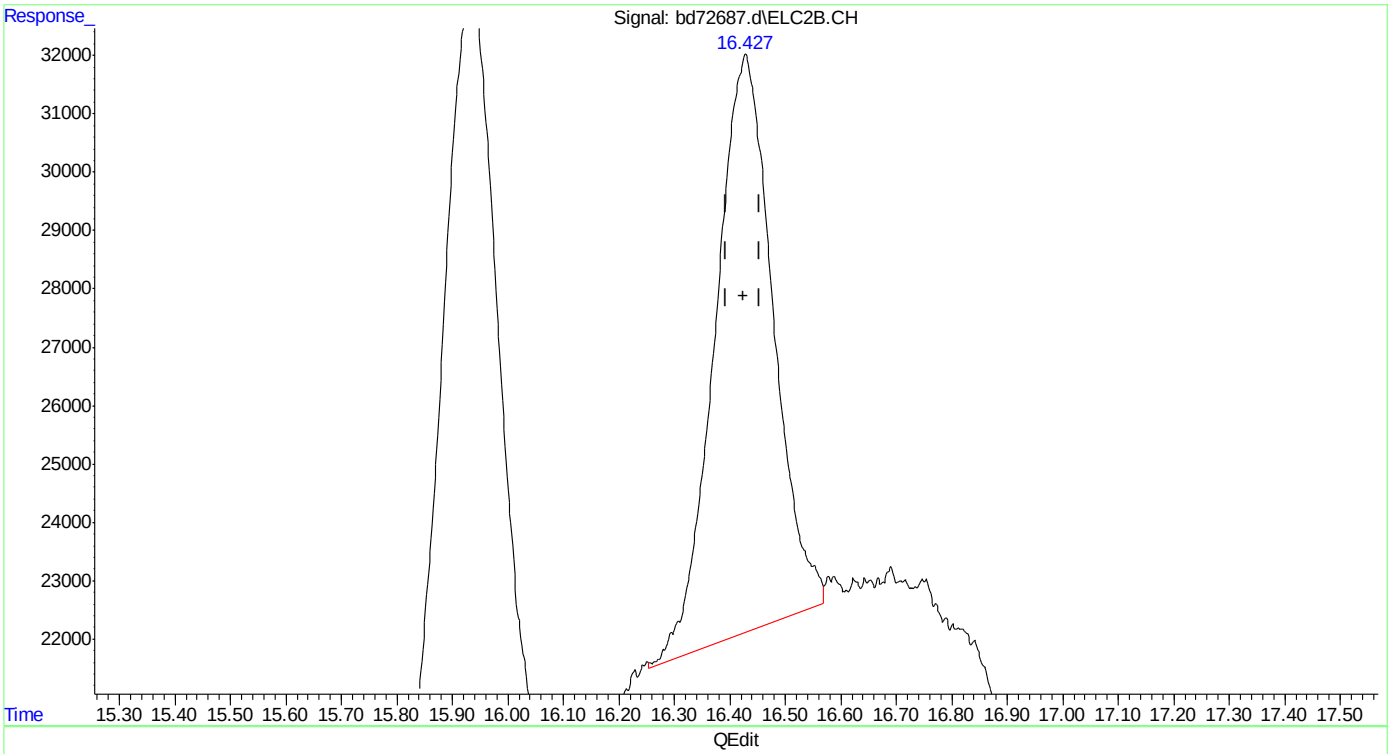
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)

16.427min 2.036 ppb m

response 722326

(+) = Expected Retention Time

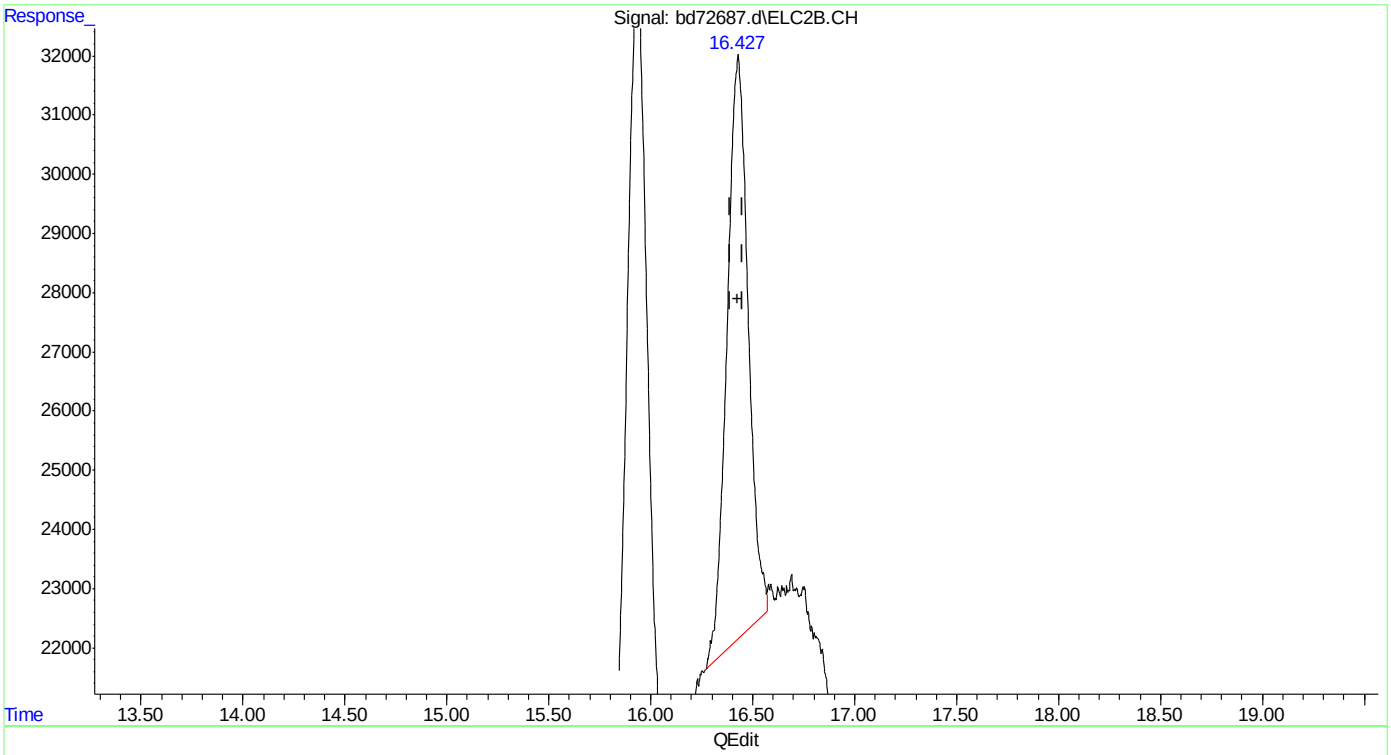
bd160219master.M Fri Feb 19 12:45:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)
16.427min 2.004 ppb m
response 710788

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:46 2016

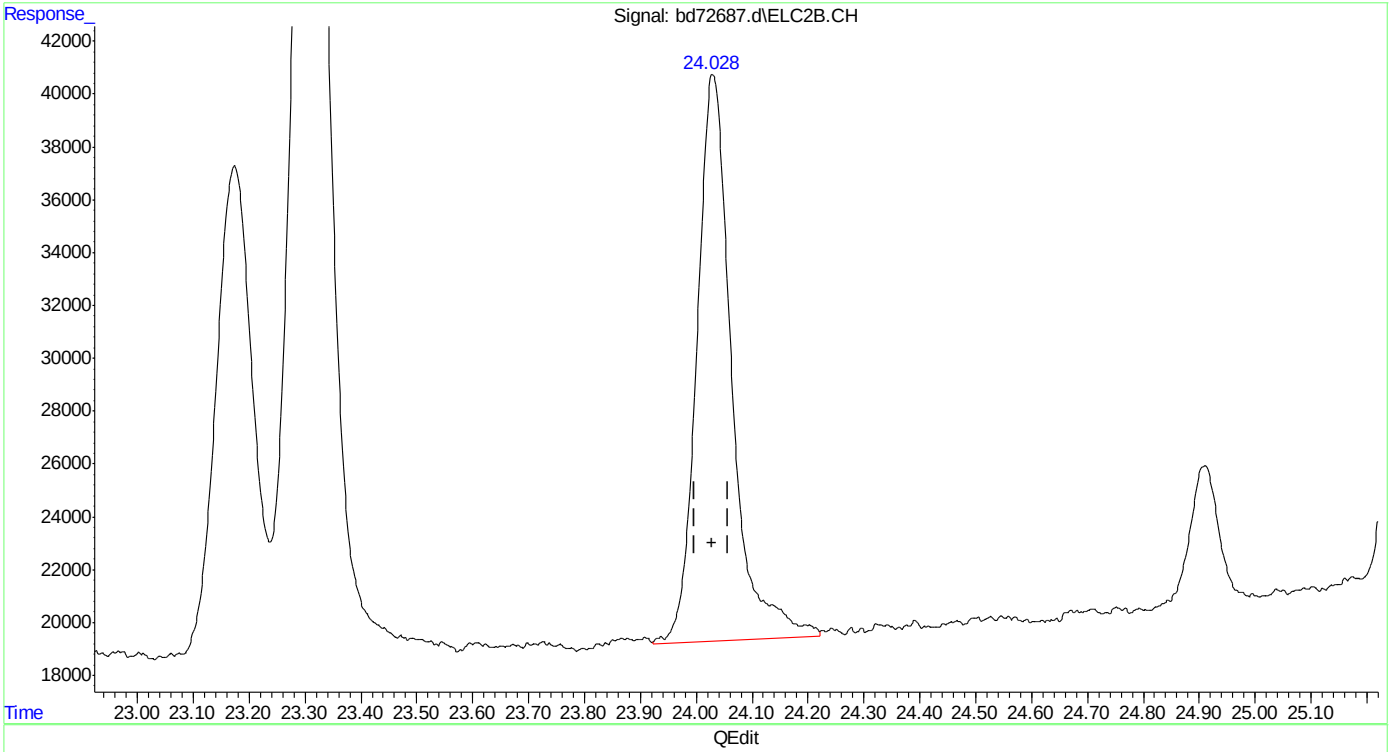
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
24.030min 2.277 ppb
response 930231

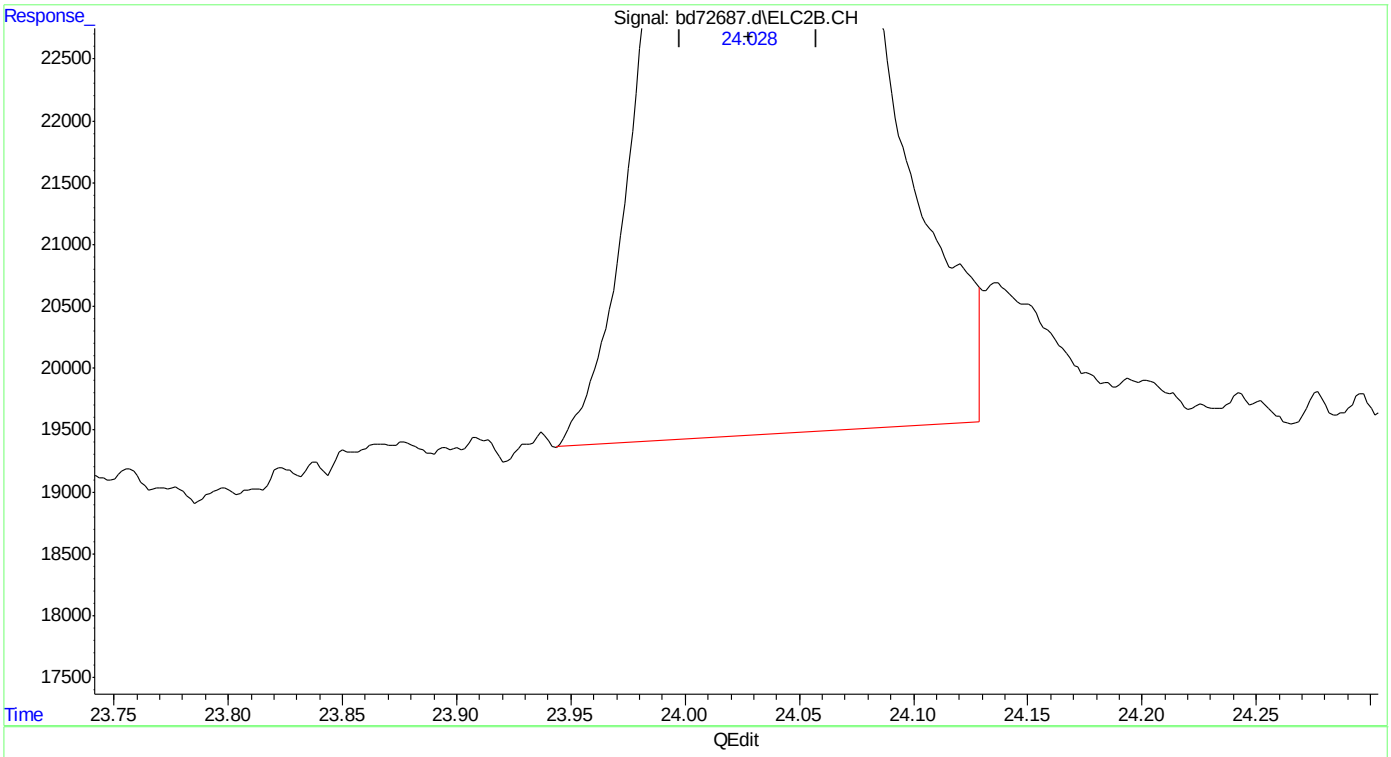
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
24.028min 2.137 ppb m
response 873175

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:05 2016

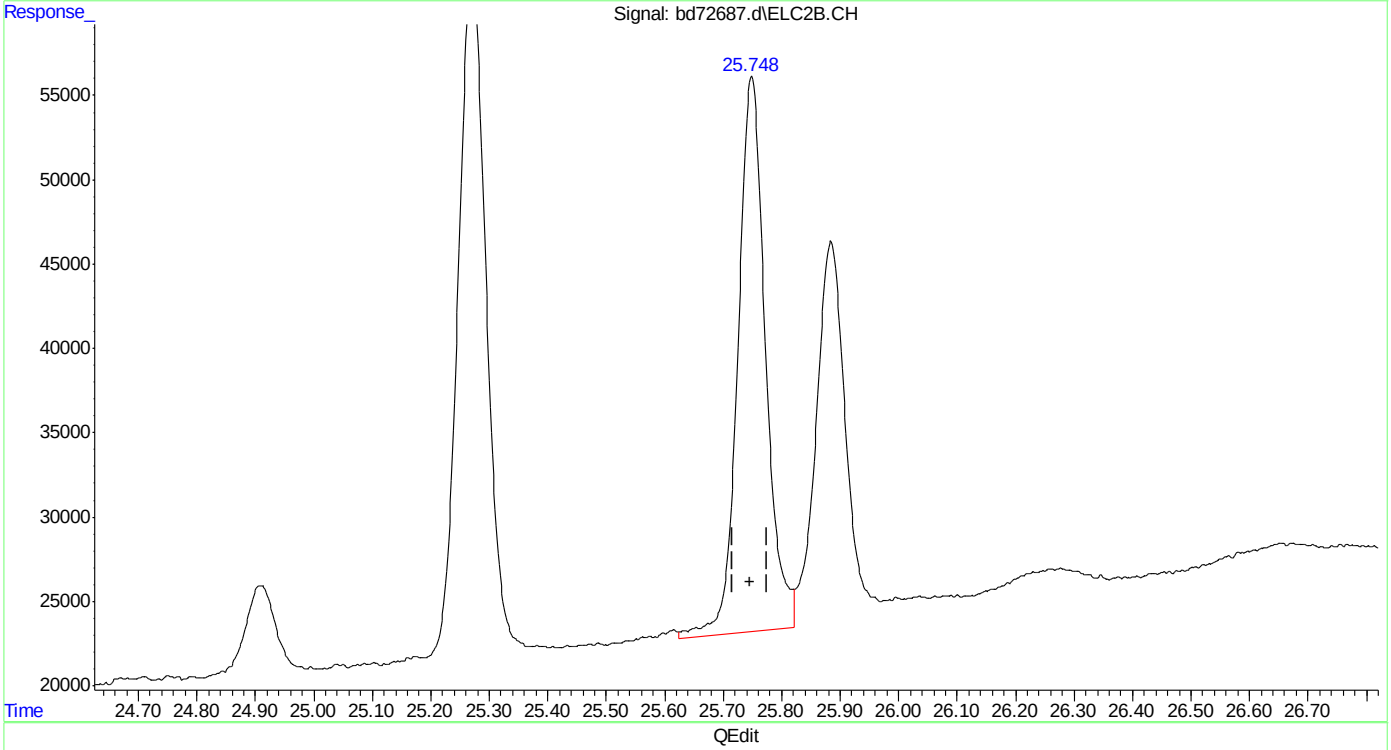
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.749min 2.350 ppb
response 1079346

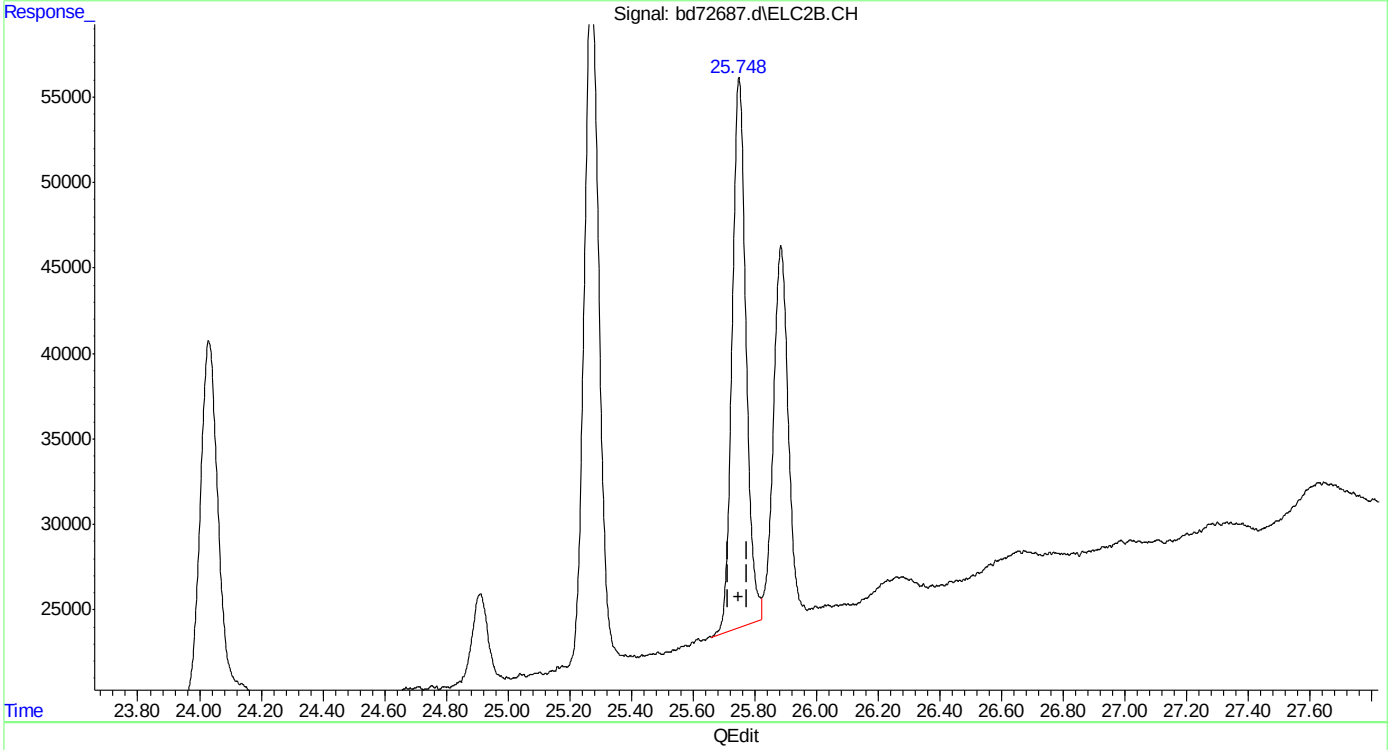
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.748min 2.174 ppb m
response 998600

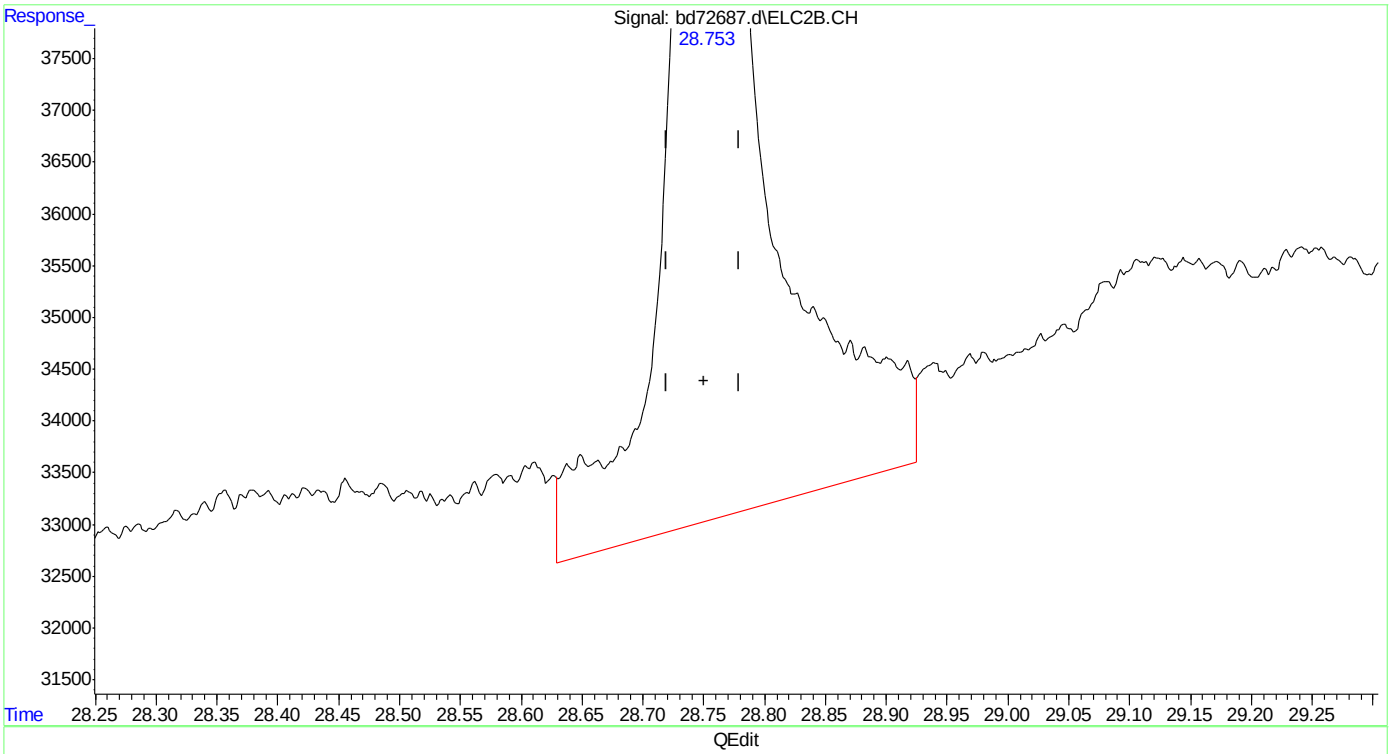
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.753min 1.968 ppb
response 603924

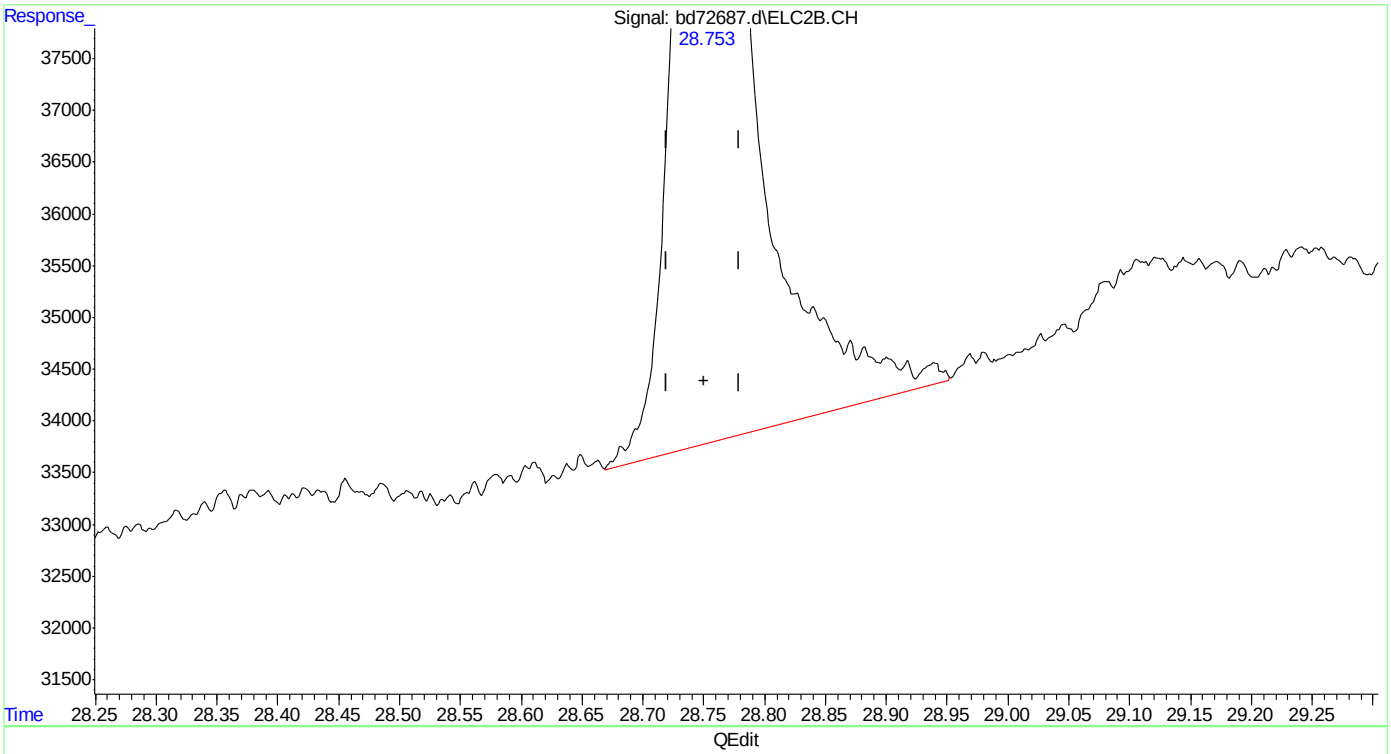
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.753min 1.541 ppb m
response 472807

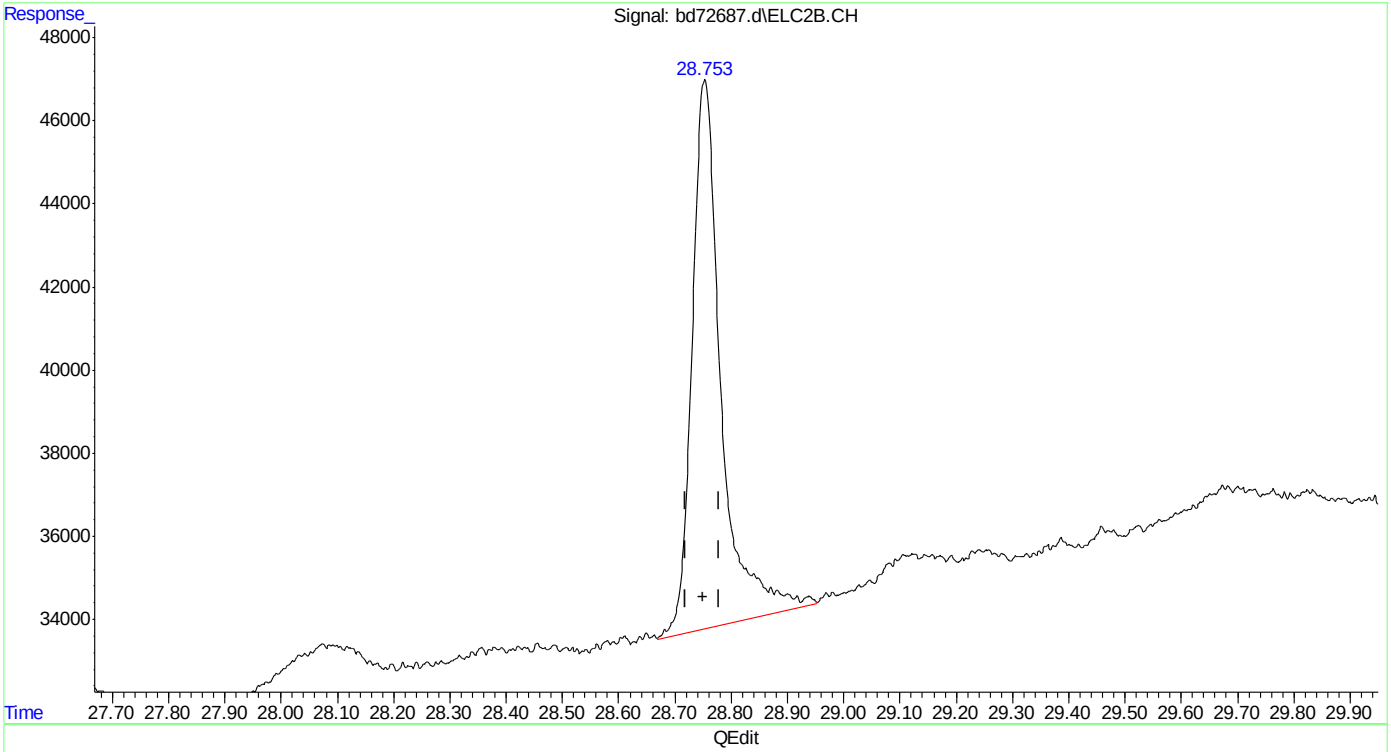
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:30 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.753min 1.541 ppb m
response 472807

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3572-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.417	690853	0.952	ppb	m
Spiked Amount 50.000		Recovery =	1.90%		
9) s 2,3,4-trifluorotoluene	21.238	520707	0.941	ppb	m
Spiked Amount 50.000		Recovery =	1.88%		
25) s fluorobenzene #2	16.428	373315	1.052	ppb	m
Spiked Amount 50.000		Recovery =	2.10%		
27) s 2,3,4-trifluorotoluen...	21.241	206659	1.027	ppb	m
Spiked Amount 50.000		Recovery =	2.05%		
Target Compounds					
1) h rt5.5-7	7.470	578714	1.013	ppb	m
2) h rt7/10	9.920	702081	1.064	ppb	m
3) mtbe	10.722f	270383	0.935	ppb	m
4) h rt10/13	15.200	721543	1.001	ppb	m
5) benzene	15.930	747683	0.970	ppb	m
8) toluene	20.219	761168	0.989	ppb	m
11) h rt20/25	22.840	1149887	1.343	ppb	m
13) ethylbenzene	23.175	793136	1.005	ppb	
14) m,p-xylene	23.311	1723067	2.092	ppb	
15) o-xylene	24.031	920010	1.108	ppb	
16) h decane	24.930	1632465	1.704	ppb	m
17) t 1,3,5-trimethylbenzene	25.273	946024	0.995	ppb	m
18) 1,2,4-trimethylbenzene	25.750	938216	1.067	ppb	m
19) h butylcyclohexane	25.908	1408346	1.425	ppb	m
20) naphthalene	28.755	268939	0.670	ppb	m
23) mtbe #2	10.682	146572	0.931	ppb	m
24) benzene #2	15.926	496928	1.064	ppb	m
26) toluene #2	20.226	470661	1.085	ppb	m
28) ethylbenzene #2	23.173	413616	1.042	ppb	
29) m,p-xylene #2	23.310	1007780	2.081	ppb	
30) o-xylene #2	24.033	483692	1.164	ppb	m
31) t 1,3,5-trimethylbenzen...	25.273	712865	1.078	ppb	
32) 1,2,4-trimethylbenzen...	25.749	530966	1.131	ppb	m
33) naphthalene #2	28.755	204485	0.707	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	530521	1.131	ppb	m

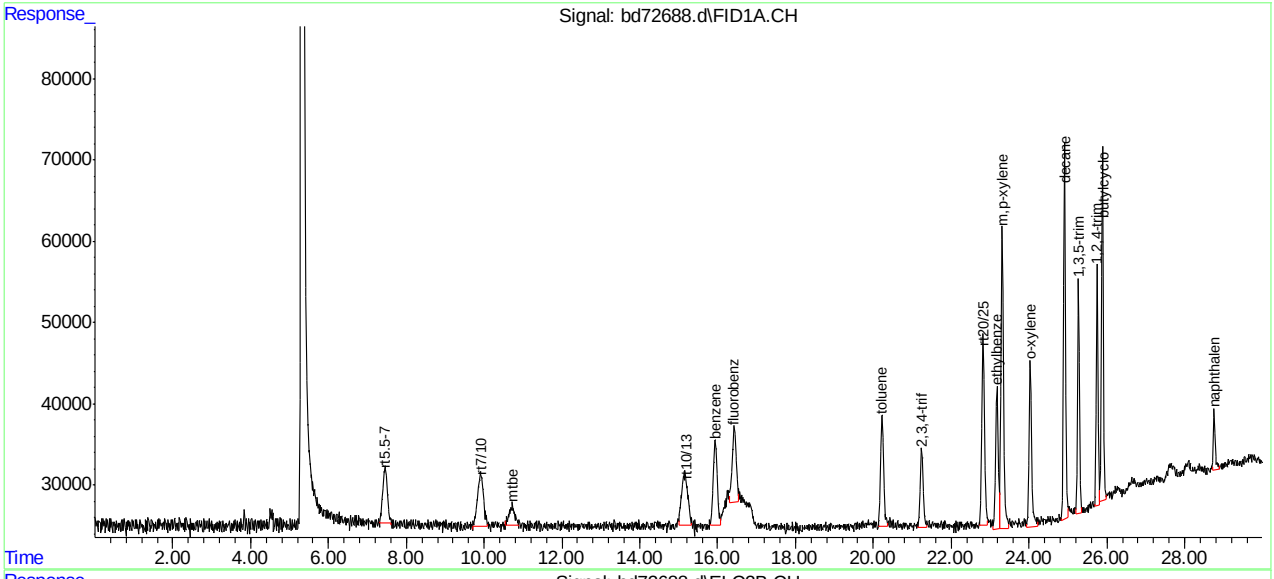
(f)=RT Delta > 1/2 Window (m)=manual int.

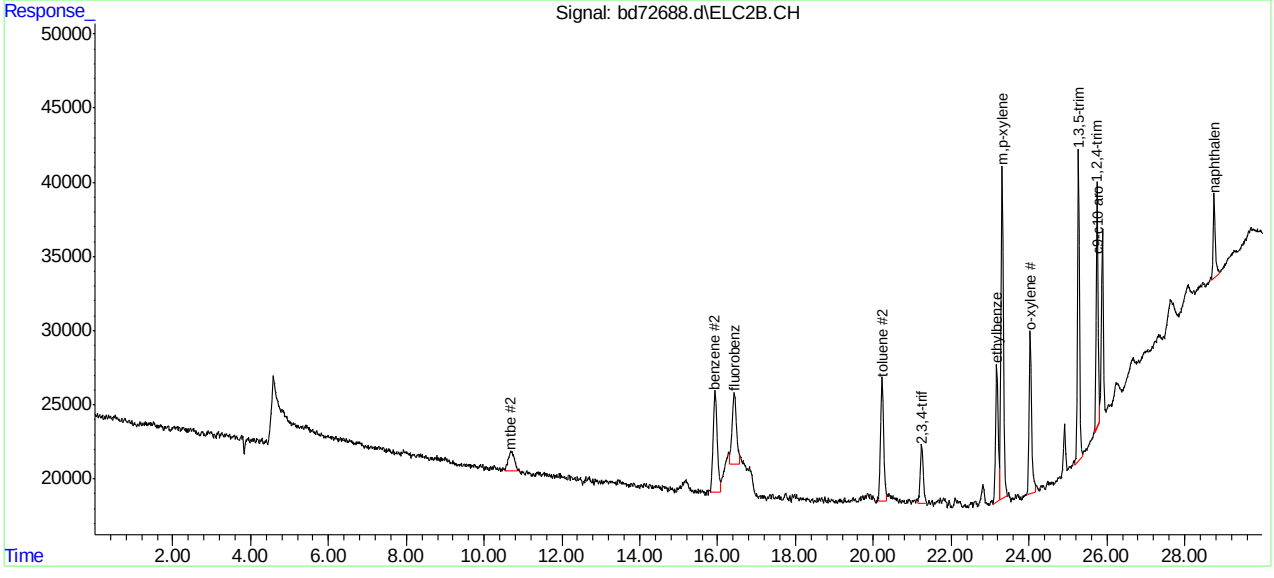
Quantitation Report (QT Reviewed)

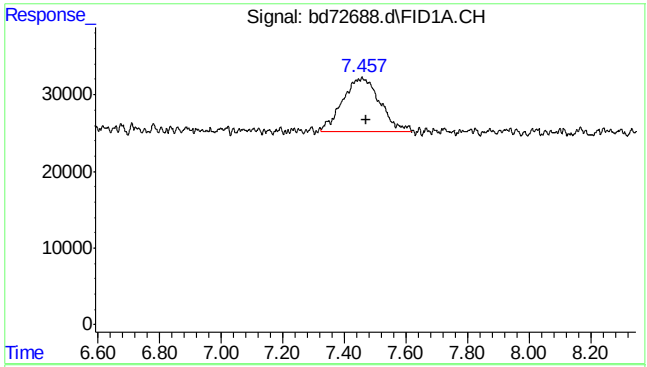
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3572-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

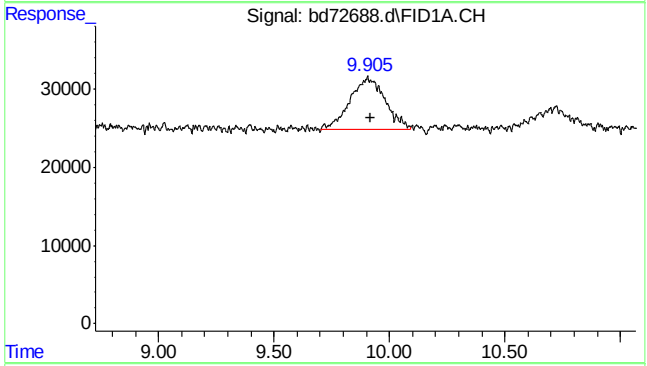






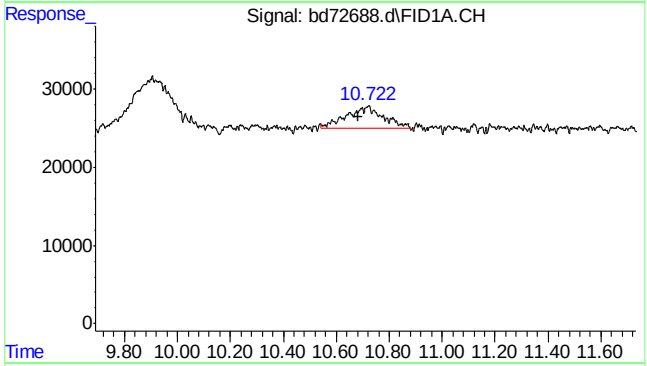
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 578714
Conc: 1.01 ppb m



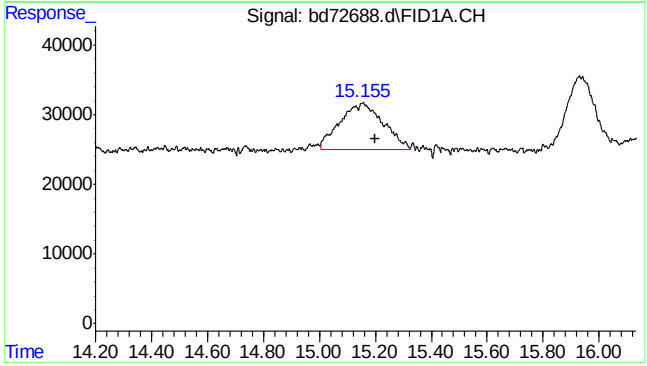
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 702081
Conc: 1.06 ppb m



#3 mtbe

R.T.: 10.722 min
Delta R.T.: 0.039 min
Response: 270383
Conc: 0.94 ppb m



#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 721543
Conc: 1.00 ppb m

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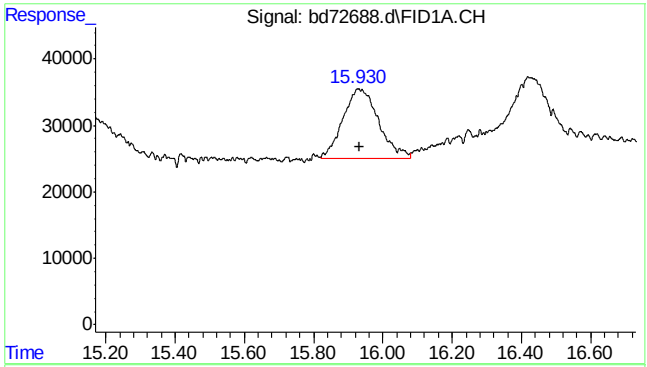
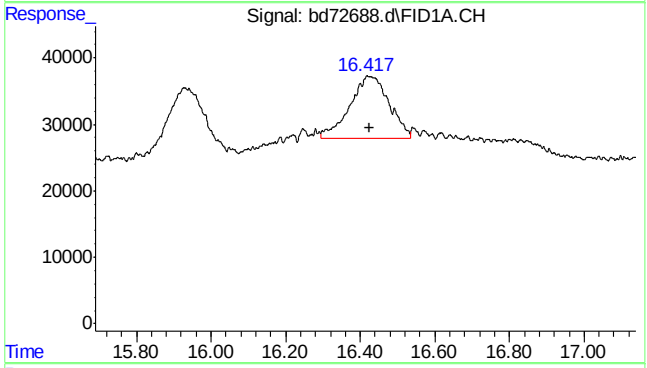


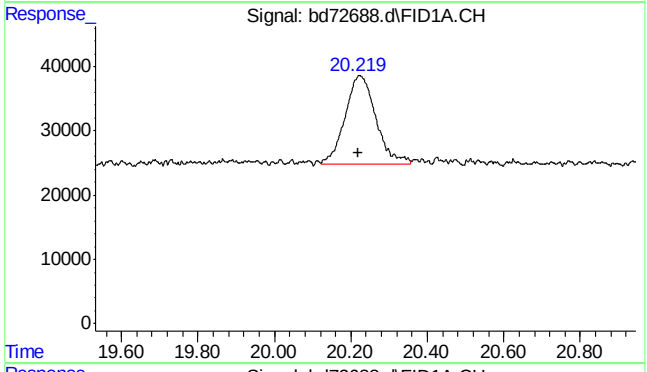
#5 benzene

R.T.: 15.930 min
Delta R.T.: -0.003 min
Response: 747683
Conc: 0.97 ppb m



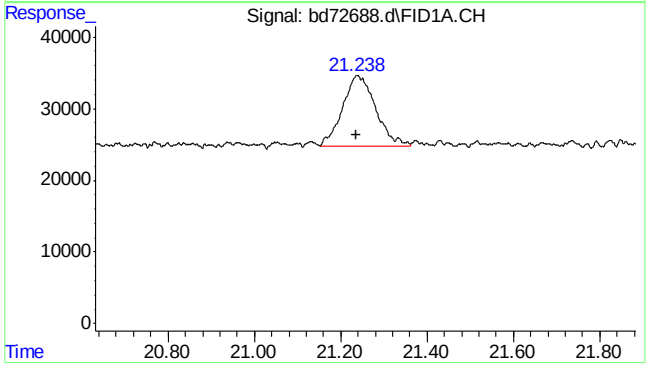
#6 fluorobenzene

R.T.: 16.417 min
Delta R.T.: -0.007 min
Response: 690853
Conc: 0.95 ppb m



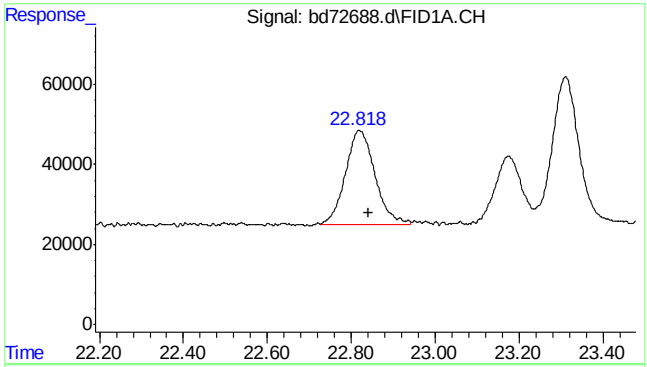
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 761168
Conc: 0.99 ppb m



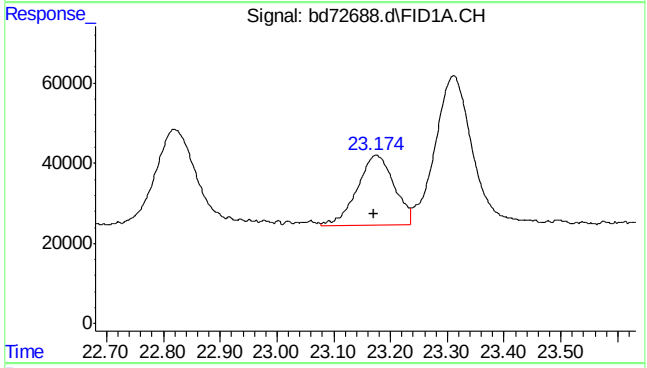
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 520707
Conc: 0.94 ppb m



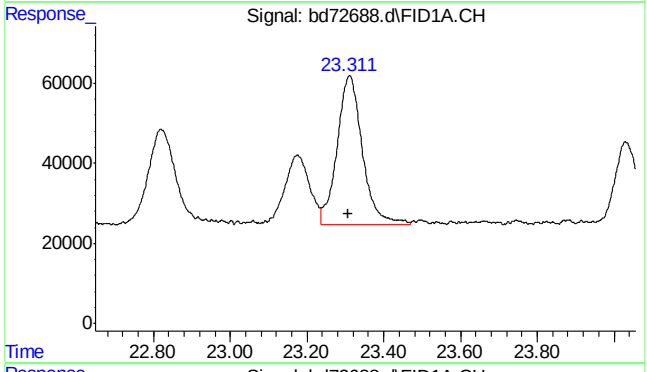
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 1149887
Conc: 1.34 ppb m



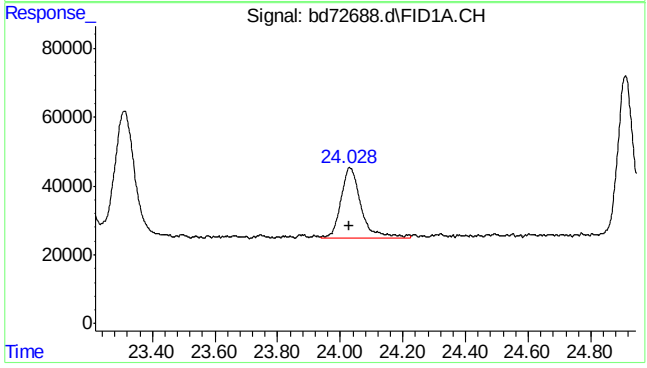
#13 ethylbenzene

R.T.: 23.175 min
Delta R.T.: 0.003 min
Response: 793136
Conc: 1.01 ppb



#14 m,p-xylene

R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1723067
Conc: 2.09 ppb



#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 920010
Conc: 1.11 ppb

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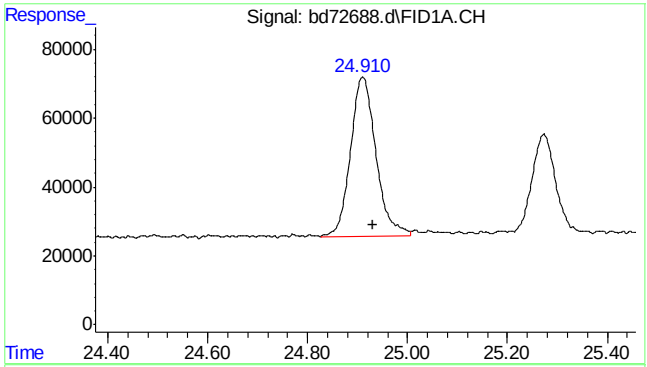
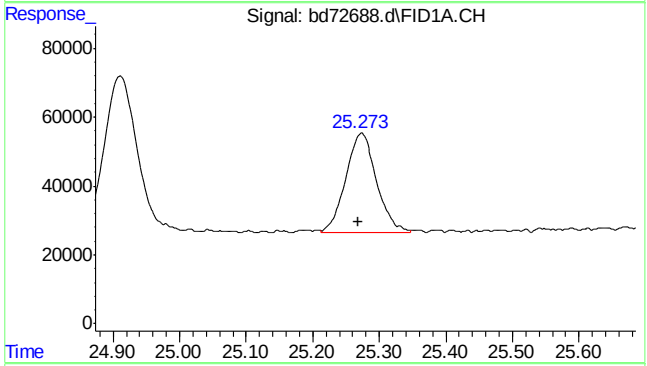


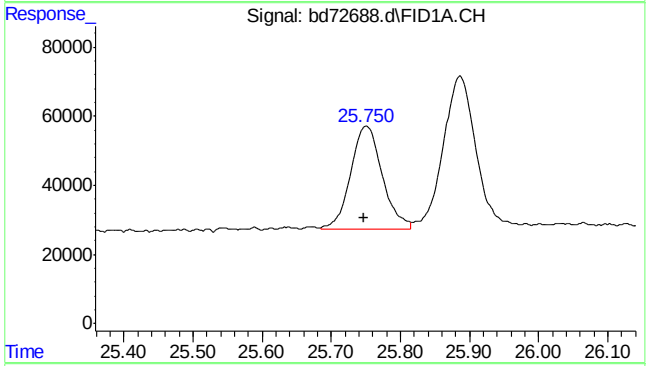
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 1632465
Conc: 1.70 ppb m



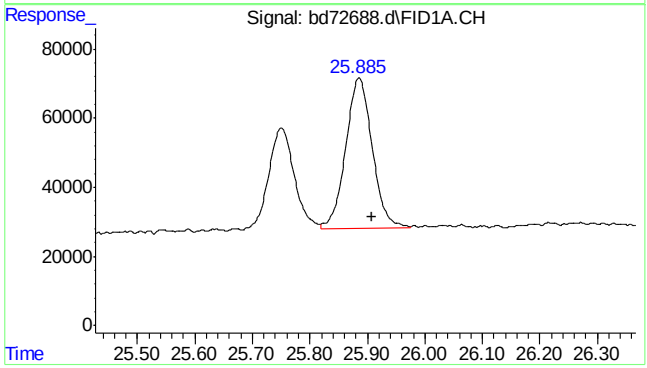
#17 1,3,5-trimethylbenzene

R.T.: 25.273 min
Delta R.T.: 0.004 min
Response: 946024
Conc: 1.00 ppb m



#18 1,2,4-trimethylbenzene

R.T.: 25.750 min
Delta R.T.: 0.003 min
Response: 938216
Conc: 1.07 ppb m



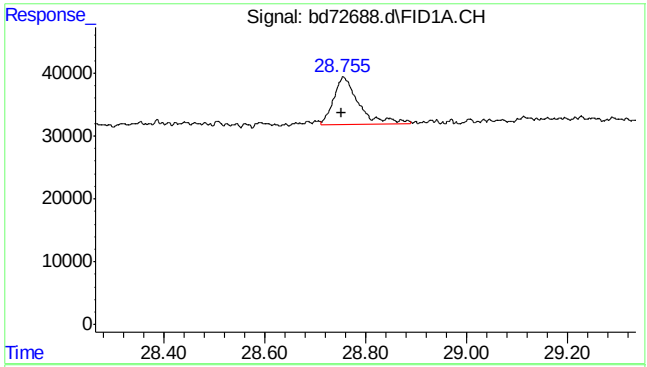
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 1408346
Conc: 1.42 ppb m

7.5.9

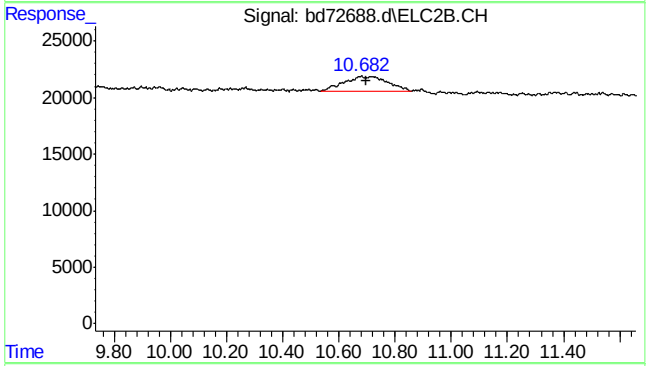
7

SGS ACCUTEST MC45969



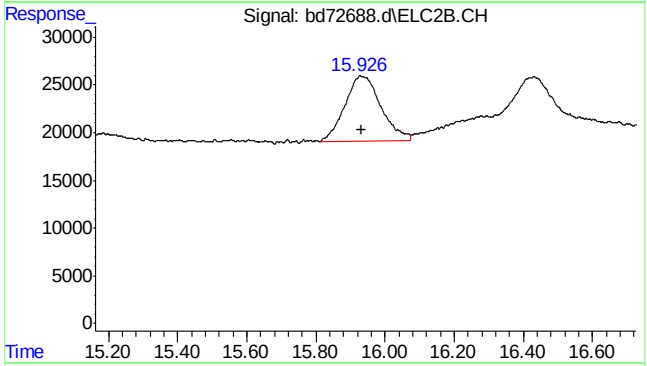
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 268939
Conc: 0.67 ppb m



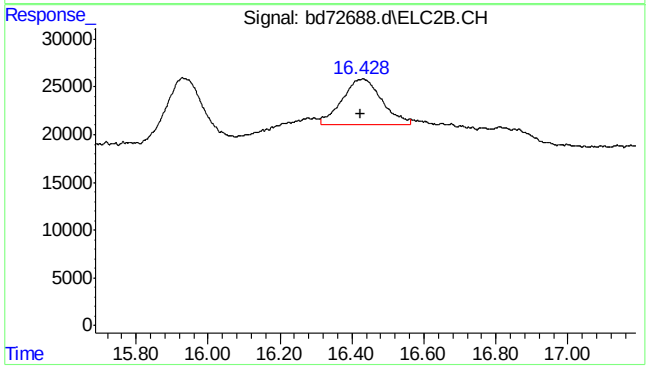
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 146572
Conc: 0.93 ppb m



#24 benzene #2

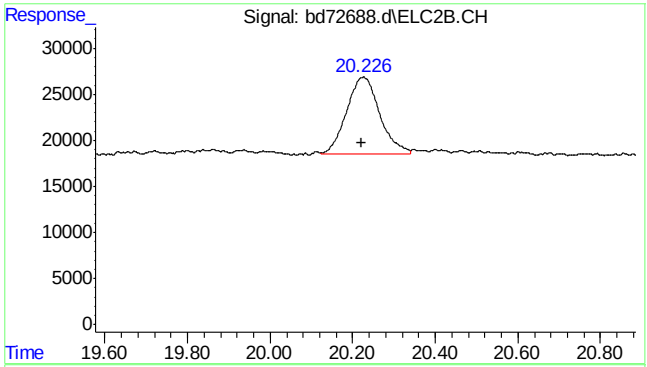
R.T.: 15.926 min
Delta R.T.: -0.006 min
Response: 496928
Conc: 1.06 ppb m



#25 fluorobenzene #2

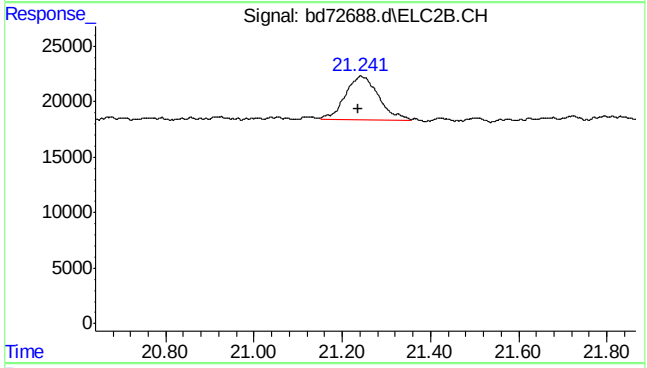
R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 373315
Conc: 1.05 ppb m

SGS ACCUTEST MC45969



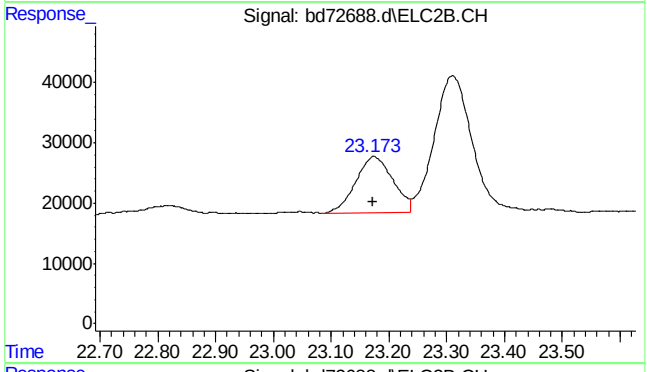
#26 toluene #2

R.T.: 20.226 min
Delta R.T.: 0.005 min
Response: 470661
Conc: 1.08 ppb m



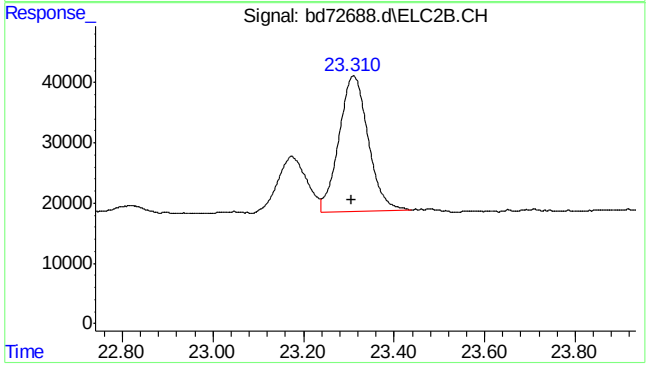
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 206659
Conc: 1.03 ppb m



#28 ethylbenzene #2

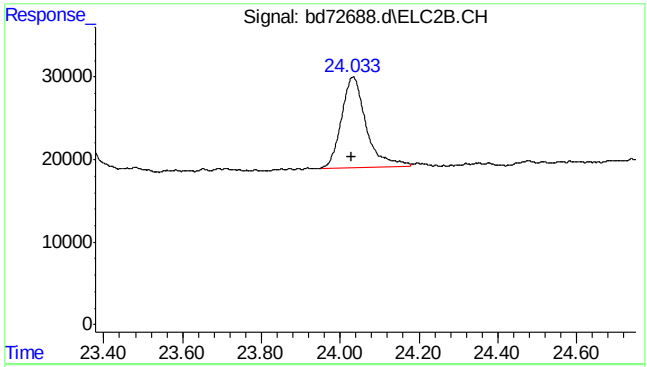
R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 413616
Conc: 1.04 ppb



#29 m,p-xylene #2

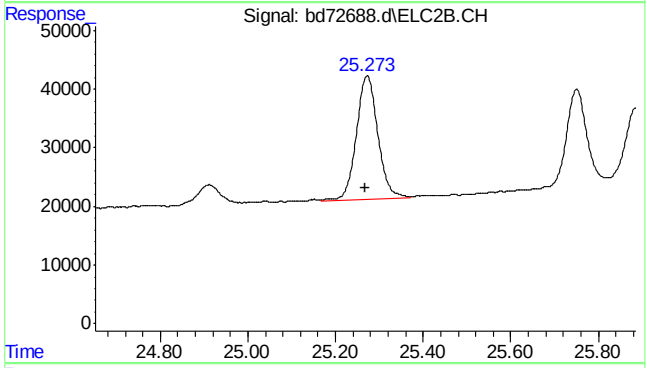
R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 1007780
Conc: 2.08 ppb

SGS ACCUTEST MC45969



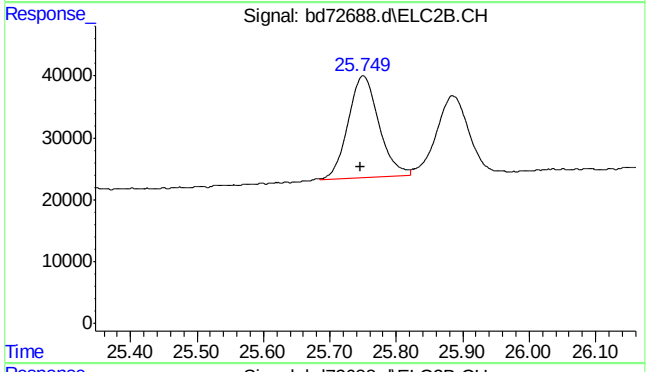
#30 o-xylene #2

R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 483692
Conc: 1.16 ppb m



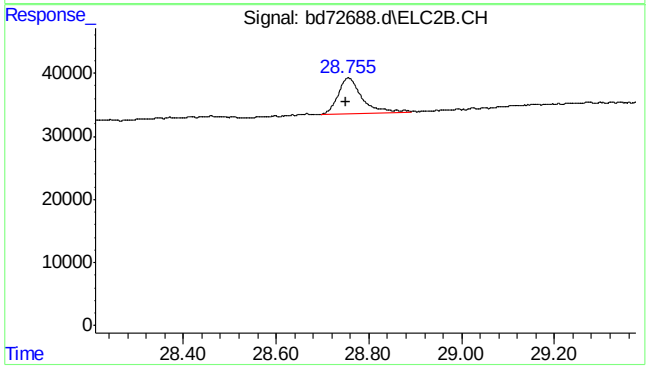
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 712865
Conc: 1.08 ppb



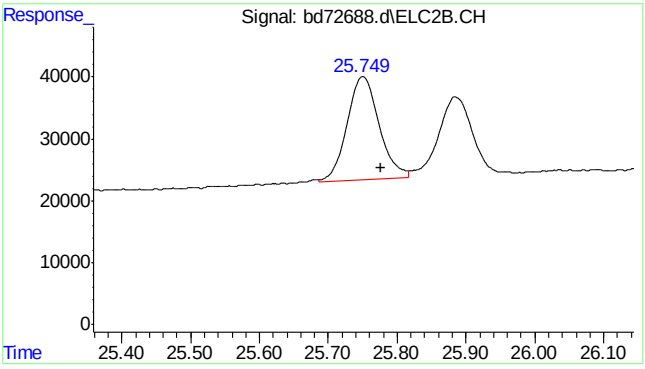
#32 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 530966
Conc: 1.13 ppb m



#33 naphthalene #2

R.T.: 28.755 min
Delta R.T.: 0.005 min
Response: 204485
Conc: 0.71 ppb m



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	530521
Conc:	1.13 ppb m

7.5.9

7

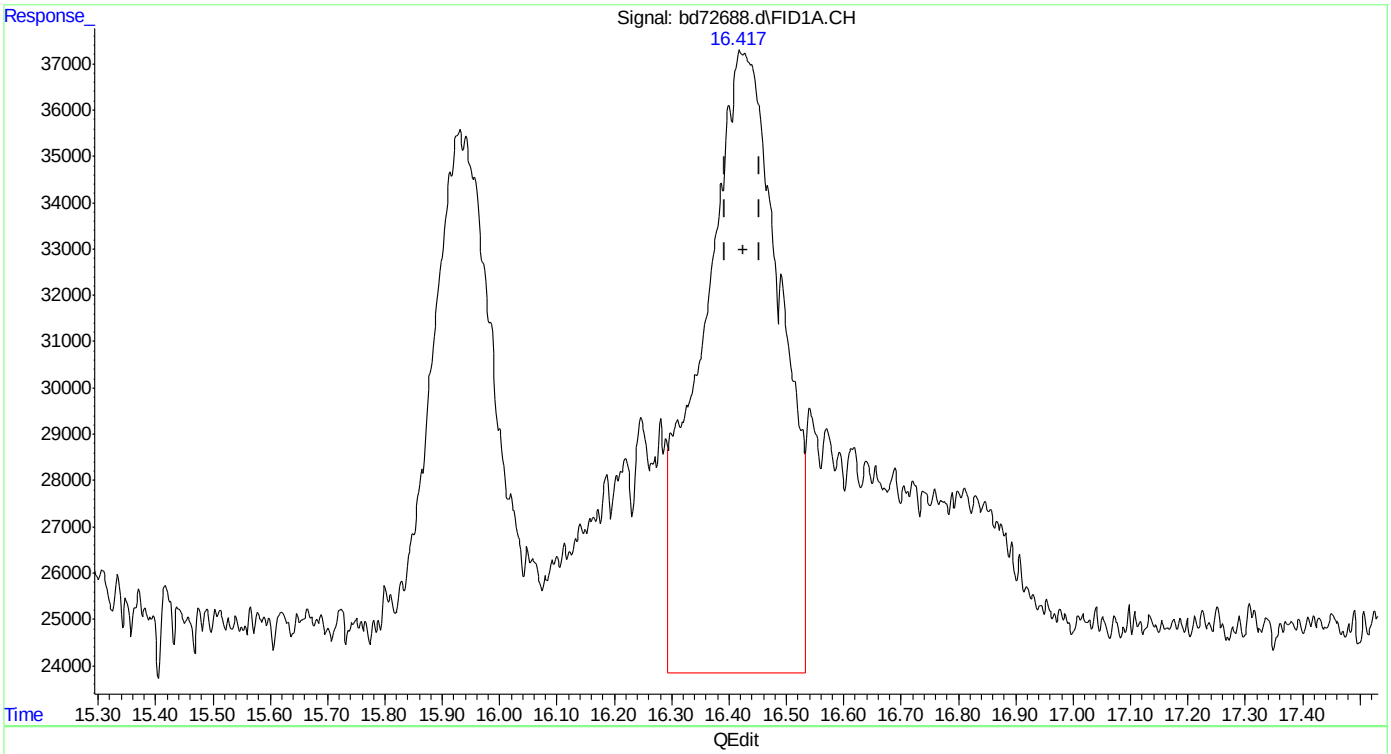
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)
16.420min 1.751 ppb
response 1271087

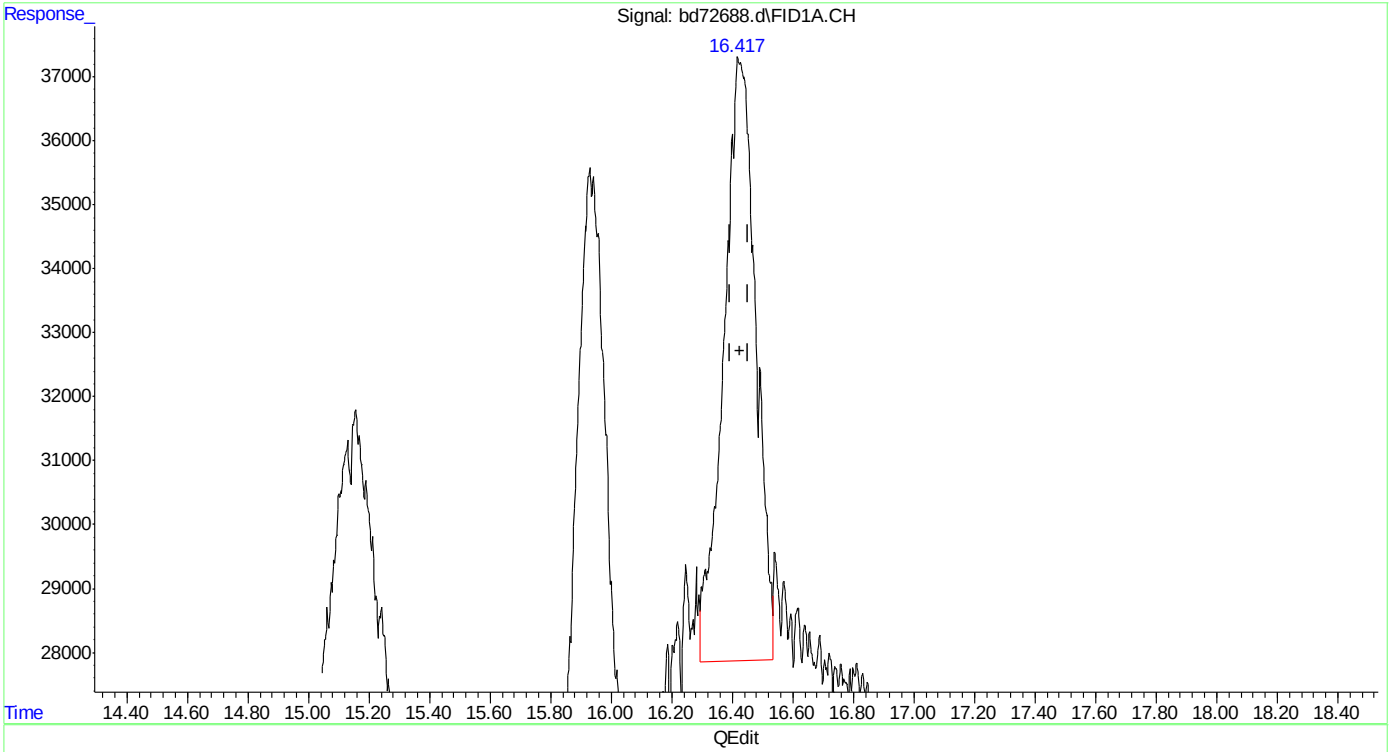
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:09:18 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(6) fluorobenzene (s)

16.417min 0.952 ppb m

response 690853

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:09:43 2016

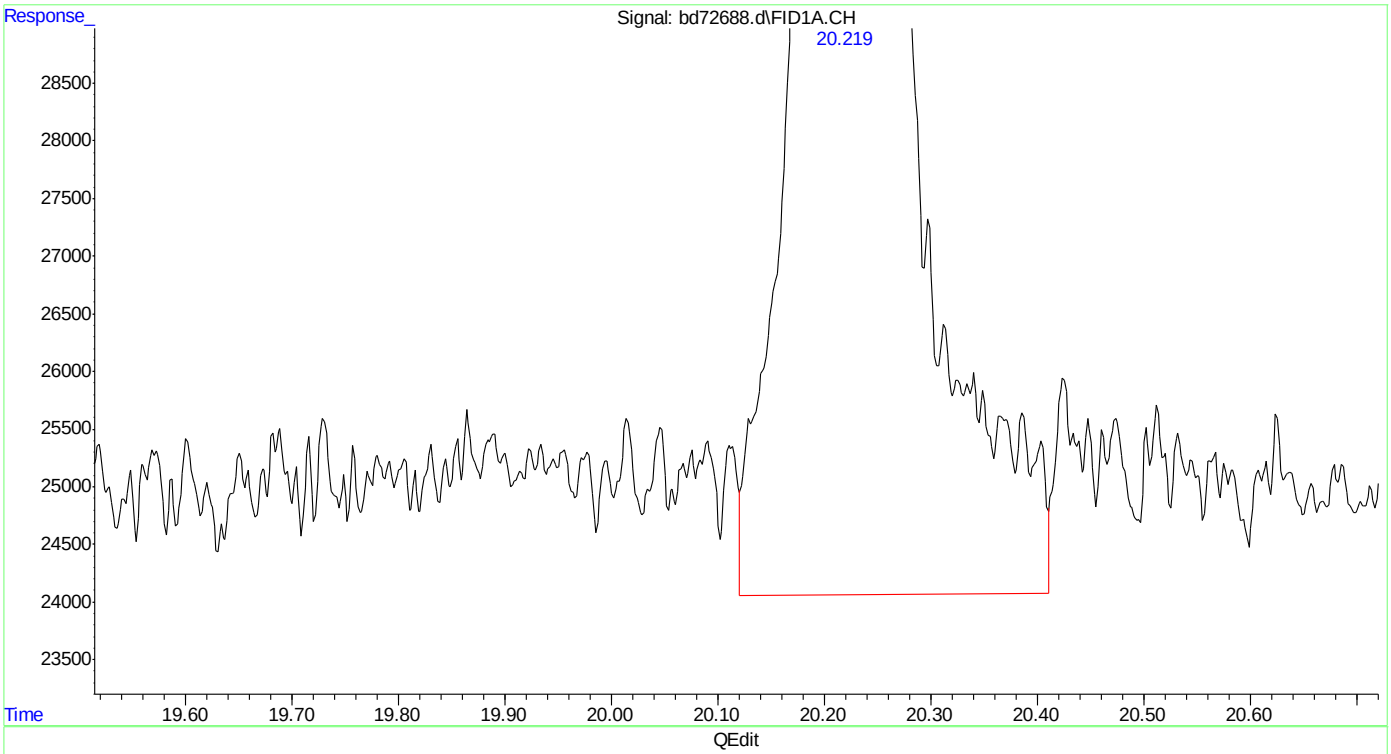
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(8) toluene

20.223min 1.198 ppb

response 921774

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:09:48 2016

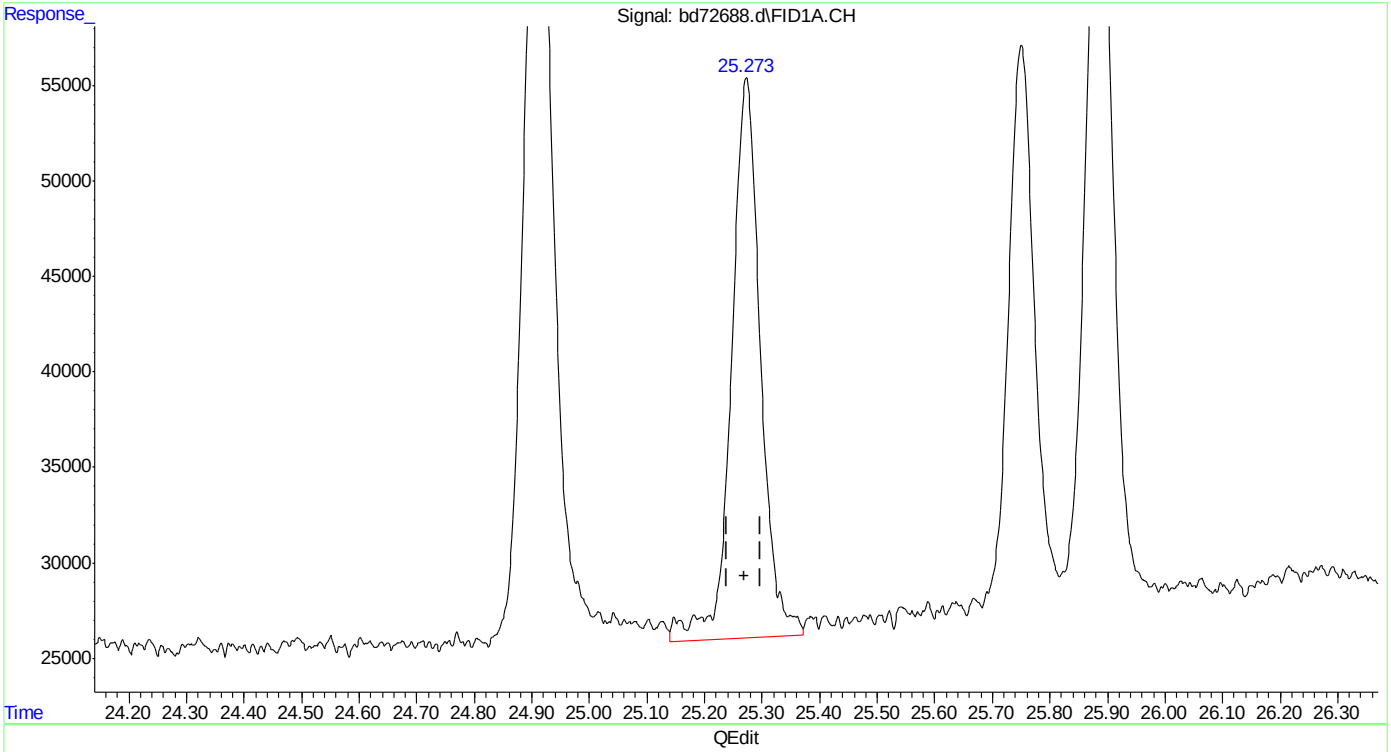
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
25.273min 1.083 ppb
response 1029688

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:35 2016

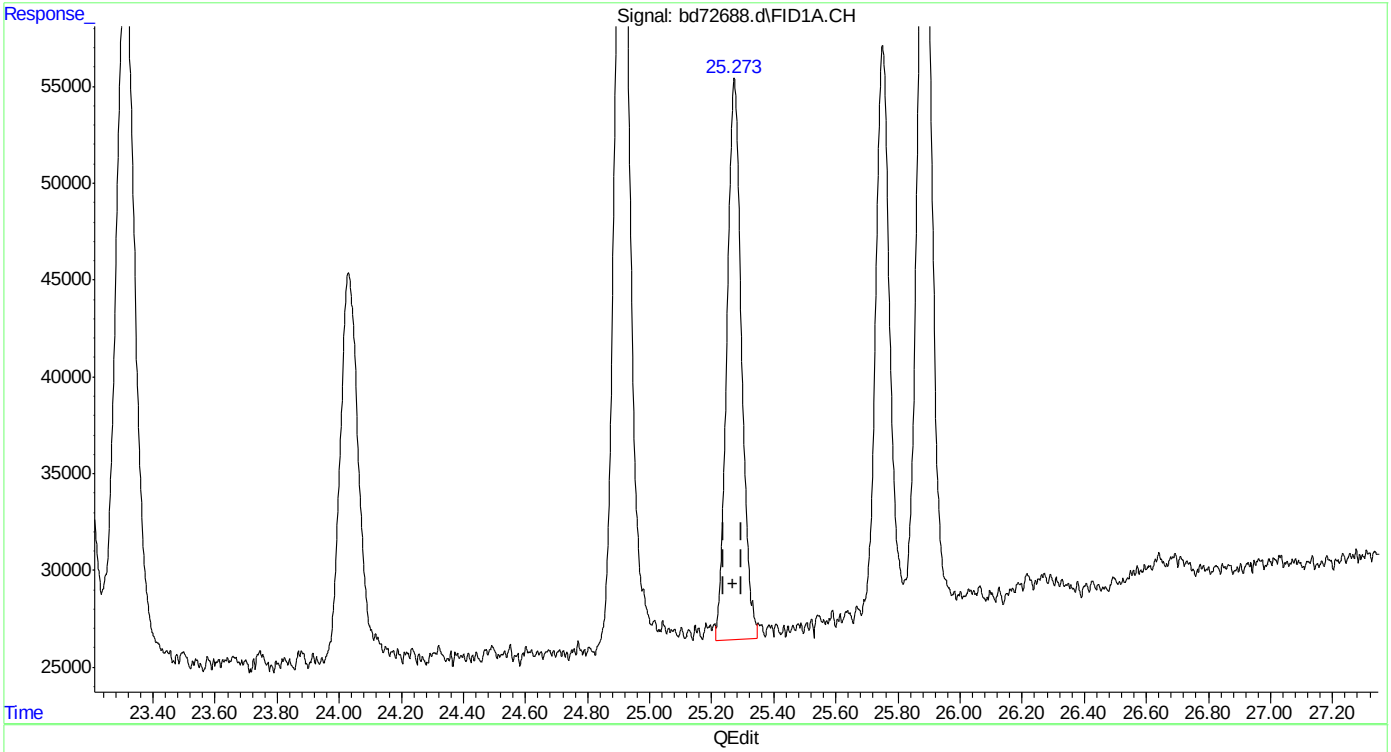
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
25.273min 0.995 ppb m
response 946024

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:43 2016

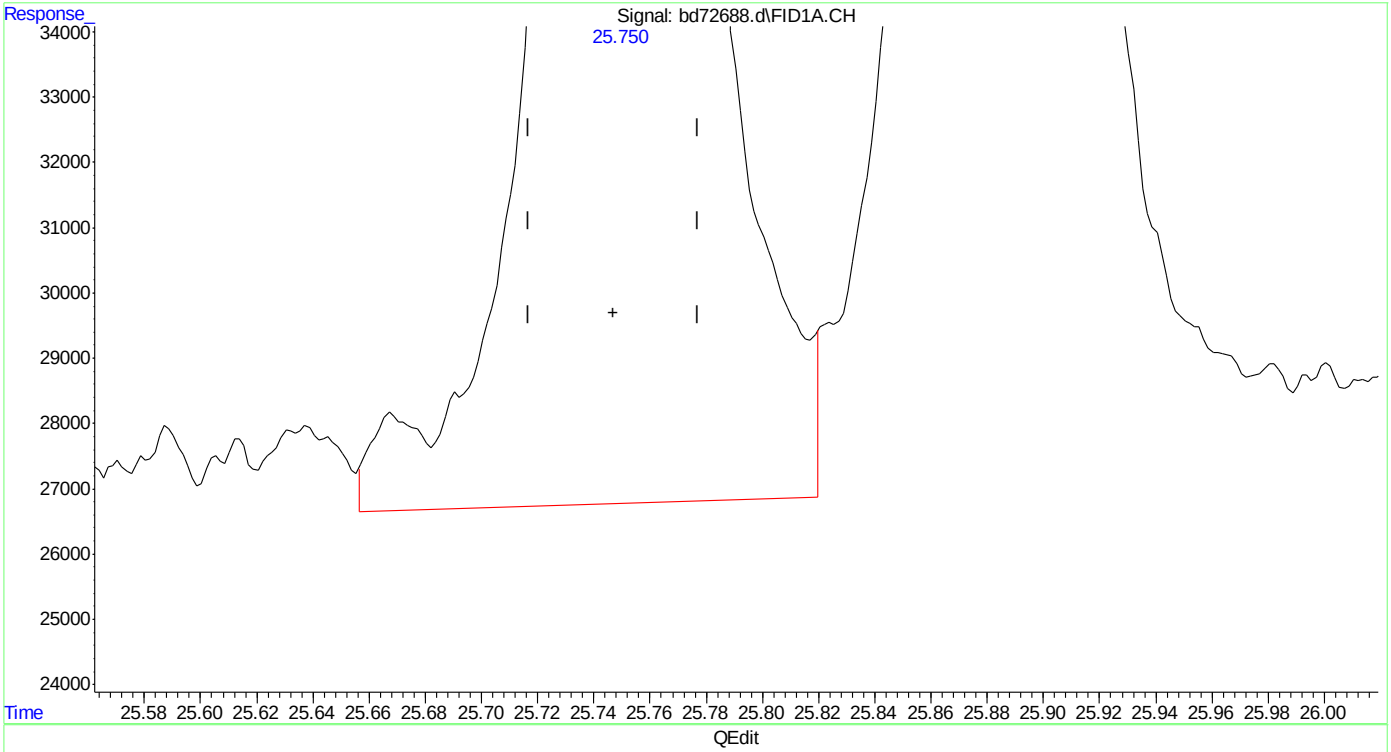
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene
25.751min 1.156 ppb
response 1016771

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:50 2016

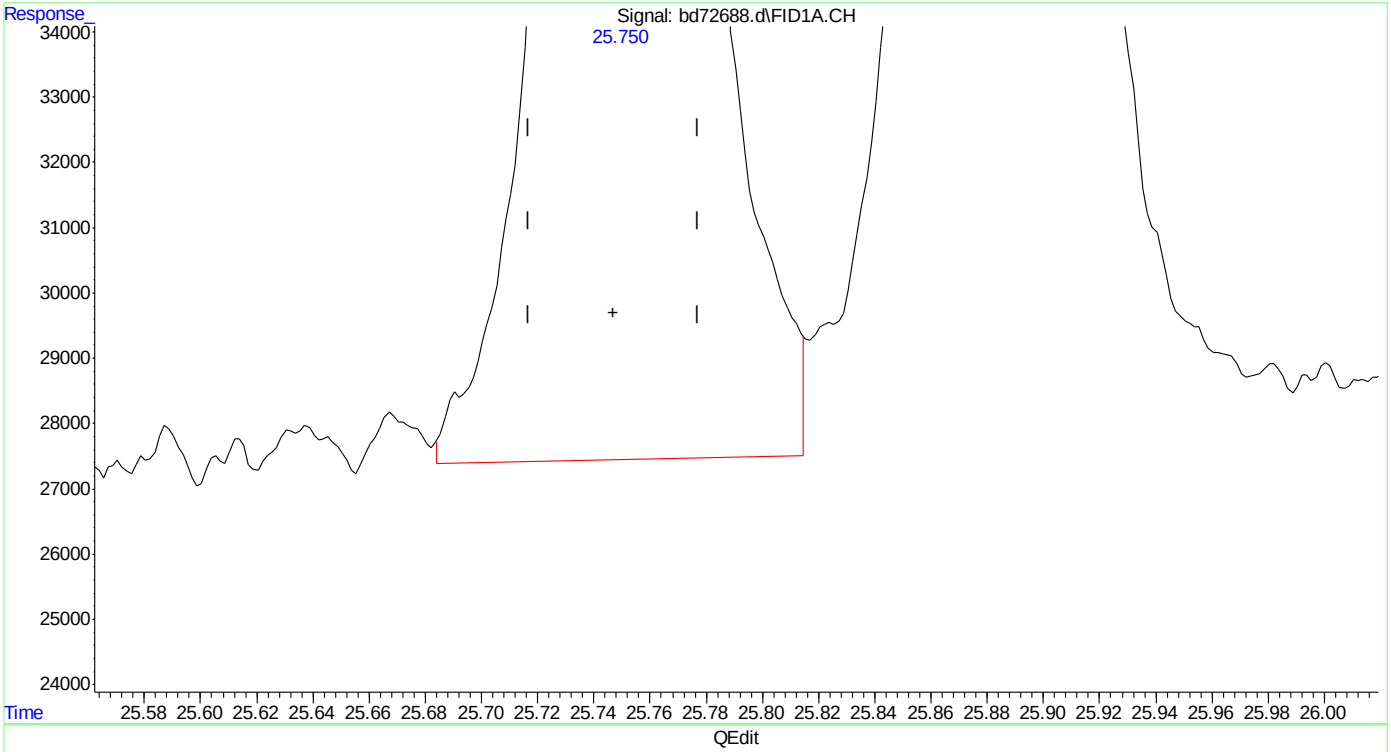
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(18) 1,2,4-trimethylbenzene

25.750min 1.067 ppb m

response 938216

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:10:59 2016

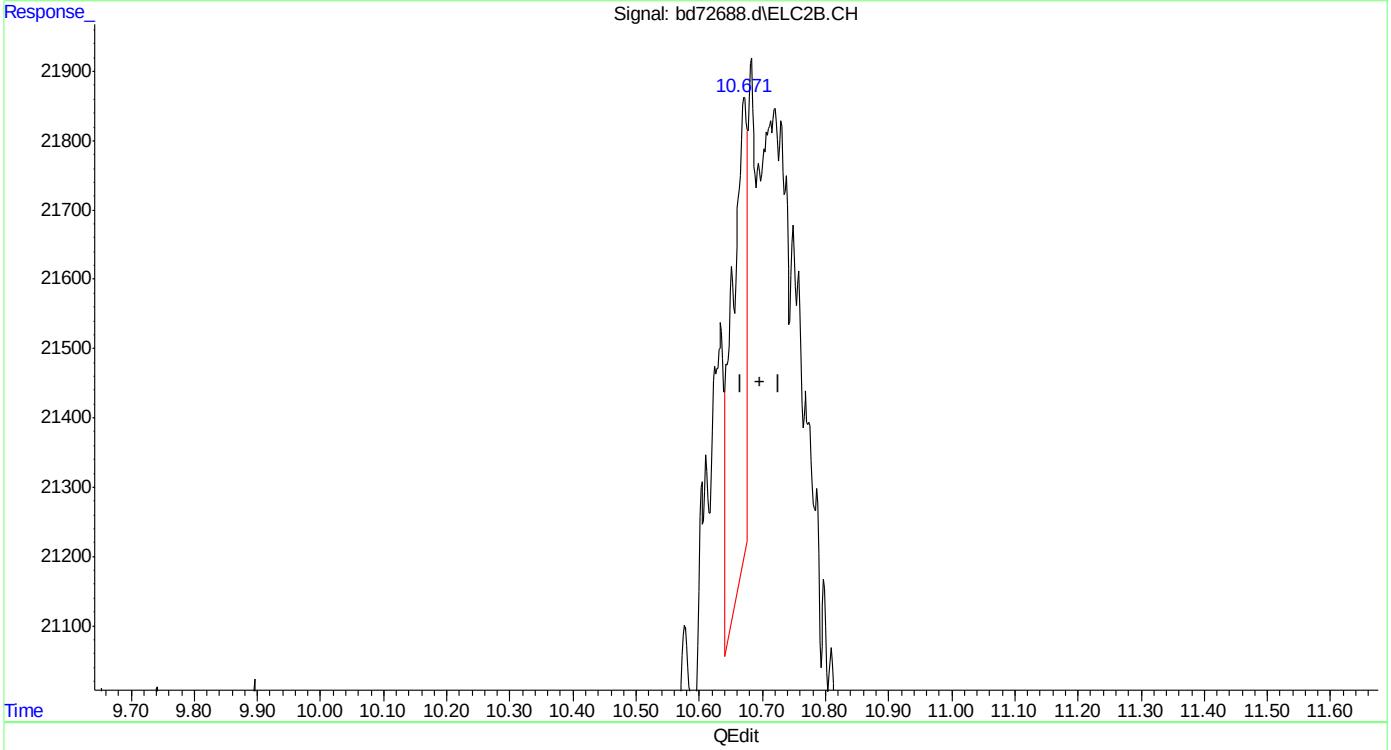
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.672min 0.071 ppb
response 11136

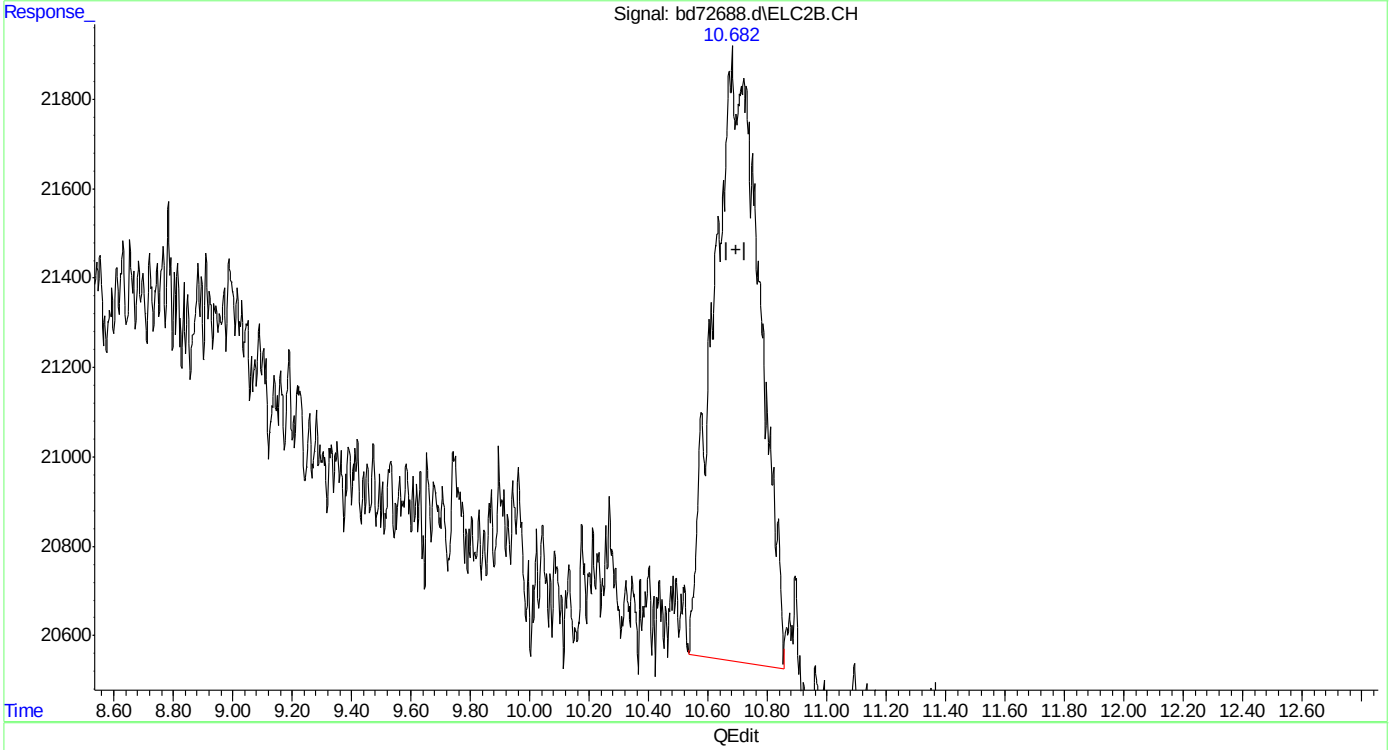
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:11:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) mtbe #2
10.682min 0.931 ppb m
response 146572

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:11:34 2016

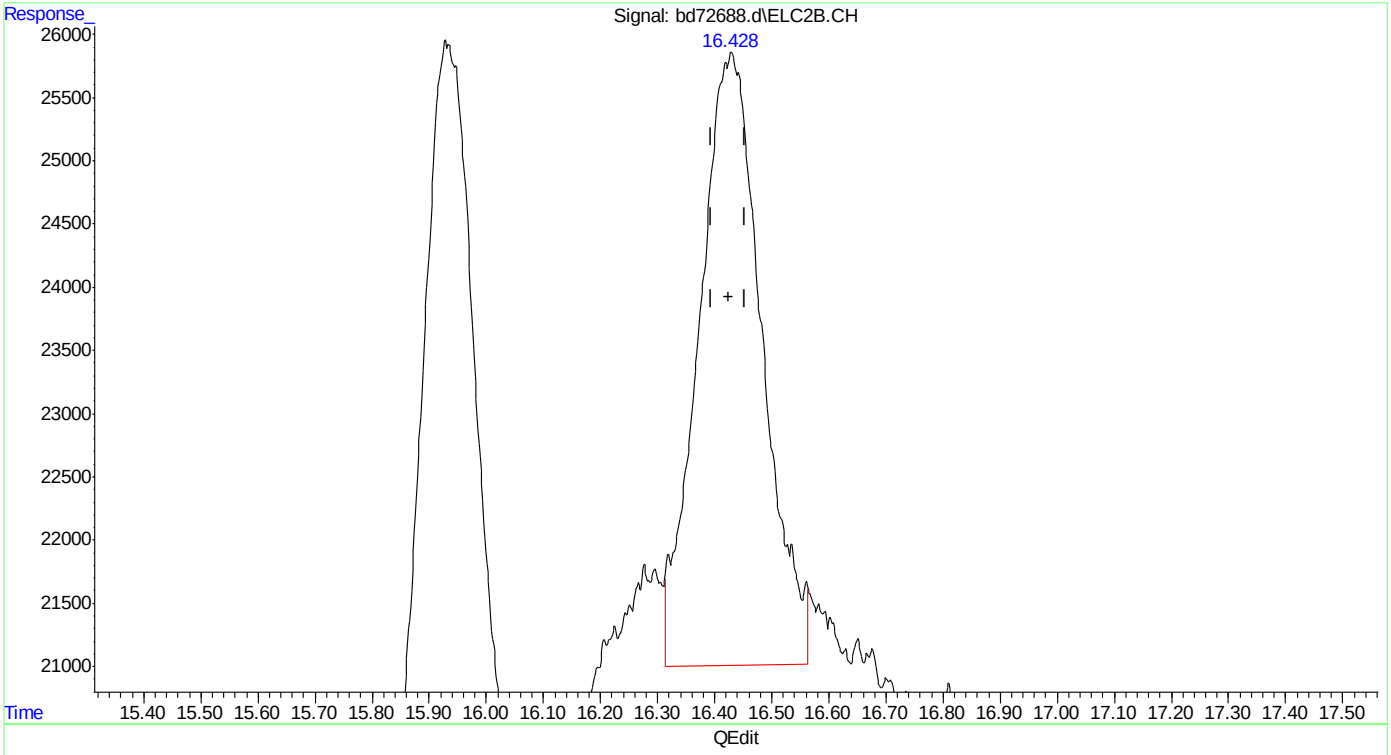
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(25) fluorobenzene #2 (s)

16.428min 1.052 ppb m

response 373315

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:03 2016

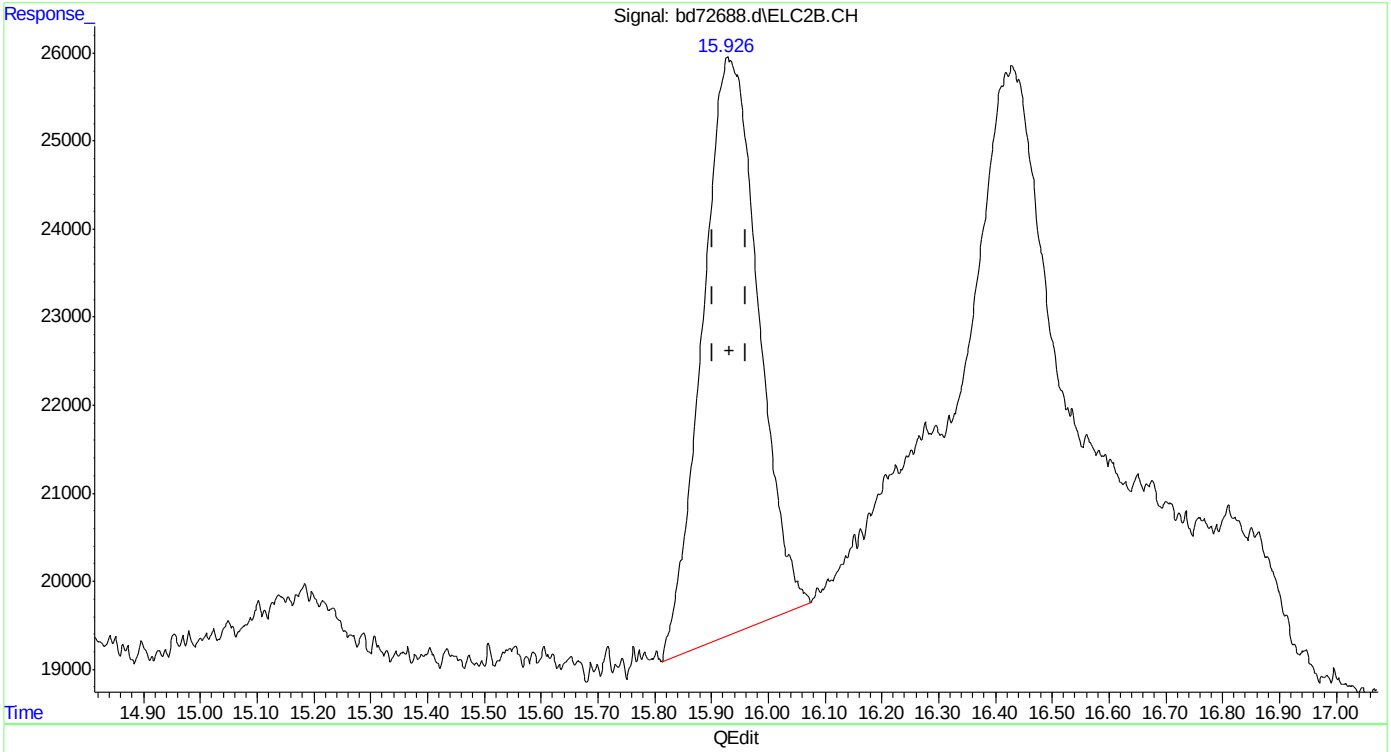
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2

15.928min 0.962 ppb

response 449314

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:07 2016 Page: 1

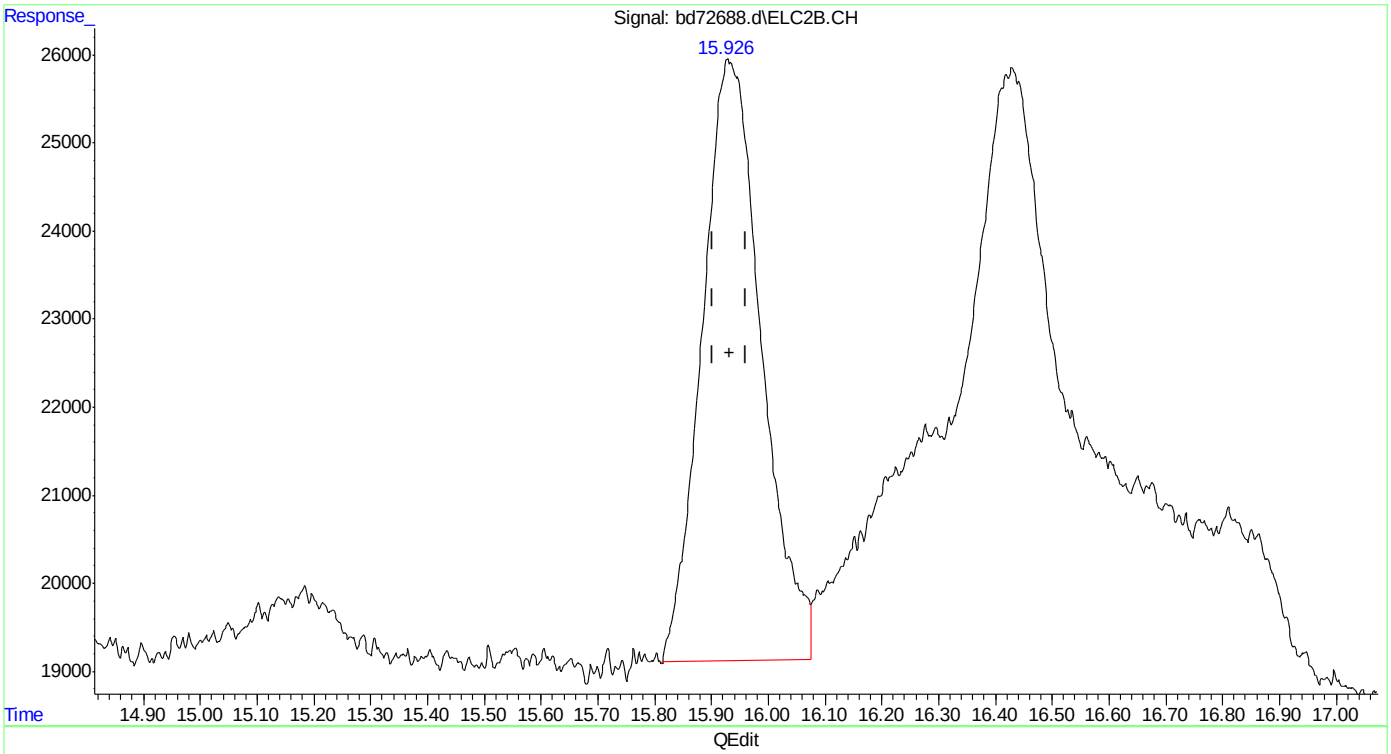
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) benzene #2

15.926min 1.064 ppb m

response 496928

(+) = Expected Retention Time

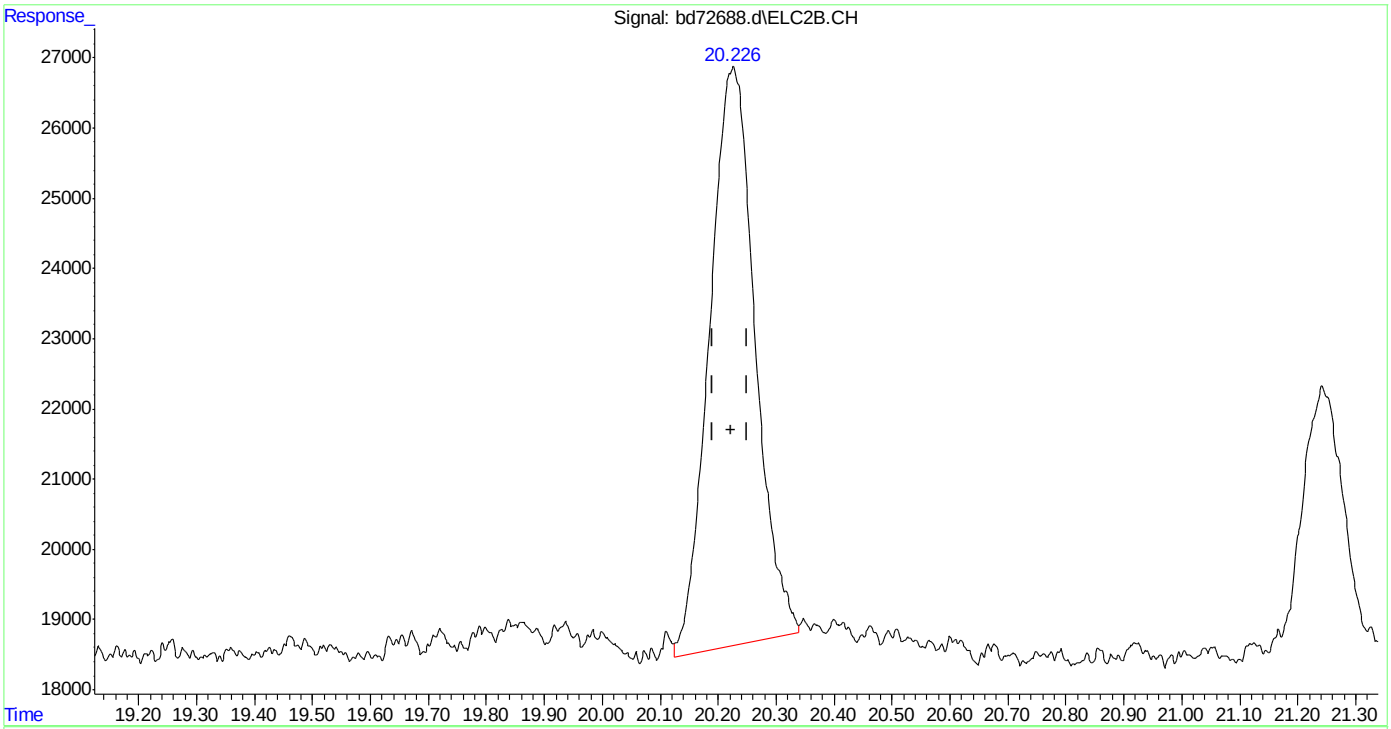
bd160219master.M Fri Feb 19 13:12:12 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2

20.227min 1.036 ppb

response 449679

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:16 2016

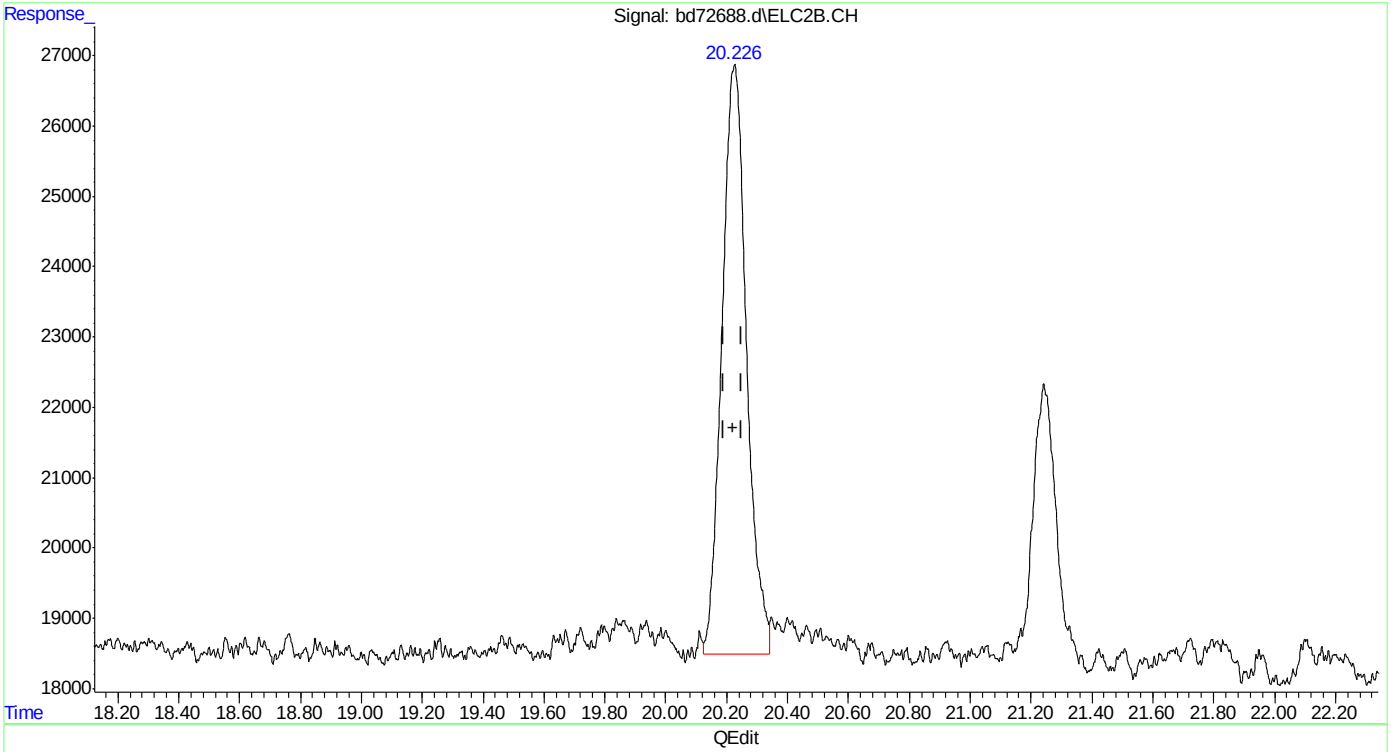
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(26) toluene #2
20.226min 1.085 ppb m
response 470661

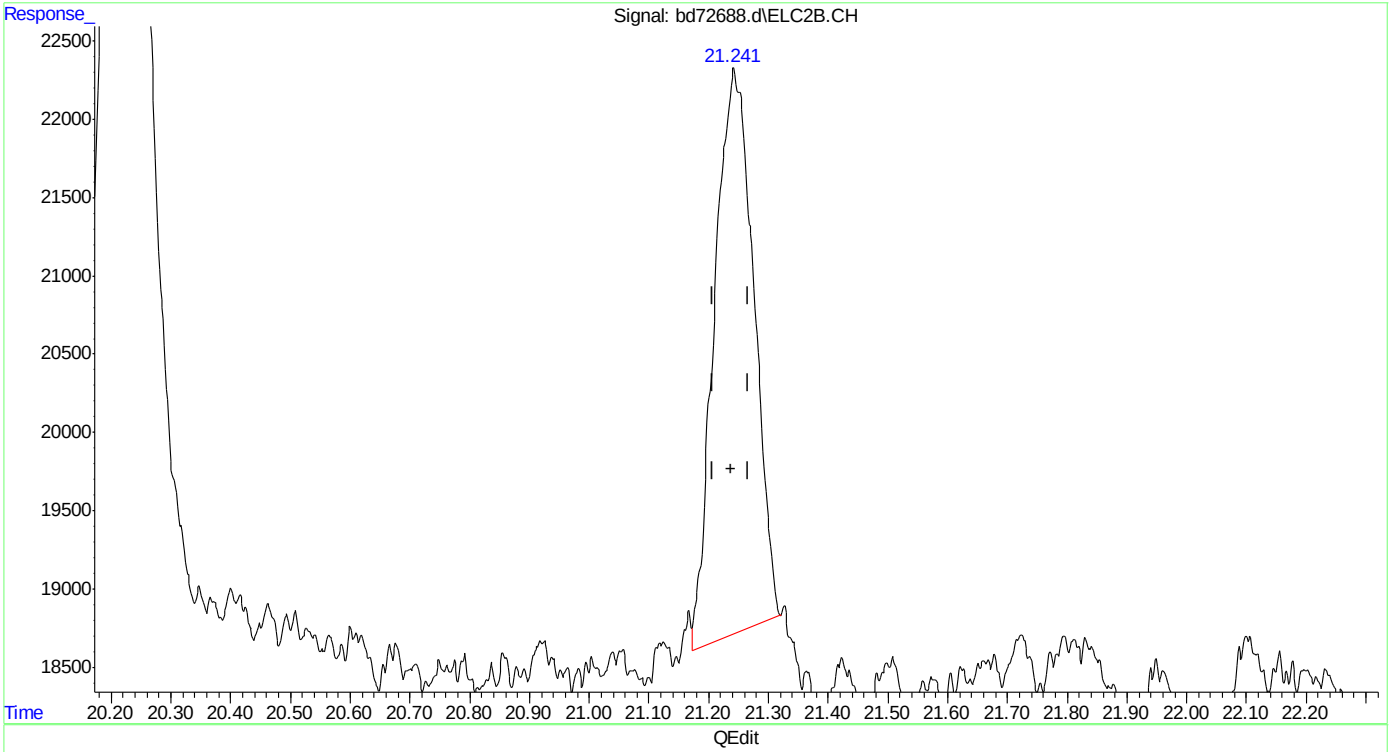
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
21.242min 0.818 ppb
response 164602

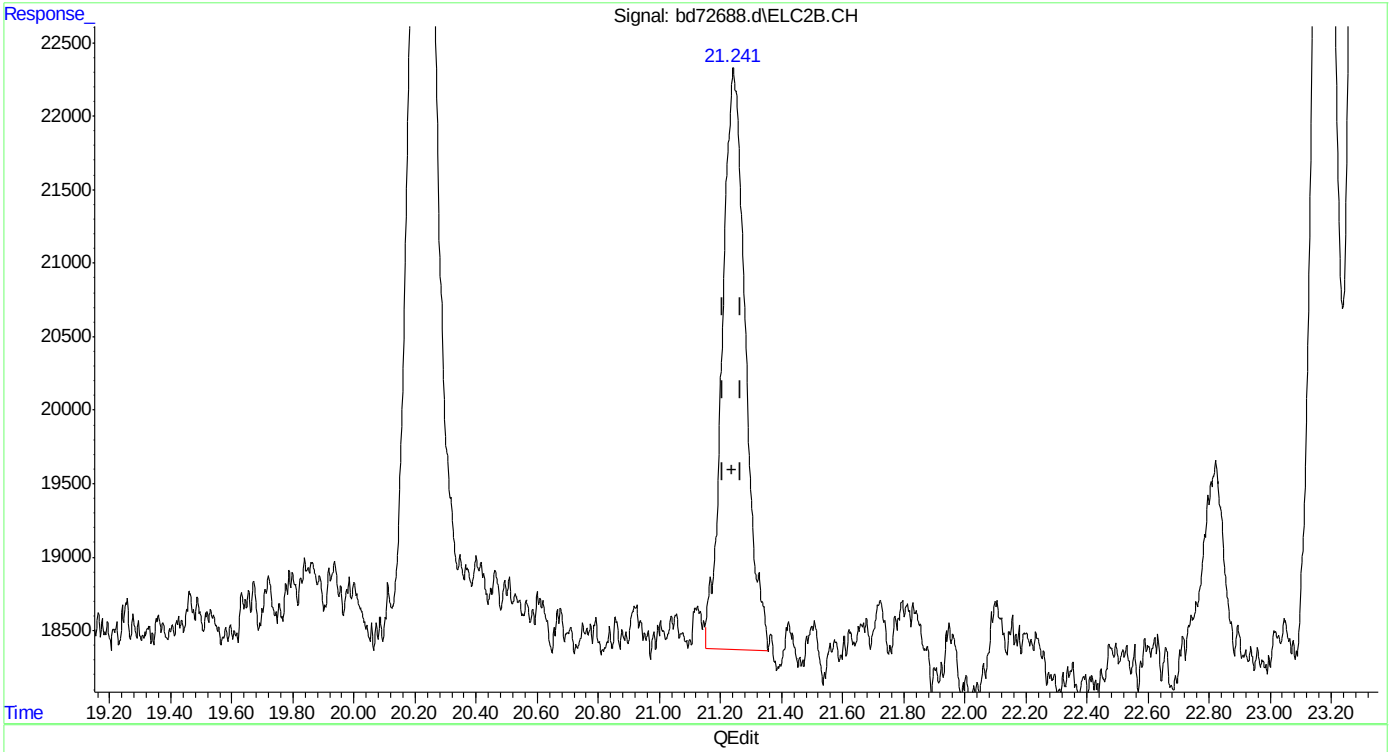
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
21.241min 1.027 ppb m
response 206659

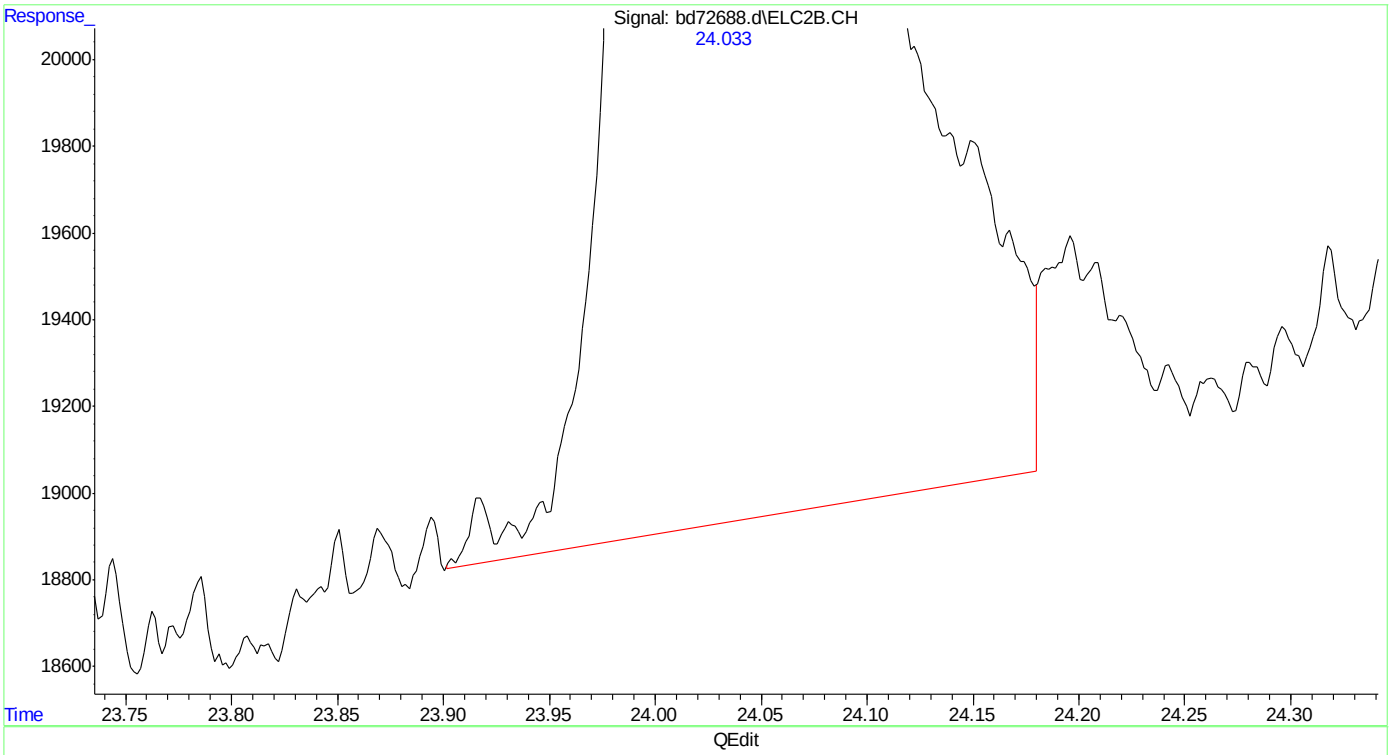
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
24.033min 1.195 ppb
response 496813

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:48 2016

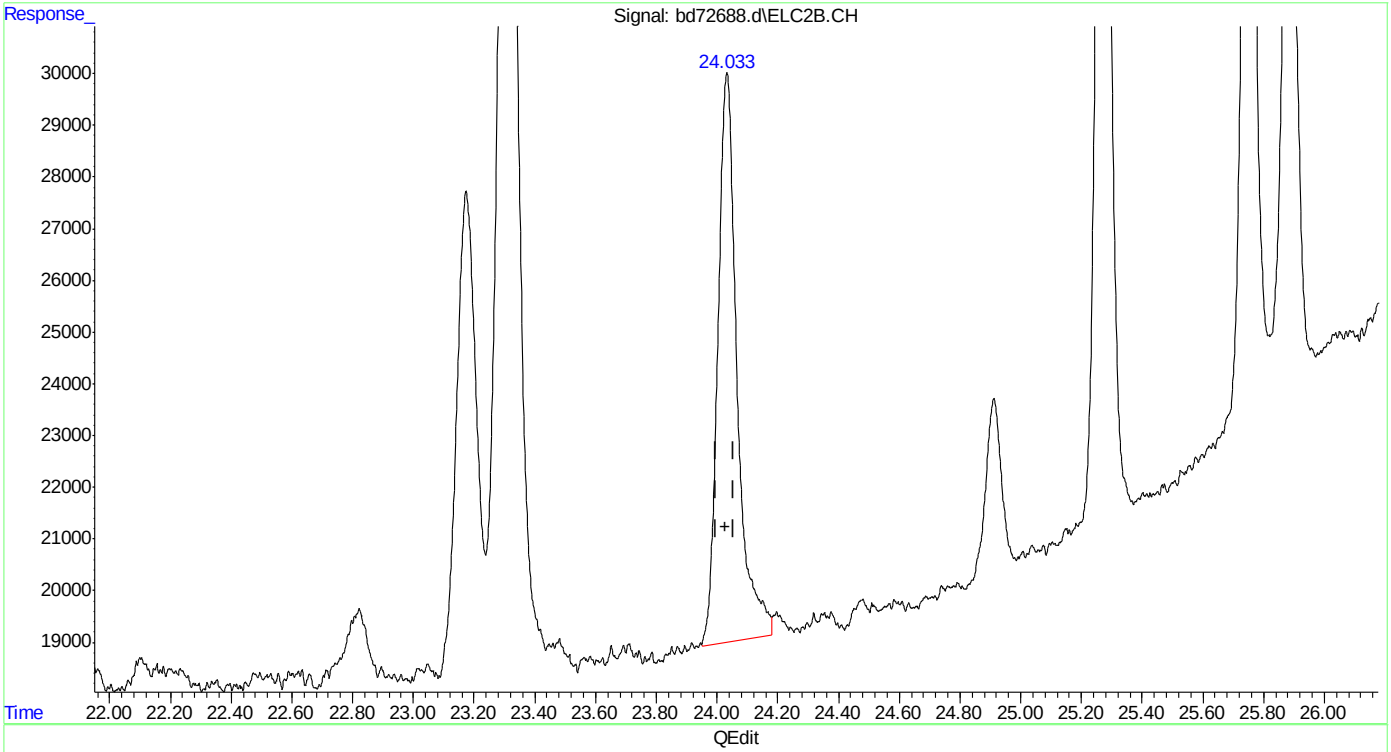
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(30) o-xylene #2
24.033min 1.164 ppb m
response 483692

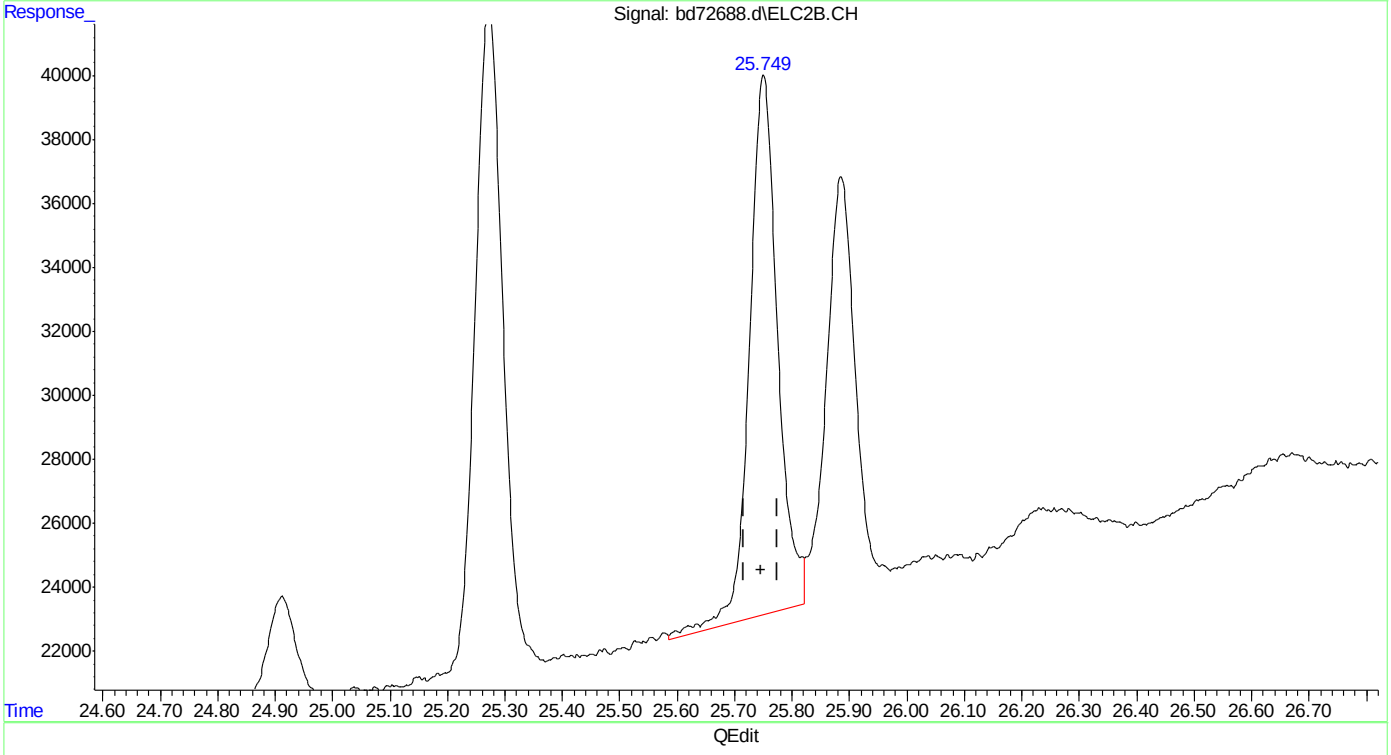
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.751min 1.232 ppb
response 578336

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:05 2016

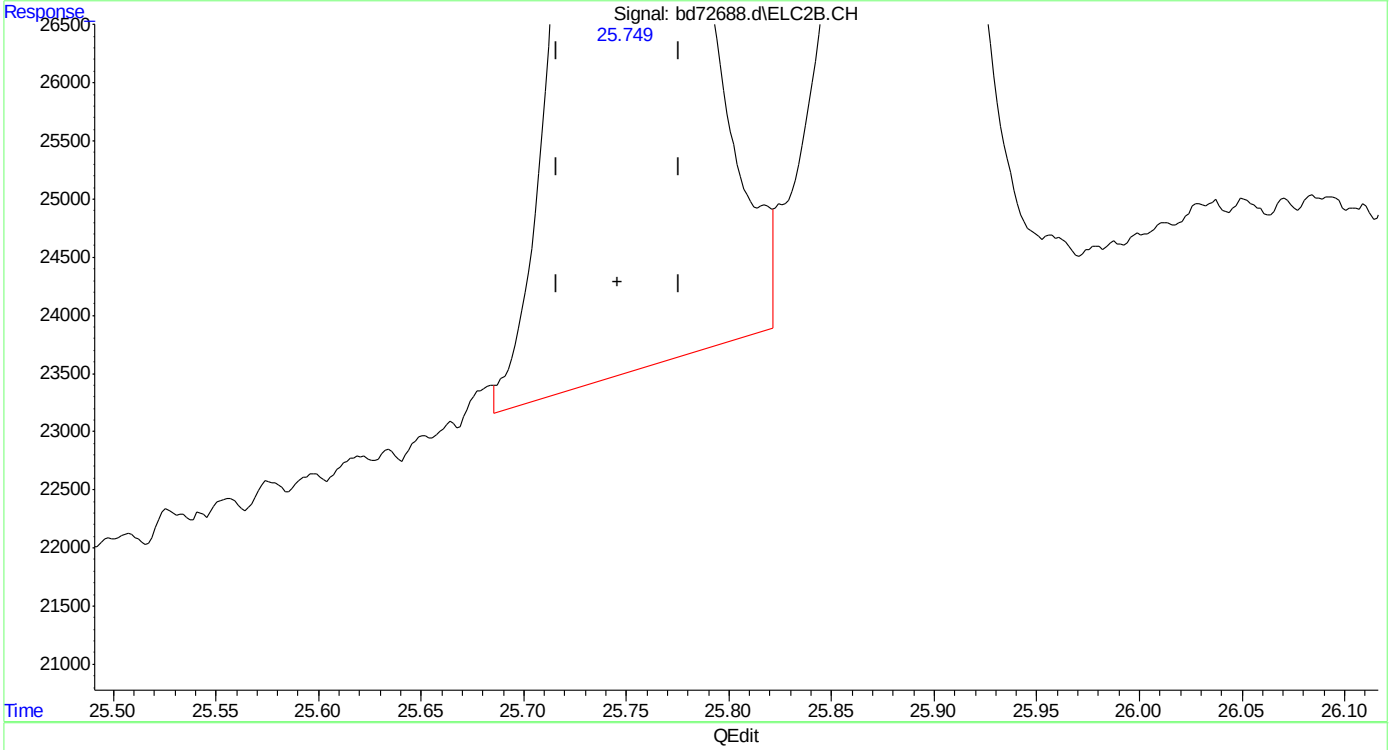
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
25.749min 1.131 ppb m
response 530966

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:19 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(33) naphthalene #2
28.756min 0.790 ppb
response 228505

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:25 2016

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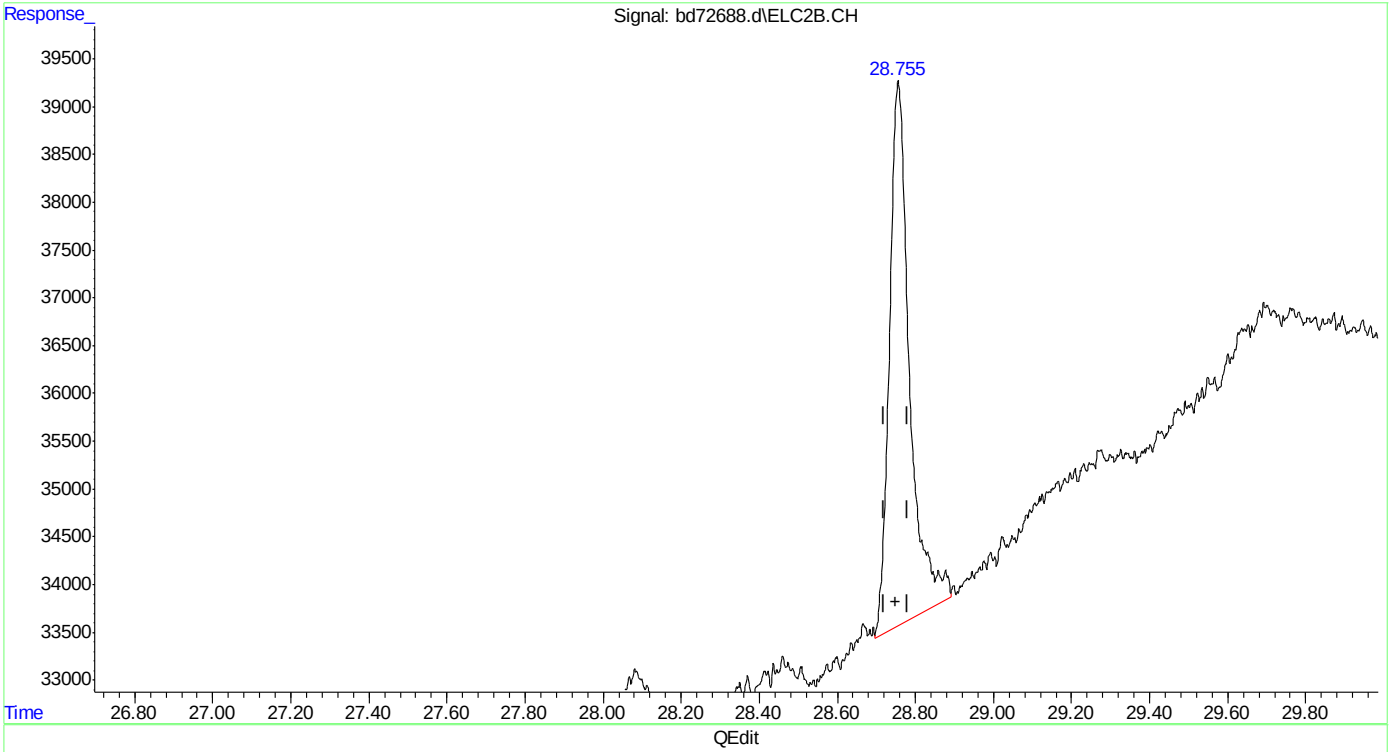
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(33) naphthalene #2
28.755min 0.707 ppb m
response 204485

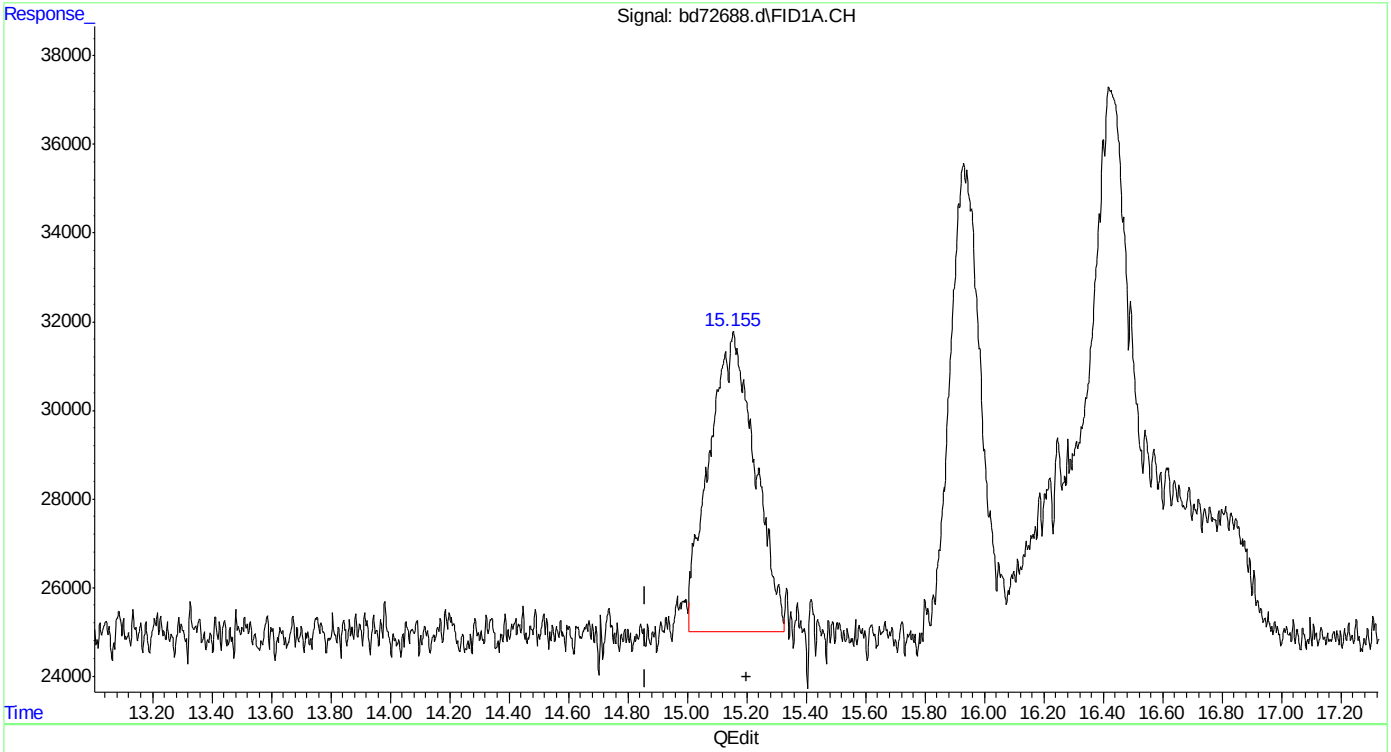
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(4) rt10/13 (h)
15.200min 1.001 ppb m
response 721543

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:14:04 2016

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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3574-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.425	657317120	961.988	ppb	
Spiked Amount 50.000		Recovery	= 1923.98%		
9) s 2,3,4-trifluorotoluene	21.238	506533597	968.857	ppb	
Spiked Amount 50.000		Recovery	= 1937.71%		
25) s fluorobenzene #2	16.425	307860163	897.087	ppb	
Spiked Amount 50.000		Recovery	= 1794.17%		
27) s 2,3,4-trifluorotoluen...	21.238	193235935	979.359	ppb	
Spiked Amount 50.000		Recovery	= 1958.72%		
Target Compounds					
1) h rt5.5-7	7.470	571775990	991.759	ppb	m
2) h rt7/10	9.920	664691568	987.821	ppb	m
3) mtbe	10.678	267375479	891.162	ppb	
4) h rt10/13	15.200	326932608	498.608	ppb	m
5) benzene	15.932	881455634	1134.894	ppb	
8) toluene	20.221	861485080	1108.961	ppb	
11) h rt20/25	22.840	696455027	838.680	ppb	m
13) ethylbenzene	23.174	853280690	1074.198	ppb	
14) m,p-xylene	23.311	1439377364	1738.716	ppb	
15) o-xylene	24.030	813797703	973.949	ppb	
16) h decane	24.930	406144732	436.324	ppb	
17) t 1,3,5-trimethylbenzene	25.272	856076033	922.191	ppb	
18) 1,2,4-trimethylbenzene	25.749	793214434	897.165	ppb	
19) h butylcyclohexane	25.908	623852508	658.454	ppb	
20) naphthalene	28.750	426083724	1009.117	ppb	m
23) mtbe #2	10.681f	136782818	875.276	ppb	
24) benzene #2	15.933	486139863	1005.904	ppb	
26) toluene #2	20.222	462559507	1024.522	ppb	
28) ethylbenzene #2	23.176	445869280	1084.433	ppb	
29) m,p-xylene #2	23.314	1026259910	2066.543	ppb	
30) o-xylene #2	24.031	455064843	1052.780	ppb	
31) t 1,3,5-trimethylbenzen...	25.273	672061053	1001.725	ppb	
32) 1,2,4-trimethylbenzen...	25.750	503182098	1025.934	ppb	
33) naphthalene #2	28.751	338646305	1054.657	ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	503156214	1026.406	ppb	m

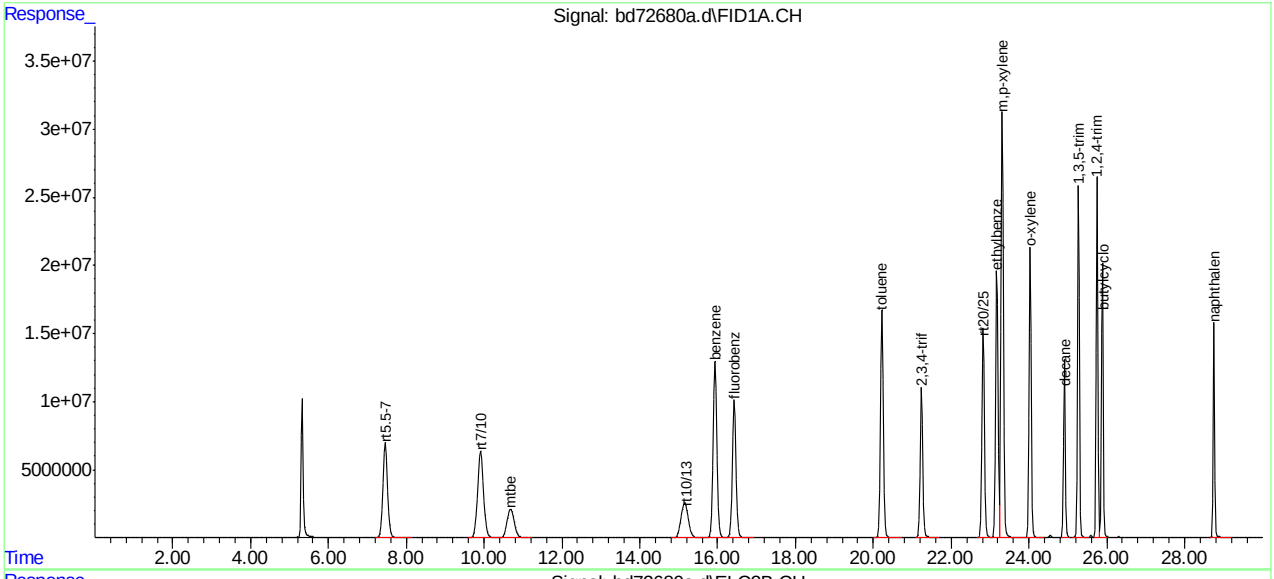
(f)=RT Delta > 1/2 Window (m)=manual int.

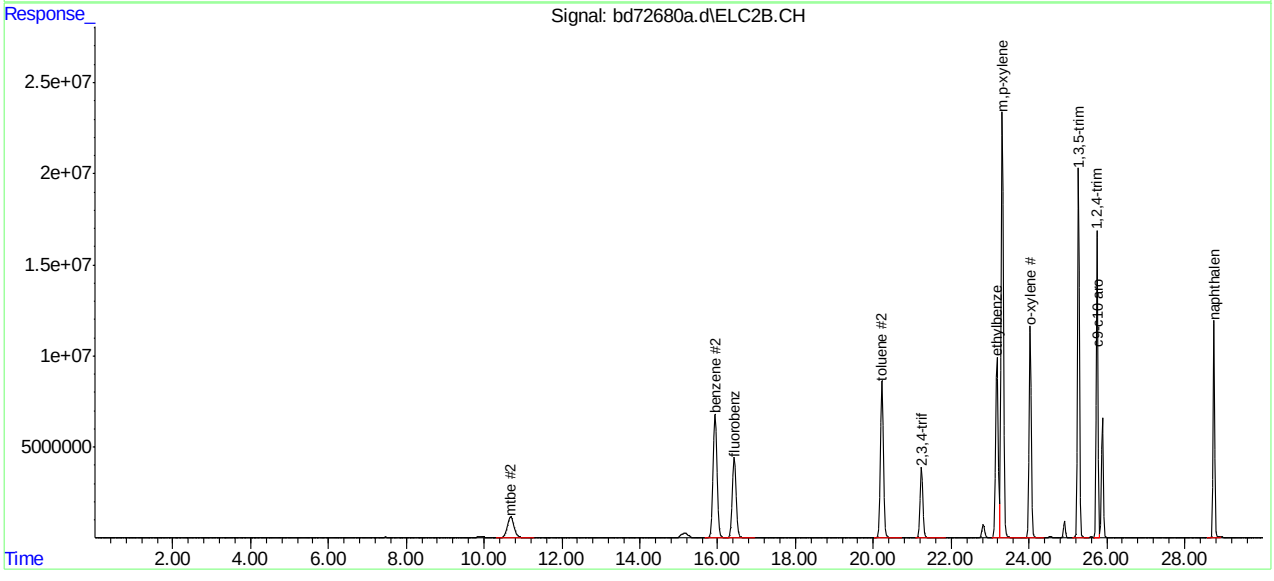
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3574-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





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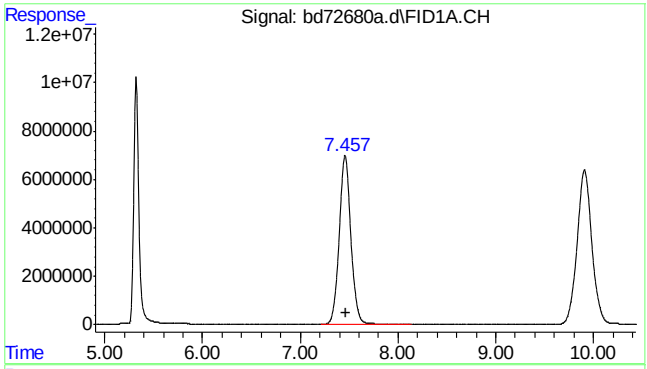
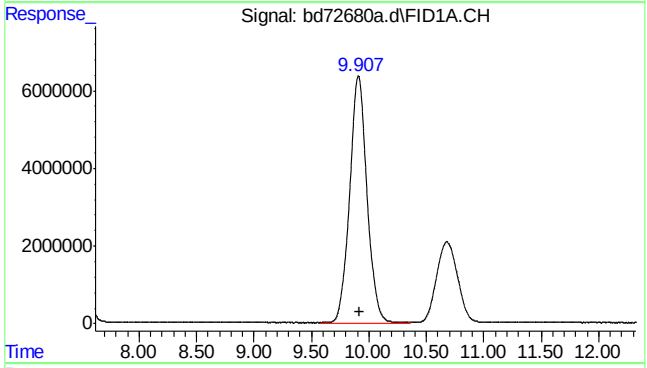


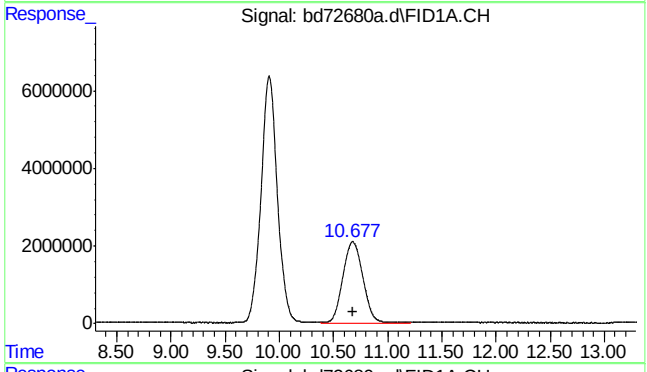
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 571775990
Conc: 991.76 ppb m



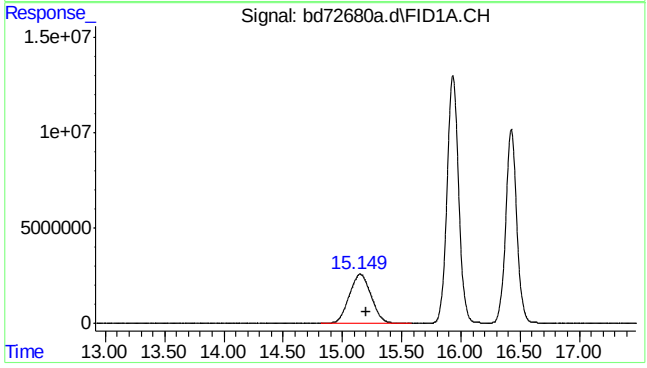
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 664691568
Conc: 987.82 ppb m



#3 mtbe

R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 267375479
Conc: 891.16 ppb



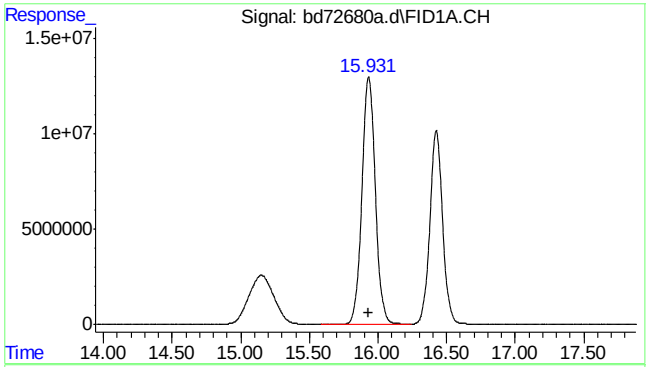
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 326932608
Conc: 498.61 ppb m

7.5.10

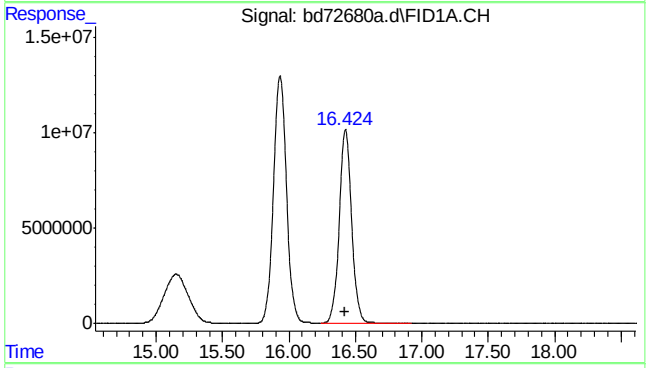
7

SGS ACCUTEST MC45969



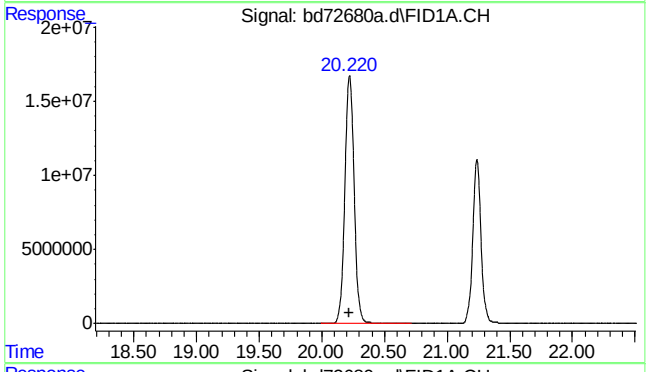
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 881455634
Conc: 1134.89 ppb



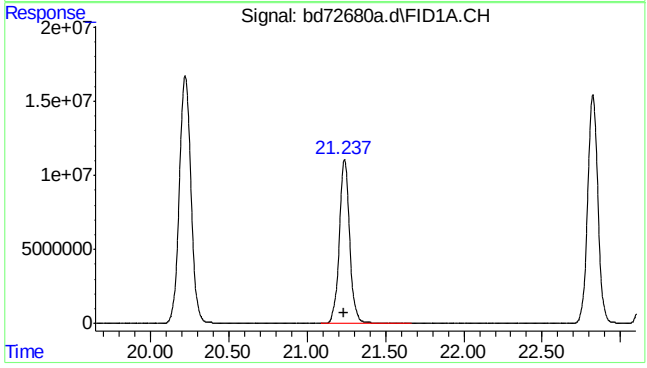
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 657317120
Conc: 961.99 ppb



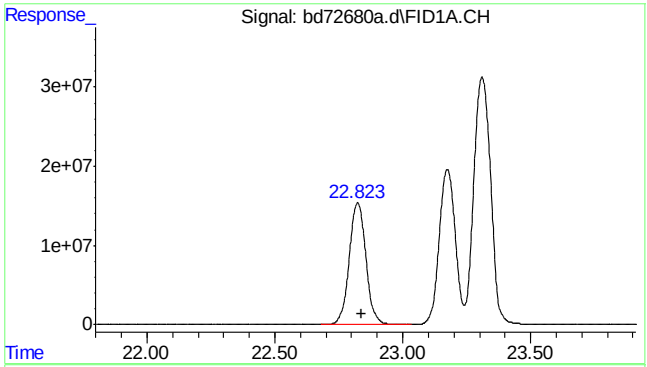
#8 toluene

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 861485080
Conc: 1108.96 ppb



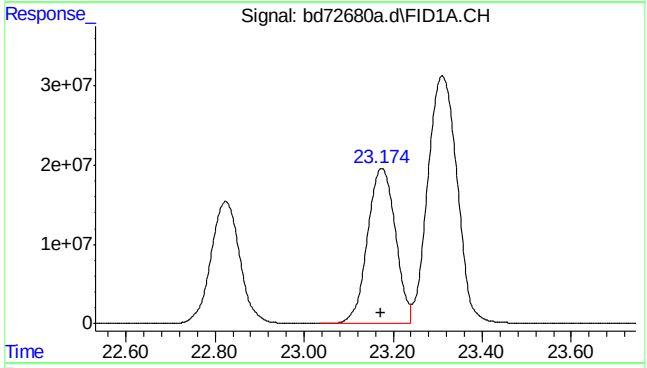
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 506533597
Conc: 968.86 ppb



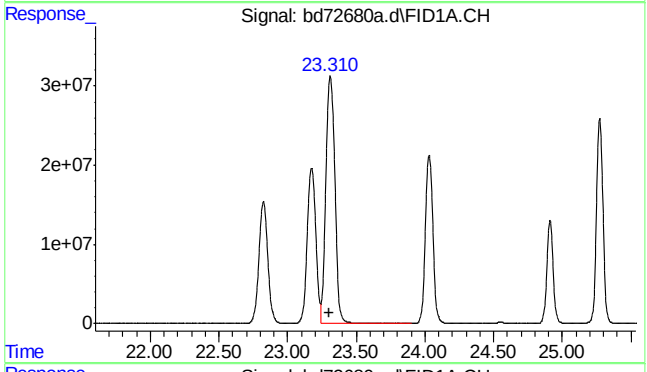
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 696455027
Conc: 838.68 ppb m



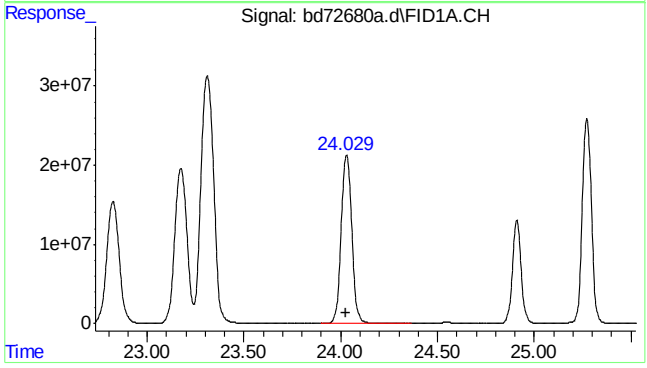
#13 ethylbenzene

R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 853280690
Conc: 1074.20 ppb



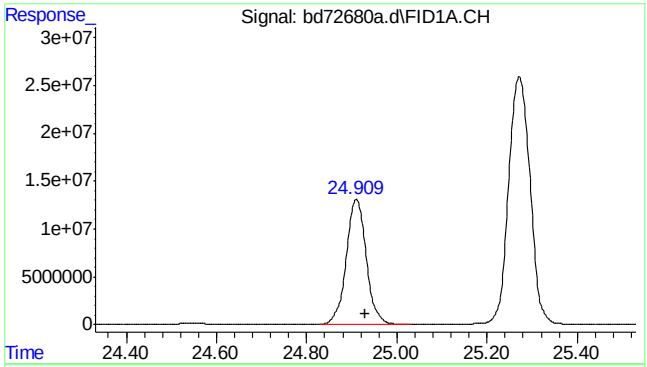
#14 m,p-xylene

R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1439377364
Conc: 1738.72 ppb



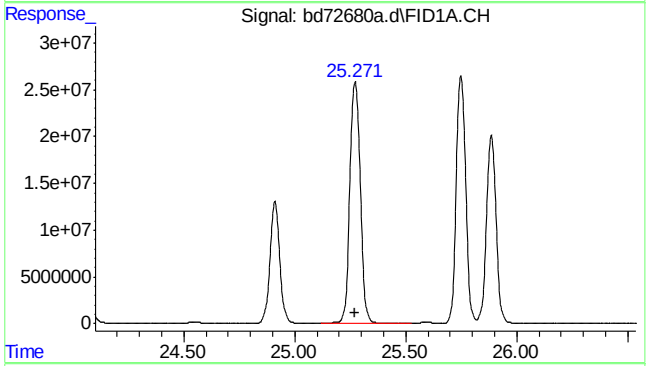
#15 o-xylene

R.T.: 24.030 min
Delta R.T.: 0.001 min
Response: 813797703
Conc: 973.95 ppb



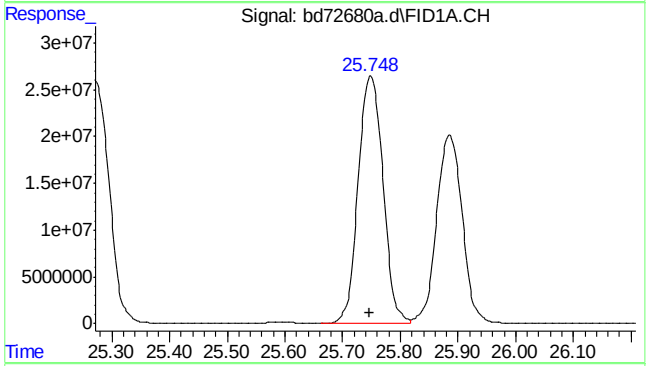
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 406144732
Conc: 436.32 ppb



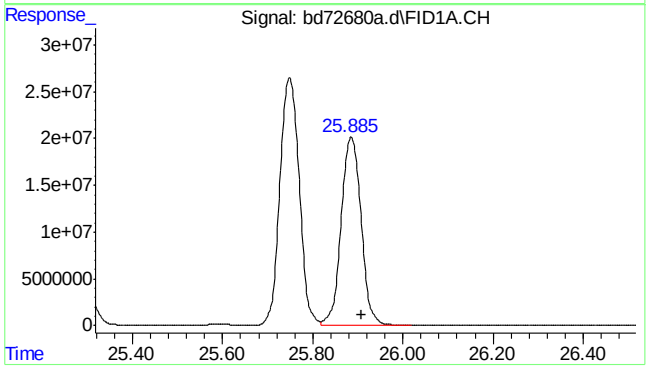
#17 1,3,5-trimethylbenzene

R.T.: 25.272 min
Delta R.T.: 0.003 min
Response: 856076033
Conc: 922.19 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 793214434
Conc: 897.17 ppb



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 623852508
Conc: 658.45 ppb

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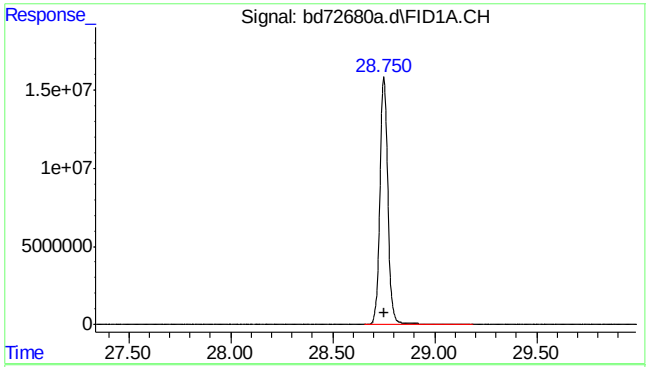
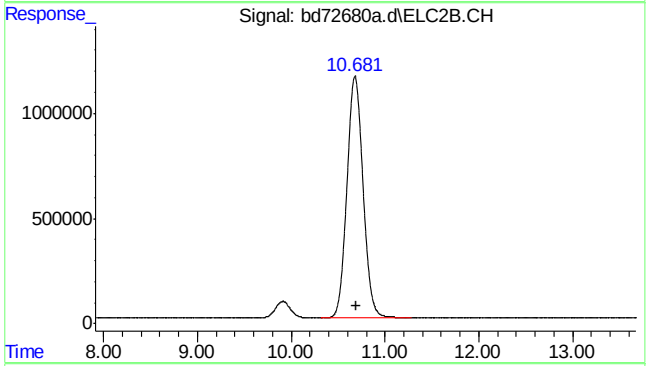


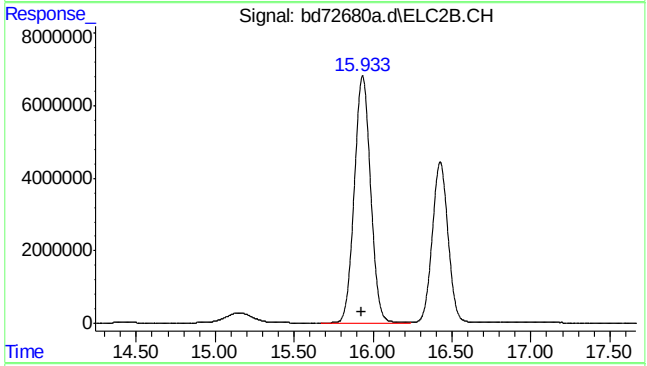
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 426083724
Conc: 1009.12 ppb m



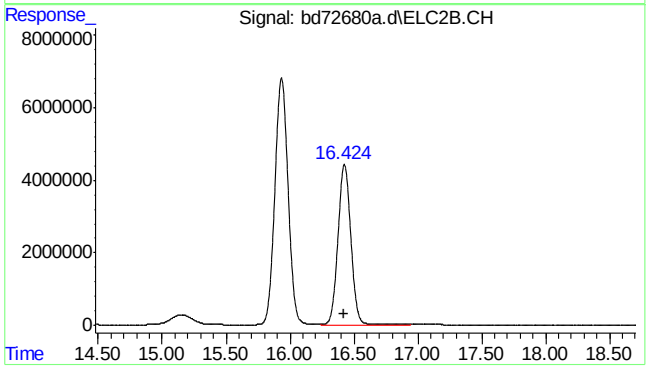
#23 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 136782818
Conc: 875.28 ppb



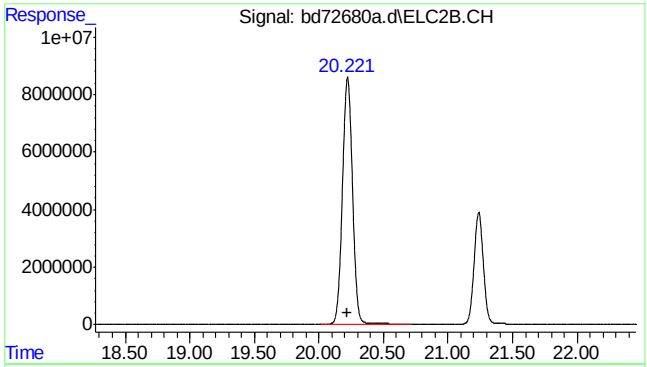
#24 benzene #2

R.T.: 15.933 min
Delta R.T.: 0.001 min
Response: 486139863
Conc: 1005.90 ppb



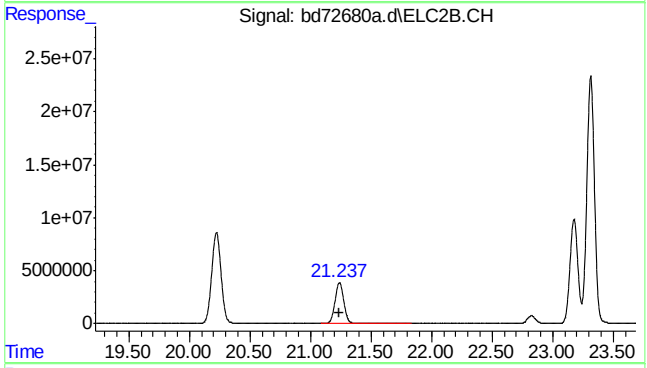
#25 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 307860163
Conc: 897.09 ppb



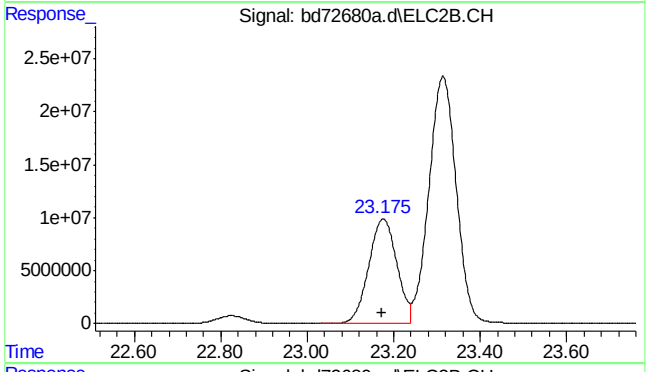
#26 toluene #2

R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 462559507
Conc: 1024.52 ppb



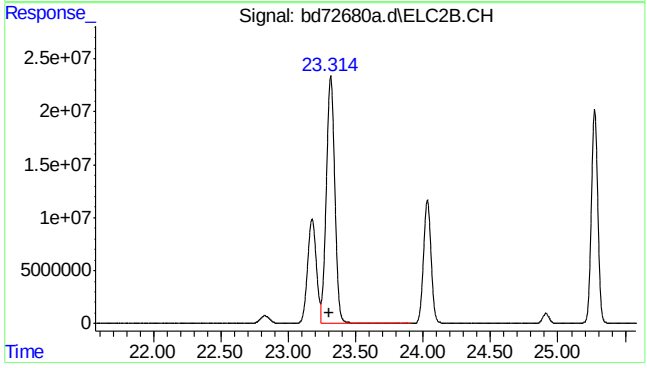
#27 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.001 min
Response: 193235935
Conc: 979.36 ppb



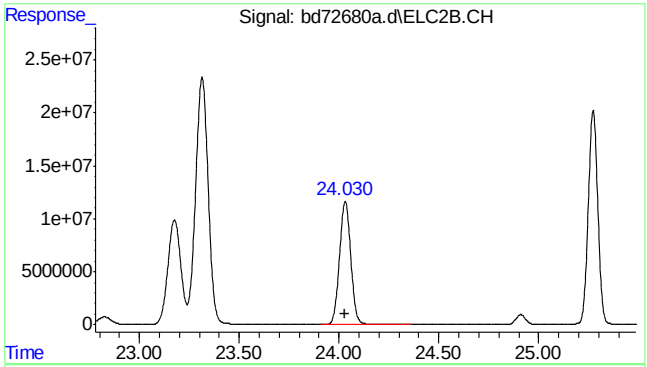
#28 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: 0.004 min
Response: 445869280
Conc: 1084.43 ppb



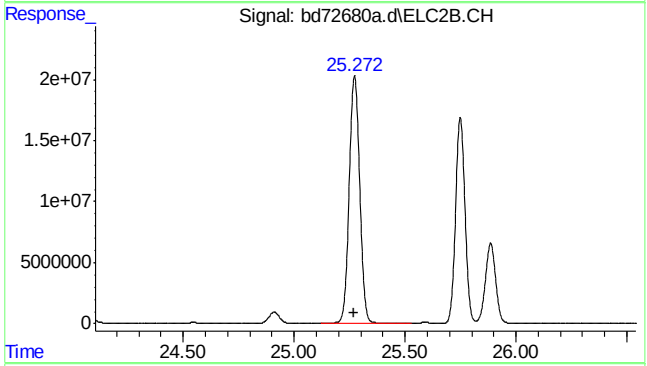
#29 m,p-xylene #2

R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 1026259910
Conc: 2066.54 ppb



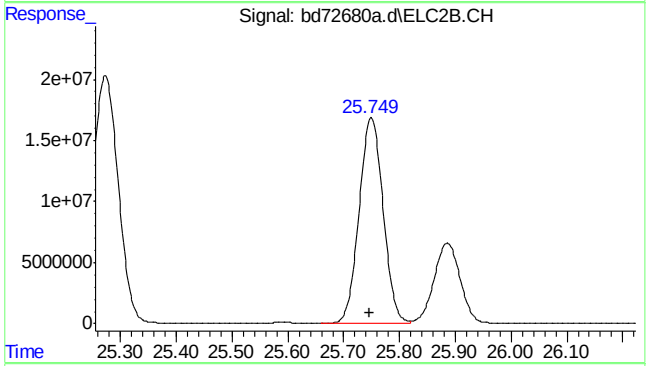
#30 o-xylene #2

R.T.: 24.031 min
Delta R.T.: 0.003 min
Response: 455064843
Conc: 1052.78 ppb



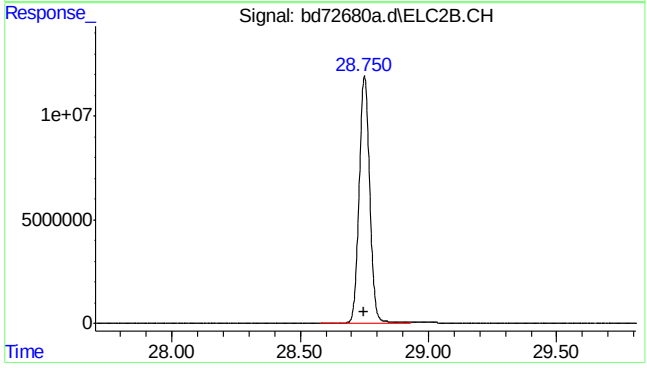
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 672061053
Conc: 1001.72 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.750 min
Delta R.T.: 0.004 min
Response: 503182098
Conc: 1025.93 ppb



#33 naphthalene #2

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 338646305
Conc: 1054.66 ppb

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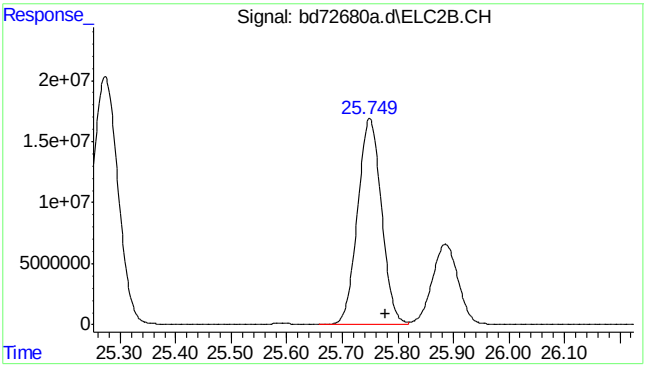


#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 503156214
Conc: 1026.41 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3574-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.424	280256461	399.892	ppb	
Spiked Amount 50.000		Recovery	= 799.78%		
9) s 2,3,4-trifluorotoluene	21.236	223973992	419.811	ppb	
Spiked Amount 50.000		Recovery	= 839.62%		
25) s fluorobenzene #2	16.423	154535173	444.003	ppb	
Spiked Amount 50.000		Recovery	= 888.01%		
27) s 2,3,4-trifluorotoluen...	21.236	93431261	469.974	ppb	
Spiked Amount 50.000		Recovery	= 939.95%		
Target Compounds					
1) h rt5.5-7	7.470	250696304	426.891	ppb	m
2) h rt7/10	9.920	302369528	442.953	ppb	m
3) mtbe	10.677	149463905	497.901	ppb	
4) h rt10/13	15.200	202634743	293.051	ppb	m
5) benzene	15.932	369202764	472.034	ppb	
8) toluene	20.219	393743577	507.847	ppb	
11) h rt20/25	22.840	346681859	407.862	ppb	m
13) ethylbenzene	23.171	415193330	526.099	ppb	
14) m,p-xylene	23.307	837537821	1013.412	ppb	
15) o-xylene	24.028	409323205	488.463	ppb	
16) h decane	24.930	328410851	338.576	ppb	
17) t 1,3,5-trimethylbenzene	25.270	460707488	495.762	ppb	
18) 1,2,4-trimethylbenzene	25.747	446599621	505.867	ppb	
19) h butylcyclohexane	25.908	364778065	372.763	ppb	
20) naphthalene	28.748	235968786	568.416	ppb	m
23) mtbe #2	10.676f	72995113	462.747	ppb	
24) benzene #2	15.931	243796320	505.098	ppb	
26) toluene #2	20.219	229409498	509.300	ppb	
28) ethylbenzene #2	23.171	214894088	526.067	ppb	
29) m,p-xylene #2	23.308	505002305	1019.367	ppb	
30) o-xylene #2	24.028	220290152	511.042	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	339709347	507.265	ppb	
32) 1,2,4-trimethylbenzen...	25.747	256663102	526.816	ppb	
33) naphthalene #2	28.748	191420125	612.985	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	256536580	526.828	ppb	m

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

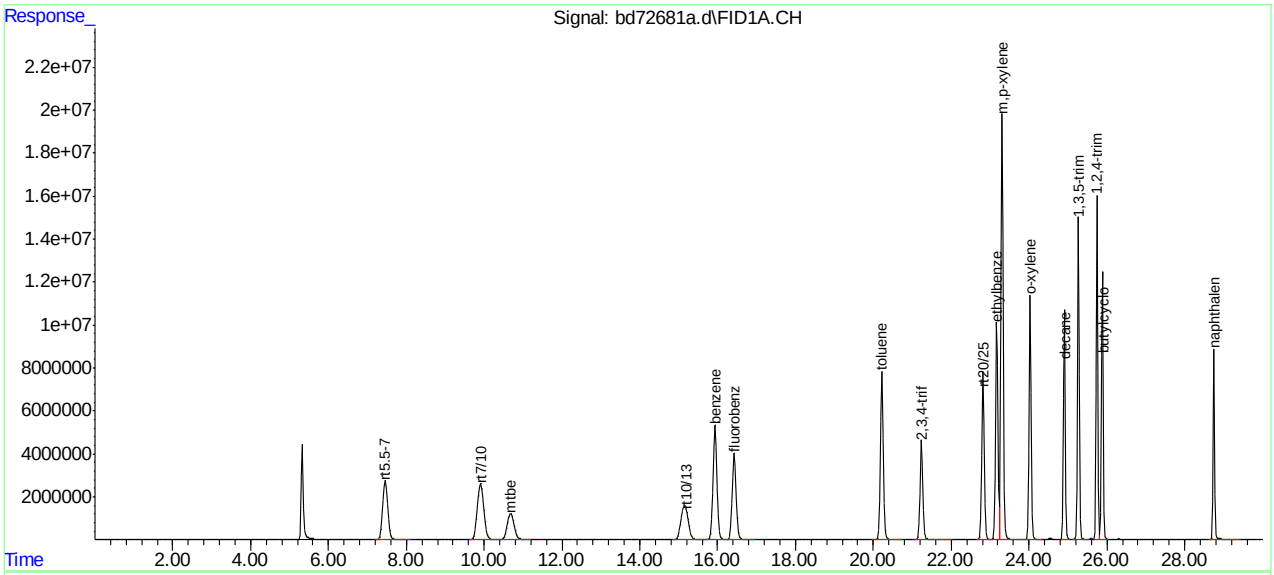
SGS ACCUTEST MC45969

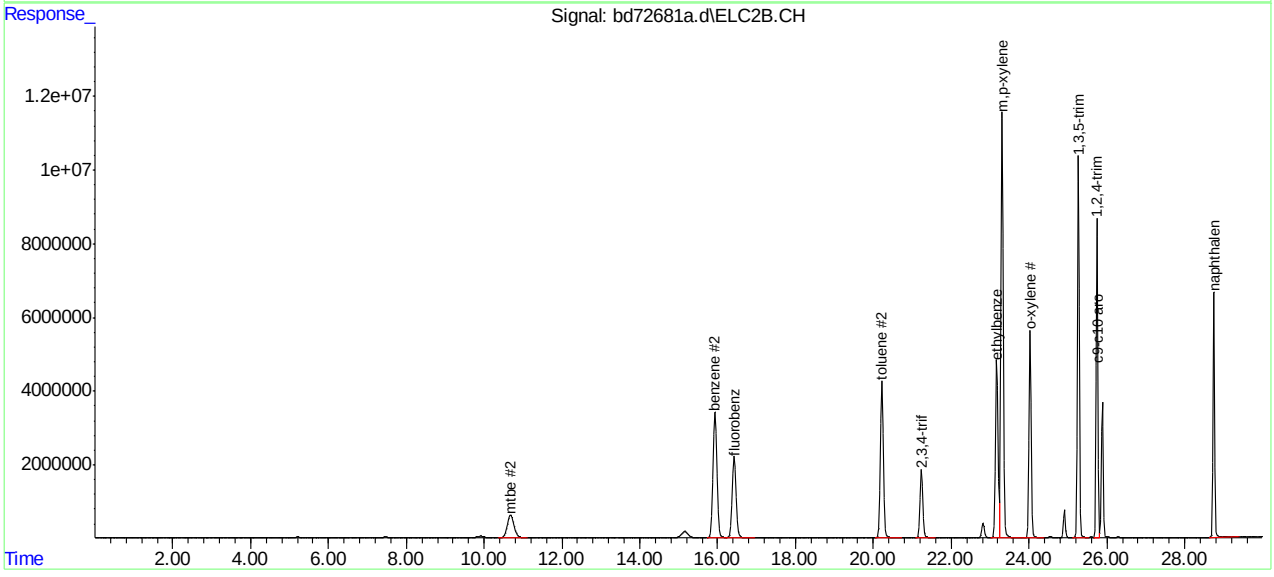
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3574-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

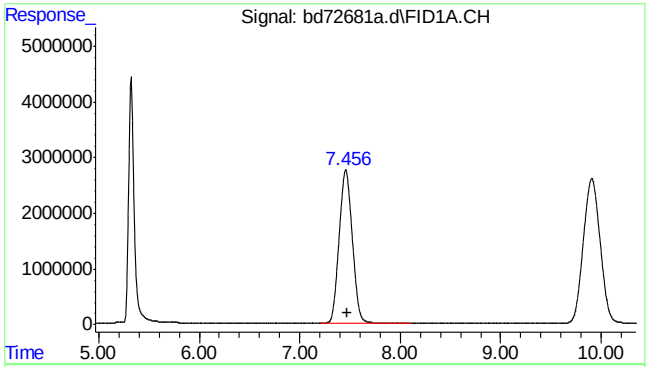
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



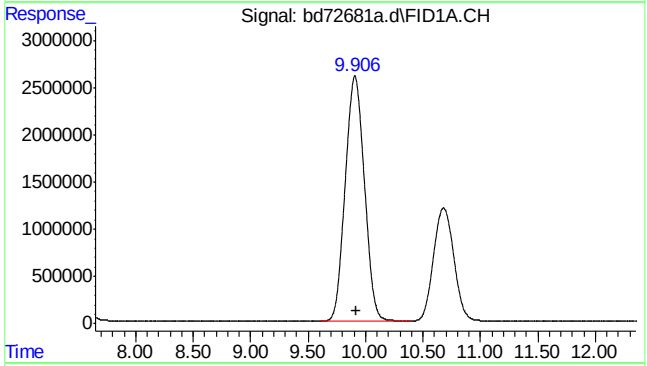


SGS ACCUTEST MC45969



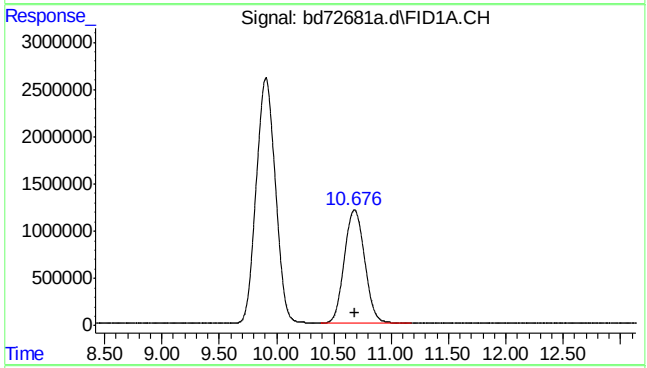
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 250696304
Conc: 426.89 ppb m



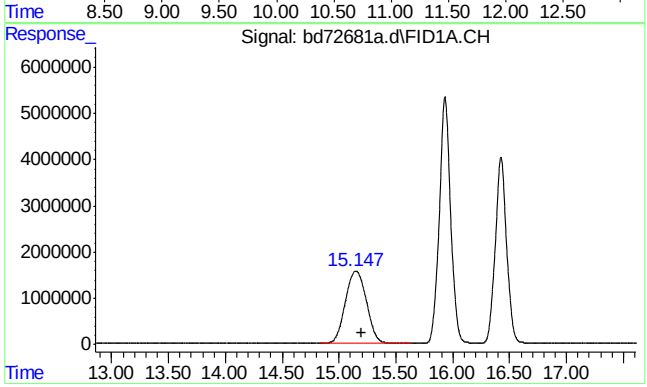
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 302369528
Conc: 442.95 ppb m



#3 mtbe

R.T.: 10.677 min
Delta R.T.: -0.006 min
Response: 149463905
Conc: 497.90 ppb



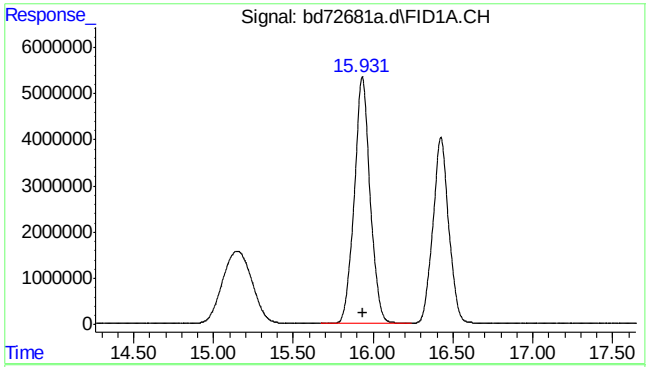
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 202634743
Conc: 293.05 ppb m

7.5.11

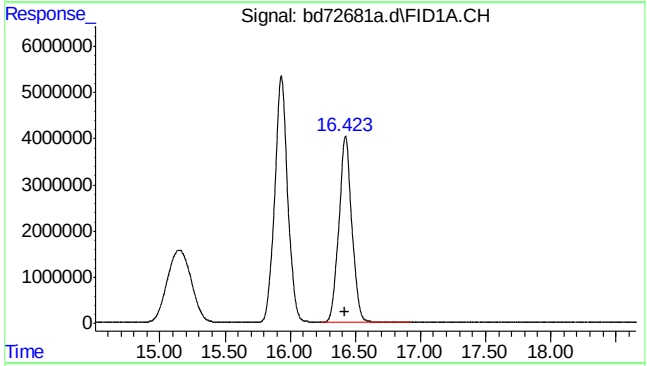
7

SGS ACCUTEST MC45969



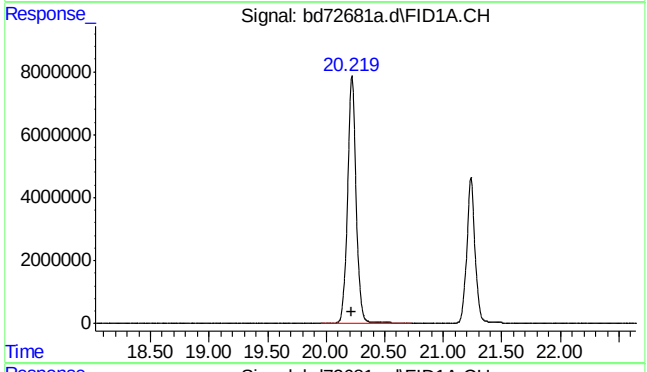
#5 benzene

R.T.: 15.932 min
Delta R.T.: -0.001 min
Response: 369202764
Conc: 472.03 ppb



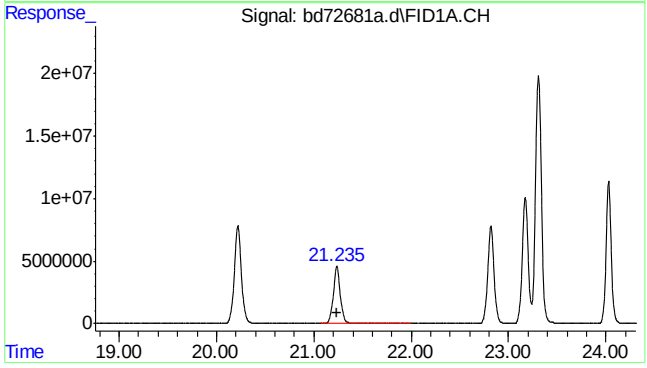
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 280256461
Conc: 399.89 ppb



#8 toluene

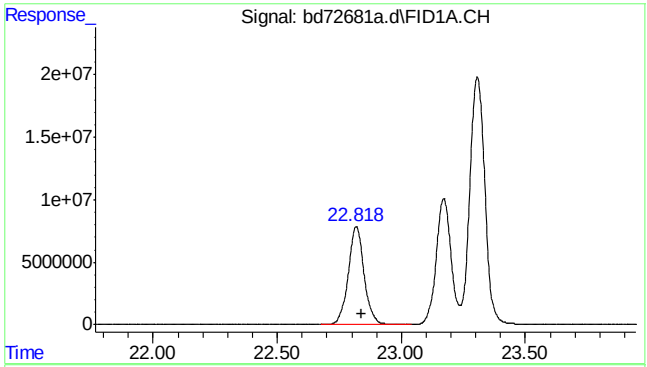
R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 393743577
Conc: 507.85 ppb



#9 2,3,4-trifluorotoluene

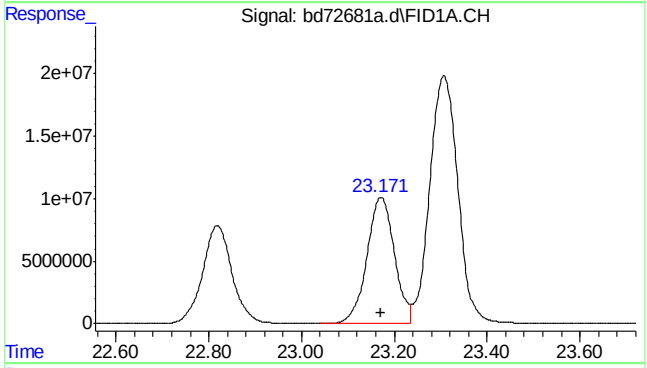
R.T.: 21.236 min
Delta R.T.: 0.000 min
Response: 223973992
Conc: 419.81 ppb

SGS ACCUTEST MC45969



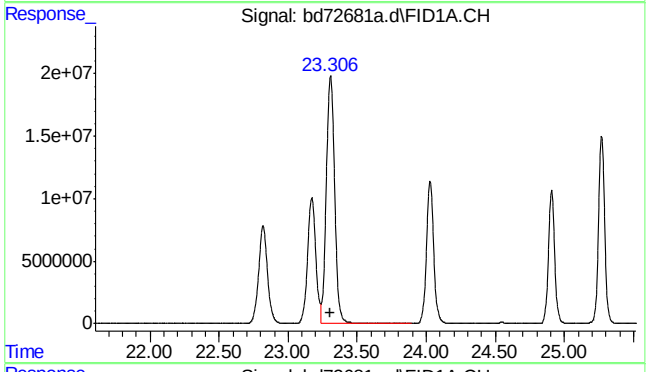
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 346681859
Conc: 407.86 ppb m



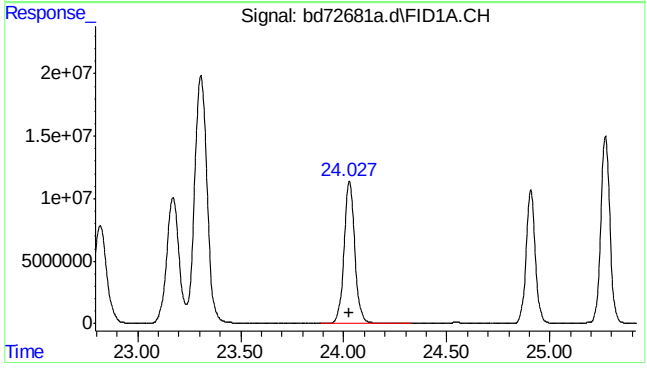
#13 ethylbenzene

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 415193330
Conc: 526.10 ppb



#14 m,p-xylene

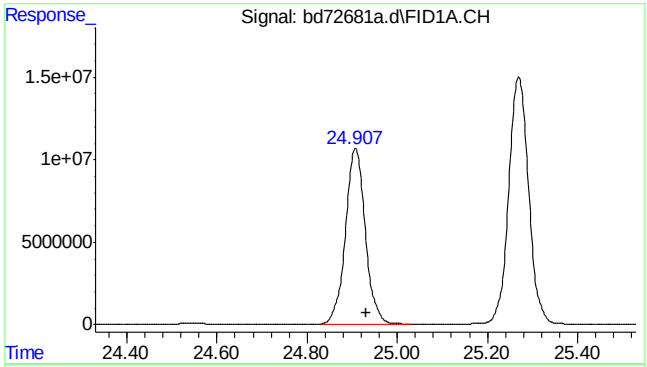
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 837537821
Conc: 1013.41 ppb



#15 o-xylene

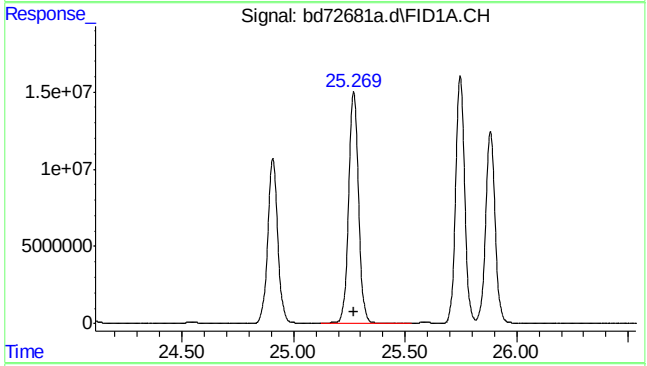
R.T.: 24.028 min
Delta R.T.: -0.001 min
Response: 409323205
Conc: 488.46 ppb

SGS ACCUTEST MC45969



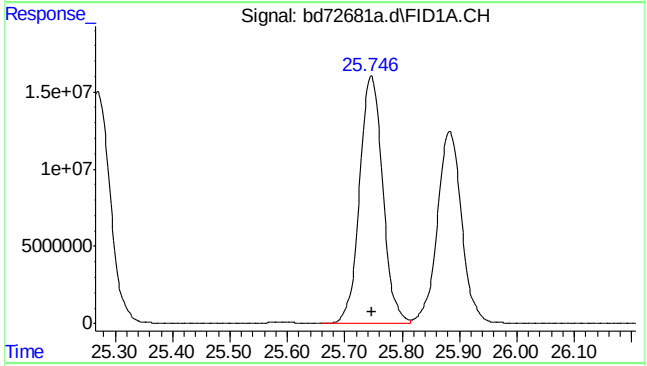
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 328410851
Conc: 338.58 ppb



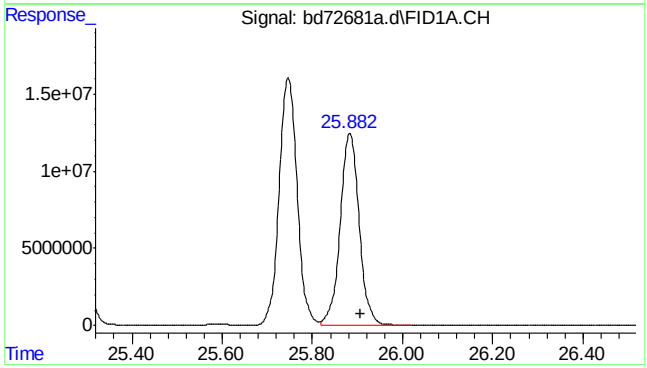
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 460707488
Conc: 495.76 ppb



#18 1,2,4-trimethylbenzene

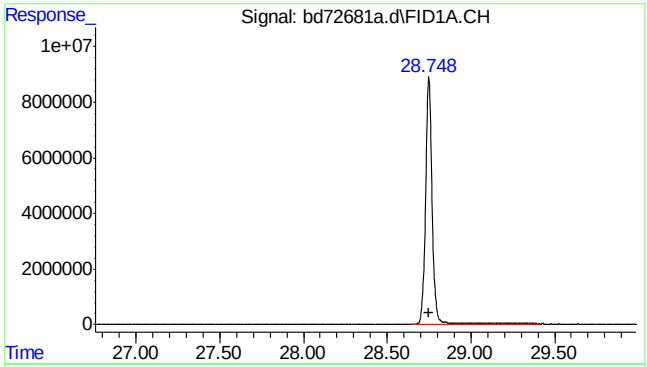
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 446599621
Conc: 505.87 ppb



#19 butylcyclohexane

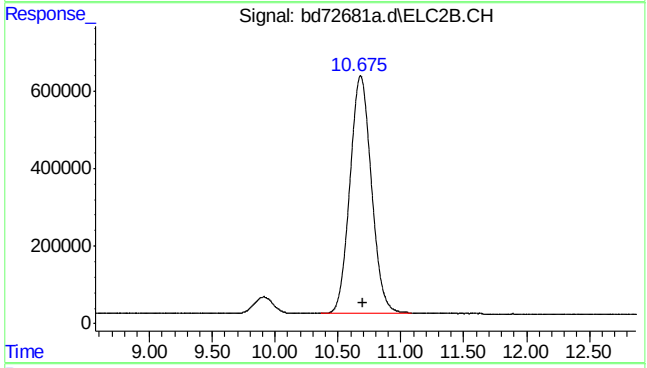
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 364778065
Conc: 372.76 ppb

SGS ACCUTEST MC45969



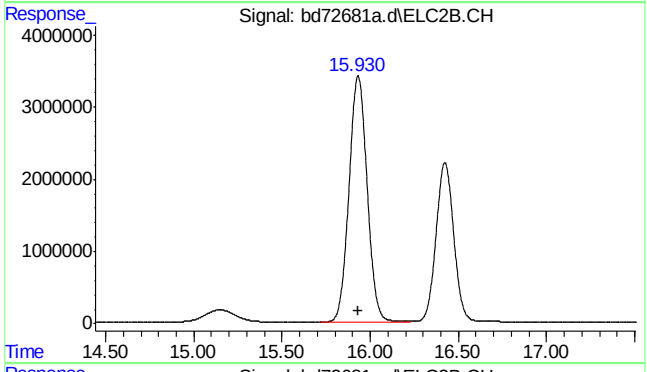
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 235968786
Conc: 568.42 ppb m



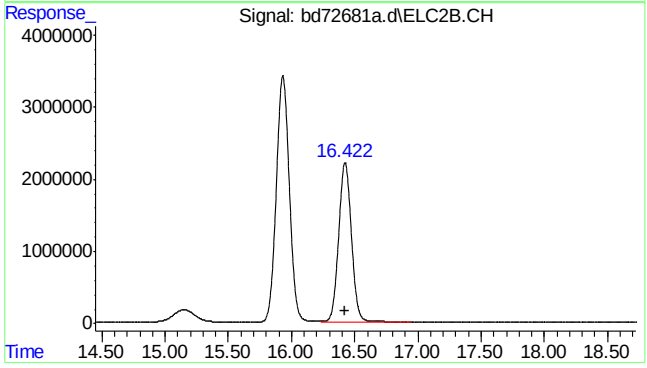
#23 mtbe #2

R.T.: 10.676 min
Delta R.T.: -0.020 min
Response: 72995113
Conc: 462.75 ppb



#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 243796320
Conc: 505.10 ppb



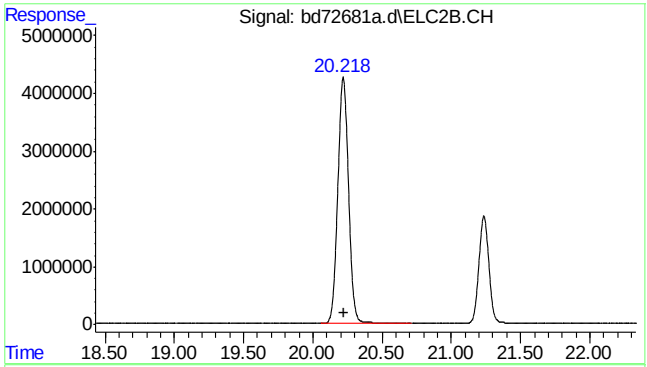
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 154535173
Conc: 444.00 ppb

7.5.11

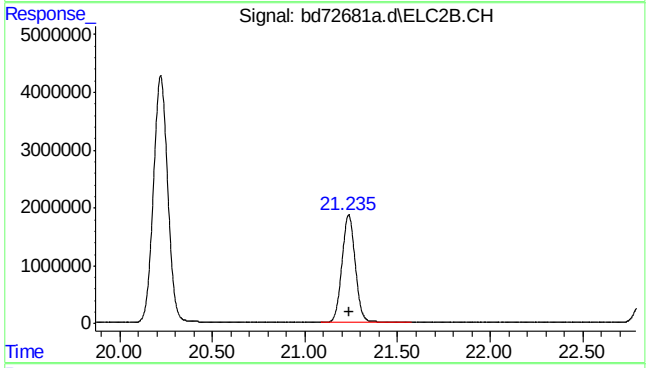
7

SGS ACCUTEST MC45969



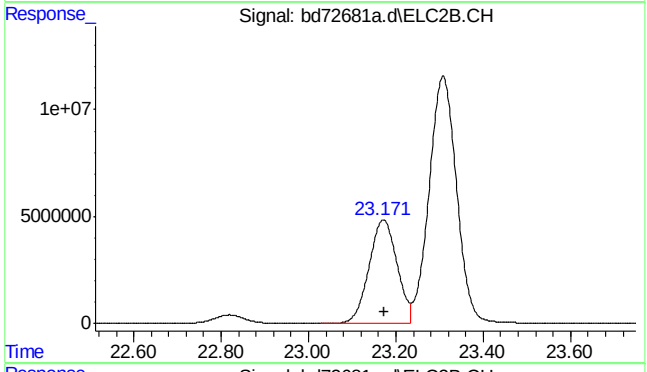
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 229409498
Conc: 509.30 ppb



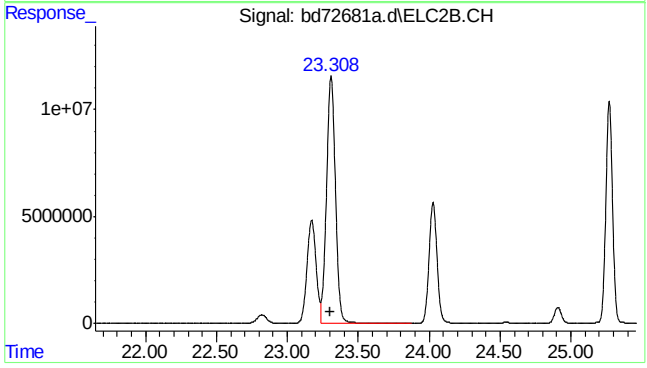
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 93431261
Conc: 469.97 ppb



#28 ethylbenzene #2

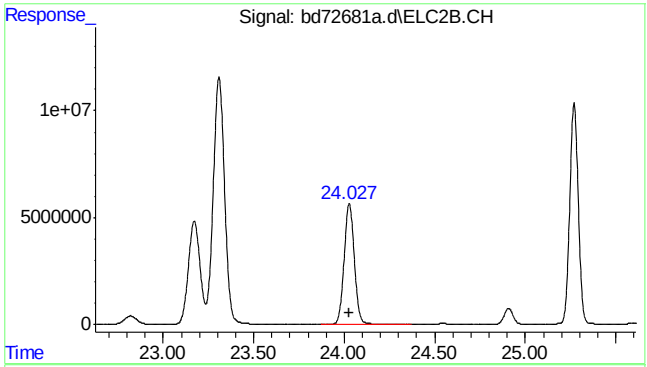
R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 214894088
Conc: 526.07 ppb



#29 m,p-xylene #2

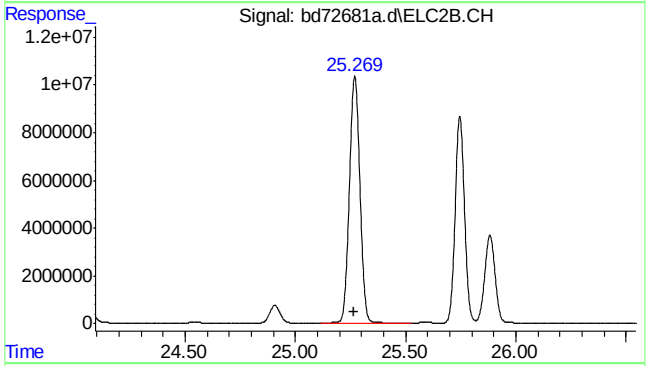
R.T.: 23.308 min
Delta R.T.: 0.001 min
Response: 505002305
Conc: 1019.37 ppb

SGS ACCUTEST MC45969



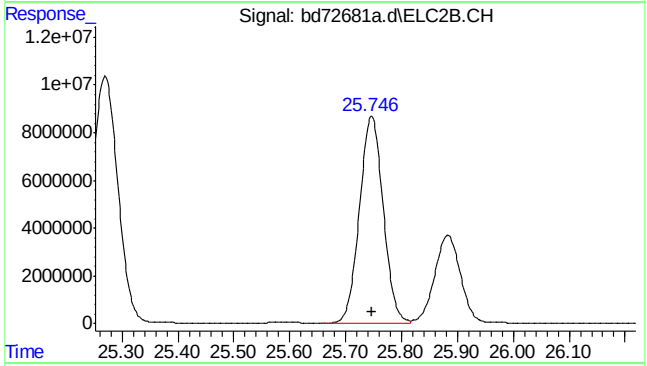
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 220290152
Conc: 511.04 ppb



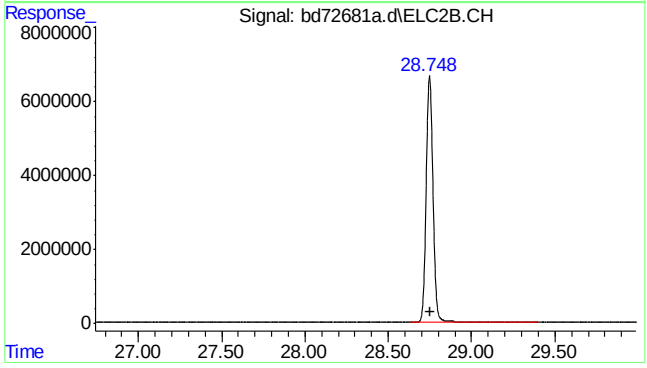
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 339709347
Conc: 507.27 ppb



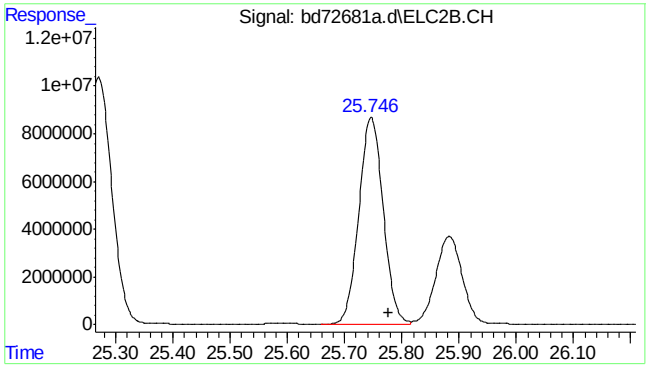
#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 256663102
Conc: 526.82 ppb



#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 191420125
Conc: 612.98 ppb m



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

```
      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response: 256536580
      Conc: 526.83 ppb m
```

7.5.11

7

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3574-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.424	152497733	212.995	ppb	
Spiked Amount 50.000		Recovery = 425.99%			
9) s 2,3,4-trifluorotoluene	21.236	112527515	205.563	ppb	
Spiked Amount 50.000		Recovery = 411.13%			
25) s fluorobenzene #2	16.423	80345593	227.934	ppb	
Spiked Amount 50.000		Recovery = 455.87%			
27) s 2,3,4-trifluorotoluen...	21.236	47736212	238.550	ppb	
Spiked Amount 50.000		Recovery = 477.10%			
Target Compounds					
1) h rt5.5-7	7.470	149066038	254.483	ppb	m
2) h rt7/10	9.920	173228736	254.409	ppb	m
3) mtbe	10.678	84104242	285.923	ppb	
4) h rt10/13	15.200	140035220	196.306	ppb	m
5) benzene	15.931	191470179	243.953	ppb	
8) toluene	20.220	185707723	237.863	ppb	
11) h rt20/25	22.840	158091359	178.378	ppb	m
13) ethylbenzene	23.172	190000309	239.278	ppb	
14) m,p-xylene	23.307	432876904	527.961	ppb	
15) o-xylene	24.029	200540345	237.621	ppb	
16) h decane	24.930	160400652	156.533	ppb	
17) t 1,3,5-trimethylbenzene	25.270	228714832	245.482	ppb	
18) 1,2,4-trimethylbenzene	25.747	227512016	259.035	ppb	
19) h butylcyclohexane	25.908	187694750	184.640	ppb	
20) naphthalene	28.749	124639753	310.645	ppb	m
23) mtbe #2	10.677f	40250861	256.049	ppb	
24) benzene #2	15.931	127028075	265.510	ppb	
26) toluene #2	20.220	118896684	266.435	ppb	
28) ethylbenzene #2	23.171	108390981	268.086	ppb	
29) m,p-xylene #2	23.307	257583489	523.422	ppb	
30) o-xylene #2	24.028	110009431	256.095	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	168355318	251.628	ppb	
32) 1,2,4-trimethylbenzen...	25.747	127084846	262.750	ppb	
33) naphthalene #2	28.749	101943811	343.988	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	127045219	262.812	ppb	m

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

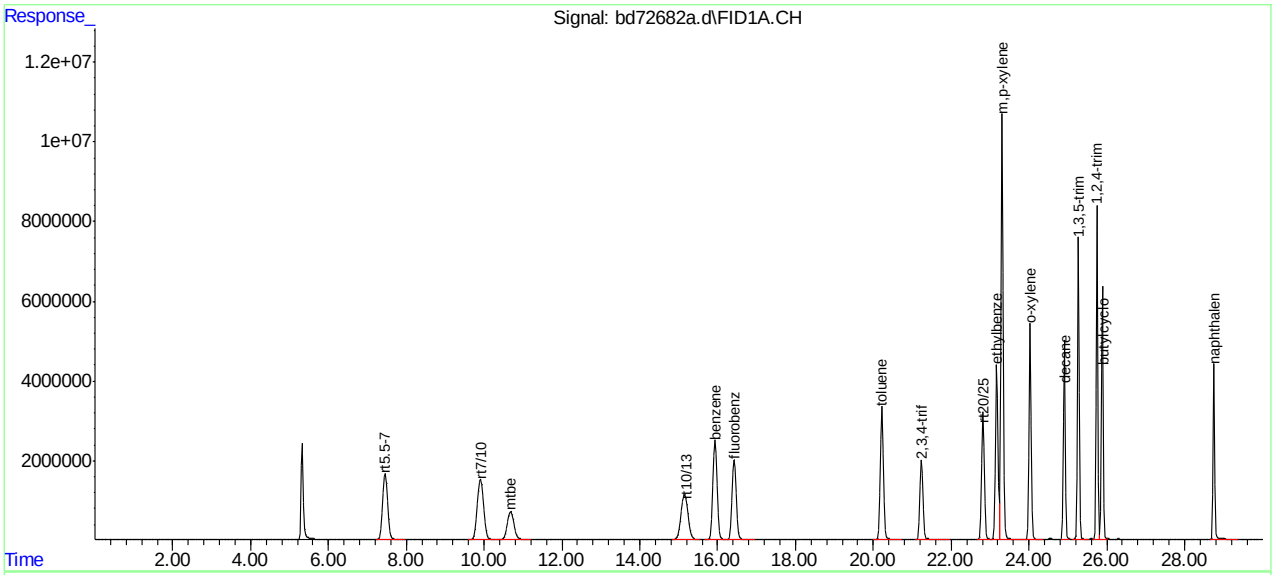
SGS ACCUTEST MC45969

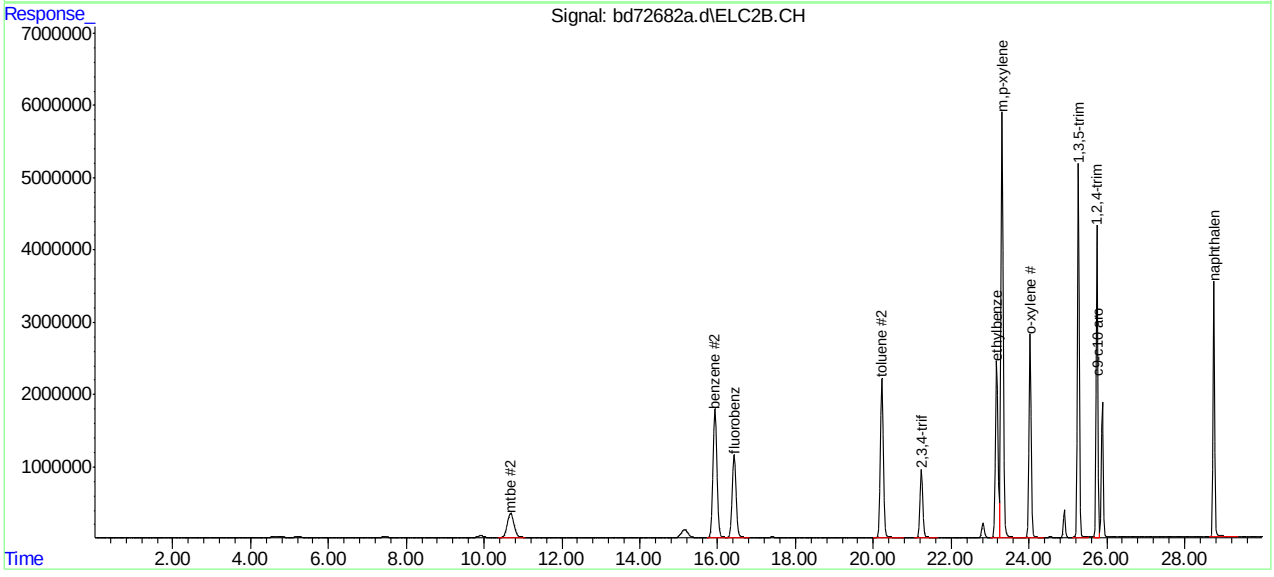
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3574-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

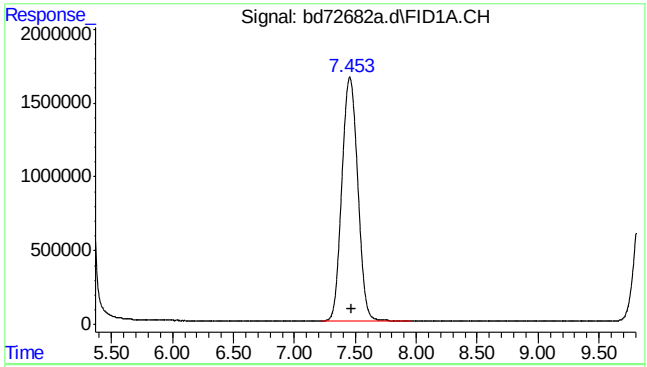
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



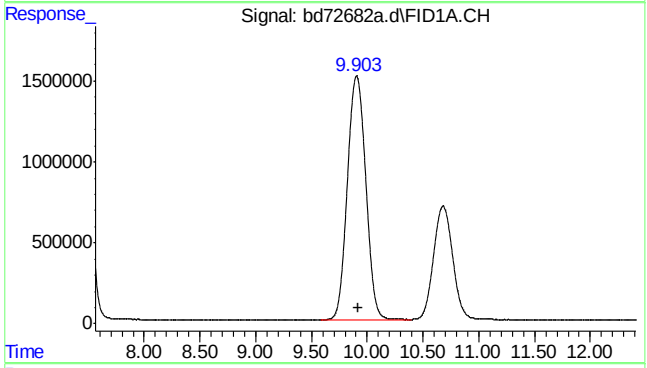


SGS ACCUTEST MC45969



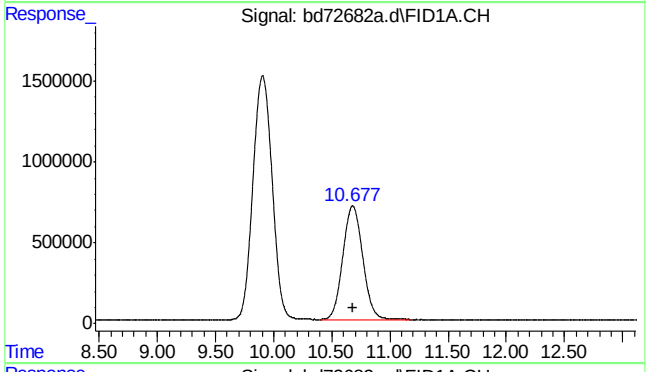
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 149066038
Conc: 254.48 ppb m



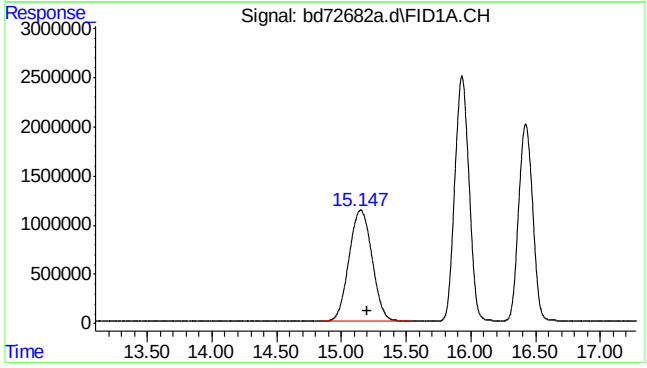
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 173228736
Conc: 254.41 ppb m



#3 mtbe

R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 84104242
Conc: 285.92 ppb



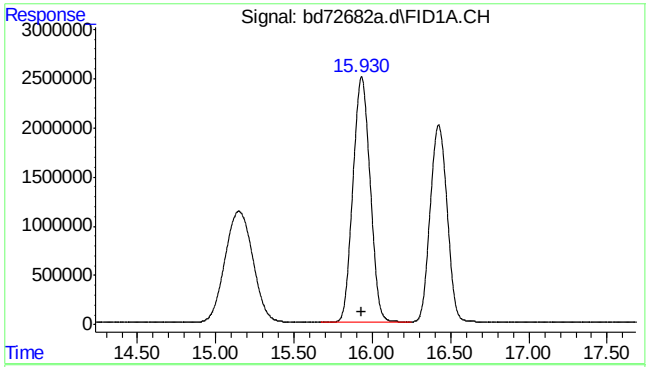
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 140035220
Conc: 196.31 ppb m

7.5.12

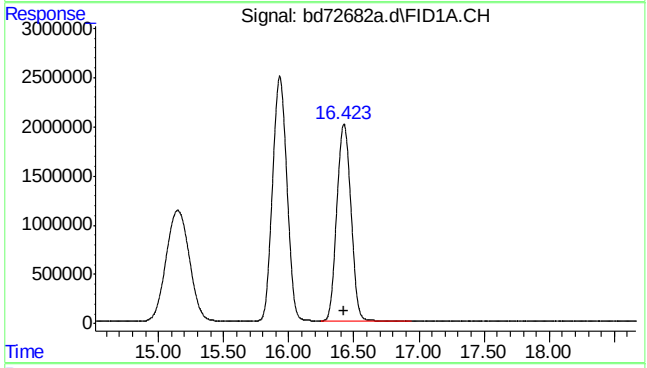
7

SGS ACCUTEST MC45969



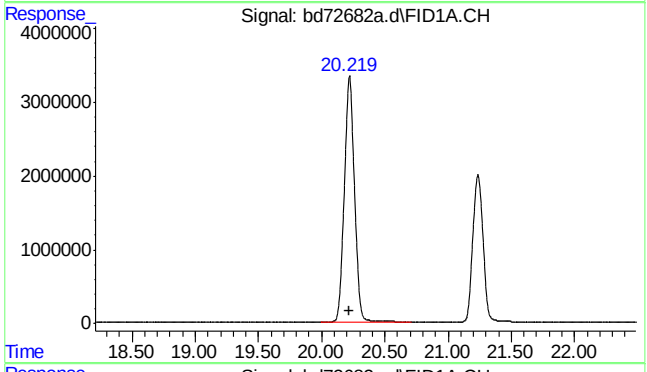
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 191470179
Conc: 243.95 ppb



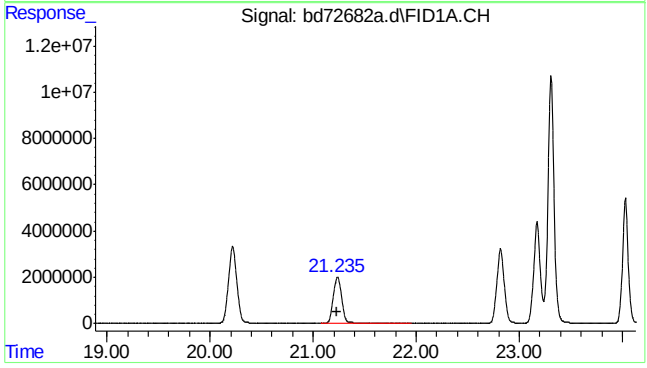
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 152497733
Conc: 212.99 ppb



#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 185707723
Conc: 237.86 ppb



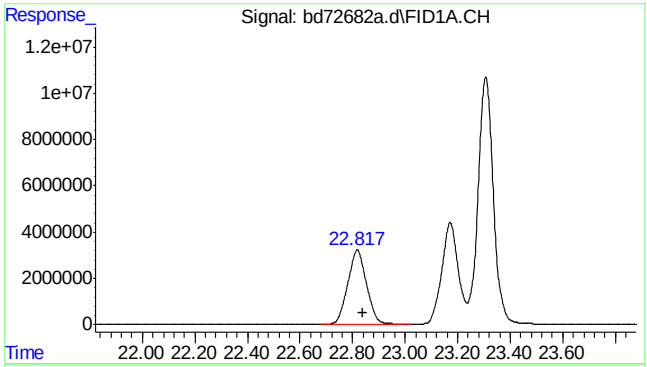
#9 2,3,4-trifluorotoluene

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 112527515
Conc: 205.56 ppb

7.5.12

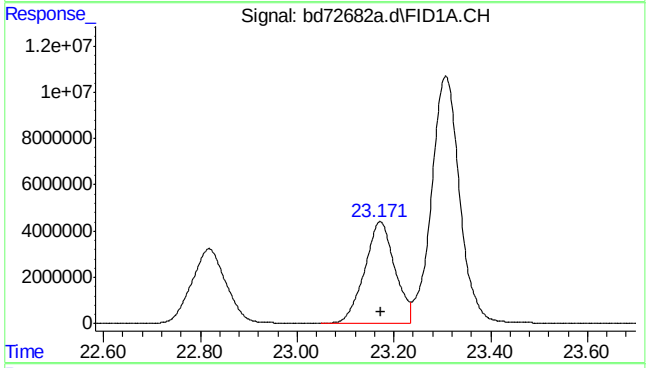
7

SGS ACCUTEST MC45969



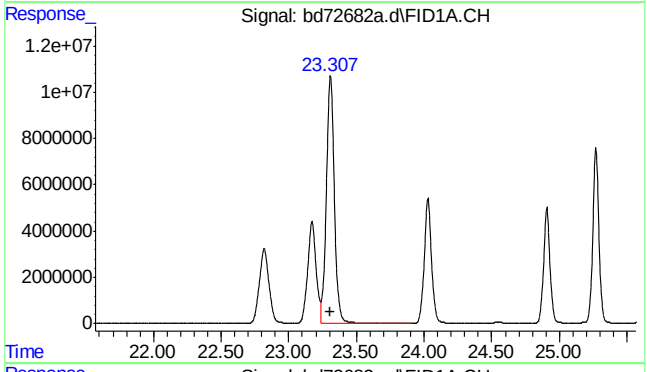
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 158091359
Conc: 178.38 ppb m



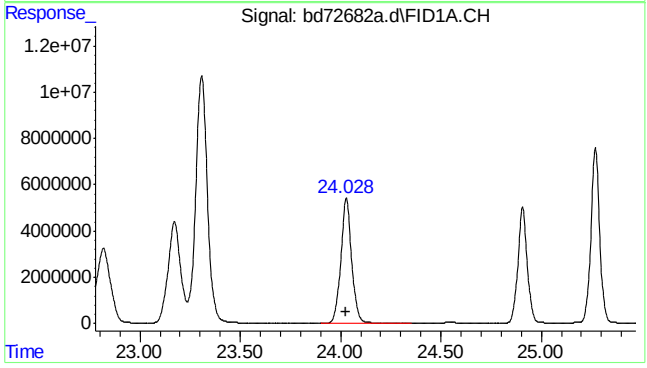
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 190000309
Conc: 239.28 ppb



#14 m,p-xylene

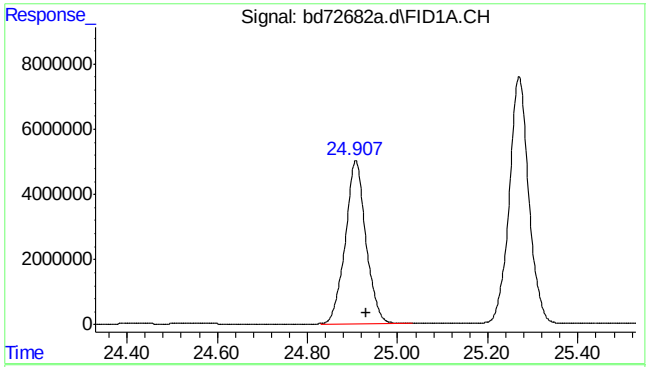
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 432876904
Conc: 527.96 ppb



#15 o-xylene

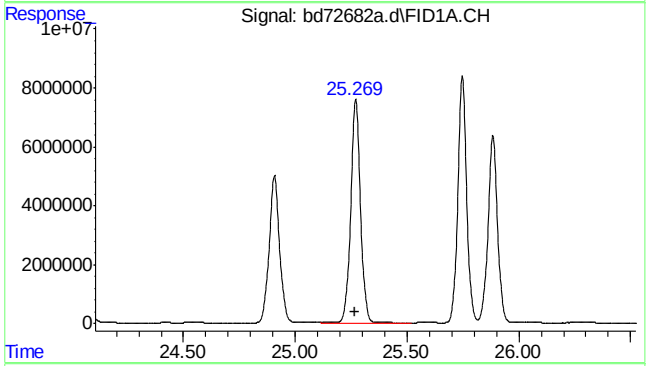
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 200540345
Conc: 237.62 ppb

SGS ACCUTEST MC45969



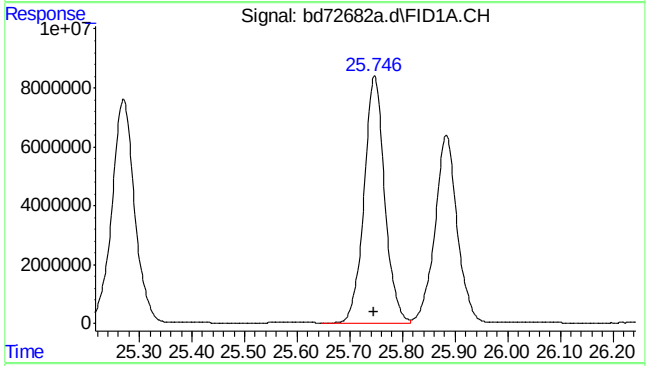
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 160400652
Conc: 156.53 ppb



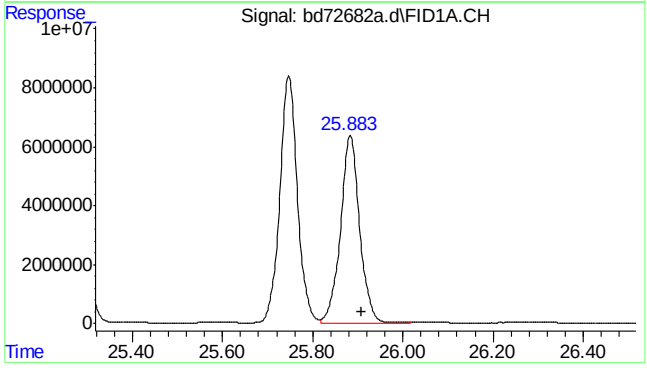
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 228714832
Conc: 245.48 ppb



#18 1,2,4-trimethylbenzene

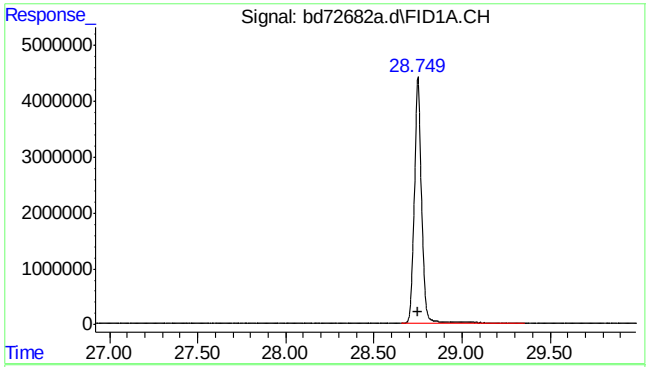
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 227512016
Conc: 259.04 ppb



#19 butylcyclohexane

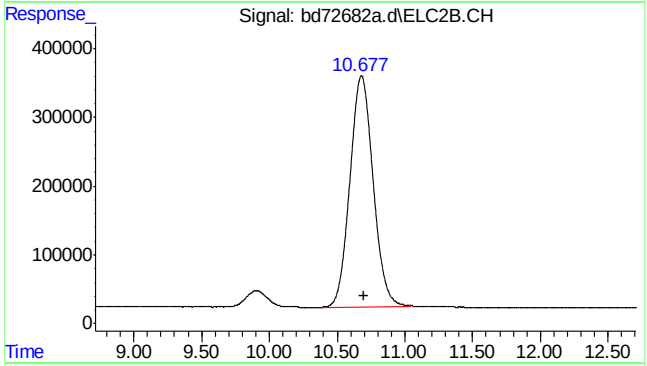
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 187694750
Conc: 184.64 ppb

SGS ACCUTEST MC45969



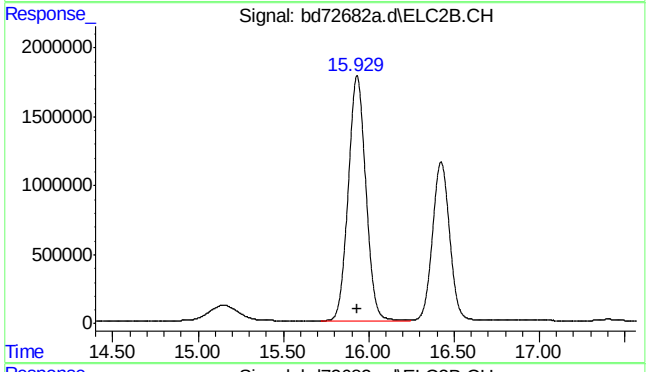
#20 naphthalene

R.T.: 28.749 min
Delta R.T.: -0.002 min
Response: 124639753
Conc: 310.64 ppb m



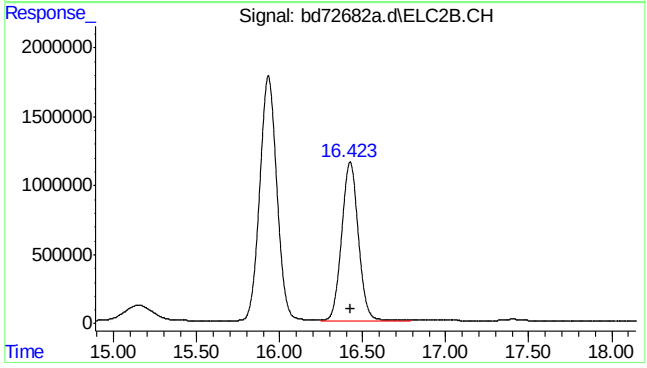
#23 mtbe #2

R.T.: 10.677 min
Delta R.T.: -0.019 min
Response: 40250861
Conc: 256.05 ppb



#24 benzene #2

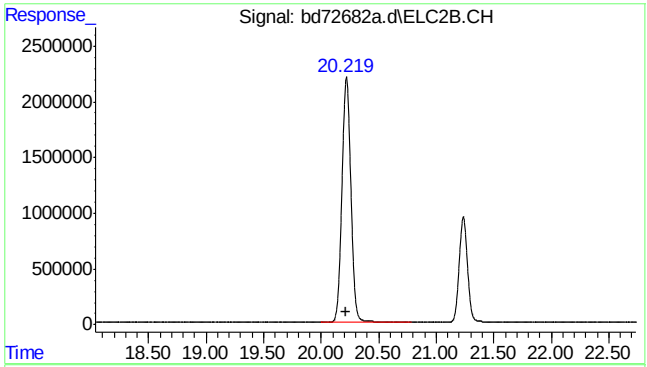
R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 127028075
Conc: 265.51 ppb



#25 fluorobenzene #2

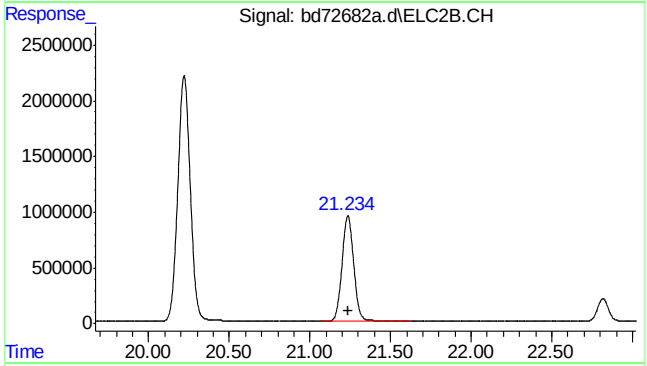
R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 80345593
Conc: 227.93 ppb

SGS ACCUTEST MC45969



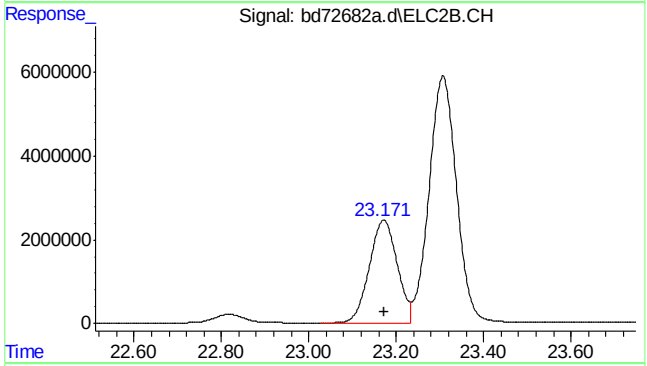
#26 toluene #2

R.T.: 20.220 min
Delta R.T.: -0.001 min
Response: 118896684
Conc: 266.44 ppb



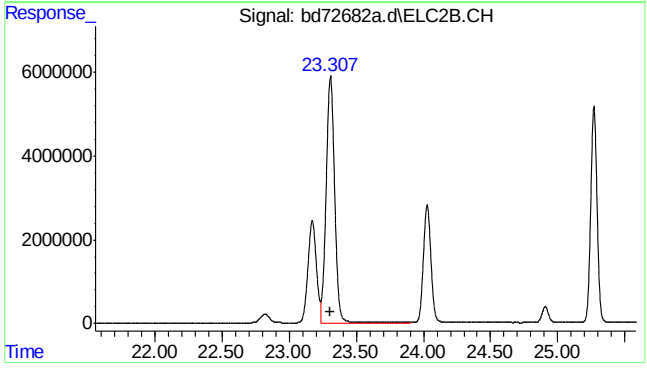
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 47736212
Conc: 238.55 ppb



#28 ethylbenzene #2

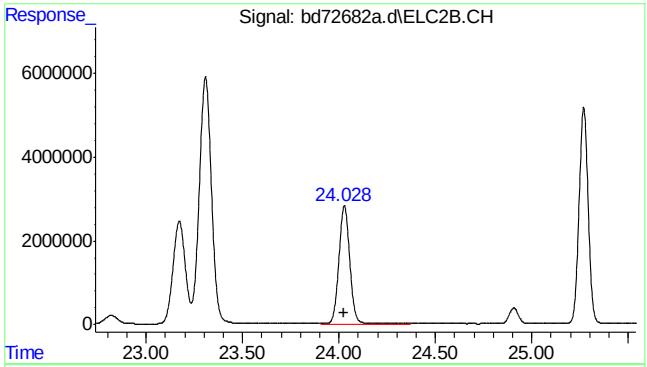
R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 108390981
Conc: 268.09 ppb



#29 m,p-xylene #2

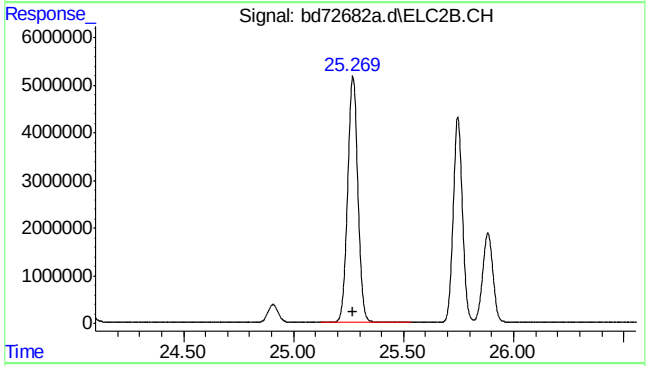
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 257583489
Conc: 523.42 ppb

SGS ACCUTEST MC45969



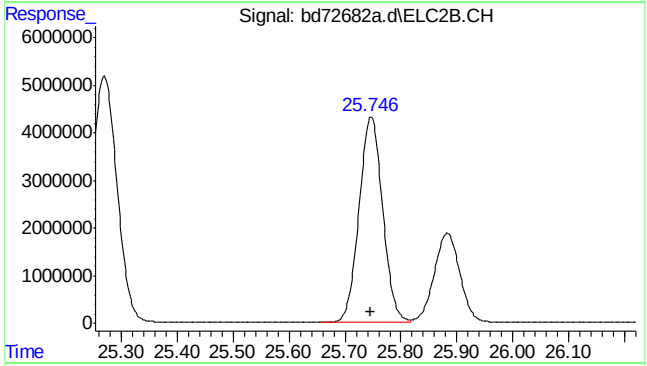
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 110009431
Conc: 256.10 ppb



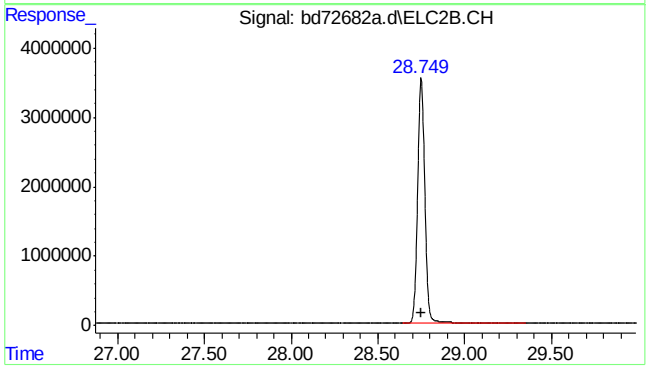
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 168355318
Conc: 251.63 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 127084846
Conc: 262.75 ppb



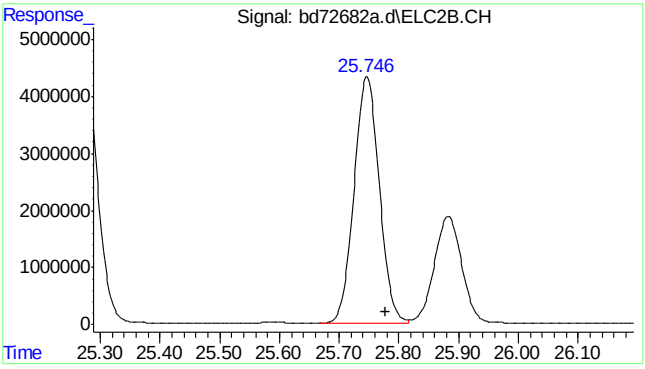
#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: -0.001 min
Response: 101943811
Conc: 343.99 ppb m

7.5.12

7

SGS ACCUTEST MC45969



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 127045219
Conc: 262.81 ppb m

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3574-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.423	70079072	97.467	ppb	
Spiked Amount 50.000		Recovery = 194.93%			
9) s 2,3,4-trifluorotoluene	21.235	54927490	100.409	ppb	
Spiked Amount 50.000		Recovery = 200.82%			
25) s fluorobenzene #2	16.423	32202770	89.804	ppb	
Spiked Amount 50.000		Recovery = 179.61%			
27) s 2,3,4-trifluorotoluen...	21.235	18910642	93.473	ppb	
Spiked Amount 50.000		Recovery = 186.95%			
Target Compounds					
1) h rt5.5-7	7.470	64982591	113.418	ppb	m
2) h rt7/10	9.920	74322538	111.188	ppb	m
3) mtbe	10.681	33800413	118.441	ppb	m
4) h rt10/13	15.200	67623819	93.821	ppb	m
5) benzene	15.931	87774837	114.545	ppb	
8) toluene	20.219	84423859	109.922	ppb	
11) h rt20/25	22.840	74314298	81.227	ppb	m
13) ethylbenzene	23.170	81550653	103.259	ppb	
14) m,p-xylene	23.306	152799260	183.855	ppb	
15) o-xylene	24.027	82145326	96.818	ppb	
16) h decane	24.930	68348944	62.536	ppb	
17) t 1,3,5-trimethylbenzene	25.269	84145233	88.598	ppb	
18) 1,2,4-trimethylbenzene	25.746	81329260	91.247	ppb	
19) h butylcyclohexane	25.908	73745152	68.769	ppb	
20) naphthalene	28.748	53350849	142.355	ppb	m
23) mtbe #2	10.682	16670409	107.344	ppb	m
24) benzene #2	15.930	50557437	106.886	ppb	
26) toluene #2	20.219	47109892	106.757	ppb	
28) ethylbenzene #2	23.170	42468306	106.107	ppb	
29) m,p-xylene #2	23.305	102263487	209.439	ppb	
30) o-xylene #2	24.027	43129270	100.483	ppb	
31) t 1,3,5-trimethylbenzen...	25.268	65671528	97.793	ppb	
32) 1,2,4-trimethylbenzen...	25.746	49399372	102.572	ppb	
33) naphthalene #2	28.748	41651706	152.947	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	49381850	102.596	ppb	m

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

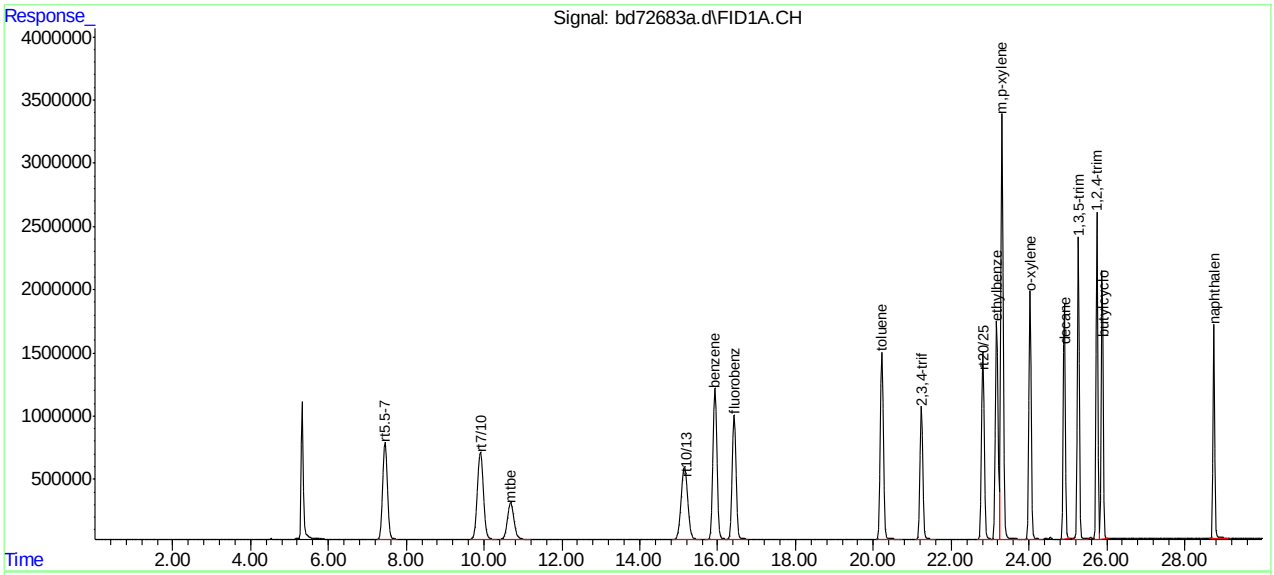
SGS ACCUTEST MC45969

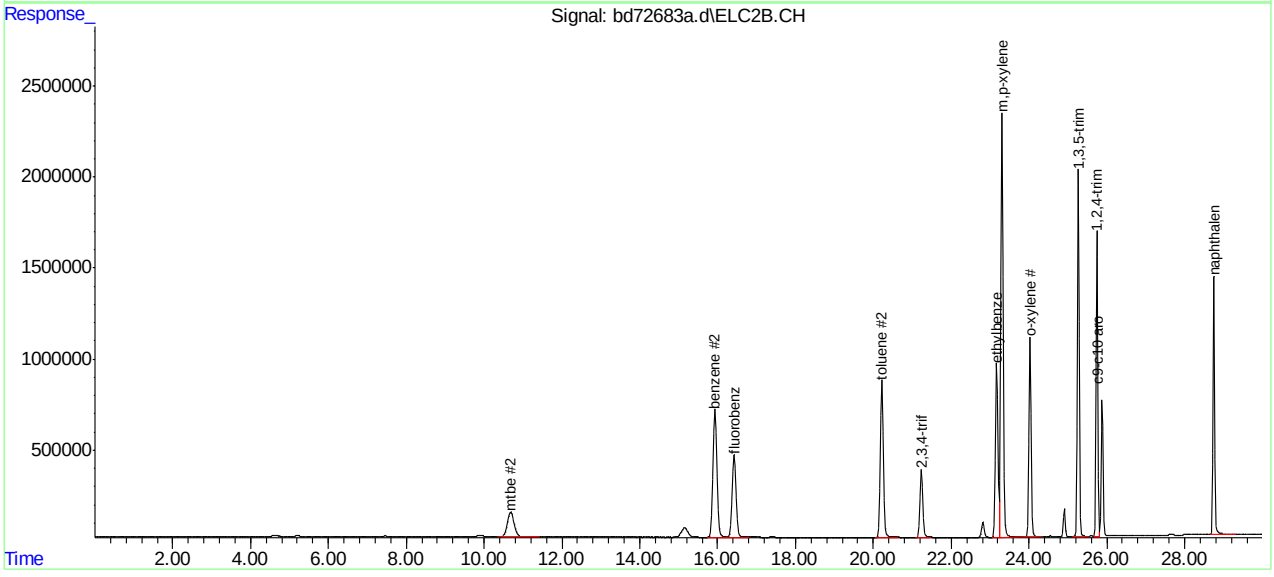
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3574-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

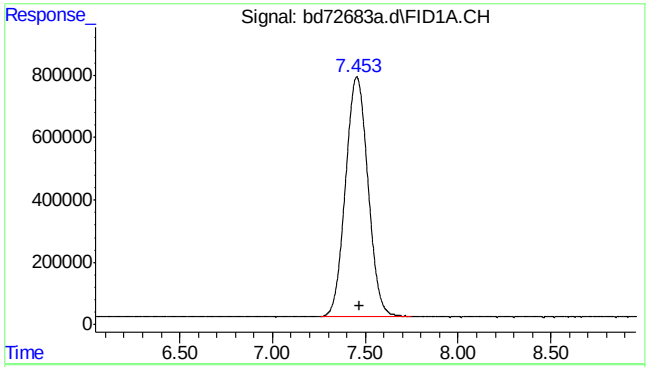
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



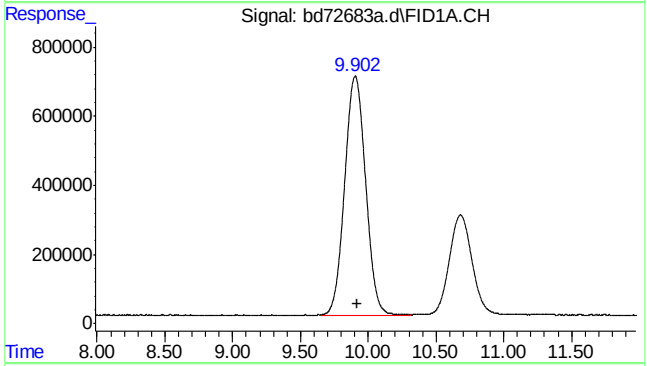


SGS ACCUTEST MC45969



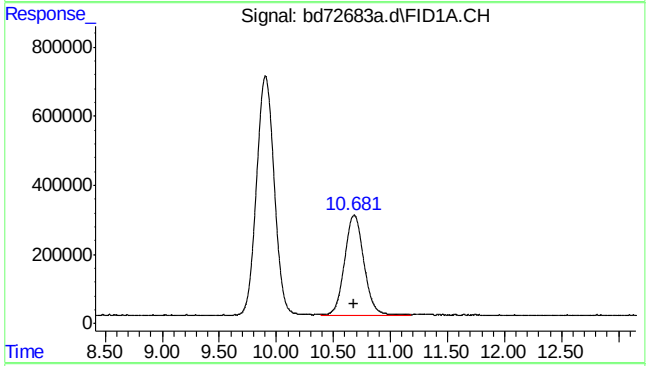
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 64982591
Conc: 113.42 ppb m



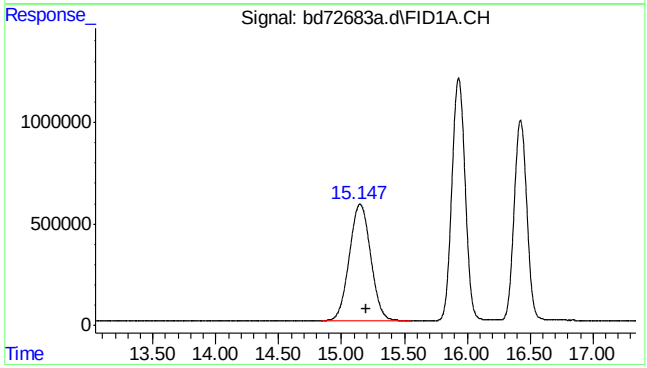
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 74322538
Conc: 111.19 ppb m



#3 mtbe

R.T.: 10.681 min
Delta R.T.: -0.002 min
Response: 33800413
Conc: 118.44 ppb m



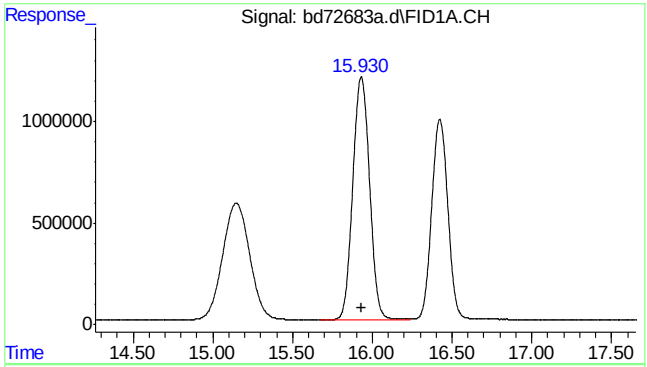
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 67623819
Conc: 93.82 ppb m

7.5.13

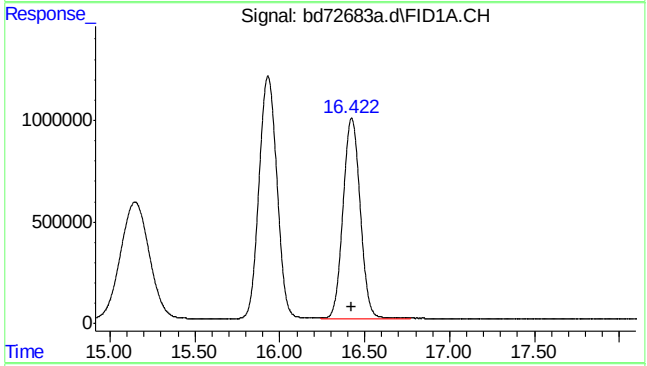
7

SGS ACCUTEST MC45969



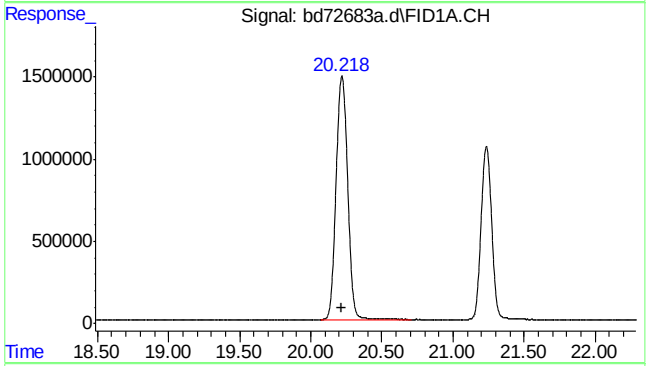
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 87774837
Conc: 114.55 ppb



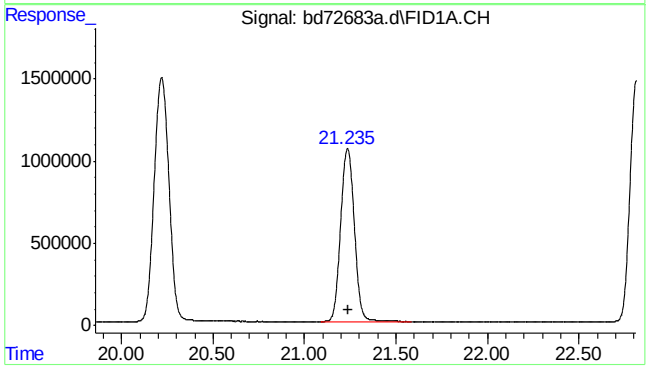
#6 fluorobenzene

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 70079072
Conc: 97.47 ppb



#8 toluene

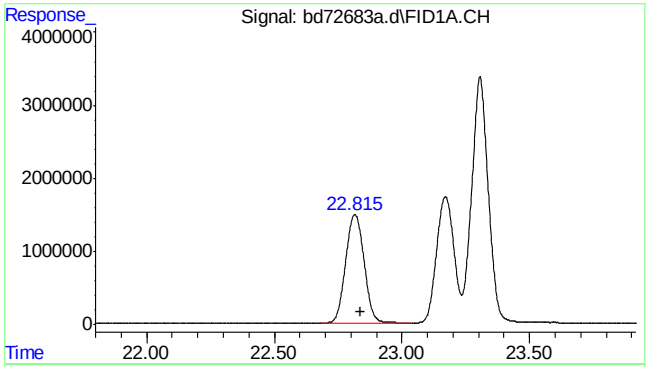
R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 84423859
Conc: 109.92 ppb



#9 2,3,4-trifluorotoluene

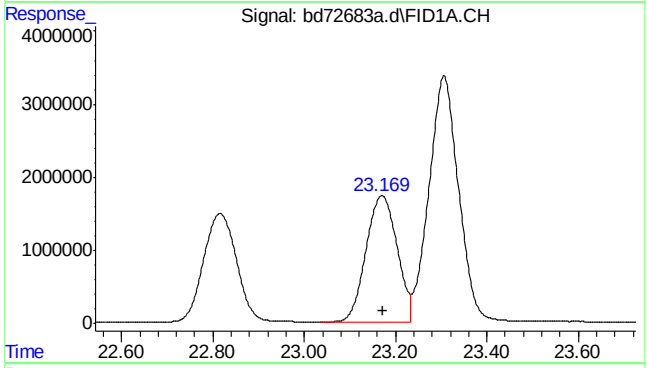
R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 54927490
Conc: 100.41 ppb

SGS ACCUTEST MC45969



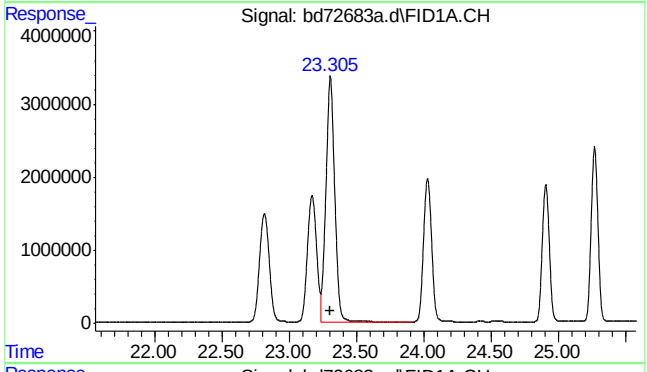
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 74314298
Conc: 81.23 ppb m



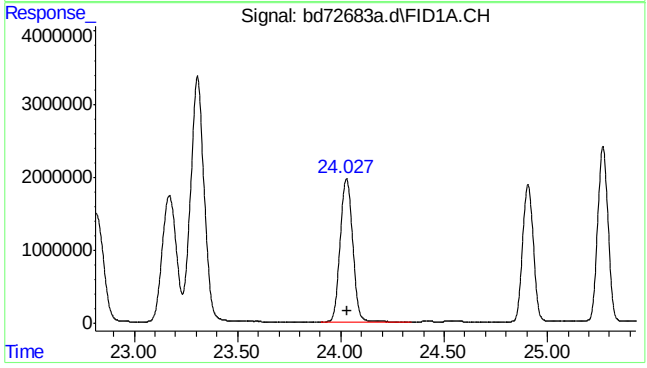
#13 ethylbenzene

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 81550653
Conc: 103.26 ppb



#14 m,p-xylene

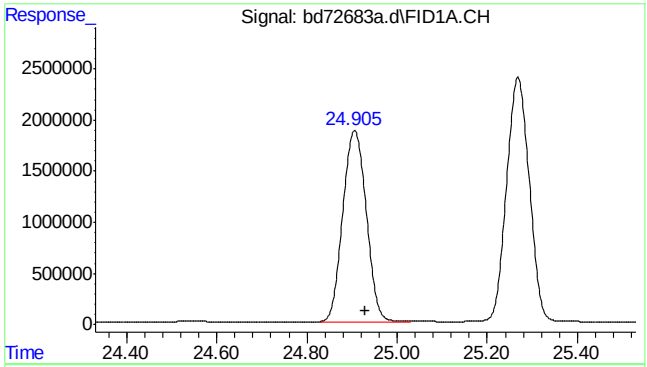
R.T.: 23.306 min
Delta R.T.: -0.001 min
Response: 152799260
Conc: 183.86 ppb



#15 o-xylene

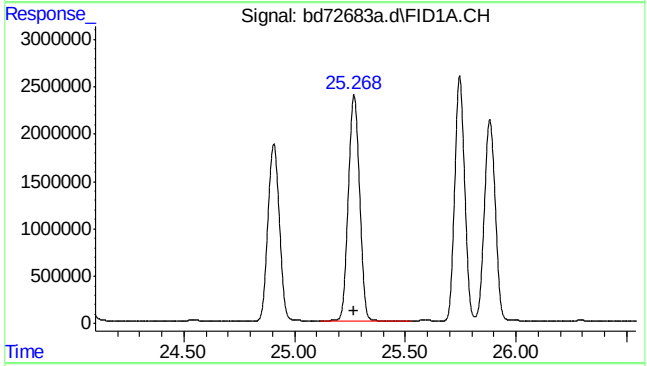
R.T.: 24.027 min
Delta R.T.: -0.002 min
Response: 82145326
Conc: 96.82 ppb

SGS ACCUTEST MC45969



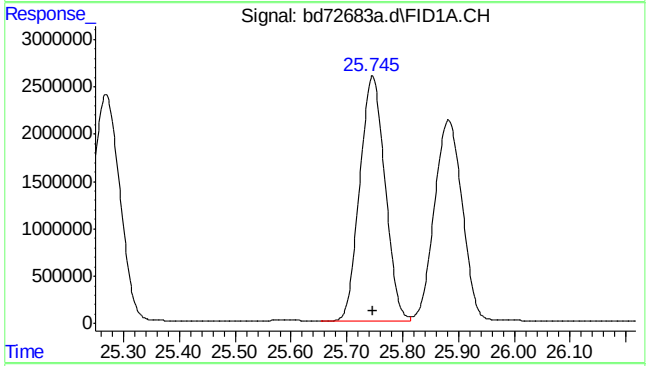
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 68348944
Conc: 62.54 ppb



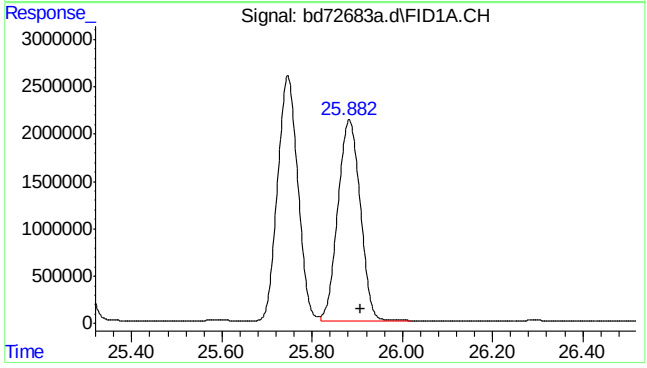
#17 1,3,5-trimethylbenzene

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 84145233
Conc: 88.60 ppb



#18 1,2,4-trimethylbenzene

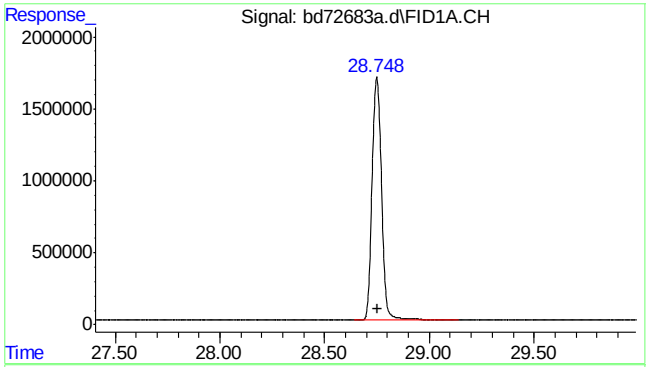
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 81329260
Conc: 91.25 ppb



#19 butylcyclohexane

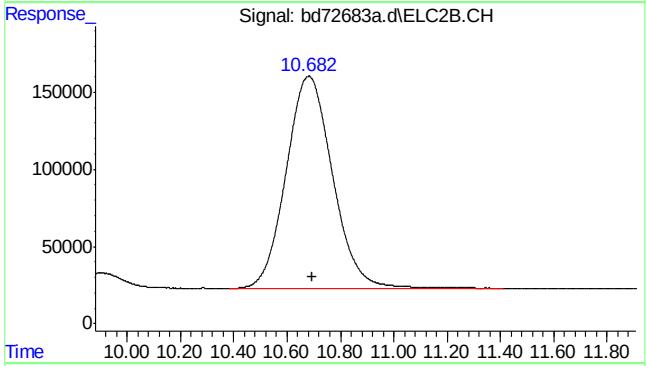
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 73745152
Conc: 68.77 ppb

SGS ACCUTEST MC45969



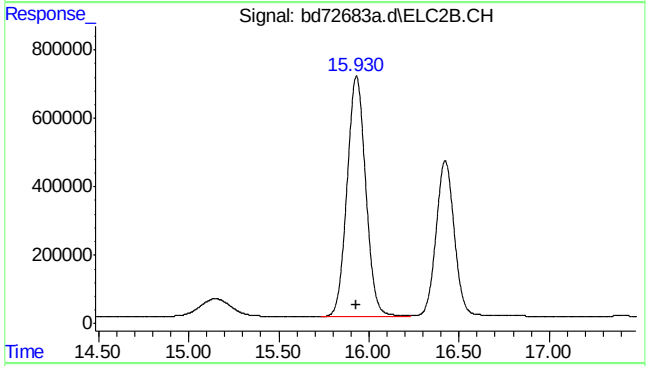
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 53350849
Conc: 142.35 ppb m



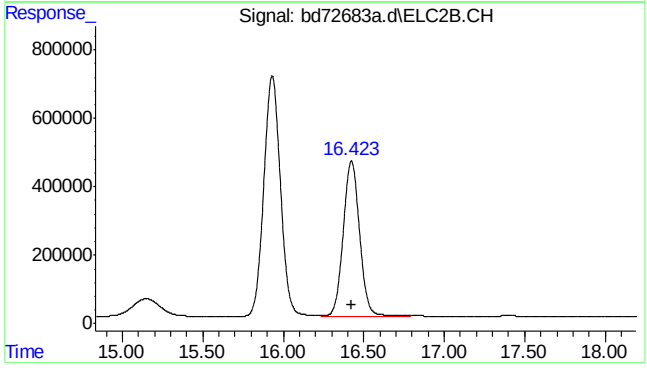
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 16670409
Conc: 107.34 ppb m



#24 benzene #2

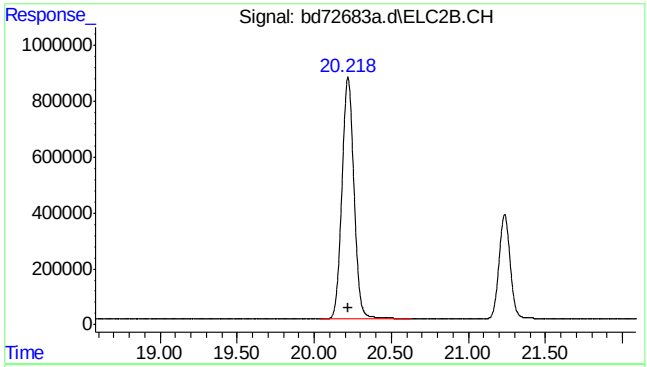
R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 50557437
Conc: 106.89 ppb



#25 fluorobenzene #2

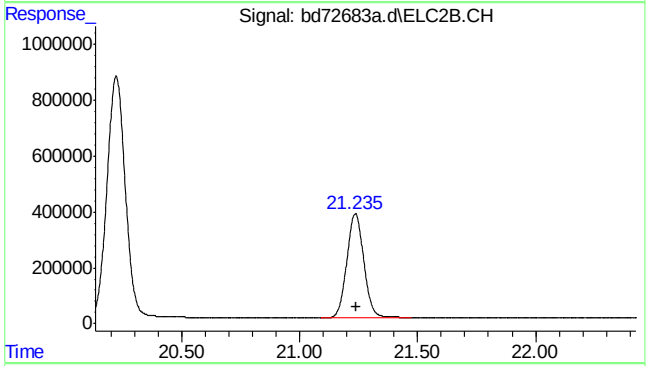
R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 32202770
Conc: 89.80 ppb

SGS ACCUTEST MC45969



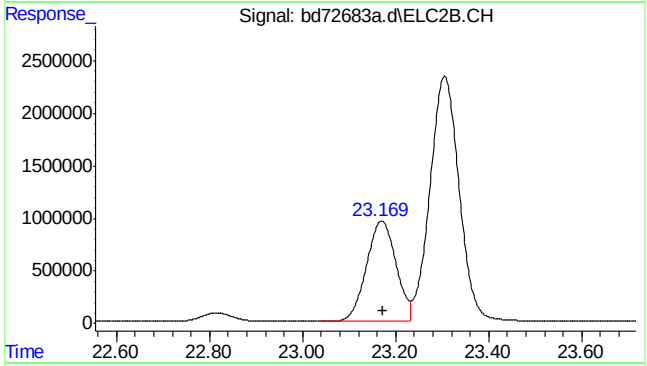
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 47109892
Conc: 106.76 ppb



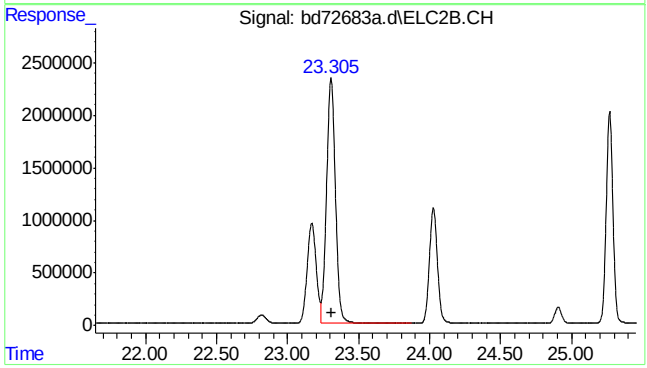
#27 2,3,4-trifluorotoluene #2

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 18910642
Conc: 93.47 ppb



#28 ethylbenzene #2

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 42468306
Conc: 106.11 ppb



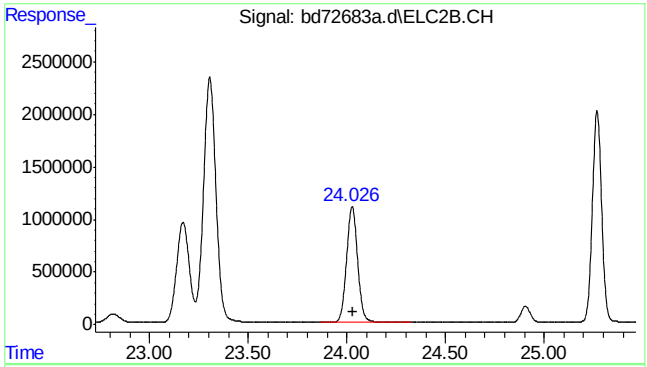
#29 m,p-xylene #2

R.T.: 23.305 min
Delta R.T.: -0.002 min
Response: 102263487
Conc: 209.44 ppb

7.5.13

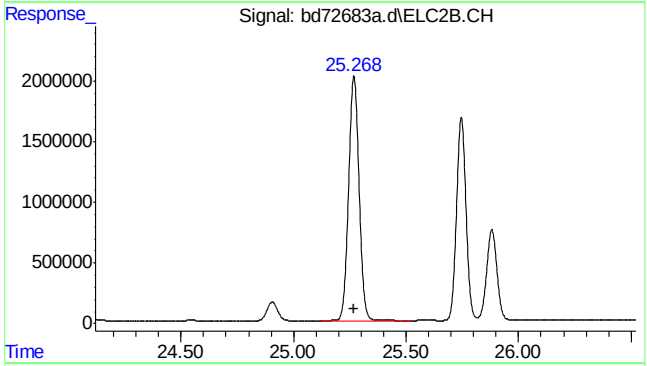
7

SGS ACCUTEST MC45969



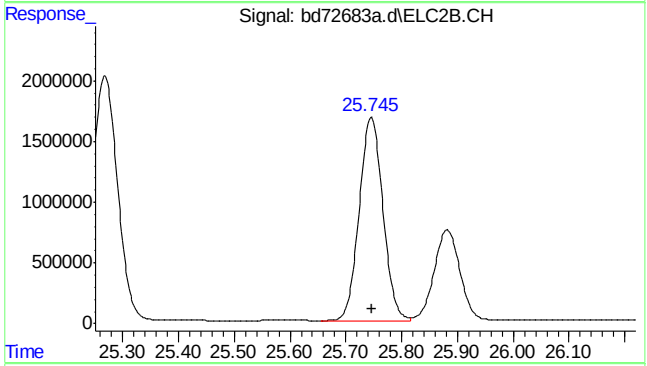
#30 o-xylene #2

R.T.: 24.027 min
Delta R.T.: -0.001 min
Response: 43129270
Conc: 100.48 ppb



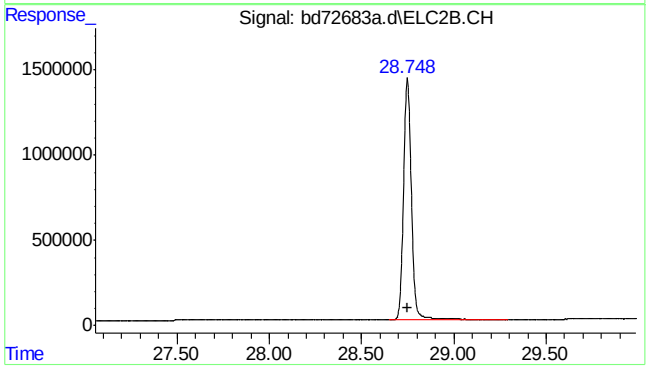
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 65671528
Conc: 97.79 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 49399372
Conc: 102.57 ppb



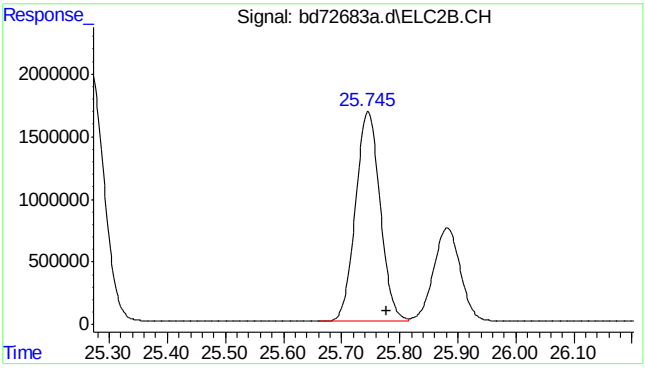
#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 41651706
Conc: 152.95 ppb m

7.5.13

7

SGS ACCUTEST MC45969



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 49381850
Conc: 102.60 ppb m

7.5.13

7

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3574-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.425	34075445	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	21.237	26970091	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
25) s fluorobenzene #2	16.425	15383703	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	21.237	9070743	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	7.470	30143416	49.971	ppb	m
2) h rt7/10	9.920	34807733	50.015	ppb	m
3) mtbe	10.687	15460558	50.361	ppb	
4) h rt10/13	15.200	33383300	50.012	ppb	m
5) benzene	15.932	42982873	50.000	ppb	
8) toluene	20.221	42756685	50.000	ppb	
11) h rt20/25	22.840	38654222	50.046	ppb	m
13) ethylbenzene	23.172	42355999	50.000	ppb	
14) m,p-xylene	23.307	80812232	100.000	ppb	
15) o-xylene	24.029	43434654	50.000	ppb	
16) h decane	24.930	37965661	50.001	ppb	m
17) t 1,3,5-trimethylbenzene	25.270	45635368	50.000	ppb	
18) 1,2,4-trimethylbenzene	25.747	44319474	50.000	ppb	
19) h butylcyclohexane	25.908	41267880	49.988	ppb	m
20) naphthalene	28.750	27290467	49.961	ppb	m
23) mtbe #2	10.688	7963229	50.116	ppb	m
24) benzene #2	15.931	24111272	50.000	ppb	
26) toluene #2	20.221	22561776	50.000	ppb	
28) ethylbenzene #2	23.171	20325119	50.000	ppb	
29) m,p-xylene #2	23.307	49291829	100.000	ppb	
30) o-xylene #2	24.028	20846761	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	25.269	31712590	50.000	ppb	
32) 1,2,4-trimethylbenzen...	25.746	23925194	50.000	ppb	
33) naphthalene #2	28.749	19084412	50.008	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	23927237	49.996	ppb	m

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

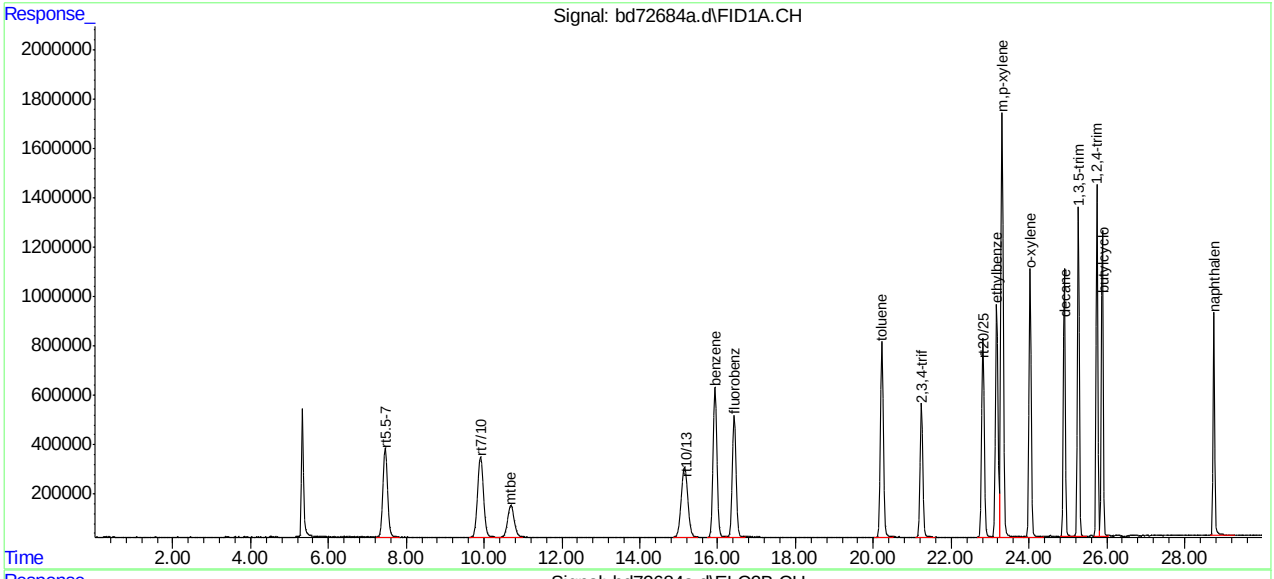
SGS ACCUTEST MC45969

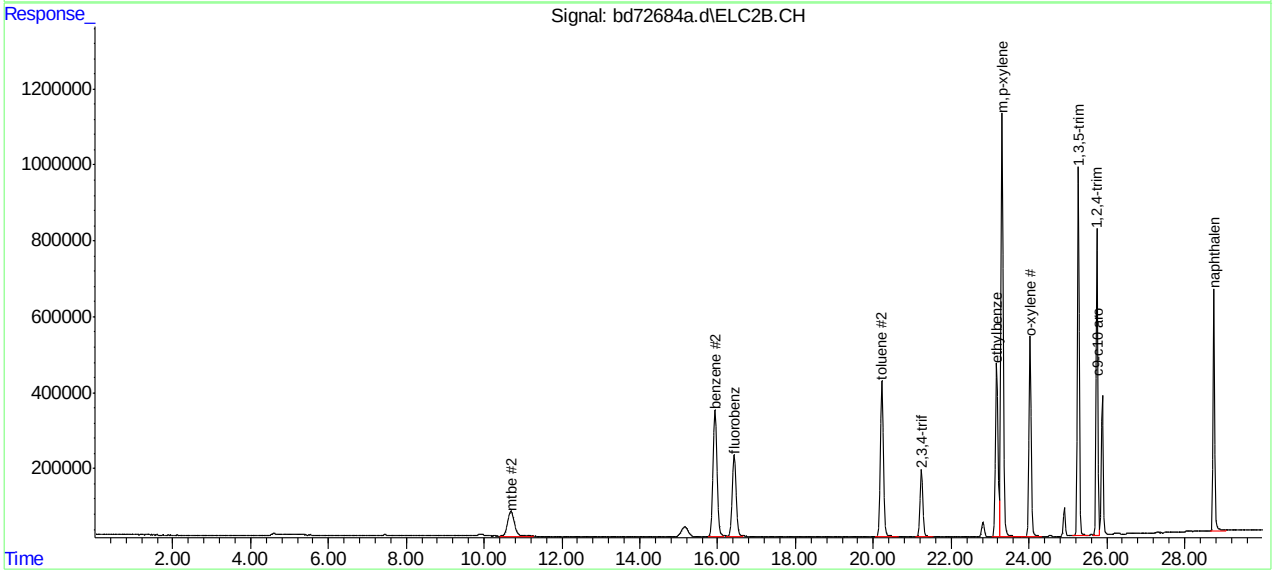
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3574-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

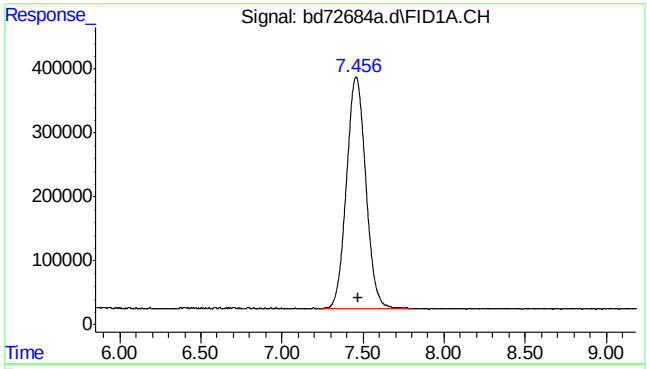
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



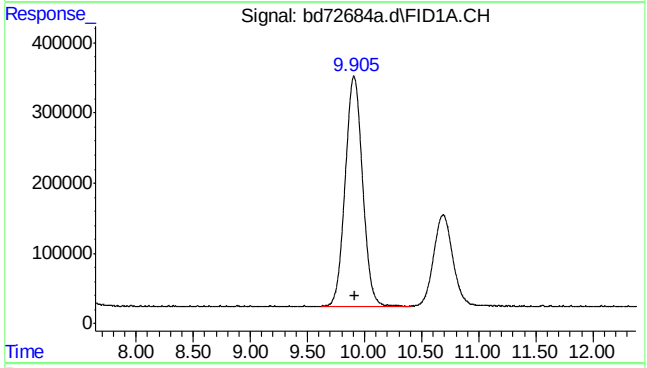


SGS ACCUTEST MC45969



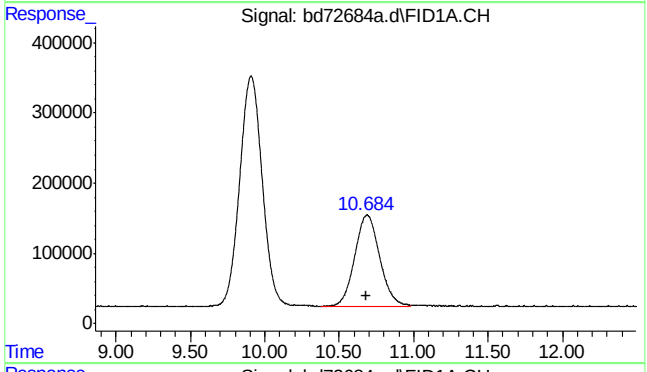
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 30143416
Conc: 49.97 ppb m



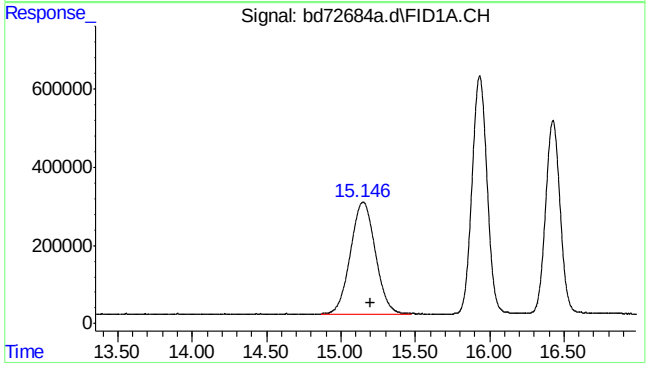
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 34807733
Conc: 50.01 ppb m



#3 mtbe

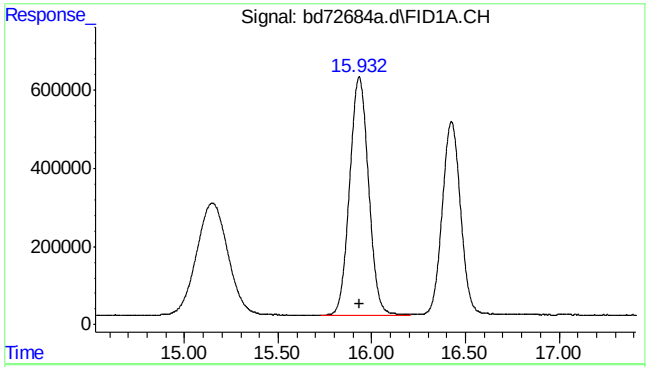
R.T.: 10.687 min
Delta R.T.: 0.003 min
Response: 15460558
Conc: 50.36 ppb



#4 rt10/13

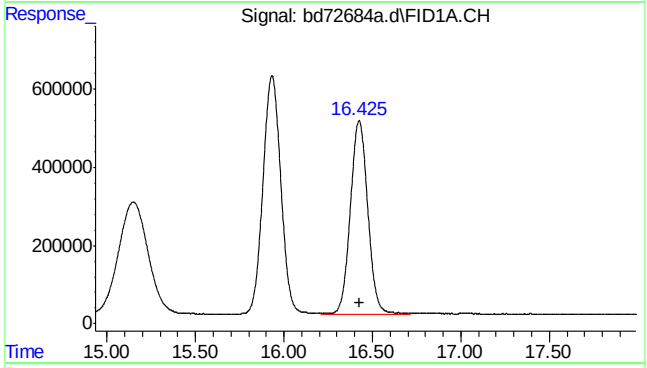
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 33383300
Conc: 50.01 ppb m

SGS ACCUTEST MC45969



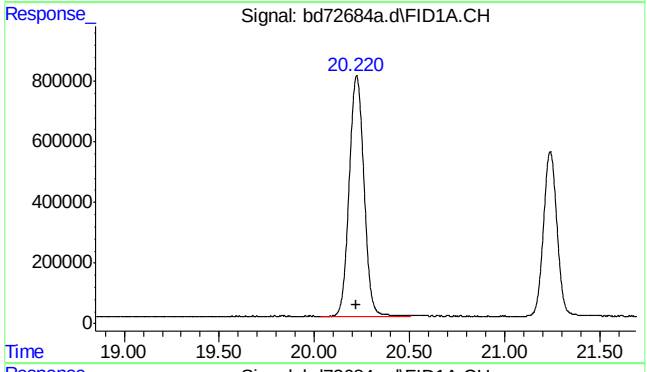
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 42982873
Conc: 50.00 ppb



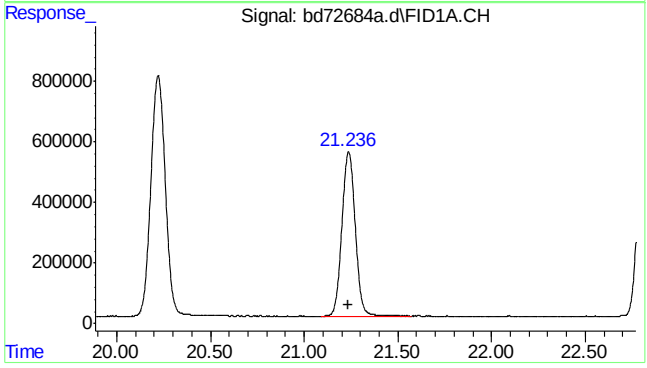
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 34075445
Conc: 50.00 ppb



#8 toluene

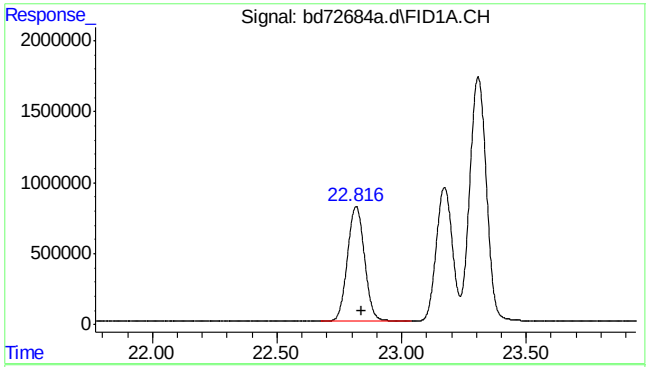
R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 42756685
Conc: 50.00 ppb



#9 2,3,4-trifluorotoluene

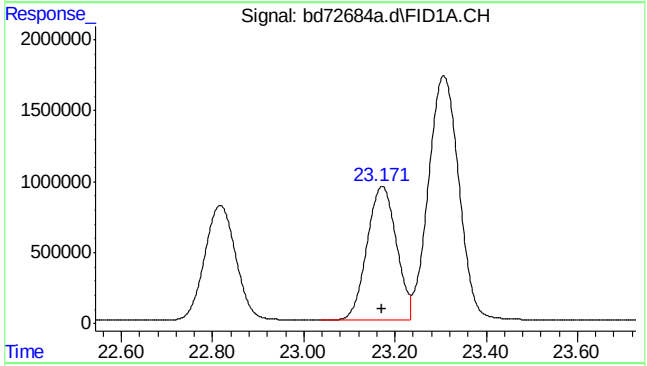
R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 26970091
Conc: 50.00 ppb

SGS ACCUTEST MC45969



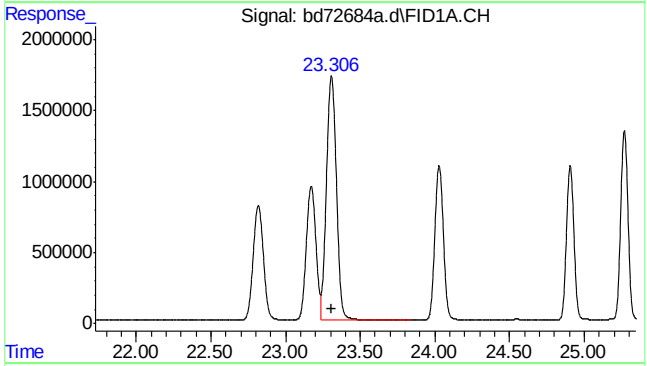
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38654222
Conc: 50.05 ppb m



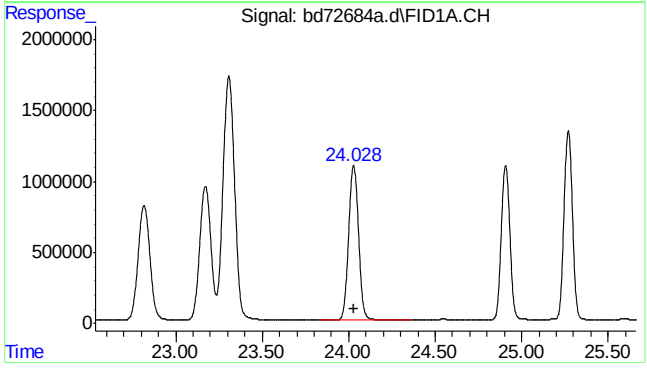
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 42355999
Conc: 50.00 ppb



#14 m,p-xylene

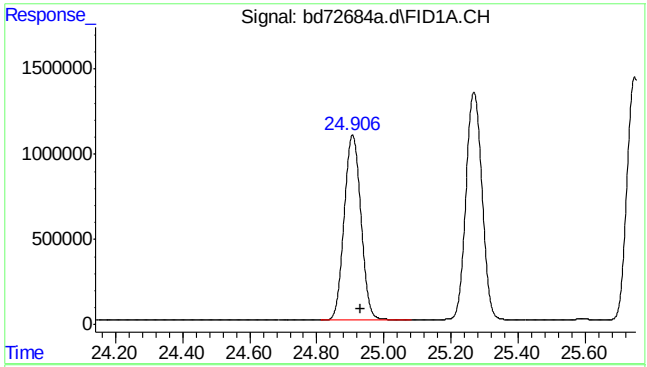
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 80812232
Conc: 100.00 ppb



#15 o-xylene

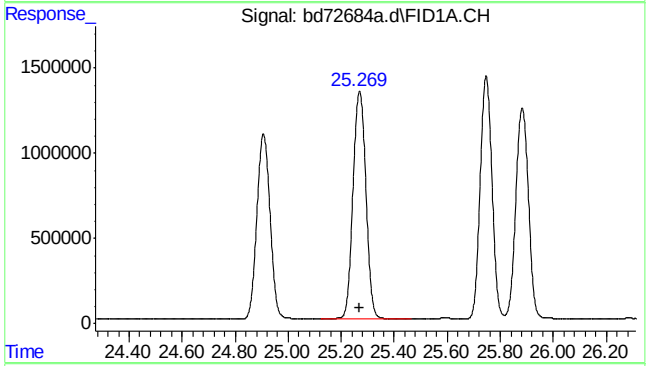
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 43434654
Conc: 50.00 ppb

SGS ACCUTEST MC45969



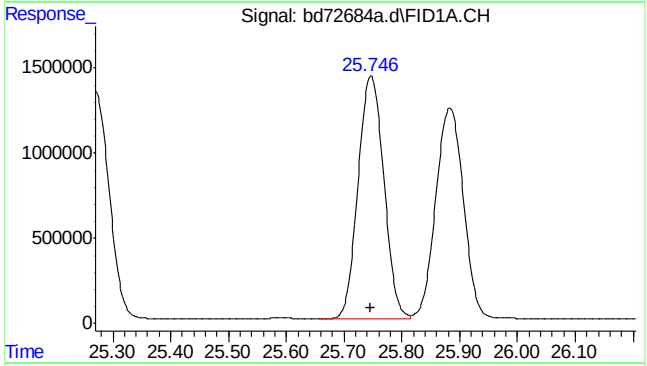
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37965661
Conc: 50.00 ppb m



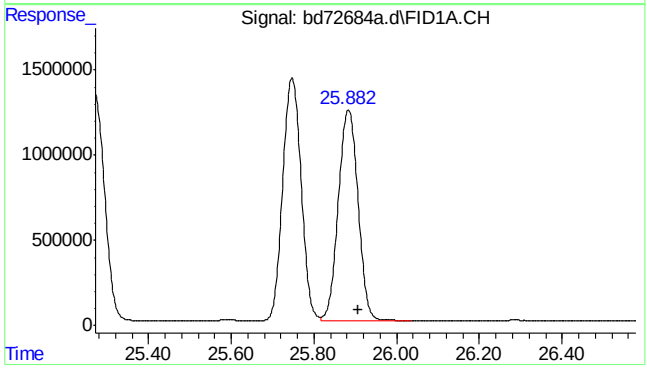
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 45635368
Conc: 50.00 ppb



#18 1,2,4-trimethylbenzene

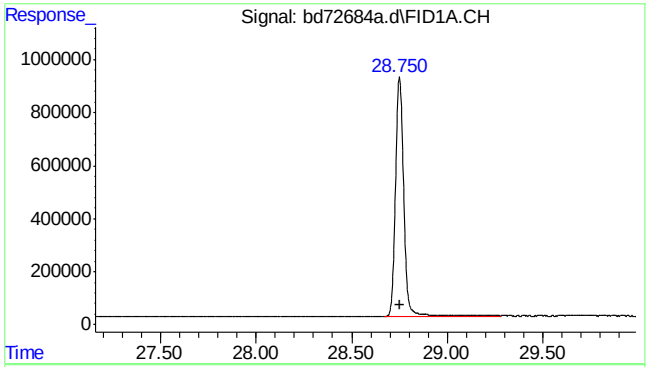
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 44319474
Conc: 50.00 ppb



#19 butylcyclohexane

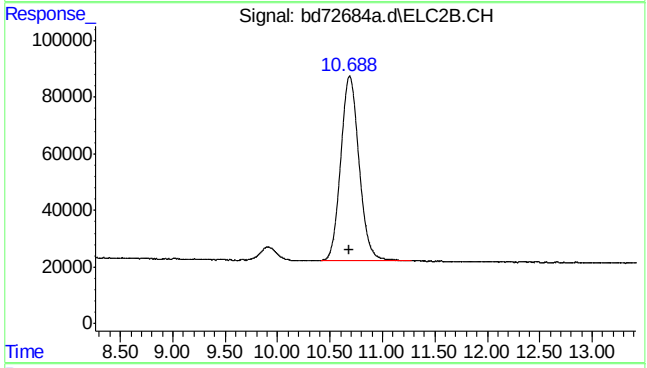
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41267880
Conc: 49.99 ppb m

SGS ACCUTEST MC45969



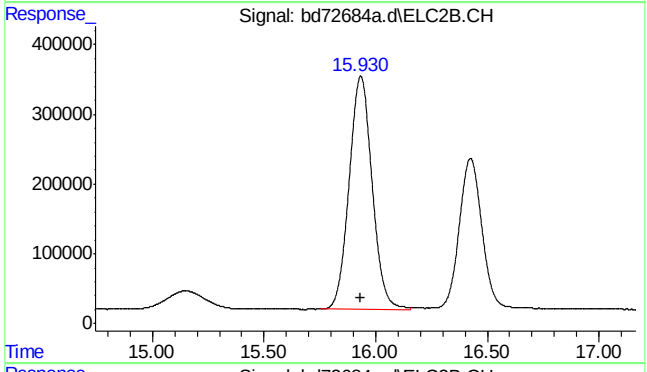
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 27290467
Conc: 49.96 ppb m



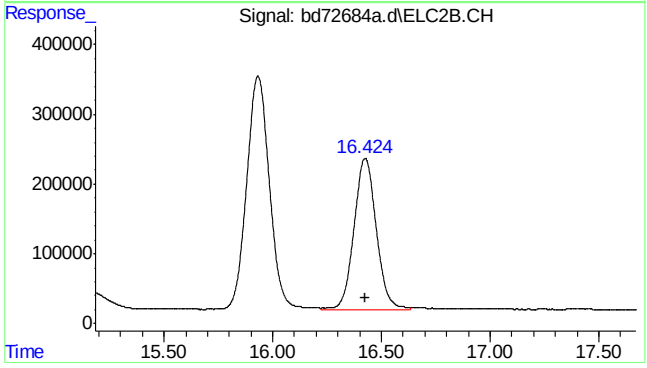
#23 mtbe #2

R.T.: 10.688 min
Delta R.T.: 0.000 min
Response: 7963229
Conc: 50.12 ppb m



#24 benzene #2

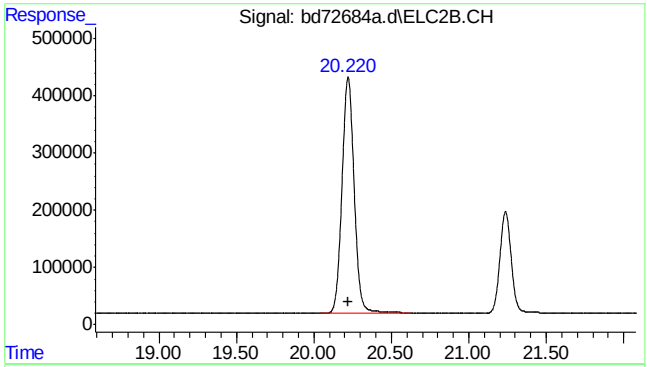
R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 24111272
Conc: 50.00 ppb



#25 fluorobenzene #2

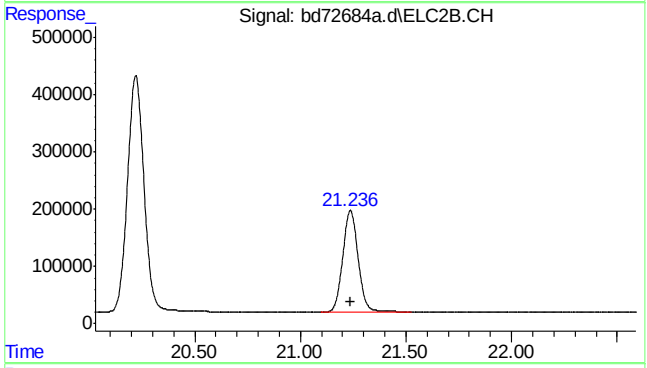
R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 15383703
Conc: 50.00 ppb

SGS ACCUTEST MC45969



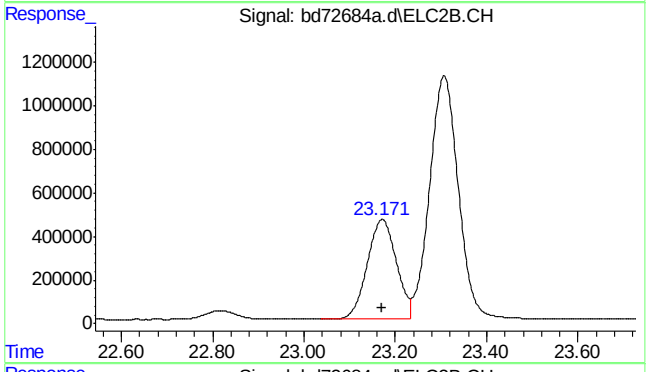
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 22561776
Conc: 50.00 ppb



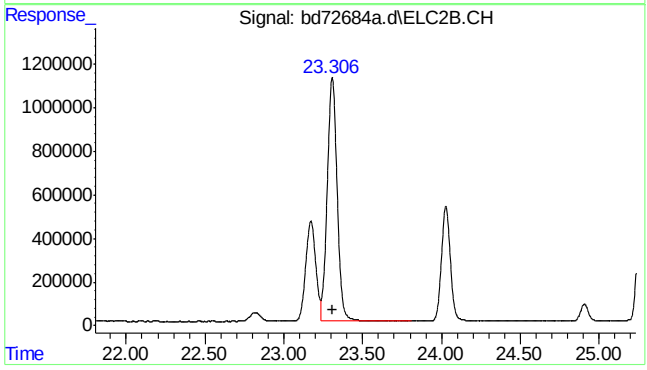
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 9070743
Conc: 50.00 ppb



#28 ethylbenzene #2

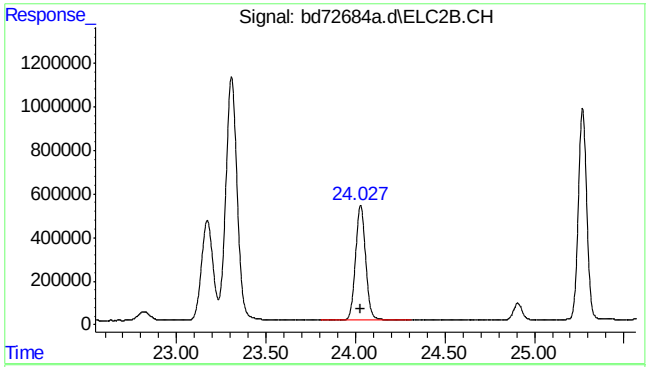
R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 20325119
Conc: 50.00 ppb



#29 m,p-xylene #2

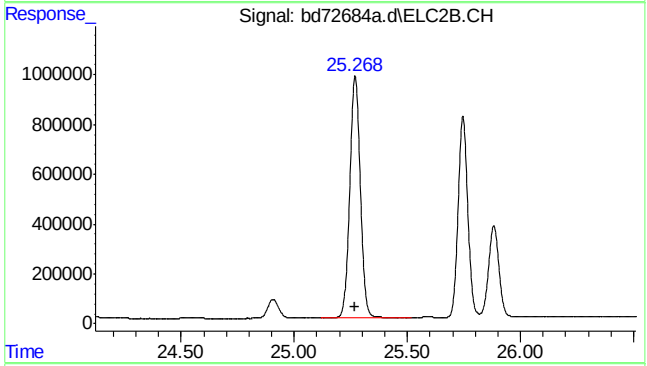
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 49291829
Conc: 100.00 ppb

SGS ACCUTEST MC45969



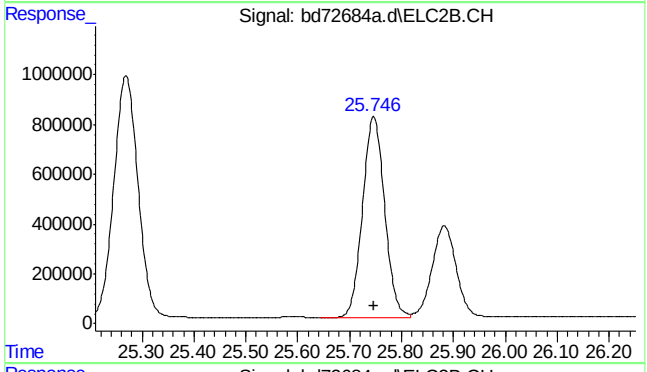
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 20846761
Conc: 50.00 ppb



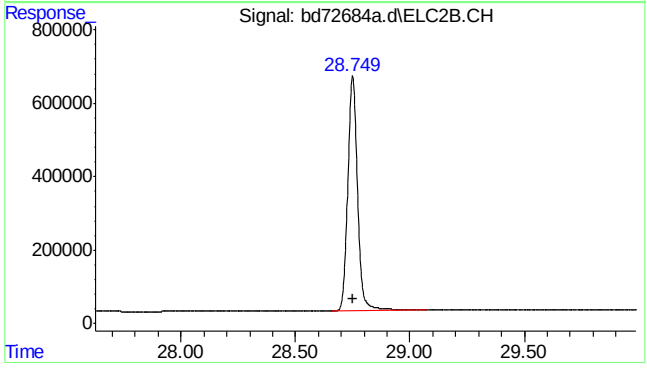
#31 1,3,5-trimethylbenzene #2

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 31712590
Conc: 50.00 ppb



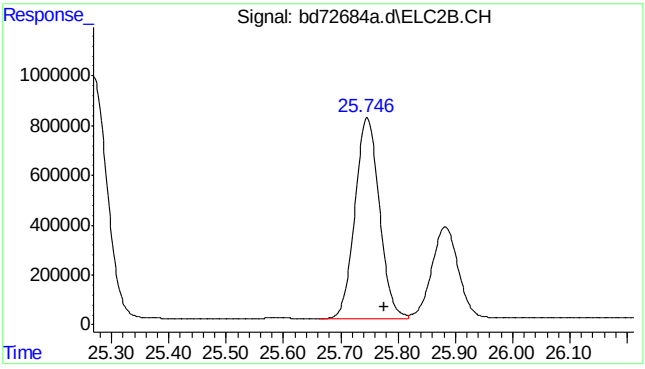
#32 1,2,4-trimethylbenzene #2

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 23925194
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: 0.000 min
Response: 19084412
Conc: 50.01 ppb m



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	23927237
Conc:	50.00 ppb m

7.5.14

7

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3574-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.424	7790076	10.604 ppb	m
Spiked Amount 50.000		Recovery =	21.21%	
9) s 2,3,4-trifluorotoluene	21.237	5892388	10.383 ppb	m
Spiked Amount 50.000		Recovery =	20.77%	
25) s fluorobenzene #2	16.424	3885600	10.970 ppb	m
Spiked Amount 50.000		Recovery =	21.94%	
27) s 2,3,4-trifluorotoluen...	21.237	2170174	10.531 ppb	m
Spiked Amount 50.000		Recovery =	21.06%	
Target Compounds				
1) h rt5.5-7	7.470	5478380	9.673 ppb	m
2) h rt7/10	9.920	6151519	9.578 ppb	m
3) mtbe	10.683	2869302	9.915 ppb	m
4) h rt10/13	15.200	7560791	10.267 ppb	m
5) benzene	15.934	7526601	9.594 ppb	m
8) toluene	20.220	7478514	9.601 ppb	m
11) h rt20/25	22.840	8045975	9.978 ppb	m
13) ethylbenzene	23.172	7648937	9.735 ppb	
14) m,p-xylene	23.307	16659616	20.368 ppb	
15) o-xylene	24.029	8134654	9.865 ppb	
16) h decane	24.930	8489226	9.899 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	9966676	10.402 ppb	
18) 1,2,4-trimethylbenzene	25.747	8741165	10.031 ppb	
19) h butylcyclohexane	25.908	9260257	10.094 ppb	m
20) naphthalene	28.751	4112144	9.611 ppb	
23) mtbe #2	10.696	1570260	10.071 ppb	m
24) benzene #2	15.932	4569131	9.758 ppb	
26) toluene #2	20.221	4236945	9.801 ppb	m
28) ethylbenzene #2	23.172	3840788	9.811 ppb	
29) m,p-xylene #2	23.307	9363713	19.635 ppb	
30) o-xylene #2	24.028	4014129	9.824 ppb	
31) t 1,3,5-trimethylbenzen...	25.268	6605929	10.076 ppb	m
32) 1,2,4-trimethylbenzen...	25.746	4478298	9.727 ppb	m
33) naphthalene #2	28.750	2921622	9.536 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	4489691	9.785 ppb	m

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

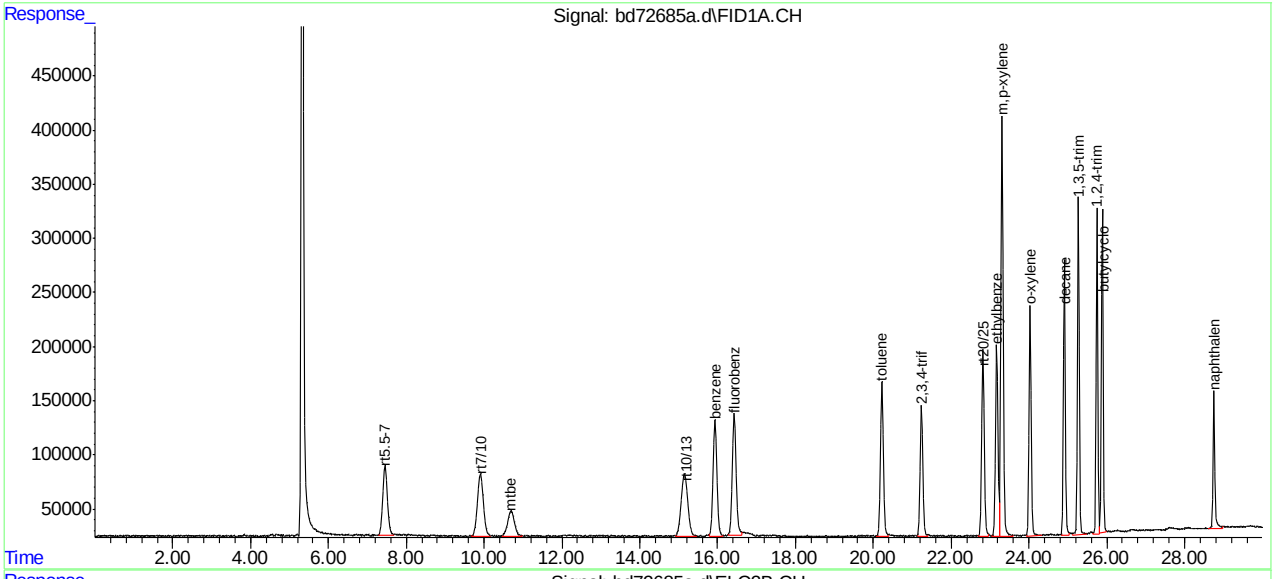
SGS ACCUTEST MC45969

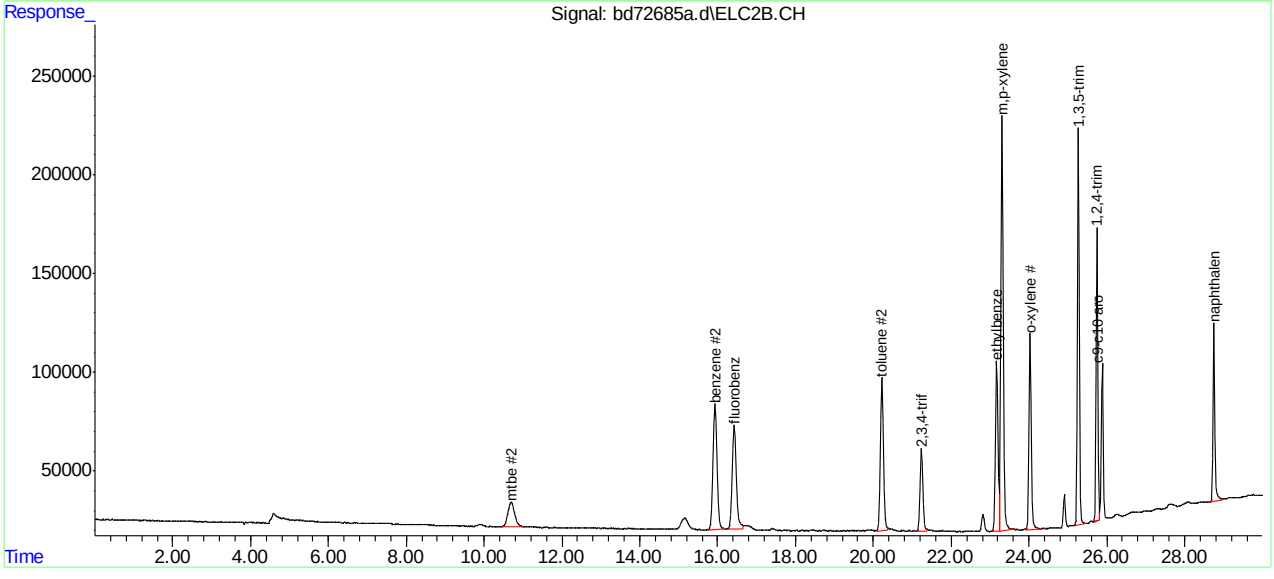
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3574-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

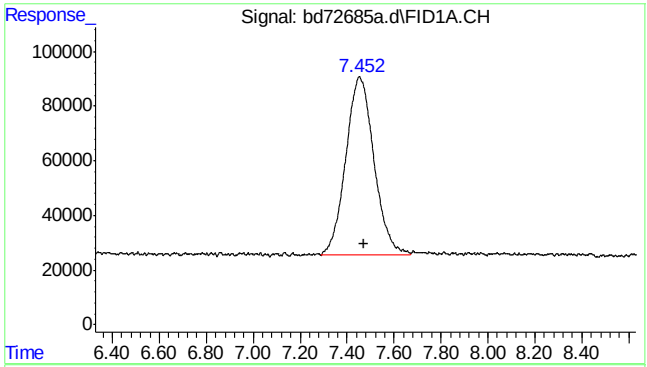
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



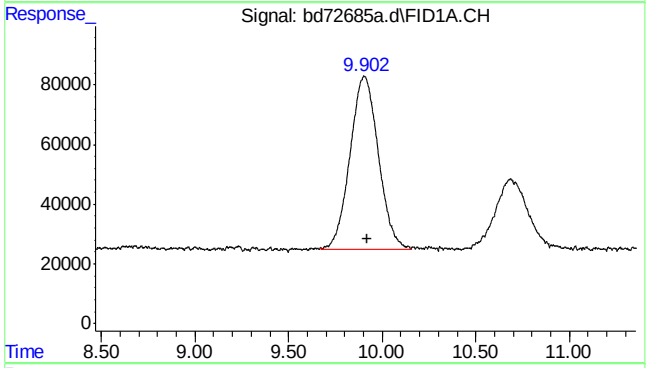


SGS ACCUTEST MC45969



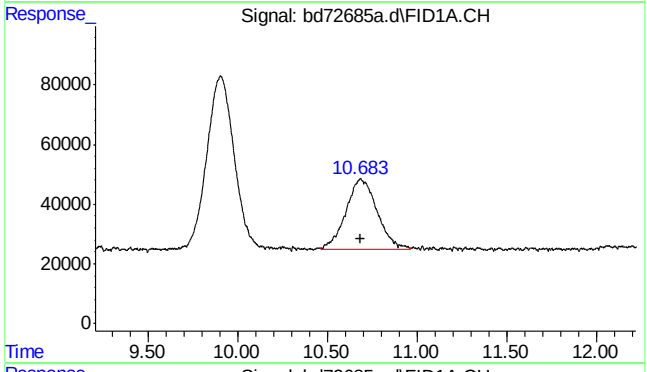
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 5478380
Conc: 9.67 ppb m



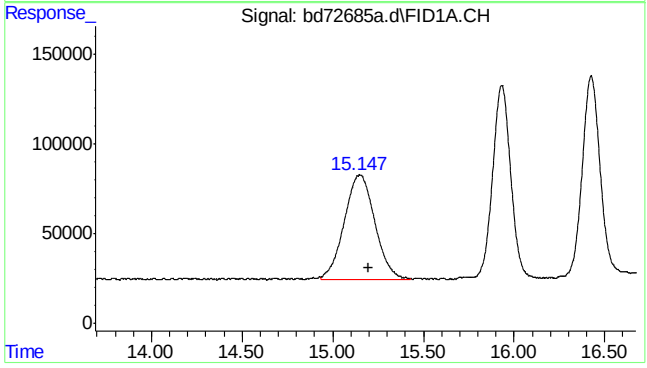
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 6151519
Conc: 9.58 ppb m



#3 mtbe

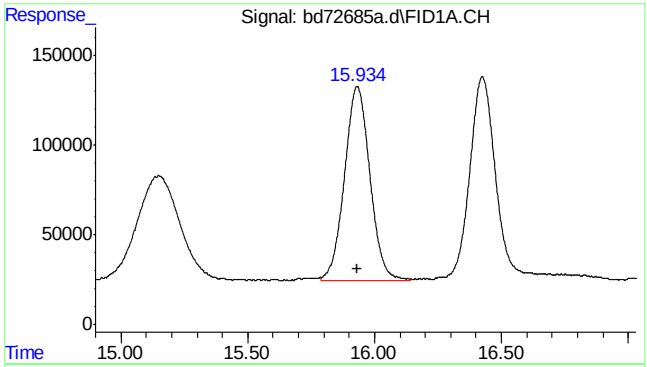
R.T.: 10.683 min
Delta R.T.: 0.000 min
Response: 2869302
Conc: 9.92 ppb m



#4 rt10/13

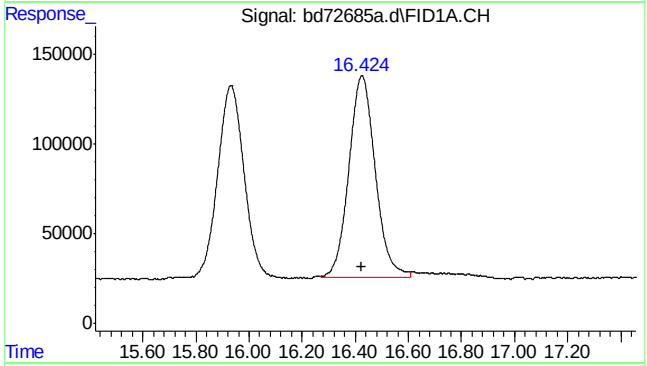
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 7560791
Conc: 10.27 ppb m

SGS ACCUTEST MC45969



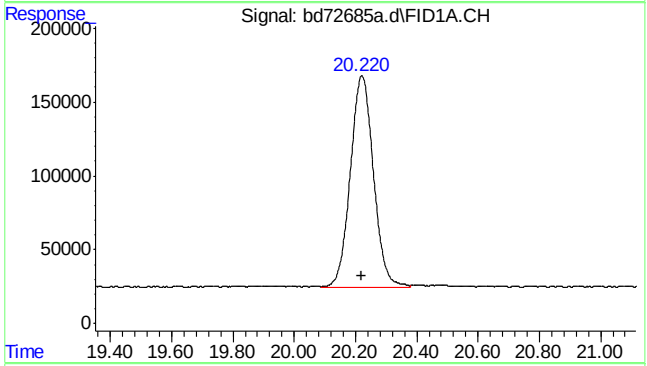
#5 benzene

R.T.: 15.934 min
Delta R.T.: 0.001 min
Response: 7526601
Conc: 9.59 ppb m



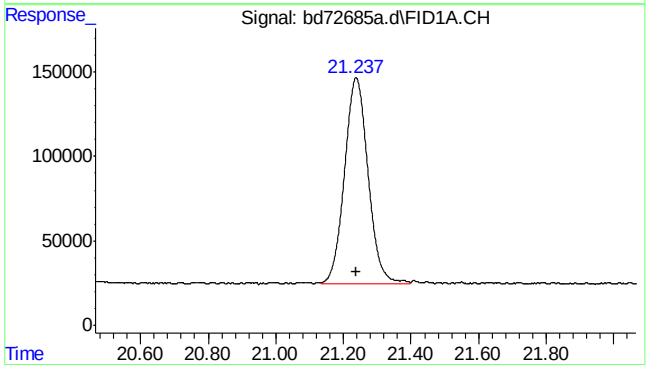
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 7790076
Conc: 10.60 ppb m



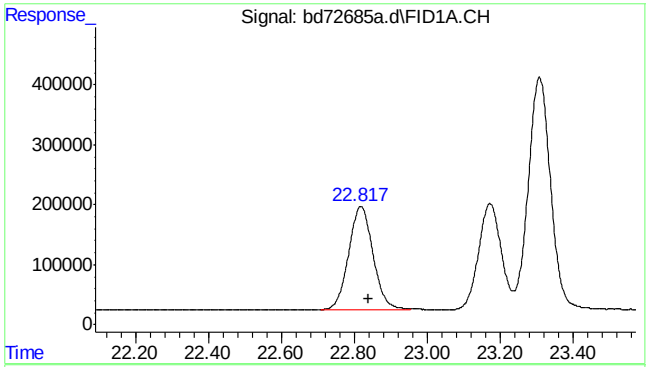
#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 7478514
Conc: 9.60 ppb m



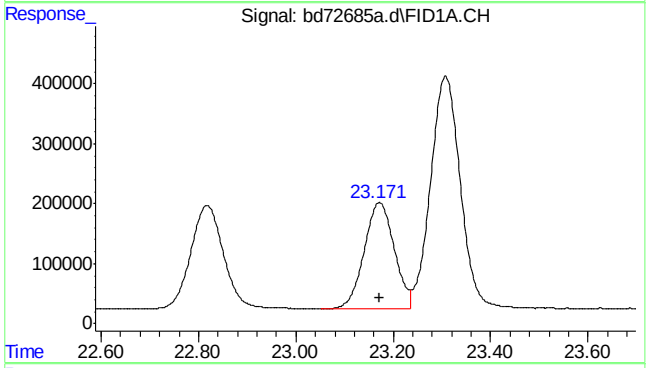
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 5892388
Conc: 10.38 ppb m



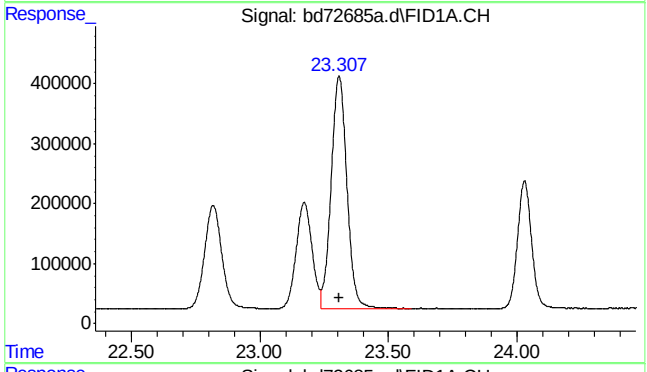
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 8045975
Conc: 9.98 ppb m



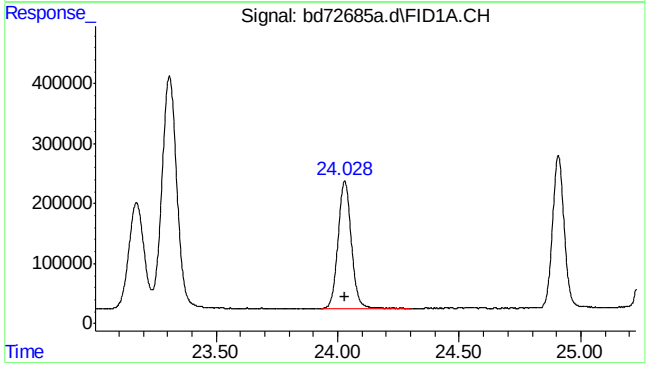
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 7648937
Conc: 9.73 ppb



#14 m,p-xylene

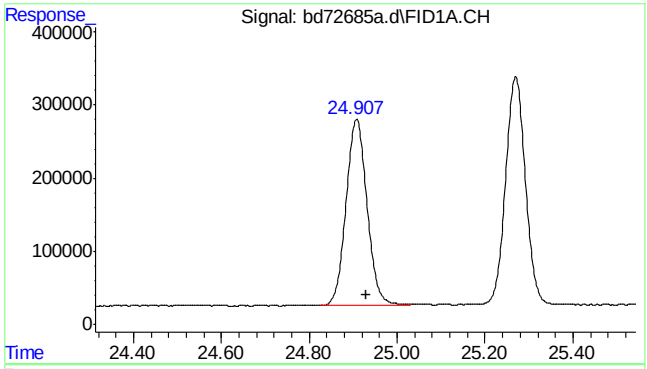
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 16659616
Conc: 20.37 ppb



#15 o-xylene

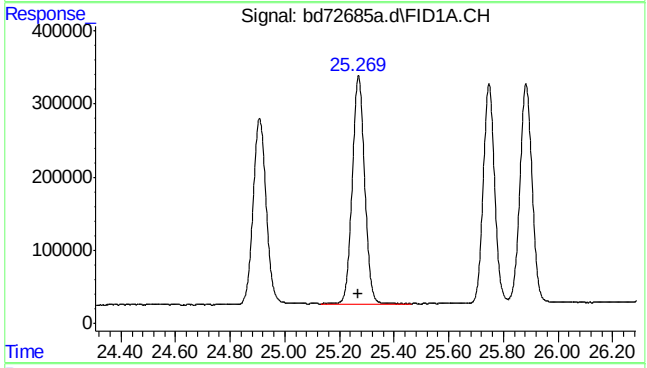
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 8134654
Conc: 9.86 ppb

SGS ACCUTEST MC45969



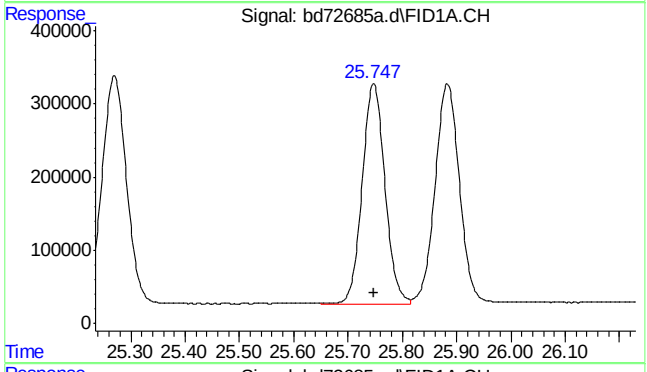
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 8489226
Conc: 9.90 ppb m



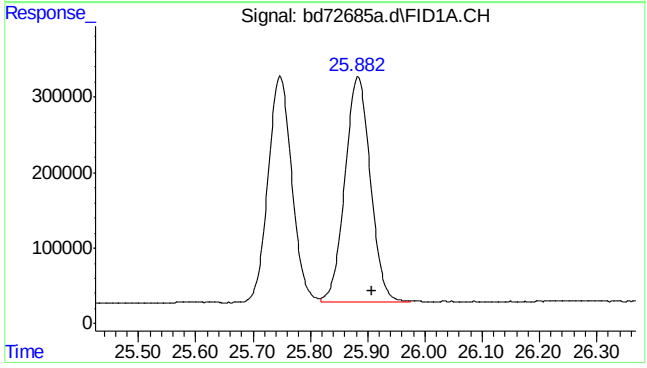
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 9966676
Conc: 10.40 ppb



#18 1,2,4-trimethylbenzene

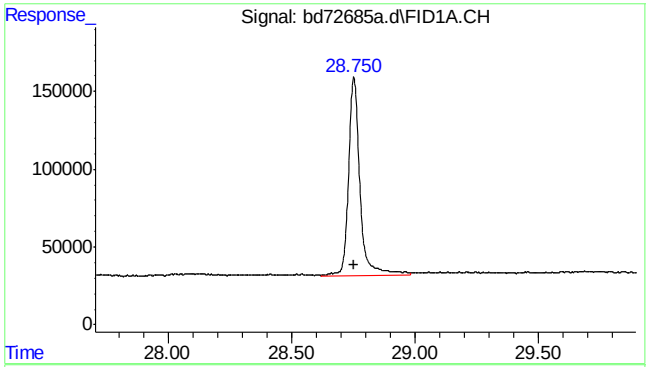
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 8741165
Conc: 10.03 ppb



#19 butylcyclohexane

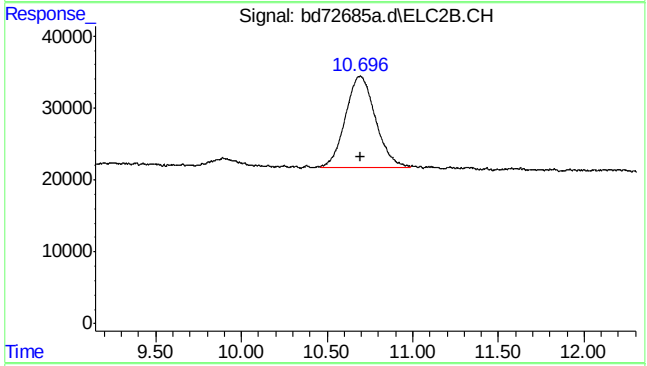
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 9260257
Conc: 10.09 ppb m

SGS ACCUTEST MC45969



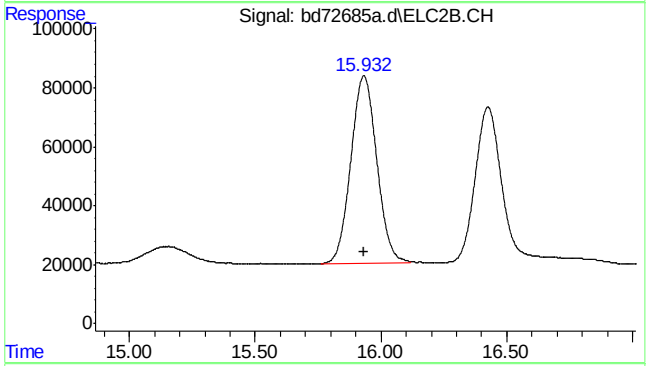
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 4112144
Conc: 9.61 ppb



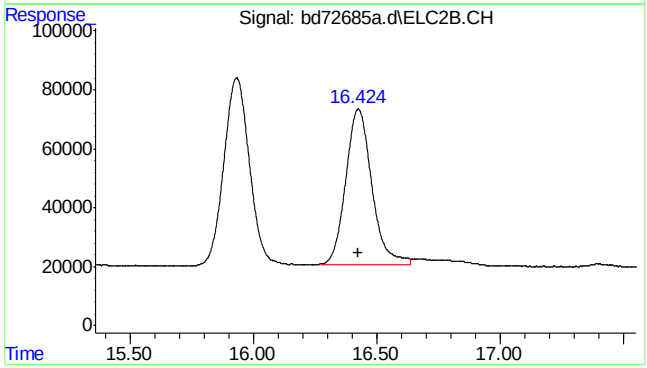
#23 mtbe #2

R.T.: 10.696 min
Delta R.T.: 0.000 min
Response: 1570260
Conc: 10.07 ppb m



#24 benzene #2

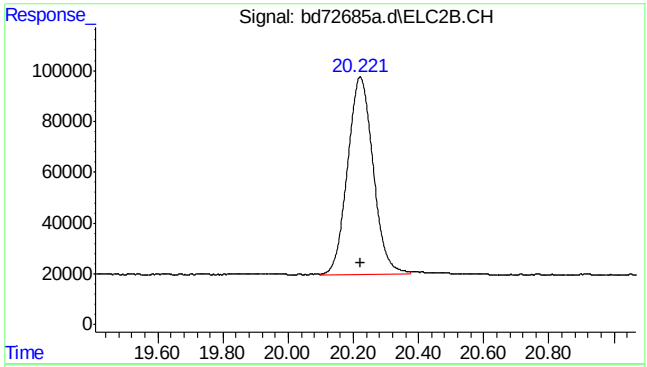
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 4569131
Conc: 9.76 ppb



#25 fluorobenzene #2

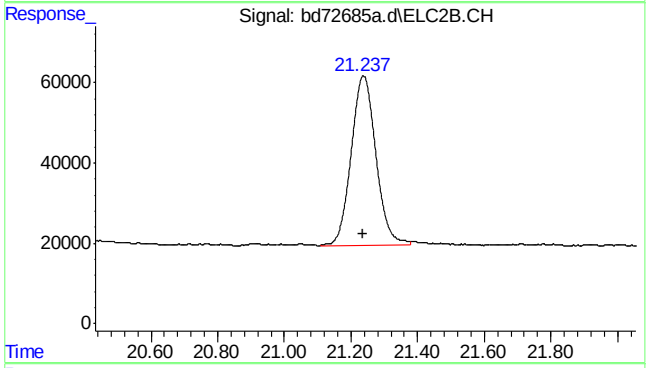
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 3885600
Conc: 10.97 ppb m

SGS ACCUTEST MC45969



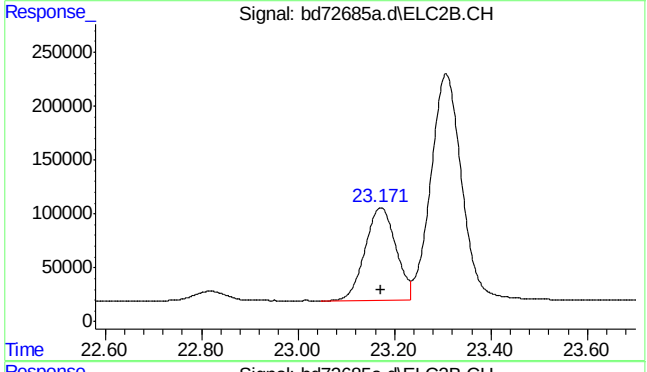
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 4236945
Conc: 9.80 ppb m



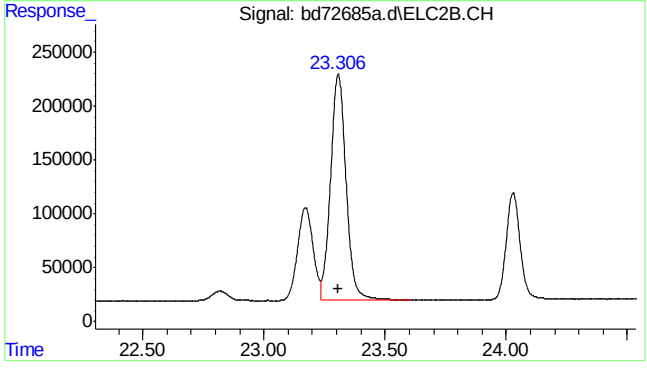
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2170174
Conc: 10.53 ppb m



#28 ethylbenzene #2

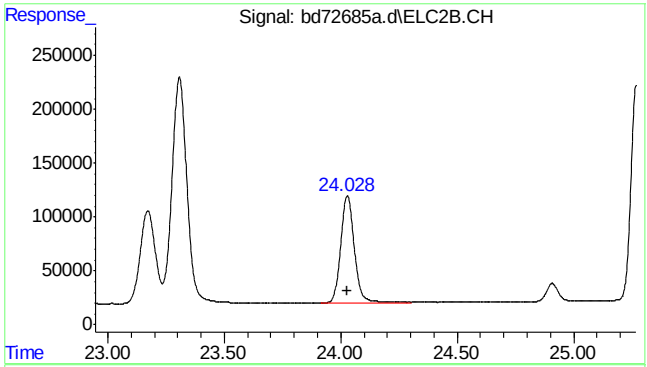
R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3840788
Conc: 9.81 ppb



#29 m,p-xylene #2

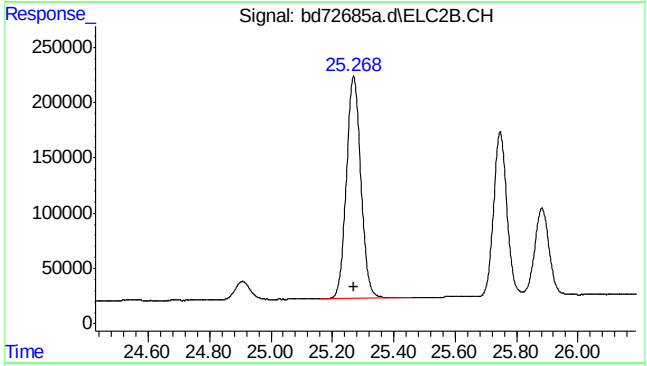
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 9363713
Conc: 19.64 ppb

SGS ACCUTEST MC45969



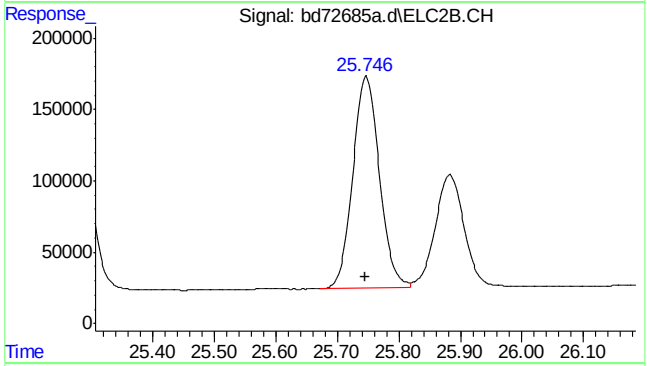
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 4014129
Conc: 9.82 ppb



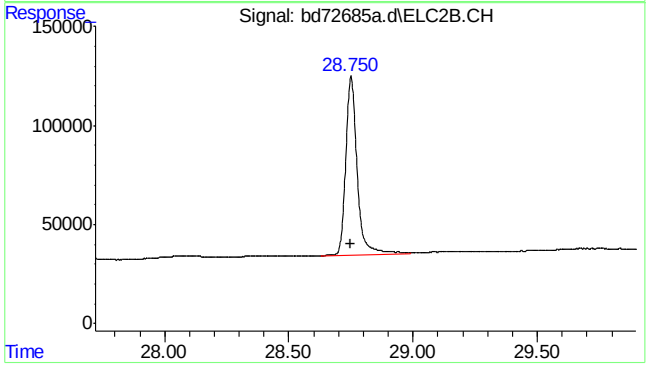
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 6605929
Conc: 10.08 ppb m



#32 1,2,4-trimethylbenzene #2

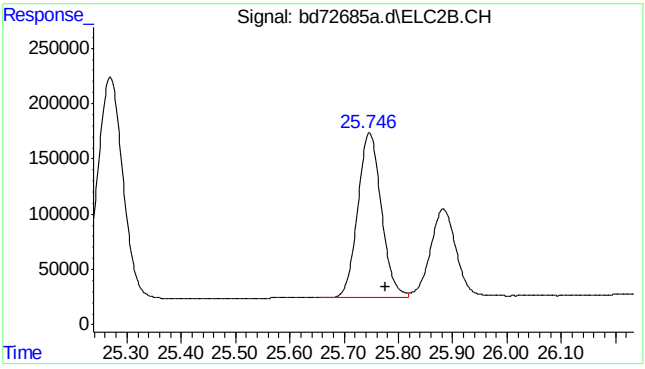
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 4478298
Conc: 9.73 ppb m



#33 naphthalene #2

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 2921622
Conc: 9.54 ppb m

SGS ACCUTEST MC45969



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	4489691
Conc:	9.79 ppb m

7.5.15

7

SGS ACCUTEST MC45969

BD72686A.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3574-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.422	3688118	5.021 ppb	m
Spiked Amount 50.000		Recovery =	10.04%	
9) s 2,3,4-trifluorotoluene	21.237	2891402	5.093 ppb	m
Spiked Amount 50.000		Recovery =	10.19%	
25) s fluorobenzene #2	16.427	1839983	5.187 ppb	
Spiked Amount 50.000		Recovery =	10.37%	
27) s 2,3,4-trifluorotoluen...	21.239	1093855	5.317 ppb	
Spiked Amount 50.000		Recovery =	10.63%	
Target Compounds				
1) h rt5.5-7	7.470	2723524	4.815 ppb	m
2) h rt7/10	9.920	3084292	4.809 ppb	m
3) mtbe	10.703f	1367206	4.694 ppb	m
4) h rt10/13	15.200	3432971	4.660 ppb	m
5) benzene	15.928	3586407	4.622 ppb	m
8) toluene	20.220	3670681	4.710 ppb	m
11) h rt20/25	22.840	4228618	5.237 ppb	m
13) ethylbenzene	23.172	3725793	4.742 ppb	
14) m,p-xylene	23.307	8126886	9.936 ppb	
15) o-xylene	24.029	3958698	4.801 ppb	
16) h decane	24.930	4869338	5.664 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	4911450	5.095 ppb	
18) 1,2,4-trimethylbenzene	25.747	4259354	4.888 ppb	m
19) h butylcyclohexane	25.908	4968205	5.418 ppb	m
20) naphthalene	28.751	1655353	3.869 ppb	m
23) mtbe #2	10.684	768191	4.929 ppb	m
24) benzene #2	15.932	2284991	4.901 ppb	m
26) toluene #2	20.221	2057654	4.798 ppb	
28) ethylbenzene #2	23.171	1919162	4.902 ppb	
29) m,p-xylene #2	23.307	4695443	9.846 ppb	
30) o-xylene #2	24.029	2037337	4.986 ppb	
31) t 1,3,5-trimethylbenzen...	25.270	3360107	5.125 ppb	
32) 1,2,4-trimethylbenzen...	25.747	2257211	4.900 ppb	m
33) naphthalene #2	28.752	1234487	4.022 ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	2258039	4.914 ppb	m

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

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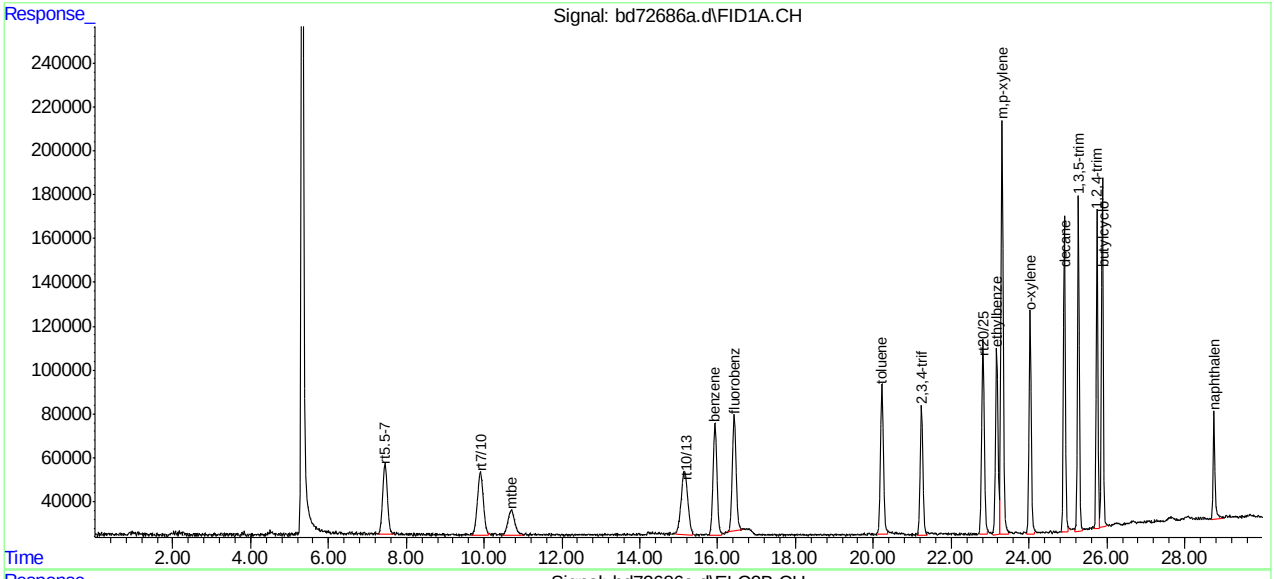
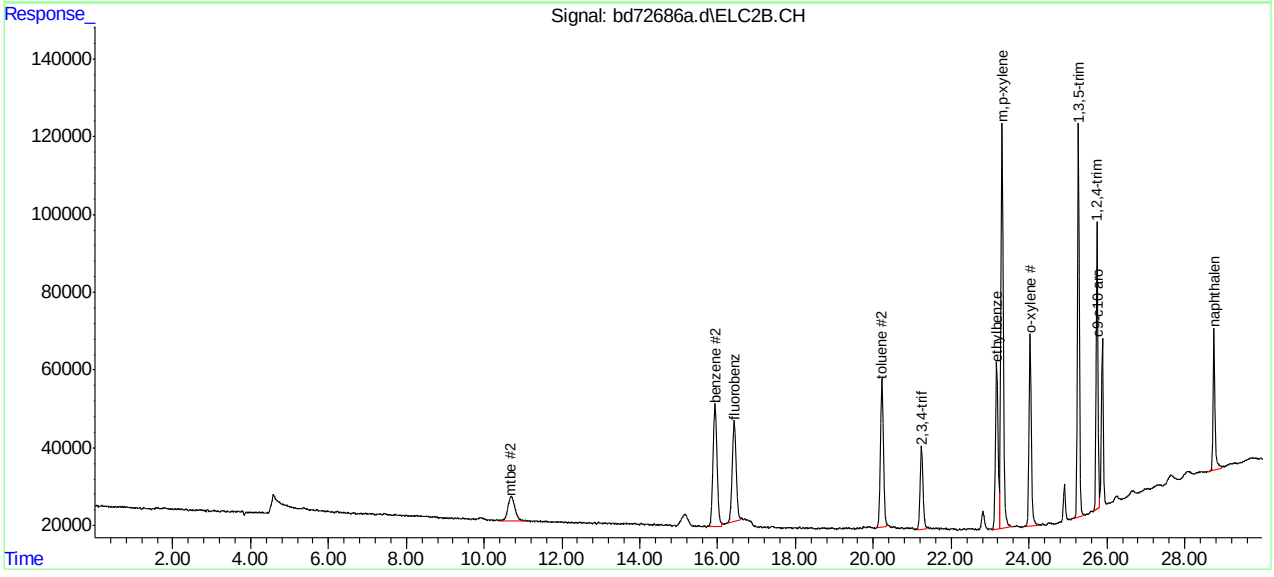
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3574-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

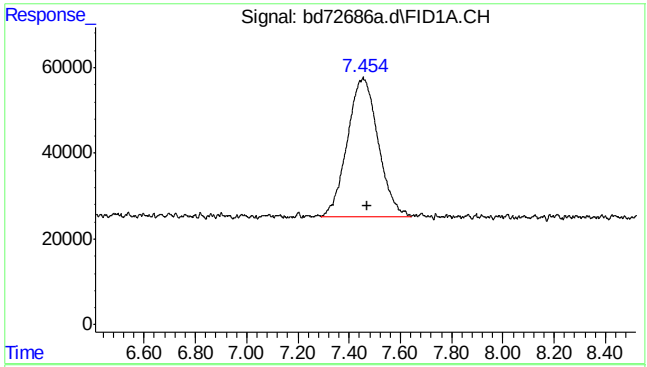
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



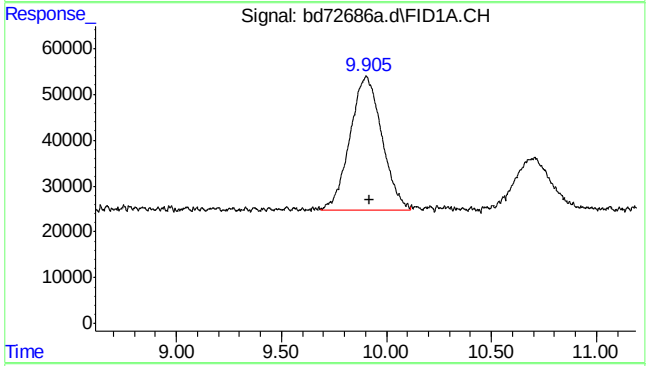


SGS ACCUTEST MC45969



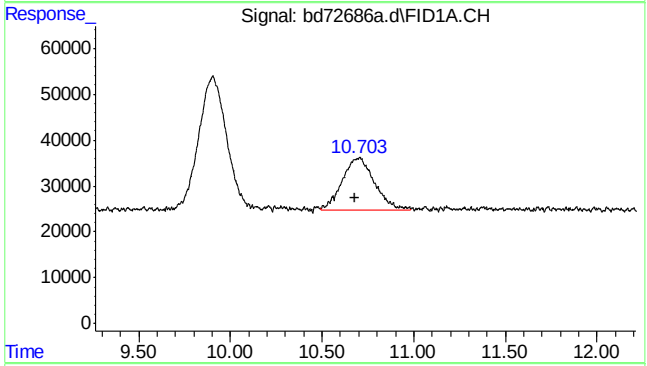
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2723524
Conc: 4.82 ppb m



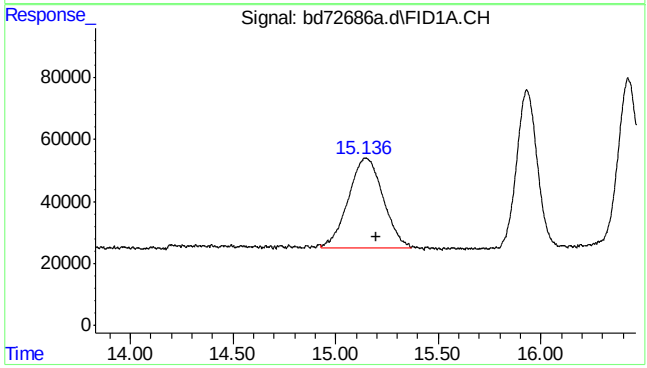
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3084292
Conc: 4.81 ppb m



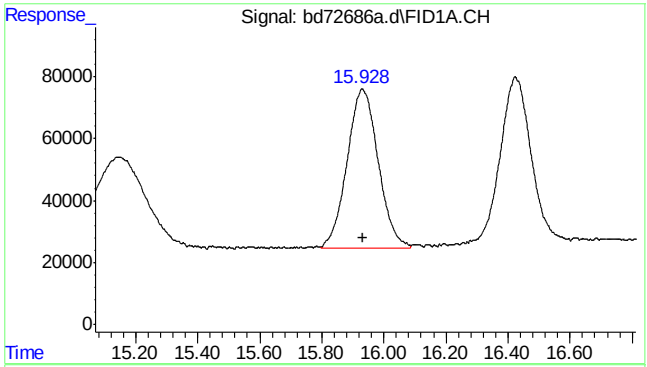
#3 mtbe

R.T.: 10.703 min
Delta R.T.: 0.020 min
Response: 1367206
Conc: 4.69 ppb m



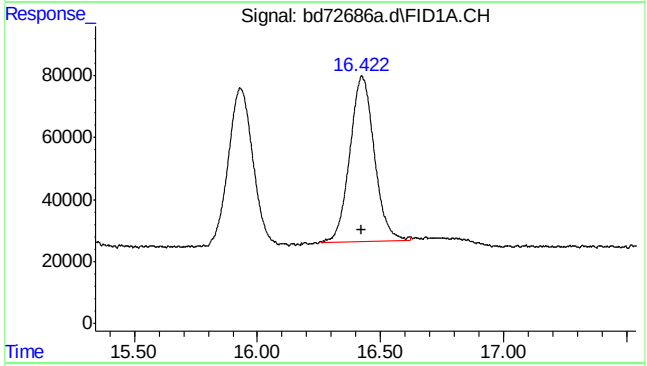
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 3432971
Conc: 4.66 ppb m



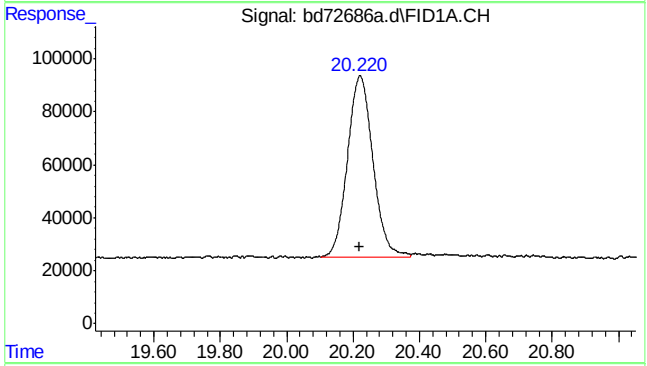
#5 benzene

R.T.: 15.928 min
Delta R.T.: -0.005 min
Response: 3586407
Conc: 4.62 ppb m



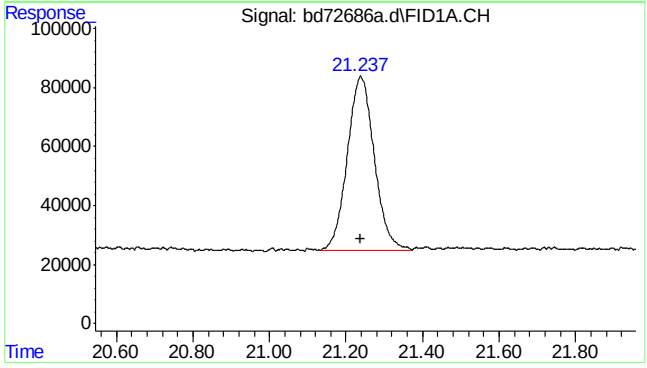
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 3688118
Conc: 5.02 ppb m



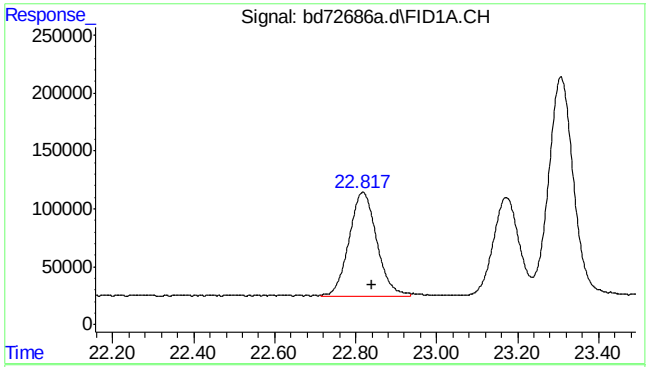
#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 3670681
Conc: 4.71 ppb m



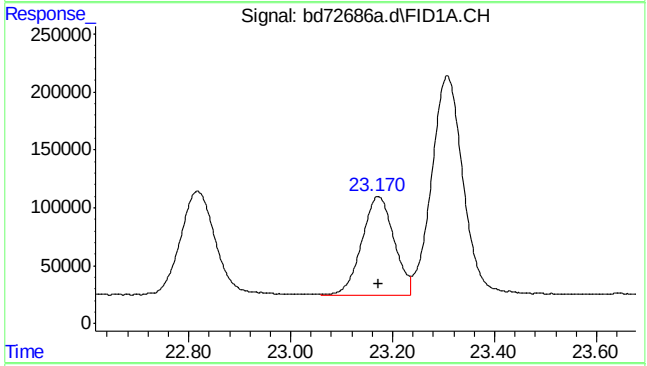
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2891402
Conc: 5.09 ppb m



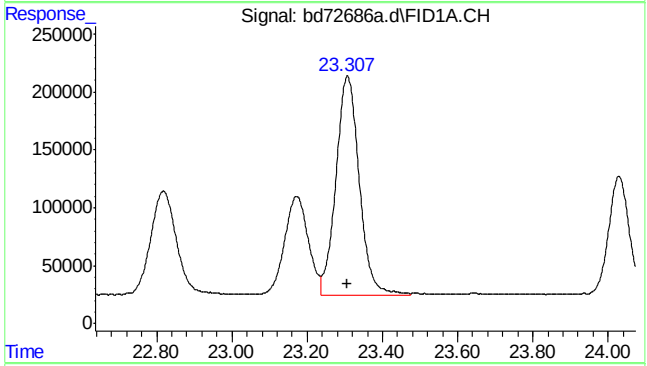
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 4228618
Conc: 5.24 ppb m



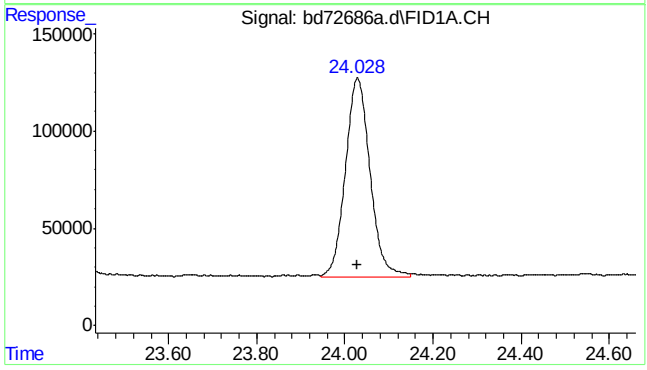
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3725793
Conc: 4.74 ppb



#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 8126886
Conc: 9.94 ppb



#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 3958698
Conc: 4.80 ppb

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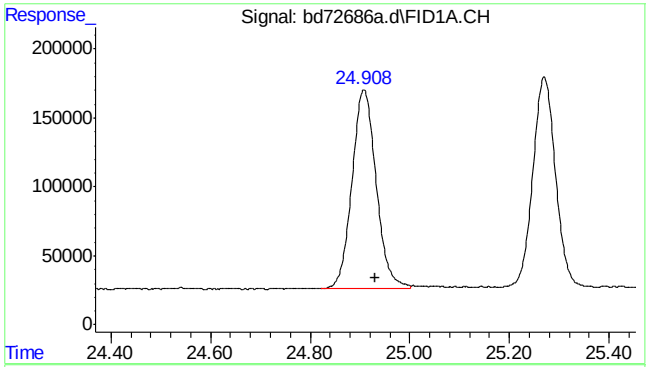
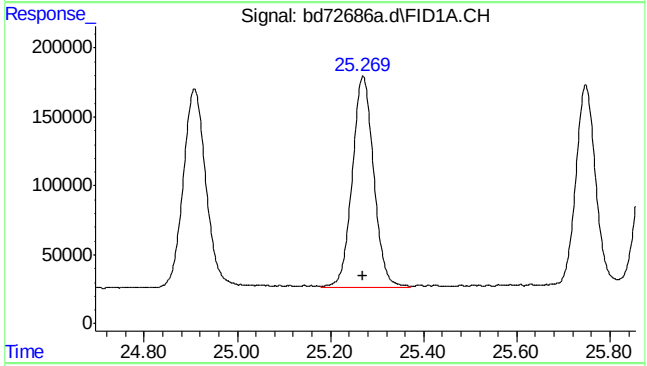


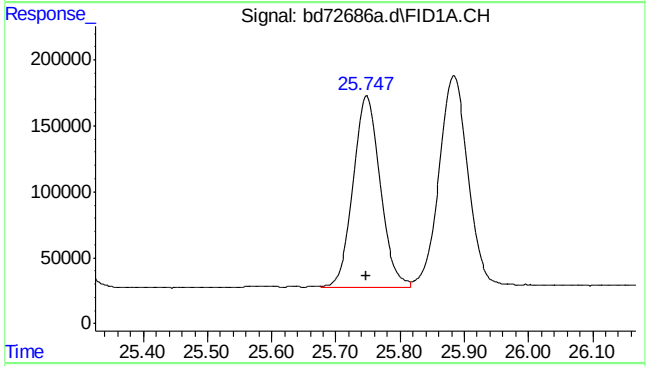
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 4869338
Conc: 5.66 ppb m



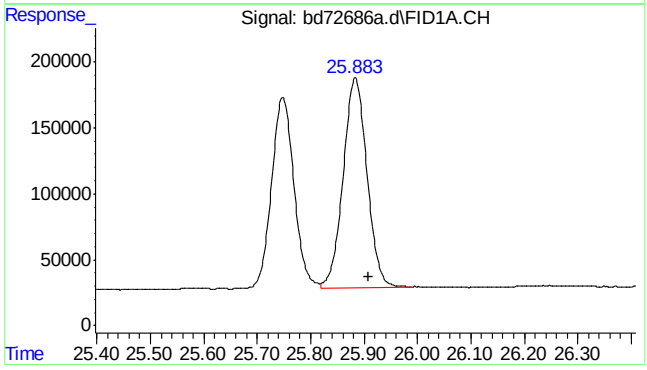
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 4911450
Conc: 5.10 ppb



#18 1,2,4-trimethylbenzene

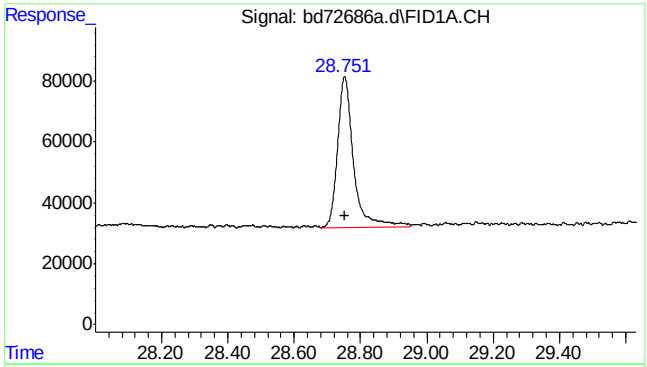
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 4259354
Conc: 4.89 ppb m



#19 butylcyclohexane

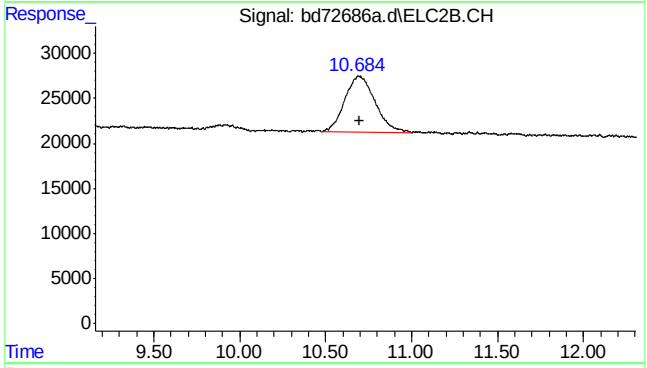
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 4968205
Conc: 5.42 ppb m

SGS ACCUTEST MC45969



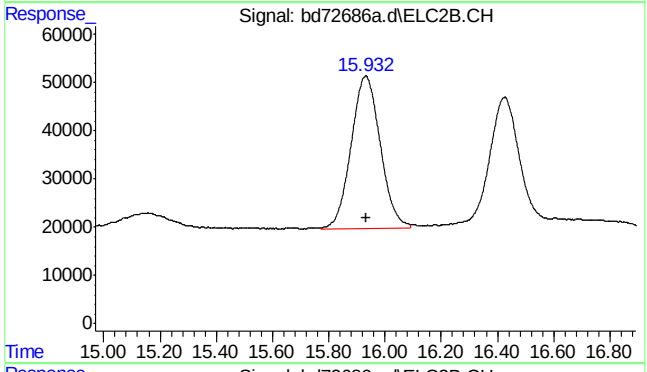
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 1655353
Conc: 3.87 ppb m



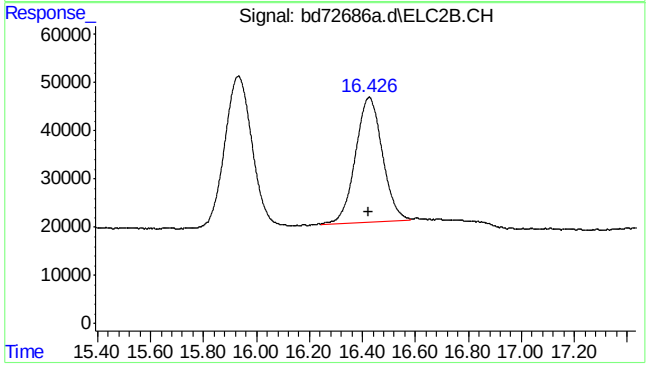
#23 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.011 min
Response: 768191
Conc: 4.93 ppb m



#24 benzene #2

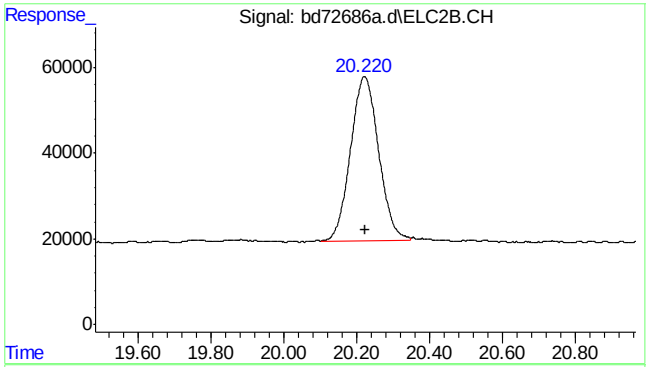
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 2284991
Conc: 4.90 ppb m



#25 fluorobenzene #2

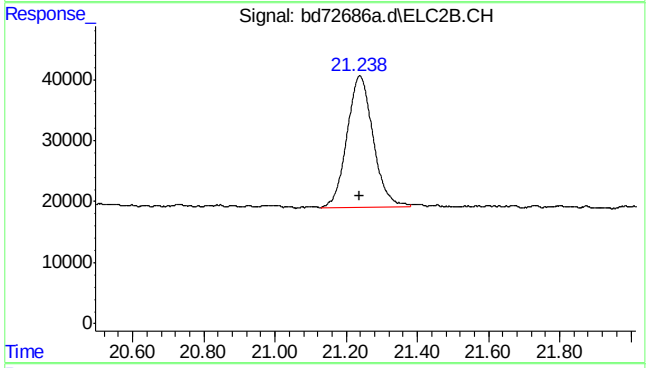
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 1839983
Conc: 5.19 ppb

SGS ACCUTEST MC45969



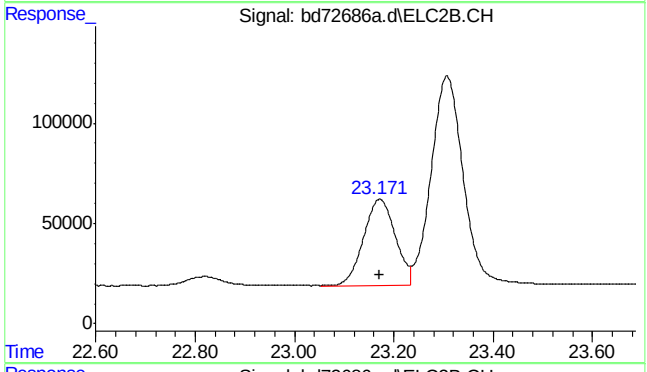
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 2057654
Conc: 4.80 ppb



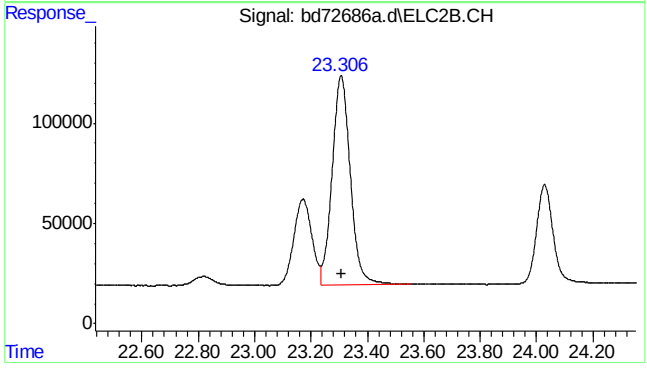
#27 2,3,4-trifluorotoluene #2

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 1093855
Conc: 5.32 ppb



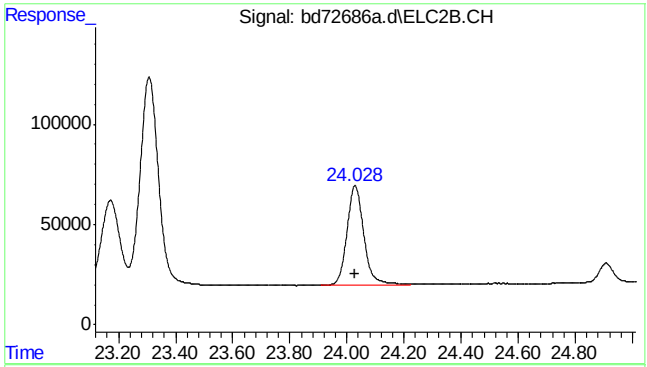
#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 1919162
Conc: 4.90 ppb



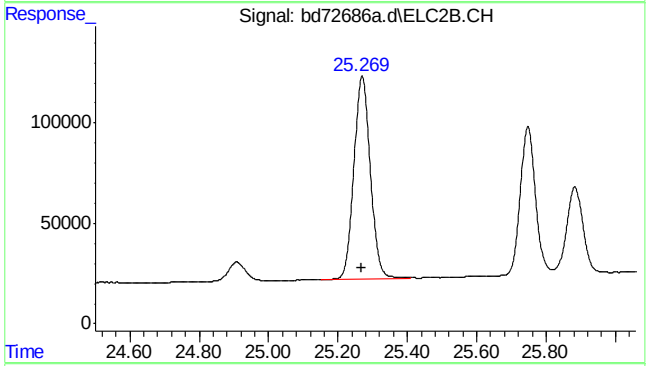
#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 4695443
Conc: 9.85 ppb



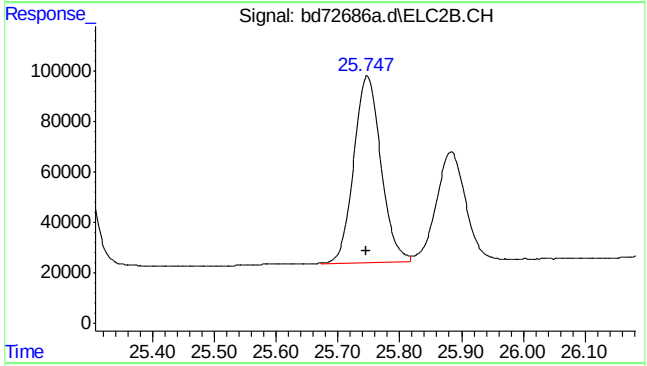
#30 o-xylene #2

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 2037337
Conc: 4.99 ppb



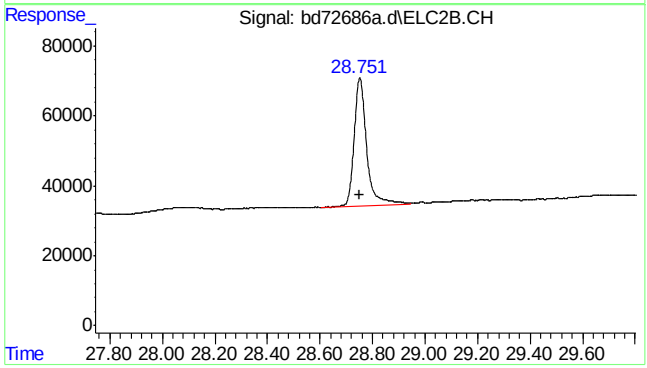
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 3360107
Conc: 5.13 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 2257211
Conc: 4.90 ppb m



#33 naphthalene #2

R.T.: 28.752 min
Delta R.T.: 0.002 min
Response: 1234487
Conc: 4.02 ppb

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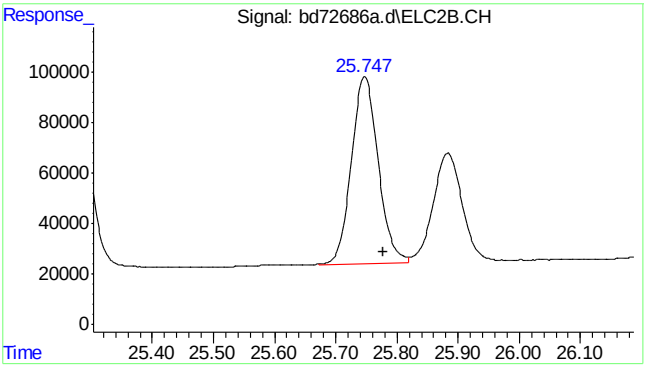



```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response:   2258039
      Conc:   4.91 ppb m
```

7.5.16

7

SGS ACCUTEST MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3574-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.422	1412065	1.927 ppb	m
Spiked Amount 50.000		Recovery =	3.85%	
9) s 2,3,4-trifluorotoluene	21.238	1015129	1.784 ppb	m
Spiked Amount 50.000		Recovery =	3.57%	
25) s fluorobenzene #2	16.427	710788	2.004 ppb	m
Spiked Amount 50.000		Recovery =	4.01%	
27) s 2,3,4-trifluorotoluen...	21.241	375383	1.825 ppb	
Spiked Amount 50.000		Recovery =	3.65%	
Target Compounds				
1) h rt5.5-7	7.470	1181221	2.090 ppb	m
2) h rt7/10	9.920	1423940	2.215 ppb	m
3) mtbe	10.690	573857	1.980 ppb	m
4) h rt10/13	15.200	1543987	2.195 ppb	m
5) benzene	15.935	1508329	1.942 ppb	m
8) toluene	20.223	1483744	1.905 ppb	m
11) h rt20/25	22.840	2002361	2.479 ppb	m
13) ethylbenzene	23.173	1597064	2.033 ppb	
14) m,p-xylene	23.310	3360397	4.108 ppb	
15) o-xylene	24.031	1696702	2.058 ppb	
16) h decane	24.930	2500365	2.905 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	1822082	1.890 ppb	m
18) 1,2,4-trimethylbenzene	25.749	1811882	2.081 ppb	m
19) h butylcyclohexane	25.908	2416889	2.641 ppb	m
20) naphthalene	28.755	633669	1.476 ppb	m
23) mtbe #2	10.705	319987	2.043 ppb	m
24) benzene #2	15.931	943892	2.028 ppb	
26) toluene #2	20.223	898559	2.095 ppb	
28) ethylbenzene #2	23.174	826337	2.111 ppb	
29) m,p-xylene #2	23.309	2027328	4.251 ppb	
30) o-xylene #2	24.028	873175	2.137 ppb	m
31) t 1,3,5-trimethylbenzen...	25.271	1355890	2.068 ppb	
32) 1,2,4-trimethylbenzen...	25.748	998600	2.174 ppb	m
33) naphthalene #2	28.753	472807	1.541 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	993959	2.162 ppb	m

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

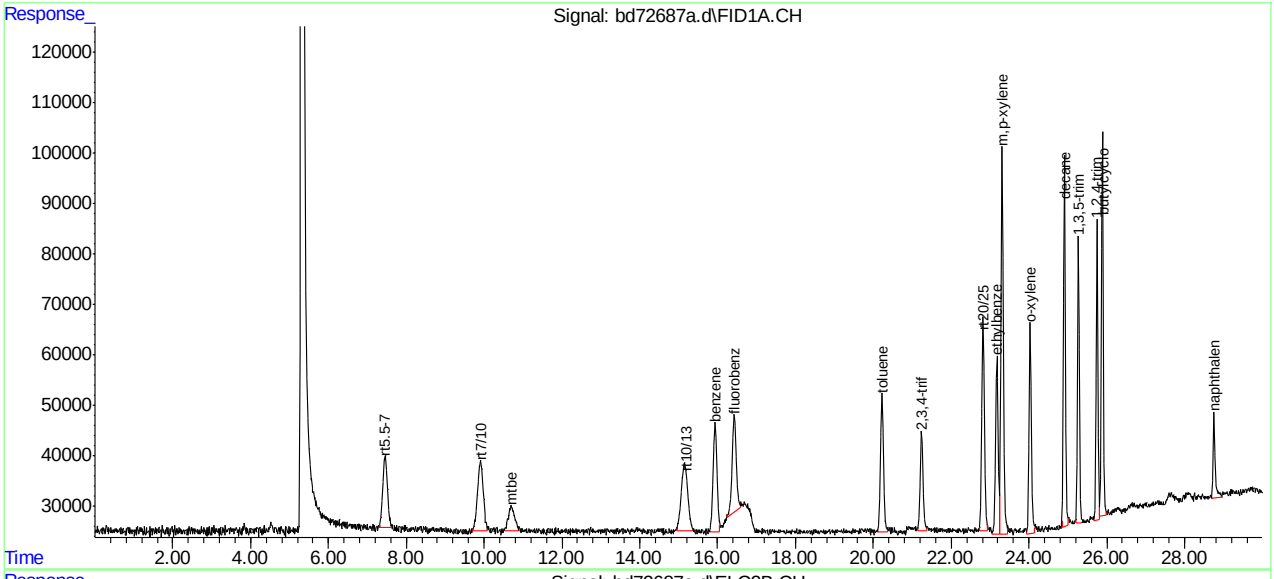
SGS ACCUTEST MC45969

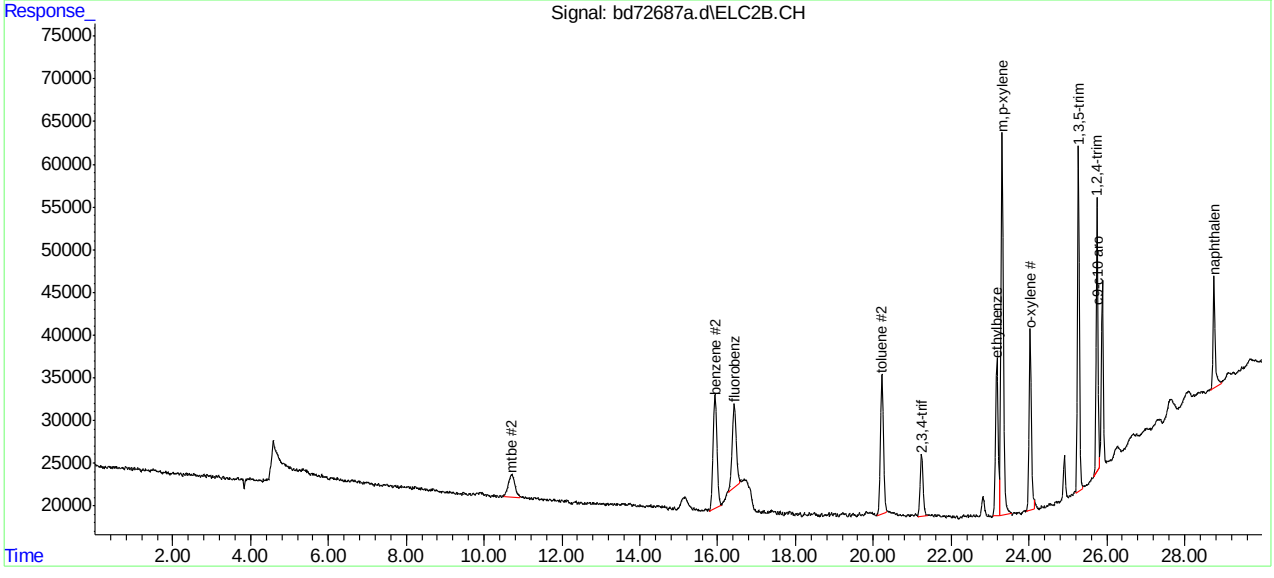
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3574-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

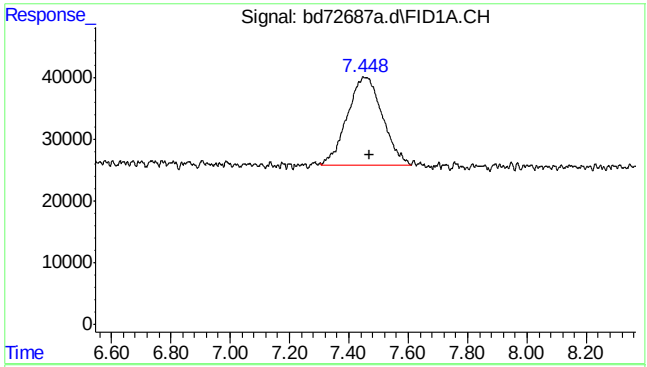
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



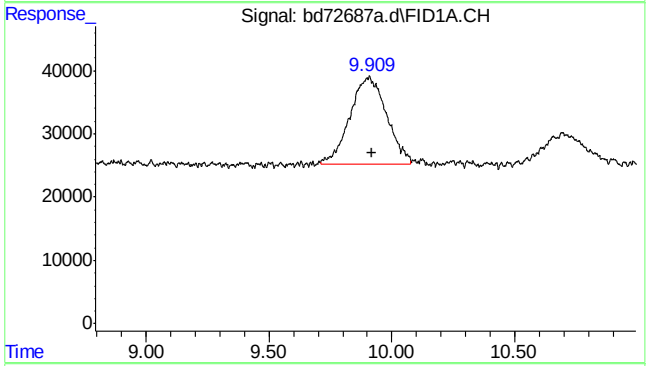


SGS ACCUTEST MC45969



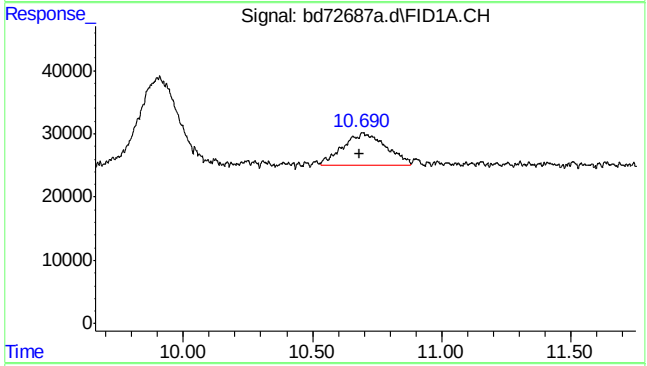
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1181221
Conc: 2.09 ppb m



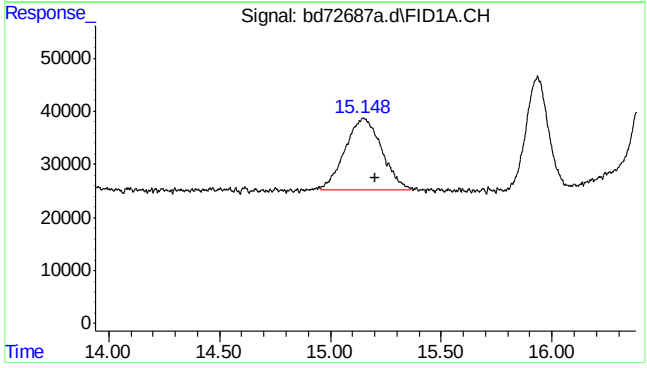
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 1423940
Conc: 2.22 ppb m



#3 mtbe

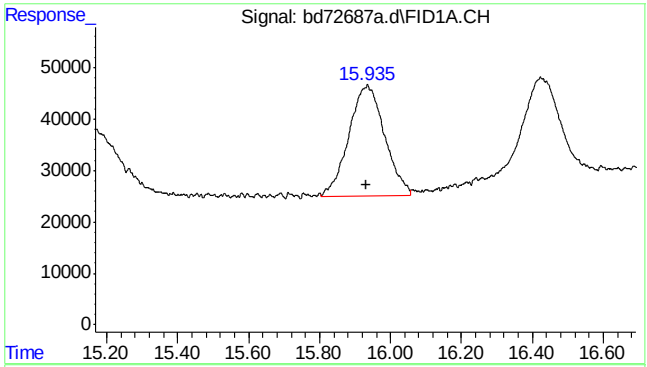
R.T.: 10.690 min
Delta R.T.: 0.007 min
Response: 573857
Conc: 1.98 ppb m



#4 rt10/13

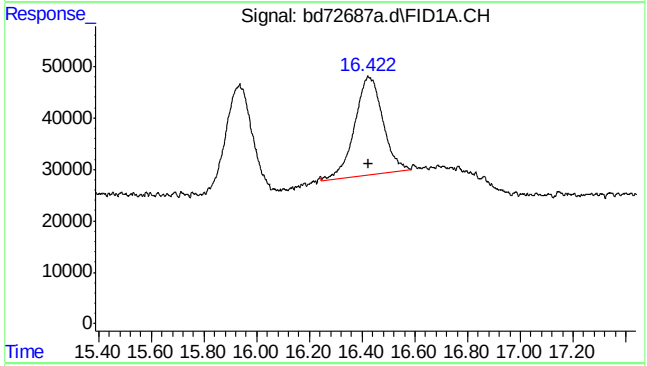
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1543987
Conc: 2.19 ppb m

SGS ACCUTEST MC45969



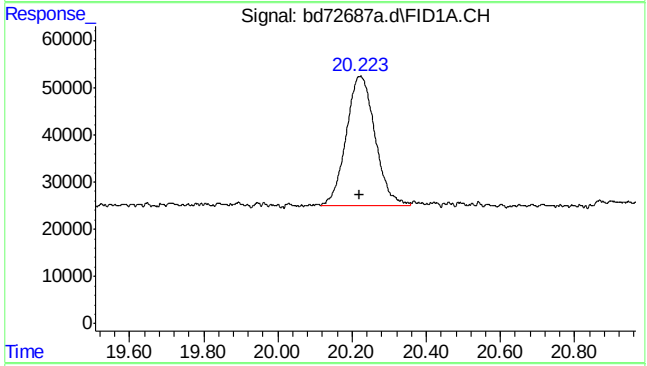
#5 benzene

R.T.: 15.935 min
Delta R.T.: 0.002 min
Response: 1508329
Conc: 1.94 ppb m



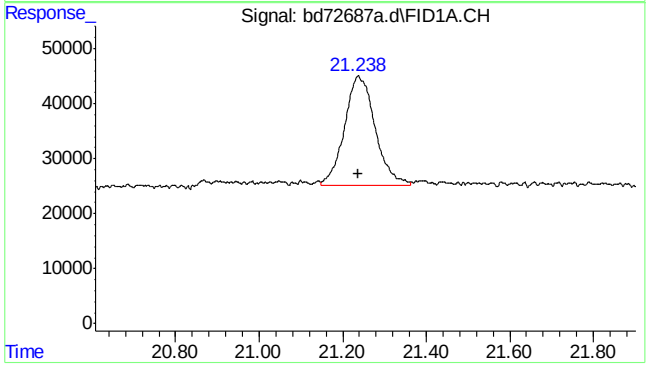
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 1412065
Conc: 1.93 ppb m



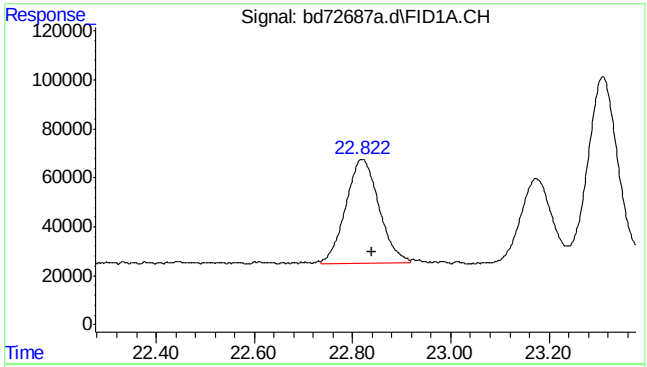
#8 toluene

R.T.: 20.223 min
Delta R.T.: 0.003 min
Response: 1483744
Conc: 1.90 ppb m



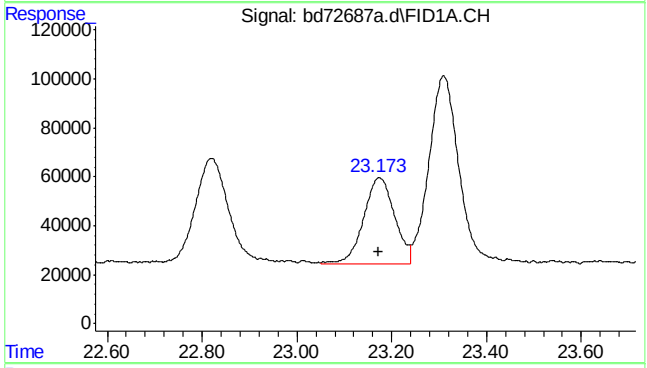
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 1015129
Conc: 1.78 ppb m



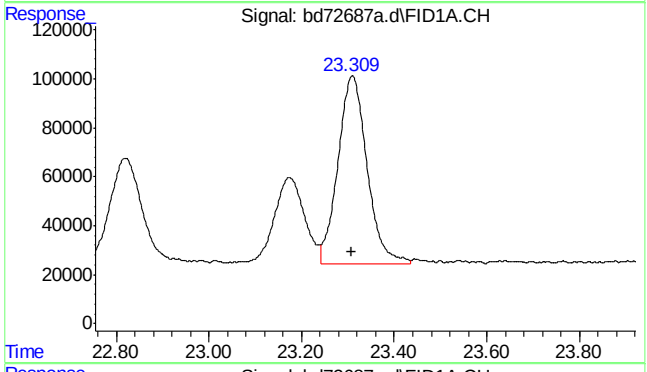
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 2002361
Conc: 2.48 ppb m



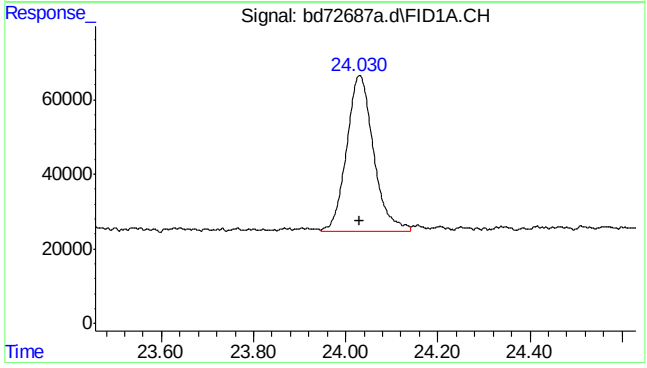
#13 ethylbenzene

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 1597064
Conc: 2.03 ppb



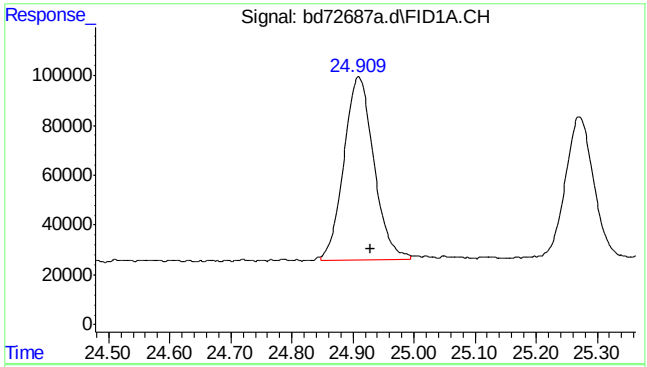
#14 m,p-xylene

R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 3360397
Conc: 4.11 ppb



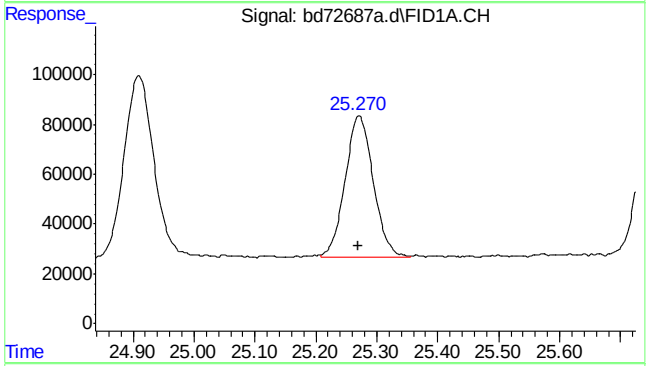
#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 1696702
Conc: 2.06 ppb



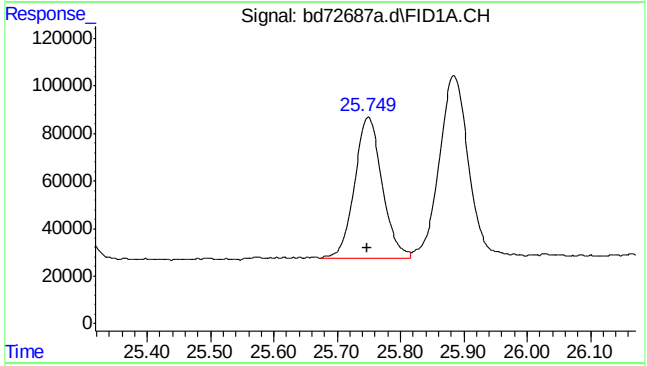
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 2500365
Conc: 2.91 ppb m



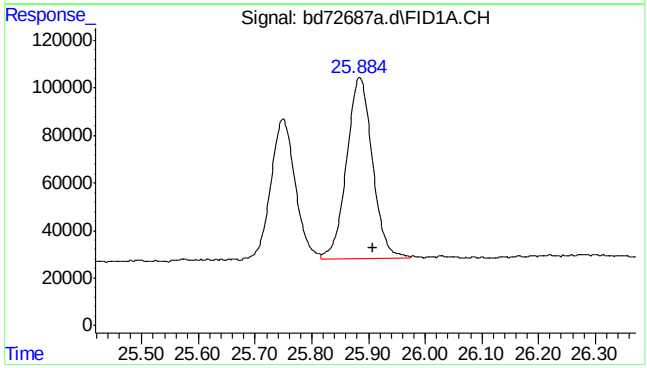
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 1822082
Conc: 1.89 ppb m



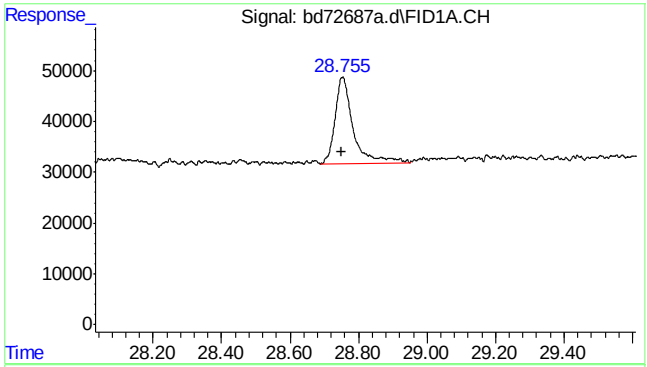
#18 1,2,4-trimethylbenzene

R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 1811882
Conc: 2.08 ppb m



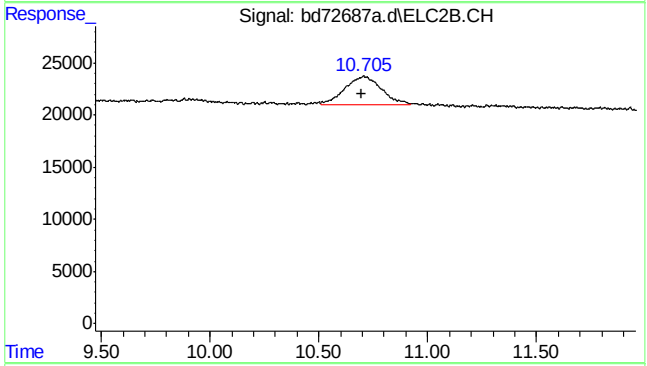
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 2416889
Conc: 2.64 ppb m



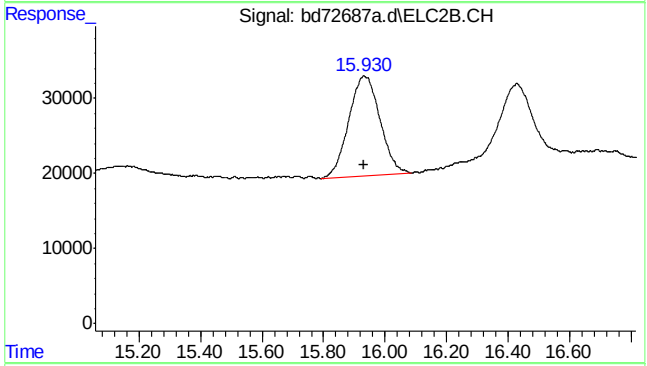
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 633669
Conc: 1.48 ppb m



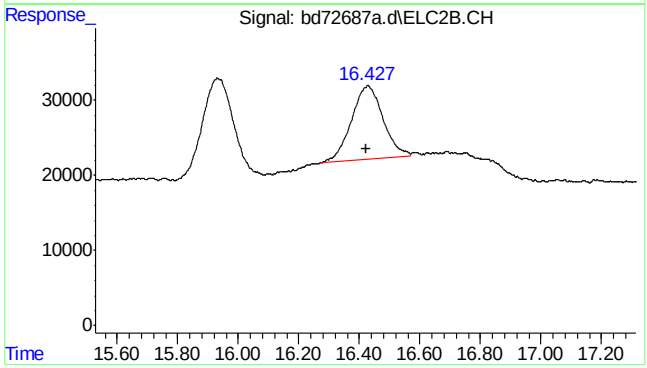
#23 mtbe #2

R.T.: 10.705 min
Delta R.T.: 0.009 min
Response: 319987
Conc: 2.04 ppb m



#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 943892
Conc: 2.03 ppb



#25 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 710788
Conc: 2.00 ppb m

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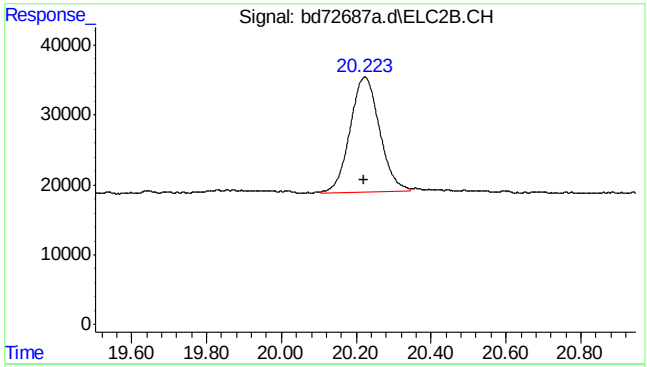
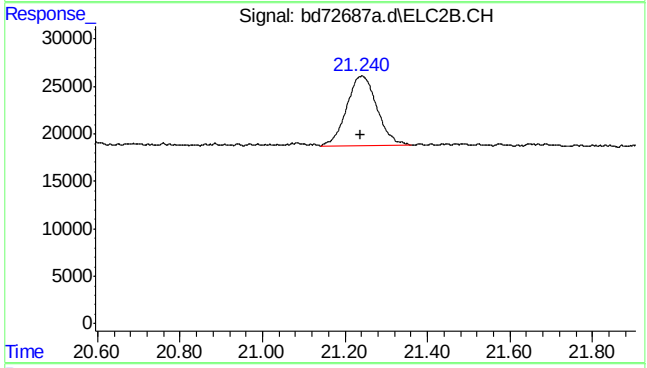


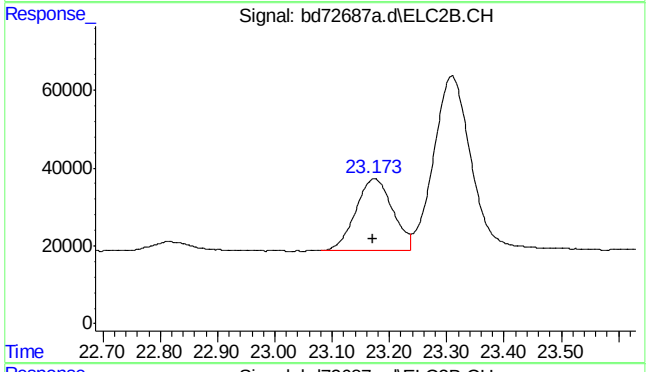
#26 toluene #2

R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 898559
Conc: 2.10 ppb



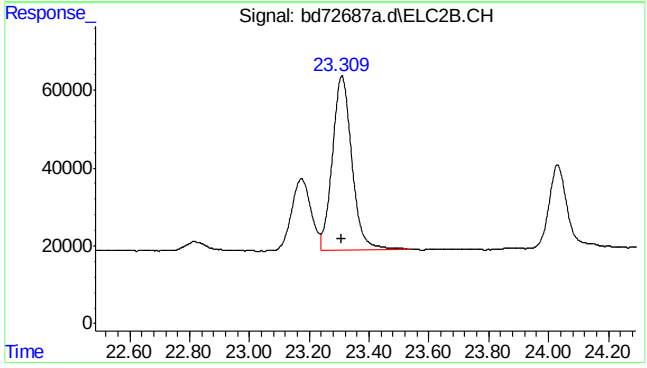
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 375383
Conc: 1.82 ppb



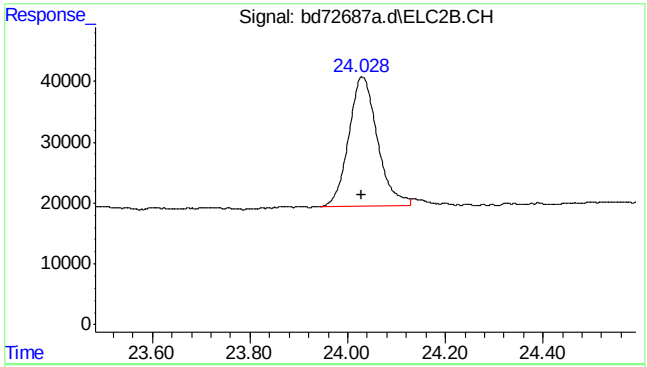
#28 ethylbenzene #2

R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 826337
Conc: 2.11 ppb



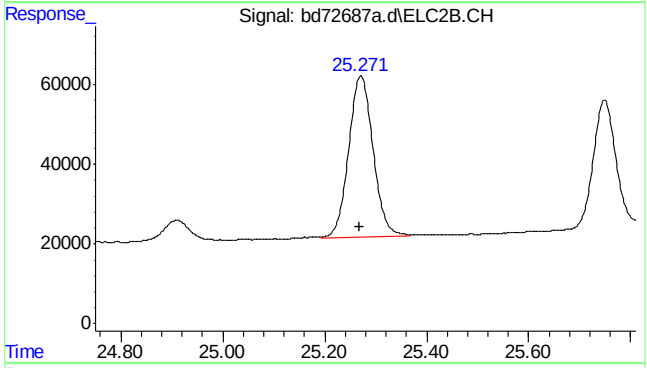
#29 m,p-xylene #2

R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 2027328
Conc: 4.25 ppb



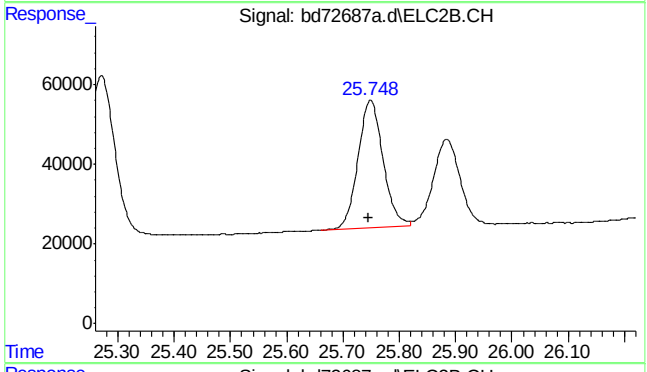
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 873175
Conc: 2.14 ppb m



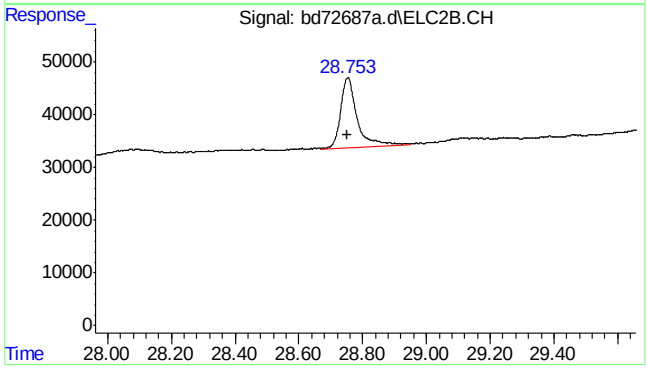
#31 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 1355890
Conc: 2.07 ppb



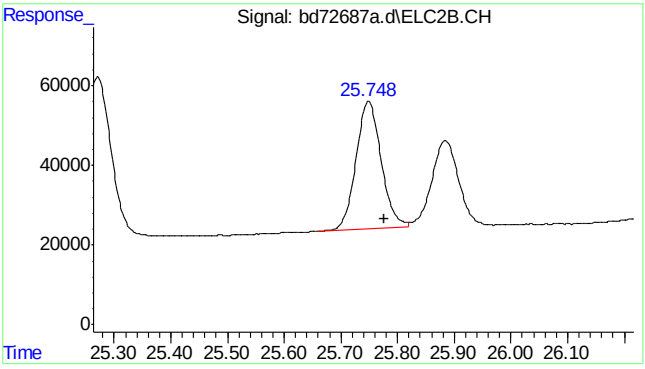
#32 1,2,4-trimethylbenzene #2

R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 998600
Conc: 2.17 ppb m



#33 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 472807
Conc: 1.54 ppb m



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	993959
Conc:	2.16 ppb m

75.17

7

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3574-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.417	690853	0.952 ppb	m
Spiked Amount 50.000		Recovery =	1.90%	
9) s 2,3,4-trifluorotoluene	21.238	520707	0.941 ppb	m
Spiked Amount 50.000		Recovery =	1.88%	
25) s fluorobenzene #2	16.428	373315	1.052 ppb	m
Spiked Amount 50.000		Recovery =	2.10%	
27) s 2,3,4-trifluorotoluen...	21.241	206659	1.027 ppb	m
Spiked Amount 50.000		Recovery =	2.05%	
Target Compounds				
1) h rt5.5-7	7.470	578714	1.013 ppb	m
2) h rt7/10	9.920	702081	1.064 ppb	m
3) mtbe	10.722f	270383	0.935 ppb	m
4) h rt10/13	15.200	721543	1.001 ppb	m
5) benzene	15.930	747683	0.970 ppb	m
8) toluene	20.219	761168	0.989 ppb	m
11) h rt20/25	22.840	1149887	1.343 ppb	m
13) ethylbenzene	23.175	793136	1.005 ppb	
14) m,p-xylene	23.311	1723067	2.092 ppb	
15) o-xylene	24.031	920010	1.108 ppb	
16) h decane	24.930	1632465	1.704 ppb	m
17) t 1,3,5-trimethylbenzene	25.273	946024	0.995 ppb	m
18) 1,2,4-trimethylbenzene	25.750	938216	1.067 ppb	m
19) h butylcyclohexane	25.908	1408346	1.425 ppb	m
20) naphthalene	28.755	268939	0.670 ppb	m
23) mtbe #2	10.682	146572	0.931 ppb	m
24) benzene #2	15.926	496928	1.064 ppb	m
26) toluene #2	20.226	470661	1.085 ppb	m
28) ethylbenzene #2	23.173	413616	1.042 ppb	
29) m,p-xylene #2	23.310	1007780	2.081 ppb	
30) o-xylene #2	24.033	483692	1.164 ppb	m
31) t 1,3,5-trimethylbenzen...	25.273	712865	1.078 ppb	
32) 1,2,4-trimethylbenzen...	25.749	530966	1.131 ppb	m
33) naphthalene #2	28.755	204485	0.707 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	530521	1.131 ppb	m

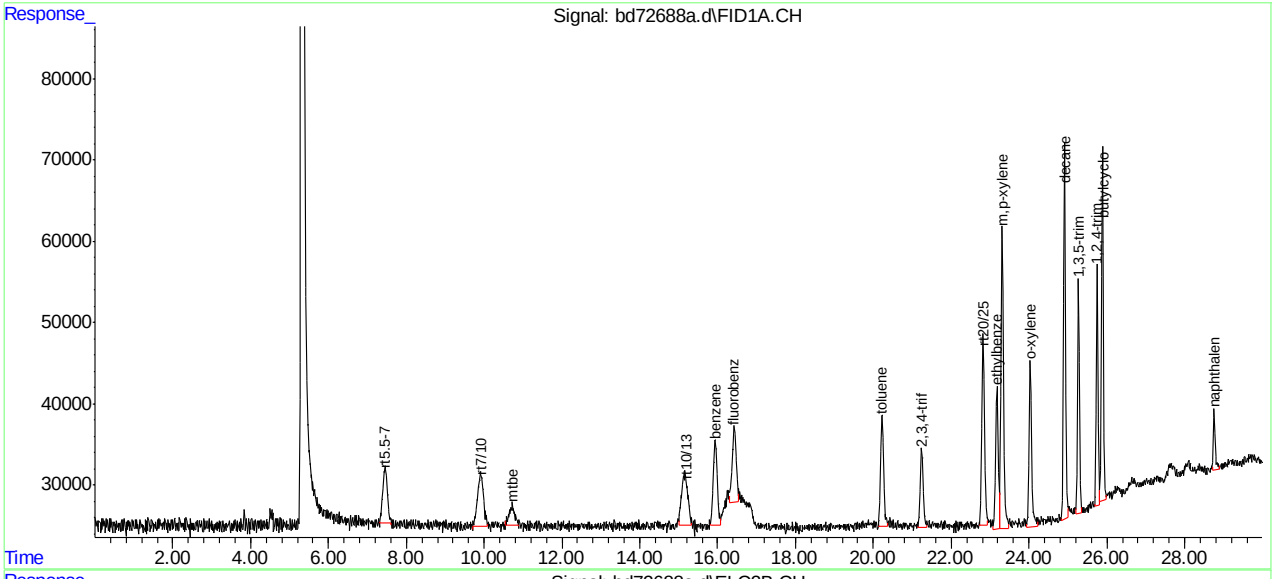
(f)=RT Delta > 1/2 Window (m)=manual int.

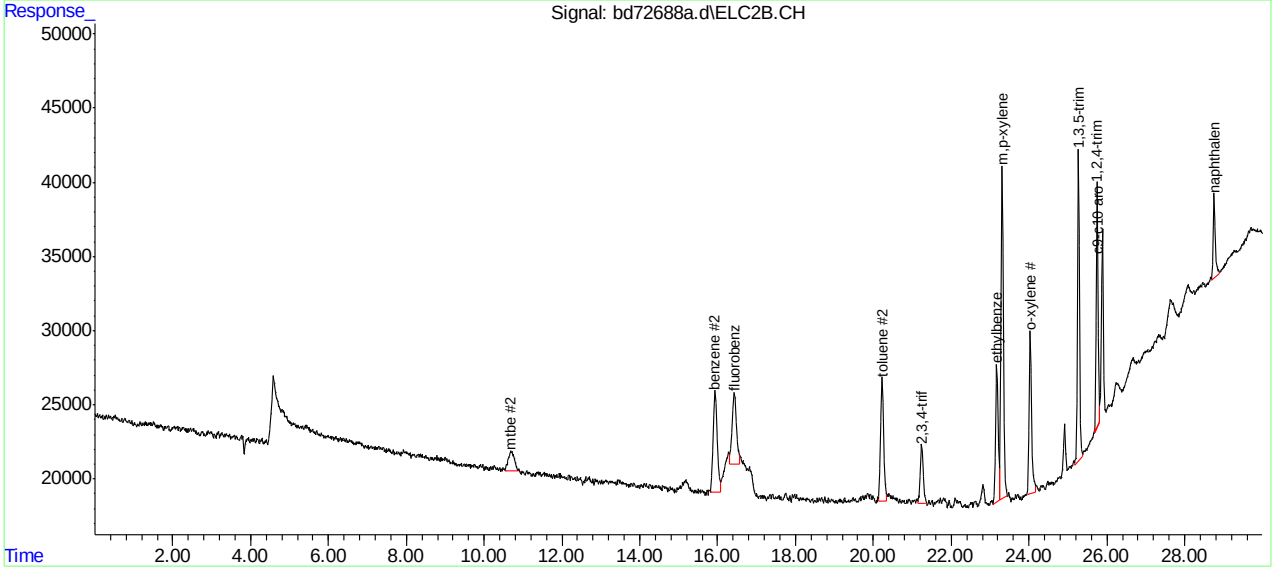
Quantitation Report (QT Reviewed)

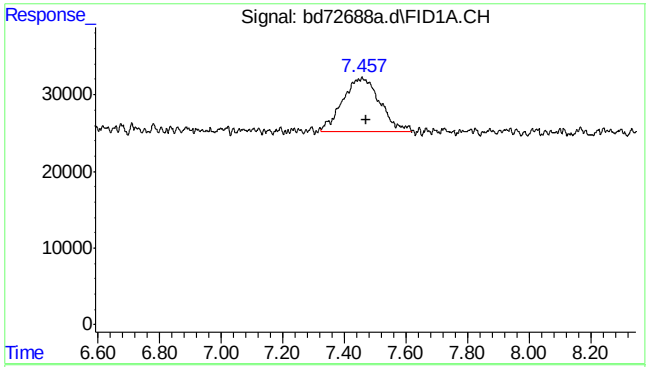
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3574-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

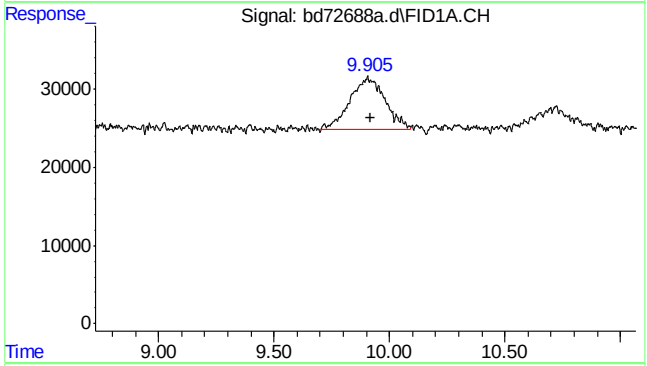






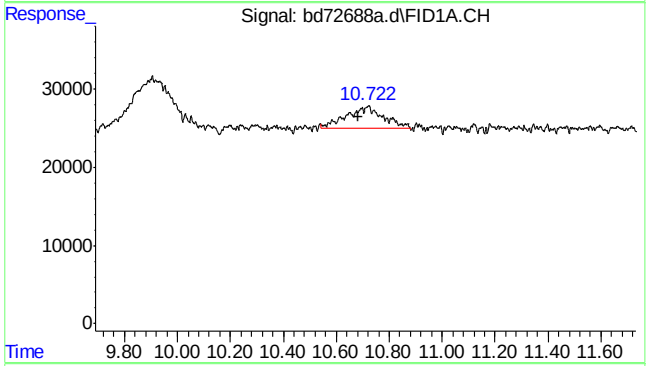
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 578714
Conc: 1.01 ppb m



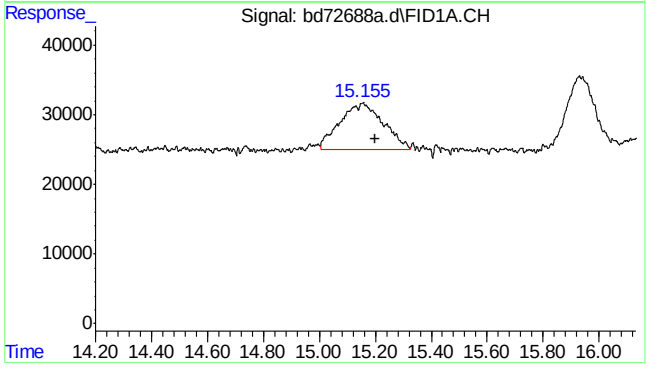
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 702081
Conc: 1.06 ppb m



#3 mtbe

R.T.: 10.722 min
Delta R.T.: 0.039 min
Response: 270383
Conc: 0.94 ppb m



#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 721543
Conc: 1.00 ppb m

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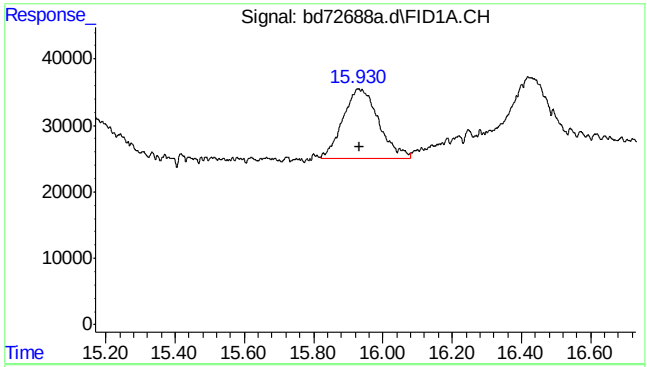
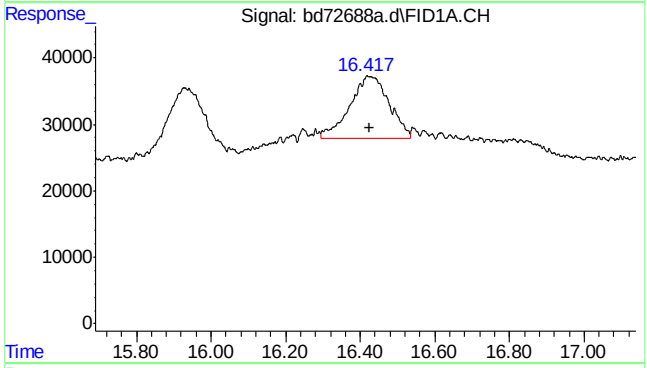


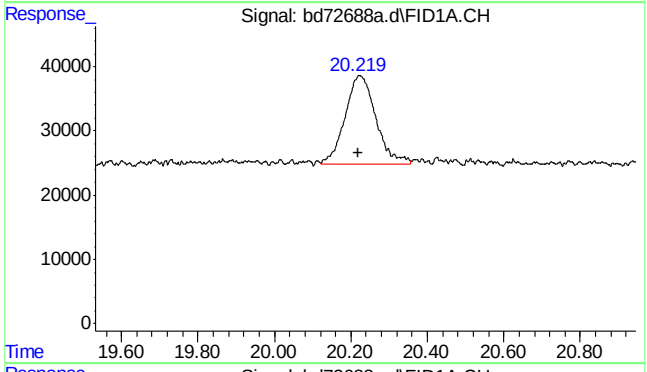
#5 benzene

R.T.: 15.930 min
Delta R.T.: -0.003 min
Response: 747683
Conc: 0.97 ppb m



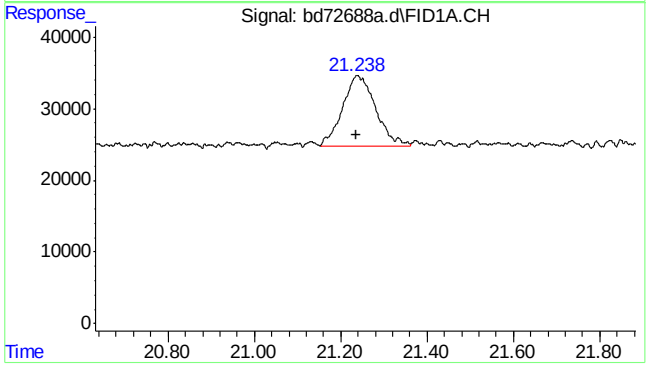
#6 fluorobenzene

R.T.: 16.417 min
Delta R.T.: -0.007 min
Response: 690853
Conc: 0.95 ppb m



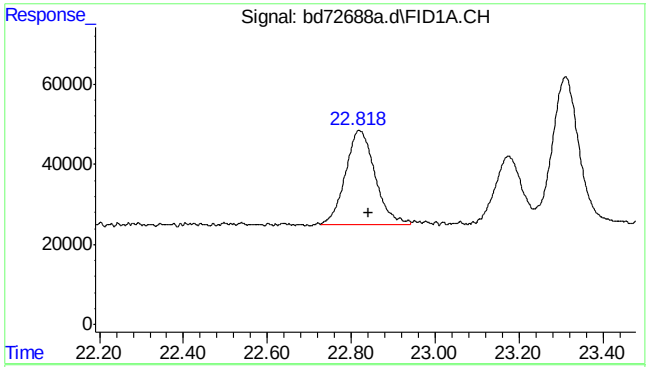
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 761168
Conc: 0.99 ppb m



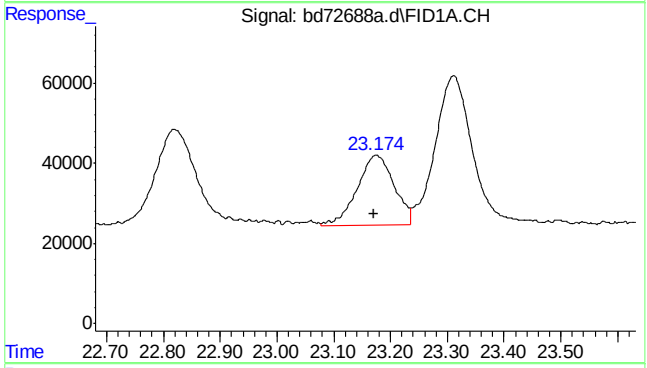
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 520707
Conc: 0.94 ppb m



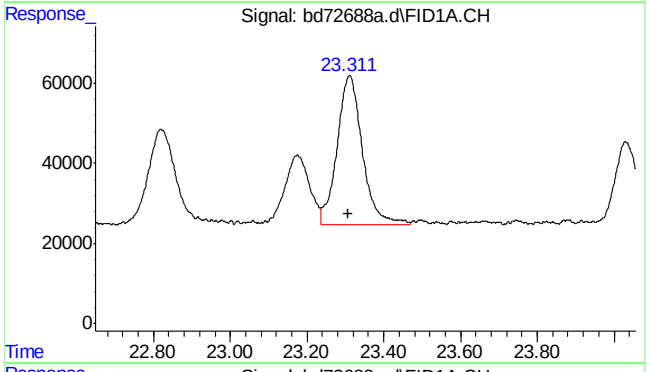
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 1149887
Conc: 1.34 ppb m



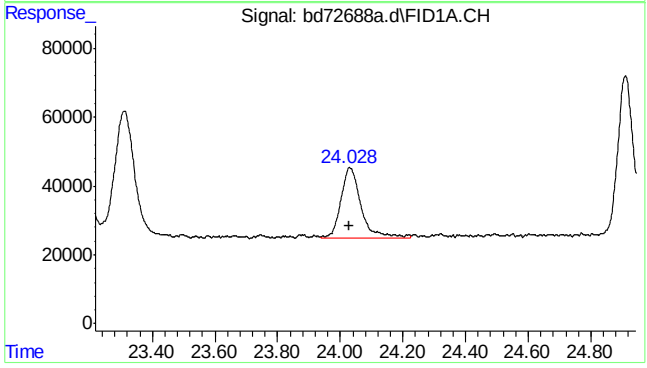
#13 ethylbenzene

R.T.: 23.175 min
Delta R.T.: 0.003 min
Response: 793136
Conc: 1.01 ppb



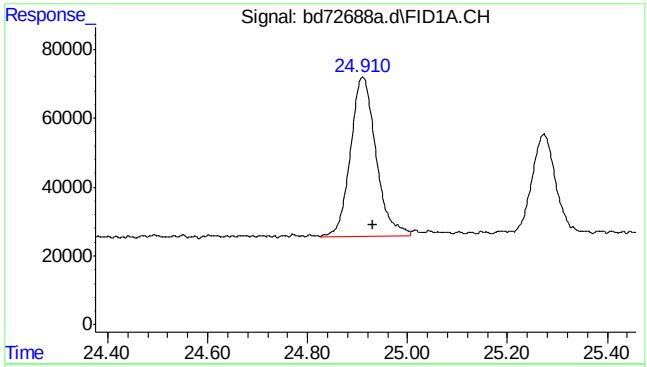
#14 m,p-xylene

R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1723067
Conc: 2.09 ppb



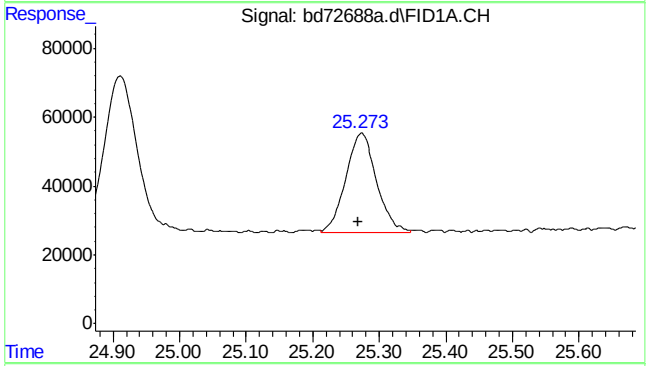
#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 920010
Conc: 1.11 ppb



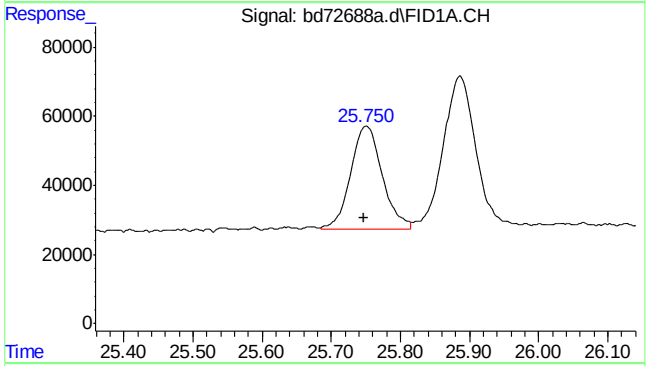
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 1632465
Conc: 1.70 ppb m



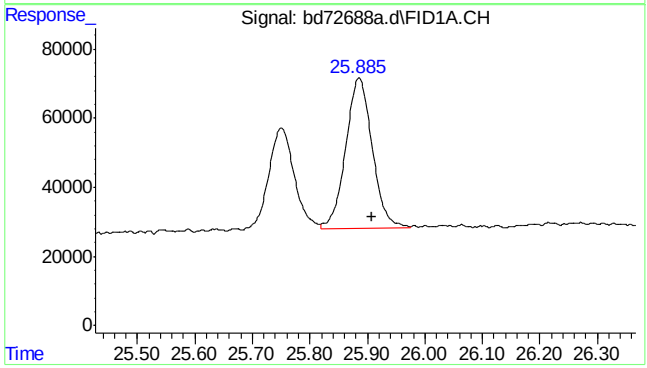
#17 1,3,5-trimethylbenzene

R.T.: 25.273 min
Delta R.T.: 0.004 min
Response: 946024
Conc: 1.00 ppb m



#18 1,2,4-trimethylbenzene

R.T.: 25.750 min
Delta R.T.: 0.003 min
Response: 938216
Conc: 1.07 ppb m



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 1408346
Conc: 1.42 ppb m

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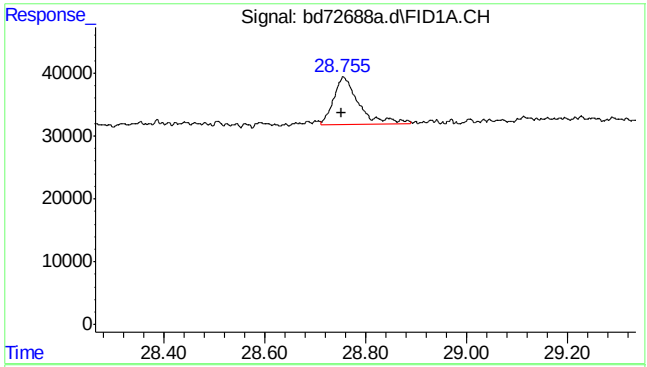
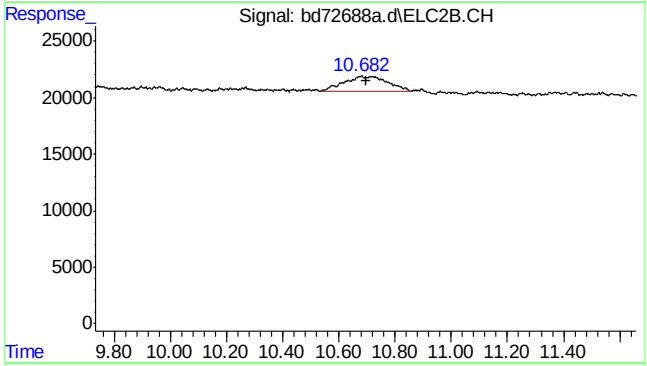


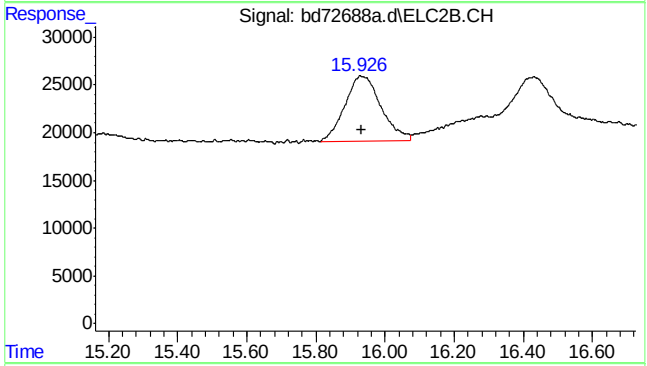
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 268939
Conc: 0.67 ppb m



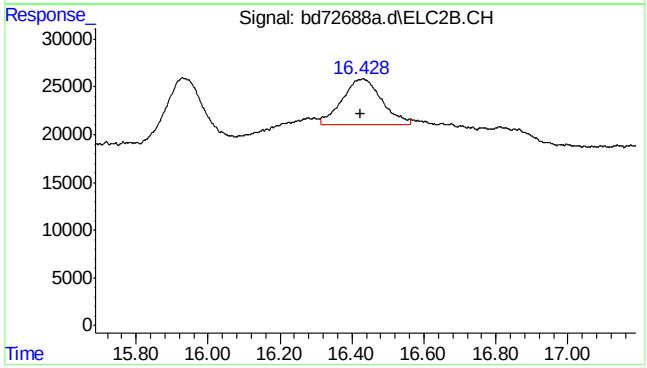
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 146572
Conc: 0.93 ppb m



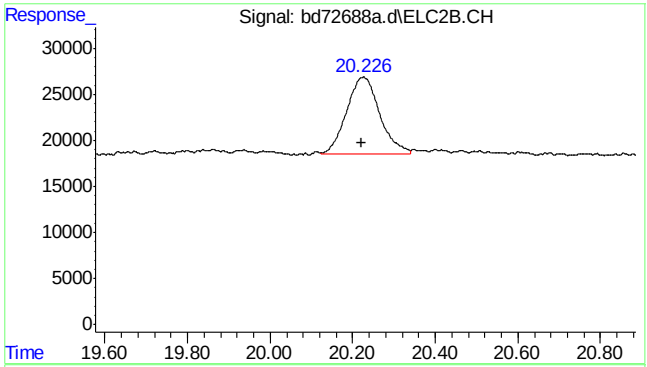
#24 benzene #2

R.T.: 15.926 min
Delta R.T.: -0.006 min
Response: 496928
Conc: 1.06 ppb m



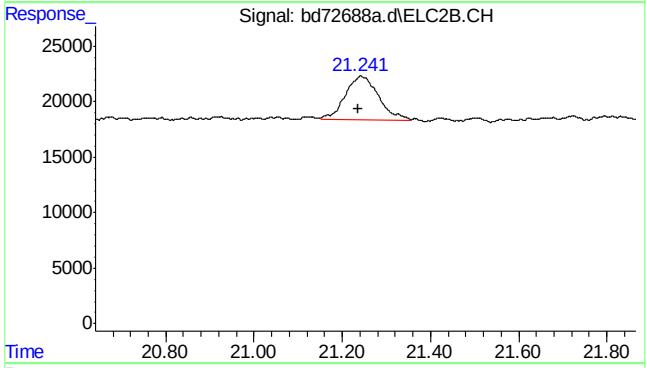
#25 fluorobenzene #2

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 373315
Conc: 1.05 ppb m



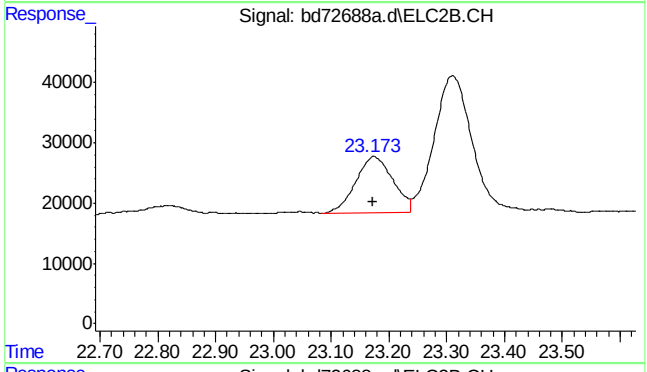
#26 toluene #2

R.T.: 20.226 min
Delta R.T.: 0.005 min
Response: 470661
Conc: 1.08 ppb m



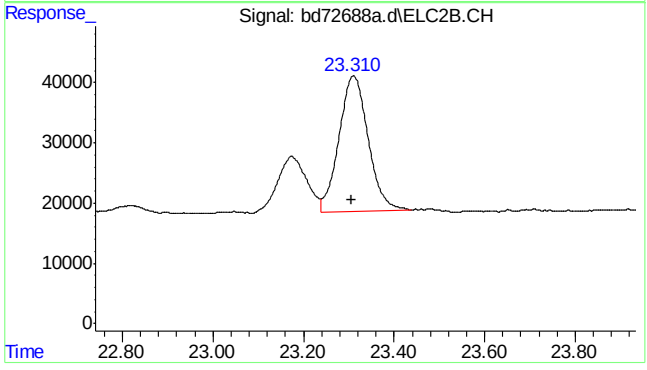
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 206659
Conc: 1.03 ppb m



#28 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 413616
Conc: 1.04 ppb



#29 m,p-xylene #2

R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 1007780
Conc: 2.08 ppb

7.5.18

7

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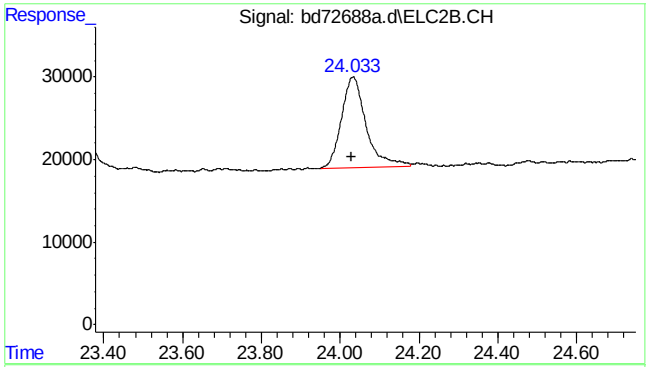
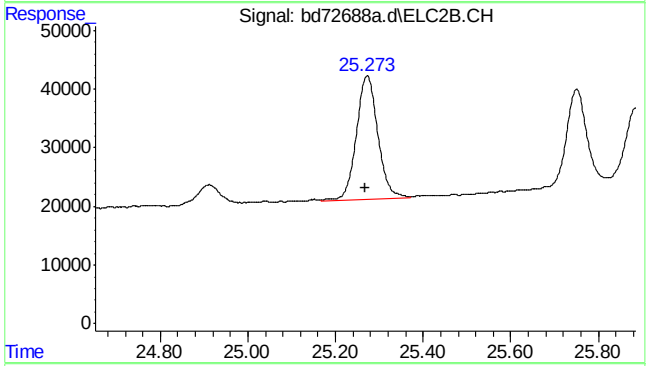


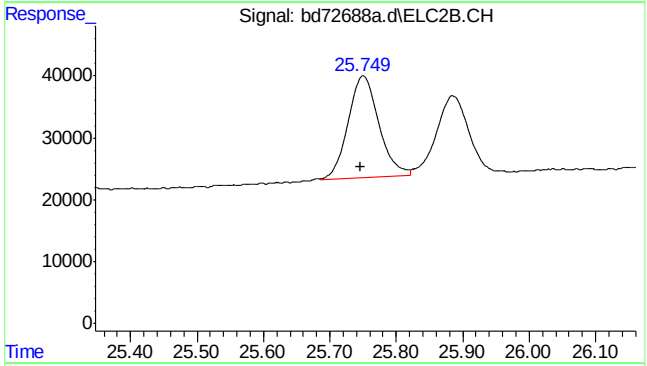
#30 o-xylene #2

R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 483692
Conc: 1.16 ppb m



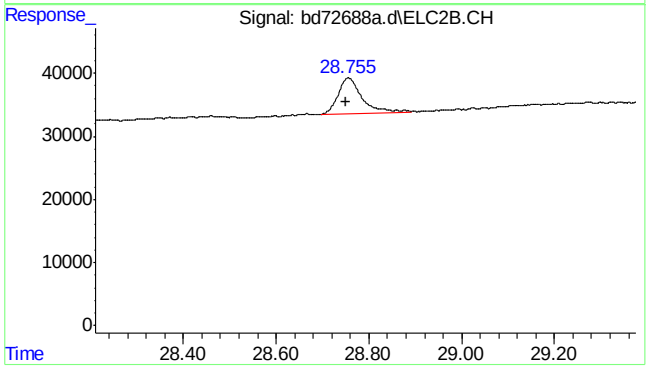
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 712865
Conc: 1.08 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 530966
Conc: 1.13 ppb m



#33 naphthalene #2

R.T.: 28.755 min
Delta R.T.: 0.005 min
Response: 204485
Conc: 0.71 ppb m

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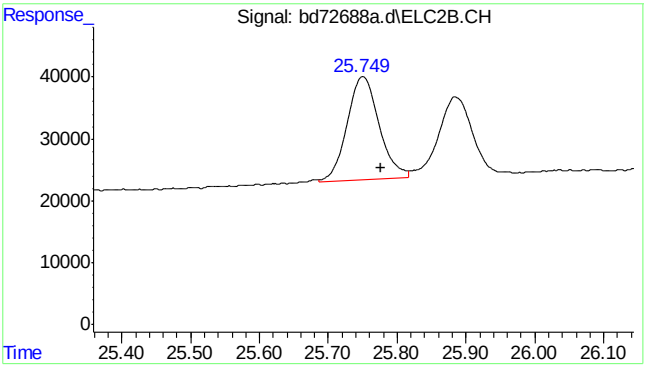

#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	530521
Conc:	1.13 ppb m

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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

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

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

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.425	35571927	52.281 ppb	m
Spiked Amount 50.000		Recovery	= 104.56%	
6) s 2,3,4-trifluorotoluene	21.239	28429901	54.567 ppb	
Spiked Amount 50.000		Recovery	= 109.13%	
16) s fluorobenzene #2	16.426	15798777	46.569 ppb	
Spiked Amount 50.000		Recovery	= 93.14%	
18) s 2,3,4-trifluorotoluen...	21.238	9231850	46.896 ppb	
Spiked Amount 50.000		Recovery	= 93.79%	
Target Compounds				
1) h rt5.5-7	7.470	32771312	53.136 ppb	m
2) h rt7/10	9.920	37519205	60.834 ppb	m
3) h rt10/13	15.200	36582580	59.315 ppb	m
8) h rt20/25	22.840	38978420	48.709 ppb	m
10) h decane	24.930	37220553	46.513 ppb	
11) h butylcyclohexane	25.908	41168976	51.447 ppb	
14) mtbe #2	10.683	8283695	53.752 ppb	m
15) benzene #2	15.932	24916343	51.522 ppb	
17) toluene #2	20.222	23146349	51.127 ppb	
19) ethylbenzene #2	23.173	20751208	50.002 ppb	
20) m,p-xylene #2	23.309	49993765	100.300 ppb	
21) o-xylene #2	24.030	21057643	48.432 ppb	
22) t 1,3,5-trimethylbenzen...	25.271	32008982	47.701 ppb	
23) 1,2,4-trimethylbenzen...	25.748	24040884	48.876 ppb	
24) naphthalene #2	28.751	19947215	55.260 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	23978907	48.772 ppb	m

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

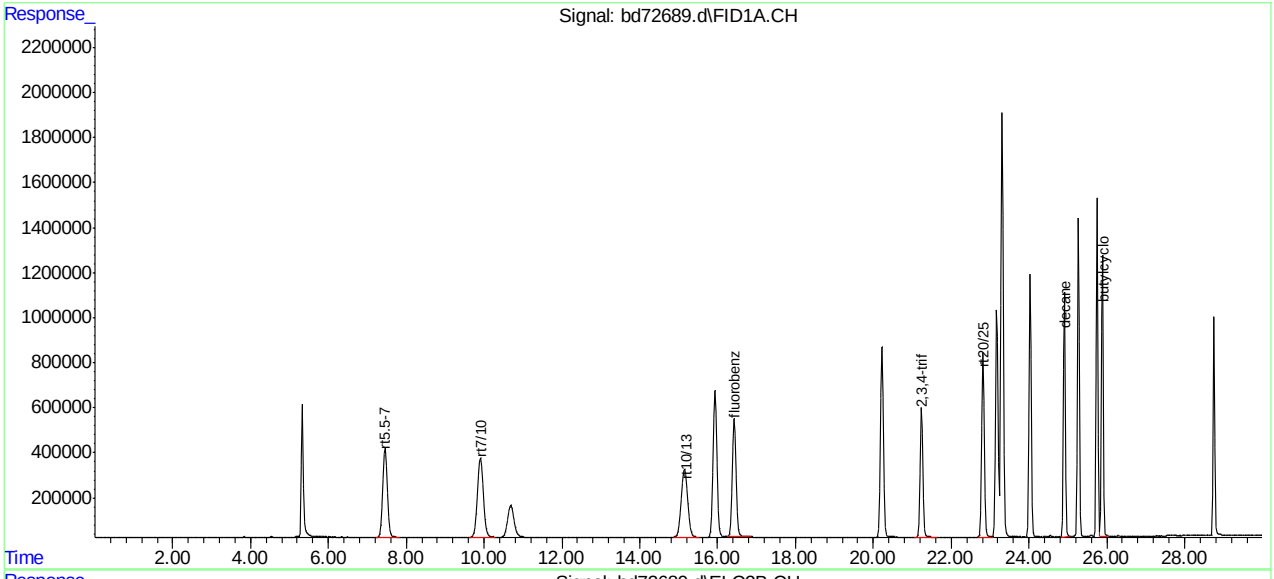
SGS ACCUTEST MC45969

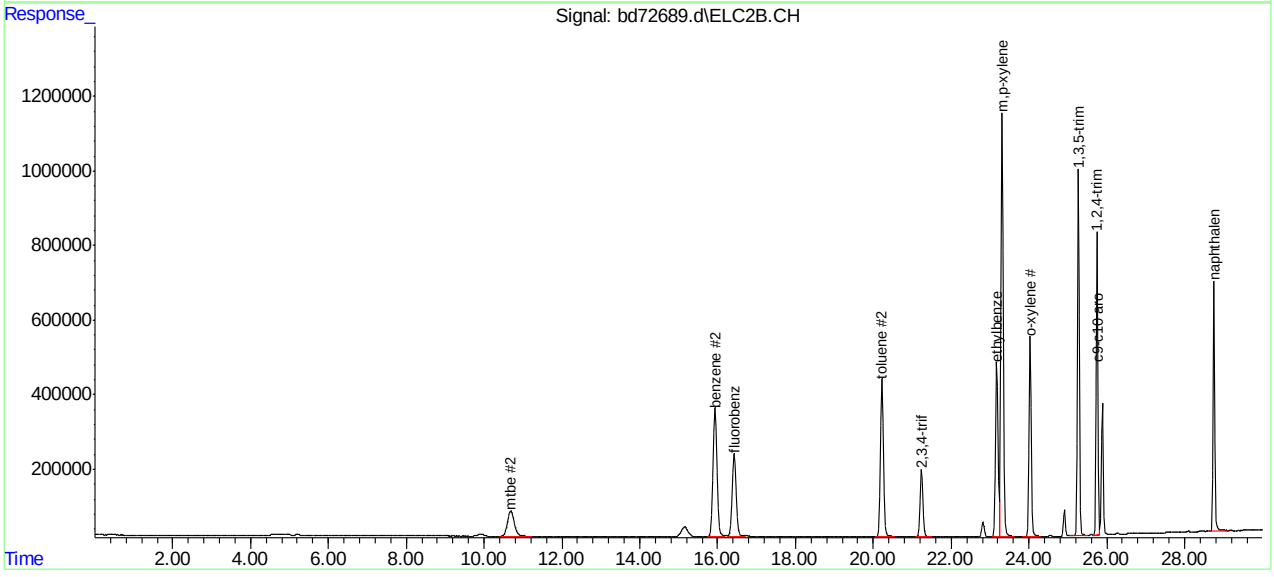
Quantitation Report (QT Reviewed)

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

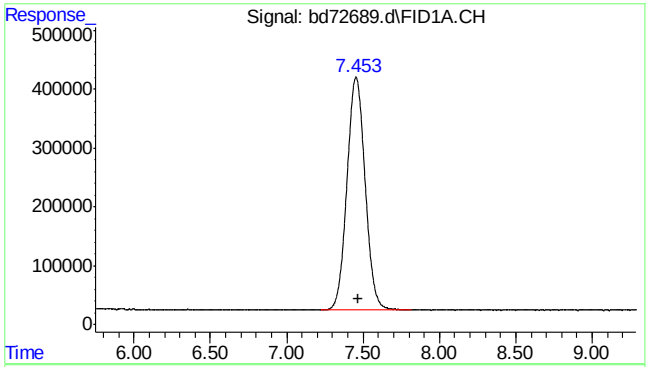
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:52:11 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation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

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



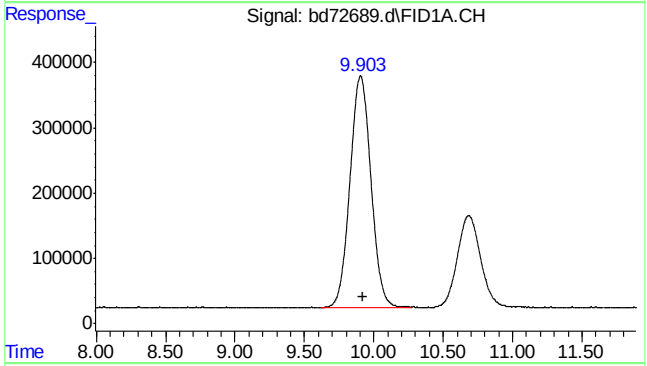


SGS ACCUTEST MC45969



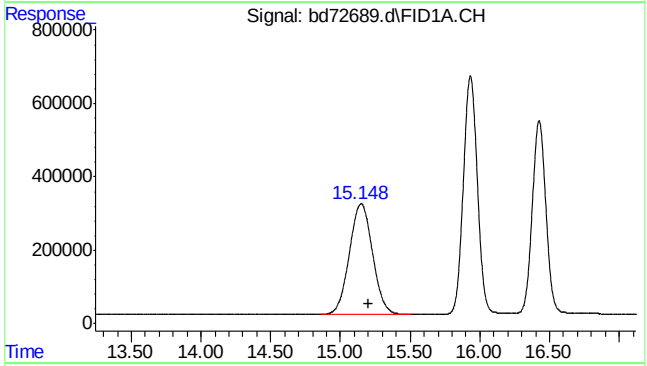
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 32771312
Conc: 53.14 ppb m



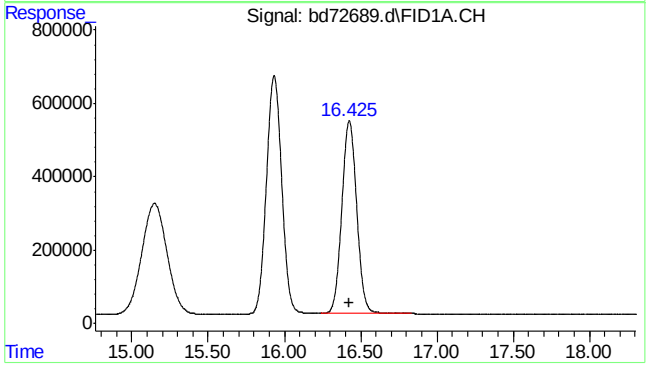
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 37519205
Conc: 60.83 ppb m



#3 rt10/13

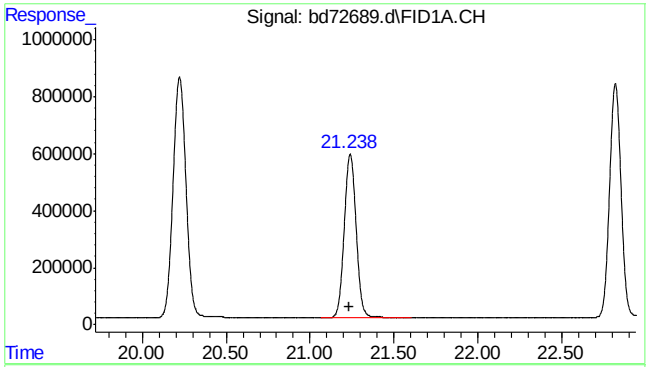
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 36582580
Conc: 59.32 ppb m



#4 fluorobenzene

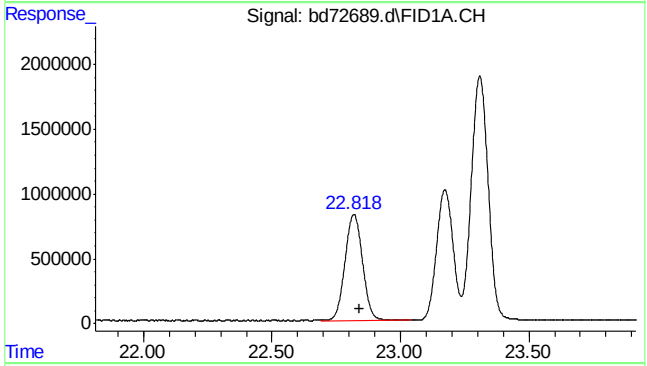
R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 35571927
Conc: 52.28 ppb m

SGS ACCUTEST MC45969



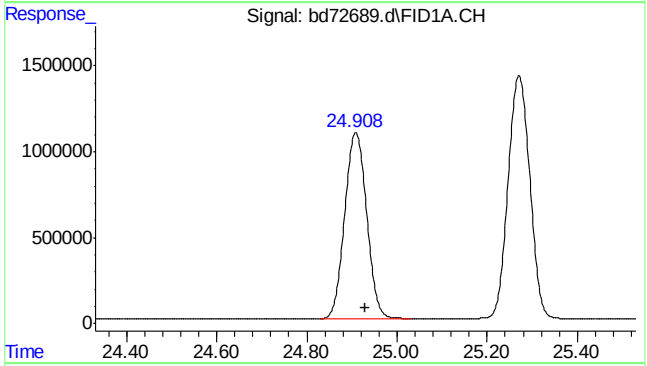
#6 2,3,4-trifluorotoluene

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 28429901
Conc: 54.57 ppb



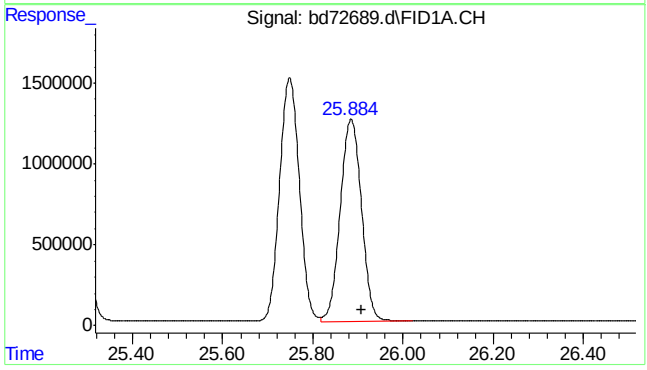
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38978420
Conc: 48.71 ppb m



#10 decane

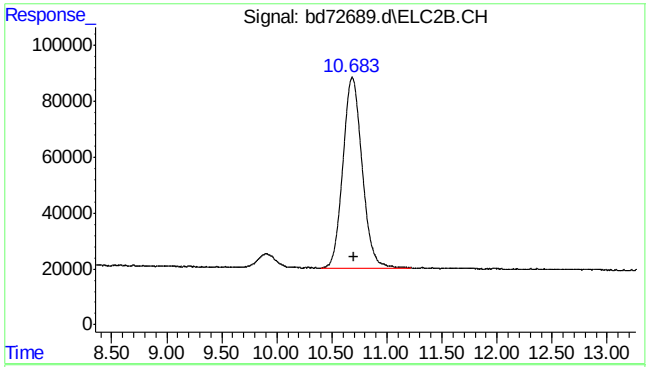
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37220553
Conc: 46.51 ppb



#11 butylcyclohexane

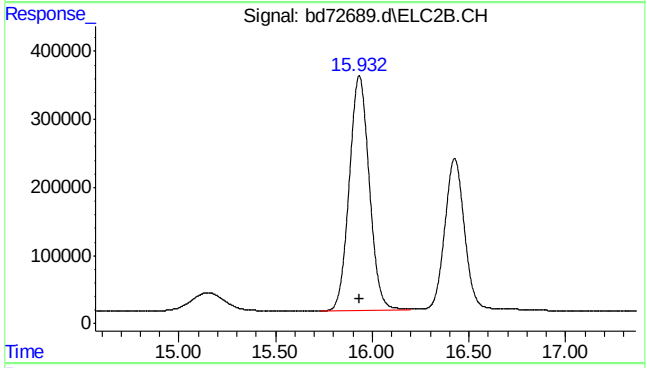
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41168976
Conc: 51.45 ppb

SGS ACCUTEST MC45969



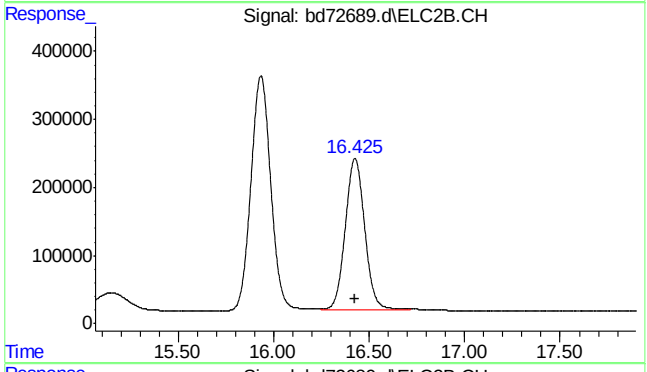
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 8283695
Conc: 53.75 ppb m



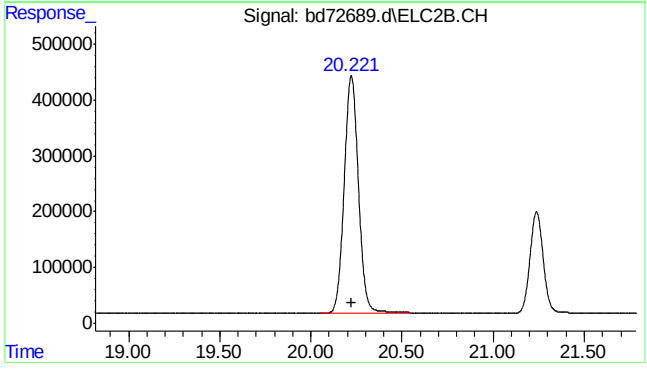
#15 benzene #2

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 24916343
Conc: 51.52 ppb



#16 fluorobenzene #2

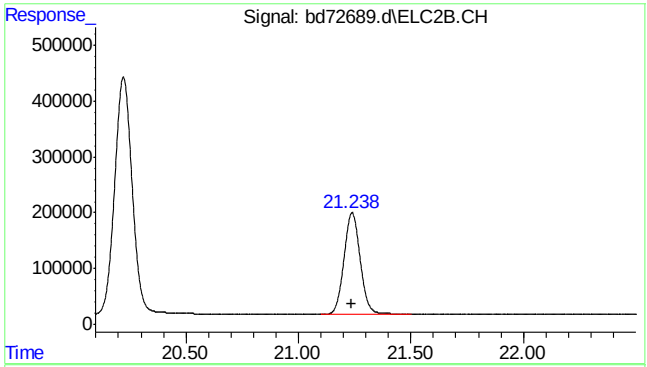
R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 15798777
Conc: 46.57 ppb



#17 toluene #2

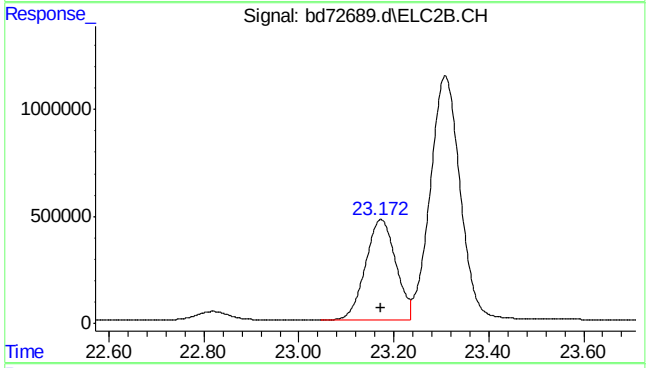
R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 23146349
Conc: 51.13 ppb

SGS ACCUTEST MC45969



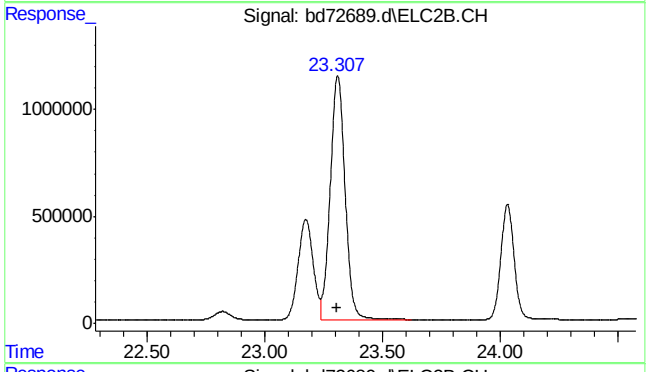
#18 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.002 min
Response: 9231850
Conc: 46.90 ppb



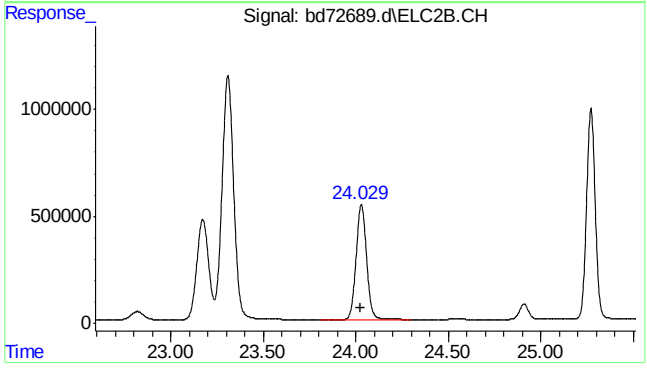
#19 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.000 min
Response: 20751208
Conc: 50.00 ppb



#20 m,p-xylene #2

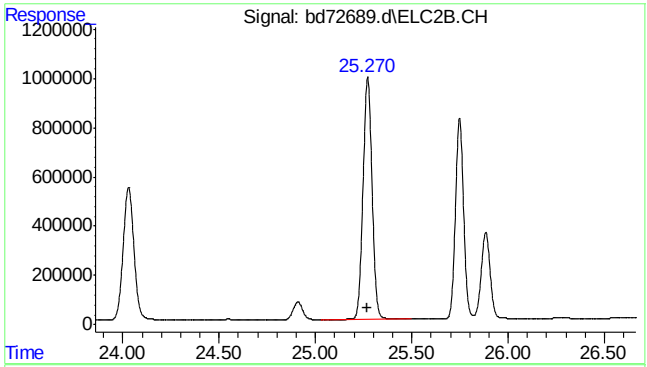
R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 49993765
Conc: 100.30 ppb



#21 o-xylene #2

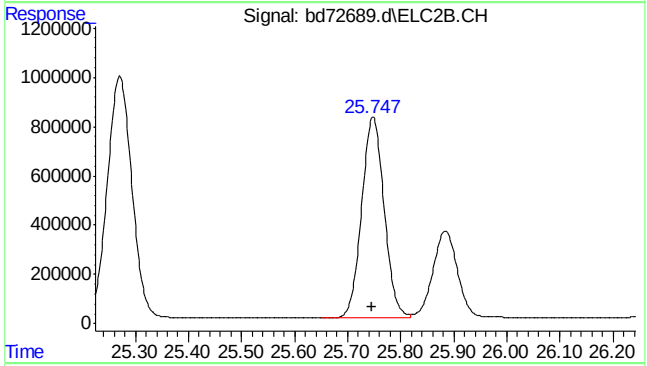
R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 21057643
Conc: 48.43 ppb

SGS ACCUTEST MC45969



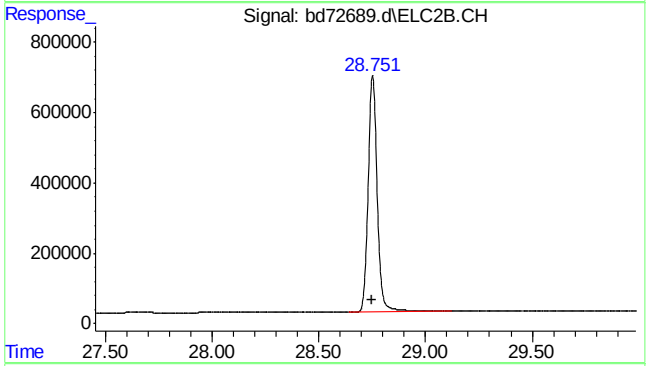
#22 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 32008982
Conc: 47.70 ppb



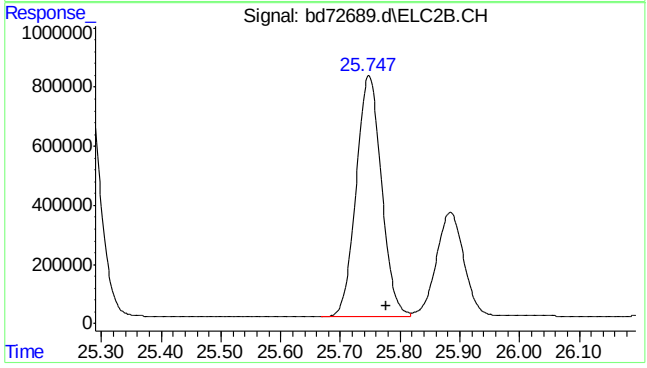
#23 1,2,4-trimethylbenzene #2

R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 24040884
Conc: 48.88 ppb



#24 naphthalene #2

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 19947215
Conc: 55.26 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 23978907
Conc: 48.77 ppb m

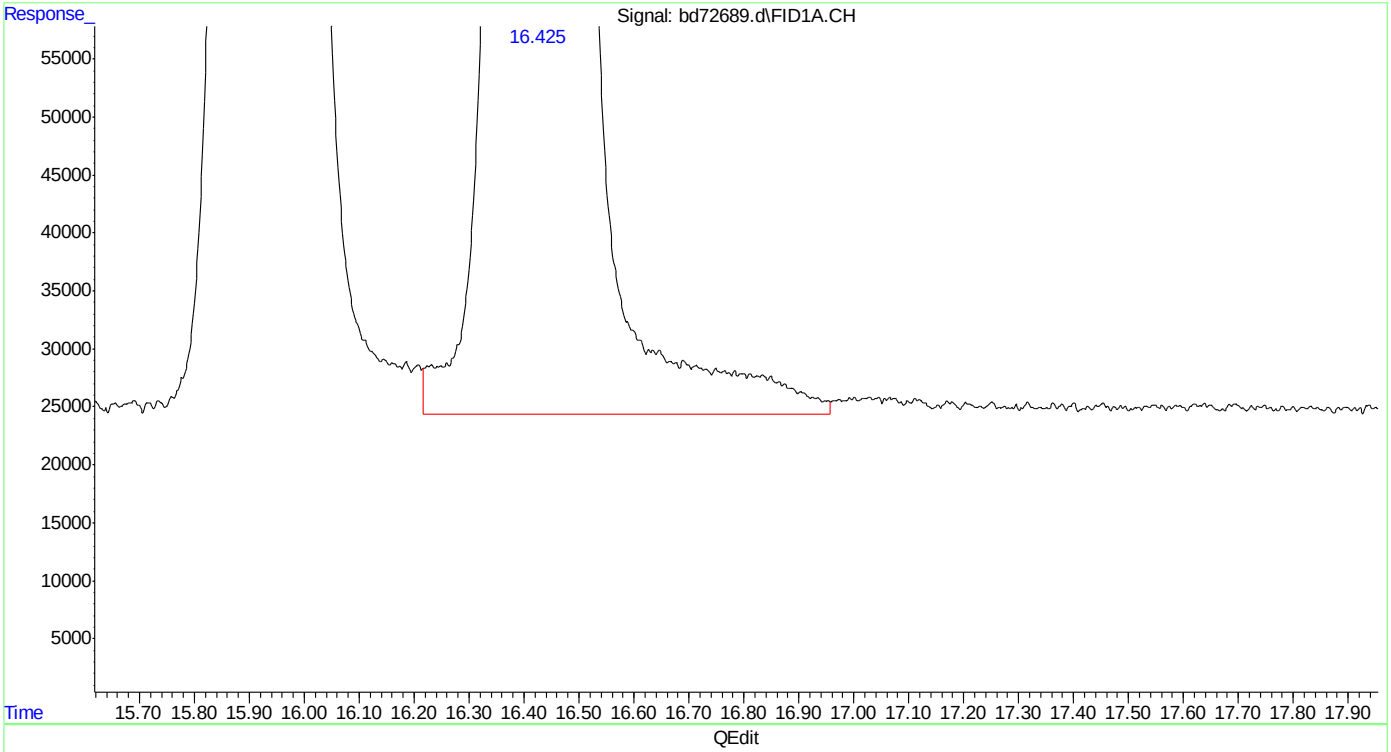
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(4) fluorobenzene (s)
16.426min 54.445 ppb
response 37044915

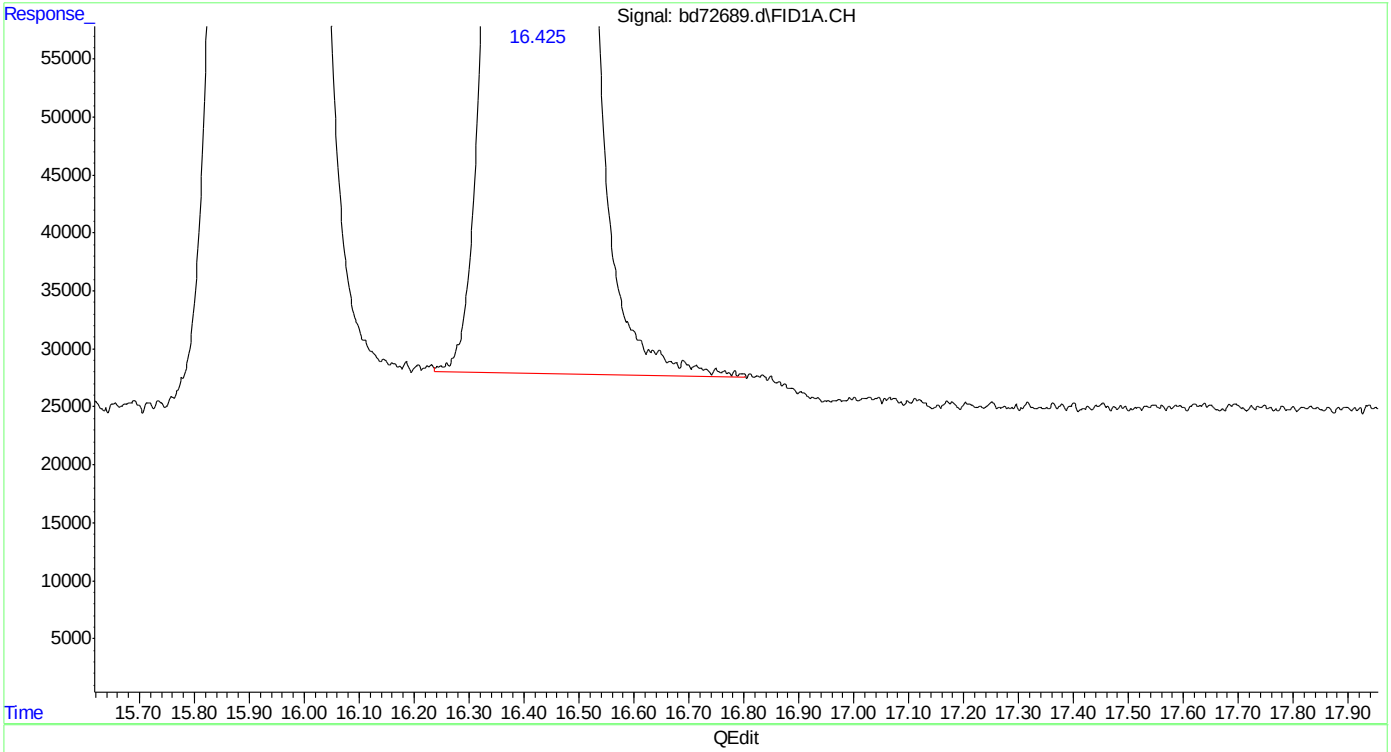
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:25 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(4) fluorobenzene (s)
16.425min 52.341 ppb m
response 35613038

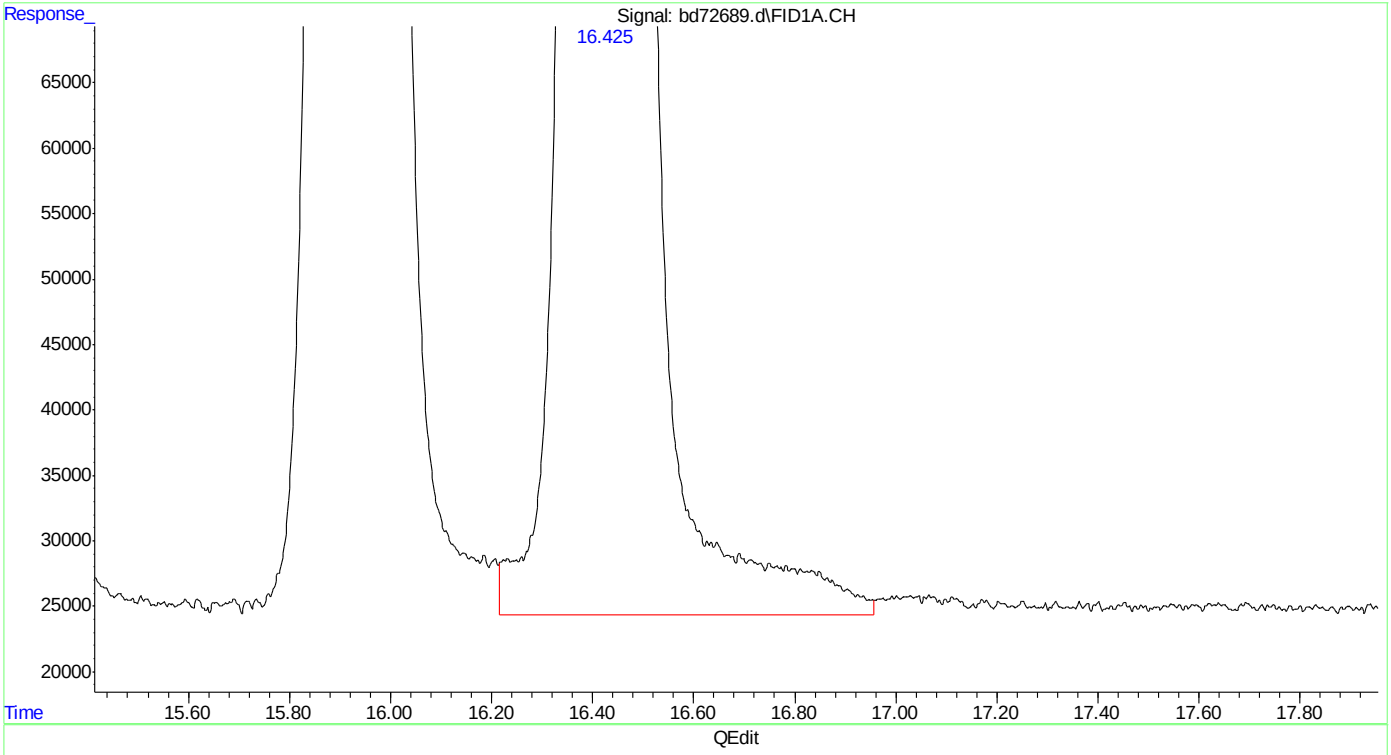
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:30 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(4) fluorobenzene (s)
16.426min 54.445 ppb
response 37044915

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:22 2016

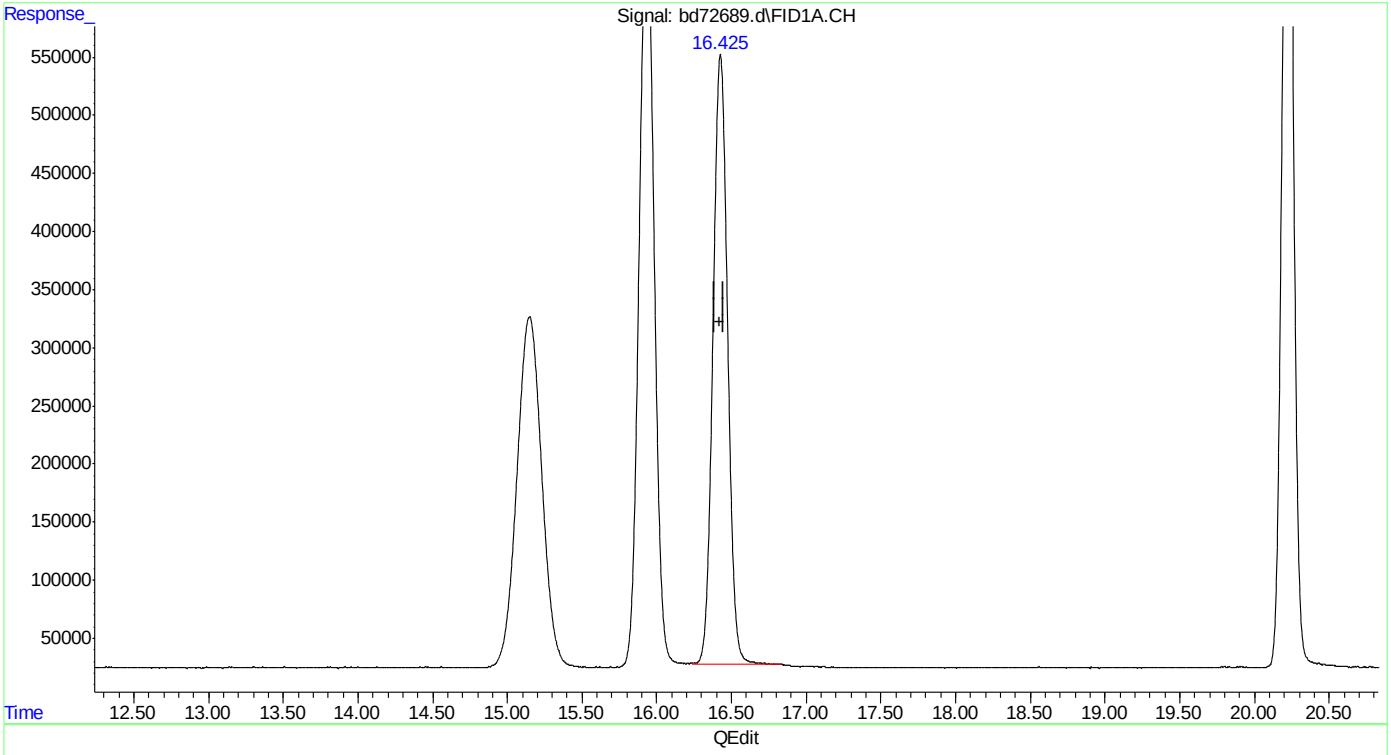
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(4) fluorobenzene (s)
16.425min 52.281 ppb m
response 35571927

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:36 2016

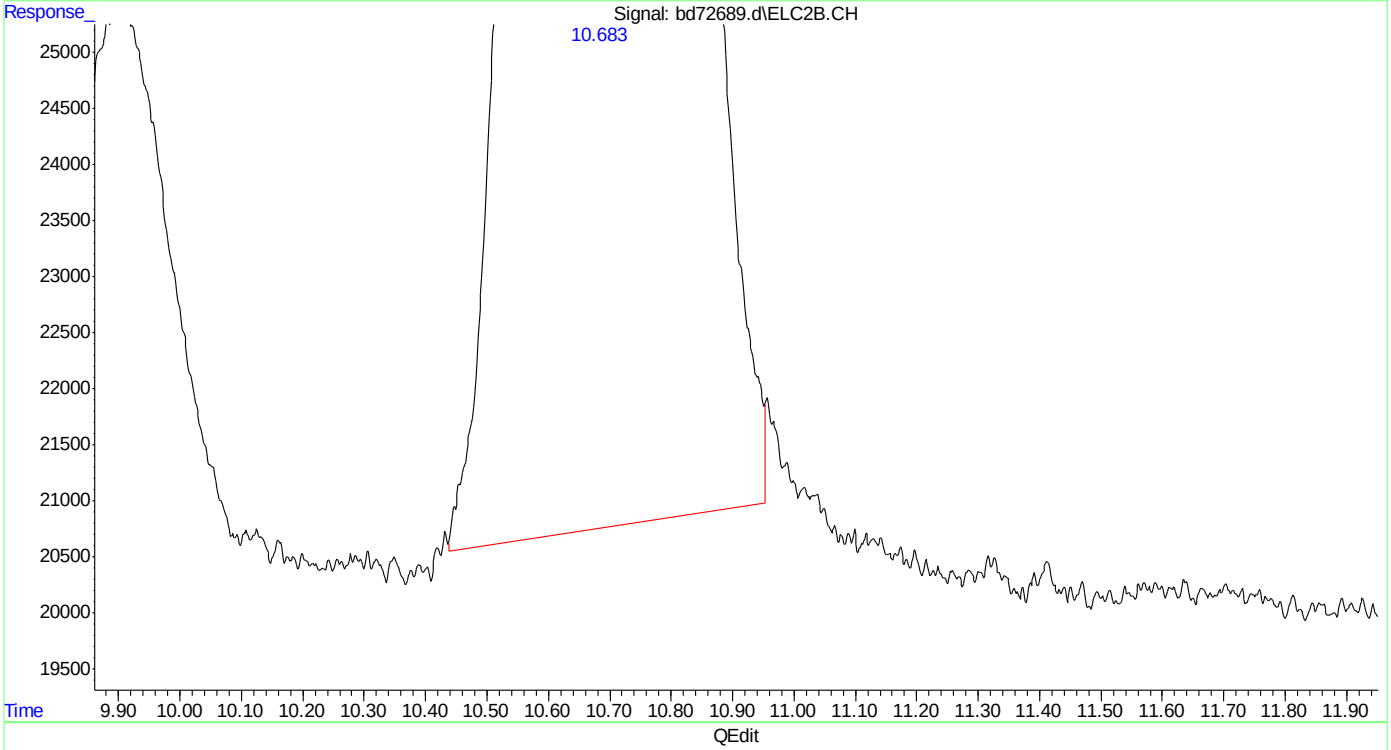
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

10.684min 52.354 ppb

response 8068180

(+) = Expected Retention Time

bd160219vph.M Fri Feb 19 13:51:50 2016

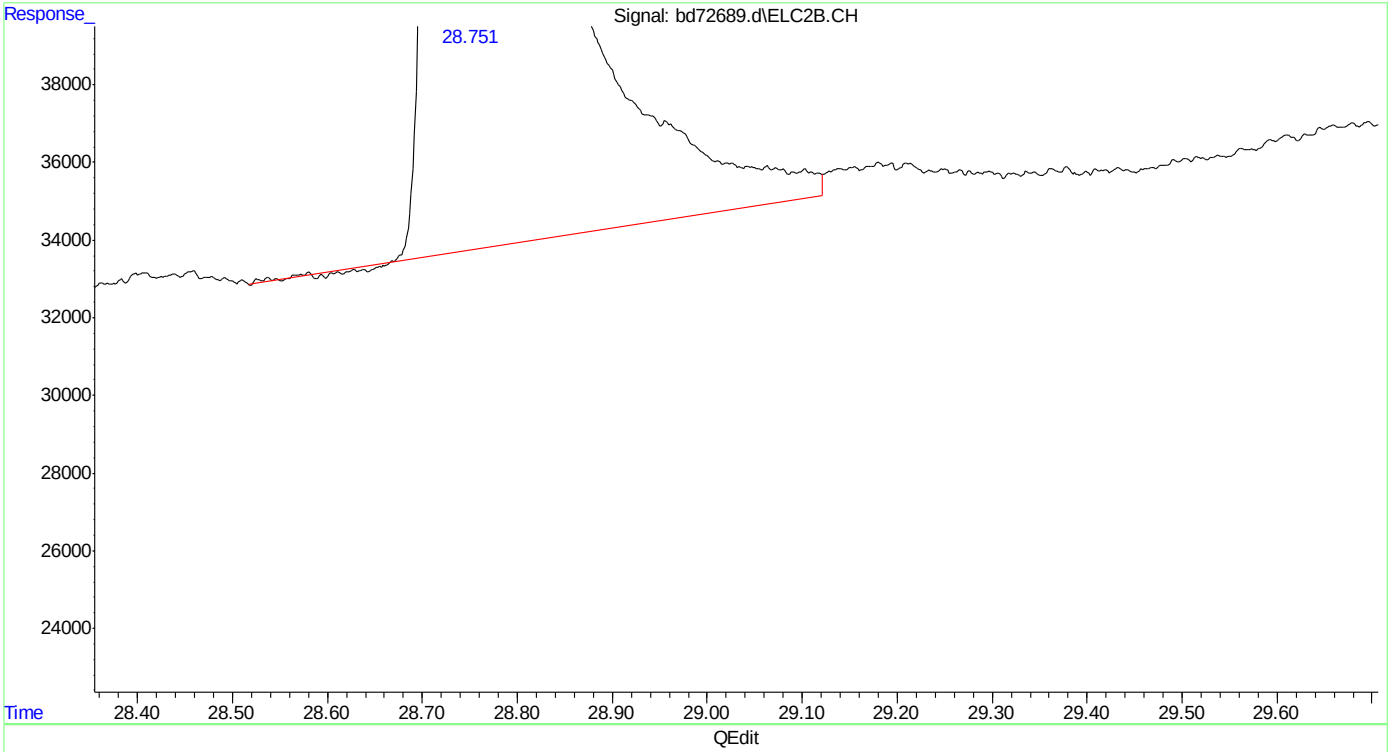
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.752min 55.237 ppb
response 19938925

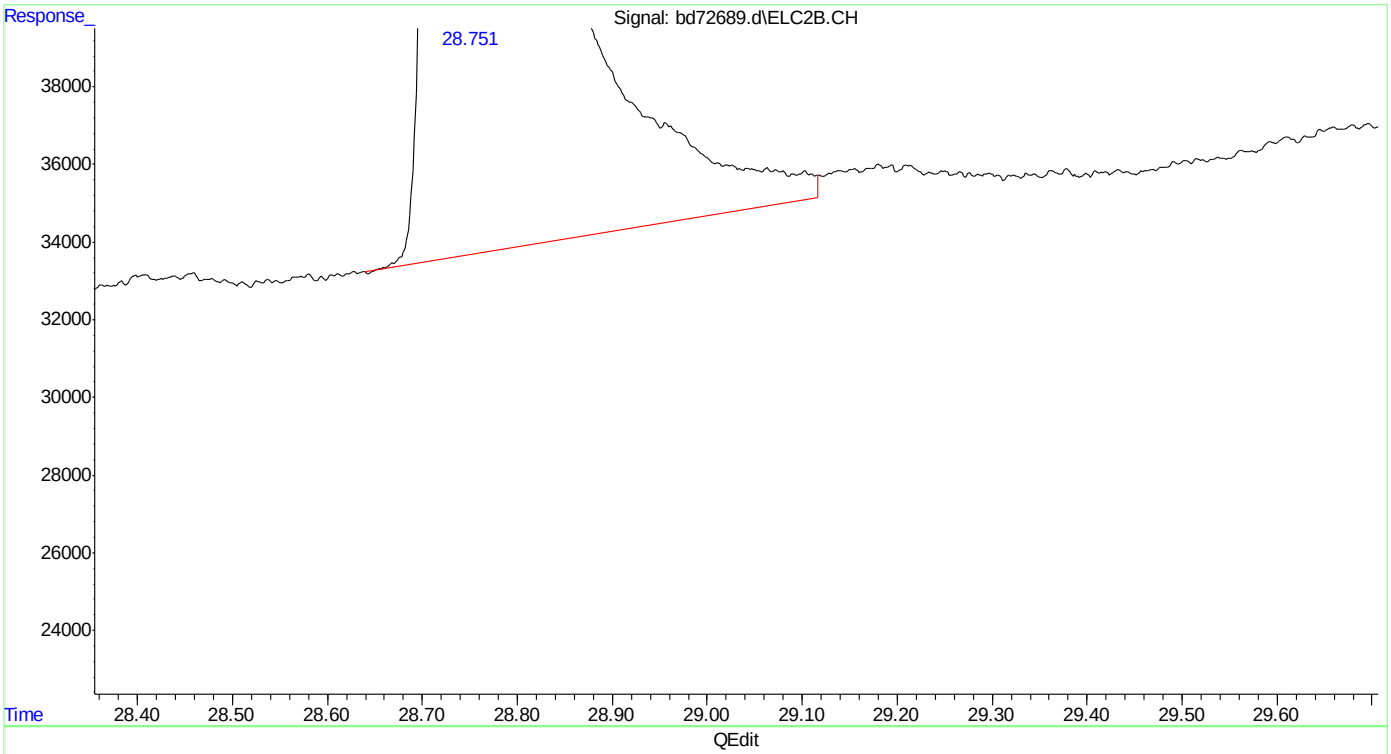
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:52:02 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.751min 55.260 ppb m
response 19947215

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:52:07 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3574-50 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 11:31:41 2016
Quant Method : C:\msdchem\1\methods\bd160219v8021btxmn.M
Quant Title : vph - master
QLast Update : Mon Feb 22 11:29:19 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					
4) s fluorobenzene #2	16.426	15798777	46.569	ppb	
Spiked Amount 50.000		Recovery =	93.14%		
6) s 2,3,4-trifluorotoluen...	21.238	9231850	46.896	ppb	
Spiked Amount 50.000		Recovery =	93.79%		
Target Compounds					
2) mtbe #2	10.683	8306963	53.903	ppb	m
3) benzene #2	15.932	24916343	51.522	ppb	
5) toluene #2	20.222	23146349	51.127	ppb	
7) ethylbenzene #2	23.173	20751208	50.002	ppb	
8) m,p-xylene #2	23.309	49993765	100.300	ppb	
9) o-xylene #2	24.030	21057643	48.432	ppb	
10) t 1,3,5-trimethylbenzen...	25.271	32008982	47.701	ppb	
11) 1,2,4-trimethylbenzen...	25.748	24040884	48.876	ppb	
12) naphthalene #2	28.751	19953166	55.277	ppb	m

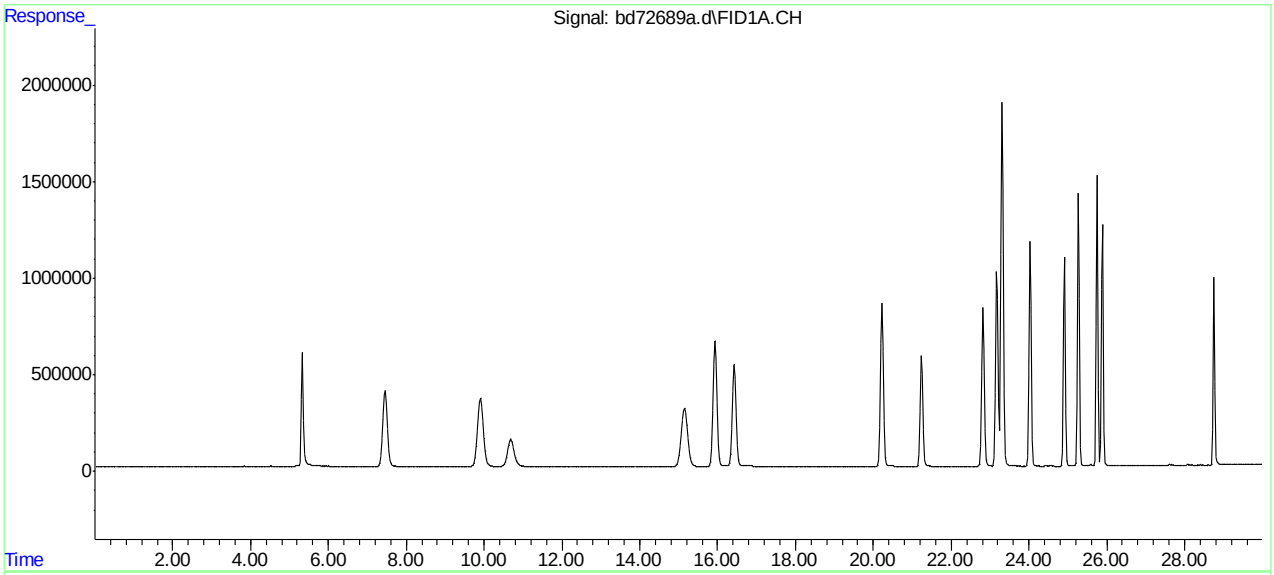
(f)=RT Delta > 1/2 Window (m)=manual int.

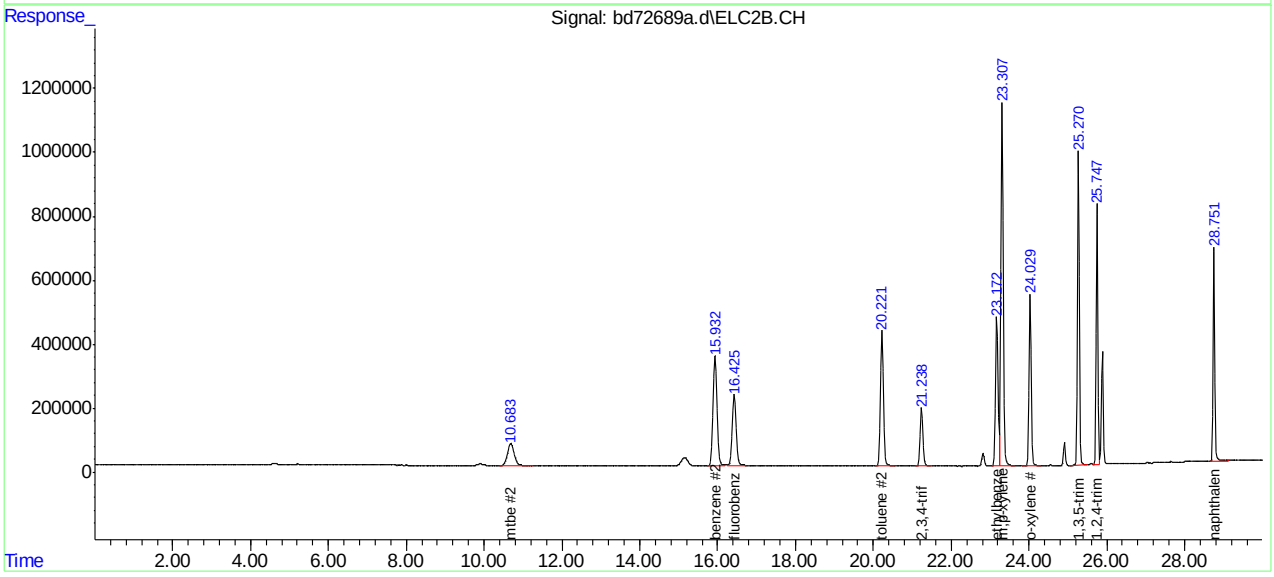
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3574-50 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25992,gbd3574,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 11:31:41 2016
Quant Method : C:\msdchem\1\methods\bd160219v8021btxmn.M
Quant Title  : vph - master
QLast Update : Mon Feb 22 11:29:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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





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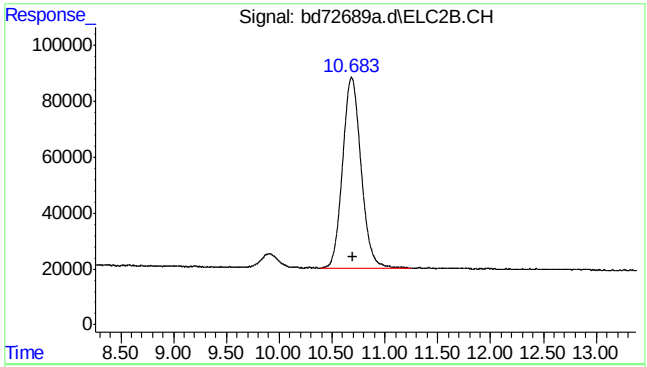
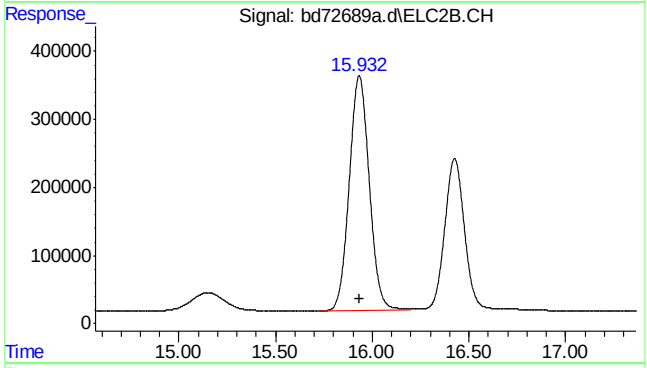


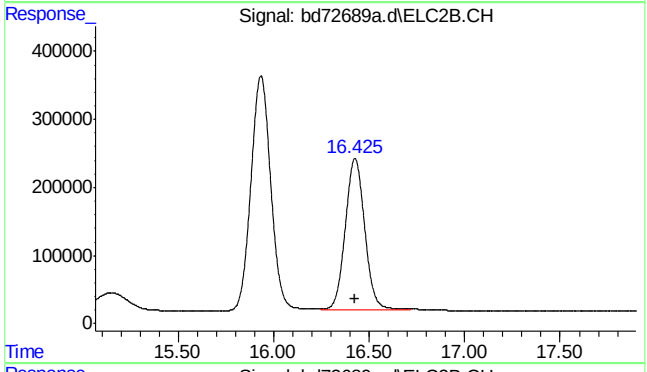
#2 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 8306963
Conc: 53.90 ppb m



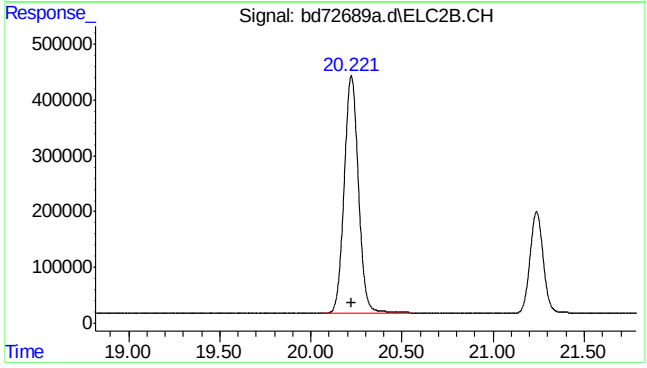
#3 benzene #2

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 24916343
Conc: 51.52 ppb



#4 fluorobenzene #2

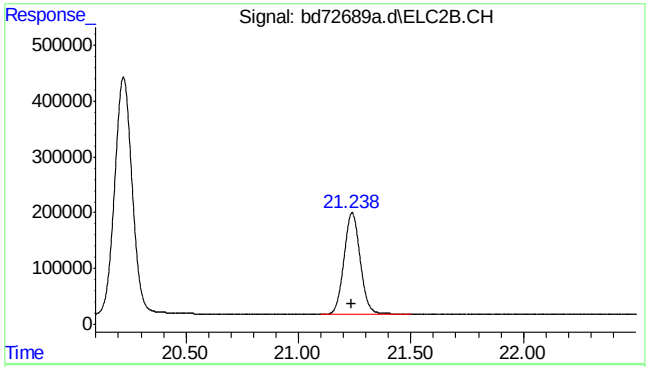
R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 15798777
Conc: 46.57 ppb



#5 toluene #2

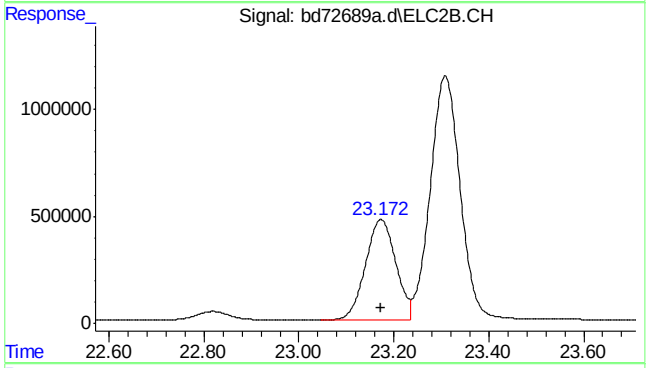
R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 23146349
Conc: 51.13 ppb

SGS ACCUTEST MC45969



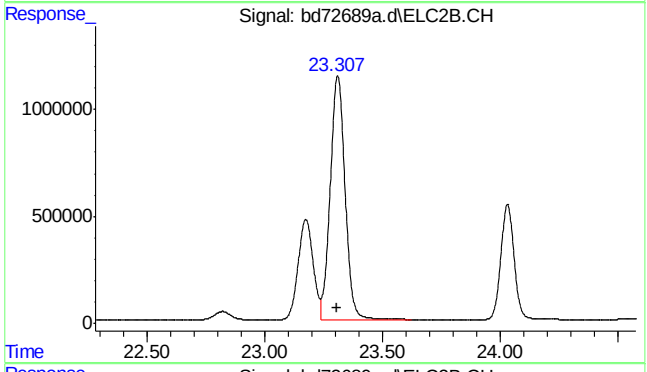
#6 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.002 min
Response: 9231850
Conc: 46.90 ppb



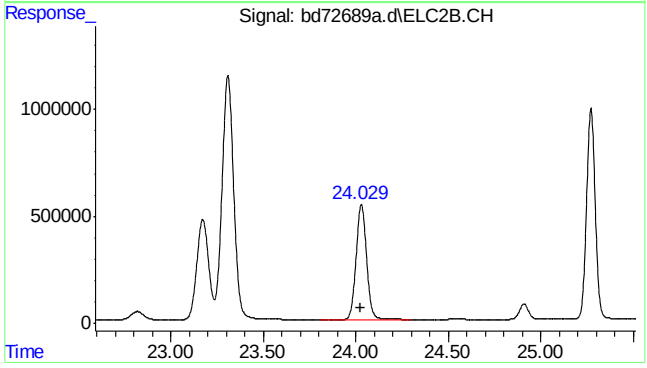
#7 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.000 min
Response: 20751208
Conc: 50.00 ppb



#8 m,p-xylene #2

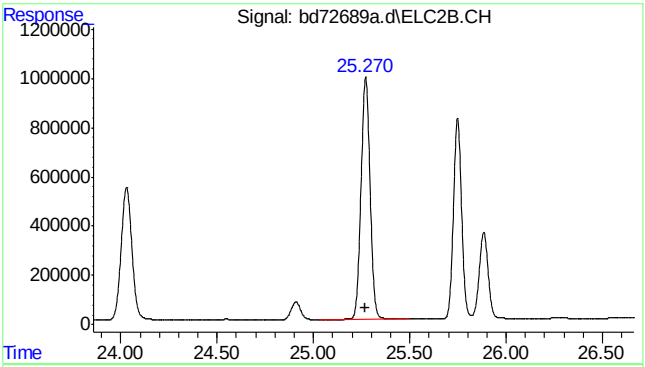
R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 49993765
Conc: 100.30 ppb



#9 o-xylene #2

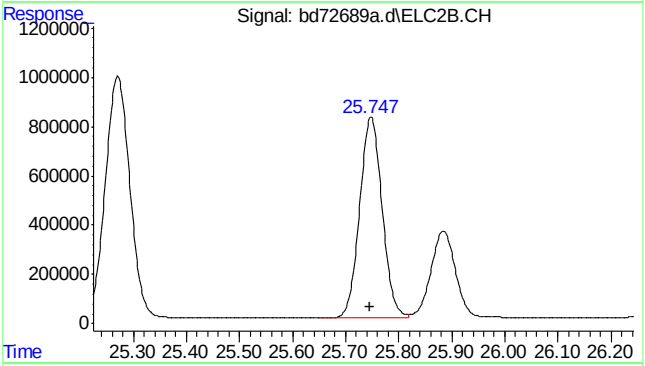
R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 21057643
Conc: 48.43 ppb

SGS ACCUTEST MC45969



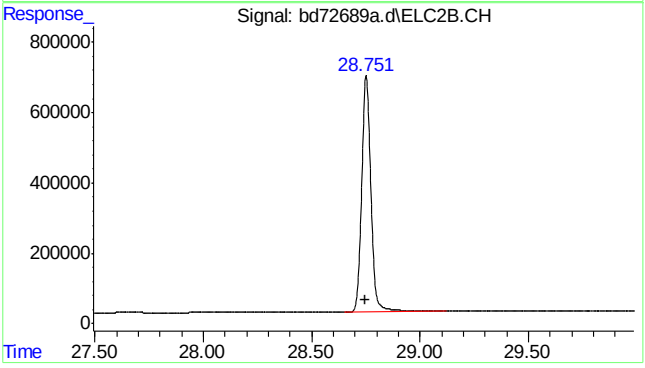
#10 1,3,5-trimethylbenzene #2

```
      R.T.:   25.271 min
Delta R.T.:    0.003 min
  Response:  32008982
      Conc:  47.70 ppb
```



#11 1,2,4-trimethylbenzene #2

```
      R.T.:   25.748 min
Delta R.T.:    0.002 min
  Response:  24040884
      Conc:  48.88 ppb
```



#12 naphthalene #2

```
      R.T.:   28.751 min
Delta R.T.:    0.000 min
  Response:  19953166
      Conc:  55.28 ppb m
```

7.5.20

7

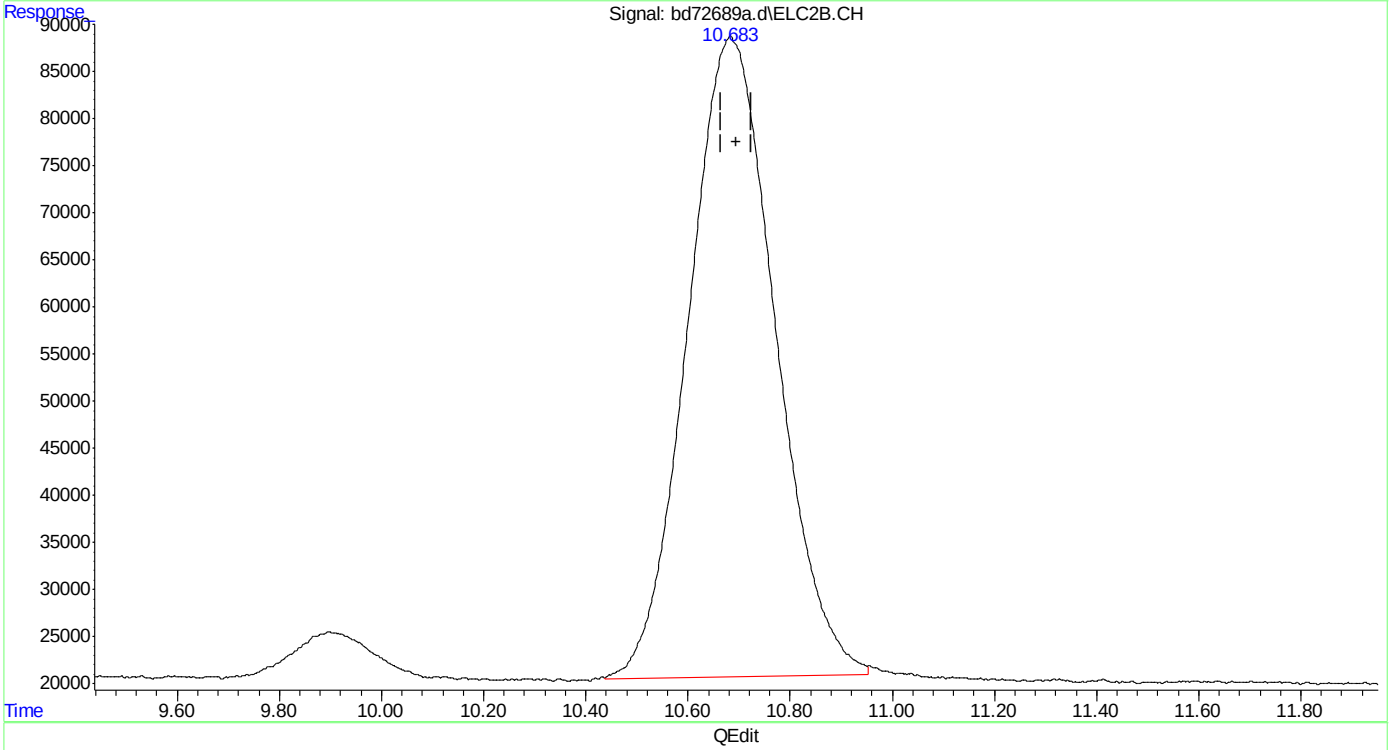
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3574-50 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25992,gbd3574,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 11:30:53 2016
Quant Method : C:\msdchem\1\methods\bd160219v8021btxmn.M
Quant Title  : vph - master
QLast Update : Mon Feb 22 11:29:19 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 :
```



(2) mtbe #2

10.684min 52.354 ppb

response 8068180

(+) = Expected Retention Time

bd160219v8021btxmn.M Mon Feb 22 11:31:15 2016

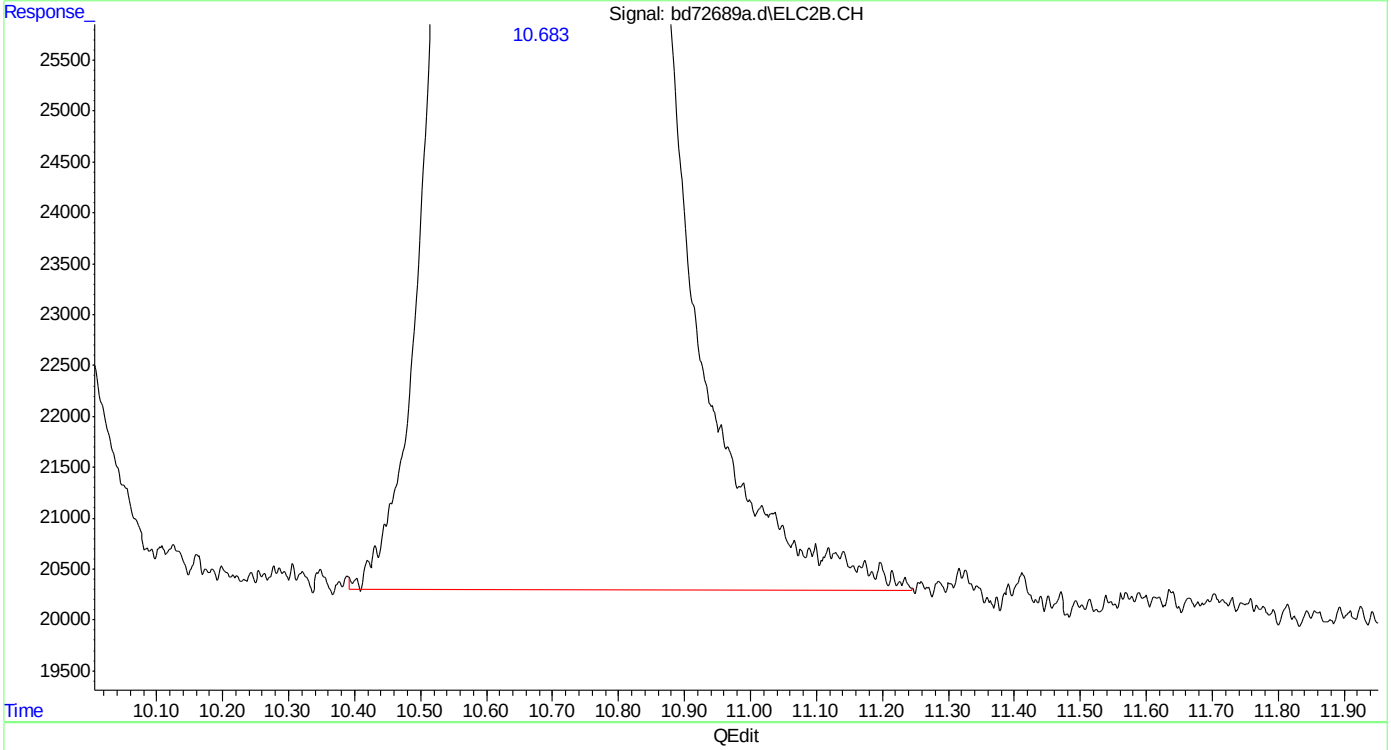
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3574-50 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25992,gbd3574,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 11:30:53 2016
Quant Method : C:\msdchem\1\methods\bd160219v8021btxmn.M
Quant Title : vph - master
QLast Update : Mon Feb 22 11:29:19 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 :



(2) mtbe #2
10.683min 53.903 ppb m
response 8306963

(+) = Expected Retention Time
bd160219v8021btxmn.M Mon Feb 22 11:31:22 2016

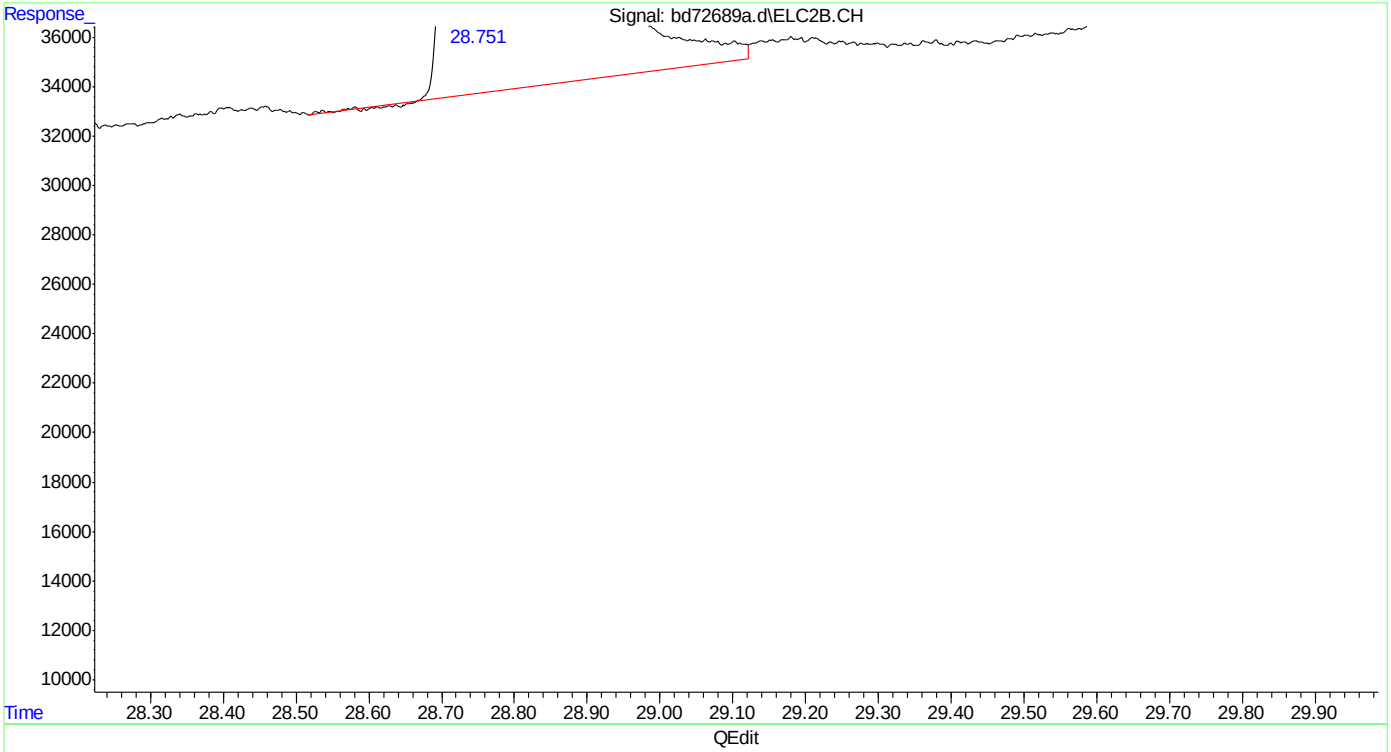
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3574-50 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25992,gbd3574,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 11:30:53 2016
Quant Method : C:\msdchem\1\methods\bd160219v8021btxmn.M
Quant Title  : vph - master
QLast Update : Mon Feb 22 11:29:19 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 :
```



(12) naphthalene #2

28.752min 55.237 ppb

response 19938925

(+) = Expected Retention Time

bd160219v8021btxmn.M Mon Feb 22 11:31:39 2016

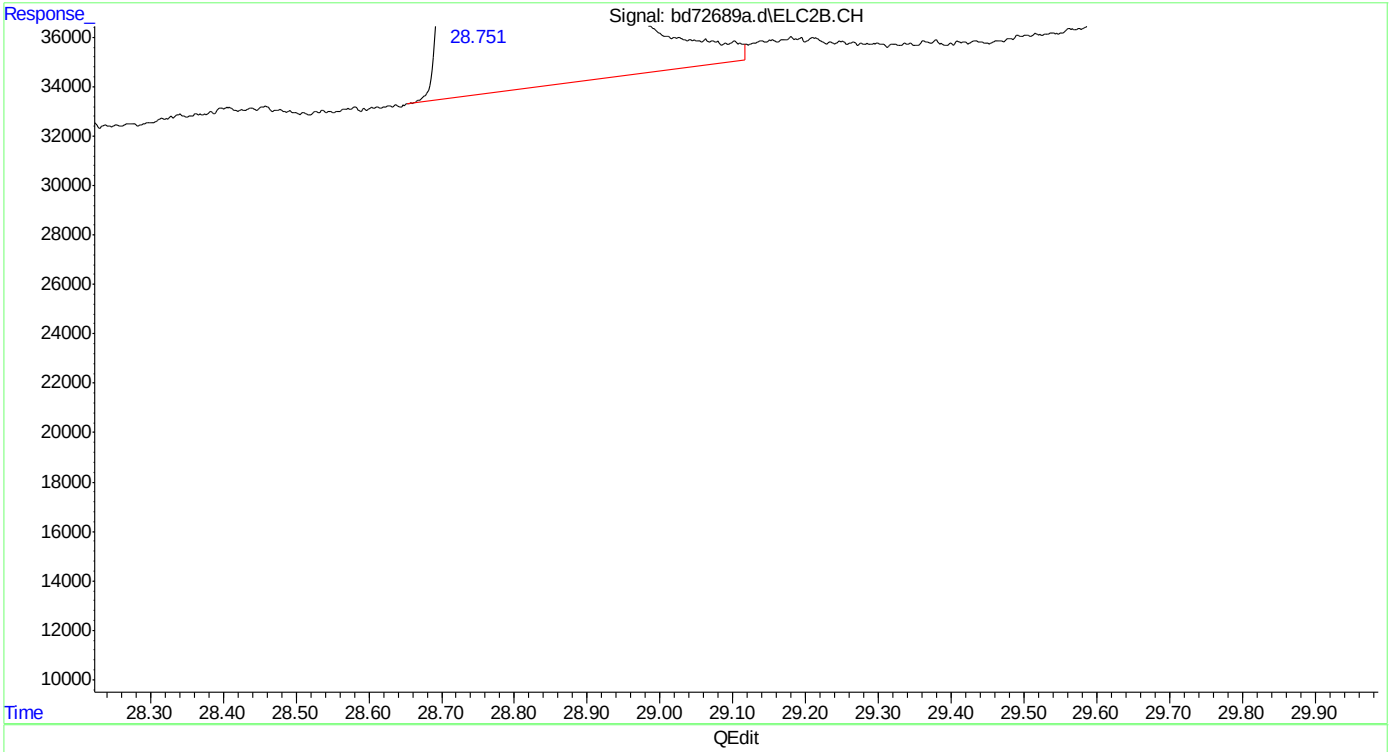
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3574-50 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25992,gbd3574,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 11:30:53 2016
Quant Method : C:\msdchem\1\methods\bd160219v8021btxmn.M
Quant Title  : vph - master
QLast Update : Mon Feb 22 11:29:19 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 :
```



(12) naphthalene #2

28.751min 55.277 ppb m

response 19953166

(+) = Expected Retention Time

bd160219v8021btxmn.M Mon Feb 22 11:31:44 2016

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/18/16 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:15:42
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 08:03:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.420	37010555	54.395 ppb	
Spiked Amount 50.000		Recovery	= 108.79%	
6) s 2,3,4-trifluorotoluene	21.237	28531444	54.762 ppb	
Spiked Amount 50.000		Recovery	= 109.52%	
16) s fluorobenzene #2	16.420	15088243	44.475 ppb	
Spiked Amount 50.000		Recovery	= 88.95%	
18) s 2,3,4-trifluorotoluen...	21.236	8735567	44.375 ppb	
Spiked Amount 50.000		Recovery	= 88.75%	
Target Compounds				
1) h rt5.5-7	7.470	26772279	43.409 ppb	m
2) h rt7/10	9.920	33216533	53.858 ppb	m
3) h rt10/13	15.200	28650621	46.455 ppb	m
8) h rt20/25	22.840	33459788	41.813 ppb	m
10) h decane	24.930	31066574	38.822 ppb	
11) h butylcyclohexane	25.908	36755407	45.931 ppb	
14) mtbe #2	10.679f	7659257	49.700 ppb	m
15) benzene #2	15.928	23459198	48.509 ppb	
17) toluene #2	20.219	21989987	48.573 ppb	
19) ethylbenzene #2	23.172	19668386	47.392 ppb	
20) m,p-xylene #2	23.308	47550494	95.398 ppb	
21) o-xylene #2	24.030	20133970	46.308 ppb	
22) t 1,3,5-trimethylbenzen...	25.272	28858048	43.005 ppb	
23) 1,2,4-trimethylbenzen...	25.749	22629197	46.006 ppb	
24) naphthalene #2	28.754	18263925	50.644 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	22595030	45.958 ppb	m

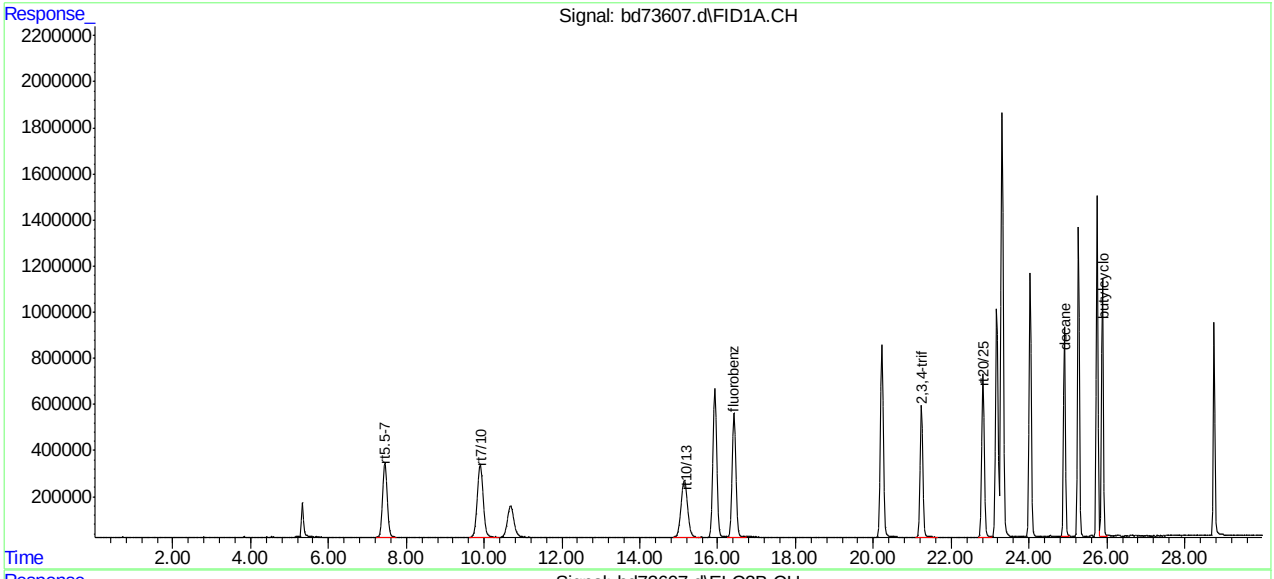
(f)=RT Delta > 1/2 Window (m)=manual int.

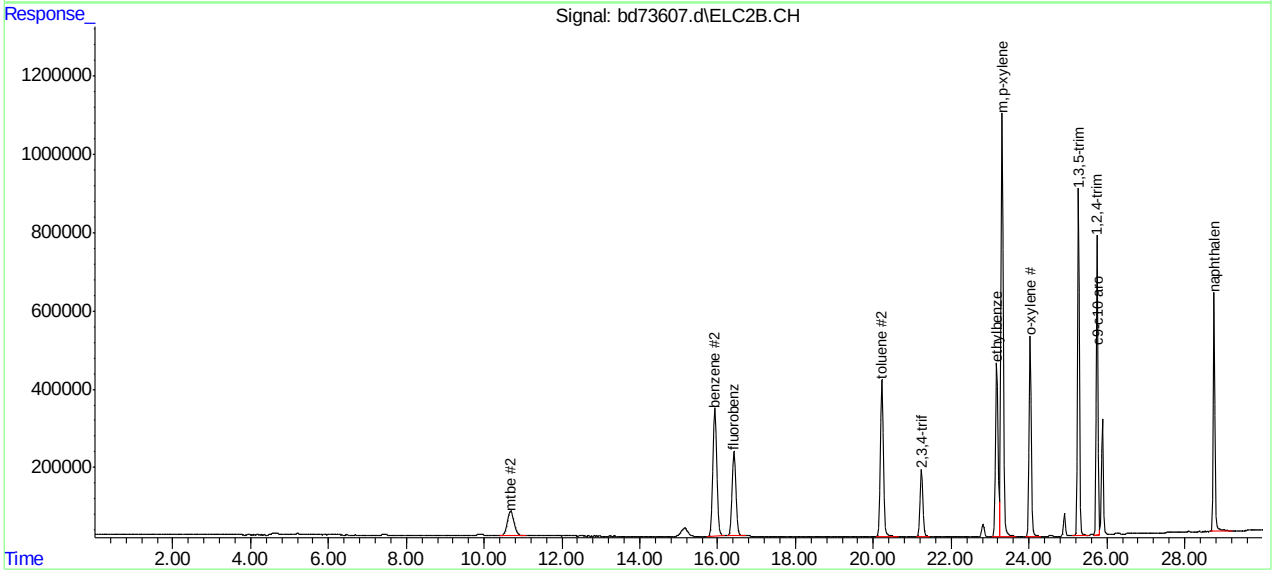
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:15:42
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

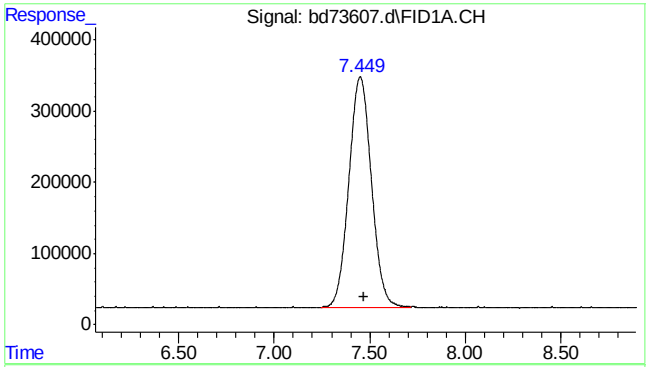
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 08:03:21 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



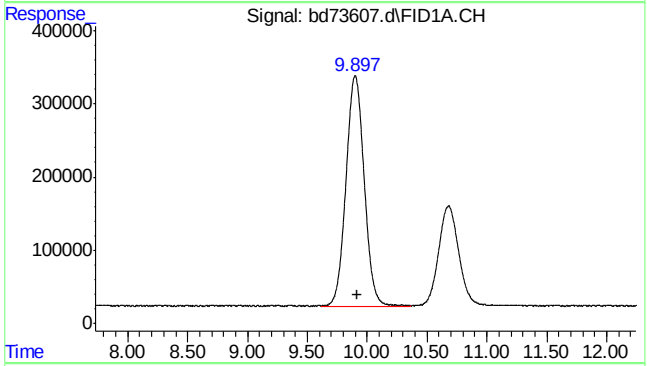


SGS ACCUTEST MC45969



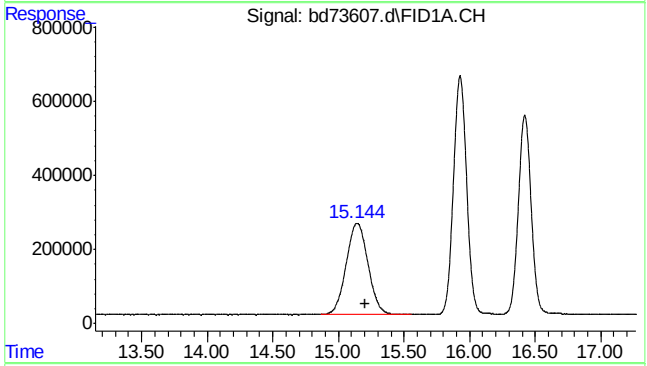
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26772279
Conc: 43.41 ppb m



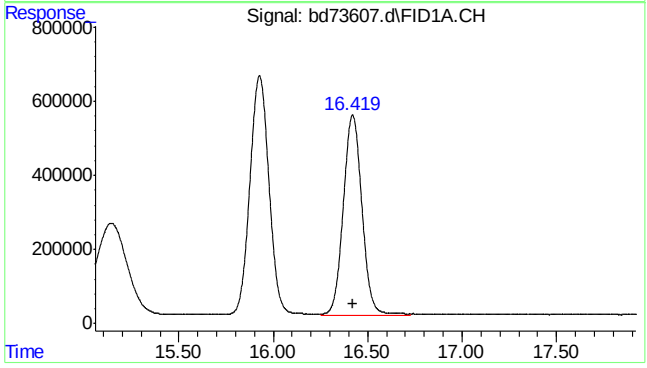
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 33216533
Conc: 53.86 ppb m



#3 rt10/13

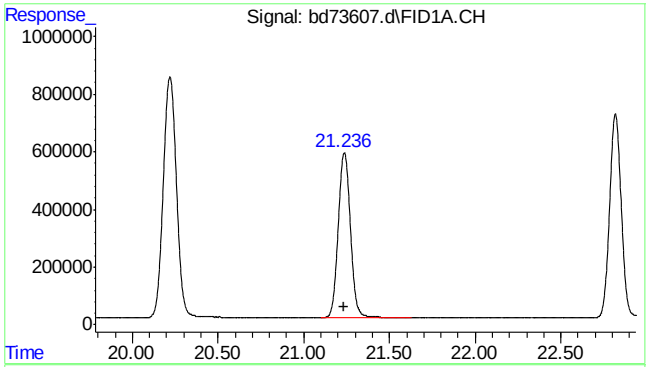
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 28650621
Conc: 46.45 ppb m



#4 fluorobenzene

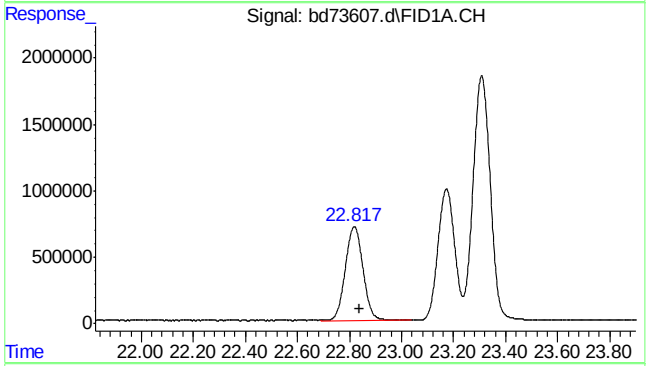
R.T.: 16.420 min
Delta R.T.: -0.004 min
Response: 37010555
Conc: 54.39 ppb

SGS ACCUTEST MC45969



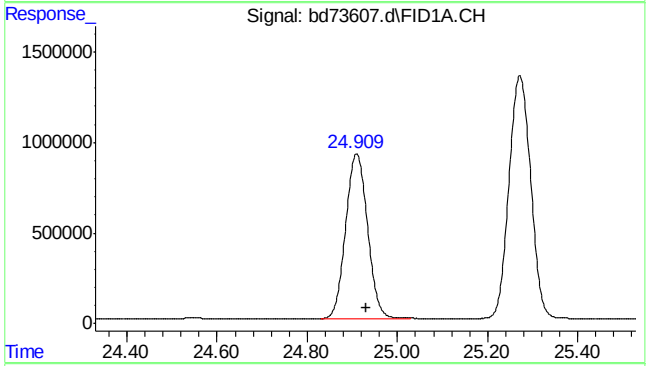
#6 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 28531444
Conc: 54.76 ppb



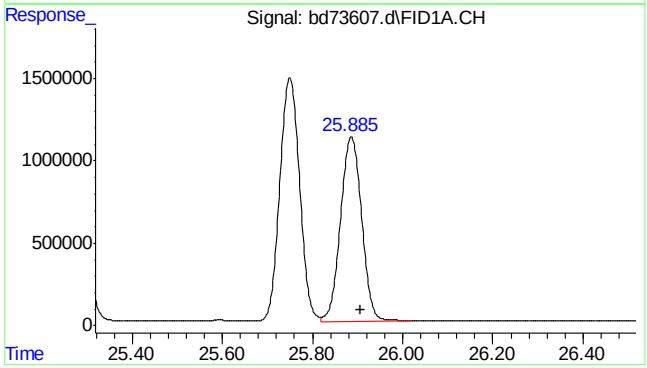
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 33459788
Conc: 41.81 ppb m



#10 decane

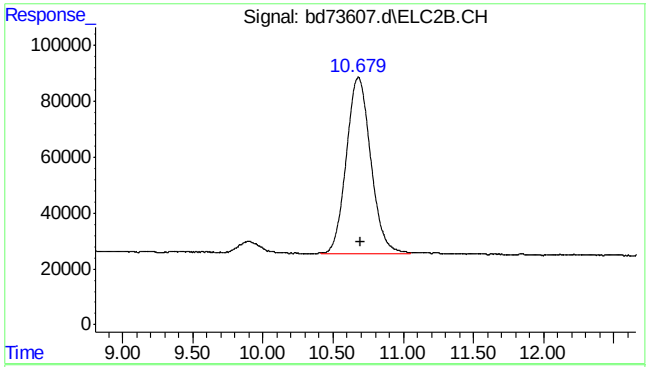
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 31066574
Conc: 38.82 ppb



#11 butylcyclohexane

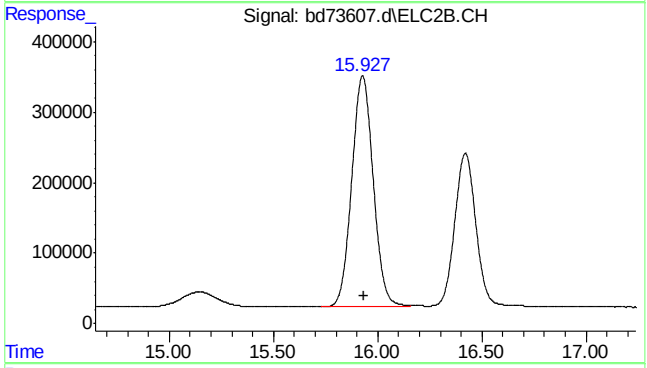
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 36755407
Conc: 45.93 ppb

SGS ACCUTEST MC45969



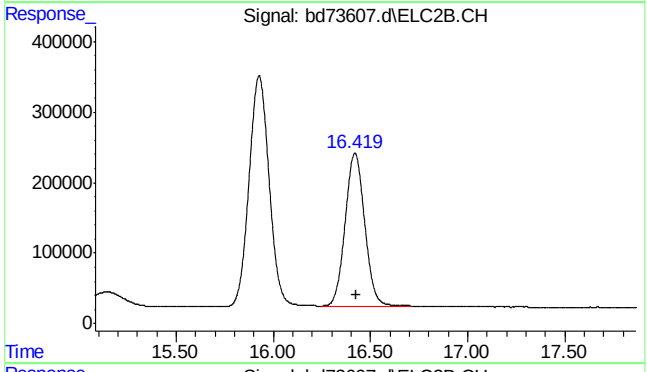
#14 mtbe #2

R.T.: 10.679 min
Delta R.T.: -0.017 min
Response: 7659257
Conc: 49.70 ppb m



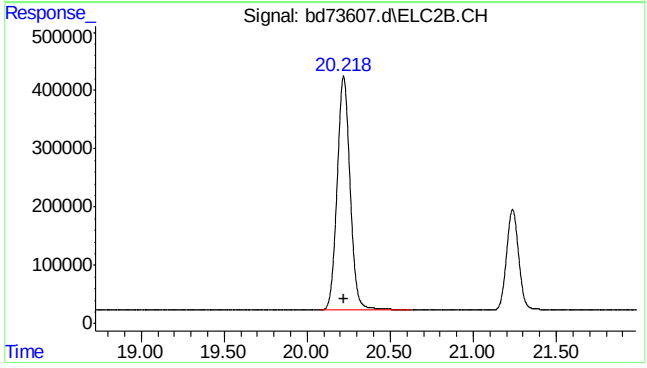
#15 benzene #2

R.T.: 15.928 min
Delta R.T.: -0.004 min
Response: 23459198
Conc: 48.51 ppb



#16 fluorobenzene #2

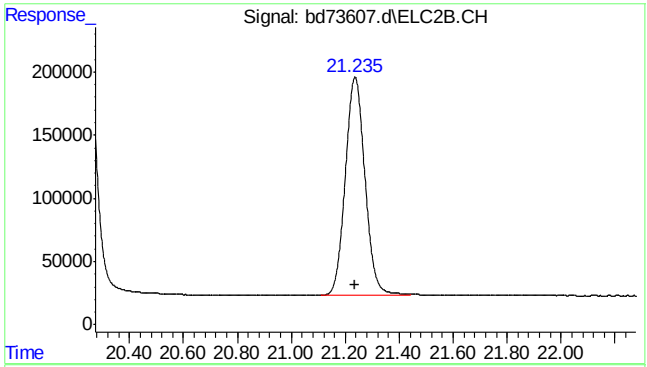
R.T.: 16.420 min
Delta R.T.: -0.004 min
Response: 15088243
Conc: 44.47 ppb



#17 toluene #2

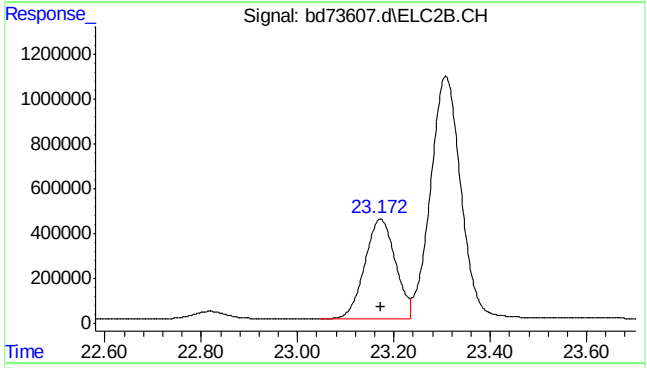
R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 21989987
Conc: 48.57 ppb

SGS ACCUTEST MC45969



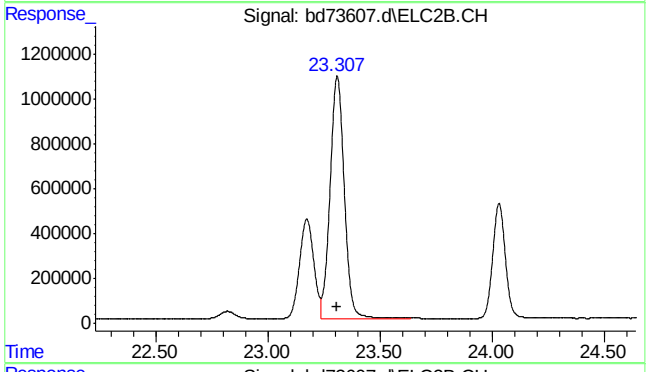
#18 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: 0.000 min
Response: 8735567
Conc: 44.38 ppb



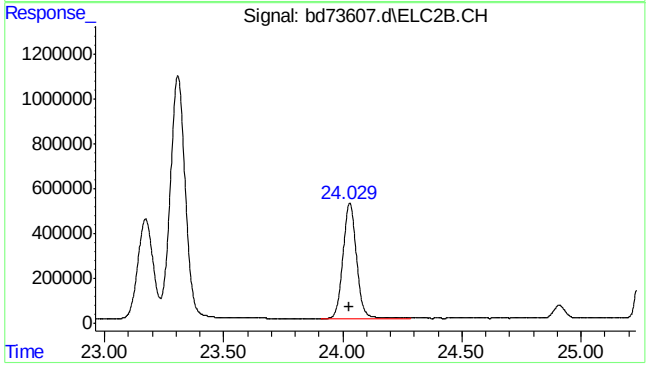
#19 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 19668386
Conc: 47.39 ppb



#20 m,p-xylene #2

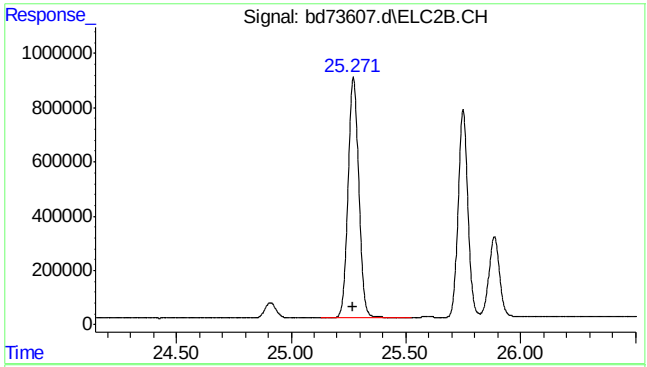
R.T.: 23.308 min
Delta R.T.: 0.000 min
Response: 47550494
Conc: 95.40 ppb



#21 o-xylene #2

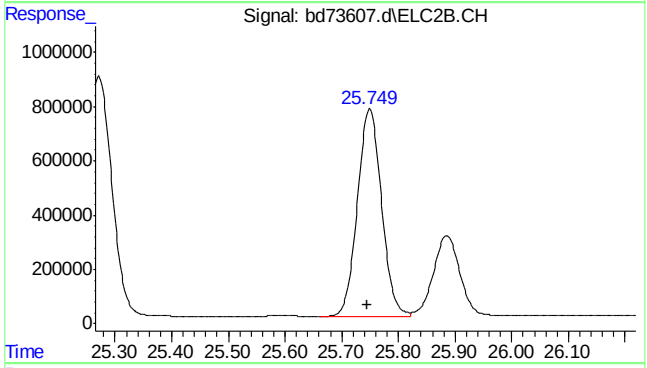
R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 20133970
Conc: 46.31 ppb

SGS ACCUTEST MC45969



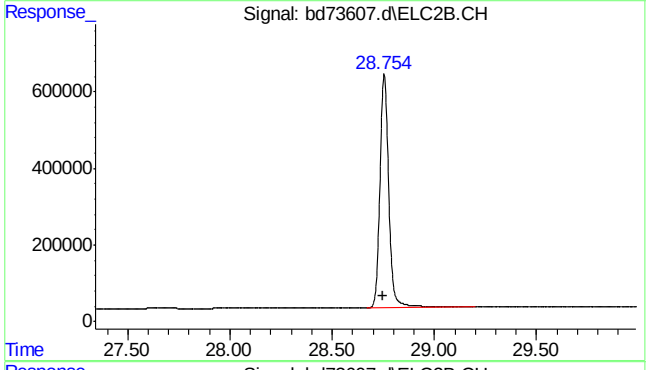
#22 1,3,5-trimethylbenzene #2

R.T.: 25.272 min
Delta R.T.: 0.004 min
Response: 28858048
Conc: 43.01 ppb



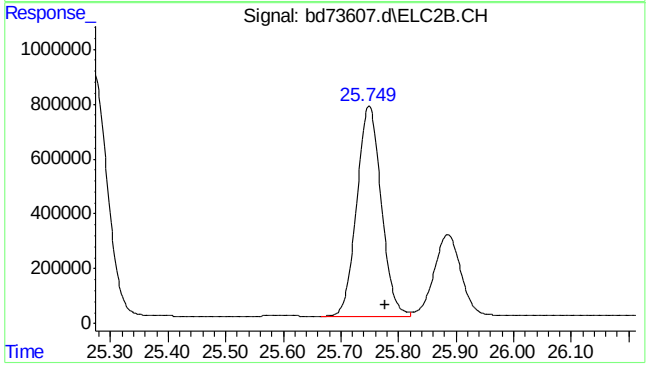
#23 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 22629197
Conc: 46.01 ppb



#24 naphthalene #2

R.T.: 28.754 min
Delta R.T.: 0.004 min
Response: 18263925
Conc: 50.64 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 22595030
Conc: 45.96 ppb m

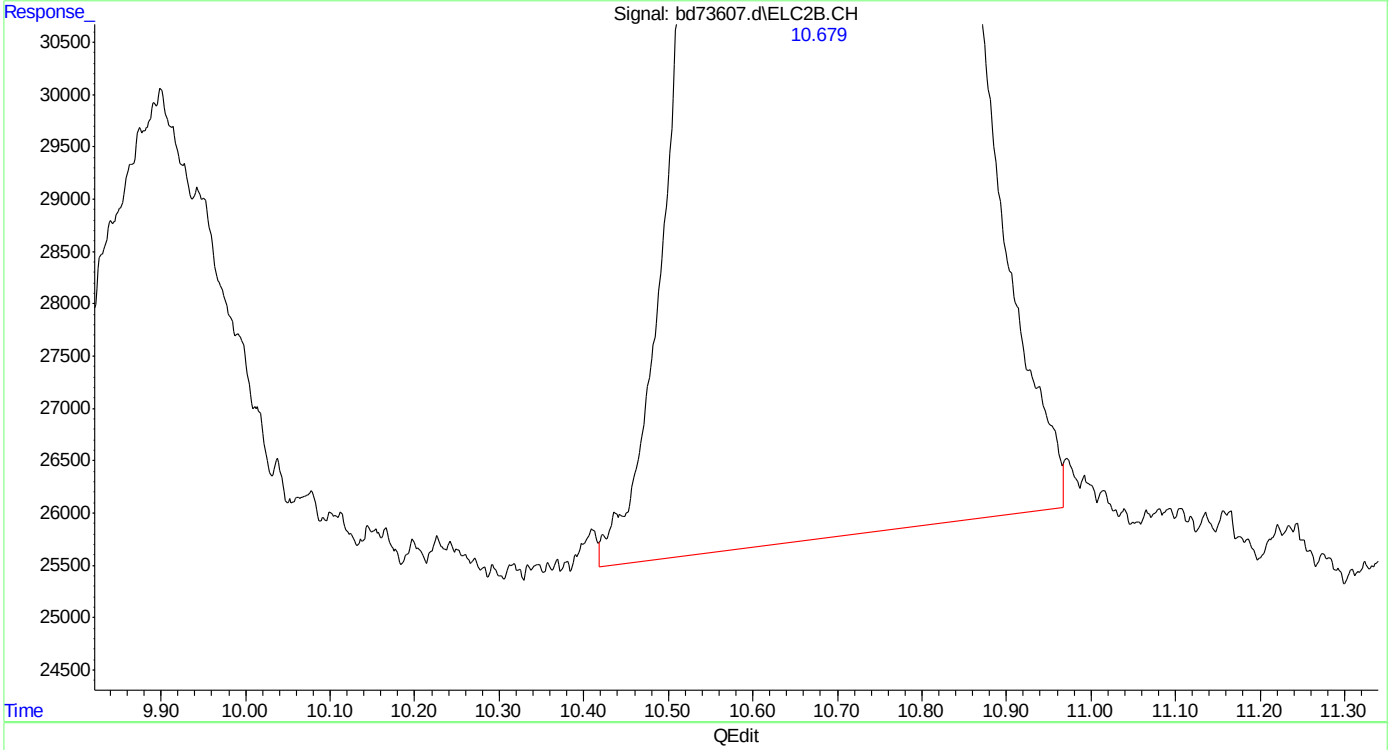
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:15:42
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 08:02:18 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.679min 48.765 ppb
response 7515080

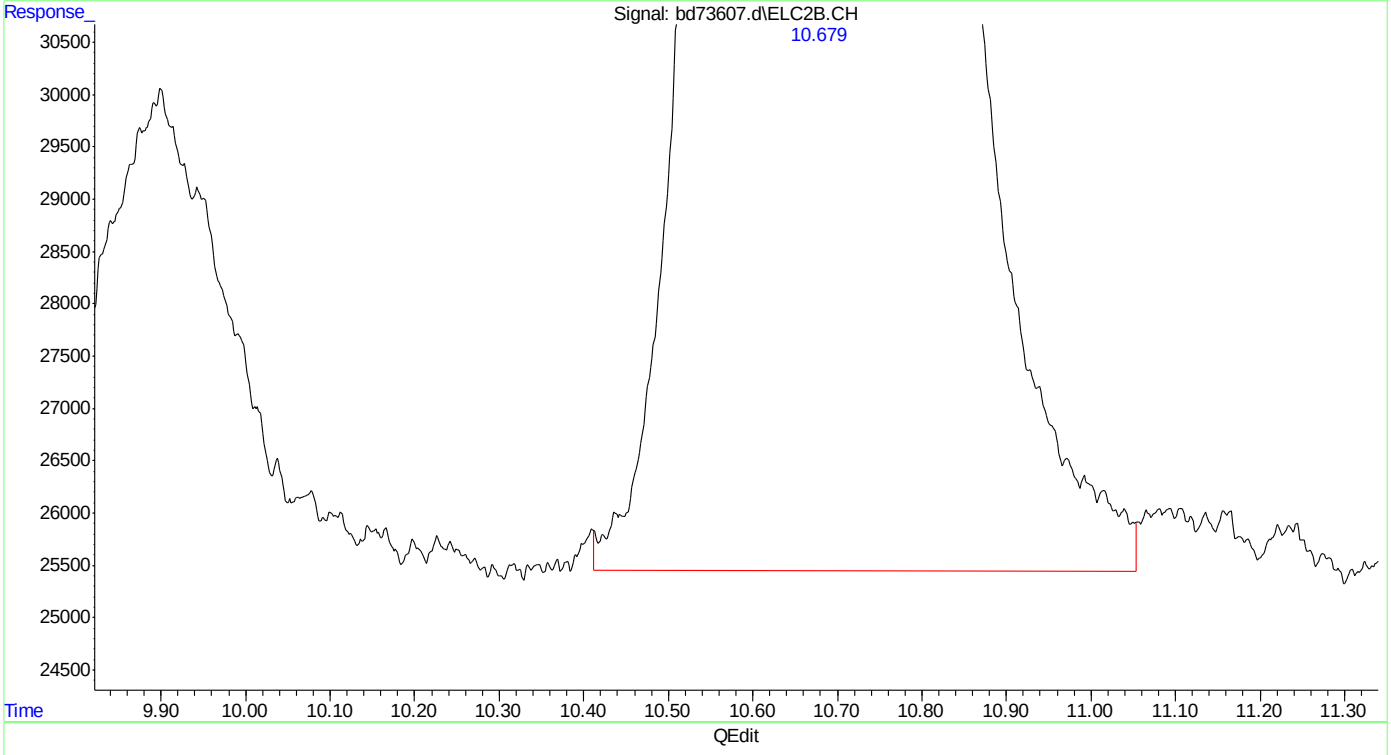
(+) = Expected Retention Time
bd160518vph.M Wed May 18 08:02:58 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 07:15:42
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26249,gbd3638,,,,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 18 08:02:18 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2

10.679min 49.700 ppb m

response 7659257

(+) = Expected Retention Time

bd160518vph.M Wed May 18 08:03:04 2016

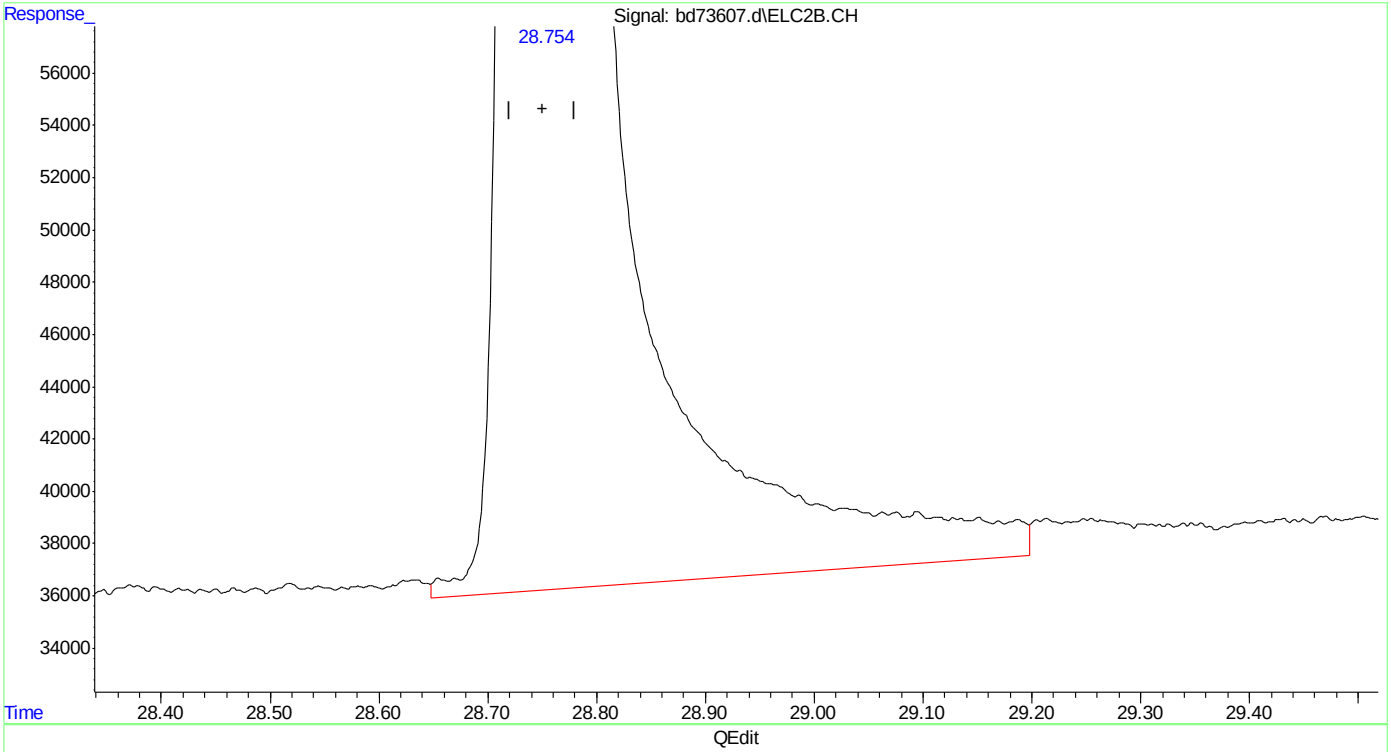
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:15:42
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 08:02:18 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.755min 51.356 ppb
response 18523496

(+) = Expected Retention Time
bd160518vph.M Wed May 18 08:03:12 2016

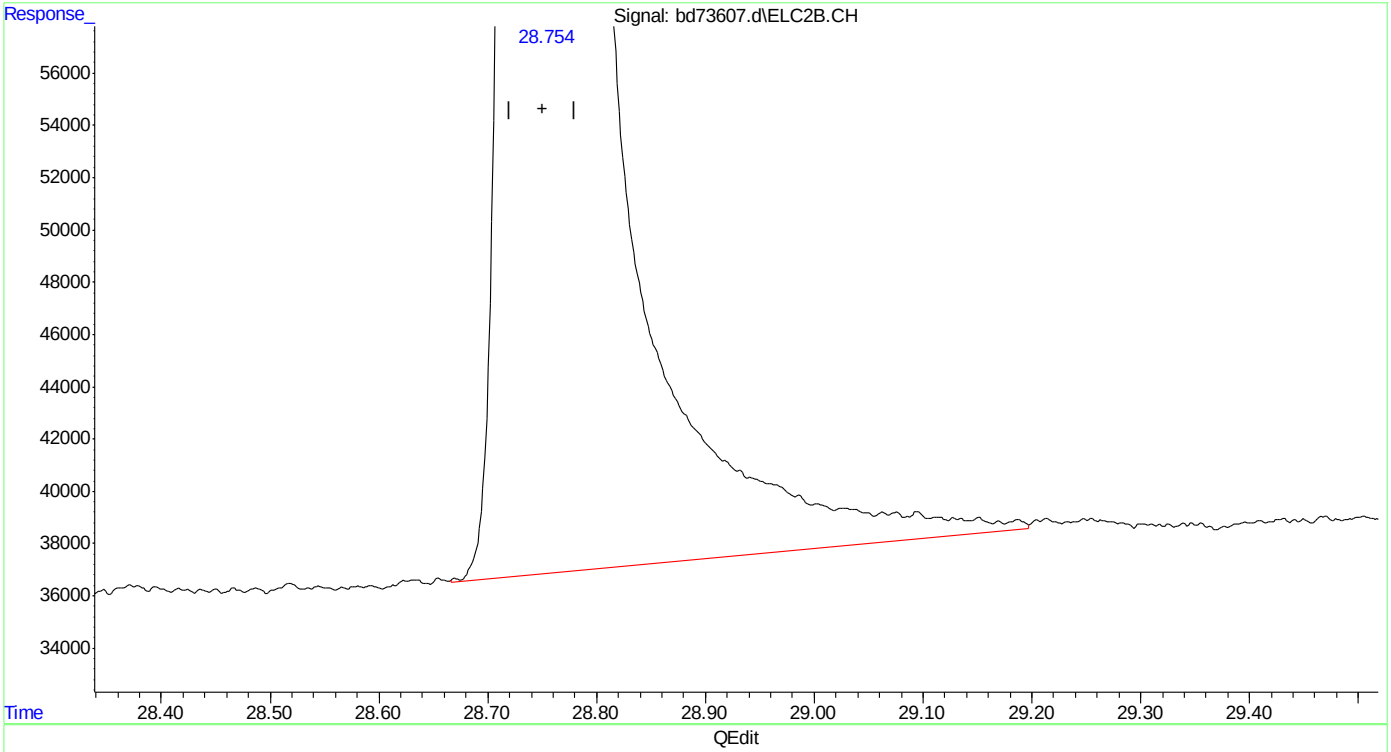
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:15:42
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 08:02:18 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.754min 50.644 ppb m
response 18263925

(+) = Expected Retention Time
bd160518vph.M Wed May 18 08:03:17 2016

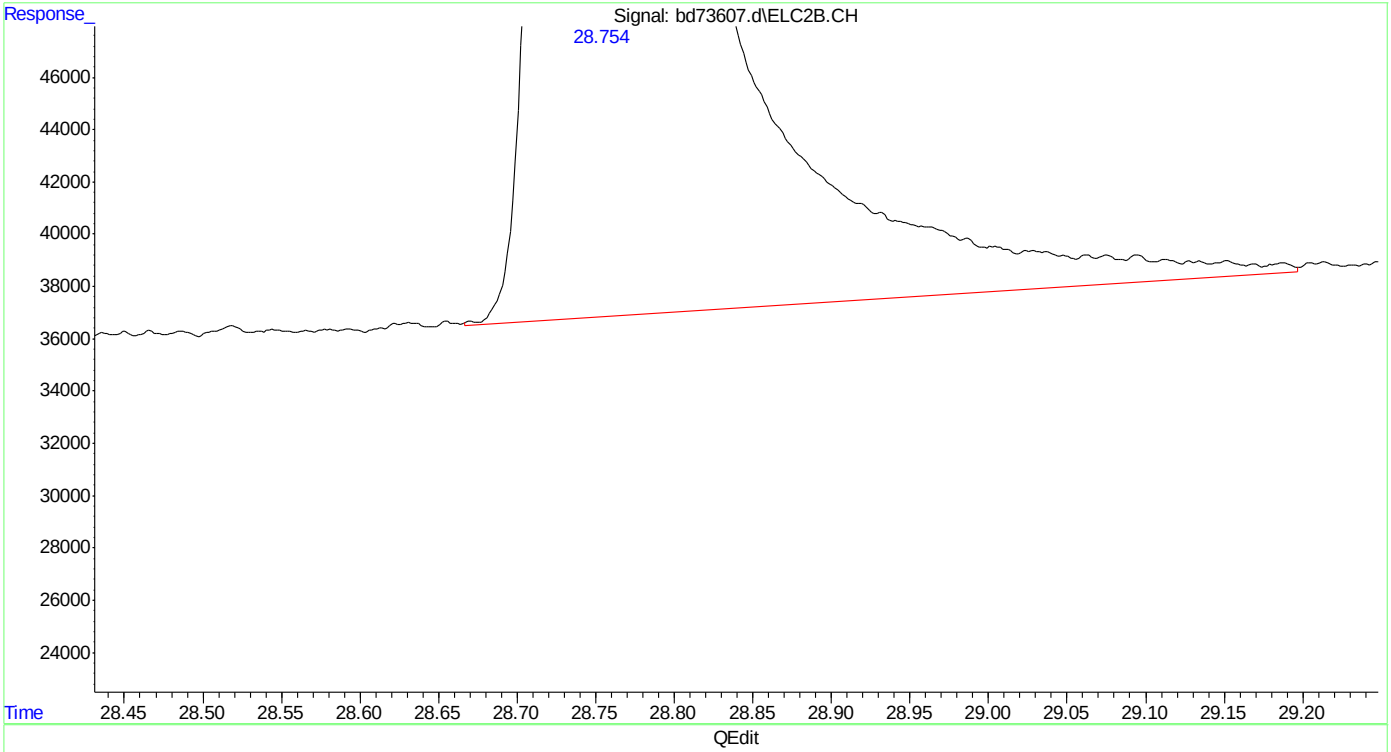
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73607.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 07:15:42
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 08:02:18 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2
28.754min 50.644 ppb m
response 18263925

(+) = Expected Retention Time
bd160518vph.M Wed May 18 08:03:27 2016

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/18/16 13:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	34258956	50.351 ppb	
Spiked Amount 50.000		Recovery	= 100.70%	
6) s 2,3,4-trifluorotoluene	21.238	26334601	50.546 ppb	
Spiked Amount 50.000		Recovery	= 101.09%	
16) s fluorobenzene #2	16.424	14564891	42.932 ppb	
Spiked Amount 50.000		Recovery	= 85.86%	
18) s 2,3,4-trifluorotoluen...	21.237	8458264	42.967 ppb	
Spiked Amount 50.000		Recovery	= 85.93%	
Target Compounds				
1) h rt5.5-7	7.470	24254782	39.327 ppb	m
2) h rt7/10	9.920	29919709	48.512 ppb	m
3) h rt10/13	15.200	26325598	42.685 ppb	m
8) h rt20/25	22.840	32049309	40.050 ppb	m
10) h decane	24.930	30225099	37.771 ppb	
11) h butylcyclohexane	25.908	34513154	43.129 ppb	
14) mtbe #2	10.687	7285620	47.276 ppb	m
15) benzene #2	15.931	22365718	46.248 ppb	
17) toluene #2	20.220	21011312	46.411 ppb	
19) ethylbenzene #2	23.172	18805698	45.314 ppb	
20) m,p-xylene #2	23.308	45434249	91.152 ppb	
21) o-xylene #2	24.029	19167278	44.084 ppb	
22) t 1,3,5-trimethylbenzen...	25.271	27117859	40.412 ppb	
23) 1,2,4-trimethylbenzen...	25.749	21351151	43.408 ppb	
24) naphthalene #2	28.753	21204502	58.708 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21343374	43.412 ppb	m

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

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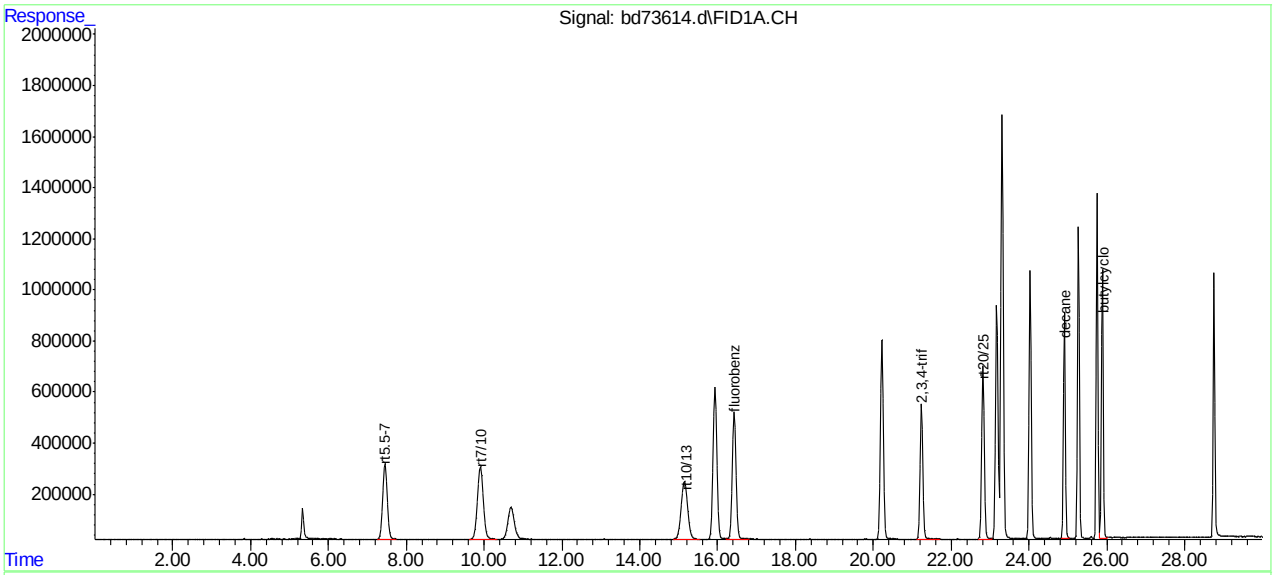
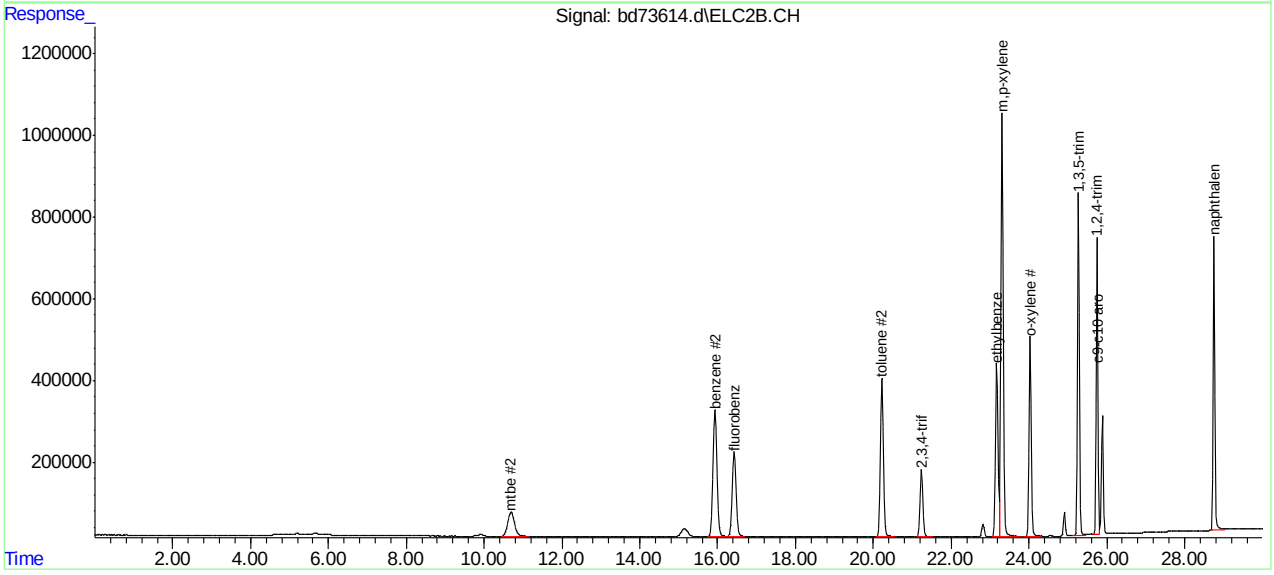
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

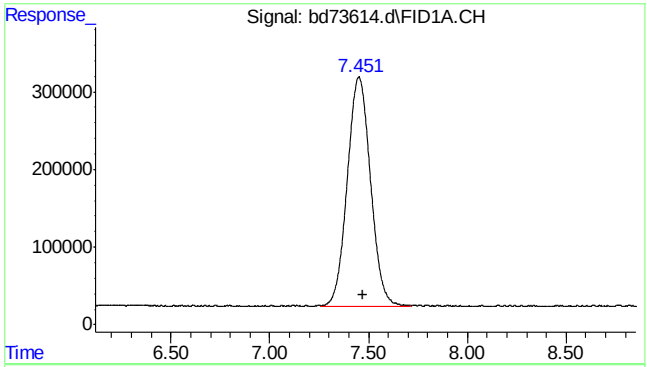
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



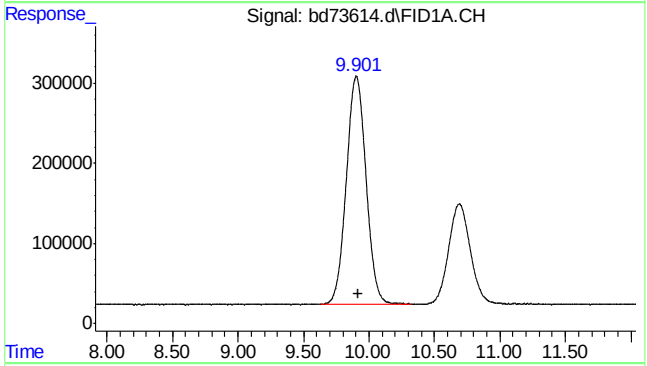


SGS ACCUTEST MC45969



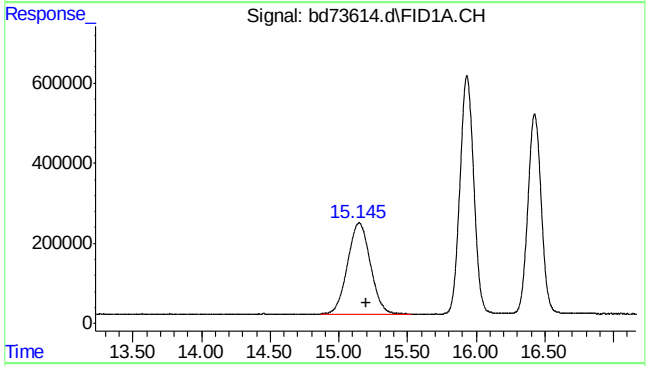
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 24254782
Conc: 39.33 ppb m



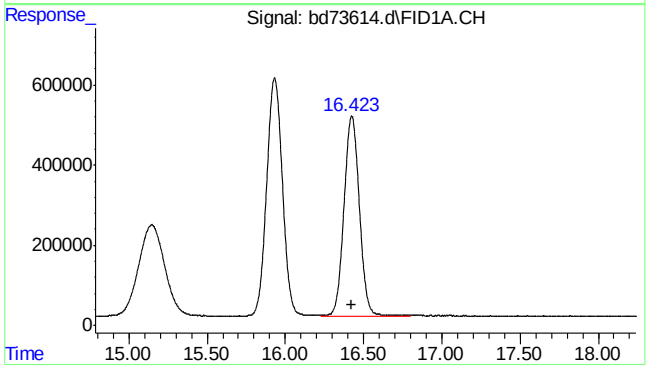
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 29919709
Conc: 48.51 ppb m



#3 rt10/13

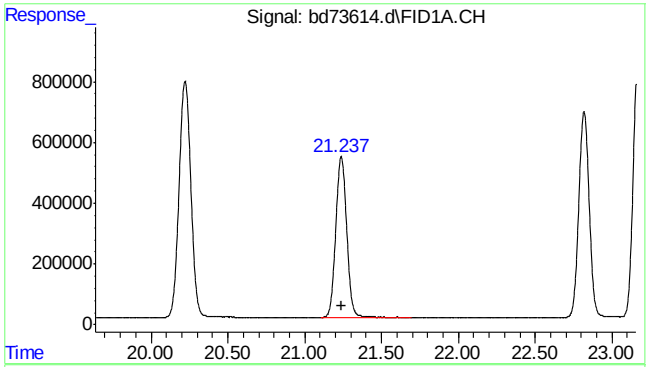
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 26325598
Conc: 42.68 ppb m



#4 fluorobenzene

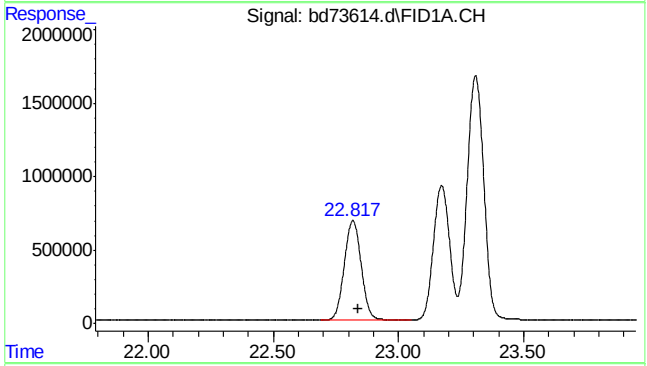
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 34258956
Conc: 50.35 ppb

SGS ACCUTEST MC45969



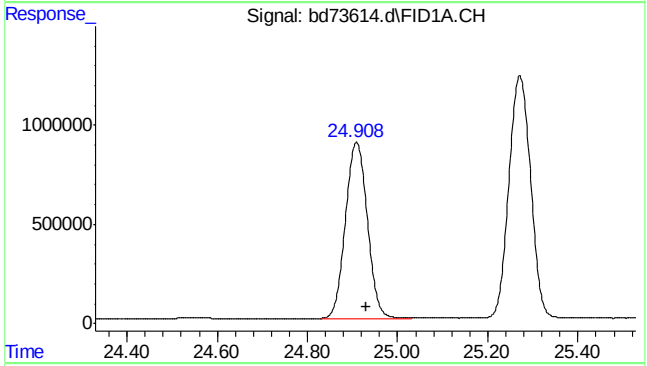
#6 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 26334601
Conc: 50.55 ppb



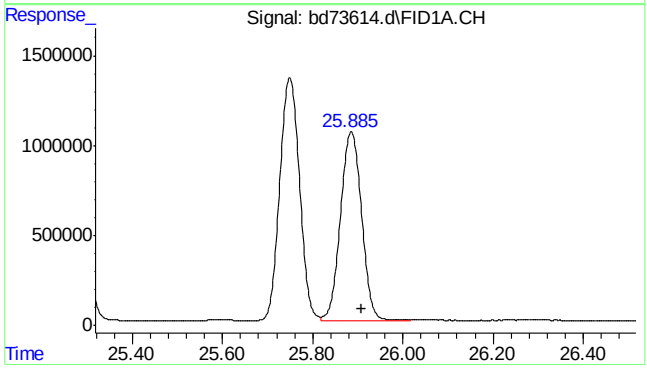
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32049309
Conc: 40.05 ppb m



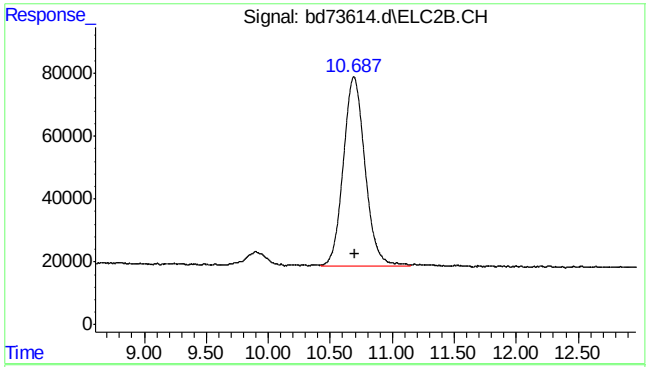
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30225099
Conc: 37.77 ppb



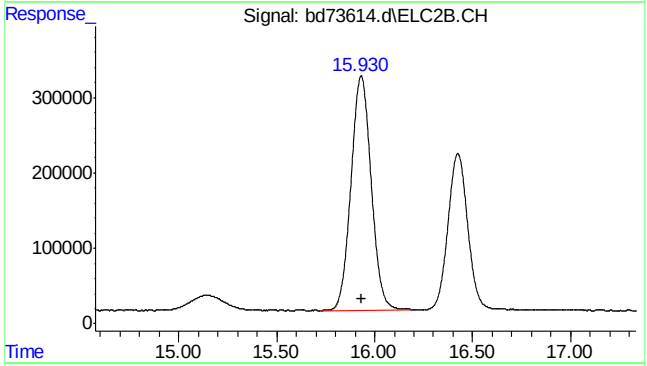
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 34513154
Conc: 43.13 ppb



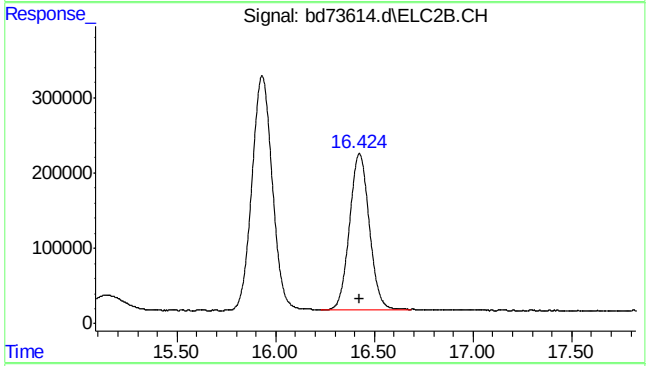
#14 mtbe #2

R.T.: 10.687 min
Delta R.T.: -0.009 min
Response: 7285620
Conc: 47.28 ppb m



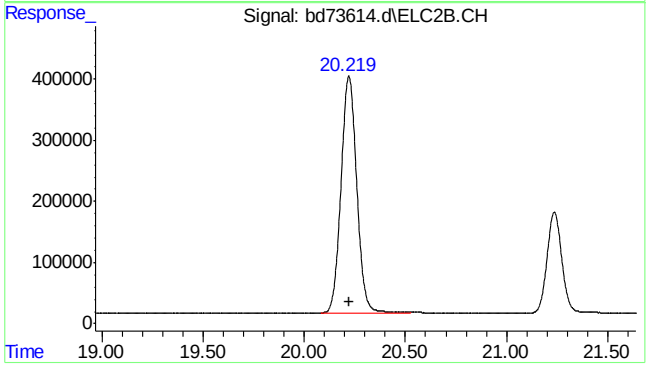
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 22365718
Conc: 46.25 ppb



#16 fluorobenzene #2

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 14564891
Conc: 42.93 ppb



#17 toluene #2

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 21011312
Conc: 46.41 ppb

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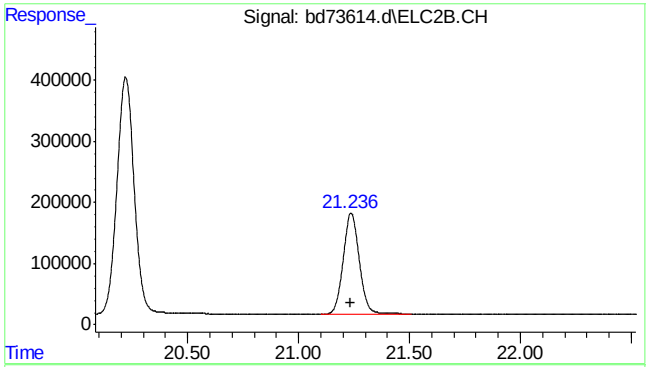
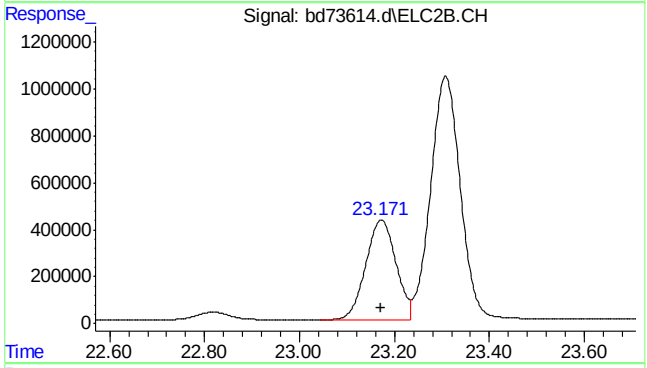


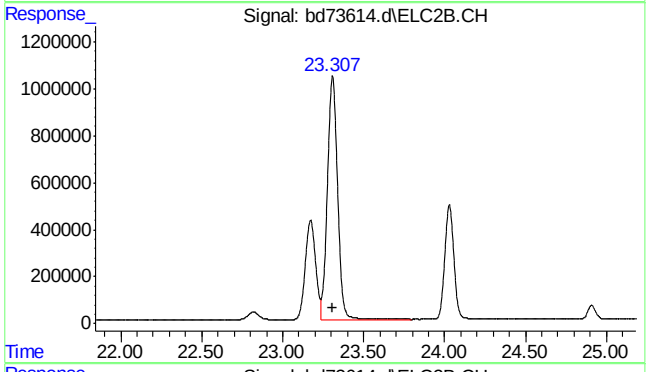
#18 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 8458264
Conc: 42.97 ppb



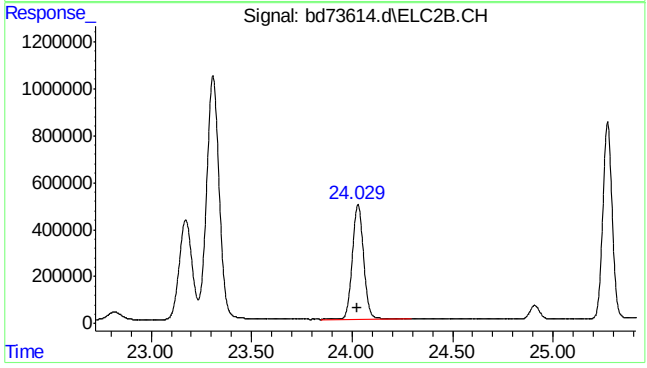
#19 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 18805698
Conc: 45.31 ppb



#20 m,p-xylene #2

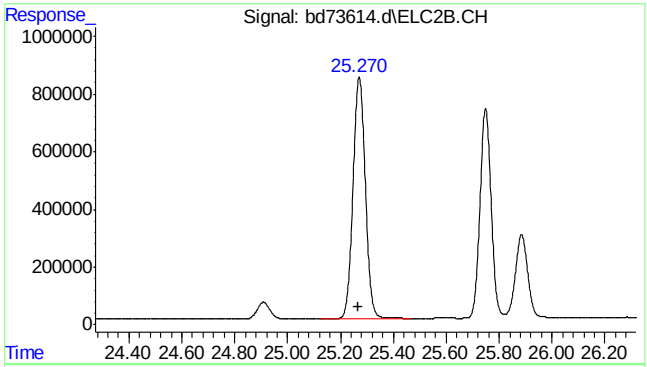
R.T.: 23.308 min
Delta R.T.: 0.000 min
Response: 45434249
Conc: 91.15 ppb



#21 o-xylene #2

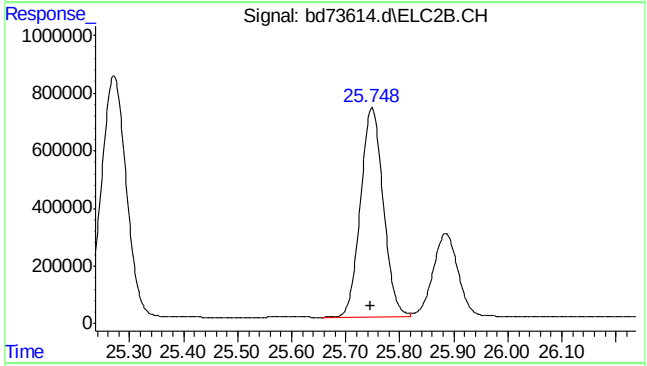
R.T.: 24.029 min
Delta R.T.: 0.001 min
Response: 19167278
Conc: 44.08 ppb

SGS ACCUTEST MC45969



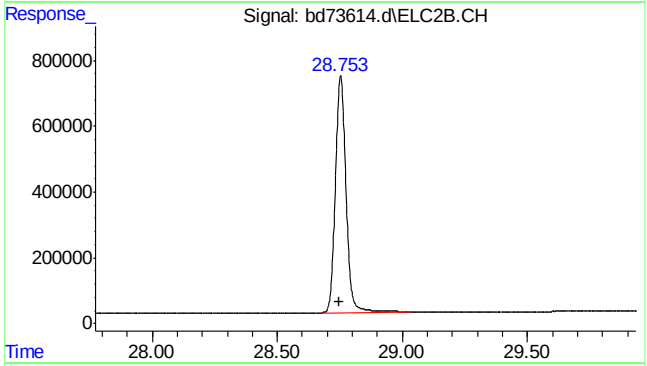
#22 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 27117859
Conc: 40.41 ppb



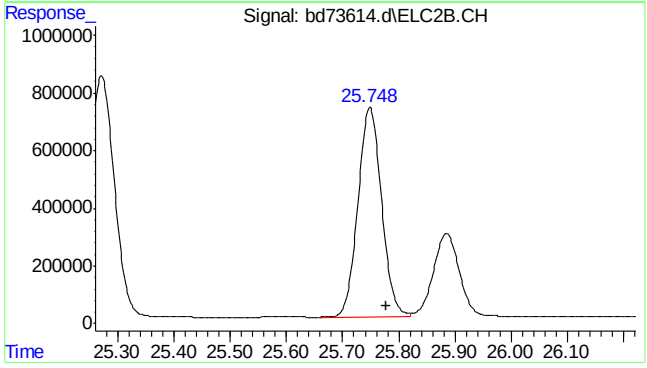
#23 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 21351151
Conc: 43.41 ppb



#24 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 21204502
Conc: 58.71 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21343374
Conc: 43.41 ppb m

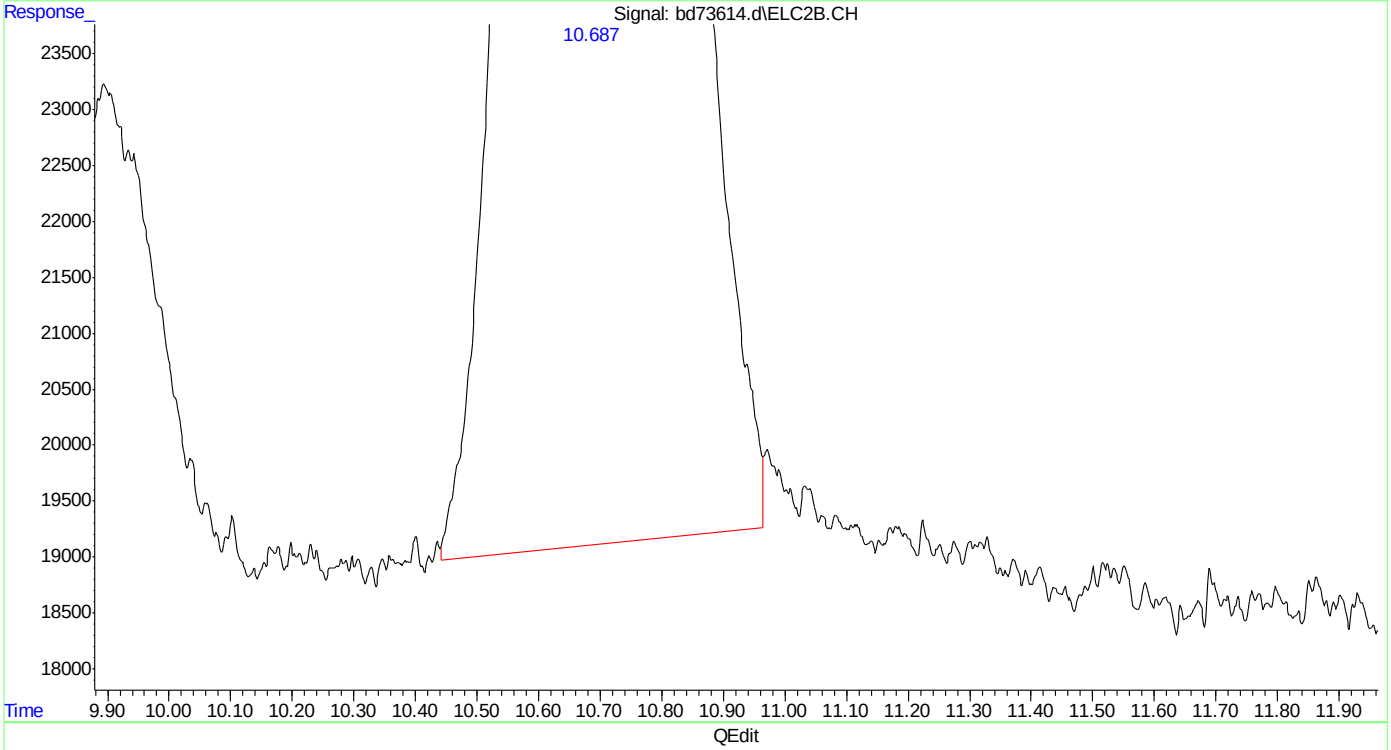
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 12:12:46 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.688min 46.129 ppb
response 7108934

(+) = Expected Retention Time
bd160518vph.M Wed May 18 12:13:33 2016

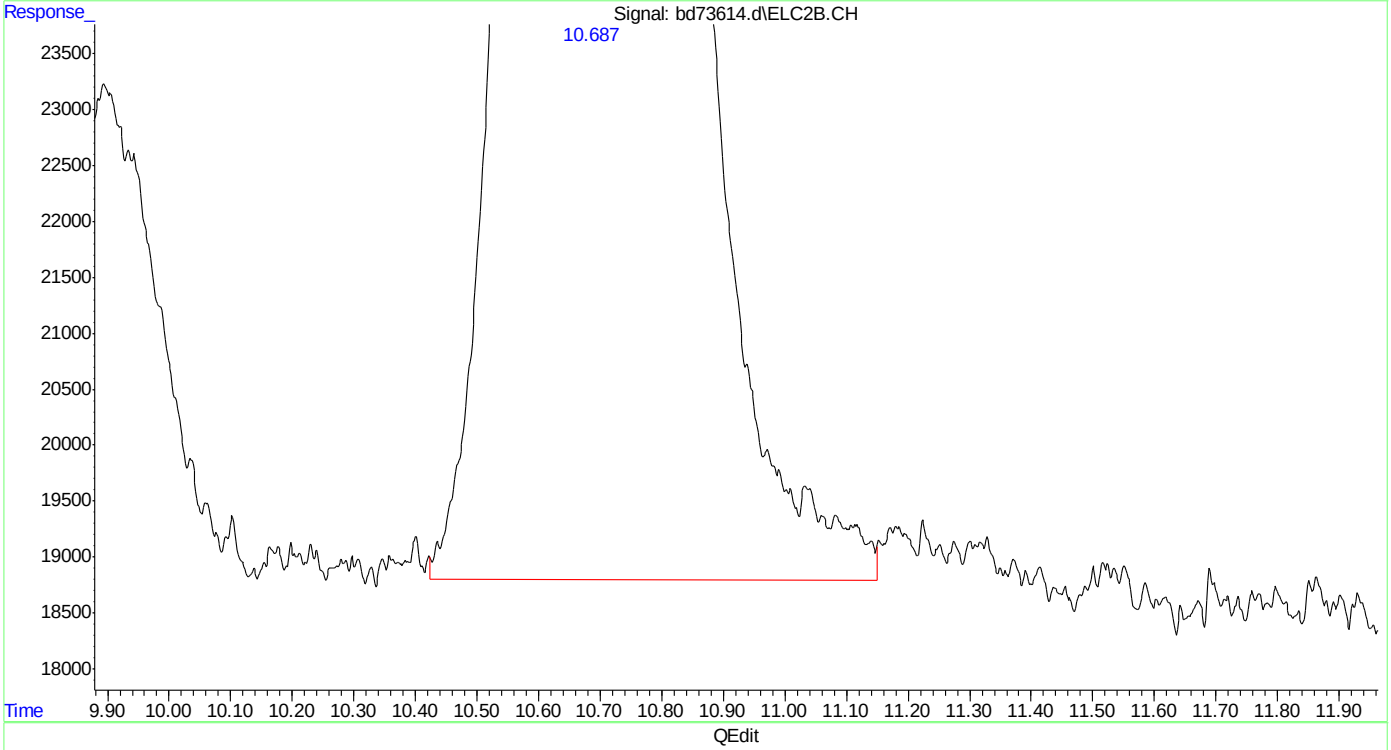
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 12:12:46 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.687min 47.276 ppb m
response 7285620

(+) = Expected Retention Time
bd160518vph.M Wed May 18 12:13:37 2016

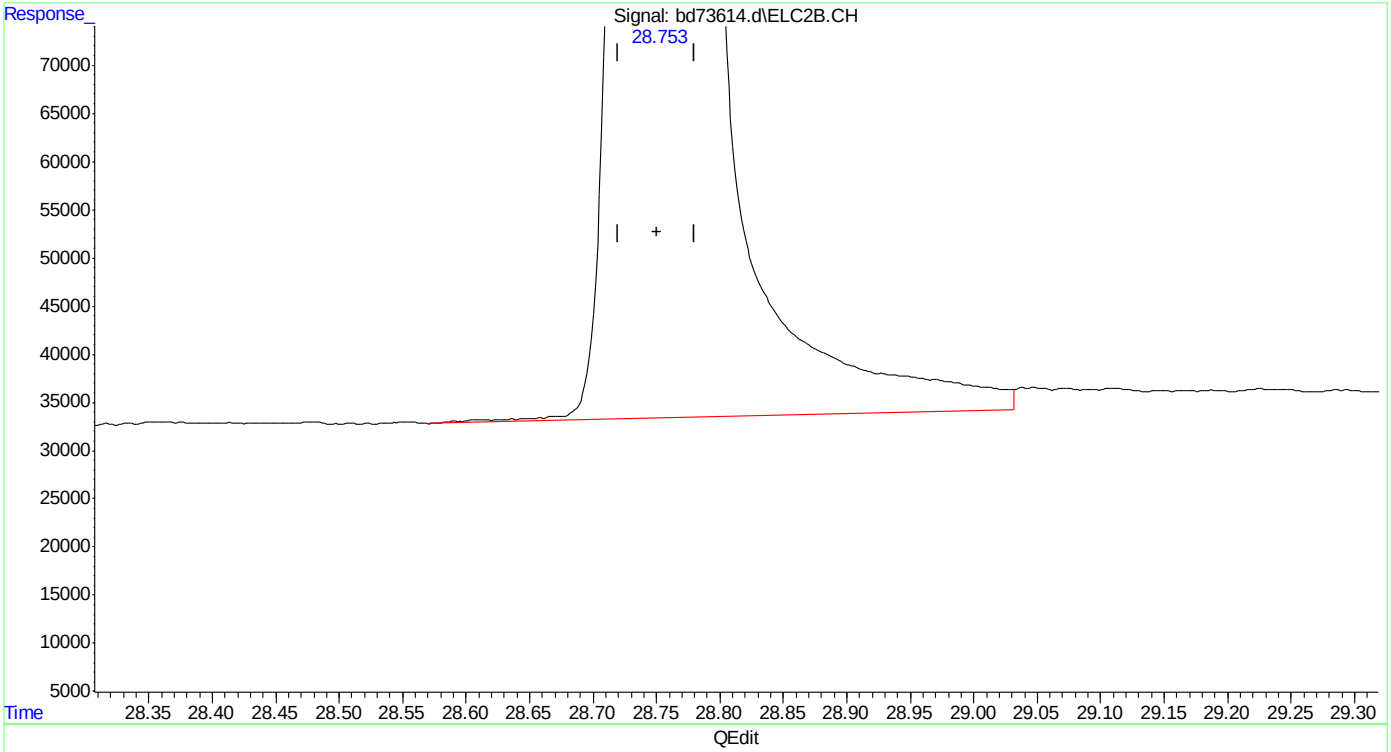
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,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 18 12:12:46 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

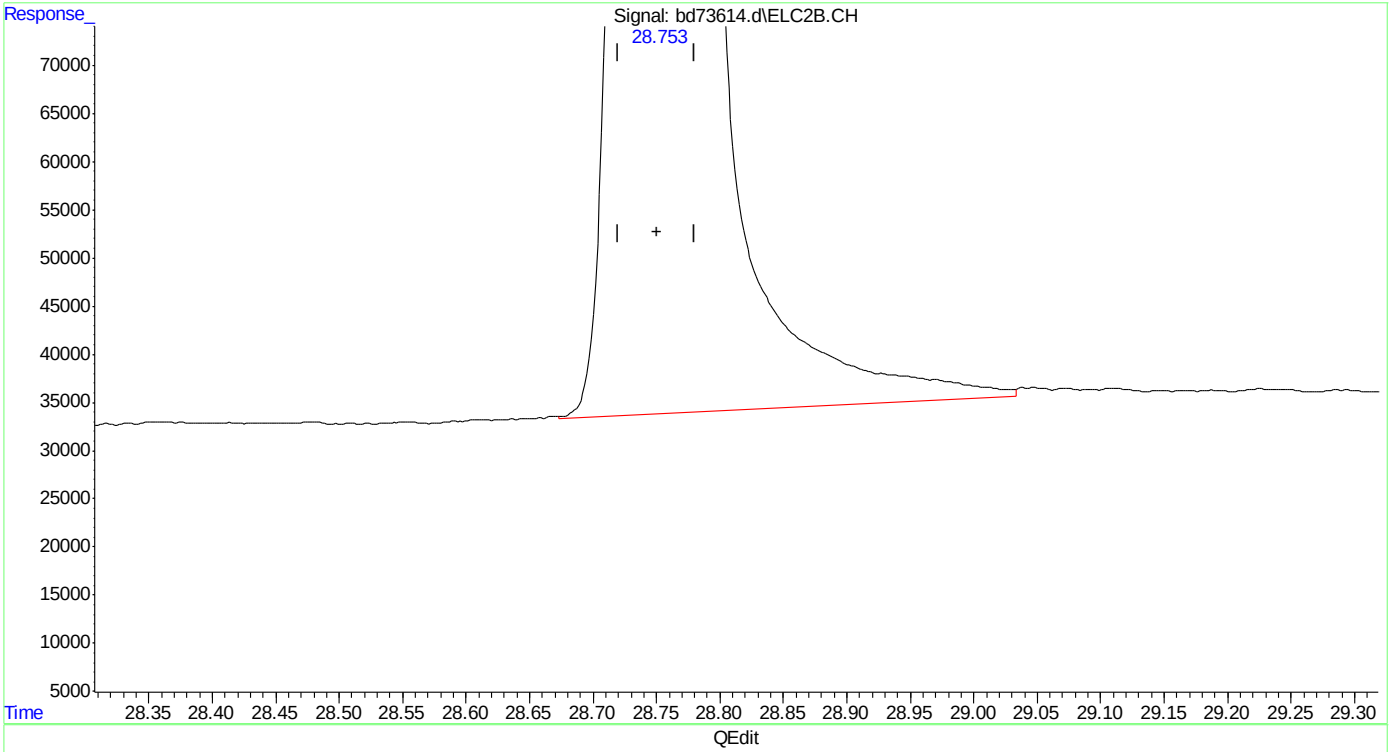


(24) naphthalene #2
28.754min 59.181 ppb
response 21377065

(+) = Expected Retention Time
bd160518vph.M Wed May 18 12:13:44 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 11:42:00
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26249,gbd3638,,,,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 18 12:12:46 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



(24) naphthalene #2

28.753min 58.708 ppb m

response 21204502

(+) = Expected Retention Time

bd160518vph.M Wed May 18 12:13:49 2016

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/20/16 10:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614d.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26255,gbd3642 ,,,,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 18 12:22:21 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial 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 #2	16.424	14564891	42.932	ppb	
Spiked Amount 50.000		Recovery =	85.86%		
6) s 2,3,4-trifluorotoluen...	21.237	8458264	42.967	ppb	
Spiked Amount 50.000		Recovery =	85.93%		
Target Compounds					
2) mtbe #2	10.687	7286304	47.280	ppb	m
3) benzene #2	15.931	22365718	46.248	ppb	
5) toluene #2	20.220	21011312	46.411	ppb	
7) ethylbenzene #2	23.172	18805698	45.314	ppb	
8) m,p-xylene #2	23.308	45434249	91.152	ppb	
9) o-xylene #2	24.029	19167278	44.084	ppb	
10) t 1,3,5-trimethylbenzen...	25.271	27117859	40.412	ppb	
11) 1,2,4-trimethylbenzen...	25.749	21351151	43.408	ppb	
12) naphthalene #2	28.753	21146660	58.549	ppb	m

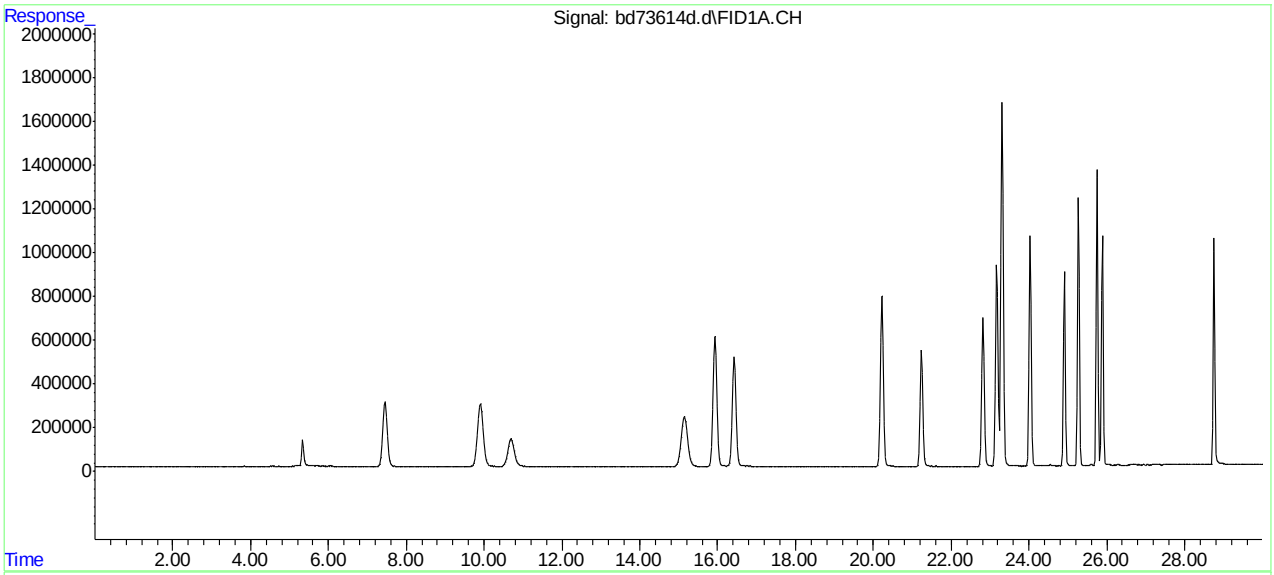
(f)=RT Delta > 1/2 Window (m)=manual int.

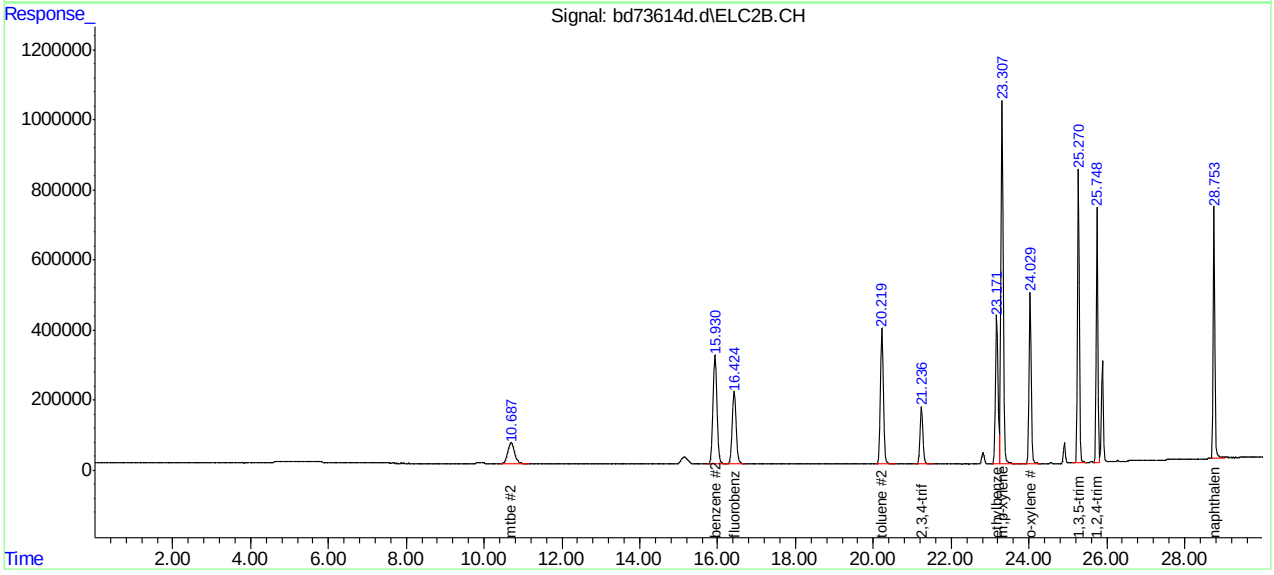
Quantitation Report (QT Reviewed)

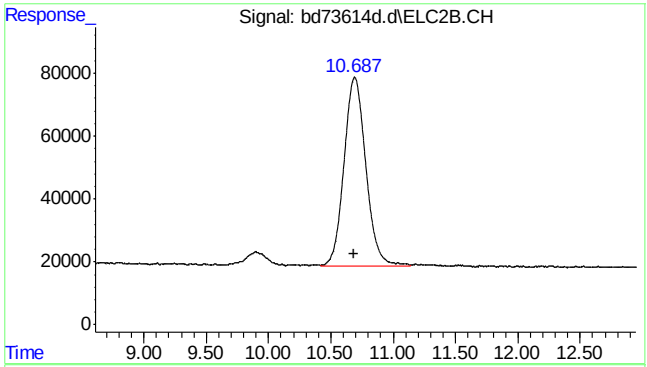
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614d.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26255,gbd3642 ,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 12:22:21 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

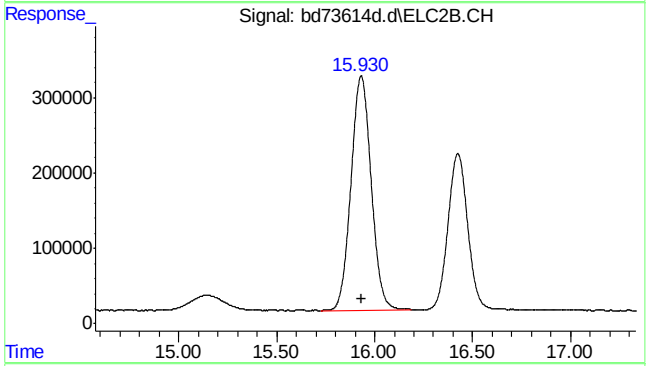






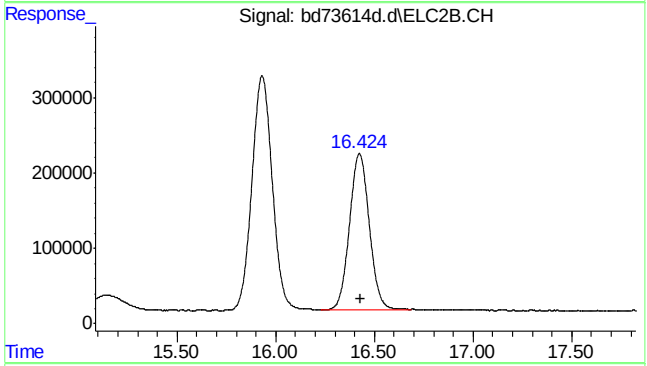
#2 mtbe #2

```
      R.T.:   10.687 min
Delta R.T.:    0.000 min
  Response:   7286304
      Conc:  47.28 ppb m
```



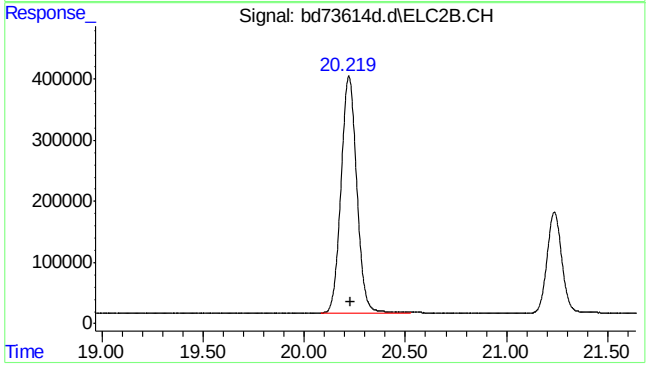
#3 benzene #2

```
      R.T.:   15.931 min
Delta R.T.:   -0.004 min
  Response:  22365718
      Conc:  46.25 ppb
```



#4 fluorobenzene #2

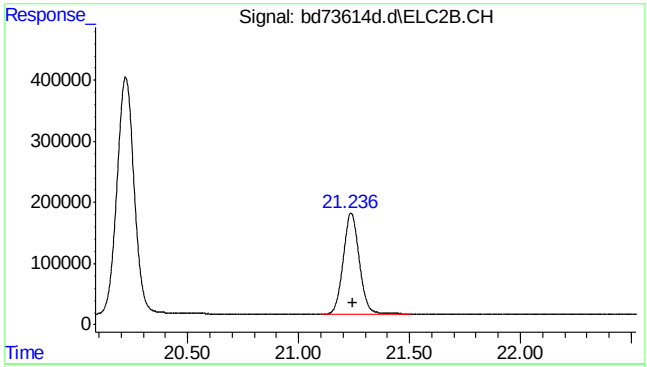
```
      R.T.:   16.424 min
Delta R.T.:   -0.004 min
  Response:  14564891
      Conc:  42.93 ppb
```



#5 toluene #2

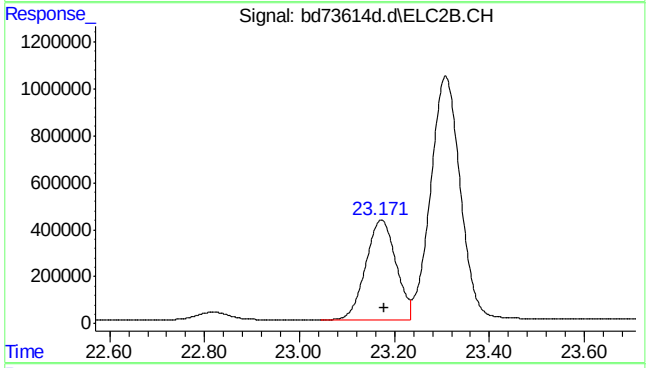
```
      R.T.:   20.220 min
Delta R.T.:   -0.006 min
  Response:  21011312
      Conc:  46.41 ppb
```


SGS ACCUTEST MC45969



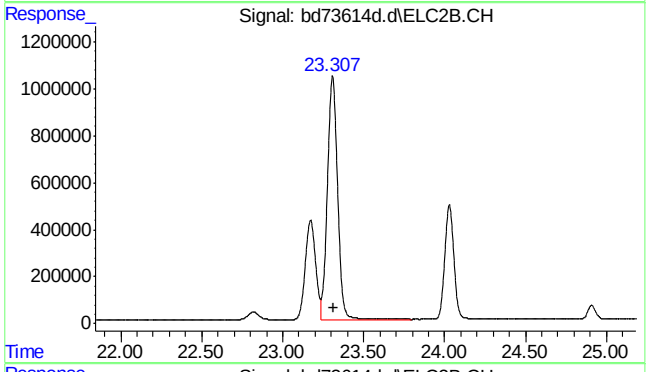
#6 2,3,4-trifluorotoluene #2

```
      R.T.:   21.237 min
Delta R.T.:   -0.006 min
  Response:   8458264
      Conc:  42.97 ppb
```



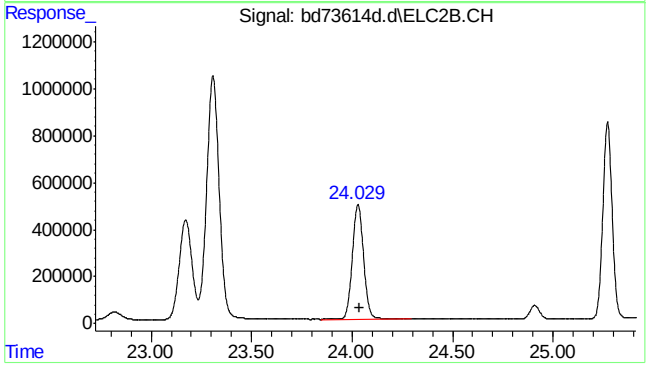
#7 ethylbenzene #2

```
      R.T.:   23.172 min
Delta R.T.:   -0.006 min
  Response:  18805698
      Conc:  45.31 ppb
```



#8 m,p-xylene #2

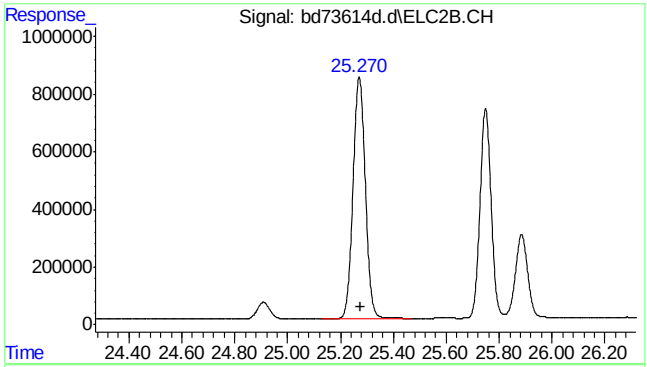
```
      R.T.:   23.308 min
Delta R.T.:   -0.006 min
  Response:  45434249
      Conc:  91.15 ppb
```



#9 o-xylene #2

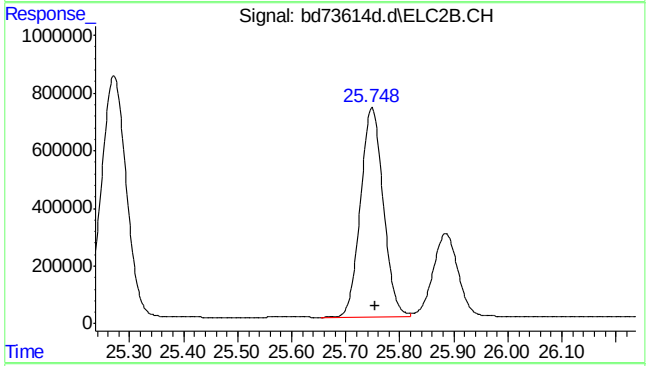
```
      R.T.:   24.029 min
Delta R.T.:   -0.006 min
  Response:  19167278
      Conc:  44.08 ppb
```


SGS ACCUTEST MC45969



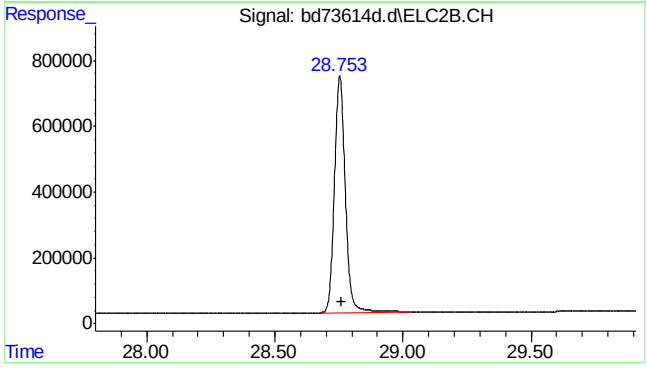
#10 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: -0.006 min
Response: 27117859
Conc: 40.41 ppb



#11 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: -0.006 min
Response: 21351151
Conc: 43.41 ppb



#12 naphthalene #2

R.T.: 28.753 min
Delta R.T.: -0.007 min
Response: 21146660
Conc: 58.55 ppb m

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/20/16 09:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26252,gbd3639,,,,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 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	34258956	50.351 ppb	
Spiked Amount 50.000		Recovery	= 100.70%	
6) s 2,3,4-trifluorotoluene	21.238	26334601	50.546 ppb	
Spiked Amount 50.000		Recovery	= 101.09%	
16) s fluorobenzene #2	16.424	14564891	42.932 ppb	
Spiked Amount 50.000		Recovery	= 85.86%	
18) s 2,3,4-trifluorotoluen...	21.237	8458264	42.967 ppb	
Spiked Amount 50.000		Recovery	= 85.93%	
Target Compounds				
1) h rt5.5-7	7.470	24254782	39.327 ppb	m
2) h rt7/10	9.920	29919709	48.512 ppb	m
3) h rt10/13	15.200	26325598	42.685 ppb	m
8) h rt20/25	22.840	32049309	40.050 ppb	m
10) h decane	24.930	30225099	37.771 ppb	
11) h butylcyclohexane	25.908	34513154	43.129 ppb	
14) mtbe #2	10.687	7285620	47.276 ppb	m
15) benzene #2	15.931	22365718	46.248 ppb	
17) toluene #2	20.220	21011312	46.411 ppb	
19) ethylbenzene #2	23.172	18805698	45.314 ppb	
20) m,p-xylene #2	23.308	45434249	91.152 ppb	
21) o-xylene #2	24.029	19167278	44.084 ppb	
22) t 1,3,5-trimethylbenzen...	25.271	27117859	40.412 ppb	
23) 1,2,4-trimethylbenzen...	25.749	21351151	43.408 ppb	
24) naphthalene #2	28.753	21204502	58.708 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21343374	43.412 ppb	m

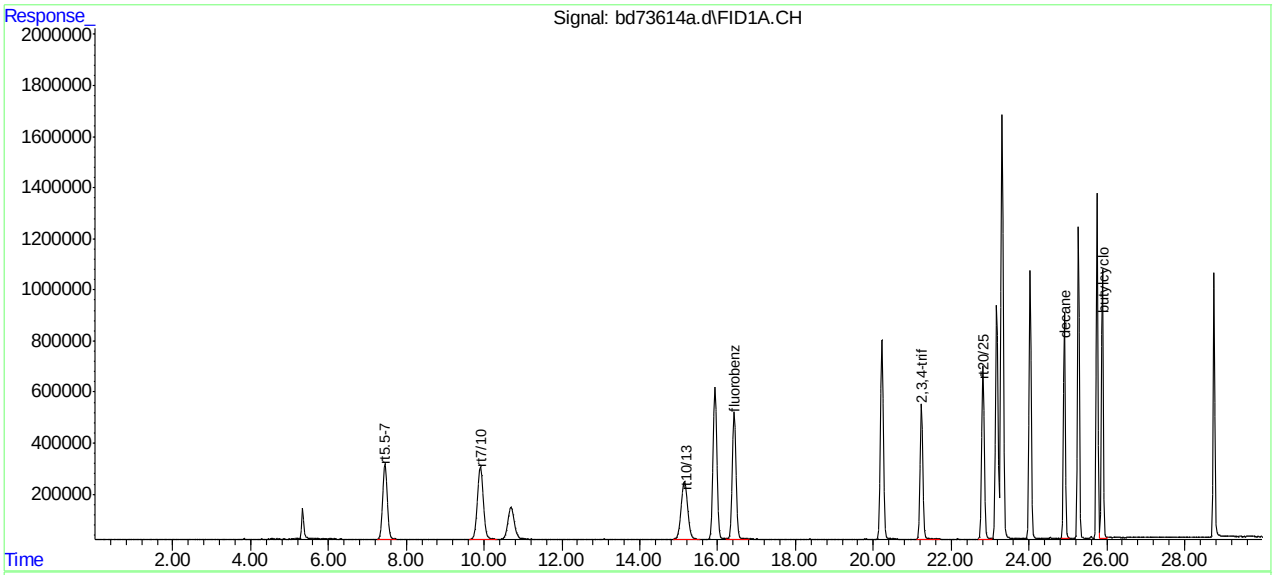
(f)=RT Delta > 1/2 Window (m)=manual int.

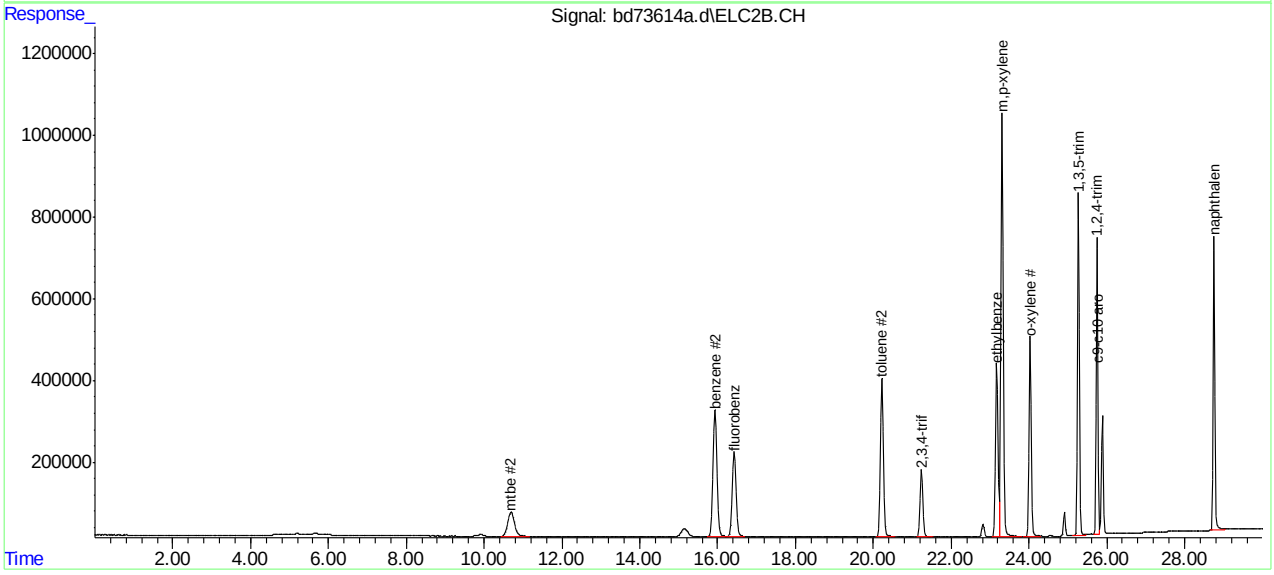
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26252,gbd3639,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

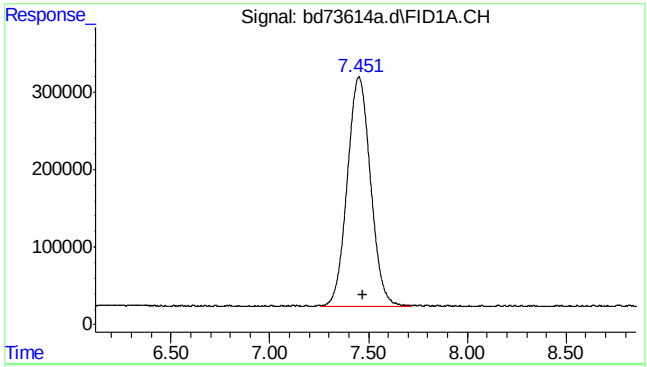
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



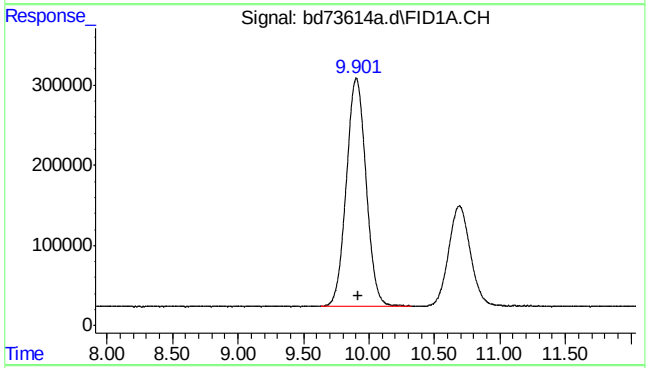


SGS ACCUTEST MC45969



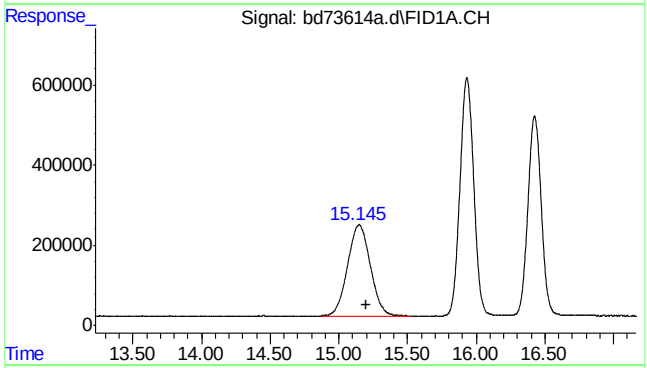
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 24254782
Conc: 39.33 ppb m



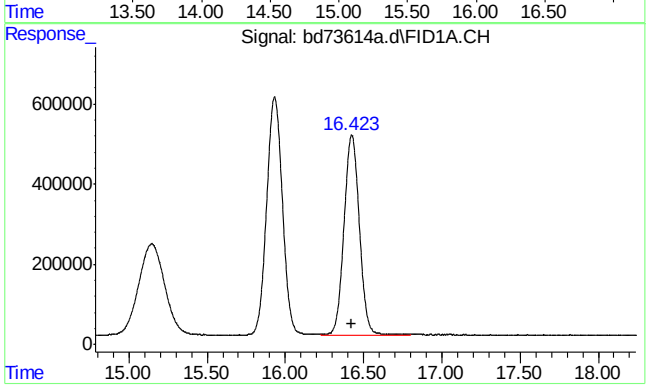
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 29919709
Conc: 48.51 ppb m



#3 rt10/13

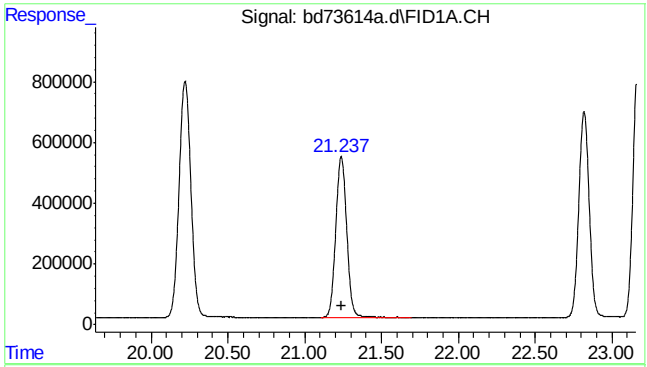
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 26325598
Conc: 42.68 ppb m



#4 fluorobenzene

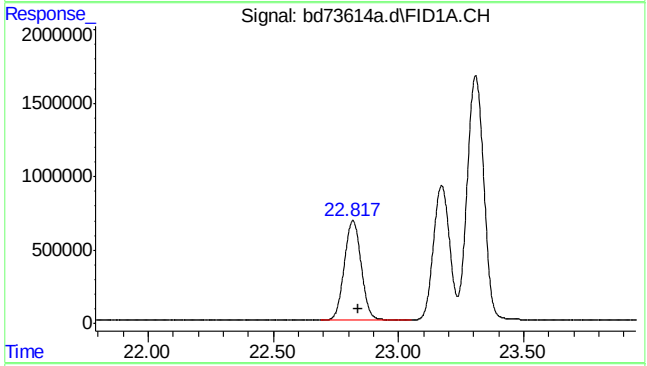
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 34258956
Conc: 50.35 ppb

SGS ACCUTEST MC45969



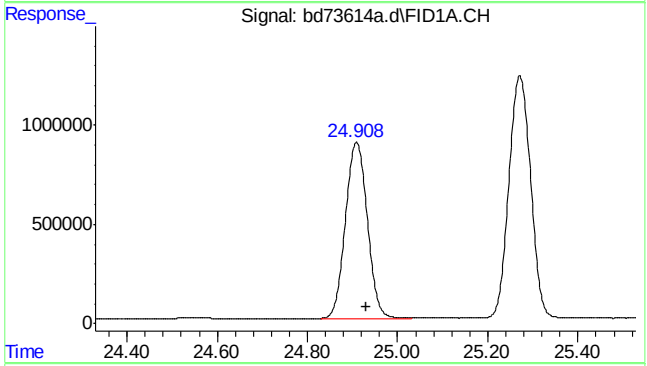
#6 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 26334601
Conc: 50.55 ppb



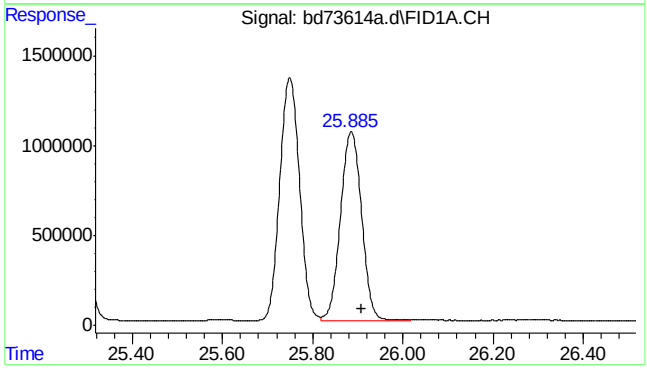
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32049309
Conc: 40.05 ppb m



#10 decane

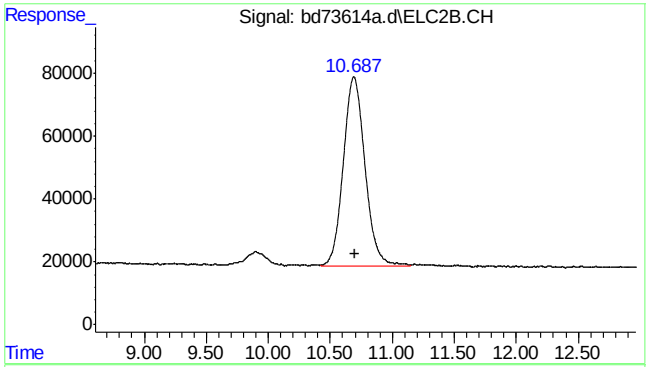
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30225099
Conc: 37.77 ppb



#11 butylcyclohexane

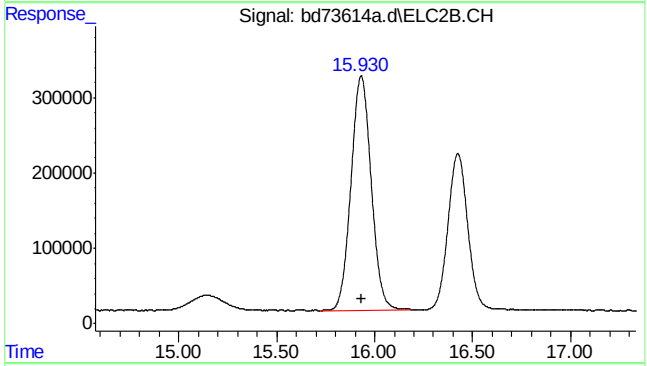
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 34513154
Conc: 43.13 ppb

SGS ACCUTEST MC45969



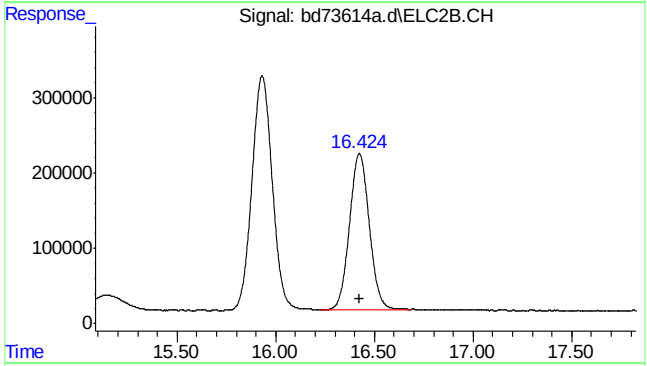
#14 mtbe #2

R.T.: 10.687 min
Delta R.T.: -0.009 min
Response: 7285620
Conc: 47.28 ppb m



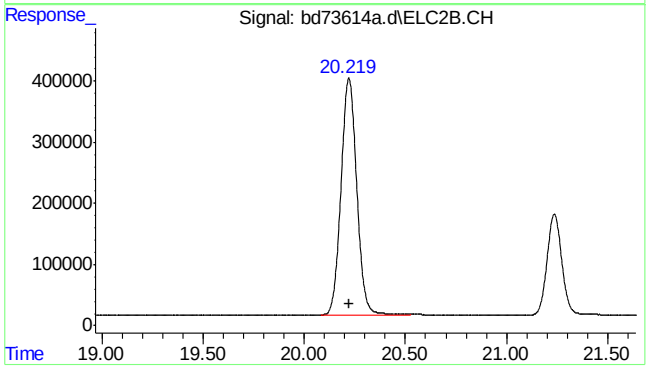
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 22365718
Conc: 46.25 ppb



#16 fluorobenzene #2

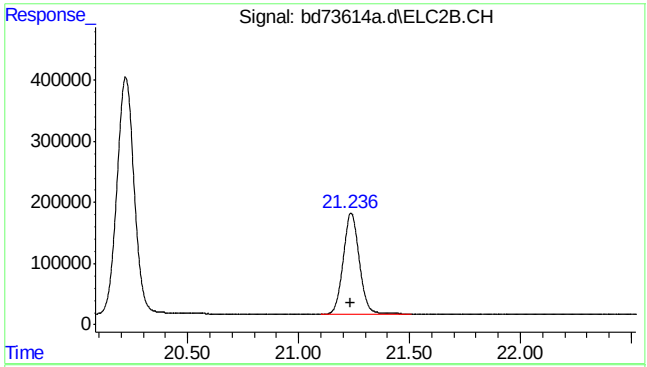
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 14564891
Conc: 42.93 ppb



#17 toluene #2

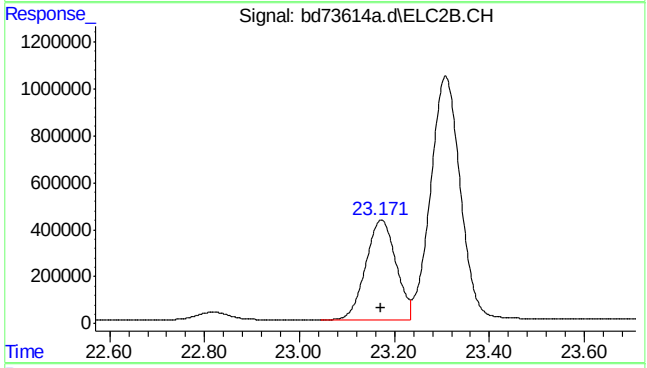
R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 21011312
Conc: 46.41 ppb

SGS ACCUTEST MC45969



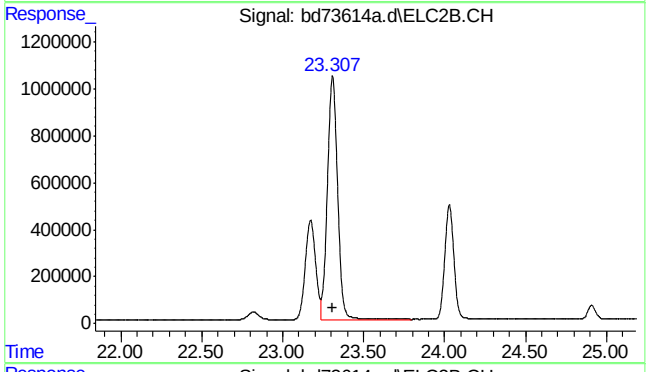
#18 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 8458264
Conc: 42.97 ppb



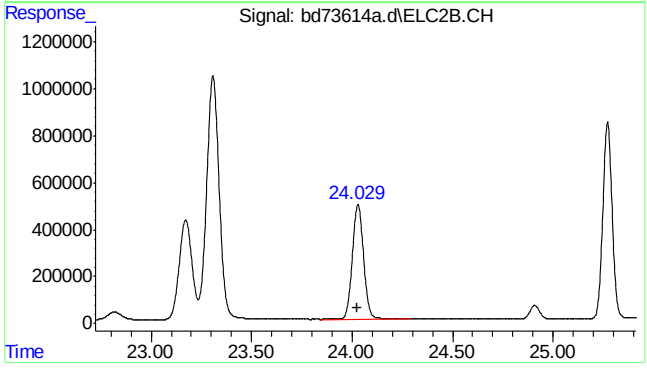
#19 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 18805698
Conc: 45.31 ppb



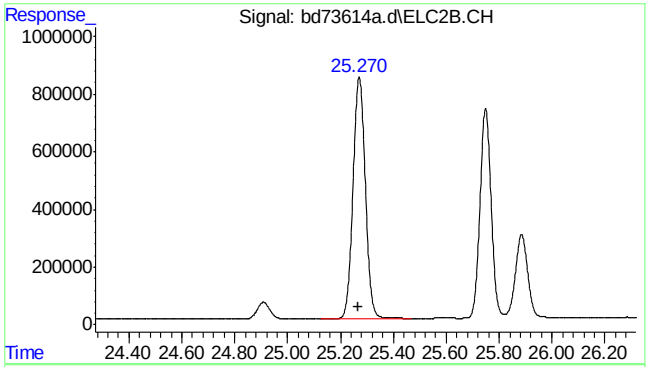
#20 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.000 min
Response: 45434249
Conc: 91.15 ppb



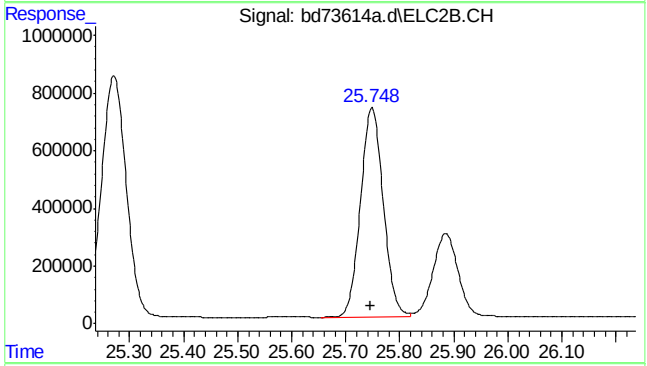
#21 o-xylene #2

R.T.: 24.029 min
Delta R.T.: 0.001 min
Response: 19167278
Conc: 44.08 ppb



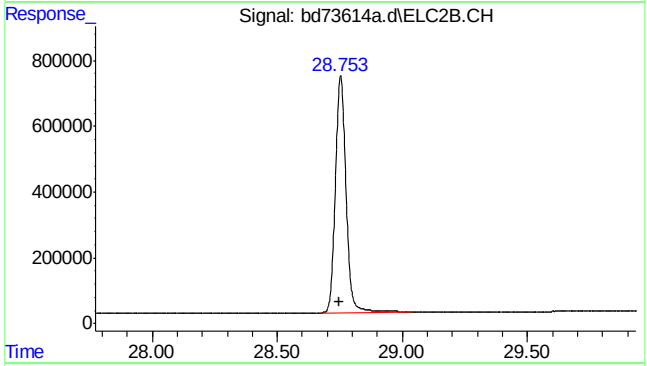
#22 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 27117859
Conc: 40.41 ppb



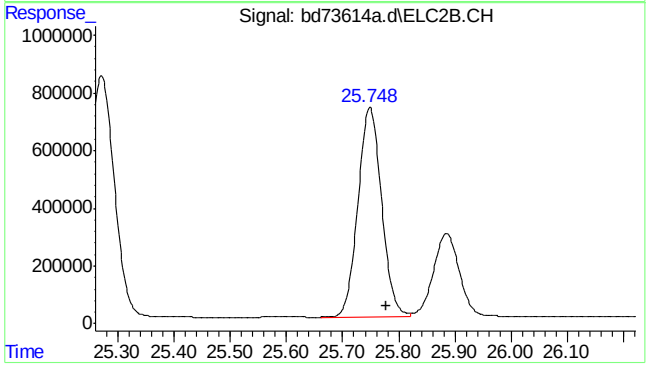
#23 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 21351151
Conc: 43.41 ppb



#24 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 21204502
Conc: 58.71 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21343374
Conc: 43.41 ppb m

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/20/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26254,gbd3640,,,,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 18 12:22:21 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

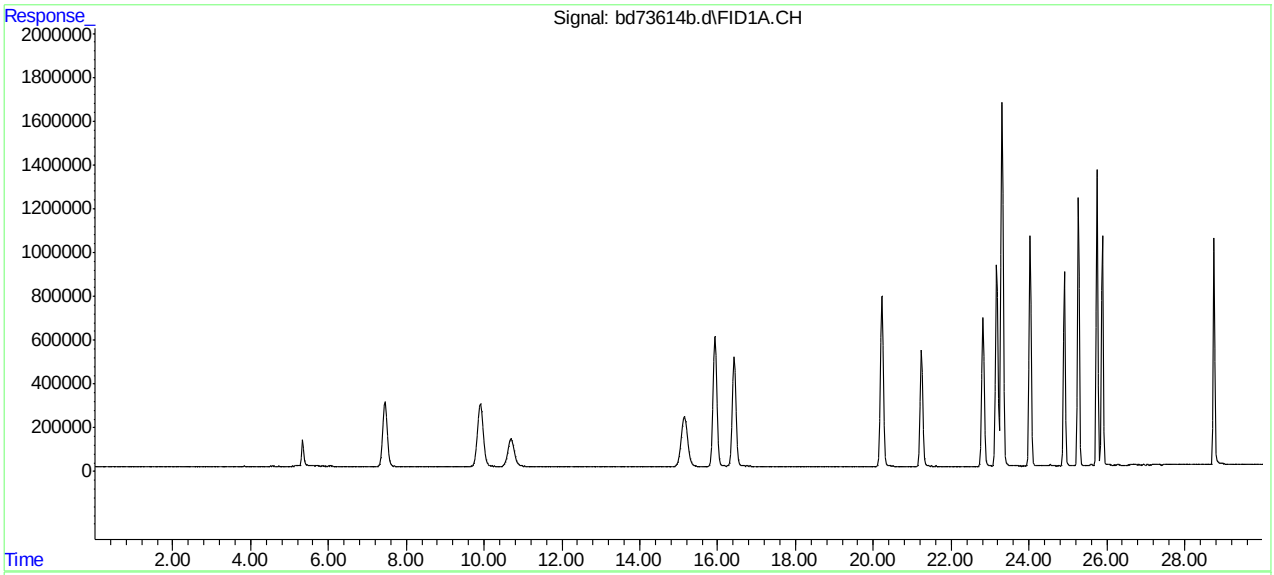
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

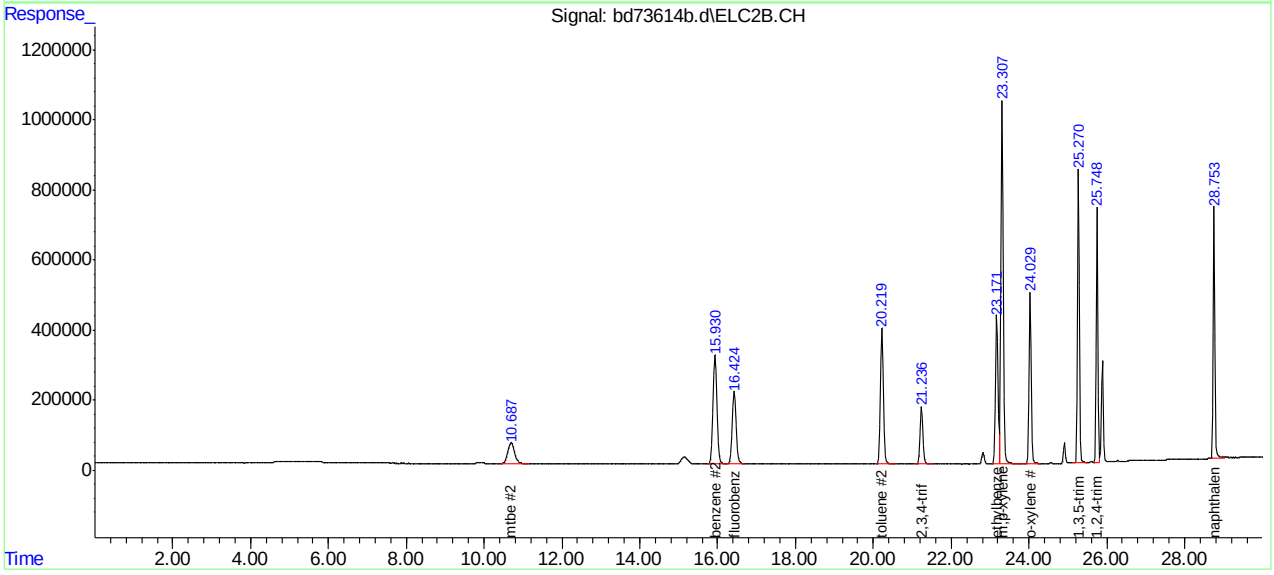
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene #2	16.424	14564891	42.932	ppb	
Spiked Amount 50.000		Recovery =	85.86%		
6) s 2,3,4-trifluorotoluen...	21.237	8458264	42.967	ppb	
Spiked Amount 50.000		Recovery =	85.93%		
Target Compounds					
2) mtbe #2	10.687	7286304	47.280	ppb	m
3) benzene #2	15.931	22365718	46.248	ppb	
5) toluene #2	20.220	21011312	46.411	ppb	
7) ethylbenzene #2	23.172	18805698	45.314	ppb	
8) m,p-xylene #2	23.308	45434249	91.152	ppb	
9) o-xylene #2	24.029	19167278	44.084	ppb	
10) t 1,3,5-trimethylbenzen...	25.271	27117859	40.412	ppb	
11) 1,2,4-trimethylbenzen...	25.749	21351151	43.408	ppb	
12) naphthalene #2	28.753	21146660	58.549	ppb	m

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

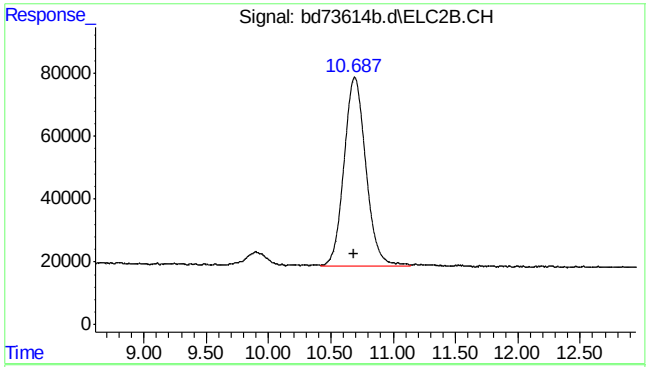
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 18-May-16, 11:42:00
Operator  : tonyf
Sample    : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26254,gbd3640,,,,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 18 12:22:21 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title  : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



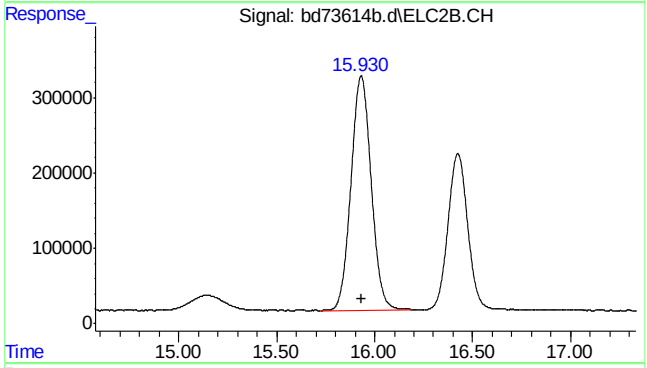


SGS ACCUTEST MC45969



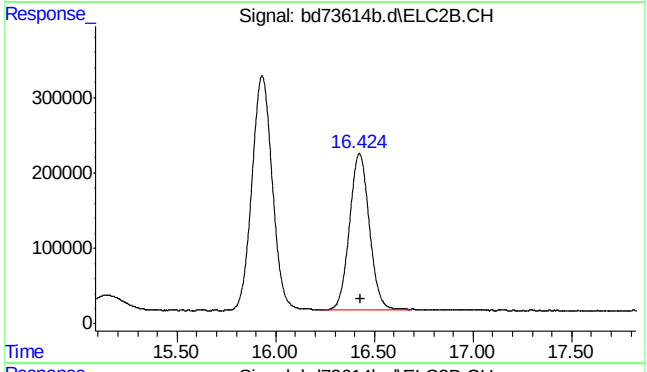
#2 mtbe #2

R.T.: 10.687 min
Delta R.T.: 0.000 min
Response: 7286304
Conc: 47.28 ppb m



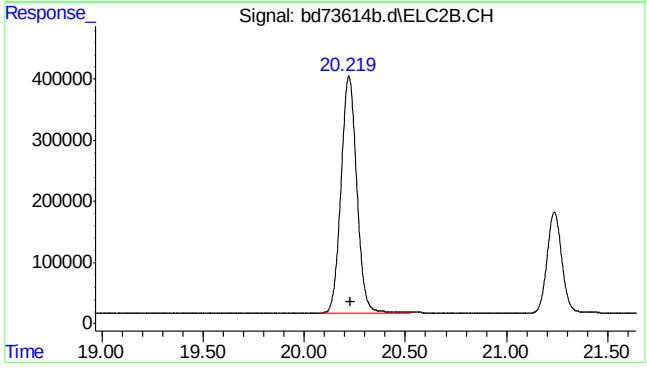
#3 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.004 min
Response: 22365718
Conc: 46.25 ppb



#4 fluorobenzene #2

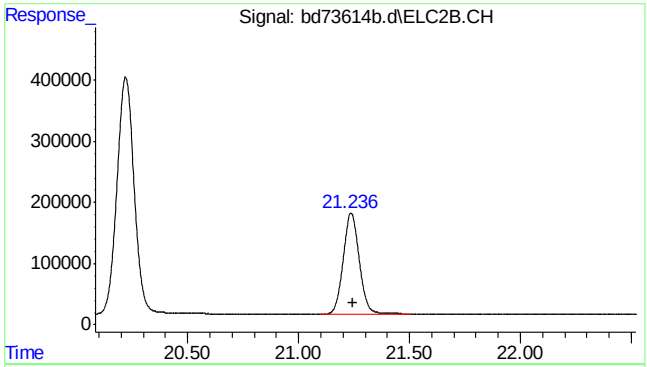
R.T.: 16.424 min
Delta R.T.: -0.004 min
Response: 14564891
Conc: 42.93 ppb



#5 toluene #2

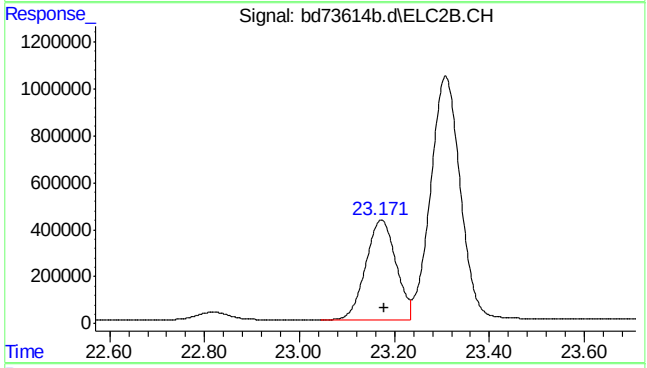
R.T.: 20.220 min
Delta R.T.: -0.006 min
Response: 21011312
Conc: 46.41 ppb

SGS ACCUTEST MC45969



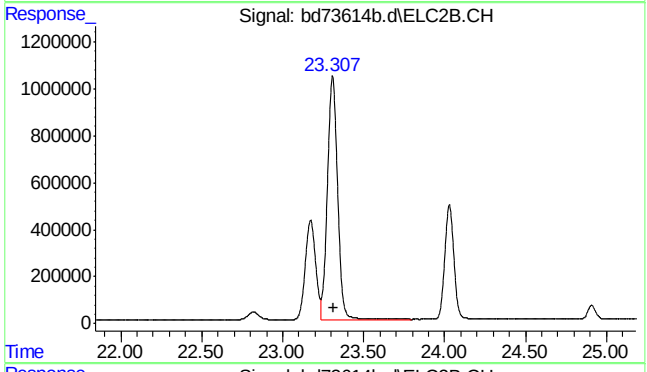
#6 2,3,4-trifluorotoluene #2

```
      R.T.:   21.237 min
Delta R.T.:   -0.006 min
  Response:   8458264
      Conc:  42.97 ppb
```



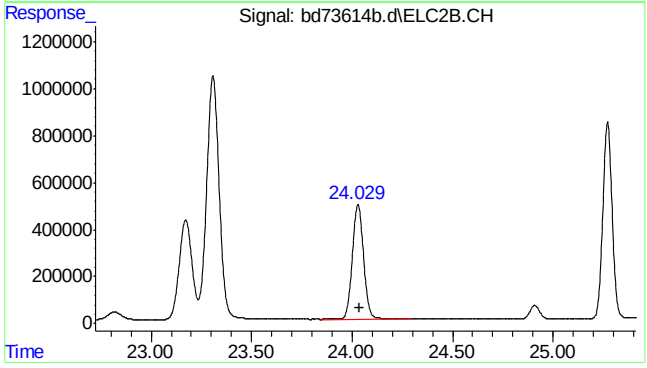
#7 ethylbenzene #2

```
      R.T.:   23.172 min
Delta R.T.:   -0.006 min
  Response:  18805698
      Conc:  45.31 ppb
```



#8 m,p-xylene #2

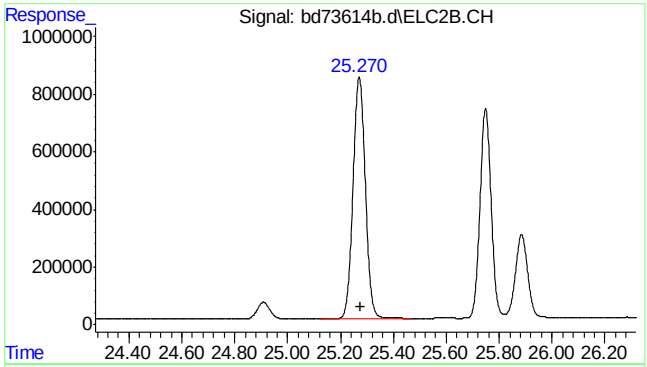
```
      R.T.:   23.308 min
Delta R.T.:   -0.006 min
  Response:  45434249
      Conc:  91.15 ppb
```



#9 o-xylene #2

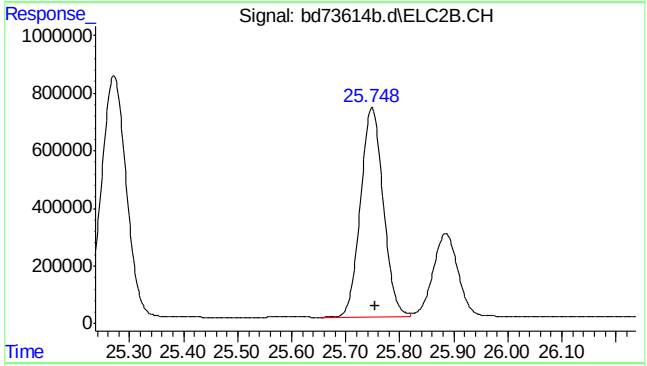
```
      R.T.:   24.029 min
Delta R.T.:   -0.006 min
  Response:  19167278
      Conc:  44.08 ppb
```


SGS ACCUTEST MC45969



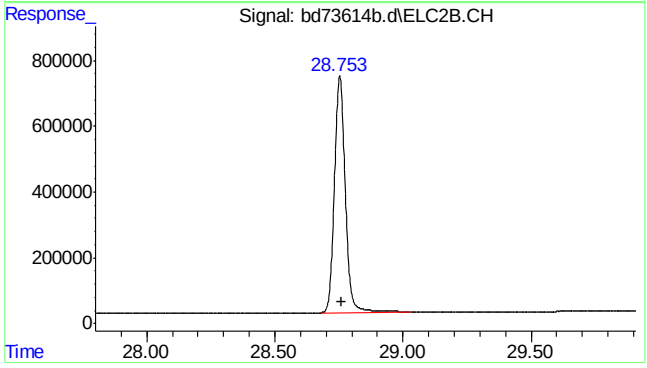
#10 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: -0.006 min
Response: 27117859
Conc: 40.41 ppb



#11 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: -0.006 min
Response: 21351151
Conc: 43.41 ppb



#12 naphthalene #2

R.T.: 28.753 min
Delta R.T.: -0.007 min
Response: 21146660
Conc: 58.55 ppb m

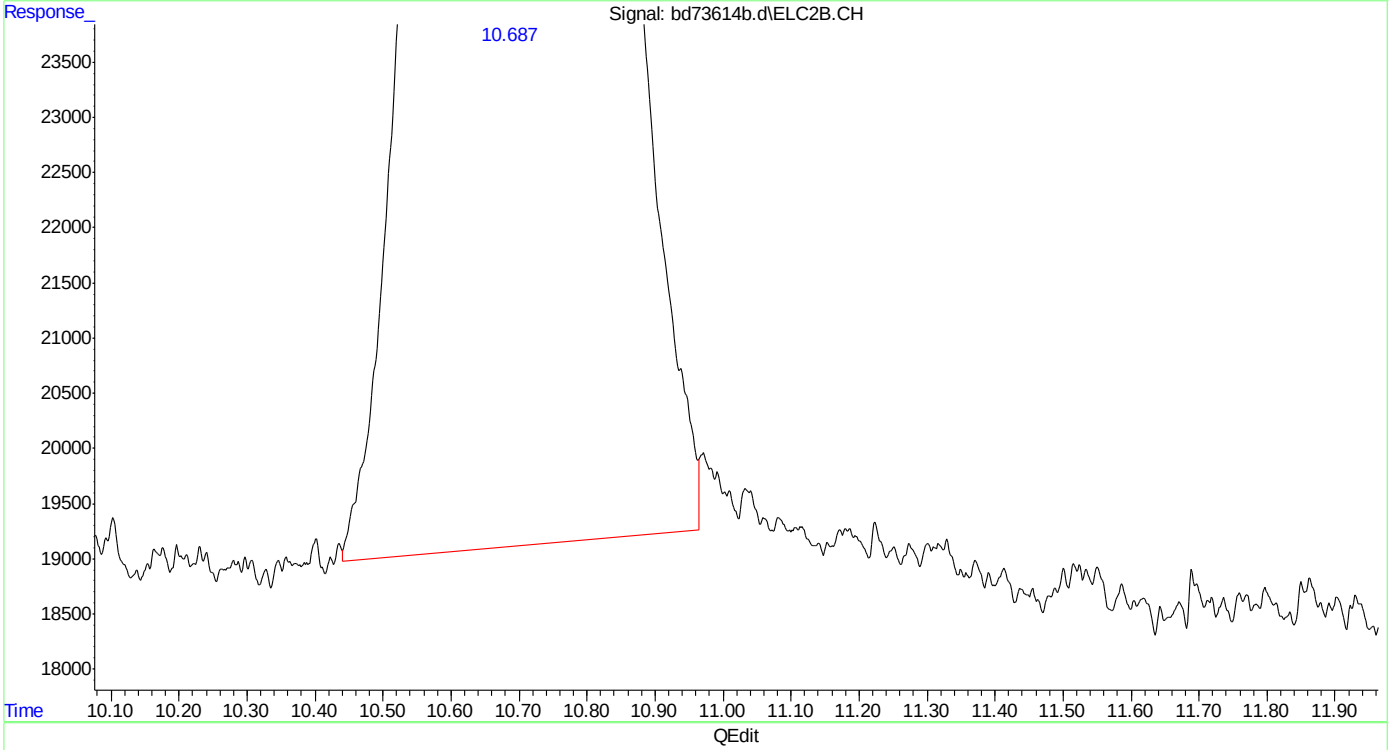
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26254,gbd3640 ,,,,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 18 12:21:52 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(2) mtbe #2
10.688min 46.129 ppb
response 7108934

(+) = Expected Retention Time
bd160518v8021btxmn.M Wed May 18 12:22:05 2016

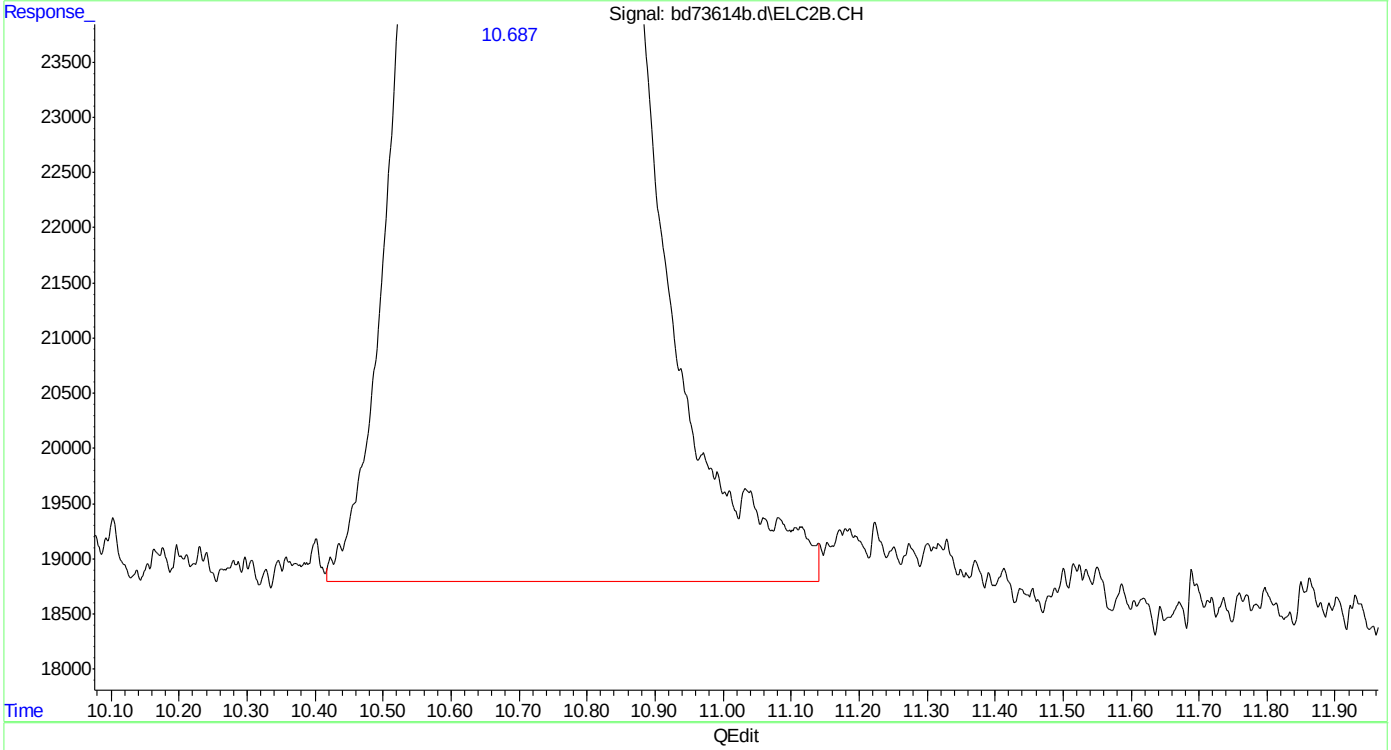
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26254,gbd3640 ,,,,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 18 12:21:52 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(2) mtbe #2
10.687min 47.280 ppb m
response 7286304

(+) = Expected Retention Time
bd160518v8021btxmn.M Wed May 18 12:22:09 2016

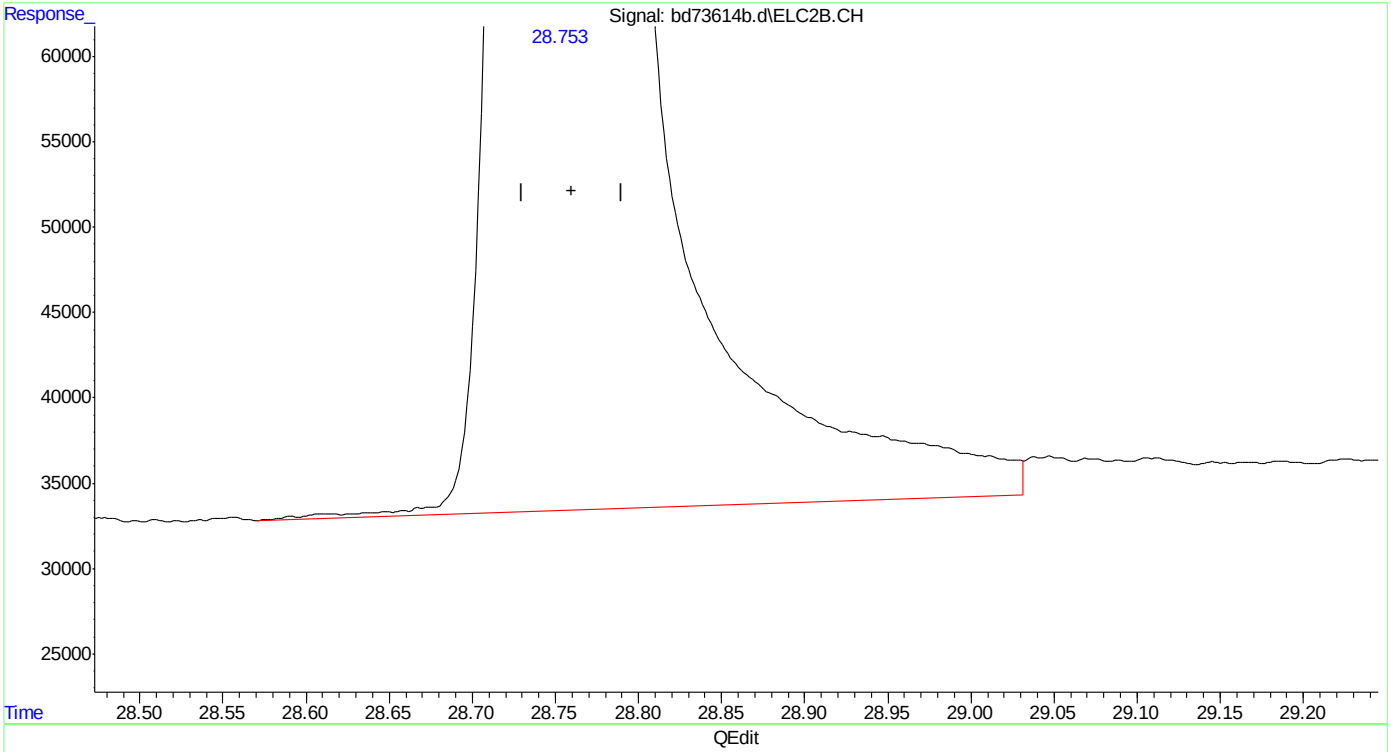
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26254,gbd3640 ,,,,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 18 12:21:52 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(12) naphthalene #2
28.754min 59.181 ppb
response 21377065

(+) = Expected Retention Time
bd160518v8021btxmn.M Wed May 18 12:22:18 2016

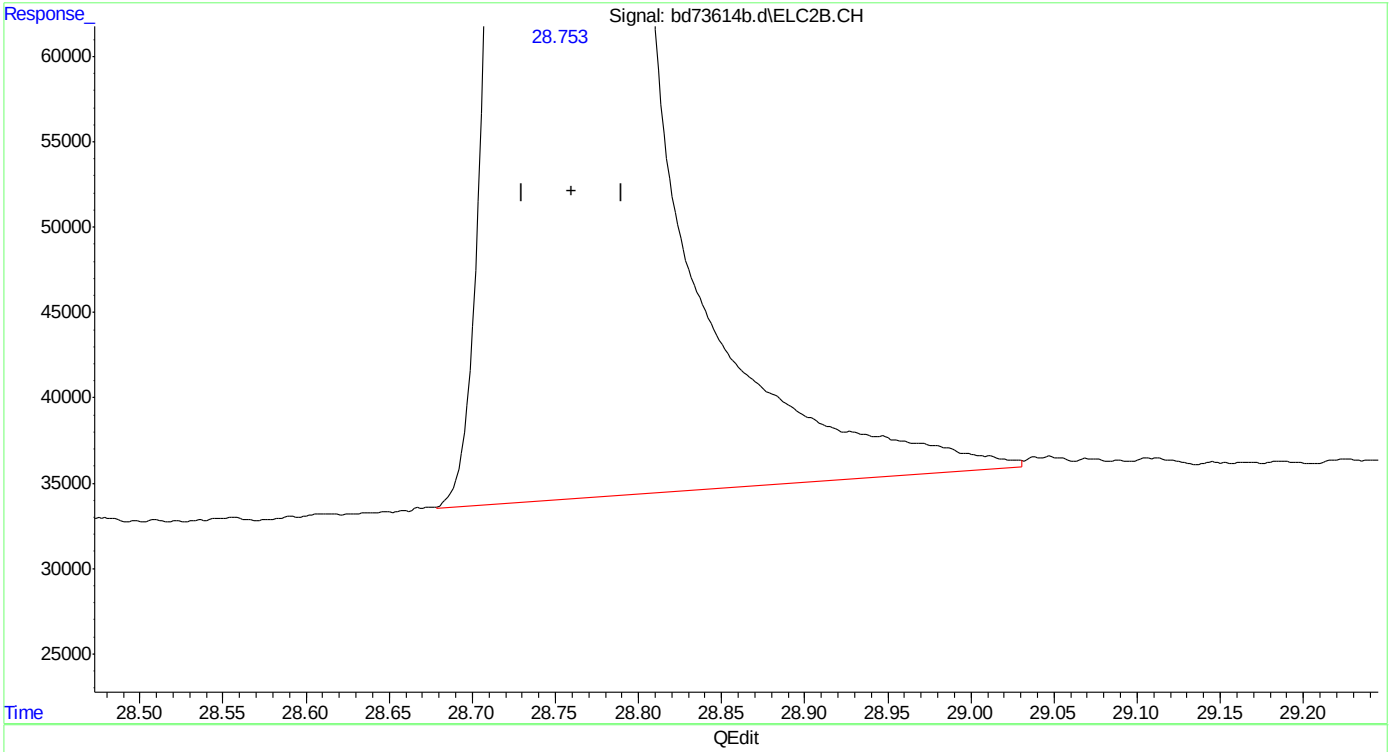
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26254,gbd3640 ,,,,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 18 12:21:52 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(12) naphthalene #2
28.753min 58.549 ppb m
response 21146660

(+) = Expected Retention Time
bd160518v8021btxmn.M Wed May 18 12:22:23 2016

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/20/16 09:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26253,gbd3641,,,,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 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	34258956	50.351 ppb	
Spiked Amount 50.000		Recovery	= 100.70%	
6) s 2,3,4-trifluorotoluene	21.238	26334601	50.546 ppb	
Spiked Amount 50.000		Recovery	= 101.09%	
16) s fluorobenzene #2	16.424	14564891	42.932 ppb	
Spiked Amount 50.000		Recovery	= 85.86%	
18) s 2,3,4-trifluorotoluen...	21.237	8458264	42.967 ppb	
Spiked Amount 50.000		Recovery	= 85.93%	
Target Compounds				
1) h rt5.5-7	7.470	24254782	39.327 ppb	m
2) h rt7/10	9.920	29919709	48.512 ppb	m
3) h rt10/13	15.200	26325598	42.685 ppb	m
8) h rt20/25	22.840	32049309	40.050 ppb	m
10) h decane	24.930	30225099	37.771 ppb	
11) h butylcyclohexane	25.908	34513154	43.129 ppb	
14) mtbe #2	10.687	7285620	47.276 ppb	m
15) benzene #2	15.931	22365718	46.248 ppb	
17) toluene #2	20.220	21011312	46.411 ppb	
19) ethylbenzene #2	23.172	18805698	45.314 ppb	
20) m,p-xylene #2	23.308	45434249	91.152 ppb	
21) o-xylene #2	24.029	19167278	44.084 ppb	
22) t 1,3,5-trimethylbenzen...	25.271	27117859	40.412 ppb	
23) 1,2,4-trimethylbenzen...	25.749	21351151	43.408 ppb	
24) naphthalene #2	28.753	21204502	58.708 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21343374	43.412 ppb	m

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

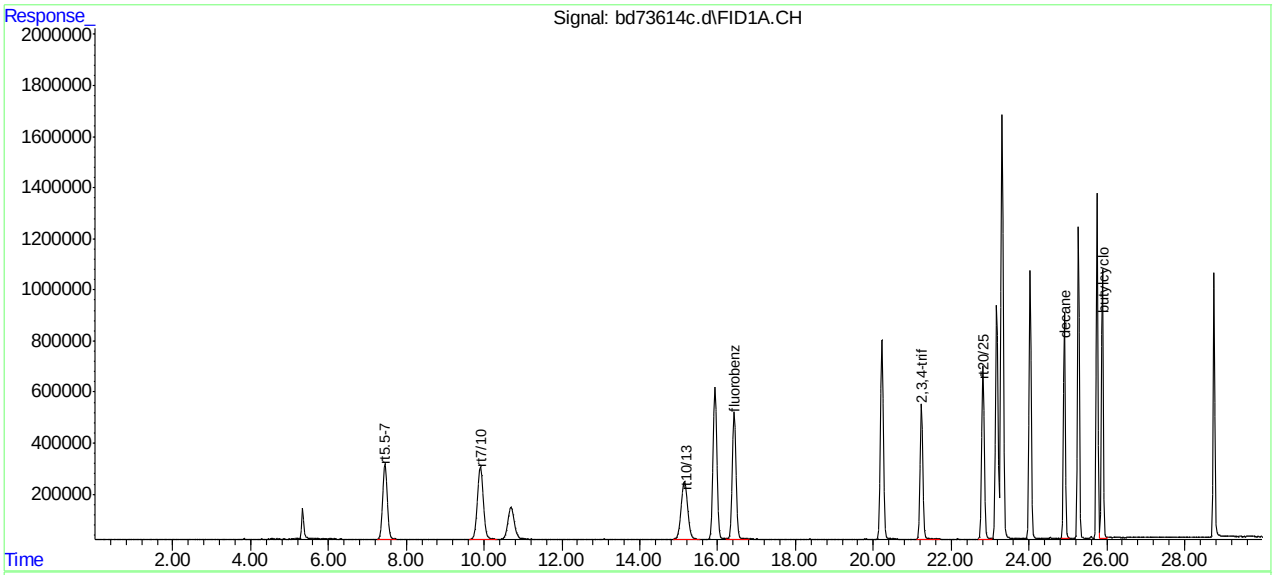
7.5.26
7

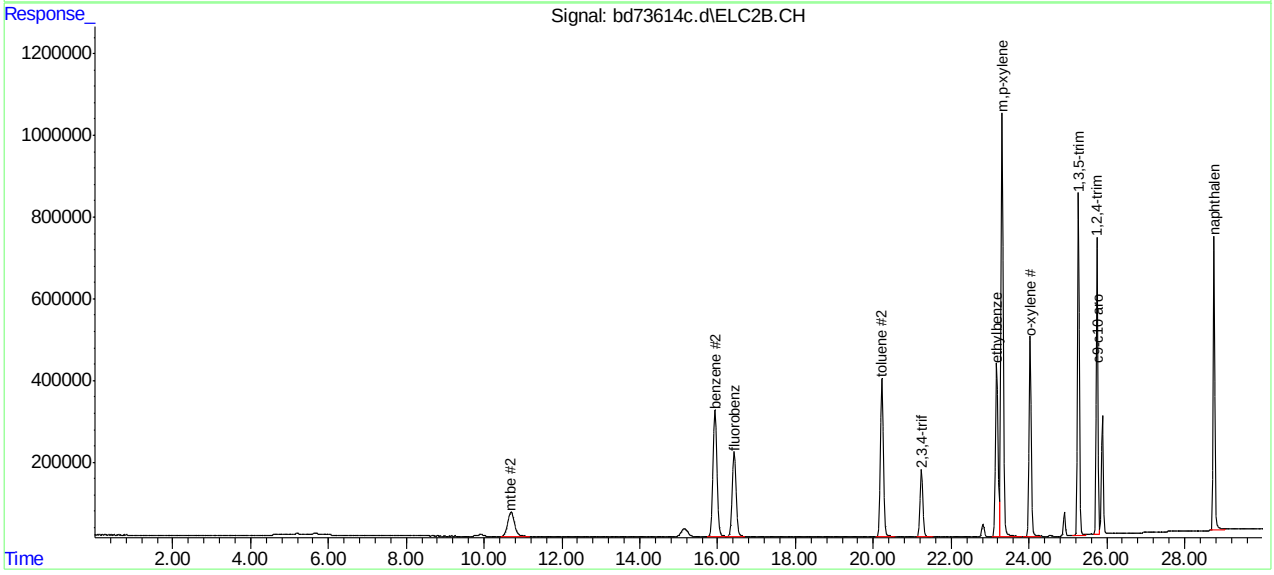
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73614c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 11:42:00
Operator : tonyf
Sample : cc3572-50
Misc : gc26253,gbd3641,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

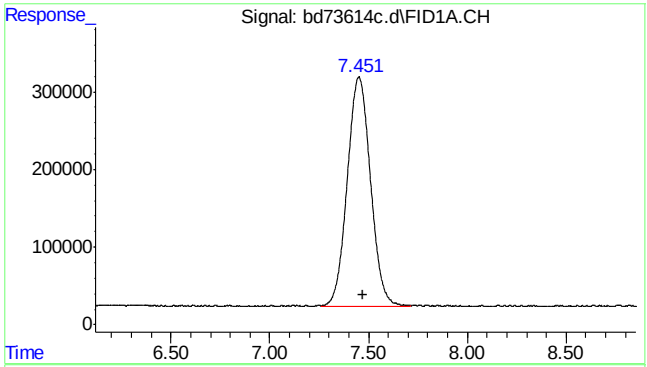
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 18 12:13:53 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



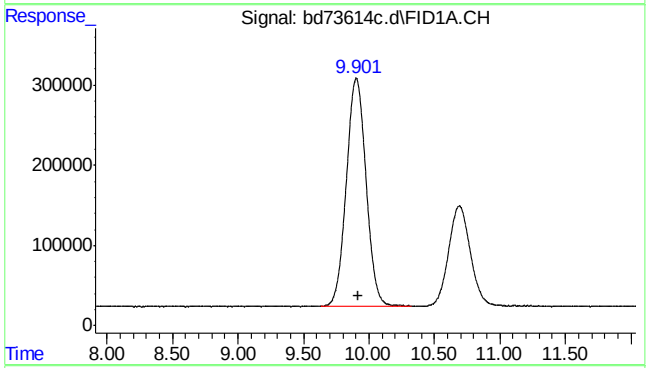


SGS ACCUTEST MC45969



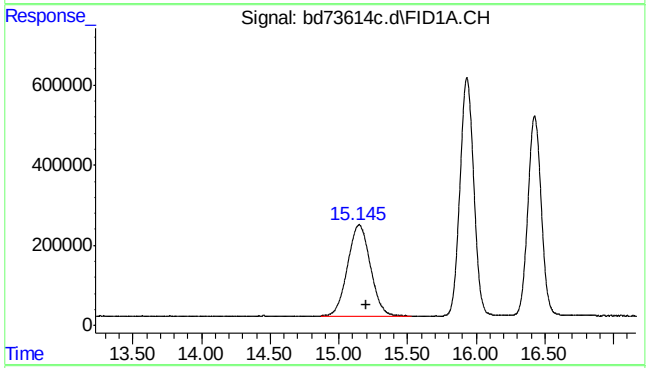
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 24254782
Conc: 39.33 ppb m



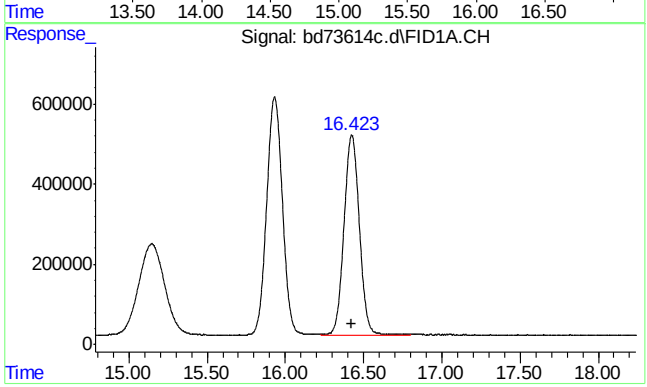
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 29919709
Conc: 48.51 ppb m



#3 rt10/13

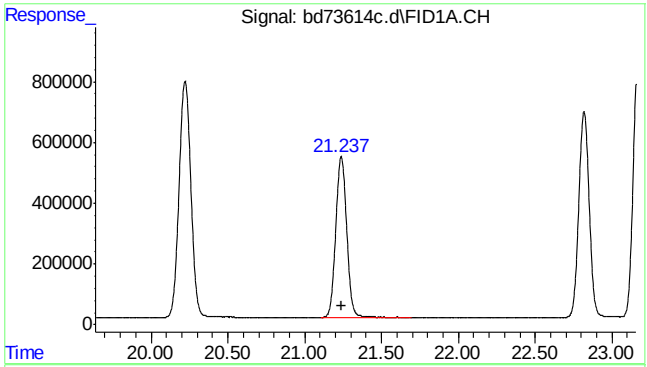
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 26325598
Conc: 42.68 ppb m



#4 fluorobenzene

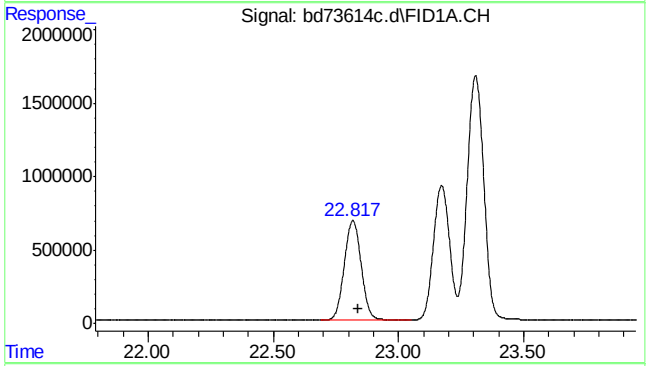
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 34258956
Conc: 50.35 ppb

SGS ACCUTEST MC45969



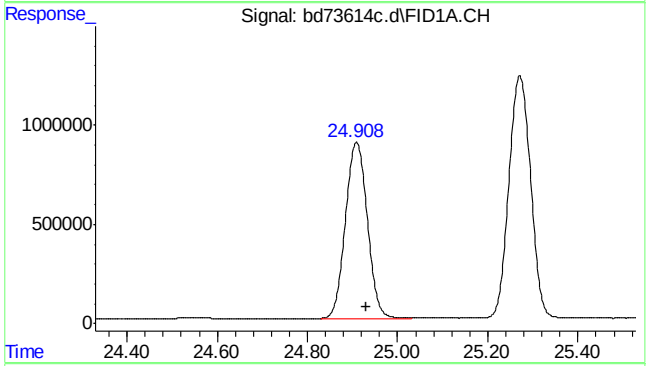
#6 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 26334601
Conc: 50.55 ppb



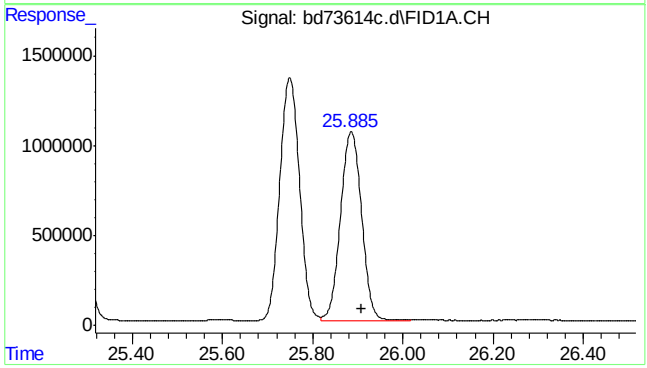
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32049309
Conc: 40.05 ppb m



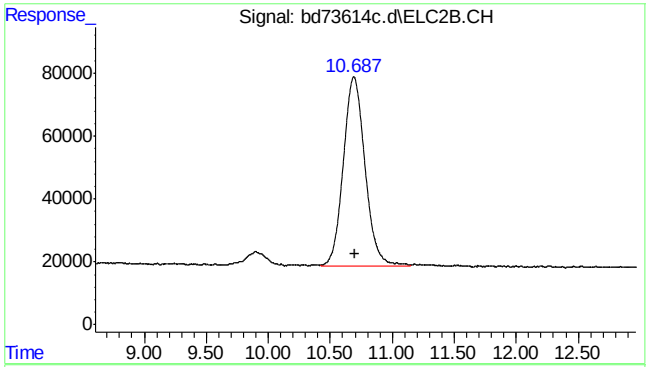
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30225099
Conc: 37.77 ppb



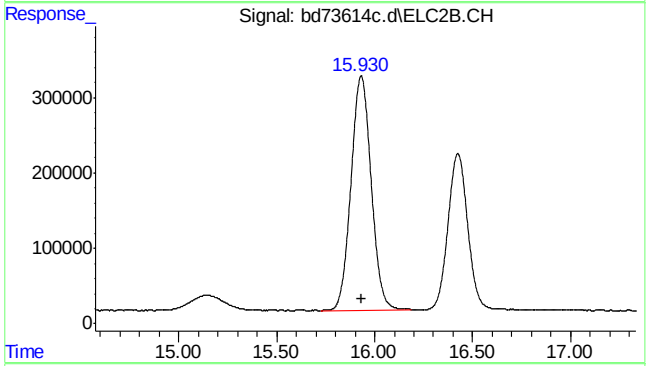
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 34513154
Conc: 43.13 ppb



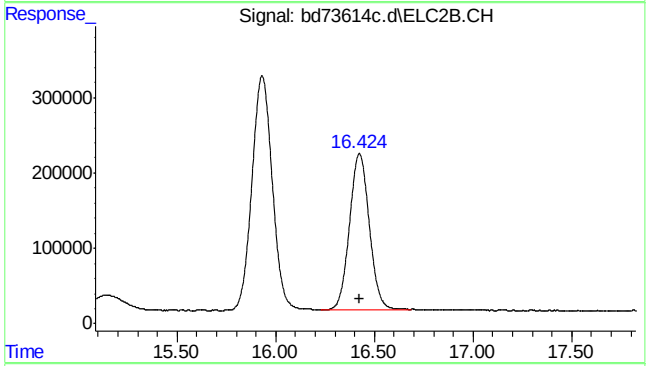
#14 mtbe #2

R.T.: 10.687 min
Delta R.T.: -0.009 min
Response: 7285620
Conc: 47.28 ppb m



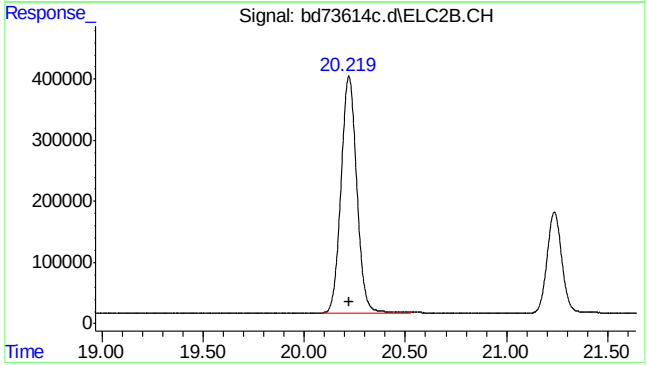
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 22365718
Conc: 46.25 ppb



#16 fluorobenzene #2

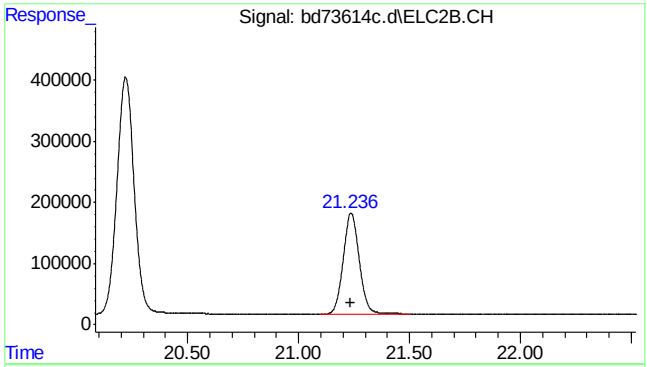
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 14564891
Conc: 42.93 ppb



#17 toluene #2

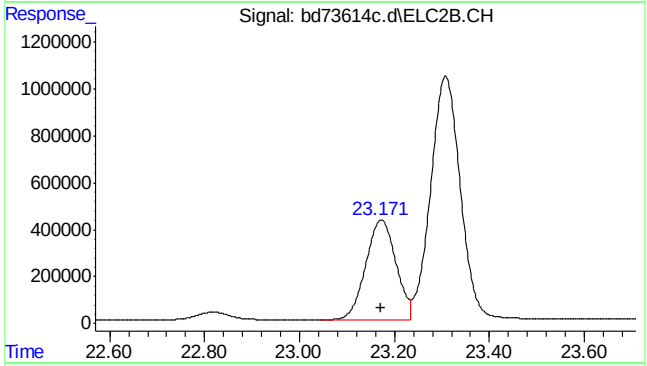
R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 21011312
Conc: 46.41 ppb

SGS ACCUTEST MC45969



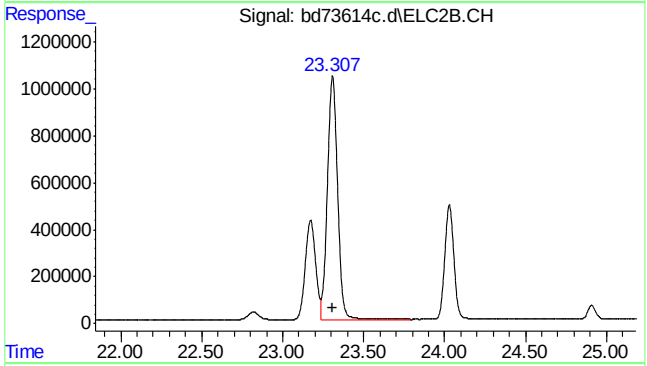
#18 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 8458264
Conc: 42.97 ppb



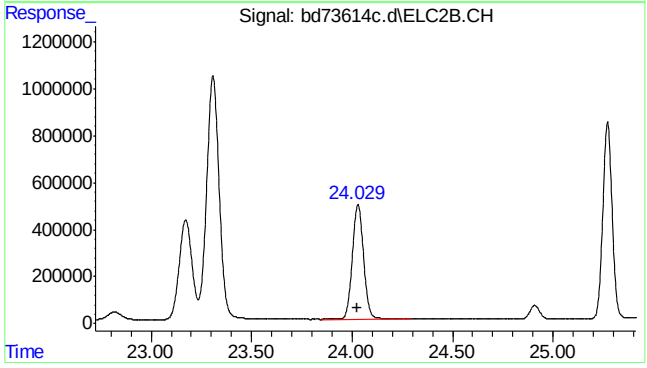
#19 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 18805698
Conc: 45.31 ppb



#20 m,p-xylene #2

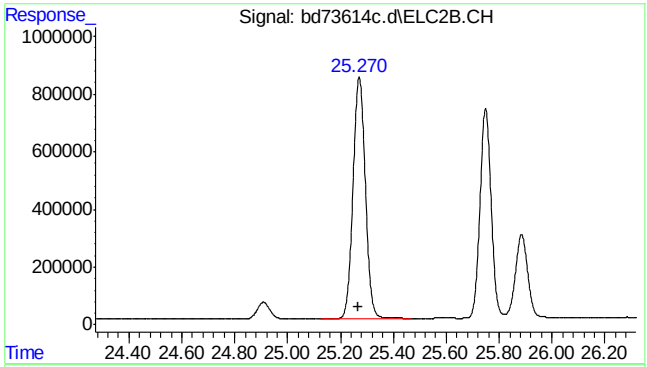
R.T.: 23.308 min
Delta R.T.: 0.000 min
Response: 45434249
Conc: 91.15 ppb



#21 o-xylene #2

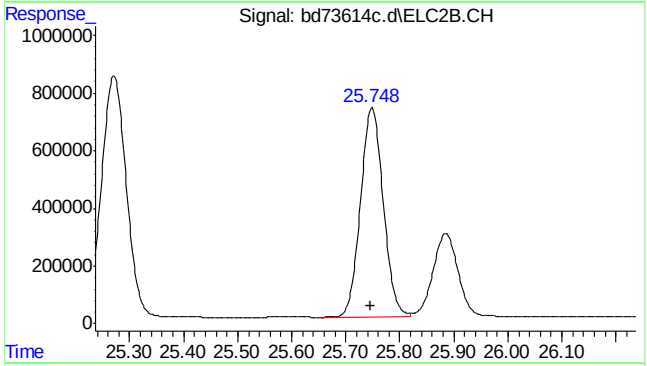
R.T.: 24.029 min
Delta R.T.: 0.001 min
Response: 19167278
Conc: 44.08 ppb

SGS ACCUTEST MC45969



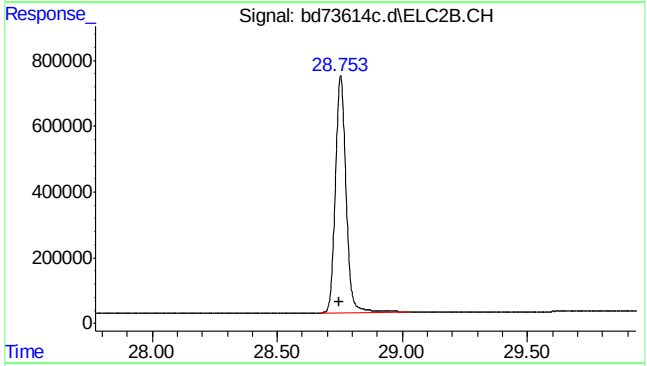
#22 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 27117859
Conc: 40.41 ppb



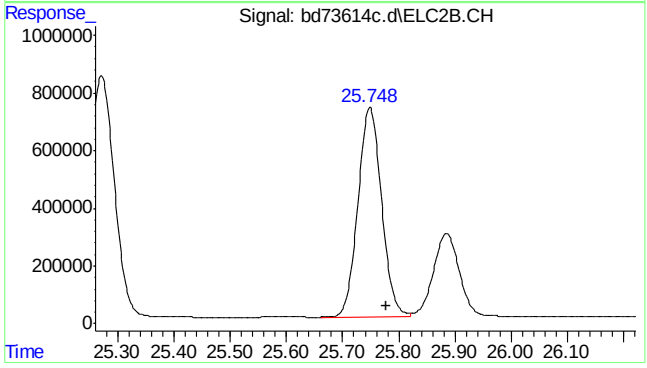
#23 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 21351151
Conc: 43.41 ppb



#24 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 21204502
Conc: 58.71 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21343374
Conc: 43.41 ppb m

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/19/16 10:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 20:32:38
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:42:04 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.426	35157690	51.672	ppb	
Spiked Amount 50.000		Recovery	= 103.34%		
6) s 2,3,4-trifluorotoluene	21.241	26865861	51.565	ppb	
Spiked Amount 50.000		Recovery	= 103.13%		
16) s fluorobenzene #2	16.426	14608008	43.059	ppb	
Spiked Amount 50.000		Recovery	= 86.12%		
18) s 2,3,4-trifluorotoluen...	21.241	8325087	42.290	ppb	
Spiked Amount 50.000		Recovery	= 84.58%		
Target Compounds					
1) h rt5.5-7	7.470	25921969	42.030	ppb	m
2) h rt7/10	9.920	31362440	50.851	ppb	m
3) h rt10/13	15.200	28994549	47.012	ppb	m
8) h rt20/25	22.840	32456109	40.559	ppb	m
10) h decane	24.930	30530566	38.153	ppb	
11) h butylcyclohexane	25.908	35389015	44.224	ppb	
14) mtbe #2	10.686	7683929	49.861	ppb	m
15) benzene #2	15.933	22462460	46.448	ppb	
17) toluene #2	20.224	21015636	46.421	ppb	
19) ethylbenzene #2	23.176	18730262	45.132	ppb	
20) m,p-xylene #2	23.311	45252298	90.787	ppb	
21) o-xylene #2	24.033	19149806	44.044	ppb	
22) t 1,3,5-trimethylbenzen...	25.275	27453141	40.912	ppb	
23) 1,2,4-trimethylbenzen...	25.752	21531864	43.775	ppb	
24) naphthalene #2	28.758	19780834	54.804	ppb	
25) h c9-c10 arom as 1,2,4-tmb	25.777	21515964	43.763	ppb	m

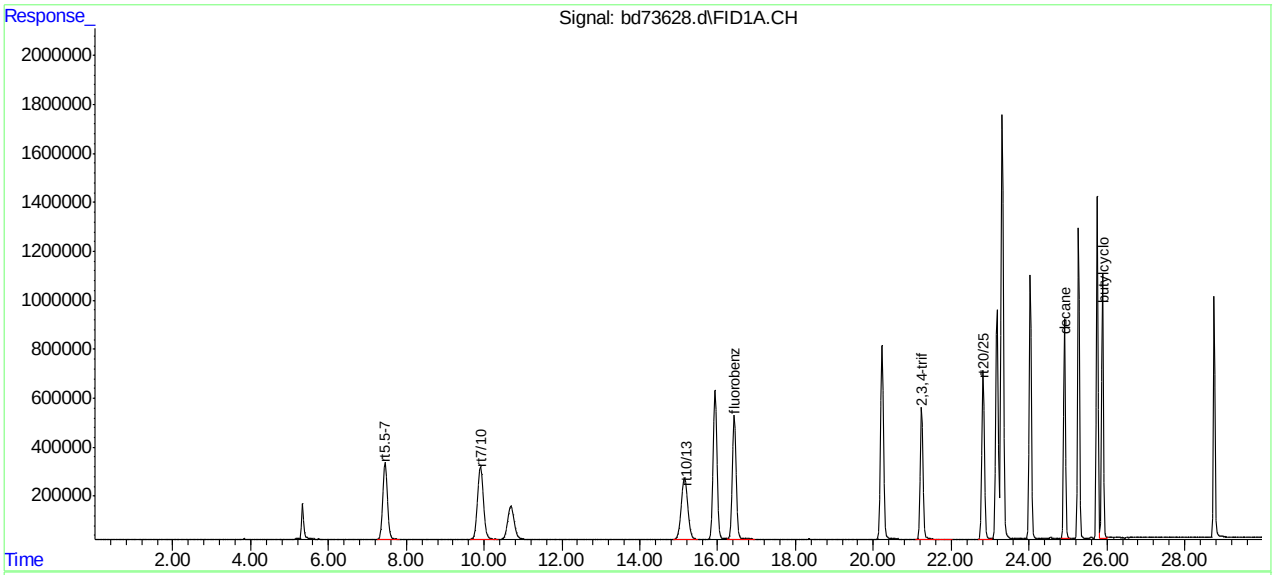
(f)=RT Delta > 1/2 Window (m)=manual int.

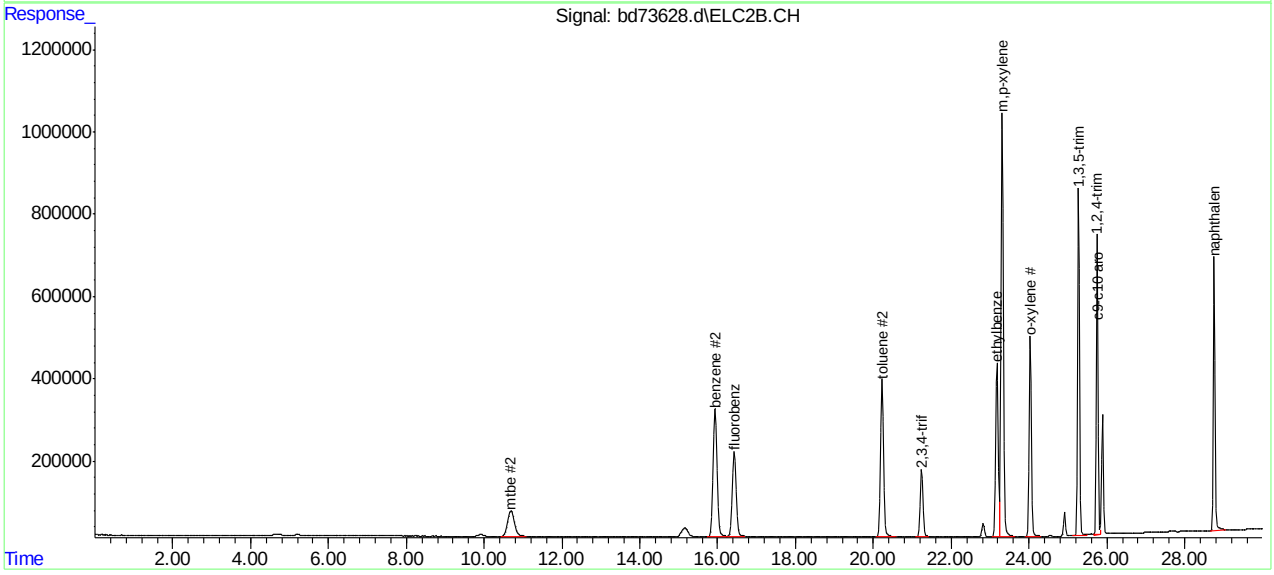
Quantitation Report (QT Reviewed)

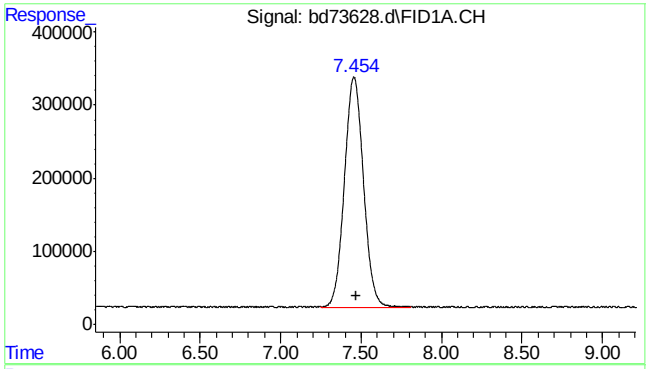
Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 20:32:38
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:42:04 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

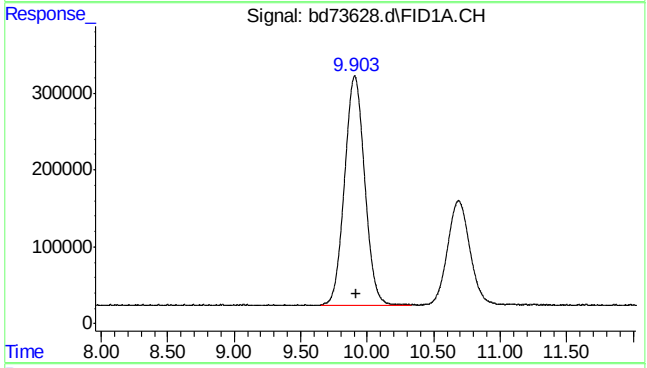






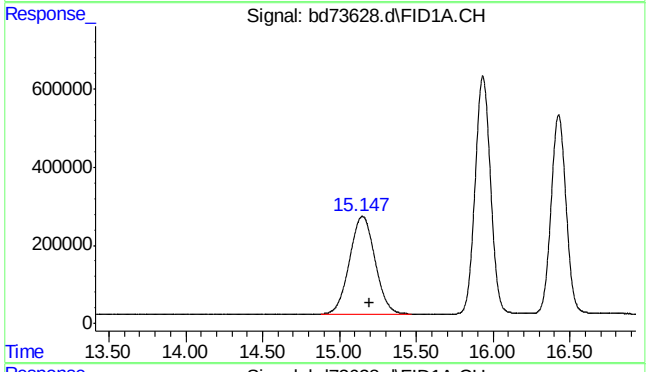
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25921969
Conc: 42.03 ppb m



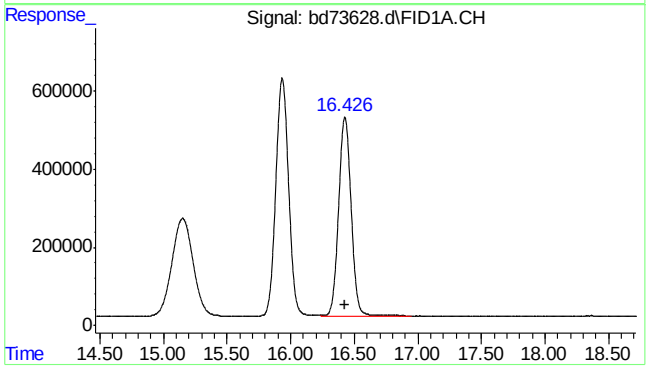
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31362440
Conc: 50.85 ppb m



#3 rt10/13

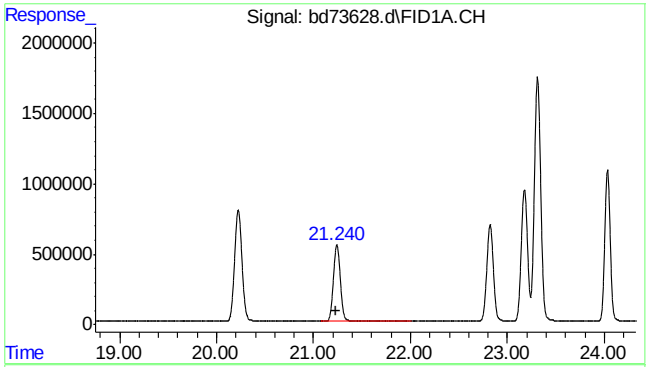
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 28994549
Conc: 47.01 ppb m



#4 fluorobenzene

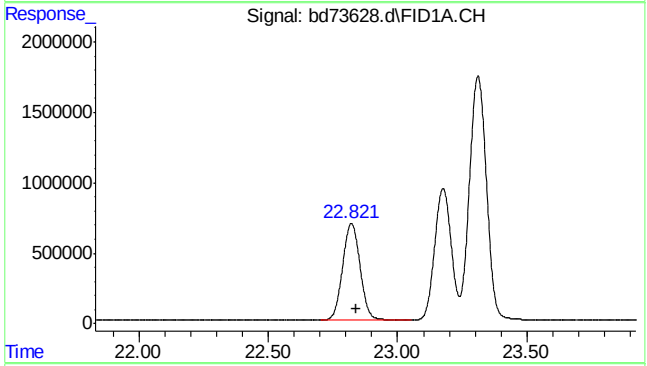
R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 35157690
Conc: 51.67 ppb

SGS ACCUTEST MC45969



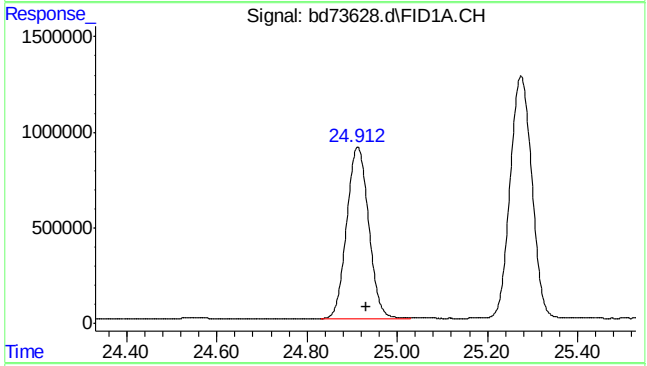
#6 2,3,4-trifluorotoluene

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 26865861
Conc: 51.57 ppb



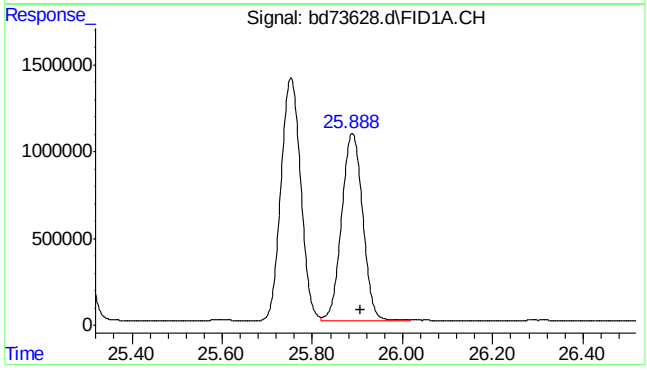
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32456109
Conc: 40.56 ppb m



#10 decane

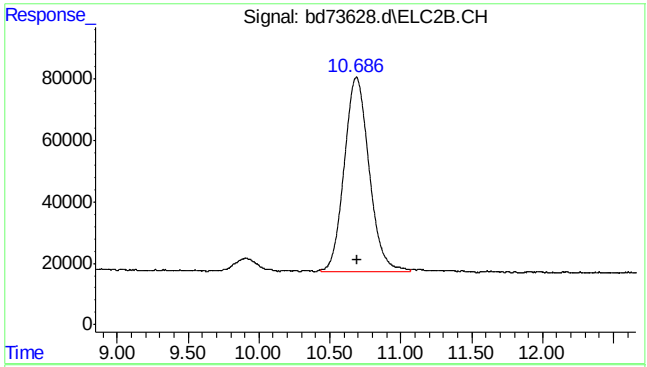
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30530566
Conc: 38.15 ppb



#11 butylcyclohexane

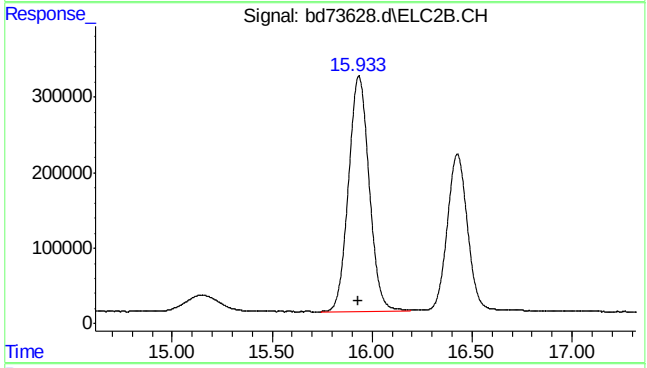
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 35389015
Conc: 44.22 ppb

SGS ACCUTEST MC45969



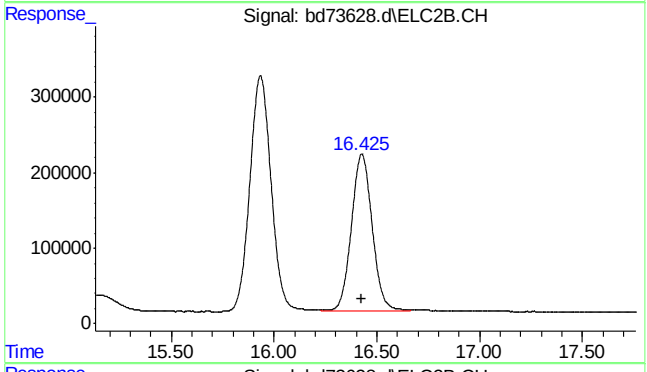
#14 mtbe #2

R.T.: 10.686 min
Delta R.T.: -0.010 min
Response: 7683929
Conc: 49.86 ppb m



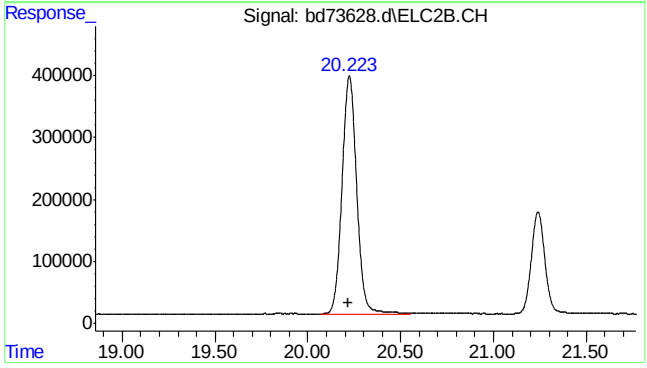
#15 benzene #2

R.T.: 15.933 min
Delta R.T.: 0.001 min
Response: 22462460
Conc: 46.45 ppb



#16 fluorobenzene #2

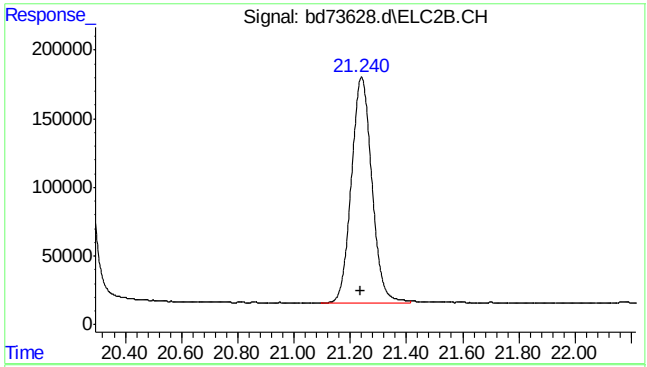
R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 14608008
Conc: 43.06 ppb



#17 toluene #2

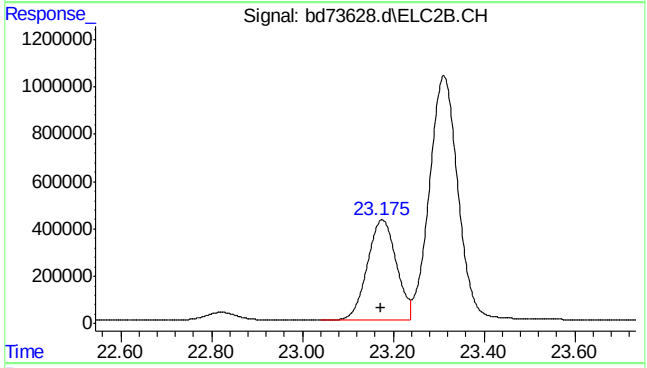
R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 21015636
Conc: 46.42 ppb

SGS ACCUTEST MC45969



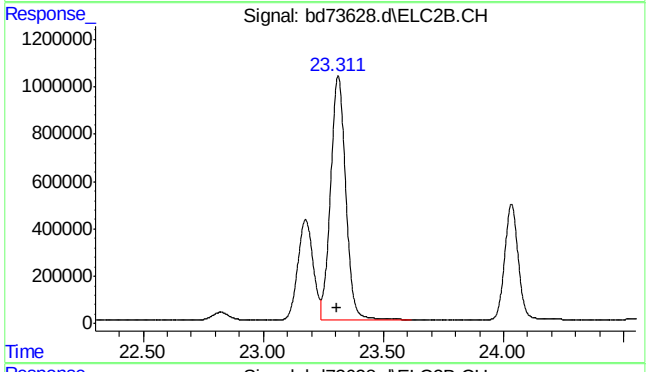
#18 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 8325087
Conc: 42.29 ppb



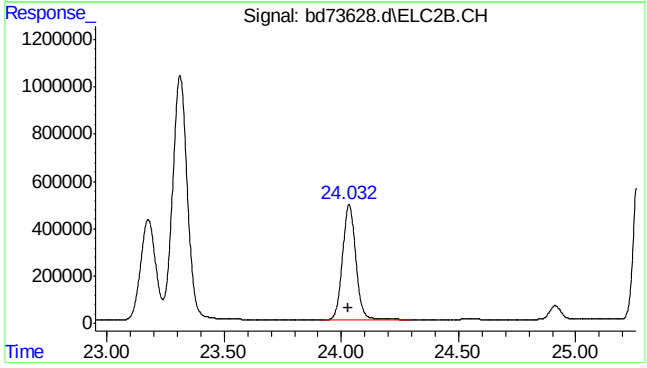
#19 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: 0.004 min
Response: 18730262
Conc: 45.13 ppb



#20 m,p-xylene #2

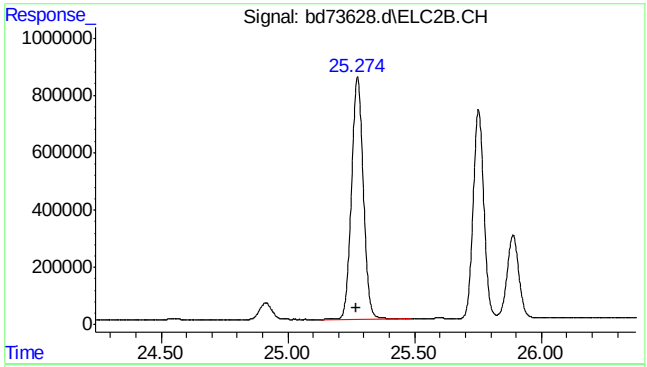
R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 45252298
Conc: 90.79 ppb



#21 o-xylene #2

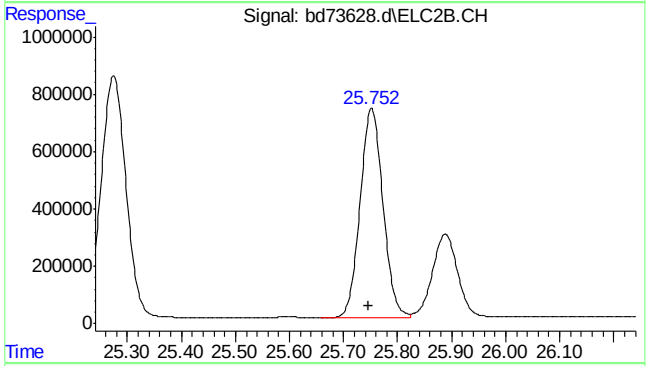
R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 19149806
Conc: 44.04 ppb

SGS ACCUTEST MC45969



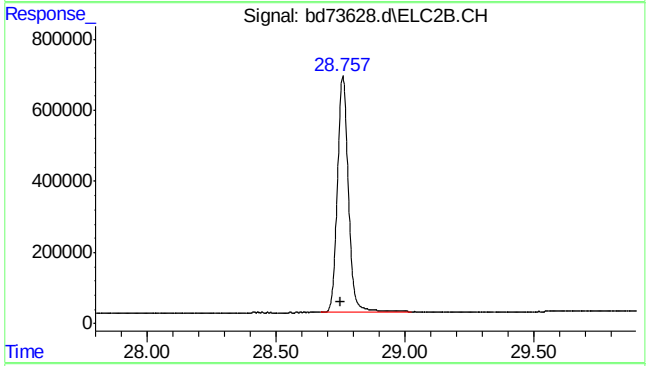
#22 1,3,5-trimethylbenzene #2

R.T.: 25.275 min
Delta R.T.: 0.007 min
Response: 27453141
Conc: 40.91 ppb



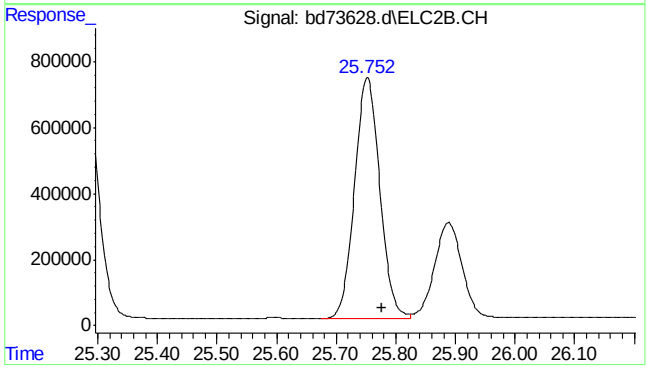
#23 1,2,4-trimethylbenzene #2

R.T.: 25.752 min
Delta R.T.: 0.006 min
Response: 21531864
Conc: 43.77 ppb



#24 naphthalene #2

R.T.: 28.758 min
Delta R.T.: 0.008 min
Response: 19780834
Conc: 54.80 ppb



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21515964
Conc: 43.76 ppb m

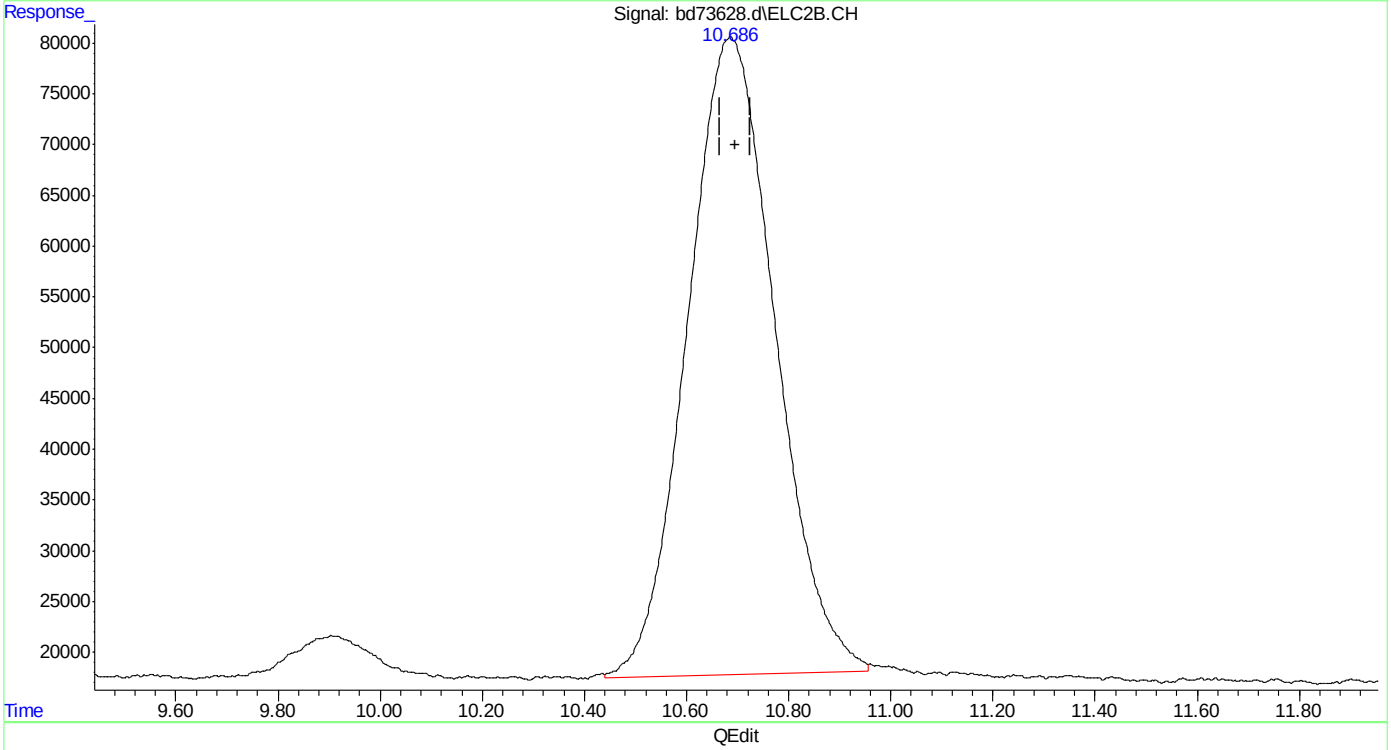
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 20:32:38
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:41:02 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(14) mtbe #2
10.686min 48.554 ppb
response 7482569

(+) = Expected Retention Time
bd160518vph.M Thu May 19 06:41:43 2016

SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 20:32:38
Operator : tonyf
Sample : cc3572-50
Misc : gc26249,gbd3638,,,,5,1
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:41:02 2016
Quant Method : C:\msdchem\1\methods\bd160518vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

(14) mtbe #2
10.686min 49.861 ppb m
response 7683929

(+) = Expected Retention Time
bd160518vph.M Thu May 19 06:41:48 2016

SGS ACCUTEST MC45969

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/20/16 10:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628d.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 20:32:38
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26255,gbd3642,,,,5,1
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:35:23 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial 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 #2	16.426	14608008	43.059 ppb
Spiked Amount 50.000		Recovery =	86.12%
6) s 2,3,4-trifluorotoluen...	21.241	8325087	42.290 ppb
Spiked Amount 50.000		Recovery =	84.58%
Target Compounds			
2) mtbe #2	10.686	7695045	49.933 ppb m
3) benzene #2	15.933	22462460	46.448 ppb
5) toluene #2	20.224	21015636	46.421 ppb
7) ethylbenzene #2	23.176	18730262	45.132 ppb
8) m,p-xylene #2	23.311	45252298	90.787 ppb
9) o-xylene #2	24.033	19149806	44.044 ppb
10) t 1,3,5-trimethylbenzen...	25.275	27453141	40.912 ppb
11) 1,2,4-trimethylbenzen...	25.752	21531864	43.775 ppb
12) naphthalene #2	28.758	19780834	54.804 ppb

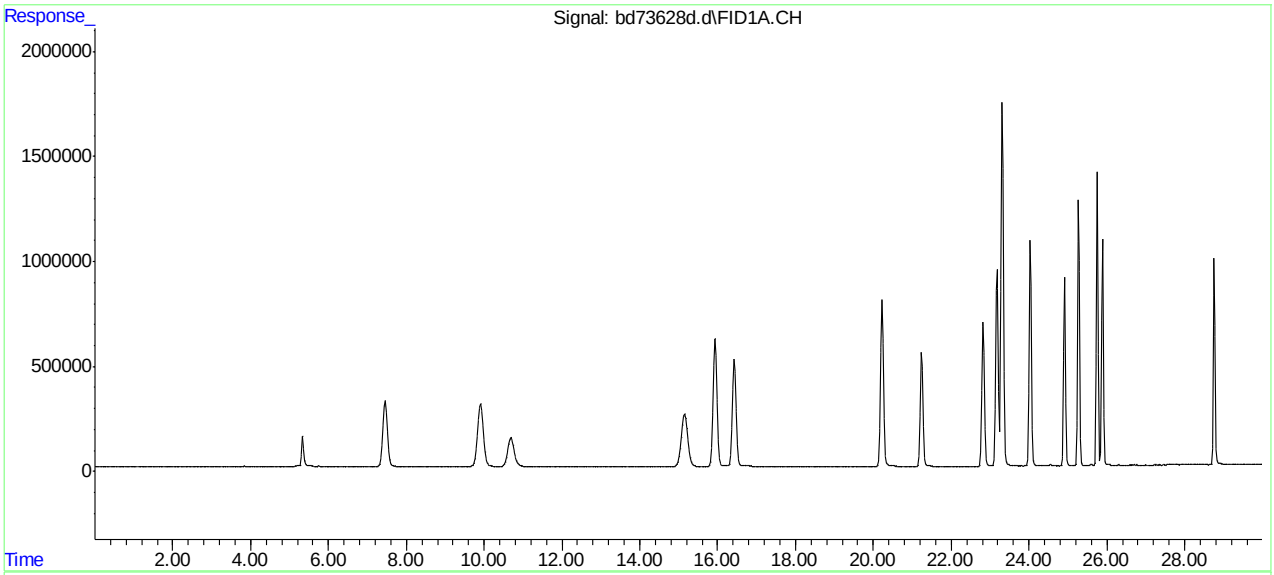
(f)=RT Delta > 1/2 Window (m)=manual int.

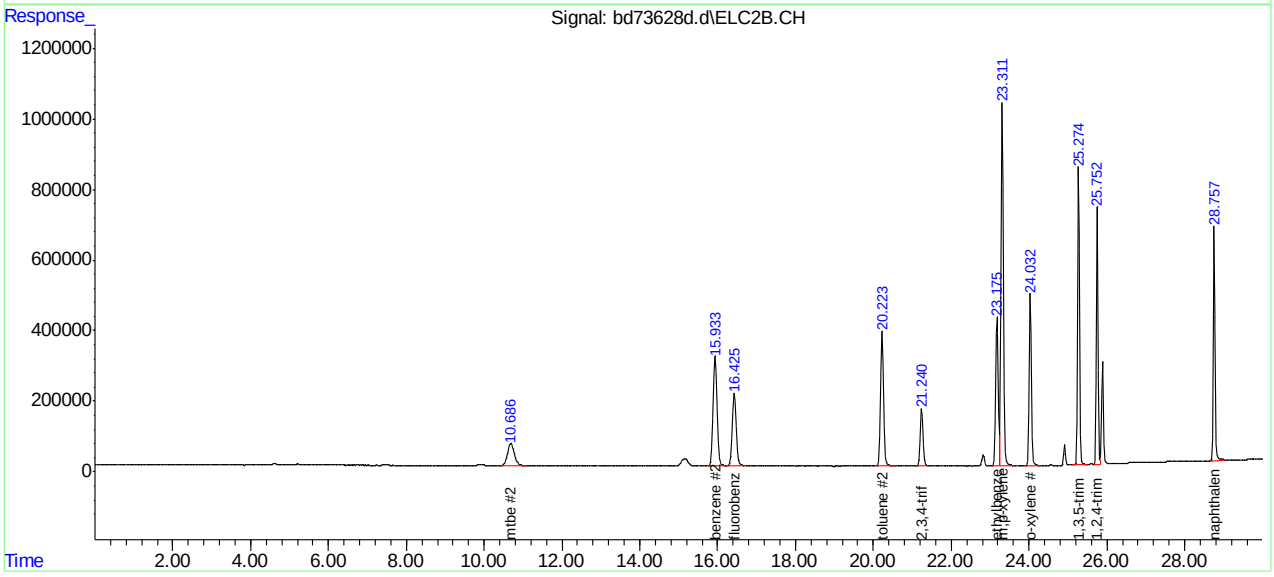
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160518\
Data File : bd73628d.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18-May-16, 20:32:38
Operator : tonyf
Sample : cc3574-50 (Sig #1); cc3572-50 (Sig #2)
Misc : gc26255,gbd3642,,,,5,1
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

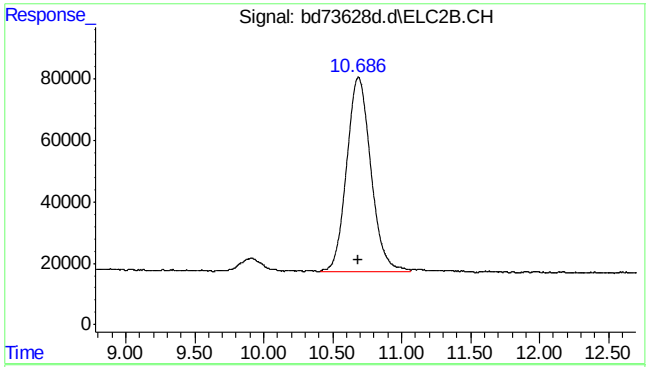
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 19 06:35:23 2016
Quant Method : C:\msdchem\1\methods\bd160518v8021btxmn.M
Quant Title : v8021btxmn nap linear regression inverse
QLast Update : Wed Mar 09 08:24:43 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



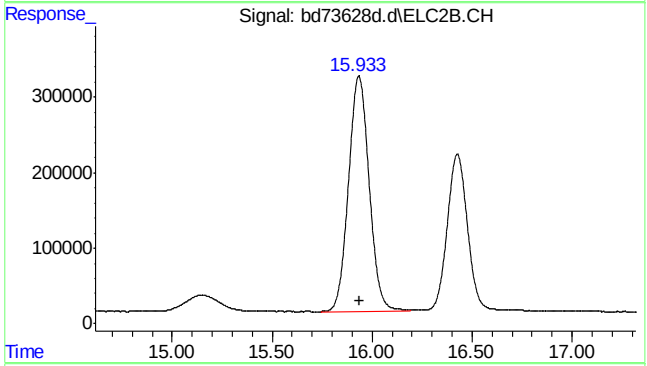


SGS ACCUTEST MC45969



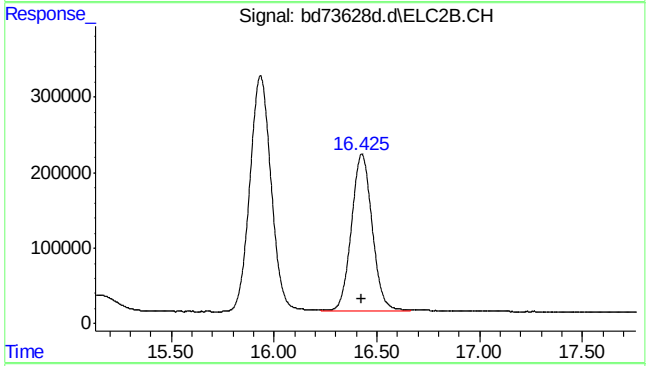
#2 mtbe #2

R.T.: 10.686 min
Delta R.T.: -0.001 min
Response: 7695045
Conc: 49.93 ppb m



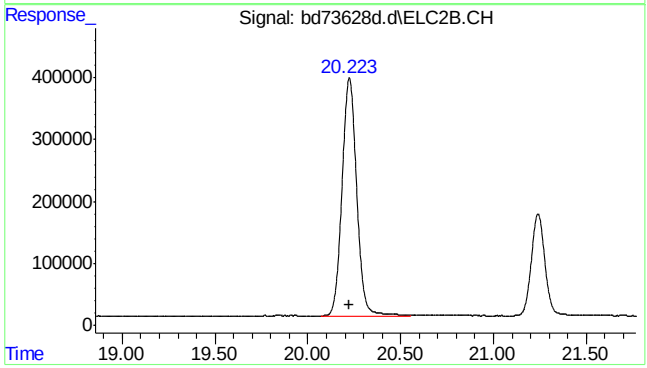
#3 benzene #2

R.T.: 15.933 min
Delta R.T.: -0.002 min
Response: 22462460
Conc: 46.45 ppb



#4 fluorobenzene #2

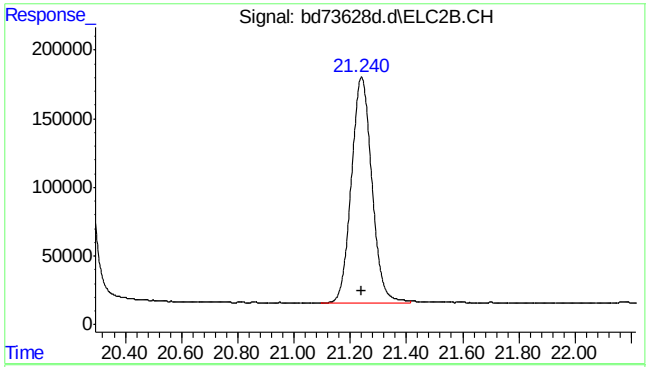
R.T.: 16.426 min
Delta R.T.: -0.002 min
Response: 14608008
Conc: 43.06 ppb



#5 toluene #2

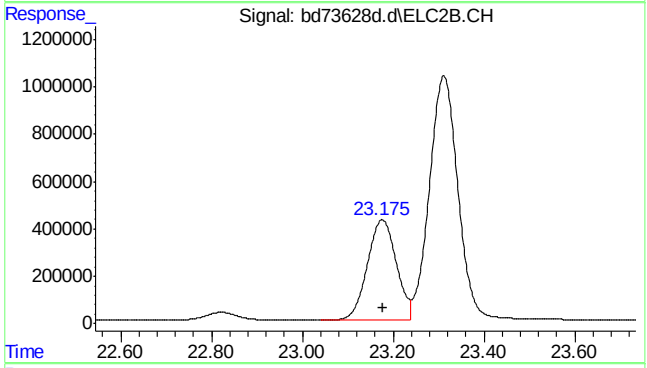
R.T.: 20.224 min
Delta R.T.: -0.002 min
Response: 21015636
Conc: 46.42 ppb

SGS ACCUTEST MC45969



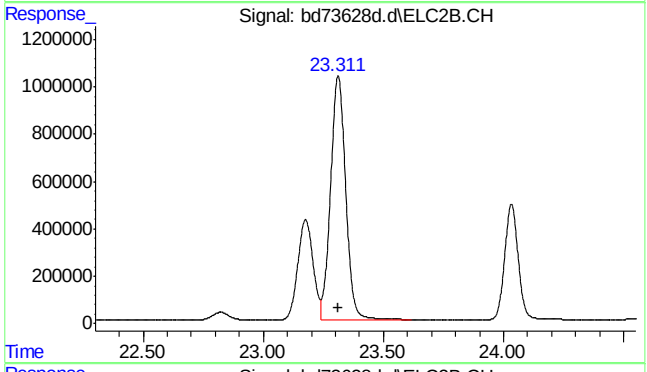
#6 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: -0.002 min
Response: 8325087
Conc: 42.29 ppb



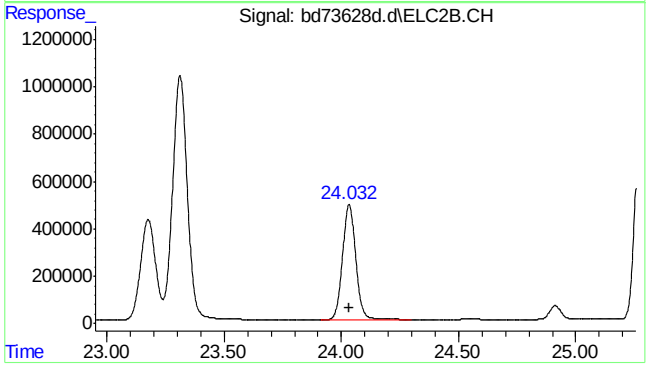
#7 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: -0.003 min
Response: 18730262
Conc: 45.13 ppb



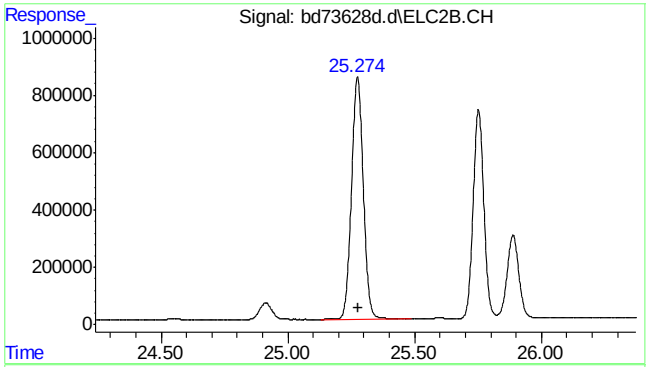
#8 m,p-xylene #2

R.T.: 23.311 min
Delta R.T.: -0.003 min
Response: 45252298
Conc: 90.79 ppb



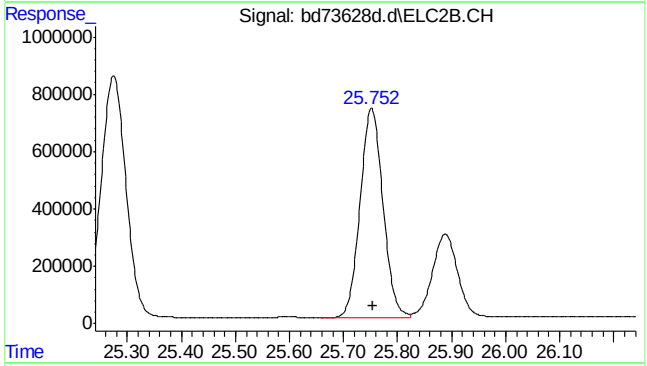
#9 o-xylene #2

R.T.: 24.033 min
Delta R.T.: -0.003 min
Response: 19149806
Conc: 44.04 ppb



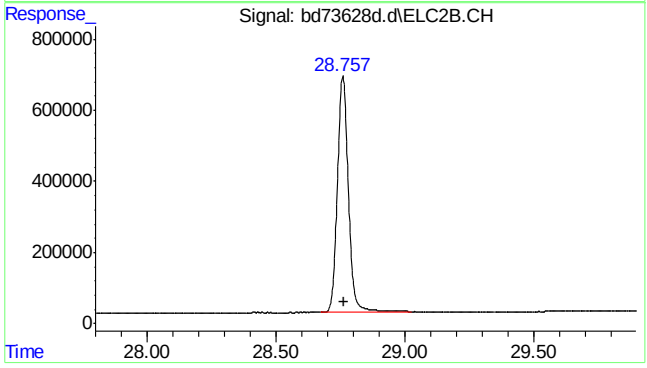
#10 1,3,5-trimethylbenzene #2

R.T.: 25.275 min
Delta R.T.: -0.002 min
Response: 27453141
Conc: 40.91 ppb



#11 1,2,4-trimethylbenzene #2

R.T.: 25.752 min
Delta R.T.: -0.002 min
Response: 21531864
Conc: 43.77 ppb



#12 naphthalene #2

R.T.: 28.758 min
Delta R.T.: -0.002 min
Response: 19780834
Conc: 54.80 ppb

SGS ACCUTEST MC45969

ACCUTEST LABORATORIES

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 2/19/16 Analyst Signature: aef

Column: mtx 502.2
Method: BD VPH1
GC Seq. File: BD 160219.5
Method Files:
BD 160219 in-stea
BD160219VPH cc 3572-50
AS Seq. File: 1-1 2-3 1-1 2-11

Standards Data

Lot #	Description	Conc
Vmaph Ale	qc 25978 gbd	~~3559~~
~~**~~		3572
Vmaph Soil	qc 25991 gbd	3573
Btxm Ale	25992 gbd	3574
qv16299	2ND Source std 50 ug/ml	3/3/16

Standards Data

Lot #	Description	Conc
qv16289	cc/bsp 250 ug/ml	3/5/16
qv16290	Sum	
qv16296	std 50/50 ug/ml	3/3/16
qv16297	5.0/5.0	
qv16298	1.0/1.0	

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: 12-12

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
bd 73,680	icv 3572-1000	N/A	qc 25978	Vmaph	1	W	100 ml qv16	296/5 ml FJ	N/A	N/A	50/50 ug/ml std
81	-500				2		50 ml				
82	-250				3		25 ml				
83	-100				4		10 ml				
84	icc 3572-50				5		5 ml				
85	ic 3572-10				6		10 ml qv16	297 / 5 ml FJ			5.0/5.0 std ug/ml
86	-5				7		5 ml				
87	-2				8		10 ml qv	16298			1.0/1.0 ug/ml std
88	-1				9		5 ml				
89	icv 3572-50				16		5 ml qv	16299		OK	2nd source 50 ug/ml std
90 *	cc 3572-50	N/A			1	W	1 ml qv	16289			curve ck
91	mb				2	W	1 ml qv	16290		N/A	Naphthalene
92	bsp	not needed 2/22/16			3		1 ml qv	16289			linear regression
93	bsl				4						inverse conc.
94	clean				2	W	5 ml				
95	A mb Ale				3	W					
96	E mb Soil		btxm	VPH	4	S					
97	E 0.25 Soil		mc17863-25		5						
98	E 0.50 Soil		mc17863-55	mc11152-55	6						
99	A 0.50 Ale		mc17863-55	mc11152-25	7	W					
73,700	A 1.0 Ale		mc17865-85	mc11152-55	8						
01	E 1.0 Soil		mc17863-85	mc11152-85	9	S	mc11151-85				
02	2.0 Ale			mc11152-85	10	W					
03	5.0 Soil			mc11151-11	11	S					
04	cc 3572-50				12	W	1 ml qv16289				
*	do not Report sample not see bsp/bsl				Not	printed	Air	in	lines	low	2/19/16

GC001-06 Date: 1/02/15 Dilution Solvent:_____ Lot Number:_____ pH Paper Lot:_____ Review:_____

MTX = Matrix: Designate W for water, S for soil - 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.

** VBO21btxm ~~Ale~~ Soil 2/22/16 qc 25993 gbd 3576 E Fils

Blank VBO15 std qc gbd 3577
Blank VBO15 std ome qc gbd 3578

7

SGS ACCUTEST MC45969

original curve 2/19/16 by

Response Factor Report GCBD

Method : C:\msdchem\1\met...bd160219master.M (ChemStation Integrator)
Title : vph - master
Last Update : Fri Feb 19 13:31:10 2016
Response via : Initial Calibration

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

Compound	1	2	4	3	5	9	6	8	7	Avg	RSD
1) rt5.5-7	5.718	5.014	6.498	5.963	6.029	5.787	5.478	5.906	5.447	5.760 E5	7.30
2) rt7/10	6.647	6.047	7.432	6.929	6.962	7.021	6.152	7.120	6.169	6.720 E5	7.34
3) mtbe	2.674	2.989	3.380	3.364	3.092	2.704	2.869	2.869	2.734	2.964 E5	9.03
4) rt10/13	3.269	4.053	6.762	5.601	6.677	7.215	7.561	7.720	6.866	6.192 E5	25.37
5) benzene	8.815	7.384	8.777	7.659	8.597	7.477	7.527	7.542	7.173	7.883 E5	8.26
6) fluorobenzene	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
7) rt13/16										0.000 -	1.00
8) toluene	8.615	7.875	8.442	7.428	8.551	7.612	7.479	7.419	7.341	7.862 E5	6.74
9) 2,3,4-trifluorotoluene	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
10) rt16/20										0.000 -	1.00
11) rt20/25	0.696	0.693	0.743	0.632	0.773	1.150	0.805	1.001	0.846	0.816 E6	20.19
12) rt25/29										0.000 -	1.00
13) ethylbenzene	8.533	8.304	8.155	7.600	8.471	7.931	7.649	7.985	7.452	8.009 E5	4.86
14) m,p-xylene	7.197	8.375	7.640	8.658	8.081	8.615	8.330	8.401	8.127	8.158 E5	

7.6.1

7

SGS ACCUTEST MC45969

5.80
15) o-xylene
8.138 8.186 8.215 8.022 8.687 9.200 8.135 8.484 7.917 8.331 E5
4.81
16) decane
0.406 0.657 0.683 0.642 0.759 1.632 0.849 1.250 0.974 0.873 E6
42.44
17) 1,3,5-trimethylbenzene
8.561 9.214 8.415 9.149 9.127 9.460 9.967 9.110 9.823 9.203 E5
5.55
18) 1,2,4-trimethylbenzene
7.932 8.932 8.133 9.100 8.864 9.382 8.741 9.059 8.519 8.740 E5
5.38
19) butylcyclohexane
0.624 0.730 0.737 0.751 0.825 1.408 0.926 1.208 0.994 0.911 E6
28.01
20) naphthalene
4.261 4.719 5.335 4.986 5.458 2.689 4.112 3.168 3.311 4.227 E5
23.51
21) 2,5-dibromotoluene
0.000 -
1.00

Signal #2

23) mtbe #2
1.368 1.460 1.667 1.610 1.593 1.466 1.570 1.600 1.536 1.541 E5
6.07
24) benzene #2
4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570 4.836 E5
3.90
25) fluorobenzene #2
3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680 3.393 E5
9.43
26) toluene #2
4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115 4.527 E5
4.86
27) 2,3,4-trifluorotoluene #2
1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188 1.969 E5
6.99
28) ethylbenzene #2
4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838 4.150 E5
5.12
29) m,p-xylene #2
5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695 4.984 E5
3.61
30) o-xylene #2
4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075 4.348 E5
5.78
31) 1,3,5-trimethylbenzene #2
6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720 6.710 E5
3.14
32) 1,2,4-trimethylbenzene #2
5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514 4.919 E5
5.66
33) naphthalene #2
3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469 3.230 E5

2/19/16

7.6.1

7

SGS ACCUTEST MC45969

```
24.83
 34)  c9-c10 arom as 1,2,4-tmb
            5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5
5.57
 35)  2,5-dibromotoluene #2
                                                                    0.000   -
1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          bd160219master.M        Fri Feb 19 13:54:22 2016
```

not deleted 1.0ppb from stds ranges only
naphthalene using linear regression, inverse concentration

2/19/16
ay

VPH curve

in use

2/19/16

Response Factor Report GCBD

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

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

Compound	1	2	4	3	5	9	6	8	7	Avg	% RSD
1) rt5.5-7											
	6.167				6.167					6.167 E5	0.00
2) rt7/10											
	6.167				6.167					6.167 E5	0.00
3) rt10/13											
	6.167				6.167					6.167 E5	0.00
4) fluorobenzene											
	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
5) rt13/16											
										0.000 -	1.00
6) 2,3,4-trifluorotoluene											
	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
7) rt16/20											
										0.000 -	1.00
8) rt20/25											
	8.002				8.002					8.002 E5	0.00
9) rt25/29											
										0.000 -	1.00
10) decane											
	8.002				8.002					8.002 E5	0.00
11) butylcyclohexane											
	8.002				8.002					8.002 E5	0.00
12) 2,5-dibromotoluene											
										0.000 -	1.00
Signal #2											
14) mtbe #2											
	1.368	1.460	1.667	1.610	1.593	1.466	1.570	1.600	1.536	1.541 E5	

7.6.1

7

```
6.07
 15)  benzene #2
            4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570   4.836 E5
3.90
 16)  fluorobenzene #2
            3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680   3.393 E5
9.43
 17)  toluene #2
            4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115   4.527 E5
4.86
 18)  2,3,4-trifluorotoluene #2
            1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188   1.969 E5
6.99
 19)  ethylbenzene #2
            4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838   4.150 E5
5.12
 20)  m,p-xylene #2
            5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695   4.984 E5
3.61
 21)  o-xylene #2
            4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075   4.348 E5
5.78
 22)  1,3,5-trimethylbenzene #2
            6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720   6.710 E5
3.14
 23)  1,2,4-trimethylbenzene #2
            5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514   4.919 E5
5.66
 24)  naphthalene #2
            3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469   3.230 E5
24.83
            ----- Linear regression -----  Coefficient =  0.9932
                Response Ratio = -203870.32475 + 364658.28656 *A

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

        bd160219vph.M        Fri Feb 19 13:41:18 2016
```

2/19/16
ag

7.6.1

7

SGS ACCUTEST MC45969

Operator tonyf
Date Acquired #VALUE!
Instrument Name GCBD

	bd72680.d	bd72681.d	bd72683.d	bd72682.d	bd72684.d	bd72688.d	bd72685.d	bd72687.d	bd72686.d
	1000	500	100	250	50	1	10	2	5
rt5.5-7	571776990	250696304	64982591	149066038	30143416	578714	5478380	1181221	2723524
rt7/10	664691568	302369528	74322538	173228736	34807733	702081	6151519	1423940	3084292
mtbe	267375479	149463905	33800413	84104242	15460558	270393	2869302	573857	1367206
rt10/13	326932608	202634743	67623819	140036220	33383300	721543	7560791	1543987	3432971
benzene	881456634	369202764	87774837	191470179	42982873	747683	7526601	1508329	3586407
toluene	861485080	393743577	84423859	185707723	42756685	761168	7478514	1483744	3670681
rt20/25	696465027	346681859	74314298	156091359	38654222	1149887	8045975	2002361	4228618
ethylbenzene	853280690	415193330	81550653	190000309	42355999	793136	7648937	1597064	3725793
m,p-xylene	1439377364	837537821	152799260	432876904	80812232	1723067	16659616	3360397	8126886
o-xylene	813797703	409323205	82145326	200540345	43434854	920010	8134654	1696702	3958698
decane	406144732	328410851	68348944	160400652	37965661	1632465	8499226	2500365	4869338
1,3,5-trimethylbenzene	856076033	460707488	84145233	228714832	45635368	946024	9966676	1822082	4911450
1,2,4-trimethylbenzene	793214434	446599621	81329260	227512016	44319474	938216	8741165	1811882	4259354
butylcyclohexane	623652608	364778065	73745152	187694750	41267880	1408346	9260257	2416889	4968205
naphthalene	426083724	235968786	53350849	124639753	27290467	268939	4112144	633669	1855353

MAVPH pentane, methylpentane,isooctane

Total area	1563400166	755700575	206928947	462329993	98334449	2002338	19190690	4149148	9240787
Total mass	3000	1500	300	750	150	3	30	6	15
RF	521133	503800	689763	616440	655563	667446	639690	691525	616052

	Avg RF	Area 1000	Area 50
	622379	622379185	31118959
% RSD	**10.95**		

*** = 2 x conc

Nonane, butylcyclohexane, decane

Total area	1726452266	1039870775	216408394	506186760	117887763	4190698	25795459	6919614	14066162
Total mass	3000	1500	300	750	150	3	30	6	15
RF	575484	693247	721361	674916	785918	1396899	859849	1153269	937744

	Avg RF	Area 1000	Area 50
	866521	866520858	43326043
%RSD	**30.19**		

deleted 1st from ranges 2/19/16 cy

JFH 070804 Analyst/Date:____

Edit 2-methylpentane, isooctane, mtbe,bz, tulene, ethylbenzene to 1000.
ZM April 13,2005

Instrument Run Log GBD3572 page 7 of 11
SGS ACCUTEST MC45969
579 of 895
7.6.1 7

Operator tonyf
Date Acquired #VALUE!
Instrument Name GCBD

	bd72680.d	bd72681.d	bd72683.d	bd72682.d	bd72684.d	bd72688.d	bd72685.d	bd72687.d	bd72686.d
	1000	500	100	250	50	1	10	2	5
rt5.5-7	571775990	250696304	64982591	149066038	30143416	578714	5478380	1181221	2723524
rt7-10	684691568	302369528	74322538	173228736	34807733	702081	6151519	1423940	3084292
mtbe	267375479	149463905	33800413	84104242	15460556	270393	2869302	573857	1367206
rt10/13	326932608	202634743	67623819	140035220	33383300	721543	7560791	1543987	3432971
benzene	881455634	369202764	87774837	191470179	42982873	747683	7526601	1508329	3586407
toluene	861485080	393743577	84423850	185707723	42756685	761168	7478514	1483744	3670681
rt20/25	696455027	346681859	74314298	158091359	38654222	1149887	8045975	2002361	4228618
ethylbenzene	853280690	415193330	81550653	190000309	42355999	793136	7648937	1597064	3725793
m,p-xylene	1439377364	837537821	152799260	432876904	80812232	1723067	16659616	3360397	8126886
o-xylene	813797703	409323205	82145326	200540345	43434654	920010	8134654	1696702	3958696
decane	406144732	328410851	68348944	160400652	37965661	1632465	8489226	2500365	4869338
1,3,5-trimethylbenzene	856076033	460707486	84145233	228714832	45635368	946024	9966676	1822082	4911450
1,2,4-trimethylbenzene	793214434	446599621	81329260	227512016	44319474	938216	8741165	1811882	4259354
butylcyclohexane	623852508	364778065	73745152	187694750	41267880	1408346	9260257	2416889	4968205
naphthalene	428083724	235968786	53350849	124639753	27290467	268939	4112144	633569	1655353

MAVPH pentane, methylpentane,isooctane

Total area	1563400166	755700575	206928947	462329993	98334449	19190690	4149148	9240787
Total mass	3000	1500	300	750	150	30	6	15
RF	521133	503800	689763	616440	655563	639690	691525	616052

	Avg RF	Area 1000	Area 50
	616746	616745844	30837292
% RSD	**11.44**		

*** = 2 x conc

Nonane, butylcyclohexane, decane

Total area	1726452266	1039870775	216408394	506186760	117887763	25795459	6919614	14066162
Total mass	3000	1500	300	750	150	30	6	15
RF	575484	693247	721361	674916	785918	859849	1153269	937744

	Avg RF	Area 1000	Area 50
	800224	800223563	40011178
%RSD	**22.71**		

JFH 070604 Analyst/Date:_____

Edit 2-methylpentane, isooctane, mtbe,bz, tulene, ethylbenzene to 1000.
ZM April 13,2005

2/19/16
ajs

Data File Name	bd72689.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**icv3752-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	32771312	C5 - C8 area	CF	CF		
rt7/10	37519205	106873097	712487	616746	**-15.52**	
rt10/13	36582580					
rt20/25	38978420					
decane	37220553	C9-C12 area				
butylcyclohexane	41168976	117367949	782453	800224	**2.22**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 2/19/16 aid

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	bd72690.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**mb**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	22840406	C5 - C8 area	CF	CF		
rt7/10	26439866	74923968	499493	616746	**19.01**	
rt10/13	25643696					
rt20/25	26471005					
decane	25392634	C9-C12 area				
butylcyclohexane	29032373	80896011	539307	800224	**32.61**	*

D NA
OT not pulled

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date:_____ 2/22/16 aff

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	bd72704.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	28273329	C5 - C8 area	CF	CF		
rt7/10	34200726	93802094	625347	616746	**-1.39**	
rt10/13	31328040					
rt20/25	34167846					
decane	32560735	C9-C12 area				
butylcyclohexane	37006510	103735091	691567	800224	**13.58**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 2/22/16 ay

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

SGS ACCUTEST MC45969

ACCUTEST LABORATORIES

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 2/19/16 Analyst Signature: aef

Standards Data

Lot #	Description	Conc
Vmaph Mix	qc 25978 gbd	~~3554~~ 3572
**		
Vmaph Soil	25991 gbd	3573
Btxm Mix	25992 gbd	3574
qv16299	2ND Source std 50 ug/ml	3/3/16

Standards Data

Lot #	Description	Conc
qv16289	cc/bep 350 ug/ml	3/3/16
qv16290	Sum	
qv16296	std 50/50 ug/ml	3/3/16
qv16297	5.0/5.0	
qv16298	1.0/1.0	

Column: mtx 502.2
Method: BD VPH1
GC Seq. File: BD 160219.S
Method Files:
BD 160219 in-steo
BD160219VPH cc 3572-50
AS Seq. File: 1-1 2-3 1-1 2-11

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: 12-12

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
bd 73,680	ic 3572-1000	N/A	qc 25978	Vmaph	1	W	100 ml qv16	296/5 ml	EFJ N/A	N/A	50/50 ug/ml std
81	-500				2		5 ml				
82	-250				3		2.5 ml				
83	-100				4		1 ml				
84	icc 3572-50				5		5 ml				
85	ic 3572-10				6		10 ml qv16	297 / 5 ml	EFJ		5.0/5.0 std 2nd source
86	-5				7		5 ml				
87	-2				8		10 ml qv	16298			1.0/1.0 ug/ml std
88	-1				9		5 ml				
89	icv 3572-50				10		5 ml qv	16299		OK	2nd source 50 ug/ml std
90 *	cc 3572-50	N/A			1	W	1 ml qv	16289			continue OK
91	mb				2	W	1 ml qv	16290		N/D	Naphthalene
92	bsp	not needed 2/22/16			3		1 ml qv	16289			linear regression
93	bsb				4						increase conc.
94	clean				2	W	5 ml				
95	mb AQ				3	W					
96	mb Soil		btxm	VPH	4	S					
97	0.25 Soil		mc17863-25		5						
98	0.50 Soil		mc17863-55	mc11152-55	6						
99	0.50 AQ		mc17863-55	mc11152-25	7	W					
72,700	1.0 AQ		mc17865-85	mc11152-55	8						
01	1.0 Soil		mc17863-85	mc11152-85	9	S	mc11151-85				
02	2.0 AQ			mc11152-85	10	W					
03	5.0 Soil			mc11151-11	11	S					
04	cc 3572-50				12	W	1 ml qv16289				
*	do not	Report	samples	not	purged	Air	in	lines	Lost		2/19/16
	see	bsp/bsb									

GC001-06 Date: 1/02/15 Dilution Solvent:_____ Lot Number:_____ pH Paper Lot:_____ Review:_____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil - method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water.

** VBC21btxm Soil 2/22/16 qc 25993 gbd 3576 E Fils

Btxm V8015 std qc gbd 3577
Oil V8015 std 50 ml qc gbd 3578

7

SGS ACCUTEST MC45969

Response Factor Report GCBD

Method : C:\msdchem\1\met...bd160219master.M (ChemStation Integrator)
Title : vph - master
Last Update : Mon Feb 22 11:25:11 2016
Response via : Initial Calibration

2/22/16
original curve
at 7

Calibration Files
1 =bd72680a.d 2 =bd72681a.d 4 =bd72683a.d 3 =bd72682a.d
5 =bd72684a.d 9 =bd72688a.d 6 =bd72685a.d 8 =bd72687a.d
7 =bd72686a.d =

Compound	1	2	4	3	5	9	6	8	7	Avg	% RSD
1) rt5.5-7	5.718	5.014	6.498	5.963	6.029	5.787	5.478	5.906	5.447	5.760 E5	7.30
2) rt7/10	6.647	6.047	7.432	6.929	6.962	7.021	6.152	7.120	6.169	6.720 E5	7.34
3) mtbe	2.674	2.989	3.380	3.364	3.092	2.704	2.869	2.869	2.734	2.964 E5	9.03
4) rt10/13	3.269	4.053	6.762	5.601	6.677	7.215	7.561	7.720	6.866	6.192 E5	25.37
5) benzene	8.815	7.384	8.777	7.659	8.597	7.477	7.527	7.542	7.173	7.883 E5	8.26
6) fluorobenzene	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
7) rt13/16										0.000 -	1.00
8) toluene	8.615	7.875	8.442	7.428	8.551	7.612	7.479	7.419	7.341	7.862 E5	6.74
9) 2,3,4-trifluorotoluene	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
10) rt16/20										0.000 -	1.00
11) rt20/25	0.696	0.693	0.743	0.632	0.773	1.150	0.805	1.001	0.846	0.816 E6	20.19
12) rt25/29										0.000 -	1.00
13) ethylbenzene	8.533	8.304	8.155	7.600	8.471	7.931	7.649	7.985	7.452	8.009 E5	4.86
14) m,p-xylene	7.197	8.375	7.640	8.658	8.081	8.615	8.330	8.401	8.127	8.158 E5	

7.6.2

7

5.80
15) o-xylene
8.138 8.186 8.215 8.022 8.687 9.200 8.135 8.484 7.917 8.331 E5
4.81
16) decane
0.406 0.657 0.683 0.642 0.759 1.632 0.849 1.250 0.974 0.873 E6
42.44
17) 1,3,5-trimethylbenzene
8.561 9.214 8.415 9.149 9.127 9.460 9.967 9.110 9.823 9.203 E5
5.55
18) 1,2,4-trimethylbenzene
7.932 8.932 8.133 9.100 8.864 9.382 8.741 9.059 8.519 8.740 E5
5.38
19) butylcyclohexane
0.624 0.730 0.737 0.751 0.825 1.408 0.926 1.208 0.994 0.911 E6
28.01
20) naphthalene
4.261 4.719 5.335 4.986 5.458 2.689 4.112 3.168 3.311 4.227 E5
23.51
21) 2,5-dibromotoluene
0.000
1.00

Signal #2

23) mtbe #2
1.368 1.460 1.667 1.610 1.593 1.466 1.570 1.600 1.536 1.541 E5
6.07
24) benzene #2
4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570 4.836 E5
3.90
25) fluorobenzene #2
3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680 3.393 E5
9.43
26) toluene #2
4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115 4.527 E5
4.86
27) 2,3,4-trifluorotoluene #2
1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188 1.969 E5
6.99
28) ethylbenzene #2
4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838 4.150 E5
5.12
29) m,p-xylene #2
5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695 4.984 E5
3.61
30) o-xylene #2
4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075 4.348 E5
5.78
31) 1,3,5-trimethylbenzene #2
6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720 6.710 E5
3.14
32) 1,2,4-trimethylbenzene #2
5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514 4.919 E5
5.66
33) naphthalene #2
3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469 3.230 E5

```
24.83
 34)  c9-c10 arom as 1,2,4-tmb
            5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5
5.57
 35)  2,5-dibromotoluene #2
                                                                    0.000   -
1.00
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          bd160219master.M        Mon Feb 22 11:25:44 2016
```

7.6.2

7

v8021btxmn curve

2/22/16

Response Factor Report GCBD

Method : C:\msdchem\1\met...0219v8021btxmn.M (ChemStation Integrator)
Title : v8021btxmn nap linear regrression inverse
Last Update : Mon Feb 22 11:29:19 2016
Response via : Initial Calibration

Calibration Files
1 =bd72680a.d 2 =bd72681a.d 4 =bd72683a.d 3 =bd72682a.d
5 =bd72684a.d 9 =bd72688a.d 6 =bd72685a.d 8 =bd72687a.d
7 =bd72686a.d =

Compound	1	2	4	3	5	9	6	8	7	Avg	% RSD
Signal #2											
2) mtbe #2	1.368	1.460	1.667	1.610	1.593	1.466	1.570	1.600	1.536	1.541 E5	6.07
3) benzene #2	4.861	4.876	5.056	5.081	4.822	4.969	4.569	4.719	4.570	4.836 E5	3.90
4) fluorobenzene #2	3.079	3.091	3.220	3.214	3.077	3.733	3.886	3.554	3.680	3.393 E5	9.43
5) toluene #2	4.626	4.588	4.711	4.756	4.512	4.707	4.237	4.493	4.115	4.527 E5	4.86
6) 2,3,4-trifluorotoluene #2	1.932	1.869	1.891	1.909	1.814	2.067	2.170	1.877	2.188	1.969 E5	6.99
7) ethylbenzene #2	4.459	4.298	4.247	4.336	4.065	4.136	3.841	4.132	3.838	4.150 E5	5.12
8) m,p-xylene #2	5.131	5.050	5.113	5.152	4.929	5.039	4.682	5.068	4.695	4.984 E5	3.61
9) o-xylene #2	4.551	4.406	4.313	4.400	4.169	4.837	4.014	4.366	4.075	4.348 E5	5.78
10) 1,3,5-trimethylbenzene #2	6.721	6.794	6.567	6.734	6.343	7.129	6.606	6.779	6.720	6.710 E5	3.14
11) 1,2,4-trimethylbenzene #2	5.032	5.133	4.940	5.083	4.785	5.310	4.478	4.993	4.514	4.919 E5	5.66
12) naphthalene #2	3.386	3.828	4.165	4.078	3.817	2.045	2.922	2.364	2.469	3.230 E5	24.83
----- Linear regression ----- Coefficient = 0.9932											
Response Ratio = -203870.32451 + 364658.28656 *A											
13) c9-c10 arom as 1,2,4-tmb										0.000	-

7.6.2

7

```
1.00
 14)  2,5-dibromotoluene #2
                                                                    0.000
1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          bd160219v8021btxmn.M        Mon Feb 22 14:35:42 2016
```

7.6.2

7

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/18/16 Analyst Signature: [illegible]

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
Vmaxph AQ	gc 26249 gbd	3638 A
Vmaxph AQ	gc 26252 gbd	3639 A
V8021btxm AQ	gc 26254 gbd	3640 B
Vmaxph Soil	gc 26253 gbd	3641 C
V8021btxm Soil	gc 26255 gbd	3642 D

Standards Data

Lot #	Description	Expiration
qu16379	cc/bsp 250ug/ml	6/4/16
qu16380	sum ↓	6/6/16
qu16364A	500 ug/ml std	5/19/16
qu16366A	50 ↓	↓

Method: BD VPH1

GC Seq. File: BD160518.S

Method Files:

BD160518 VPH cc3572-50

BD160519 V8021btxmN cc3574-50

AS Seq. File: 1-4, 2-2, 3-4, 5-5, 5-7

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: S-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD 73,609	Concel 50	n/a	gc 26249	Vmaxph	1	W	1ml qu16379	N/A	N/A	
08	mb	↓	↓	↓	2	↓	1ml qu16380	↓	↓	
09	bsp				3		1ml qu16379			
10	bsd				4		↓			
11	mc45945-1	3			5		5ml		L2	
12	-1ms	3			5		↓		↓	
13	-1msD	4			6					
14	Concel 50	N/A			7		1ml qu16379		N/A	
15	mb		gc 26252 gc 26264	VDIT one V8021btxm	8	W	5ml			
16	mb		10g 10ml		9	S	gc 26253 VPHSoil gc 26255 V8021 Soil			
17	mc17863-2K	S	0.25 ppb	10g/10ml V8021btxm	10	S	5ml of 1ml/5ml/5ml			mtx peak below 3x noise
18		AQ	0.25 ppb		11	W	5ml			mtx peak below 3x noise
19	mc17863-5K	S	0.5 ppb	10g/10ml V8021btxm	12	S	5ml of 1ml/5ml/5ml			
20	mc17865-5K	AQ	0.5 ppb	V8021btxm	13	W	AB file mc11152-2K		VPH AQ	
21	mc17865-8K	AQ	1.0 ppb	V8021btxm	14	W	AB file mc11152-3K		VPH AQ	
22	mc17863-8K	S	1.0 ppb	10g/10ml V8021btxm	15	S	AB file mc11151-8K		VPH Soil	
23	mc11152-8K	AQ	2.0 ppb	VPH	16	W	5ml			
24	mc11151-11K	S	5.0 ppb	VPH	17	S	5ml of 1ml/5ml/5ml			
25	mc45969-1	1	gc 26249	VMAXPH	18	W	5ml	N/A	L2	Sequence appended 5/18/16
26	-2	1			19					
27	-3	1			20					
28	Concel 50	N/A			21		1ml qu16379		N/A	ok
										ok

5/18/16

GC001-07 Date: 4/27/16 Dilution Solvent: Lot Number: pH Paper Lot: 216315

Review:

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

Data File Name	bd73607.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	26772279	C5 - C8 area	CF	CF		
rt7/10	33216533	88639434	590930	616746	**4.19**	
rt10/13	28650621					
rt20/25	33459788					
decane	31066574	C9-C12 area				
butylcyclohexane	36755407	101281769	675212	800224	**15.62**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/18/16 ay

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drjft jfh 10/04/05

Data File Name	bd73614.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	24254782	C5 - C8 area	CF	CF		
rt7/10	29919709	80500089	536667	616746	**12.98**	
rt10/13	26325598					
rt20/25	32049309					
decane	30225099	C9-C12 area				
butylcyclohexane	34513154	96787562	645250	800224	**19.37**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/18/16 ay

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/18/16 Analyst Signature: [illegible]

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
Vmoupph AQ	qc 26349 gbd	3638 A
Vmoupph AQ	qc 26252 gbd	3639 A
V8021btxmAQ	qc 26254 gbd	3640 B
Vmoupph Soil	qc 26253 gbd	3641 C
V8021btxmSoil	qc 26255 gbd	3642 D

Standards Data

Lot #	Description	Expiration
qu16379	cc/bsp/bsd/mb	6/4/16
qu16386	Sum ↓	6/6/16
qu16364A	8260 w/mtbe std	5/19/16
qu16366A	50 ↓	↓

Method: BD VPH1

GC Seq. File: BD160518.S

Method Files:

BD160518 VPH cc35572-50

BD160518 V8021btxmW cc35574-50

AS Seq. File: 1-4, 2-2, 3-4, 5-5, 5-7

Date of ICAL: 2-19-16 ICAL Verified: _____ Seq. Verification: 8-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD 73,609	Concel 50	n/a	qc26349	Vmoupph	1	W	1ml qu16379	N/A	N/A	
08	mb	↓	↓		2	↓	1ml qu16380	↓	↓	
09	bsp			↓	3		1ml qu16379			
10	bsd	↓			4		↓			
11	mc45945-1	3			5		5ml		LZ	
12	↓ -1ms	3			5		↓		↓	
13	↓ -1msD	4			6					
14	ppbxp Concel 50	N/A	↓	↓	7	↓	1ml qu16379	↓	N/A	
15	A mb		qc26252 qc26254	VOH 1ml V8021btxm	8	W	5ml			
16	A mb		10g 10ml		9	S	qc26253 VPHSoil qc26255 V8021 Soil			
17	mc17863-2K	S	0.25 ppb	10g/10ml V8021btxm	10	S	5ml of 1ml/5ml of			mtbe peak less than 3x noise
18		AQ	0.25 ppb		11	W	5ml			mtbe peak less than 3x noise
19	mc17863-5K	S	0.5 ppb	10g/10ml V8021btxm	12	S	5ml of 1ml/5ml of			
20	A mc17865-5K	AQ	0.5 ppb	V8021btxm	13	W	AB file mc11152-2K		VPH AQ	
21	A mc17865-8K	AQ	1.0 ppb	V8021btxm	14	W	AB file mc11152-3K		VPH AQ	
22	C mc17863-8K	S	1.0 ppb	10g/10ml V8021btxm	15	S	AB file mc11151-8K		VPH SOIL	
23	mc11152-8K	AQ	2.0 ppb	VPH	16	W	5ml			
24	mc11151-11K	S	5.0 ppb	VPH	17	S	5ml of 1ml/5ml of			
25	mc45969-1	1	qc26349	VMOUPH	18	W	5ml	N/A	LZ	Acquired appended 5/19/16
26	-2	1			19					
27	-3	1			20					
28	ppbxp Concel 50	N/A	↓	↓	21		1ml qu16379	↓	N/A	OK
										OK

5/18/16

GC001-07 Date: 4/27/16 Dilution Solvent: _____ Lot Number: _____ pH Paper Lot: 216315

Review: _____

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

SGS ACCUTEST MC45969

A file

Data File Name	bd73614.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	24254782	C5 - C8 area	CF	CF		
rt7/10	29919709	80500089	536667	616746	**12.98**	
rt10/13	26325598					
rt20/25	32049309					
decane	30225099	C9-C12 area				
butylcyclohexane	34513154	96787562	645250	800224	**19.37**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/18/16 aj

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	bd73628.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

1 bk

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	25921969	C5 - C8 area	CF	CF		
rt7/10	31362440	86278958	575193	616746	**6.74**	
rt10/13	28994549					
rt20/25	32456109					
decane	30530566	C9-C12 area				
butylcyclohexane	35389015	98375690	655838	800224	**18.04**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/19/16 g

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/18/16 Analyst Signature: [illegible]

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
VMAUPH AQ	qc 26349 gbd	3638
VMAUPH AQ	qc 26252 gbd	3639
V8021btxmAQ	qc 26254 gbd	3640
VMAUPH Soil	qc 26253 gbd	3641
V8021btxmSoil	qc 26255 gbd	3642

Standards Data

Lot #	Description	Expiration
qu16379	cc/bsp/bsd/mb	6/4/16
qu16380	Sum	6/6/16
qu16364A	5ic wj/mb std	5/19/16
qu16366A	50	

Method: BD VPH1

GC Seq. File: BD160518.S

Method Files:

BD160518 VPH cc3572-50

BD160518 V8021btxmN cc3574-50

AS Seq. File: 1-4, 2-2, 3-4, 5-5, 5-7

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: 5-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD 73,609	Concel 50	N/A	qc26349	VMAUPH	1	W	1ml qu16379	N/A	N/A	
08	mb				2		1ml qu16380			
09	bsp				3		1ml qu16379			
10	bsd				4					
11	mc45945-1	3			5		5ml		LZ	
12	-1ms	3			5					
13	-1msD	4			6					
14	Concel 50	N/A			7		1ml qu16379		N/A	
15	mb		qc26252 qc26254	VDH and V8021btxm	8	W	5ml			
16	mb		10g 10ml		9	S	qc26253 VDH Soil qc26255 V8021 Soil			
17	mc17863-2K	S	0.25 ppb	10g/10ml V8021btxm	10	S	5ml/1ml/5ml/Fu			mtb peak less than 3x noise
18		AQ	0.25 ppb		11	W	5ml			mtb peak less than 3x noise
19	mc17863-5K	S	0.5 ppb	10g/10ml V8021btxm	12	S	5ml/1ml/5ml/Fu			
20	mc17865-5K	AQ	0.5 ppb	V8021btxm	13	W	AB file mc11152-2K		VPH AQ	
21	mc17865-8K	AQ	1.0 ppb	V8021btxm	14	W	AB file mc11152-3K		VPH AQ	
22	mc17863-8K	S	1.0 ppb	10g/10ml V8021btxm	15	S	AB file mc11151-8K		VPH Soil	
23	mc11152-8K	AQ	2.0 ppb	VPH	16	W	5ml			
24	mc11151-11K	S	5.0 ppb	VPH	17	S	5ml/1ml/5ml/Fu			
25	mc45969-1	1	qc26349	VMAUPH	18	W	5ml	N/A	LZ	Sequence appended 5/18/16
26	-2	1			19					
27	-3	1			20					
28	Concel 50	N/A			21		1ml qu16379		N/A	OK
										OK

5/18/16

GC001-07 Date: 4/27/16 Dilution Solvent: Lot Number: pH Paper Lot: 216315

Review:

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

SGS ACCUTEST MC45969

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/18/16 Analyst Signature: [illegible]

Column: mtx 502-2

Standards Data

Test	Workgroup	Batch
Vmaoph AQ	qc 262349 gbd	3638
VmaoPH AQ	qc 262352 gbd	3639 A
V8021btxm AQ	qc 262354 gbd	3640 B
Vmaoph Soil	qc 262353 gbd	3641 C
V8021btxm Soil	qc 262355 gbd	3642 D

Standards Data

Lot #	Description	Expiration
qu16379	cc/bsp 2 50ug/ml	6/4/16
qu16386	Sum ↓	6/6/16
qu16364A	SIC w/ mtbste	5/19/16
qu16366A	50 ↓	↓

Method: BD VPH1

GC Seq. File: BD160518.S

Method Files:

BD160518 VPH cc3572-50

BD160518 V8021btxmN cc3574-50

AS Seq. File: 1-4, 2-2, 3-4, 5-5, 5-7

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: 8-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD 73,607	Lowcal 50	N/A	qc 262349	Vmaoph	1	W	1ml qu16379	N/A	N/A	
08	mb				2		1ml qu16380			
09	bsp				3		1ml qu16379			
10	bsd				4					
11	mc45943-1	3			5		5ml		L2	
12	-1ms	3			5					
13	-1msD	4			6					
14	ADBXCD Lowcal 50	N/A			7		1ml qu16379		N/A	
15	A B mb		qc 262352 qc 262364	VDI4 DAE V8021btxm	8	W	5ml			
16	A B mb		10g 10ml		9	S	qc 262353 VDH Soil qc 262355 V8021 Soil			
17	mc17863-2K	S	0.25 ppb	10g/10ml V8021btxm	10	S	5ml of 1ml/5ml/tu			mtbe peak less than 3x noise
18		AQ	0.25 ppb		11	W	5ml			mtbe peak less than 3x noise
19	mc17863-5K	S	0.5 ppb	10g/10ml V8021btxm	12	S	5ml of 1ml/5ml/tu			
20	A mc17865-5K	AQ	0.5 ppb	V8021btxm	13	W	AB file mc11152-2K		VPH AQ	
21	A mc17865-8K	AQ	1.0 ppb	V8021btxm	14	W	AB file mc11152-3K		VPH AQ	
22	C mc17863-8K	S	1.0 ppb	10g/10ml V8021btxm	15	S	AB file mc11151-8K		VPH SOIL	
23	mc11152-8K	AQ	2.0 ppb	VPH	16	W	5ml			
24	mc11151-11K	S	5.0 ppb	VPH	17	S	5ml of 1ml/5ml/tu			
25	mc45969-1	1	qc 262349	VMAOPH	18	W	5ml	N/A	L2	chrom appended 5/18/16
26	-2	1			19					
27	-3	1			20					
28	ADCD Lowcal 50	N/A			21		1ml qu16379		N/A	OK
										OK

5/18/16

GC001-07 Date: 4/27/16 Dilution Solvent: Lot Number: pH Paper Lot: 216315

Review:

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

SGS ACCUTEST MC45969

B file

Data File Name	bd73614.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	24254782	C5 - C8 area	CF	CF		
rt7/10	29919709	80500089	536667	616746	**12.98**	
rt10/13	26325598					
rt20/25	32049309					
decane	30225099	C9-C12 area				
butylcyclohexane	34513154	96787562	645250	800224	**19.37**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/18/16 ay

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

 B. file

Data File Name	bd73628.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	25921969	C5 - C8 area	CF	CF		
rt7/10	31362440	86278958	575193	616746	**6.74**	
rt10/13	28994549					
rt20/25	32456109					
decane	30530566	C9-C12 area				
butylcyclohexane	35389015	98375690	655838	800224	**18.04**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/19/16 g

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.6.6

7

SGS ACCUTEST MC45969

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/18/16 Analyst Signature: [signature]

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
Vmaph AQ	qc 26249 gbl	3638
Vmaph AQ	qc 26252 gbl	3639
V8021btxm AQ	qc 26254 gbl	3640
Vmaph Soil	qc 26253 gbl	3641
V8021btxm Soil	qc 26255 gbl	3642

Date of ICAL: 2-19-16 ICAL Verified: _____

Standards Data

Lot #	Description	Expiration
qu16379	cc/bsp 250ug/ml	6/4/16
qu16380	sum	6/6/16
qu16364A	500 ug/mL std	5/19/16
qu16366A	50	

Method: BD VPH1

GC Seq. File: BD160518.S

Method Files:

BD160518 VPH cc3572-50

BD160518 V8021btxmN cc3574-50

AS Seq. File: 1-4, 2-2, 3-4, 5-5, 6-7

Seq. Verification: 5-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD 73,609	Control 50	n/a	qc26249	Vmaph	1	W	1ml qu16379	N/A	N/A	
08	mb				2		1ml qu16380			
09	bsp				3		1ml qu16379			
10	bsd				4					
11	mc45945-1	3			5		5ml		L2	
12	-1ms	3			5					
13	-1msD	4			6					
14	Control 50	N/A			7		1ml qu16379		N/A	
15	mb		qc 26252 qc 26264	VOH AQ V8021btxm	8	W	5ml			
16	mb		10s 10ml		9	S	qc 26253 VPH Soil qc 26255 V8021 Soil			
17	mc17863-2K	S	0.25 ppb	10s/10ml V8021btxm	10	S	5ml of 1ml/5ml of			mtb peak less than 3x noise
18		AQ	0.25 ppb		11	W	5ml			mtb peak less than 3x noise
19	mc17863-5K	S	0.5 ppb	10s/10ml V8021btxm	12	S	5ml of 1ml/5ml of			
20	mc17865-5K	AQ	0.5 ppb	V8021btxm	13	W	A file mc11152-2K		VPH AQ	
21	mc17865-8K	AQ	1.0 ppb	V8021btxm	14	W	A file mc11152-5K		VPH AQ	
22	mc17863-8K	S	1.0 ppb	10s/10ml V8021btxm	15	S	A file mc11151-8K		VPH Soil	
23	mc11152-8K	AQ	2.0 ppb	VPH	16	W	5ml			
24	mc11151-11K	S	5.0 ppb	VPH	17	S	5ml of 1ml/5ml of			
25	mc45969-1	1	qc26249	Vmaph	18	W	5ml	N/A	L2	Acquire appended 5/18/16
26	-2	1			19					
27	-3	1			20					ok
28	Control 50	N/A			21		1ml qu16379		N/A	ok

5/18/16

GC001-07 Date: 4/27/16 Dilution Solvent: _____ Lot Number: _____ pH Paper Lot: 216315

Review: _____

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

11

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: MC45969
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
OP47537-MB	DE14198.D	1	05/21/16	TA	05/18/16	OP47537	GDE794

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

MC45969-1A, MC45969-2A, MC45969-3A

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	100%	40-140%
321-60-8	2-Fluorobiphenyl	75%	40-140%
3386-33-2	1-Chlorooctadecane	68%	40-140%
580-13-2	2-Bromonaphthalene	81%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45969
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
OP47537-BS	DE14196.D	1	05/21/16	TA	05/18/16	OP47537	GDE794
OP47537-BSD	DE14197.D	1	05/21/16	TA	05/18/16	OP47537	GDE794

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

MC45969-1A, MC45969-2A, MC45969-3A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	753	94	786	98	4	40-140/25
	C9-C18 Aliphatics	300	230	77	221	74	4	40-140/25
	C19-C36 Aliphatics	400	400	100	373	93	7	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	88%	87%	40-140%
321-60-8	2-Fluorobiphenyl	76%	71%	40-140%
3386-33-2	1-Chlorooctadecane	76%	77%	40-140%
580-13-2	2-Bromonaphthalene	71%	70%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47537-BS	2-Methylnaphthalene	31.7	0.11	0.3%	5.0
OP47537-BS	Naphthalene	31.2	0.13	0.4%	5.0
OP47537-BSD	2-Methylnaphthalene	27.5	0.11	0.4%	5.0
OP47537-BSD	Naphthalene	26.2	0.14	0.5%	5.0

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45969
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]
MC45969-1A	DE14199.D	94	86	66	77
MC45969-2A	DE14200.D	84	71	65	63
MC45969-3A	DE14201.D	86	68	69	72
OP47537-BS	DE14196.D	88	76	76	71
OP47537-BSD	DE14197.D	87	71	77	70
OP47537-MB	DE14198.D	100	75	68	81

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 1-Chlorooctadecane	40-140%
S4 = 2-Bromonaphthalene	40-140%

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

GC Surrogate Retention Time Summary

Job Number: MC45969
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE794-CC735	**Injection Date:**	05/21/16
Lab File ID:	DE14195.D	**Injection Time:**	09:19
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.87	6.60	11.23	7.33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47537-BS	DE14196.D	05/21/16	09:46	9.87	6.61	11.22	7.33
OP47537-BSD	DE14197.D	05/21/16	10:14	9.87	6.61	11.22	7.33
OP47537-MB	DE14198.D	05/21/16	10:42	9.87	6.60	11.22	7.33
MC45969-1A	DE14199.D	05/21/16	11:10	9.87	6.61	11.22	7.33
MC45969-2A	DE14200.D	05/21/16	11:38	9.87	6.61	11.22	7.33
MC45969-3A	DE14201.D	05/21/16	12:06	9.87	6.61	11.22	7.33
ZZZZZZ	DE14202.D	05/21/16	12:34	9.87	6.61	11.22	7.33
ZZZZZZ	DE14203.D	05/21/16	13:02	9.87	6.61	11.22	7.33
ZZZZZZ	DE14204.D	05/21/16	13:30	9.87	6.61	11.22	7.33
ZZZZZZ	DE14205.D	05/21/16	13:58	9.87	6.61	11.22	7.33

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 1-Chlorooctadecane
S4 = 2-Bromonaphthalene

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

Initial Calibration Summary

Job Number: MC45969
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: MC45969
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: MC45969
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: MC45969 **Sample:** GDE735-ICV735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE13198.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	69.894	E3	5.4	0#	0.00
33		c-19	66.806	68.487	E3	-2.5	0#	0.00
34		c-20	66.806	67.817	E3	-1.5	0#	0.00
35	s	1-chlorooctadecane	56.575	59.379	E3	-5.0	111	0.00
36		c-22	66.806	66.707	E3	0.1	0#	0.00
37		c-24	66.806	65.519	E3	1.9	0#	0.00
38		c-26	66.806	65.031	E3	2.7	0#	0.00
39		c-28	66.806	64.086	E3	4.1	0#	0.00
40	h	c-30	66.806	62.872	E3	5.9	0#	0.00
41	h	c-36	66.806	58.670	E3	12.2	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000		0.0	0#	-15.69#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160204W.M Fri Feb 05 14:30:12 2016

8.5.2

8

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GDE794-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14195.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14195.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 21 May 2016   9:19 am
Operator  : thomasa
Sample    : cc735-50,gde794
Misc      : op47537,gde794,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:54:09 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	102.075 E3	1.0	95	0.00
3		2-methylnaphthalene	102.482	102.576 E3	-0.1	97	0.00
4	s	2-fluorobiphenyl	92.230	92.240 E3	-0.0	97	0.00
5		acenaphthylene	100.602	101.712 E3	-1.1	98	0.00
6	s	2-bromonaphthalene	62.755	62.004 E3	1.2	95	0.00
7		acenaphthene	103.376	104.964 E3	-1.5	98	0.00
8		fluorene	101.567	103.821 E3	-2.2	99	0.00
9		phenanthrene	101.763	104.098 E3	-2.3	100	0.00
10		anthracene	97.008	100.371 E3	-3.5	101	0.00
11	s	o-terphenyl	102.427	104.485 E3	-2.0	99	0.00
12		fluoranthene	99.941	103.602 E3	-3.7	102	0.00
13		pyrene	101.462	106.316 E3	-4.8	104	0.00
14		benzo(a)anthracene	96.675	100.261 E3	-3.7	103	0.00
15		chrysene	97.341	102.273 E3	-5.1	103	0.00
16		benzo(B)fluoranthene	99.002	104.335 E3	-5.4	105	0.00
17		benzo(k)fluoranthene	94.503	103.413 E3	-9.4	105	0.00
18		benzo(a)pyrene	92.435	99.418 E3	-7.6	105	0.00
19		indeno(1,2,3-cd)pyrene	94.658	106.001 E3	-12.0	109	0.00
20		dibenzo(ah)anthracene	91.399	99.299 E3	-8.6	106	0.00
21		benzo(ghi)perylene	92.123	102.241 E3	-11.0	109	0.00

Signal #2

25	h	c-9	73.872	76.828 E3	-4.0	0#	0.00
26	h	c-10	73.872	77.697 E3	-5.2	0#	0.00
27		naphthalene #2	79.872	82.839 E3	-3.7	109	0.00
28		c-12	73.872	76.960 E3	-4.2	0#	0.00
29		2-methylnaphthalene #2	80.566	82.660 E3	-2.6	109	0.00
30		c-14	73.872	76.159 E3	-3.1	0#	0.00
31		c-16	73.872	75.498 E3	-2.2	0#	0.00

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GDE794-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14195.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	75.746	E3	-2.5	0#	0.00
33		c-19	66.806	75.229	E3	-12.6	0#	0.00
34		c-20	66.806	73.816	E3	-10.5	0#	0.00
35	s	1-chlorooctadecane	56.575	59.741	E3	-5.6	111	0.00
36		c-22	66.806	73.481	E3	-10.0	0#	0.00
37		c-24	66.806	68.765	E3	-2.9	0#	0.00
38		c-26	66.806	73.109	E3	-9.4	0#	0.00
39		c-28	66.806	70.581	E3	-5.7	0#	0.00
40	h	c-30	66.806	70.381	E3	-5.4	0#	0.00
41	h	c-36	66.806	63.937	E3	4.3	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160521W.M Mon May 23 07:54:12 2016

8.5.3

8

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GDE794-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14206.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14206.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 21 May 2016   2:26 pm
Operator  : thomasa
Sample    : cc735-50,gde794
Misc      : op47537,gde794,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:50:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	116.584 E3	-13.0	109	0.00
3		2-methylnaphthalene	102.482	114.541 E3	-11.8	108	0.00
4	s	2-fluorobiphenyl	92.230	104.840 E3	-13.7	110	0.00
5		acenaphthylene	100.602	115.443 E3	-14.8	111	0.00
6	s	2-bromonaphthalene	62.755	70.678 E3	-12.6	109	0.00
7		acenaphthene	103.376	120.875 E3	-16.9	113	0.00
8		fluorene	101.567	116.923 E3	-15.1	112	0.00
9		phenanthrene	101.763	115.097 E3	-13.1	110	0.00
10		anthracene	97.008	110.812 E3	-14.2	111	0.00
11	s	o-terphenyl	102.427	115.116 E3	-12.4	109	0.00
12		fluoranthene	99.941	110.582 E3	-10.6	109	0.00
13		pyrene	101.462	112.765 E3	-11.1	110	0.00
14		benzo(a)anthracene	96.675	103.512 E3	-7.1	106	0.00
15		chrysene	97.341	102.920 E3	-5.7	104	0.00
16		benzo(B)fluoranthene	99.002	99.991 E3	-1.0	100	0.00
17		benzo(k)fluoranthene	94.503	107.533 E3	-13.8	109	0.00
18		benzo(a)pyrene	92.435	98.958 E3	-7.1	105	0.00
19		indeno(1,2,3-cd)pyrene	94.658	103.010 E3	-8.8	106	0.00
20		dibenzo(ah)anthracene	91.399	100.814 E3	-10.3	108	0.00
21		benzo(ghi)perylene	92.123	101.360 E3	-10.0	108	0.00
Signal #2							
25	h	c-9	73.872	72.824 E3	1.4	0#	0.00
26	h	c-10	73.872	73.920 E3	-0.1	0#	0.00
27		naphthalene #2	79.872	79.110 E3	1.0	104	0.00
28		c-12	73.872	73.509 E3	0.5	0#	0.00
29		2-methylnaphthalene #2	80.566	79.154 E3	1.8	104	0.00
30		c-14	73.872	73.238 E3	0.9	0#	0.00
31		c-16	73.872	73.204 E3	0.9	0#	0.00

Continuing Calibration Summary

Job Number: MC45969 **Sample:** GDE794-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14206.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	73.717	E3	0.2	0#	0.00
33		c-19	66.806	73.538	E3	-10.1	0#	0.00
34		c-20	66.806	72.428	E3	-8.4	0#	0.00
35	s	1-chlorooctadecane	56.575	58.806	E3	-3.9	110	0.00
36		c-22	66.806	72.336	E3	-8.3	0#	0.00
37		c-24	66.806	68.014	E3	-1.8	0#	0.00
38		c-26	66.806	72.652	E3	-8.8	0#	0.00
39		c-28	66.806	71.097	E3	-6.4	0#	0.00
40	h	c-30	66.806	70.692	E3	-5.8	0#	0.00
41	h	c-36	66.806	65.543	E3	1.9	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160521W.M Mon May 23 08:00:34 2016

8.5.4

8

GC Semi-volatiles

Raw Data

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/23/16 08:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14199.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:10 am
Operator : thomasa
Sample : mc45969-1A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 08:05:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	1583856	17.173 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 85.86%#		
6) s 2-bromonaphthalene	7.332	971738	15.485 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 77.42%#		
11) s o-terphenyl	9.868	1929500	18.838 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 94.19%#		
35) s 1-chlorooctadecane	11.223	745646	13.180 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 65.90%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3261802	33.214 µg/mlm
2) naphthalene	5.162	64506	0.625 µg/ml
3) 2-methylnaphthalene	6.058	68738	0.671 µg/ml
7) acenaphthene	7.402	19846	0.192 µg/mlm
25) h c-9	2.647	2014430	27.269 µg/mlm
41) h c-36	16.983	986114	14.761 µg/mlm

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

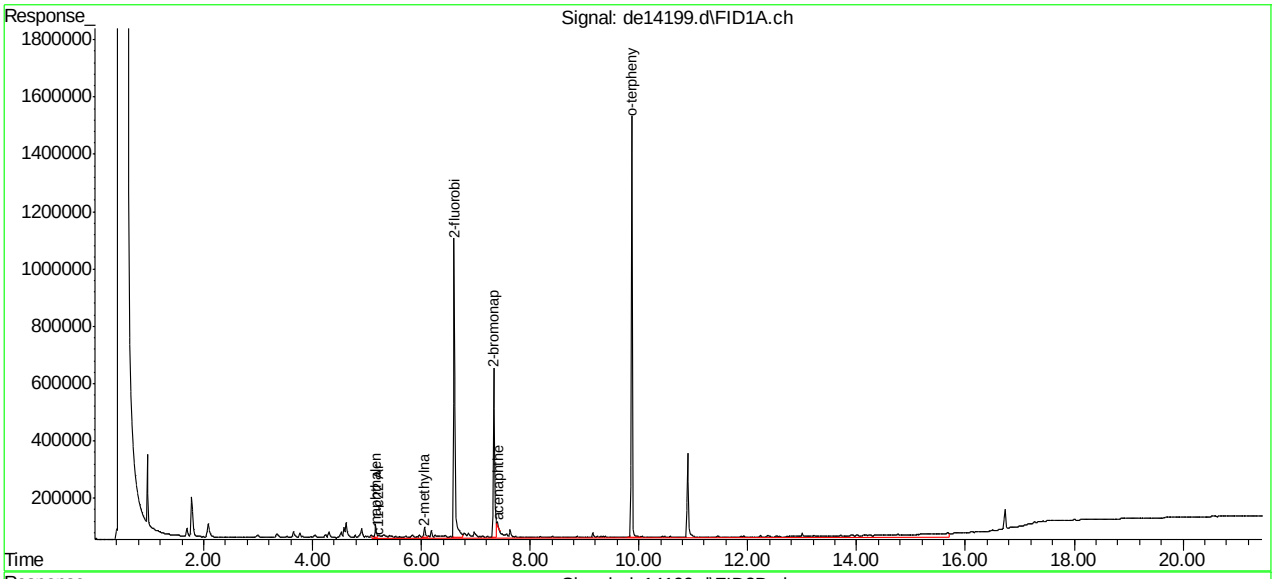
9.1.1
9

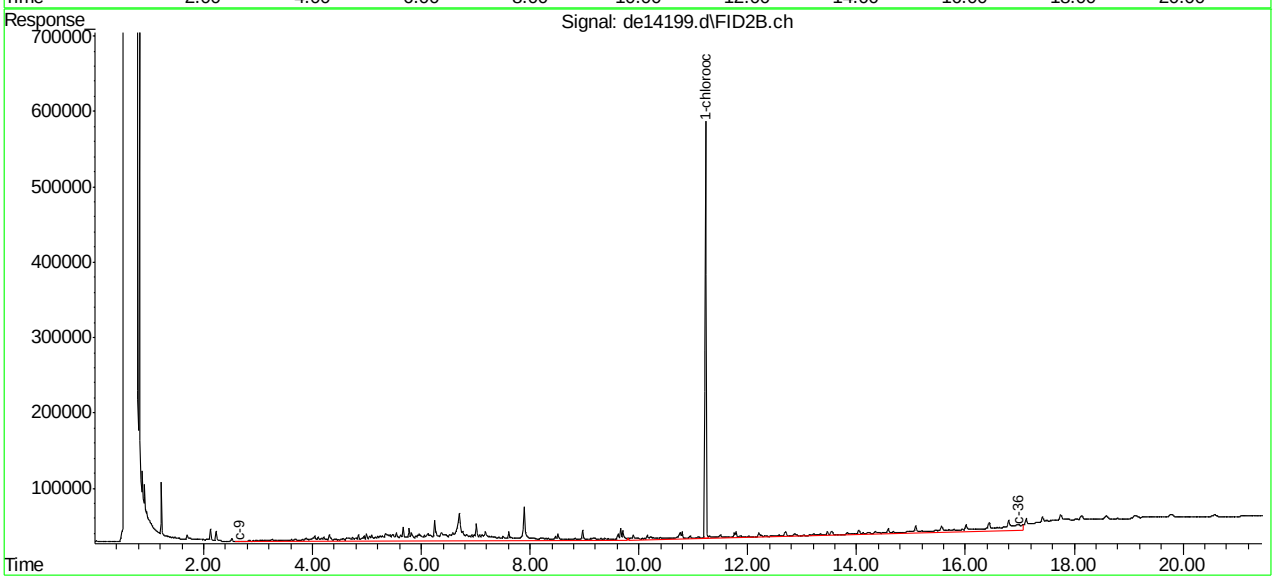
Quantitation Report (QT Reviewed)

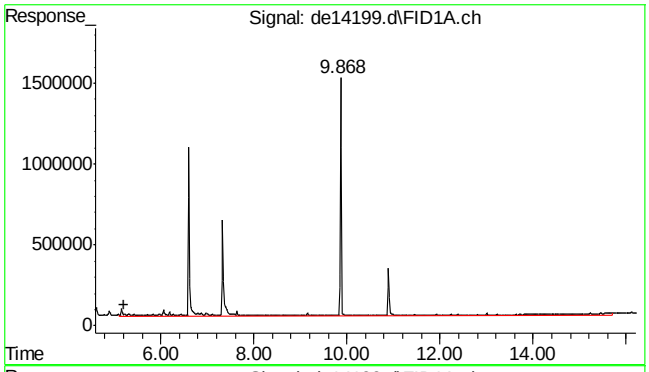
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14199.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:10 am
Operator : thomasa
Sample : mc45969-1A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 08:05:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

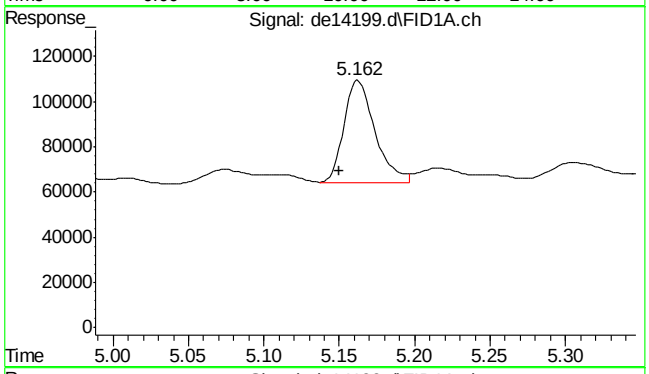






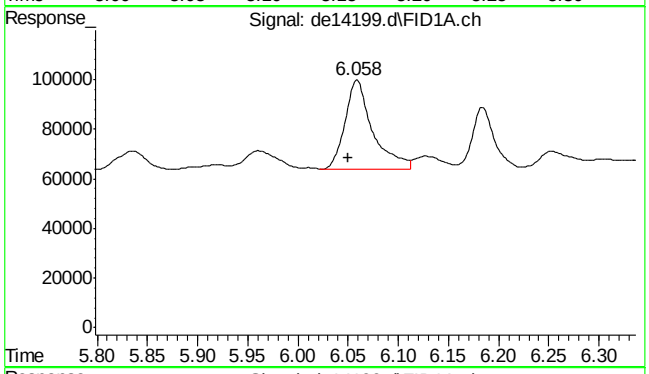
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3261802
Conc: 33.21 µg/ml m



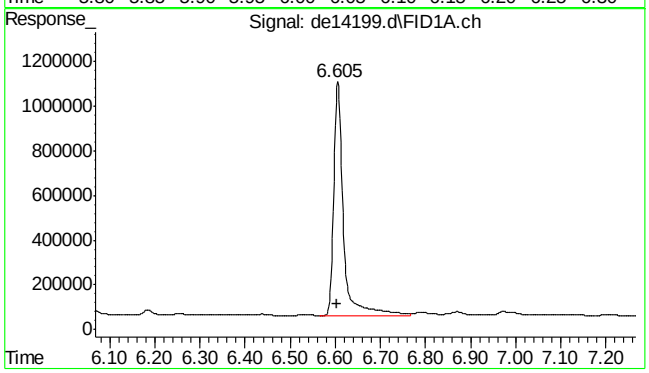
#2 naphthalene

R.T.: 5.162 min
Delta R.T.: 0.012 min
Response: 64506
Conc: 0.63 µg/ml



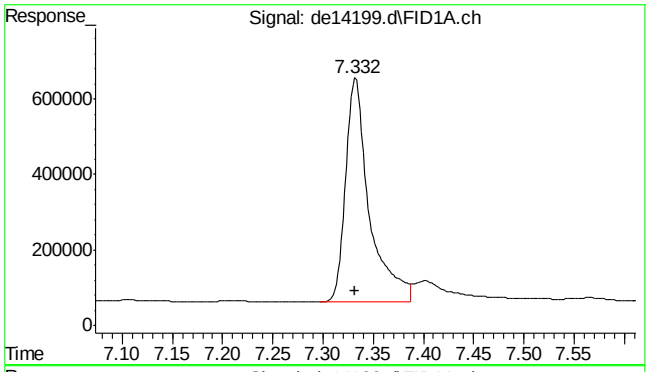
#3 2-methylnaphthalene

R.T.: 6.058 min
Delta R.T.: 0.008 min
Response: 68738
Conc: 0.67 µg/ml



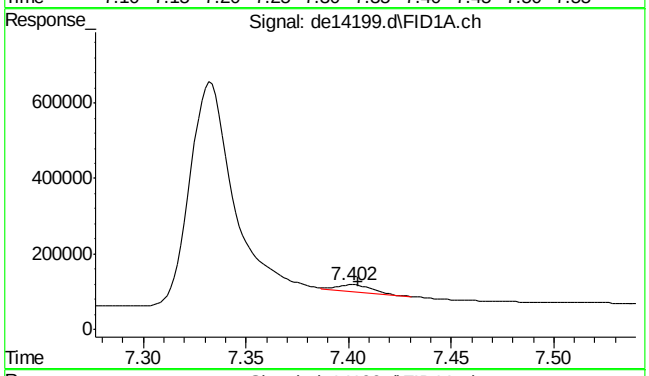
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1583856
Conc: 17.17 µg/ml



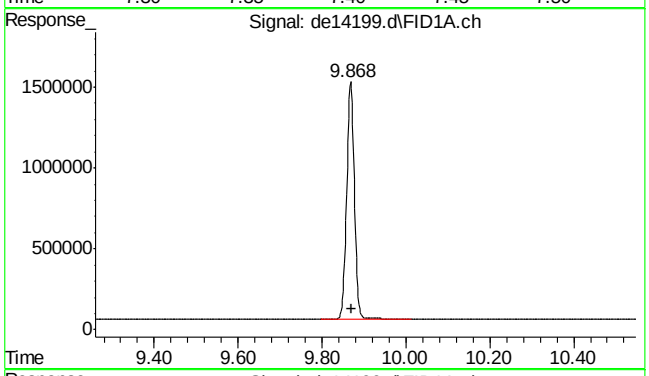
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 971738
Conc: 15.48 µg/ml



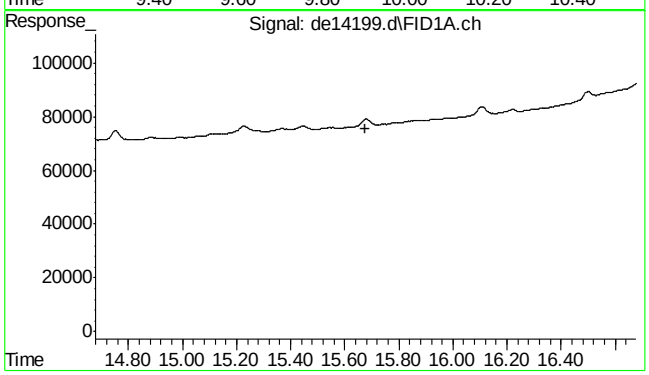
#7 acenaphthene

R.T.: 7.402 min
Delta R.T.: -0.003 min
Response: 19846
Conc: 0.19 µg/ml m



#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.002 min
Response: 1929500
Conc: 18.84 µg/ml



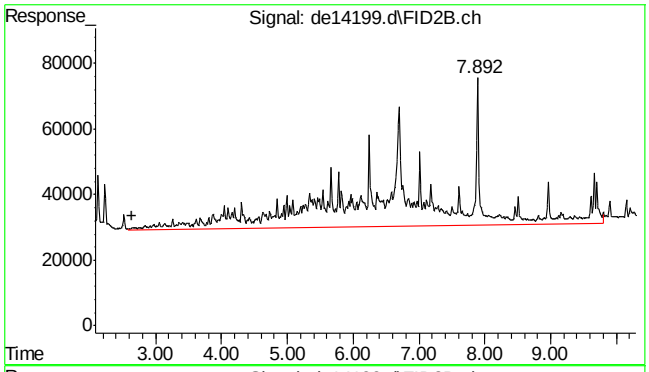
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.

9.1.1

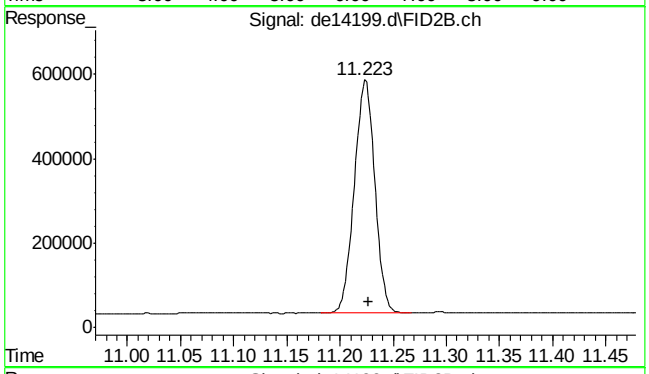
9

SGS ACCUTEST MC45969



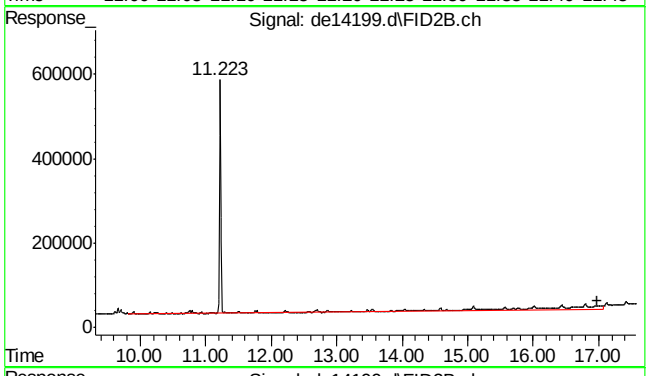
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 2014430
Conc: 27.27 µg/ml m



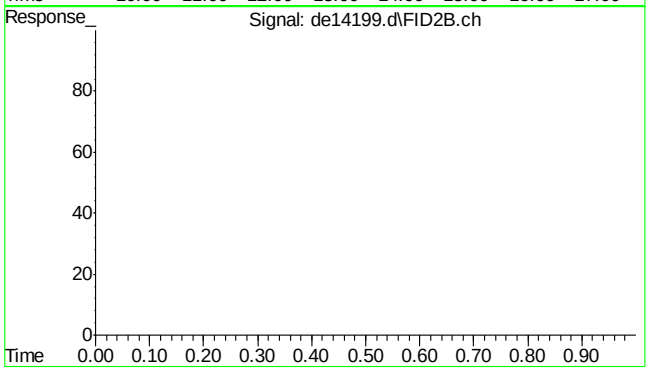
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 745646
Conc: 13.18 µg/ml



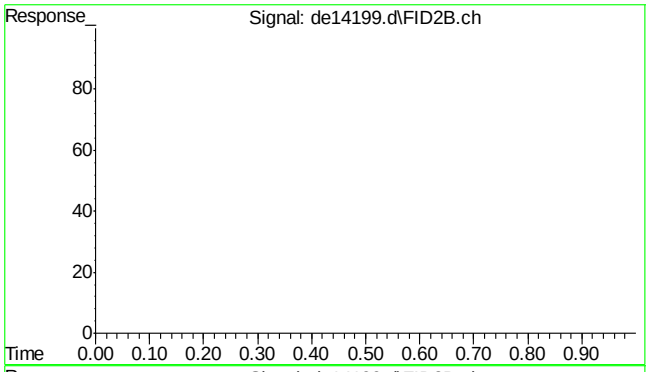
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 986114
Conc: 14.76 µg/ml m



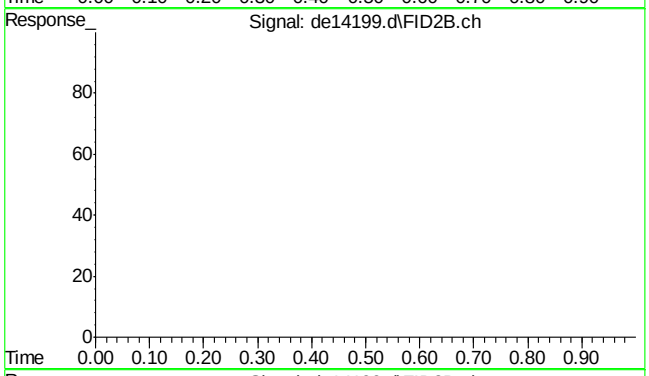
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



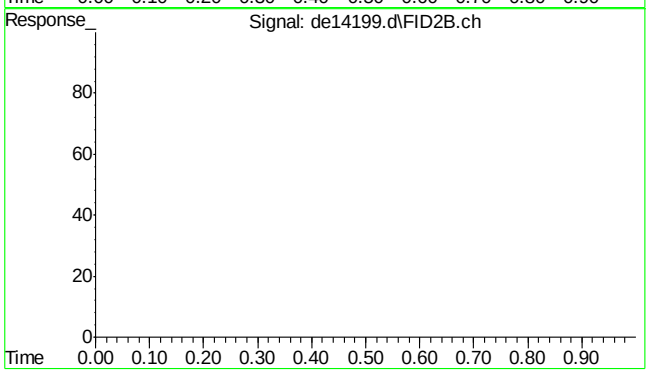
#43 bht

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

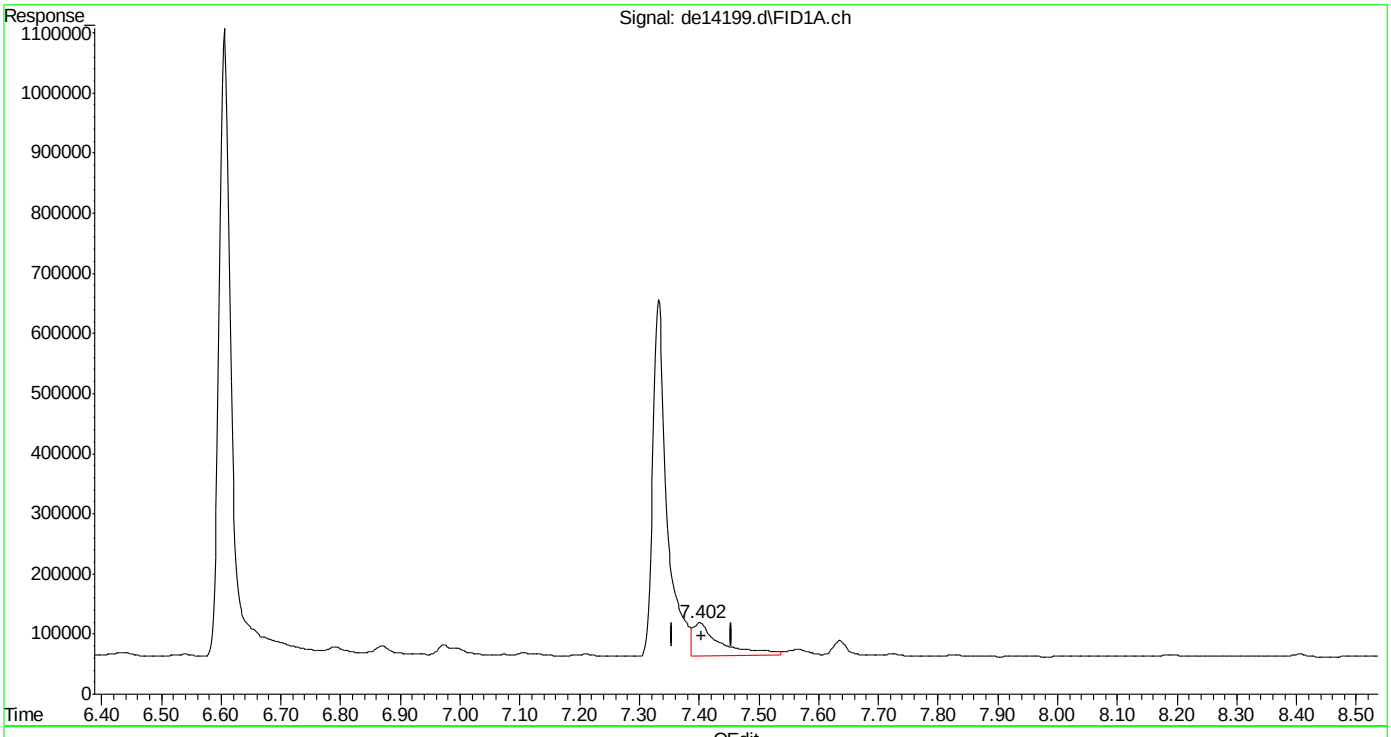
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14199.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:10 am
Operator : thomasa
Sample : mc45969-1A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene
7.402min 1.738 µg/ml
response 179655

(+) = Expected Retention Time
EPH160521W.M Mon May 23 08:04:48 2016

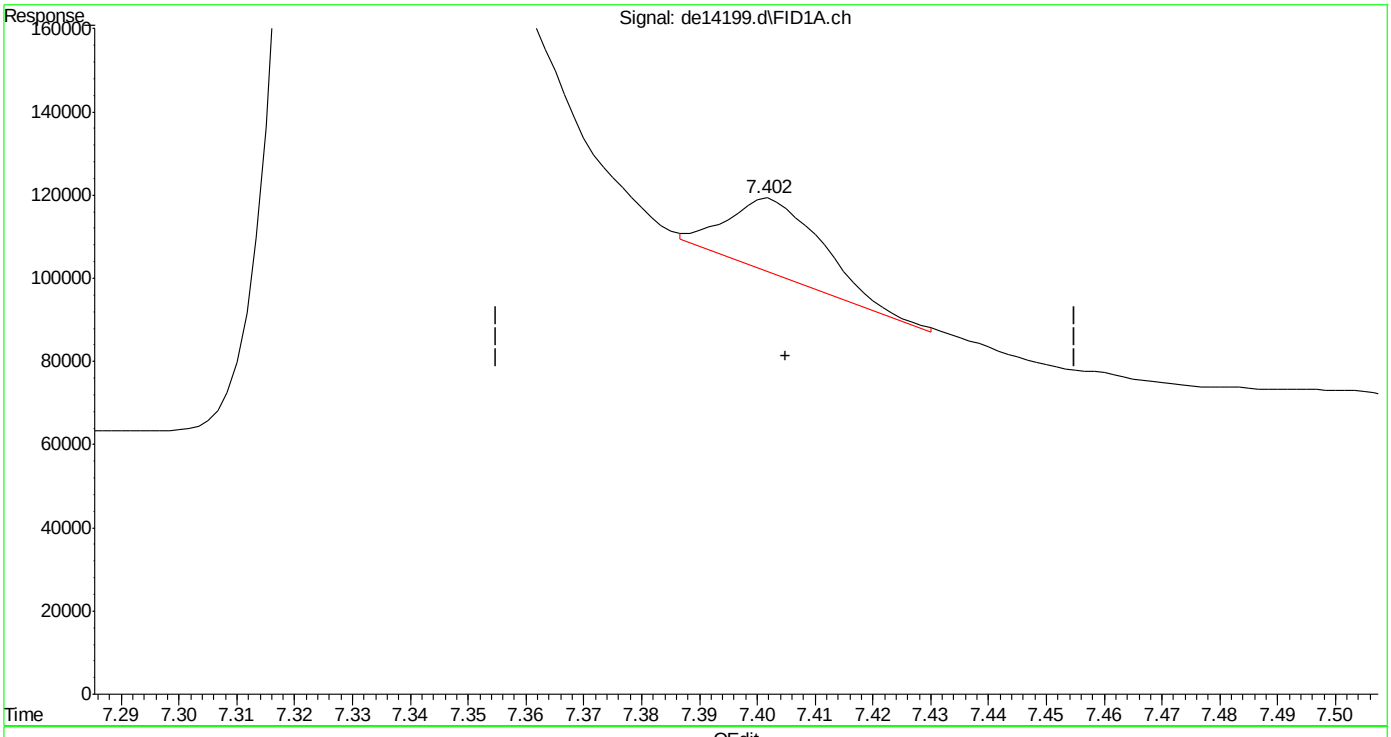
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14199.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:10 am
Operator : thomasa
Sample : mc45969-1A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene
7.402min 0.192 µg/ml m
response 19846

(+) = Expected Retention Time
EPH160521W.M Mon May 23 08:04:54 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/23/16 08:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14200.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:38 am
Operator : thomasa
Sample : mc45969-2A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 08:06:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1308404	14.186 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 70.93%#	
6) s 2-bromonaphthalene	7.332	787735	12.553 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 62.77%#	
11) s o-terphenyl	9.868	1714078	16.735 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.67%#	
35) s 1-chlorooctadecane	11.223	736093	13.011 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 65.05%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2872332	29.248 µg/mlm
2) naphthalene	5.163	50296	0.488 µg/ml
3) 2-methylnaphthalene	6.060	54924	0.536 µg/ml
7) acenaphthene	7.402	28189	0.273 µg/mlm
25) h c-9	2.647	1408524	19.067 µg/mlm
41) h c-36	16.983	951772	14.247 µg/mlm

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

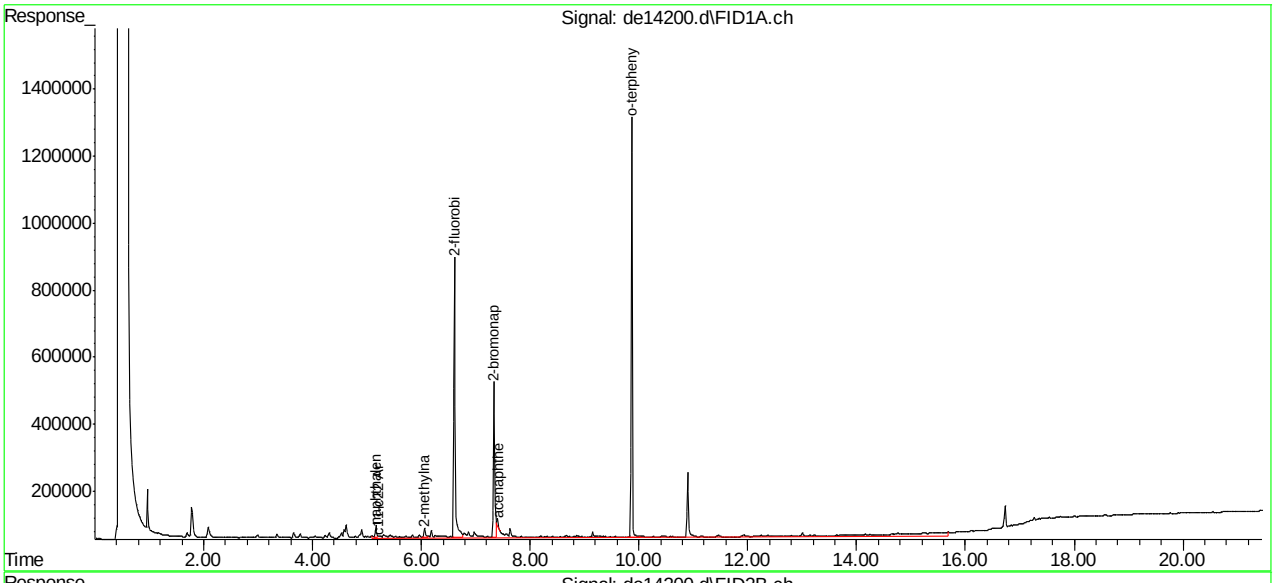
9.1.2
9

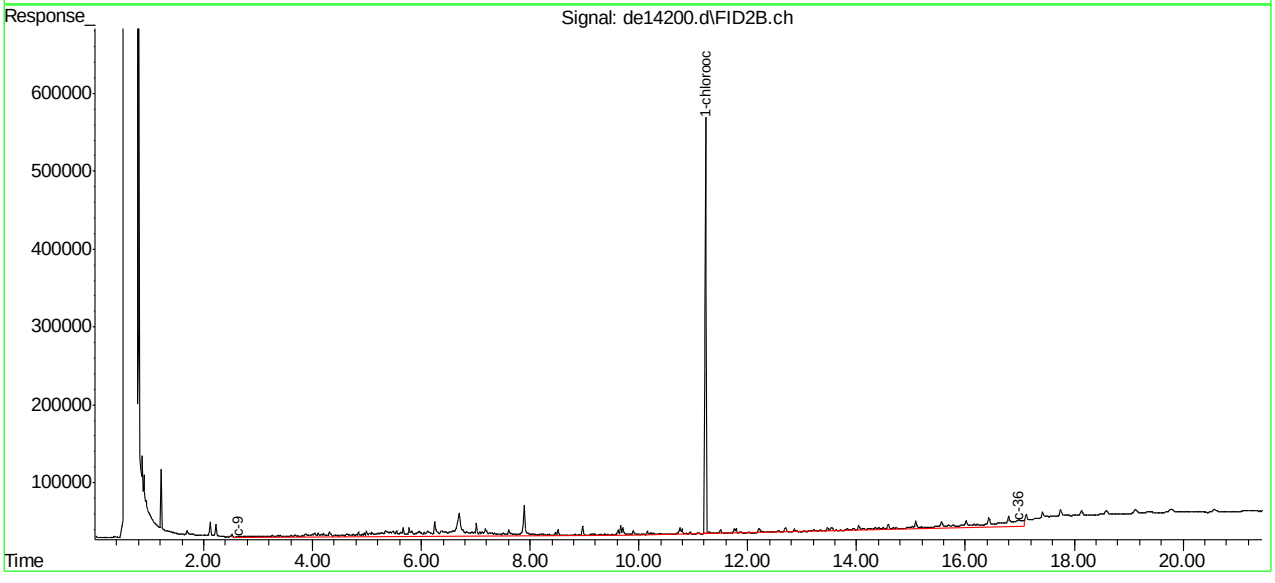
Quantitation Report (QT Reviewed)

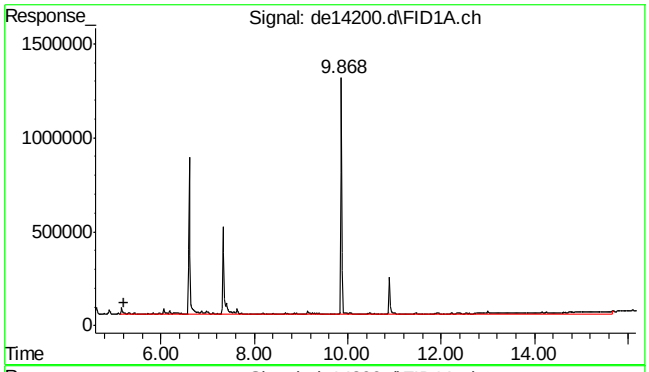
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14200.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:38 am
Operator : thomasa
Sample : mc45969-2A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 08:06:28 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

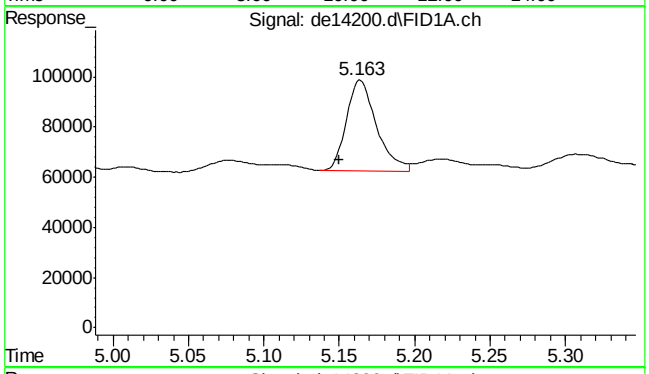






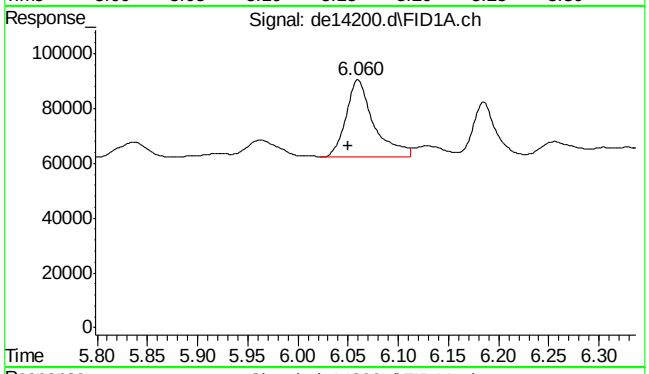
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2872332
Conc: 29.25 µg/ml m



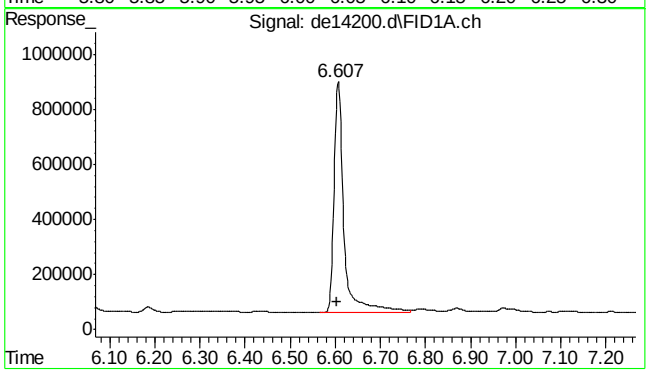
#2 naphthalene

R.T.: 5.163 min
Delta R.T.: 0.013 min
Response: 50296
Conc: 0.49 µg/ml



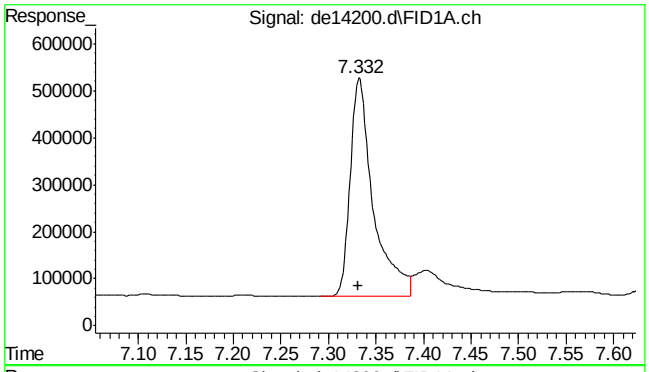
#3 2-methylnaphthalene

R.T.: 6.060 min
Delta R.T.: 0.010 min
Response: 54924
Conc: 0.54 µg/ml



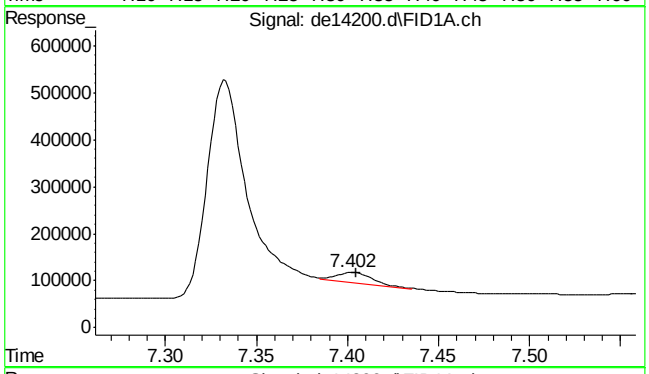
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1308404
Conc: 14.19 µg/ml



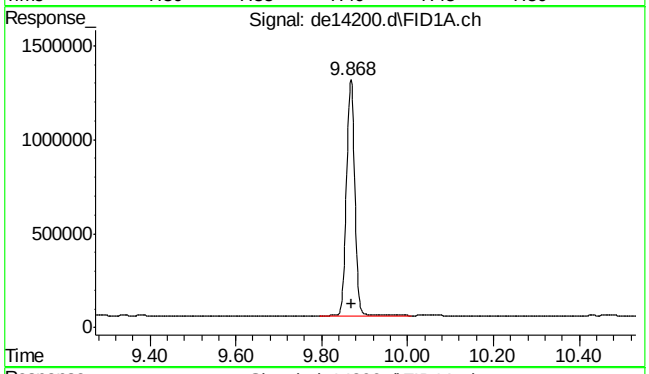
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 787735
Conc: 12.55 µg/ml



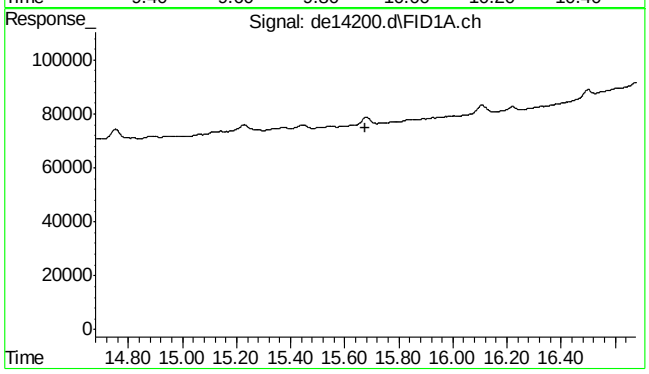
#7 acenaphthene

R.T.: 7.402 min
Delta R.T.: -0.003 min
Response: 28189
Conc: 0.27 µg/ml m



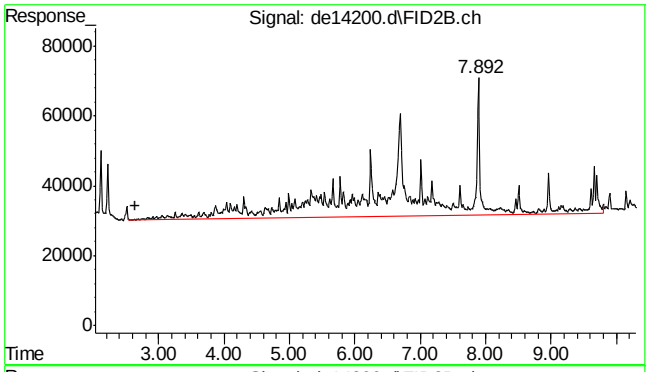
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.002 min
Response: 1714078
Conc: 16.73 µg/ml



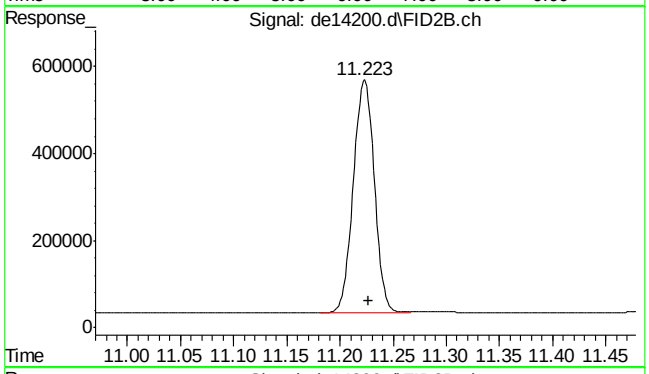
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



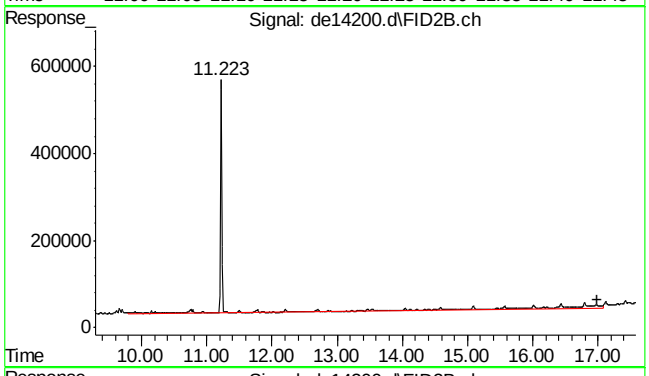
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1408524
Conc: 19.07 µg/ml m



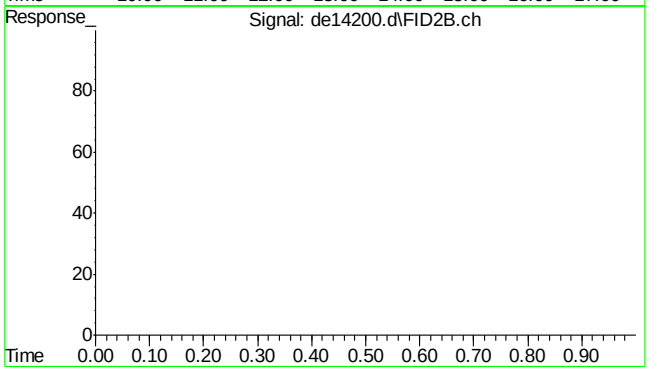
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 736093
Conc: 13.01 µg/ml



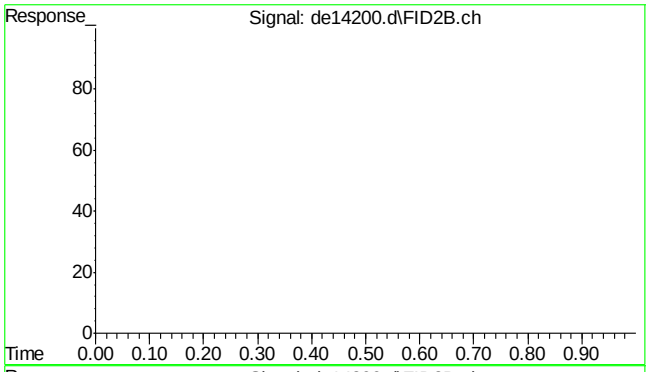
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 951772
Conc: 14.25 µg/ml m



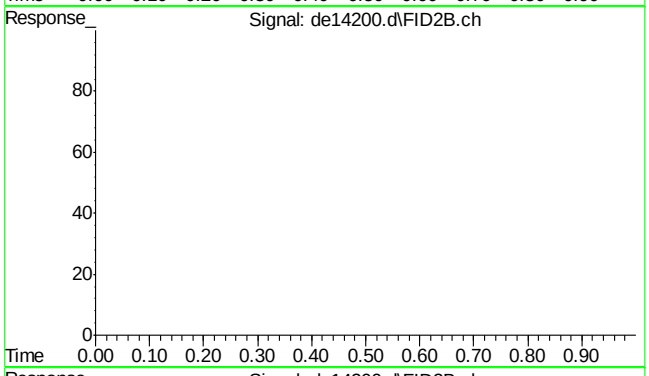
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



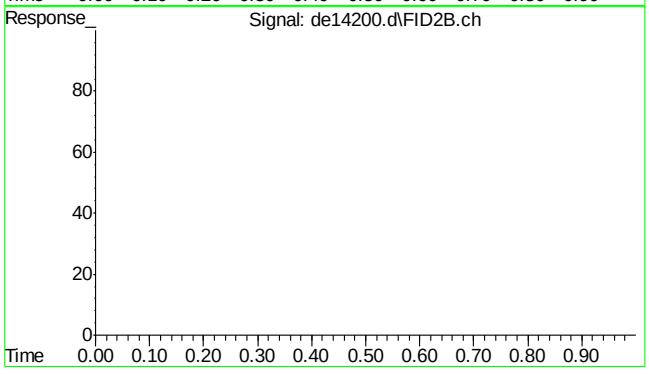
#43 bht

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

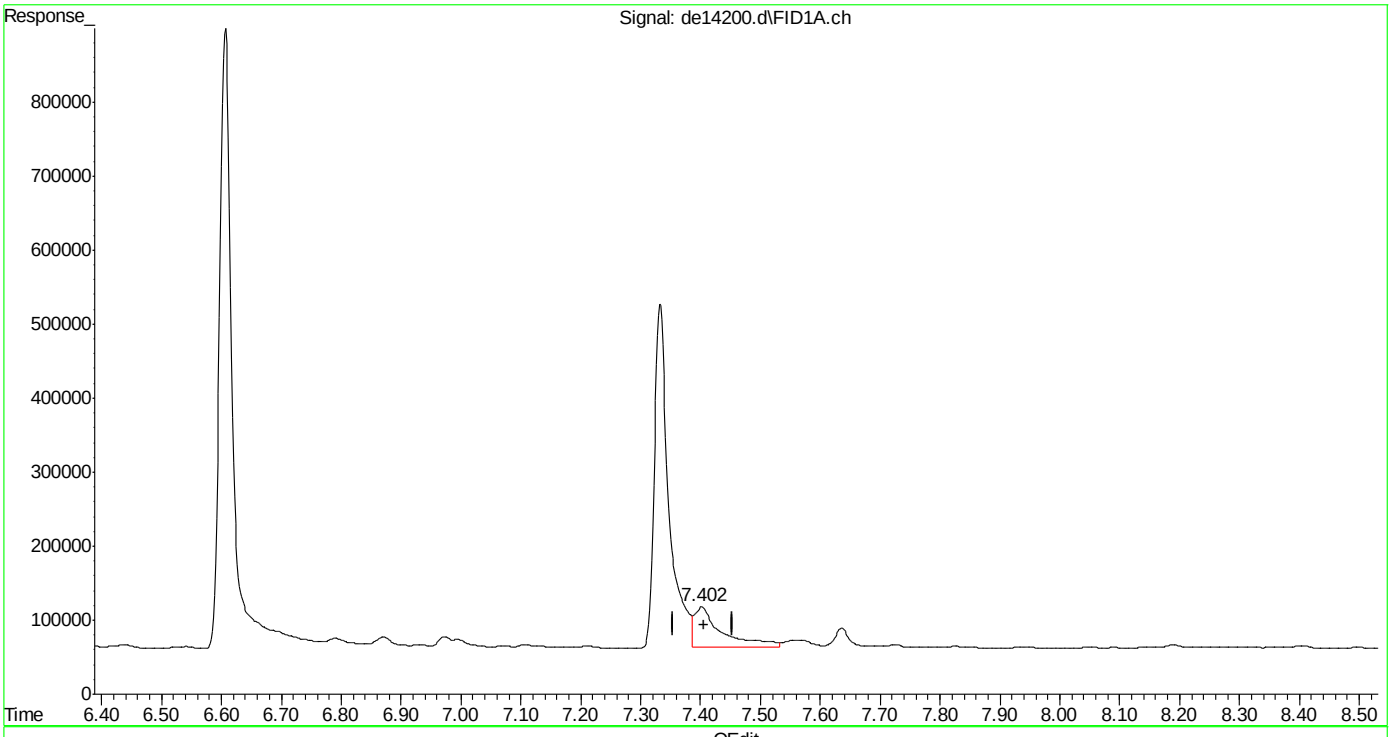
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14200.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:38 am
Operator : thomasa
Sample : mc45969-2A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:11 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene
7.402min 1.688 µg/ml
response 174508

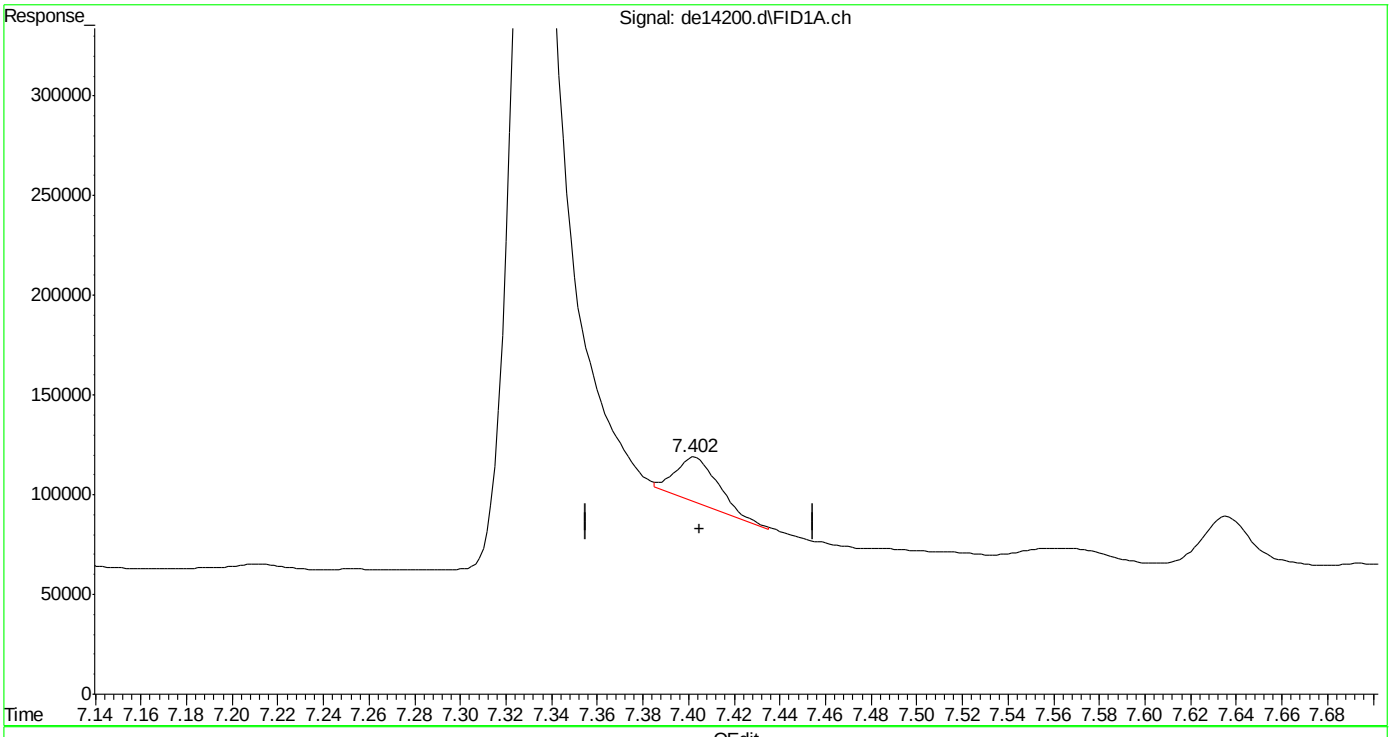
(+) = Expected Retention Time
EPH160521W.M Mon May 23 08:05:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14200.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 11:38 am
Operator : thomasa
Sample : mc45969-2A,op47537
Misc : op47537,gde794,890,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:11 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene
7.402min 0.273 µg/ml m
response 28189

(+) = Expected Retention Time
EPH160521W.M Mon May 23 08:05:51 2016

SGS ACCUTEST MC45969

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14201.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 12:06 pm
Operator : thomasa
Sample : mc45969-3A,op47537
Misc : op47537,gde794,865,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 08:07:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	1259462	13.656 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 68.28%#	
6) s 2-bromonaphthalene	7.332	904753	14.417 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 72.08%#	
11) s o-terphenyl	9.868	1758732	17.171 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 85.85%#	
35) s 1-chlorooctadecane	11.223	780998	13.805 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 69.03%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3176348	32.344 µg/mlm
2) naphthalene	5.162	67153	0.651 µg/ml
3) 2-methylnaphthalene	6.058	62982	0.615 µg/ml
25) h c-9	2.647	987306	13.365 µg/mlm
41) h c-36	16.983	1101144	16.483 µg/mlm

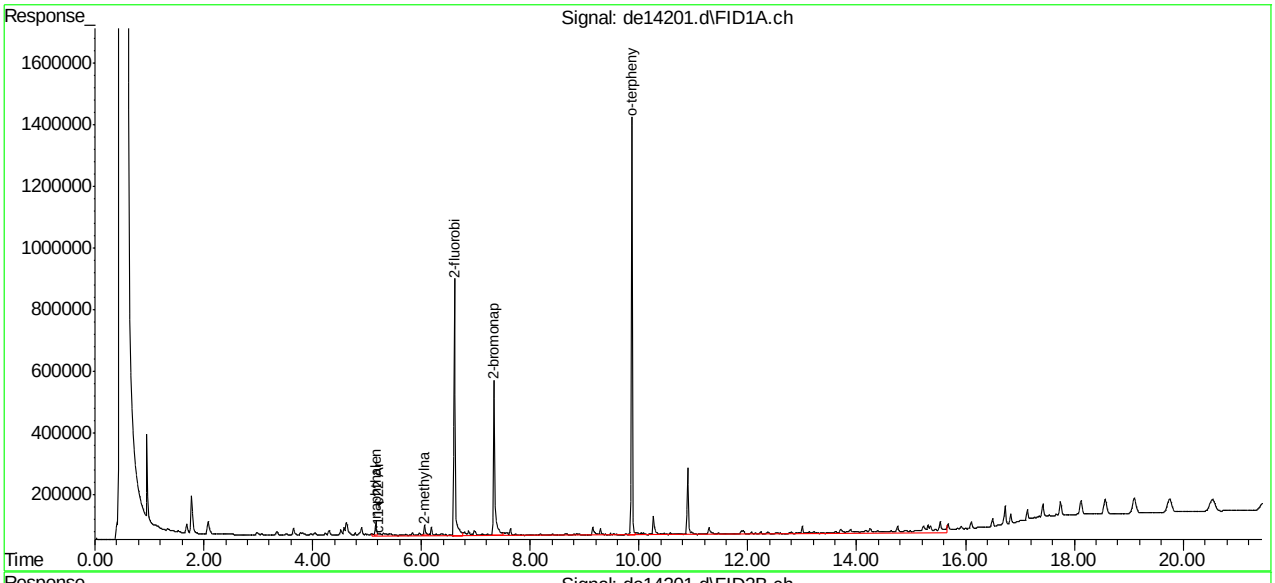
(f)=RT Delta > 1/2 Window (m)=manual int.

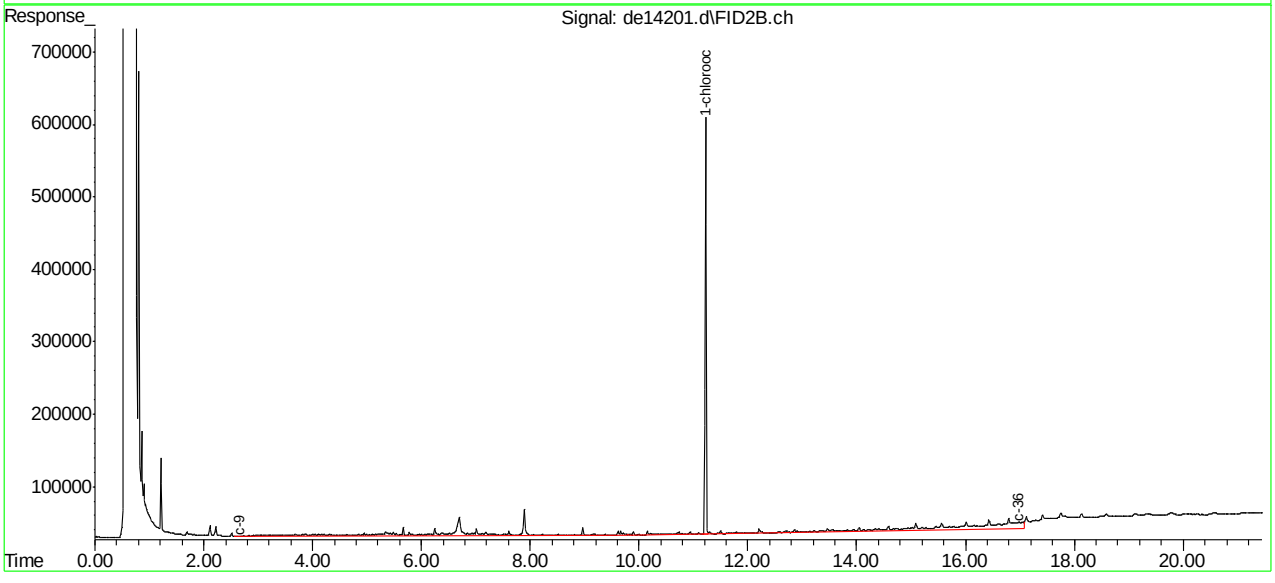
Quantitation Report (QT Reviewed)

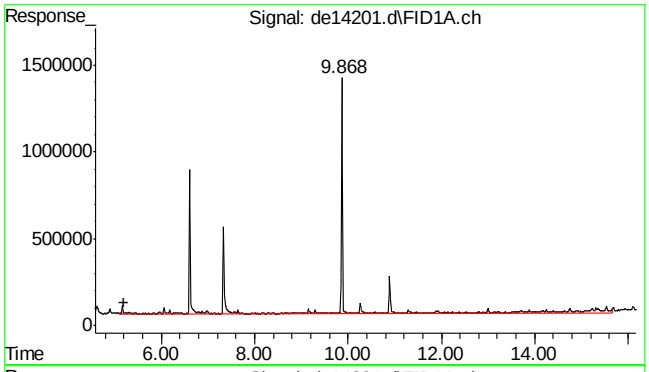
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14201.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 12:06 pm
Operator : thomasa
Sample : mc45969-3A,op47537
Misc : op47537,gde794,865,,,2,,s
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 08:07:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

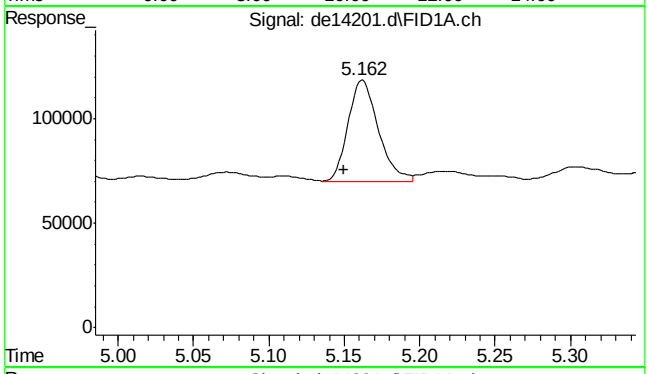






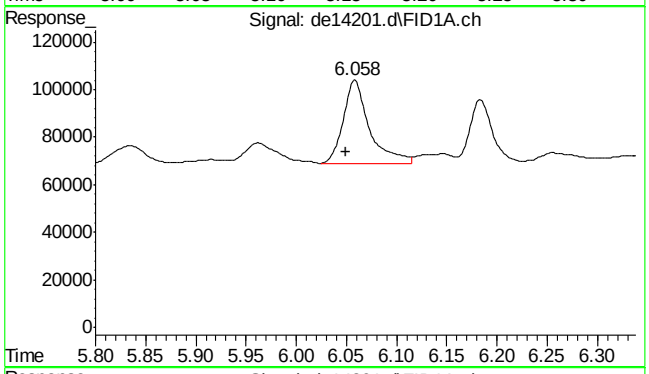
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3176348
Conc: 32.34 µg/ml m



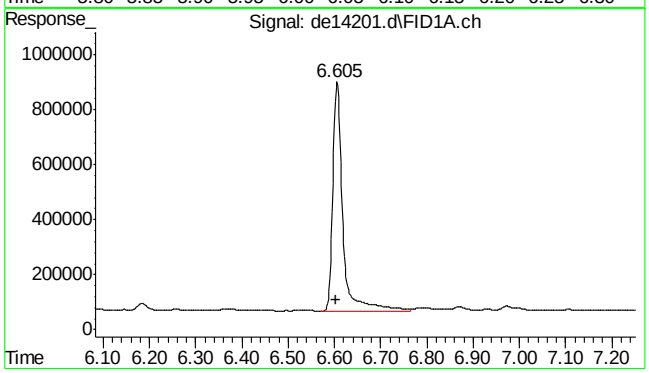
#2 naphthalene

R.T.: 5.162 min
Delta R.T.: 0.012 min
Response: 67153
Conc: 0.65 µg/ml



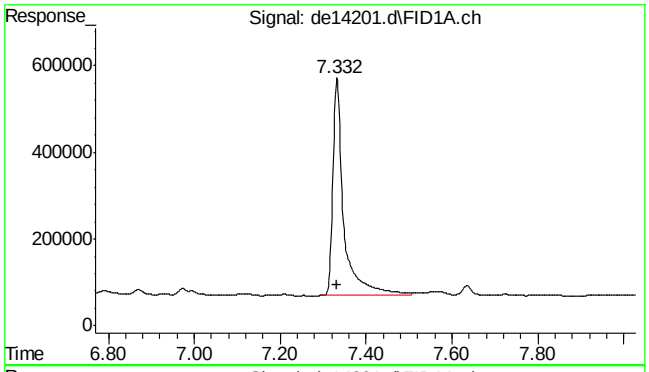
#3 2-methylnaphthalene

R.T.: 6.058 min
Delta R.T.: 0.008 min
Response: 62982
Conc: 0.61 µg/ml



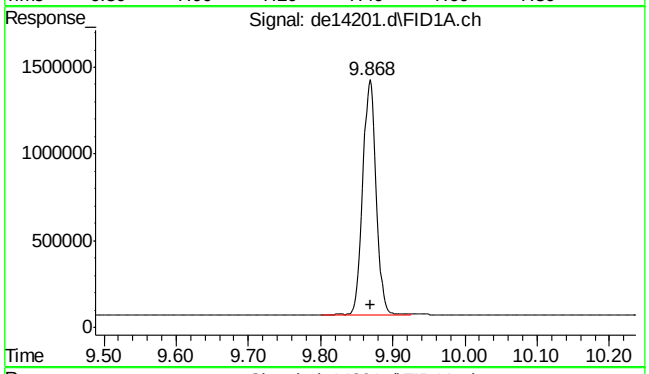
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1259462
Conc: 13.66 µg/ml



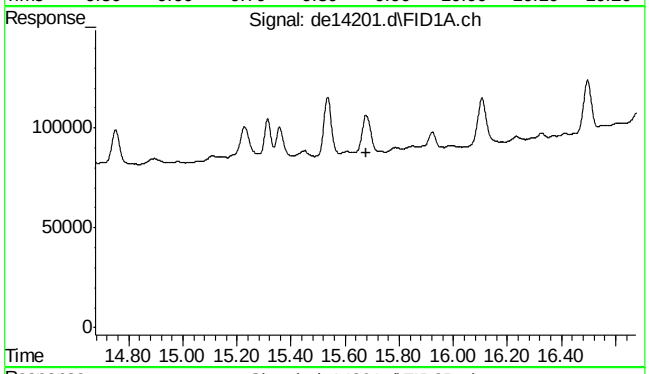
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 904753
Conc: 14.42 µg/ml



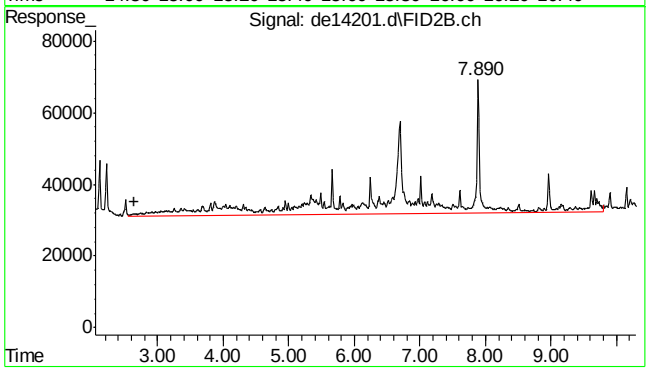
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.002 min
Response: 1758732
Conc: 17.17 µg/ml



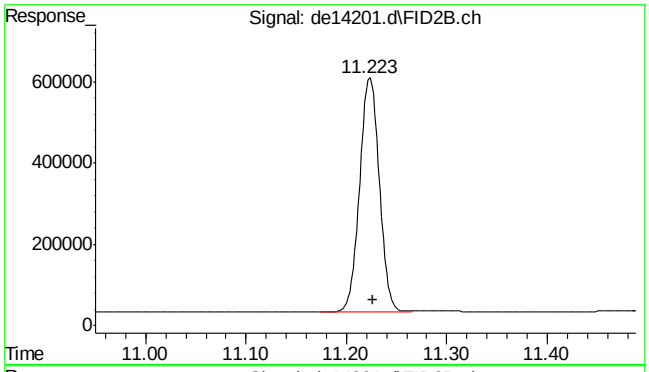
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



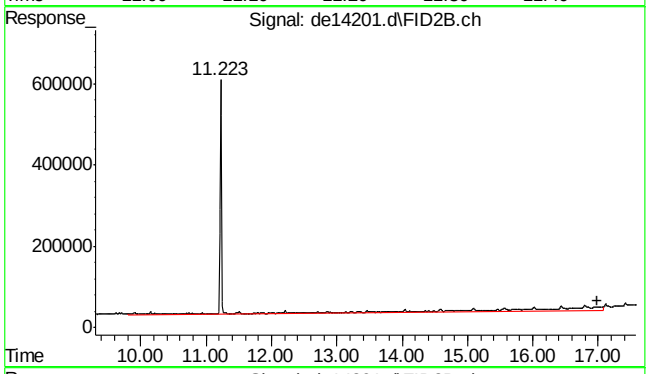
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 987306
Conc: 13.37 µg/ml m



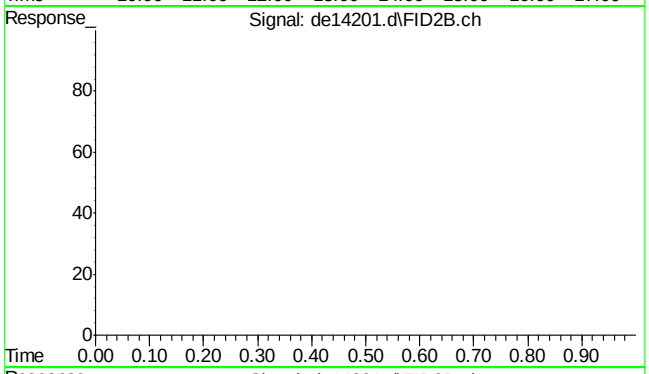
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 780998
Conc: 13.80 µg/ml



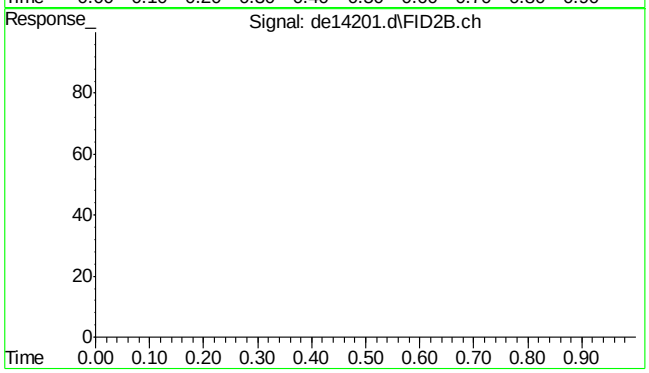
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1101144
Conc: 16.48 µg/ml m



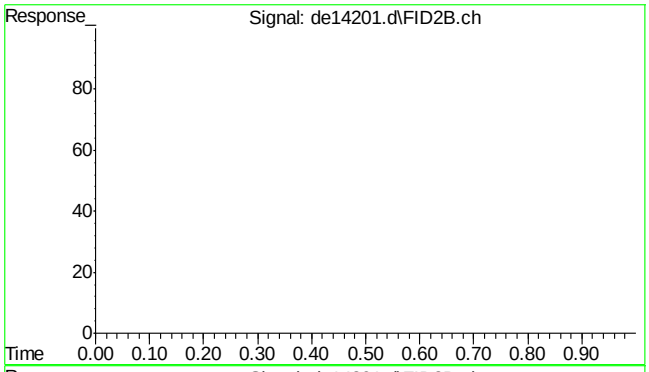
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



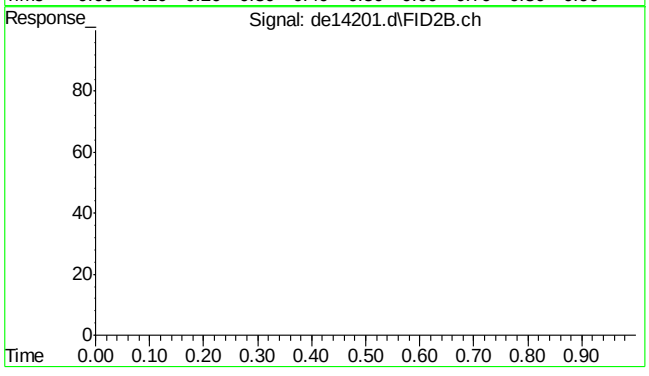
#43 bht

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 MC45969

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 10:42 am
Operator : thomasa
Sample : op47537-mb
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:57:34 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.603	1380101	14.964 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 74.82%#	
6) s 2-bromonaphthalene	7.330	1013060	16.143 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 80.72%#	
11) s o-terphenyl	9.868	2048753	20.002 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 100.01%#	
35) s 1-chlorooctadecane	11.222	771425	13.635 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 68.17%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2374027	24.174 µg/mlm
2) naphthalene	5.160	74251	0.720 µg/ml
3) 2-methylnaphthalene	6.060	33516	0.327 µg/ml
25) h c-9	2.647	755610	10.229 µg/mlm
41) h c-36	16.983	875180	13.100 µg/mlm

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

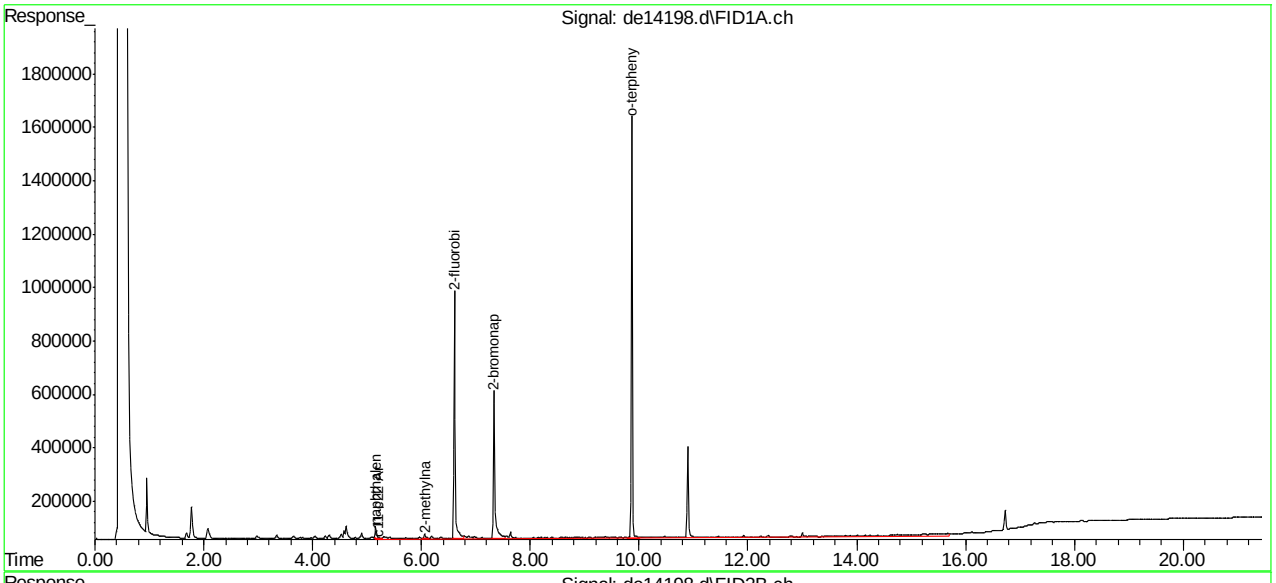
SGS ACCUTEST MC45969

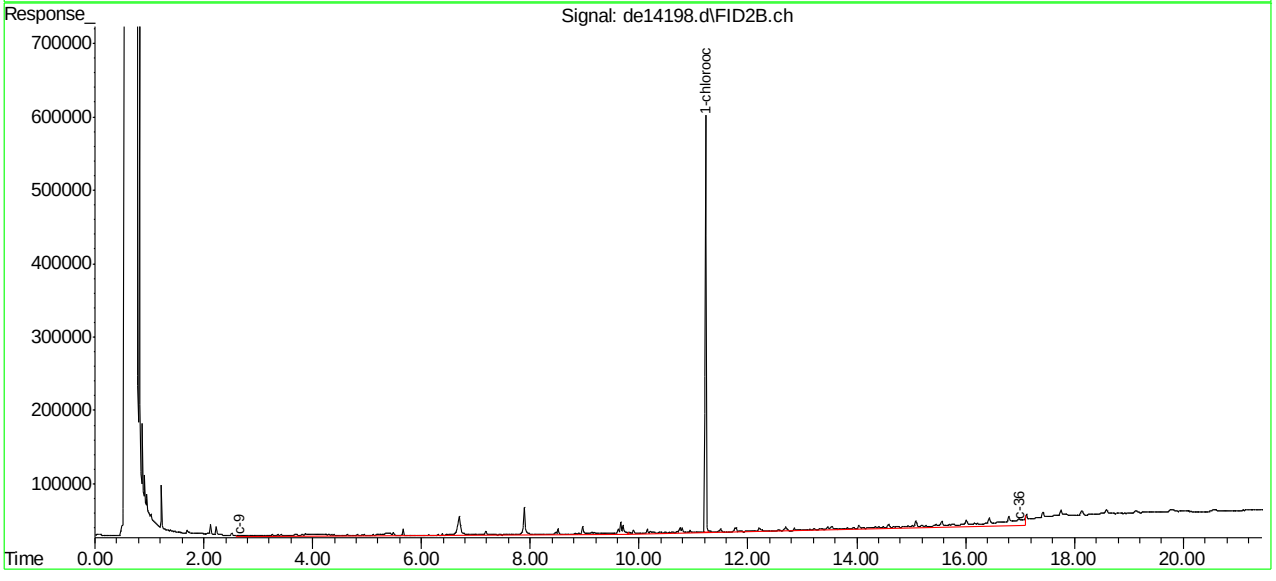
Quantitation Report (QT Reviewed)

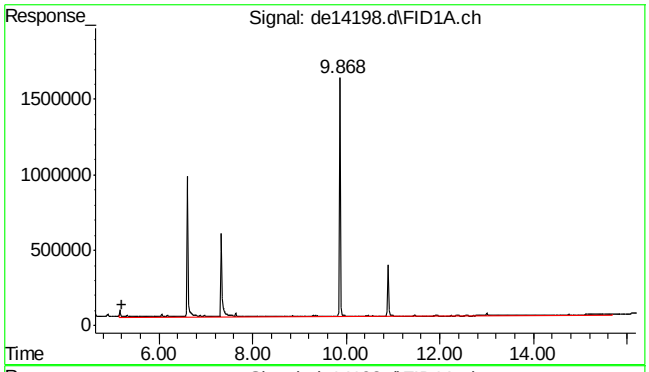
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 10:42 am
Operator : thomasa
Sample : op47537-mb
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:57:34 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

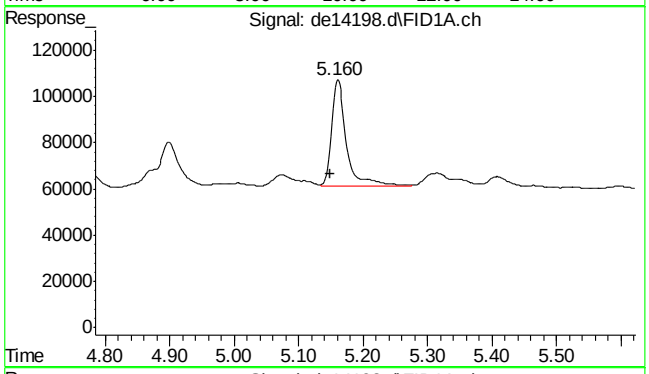






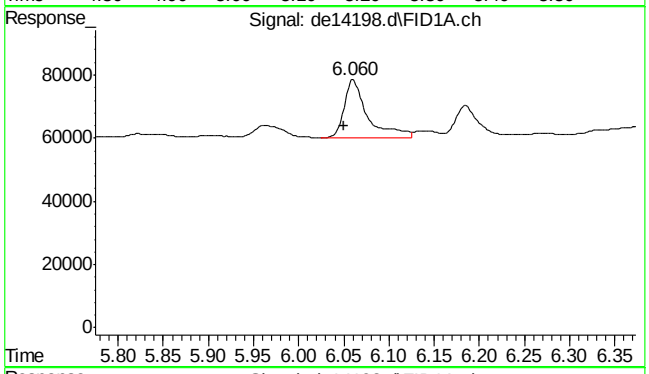
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2374027
Conc: 24.17 µg/ml m



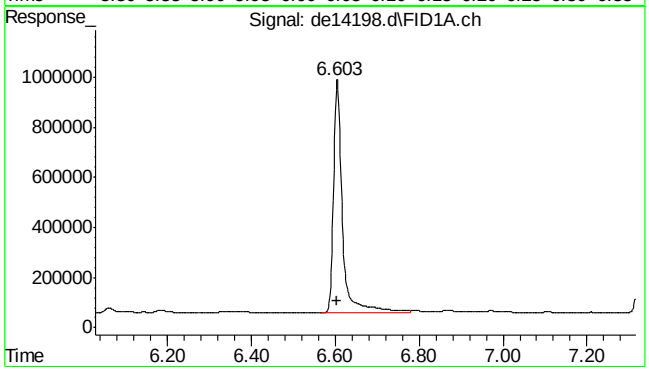
#2 naphthalene

R.T.: 5.160 min
Delta R.T.: 0.010 min
Response: 74251
Conc: 0.72 µg/ml



#3 2-methylnaphthalene

R.T.: 6.060 min
Delta R.T.: 0.010 min
Response: 33516
Conc: 0.33 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 1380101
Conc: 14.96 µg/ml

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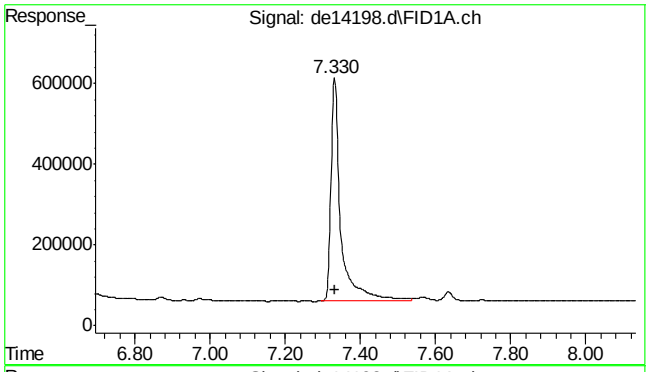
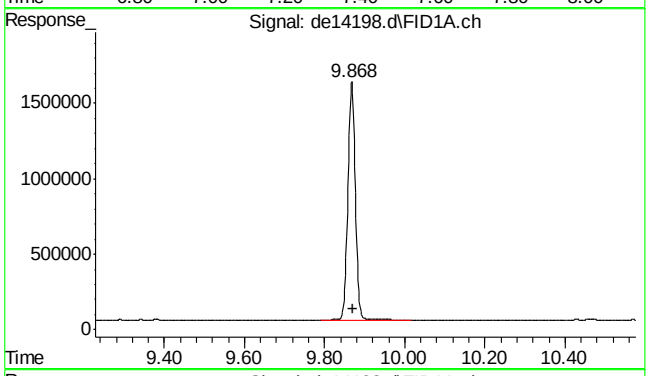


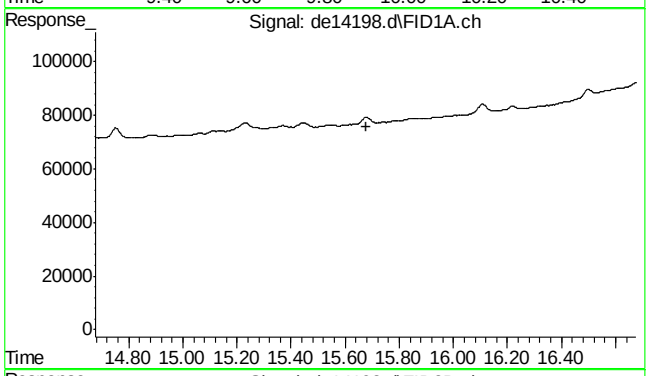
#6 2-bromonaphthalene

R.T.: 7.330 min
Delta R.T.: -0.002 min
Response: 1013060
Conc: 16.14 µg/ml



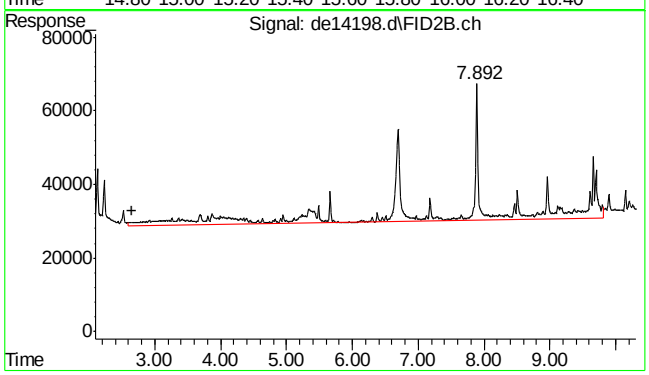
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.002 min
Response: 2048753
Conc: 20.00 µg/ml



#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 755610
Conc: 10.23 µg/ml m

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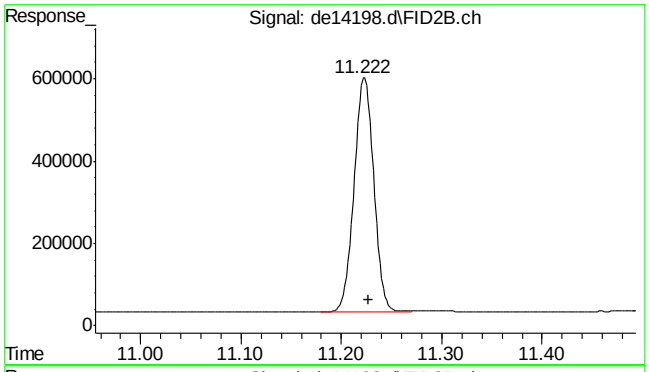
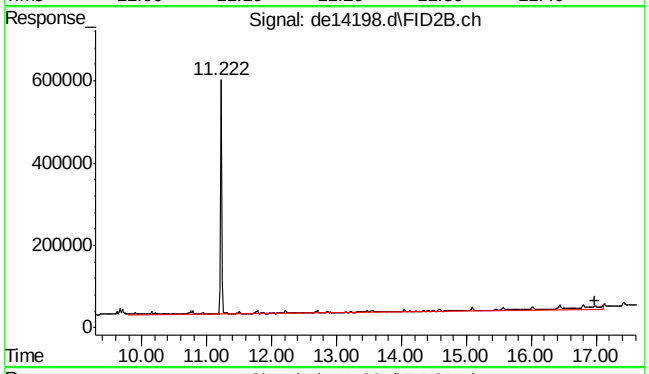


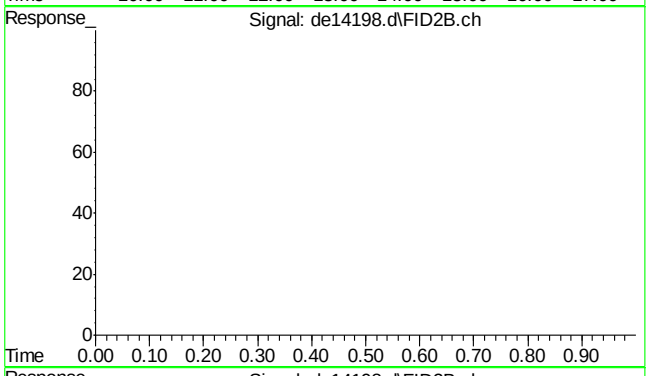
#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.005 min
Response: 771425
Conc: 13.64 µg/ml



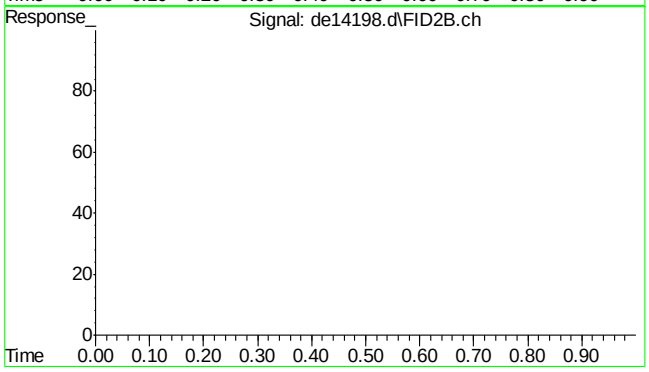
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 875180
Conc: 13.10 µg/ml m



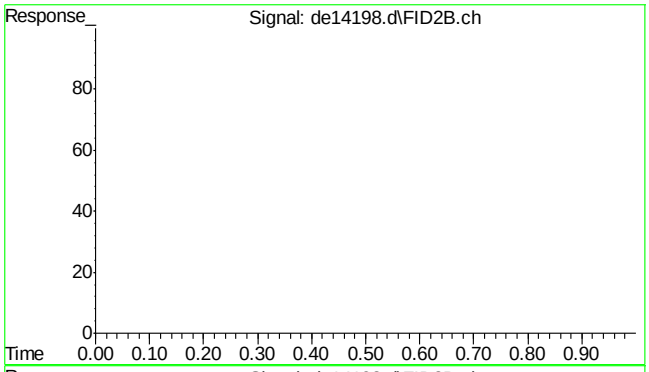
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



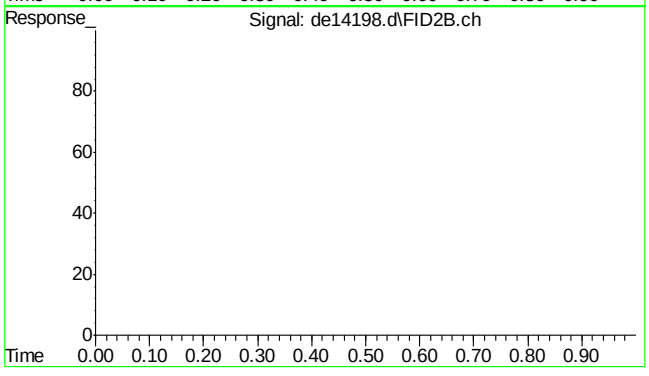
#43 bht

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 MC45969

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:46 am
Operator : thomasa
Sample : op47537-bs
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:55:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	1401054	15.191 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 75.96%#	
6) s 2-bromonaphthalene	7.332	887813	14.147 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 70.73%#	
11) s o-terphenyl	9.868	1802815	17.601 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 88.00%#	
35) s 1-chlorooctadecane	11.223	860855	15.216 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 76.08%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	36985569	376.617 µg/ml
2) naphthalene	5.153	1609734	15.607 µg/ml
3) 2-methylnaphthalene	6.052	1623128	15.838 µg/ml
5) acenaphthylene	7.162	1656656	16.467 µg/ml
7) acenaphthene	7.403	1903221	18.411 µg/ml
8) fluorene	8.047	1796914	17.692 µg/ml
9) phenanthrene	9.225	1818584	17.871 µg/ml
10) anthracene	9.283	1992614	20.541 µg/ml
12) fluoranthene	10.728	2059621	20.608 µg/ml
13) pyrene	10.985	2078129	20.482 µg/ml
14) benzo(a)anthracene	12.547	2090892	21.628 µg/ml
15) chrysene	12.593	2093447	21.506 µg/ml
16) benzo(B)fluoranthene	13.842	1967897	19.877 µg/ml
17) benzo(k)fluoranthene	13.868	2237435	23.676 µg/ml
18) benzo(a)pyrene	14.175	2060271	22.289 µg/ml
19) indeno(1,2,3-cd)pyrene	15.313	2095027	22.133 µg/ml
20) dibenzo(ah)anthracene	15.357	2087558	22.840 µg/ml
21) benzo(ghi)perylene	15.532	2118287	22.994 µg/ml
25) h c-9	2.647	1155102	15.637 µg/mlm
26) h c-10	3.815	1336197	18.088 µg/ml
27) naphthalene #2	5.487	5099	0.064 µg/ml
28) c-12	5.663	1414099	19.143 µg/ml
29) 2-methylnaphthalene #2	6.382	4358	0.054 µg/ml
30) c-14	7.180	1464064	19.819 µg/ml
31) c-16	8.510	1515748	20.519 µg/ml
32) c-18	9.703	1624404	21.989 µg/ml
33) c-19	10.258	1661417	24.869 µg/ml
34) c-20	10.790	1702083	25.478 µg/ml
36) c-22	11.785	1704375	25.512 µg/ml
37) c-24	12.703	1685034	25.223 µg/ml

SGS ACCUTEST MC45969

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:46 am
Operator : thomasa
Sample : op47537-bs
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:55:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.553	1647567	24.662	µg/ml
39)		c-28	14.347	1625308	24.329	µg/ml
40)	h	c-30	15.098	1632640	24.438	µg/mlm
41)	h	c-36	16.983	1712567	25.635	µg/mlm

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

9.3.1

9

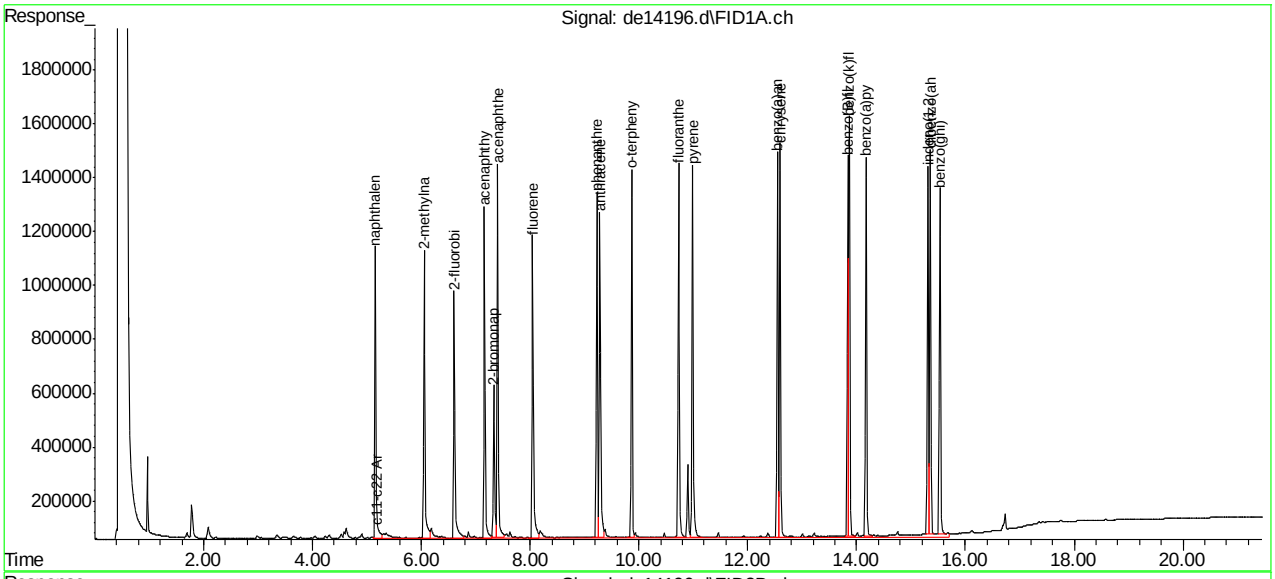
SGS ACCUTEST MC45969

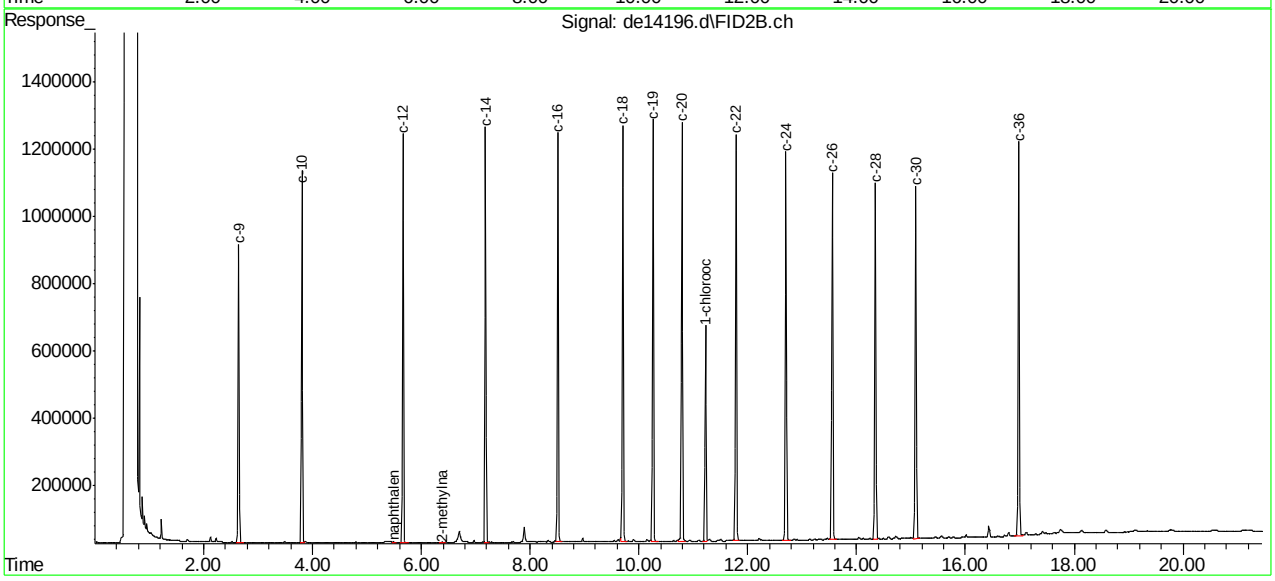
Quantitation Report (QT Reviewed)

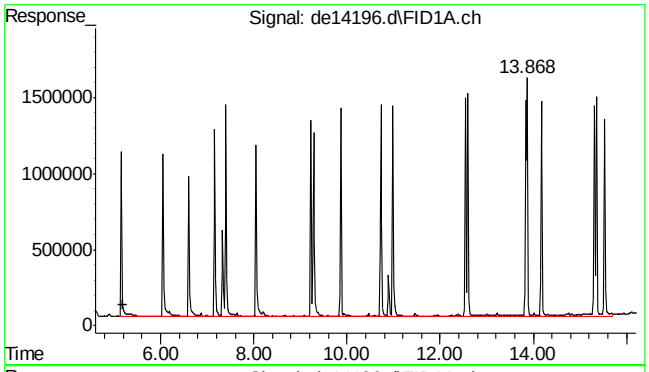
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:46 am
Operator : thomasa
Sample : op47537-bs
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:55:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

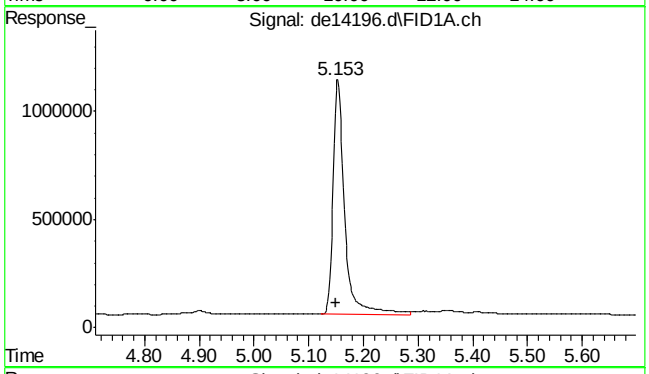






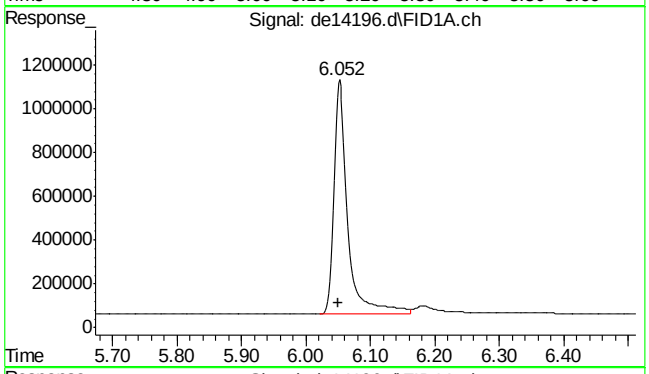
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 36985569
Conc: 376.62 µg/ml



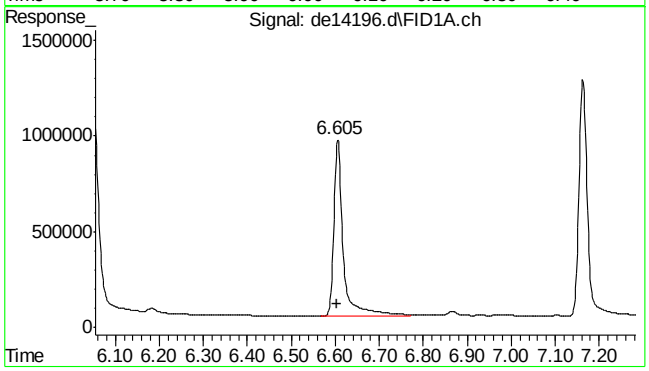
#2 naphthalene

R.T.: 5.153 min
Delta R.T.: 0.003 min
Response: 1609734
Conc: 15.61 µg/ml



#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.002 min
Response: 1623128
Conc: 15.84 µg/ml



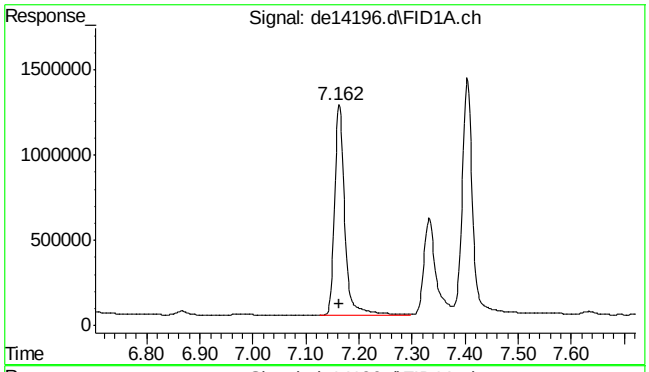
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1401054
Conc: 15.19 µg/ml

9.3.1

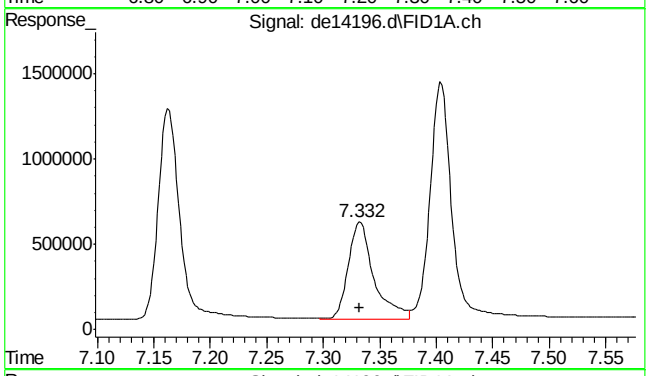
9

SGS ACCUTEST MC45969



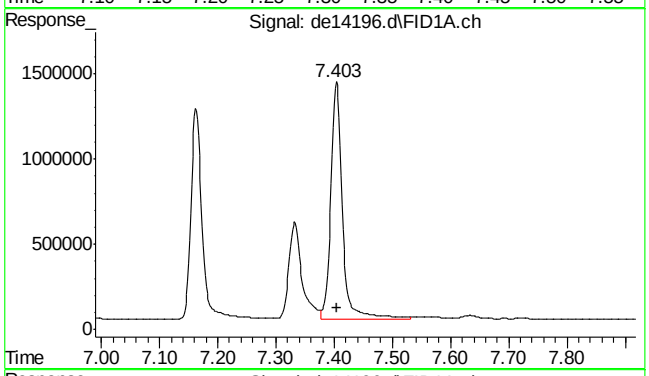
#5 acenaphthylene

R.T.: 7.162 min
Delta R.T.: -0.002 min
Response: 1656656
Conc: 16.47 µg/ml



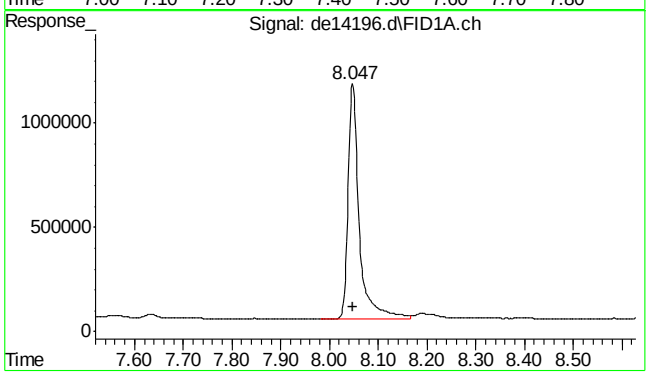
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 887813
Conc: 14.15 µg/ml



#7 acenaphthene

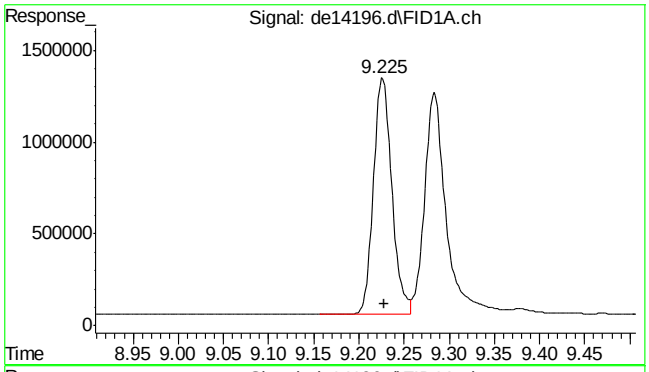
R.T.: 7.403 min
Delta R.T.: -0.002 min
Response: 1903221
Conc: 18.41 µg/ml



#8 fluorene

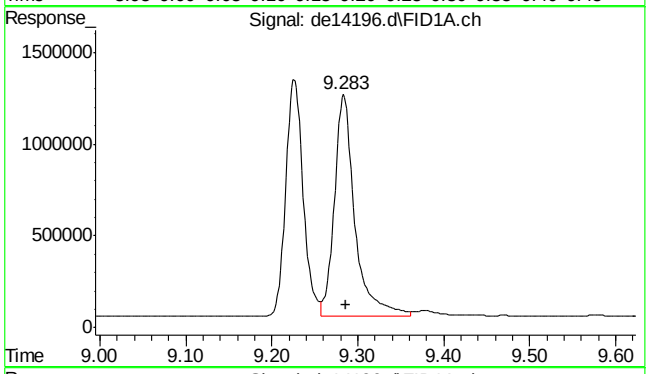
R.T.: 8.047 min
Delta R.T.: -0.002 min
Response: 1796914
Conc: 17.69 µg/ml

SGS ACCUTEST MC45969



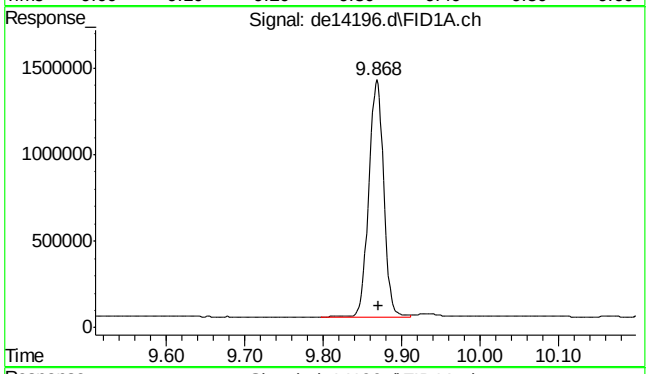
#9 phenanthrene

R.T.: 9.225 min
Delta R.T.: -0.003 min
Response: 1818584
Conc: 17.87 µg/ml



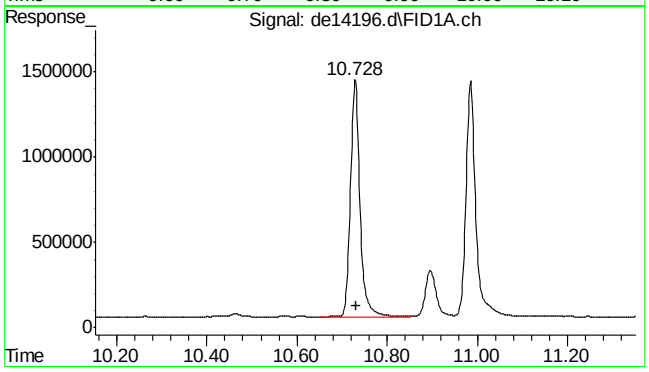
#10 anthracene

R.T.: 9.283 min
Delta R.T.: -0.003 min
Response: 1992614
Conc: 20.54 µg/ml



#11 o-terphenyl

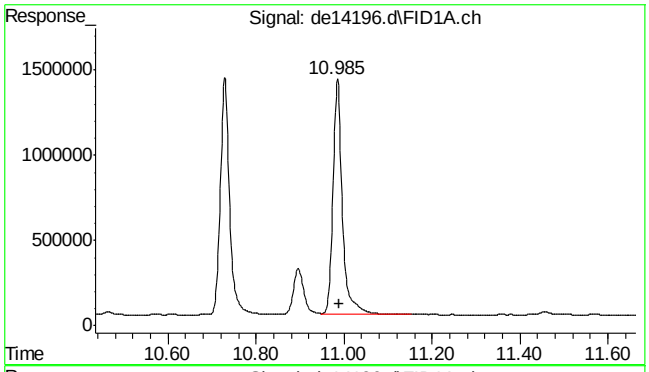
R.T.: 9.868 min
Delta R.T.: -0.002 min
Response: 1802815
Conc: 17.60 µg/ml



#12 fluoranthene

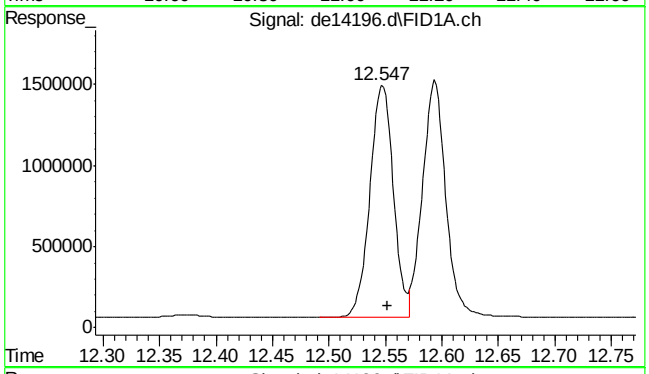
R.T.: 10.728 min
Delta R.T.: -0.003 min
Response: 2059621
Conc: 20.61 µg/ml

SGS ACCUTEST MC45969



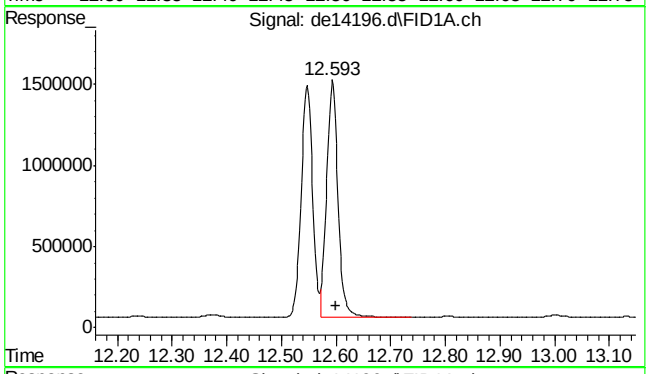
#13 pyrene

R.T.: 10.985 min
Delta R.T.: -0.003 min
Response: 2078129
Conc: 20.48 µg/ml



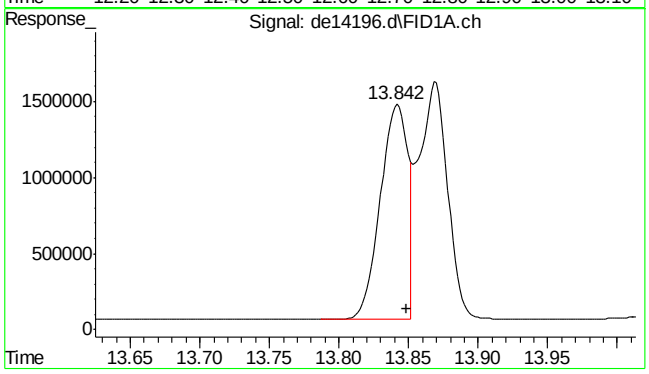
#14 benzo(a)anthracene

R.T.: 12.547 min
Delta R.T.: -0.005 min
Response: 2090892
Conc: 21.63 µg/ml



#15 chrysene

R.T.: 12.593 min
Delta R.T.: -0.007 min
Response: 2093447
Conc: 21.51 µg/ml



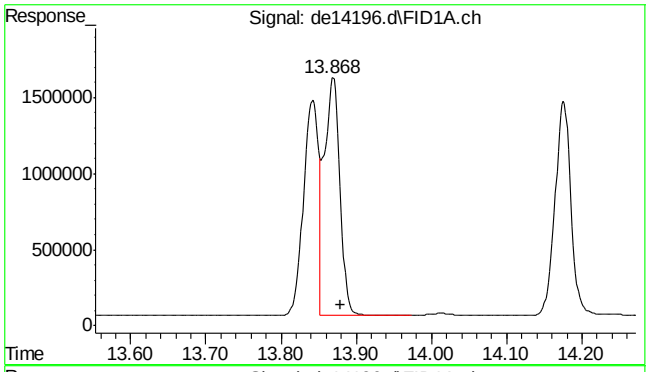
#16 benzo(B)fluoranthene

R.T.: 13.842 min
Delta R.T.: -0.007 min
Response: 1967897
Conc: 19.88 µg/ml

9.3.1

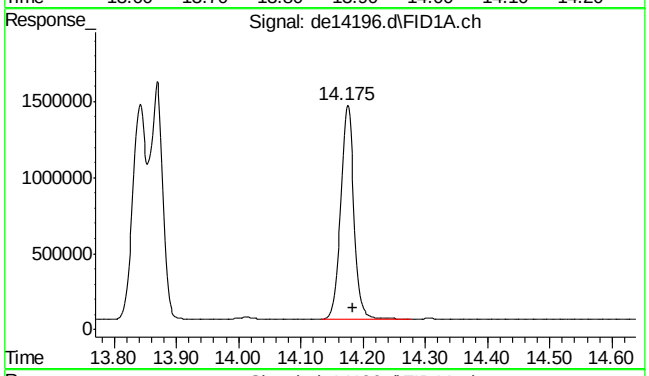
9

SGS ACCUTEST MC45969



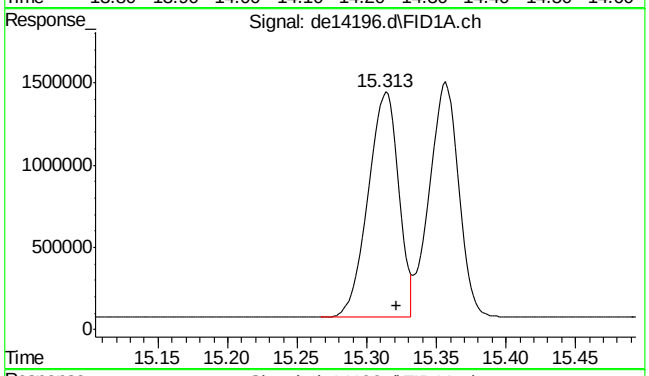
#17 benzo(k)fluoranthene

R.T.: 13.868 min
Delta R.T.: -0.010 min
Response: 2237435
Conc: 23.68 µg/ml



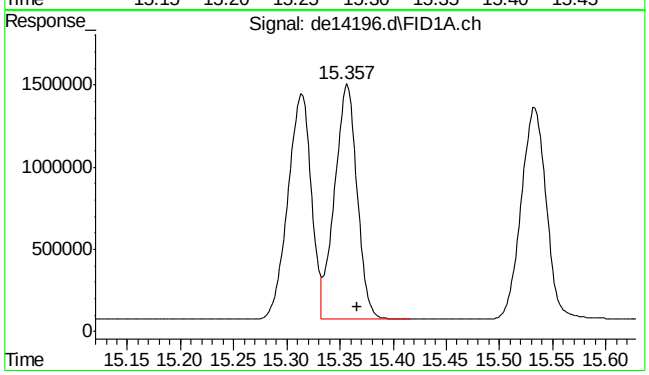
#18 benzo(a)pyrene

R.T.: 14.175 min
Delta R.T.: -0.008 min
Response: 2060271
Conc: 22.29 µg/ml



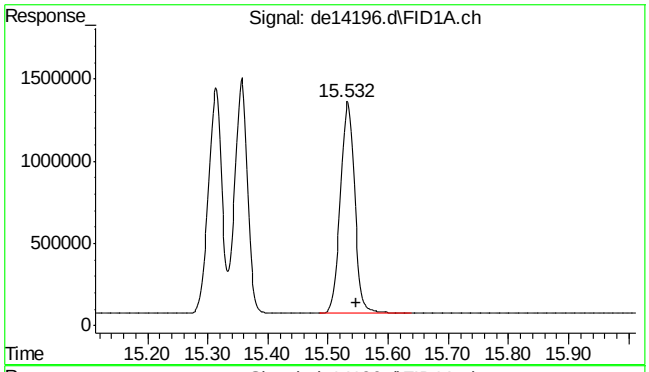
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.313 min
Delta R.T.: -0.008 min
Response: 2095027
Conc: 22.13 µg/ml



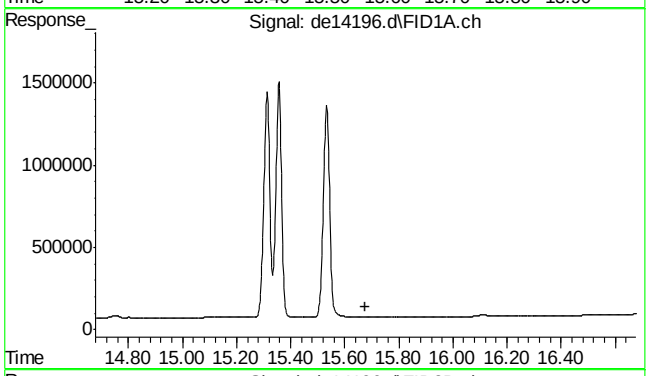
#20 dibenzo(ah)anthracene

R.T.: 15.357 min
Delta R.T.: -0.010 min
Response: 2087558
Conc: 22.84 µg/ml



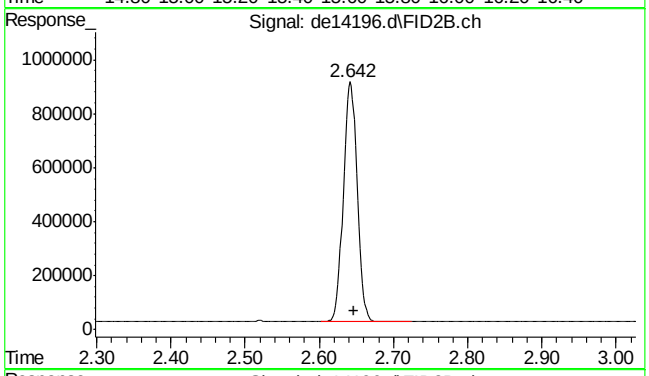
#21 benzo(ghi)perylene

R.T.: 15.532 min
Delta R.T.: -0.015 min
Response: 2118287
Conc: 22.99 µg/ml



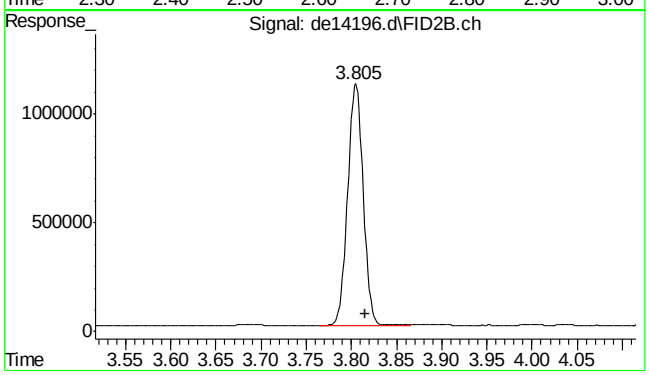
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1155102
Conc: 15.64 µg/ml m



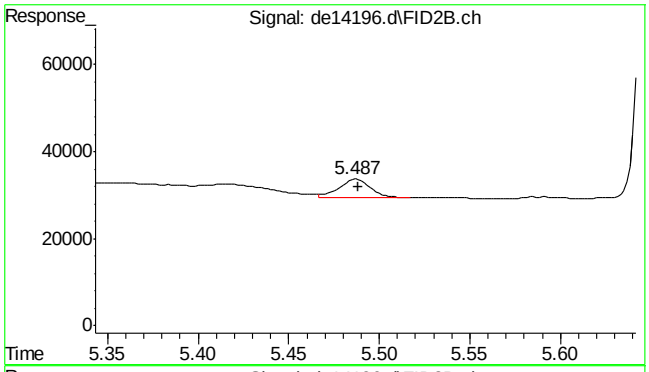
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1336197
Conc: 18.09 µg/ml

9.3.1

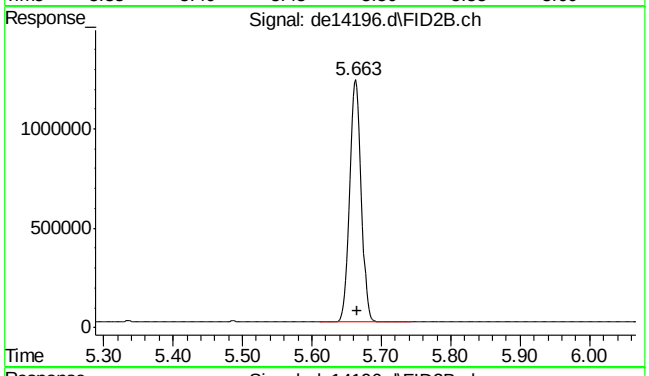
9

SGS ACCUTEST MC45969



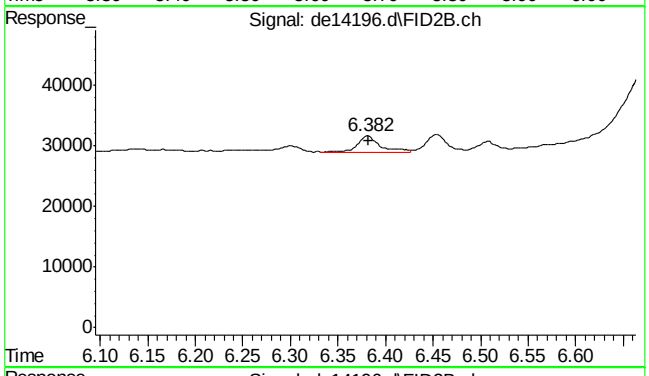
#27 naphthalene #2

R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 5099
Conc: 0.06 µg/ml



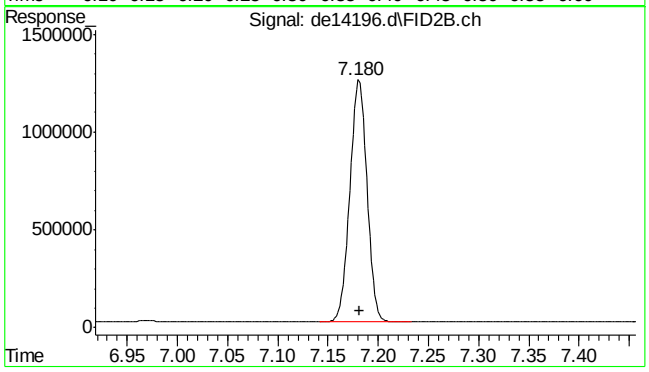
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.002 min
Response: 1414099
Conc: 19.14 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4358
Conc: 0.05 µg/ml



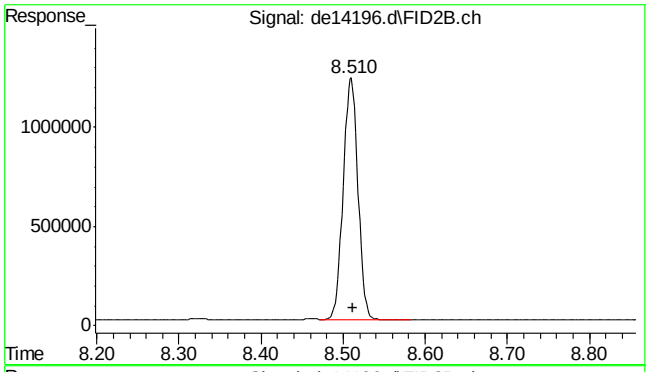
#30 c-14

R.T.: 7.180 min
Delta R.T.: -0.002 min
Response: 1464064
Conc: 19.82 µg/ml

9.3.1

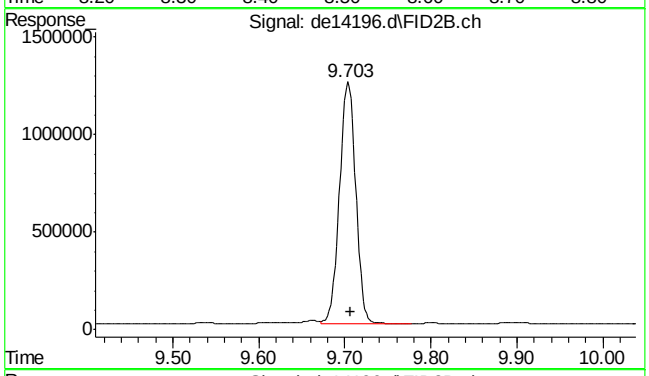
9

SGS ACCUTEST MC45969



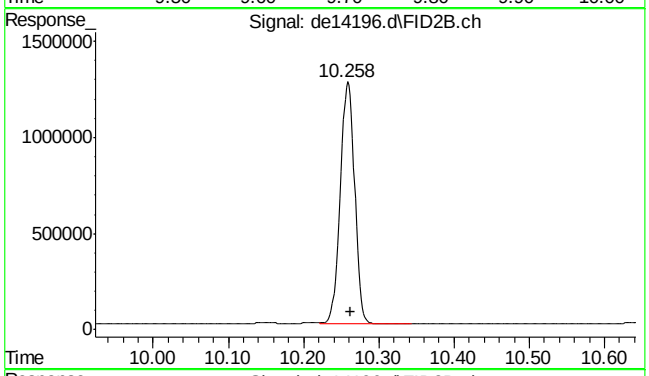
#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.002 min
Response: 1515748
Conc: 20.52 µg/ml



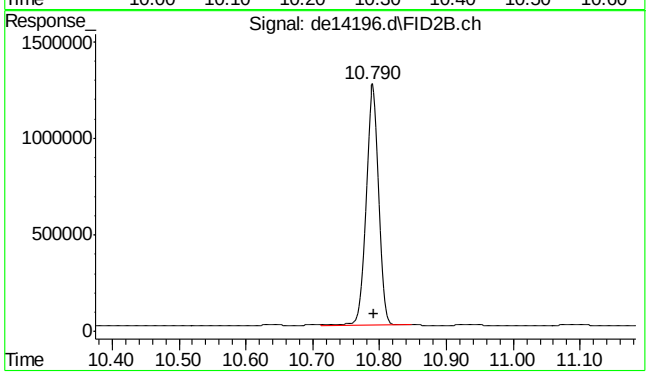
#32 c-18

R.T.: 9.703 min
Delta R.T.: -0.003 min
Response: 1624404
Conc: 21.99 µg/ml



#33 c-19

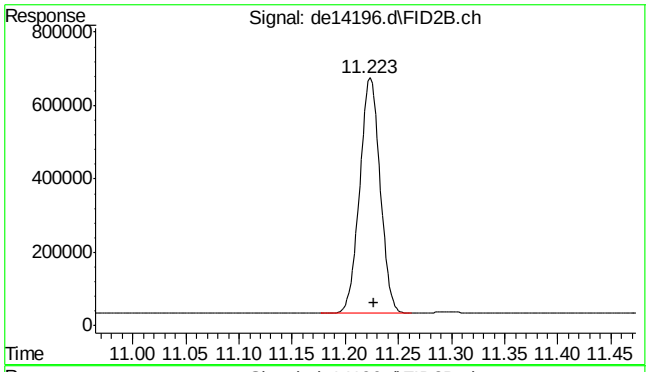
R.T.: 10.258 min
Delta R.T.: -0.003 min
Response: 1661417
Conc: 24.87 µg/ml



#34 c-20

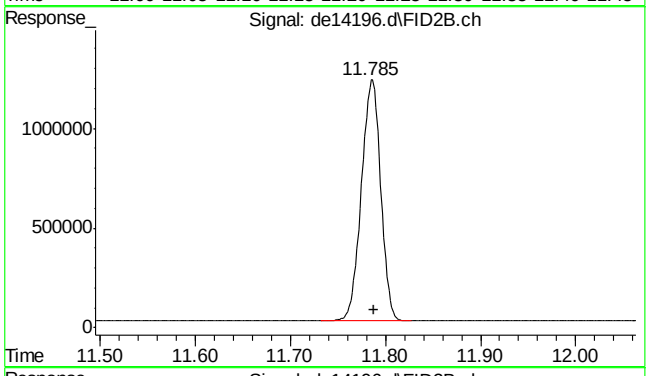
R.T.: 10.790 min
Delta R.T.: -0.002 min
Response: 1702083
Conc: 25.48 µg/ml

SGS ACCUTEST MC45969



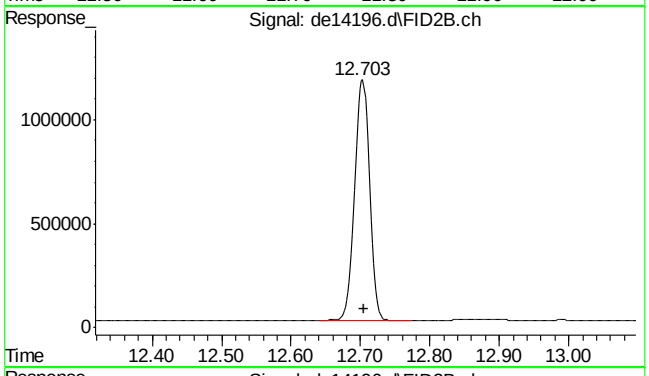
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 860855
Conc: 15.22 µg/ml



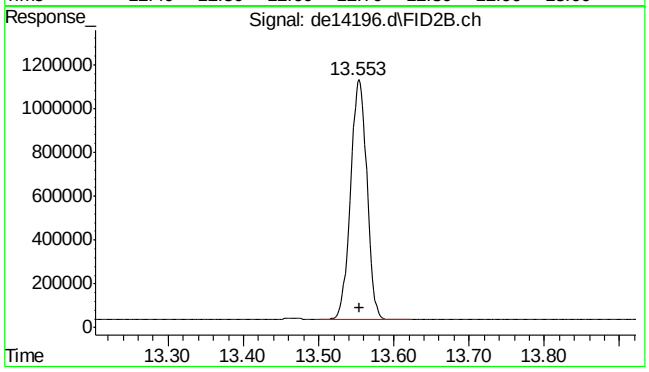
#36 c-22

R.T.: 11.785 min
Delta R.T.: -0.003 min
Response: 1704375
Conc: 25.51 µg/ml



#37 c-24

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 1685034
Conc: 25.22 µg/ml



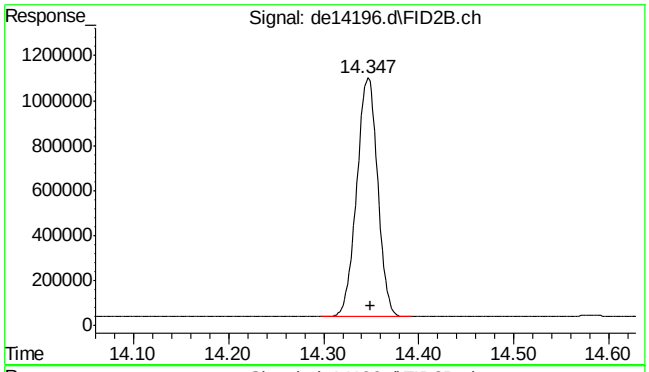
#38 c-26

R.T.: 13.553 min
Delta R.T.: -0.002 min
Response: 1647567
Conc: 24.66 µg/ml

9.3.1

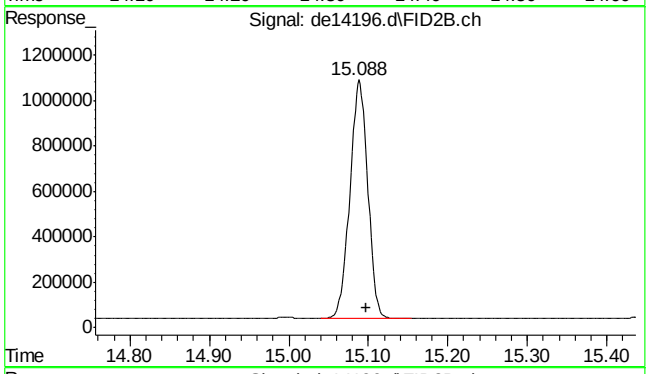
9

SGS ACCUTEST MC45969



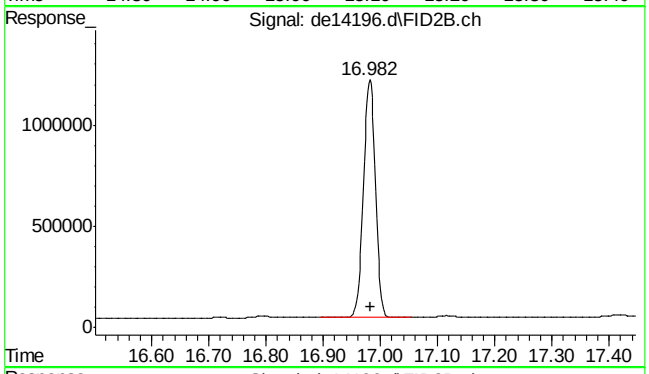
#39 c-28

R.T.: 14.347 min
Delta R.T.: -0.003 min
Response: 1625308
Conc: 24.33 µg/ml



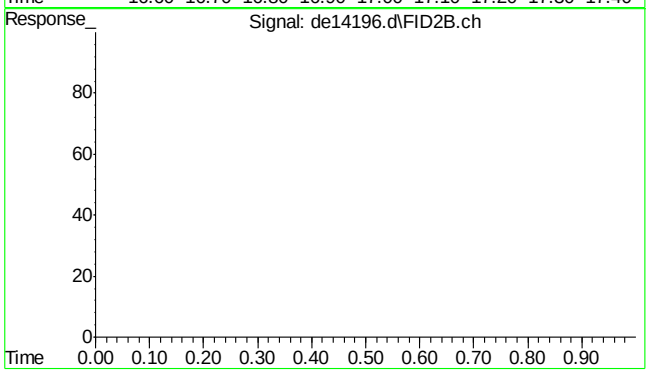
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1632640
Conc: 24.44 µg/ml m



#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1712567
Conc: 25.63 µg/ml m



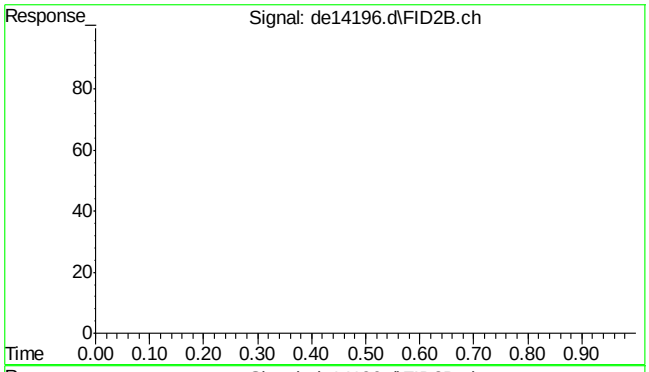
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.1

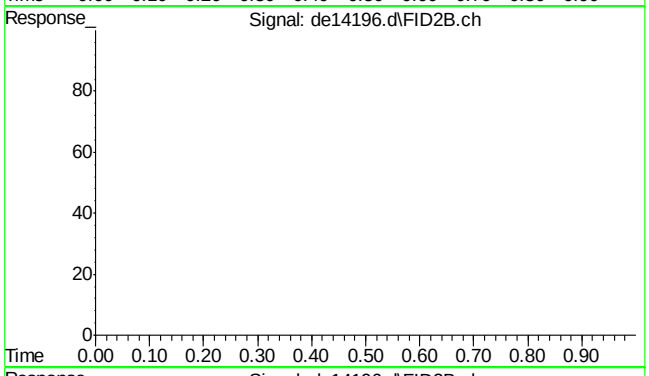
9

SGS ACCUTEST MC45969



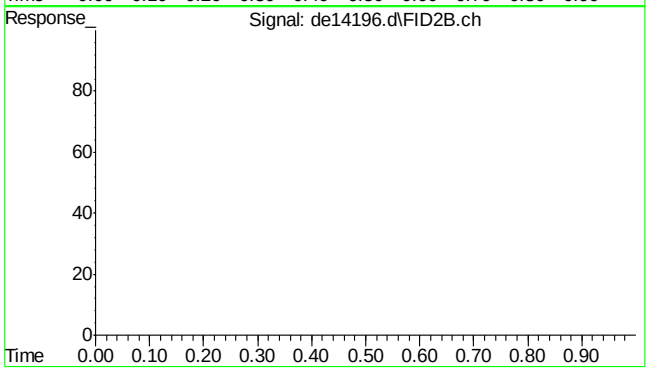
#43 bht

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.

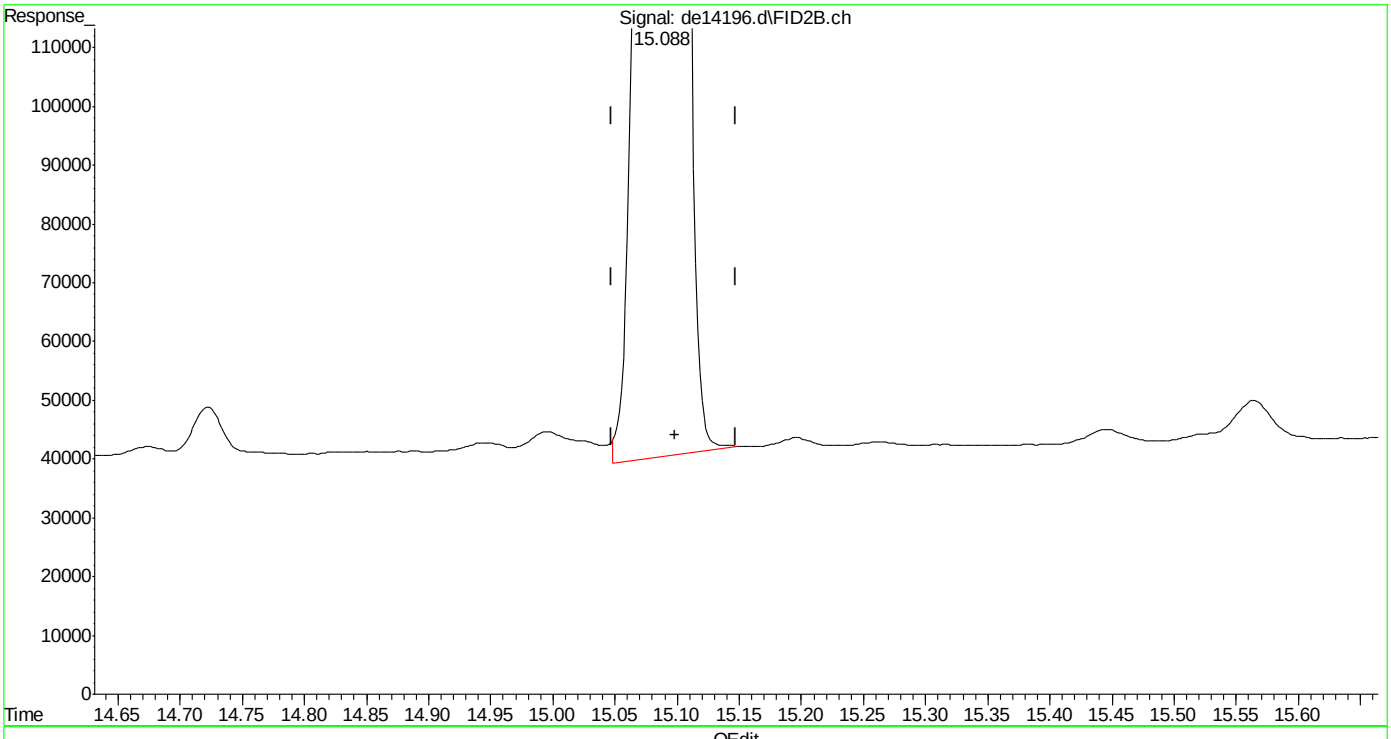
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:46 am
Operator : thomasa
Sample : op47537-bs
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:07:57 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 24.458 µg/ml
response 1633964

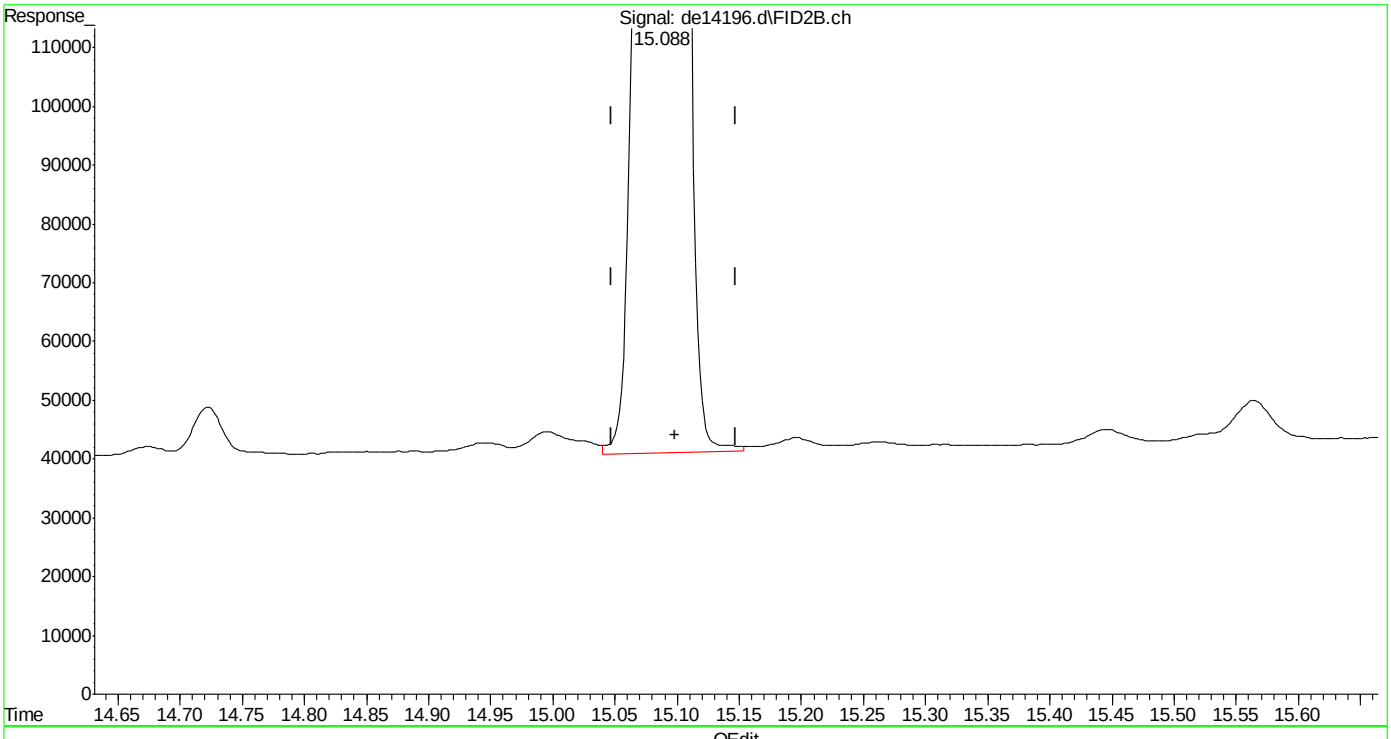
(+) = Expected Retention Time
EPH160521W.M Mon May 23 07:54:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:46 am
Operator : thomasa
Sample : op47537-bs
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:07:57 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 24.438 µg/ml m
response 1632640

(+) = Expected Retention Time
EPH160521W.M Mon May 23 07:55:04 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 10:14 am
Operator : thomasa
Sample : op47537-bsd
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:56:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.605	1309690	14.200 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 71.00%#
6) s	2-bromonaphthalene	7.330	873803	13.924 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 69.62%#
11) s	o-terphenyl	9.868	1785327	17.430 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 87.15%#
35) s	1-chlorooctadecane	11.222	870365	15.384 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 76.92%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.203	38591033	392.966 µg/ml
2)	naphthalene	5.152	1351048	13.099 µg/ml
3)	2-methylnaphthalene	6.052	1409613	13.755 µg/ml
5)	acenaphthylene	7.162	1514385	15.053 µg/ml
7)	acenaphthene	7.403	1749084	16.920 µg/ml
8)	fluorene	8.047	1701955	16.757 µg/ml
9)	phenanthrene	9.227	1804906	17.736 µg/ml
10)	anthracene	9.283	1970975	20.318 µg/ml
12)	fluoranthene	10.728	2132987	21.342 µg/ml
13)	pyrene	10.985	2169776	21.385 µg/ml
14)	benzo(a)anthracene	12.547	2333872	24.141 µg/ml
15)	chrysene	12.592	2342634	24.066 µg/ml
16)	benzo(B)fluoranthene	13.843	2517810	25.432 µg/ml
17)	benzo(k)fluoranthene	13.870	2355419	24.924 µg/ml
18)	benzo(a)pyrene	14.175	2384255	25.794 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.313	2435072	25.725 µg/ml
20)	dibenzo(ah)anthracene	15.358	2328076	25.472 µg/ml
21)	benzo(ghi)perylene	15.537	2407003	26.128 µg/ml
25) h	c-9	2.647	1113744	15.077 µg/mlm
26) h	c-10	3.815	1289004	17.449 µg/ml
27)	naphthalene #2	5.487	5434	0.068 µg/ml
28)	c-12	5.663	1382317	18.712 µg/ml
29)	2-methylnaphthalene #2	6.382	4232	0.053 µg/ml
30)	c-14	7.182	1407589	19.054 µg/ml
31)	c-16	8.510	1449144	19.617 µg/ml
32)	c-18	9.703	1539525	20.840 µg/ml
33)	c-19	10.260	1562967	23.395 µg/ml
34)	c-20	10.790	1596046	23.891 µg/ml
36)	c-22	11.785	1604146	24.012 µg/ml
37)	c-24	12.702	1576283	23.595 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 10:14 am
Operator : thomasa
Sample : op47537-bsd
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:56:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.553	1539617	23.046	µg/ml
39)		c-28	14.345	1518058	22.723	µg/ml
40)	h	c-30	15.098	1514672	22.673	µg/mlm
41)	h	c-36	16.983	1555137	23.278	µg/mlm

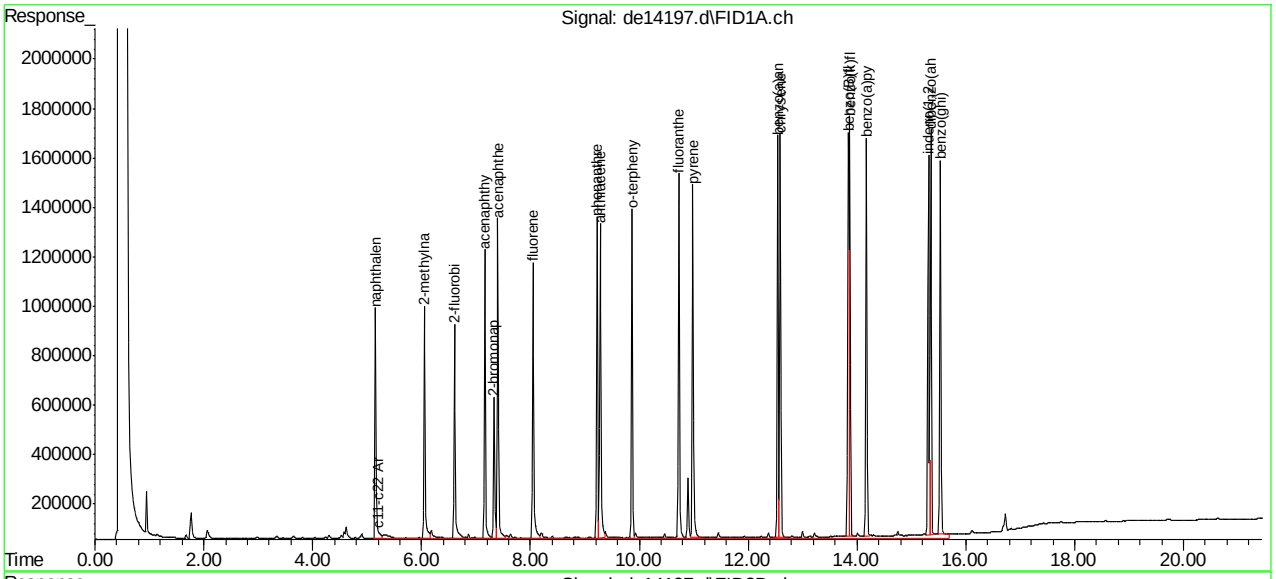
(f)=RT Delta > 1/2 Window (m)=manual int.

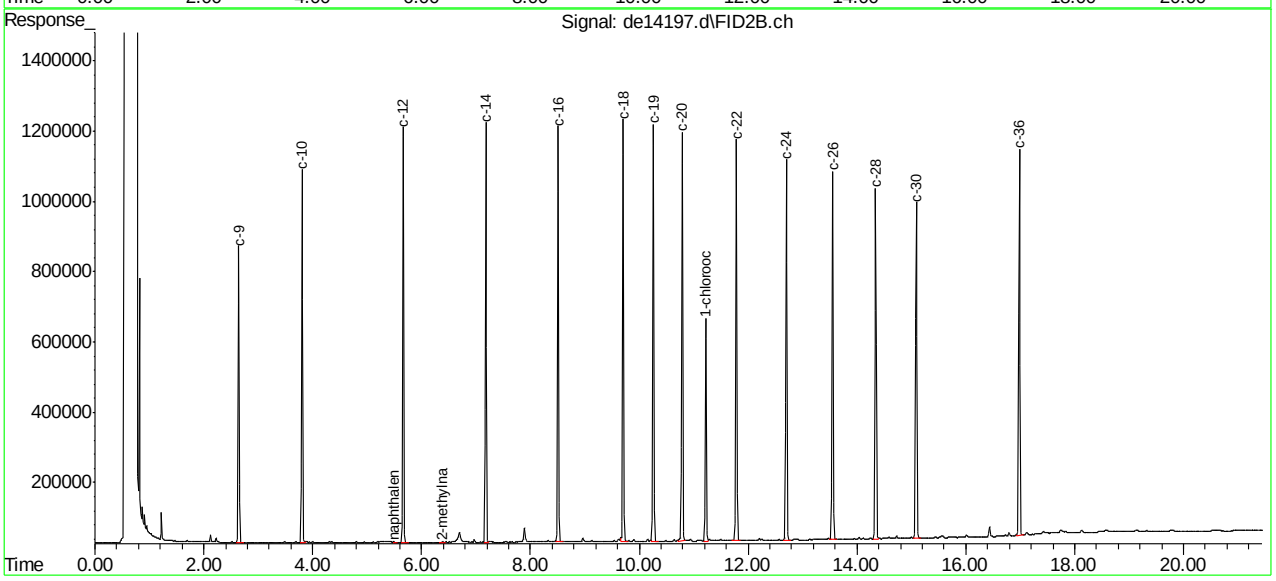
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 10:14 am
Operator : thomasa
Sample : op47537-bsd
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:56:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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





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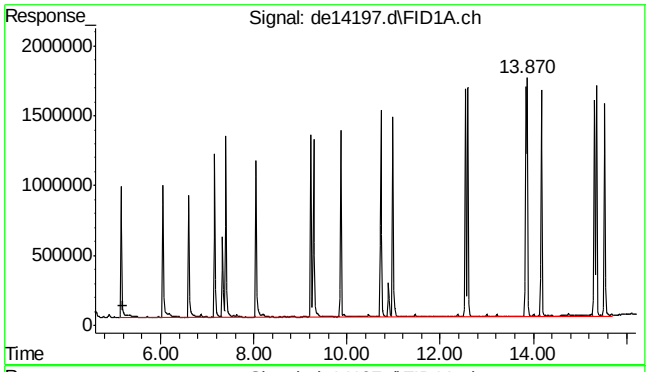
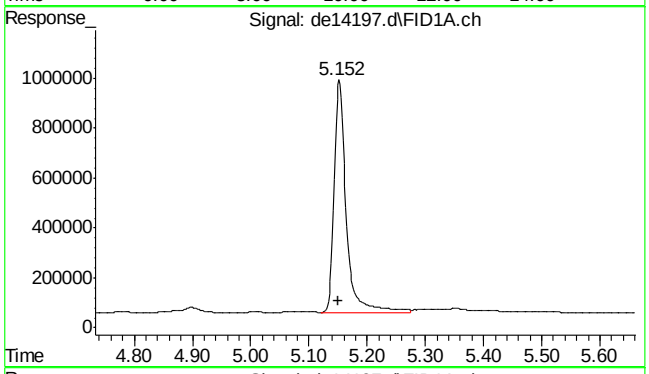


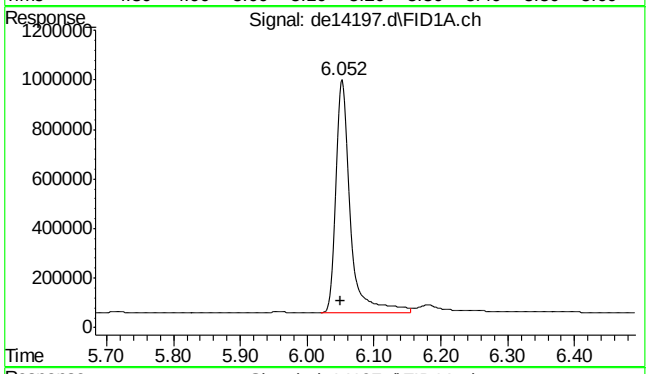
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 38591033
Conc: 392.97 µg/ml



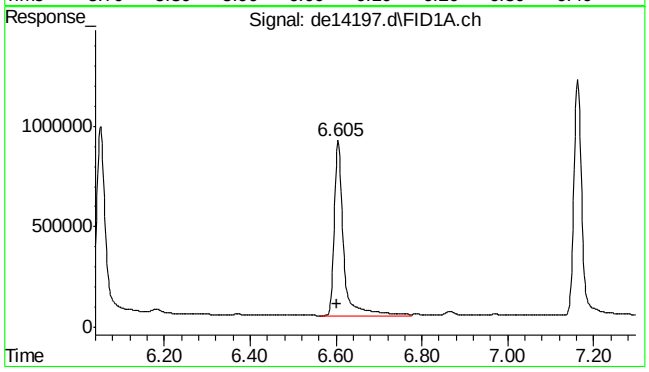
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.002 min
Response: 1351048
Conc: 13.10 µg/ml



#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.002 min
Response: 1409613
Conc: 13.75 µg/ml



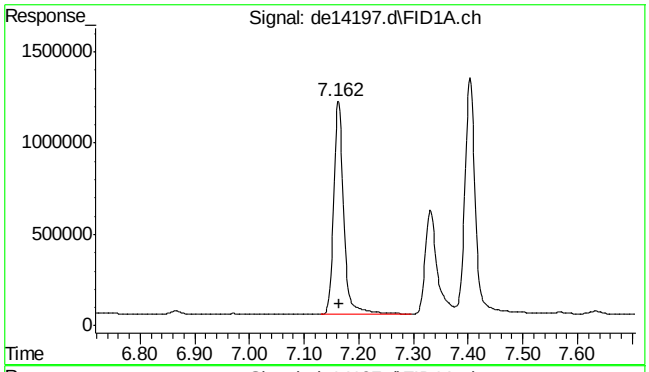
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1309690
Conc: 14.20 µg/ml

9.3.2

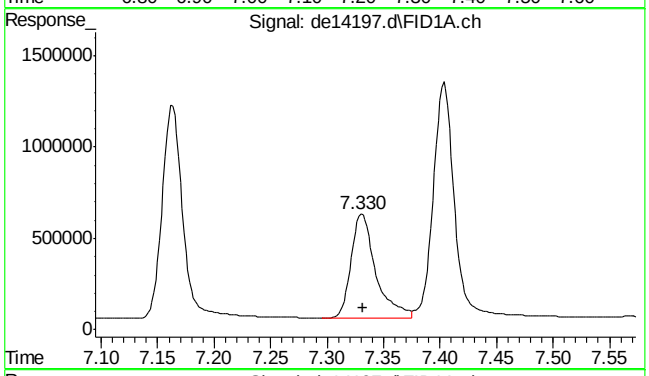
9

SGS ACCUTEST MC45969



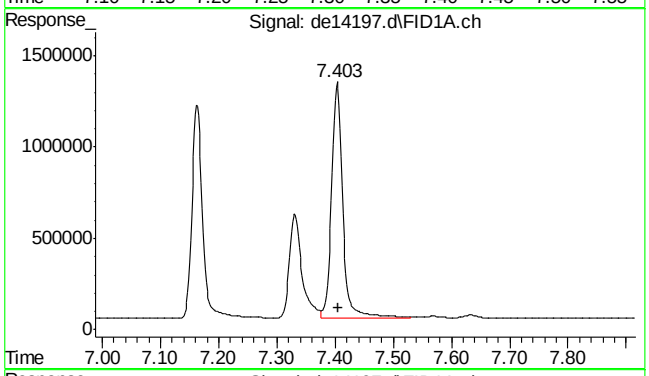
#5 acenaphthylene

R.T.: 7.162 min
Delta R.T.: -0.002 min
Response: 1514385
Conc: 15.05 µg/ml



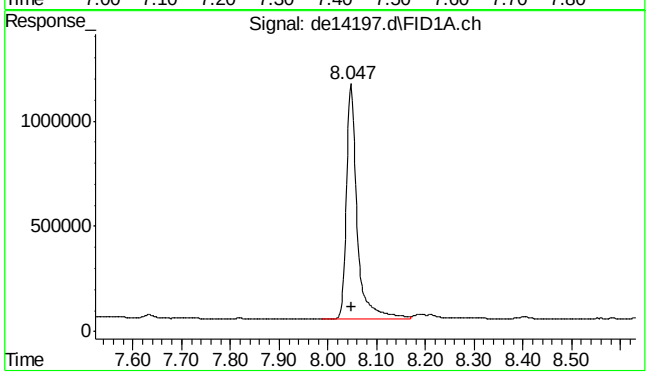
#6 2-bromonaphthalene

R.T.: 7.330 min
Delta R.T.: -0.002 min
Response: 873803
Conc: 13.92 µg/ml



#7 acenaphthene

R.T.: 7.403 min
Delta R.T.: -0.002 min
Response: 1749084
Conc: 16.92 µg/ml



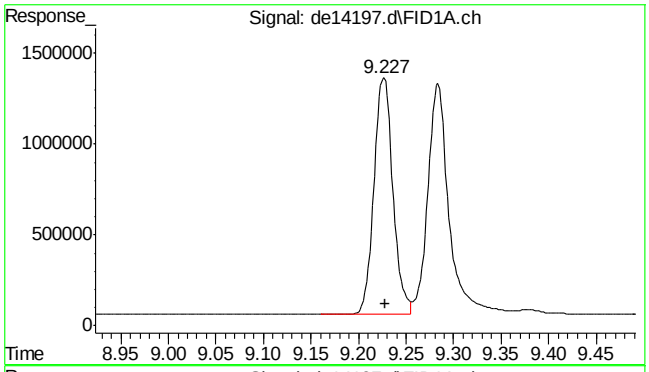
#8 fluorene

R.T.: 8.047 min
Delta R.T.: -0.002 min
Response: 1701955
Conc: 16.76 µg/ml

9.3.2

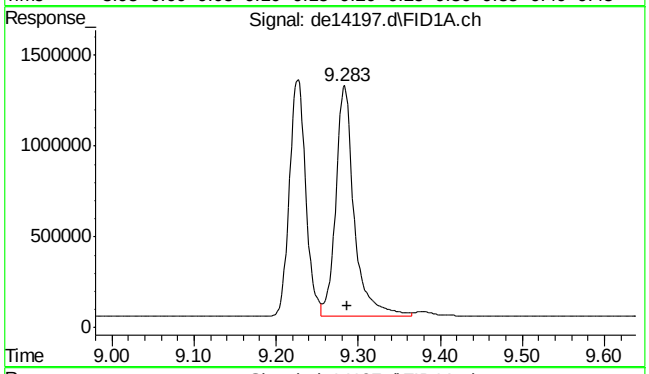
9

SGS ACCUTEST MC45969



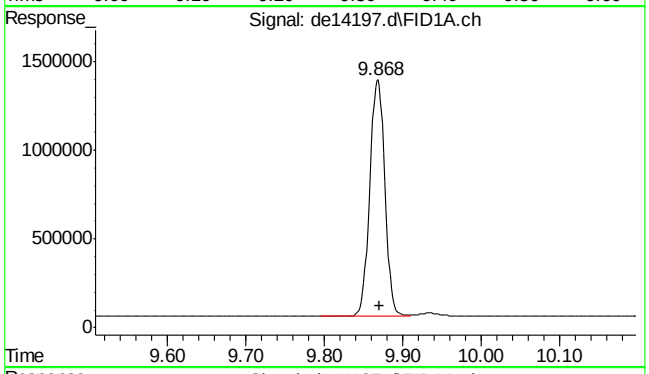
#9 phenanthrene

R.T.: 9.227 min
Delta R.T.: -0.002 min
Response: 1804906
Conc: 17.74 µg/ml



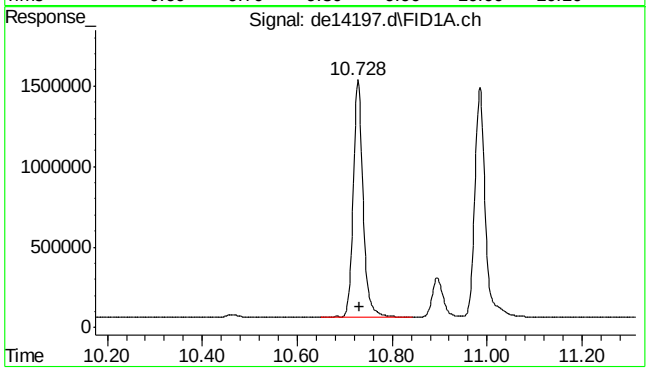
#10 anthracene

R.T.: 9.283 min
Delta R.T.: -0.003 min
Response: 1970975
Conc: 20.32 µg/ml



#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.002 min
Response: 1785327
Conc: 17.43 µg/ml



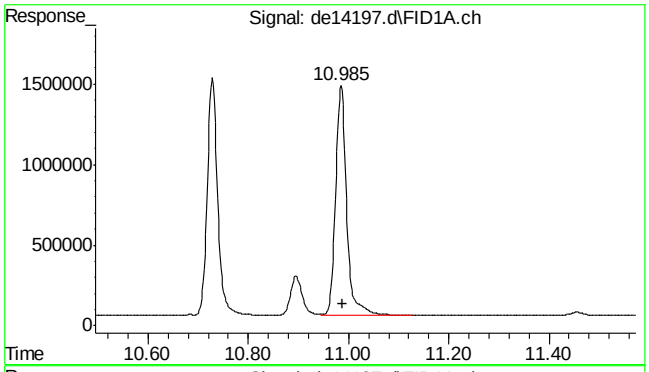
#12 fluoranthene

R.T.: 10.728 min
Delta R.T.: -0.003 min
Response: 2132987
Conc: 21.34 µg/ml

9.3.2

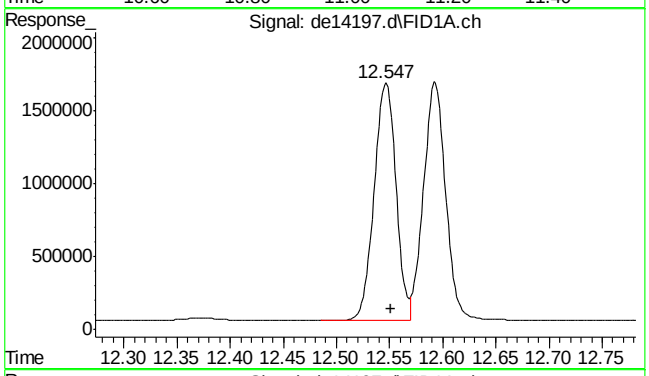
9

SGS ACCUTEST MC45969



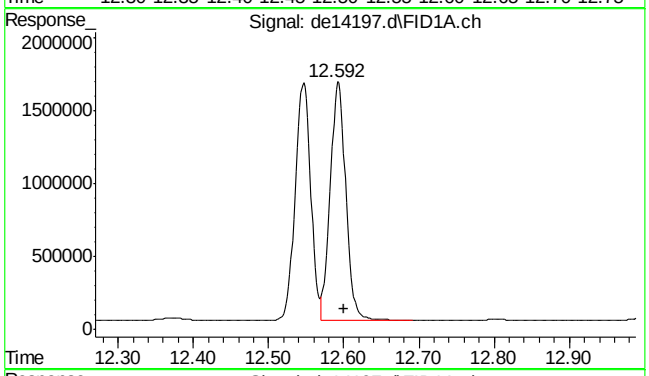
#13 pyrene

R.T.: 10.985 min
Delta R.T.: -0.003 min
Response: 2169776
Conc: 21.39 µg/ml



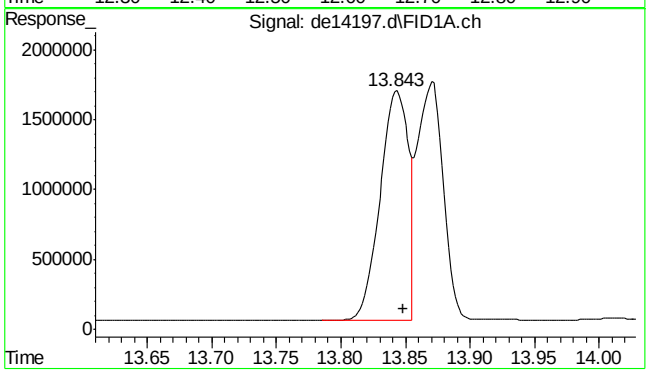
#14 benzo(a)anthracene

R.T.: 12.547 min
Delta R.T.: -0.005 min
Response: 2333872
Conc: 24.14 µg/ml



#15 chrysene

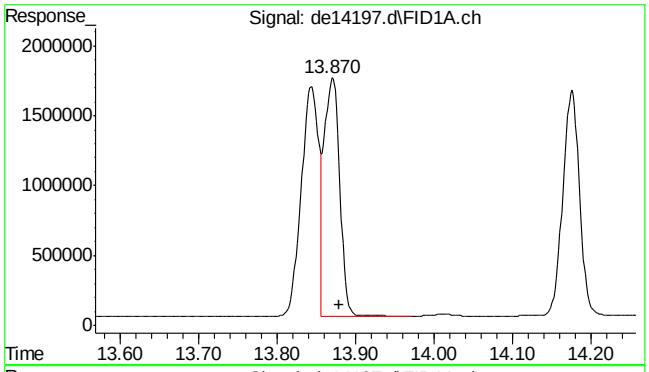
R.T.: 12.592 min
Delta R.T.: -0.008 min
Response: 2342634
Conc: 24.07 µg/ml



#16 benzo(B)fluoranthene

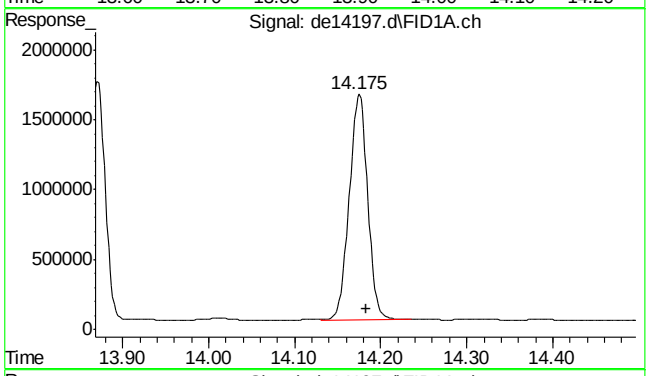
R.T.: 13.843 min
Delta R.T.: -0.005 min
Response: 2517810
Conc: 25.43 µg/ml

SGS ACCUTEST MC45969



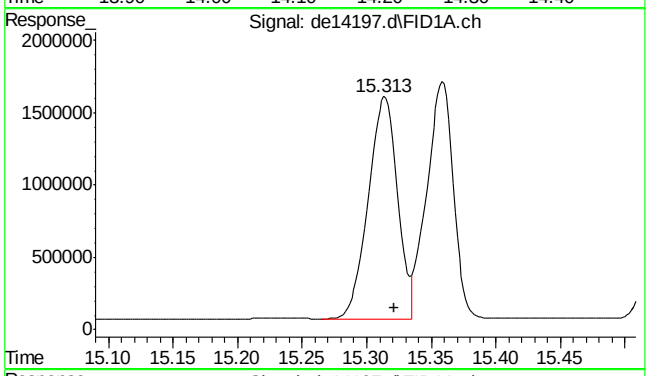
#17 benzo(k)fluoranthene

R.T.: 13.870 min
Delta R.T.: -0.008 min
Response: 2355419
Conc: 24.92 µg/ml



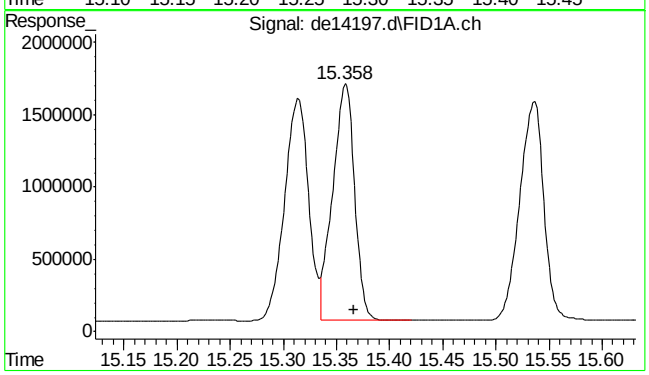
#18 benzo(a)pyrene

R.T.: 14.175 min
Delta R.T.: -0.008 min
Response: 2384255
Conc: 25.79 µg/ml



#19 indeno(1,2,3-cd)pyrene

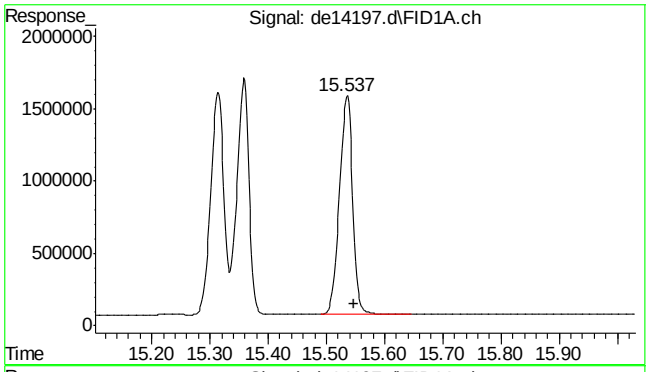
R.T.: 15.313 min
Delta R.T.: -0.008 min
Response: 2435072
Conc: 25.72 µg/ml



#20 dibenzo(ah)anthracene

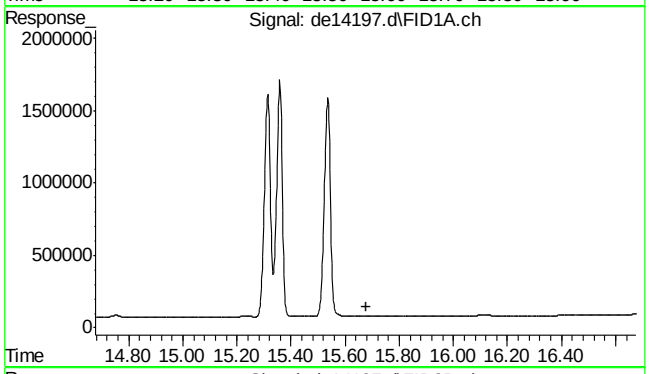
R.T.: 15.358 min
Delta R.T.: -0.008 min
Response: 2328076
Conc: 25.47 µg/ml

SGS ACCUTEST MC45969



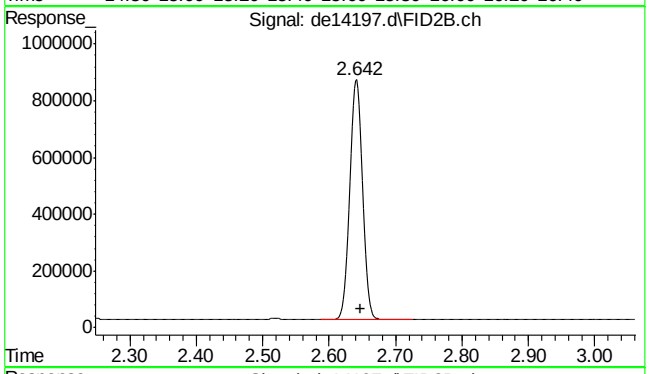
#21 benzo(ghi)perylene

R.T.: 15.537 min
Delta R.T.: -0.010 min
Response: 2407003
Conc: 26.13 µg/ml



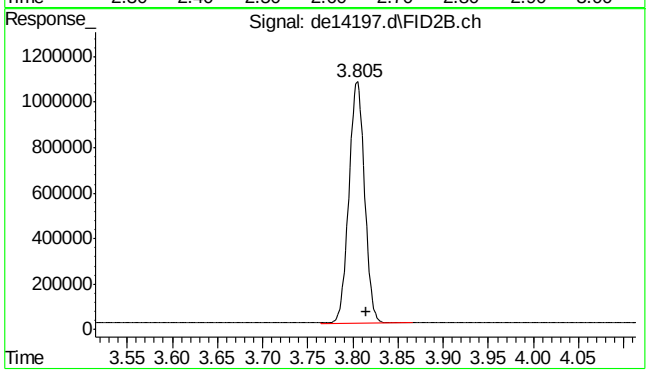
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1113744
Conc: 15.08 µg/ml m



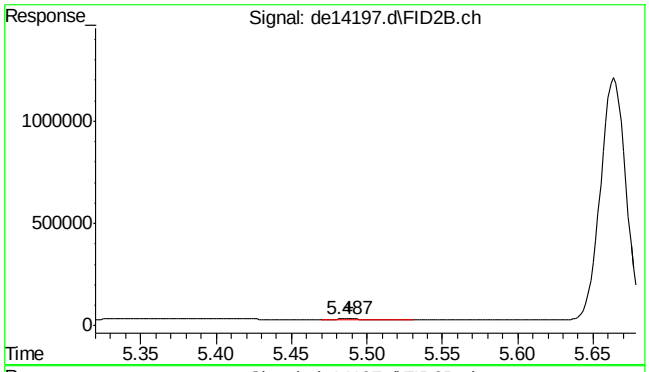
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1289004
Conc: 17.45 µg/ml

9.3.2

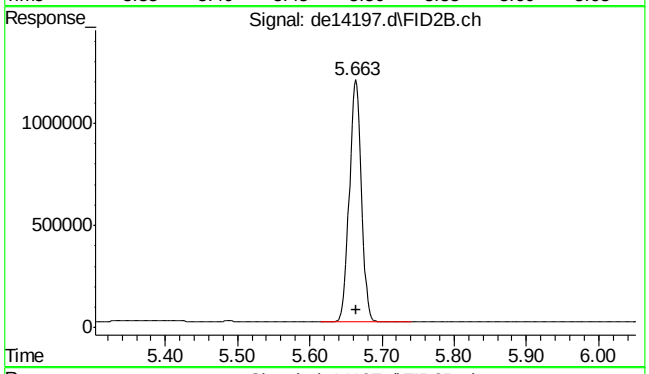
9

SGS ACCUTEST MC45969



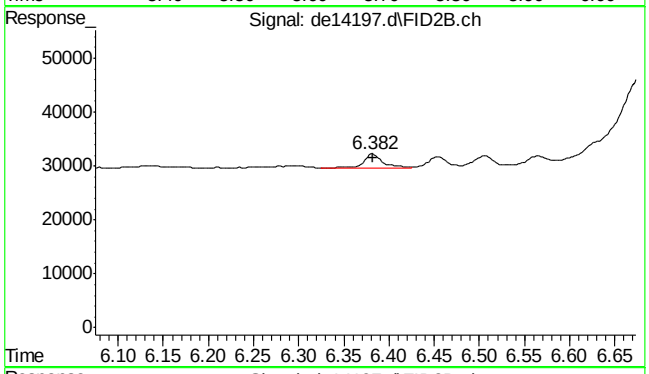
#27 naphthalene #2

R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 5434
Conc: 0.07 µg/ml



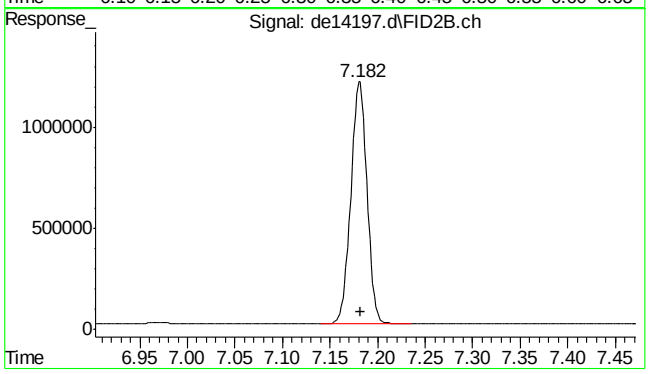
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.002 min
Response: 1382317
Conc: 18.71 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4232
Conc: 0.05 µg/ml



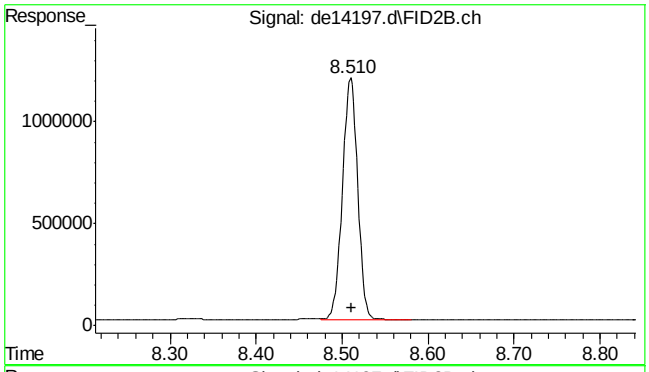
#30 c-14

R.T.: 7.182 min
Delta R.T.: 0.000 min
Response: 1407589
Conc: 19.05 µg/ml

9.3.2

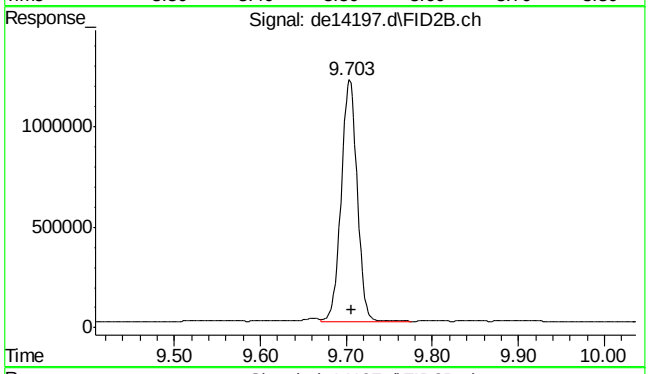
9

SGS ACCUTEST MC45969



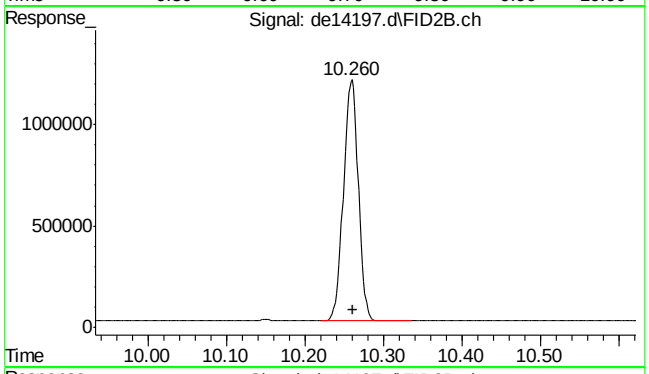
#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.002 min
Response: 1449144
Conc: 19.62 µg/ml



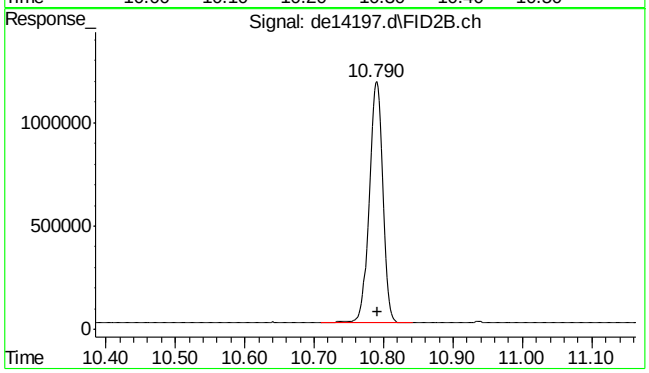
#32 c-18

R.T.: 9.703 min
Delta R.T.: -0.003 min
Response: 1539525
Conc: 20.84 µg/ml



#33 c-19

R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 1562967
Conc: 23.40 µg/ml



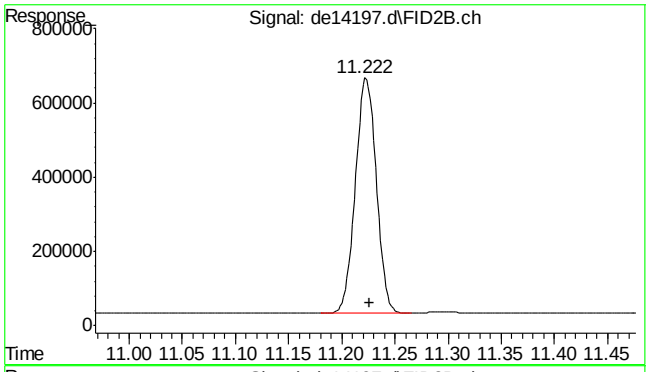
#34 c-20

R.T.: 10.790 min
Delta R.T.: -0.002 min
Response: 1596046
Conc: 23.89 µg/ml

9.3.2

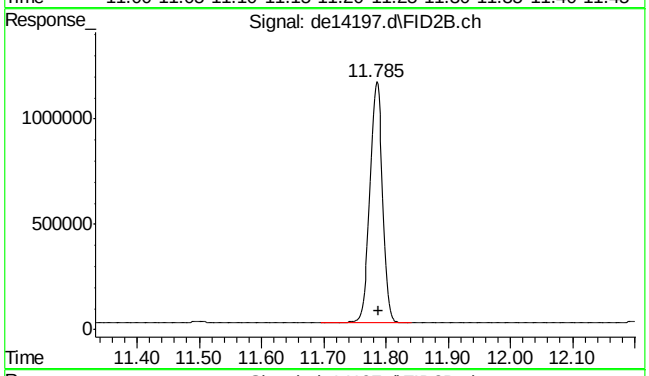
9

SGS ACCUTEST MC45969



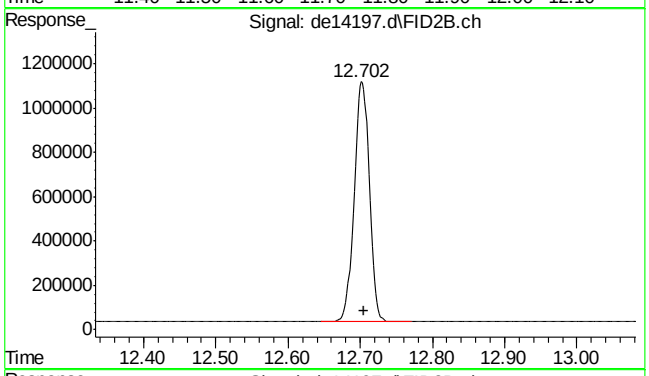
#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.005 min
Response: 870365
Conc: 15.38 µg/ml



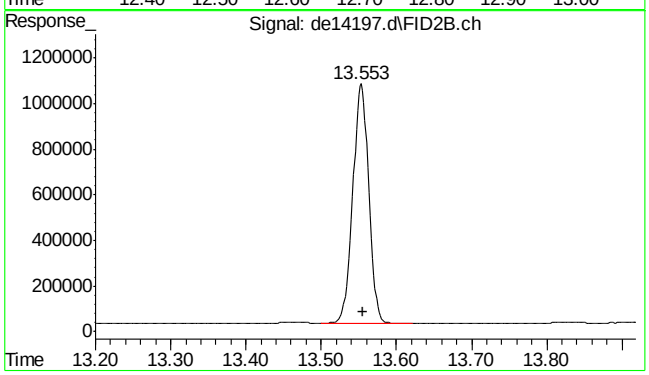
#36 c-22

R.T.: 11.785 min
Delta R.T.: -0.003 min
Response: 1604146
Conc: 24.01 µg/ml



#37 c-24

R.T.: 12.702 min
Delta R.T.: -0.003 min
Response: 1576283
Conc: 23.59 µg/ml



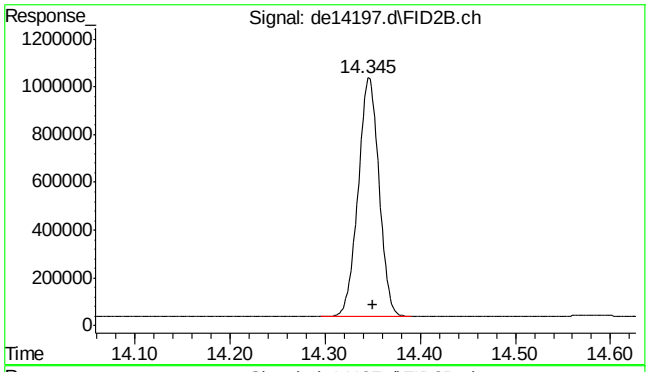
#38 c-26

R.T.: 13.553 min
Delta R.T.: -0.002 min
Response: 1539617
Conc: 23.05 µg/ml

9.3.2

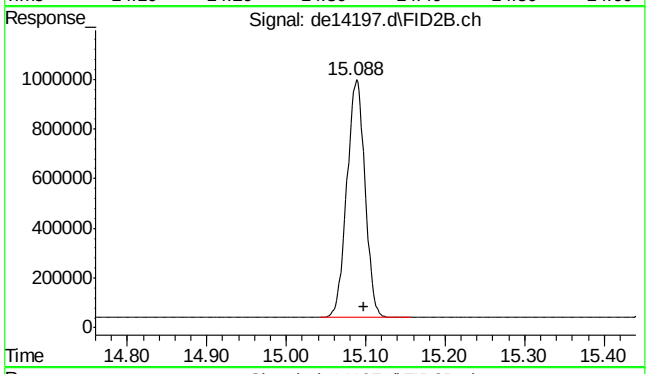
9

SGS ACCUTEST MC45969



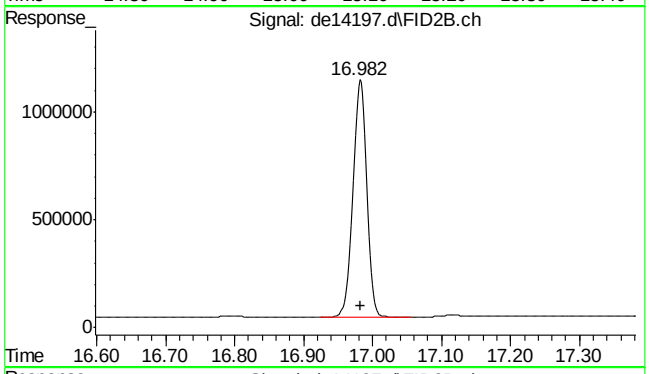
#39 c-28

R.T.: 14.345 min
Delta R.T.: -0.005 min
Response: 1518058
Conc: 22.72 µg/ml



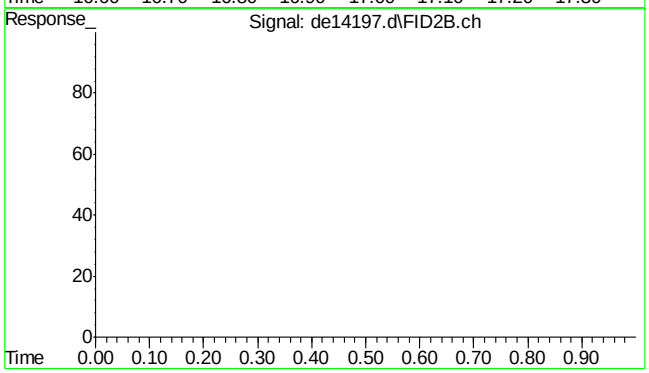
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1514672
Conc: 22.67 µg/ml m



#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1555137
Conc: 23.28 µg/ml m



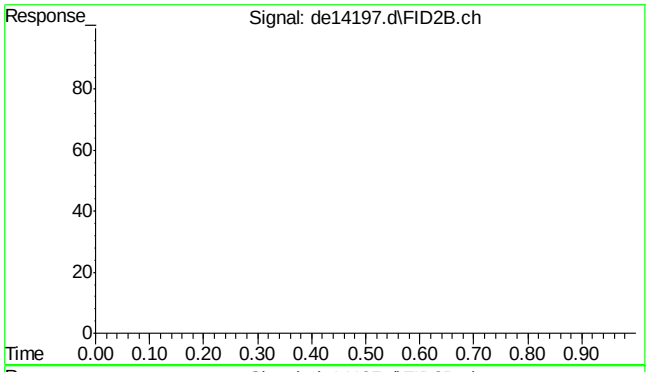
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.2

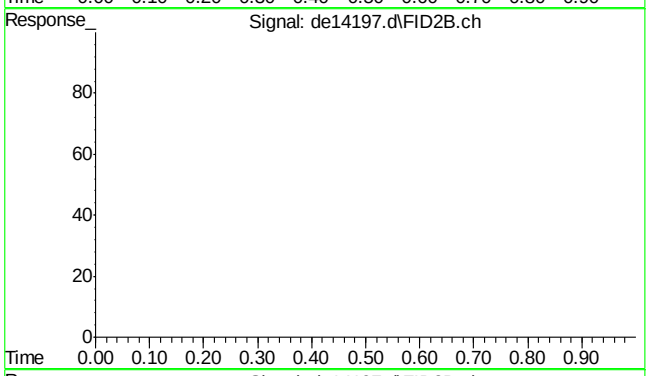
9

SGS ACCUTEST MC45969



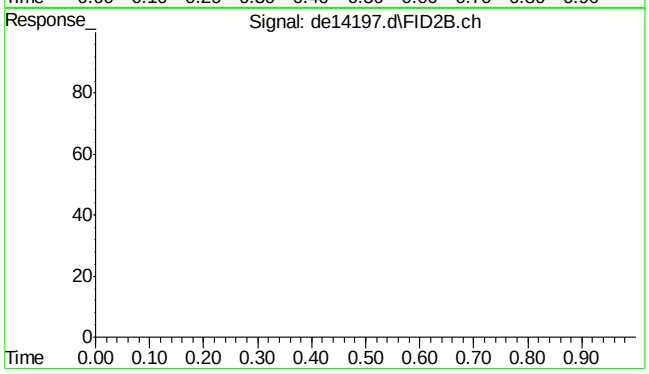
#43 bht

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.

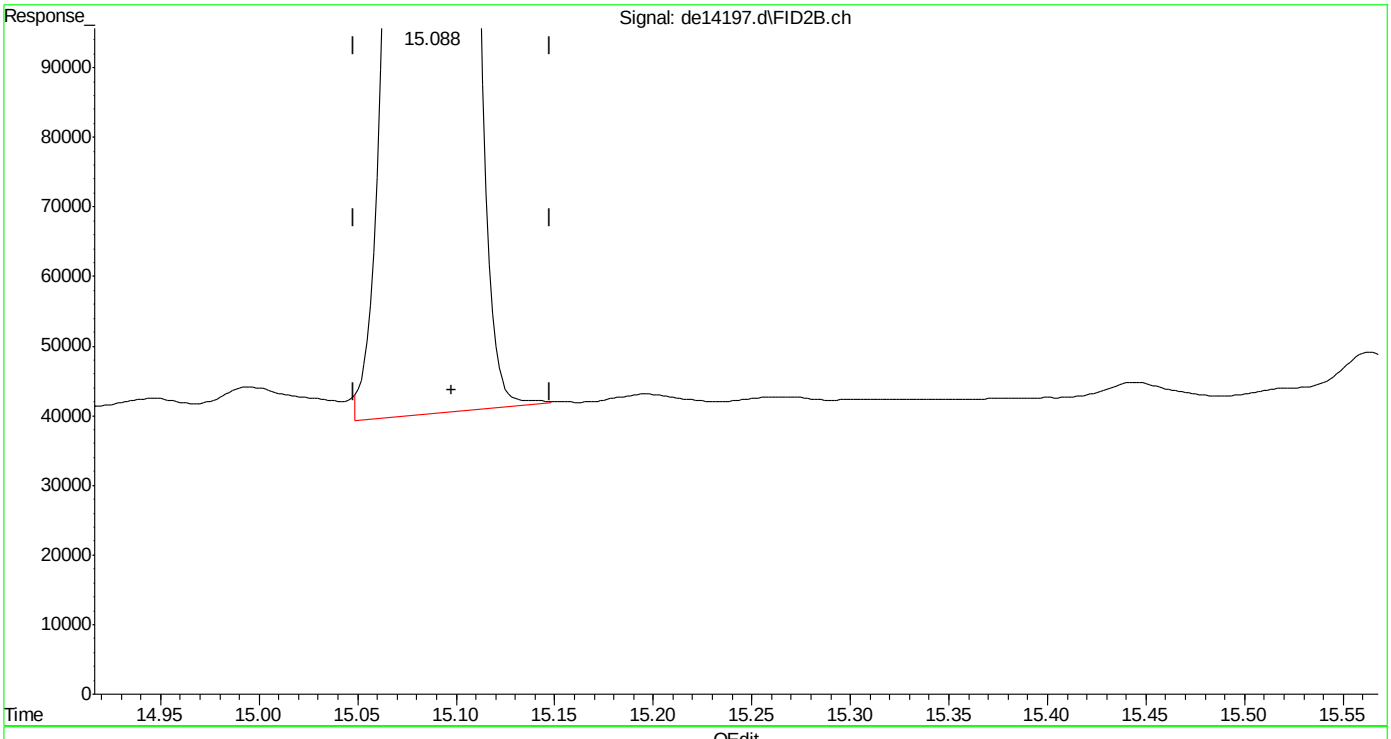
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 10:14 am
Operator : thomasa
Sample : op47537-bsd
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 22.736 µg/ml
response 1518885

(+) = Expected Retention Time
EPH160521W.M Mon May 23 07:56:14 2016

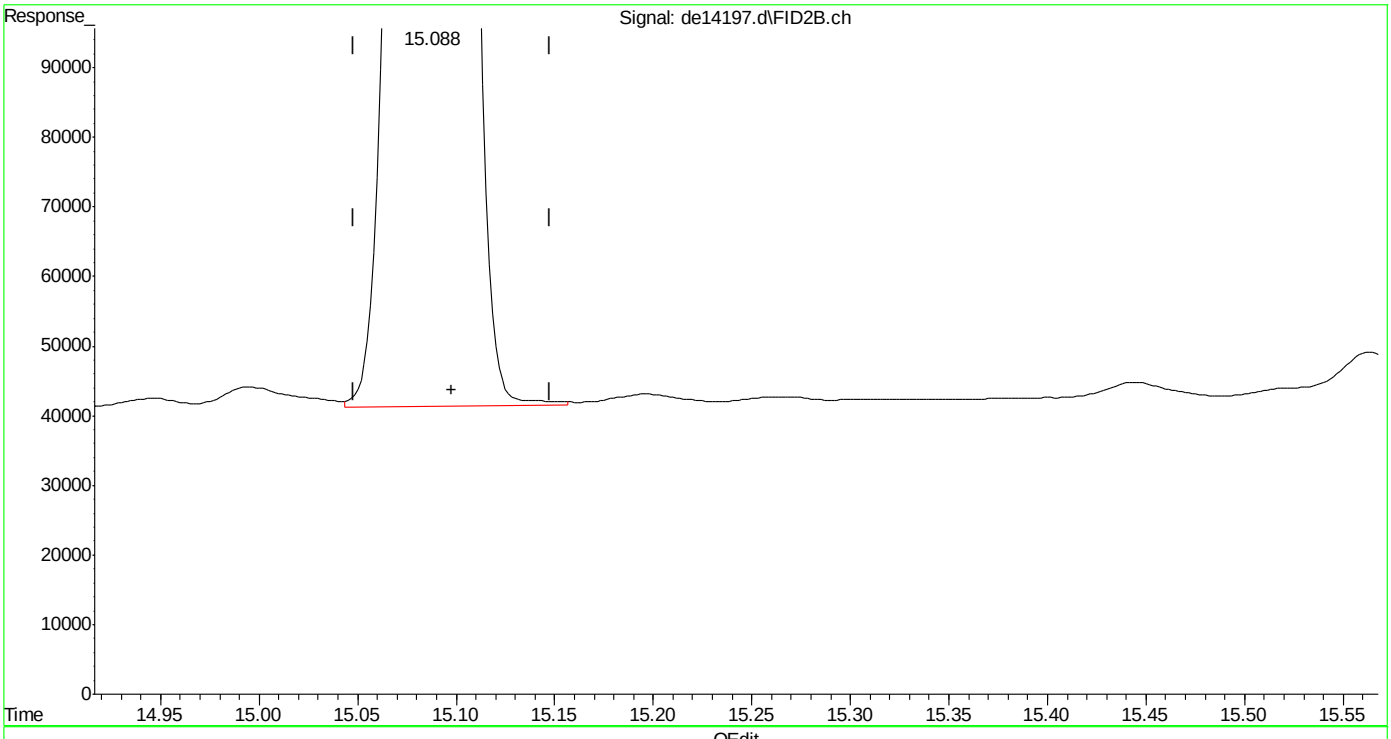
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 10:14 am
Operator : thomasa
Sample : op47537-bsd
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 22.673 µg/ml m
response 1514672

(+) = Expected Retention Time
EPH160521W.M Mon May 23 07:56:18 2016

SGS ACCUTEST MC45969

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

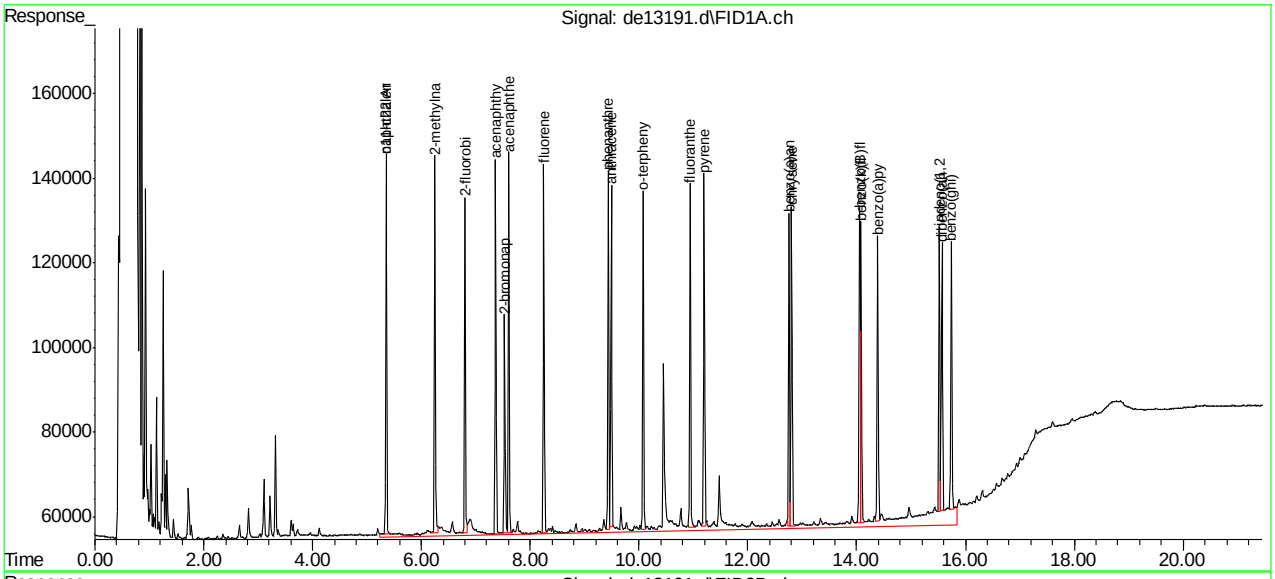
(f)=RT Delta > 1/2 Window (m)=manual int.

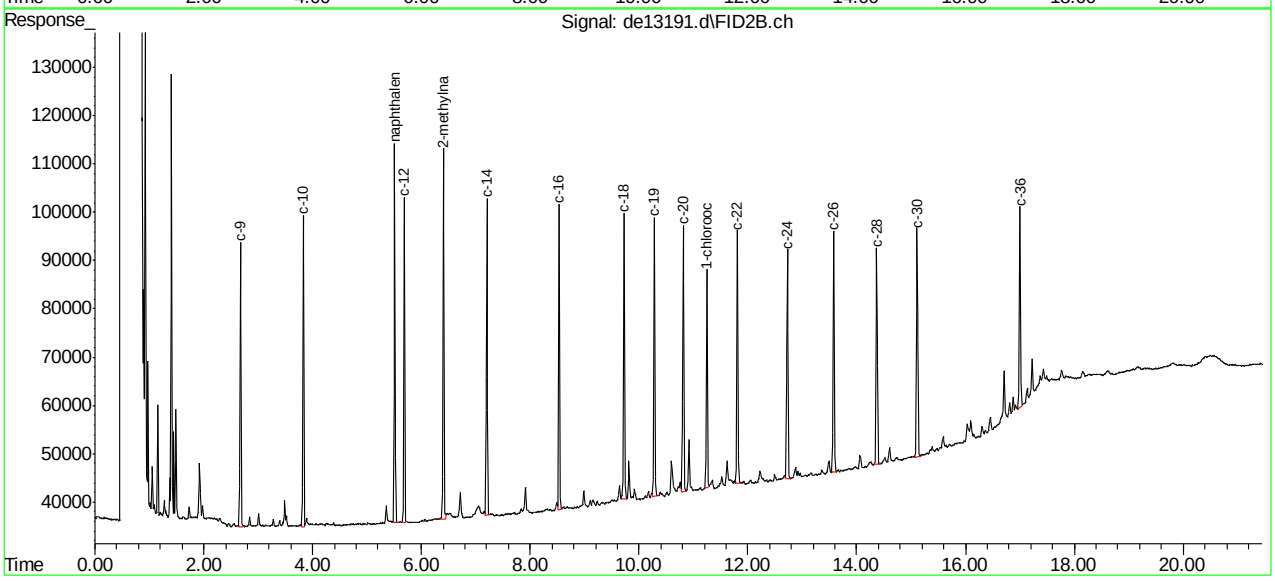
Quantitation Report (QT Reviewed)

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

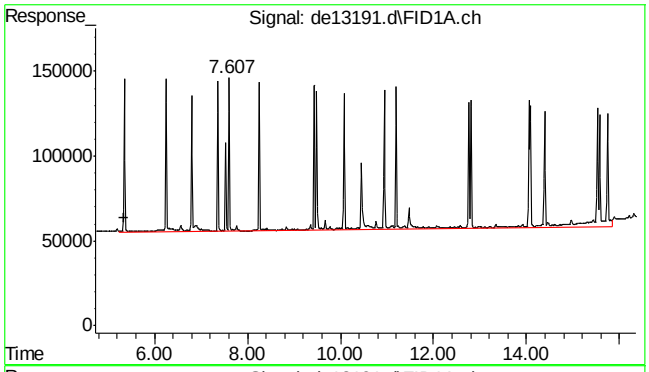
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



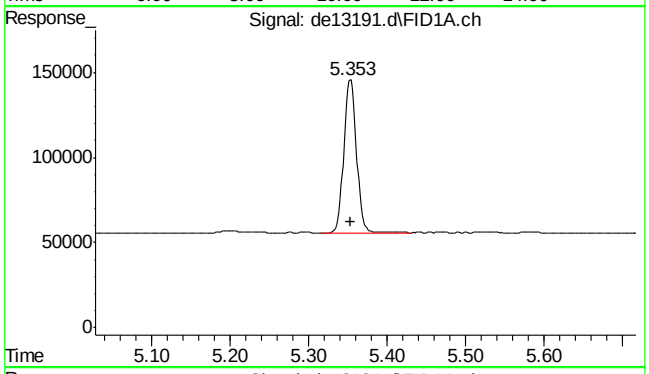


SGS ACCUTEST MC45969



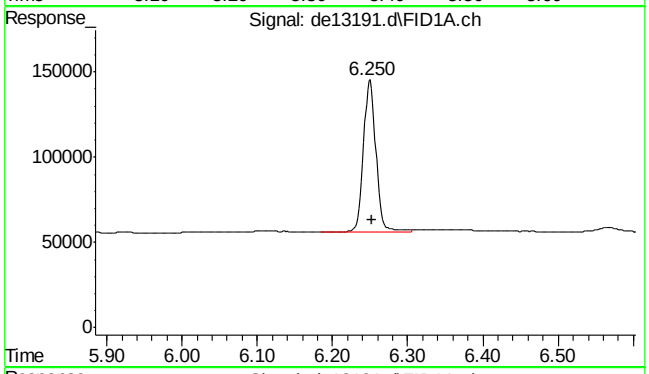
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



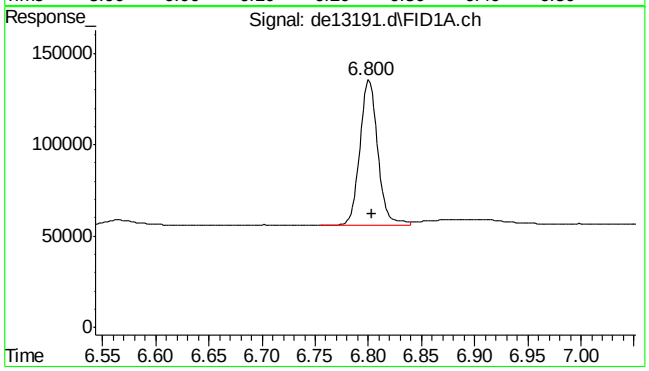
#2 naphthalene

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



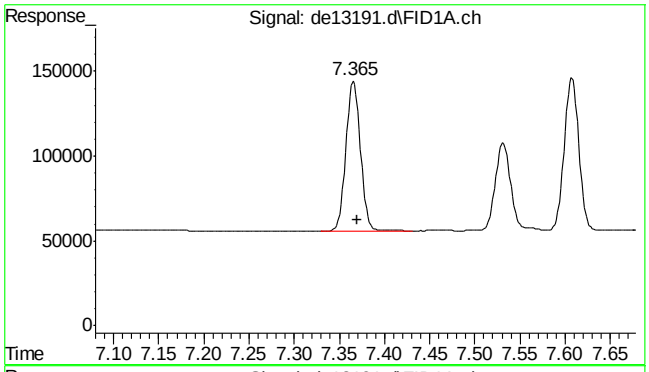
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml

9.4.1

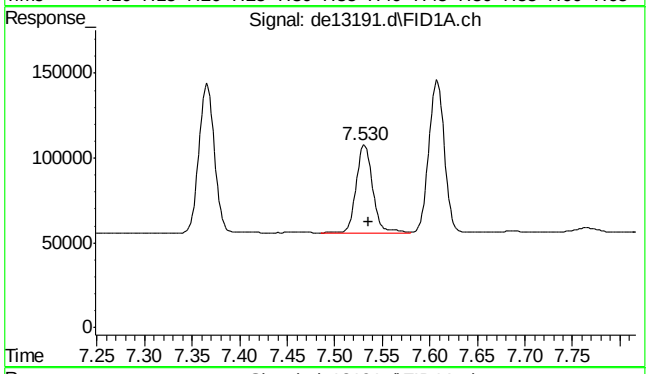
9

SGS ACCUTEST MC45969



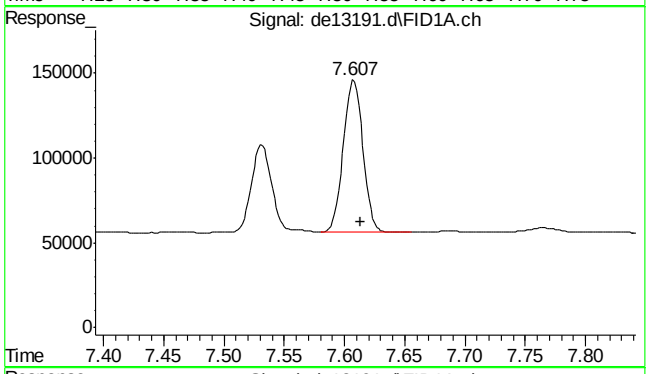
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



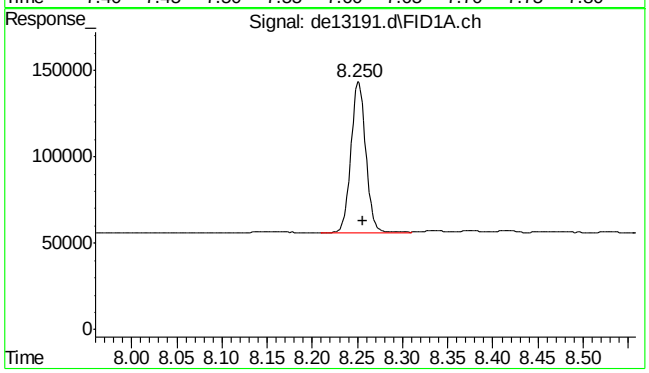
#6 2-bromonaphthalene

R.T.: 7.530 min
Delta R.T.: -0.005 min
Response: 61936
Conc: 0.91 µg/ml



#7 acenaphthene

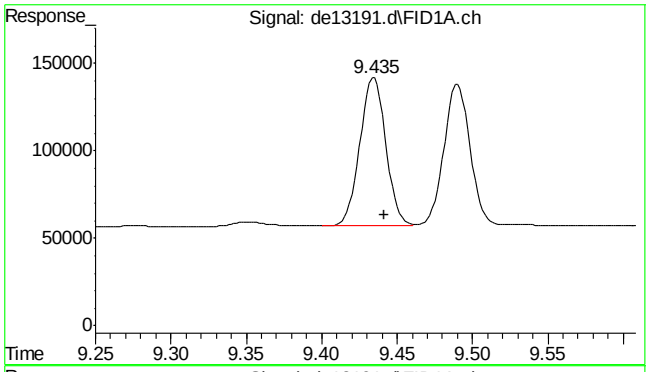
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 101818
Conc: 0.92 µg/ml



#8 fluorene

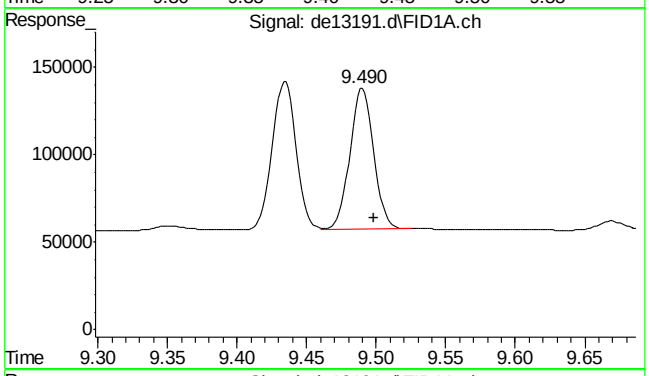
R.T.: 8.250 min
Delta R.T.: -0.007 min
Response: 100695
Conc: 0.92 µg/ml

SGS ACCUTEST MC45969



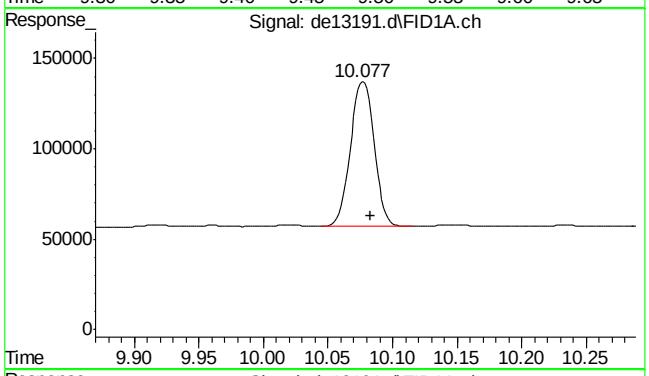
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



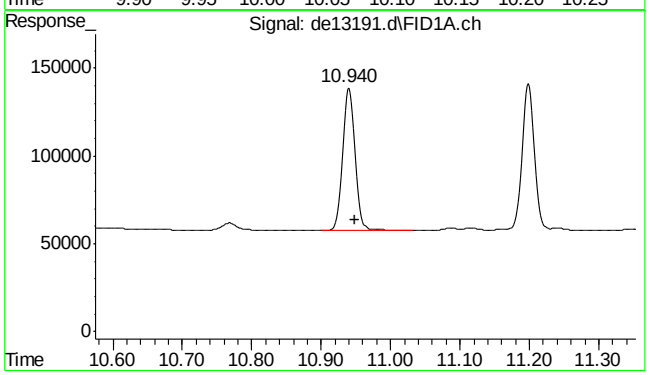
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



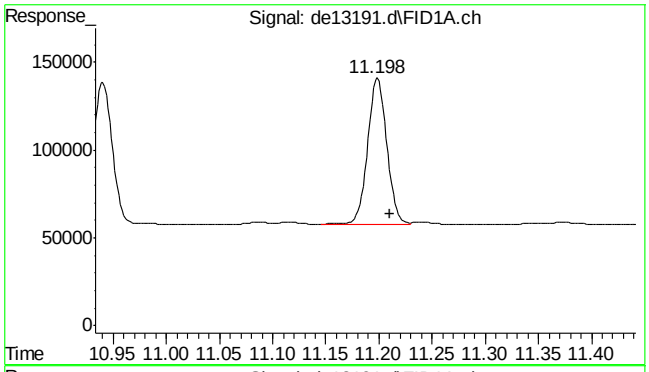
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

9.4.1

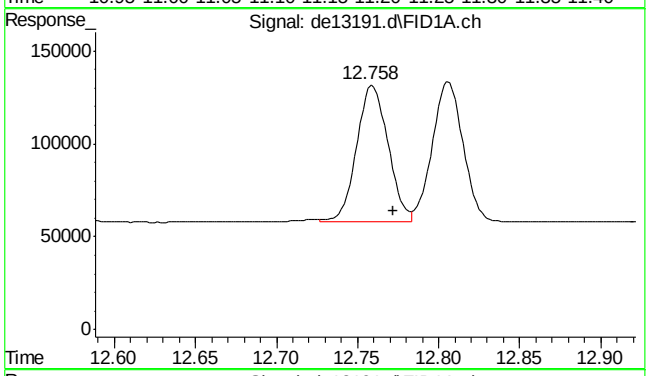
9

SGS ACCUTEST MC45969



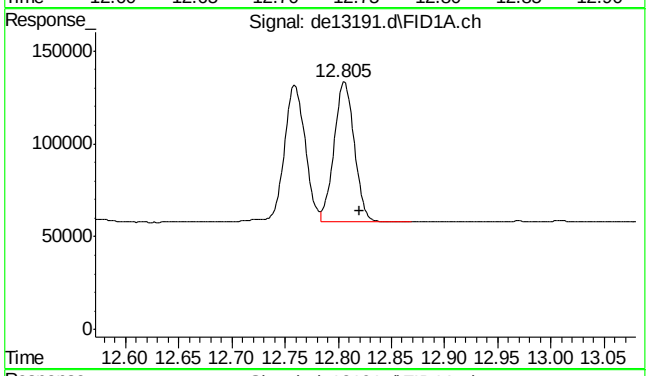
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



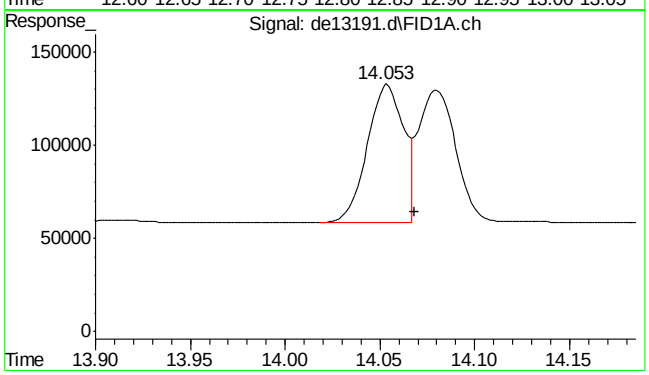
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



#15 chrysene

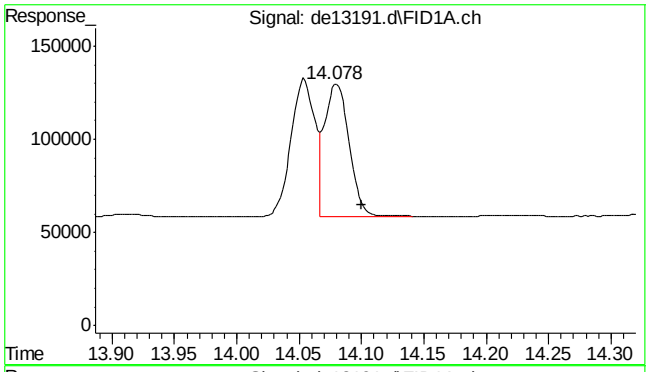
R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



#16 benzo(B)fluoranthene

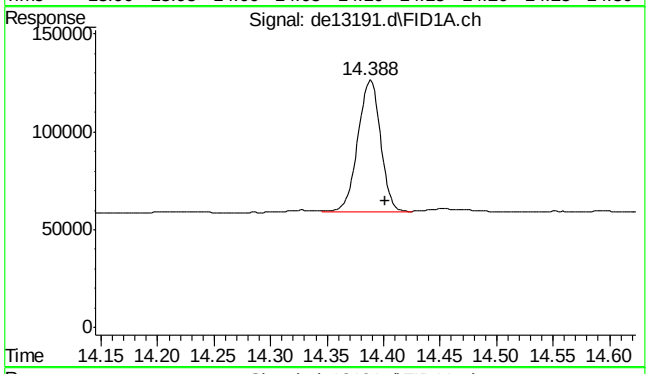
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m

SGS ACCUTEST MC45969



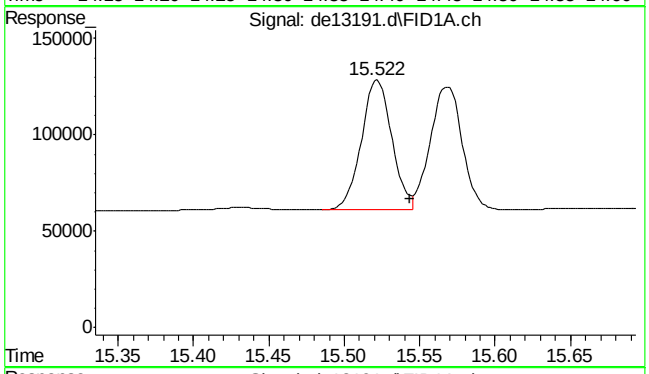
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



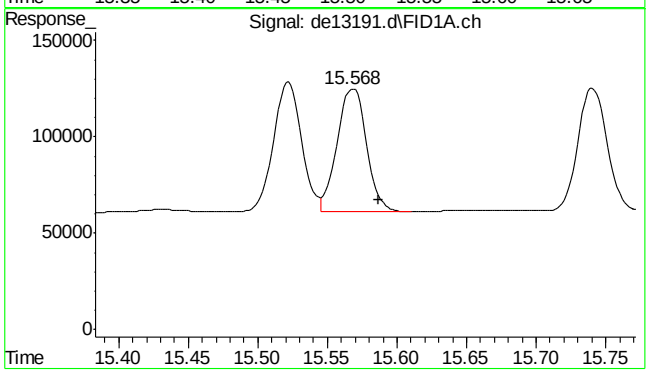
#18 benzo(a)pyrene

R.T.: 14.388 min
Delta R.T.: -0.013 min
Response: 94743
Conc: 0.97 µg/ml



#19 indeno(1,2,3-cd)pyrene

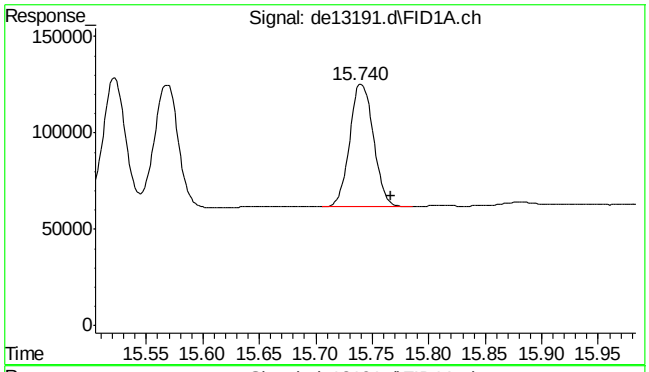
R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



#20 dibenzo(ah)anthracene

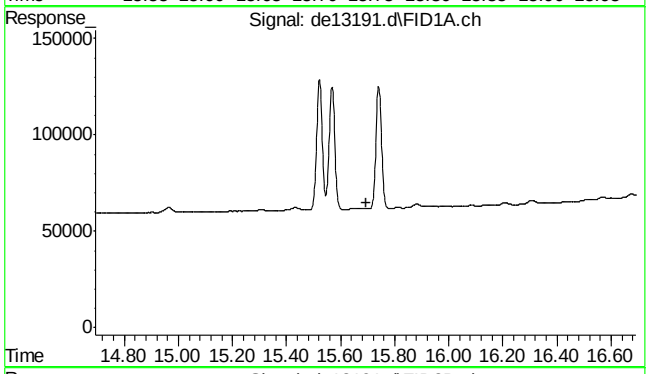
R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml

SGS ACCUTEST MC45969



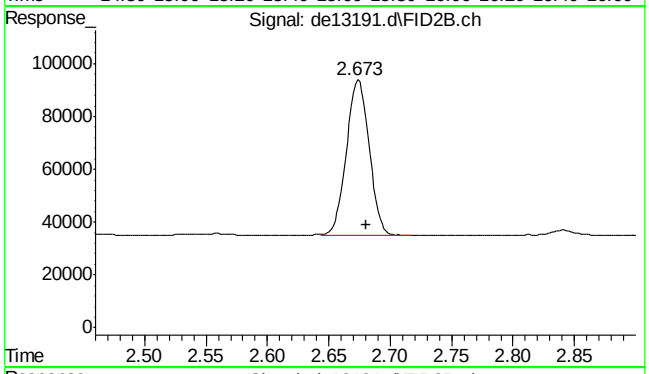
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



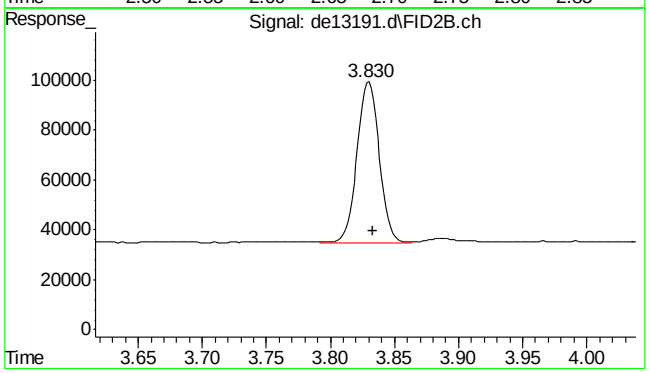
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

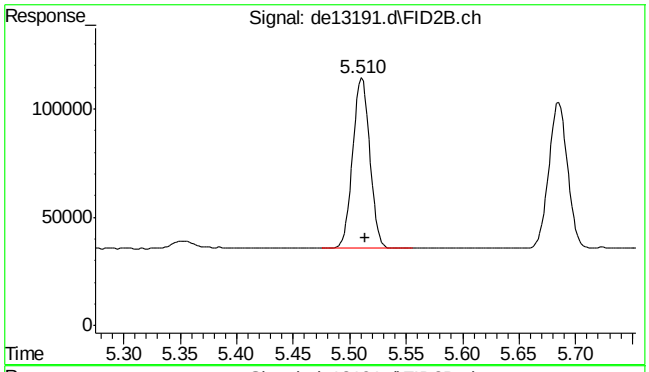
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



#26 c-10

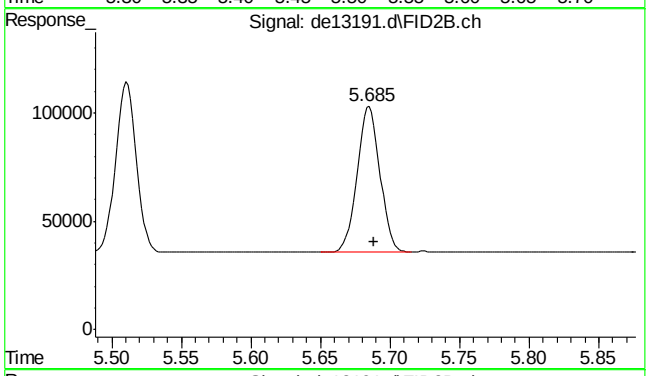
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m

SGS ACCUTEST MC45969



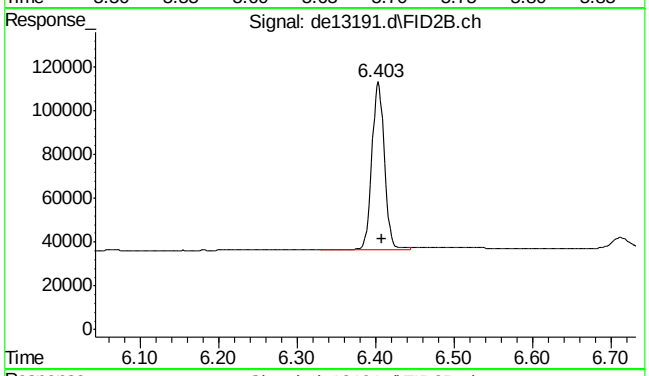
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



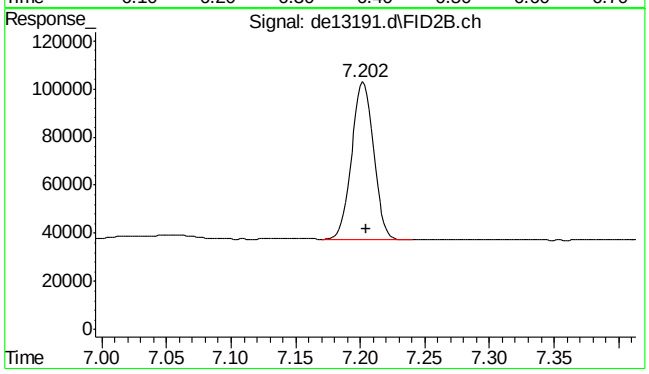
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 76748
Conc: 1.06 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 85696
Conc: 1.08 µg/ml



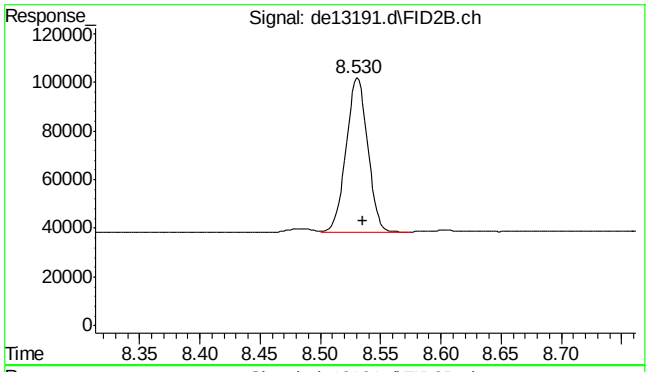
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

9.4.1

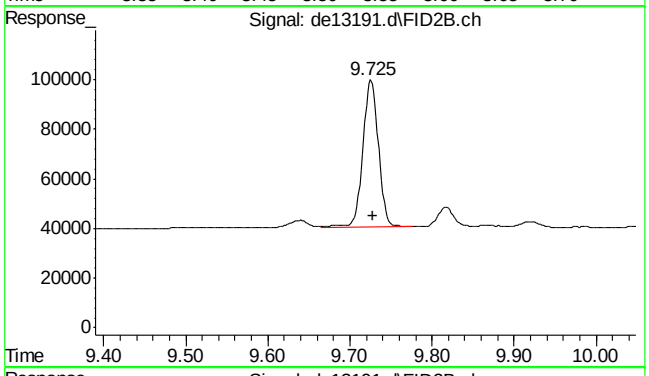
9

SGS ACCUTEST MC45969



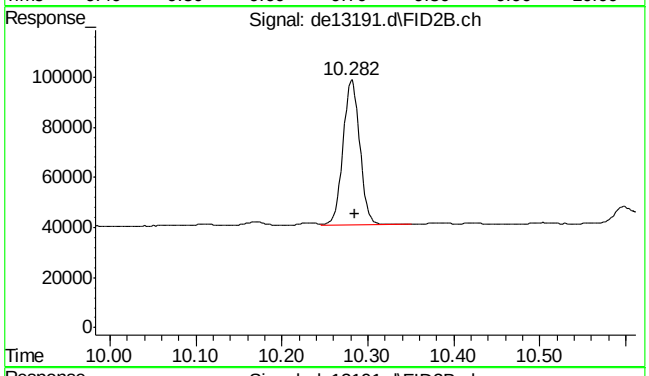
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



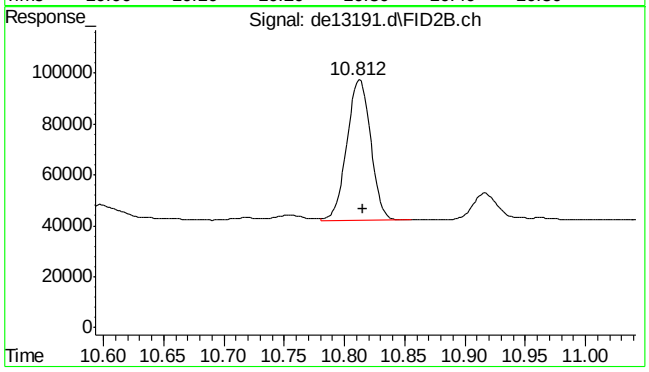
#32 c-18

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



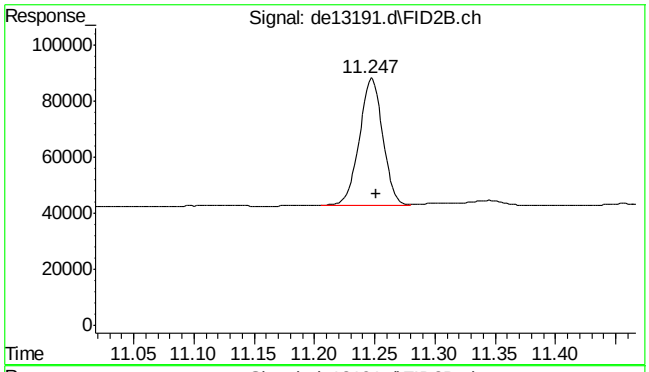
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml

9.4.1

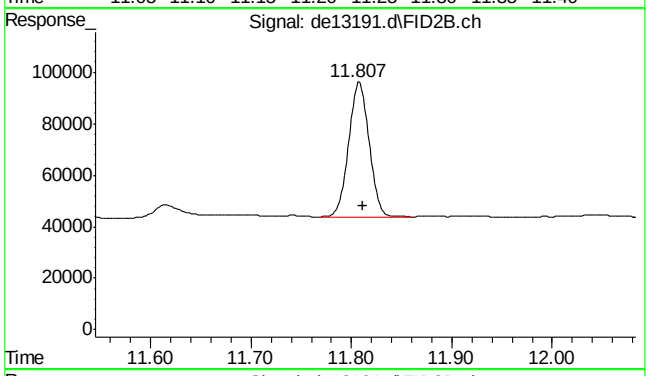
9

SGS ACCUTEST MC45969



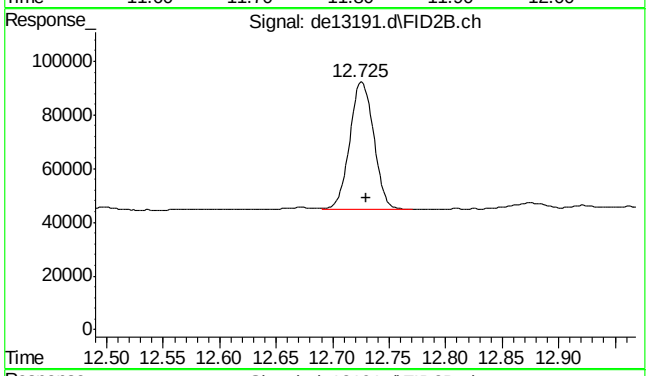
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



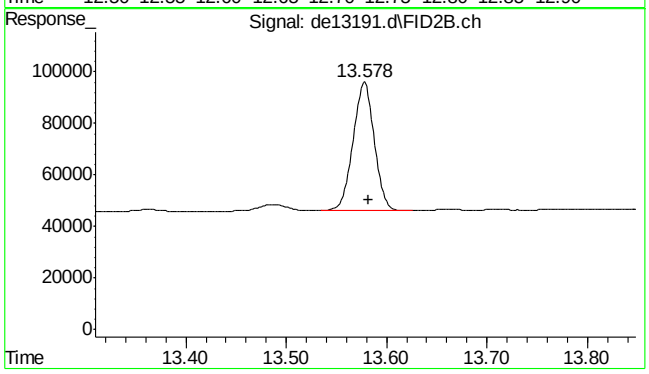
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

9.4.1

9

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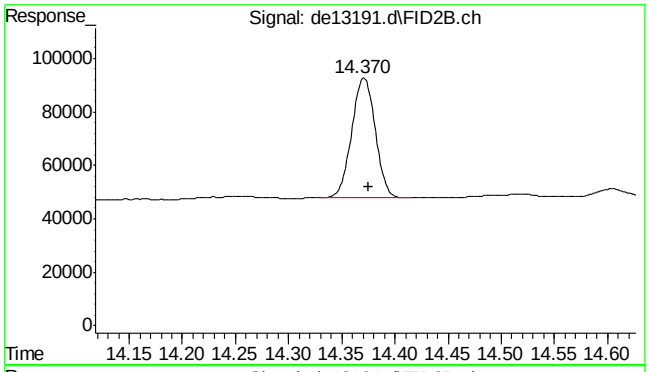
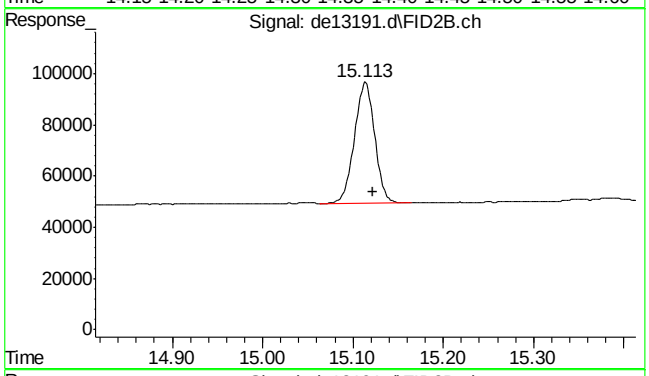


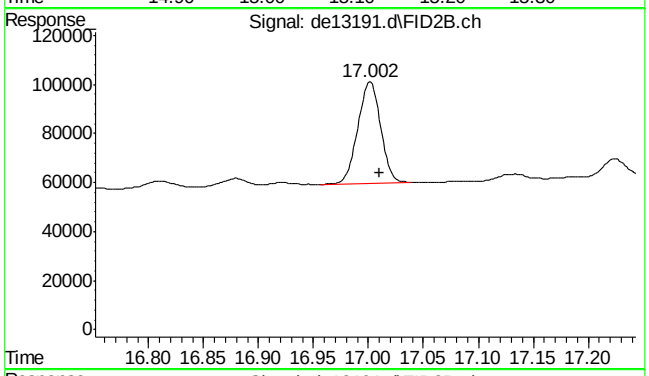
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



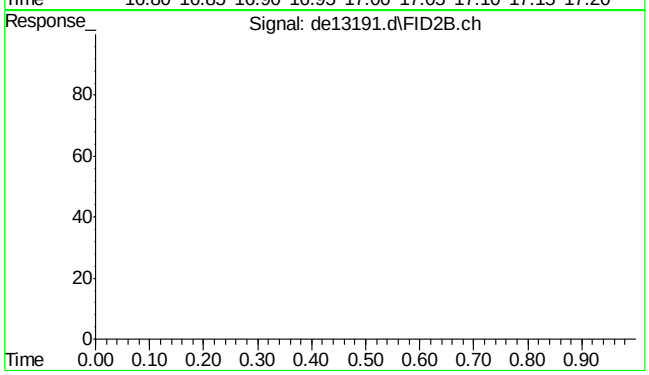
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 74594
Conc: 1.14 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 60516
Conc: 0.97 µg/ml m



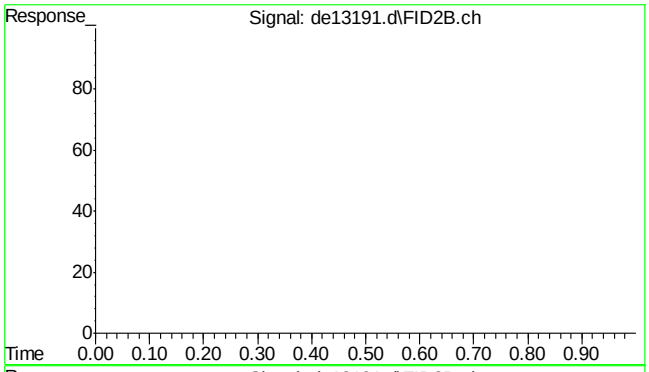
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.1

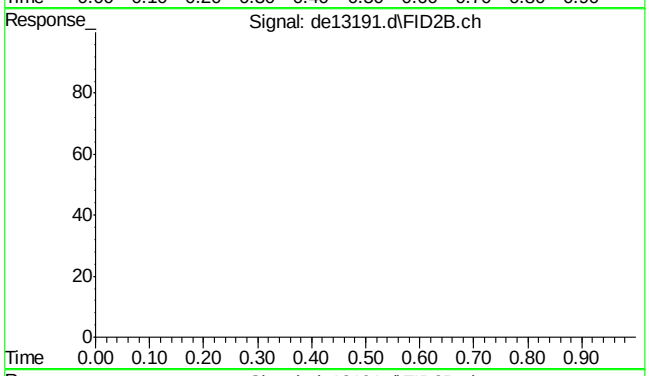
9

SGS ACCUTEST MC45969



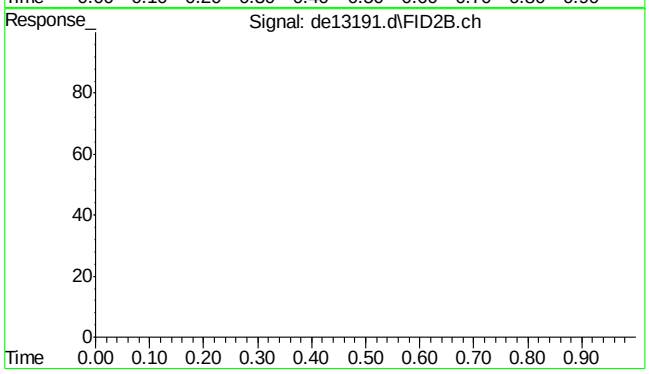
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

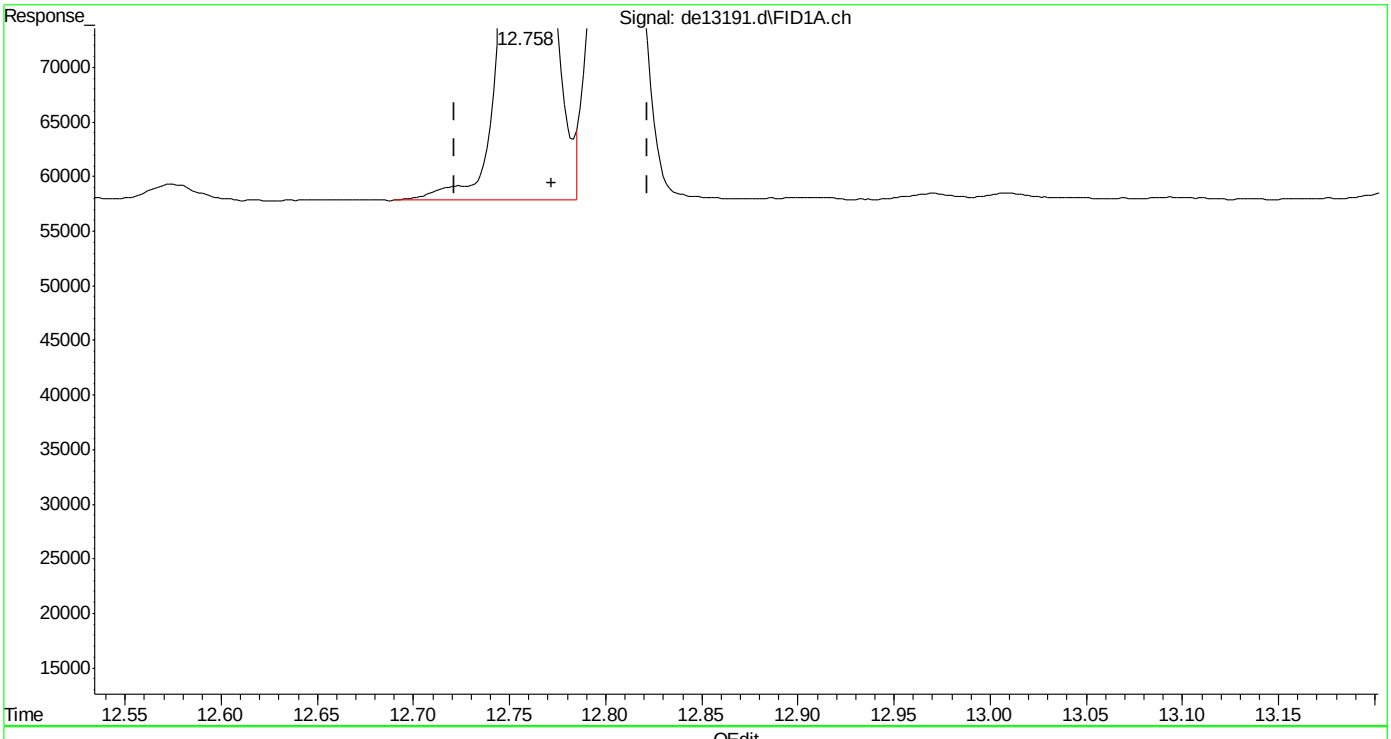
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.758min 1.044 µg/ml
response 102644

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:36:15 2016 Page: 1

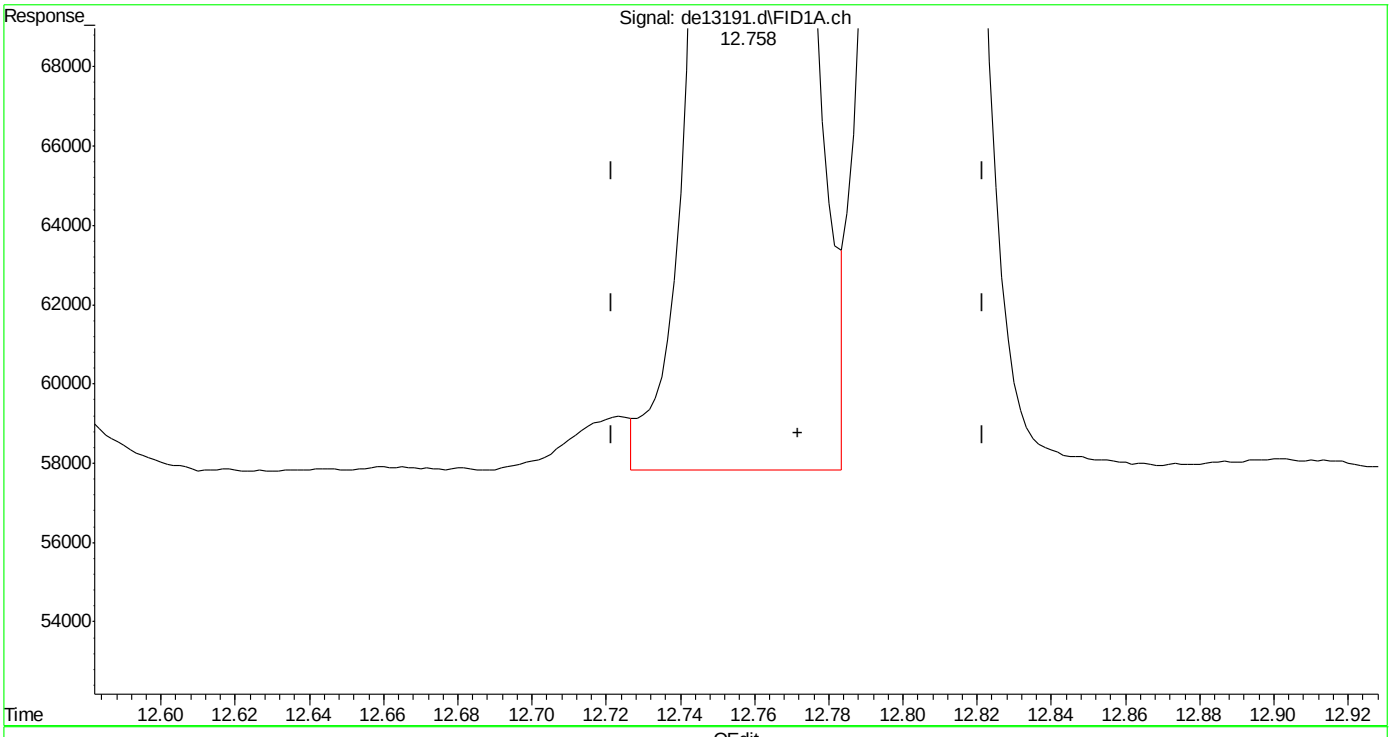
SGS ACCUTEST MC45969

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

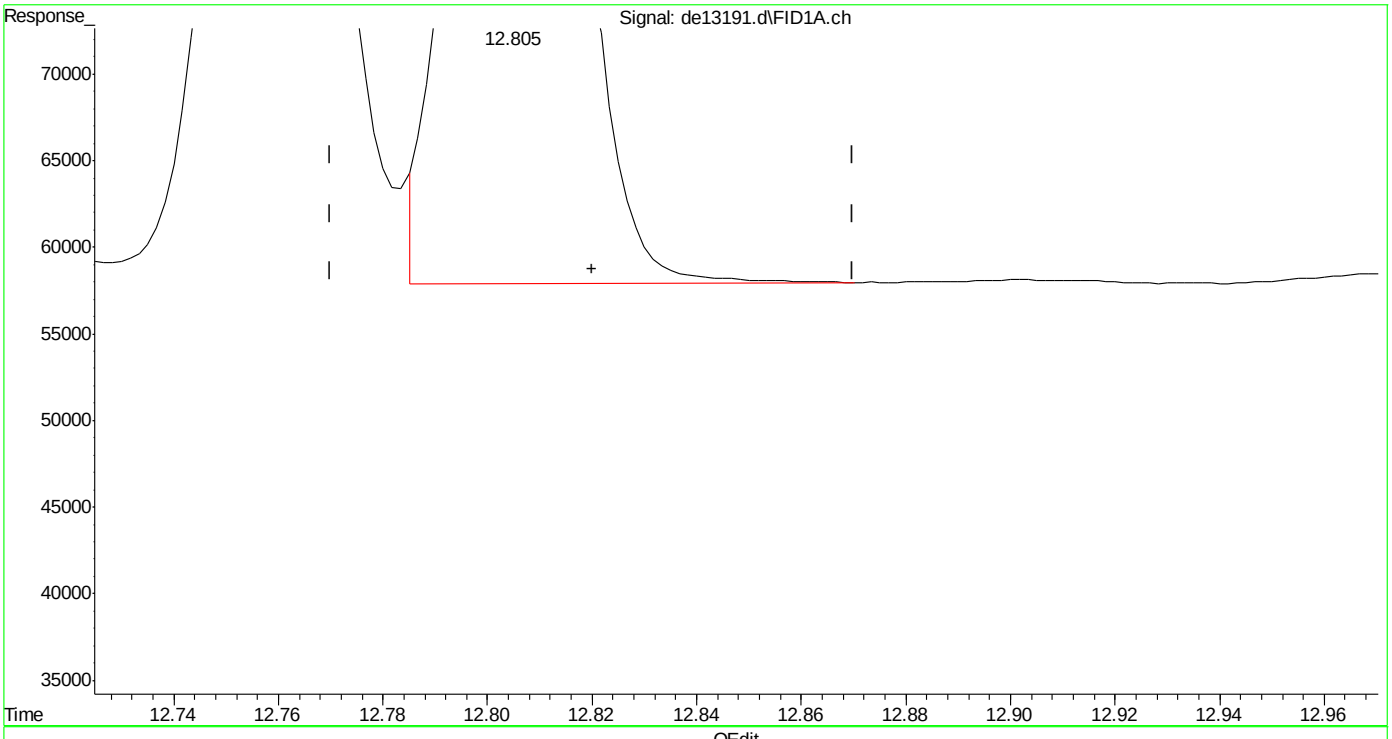
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.805min 1.000 µg/ml
response 99307

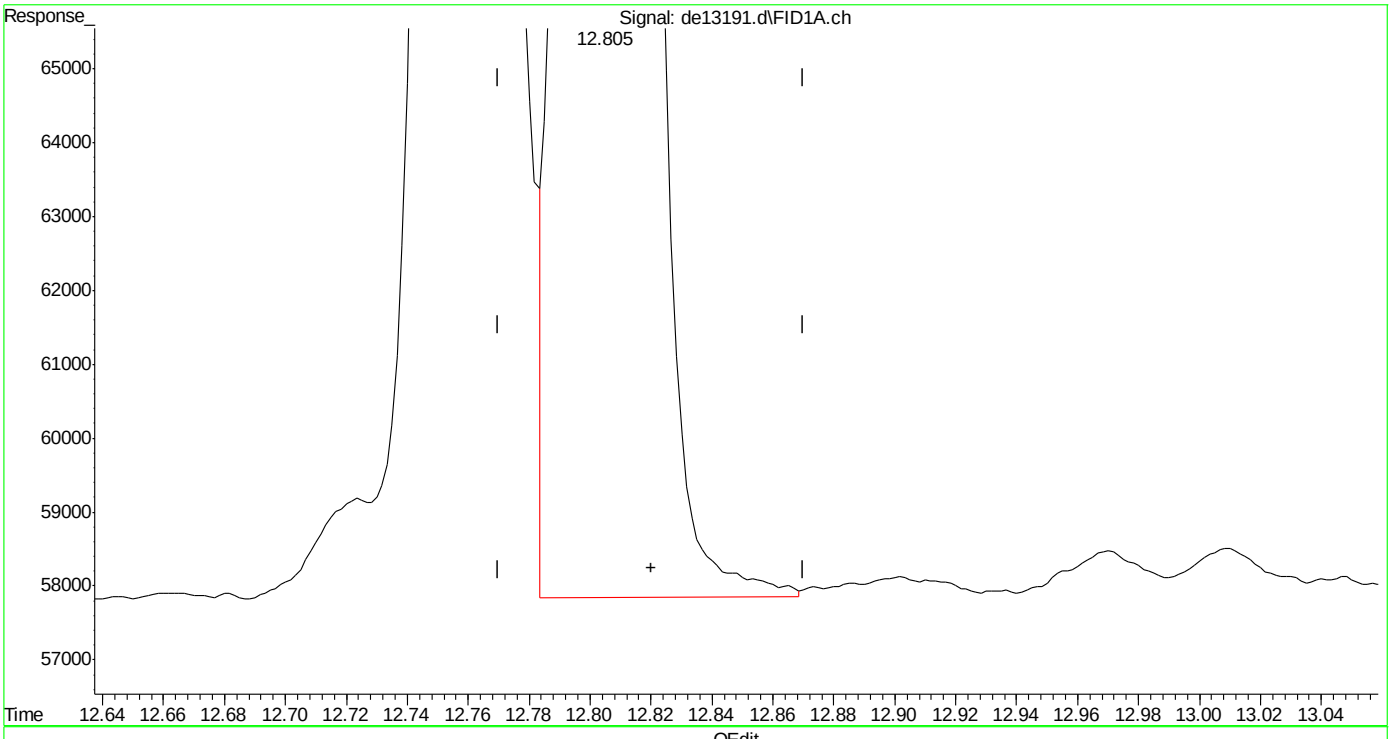
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.805min 1.010 µg/ml m
response 100279

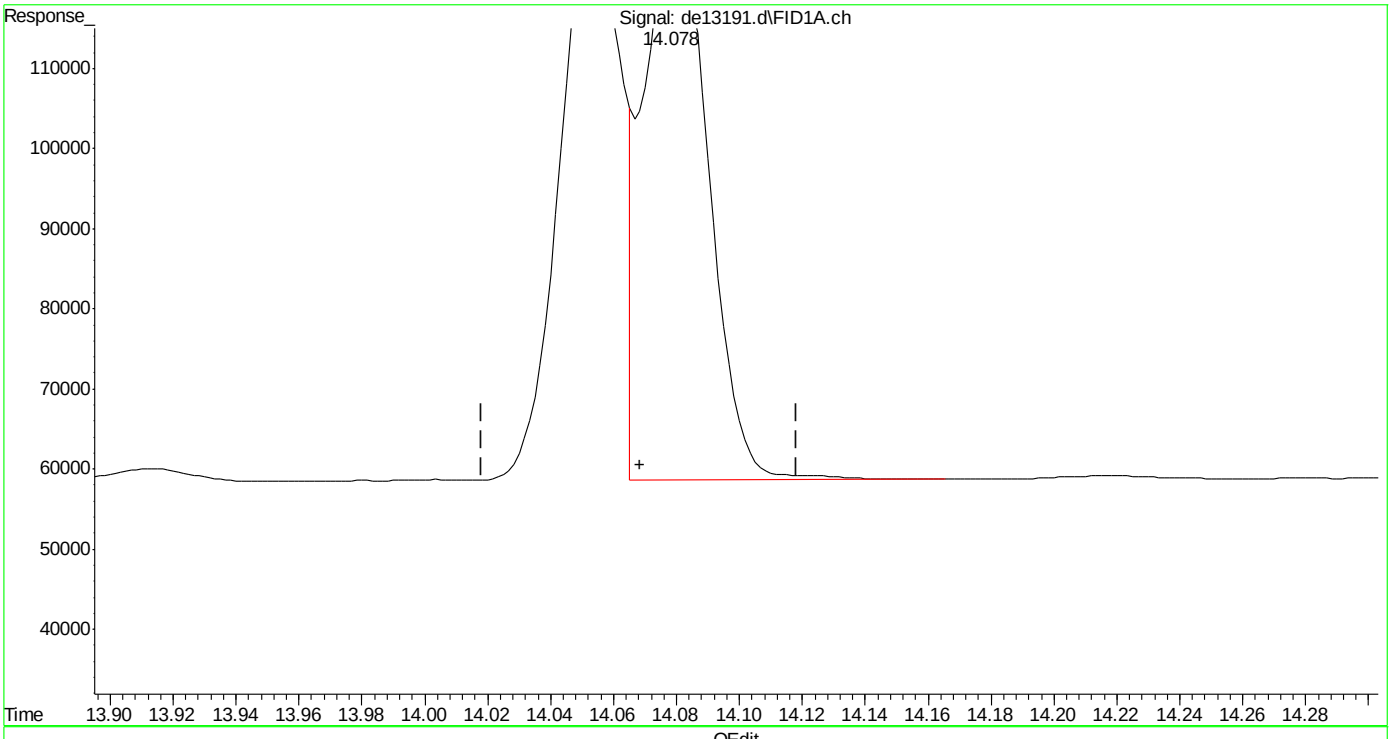
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.078min 0.983 µg/ml
response 100280

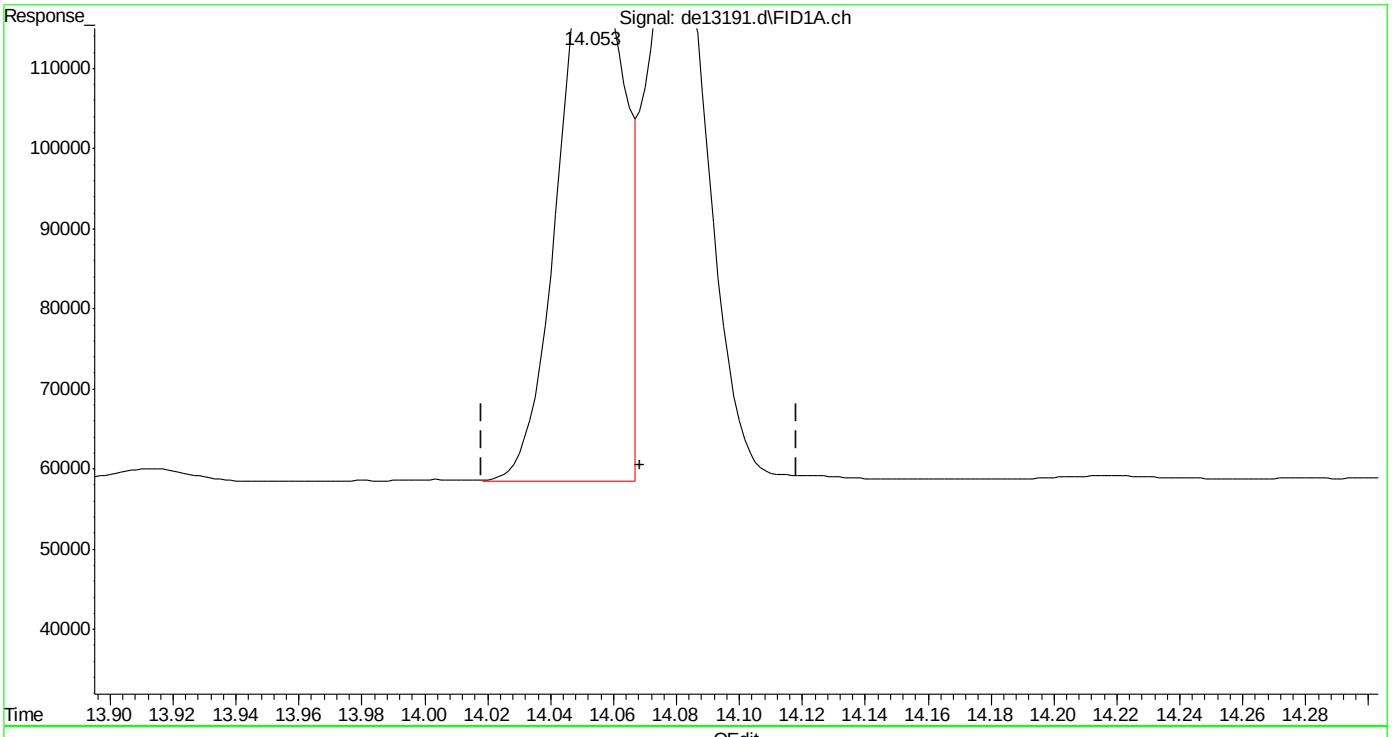
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.053min 0.988 µg/ml m
response 100827

(+) = Expected Retention Time

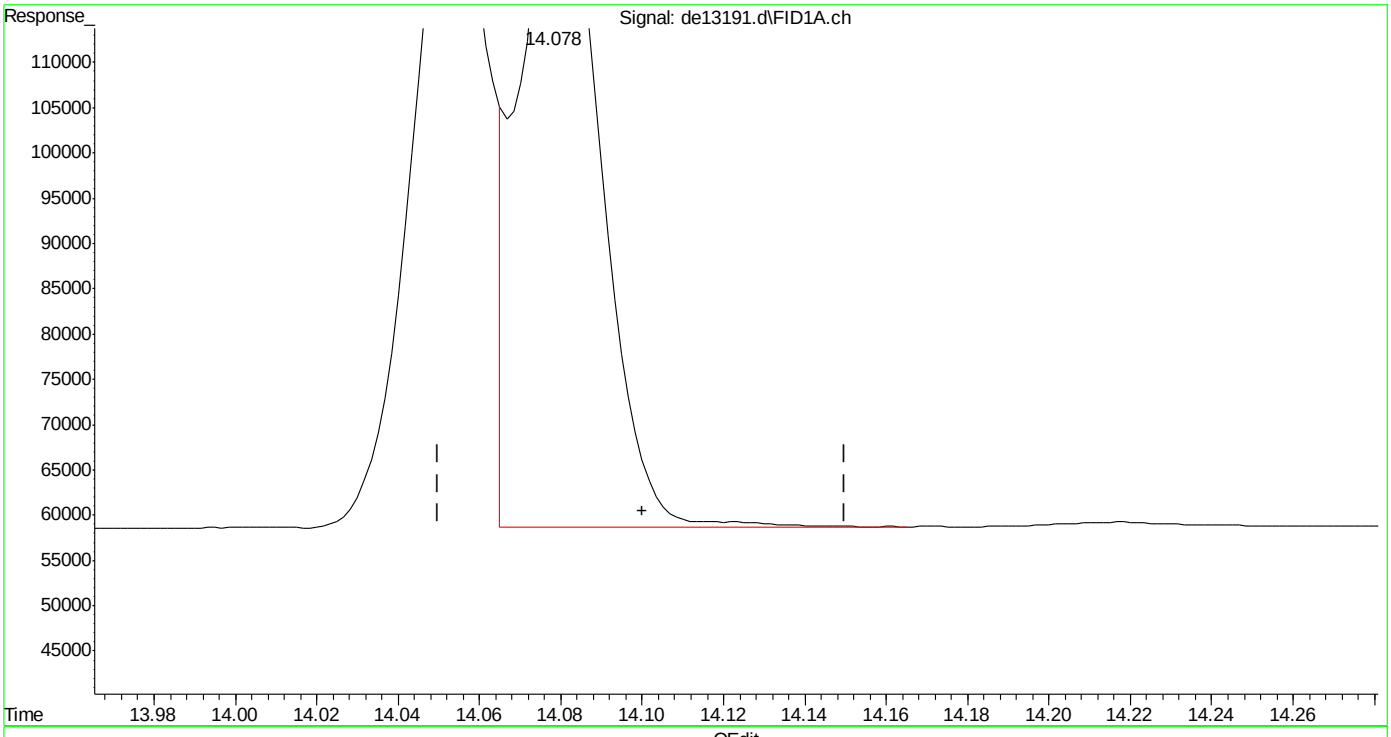
SGS ACCUTEST MC45969

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

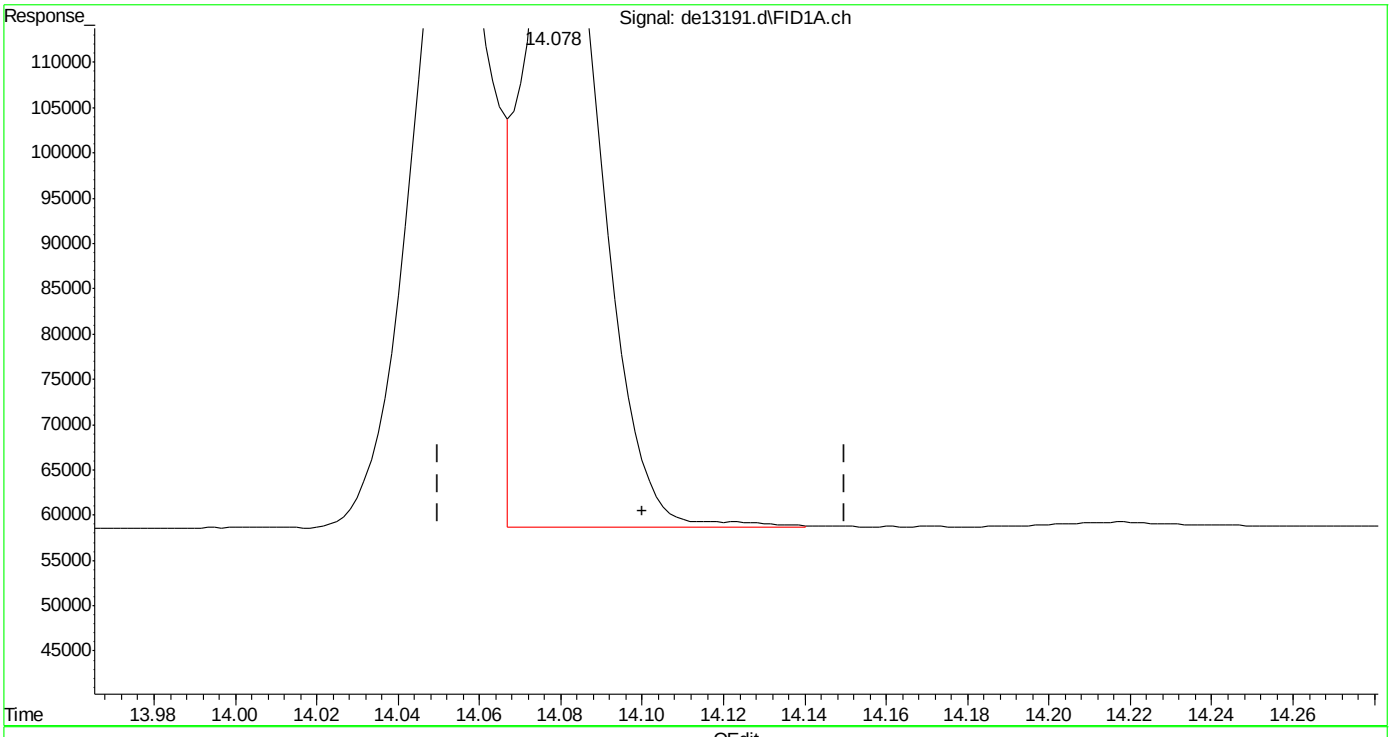
SGS ACCUTEST MC45969

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

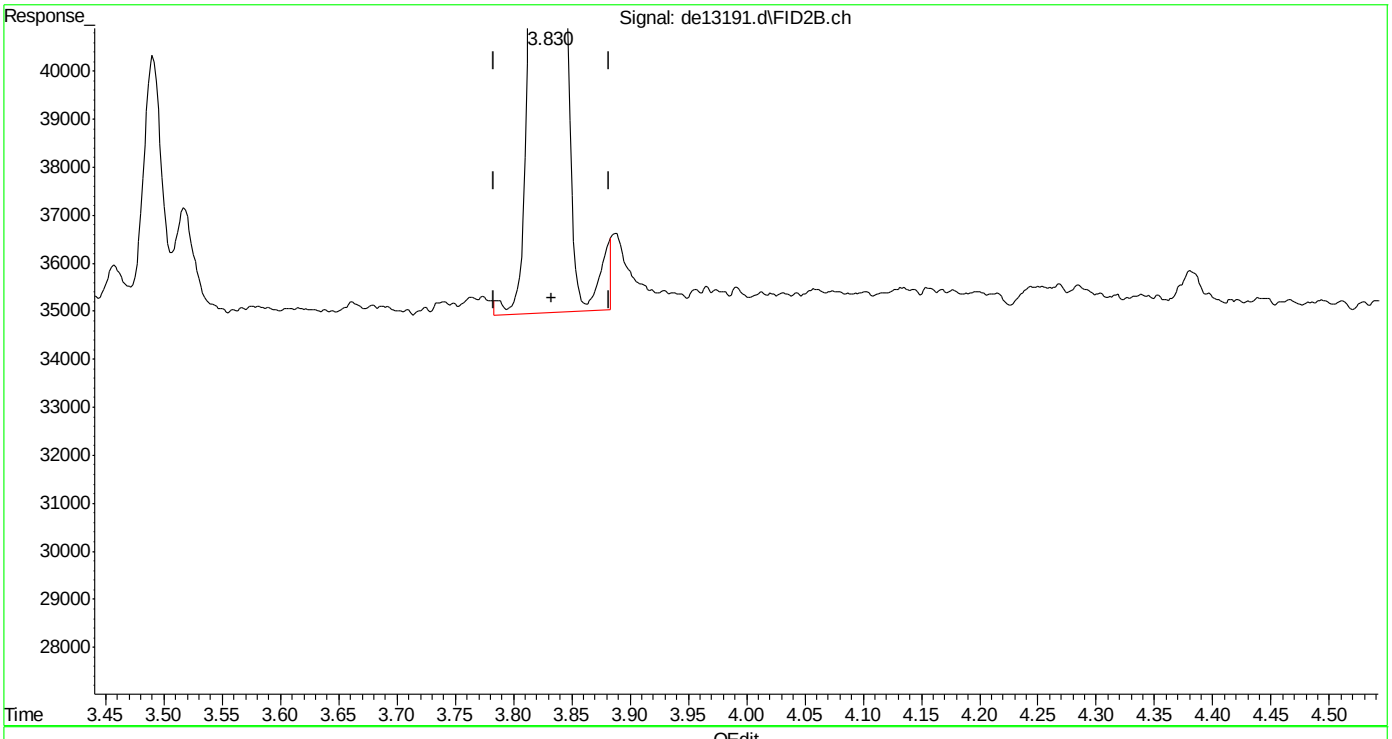
(+) = Expected Retention Time

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

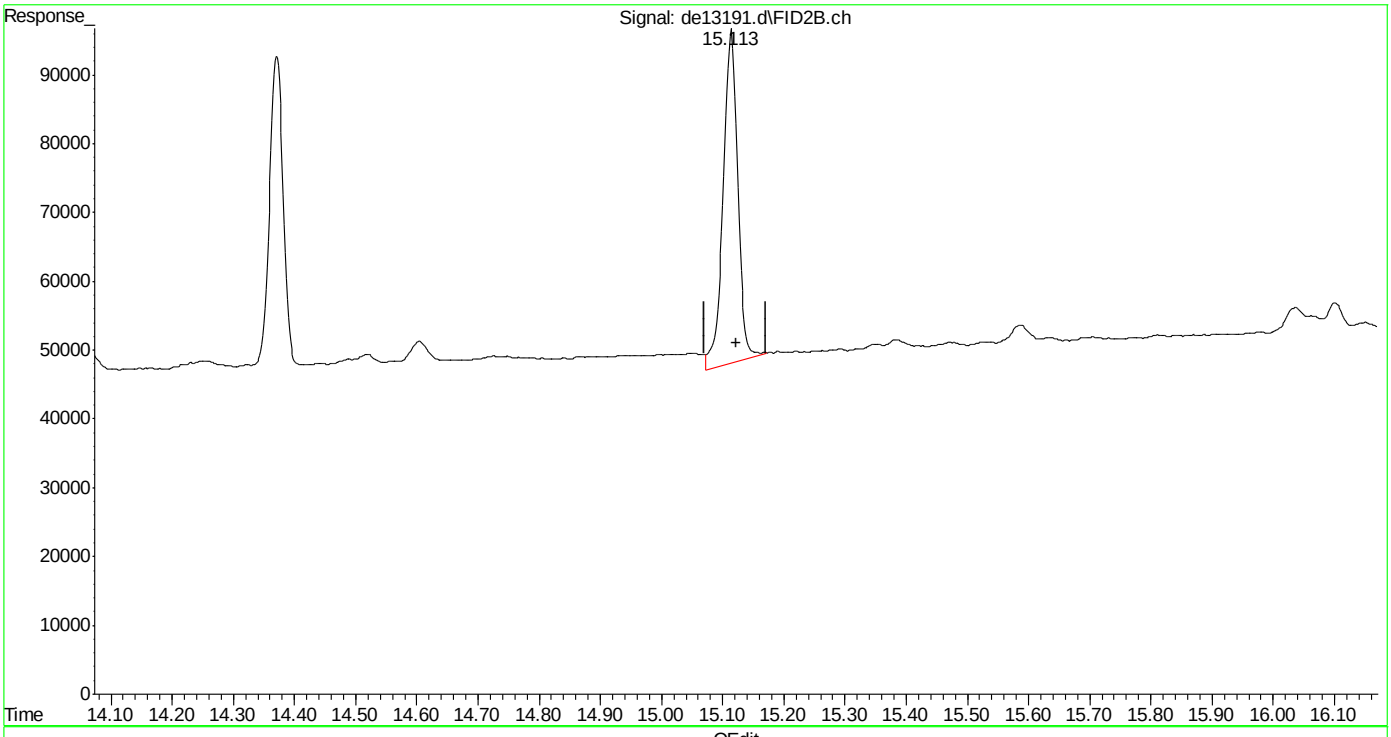
(+) = Expected Retention Time

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

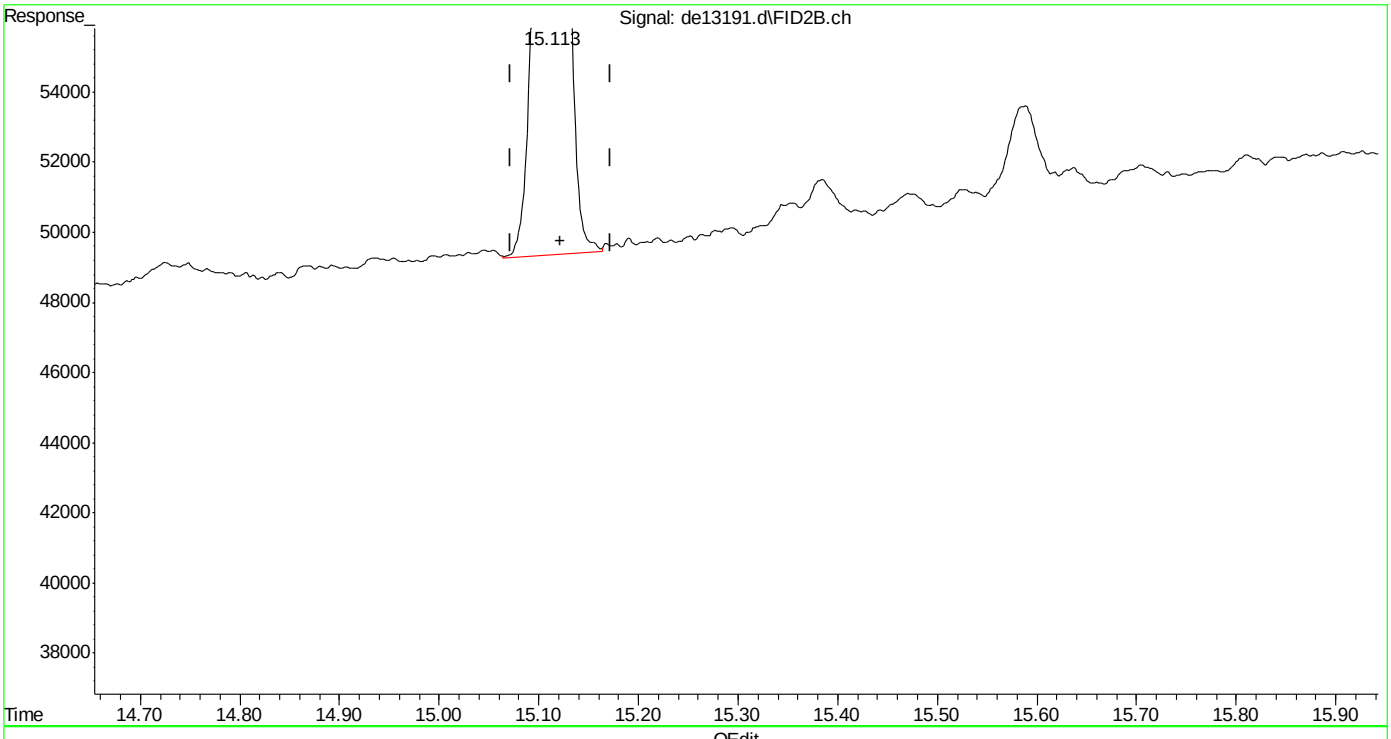
SGS ACCUTEST MC45969

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 MC45969

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	184769	1.881 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.40%		
6) s 2-bromonaphthalene	7.532	125964	1.890 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.45%		
11) s o-terphenyl	10.077	208029	1.952 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.76%		
35) s 1-chlorooctadecane	11.247	119513	2.175 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 10.87%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3994043	2.778 µg/mlm
2) naphthalene	5.352	205575	1.860 µg/ml
3) 2-methylnaphthalene	6.248	205018	1.875 µg/ml
5) acenaphthylene	7.365	202426	1.881 µg/ml
7) acenaphthene	7.607	207471	1.893 µg/ml
8) fluorene	8.252	204542	1.903 µg/ml
9) phenanthrene	9.433	207031	1.943 µg/ml
10) anthracene	9.492	199105	2.019 µg/ml
12) fluoranthene	10.940	203479	1.960 µg/ml
13) pyrene	11.198	206224	1.967 µg/ml
14) benzo(a)anthracene	12.760	197822	2.010 µg/mlm
15) chrysene	12.807	197927	1.992 µg/mlm
16) benzo(B)fluoranthene	14.053	197572	1.943 µg/mlm
17) benzo(k)fluoranthene	14.082	193855	1.989 µg/mlm
18) benzo(a)pyrene	14.387	184685	1.912 µg/ml
19) indeno(1,2,3-cd)pyrene	15.523	186820	1.909 µg/ml
20) dibenzo(ah)anthracene	15.568	185980	1.983 µg/ml
21) benzo(ghi)perylene	15.742f	184915	1.960 µg/ml
25) h c-9	2.680	157422	2.139 µg/mlm
26) h c-10	3.833	158649	2.139 µg/mlm
27) naphthalene #2	5.510	169071	2.176 µg/ml
28) c-12	5.685	157764	2.137 µg/ml
29) 2-methylnaphthalene #2	6.403	172009	2.148 µg/ml
30) c-14	7.202	157636	2.130 µg/ml
31) c-16	8.530	156773	2.123 µg/ml
32) c-18	9.725	154646	2.108 µg/ml
33) c-19	10.282	151034	2.126 µg/ml
34) c-20	10.812	148378	2.126 µg/ml
36) c-22	11.808	146070	2.124 µg/ml
37) c-24	12.725	135579	2.049 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc Units
38)		c-26	13.577	142920	2.087 µg/ml
39)		c-28	14.370	137233	2.060 µg/ml
40)	h	c-30	15.122	139197	2.037 µg/mlm
41)	h	c-36	17.010	119416	1.930 µg/mlm

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

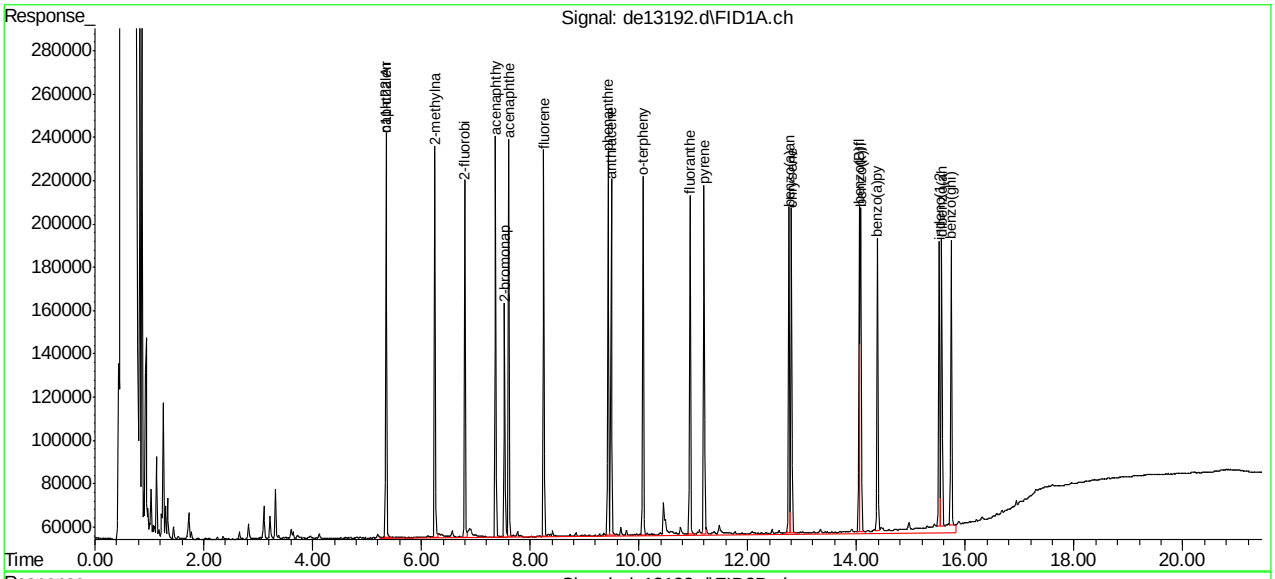
SGS ACCUTEST MC45969

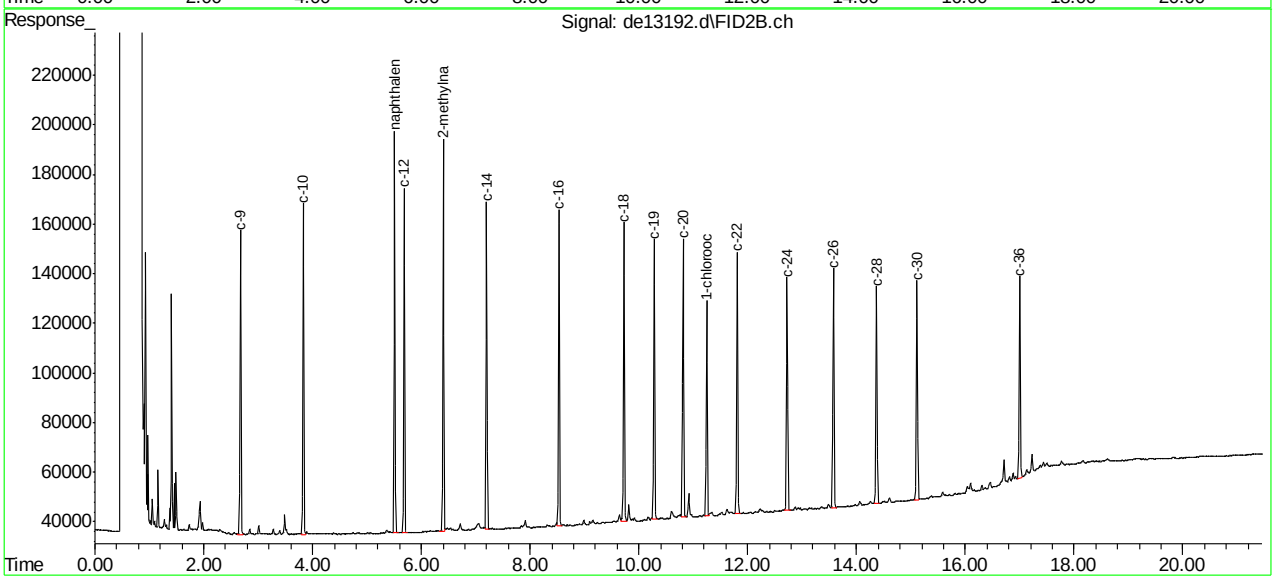
Quantitation Report (QT Reviewed)

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

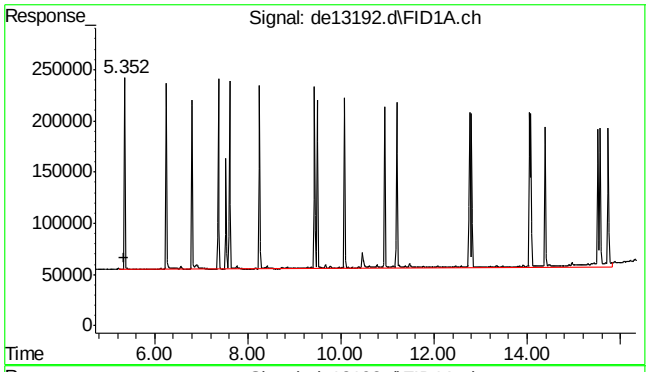
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



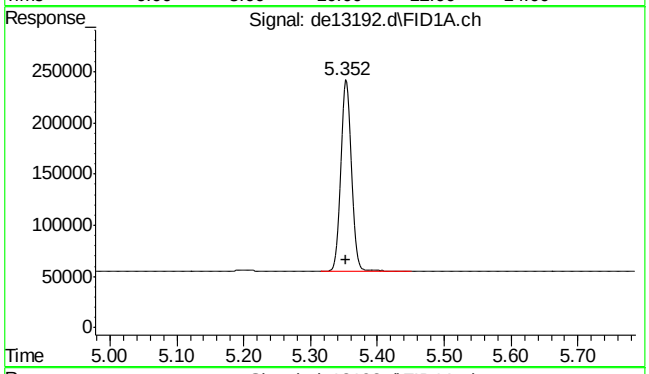


SGS ACCUTEST MC45969



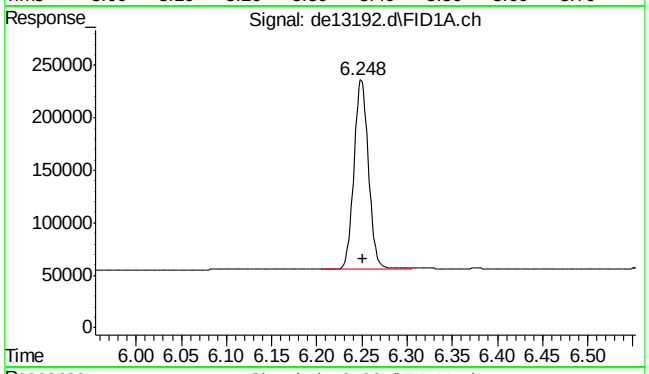
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



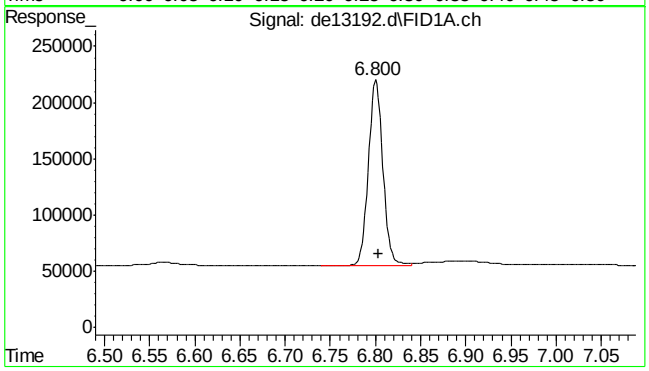
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



#3 2-methylnaphthalene

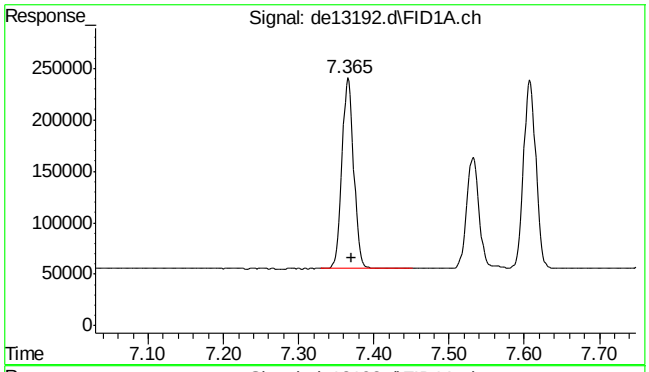
R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



#4 2-fluorobiphenyl

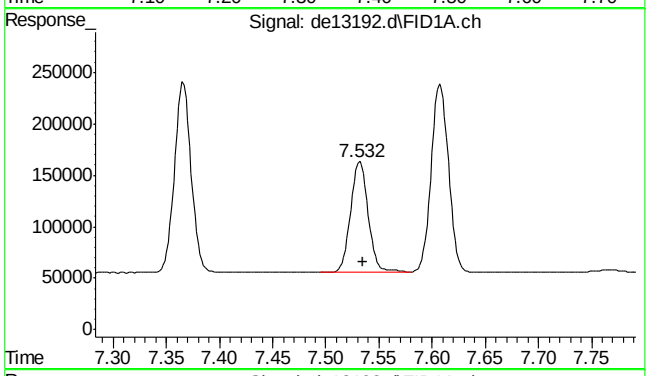
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml

SGS ACCUTEST MC45969



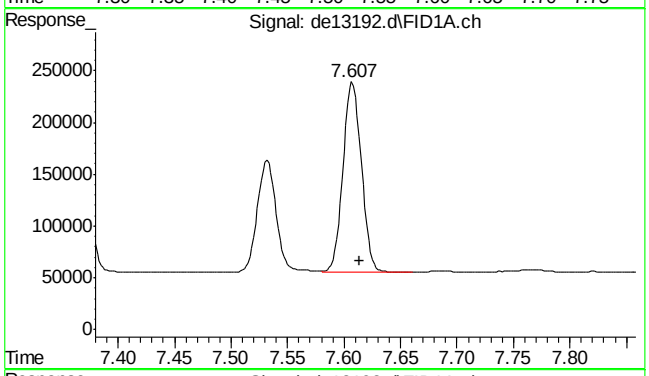
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



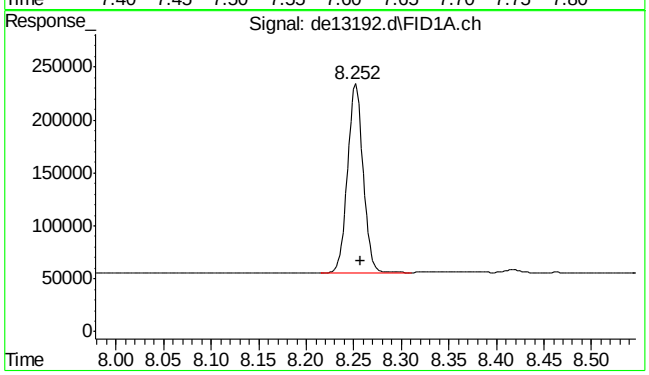
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



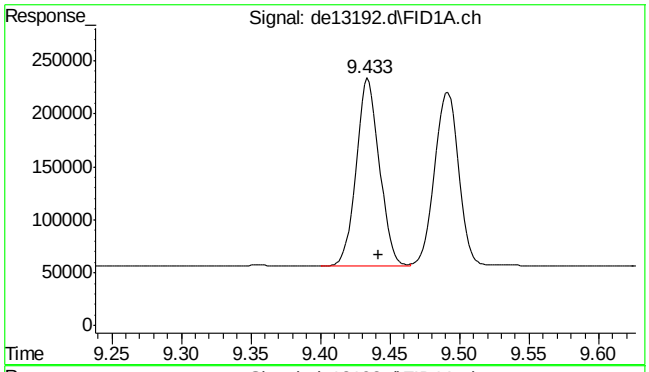
#7 acenaphthene

R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



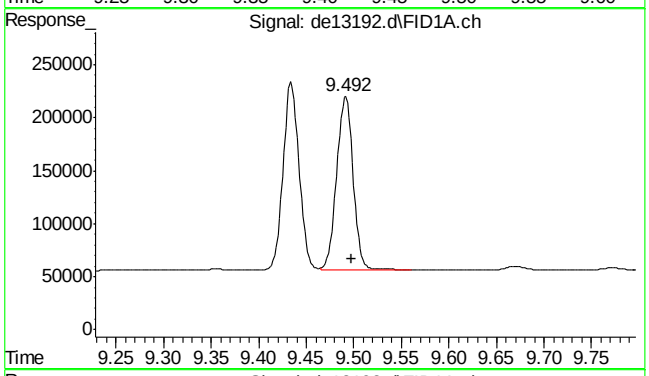
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml



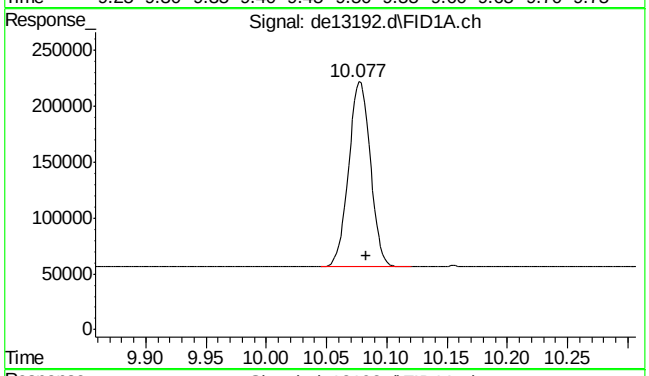
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



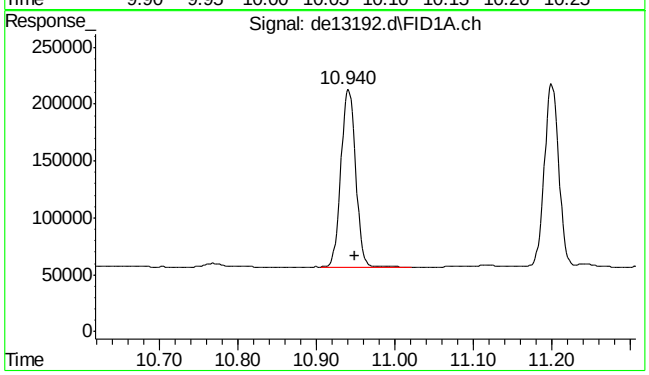
#10 anthracene

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

9.4.2

9

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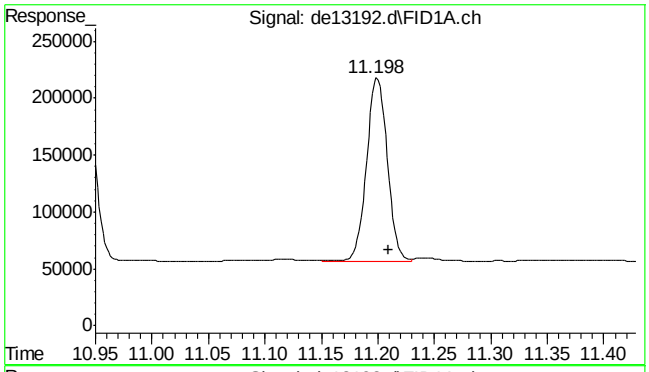
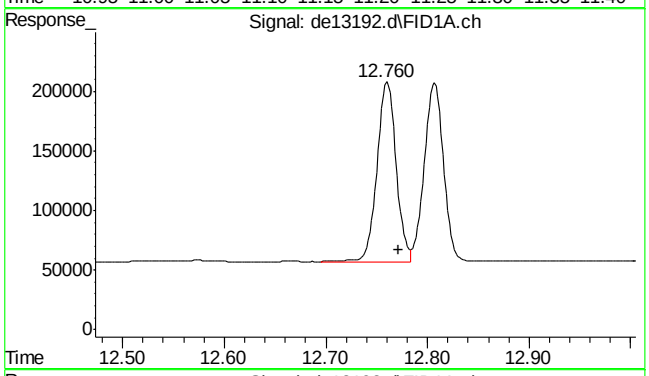


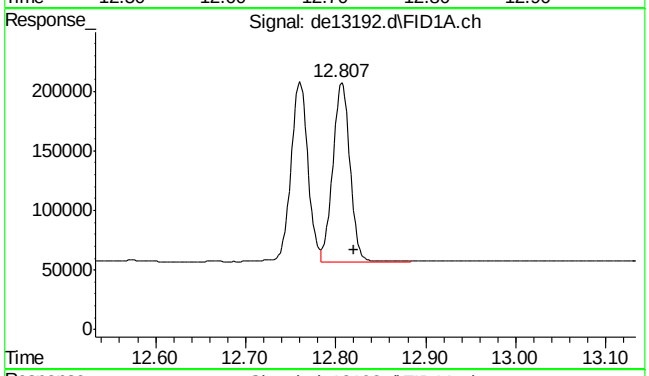
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



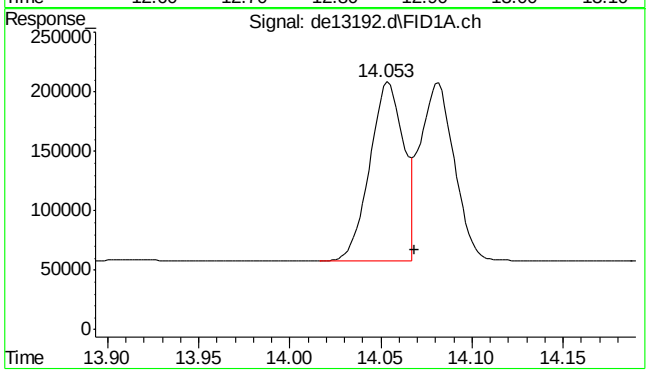
#14 benzo(a)anthracene

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

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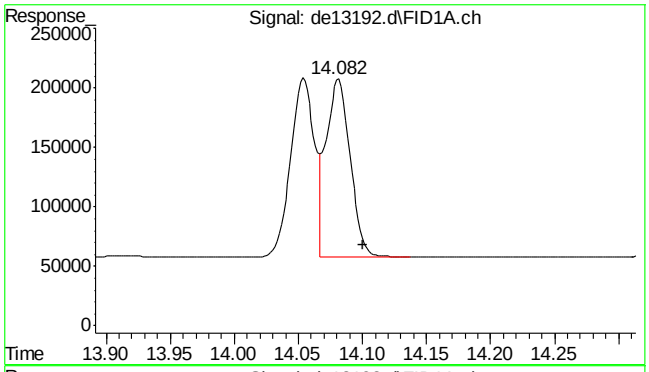
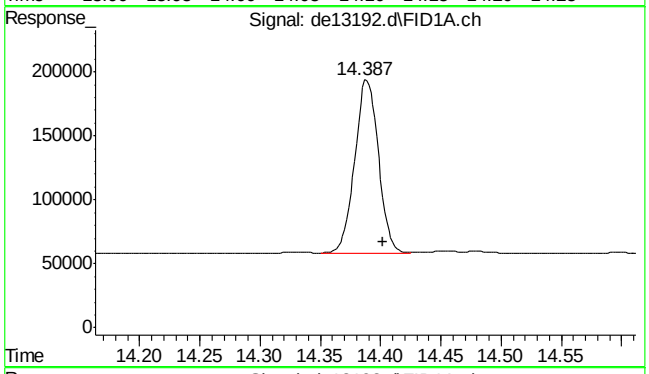


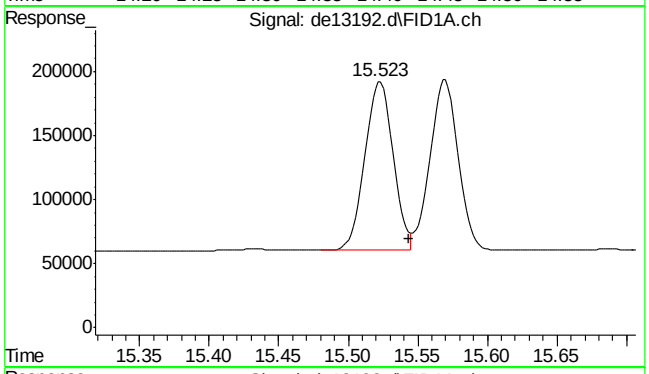
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



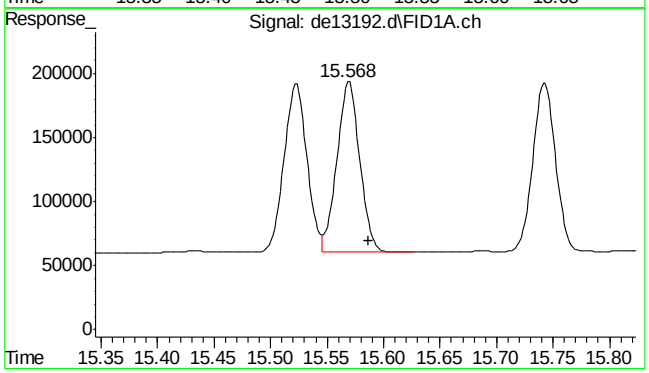
#18 benzo(a)pyrene

R.T.: 14.387 min
Delta R.T.: -0.015 min
Response: 184685
Conc: 1.91 µg/ml



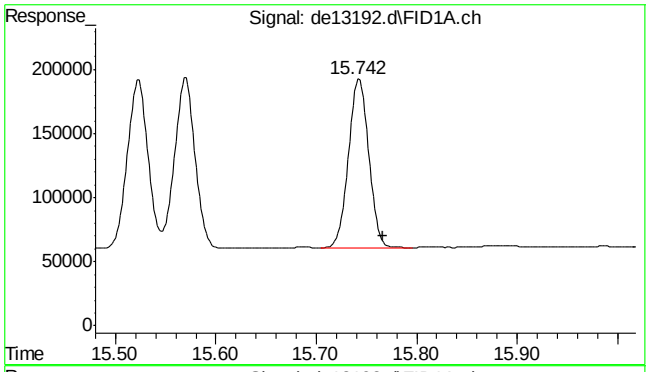
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



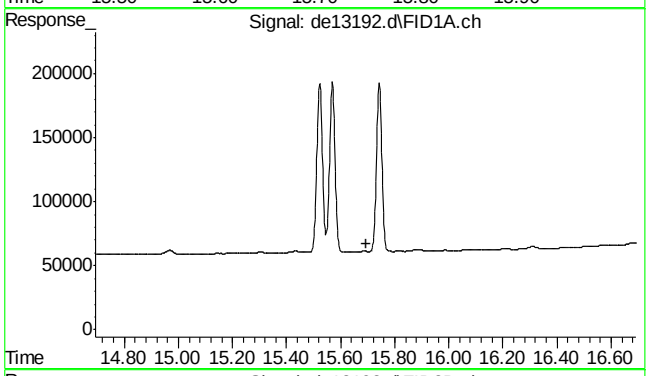
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml



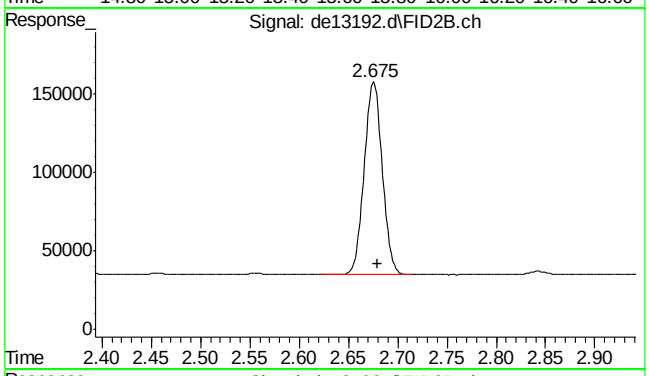
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



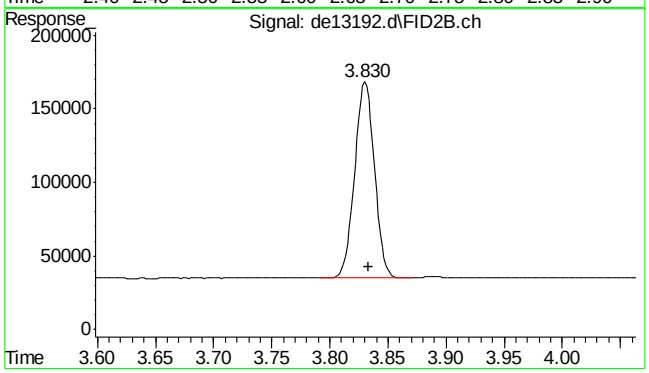
#22 bht

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

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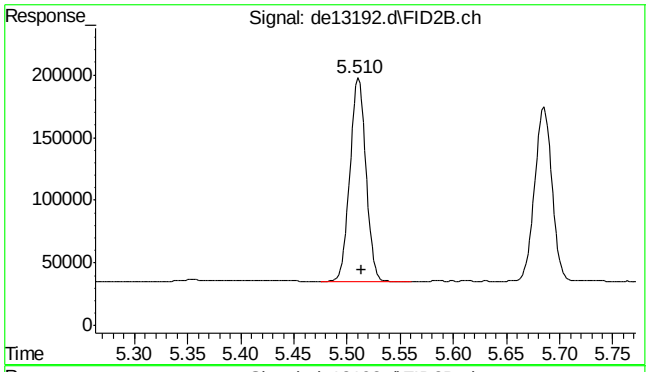
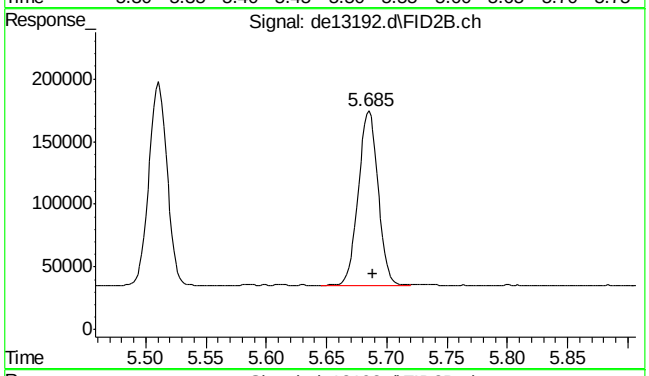


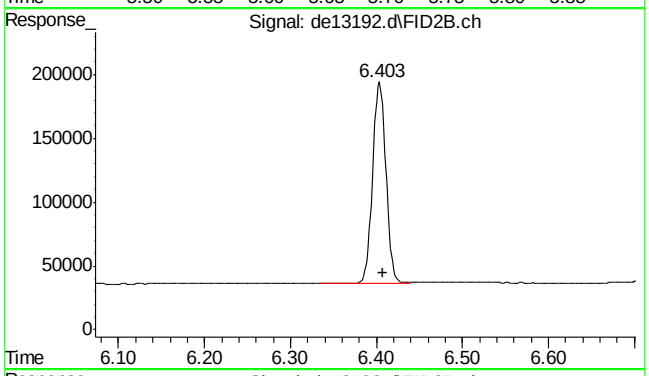
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



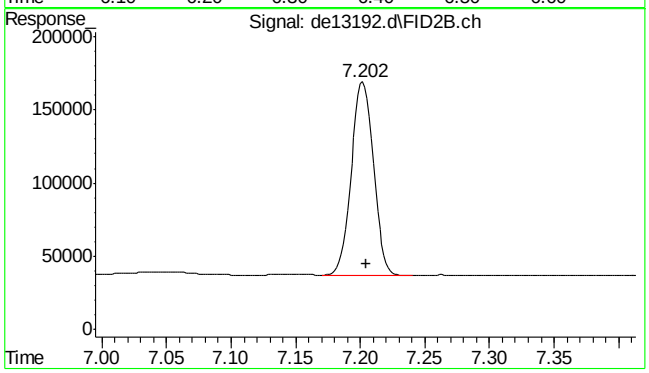
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 157764
Conc: 2.14 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 172009
Conc: 2.15 µg/ml



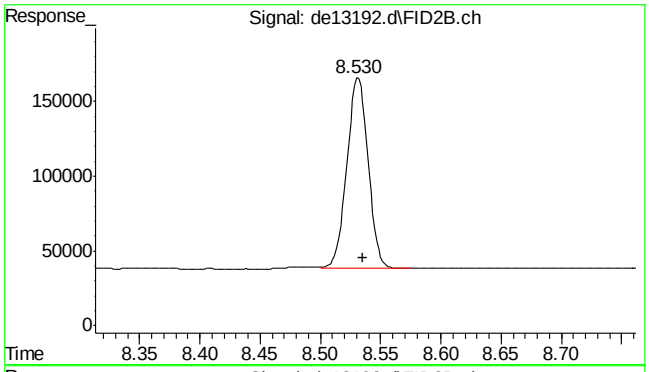
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.4.2

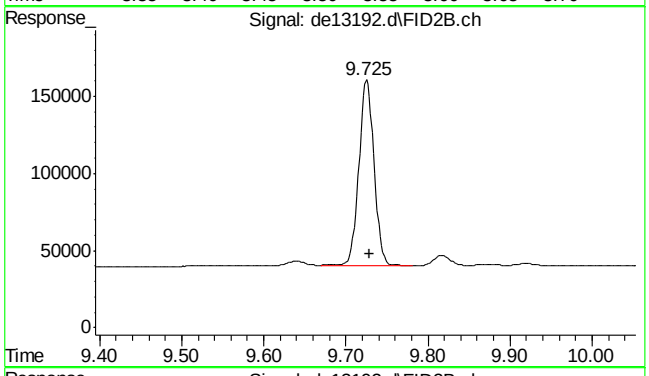
9

SGS ACCUTEST MC45969



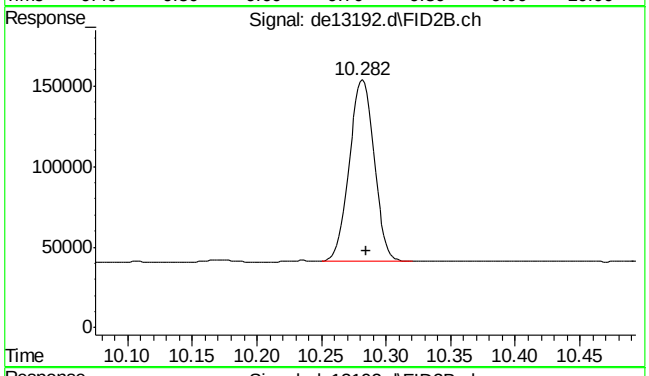
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



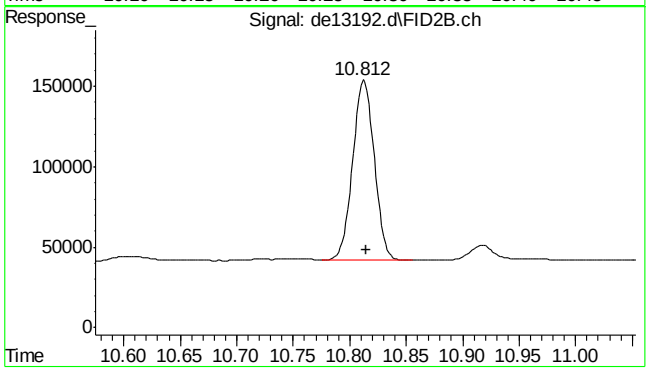
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



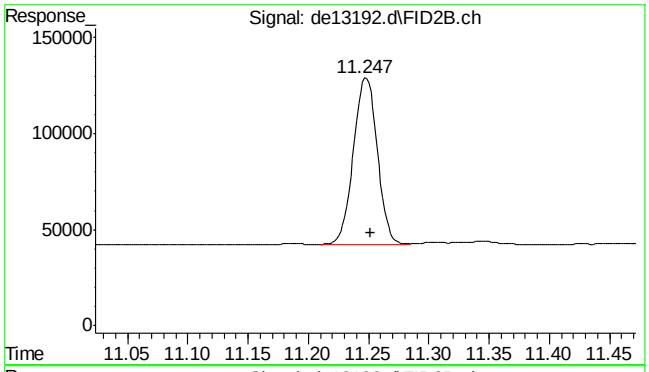
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

9.4.2

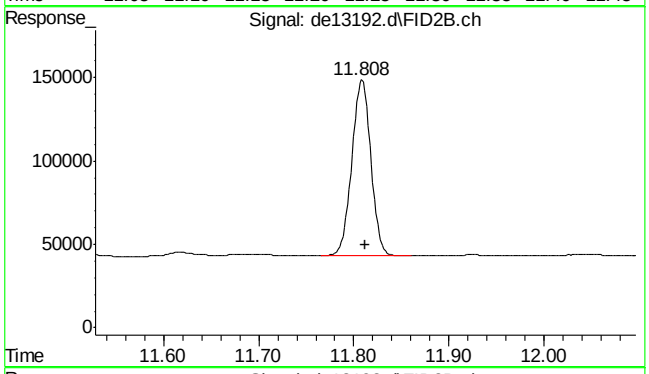
9

SGS ACCUTEST MC45969



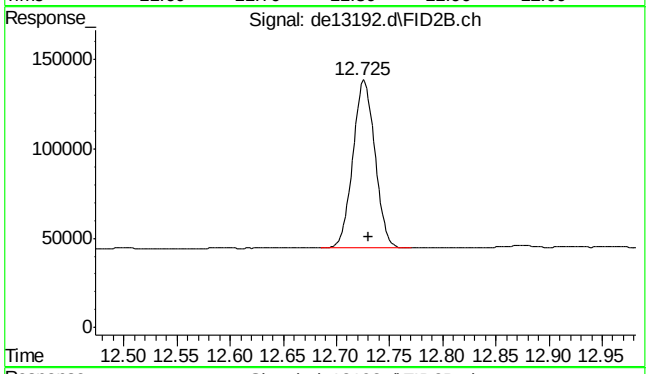
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



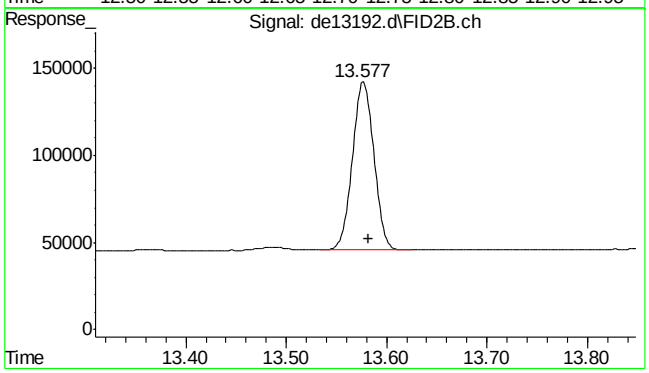
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

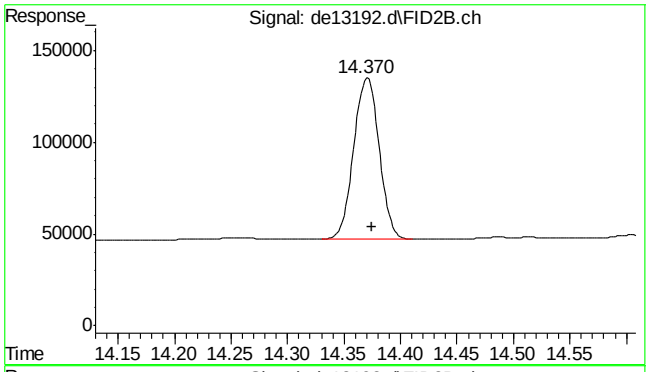
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

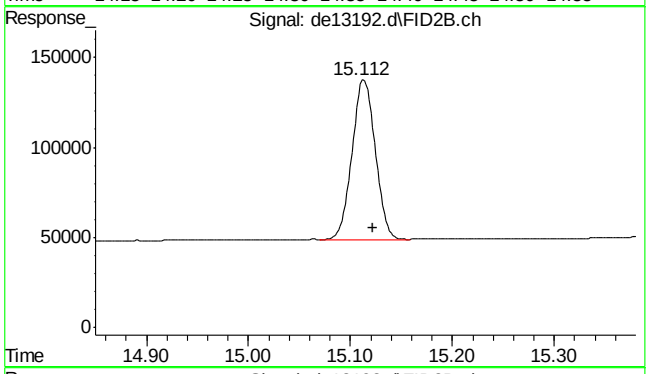
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC45969



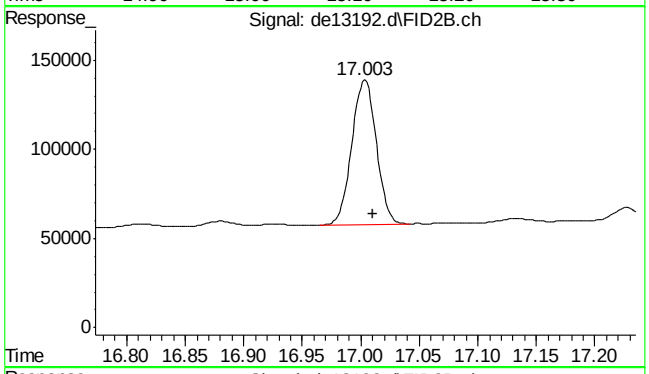
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



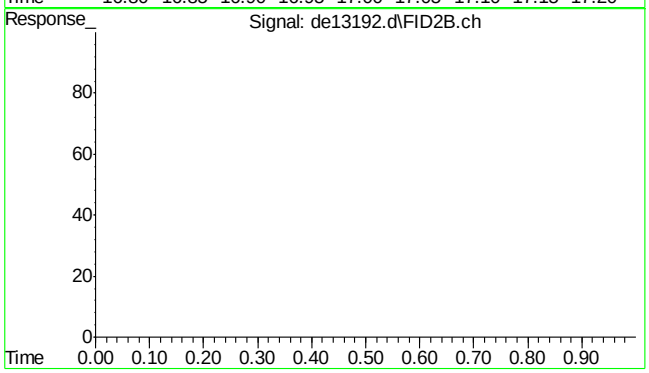
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 139197
Conc: 2.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 119416
Conc: 1.93 µg/ml m



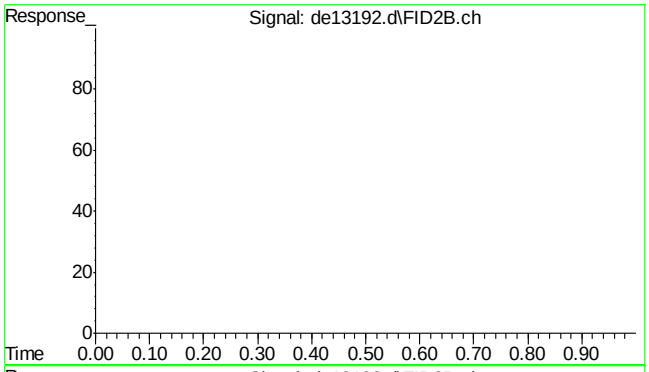
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.2

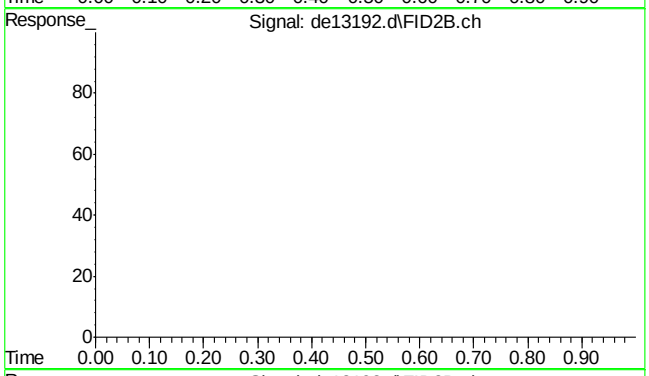
9

SGS ACCUTEST MC45969



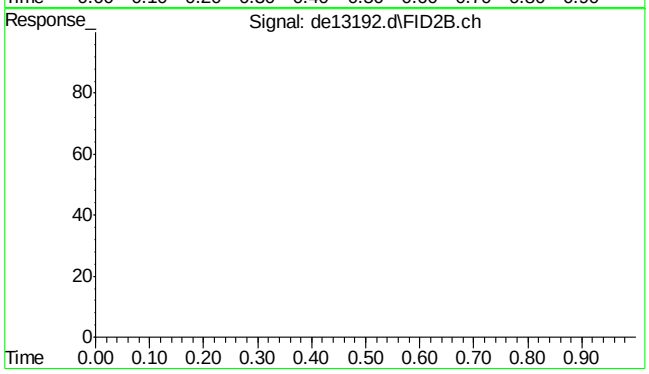
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

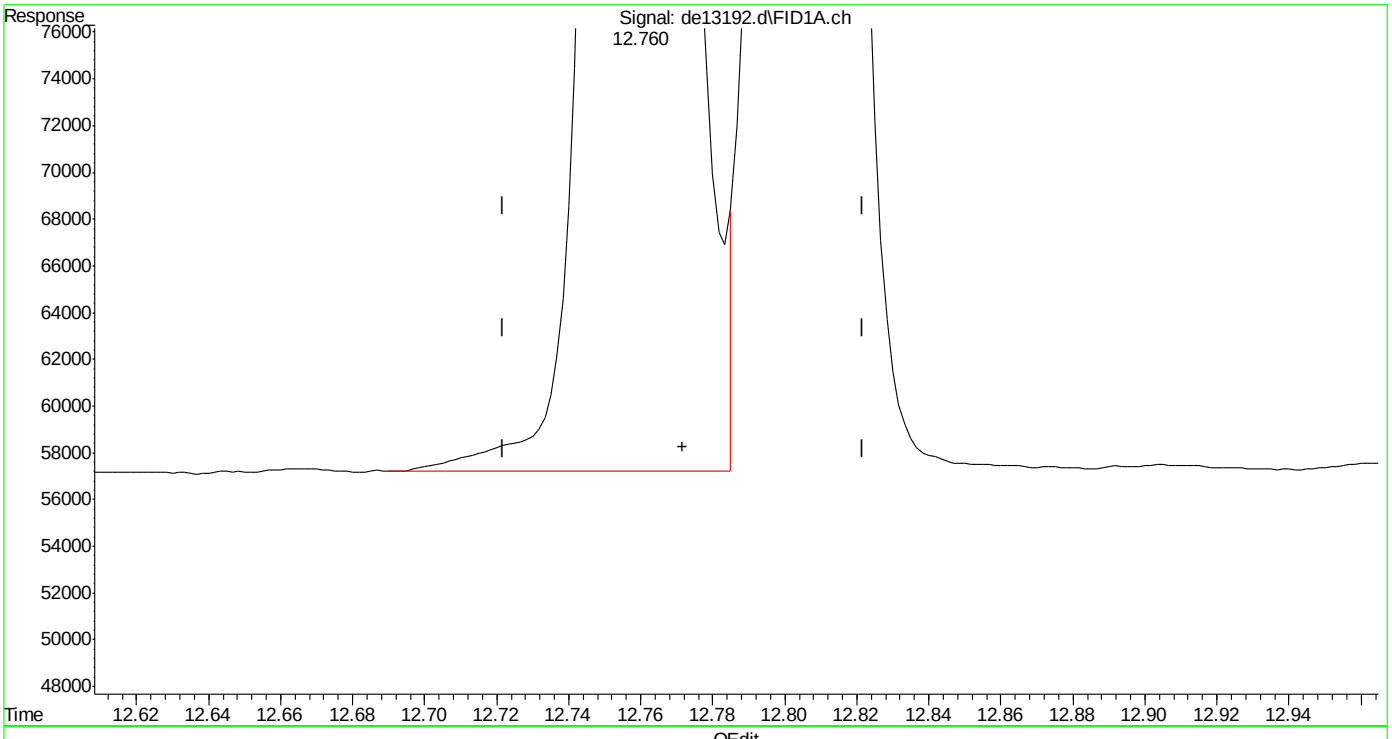
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.760min 2.018 µg/ml
response 198598

(+) = Expected Retention Time

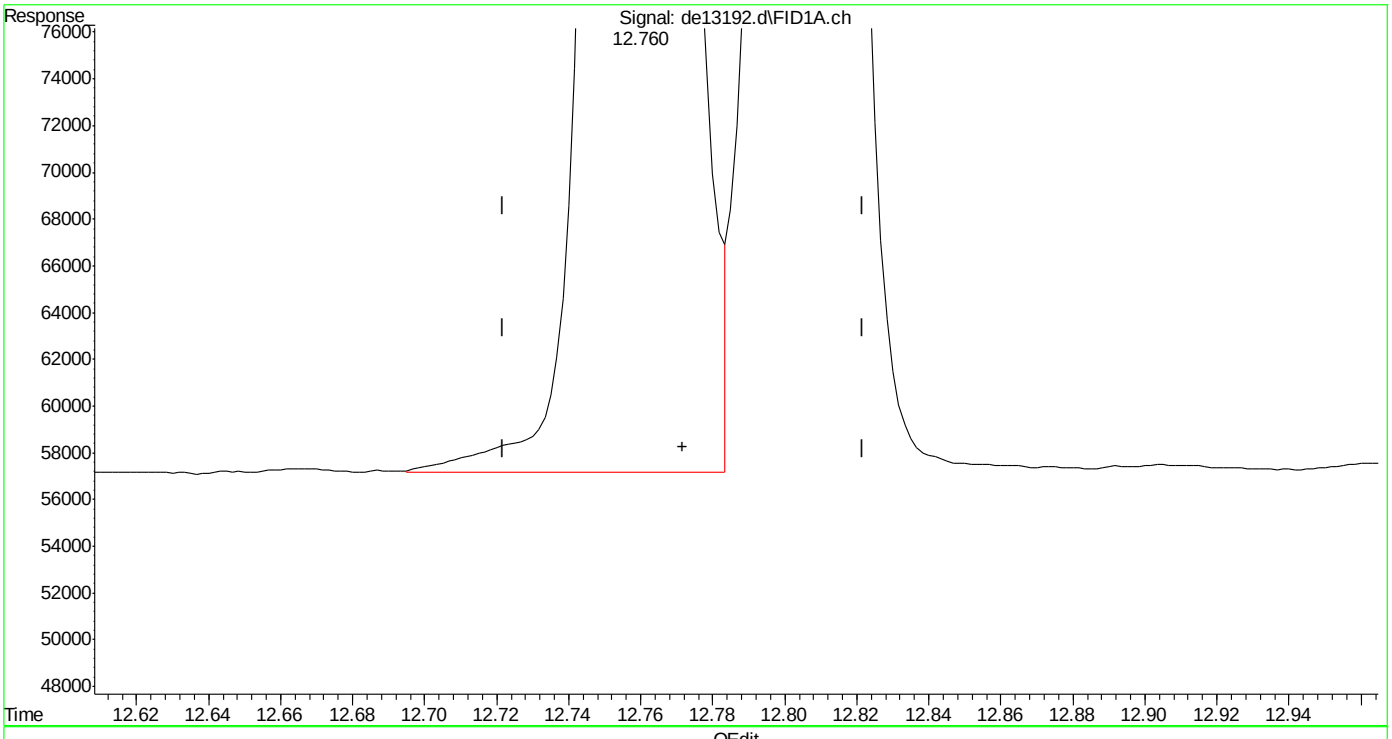
SGS ACCUTEST MC45969

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

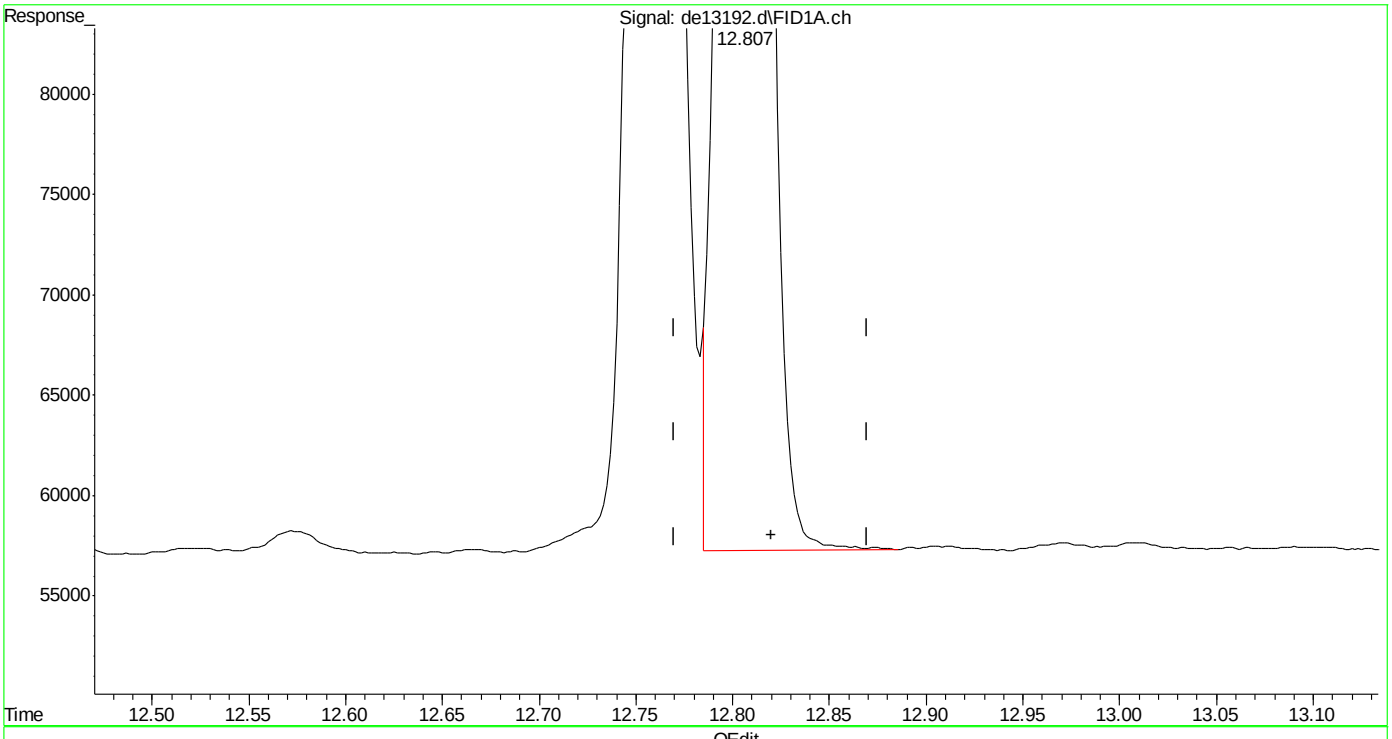
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.807min 1.977 µg/ml
response 196356

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:39:49 2016

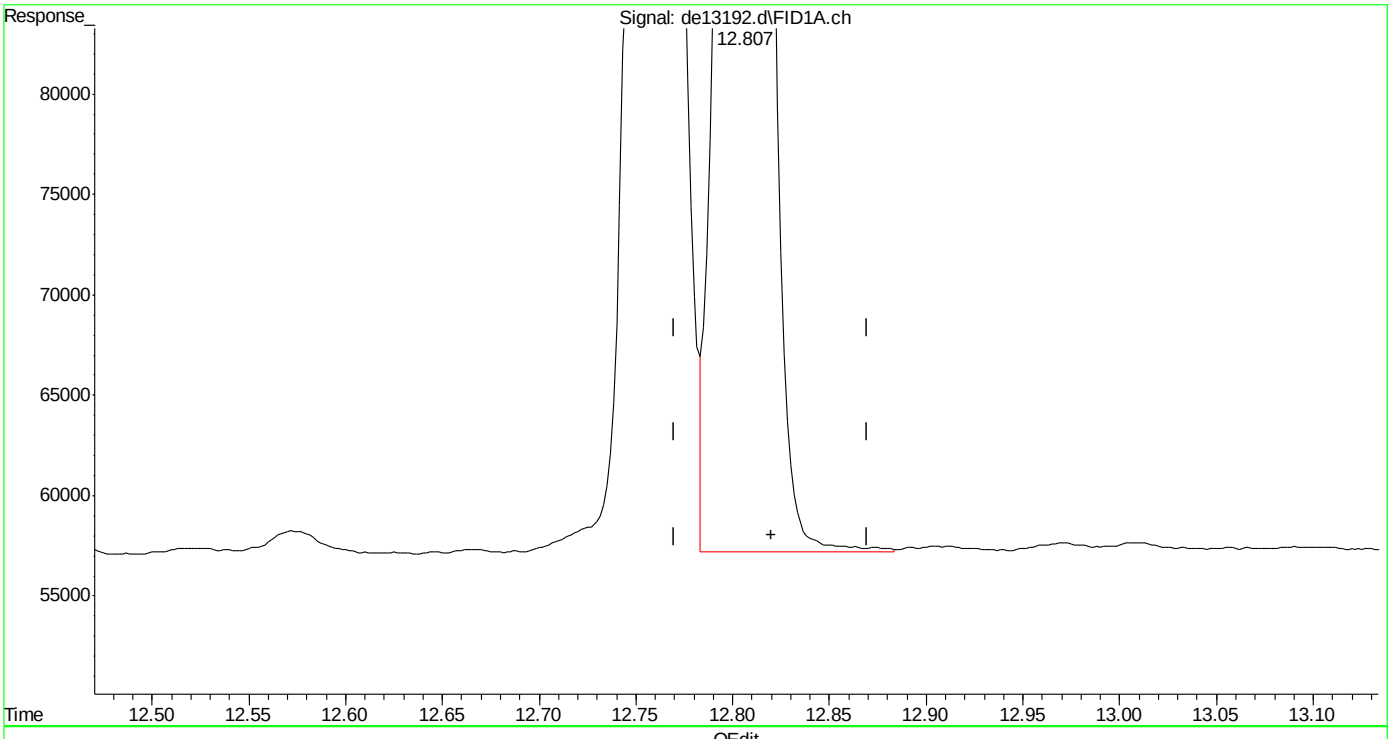
SGS ACCUTEST MC45969

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

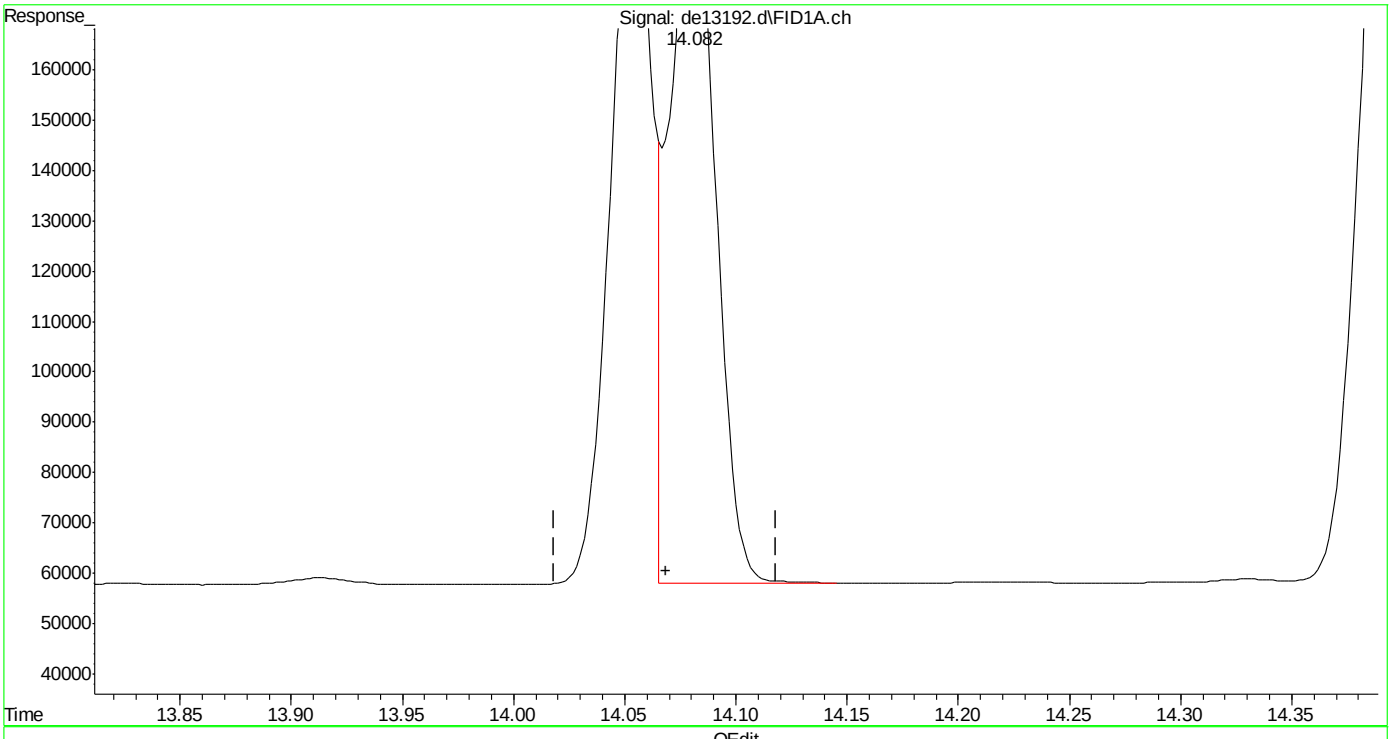
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.082min 1.990 µg/ml
response 202408

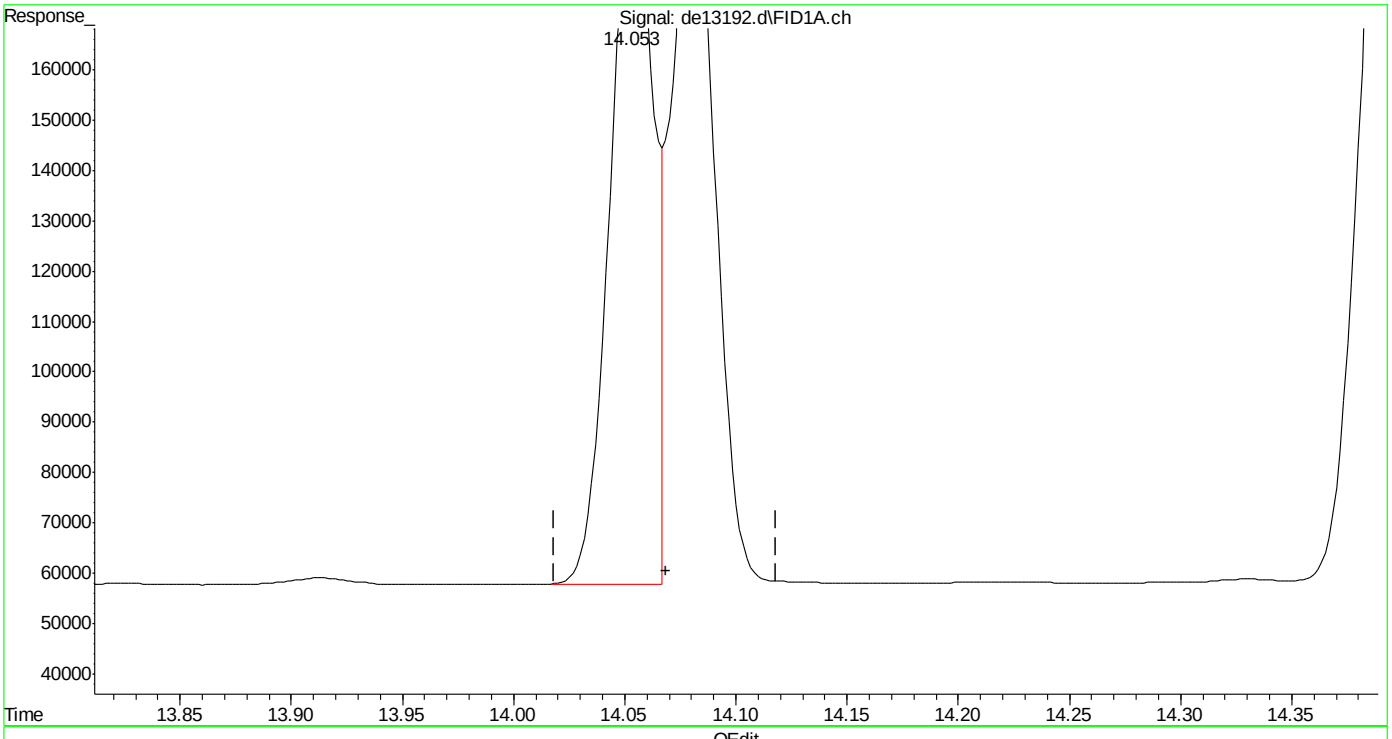
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.053min 1.943 µg/ml m
response 197572

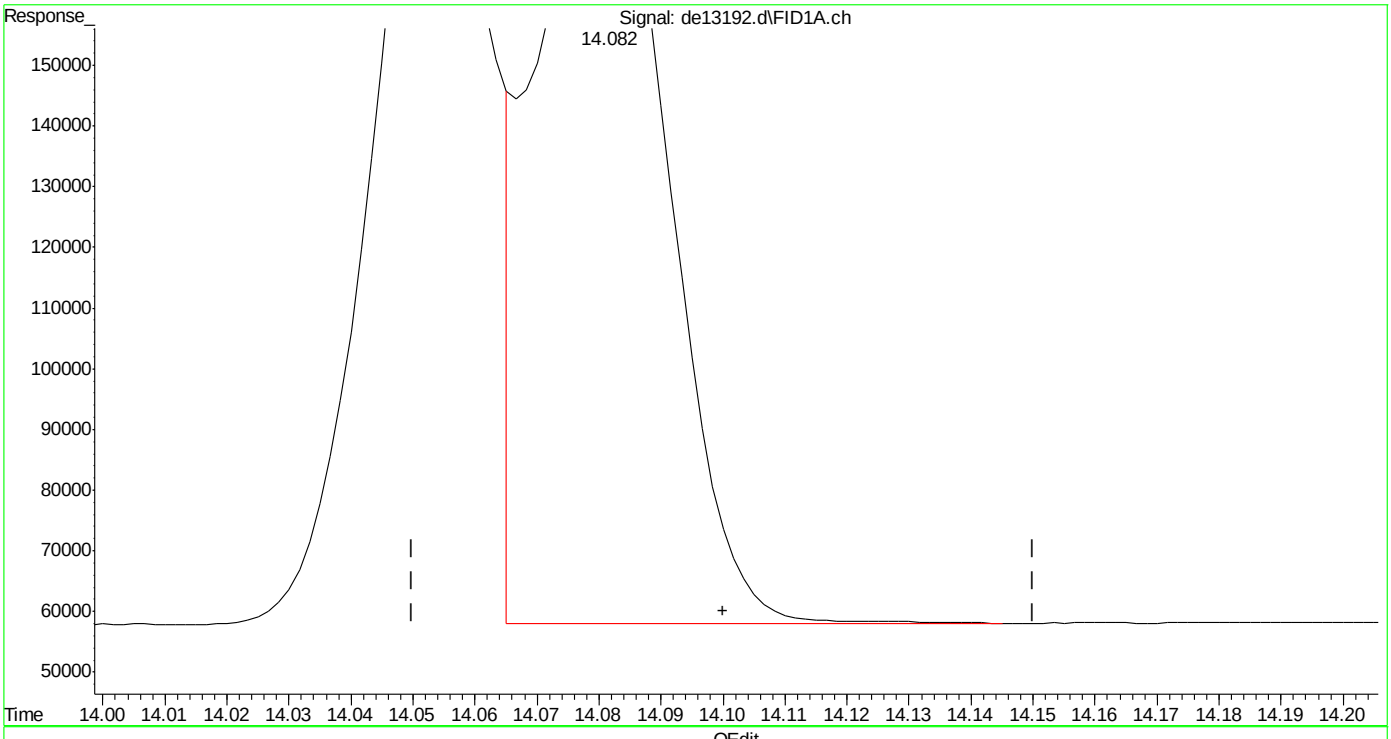
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.082min 2.077 µg/ml
response 202408

(+) = Expected Retention Time

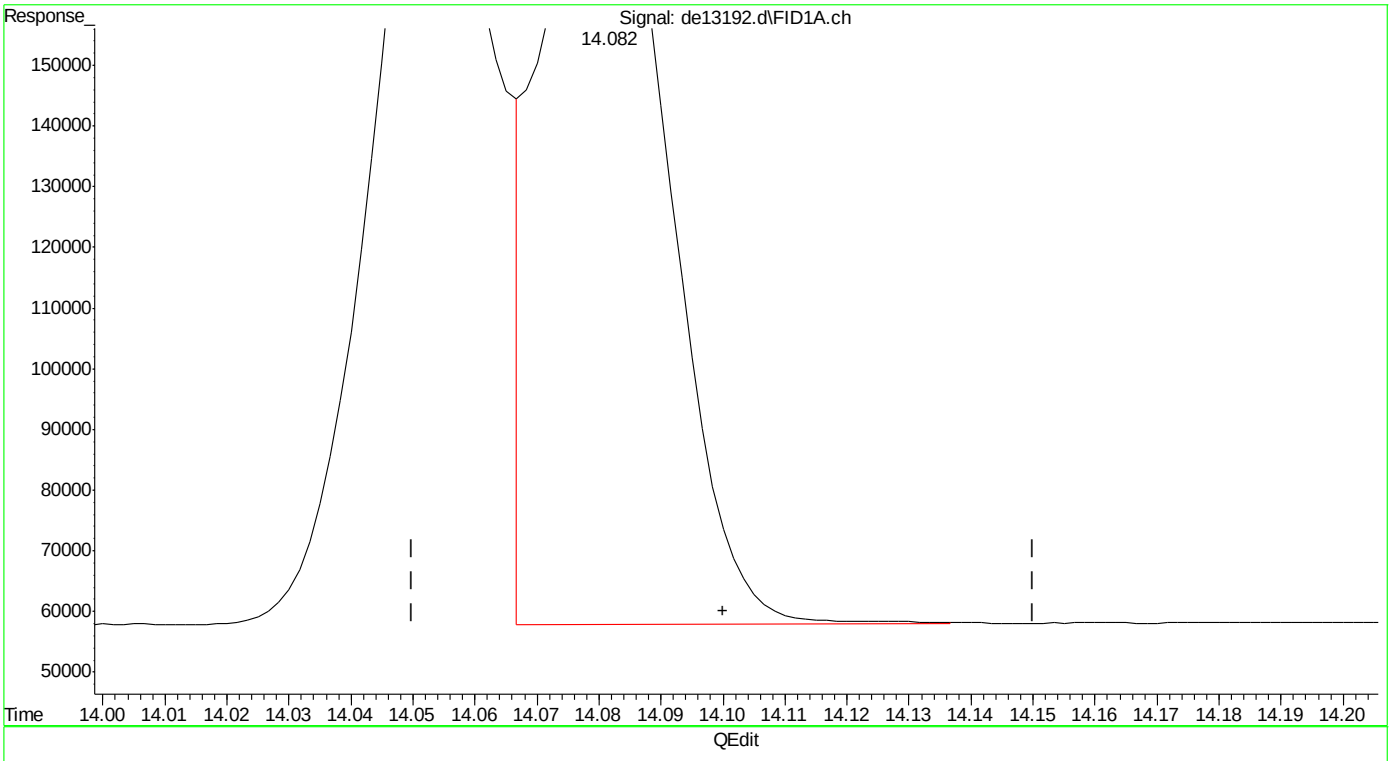
SGS ACCUTEST MC45969

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

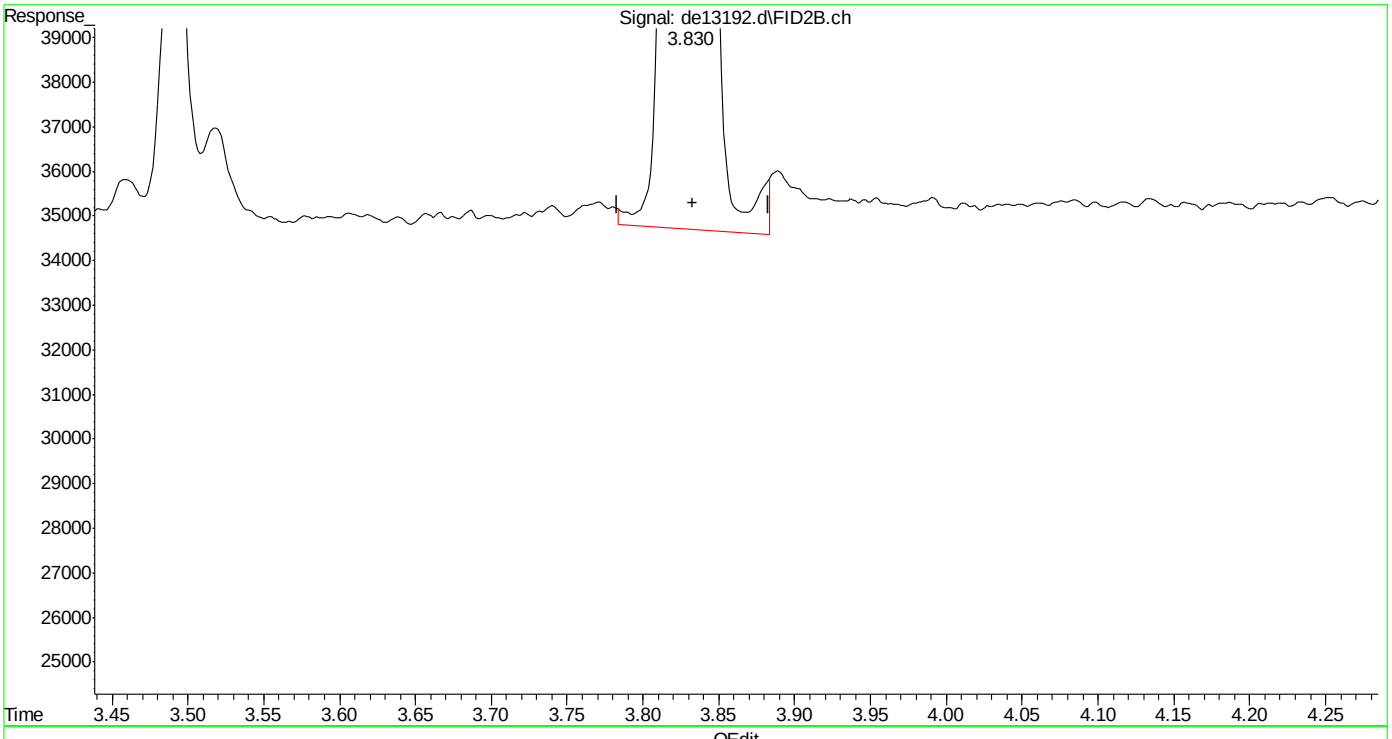
SGS ACCUTEST MC45969

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

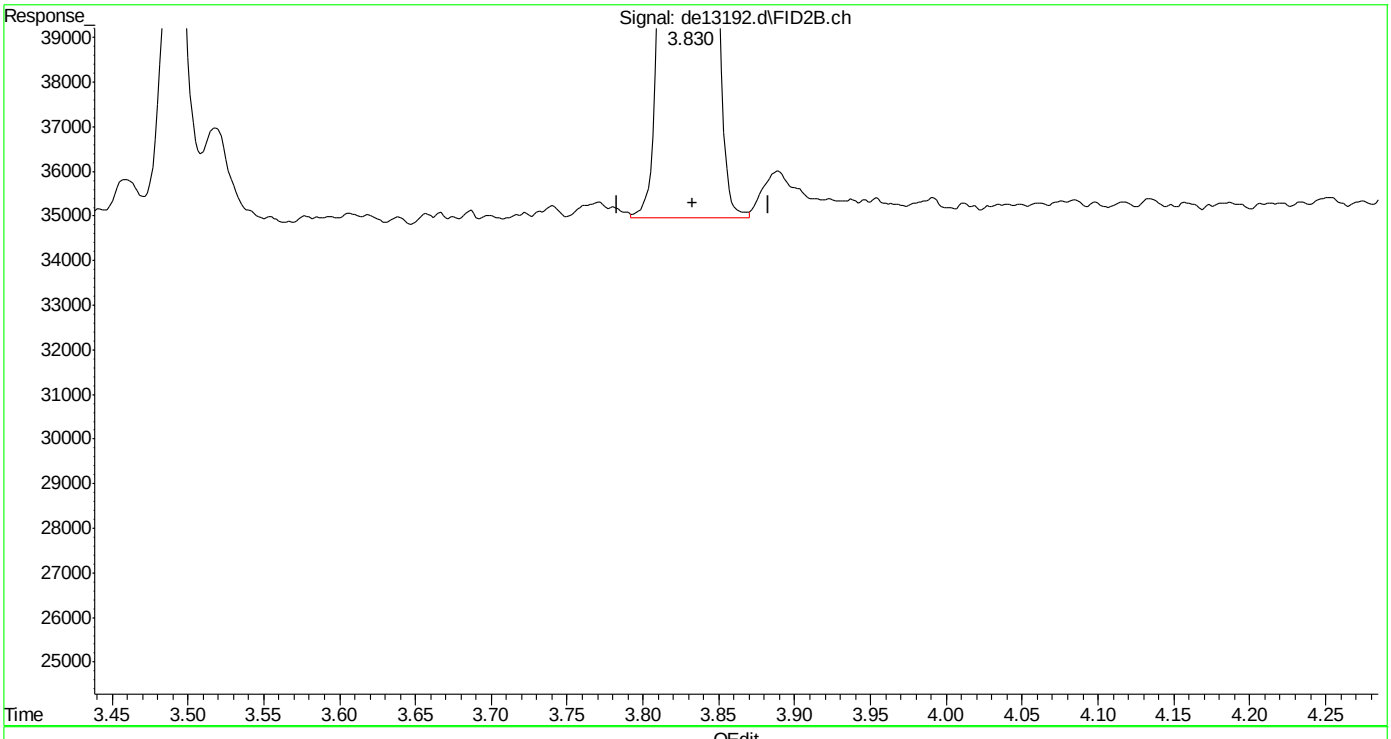
SGS ACCUTEST MC45969

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

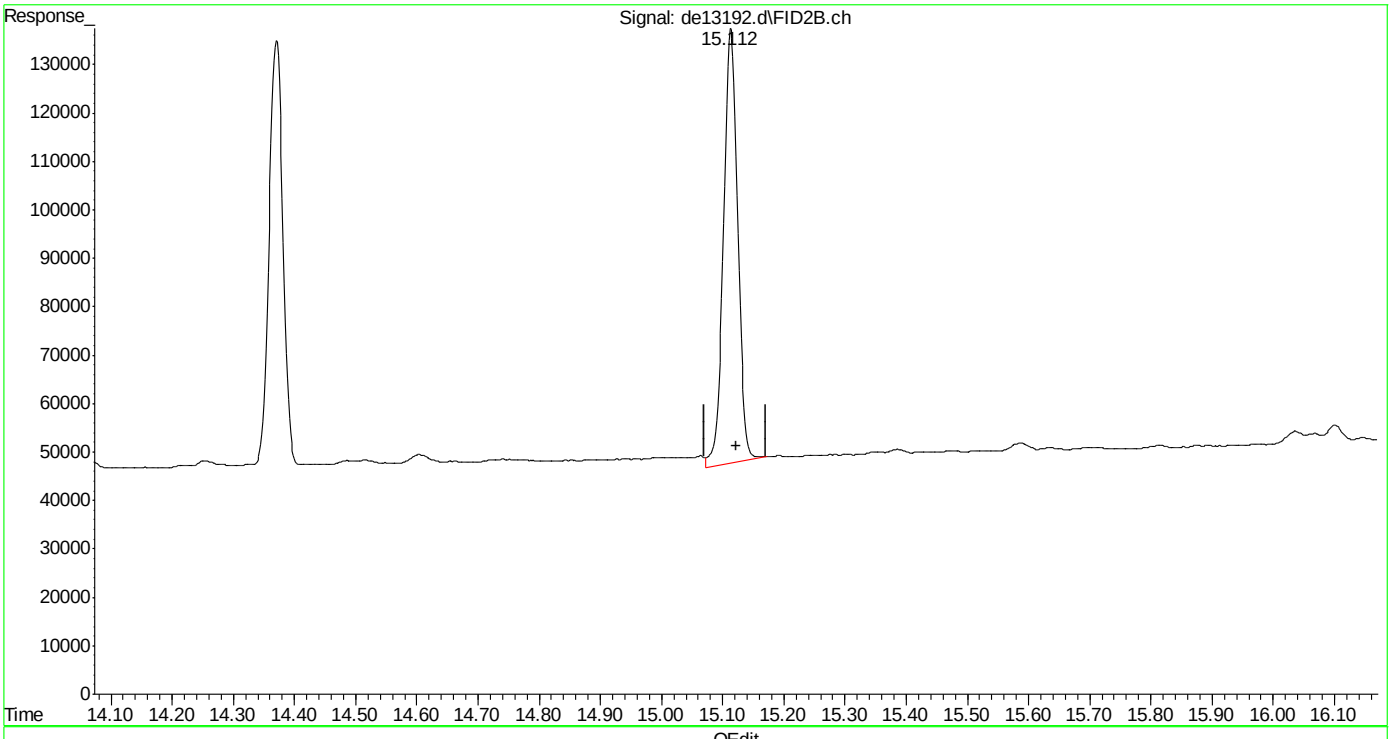
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.122min 2.133 µg/ml
response 145740

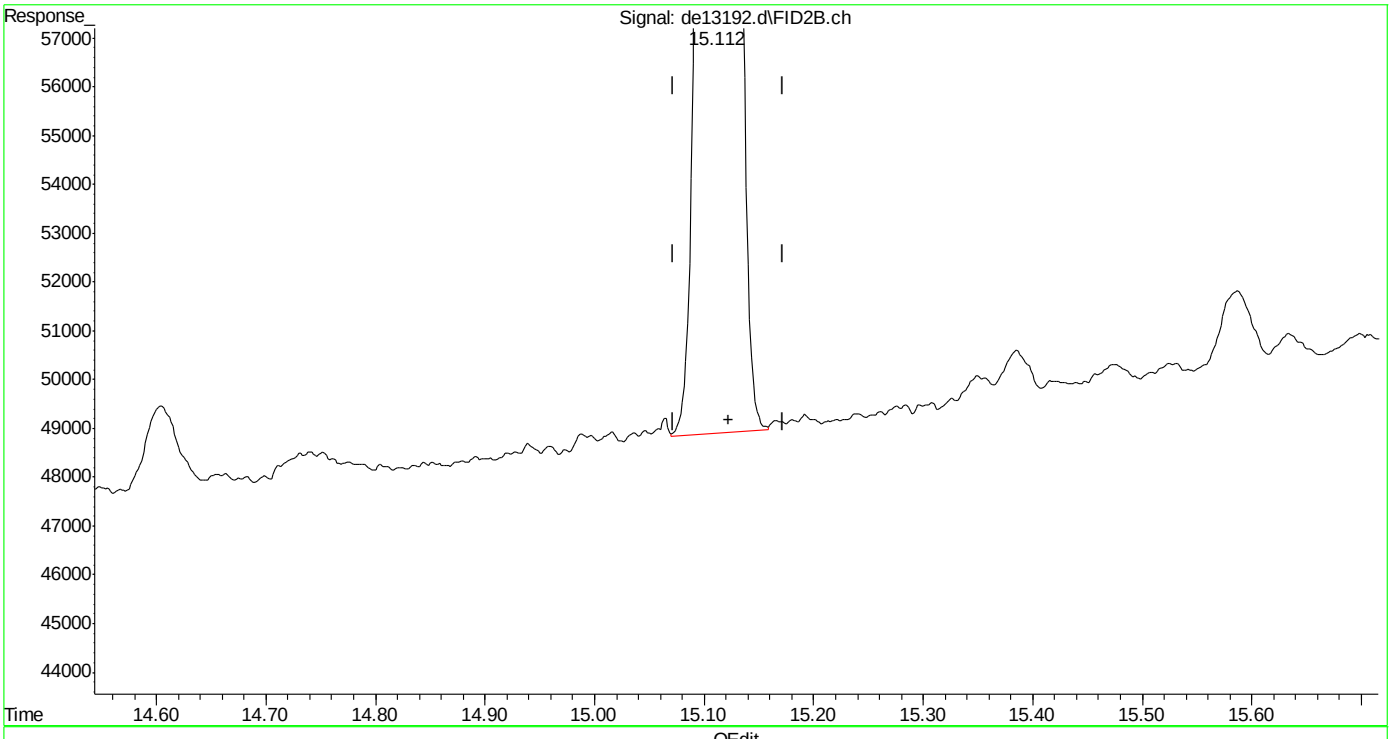
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.122min 2.037 µg/ml m
response 139197

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:41:28 2016

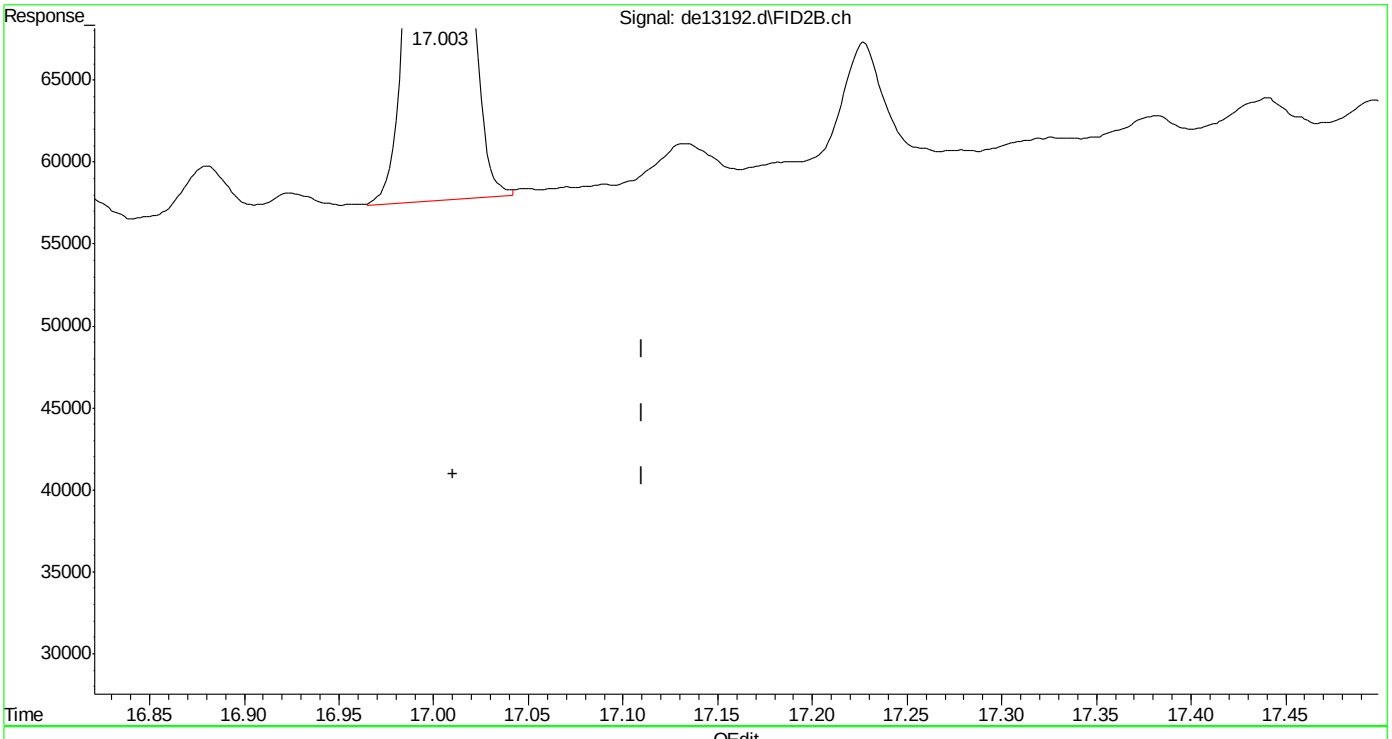
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(41) c-36 (h)
17.010min 1.930 µg/ml m
response 119416

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:41:37 2016 Page: 1

SGS ACCUTEST MC45969

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.

9.4.3

9

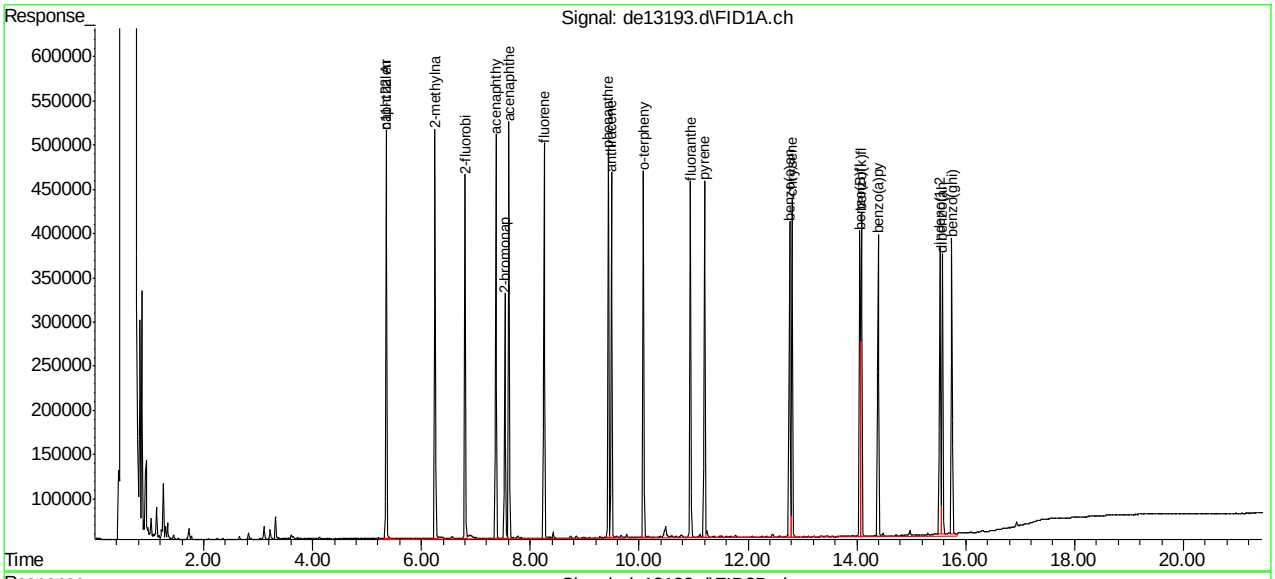
SGS ACCUTEST MC45969

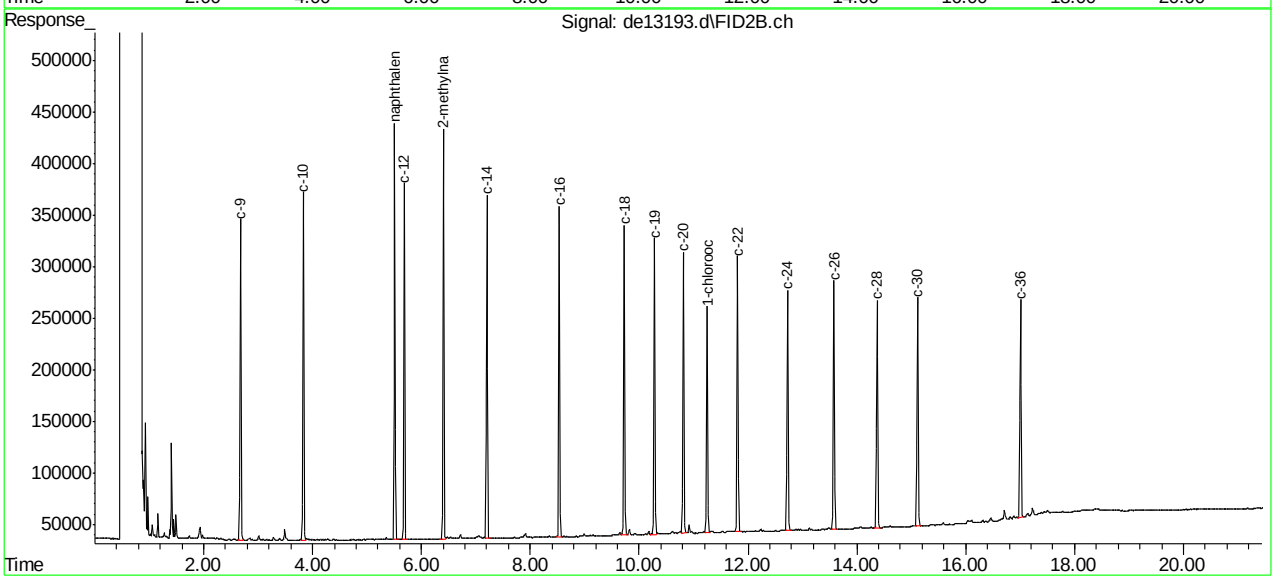
Quantitation Report (QT Reviewed)

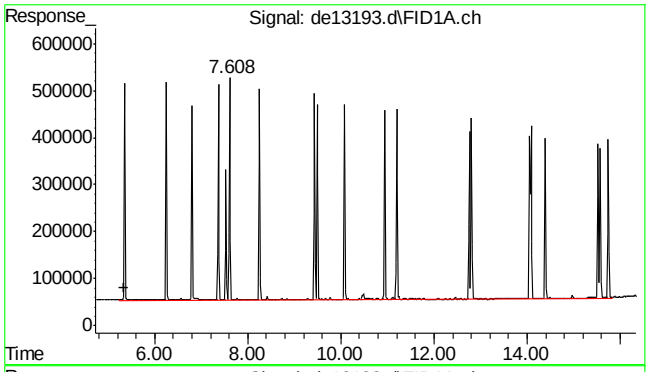
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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

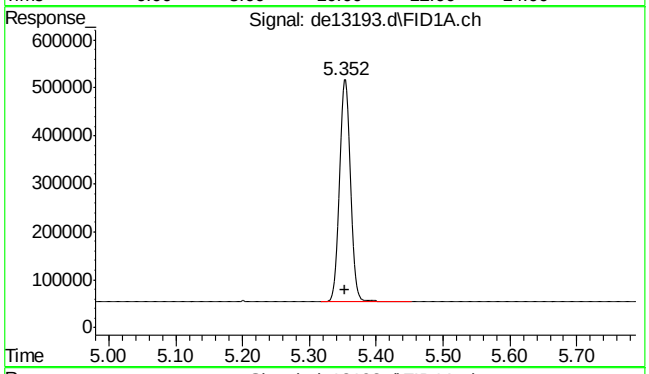






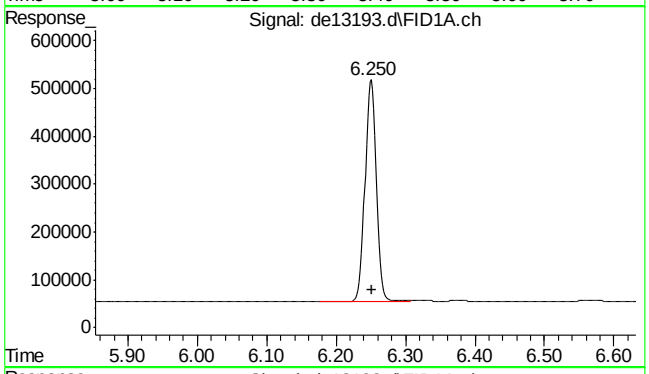
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



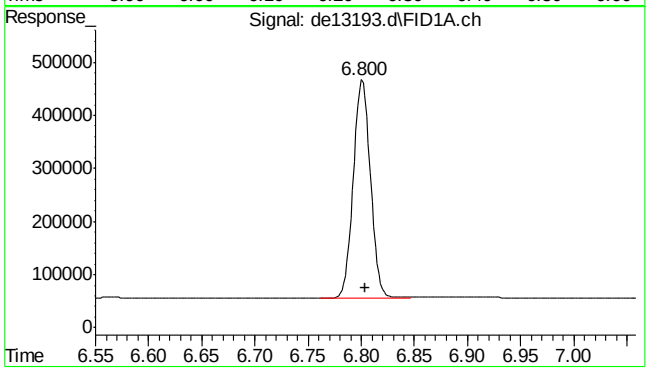
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

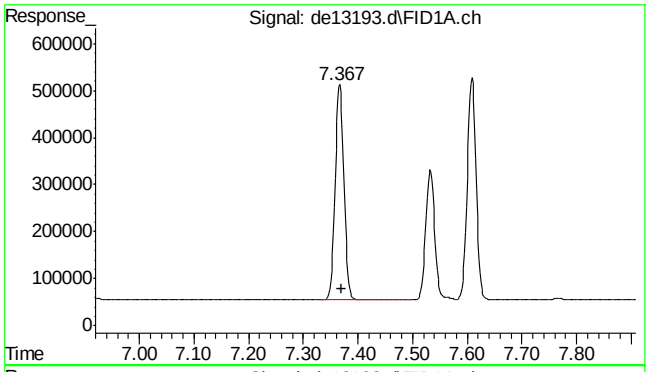
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



#4 2-fluorobiphenyl

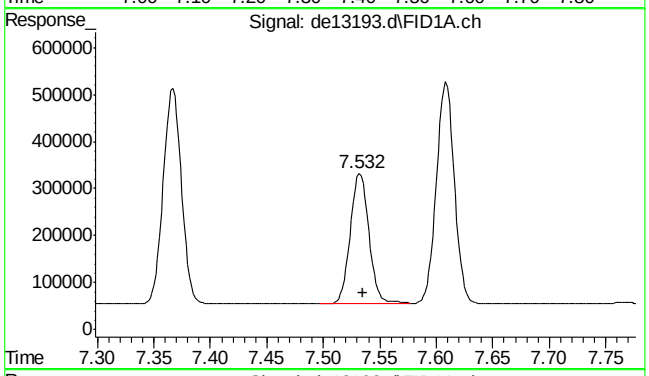
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

SGS ACCUTEST MC45969



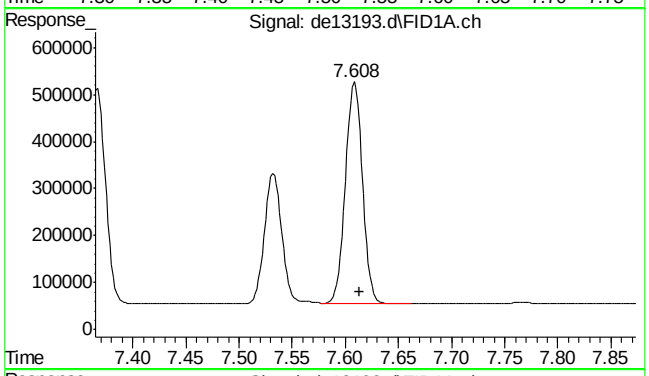
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



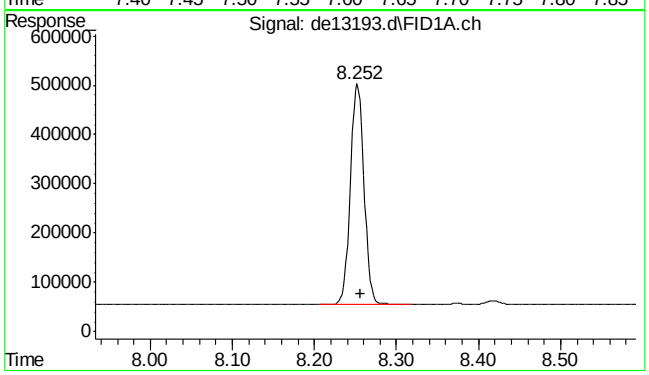
#6 2-bromonaphthalene

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



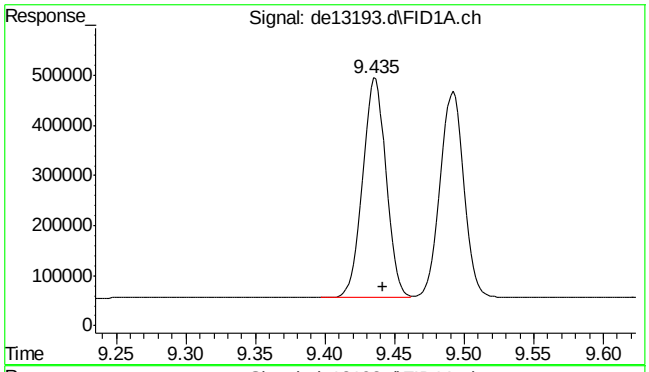
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml

9.4.3

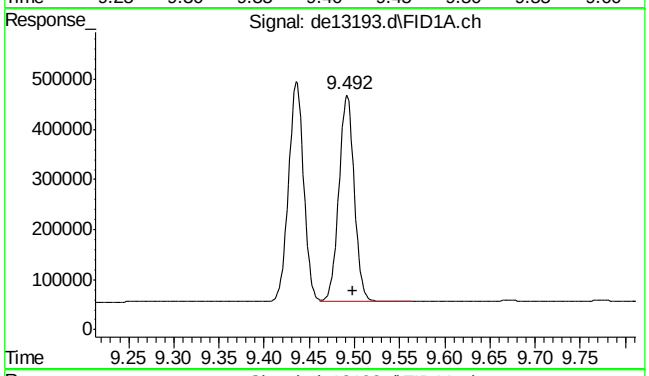
9

SGS ACCUTEST MC45969



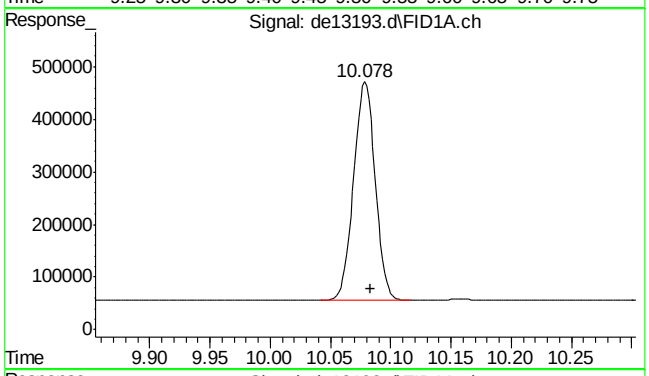
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



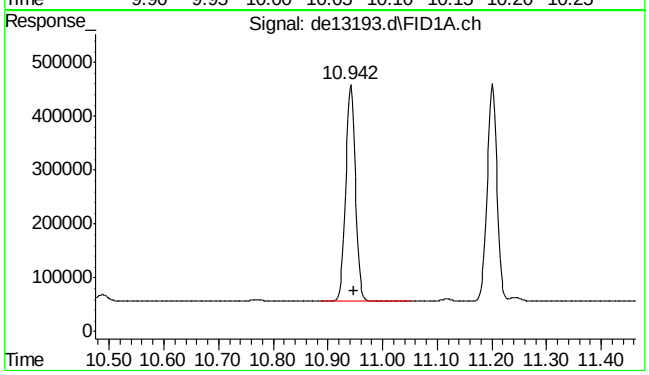
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



#11 o-terphenyl

R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



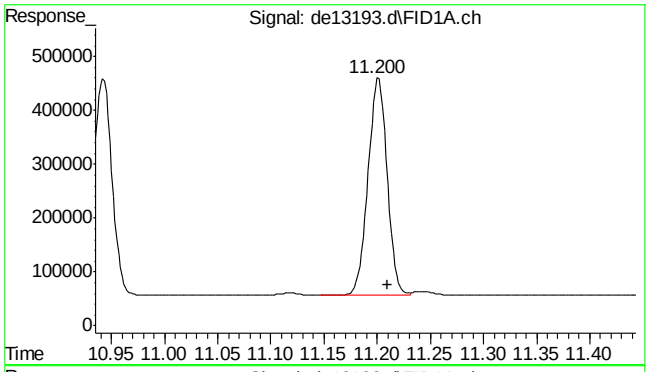
#12 fluoranthene

R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml

9.4.3

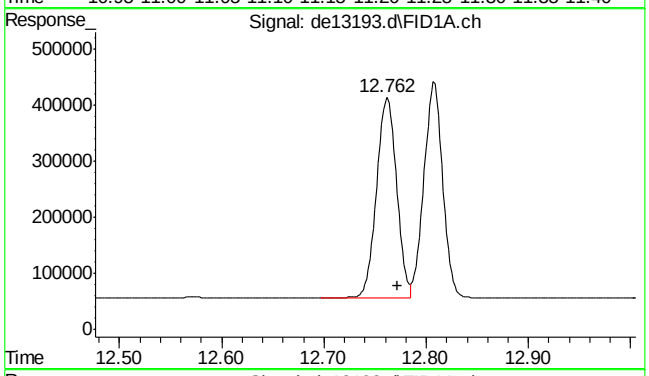
9

SGS ACCUTEST MC45969



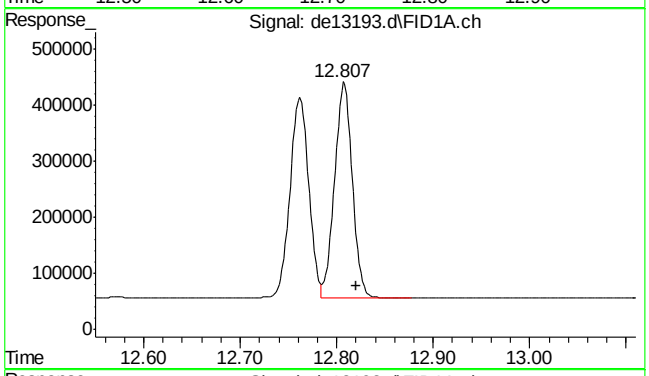
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



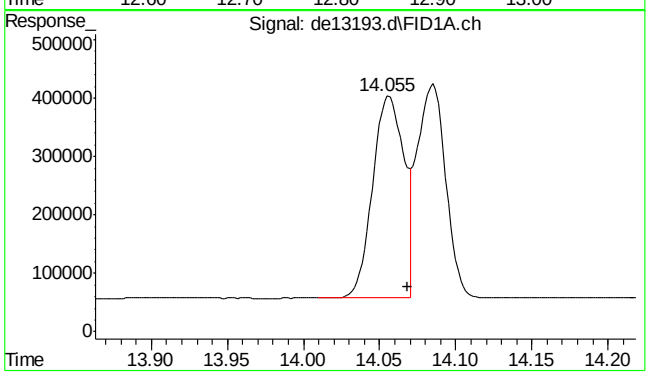
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

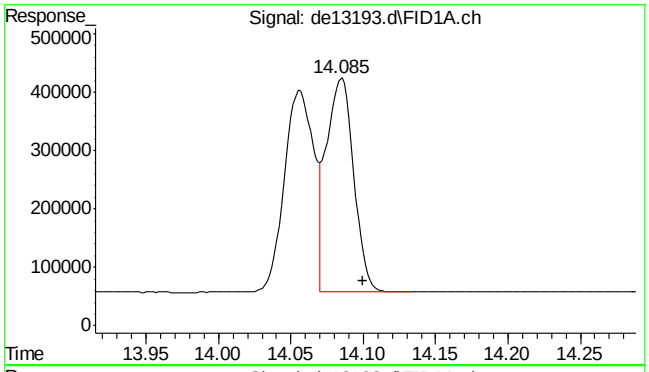
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

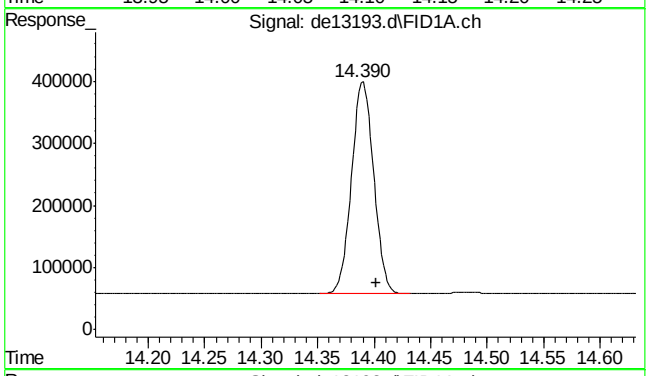
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC45969



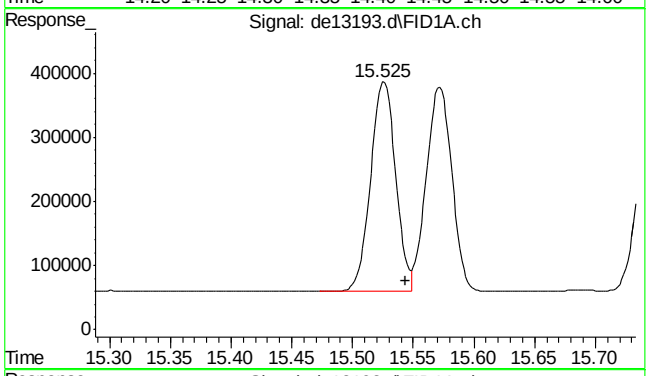
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



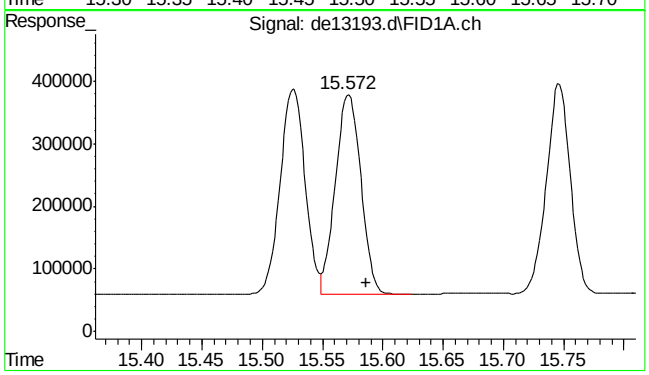
#18 benzo(a)pyrene

R.T.: 14.390 min
Delta R.T.: -0.012 min
Response: 464216
Conc: 4.85 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.525 min
Delta R.T.: -0.018 min
Response: 472235
Conc: 4.82 µg/ml m



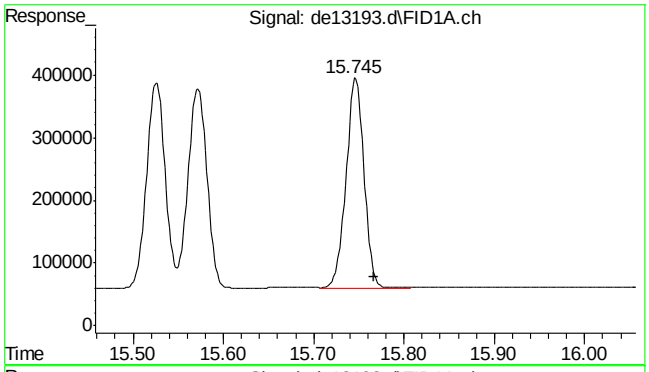
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.4.3

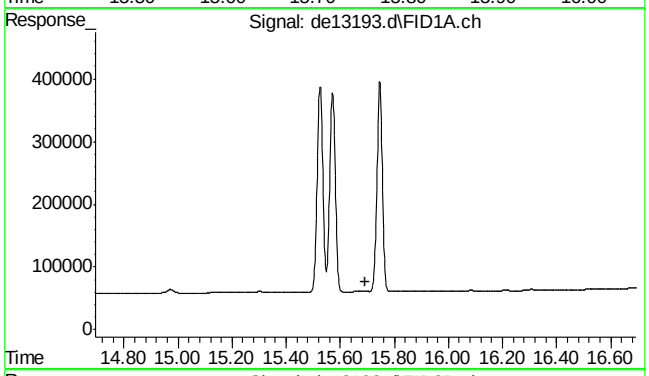
9

SGS ACCUTEST MC45969



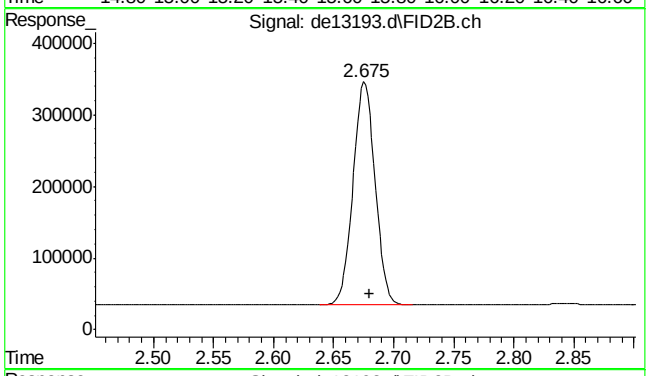
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



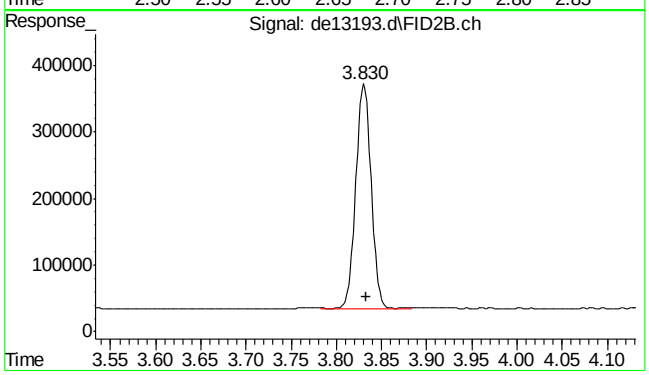
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

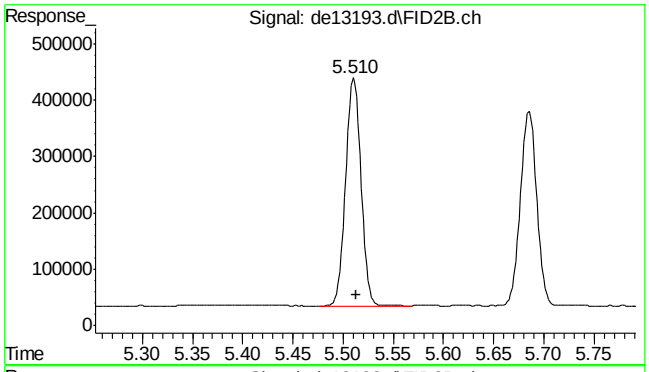
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 396890
Conc: 5.30 µg/ml m



#26 c-10

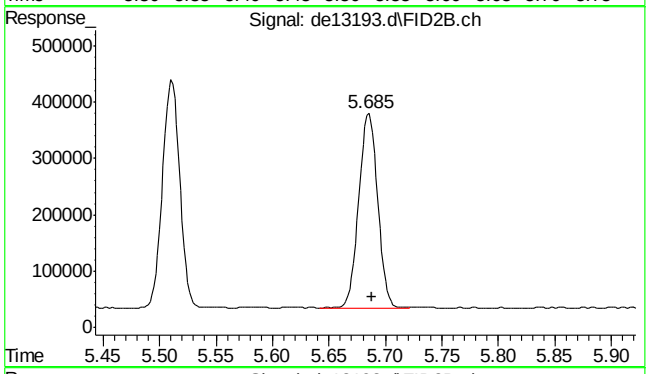
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

SGS ACCUTEST MC45969



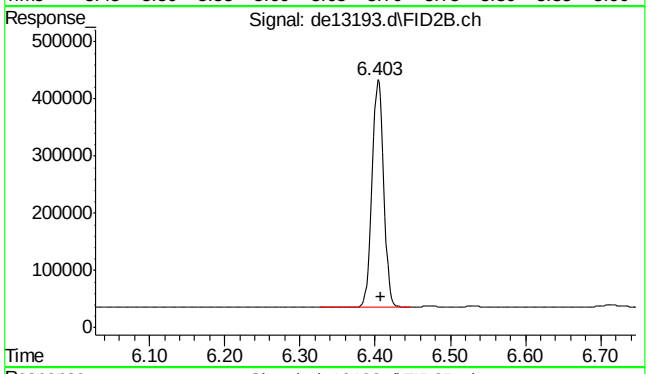
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



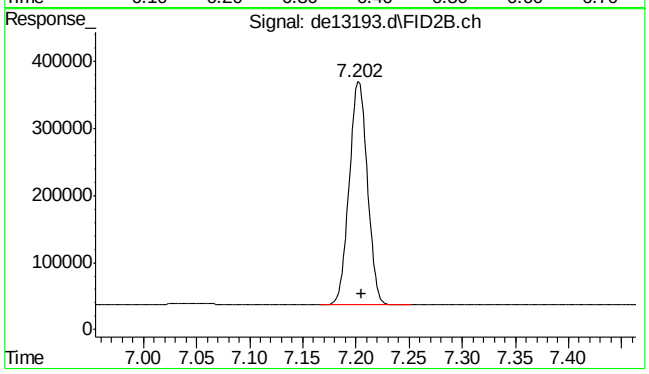
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 398273
Conc: 5.30 µg/ml



#29 2-methylnaphthalene #2

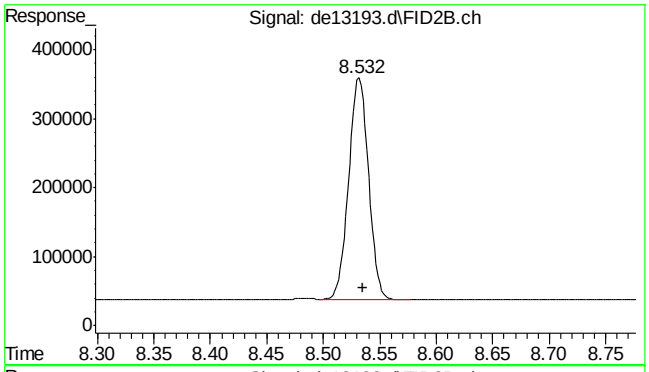
R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 429906
Conc: 5.30 µg/ml



#30 c-14

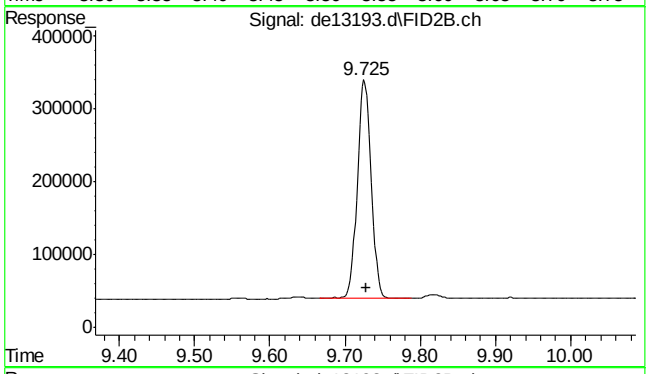
R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

SGS ACCUTEST MC45969



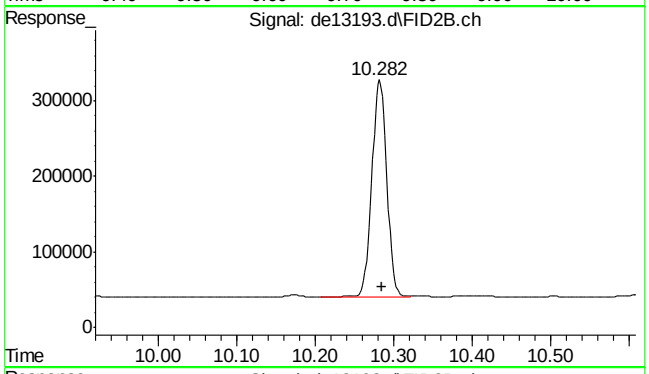
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



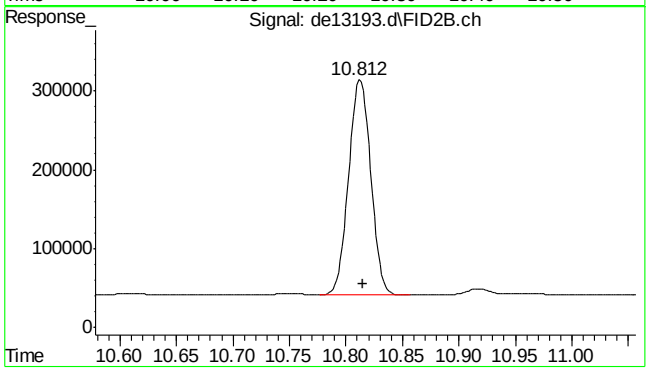
#32 c-18

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



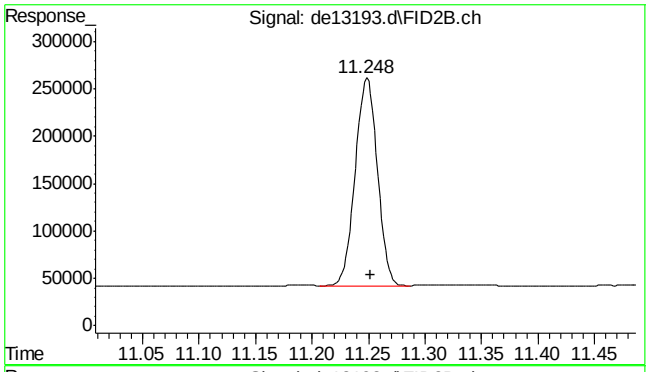
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.4.3

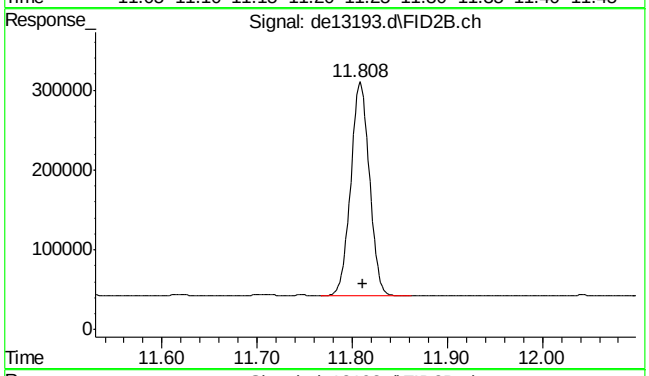
9

SGS ACCUTEST MC45969



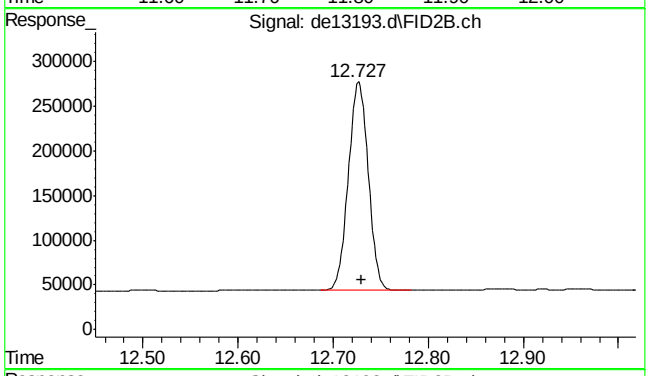
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



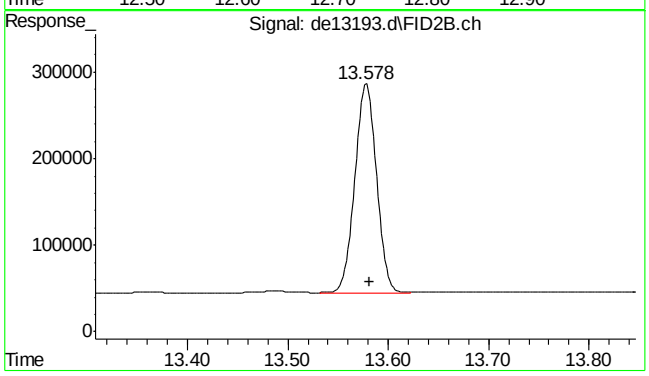
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 364434
Conc: 5.22 µg/ml



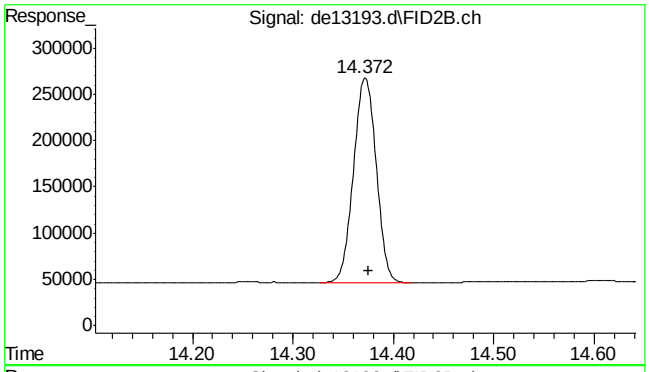
#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 339349
Conc: 5.10 µg/ml



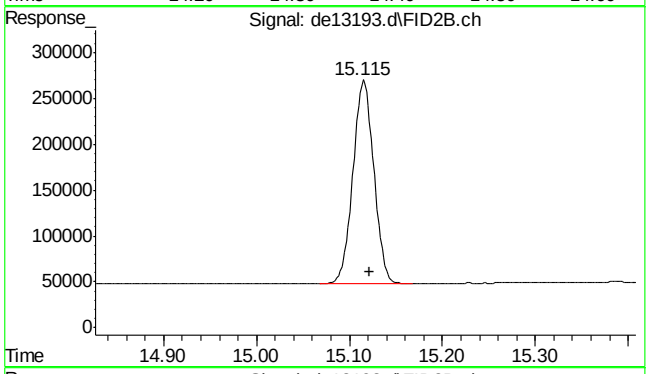
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml



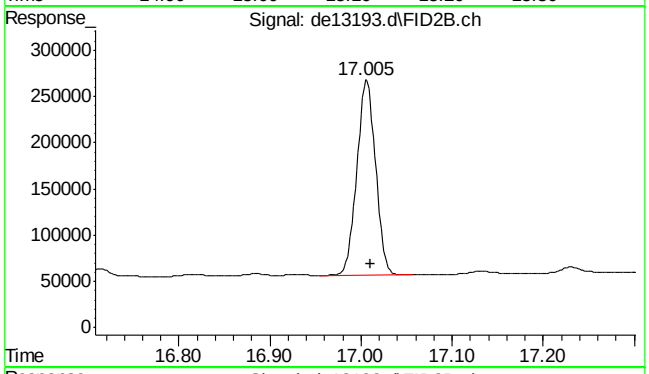
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



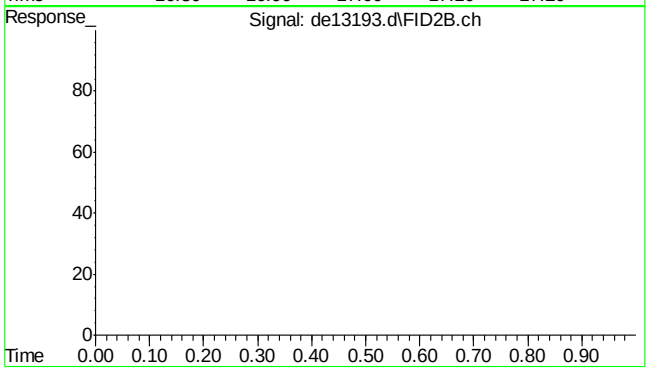
#40 c-30

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



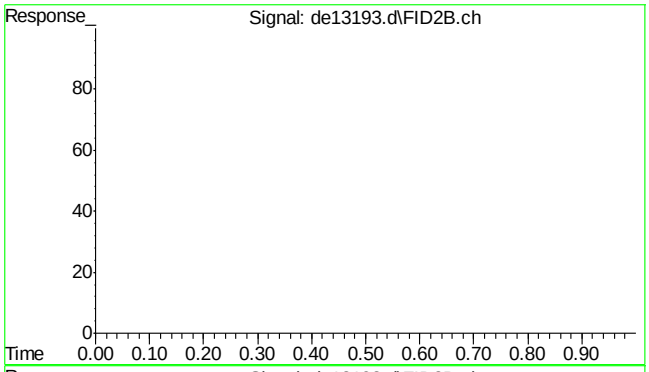
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.3

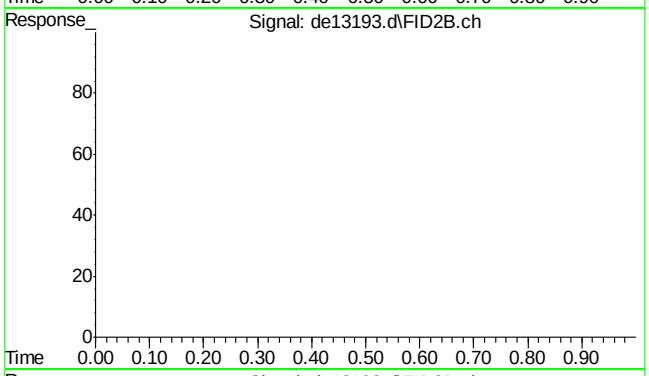
9

SGS ACCUTEST MC45969



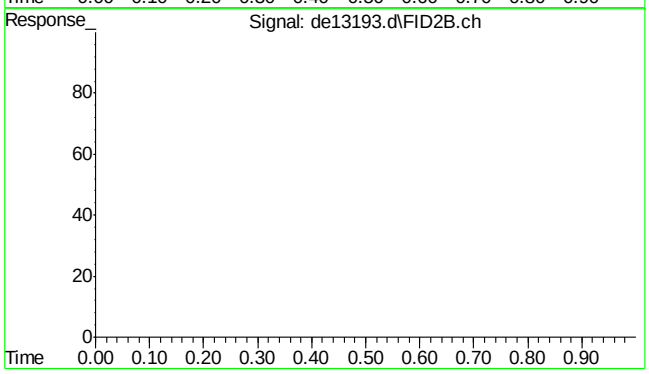
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

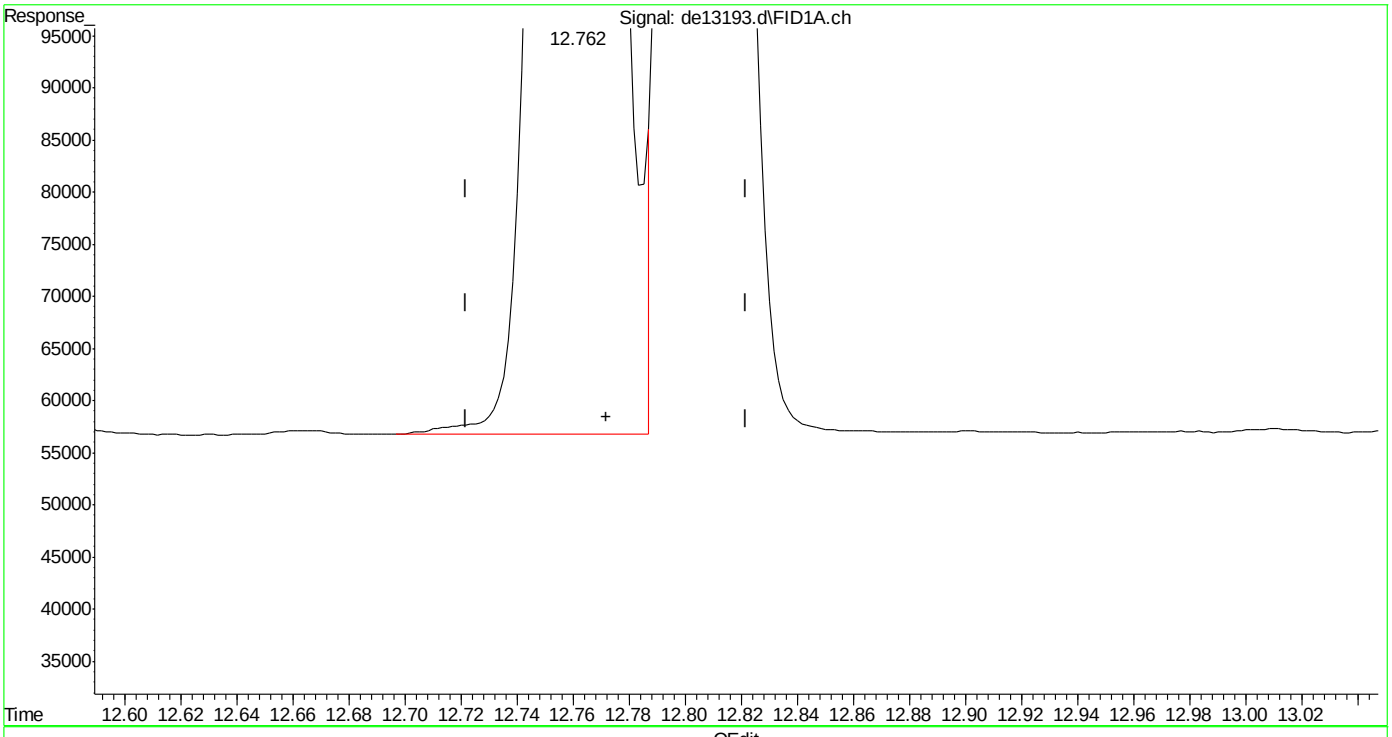
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.762min 4.949 µg/ml
response 487331

(+) = Expected Retention Time

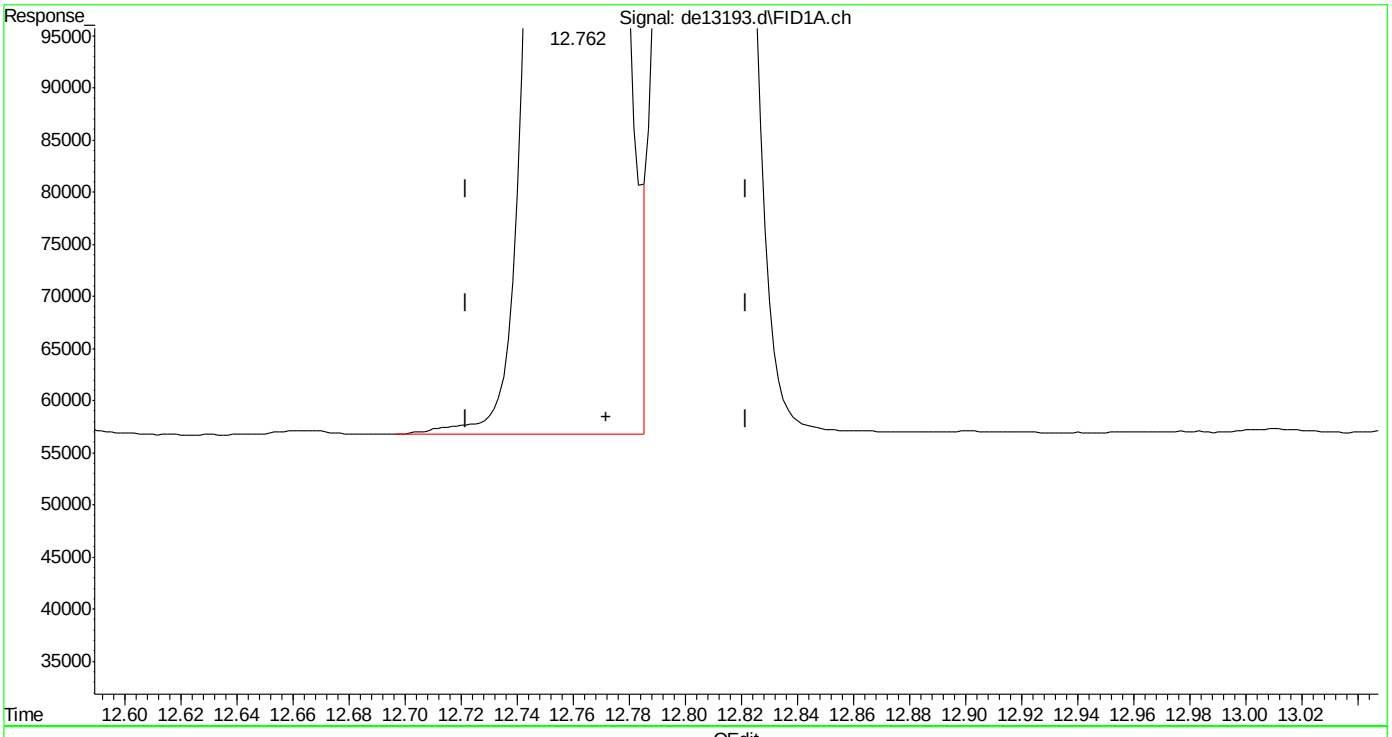
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.762min 4.921 µg/ml m
response 484563

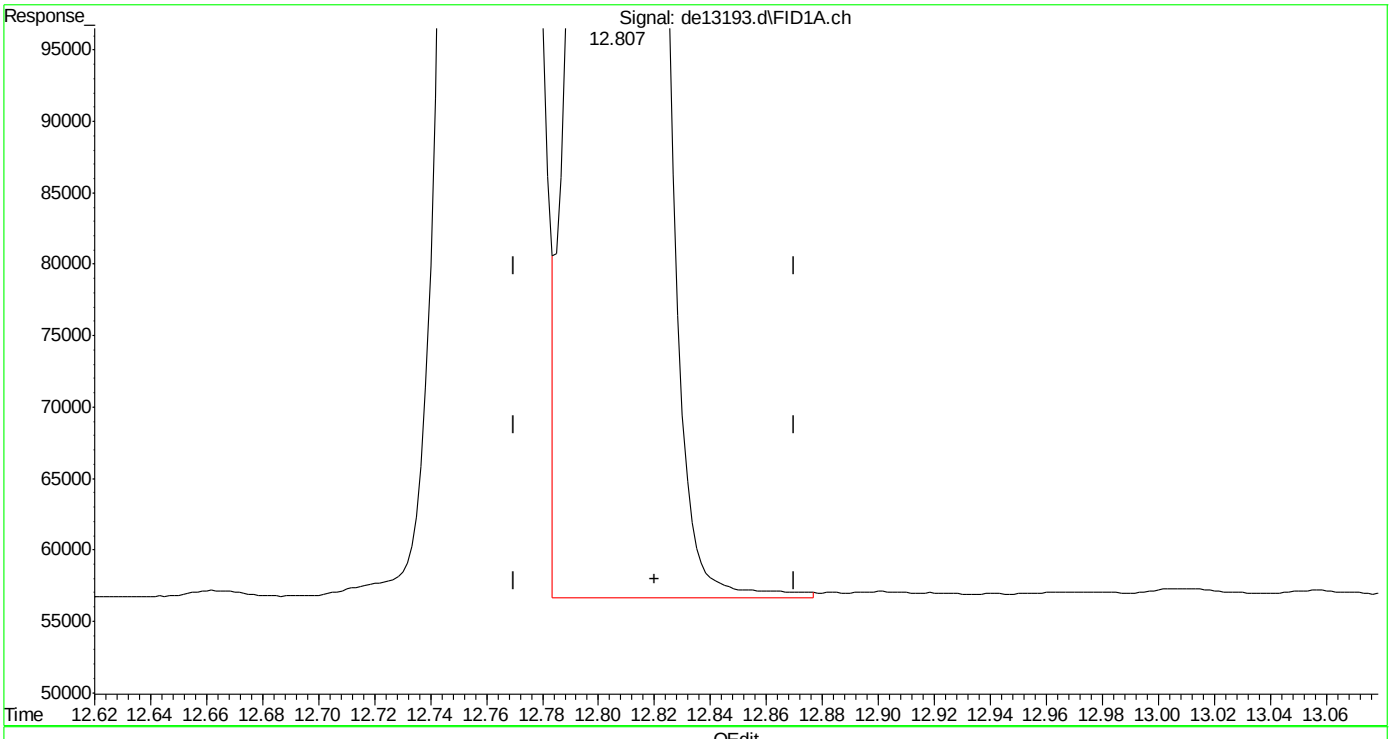
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.807min 4.923 µg/ml m
response 488834

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:43:45 2016 Page: 1

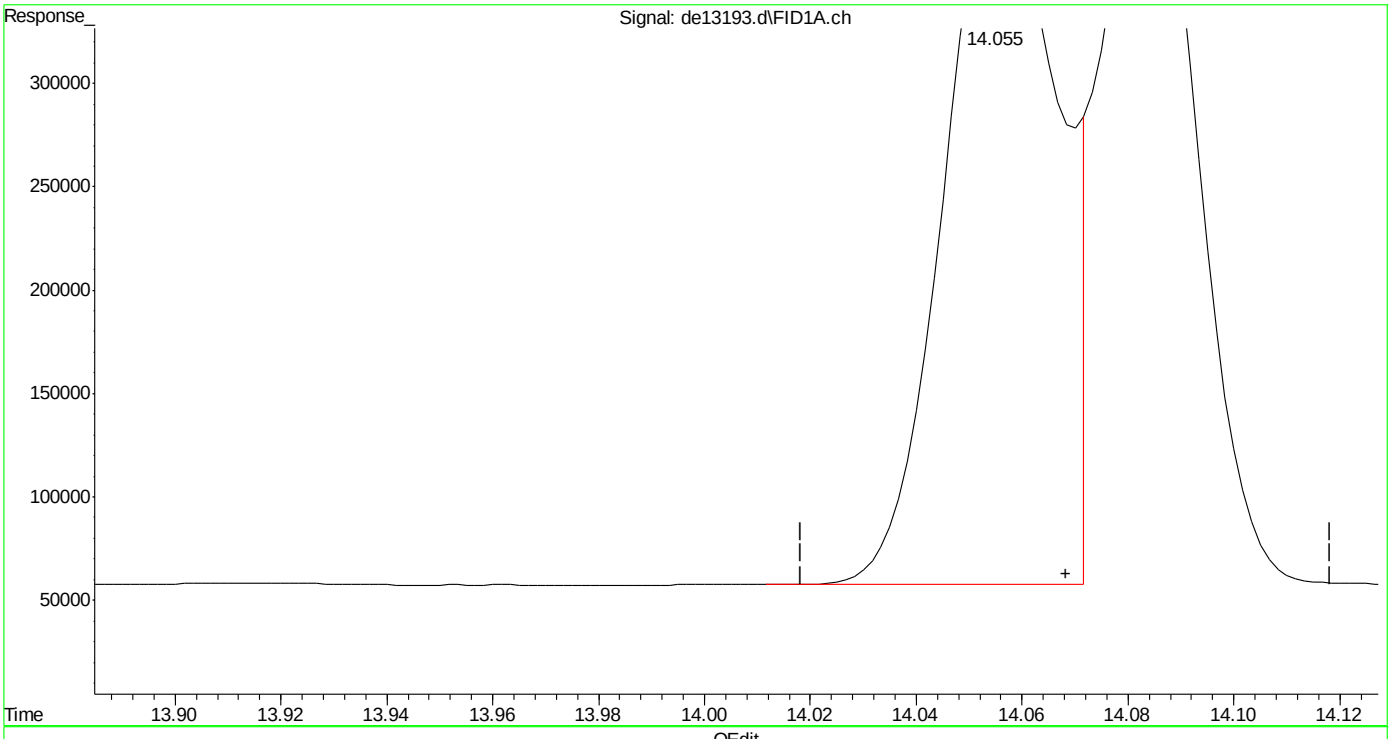
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.055min 5.155 µg/ml
response 522606

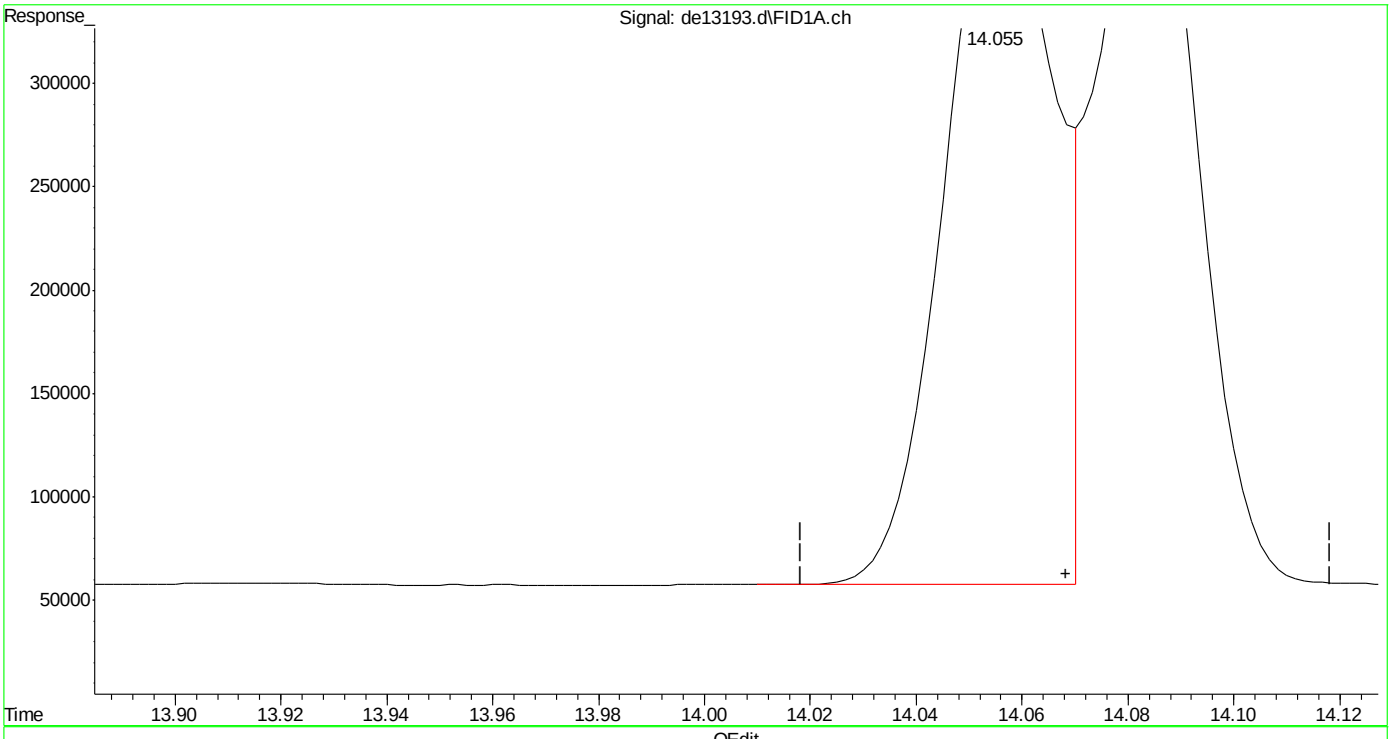
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.055min 4.931 µg/ml m
response 499942

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:57 2016

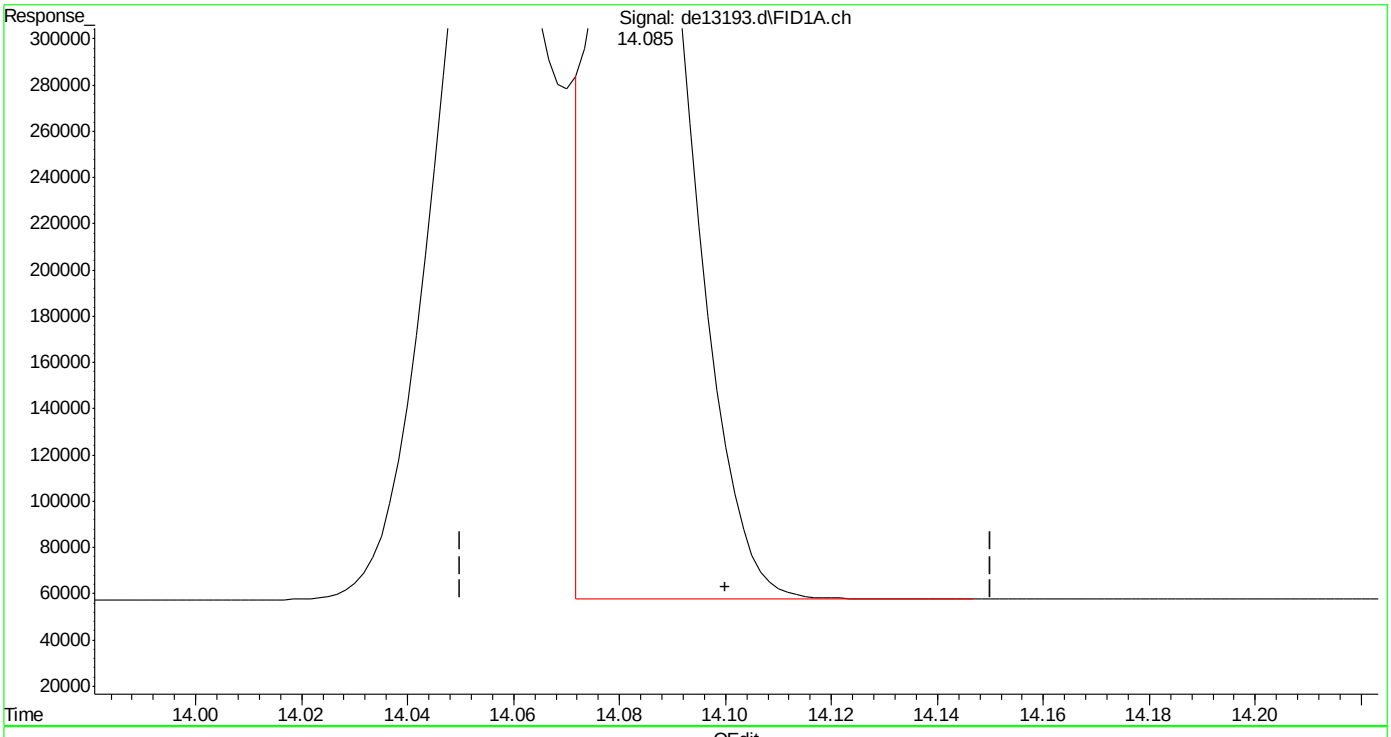
SGS ACCUTEST MC45969

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

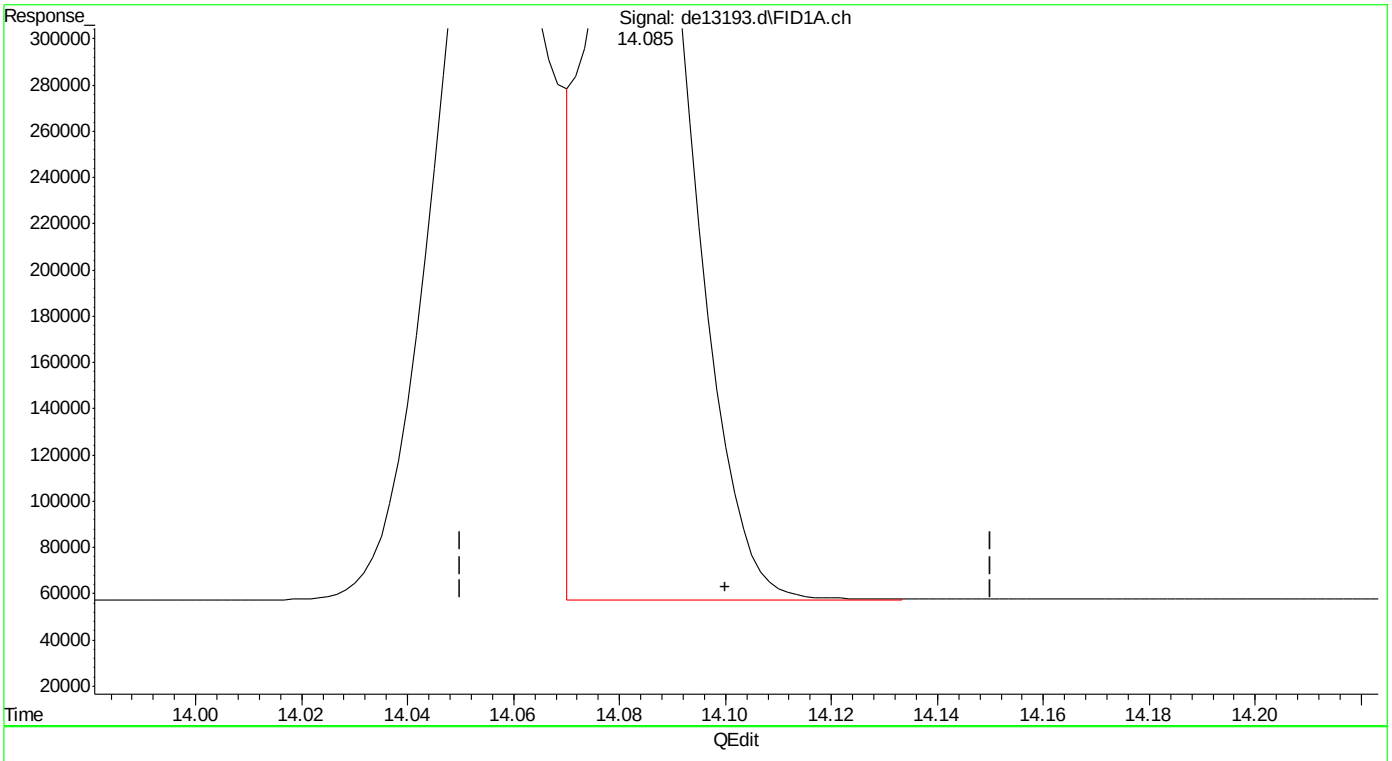
SGS ACCUTEST MC45969

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

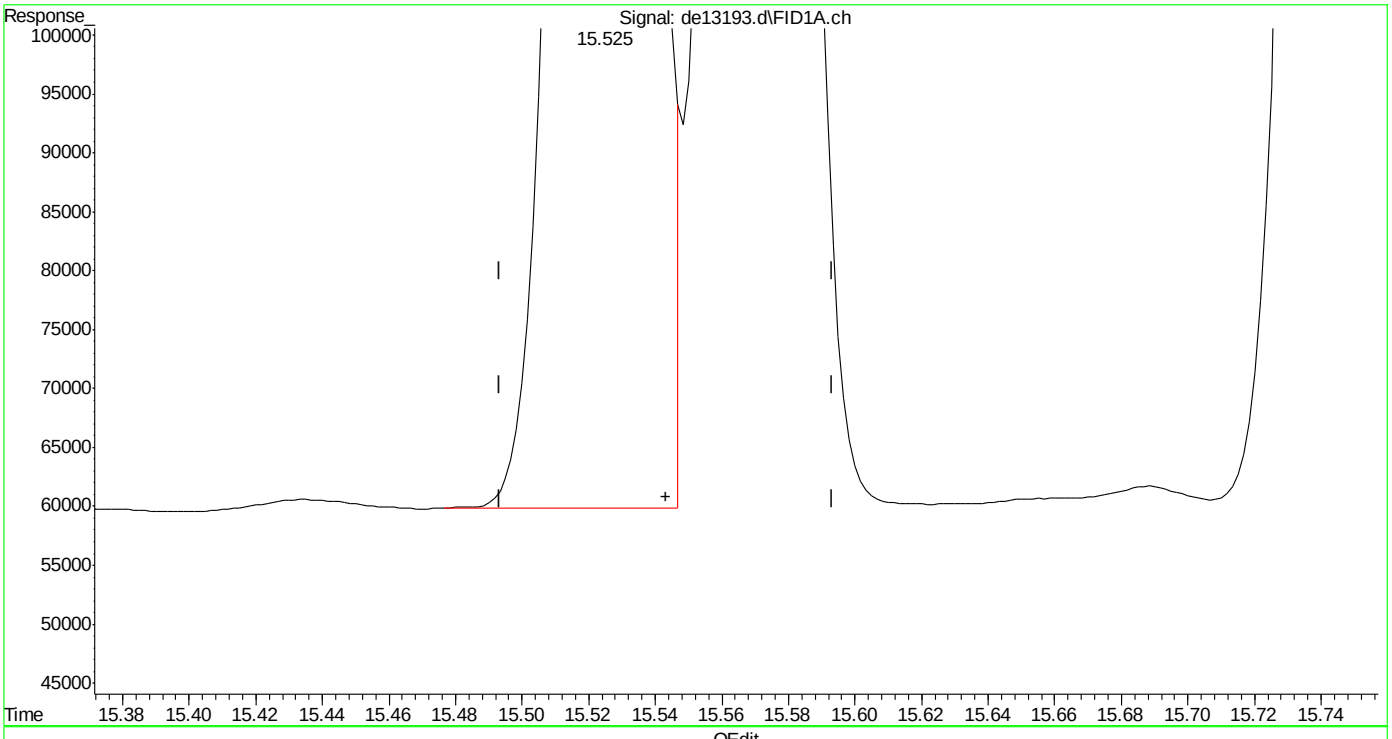
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:13 2016

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

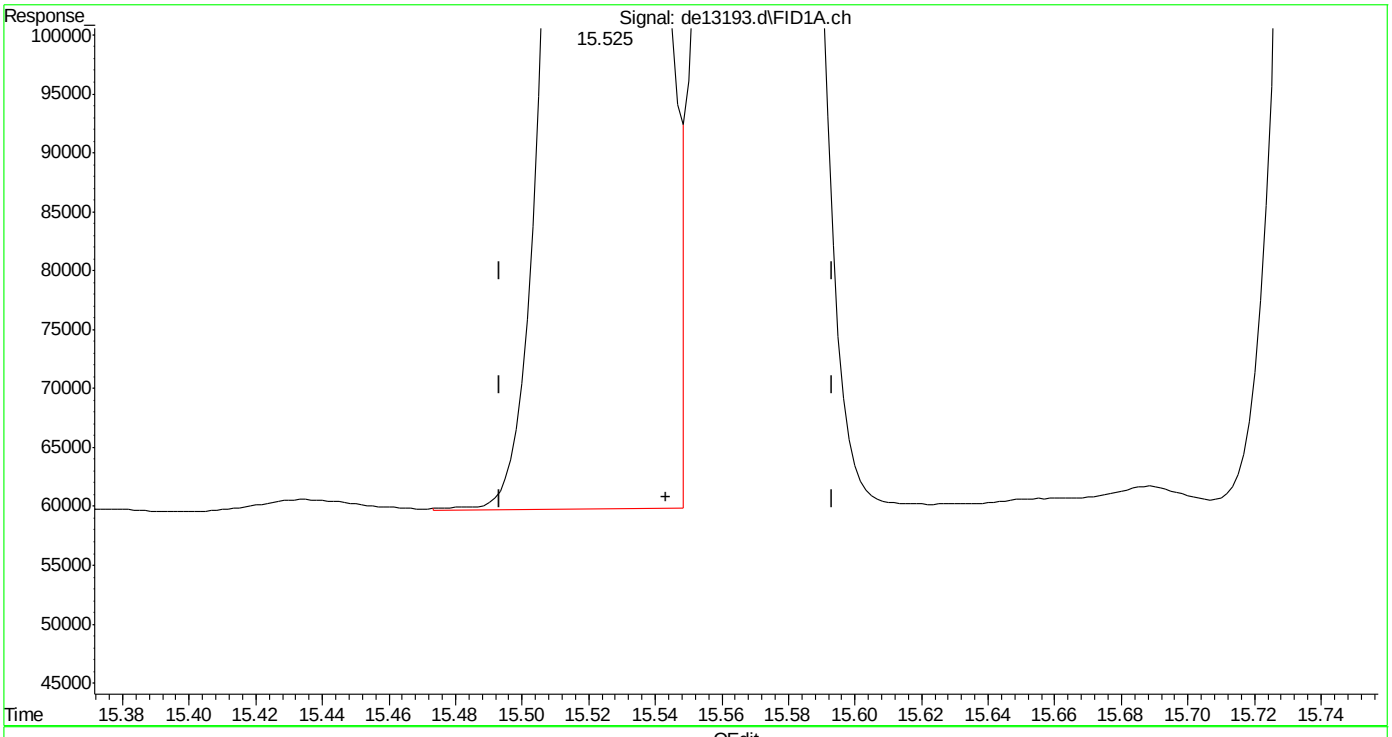
SGS ACCUTEST MC45969

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

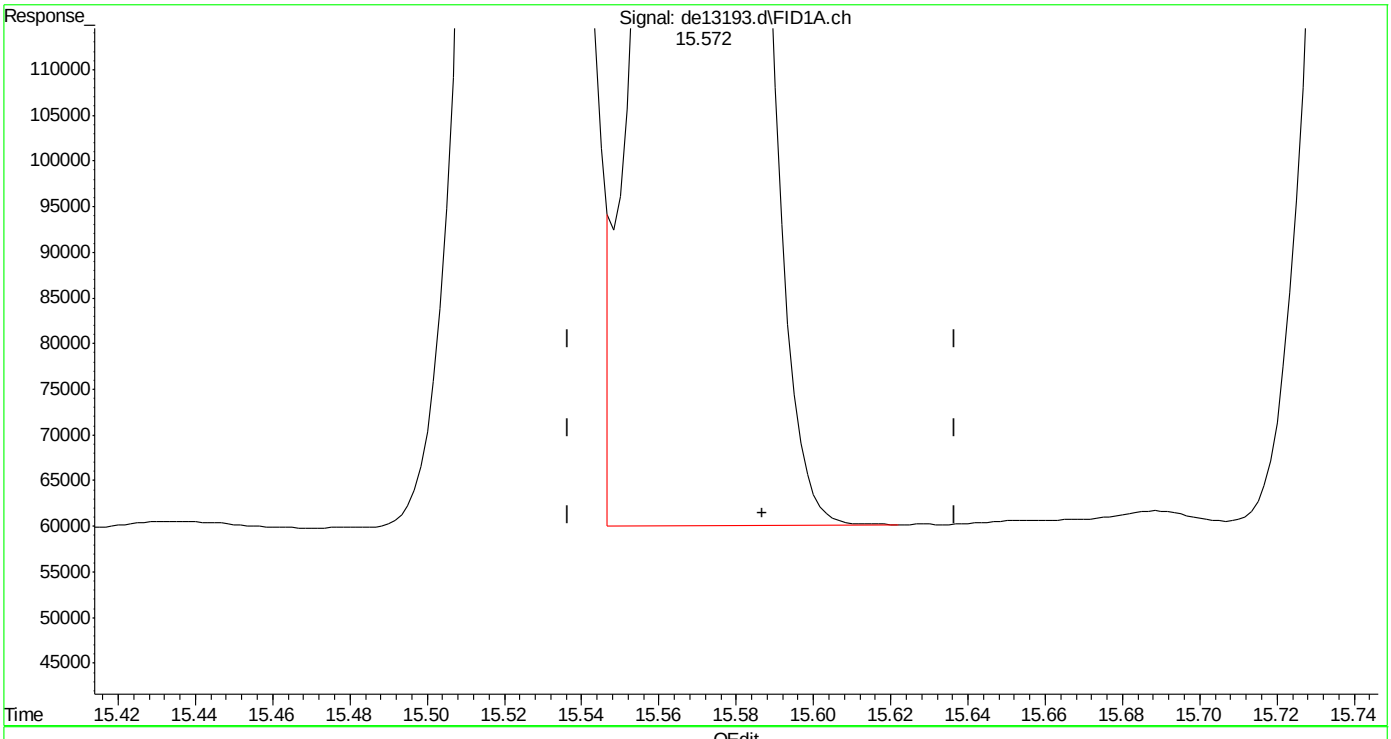
SGS ACCUTEST MC45969

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

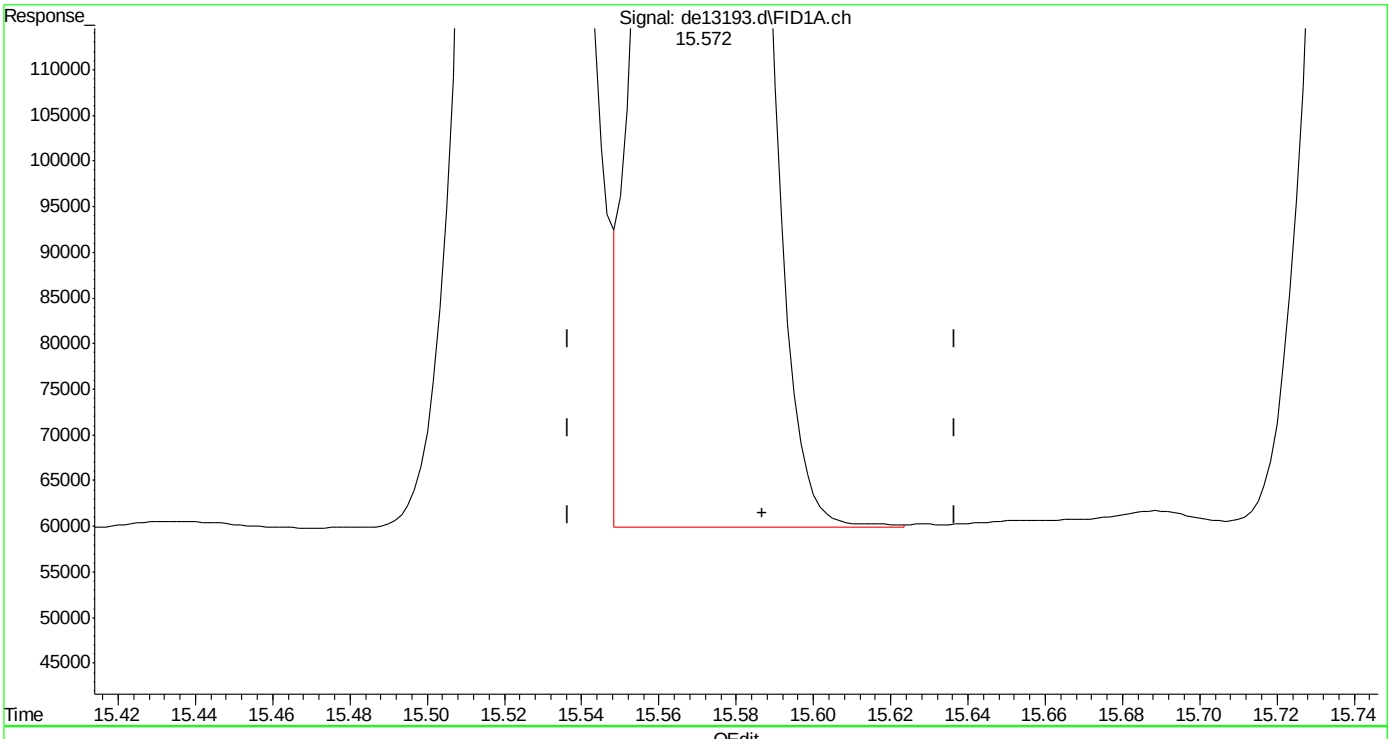
SGS ACCUTEST MC45969

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

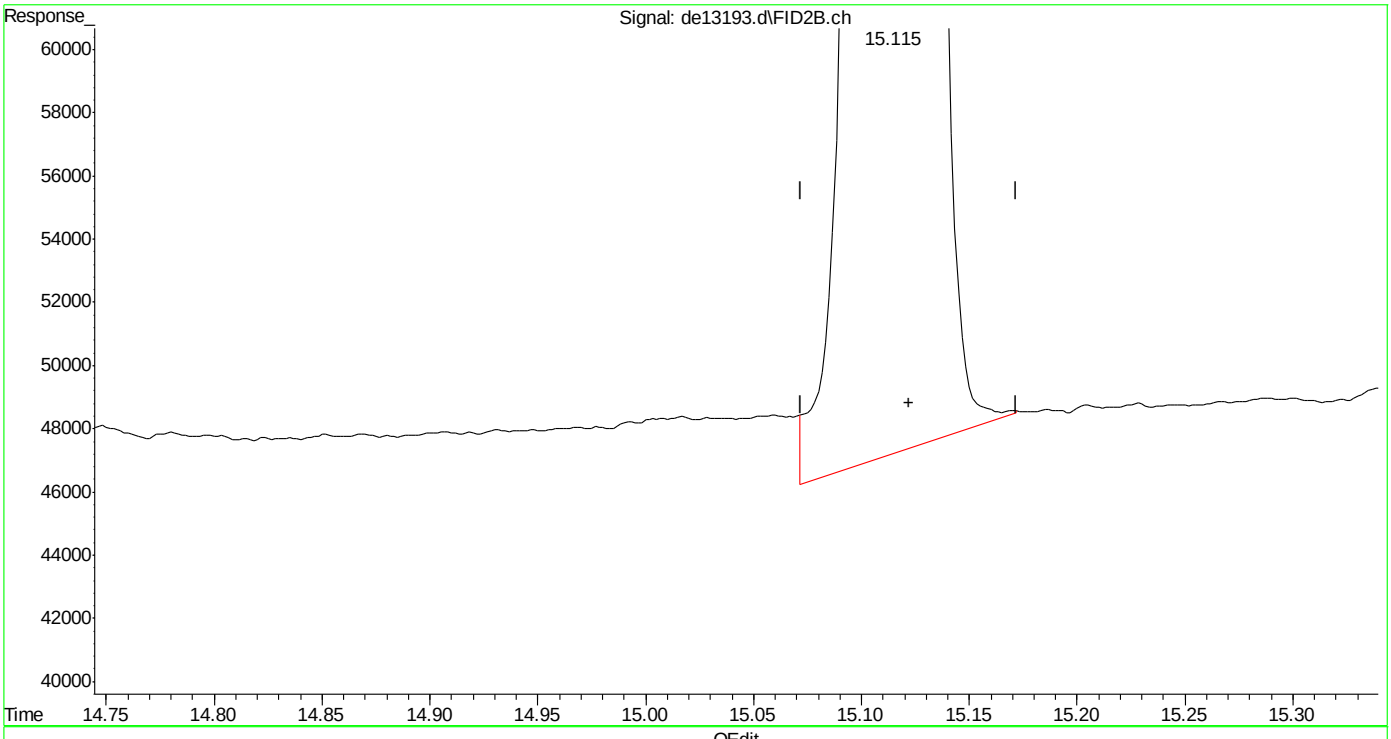
SGS ACCUTEST MC45969

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 MC45969

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

SGS ACCUTEST MC45969

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.580	1435543	20.577	µg/ml
39)		c-28	14.373	1385739	20.519	µg/ml
40)	h	c-30	15.122	1377048	20.029	µg/mlm
41)	h	c-36	17.010	1222680	20.011	µg/mlm

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

9.4.4

9

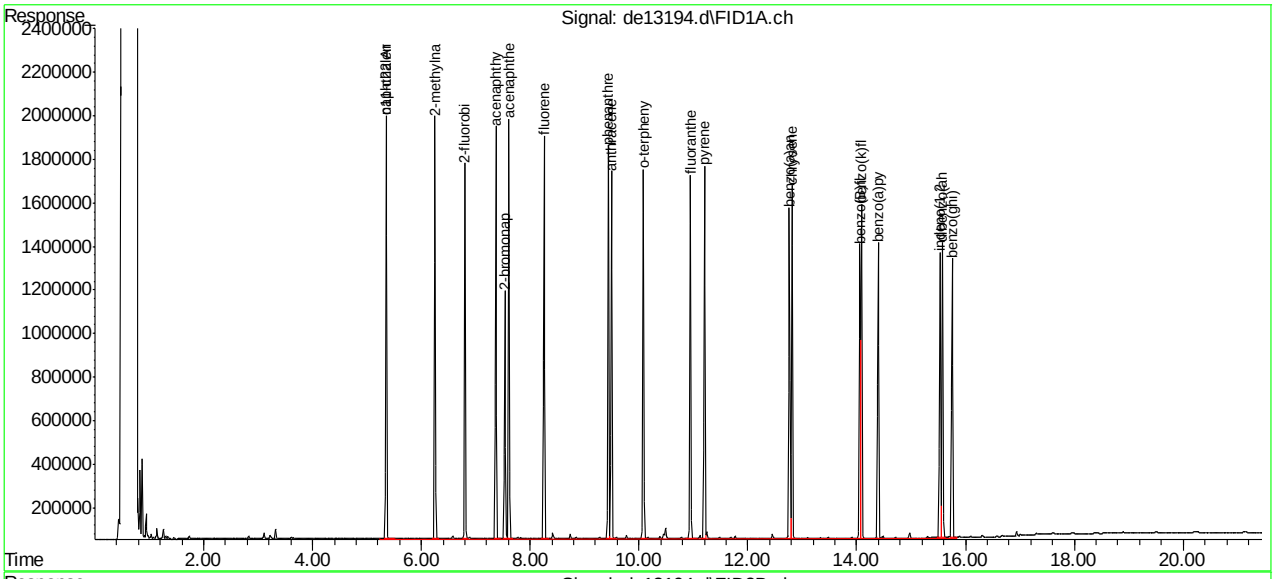
SGS ACCUTEST MC45969

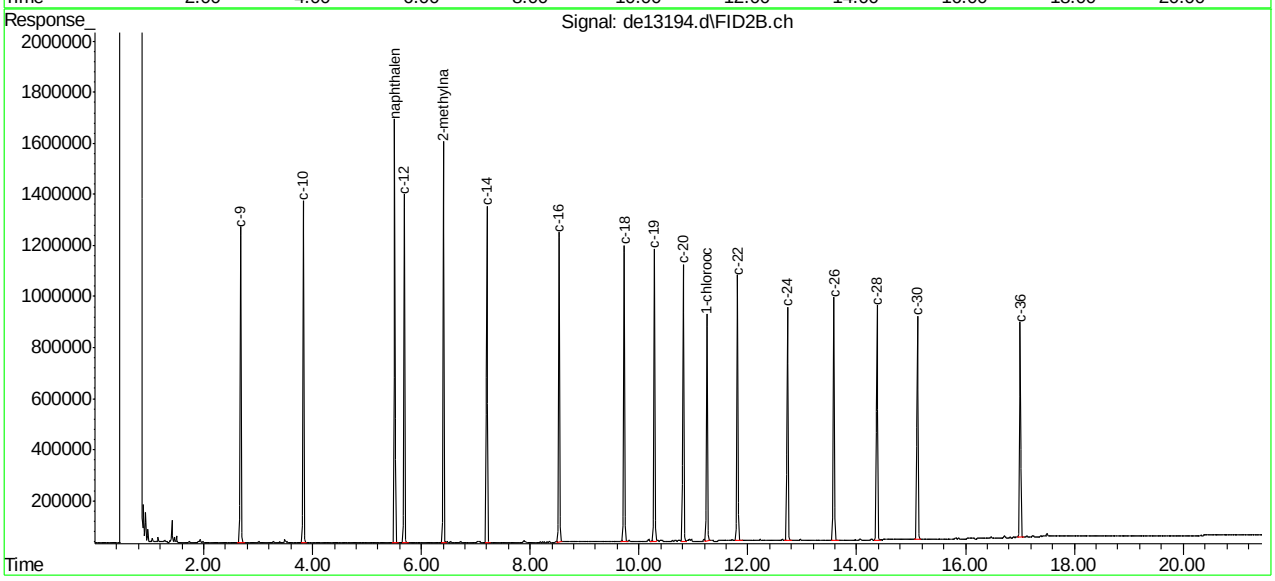
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

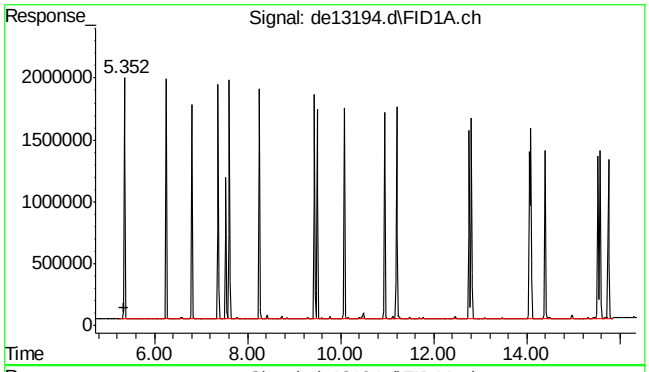
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



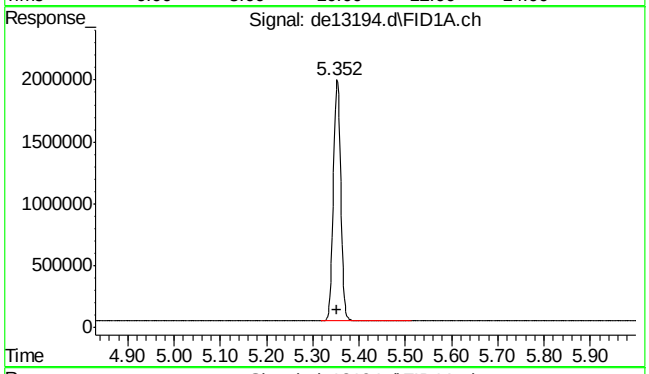


SGS ACCUTEST MC45969



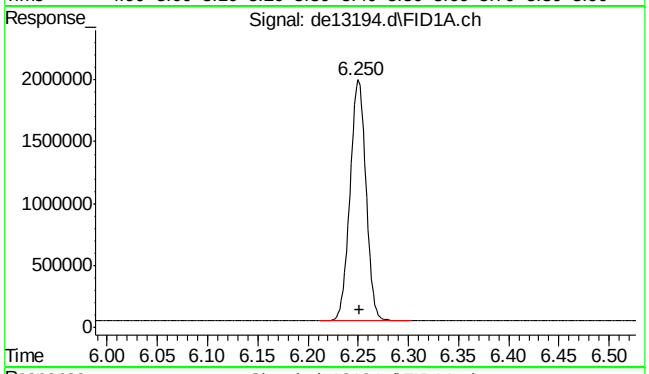
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



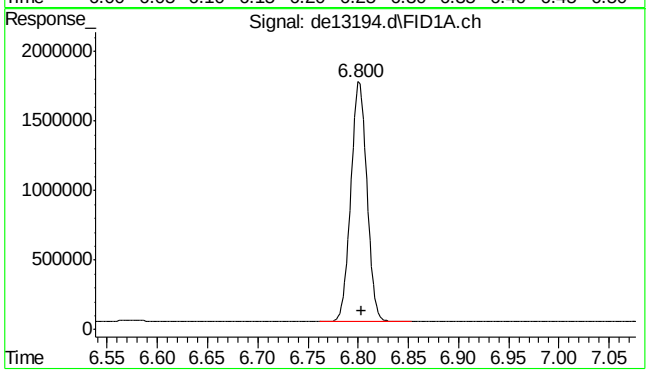
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



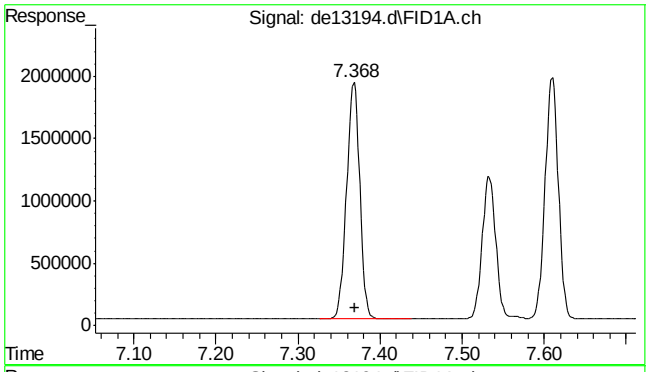
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



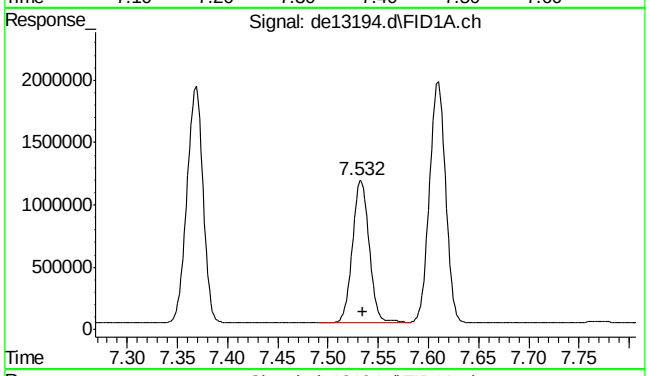
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml



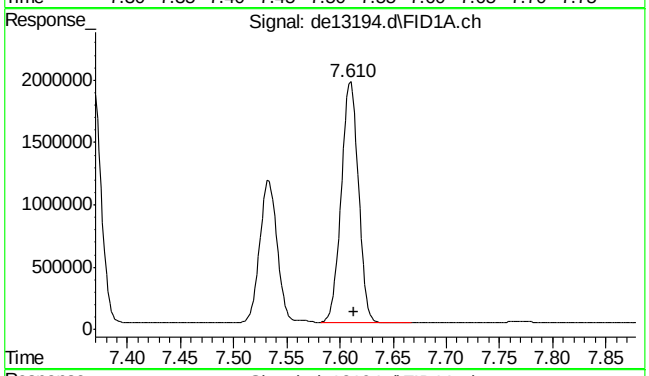
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



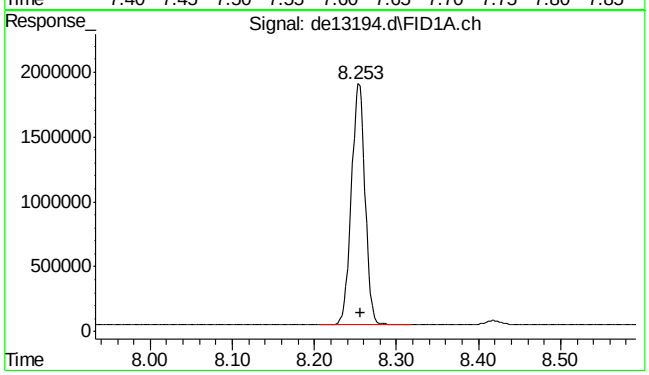
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 1318220
Conc: 20.45 µg/ml



#7 acenaphthene

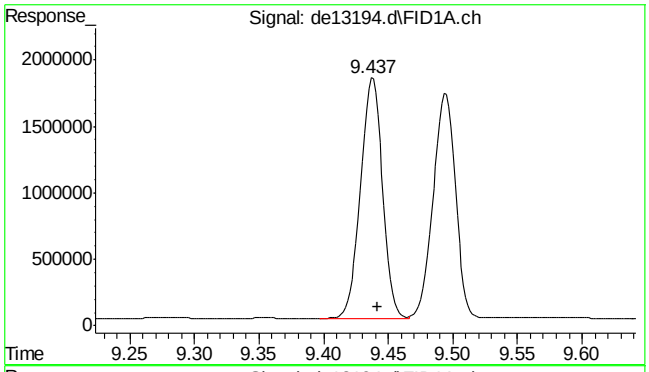
R.T.: 7.610 min
Delta R.T.: -0.003 min
Response: 2170607
Conc: 20.45 µg/ml



#8 fluorene

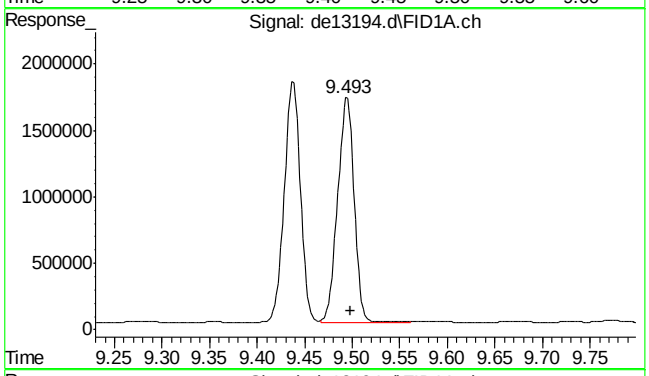
R.T.: 8.253 min
Delta R.T.: -0.003 min
Response: 2130652
Conc: 20.46 µg/ml

SGS ACCUTEST MC45969



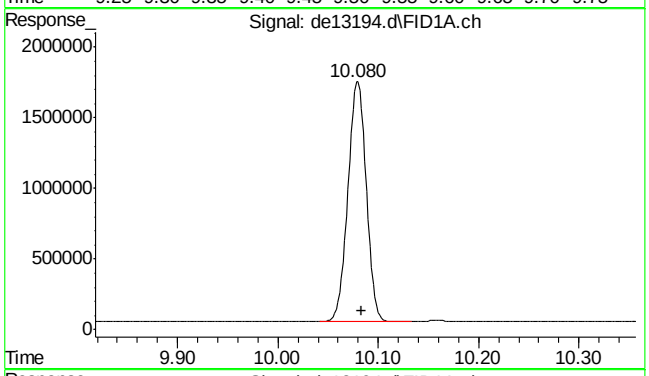
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



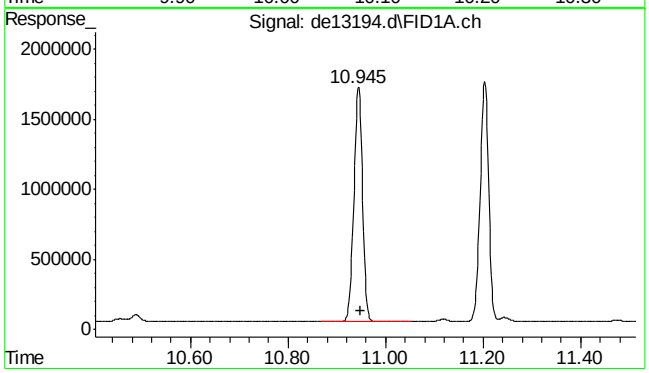
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



#11 o-terphenyl

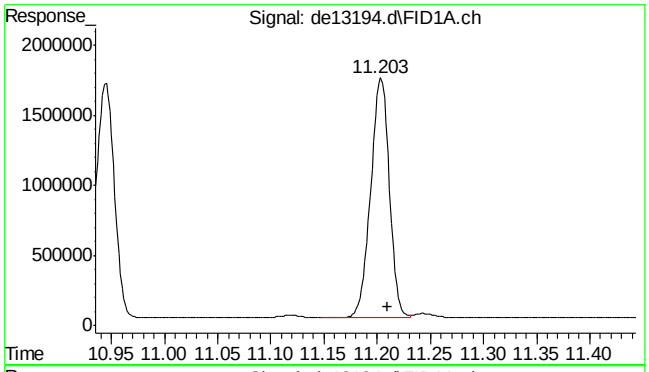
R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



#12 fluoranthene

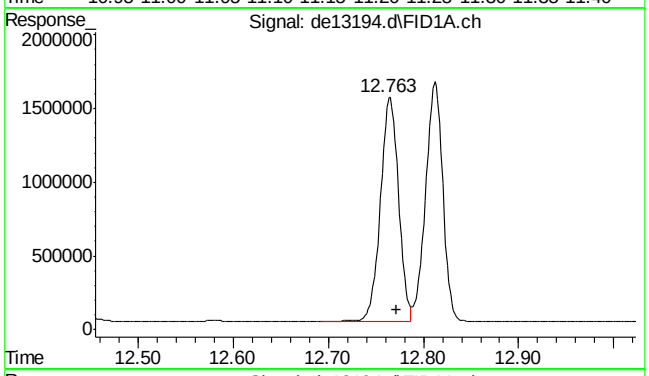
R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml

SGS ACCUTEST MC45969



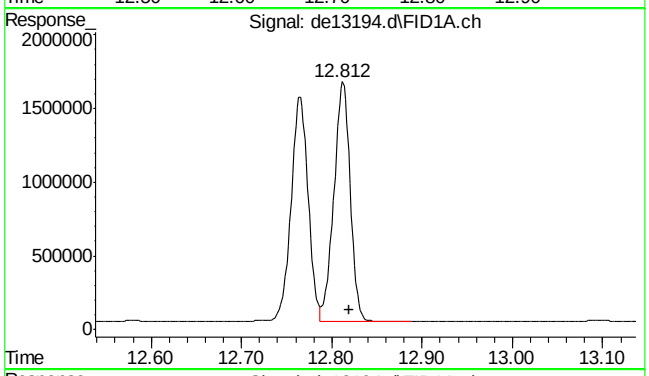
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



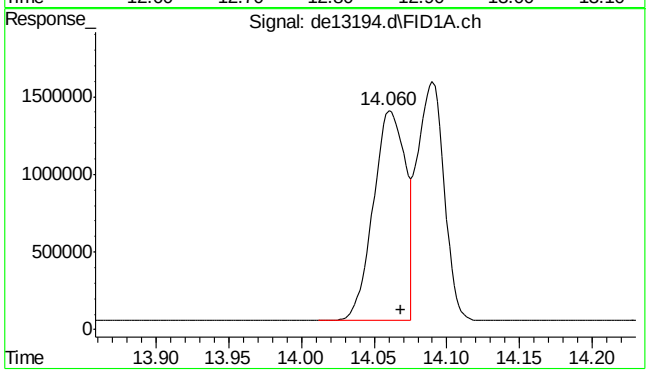
#14 benzo(a)anthracene

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



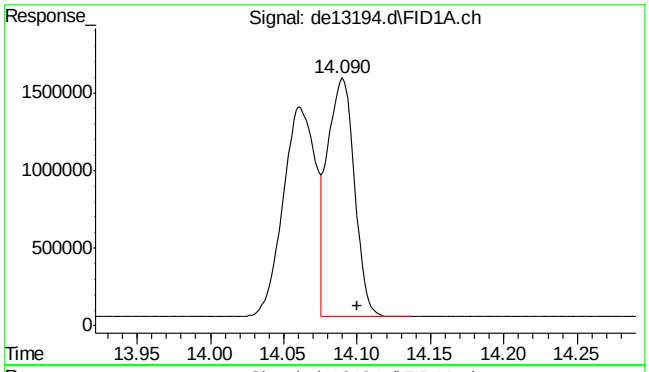
#16 benzo(B)fluoranthene

R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m

9.4.4

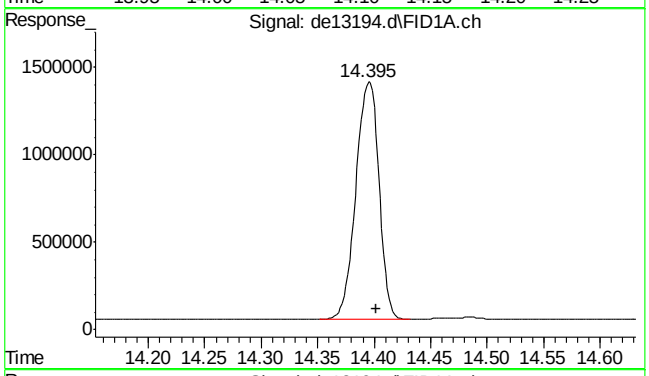
9

SGS ACCUTEST MC45969



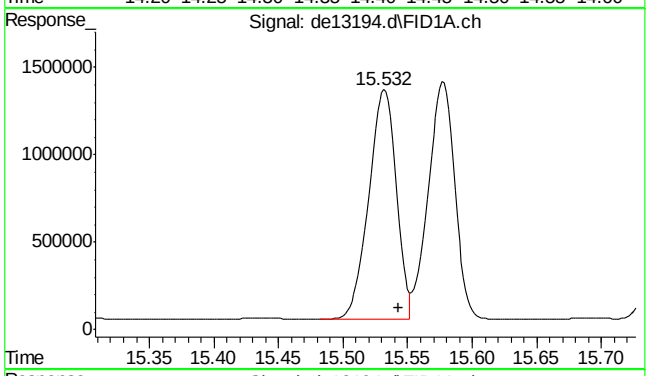
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



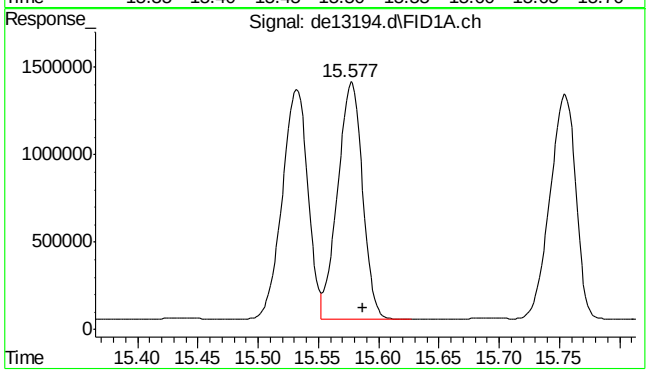
#18 benzo(a)pyrene

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

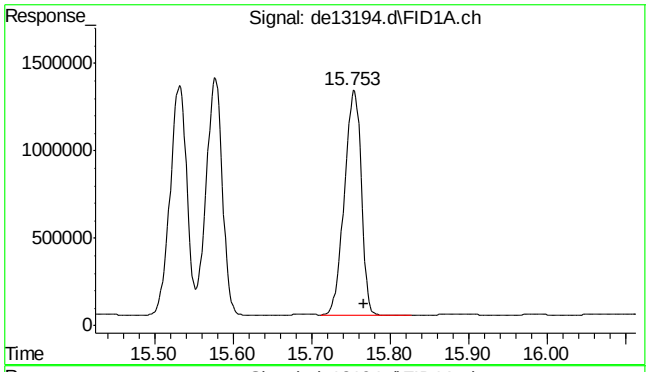
R.T.: 15.532 min
Delta R.T.: -0.012 min
Response: 1948257
Conc: 19.99 µg/ml



#20 dibenzo(ah)anthracene

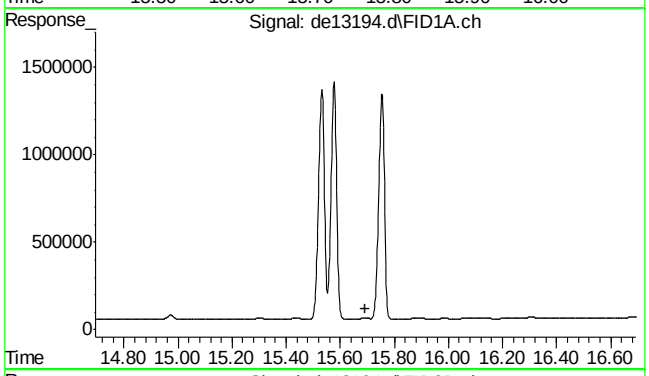
R.T.: 15.577 min
Delta R.T.: -0.010 min
Response: 1933263
Conc: 20.73 µg/ml

SGS ACCUTEST MC45969



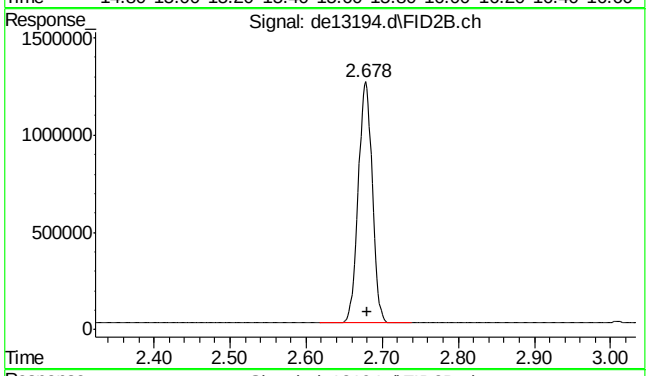
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



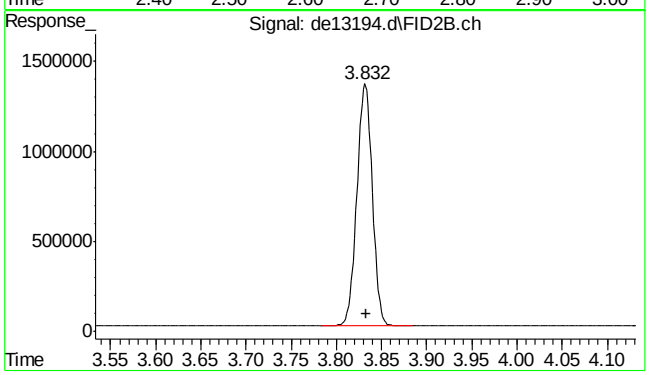
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 1587594
Conc: 20.95 µg/ml m



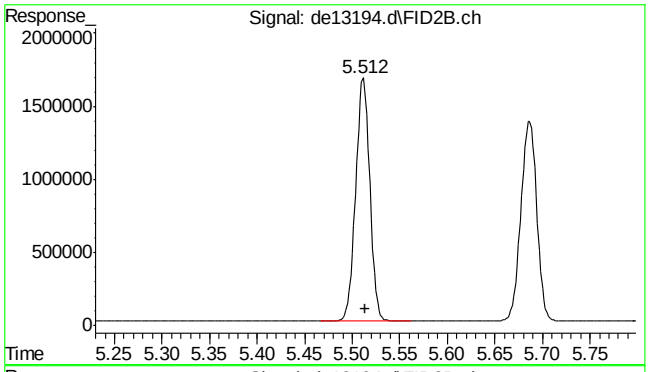
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.4.4

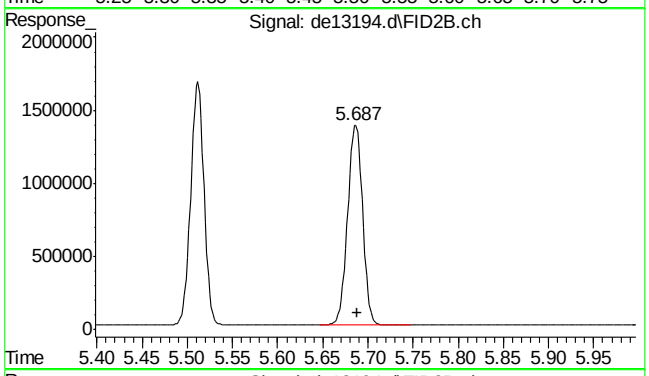
9

SGS ACCUTEST MC45969



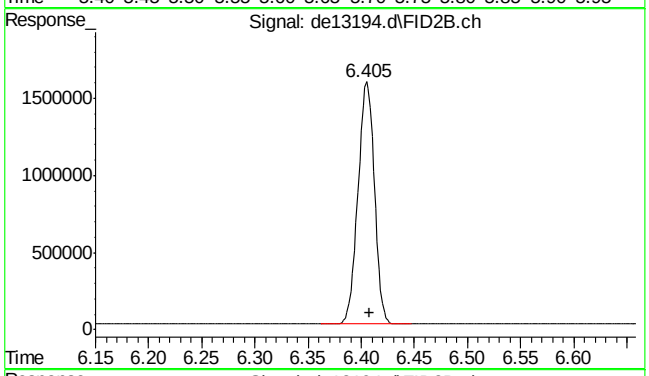
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



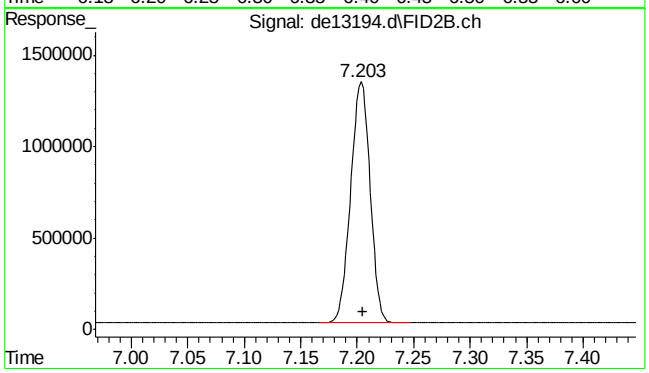
#28 c-12

R.T.: 5.687 min
Delta R.T.: -0.002 min
Response: 1581613
Conc: 20.81 µg/ml



#29 2-methylnaphthalene #2

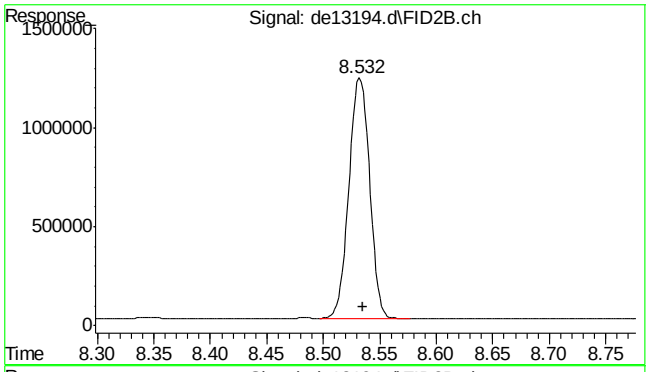
R.T.: 6.405 min
Delta R.T.: -0.003 min
Response: 1698114
Conc: 20.83 µg/ml



#30 c-14

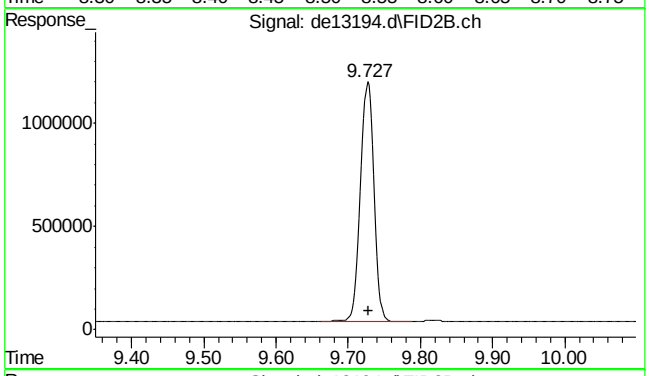
R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml

SGS ACCUTEST MC45969



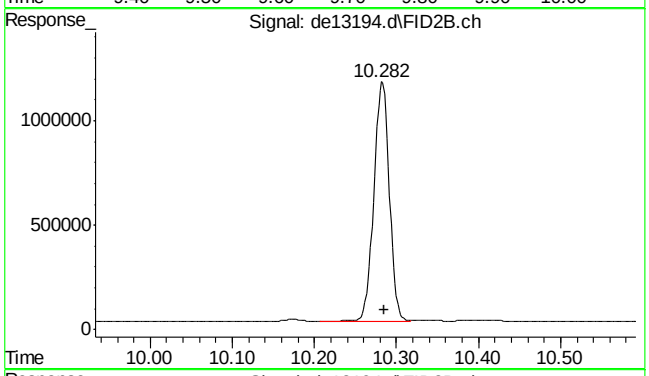
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



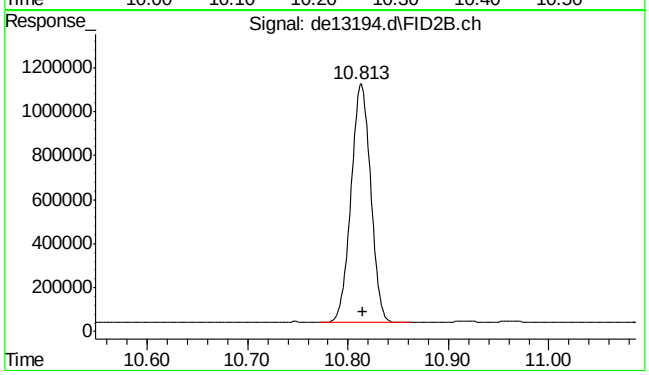
#32 c-18

R.T.: 9.727 min
Delta R.T.: -0.002 min
Response: 1515877
Conc: 20.26 µg/ml



#33 c-19

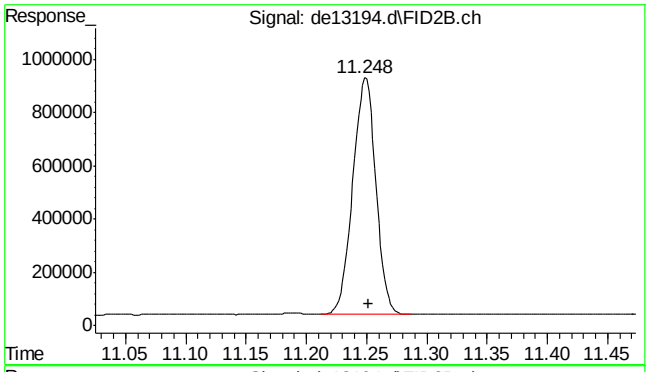
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 1500139
Conc: 20.56 µg/ml



#34 c-20

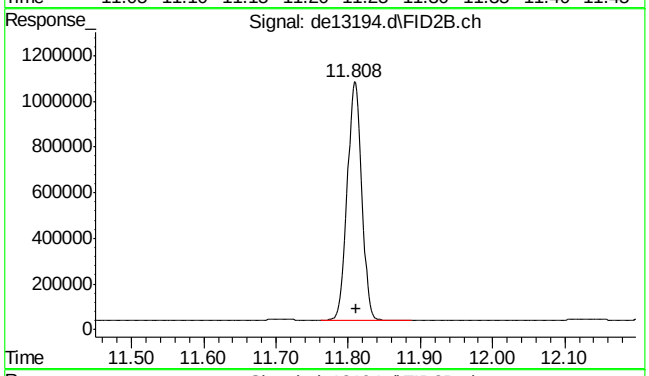
R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

SGS ACCUTEST MC45969



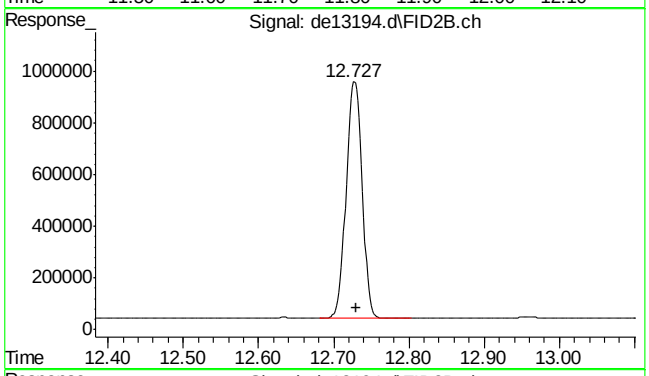
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



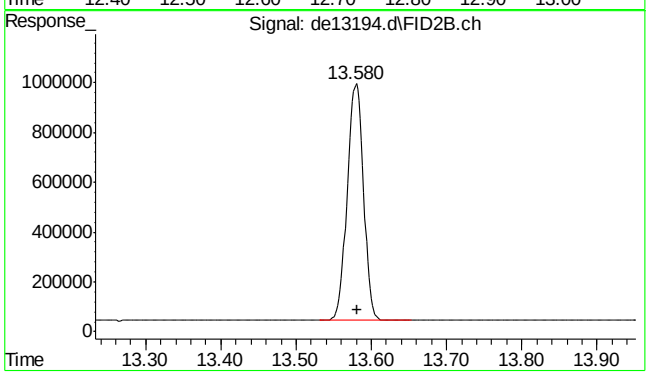
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 1451343
Conc: 20.60 µg/ml



#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 1351453
Conc: 20.22 µg/ml



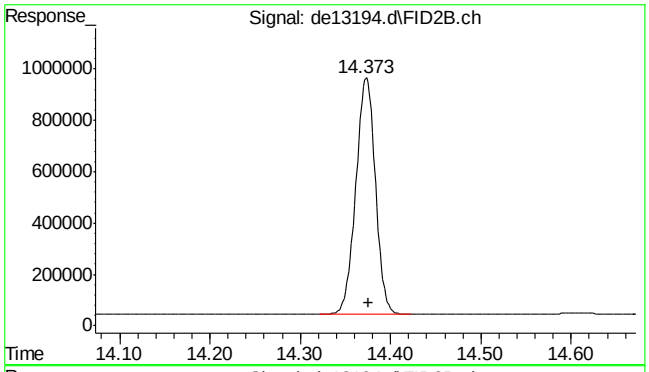
#38 c-26

R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml

9.4.4

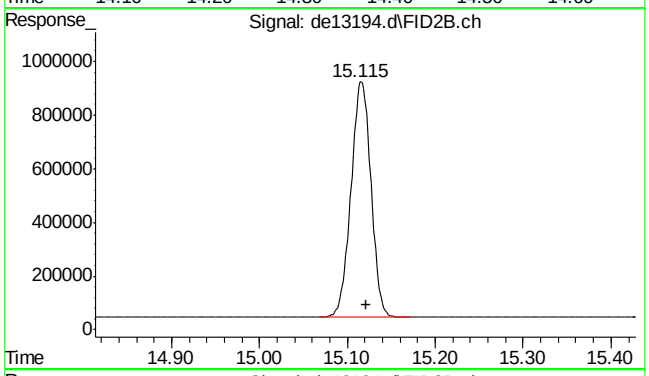
9

SGS ACCUTEST MC45969



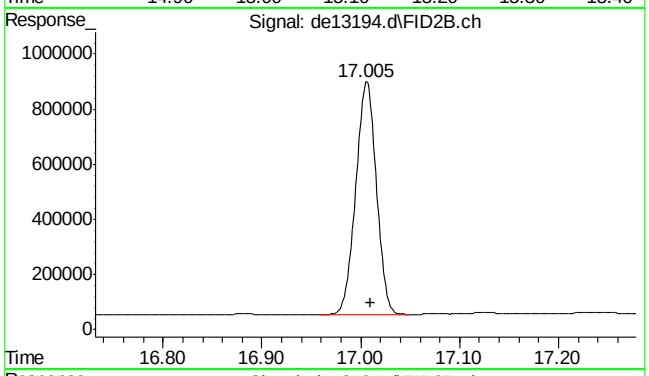
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



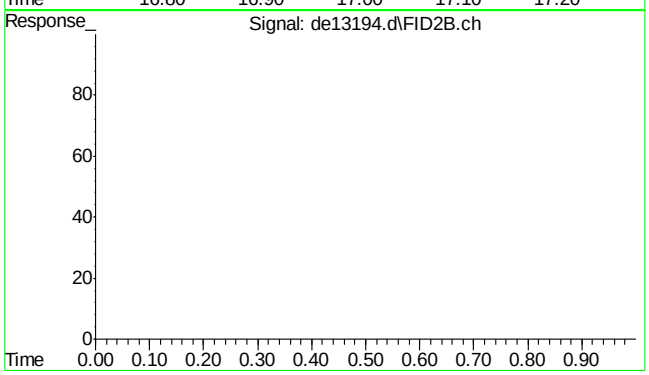
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 1377048
Conc: 20.03 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 1222680
Conc: 20.01 µg/ml m



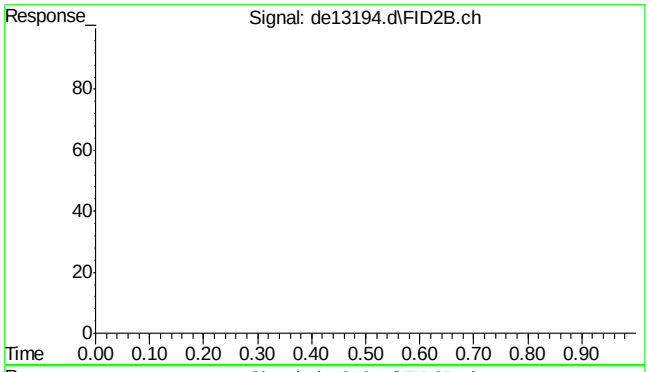
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.4

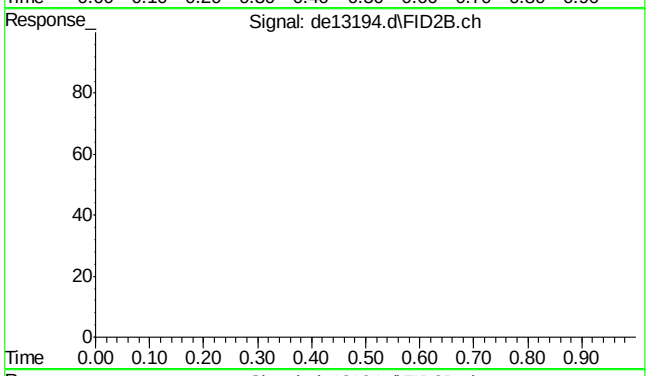
9

SGS ACCUTEST MC45969



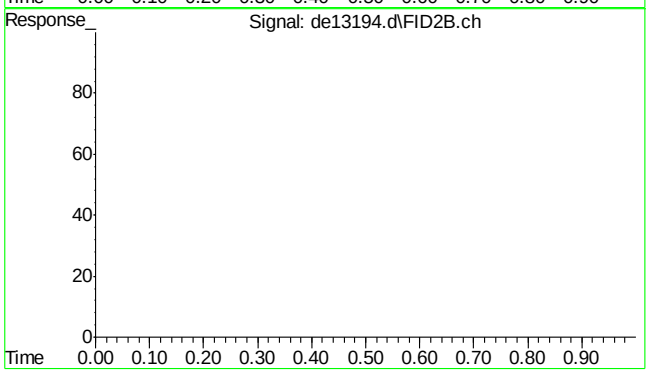
#43 bht

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.

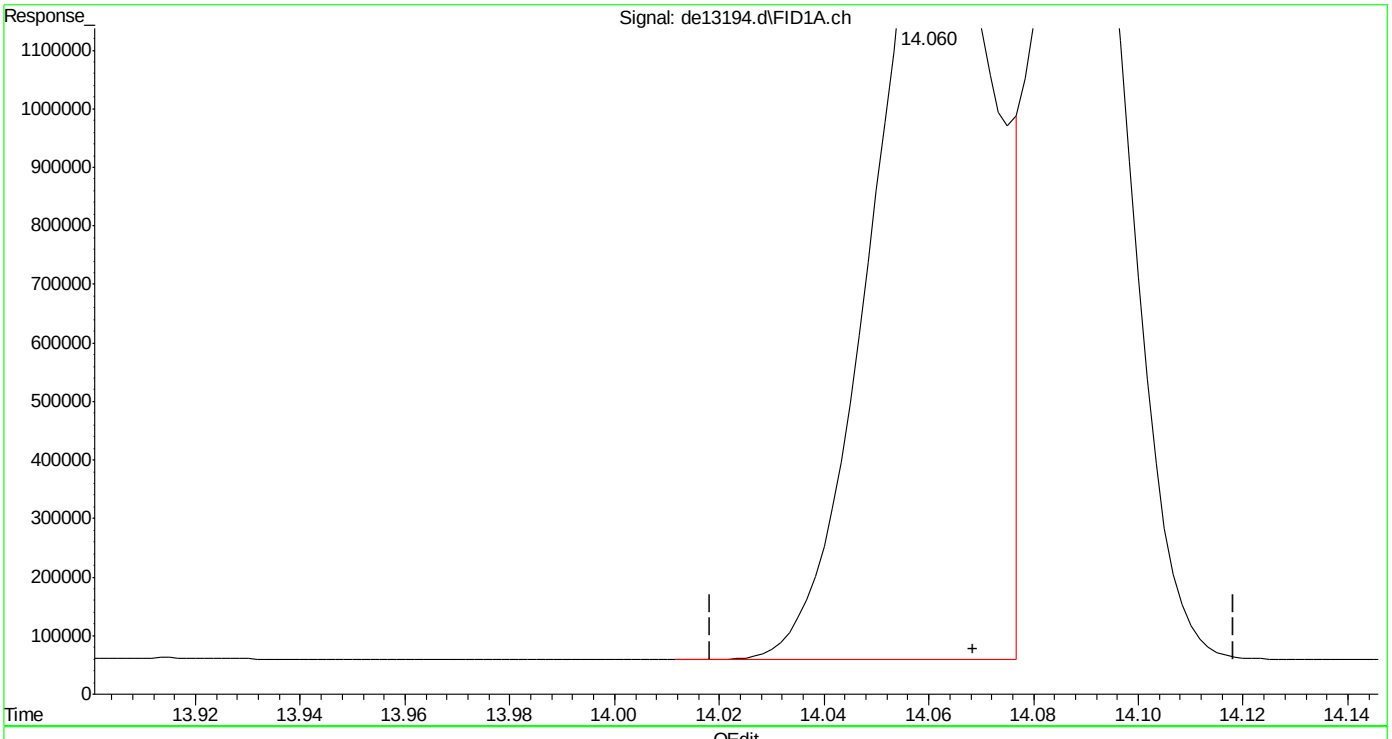
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.060min 21.786 µg/ml
response 2188193

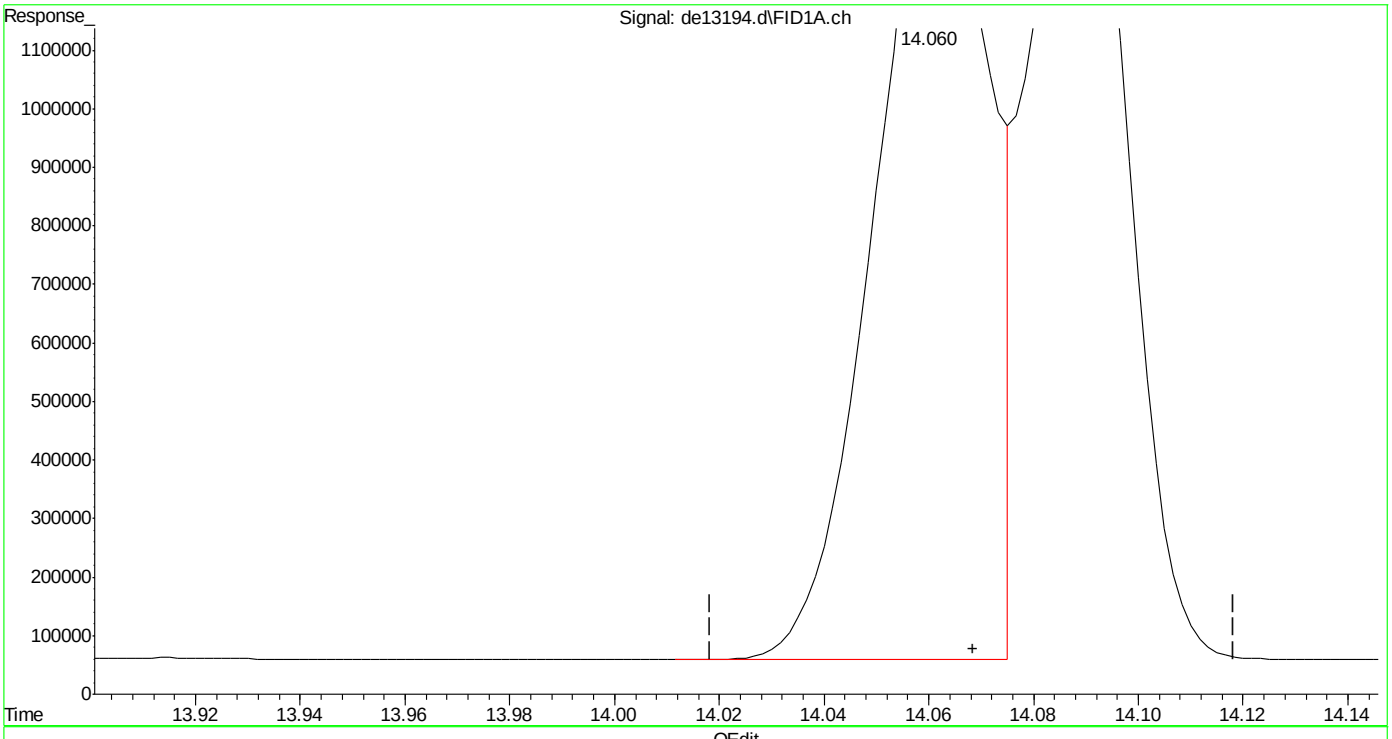
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.060min 20.856 µg/ml m
response 2094779

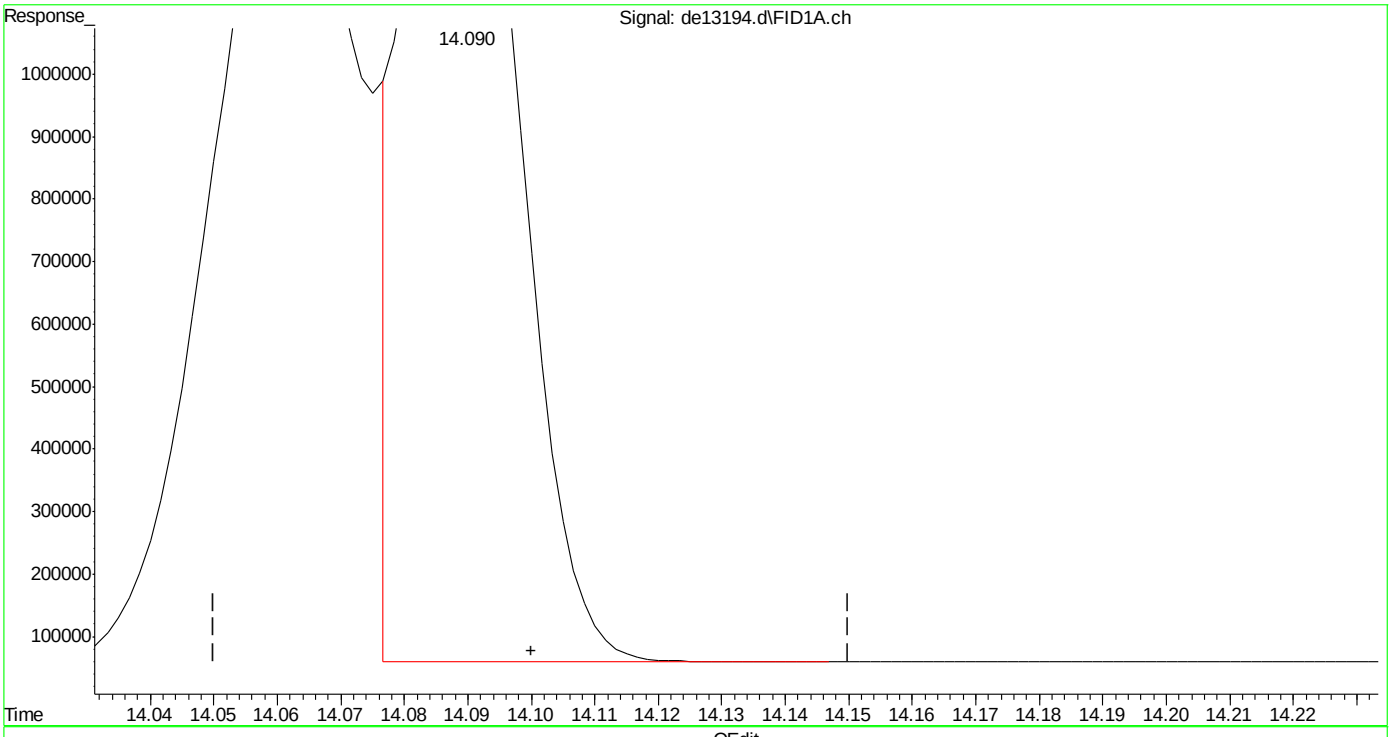
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 Feb 2016   5:31 pm
Operator  : thomasa
Sample    : ic735-20
Misc      : op46227,gde735,1000,,,2,,w
ALS Vial  : 8   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title  : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene

14.090min 19.228 µg/ml

response 1860456

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:50:38 2016

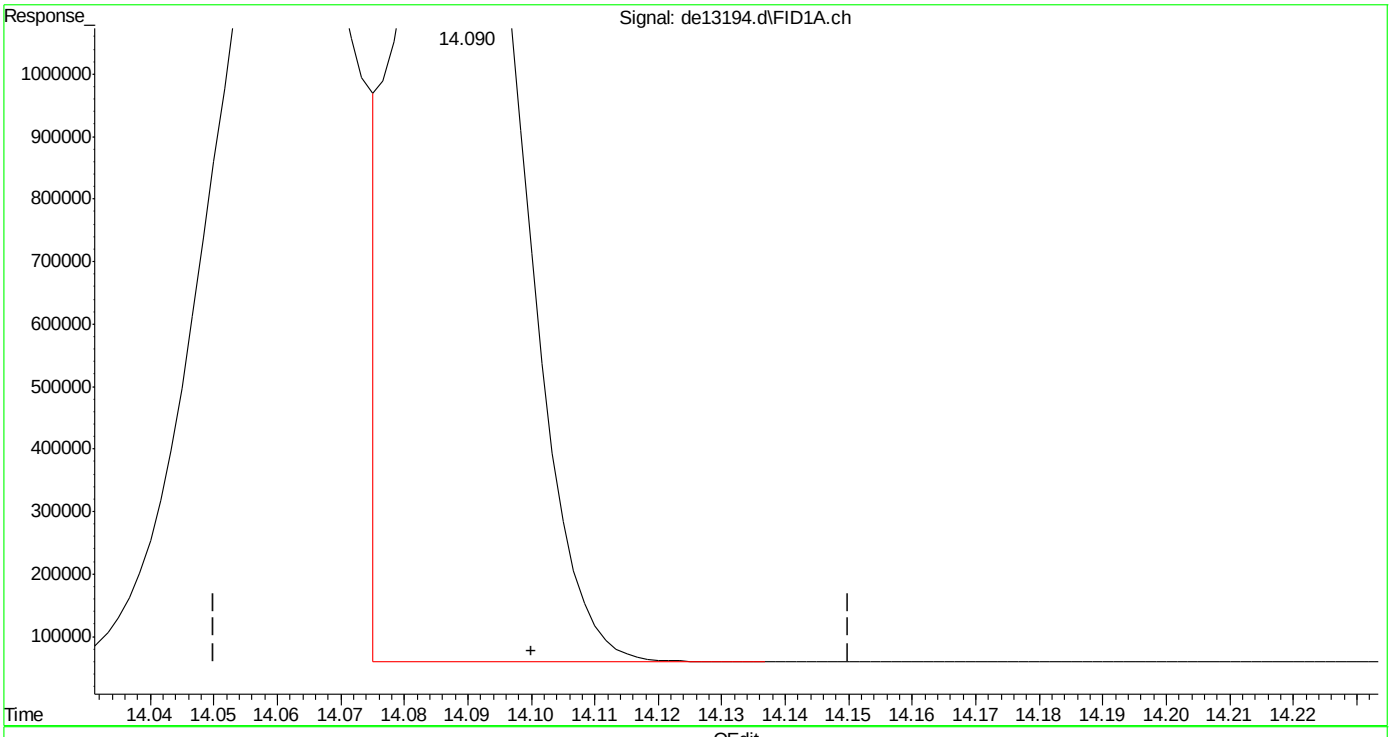
SGS ACCUTEST MC45969

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

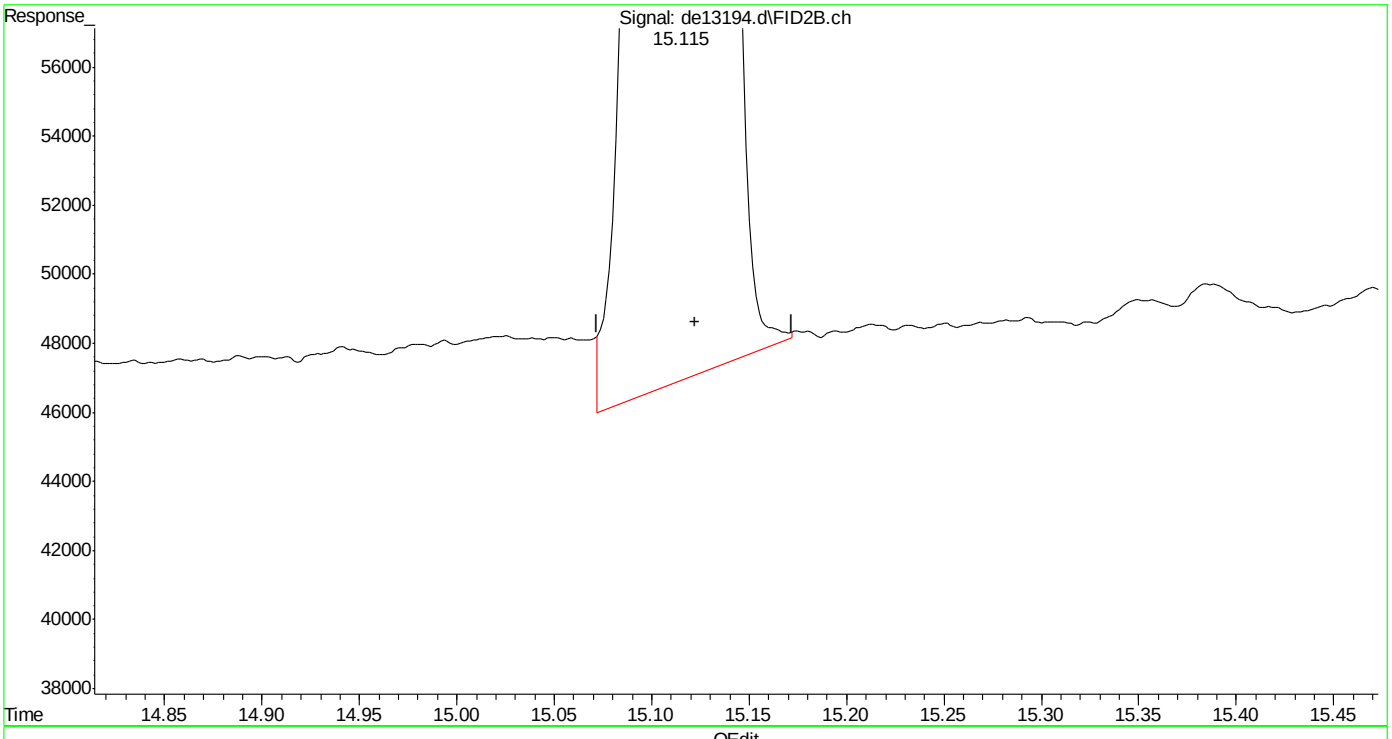
(+) = Expected Retention Time

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

SGS ACCUTEST MC45969

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.

9.4.5

9

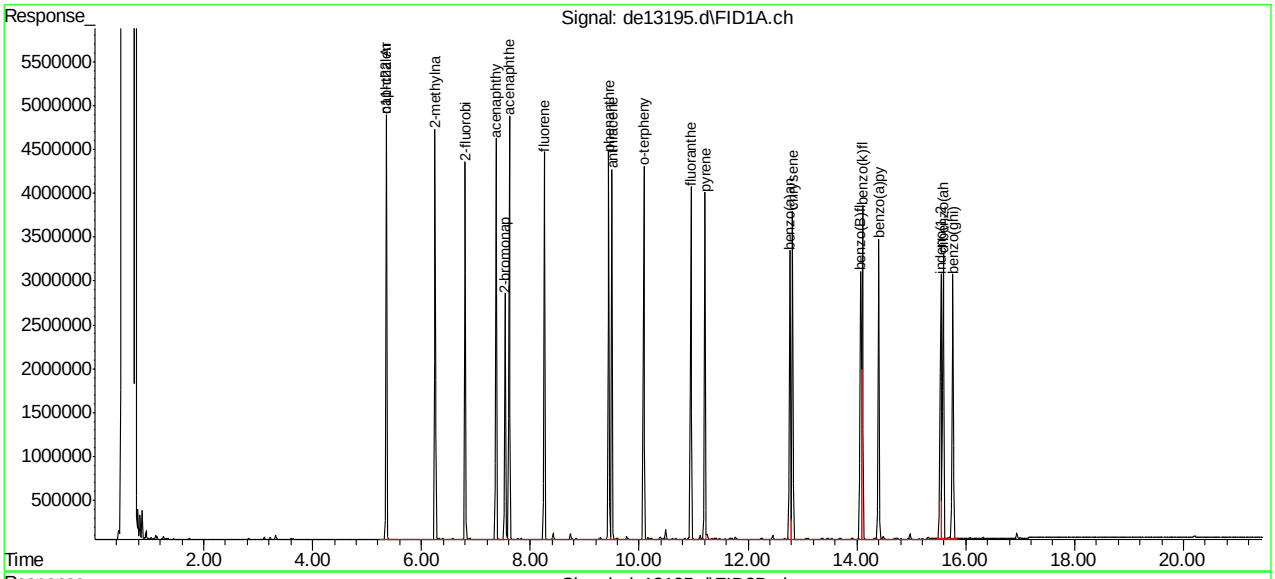
SGS ACCUTEST MC45969

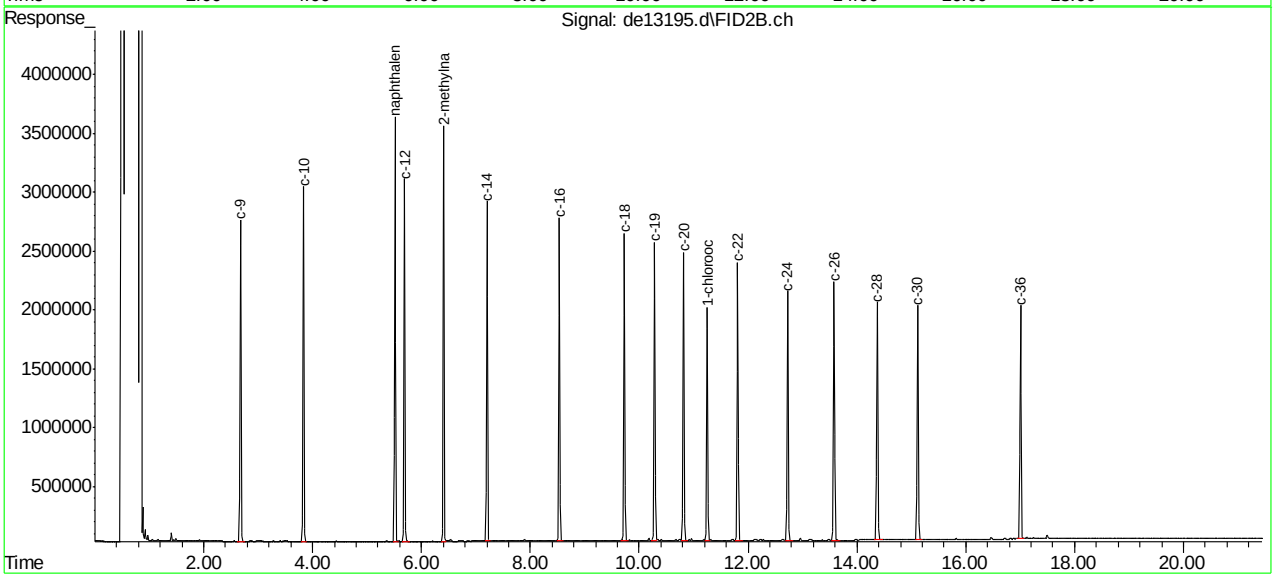
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

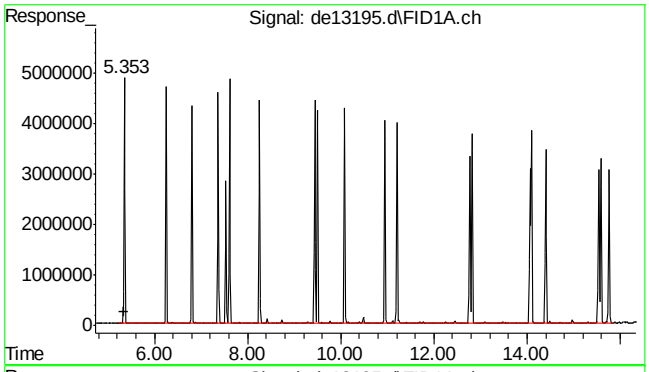
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



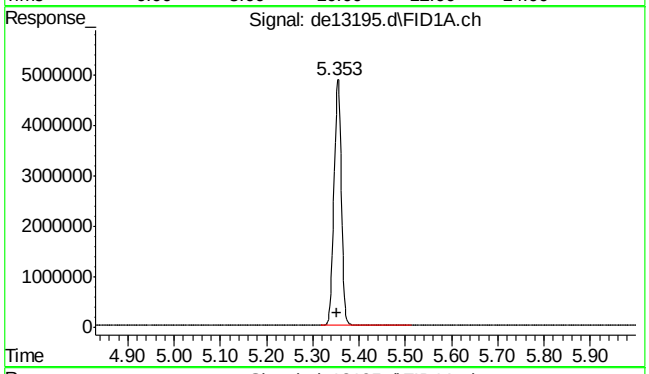


SGS ACCUTEST MC45969



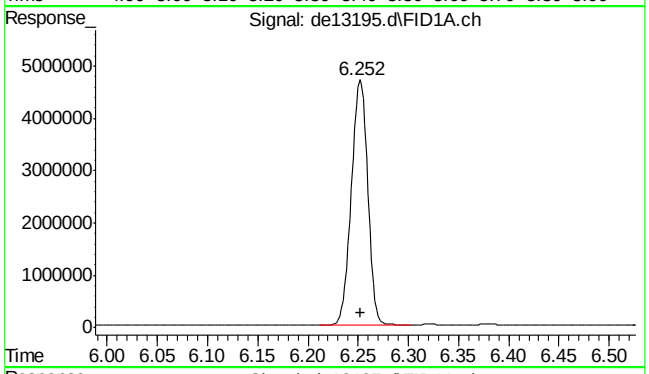
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



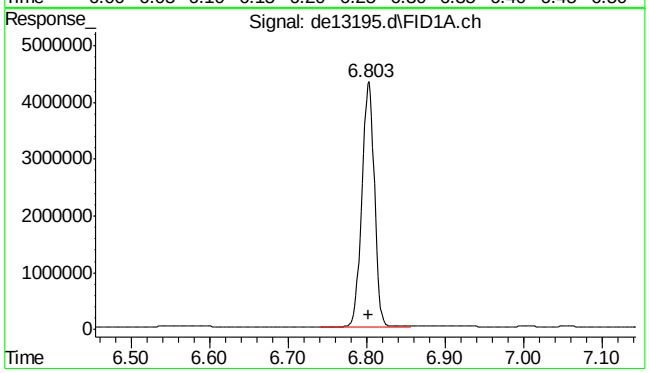
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 5345223
Conc: 51.09 µg/ml



#3 2-methylnaphthalene

R.T.: 6.252 min
Delta R.T.: 0.000 min
Response: 5287222
Conc: 50.95 µg/ml



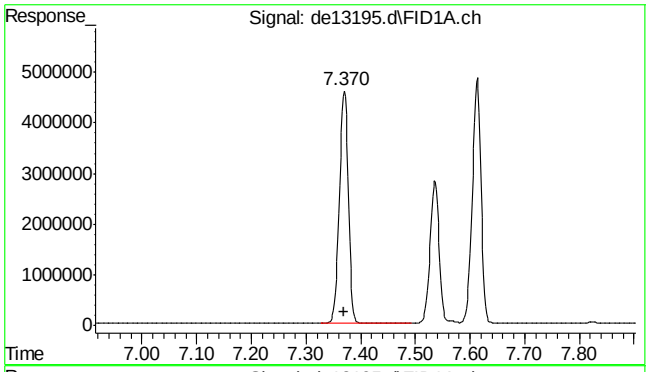
#4 2-fluorobiphenyl

R.T.: 6.803 min
Delta R.T.: 0.000 min
Response: 4755859
Conc: 50.97 µg/ml

9.4.5

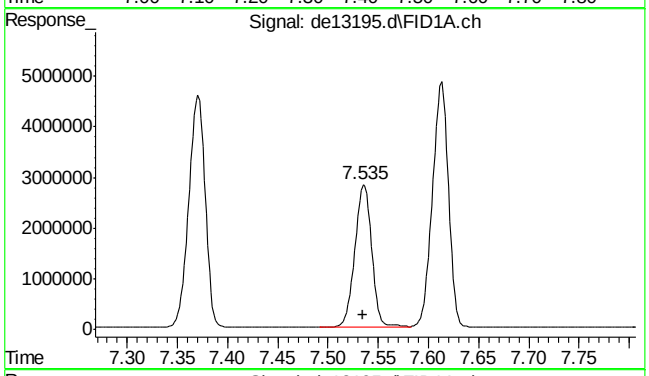
9

SGS ACCUTEST MC45969



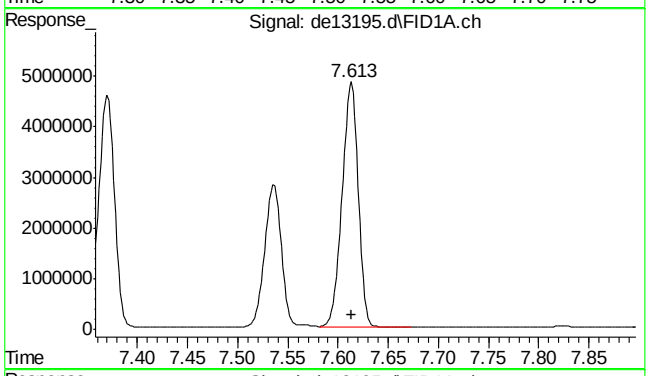
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



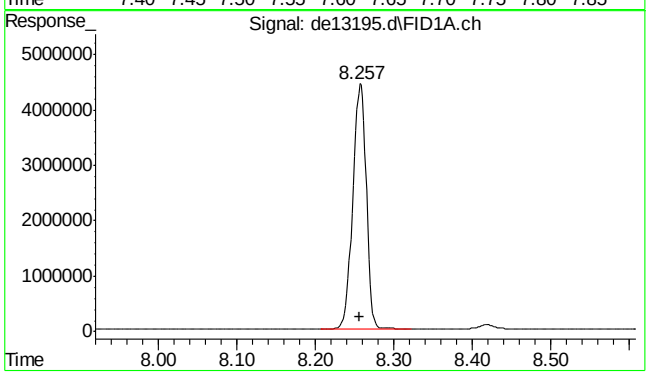
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



#7 acenaphthene

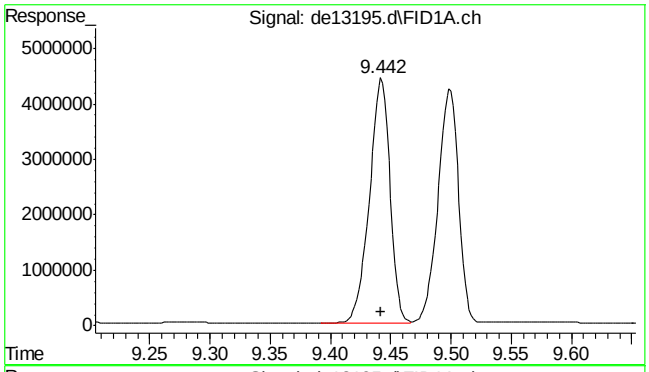
R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



#8 fluorene

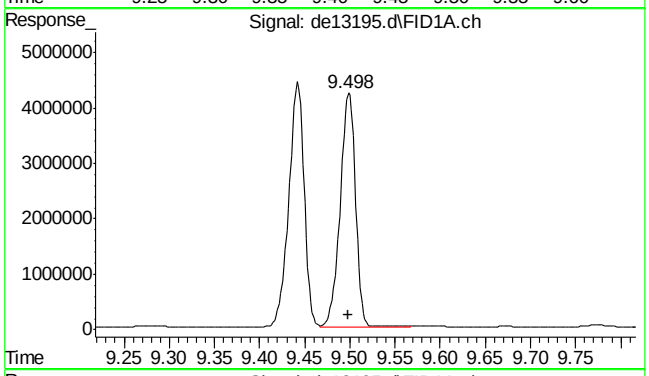
R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

SGS ACCUTEST MC45969



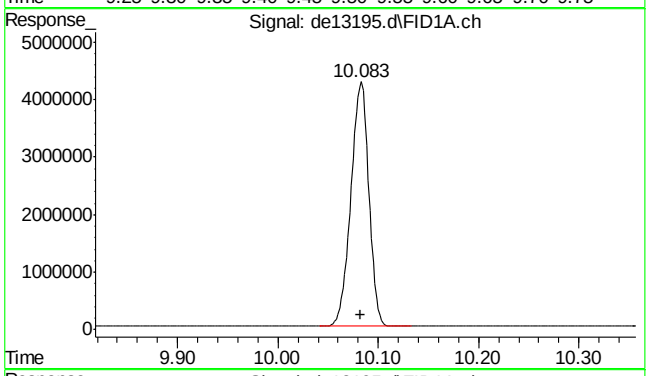
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



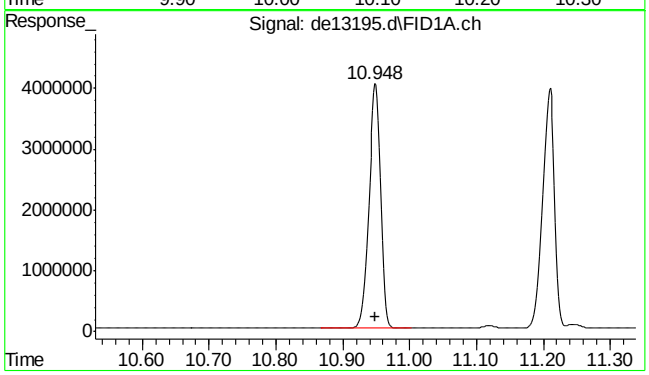
#10 anthracene

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 4970359
Conc: 51.42 µg/ml



#11 o-terphenyl

R.T.: 10.083 min
Delta R.T.: 0.000 min
Response: 5257542
Conc: 50.99 µg/ml



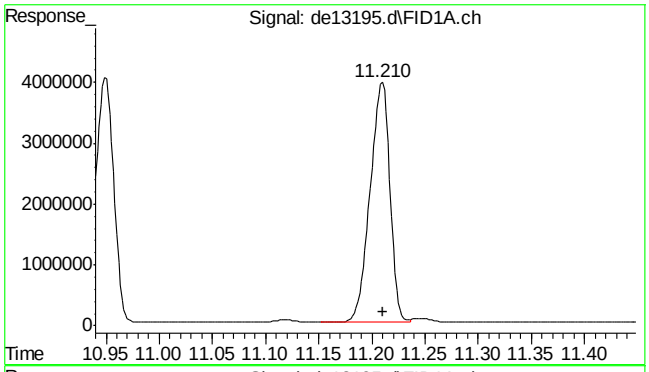
#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.4.5

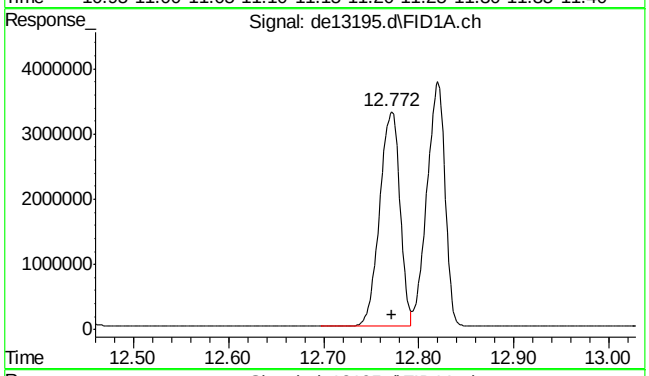
9

SGS ACCUTEST MC45969



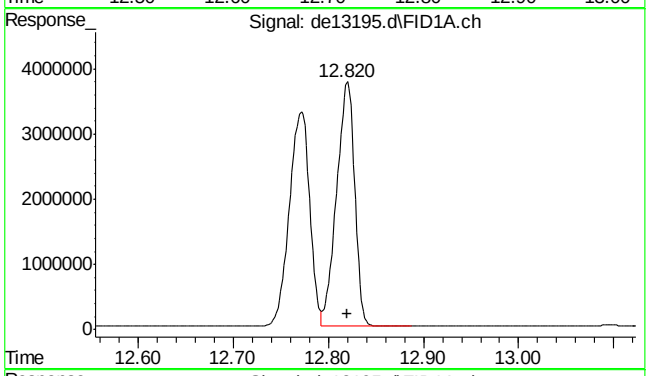
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



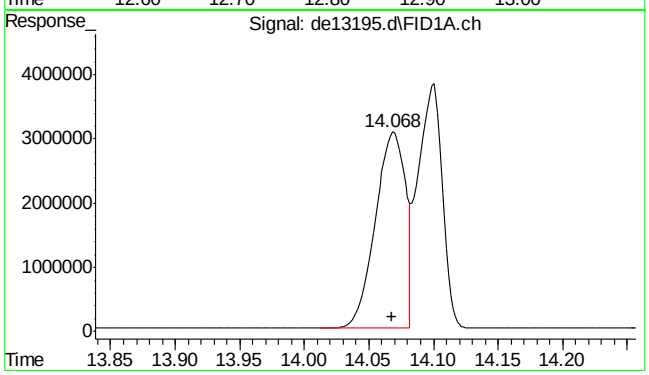
#14 benzo(a)anthracene

R.T.: 12.772 min
Delta R.T.: 0.000 min
Response: 4883350
Conc: 50.33 µg/ml



#15 chrysene

R.T.: 12.820 min
Delta R.T.: 0.000 min
Response: 4951740
Conc: 50.66 µg/ml



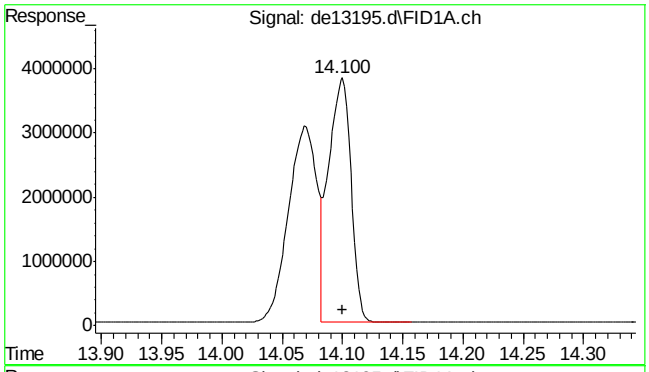
#16 benzo(B)fluoranthene

R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml

9.4.5

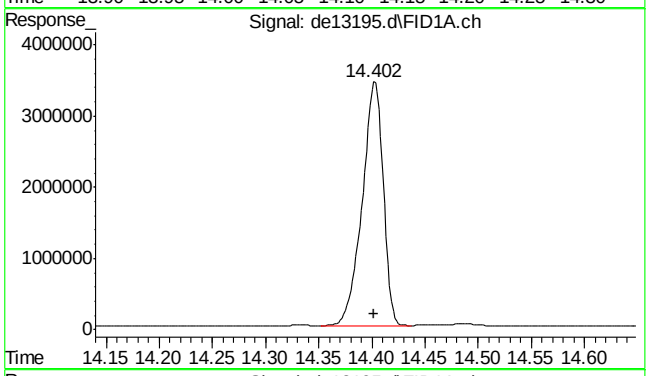
9

SGS ACCUTEST MC45969



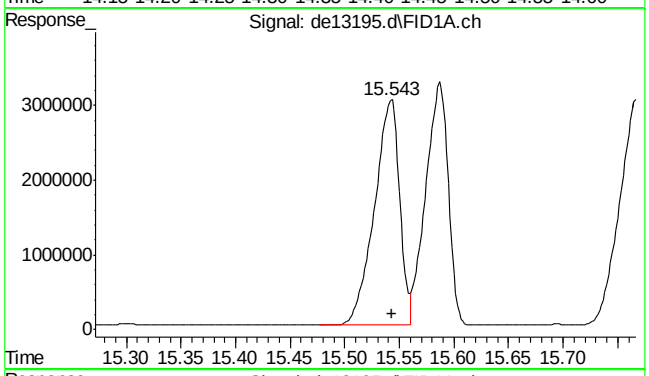
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



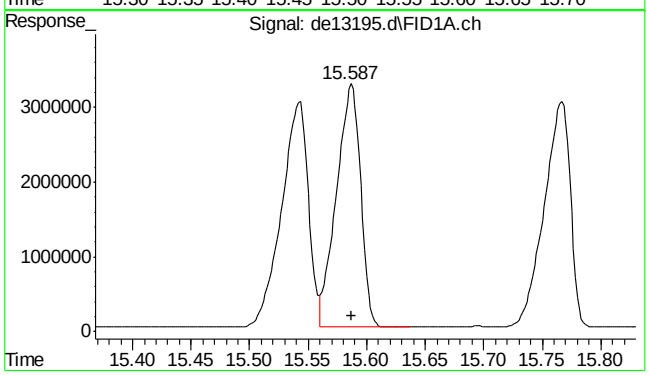
#18 benzo(a)pyrene

R.T.: 14.402 min
Delta R.T.: 0.000 min
Response: 4724847
Conc: 50.44 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4854725
Conc: 50.33 µg/ml m



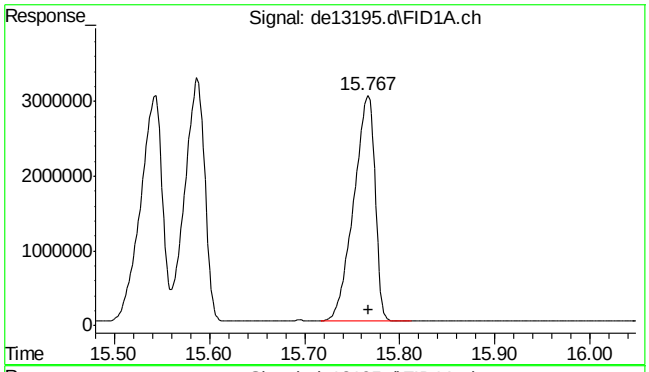
#20 dibenzo(ah)anthracene

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m

9.4.5

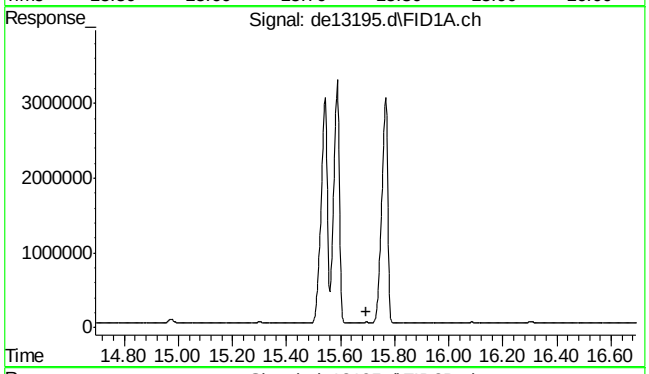
9

SGS ACCUTEST MC45969



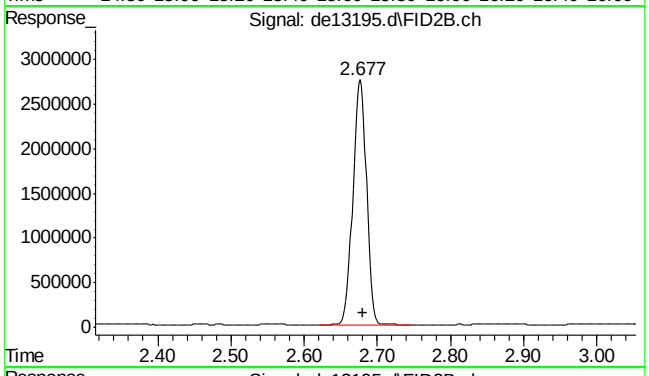
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



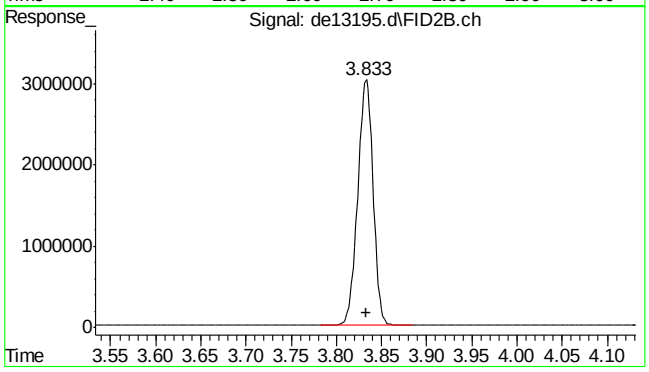
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



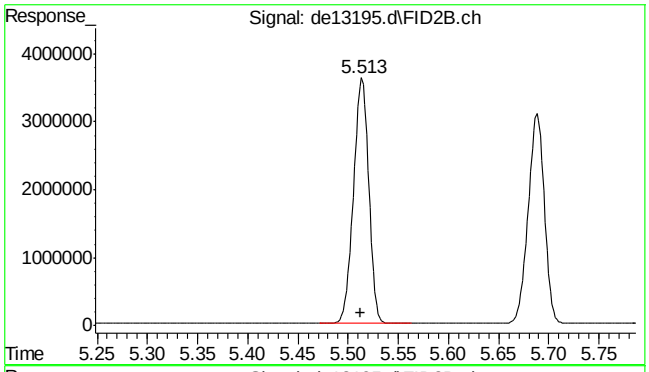
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

9.4.5

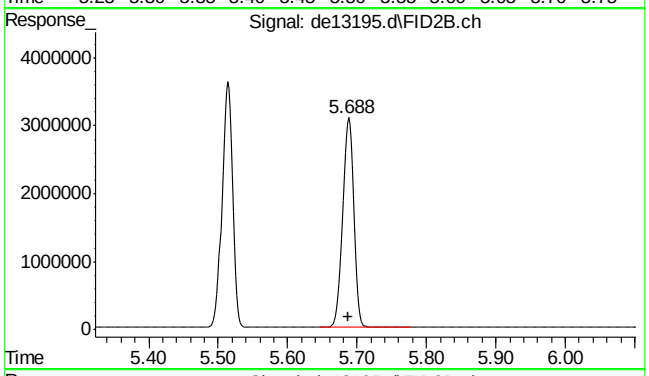
9

SGS ACCUTEST MC45969



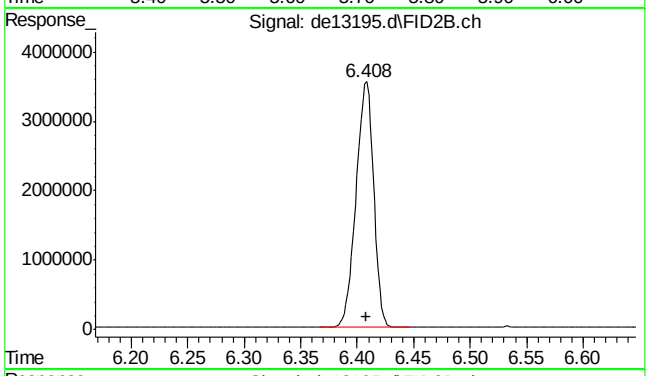
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



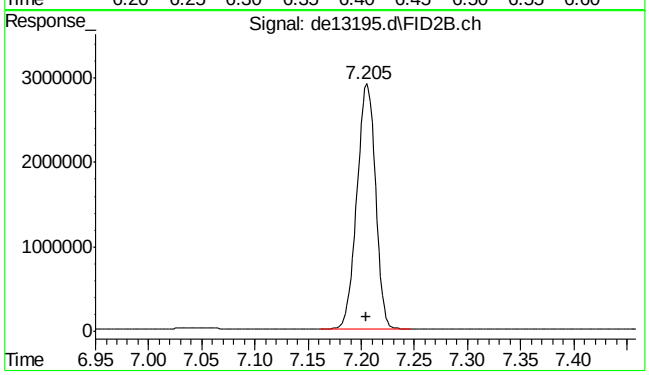
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3545795
Conc: 46.34 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3803724
Conc: 46.79 µg/ml



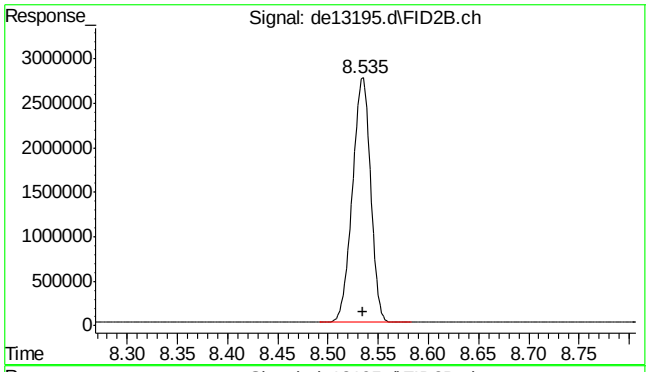
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

9.4.5

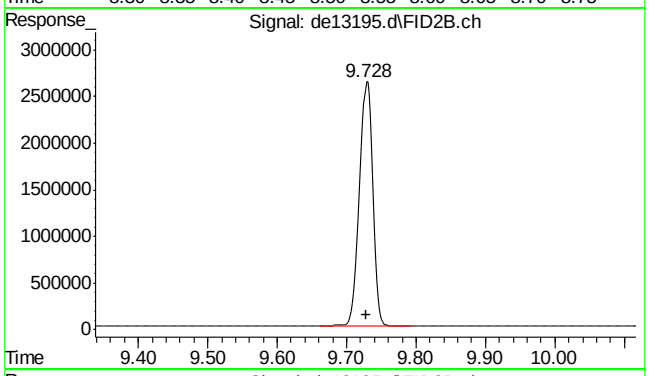
9

SGS ACCUTEST MC45969



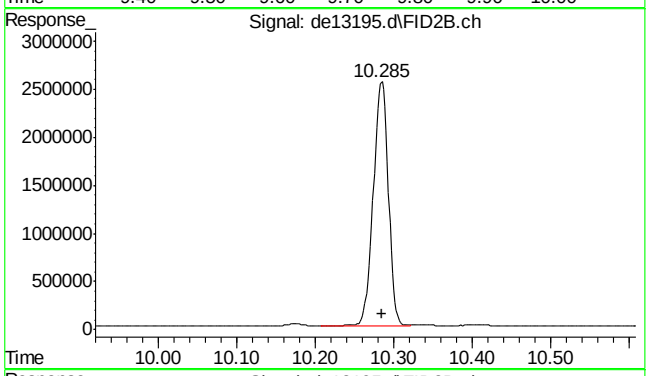
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



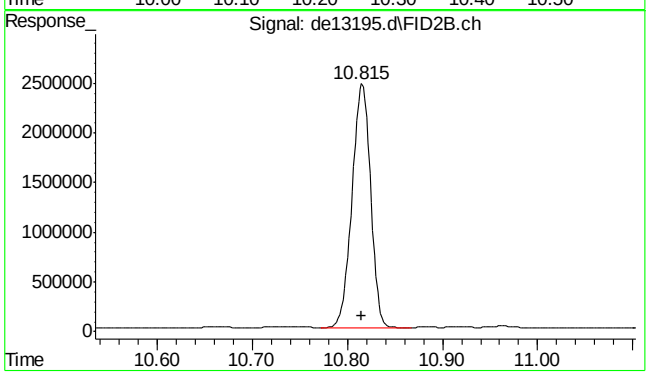
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



#33 c-19

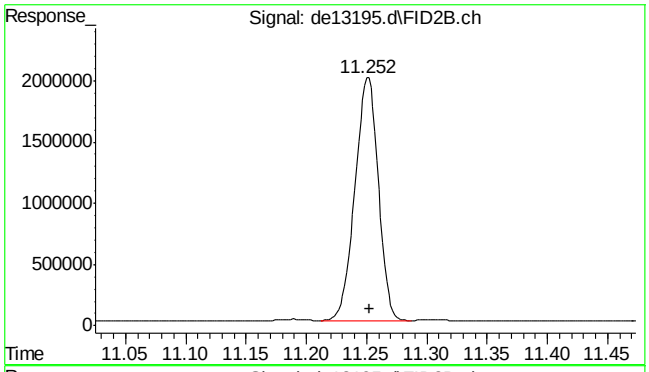
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



#34 c-20

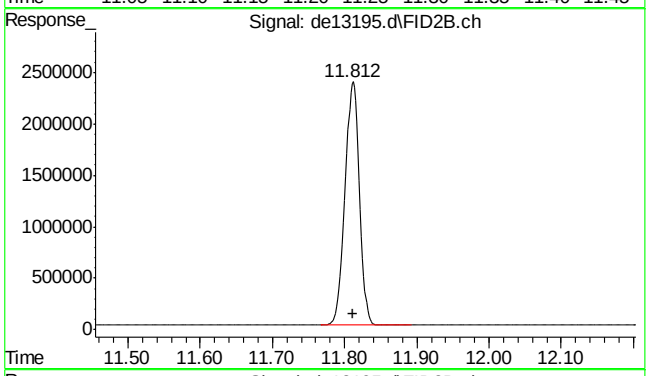
R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml

SGS ACCUTEST MC45969



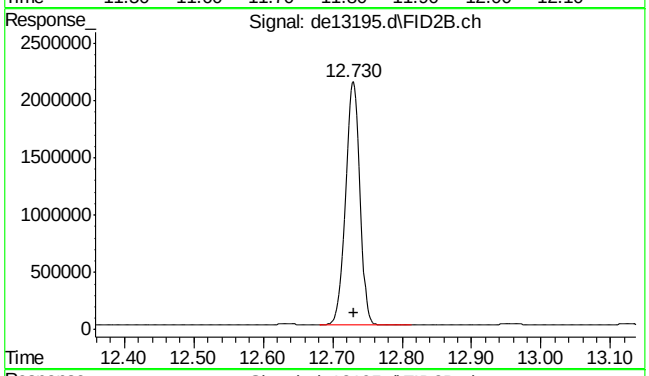
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



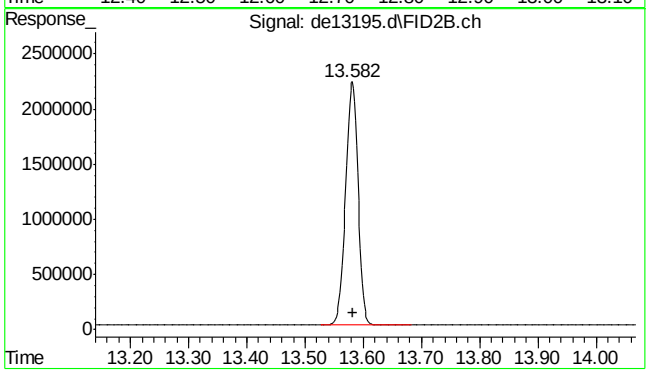
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3288115
Conc: 46.44 µg/ml



#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3065680
Conc: 45.78 µg/ml



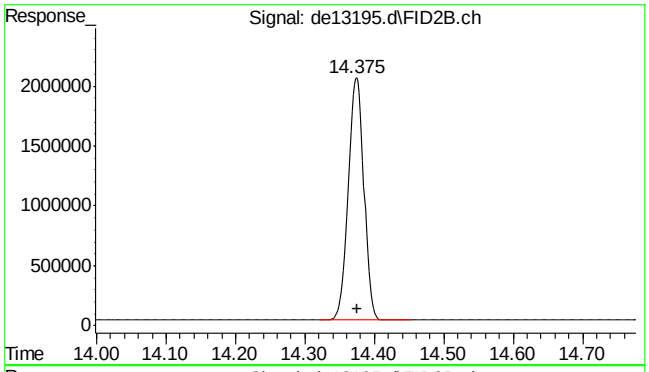
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml

9.4.5

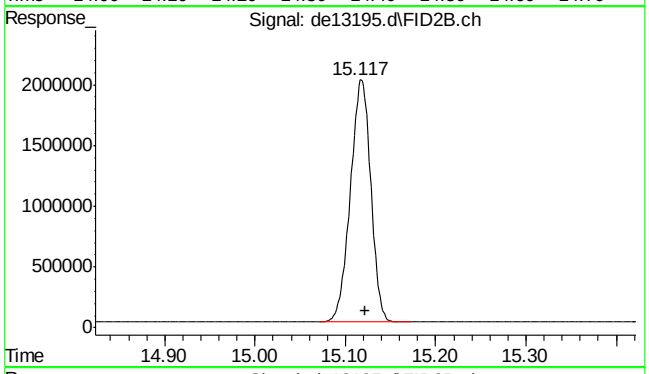
9

SGS ACCUTEST MC45969



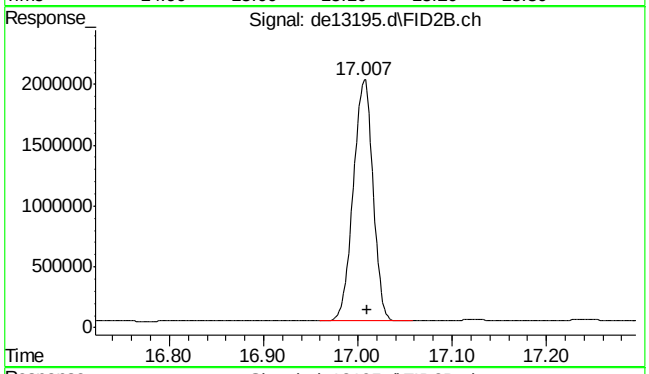
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



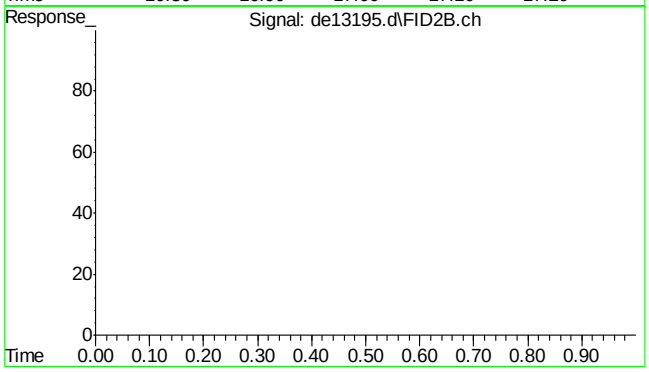
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3152151
Conc: 45.84 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2883025
Conc: 47.18 µg/ml m



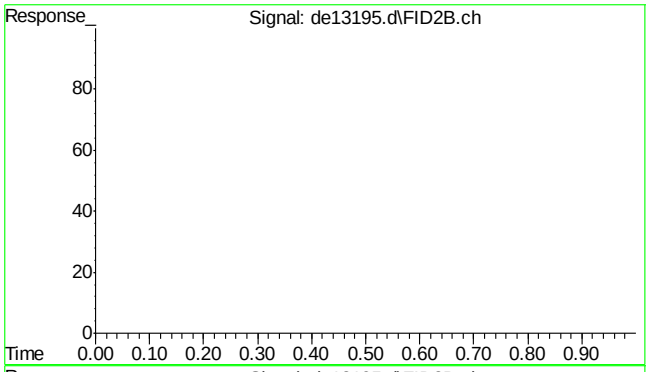
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.5

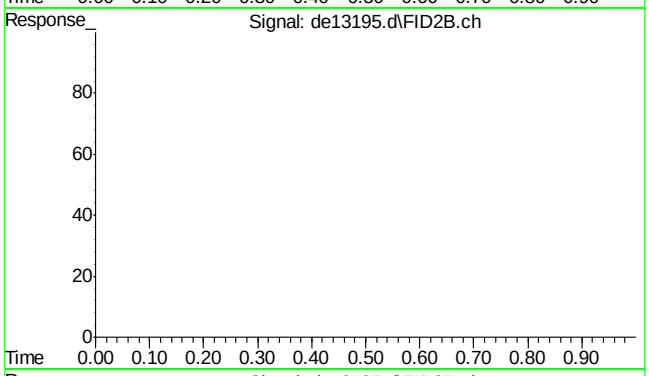
9

SGS ACCUTEST MC45969



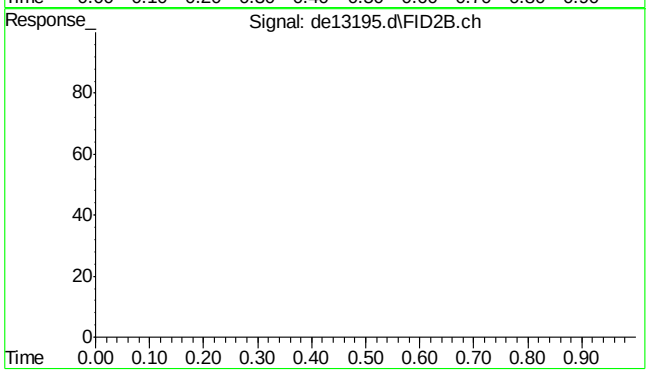
#43 bht

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.

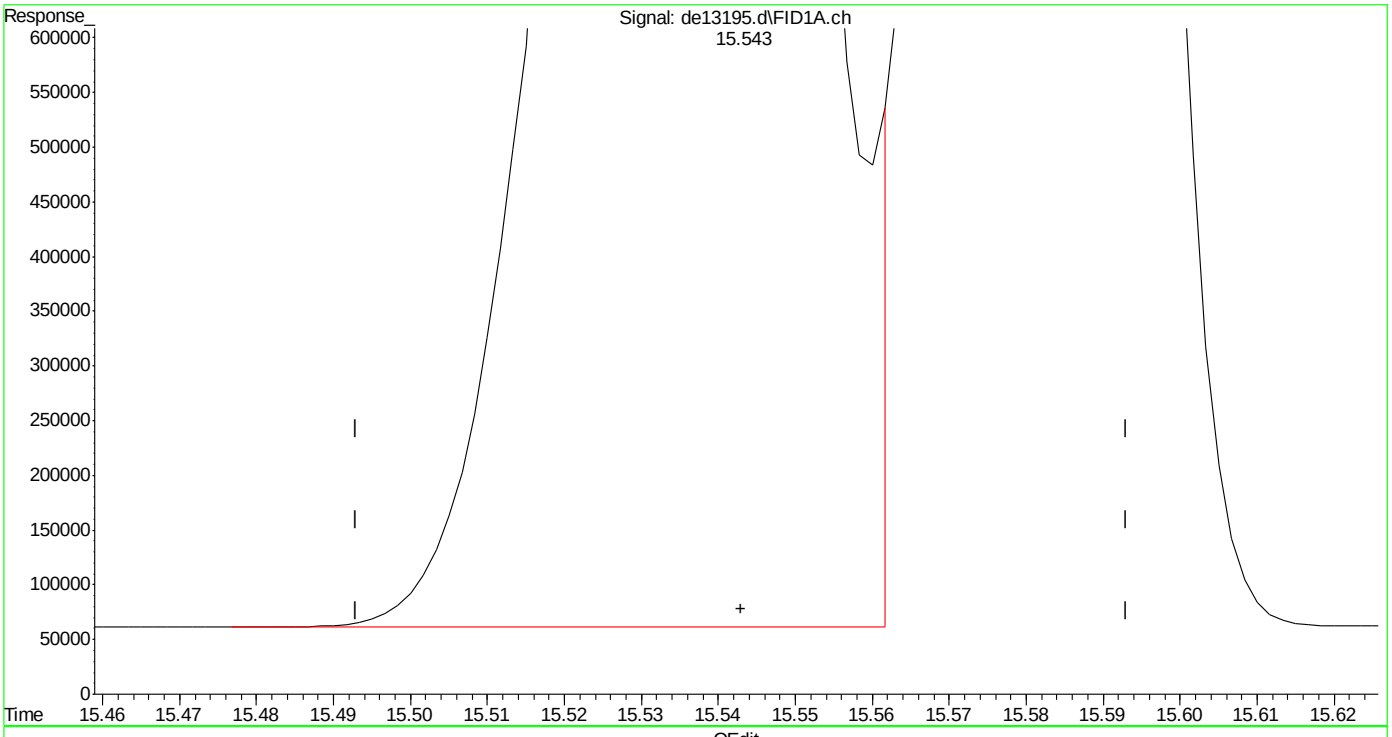
SGS ACCUTEST MC45969

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

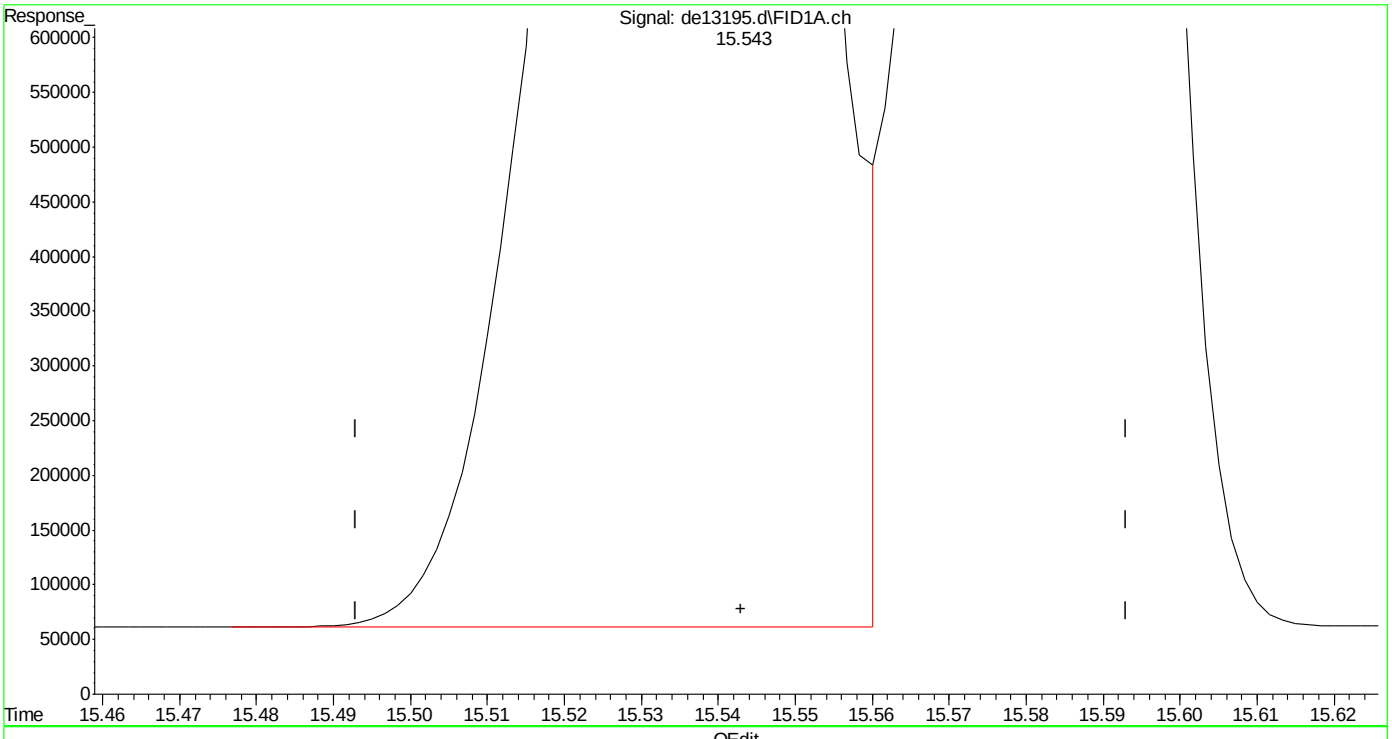
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.543min 50.326 µg/ml m
response 4854725

(+) = Expected Retention Time

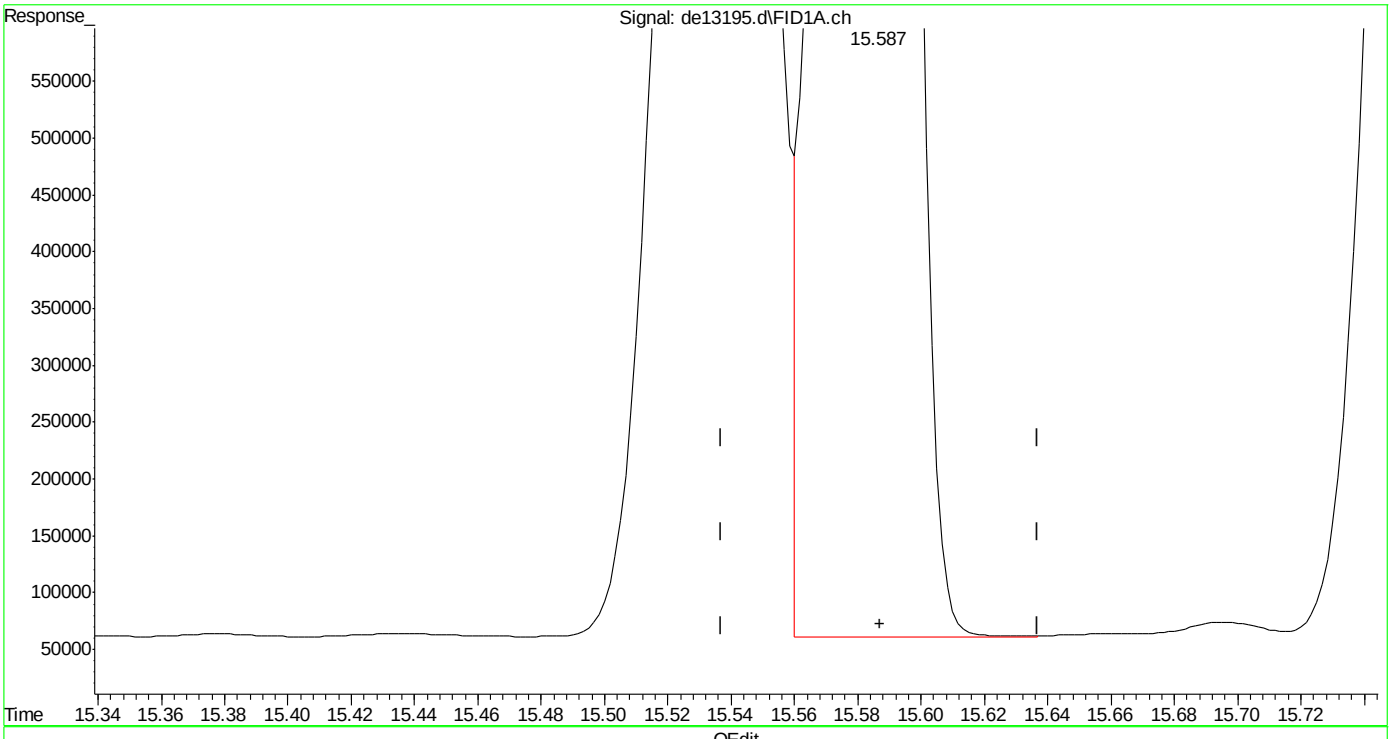
EPH160204M.M Fri Feb 05 10:56:17 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.587min 50.795 µg/ml m
response 4685536

(+) = Expected Retention Time

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.

9.4.6

9

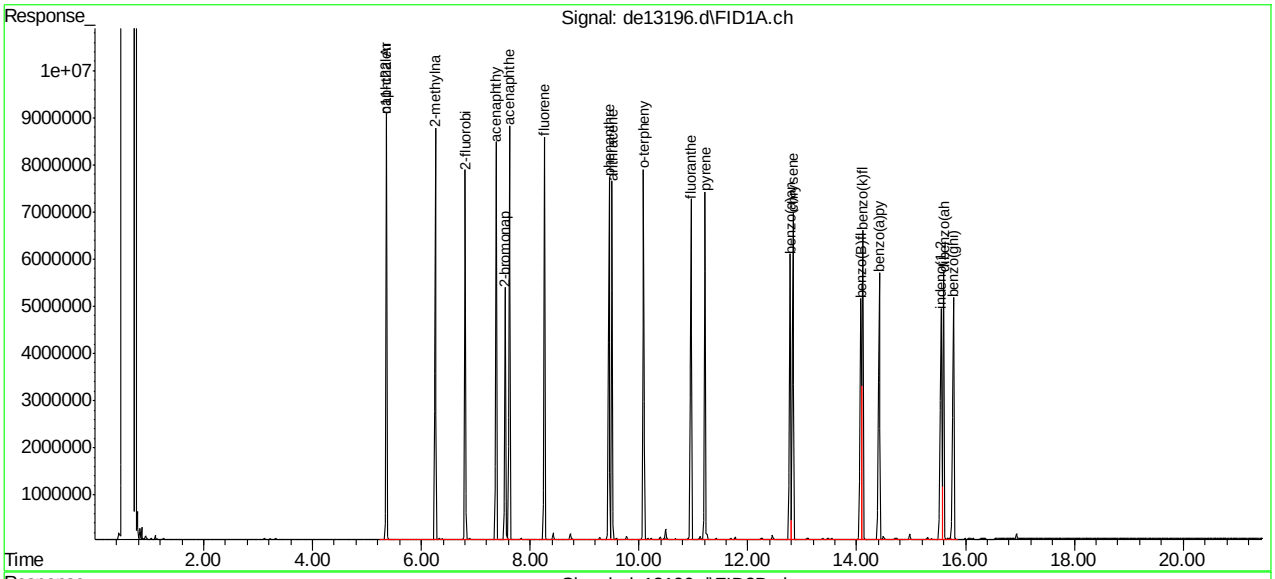
SGS ACCUTEST MC45969

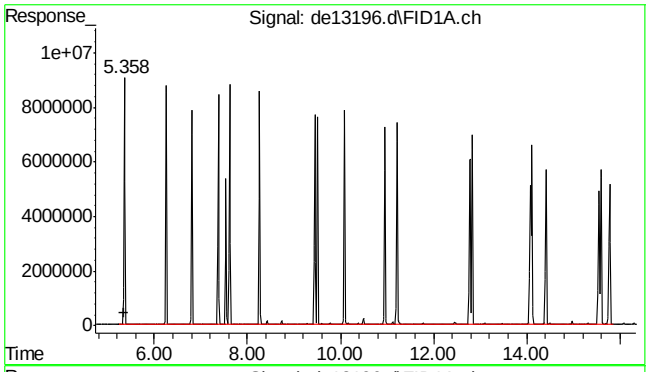
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

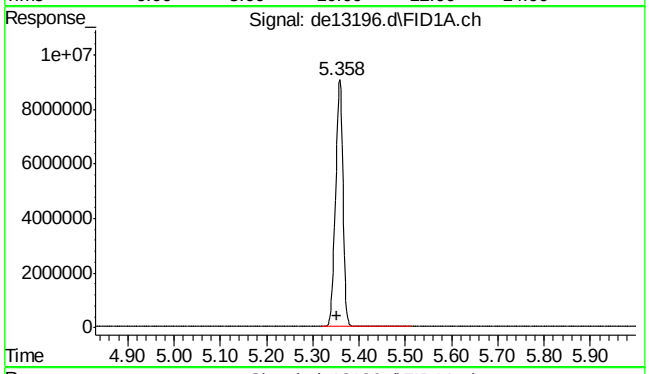
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





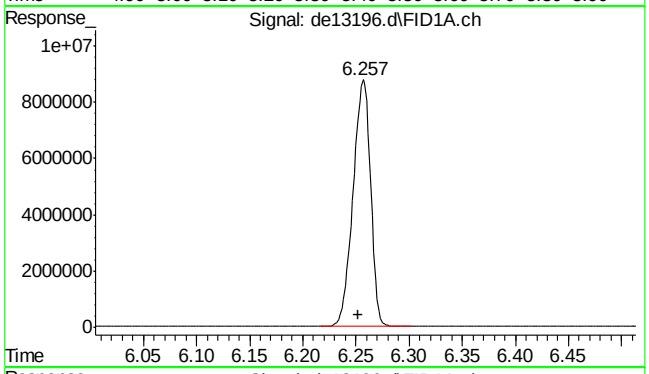
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



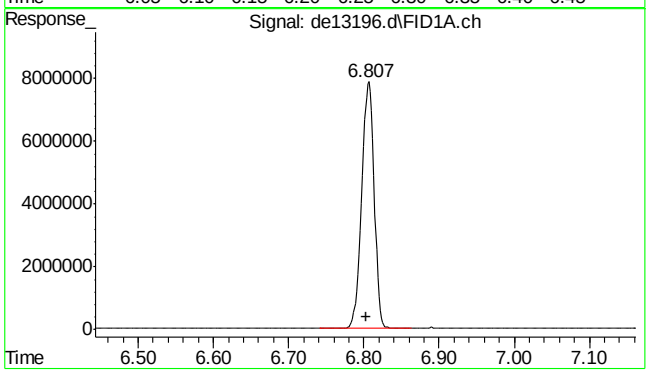
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



#3 2-methylnaphthalene

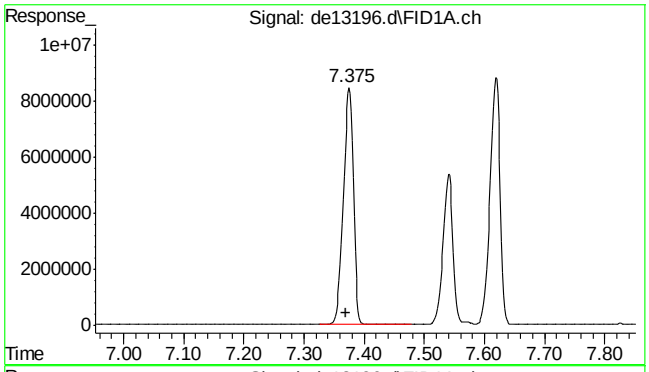
R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



#4 2-fluorobiphenyl

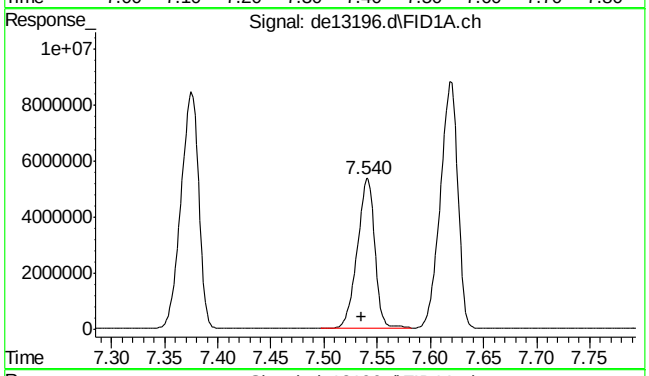
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml

SGS ACCUTEST MC45969



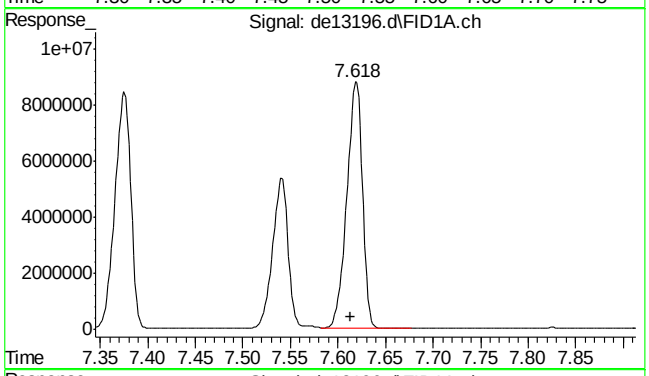
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



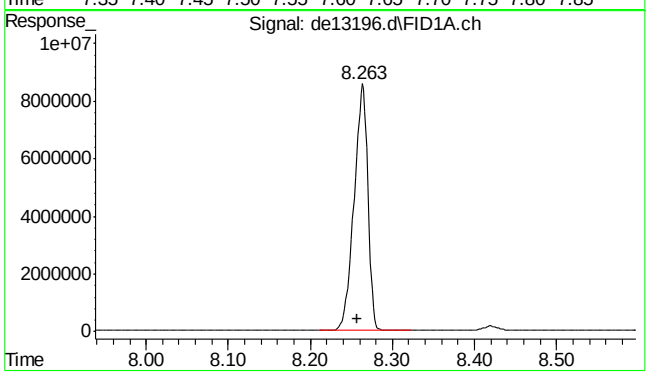
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 6121297
Conc: 96.50 µg/ml



#7 acenaphthene

R.T.: 7.618 min
Delta R.T.: 0.005 min
Response: 10095451
Conc: 96.62 µg/ml



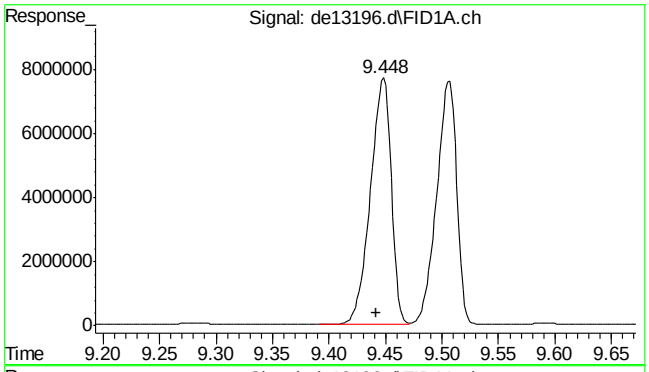
#8 fluorene

R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

9.4.6

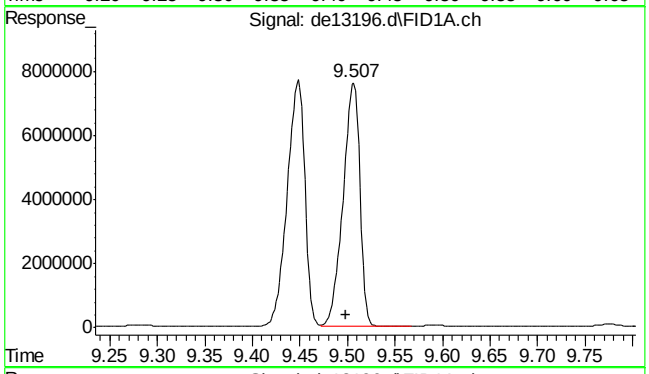
9

SGS ACCUTEST MC45969



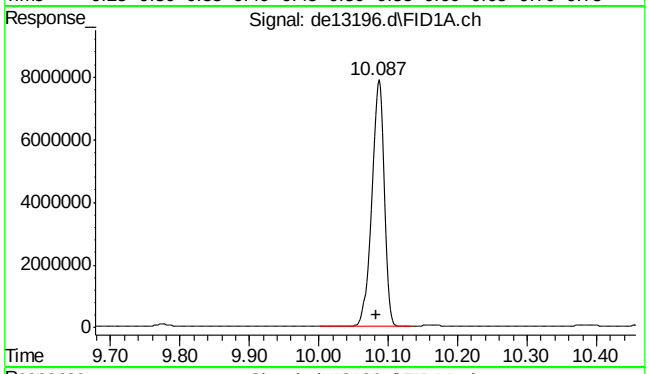
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



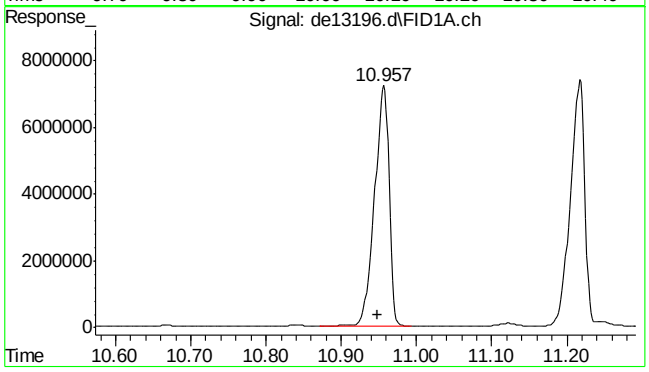
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



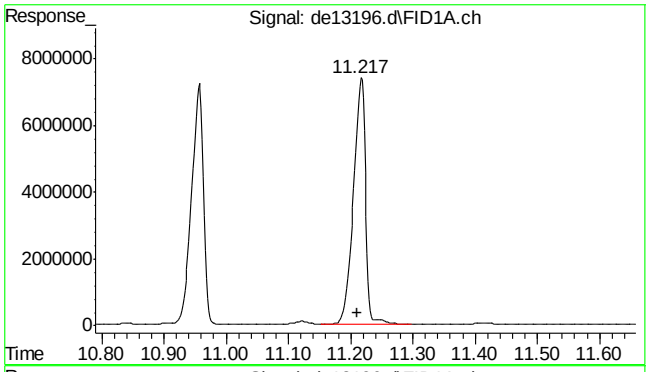
#12 fluoranthene

R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

9.4.6

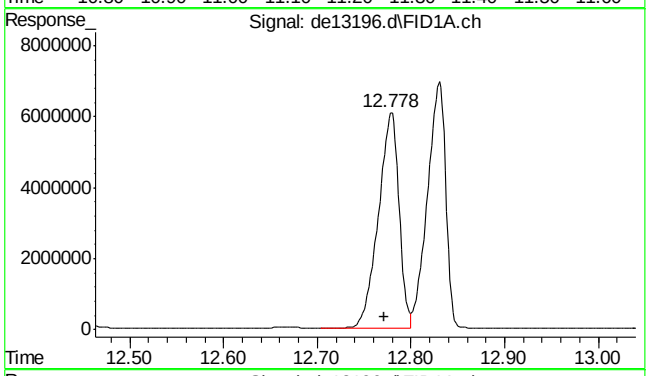
9

SGS ACCUTEST MC45969



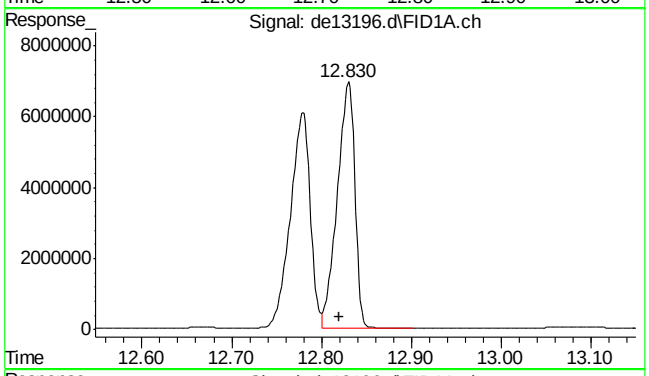
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



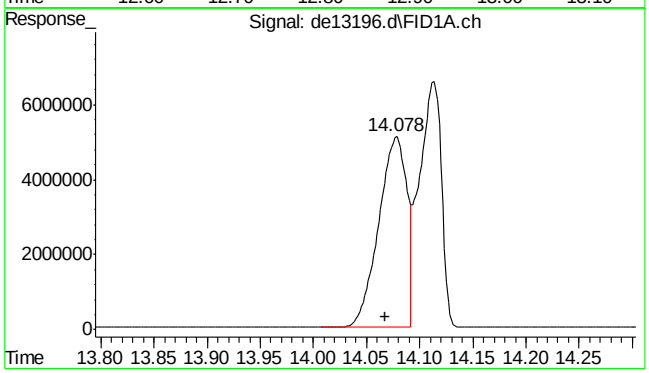
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



#15 chrysene

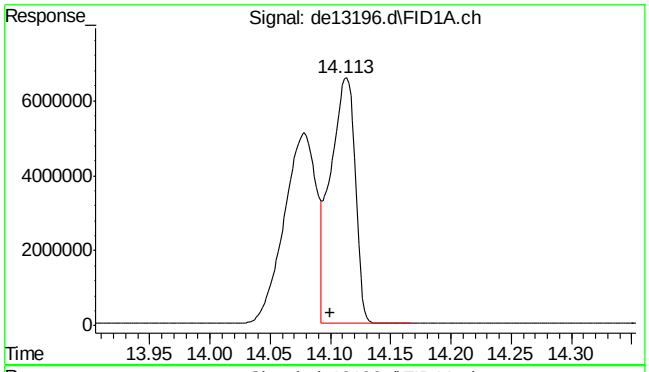
R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



#16 benzo(B)fluoranthene

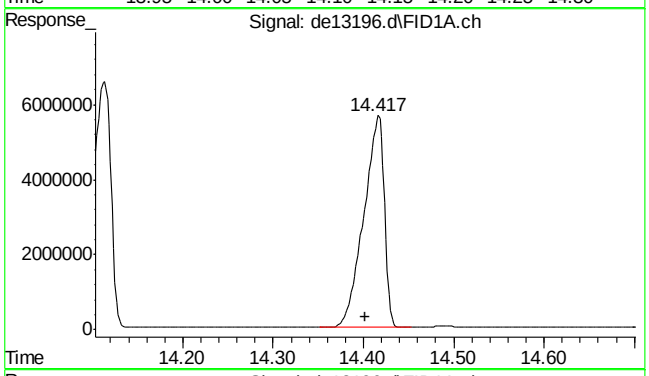
R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml

SGS ACCUTEST MC45969



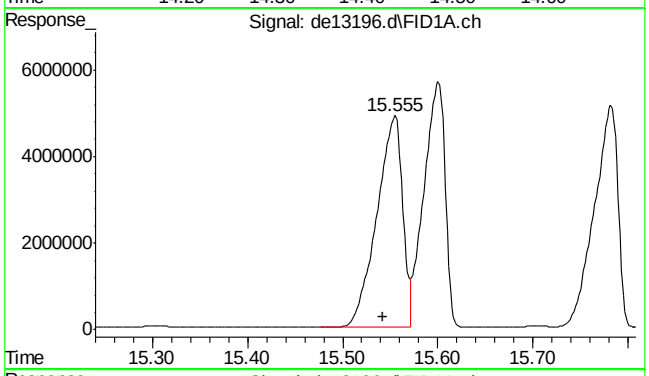
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



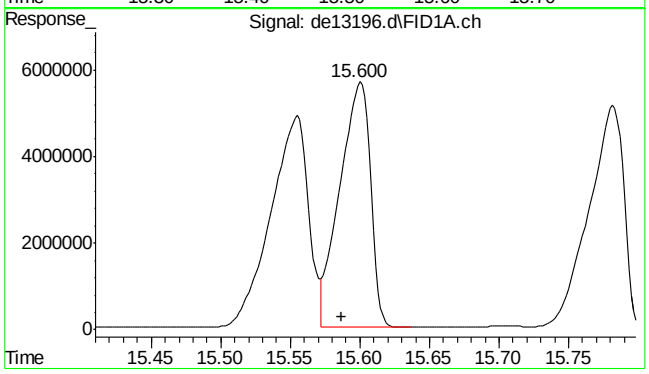
#18 benzo(a)pyrene

R.T.: 14.417 min
Delta R.T.: 0.015 min
Response: 8964794
Conc: 95.71 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.555 min
Delta R.T.: 0.012 min
Response: 9240715
Conc: 95.92 µg/ml



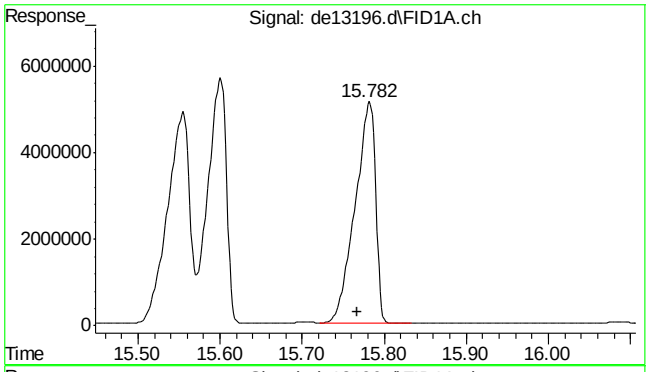
#20 dibenzo(ah)anthracene

R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml

9.4.6

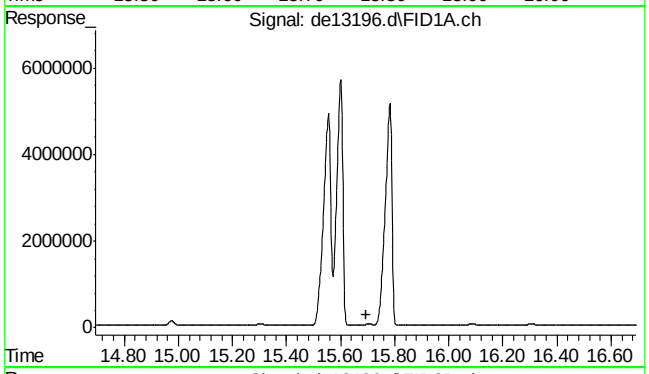
9

SGS ACCUTEST MC45969



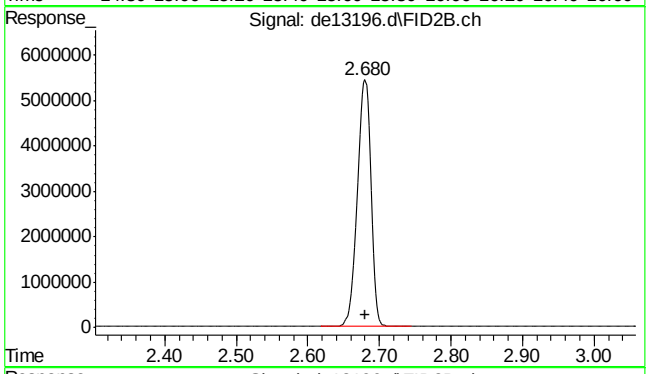
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



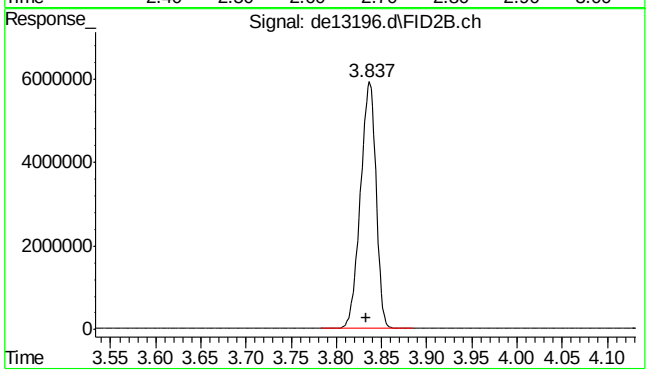
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 7080731
Conc: 92.72 µg/ml m



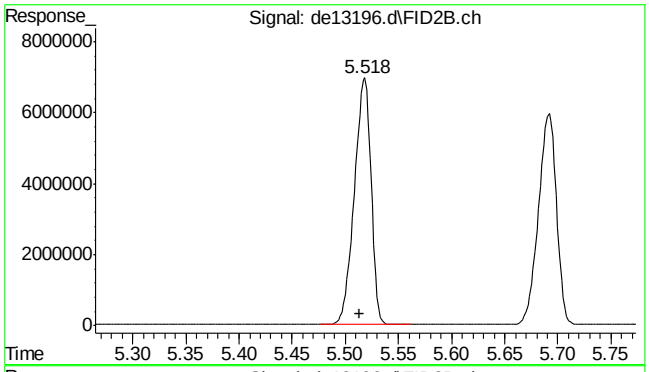
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

9.4.6

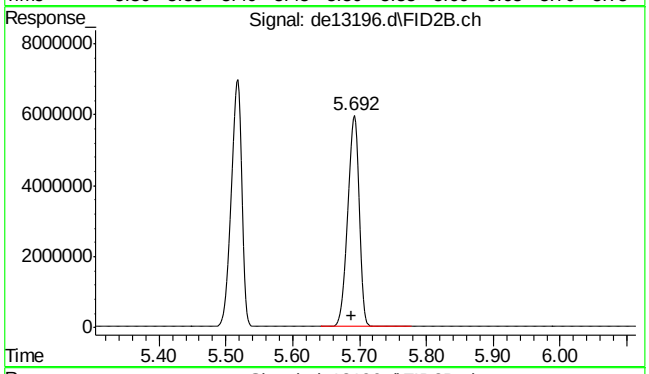
9

SGS ACCUTEST MC45969



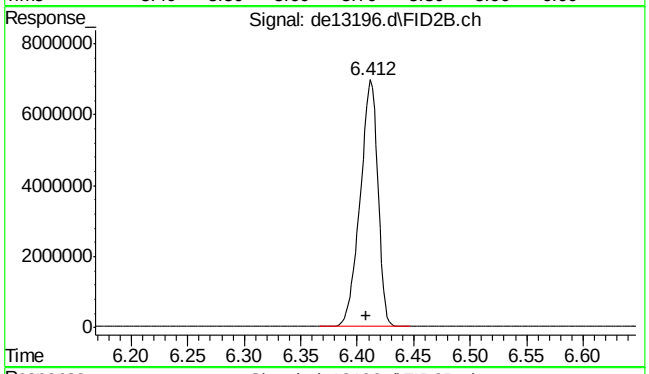
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



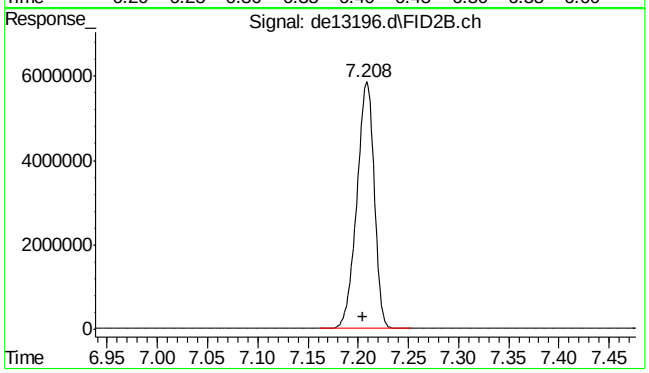
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



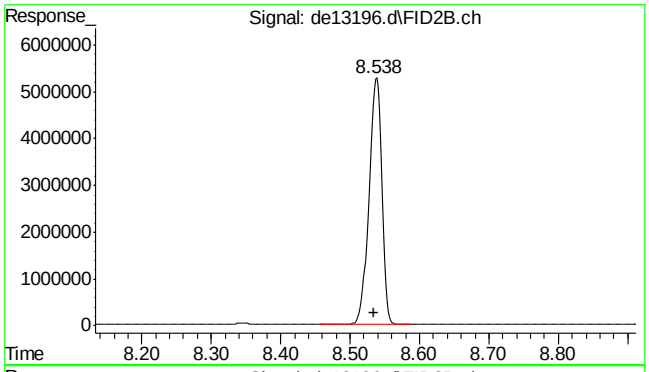
#30 c-14

R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml

9.4.6

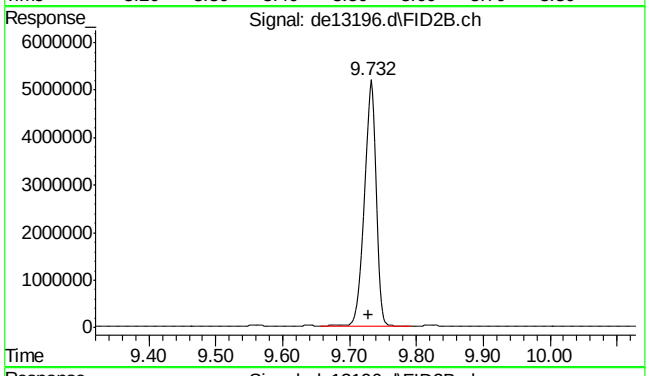
9

SGS ACCUTEST MC45969



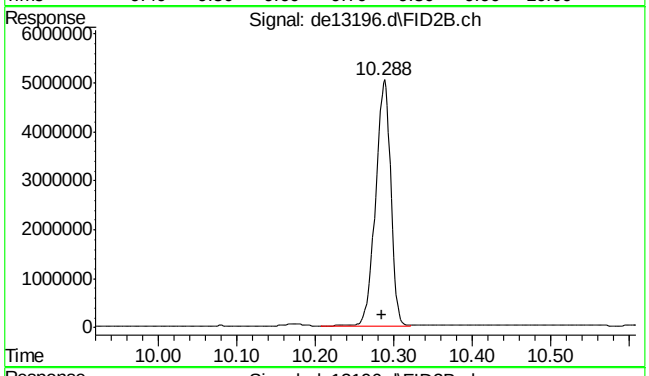
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



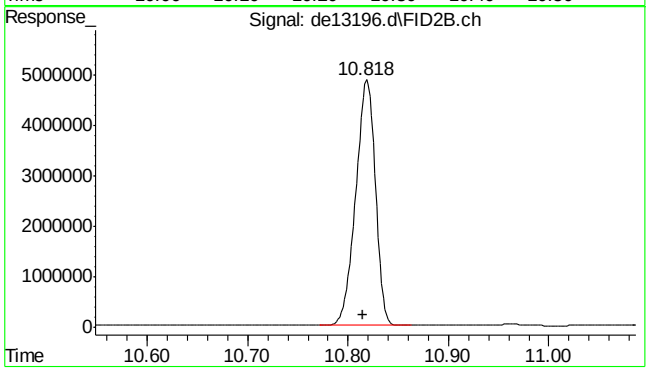
#32 c-18

R.T.: 9.732 min
Delta R.T.: 0.004 min
Response: 6758324
Conc: 90.12 µg/ml



#33 c-19

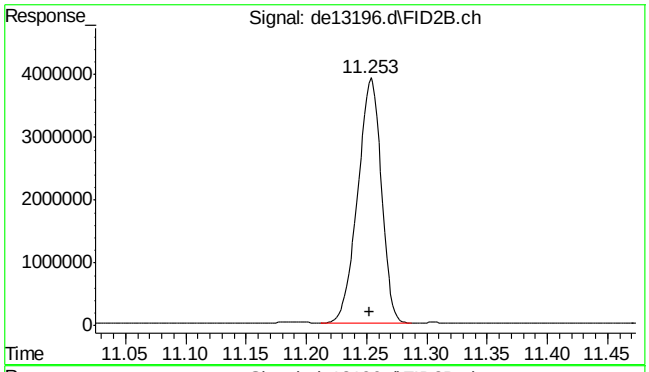
R.T.: 10.288 min
Delta R.T.: 0.003 min
Response: 6704725
Conc: 91.45 µg/ml



#34 c-20

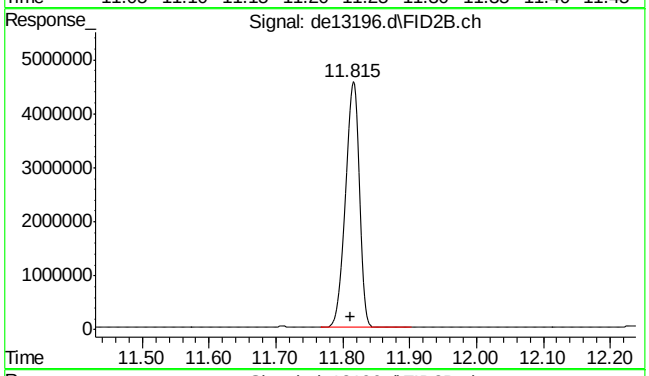
R.T.: 10.818 min
Delta R.T.: 0.003 min
Response: 6591283
Conc: 91.77 µg/ml

SGS ACCUTEST MC45969



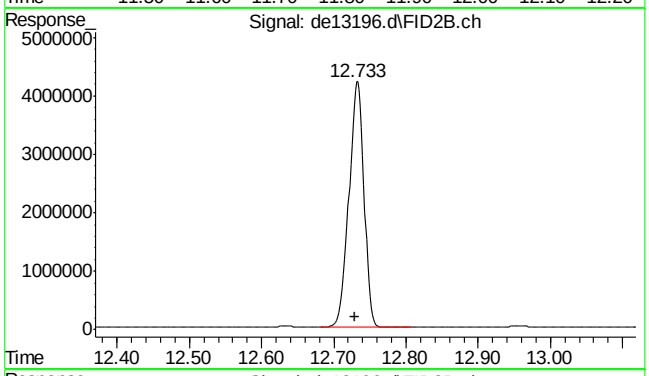
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



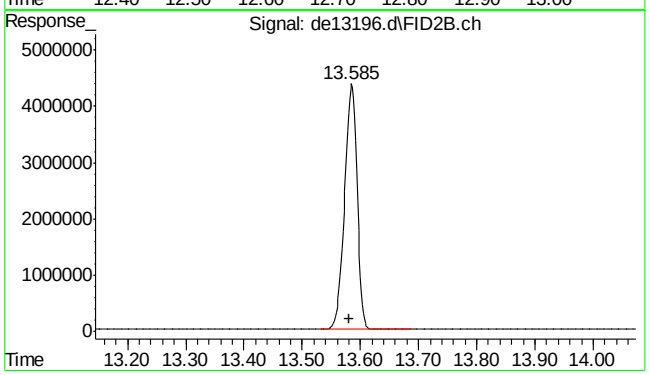
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



#37 c-24

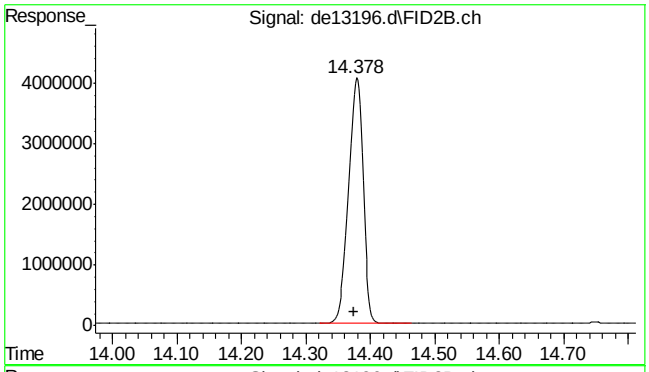
R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



#38 c-26

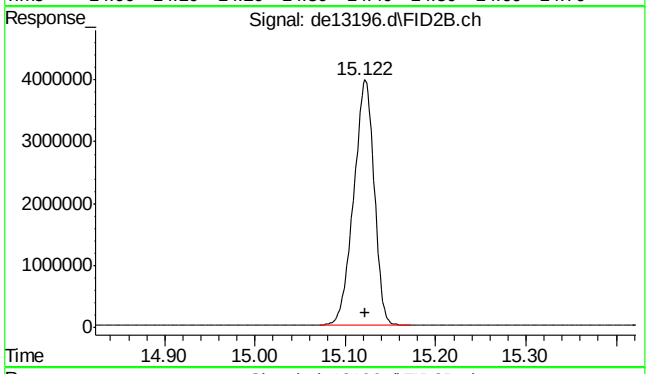
R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml

SGS ACCUTEST MC45969



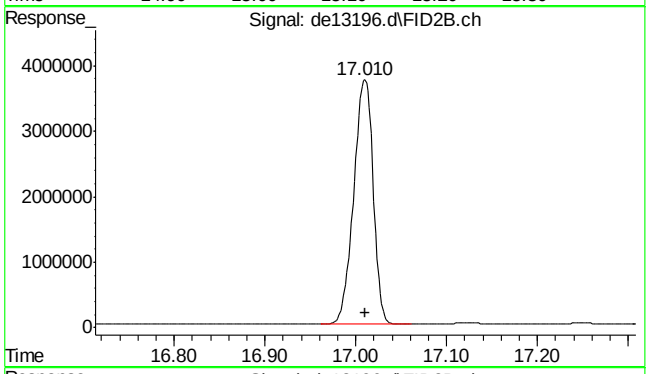
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



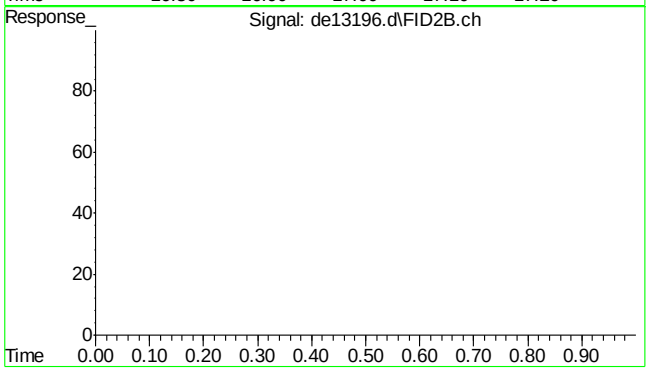
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 6235140
Conc: 90.67 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 5572797
Conc: 91.21 µg/ml m



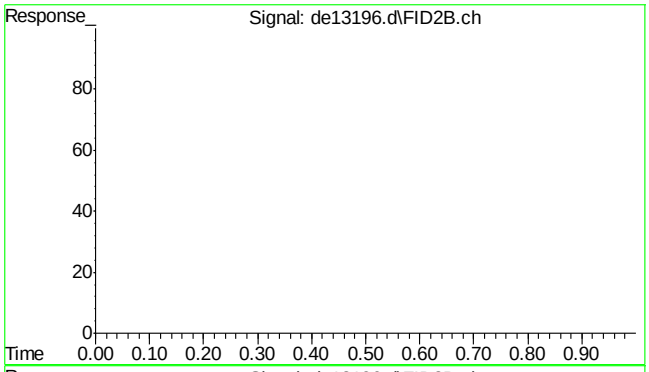
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.6

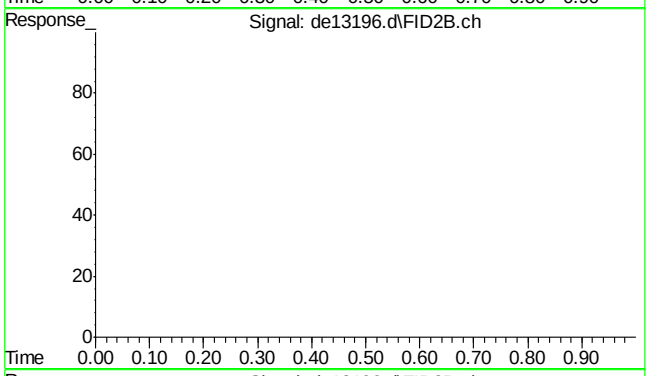
9

SGS ACCUTEST MC45969



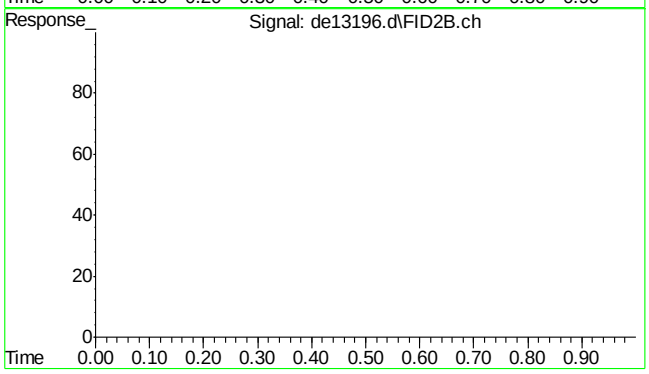
#43 bht

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.

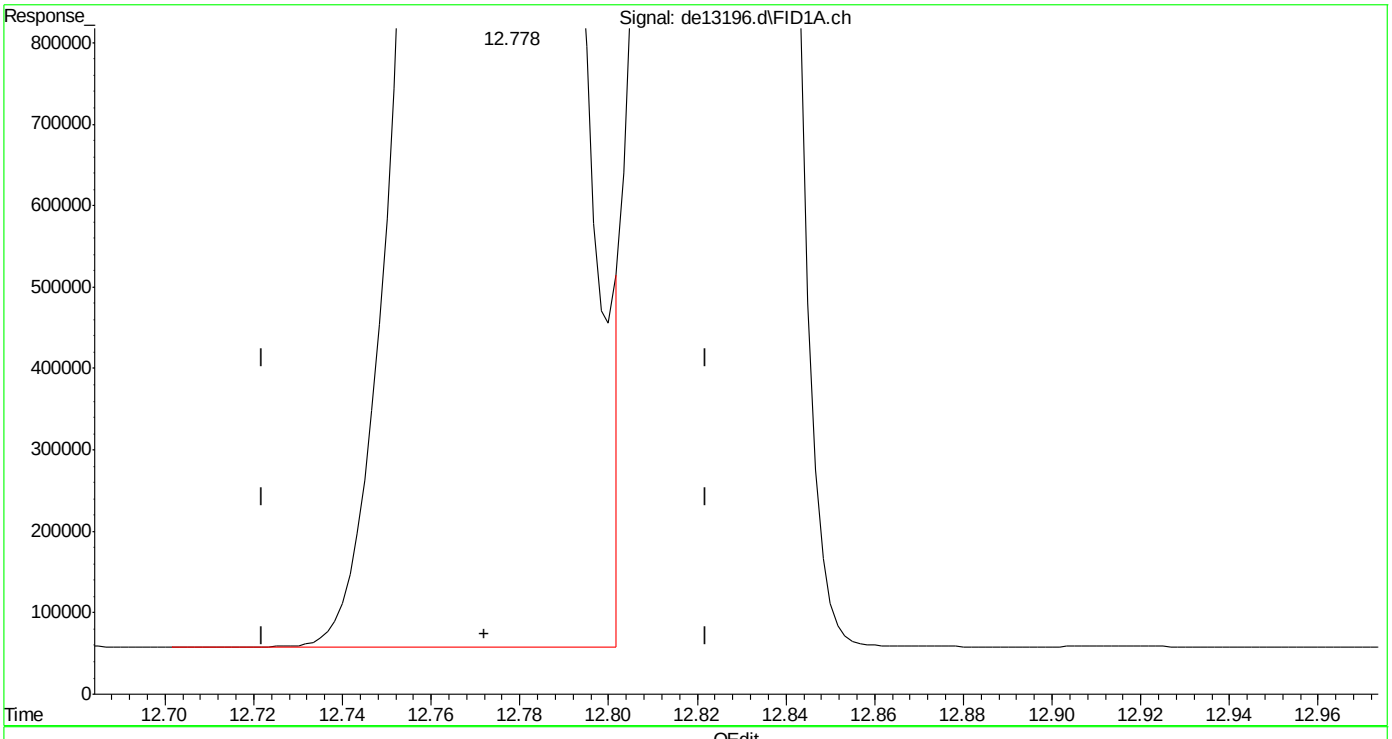
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.778min 96.536 µg/ml
response 9367180

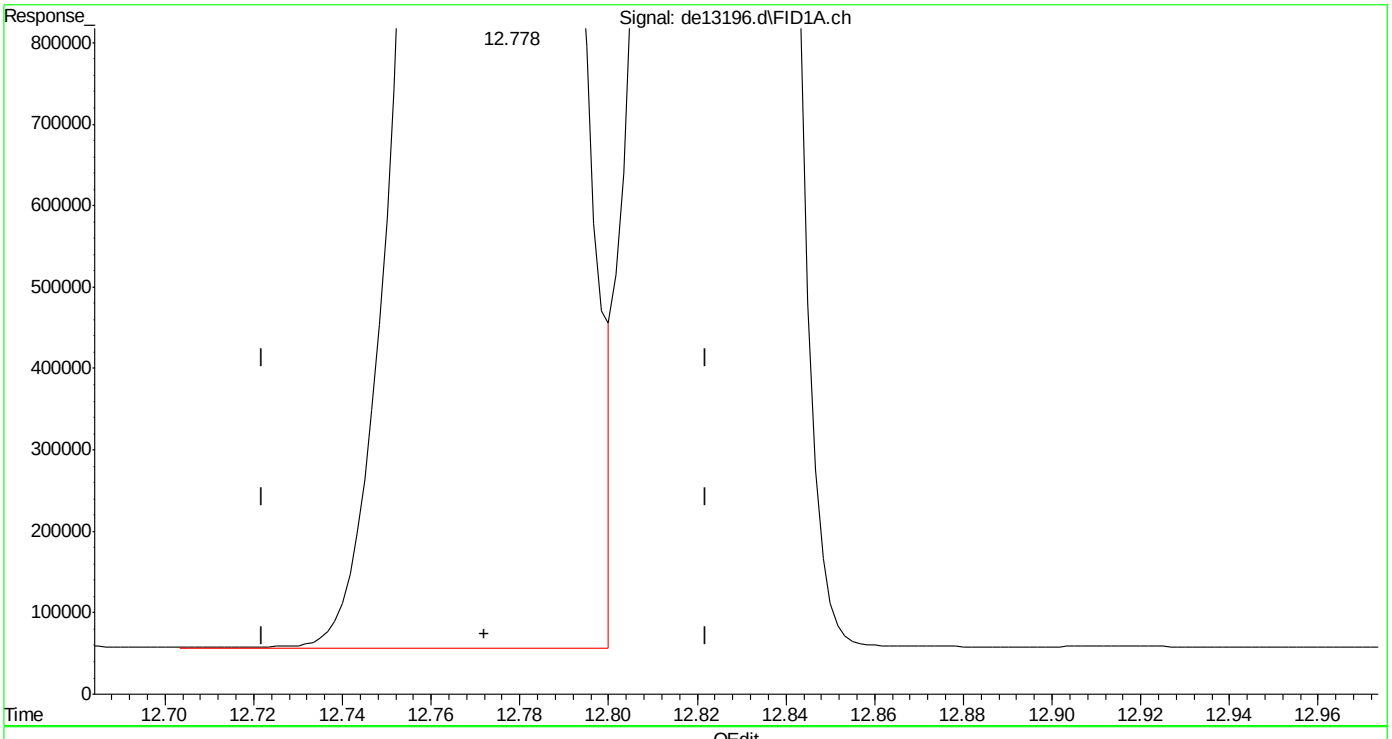
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.778min 96.095 µg/ml m
response 9324427

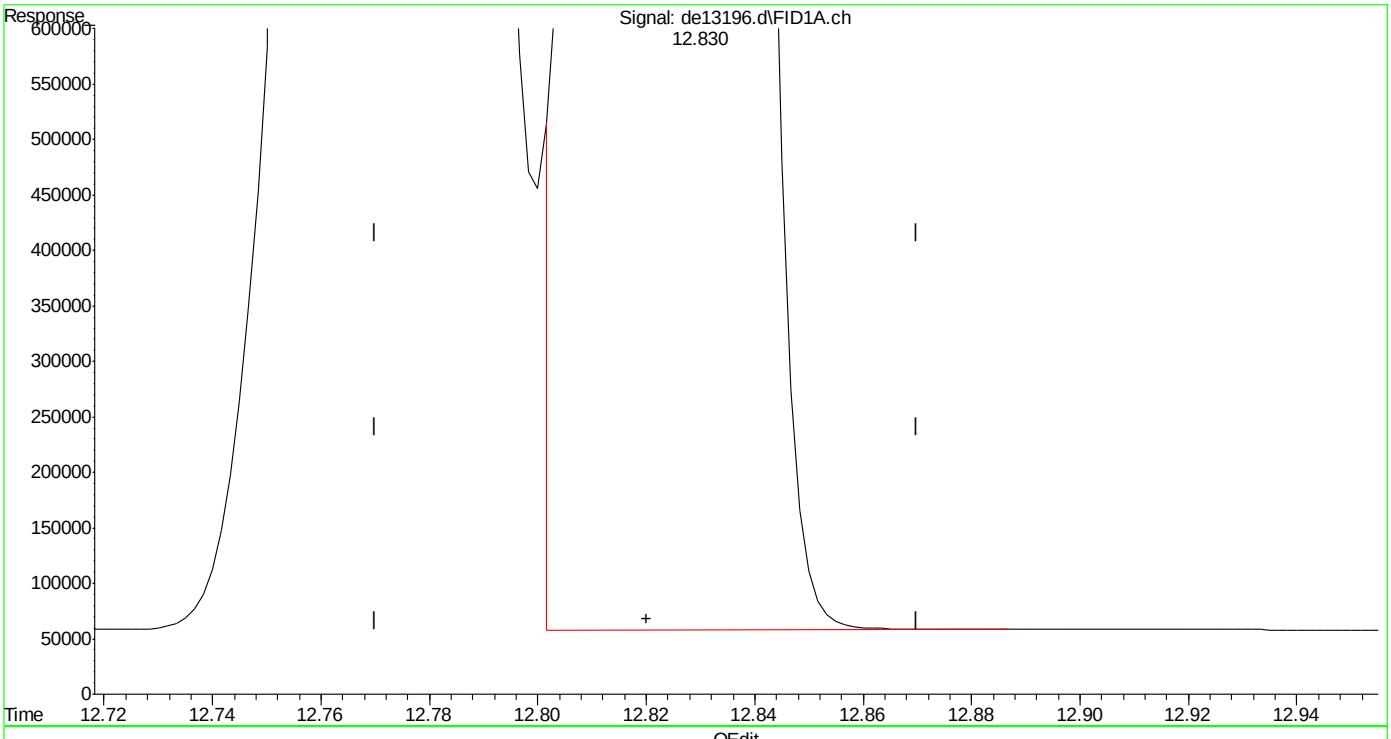
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.830min 95.489 µg/ml
response 9333760

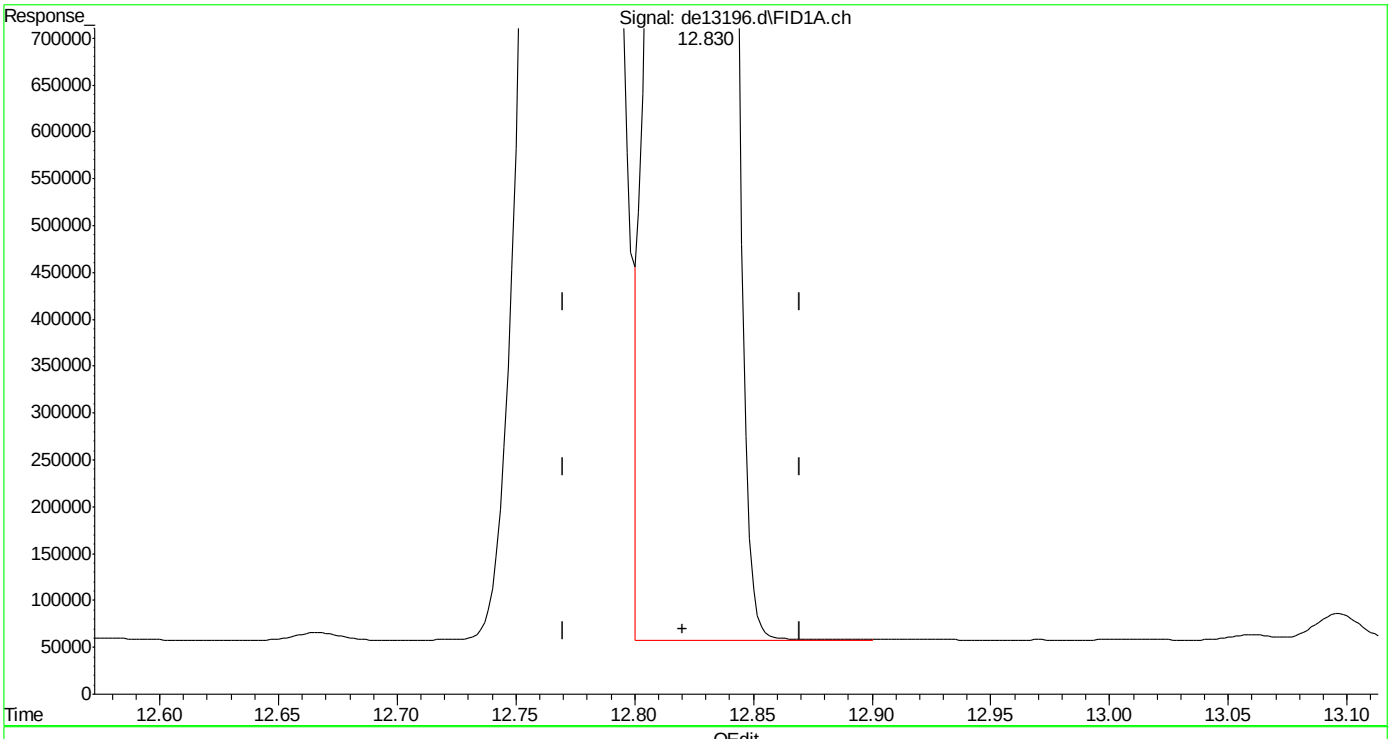
(+) = Expected Retention Time

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

SGS ACCUTEST MC45969

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
38)	c-26	13.592	12045195	173.683	µg/ml
39)	c-28	14.385	11646376	173.584	µg/ml
40) h	c-30	15.122	11593413	170.863	µg/ml
41) h	c-36	17.010	10854654	179.925	µg/mlm

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

9.4.7

9

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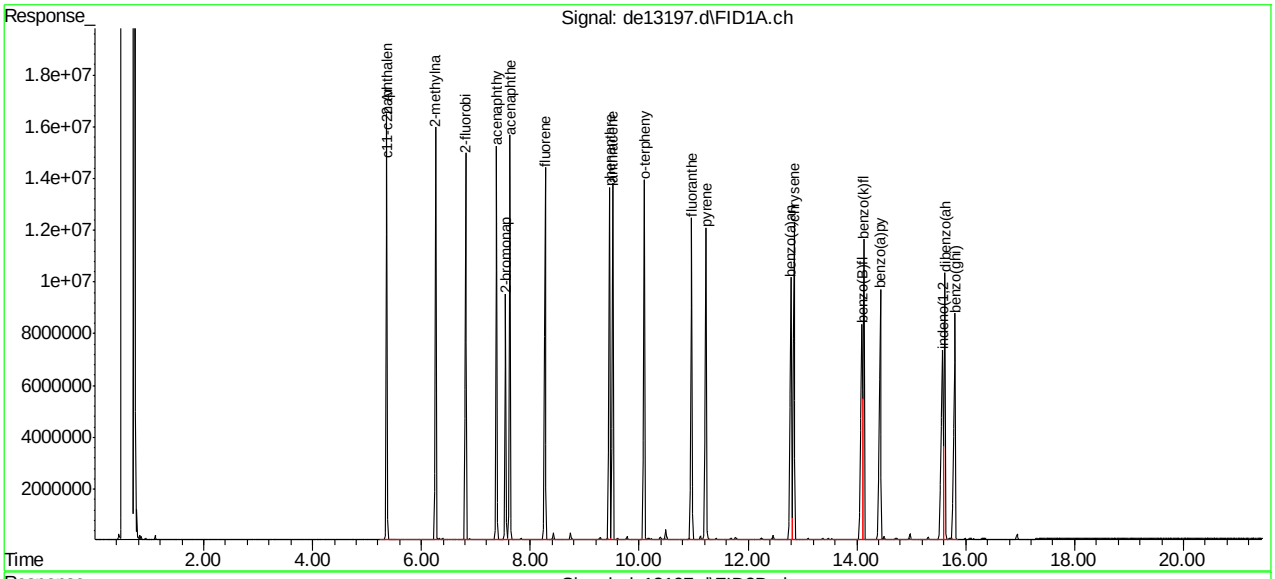
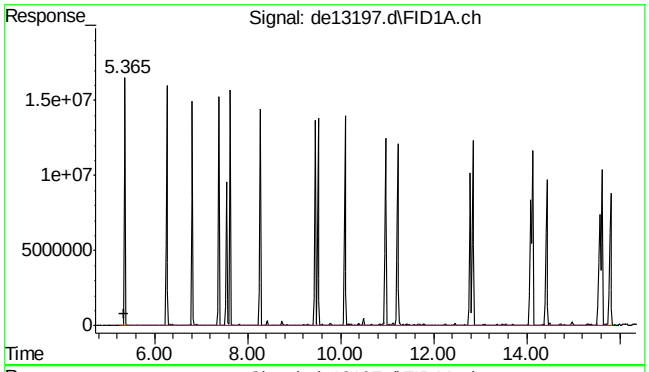
Quantitation Report (QT Reviewed)

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

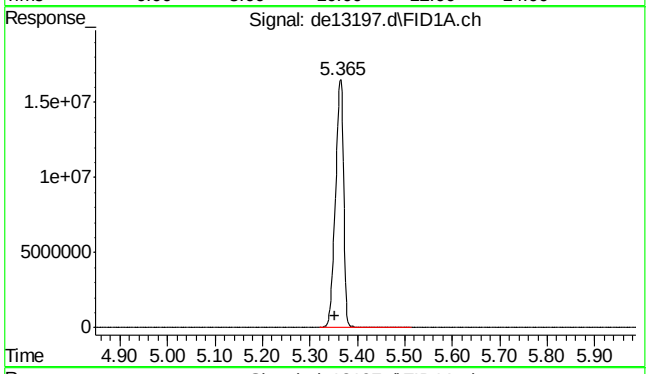
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





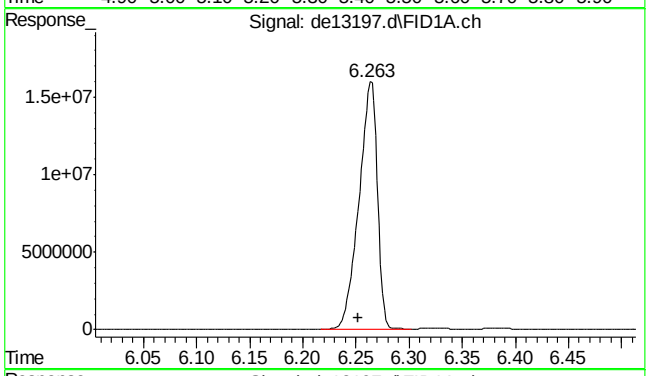
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



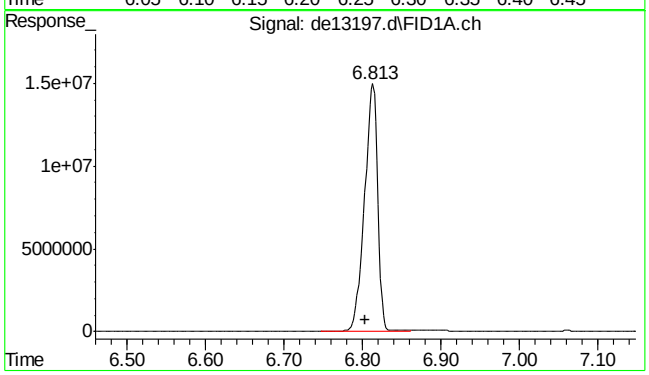
#2 naphthalene

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

9.4.7

9

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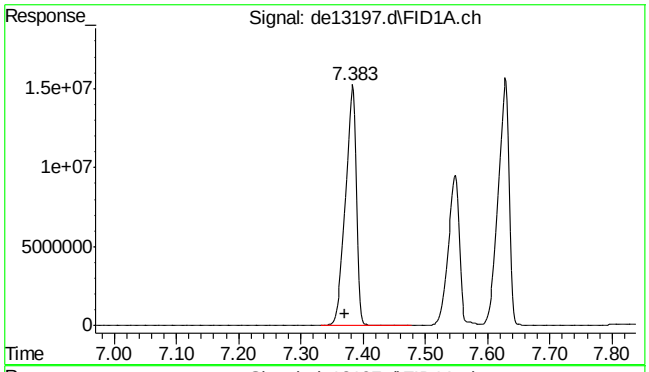
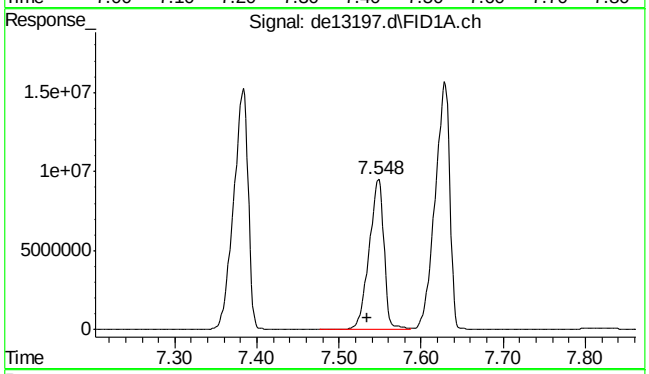


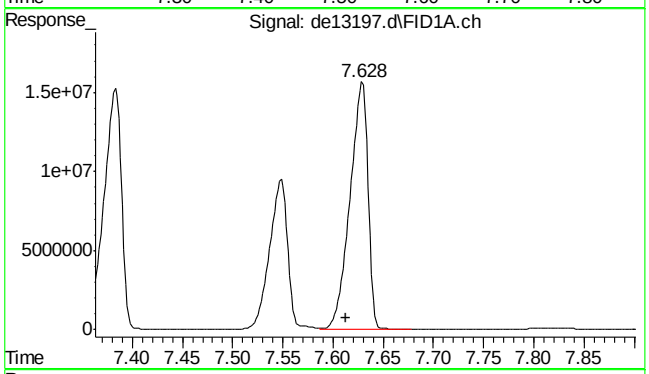
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



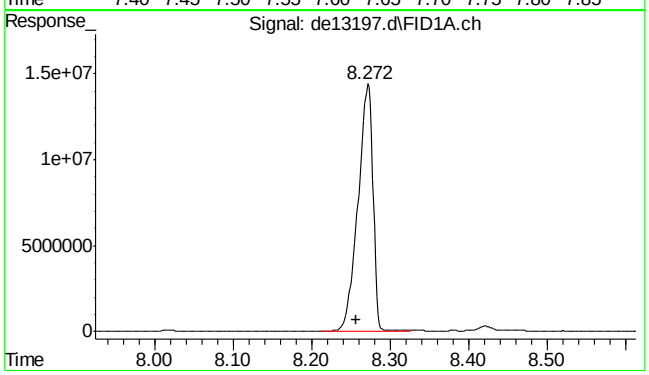
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



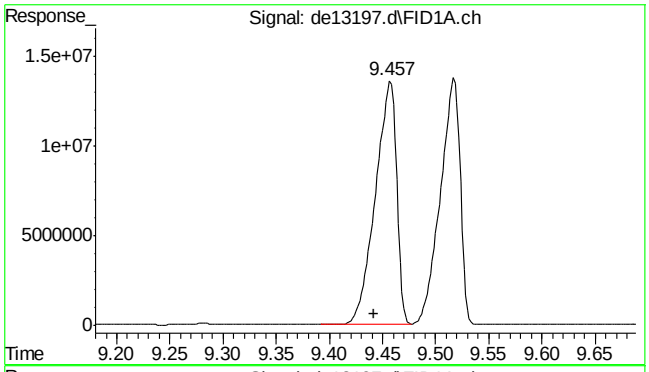
#7 acenaphthene

R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



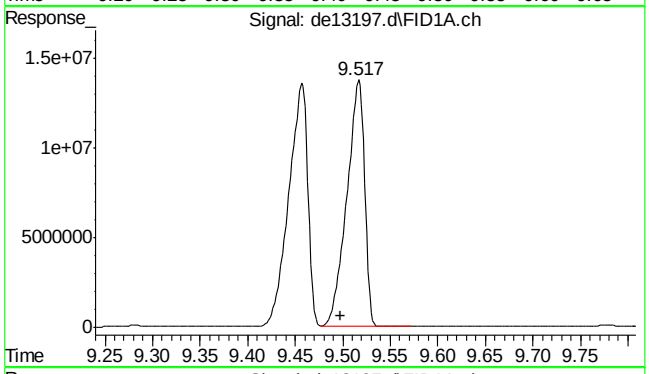
#8 fluorene

R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml



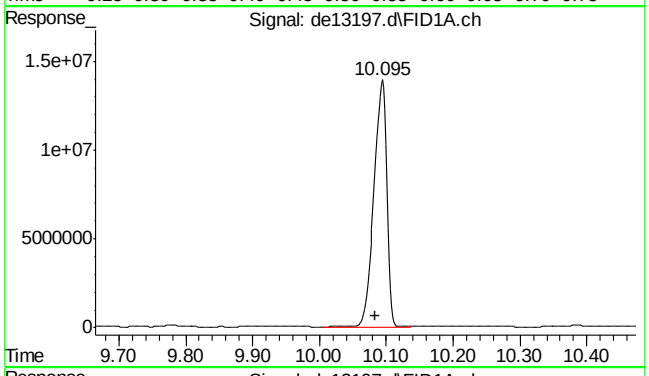
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



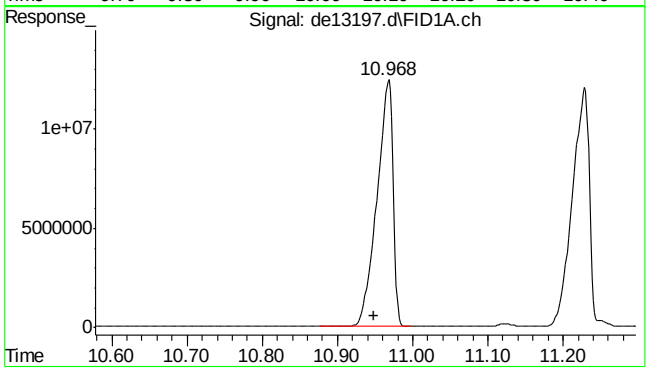
#10 anthracene

R.T.: 9.517 min
Delta R.T.: 0.019 min
Response: 17945874
Conc: 184.82 µg/ml



#11 o-terphenyl

R.T.: 10.095 min
Delta R.T.: 0.012 min
Response: 18995194
Conc: 184.43 µg/ml



#12 fluoranthene

R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml

9.4.7

9

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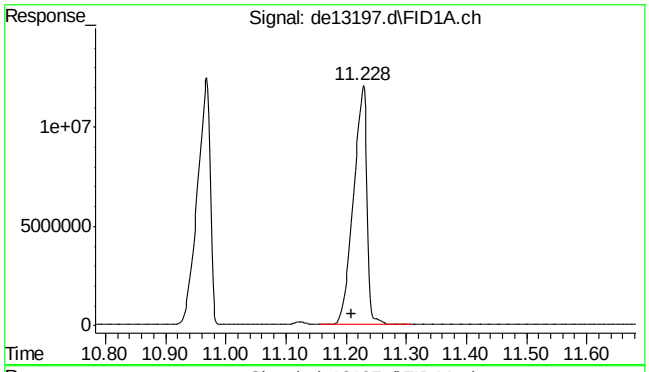
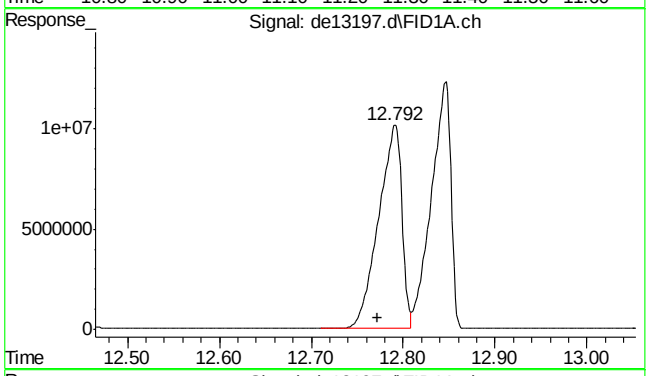


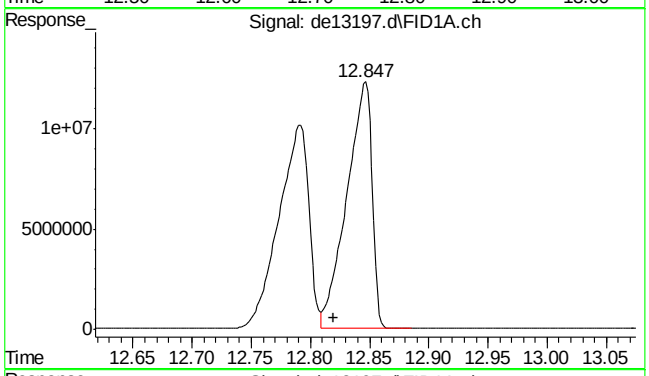
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



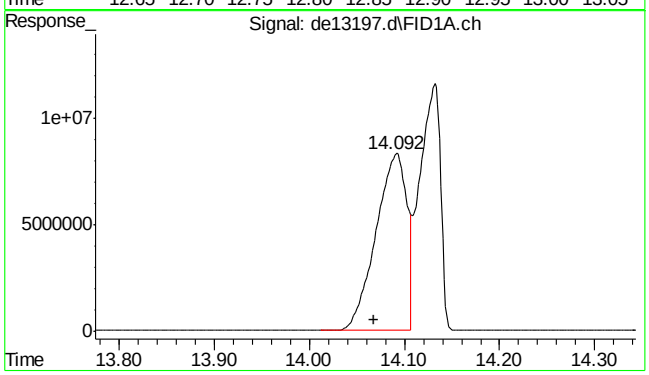
#14 benzo(a)anthracene

R.T.: 12.792 min
Delta R.T.: 0.020 min
Response: 17872955
Conc: 183.62 µg/ml m



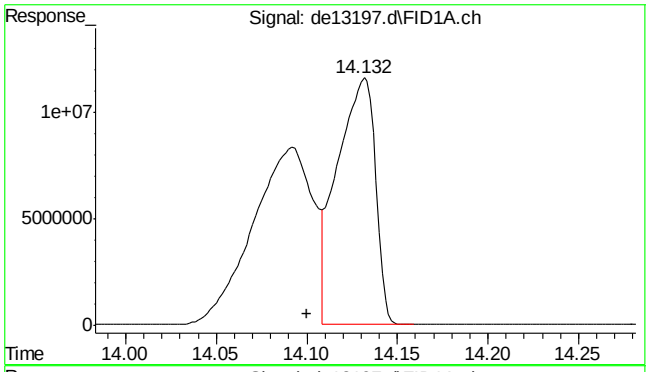
#15 chrysene

R.T.: 12.847 min
Delta R.T.: 0.027 min
Response: 18069681
Conc: 184.43 µg/ml m



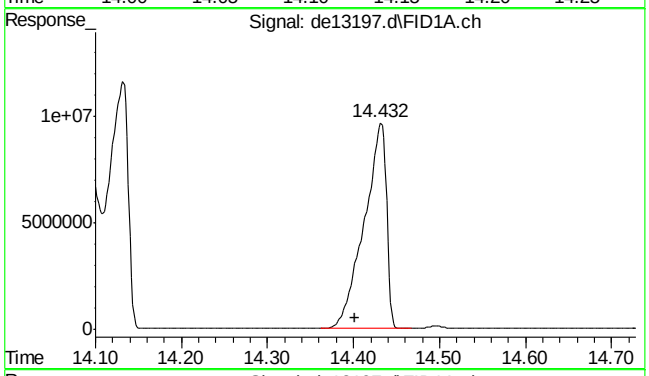
#16 benzo(B)fluoranthene

R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml



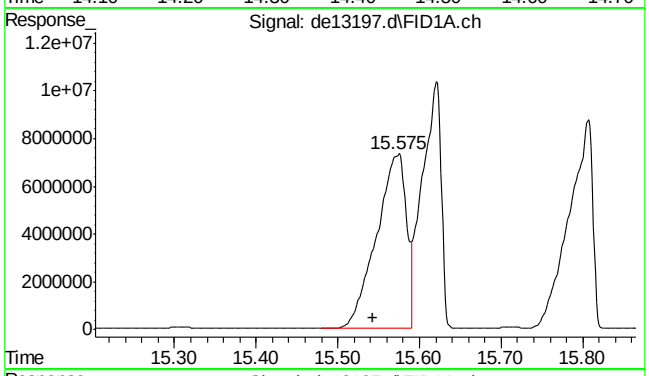
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



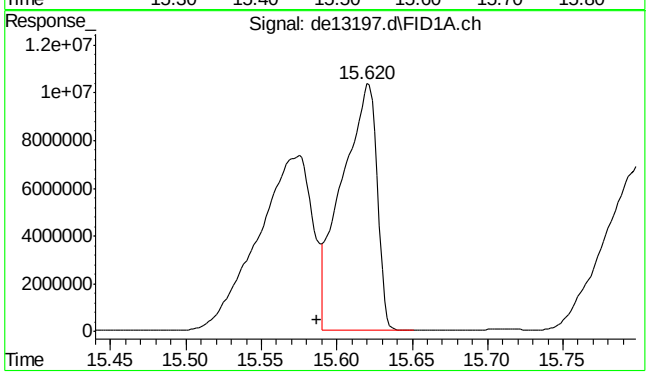
#18 benzo(a)pyrene

R.T.: 14.432 min
Delta R.T.: 0.030 min
Response: 17319408
Conc: 185.11 µg/ml



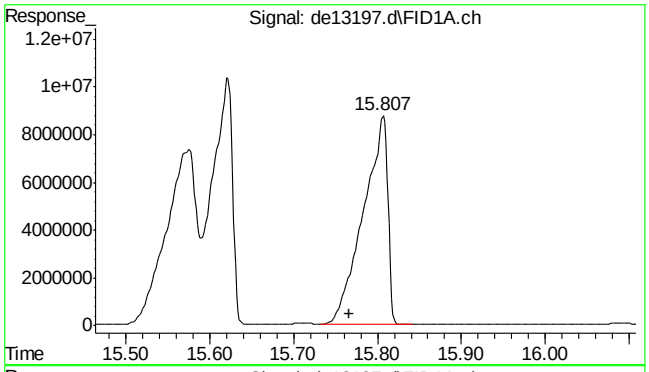
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.575 min
Delta R.T.: 0.032 min
Response: 18670540
Conc: 194.06 µg/ml m



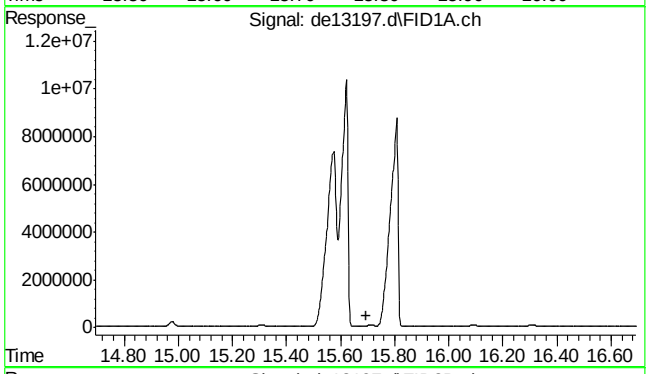
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m



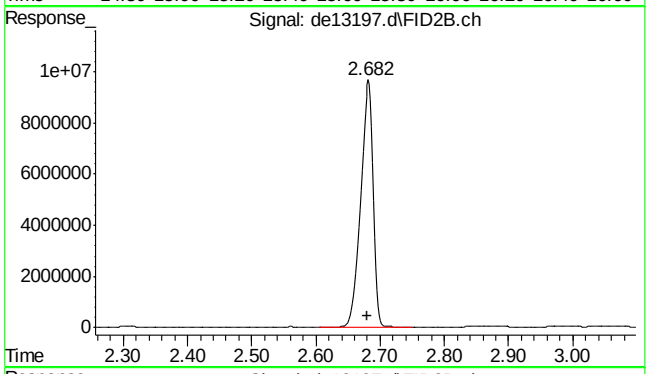
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



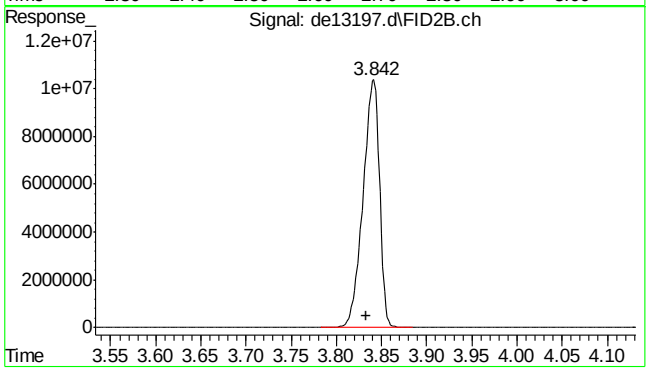
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 13093571
Conc: 173.26 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.4.7

9

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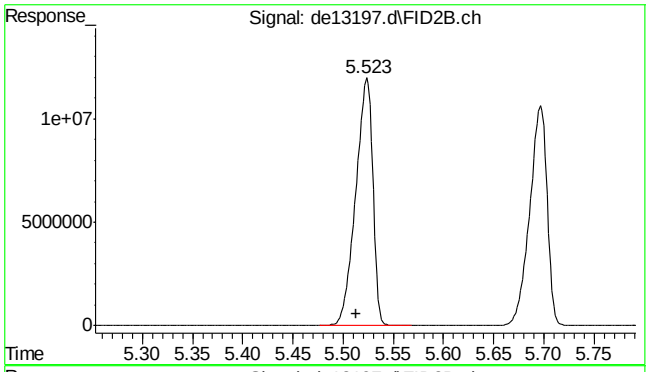
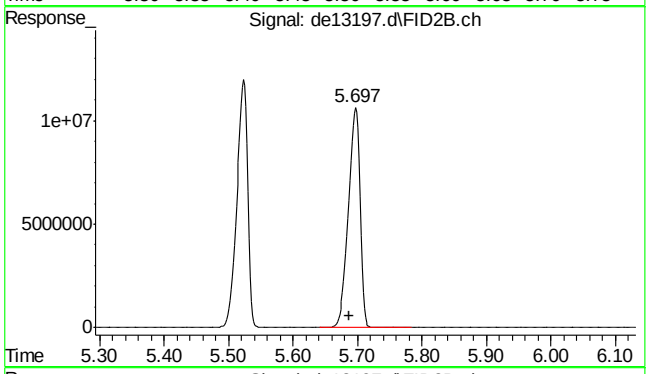


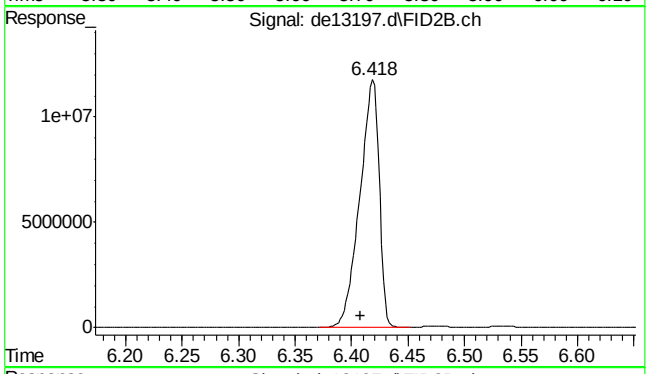
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



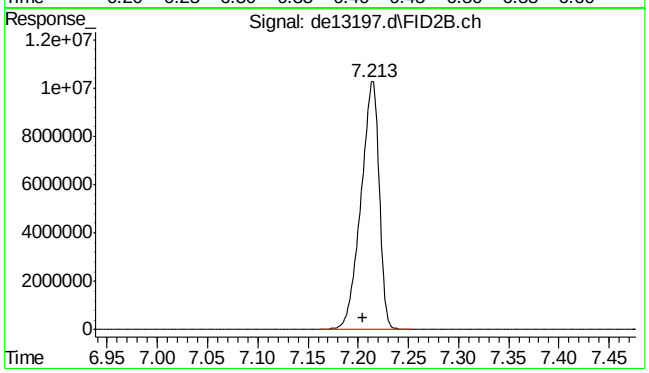
#28 c-12

R.T.: 5.697 min
Delta R.T.: 0.009 min
Response: 12963152
Conc: 171.35 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.418 min
Delta R.T.: 0.010 min
Response: 13931230
Conc: 172.09 µg/ml



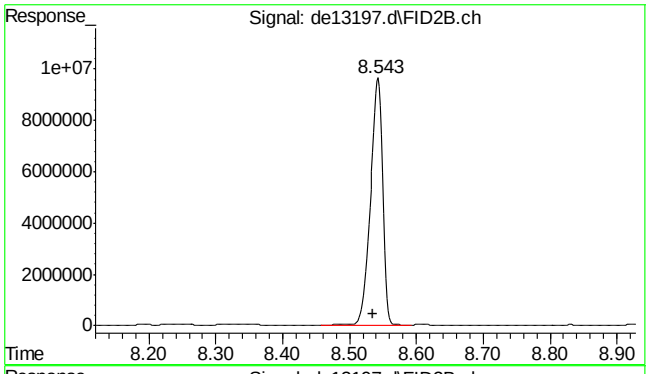
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.4.7

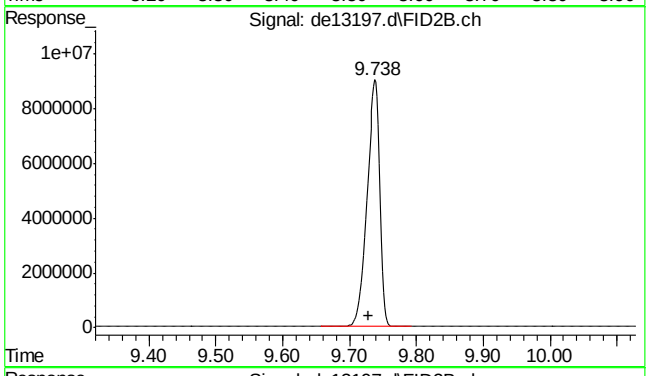
9

SGS ACCUTEST MC45969



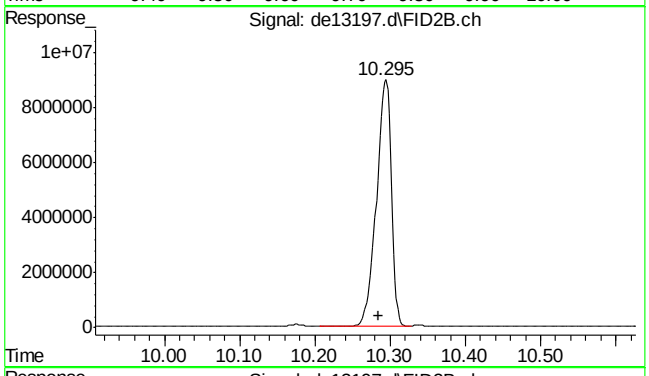
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



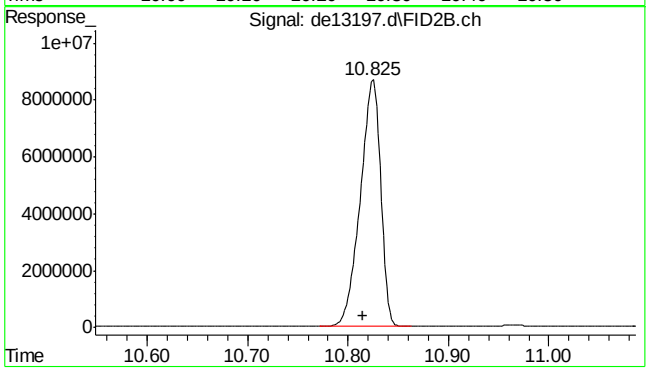
#32 c-18

R.T.: 9.738 min
Delta R.T.: 0.010 min
Response: 12493898
Conc: 168.99 µg/ml



#33 c-19

R.T.: 10.295 min
Delta R.T.: 0.010 min
Response: 12406524
Conc: 171.31 µg/ml



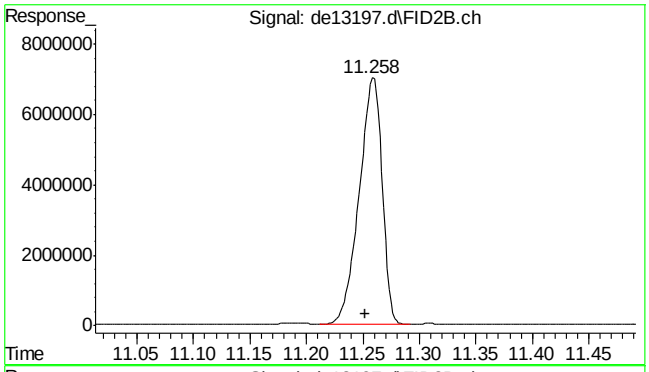
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.4.7

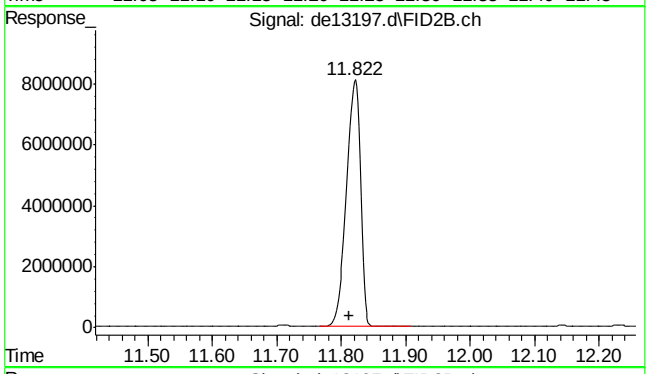
9

SGS ACCUTEST MC45969



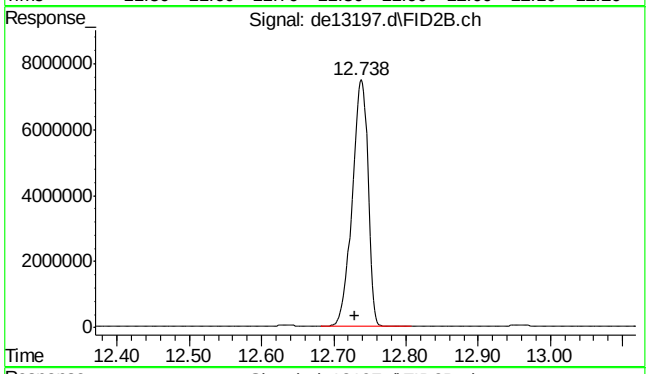
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



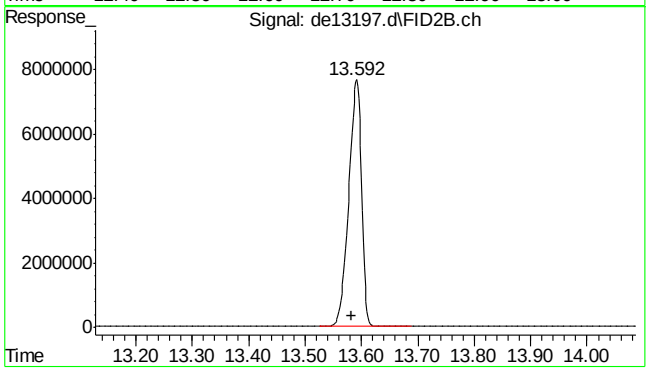
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



#37 c-24

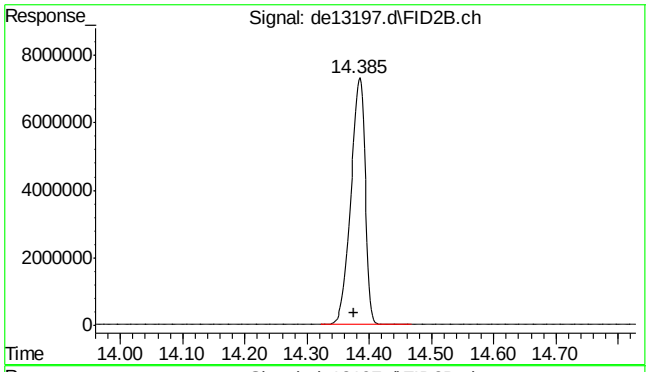
R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



#38 c-26

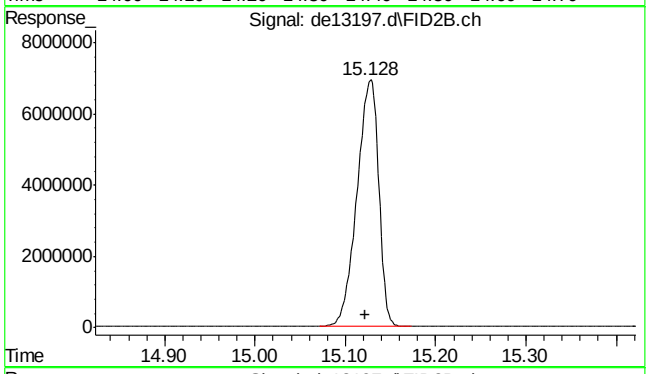
R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml

SGS ACCUTEST MC45969



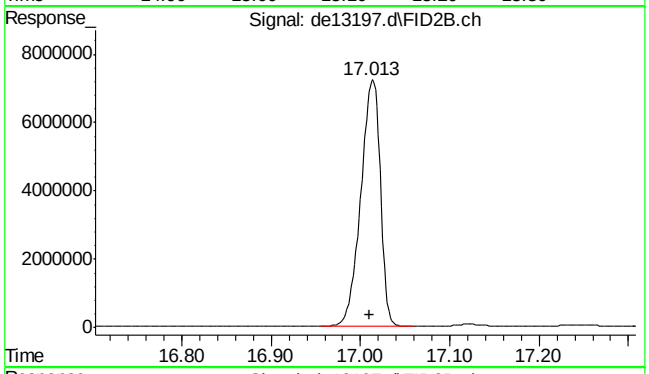
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



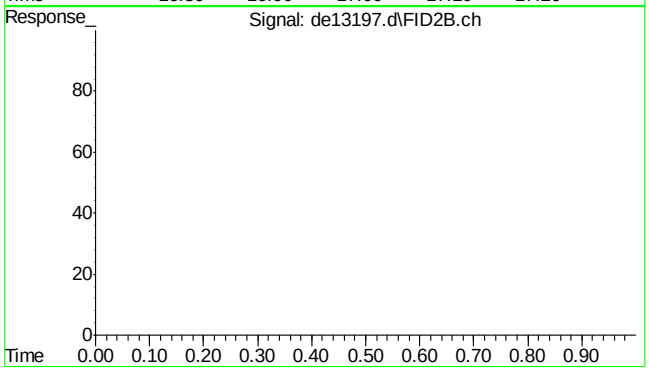
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 11593413
Conc: 170.86 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 10854654
Conc: 179.92 µg/ml m



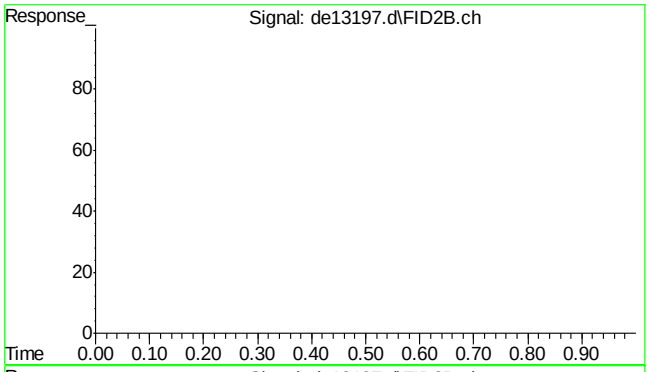
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.7

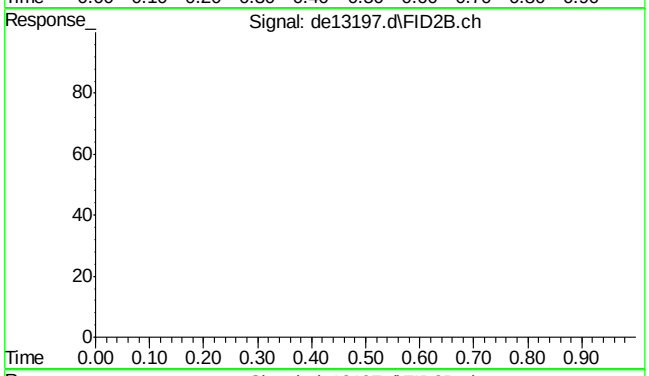
9

SGS ACCUTEST MC45969



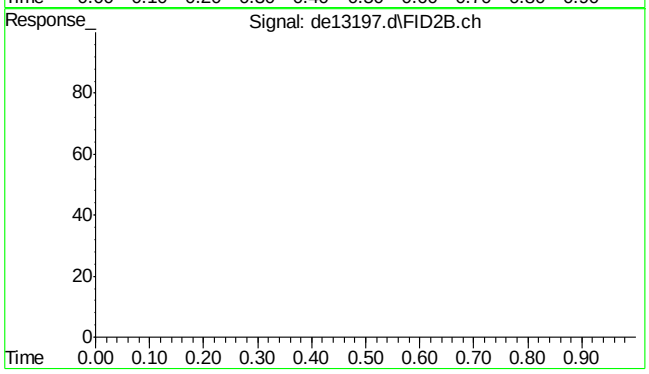
#43 bht

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

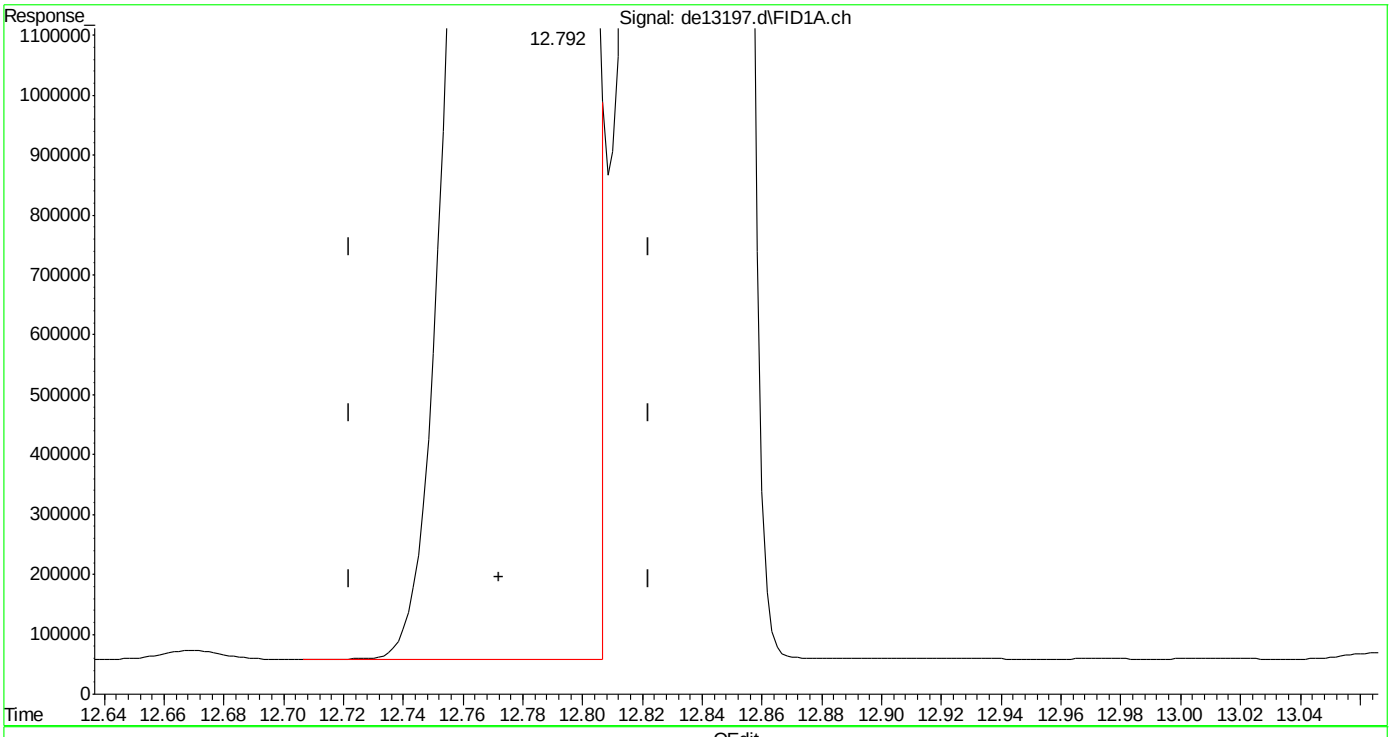
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

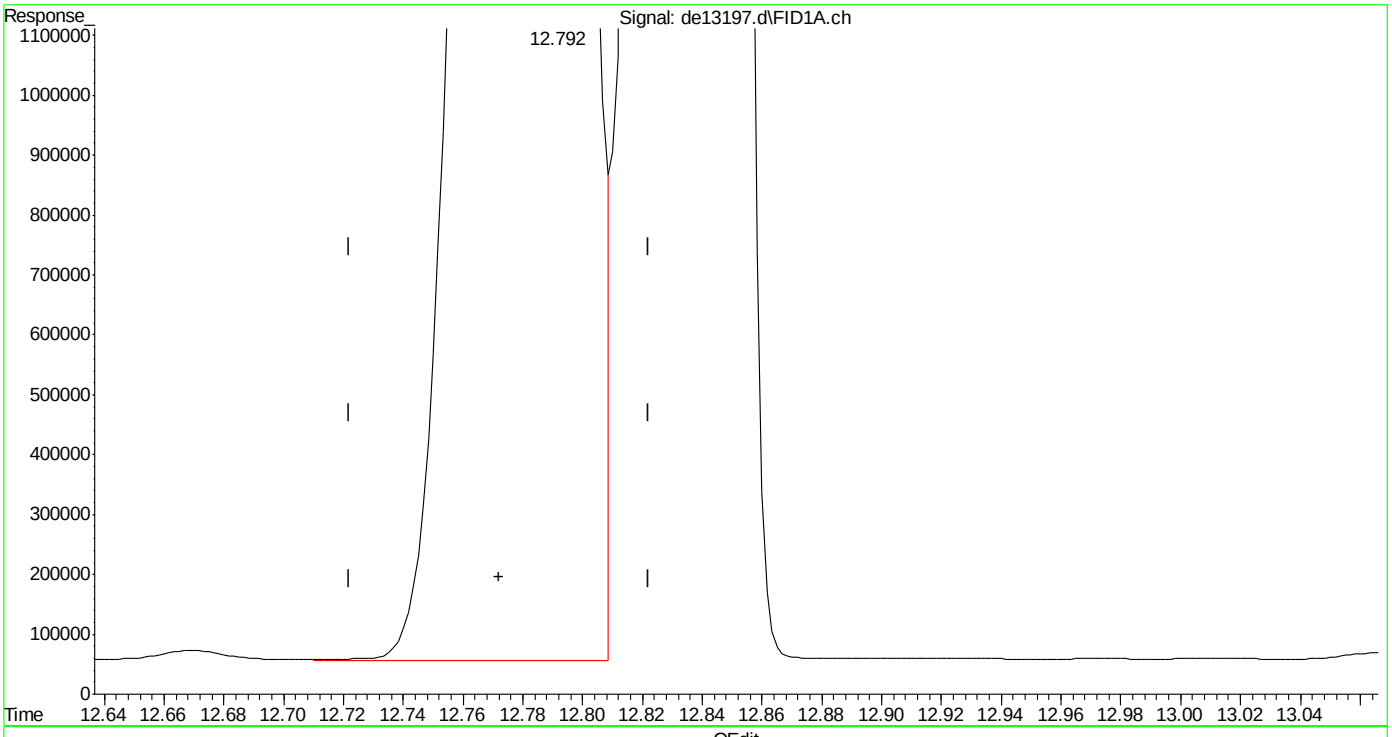
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:14 2016

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

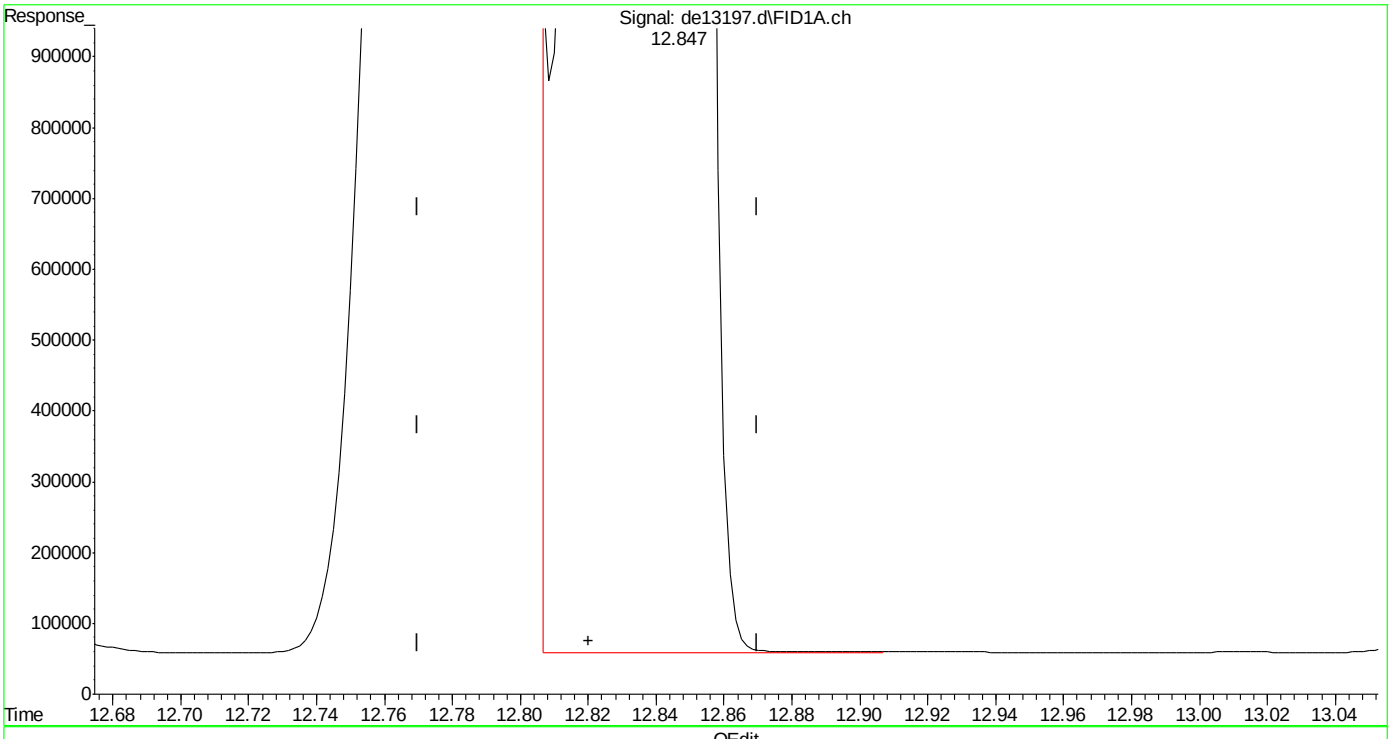
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

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

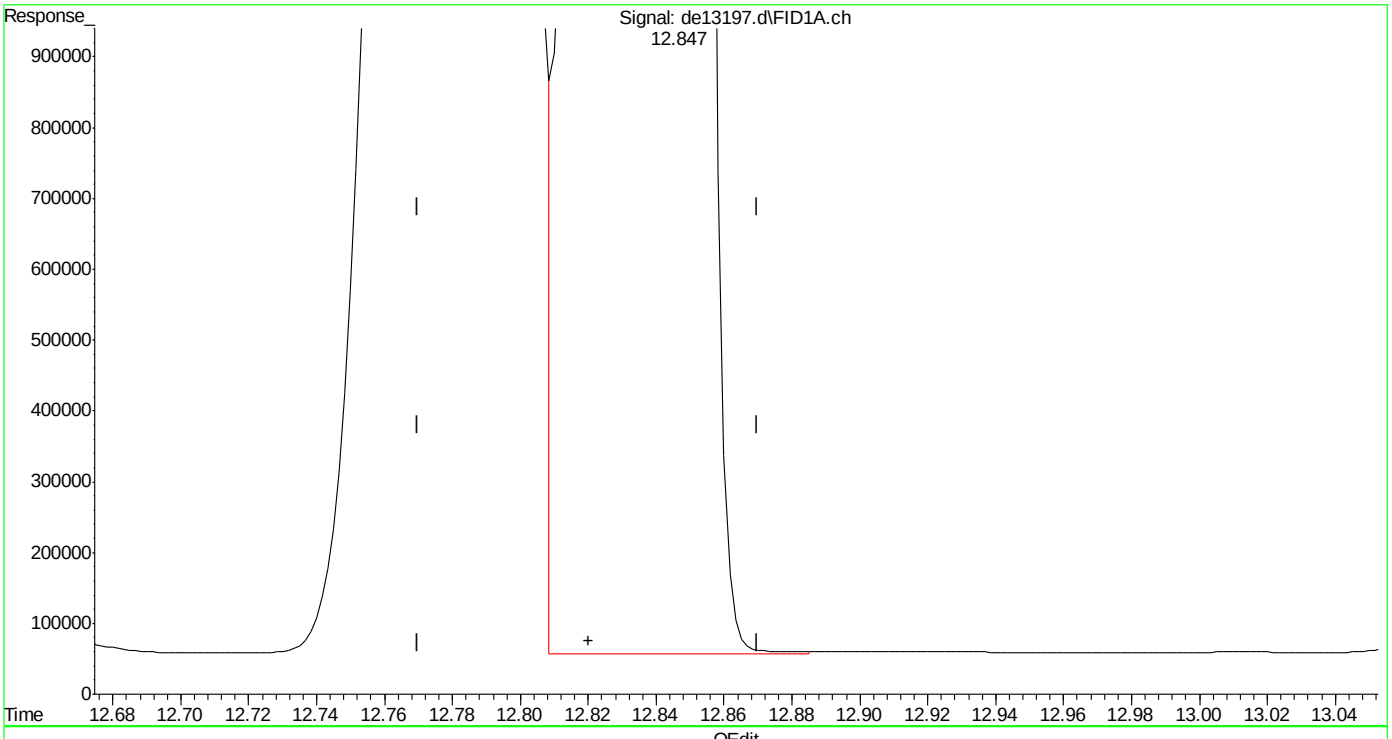
(+) = Expected Retention Time

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

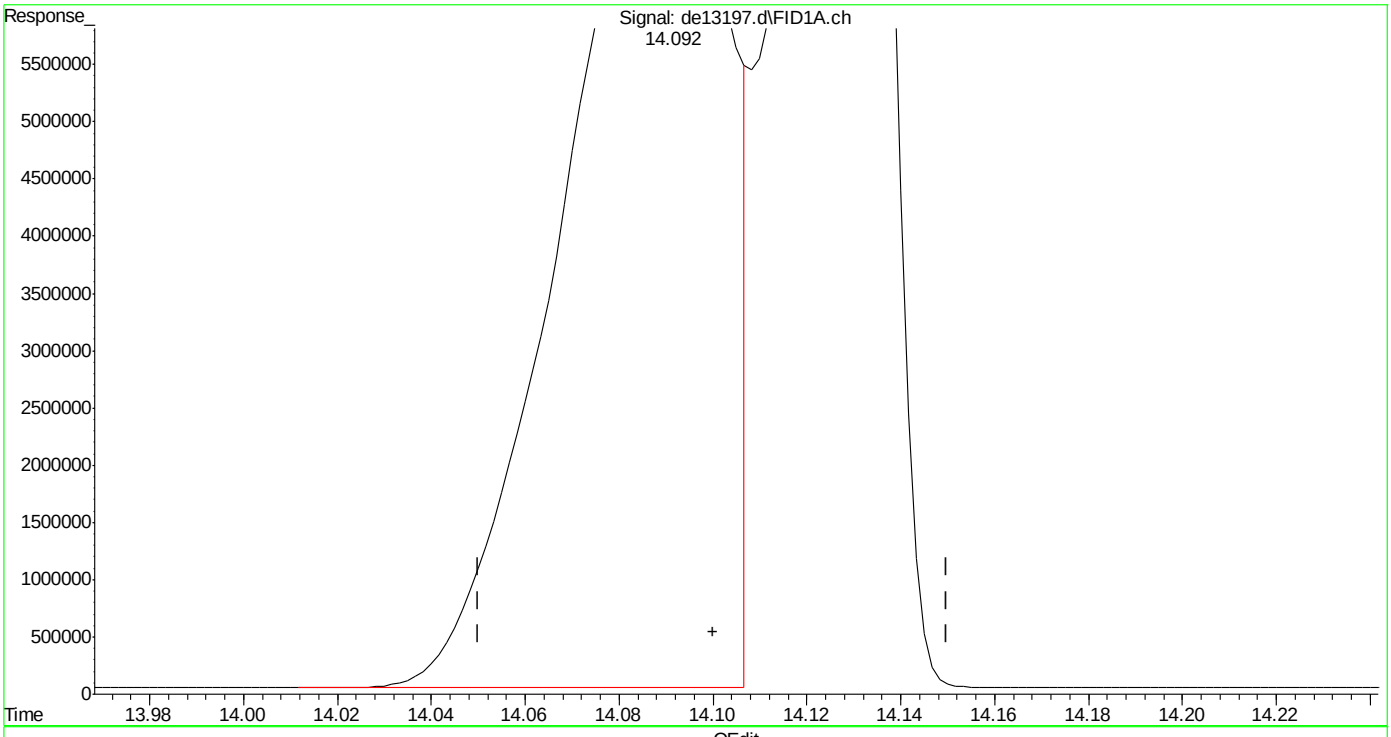
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.092min 196.520 µg/ml
response 18893122

(+) = Expected Retention Time

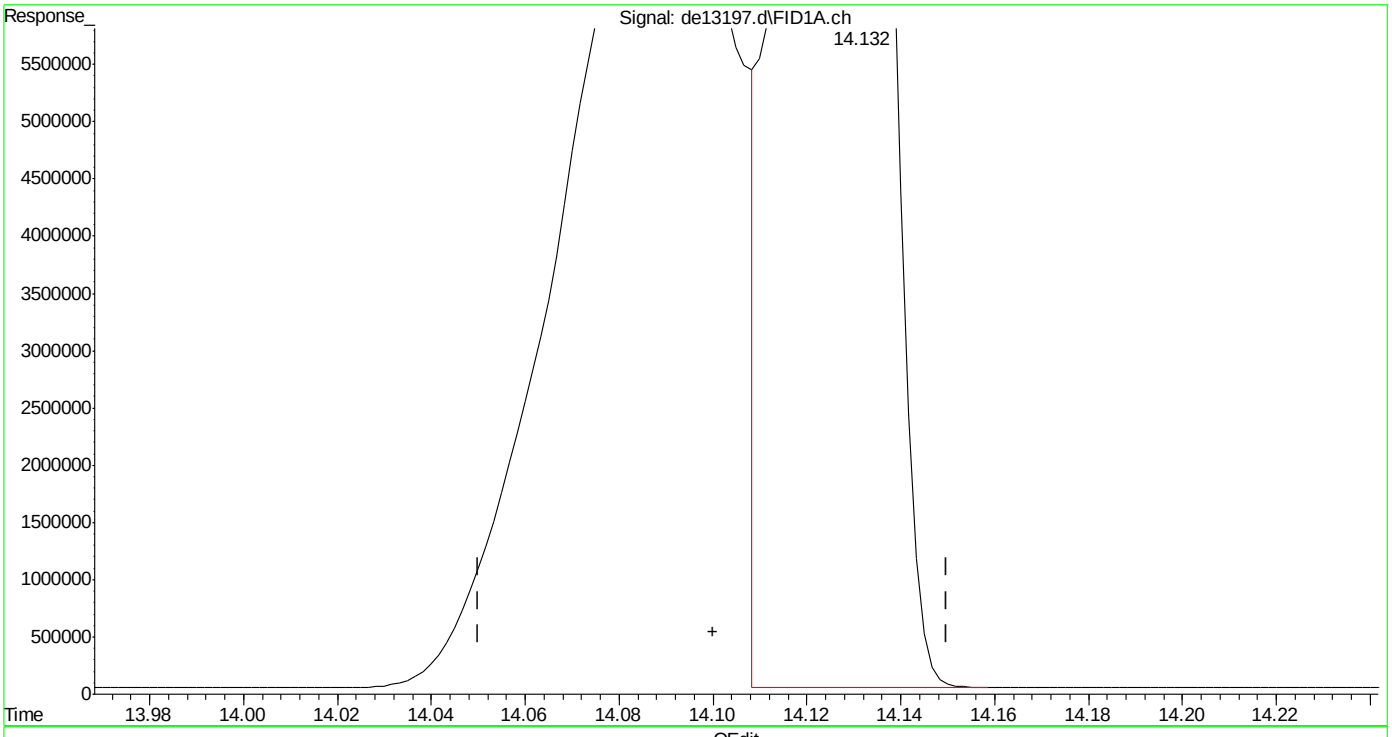
EPH160204M.M Fri Feb 05 11:04:36 2016 Page: 1

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

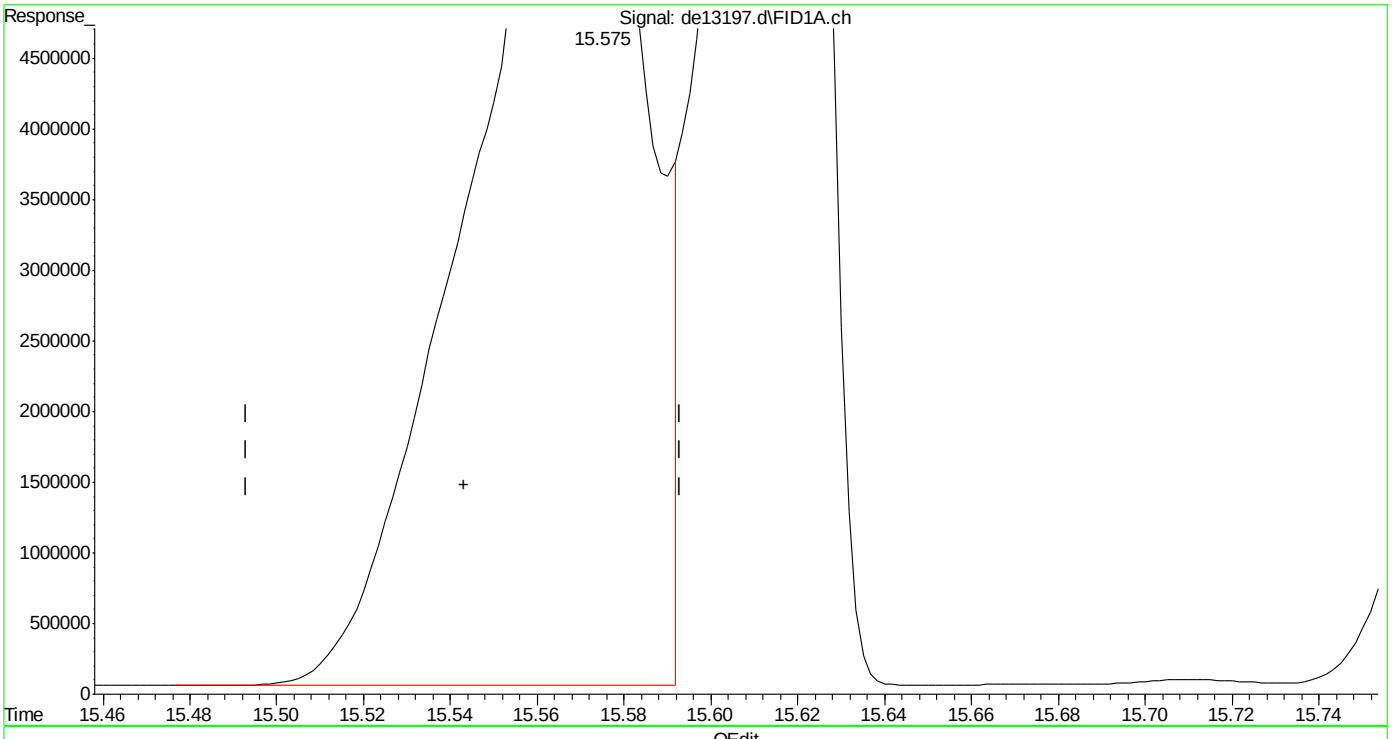
SGS ACCUTEST MC45969

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

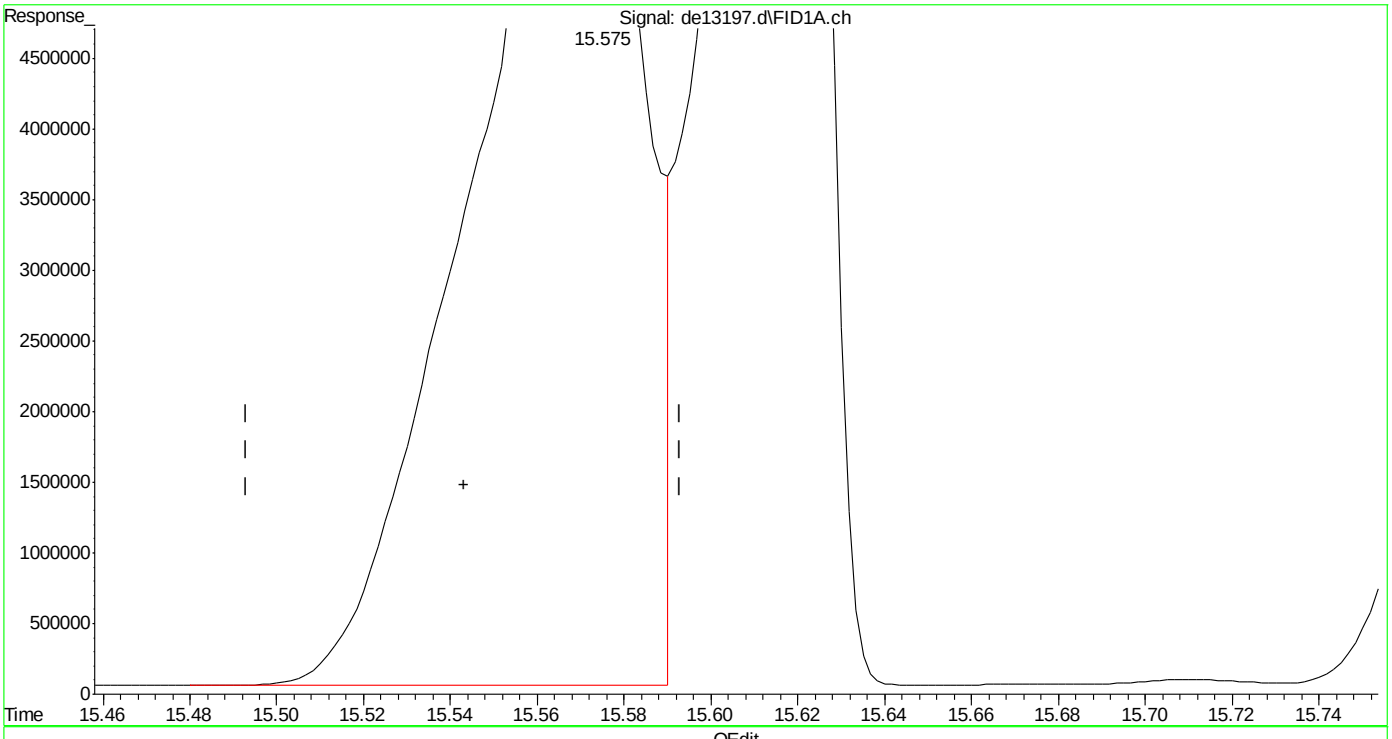
SGS ACCUTEST MC45969

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

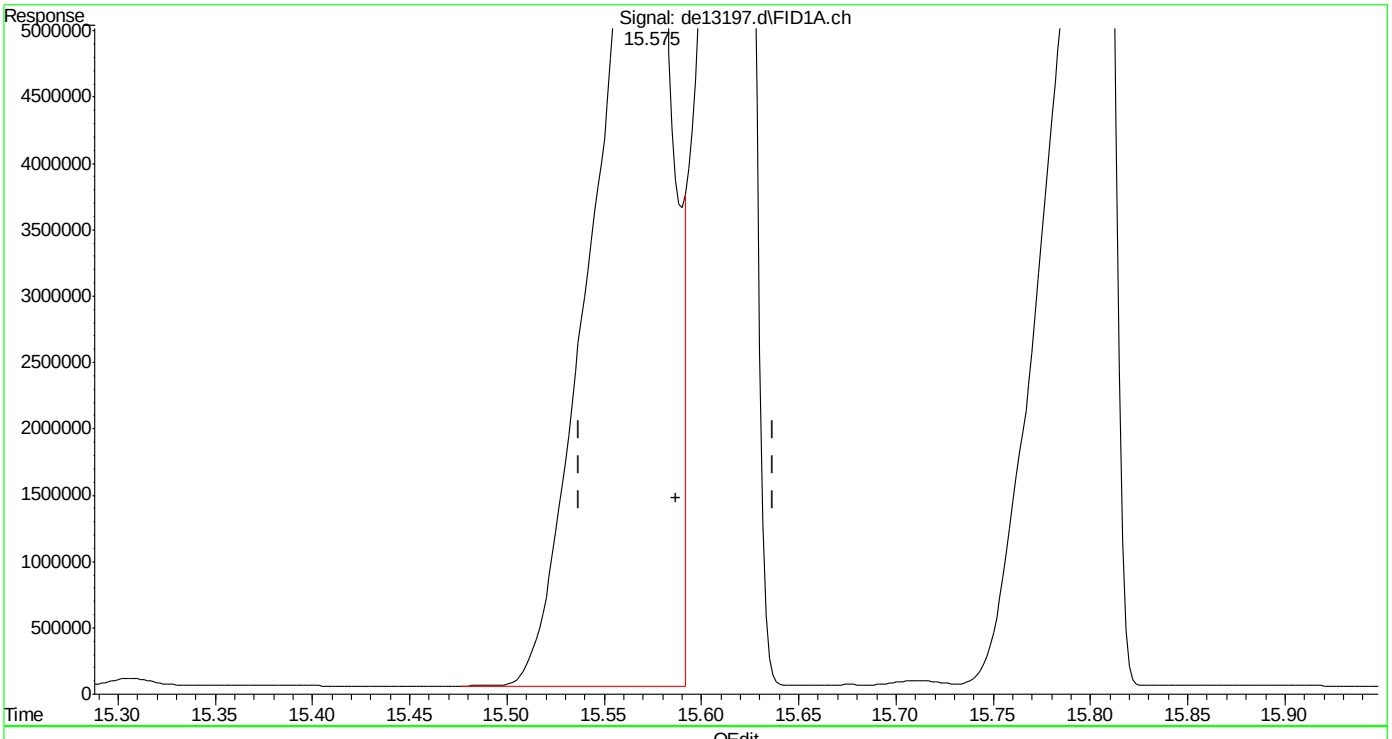
(+) = Expected Retention Time

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

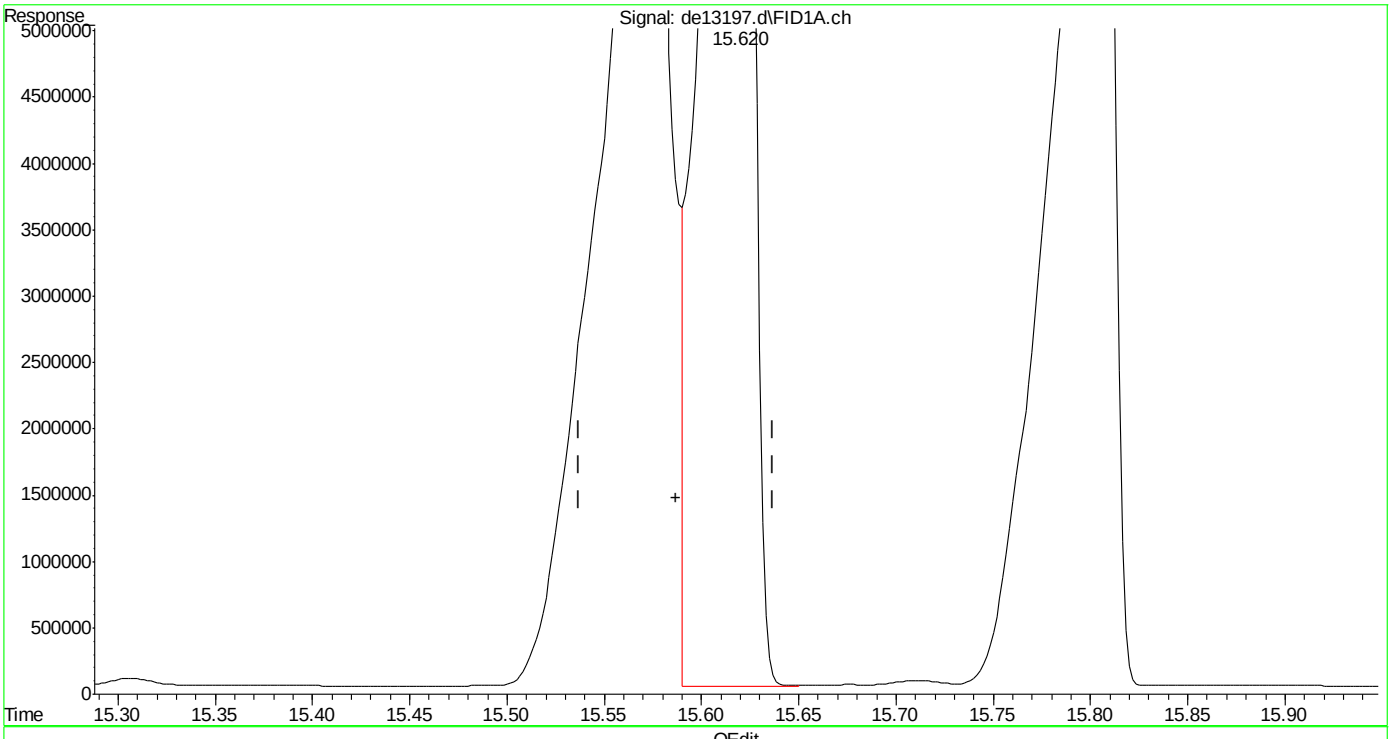
EPH160204M.M Fri Feb 05 11:05:08 2016 Page: 1

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
15.620min 180.145 µg/ml m
response 16610466

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 11:05:26 2016

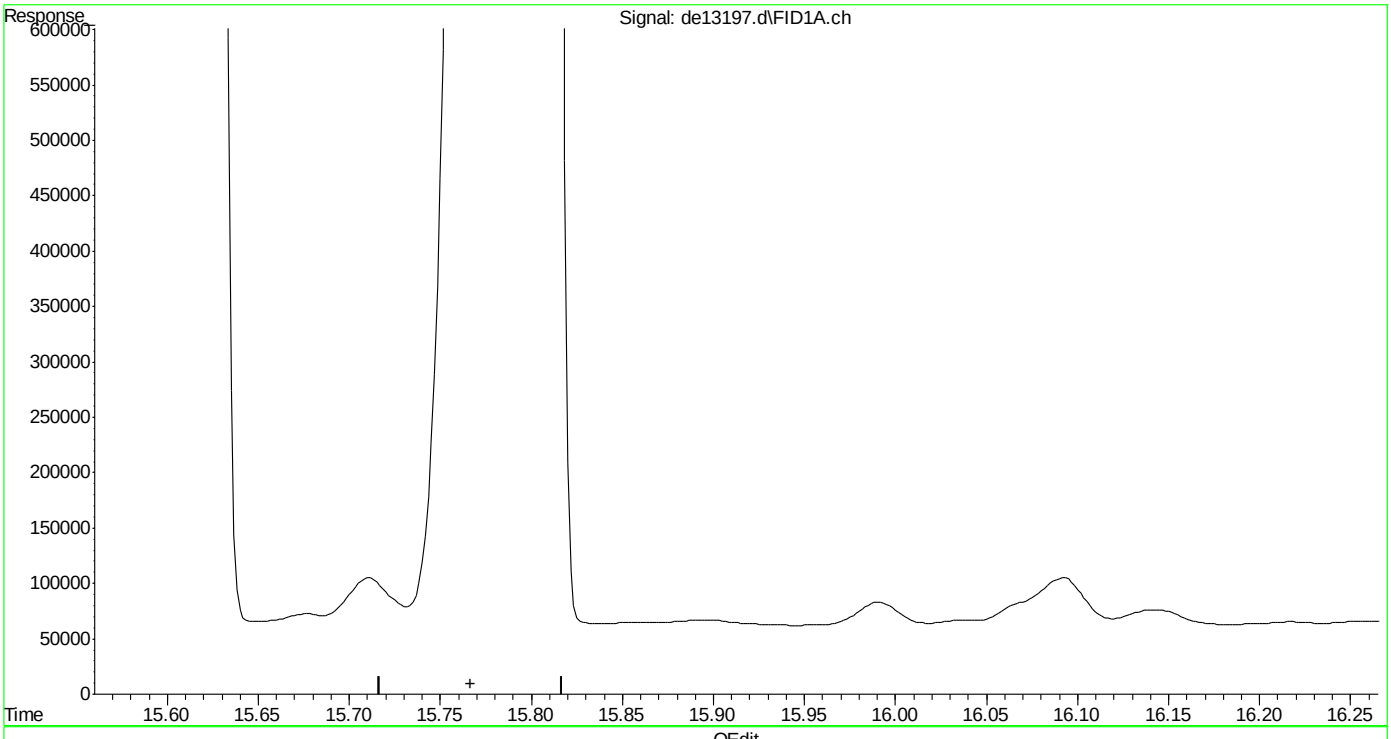
SGS ACCUTEST MC45969

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

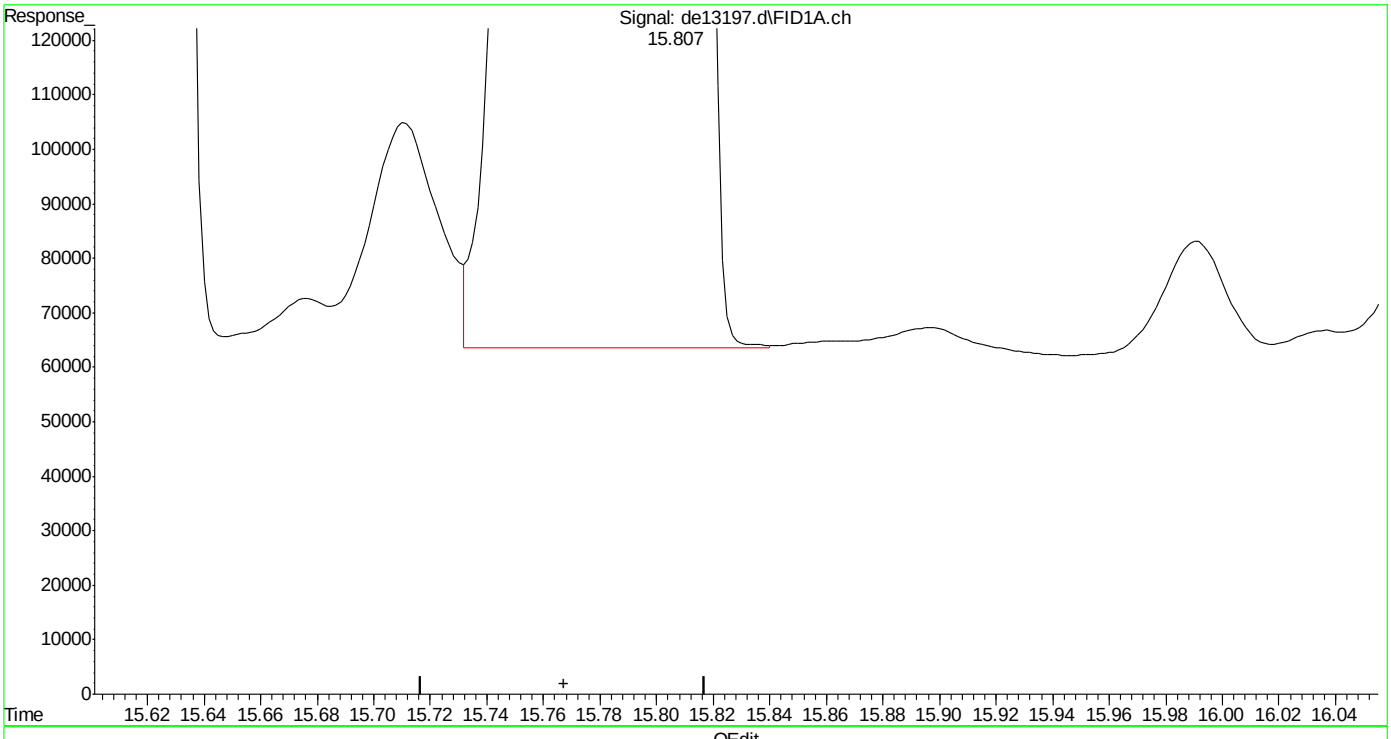
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(21) benzo(ghi)perylene
15.807min 188.129 µg/ml m
response 17523714

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:54 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.807	4785763	51.889 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 259.44%#
6) s	2-bromonaphthalene	7.540	3261205	51.967 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 259.83%#
11) s	o-terphenyl	10.085	5227790	51.039 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 255.20%#
35) s	1-chlorooctadecane	11.252	2968966	52.479 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 262.39%#
	Target Compounds			
2)	naphthalene	5.357	5321324	51.593 µg/ml
3)	2-methylnaphthalene	6.255	5225758	50.992 µg/ml
5)	acenaphthylene	7.373	5189401	51.584 µg/ml
7)	acenaphthene	7.617	5299977	51.269 µg/ml
8)	fluorene	8.260	5216935	51.364 µg/ml
9)	phenanthrene	9.443	5176102	50.864 µg/ml
10)	anthracene	9.502	5163442	53.227 µg/ml
12)	fluoranthene	10.953	5147188	51.502 µg/ml
13)	pyrene	11.210	5076986	50.038 µg/ml
14)	benzo(a)anthracene	12.773	5010585	51.829 µg/mlm
15)	chrysene	12.822	4818393	49.500 µg/mlm
16)	benzo(B)fluoranthene	14.070	5126155	51.778 µg/mlm
17)	benzo(k)fluoranthene	14.102	4808431	50.882 µg/mlm
18)	benzo(a)pyrene	14.405	4486318	48.535 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.543	4825283	50.976 µg/ml
20)	dibenzo(ah)anthracene	15.588	4714989	51.587 µg/ml
21)	benzo(ghi)perylene	15.768	4765990	51.735 µg/ml
25) h	c-9	2.680	3669865	49.679 µg/mlm
26) h	c-10	3.833	3682081	49.844 µg/ml
27)	naphthalene #2	5.515	4035939	50.530 µg/ml
28)	c-12	5.688	3625160	49.073 µg/ml
29)	2-methylnaphthalene #2	6.408	3954192	49.080 µg/ml
30)	c-14	7.205	3605226	48.804 µg/ml
31)	c-16	8.535	3538485	47.900 µg/ml
32)	c-18	9.730	3494684	47.307 µg/ml
33)	c-19	10.285	3424371	51.258 µg/ml
34)	c-20	10.817	3390870	50.757 µg/ml
36)	c-22	11.812	3335369	49.926 µg/ml
37)	c-24	12.730	3275936	49.036 µg/ml
38)	c-26	13.582	3251556	48.671 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.375	3204302	47.964	µg/ml
40) h	c-30	15.122	3143578	47.055	µg/ml
41) h	c-36	17.010	2933493	43.910	µg/mlm

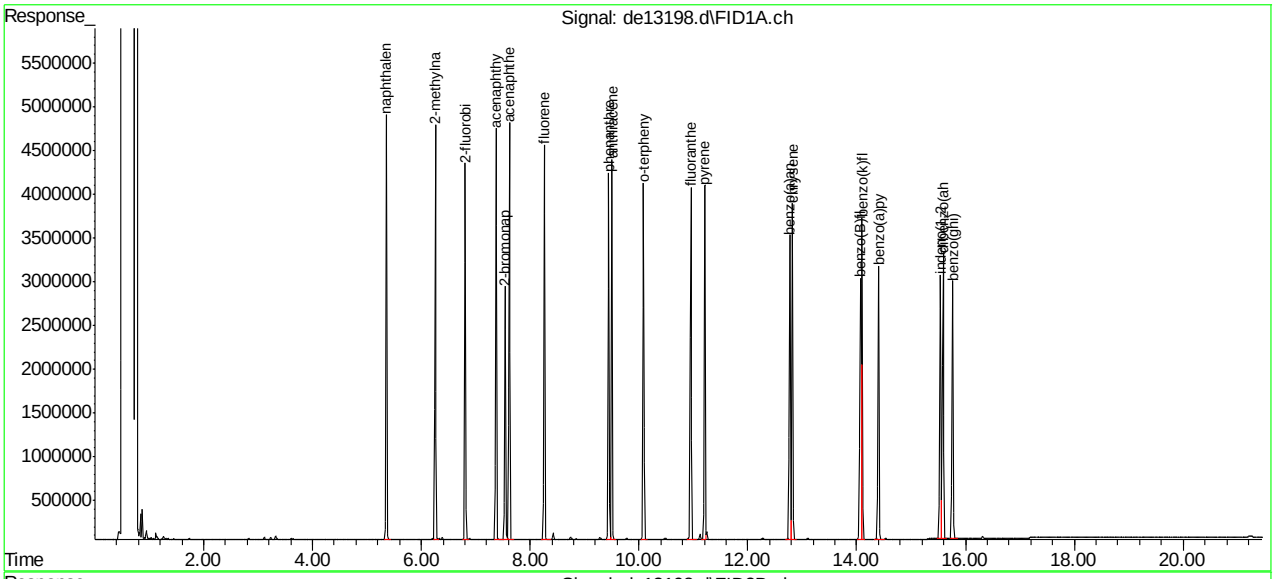
(f)=RT Delta > 1/2 Window (m)=manual int.

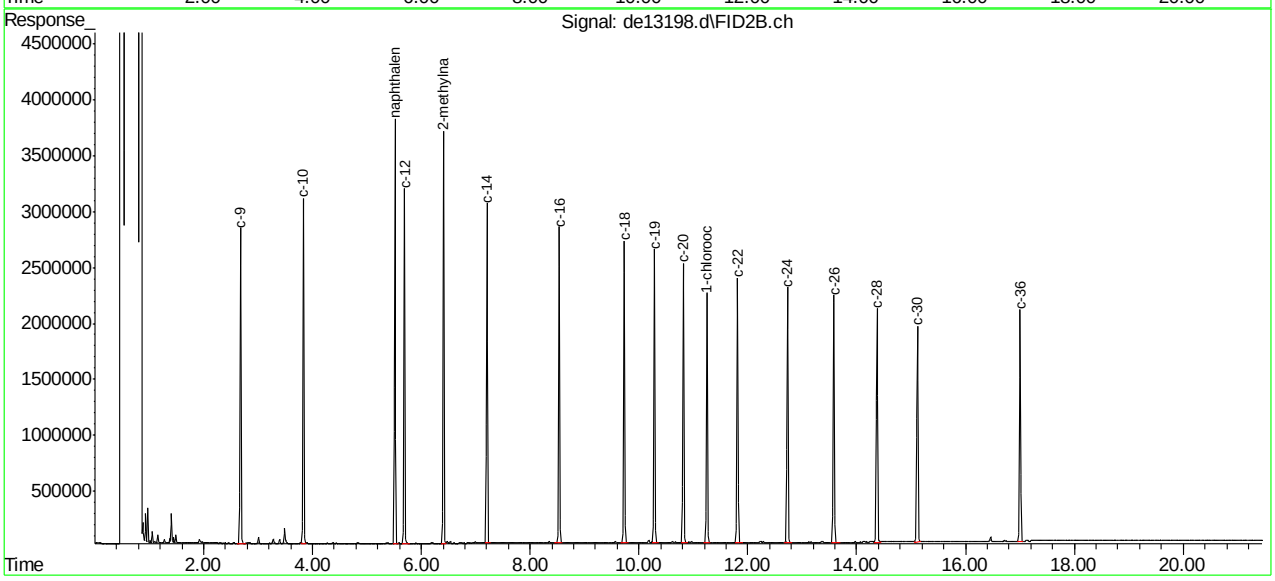
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

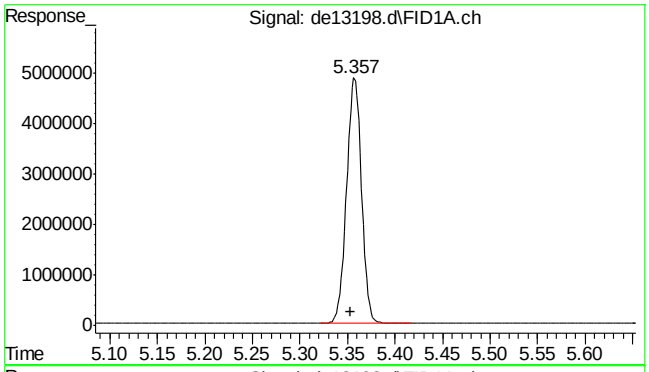
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





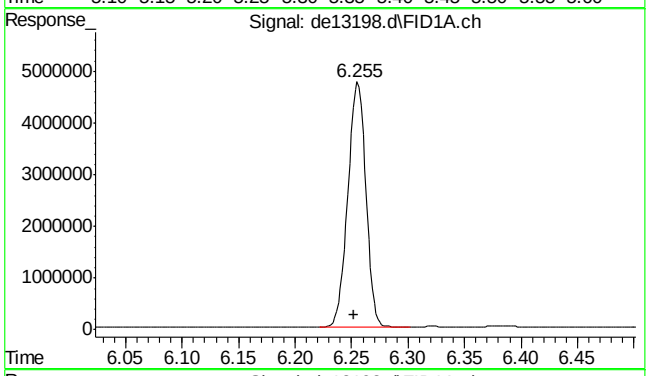
EPH160204W.M Fri Feb 05 14:30:14 2016 Page: 3

SGS ACCUTEST MC45969



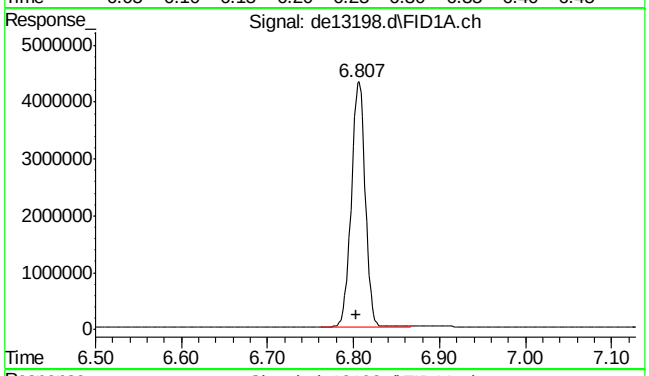
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



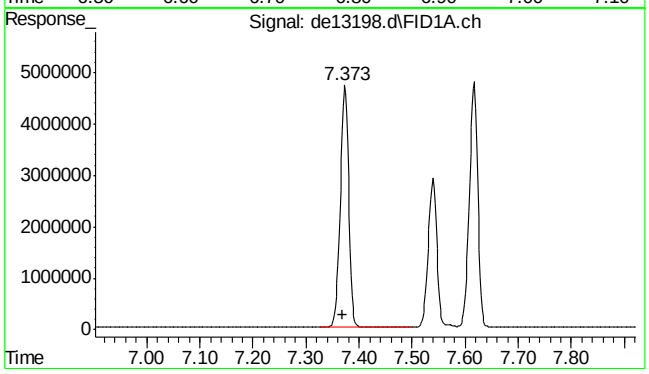
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

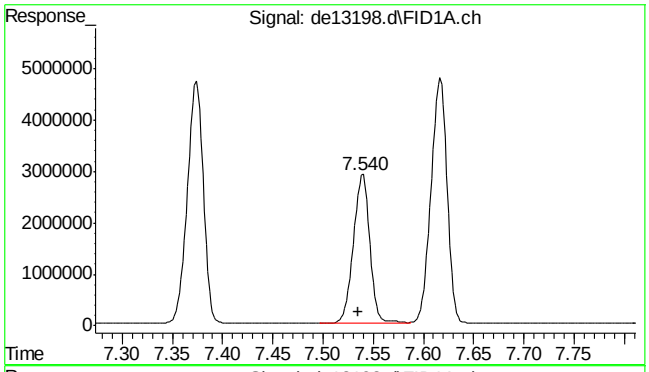
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



#5 acenaphthylene

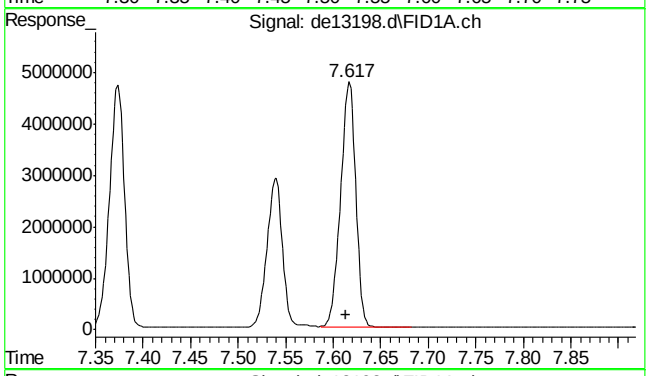
R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

SGS ACCUTEST MC45969



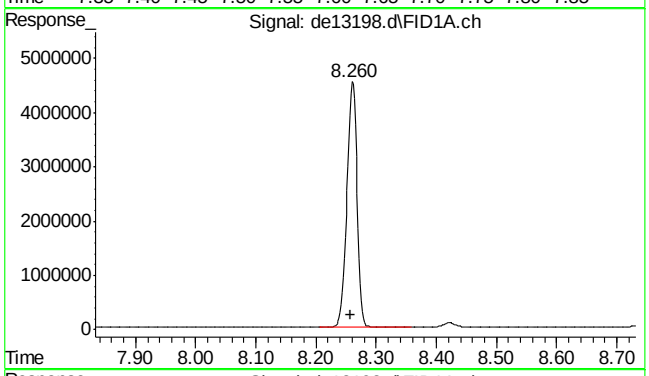
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



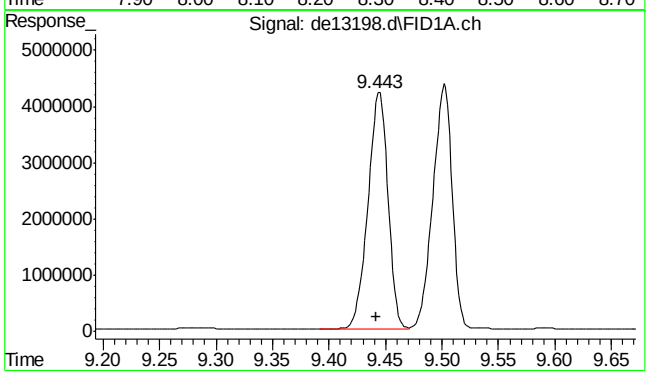
#7 acenaphthene

R.T.: 7.617 min
Delta R.T.: 0.004 min
Response: 5299977
Conc: 51.27 µg/ml



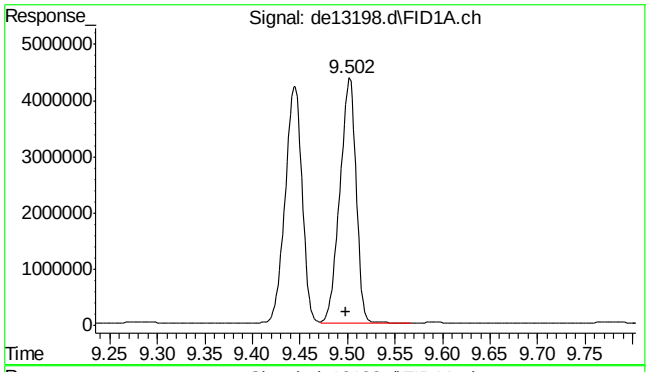
#8 fluorene

R.T.: 8.260 min
Delta R.T.: 0.003 min
Response: 5216935
Conc: 51.36 µg/ml



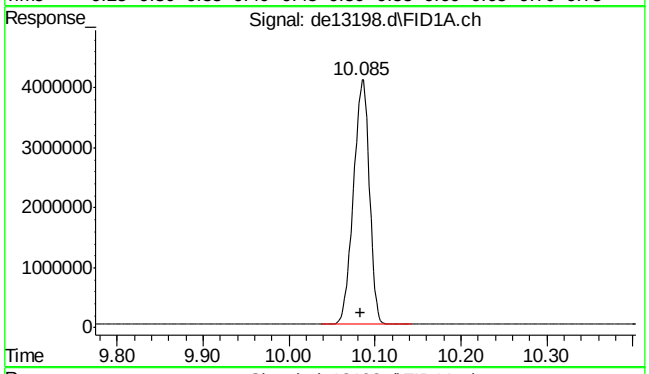
#9 phenanthrene

R.T.: 9.443 min
Delta R.T.: 0.001 min
Response: 5176102
Conc: 50.86 µg/ml



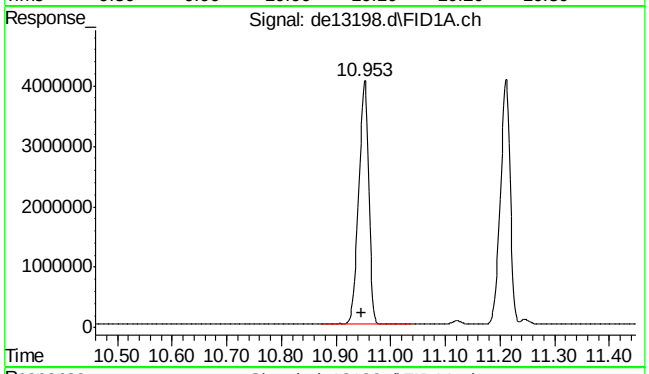
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



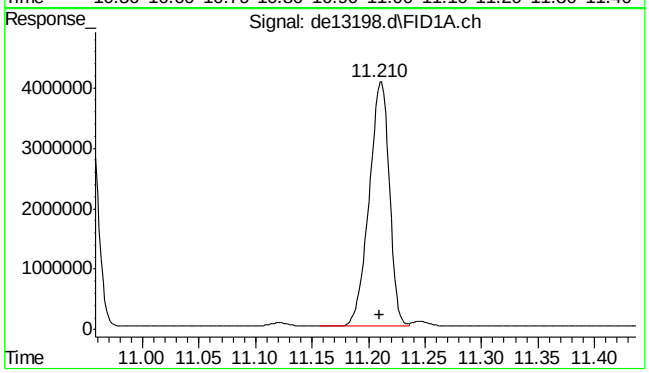
#11 o-terphenyl

R.T.: 10.085 min
Delta R.T.: 0.002 min
Response: 5227790
Conc: 51.04 µg/ml



#12 fluoranthene

R.T.: 10.953 min
Delta R.T.: 0.005 min
Response: 5147188
Conc: 51.50 µg/ml



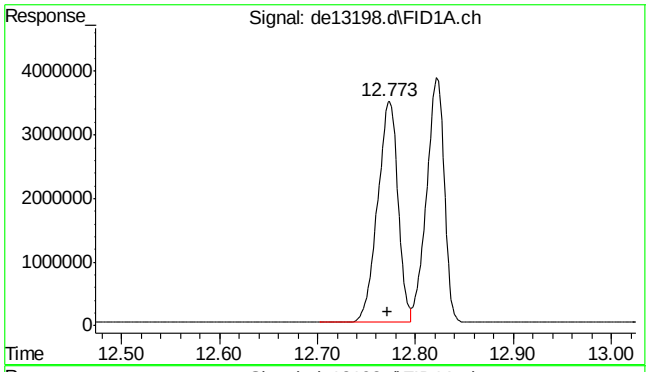
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.4.8

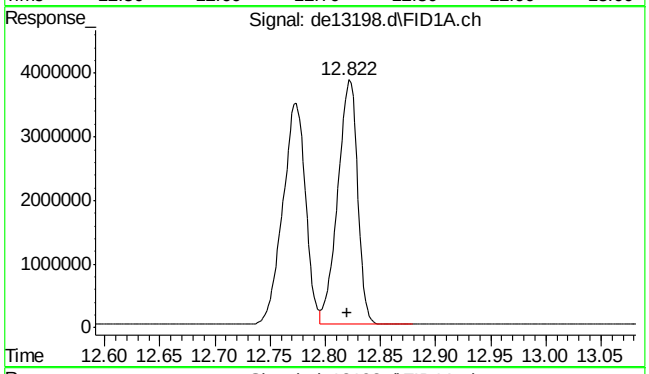
9

SGS ACCUTEST MC45969



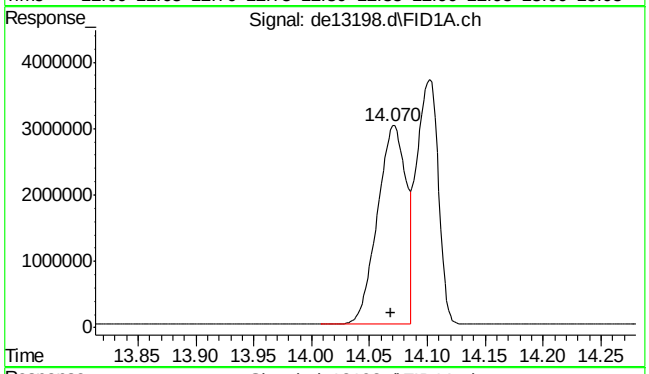
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



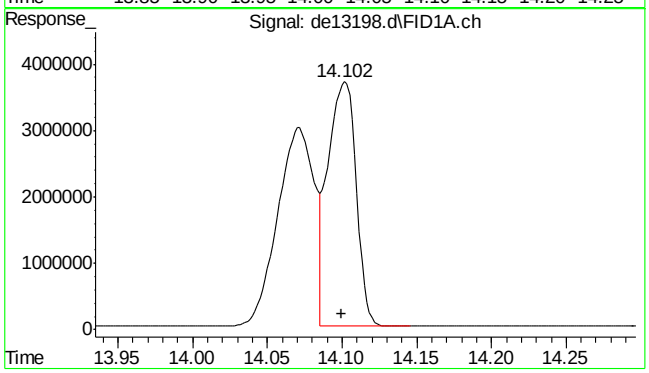
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



#16 benzo(B)fluoranthene

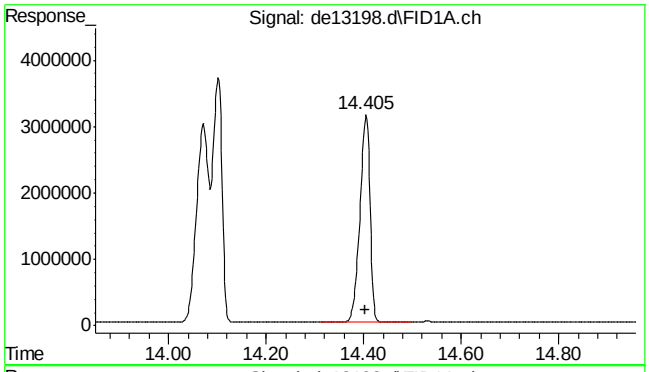
R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



#17 benzo(k)fluoranthene

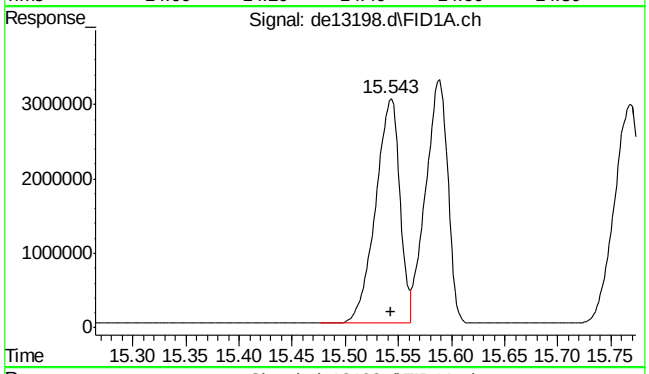
R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m

SGS ACCUTEST MC45969



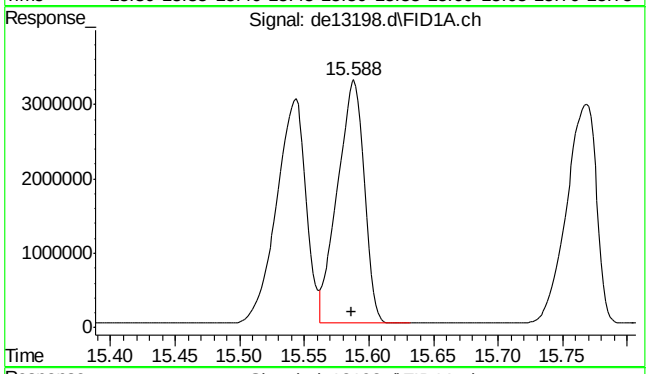
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



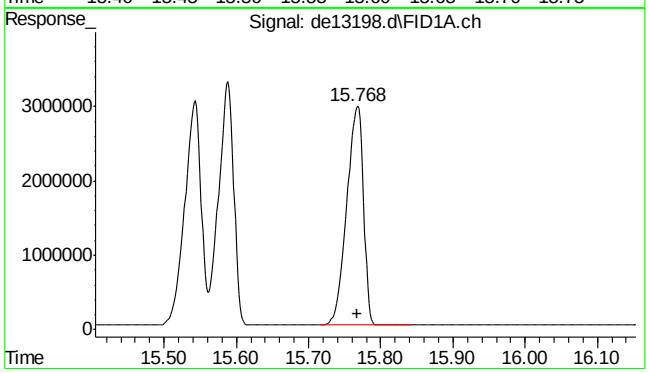
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4825283
Conc: 50.98 µg/ml



#20 dibenzo(ah)anthracene

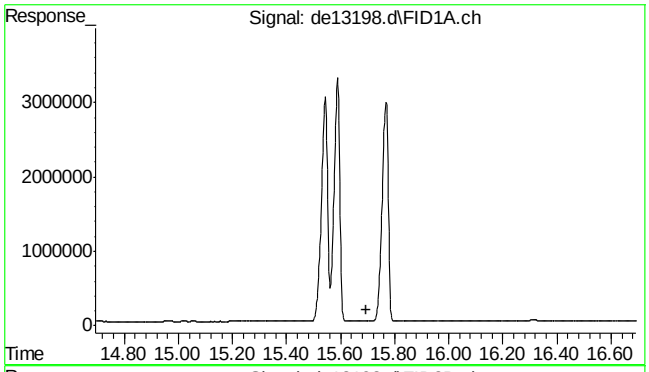
R.T.: 15.588 min
Delta R.T.: 0.001 min
Response: 4714989
Conc: 51.59 µg/ml



#21 benzo(ghi)perylene

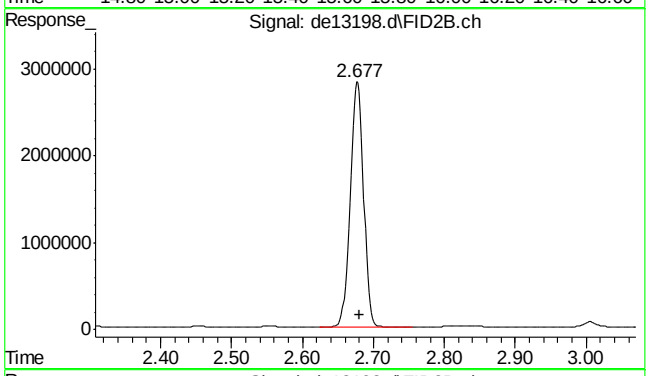
R.T.: 15.768 min
Delta R.T.: 0.001 min
Response: 4765990
Conc: 51.73 µg/ml

SGS ACCUTEST MC45969



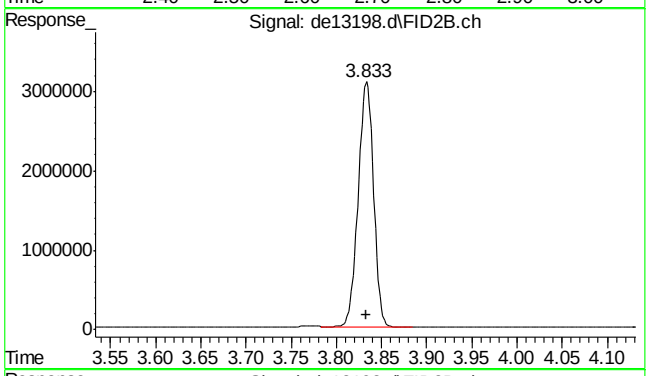
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



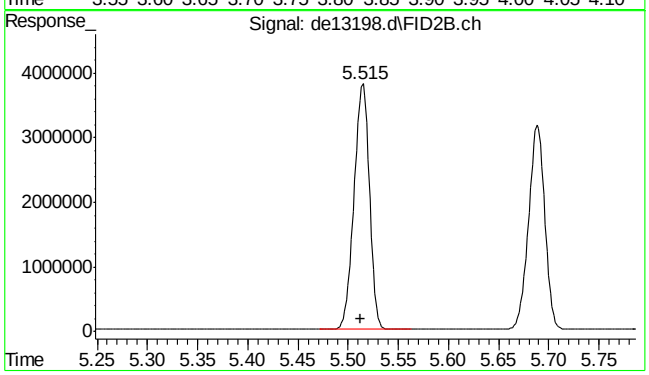
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3669865
Conc: 49.68 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3682081
Conc: 49.84 µg/ml



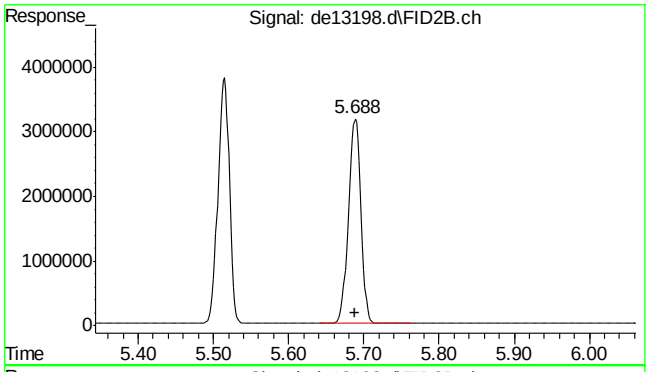
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml

9.4.8

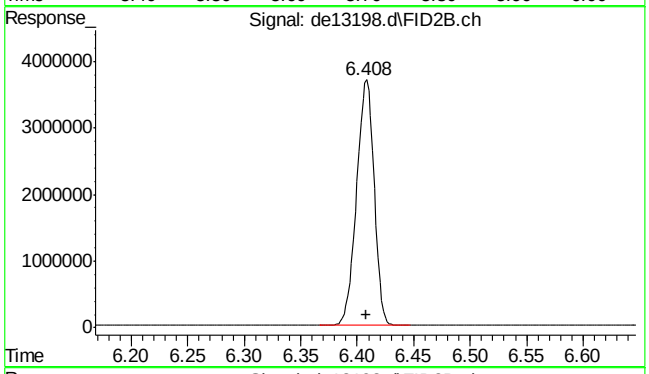
9

SGS ACCUTEST MC45969



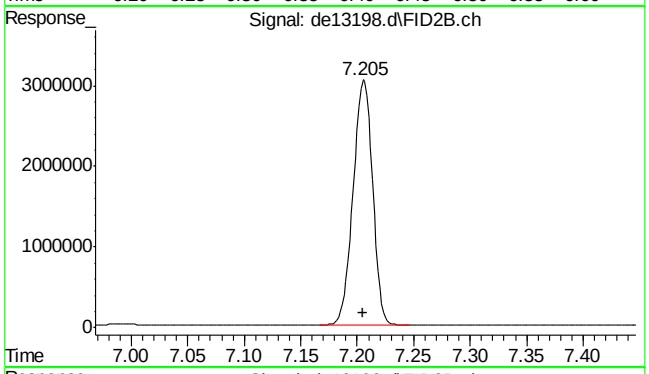
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



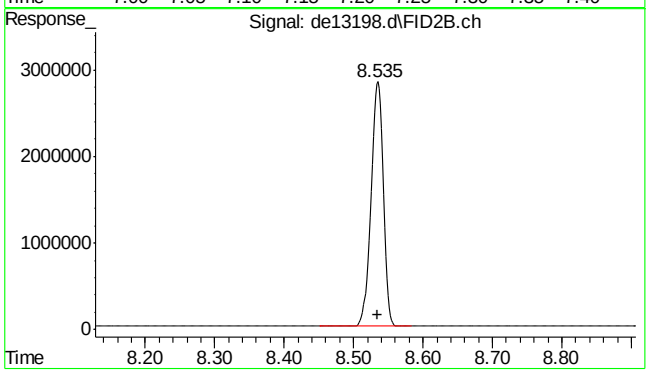
#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3954192
Conc: 49.08 µg/ml



#30 c-14

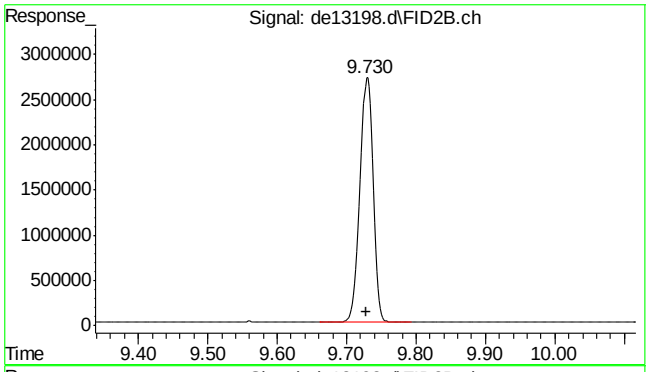
R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3605226
Conc: 48.80 µg/ml



#31 c-16

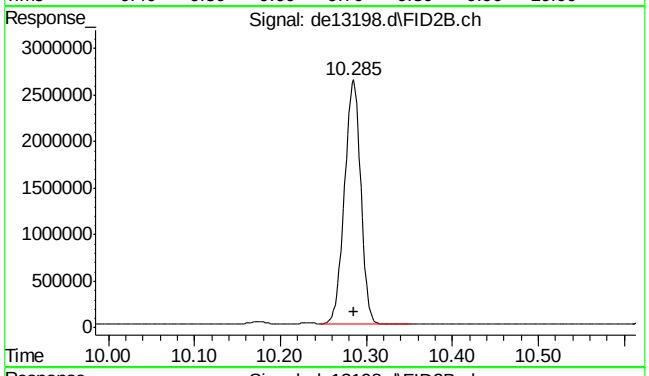
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml

SGS ACCUTEST MC45969



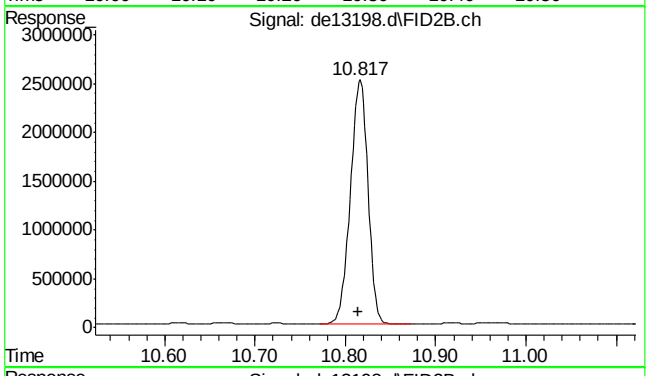
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



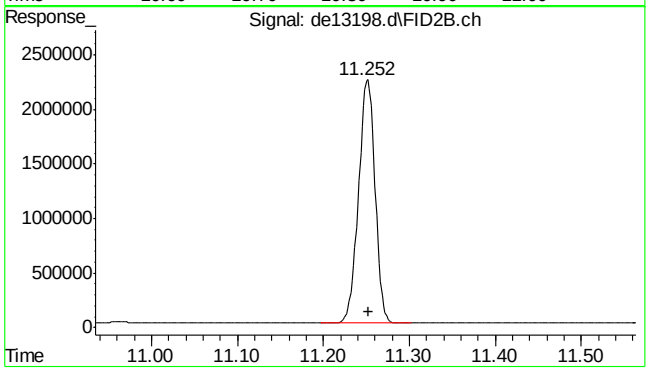
#33 c-19

R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3424371
Conc: 51.26 µg/ml



#34 c-20

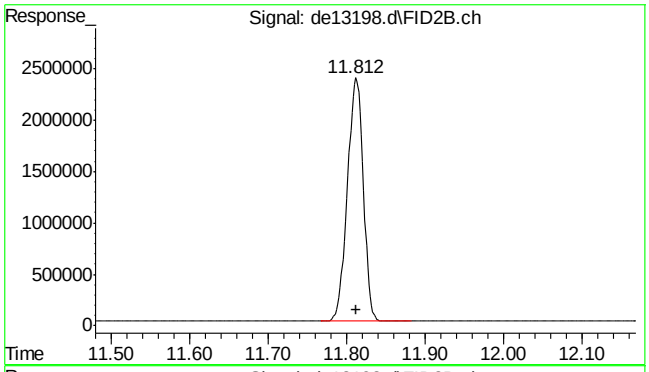
R.T.: 10.817 min
Delta R.T.: 0.002 min
Response: 3390870
Conc: 50.76 µg/ml



#35 1-chlorooctadecane

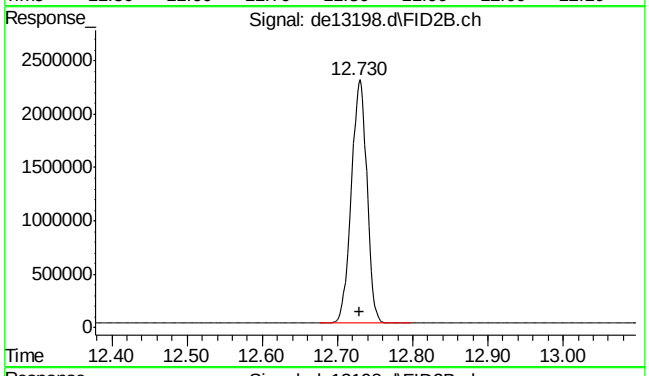
R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

SGS ACCUTEST MC45969



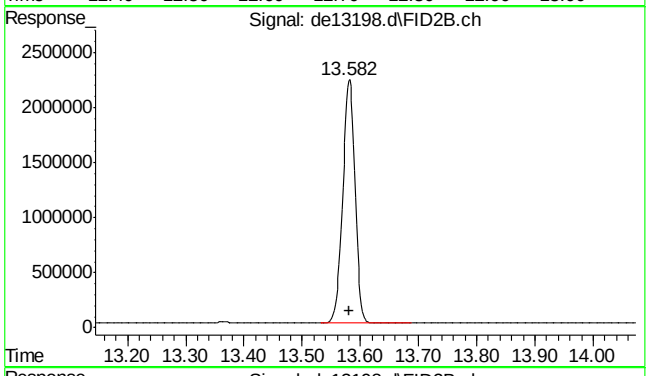
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



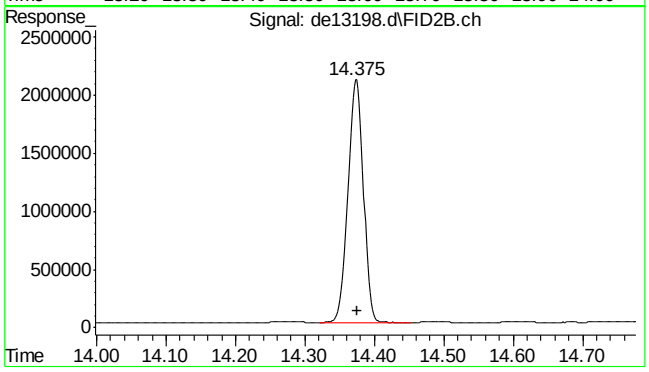
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



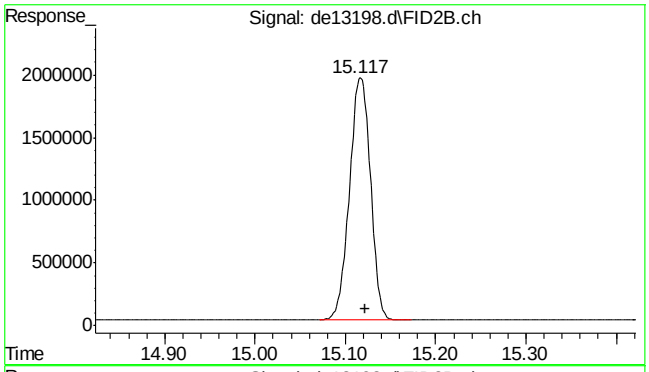
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



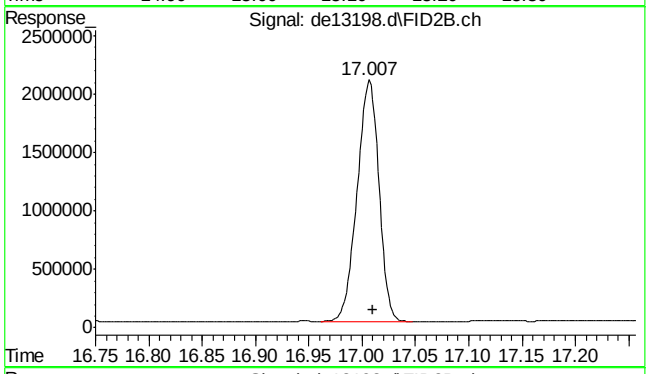
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml



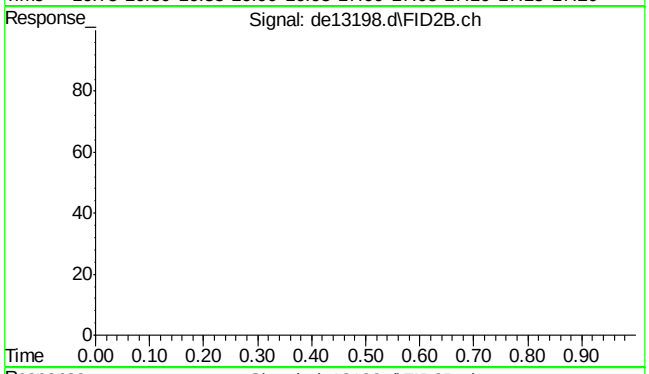
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



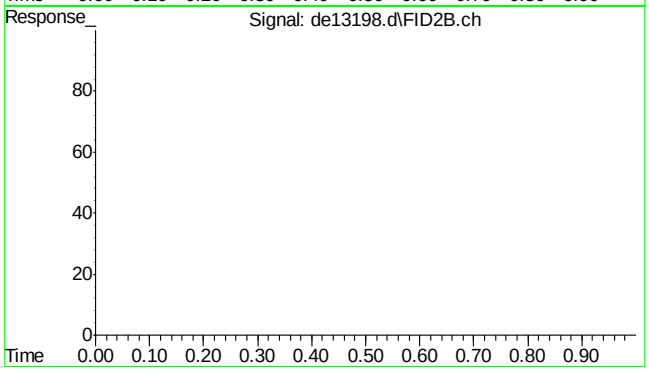
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2933493
Conc: 43.91 µg/ml m



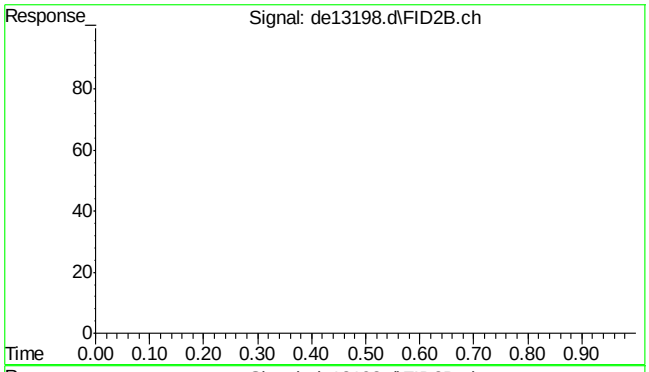
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



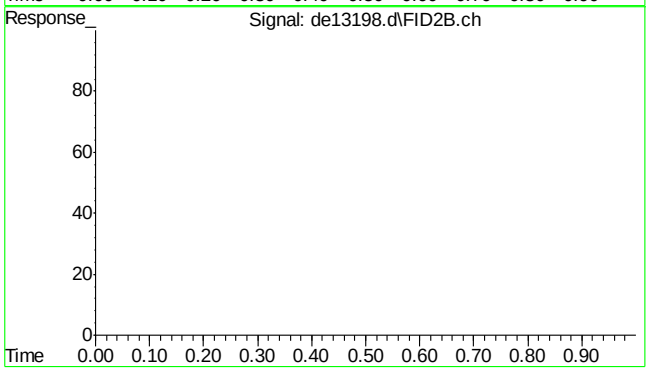
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

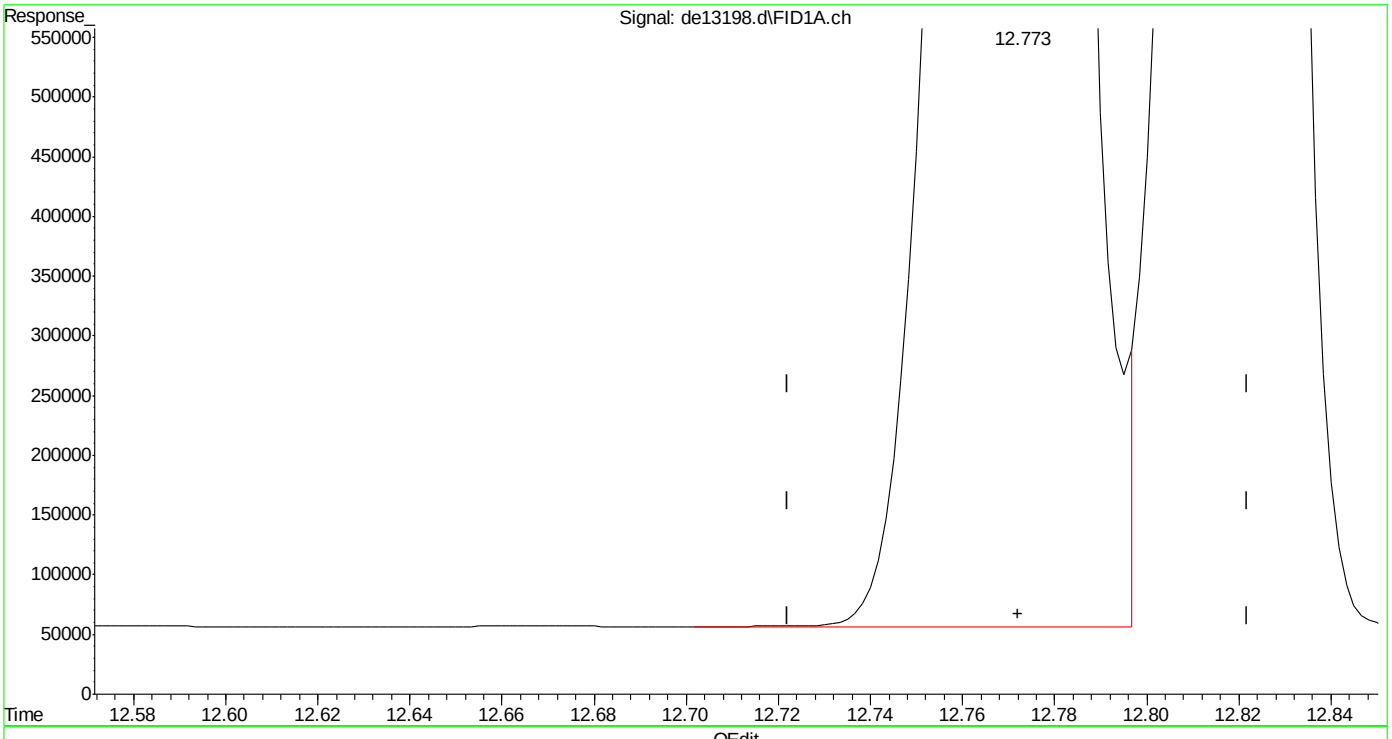

SGS ACCUTEST MC45969

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

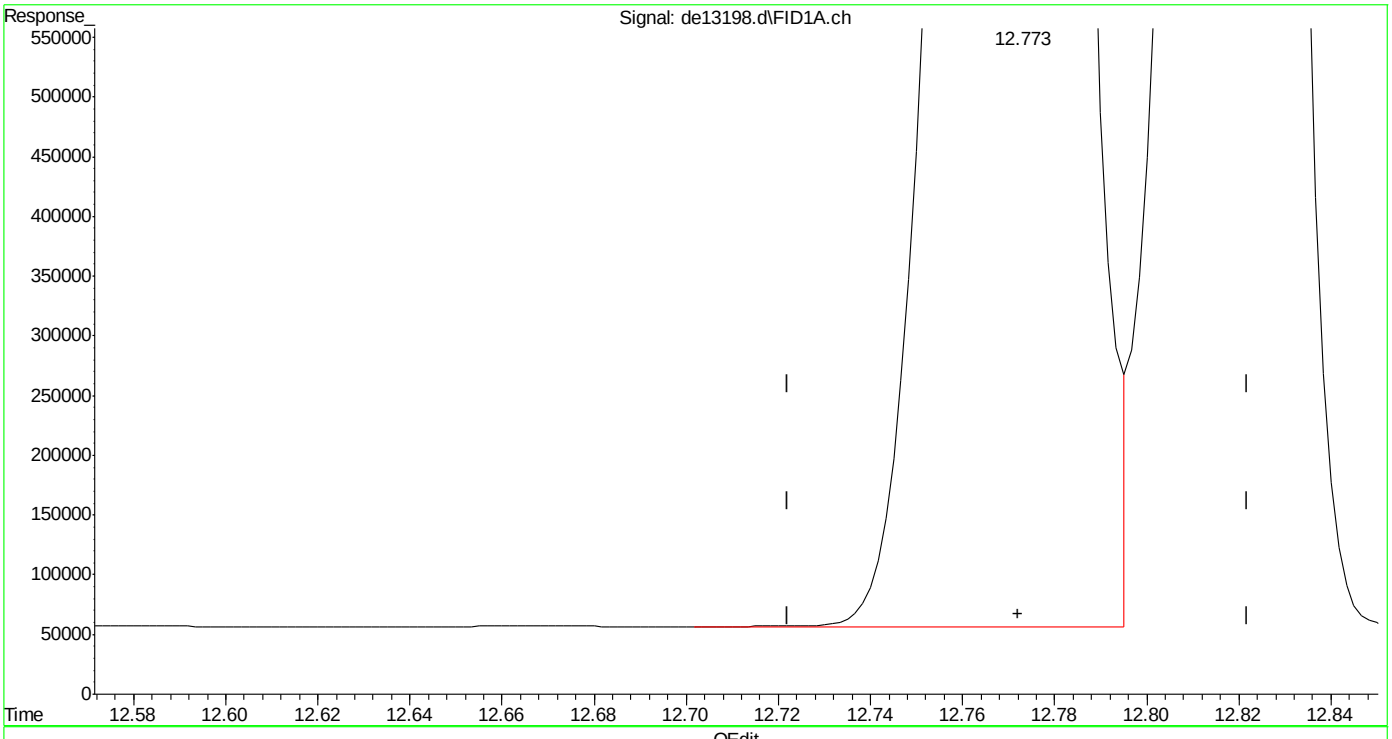
(+) = Expected Retention Time

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

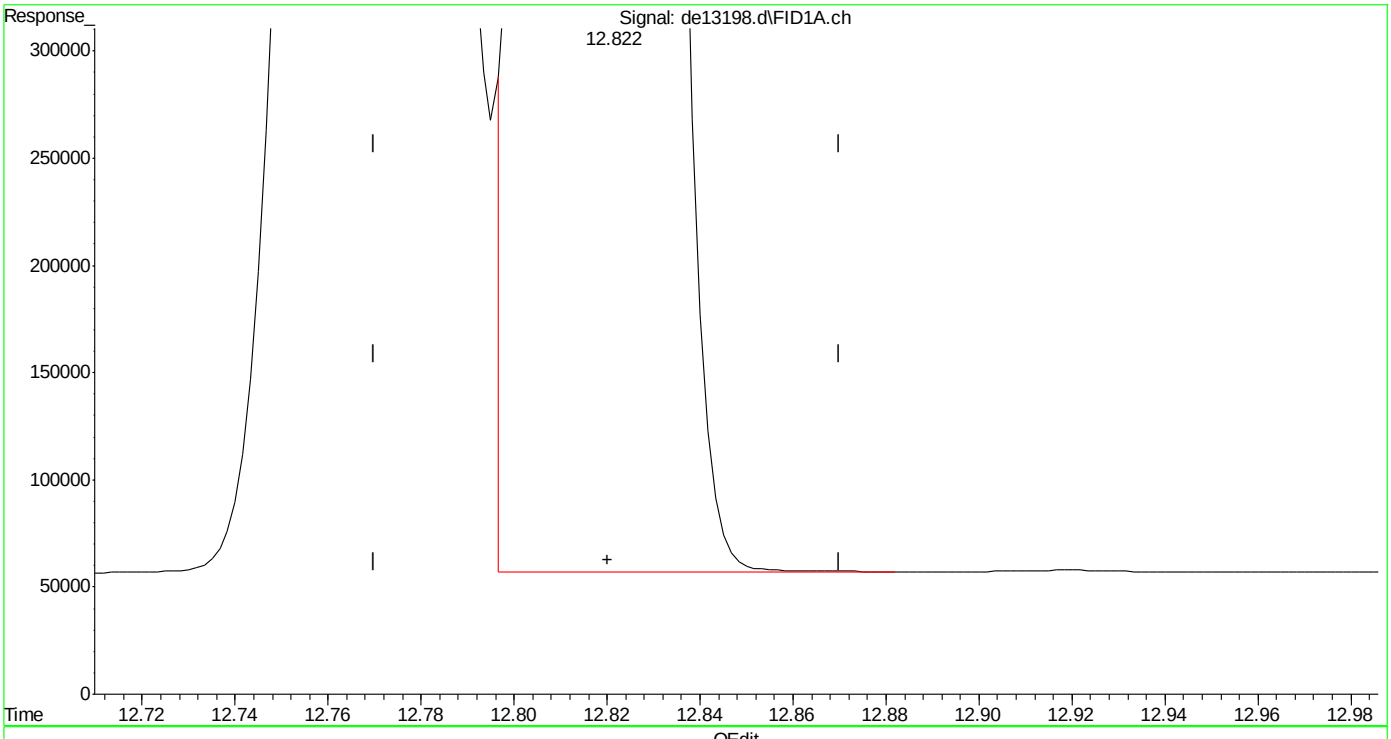
(+) = Expected Retention Time

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

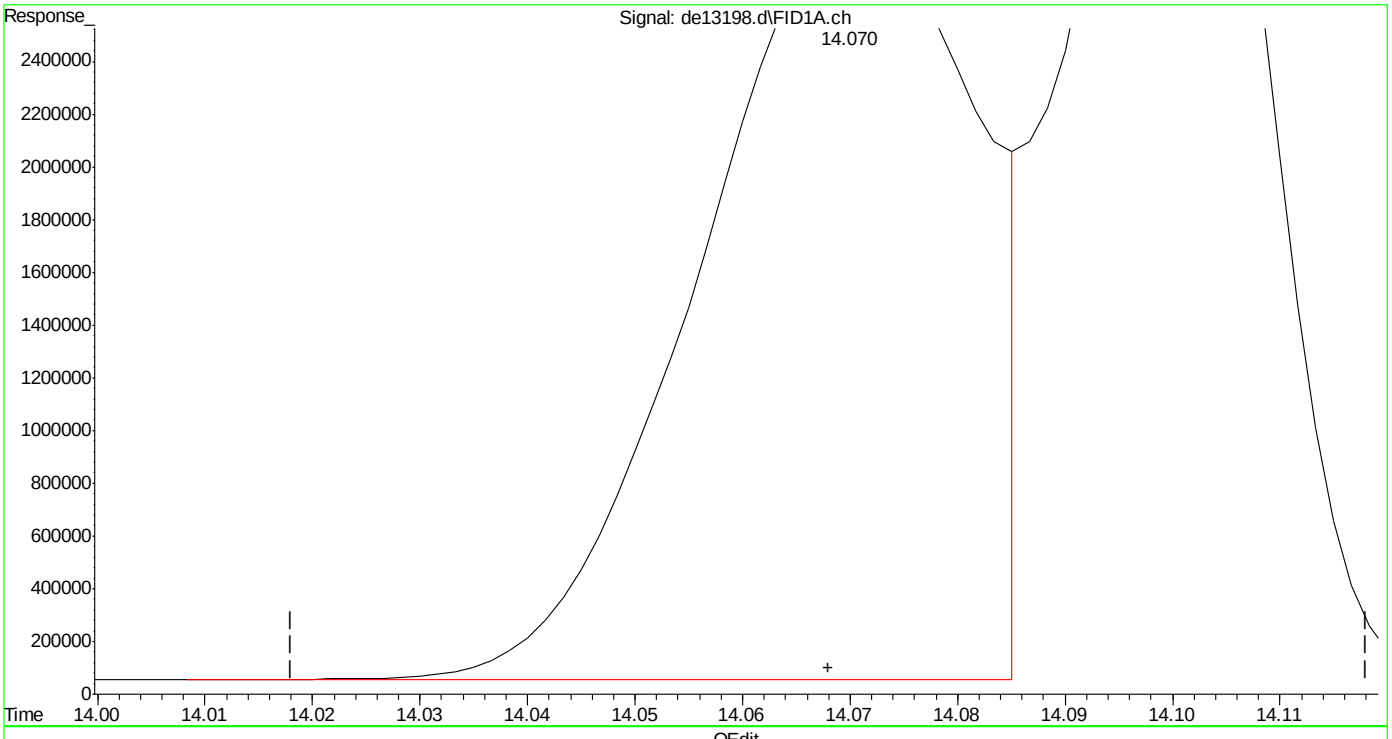
(+) = Expected Retention Time
EPH160204W.M Fri Feb 05 11:46:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.070min 51.778 µg/ml m
response 5126155

(+) = Expected Retention Time

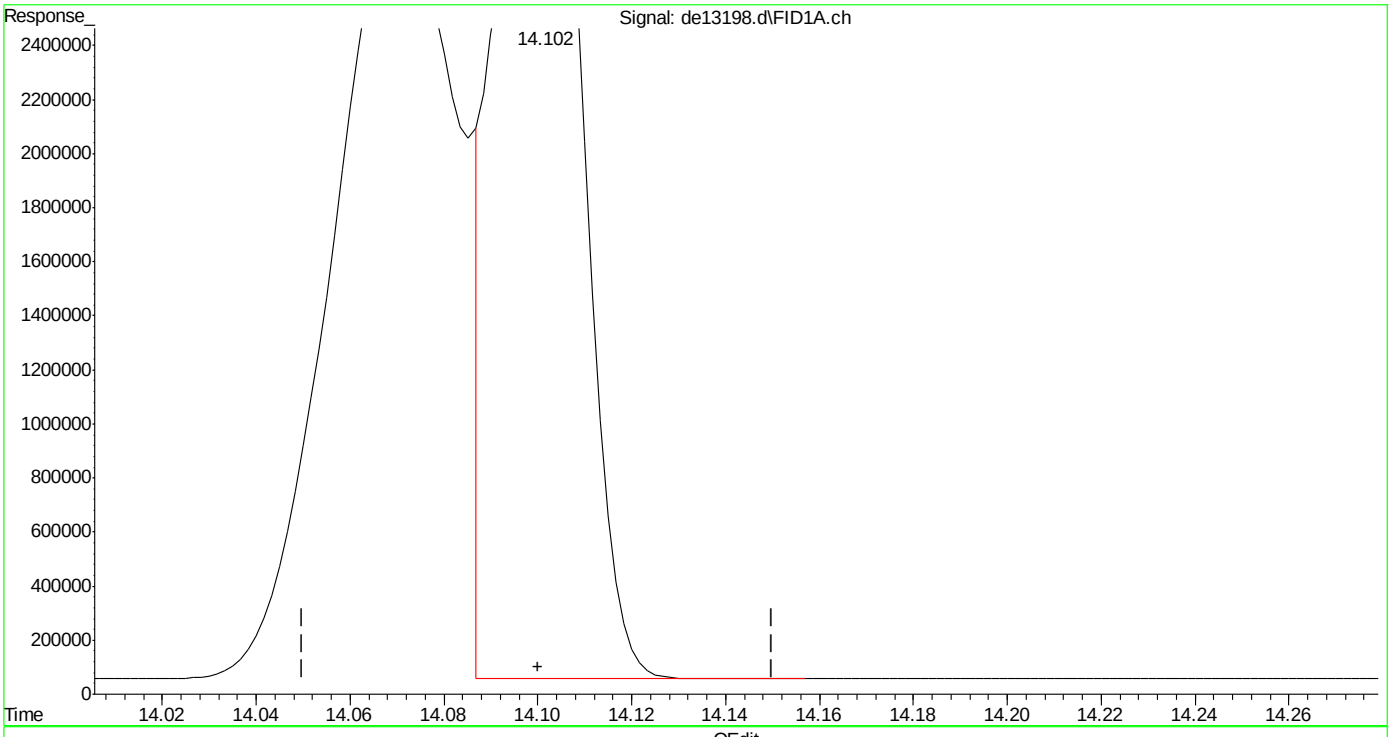
SGS ACCUTEST MC45969

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
EPH160204W.M Fri Feb 05 11:47:01 2016 Page: 1

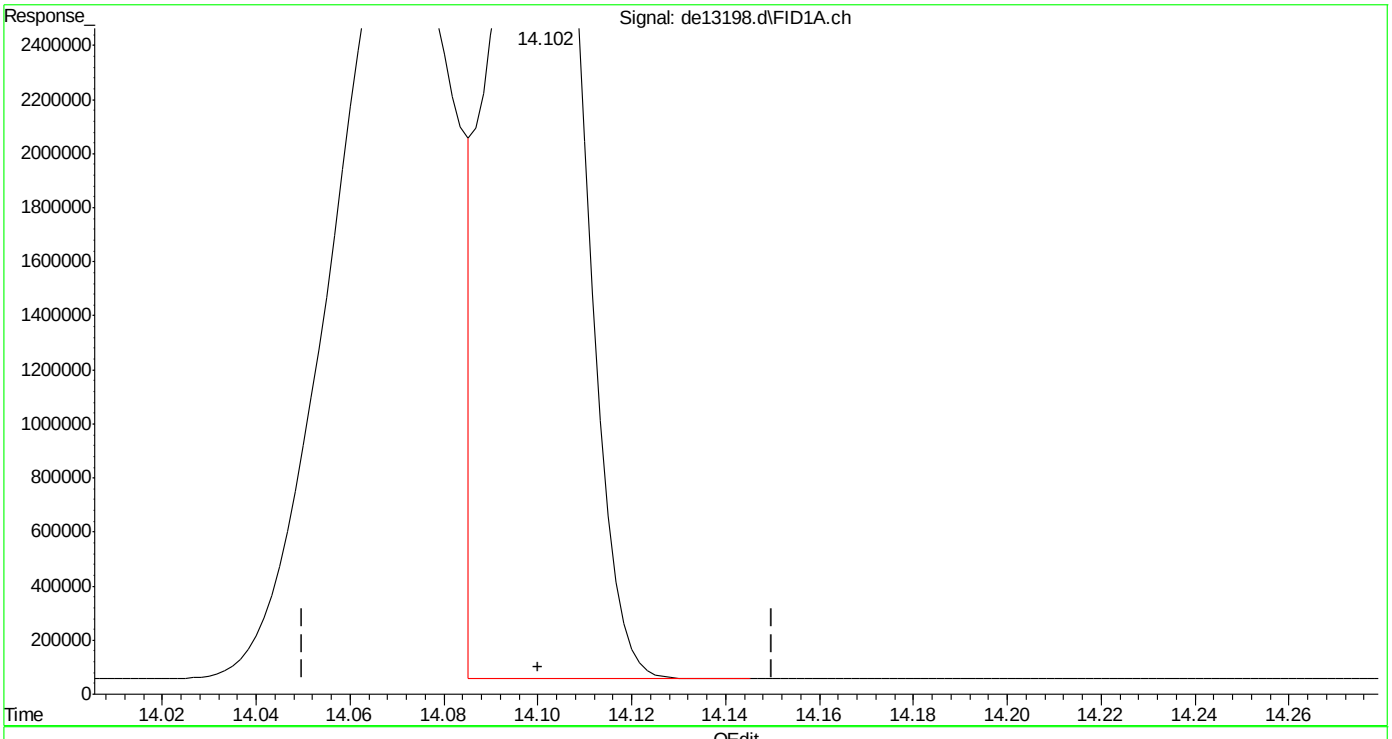
SGS ACCUTEST MC45969

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.102min 50.882 µg/ml m
response 4808431

(+) = Expected Retention Time

SGS ACCUTEST MC45969

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:19 am
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:54:09 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.603	4612011	50.006 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 250.03%#
6) s	2-bromonaphthalene	7.332	3100198	49.402 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 247.01%#
11) s	o-terphenyl	9.870	5224256	51.005 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 255.03%#
35) s	1-chlorooctadecane	11.227	2987037	52.798 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 263.99%#
	Target Compounds			
2)	naphthalene	5.150	5103736	49.484 µg/ml
3)	2-methylnaphthalene	6.050	5128792	50.046 µg/ml
5)	acenaphthylene	7.163	5085598	50.552 µg/ml
7)	acenaphthene	7.405	5248182	50.768 µg/ml
8)	fluorene	8.048	5191031	51.109 µg/ml
9)	phenanthrene	9.228	5204890	51.147 µg/ml
10)	anthracene	9.287	5018553	51.733 µg/ml
12)	fluoranthene	10.732	5180100	51.832 µg/ml
13)	pyrene	10.988	5315819	52.392 µg/ml
14)	benzo(a)anthracene	12.552	5013037	51.855 µg/ml
15)	chrysene	12.600	5113663	52.533 µg/ml
16)	benzo(B)fluoranthene	13.848	5216732	52.693 µg/ml
17)	benzo(k)fluoranthene	13.878	5170666	54.715 µg/ml
18)	benzo(a)pyrene	14.183	4970903	53.777 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.322	5300042	55.991 µg/ml
20)	dibenzo(ah)anthracene	15.367	4964956	54.322 µg/ml
21)	benzo(ghi)perylene	15.547	5112069	55.492 µg/ml
25) h	c-9	2.647	3841390	52.001 µg/mlm
26) h	c-10	3.815	3884834	52.589 µg/ml
27)	naphthalene #2	5.488	4141960	51.857 µg/ml
28)	c-12	5.665	3847998	52.090 µg/ml
29)	2-methylnaphthalene #2	6.382	4132998	51.299 µg/ml
30)	c-14	7.182	3807968	51.548 µg/ml
31)	c-16	8.512	3774924	51.101 µg/ml
32)	c-18	9.707	3787280	51.268 µg/ml
33)	c-19	10.262	3761466	56.304 µg/ml
34)	c-20	10.792	3690795	55.246 µg/ml
36)	c-22	11.788	3674073	54.996 µg/ml
37)	c-24	12.705	3438269	51.466 µg/ml
38)	c-26	13.555	3655428	54.717 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:19 am
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:54:09 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.350	3529075	52.825	µg/ml
40) h	c-30	15.098	3519046	52.675	µg/mlm
41) h	c-36	16.983	3196867	47.853	µg/mlm

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

9.4.9

9

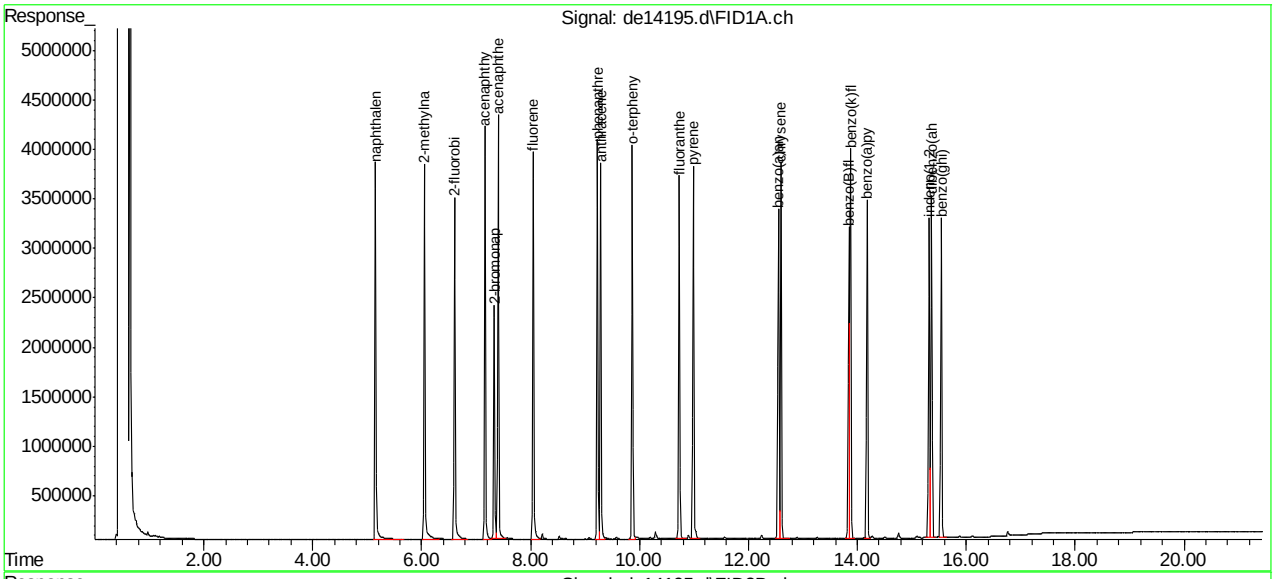
SGS ACCUTEST MC45969

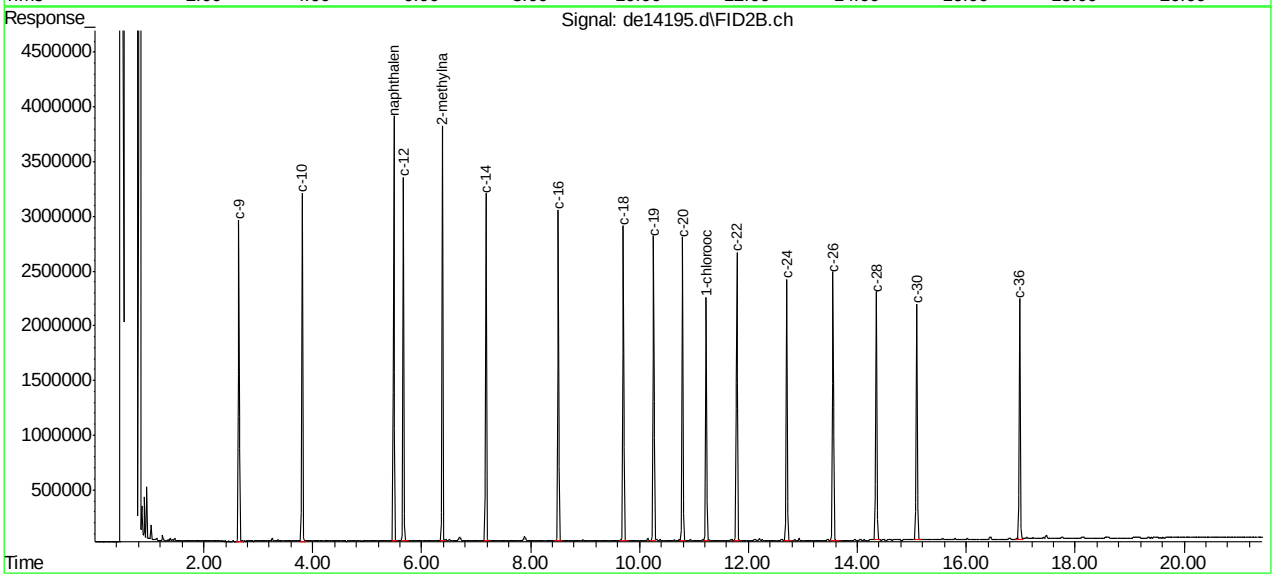
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:19 am
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

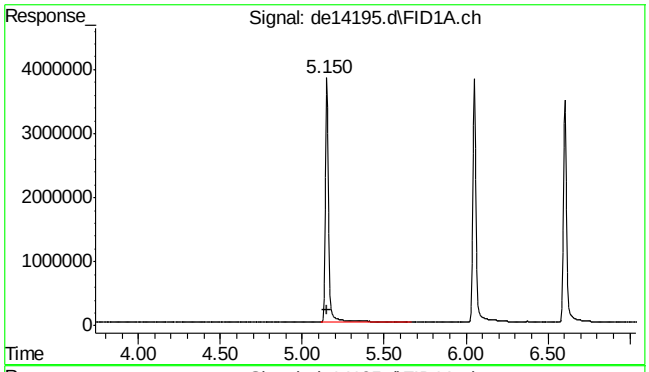
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:54:09 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



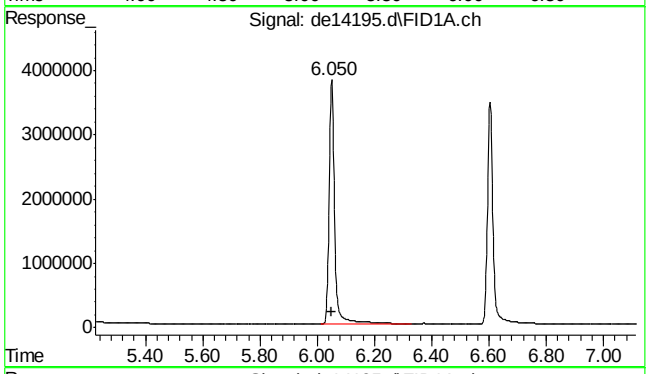


SGS ACCUTEST MC45969



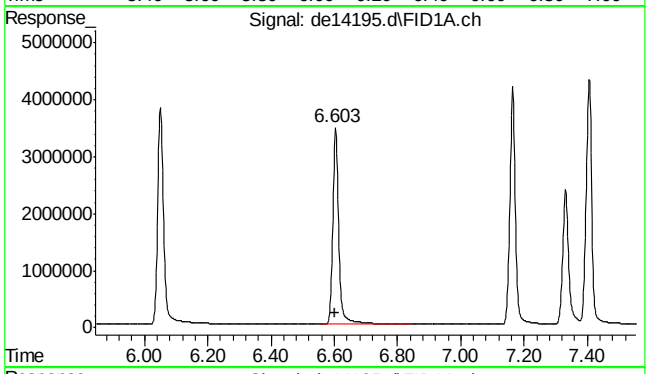
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.000 min
Response: 5103736
Conc: 49.48 µg/ml



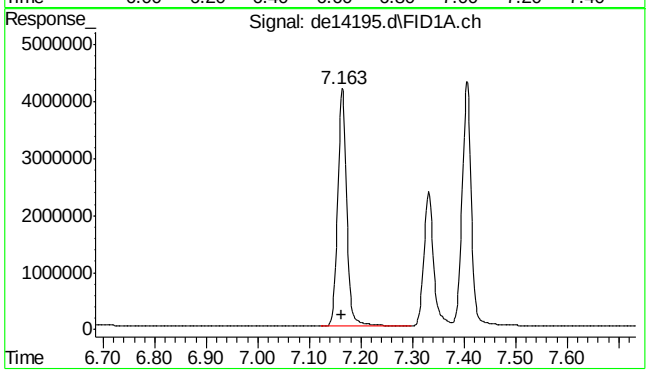
#3 2-methylnaphthalene

R.T.: 6.050 min
Delta R.T.: 0.000 min
Response: 5128792
Conc: 50.05 µg/ml



#4 2-fluorobiphenyl

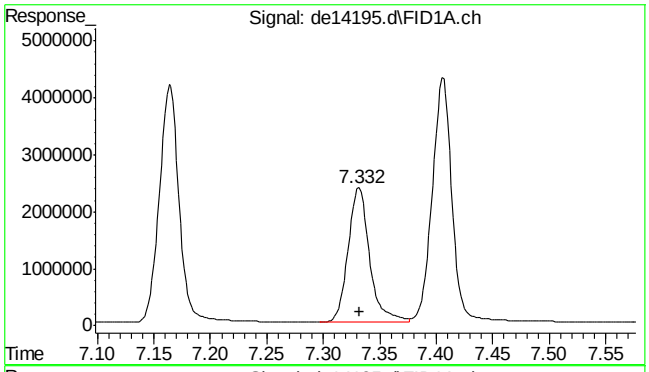
R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 4612011
Conc: 50.01 µg/ml



#5 acenaphthylene

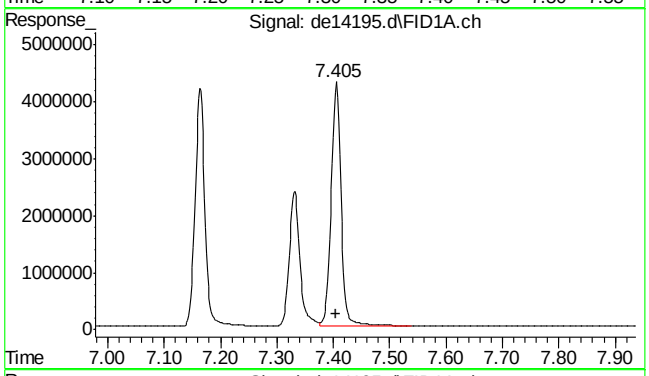
R.T.: 7.163 min
Delta R.T.: 0.000 min
Response: 5085598
Conc: 50.55 µg/ml

SGS ACCUTEST MC45969



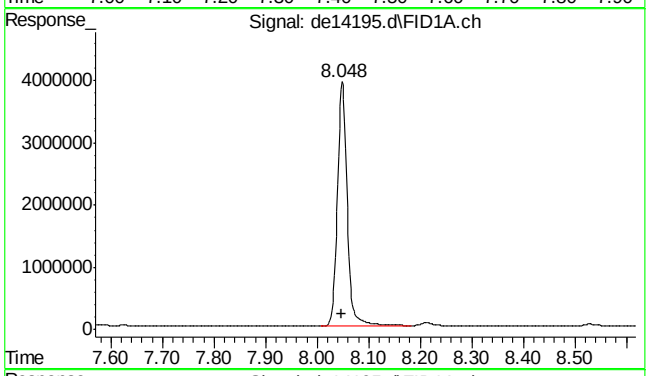
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 3100198
Conc: 49.40 µg/ml



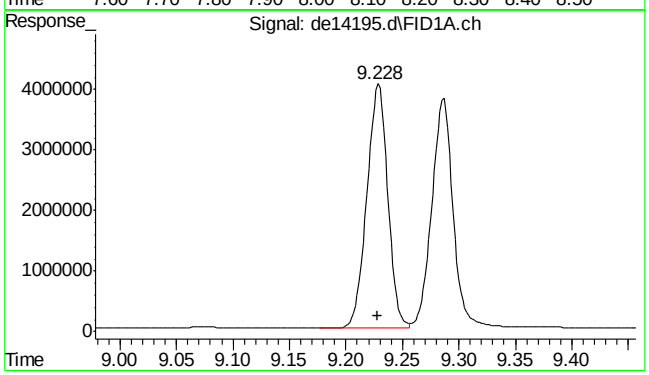
#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: 0.000 min
Response: 5248182
Conc: 50.77 µg/ml



#8 fluorene

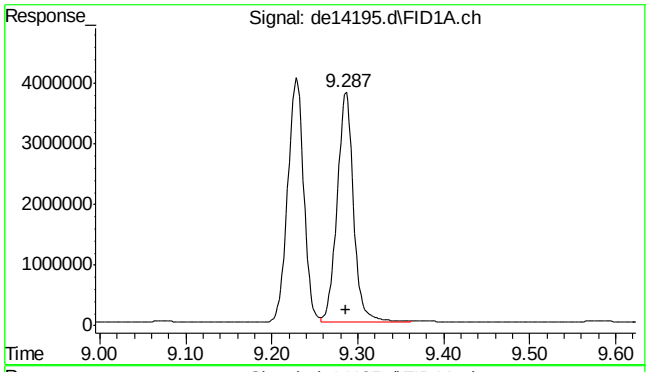
R.T.: 8.048 min
Delta R.T.: 0.000 min
Response: 5191031
Conc: 51.11 µg/ml



#9 phenanthrene

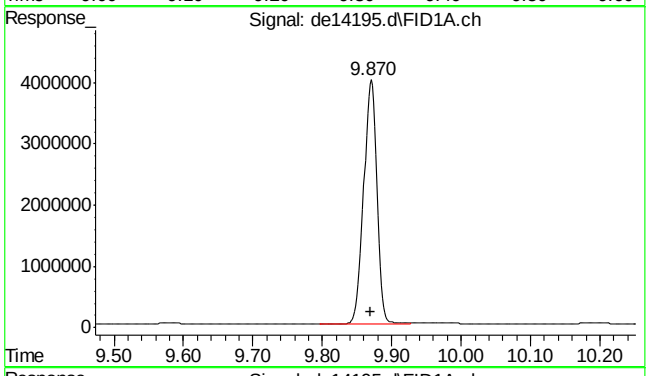
R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 5204890
Conc: 51.15 µg/ml

SGS ACCUTEST MC45969



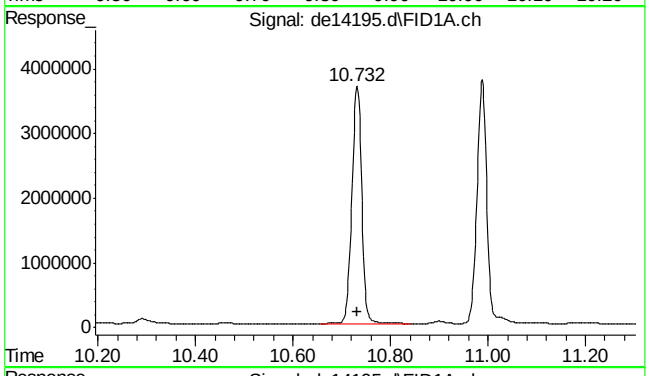
#10 anthracene

R.T.: 9.287 min
Delta R.T.: 0.000 min
Response: 5018553
Conc: 51.73 µg/ml



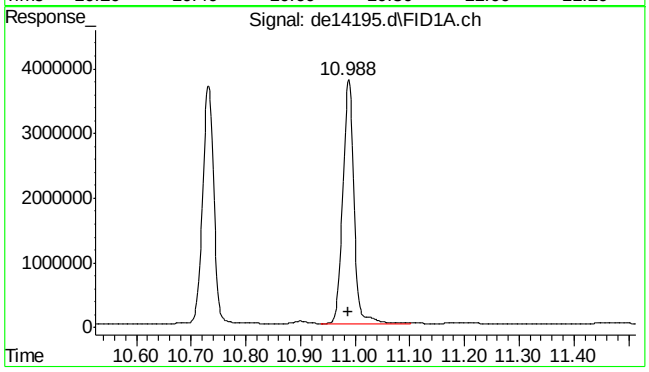
#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: 0.000 min
Response: 5224256
Conc: 51.00 µg/ml



#12 fluoranthene

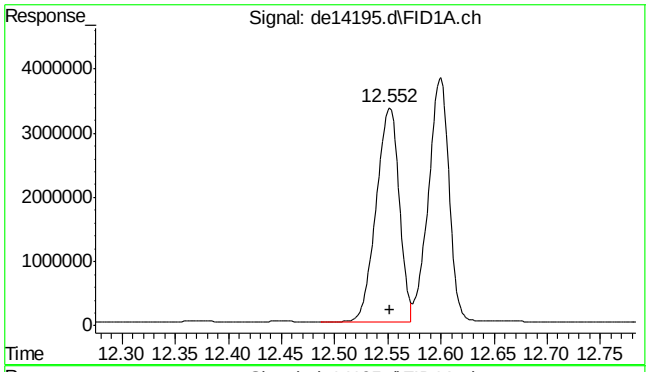
R.T.: 10.732 min
Delta R.T.: 0.000 min
Response: 5180100
Conc: 51.83 µg/ml



#13 pyrene

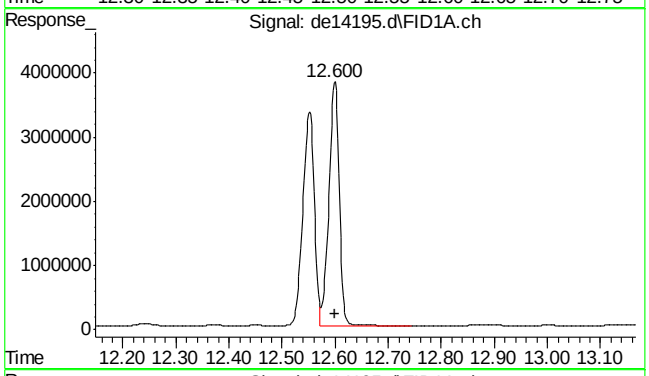
R.T.: 10.988 min
Delta R.T.: 0.000 min
Response: 5315819
Conc: 52.39 µg/ml

SGS ACCUTEST MC45969



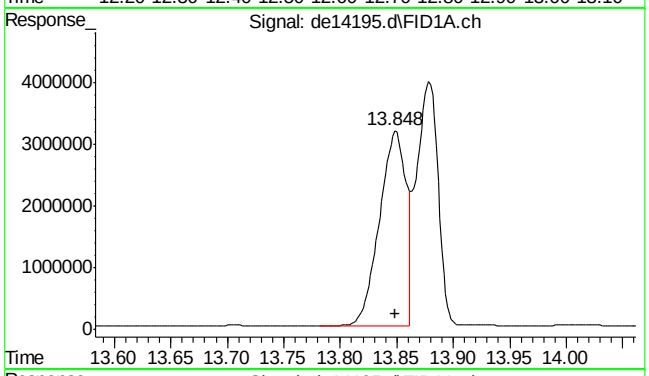
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: 0.000 min
Response: 5013037
Conc: 51.85 µg/ml



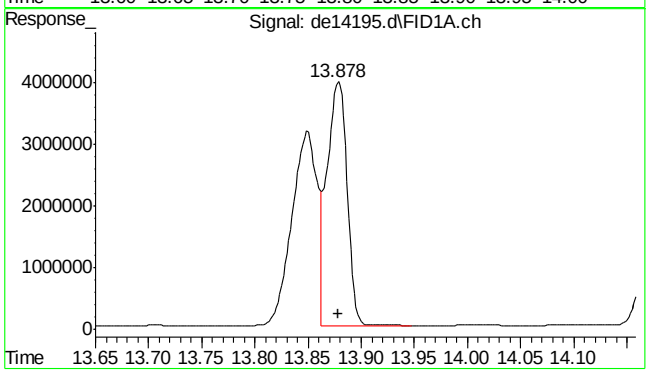
#15 chrysene

R.T.: 12.600 min
Delta R.T.: 0.000 min
Response: 5113663
Conc: 52.53 µg/ml



#16 benzo(B)fluoranthene

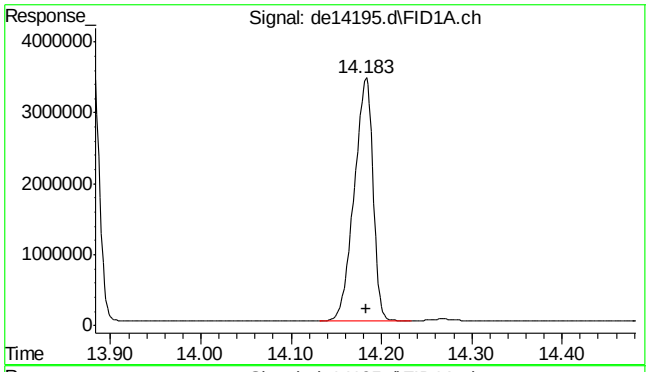
R.T.: 13.848 min
Delta R.T.: 0.000 min
Response: 5216732
Conc: 52.69 µg/ml



#17 benzo(k)fluoranthene

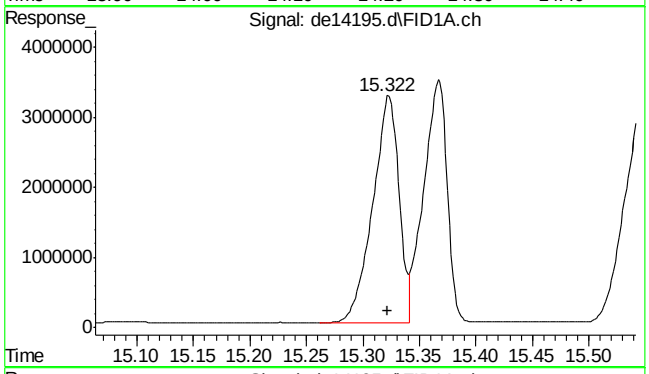
R.T.: 13.878 min
Delta R.T.: 0.000 min
Response: 5170666
Conc: 54.71 µg/ml

SGS ACCUTEST MC45969



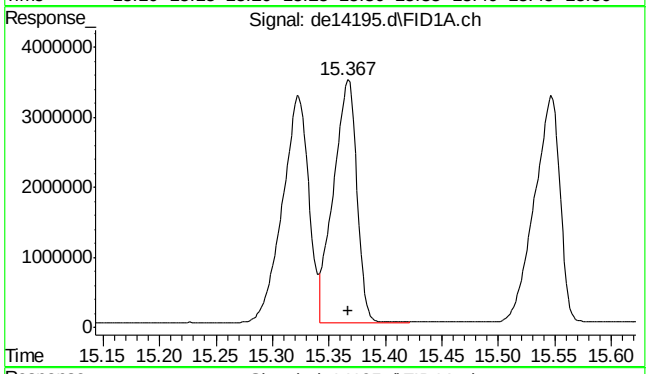
#18 benzo(a)pyrene

R.T.: 14.183 min
Delta R.T.: 0.000 min
Response: 4970903
Conc: 53.78 µg/ml



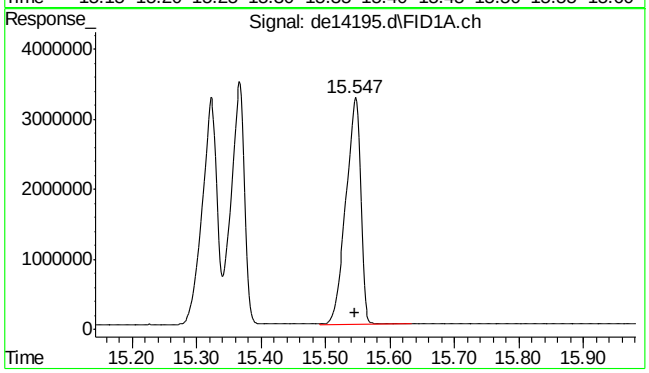
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.322 min
Delta R.T.: 0.000 min
Response: 5300042
Conc: 55.99 µg/ml



#20 dibenzo(ah)anthracene

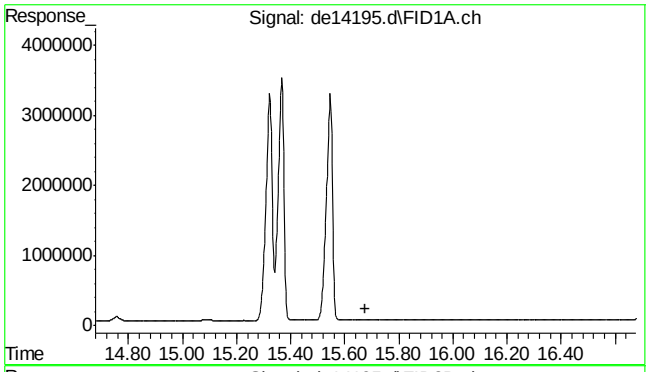
R.T.: 15.367 min
Delta R.T.: 0.000 min
Response: 4964956
Conc: 54.32 µg/ml



#21 benzo(ghi)perylene

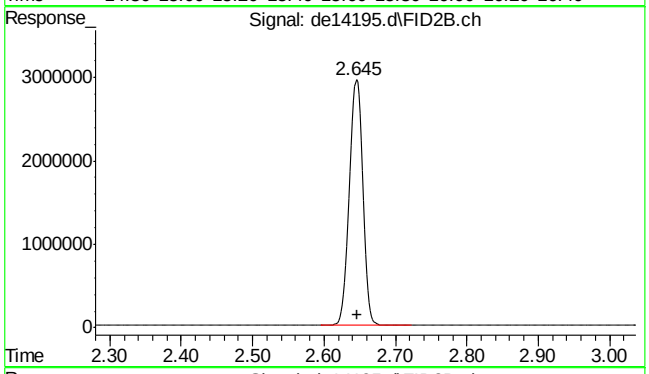
R.T.: 15.547 min
Delta R.T.: 0.000 min
Response: 5112069
Conc: 55.49 µg/ml

SGS ACCUTEST MC45969



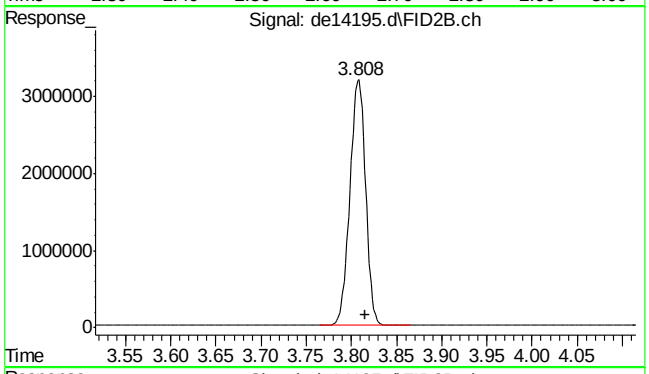
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



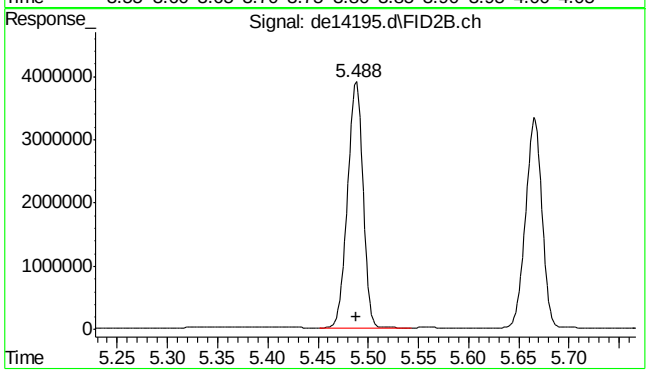
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3841390
Conc: 52.00 µg/ml m



#26 c-10

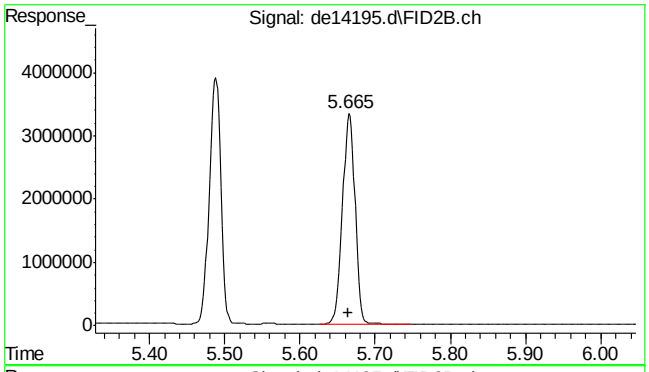
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3884834
Conc: 52.59 µg/ml



#27 naphthalene #2

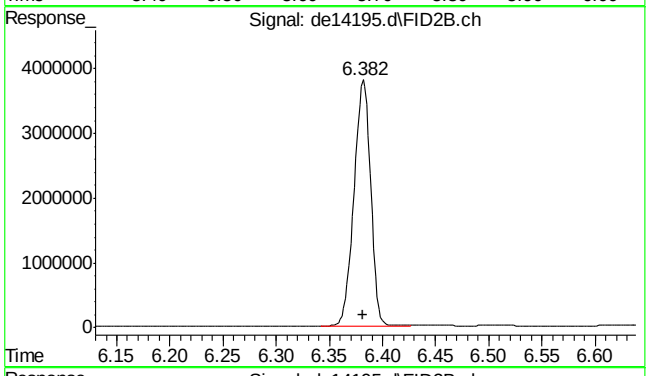
R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4141960
Conc: 51.86 µg/ml

SGS ACCUTEST MC45969



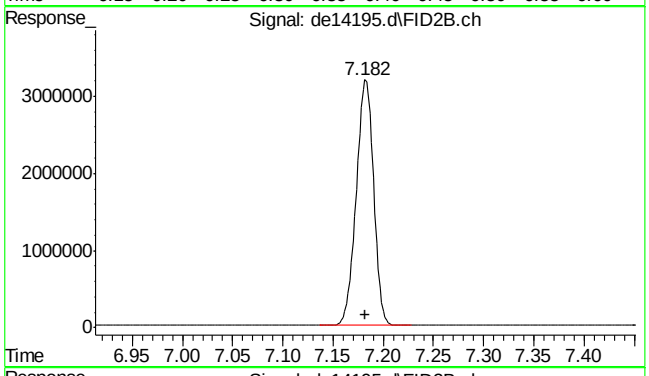
#28 c-12

R.T.: 5.665 min
Delta R.T.: 0.000 min
Response: 3847998
Conc: 52.09 µg/ml



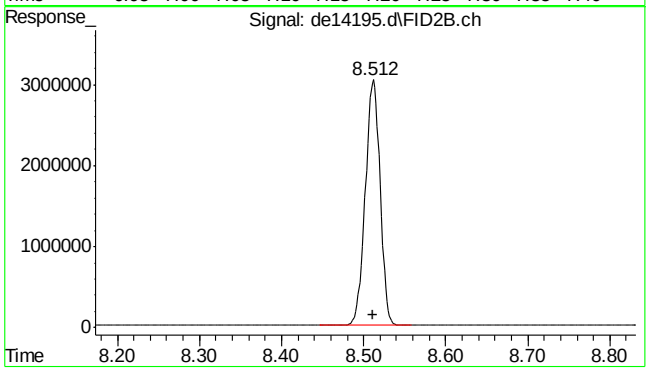
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4132998
Conc: 51.30 µg/ml



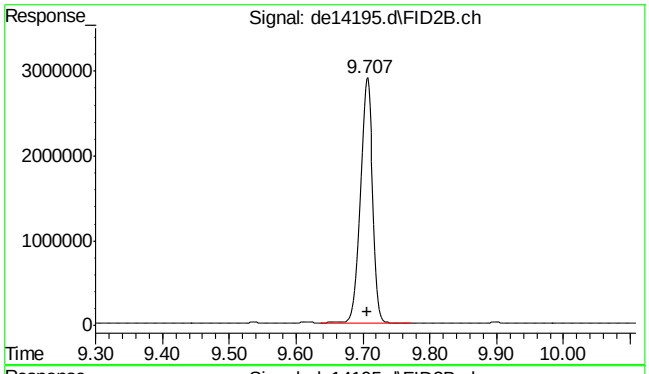
#30 c-14

R.T.: 7.182 min
Delta R.T.: 0.000 min
Response: 3807968
Conc: 51.55 µg/ml



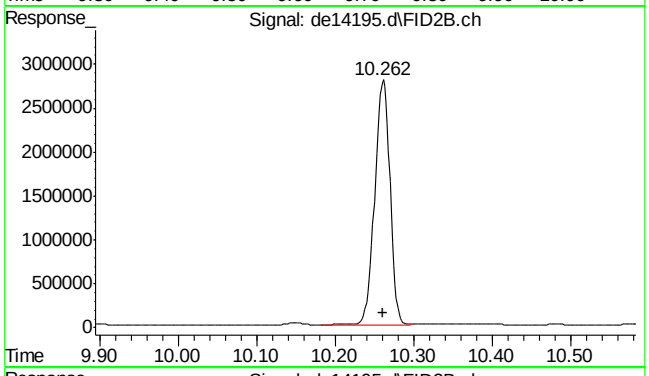
#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3774924
Conc: 51.10 µg/ml



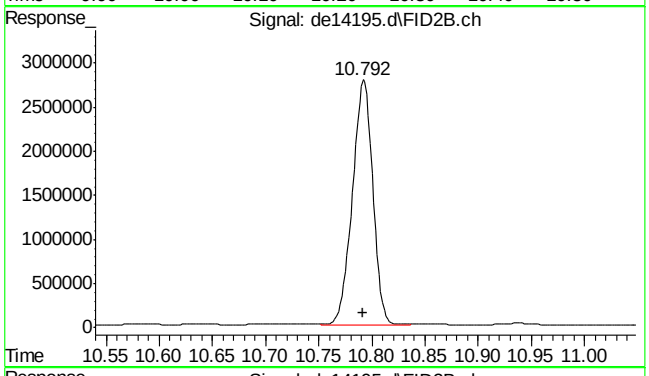
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3787280
Conc: 51.27 µg/ml



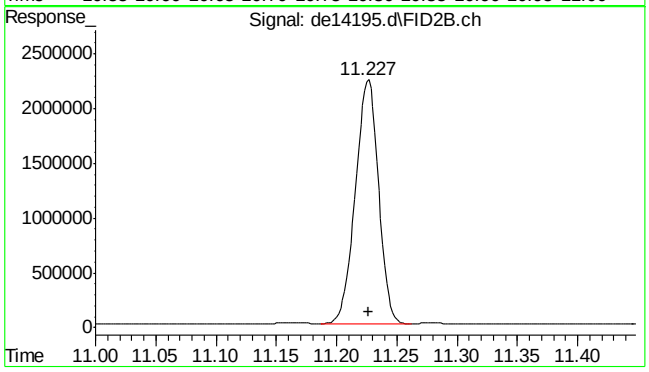
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3761466
Conc: 56.30 µg/ml



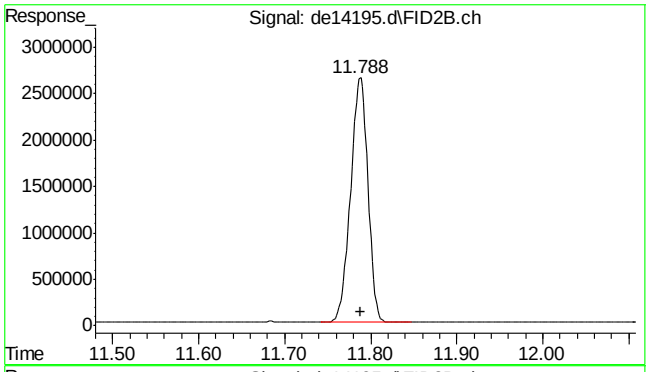
#34 c-20

R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3690795
Conc: 55.25 µg/ml



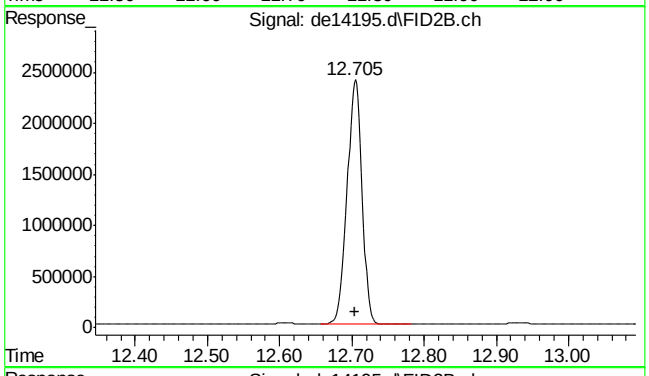
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 2987037
Conc: 52.80 µg/ml



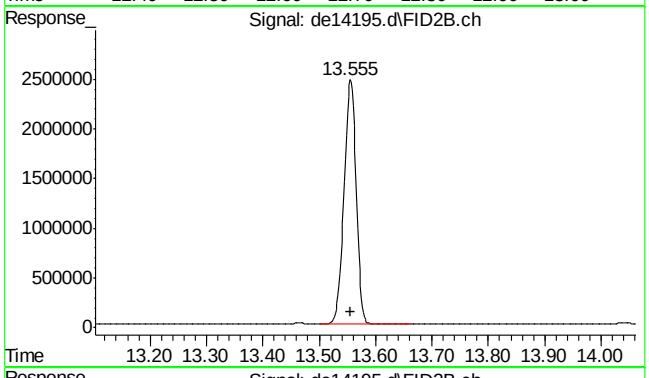
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3674073
Conc: 55.00 µg/ml



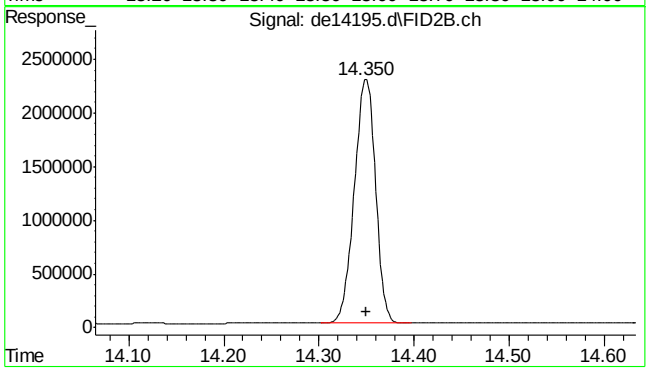
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3438269
Conc: 51.47 µg/ml



#38 c-26

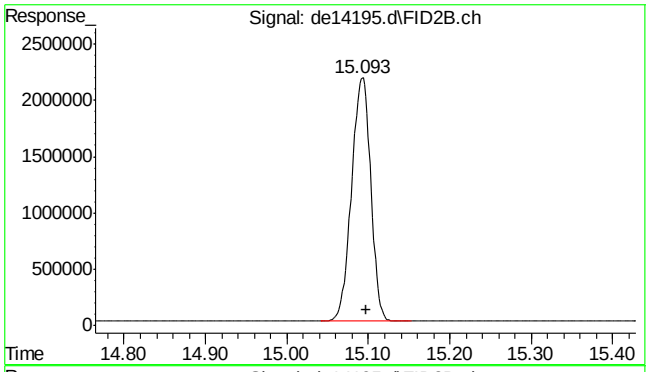
R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 3655428
Conc: 54.72 µg/ml



#39 c-28

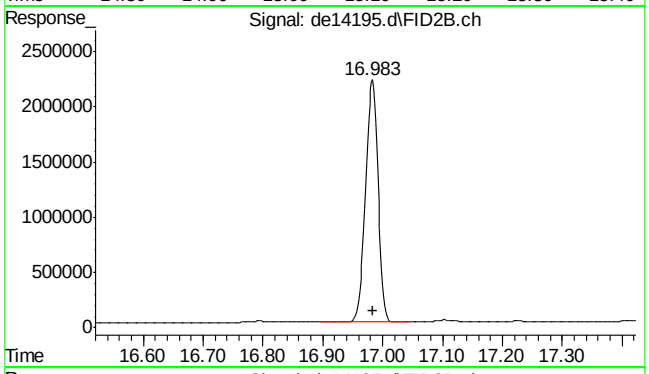
R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3529075
Conc: 52.83 µg/ml

SGS ACCUTEST MC45969



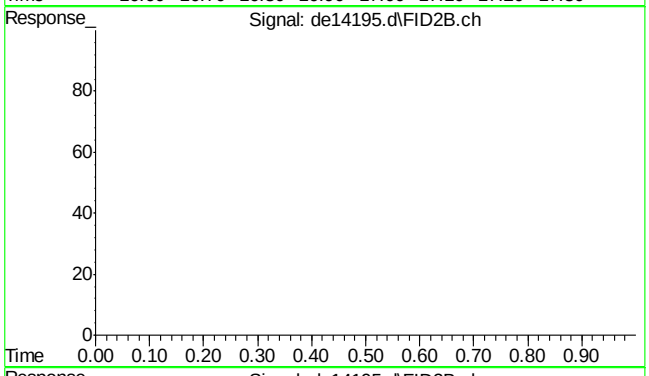
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3519046
Conc: 52.68 µg/ml m



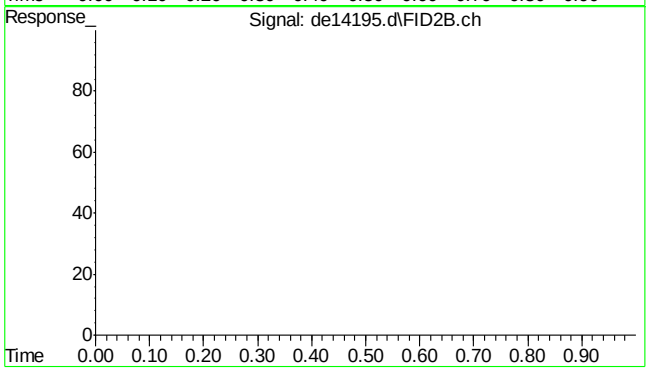
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3196867
Conc: 47.85 µg/ml m



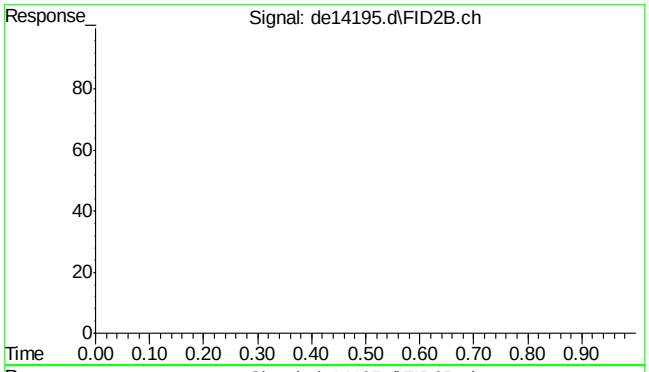
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



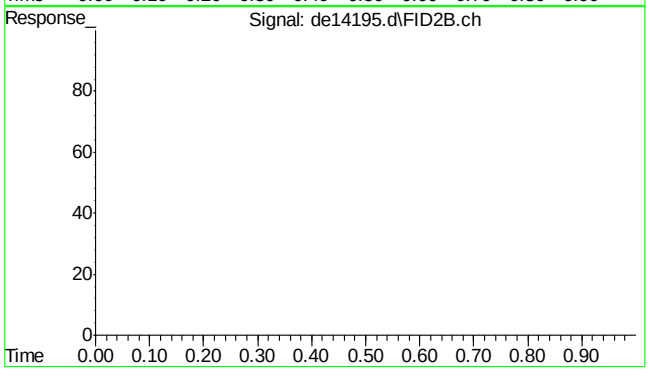
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

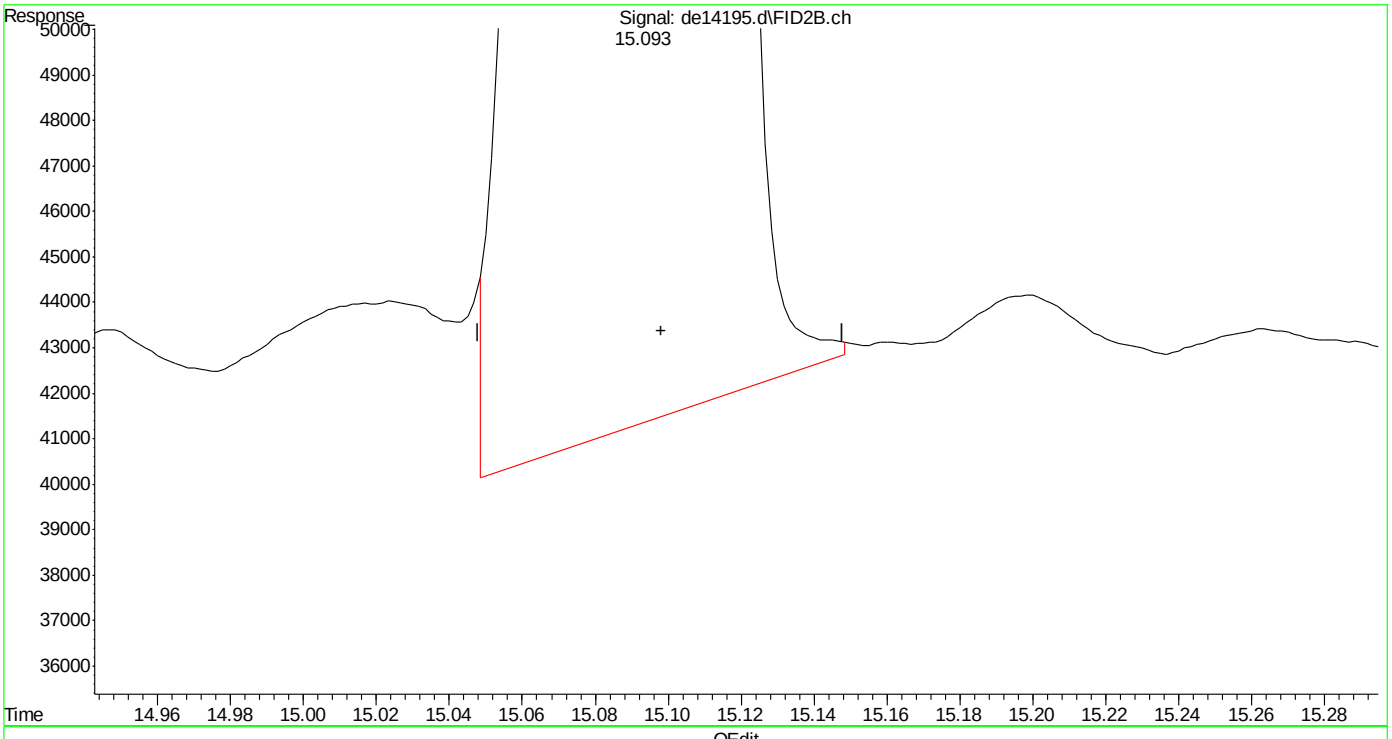
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:19 am
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:07:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 52.762 µg/ml
response 3524837

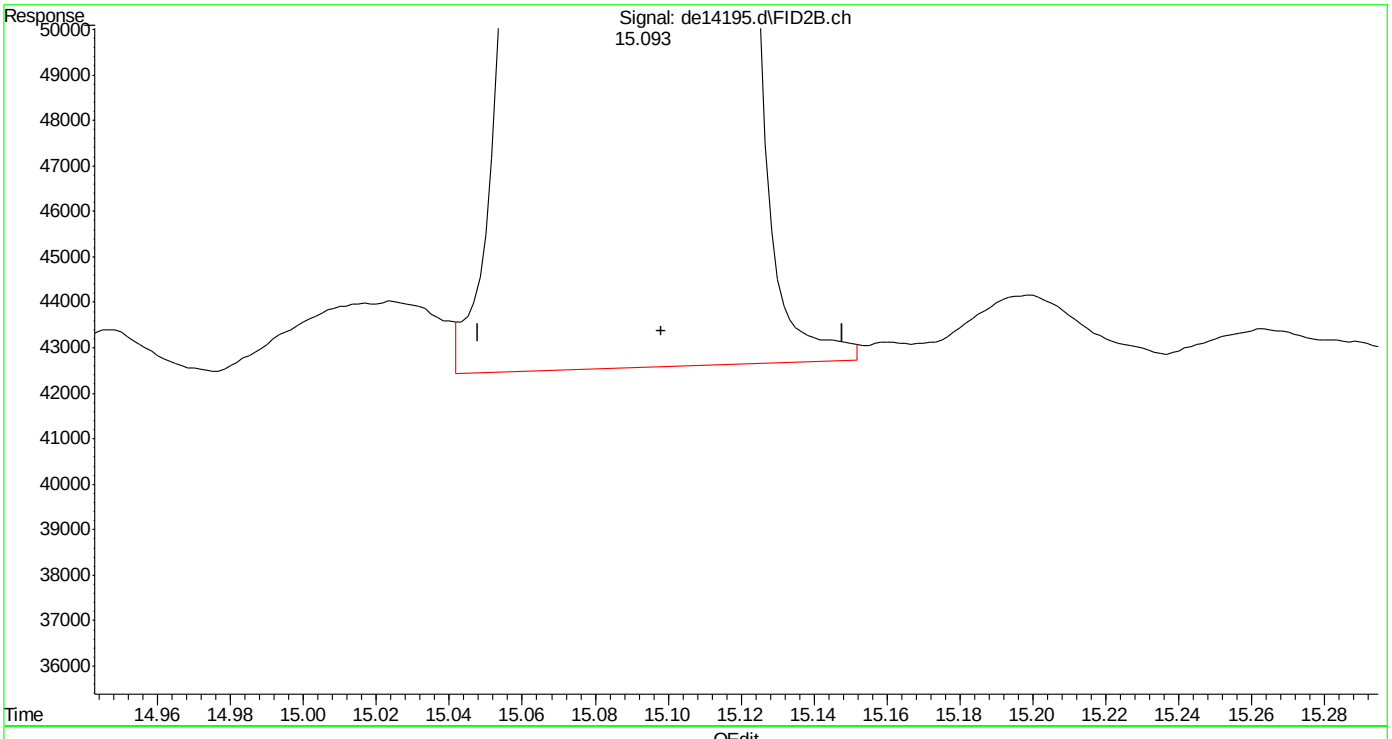
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 9:19 am
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:07:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 52.675 µg/ml m
response 3519046

(+) = Expected Retention Time
EPH160521W.M Mon May 23 07:54:00 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14206.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 2:26 pm
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:50:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.605	5241976	56.836 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 284.18%#
6) s	2-bromonaphthalene	7.332	3533898	56.313 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 281.57%#
11) s	o-terphenyl	9.870	5755800	56.194 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 280.97%#
35) s	1-chlorooctadecane	11.225	2940275	51.971 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 259.86%#
	Target Compounds			
2)	naphthalene	5.150	5829188	56.517 µg/ml
3)	2-methylnaphthalene	6.052	5727067	55.884 µg/ml
5)	acenaphthylene	7.163	5772137	57.376 µg/ml
7)	acenaphthene	7.405	6043745	58.464 µg/ml
8)	fluorene	8.050	5846141	57.559 µg/ml
9)	phenanthrene	9.228	5754826	56.551 µg/ml
10)	anthracene	9.287	5540596	57.115 µg/ml
12)	fluoranthene	10.732	5529121	55.324 µg/ml
13)	pyrene	10.990	5638273	55.570 µg/ml
14)	benzo(a)anthracene	12.552	5175598	53.536 µg/ml
15)	chrysene	12.600	5145989	52.866 µg/ml
16)	benzo(B)fluoranthene	13.850	4999564	50.499 µg/ml
17)	benzo(k)fluoranthene	13.878	5376649	56.894 µg/ml
18)	benzo(a)pyrene	14.182	4947921	53.528 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.325	5150496	54.412 µg/ml
20)	dibenzo(ah)anthracene	15.367	5040681	55.150 µg/ml
21)	benzo(ghi)perylene	15.547	5068014	55.013 µg/ml
25) h	c-9	2.647	3641184	49.290 µg/mlm
26) h	c-10	3.815	3695978	50.032 µg/ml
27)	naphthalene #2	5.487	3955496	49.523 µg/ml
28)	c-12	5.665	3675448	49.754 µg/ml
29)	2-methylnaphthalene #2	6.382	3957701	49.123 µg/ml
30)	c-14	7.182	3661899	49.571 µg/ml
31)	c-16	8.512	3660204	49.548 µg/ml
32)	c-18	9.707	3685845	49.895 µg/ml
33)	c-19	10.260	3676886	55.038 µg/ml
34)	c-20	10.792	3621408	54.207 µg/ml
36)	c-22	11.787	3616802	54.139 µg/ml
37)	c-24	12.705	3400692	50.904 µg/ml
38)	c-26	13.557	3632612	54.375 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14206.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 2:26 pm
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:50:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.350	3554858	53.211	µg/ml
40) h	c-30	15.098	3534620	52.908	µg/mlm
41) h	c-36	16.983	3277131	49.054	µg/mlm

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

9.4.10

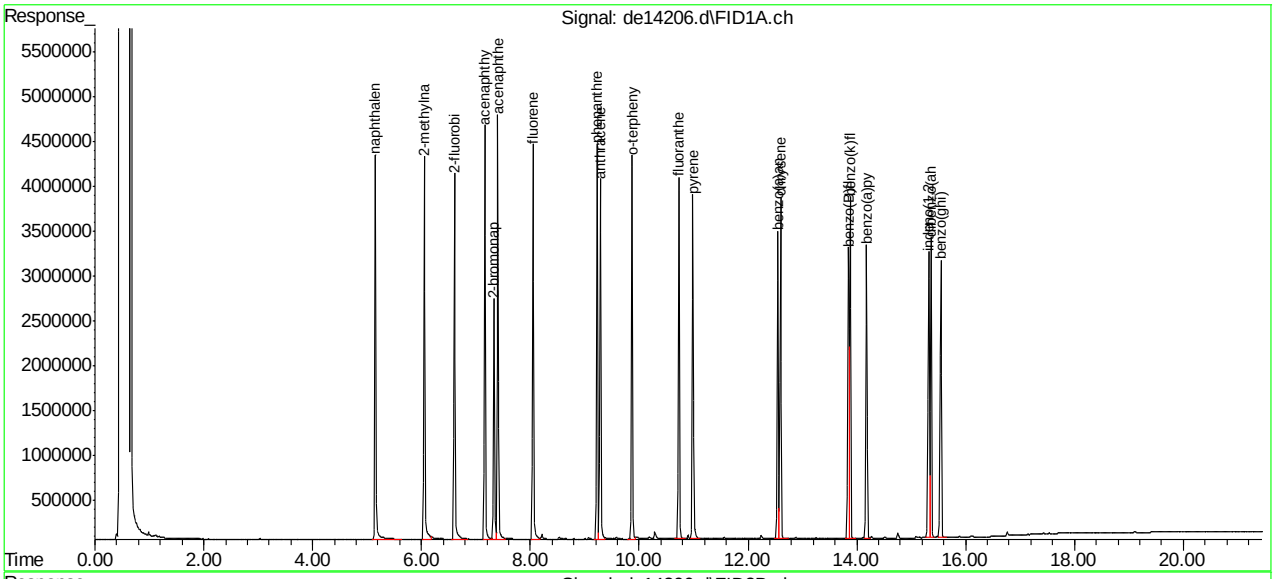
9

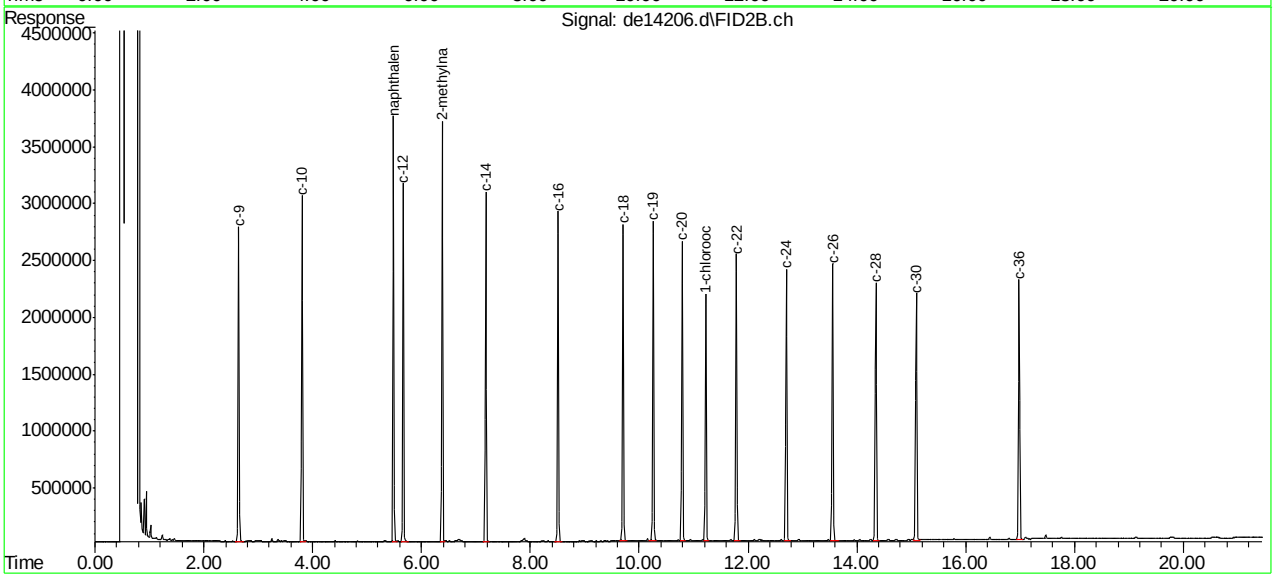
Quantitation Report (QT Reviewed)

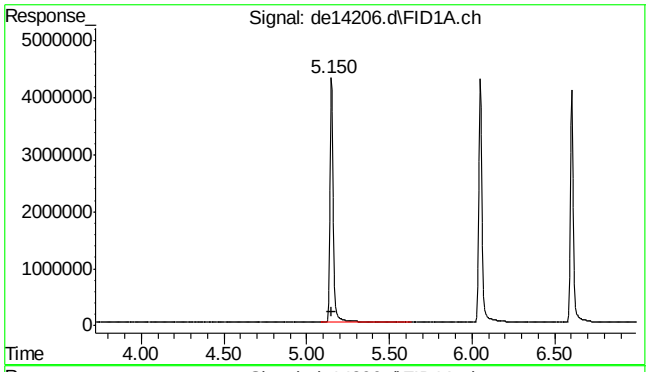
Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14206.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 2:26 pm
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:50:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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

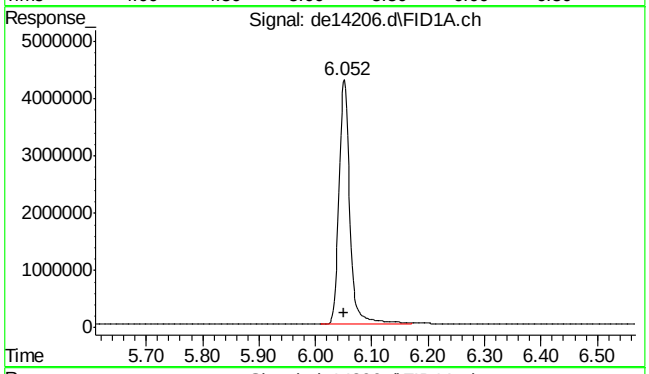






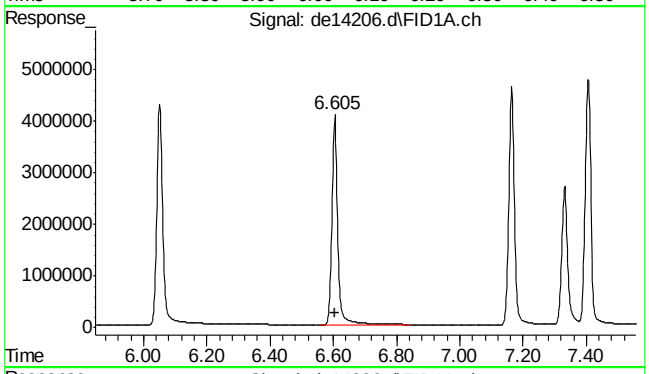
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.000 min
Response: 5829188
Conc: 56.52 µg/ml



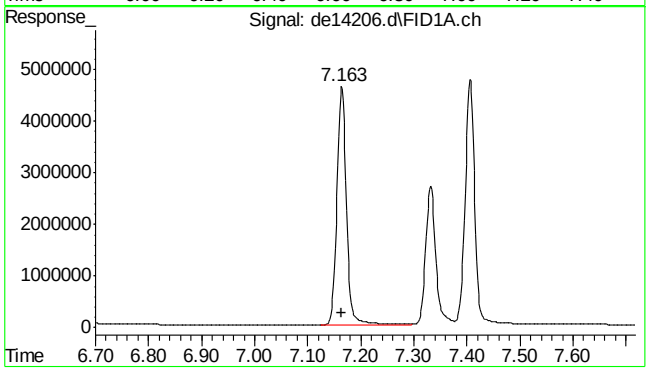
#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.002 min
Response: 5727067
Conc: 55.88 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 5241976
Conc: 56.84 µg/ml



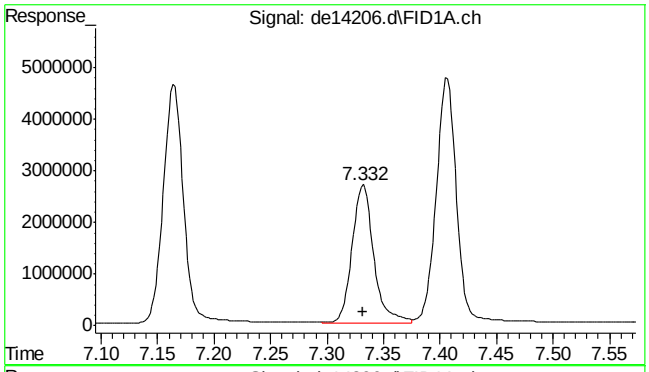
#5 acenaphthylene

R.T.: 7.163 min
Delta R.T.: 0.000 min
Response: 5772137
Conc: 57.38 µg/ml

9.4.10

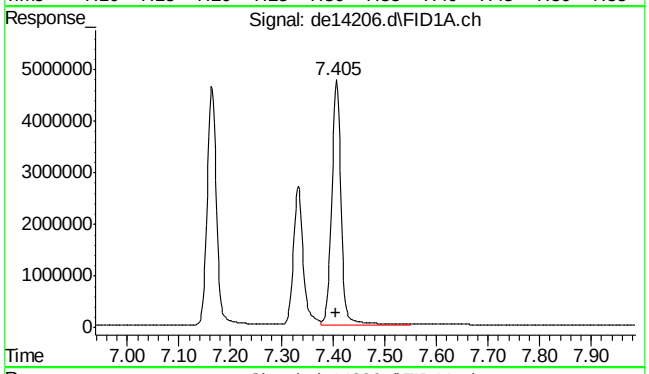
9

SGS ACCUTEST MC45969



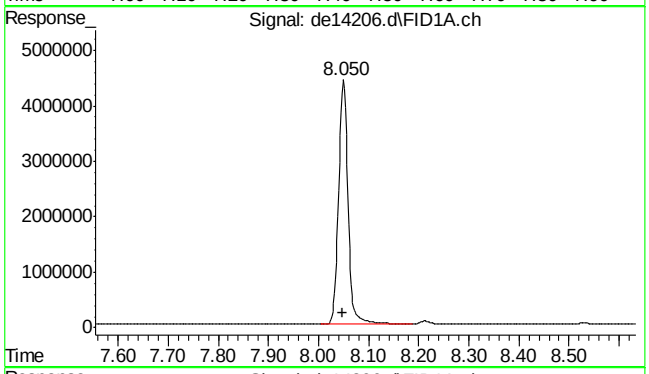
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 3533898
Conc: 56.31 µg/ml



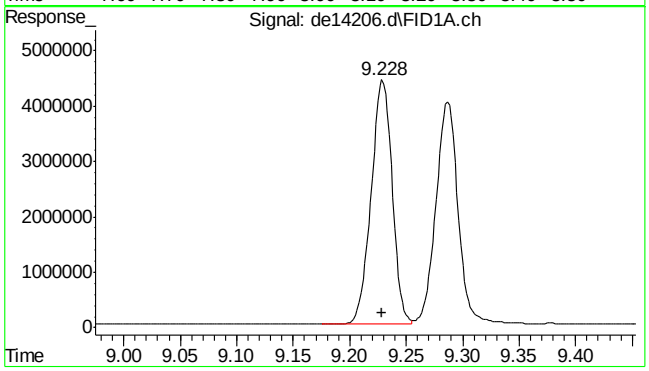
#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: 0.000 min
Response: 6043745
Conc: 58.46 µg/ml



#8 fluorene

R.T.: 8.050 min
Delta R.T.: 0.002 min
Response: 5846141
Conc: 57.56 µg/ml



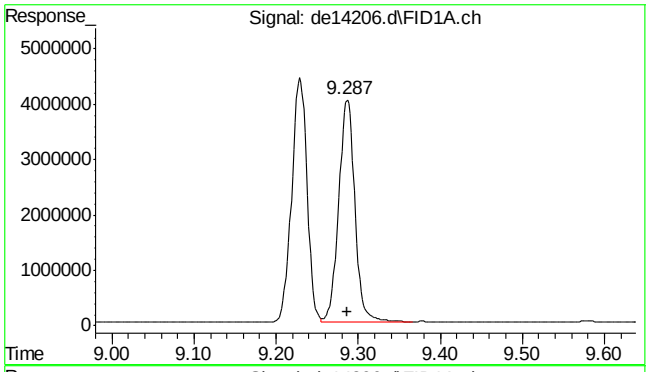
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 5754826
Conc: 56.55 µg/ml

9.4.10

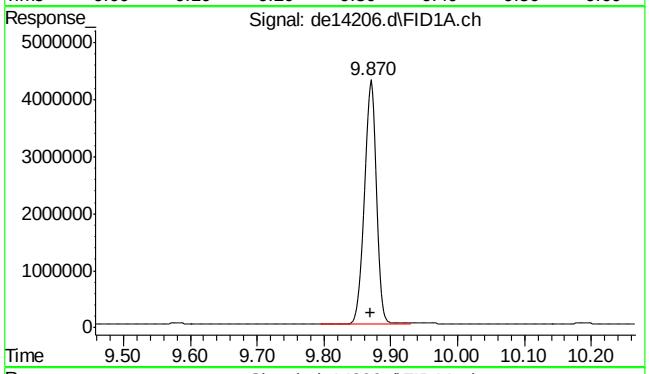
9

SGS ACCUTEST MC45969



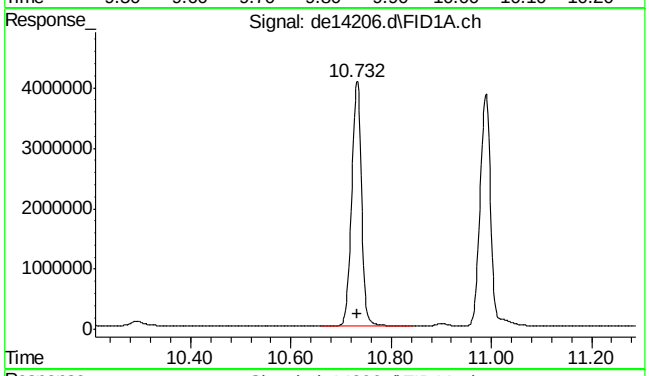
#10 anthracene

R.T.: 9.287 min
Delta R.T.: 0.000 min
Response: 5540596
Conc: 57.11 µg/ml



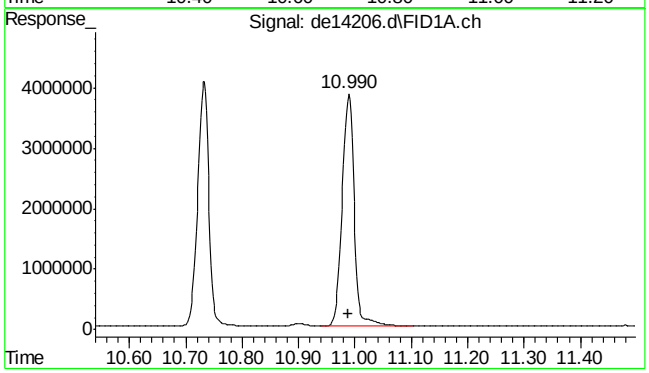
#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: 0.000 min
Response: 5755800
Conc: 56.19 µg/ml



#12 fluoranthene

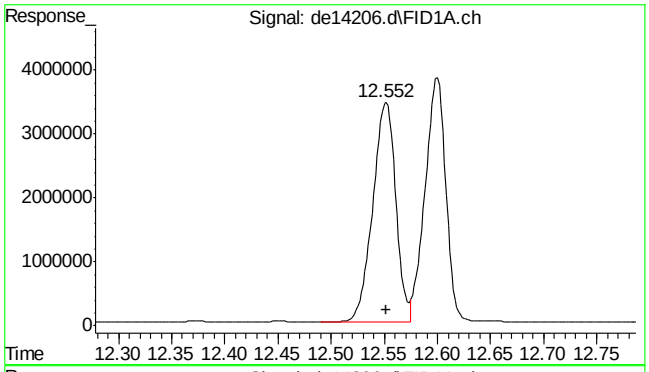
R.T.: 10.732 min
Delta R.T.: 0.000 min
Response: 5529121
Conc: 55.32 µg/ml



#13 pyrene

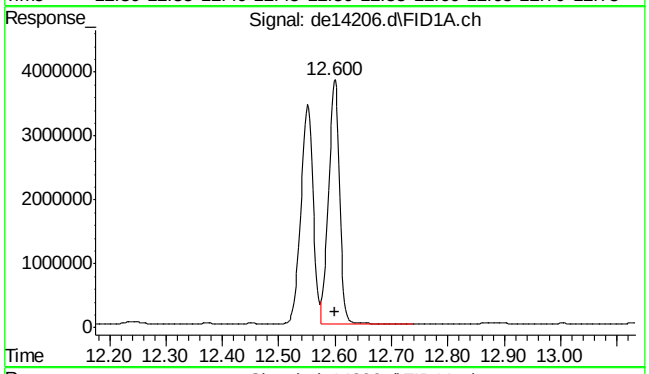
R.T.: 10.990 min
Delta R.T.: 0.002 min
Response: 5638273
Conc: 55.57 µg/ml

SGS ACCUTEST MC45969



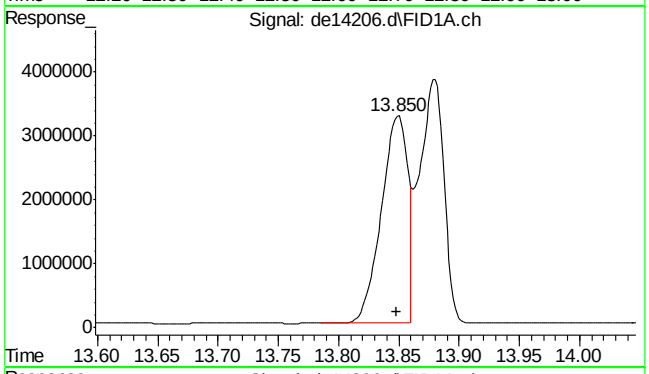
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: 0.000 min
Response: 5175598
Conc: 53.54 µg/ml



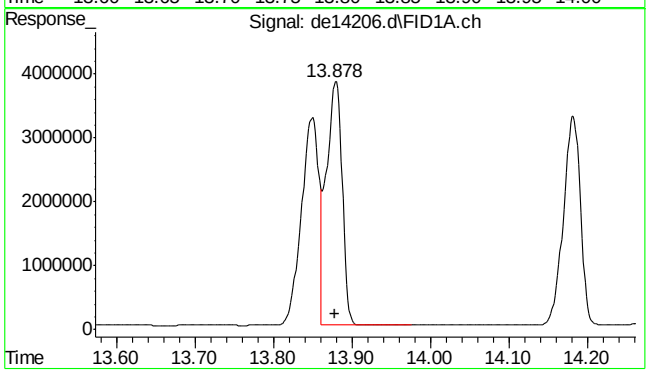
#15 chrysene

R.T.: 12.600 min
Delta R.T.: 0.000 min
Response: 5145989
Conc: 52.87 µg/ml



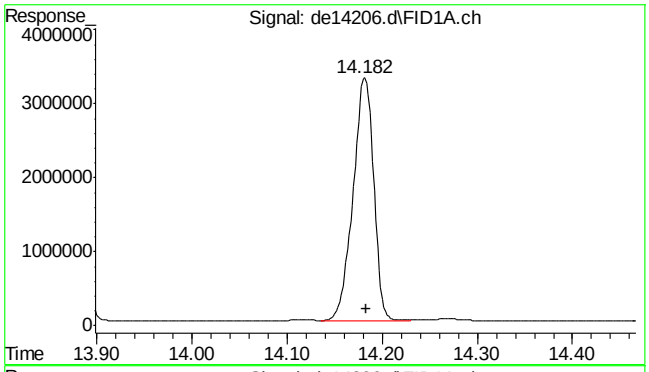
#16 benzo(B)fluoranthene

R.T.: 13.850 min
Delta R.T.: 0.002 min
Response: 4999564
Conc: 50.50 µg/ml



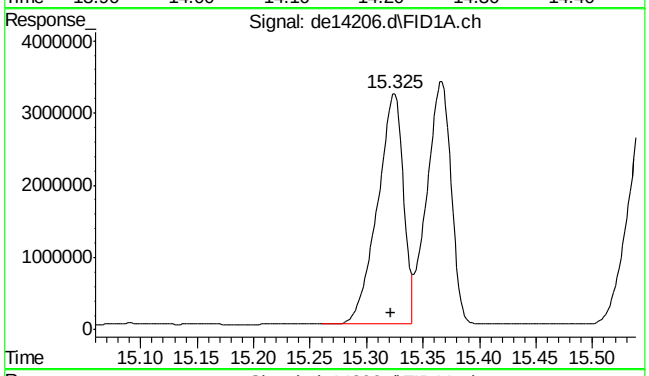
#17 benzo(k)fluoranthene

R.T.: 13.878 min
Delta R.T.: 0.000 min
Response: 5376649
Conc: 56.89 µg/ml



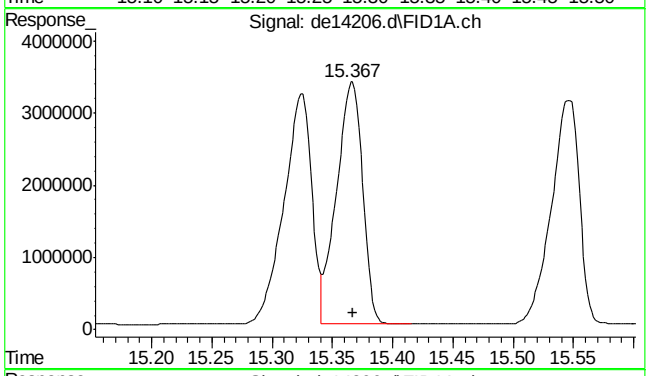
#18 benzo(a)pyrene

R.T.: 14.182 min
Delta R.T.: -0.002 min
Response: 4947921
Conc: 53.53 µg/ml



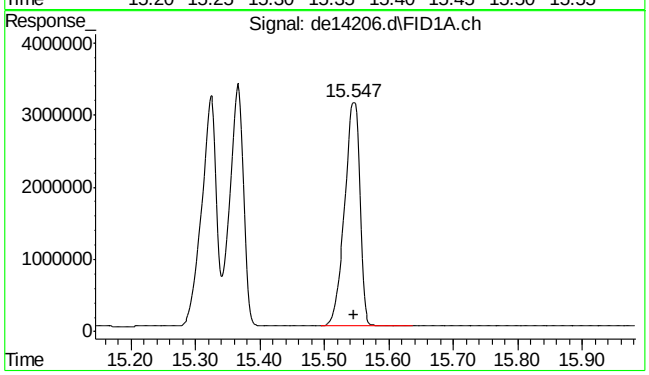
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.325 min
Delta R.T.: 0.003 min
Response: 5150496
Conc: 54.41 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.367 min
Delta R.T.: 0.000 min
Response: 5040681
Conc: 55.15 µg/ml



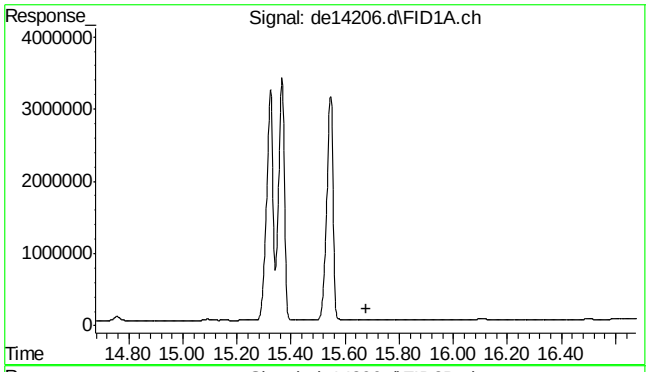
#21 benzo(ghi)perylene

R.T.: 15.547 min
Delta R.T.: 0.000 min
Response: 5068014
Conc: 55.01 µg/ml

9.4.10

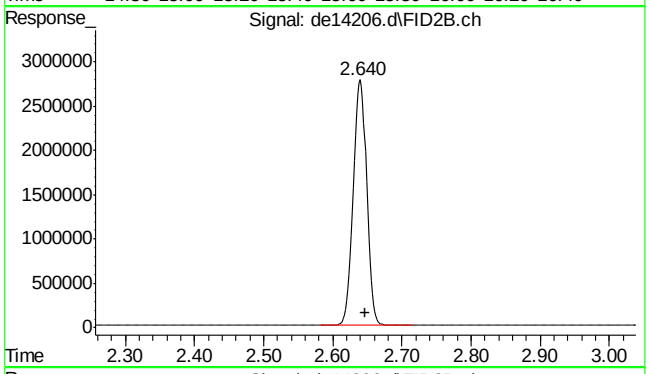
9

SGS ACCUTEST MC45969



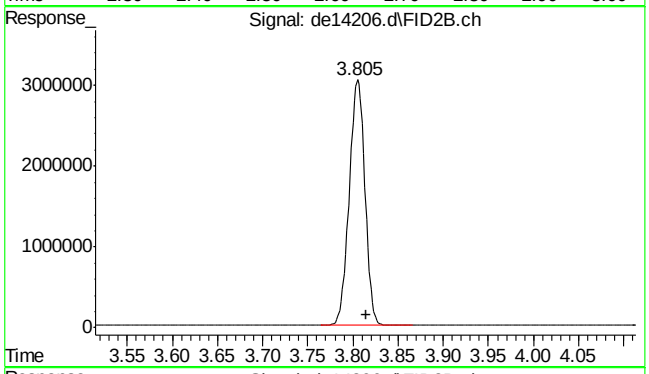
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



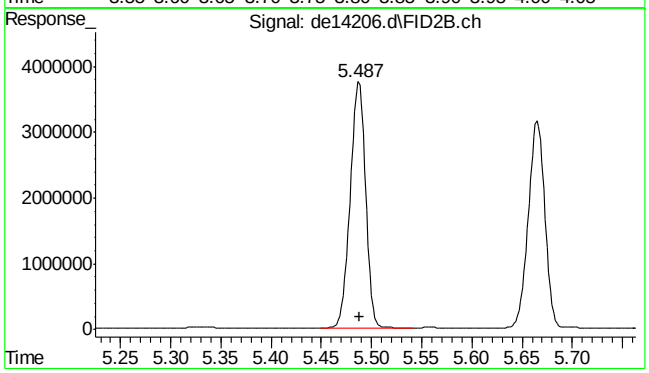
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3641184
Conc: 49.29 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3695978
Conc: 50.03 µg/ml



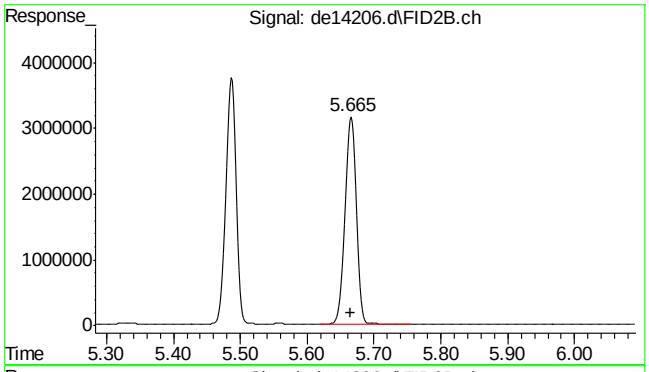
#27 naphthalene #2

R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 3955496
Conc: 49.52 µg/ml

9.4.10

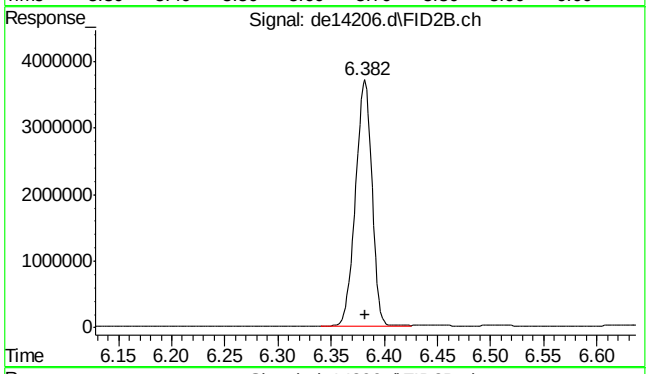
9

SGS ACCUTEST MC45969



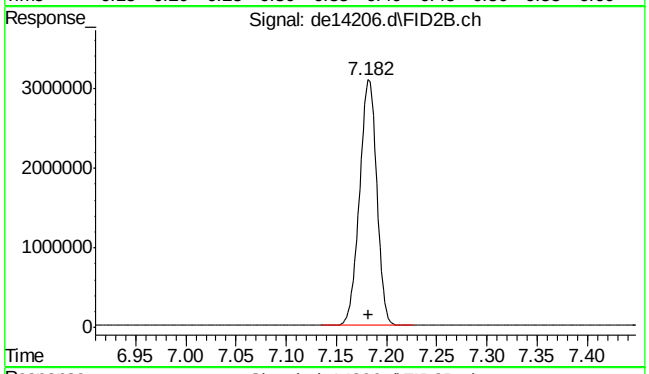
#28 c-12

R.T.: 5.665 min
Delta R.T.: 0.000 min
Response: 3675448
Conc: 49.75 µg/ml



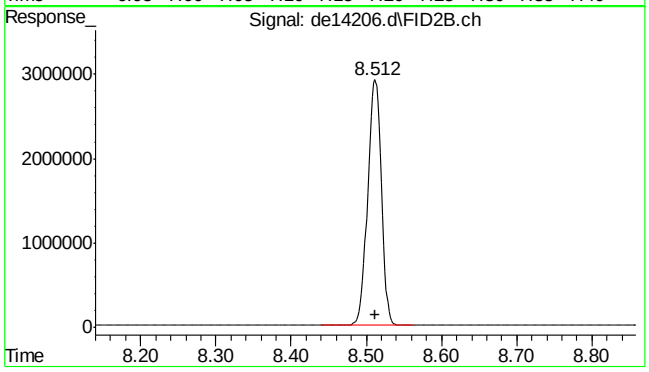
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 3957701
Conc: 49.12 µg/ml



#30 c-14

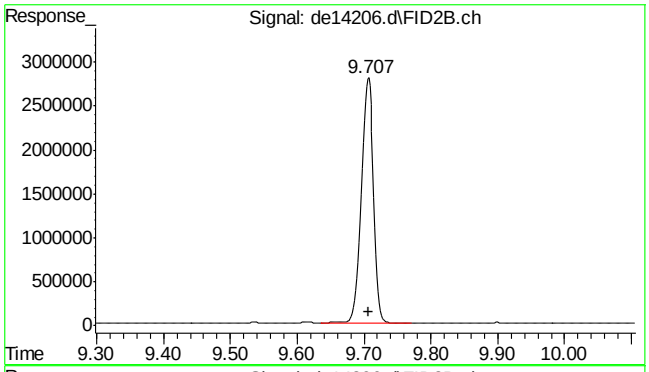
R.T.: 7.182 min
Delta R.T.: 0.000 min
Response: 3661899
Conc: 49.57 µg/ml



#31 c-16

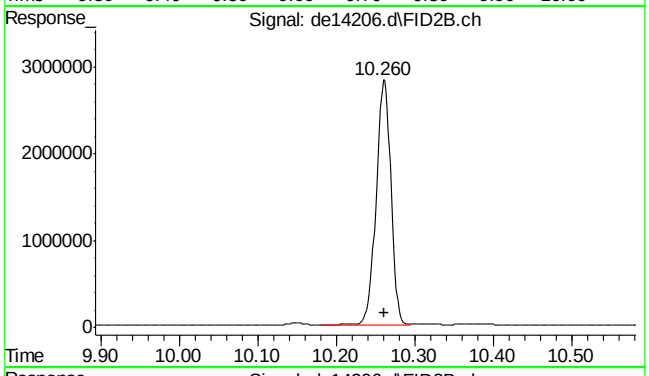
R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3660204
Conc: 49.55 µg/ml

SGS ACCUTEST MC45969



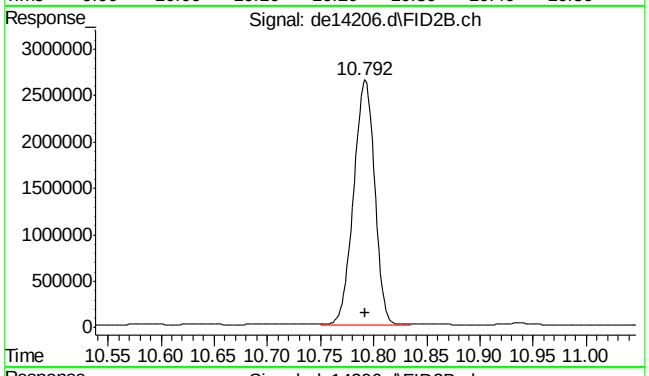
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3685845
Conc: 49.89 µg/ml



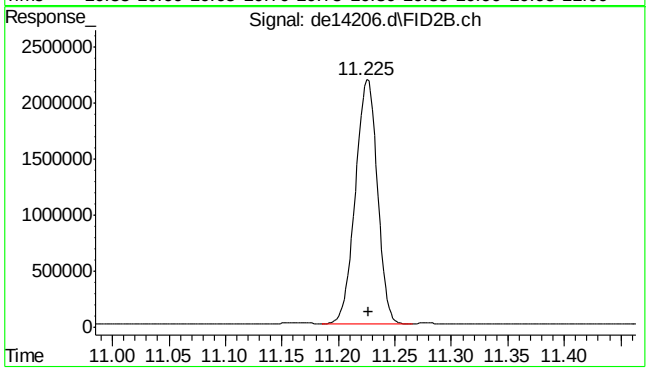
#33 c-19

R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 3676886
Conc: 55.04 µg/ml



#34 c-20

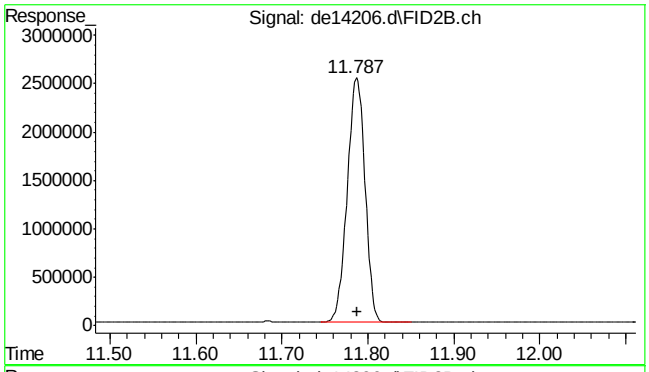
R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3621408
Conc: 54.21 µg/ml



#35 1-chlorooctadecane

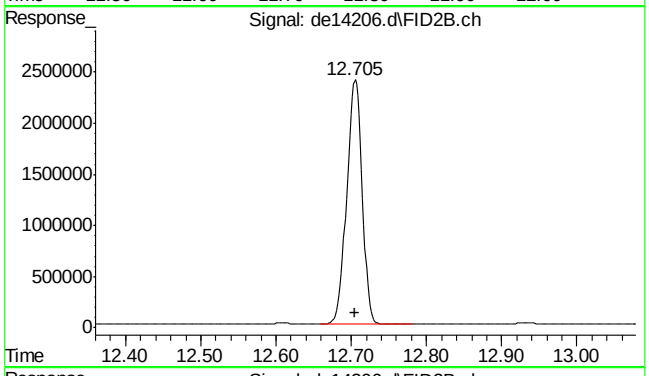
R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 2940275
Conc: 51.97 µg/ml

SGS ACCUTEST MC45969



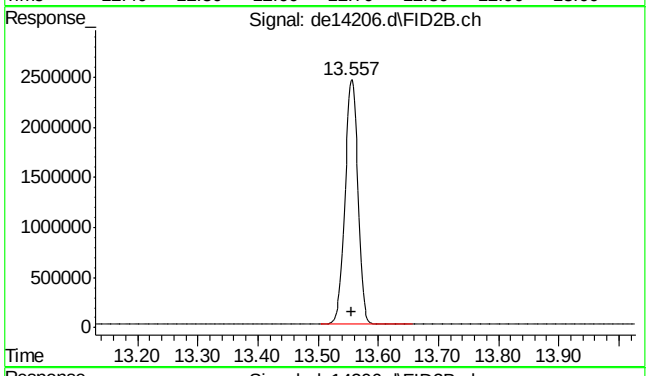
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 3616802
Conc: 54.14 µg/ml



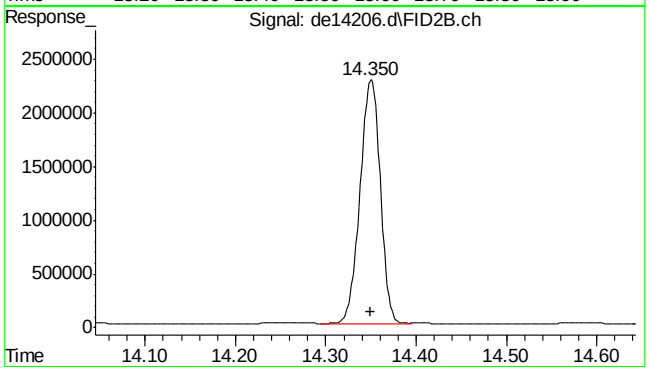
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3400692
Conc: 50.90 µg/ml



#38 c-26

R.T.: 13.557 min
Delta R.T.: 0.002 min
Response: 3632612
Conc: 54.38 µg/ml



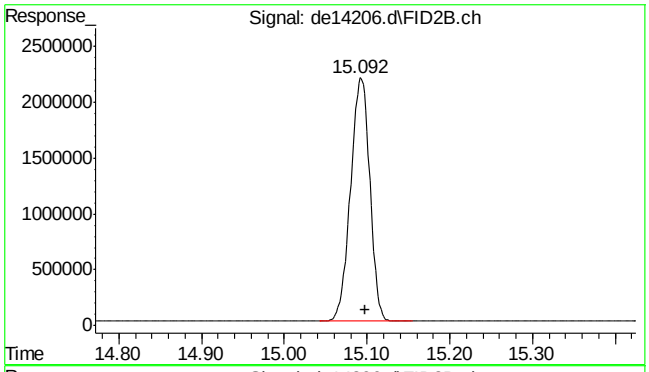
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3554858
Conc: 53.21 µg/ml

9.4.10

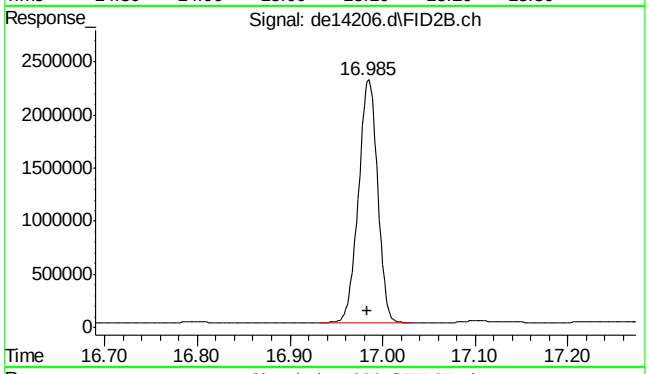
9

SGS ACCUTEST MC45969



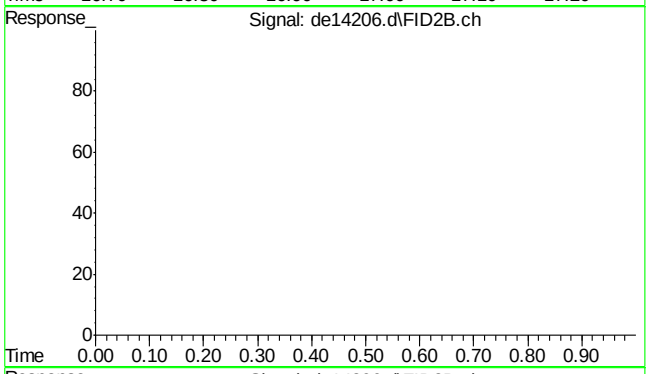
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3534620
Conc: 52.91 µg/ml m



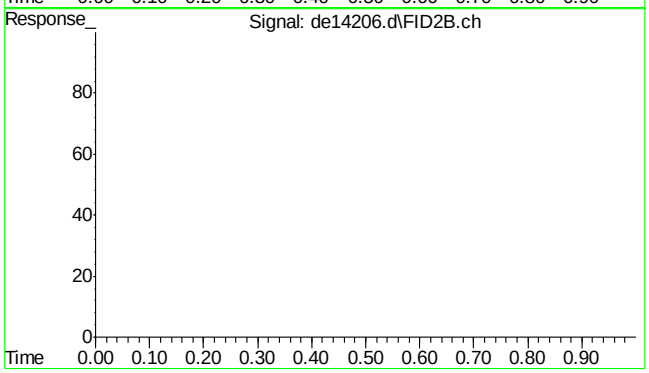
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3277131
Conc: 49.05 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



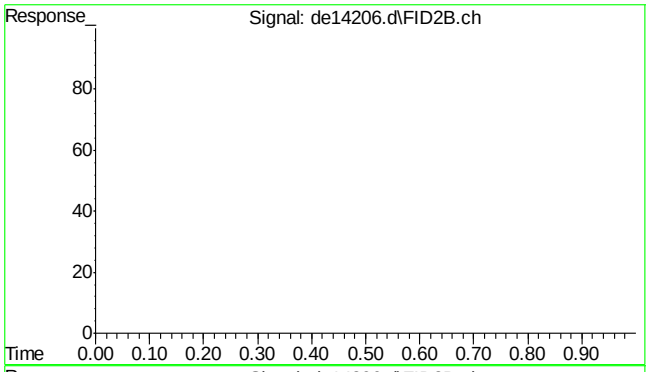
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.10

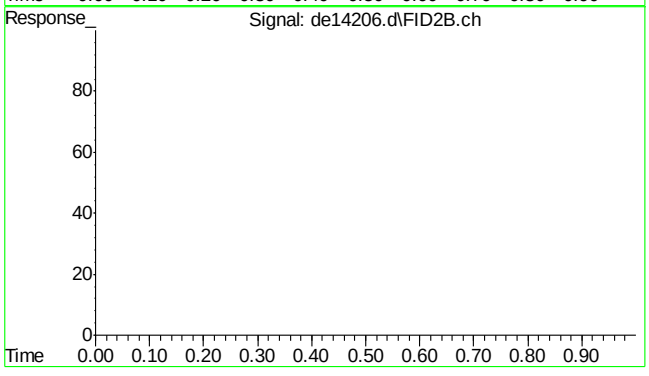
9

SGS ACCUTEST MC45969



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.10

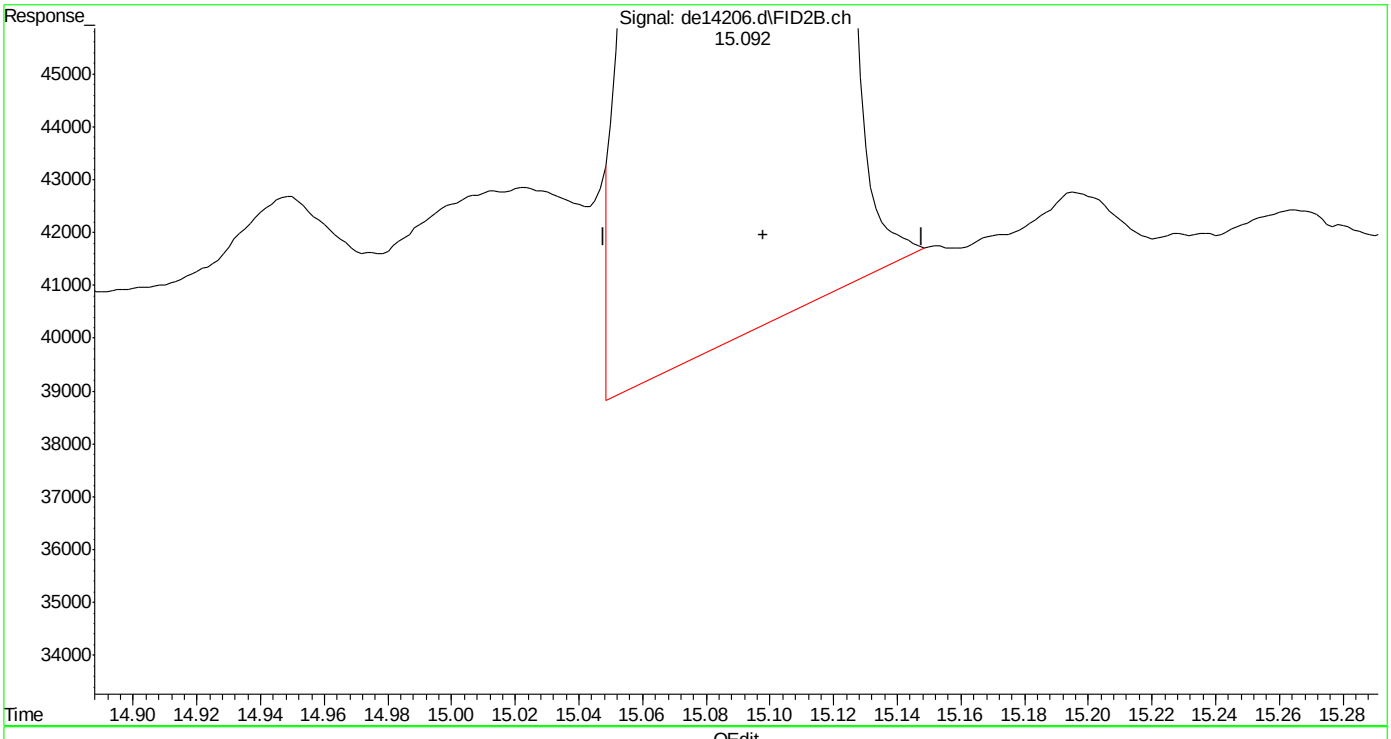
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14206.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 2:26 pm
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 53.020 µg/ml
response 3542086

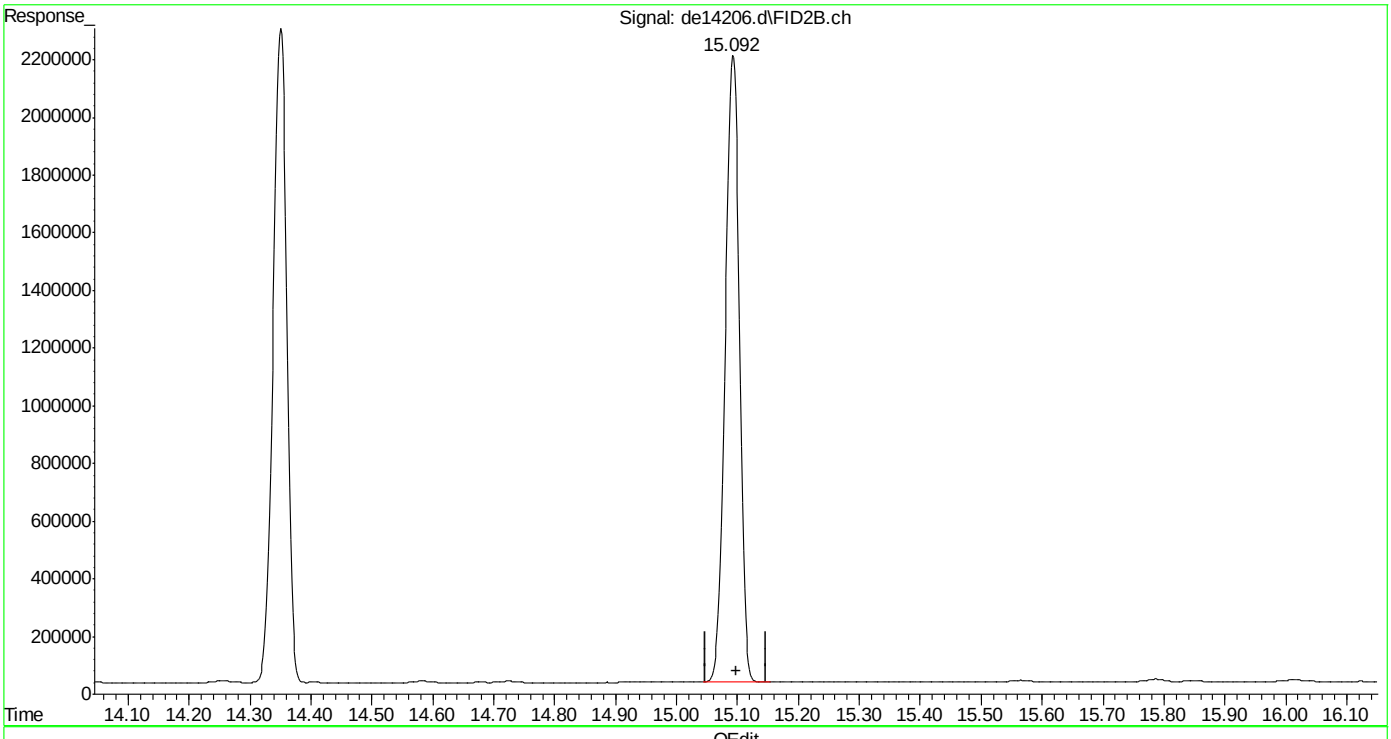
(+) = Expected Retention Time
EPH160521W.M Mon May 23 07:50:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160521EPH\
Data File : de14206.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 21 May 2016 2:26 pm
Operator : thomasa
Sample : cc735-50,gde794
Misc : op47537,gde794,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 07:08:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160521W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.098min 52.908 µg/ml m
response 3534620

(+) = Expected Retention Time
EPH160521W.M Mon May 23 07:50:10 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)~~ TR ~~(EPH160205W.M)~~ EPH160204W.M

Instrument Run Batches: GDE ~~(735)~~ TR 735

Data Acquisition Methods: EPH DCAL W Inj. Vol: 1ml

Inj. Vol:

Date of ICAL: ICAL Verified Sample positions verified against sequence:

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments	
TR ~~(1+1)~~ 1/2	DE13190	Primo	N/A	EPH	N/A	N/A	AI:	ARO
1/2	91	IC735-1					G518066	G518059
3/4	92	-2					65	58
5/6	93	-5					64	57
7/8	94	-20					63	56
9/10	95	ICC735-50					62	55
11/12	96	IC735-100					61	54
13/14	97	-200					60	53
15/16	DE 13198	ICV735-50					ICV: GOOD	ARO G518052 AI: G518009

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

Review:

GC011-01
Date: 02/26/07

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de13198.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	icv735-50

Name	Amount	Response
c-9	49.68	3669865
c-10	49.84	3682081
c-12	49.07	3625160
c-14	48.80	3605226
c-16	47.90	3538485
c-18	47.31	3494684
c-19	51.26	3424371
c-20	50.76	3390870
c-22	49.93	3335369
c-24	49.04	3275936
c-26	48.67	3251556
c-28	47.96	3204302
c-30	47.06	3143578
c-36	43.91	2933493

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	72052	73872	**2.50**	**In Criteria**
C19-C36	64899	66806	**2.90**	**In Criteria**

c28/c20 Percentage: 94.50

1-chlorooctadecane	52.48	2968966
naphthalene #2	50.53	4035939
2-methylnaphthalene	49.08	3954192

SGS ACCUTEST MC45969

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: 5-21-16 **Analyst Signature:** MD

Standard Data

Lot #	Description	Conc
GS18062	Al. CCV	50 ug/mL
GS18055	Aro CCV	50 ug/mL

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160521 EPH.S
Quantitation Methods: EPH 160521 W.M

Instrument Run Batches: GDE794

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	DE14194	Prime	MA	MA EPH	MA	MA	
141/142	95	cc735-50					ok
1/2	96	OP47537-BS	OP47537		W		
3/4	97	-BSD					
5/6	98	-MB					
7/8	99	MC45969-1A					
9/10	DE14200	-2A					
11/12	01	-3A					
13/14	02	MC45945-1A					
15/16	03	MC45893-1					
17/18	04	-2					
19/20	05	-3					
141/142	06	cc735-50	MA		MA		ok
21/22	07	MC45893-4	OP47537		W		
23/24	08	-5					
25/26	09	-6					
141/142	10	cc735-50	MA		MA		ok

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: MA Lot#: MA

GC014-01
Date: 9/15/10

Review:

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14195.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde794

Name	Amount	Response
c-9	52.00	3841390
c-10	52.59	3884834
c-12	52.09	3847998
c-14	51.55	3807968
c-16	51.10	3774924
c-18	51.27	3787280
c-19	56.30	3761466
c-20	55.25	3690795
c-22	55.00	3674073
c-24	51.47	3438269
c-26	54.72	3655428
c-28	52.83	3529075
c-30	52.68	3519046
c-36	47.85	3196867

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	76481	73872	**3.47**	**In Criteria**
C19-C36	71163	66806	**6.31**	**In Criteria**

c28/c20 Percentage: 95.62

1-chlorooctadecane	52.80	2987037
naphthalene #2	51.86	4141960
2-methylnaphthalene	51.30	4132998

9.5.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14206.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde794

Name	Amount	Response
c-9	49.29	3641184
c-10	50.03	3695978
c-12	49.75	3675448
c-14	49.57	3661899
c-16	49.55	3660204
c-18	49.89	3685845
c-19	55.04	3676886
c-20	54.21	3621408
c-22	54.14	3616802
c-24	50.90	3400692
c-26	54.38	3632612
c-28	53.21	3554858
c-30	52.91	3534620
c-36	49.05	3277131

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	73402	73872	**0.64**	**In Criteria**
C19-C36	70788	66806	**5.79**	**In Criteria**
c28/c20 Percentage:			98.16	

1-chlorooctadecane	51.97	2940275
naphthalene #2	49.52	3955496
2-methylnaphthalene	49.12	3957701

9.5.2

9

SGS ACCUTEST MC45969

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14210.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50,gde794

Name	Amount	Response
c-9	49.68	3669770
c-10	50.36	3719985
c-12	50.06	3698268
c-14	49.84	3681561
c-16	49.74	3674680
c-18	50.05	3697127
c-19	55.09	3680226
c-20	54.28	3626094
c-22	54.18	3619382
c-24	50.92	3401652
c-26	54.31	3628521
c-28	52.76	3524401
c-30	52.87	3532053
c-36	49.24	3289849

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	73805	73872	**0.09**	**In Criteria**
C19-C36	70755	66806	**5.74**	**In Criteria**
c28/c20 Percentage:			97.20	

1-chlorooctadecane	52.01	2942634
naphthalene #2	49.82	3979322
2-methylnaphthalene	49.38	3978623

9.5.2

9

SGS ACCUTEST MC45969

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47537-bs

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.61	50	62.43	
2-methylnaphthalene		15.84	50	63.35	
2-fluorobiphenyl	s	15.19	40	75.95	
acenaphthylene		16.47	50	65.87	
2-bromonaphthalene	s	14.15	40	70.74	
acenaphthene		18.41	50	73.64	
fluorene		17.69	50	70.77	
phenanthrene		17.87	50	71.48	
anthracene		20.54	50	82.16	
o-terphenyl	s	17.60	40	88.01	
fluoranthene		20.61	50	82.43	
pyrene		20.48	50	81.93	
benzo(a)anthracene		21.63	50	86.51	
chrysene		21.51	50	86.03	
benzo(B)fluoranthene		19.88	50	79.51	
benzo(k)fluoranthene		23.68	50	94.70	
benzo(a)pyrene		22.29	50	89.16	
indeno(1,2,3-cd)pyrene		22.13	50	88.53	
dibenzo(ah)anthracene		22.84	50	91.36	
benzo(ghi)perylene		22.99	50	91.98	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.64	50	62.55	
c-10		18.09	50	72.35	
c-12		19.14	50	76.57	
c-14		19.82	50	79.28	
c-16		20.52	50	82.07	
c-18		21.99	50	87.96	
c-19		24.87	50	99.48	
c-20		25.48	50	101.91	
1-chlorooctadecane	s	15.22	40	76.08	
c-22		25.51	50	102.05	
c-24		25.22	50	100.89	
c-26		24.66	50	98.65	
c-28		24.33	50	97.31	
c-30		24.44	50	97.75	
c-36		25.63	50	102.54	

Recovery C9-C18
76.80

Recovery C19-C36
100.07

naphthalene #2	0.06	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.41	0.34

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47537-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		13.10	50	52.40	
2-methylnaphthalene		13.75	50	55.02	
2-fluorobiphenyl	s	14.20	40	71.00	
acenaphthylene		15.05	50	60.21	
2-bromonaphthalene	s	13.92	40	69.62	
acenaphthene		16.92	50	67.68	
fluorene		16.76	50	67.03	
phenanthrene		17.74	50	70.95	
anthracene		20.32	50	81.27	
o-terphenyl	s	17.43	40	87.15	
fluoranthene		21.34	50	85.37	
pyrene		21.39	50	85.54	
benzo(a)anthracene		24.14	50	96.57	
chrysene		24.07	50	96.27	
benzo(B)fluoranthene		25.43	50	101.73	
benzo(k)fluoranthene		24.92	50	99.70	
benzo(a)pyrene		25.79	50	103.17	
indeno(1,2,3-cd)pyrene		25.72	50	102.90	
dibenzo(ah)anthracene		25.47	50	101.89	
benzo(ghi)perylene		26.13	50	104.51	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.08	50	60.31	
c-10		17.45	50	69.80	
c-12		18.71	50	74.85	
c-14		19.05	50	76.22	
c-16		19.62	50	78.47	
c-18		20.84	50	83.36	
c-19		23.40	50	93.58	
c-20		23.89	50	95.56	
1-chlorooctadecane	s	15.38	40	76.92	
c-22		24.01	50	96.05	
c-24		23.59	50	94.38	
c-26		23.05	50	92.18	
c-28		22.72	50	90.89	
c-30		22.67	50	90.69	
c-36		23.28	50	93.11	

Recovery C9-C18
73.83

Recovery C19-C36
93.31

naphthalene #2	0.07	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.05	0.52	0.38

SGS ACCUTEST

Extraction Log - Aqueous

Analysis Method: 8MAEPH, 8MAEPHR

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
FNE	007725	40	1mL

Witness Initials: MC

Supervisor Approval:

Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
OP47537 MB	N/A	2	N/A		1000	2.0	
BS							
BSD							
MS							
MSD							
1 MC45893-1	6	2	N/A		880	2.0	
2 2	5				860		
3 3	6				930		
4 4	6				920		
5 5	6				840		
6 6	6				910		
7 MC45945-1A	1				880		
8 MC45969-1A	5	2	N/A	GW	890		TACK 5/18/16 21:00 IC
9 -2A	5				890		
10 -3A	5				865		
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Comments:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

BATCH # OP47537	INITIALS	DATE	TIME
Extracted by:	SM	9/17/16	15:05
Spike Witness:	MC		
Concentrated by:	PA	05/20/16	
Fractionated by:		Volume (ml):	125
Received by:		5/21/16	

Tray # W-5

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)	—	—	—
Waterbath Temp °C	88032	75/80	
NEVAP (32-38 °C)			
Chiller	32	13	
Balance		N/A	N/A

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/		Fisher	
ACETONE		Fisher	
1:1 METH CHLOR/		Fisher	
ACETONE		Fisher	
HEXANE Only	162040	Fisher	
ETHER		Fisher	
ACETONITRILE		Fisher	
ACETONE		Fisher	
DCM	162342	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	3062595	Restek
SILICA GEL		
SODIUM SULFATE	D-020	Fisher
FILTER PAPER	968841	
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		

Filtered by: Init./Date:

SGS ACCUTEST - MARLBOROUGH
Form: OP018-02
Rev Date: 2/23/16