Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 15, 2006

Ben Hung
Anchor Environmental
6650 SW Redwood Lane, #110
Portland, OR 97224

RE: Client Project: 050332-01
ARI Job No. JT82

Dear Ben:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Problems associated with these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Client Service Manager
sue@arilabs.com
206/695-6207

Enclosures

cc: eFile JT82

SD/sdrd

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

Sue Dunnihoo

From: Elizabeth Appy [eappy@anchorenv.com]
Sent: Tuesday, August 15, 2006 5:15 PM
To: Sue Dunnihoo
Cc: Todd Thornburg; Ben Hung; Michelle McClelland
Subject: Additional T4 samples (Port of Portland)

Hi Sue,

Based on the initial T4 results we would like to have the following samples run for the same analyses originally specified on the COCs (Conventionals--TOC, total solids; grain size; lead; zinc; TPH; and PAHs):

1. T4-S3-01-J
2. T4-S3-01-K
3. T4-S3-02-G
4. T4-S3-02-H
5. T4-S3-02-J
6. T4-S3-02-K

We would also like to have the following samples run for Lead, Zinc, and Grain Size only:

1. T4-S3-03-E
2. T4-S3-03-F
3. T4-S3-03-G

Let me know if you have any questions.

Elizabeth

Elizabeth Appy
Anchor Environmental, LLC
6650 SW Redwood Lane, Ste. 110
Portland, OR 97224
Office Line: 503-670-1108 X22
cell phone: 503-460-7504
FAX: 503-670-1128
www.anchorenv.com

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Sue Dunnihoo

From: Ben Hung [bhung@anchorenv.com]
Sent: Friday, August 25, 2006 11:04 AM
To: Sue Dunnihoo
Cc: Todd Thornburg; Michelle McClelland; Elizabeth Appy; Susan Snyder; Kelly Titkemeier
Subject: RE: Additional T4 samples (Port of Portland)

Sue,

We just noticed that T4-S3-03-K requested by Elizabeth had a field dup associated with it. Not sure if the dup was included in the run. We will need the dup analyzed as well. Let me know if you have questions.

Thanks,

Ben Hung
Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
503.670.1108 x21 (V)
503.670.1128 (F)
608.556.3994 (C)
bhung@anchorenv.com
http://www.anchorenv.com

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From: Sue Dunnihoo [mailto:sue@arilabs.com]
Sent: Wednesday, August 23, 2006 4:04 PM
To: Ben Hung
Cc: Todd Thornburg; Michelle McClelland; Elizabeth Appy; Susan Snyder; John Verduin
Subject: RE: Additional T4 samples (Port of Portland)

When you ask for SVOC, I will assume both phthalates and PAH unless you specify.

Thanks! - S

Susan D. Dunnihoo
206-695-6207

-----Original Message-----
From: Ben Hung [mailto:bhung@anchorenv.com]
Sent: Wednesday, August 23, 2006 12:49 PM
To: Sue Dunnihoo
Cc: Todd Thornburg; Michelle McClelland; Elizabeth Appy; Susan Snyder; John Verduin
Subject: Additional T4 samples (Port of Portland)

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 5Q31	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 2 of 15

Date: 7/21/06 | Ice Present? Y/N

No. of Coolers: 1 9 | Cooler Temps: 2.6° 2.8° | 6 | 6 | BOIL CARBOYS

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: SVOCs (8270m)	TOC	NWTPH-Dx	Grainsize	Bio	TCN	ARCHIVE		Notes/Comments
T4-B414-01-A	7-20-06	0826	Sediment	3	X	X	X	X	X	X			
-B					X	X	X	X	X	X			
-C					X	X	X	X	X	X			
-D											X		ARCHIVE (FREEZE)
-E													
-F													
-G													
-H													
-J													
-K													

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: TIM STONE	Printed Name: ANT WYNN	Printed Name:	Printed Name: BOB CONGLETON
	Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
	Date & Time: 7-21-06 / 1200	Date & Time: 7-21-06 / 1200	Date & Time:	Date & Time: 7/21/06 1635

0004

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days	Page: 3 of 15	
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21	Date: 7/21/06	Ice Present? Y/N
Client Contact: BEN HUNG		No. of Coolers: 1	Cooler Temps: 1.5 - 5.8° 7.6 - 2.8°
Client Project Name: T4 EARLY ACTION			
Client Project #: 050332-01	Samplers: BH/EA/KT		

3 of 6 CARBOYS

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: SVOCs (8270m)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	ARCHIVE		Notes/Comments
T4-B414-02-A	7/19	1355	Sediment	3	X	X	X	X	X	X			
-B					↓	↓	↓	↓	↓	↓			
-C					↓	↓	↓	↓	↓	↓			
-D											X		ARCHIVE (FREEZE)
-E											↓		↓
-F													
-G													
-H													
-J													
-K	↓	↓	↓	↓									

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: TIM STONE	Printed Name: [illegible]	Printed Name:	Printed Name: BOB CONGLETON
	Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
	Date & Time: 7-21-06/1200	Date & Time: 7-21-06/1200	Date & Time:	Date & Time: 7/21/06 1635

0005

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 4 of 15

Date: 7/21/06 | Ice Present? Y

No. of Coolers: 19 | Cooler Temps: 1.5 – 5.0 – Soils; 2.6 – 2.8 – CARBOYS

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270m)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	ARCHIVE		Notes/Comments
T4-B414-03-A	7/20	9:03	Sediment	3	X	X	X	X	X	X			
-B	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-C	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-D	↓	↓	↓	↓							X		ARCHIVE (FREEZE)
-E	↓	↓	↓	↓							↓		↓
-F	↓	↓	↓	↓							↓		↓
-G	↓	↓	↓	↓							↓		↓
-H	↓	↓	↓	↓							↓		↓
-J	↓	↓	↓	↓							↓		↓
-K	↓	↓	↓	↓							↓		↓

Comments/Special Instructions

Relinquished by: (Signature) Tim Stone	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature) [signature]
Printed Name: TIM STONE	Printed Name: ANA WYNN	Printed Name:	Printed Name: BOB CONGLETON
Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
Date & Time: 7-21-06 / 1200	Date & Time: 7-21-06 / 1200	Date & Time:	Date & Time: 7/24/06 1635

9000

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days	Page: 5 of 15	
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108x21	Date: 7/21/06	Ice Present? Y
Client Contact: BEN HUNG		No. of Coolers: 1 9	Cooler Temps: 1.5-5.5° Soils 2.6-2.8° CARBOYS
Client Project Name: T4 EARLY ACTION			
Client Project #: 050332-01	Samplers: BH/EA/KT		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	Archive (Freeze)		Notes/Comments
T4-B414-04-A	7/20	7:28	Sediment	3	X	X	X	X	X	X			
-B					↓	↓	↓	↓	↓	↓			
-C					↓	↓	↓	↓	↓	↓			
-D											X		ARCHIVE (FREEZE)
-E											↓		↓
-F													
-G													
-H													
-J													
-K	↓	↓	↓	↓									

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: TOM STONE	Printed Name: ART WYNN	Printed Name:	Printed Name: BOB CONCETON
	Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
	Date & Time: 7-21-06/1200	Date & Time: 7-21-06/1200	Date & Time:	Date & Time: 7/21/06 1635

0007

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 6 of 15

Date: 7/21/06 Ice Present? Y

No. of Coolers: 19 Cooler Temps: 1.5-5.0° - Soils; 26-28° - Carboys

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	Archive (Freeze)		Notes/Comments
T4-53-01 - A	7/18	1500	Sediment	3							X		Archive (Freeze)
- B	↓	↓	↓								X		
- C	↓	↓	↓								X		
- D	↓	↓	↓		X	X	X	X	X	X			
- E	↓	↓	↓		↓	↓	↓	↓	↓	↓			
- F	↓	↓	↓		↓	↓	↓	↓	↓	↓			
- G	↓	↓	↓		↓	↓	↓	↓	↓	↓			
- H	↓	↓	↓		↓	↓	↓	↓	↓	↓			
- J	↓	↓	↓								X		
- K	↓	↓	↓								X		

Comments/Special Instructions

Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature) BoC Congleton
Printed Name: ~~ANCHOR ENVTS~~ TIM STONE	Printed Name: Art Wynn	Printed Name:	Printed Name: BOB Congleton
Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
Date & Time: 7-21-06 / 1200	Date & Time: 7-21-06 / 1200	Date & Time:	Date & Time: 7/21/06

8000

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JQ32	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 7 of 15

Date: 7/21/06 | Ice Present? Y

No. of Coolers: 19 | Cooler Temps: 1.5-5.0 – Soils; 26-28 – Carboys

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCS (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	ARCHIVE (FREEZE)		Notes/Comments
T4-53-02-A	7/18	16:27	Sediment	3							X		
-B											X		ARCHIVE = FREEZE
-C					X	X	X	X	X	X	~~X~~ EA		
-D													
-E													
-F													
-G											X		
~~-H~~											~~X~~		
-J											X		
-K											X		

Comments/Special Instructions

Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature) [signature]
Printed Name: TIM STONE	Printed Name: Art Wynn	Printed Name:	Printed Name: BOB CONGLETON
Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
Date & Time: 7-21-06/1200	Date & Time: 7-21-06/1200	Date & Time:	Date & Time: 7/21/06 1635

6000

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JQ32	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 8 of 15

Date: 7/21/06 Ice Present? Y

No. of Coolers: 19 Cooler Temps: 1.5-5.0 — Soils; 26°-28° — Carboys

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	ARCHIVE (FREEZE)		Notes/Comments
T4-S3-03-A	7/19	858	Sediment	3							X		
-B					X	X	X	X	X	X			ARCHIVE =
-C													FREEZE
-D													
-E											X		
-F													
-G													
-H													
-J													
-K													

Comments/Special Instructions

Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature) Bob Congleton
Printed Name: Tim STONE	Printed Name: Art Wyman	Printed Name:	Printed Name: BOB CONGLETON
Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
Date & Time: 7-21-06/1200	Date & Time: 7-21-06/1200	Date & Time:	Date & Time: 7/21/06 1635

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0010

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days	Page: 9 of 15	
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108x21	Date: 7/21/06	Ice Present? Y
Client Contact: BEN HUNG		No. of Coolers: 1 9	Cooler Temps: 2.6 - 5.0 - 2.3 - 2.5 - 2.0 - 2.5 CORBOYS
Client Project Name: T4 EARLY ACTION			
Client Project #: 050332-01	Samplers: BH/EA/KT		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	Archive (Freeze)		Notes/Comments
T4-53-08-A	7/19	1505	Sediment	3							X		
-B					X	X	X	X	X	X			Archive = Freeze
-C					↓	↓	↓	↓	↓	↓			
-D											X		
-E													
-F													
-G													
-H													
-J													
-K	↓	↓	↓	↓							↓		

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: TIM STONE	Printed Name: AM Wynn	Printed Name:	Printed Name: BOB CONCETON
	Company: ANCHOR ENV.	Company: SENV04	Company:	Company: ARI
	Date & Time: 7-21-06 / 1200	Date & Time: 7-21-06 / 1200	Date & Time:	Date & Time: 7/21/06 1635

0011

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 10 of 15

Date: 7/21/06 | Ice Present? Y

No. of Coolers: 19 | Cooler Temps: 1.5 – 5.0° — SOILS; 2.6 – 2.8 — CARBOYS

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	ARCHIVE (FREEZE)		Notes/Comments
T4-S3-05-A	7/19	10:06	Sediment	3							X		
-B	↓	↓	↓	↓							↓		
-C	↓	↓	↓	↓							↓		ARCHIVE =
-D	↓	↓	↓	↓							↓		FREEZE
-E	↓	↓	↓	↓	X	X	X	X	X	X			
-F	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-G	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-H	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-J	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-K	↓	↓	↓	↓							X		

Comments/Special Instructions

Relinquished by: (Signature) Tim Stone	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature) Bob Congleton
Printed Name: TIM STONE	Printed Name: Art Wynn	Printed Name:	Printed Name: BOB CONGLETON
Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
Date & Time: 7-21-06 / 1200	Date & Time: 7-21-06 / 1200	Date & Time:	Date & Time: 7/21/06 1635

0012

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 1 of 5

Date: 7/21/06 | Ice Present? Y

No. of Coolers: 1 9 | Cooler Temps: 1.5 - 5.0 — SOILS; 2.6 - 2.8 — CARBOYS

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270m)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	Archive (Freeze)		Notes/Comments
T4-S3-06-A	7/20	1217	Sediment	3	X	X	X	X	X	X			
-B					X	X	X	X	X	X			ARCHIVE = FREEZE
-C											X		
-D													
-E													
-F													
-G													
-H													
-J													
-K													

Comments/Special Instructions: Can't FIND (A) ANY COOLERS

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Printed Name: Tim STONE	Printed Name: Art Wynn	Printed Name:	Printed Name: BOB CONGLETON
Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
Date & Time: 7-21-06/1200	Date & Time: 7-21-06/1200	Date & Time:	Date & Time: 7/21/06 1635

0013

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Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

ARI Assigned Number: JQ37
Turn-around Requested: 15 business days
Page: 12 of 15
ARI Client Company: ANCHOR ENVIRONMENTAL
Phone: 503-670-1108 x21
Date: 7/21/06
Ice Present? Y
Client Contact: BEN HUNG
No. of Coolers: 19
Cooler Temps: 1.5-5.0° — Soils; 2.6-2.8 — CARBOYS
Client Project Name: T4 EARLY ACTION
Client Project #: 050332-01
Samplers: BH/EA/KT

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	ARCHIVE (FREEZE)		Notes/Comments
T4-S3-07-A	7/20	1330	Sediment	3							X		
-B	↓	↓	↓	↓	X	X	X	X	X	X			
-C	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			ARCHIVE =
-D	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			FREEZE
-E	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-F	↓	↓	↓	↓							X		
-G	↓	↓	↓	↓							↓		
-H	↓	↓	↓	↓							↓		
-J	↓	↓	↓	↓							↓		
-K	↓	↓	↓	↓							↓		

Comments/Special Instructions

Relinquished by: (Signature) Tim Stone	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature) Bob Congleton
Printed Name: TIM STONE	Printed Name: Art Wynn	Printed Name:	Printed Name: BOB CONGLETON
Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
Date & Time: 7-21-06 / 1200	Date & Time: 7-21-06 / 1200	Date & Time:	Date & Time: 7/21/06 1635

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

0014

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: | Turn-around Requested: 15 business days | Page: 13 of 15

ARI Client Company: ANCHOR ENVIRONMENTAL | Phone: 503-670-1108 x21 | Date: 7/21/06 | Ice Present? Y

Client Contact: BEN HUNG | No. of Coolers: 1 9 | Cooler Temps: 1.5 - 5.0° Soils, 2.0 - 2.8 CARBOYS

Client Project Name: T4 EARLY ACTION

Client Project #: 050332-01 | Samplers: BH/EA/KT

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: SVOCs (8270M)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	Archive (freeze)		Notes/Comments
T4-53-04-A	7/20	1426	Sediment	3	X	X	X	X	X	X			
-B					↓	↓	↓	↓	↓	↓			
-C													ARCHIVE = FREEZE
-D													
-E											X		
-F											↓		
-G													
-H													
-J													→ Not here
-K	↓	↓	↓	↓									↓

Comments/Special Instructions

	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	Tim Stone			Bob Congleton
Printed Name:	TIM STONE	ANN WYNN		BOB CONGLETON
Company:	ANCHOR ENV.	SENVOY		ARI
Date & Time:	7-21-06/1200	7-21-06/1200		7/21/06 1635

0015

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 15 business days
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone: 503-670-1108 x21
Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 14 of 15

Date: 7/21/06 Ice Present? Y

No. of Coolers: 1 9 Cooler Temps: 1.5 - 5.0 - Soils, 2.6 - 2.8 - Carboys

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	SVOCs (8270m)	TOC	NWTPH-Dx	Grainsize	Pb	Zn	Archive (freeze)		Notes/Comments
T4-S3-02-F-DUP	7/18	1627	Sediment	3 (2)	X	X	X	X	X	X			
T4-S3-03-C-DUP	7/19	858	↓	↓	X	X	X	X	X	X			
T4-B414-02-A-DUP	7/19	1355			X	X	X	X	X	X			
T4-S3-02-K-DUP	7/18	1627									X		Sent w/ Analysis
T4-S3-03-H-DUP	7/19	858									X		MS/MSD

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
9100	Printed Name: TIM STONE	Printed Name:	Printed Name:	Printed Name: BOB CONGLETON
	Company: ANCHOR ENV.	Company: SENVOY	Company:	Company: ARI
	Date & Time: 7-21-06/1200	Date & Time: 7-21-06/1200	Date & Time:	Date & Time: 7/21/06 1636

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ent: Anchor — Project Name: T4 EARLY ACTION

O.: 050332-01 — Delivered By: COURIER

ng NO.: _____ — Date: 7-21-06

o No.: JQ31, JQ32, JQ37 — Lims NO.: JQ37

inary Examination Phase: 9 COOLERS W/CARBOYS; 26°-28° each

1. Were intact, properly signed and dated custody seals attached
   To the outside of the cooler? ..... ~~YES~~ ~~NO~~
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... OK (NA)

r Accepted BY: Bob Compton — Date: 7/21/06 — Time: 1635

N Phase: 4 BUCKETS; AMBIENT

5. Was a temperature blank include in the cooler? ~~YES~~ ..... YES (NO)
6. Record Cooler Temperature 1.5, 3.5, 2, 1.5, 5, 3, 1.6, 2, 2, 1.6 °C — 10 COOLERS 50.L
7. What kind of packing material was used? ..... ICE
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
0. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
1. Were all bottle labels complete and legible? ..... (YES) NO
2. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
3. Were all bottles used correct for the requested analyses? ..... (YES) NO
4. Do any of the analyses (bottles) require preservative?
   (If so, Preservation checklist must be attached) ..... ~~YES~~ ~~NO~~
5. Were all VOA vials free of air bubbles? ..... ~~YES~~ ~~NO~~
6. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
7. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Opened By: Bob — Date: 7/21/06 — Time 1635

any discrepancies or negative responses:

A- CARBOY COOLERS IN CONVENTIONAL WALK IN.

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative

Client: Anchor Environmental
Project: 050332-01 T4 Early Action
Matrix: Sediment
ARI Job Nos. JT82

Sample receipt

Nine sediment samples were received July 21, 2006 as part of a much larger shipment. Samples were well iced and the ten cooler temperatures measured by IR thermometer following ARI SOP were 1.5-5.5° C for chemistry samples, which is within recommended limits. Samples were received in good condition with no discrepancies in paperwork, and a large number of the samples were placed on hold.

On August 15th ARI was instructed to analyze nine samples, several for the full list of analyses per the original COC, and three for metals and Grainsize only. Samples containers for chemistry analysis were maintained in frozen archive until two days before sample extraction to preserve holding time. On August 25th, the sample **T4-S3-02-K-DUP** was added to the list of samples to be analyzed. Due to a miscommunication in sample receiving, **T4-S3-02-K-DUP** is reported here and **T4-S3-02-K** is reported under Job JU43.

Samples were analyzed by both full-scan GC/MS for phthalates and selected ion monitoring for PAH for consistency with the first analytical sets.

Due to an omission, analyses for TPH-Dx are not included under this Job number.

Semivolatiles by SW8270C

Sediment samples were initially screened to determine if a response was present that would affect sample analysis. Only sample **T4-S3-02-H** was extracted at a lesser sample amount. Also, due to expected matrix issues with samples based on evaluation of the screens, it was determined that all samples should go through GPC cleanup.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limit with the exception of Bis-2-ethylhexylphthalate. All associated samples have been 'B'-flagged.

The LCS had recoveries within limits for target compounds.

Surrogates recoveries were within ARI control limits.

The MS/MSD had recovery and RPDs within limits.

There were no other incidents of note.

Semivolatiles by 8270C-Selected Ion Monitoring (SIM)

Sediment samples were initially screened to determine if a response was present that would affect sample analysis. Only sample **T4-S3-02-H** was extracted at a lesser sample amount.

Samples were extracted and analyzed within recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limit and LCS recoveries were within ARI limits.

Surrogates recoveries were within ARI control limits.

Internal standard areas were within limits.

The MS/MSD had recoveries and RPDs within limits.

Some samples required analysis at dilution due to analytes above the calibrated range of the instrument. Both sets of data have been included here.

There were no other incidents of note.

Total Metals

The samples were digested and analyzed within holding times.

The method blank was clean at the reporting limit with the exception of a small amount of Zinc. No further corrective action was taken as sample amount were much higher than the blank concentration.

LCS recoveries were within limits.

The duplicate RPDs were outside limits. Digests were rerun to confirm and the difference is attributed to sample homogeneity.

Matrix spike recoveries were within limits with the exception of Zinc. Digests were rerun to confirm. The outlier was attributed to the high concentration in the parent sample and no further action was taken.

General Chemistry Parameters

Total Organic Carbon

Samples were prepared and analyzed within the required holding time.

The method blanks were clean and the LCS samples had recoveries within limits.

Replicates had acceptable RPD and the Matrix Spike had acceptable recoveries.

Standard reference recoveries were within limits.

Geotechnical Parameters

A geotechnical narrative follows this page.

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

SEMIVOLATILE ORGANICS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-01-J**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 20:20
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 33.1%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	99	< 99 U
84-66-2	Diethylphthalate	99	< 99 U
84-74-2	Di-n-Butylphthalate	99	< 99 U
85-68-7	Butylbenzylphthalate	99	< 99 U
117-81-7	bis(2-Ethylhexyl)phthalate	99	< 99 U
117-84-0	Di-n-Octyl phthalate	99	< 99 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	45.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-01-K**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82B
LIMS ID: 06-15216
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 20:54
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 31.3%
pH: 6.2

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	57.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-02-G
SAMPLE

Lab Sample ID: JT82C
LIMS ID: 06-15217
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 21:26
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 37.3%
pH: 6.8

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**110 B**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	42.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-J**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82D
LIMS ID: 06-15218
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 21:59
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 25.4%
pH: 6.5

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	56.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-K-DUP**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 22:32
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	62.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-H**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82I
LIMS ID: 06-15223
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/06/06 00:11
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 34.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 32.0%
pH: 6.9

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	29	< 29 U
84-66-2	Diethylphthalate	29	< 29 U
84-74-2	Di-n-Butylphthalate	29	< 29 U
85-68-7	Butylbenzylphthalate	29	< 29 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**29**	**32 B**
117-84-0	Di-n-Octyl phthalate	29	< 29 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	55.6%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01

Client ID	TPH	TOT OUT
T4-S3-01-J	45.8%	0
T4-S3-01-K	57.2%	0
T4-S3-02-G	42.4%	0
T4-S3-02-J	56.0%	0
MB-090406	84.0%	0
LCS-090406	63.2%	0
T4-S3-02-K-DUP	62.4%	0
T4-S3-02-K-DUP MS	55.2%	0
T4-S3-02-K-DUP MSD	58.8%	0
T4-S3-02-H	55.6%	0

	LCS/MB LIMITS	QC LIMITS
(TPH) = d14-p-Terphenyl	(37-114)	(12-120)

Prep Method: SW3550B
Log Number Range: 06-15215 to 06-15223

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-K-DUP**
Page 1 of 1 **MS/MSD**

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted MS/MSD: 09/04/06

Sample Amount MS: 51.3 g-dry-wt
MSD: 50.8 g-dry-wt

Date Analyzed MS: 09/05/06 23:05
MSD: 09/05/06 23:38

Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL

Instrument/Analyst MS: NT4/LJR
MSD: NT4/LJR

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: YES

Percent Moisture: 22.1%
pH: 6.7

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Di-n-Octyl phthalate	< 19.6	286	487	58.7%	311	492	63.2%	8.4%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-K-DUP**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 23:05
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	55.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-K-DUP**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 23:38
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	58.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: LCS-090406**
Page 1 of 1 **LAB CONTROL**

Lab Sample ID: LCS-090406
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 15:57
Instrument/Analyst: NT4/LJR
GPC Cleanup: YES

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

Analyte	Lab Control	Spike Added	Recovery
Dimethylphthalate	346	500	69.2%
Diethylphthalate	359	500	71.8%
Di-n-Butylphthalate	390	500	78.0%
Butylbenzylphthalate	366	500	73.2%
bis(2-Ethylhexyl)phthalate	371	500	74.2%
Di-n-Octyl phthalate	355	500	71.0%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	63.2%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JT82MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Lab File ID: JT82MB Date Extracted: 09/04/06

Instrument ID: NT4 Date Analyzed: 09/05/06

Matrix: SOLID Time Analyzed: 1524

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JT82LCSS1	JT82LCSS1	JT82SB	09/05/06
02	T4-S3-01-J	JT82A	JT82A	09/05/06
03	T4-S3-01-K	JT82B	JT82B	09/05/06
04	T4-S3-02-G	JT82C	JT82C	09/05/06
05	T4-S3-02-J	JT82D	JT82D	09/05/06
06	T4-S3-02-K-DUP	JT82E	JT82E	09/05/06
07	T4-S3-02-K-DUP M	JT82EMS	JT82EMS	09/05/06
08	T4-S3-02-K-DUP M	JT82EMSD	JT82EMD	09/05/06
09	T4-S3-02-H	JT82I	JT82I	09/06/06
10				
11				
12				
13				
14				
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16				
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30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: MB-090406**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-090406
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 15:24
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	**Di-n-Butylphthalate**	**20**	**13 J**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**17 J**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	84.0%

SIM SEMIVOLATILES

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-01-J**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 21:52
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 33.1%
pH: 6.4

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	25	280	
91-57-6	2-Methylnaphthalene	25	160	
90-12-0	1-Methylnaphthalene	25	70	
208-96-8	Acenaphthylene	25	25	
83-32-9	Acenaphthene	25	2,100	
86-73-7	Fluorene	25	810	
85-01-8	Phenanthrene	25	6,400	E
120-12-7	Anthracene	25	1,900	
206-44-0	Fluoranthene	25	10,000	E
129-00-0	Pyrene	25	11,000	E
56-55-3	Benzo(a)anthracene	25	8,600	E
218-01-9	Chrysene	25	10,000	E
205-99-2	Benzo(b)fluoranthene	25	14,000	E
207-08-9	Benzo(k)fluoranthene	25	11,000	E
50-32-8	Benzo(a)pyrene	25	12,000	E
193-39-5	Indeno(1,2,3-cd)pyrene	25	3,600	E
53-70-3	Dibenz(a,h)anthracene	25	1,400	
191-24-2	Benzo(g,h,i)perylene	25	3,600	E
198-55-0	Perylene	25	3,600	E
92-52-4	Biphenyl	25	35	
581-42-0	2,6-Dimethylnaphthalene	25	58	
832-69-9	1-Methylphenanthrene	25	520	
192-97-2	Benzo(e)pyrene	25	7,500	E
2245-38-7	2,3,5-Trimethylnaphthalene	25	52	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	57.2%
d14-Dibenzo(a,h)anthracen	52.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-01-J**
Page 1 of 1 **DILUTION**

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 09/01/06 11:54
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 33.1%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**250**	**280**
91-57-6	2-Methylnaphthalene	250	< 250 U
90-12-0	1-Methylnaphthalene	250	< 250 U
208-96-8	Acenaphthylene	250	< 250 U
83-32-9	**Acenaphthene**	**250**	**2,200**
86-73-7	**Fluorene**	**250**	**820**
85-01-8	**Phenanthrene**	**250**	**7,700**
120-12-7	**Anthracene**	**250**	**1,900**
206-44-0	**Fluoranthene**	**250**	**15,000**
129-00-0	**Pyrene**	**250**	**14,000**
56-55-3	**Benzo(a)anthracene**	**250**	**9,400**
218-01-9	**Chrysene**	**250**	**11,000**
205-99-2	**Benzo(b)fluoranthene**	**250**	**11,000**
207-08-9	**Benzo(k)fluoranthene**	**250**	**10,000**
50-32-8	**Benzo(a)pyrene**	**250**	**12,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**250**	**6,800**
53-70-3	**Dibenz(a,h)anthracene**	**250**	**2,400**
191-24-2	**Benzo(g,h,i)perylene**	**250**	**8,000**
198-55-0	**Perylene**	**250**	**3,600**
92-52-4	Biphenyl	250	< 250 U
581-42-0	2,6-Dimethylnaphthalene	250	< 250 U
832-69-9	**1-Methylphenanthrene**	**250**	**520**
192-97-2	**Benzo(e)pyrene**	**250**	**6,800**
2245-38-7	2,3,5-Trimethylnaphthalene	250	< 250 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracen	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-01-K**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82B
LIMS ID: 06-15216
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 13:02
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.3%
pH: 6.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	< 4.8 U
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	Acenaphthylene	4.8	< 4.8 U
83-32-9	**Acenaphthene**	**4.8**	**13**
86-73-7	**Fluorene**	**4.8**	**6.8**
85-01-8	**Phenanthrene**	**4.8**	**49**
120-12-7	**Anthracene**	**4.8**	**9.2**
206-44-0	**Fluoranthene**	**4.8**	**76**
129-00-0	**Pyrene**	**4.8**	**77**
56-55-3	**Benzo(a)anthracene**	**4.8**	**51**
218-01-9	**Chrysene**	**4.8**	**63**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**62**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**53**
50-32-8	**Benzo(a)pyrene**	**4.8**	**61**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**36**
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**13**
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**43**
198-55-0	**Perylene**	**4.9**	**370**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.8	< 4.8 U
832-69-9	**1-Methylphenanthrene**	**4.8**	**4.8**
192-97-2	**Benzo(e)pyrene**	**4.8**	**38**
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracen	76.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-G**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82C
LIMS ID: 06-15217
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 13:27
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 2.00
Percent Moisture: 37.3%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	9.9	48	
91-57-6	**2-Methylnaphthalene**	9.9	25	
90-12-0	**1-Methylnaphthalene**	9.9	15	
208-96-8	**Acenaphthylene**	9.9	36	
83-32-9	**Acenaphthene**	9.9	150	
86-73-7	**Fluorene**	9.9	76	
85-01-8	**Phenanthrene**	9.9	660	
120-12-7	**Anthracene**	9.9	120	
206-44-0	**Fluoranthene**	9.9	1,000	E
129-00-0	**Pyrene**	9.9	1,200	E
56-55-3	**Benzo(a)anthracene**	9.9	500	
218-01-9	**Chrysene**	9.9	680	
205-99-2	**Benzo(b)fluoranthene**	9.9	560	
207-08-9	**Benzo(k)fluoranthene**	9.9	520	
50-32-8	**Benzo(a)pyrene**	9.9	590	
193-39-5	**Indeno(1,2,3-cd)pyrene**	9.9	340	
53-70-3	**Dibenz(a,h)anthracene**	9.9	98	
191-24-2	**Benzo(g,h,i)perylene**	9.9	410	
198-55-0	**Perylene**	9.9	340	
92-52-4	Biphenyl	9.9	< 9.9	Y
581-42-0	**2,6-Dimethylnaphthalene**	9.9	52	
832-69-9	1-Methylphenanthrene	50	< 50	Y
192-97-2	**Benzo(e)pyrene**	9.9	390	
2245-38-7	**2,3,5-Trimethylnaphthalene**	9.9	140	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.1%
d14-Dibenzo(a,h)anthracen	67.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-G**
Page 1 of 1 **DILUTION**

Lab Sample ID: JT82C
LIMS ID: 06-15217
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 09/01/06 12:19
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 37.3%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**50**	**50**
91-57-6	2-Methylnaphthalene	50	< 50 U
90-12-0	1-Methylnaphthalene	50	< 50 U
208-96-8	Acenaphthylene	50	< 50 U
83-32-9	**Acenaphthene**	**50**	**170**
86-73-7	**Fluorene**	**50**	**74**
85-01-8	**Phenanthrene**	**50**	**710**
120-12-7	**Anthracene**	**50**	**130**
206-44-0	**Fluoranthene**	**50**	**1,100**
129-00-0	**Pyrene**	**50**	**1,400**
56-55-3	**Benzo(a)anthracene**	**50**	**550**
218-01-9	**Chrysene**	**50**	**730**
205-99-2	**Benzo(b)fluoranthene**	**50**	**550**
207-08-9	**Benzo(k)fluoranthene**	**50**	**500**
50-32-8	**Benzo(a)pyrene**	**50**	**590**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**50**	**370**
53-70-3	**Dibenz(a,h)anthracene**	**50**	**100**
191-24-2	**Benzo(g,h,i)perylene**	**50**	**470**
198-55-0	**Perylene**	**50**	**330**
92-52-4	Biphenyl	50	< 50 U
581-42-0	**2,6-Dimethylnaphthalene**	**50**	**54**
832-69-9	1-Methylphenanthrene	99	< 99 Y
192-97-2	**Benzo(e)pyrene**	**50**	**390**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**50**	**120**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.3%
d14-Dibenzo(a,h)anthracen	65.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-J**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82D
LIMS ID: 06-15218
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 19:49
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.4%
pH: 6.5

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**5.0**	**24**
91-57-6	**2-Methylnaphthalene**	**5.0**	**9.9**
90-12-0	**1-Methylnaphthalene**	**5.0**	**6.9**
208-96-8	**Acenaphthylene**	**5.0**	**17**
83-32-9	**Acenaphthene**	**5.0**	**45**
86-73-7	**Fluorene**	**5.0**	**19**
85-01-8	**Phenanthrene**	**5.0**	**210**
120-12-7	**Anthracene**	**5.0**	**40**
206-44-0	**Fluoranthene**	**5.0**	**270**
129-00-0	**Pyrene**	**5.0**	**410**
56-55-3	**Benzo(a)anthracene**	**5.0**	**110**
218-01-9	**Chrysene**	**5.0**	**160**
205-99-2	**Benzo(b)fluoranthene**	**5.0**	**120**
207-08-9	**Benzo(k)fluoranthene**	**5.0**	**130**
50-32-8	**Benzo(a)pyrene**	**5.0**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.0**	**42**
53-70-3	**Dibenz(a,h)anthracene**	**5.0**	**11**
191-24-2	**Benzo(g,h,i)perylene**	**5.0**	**46**
198-55-0	**Perylene**	**5.0**	**97**
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	**2,6-Dimethylnaphthalene**	**5.0**	**21**
832-69-9	1-Methylphenanthrene	33	< 33 Y
192-97-2	**Benzo(e)pyrene**	**5.0**	**88**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**5.0**	**54**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracen	38.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-02-K-DUP
SAMPLE

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 20:13
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**4.9**
91-57-6	2-Methylnaphthalene	4.9	< 4.9 U
90-12-0	1-Methylnaphthalene	4.9	< 4.9 U
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	**Acenaphthene**	**4.9**	**9.3**
86-73-7	Fluorene	4.9	< 4.9 U
85-01-8	**Phenanthrene**	**4.9**	**30**
120-12-7	**Anthracene**	**4.9**	**4.9**
206-44-0	**Fluoranthene**	**4.9**	**39**
129-00-0	**Pyrene**	**4.9**	**65**
56-55-3	**Benzo(a)anthracene**	**4.9**	**19**
218-01-9	**Chrysene**	**4.9**	**30**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**26**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**29**
50-32-8	**Benzo(a)pyrene**	**4.9**	**29**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**9.3**
53-70-3	Dibenz(a,h)anthracene	4.9	< 4.9 U
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**13**
198-55-0	**Perylene**	**4.9**	**46**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	< 4.9 U
832-69-9	1-Methylphenanthrene	4.9	< 4.9 Y
192-97-2	**Benzo(e)pyrene**	**4.9**	**19**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**4.9**	**8.8**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracen	45.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-H**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82I
LIMS ID: 06-15223
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 21:27
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 1.36 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 32.0%
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**37**	**55**
91-57-6	**2-Methylnaphthalene**	**37**	**37**
90-12-0	1-Methylnaphthalene	37	< 37 U
208-96-8	Acenaphthylene	37	< 37 U
83-32-9	**Acenaphthene**	**37**	**96**
86-73-7	**Fluorene**	**37**	**59**
85-01-8	**Phenanthrene**	**37**	**560**
120-12-7	**Anthracene**	**37**	**110**
206-44-0	**Fluoranthene**	**37**	**930**
129-00-0	**Pyrene**	**37**	**1,200**
56-55-3	**Benzo(a)anthracene**	**37**	**460**
218-01-9	**Chrysene**	**37**	**650**
205-99-2	**Benzo(b)fluoranthene**	**37**	**590**
207-08-9	**Benzo(k)fluoranthene**	**37**	**610**
50-32-8	**Benzo(a)pyrene**	**37**	**550**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**37**	**180**
53-70-3	**Dibenz(a,h)anthracene**	**37**	**77**
191-24-2	**Benzo(g,h,i)perylene**	**37**	**210**
198-55-0	**Perylene**	**37**	**260**
92-52-4	Biphenyl	37	< 37 U
581-42-0	**2,6-Dimethylnaphthalene**	**37**	**48**
832-69-9	1-Methylphenanthrene	81	< 81 Y
192-97-2	**Benzo(e)pyrene**	**37**	**380**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**37**	**92**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	75.7%
d14-Dibenzo(a,h)anthracen	50.0%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01

Client ID	MNP	DBA	TOT OUT
T4-S3-01-J	57.2%	52.8%	0
T4-S3-01-J DL	D	D	0
T4-S3-01-K	62.3%	76.7%	0
T4-S3-02-G	62.1%	67.3%	0
T4-S3-02-G DL	58.3%	65.7%	0
T4-S3-02-J	70.7%	38.3%	0
MB-082506	83.0%	91.7%	0
LCS-082506	74.3%	89.3%	0
T4-S3-02-K-DUP	70.0%	45.3%	0
T4-S3-02-H	75.7%	50.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-94)	(32-97)
(DBA) = d14-Dibenzo(a,h)anthracene	(27-116)	(21-105)

Prep Method: SW3550B
Log Number Range: 06-15215 to 06-15223

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LCS-082506
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082506
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/25/06
Date Analyzed LCS: 08/31/06 12:37
Instrument/Analyst LCS: FINN3/VTS

Sample Amount LCS: 10.0 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	106	150	70.7%
1-Methylnaphthalene	96.0	150	64.0%
Acenaphthylene	108	150	72.0%
Acenaphthene	112	150	74.7%
Fluorene	114	150	76.0%
Phenanthrene	133	150	88.7%
Anthracene	128	150	85.3%
Fluoranthene	120	150	80.0%
Pyrene	147	150	98.0%
Benzo(a)anthracene	134	150	89.3%
Chrysene	142	150	94.7%
Benzo(b)fluoranthene	142	150	94.7%
Benzo(k)fluoranthene	136	150	90.7%
Benzo(a)pyrene	124	150	82.7%
Indeno(1,2,3-cd)pyrene	122	150	81.3%
Dibenz(a,h)anthracene	128	150	85.3%
Benzo(g,h,i)perylene	135	150	90.0%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	74.3%
d14-Dibenzo(a,h)anthracen	89.3%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JT82MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Lab File ID: JT82MB Date Extracted: 08/25/06

Instrument ID: NT1 Date Analyzed: 08/31/06

Matrix: SOLID Time Analyzed: 1212

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JT82LCSS1	JT82LCSS1	JT82SB	08/31/06
02	T4-S3-01-K	JT82B	JT82B	08/31/06
03	T4-S3-02-G	JT82C	JT82C	08/31/06
04	T4-S3-02-J	JT82D	JT82D	08/31/06
05	T4-S3-02-K-DUP	JT82E	JT82E	08/31/06
06	T4-S3-02-H	JT82I	JT82I	08/31/06
07	T4-S3-01-J	JT82A	JT82A	08/31/06
08	T4-S3-01-J	JT82ADL	JT82ADL	09/01/06
09	T4-S3-02-G	JT82CDL	JT82CDL	09/01/06
10				
11				
12				
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30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MB-082506
METHOD BLANK

Lab Sample ID: MB-082506
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 12:12
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
198-55-0	Perylene	5.0	< 5.0 U
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	< 5.0 U
832-69-9	1-Methylphenanthrene	5.0	< 5.0 U
192-97-2	Benzo(e)pyrene	5.0	< 5.0 U
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.0%
d14-Dibenzo(a,h)anthracen	91.7%

TOTAL METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-J
SAMPLE

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 66.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/28/06	**7439-92-1**	**Lead**	7	238	
3050B	08/24/06	6010B	08/28/06	**7440-66-6**	**Zinc**	2	333	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-J
DUPLICATE

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Lead	6010B	238	128	60.1%	+/- 20%	*
Zinc	6010B	333	178	60.7%	+/- 20%	*

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-J
MATRIX SPIKE

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Lead	6010B	238	589	282	124%	
Zinc	6010B	333	426	70.4	132%	H

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-S3-01-K
SAMPLE

Lab Sample ID: JT82B
LIMS ID: 06-15216
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 66.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	**7439-92-1**	**Lead**	3	**42**	
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	0.9	**68.6**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-G
SAMPLE

Lab Sample ID: JT82C
LIMS ID: 06-15217
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 60.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	**7439-92-1**	**Lead**	3	**901**	
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	1	**878**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-J
SAMPLE

Lab Sample ID: JT82D
LIMS ID: 06-15218
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 72.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	**7439-92-1**	**Lead**	3	**127**	
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	0.8	**164**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-K-DUP
SAMPLE

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 78.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	**7439-92-1**	**Lead**	3	**16**	
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	0.8	**67.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-S3-03-E
SAMPLE

Lab Sample ID: JT82F
LIMS ID: 06-15220
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 78.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/28/06	**7439-92-1**	**Lead**	6	**217**	
3050B	08/24/06	6010B	08/28/06	**7440-66-6**	**Zinc**	2	**280**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-03-F
SAMPLE

Lab Sample ID: JT82G
LIMS ID: 06-15221
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 81.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	**7439-92-1**	**Lead**	2	**66**	
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	0.7	**111**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-03-G
SAMPLE

Lab Sample ID: JT82H
LIMS ID: 06-15222
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 72.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	**7439-92-1**	**Lead**	3	**131**	
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	0.8	**178**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-S3-02-H
SAMPLE

Lab Sample ID: JT82I
LIMS ID: 06-15223
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 68.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	**7439-92-1**	**Lead**	3	**723**	
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	0.8	**701**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: JT82LCS
LIMS ID: 06-15216
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Lead	6010B	215	200	108%	
Zinc	6010B	54.0	50.0	108%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: JT82MB
LIMS ID: 06-15216
Matrix: Sediment
Data Release Authorized:
Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	2	2	U
3050B	08/24/06	6010B	08/24/06	**7440-66-6**	**Zinc**	0.6	**1.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-J
ARI ID: 06-15215 JT82A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#1	EPA 160.3	Percent	0.01	64.90
Total Organic Carbon	08/23/06 082306#1	Plumb,1981	Percent	0.020	1.04

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-K
ARI ID: 06-15216 JT82B

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#1	EPA 160.3	Percent	0.01	67.70
Total Organic Carbon	08/24/06 082406#1	Plumb,1981	Percent	0.020	0.312

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-G
ARI ID: 06-15217 JT82C

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#1	EPA 160.3	Percent	0.01	61.60
Total Organic Carbon	08/23/06 082306#1	Plumb,1981	Percent	0.020	1.09

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-J
ARI ID: 06-15218 JT82D

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#2	EPA 160.3	Percent	0.01	74.30
Total Organic Carbon	08/23/06 082306#1	Plumb,1981	Percent	0.020	0.775

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-K-DUP
ARI ID: 06-15219 JT82E

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#2	EPA 160.3	Percent	0.01	80.70
Total Organic Carbon	08/23/06 082306#1	Plumb,1981	Percent	0.020	0.495

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-H
ARI ID: 06-15223 JT82I

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#2	EPA 160.3	Percent	0.01	69.10
Total Organic Carbon	08/23/06 082306#1	Plumb,1981	Percent	0.020	1.46

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/21/06	Percent	< 0.01 U
	08/21/06		< 0.01 U
Total Organic Carbon	08/23/06	Percent	< 0.020 U
	08/24/06		< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/23/06	Percent	0.493	0.500	98.6%
	08/24/06		0.509	0.500	101.8%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	08/23/06	Percent	3.24	3.35	96.7%
NIST #8704	08/24/06		3.06	3.35	91.3%

REPLICATE RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: JT82A Client ID: T4-S3-01-J					
Total Solids	08/21/06	Percent	64.90	65.60 65.80	0.7%
Total Organic Carbon	08/23/06	Percent	1.04	1.02 0.967	3.7%

MS/MSD RESULTS-CONVENTIONALS
JT82-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: JT82A Client ID: T4-S3-01-J						
Total Organic Carbon	08/23/06	Percent	1.04	1.79	0.931	80.6%

GRAINSIZE

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T-4 Early Action 050332-01

Percent Finer (Passing) Than the Indicated Size

Sieve Size (microns)	2"	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1.3
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.3	96.6	89.6	80.3	56.2	39.8	32.5	26.0	21.0	17.3	10.8	8.0
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	99.6	99.5	99.1	96.5	89.7	80.6	56.6	39.3	31.9	25.9	20.8	17.8	11.1	7.4
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.8	80.4	58.4	39.5	32.4	26.1	21.3	19.0	11.1	7.1
T4-S3-01-K	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.5	94.8	68.7	41.8	32.4	24.5	19.4	15.1	10.1	7.2
T4-S3-02-G	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	97.2	88.3	83.3	69.0	42.2	34.6	27.7	22.3	16.9	10.8	6.9
T4-S3-02-J	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.2	85.1	44.7	33.6	29.7	19.6	16.1	12.1	10.4	7.5	4.0	2.9
T4-S3-02-K	100.0	100.0	100.0	100.0	100.0	98.4	97.5	95.2	70.1	25.3	13.9	9.9	6.5	5.2	3.9	3.0	2.2	1.3	1.3
T4-S3-03-E	100.0	100.0	100.0	100.0	100.0	99.9	99.9	98.1	77.5	42.8	32.5	25.8	18.2	16.1	11.9	9.1	6.3	3.5	2.1
T4-S3-03-F	100.0	100.0	100.0	100.0	100.0	100.0	99.8	95.7	62.8	21.7	13.6	11.5	8.3	7.4	6.1	4.8	3.5	2.2	1.3
T4-S3-03-G	100.0	100.0	100.0	100.0	100.0	100.0	99.7	95.7	65.0	22.6	14.6	12.8	10.2	9.3	7.5	5.8	4.9	2.7	1.8
T4-S3-02-H	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	87.6	55.9	45.2	36.6	24.9	23.5	19.9	16.3	12.8	8.5	5.7

Testing performed according to ASTM D421/D422

0079

JT82

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T-4 Early Action 050332-01

Percent Retained in Each Size Fraction

Description	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Fine Silt	% Very Fine Silt	% Clay
Particle Size (microns)	> 4750	4750-2000	2000-425	425-75	75-32	32-22	22-13	13-9	9-7	7-3.2	<3.2
T4-S3-01-J	0.0	0.3	3.1	40.5	16.4	7.2	6.5	5.1	3.6	6.5	10.8
T4-S3-01-J	0.4	0.1	3.0	39.9	17.3	7.4	5.9	5.2	3.0	6.7	11.1
T4-S3-01-J	0.0	0.1	2.8	38.7	18.9	7.1	6.3	4.7	2.4	7.9	11.1
T4-S3-01-K	0.0	0.0	0.2	31.2	26.9	9.4	7.9	5.0	4.3	5.0	10.1
T4-S3-02-G	0.0	0.0	2.8	28.2	26.7	7.7	6.9	5.4	5.4	6.1	10.8
T4-S3-02-J	0.0	0.1	14.8	55.4	10.1	3.5	4.0	1.7	2.9	3.5	4.0
T4-S3-02-K	1.6	0.9	27.4	60.2	3.4	1.3	1.3	0.9	0.9	0.9	1.3
T4-S3-03-E	0.1	0.1	22.3	51.7	7.6	2.1	4.2	2.8	2.8	2.8	3.5
T4-S3-03-F	0.0	0.2	37.1	51.3	3.2	0.9	1.3	1.3	1.3	1.3	2.2
T4-S3-03-G	0.0	0.3	34.8	52.2	2.6	0.9	1.8	1.8	0.9	2.2	2.7
T4-S3-02-H	0.0	0.0	12.3	51.0	11.7	1.4	3.6	3.6	3.6	4.3	8.5

0080

JT82

ANALYTICAL RESOURCES INCORPORATED

PROJECT:	Anchor Environmental	Project No.:	T-4 Early Action 050332-01
ARI Triplicate Sample ID:	JT82 A	Batch No.:	JT82 -01
Client Triplicate Sample ID:	T4-S3-01-J	Page:	1 of 1

Relative Standard Deviation, By Size

Sample ID	4750	2000	850	425	250	150	75	32	22	13	9	7	3.2	1.3
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	99.7	99.3	96.6	89.6	80.3	56.2	39.8	32.5	26.0
T4-S3-01-J	100.0	100.0	100.0	100.0	99.6	99.5	99.1	96.5	89.7	80.6	56.6	39.3	31.9	25.9
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.8	80.4	58.4	39.5	32.4	26.1
AVE	100.00	100.00	100.00	100.00	99.87	99.72	99.33	96.73	89.70	80.44	57.05	39.52	32.26	26.01
STDEV	0.00	0.00	0.00	0.00	0.23	0.19	0.21	0.29	0.08	0.11	1.16	0.23	0.34	0.06
%RSD	0.00	0.00	0.00	0.00	0.23	0.19	0.21	0.30	0.09	0.14	2.04	0.58	1.05	0.24

This Triplicate applies to the Batch Containing the Following Samples

Sample ID	Date Sampled	Date Set up	Date Started	Date Complete	Data Qualifiers
T4-S3-01-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-01-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-01-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-01-K	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-G	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-K	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-03-E	7/19/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-03-F	7/19/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-03-G	7/19/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-H	7/18/2006	8/23/2006	8/28/2006	8/30/2006	

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Tia Hawk
Created: 8/21/06

Worklist: 2812
Analyst: TAH
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	JT82A 06-15215 T4-S3-01-J	1.12	13.22	9.22	66.9	6.4
2.	JT82B 06-15216 T4-S3-01-K	1.14	14.44	10.28	68.7	6.2
3.	JT82C 06-15217 T4-S3-02-G	1.14	11.12	7.40	62.7	6.8
4.	JT82D 06-15218 T4-S3-02-J	1.14	14.04	10.76	74.6	6.5
5.	JT82E 06-15219 T4-S3-02-K	1.14	13.54	10.80	77.9	6.7
6.	JT82I 06-15223 T4-S3-02-H	1.14	11.50	8.18	68.0	6.9

Solids Data Entry Report Checked by: DM Date: 8/24/06
Date: 08/23/06 Data Analyst: EJR

Solids Determination performed on 08/22/06 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
JT82	A	T4-S3-01-J	1.023	10.446	7.269	66.28
JT82	B	T4-S3-01-K	0.995	10.349	7.222	66.57
JT82	C	T4-S3-02-G	1.040	10.445	6.704	60.22
JT82	D	T4-S3-02-J	0.962	10.602	7.978	72.78
JT82	E	T4-S3-02-K	1.015	10.255	8.222	78.00
JT82	F	T4-S3-03-E	0.985	10.056	8.069	78.10
JT82	G	T4-S3-03-F	1.003	10.296	8.549	81.20
JT82	H	T4-S3-03-G	0.988	10.672	8.030	72.72
JT82	I	T4-S3-02-H	1.049	10.935	7.850	68.79

Semivolatile Organics
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01

Client ID	TPH	TOT OUT
T4-S3-01-J	45.8%	0
T4-S3-01-K	57.2%	0
T4-S3-02-G	42.4%	0
T4-S3-02-J	56.0%	0
MB-090406	84.0%	0
LCS-090406	63.2%	0
T4-S3-02-K-DUP	62.4%	0
T4-S3-02-K-DUP MS	55.2%	0
T4-S3-02-K-DUP MSD	58.8%	0
T4-S3-02-H	55.6%	0

	LCS/MB LIMITS	QC LIMITS
(TPH) = d14-p-Terphenyl	(37-114)	(12-120)

Prep Method: SW3550B
Log Number Range: 06-15215 to 06-15223

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-02-K-DUP
MS/MSD

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted MS/MSD: 09/04/06

Date Analyzed MS: 09/05/06 23:05
MSD: 09/05/06 23:38
Instrument/Analyst MS: NT4/LJR
MSD: NT4/LJR
GPC Cleanup: YES

Sample Amount MS: 51.3 g-dry-wt
MSD: 50.8 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 22.1%
pH: 6.7

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Di-n-Octyl phthalate	< 19.6	286	487	58.7%	311	492	63.2%	8.4%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: LCS-090406**
Page 1 of 1 **LAB CONTROL**

Lab Sample ID: LCS-090406
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 15:57
Instrument/Analyst: NT4/LJR
GPC Cleanup: YES

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

Analyte	Lab Control	Spike Added	Recovery
Dimethylphthalate	346	500	69.2%
Diethylphthalate	359	500	71.8%
Di-n-Butylphthalate	390	500	78.0%
Butylbenzylphthalate	366	500	73.2%
bis(2-Ethylhexyl)phthalate	371	500	74.2%
Di-n-Octyl phthalate	355	500	71.0%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	63.2%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JT82MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Lab File ID: JT82MB Date Extracted: 09/04/06

Instrument ID: NT4 Date Analyzed: 09/05/06

Matrix: SOLID Time Analyzed: 1524

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JT82LCSS1	JT82LCSS1	JT82SB	09/05/06
02	T4-S3-01-J	JT82A	JT82A	09/05/06
03	T4-S3-01-K	JT82B	JT82B	09/05/06
04	T4-S3-02-G	JT82C	JT82C	09/05/06
05	T4-S3-02-J	JT82D	JT82D	09/05/06
06	T4-S3-02-K-DUP	JT82E	JT82E	09/05/06
07	T4-S3-02-K-DUP M	JT82EMS	JT82EMS	09/05/06
08	T4-S3-02-K-DUP M	JT82EMSD	JT82EMD	09/05/06
09	T4-S3-02-H	JT82I	JT82I	09/06/06
10				
11				
12				
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT4 Project: T-4 EARLY ACTION

DFTPP Injection Date: 08/15/06 DFTPP Injection Time: 0855

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	82.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	61.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 0.75% of mass 198	3.36
441	Present, but less than mass 443	11.6
442	40.0 - 110.0% of mass 198	74.5
443	15.0 - 24.0% of mass 442	14.7 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN 25	ABN 25	0250815	08/15/06	0855
02	ABN 80	ABN 80	0800815	08/15/06	0928
03	ABN1	ABN 1	0010815	08/15/06	1001
04	ABN 40	ABN 40	0400815	08/15/06	1034
05	ABN 5	ABN 5	0050815	08/15/06	1107
06	ABN 10	ABN 10	0100815	08/15/06	1140
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT4 Project: T-4 EARLY ACTION

DFTPP Injection Date: 09/05/06 DFTPP Injection Time: 1442

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	81.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	62.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	23.6
365	Greater than 0.75% of mass 198	3.24
441	Present, but less than mass 443	10.3
442	40.0 - 110.0% of mass 198	64.3
443	15.0 - 24.0% of mass 442	13.0 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0905	09/05/06	1442
02	JT82MBS1	JT82MBS1	JT82MB	09/05/06	1524
03	JT82LCSS1	JT82LCSS1	JT82SB	09/05/06	1557
04	T4-S3-01-J	JT82A	JT82A	09/05/06	2020
05	T4-S3-01-K	JT82B	JT82B	09/05/06	2054
06	T4-S3-02-G	JT82C	JT82C	09/05/06	2126
07	T4-S3-02-J	JT82D	JT82D	09/05/06	2159
08	T4-S3-02-K-DUP	JT82E	JT82E	09/05/06	2232
09	T4-S3-02-K-DUP M	JT82EMS	JT82EMS	09/05/06	2305
10	T4-S3-02-K-DUP M	JT82EMSD	JT82EMD	09/05/06	2338
11	T4-S3-02-H	JT82I	JT82I	09/06/06	0011
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Cont. Calib. ID: CC0905 Date Analyzed: 09/05/06

Instrument ID: NT4 Time Analyzed: 1442

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	148470		7.54		567893		9.57		303756		12.40	
	UPPER LIMIT	296940		8.04		1135786		10.07		607512		12.90	
	LOWER LIMIT	74235		7.04		283946		9.07		151878		11.90	
	CLIENT SAMP. NO.												
01	JT82MBS1	150422		7.54		571451		9.57		303787		12.40	
02	JT82LCSS1	155723		7.54		607030		9.57		327888		12.40	
03	T4-S3-01-J	157737		7.53		598960		9.57		311443		12.40	
04	T4-S3-01-K	159700		7.54		612628		9.57		324438		12.40	
05	T4-S3-02-G	149412		7.54		575977		9.57		303593		12.41	
06	T4-S3-02-J	147733		7.54		557659		9.57		291896		12.40	
07	T4-S3-02-K-D	152797		7.54		584946		9.57		311583		12.40	
08	T4-S3-02-K-D	151490		7.54		585956		9.57		305800		12.40	
09	T4-S3-02-K-D	152198		7.54		581180		9.56		302053		12.40	
10	T4-S3-02-H	149033		7.53		566871		9.56		297166		12.40	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Cont. Calib. ID: CC0905 Date Analyzed: 09/05/06

Instrument ID: NT4 Time Analyzed: 1442

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	446635		14.75		372366		19.03		411060		21.16	
	UPPER LIMIT	893270		15.25		744732		19.53		822120		21.66	
	LOWER LIMIT	223318		14.25		186183		18.53		205530		20.66	
	CLIENT SAMP. NO.												
01	JT82MBS1	446897		14.75		345862		19.02		352332		21.16	
02	JT82LCSS1	476286		14.75		389039		19.02		407202		21.16	
03	T4-S3-01-J	453798		14.75		436419		19.04		473670		21.19	
04	T4-S3-01-K	473090		14.74		378690		19.02		408106		21.16	
05	T4-S3-02-G	472243		14.76		498905		19.05		572413		21.21	
06	T4-S3-02-J	422930		14.75		388984		19.03		467046		21.17	
07	T4-S3-02-K-D	451306		14.74		379370		19.02		437090		21.16	
08	T4-S3-02-K-D	446581		14.75		372511		19.02		418625		21.16	
09	T4-S3-02-K-D	441187		14.75		366630		19.02		418490		21.16	
10	T4-S3-02-H	447532		14.76		426300		19.04		490623		21.18	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Cont. Calib. ID: CC0905 Date Analyzed: 09/05/06

Instrument ID: NT4 Time Analyzed: 1442

		IS7 AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	790006		20.23									
	UPPER LIMIT	1580012		20.73									
	LOWER LIMIT	395003		19.73									
	CLIENT SAMP. NO.												
01	JT82MBS1	746007		20.23									
02	JT82LCSS1	808895		20.23									
03	T4-S3-01-J	818771		20.25									
04	T4-S3-01-K	775256		20.23									
05	T4-S3-02-G	1049622		20.26									
06	T4-S3-02-J	832136		20.24									
07	T4-S3-02-K-D	774384		20.23									
08	T4-S3-02-K-D	770908		20.23									
09	T4-S3-02-K-D	756520		20.23									
10	T4-S3-02-H	903187		20.24									
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

Semivolatile Organics
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-01-J**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 20:20
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 33.1%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	99	< 99 U
84-66-2	Diethylphthalate	99	< 99 U
84-74-2	Di-n-Butylphthalate	99	< 99 U
85-68-7	Butylbenzylphthalate	99	< 99 U
117-81-7	bis(2-Ethylhexyl)phthalate	99	< 99 U
117-84-0	Di-n-Octyl phthalate	99	< 99 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	45.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82a.d
Lab Smp Id: JT82A Client Smp ID: T4-S3-01-J
Inj Date : 05-SEP-2006 20:20
Operator : VTS Inst ID: nt4.i
Smp Info : JT82A,5
Misc Info : 06-15215
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:48 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 10
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	75.60000	Weight of sample extracted (g)
M	33.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.571	5.571	(0.740)	47193	3.75063	370.8
$ 2 Phenol-d5	99	7.147	7.162	(0.949)	58389	3.84150	379.8
3 Phenol	94	7.168	7.184	(0.952)	12696	0.69245 LDL	68.46
$ 5 2-Chlorophenol-d4	132	7.238	7.248	(0.961)	44600	3.64242	360.1
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	7.532	7.536	(1.000)	157737	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.831	7.836	(1.040)	16524	2.23583	221.0
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.461	8.471	(0.884)	42790	2.47808	245.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.284	9.438	(0.970)	18974	2.37301 LDL	234.6
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.567	9.572	(1.000)	598960	20.0000	
	28 Naphthalene	128	9.594	9.604	(1.003)	111931	3.48945	345.0
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	10.710	10.720	(1.119)	37552	2.23059	220.5
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.357	11.367	(0.916)	55306	2.60092	257.1
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.398	12.403	(1.000)	311443	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	12.446	12.457	(1.004)	327788	18.1084	1790
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	12.703	12.713	(1.025)	104716	4.37215	432.3
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	13.258	13.269	(1.069)	186169	9.33948	923.3
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.675	13.691	(1.103)	9254	3.57642	353.6
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.749	14.754	(1.000)	453798	20.0000	
	60 Phenanthrene	178	14.792	14.786	(1.003)	2036260	76.7880	7591
	61 Anthracene	178	14.850	14.860	(1.007)	364033	13.8606	1370
	62 Carbazole	167	15.144	15.154	(1.027)	304255	12.9143	1277
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
64 Fluoranthene	202	16.725	16.704	(1.134)	4120973	158.056 E	15630
65 Pyrene	202	17.073	17.051	(0.896)	3902902	118.068 E	11670
$ 66 Terphenyl-d14	244	17.393	17.393	(0.913)	52897	2.29328	226.7
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	19.023	19.006	(0.999)	2837367	91.6889 E	9064
* 69 Chrysene-d12	240	19.044	19.033	(1.000)	436419	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	19.092	19.070	(1.003)	3142043	108.135 E	10690
72 bis(2-Ethylhexyl)phthalate	149	19.311	19.305	(0.954)	16433	0.85678 LDL	84.70(M) — J(B) not reported
* 134 Di-n-octylphthalate-d4	153	20.246	20.235	(1.000)	818771	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	20.695	20.651	(0.977)	4952143	174.810 E	17280
75 Benzo(k)fluoranthene	252	20.716	20.683	(0.978)	1636999	55.6230	5499(M)
76 Benzo(a)pyrene	252	21.138	21.089	(0.997)	3483307	134.222 E	13270
* 77 Perylene-d12	264	21.191	21.164	(1.000)	473670	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.580	22.532	(1.066)	2499147	72.8828	7205
79 Dibenzo(a,h)anthracene	278	22.591	22.559	(1.066)	1060997	37.8481	3742
80 Benzo(g,h,i)perylene	276	22.928	22.874	(1.082)	2186160	72.4483	7162
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	10.876	10.886	(1.137)	19899	1.16121	114.8
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82a.d
Lab Smp Id: JT82A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15215

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-01-J
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	157737	6.24
27 Naphthalene-d8	567893	283946	1135786	598960	5.47
42 Acenaphthene-d10	303756	151878	607512	311443	2.53
59 Phenanthrene-d10	446635	223318	893270	453798	1.60
69 Chrysene-d12	372366	186183	744732	436419	17.20
134 Di-n-octylphthala	790006	395003	1580012	818771	3.64
77 Perylene-d12	411060	205530	822120	473670	15.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.53	-0.06
27 Naphthalene-d8	9.57	9.07	10.07	9.57	-0.05
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	-0.04
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	-0.03
69 Chrysene-d12	19.03	18.53	19.53	19.04	0.06
134 Di-n-octylphthala	20.23	19.73	20.73	20.25	0.06
77 Perylene-d12	21.16	20.66	21.66	21.19	0.13

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

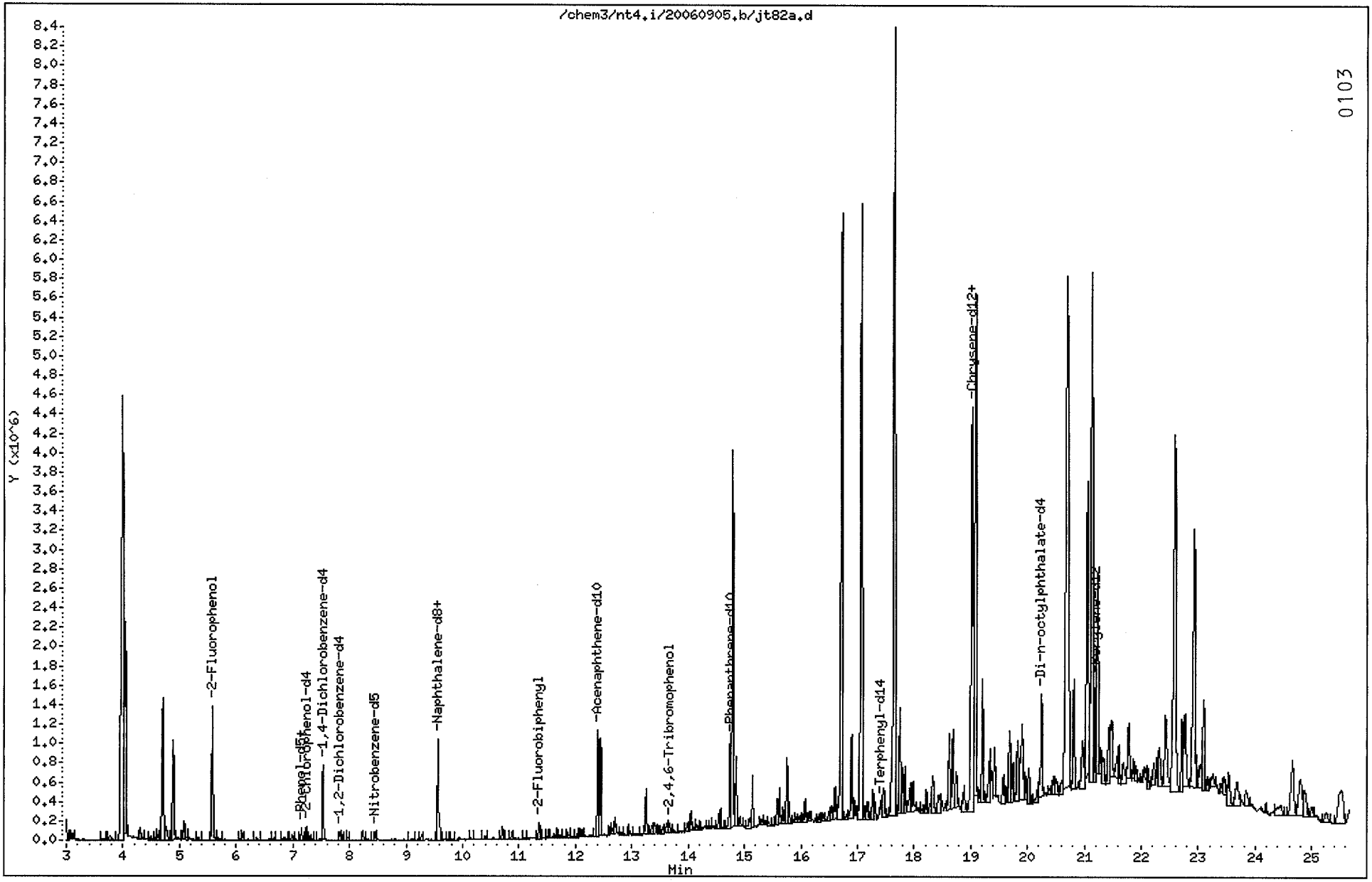
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82A
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15215

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-01-J
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	741.5	370.8	50.01	22-91
$ 2 Phenol-d5	741.5	379.8	51.22	26-99
$ 5 2-Chlorophenol-d4	741.5	360.1	48.57	29-96
$ 10 1,2-Dichlorobenzen	494.3	221.0	44.72	24-87
$ 18 Nitrobenzene-d5	494.3	245.0	49.56	27-101
$ 36 2-Fluorobiphenyl	494.3	257.1	52.02	30-100
$ 55 2,4,6-Tribromophen	741.5	353.6	47.69	20-114
$ 66 Terphenyl-d14	494.3	226.7	45.87	12-120

Data File: /chem3/nt4.i/20060905.b/jt82a.d
Date : 05-SEP-2006 20:20
Client ID: T4-S3-01-J
Sample Info: JT82A,5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



Data File: /chem3/nt4.i/20060905.b/jt82a.d

Date : 05-SEP-2006 20:20

Client ID: T4-S3-01-J

Instrument: nt4.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5

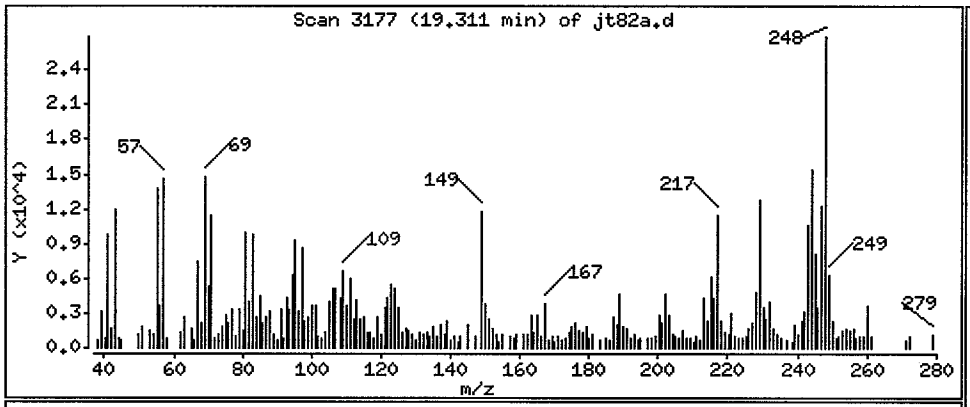
Column diameter: 0.32

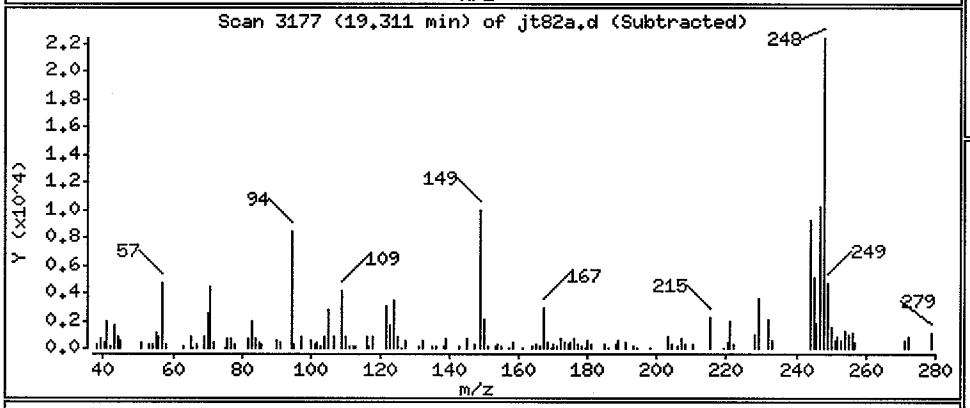
LRC

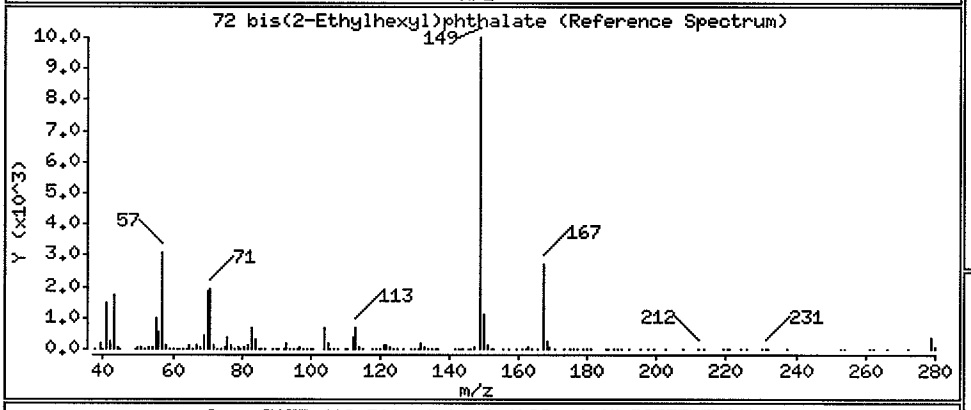
J(B) not Reported 9/7/06

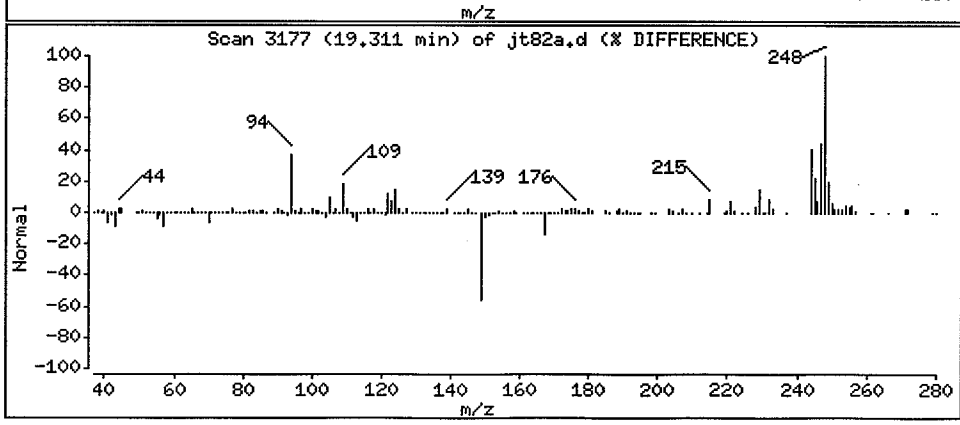
72 bis(2-Ethylhexyl)phthalate

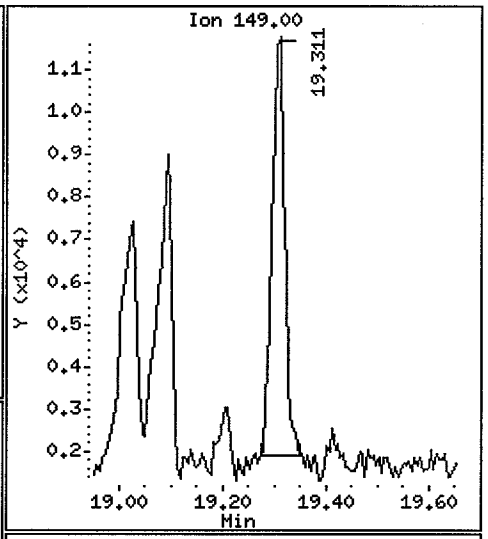
Concentration: 84.70 ug/kg

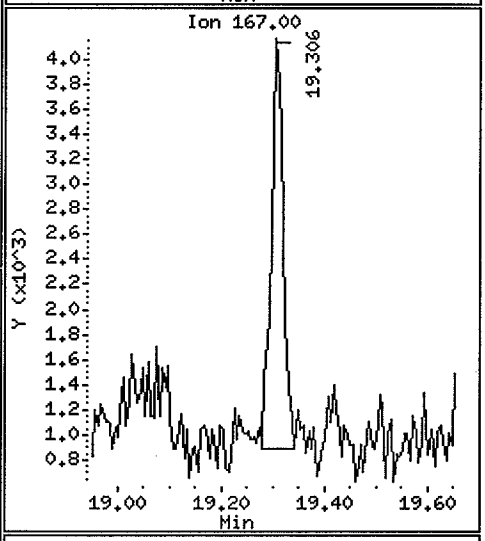


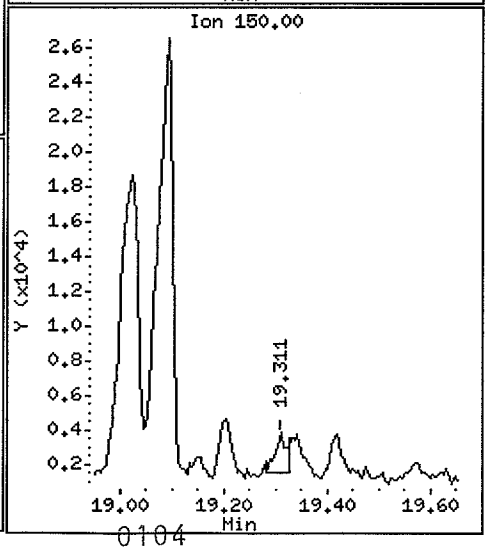












0104

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-01-K**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82B
LIMS ID: 06-15216
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 20:54
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 31.3%
pH: 6.2

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	57.2%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82b.d
Lab Smp Id: JT82B Client Smp ID: T4-S3-01-K
Inj Date : 05-SEP-2006 20:54
Operator : VTS Inst ID: nt4.i
Smp Info : JT82B
Misc Info : 06-15216
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:48 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	73.90000	Weight of sample extracted (g)
M	31.30000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.608	5.571	(0.744)	297693	23.3681	460.3
$ 2 Phenol-d5	99	7.157	7.162	(0.950)	336450	21.8635	430.6
3 Phenol	94	7.173	7.184	(0.952)	14122	0.76076 LDL	14.98
$ 5 2-Chlorophenol-d4	132	7.243	7.248	(0.961)	255714	20.6271	406.3
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	7.537	7.536	(1.000)	159700	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.830	7.836	(1.039)	97404	13.0175	256.4
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.461	8.471	(0.884)	253295	14.3417	282.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.310	9.438	(0.973)	41509	5.07557 LDL	99.97
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.567	9.572	(1.000)	612628	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.356	11.367	(0.916)	308805	13.9407	274.6
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.398	12.403	(1.000)	324438	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	12.446	12.457	(1.004)	19007	1.00797	19.85
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.680	13.691	(1.103)	52686	19.5462	385.0
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.743	14.754	(1.000)	473090	20.0000	
	60 Phenanthrene	178	14.775	14.786	(1.002)	104264	3.77150	74.29
	61 Anthracene	178	14.845	14.860	(1.007)	21818	0.79685 LDL	15.70
	62 Carbazole	167	15.139	15.154	(1.027)	15342	0.62464	12.30
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	16.693	16.704	(1.132)	212773	7.82791	154.2
65 Pyrene	202	17.040	17.051	(0.896)	206701	7.20622	141.9
$ 66 Terphenyl-d14	244	17.388	17.393	(0.914)	286270	14.3028	281.7
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	18.990	19.006	(0.999)	138247	5.14845	101.4
* 69 Chrysene-d12	240	19.017	19.033	(1.000)	378690	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	19.054	19.070	(1.002)	143655	5.69764	112.2
72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134 Di-n-octylphthalate-d4	153	20.230	20.235	(1.000)	775256	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	20.636	20.651	(0.975)	161524	6.61778	130.3
75 Benzo(k)fluoranthene	252	20.657	20.683	(0.976)	149721	5.90462	116.3(M)
76 Benzo(a)pyrene	252	21.074	21.089	(0.996)	152675	6.82814	134.5
* 77 Perylene-d12	264	21.159	21.164	(1.000)	408106	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.511	22.532	(1.064)	124773	4.22335	83.19(M)
79 Dibenzo(a,h)anthracene	278	22.537	22.559	(1.065)	26972	1.11672	22.00(M)
80 Benzo(g,h,i)perylene	276	22.847	22.874	(1.080)	118083	4.54189	89.46(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82b.d
Lab Smp Id: JT82B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15216

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-01-K
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	159700	7.56
27 Naphthalene-d8	567893	283946	1135786	612628	7.88
42 Acenaphthene-d10	303756	151878	607512	324438	6.81
59 Phenanthrene-d10	446635	223318	893270	473090	5.92
69 Chrysene-d12	372366	186183	744732	378690	1.70
134 Di-n-octylphthala	790006	395003	1580012	775256	-1.87
77 Perylene-d12	411060	205530	822120	408106	-0.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.00
27 Naphthalene-d8	9.57	9.07	10.07	9.57	-0.05
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	-0.04
59 Phenanthrene-d10	14.75	14.25	15.25	14.74	-0.07
69 Chrysene-d12	19.03	18.53	19.53	19.02	-0.08
134 Di-n-octylphthala	20.23	19.73	20.73	20.23	-0.03
77 Perylene-d12	21.16	20.66	21.66	21.16	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

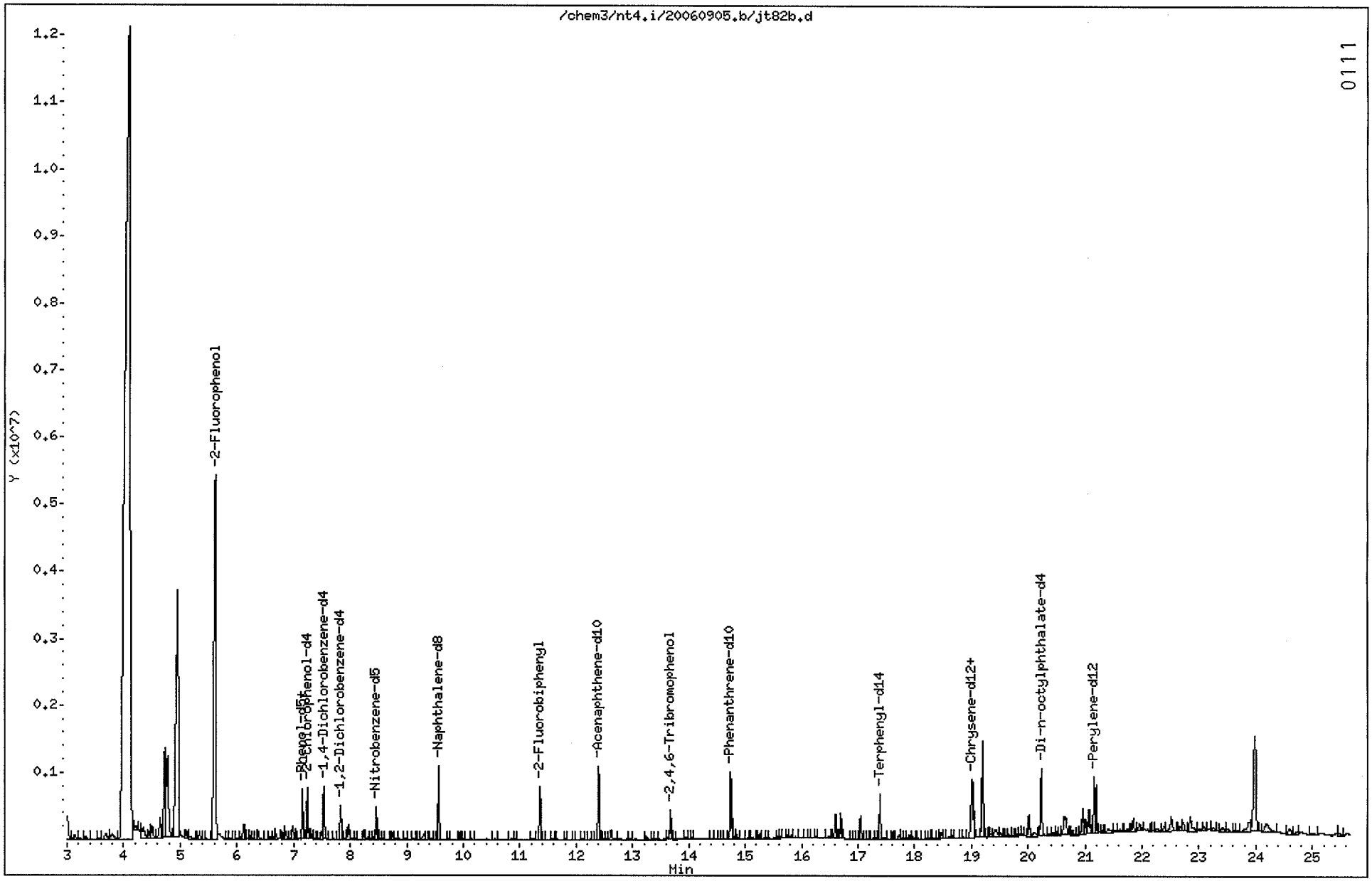
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82B
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15216

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-01-K
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	738.6	460.3	62.31	22-91
$ 2 Phenol-d5	738.6	430.6	58.30	26-99
$ 5 2-Chlorophenol-d4	738.6	406.3	55.01	29-96
$ 10 1,2-Dichlorobenzen	492.4	256.4	52.07	24-87
$ 18 Nitrobenzene-d5	492.4	282.5	57.37	27-101
$ 36 2-Fluorobiphenyl	492.4	274.6	55.76	30-100
$ 55 2,4,6-Tribromophen	738.6	385.0	52.12	20-114
$ 66 Terphenyl-d14	492.4	281.7	57.21	12-120

Data File: /chem3/nt4.i/20060905.b/jt82b.d
Date : 05-SEP-2006 20:54
Client ID: T4-S3-01-K
Sample Info: JT82B
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-G**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82C
LIMS ID: 06-15217
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 21:26
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 37.3%
pH: 6.8

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**110 B**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	42.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82c.d
Lab Smp Id: JT82C Client Smp ID: T4-S3-02-G
Inj Date : 05-SEP-2006 21:26
Operator : VTS Inst ID: nt4.i
Smp Info : JT82C
Misc Info : 06-15217
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:48 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	80.10000	Weight of sample extracted (g)
M	37.30000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1	2-Fluorophenol	112	5.608	5.571	(0.744)	240616	20.1883	402.0
$ 2	Phenol-d5	99	7.157	7.162	(0.950)	279167	19.3902	386.1
3	Phenol	94	7.178	7.184	(0.952)	25798	1.48545 B	29.58
$ 5	2-Chlorophenol-d4	132	7.243	7.248	(0.961)	220217	18.9869	378.1
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	7.536	7.536	(1.000)	149412	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	7.830	7.836	(1.039)	76121	10.8737	216.5
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
15	4-Methylphenol	108	8.332	8.338	(1.106)	6387	0.60929	12.13	
$ 18	Nitrobenzene-d5	82	8.461	8.471	(0.884)	204204	12.2979	244.9	
19	Nitrobenzene	77	Compound Not Detected.						
20	Isophorone	82	Compound Not Detected.						
21	2-Nitrophenol	139	Compound Not Detected.						
22	2,4-Dimethylphenol	107	Compound Not Detected.						
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
24	Benzoic acid	105	9.342	9.438	(0.977)	83099	10.8076	215.2	(MH)
25	2,4-Dichlorophenol	162	Compound Not Detected.						
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
* 27	Naphthalene-d8	136	9.566	9.572	(1.000)	575977	20.0000		
28	Naphthalene	128	9.598	9.604	(1.003)	76444	2.47823	49.34	
29	4-Chloroaniline	127	Compound Not Detected.						
30	Hexachlorobutadiene	225	Compound Not Detected.						
31	4-Chloro-3-methylphenol	107	Compound Not Detected.						
32	2-Methylnaphthalene	141	10.715	10.720	(1.120)	22036	1.36117	27.10	(M)
33	Hexachlorocyclopentadiene	237	Compound Not Detected.						
34	2,4,6-Trichlorophenol	196	Compound Not Detected.						
35	2,4,5-Trichlorophenol	196	Compound Not Detected.						
$ 36	2-Fluorobiphenyl	172	11.361	11.367	(0.916)	263562	12.7152	253.2	
37	2-Chloronaphthalene	162	Compound Not Detected.						
38	2-Nitroaniline	65	Compound Not Detected.						
39	Dimethylphthalate	163	Compound Not Detected.						
40	Acenaphthylene	152	12.152	12.152	(0.979)	25248	0.90350	17.99	(M)
41	2,6-Dinitrotoluene	165	Compound Not Detected.						
* 42	Acenaphthene-d10	164	12.408	12.403	(1.000)	303593	20.0000		
43	3-Nitroaniline	138	Compound Not Detected.						
44	Acenaphthene	153	12.457	12.457	(1.004)	112113	6.35374	126.5	
45	2,4-Dinitrophenol	184	Compound Not Detected.						
46	Dibenzofuran	168	12.713	12.713	(1.025)	22621	0.96912	19.30	(M)
47	4-Nitrophenol	109	Compound Not Detected.						
48	2,4-Dinitrotoluene	165	Compound Not Detected.						
50	Diethylphthalate	149	Compound Not Detected.						
49	Fluorene	166	13.269	13.269	(1.069)	73615	3.78851	75.43	(M)
51	4-Chlorophenyl-phenylether	204	Compound Not Detected.						
52	4-Nitroaniline	138	Compound Not Detected.						
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
54	N-Nitrosodiphenylamine	169	13.504	13.514	(0.915)	22517	2.41937	48.17	(M)
$ 55	2,4,6-Tribromophenol	330	13.691	13.691	(1.103)	47953	19.0117	378.5	
56	4-Bromophenyl-phenylether	248	Compound Not Detected.						
57	Hexachlorobenzene	284	Compound Not Detected.						
58	Pentachlorophenol	266	Compound Not Detected.						
* 59	Phenanthrene-d10	188	14.764	14.754	(1.000)	472243	20.0000		
60	Phenanthrene	178	14.802	14.786	(1.003)	833162	30.1917	601.2	
61	Anthracene	178	14.866	14.860	(1.007)	129623	4.74264	94.43	
62	Carbazole	167	15.160	15.154	(1.027)	57881	2.36083	47.01	
63	Di-n-butylphthalate	149	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
64	Fluoranthene	202	16.784	16.704	(1.137)	1642606	60.5398	1205
65	Pyrene	202	17.104	17.051	(0.898)	1645790	43.5517	867.2
$ 66	Terphenyl-d14	244	17.419	17.393	(0.914)	279839	10.6125	211.3
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	19.033	19.006	(0.999)	843841	23.8533	474.9
* 69	Chrysene-d12	240	19.054	19.033	(1.000)	498905	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	19.097	19.070	(1.002)	998332	30.0549	598.4
72	bis(2-Ethylhexyl)phthalate	149	19.321	19.305	(0.954)	137178	5.57915 B	111.1
* 134	Di-n-octylphthalate-d4	153	20.256	20.235	(1.000)	1049622	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	20.694	20.651	(0.976)	1166720	34.0804	678.6(M)
75	Benzo(k)fluoranthene	252	20.710	20.683	(0.977)	657790	18.4952	368.3(M)
76	Benzo(a)pyrene	252	21.132	21.089	(0.996)	950742	30.3152	603.6
* 77	Perylene-d12	264	21.207	21.164	(1.000)	572413	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.575	22.532	(1.064)	636796	15.3674	306.0
79	Dibenzo(a,h)anthracene	278	22.591	22.559	(1.065)	123604	3.64862	72.65(M)
80	Benzo(g,h,i)perylene	276	22.916	22.874	(1.081)	587981	16.1241	321.1
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	10.881	10.886	(1.137)	10975	0.66600	13.26(M)
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82c.d
Lab Smp Id: JT82C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15217

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-02-G
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	149412	0.63
27 Naphthalene-d8	567893	283946	1135786	575977	1.42
42 Acenaphthene-d10	303756	151878	607512	303593	-0.05
59 Phenanthrene-d10	446635	223318	893270	472243	5.73
69 Chrysene-d12	372366	186183	744732	498905	33.98
134 Di-n-octylphthala	790006	395003	1580012	1049622	32.86
77 Perylene-d12	411060	205530	822120	572413	39.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.00
27 Naphthalene-d8	9.57	9.07	10.07	9.57	-0.06
42 Acenaphthene-d10	12.40	11.90	12.90	12.41	0.04
59 Phenanthrene-d10	14.75	14.25	15.25	14.76	0.07
69 Chrysene-d12	19.03	18.53	19.53	19.05	0.11
134 Di-n-octylphthala	20.23	19.73	20.73	20.26	0.11
77 Perylene-d12	21.16	20.66	21.66	21.21	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

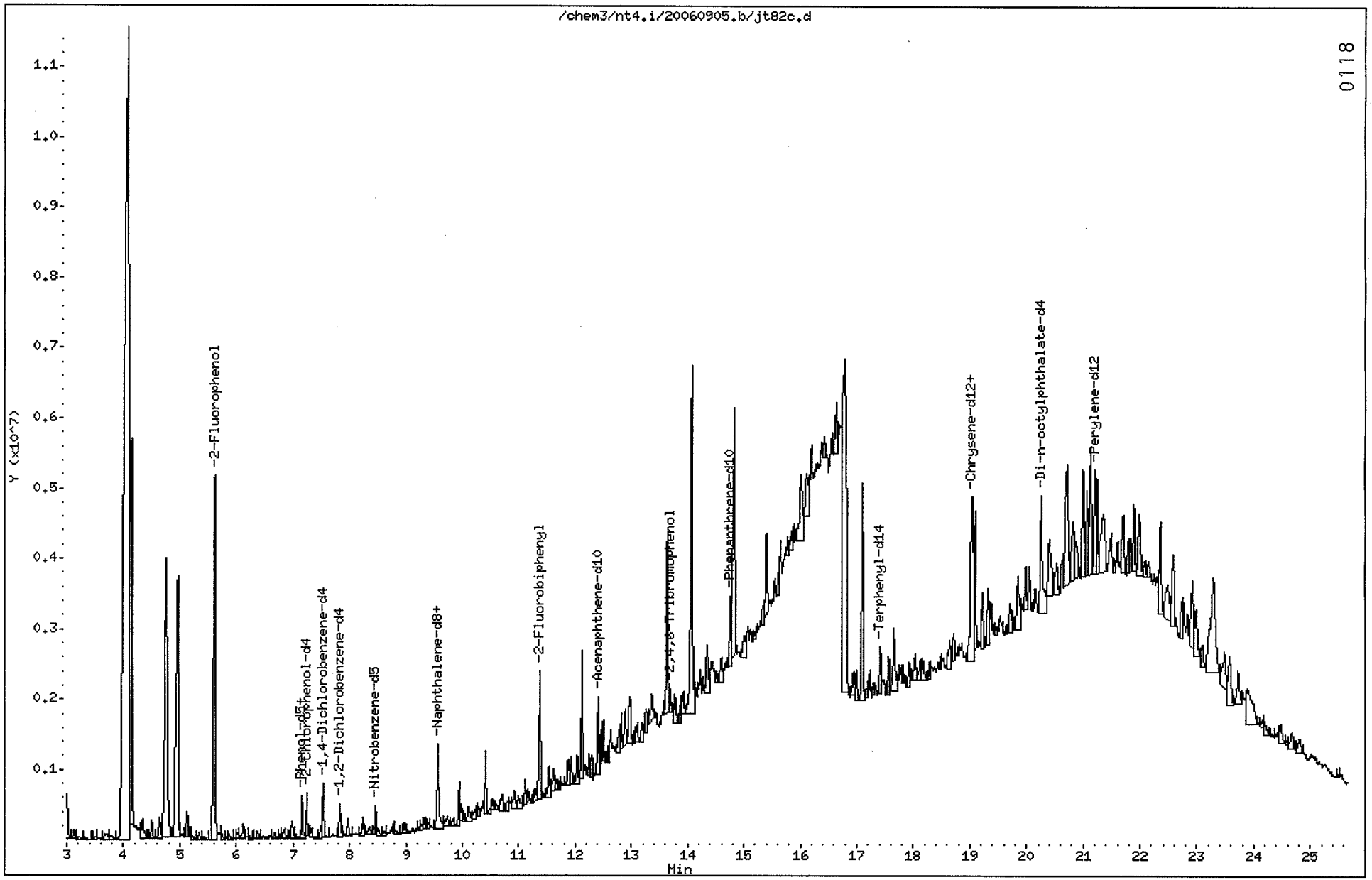
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82C
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15217

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-G
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	746.7	402.0	53.84	22-91
$ 2 Phenol-d5	746.7	386.1	51.71	26-99
$ 5 2-Chlorophenol-d4	746.7	378.1	50.63	29-96
$ 10 1,2-Dichlorobenzen	497.8	216.5	43.49	24-87
$ 18 Nitrobenzene-d5	497.8	244.9	49.19	27-101
$ 36 2-Fluorobiphenyl	497.8	253.2	50.86	30-100
$ 55 2,4,6-Tribromophen	746.7	378.5	50.70	20-114
$ 66 Terphenyl-d14	497.8	211.3	42.45	12-120

Data File: /chem3/nt4.i/20060905.b/jt82c.d
Date : 05-SEP-2006 21:26
Client ID: T4-S3-02-G
Sample Info: JT82C
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



Data File: /chem3/nt4.i/20060905.b/jt82c.d

Date : 05-SEP-2006 21:26

Client ID: T4-S3-02-G

Instrument: nt4.i

Sample Info: JT82C

Volume Injected (uL): 1.0

Operator: VTS

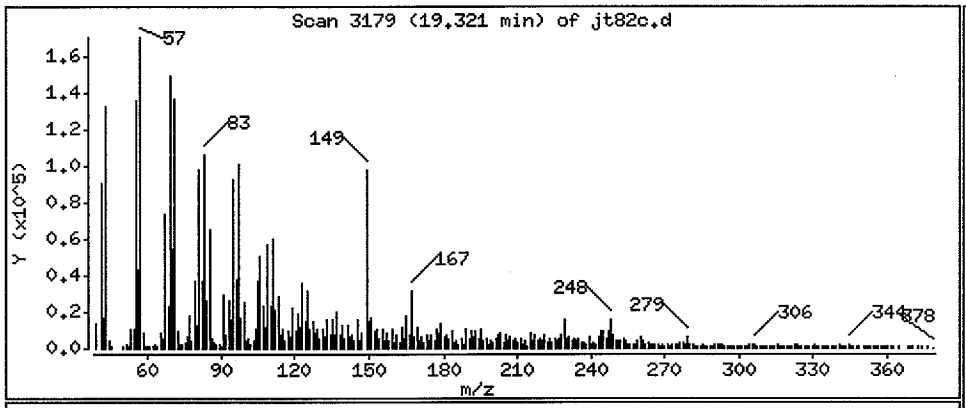
Column phase: ZB-5

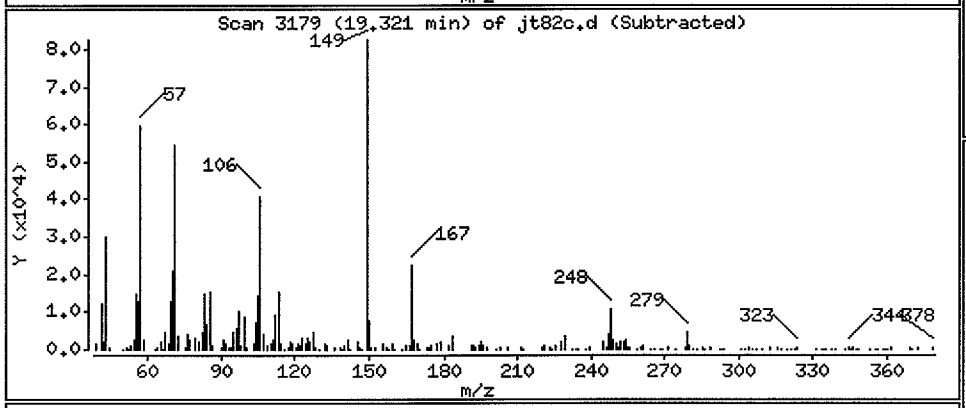
Column diameter: 0.32

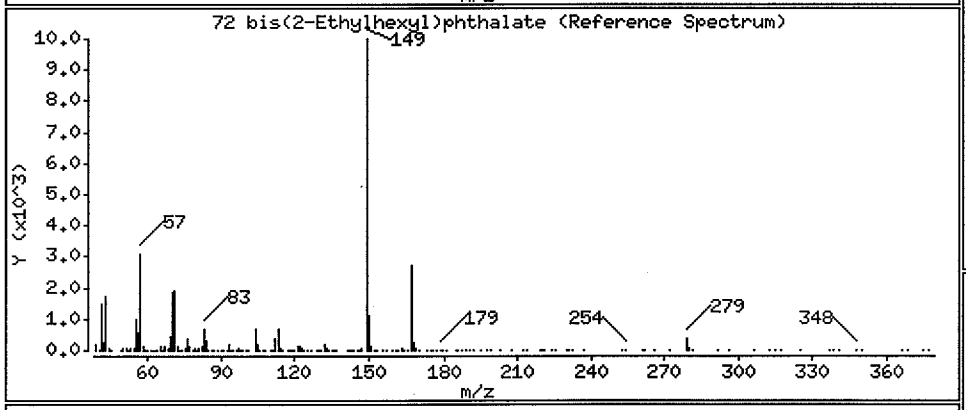
72 bis(2-Ethylhexyl)phthalate

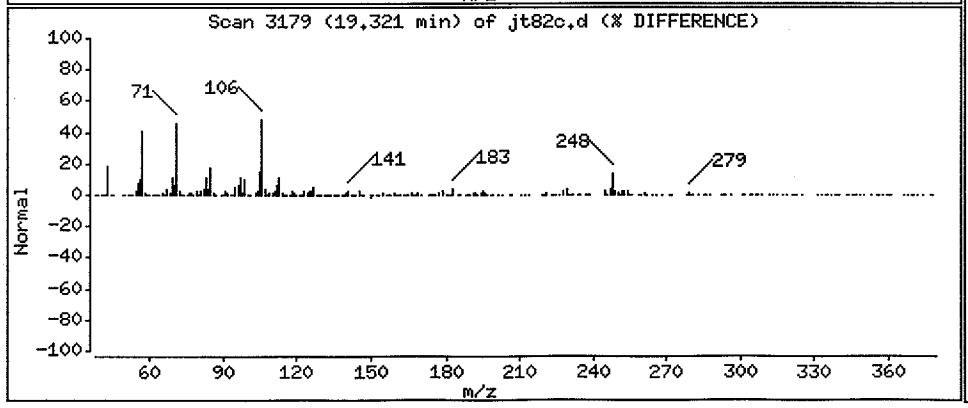
Concentration: 111.1 ug/kg

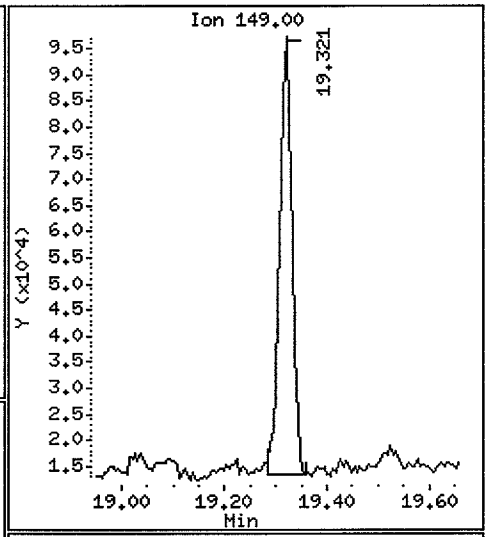
(B)

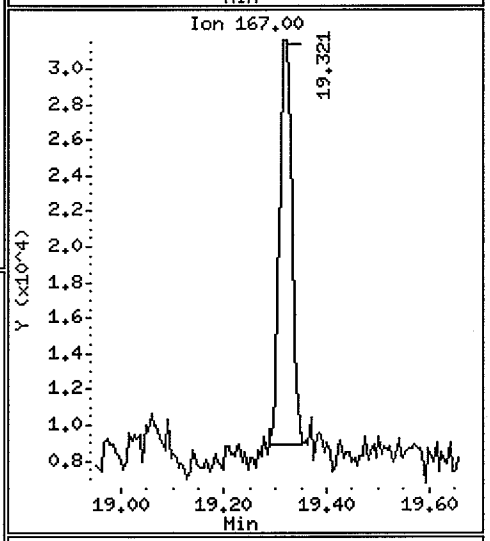


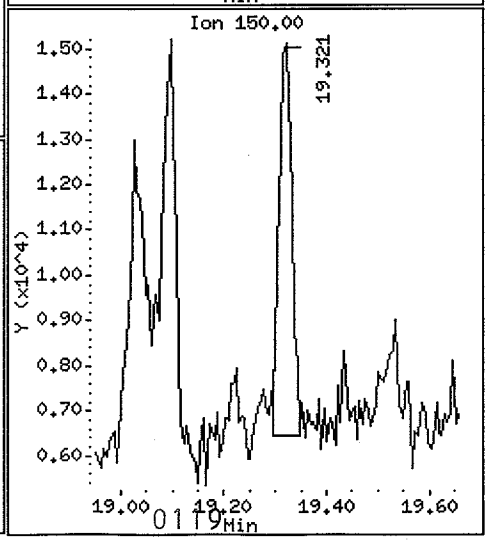












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-J**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82D
LIMS ID: 06-15218
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 21:59
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 25.4%
pH: 6.5

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	56.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82d.d
Lab Smp Id: JT82D Client Smp ID: T4-S3-02-J
Inj Date : 05-SEP-2006 21:59
Operator : VTS Inst ID: nt4.i
Smp Info : JT82D
Misc Info : 06-15218
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:48 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	68.30000	Weight of sample extracted (g)
M	25.40000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	5.629	5.571	(0.747)	307671	26.1077	512.4
$	2 Phenol-d5	99	7.163	7.162	(0.950)	330462	23.2139	455.6
	3 Phenol	94	7.179	7.184	(0.952)	12335	0.71832 LPL	14.10
$	5 2-Chlorophenol-d4	132	7.243	7.248	(0.961)	254195	22.1655	435.0
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	7.537	7.536	(1.000)	147733	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	7.830	7.836	(1.039)	95237	13.7589	270.0
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.466	8.471	(0.885)	239211	14.8793	292.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.321	9.438	(0.974)	50929	6.84125 LDL	134.3
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.566	9.572	(1.000)	557659	20.0000	
	28 Naphthalene	128	9.599	9.604	(1.003)	37747	1.26391	24.81
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	10.710	10.720	(1.119)	8686	0.55416 LDL	10.88
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.361	11.367	(0.916)	297667	14.9361	293.1
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.403	12.403	(1.000)	291896	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	12.451	12.457	(1.004)	29695	1.75033	34.35
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	13.263	13.269	(1.069)	13621	0.72908 LDL	14.31
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	13.541	13.514	(0.918)	6390	0.76664 LDL	15.05 (MH)
$	55 2,4,6-Tribromophenol	330	13.685	13.691	(1.103)	57047	23.5235	461.7
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.754	14.754	(1.000)	422930	20.0000	
	60 Phenanthrene	178	14.786	14.786	(1.002)	215958	8.73824	171.5
	61 Anthracene	178	14.855	14.860	(1.007)	32961	1.34659	26.43
	62 Carbazole	167	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	16.741	16.704	(1.135)	352429	14.5036	284.7
65 Pyrene	202	17.067	17.051	(0.897)	416552	14.1379	277.5
$ 66 Terphenyl-d14	244	17.398	17.393	(0.914)	288264	14.0213	275.2
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	19.006	19.006	(0.999)	120186	4.35740	85.52
* 69 Chrysene-d12	240	19.033	19.033	(1.000)	388984	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	19.070	19.070	(1.002)	166256	6.41954	126.0
72 bis(2-Ethylhexyl)phthalate	149	19.305	19.305	(0.954)	14212	0.72908 LOL	14.31(M)
* 134 Di-n-octylphthalate-d4	153	20.240	20.235	(1.000)	832136	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	20.651	20.651	(0.975)	143506	5.13758	100.8
75 Benzo(k)fluoranthene	252	20.673	20.683	(0.976)	103614	3.57060	70.08(M)
76 Benzo(a)pyrene	252	21.089	21.089	(0.996)	126400	4.93964	96.95(M)
* 77 Perylene-d12	264	21.175	21.164	(1.000)	467046	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.532	22.532	(1.064)	112739	3.33445	65.44
79 Dibenzo(a,h)anthracene	278	22.553	22.559	(1.065)	14856	0.53746 LOL	10.55(M)
80 Benzo(g,h,i)perylene	276	22.868	22.874	(1.080)	126571	4.25399	83.49
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

(B) NOT Reported 8/30/39 [illegible]

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82d.d
Lab Smp Id: JT82D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15218

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-02-J
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	147733	-0.50
27 Naphthalene-d8	567893	283946	1135786	557659	-1.80
42 Acenaphthene-d10	303756	151878	607512	291896	-3.90
59 Phenanthrene-d10	446635	223318	893270	422930	-5.31
69 Chrysene-d12	372366	186183	744732	388984	4.46
134 Di-n-octylphthala	790006	395003	1580012	832136	5.33
77 Perylene-d12	411060	205530	822120	467046	13.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.00
27 Naphthalene-d8	9.57	9.07	10.07	9.57	-0.06
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.00
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	0.00
69 Chrysene-d12	19.03	18.53	19.53	19.03	0.00
134 Di-n-octylphthala	20.23	19.73	20.73	20.24	0.03
77 Perylene-d12	21.16	20.66	21.66	21.17	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

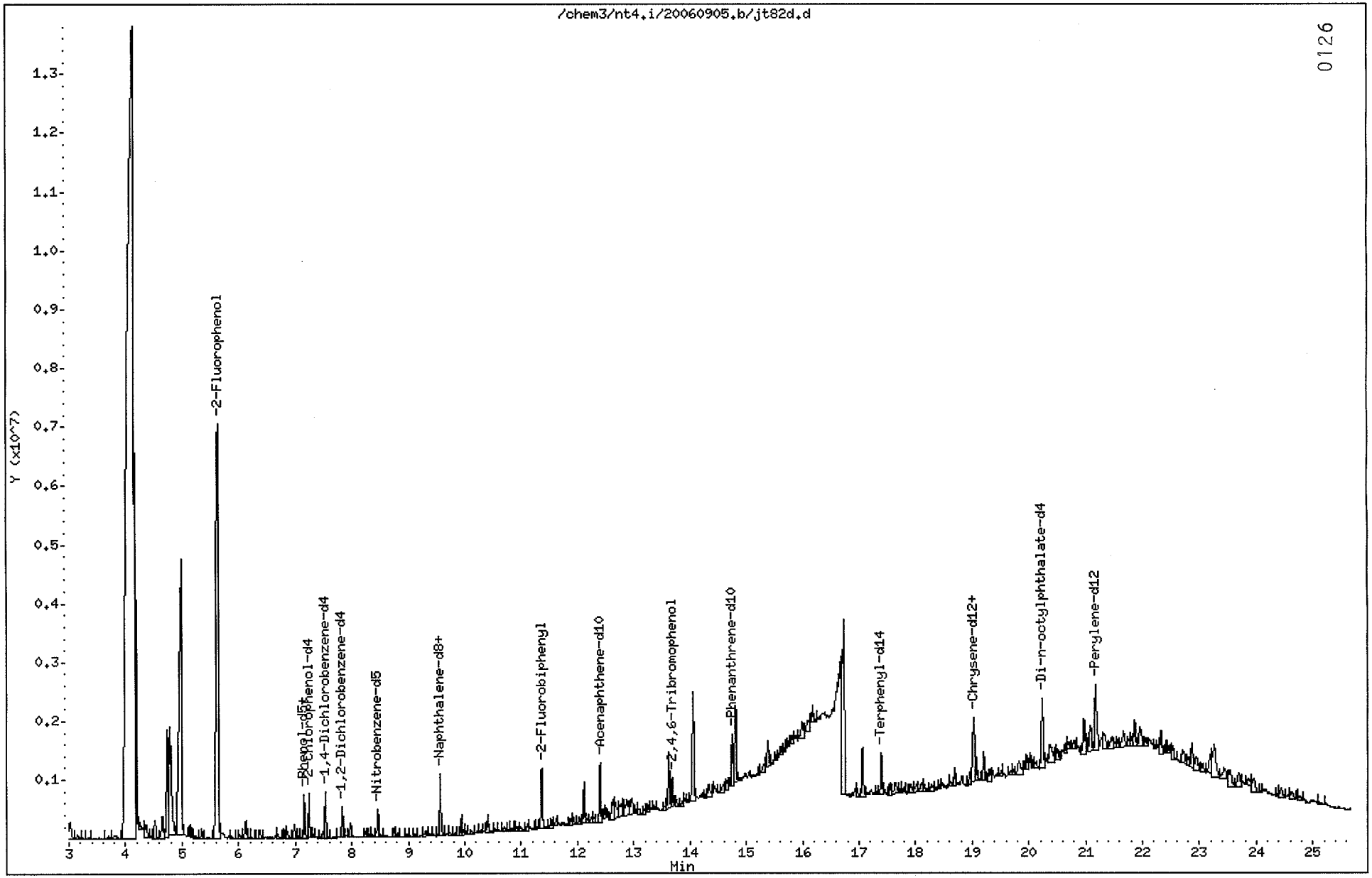
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82D
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15218

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-J
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	736.0	512.4	69.62	22-91
$ 2 Phenol-d5	736.0	455.6	61.90	26-99
$ 5 2-Chlorophenol-d4	736.0	435.0	59.11	29-96
$ 10 1,2-Dichlorobenzen	490.7	270.0	55.04	24-87
$ 18 Nitrobenzene-d5	490.7	292.0	59.52	27-101
$ 36 2-Fluorobiphenyl	490.7	293.1	59.74	30-100
$ 55 2,4,6-Tribromophen	736.0	461.7	62.73	20-114
$ 66 Terphenyl-d14	490.7	275.2	56.09	12-120

Data File: /chem3/nt4.i/20060905.b/jt82d.d
Date : 05-SEP-2006 21:59
Client ID: T4-S3-02-J
Sample Info: JT82D
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



Data File: /chem3/nt4.i/20060905.b/jt82d.d

Date : 05-SEP-2006 21:59

Client ID: T4-S3-02-J

Instrument: nt4.i

Sample Info: JT82D

Volume Injected (uL): 1.0

Operator: VTS

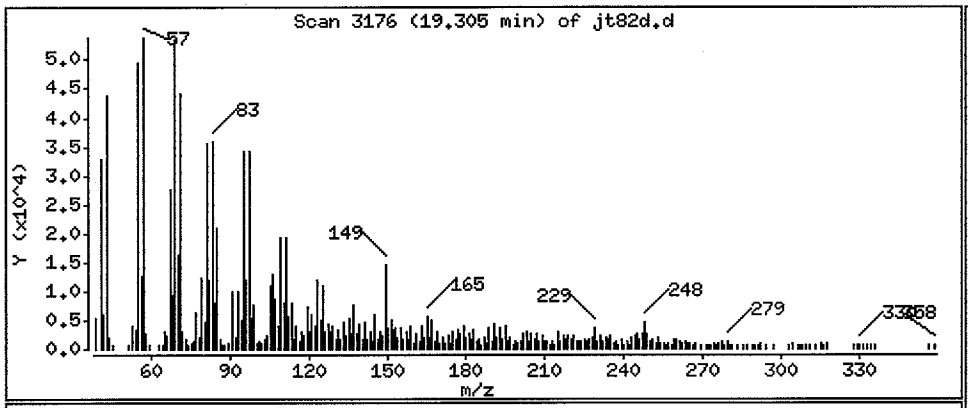
Column phase: ZB-5

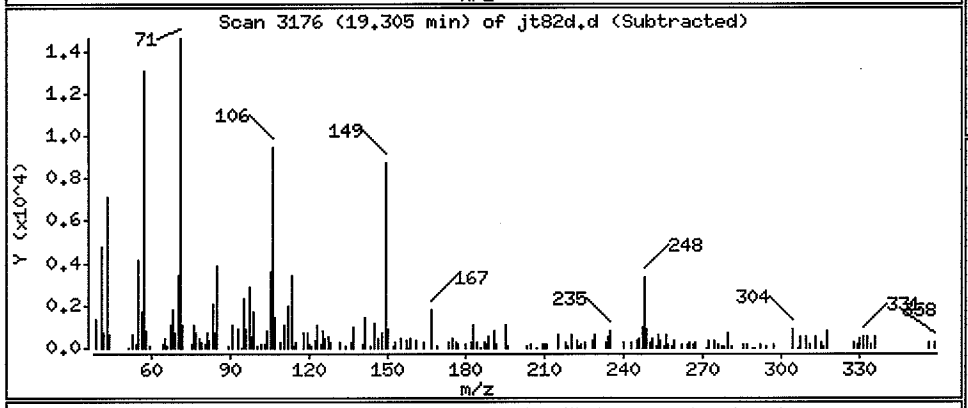
Column diameter: 0.32

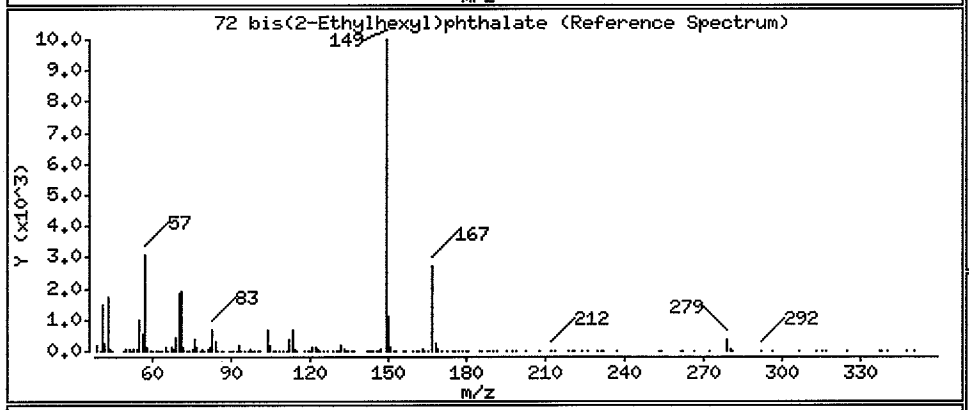
LRL
J (B) NOT Reported
BD 9/7/06

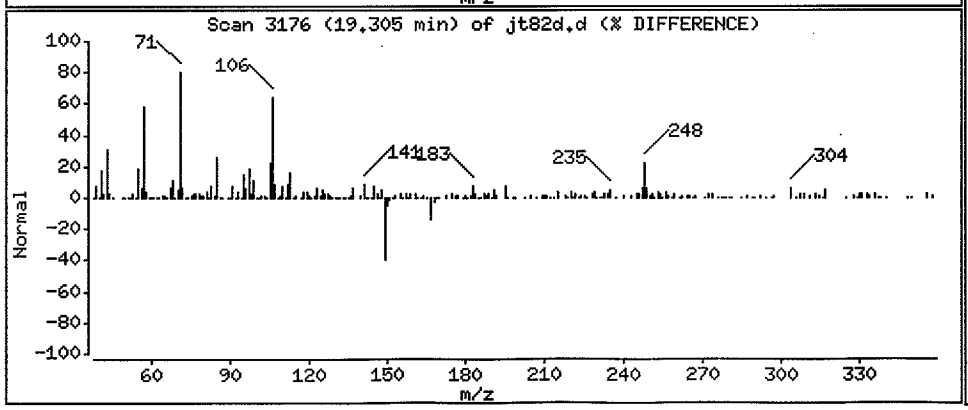
72 bis(2-Ethylhexyl)phthalate

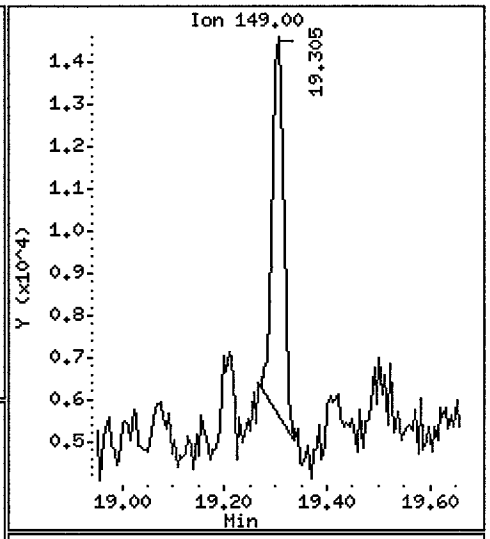
Concentration: 14.31 ug/kg

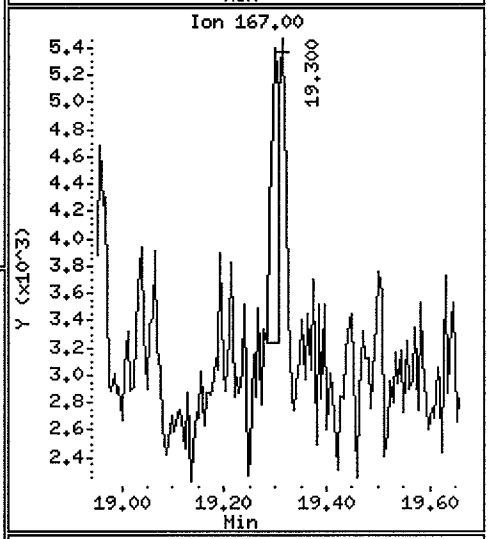


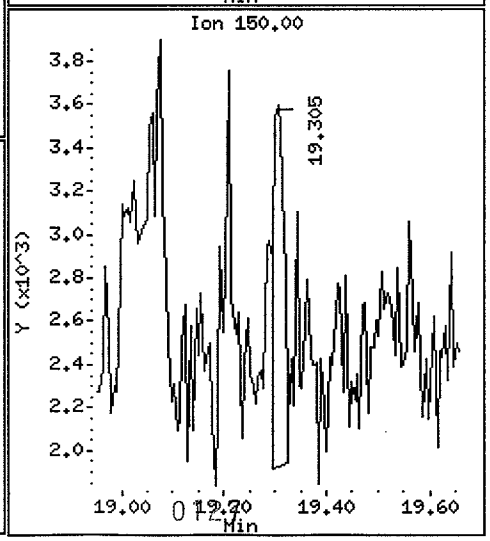












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-K-DUP**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 22:32
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	62.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82e.d
Lab Smp Id: JT82E Client Smp ID: T4-S3-02-K-DUP
Inj Date : 05-SEP-2006 22:32
Operator : VTS Inst ID: nt4.i
Smp Info : JT82E
Misc Info : 06-15219
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:48 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	65.40000	Weight of sample extracted (g)
M	22.10000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1	2-Fluorophenol	112	5.603	5.571	(0.743)	263041	21.5809	423.6
$ 2	Phenol-d5	99	7.157	7.162	(0.950)	298313	20.2610	397.7
3	Phenol	94	7.173	7.184	(0.952)	11388	0.64120 LDL	12.59
$ 5	2-Chlorophenol-d4	132	7.243	7.248	(0.961)	228097	19.2306	377.5
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	7.537	7.536	(1.000)	152797	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	7.830	7.836	(1.039)	85280	11.9121	233.8
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.461	8.471	(0.884)	217787	12.9148	253.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.305	9.438	(0.973)	39324	5.03595 LBL	98.85
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.567	9.572	(1.000)	584946	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.362	11.367	(0.916)	277103	13.0257	255.7
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.398	12.403	(1.000)	311583	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.680	13.691	(1.103)	58943	22.7697	446.9
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.743	14.754	(1.000)	451306	20.0000	
	60 Phenanthrene	178	14.781	14.786	(1.003)	40175	1.52338	29.90
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	16.698	16.704	(1.133)	62383	2.40585	47.22
	65 Pyrene	202	17.046	17.051	(0.896)	85363	2.97068	58.31
$	66 Terphenyl-d14	244	17.393	17.393	(0.914)	312979	15.6092	306.4
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	18.995	19.006	(0.999)	30395	1.12991	22.18
*	69 Chrysene-d12	240	19.022	19.033	(1.000)	379370	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	19.054	19.070	(1.002)	36523	1.44598	28.38
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	20.230	20.235	(1.000)	774384	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	20.636	20.651	(0.975)	27995	1.07092	21.02
	75 Benzo(k)fluoranthene	252	20.652	20.683	(0.976)	28851	1.06236	20.85(M)
	76 Benzo(a)pyrene	252	21.074	21.089	(0.996)	29983	1.25202	24.58(M)
*	77 Perylene-d12	264	21.159	21.164	(1.000)	437090	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.511	22.532	(1.064)	25354	0.80128 LAL	15.73
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	22.847	22.874	(1.080)	32969	1.18401	23.24
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82e.d
Lab Smp Id: JT82E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-02-K-DUP
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	152797	2.91
27 Naphthalene-d8	567893	283946	1135786	584946	3.00
42 Acenaphthene-d10	303756	151878	607512	311583	2.58
59 Phenanthrene-d10	446635	223318	893270	451306	1.05
69 Chrysene-d12	372366	186183	744732	379370	1.88
134 Di-n-octylphthala	790006	395003	1580012	774384	-1.98
77 Perylene-d12	411060	205530	822120	437090	6.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.00
27 Naphthalene-d8	9.57	9.07	10.07	9.57	-0.05
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	-0.04
59 Phenanthrene-d10	14.75	14.25	15.25	14.74	-0.07
69 Chrysene-d12	19.03	18.53	19.53	19.02	-0.06
134 Di-n-octylphthala	20.23	19.73	20.73	20.23	-0.03
77 Perylene-d12	21.16	20.66	21.66	21.16	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

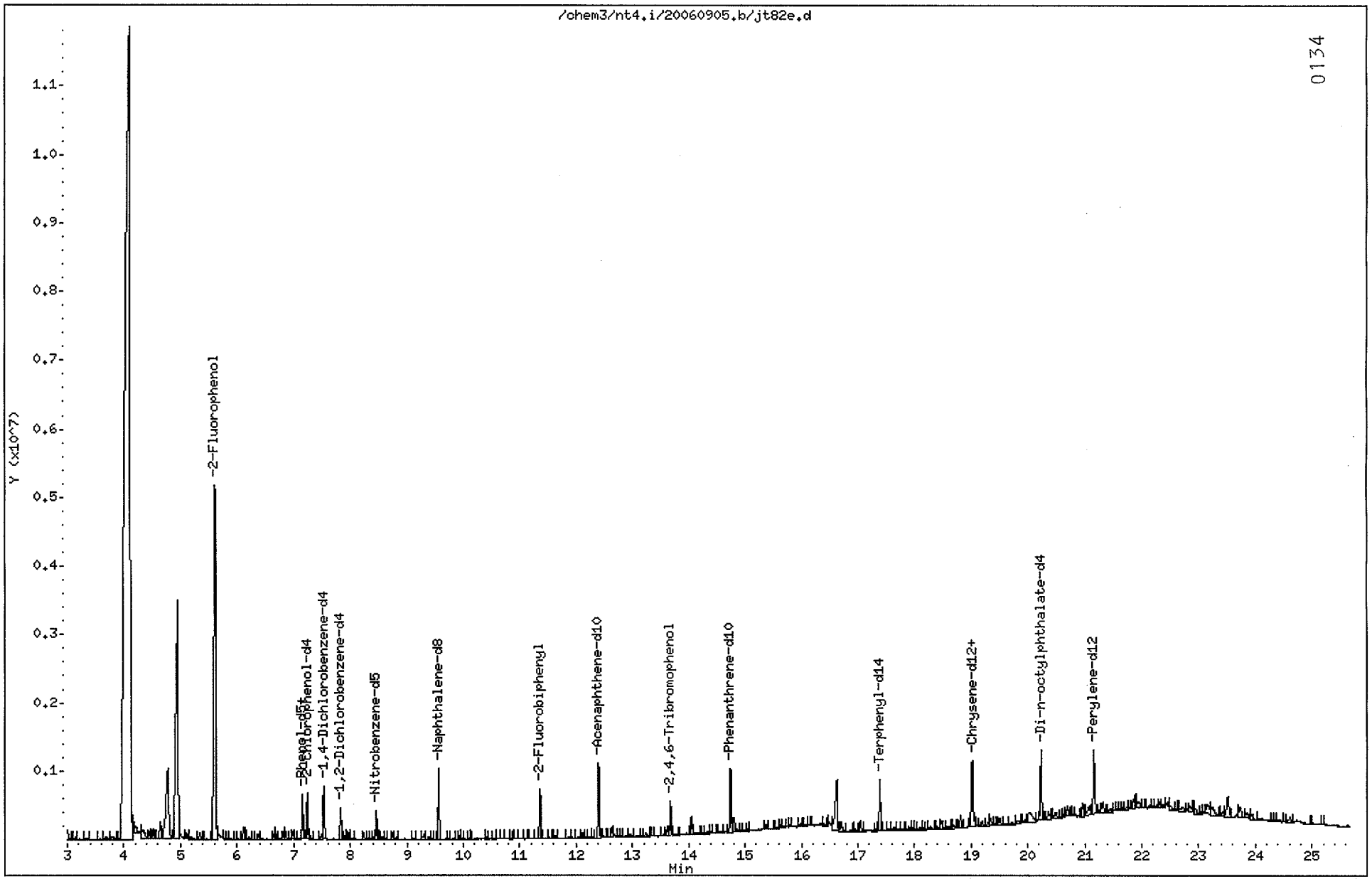
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82E
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-K-DUP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	736.1	423.6	57.55	22-91
$ 2 Phenol-d5	736.1	397.7	54.03	26-99
$ 5 2-Chlorophenol-d4	736.1	377.5	51.28	29-96
$ 10 1,2-Dichlorobenzen	490.7	233.8	47.65	24-87
$ 18 Nitrobenzene-d5	490.7	253.5	51.66	27-101
$ 36 2-Fluorobiphenyl	490.7	255.7	52.10	30-100
$ 55 2,4,6-Tribromophen	736.1	446.9	60.72	20-114
$ 66 Terphenyl-d14	490.7	306.4	62.44	12-120

Data File: /chem3/nt4.i/20060905.b/jt82e.d
Date : 05-SEP-2006 22:32
Client ID: T4-S3-02-K-DUP
Sample Info: JT82E
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-H**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82I
LIMS ID: 06-15223
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/06/06 00:11
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 34.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 32.0%
pH: 6.9

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	29	< 29 U
84-66-2	Diethylphthalate	29	< 29 U
84-74-2	Di-n-Butylphthalate	29	< 29 U
85-68-7	Butylbenzylphthalate	29	< 29 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**29**	**32 B**
117-84-0	Di-n-Octyl phthalate	29	< 29 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	55.6%

0135

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82i.d
Lab Smp Id: JT82I Client Smp ID: T4-S3-02-H
Inj Date : 06-SEP-2006 00:11
Operator : VTS Inst ID: nt4.i
Smp Info : JT82I
Misc Info : 06-15223
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:48 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	51.20000	Weight of sample extracted (g)
M	32.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	5.611	5.571	(0.745)	304435	25.6078	735.5
$	2 Phenol-d5	99	7.160	7.162	(0.950)	344487	23.9880	689.0
	3 Phenol	94	7.176	7.184	(0.952)	16417	0.94770 LDL	27.22
$	5 2-Chlorophenol-d4	132	7.246	7.248	(0.962)	271747	23.4894	674.7
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	7.534	7.536	(1.000)	149033	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	7.828	7.836	(1.039)	98500	14.1062	405.2
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.464	8.471	(0.885)	252499	15.4506	443.8
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.329	9.438	(0.975)	54430	7.19272 LDL	206.6(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.564	9.572	(1.000)	566871	20.0000	
	28 Naphthalene	128	9.596	9.604	(1.003)	45541	1.50011	43.09
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	10.713	10.720	(1.120)	15521	0.97414 LDL	27.98
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.359	11.367	(0.916)	313724	15.4626	444.1
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.401	12.403	(1.000)	297166	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	12.449	12.457	(1.004)	63616	3.68326	105.8
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	12.711	12.713	(1.025)	11448	0.50106 LDL	14.39(M)
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	13.261	13.269	(1.069)	34379	1.80754	51.92
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	13.496	13.514	(0.915)	12068	1.36826 Y	39.30(M)
$	55 2,4,6-Tribromophenol	330	13.689	13.691	(1.104)	56542	22.9018	657.8
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.757	14.754	(1.000)	447532	20.0000	
	60 Phenanthrene	178	14.789	14.786	(1.002)	418510	16.0031	459.6
	61 Anthracene	178	14.858	14.860	(1.007)	69657	2.68933	77.24
	62 Carbazole	167	15.158	15.154	(1.027)	32748	1.40947	40.48(M)
	63 Di-n-butylphthalate	149	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64	Fluoranthene	202	16.771	16.704	(1.136)	826827	32.1561	923.6
65	Pyrene	202	17.081	17.051	(0.897)	845938	26.1982	752.5
$ 66	Terphenyl-d14	244	17.407	17.393	(0.914)	313727	13.9241	399.9
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	19.015	19.006	(0.999)	440068	14.5583	418.1
* 69	Chrysene-d12	240	19.041	19.033	(1.000)	426300	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	19.079	19.070	(1.002)	501467	17.6679	507.5
72	bis(2-Ethylhexyl)phthalate	149	19.308	19.305	(0.954)	23975	1.13318 B	32.55(M)
* 134	Di-n-octylphthalate-d4	153	20.243	20.235	(1.000)	903187	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	20.671	20.651	(0.976)	506936	17.2764	496.2
75	Benzo(k)fluoranthene	252	20.681	20.683	(0.976)	450329	14.7728	424.3(M)
76	Benzo(a)pyrene	252	21.103	21.089	(0.996)	517362	19.2466	552.8
* 77	Perylene-d12	264	21.184	21.164	(1.000)	490623	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.551	22.532	(1.065)	373309	10.5107	301.9
79	Dibenzo(a,h)anthracene	278	22.567	22.559	(1.065)	74492	2.56547	73.69(M)
80	Benzo(g,h,i)perylene	276	22.888	22.874	(1.080)	353630	11.3142	325.0
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	10.879	10.886	(1.137)	9082	0.55998 LDL	16.08
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82i.d
Lab Smp Id: JT82I
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15223

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-02-H
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	149033	0.38
27 Naphthalene-d8	567893	283946	1135786	566871	-0.18
42 Acenaphthene-d10	303756	151878	607512	297166	-2.17
59 Phenanthrene-d10	446635	223318	893270	447532	0.20
69 Chrysene-d12	372366	186183	744732	426300	14.48
134 Di-n-octylphthala	790006	395003	1580012	903187	14.33
77 Perylene-d12	411060	205530	822120	490623	19.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.53	-0.03
27 Naphthalene-d8	9.57	9.07	10.07	9.56	-0.08
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	-0.02
59 Phenanthrene-d10	14.75	14.25	15.25	14.76	0.02
69 Chrysene-d12	19.03	18.53	19.53	19.04	0.05
134 Di-n-octylphthala	20.23	19.73	20.73	20.24	0.04
77 Perylene-d12	21.16	20.66	21.66	21.18	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060905.b/jt82i.d
Report Date: 06-Sep-2006 10:48

Analytical Resources, Inc.

RECOVERY REPORT

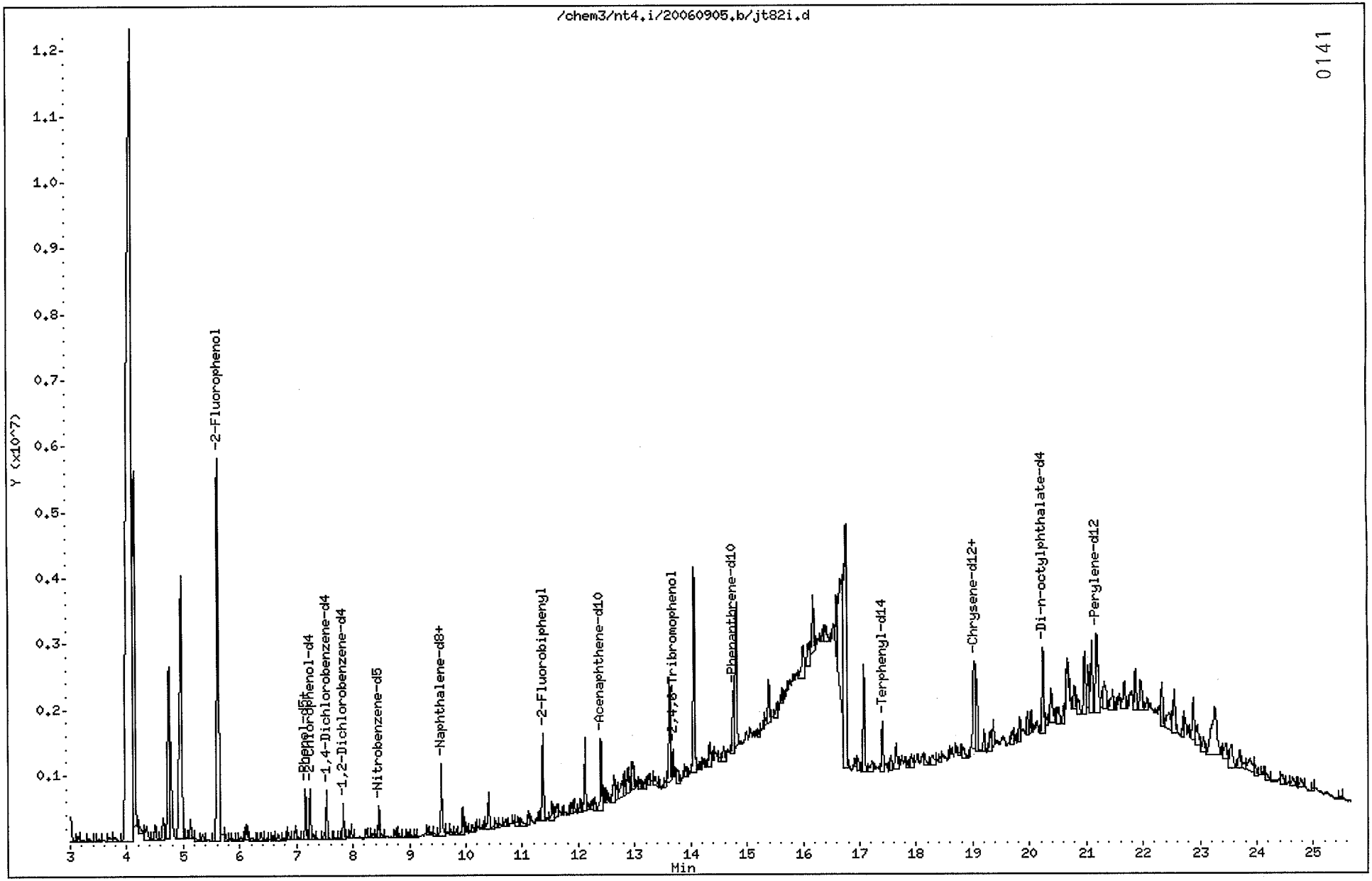
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82I
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15223

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-H
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$	1 2-Fluorophenol	1077	735.5	68.29	22-91
$	2 Phenol-d5	1077	689.0	63.97	26-99
$	5 2-Chlorophenol-d4	1077	674.7	62.64	29-96
$	10 1,2-Dichlorobenzen	718.1	405.2	56.42	24-87
$	18 Nitrobenzene-d5	718.1	443.8	61.80	27-101
$	36 2-Fluorobiphenyl	718.1	444.1	61.85	30-100
$	55 2,4,6-Tribromophen	1077	657.8	61.07	20-114
$	66 Terphenyl-d14	718.1	399.9	55.70	12-120

Data File: /chem3/nt4.i/20060905.b/jt82i.d
Date : 06-SEP-2006 00:11
Client ID: T4-S3-02-H
Sample Info: JT82I
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



Data File: /chem3/nt4.i/20060905.b/jt82i.d

Date : 06-SEP-2006 00:11

Client ID: T4-S3-02-H

Instrument: nt4.i

Sample Info: JT82I

Volume Injected (uL): 1.0

Operator: VTS

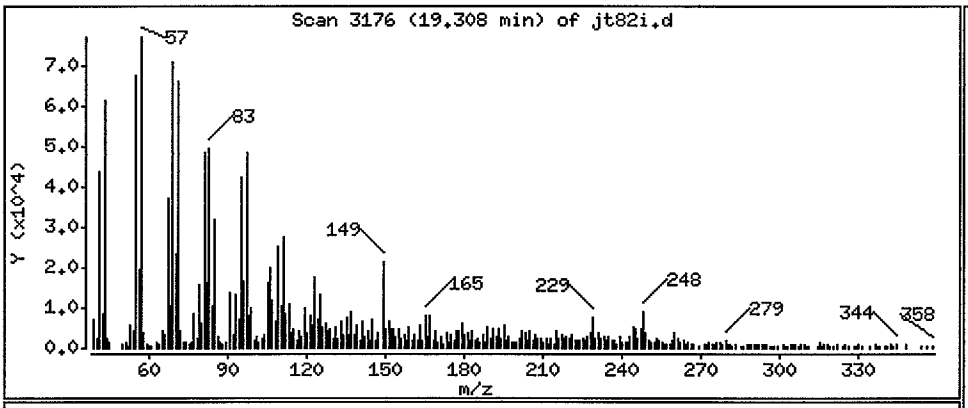
Column phase: ZB-5

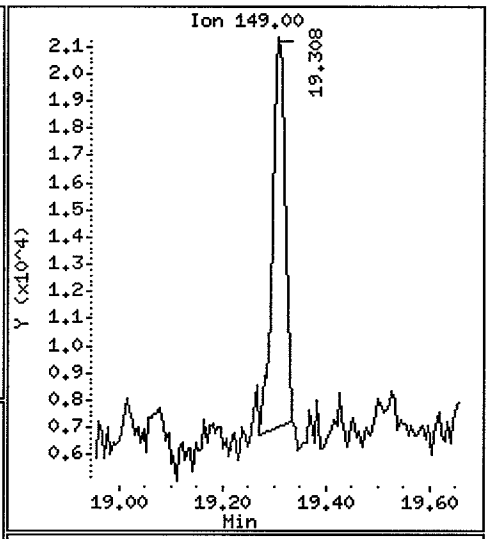
Column diameter: 0.32

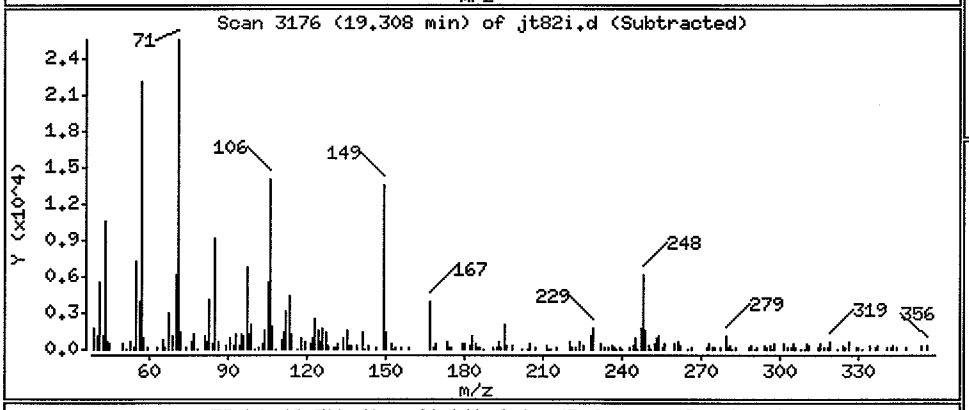
72 bis(2-Ethylhexyl)phthalate

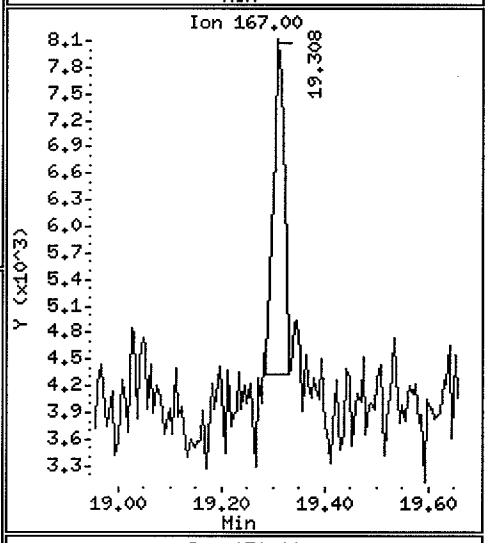
Concentration: 32.55 ug/kg

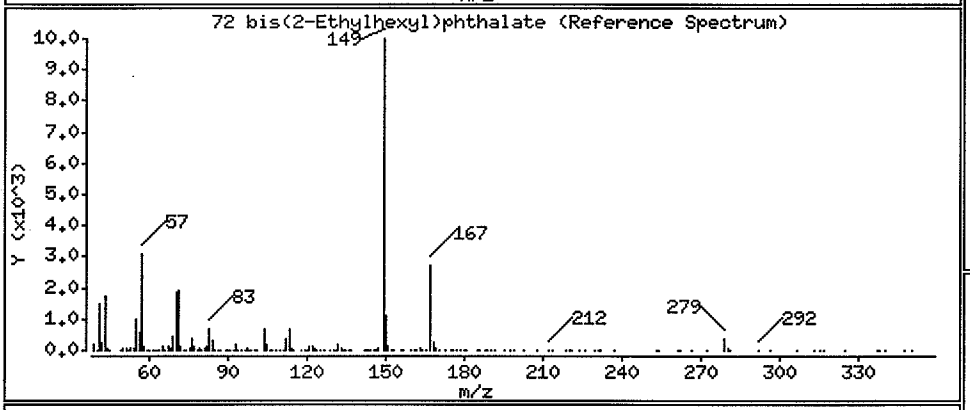
B

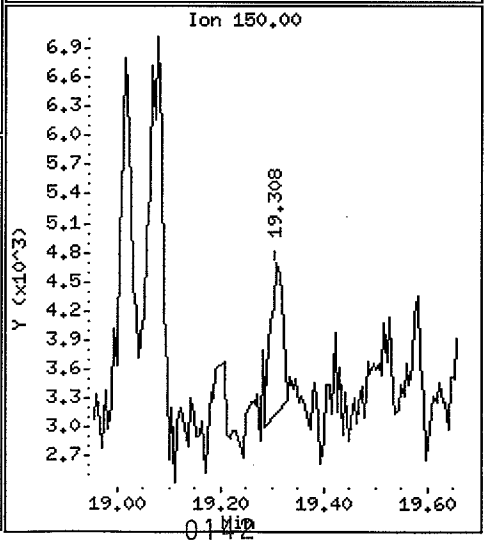


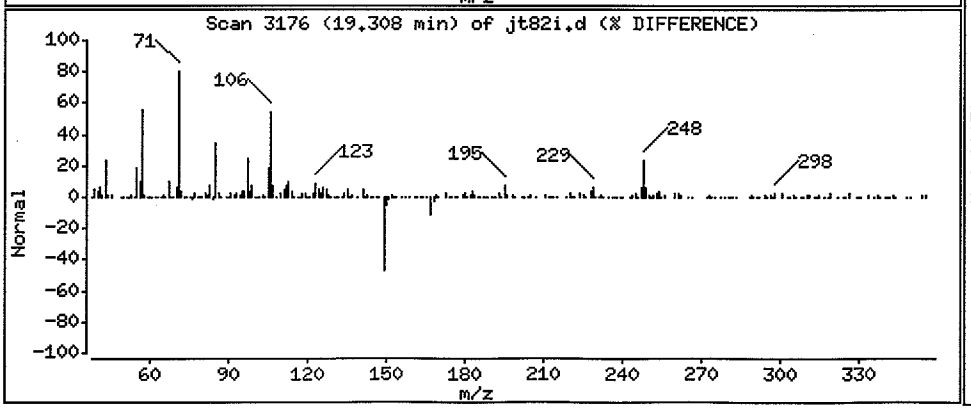












Semivolatile Organics
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Instrument ID: NT4 Calibration Date: 08/15/06

LAB FILE ID: RRF1 =0010815 RRF5 =0050815 RRF10 =0100815
RRF25 =0250815 RRF40 =0400815 RRF80 =0800815

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	$\overline{RRF}$	%RSD /R^2	
Phenol	2.027	2.393	2.276	2.426	2.318	2.508	2.325	7.2	*
Bis(2-Chloroethyl)ether	1.611	1.732	1.580	1.660	1.576	1.627	1.631	3.6	
2-Chlorophenol	1.298	1.424	1.414	1.471	1.386	1.440	1.406	4.3	
1,3-Dichlorobenzene	1.481	1.586	1.434	1.526	1.441	1.490	1.493	3.8	
1,4-Dichlorobenzene	1.553	1.597	1.469	1.574	1.480	1.540	1.536	3.3	*
1,2-Dichlorobenzene	1.389	1.504	1.362	1.453	1.371	1.438	1.420	3.9	
Benzyl alcohol	0.922	1.116	1.022	1.105	1.057	1.114	1.056	7.1	
2,2'-oxybis(1-Chloropropane)	1.215	1.324	1.248	1.366	1.298	1.380	1.305	5.0	
2-Methylphenol	1.214	1.420	1.345	1.435	1.357	1.428	1.366	6.1	
Hexachloroethane	0.624	0.674	0.608	0.667	0.637	0.664	0.646	4.1	
N-Nitroso-di-n-propylamine	1.239	1.452	1.330	1.425	1.353	1.407	1.368	5.7	~
4-Methylphenol	1.111	1.450	1.422	1.502	1.426	1.507	1.403	10.5	
Nitrobenzene	0.574	0.616	0.550	0.578	0.547	0.559	0.571	4.5	
Isophorone	0.837	0.935	0.855	0.925	0.885	0.905	0.890	4.4	
2-Nitrophenol		0.198	0.197	0.202	0.192	0.200	0.198	1.9	*
2,4-Dimethylphenol	0.318	0.431	0.429	0.438	0.417	0.427	0.410	11.2	
Bis(2-Chloroethoxy)methane	0.454	0.520	0.478	0.518	0.495	0.509	0.496	5.2	
2,4-Dichlorophenol		0.253	0.259	0.279	0.262	0.278	0.266	4.3	*
1,2,4-Trichlorobenzene	0.296	0.324	0.285	0.309	0.291	0.299	0.301	4.6	
Naphthalene	1.074	1.140	1.010	1.075	1.031	1.096	1.071	4.3	
Benzoic acid		0.194	0.243	0.277	0.302	0.319	0.267	18.7	
4-Chloroaniline		0.440	0.423	0.445	0.416	0.446	0.434	3.1	
Hexachlorobutadiene	0.177	0.183	0.166	0.174	0.165	0.170	0.172	4.1	*
4-Chloro-3-methylphenol		0.353	0.349	0.354	0.343	0.360	0.352	1.8	*
2-Methylnaphthalene	0.546	0.602	0.551	0.569	0.537	0.568	0.562	4.1	
Hexachlorocyclopentadiene		0.220	0.224	0.294	0.289	0.317	0.269	16.4	~
2,4,6-Trichlorophenol		0.333	0.340	0.356	0.340	0.363	0.346	3.6	*
2,4,5-Trichlorophenol		0.346	0.365	0.372	0.369	0.372	0.365	3.0	
2-Chloronaphthalene	1.132	1.228	1.107	1.168	1.104	1.132	1.145	4.1	
2-Nitroaniline		0.507	0.482	0.504	0.487	0.508	0.498	2.4	
Acenaphthylene	1.822	1.959	1.757	1.870	1.781	1.857	1.841	3.9	
Dimethylphthalate	1.270	1.342	1.187	1.273	1.194	1.224	1.248	4.7	
2,6-Dinitrotoluene		0.295	0.274	0.303	0.292	0.316	0.296	5.2	
Acenaphthene	1.202	1.244	1.100	1.173	1.101	1.154	1.162	4.9	*
3-Nitroaniline		0.333	0.308	0.320	0.313	0.335	0.322	3.7	
2,4-Dinitrophenol		0.035	0.062	0.089	0.126	0.160	0.094	52.5	~
Dibenzofuran	1.625	1.666	1.470	1.532	1.432	1.501	1.538	5.9	

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-1

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Instrument ID: NT4 Calibration Date: 08/15/06

LAB FILE ID: RRF1 =0010815 RRF5 =0050815 RRF10 =0100815
RRF25 =0250815 RRF40 =0400815 RRF80 =0800815

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	$\overline{RRF}$	%RSD /R^2	
4-Nitrophenol		0.197	0.191	0.219	0.220	0.228	0.211	7.5	~
2,4-Dinitrotoluene		0.378	0.349	0.380	0.369	0.383	0.372	3.7	
Fluorene	1.269	1.347	1.203	1.265	1.243	1.354	1.280	4.6	
4-Chlorophenyl-phenylether	0.596	0.645	0.561	0.600	0.570	0.634	0.601	5.6	
Diethylphthalate	1.248	1.337	1.183	1.274	1.212	1.240	1.249	4.3	
4-Nitroaniline		0.300	0.264	0.298	0.284	0.306	0.290	5.9	
4,6-Dinitro-2-methylphenol		0.098	0.125	0.135	0.149	0.160	0.133	17.8	
N-Nitrosodiphenylamine (1)	0.375	0.427	0.381	0.403	0.382	0.397	0.394	4.8	
4-Bromophenyl-phenylether	0.217	0.250	0.221	0.232	0.215	0.222	0.226	5.9	
Hexachlorobenzene	0.235	0.255	0.224	0.230	0.214	0.215	0.229	6.8	
Pentachlorophenol		0.128	0.139	0.149	0.148	0.154	0.144	7.2	*
Phenanthrene	1.199	1.266	1.116	1.169	1.114	1.149	1.169	4.9	
Anthracene	1.155	1.237	1.111	1.184	1.114	1.143	1.157	4.1	
Carbazole	1.075	1.117	0.995	1.032	0.975	1.036	1.038	5.0	
Di-n-butylphthalate	1.265	1.374	1.252	1.351	1.280	1.301	1.304	3.7	
Fluoranthene	1.162	1.228	1.086	1.167	1.110	1.141	1.149	4.3	*
Pyrene	1.489	1.631	1.451	1.572	1.452	1.494	1.515	4.7	
Butylbenzylphthalate	0.621	0.739	0.667	0.755	0.695	0.729	0.701	7.2	
Benzo(a)anthracene	1.427	1.491	1.327	1.420	1.346	1.498	1.418	5.0	
3,3'-Dichlorobenzidine		0.517	0.459	0.475	0.432	0.499	0.476	7.0	
Chrysene	1.414	1.415	1.258	1.339	1.247	1.315	1.331	5.5	
bis(2-Ethylhexyl)phthalate	0.425	0.493	0.454	0.491	0.468	0.480	0.468	5.5	
Di-n-octylphthalate	0.947	0.919	0.828	0.877	0.834	0.847	0.875	5.6	*
Benzo(b)fluoranthene	1.203	1.233	1.092	1.161	1.191	1.296	1.196	5.7	
Benzo(k)fluoranthene	1.302	1.374	1.193	1.294	1.122	1.171	1.243	7.7	
Benzo(a)pyrene	1.074	1.167	1.038	1.115	1.062	1.118	1.096	4.2	*
Indeno(1,2,3-cd)pyrene	1.346	1.546	1.394	1.488	1.422	1.492	1.448	5.1	
Dibenzo(a,h)anthracene	1.046	1.247	1.160	1.241	1.150	1.258	1.184	6.9	
Benzo(g,h,i)perylene	1.208	1.371	1.225	1.322	1.256	1.263	1.274	4.8	
N-Nitrosodimethylamine		1.106	1.040	1.167	1.117	1.147	1.115	4.4	
Aniline		2.805	2.533	2.755	2.606	2.803	2.700	4.6	
Benzidine		0.717	0.561	0.590	0.474	0.567	0.582	15.0	
Pyridine		1.968	1.855	2.067	1.884	1.994	1.954	4.4	
1-methylnaphthalene	0.573	0.615	0.543	0.577	0.548	0.577	0.572	4.5	
Azobenzene (1,2-DP-Hydrazine	1.978	2.028	1.834	1.946	1.849	1.848	1.914	4.2	
2-Fluorophenol		1.591	1.543	1.647	1.575	1.621	1.595	2.5	

(1) Cannot be seperated from Diphenylamine
* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

6C

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Instrument ID: NT4 Calibration Date: 08/15/06

LAB FILE ID: RRF1 =0010815 RRF5 =0050815 RRF10 =0100815
RRF25 =0250815 RRF40 =0400815 RRF80 =0800815

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	$\overline{RRF}$	%RSD /R^2
Phenol-d5		1.888	1.856	1.975	1.887	2.030	1.927	3.8
2-Chlorophenol-d4		1.575	1.526	1.588	1.521	1.552	1.552	1.9
1,2-Dichlorobenzene-d4		0.960	0.924	0.955	0.904	0.942	0.937	2.4
Nitrobenzene-d5		0.608	0.567	0.582	0.558	0.567	0.576	3.4
2-Fluorobiphenyl		1.449	1.365	1.370	1.308	1.336	1.366	3.9
2,4,6-Tribromophenol		0.174	0.163	0.168	0.161	0.163	0.166	3.1
Terphenyl-d14		1.097	1.026	1.085	1.020	1.057	1.057	3.2

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-3

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-AUG-2006 08:55
End Cal Date : 15-AUG-2006 11:40
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20060815.b/SW846.m
Cal Date : 16-Aug-2006 11:59 jeff
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt4.i/20060815.b/0010815.d
Level 2: /chem3/nt4.i/20060815.b/0050815.d
Level 3: /chem3/nt4.i/20060815.b/0100815.d
Level 4: /chem3/nt4.i/20060815.b/0250815.d
Level 5: /chem3/nt4.i/20060815.b/0400815.d
Level 6: /chem3/nt4.i/20060815.b/0800815.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
133 Butylatedhydroxytoluene	1.02014	1.08260	0.97230	1.04701	0.96186	1.03823	1.02036	4.520	
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

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Quant Method : ISTD
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20060815.b/SW846.m
Cal Date : 16-Aug-2006 11:59 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
144 alpha-Terpineol	0.23522	0.26232	0.25462	0.26293	0.25420	0.25823	0.25459	3.998	
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
143 1,4-Dioxane	0.61519	0.65637	0.61408	0.67382	0.63344	0.65074	0.64061	3.731	
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
118 Triphenyl Phosphate	0.21786	0.23980	0.23481	0.24797	0.22050	0.22583	0.23113	5.080	
117 Butyl Diphenyl Phosphate	0.31669	0.38710	0.37362	0.42045	0.39452	0.41782	0.38503	9.873	
116 Dibutyl Phenyl Phosphate	0.73350	0.82740	0.78462	0.83449	0.78533	0.82705	0.79873	4.860	
115 Tributyl Phosphate	1.06563	1.23517	1.15048	1.23164	1.14767	1.18931	1.16998	5.431	
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.97782	2.02814	1.83428	1.94599	1.84922	1.84857	1.91400	4.242	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
107 4,5-Dichloro-2-Methoxyphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
105 1-methylnaphthalene	0.57271	0.61475	0.54296	0.57713	0.54822	0.57746	0.57221	4.485	
3 Phenol	2.02722	2.39277	2.27580	2.42652	2.31816	2.50790	2.32473	7.185	
4 Bis(2-Chloroethyl)ether	1.61091	1.73174	1.58040	1.65981	1.57629	1.62679	1.63099	3.570	
6 2-Chlorophenol	1.29768	1.42414	1.41427	1.47085	1.38572	1.43979	1.40541	4.256	
7 1,3-Dichlorobenzene	1.48140	1.58588	1.43428	1.52657	1.44090	1.49053	1.49326	3.795	
9 1,4-Dichlorobenzene	1.55307	1.59708	1.46934	1.57415	1.48054	1.54041	1.53576	3.322	
11 Benzyl alcohol	0.92236	1.11626	1.02252	1.10486	1.05721	1.11388	1.05618	7.129	

Analytical Resources, Inc.

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Integrator : HP RTE
Method file : /chem3/nt4.i/20060815.b/SW846.m
Cal Date : 16-Aug-2006 11:59 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
12 1,2-Dichlorobenzene	1.38924	1.50381	1.36177	1.45341	1.37139	1.43799	1.41960	3.879	
13 2-Methylphenol	1.21401	1.41993	1.34473	1.43517	1.35679	1.42847	1.36651	6.143	
14 2,2'-oxybis(1-Chloropropane)	1.21510	1.32455	1.24838	1.36630	1.29845	1.37983	1.30543	4.973	
15 4-Methylphenol	1.11129	1.45019	1.42245	1.50190	1.42611	1.50720	1.40319	10.516	
16 N-Nitroso-di-n-propylamine	1.23887	1.45158	1.33048	1.42549	1.35309	1.40668	1.36770	5.672	
17 Hexachloroethane	0.62416	0.67460	0.60798	0.66694	0.63722	0.66364	0.64576	4.136	
19 Nitrobenzene	0.57401	0.61576	0.54992	0.57848	0.54682	0.55915	0.57069	4.458	
20 Isophorone	0.83673	0.93543	0.85478	0.92501	0.88528	0.90509	0.89039	4.384	
21 2-Nitrophenol	+++++	0.19754	0.19729	0.20156	0.19173	0.20041	0.19771	1.928	
22 2,4-Dimethylphenol	0.31750	0.43121	0.42860	0.43806	0.41682	0.42693	0.40985	11.166	
23 Bis(2-Chloroethoxy)methane	0.45381	0.52043	0.47786	0.51753	0.49536	0.50908	0.49568	5.215	
24 Benzoic acid	+++++	0.19414	0.24299	0.27669	0.30193	0.31919	0.26699	18.655	**
25 2,4-Dichlorophenol	+++++	0.25284	0.25915	0.27875	0.26251	0.27761	0.26617	4.323	
26 1,2,4-Trichlorobenzene	0.29631	0.32365	0.28550	0.30921	0.29097	0.29934	0.30083	4.572	
28 Naphthalene	1.07448	1.13967	1.01050	1.07544	1.03088	1.09557	1.07109	4.303	
29 4-Chloroaniline	+++++	0.44059	0.42305	0.44493	0.41633	0.44634	0.43425	3.147	
30 Hexachlorobutadiene	0.17736	0.18321	0.16628	0.17436	0.16473	0.16983	0.17263	4.079	
31 4-Chloro-3-methylphenol	+++++	0.35330	0.34878	0.35397	0.34280	0.36011	0.35179	1.831	
32 2-Methylnaphthalene	0.54565	0.60171	0.55073	0.56887	0.53729	0.56860	0.56214	4.113	
33 Hexachlorocyclopentadiene	+++++	0.22000	0.22391	0.29414	0.28938	0.31700	0.26888	16.407	**
34 2,4,6-Trichlorophenol	+++++	0.33288	0.34052	0.35592	0.33999	0.36302	0.34647	3.609	
35 2,4,5-Trichlorophenol	+++++	0.34551	0.36540	0.37165	0.36867	0.37176	0.36460	3.012	
37 2-Chloronaphthalene	1.13182	1.22810	1.10696	1.16857	1.10362	1.13228	1.14523	4.087	
38 2-Nitroaniline	+++++	0.50667	0.48237	0.50359	0.48677	0.50839	0.49756	2.428	
39 Dimethylphthalate	1.27053	1.34150	1.18693	1.27262	1.19429	1.22424	1.24835	4.676	
40 Acenaphthylene	1.82184	1.95894	1.75676	1.86976	1.78134	1.85699	1.84094	3.918	
41 2,6-Dinitrotoluene	+++++	0.29546	0.27410	0.30266	0.29172	0.31613	0.29602	5.200	
43 3-Nitroaniline	+++++	0.33271	0.30842	0.31963	0.31271	0.33487	0.32167	3.666	
44 Acenaphthene	1.20243	1.24456	1.09978	1.17261	1.10111	1.15405	1.16242	4.898	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 15-AUG-2006 11:40
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20060815.b/SW846.m
Cal Date : 16-Aug-2006 11:59 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
45 2,4-Dinitrophenol	+++++	0.03540	0.06202	0.08942	0.12581	0.16000	0.09453	52.478	<- PP
46 Dibenzofuran	1.62543	1.66587	1.46964	1.53205	1.43230	1.50088	1.53770	5.907	
47 4-Nitrophenol	+++++	0.19669	0.19139	0.21892	0.21962	0.22766	0.21086	7.512	
48 2,4-Dinitrotoluene	+++++	0.37786	0.34935	0.37982	0.36876	0.38329	0.37181	3.673	
49 Fluorene	1.26880	1.34661	1.20330	1.26478	1.24279	1.35418	1.28008	4.630	
50 Diethylphthalate	1.24781	1.33673	1.18318	1.27425	1.21171	1.24037	1.24901	4.257	
51 4-Chlorophenyl-phenylether	0.59573	0.64523	0.56125	0.60044	0.56976	0.63422	0.60110	5.589	
52 4-Nitroaniline	+++++	0.30029	0.26364	0.29823	0.28434	0.30615	0.29053	5.862	
53 4,6-Dinitro-2-methylphenol	+++++	0.09827	0.12489	0.13483	0.14880	0.16003	0.13337	17.801	PP
54 N-Nitrosodiphenylamine	0.37513	0.42682	0.38118	0.40289	0.38215	0.39680	0.39416	4.847	
56 4-Bromophenyl-phenylether	0.21697	0.25041	0.22121	0.23186	0.21464	0.22190	0.22617	5.867	
57 Hexachlorobenzene	0.23487	0.25550	0.22439	0.22953	0.21353	0.21470	0.22875	6.776	
58 Pentachlorophenol	+++++	0.12777	0.13949	0.14926	0.14767	0.15403	0.14364	7.174	
60 Phenanthrene	1.19869	1.26632	1.11603	1.16889	1.11360	1.14873	1.16871	4.936	
61 Anthracene	1.15476	1.23665	1.11149	1.18442	1.11444	1.14332	1.15752	4.083	
62 Carbazole	1.07505	1.11714	0.99488	1.03224	0.97501	1.03567	1.03833	5.004	
63 Di-n-butylphthalate	1.26541	1.37353	1.25219	1.35141	1.28039	1.30148	1.30407	3.728	
64 Fluoranthene	1.16170	1.22797	1.08657	1.16737	1.10958	1.14141	1.14910	4.307	
65 Pyrene	1.48864	1.63105	1.45111	1.57199	1.45195	1.49460	1.51489	4.750	
67 Butylbenzylphthalate	0.62085	0.73928	0.66685	0.75462	0.69528	0.72897	0.70098	7.203	
68 Benzo(a)anthracene	1.42705	1.49098	1.32681	1.41984	1.34580	1.49847	1.41816	5.027	
70 3,3'-Dichlorobenzidine	+++++	0.51749	0.45911	0.47480	0.43158	0.49861	0.47632	7.036	
71 Chrysene	1.41447	1.41495	1.25844	1.33919	1.24706	1.31545	1.33159	5.481	
72 bis(2-Ethylhexyl)phthalate	0.42518	0.49295	0.45373	0.49083	0.46859	0.47974	0.46850	5.498	
73 Di-n-octylphthalate	0.94662	0.91948	0.82784	0.87697	0.83387	0.84691	0.87528	5.554	
74 Benzo(b)fluoranthene	1.20335	1.23263	1.09240	1.16120	1.19093	1.29633	1.19614	5.723	
75 Benzo(k)fluoranthene	1.30207	1.37410	1.19270	1.29460	1.12180	1.17062	1.24265	7.702	
76 Benzo(a)pyrene	1.07402	1.16714	1.03828	1.11464	1.06258	1.11799	1.09578	4.246	
78 Indeno(1,2,3-cd)pyrene	1.34558	1.54619	1.39390	1.48760	1.42200	1.49177	1.44784	5.096	

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Curve Type : Average

	Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
	79 Dibenzo(a,h)anthracene	1.04554	1.24680	1.15996	1.24128	1.14975	1.25858	1.18365	6.937	
	80 Benzo(g,h,i)perylene	1.20802	1.37133	1.22466	1.32243	1.25562	1.26263	1.27411	4.847	
	90 N-Nitrosodimethylamine	+++++	1.10654	1.04015	1.16741	1.11726	1.14689	1.11565	4.355	
	91 Aniline	+++++	2.80533	2.53313	2.75466	2.60644	2.80309	2.70053	4.584	
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	93 Benzidine	+++++	0.71704	0.56148	0.58999	0.47446	0.56697	0.58199	15.006	PP
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	98 Retene	0.61401	0.71367	0.67613	0.72535	0.67020	0.70989	0.68488	5.987	
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	103 Pyridine	+++++	1.96823	1.85530	2.06723	1.88395	1.99365	1.95367	4.377	
$	1 2-Fluorophenol	+++++	1.59064	1.54321	1.64722	1.57467	1.62127	1.59540	2.533	
$	137 d8-1,4-Dioxane	+++++	0.64602	0.59338	0.65345	0.61745	0.62697	0.62746	3.807	
$	2 Phenol-d5	+++++	1.88818	1.85571	1.97475	1.88675	2.03059	1.92720	3.779	
$	5 2-Chlorophenol-d4	+++++	1.57526	1.52591	1.58770	1.52128	1.55251	1.55253	1.889	
$	10 1,2-Dichlorobenzene-d4	+++++	0.95972	0.92429	0.95484	0.90455	0.94197	0.93707	2.430	
$	18 Nitrobenzene-d5	+++++	0.60768	0.56718	0.58258	0.55840	0.56706	0.57658	3.373	
$	36 2-Fluorobiphenyl	+++++	1.44923	1.36499	1.36986	1.30751	1.33598	1.36552	3.886	
$	55 2,4,6-Tribromophenol	+++++	0.17417	0.16343	0.16855	0.16139	0.16327	0.16616	3.133	
$	66 Terphenyl-d14	+++++	1.09715	1.02644	1.08463	1.01996	1.05713	1.05706	3.236	
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$	88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060815.b/0010815.d
Lab Smp Id: ABN 1 Client Smp ID: ABN1
Inj Date : 15-AUG-2006 10:01
Operator : VTS Inst ID: nt4.i
Smp Info : ABN 1
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060815.b/SW846.m
Meth Date : 16-Aug-2006 11:59 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJK 8/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.633	6.640	(0.772)	11530	1.00000	0.8764
$	2 Phenol-d5	99	8.107	8.136	(0.944)	13365	1.00000	0.8410
	3 Phenol	94	8.123	8.157	(0.946)	16717	1.00000	0.8720
$	5 2-Chlorophenol-d4	132	8.278	8.296	(0.964)	11528	1.00000	0.9004
	4 Bis(2-Chloroethyl)ether	93	8.241	8.264	(0.960)	13284	1.00000	0.9877
	6 2-Chlorophenol	128	8.305	8.317	(0.967)	10701	1.00000	0.9233
	7 1,3-Dichlorobenzene	146	8.524	8.536	(0.993)	12216	1.00000	0.9921
*	8 1,4-Dichlorobenzene-d4	152	8.588	8.595	(1.000)	164925	20.0000	
	9 1,4-Dichlorobenzene	146	8.615	8.622	(1.003)	12807	1.00000	1.011
$	10 1,2-Dichlorobenzene-d4	152	8.887	8.899	(1.035)	6996	1.00000	0.9054(M)
	12 1,2-Dichlorobenzene	146	8.909	8.921	(1.037)	11456	1.00000	0.9786
	11 Benzyl alcohol	108	8.844	8.867	(1.030)	7606	1.00000	0.8733
	14 2,2'-oxybis(1-Chloropropane)	45	9.112	9.119	(1.061)	10020	1.00000	0.9308
	13 2-Methylphenol	108	9.058	9.076	(1.055)	10011	1.00000	0.8884
	17 Hexachloroethane	117	9.400	9.402	(1.095)	5147	1.00000	0.9666
	16 N-Nitroso-di-n-propylamine	70	9.315	9.354	(1.085)	10216	1.00000	0.9058
	15 4-Methylphenol	108	9.283	9.311	(1.081)	9164	1.00000	0.7920
$	18 Nitrobenzene-d5	82	9.507	9.525	(0.894)	16995	1.00000	0.9823
	19 Nitrobenzene	77	9.534	9.557	(0.897)	17224	1.00000	1.006
	20 Isophorone	82	9.913	9.941	(0.933)	25107	1.00000	0.9397
	21 2-Nitrophenol	139	10.052	10.064	(0.946)	5044	1.00000	0.8502
	22 2,4-Dimethylphenol	107	10.127	10.150	(0.953)	9527	1.00000	0.7747
	23 Bis(2-Chloroethoxy)methane	93	10.287	10.304	(0.968)	13617	1.00000	0.9155
	24 Benzoic acid	105	10.217	10.470	(0.961)	3302	5.00000	0.4122(M)
	25 2,4-Dichlorophenol	162	10.420	10.443	(0.980)	5227	1.00000	0.6545
	26 1,2,4-Trichlorobenzene	180	10.565	10.577	(0.994)	8891	1.00000	0.9850
*	27 Naphthalene-d8	136	10.629	10.636	(1.000)	600124	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
28	Naphthalene	128	10.655	10.673	(1.002)	32241	1.00000	1.003
29	4-Chloroaniline	127	10.784	10.801	(1.015)	11459	1.00000	0.8794
30	Hexachlorobutadiene	225	10.971	10.978	(1.032)	5322	1.00000	1.027
31	4-Chloro-3-methylphenol	107	11.574	11.587	(1.089)	8405	1.00000	0.7962 (M)
32	2-Methylnaphthalene	141	11.777	11.790	(1.108)	16373	1.00000	0.9707
33	Hexachlorocyclopentadiene	237	12.151	12.164	(0.900)	1768	1.00000	0.4221
34	2,4,6-Trichlorophenol	196	12.280	12.292	(0.910)	3890	1.00000	0.7207
35	2,4,5-Trichlorophenol	196	12.344	12.351	(0.914)	4654	1.00000	0.8193
$ 36	2-Fluorobiphenyl	172	12.418	12.431	(0.920)	21089	1.00000	0.9913
37	2-Chloronaphthalene	162	12.563	12.575	(0.931)	17633	1.00000	0.9883
38	2-Nitroaniline	65	12.782	12.799	(0.947)	6586	1.00000	0.8496
39	Dimethylphthalate	163	13.145	13.168	(0.974)	19794	1.00000	1.018
40	Acenaphthylene	152	13.246	13.259	(0.981)	28383	1.00000	0.9896
41	2,6-Dinitrotoluene	165	13.246	13.264	(0.981)	3675	1.00000	0.7969
* 42	Acenaphthene-d10	164	13.498	13.510	(1.000)	311586	20.0000	
43	3-Nitroaniline	138	13.460	13.483	(0.997)	3887	1.00000	0.7756 (M)
44	Acenaphthene	153	13.551	13.563	(1.004)	18733	1.00000	1.034
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	13.807	13.825	(1.023)	25323	1.00000	1.057
47	4-Nitrophenol	109	13.759	13.772	(1.019)	808	1.00000	0.2460
48	2,4-Dinitrotoluene	165	13.877	13.900	(1.028)	4175	1.00000	0.7207
50	Diethylphthalate	149	14.299	14.322	(1.059)	19440	1.00000	0.9990
49	Fluorene	166	14.368	14.386	(1.064)	19767	1.00000	0.9912
51	4-Chlorophenyl-phenylether	204	14.384	14.397	(1.066)	9281	1.00000	0.9911
52	4-Nitroaniline	138	14.454	14.498	(1.071)	3127	1.00000	0.6909
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	14.582	14.605	(0.918)	8489	1.00000	0.9517
$ 55	2,4,6-Tribromophenol	330	14.796	14.813	(1.096)	1957	1.00000	0.7560
56	4-Bromophenyl-phenylether	248	15.170	15.182	(0.955)	4910	1.00000	0.9593
57	Hexachlorobenzene	284	15.405	15.417	(0.969)	5315	1.00000	1.027
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	15.891	15.898	(1.000)	452595	20.0000	
60	Phenanthrene	178	15.923	15.940	(1.002)	27126	1.00000	1.026
61	Anthracene	178	15.998	16.015	(1.007)	26132	1.00000	0.9976
62	Carbazole	167	16.270	16.288	(1.024)	24328	1.00000	1.035
63	Di-n-butylphthalate	149	16.965	16.977	(1.068)	28636	1.00000	0.9704
64	Fluoranthene	202	17.878	17.896	(1.125)	26289	1.00000	1.011
65	Pyrene	202	18.236	18.254	(0.901)	26150	1.00000	0.9827
$ 66	Terphenyl-d14	244	18.530	18.547	(0.916)	18560	1.00000	0.9995
67	Butylbenzylphthalate	149	19.401	19.418	(0.959)	10906	1.00000	0.8857
68	Benzo(a)anthracene	228	20.202	20.225	(0.999)	25068	1.00000	1.006
* 69	Chrysene-d12	240	20.229	20.246	(1.000)	351327	20.0000	
70	3,3'-Dichlorobenzidine	252	20.197	20.214	(0.998)	7266	1.00000	0.8684
71	Chrysene	228	20.271	20.294	(1.002)	24847	1.00000	1.062
72	bis(2-Ethylhexyl)phthalate	149	20.394	20.401	(0.956)	15209	1.00000	0.9075
* 134	Di-n-octylphthalate-d4	153	21.329	21.341	(1.000)	715410	20.0000	
73	Di-n-octylphthalate	149	21.340	21.347	(1.000)	33861	1.00000	1.082

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.869	21.897	(0.976)	24974	1.00000	1.006
75	Benzo(k)fluoranthene	252	21.901	21.934	(0.977)	27023	1.00000	1.048
76	Benzo(a)pyrene	252	22.323	22.351	(0.996)	22290	1.00000	0.9801
* 77	Perylene-d12	264	22.414	22.420	(1.000)	415076	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.171	24.221	(1.078)	27926	1.00000	0.9294 (M)
79	Dibenzo(a,h)anthracene	278	24.192	24.242	(1.079)	21699	1.00000	0.8833 (M)
80	Benzo(g,h,i)perylene	276	24.663	24.728	(1.100)	25071	1.00000	0.9481 (M)
90	N-Nitrosodimethylamine	74	4.181	4.193	(0.487)	8288	1.00000	0.9009
103	Pyridine	79	4.250	4.150	(0.495)	13381	1.00000	0.8306 (M)
91	Aniline	93	8.134	8.152	(0.947)	21345	1.00000	0.9585
105	1-methylnaphthalene	141	11.954	11.966	(1.125)	17185	1.00000	1.001
93	Benzidine	184	18.113	18.120	(0.895)	14786	1.00000	1.446
98	Retene	219	18.786	18.804	(0.929)	10786	1.00000	0.8965
111	Azobenzene (1,2-DP-Hydrazine)	77	14.635	14.653	(1.084)	30813	1.00000	1.033
144	alpha-Terpineol	59	10.666	10.684	(1.004)	7058	1.00000	0.9239
143	1,4-Dioxane	88	3.428	3.402	(0.399)	5073	1.00000	0.9603
$ 137	d8-1,4-Dioxane	96	3.363	3.338	(0.392)	5133	1.00000	0.9920
133	Butylatedhydroxytoluene	205	13.647	13.659	(1.011)	15893	1.00000	0.9998
115	Tributyl Phosphate	99	14.651	14.685	(0.922)	24115	1.00000	0.9108
116	Dibutyl Phenyl Phosphate	175	16.404	16.421	(1.032)	16599	1.00000	0.9183
117	Butyl Diphenyl Phosphate	94	18.108	18.120	(0.895)	5563	1.00000	0.8225
118	Triphenyl Phosphate	326	19.721	19.739	(0.975)	3827	1.00000	0.9426

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 0010815.d
Lab Smp Id: ABN 1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

Calibration Date: 15-AUG-2006
Calibration Time: 08:55
Client Smp ID: ABN1
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144618	72309	289236	164925	14.04
27 Naphthalene-d8	543038	271519	1086076	600124	10.51
42 Acenaphthene-d10	285517	142758	571034	311586	9.13
59 Phenanthrene-d10	409554	204777	819108	452595	10.51
69 Chrysene-d12	311119	155560	622238	351327	12.92
134 Di-n-octylphthala	651942	325971	1303884	715410	9.74
77 Perylene-d12	362847	181424	725694	415076	14.39

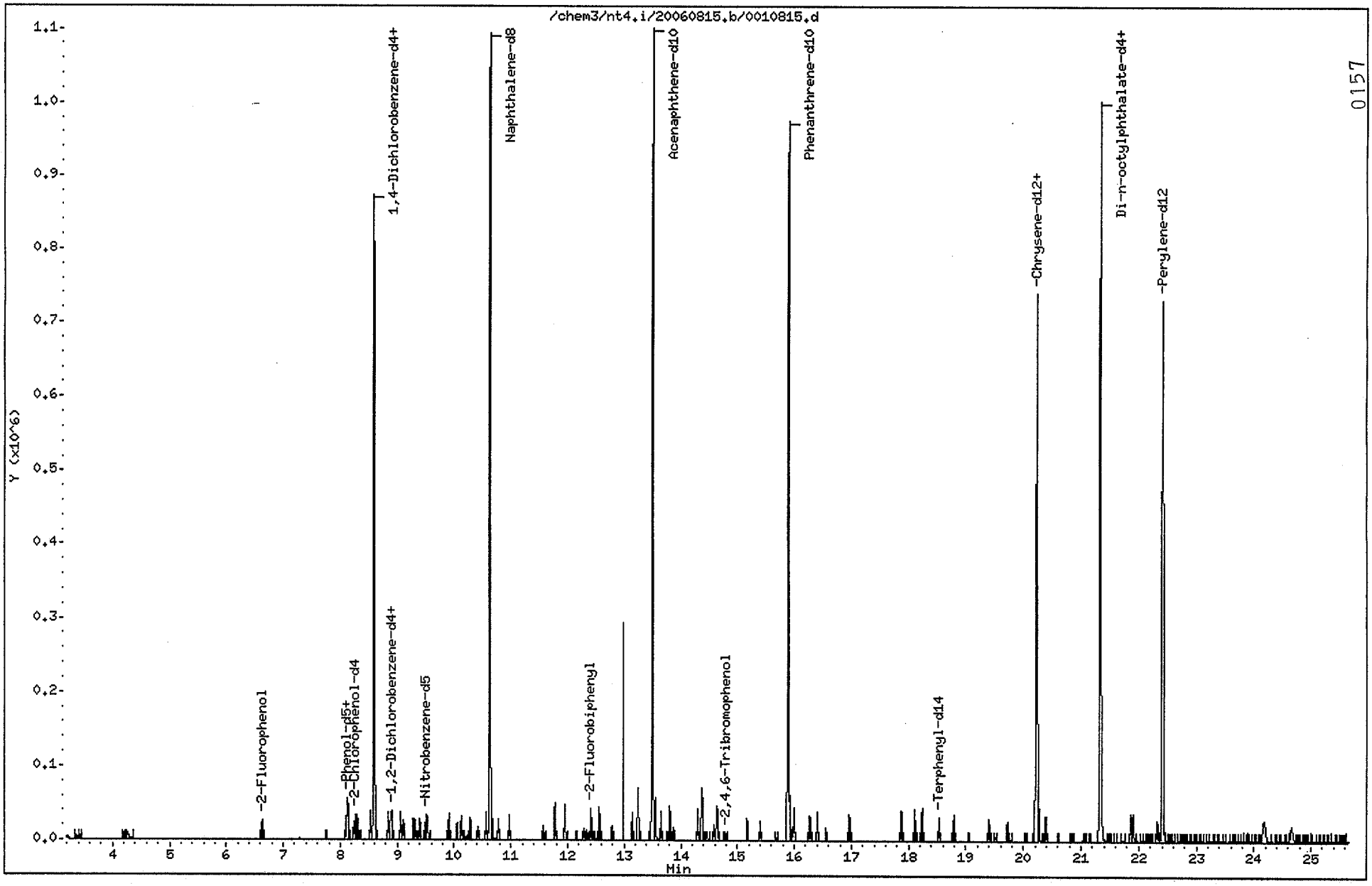
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.59	8.09	9.09	8.59	-0.01
27 Naphthalene-d8	10.63	10.13	11.13	10.63	-0.01
42 Acenaphthene-d10	13.50	13.00	14.00	13.50	-0.04
59 Phenanthrene-d10	15.89	15.39	16.39	15.89	0.00
69 Chrysene-d12	20.23	19.73	20.73	20.23	-0.03
134 Di-n-octylphthala	21.33	20.83	21.83	21.33	0.00
77 Perylene-d12	22.41	21.91	22.91	22.41	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060815.b/0010815.d
Date : 15-AUG-2006 10:01
Client ID: ABN1
Sample Info: ABN 1

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32

Column phase: ZB-5



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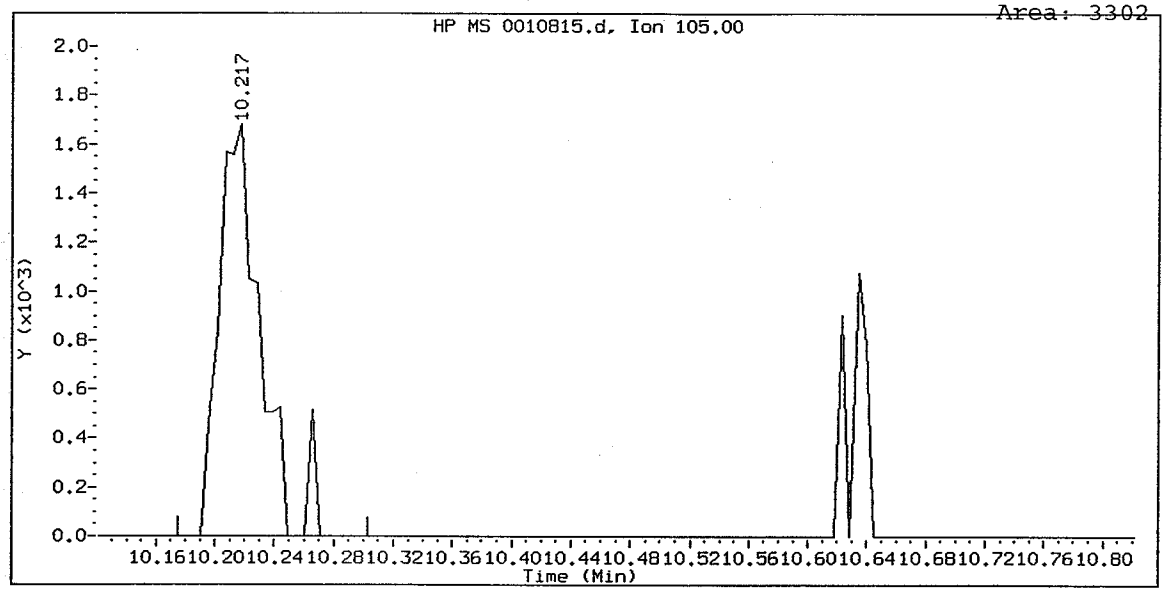
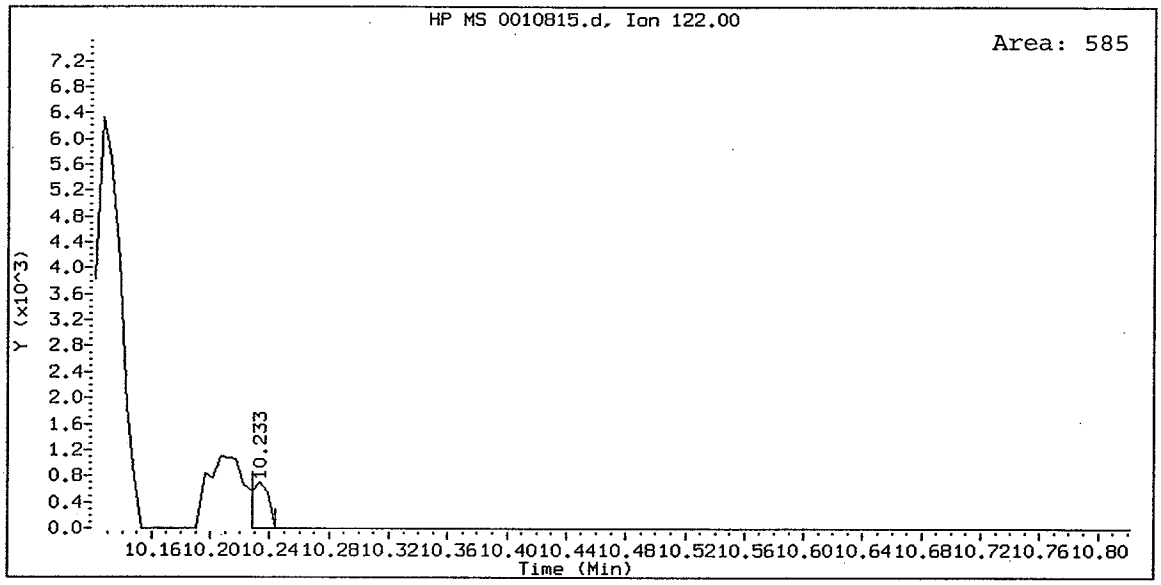
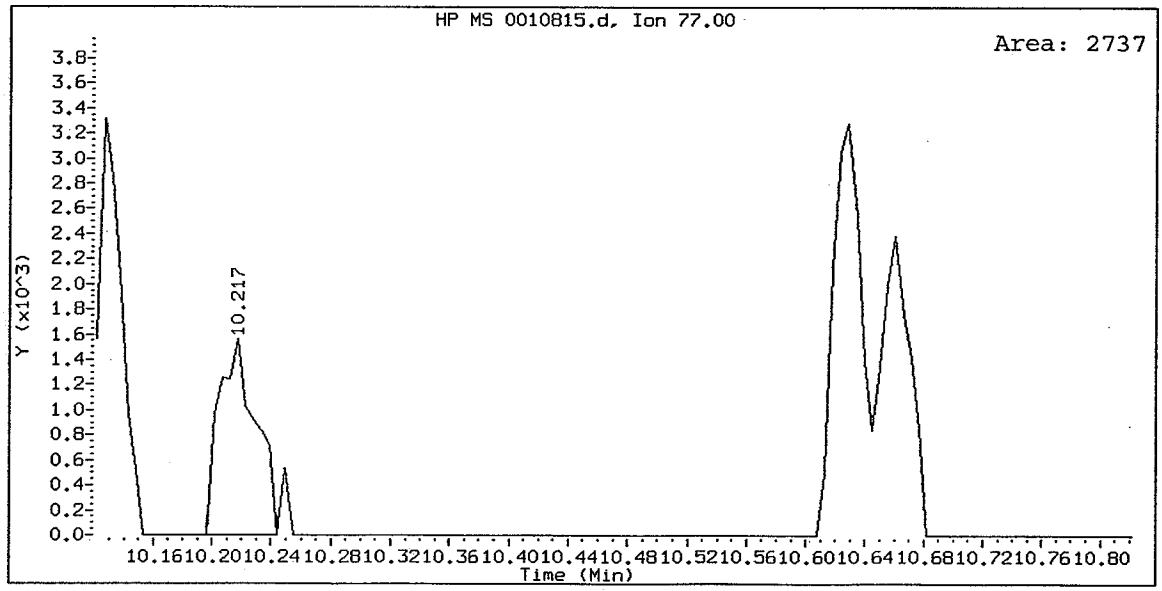
Benzoic acid Amount: 0.41







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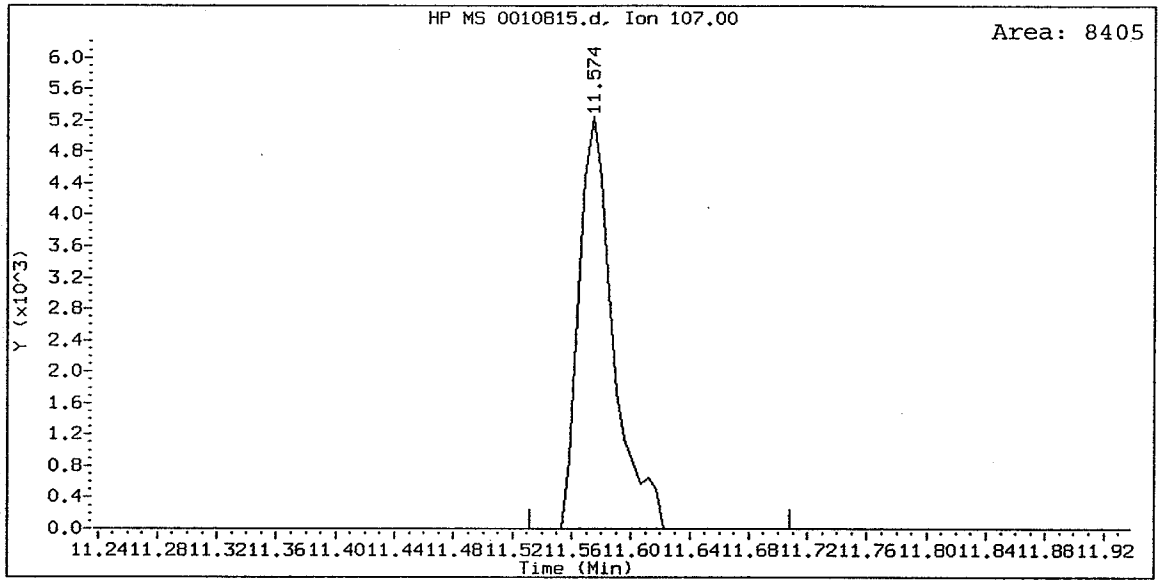
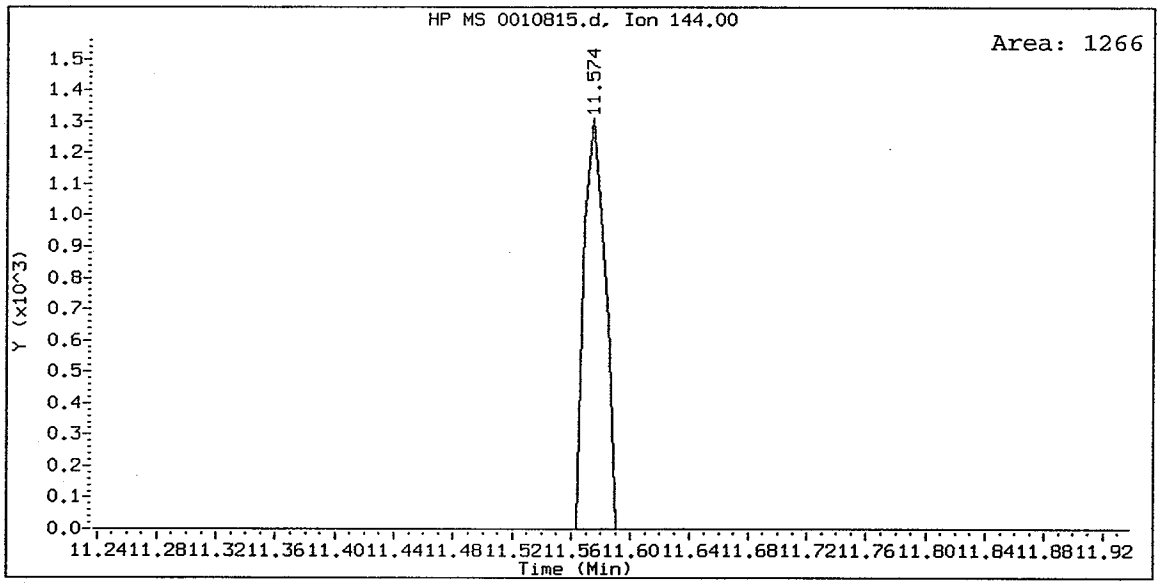
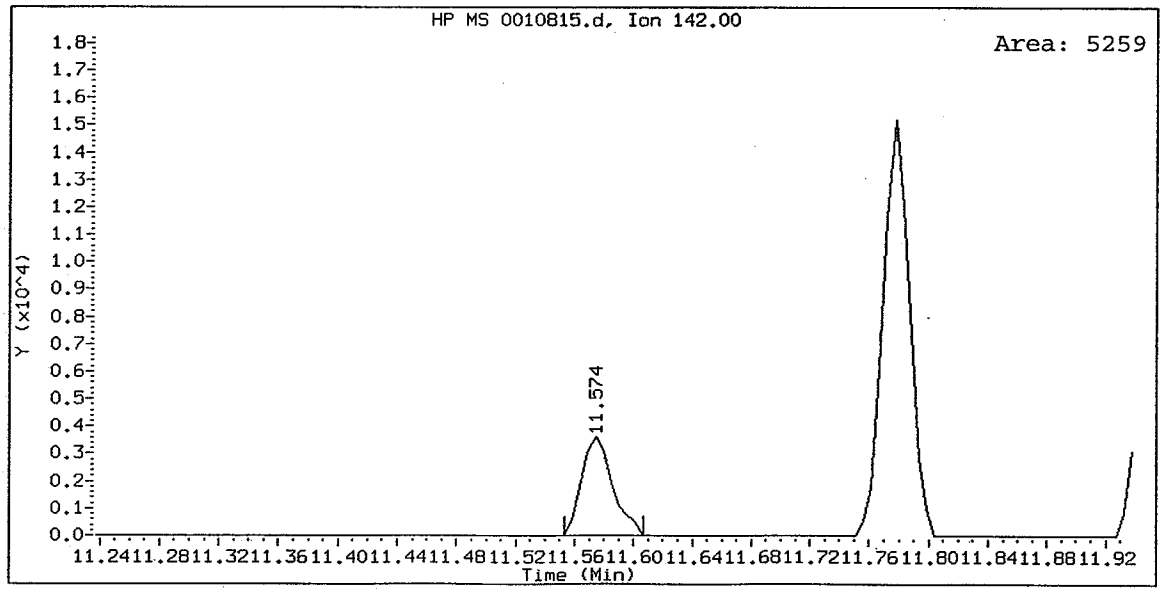
4-Chloro-3-methylphenol Amount: 0.80







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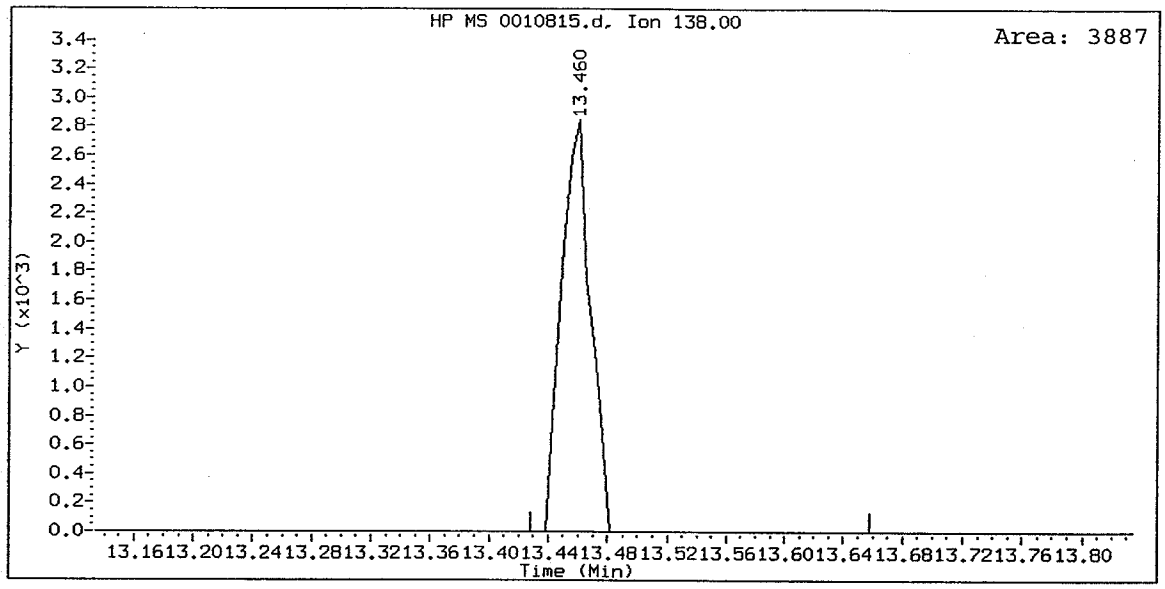
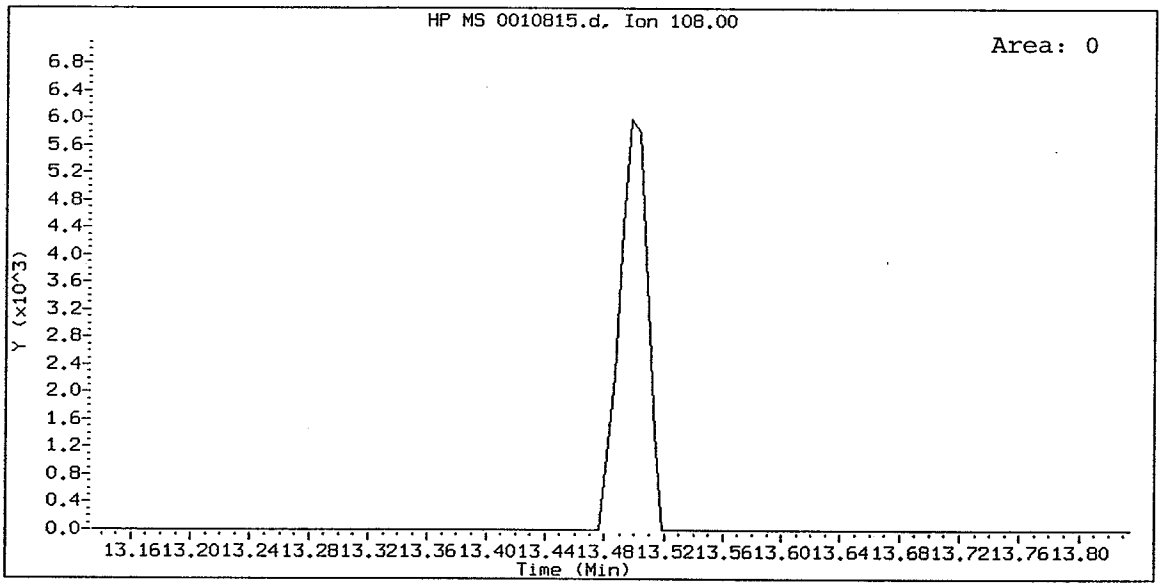
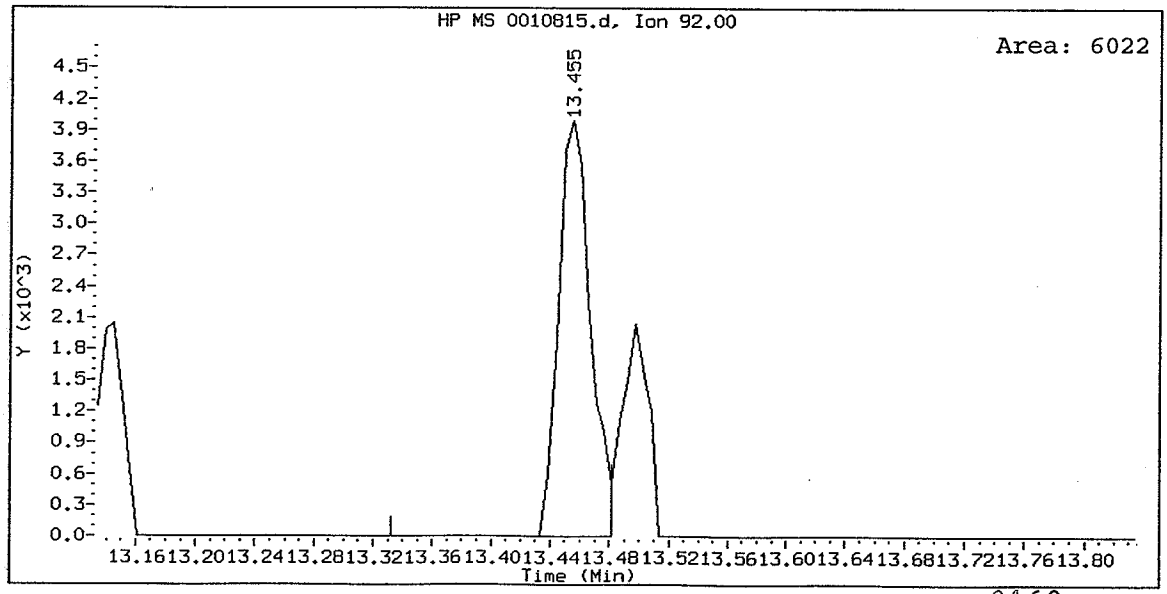
3-Nitroaniline Amount: 0.78







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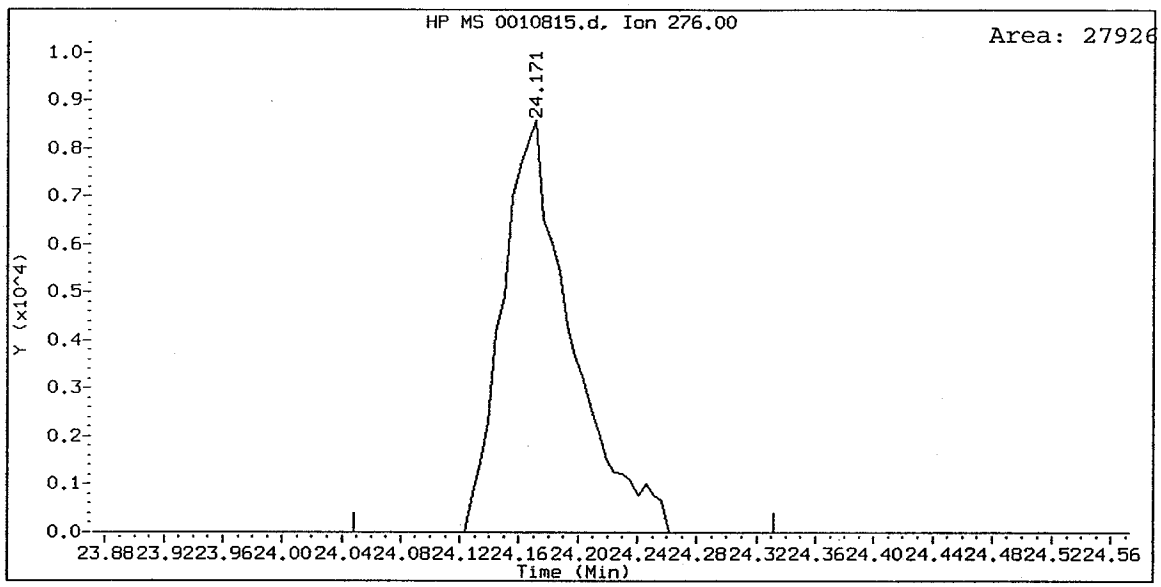
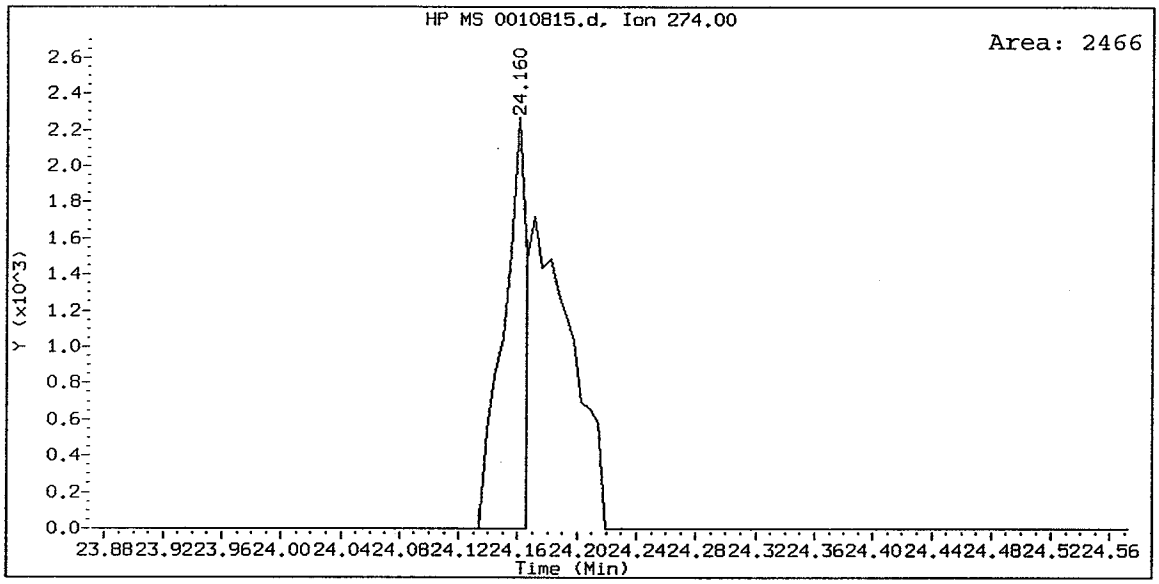
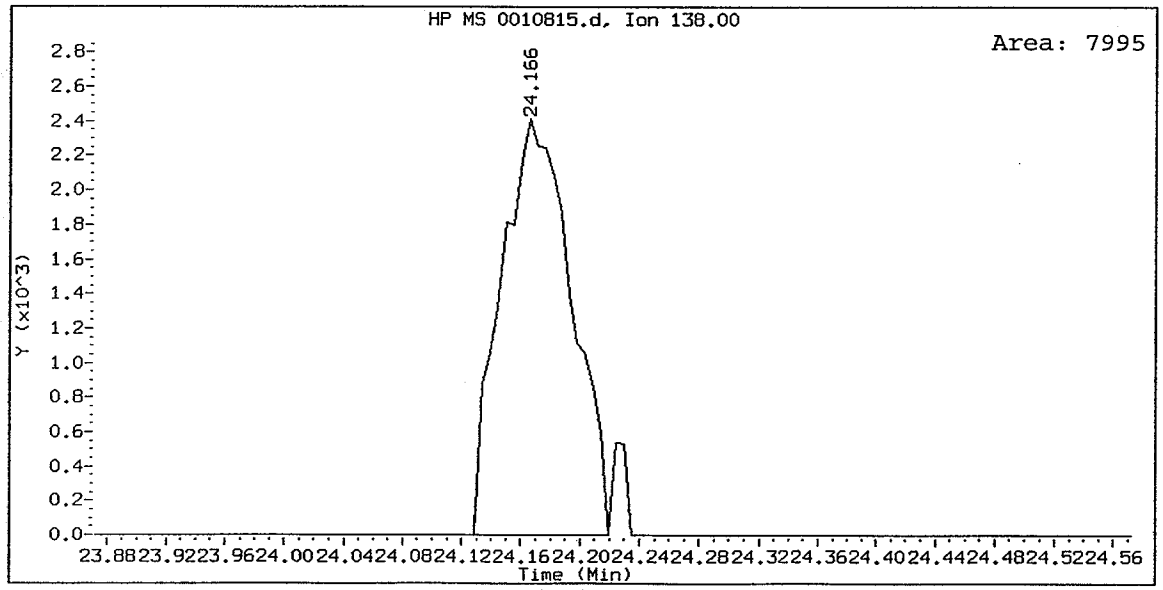
Indeno(1,2,3-cd)pyrene Amount: 0.93







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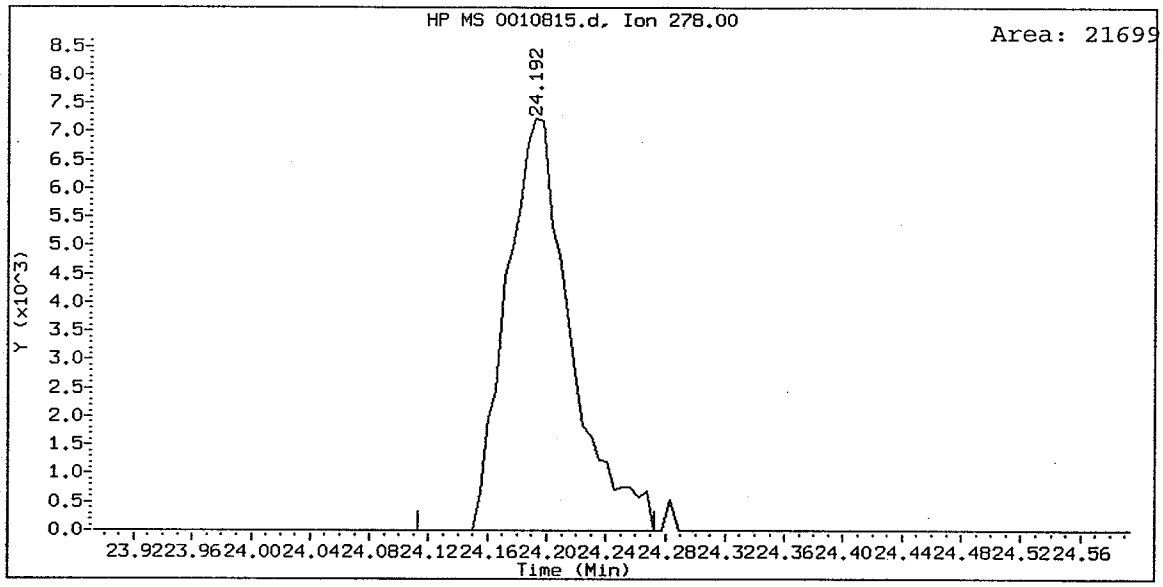
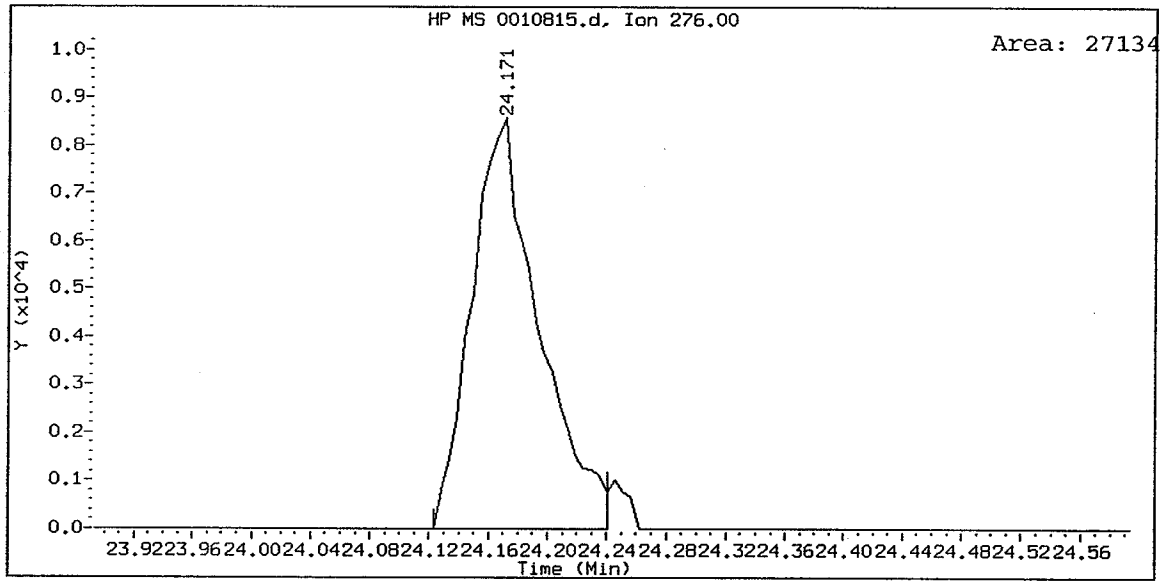
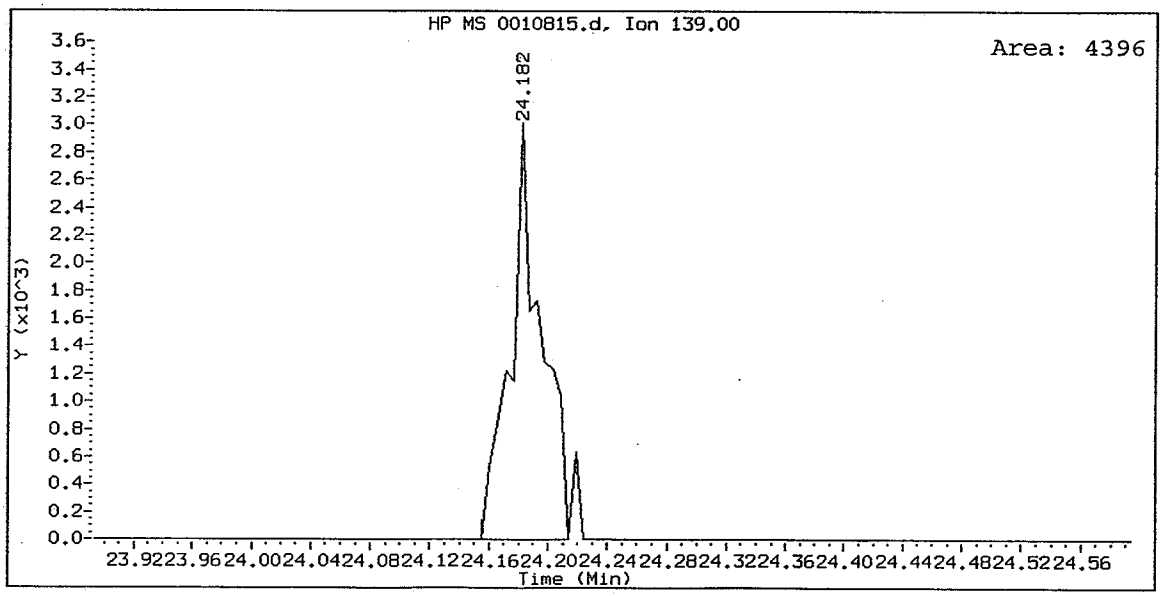
Dibenzo(a,h)anthracene Amount: 0.88







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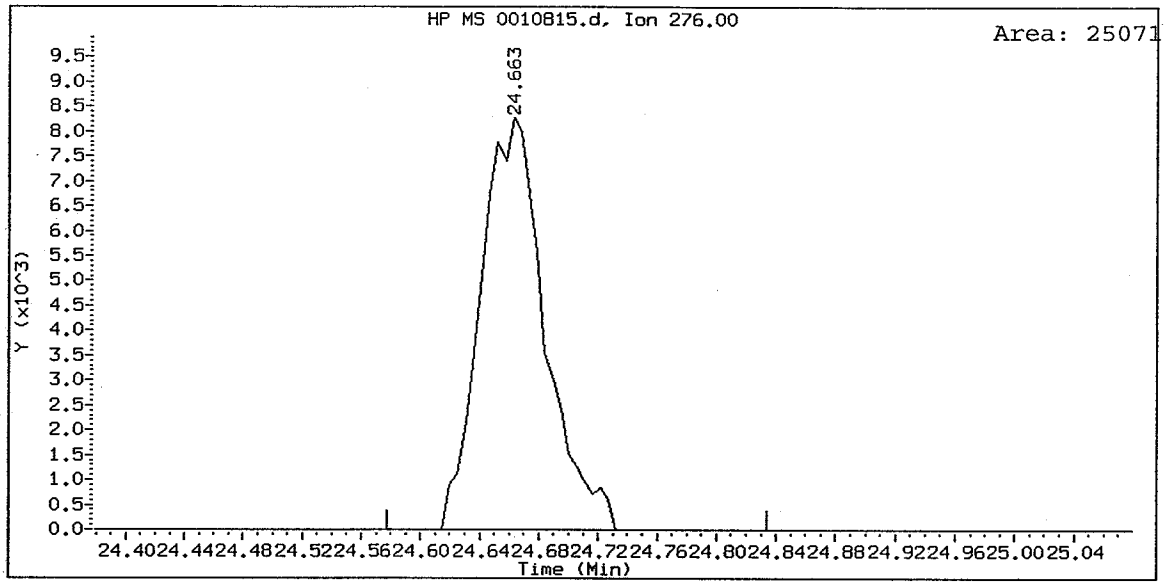
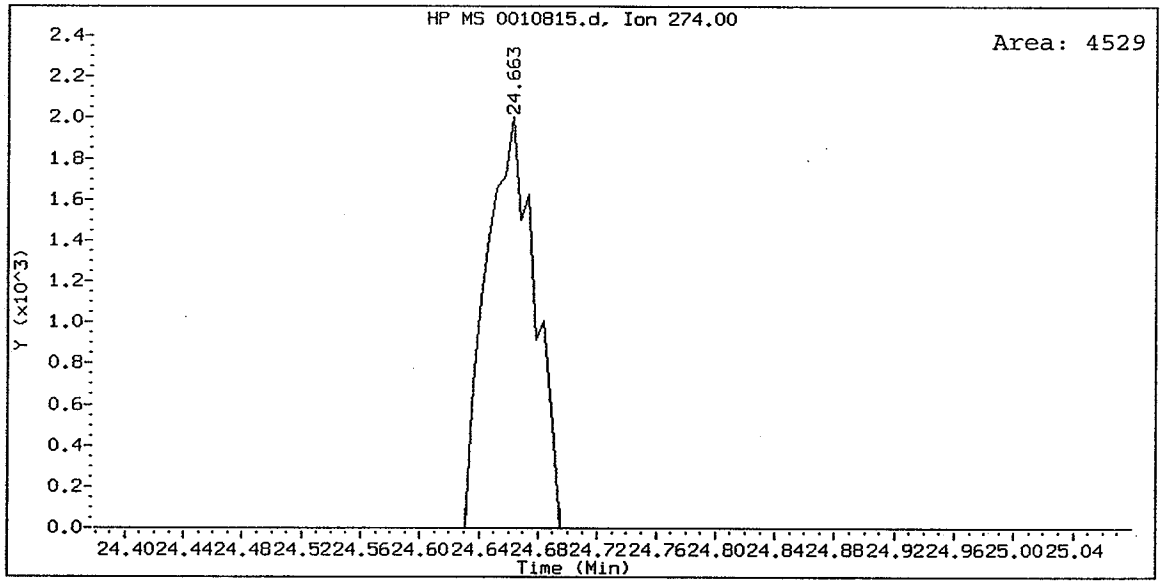
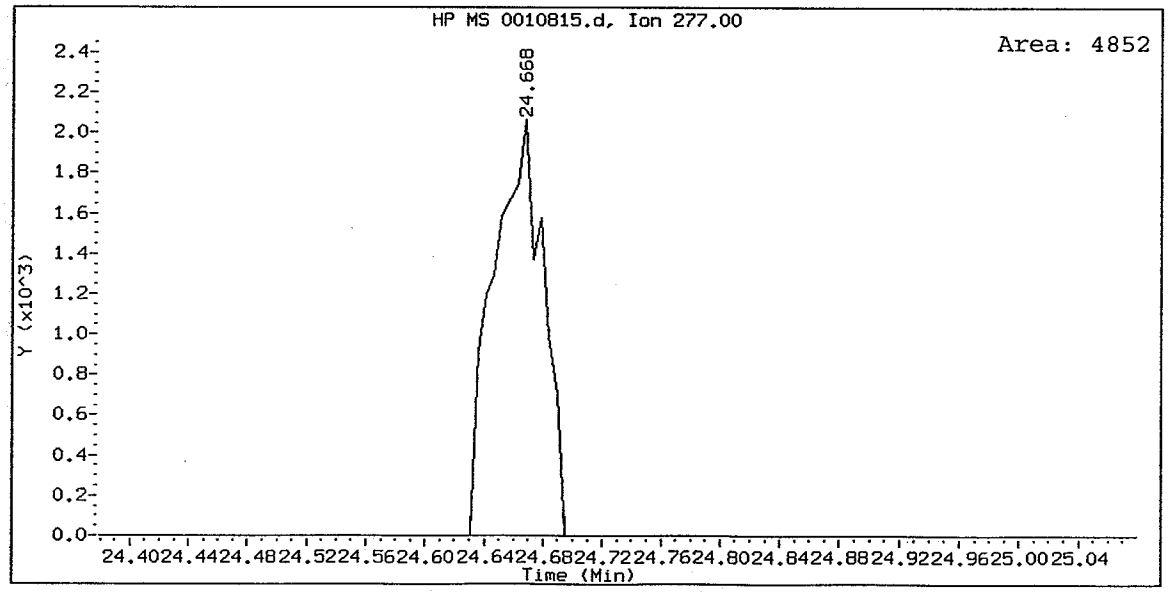
Benzo(g,h,i)perylene Amount: 0.95







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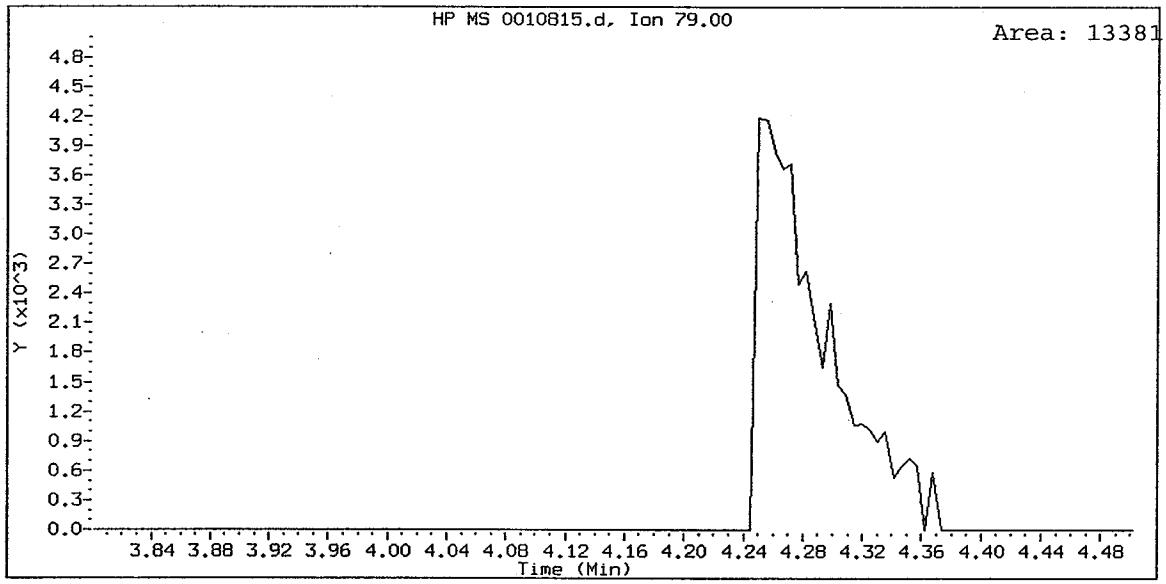
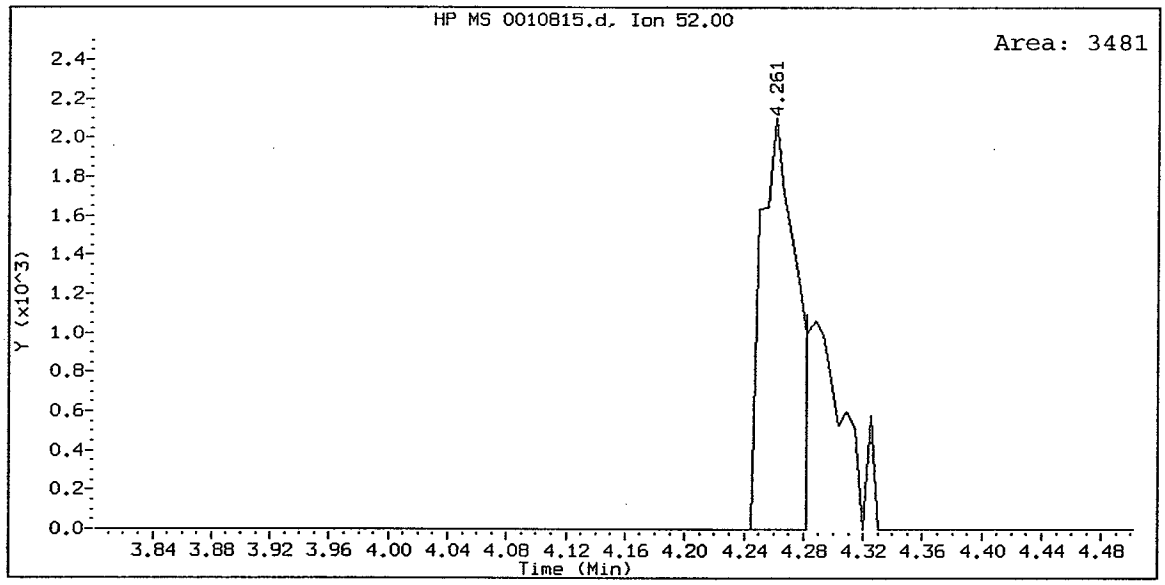
Pyridine Amount: 0.83





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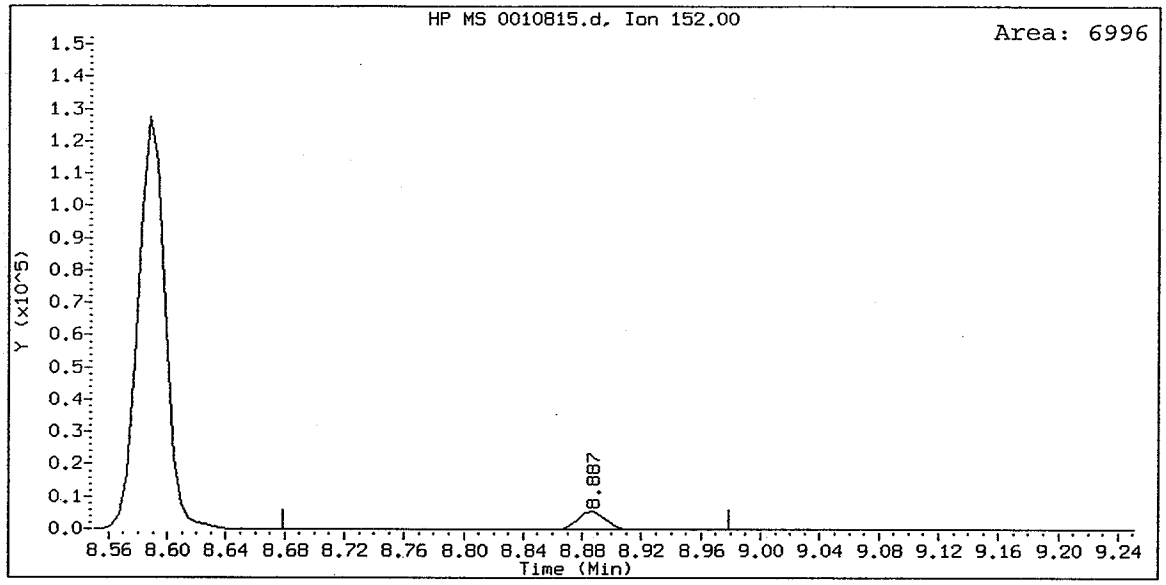
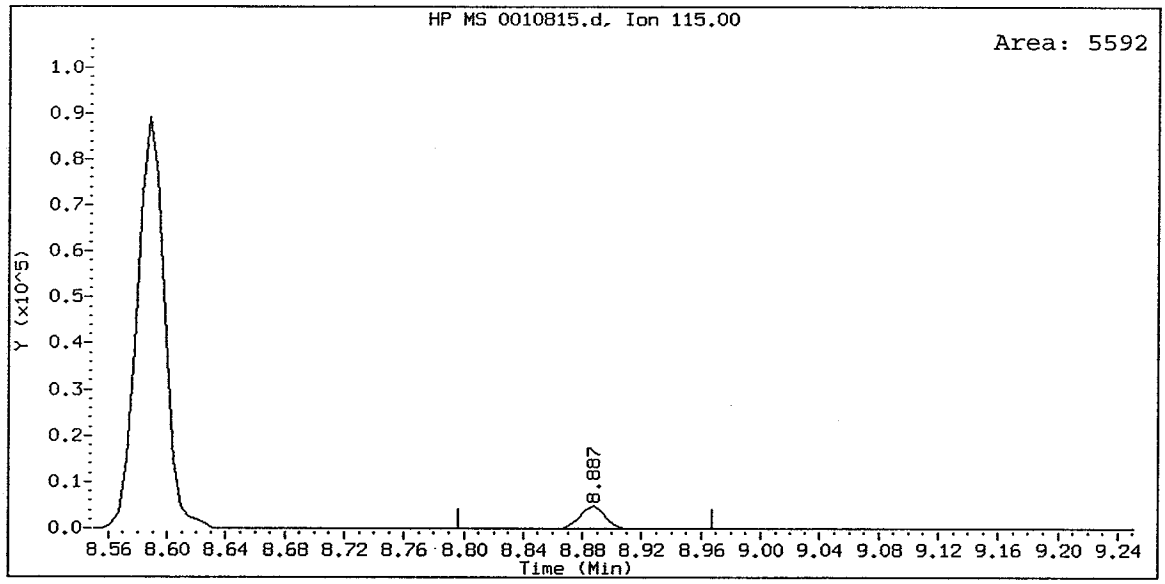
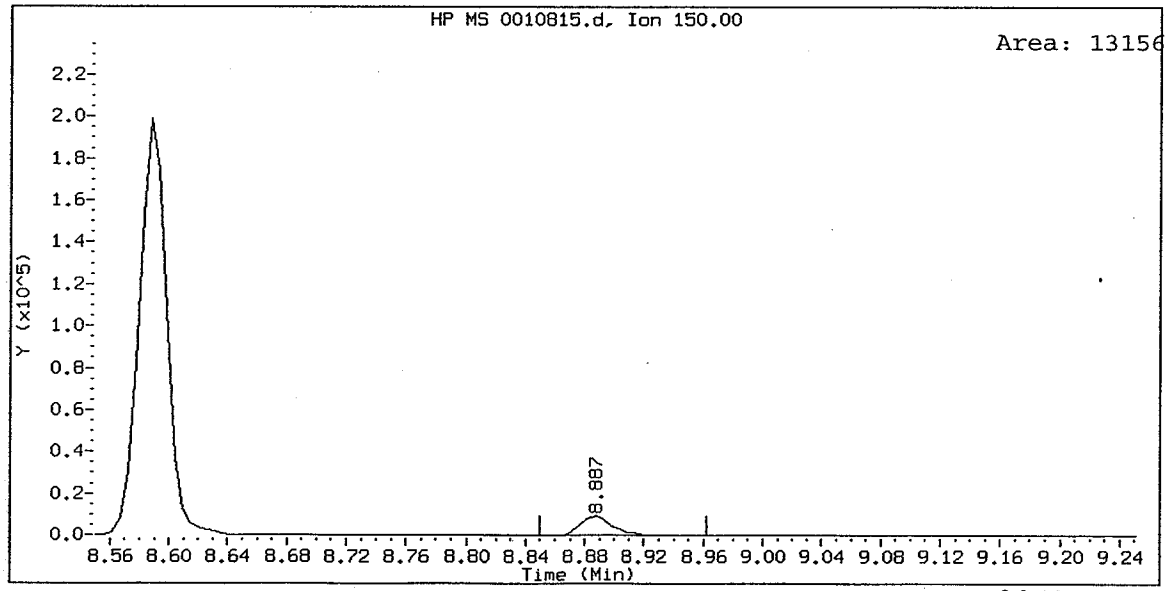
1,2-Dichlorobenzene-d4 Amount: 0.91







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060815.b/0050815.d
Lab Smp Id: ABN 5 Client Smp ID: ABN 5
Inj Date : 15-AUG-2006 11:07
Operator : VTS Inst ID: nt4.i
Smp Info : ABN 5
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060815.b/SW846.m
Meth Date : 16-Aug-2006 11:59 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJK 8/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.628	6.640	(0.772)	63185	5.00000	4.985
$	2 Phenol-d5	99	8.107	8.136	(0.944)	75004	5.00000	4.899
	3 Phenol	94	8.129	8.157	(0.946)	95048	5.00000	5.146
$	5 2-Chlorophenol-d4	132	8.278	8.296	(0.964)	62574	5.00000	5.073
	4 Bis(2-Chloroethyl)ether	93	8.241	8.264	(0.960)	68790	5.00000	5.309
	6 2-Chlorophenol	128	8.305	8.317	(0.967)	56571	5.00000	5.067
	7 1,3-Dichlorobenzene	146	8.529	8.536	(0.993)	62996	5.00000	5.310
*	8 1,4-Dichlorobenzene-d4	152	8.588	8.595	(1.000)	158892	20.0000	
	9 1,4-Dichlorobenzene	146	8.615	8.622	(1.003)	63441	5.00000	5.200
$	10 1,2-Dichlorobenzene-d4	152	8.887	8.899	(1.035)	38123	5.00000	5.121(H)
	12 1,2-Dichlorobenzene	146	8.909	8.921	(1.037)	59736	5.00000	5.297
	11 Benzyl alcohol	108	8.845	8.867	(1.030)	44341	5.00000	5.284
	14 2,2'-oxybis(1-Chloropropane)	45	9.112	9.119	(1.061)	52615	5.00000	5.073
	13 2-Methylphenol	108	9.058	9.076	(1.055)	56404	5.00000	5.195
	17 Hexachloroethane	117	9.400	9.402	(1.095)	26797	5.00000	5.223
	16 N-Nitroso-di-n-propylamine	70	9.320	9.354	(1.085)	57661	5.00000	5.307
	15 4-Methylphenol	108	9.283	9.311	(1.081)	57606	5.00000	5.167
$	18 Nitrobenzene-d5	82	9.507	9.525	(0.894)	88932	5.00000	5.270
	19 Nitrobenzene	77	9.534	9.557	(0.897)	90114	5.00000	5.395
	20 Isophorone	82	9.913	9.941	(0.933)	136898	5.00000	5.253
	21 2-Nitrophenol	139	10.052	10.064	(0.946)	28910	5.00000	4.996
	22 2,4-Dimethylphenol	107	10.132	10.150	(0.953)	63106	5.00000	5.261
	23 Bis(2-Chloroethoxy)methane	93	10.287	10.304	(0.968)	76163	5.00000	5.250
	24 Benzoic acid	105	10.250	10.470	(0.964)	56824	10.0000	7.272(M)
	25 2,4-Dichlorophenol	162	10.426	10.443	(0.981)	37002	5.00000	4.750
	26 1,2,4-Trichlorobenzene	180	10.565	10.577	(0.994)	47365	5.00000	5.379
*	27 Naphthalene-d8	136	10.629	10.636	(1.000)	585388	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.661	10.673	(1.003)	166788	5.00000	5.320
	29 4-Chloroaniline	127	10.784	10.801	(1.015)	64479	5.00000	5.073
	30 Hexachlorobutadiene	225	10.971	10.978	(1.032)	26812	5.00000	5.306
	31 4-Chloro-3-methylphenol	107	11.574	11.587	(1.089)	51704	5.00000	5.021 (M)
	32 2-Methylnaphthalene	141	11.777	11.790	(1.108)	88058	5.00000	5.352
	33 Hexachlorocyclopentadiene	237	12.157	12.164	(0.901)	16876	5.00000	4.091
	34 2,4,6-Trichlorophenol	196	12.285	12.292	(0.910)	25535	5.00000	4.804
	35 2,4,5-Trichlorophenol	196	12.338	12.351	(0.914)	26504	5.00000	4.738
$	36 2-Fluorobiphenyl	172	12.419	12.431	(0.920)	111169	5.00000	5.307
	37 2-Chloronaphthalene	162	12.563	12.575	(0.931)	94206	5.00000	5.362
	38 2-Nitroaniline	65	12.782	12.799	(0.947)	38866	5.00000	5.092
	39 Dimethylphthalate	163	13.145	13.168	(0.974)	102905	5.00000	5.373
	40 Acenaphthylene	152	13.247	13.259	(0.981)	150268	5.00000	5.320
	41 2,6-Dinitrotoluene	165	13.247	13.264	(0.981)	22664	5.00000	4.991
*	42 Acenaphthene-d10	164	13.498	13.510	(1.000)	306835	20.0000	
	43 3-Nitroaniline	138	13.455	13.483	(0.997)	25522	5.00000	5.172
	44 Acenaphthene	153	13.551	13.563	(1.004)	95469	5.00000	5.353
	45 2,4-Dinitrophenol	184	13.626	13.649	(1.009)	5431	10.0000	3.745
	46 Dibenzofuran	168	13.807	13.825	(1.023)	127787	5.00000	5.417
	47 4-Nitrophenol	109	13.738	13.772	(1.018)	15088	5.00000	4.664 (M)
	48 2,4-Dinitrotoluene	165	13.872	13.900	(1.028)	28985	5.00000	5.081
	50 Diethylphthalate	149	14.299	14.322	(1.059)	102539	5.00000	5.351
	49 Fluorene	166	14.368	14.386	(1.064)	103297	5.00000	5.260
	51 4-Chlorophenyl-phenylether	204	14.384	14.397	(1.066)	49495	5.00000	5.367
	52 4-Nitroaniline	138	14.454	14.498	(1.071)	23035	5.00000	5.168
	53 4,6-Dinitro-2-methylphenol	198	14.534	14.573	(0.915)	21410	10.0000	7.369
	54 N-Nitrosodiphenylamine	169	14.582	14.605	(0.918)	46493	5.00000	5.414
$	55 2,4,6-Tribromophenol	330	14.796	14.813	(1.096)	13360	5.00000	5.241
	56 4-Bromophenyl-phenylether	248	15.170	15.182	(0.955)	27277	5.00000	5.536
	57 Hexachlorobenzene	284	15.405	15.417	(0.969)	27831	5.00000	5.585
	58 Pentachlorophenol	266	15.693	15.711	(0.988)	13918	5.00000	4.447
*	59 Phenanthrene-d10	188	15.891	15.898	(1.000)	435718	20.0000	
	60 Phenanthrene	178	15.923	15.940	(1.002)	137940	5.00000	5.418
	61 Anthracene	178	15.998	16.015	(1.007)	134708	5.00000	5.342
	62 Carbazole	167	16.270	16.288	(1.024)	121689	5.00000	5.379
	63 Di-n-butylphthalate	149	16.965	16.977	(1.068)	149618	5.00000	5.266
	64 Fluoranthene	202	17.873	17.896	(1.125)	133762	5.00000	5.343
	65 Pyrene	202	18.236	18.254	(0.901)	137556	5.00000	5.383
$	66 Terphenyl-d14	244	18.530	18.547	(0.916)	92529	5.00000	5.190
	67 Butylbenzylphthalate	149	19.401	19.418	(0.959)	62348	5.00000	5.273
	68 Benzo(a)anthracene	228	20.202	20.225	(0.999)	125743	5.00000	5.257
*	69 Chrysene-d12	240	20.229	20.246	(1.000)	337343	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.197	20.214	(0.998)	43643	5.00000	5.432
	71 Chrysene	228	20.271	20.294	(1.002)	119331	5.00000	5.313
	72 bis(2-Ethylhexyl)phthalate	149	20.389	20.401	(0.956)	83522	5.00000	5.261
*	134 Di-n-octylphthalate-d4	153	21.329	21.341	(1.000)	677737	20.0000	
	73 Di-n-octylphthalate	149	21.335	21.347	(1.000)	155791	5.00000	5.252

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.869	21.897	(0.976)	121397	5.00000	5.153
75	Benzo(k)fluoranthene	252	21.901	21.934	(0.977)	135330	5.00000	5.529
76	Benzo(a)pyrene	252	22.323	22.351	(0.996)	114948	5.00000	5.326
* 77	Perylene-d12	264	22.414	22.420	(1.000)	393946	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.166	24.221	(1.078)	152279	5.00000	5.340 (M)
79	Dibenzo(a,h)anthracene	278	24.193	24.242	(1.079)	122793	5.00000	5.267 (M)
80	Benzo(g,h,i)perylene	276	24.663	24.728	(1.100)	135057	5.00000	5.381 (M)
90	N-Nitrosodimethylamine	74	4.170	4.193	(0.486)	43955	5.00000	4.959
103	Pyridine	79	4.186	4.150	(0.487)	78184	5.00000	5.037 (M)
91	Aniline	93	8.134	8.152	(0.947)	111436	5.00000	5.194
105	1-methylnaphthalene	141	11.954	11.966	(1.125)	89967	5.00000	5.372
93	Benzidine	184	18.108	18.120	(0.895)	60472	5.00000	6.160
98	Retene	219	18.786	18.804	(0.929)	60188	5.00000	5.210
111	Azobenzene (1,2-DP-Hydrazine)	77	14.636	14.653	(1.084)	155576	5.00000	5.298
144	alpha-Terpineol	59	10.666	10.684	(1.004)	38390	5.00000	5.152
143	1,4-Dioxane	88	3.412	3.402	(0.397)	26073	5.00000	5.123
$ 137	d8-1,4-Dioxane	96	3.348	3.338	(0.390)	25662	5.00000	5.148
133	Butylatedhydroxytoluene	205	13.647	13.659	(1.011)	83045	5.00000	5.305
115	Tributyl Phosphate	99	14.652	14.685	(0.922)	134546	5.00000	5.279
116	Dibutyl Phenyl Phosphate	175	16.404	16.421	(1.032)	90128	5.00000	5.179
117	Butyl Diphenyl Phosphate	94	18.108	18.120	(0.895)	32646	5.00000	5.027
118	Triphenyl Phosphate	326	19.727	19.739	(0.975)	20224	5.00000	5.188

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 0050815.d
Lab Smp Id: ABN 5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

Calibration Date: 15-AUG-2006
Calibration Time: 08:55
Client Smp ID: ABN 5
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144618	72309	289236	158892	9.87
27 Naphthalene-d8	543038	271519	1086076	585388	7.80
42 Acenaphthene-d10	285517	142758	571034	306835	7.47
59 Phenanthrene-d10	409554	204777	819108	435718	6.39
69 Chrysene-d12	311119	155560	622238	337343	8.43
134 Di-n-octylphthala	651942	325971	1303884	677737	3.96
77 Perylene-d12	362847	181424	725694	393946	8.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.59	8.09	9.09	8.59	-0.01
27 Naphthalene-d8	10.63	10.13	11.13	10.63	-0.01
42 Acenaphthene-d10	13.50	13.00	14.00	13.50	-0.04
59 Phenanthrene-d10	15.89	15.39	16.39	15.89	0.00
69 Chrysene-d12	20.23	19.73	20.73	20.23	-0.03
134 Di-n-octylphthala	21.33	20.83	21.83	21.33	0.00
77 Perylene-d12	22.41	21.91	22.91	22.41	0.00

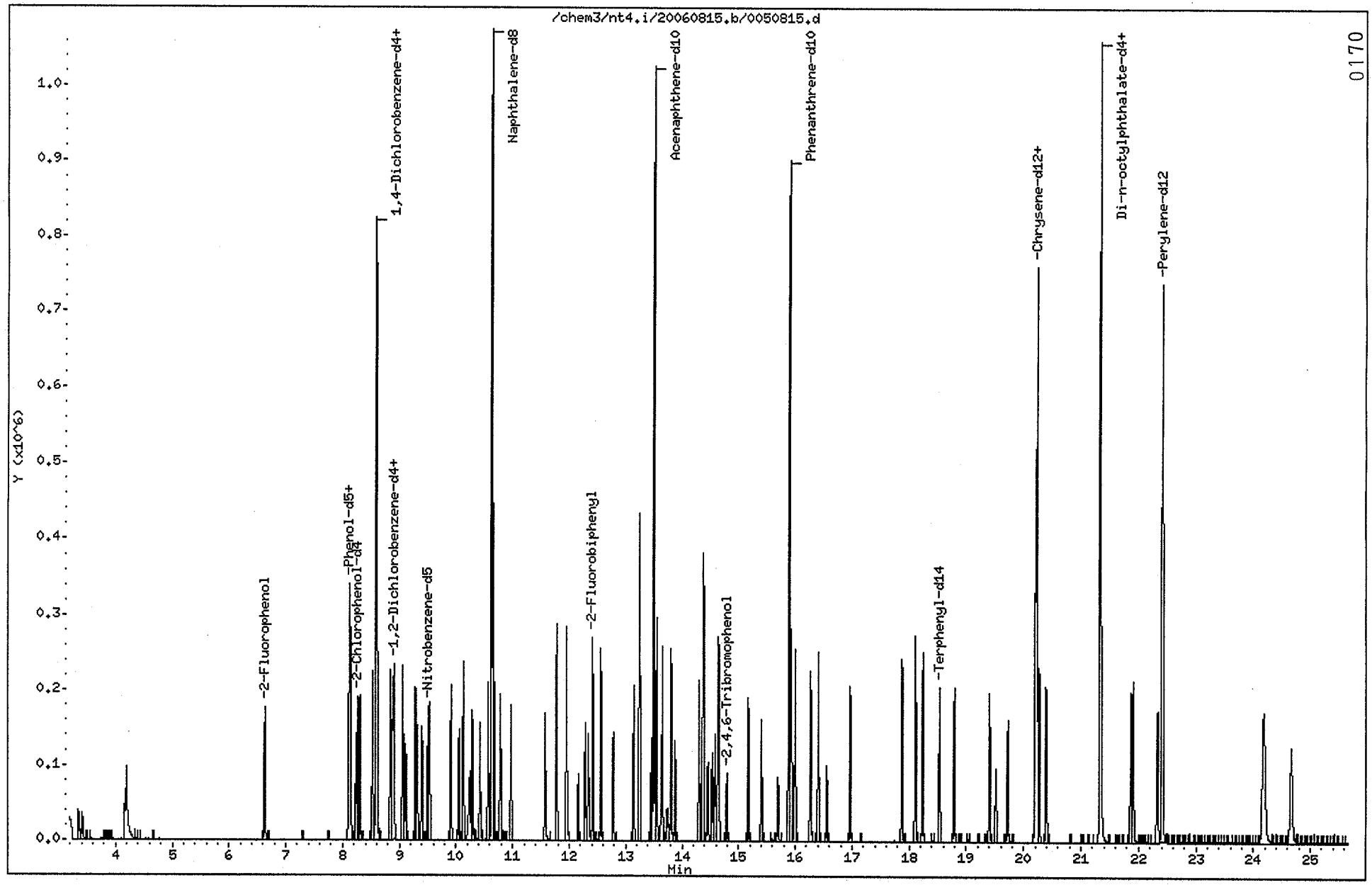
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060815.b/0050815.d
Date : 15-AUG-2006 11:07
Client ID: ABN 5
Sample Info: ABN 5

Instrument: nt4.i

Operator: VTS
Column diameter: 0.32

Column phase: ZB-5



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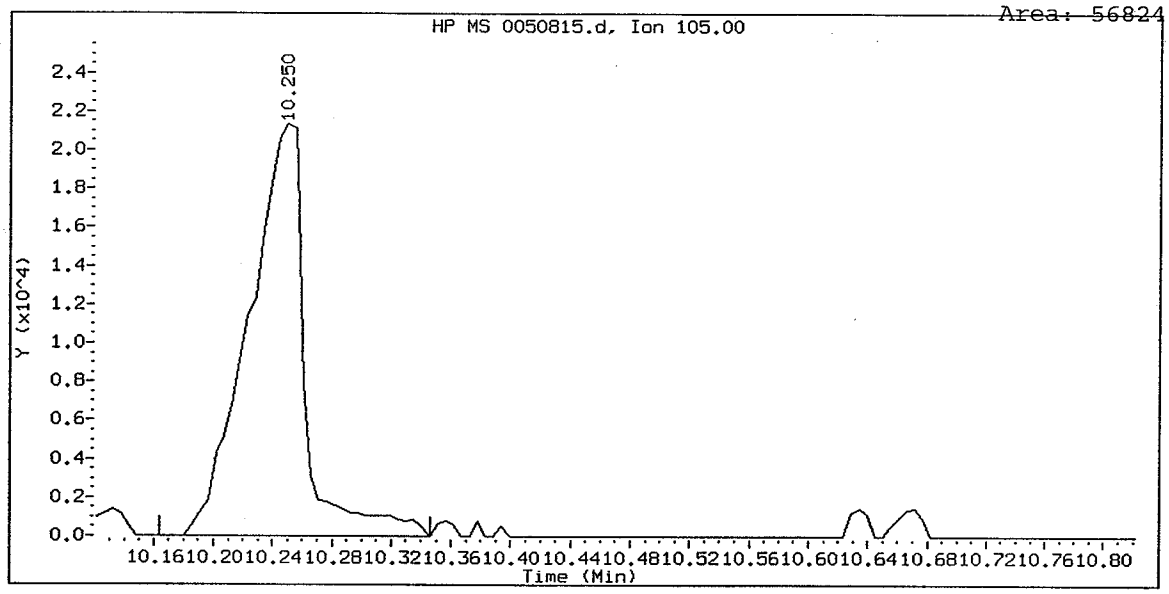
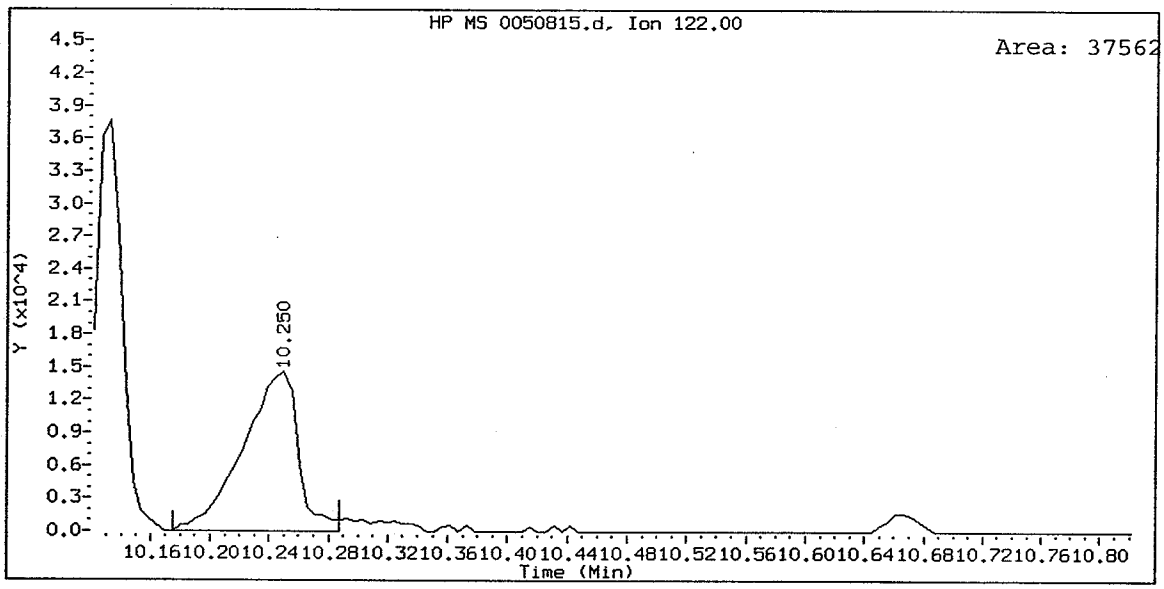
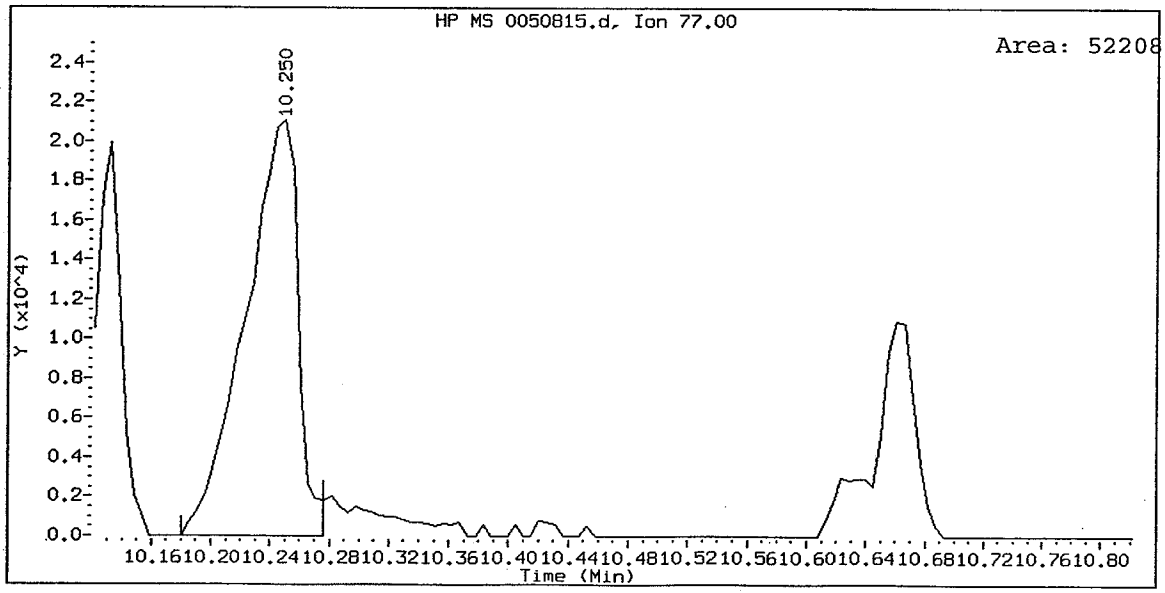
Benzoic acid Amount: 7.27







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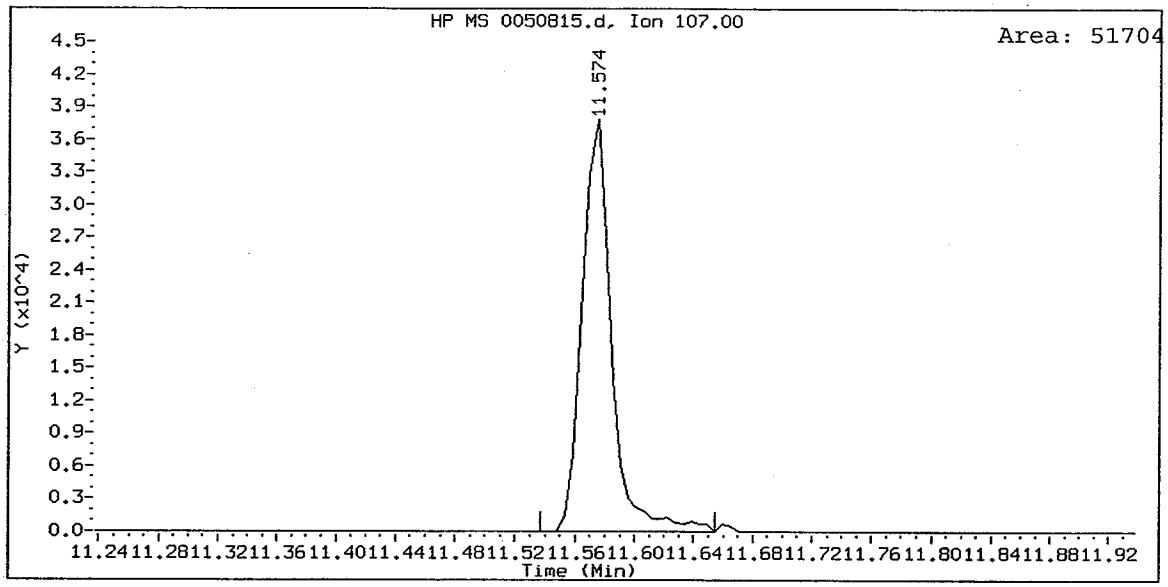
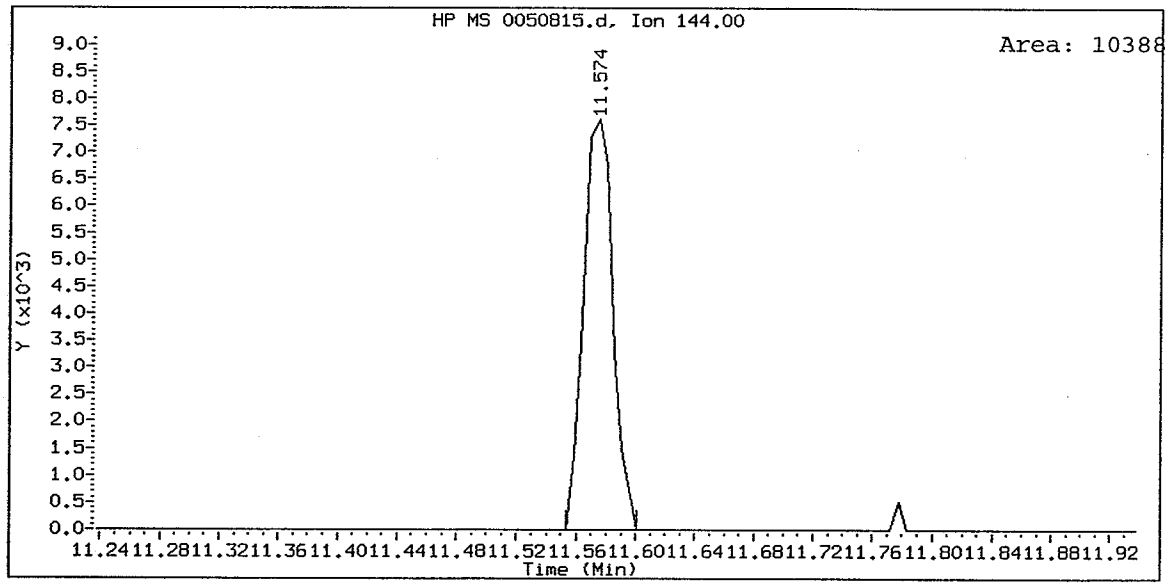
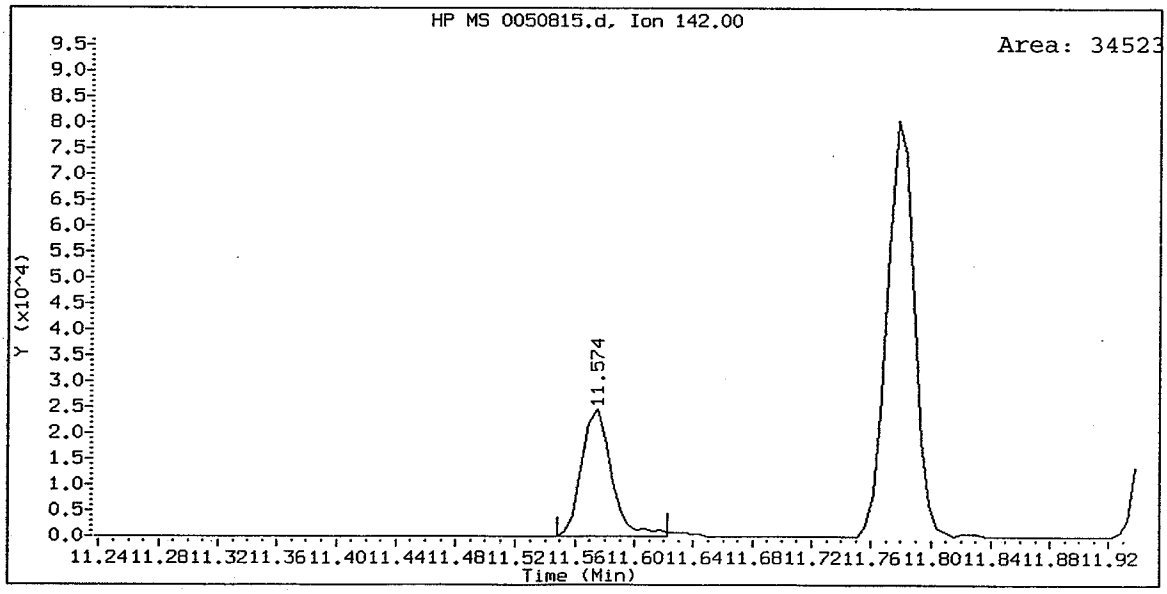
4-Chloro-3-methylphenol Amount: 5.02







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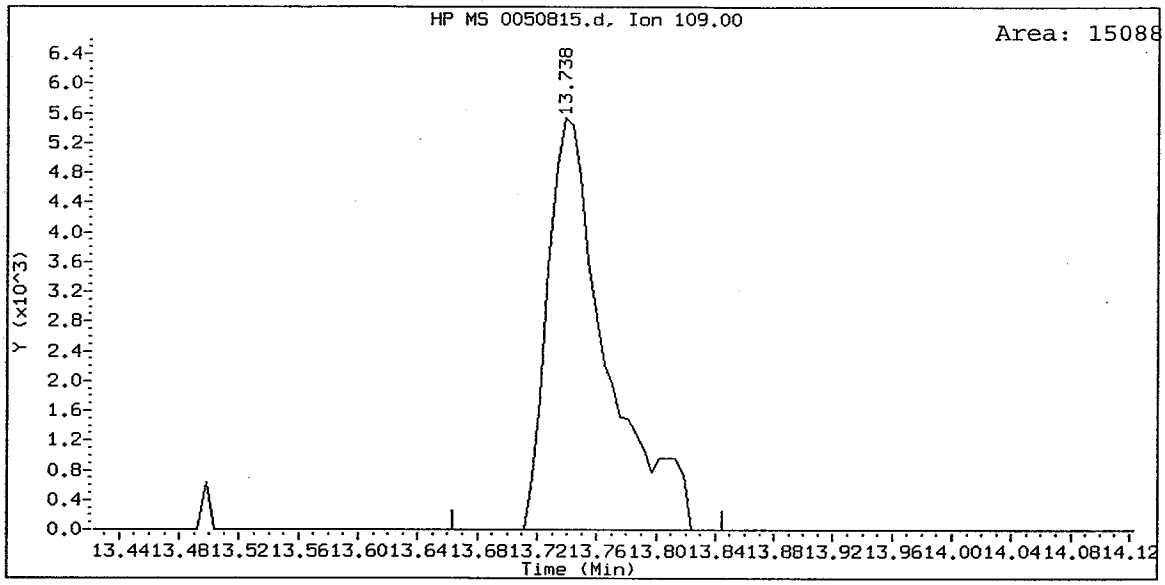
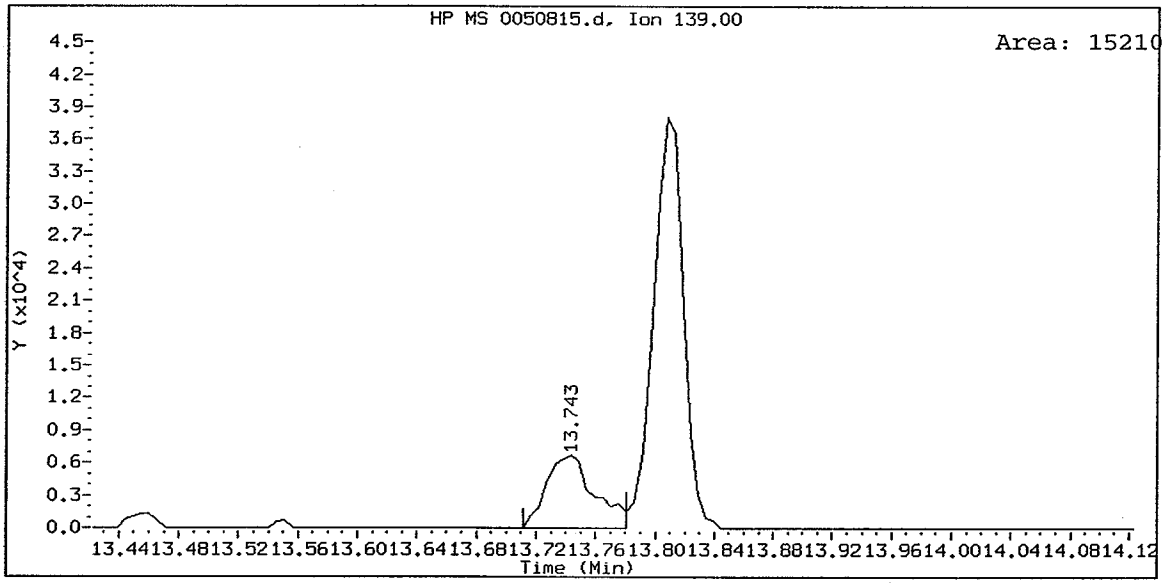
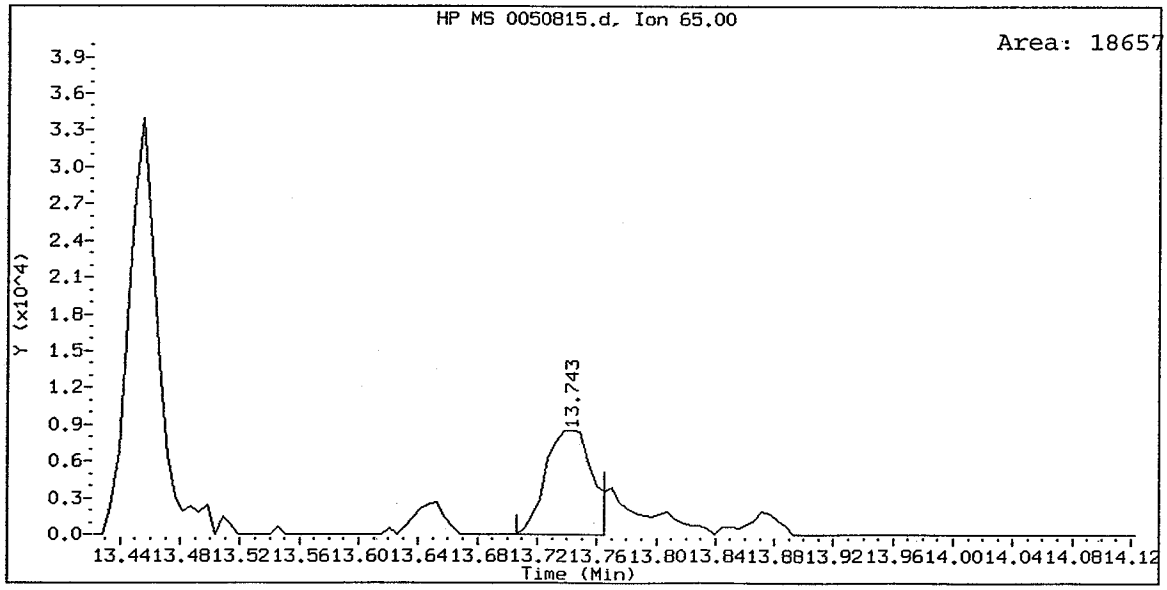
4-Nitrophenol Amount: 4.66







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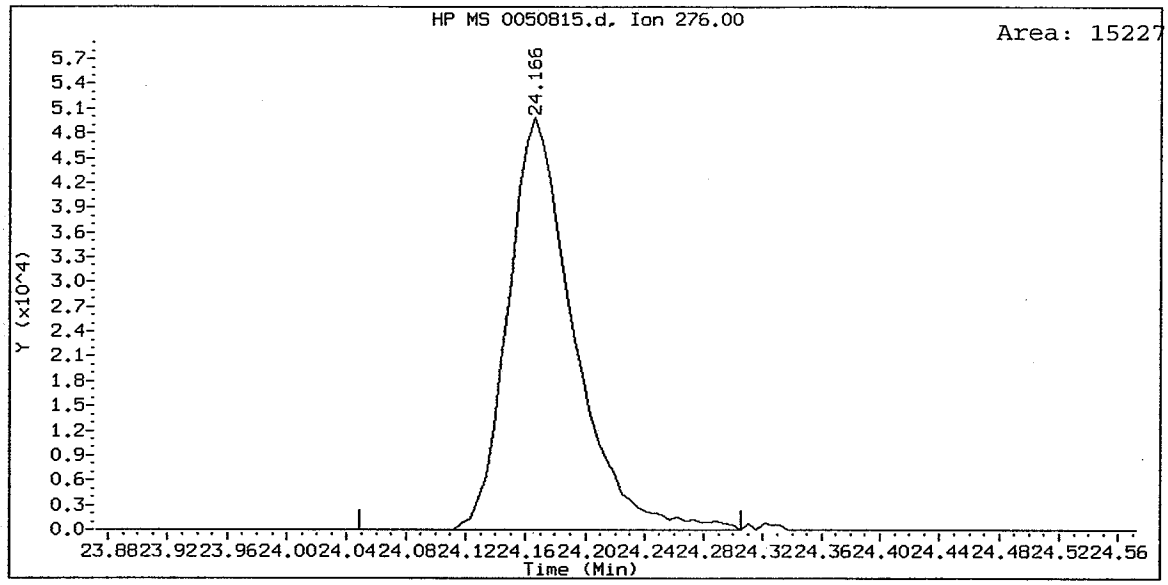
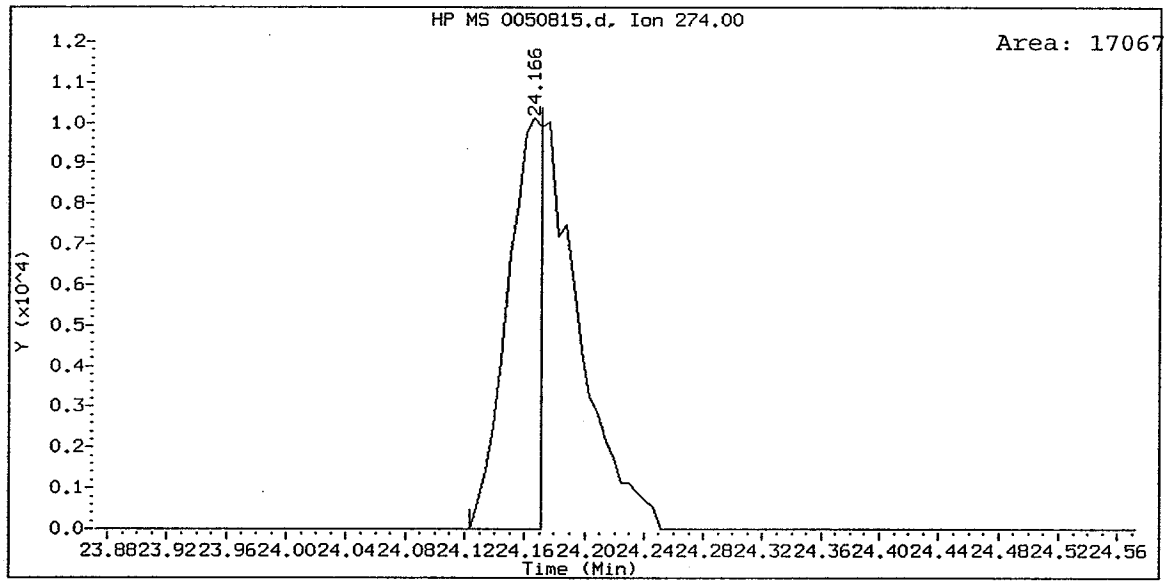
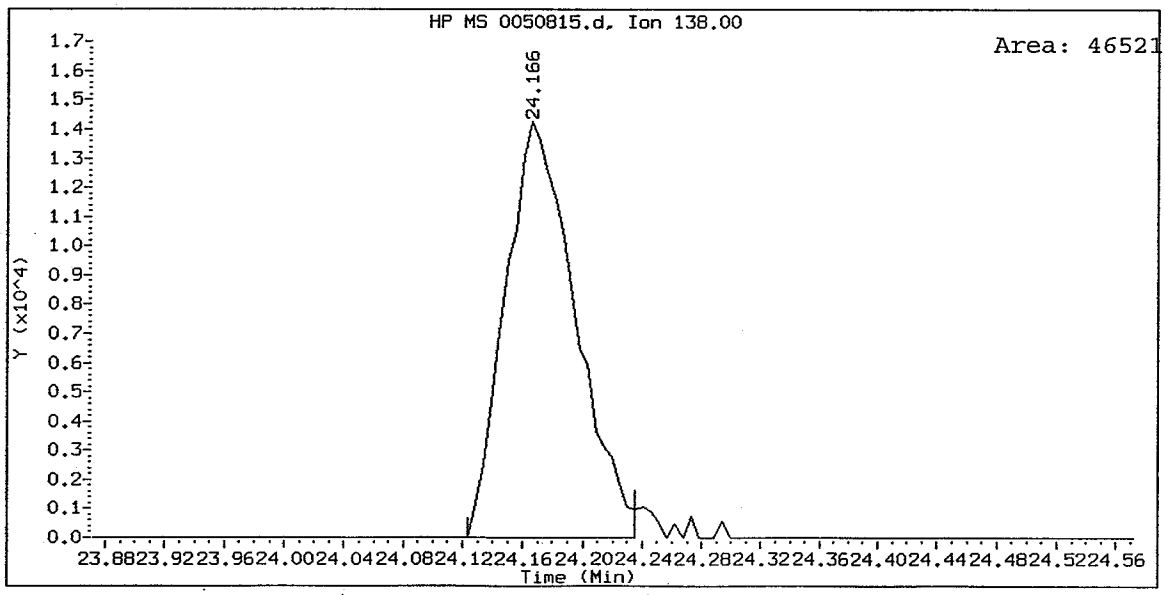
Indeno(1,2,3-cd)pyrene Amount: 5.34







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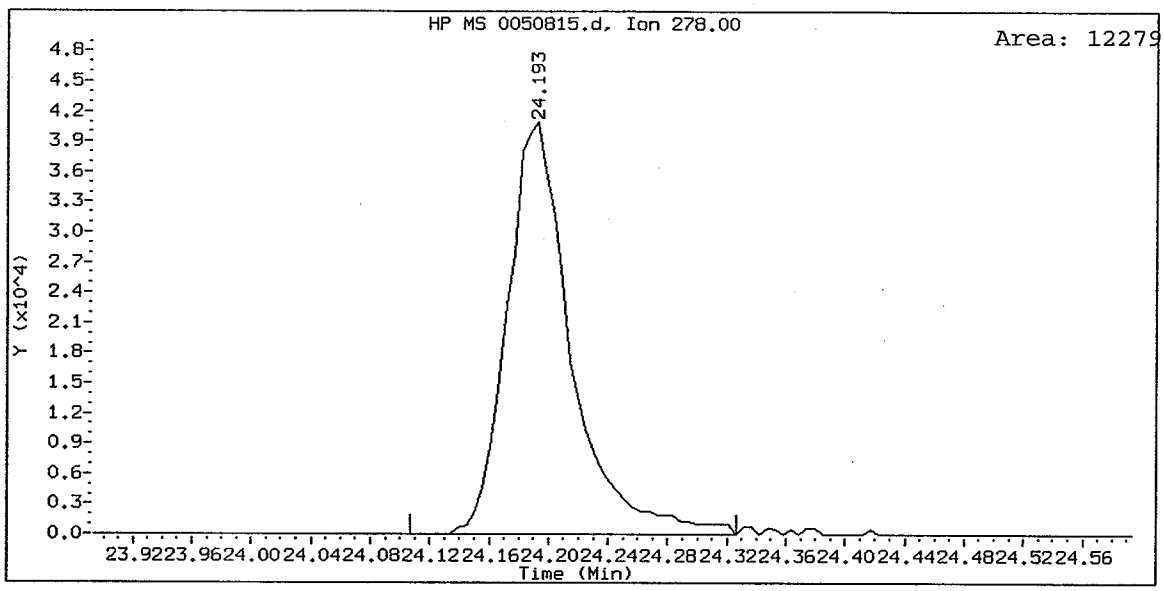
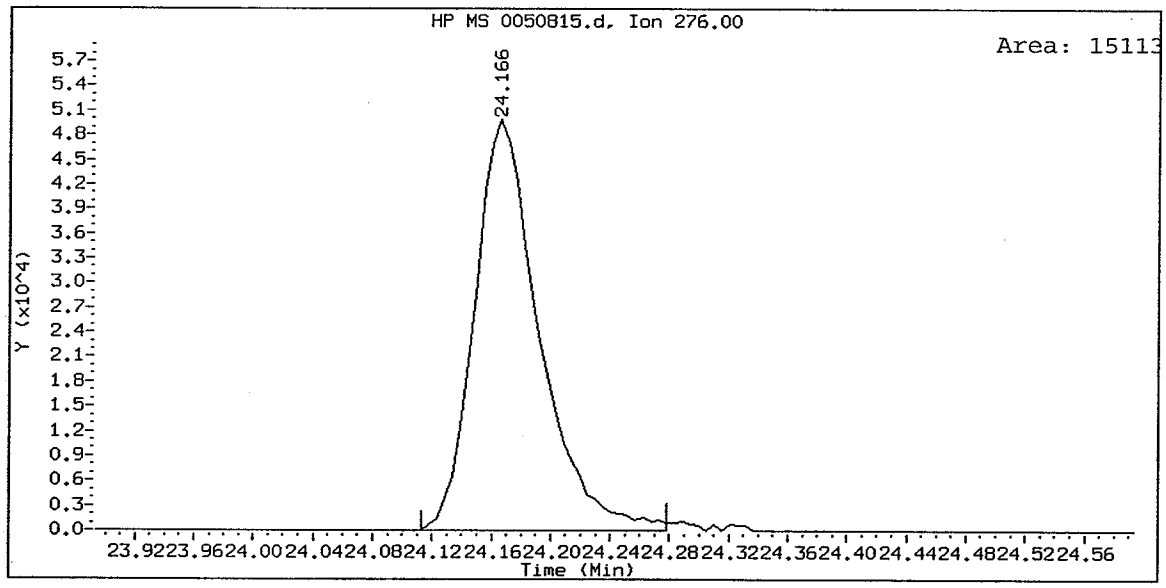
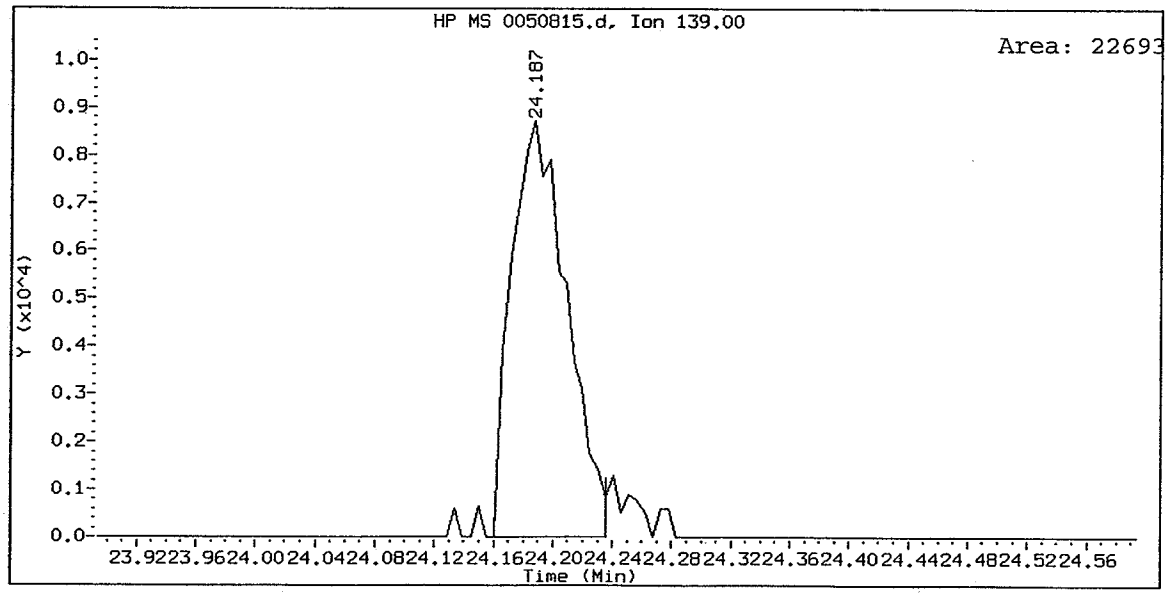
Dibenzo(a,h)anthracene Amount: 5.27







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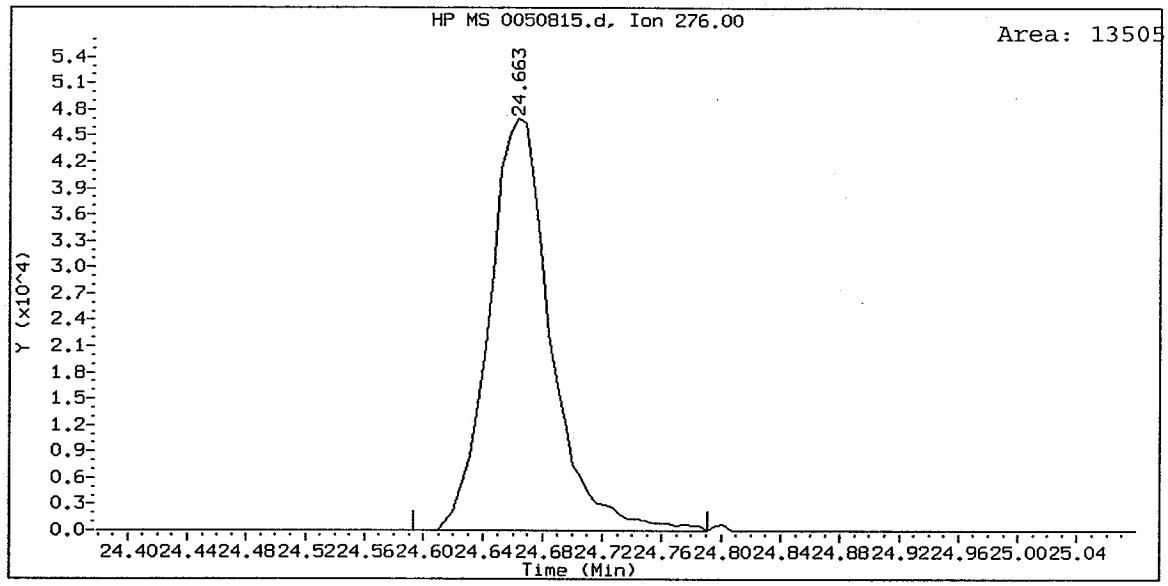
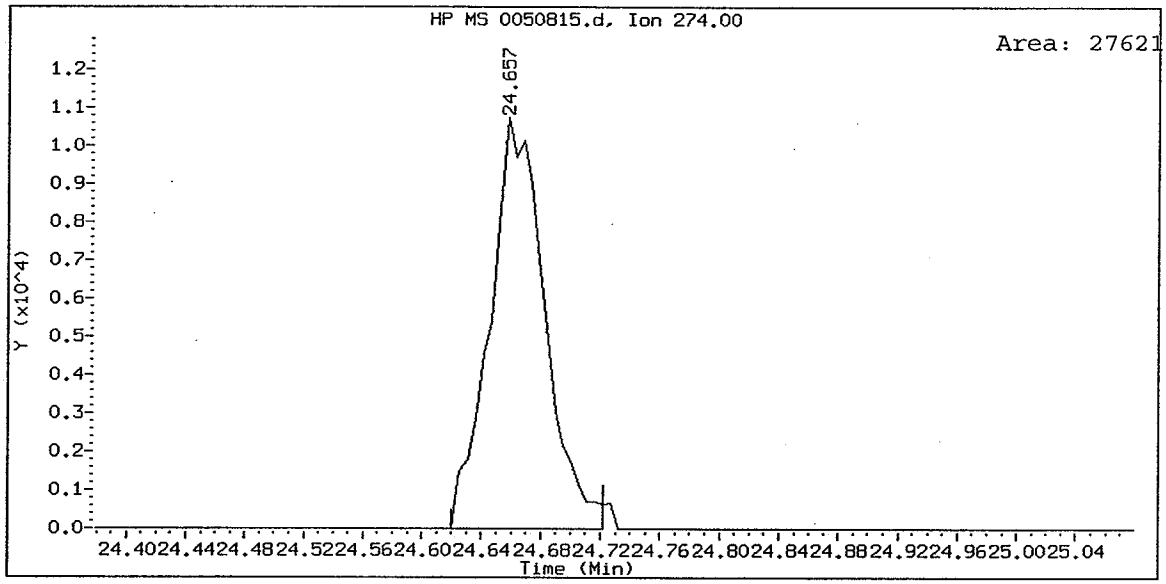
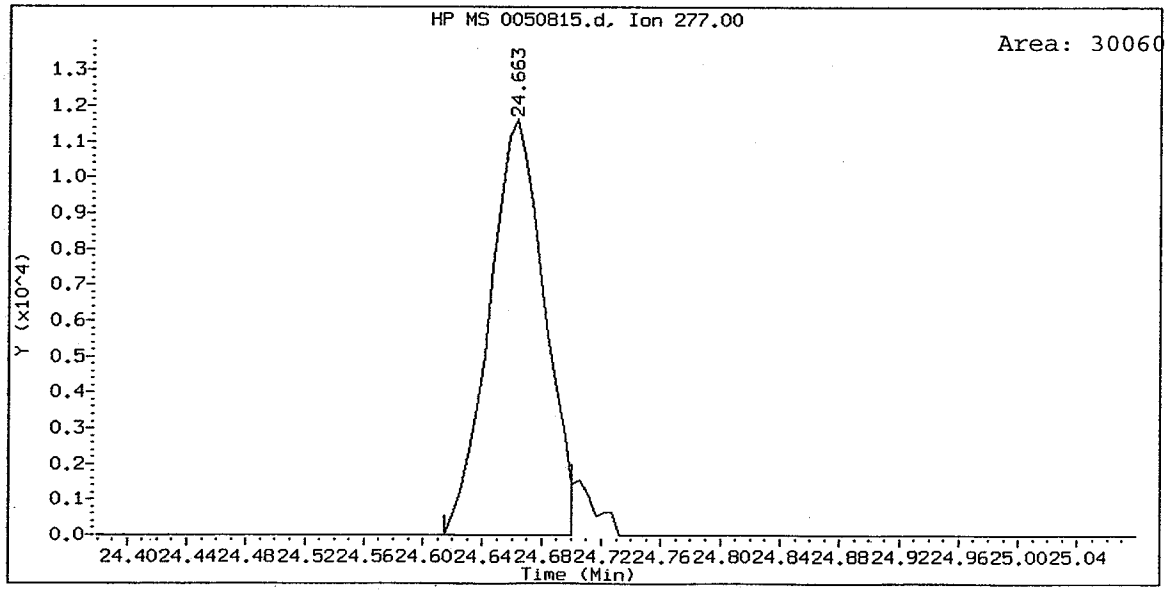
Benzo(g,h,i)perylene Amount: 5.38







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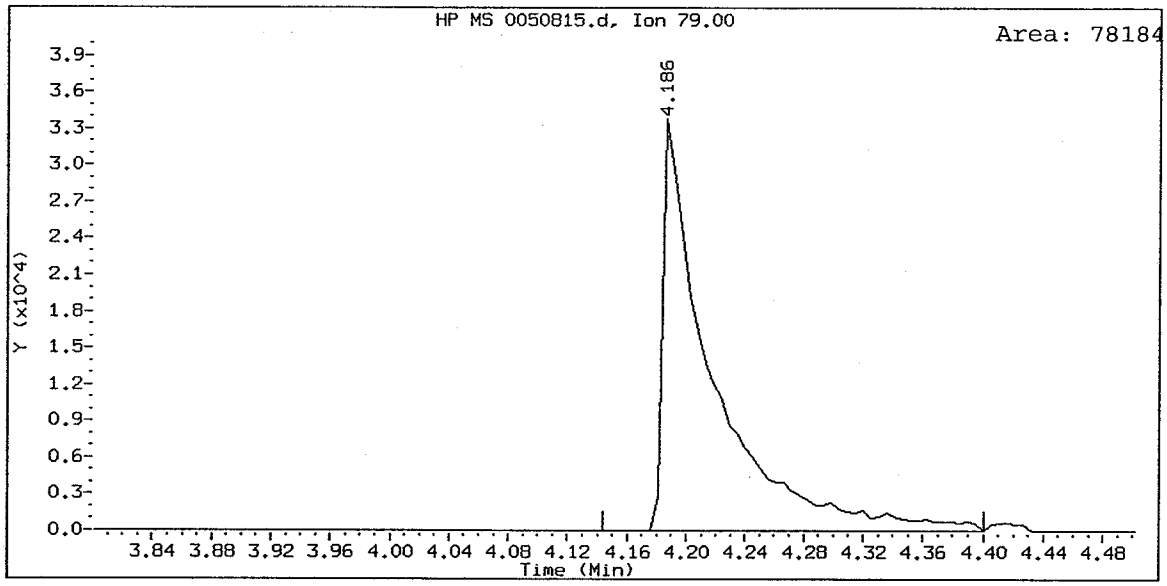
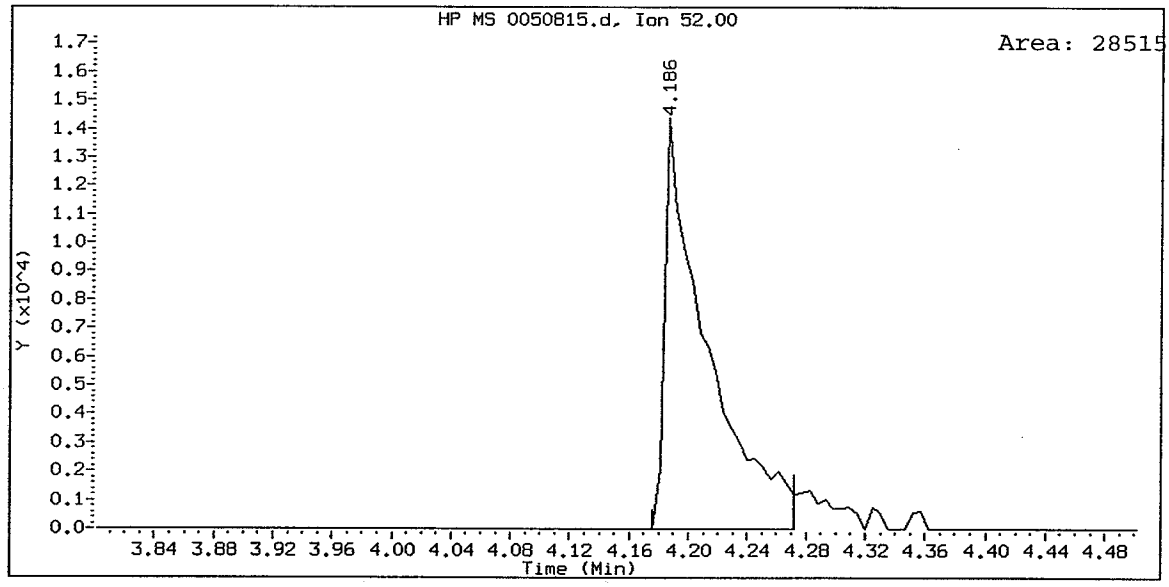
Pyridine Amount: 5.04





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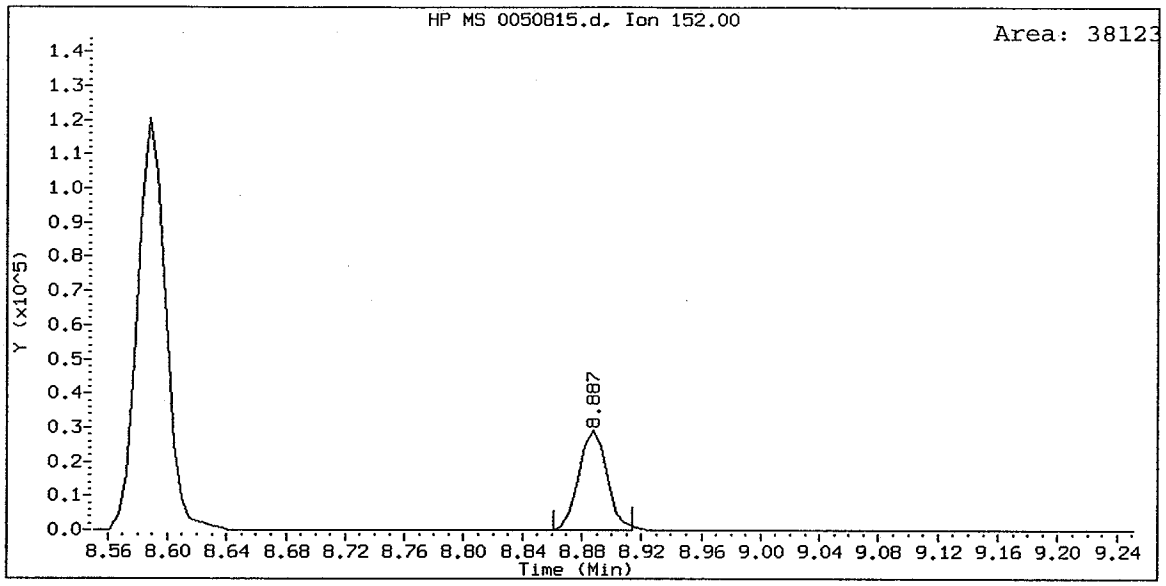
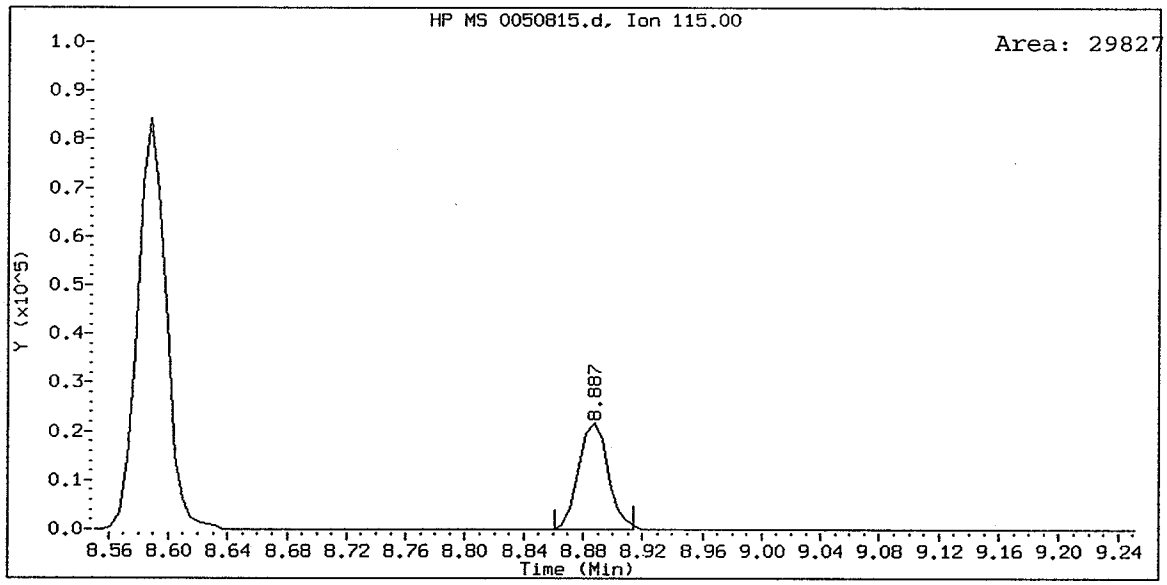
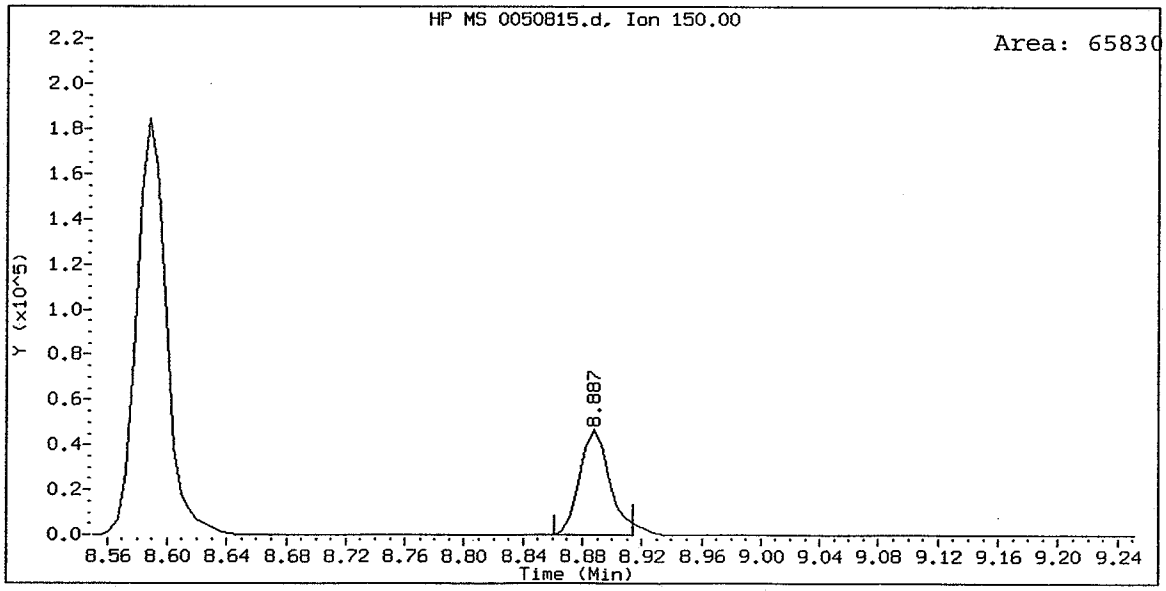
1,2-Dichlorobenzene-d4 Amount: 5.12







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060815.b/0100815.d
Lab Smp Id: ABN 10 Client Smp ID: ABN 10
Inj Date : 15-AUG-2006 11:40
Operator : VTS Inst ID: nt4.i
Smp Info : ABN 10
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060815.b/SW846.m
Meth Date : 16-Aug-2006 11:59 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LTK 8/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.629	6.640	(0.772)	118613	10.0000	9.673
$	2 Phenol-d5	99	8.109	8.136	(0.944)	142632	10.0000	9.629
	3 Phenol	94	8.125	8.157	(0.946)	174920	10.0000	9.790
$	5 2-Chlorophenol-d4	132	8.280	8.296	(0.964)	117283	10.0000	9.829
	4 Bis(2-Chloroethyl)ether	93	8.242	8.264	(0.960)	121471	10.0000	9.690
	6 2-Chlorophenol	128	8.306	8.317	(0.967)	108702	10.0000	10.06
	7 1,3-Dichlorobenzene	146	8.531	8.536	(0.993)	110240	10.0000	9.605
*	8 1,4-Dichlorobenzene-d4	152	8.589	8.595	(1.000)	153722	20.0000	
	9 1,4-Dichlorobenzene	146	8.616	8.622	(1.003)	112935	10.0000	9.567
$	10 1,2-Dichlorobenzene-d4	152	8.889	8.899	(1.035)	71042	10.0000	9.864 (H)
	12 1,2-Dichlorobenzene	146	8.910	8.921	(1.037)	104667	10.0000	9.593
	11 Benzyl alcohol	108	8.846	8.867	(1.030)	78592	10.0000	9.681
	14 2,2'-oxybis(1-Chloropropane)	45	9.113	9.119	(1.061)	95952	10.0000	9.563
	13 2-Methylphenol	108	9.059	9.076	(1.055)	103357	10.0000	9.841
	17 Hexachloroethane	117	9.396	9.402	(1.094)	46730	10.0000	9.415
	16 N-Nitroso-di-n-propylamine	70	9.321	9.354	(1.085)	102262	10.0000	9.728
	15 4-Methylphenol	108	9.284	9.311	(1.081)	109331	10.0000	10.14
$	18 Nitrobenzene-d5	82	9.508	9.525	(0.894)	161146	10.0000	9.837
	19 Nitrobenzene	77	9.535	9.557	(0.897)	156243	10.0000	9.636
	20 Isophorone	82	9.914	9.941	(0.933)	242859	10.0000	9.600
	21 2-Nitrophenol	139	10.053	10.064	(0.946)	56053	10.0000	9.979
	22 2,4-Dimethylphenol	107	10.133	10.150	(0.953)	121774	10.0000	10.46
	23 Bis(2-Chloroethoxy)methane	93	10.288	10.304	(0.968)	135768	10.0000	9.641
	24 Benzoic acid	105	10.277	10.470	(0.967)	138073	20.0000	18.20 (M)
	25 2,4-Dichlorophenol	162	10.422	10.443	(0.980)	73630	10.0000	9.736
	26 1,2,4-Trichlorobenzene	180	10.566	10.577	(0.994)	81115	10.0000	9.490
*	27 Naphthalene-d8	136	10.630	10.636	(1.000)	568236	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.662	10.673	(1.003)	287102	10.0000	9.434
	29 4-Chloroaniline	127	10.785	10.801	(1.015)	120196	10.0000	9.742
	30 Hexachlorobutadiene	225	10.972	10.978	(1.032)	47242	10.0000	9.632
	31 4-Chloro-3-methylphenol	107	11.576	11.587	(1.089)	99095	10.0000	9.914
	32 2-Methylnaphthalene	141	11.779	11.790	(1.108)	156471	10.0000	9.797
	33 Hexachlorocyclopentadiene	237	12.158	12.164	(0.901)	33434	10.0000	8.327
	34 2,4,6-Trichlorophenol	196	12.281	12.292	(0.910)	50847	10.0000	9.828
	35 2,4,5-Trichlorophenol	196	12.340	12.351	(0.914)	54561	10.0000	10.02
$	36 2-Fluorobiphenyl	172	12.414	12.431	(0.920)	203820	10.0000	9.996
	37 2-Chloronaphthalene	162	12.564	12.575	(0.931)	165291	10.0000	9.666
	38 2-Nitroaniline	65	12.778	12.799	(0.947)	72028	10.0000	9.695
	39 Dimethylphthalate	163	13.146	13.168	(0.974)	177232	10.0000	9.508
	40 Acenaphthylene	152	13.248	13.259	(0.981)	262320	10.0000	9.543
	41 2,6-Dinitrotoluene	165	13.248	13.264	(0.981)	40929	10.0000	9.260
*	42 Acenaphthene-d10	164	13.499	13.510	(1.000)	298640	20.0000	
	43 3-Nitroaniline	138	13.456	13.483	(0.997)	46053	10.0000	9.588
	44 Acenaphthene	153	13.552	13.563	(1.004)	164219	10.0000	9.461
	45 2,4-Dinitrophenol	184	13.627	13.649	(1.009)	18523	20.0000	13.12
	46 Dibenzofuran	168	13.809	13.825	(1.023)	219447	10.0000	9.557
	47 4-Nitrophenol	109	13.739	13.772	(1.018)	28579	10.0000	9.077
	48 2,4-Dinitrotoluene	165	13.878	13.900	(1.028)	52165	10.0000	9.396
	50 Diethylphthalate	149	14.300	14.322	(1.059)	176672	10.0000	9.473
	49 Fluorene	166	14.370	14.386	(1.064)	179677	10.0000	9.400
	51 4-Chlorophenyl-phenylether	204	14.386	14.397	(1.066)	83806	10.0000	9.337
	52 4-Nitroaniline	138	14.455	14.498	(1.071)	39366	10.0000	9.074
	53 4,6-Dinitro-2-methylphenol	198	14.535	14.573	(0.915)	53139	20.0000	18.73
	54 N-Nitrosodiphenylamine	169	14.583	14.605	(0.918)	81091	10.0000	9.671
$	55 2,4,6-Tribromophenol	330	14.792	14.813	(1.096)	24404	10.0000	9.836
	56 4-Bromophenyl-phenylether	248	15.171	15.182	(0.955)	47060	10.0000	9.781
	57 Hexachlorobenzene	284	15.406	15.417	(0.969)	47735	10.0000	9.809
	58 Pentachlorophenol	266	15.694	15.711	(0.988)	29674	10.0000	9.711
*	59 Phenanthrene-d10	188	15.892	15.898	(1.000)	425474	20.0000	
	60 Phenanthrene	178	15.924	15.940	(1.002)	237421	10.0000	9.549
	61 Anthracene	178	15.999	16.015	(1.007)	236456	10.0000	9.602
	62 Carbazole	167	16.271	16.288	(1.024)	211648	10.0000	9.582
	63 Di-n-butylphthalate	149	16.966	16.977	(1.068)	266388	10.0000	9.602
	64 Fluoranthene	202	17.874	17.896	(1.125)	231153	10.0000	9.456
	65 Pyrene	202	18.237	18.254	(0.902)	239859	10.0000	9.579
$	66 Terphenyl-d14	244	18.531	18.547	(0.916)	169664	10.0000	9.710
	67 Butylbenzylphthalate	149	19.402	19.418	(0.959)	110226	10.0000	9.513
	68 Benzo(a)anthracene	228	20.203	20.225	(0.999)	219313	10.0000	9.356
*	69 Chrysene-d12	240	20.230	20.246	(1.000)	330586	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.198	20.214	(0.998)	75887	10.0000	9.639
	71 Chrysene	228	20.273	20.294	(1.002)	208012	10.0000	9.451
	72 bis(2-Ethylhexyl)phthalate	149	20.390	20.401	(0.956)	150730	10.0000	9.685
*	134 Di-n-octylphthalate-d4	153	21.330	21.341	(1.000)	664397	20.0000	
	73 Di-n-octylphthalate	149	21.336	21.347	(1.000)	275008	10.0000	9.458

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.870	21.897	(0.976)	213102	10.0000	9.133
75	Benzo(k)fluoranthene	252	21.902	21.934	(0.977)	232669	10.0000	9.598
76	Benzo(a)pyrene	252	22.329	22.351	(0.996)	202545	10.0000	9.475
* 77	Perylene-d12	264	22.409	22.420	(1.000)	390155	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.167	24.221	(1.078)	271918	10.0000	9.627 (M)
79	Dibenzo(a,h)anthracene	278	24.194	24.242	(1.080)	226283	10.0000	9.800 (M)
80	Benzo(g,h,i)perylene	276	24.664	24.728	(1.101)	238904	10.0000	9.612 (M)
90	N-Nitrosodimethylamine	74	4.161	4.193	(0.484)	79947	10.0000	9.323 (M)
103	Pyridine	79	4.171	4.150	(0.486)	142600	10.0000	9.496 (M)
91	Aniline	93	8.135	8.152	(0.947)	194699	10.0000	9.380
105	1-methylnaphthalene	141	11.955	11.966	(1.125)	154265	10.0000	9.489
93	Benzidine	184	18.109	18.120	(0.895)	92809	10.0000	9.648
98	Retene	219	18.788	18.804	(0.929)	111759	10.0000	9.872
111	Azobenzene (1,2-DP-Hydrazine)	77	14.637	14.653	(1.084)	273894	10.0000	9.583
144	alpha-Terpineol	59	10.667	10.684	(1.004)	72342	10.0000	10.00
143	1,4-Dioxane	88	3.408	3.402	(0.397)	47199	10.0000	9.586
$ 137	d8-1,4-Dioxane	96	3.343	3.338	(0.389)	45608	10.0000	9.457
133	Butylatedhydroxytoluene	205	13.648	13.659	(1.011)	145184	10.0000	9.529
115	Tributyl Phosphate	99	14.658	14.685	(0.922)	244750	10.0000	9.833
116	Dibutyl Phenyl Phosphate	175	16.405	16.421	(1.032)	166917	10.0000	9.823
117	Butyl Diphenyl Phosphate	94	18.109	18.120	(0.895)	61756	10.0000	9.704
118	Triphenyl Phosphate	326	19.728	19.739	(0.975)	38812	10.0000	10.16

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 0100815.d
Lab Smp Id: ABN 10
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

Calibration Date: 15-AUG-2006
Calibration Time: 08:55
Client Smp ID: ABN 10
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144618	72309	289236	153722	6.30
27 Naphthalene-d8	543038	271519	1086076	568236	4.64
42 Acenaphthene-d10	285517	142758	571034	298640	4.60
59 Phenanthrene-d10	409554	204777	819108	425474	3.89
69 Chrysene-d12	311119	155560	622238	330586	6.26
134 Di-n-octylphthala	651942	325971	1303884	664397	1.91
77 Perylene-d12	362847	181424	725694	390155	7.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.59	8.09	9.09	8.59	0.01
27 Naphthalene-d8	10.63	10.13	11.13	10.63	0.01
42 Acenaphthene-d10	13.50	13.00	14.00	13.50	-0.04
59 Phenanthrene-d10	15.89	15.39	16.39	15.89	0.00
69 Chrysene-d12	20.23	19.73	20.73	20.23	-0.02
134 Di-n-octylphthala	21.33	20.83	21.83	21.33	0.00
77 Perylene-d12	22.41	21.91	22.91	22.41	-0.02

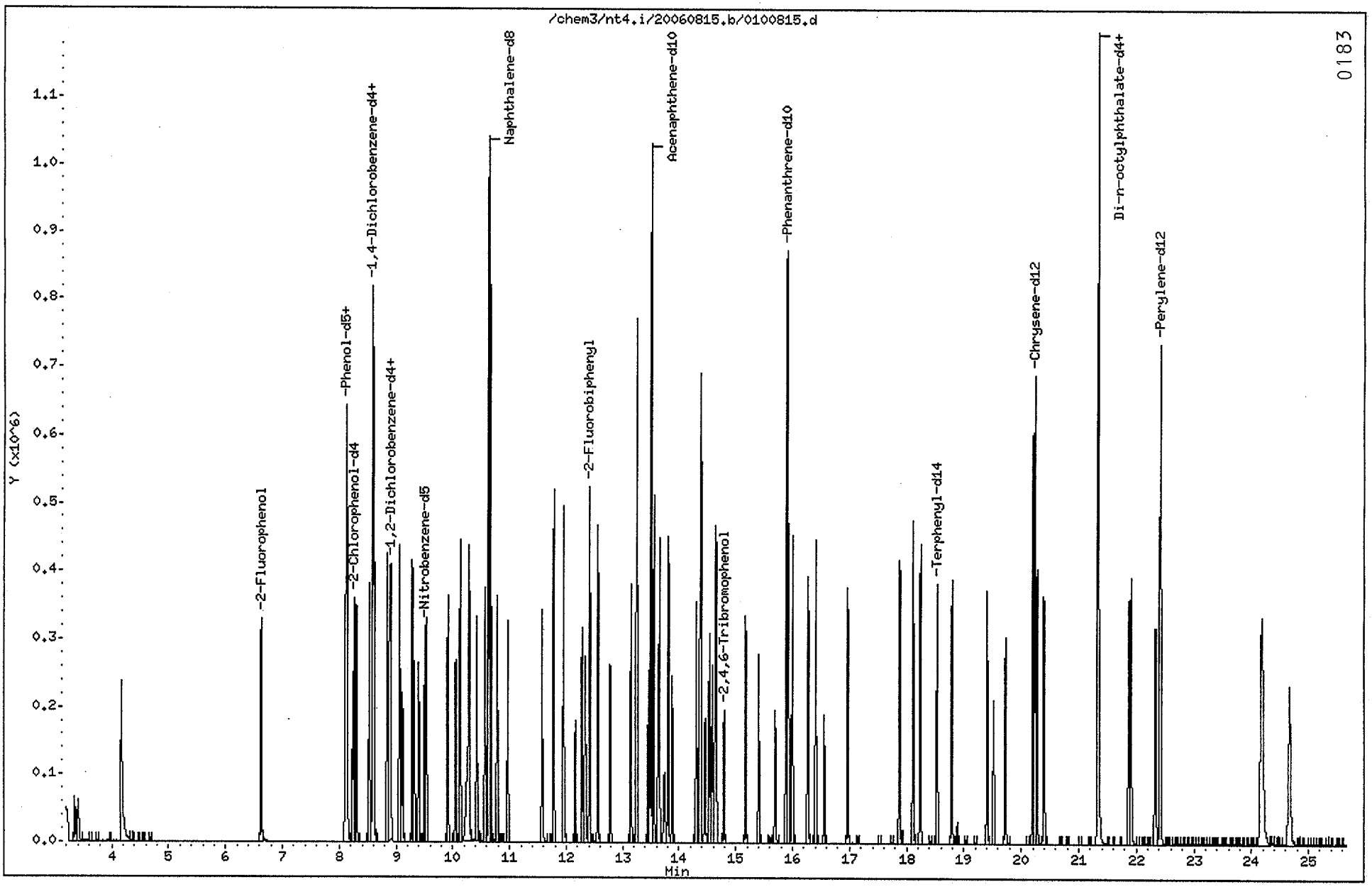
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060815.b/0100815.d
Date : 15-AUG-2006 11:40
Client ID: ABN 10
Sample Info: ABN 10

Instrument: nt4.i

Operator: VTS
Column diameter: 0.32

Column phase: ZB-5



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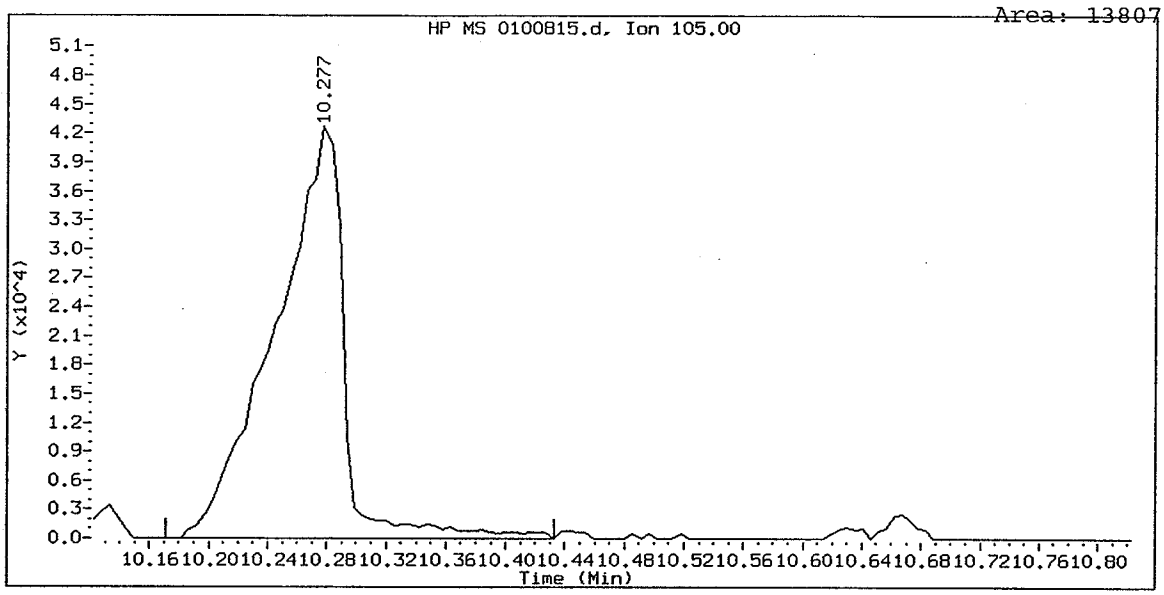
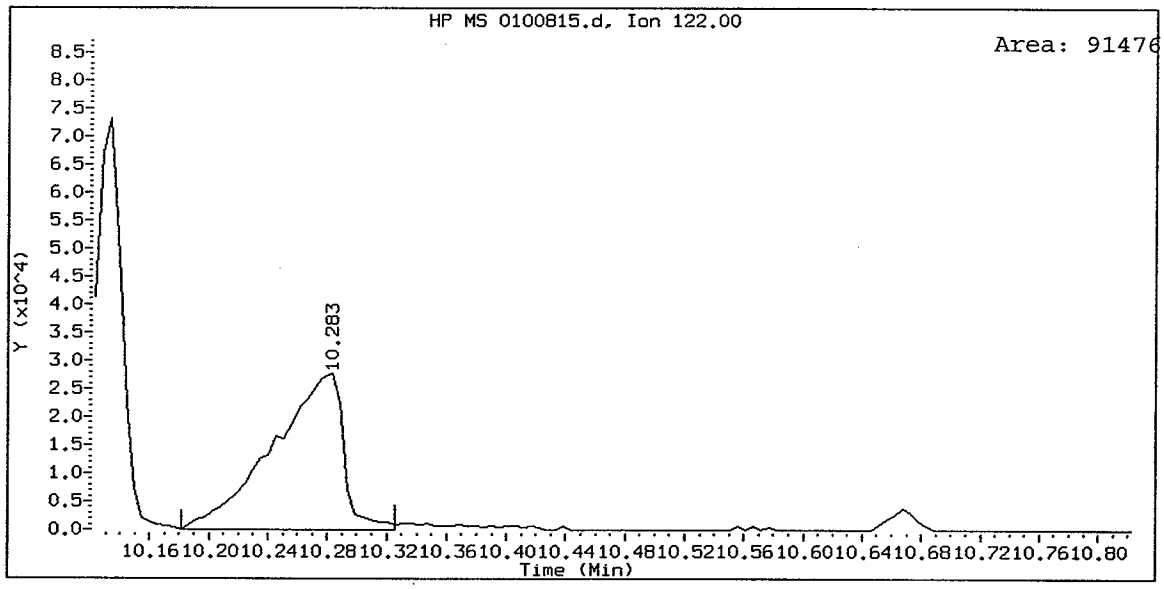
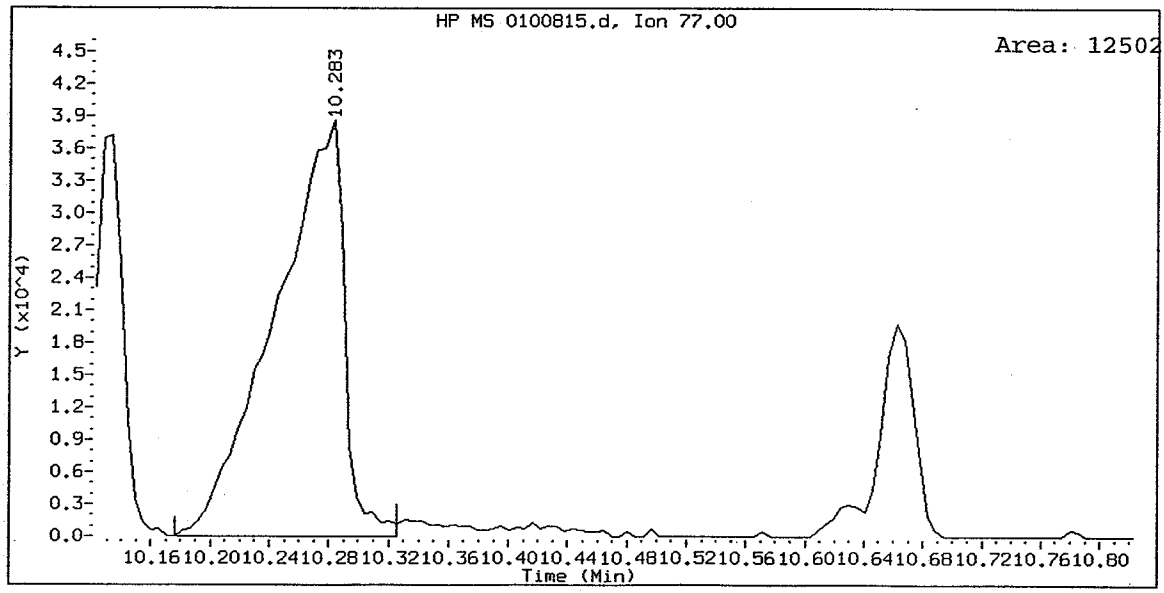
Benzoic acid Amount: 18.20







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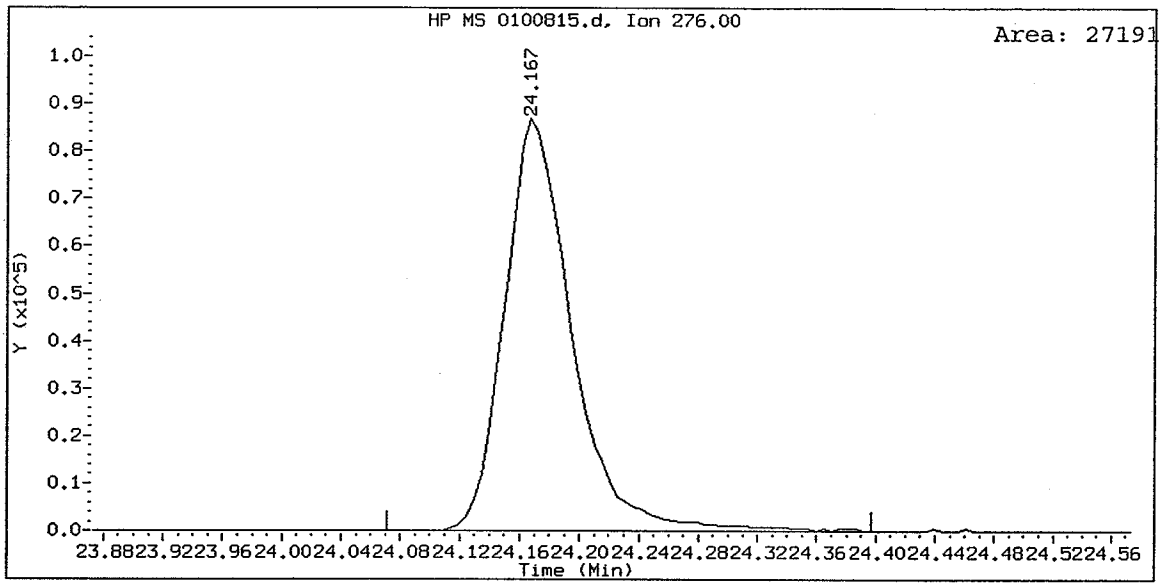
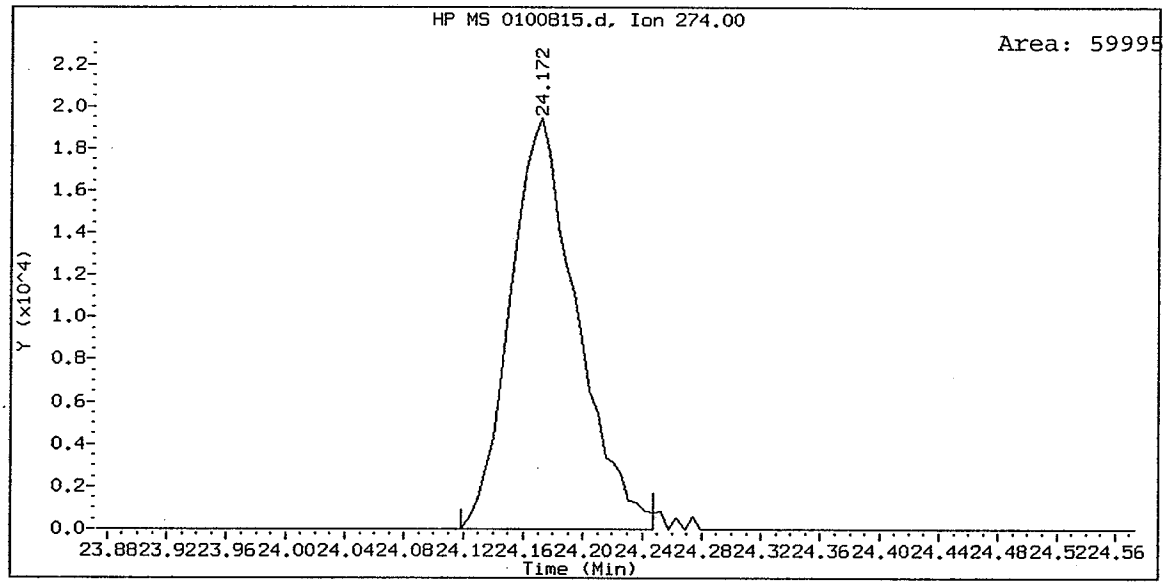
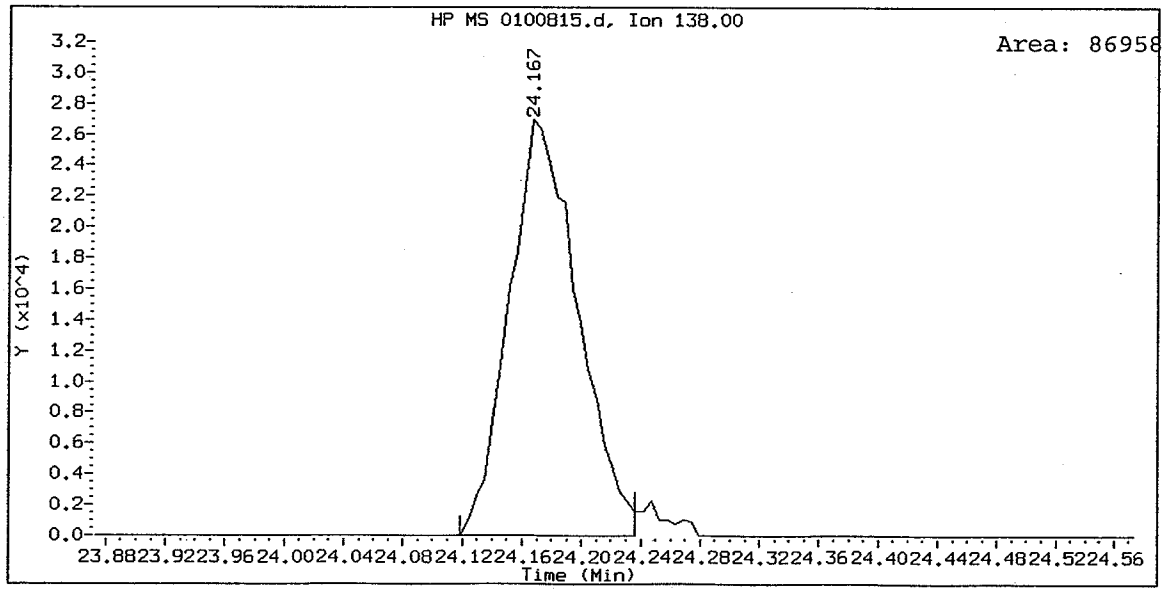
Indeno(1,2,3-cd)pyrene Amount: 9.63







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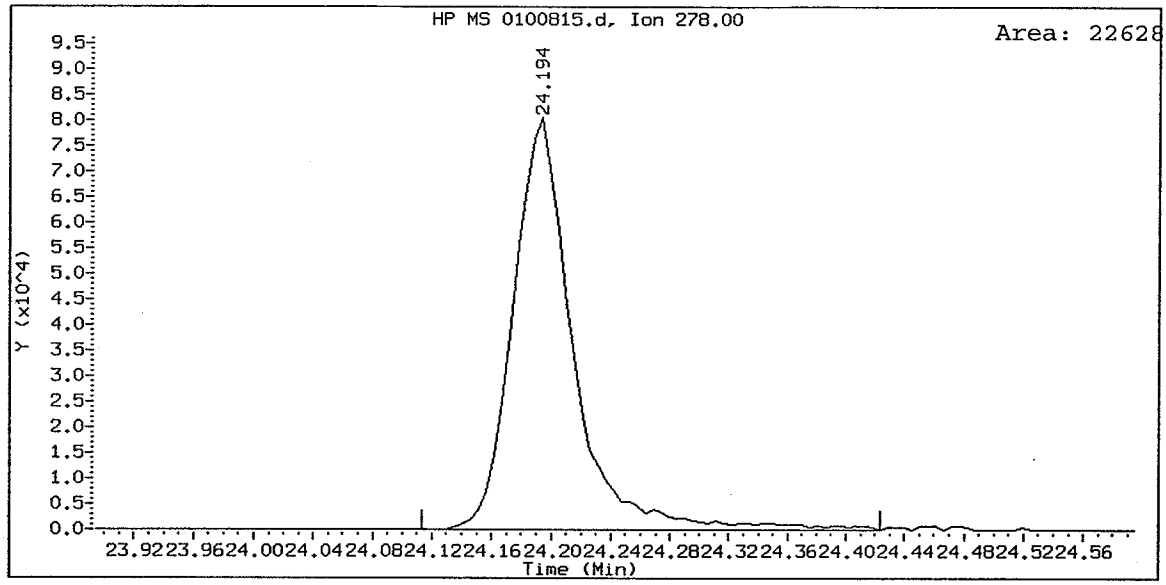
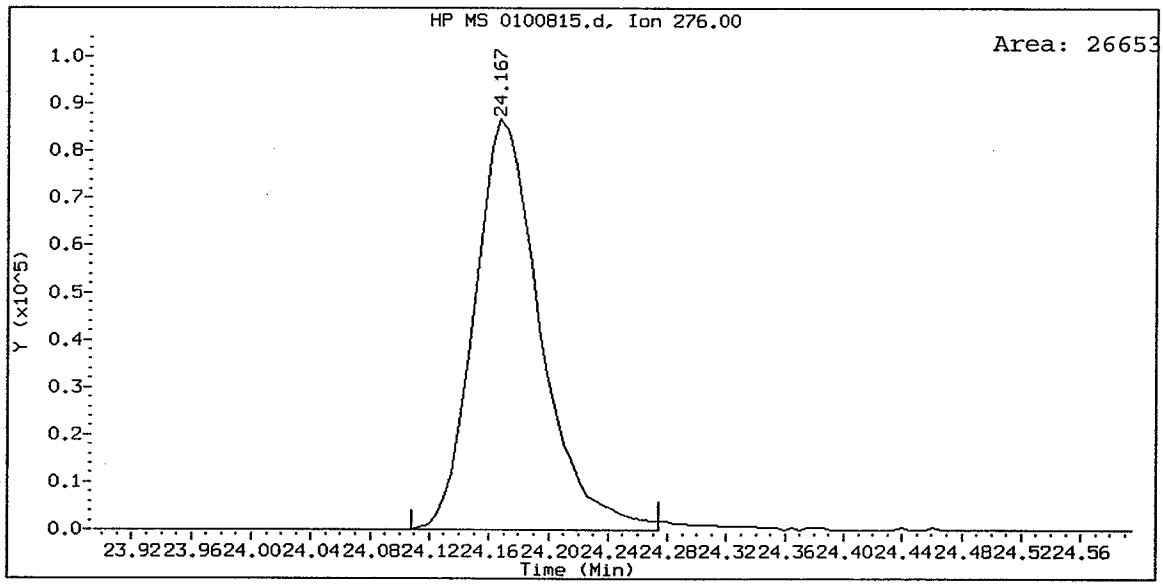
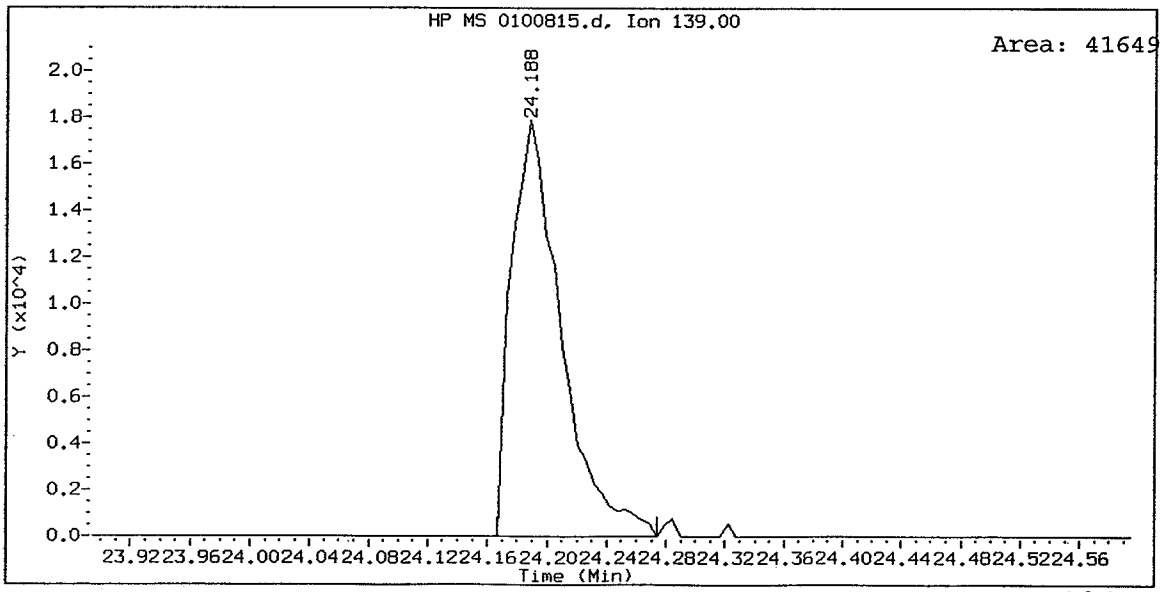
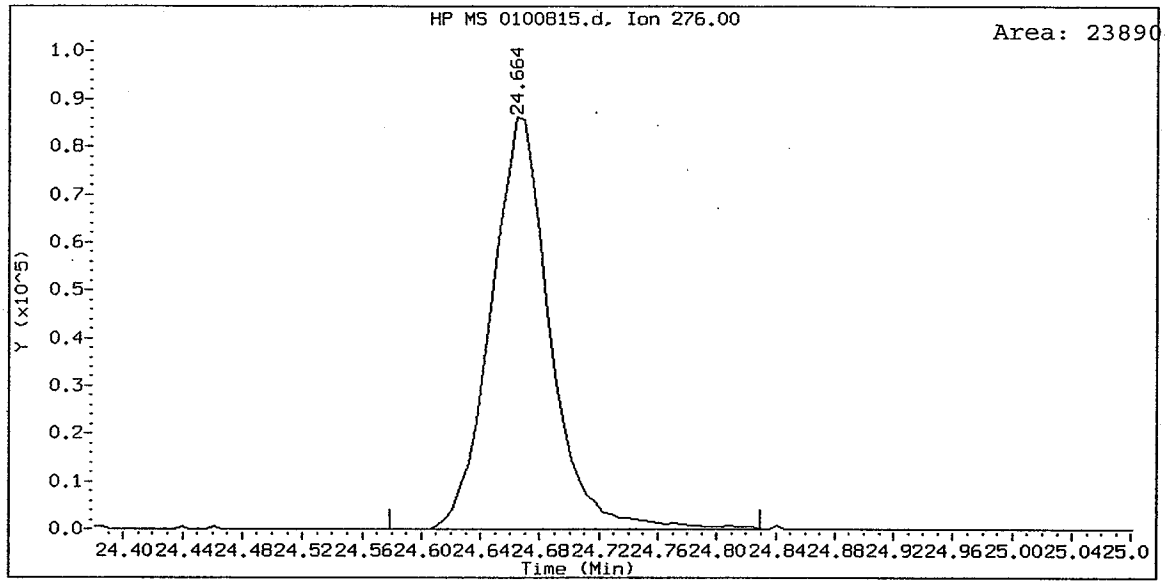
Dibenzo(a,h)anthracene Amount: 9.80

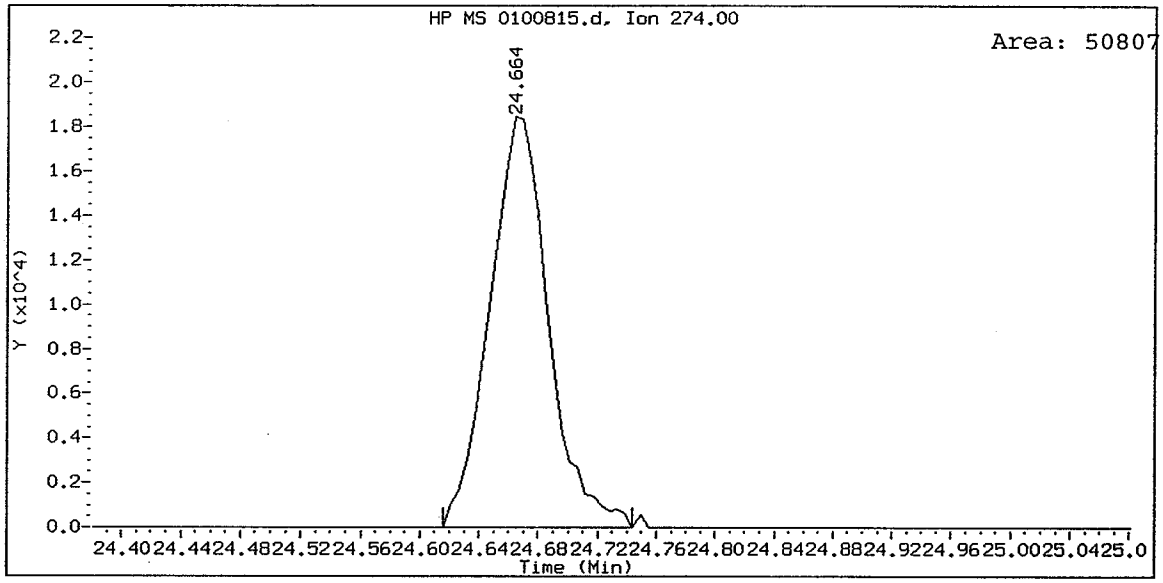


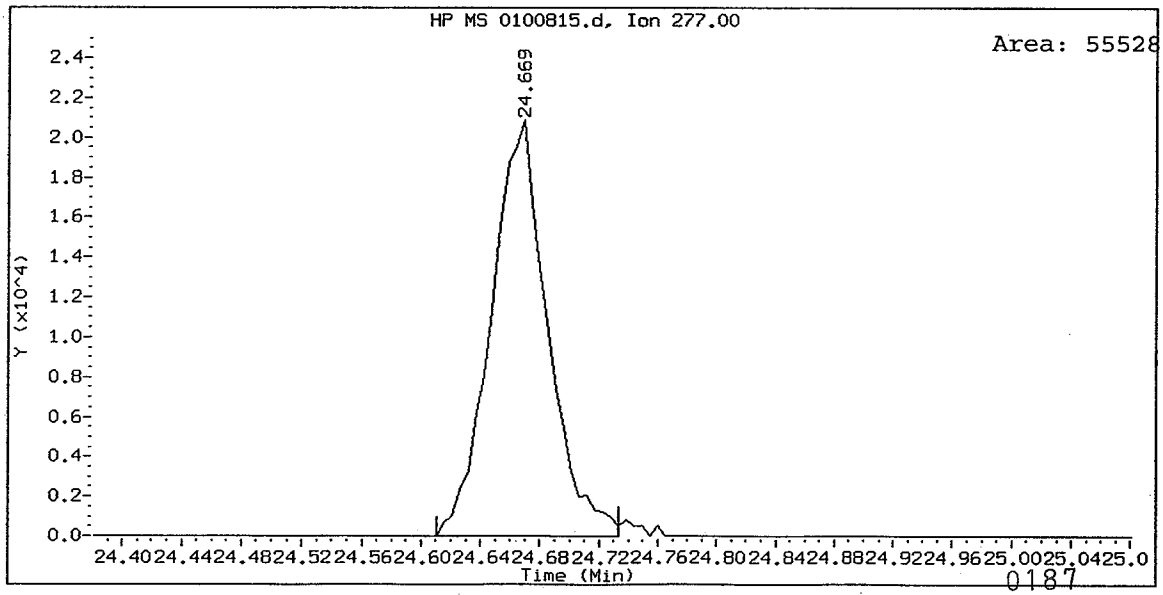




ABN 10, /chem3/nt4.i/20060815.b/0100815.d
Benzo(g,h,i)perylene Amount: 9.61







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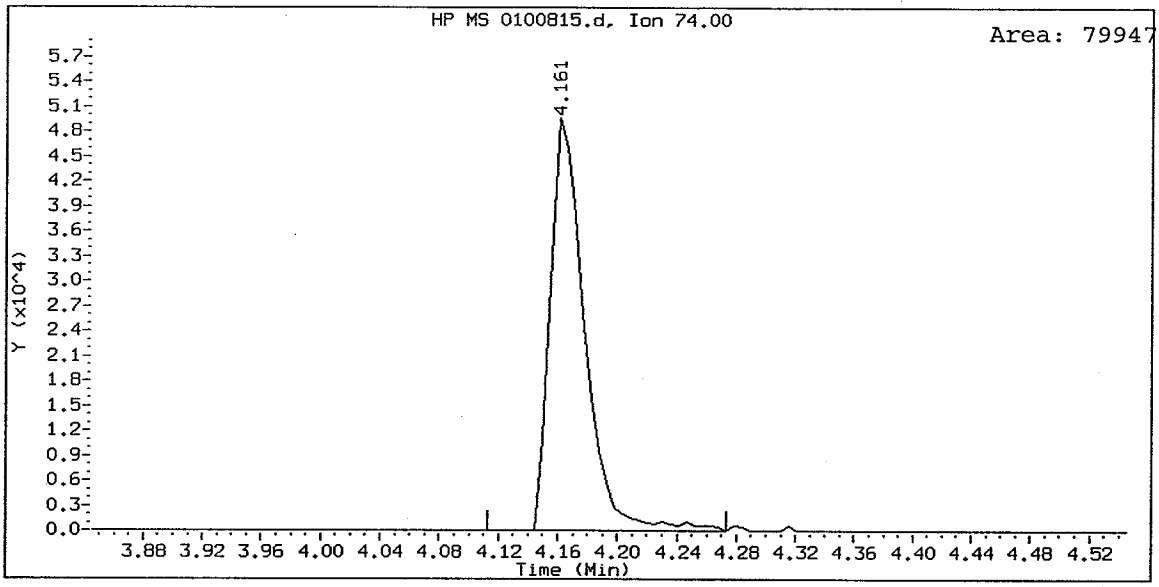
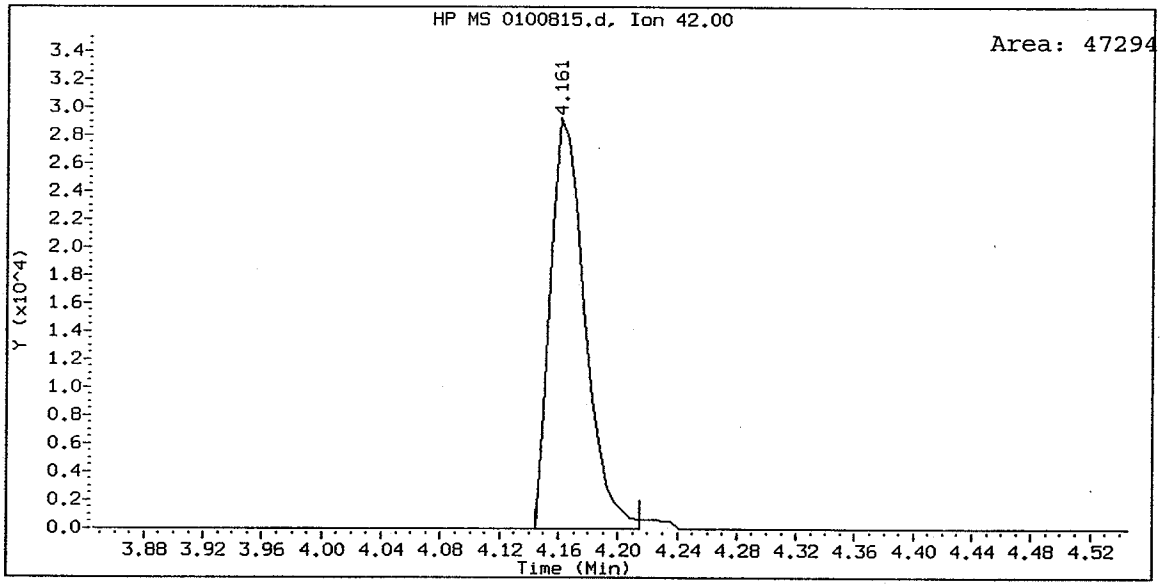
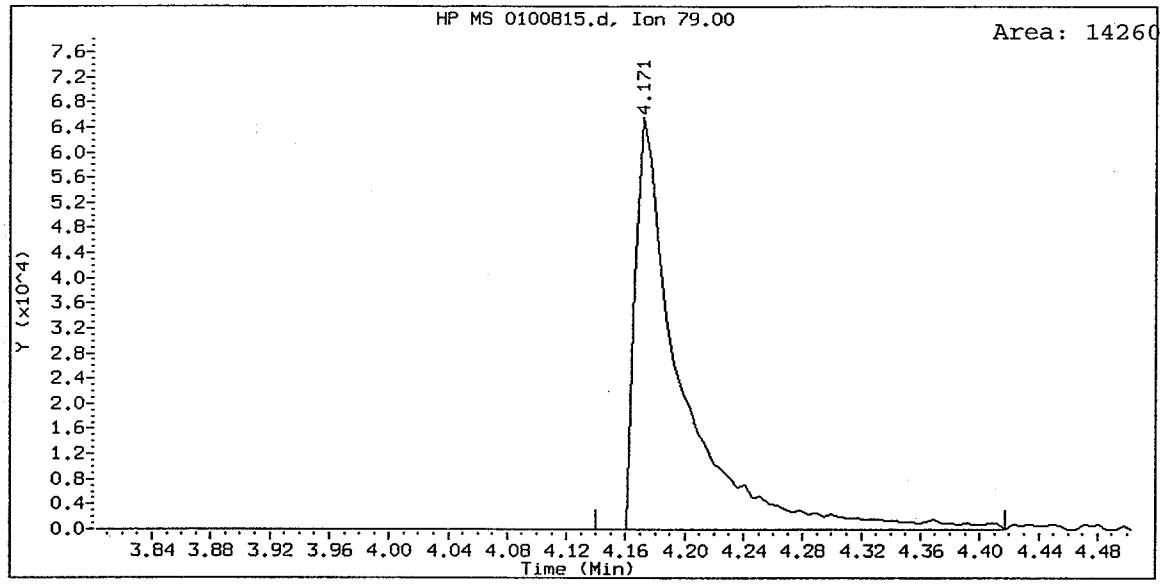
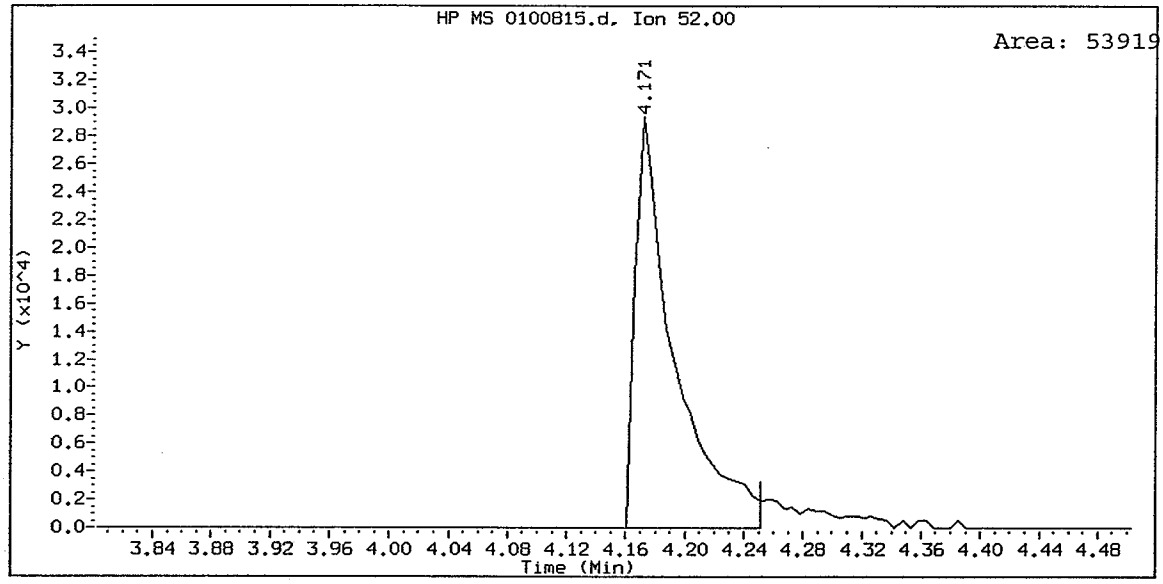
N-Nitrosodimethylamine Amount: 9.32



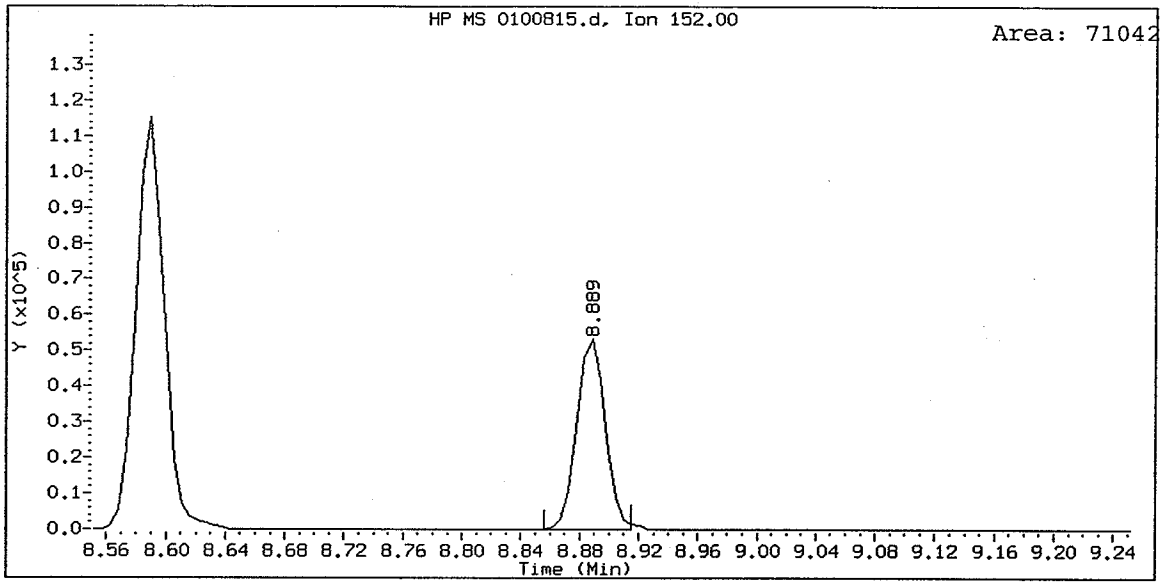


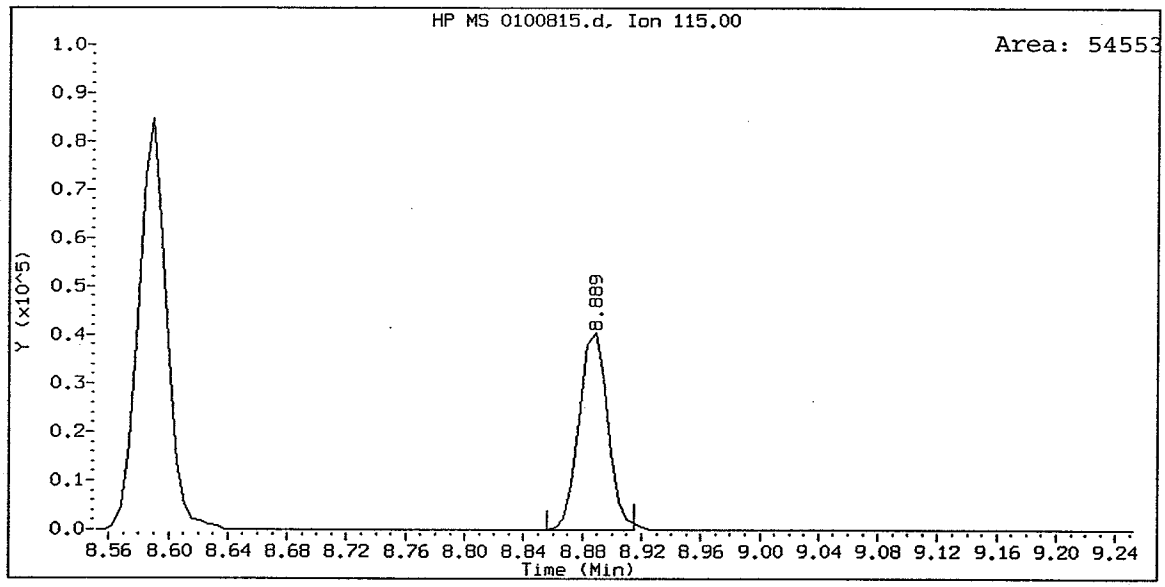
ABN 10, /chem3/nt4.i/20060815.b/0100815.d
Pyridine Amount: 9.50

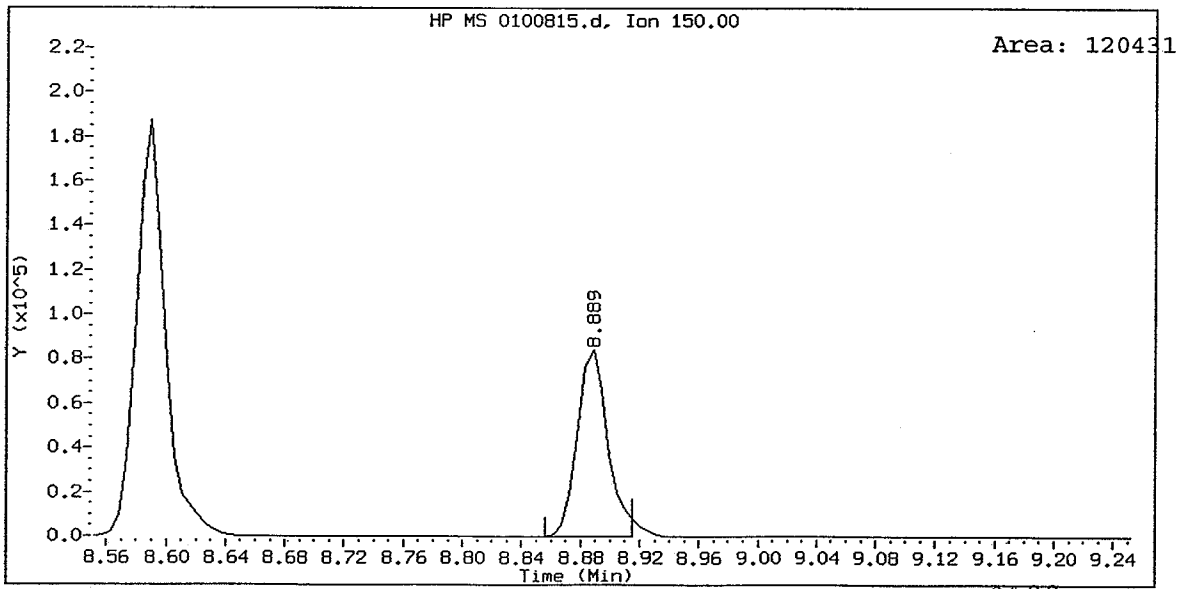




ABN 10, /chem3/nt4.i/20060815.b/0100815.d
1,2-Dichlorobenzene-d4 Amount: 9.86







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060815.b/0250815.d
Lab Smp Id: ABN 25 Client Smp ID: ABN 25
Inj Date : 15-AUG-2006 08:55
Operator : VTS Inst ID: nt4.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060815.b/SW846.m
Meth Date : 16-Aug-2006 11:59 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LTK 8/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.628	6.640	(0.772)	297772	25.0000	25.81
$	2 Phenol-d5	99	8.113	8.136	(0.945)	356981	25.0000	25.62
	3 Phenol	94	8.135	8.157	(0.947)	438648	25.0000	26.09
$	5 2-Chlorophenol-d4	132	8.284	8.296	(0.965)	287013	25.0000	25.57
	4 Bis(2-Chloroethyl)ether	93	8.247	8.264	(0.960)	300048	25.0000	25.44
	6 2-Chlorophenol	128	8.311	8.317	(0.968)	265890	25.0000	26.16
	7 1,3-Dichlorobenzene	146	8.530	8.536	(0.993)	275962	25.0000	25.56
*	8 1,4-Dichlorobenzene-d4	152	8.589	8.595	(1.000)	144618	20.0000	
	9 1,4-Dichlorobenzene	146	8.616	8.622	(1.003)	284563	25.0000	25.62
$	10 1,2-Dichlorobenzene-d4	152	8.888	8.899	(1.035)	172608	25.0000	25.47
	12 1,2-Dichlorobenzene	146	8.909	8.921	(1.037)	262736	25.0000	25.60
	11 Benzyl alcohol	108	8.851	8.867	(1.030)	199729	25.0000	26.15
	14 2,2'-oxybis(1-Chloropropane)	45	9.112	9.119	(1.061)	246989	25.0000	26.17
	13 2-Methylphenol	108	9.064	9.076	(1.055)	259439	25.0000	26.26
	17 Hexachloroethane	117	9.401	9.402	(1.095)	120565	25.0000	25.82
	16 N-Nitroso-di-n-propylamine	70	9.331	9.354	(1.086)	257689	25.0000	26.06
	15 4-Methylphenol	108	9.294	9.311	(1.082)	271502	25.0000	26.76
$	18 Nitrobenzene-d5	82	9.513	9.525	(0.895)	395455	25.0000	25.26
	19 Nitrobenzene	77	9.540	9.557	(0.897)	392671	25.0000	25.34
	20 Isophorone	82	9.919	9.941	(0.933)	627893	25.0000	25.97
	21 2-Nitrophenol	139	10.053	10.064	(0.946)	136820	25.0000	25.49
	22 2,4-Dimethylphenol	107	10.138	10.150	(0.954)	297351	25.0000	26.72
	23 Bis(2-Chloroethoxy)methane	93	10.293	10.304	(0.968)	351300	25.0000	26.10
	24 Benzoic acid	105	10.341	10.470	(0.973)	375628	50.0000	51.82 (M)
	25 2,4-Dichlorophenol	162	10.426	10.443	(0.981)	189217	25.0000	26.18
	26 1,2,4-Trichlorobenzene	180	10.571	10.577	(0.994)	209893	25.0000	25.70
*	27 Naphthalene-d8	136	10.629	10.636	(1.000)	543038	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.662	10.673	(1.003)	730006	25.0000	25.10
	29 4-Chloroaniline	127	10.790	10.801	(1.015)	302019	25.0000	25.62
	30 Hexachlorobutadiene	225	10.971	10.978	(1.032)	118352	25.0000	25.25
	31 4-Chloro-3-methylphenol	107	11.575	11.587	(1.089)	240271	25.0000	25.15
	32 2-Methylnaphthalene	141	11.783	11.790	(1.109)	386147	25.0000	25.30
	33 Hexachlorocyclopentadiene	237	12.163	12.164	(0.901)	104977	25.0000	27.35
	34 2,4,6-Trichlorophenol	196	12.286	12.292	(0.910)	127026	25.0000	25.68
	35 2,4,5-Trichlorophenol	196	12.339	12.351	(0.914)	132640	25.0000	25.48
$	36 2-Fluorobiphenyl	172	12.419	12.431	(0.920)	488897	25.0000	25.08
	37 2-Chloronaphthalene	162	12.569	12.575	(0.931)	417059	25.0000	25.51
	38 2-Nitroaniline	65	12.788	12.799	(0.947)	179731	25.0000	25.30
	39 Dimethylphthalate	163	13.151	13.168	(0.974)	454193	25.0000	25.49
	40 Acenaphthylene	152	13.252	13.259	(0.981)	667311	25.0000	25.39
	41 2,6-Dinitrotoluene	165	13.252	13.264	(0.981)	108020	25.0000	25.56
*	42 Acenaphthene-d10	164	13.504	13.510	(1.000)	285517	20.0000	
	43 3-Nitroaniline	138	13.466	13.483	(0.997)	114073	25.0000	24.84
	44 Acenaphthene	153	13.557	13.563	(1.004)	418500	25.0000	25.22
	45 2,4-Dinitrophenol	184	13.632	13.649	(1.009)	63825	50.0000	47.30
	46 Dibenzofuran	168	13.813	13.825	(1.023)	546784	25.0000	24.91
	47 4-Nitrophenol	109	13.744	13.772	(1.018)	78130	25.0000	25.96(M)
	48 2,4-Dinitrotoluene	165	13.883	13.900	(1.028)	135555	25.0000	25.54
	50 Diethylphthalate	149	14.310	14.322	(1.060)	454774	25.0000	25.51
	49 Fluorene	166	14.374	14.386	(1.064)	451396	25.0000	24.70
	51 4-Chlorophenyl-phenylether	204	14.390	14.397	(1.066)	214294	25.0000	24.97
	52 4-Nitroaniline	138	14.465	14.498	(1.071)	106438	25.0000	25.66(M)
	53 4,6-Dinitro-2-methylphenol	198	14.545	14.573	(0.915)	138051	50.0000	50.55
	54 N-Nitrosodiphenylamine	169	14.588	14.605	(0.918)	206257	25.0000	25.55
$	55 2,4,6-Tribromophenol	330	14.796	14.813	(1.096)	60156	25.0000	25.36
	56 4-Bromophenyl-phenylether	248	15.176	15.182	(0.955)	118699	25.0000	25.63
	57 Hexachlorobenzene	284	15.411	15.417	(0.970)	117508	25.0000	25.09
	58 Pentachlorophenol	266	15.699	15.711	(0.988)	76412	25.0000	25.98
*	59 Phenanthrene-d10	188	15.891	15.898	(1.000)	409554	20.0000	
	60 Phenanthrene	178	15.929	15.940	(1.002)	598405	25.0000	25.00
	61 Anthracene	178	16.004	16.015	(1.007)	606357	25.0000	25.58
	62 Carbazole	167	16.276	16.288	(1.024)	528450	25.0000	24.85
	63 Di-n-butylphthalate	149	16.971	16.977	(1.068)	691842	25.0000	25.91
	64 Fluoranthene	202	17.884	17.896	(1.125)	597625	25.0000	25.40
	65 Pyrene	202	18.242	18.254	(0.902)	611345	25.0000	25.94
$	66 Terphenyl-d14	244	18.536	18.547	(0.916)	421811	25.0000	25.65
	67 Butylbenzylphthalate	149	19.407	19.418	(0.959)	293472	25.0000	26.91
	68 Benzo(a)anthracene	228	20.208	20.225	(0.999)	552174	25.0000	25.03
*	69 Chrysene-d12	240	20.235	20.246	(1.000)	311119	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.197	20.214	(0.998)	184650	25.0000	24.92
	71 Chrysene	228	20.277	20.294	(1.002)	520810	25.0000	25.14
	72 bis(2-Ethylhexyl)phthalate	149	20.395	20.401	(0.956)	399991	25.0000	26.19
*	134 Di-n-octylphthalate-d4	153	21.330	21.341	(1.000)	651942	20.0000	
	73 Di-n-octylphthalate	149	21.340	21.347	(1.000)	714669	25.0000	25.05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.875	21.897	(0.976)	526674	25.0000	24.27
75	Benzo(k)fluoranthene	252	21.912	21.934	(0.978)	587177	25.0000	26.05
76	Benzo(a)pyrene	252	22.334	22.351	(0.996)	505556	25.0000	25.43
* 77	Perylene-d12	264	22.414	22.420	(1.000)	362847	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.182	24.221	(1.079)	674712	25.0000	25.69
79	Dibenzo(a,h)anthracene	278	24.204	24.242	(1.080)	562995	25.0000	26.22
80	Benzo(g,h,i)perylene	276	24.685	24.728	(1.101)	599798	25.0000	25.95
90	N-Nitrosodimethylamine	74	4.171	4.193	(0.486)	211035	25.0000	26.16 (M)
103	Pyridine	79	4.160	4.150	(0.484)	373698	25.0000	26.45 (M)
91	Aniline	93	8.140	8.152	(0.948)	497967	25.0000	25.50
105	1-methylnaphthalene	141	11.954	11.966	(1.125)	391753	25.0000	25.22
93	Benzidine	184	18.114	18.120	(0.895)	229446	25.0000	25.34
98	Retene	219	18.792	18.804	(0.929)	282086	25.0000	26.48
111	Azobenzene (1,2-DP-Hydrazine)	77	14.641	14.653	(1.084)	694516	25.0000	25.42
144	alpha-Terpineol	59	10.672	10.684	(1.004)	178479	25.0000	25.82
143	1,4-Dioxane	88	3.407	3.402	(0.397)	121809	25.0000	26.30
$ 137	d8-1,4-Dioxane	96	3.343	3.338	(0.389)	118126	25.0000	26.04
133	Butylatedhydroxytoluene	205	13.653	13.659	(1.011)	373675	25.0000	25.65
115	Tributyl Phosphate	99	14.663	14.685	(0.923)	630531	25.0000	26.32
116	Dibutyl Phenyl Phosphate	175	16.410	16.421	(1.033)	427209	25.0000	26.12
117	Butyl Diphenyl Phosphate	94	18.114	18.120	(0.895)	163514	25.0000	27.30
118	Triphenyl Phosphate	326	19.727	19.739	(0.975)	96435	25.0000	26.82

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 0250815.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

Calibration Date: 15-AUG-2006
Calibration Time: 08:55
Client Smp ID: ABN 25
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144618	72309	289236	144618	0.00
27 Naphthalene-d8	543038	271519	1086076	543038	0.00
42 Acenaphthene-d10	285517	142758	571034	285517	0.00
59 Phenanthrene-d10	409554	204777	819108	409554	0.00
69 Chrysene-d12	311119	155560	622238	311119	0.00
134 Di-n-octylphthala	651942	325971	1303884	651942	0.00
77 Perylene-d12	362847	181424	725694	362847	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.59	8.09	9.09	8.59	0.00
27 Naphthalene-d8	10.63	10.13	11.13	10.63	0.00
42 Acenaphthene-d10	13.50	13.00	14.00	13.50	0.00
59 Phenanthrene-d10	15.89	15.39	16.39	15.89	0.00
69 Chrysene-d12	20.23	19.73	20.73	20.23	0.00
134 Di-n-octylphthala	21.33	20.83	21.83	21.33	0.00
77 Perylene-d12	22.41	21.91	22.91	22.41	0.00

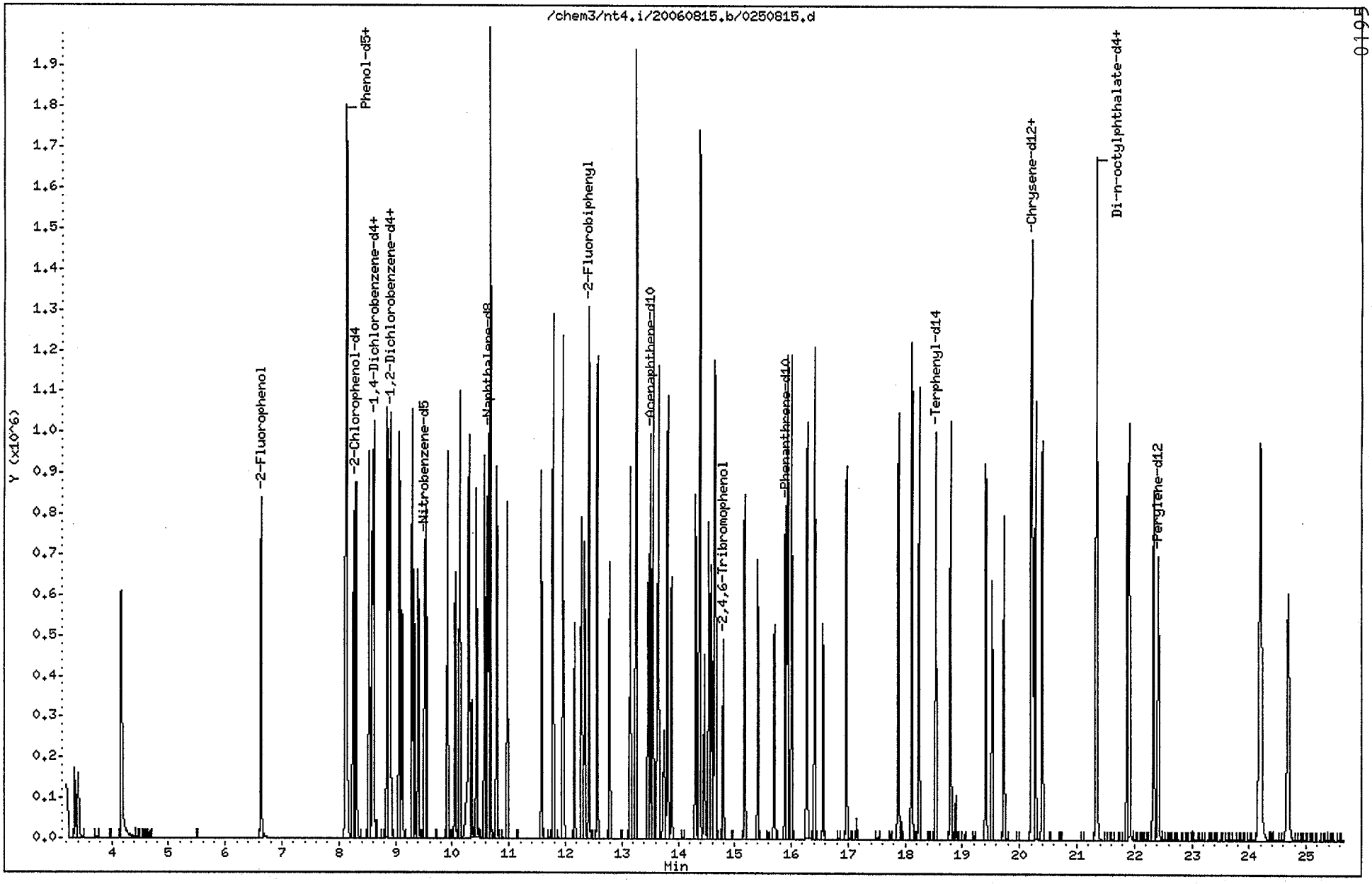
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060815.b/0250815.d
Date : 15-AUG-2006 08:55
Client ID: ABN 25
Sample Info: ABN 25

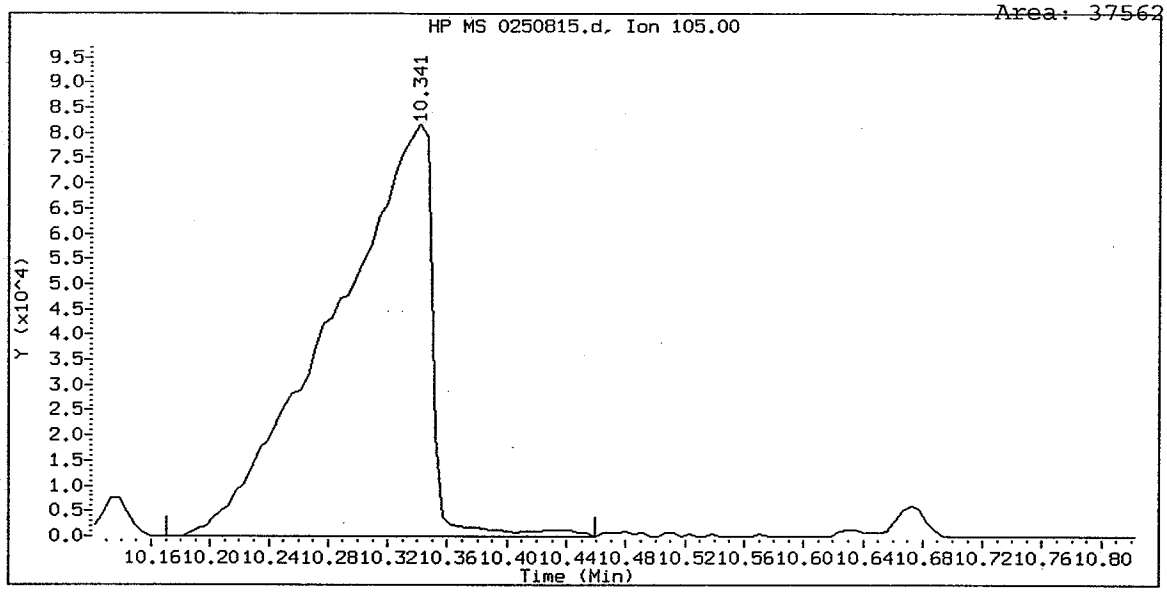
Instrument: nt4.i

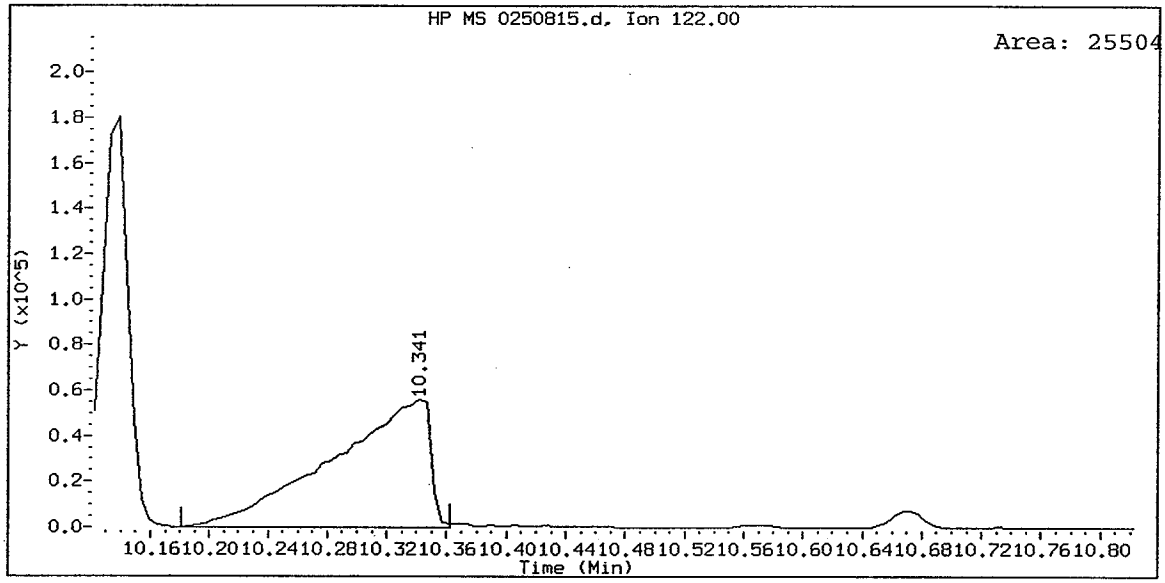
Operator: VTS
Column diameter: 0.32

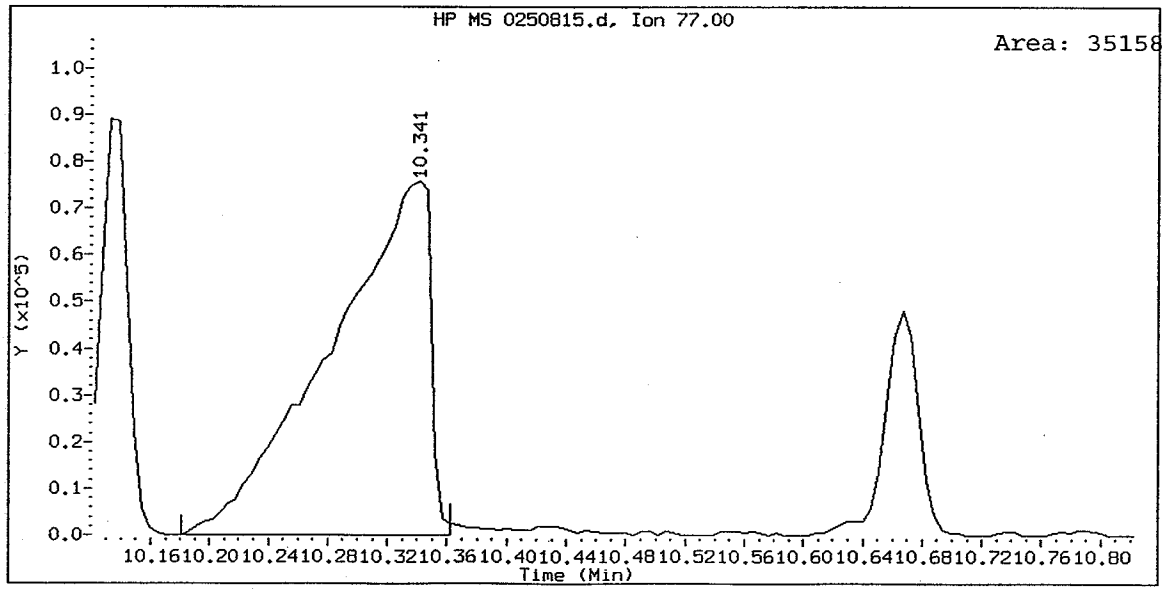
Column phase: ZB-5



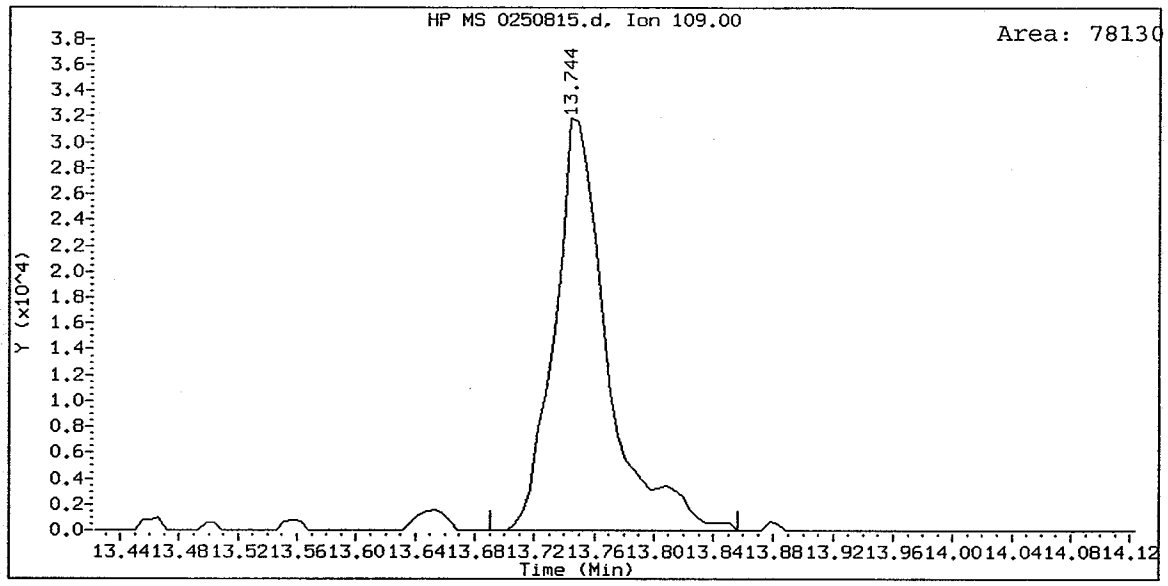
ABN 25, /chem3/nt4.i/20060815.b/0250815.d
Benzoic acid Amount: 51.82

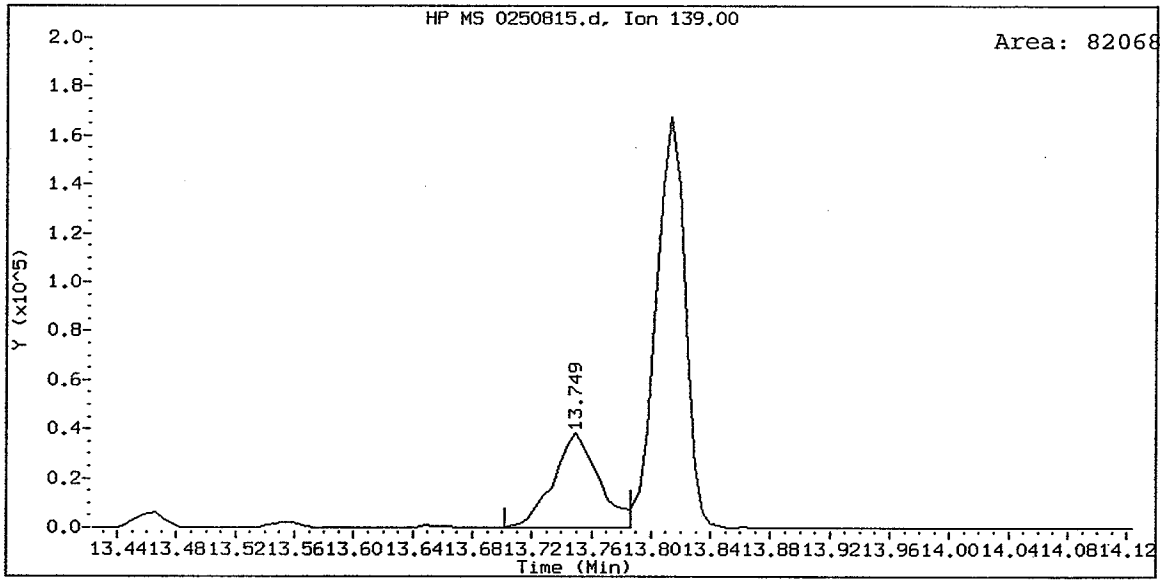


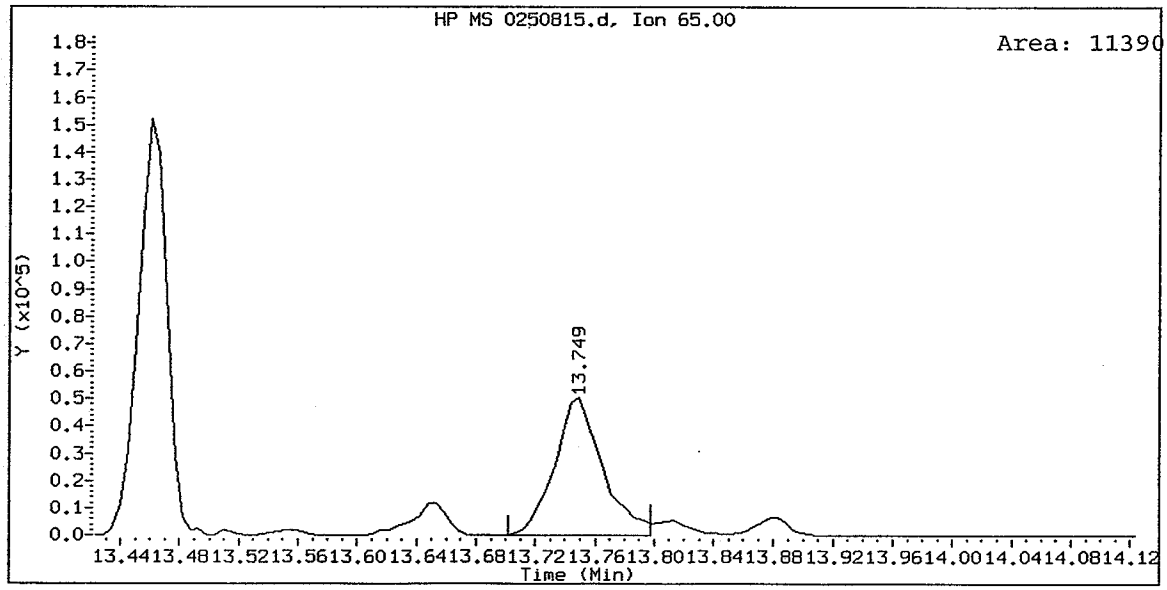




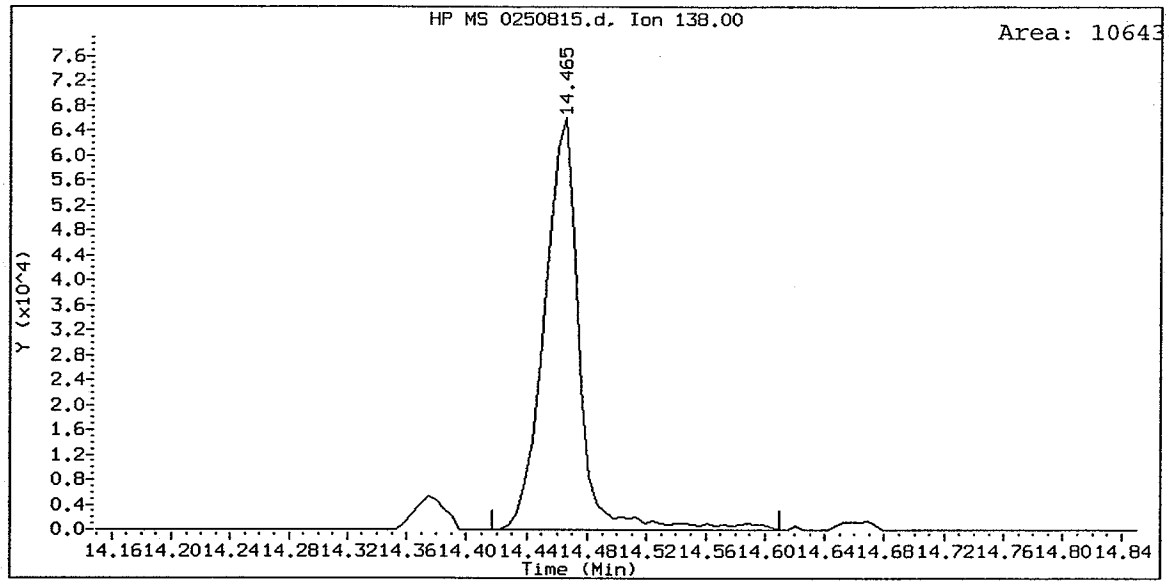
ABN 25, /chem3/nt4.i/20060815.b/0250815.d
4-Nitrophenol Amount: 25.96

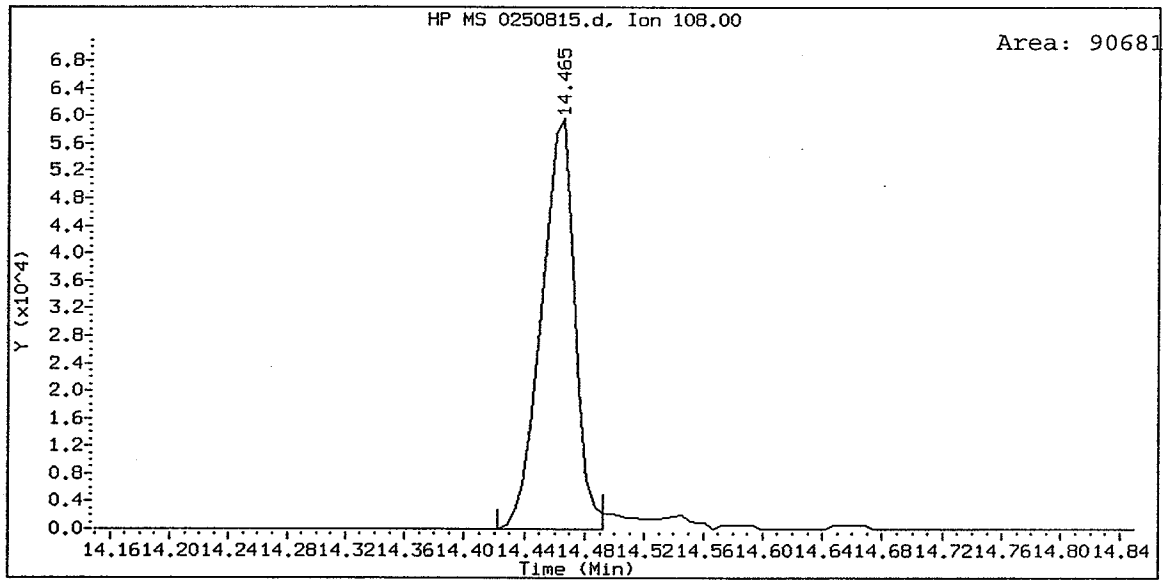


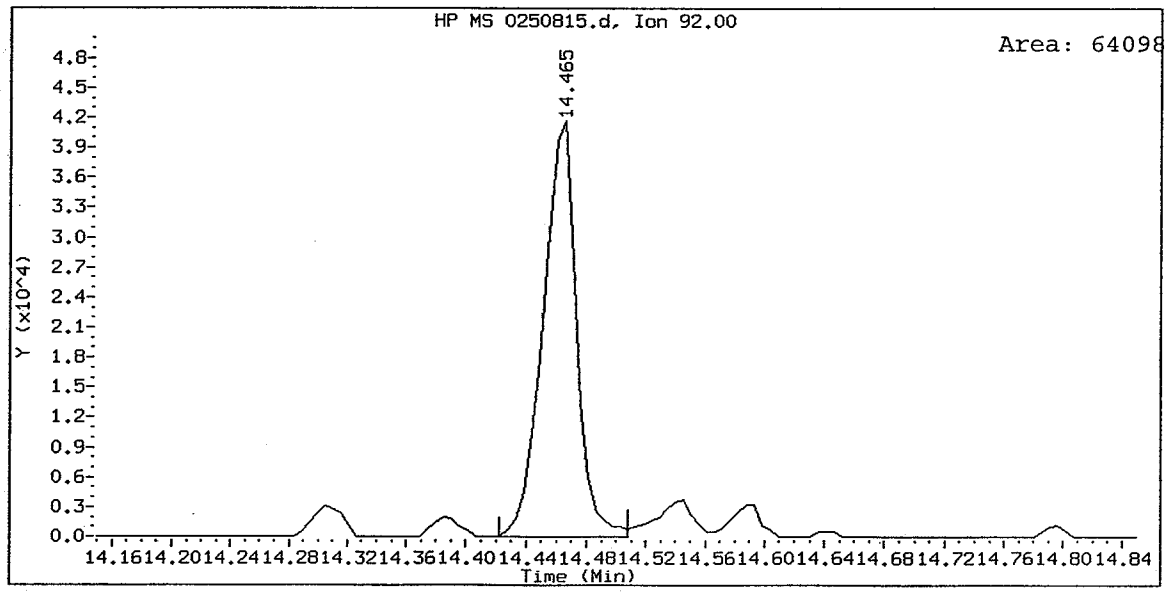




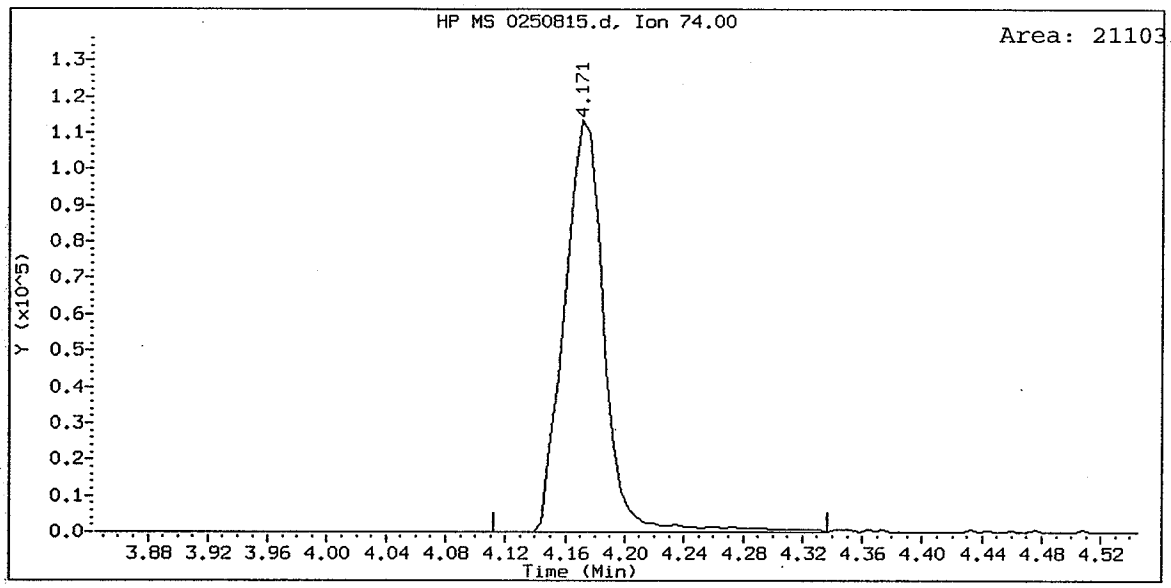
ABN 25, /chem3/nt4.i/20060815.b/0250815.d
4-Nitroaniline Amount: 25.66

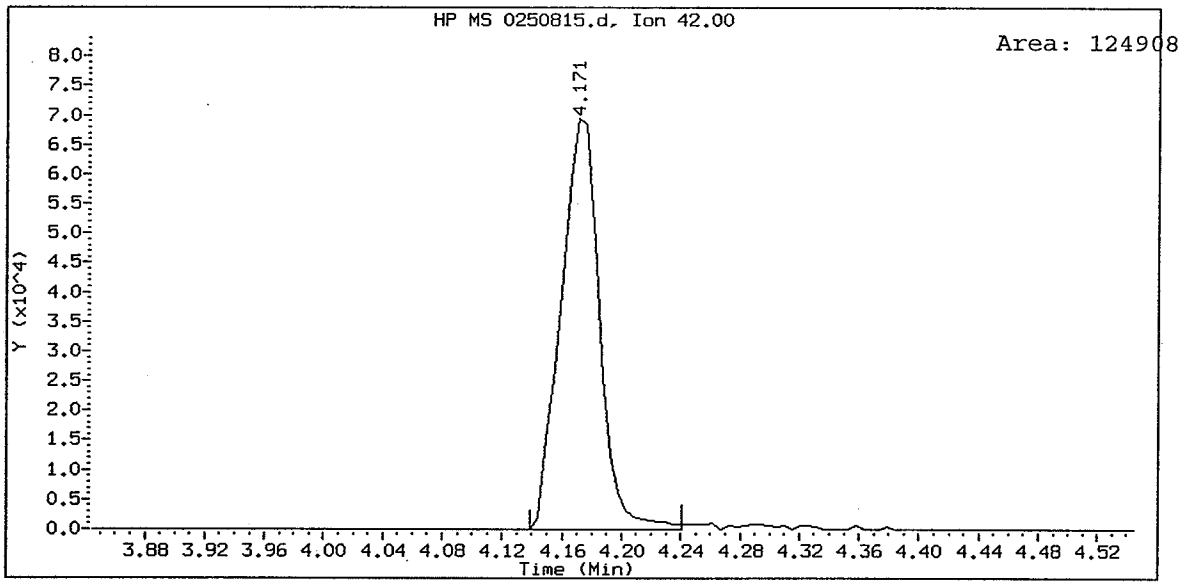




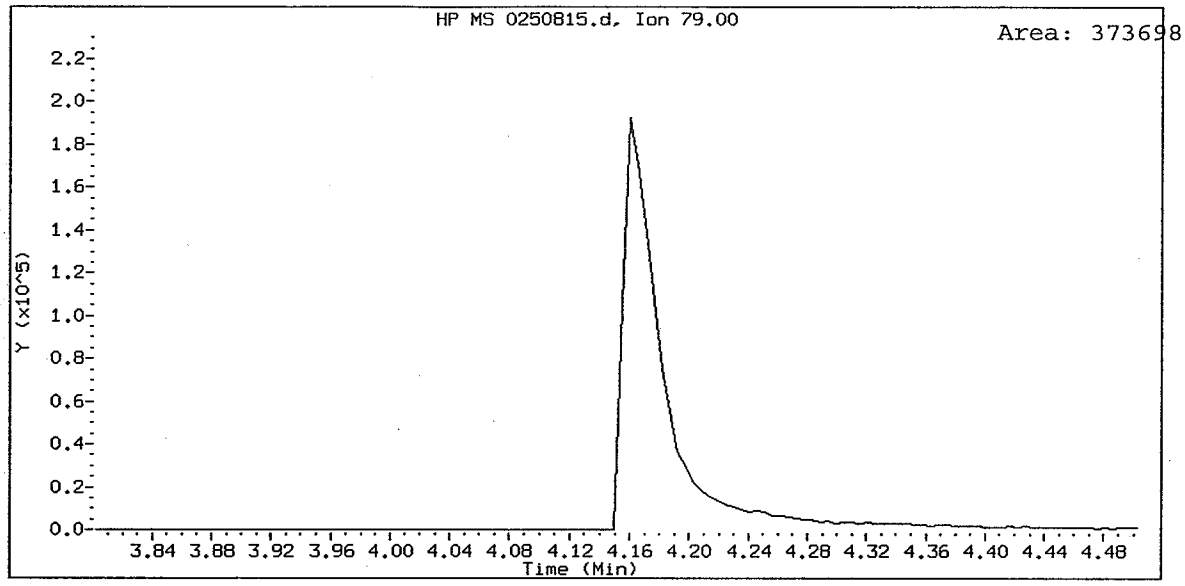


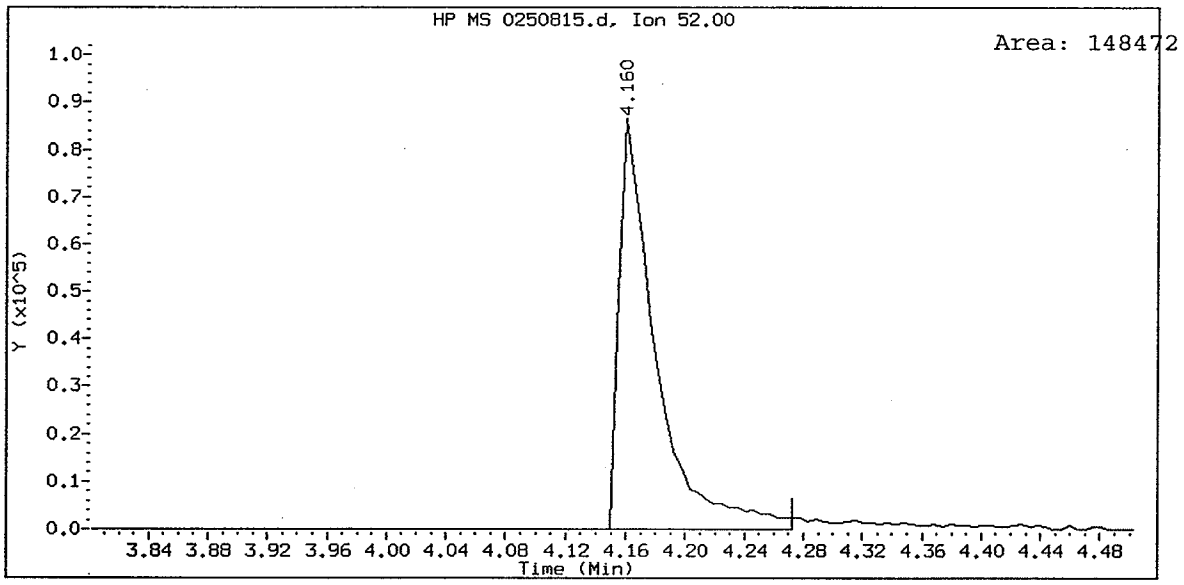
ABN 25, /chem3/nt4.i/20060815.b/0250815.d
N-Nitrosodimethylamine Amount: 26.16





ABN 25, /chem3/nt4.i/20060815.b/0250815.d
Pyridine Amount: 26.45





Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20060815.b/ddt.b/0250815.d ARI ID:
Method: /chem3/nt4.i/20060815.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 15-AUG-2006 08:55 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	15.699	76040
Benzidine	18.114	231787
4,4'-DDE	----	----
4,4'-DDD	19.043	5715
4,4'-DDT	19.519	151764

LJK
8/16/06

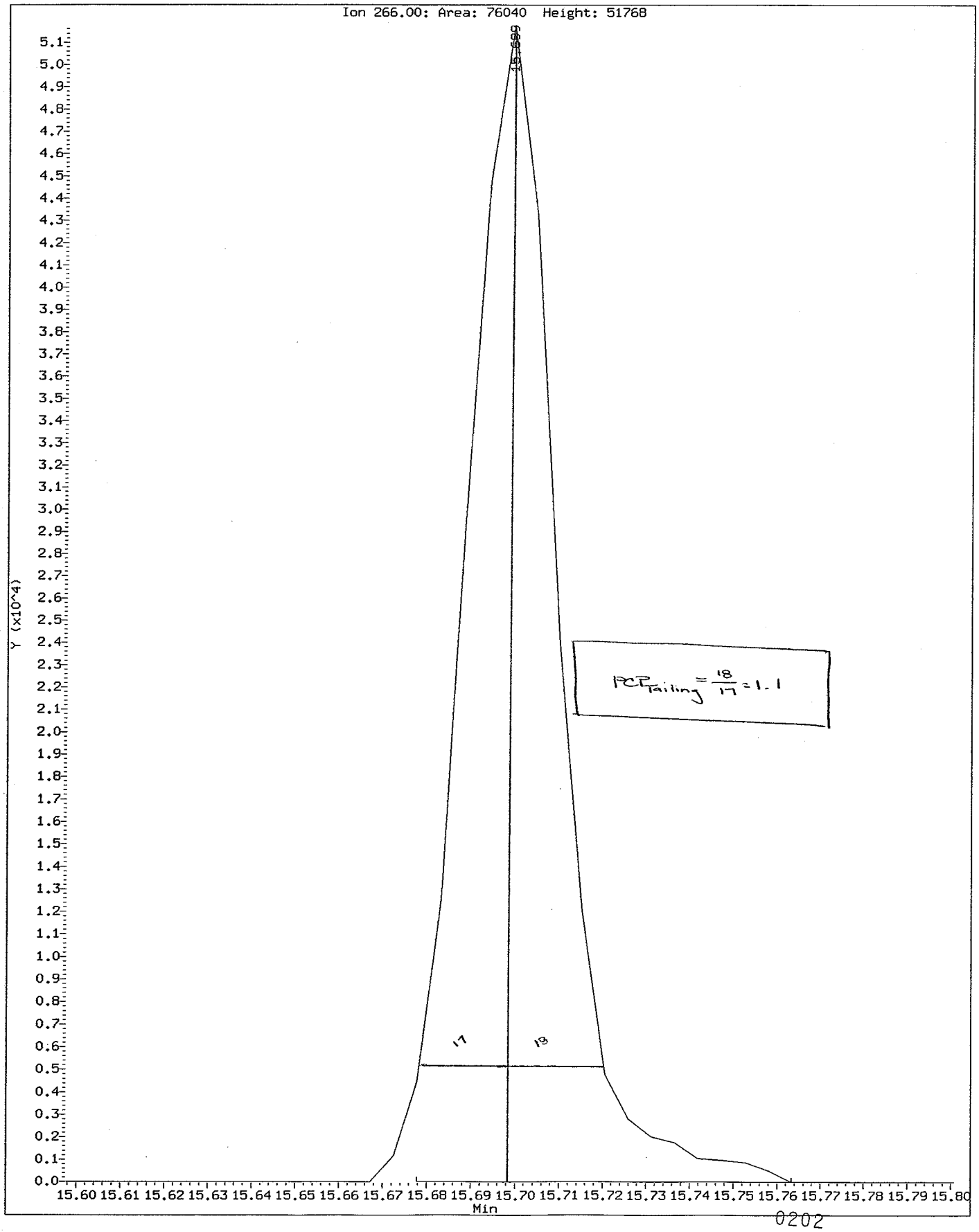
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 5715) * 100}{(0 + 5715 + 151764)}$$

DDT Percent Breakdown = 3.6 %

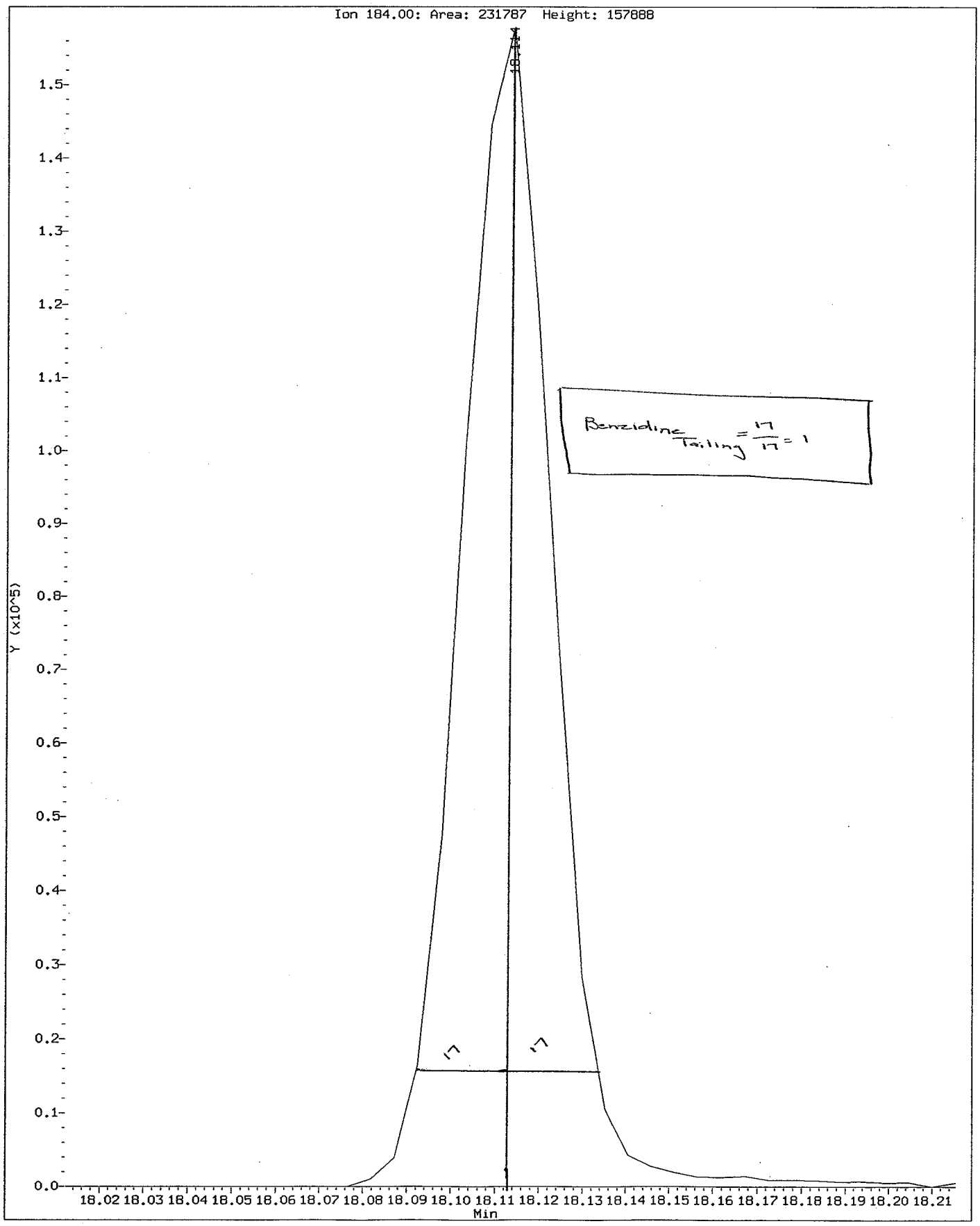
Data File: /chem3/nt4.i/20060815.b/ddt.b/0250815.d
Injection Date: 15-AUG-2006 08:55
Instrument: nt4.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20060815.b/ddt.b/0250815.d
Injection Date: 15-AUG-2006 08:55
Instrument: nt4.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060815.b/0400815.d
Lab Smp Id: ABN 40 Client Smp ID: ABN 40
Inj Date : 15-AUG-2006 10:34
Operator : VTS Inst ID: nt4.i
Smp Info : ABN 40
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060815.b/SW846.m
Meth Date : 16-Aug-2006 11:59 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJK 8/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.633	6.640	(0.772)	502800	40.0000	39.48
$	2 Phenol-d5	99	8.124	8.136	(0.945)	602451	40.0000	39.16
	3 Phenol	94	8.145	8.157	(0.948)	740202	40.0000	39.89
$	5 2-Chlorophenol-d4	132	8.289	8.296	(0.965)	485755	40.0000	39.19
	4 Bis(2-Chloroethyl)ether	93	8.252	8.264	(0.960)	503320	40.0000	38.66
	6 2-Chlorophenol	128	8.311	8.317	(0.967)	442468	40.0000	39.44
	7 1,3-Dichlorobenzene	146	8.535	8.536	(0.993)	460089	40.0000	38.60
*	8 1,4-Dichlorobenzene-d4	152	8.594	8.595	(1.000)	159653	20.0000	
	9 1,4-Dichlorobenzene	146	8.621	8.622	(1.003)	472744	40.0000	38.56
$	10 1,2-Dichlorobenzene-d4	152	8.893	8.899	(1.035)	288827	40.0000	38.61 (MH)
	12 1,2-Dichlorobenzene	146	8.914	8.921	(1.037)	437894	40.0000	38.64
	11 Benzyl alcohol	108	8.856	8.867	(1.030)	337573	40.0000	40.04
	14 2,2'-oxybis(1-Chloropropane)	45	9.117	9.119	(1.061)	414604	40.0000	39.79
	13 2-Methylphenol	108	9.069	9.076	(1.055)	433231	40.0000	39.72
	17 Hexachloroethane	117	9.400	9.402	(1.094)	203468	40.0000	39.47
	16 N-Nitroso-di-n-propylamine	70	9.336	9.354	(1.086)	432050	40.0000	39.57
	15 4-Methylphenol	108	9.299	9.311	(1.082)	455365	40.0000	40.65
$	18 Nitrobenzene-d5	82	9.518	9.525	(0.895)	668677	40.0000	38.74
	19 Nitrobenzene	77	9.545	9.557	(0.898)	654816	40.0000	38.33
	20 Isophorone	82	9.924	9.941	(0.933)	1060116	40.0000	39.77
	21 2-Nitrophenol	139	10.058	10.064	(0.946)	229594	40.0000	38.79
	22 2,4-Dimethylphenol	107	10.138	10.150	(0.953)	499136	40.0000	40.68
	23 Bis(2-Chloroethoxy)methane	93	10.298	10.304	(0.968)	593191	40.0000	39.97
	24 Benzoic acid	105	10.399	10.470	(0.978)	723128	80.0000	90.47 (M)
	25 2,4-Dichlorophenol	162	10.432	10.443	(0.981)	314348	40.0000	39.45
	26 1,2,4-Trichlorobenzene	180	10.576	10.577	(0.994)	348428	40.0000	38.69
*	27 Naphthalene-d8	136	10.635	10.636	(1.000)	598745	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.667	10.673	(1.003)	1234463	40.0000	38.50
	29 4-Chloroaniline	127	10.789	10.801	(1.015)	498550	40.0000	38.35
	30 Hexachlorobutadiene	225	10.976	10.978	(1.032)	197265	40.0000	38.17
	31 4-Chloro-3-methylphenol	107	11.580	11.587	(1.089)	410503	40.0000	38.98
	32 2-Methylnaphthalene	141	11.783	11.790	(1.108)	643395	40.0000	38.23
	33 Hexachlorocyclopentadiene	237	12.162	12.164	(0.901)	182376	40.0000	43.05
	34 2,4,6-Trichlorophenol	196	12.291	12.292	(0.910)	214272	40.0000	39.25
	35 2,4,5-Trichlorophenol	196	12.344	12.351	(0.914)	232349	40.0000	40.45
$	36 2-Fluorobiphenyl	172	12.424	12.431	(0.920)	824040	40.0000	38.30
	37 2-Chloronaphthalene	162	12.568	12.575	(0.931)	695539	40.0000	38.55
	38 2-Nitroaniline	65	12.787	12.799	(0.947)	306777	40.0000	39.13
	39 Dimethylphthalate	163	13.156	13.168	(0.974)	752680	40.0000	38.27
	40 Acenaphthylene	152	13.252	13.259	(0.981)	1122658	40.0000	38.70
	41 2,6-Dinitrotoluene	165	13.258	13.264	(0.982)	183855	40.0000	39.42
*	42 Acenaphthene-d10	164	13.503	13.510	(1.000)	315117	20.0000	
	43 3-Nitroaniline	138	13.466	13.483	(0.997)	197079	40.0000	38.89
	44 Acenaphthene	153	13.557	13.563	(1.004)	693954	40.0000	37.89
	45 2,4-Dinitrophenol	184	13.637	13.649	(1.010)	158578	80.0000	106.5
	46 Dibenzofuran	168	13.818	13.825	(1.023)	902684	40.0000	37.26
	47 4-Nitrophenol	109	13.754	13.772	(1.019)	138411	40.0000	41.66 (M)
	48 2,4-Dinitrotoluene	165	13.888	13.900	(1.028)	232402	40.0000	39.67
	50 Diethylphthalate	149	14.310	14.322	(1.060)	763661	40.0000	38.81
	49 Fluorene	166	14.379	14.386	(1.065)	783246	40.0000	38.83
	51 4-Chlorophenyl-phenylether	204	14.390	14.397	(1.066)	359080	40.0000	37.91
	52 4-Nitroaniline	138	14.470	14.498	(1.072)	179200	40.0000	39.15
	53 4,6-Dinitro-2-methylphenol	198	14.550	14.573	(0.915)	271438	80.0000	89.26
	54 N-Nitrosodiphenylamine	169	14.593	14.605	(0.918)	348565	40.0000	38.78
$	55 2,4,6-Tribromophenol	330	14.801	14.813	(1.096)	101711	40.0000	38.85
	56 4-Bromophenyl-phenylether	248	15.175	15.182	(0.955)	195780	40.0000	37.96
	57 Hexachlorobenzene	284	15.410	15.417	(0.969)	194767	40.0000	37.34
	58 Pentachlorophenol	266	15.699	15.711	(0.988)	134695	40.0000	41.12
*	59 Phenanthrene-d10	188	15.897	15.898	(1.000)	456057	20.0000	
	60 Phenanthrene	178	15.934	15.940	(1.002)	1015728	40.0000	38.11
	61 Anthracene	178	16.009	16.015	(1.007)	1016492	40.0000	38.51
	62 Carbazole	167	16.281	16.288	(1.024)	889321	40.0000	37.56
	63 Di-n-butylphthalate	149	16.970	16.977	(1.068)	1167866	40.0000	39.27
	64 Fluoranthene	202	17.884	17.896	(1.125)	1012060	40.0000	38.62
	65 Pyrene	202	18.247	18.254	(0.902)	1025933	40.0000	38.34
$	66 Terphenyl-d14	244	18.541	18.547	(0.916)	720697	40.0000	38.60
	67 Butylbenzylphthalate	149	19.412	19.418	(0.959)	491277	40.0000	39.67
	68 Benzo(a)anthracene	228	20.213	20.225	(0.999)	950932	40.0000	37.96
*	69 Chrysene-d12	240	20.240	20.246	(1.000)	353296	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.202	20.214	(0.998)	304949	40.0000	36.24
	71 Chrysene	228	20.282	20.294	(1.002)	881162	40.0000	37.46
	72 bis(2-Ethylhexyl)phthalate	149	20.395	20.401	(0.956)	668624	40.0000	40.01
*	134 Di-n-octylphthalate-d4	153	21.335	21.341	(1.000)	713441	20.0000	
	73 Di-n-octylphthalate	149	21.340	21.347	(1.000)	1189840	40.0000	38.11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.880	21.897	(0.976)	975732	40.0000	39.83
75	Benzo(k)fluoranthene	252	21.917	21.934	(0.978)	919090	40.0000	36.11
76	Benzo(a)pyrene	252	22.339	22.351	(0.997)	870575	40.0000	38.79
* 77	Perylene-d12	264	22.414	22.420	(1.000)	409650	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.193	24.221	(1.079)	1165043	40.0000	39.29 (M)
79	Dibenzo(a,h)anthracene	278	24.214	24.242	(1.080)	941987	40.0000	38.85 (M)
80	Benzo(g,h,i)perylene	276	24.700	24.728	(1.102)	1028729	40.0000	39.42 (M)
90	N-Nitrosodimethylamine	74	4.181	4.193	(0.487)	356748	40.0000	40.06 (M)
103	Pyridine	79	4.155	4.150	(0.483)	601556	40.0000	38.57 (M)
91	Aniline	93	8.145	8.152	(0.948)	832252	40.0000	38.61
105	1-methylnaphthalene	141	11.959	11.966	(1.125)	656486	40.0000	38.32
93	Benzidine	184	18.113	18.120	(0.895)	335253	40.0000	32.61
98	Retene	219	18.797	18.804	(0.929)	473559	40.0000	39.14
111	Azobenzene (1,2-DP-Hydrazine)	77	14.646	14.653	(1.085)	1165443	40.0000	38.65
144	alpha-Terpineol	59	10.677	10.684	(1.004)	304402	40.0000	39.94
143	1,4-Dioxane	88	3.407	3.402	(0.396)	202260	40.0000	39.55
$ 137	d8-1,4-Dioxane	96	3.342	3.338	(0.389)	197156	40.0000	39.36
133	Butylatedhydroxytoluene	205	13.653	13.659	(1.011)	606195	40.0000	37.71
115	Tributyl Phosphate	99	14.668	14.685	(0.923)	1046809	40.0000	39.24
116	Dibutyl Phenyl Phosphate	175	16.415	16.421	(1.033)	716314	40.0000	39.33
117	Butyl Diphenyl Phosphate	94	18.113	18.120	(0.895)	278763	40.0000	40.99
118	Triphenyl Phosphate	326	19.732	19.739	(0.975)	155806	40.0000	38.16

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 0400815.d
Lab Smp Id: ABN 40
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

Calibration Date: 15-AUG-2006
Calibration Time: 08:55
Client Smp ID: ABN 40
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144618	72309	289236	159653	10.40
27 Naphthalene-d8	543038	271519	1086076	598745	10.26
42 Acenaphthene-d10	285517	142758	571034	315117	10.37
59 Phenanthrene-d10	409554	204777	819108	456057	11.35
69 Chrysene-d12	311119	155560	622238	353296	13.56
134 Di-n-octylphthala	651942	325971	1303884	713441	9.43
77 Perylene-d12	362847	181424	725694	409650	12.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.59	8.09	9.09	8.59	0.06
27 Naphthalene-d8	10.63	10.13	11.13	10.63	0.05
42 Acenaphthene-d10	13.50	13.00	14.00	13.50	0.00
59 Phenanthrene-d10	15.89	15.39	16.39	15.90	0.03
69 Chrysene-d12	20.23	19.73	20.73	20.24	0.02
134 Di-n-octylphthala	21.33	20.83	21.83	21.33	0.02
77 Perylene-d12	22.41	21.91	22.91	22.41	0.00

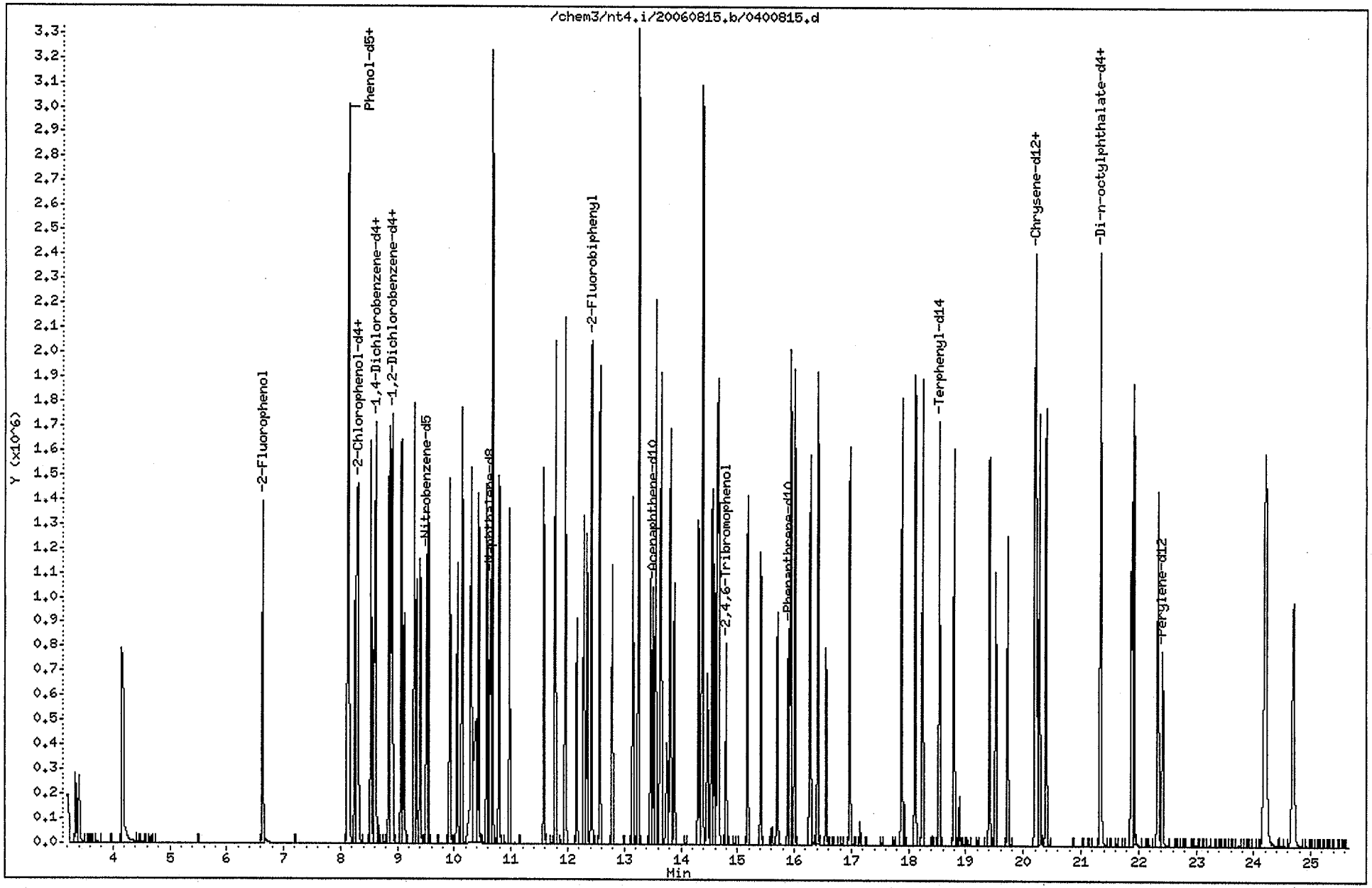
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060815.b/0400815.d
Date : 15-AUG-2006 10:34
Client ID: ABN 40
Sample Info: ABN 40

Instrument: nt4.i

Operator: VTS
Column diameter: 0.32

Column phase: ZB-5



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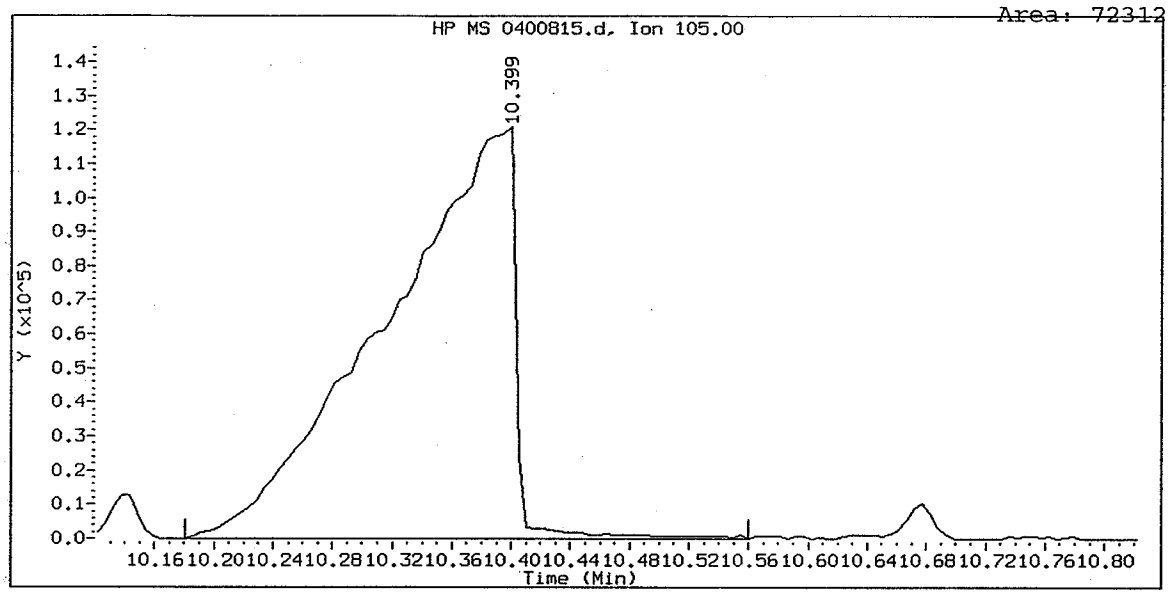
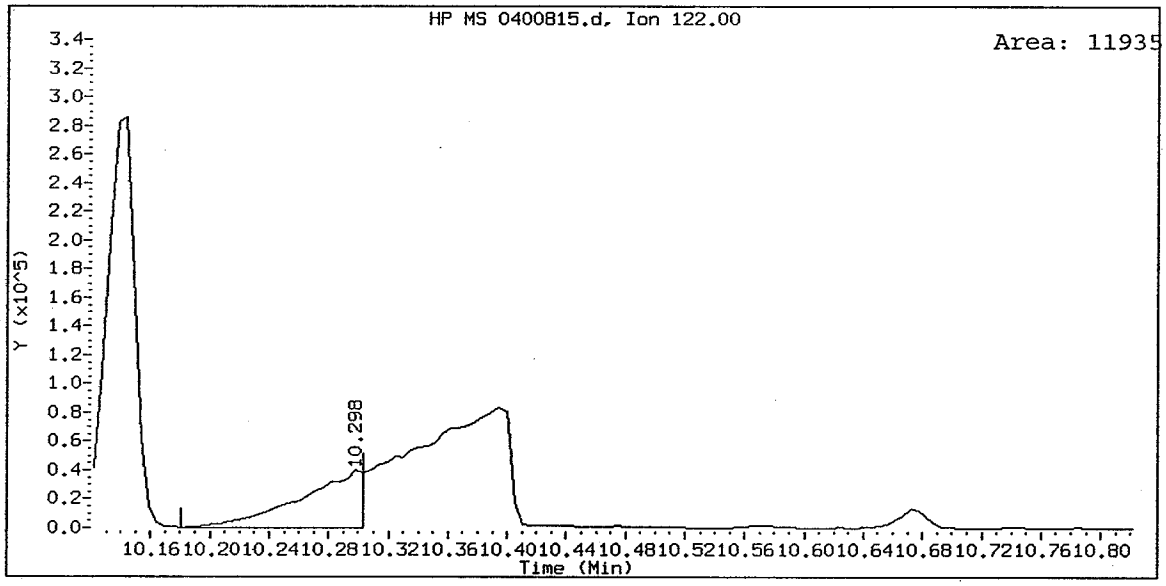
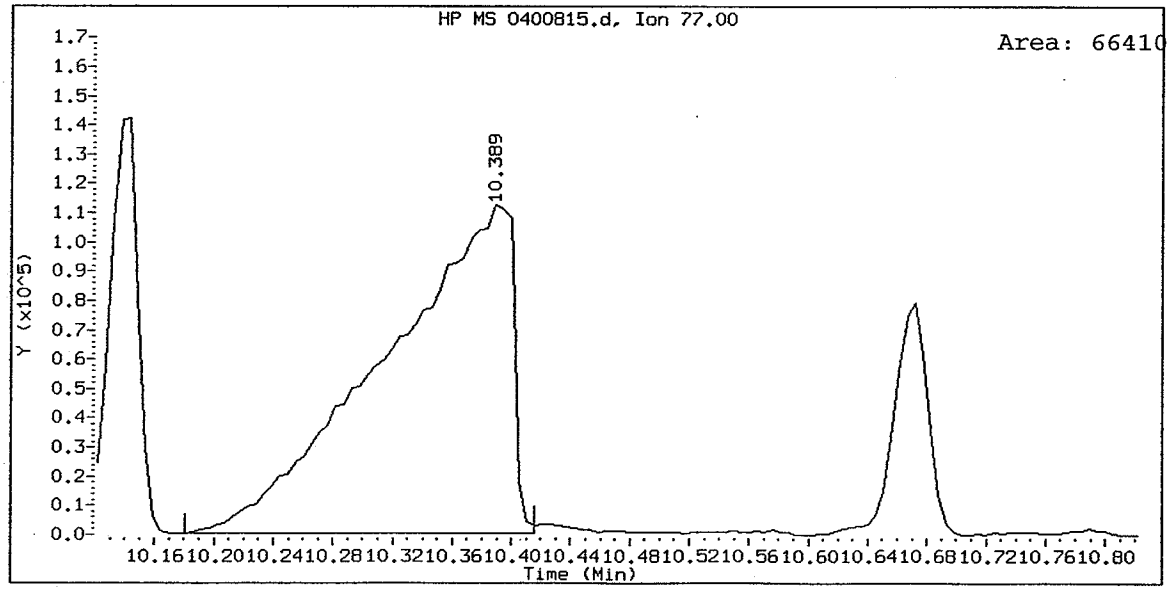
Benzoic acid Amount: 90.47







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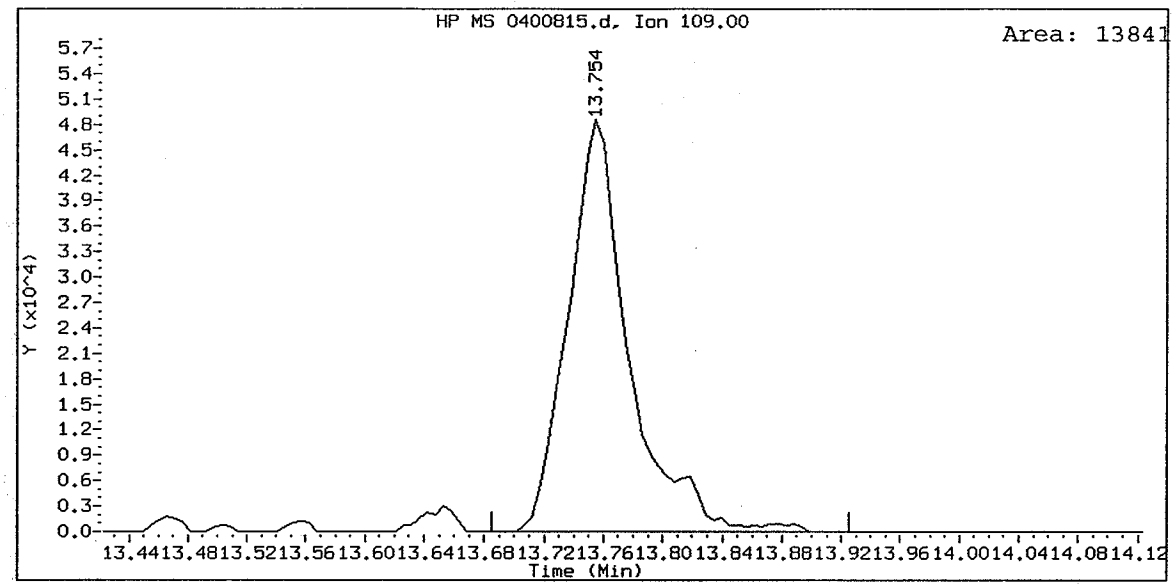
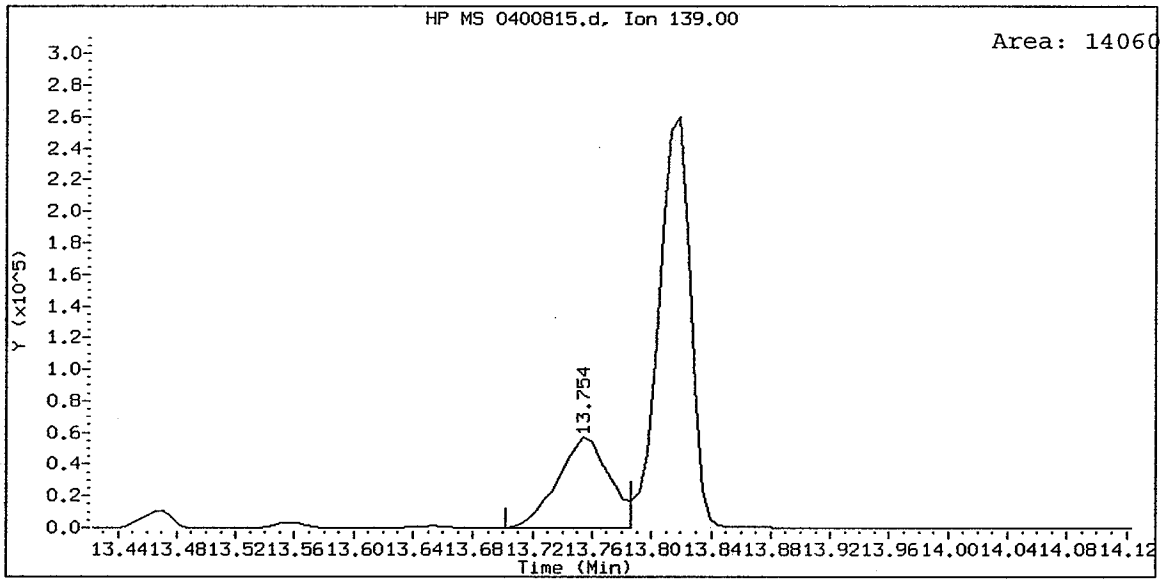
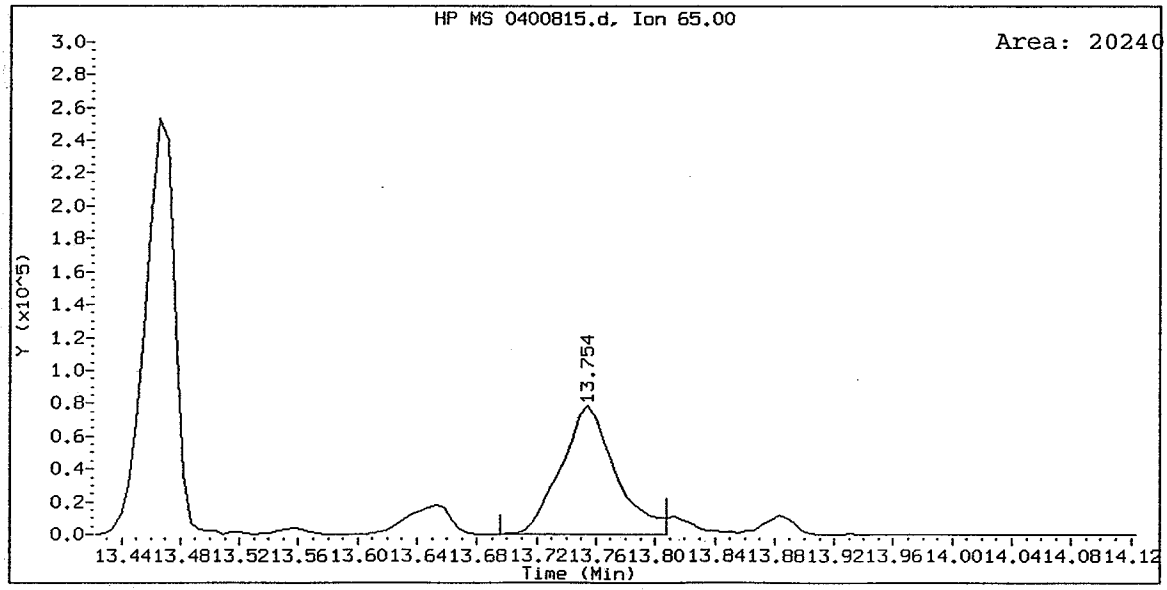
4-Nitrophenol Amount: 41.66







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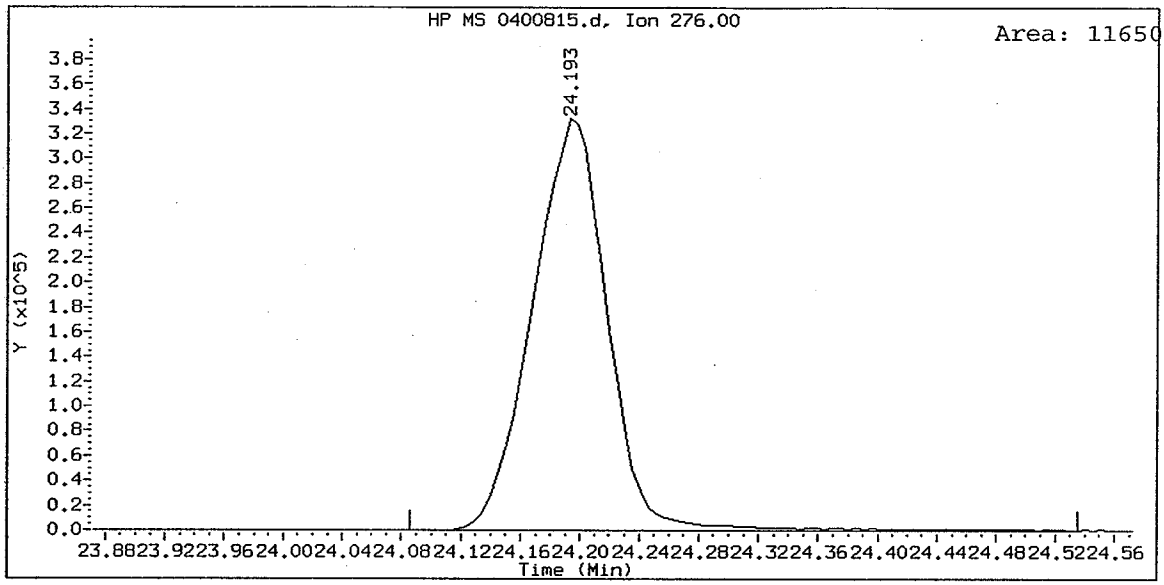
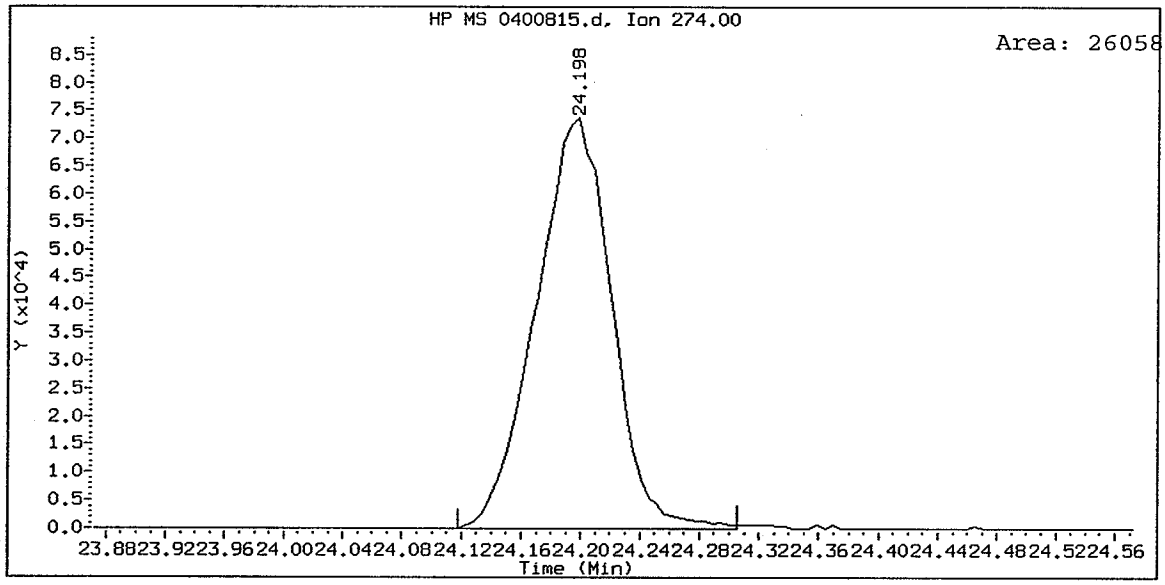
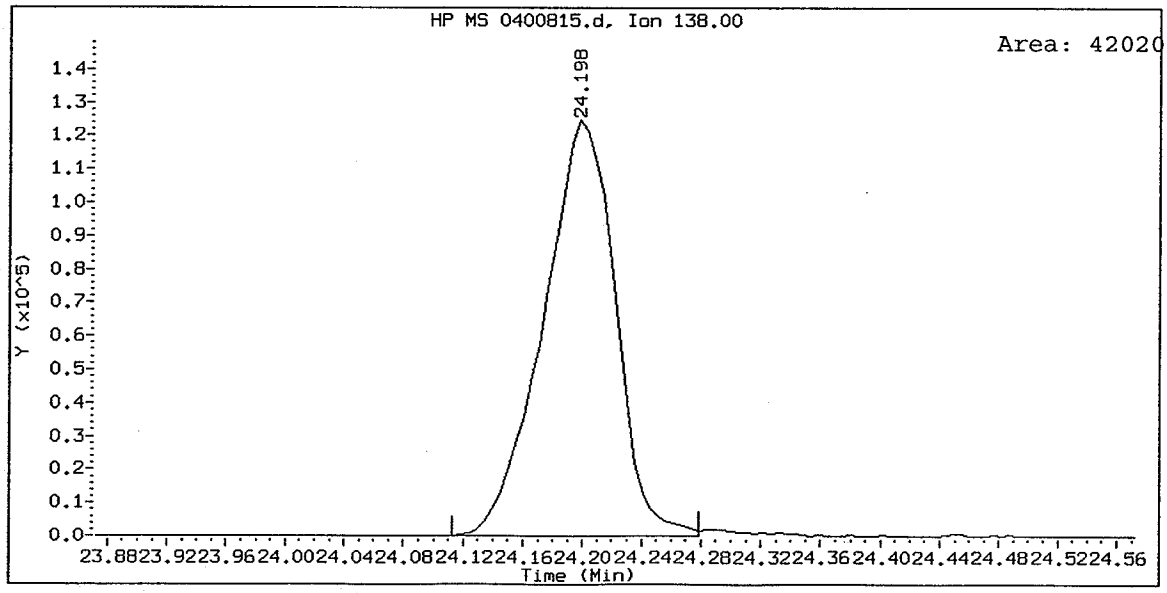
Indeno(1,2,3-cd)pyrene Amount: 39.29







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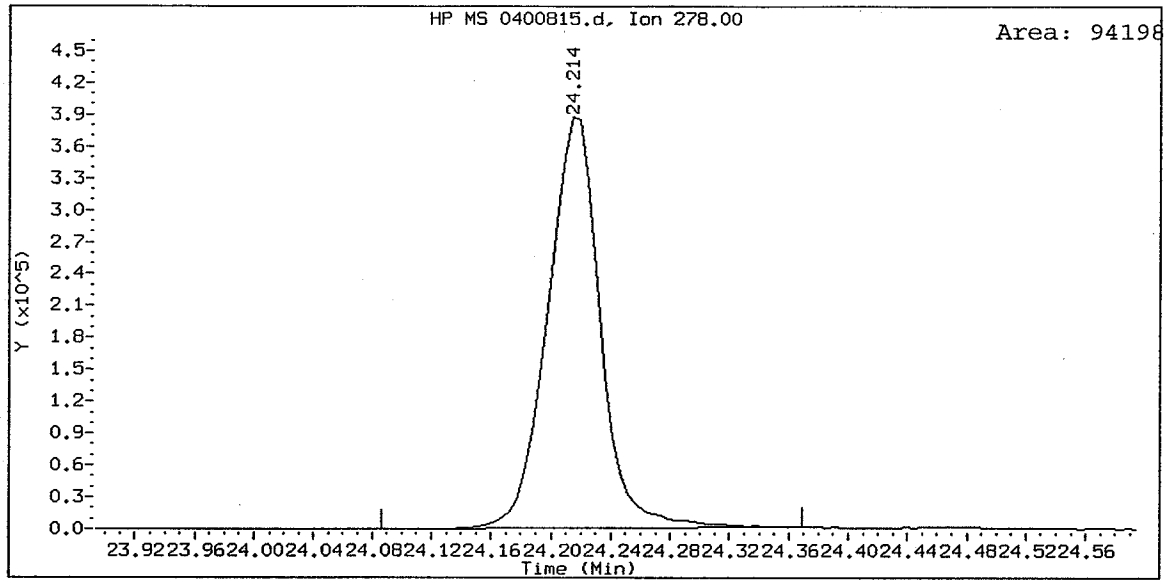
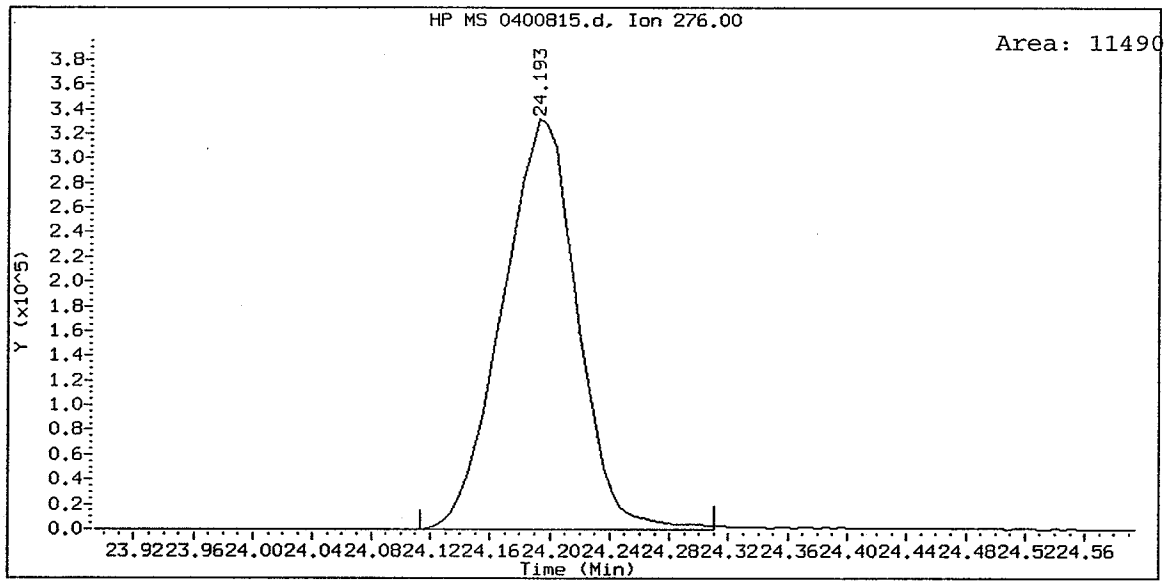
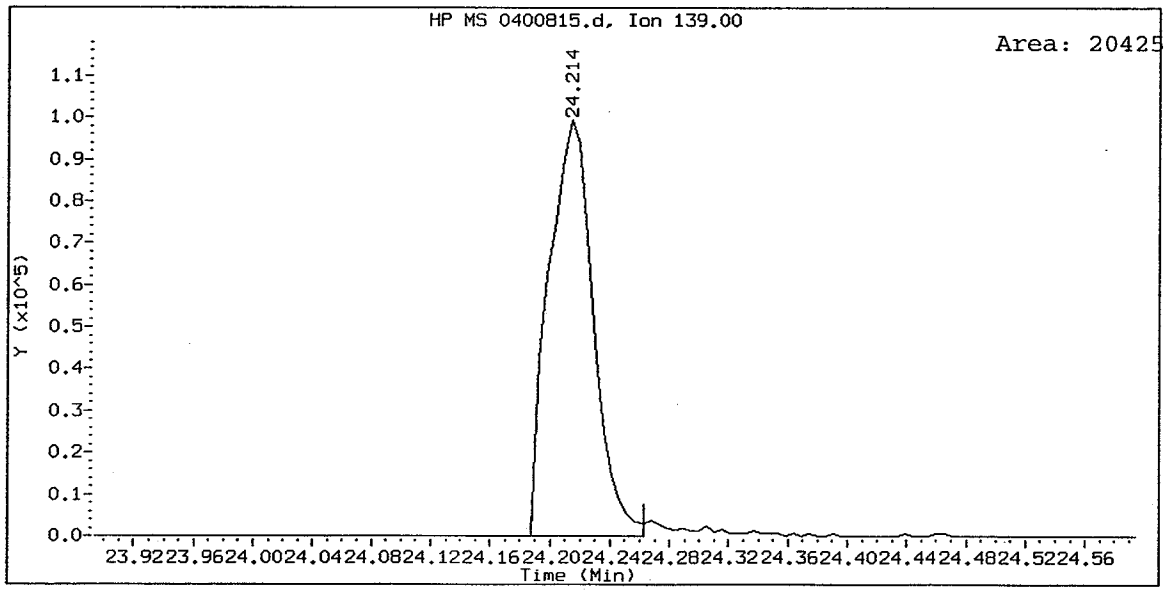
Dibenzo(a,h)anthracene Amount: 38.85







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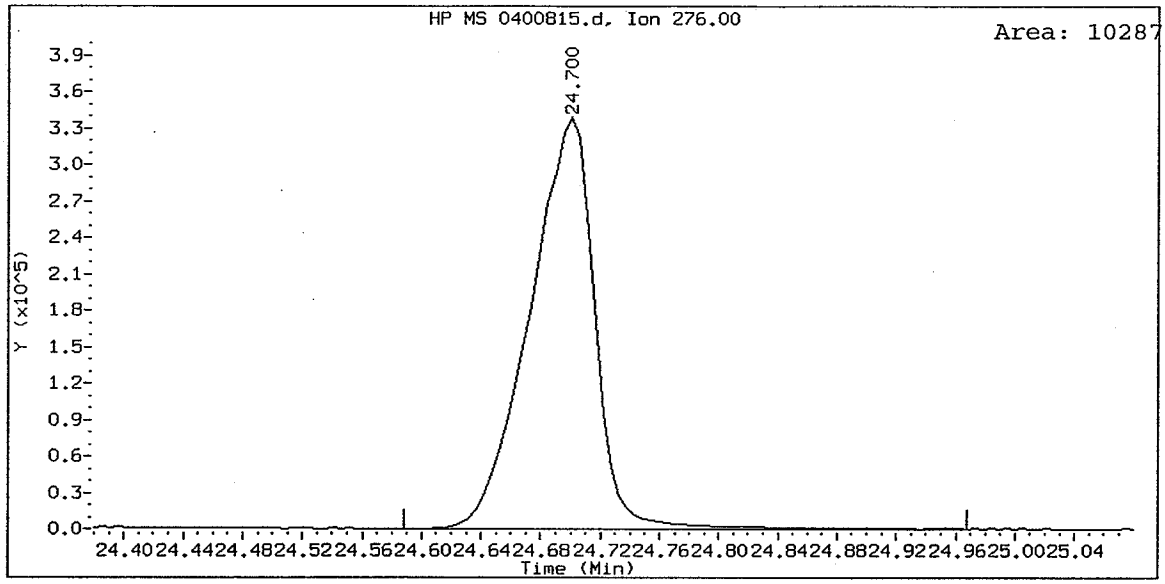
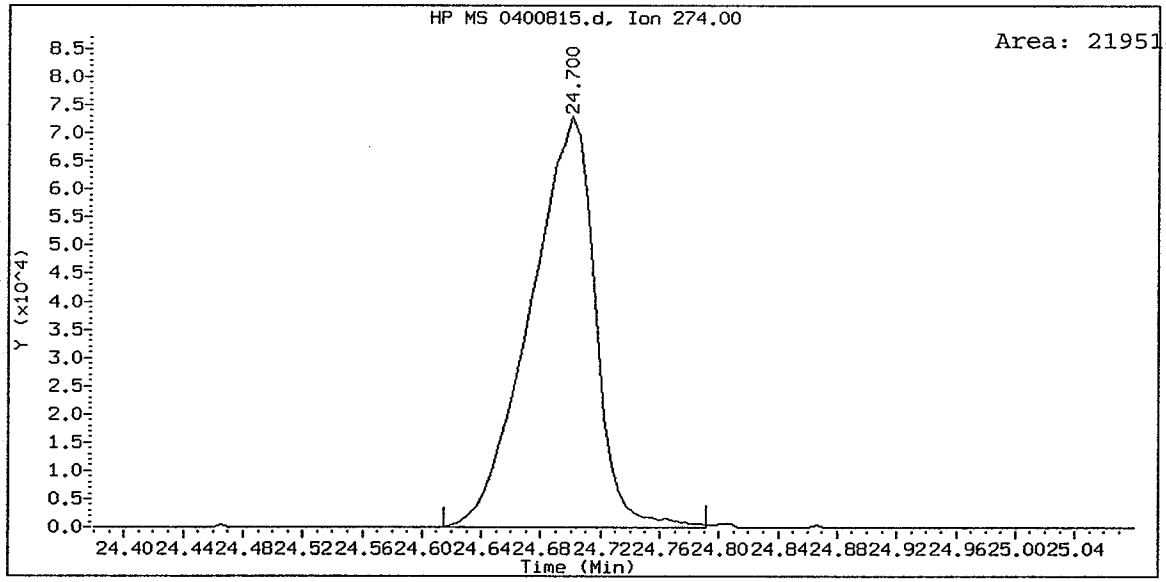
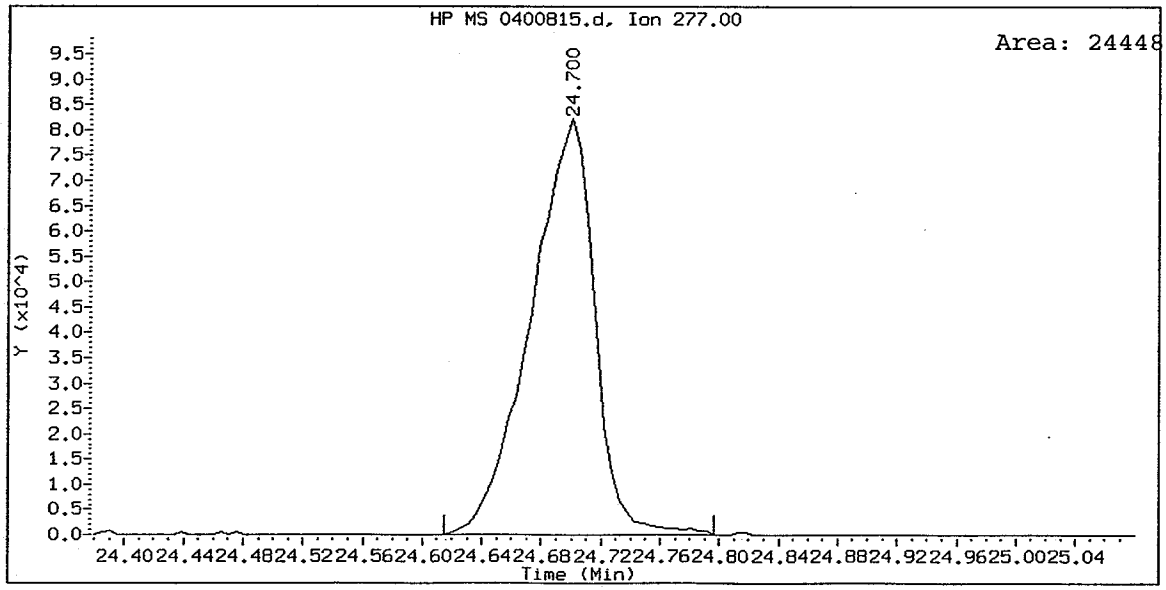
Benzo(g,h,i)perylene Amount: 39.42







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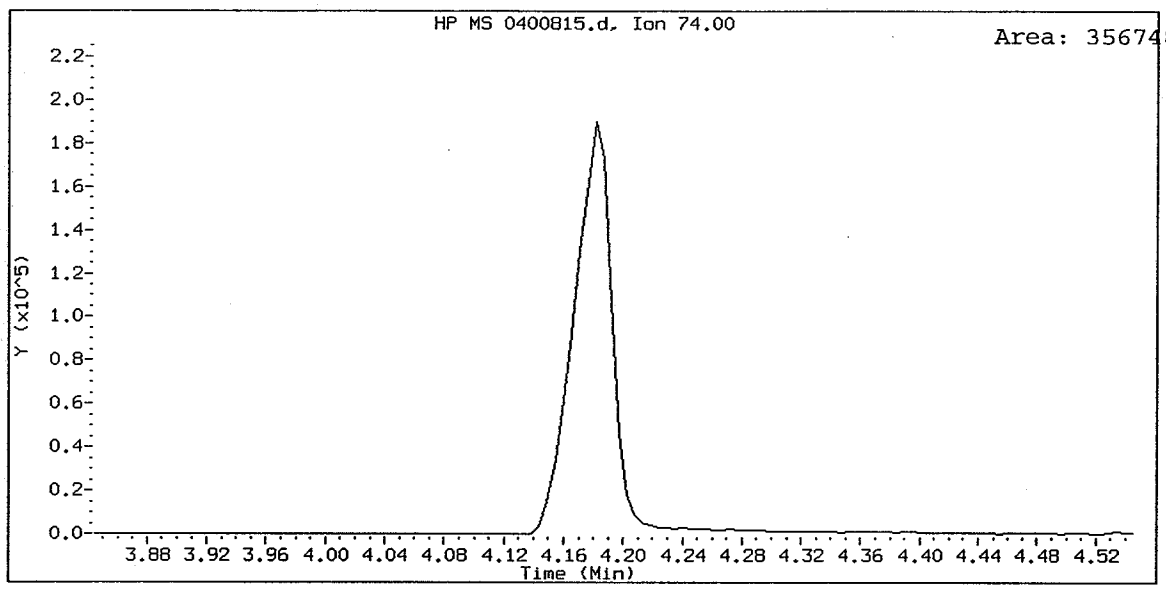
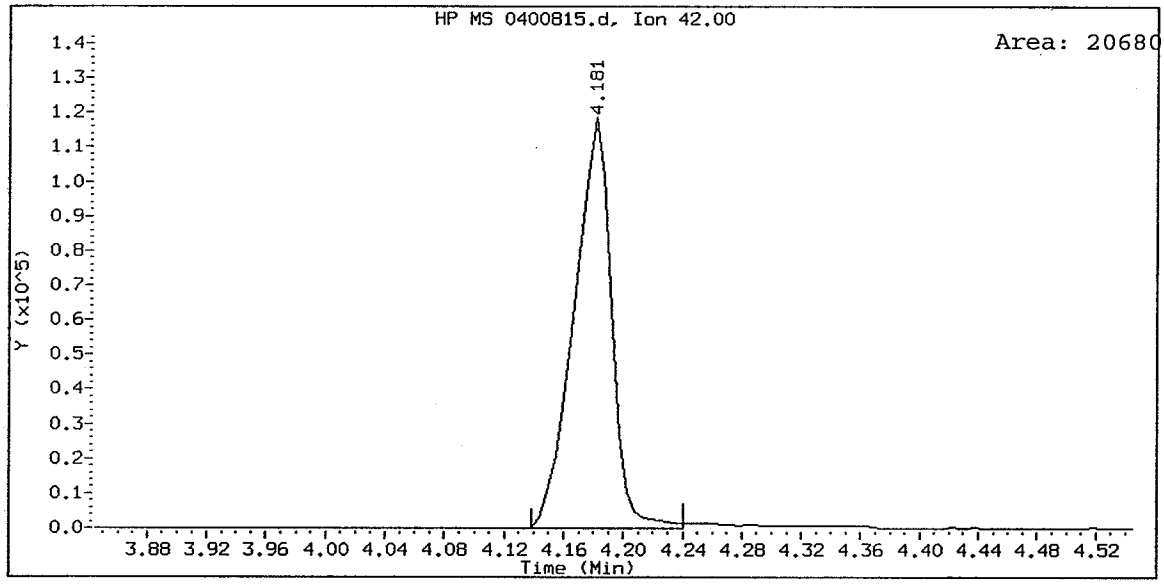
N-Nitrosodimethylamine Amount: 40.06





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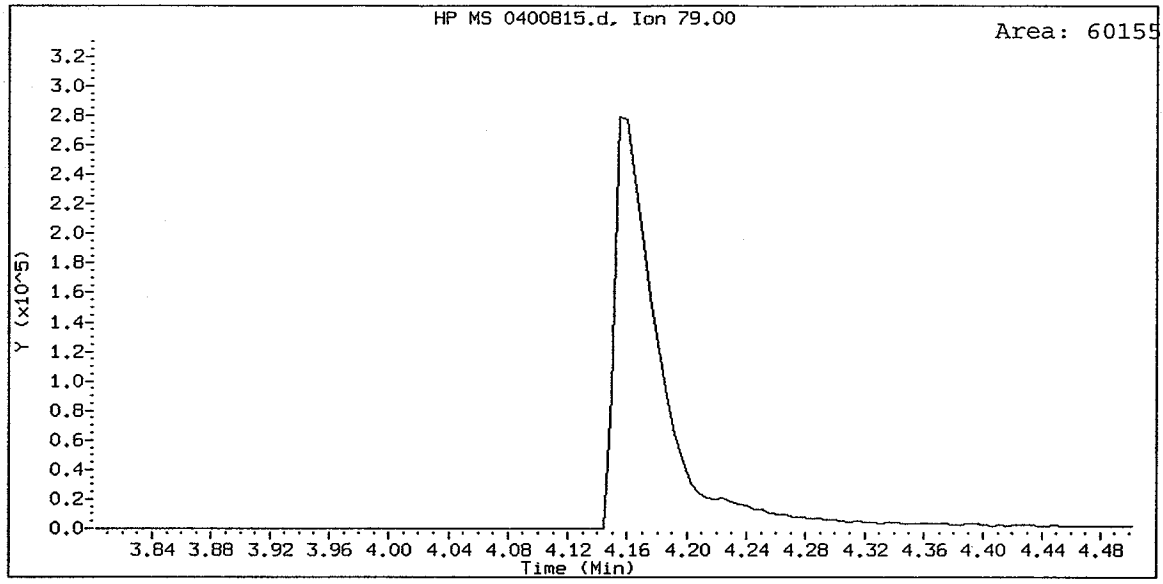
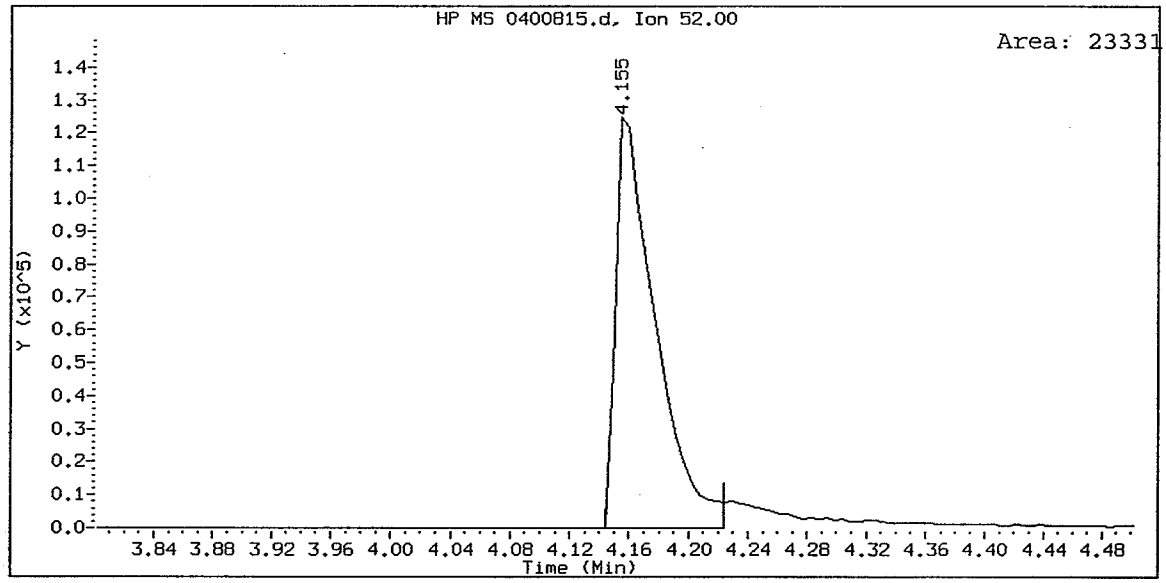
Pyridine Amount: 38.57





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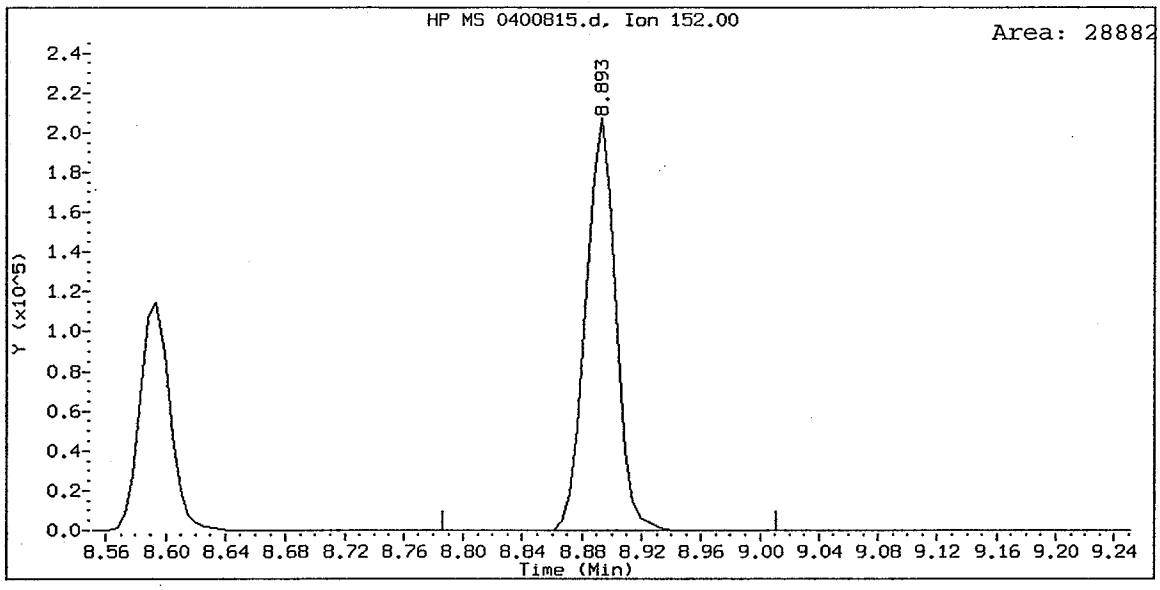
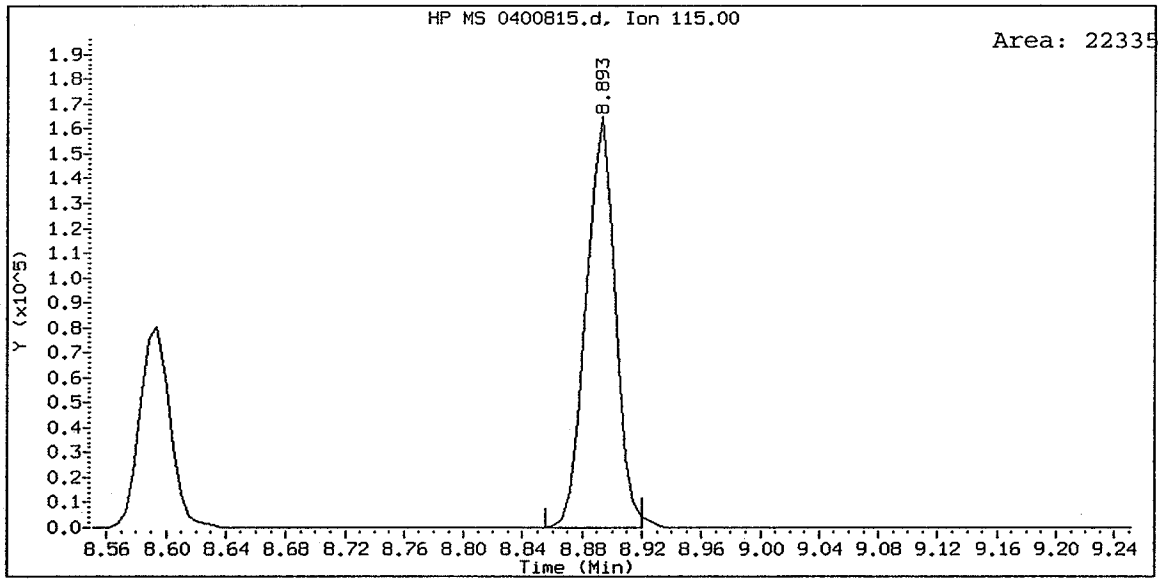
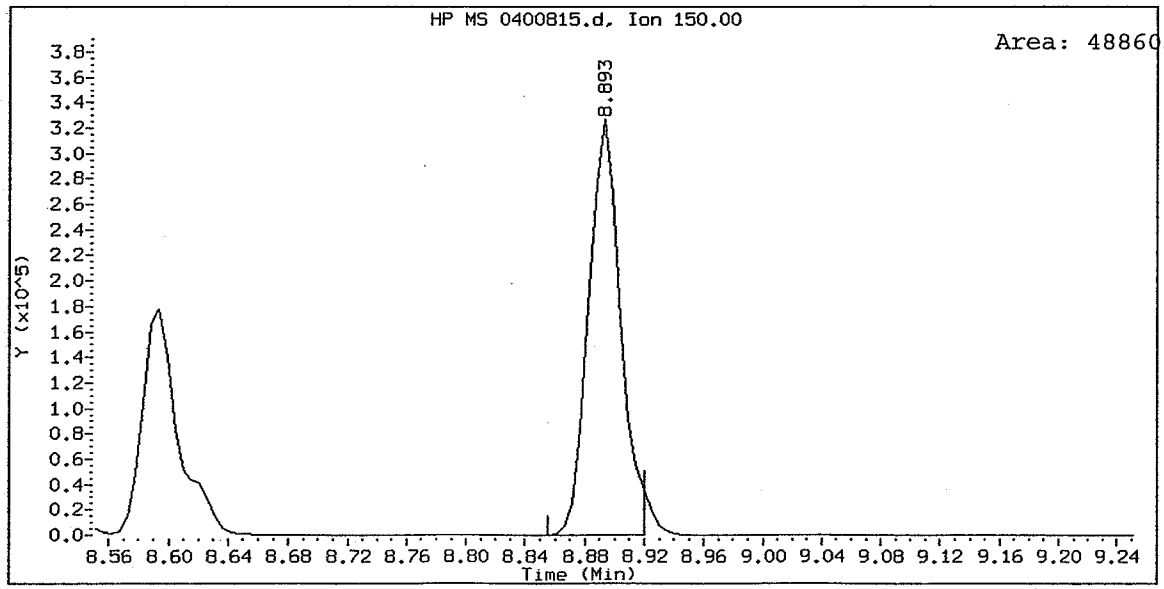
1,2-Dichlorobenzene-d4 Amount: 38.61







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060815.b/0800815.d
Lab Smp Id: ABN 80 Client Smp ID: ABN 80
Inj Date : 15-AUG-2006 09:28
Operator : VTS Inst ID: nt4.i
Smp Info : ABN 80
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060815.b/SW846.m
Meth Date : 16-Aug-2006 11:59 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJK 8/16/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.640	6.640	(0.772)	969077	80.0000	81.30
$	2 Phenol-d5	99	8.136	8.136	(0.947)	1213741	80.0000	84.29
	3 Phenol	94	8.157	8.157	(0.949)	1499040	80.0000	86.30
$	5 2-Chlorophenol-d4	132	8.296	8.296	(0.965)	927981	80.0000	80.00
	4 Bis(2-Chloroethyl)ether	93	8.264	8.264	(0.961)	972379	80.0000	79.79
	6 2-Chlorophenol	128	8.317	8.317	(0.968)	860604	80.0000	81.96
	7 1,3-Dichlorobenzene	146	8.536	8.536	(0.993)	890929	80.0000	79.85
*	8 1,4-Dichlorobenzene-d4	152	8.595	8.595	(1.000)	149432	20.0000	
	9 1,4-Dichlorobenzene	146	8.622	8.622	(1.003)	920745	80.0000	80.24
$	10 1,2-Dichlorobenzene-d4	152	8.899	8.899	(1.035)	563040	80.0000	80.42 (MH)
	12 1,2-Dichlorobenzene	146	8.921	8.921	(1.038)	859529	80.0000	81.04
	11 Benzyl alcohol	108	8.867	8.867	(1.032)	665796	80.0000	84.37
	14 2,2'-oxybis(1-Chloropropane)	45	9.119	9.119	(1.061)	824763	80.0000	84.56
	13 2-Methylphenol	108	9.076	9.076	(1.056)	853834	80.0000	83.63
	17 Hexachloroethane	117	9.402	9.402	(1.094)	396674	80.0000	82.22
	16 N-Nitroso-di-n-propylamine	70	9.354	9.354	(1.088)	840813	80.0000	82.28
	15 4-Methylphenol	108	9.311	9.311	(1.083)	900895	80.0000	85.93
$	18 Nitrobenzene-d5	82	9.525	9.525	(0.896)	1273886	80.0000	78.68
	19 Nitrobenzene	77	9.557	9.557	(0.899)	1256122	80.0000	78.38
	20 Isophorone	82	9.941	9.941	(0.935)	2033259	80.0000	81.32
	21 2-Nitrophenol	139	10.064	10.064	(0.946)	450226	80.0000	81.10
	22 2,4-Dimethylphenol	107	10.150	10.150	(0.954)	959085	80.0000	83.33
	23 Bis(2-Chloroethoxy)methane	93	10.304	10.304	(0.969)	1143632	80.0000	82.16
	24 Benzoic acid	105	10.470	10.470	(0.984)	1434104	160.000	191.3 (M)
	25 2,4-Dichlorophenol	162	10.443	10.443	(0.982)	623636	80.0000	83.44
	26 1,2,4-Trichlorobenzene	180	10.577	10.577	(0.994)	672467	80.0000	79.60
*	27 Naphthalene-d8	136	10.636	10.636	(1.000)	561620	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.673	10.673	(1.004)	2461172	80.0000	81.83
	29 4-Chloroaniline	127	10.801	10.801	(1.016)	1002684	80.0000	82.23
	30 Hexachlorobutadiene	225	10.978	10.978	(1.032)	381510	80.0000	78.70
	31 4-Chloro-3-methylphenol	107	11.587	11.587	(1.089)	808971	80.0000	81.89
	32 2-Methylnaphthalene	141	11.790	11.790	(1.108)	1277347	80.0000	80.92
	33 Hexachlorocyclopentadiene	237	12.164	12.164	(0.900)	378342	80.0000	94.31
	34 2,4,6-Trichlorophenol	196	12.292	12.292	(0.910)	433279	80.0000	83.82
	35 2,4,5-Trichlorophenol	196	12.351	12.351	(0.914)	443699	80.0000	81.57
$	36 2-Fluorobiphenyl	172	12.431	12.431	(0.920)	1594530	80.0000	78.27
	37 2-Chloronaphthalene	162	12.575	12.575	(0.931)	1351404	80.0000	79.10
	38 2-Nitroaniline	65	12.799	12.799	(0.947)	606771	80.0000	81.74
	39 Dimethylphthalate	163	13.168	13.168	(0.975)	1461155	80.0000	78.45
	40 Acenaphthylene	152	13.259	13.259	(0.981)	2216360	80.0000	80.70
	41 2,6-Dinitrotoluene	165	13.264	13.264	(0.982)	377306	80.0000	85.44
*	42 Acenaphthene-d10	164	13.510	13.510	(1.000)	298381	20.0000	
	43 3-Nitroaniline	138	13.483	13.483	(0.998)	399675	80.0000	83.28
	44 Acenaphthene	153	13.563	13.563	(1.004)	1377392	80.0000	79.42
	45 2,4-Dinitrophenol	184	13.649	13.649	(1.010)	381925	160.000	270.8
	46 Dibenzofuran	168	13.825	13.825	(1.023)	1791338	80.0000	78.08
	47 4-Nitrophenol	109	13.772	13.772	(1.019)	271723	80.0000	86.38 (M)
	48 2,4-Dinitrotoluene	165	13.900	13.900	(1.029)	457460	80.0000	82.47
	50 Diethylphthalate	149	14.322	14.322	(1.060)	1480413	80.0000	79.45
	49 Fluorene	166	14.386	14.386	(1.065)	1616242	80.0000	84.63
	51 4-Chlorophenyl-phenylether	204	14.397	14.397	(1.066)	756956	80.0000	84.41
	52 4-Nitroaniline	138	14.498	14.498	(1.073)	365394	80.0000	84.30
	53 4,6-Dinitro-2-methylphenol	198	14.573	14.573	(0.917)	561449	160.000	192.0
	54 N-Nitrosodiphenylamine	169	14.605	14.605	(0.919)	696058	80.0000	80.54
$	55 2,4,6-Tribromophenol	330	14.813	14.813	(1.096)	194869	80.0000	78.61
	56 4-Bromophenyl-phenylether	248	15.182	15.182	(0.955)	389246	80.0000	78.49
	57 Hexachlorobenzene	284	15.417	15.417	(0.970)	376627	80.0000	75.09
	58 Pentachlorophenol	266	15.711	15.711	(0.988)	270192	80.0000	85.78
*	59 Phenanthrene-d10	188	15.898	15.898	(1.000)	438547	20.0000	
	60 Phenanthrene	178	15.940	15.940	(1.003)	2015096	80.0000	78.63
	61 Anthracene	178	16.015	16.015	(1.007)	2005604	80.0000	79.02
	62 Carbazole	167	16.288	16.288	(1.025)	1816752	80.0000	79.79
	63 Di-n-butylphthalate	149	16.977	16.977	(1.068)	2283038	80.0000	79.84
	64 Fluoranthene	202	17.896	17.896	(1.126)	2002246	80.0000	79.46
	65 Pyrene	202	18.254	18.254	(0.902)	2037256	80.0000	78.93
$	66 Terphenyl-d14	244	18.547	18.547	(0.916)	1440948	80.0000	80.00
	67 Butylbenzylphthalate	149	19.418	19.418	(0.959)	993643	80.0000	83.19
	68 Benzo(a)anthracene	228	20.225	20.225	(0.999)	2042540	80.0000	84.53
*	69 Chrysene-d12	240	20.246	20.246	(1.000)	340770	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.214	20.214	(0.998)	679646	80.0000	83.74
	71 Chrysene	228	20.294	20.294	(1.002)	1793067	80.0000	79.03
	72 bis(2-Ethylhexyl)phthalate	149	20.401	20.401	(0.956)	1359692	80.0000	81.92
*	134 Di-n-octylphthalate-d4	153	21.341	21.341	(1.000)	708557	20.0000	
	73 Di-n-octylphthalate	149	21.347	21.347	(1.000)	2400326	80.0000	77.41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.897	21.897	(0.977)	2004662	80.0000	86.70
75	Benzo(k)fluoranthene	252	21.934	21.934	(0.978)	1810249	80.0000	75.36
76	Benzo(a)pyrene	252	22.351	22.351	(0.997)	1728873	80.0000	81.62
* 77	Perylene-d12	264	22.420	22.420	(1.000)	386602	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.221	24.221	(1.080)	2306890	80.0000	82.43
79	Dibenzo(a,h)anthracene	278	24.242	24.242	(1.081)	1946279	80.0000	85.06
80	Benzo(g,h,i)perylene	276	24.728	24.728	(1.103)	1952537	80.0000	79.28
90	N-Nitrosodimethylamine	74	4.193	4.193	(0.488)	685531	80.0000	82.24 (M)
103	Pyridine	79	4.150	4.150	(0.483)	1191660	80.0000	81.64 (M)
91	Aniline	93	8.152	8.152	(0.948)	1675486	80.0000	83.04
105	1-methylnaphthalene	141	11.966	11.966	(1.125)	1297252	80.0000	80.73
93	Benzidine	184	18.120	18.120	(0.895)	772827	80.0000	77.94
98	Retene	219	18.804	18.804	(0.929)	967643	80.0000	82.92
111	Azobenzene (1,2-DP-Hydrazine)	77	14.653	14.653	(1.085)	2206314	80.0000	77.27
144	alpha-Terpineol	59	10.684	10.684	(1.005)	580112	80.0000	81.15
143	1,4-Dioxane	88	3.402	3.402	(0.396)	388967	80.0000	81.27
$ 137	d8-1,4-Dioxane	96	3.338	3.338	(0.388)	374758	80.0000	79.94
133	Butylatedhydroxytoluene	205	13.659	13.659	(1.011)	1239154	80.0000	81.40
115	Tributyl Phosphate	99	14.685	14.685	(0.924)	2086265	80.0000	81.32
116	Dibutyl Phenyl Phosphate	175	16.421	16.421	(1.033)	1450795	80.0000	82.84
117	Butyl Diphenyl Phosphate	94	18.120	18.120	(0.895)	569523	80.0000	86.81
118	Triphenyl Phosphate	326	19.739	19.739	(0.975)	307825	80.0000	78.17

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 0800815.d
Lab Smp Id: ABN 80
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

Calibration Date: 15-AUG-2006
Calibration Time: 08:55
Client Smp ID: ABN 80
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144618	72309	289236	149432	3.33
27 Naphthalene-d8	543038	271519	1086076	561620	3.42
42 Acenaphthene-d10	285517	142758	571034	298381	4.51
59 Phenanthrene-d10	409554	204777	819108	438547	7.08
69 Chrysene-d12	311119	155560	622238	340770	9.53
134 Di-n-octylphthala	651942	325971	1303884	708557	8.68
77 Perylene-d12	362847	181424	725694	386602	6.55

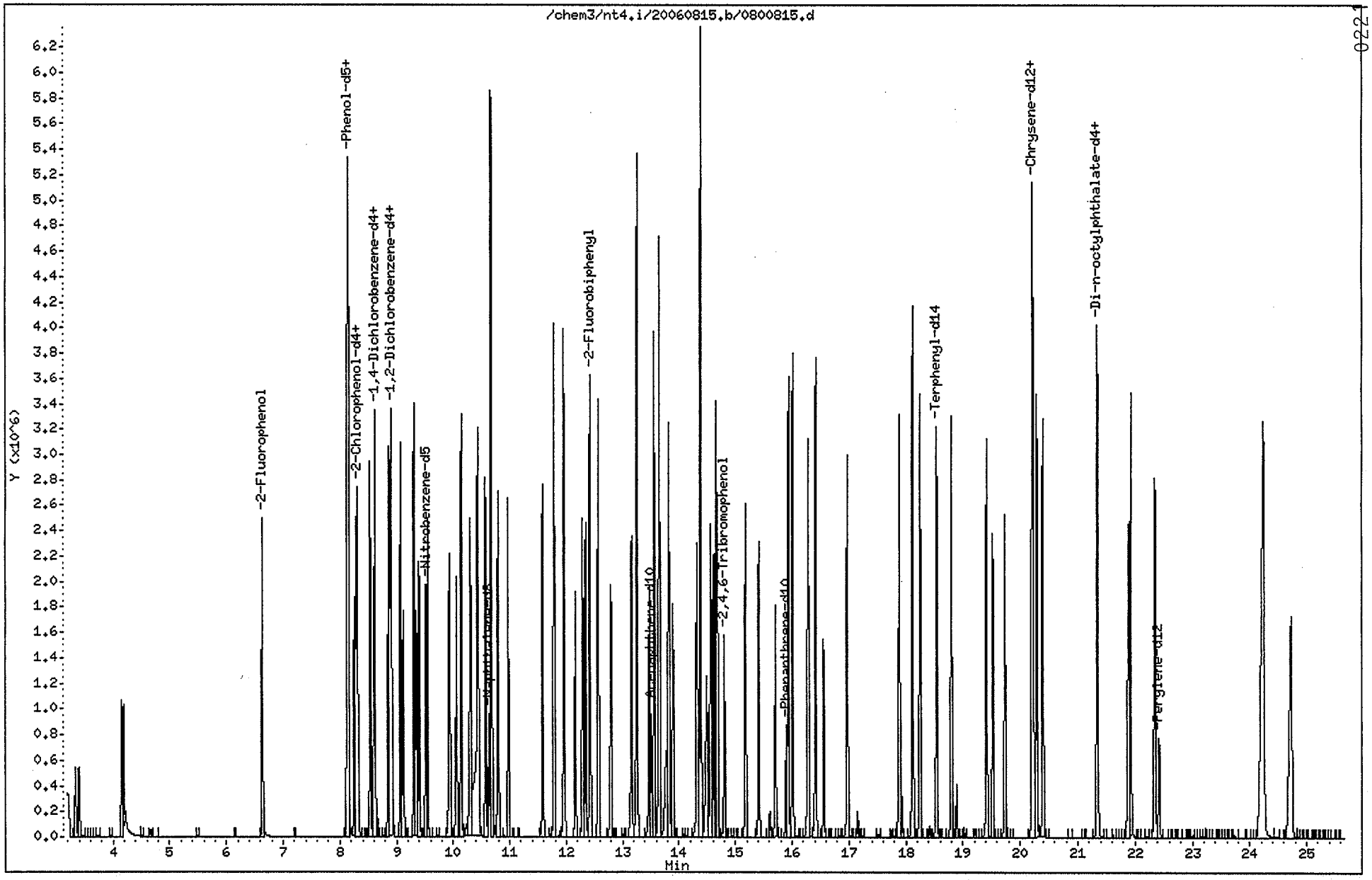
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.59	8.09	9.09	8.60	0.07
27 Naphthalene-d8	10.63	10.13	11.13	10.64	0.06
42 Acenaphthene-d10	13.50	13.00	14.00	13.51	0.05
59 Phenanthrene-d10	15.89	15.39	16.39	15.90	0.04
69 Chrysene-d12	20.23	19.73	20.73	20.25	0.06
134 Di-n-octylphthala	21.33	20.83	21.83	21.34	0.05
77 Perylene-d12	22.41	21.91	22.91	22.42	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060815.b/0800815.d
Date : 15-AUG-2006 09:28
Client ID: ABN 80
Sample Info: ABN 80

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32

Column phase: ZB-5



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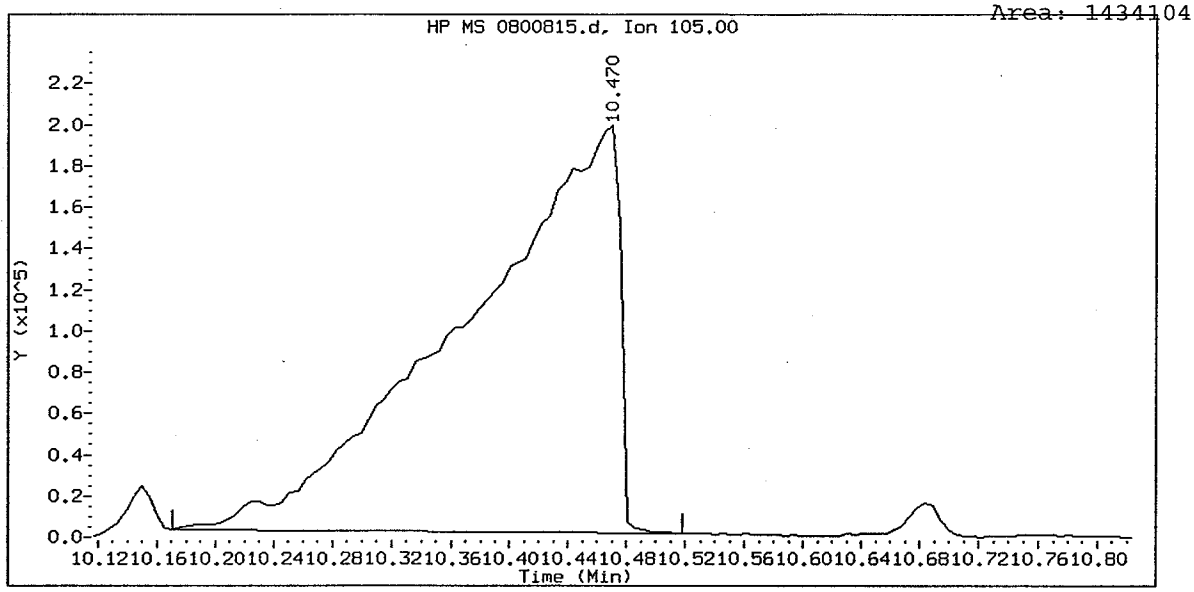
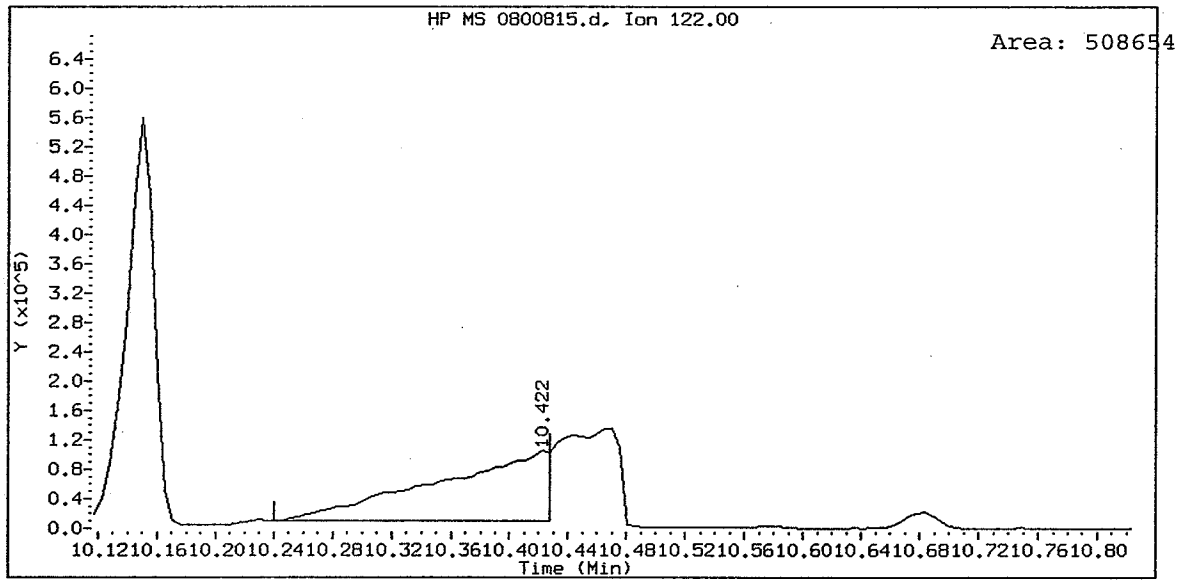
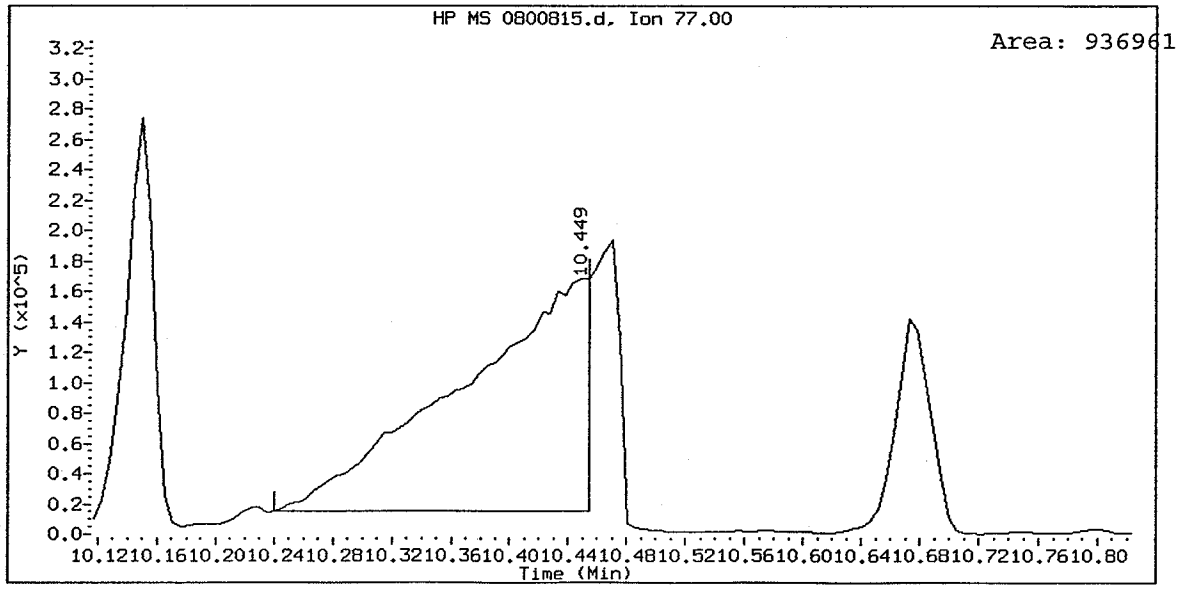
Benzoic acid Amount: 191.28







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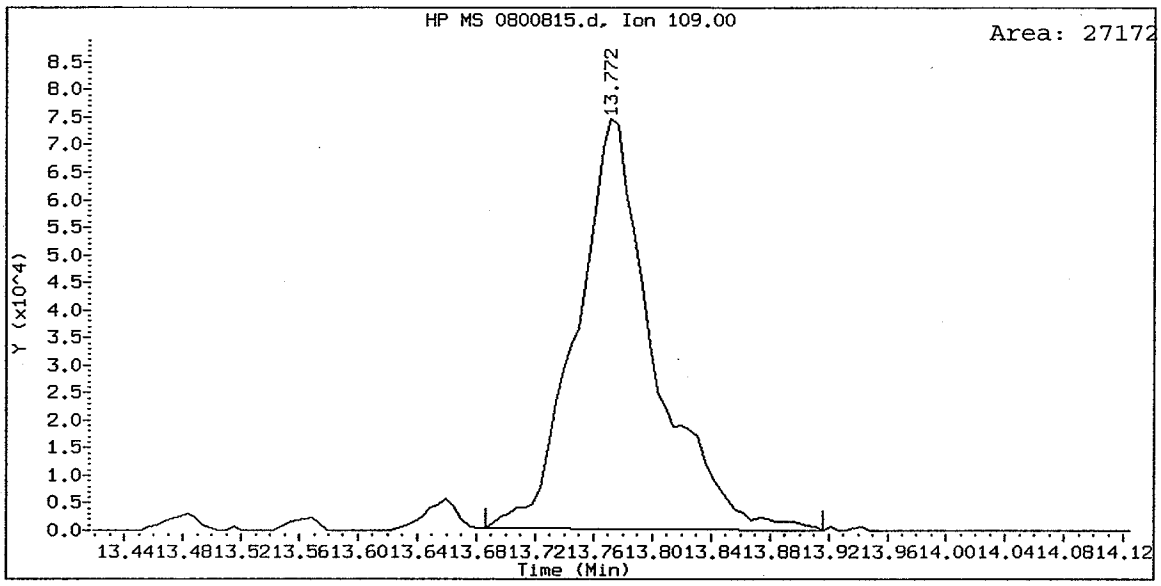
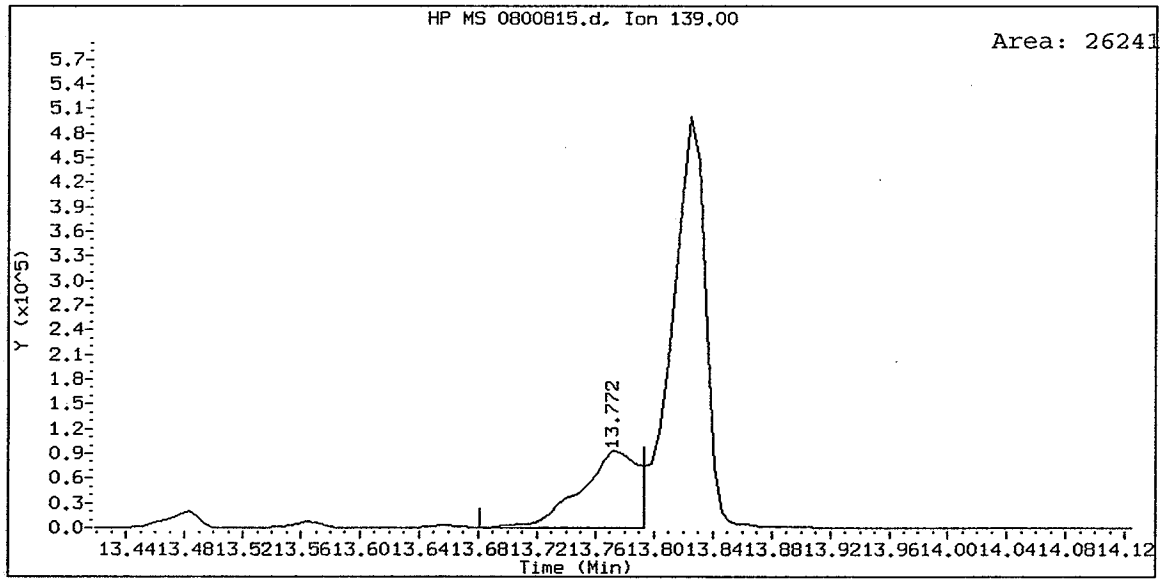
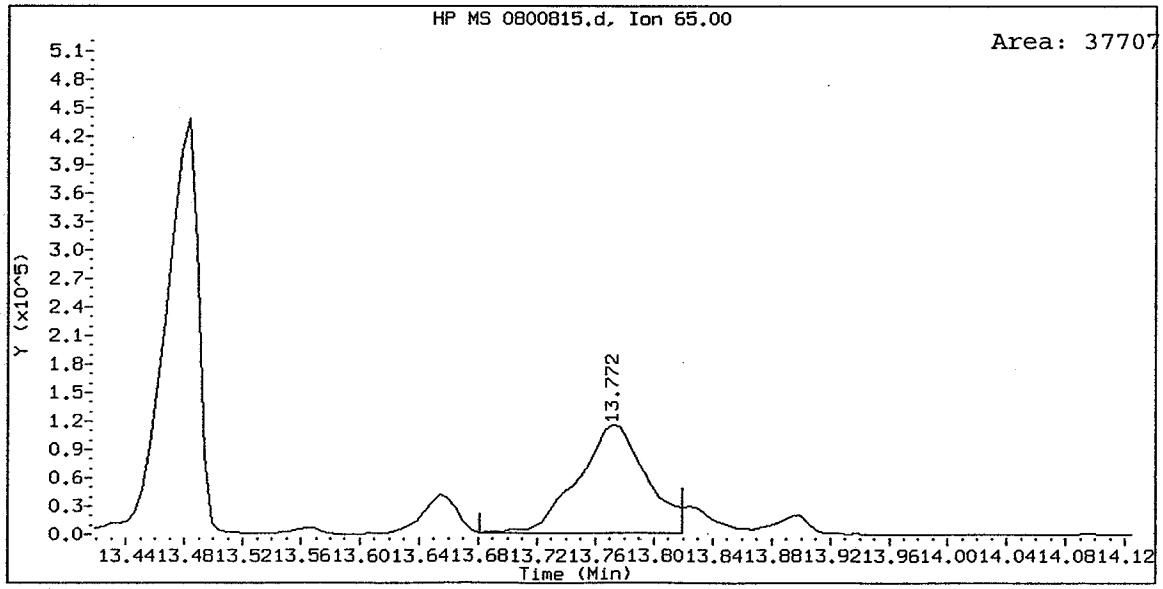
4-Nitrophenol Amount: 86.38







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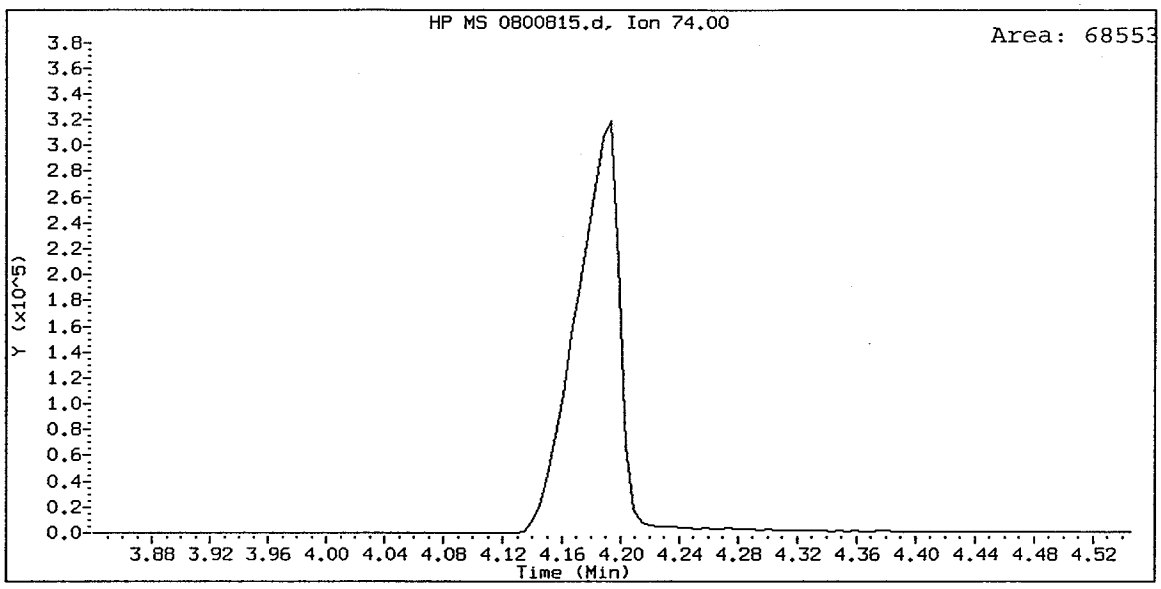
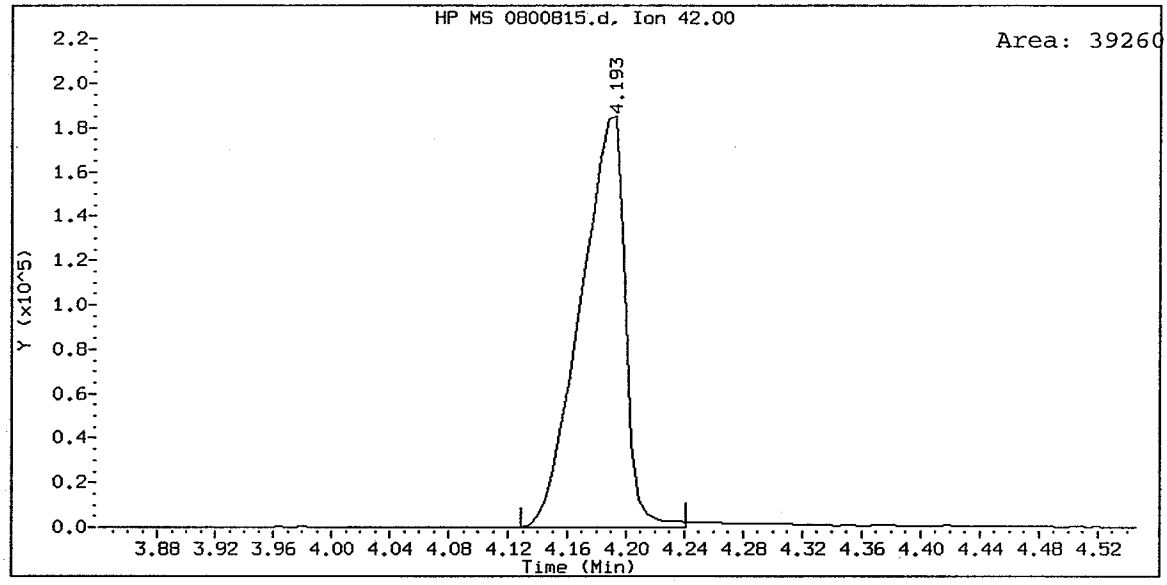
N-Nitrosodimethylamine Amount: 82.24





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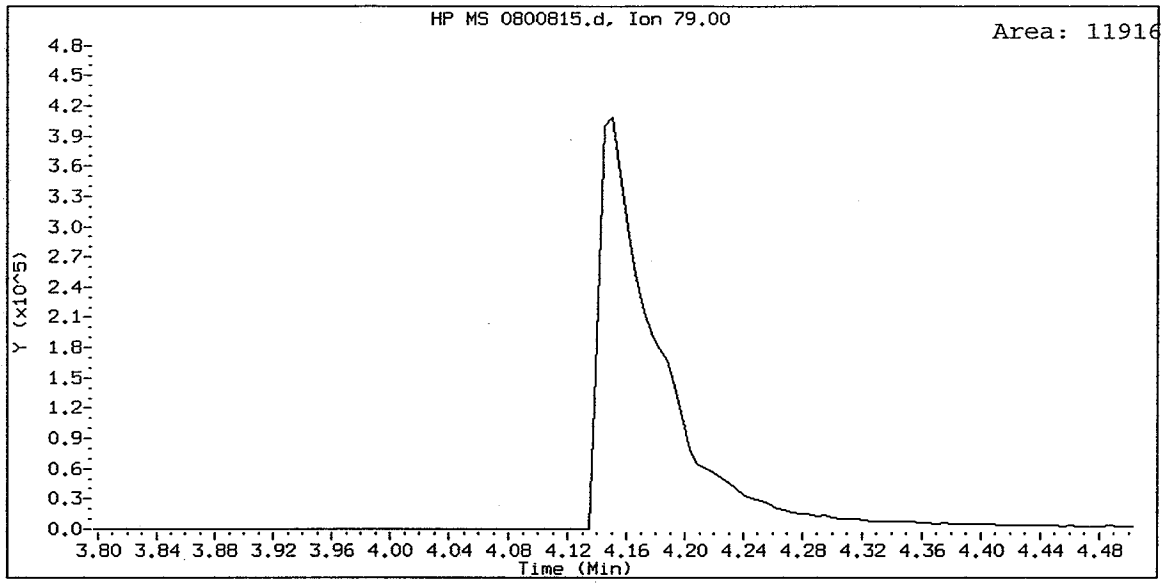
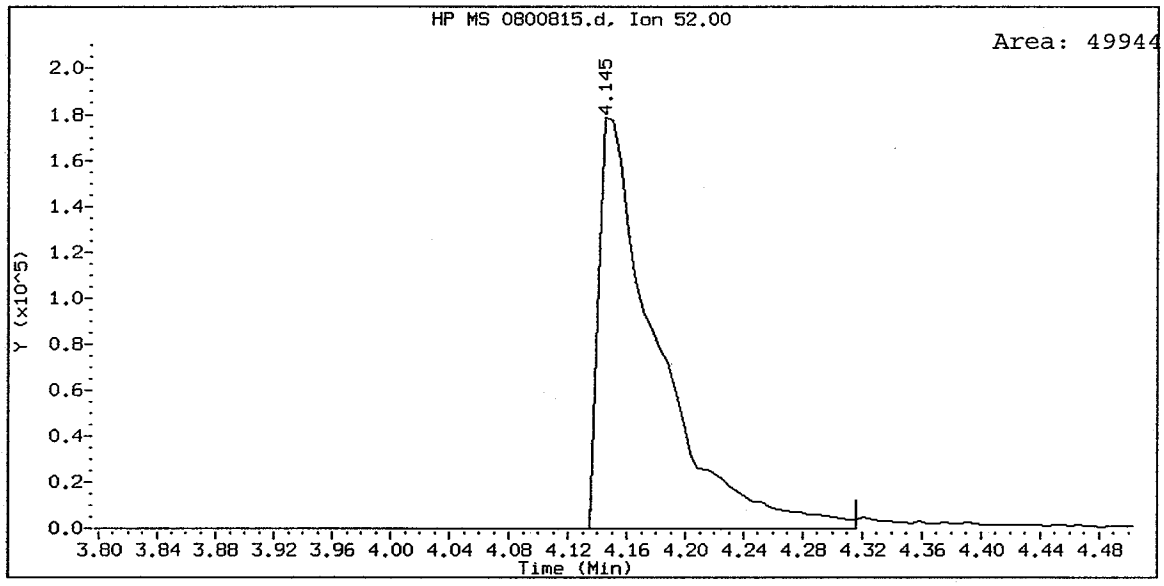
Pyridine Amount: 81.64





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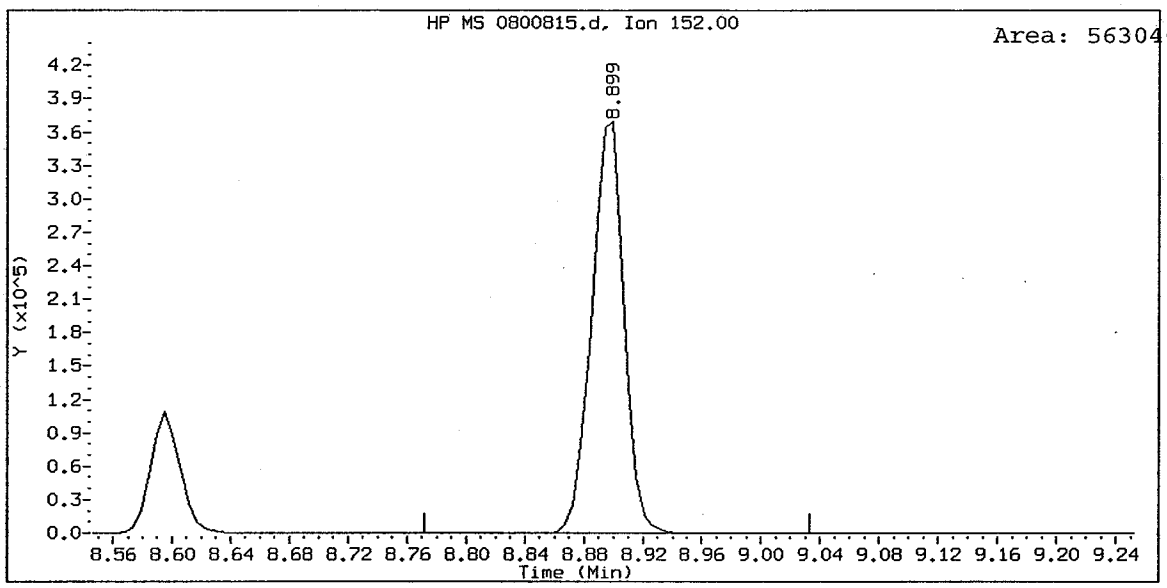
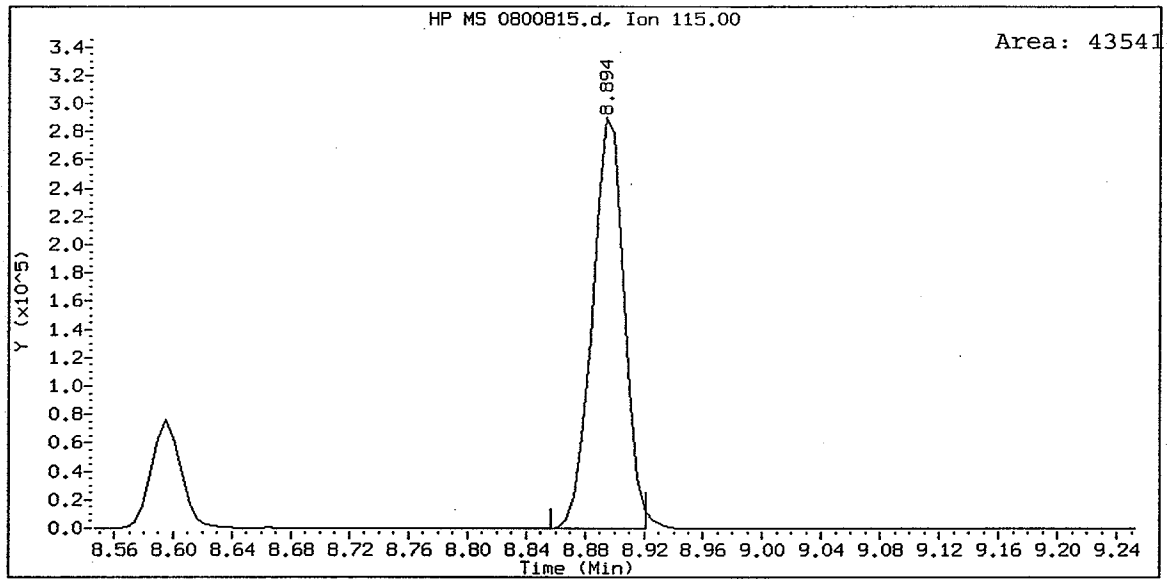
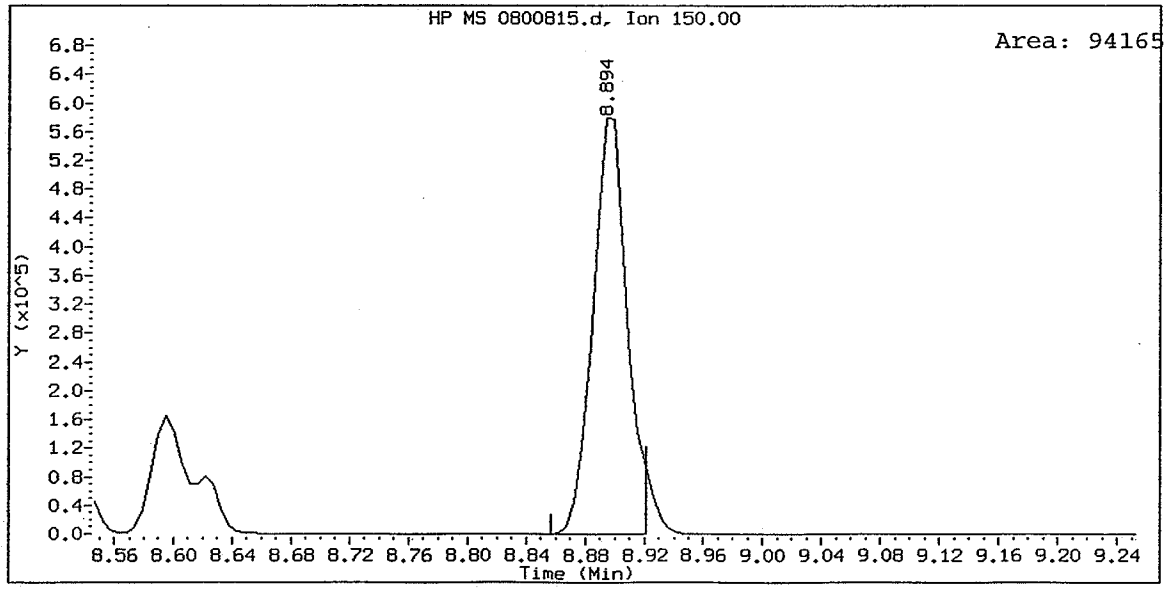
1,2-Dichlorobenzene-d4 Amount: 80.42







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060815.b/icv0815.d
Lab Smp Id: ABN ICV Client Smp ID: ABN ICV
Inj Date : 15-AUG-2006 12:13
Operator : VTS Inst ID: nt4.i
Smp Info : ABN ICV
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060815.b/SW846.m
Meth Date : 16-Aug-2006 11:59 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICV.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	3 Phenol	94	8.135	8.157	(0.947)	498562	27.0712	27.07
	4 Bis(2-Chloroethyl)ether	93	8.248	8.264	(0.960)	344122	26.6330	26.63
	6 2-Chlorophenol	128	8.306	8.317	(0.967)	300779	27.0150	27.01
	7 1,3-Dichlorobenzene	146	8.531	8.536	(0.993)	312057	26.3790	26.38
*	8 1,4-Dichlorobenzene-d4	152	8.589	8.595	(1.000)	158442	20.0000	
	9 1,4-Dichlorobenzene	146	8.616	8.622	(1.003)	316769	26.0362	26.04
	11 Benzyl alcohol	108	8.851	8.867	(1.030)	215976	25.8123	25.81
	12 1,2-Dichlorobenzene	146	8.910	8.921	(1.037)	302342	26.8838	26.88
	13 2-Methylphenol	108	9.065	9.076	(1.055)	299907	27.7033	27.70
	14 2,2'-oxybis(1-Chloropropane)	45	9.113	9.119	(1.061)	293181	28.3492	28.35
	15 4-Methylphenol	108	9.295	9.311	(1.082)	315929	28.4206	28.42
	16 N-Nitroso-di-n-propylamine	70	9.327	9.354	(1.086)	300898	27.7708	27.77
	17 Hexachloroethane	117	9.401	9.402	(1.095)	139465	27.2619	27.26
	19 Nitrobenzene	77	9.540	9.557	(0.897)	454198	26.6329	26.63
	20 Isophorone	82	9.920	9.941	(0.933)	762355	28.6519	28.65
	21 2-Nitrophenol	139	10.053	10.064	(0.946)	159537	27.0030	27.00
	22 2,4-Dimethylphenol	107	10.139	10.150	(0.954)	323693	26.4290	26.43
	23 Bis(2-Chloroethoxy)methane	93	10.294	10.304	(0.968)	400956	27.0690	27.07
	24 Benzoic acid	105	10.310	10.470	(0.970)	213787	26.7957	26.80
	25 2,4-Dichlorophenol	162	10.427	10.443	(0.981)	214419	26.9573	26.96
	26 1,2,4-Trichlorobenzene	180	10.571	10.577	(0.994)	239011	26.5872	26.59
*	27 Naphthalene-d8	136	10.630	10.636	(1.000)	597662	20.0000	
	28 Naphthalene	128	10.662	10.673	(1.003)	847684	26.4839	26.48
	29 4-Chloroaniline	127	10.790	10.801	(1.015)	338642	26.0962	26.10
	30 Hexachlorobutadiene	225	10.972	10.978	(1.032)	131097	25.4132	25.41
	31 4-Chloro-3-methylphenol	107	11.576	11.587	(1.089)	287648	27.3622	27.36
	32 2-Methylnaphthalene	141	11.784	11.790	(1.109)	448628	26.7064	26.71

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	33 Hexachlorocyclopentadiene	237	12.158	12.164	(0.900)	122383	28.9880	28.99
	34 2,4,6-Trichlorophenol	196	12.286	12.292	(0.910)	150836	27.7272	27.73
	35 2,4,5-Trichlorophenol	196	12.340	12.351	(0.914)	164237	28.6893	28.69
	37 2-Chloronaphthalene	162	12.564	12.575	(0.930)	482747	26.8467	26.85
	38 2-Nitroaniline	65	12.783	12.799	(0.947)	213686	27.3524	27.35
	39 Dimethylphthalate	163	13.152	13.168	(0.974)	530384	27.0593	27.06
	40 Acenaphthylene	152	13.248	13.259	(0.981)	767465	26.5511	26.55
	41 2,6-Dinitrotoluene	165	13.253	13.264	(0.981)	126840	27.2901	27.29
*	42 Acenaphthene-d10	164	13.504	13.510	(1.000)	314027	20.0000	
	43 3-Nitroaniline	138	13.462	13.483	(0.997)	138159	27.3550	27.35
	44 Acenaphthene	153	13.552	13.563	(1.004)	484105	26.5239	26.52
	45 2,4-Dinitrophenol	184	13.627	13.649	(1.009)	39831	26.8359	26.84
	46 Dibenzofuran	168	13.814	13.825	(1.023)	649348	26.8949	26.89
	47 4-Nitrophenol	109	13.734	13.772	(1.017)	87876	26.5427	26.54
	48 2,4-Dinitrotoluene	165	13.884	13.900	(1.028)	161152	27.6041	27.60
	49 Fluorene	166	14.375	14.386	(1.064)	538869	26.8108	26.81
	50 Diethylphthalate	149	14.311	14.322	(1.060)	534947	27.2778	27.28
	51 4-Chlorophenyl-phenylether	204	14.386	14.397	(1.065)	252062	26.7067	26.71
	52 4-Nitroaniline	138	14.466	14.498	(1.071)	125099	27.4238	27.42
	53 4,6-Dinitro-2-methylphenol	198	14.541	14.573	(0.915)	83077	27.4465	27.45
	54 N-Nitrosodiphenylamine	169	14.589	14.605	(0.918)	368245	41.1635	41.16 (R)
	56 4-Bromophenyl-phenylether	248	15.176	15.182	(0.955)	138739	27.0285	27.03
	57 Hexachlorobenzene	284	15.406	15.417	(0.969)	139897	26.9458	26.95
	58 Pentachlorophenol	266	15.695	15.711	(0.988)	93016	28.5313	28.53
*	59 Phenanthrene-d10	188	15.892	15.898	(1.000)	453922	20.0000	
	60 Phenanthrene	178	15.930	15.940	(1.002)	726703	27.3967	27.40
	61 Anthracene	178	16.004	16.015	(1.007)	740113	28.1721	28.17
	62 Carbazole	167	16.277	16.288	(1.024)	611394	25.9438	25.94
	63 Di-n-butylphthalate	149	16.971	16.977	(1.068)	840305	28.3913	28.39
	64 Fluoranthene	202	17.879	17.896	(1.125)	706418	27.0865	27.09
	65 Pyrene	202	18.243	18.254	(0.902)	729360	27.6247	27.62
	67 Butylbenzylphthalate	149	19.407	19.418	(0.959)	348413	28.5187	28.52
	68 Benzo(a)anthracene	228	20.209	20.225	(0.999)	651589	26.3625	26.36
*	69 Chrysene-d12	240	20.235	20.246	(1.000)	348572	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.198	20.214	(0.998)	206890	24.9219	24.92
	71 Chrysene	228	20.278	20.294	(1.002)	610999	26.3273	26.33
	72 bis(2-Ethylhexyl)phthalate	149	20.396	20.401	(0.956)	464012	28.7481	28.75
*	134 Di-n-octylphthalate-d4	153	21.330	21.341	(1.000)	689027	20.0000	
	73 Di-n-octylphthalate	149	21.341	21.347	(1.000)	794385	26.3437	26.34
	74 Benzo(b)fluoranthene	252	21.875	21.897	(0.976)	608301	25.5101	25.51
	75 Benzo(k)fluoranthene	252	21.913	21.934	(0.978)	716714	28.9316	28.93
	76 Benzo(a)pyrene	252	22.335	22.351	(0.996)	619003	28.3365	28.34
*	77 Perylene-d12	264	22.415	22.420	(1.000)	398708	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	24.183	24.221	(1.079)	795580	27.5637	27.56
	79 Dibenzo(a,h)anthracene	278	24.205	24.242	(1.080)	660976	28.0115	28.01
	80 Benzo(g,h,i)perylene	276	24.685	24.728	(1.101)	704057	27.7188	27.72
	103 Pyridine	79	4.156	4.150	(0.484)	424410	27.4217	27.42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
90 N-Nitrosodimethylamine	74	4.177	4.193	(0.486)	230764	26.1096	26.11
91 Aniline	93	8.141	8.152	(0.948)	559200	26.1383	26.14
105 1-methylnaphthalene	141	11.955	11.966	(1.125)	484737	28.3484	28.35
111 Azobenzene (1,2-DP-Hydrazine)	77	14.642	14.653	(1.084)	856717	28.5074	28.51
93 Benzidine	184	18.109	18.120	(0.895)	231714	22.8441	22.84

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: icv0815.d
Lab Smp Id: ABN ICV
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

Calibration Date: 15-AUG-2006
Calibration Time: 08:55
Client Smp ID: ABN ICV
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144618	72309	289236	158442	9.56
27 Naphthalene-d8	543038	271519	1086076	597662	10.06
42 Acenaphthene-d10	285517	142758	571034	314027	9.99
59 Phenanthrene-d10	409554	204777	819108	453922	10.83
69 Chrysene-d12	311119	155560	622238	348572	12.04
134 Di-n-octylphthala	651942	325971	1303884	689027	5.69
77 Perylene-d12	362847	181424	725694	398708	9.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.59	8.09	9.09	8.59	0.01
27 Naphthalene-d8	10.63	10.13	11.13	10.63	0.01
42 Acenaphthene-d10	13.50	13.00	14.00	13.50	0.01
59 Phenanthrene-d10	15.89	15.39	16.39	15.89	0.00
69 Chrysene-d12	20.23	19.73	20.73	20.24	0.00
134 Di-n-octylphthala	21.33	20.83	21.83	21.33	0.00
77 Perylene-d12	22.41	21.91	22.91	22.41	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20060815
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ABN ICV Client Smp ID: ABN ICV
Level: Operator: VTS
Data Type: MS DATA SampleType: LCS
SpikeList File: ICV.spk Quant Type: ISTD
Sublist File: ICV.sub
Method File: /chem3/nt4.i/20060815.b/SW846.m
Misc Info:

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3	Phenol	25.00	27.07	108.28	
4	Bis(2-Chloroethyl)	25.00	26.63	106.53	
6	2-Chlorophenol	25.00	27.01	108.06	
7	1,3-Dichlorobenzen	25.00	26.38	105.52	
9	1,4-Dichlorobenzen	25.00	26.04	104.14	
11	Benzyl alcohol	25.00	25.81	103.25	
12	1,2-Dichlorobenzen	25.00	26.88	107.54	
13	2-Methylphenol	25.00	27.70	110.81	
14	2,2'-oxybis(1-Chlo	25.00	28.35	113.40	
15	4-Methylphenol	25.00	28.42	113.68	
16	N-Nitroso-di-n-pro	25.00	27.77	111.08	
19	Nitrobenzene	25.00	26.63	106.53	
20	Isophorone	25.00	28.65	114.61	
21	2-Nitrophenol	25.00	27.00	108.01	
22	2,4-Dimethylphenol	25.00	26.43	105.72	
23	Bis(2-Chloroethoxy	25.00	27.07	108.28	
24	Benzoic acid	25.00	26.80	107.18	
25	2,4-Dichlorophenol	25.00	26.96	107.83	
26	1,2,4-Trichloroben	25.00	26.59	ok 106.35	
28	Naphthalene	25.00	26.48	105.94	
29	4-Chloroaniline	25.00	26.10	104.38	
30	Hexachlorobutadien	25.00	25.41	101.65	
31	4-Chloro-3-methylp	25.00	27.36	109.45	
32	2-Methylnaphthalen	25.00	26.71	106.83	
33	Hexachlorocyclopen	25.00	28.99	115.95	
34	2,4,6-Trichlorophe	25.00	27.73	110.91	
35	2,4,5-Trichlorophe	25.00	28.69	114.76	
37	2-Chloronaphthalen	25.00	26.85	107.39	
39	Dimethylphthalate	25.00	27.06	108.24	
40	Acenaphthylene	25.00	26.55	106.20	
43	3-Nitroaniline	25.00	27.35	109.42	
44	Acenaphthene	25.00	26.52	106.10	
46	Dibenzofuran	25.00	26.89	107.58	

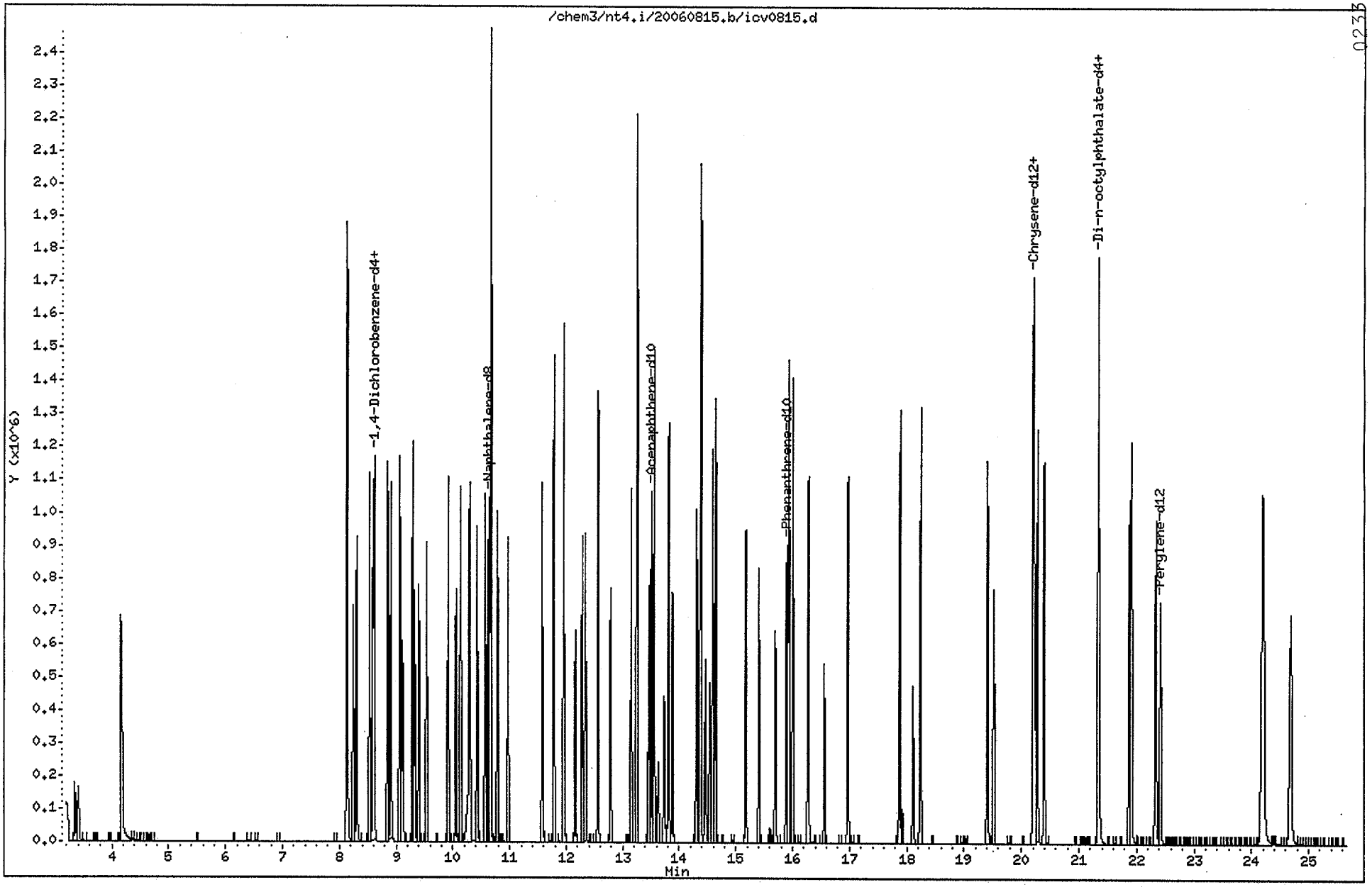
SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
48	2,4-Dinitrotoluene	25.00	27.60	110.42	
49	Fluorene	25.00	26.81	107.24	
50	Diethylphthalate	25.00	27.28	109.11	
51	4-Chlorophenyl-phe	25.00	26.71	106.83	
52	4-Nitroaniline	25.00	27.42	109.70	
53	4,6-Dinitro-2-meth	25.00	27.45	109.79	
54	N-Nitrosodiphenyla	25.00	41.16	164.65*	
56	4-Bromophenyl-phen	25.00	27.03	108.11	
57	Hexachlorobenzene	25.00	26.95	107.78	
58	Pentachlorophenol	25.00	28.53	114.13	
60	Phenanthrene	25.00	27.40	109.59	
61	Anthracene	25.00	28.17	OK 112.69	
62	Carbazole	25.00	25.94	103.78	
63	Di-n-butylphthalat	25.00	28.39	113.57	
64	Fluoranthene	25.00	27.09	108.35	
65	Pyrene	25.00	27.62	110.50	
67	Butylbenzylphthala	25.00	28.52	114.07	
68	Benzo(a)anthracene	25.00	26.36	105.45	
70	3,3'-Dichlorobenzi	25.00	24.92	99.69	
71	Chrysene	25.00	26.33	105.31	
72	bis(2-Ethylhexyl)p	25.00	28.75	114.99	
73	Di-n-octylphthalat	25.00	26.34	105.37	
74	Benzo(b)fluoranthe	25.00	25.51	102.04	
75	Benzo(k)fluoranthe	25.00	28.93	115.73	
76	Benzo(a)pyrene	25.00	28.34	113.35	
78	Indeno(1,2,3-cd)py	25.00	27.56	110.25	
79	Dibenzo(a,h)anthra	25.00	28.01	112.05	
80	Benzo(g,h,i)peryle	25.00	27.72	110.88	
103	Pyridine	25.00	27.42	109.69	
90	N-Nitrosodimethyla	25.00	26.11	104.44	
91	Aniline	25.00	26.14	104.55	
105	1-methylnaphthalen	25.00	28.35	113.39	
111	Azobenzene (1,2-DP	25.00	28.51	114.03	
93	Benzidine	25.00	22.84	91.38	

Data File: /chem3/nt4.i/20060815.b/icv0815.d
Date : 15-AUG-2006 12:13
Client ID: ABN ICV
Sample Info: ABN ICV

Instrument: nt4.i

Operator: VTS
Column diameter: 0.32

Column phase: ZB-5



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Instrument ID: NT4 Cont. Calib. Date: 09/05/06

Init. Calib. Date: 08/15/06 Cont. Calib. Time: 1442

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	2.325	2.418	0.100	-4.0	20.0
Bis(2-Chloroethyl)ether	1.631	1.855	0.100	-13.7	
2-Chlorophenol	1.406	1.544	0.100	-9.8	
1,3-Dichlorobenzene	1.493	1.603	0.100	-7.4	
1,4-Dichlorobenzene	1.536	1.642	0.100	-6.9	20.0
1,2-Dichlorobenzene	1.420	1.547	0.100	-8.9	
Benzyl alcohol	1.056	1.312	0.100	-24.2	
2,2'-oxybis(1-Chloropropane)	1.305	1.652	0.100	-26.6	
2-Methylphenol	1.366	1.604	0.100	-17.4	
Hexachloroethane	0.646	0.699	0.100	-8.2	
N-Nitroso-di-n-propylamine	1.368	1.586	0.050	-15.9	
4-Methylphenol	1.403	1.713	0.100	-22.1	
Nitrobenzene	0.571	0.612	0.100	-7.2	
Isophorone	0.890	0.986	0.100	-10.8	
2-Nitrophenol	0.198	0.206	0.100	-4.0	20.0
2,4-Dimethylphenol	0.410	0.459	0.100	-12.0	
Bis(2-Chloroethoxy)methane	0.496	0.552	0.100	-11.3	
2,4-Dichlorophenol	0.266	0.297	0.100	-11.6	20.0
1,2,4-Trichlorobenzene	0.301	0.312	0.100	-3.6	
Naphthalene	1.071	1.130	0.100	-5.5	
Benzoic acid	0.267	0.282	0.100	-5.6	
4-Chloroaniline	0.434	0.469	0.100	-8.1	
Hexachlorobutadiene	0.172	0.175	0.100	-1.7	20.0
4-Chloro-3-methylphenol	0.352	0.382	0.100	-8.5	20.0
2-Methylnaphthalene	0.562	0.597	0.100	-6.2	
Hexachlorocyclopentadiene	0.269	0.276	0.050	-2.6	
2,4,6-Trichlorophenol	0.346	0.363	0.100	-4.9	20.0
2,4,5-Trichlorophenol	0.365	0.385	0.100	-5.5	
2-Chloronaphthalene	1.145	1.182	0.100	-3.2	
2-Nitroaniline	0.498	0.555	0.100	-11.4	
Acenaphthylene	1.841	1.905	0.100	-3.5	
Dimethylphthalate	1.248	1.292	0.100	-3.5	
2,6-Dinitrotoluene	0.296	0.307	0.100	-3.7	
Acenaphthene	1.162	1.197	0.100	-3.0	20.0
3-Nitroaniline	0.322	0.367	0.100	-14.0	
2,4-Dinitrophenol	0.094	0.072	0.050	23.4	
Dibenzofuran	1.538	1.583	0.100	-2.9	

<- Outside QC limits

FORM VII SV-1

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Instrument ID: NT4 Cont. Calib. Date: 09/05/06

Init. Calib. Date: 08/15/06 Cont. Calib. Time: 1442

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
4-Nitrophenol	0.211	0.247	0.050	-17.1	
2,4-Dinitrotoluene	0.372	0.397	0.100	-6.7	
Fluorene	1.280	1.320	0.100	-3.1	
4-Chlorophenyl-phenylether	0.601	0.610	0.100	-1.5	
Diethylphthalate	1.249	1.332	0.100	-6.6	
4-Nitroaniline	0.290	0.342	0.100	-17.9	
4,6-Dinitro-2-methylphenol	0.133	0.118	0.100	11.3	
N-Nitrosodiphenylamine(1)	0.394	0.395	0.100	-0.2	
4-Bromophenyl-phenylether	0.226	0.230	0.100	-1.8	
Hexachlorobenzene	0.229	0.230	0.100	-0.4	
Pentachlorophenol	0.144	0.147	0.100	-2.1	20.0
Phenanthrene	1.169	1.197	0.100	-2.4	
Anthracene	1.157	1.197	0.100	-3.4	
Carbazole	1.038	1.090	0.100	-5.0	
Di-n-butylphthalate	1.304	1.418	0.100	-8.7	
Fluoranthene	1.149	1.219	0.100	-6.1	20.0
Pyrene	1.515	1.511	0.100	0.3	
Butylbenzylphthalate	0.701	0.740	0.100	-5.6	
Benzo(a)anthracene	1.418	1.460	0.100	-3.0	
3,3'-Dichlorobenzidine	0.476	0.498	0.100	-4.6	
Chrysene	1.331	1.361	0.100	-2.2	
bis(2-Ethylhexyl)phthalate	0.468	0.496	0.100	-6.0	
Di-n-octylphthalate	0.875	0.900	0.100	-2.8	20.0
Benzo(b)fluoranthene	1.196	1.367	0.100	-14.3	
Benzo(k)fluoranthene	1.243	1.249	0.100	-0.5	
Benzo(a)pyrene	1.096	1.150	0.100	-4.9	20.0
Indeno(1,2,3-cd)pyrene	1.448	1.523	0.100	-5.2	
Dibenzo(a,h)anthracene	1.184	1.299	0.100	-9.7	
Benzo(g,h,i)perylene	1.274	1.308	0.100	-2.7	
N-Nitrosodimethylamine	1.115	1.158	0.100	-3.8	
Aniline	2.700	2.801	0.100	-3.7	
Benzidine	0.582	0.368	0.100	36.8	
Pyridine	1.954	1.948	0.100	0.3	
1-methylnaphthalene	0.572	0.603	0.100	-5.4	
Azobenzene (1,2-DP-Hydrazine	1.914	2.041	0.100	-6.6	

(1) Cannot be separated from Diphenylamine

<- Outside QC limits

FORM VII SV-2

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Instrument ID: NT4 Cont. Calib. Date: 09/05/06

Init. Calib. Date: 08/15/06 Cont. Calib. Time: 1442

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
2-Fluorophenol	1.595	1.712	0.100	-7.3	
Phenol-d5	1.927	2.161	0.100	-12.1	
2-Chlorophenol-d4	1.552	1.686	0.100	-8.6	
1,2-Dichlorobenzene-d4	0.937	0.980	0.100	-4.6	
Nitrobenzene-d5	0.576	0.608	0.100	-5.6	
2-Fluorobiphenyl	1.366	1.378	0.100	-0.9	
2,4,6-Tribromophenol	0.166	0.161	0.100	3.0	
Terphenyl-d14	1.057	1.040	0.100	1.6	

<- Outside QC limits

FORM VII SV-3

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 05-SEP-2006 14:42
Lab File ID: cc0905.d Init. Cal. Date(s): 15-AUG-2006 15-AUG-2006
Analysis Type: Init. Cal. Times: 08:55 11:40
Lab Sample ID: ABN 25 Quant Type: ISTD
Method: /chem3/nt4.i/20060905.b/SW846.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.59540	1.71227	0.010	-7.32538	100	Averaged
$ 2 Phenol-d5	1.92720	2.16092	0.010	-12.12770	100	Averaged
3 Phenol	2.32473	2.41854	0.010	-4.03546	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.55253	1.68642	0.010	-8.62355	100	Averaged
4 Bis(2-Chloroethyl)ether	1.63099	1.85510	0.010	-13.74049	100	Averaged
6 2-Chlorophenol	1.40541	1.54395	0.010	-9.85783	100	Averaged
7 1,3-Dichlorobenzene	1.49326	1.60286	0.010	-7.33937	100	Averaged
9 1,4-Dichlorobenzene	1.53576	1.64203	0.010	-6.91963	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.93707	0.97965	0.010	-4.54322	100	Averaged
12 1,2-Dichlorobenzene	1.41960	1.54666	0.010	-8.94993	100	Averaged
11 Benzyl alcohol	1.05618	1.31196	0.010	-24.21768	100	Averaged
14 2,2'-oxybis(1-Chloropropane	1.30543	1.65249	0.010	-26.58520	100	Averaged
13 2-Methylphenol	1.36651	1.60439	0.010	-17.40714	100	Averaged
17 Hexachloroethane	0.64576	0.69902	0.010	-8.24876	100	Averaged
16 N-Nitroso-di-n-propylamine	1.36770	1.58659	0.050	-16.00476	100	Averaged
15 4-Methylphenol	1.40319	1.71292	0.010	-22.07303	100	Averaged
$ 18 Nitrobenzene-d5	0.57658	0.60755	0.010	-5.37183	100	Averaged
19 Nitrobenzene	0.57069	0.61189	0.010	-7.21855	100	Averaged
20 Isophorone	0.89039	0.98581	0.010	-10.71751	100	Averaged
21 2-Nitrophenol	0.19771	0.20564	0.010	-4.01159	20.00000	Averaged
22 2,4-Dimethylphenol	0.40985	0.45861	0.010	-11.89576	100	Averaged
23 Bis(2-Chloroethoxy)methane	0.49568	0.55190	0.010	-11.34313	100	Averaged
24 Benzoic acid	0.26699	0.28202	0.010	-5.63072	100	Averaged
25 2,4-Dichlorophenol	0.26617	0.29675	0.010	-11.48804	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.30083	0.31160	0.010	-3.57991	100	Averaged
28 Naphthalene	1.07109	1.13027	0.010	-5.52516	100	Averaged
29 4-Chloroaniline	0.43425	0.46911	0.010	-8.02754	100	Averaged
30 Hexachlorobutadiene	0.17263	0.17530	0.010	-1.55135	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35179	0.38240	0.010	-8.69989	20.00000	Averaged
32 2-Methylnaphthalene	0.56214	0.59675	0.010	-6.15738	100	Averaged
33 Hexachlorocyclopentadiene	0.26888	0.27562	0.050	-2.50645	100	Averaged
34 2,4,6-Trichlorophenol	0.34647	0.36334	0.010	-4.87108	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.36460	0.38502	0.010	-5.60061	100	Averaged
$ 36 2-Fluorobiphenyl	1.36552	1.37858	0.010	-0.95653	100	Averaged
37 2-Chloronaphthalene	1.14523	1.18165	0.010	-3.18064	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 05-SEP-2006 14:42
Lab File ID: cc0905.d Init. Cal. Date(s): 15-AUG-2006 15-AUG-2006
Analysis Type: Init. Cal. Times: 08:55 11:40
Lab Sample ID: ABN 25 Quant Type: ISTD
Method: /chem3/nt4.i/20060905.b/SW846.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 2-Nitroaniline	0.49756	0.55514	0.010	-11.57243	100	Averaged
39 Dimethylphthalate	1.24835	1.29244	0.010	-3.53160	100	Averaged
40 Acenaphthylene	1.84094	1.90501	0.010	-3.48054	100	Averaged
41 2,6-Dinitrotoluene	0.29602	0.30714	0.010	-3.75865	100	Averaged
43 3-Nitroaniline	0.32167	0.36678	0.010	-14.02441	100	Averaged
44 Acenaphthene	1.16242	1.19733	0.010	-3.00329	20.00000	Averaged
45 2,4-Dinitrophenol	0.09453	0.07157	0.050	24.29337	100	Averaged
46 Dibenzofuran	1.53770	1.58263	0.010	-2.92222	100	Averaged
47 4-Nitrophenol	0.21086	0.24744	0.050	-17.35005	100	Averaged
48 2,4-Dinitrotoluene	0.37181	0.39705	0.010	-6.78764	100	Averaged
50 Diethylphthalate	1.24901	1.33196	0.010	-6.64175	100	Averaged
49 Fluorene	1.28008	1.32058	0.010	-3.16424	100	Averaged
51 4-Chlorophenyl-phenylether	0.60110	0.60987	0.010	-1.45762	100	Averaged
52 4-Nitroaniline	0.29053	0.34205	0.010	-17.73289	100	Averaged
53 4,6-Dinitro-2-methylphenol	0.13337	0.11839	0.010	11.22857	100	Averaged
54 N-Nitrosodiphenylamine	0.39416	0.39482	0.010	-0.16802	20.00000	Averaged
$ 55 2,4,6-Tribromophenol	0.16616	0.16103	0.010	3.08909	100	Averaged
56 4-Bromophenyl-phenylether	0.22617	0.23038	0.010	-1.86215	100	Averaged
57 Hexachlorobenzene	0.22875	0.22981	0.010	-0.46253	100	Averaged
58 Pentachlorophenol	0.14364	0.14741	0.010	-2.62088	20.00000	Averaged
60 Phenanthrene	1.16871	1.19734	0.010	-2.44957	100	Averaged
61 Anthracene	1.15752	1.19721	0.010	-3.42915	100	Averaged
62 Carbazole	1.03833	1.08979	0.010	-4.95635	100	Averaged
63 Di-n-butylphthalate	1.30407	1.41817	0.010	-8.74950	100	Averaged
64 Fluoranthene	1.14910	1.21941	0.010	-6.11872	20.00000	Averaged
65 Pyrene	1.51489	1.51089	0.010	0.26392	100	Averaged
$ 66 Terphenyl-d14	1.05706	1.04000	0.010	1.61430	100	Averaged
67 Butylbenzylphthalate	0.70098	0.74004	0.010	-5.57228	100	Averaged
68 Benzo(a)anthracene	1.41816	1.45956	0.010	-2.91930	100	Averaged
70 3,3'-Dichlorobenzidine	0.47632	0.49769	0.010	-4.48726	100	Averaged
71 Chrysene	1.33159	1.36082	0.010	-2.19450	100	Averaged
72 bis(2-Ethylhexyl)phthalate	0.46850	0.49586	0.010	-5.83996	100	Averaged
73 Di-n-octylphthalate	0.87528	0.90002	0.010	-2.82636	20.00000	Averaged
74 Benzo(b)fluoranthene	1.19614	1.36661	0.010	-14.25194	100	Averaged
75 Benzo(k)fluoranthene	1.24265	1.24915	0.010	-0.52365	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 05-SEP-2006 14:42
Lab File ID: cc0905.d Init. Cal. Date(s): 15-AUG-2006 15-AUG-2006
Analysis Type: Init. Cal. Times: 08:55 11:40
Lab Sample ID: ABN 25 Quant Type: ISTD
Method: /chem3/nt4.i/20060905.b/SW846.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
76 Benzo(a)pyrene	1.09578	1.14984	0.010	-4.93345	20.00000	Averaged	
78 Indeno(1,2,3-cd)pyrene	1.44784	1.52264	0.010	-5.16665	100	Averaged	
79 Dibenzo(a,h)anthracene	1.18365	1.29864	0.010	-9.71479	100	Averaged	
80 Benzo(g,h,i)perylene	1.27411	1.30792	0.010	-2.65320	100	Averaged	
90 N-Nitrosodimethylamine	1.11565	1.15772	0.010	-3.77119	100	Averaged	
103 Pyridine	1.95367	1.94820	0.010	0.28018	100	Averaged	
91 Aniline	2.70053	2.80135	0.010	-3.73343	100	Averaged	
105 1-methylnaphthalene	0.57221	0.60266	0.010	-5.32303	100	Averaged	
93 Benzidine	0.58199	0.36850	0.010	36.68232	100	Averaged	
98 Retene	0.68488	0.69101	0.010	-0.89543	100	Averaged	
111 Azobenzene (1,2-DP-Hydrazin	1.91400	2.04150	0.010	-6.66113	100	Averaged	
144 alpha-Terpineol	0.25459	0.19843	0.010	22.05921	100	Averaged	
143 1,4-Dioxane	0.64061	++++	0.010	++++	100	Averaged	<-
$ 137 d8-1,4-Dioxane	0.62746	0.00099	0.010	100	100	Averaged	<-
133 Butylatedhydroxytoluene	1.02036	1.03342	0.010	-1.28043	100	Averaged	
115 Tributyl Phosphate	1.16998	1.29100	0.010	-10.34337	100	Averaged	
116 Dibutyl Phenyl Phosphate	0.79873	0.86720	0.010	-8.57218	100	Averaged	
117 Butyl Diphenyl Phosphate	0.38503	0.41064	0.010	-6.65191	100	Averaged	
118 Triphenyl Phosphate	0.23113	0.22293	0.010	3.54776	100	Averaged	

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/cc0905.d
Lab Smp Id: ABN 25
Inj Date : 05-SEP-2006 14:42
Operator : VTS Inst ID: nt4.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 09:49 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJK 9/6/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.571	5.571	(0.739)	317776	25.0000	26.83
$	2 Phenol-d5	99	7.162	7.162	(0.950)	401040	25.0000	28.03
	3 Phenol	94	7.184	7.184	(0.953)	448851	25.0000	26.01
$	5 2-Chlorophenol-d4	132	7.248	7.248	(0.962)	312978	25.0000	27.16
	4 Bis(2-Chloroethyl)ether	93	7.232	7.232	(0.960)	344283	25.0000	28.44
	6 2-Chlorophenol	128	7.269	7.269	(0.965)	286538	25.0000	27.46
	7 1,3-Dichlorobenzene	146	7.472	7.472	(0.991)	297470	25.0000	26.83
*	8 1,4-Dichlorobenzene-d4	152	7.536	7.536	(1.000)	148470	20.0000	
	9 1,4-Dichlorobenzene	146	7.563	7.563	(1.004)	304741	25.0000	26.73
$	10 1,2-Dichlorobenzene-d4	152	7.836	7.836	(1.040)	181810	25.0000	26.14
	12 1,2-Dichlorobenzene	146	7.857	7.857	(1.043)	287040	25.0000	27.24
	11 Benzyl alcohol	108	7.846	7.846	(1.041)	243484	25.0000	31.05
	14 2,2'-oxybis(1-Chloropropane)	45	8.108	8.108	(1.076)	306681	25.0000	31.65
	13 2-Methylphenol	108	8.103	8.103	(1.075)	297754	25.0000	29.35
	17 Hexachloroethane	117	8.338	8.338	(1.106)	129730	25.0000	27.06
	16 N-Nitroso-di-n-propylamine	70	8.322	8.322	(1.104)	294452	25.0000	29.00
	15 4-Methylphenol	108	8.338	8.338	(1.106)	317896	25.0000	30.52
$	18 Nitrobenzene-d5	82	8.471	8.471	(0.878)	431281	25.0000	26.34
	19 Nitrobenzene	77	8.498	8.498	(0.880)	434358	25.0000	26.80
	20 Isophorone	82	8.888	8.888	(0.921)	699796	25.0000	27.68
	21 2-Nitrophenol	139	9.016	9.016	(0.934)	145976	25.0000	26.00
	22 2,4-Dimethylphenol	107	9.160	9.160	(0.949)	325550	25.0000	27.97
	23 Bis(2-Chloroethoxy)methane	93	9.294	9.294	(0.963)	391777	25.0000	27.84
	24 Benzoic acid	105	9.438	9.438	(0.978)	400394	50.0000	52.82
	25 2,4-Dichlorophenol	162	9.406	9.406	(0.975)	210652	25.0000	27.87
	26 1,2,4-Trichlorobenzene	180	9.524	9.524	(0.987)	221193	25.0000	25.89
*	27 Naphthalene-d8	136	9.572	9.572	(1.000)	567893	20.0000	(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.604	9.604	(0.995)	802340	25.0000	26.38
	29 4-Chloroaniline	127	9.764	9.764	(1.012)	333003	25.0000	27.01
	30 Hexachlorobutadiene	225	9.930	9.930	(1.029)	124443	25.0000	25.39
	31 4-Chloro-3-methylphenol	107	10.597	10.597	(1.098)	271450	25.0000	27.17
	32 2-Methylnaphthalene	141	10.720	10.720	(1.111)	423615	25.0000	26.54
	33 Hexachlorocyclopentadiene	237	11.100	11.100	(0.895)	104653	25.0000	25.63
	34 2,4,6-Trichlorophenol	196	11.244	11.244	(0.907)	137960	25.0000	26.22
	35 2,4,5-Trichlorophenol	196	11.297	11.297	(0.911)	146189	25.0000	26.40
$	36 2-Fluorobiphenyl	172	11.367	11.367	(0.916)	523439	25.0000	25.24
	37 2-Chloronaphthalene	162	11.484	11.484	(0.926)	448667	25.0000	25.80
	38 2-Nitroaniline	65	11.730	11.730	(0.946)	210783	25.0000	27.89
	39 Dimethylphthalate	163	12.115	12.115	(0.977)	490732	25.0000	25.88
	40 Acenaphthylene	152	12.152	12.152	(0.980)	723324	25.0000	25.87
	41 2,6-Dinitrotoluene	165	12.200	12.200	(0.984)	116620	25.0000	25.94
*	42 Acenaphthene-d10	164	12.403	12.403	(1.000)	303756	20.0000	
	43 3-Nitroaniline	138	12.403	12.403	(1.000)	139264	25.0000	28.51
	44 Acenaphthene	153	12.457	12.457	(1.004)	454622	25.0000	25.75
	45 2,4-Dinitrophenol	184	12.569	12.569	(1.013)	54346	50.0000	37.85
	46 Dibenzofuran	168	12.713	12.713	(1.025)	600917	25.0000	25.73
	47 4-Nitrophenol	109	12.750	12.750	(1.028)	93952	25.0000	29.34
	48 2,4-Dinitrotoluene	165	12.820	12.820	(1.034)	150758	25.0000	26.70
	50 Diethylphthalate	149	13.269	13.269	(1.070)	505740	25.0000	26.66
	49 Fluorene	166	13.269	13.269	(1.070)	501418	25.0000	25.79
	51 4-Chlorophenyl-phenylether	204	13.306	13.306	(1.073)	231563	25.0000	25.36
	52 4-Nitroaniline	138	13.391	13.391	(1.080)	129874	25.0000	29.43
	53 4,6-Dinitro-2-methylphenol	198	13.466	13.466	(0.913)	132193	50.0000	44.39
	54 N-Nitrosodiphenylamine	169	13.514	13.514	(0.916)	220427	25.0000	25.04
$	55 2,4,6-Tribromophenol	330	13.691	13.691	(1.104)	61142	25.0000	24.23
	56 4-Bromophenyl-phenylether	248	14.075	14.075	(0.954)	128618	25.0000	25.47
	57 Hexachlorobenzene	284	14.278	14.278	(0.968)	128302	25.0000	25.12
	58 Pentachlorophenol	266	14.588	14.588	(0.989)	82297	25.0000	25.66
*	59 Phenanthrene-d10	188	14.754	14.754	(1.000)	446635	20.0000	
	60 Phenanthrene	178	14.786	14.786	(1.002)	668467	25.0000	25.61
	61 Anthracene	178	14.860	14.860	(1.007)	668394	25.0000	25.86
	62 Carbazole	167	15.154	15.154	(1.027)	608425	25.0000	26.24
	63 Di-n-butylphthalate	149	15.902	15.902	(1.078)	791755	25.0000	27.19
	64 Fluoranthene	202	16.704	16.704	(1.132)	680788	25.0000	26.53
	65 Pyrene	202	17.051	17.051	(0.896)	703256	25.0000	24.93
$	66 Terphenyl-d14	244	17.393	17.393	(0.914)	484075	25.0000	24.60
	67 Butylbenzylphthalate	149	18.296	18.296	(0.961)	344455	25.0000	26.39
	68 Benzo(a)anthracene	228	19.006	19.006	(0.999)	679363	25.0000	25.73
*	69 Chrysene-d12	240	19.033	19.033	(1.000)	372366	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.033	19.033	(1.000)	231654	25.0000	26.12
	71 Chrysene	228	19.070	19.070	(1.002)	633402	25.0000	25.55
	72 bis(2-Ethylhexyl)phthalate	149	19.305	19.305	(0.954)	489670	25.0000	26.46
*	134 Di-n-octylphthalate-d4	153	20.235	20.235	(1.000)	790006	20.0000	
	73 Di-n-octylphthalate	149	20.245	20.245	(1.001)	888777	25.0000	25.71

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.651	20.651	(0.976)	702200	25.0000	28.56
75	Benzo(k)fluoranthene	252	20.683	20.683	(0.977)	641847	25.0000	25.13
76	Benzo(a)pyrene	252	21.089	21.089	(0.996)	590815	25.0000	26.23
* 77	Perylene-d12	264	21.164	21.164	(1.000)	411060	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.532	22.532	(1.065)	782373	25.0000	26.29
79	Dibenzo(a,h)anthracene	278	22.559	22.559	(1.066)	667275	25.0000	27.43
80	Benzo(g,h,i)perylene	276	22.874	22.874	(1.081)	672041	25.0000	25.66
90	N-Nitrosodimethylamine	74	2.723	2.723	(0.361)	214859	25.0000	25.94
103	Pyridine	79	2.712	2.712	(0.360)	361561	25.0000	24.93
91	Aniline	93	7.104	7.104	(0.943)	519896	25.0000	25.93
105	1-methylnaphthalene	141	10.886	10.886	(1.128)	427811	25.0000	26.33
93	Benzidine	184	16.976	16.976	(0.892)	171522	25.0000	15.83
98	Retene	219	17.633	17.633	(0.926)	321635	25.0000	25.22
111	Azobenzene (1,2-DP-Hydrazine)	77	13.552	13.552	(1.093)	775146	25.0000	26.67
144	alpha-Terpineol	59	9.652	9.652	(1.000)	140857	25.0000	19.49
143	1,4-Dioxane	88	Compound Not Detected.					
$ 137	d8-1,4-Dioxane	96	Compound Not Detected.					
133	Butylatedhydroxytoluene	205	12.611	12.611	(1.017)	392385	25.0000	25.32
115	Tributyl Phosphate	99	13.653	13.653	(0.925)	720757	25.0000	27.59
116	Dibutyl Phenyl Phosphate	175	15.352	15.352	(1.041)	484152	25.0000	27.14
117	Butyl Diphenyl Phosphate	94	17.013	17.013	(0.894)	191137	25.0000	26.66
118	Triphenyl Phosphate	326	18.600	18.600	(0.977)	103764	25.0000	24.11

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: cc0905.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info:

Calibration Date: 05-SEP-2006
Calibration Time: 14:42

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	148470	0.00
27 Naphthalene-d8	567893	283946	1135786	567893	0.00
42 Acenaphthene-d10	303756	151878	607512	303756	0.00
59 Phenanthrene-d10	446635	223318	893270	446635	0.00
69 Chrysene-d12	372366	186183	744732	372366	0.00
134 Di-n-octylphthala	790006	395003	1580012	790006	0.00
77 Perylene-d12	411060	205530	822120	411060	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.00
27 Naphthalene-d8	9.57	9.07	10.07	9.57	0.00
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.00
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	0.00
69 Chrysene-d12	19.03	18.53	19.53	19.03	0.00
134 Di-n-octylphthala	20.23	19.73	20.73	20.23	0.00
77 Perylene-d12	21.16	20.66	21.66	21.16	0.00

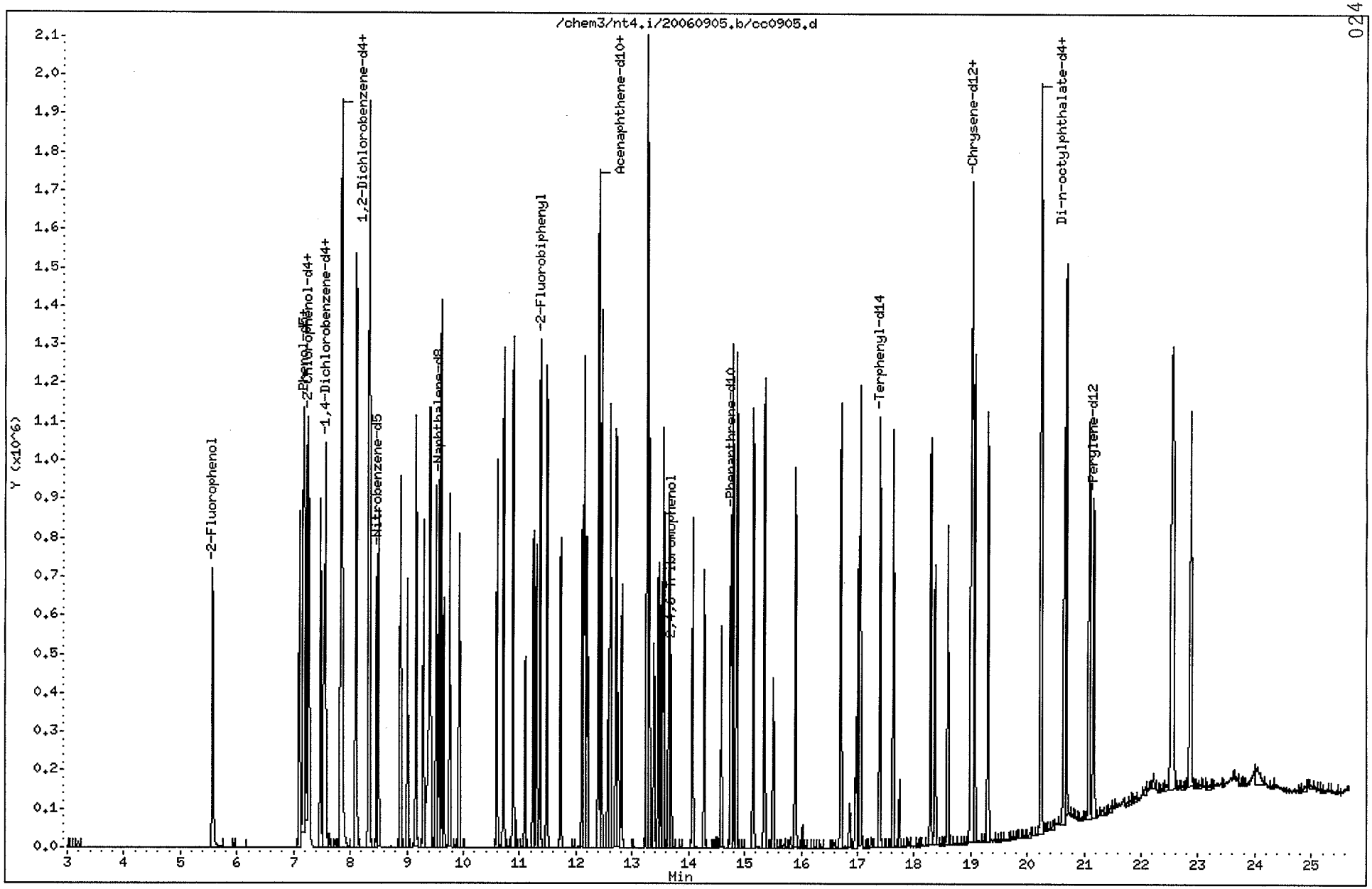
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20060905.b/cc0905.d
Date : 05-SEP-2006 14:42
Client ID:
Sample Info: ABN 25

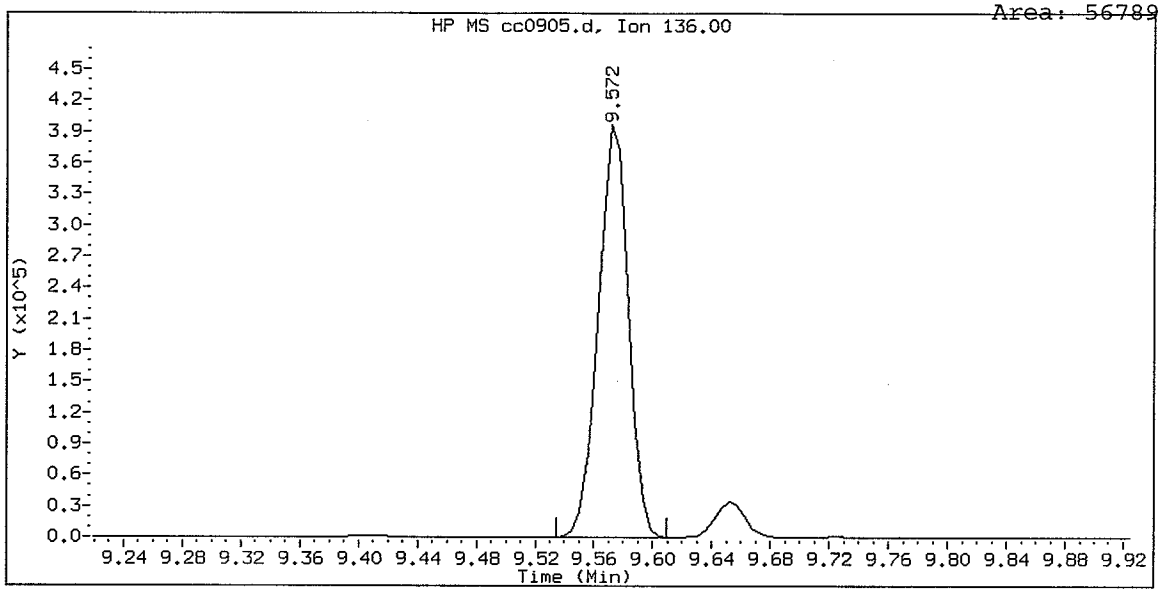
Instrument: nt4.i

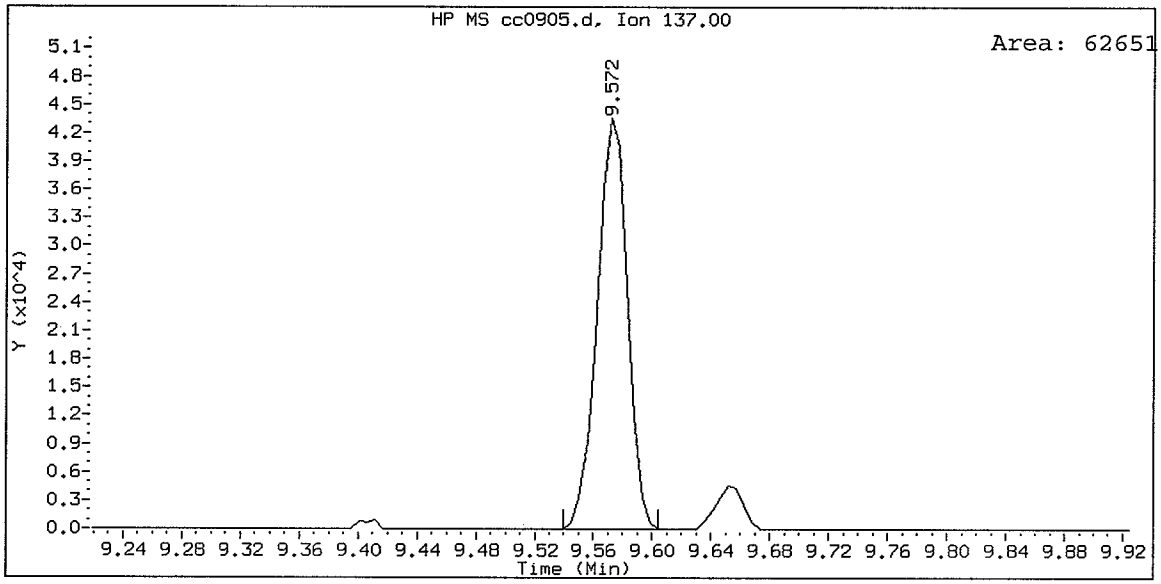
Operator: VTS
Column diameter: 0.32

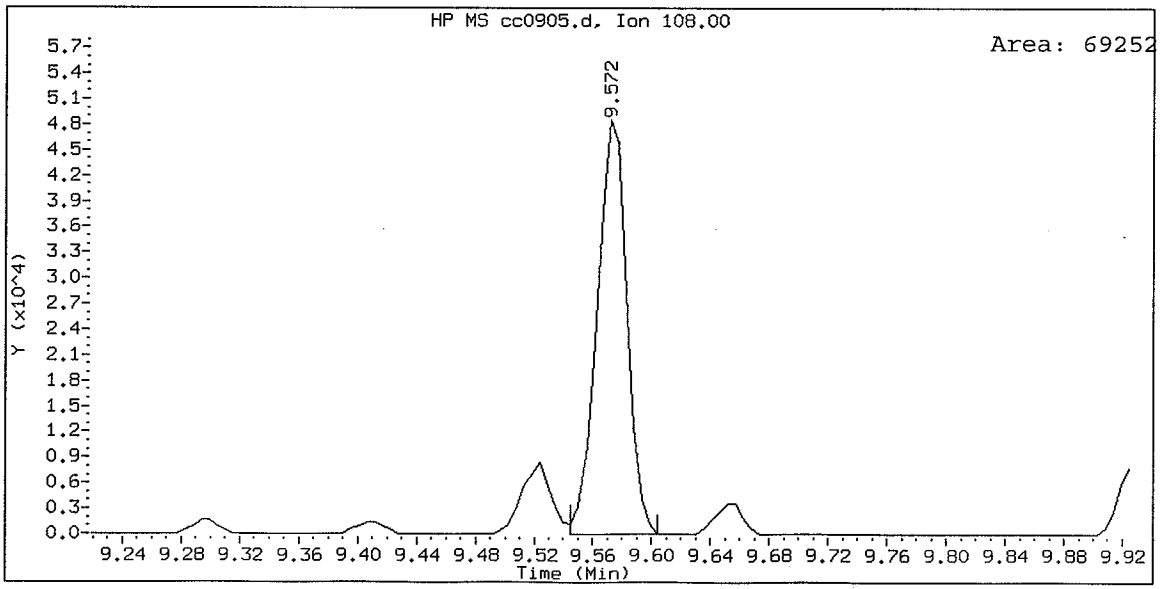
Column phase: ZB-5



ABN 25, /chem3/nt4.i/20060905.b/cc0905.d
Naphthalene-d8 Amount: 20.00







Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20060905.b/ddt.b/cc0905.d ARI ID:
Method: /chem3/nt4.i/20060905.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 05-SEP-2006 14:42 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	14.588	82297
Benzidine	16.976	171522
4,4'-DDE	----	----
4,4'-DDD	17.900	6666
4,4'-DDT	18.370	178777

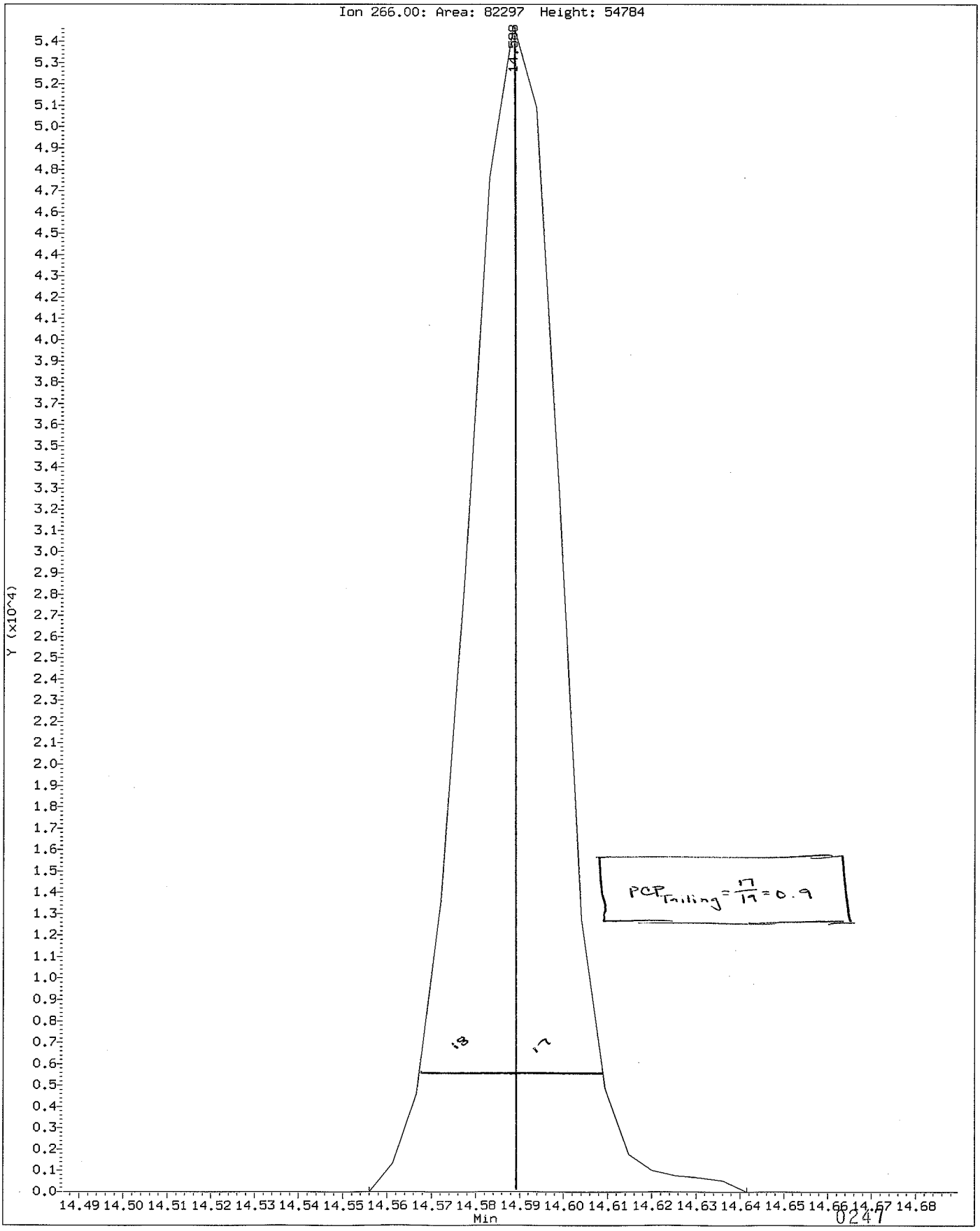
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 0 + 6666) * 100}{(\ 0 + 6666 + 178777)}$$

DDT Percent Breakdown = 3.6 %

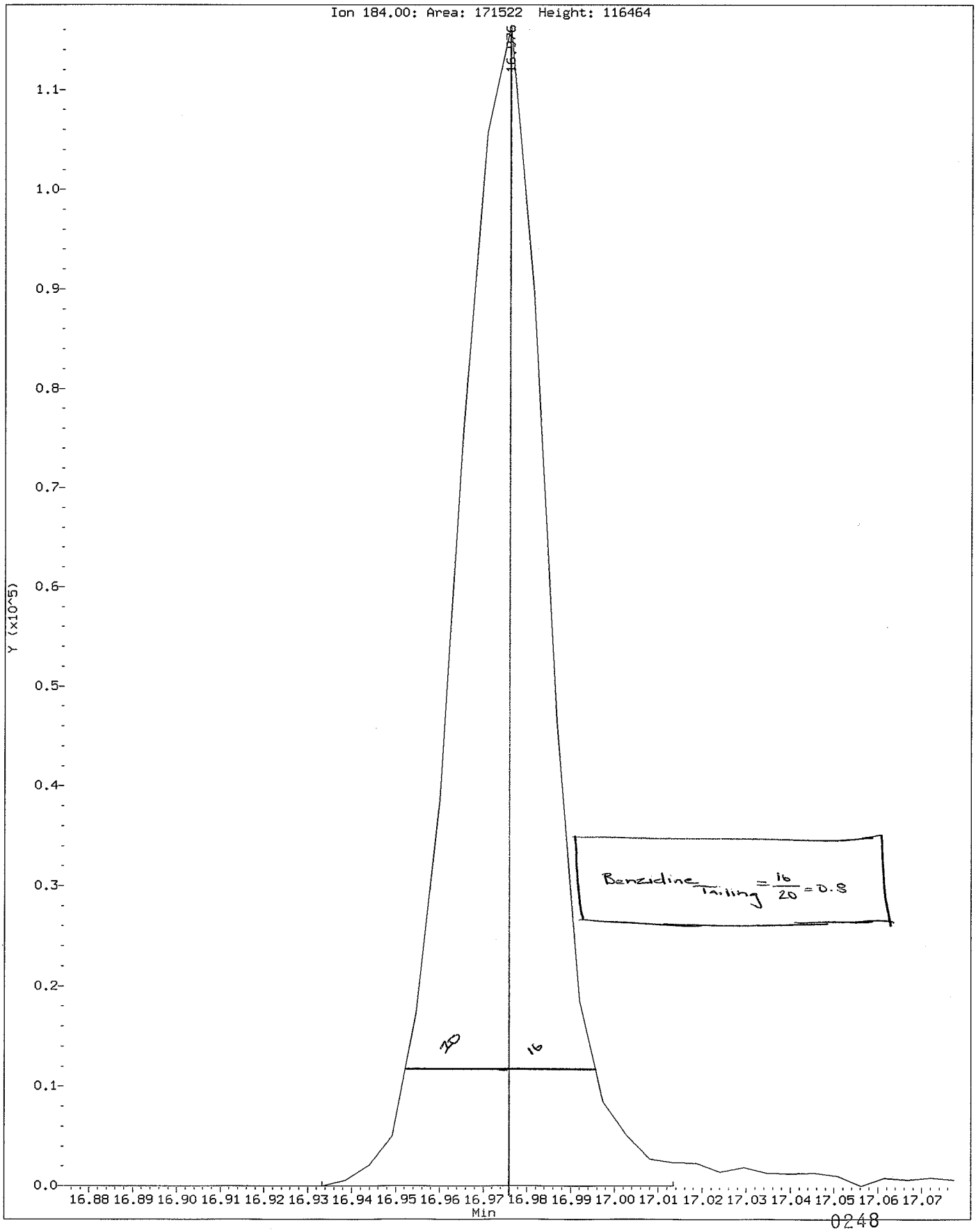
Data File: /chem3/nt4.i/20060905.b/ddt.b/cc0905.d
Injection Date: 05-SEP-2006 14:42
Instrument: nt4.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20060905.b/ddt.b/cc0905.d
Injection Date: 05-SEP-2006 14:42
Instrument: nt4.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Semivolatile Organics
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt4.i/20060815.b/tune.b/0250815.d

Date : 15-AUG-2006 08:55

Client ID: DFTPP 0815

Instrument: nt4.i

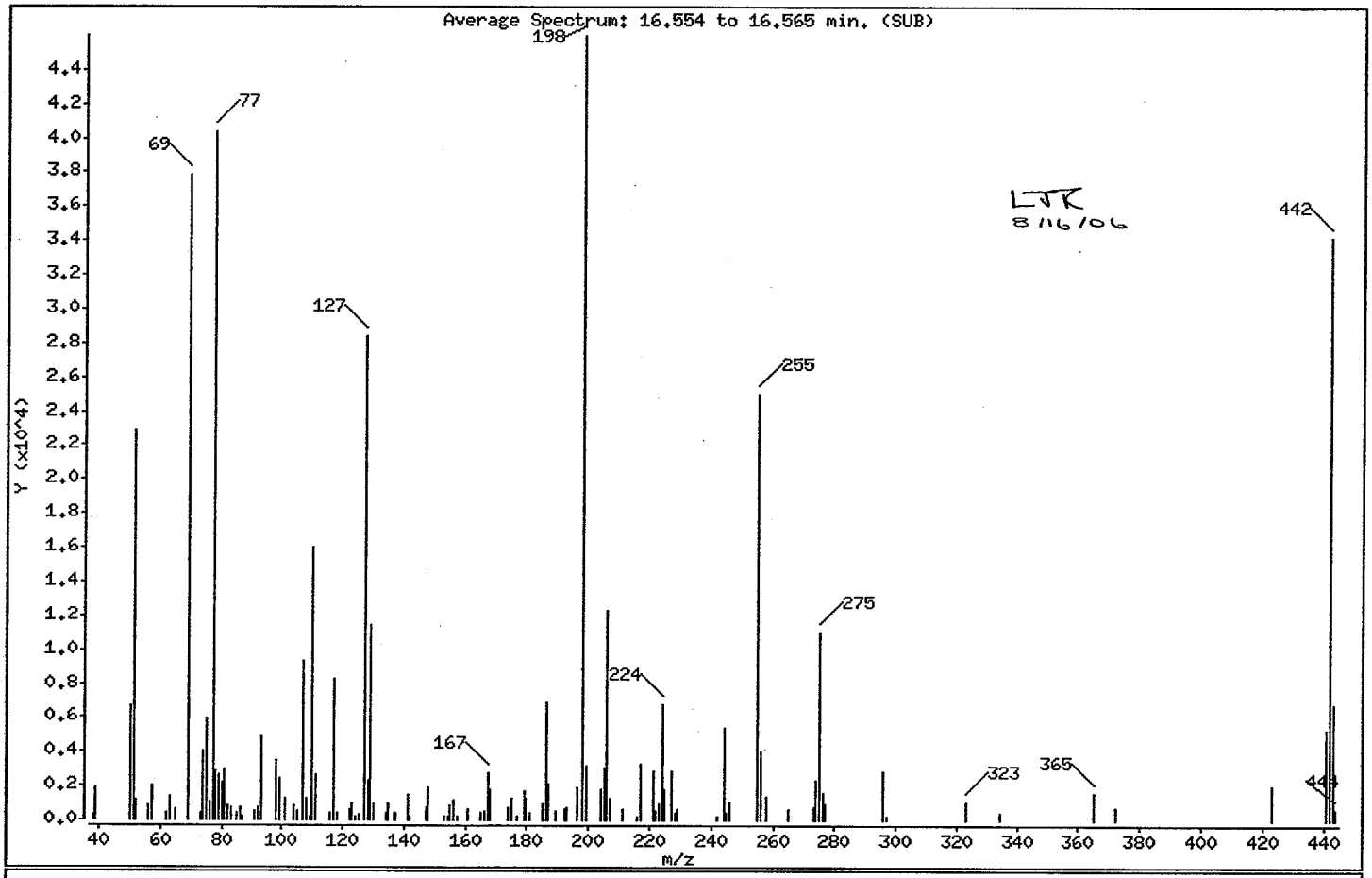
Sample Info: ABN 25

Operator: pk

Column phase: ZB-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	49.80
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	82.17
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	61.70
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	23.92
365	Greater than 0.75% of mass 198	3.36
441	Present, but less than mass 443	11.60
442	40.00 - 110.00% of mass 198	74.49
443	15.00 - 24.00% of mass 442	14.69 (19.72)

Data File: /chem3/nt4.i/20060815.b/tune.b/0250815.d

Date : 15-AUG-2006 08:55

Client ID: DFTPP 0815

Instrument: nt4.i

Sample Info: ABN 25

Operator: pk

Column phase: ZB-5

Column diameter: 0.32

Data File: 0250815.d

Spectrum: Average Spectrum: 16.554 to 16.565 min. (SUB)

Location of Maximum: 198.00

Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	347	104.00	897	165.00	432	227.00	2911
39.00	1932	105.00	558	166.00	489	228.00	373
50.00	6688	107.00	9336	167.00	2800	229.00	611
51.00	22904	108.00	1277	168.00	1764	242.00	186
52.00	1196	109.00	178	174.00	689	244.00	5454
56.00	800	110.00	16037	175.00	1236	245.00	444
57.00	1964	111.00	2624	177.00	178	246.00	1105
62.00	460	116.00	414	179.00	1740	255.00	25024
63.00	1351	117.00	8316	180.00	1225	256.00	4051
65.00	687	118.00	475	181.00	425	258.00	1411
69.00	37792	122.00	591	185.00	979	265.00	589
73.00	413	123.00	943	186.00	6862	273.00	758
74.00	4077	124.00	212	187.00	2081	274.00	2300
75.00	5941	125.00	347	189.00	532	275.00	11002
76.00	1007	127.00	28376	192.00	590	276.00	1620
77.00	40384	128.00	2352	193.00	693	277.00	906
78.00	2827	129.00	11433	196.00	1939	296.00	2828
79.00	2668	130.00	936	198.00	45992	297.00	183
80.00	2278	134.00	380	199.00	3186	323.00	1057
81.00	2916	135.00	938	204.00	1802	334.00	460
82.00	813	137.00	386	205.00	3100	365.00	1546
83.00	690	141.00	1514	206.00	12243	372.00	696
85.00	373	142.00	179	207.00	1230	423.00	1971
86.00	757	147.00	749	211.00	628	441.00	5336
87.00	170	148.00	1884	216.00	185	442.00	34256
91.00	549	153.00	178	217.00	3338	443.00	6755
92.00	766	154.00	169	221.00	2875	444.00	658
93.00	4845	155.00	866	222.00	499		
98.00	3448	156.00	1117	223.00	905		
99.00	2401	157.00	179	224.00	6808		
101.00	1234	161.00	601	225.00	1775		

Data File: /chem3/nt4.i/20060815.b/tune.b/0250815.d

Date : 15-AUG-2006 08:55

Client ID: DFTPP 0815

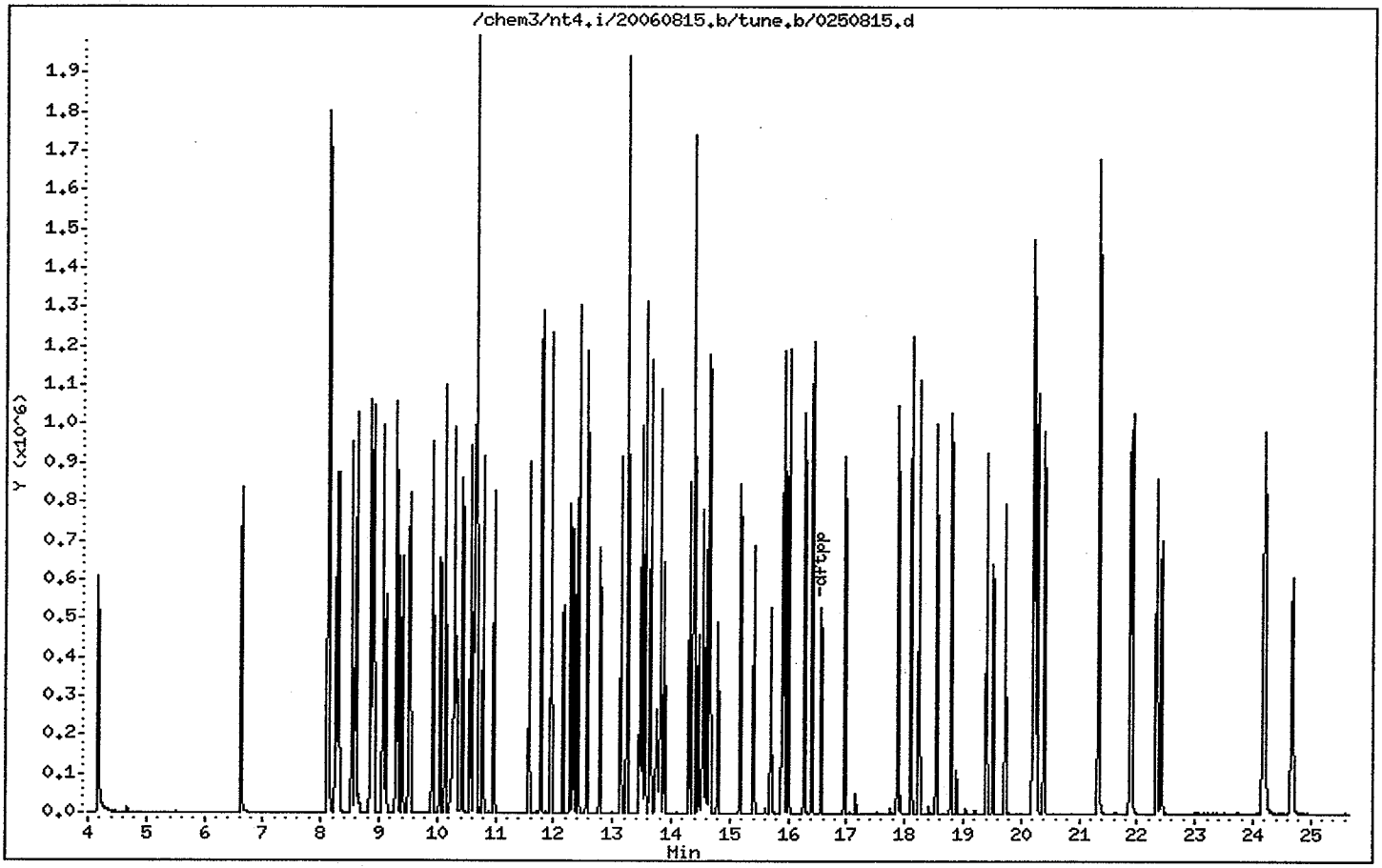
Instrument: nt4.i

Sample Info: ABN 25

Operator: pk

Column phase: ZB-5

Column diameter: 0.32



Data File: /chem3/nt4.i/20060905.b/tune.b/cc0905.d

Date : 05-SEP-2006 14:42

Client ID:

Sample Info: ABN 25

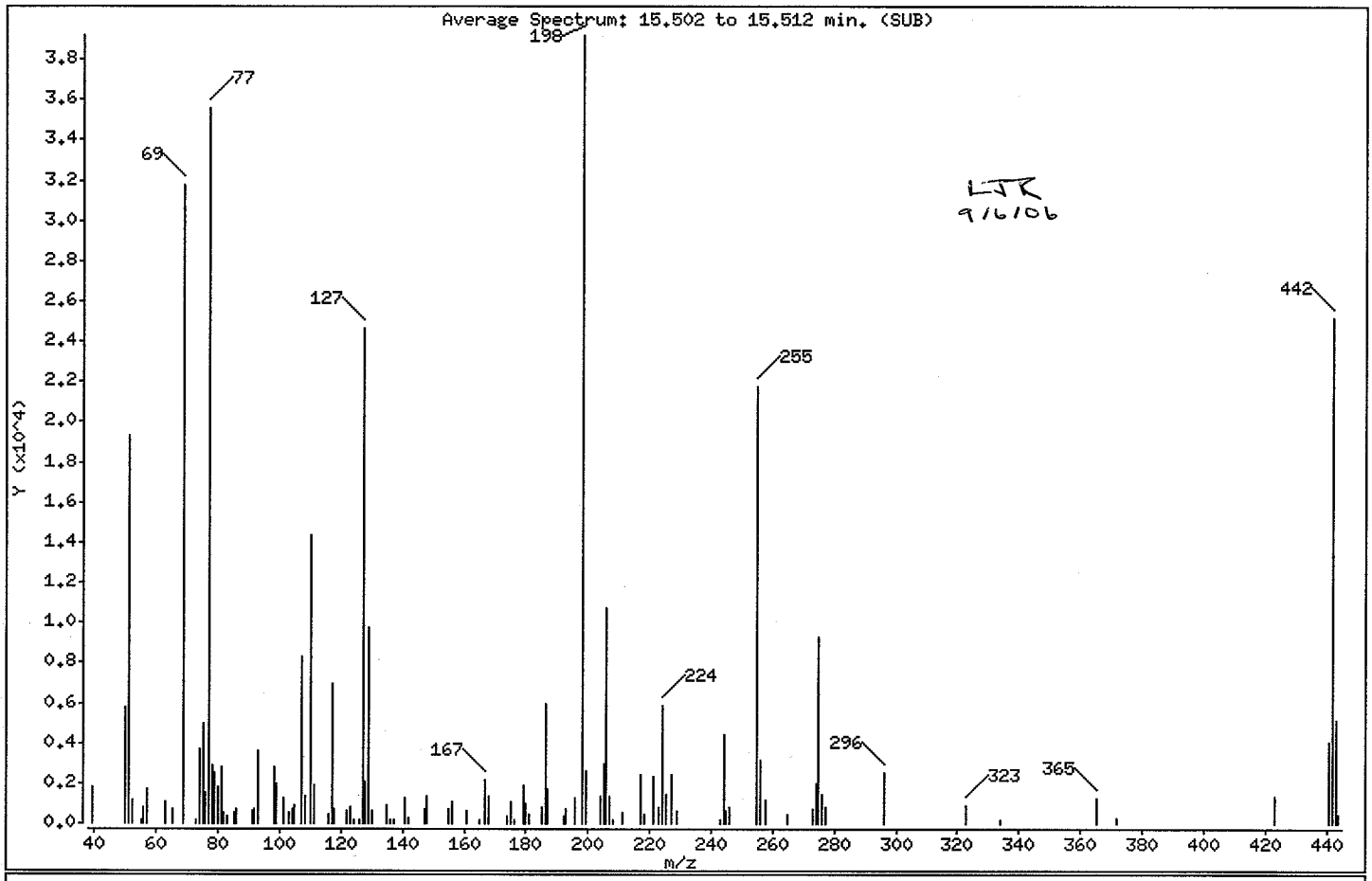
Instrument: nt4.i

Operator: pk

Column phase: ZB-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	49.25
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	81.04
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	62.81
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 30.00% of mass 198	23.64
365	Greater than 0.75% of mass 198	3.24
441	Present, but less than mass 443	10.35
442	40.00 - 110.00% of mass 198	64.28
443	15.00 - 24.00% of mass 442	13.05 (20.30)

Data File: /chem3/nt4.i/20060905.b/tune.b/cc0905.d

Date : 05-SEP-2006 14:42

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: pk

Column phase: ZB-5

Column diameter: 0.32

Data File: cc0905.d
Spectrum: Average Spectrum: 15.502 to 15.512 min. (SUB)
Location of Maximum: 198.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1830	101.00	1227	161.00	603	224.00	5904
50.00	5735	103.00	562	165.00	180	225.00	1466
51.00	19296	104.00	742	167.00	2125	227.00	2399
52.00	1157	105.00	901	168.00	1311	229.00	653
55.00	177	107.00	8316	174.00	400	243.00	166
56.00	772	108.00	1394	175.00	1048	244.00	4431
57.00	1685	110.00	14350	176.00	191	245.00	634
63.00	1107	111.00	1930	179.00	1884	246.00	810
65.00	720	116.00	414	180.00	1030	255.00	21800
69.00	31752	117.00	6983	181.00	477	256.00	3171
73.00	169	118.00	740	185.00	815	258.00	1208
74.00	3732	122.00	662	186.00	5991	265.00	481
75.00	4927	123.00	799	187.00	1706	273.00	748
76.00	1515	124.00	172	192.00	348	274.00	1952
77.00	35568	126.00	182	193.00	764	275.00	9264
78.00	2861	127.00	24608	196.00	1296	276.00	1446
79.00	2516	128.00	2068	198.00	39184	277.00	822
80.00	1842	129.00	9774	199.00	2594	296.00	2570
81.00	2792	130.00	670	204.00	1370	323.00	923
82.00	511	135.00	899	205.00	3000	334.00	172
83.00	397	136.00	173	206.00	10710	365.00	1271
85.00	567	137.00	195	207.00	1335	372.00	262
86.00	682	141.00	1278	208.00	185	423.00	1370
91.00	639	142.00	239	211.00	544	441.00	4054
92.00	695	147.00	749	217.00	2432	442.00	25184
93.00	3644	148.00	1399	218.00	419	443.00	5112
98.00	2810	155.00	685	221.00	2354	444.00	488
99.00	1962	156.00	1041	223.00	846		

Data File: /chem3/nt4.i/20060905.b/tune.b/cc0905.d

Date : 05-SEP-2006 14:42

Client ID:

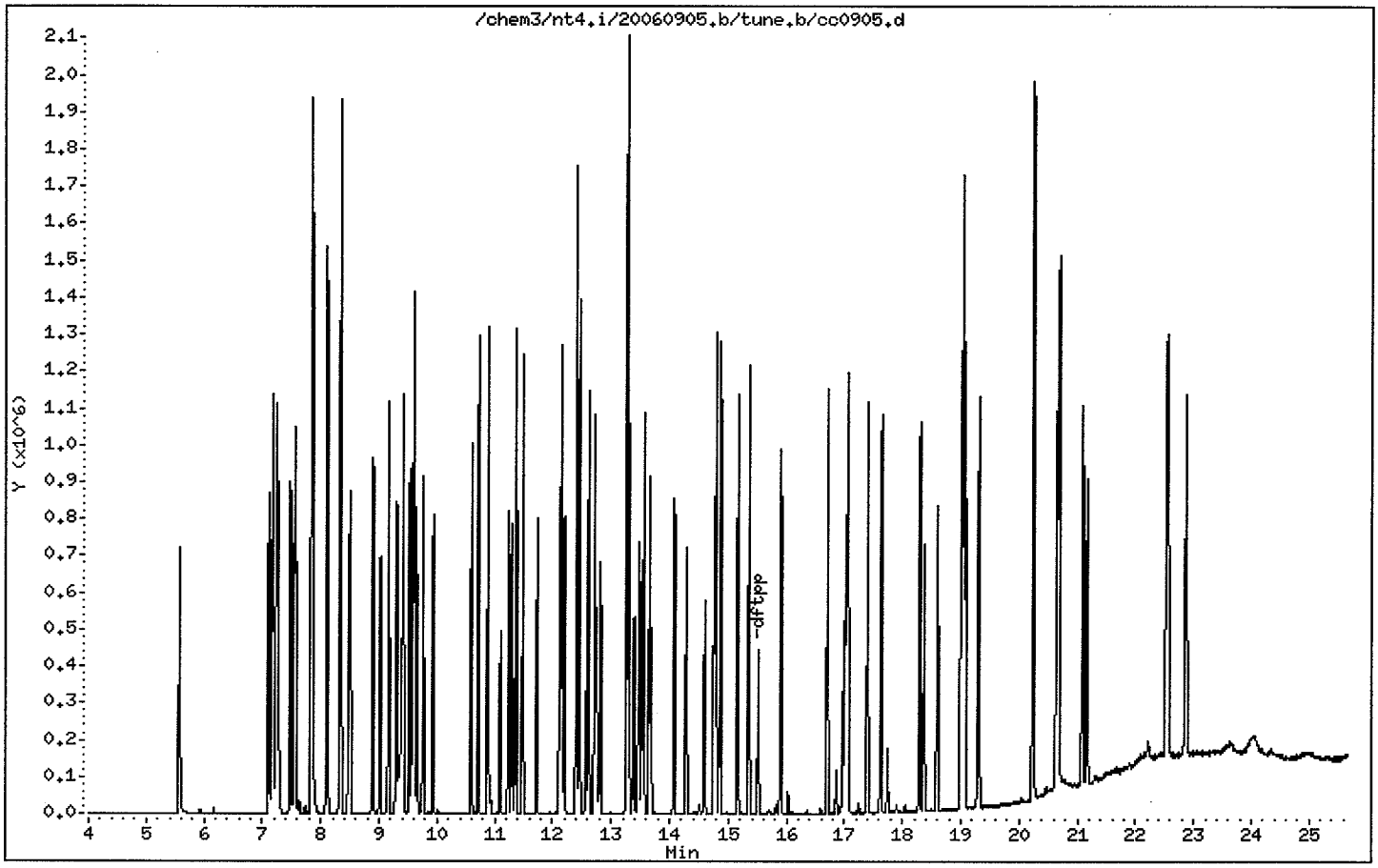
Instrument: nt4.i

Sample Info: ABN 25

Operator: pk

Column phase: ZB-5

Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: MB-090406**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-090406
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 15:24
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	**Di-n-Butylphthalate**	**20**	**13 J**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**17 J**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	84.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82mb.d
Lab Smp Id: JT82MBS1 Client Smp ID: JT82MBS1
Inj Date : 05-SEP-2006 15:24
Operator : VTS Inst ID: nt4.i
Smp Info : JT82MBS1
Misc Info : 06-15219
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:48 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	5.613	5.571	(0.745)	322346	26.8540	537.3
$	2 Phenol-d5	99	7.157	7.162	(0.950)	360639	24.8809	497.6
	3 Phenol	94	7.178	7.184	(0.952)	17027	0.97383 (J)	19.48
$	5 2-Chlorophenol-d4	132	7.242	7.248	(0.961)	266951	22.8617	457.2
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	7.536	7.536	(1.000)	150422	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	7.830	7.836	(1.039)	96016	13.6235	272.5
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.466	8.471	(0.885)	250841	15.2262	304.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.299	9.438	(0.972)	21204	2.77957 LPL	55.59
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.566	9.572	(1.000)	571451	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.361	11.367	(0.916)	298689	14.4007	288.0
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.403	12.403	(1.000)	303787	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.685	13.691	(1.103)	62756	24.8647	497.3
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.748	14.754	(1.000)	446897	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63	Di-n-butylphthalate	149	15.897	15.902	(1.078)	19351	0.66409 J	13.28
64	Fluoranthene	202	Compound Not Detected.					
65	Pyrene	202	Compound Not Detected.					
$ 66	Terphenyl-d14	244	17.392	17.393	(0.914)	383333	20.9702	419.4
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	Compound Not Detected.					
* 69	Chrysene-d12	240	19.022	19.033	(1.000)	345862	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	Compound Not Detected.					
72	bis(2-Ethylhexyl)phthalate	149	19.300	19.305	(0.954)	14759	0.84456 J	16.89
* 134	Di-n-octylphthalate-d4	153	20.234	20.235	(1.000)	746007	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	Compound Not Detected.					
75	Benzo(k)fluoranthene	252	Compound Not Detected.					
76	Benzo(a)pyrene	252	Compound Not Detected.					
* 77	Perylene-d12	264	21.159	21.164	(1.000)	352332	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82mb.d
Lab Smp Id: JT82MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: JT82MBS1
Level: LOW
Sample Type: Solid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	150422	1.31
27 Naphthalene-d8	567893	283946	1135786	571451	0.63
42 Acenaphthene-d10	303756	151878	607512	303787	0.01
59 Phenanthrene-d10	446635	223318	893270	446897	0.06
69 Chrysene-d12	372366	186183	744732	345862	-7.12
134 Di-n-octylphthala	790006	395003	1580012	746007	-5.57
77 Perylene-d12	411060	205530	822120	352332	-14.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.00
27 Naphthalene-d8	9.57	9.07	10.07	9.57	-0.06
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.00
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	-0.04
69 Chrysene-d12	19.03	18.53	19.53	19.02	-0.06
134 Di-n-octylphthala	20.23	19.73	20.73	20.23	0.00
77 Perylene-d12	21.16	20.66	21.66	21.16	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

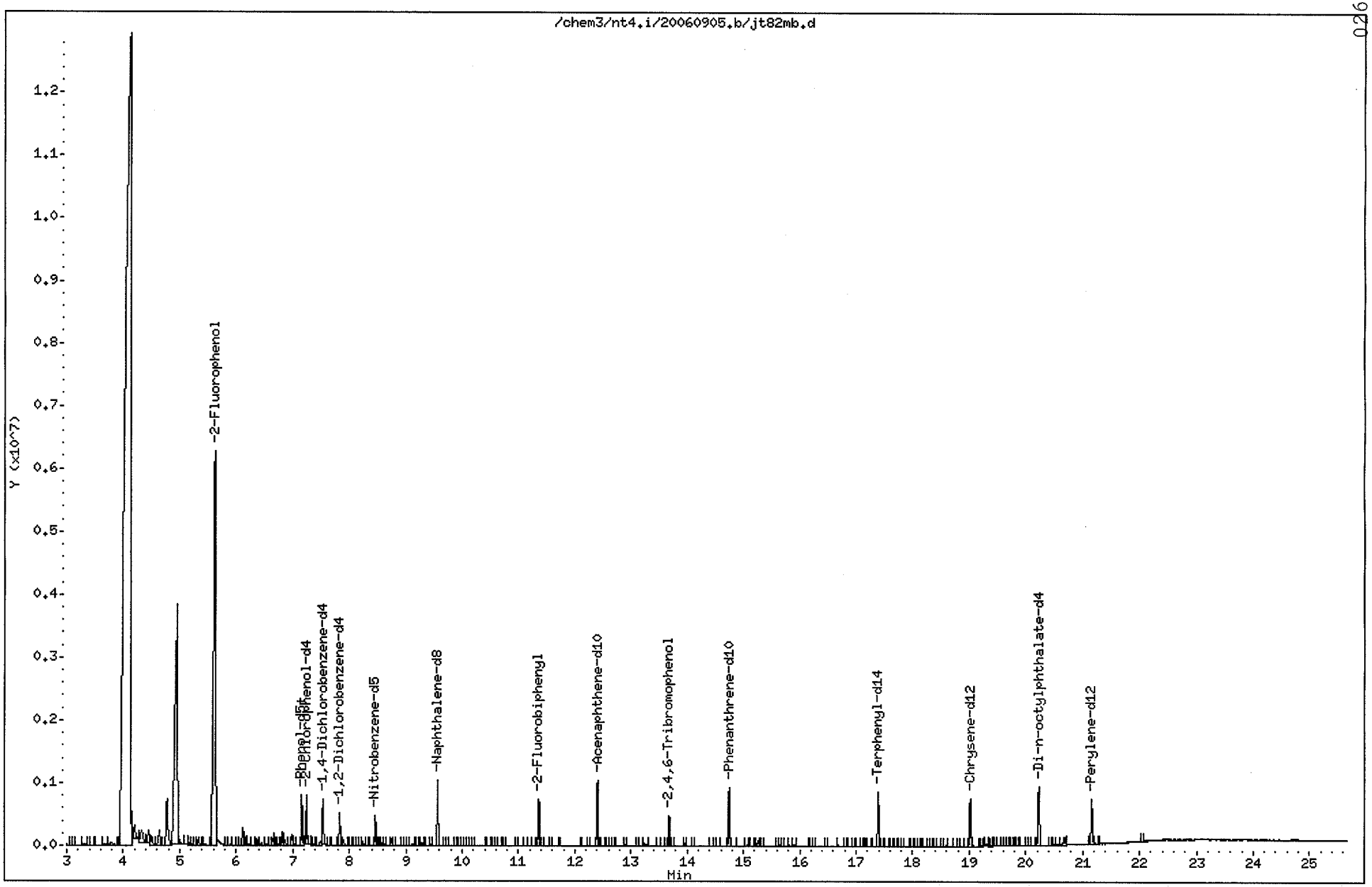
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Client SDG: JT82
Fraction: SV
Client Smp ID: JT82MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	537.3	71.64	42-87
$ 2 Phenol-d5	750.0	497.6	66.35	47-87
$ 5 2-Chlorophenol-d4	750.0	457.2	60.96	47-86
$ 10 1,2-Dichlorobenzen	500.0	272.5	54.49	43-82
$ 18 Nitrobenzene-d5	500.0	304.5	60.90	46-87
$ 36 2-Fluorobiphenyl	500.0	288.0	57.60	46-88
$ 55 2,4,6-Tribromophen	750.0	497.3	66.31	40-97
$ 66 Terphenyl-d14	500.0	419.4	83.88	37-114

Data File: /chem3/nt4.i/20060905.b/jt82mb.d
Date : 05-SEP-2006 15:24
Client ID: JT82MBS1
Sample Info: JT82MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



Data File: /chem3/nt4.i/20060905.b/jt82mb.d

Date : 05-SEP-2006 15:24

Client ID: JT82MBS1

Instrument: nt4.i

Sample Info: JT82MBS1

Volume Injected (uL): 1.0

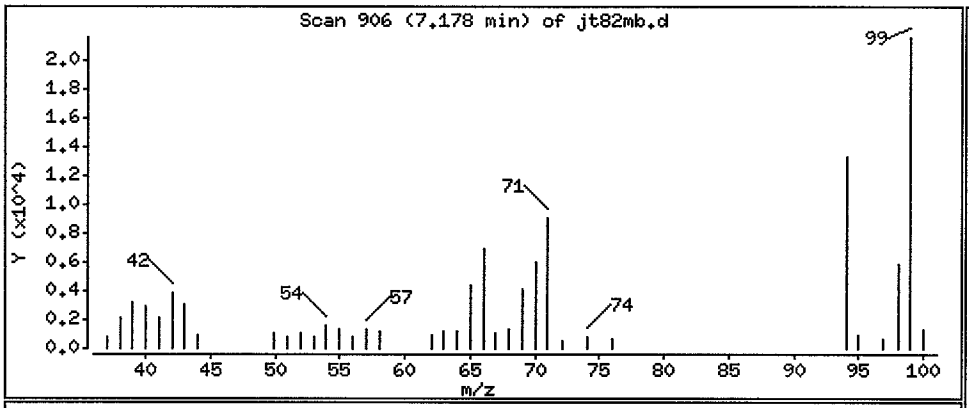
Operator: VTS

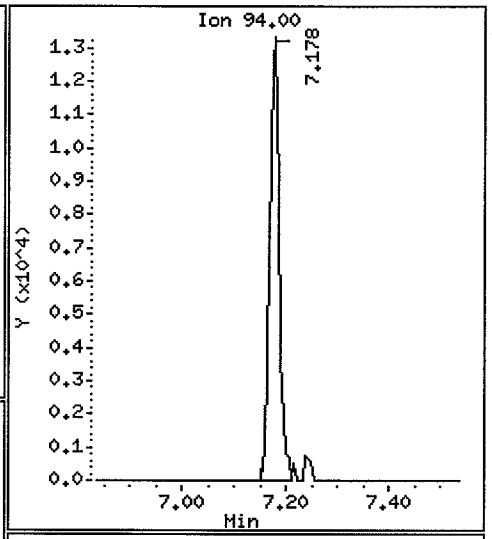
Column phase: ZB-5

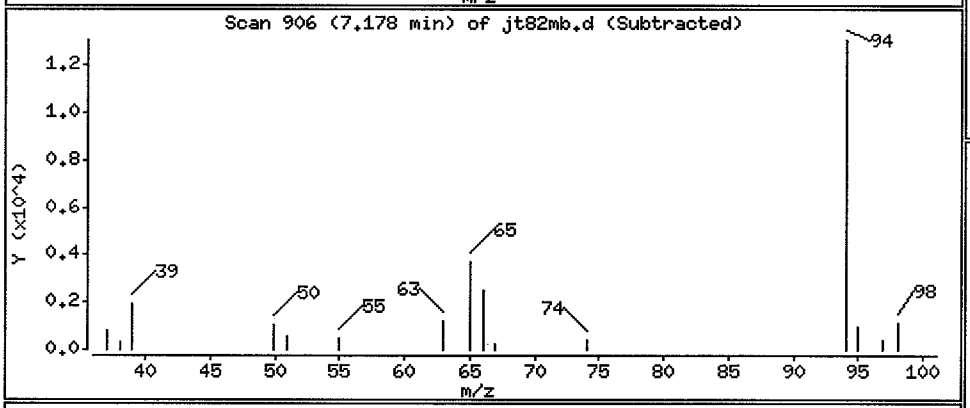
Column diameter: 0.32

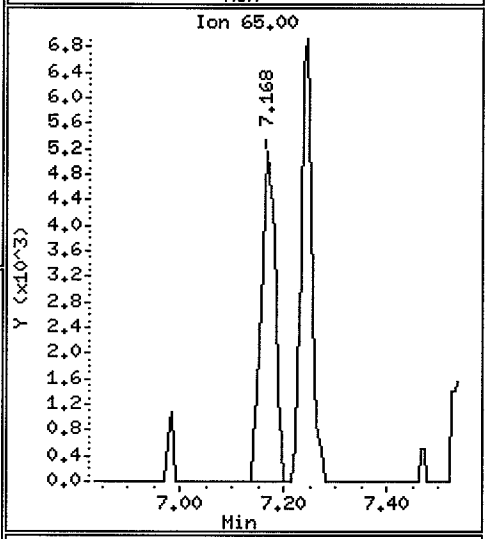
3 Phenol

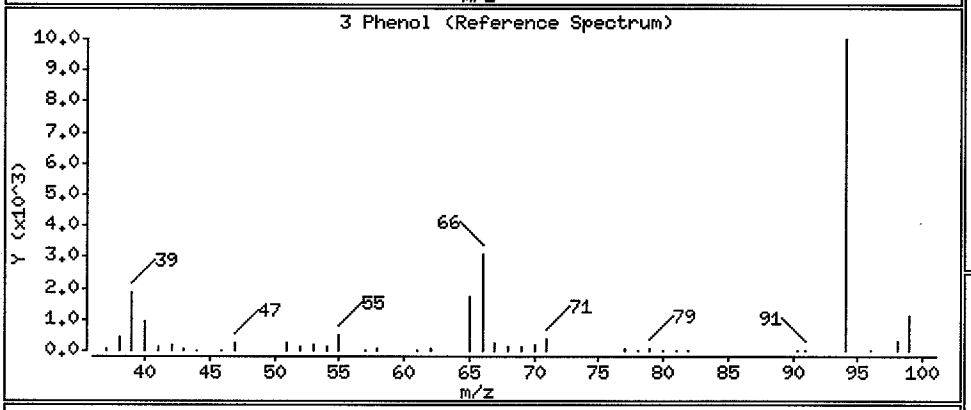
Concentration: 19.48 ug/kg

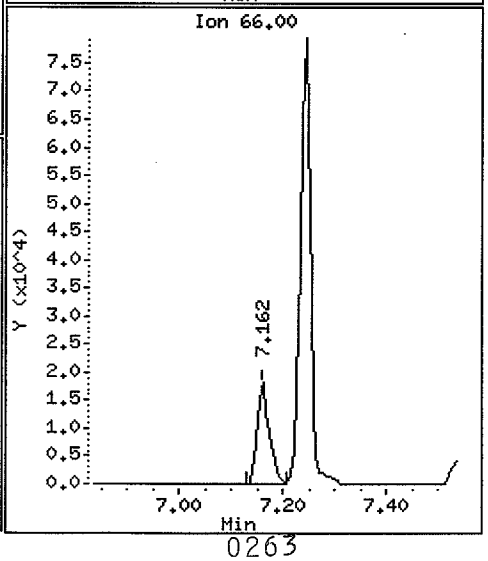


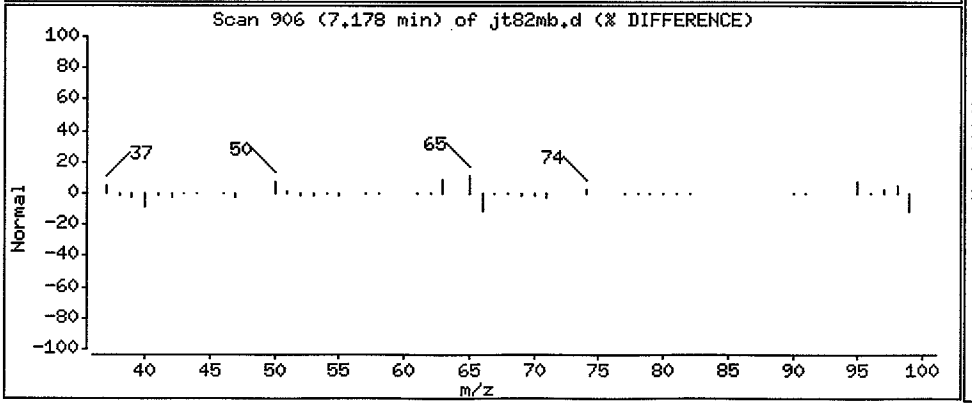












Data File: /chem3/nt4.i/20060905.b/jt82mb.d

Date : 05-SEP-2006 15:24

Client ID: JT82MBS1

Instrument: nt4.i

Sample Info: JT82MBS1

Volume Injected (uL): 1.0

Operator: VTS

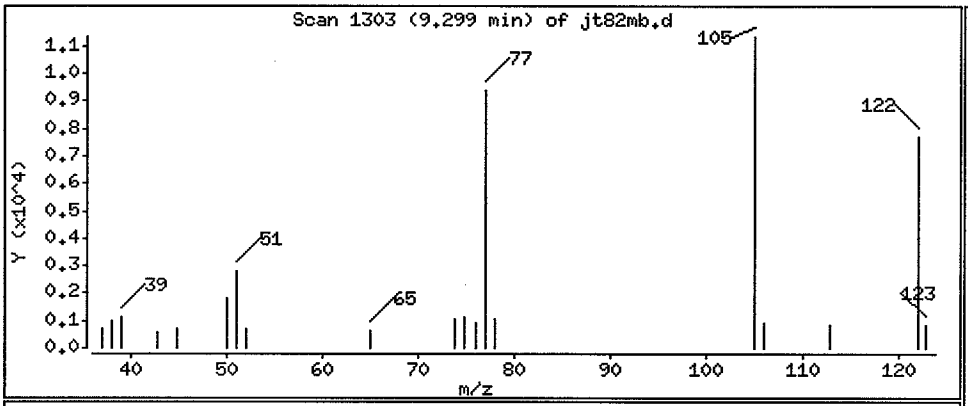
Column phase: ZB-5

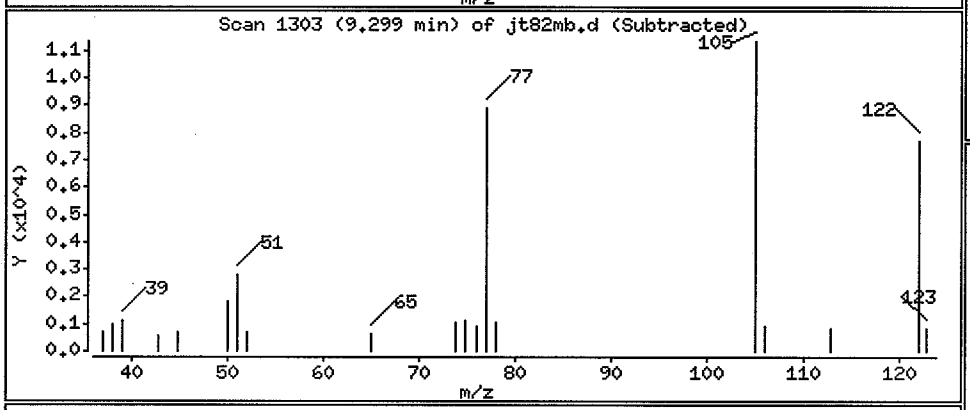
Column diameter: 0.32

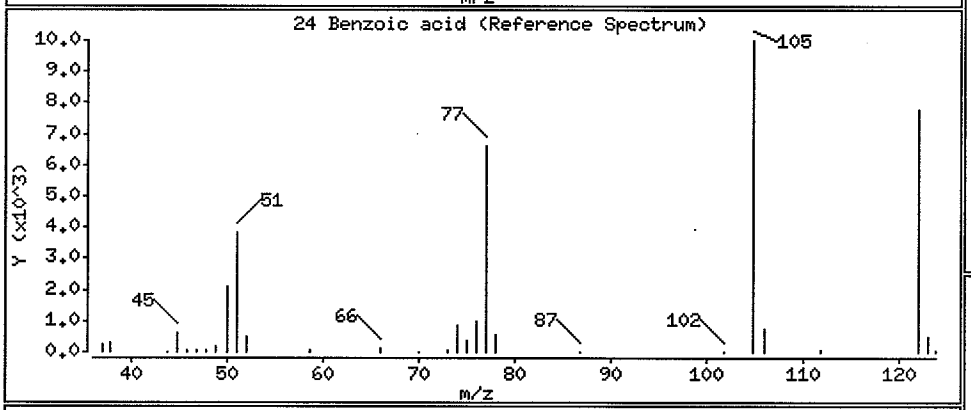
24 Benzoic acid

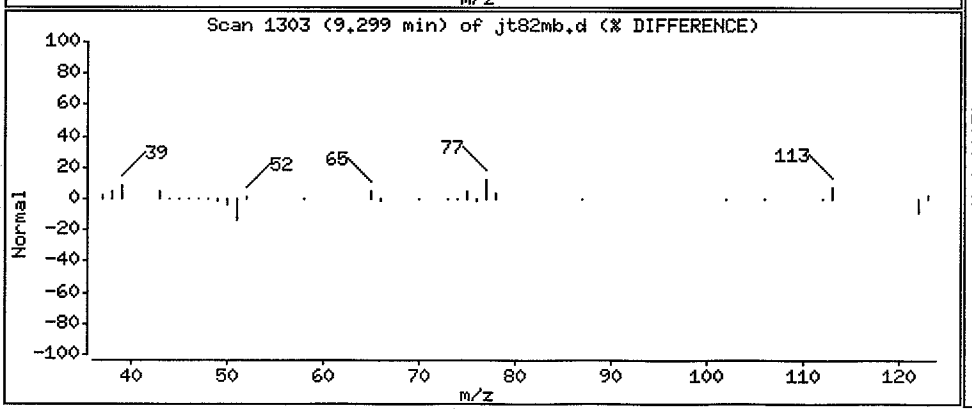
Concentration: 55.59 ug/kg

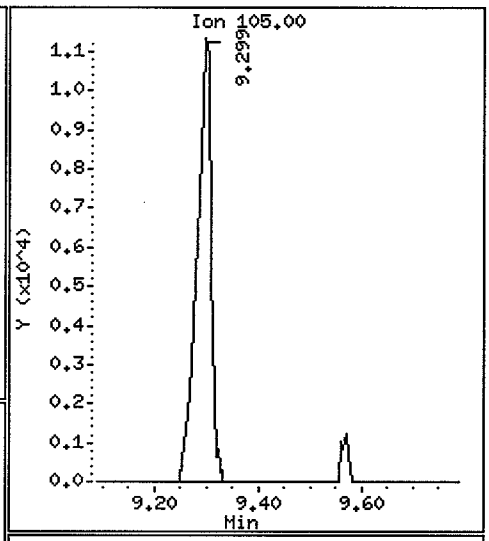
LMPL

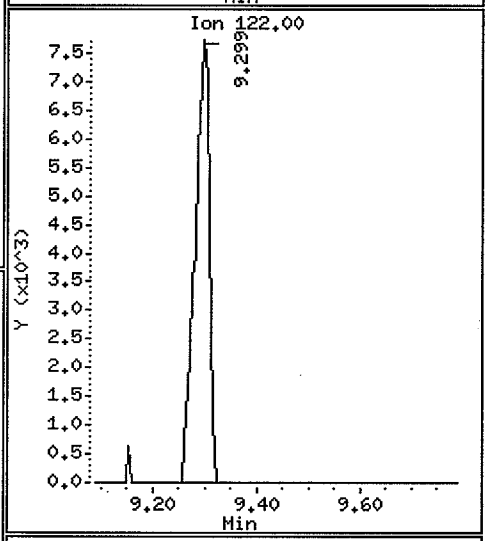


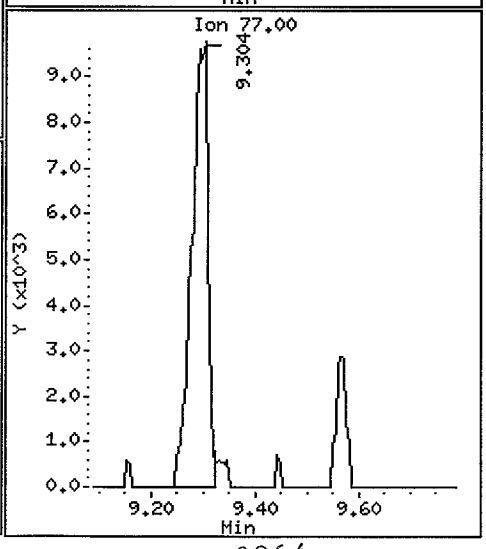












Data File: /chem3/nt4.i/20060905.b/jt82mb.d

Date : 05-SEP-2006 15:24

Client ID: JT82MBS1

Instrument: nt4.i

Sample Info: JT82MBS1

Volume Injected (uL): 1.0

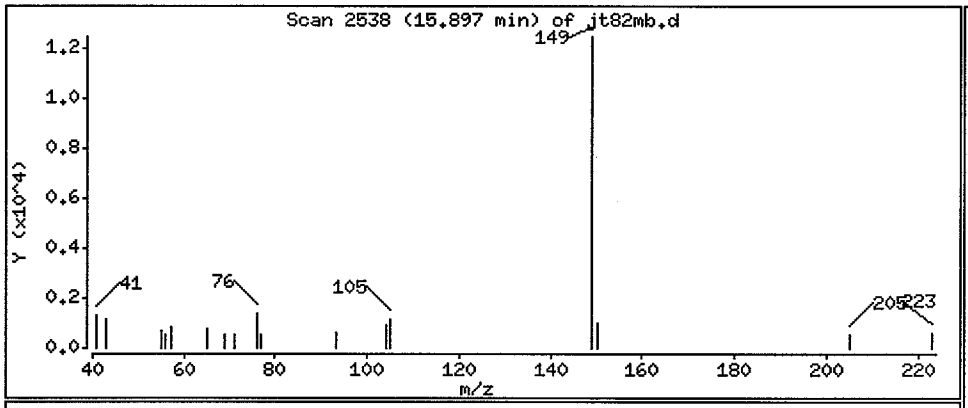
Operator: VTS

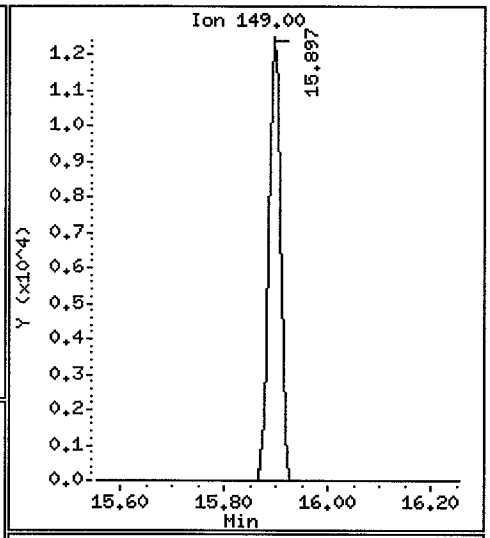
Column phase: ZB-5

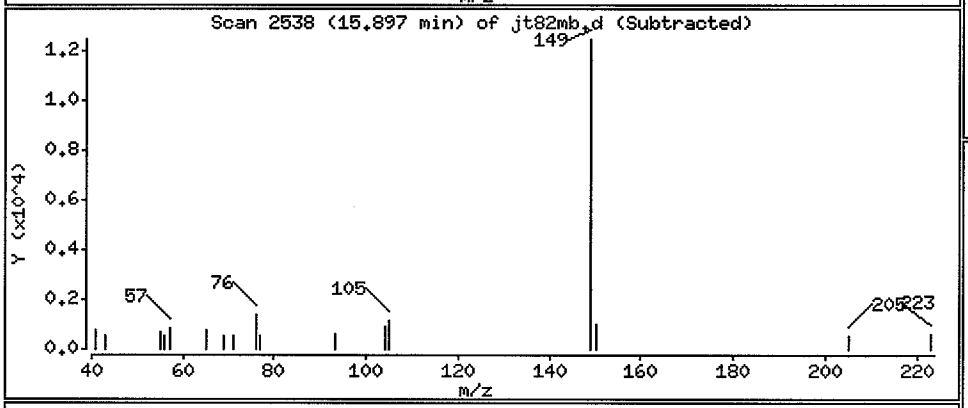
Column diameter: 0.32

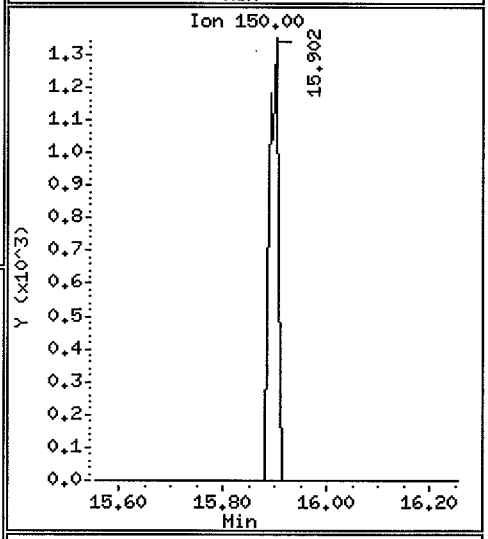
63 Di-n-butylphthalate

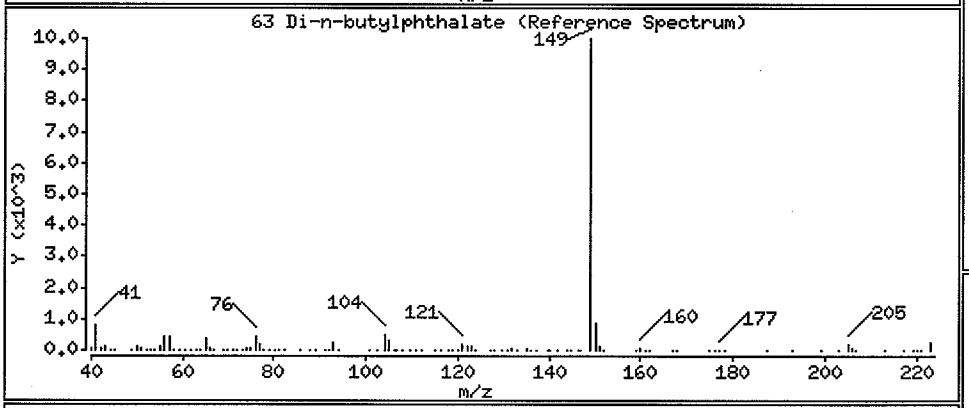
Concentration: 13.28 ug/kg

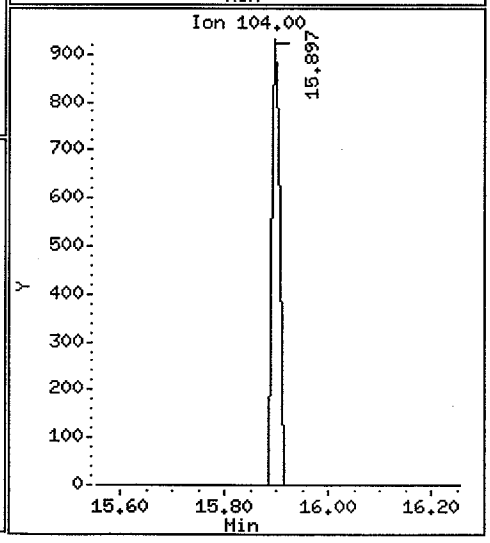


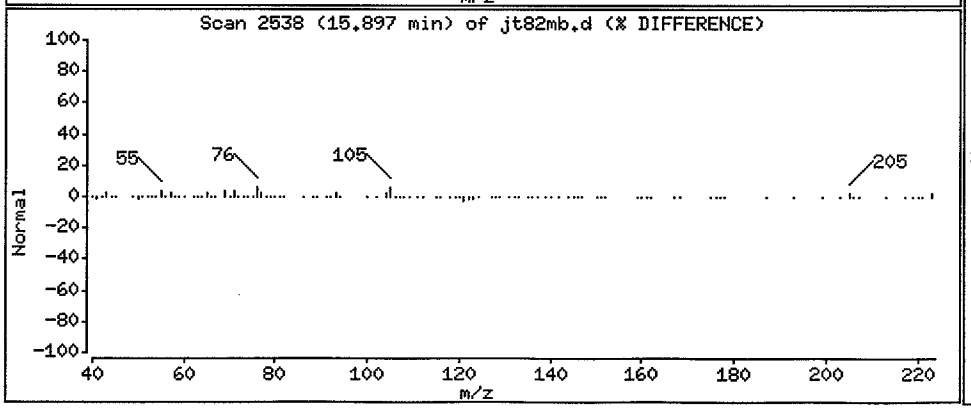












Data File: /chem3/nt4.i/20060905.b/jt82mb.d

Date : 05-SEP-2006 15:24

Client ID: JT82MBS1

Instrument: nt4.i

Sample Info: JT82MBS1

Volume Injected (uL): 1.0

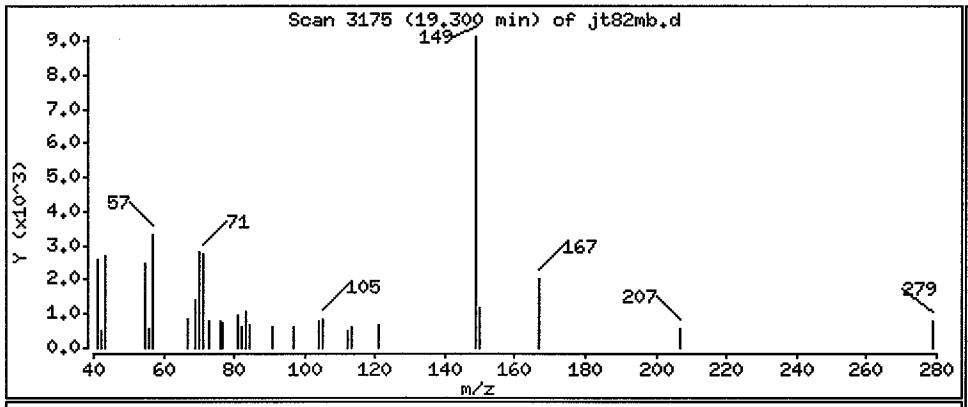
Operator: VTS

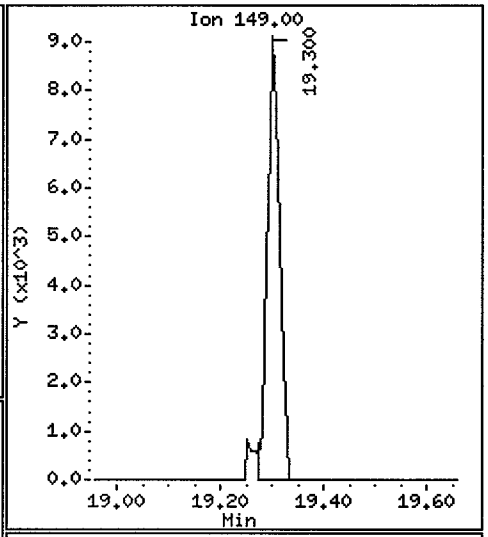
Column phase: ZB-5

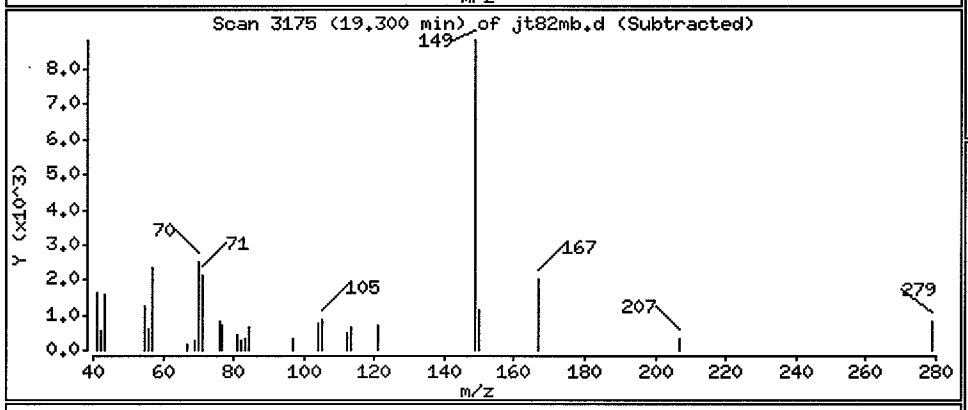
Column diameter: 0.32

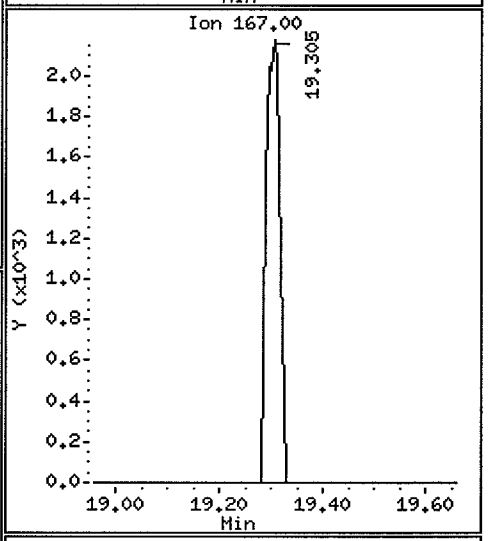
72 bis(2-Ethylhexyl)phthalate

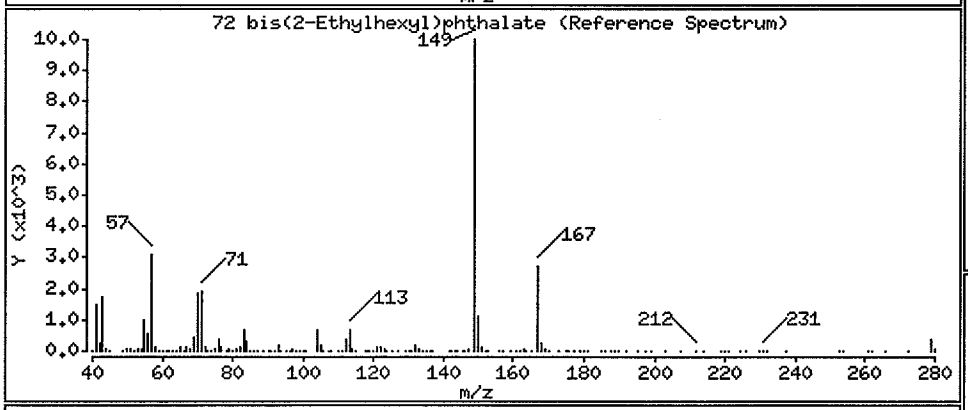
Concentration: 16.89 ug/kg

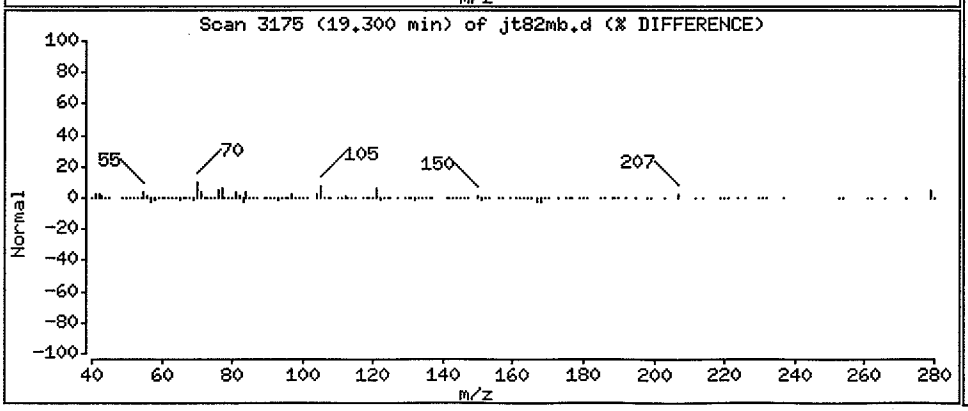


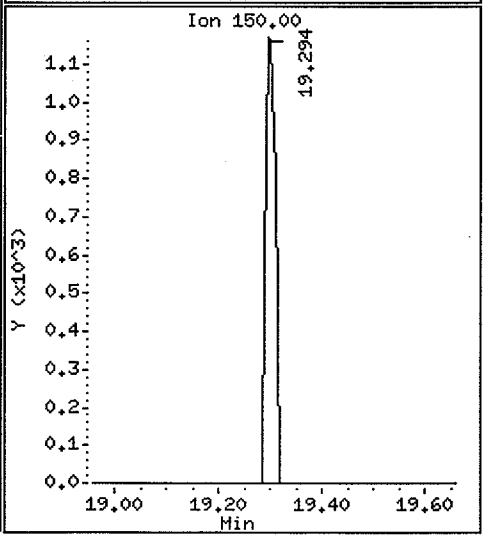












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-K-DUP**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 23:05
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	55.2%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82ems.d
Lab Smp Id: JT82EMS Client Smp ID: T4-S3-02-K-DUP MS
Inj Date : 05-SEP-2006 23:05
Operator : VTS Inst ID: nt4.i
Smp Info : JT82EMS
Misc Info : 06-15219
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:47 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	65.90000	Weight of sample extracted (g)
M	22.10000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	5.618	5.571	(0.746)	263080	21.7703	424.1
$	2 Phenol-d5	99	7.156	7.162	(0.950)	288466	19.7613	384.9
	3 Phenol	94	7.178	7.184	(0.952)	564440	32.0547	624.4
$	5 2-Chlorophenol-d4	132	7.242	7.248	(0.961)	213789	18.1799	354.1
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	7.263	7.269	(0.964)	205649	19.3184	376.3
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	7.536	7.536	(1.000)	151490	20.0000	
	9 1,4-Dichlorobenzene	146	7.557	7.563	(1.003)	130590	11.2262	218.7
$	10 1,2-Dichlorobenzene-d4	152	7.830	7.836	(1.039)	77959	10.9835	214.0
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	8.310	8.322	(1.103)	139562	13.4717	262.4
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.460	8.471	(0.884)	204293	12.0937	235.6
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.331	9.438	(0.975)	74598	9.53677 LDL	185.8
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	9.518	9.524	(0.995)	104061	11.8068	230.0
*	27 Naphthalene-d8	136	9.566	9.572	(1.000)	585956	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	10.591	10.597	(1.107)	223570	21.6917	422.5
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.361	11.367	(0.916)	261359	12.5179	243.8
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.397	12.403	(1.000)	305800	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	12.445	12.457	(1.004)	244512	13.7571	268.0
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	12.734	12.750	(1.027)	76860	23.8399	464.4
	48 2,4-Dinitrotoluene	165	12.808	12.820	(1.033)	85622	15.0610	293.4
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.679	13.691	(1.103)	54415	21.4180	417.2
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	14.577	14.588	(0.988)	74472	23.2187	452.3
*	59 Phenanthrene-d10	188	14.748	14.754	(1.000)	446581	20.0000	
	60 Phenanthrene	178	14.780	14.786	(1.002)	38183	1.46316	28.50
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63	Di-n-butylphthalate	149	Compound Not Detected.					
64	Fluoranthene	202	16.692	16.704	(1.132)	47723	1.85995	36.23
65	Pyrene	202	17.045	17.051	(0.896)	471060	16.6950	325.2
$ 66	Terphenyl-d14	244	17.387	17.393	(0.914)	271534	13.7916	268.7
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	18.989	19.006	(0.998)	21271	0.80529 LDL	15.69
* 69	Chrysene-d12	240	19.021	19.033	(1.000)	372511	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	19.053	19.070	(1.002)	28478	1.14823	22.37
72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134	Di-n-octylphthalate-d4	153	20.229	20.235	(1.000)	770908	20.0000	
73	Di-n-octylphthalate	149	20.239	20.245	(1.001)	494976	14.6711	285.8
74	Benzo(b)fluoranthene	252	20.635	20.651	(0.975)	20506	0.81904 LDL	15.95
75	Benzo(k)fluoranthene	252	20.651	20.683	(0.976)	20509	0.78850 ↓	15.36(M)
76	Benzo(a)pyrene	252	21.073	21.089	(0.996)	23415	1.02088	19.89
* 77	Perylene-d12	264	21.158	21.164	(1.000)	418625	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.515	22.532	(1.064)	21279	0.70216 LDL	13.68
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	22.857	22.874	(1.080)	341544	12.8069	249.5
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82ems.d
Lab Smp Id: JT82EMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-02-K-DUP M
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	151490	2.03
27 Naphthalene-d8	567893	283946	1135786	585956	3.18
42 Acenaphthene-d10	303756	151878	607512	305800	0.67
59 Phenanthrene-d10	446635	223318	893270	446581	-0.01
69 Chrysene-d12	372366	186183	744732	372511	0.04
134 Di-n-octylphthala	790006	395003	1580012	770908	-2.42
77 Perylene-d12	411060	205530	822120	418625	1.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	-0.01
27 Naphthalene-d8	9.57	9.07	10.07	9.57	-0.06
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	-0.05
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	-0.04
69 Chrysene-d12	19.03	18.53	19.53	19.02	-0.06
134 Di-n-octylphthala	20.23	19.73	20.73	20.23	-0.03
77 Perylene-d12	21.16	20.66	21.66	21.16	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82EMS
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDAMS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-K-DUP MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

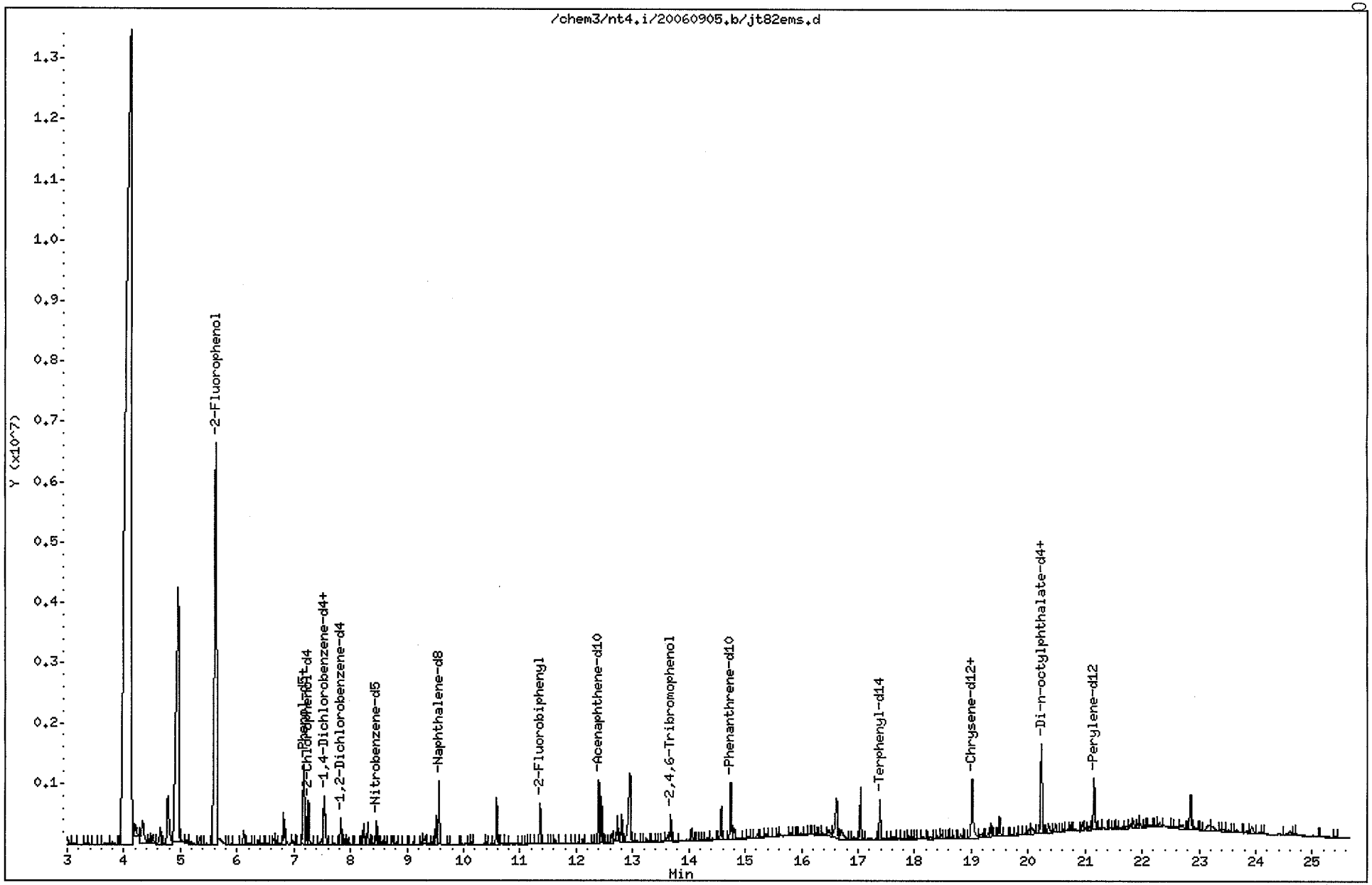
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	730.5	624.4	85.48	32-121
6	2-Chlorophenol	730.5	376.3	51.52	39-111
9	1,4-Dichlorobenzen	487.0	218.7	44.90	34-88
16	N-Nitroso-di-n-pro	487.0	262.4	53.89	24-100
26	1,2,4-Trichloroben	487.0	230.0	47.23	41-91
31	4-Chloro-3-methylp	730.5	422.5	57.84	48-110
44	Acenaphthene	487.0	268.0	55.03	48-108
47	4-Nitrophenol	730.5	464.4	63.57	27-155
48	2,4-Dinitrotoluene	487.0	293.4	60.24	30-124
58	Pentachlorophenol	730.5	452.3	61.92	28-151
65	Pyrene	487.0	325.2	66.78	10-153

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	730.5	424.1	58.05	22-91
$ 2	Phenol-d5	730.5	384.9	52.70	26-99
$ 5	2-Chlorophenol-d4	730.5	354.1	48.48	29-96
$ 10	1,2-Dichlorobenzen	487.0	214.0	43.93	24-87
$ 18	Nitrobenzene-d5	487.0	235.6	48.37	27-101
$ 36	2-Fluorobiphenyl	487.0	243.8	50.07	30-100
$ 55	2,4,6-Tribromophen	730.5	417.2	57.11	20-114
$ 66	Terphenyl-d14	487.0	268.7	55.17	12-120

Data File: /chem3/nt4.i/20060905.b/jt82ems.d
Date : 05-SEP-2006 23:05
Client ID: T4-S3-02-K-DUP MS
Sample Info: JT82EMS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32

0273



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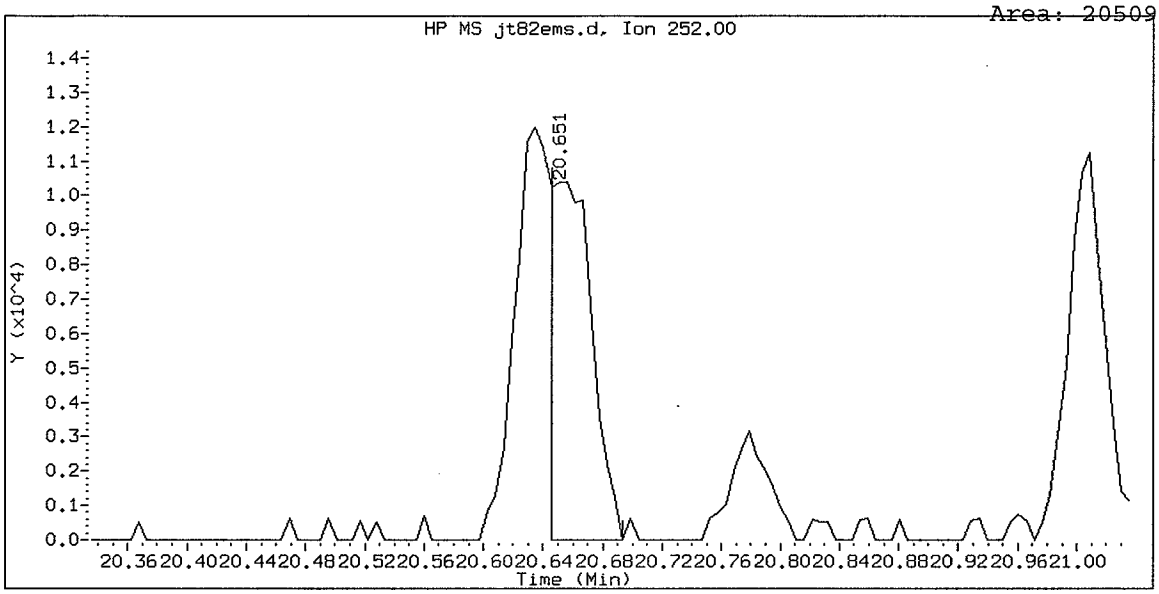
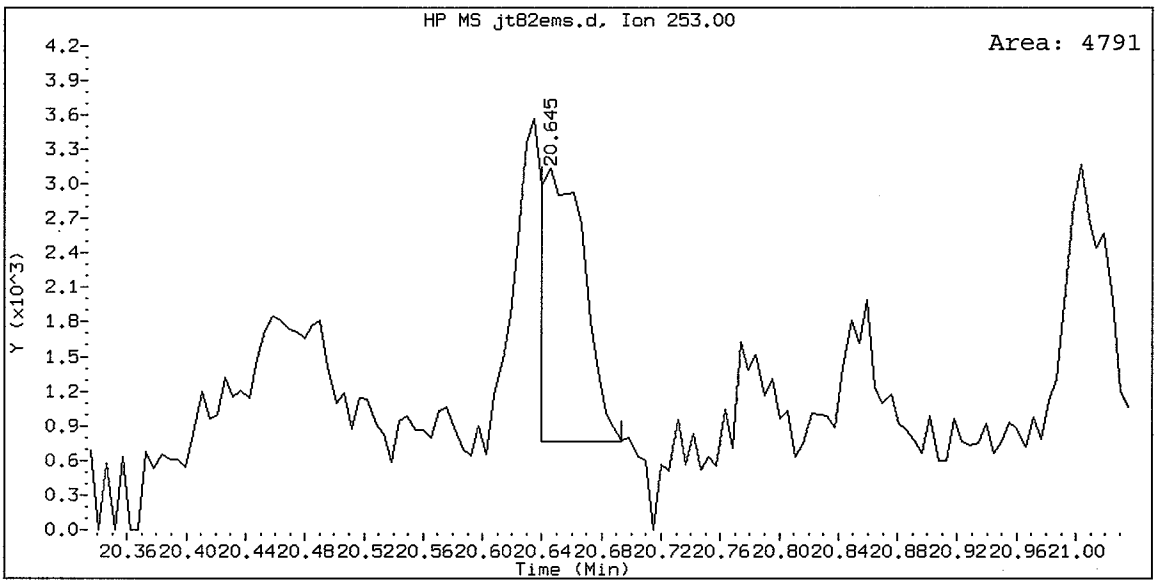
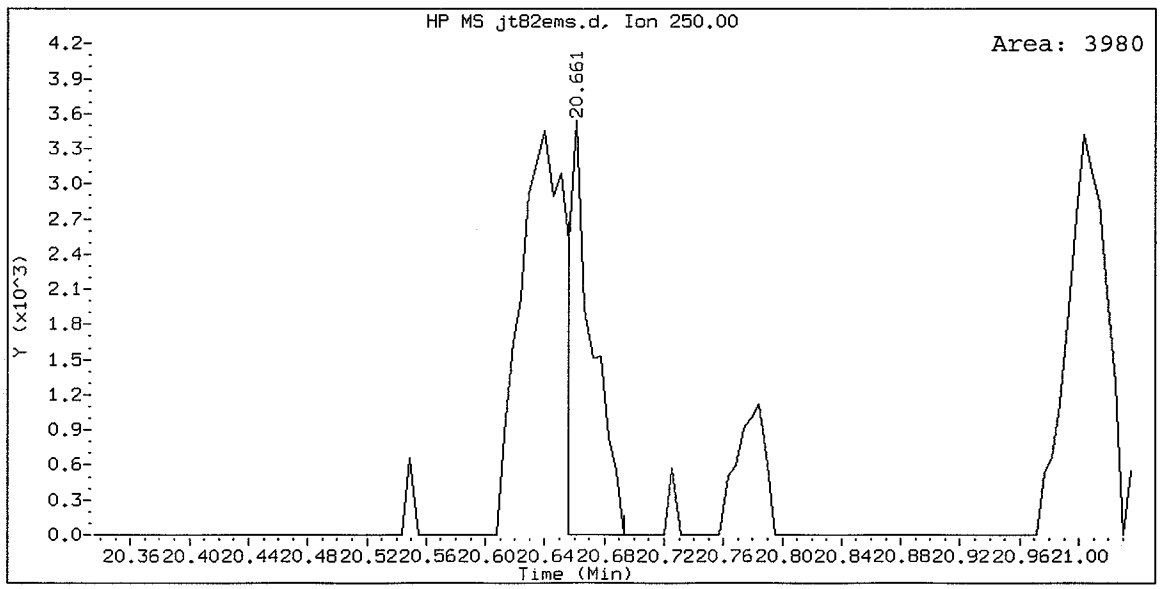
Benzo(k)fluoranthene Amount: 0.79







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-02-K-DUP**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/07/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 09/04/06
Date Analyzed: 09/05/06 23:38
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	58.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82emd.d
Lab Smp Id: JT82EMSD Client Smp ID: T4-S3-02-K-DUP MSD
Inj Date : 05-SEP-2006 23:38
Operator : VTS Inst ID: nt4.i
Smp Info : JT82EMSD
Misc Info : 06-15219
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:47 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 16 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJT 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	65.20000	Weight of sample extracted (g)
M	22.10000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	5.621	5.571	(0.746)	307209	25.3038	498.2
$	2 Phenol-d5	99	7.160	7.162	(0.950)	330191	22.5144	443.3
	3 Phenol	94	7.176	7.184	(0.952)	411967	23.2869	458.5
$	5 2-Chlorophenol-d4	132	7.245	7.248	(0.961)	244600	20.7031	407.6
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	7.267	7.269	(0.964)	238443	22.2948	439.0
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	7.539	7.536	(1.000)	152198	20.0000	
	9 1,4-Dichlorobenzene	146	7.561	7.563	(1.003)	153477	13.1323	258.6
$	10 1,2-Dichlorobenzene-d4	152	7.828	7.836	(1.038)	89960	12.6153	248.4
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	8.308	8.322	(1.102)	161674	15.5336	305.8
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	8.463	8.471	(0.885)	231829	13.8366	272.4
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	9.318	9.438	(0.974)	49651	6.39965 LPL	126.0
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	9.516	9.524	(0.995)	121919	13.9467	274.6
*	27 Naphthalene-d8	136	9.564	9.572	(1.000)	581180	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	10.590	10.597	(1.107)	247924	24.2523	477.5
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.359	11.367	(0.916)	295024	14.3056	281.7
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.401	12.403	(1.000)	302053	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	12.449	12.457	(1.004)	275564	15.6966	309.0
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	12.732	12.750	(1.027)	77537	24.3483	479.4
	48 2,4-Dinitrotoluene	165	12.807	12.820	(1.033)	93092	16.5781	326.4
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.677	13.691	(1.103)	57343	22.8505	449.9
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	14.575	14.588	(0.988)	79532	25.0994	494.2
*	59 Phenanthrene-d10	188	14.746	14.754	(1.000)	441187	20.0000	
	60 Phenanthrene	178	14.778	14.786	(1.002)	39947	1.54947	30.51(M)
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	16.696	16.704	(1.132)	57598	2.27226	44.74
	65 Pyrene	202	17.048	17.051	(0.896)	506403	18.2355	359.0
$	66 Terphenyl-d14	244	17.390	17.393	(0.914)	285055	14.7106	289.6
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	18.993	19.006	(0.999)	27141	1.04401	20.56
*	69 Chrysene-d12	240	19.019	19.033	(1.000)	366630	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	19.052	19.070	(1.002)	32319	1.32400	26.07
	72 bis(2-Ethylhexyl)phthalate	149	19.297	19.305	(0.954)	10956	0.61823 LOL	12.17(M)
*	134 Di-n-octylphthalate-d4	153	20.232	20.235	(1.000)	756520	20.0000	
	73 Di-n-octylphthalate	149	20.237	20.245	(1.000)	522389	15.7781	310.6
	74 Benzo(b)fluoranthene	252	20.633	20.651	(0.975)	24957	0.99714 LOL	19.63(M)
	75 Benzo(k)fluoranthene	252	20.649	20.683	(0.976)	26923	1.03543	20.39(M)
	76 Benzo(a)pyrene	252	21.076	21.089	(0.996)	27941	1.21861	23.99
*	77 Perylene-d12	264	21.156	21.164	(1.000)	418490	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.513	22.532	(1.064)	26509	0.87502 LOL	17.23
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	22.855	22.874	(1.080)	371551	13.9366	274.4
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82emd.d
Lab Smp Id: JT82EMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: T4-S3-02-K-DUP M
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	152198	2.51
27 Naphthalene-d8	567893	283946	1135786	581180	2.34
42 Acenaphthene-d10	303756	151878	607512	302053	-0.56
59 Phenanthrene-d10	446635	223318	893270	441187	-1.22
69 Chrysene-d12	372366	186183	744732	366630	-1.54
134 Di-n-octylphthala	790006	395003	1580012	756520	-4.24
77 Perylene-d12	411060	205530	822120	418490	1.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.04
27 Naphthalene-d8	9.57	9.07	10.07	9.56	-0.08
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	-0.02
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	-0.05
69 Chrysene-d12	19.03	18.53	19.53	19.02	-0.07
134 Di-n-octylphthala	20.23	19.73	20.73	20.23	-0.01
77 Perylene-d12	21.16	20.66	21.66	21.16	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82EMSD
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDAMS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-K-DUP MSD
Operator: VTS
SampleType: MSD
Quant Type: ISTD

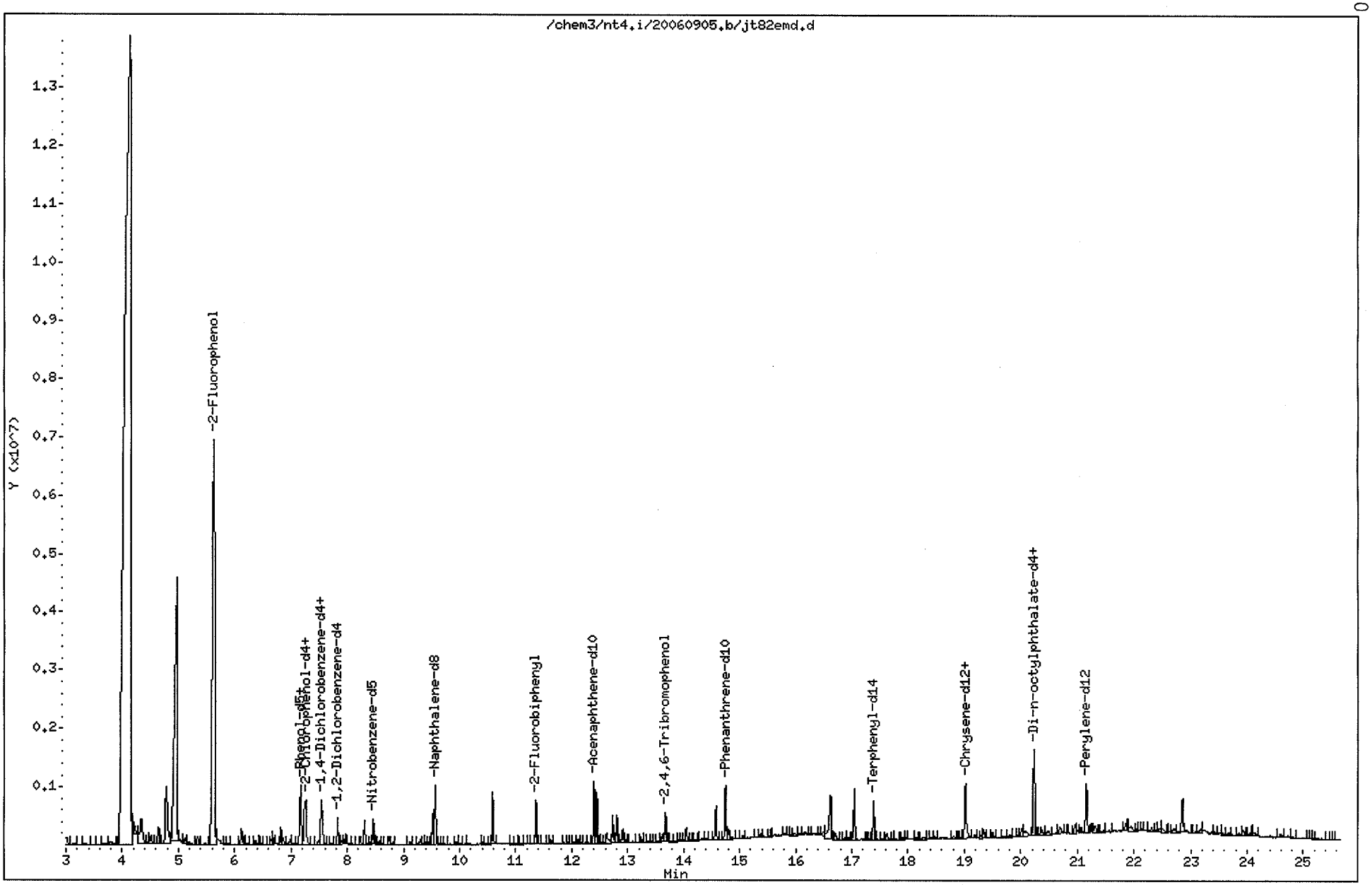
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	738.3	458.5	62.10	32-121
6	2-Chlorophenol	738.3	439.0	59.45	39-111
9	1,4-Dichlorobenzen	492.2	258.6	52.53	34-88
16	N-Nitroso-di-n-pro	492.2	305.8	62.13	24-100
26	1,2,4-Trichloroben	492.2	274.6	55.79	41-91
31	4-Chloro-3-methylp	738.3	477.5	64.67	48-110
44	Acenaphthene	492.2	309.0	62.79	48-108
47	4-Nitrophenol	738.3	479.4	64.93	27-155
48	2,4-Dinitrotoluene	492.2	326.4	66.31	30-124
58	Pentachlorophenol	738.3	494.2	66.93	28-151
65	Pyrene	492.2	359.0	72.94	10-153

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	738.3	498.2	67.48	22-91
$ 2	Phenol-d5	738.3	443.3	60.04	26-99
$ 5	2-Chlorophenol-d4	738.3	407.6	55.21	29-96
$ 10	1,2-Dichlorobenzen	492.2	248.4	50.46	24-87
$ 18	Nitrobenzene-d5	492.2	272.4	55.35	27-101
$ 36	2-Fluorobiphenyl	492.2	281.7	57.22	30-100
$ 55	2,4,6-Tribromophen	738.3	449.9	60.93	20-114
$ 66	Terphenyl-d14	492.2	289.6	58.84	12-120

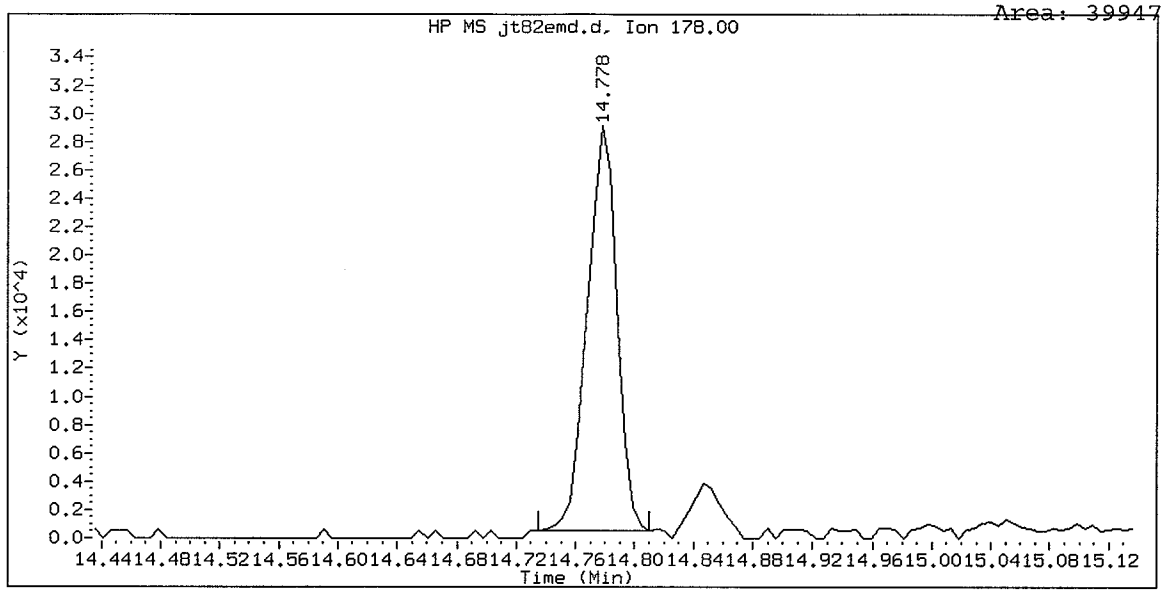
Data File: /chem3/nt4.i/20060905.b/jt82emd.d
Date : 05-SEP-2006 23:38
Client ID: T4-S3-02-K-DUP MSD
Sample Info: JT82EMSD
Volume Injected (uL): 1.0
Column phase: ZB-5

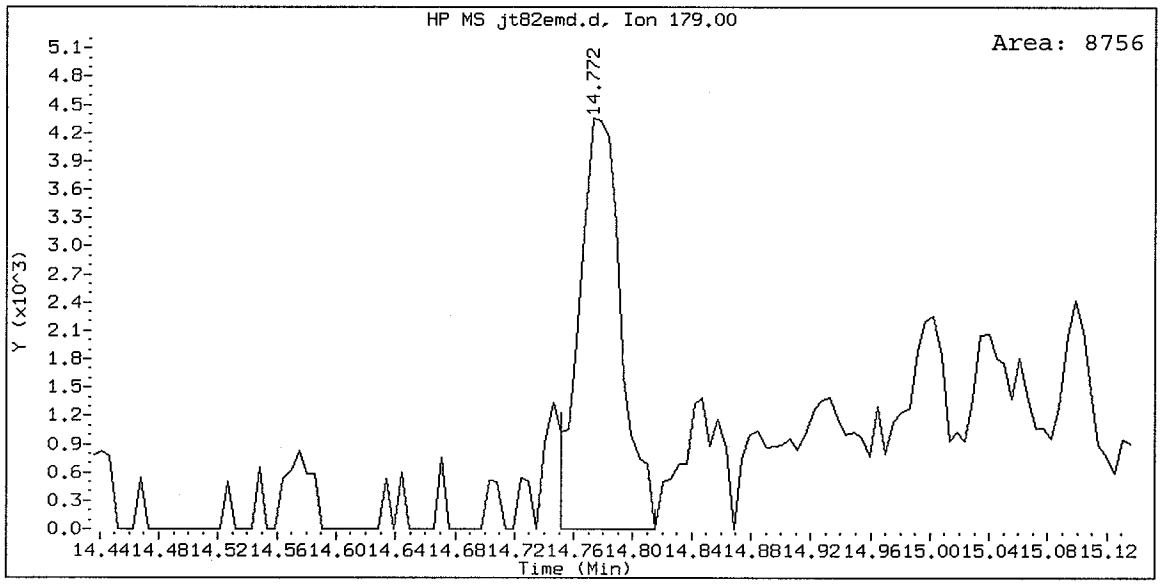
Instrument: nt4.i
Operator: VTS
Column diameter: 0.32

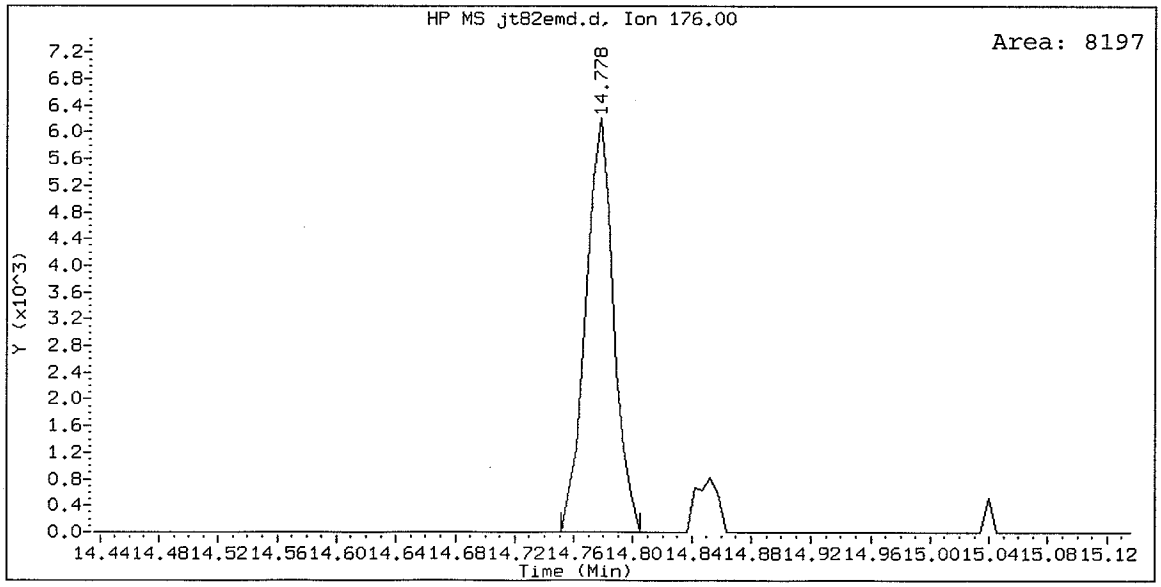
0281



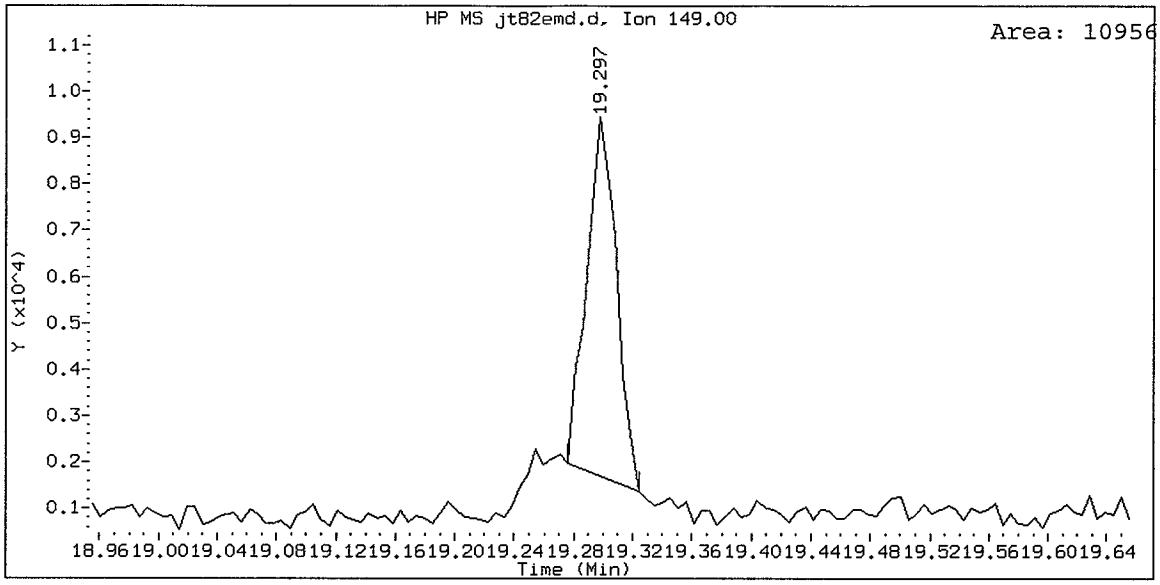
JT82EMSD, /chem3/nt4.i/20060905.b/jt82emd.d
Phenanthrene Amount: 1.55

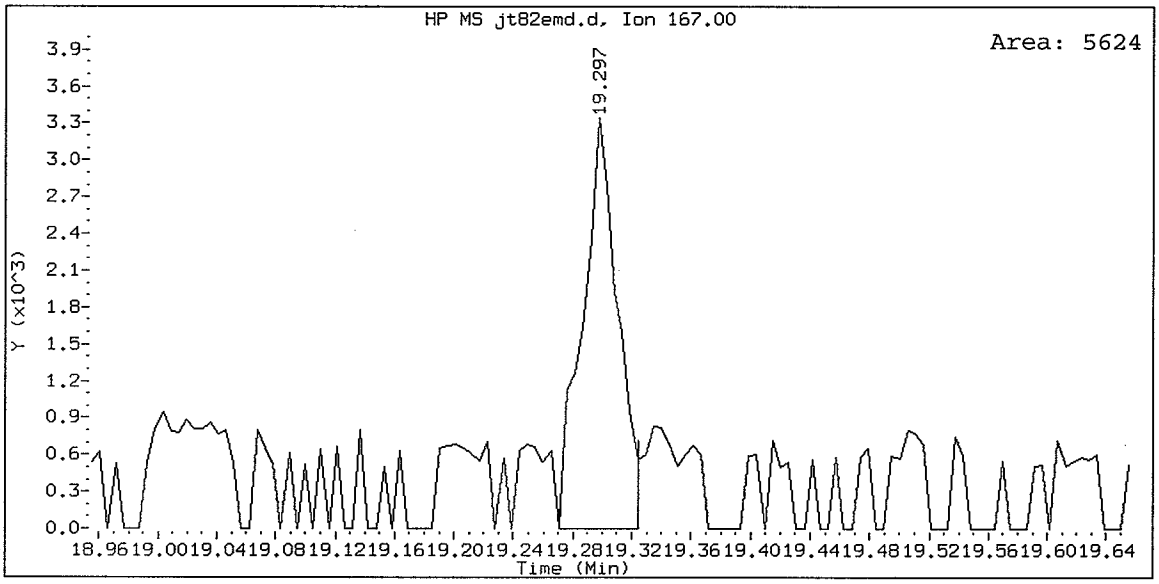


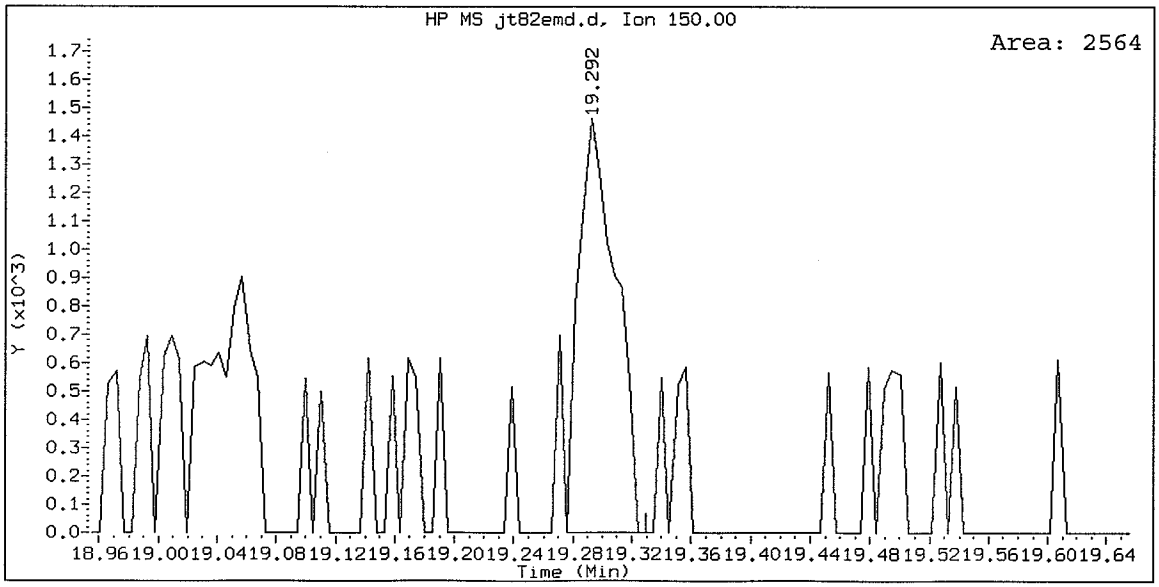




JT82EMSD, /chem3/nt4.i/20060905.b/jt82emd.d
bis(2-Ethylhexyl)phthalate Amount: 0.62







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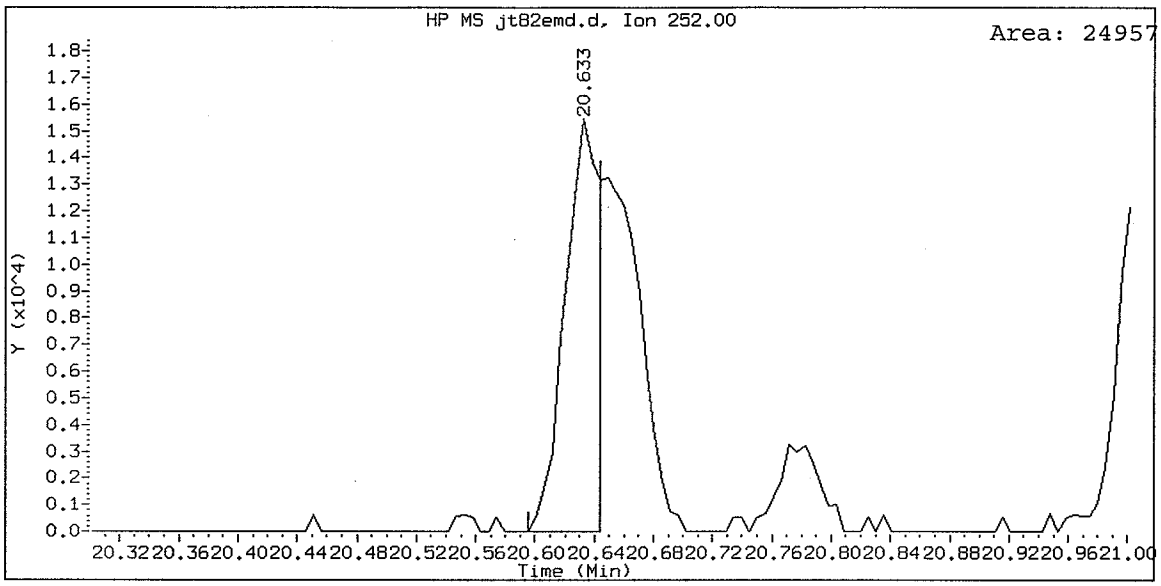
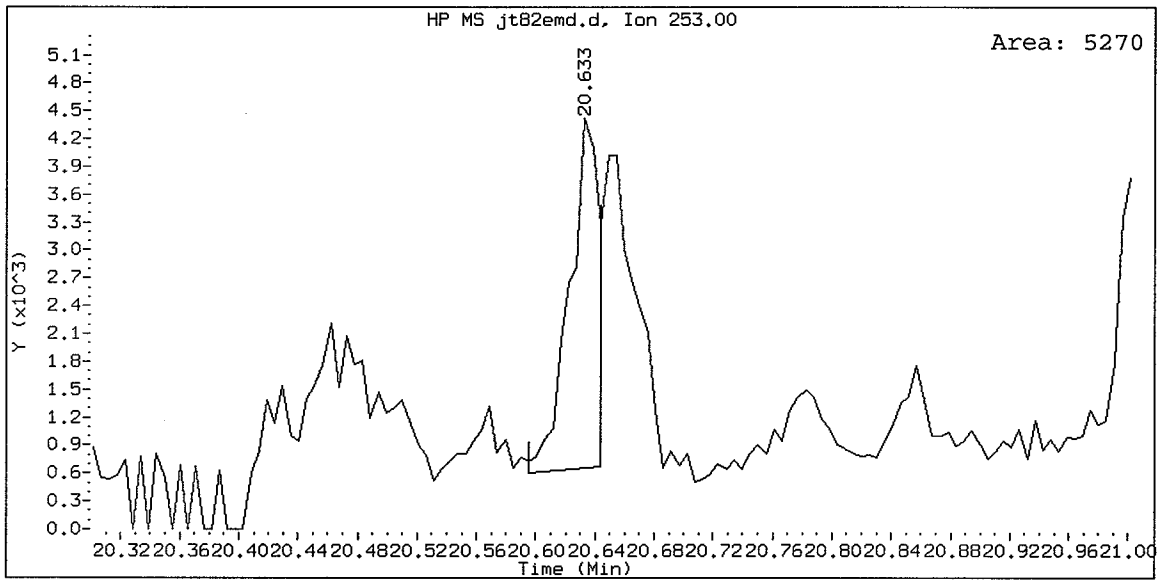
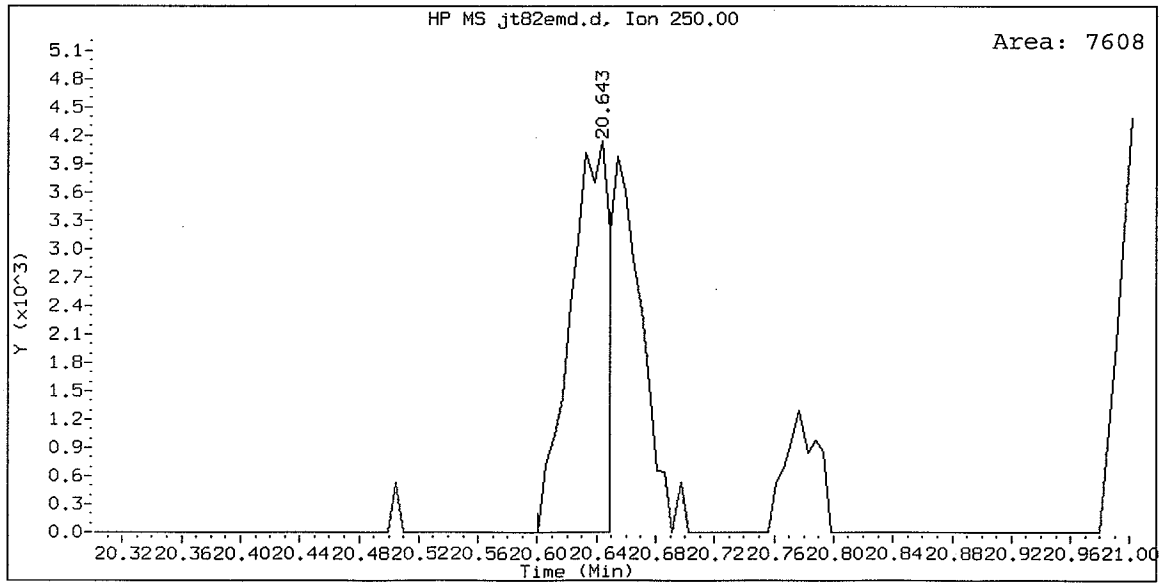
Benzo(b)fluoranthene Amount: 1.00







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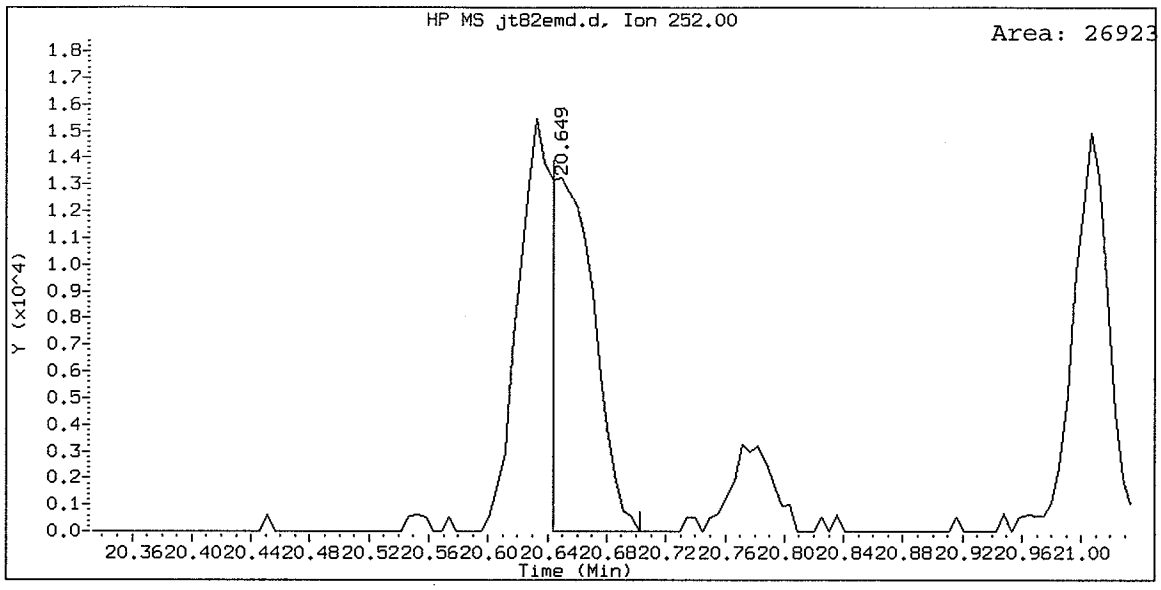
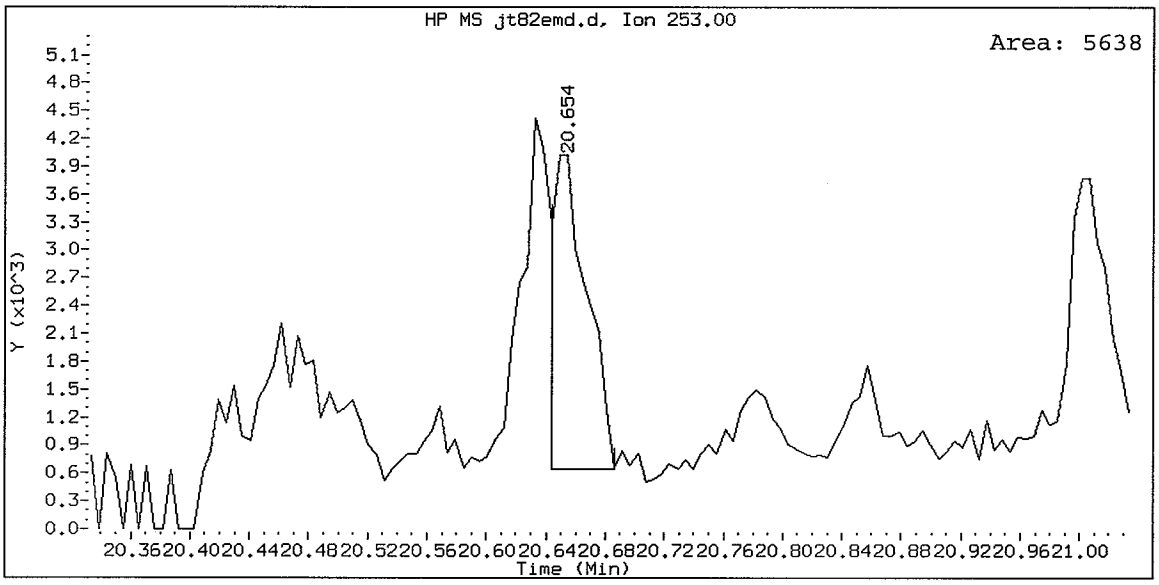
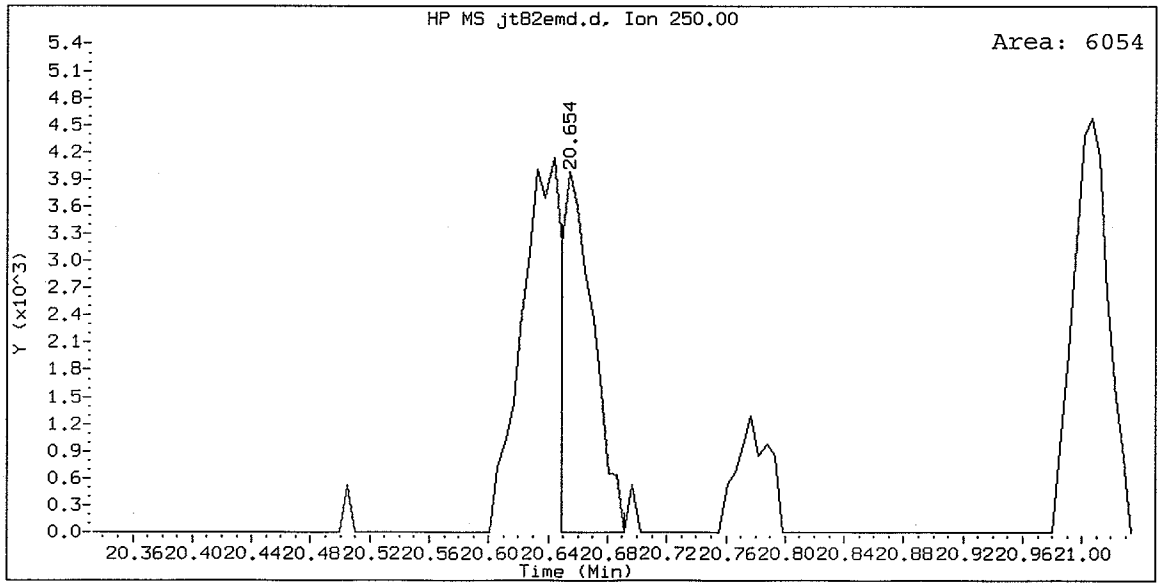
Benzo(k)fluoranthene Amount: 1.04







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20060905.b/jt82sb.d
Lab Smp Id: JT82LCSS1 Client Smp ID: JT82LCSS1
Inj Date : 05-SEP-2006 15:57
Operator : VTS Inst ID: nt4.i
Smp Info : JT82LCSS1
Misc Info : 06-15219
Comment : 1ul Injection
Method : /chem3/nt4.i/20060905.b/SW846.m
Meth Date : 06-Sep-2006 10:47 jeff Quant Type: ISTD
Cal Date : 15-AUG-2006 09:28 Cal File: 0800815.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJK 9/6/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.608	5.571	(0.744)	330360	26.5947	531.9
$ 2 Phenol-d5	99	7.163	7.162	(0.950)	386259	25.7413	514.8
3 Phenol	94	7.184	7.184	(0.953)	311618	17.2158	344.3
$ 5 2-Chlorophenol-d4	132	7.243	7.248	(0.961)	287756	23.8046	476.1
4 Bis(2-Chloroethyl)ether	93	7.227	7.232	(0.959)	228539	17.9964	359.9
6 2-Chlorophenol	128	7.270	7.269	(0.965)	185875	16.9862	339.7
7 1,3-Dichlorobenzene	146	7.473	7.472	(0.991)	179654	15.4518	309.0
* 8 1,4-Dichlorobenzene-d4	152	7.537	7.536	(1.000)	155723	20.0000	
9 1,4-Dichlorobenzene	146	7.563	7.563	(1.004)	184058	15.3924	307.8
$ 10 1,2-Dichlorobenzene-d4	152	7.831	7.836	(1.039)	100303	13.7473	274.9
12 1,2-Dichlorobenzene	146	7.852	7.857	(1.042)	175128	15.8440	316.9
11 Benzyl alcohol	108	7.841	7.846	(1.040)	145288	17.6672	353.3
14 2,2'-oxybis(1-Chloropropane)	45	8.098	8.108	(1.074)	206352	20.3016	406.0
13 2-Methylphenol	108	8.098	8.103	(1.074)	189728	17.8318	356.6
17 Hexachloroethane	117	8.338	8.338	(1.106)	79559	15.8233	316.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	8.317	8.322	(1.103)	186298	17.4943	349.9
	15 4-Methylphenol	108	8.343	8.338	(1.107)	420672	38.5039	770.1
$	18 Nitrobenzene-d5	82	8.466	8.471	(0.884)	268006	15.3146	306.3
	19 Nitrobenzene	77	8.493	8.498	(0.887)	285095	16.4592	329.2
	20 Isophorone	82	8.883	8.888	(0.928)	502301	18.5868	371.7
	21 2-Nitrophenol	139	9.011	9.016	(0.941)	95788	15.9628	319.3
	22 2,4-Dimethylphenol	107	9.155	9.160	(0.956)	166349	13.3725	267.4
	23 Bis(2-Chloroethoxy)methane	93	9.289	9.294	(0.970)	258613	17.1898	343.8
	24 Benzoic acid	105	9.374	9.438	(0.979)	167157	20.6278	412.6
	25 2,4-Dichlorophenol	162	9.406	9.406	(0.983)	138240	17.1117	342.2
	26 1,2,4-Trichlorobenzene	180	9.519	9.524	(0.994)	142647	15.6230	312.5
*	27 Naphthalene-d8	136	9.572	9.572	(1.000)	607030	20.0000	
	28 Naphthalene	128	9.599	9.604	(1.003)	526819	16.2052	324.1
	29 4-Chloroaniline	127	9.759	9.764	(1.020)	401743	30.4811	609.6
	30 Hexachlorobutadiene	225	9.930	9.930	(1.037)	77158	14.7263	294.5
	31 4-Chloro-3-methylphenol	107	10.592	10.597	(1.107)	191007	17.8890	357.8
	32 2-Methylnaphthalene	141	10.715	10.720	(1.119)	282240	16.5422	330.8
	33 Hexachlorocyclopentadiene	237	11.095	11.100	(0.894)	53548	12.1474	242.9
	34 2,4,6-Trichlorophenol	196	11.239	11.244	(0.906)	92342	16.2570	325.1
	35 2,4,5-Trichlorophenol	196	11.298	11.297	(0.911)	102753	17.1904	343.8
$	36 2-Fluorobiphenyl	172	11.362	11.367	(0.916)	324204	14.4819	289.6
	37 2-Chloronaphthalene	162	11.479	11.484	(0.925)	301671	16.0675	321.3
	38 2-Nitroaniline	65	11.725	11.730	(0.945)	150196	18.4128	368.3
	39 Dimethylphthalate	163	12.115	12.115	(0.977)	353713	17.2830	345.7
	40 Acenaphthylene	152	12.152	12.152	(0.980)	489290	16.2118	324.2
	41 2,6-Dinitrotoluene	165	12.195	12.200	(0.983)	83228	17.1498	343.0
*	42 Acenaphthene-d10	164	12.403	12.403	(1.000)	327888	20.0000	
	43 3-Nitroaniline	138	12.403	12.403	(1.000)	227671	43.1724	863.4
	44 Acenaphthene	153	12.451	12.457	(1.004)	310836	16.3107	326.2
	45 2,4-Dinitrophenol	184	12.564	12.569	(1.013)	17842	11.5128	230.3
	46 Dibenzofuran	168	12.713	12.713	(1.025)	426387	16.9137	338.3
	47 4-Nitrophenol	109	12.740	12.750	(1.027)	68132	19.7091	394.2
	48 2,4-Dinitrotoluene	165	12.815	12.820	(1.033)	110580	18.1408	362.8
	50 Diethylphthalate	149	13.258	13.269	(1.069)	367402	17.9424	358.8
	49 Fluorene	166	13.263	13.269	(1.069)	350814	16.7165	334.3
	51 4-Chlorophenyl-phenylether	204	13.301	13.306	(1.072)	160376	16.2740	325.5
	52 4-Nitroaniline	138	13.381	13.391	(1.079)	65825	13.8199	276.4
	53 4,6-Dinitro-2-methylphenol	198	13.456	13.466	(0.912)	40573	12.7749	255.5
	54 N-Nitrosodiphenylamine	169	13.509	13.514	(0.916)	238241	25.3808	507.6
$	55 2,4,6-Tribromophenol	330	13.685	13.691	(1.103)	63686	23.3785	467.6
	56 4-Bromophenyl-phenylether	248	14.075	14.075	(0.954)	89739	16.6616	333.2
	57 Hexachlorobenzene	284	14.278	14.278	(0.968)	88417	16.2305	324.6
	58 Pentachlorophenol	266	14.583	14.588	(0.989)	55430	16.2040	324.1
*	59 Phenanthrene-d10	188	14.749	14.754	(1.000)	476286	20.0000	
	60 Phenanthrene	178	14.786	14.786	(1.003)	481606	17.3040	346.1
	61 Anthracene	178	14.855	14.860	(1.007)	456042	16.5440	330.9
	62 Carbazole	167	15.149	15.154	(1.027)	427275	17.2796	345.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	63 Di-n-butylphthalate	149	15.897	15.902	(1.078)	605427	19.4950	389.9
	64 Fluoranthene	202	16.704	16.704	(1.133)	495284	18.0992	362.0
	65 Pyrene	202	17.046	17.051	(0.896)	500060	16.9698	339.4
$	66 Terphenyl-d14	244	17.388	17.393	(0.914)	325224	15.8168	316.3
	67 Butylbenzylphthalate	149	18.290	18.296	(0.962)	249794	18.3196	366.4
	68 Benzo(a)anthracene	228	19.001	19.006	(0.999)	461391	16.7256	334.5
*	69 Chrysene-d12	240	19.022	19.033	(1.000)	389039	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.033	19.033	(1.001)	260525	28.1183	562.4
	71 Chrysene	228	19.065	19.070	(1.002)	447098	17.2611	345.2
	72 bis(2-Ethylhexyl)phthalate	149	19.305	19.305	(0.954)	351060	18.5270	370.5
*	134 Di-n-octylphthalate-d4	153	20.235	20.235	(1.000)	808895	20.0000	
	73 Di-n-octylphthalate	149	20.240	20.245	(1.000)	627940	17.7381	354.8
	74 Benzo(b)fluoranthene	252	20.641	20.651	(0.976)	454043	18.6438	372.9
	75 Benzo(k)fluoranthene	252	20.673	20.683	(0.977)	479636	18.9576	379.2
	76 Benzo(a)pyrene	252	21.079	21.089	(0.996)	395505	17.7276	354.6
*	77 Perylene-d12	264	21.159	21.164	(1.000)	407202	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.521	22.532	(1.064)	523422	17.7563	355.1
	79 Dibenzo(a,h)anthracene	278	22.553	22.559	(1.066)	454836	18.8734	377.5
	80 Benzo(g,h,i)perylene	276	22.863	22.874	(1.081)	462346	17.8229	356.5
	90 N-Nitrosodimethylamine	74	2.739	2.723	(0.363)	113886	13.1105	262.2
	91 Aniline	93	7.099	7.104	(0.942)	441413	20.9929	419.9
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	2.734	2.712	(0.363)	113437	7.45728	149.1
	105 1-methylnaphthalene	141	10.881	10.886	(1.137)	286439	16.4930	329.9
	111 Azobenzene (1,2-DP-Hydrazine)	77	13.547	13.552	(1.092)	549923	17.5252	350.5

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: jt82sb.d
Lab Smp Id: JT82LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Calibration Date: 05-SEP-2006
Calibration Time: 14:42
Client Smp ID: JT82LCSS1
Level: LOW
Sample Type: Solid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	148470	74235	296940	155723	4.89
27 Naphthalene-d8	567893	283946	1135786	607030	6.89
42 Acenaphthene-d10	303756	151878	607512	327888	7.94
59 Phenanthrene-d10	446635	223318	893270	476286	6.64
69 Chrysene-d12	372366	186183	744732	389039	4.48
134 Di-n-octylphthala	790006	395003	1580012	808895	2.39
77 Perylene-d12	411060	205530	822120	407202	-0.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.54	7.04	8.04	7.54	0.00
27 Naphthalene-d8	9.57	9.07	10.07	9.57	0.00
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.00
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	-0.03
69 Chrysene-d12	19.03	18.53	19.53	19.02	-0.05
134 Di-n-octylphthala	20.23	19.73	20.73	20.23	0.00
77 Perylene-d12	21.16	20.66	21.66	21.16	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem3/nt4.i/20060905.b/SW846.m
Misc Info: 06-15219

Client SDG: JT82
Fraction: SV
Client Smp ID: JT82LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	500.0	344.3	68.86	42-101
4	Bis(2-Chloroethyl)	500.0	359.9	71.99	55-102
6	2-Chlorophenol	500.0	339.7	67.94	43-99
7	1,3-Dichlorobenzen	500.0	309.0	61.81	53-95
9	1,4-Dichlorobenzen	500.0	307.8	61.57	39-93
11	Benzyl alcohol	500.0	353.3	70.67	19-123
12	1,2-Dichlorobenzen	500.0	316.9	63.38	54-96
13	2-Methylphenol	500.0	356.6	71.33	53-108
14	2,2'-oxybis(1-Chlo	500.0	406.0	81.21	53-103
15	4-Methylphenol	1000	770.1	77.01	54-116
16	N-Nitroso-di-n-pro	500.0	349.9	69.98	31-108
17	Hexachloroethane	500.0	316.5	63.29	52-99
19	Nitrobenzene	500.0	329.2	65.84	58-112
20	Isophorone	500.0	371.7	74.35	59-122
21	2-Nitrophenol	500.0	319.3	63.85	58-112
22	2,4-Dimethylphenol	500.0	267.4	53.49	17-121
23	Bis(2-Chloroethoxy	500.0	343.8	68.76	57-116
24	Benzoic acid	500.0	412.6	82.51	39-143
25	2,4-Dichlorophenol	500.0	342.2	68.45	57-119
26	1,2,4-Trichloroben	500.0	312.5	62.49	40-102
28	Naphthalene	500.0	324.1	64.82	58-106
29	4-Chloroaniline	1200	609.6	50.80	10-57
30	Hexachlorobutadien	500.0	294.5	58.91	56-108
31	4-Chloro-3-methylp	500.0	357.8	71.56	42-121
32	2-Methylnaphthalen	500.0	330.8	66.17	59-111
33	Hexachlorocyclopen	500.0	242.9	48.59	31-122
34	2,4,6-Trichlorophe	500.0	325.1	65.03	58-114
35	2,4,5-Trichlorophe	500.0	343.8	68.76	57-115
37	2-Chloronaphthalen	500.0	321.3	64.27	58-112
38	2-Nitroaniline	500.0	368.3	73.65	36-89
39	Dimethylphthalate	500.0	345.7	69.13	59-126
40	Acenaphthylene	500.0	324.2	64.85	58-114
41	2,6-Dinitrotoluene	500.0	343.0	68.60	58-131

OK

SPIKE	COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43	3-Nitroaniline	1280	863.4	67.46	33-92
44	Acenaphthene	500.0	326.2	65.24	43-108
45	2,4-Dinitrophenol	500.0	230.3	46.05	10-174
46	Dibenzofuran	500.0	338.3	67.65	57-117
47	4-Nitrophenol	500.0	394.2	78.84	34-140
48	2,4-Dinitrotoluene	500.0	362.8	72.56	32-126
49	Fluorene	500.0	334.3	66.87	57-124
50	Diethylphthalate	500.0	358.8	71.77	60-134
51	4-Chlorophenyl-phe	500.0	325.5	65.10	57-125
52	4-Nitroaniline	500.0	276.4	55.28	52-109
53	4,6-Dinitro-2-meth	500.0	255.5	51.10	24-151
54	N-Nitrosodiphenyla	500.0	507.6	101.52	51-131
56	4-Bromophenyl-phen	500.0	333.2	66.65	60-125
57	Hexachlorobenzene	500.0	324.6	64.92	59-122
58	Pentachlorophenol	500.0	324.1	64.82	39-117
60	Phenanthrene	500.0	346.1	69.22	56-129
61	Anthracene	500.0	330.9	66.18	55-116
62	Carbazole	500.0	345.6	69.12	60-131
63	Di-n-butylphthalat	500.0	389.9	77.98	59-144
64	Fluoranthene	500.0	362.0	72.40	55-137
65	Pyrene	500.0	339.4	67.88	39-127
67	Butylbenzylphthala	500.0	366.4	73.28	56-148
68	Benzo(a)anthracene	500.0	334.5	66.90	61-128
70	3,3'-Dichlorobenzi	1280	562.4	43.93	10-75
71	Chrysene	500.0	345.2	69.04	59-129
72	bis(2-Ethylhexyl)p	500.0	370.5	74.11	53-141
73	Di-n-octylphthalat	500.0	354.8	70.95	42-142
74	Benzo(b)fluoranthe	500.0	372.9	74.58	53-146
75	Benzo(k)fluoranthe	500.0	379.2	75.83	50-153
76	Benzo(a)pyrene	500.0	354.6	70.91	54-132
78	Indeno(1,2,3-cd)py	500.0	355.1	71.03	33-169
79	Dibenzo(a,h)anthra	500.0	377.5	75.49	41-162
80	Benzo(g,h,i)peryle	500.0	356.5	71.29	10-179

OK

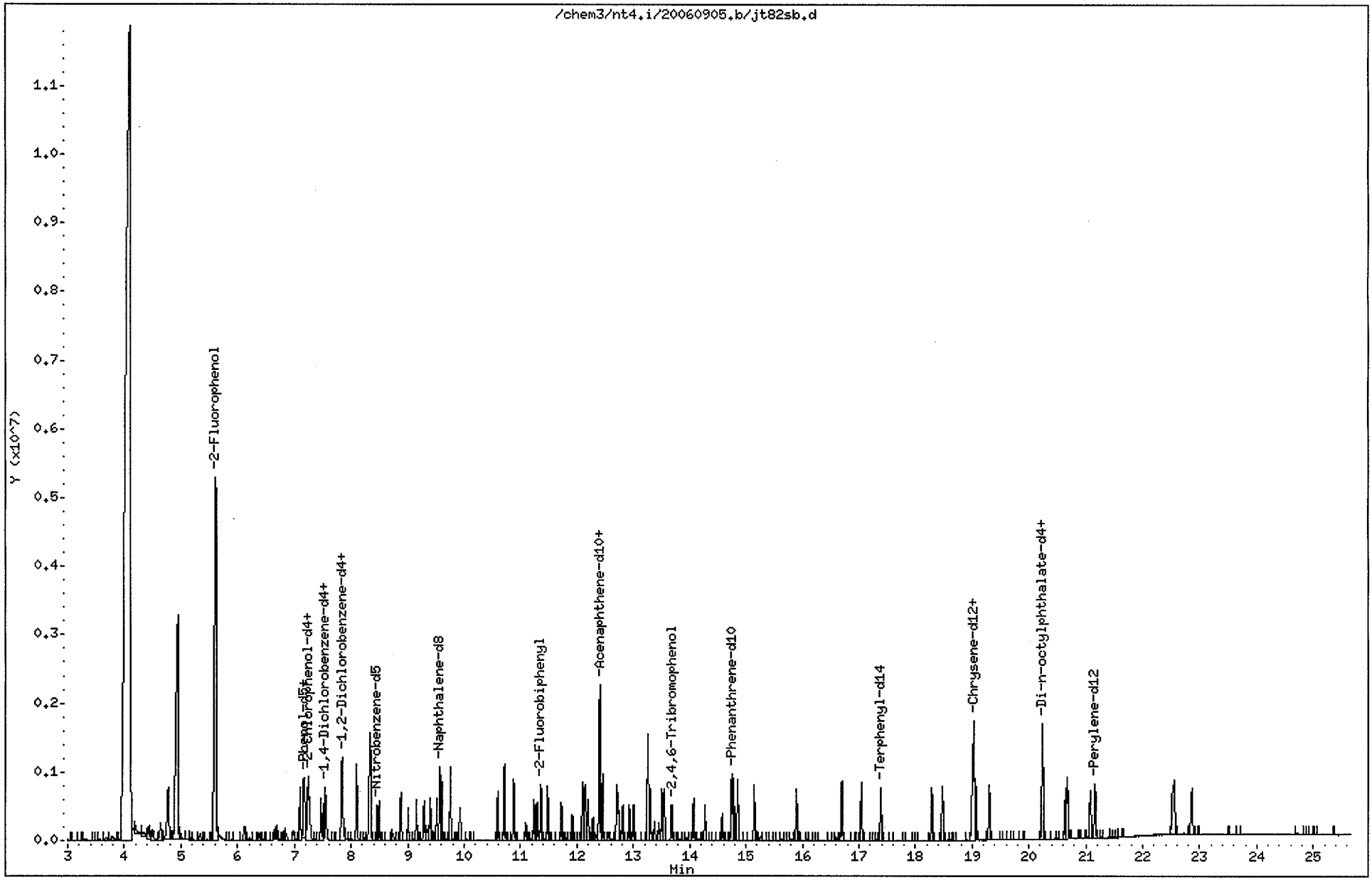
SURROGATE	COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	750.0	531.9	70.92	42-87
$ 2	Phenol-d5	750.0	514.8	68.64	47-87
$ 5	2-Chlorophenol-d4	750.0	476.1	63.48	47-86
$ 10	1,2-Dichlorobenzen	500.0	274.9	54.99	43-82
$ 18	Nitrobenzene-d5	500.0	306.3	61.26	46-87
$ 36	2-Fluorobiphenyl	500.0	289.6	57.93	46-88
$ 55	2,4,6-Tribromophen	750.0	467.6	62.34	40-97

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	500.0	316.3	63.27	37-114

Data File: /chem3/nt4.i/20060905.b/jt82sb.d
Date : 05-SEP-2006 15:57
Client ID: JT82LCSS1
Sample Info: JT82LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32

0293



Semivolatile Organics
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

QA. LIMs # _____
EXT LIMs # _____
Bid # SV0822C-61

(8270) BAN/Skydrol/Phenol – Soil/Sediment/Tissue
In House ____ /PSDDA X Medium Level ____
(3550B) Microtip ____
(3550B) Macrotip X /Tissuemizer ____
Med.Shakeout ____
KD X
Turbovap X

ANALYTICAL RESOURCES INCORPORATED

Client Name: Anchor Environmental

ARI Job No(s): JT82

Extraction Requirements (ARI Lab ID)	Sample Client ID	Amount Extracted (g)	GPC Aliquot (#1) #2 (req)	Silica-gel Aliquot Y / N	Final Effective Volume	Aliquot Volume For Analysis	Time Extracted 12:30 Comments
MB: JT82 MB3	8-25-06	50.00	1:2 (4mL)		1 mL	0.5 mL	
SB: SB3	8-25-06	50.00					
A	verified	75.63					
B		73.89					
C		80.06					
D		68.29					
E		65.43					
EMS		65.86					
EMSD		65.24					
I		51.22					
	Date/Analyst:	GA# 8-25-06	9/4/06 KDINC/06		9/5/06 KDINC/9/5/06		

Surrogate Amount: 250 µL Added by: GA# /Spk. Witness RC
Concentration: 100/150 µg/mL ID: 1420-4A

B Spike Amount: 250 µL Added by: GA# /Spk. Witness RC
Concentration: 100 µg/mL ID: 1417-1

Xtra Spike Amount: 250 µL Added by: GA# /Spk.Witness RC
Concentration: 200 µg/mL ID: 1405-1

(DCM)solvent ID: I3241
(1:1DCM/Acetone) Reagent ID: I-506
(95:5DCM/Hexane) Reagent ID:
Neutral glasswool ID: G-7#3 / #2607
0.05% HCL/acetone Reagent ID: I-489
Na2So4 ID: I3205 / #6 8/22
3% Silica gel ID:
95:5Ether/DCM ID: 8:2:9Ether/Meoh/DCM ID:

1529

3009F Spk Amt: 250 µL Added: GA#
Cone: 100/150 µg/mL Witness: RC
ID: 1407-4A

Spk Amt: 250 µL Added: GA#
Cone: 100 µg/mL Witness: RC
ID: 1304-4

ANALYTICAL RESOURCES INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JT82 Client Name: Anchor Environmental

Parameter: BAN PSDDA Client Project: T-4 Early Action

3745 SOP Number(s) [ ] No Anomalies

List problems, corrective actions, and any other pertinent information:

A- wet sticky clay
B- same
C- same, discarded standing H_2O, slight sulfur odor
I- same as "C" TH 8/21/06

All extracts filtered thru 0.45µm PTFE filters prior to GPC. SP 5/2/06

No archive remaining for sample B. Spilled vial and used archive to load on GPC. SP 5/4/06

Extraction

Analyst: _____ Date Extracted: _____

See Reverse Side for Additional Information

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: JT82 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): BANs

Instrument: NT-1 NT-2 (NT-4) NT-6

Curve Date: 8/15/06 Analysis Start Date: 9/5/06

DFTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	YES / (NO)
DDT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	(YES) / NO
Cal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	(YES) / NO
CCal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	(YES) / NO / NA
Internal Standard Meets Criteria?	(YES) / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): -Bis-phthalate in MB. B flagging sample hits.

-Phthalates only.

LTC
9/7/06

Additional Details on Reverse: Yes / (No)

Analyst Signature: [signature] **Date:** 9/7/06

Reviewer's Signature: [signature] **Date:** 9/7/06

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 8/15/06 Analysis: BANs Analyst: LJK

GC Program: ABN Column No: 103686 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060630 EM Voltage: 1400

Calibration File: 0250815 Curve Date: 8/15/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1417-3	1374-3
	1418-1,2	1375-1,2
	1396-2	
	1401-1	

	Time	Filename	LabID	ClientId	DF											
1	0855	0250815.d	ABN 25	ABN 25	1	8.59	144618	10.63	543038	13.50	285517	15.89	409554	20.23	311119	22.41	362847	21.33	651942
2	0928	0800815.d	ABN 80	ABN 80	1	8.60	149432	10.64	561620	13.51	298381	15.90	438547	20.25	340770	22.42	386602	21.34	708557
3	1001	0010815.d	ABN 1	ABN1	1	8.59	164925	10.63	600124	13.50	311586	15.89	452595	20.23	351327	22.41	415076	21.33	715410
4	1034	0400815.d	ABN 40	ABN 40	1	8.59	159653	10.63	598745	13.50	315117	15.90	456057	20.24	353296	22.41	409650	21.33	713441
5	1107	0050815.d	ABN 5	ABN 5	1	8.59	158892	10.63	585388	13.50	306835	15.89	435718	20.23	337343	22.41	393946	21.33	677737
6	1140	0100815.d	ABN 10	ABN 10	1	8.59	153722	10.63	568236	13.50	298640	15.89	425474	20.23	330586	22.41	390155	21.33	664397
7	1213	icv0815.d	ABN ICV	ABN ICV	1	8.59	158442	10.63	597662	13.50	314027	15.89	453922	20.24	348572	22.41	398708	21.33	689027
8	1500	14204.d	ABN SOLN 1420-4		5	8.59	165255	10.63	605086	13.50	326869	15.89	484549	20.23	383269	21.33	718139	22.42	421583

LJK 8/16/06

Maintenance / Comments New column. New liner + wool. New inlet seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 0250815

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log
NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 9/5/06 Analysis: BANs Analyst: LJK

GC Program: ABN Column No: 103686 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060630 EM Voltage: 1900

Calibration File: cc0905 Curve Date: 8/15/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1417-3	
	1418-1,2	
	1396-2	

Time	Filename	LabID	ClientId	DF															
1442	cc0905.d	ABN 25		1	7.54	148470	9.57	567893	12.40	303756	14.75	446635	19.03	372366	21.16	411060	20.23	790006	
1915	jr98mb3.d	JR98MBS1	JR98MBS1	1	7.54	149997	9.56	579074	12.40	312121	14.74	469784	19.02	365827	20.22	771672	21.15	309228	
1947	jr98sb3.d	JR98LCSS1	JR98LCSS1	1	7.54	155046	9.57	597429	12.40	328107	14.74	482915	19.02	380515	20.23	793996	21.16	356167	
1524	jt82mb.d	JT82MBS1	JT82MBS1	1	7.54	150422	9.57	571451	12.40	303787	14.75	446897	19.02	345862	20.23	746007	21.16	352332	
1557	jt82sb.d	JT82LCSS1	JT82LCSS1	1	7.54	155723	9.57	607030	12.40	327888	14.75	476286	19.02	389039	20.23	808895	21.16	407202	
1630	jt29mb.d	JT29MBS1	JT29MBS1	1	7.54	127106	9.57	488978	12.40	259540	14.75	386088	19.02	297171	20.23	627017	21.15	241312	
1703	jt29sb.d	JT29LCSS1	JT29LCSS1	1	7.54	132609	9.57	503817	12.40	271608	14.75	392597	19.02	303644	20.23	637447	21.16	285620	
1736	jt29sbd.d	JT29LCSDS1	JT29LCSDS1	1	7.54	136330	9.57	510836	12.40	273145	14.74	402742	19.02	316919	20.23	662801	21.16	302044	
1809	jt38mb.d	JT38MBS1	JT38MBS1	1	9.56	603509	12.40	320541	14.74	474411	19.02	372638	21.16	398721					
1842	jt38sb.d	JT38LCSS1	JT38LCSS1	1	9.57	567475	12.40	304717	14.75	442881	19.02	347302	21.16	353506					
2020	jt82a.d	JT82A	T4-S3-01-J	5	7.53	157737	9.57	598960	12.40	311443	14.75	453798	19.04	436419	20.25	818771	21.19	473670	
2054	jt82b.d	JT82B	T4-S3-01-K	1	7.54	159700	9.57	612628	12.40	324438	14.74	473090	19.02	378690	20.23	775256	21.16	408106	
2126	jt82c.d	JT82C	T4-S3-02-G	1	7.54	149412	9.57	575977	12.41	303593	14.76	472243	19.05	498905	20.26	1049622	21.21	572413	
2159	jt82d.d	JT82D	T4-S3-02-J	1	7.54	147733	9.57	557659	12.40	291896	14.75	422930	19.03	388984	20.24	832136	21.17	467046	
2232	jt82e.d	JT82E	T4-S3-02-K-DUP	1	7.54	152797	9.57	584946	12.40	311583	14.74	451306	19.02	379370	20.23	774384	21.16	437090	
2305	jt82ems.d	JT82EMS	T4-S3-02-K-DUP MS	1	7.54	151490	9.57	585956	12.40	305800	14.75	446581	19.02	372511	20.23	770908	21.16	418625	
2338	jt82emd.d	JT82EMSD	T4-S3-02-K-DUP MSD	1	7.54	152198	9.56	581180	12.40	302053	14.75	441187	19.02	366630	20.23	756520	21.16	418490	
0011	jt82i.d	JT82I	T4-S3-02-H	1	7.53	149033	9.56	566871	12.40	297166	14.76	447532	19.04	426300	20.24	903187	21.18	490623	
0044	jt29a.d	JT29A	IDW-11	1	7.54	130650	9.57	496544	12.40	261810	14.74	378047	19.02	324658	20.23	673190	21.16	365859	
0117	jt38a.d	JT38A	12225010007	1	9.57	499310	12.40	266140	14.74	384323	19.02	331809	21.16	373367					
0150	jt38b.d	JT38B	12225010008	1	9.56	481923	12.40	254502	14.74	367119	19.02	322241	21.16	380409					
0223	jt38c.d	JT38C	12225010009	1	9.57	470249	12.40	249949	14.75	361215	19.02	332042	21.16	380501					
0256	jt38d.d	JT38D	12225010010	1	9.56	497018	12.40	266062	14.74	390178	19.02	332562	21.16	377250					
0328	jt38e.d	JT38E	12225010011	1	9.56	456259	12.40	241016	14.74	350490	19.02	306970	21.15	340831					

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

LJK 9/6/06

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0905

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GPC 1 Log

Date: 9-4-06 Initial Run Number: 1

Analyst: SP

Loop Number	ARI Lab ID	Aliquot Loaded
1	Acetone Rinse 1:1 (10mL)	
2	DCM Rinse	↓
3	JT 82 mbs 8/25 1:2 BAN (4mL)	
4	A	
5	B	
6	C	
7	D	
8	E	
9	I	
10	JT 82 sbs 8/25	
11	EMS	
12	EMSD	
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 4.8 mL/min
(Average of two measurements)

	Method	
BAN program		PCB Program
28	Dump	/
60	Collect	
70	Wash	

Stop Time: 70.15

Analyst: SP

Lab Temp 24.5°C (64 - 77°F)

Collection Line Witness

GAA 9-4 Before Run

R 9-5 After Run

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20060830
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: GPC CAL
Level: LOW Operator: VTS
Data Type: MS DATA SampleType: LCS
SpikeList File: GPC.spk Quant Type: ISTD
Sublist File: PSDDAMBLCS.sub
Method File: /chem3/nt4.i/20060830.b/SW846.m
Misc Info:

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
3	Phenol	750.0	615.5	82.06	43-108
6	2-Chlorophenol	750.0	595.3	79.37	46-104
9	1,4-Dichlorobenzen	500.0	378.3	75.66	35-83
16	N-Nitroso-di-n-pro	500.0	410.5	82.10	25-94
26	1,2,4-Trichloroben	500.0	384.6	76.92	29-85
31	4-Chloro-3-methylp	750.0	630.1	84.01	42-98
44	Acenaphthene	500.0	407.7	81.55	40-99
47	4-Nitrophenol	750.0	619.1	82.55	27-133
48	2,4-Dinitrotoluene	500.0	419.2	83.84	34-108
58	Pentachlorophenol	750.0	543.1	72.41	51-128
65	Pyrene	500.0	456.5	91.30	32-122
73	Di-n-octylphthalat	500.0	394.2	78.84	36-108
80	Benzo(g,h,i)peryle	500.0	386.5	77.30	36-108

	SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	750.0	557.6	74.34	42-87
$ 2	Phenol-d5	750.0	598.9	79.85	47-87
$ 5	2-Chlorophenol-d4	750.0	577.8	77.05	47-86
$ 10	1,2-Dichlorobenzen	500.0	377.9	75.59	43-82
$ 18	Nitrobenzene-d5	500.0	392.8	78.55	46-87
$ 36	2-Fluorobiphenyl	500.0	383.3	76.66	46-88
$ 55	2,4,6-Tribromophen	750.0	577.7	77.02	40-97
$ 66	Terphenyl-d14	500.0	442.8	88.56	37-114

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NTA Curve Client ID: ARI

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): BANs

Instrument: NT-1 NT-2 (NT-4) NT-6

Curve Date: 8/15/06 Analysis Start Date: —

DFTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	~~YES / NO~~
DDT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	~~YES / NO~~
ICal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	(YES) / NO
CCal Meets RF & %RSD Criteria?	~~YES / NO~~	Special Analysis Criteria Met?	(YES) / NO / NA
Internal Standard Meets Criteria?	(YES) / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): -2,4-Dinitrophenol RSD >40%. Wouldn't linear fit.

LTC
8/16/06

Additional Details on Reverse: Yes / (No)

Analyst Signature: [signature] **Date:** 8/16/06

Reviewer's Signature: [signature] **Date:** 8/16/06

SIM Semivolatile Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01

Client ID	MNP	DBA	TOT OUT
T4-S3-01-J	57.2%	52.8%	0
T4-S3-01-J DL	D	D	0
T4-S3-01-K	62.3%	76.7%	0
T4-S3-02-G	62.1%	67.3%	0
T4-S3-02-G DL	58.3%	65.7%	0
T4-S3-02-J	70.7%	38.3%	0
MB-082506	83.0%	91.7%	0
LCS-082506	74.3%	89.3%	0
T4-S3-02-K-DUP	70.0%	45.3%	0
T4-S3-02-H	75.7%	50.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-94)	(32-97)
(DBA) = d14-Dibenzo(a,h)anthracene	(27-116)	(21-105)

Prep Method: SW3550B
Log Number Range: 06-15215 to 06-15223

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LCS-082506
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082506
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/25/06
Date Analyzed LCS: 08/31/06 12:37
Instrument/Analyst LCS: FINN3/VTS

Sample Amount LCS: 10.0 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	106	150	70.7%
1-Methylnaphthalene	96.0	150	64.0%
Acenaphthylene	108	150	72.0%
Acenaphthene	112	150	74.7%
Fluorene	114	150	76.0%
Phenanthrene	133	150	88.7%
Anthracene	128	150	85.3%
Fluoranthene	120	150	80.0%
Pyrene	147	150	98.0%
Benzo(a)anthracene	134	150	89.3%
Chrysene	142	150	94.7%
Benzo(b)fluoranthene	142	150	94.7%
Benzo(k)fluoranthene	136	150	90.7%
Benzo(a)pyrene	124	150	82.7%
Indeno(1,2,3-cd)pyrene	122	150	81.3%
Dibenz(a,h)anthracene	128	150	85.3%
Benzo(g,h,i)perylene	135	150	90.0%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	74.3%
d14-Dibenzo(a,h)anthracen	89.3%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JT82MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JT82 Project: T-4 EARLY ACTION

Lab File ID: JT82MB Date Extracted: 08/25/06

Instrument ID: NT1 Date Analyzed: 08/31/06

Matrix: SOLID Time Analyzed: 1212

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JT82LCSS1	JT82LCSS1	JT82SB	08/31/06
02	T4-S3-01-K	JT82B	JT82B	08/31/06
03	T4-S3-02-G	JT82C	JT82C	08/31/06
04	T4-S3-02-J	JT82D	JT82D	08/31/06
05	T4-S3-02-K-DUP	JT82E	JT82E	08/31/06
06	T4-S3-02-H	JT82I	JT82I	08/31/06
07	T4-S3-01-J	JT82A	JT82A	08/31/06
08	T4-S3-01-J	JT82ADL	JT82ADL	09/01/06
09	T4-S3-02-G	JT82CDL	JT82CDL	09/01/06
10				
11				
12				
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18				
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

Instrument ID: NT1 Project: T-4 EARLY ACTION

DFTPP Injection Date: 08/04/06 DFTPP Injection Time: 0953

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	39.7
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	43.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 0.75% of mass 198	2.25
441	Present, but less than mass 443	15.0
442	40.0 - 110.0% of mass 198	86.3
443	15.0 - 24.0% of mass 442	16.6 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		IC0803A	IC0803A	08/04/06	1025
02		IC0803B	IC0803B	08/04/06	1049
03		IC0803C	IC0803C	08/04/06	1114
04		IC0803D	IC0804D	08/04/06	1139
05		IC0803E	IC0805E	08/04/06	1204
06		IC0803F	IC0806F	08/04/06	1228
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

Instrument ID: NT1 Project: T-4 EARLY ACTION

DFTPP Injection Date: 08/31/06 DFTPP Injection Time: 1120

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	44.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	63.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	15.8
365	Greater than 0.75% of mass 198	1.37
441	Present, but less than mass 443	5.8
442	40.0 - 110.0% of mass 198	44.4
443	15.0 - 24.0% of mass 442	8.9 (20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0831	CC0831	08/31/06	1136
02	JT82MBS1	JT82MBS1	JT82MB	08/31/06	1212
03	JT82LCSS1	JT82LCSS1	JT82SB	08/31/06	1237
04	T4-S3-01-K	JT82B	JT82B	08/31/06	1302
05	T4-S3-02-G	JT82C	JT82C	08/31/06	1327
06	T4-S3-02-J	JT82D	JT82D	08/31/06	1949
07	T4-S3-02-K-DUP	JT82E	JT82E	08/31/06	2013
08	T4-S3-02-H	JT82I	JT82I	08/31/06	2127
09	T4-S3-01-J	JT82A	JT82A	08/31/06	2152
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

Instrument ID: NT1 Project: T-4 EARLY ACTION

DFTPP Injection Date: 09/01/06 DFTPP Injection Time: 1113

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.8
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	61.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	17.3
365	Greater than 0.75% of mass 198	1.49
441	Present, but less than mass 443	10.3
442	40.0 - 110.0% of mass 198	59.1
443	15.0 - 24.0% of mass 442	11.5 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0901	CC0901	09/01/06	1130
02	T4-S3-01-J	JT82ADL	JT82ADL	09/01/06	1154
03	T4-S3-02-G	JT82CDL	JT82CDL	09/01/06	1219
04					
05					
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FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JT82 Project: T-4 EARLY ACTION

Cont. Calib. ID: CC0831 Date Analyzed: 08/31/06

Instrument ID: NT1 Time Analyzed: 1136

		IS1(NPT) AREA	#	RT	#	IS2(ANT) AREA	#	RT	#	IS3(PHN) AREA	#	RT	#
	12 HOUR STD	330618		6.82		168464		8.89		226331		10.69	
	UPPER LIMIT	661236		7.32		336928		9.39		452662		11.19	
	LOWER LIMIT	165309		6.32		84232		8.39		113166		10.19	
	CLIENT SAMP. NO.												
01	JT82MBS1	361179		6.83		173904		8.89		230286		10.70	
02	JT82LCSS1	335577		6.83		174080		8.88		233367		10.70	
03	T4-S3-01-K	349209		6.83		174641		8.89		230383		10.70	
04	T4-S3-02-G	370295		6.83		188918		8.89		253874		10.70	
05	T4-S3-02-J	422766		6.83		212795		8.89		276717		10.70	
06	T4-S3-02-K-D	410316		6.83		201612		8.89		262822		10.70	
07	T4-S3-02-H	402666		6.83		201856		8.89		260594		10.70	
08	T4-S3-01-J	386376		6.83		189051		8.89		251476		10.70	
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JT82 Project: T-4 EARLY ACTION

Cont. Calib. ID: CC0831 Date Analyzed: 08/31/06

Instrument ID: NT1 Time Analyzed: 1136

		IS4(CRY) AREA	#	RT	#	IS5(PRY) AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	170894		14.00		178548		15.92					
	UPPER LIMIT	341788		14.50		357096		16.42					
	LOWER LIMIT	85447		13.50		89274		15.42					
	CLIENT SAMP. NO.												
01	JT82MBS1	168570		14.01		163639		15.93					
02	JT82LCSS1	167333		14.00		167780		15.92					
03	T4-S3-01-K	169736		14.00		176989		15.92					
04	T4-S3-02-G	190120		14.01		194281		15.94					
05	T4-S3-02-J	194346		14.01		130199		15.94					
06	T4-S3-02-K-D	189677		14.01		122294		15.93					
07	T4-S3-02-H	188700		14.00		134257		15.93					
08	T4-S3-01-J	188266		14.02		125469		15.95					
09													
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22													

IS4 (CRY) = Chrysene-d12
IS5 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JT82 Project: T-4 EARLY ACTION

Cont. Calib. ID: CC0901 Date Analyzed: 09/01/06

Instrument ID: NT1 Time Analyzed: 1130

		IS1(NPT) AREA	#	RT	#	IS2(ANT) AREA	#	RT	#	IS3(PHN) AREA	#	RT	#
	12 HOUR STD	410913		6.82		204164		8.89		267547		10.70	
	UPPER LIMIT	821826		7.32		408328		9.39		535094		11.20	
	LOWER LIMIT	205456		6.32		102082		8.39		133774		10.20	
	CLIENT SAMP. NO.												
01	T4-S3-01-J	409042		6.82		205791		8.89		271573		10.70	
02	T4-S3-02-G	451430		6.83		220222		8.89		290112		10.70	
03													
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22													

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JT82 Project: T-4 EARLY ACTION

Cont. Calib. ID: CC0901 Date Analyzed: 09/01/06

Instrument ID: NT1 Time Analyzed: 1130

		IS4(CRY) AREA	#	RT	#	IS5(PRY) AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	200701		14.00		204542		15.93					
	UPPER LIMIT	401402		14.50		409084		16.43					
	LOWER LIMIT	100350		13.50		102271		15.43					
	CLIENT SAMP. NO.												
01	T4-S3-01-J	232613		14.01		245812		15.93					
02	T4-S3-02-G	217250		14.01		241010		15.93					
03													
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22													

IS4 (CRY) = Chrysene-d12
IS5 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SIM Semivolatile Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-01-J
SAMPLE

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 21:52
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 33.1%
pH: 6.4

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	25	280	
91-57-6	2-Methylnaphthalene	25	160	
90-12-0	1-Methylnaphthalene	25	70	
208-96-8	Acenaphthylene	25	25	
83-32-9	Acenaphthene	25	2,100	
86-73-7	Fluorene	25	810	
85-01-8	Phenanthrene	25	6,400	E
120-12-7	Anthracene	25	1,900	
206-44-0	Fluoranthene	25	10,000	E
129-00-0	Pyrene	25	11,000	E
56-55-3	Benzo(a)anthracene	25	8,600	E
218-01-9	Chrysene	25	10,000	E
205-99-2	Benzo(b)fluoranthene	25	14,000	E
207-08-9	Benzo(k)fluoranthene	25	11,000	E
50-32-8	Benzo(a)pyrene	25	12,000	E
193-39-5	Indeno(1,2,3-cd)pyrene	25	3,600	E
53-70-3	Dibenz(a,h)anthracene	25	1,400	
191-24-2	Benzo(g,h,i)perylene	25	3,600	E
198-55-0	Perylene	25	3,600	E
92-52-4	Biphenyl	25	35	
581-42-0	2,6-Dimethylnaphthalene	25	58	
832-69-9	1-Methylphenanthrene	25	520	
192-97-2	Benzo(e)pyrene	25	7,500	E
2245-38-7	2,3,5-Trimethylnaphthalene	25	52	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	57.2%
d14-Dibenzo(a,h)anthracen	52.8%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060831.b/jt82a.d
Lab Smp Id: JT82A Client Smp ID: T4-S3-01-J
Inj Date : 31-AUG-2006 21:52
Operator : VTS Inst ID: nt1.i
Smp Info : JT82A,5
Misc Info : 06-15215
Comment : 1ul Injection
Method : /chem3/nt1.i/20060831.b/simpna.m
Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 17
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	14.90000	Weight of sample extracted (g)
M	33.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.832	6.823	(1.000)	386376	2.00000	
	2 Naphthalene	128	6.849	6.847	(1.003)	211268	1.09623	274.9
$	3 2-Methylnaphthalene-d10	152	7.582	7.580	(1.110)	34179	0.34344	86.14
	4 2-Methylnaphthalene	142	7.624	7.621	(1.116)	73526	0.64422	161.6
	5 1-Methylnaphthalene	142	7.754	7.751	(1.135)	33942	0.28352	71.11
	7 Acenaphthylene	152	8.705	8.703	(0.979)	16383	0.10452	26.21(M)
*	8 Acenaphthene-d10	164	8.888	8.886	(1.000)	189051	2.00000	
	9 Acenaphthene	153	8.924	8.921	(1.004)	786574	8.47354	2125
	10 Dibenzofuran	168	9.113	9.111	(1.025)	170364	1.24597	312.5
	11 Fluorene	166	9.539	9.536	(1.073)	343978	3.23154	810.5
*	15 Phenanthrene-d10	188	10.697	10.694	(1.000)	251476	2.00000	
	16 Phenanthrene	178	10.732	10.724	(1.003)	3327866	25.7817	6466 E
	17 Anthracene	178	10.786	10.777	(1.008)	957099	7.41978	1861
	19 Fluoranthene	202	12.234	12.213	(1.144)	5344960	40.5976	10180 E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.523	12.503	(0.893)	5426821	44.8902	11260	E
	22 Benzo(a)anthracene	228	14.001	13.980	(0.999)	3905376	34.4477	8639	E
*	23 Chrysene-d12	240	14.018	14.004	(1.000)	188266	2.00000		
	24 Chrysene	228	14.054	14.034	(1.003)	4171917	39.8965	10010	E
	28 Benzo(b)fluoranthene	252	15.390	15.352	(0.965)	3827558	54.0526	13560	E
	29 Benzo(k)fluoranthene	252	15.413	15.387	(0.967)	3315918	43.9240	11020 (H)	E
	30 Benzo(a)pyrene	252	15.874	15.836	(0.996)	3328602	48.2412	12100	E
*	31 Perylene-d12	264	15.945	15.925	(1.000)	125469	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.878	17.834	(1.121)	1144060	14.4181	3616	E
$	32 Dibenz(a,h)anthrancene-d14	292	17.777	17.763	(1.115)	15220	0.31697	79.50	
	34 Dibenz(a,h)anthracene	278	17.854	17.828	(1.120)	359817	5.55080	1392	
	35 Benzo(g,h,i)perylene	276	18.445	18.401	(1.157)	954840	14.4762	3631	E
	48 Biphenyl	154	8.161	8.159	(0.918)	16354	0.14001	35.11	
	49 2,6-Dimethylnaphthalene	156	8.351	8.348	(0.939)	20862	0.22677	56.87	
	50 2,3,5-Trimethylnaphthalene	170	9.373	9.371	(1.055)	15924	0.21132	53.00	
	51 1-Methylphenanthrene	192	11.501	11.492	(0.820)	161377	2.09408	525.2	
	52 Benzo(e)pyrene	252	15.791	15.759	(0.990)	2279896	29.8508	7487	E
	53 Perylene	252	15.986	15.960	(1.003)	1047091	14.6013	3662	E

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

9-1-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82a.d
Lab Smp Id: JT82A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15215

Calibration Date: 31-AUG-2006
Calibration Time: 11:36
Client Smp ID: T4-S3-01-J
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	330618	165309	661236	386376	16.86
8 Acenaphthene-d10	168464	84232	336928	189051	12.22
15 Phenanthrene-d10	226331	113166	452662	251476	11.11
23 Chrysene-d12	170894	85447	341788	188266	10.17
31 Perylene-d12	178548	89274	357096	125469	-29.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.12
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.03
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.02
23 Chrysene-d12	14.00	13.50	14.50	14.02	0.10
31 Perylene-d12	15.92	15.42	16.42	15.95	0.13

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

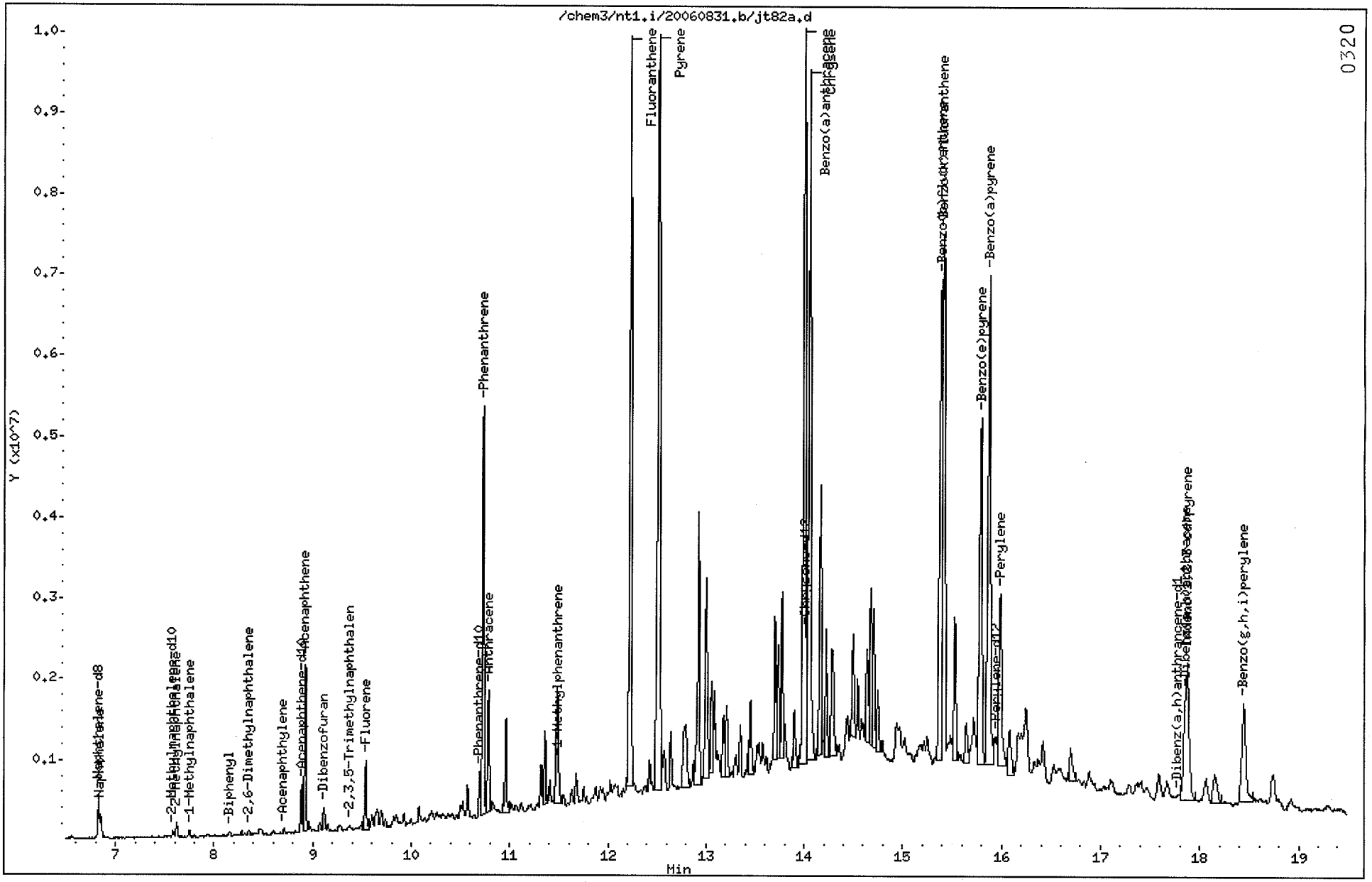
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82A
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15215

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-01-J
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.5	86.14	57.24	32-97
$ 32 Dibenz(a,h)anthran	150.5	79.50	52.83	21-105

Data File: /chem3/nt1.i/20060831.b/jt82a.d
Date : 31-AUG-2006 21:52
Client ID: T4-S3-01-J
Sample Info: JT82A,5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

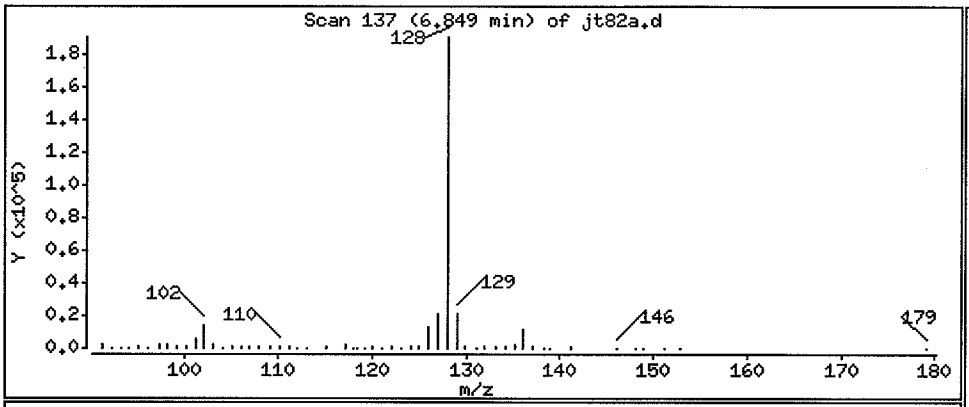
Operator: VTS

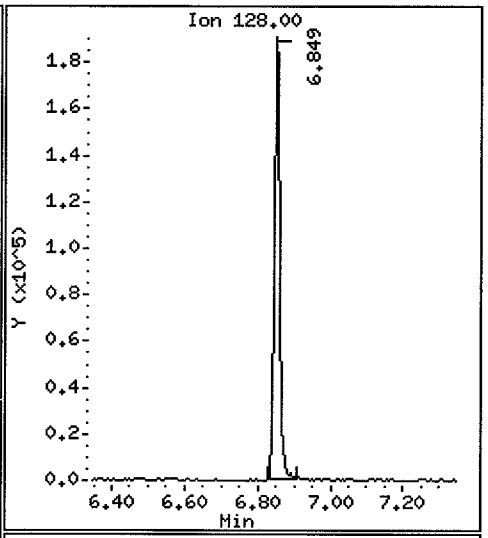
Column phase: ZB-5

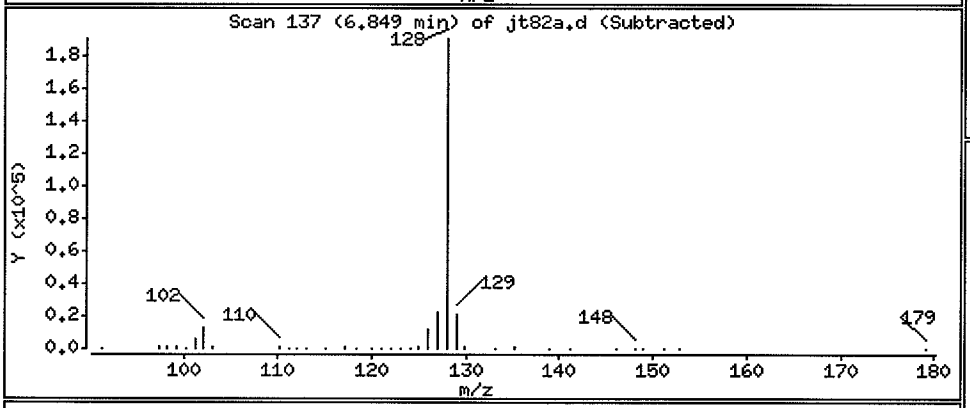
Column diameter: 0.25

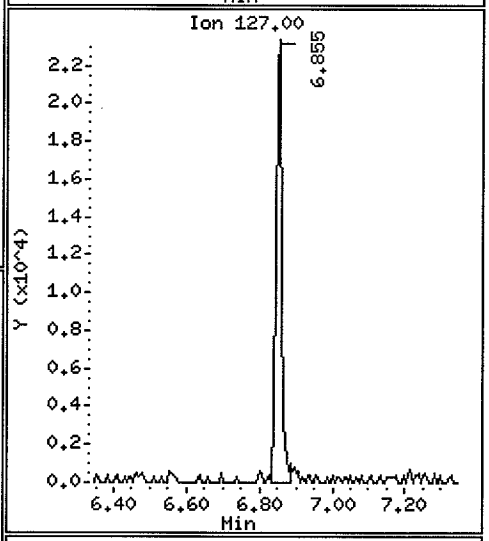
2 Naphthalene

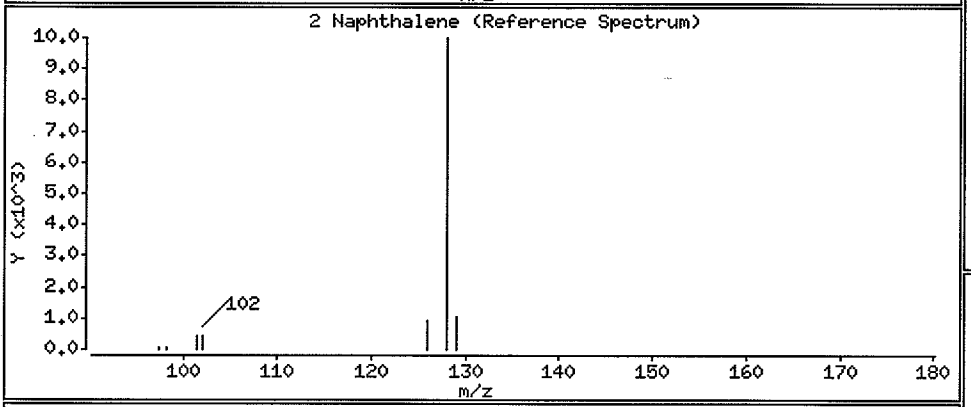
Concentration: 274.9 ug/kg

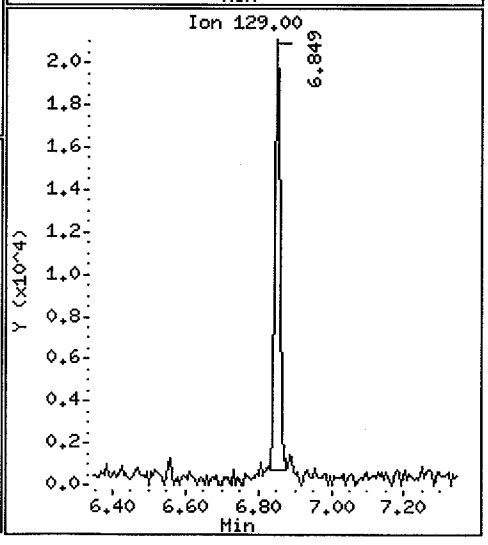


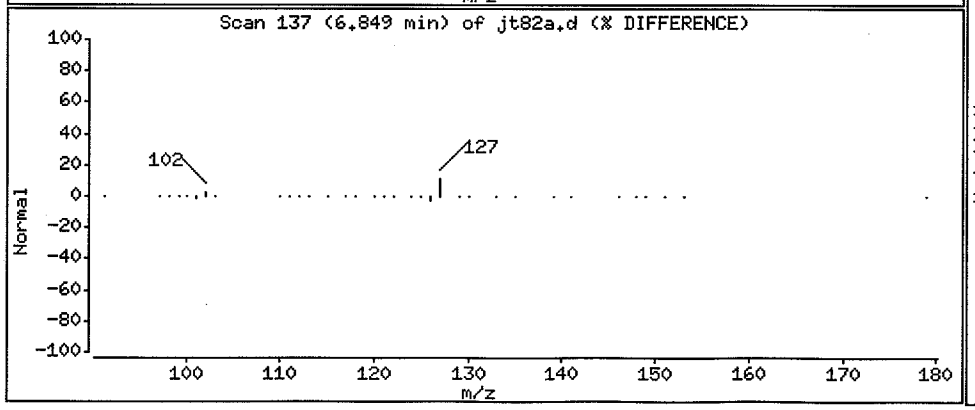












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

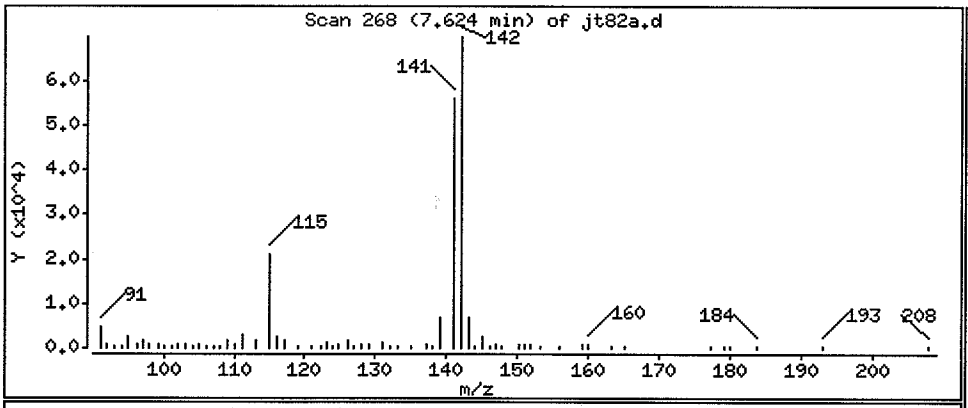
Operator: VTS

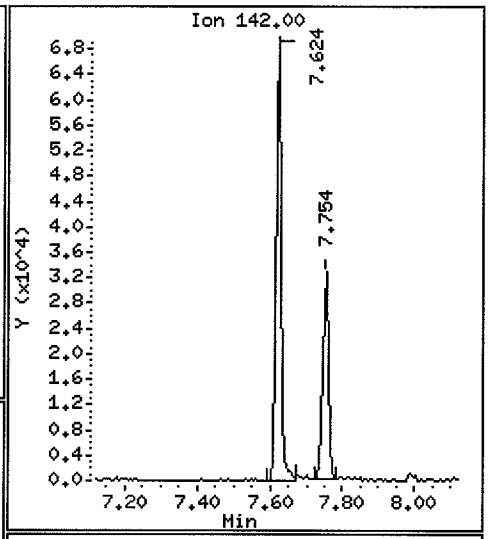
Column phase: ZB-5

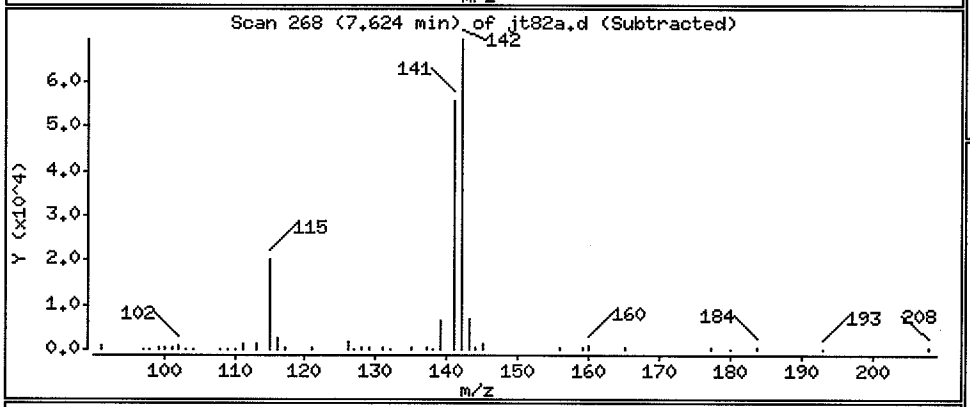
Column diameter: 0.25

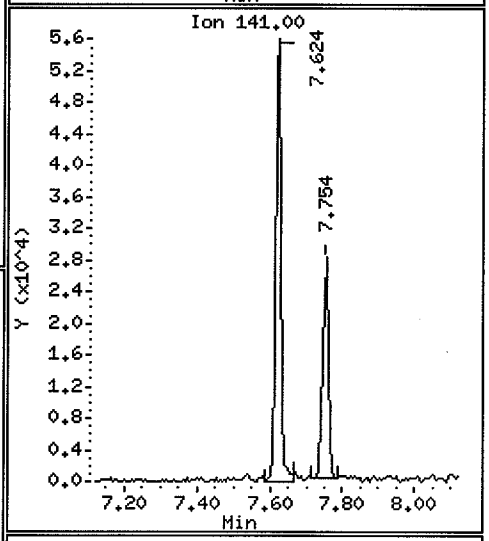
4 2-Methylnaphthalene

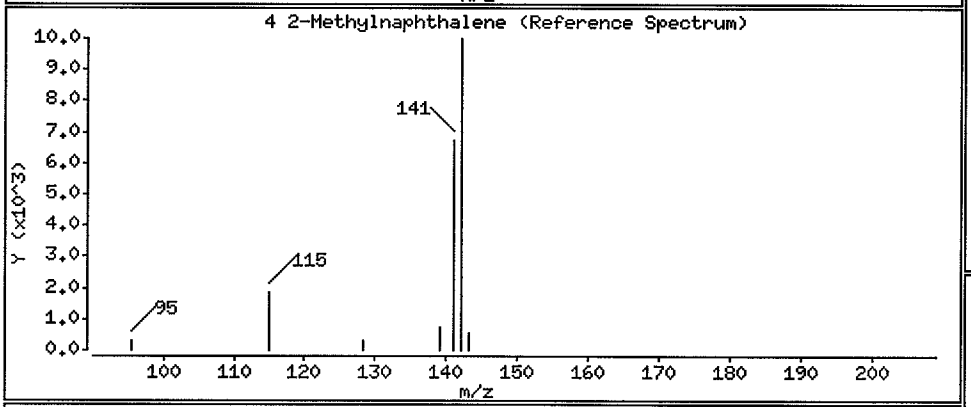
Concentration: 161.6 ug/kg

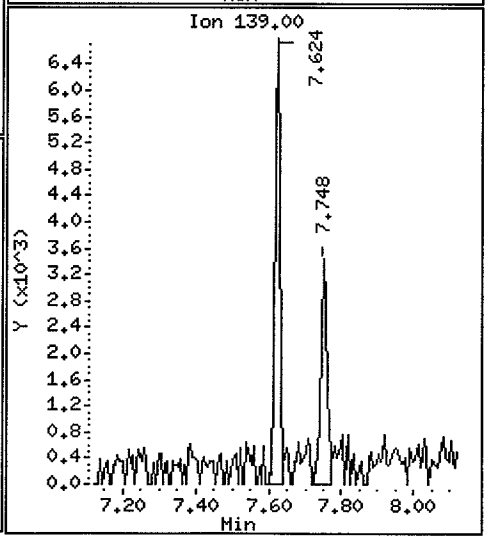


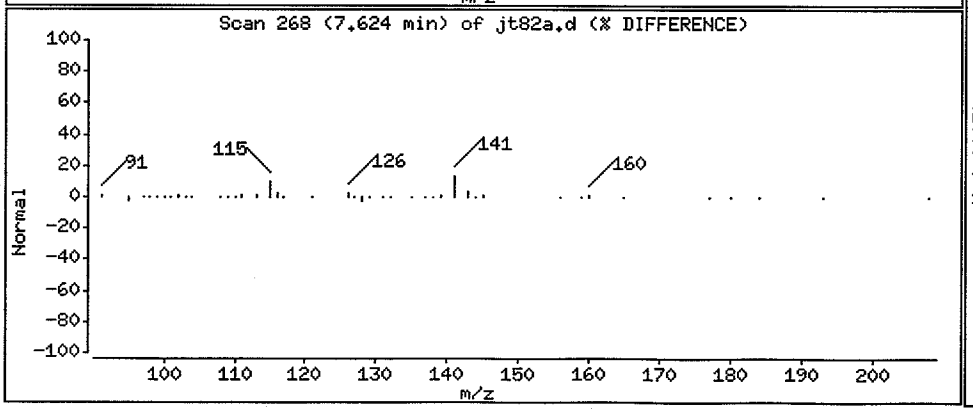












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

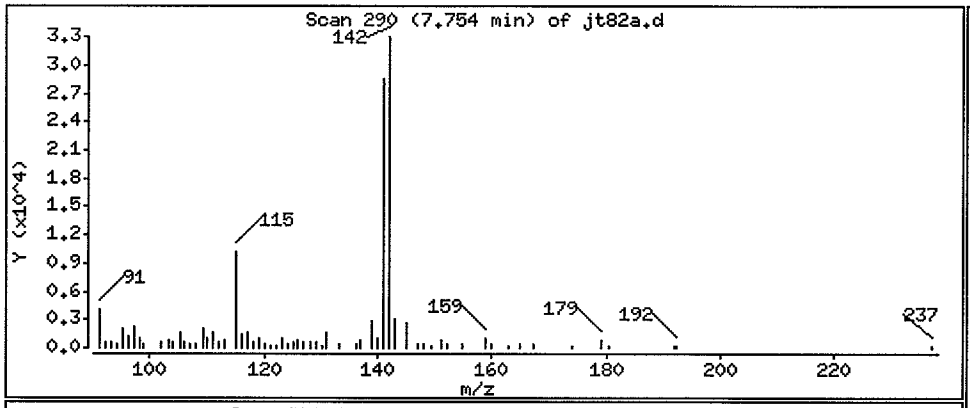
Operator: VTS

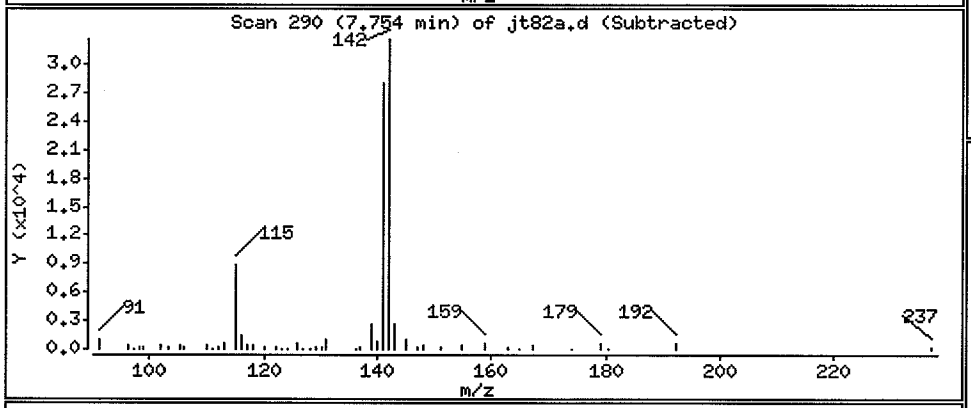
Column phase: ZB-5

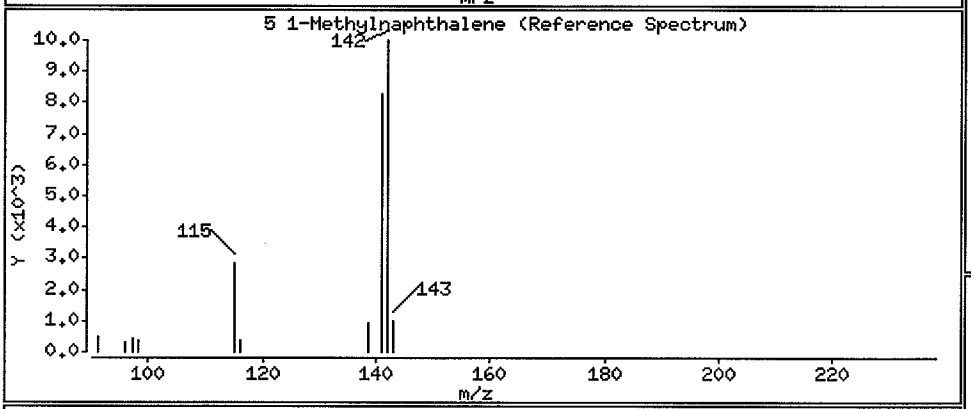
Column diameter: 0.25

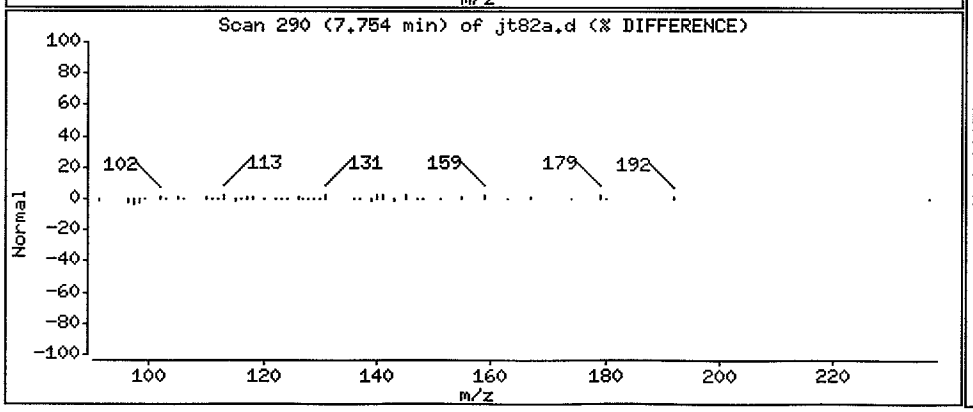
5 1-Methylnaphthalene

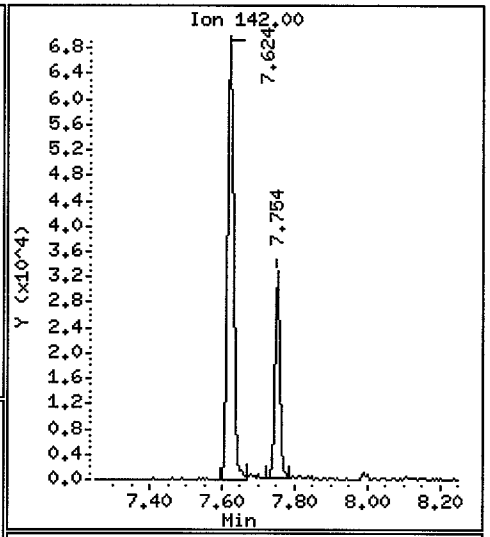
Concentration: 71.11 ug/kg

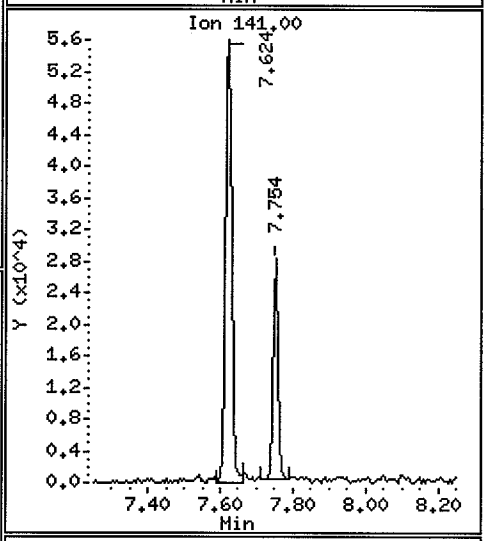


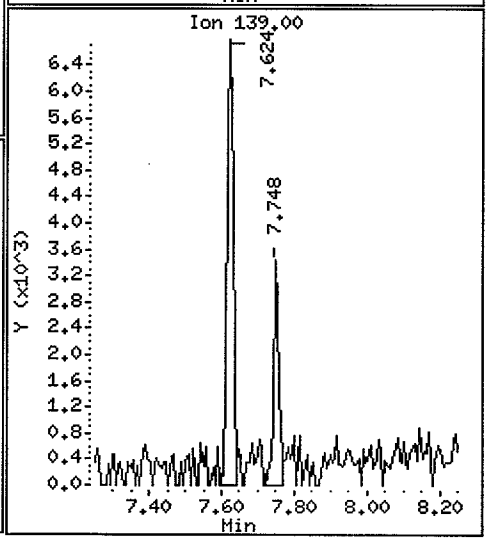












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

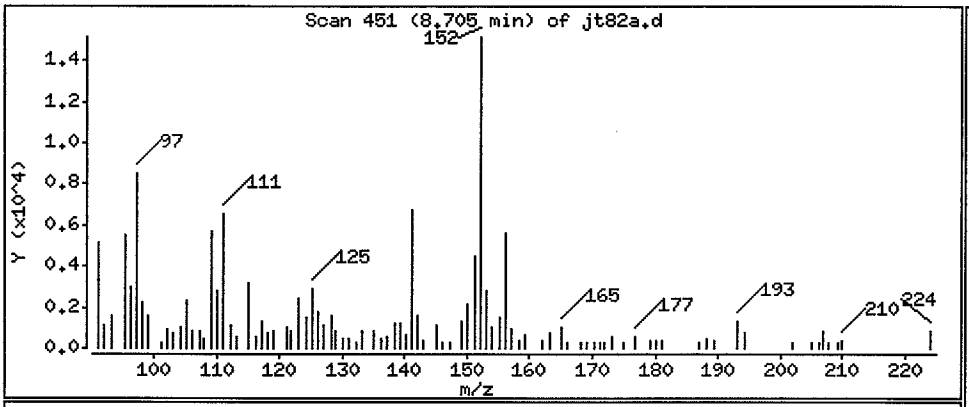
Operator: VTS

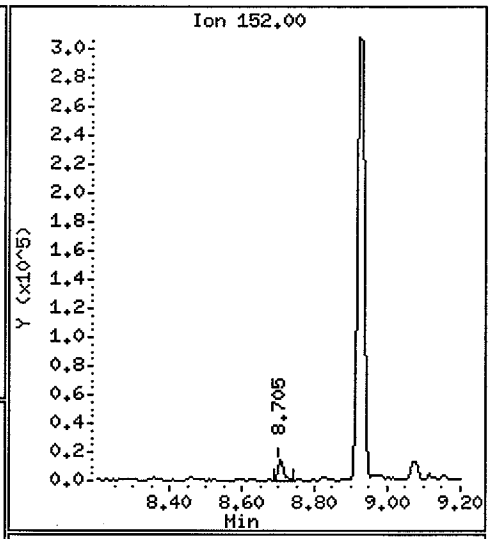
Column phase: ZB-5

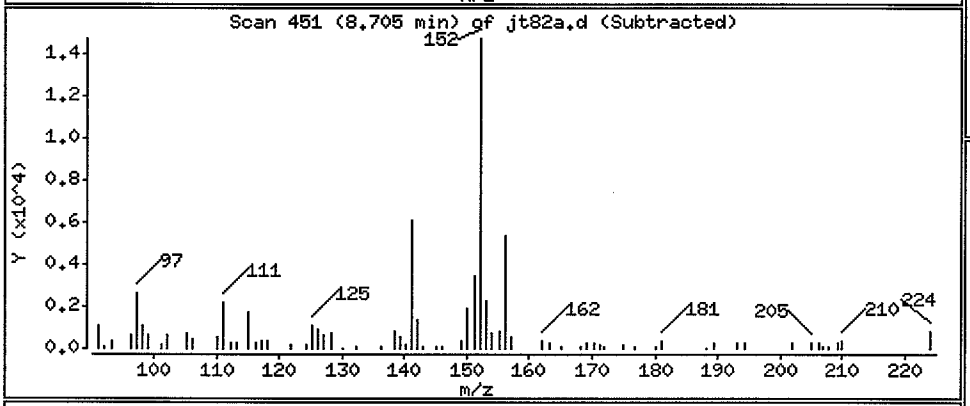
Column diameter: 0.25

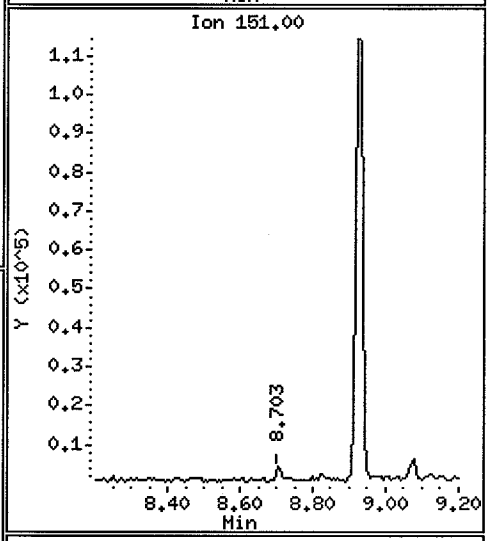
7 Acenaphthylene

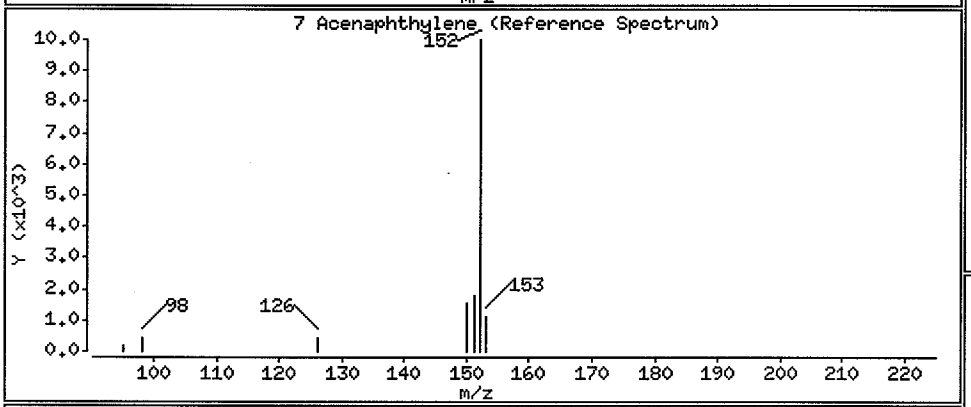
Concentration: 26.21 ug/kg

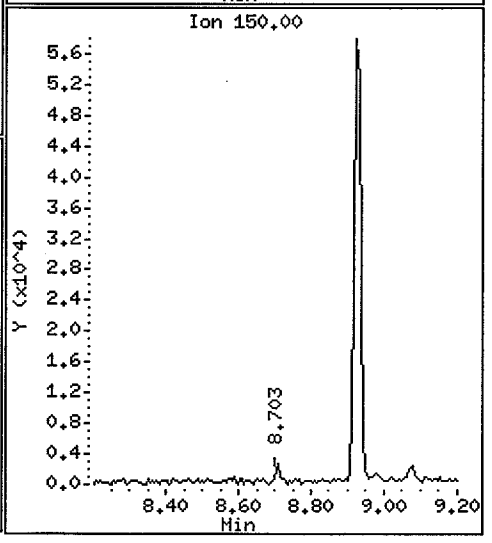


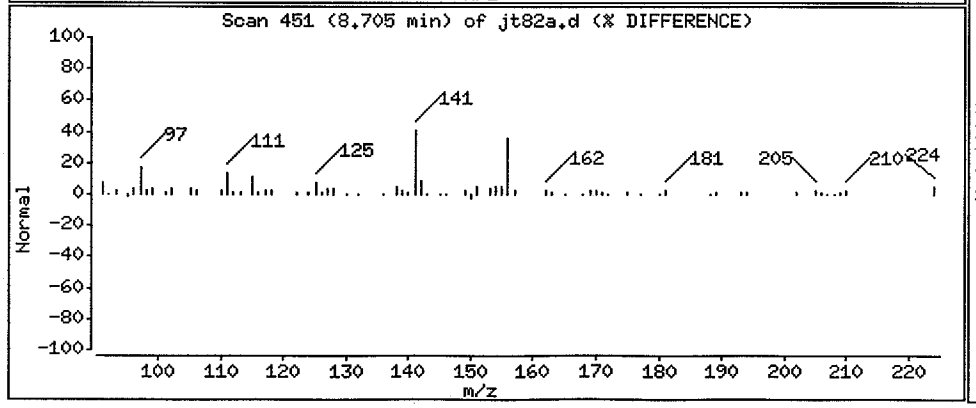












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

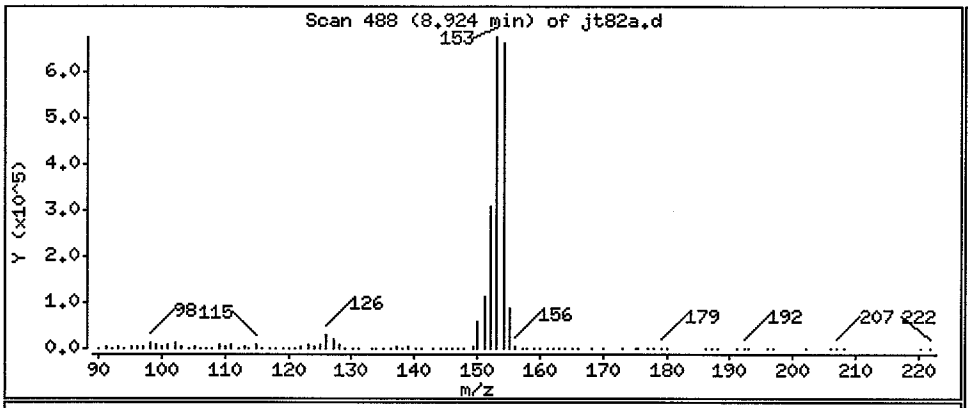
Operator: VTS

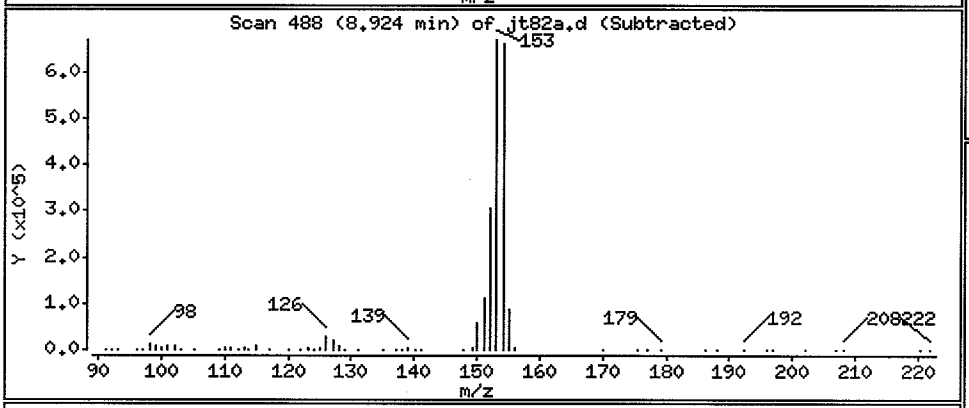
Column phase: ZB-5

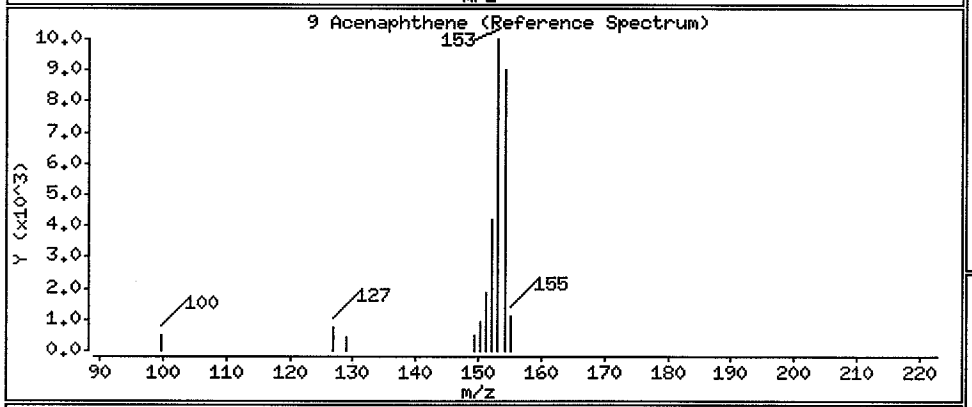
Column diameter: 0.25

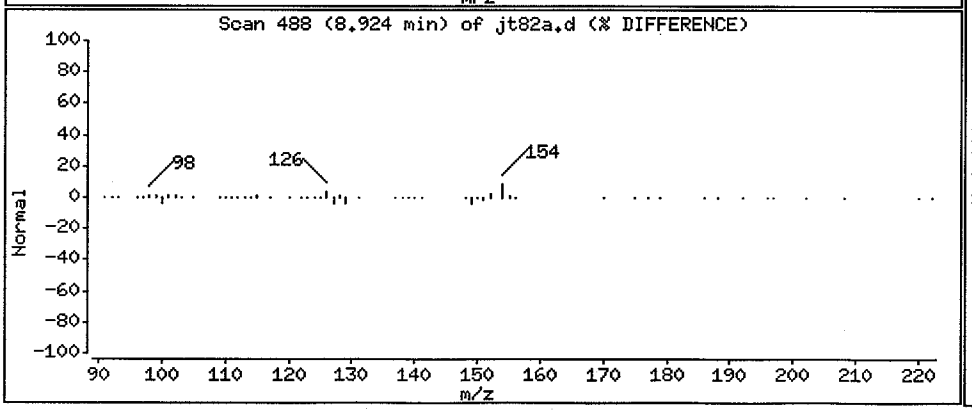
9 Acenaphthene

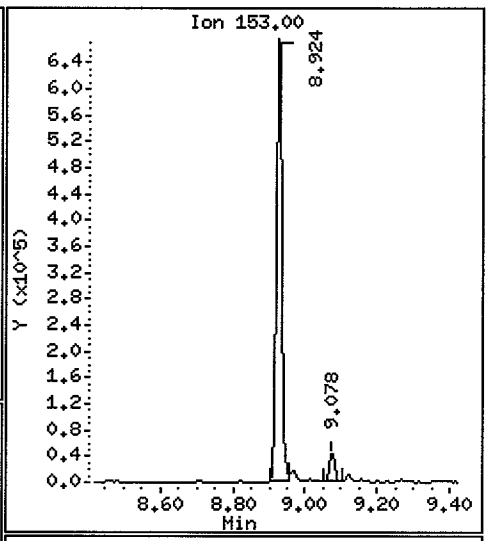
Concentration: 2125 ug/kg

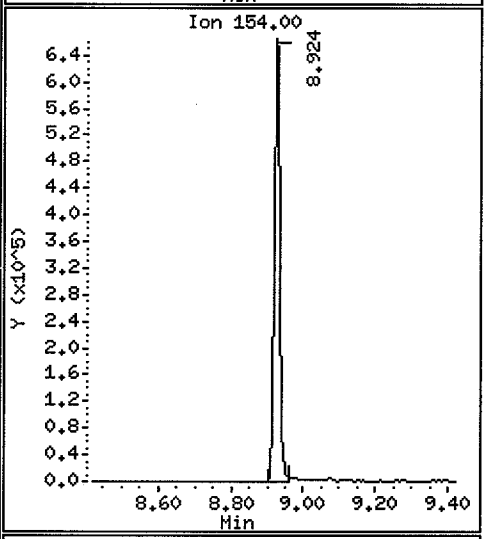


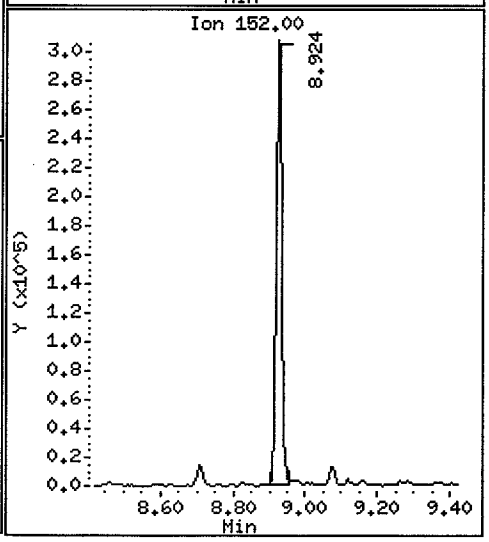












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

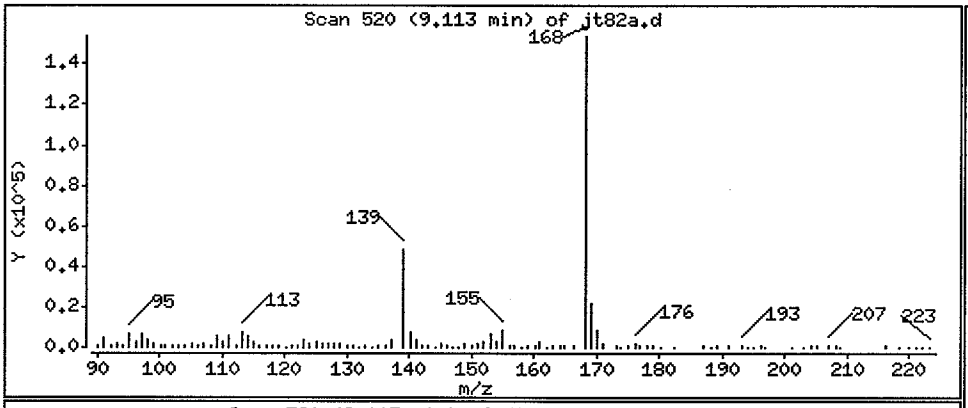
Operator: VTS

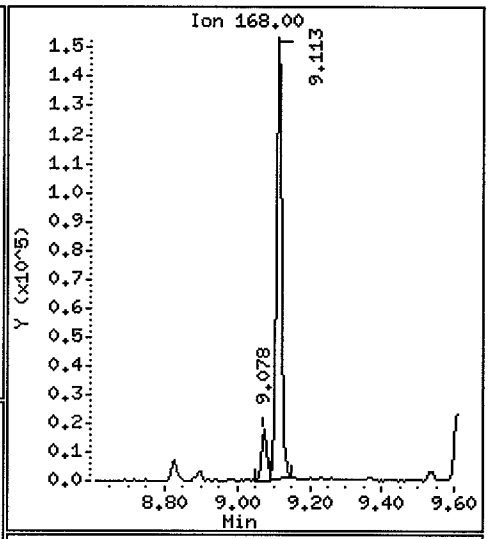
Column phase: ZB-5

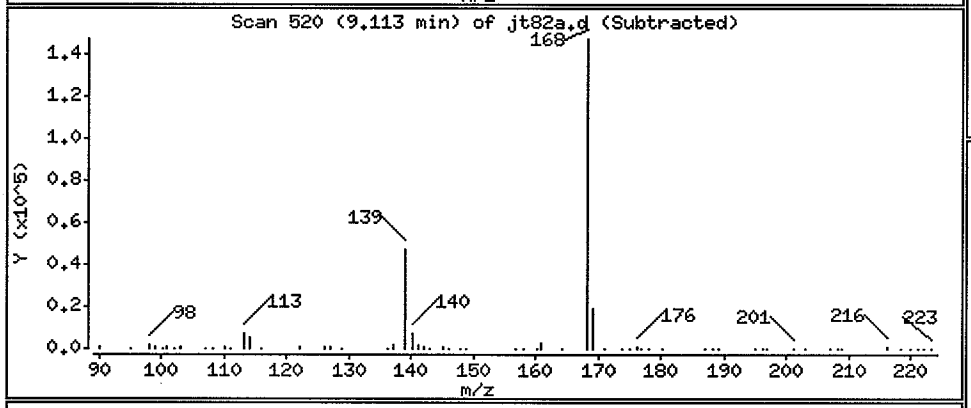
Column diameter: 0.25

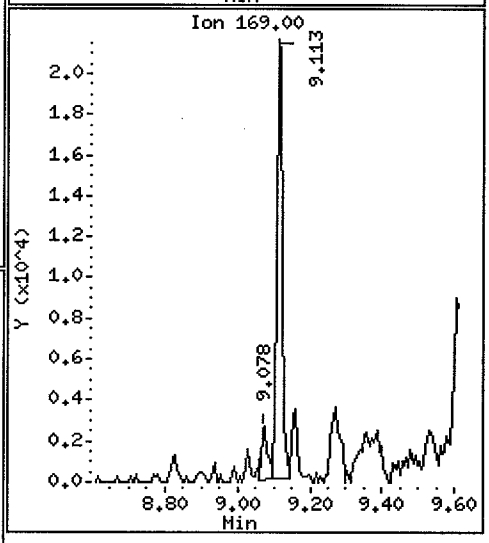
10 Dibenzofuran

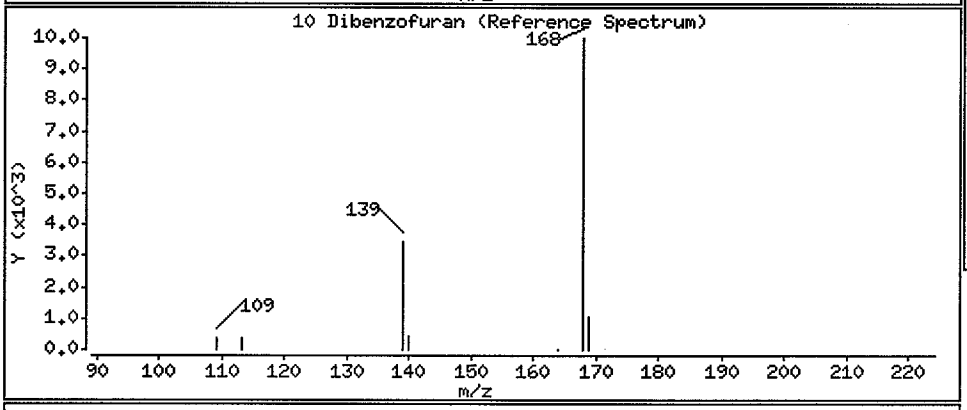
Concentration: 312.5 ug/kg

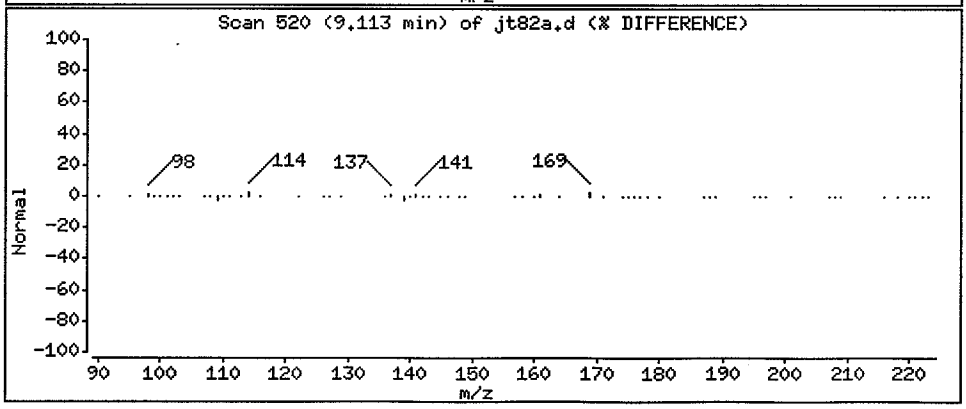












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

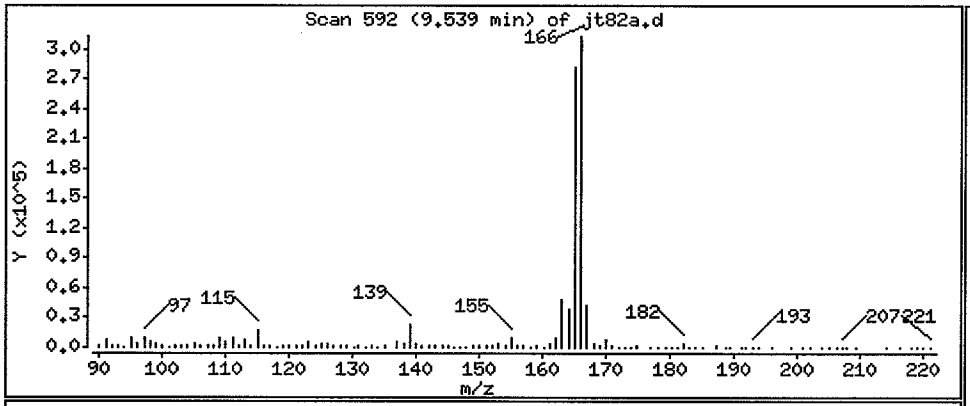
Operator: VTS

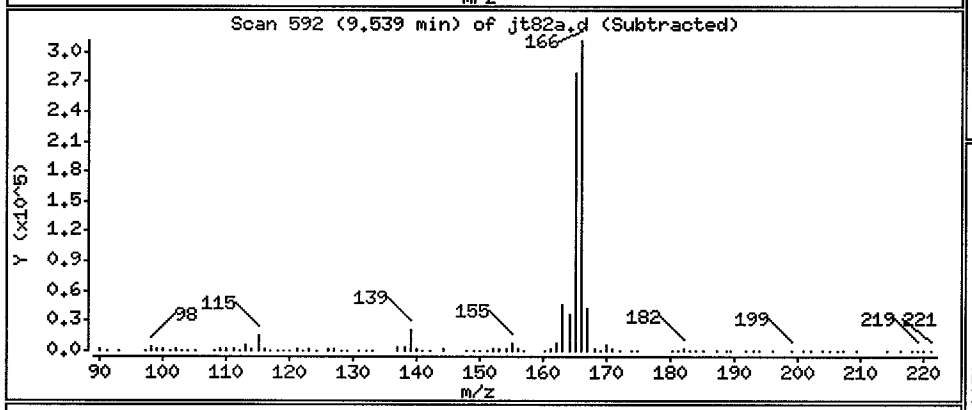
Column phase: ZB-5

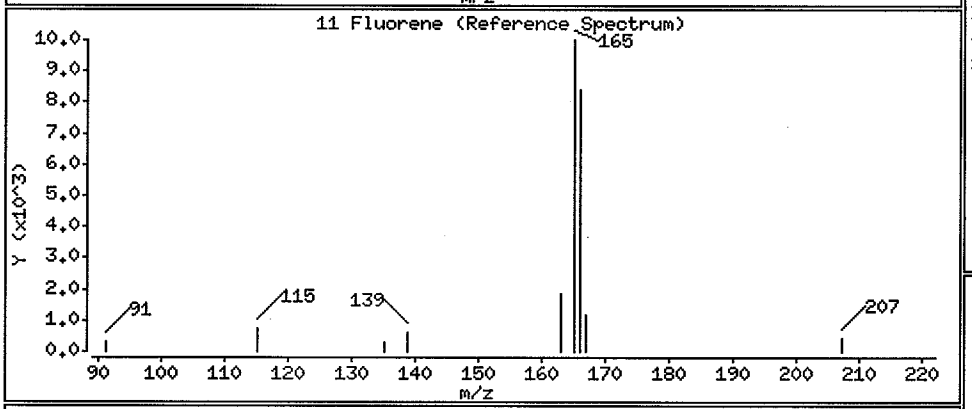
Column diameter: 0.25

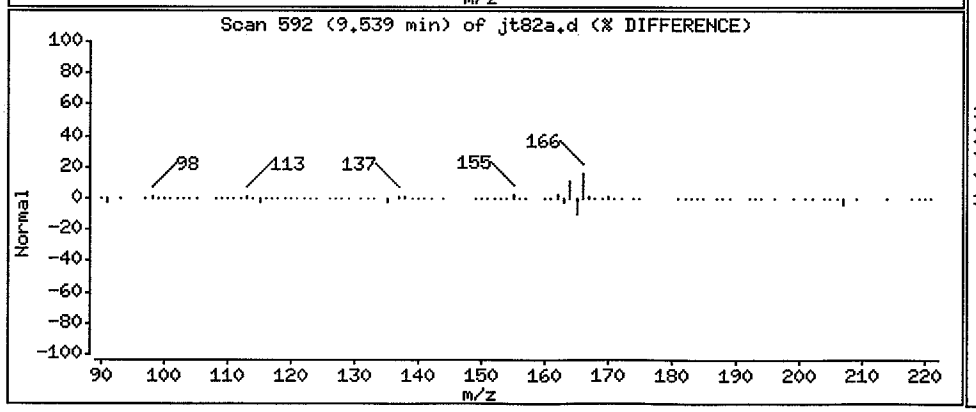
11 Fluorene

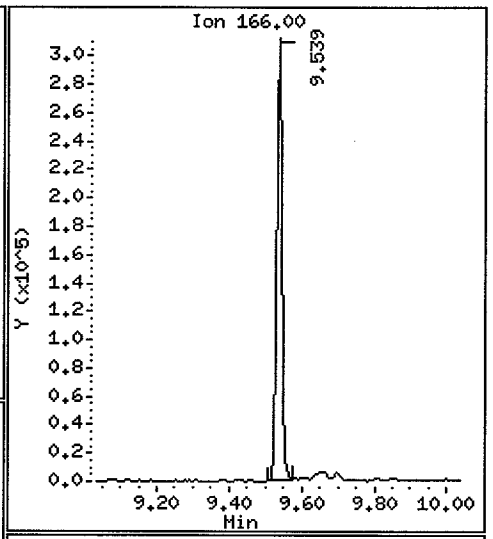
Concentration: 810.5 ug/kg

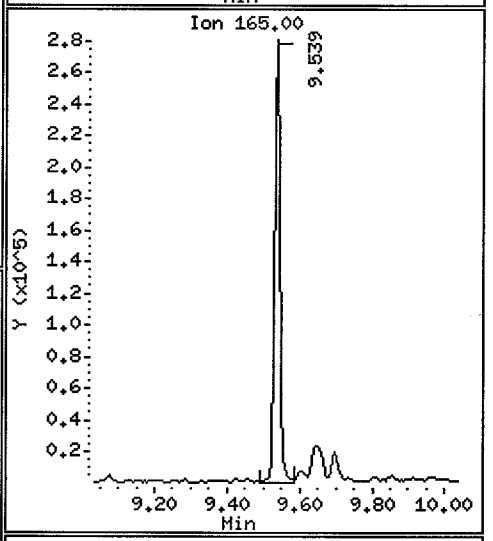


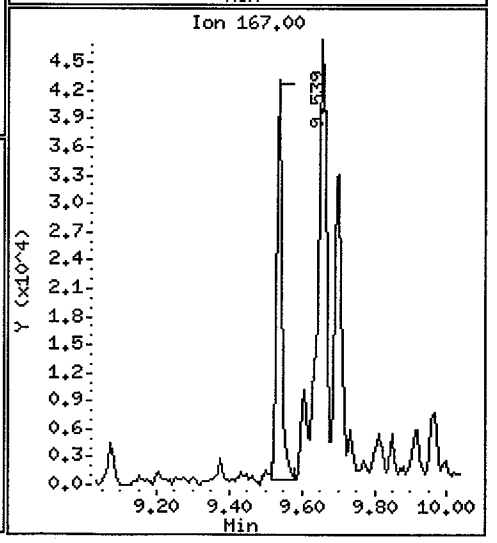












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

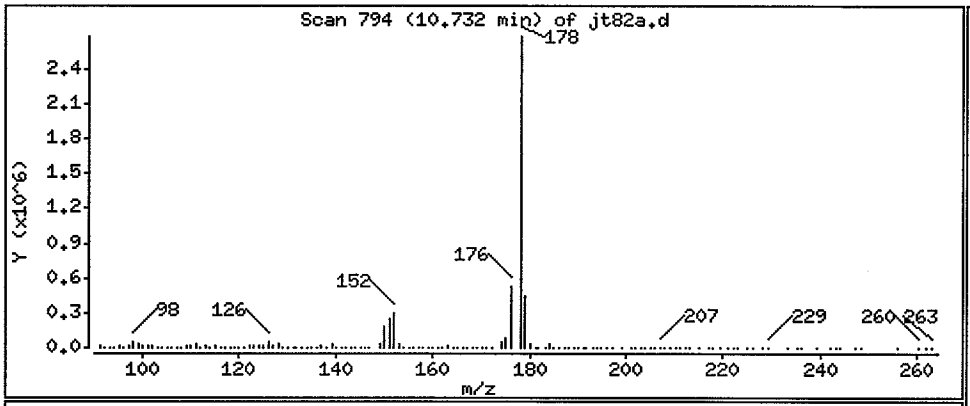
Operator: VTS

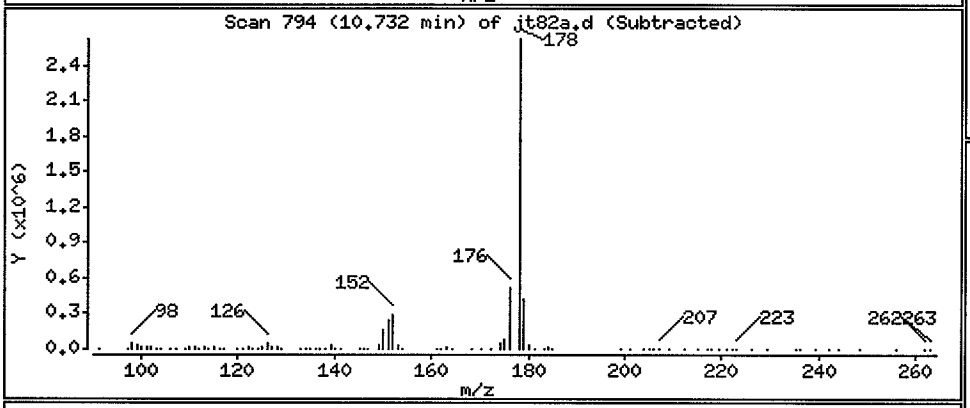
Column phase: ZB-5

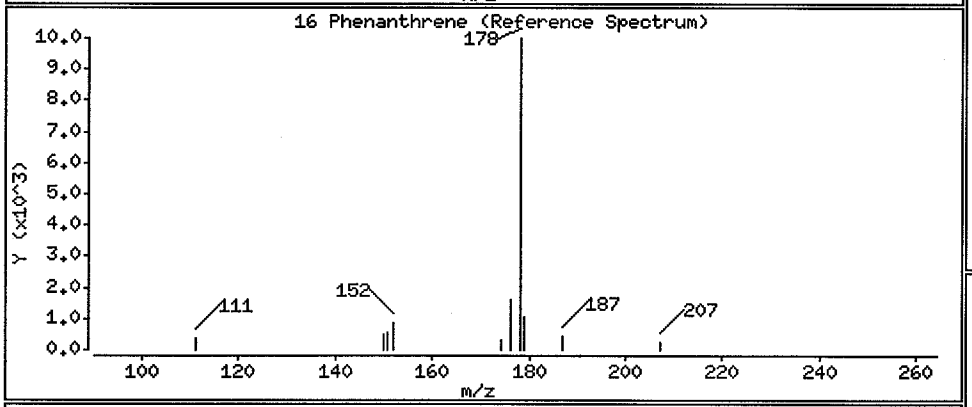
Column diameter: 0.25

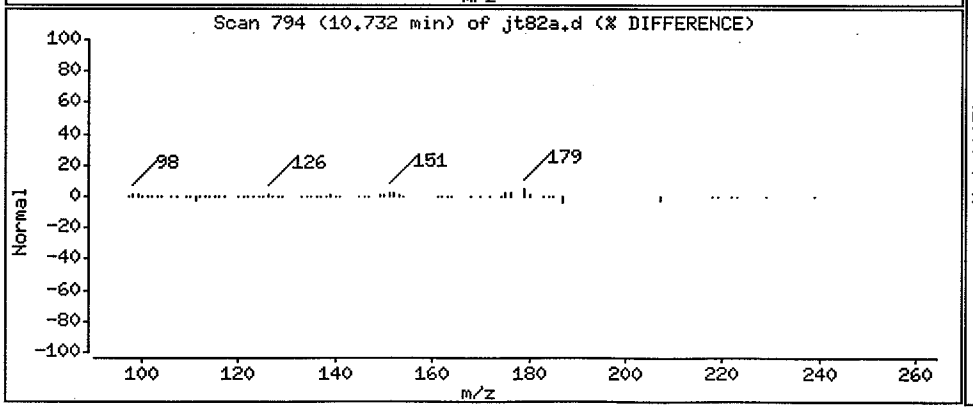
16 Phenanthrene

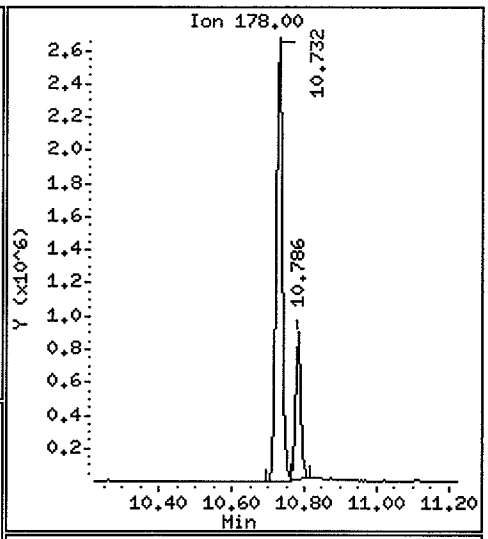
Concentration: 6466 ug/kg

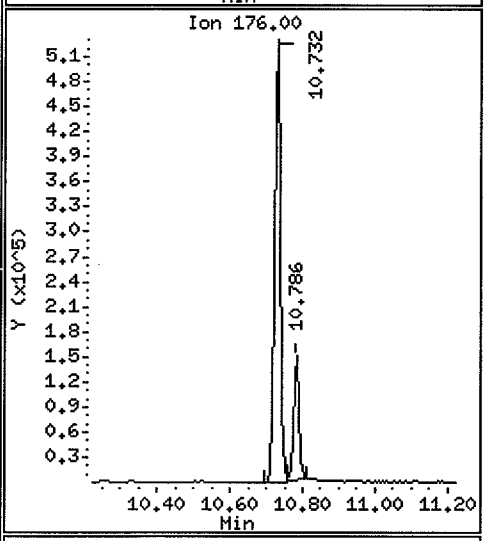


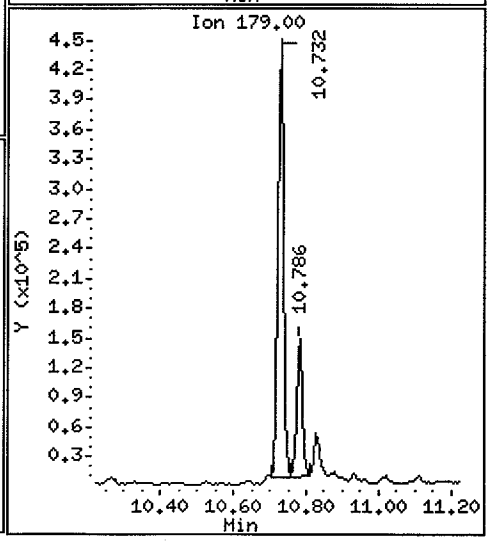












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

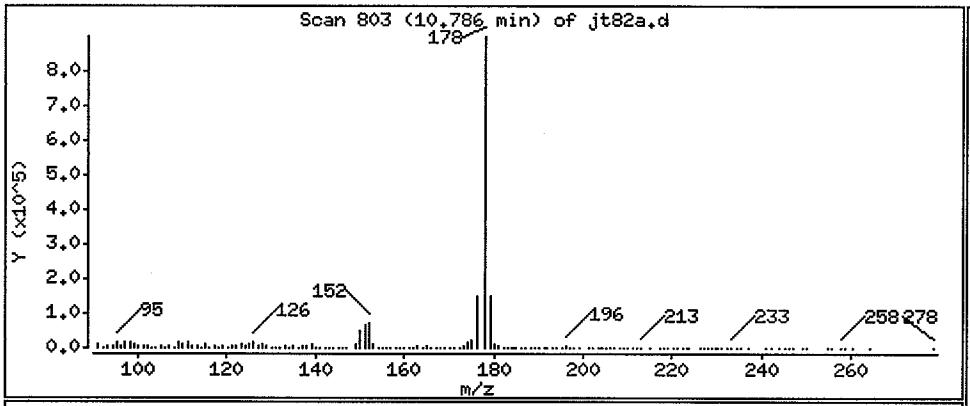
Operator: VTS

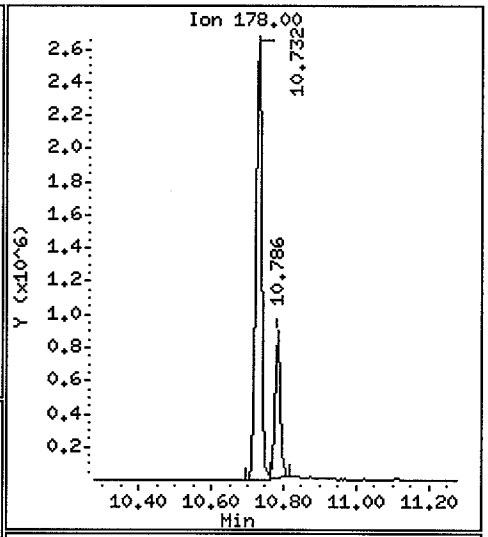
Column phase: ZB-5

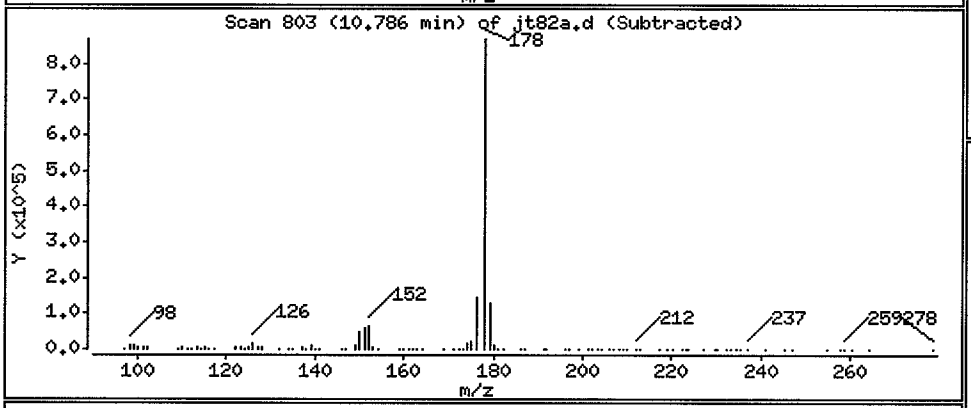
Column diameter: 0.25

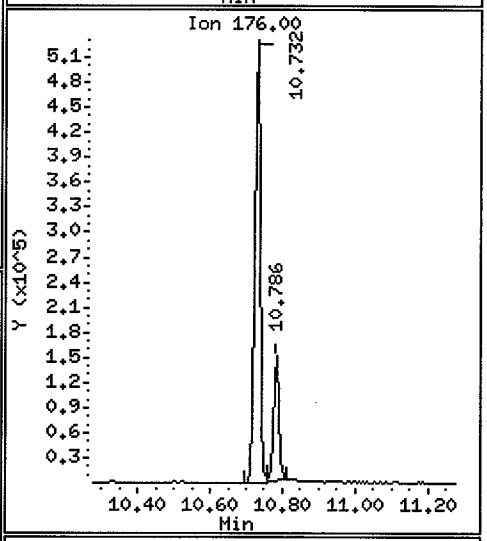
17 Anthracene

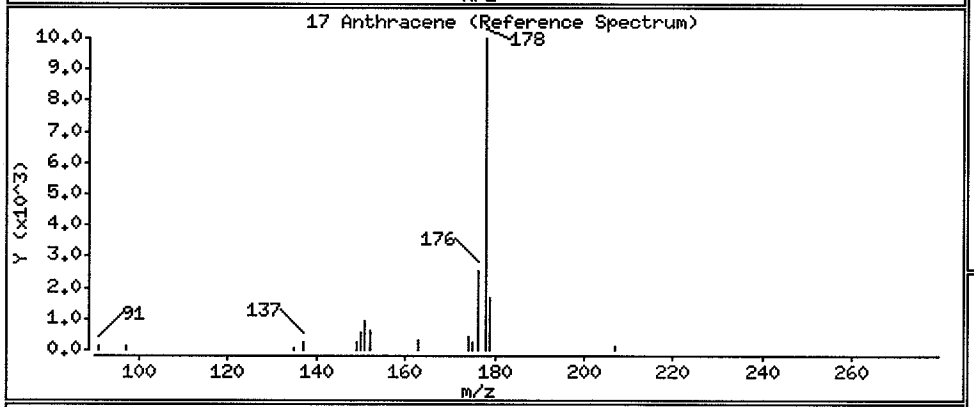
Concentration: 1861 ug/kg

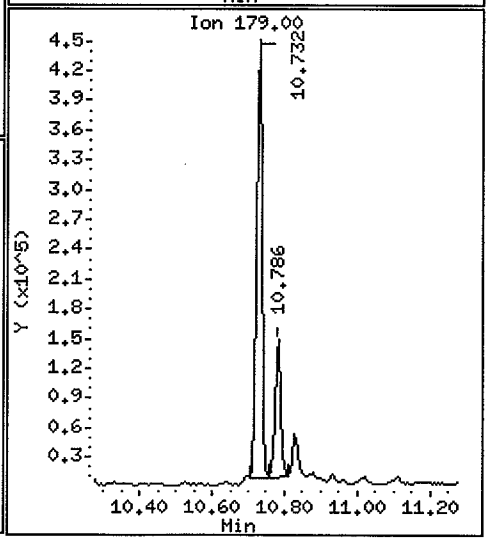


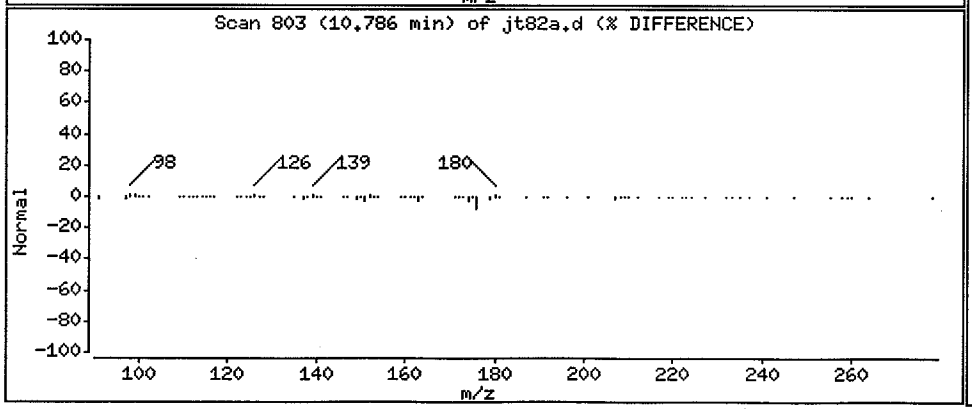












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

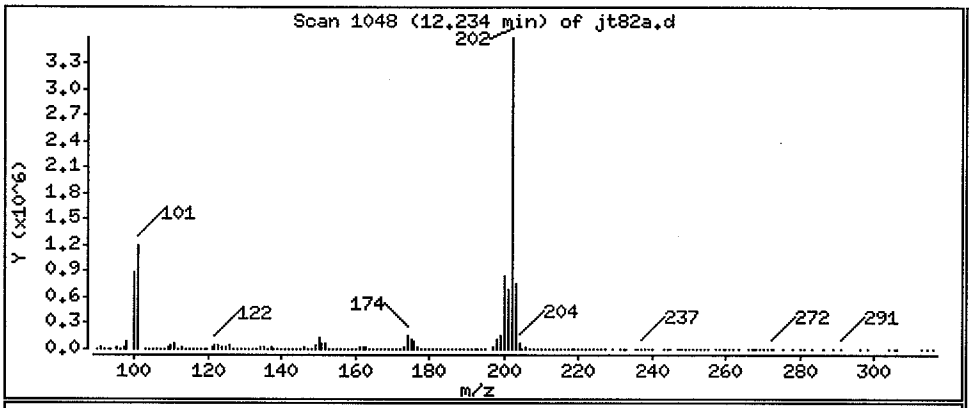
Operator: VTS

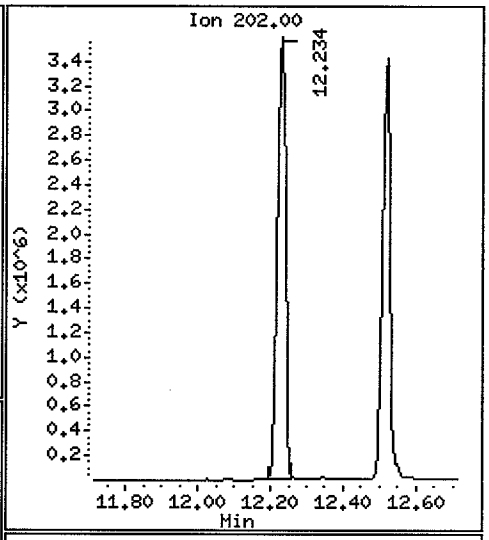
Column phase: ZB-5

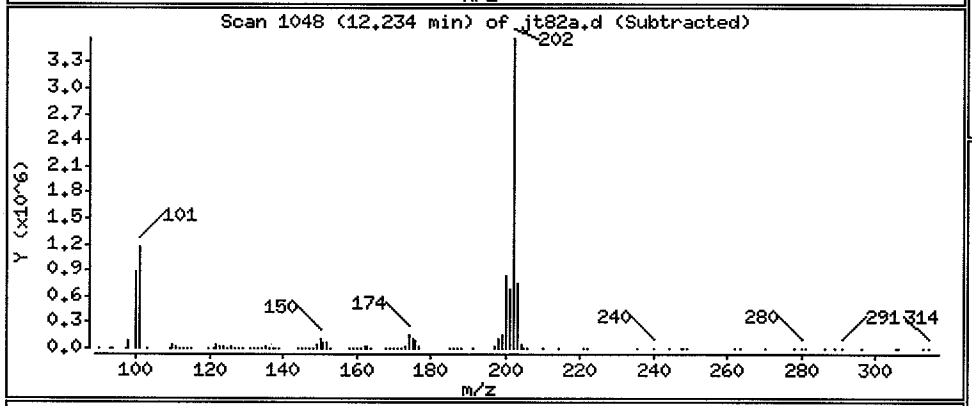
Column diameter: 0.25

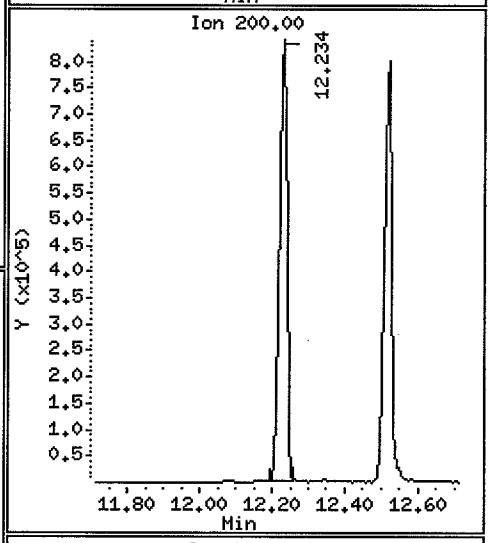
19 Fluoranthene

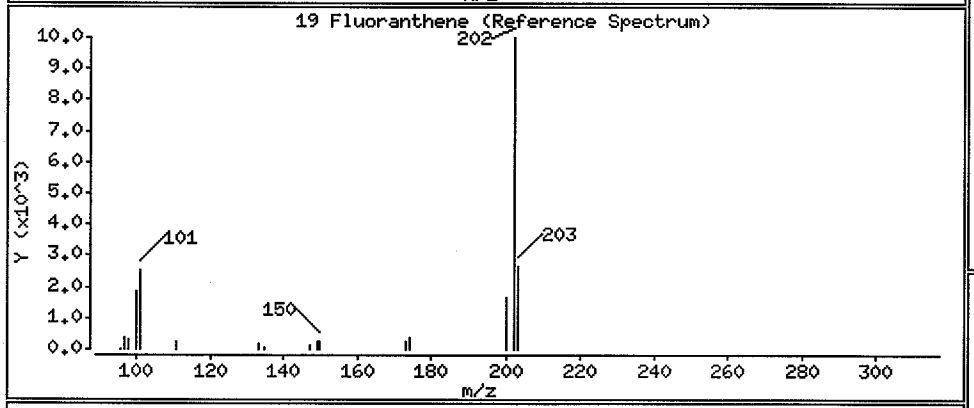
Concentration: 10180 ug/kg

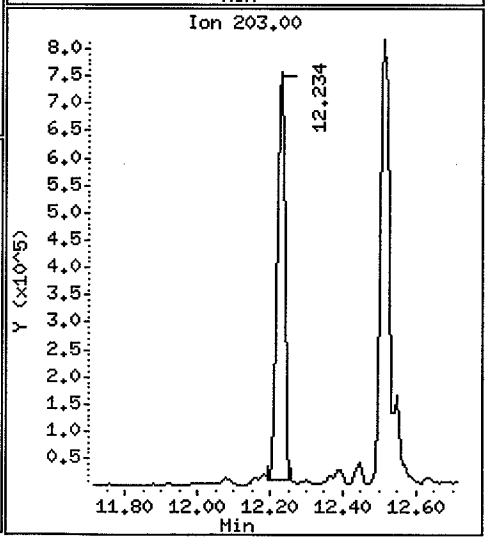


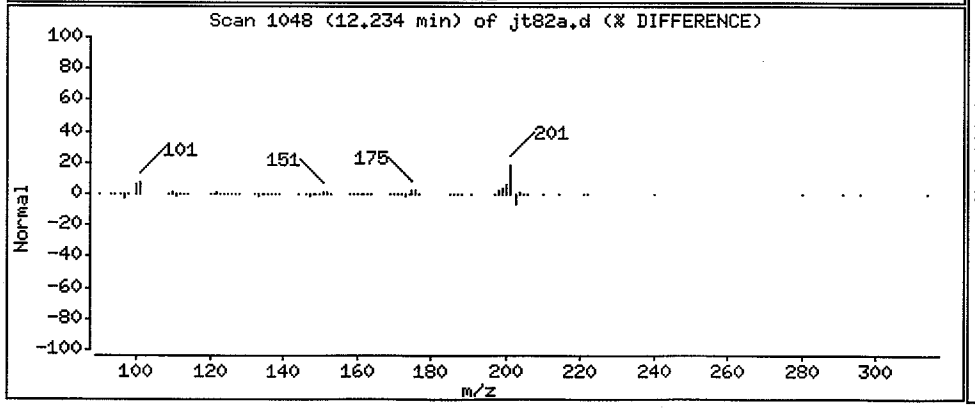












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

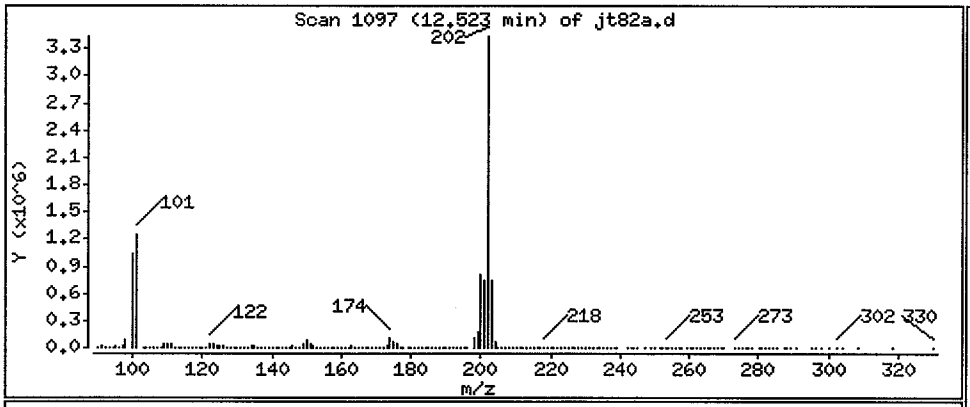
Operator: VTS

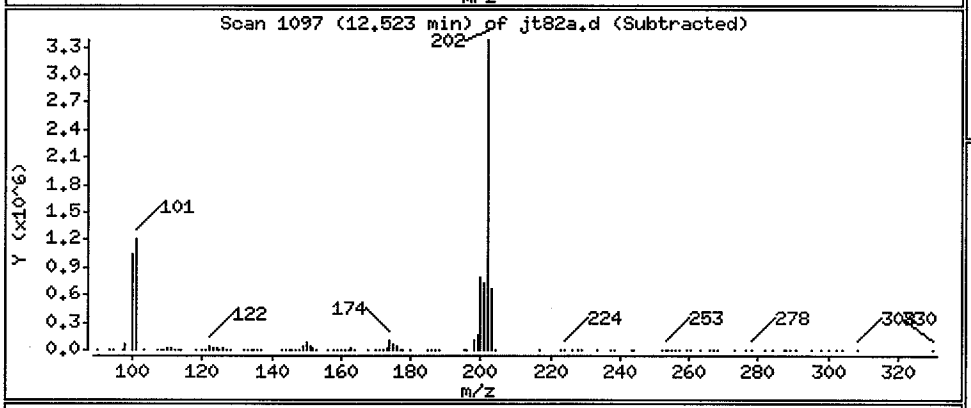
Column phase: ZB-5

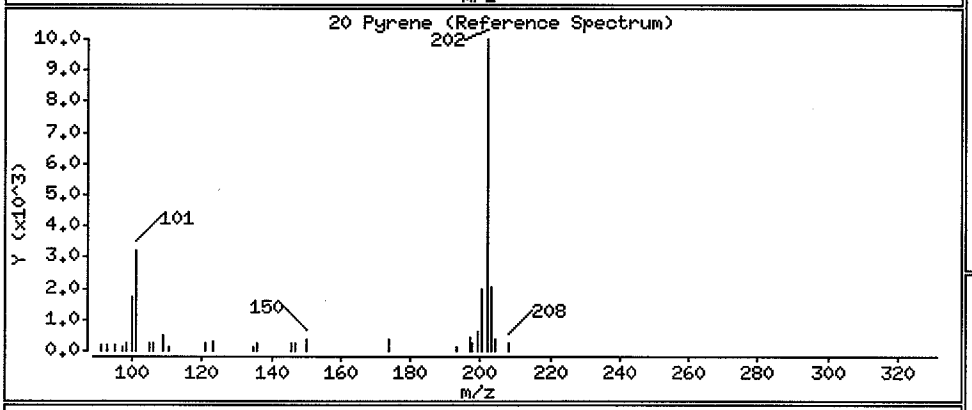
Column diameter: 0.25

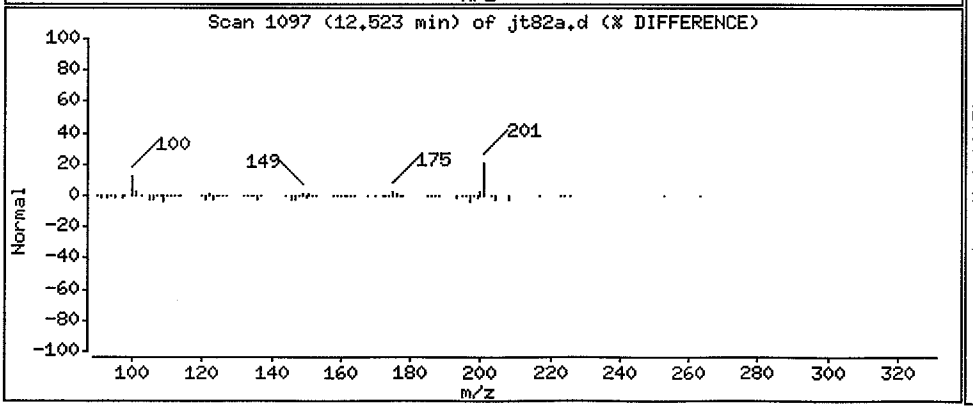
20 Pyrene

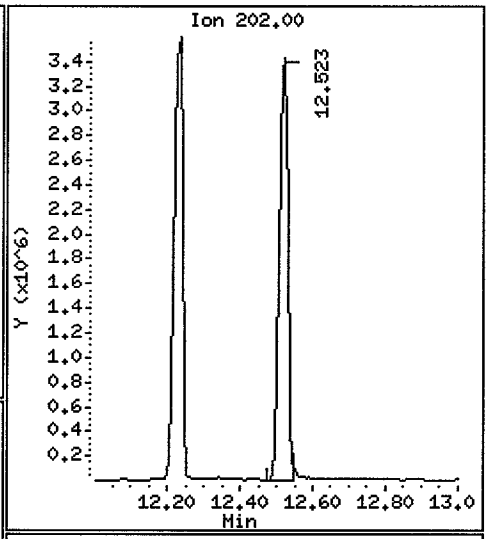
Concentration: 11260 ug/kg

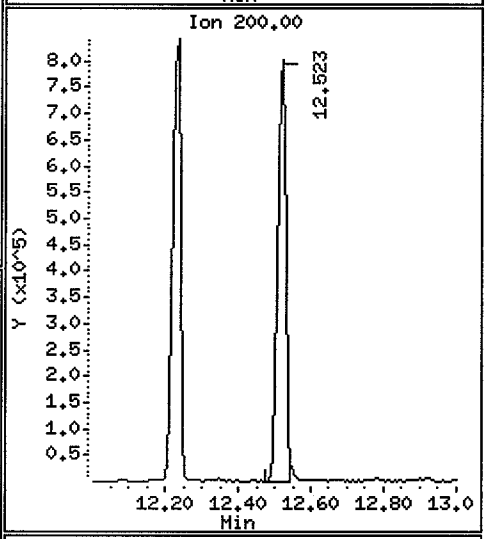


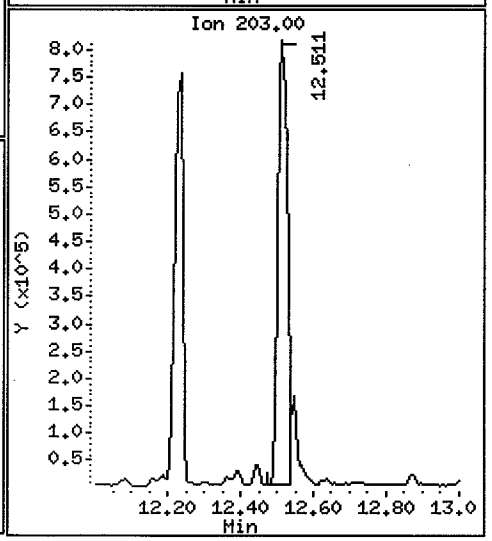












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

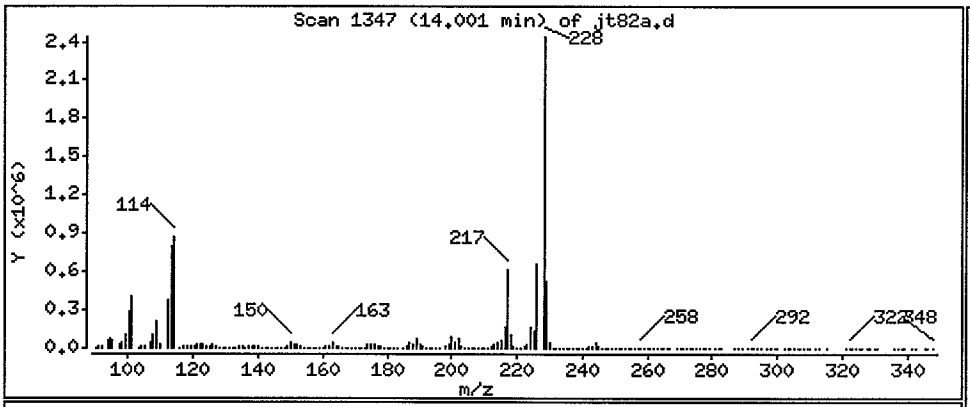
Operator: VTS

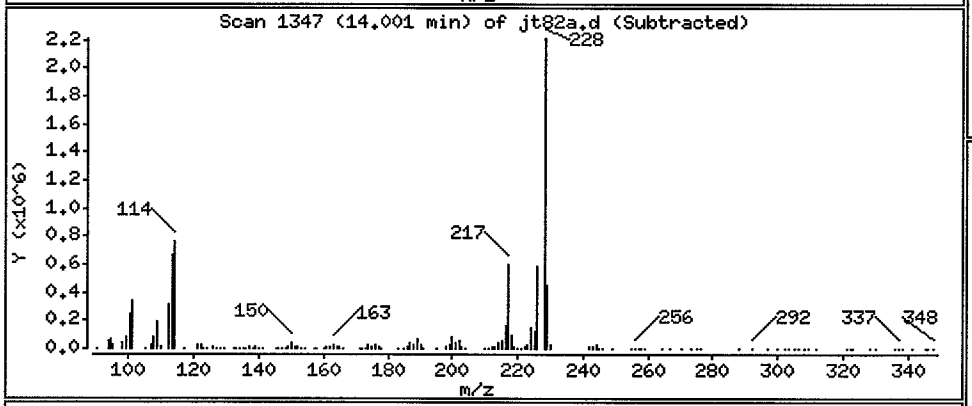
Column phase: ZB-5

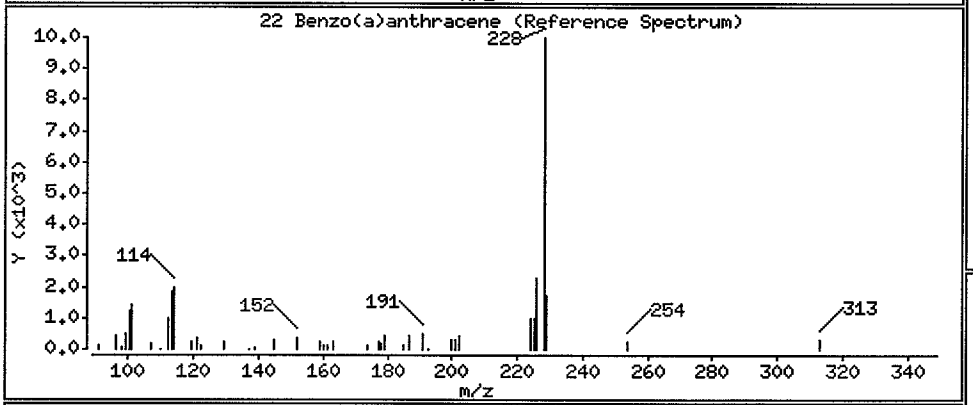
Column diameter: 0.25

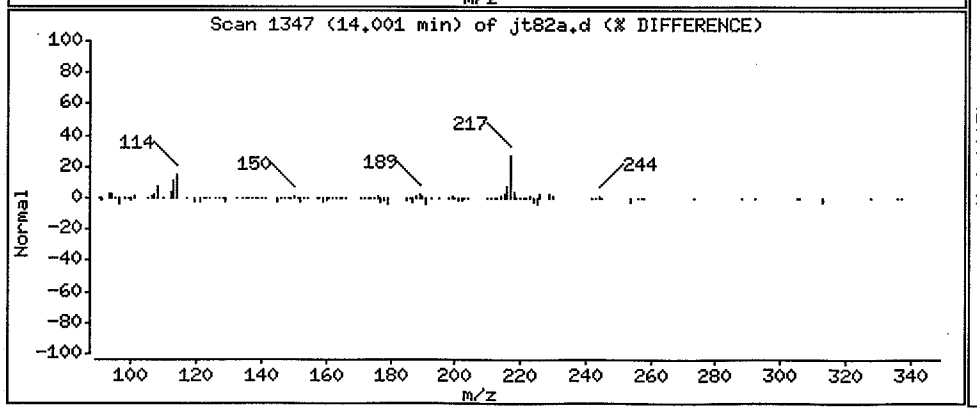
22 Benzo(a)anthracene

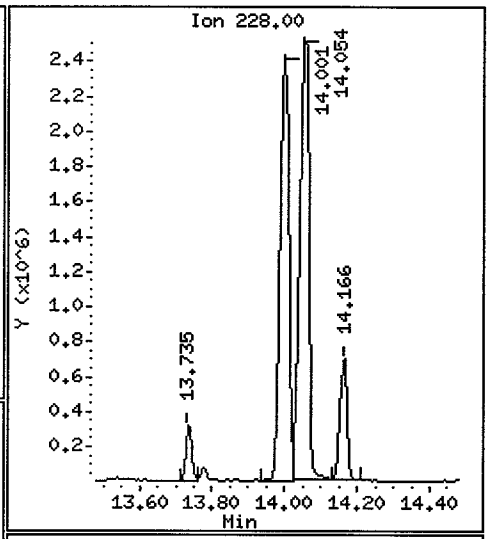
Concentration: 8639 ug/kg

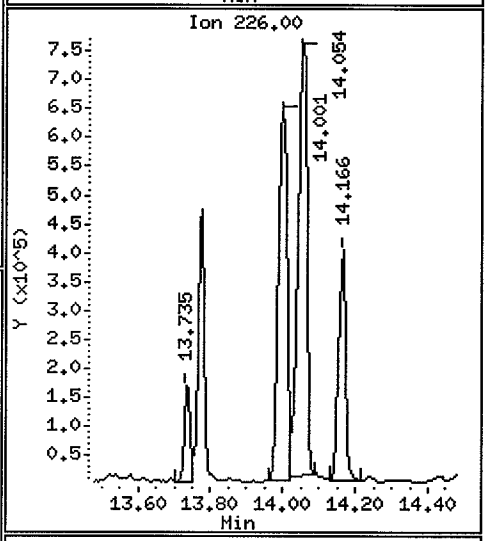


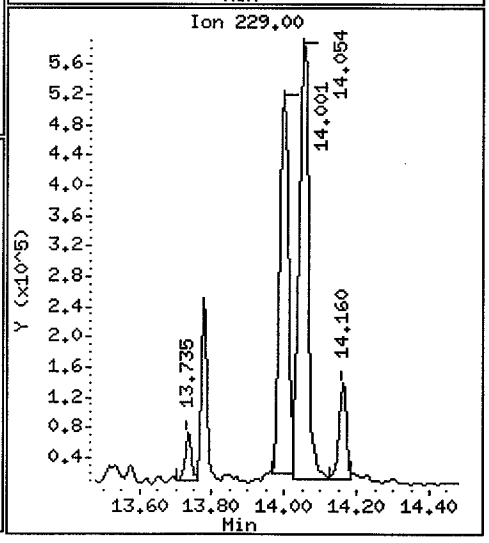












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

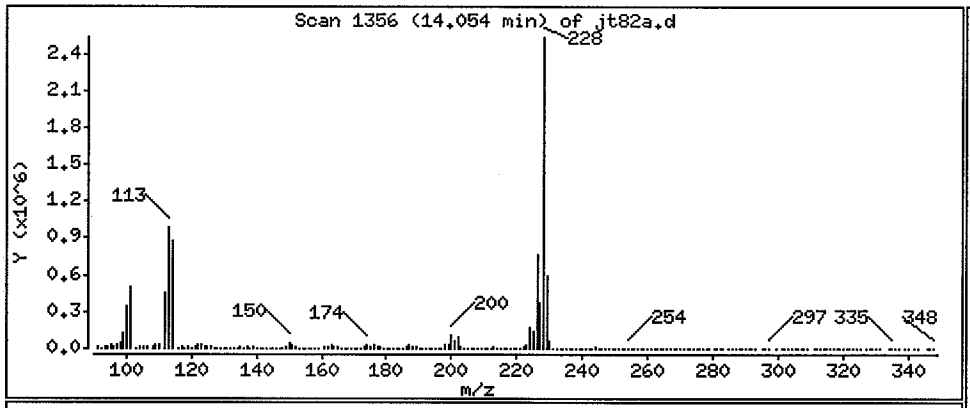
Operator: VTS

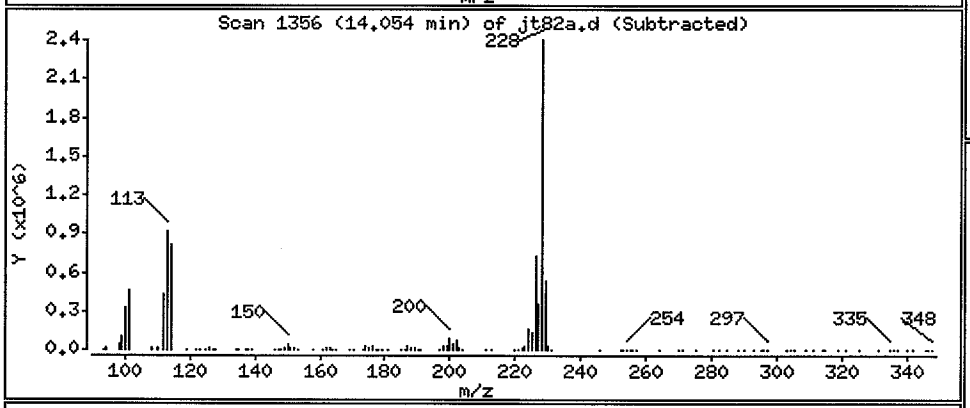
Column phase: ZB-5

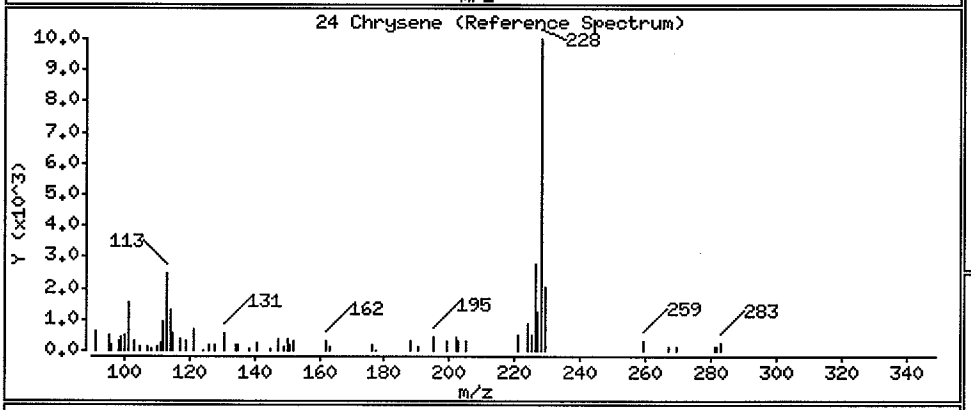
Column diameter: 0.25

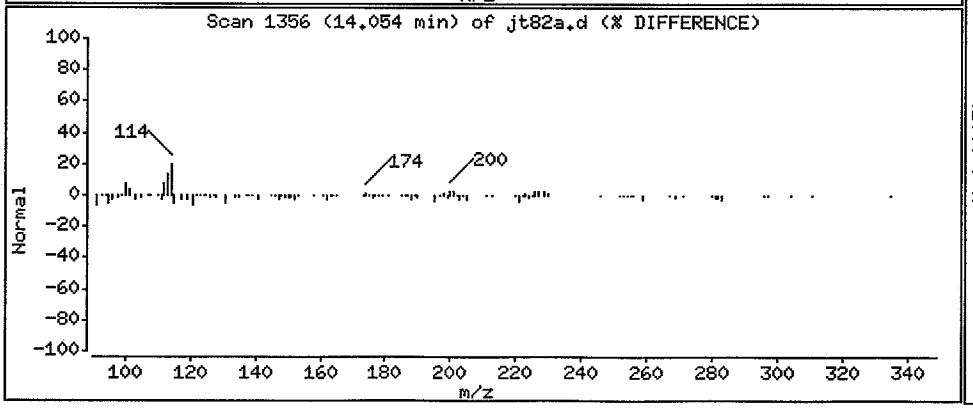
24 Chrysene

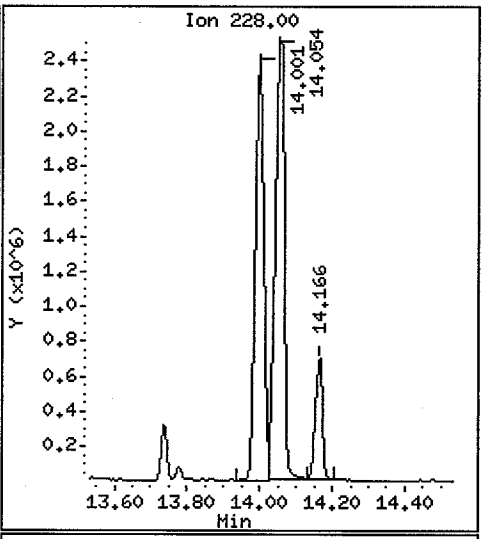
Concentration: 10010 ug/kg

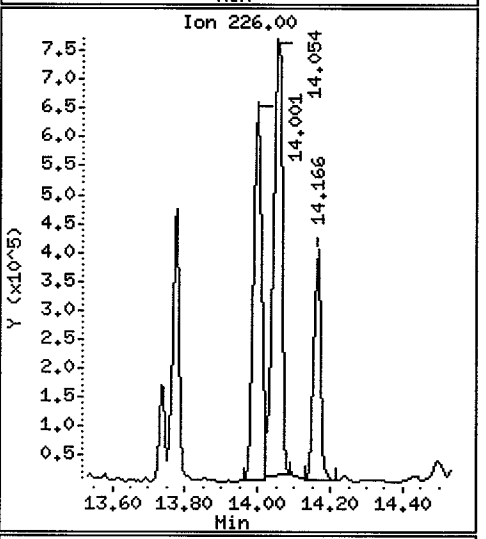


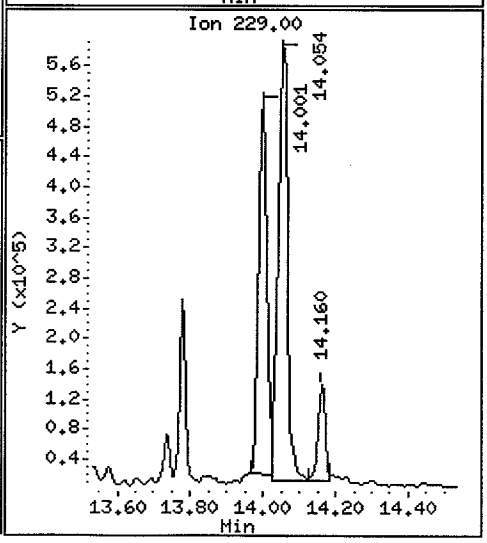












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

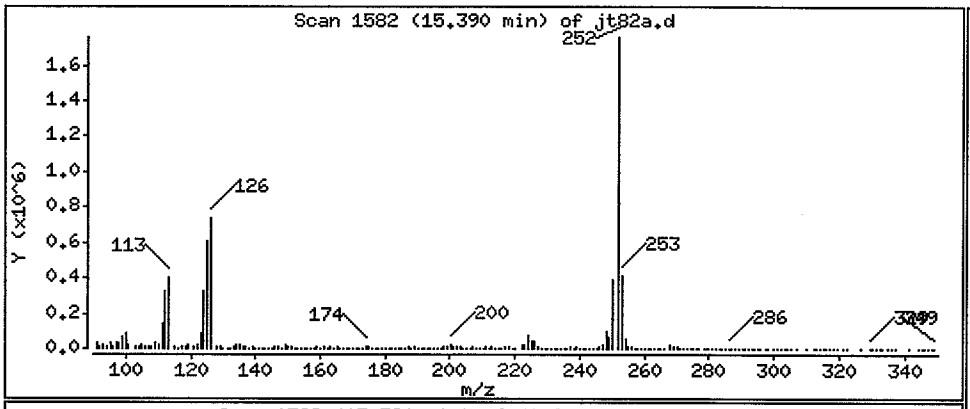
Operator: VTS

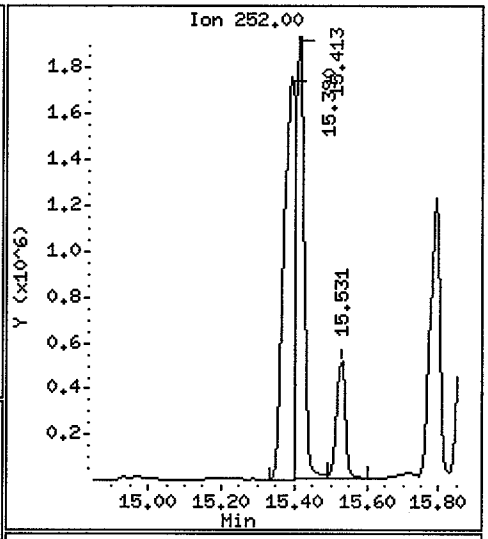
Column phase: ZB-5

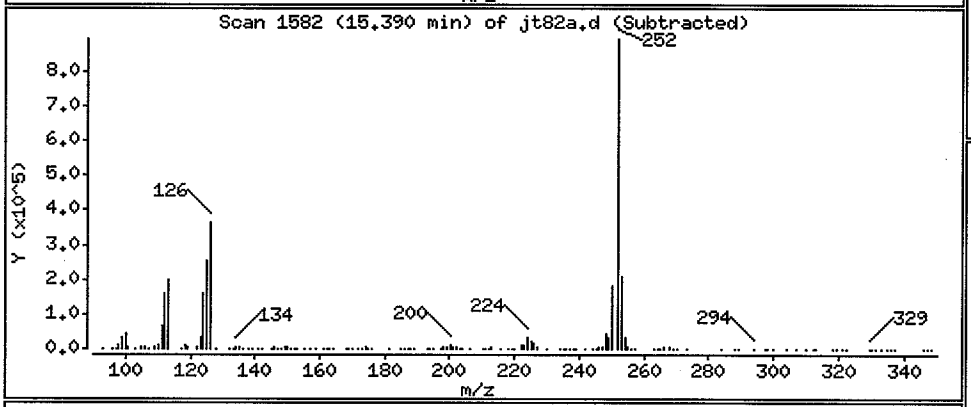
Column diameter: 0.25

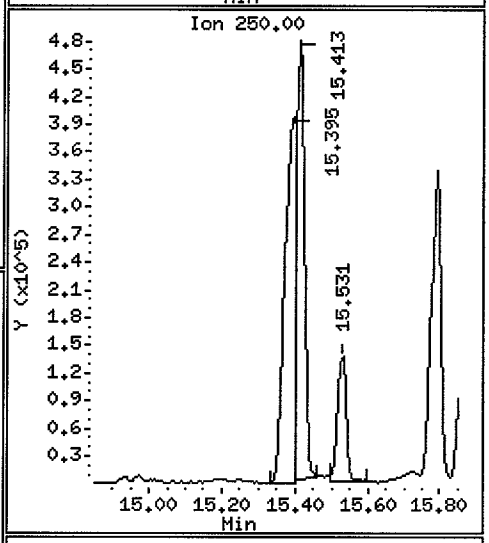
28 Benzo(b)fluoranthene

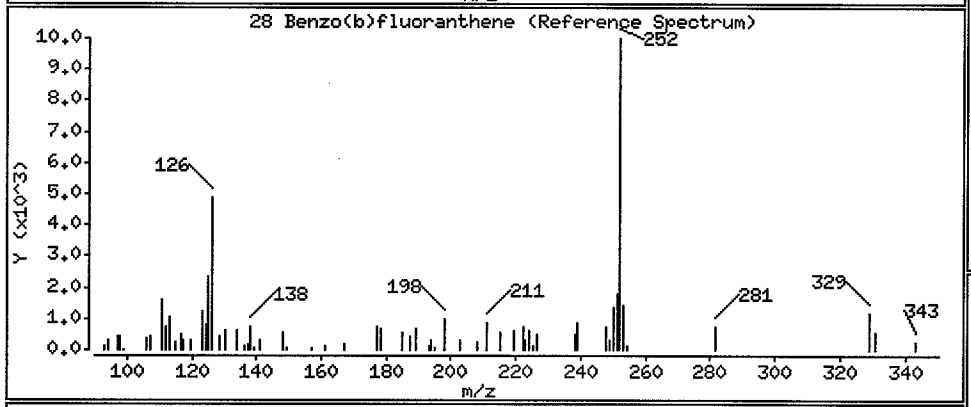
Concentration: 13560 ug/kg

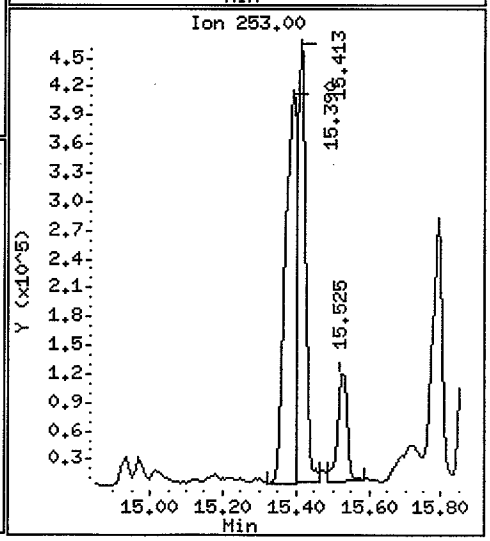


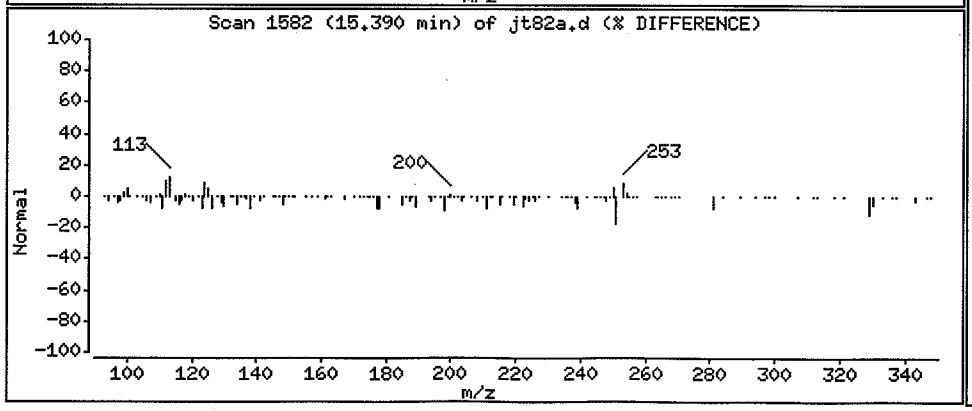












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

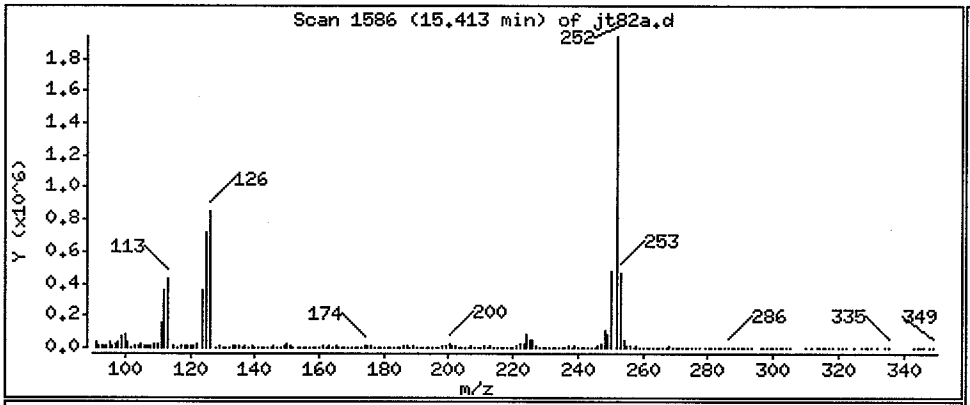
Operator: VTS

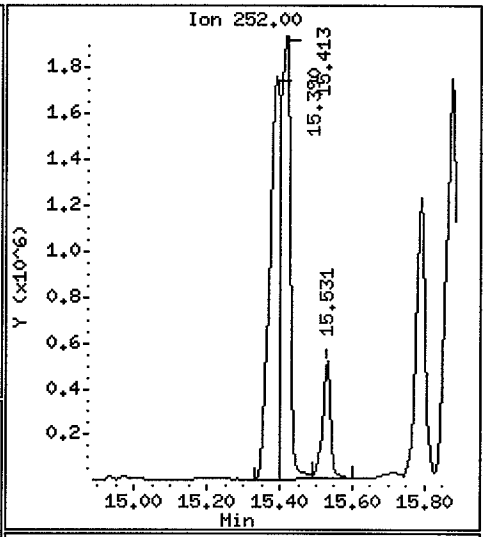
Column phase: ZB-5

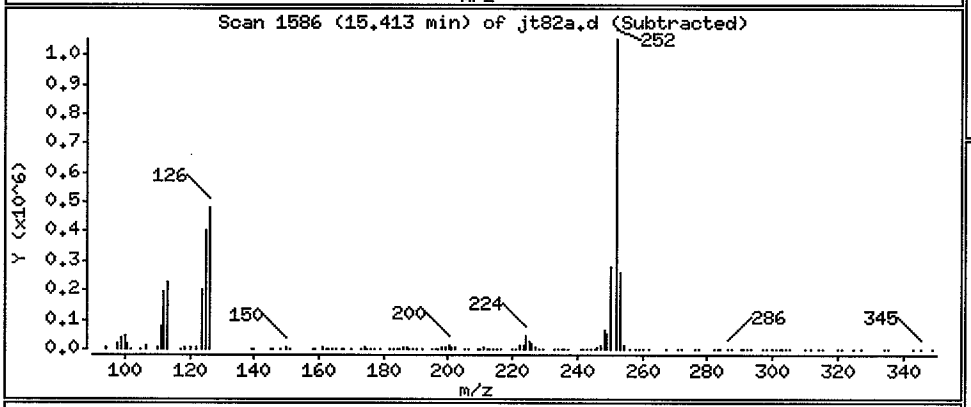
Column diameter: 0.25

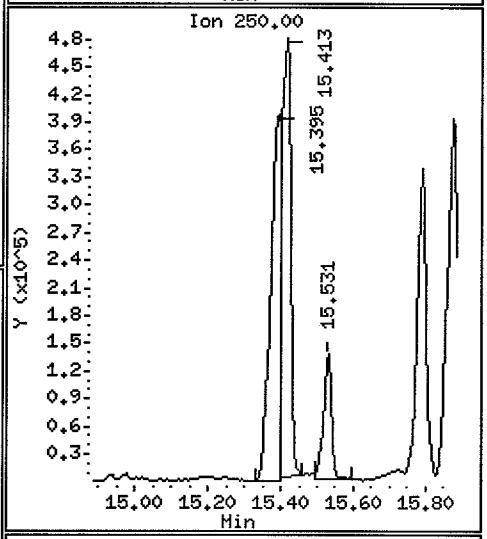
29 Benzo(k)fluoranthene

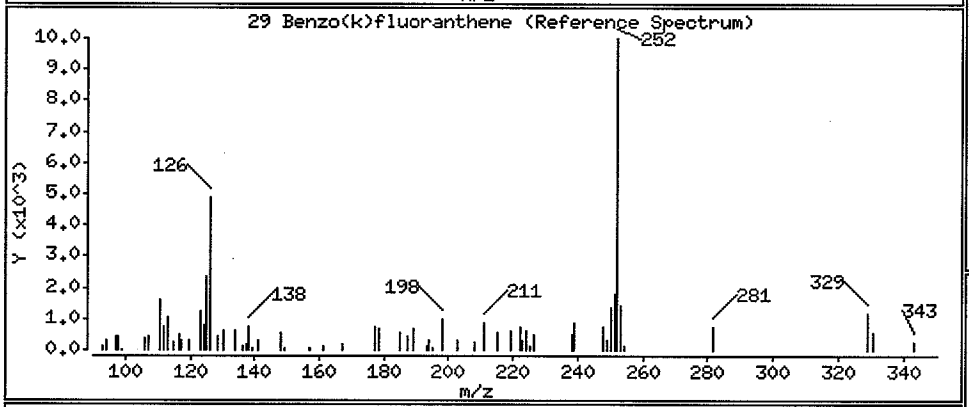
Concentration: 11020 ug/kg

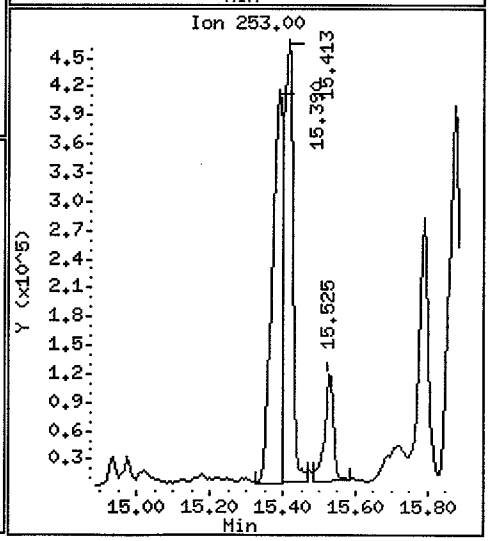


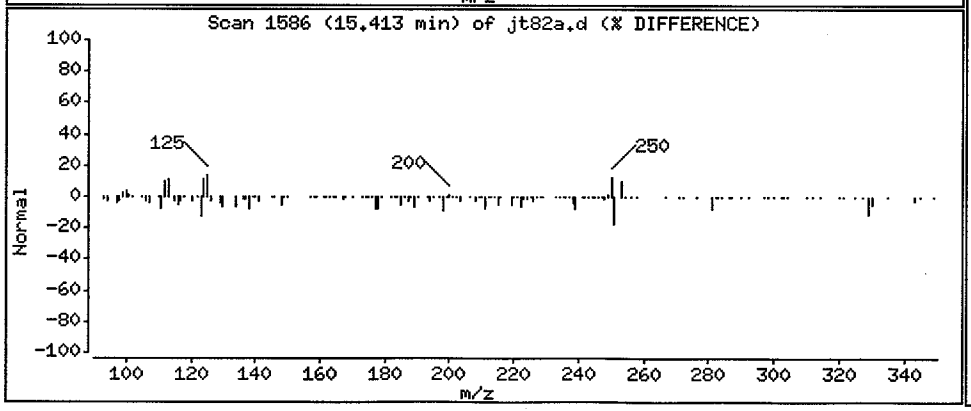












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

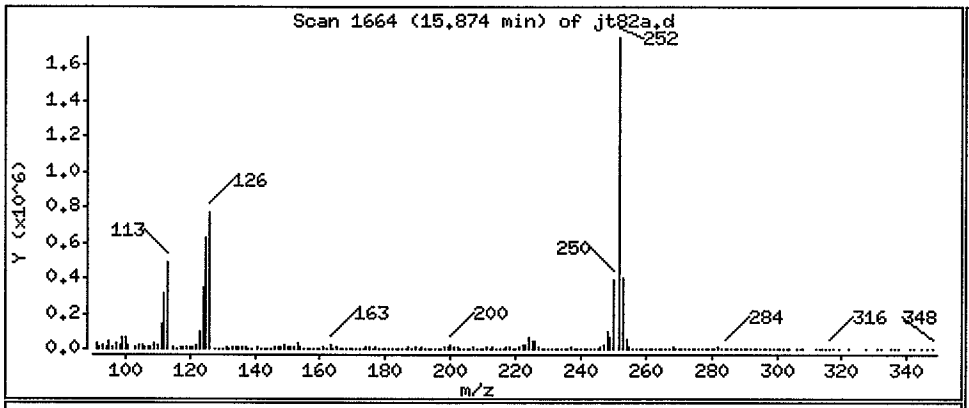
Operator: VTS

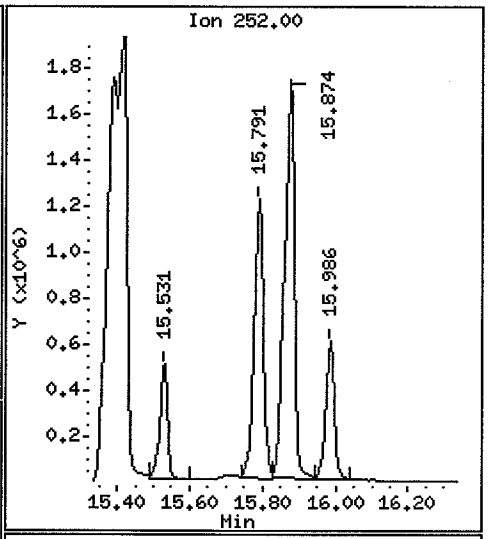
Column phase: ZB-5

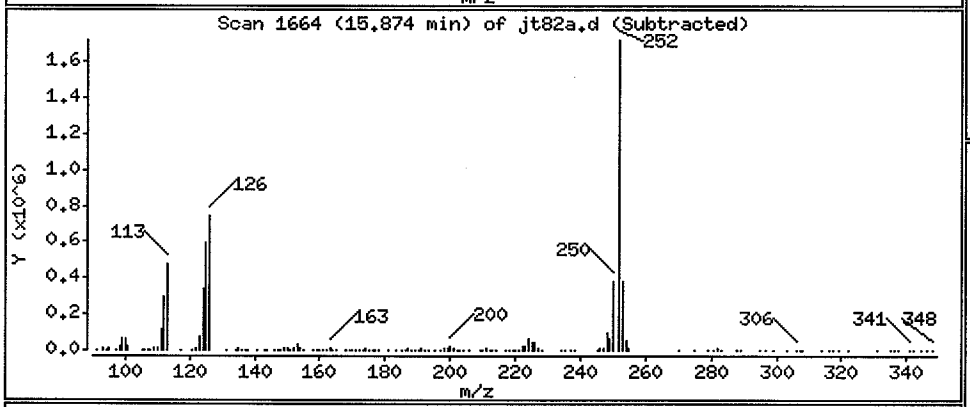
Column diameter: 0.25

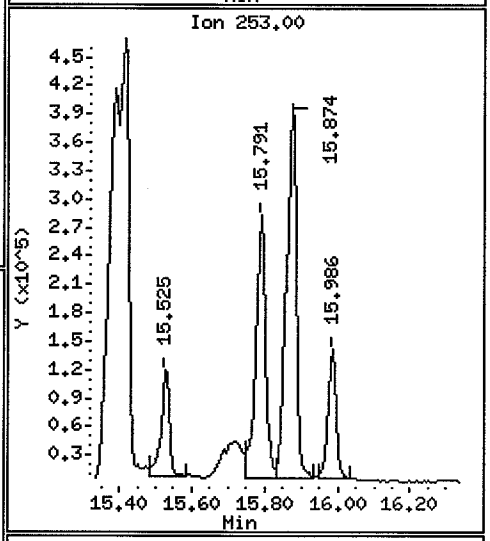
30 Benzo(a)pyrene

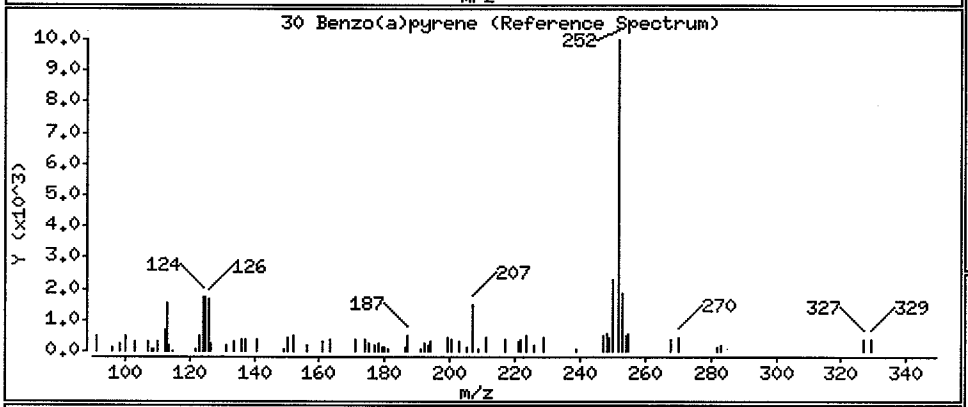
Concentration: 12100 ug/kg

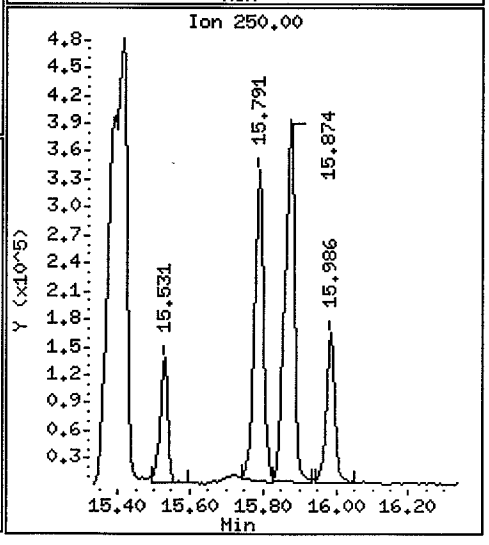


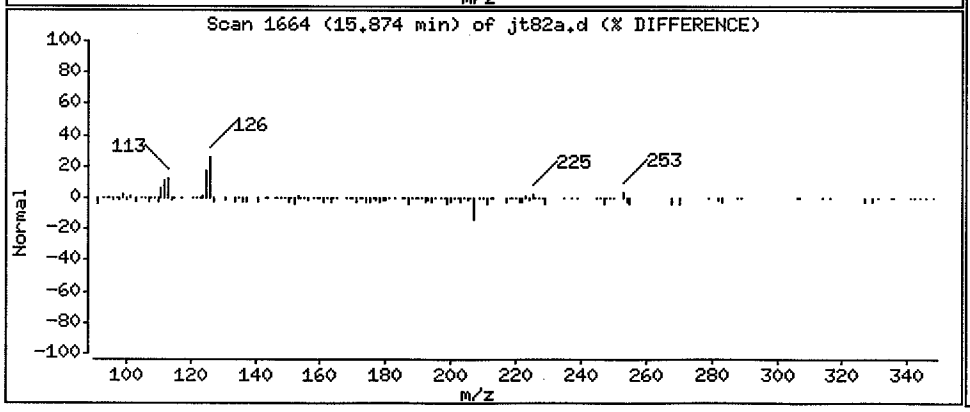












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

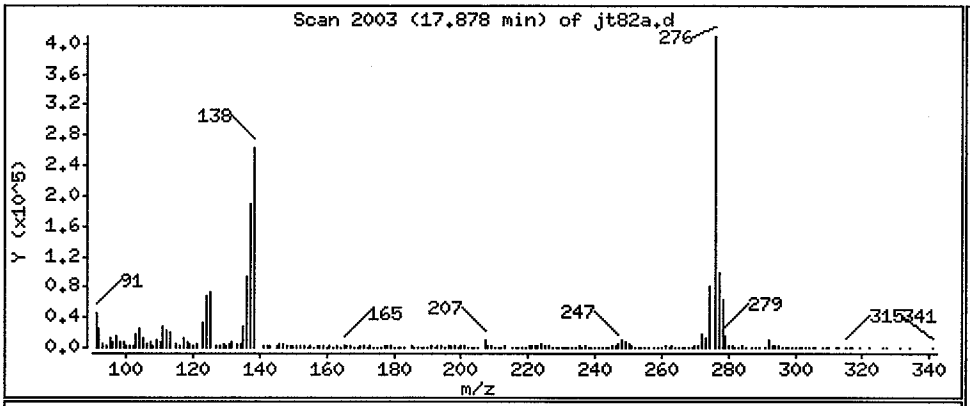
Operator: VTS

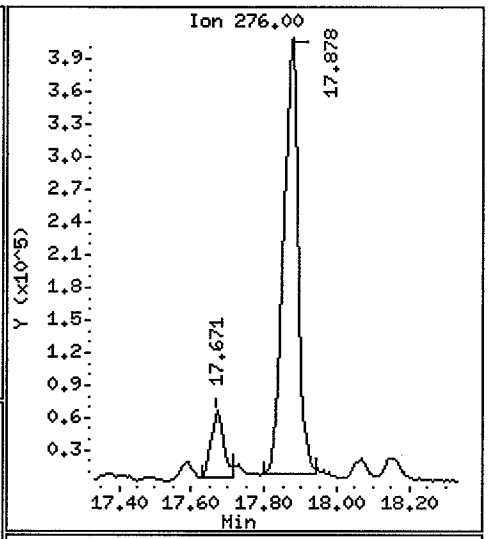
Column phase: ZB-5

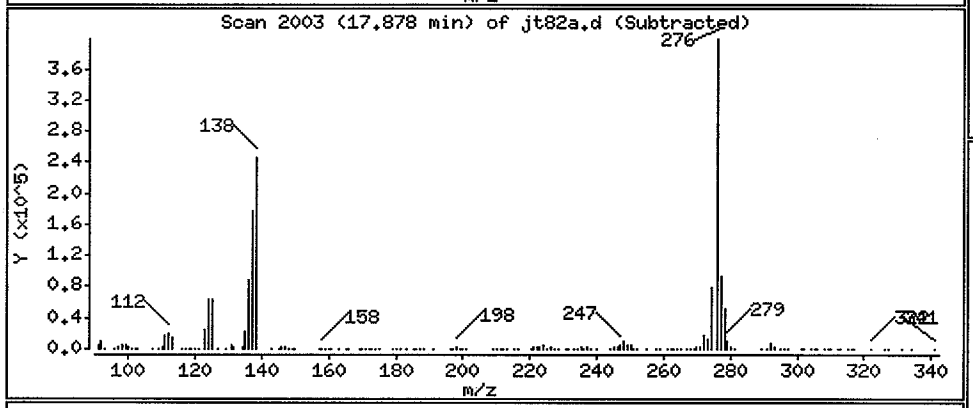
Column diameter: 0.25

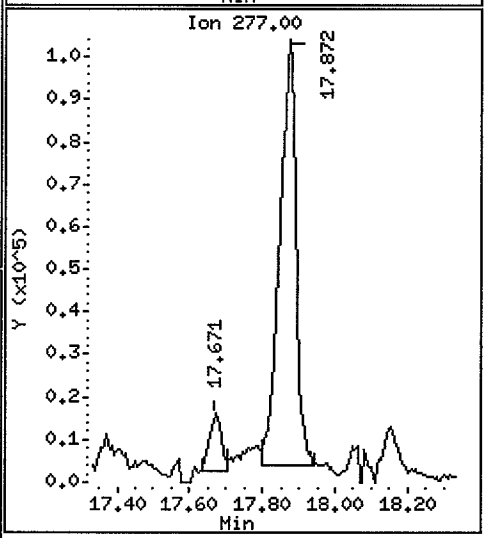
33 Indeno(1,2,3-cd)pyrene

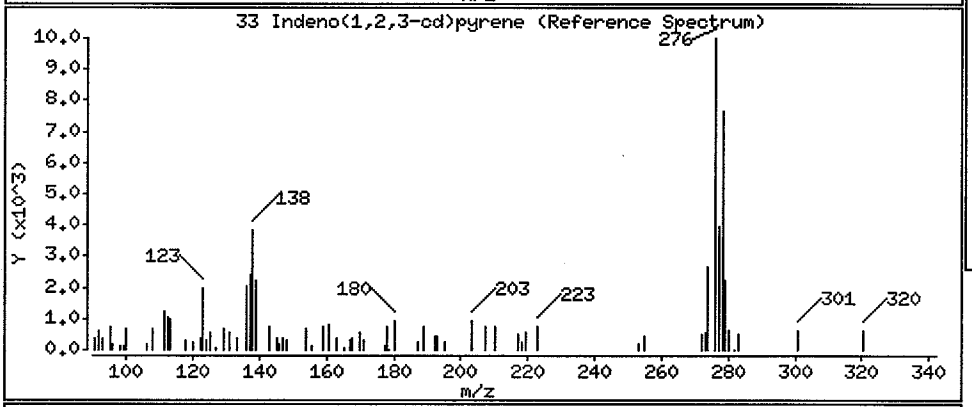
Concentration: 3616 ug/kg

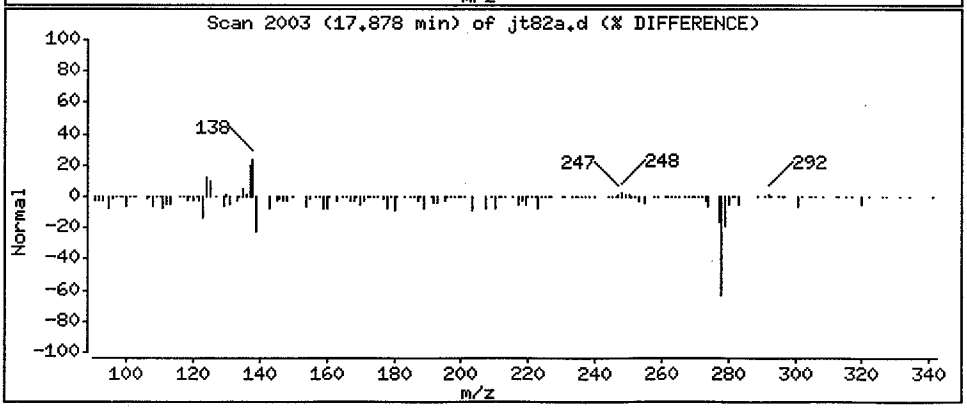












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

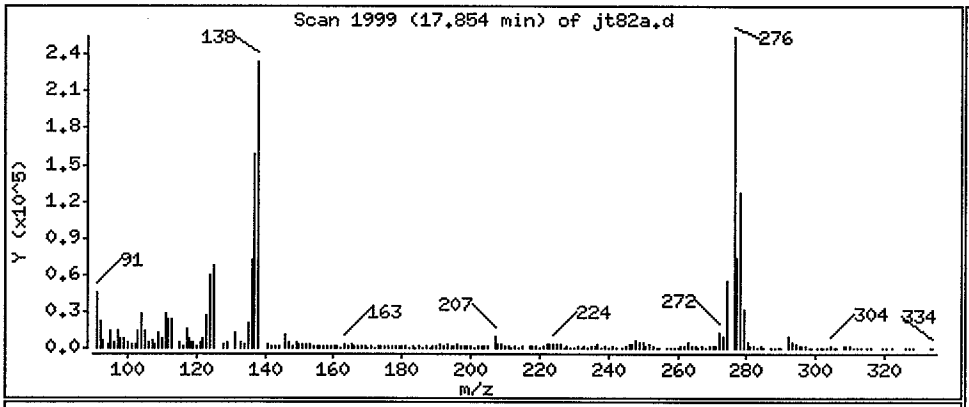
Operator: VTS

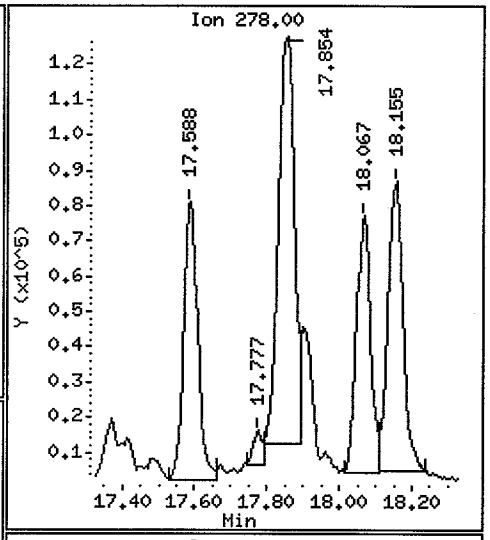
Column phase: ZB-5

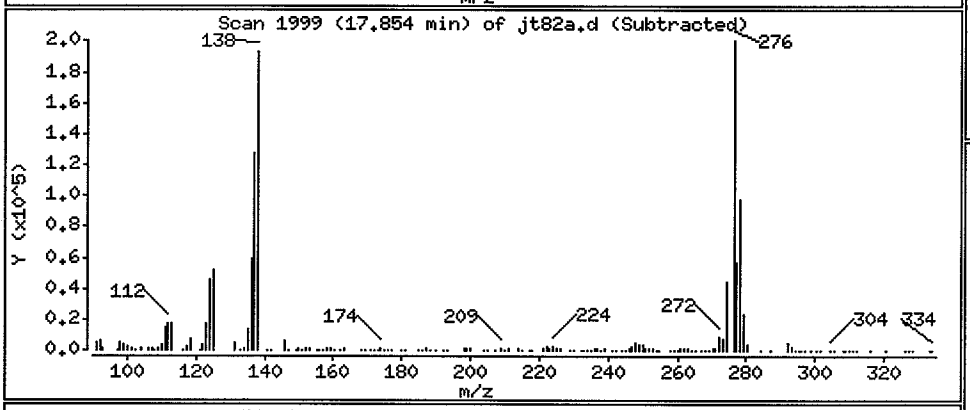
Column diameter: 0.25

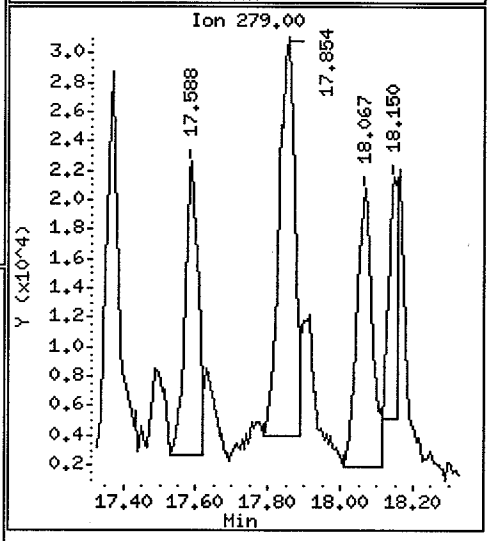
34 Dibenz(a,h)anthracene

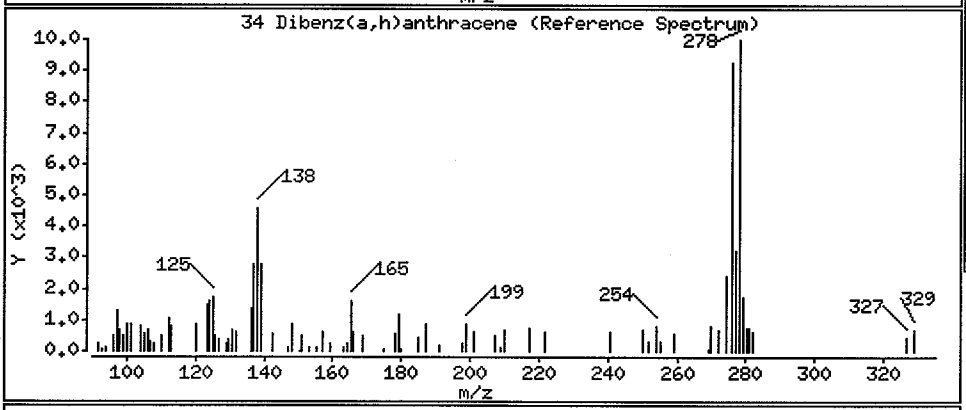
Concentration: 1392 ug/kg

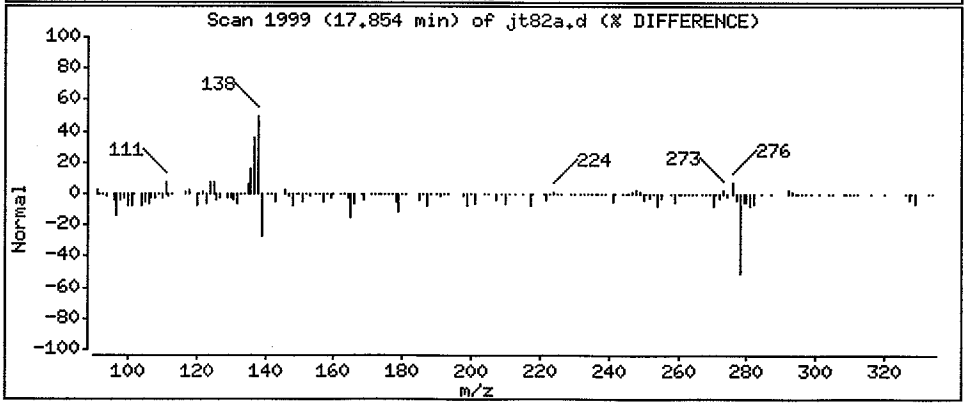












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

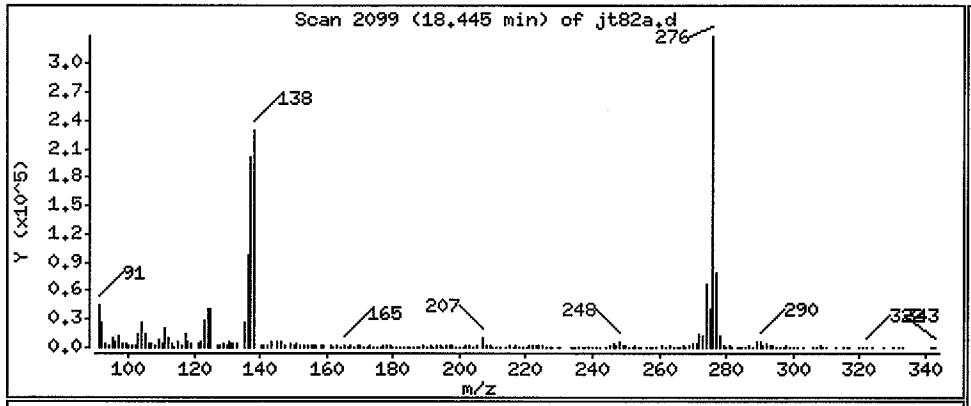
Operator: VTS

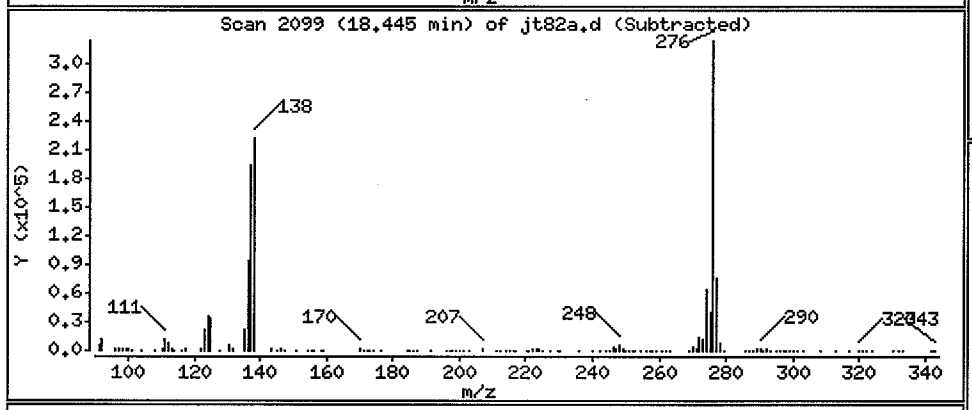
Column phase: ZB-5

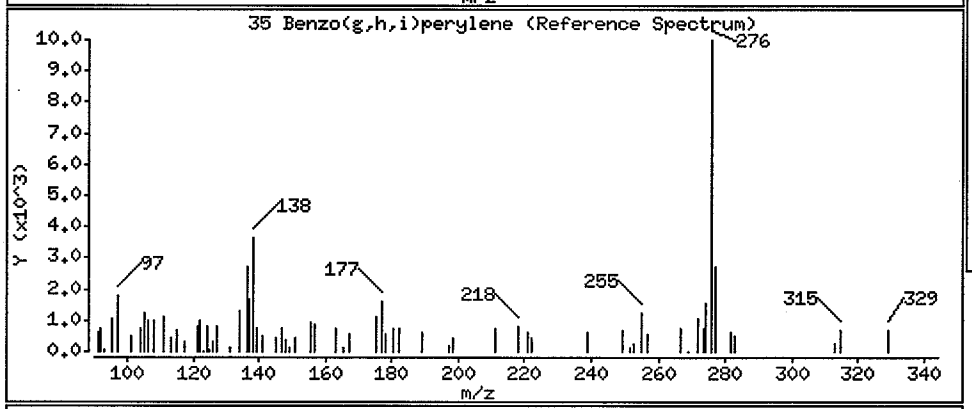
Column diameter: 0.25

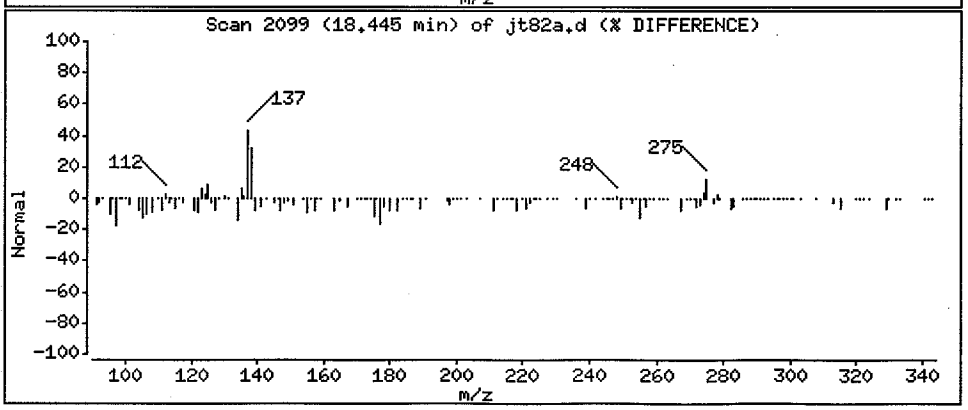
35 Benzo(g,h,i)perylene

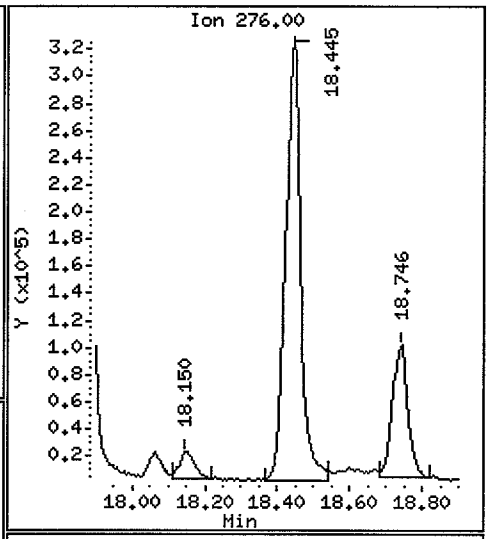
Concentration: 3631 ug/kg

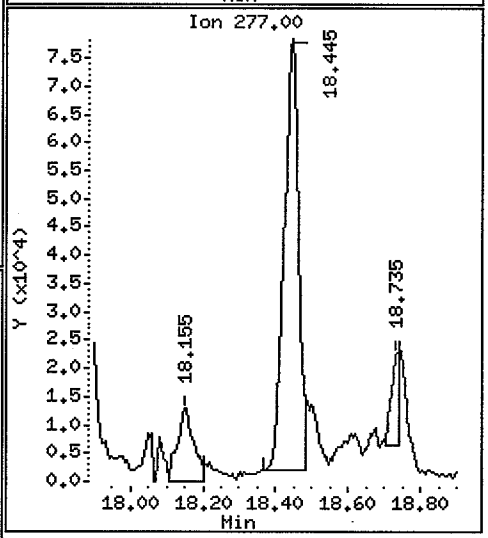












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

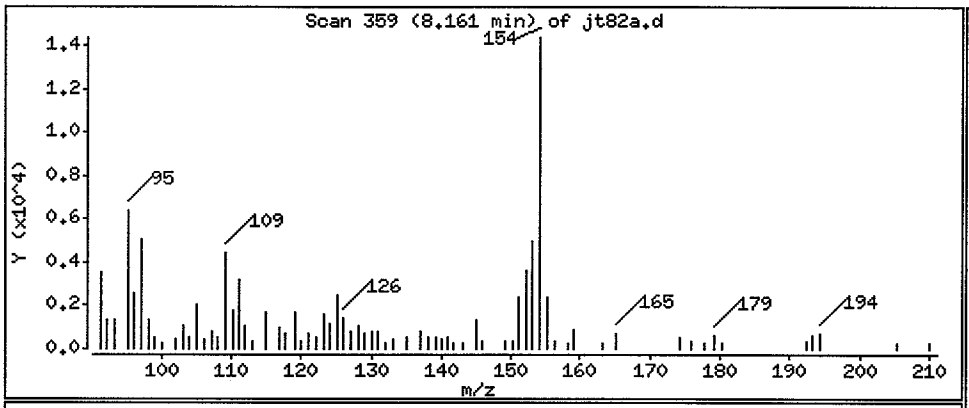
Operator: VTS

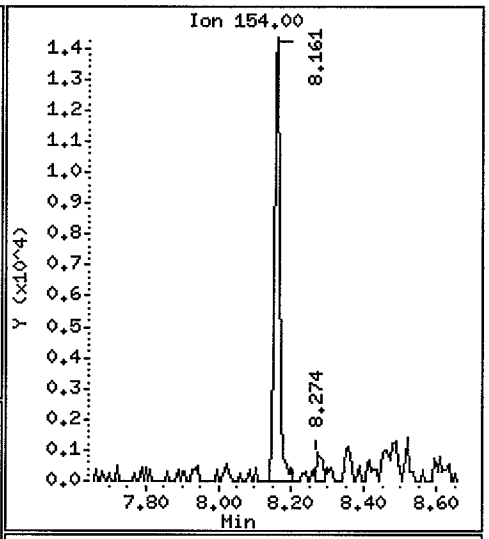
Column phase: ZB-5

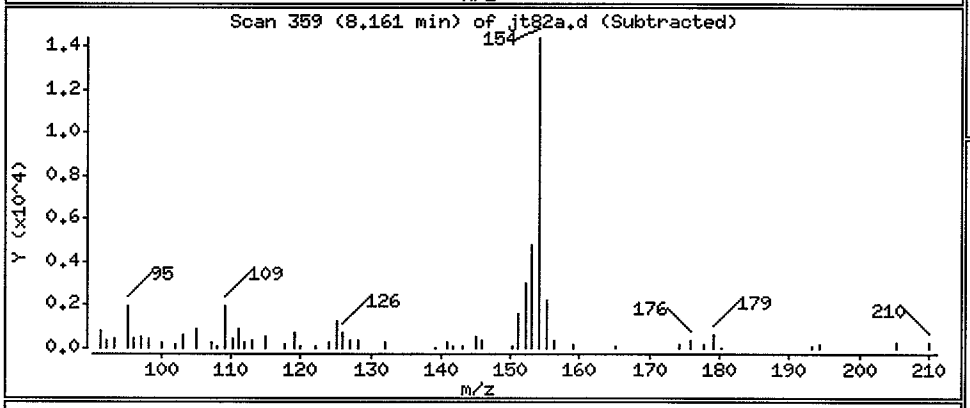
Column diameter: 0.25

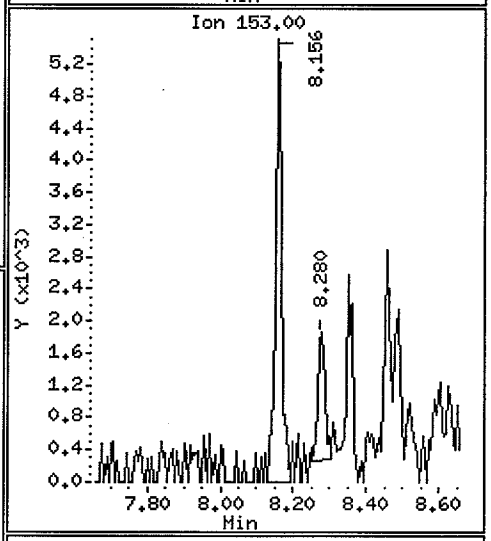
48 Biphenyl

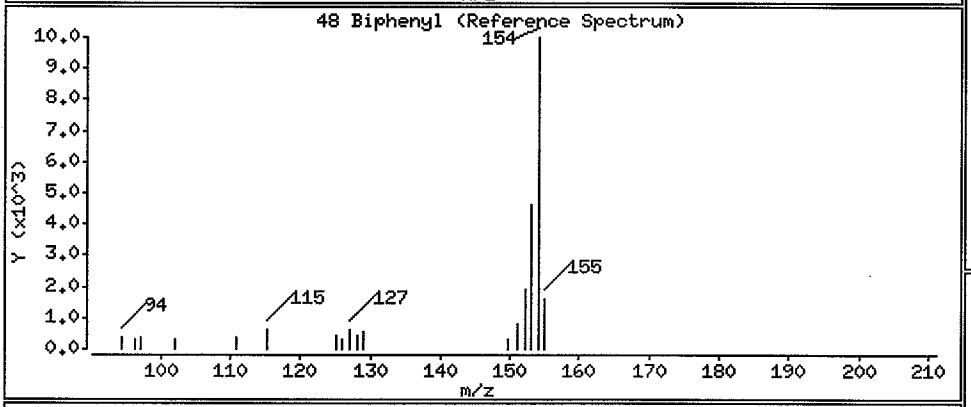
Concentration: 35.11 ug/kg

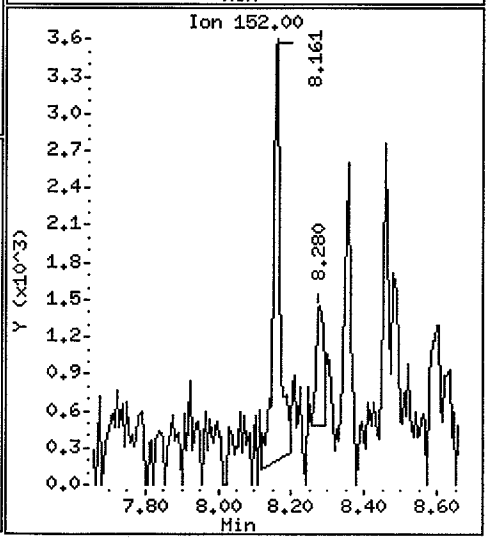


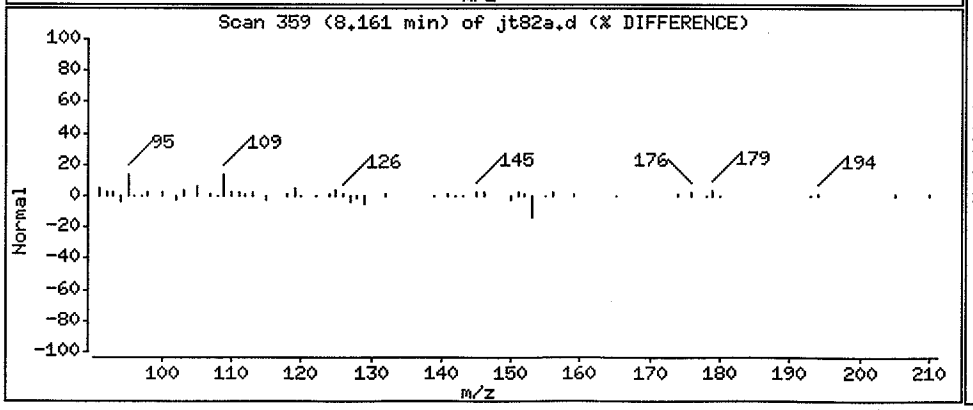












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

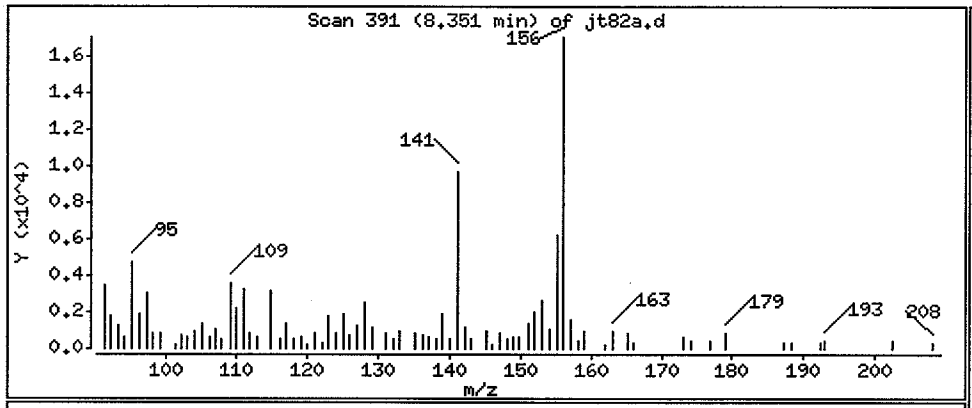
Operator: VTS

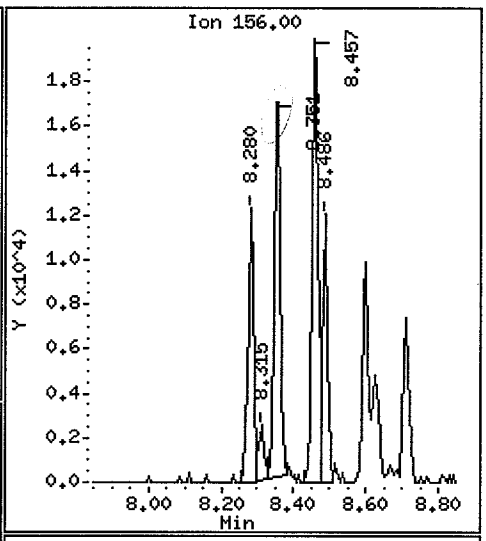
Column phase: ZB-5

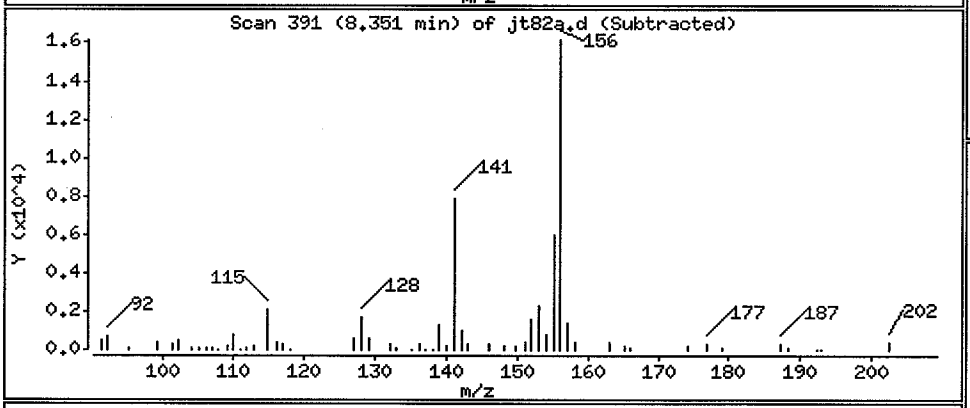
Column diameter: 0.25

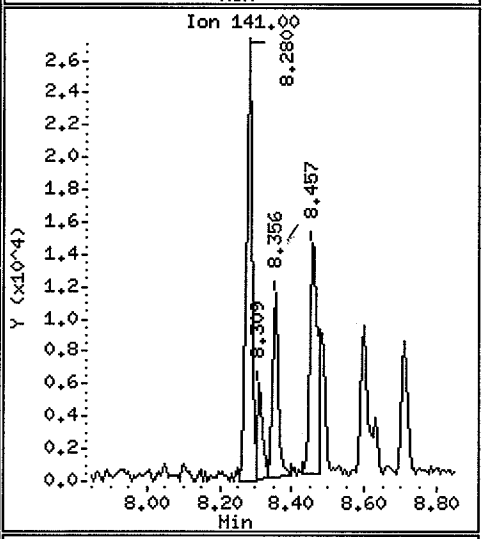
49 2,6-Dimethylnaphthalene

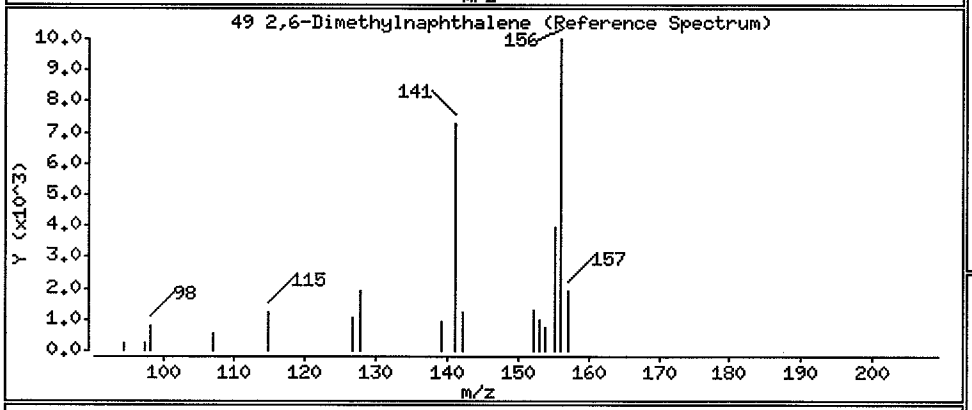
Concentration: 56.87 ug/kg

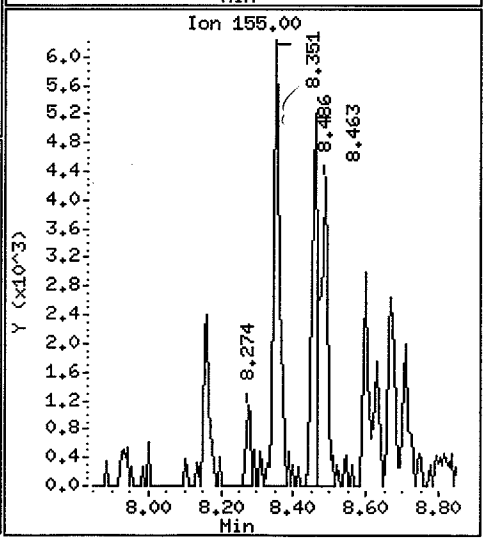


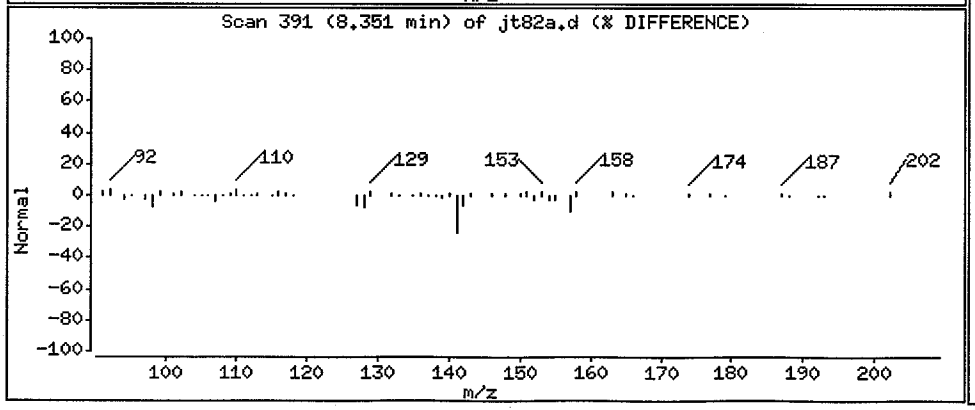












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

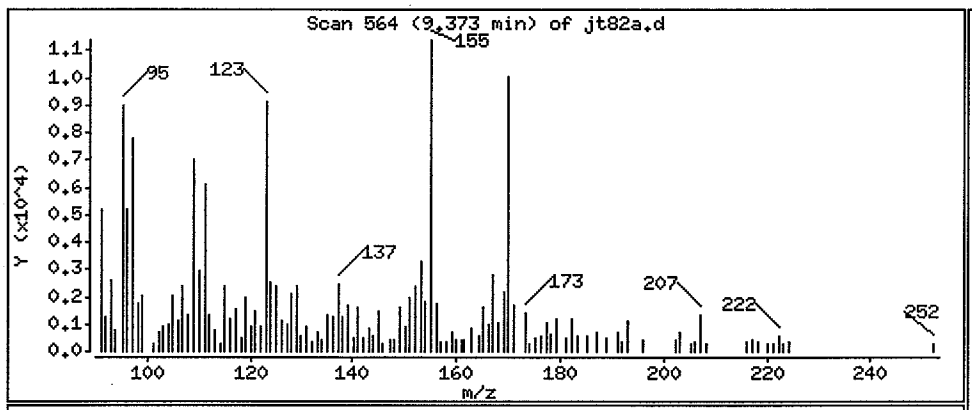
Operator: VTS

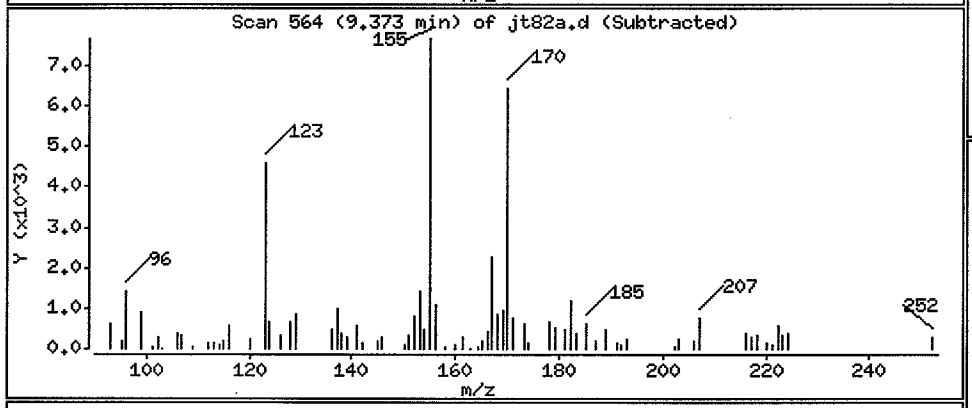
Column phase: ZB-5

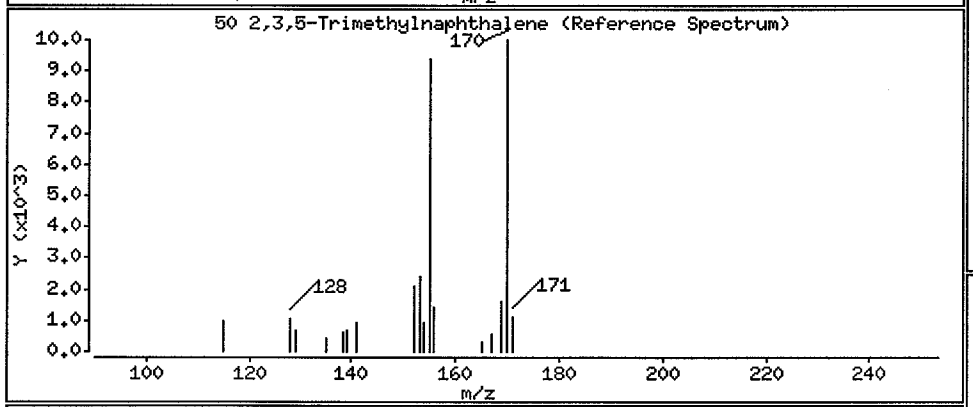
Column diameter: 0.25

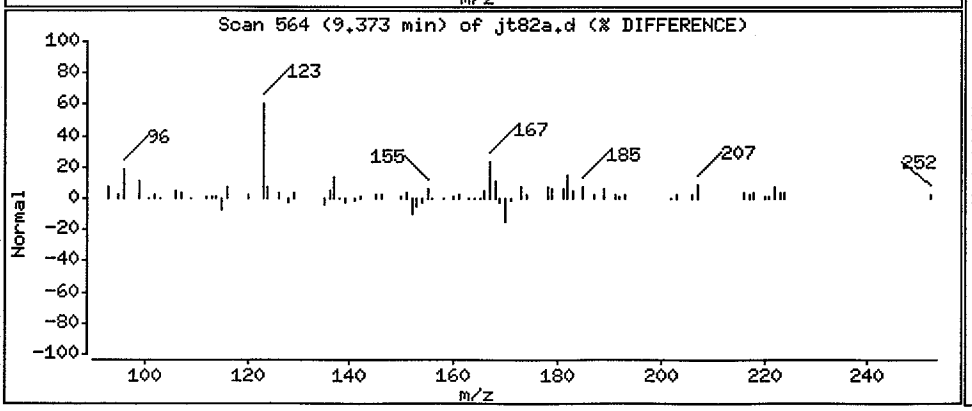
50 2,3,5-Trimethylnaphthalene

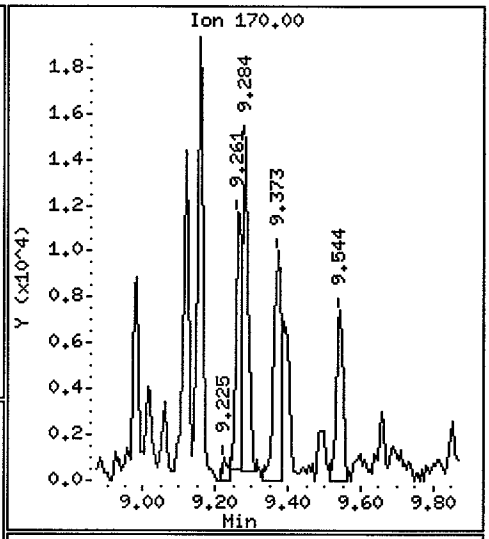
Concentration: 53.00 ug/kg

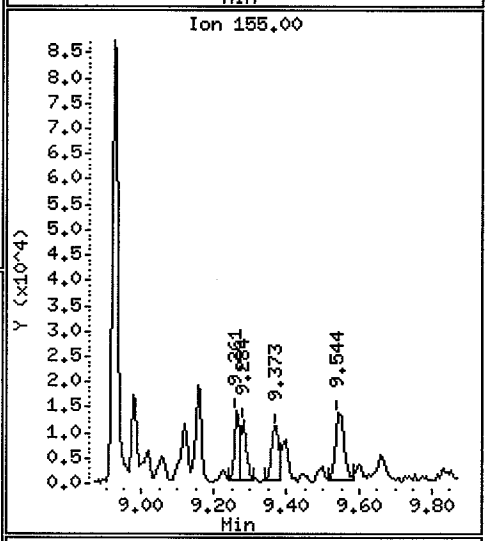


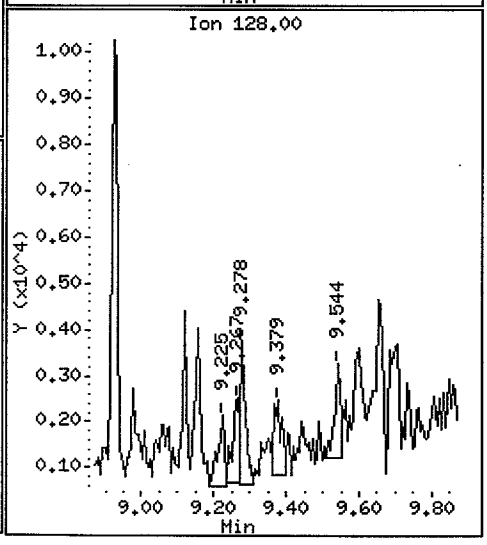












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

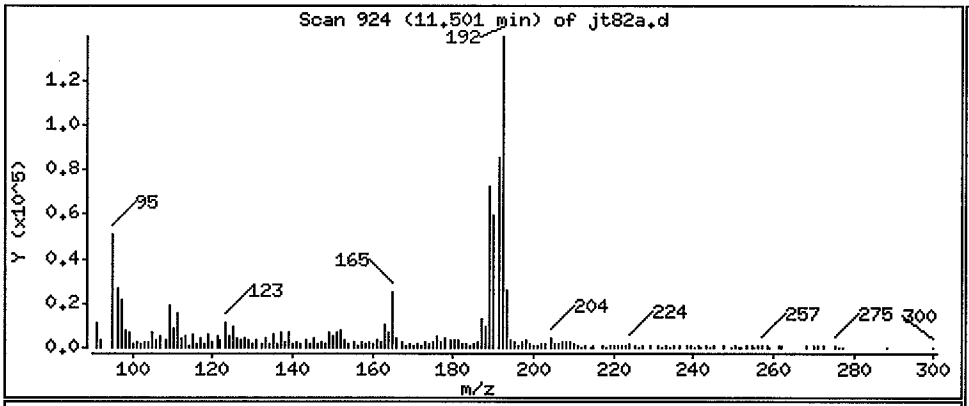
Operator: VTS

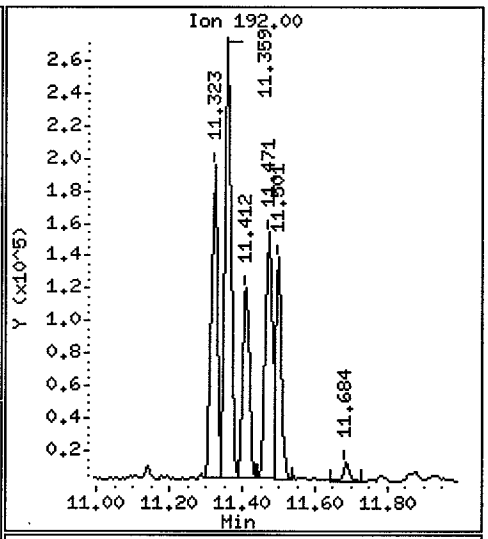
Column phase: ZB-5

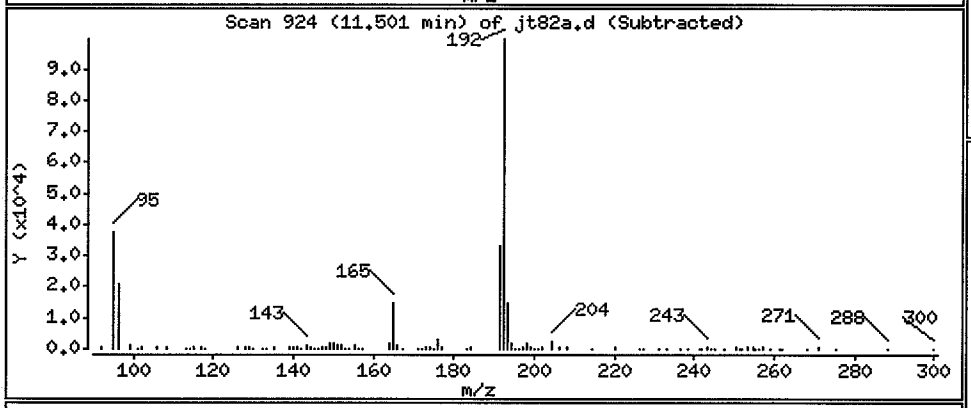
Column diameter: 0.25

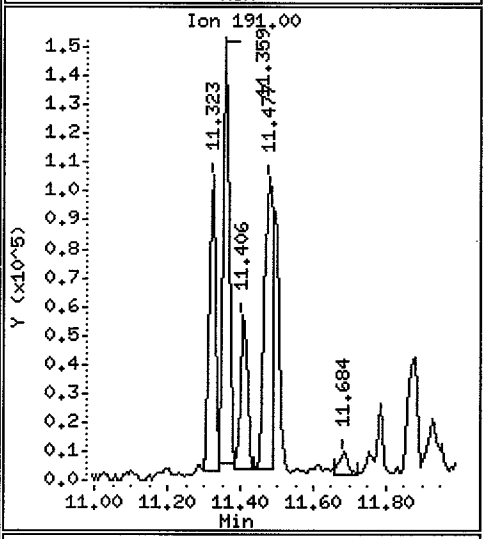
51 1-Methylphenanthrene

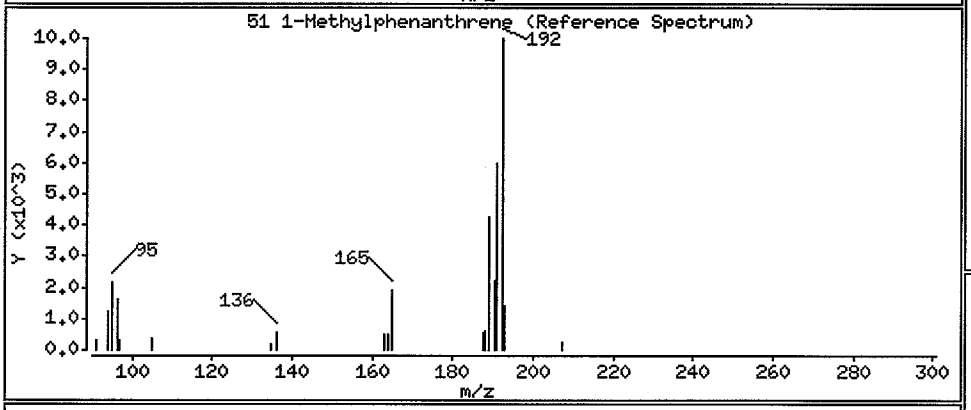
Concentration: 525.2 ug/kg

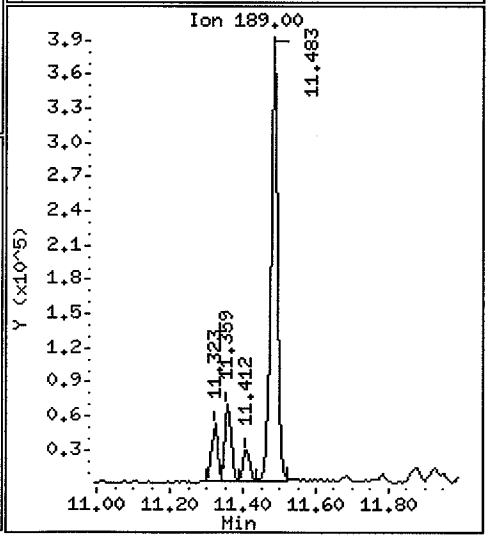


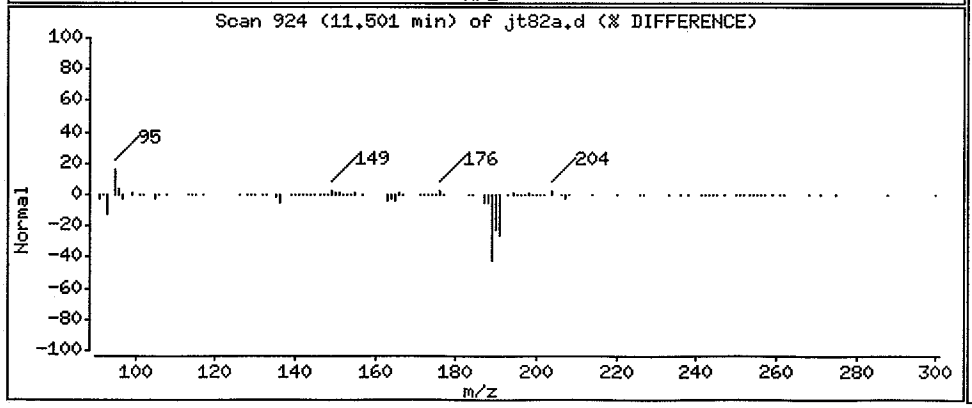












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

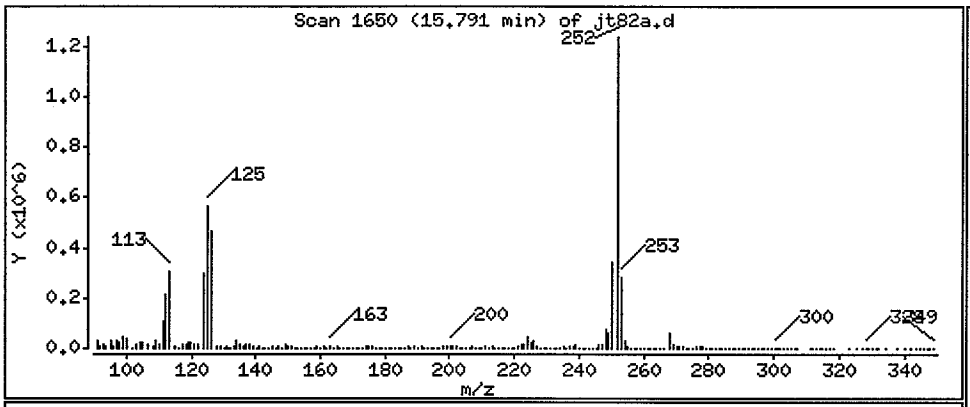
Operator: VTS

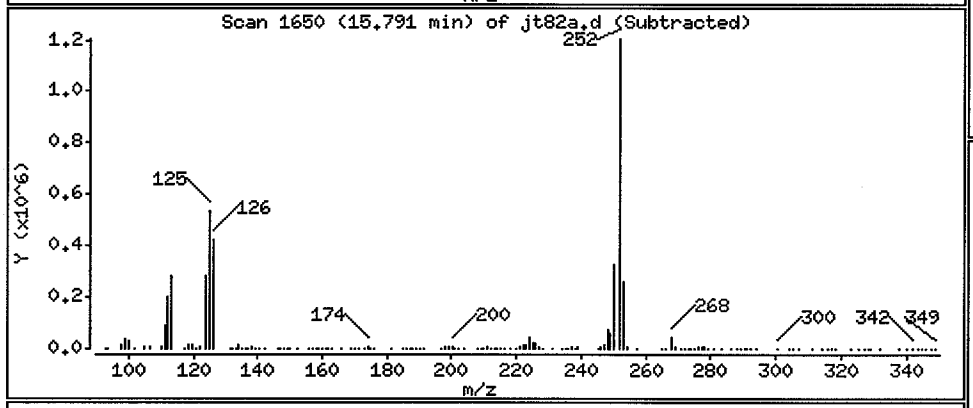
Column phase: ZB-5

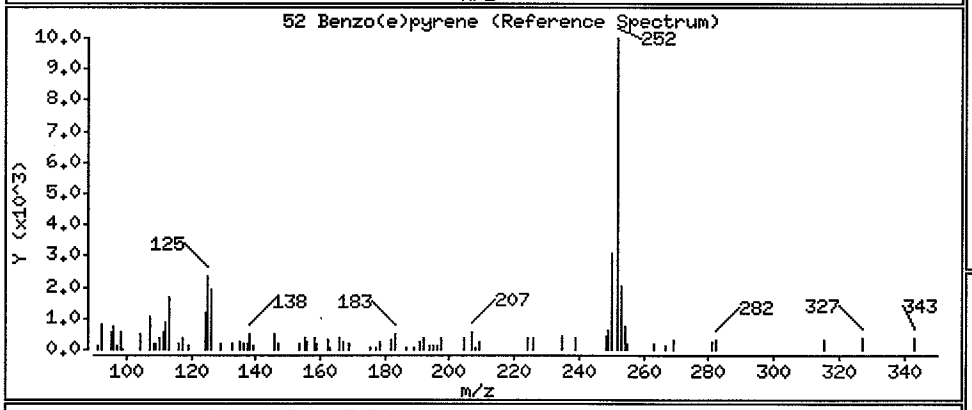
Column diameter: 0.25

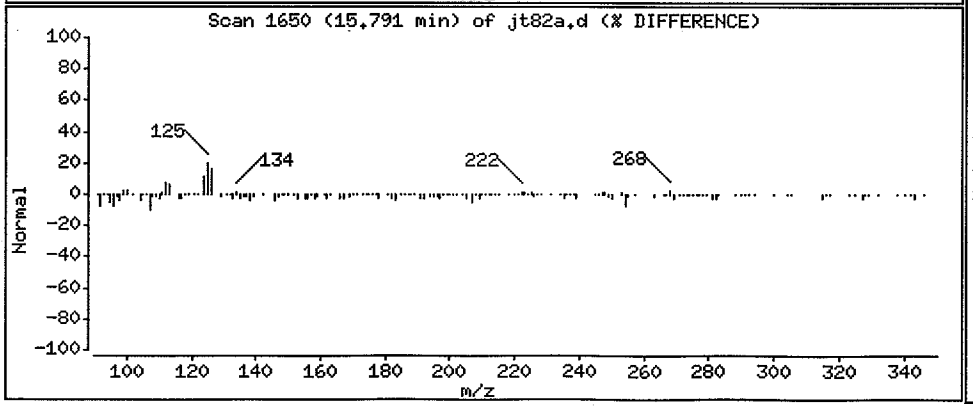
52 Benzo(e)pyrene

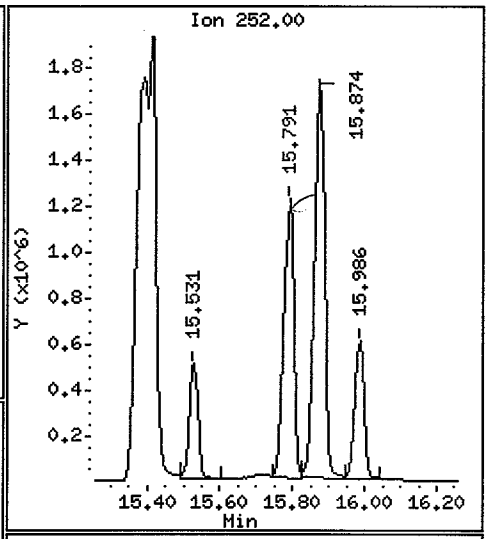
Concentration: 7487 ug/kg

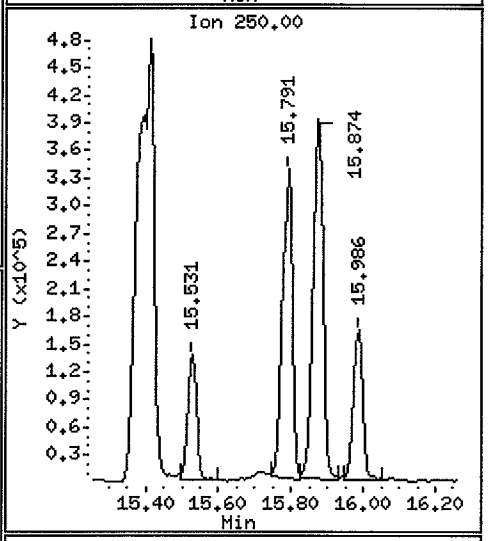


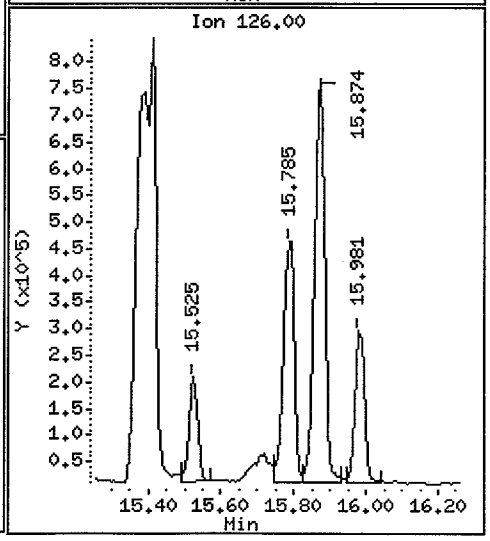












Data File: /chem3/nt1.i/20060831.b/jt82a.d

Date : 31-AUG-2006 21:52

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,5

Volume Injected (uL): 1.0

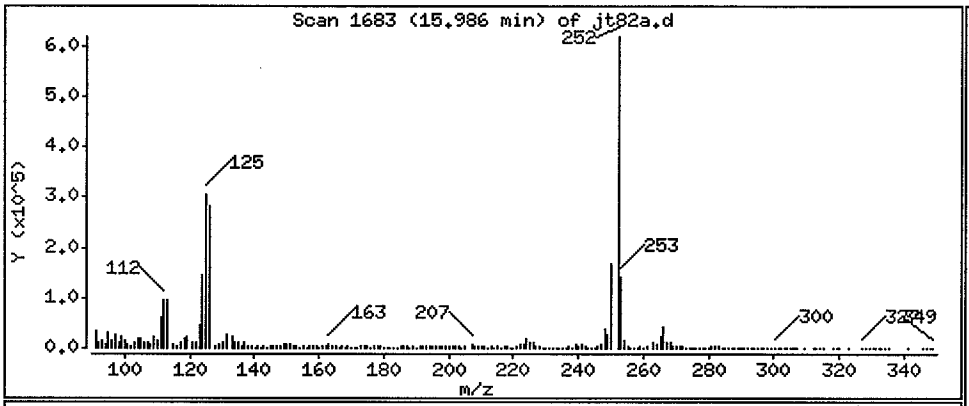
Operator: VTS

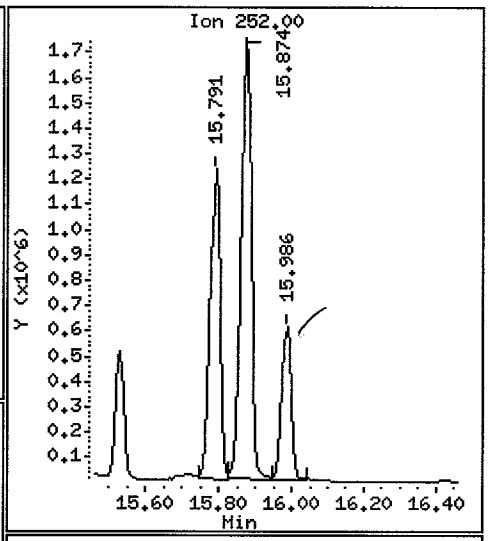
Column phase: ZB-5

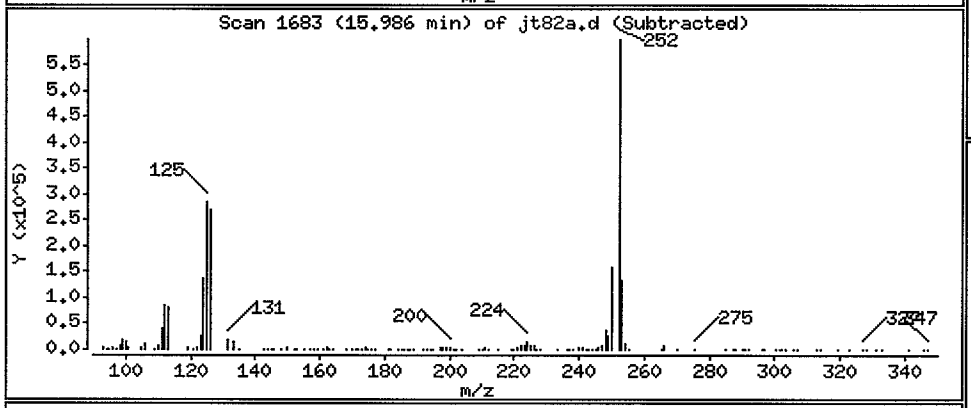
Column diameter: 0.25

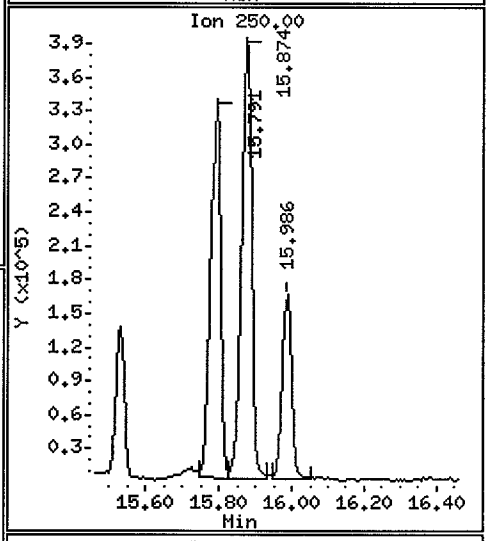
53 Perylene

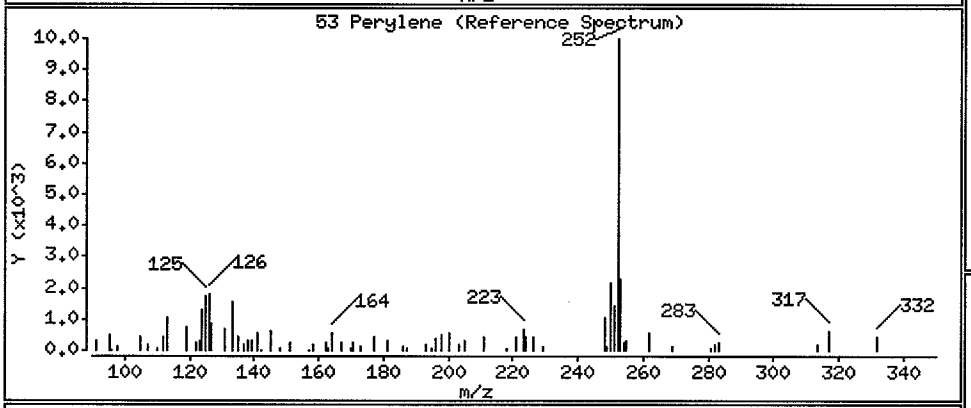
Concentration: 3662 ug/kg

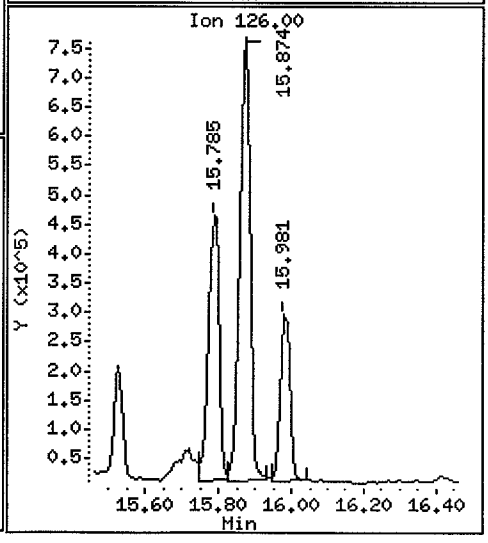


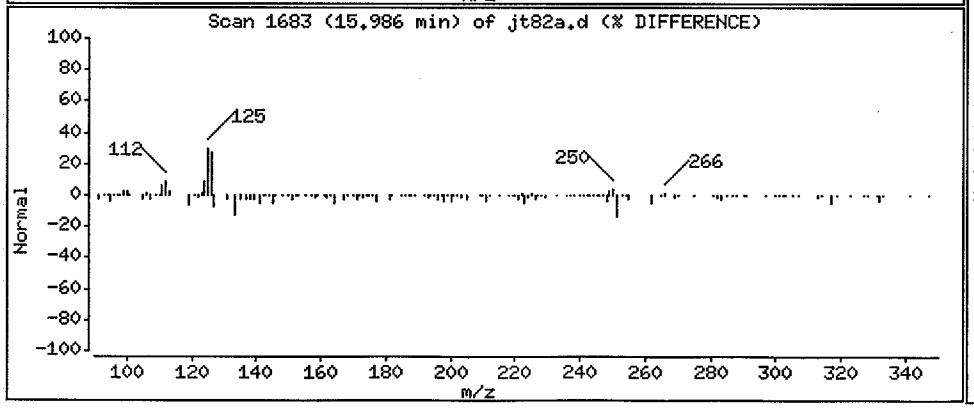












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-01-J
DILUTION

Lab Sample ID: JT82A
LIMS ID: 06-15215
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 09/01/06 11:54
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 33.1%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**250**	**280**
91-57-6	2-Methylnaphthalene	250	< 250 U
90-12-0	1-Methylnaphthalene	250	< 250 U
208-96-8	Acenaphthylene	250	< 250 U
83-32-9	**Acenaphthene**	**250**	**2,200**
86-73-7	**Fluorene**	**250**	**820**
85-01-8	**Phenanthrene**	**250**	**7,700**
120-12-7	**Anthracene**	**250**	**1,900**
206-44-0	**Fluoranthene**	**250**	**15,000**
129-00-0	**Pyrene**	**250**	**14,000**
56-55-3	**Benzo(a)anthracene**	**250**	**9,400**
218-01-9	**Chrysene**	**250**	**11,000**
205-99-2	**Benzo(b)fluoranthene**	**250**	**11,000**
207-08-9	**Benzo(k)fluoranthene**	**250**	**10,000**
50-32-8	**Benzo(a)pyrene**	**250**	**12,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**250**	**6,800**
53-70-3	**Dibenz(a,h)anthracene**	**250**	**2,400**
191-24-2	**Benzo(g,h,i)perylene**	**250**	**8,000**
198-55-0	**Perylene**	**250**	**3,600**
92-52-4	Biphenyl	250	< 250 U
581-42-0	2,6-Dimethylnaphthalene	250	< 250 U
832-69-9	**1-Methylphenanthrene**	**250**	**520**
192-97-2	**Benzo(e)pyrene**	**250**	**6,800**
2245-38-7	2,3,5-Trimethylnaphthalene	250	< 250 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracen	D

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060901.b/jt82adl.d
Lab Smp Id: JT82ADL Client Smp ID: T4-S3-01-J
Inj Date : 01-SEP-2006 11:54
Operator : VTS Inst ID: nt1.i
Smp Info : JT82A,50
Misc Info : 06-15215
Comment : 1ul Injection
Method : /chem3/nt1.i/20060901.b/simpna.m
Meth Date : 01-Sep-2006 13:32 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 5
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	14.90000	Weight of sample extracted (g)
M	33.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.824	6.824	(1.000)	409042	2.00000	
	2 Naphthalene	128	6.848	6.848	(1.003)	22309	0.10934	274.2
$	3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
	4 2-Methylnaphthalene	142	7.622	7.622	(1.117)	6963	0.05763	144.5 J
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.887	8.887	(1.000)	205791	2.00000	
	9 Acenaphthene	153	8.923	8.922	(1.004)	87843	0.86933	2180
	10 Dibenzofuran	168	9.118	9.117	(1.026)	17391	0.11684	293.0
	11 Fluorene	166	9.537	9.537	(1.073)	37691	0.32529	815.8
*	15 Phenanthrene-d10	188	10.696	10.695	(1.000)	271573	2.00000	
	16 Phenanthrene	178	10.725	10.725	(1.003)	431294	3.09406	7760
	17 Anthracene	178	10.784	10.784	(1.008)	107535	0.77196	1936
	19 Fluoranthene	202	12.214	12.214	(1.142)	835614	5.87722	14740

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.504	12.504	(0.893)	813479	5.44616	13660
	22 Benzo(a)anthracene	228	13.982	13.981	(0.998)	529622	3.78096	9483
*	23 Chrysene-d12	240	14.005	14.005	(1.000)	232613	2.00000	
	24 Chrysene	228	14.035	14.034	(1.002)	591229	4.57607	11480
	28 Benzo(b)fluoranthene	252	15.365	15.364	(0.964)	607236	4.37709	10980
	29 Benzo(k)fluoranthene	252	15.388	15.394	(0.966)	597783	4.04181	10140
	30 Benzo(a)pyrene	252	15.849	15.843	(0.995)	651796	4.82171	12090
*	31 Perylene-d12	264	15.932	15.926	(1.000)	245812	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.853	17.847	(1.121)	425206	2.73522	6860
$	32 Dibenz(a,h)anthrancene-d14	292	Compound Not Detected.					
	34 Dibenz(a,h)anthracene	278	17.829	17.841	(1.119)	121939	0.96017	2408
	35 Benzo(g,h,i)perylene	276	18.420	18.420	(1.156)	416345	3.22189	8080
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
	50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
	51 1-Methylphenanthrene	192	11.499	11.499	(0.821)	19806	0.20801	521.7
	52 Benzo(e)pyrene	252	15.766	15.766	(0.990)	410415	2.74282	6879
	53 Perylene	252	15.967	15.967	(1.002)	202229	1.43941	3610

VTS

9/1/2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82adl.d
Lab Smp Id: JT82ADL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060901.b/simpna.m
Misc Info: 06-15215

Calibration Date: 01-SEP-2006
Calibration Time: 11:30
Client Smp ID: T4-S3-01-J
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	410913	205456	821826	409042	-0.46
8 Acenaphthene-d10	204164	102082	408328	205791	0.80
15 Phenanthrene-d10	267547	133774	535094	271573	1.50
23 Chrysene-d12	200701	100350	401402	232613	15.90
31 Perylene-d12	204542	102271	409084	245812	20.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.82	0.00
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.00
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.00
23 Chrysene-d12	14.00	13.50	14.50	14.01	0.00
31 Perylene-d12	15.93	15.43	16.43	15.93	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

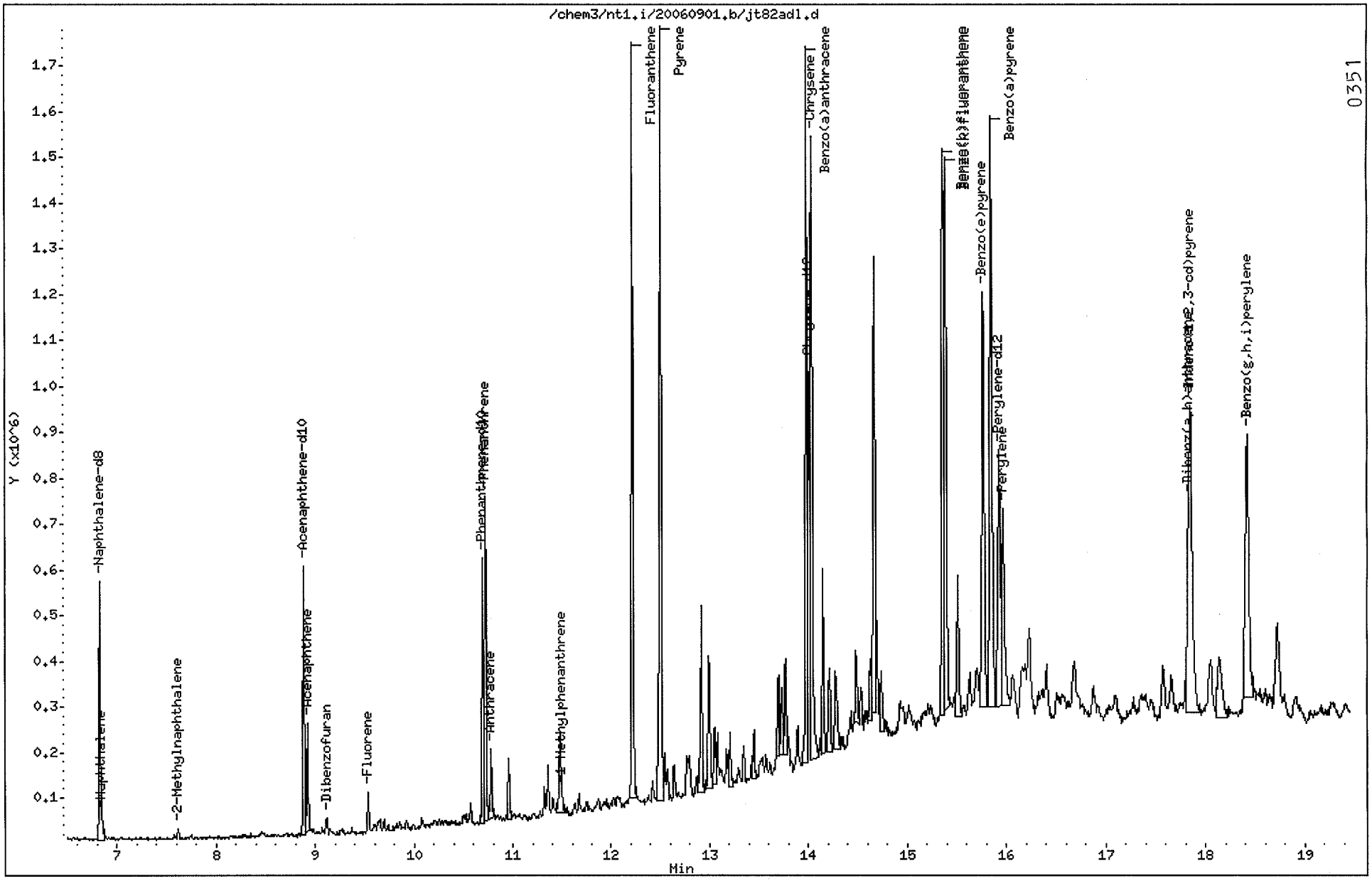
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82ADL
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060901.b/simpna.m
Misc Info: 06-15215

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-01-J
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthale	150.5	0.000	*	32-97
$ 32 Dibenz(a,h)anthra	150.5	0.000	*	21-105

Data File: /chem3/nt1.i/20060901.b/jt82ad1.d
Date : 01-SEP-2006 11:54
Client ID: T4-S3-01-J
Sample Info: JT82A,50
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060901.b/jt82ad1.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

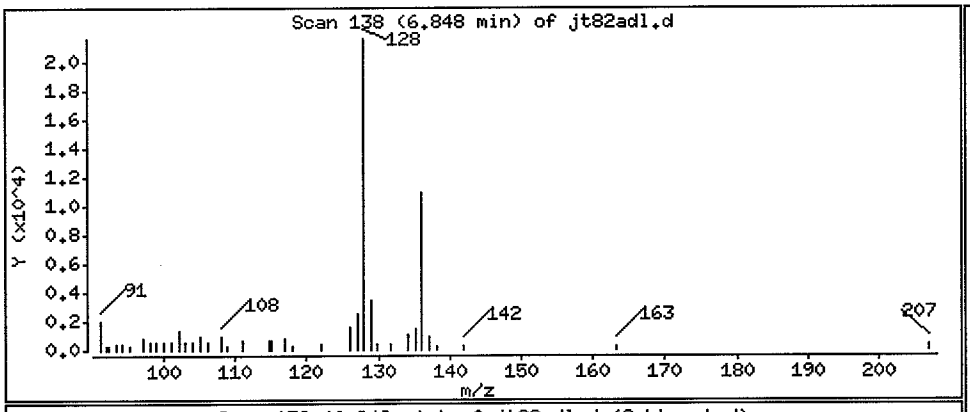
Operator: VTS

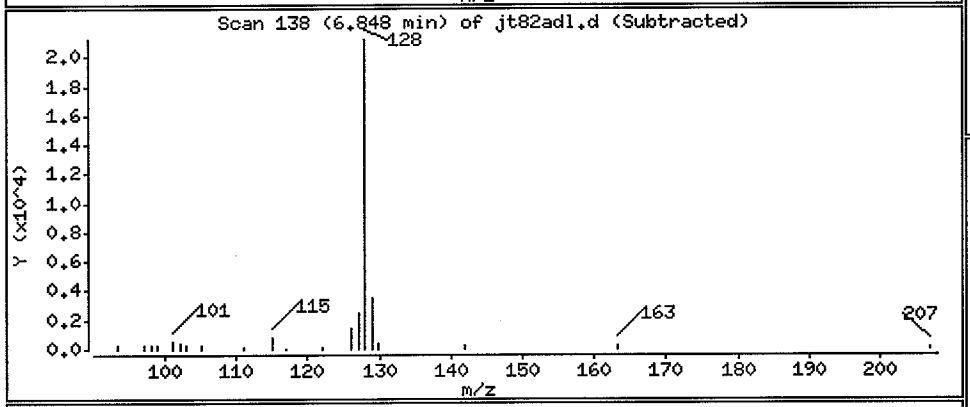
Column phase: ZB-5

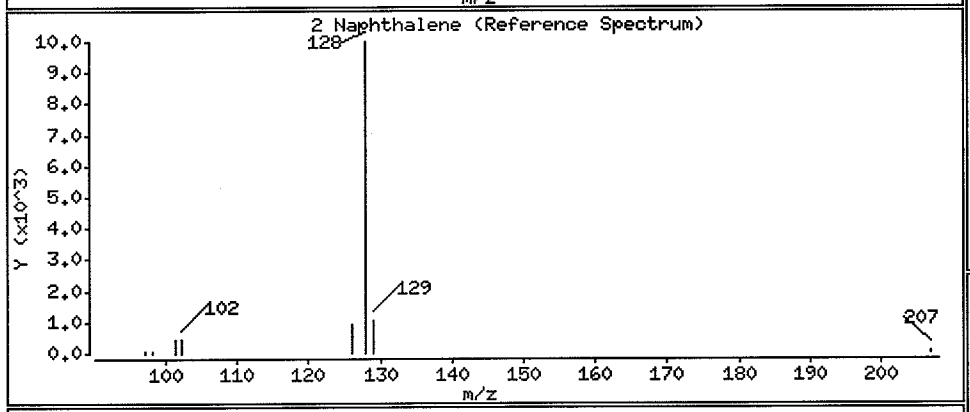
Column diameter: 0.25

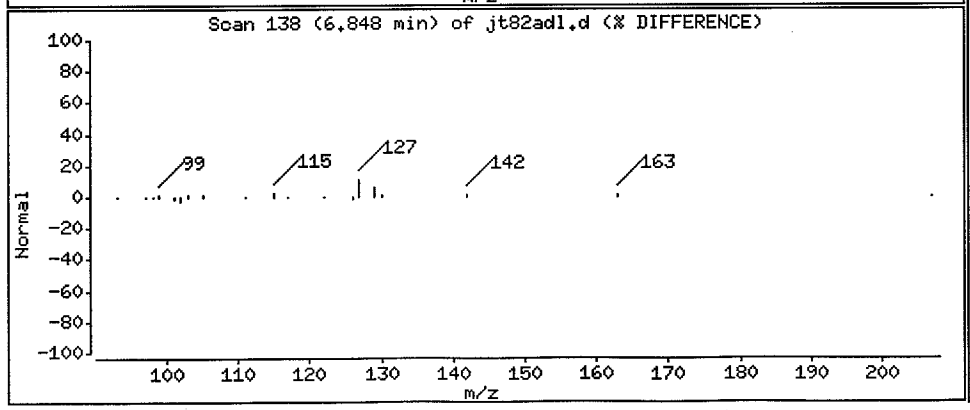
2 Naphthalene

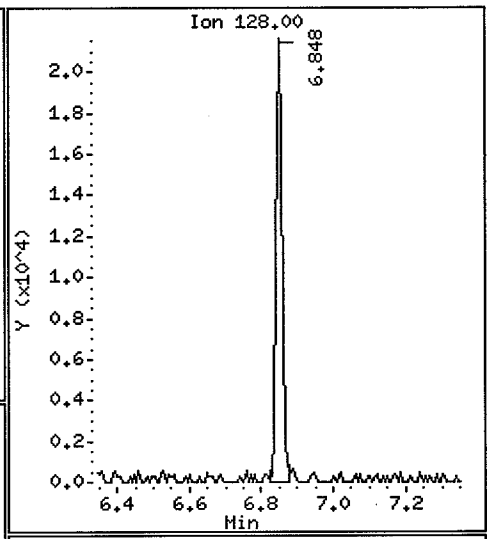
Concentration: 274.2 ug/kg

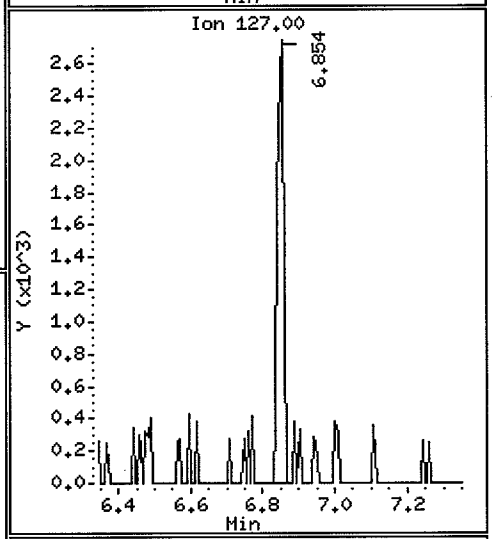


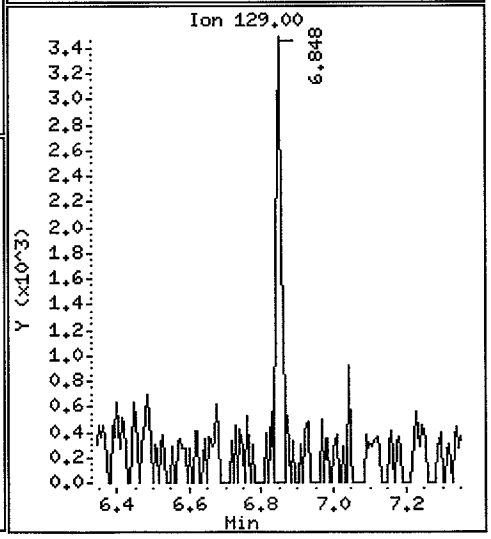












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

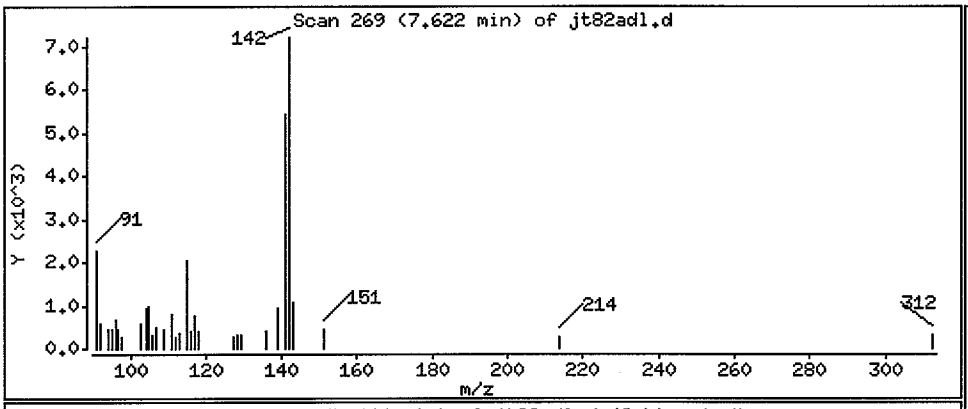
Operator: VTS

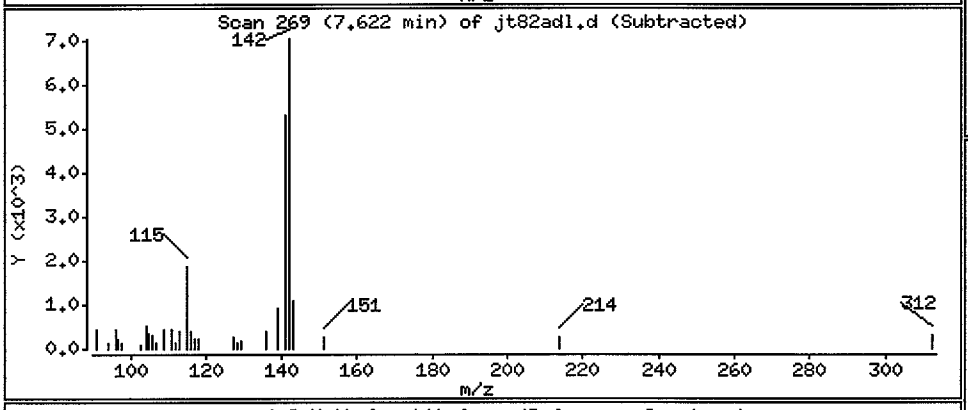
Column phase: ZB-5

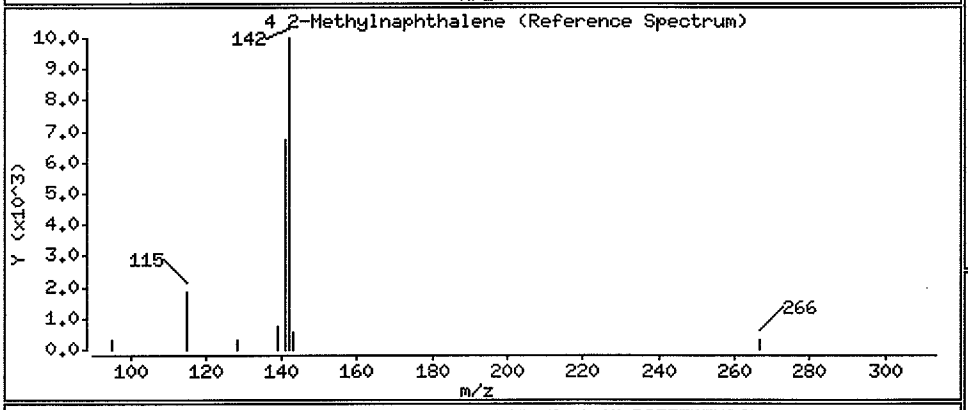
Column diameter: 0.25

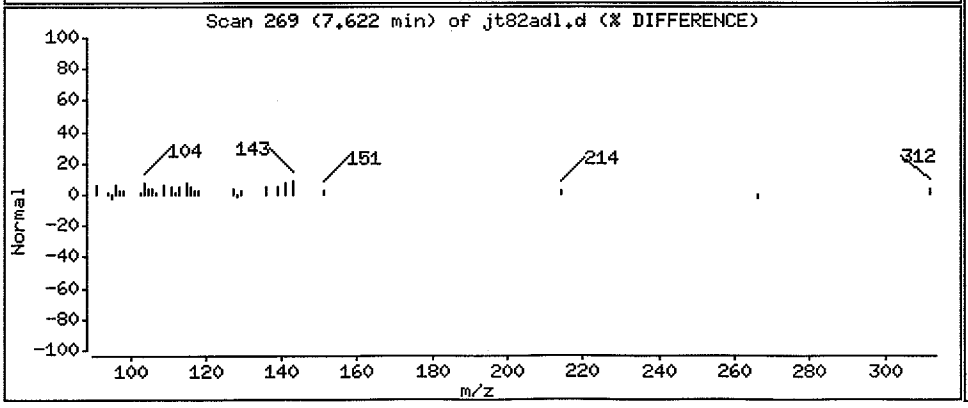
4 2-Methylnaphthalene

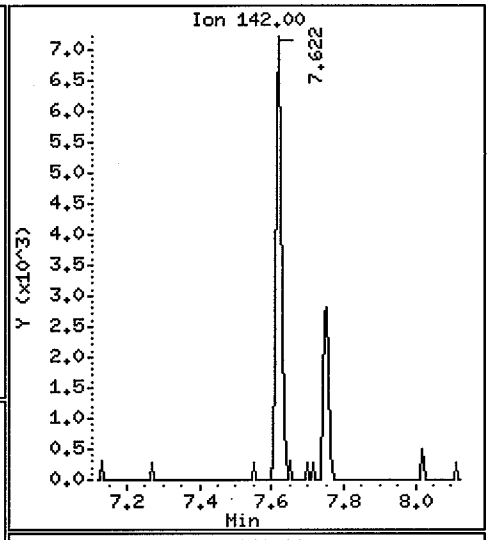
Concentration: 144.5 ug/kg

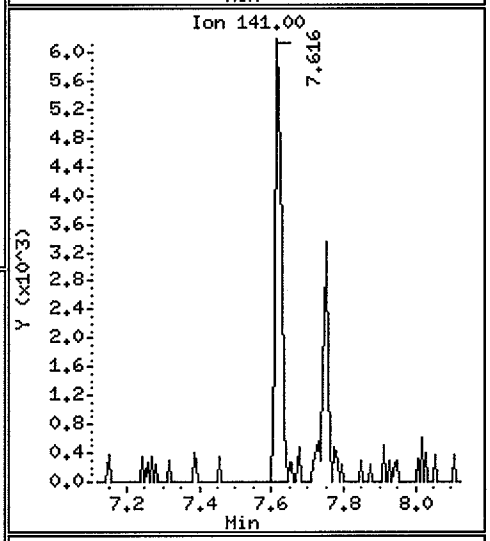


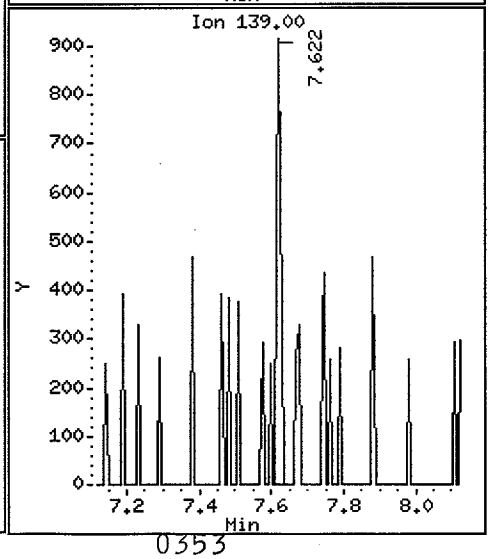












Data File: /chem3/nt1.i/20060901.b/jt82ad1.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

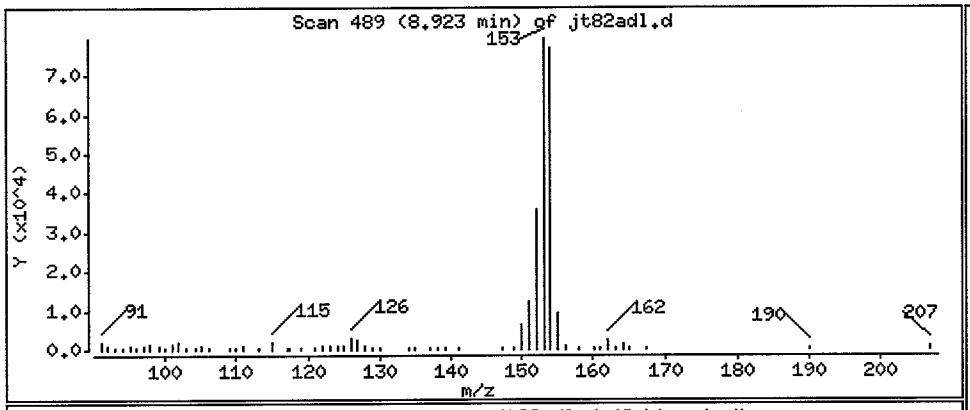
Operator: VTS

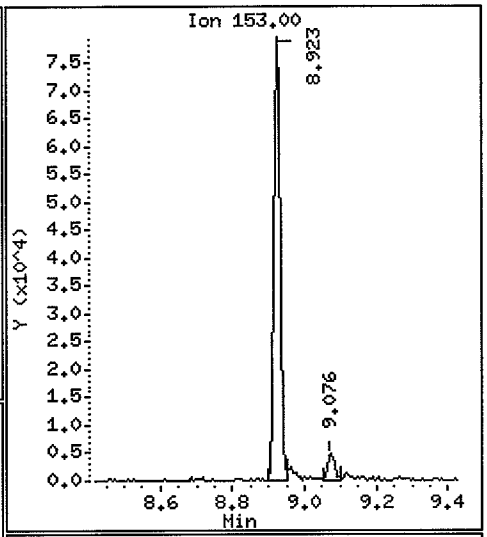
Column phase: ZB-5

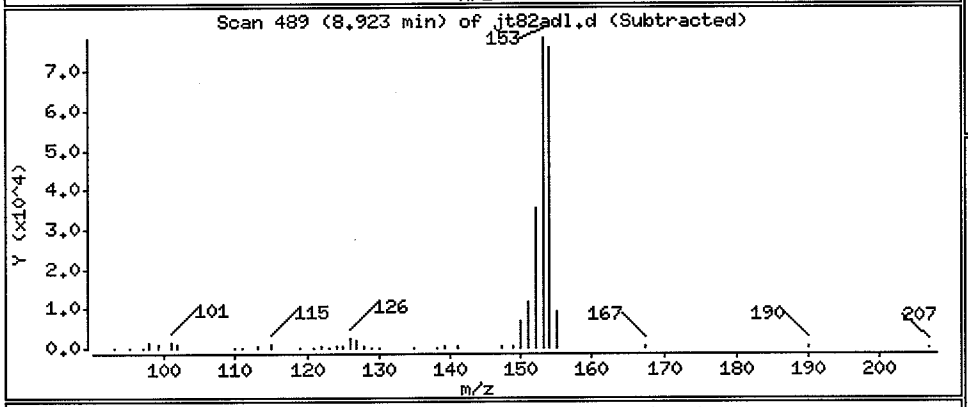
Column diameter: 0.25

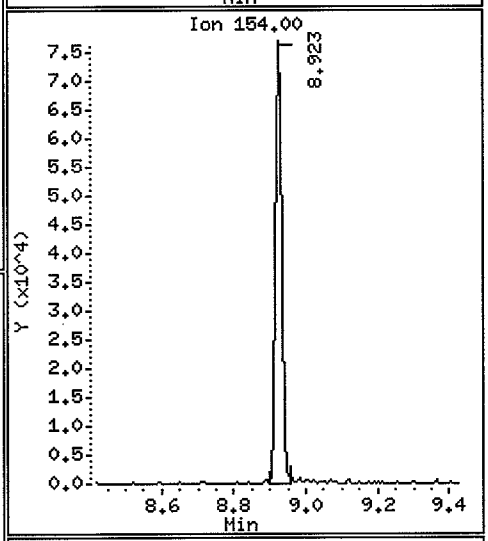
9 Acenaphthene

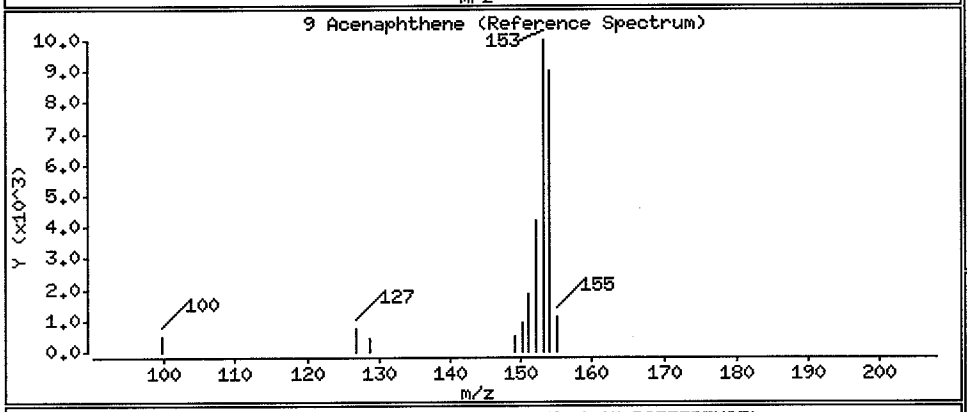
Concentration: 2180 ug/kg

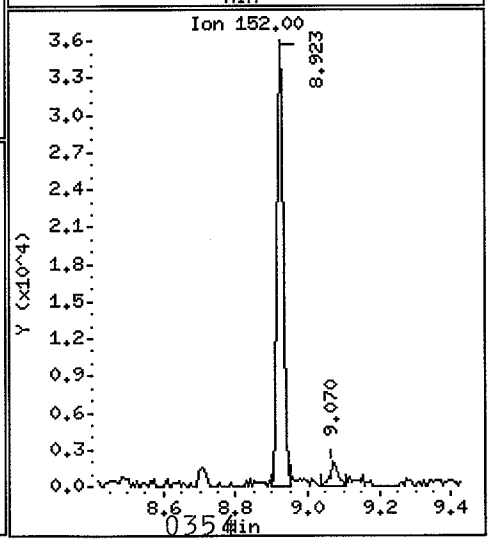


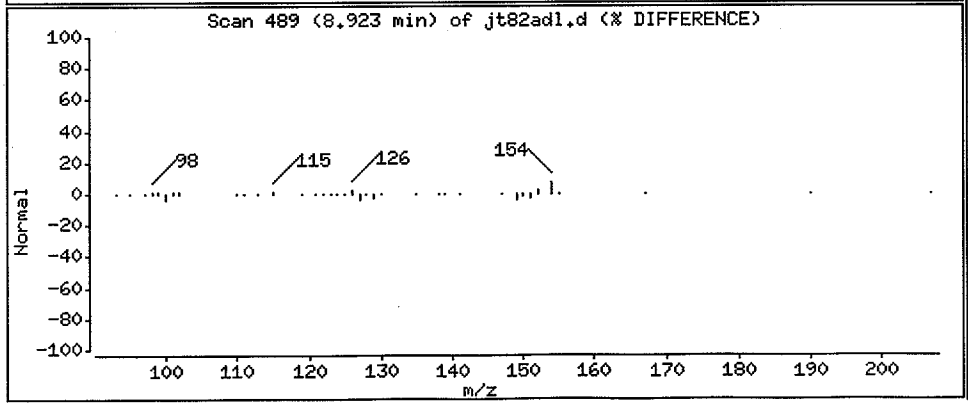












Data File: /chem3/nt1.i/20060901.b/jt82ad1.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

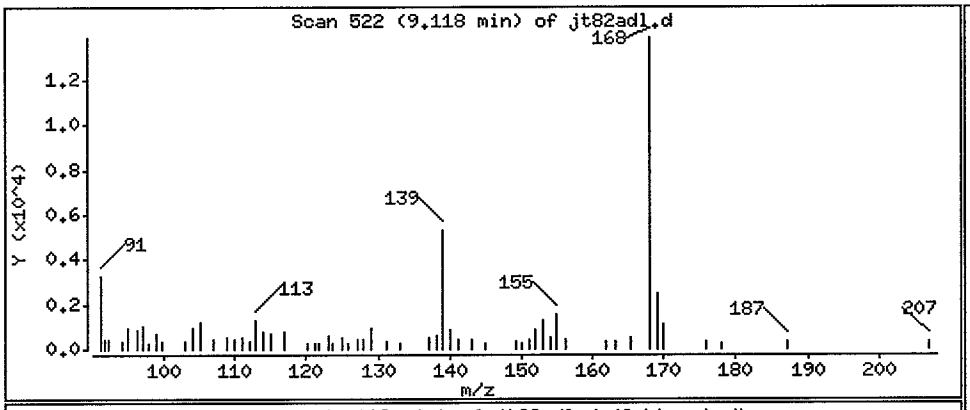
Operator: VTS

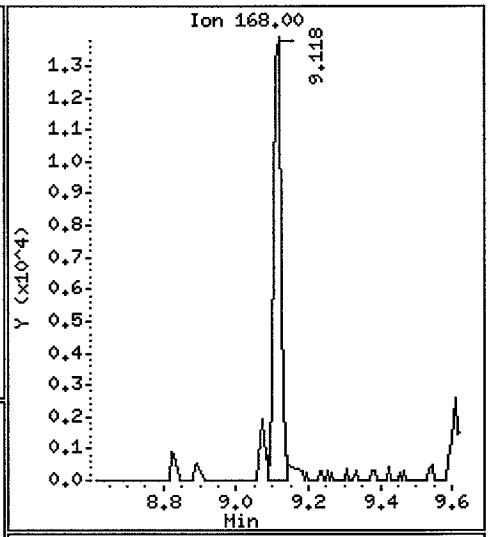
Column phase: ZB-5

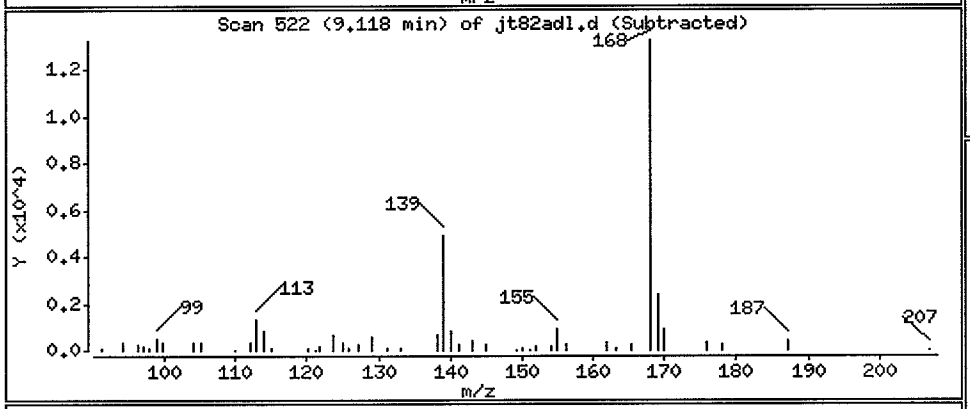
Column diameter: 0.25

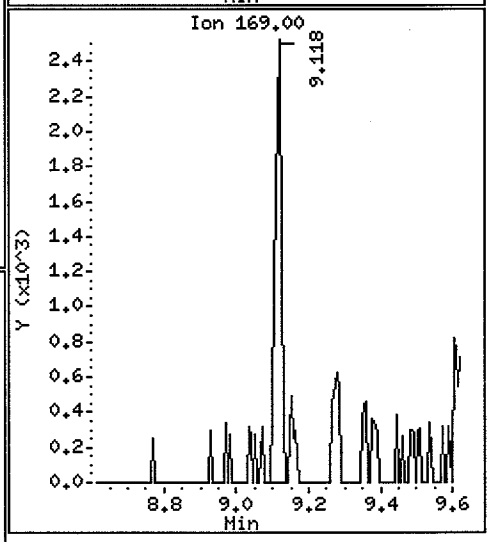
10 Dibenzofuran

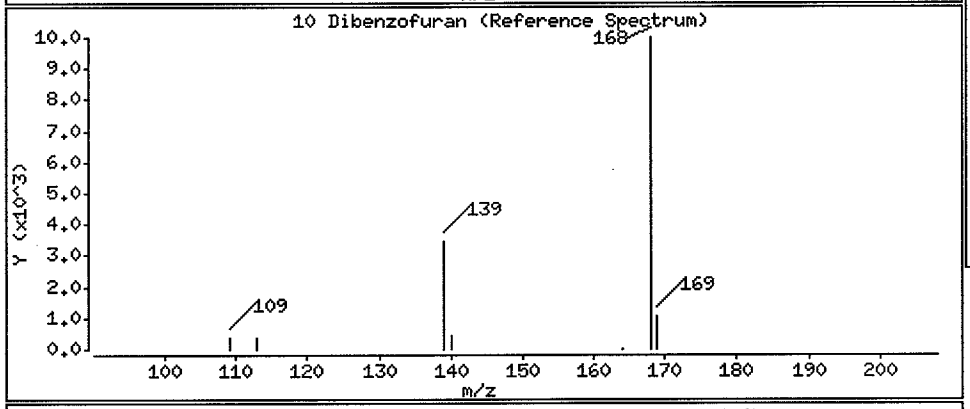
Concentration: 293.0 ug/kg

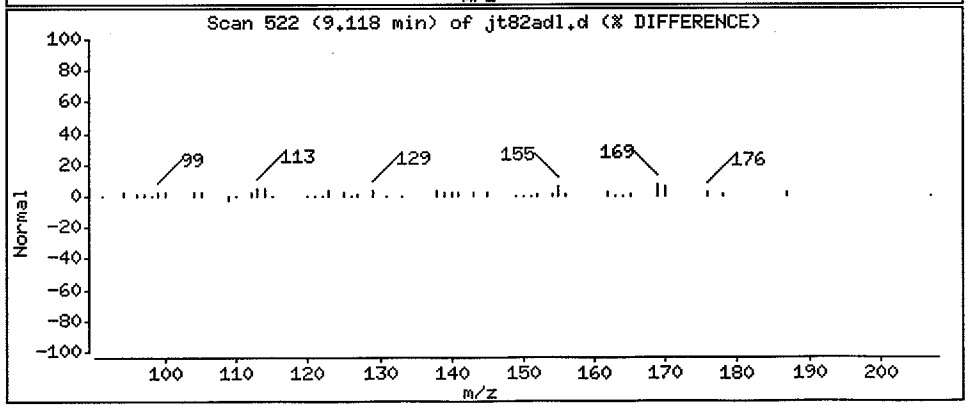












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

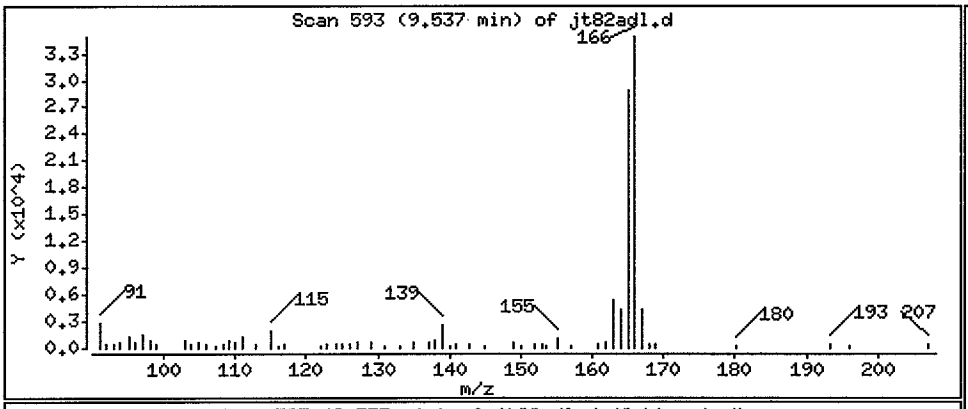
Operator: VTS

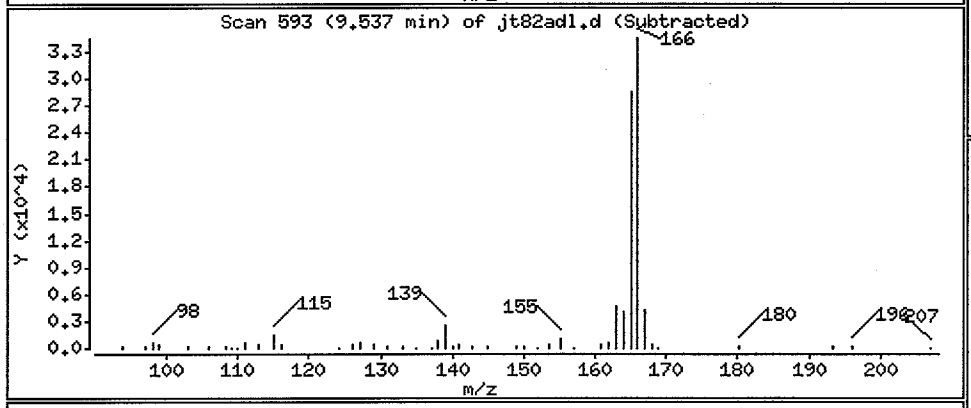
Column phase: ZB-5

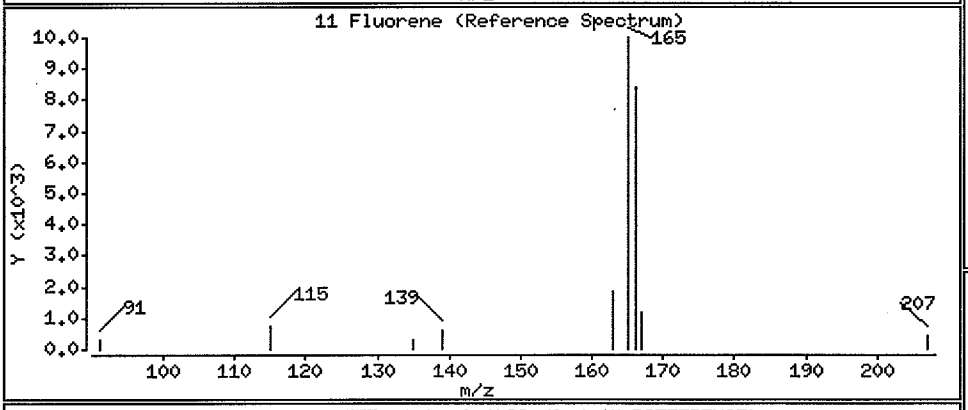
Column diameter: 0.25

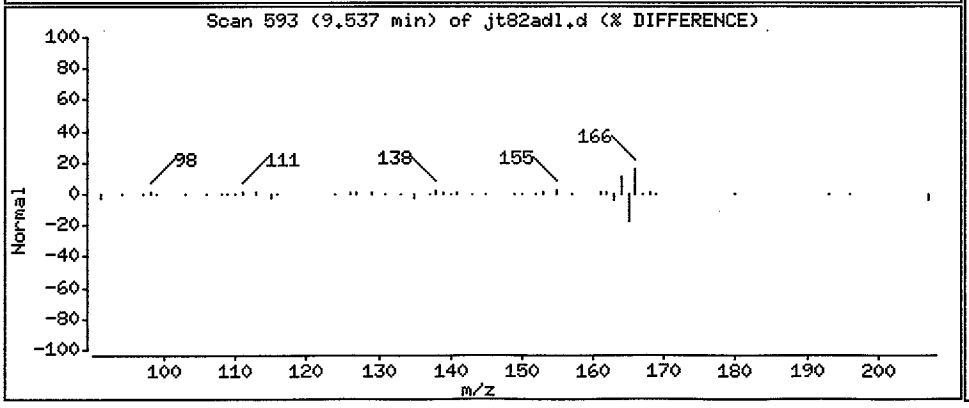
11 Fluorene

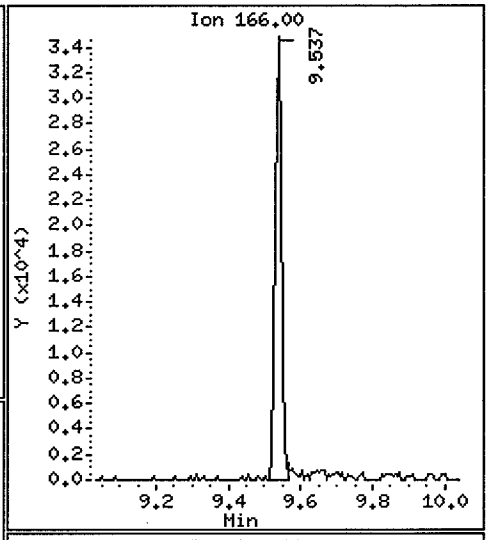
Concentration: 815.8 ug/kg

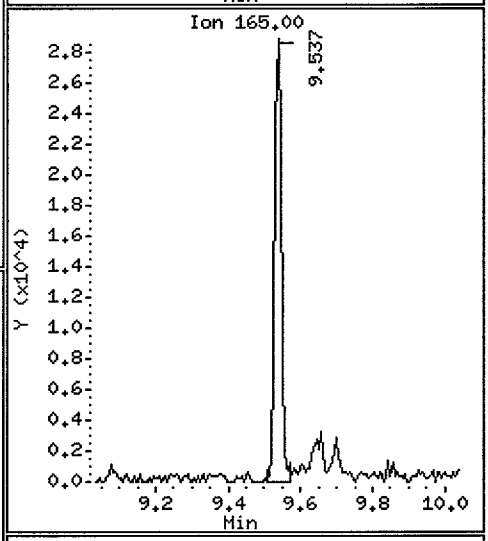


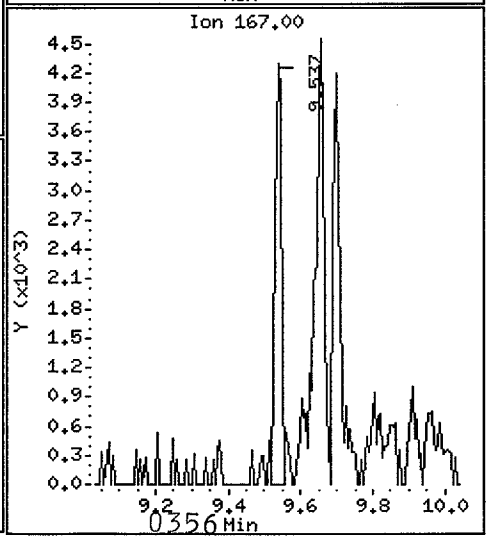












Data File: /chem3/nt1.i/20060901.b/jt82ad1.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

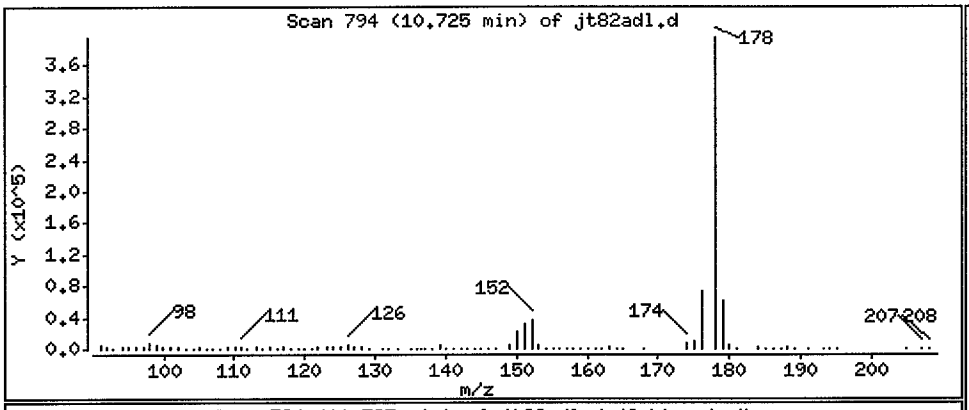
Operator: VTS

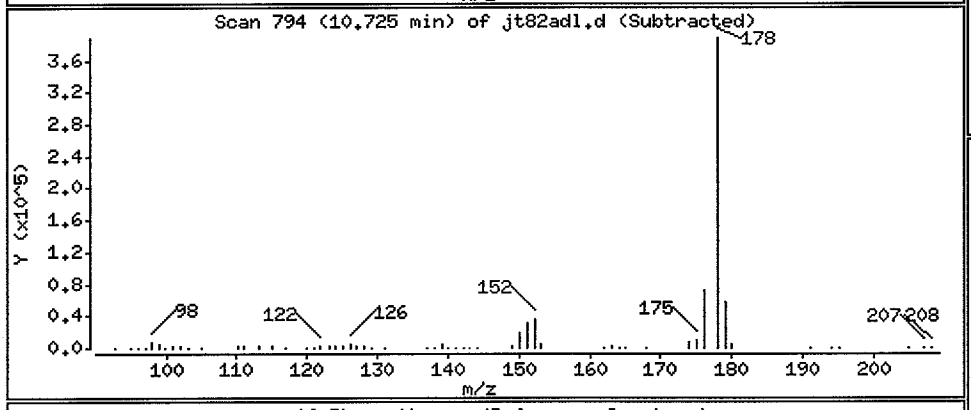
Column phase: ZB-5

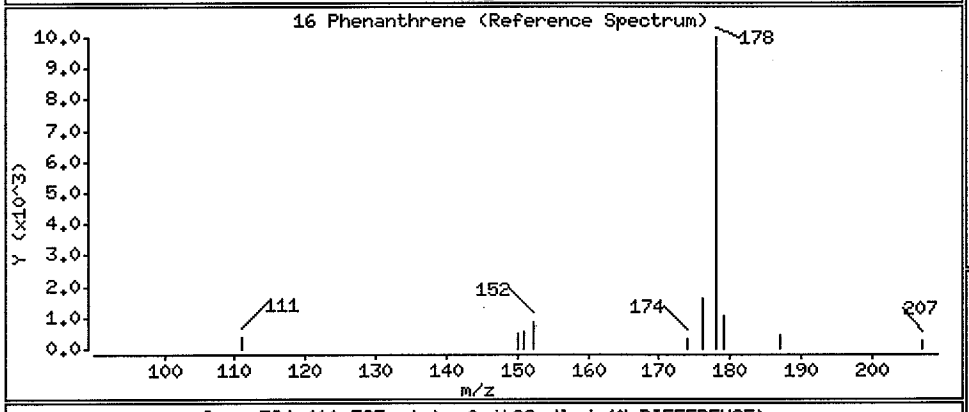
Column diameter: 0.25

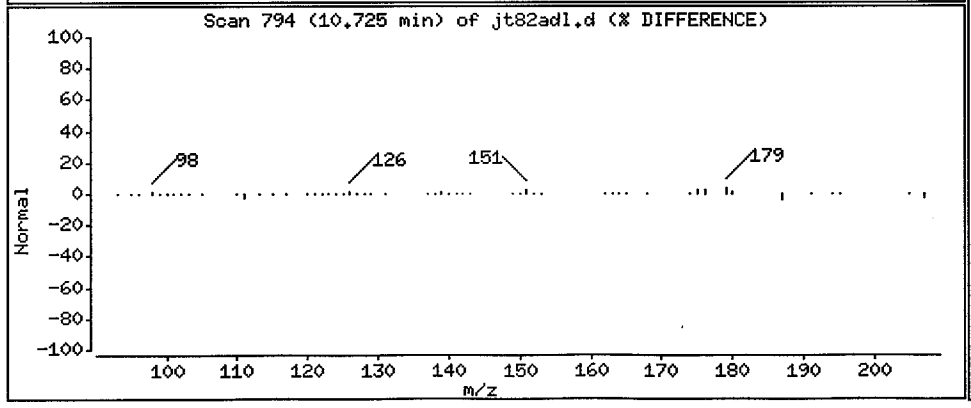
16 Phenanthrene

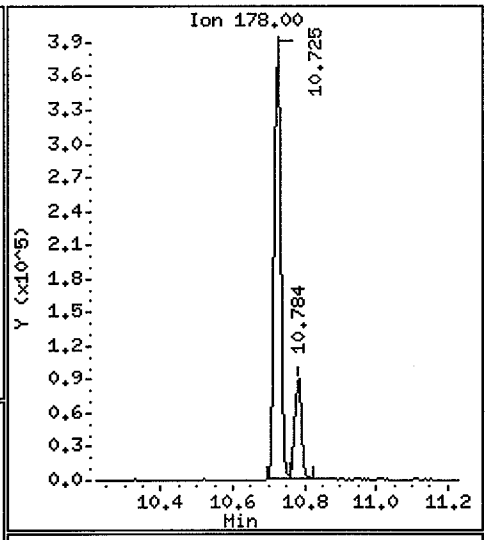
Concentration: 7760 ug/kg

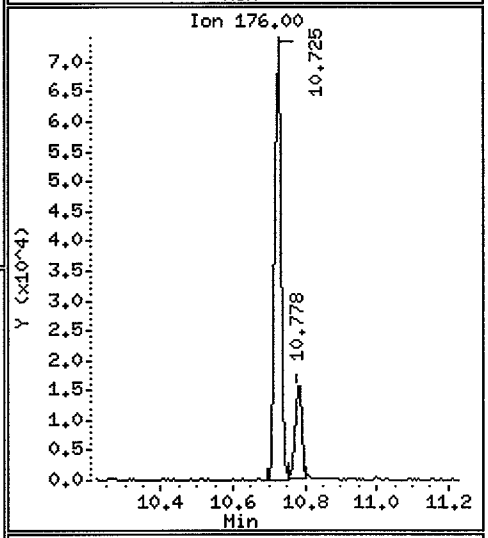


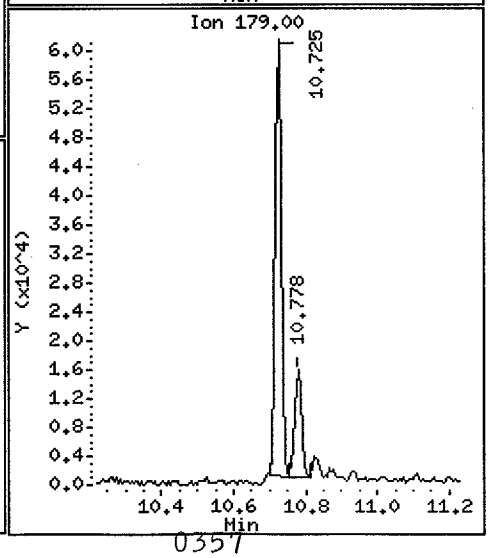












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

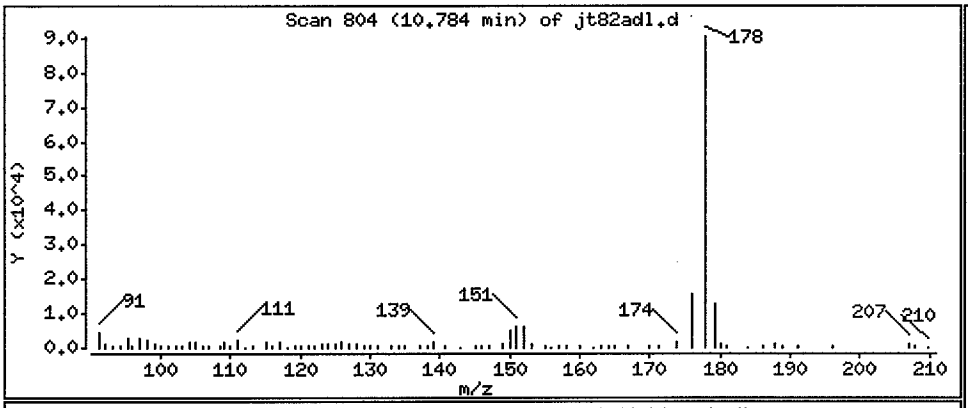
Operator: VTS

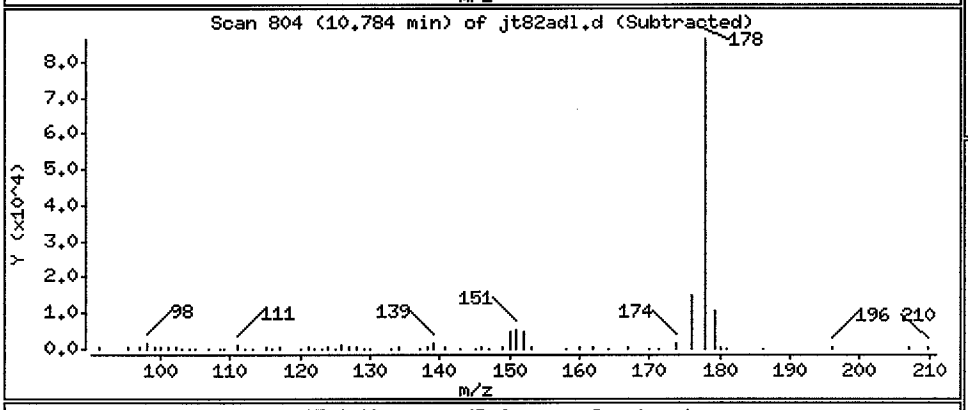
Column phase: ZB-5

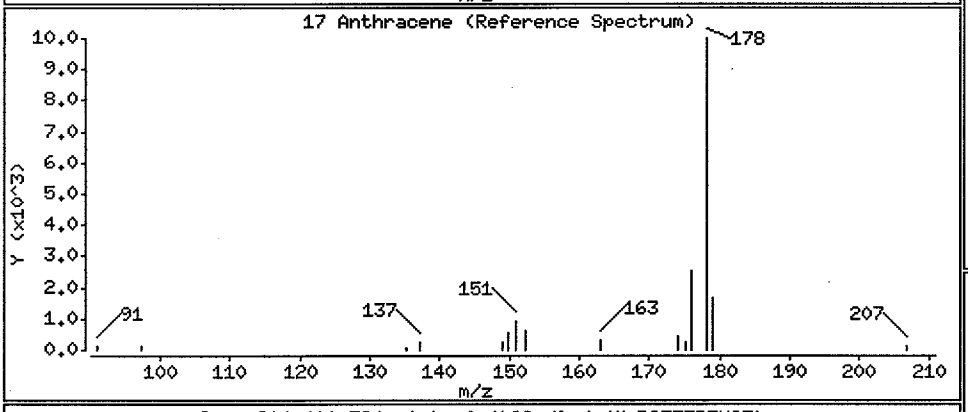
Column diameter: 0.25

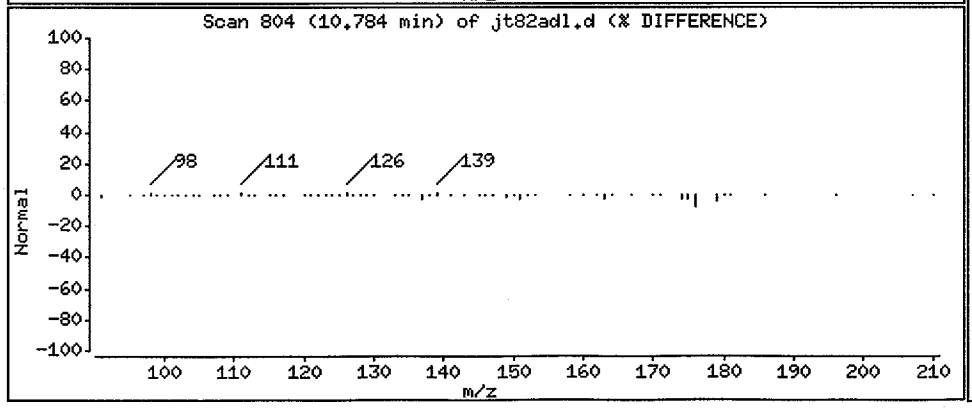
17 Anthracene

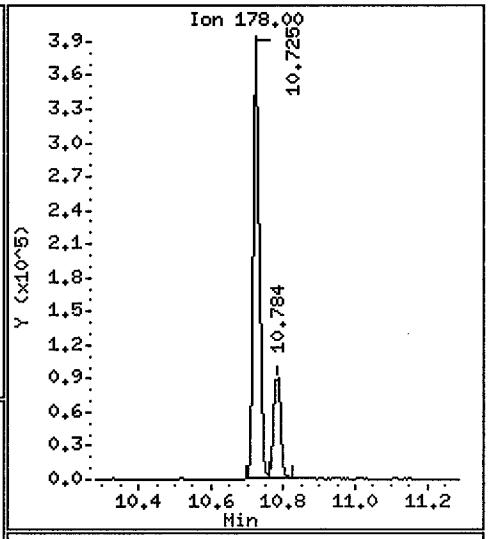
Concentration: 1936 ug/kg

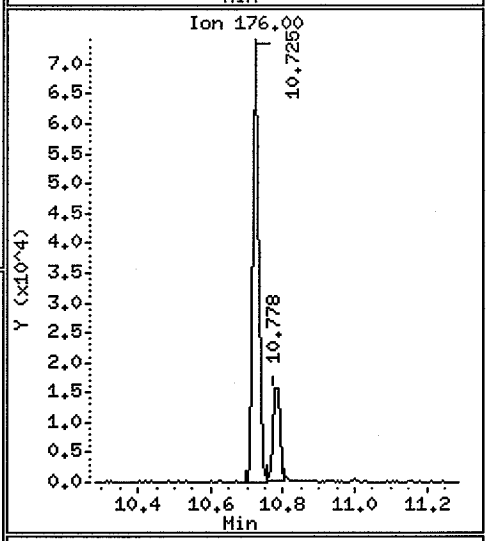


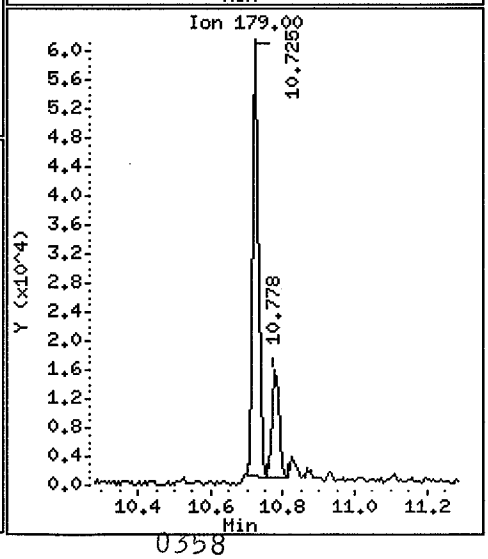












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

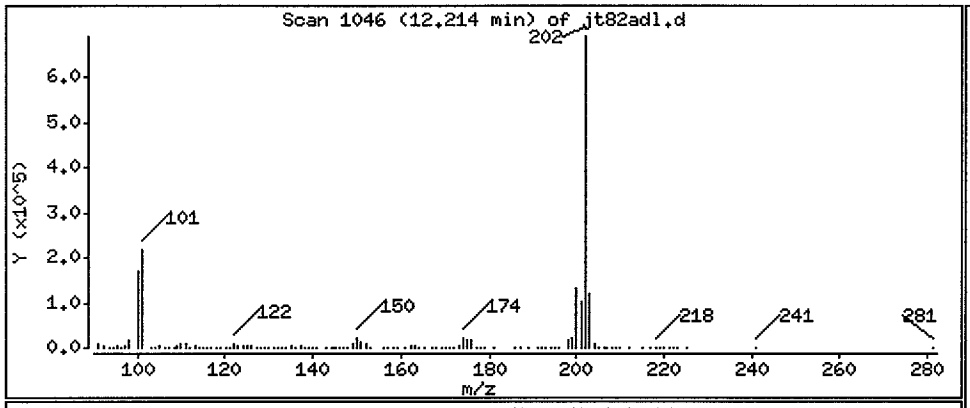
Operator: VTS

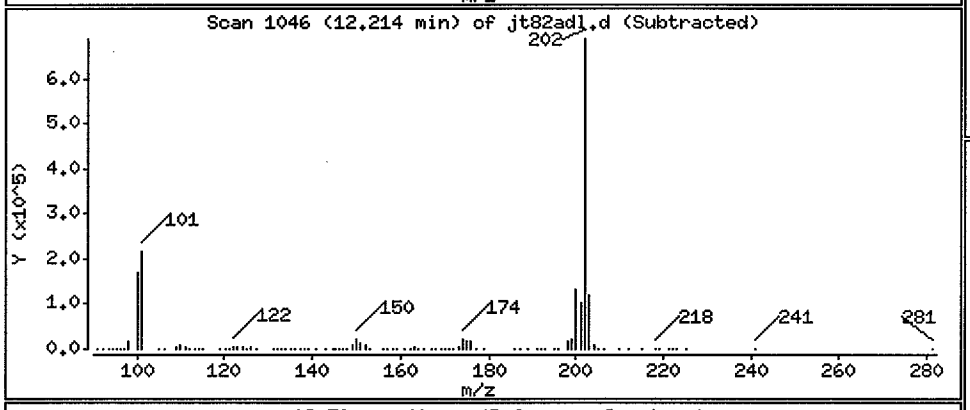
Column phase: ZB-5

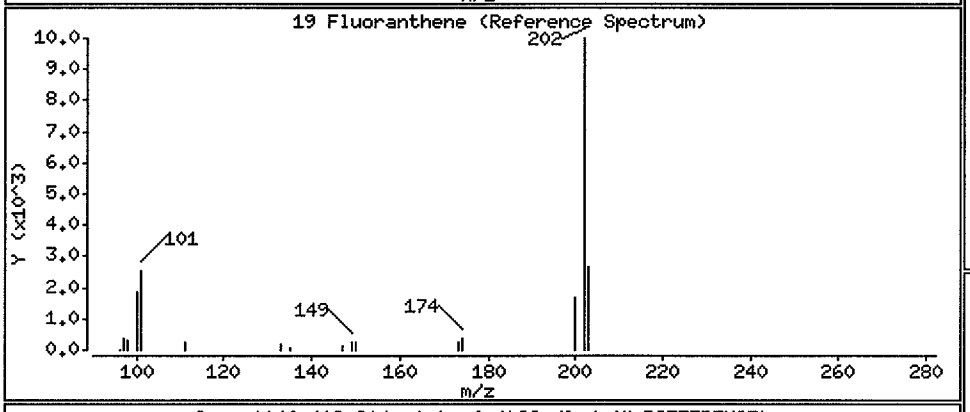
Column diameter: 0.25

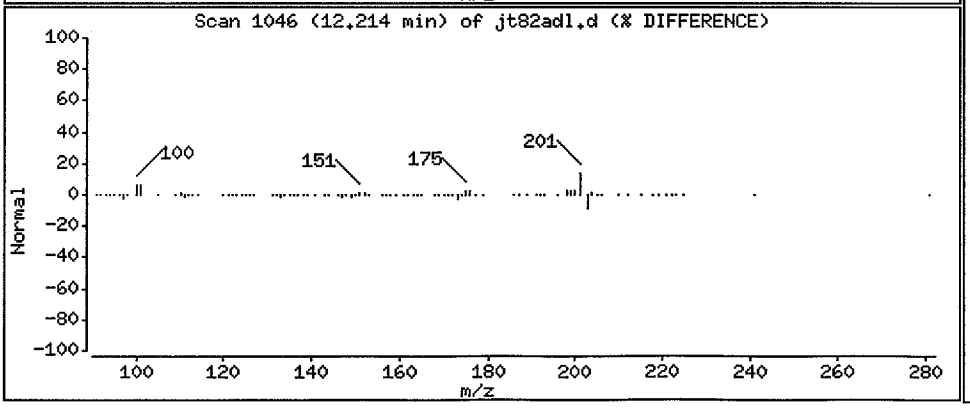
19 Fluoranthene

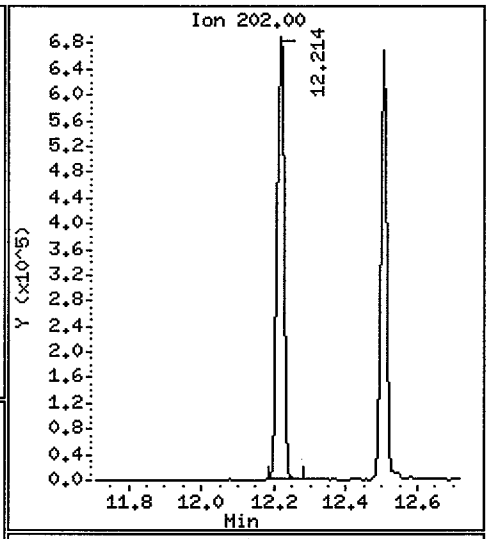
Concentration: 14740 ug/kg

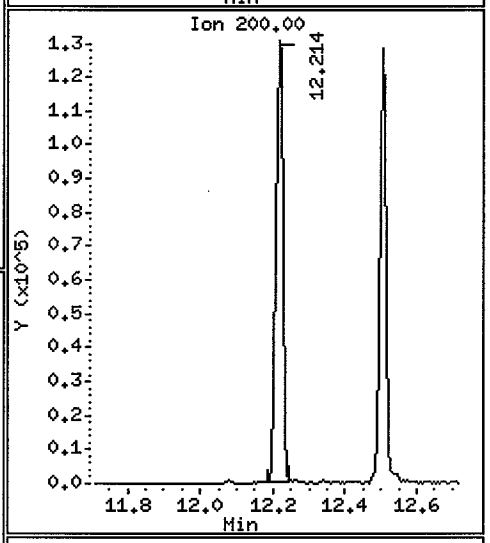


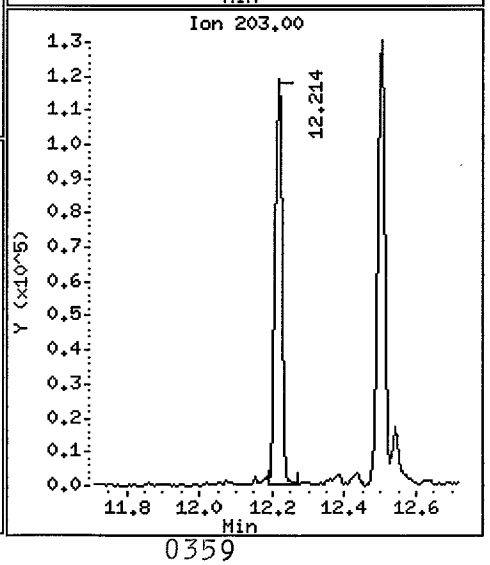












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

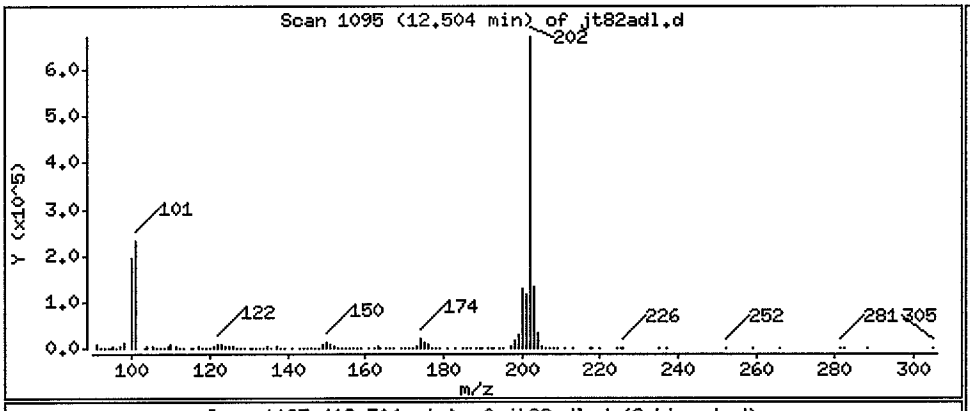
Operator: VTS

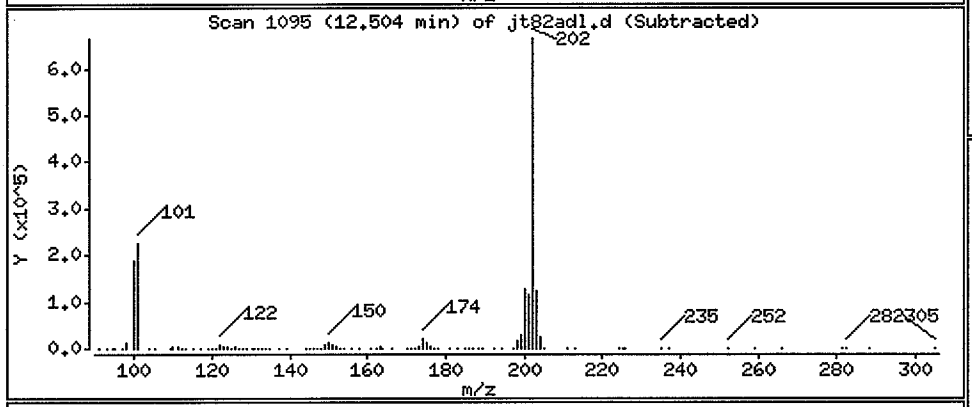
Column phase: ZB-5

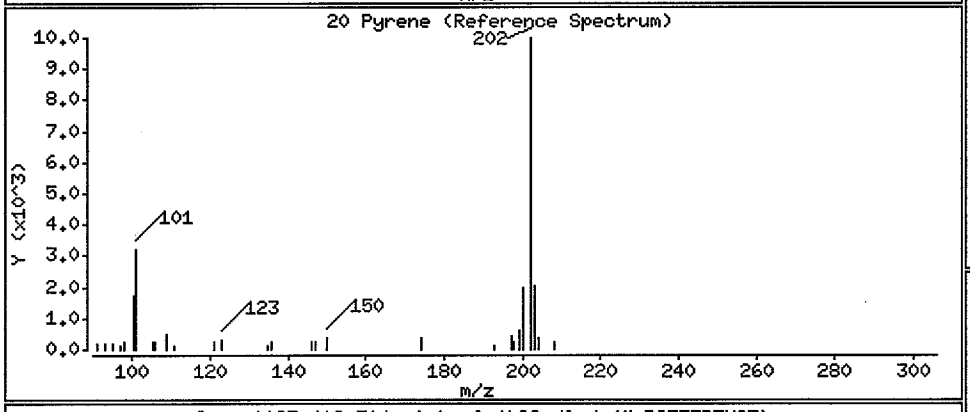
Column diameter: 0.25

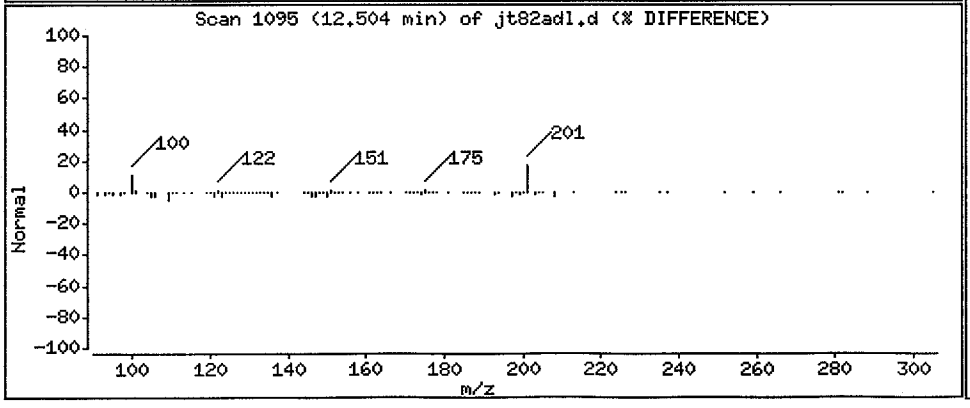
20 Pyrene

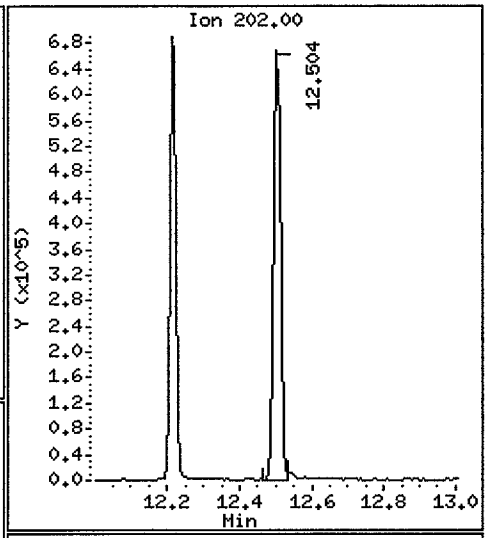
Concentration: 13660 ug/kg

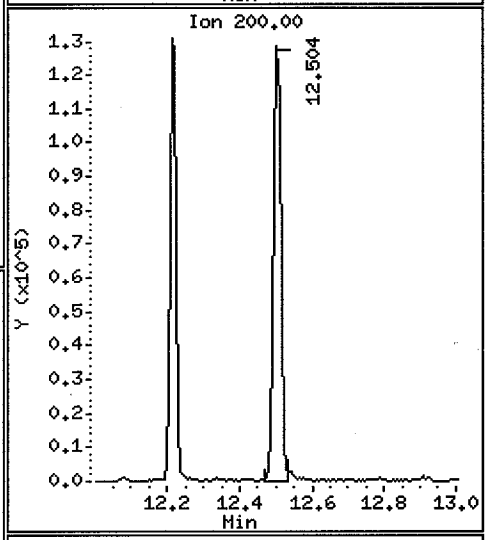


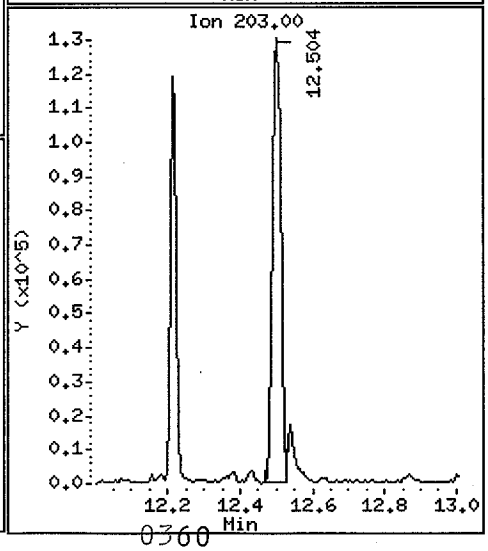












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

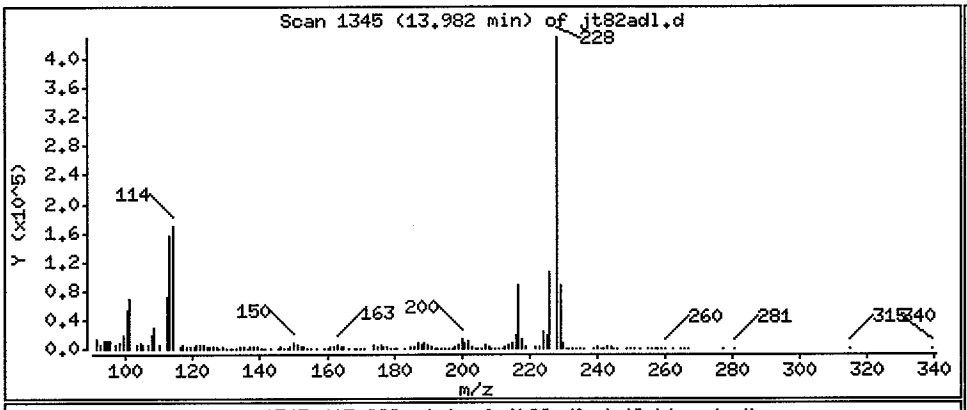
Operator: VTS

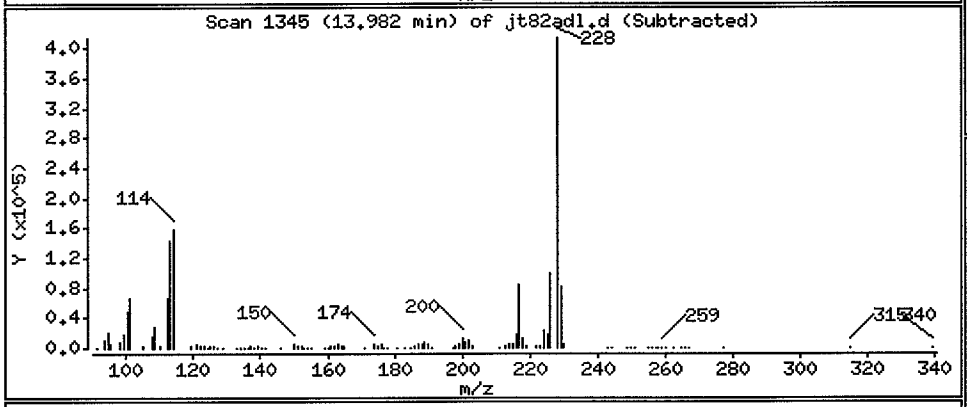
Column phase: ZB-5

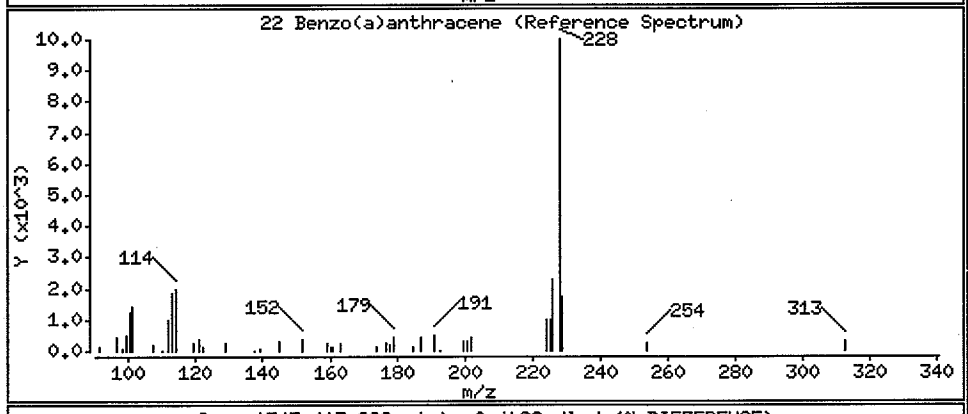
Column diameter: 0.25

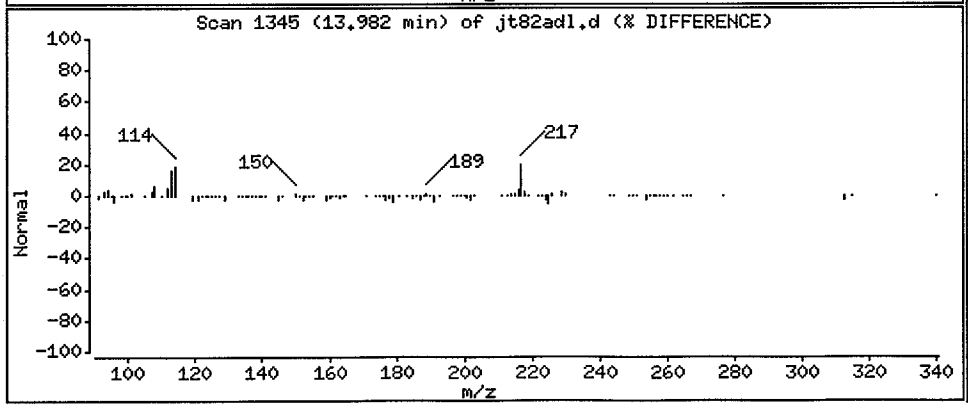
22 Benzo(a)anthracene

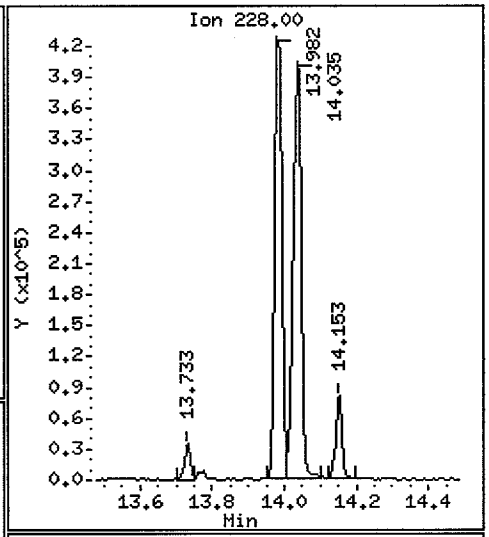
Concentration: 9483 ug/kg

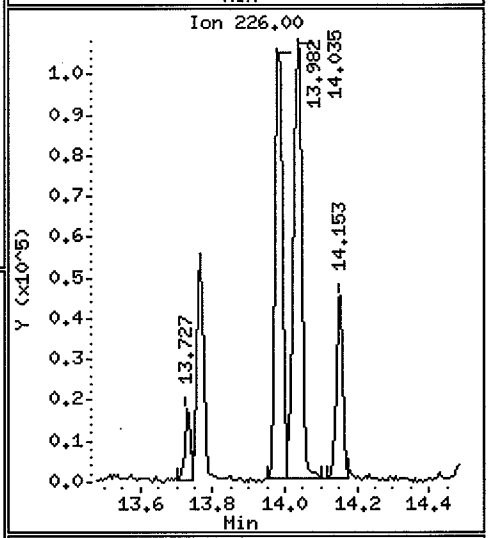


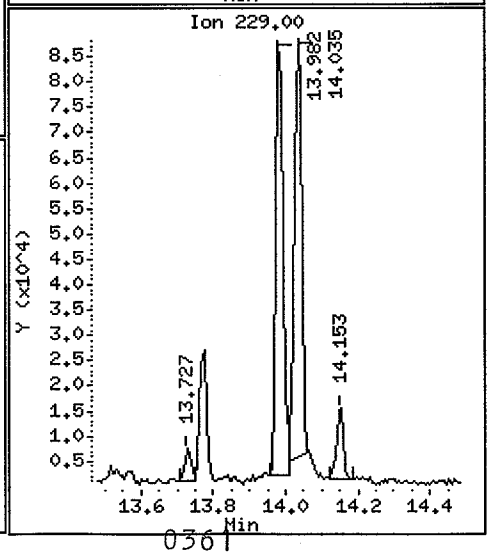












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

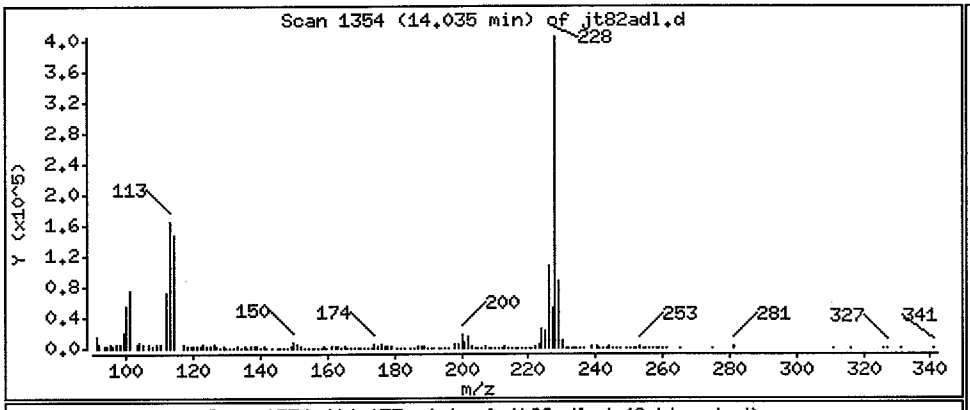
Operator: VTS

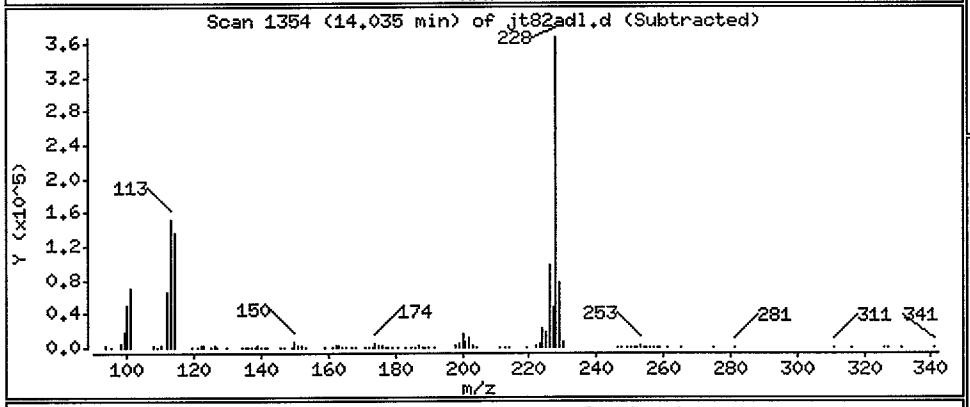
Column phase: ZB-5

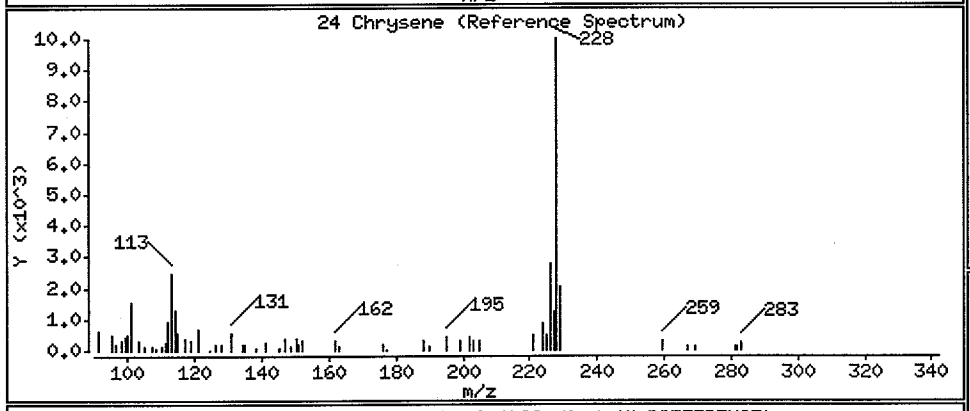
Column diameter: 0.25

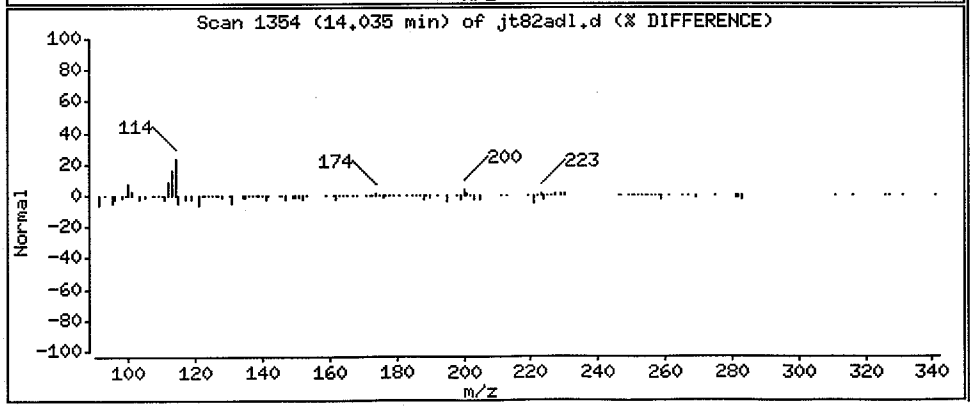
24 Chrysene

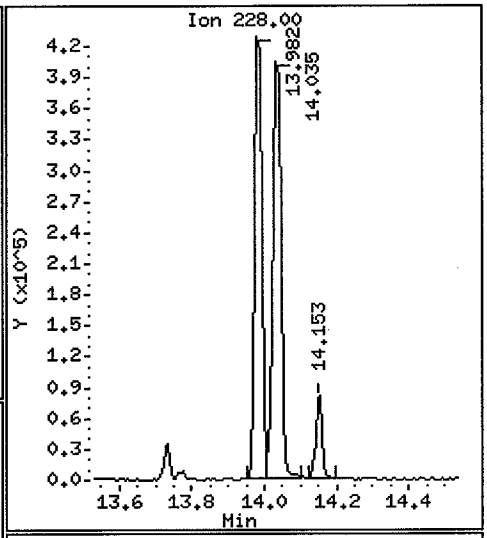
Concentration: 11480 ug/kg

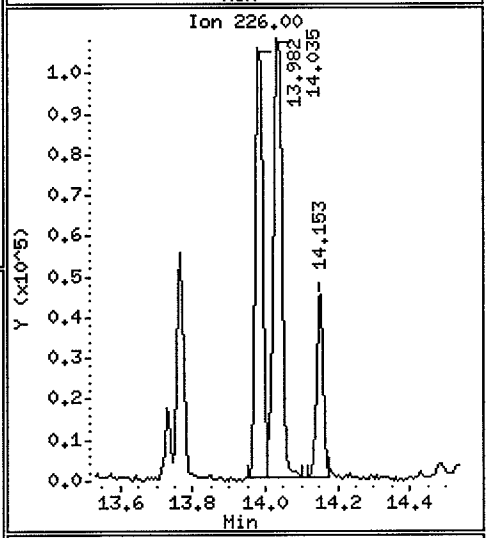


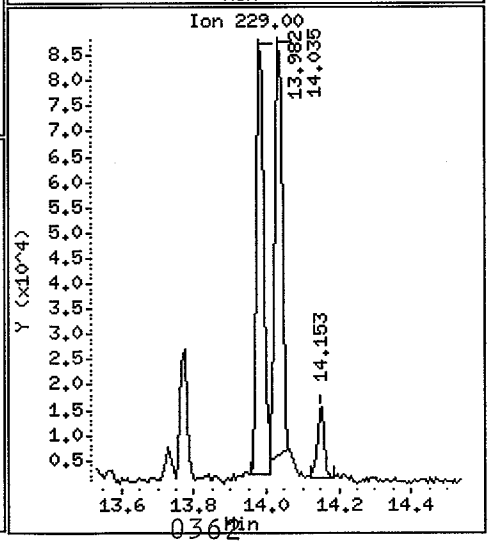












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

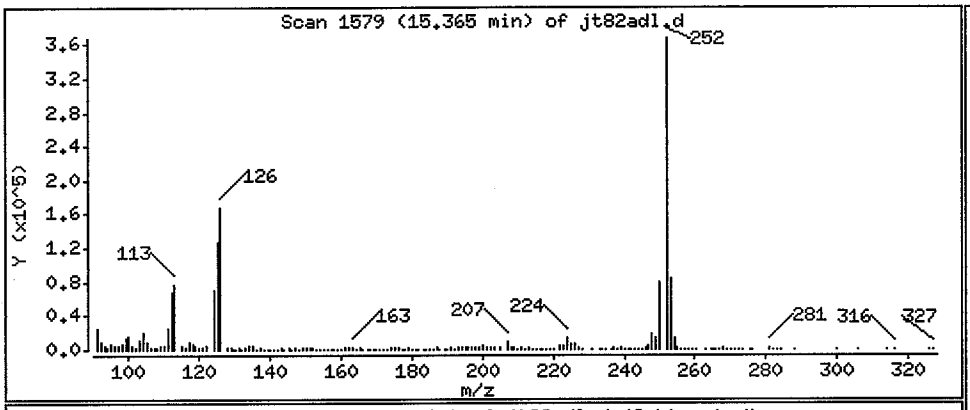
Operator: VTS

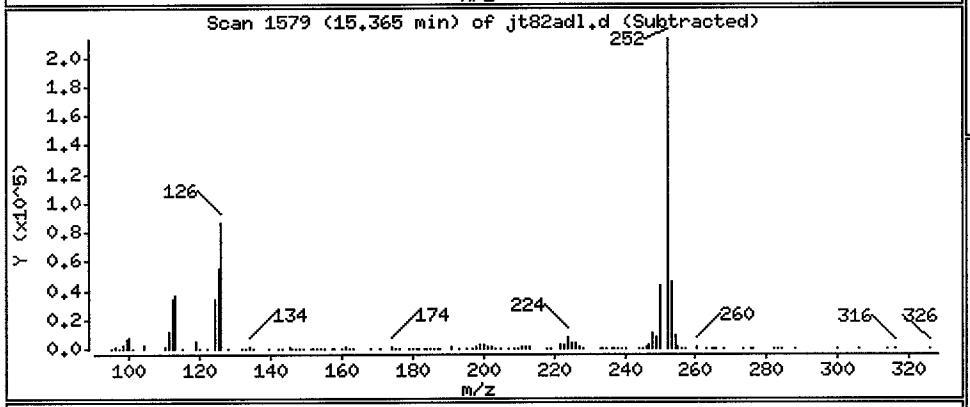
Column phase: ZB-5

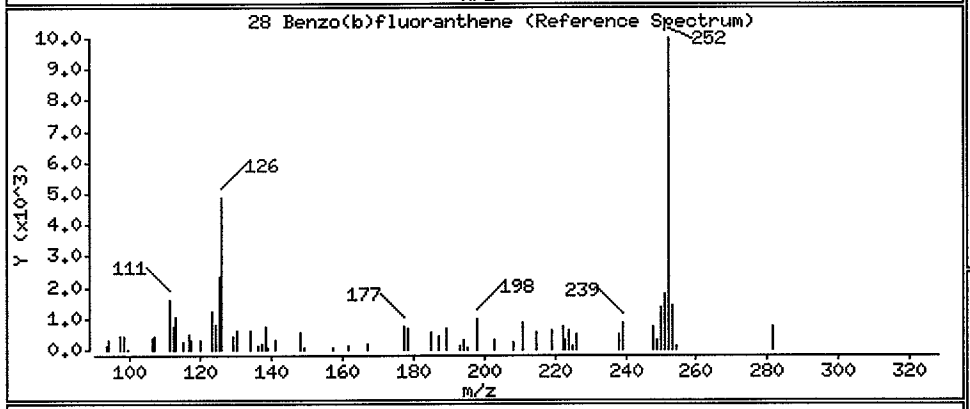
Column diameter: 0.25

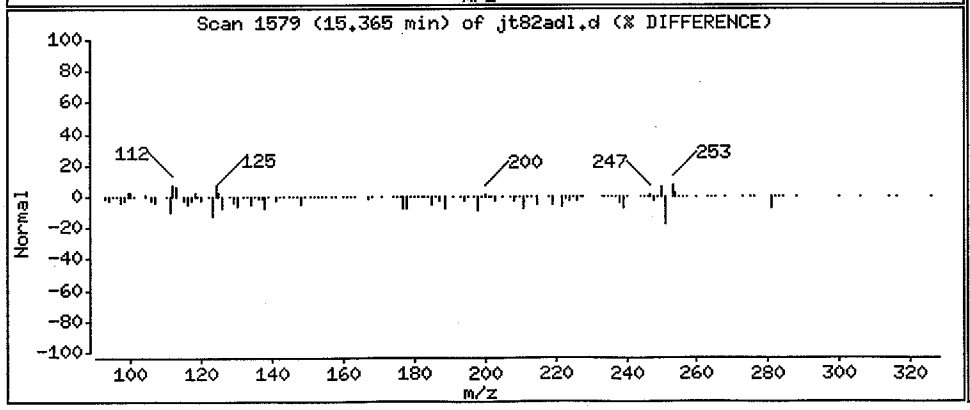
28 Benzo(b)fluoranthene

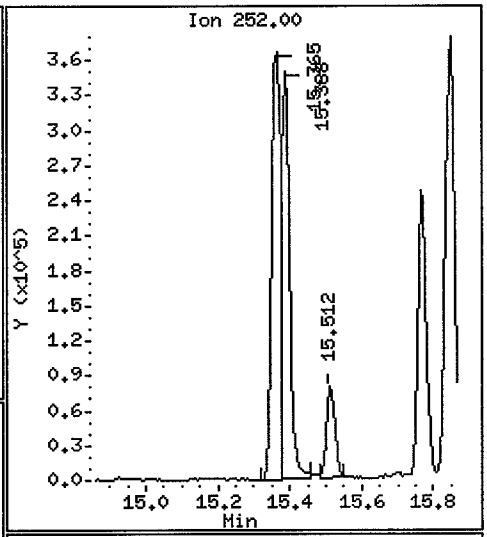
Concentration: 10980 ug/kg

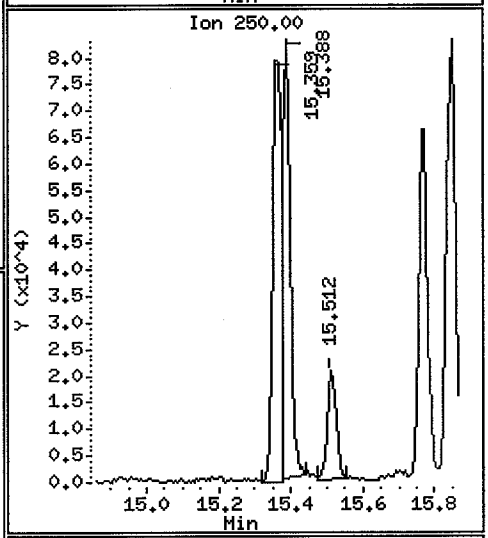


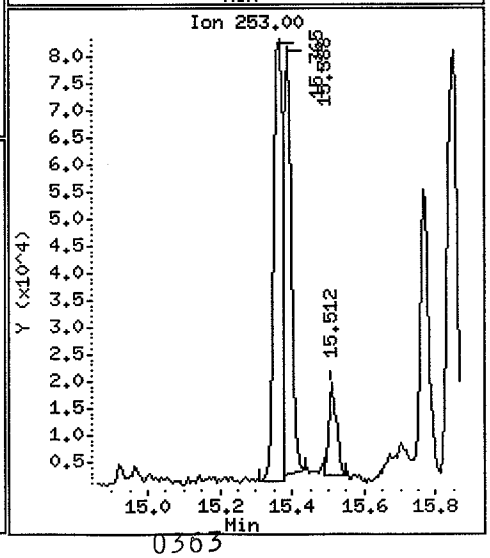












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

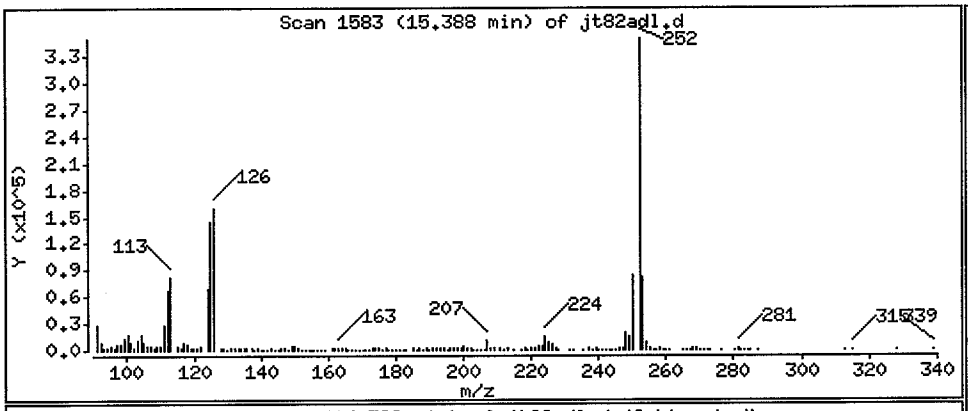
Operator: VTS

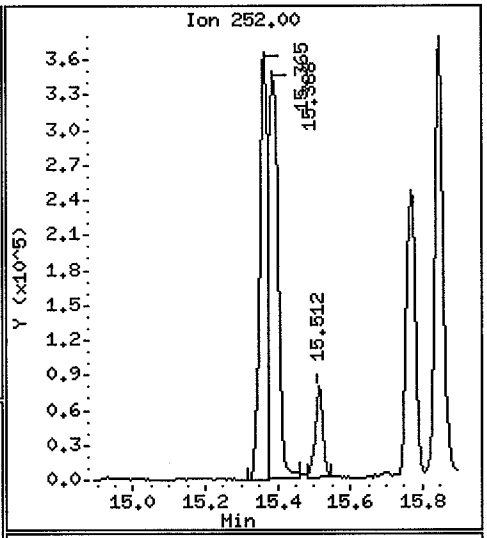
Column phase: ZB-5

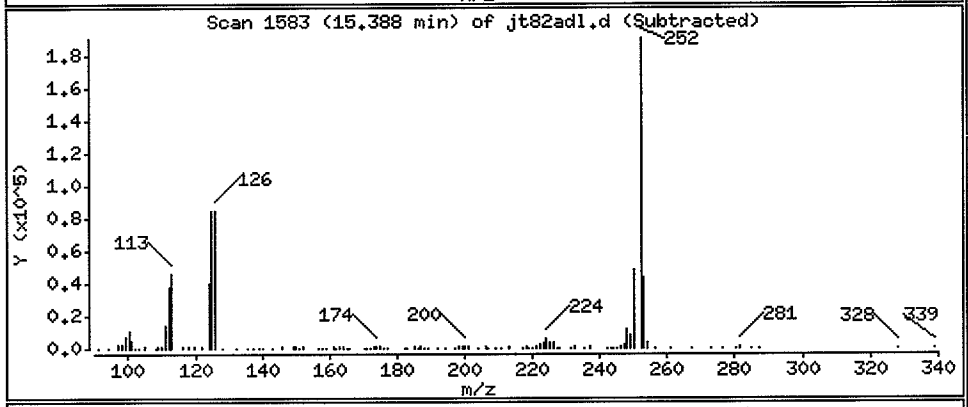
Column diameter: 0.25

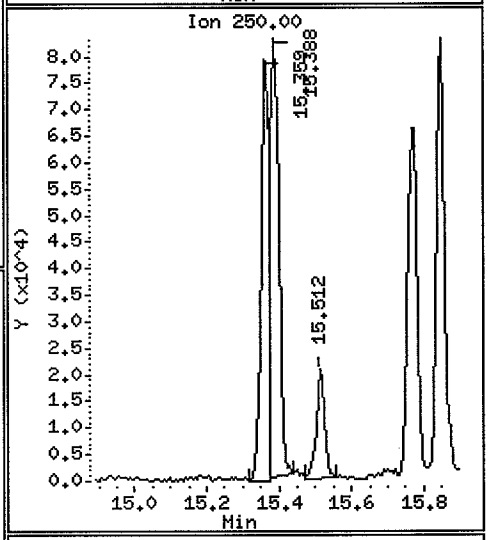
29 Benzo(k)fluoranthene

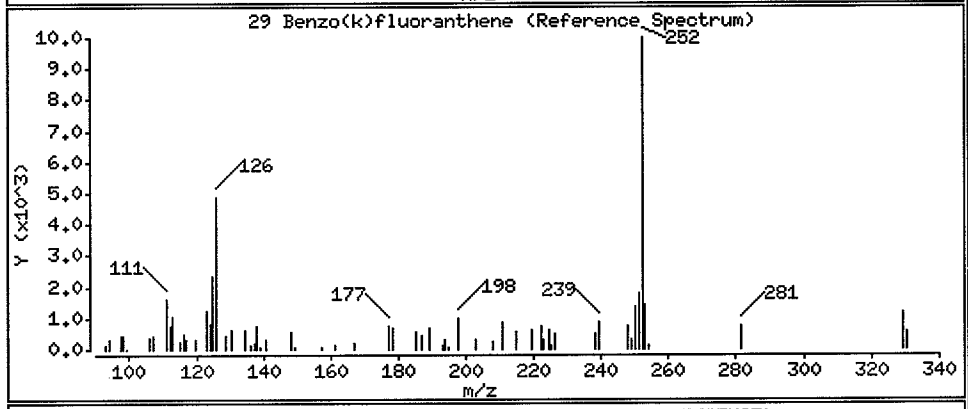
Concentration: 10140 ug/kg

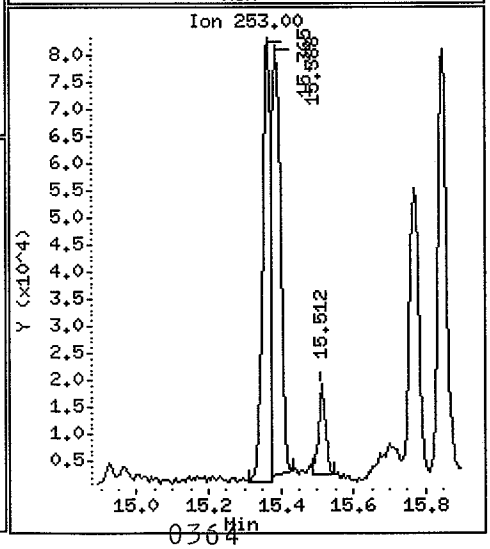


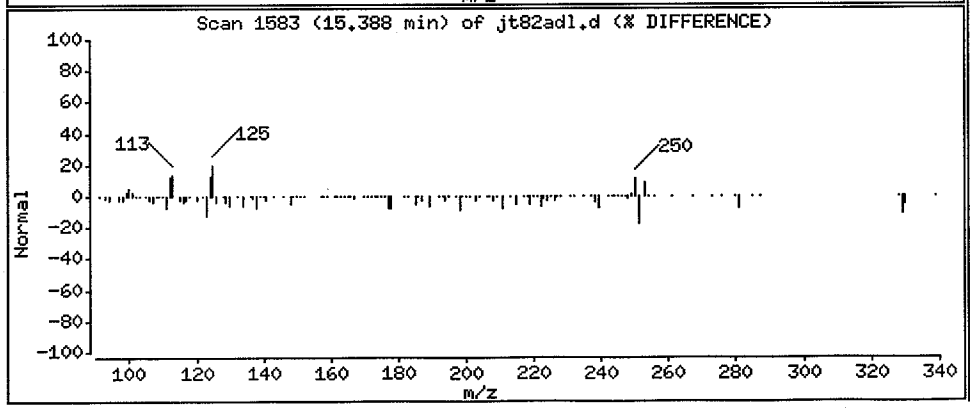












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

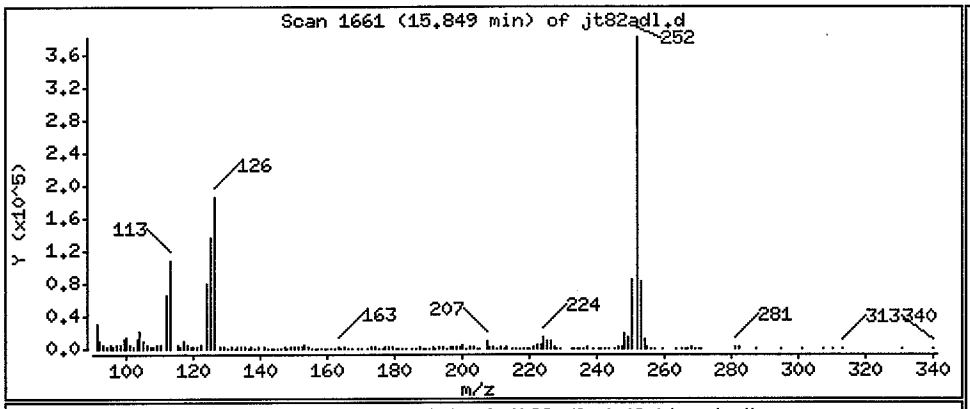
Operator: VTS

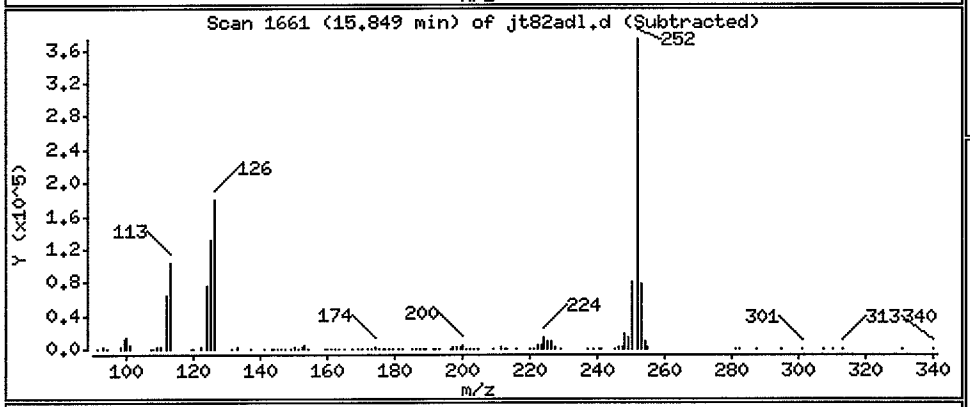
Column phase: ZB-5

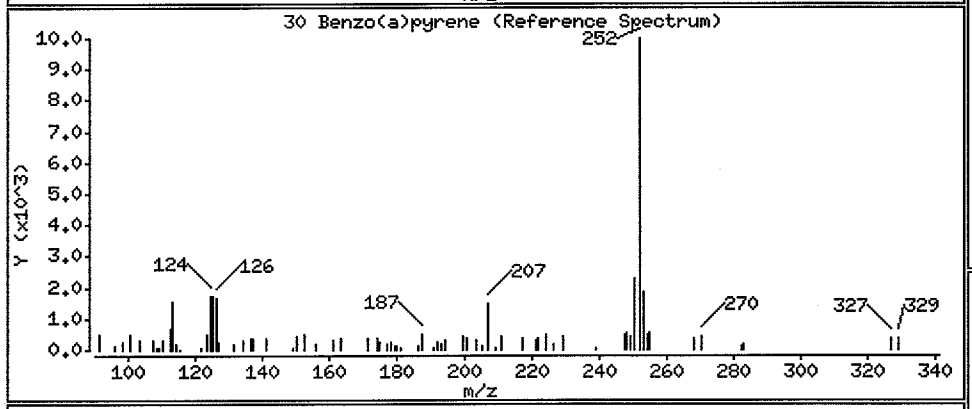
Column diameter: 0.25

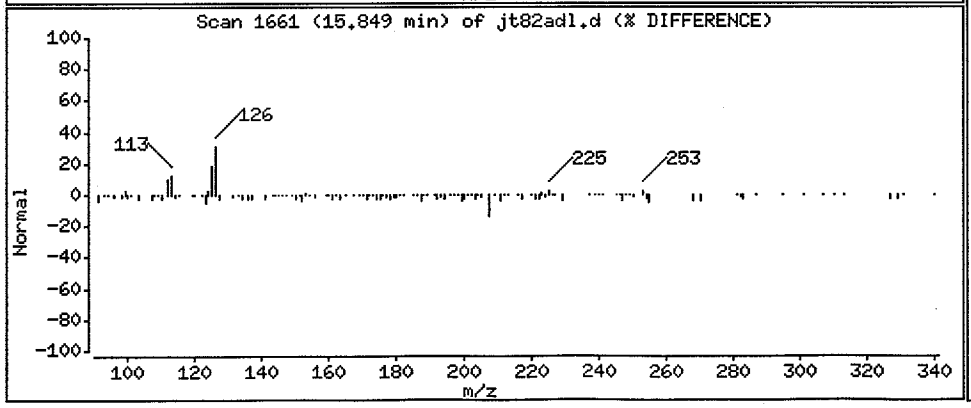
30 Benzo(a)pyrene

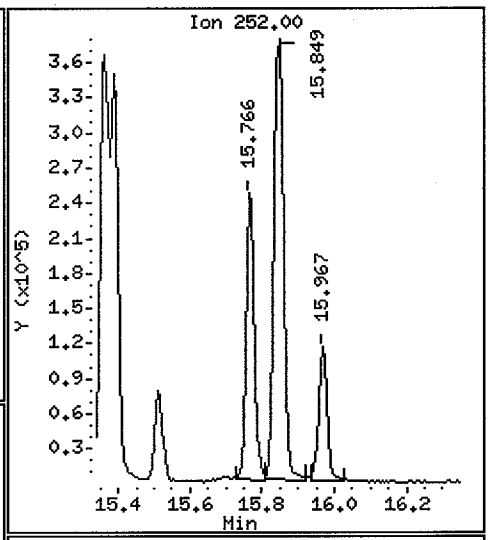
Concentration: 12090 ug/kg

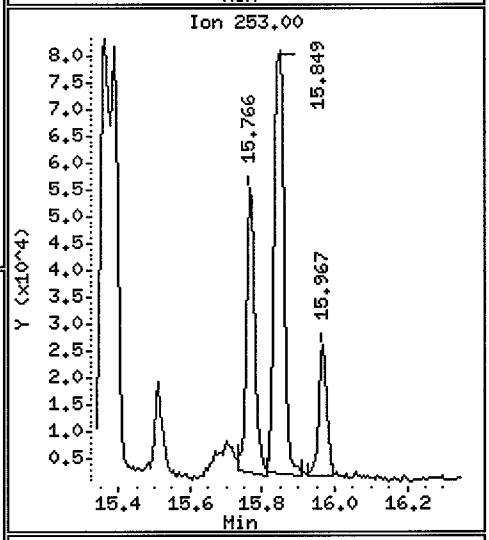


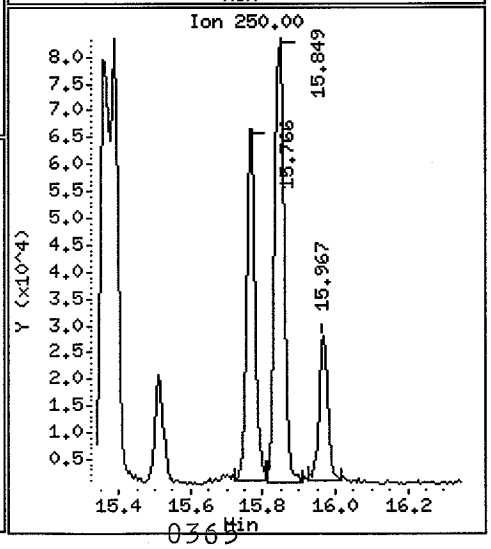












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

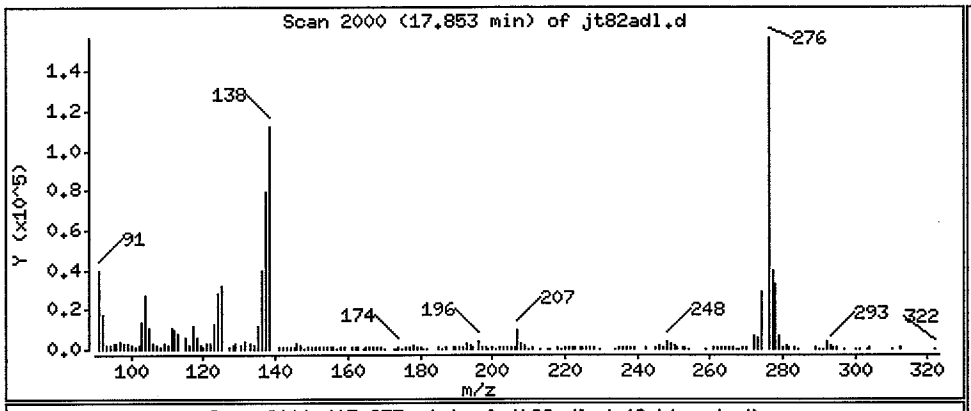
Operator: VTS

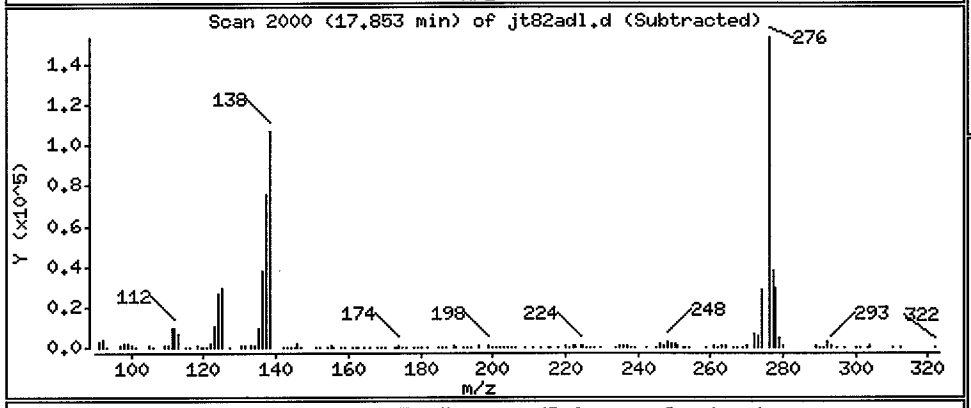
Column phase: ZB-5

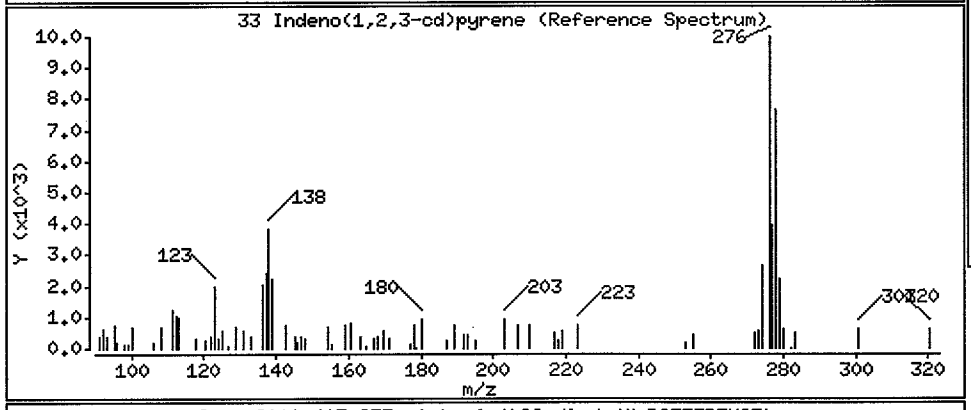
Column diameter: 0.25

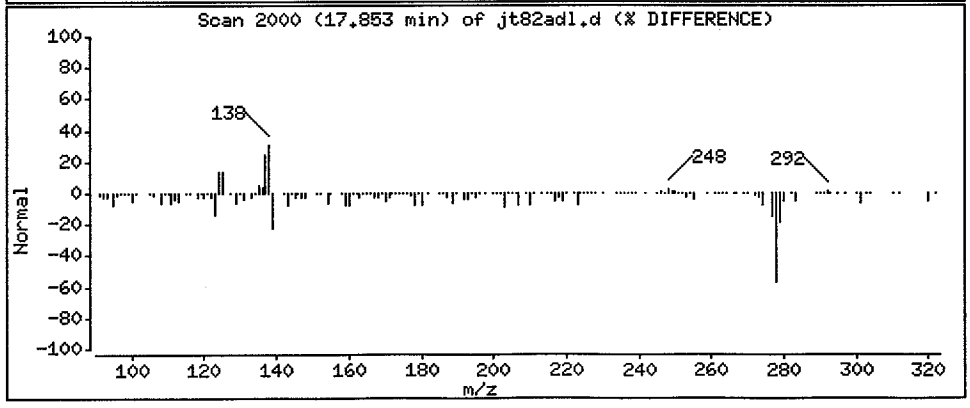
33 Indeno(1,2,3-cd)pyrene

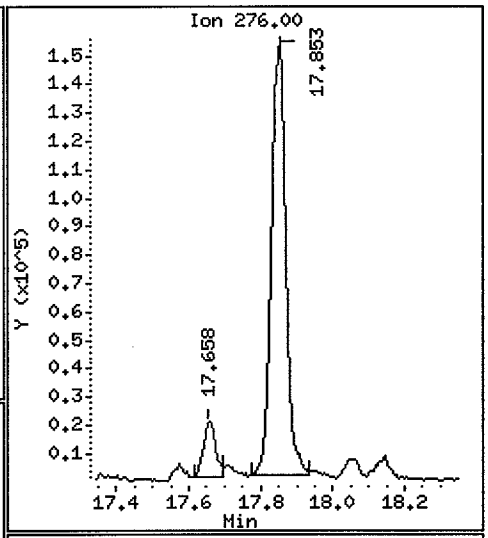
Concentration: 6860 ug/kg

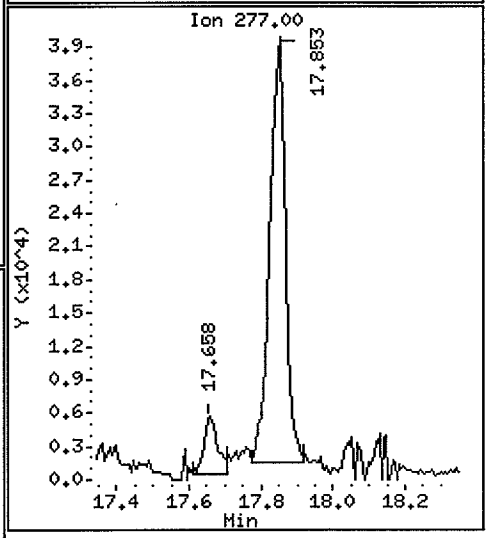












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

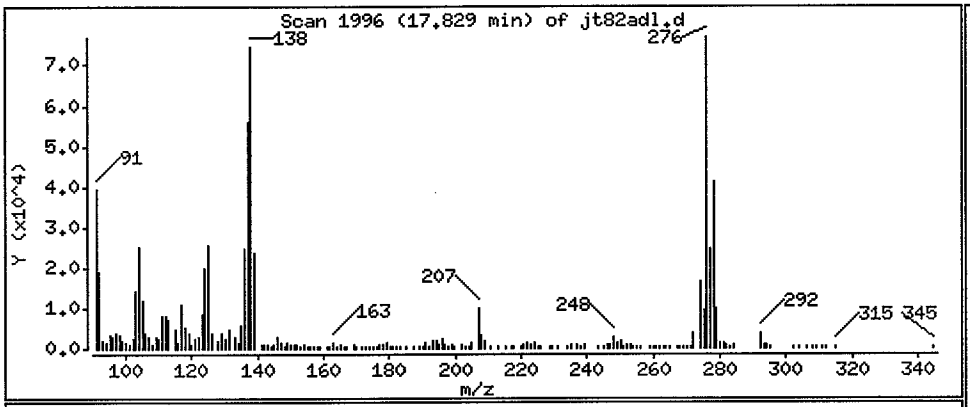
Operator: VTS

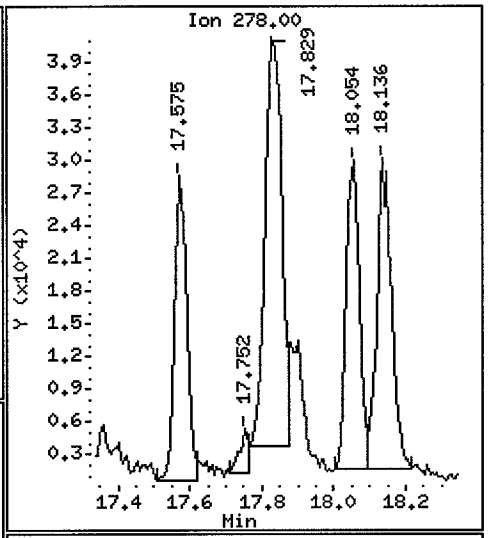
Column phase: ZB-5

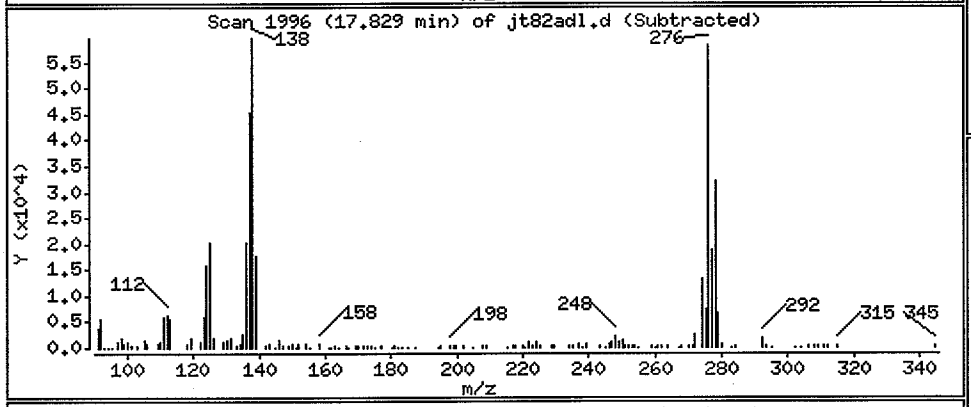
Column diameter: 0.25

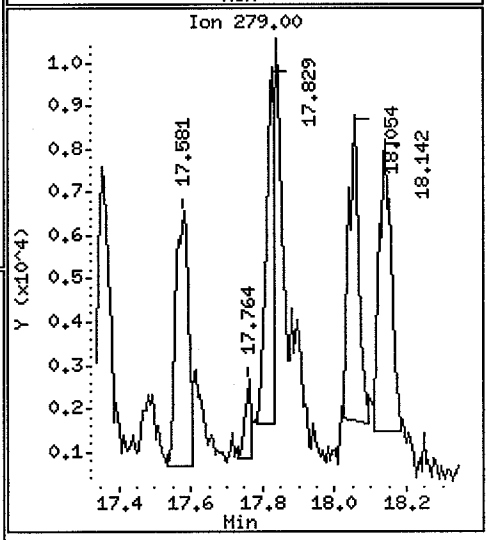
34 Dibenz(a,h)anthracene

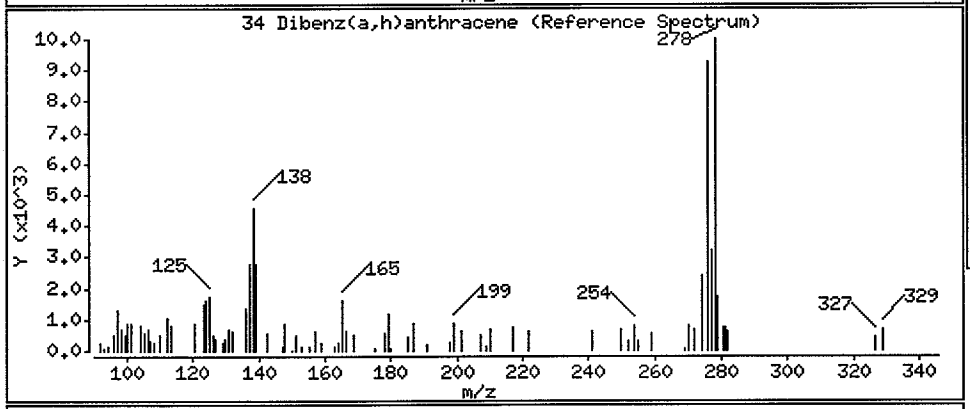
Concentration: 2408 ug/kg

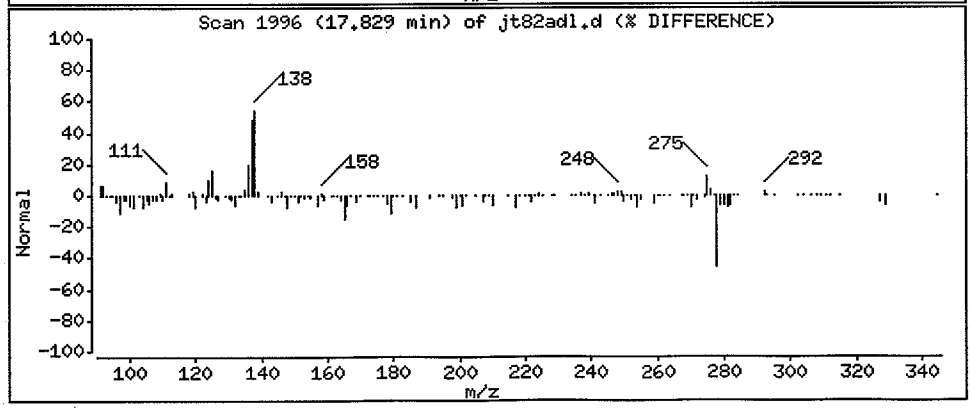












Data File: /chem3/nt1.i/20060901.b/jt82ad1.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

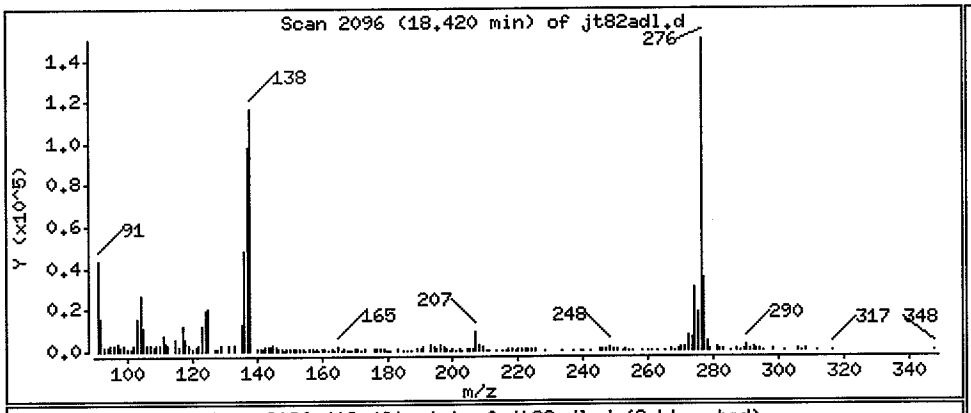
Operator: VTS

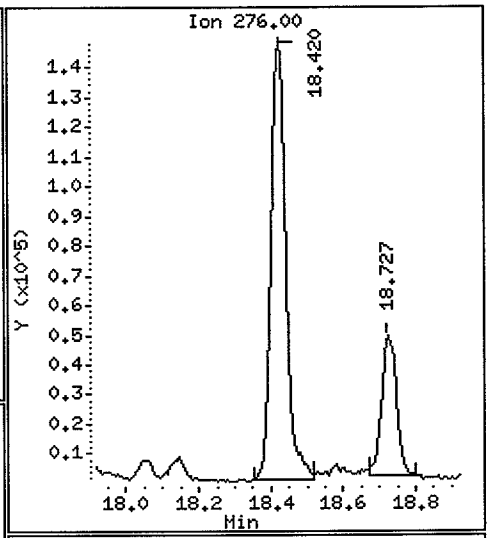
Column phase: ZB-5

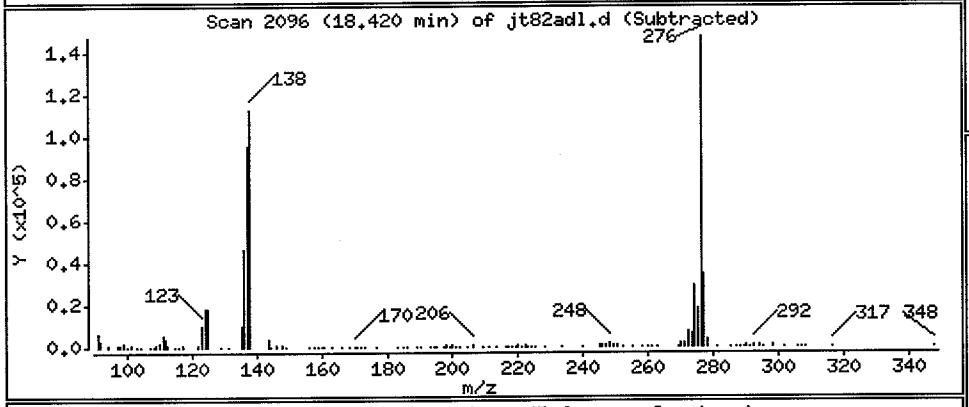
Column diameter: 0.25

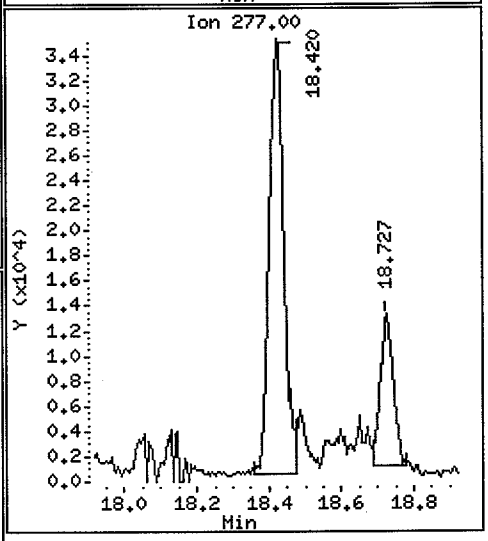
35 Benzo(g,h,i)perylene

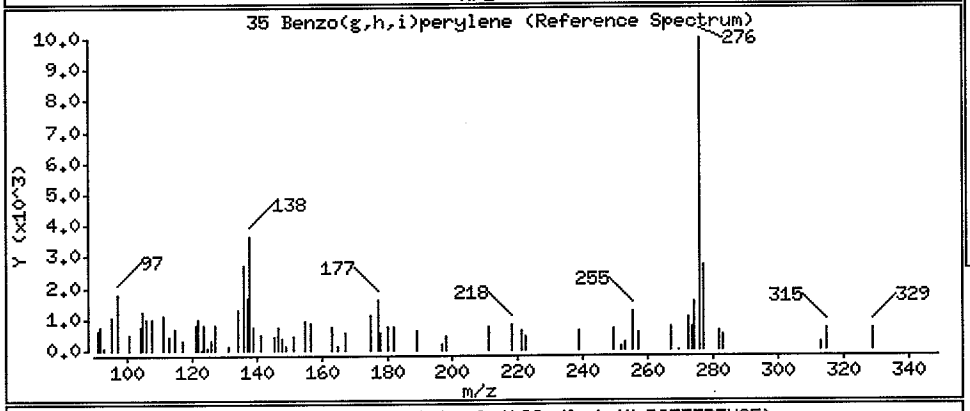
Concentration: 8080 ug/kg

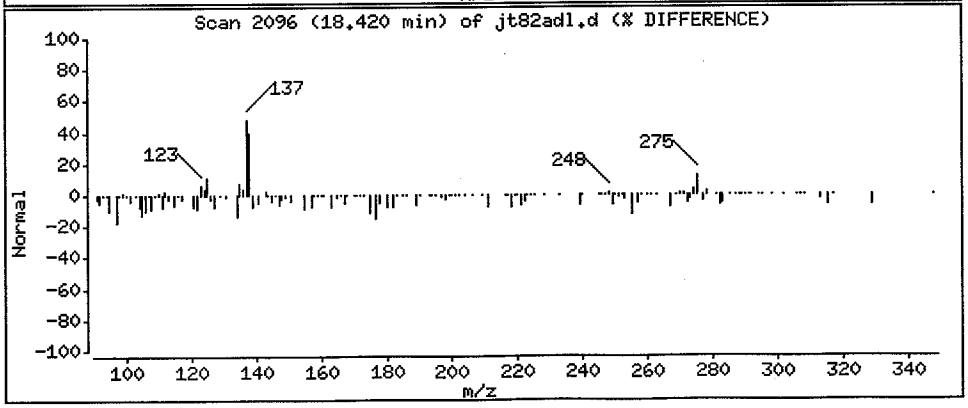












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

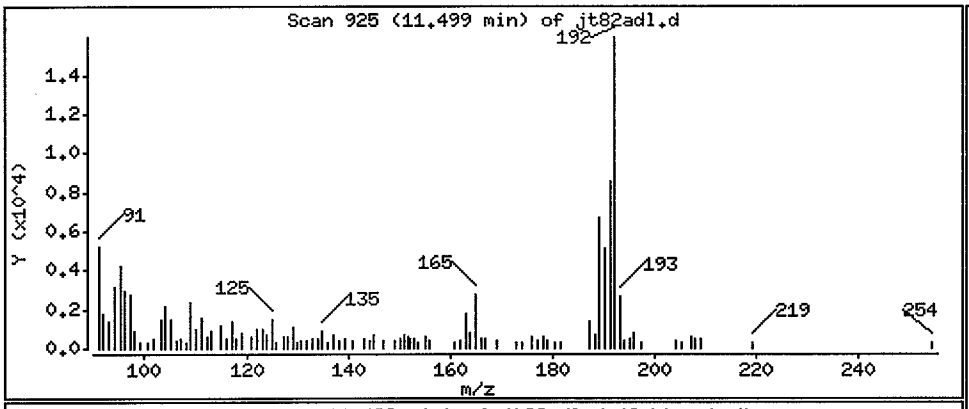
Operator: VTS

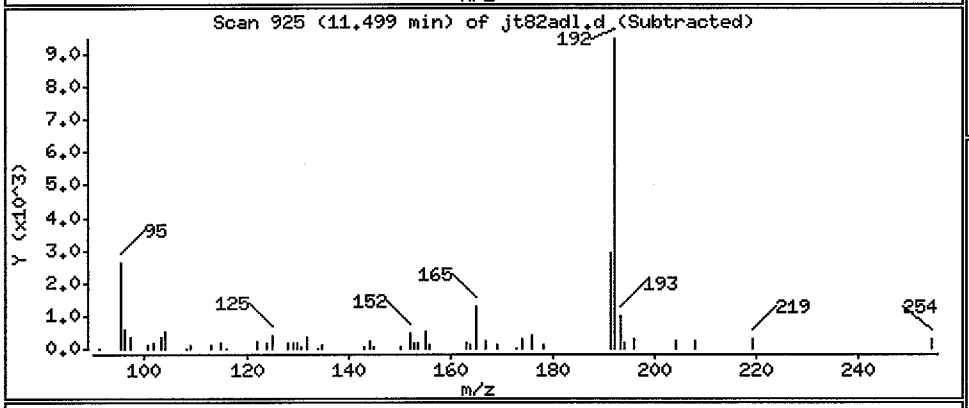
Column phase: ZB-5

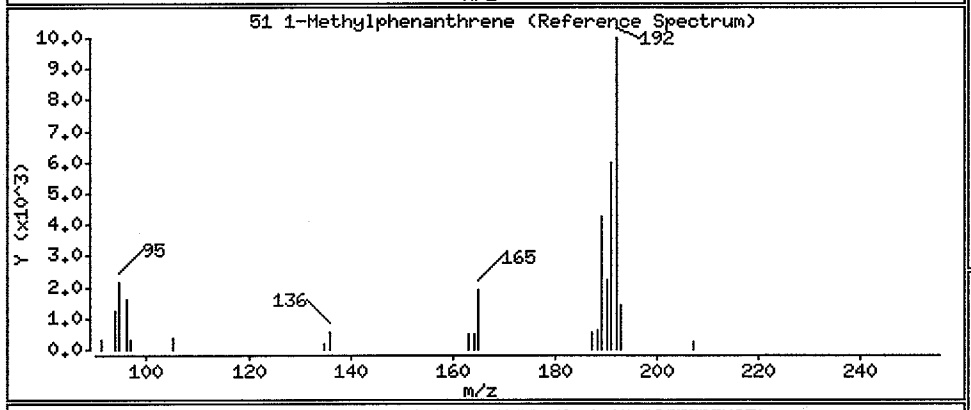
Column diameter: 0.25

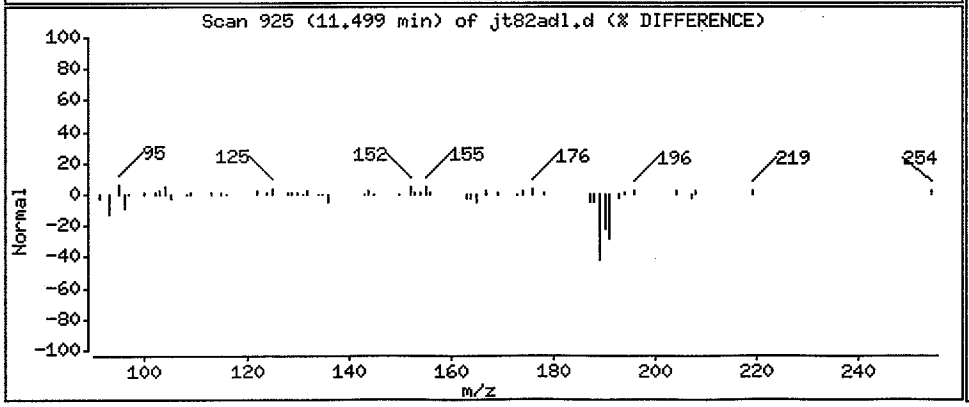
51 1-Methylphenanthrene

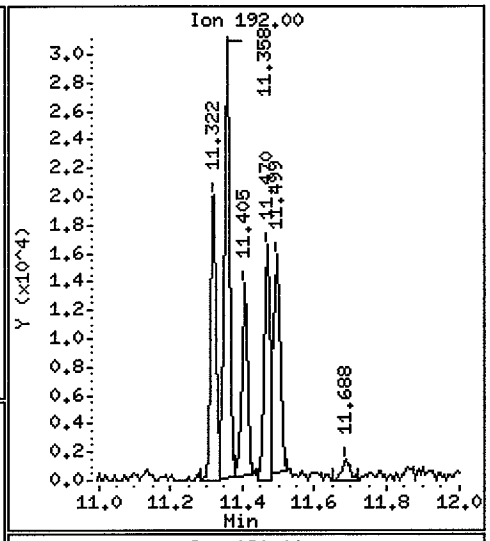
Concentration: 521.7 ug/kg

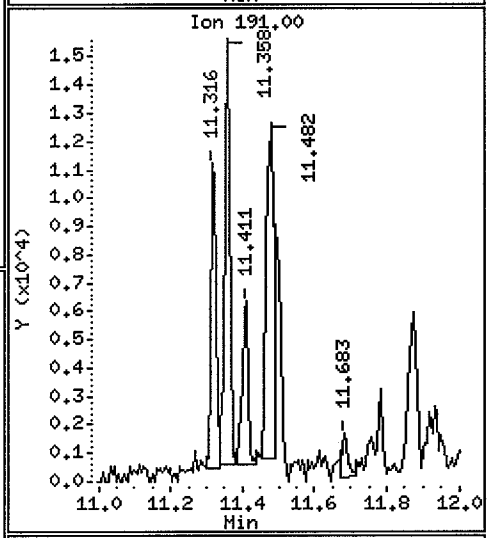


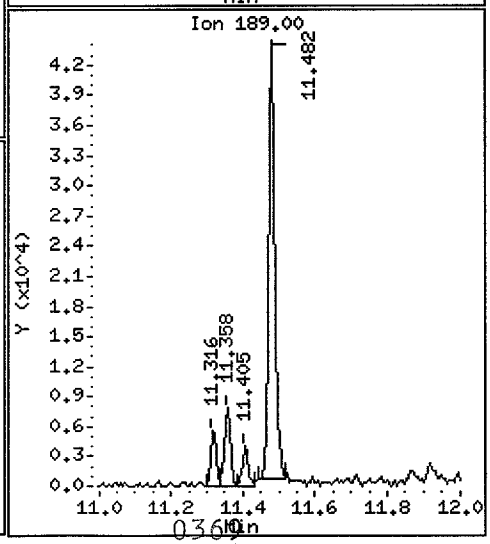












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

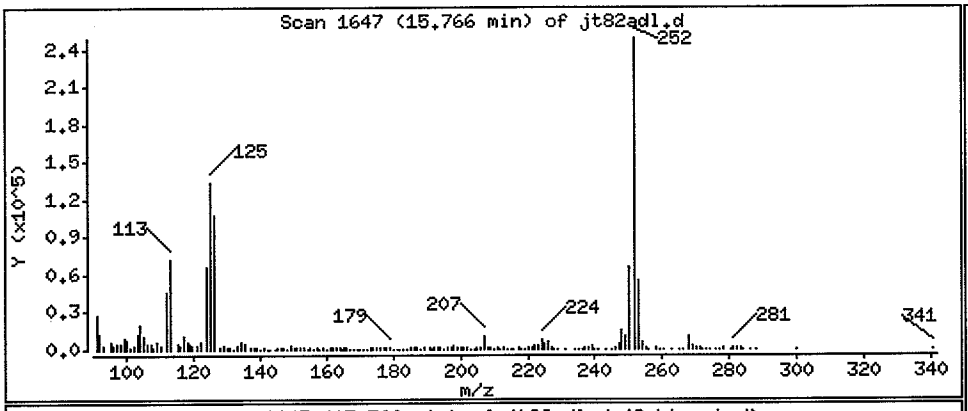
Operator: VTS

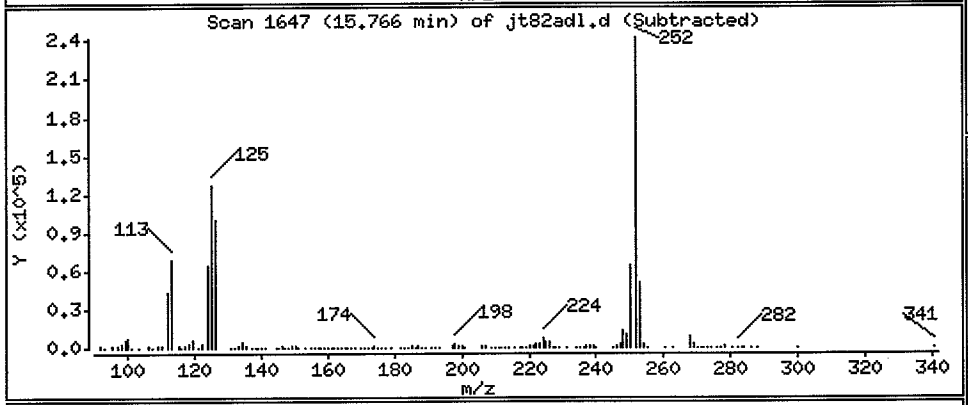
Column phase: ZB-5

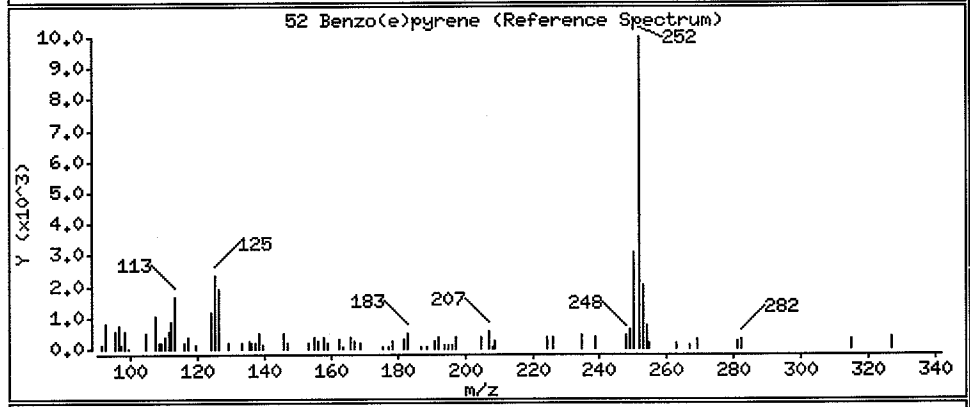
Column diameter: 0.25

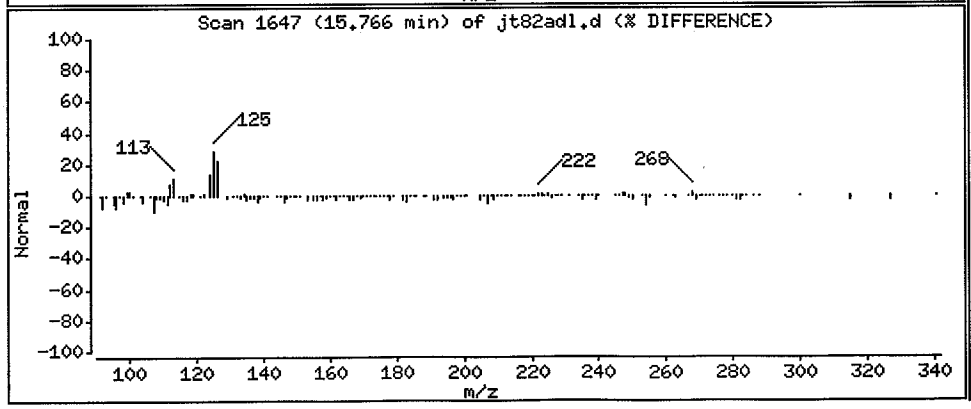
52 Benzo(e)pyrene

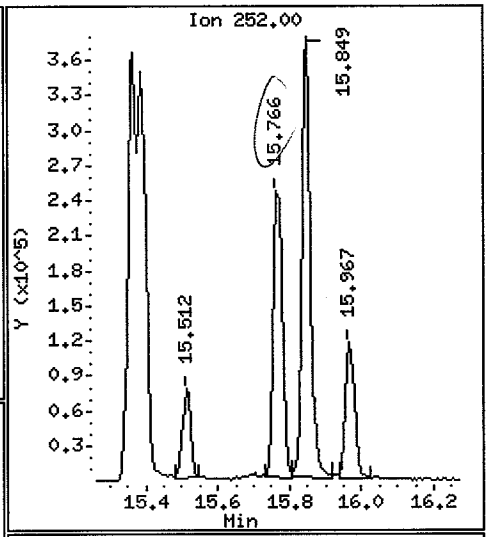
Concentration: 6879 ug/kg

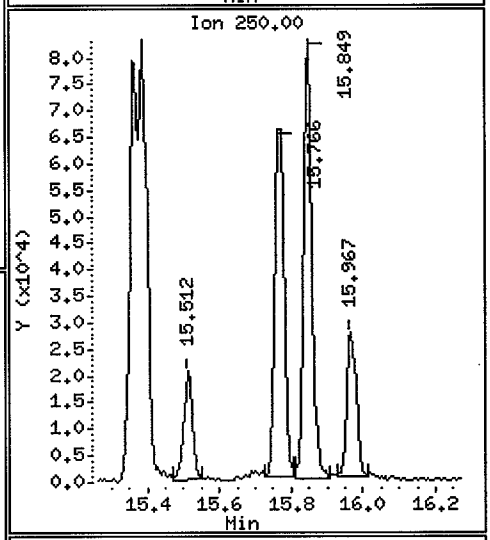


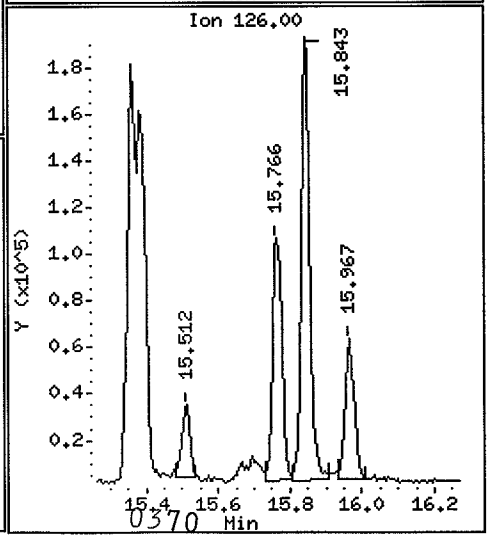












Data File: /chem3/nt1.i/20060901.b/jt82adl.d

Date : 01-SEP-2006 11:54

Client ID: T4-S3-01-J

Instrument: nt1.i

Sample Info: JT82A,50

Volume Injected (uL): 1.0

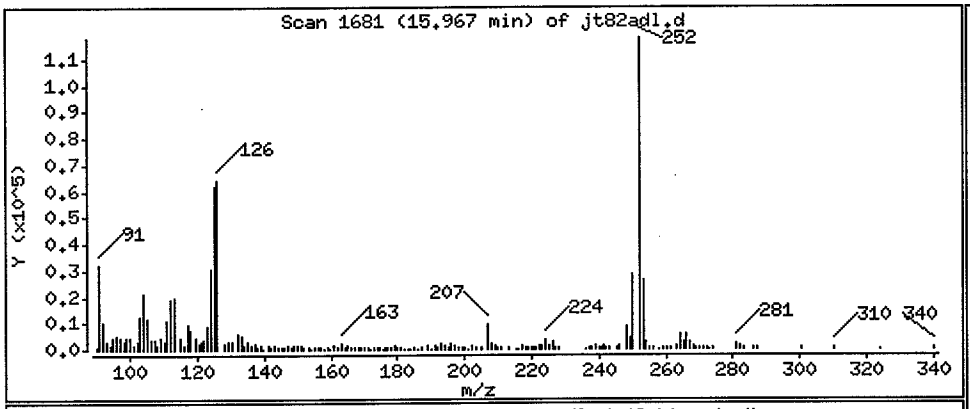
Operator: VTS

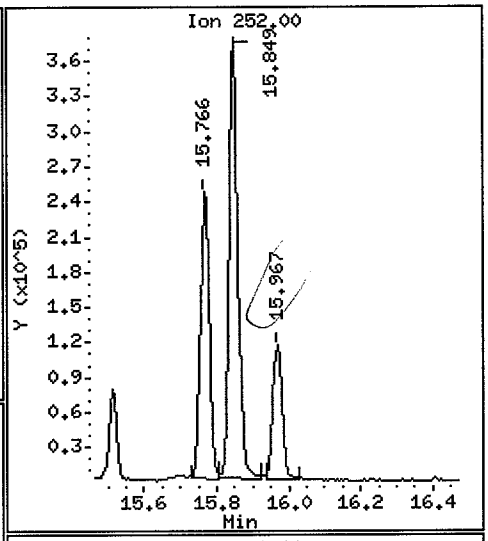
Column phase: ZB-5

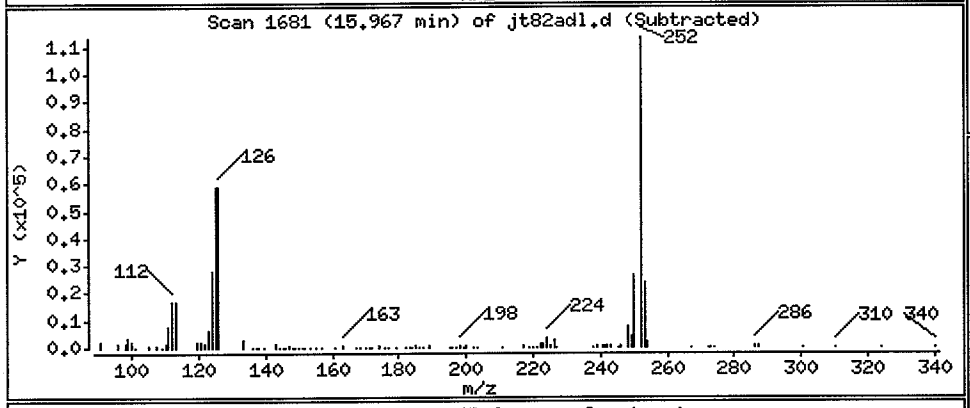
Column diameter: 0.25

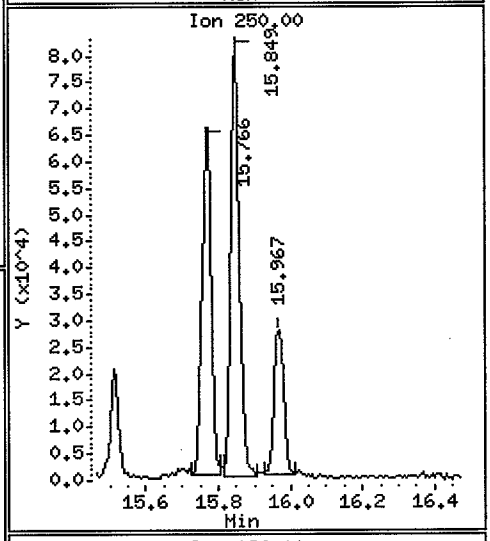
53 Perylene

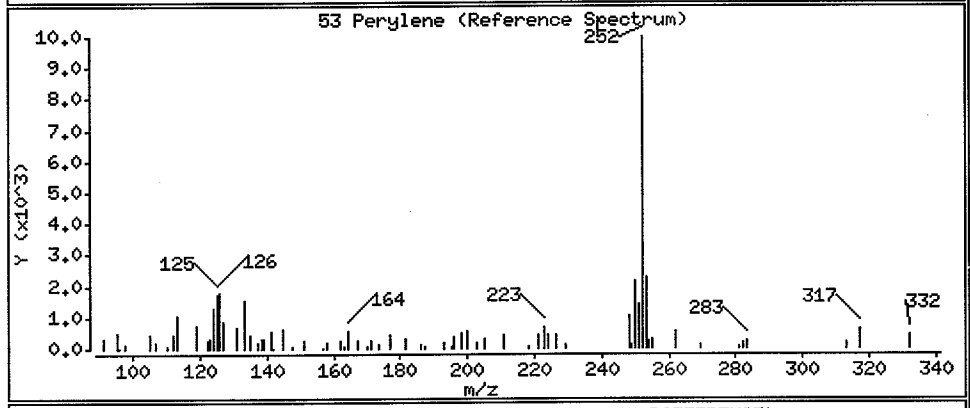
Concentration: 3610 ug/kg

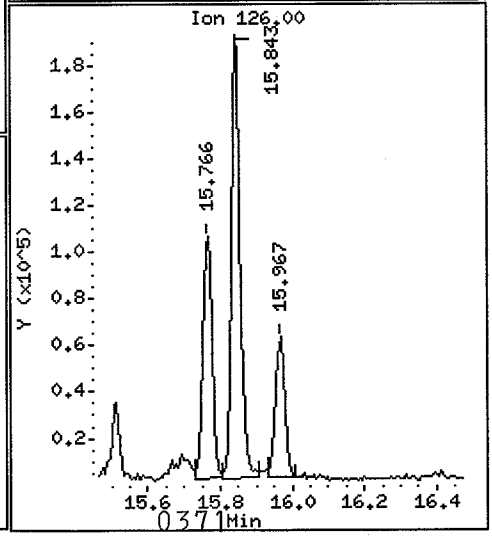


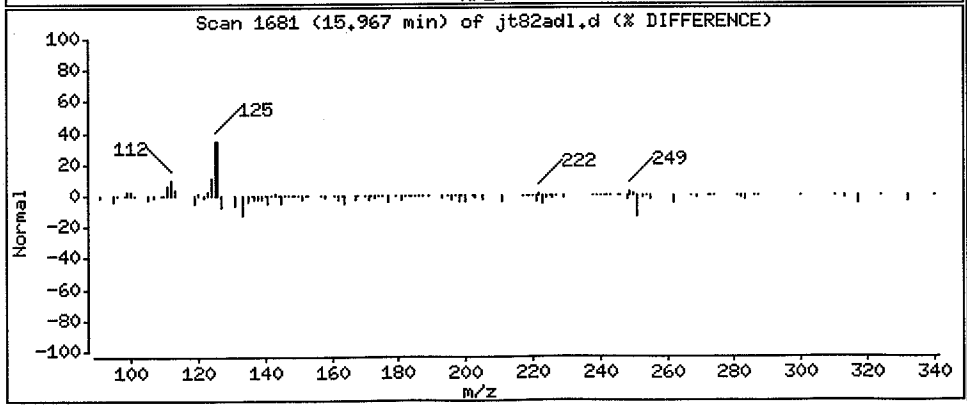












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-01-K**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82B
LIMS ID: 06-15216
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 13:02
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.3%
pH: 6.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	< 4.8 U
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	Acenaphthylene	4.8	< 4.8 U
83-32-9	**Acenaphthene**	**4.8**	**13**
86-73-7	**Fluorene**	**4.8**	**6.8**
85-01-8	**Phenanthrene**	**4.8**	**49**
120-12-7	**Anthracene**	**4.8**	**9.2**
206-44-0	**Fluoranthene**	**4.8**	**76**
129-00-0	**Pyrene**	**4.8**	**77**
56-55-3	**Benzo(a)anthracene**	**4.8**	**51**
218-01-9	**Chrysene**	**4.8**	**63**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**62**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**53**
50-32-8	**Benzo(a)pyrene**	**4.8**	**61**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**36**
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**13**
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**43**
198-55-0	**Perylene**	**4.9**	**370**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.8	< 4.8 U
832-69-9	**1-Methylphenanthrene**	**4.8**	**4.8**
192-97-2	**Benzo(e)pyrene**	**4.8**	**38**
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracen	76.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060831.b/jt82b.d
Lab Smp Id: JT82B Client Smp ID: T4-S3-01-K
Inj Date : 31-AUG-2006 13:02
Operator : VTS Inst ID: nt1.i
Smp Info : JT82B
Misc Info : 06-15216
Comment : 1ul Injection
Method : /chem3/nt1.i/20060831.b/simpna.m
Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	15.00000	Weight of sample extracted (g)
M	31.30000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.825	6.823	(1.000)	349209	2.00000	
	2 Naphthalene	128	6.849	6.847	(1.003)	10227	0.05871	2.849 J
$	3 2-Methylnaphthalene-d10	152	7.582	7.580	(1.111)	168342	1.87161	90.81
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.888	8.886	(1.000)	174641	2.00000	
	9 Acenaphthene	153	8.924	8.921	(1.004)	23256	0.27120	13.16
	10 Dibenzofuran	168	9.113	9.111	(1.025)	7790	0.06167	2.992 J
	11 Fluorene	166	9.538	9.536	(1.073)	13828	0.14063	6.823
*	15 Phenanthrene-d10	188	10.697	10.694	(1.000)	230383	2.00000	
	16 Phenanthrene	178	10.720	10.724	(1.002)	119653	1.01185	49.10
	17 Anthracene	178	10.779	10.777	(1.008)	22666	0.19180	9.306
	19 Fluoranthene	202	12.215	12.213	(1.142)	188601	1.56367	75.87

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
20 Pyrene	202	12.505	12.503	(0.893)	173790	1.59452	77.37
22 Benzo(a)anthracene	228	13.983	13.980	(0.999)	107079	1.04761	50.83
* 23 Chrysene-d12	240	14.000	14.004	(1.000)	169736	2.00000	
24 Chrysene	228	14.036	14.034	(1.003)	122491	1.29928	63.04
28 Benzo(b)fluoranthene	252	15.354	15.352	(0.964)	128201	1.28344	62.27
29 Benzo(k)fluoranthene	252	15.383	15.387	(0.966)	117036	1.09903	53.32
30 Benzo(a)pyrene	252	15.844	15.836	(0.995)	121299	1.24625	60.47
* 31 Perylene-d12	264	15.921	15.925	(1.000)	176989	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.842	17.834	(1.121)	83016	0.74167	35.99
$ 32 Dibenz(a,h)anthrancene-d14	292	17.771	17.763	(1.116)	155547	2.29646	111.4
34 Dibenz(a,h)anthracene	278	17.818	17.828	(1.119)	23512	0.25713	12.48
35 Benzo(g,h,i)perylene	276	18.409	18.401	(1.156)	81409	0.87496	42.45
48 Biphenyl	154	Compound Not Detected.					
49 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
51 1-Methylphenanthrene	192	11.494	11.492	(0.821)	6894	0.09922	4.814
52 Benzo(e)pyrene	252	15.762	15.759	(0.990)	83929	0.77901	37.80
53 Perylene	252	15.968	15.960	(1.003)	778640	7.69723	373.5

VTS
9.1.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82b.d
Lab Smp Id: JT82B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15216

Calibration Date: 31-AUG-2006
Calibration Time: 11:36
Client Smp ID: T4-S3-01-K
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	330618	165309	661236	349209	5.62
8 Acenaphthene-d10	168464	84232	336928	174641	3.67
15 Phenanthrene-d10	226331	113166	452662	230383	1.79
23 Chrysene-d12	170894	85447	341788	169736	-0.68
31 Perylene-d12	178548	89274	357096	176989	-0.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.03
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.02
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.02
23 Chrysene-d12	14.00	13.50	14.50	14.00	-0.03
31 Perylene-d12	15.92	15.42	16.42	15.92	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

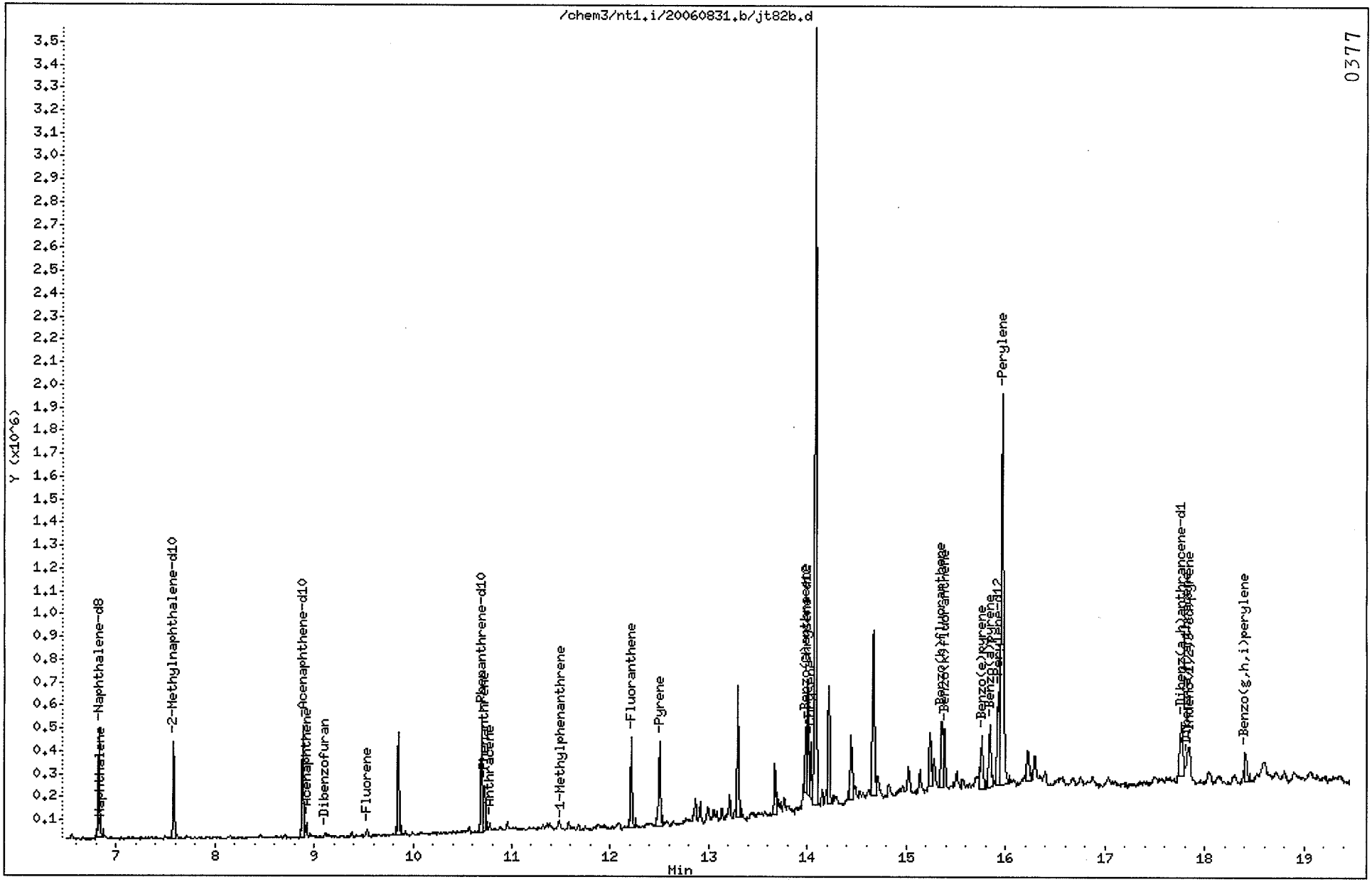
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82B
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15216

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-01-K
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	145.6	90.81	62.39	32-97
$ 32 Dibenz(a,h)anthran	145.6	111.4	76.55	21-105

Data File: /chem3/nt1.i/20060831.b/jt82b.d
Date : 31-AUG-2006 13:02
Client ID: T4-S3-01-K
Sample Info: JT82B
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

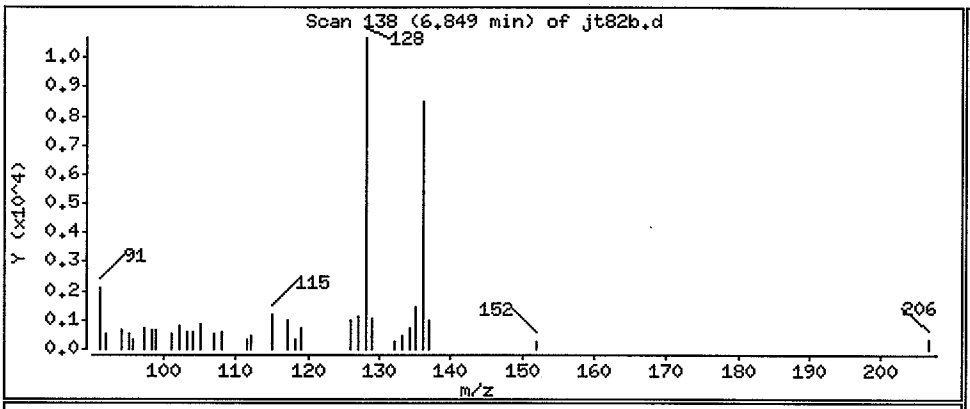
Operator: VTS

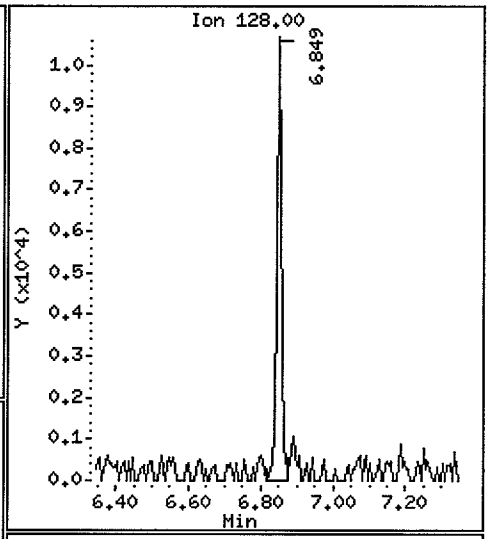
Column phase: ZB-5

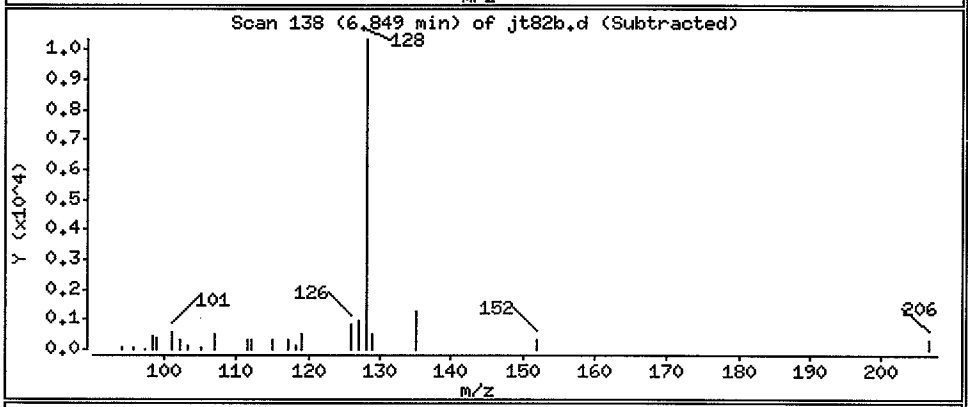
Column diameter: 0.25

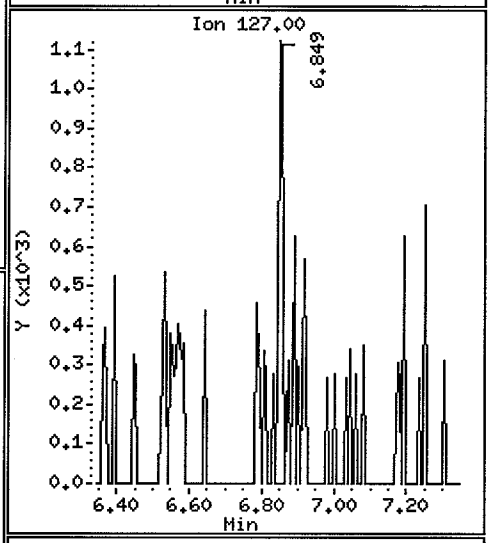
2 Naphthalene

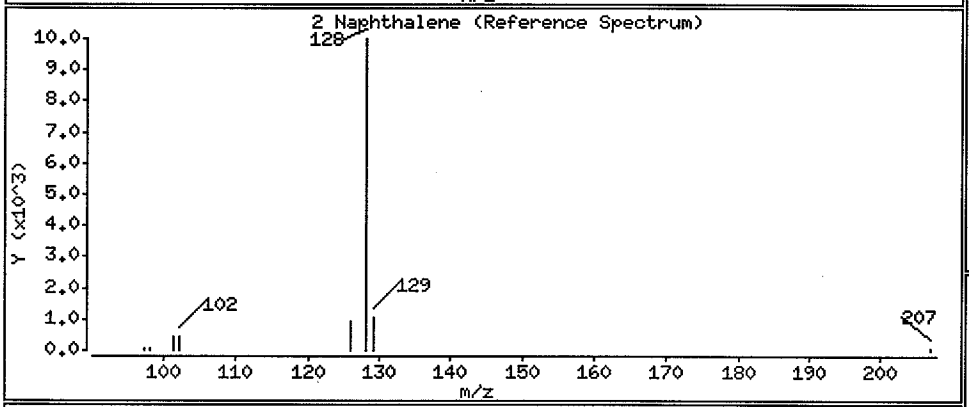
Concentration: 2.849 ug/kg

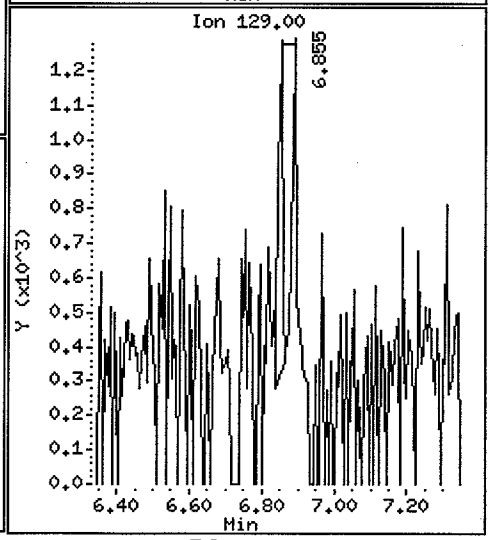


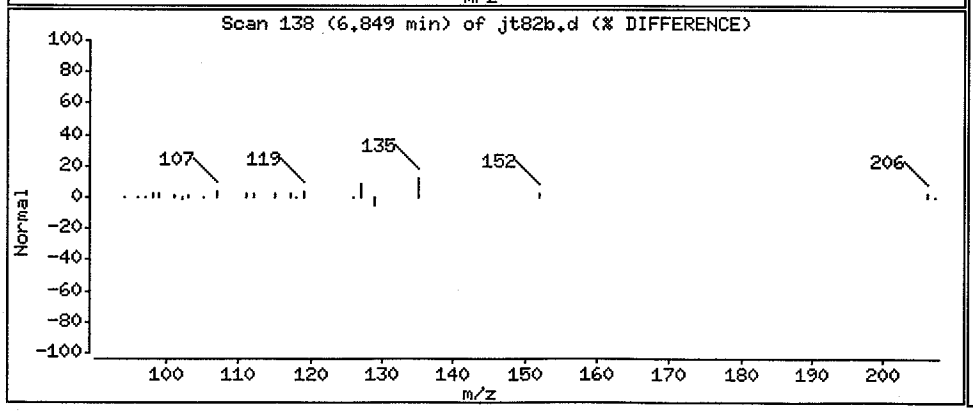












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

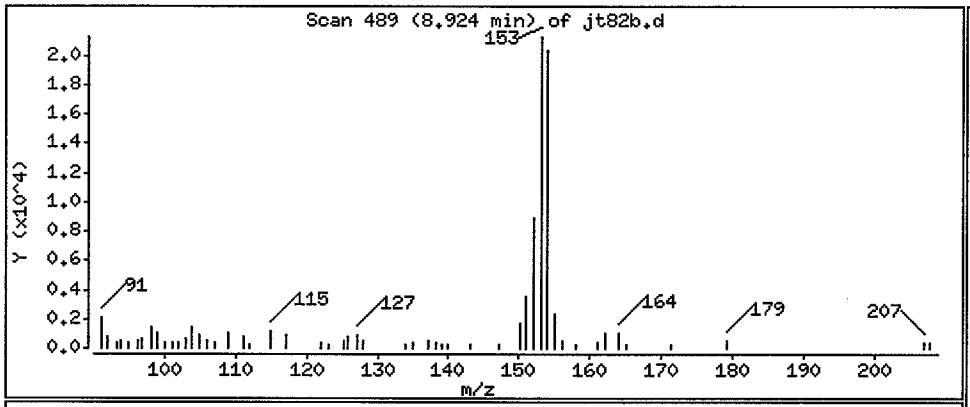
Operator: VTS

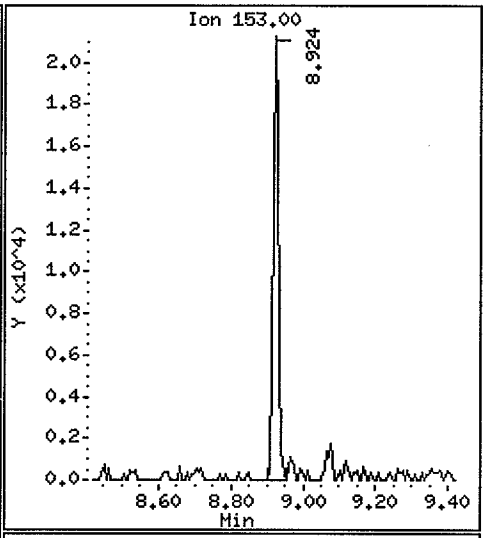
Column phase: ZB-5

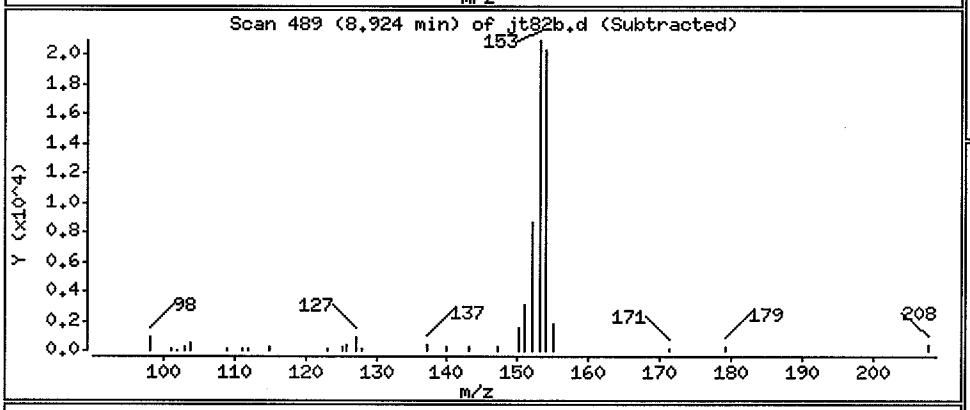
Column diameter: 0.25

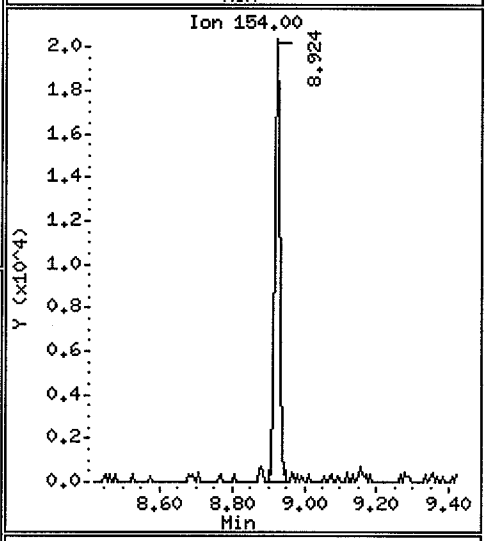
9 Acenaphthene

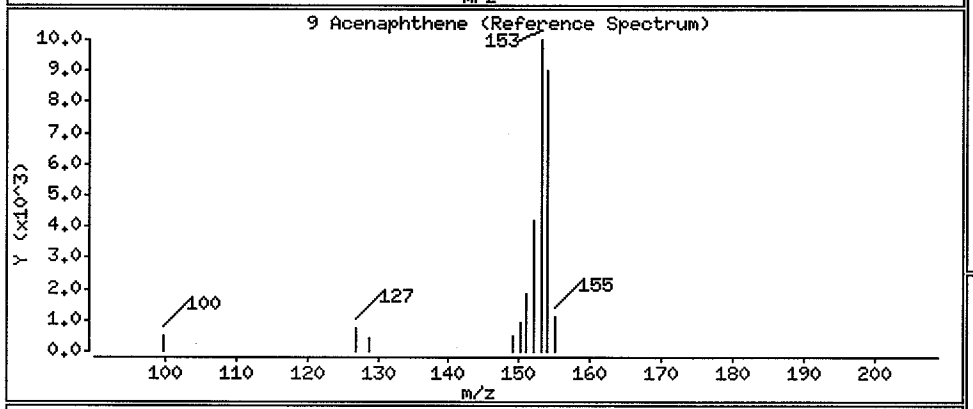
Concentration: 13.16 ug/kg

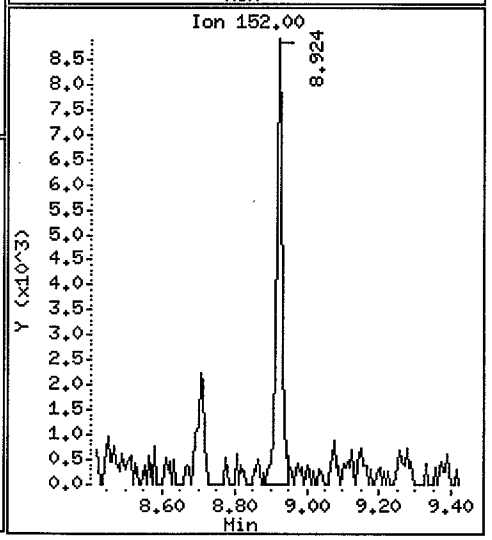


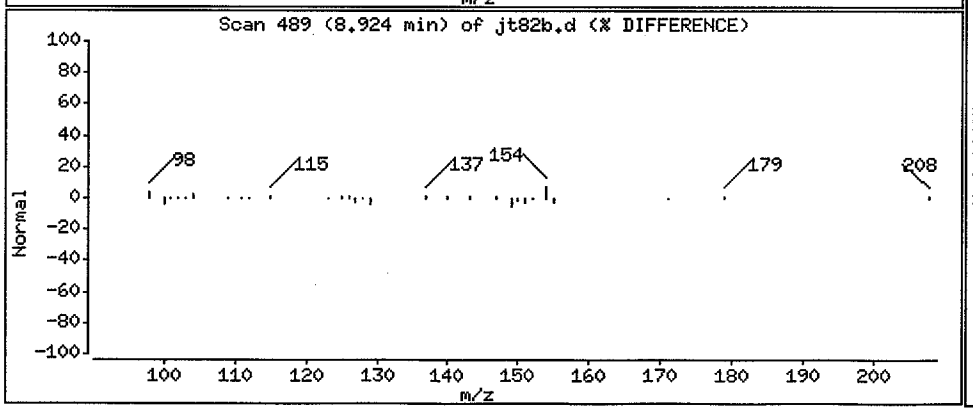












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

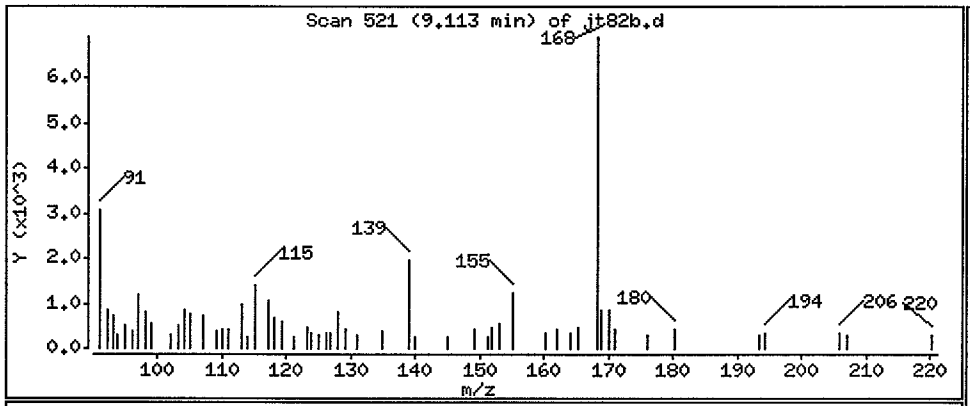
Operator: VTS

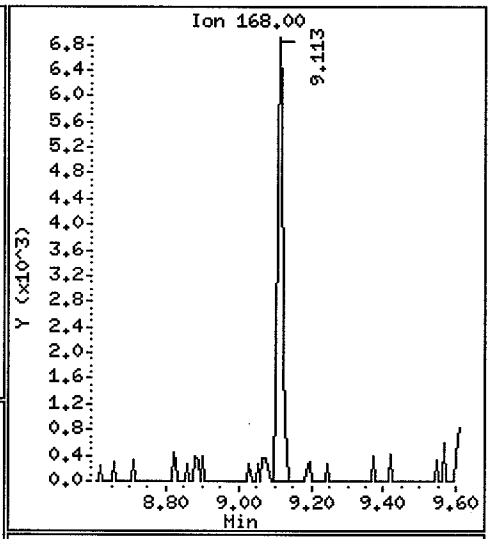
Column phase: ZB-5

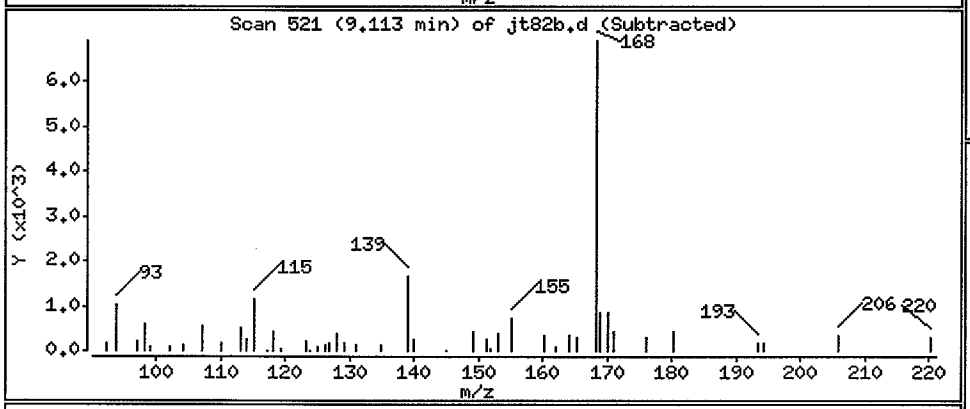
Column diameter: 0.25

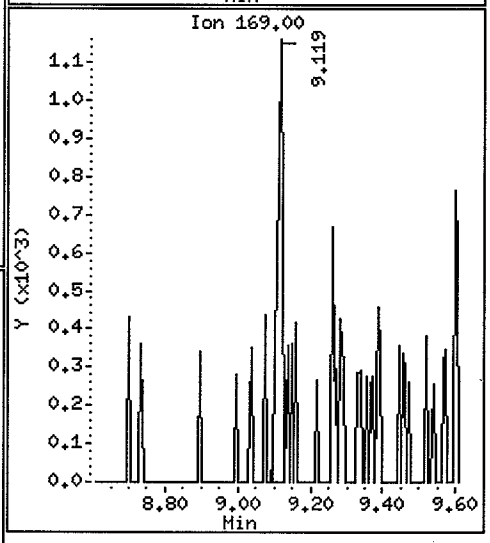
10 Dibenzofuran

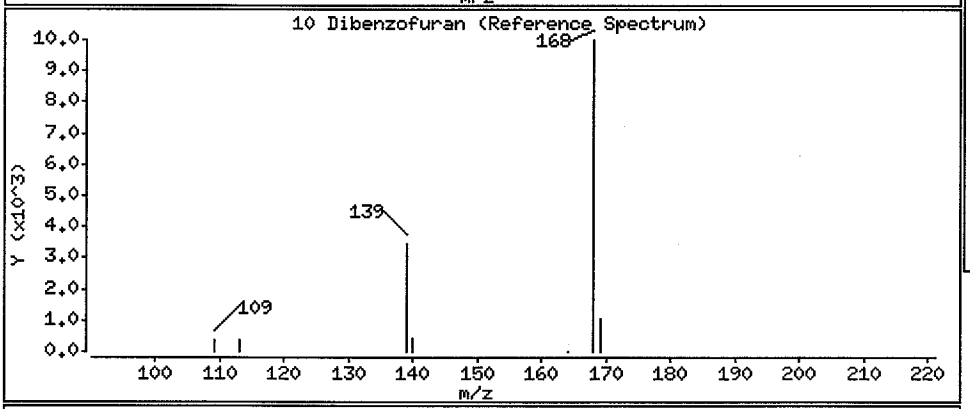
Concentration: 2.992 ug/kg

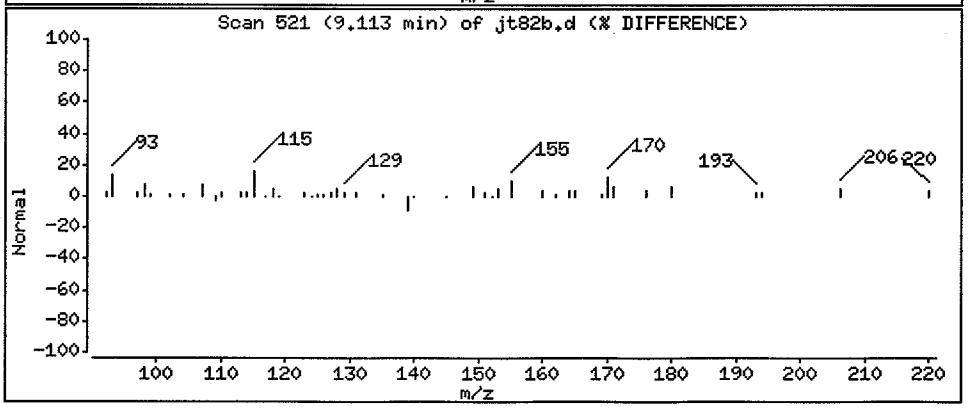












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

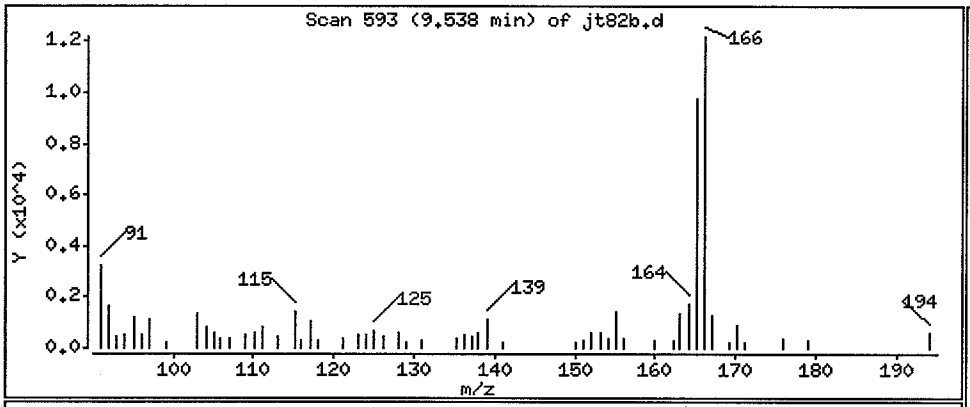
Operator: VTS

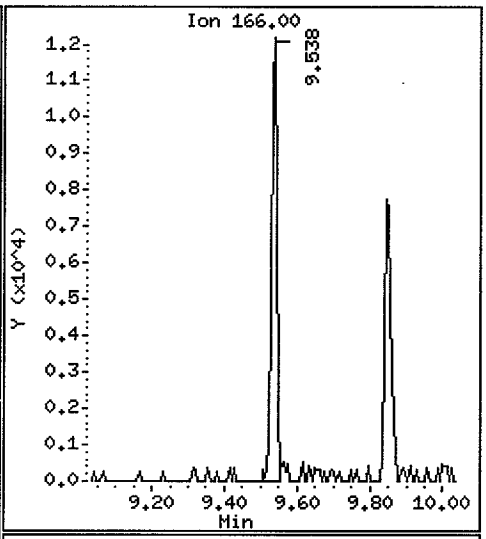
Column phase: ZB-5

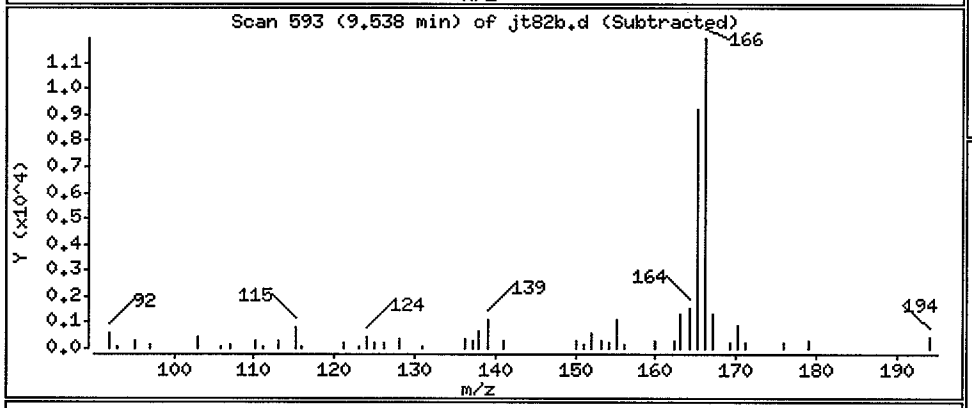
Column diameter: 0.25

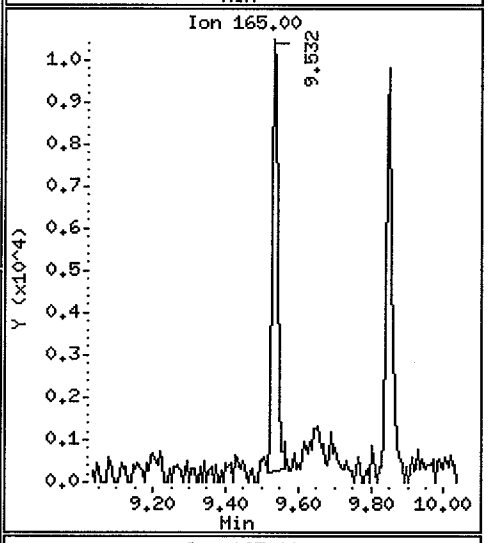
11 Fluorene

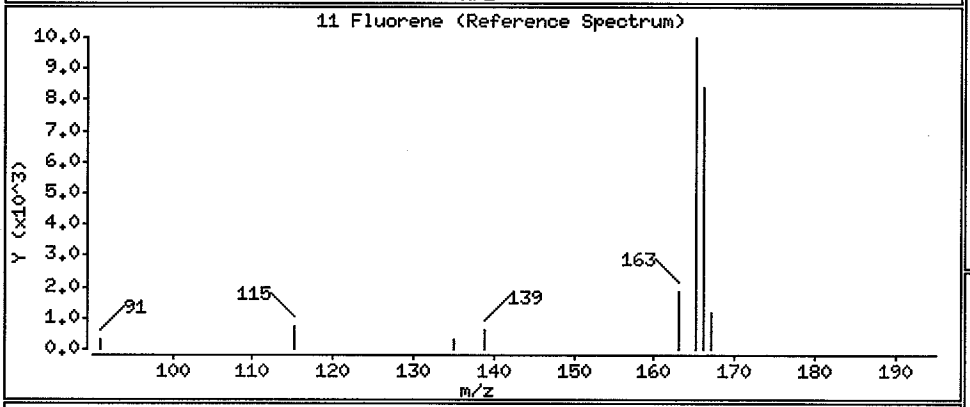
Concentration: 6.823 ug/kg

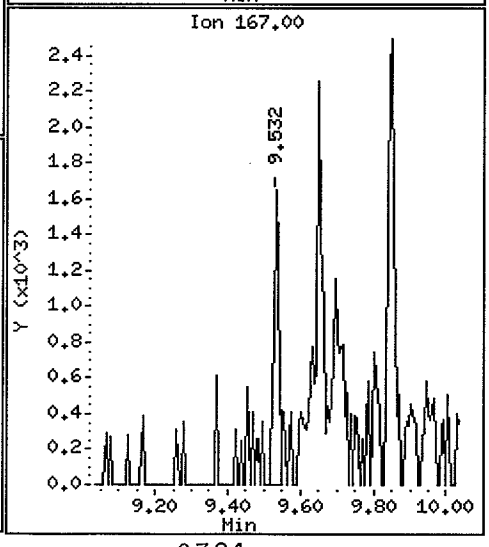


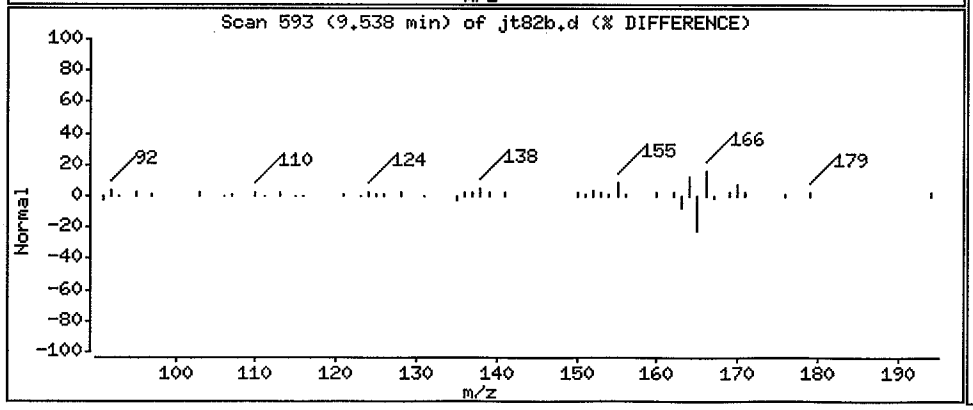












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

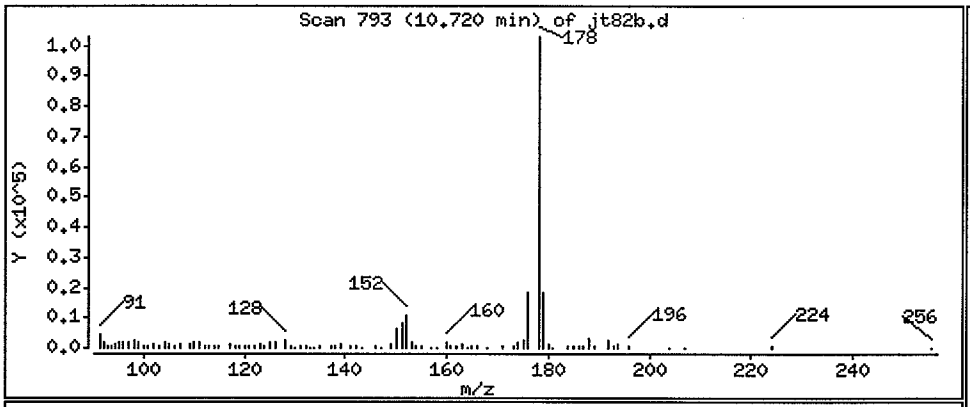
Operator: VTS

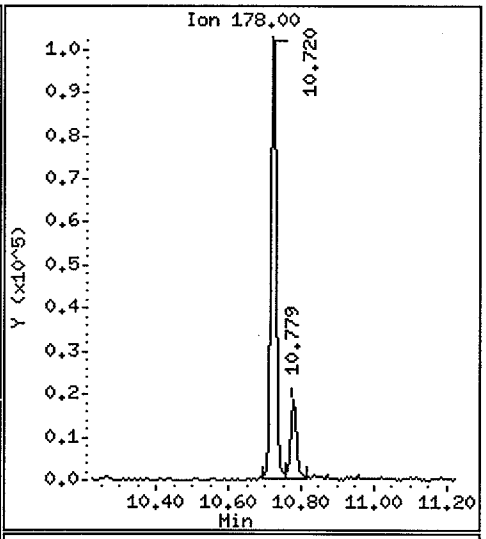
Column phase: ZB-5

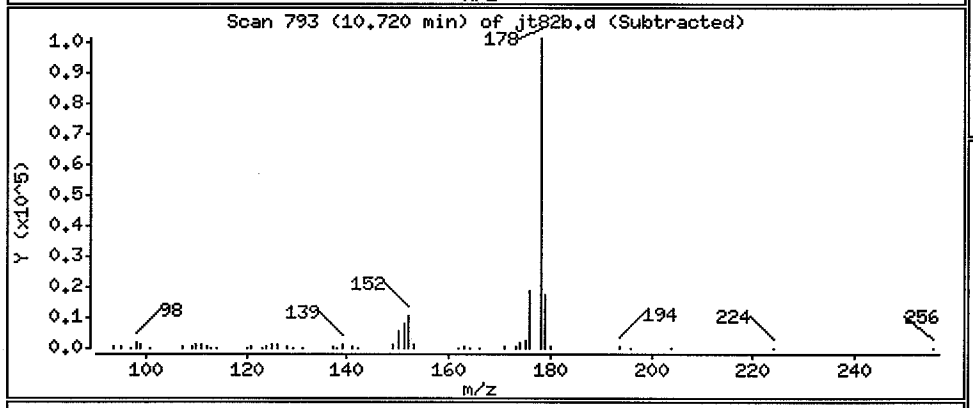
Column diameter: 0.25

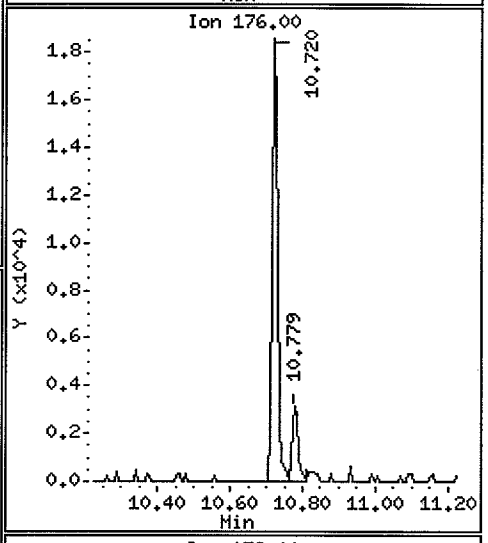
16 Phenanthrene

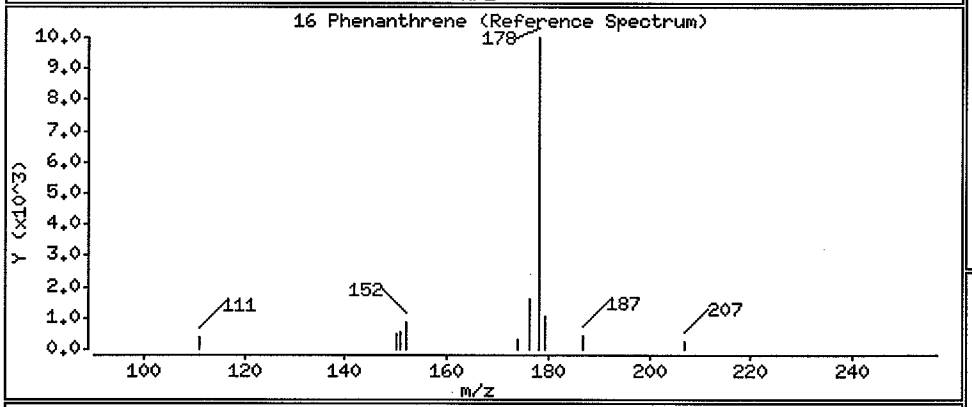
Concentration: 49.10 ug/kg

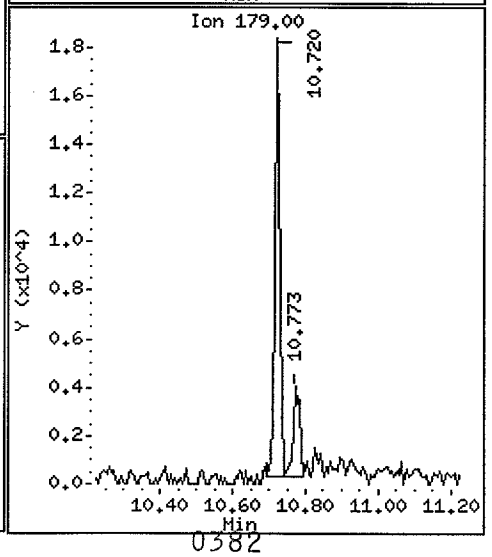


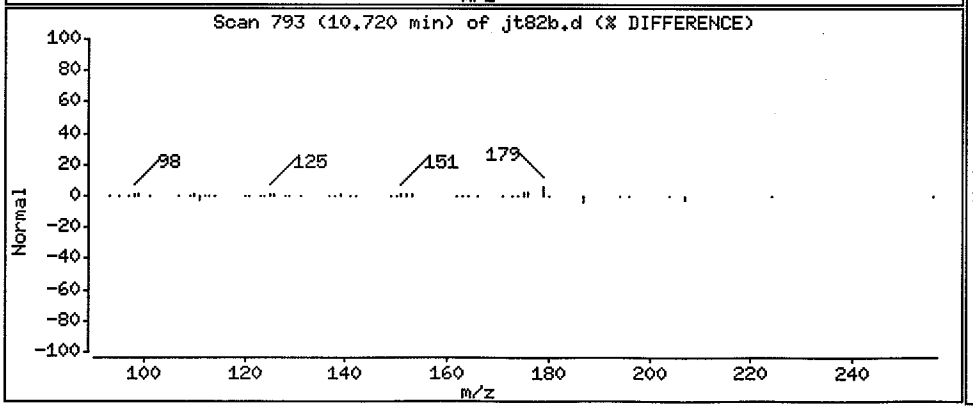












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

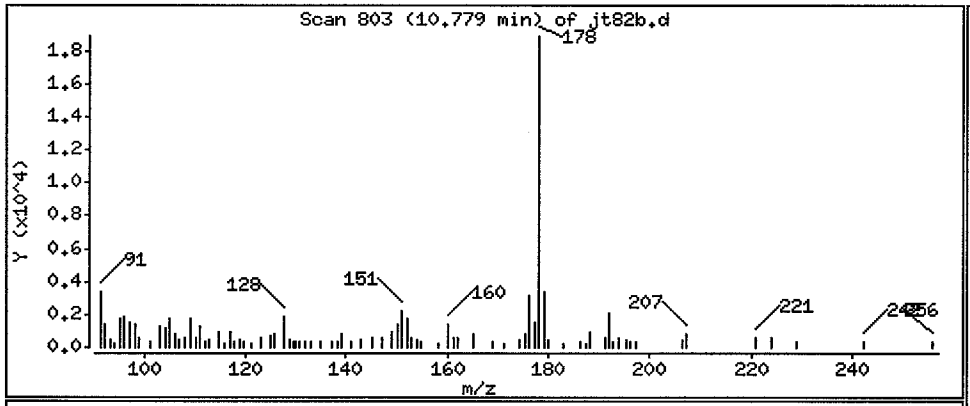
Operator: VTS

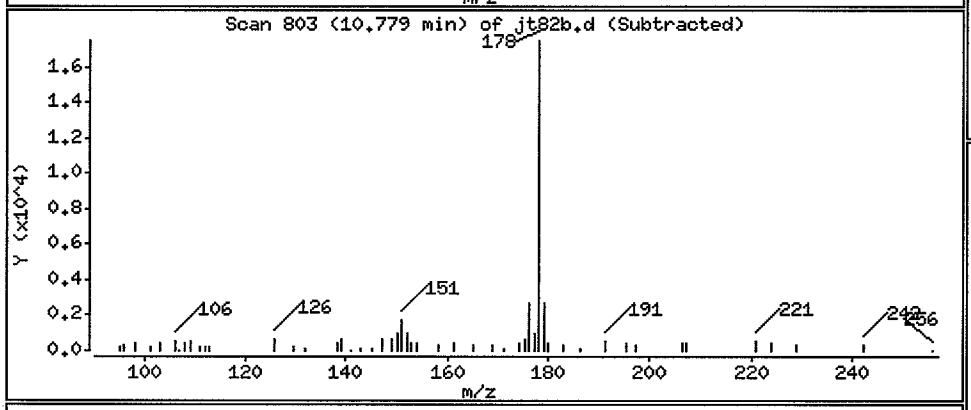
Column phase: ZB-5

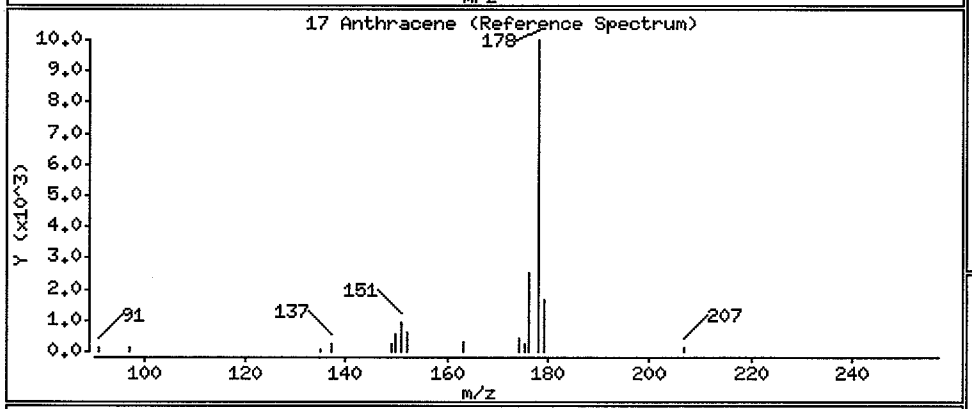
Column diameter: 0.25

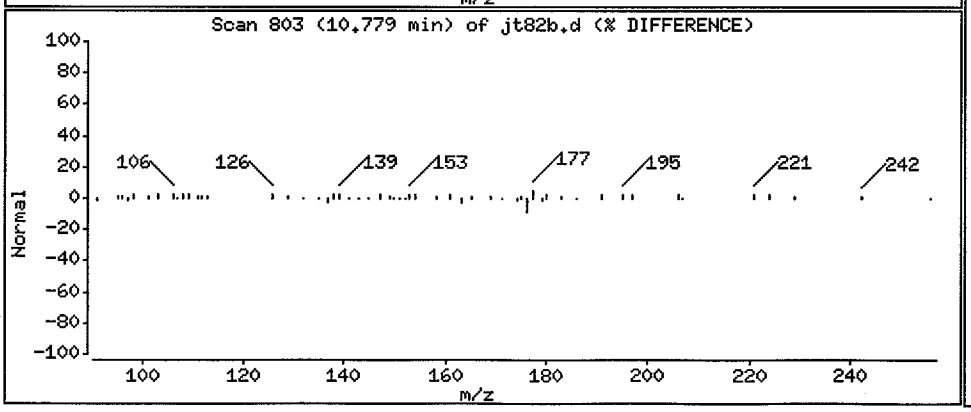
17 Anthracene

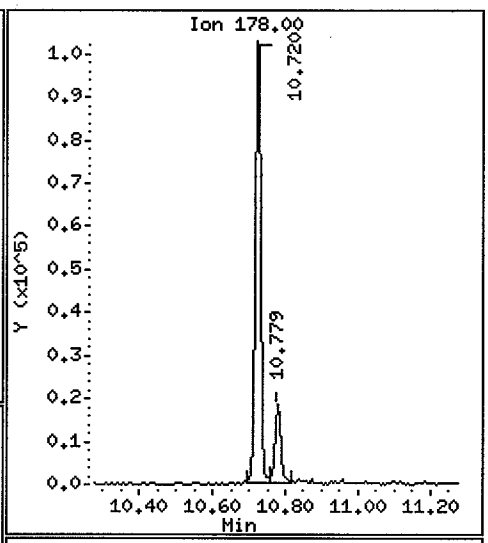
Concentration: 9.306 ug/kg

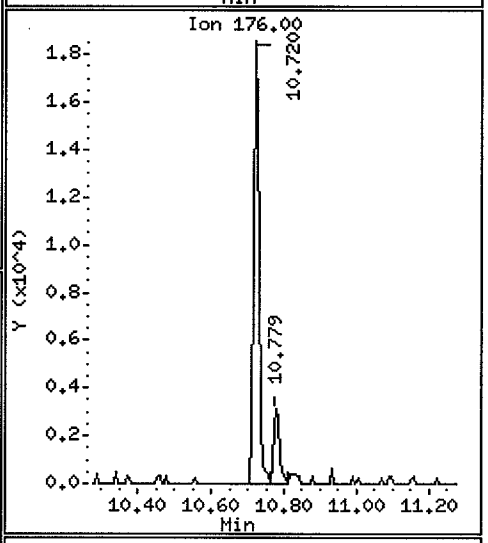


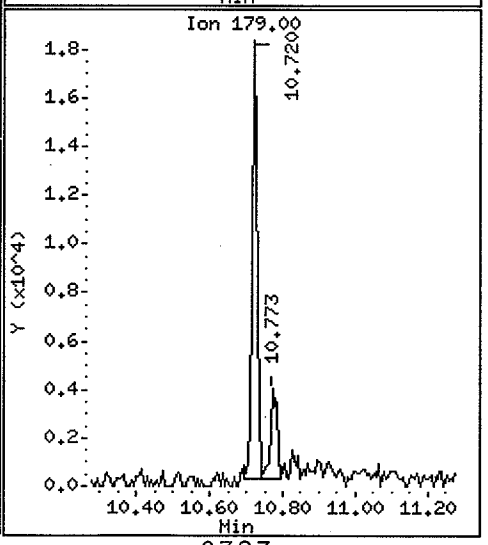












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

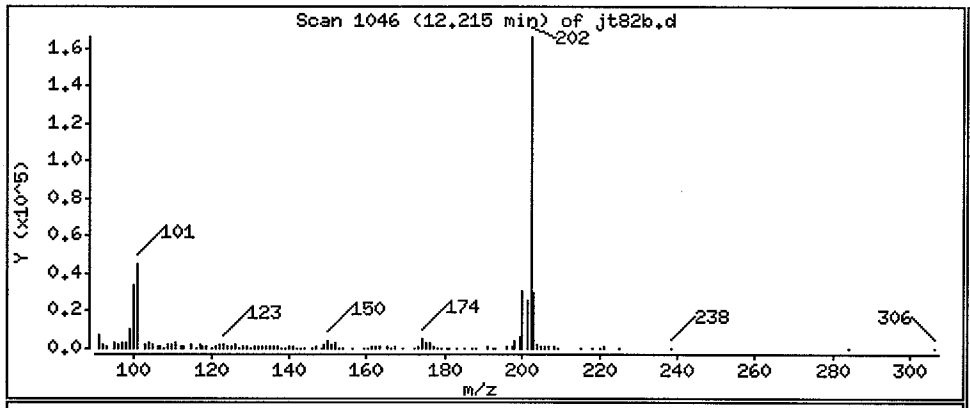
Operator: VTS

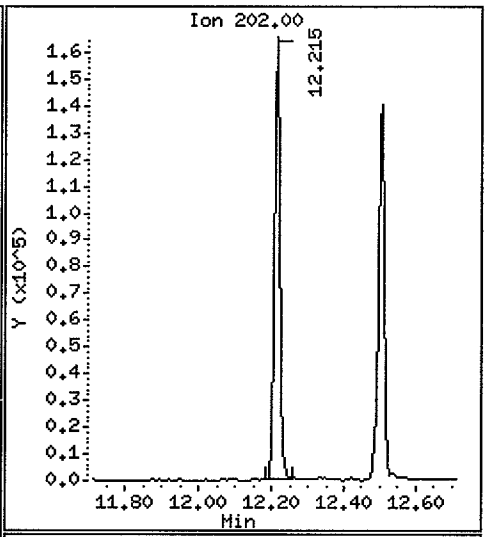
Column phase: ZB-5

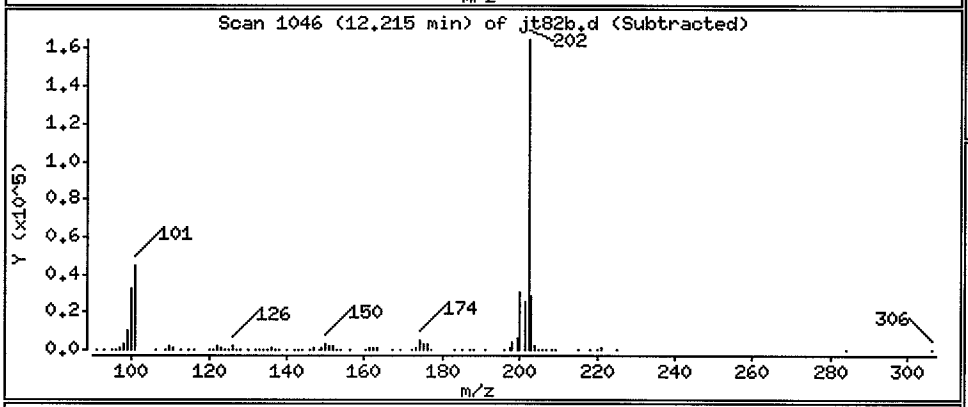
Column diameter: 0.25

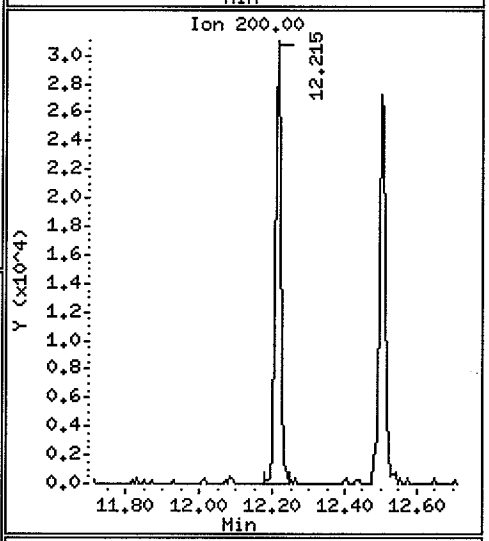
19 Fluoranthene

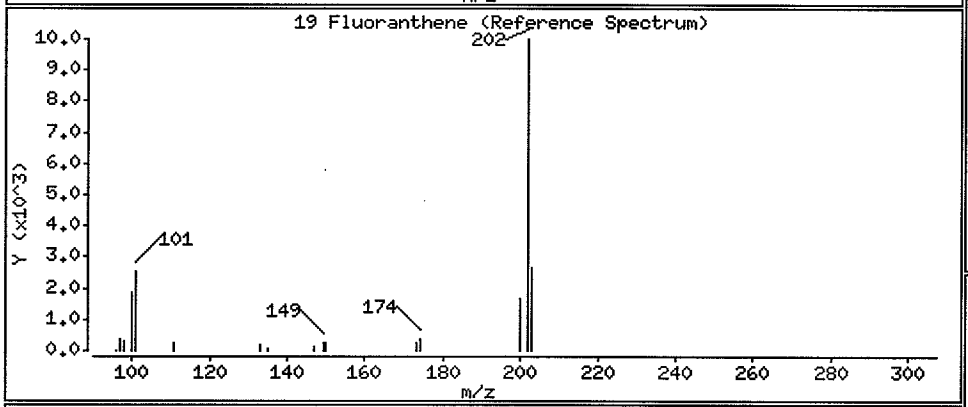
Concentration: 75.87 ug/kg

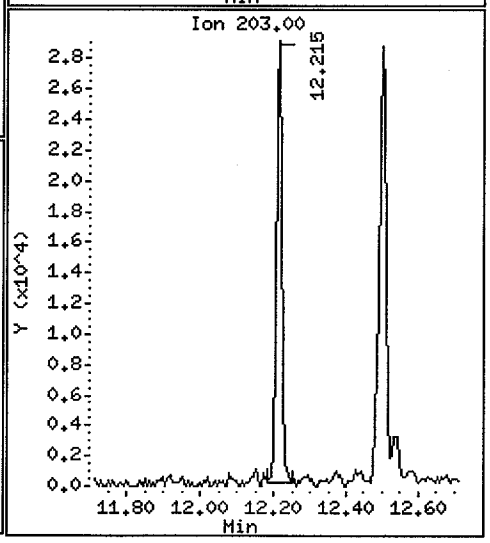


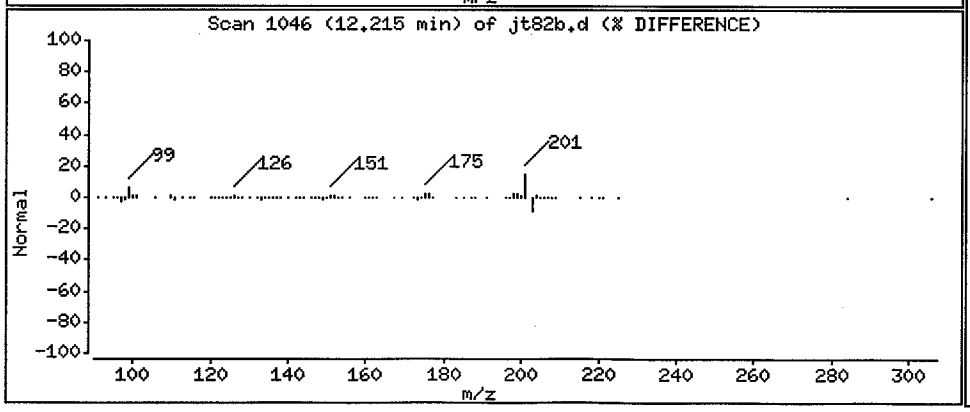












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

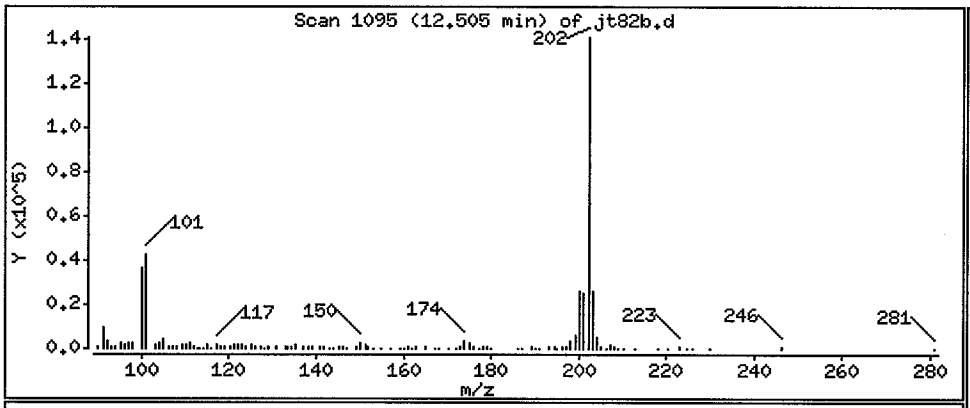
Operator: VTS

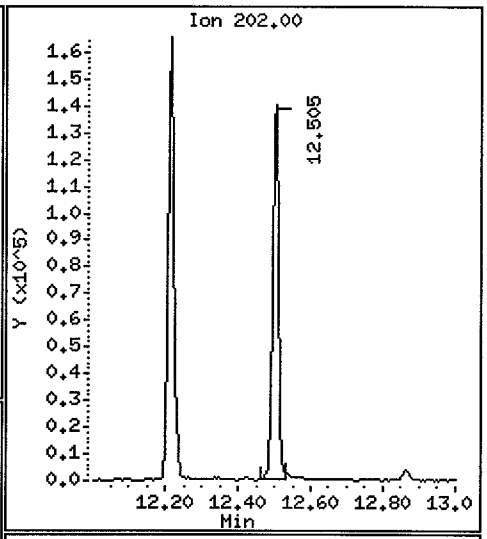
Column phase: ZB-5

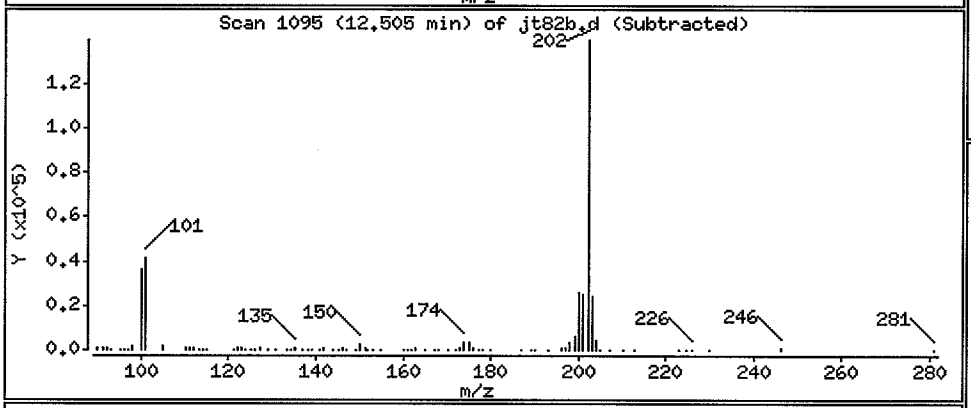
Column diameter: 0.25

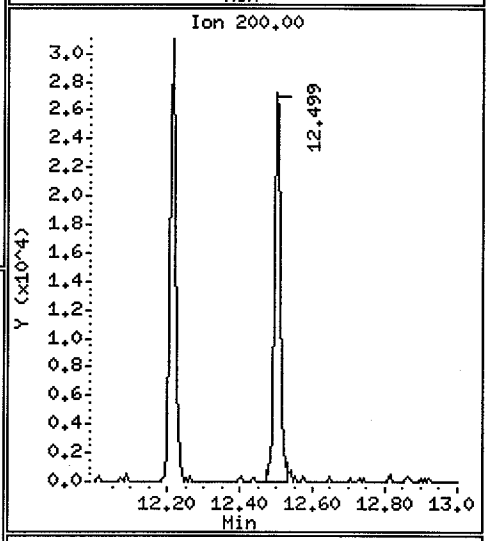
20 Pyrene

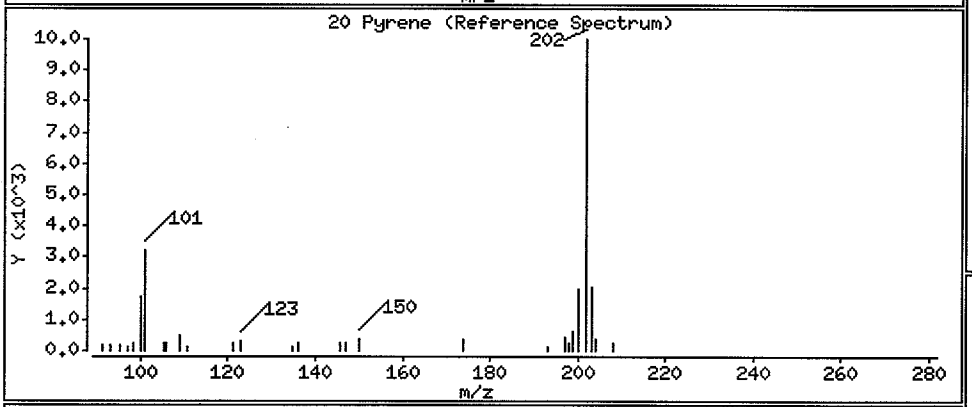
Concentration: 77.37 ug/kg

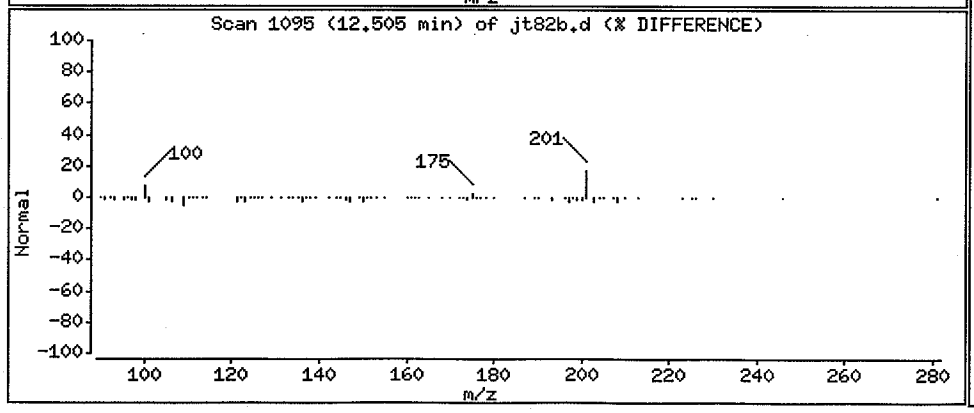


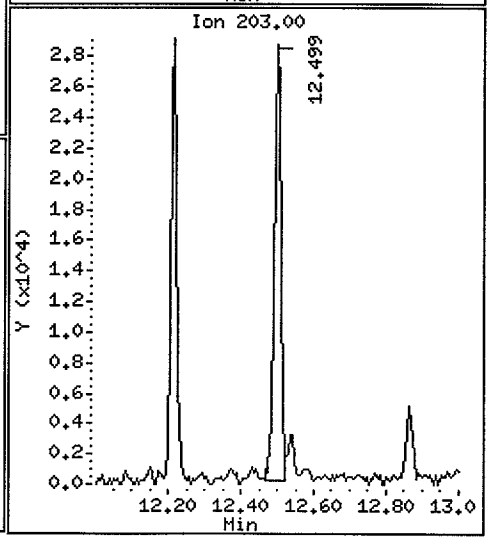












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

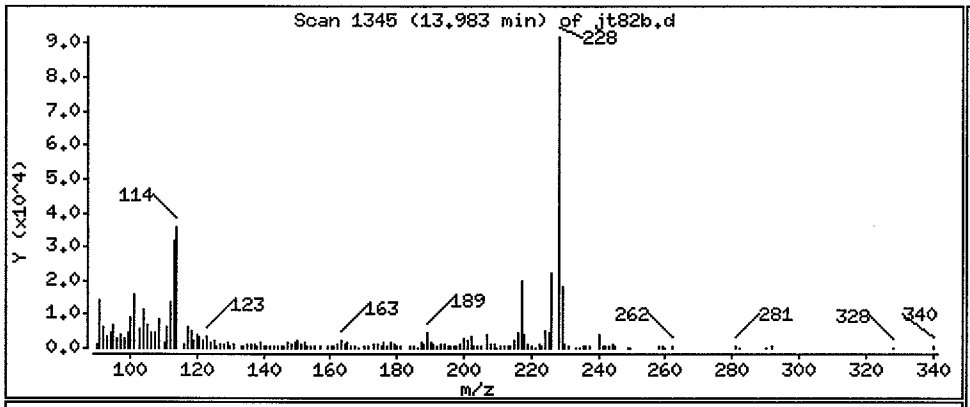
Operator: VTS

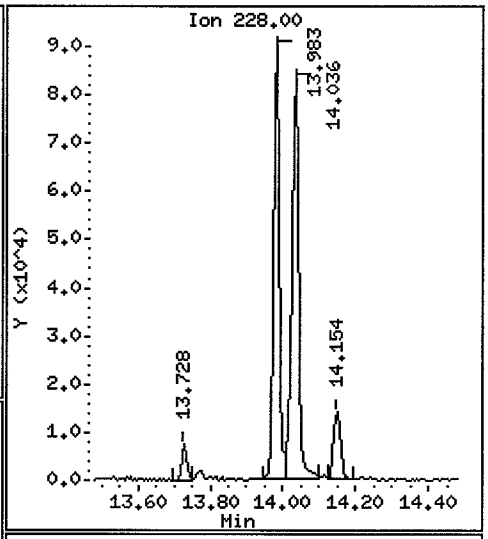
Column phase: ZB-5

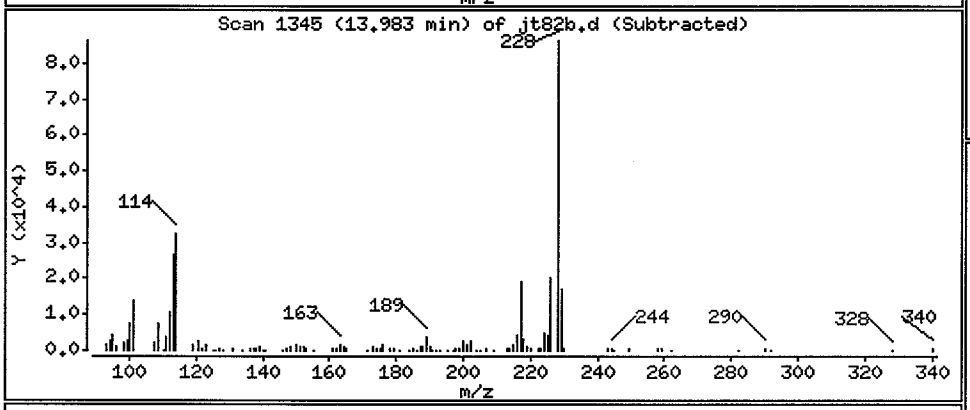
Column diameter: 0.25

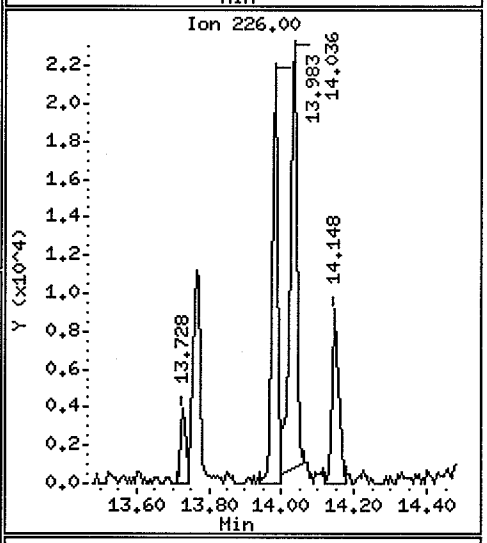
22 Benzo(a)anthracene

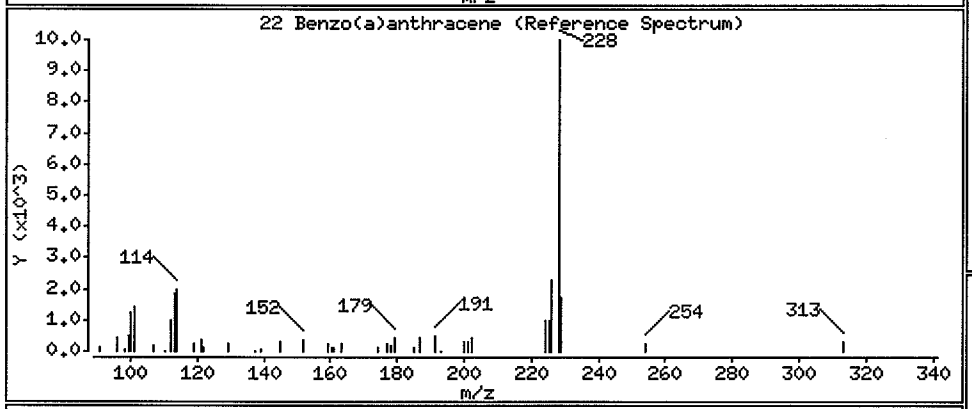
Concentration: 50.83 ug/kg

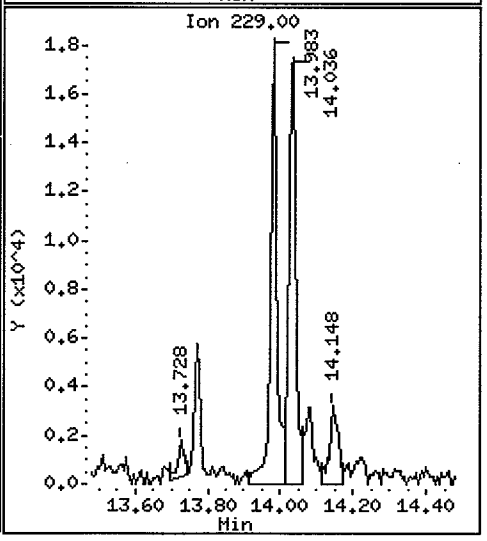


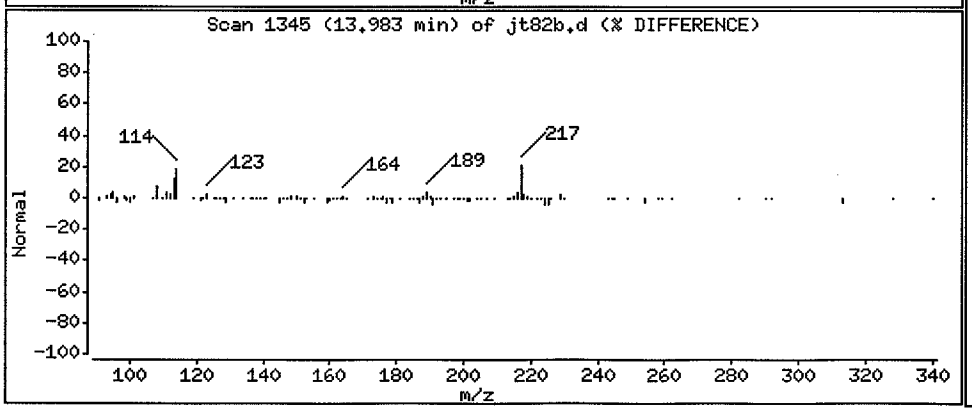












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

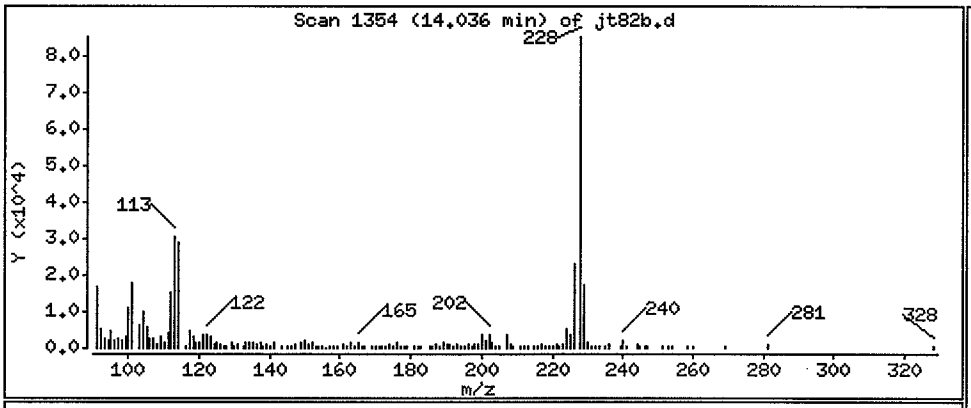
Operator: VTS

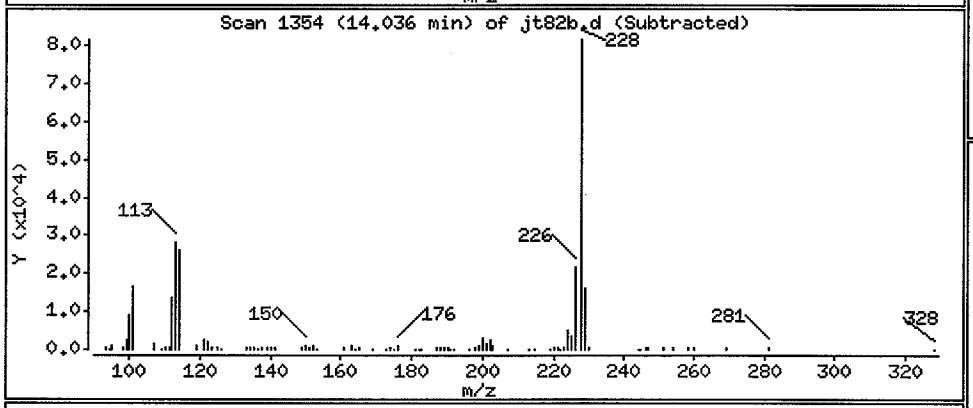
Column phase: ZB-5

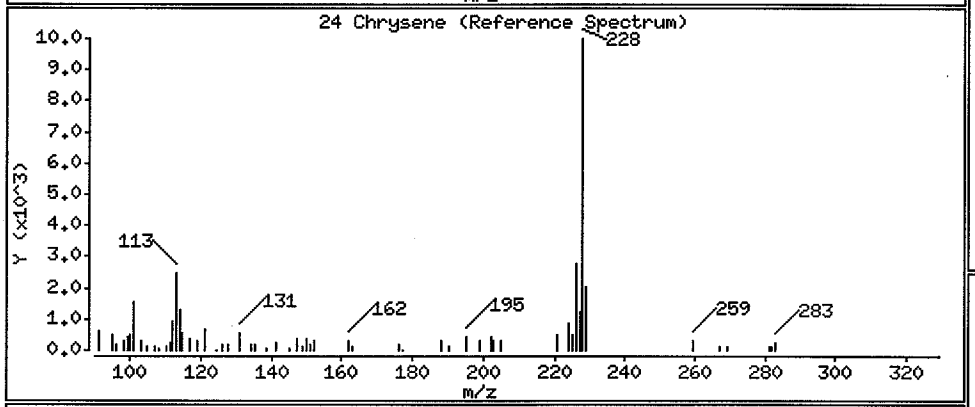
Column diameter: 0.25

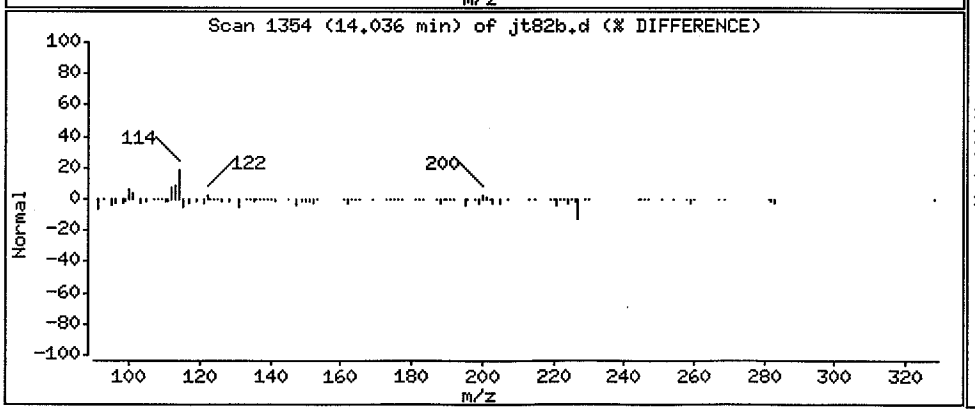
24 Chrysene

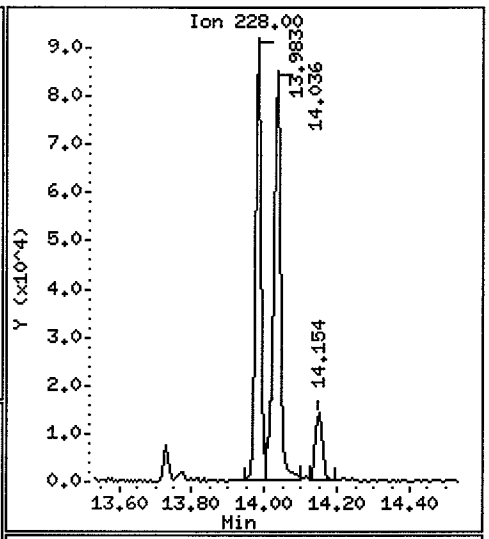
Concentration: 63.04 ug/kg

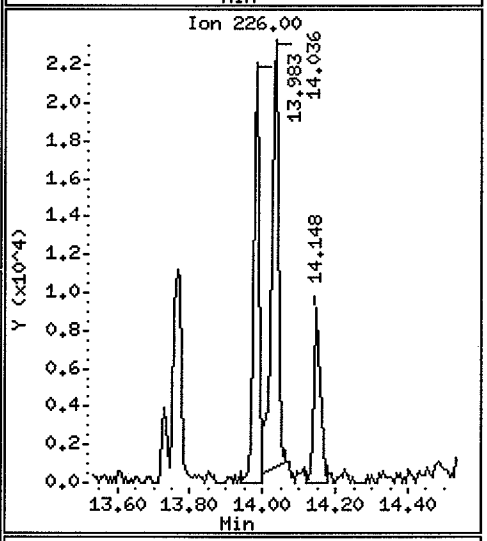


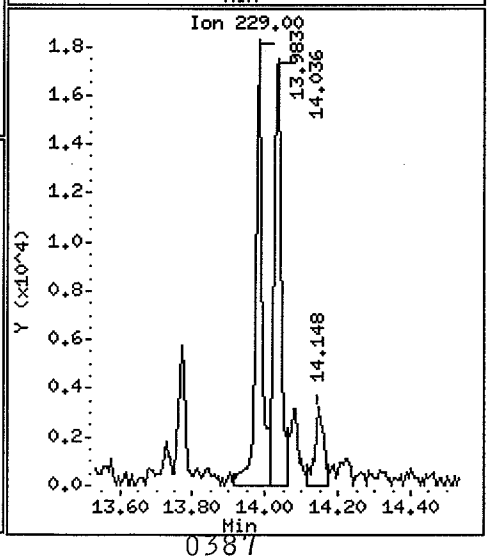












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

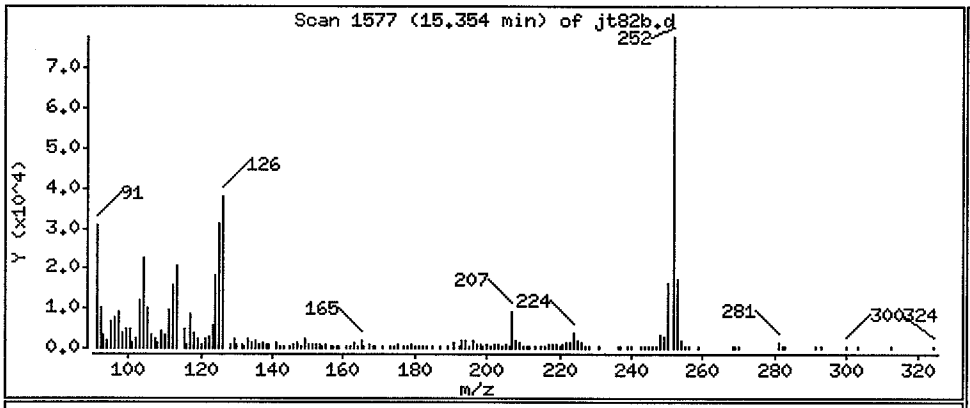
Operator: VTS

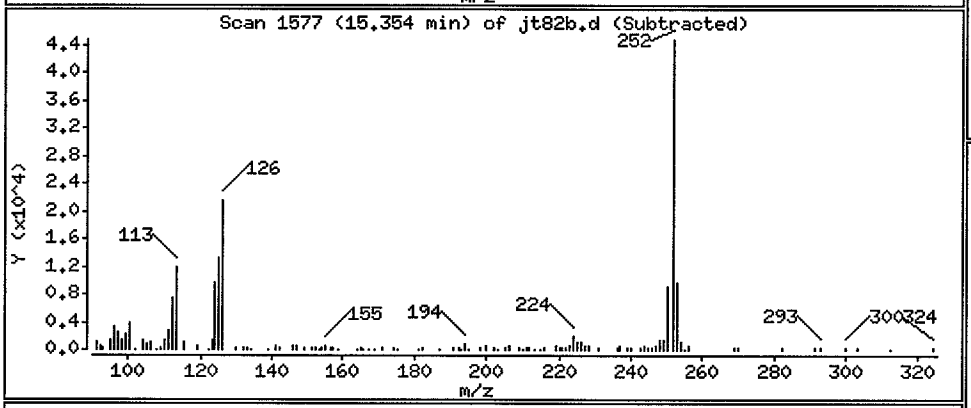
Column phase: ZB-5

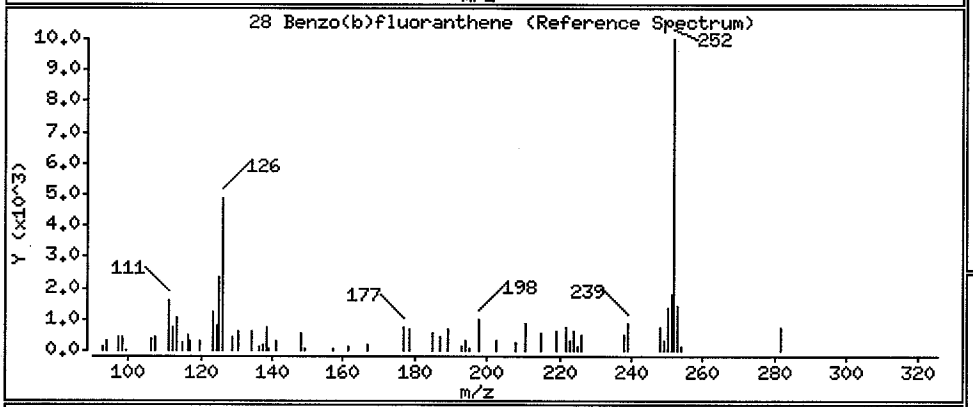
Column diameter: 0.25

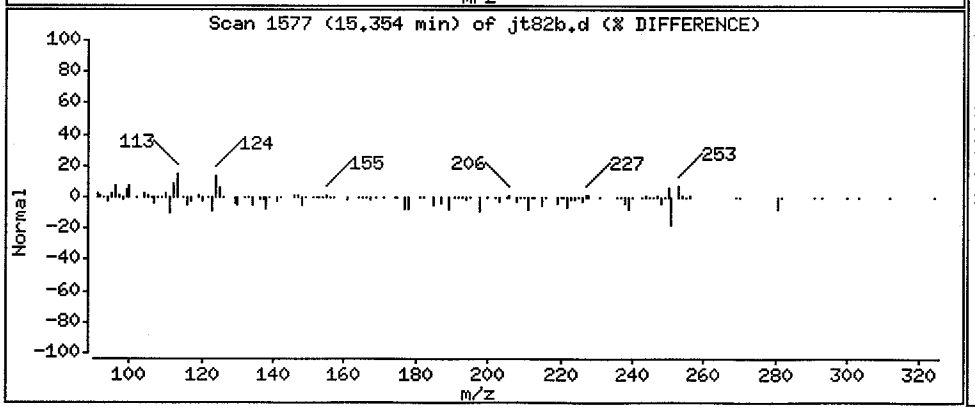
28 Benzo(b)fluoranthene

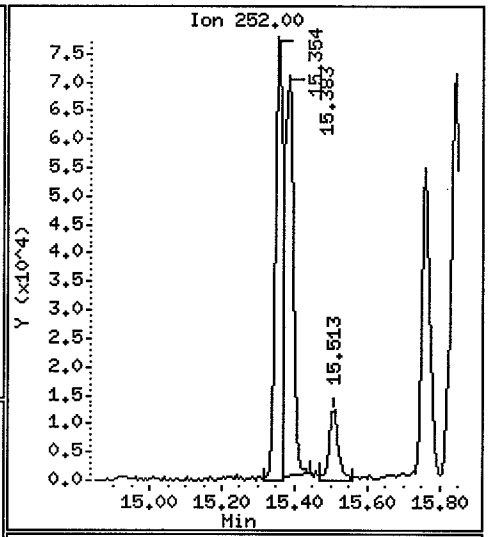
Concentration: 62.27 ug/kg

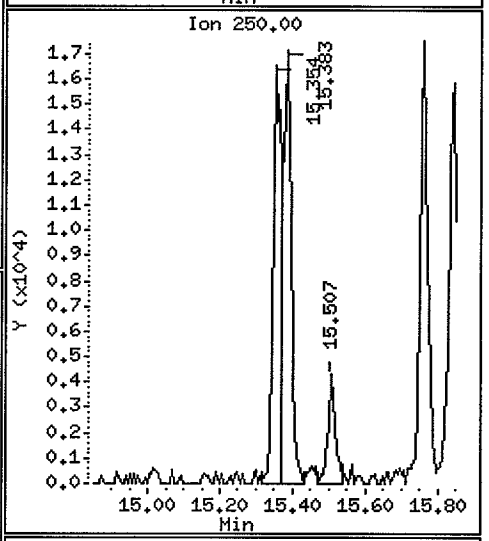


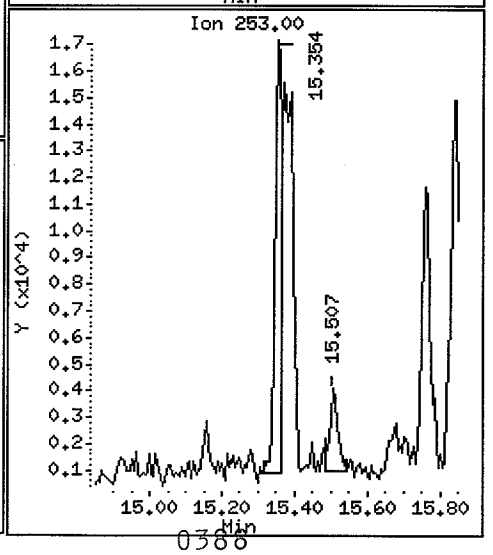












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

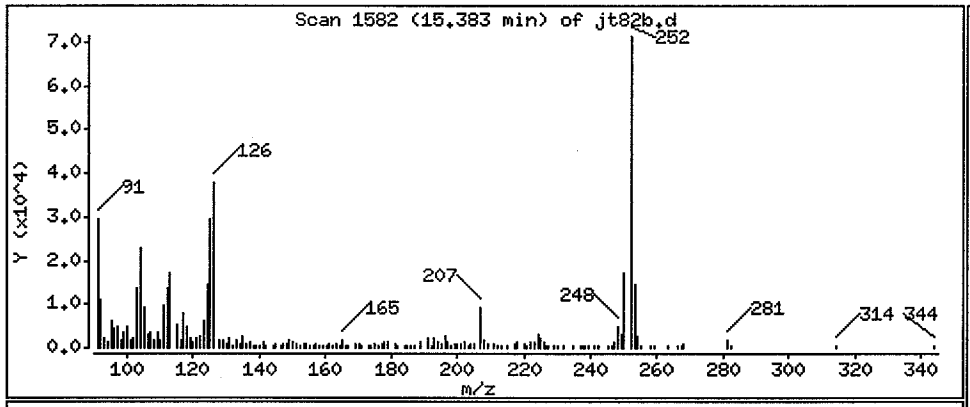
Operator: VTS

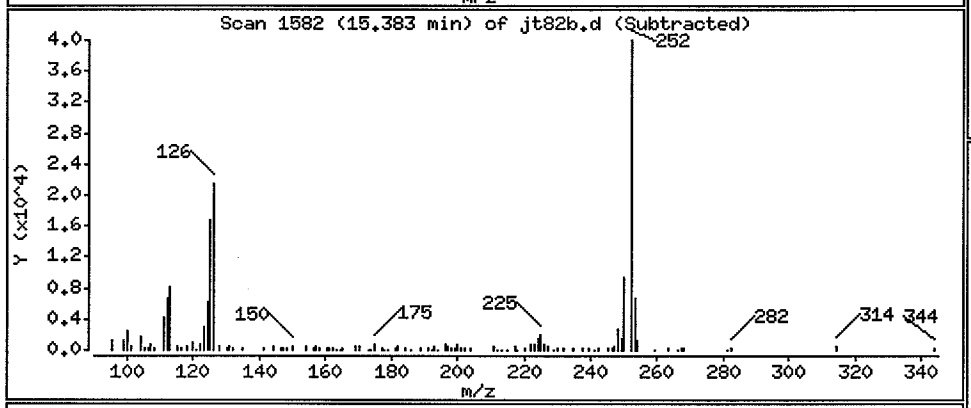
Column phase: ZB-5

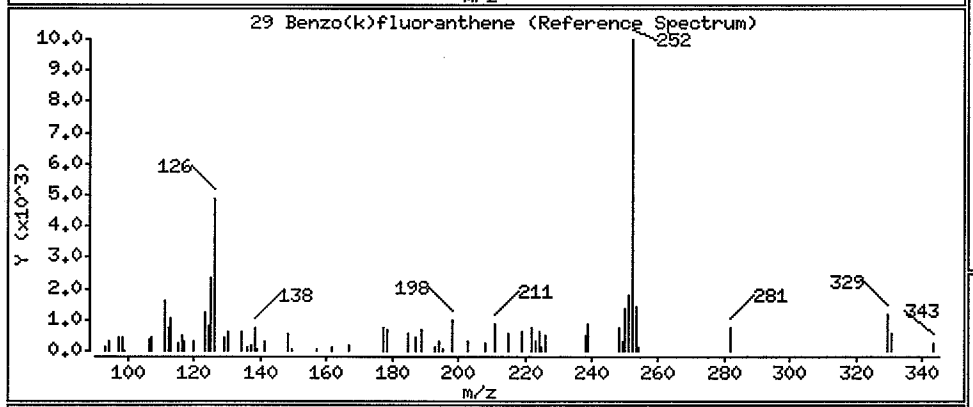
Column diameter: 0.25

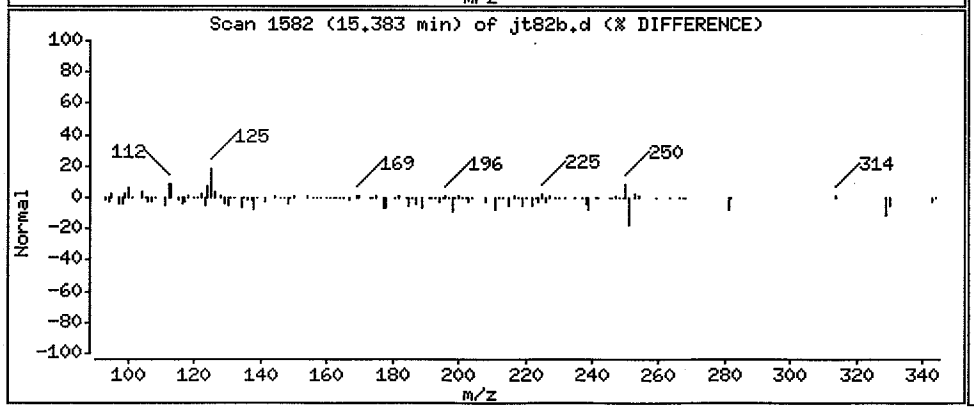
29 Benzo(k)fluoranthene

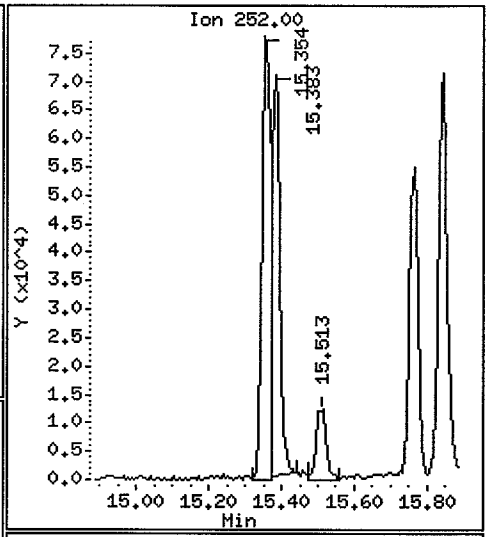
Concentration: 53.32 ug/kg

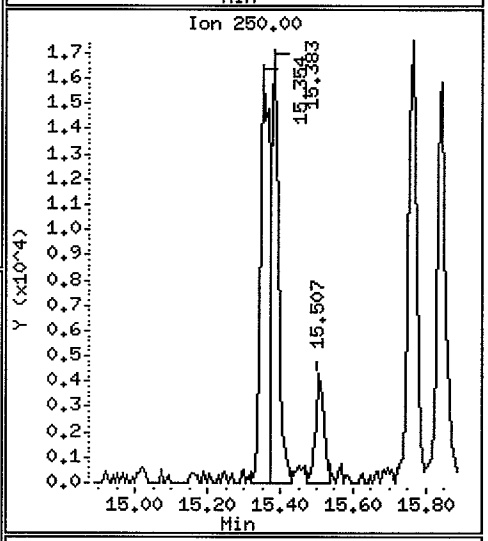


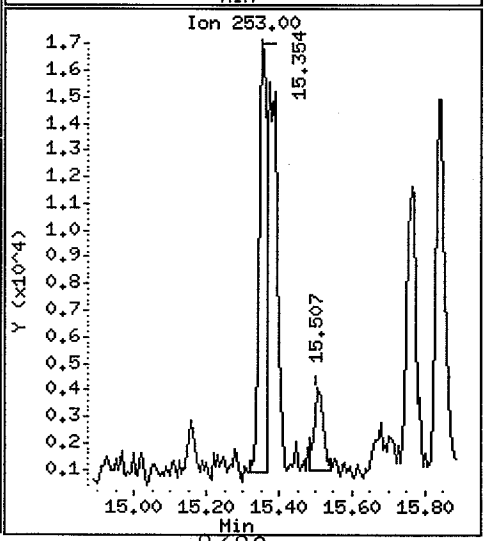












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

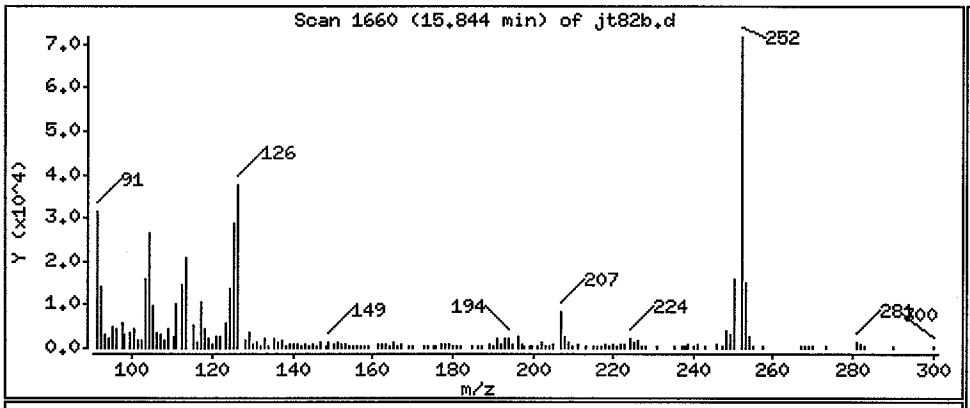
Operator: VTS

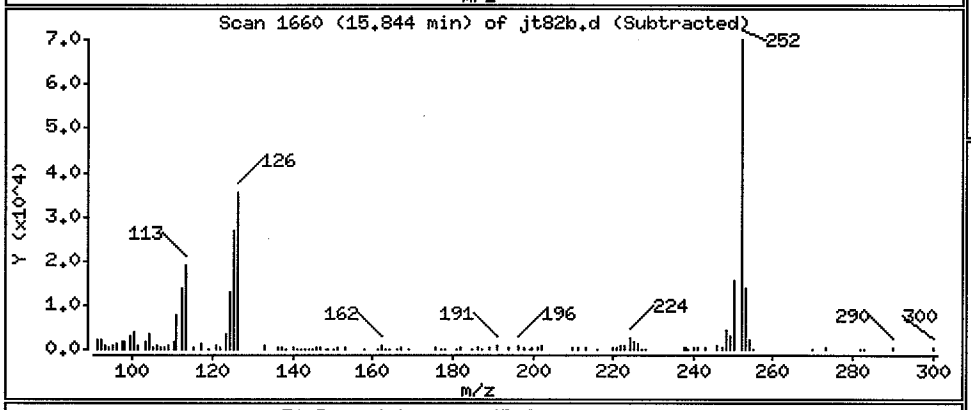
Column phase: ZB-5

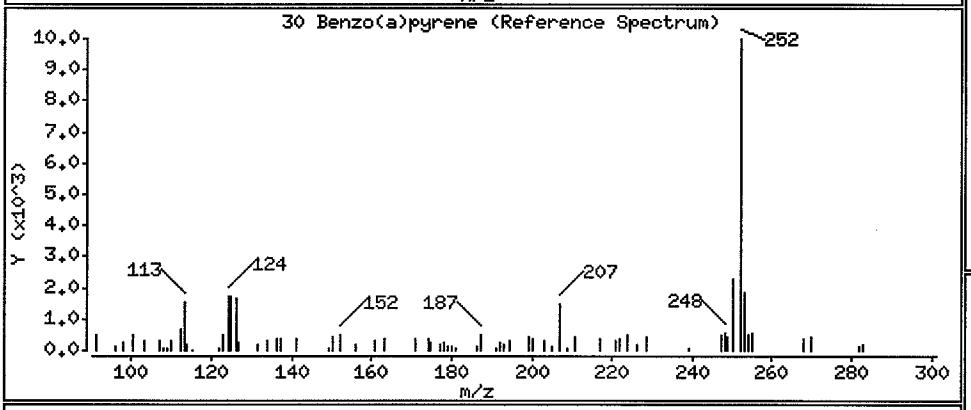
Column diameter: 0.25

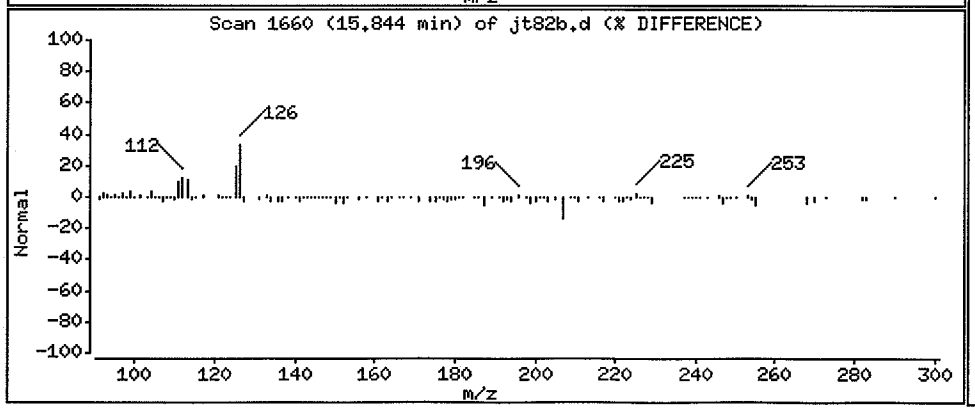
30 Benzo(a)pyrene

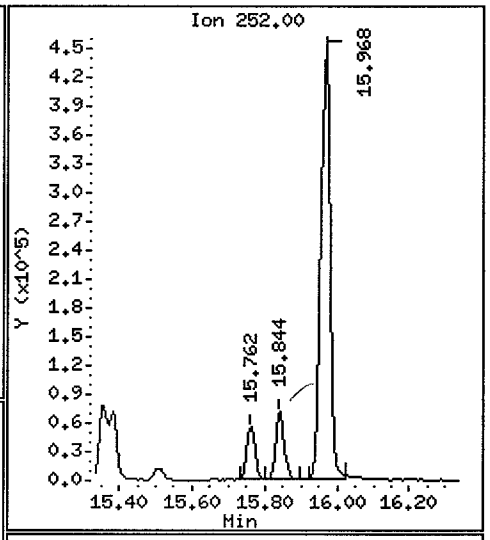
Concentration: 60.47 ug/kg

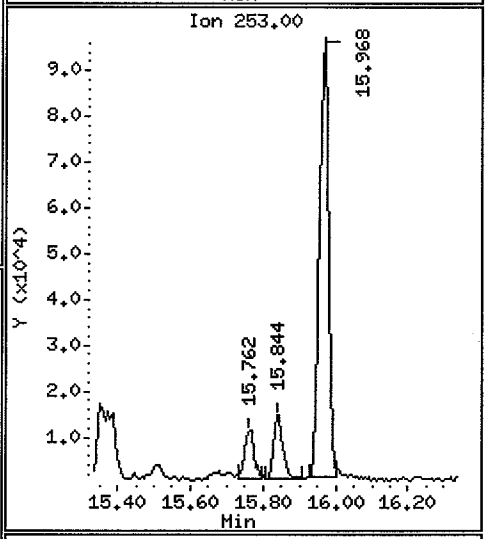


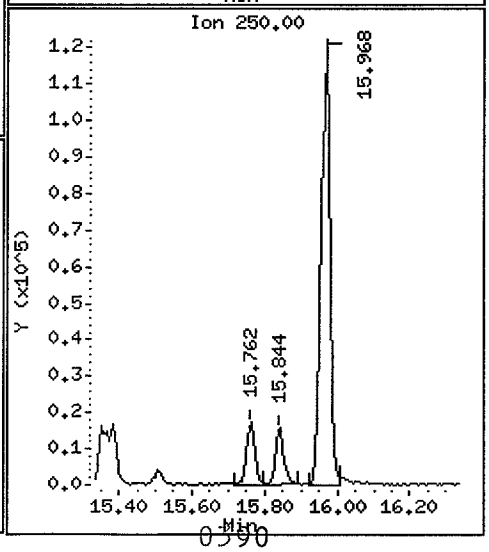












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

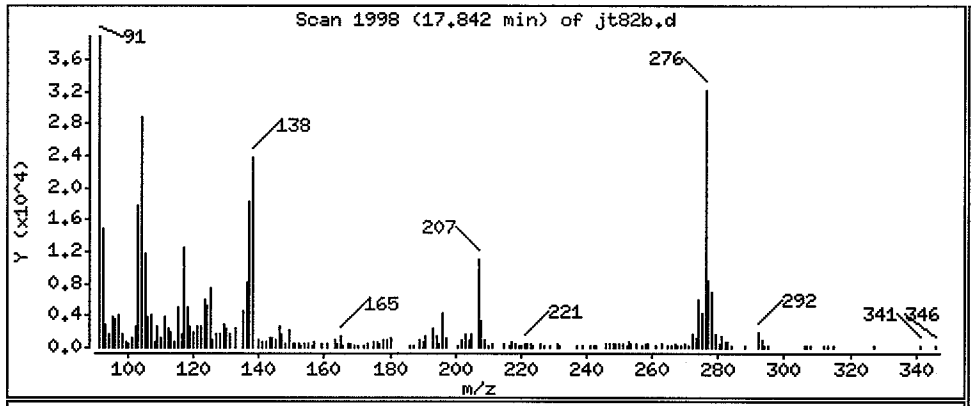
Operator: VTS

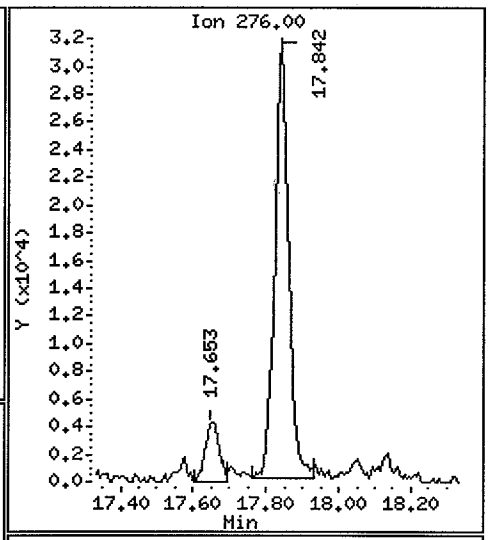
Column phase: ZB-5

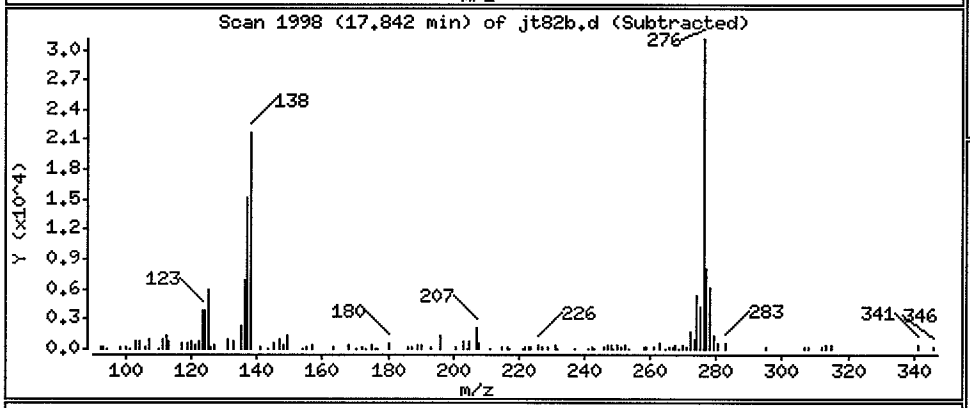
Column diameter: 0.25

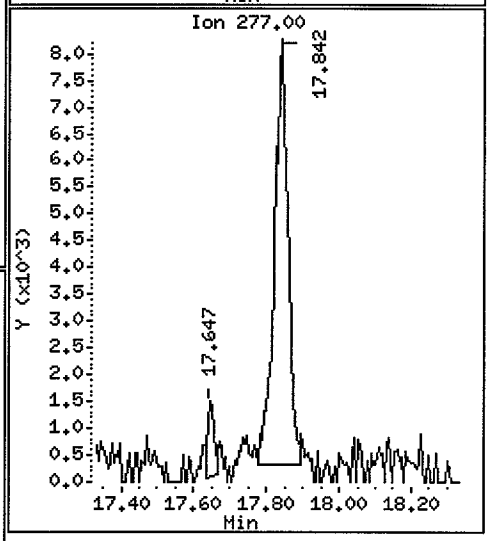
33 Indeno(1,2,3-cd)pyrene

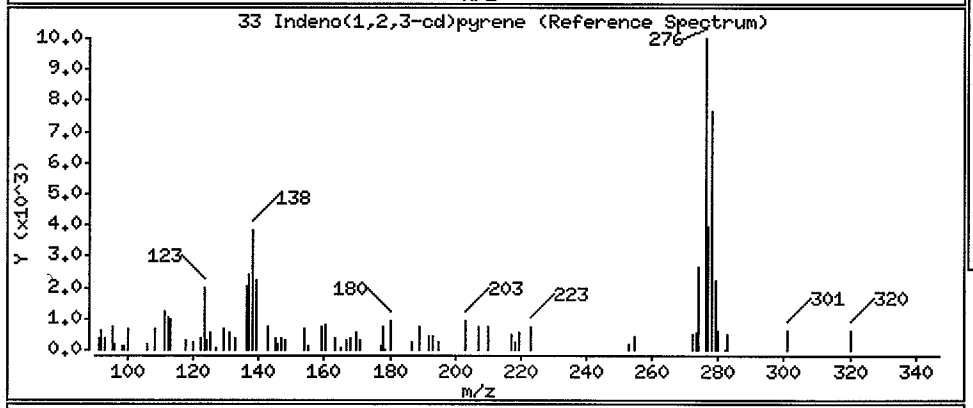
Concentration: 35.99 ug/kg

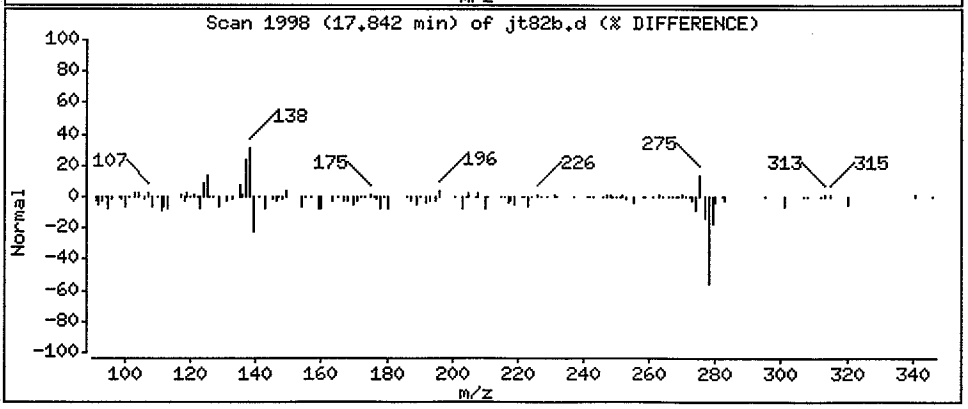












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

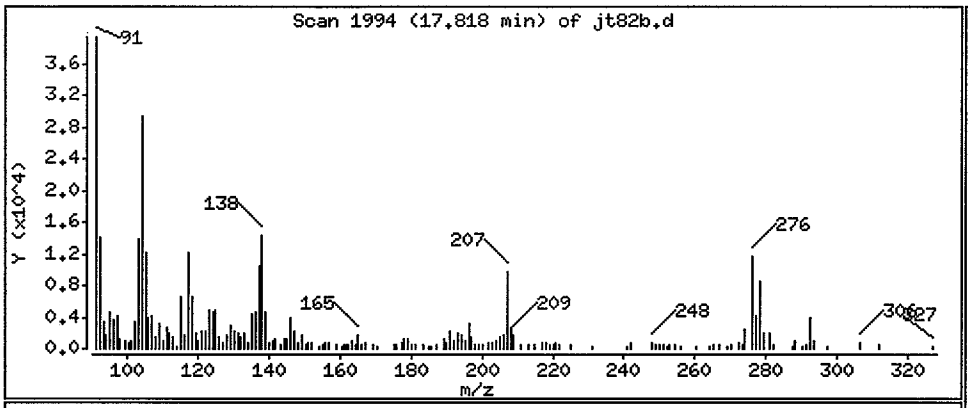
Operator: VTS

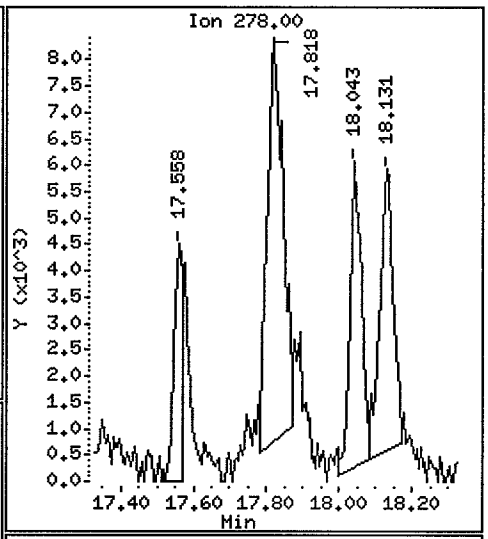
Column phase: ZB-5

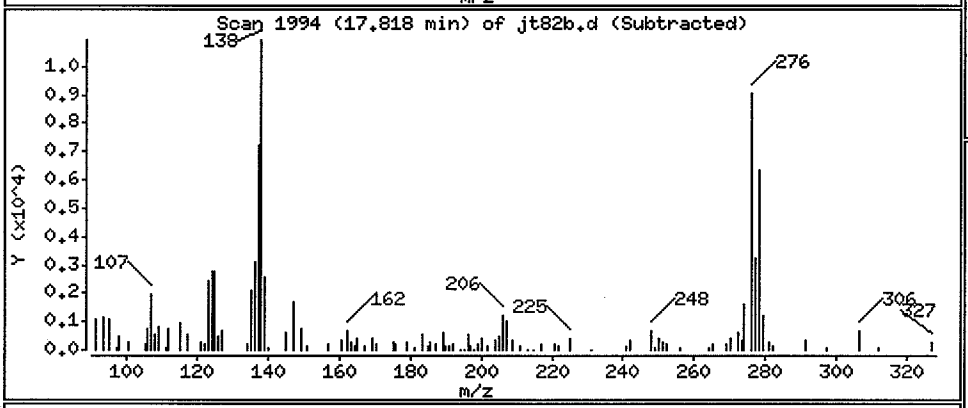
Column diameter: 0.25

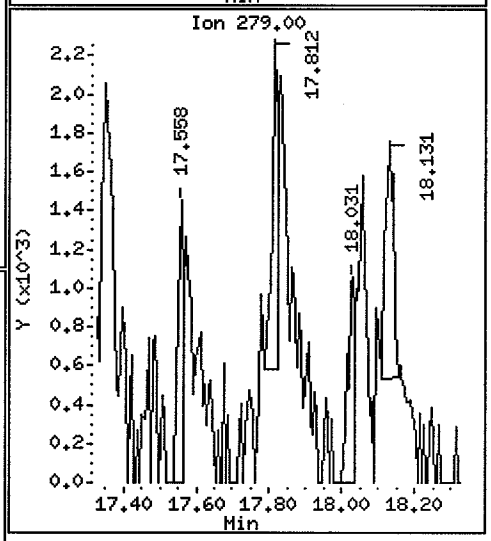
34 Dibenz(a,h)anthracene

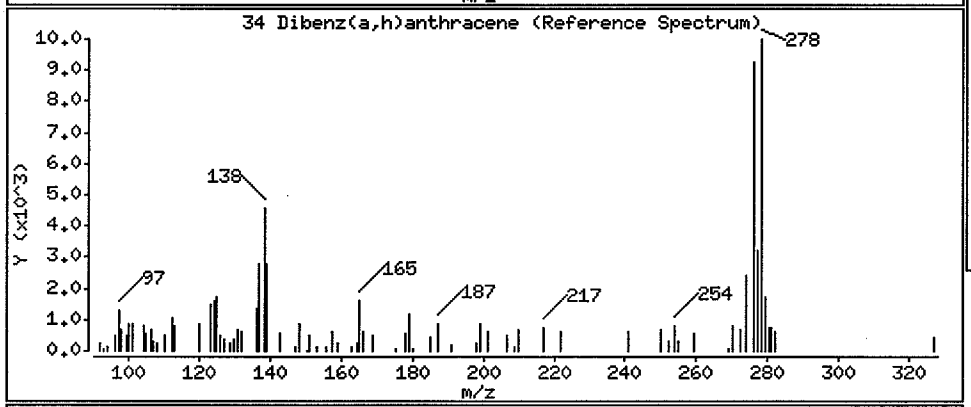
Concentration: 12.48 ug/kg

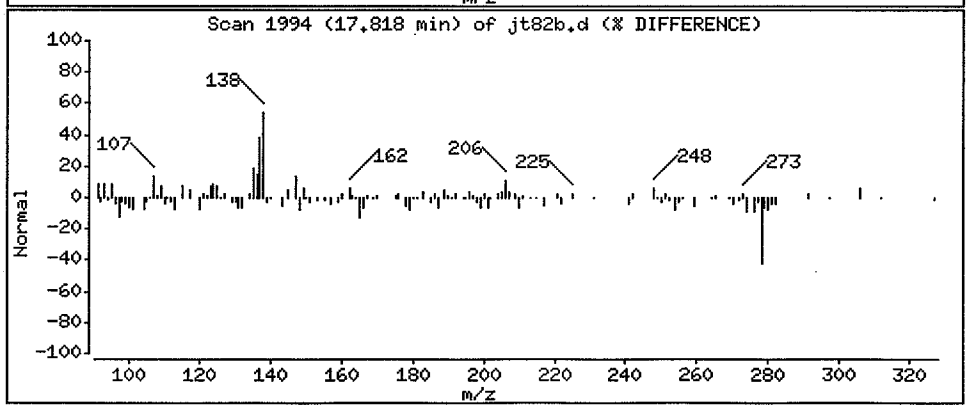












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

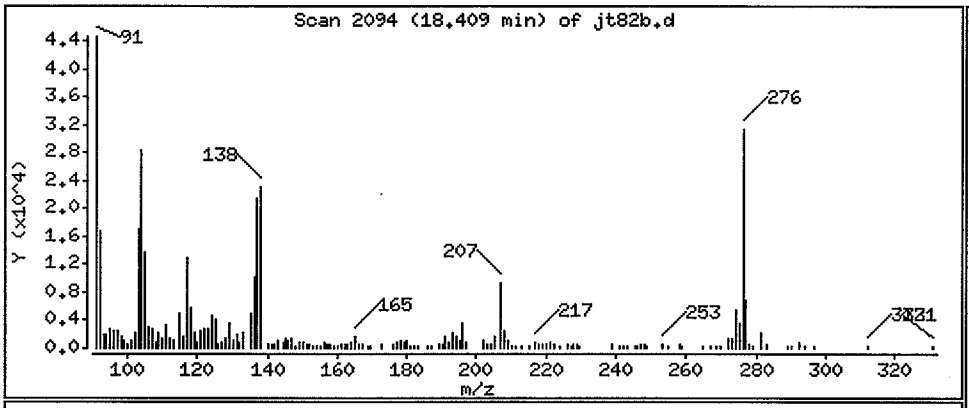
Operator: VTS

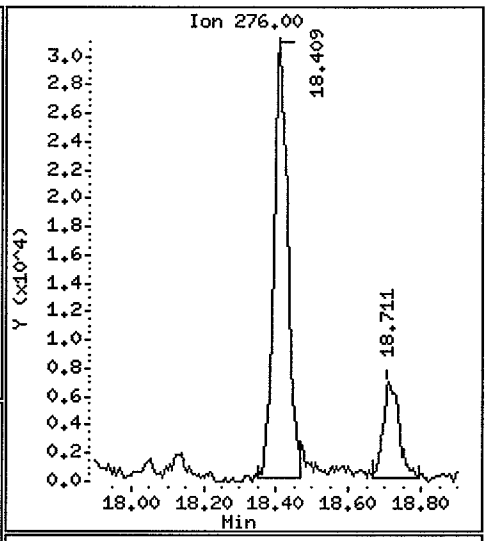
Column phase: ZB-5

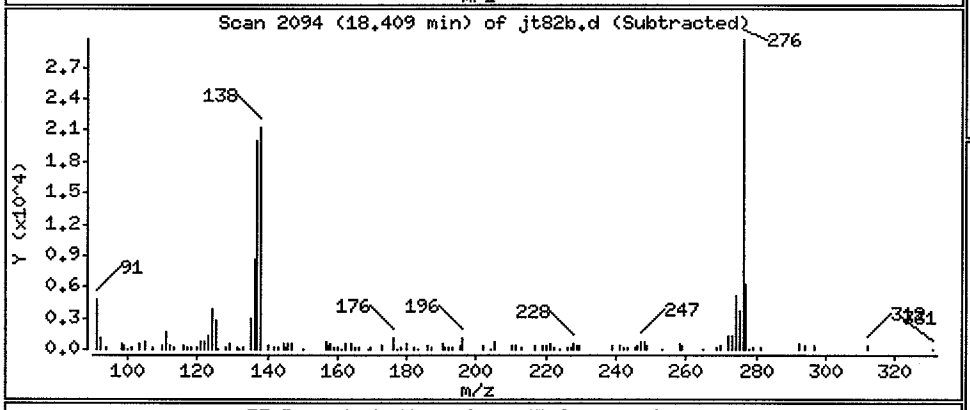
Column diameter: 0.25

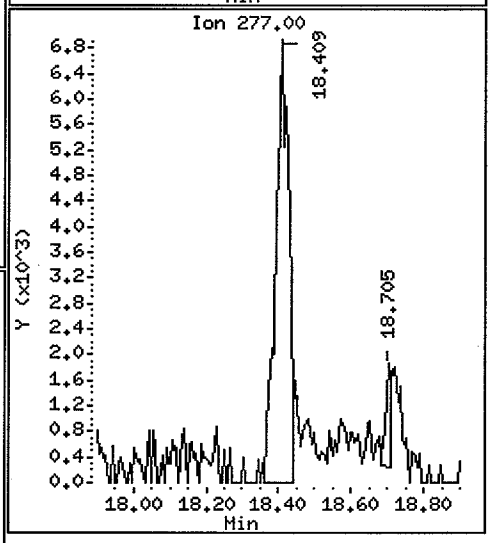
35 Benzo(g,h,i)perylene

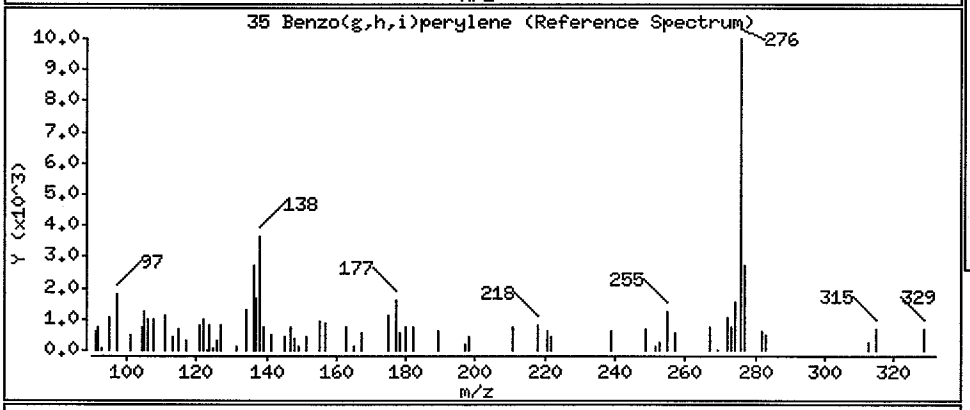
Concentration: 42.45 ug/kg

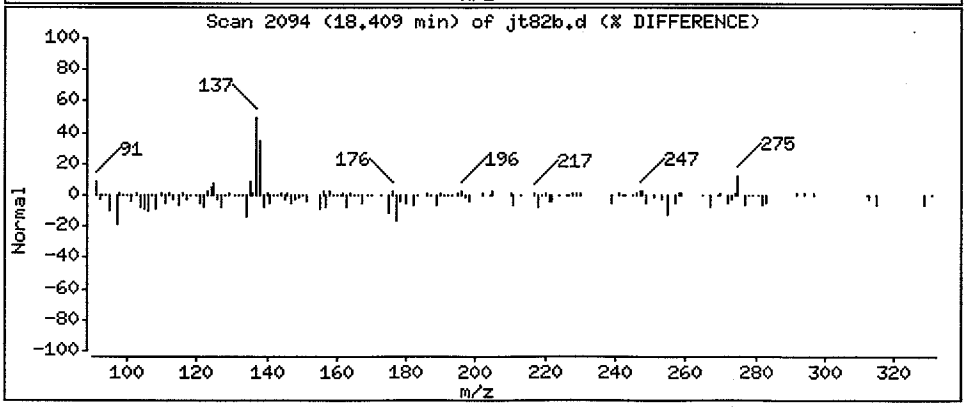












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

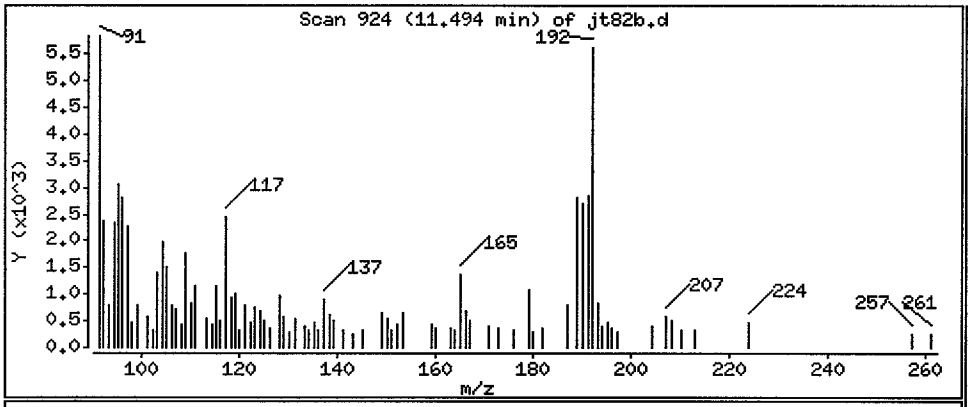
Operator: VTS

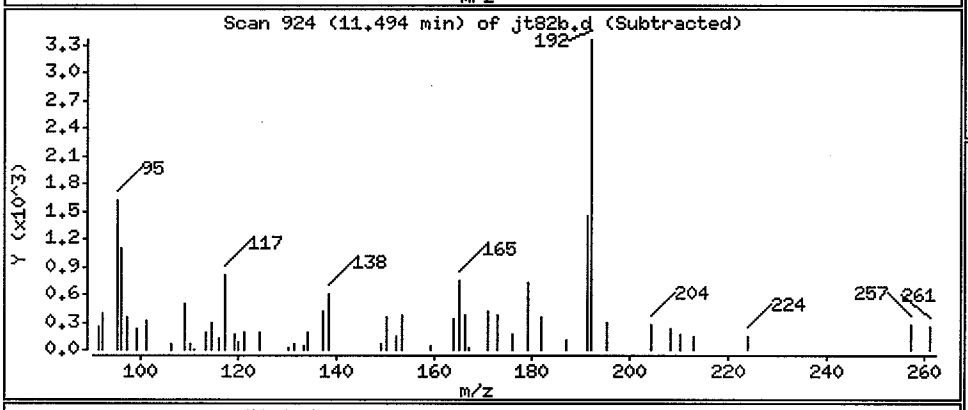
Column phase: ZB-5

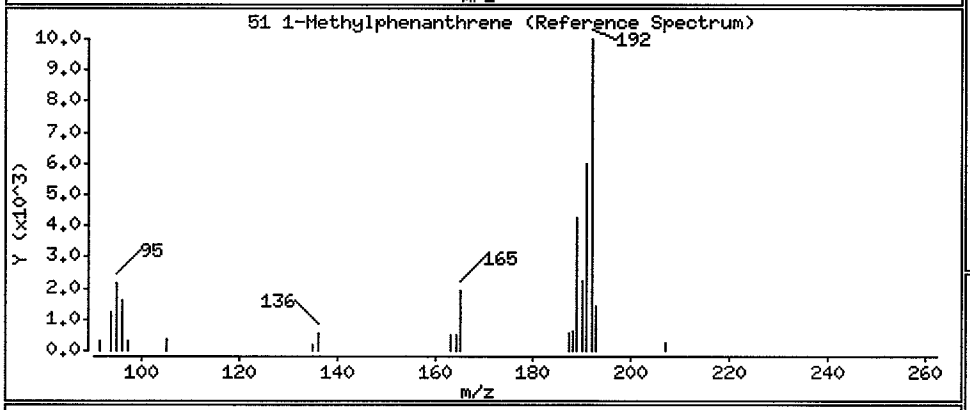
Column diameter: 0.25

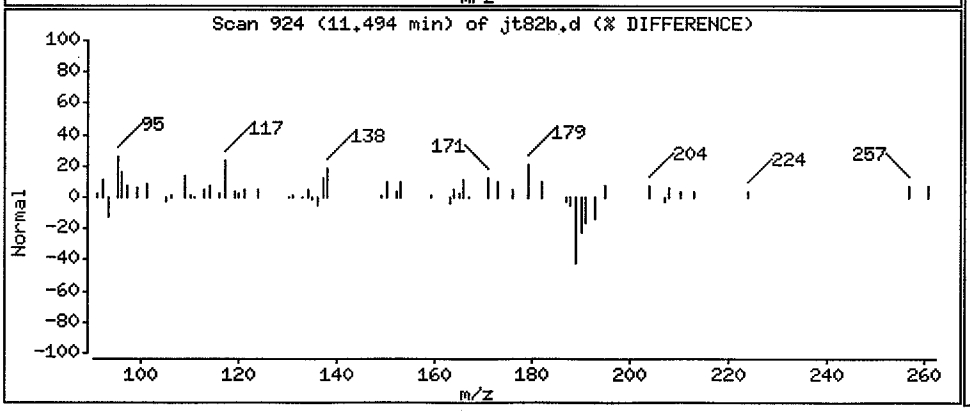
51 1-Methylphenanthrene

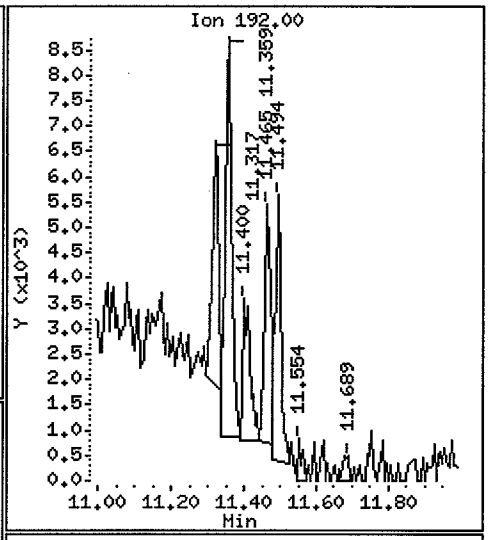
Concentration: 4.814 ug/kg

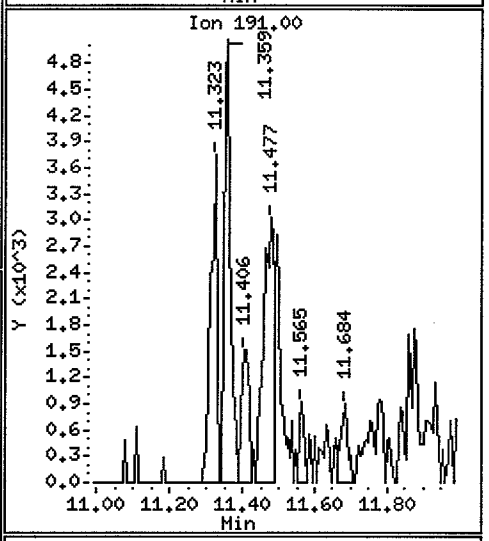


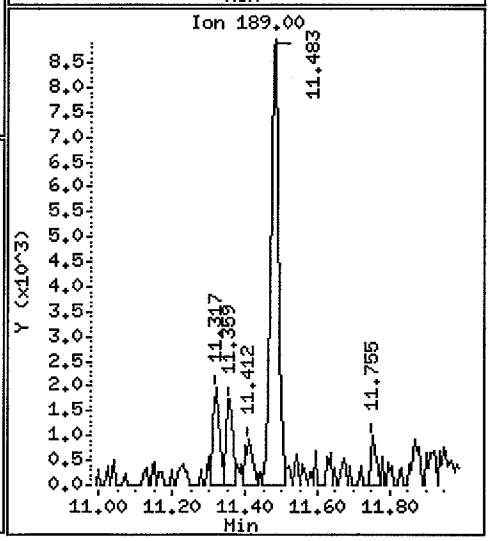












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

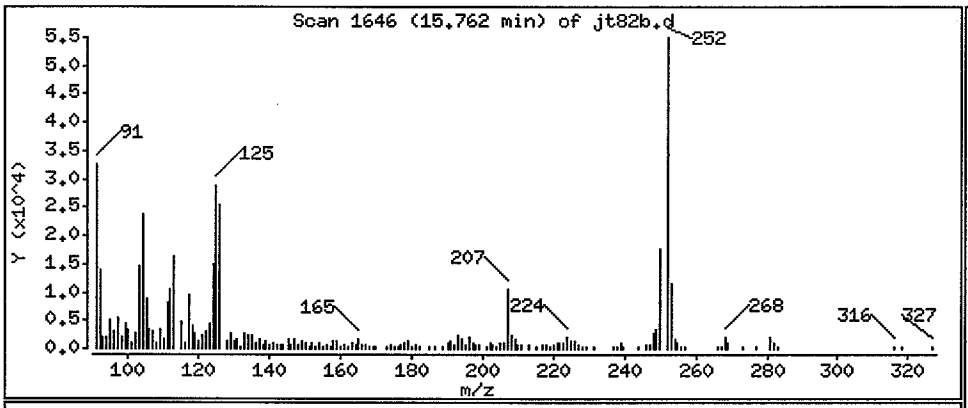
Operator: VTS

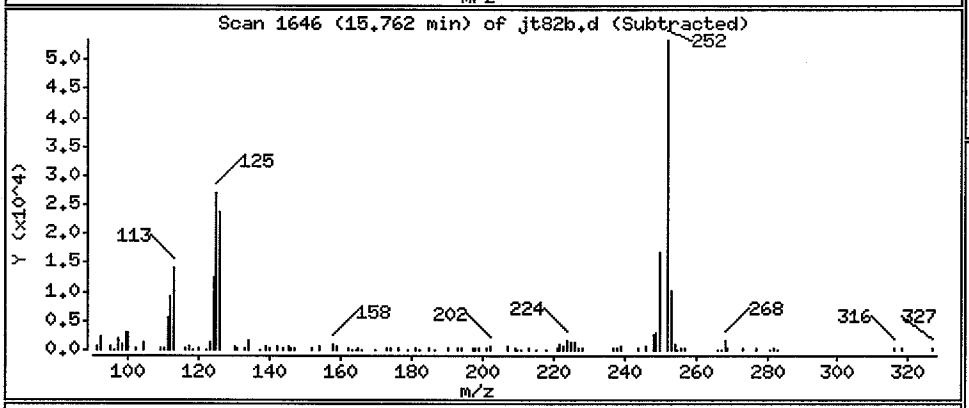
Column phase: ZB-5

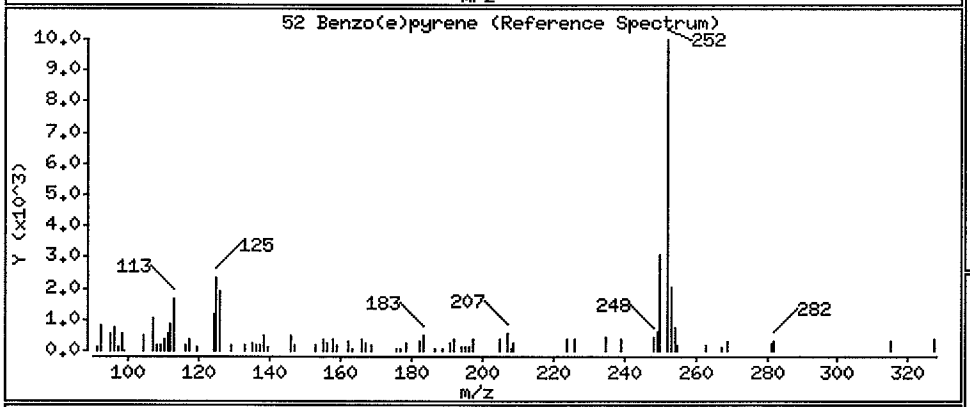
Column diameter: 0.25

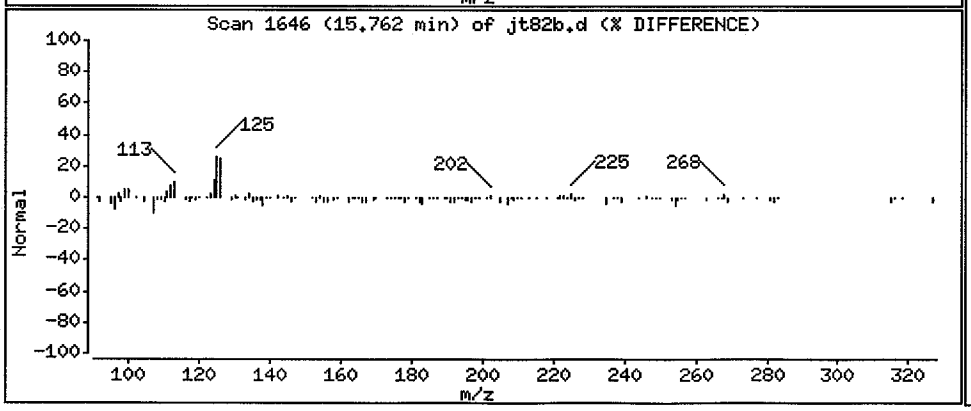
52 Benzo(e)pyrene

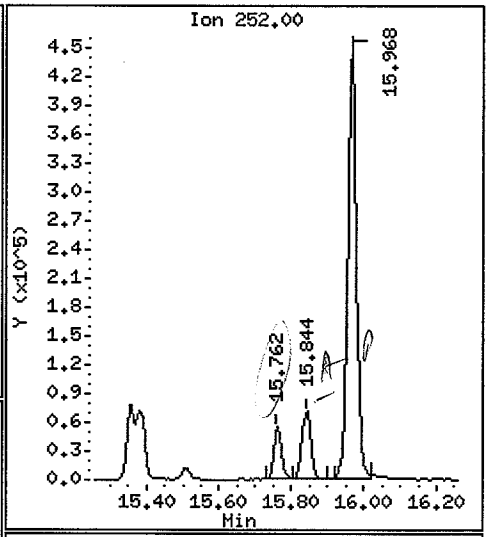
Concentration: 37.80 ug/kg

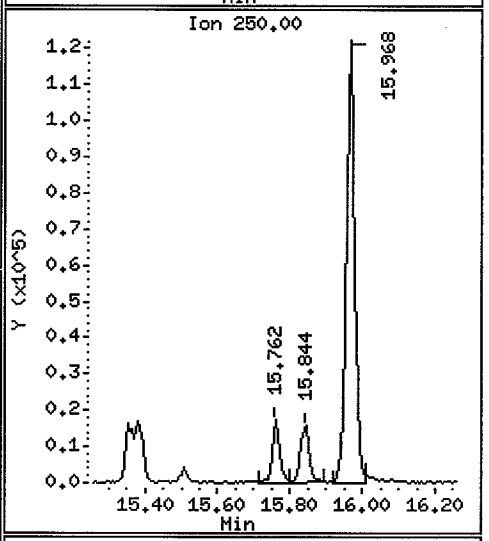


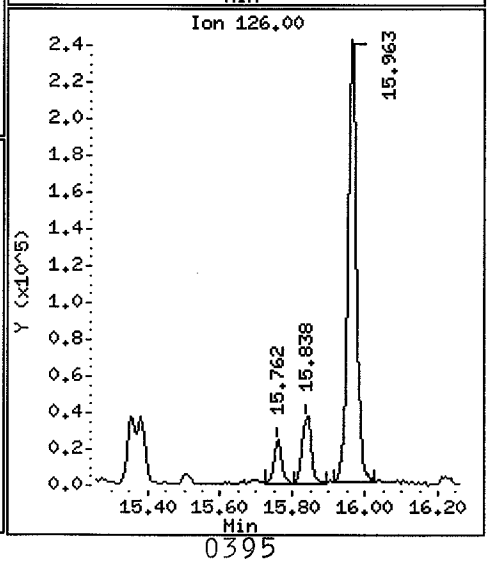












Data File: /chem3/nt1.i/20060831.b/jt82b.d

Date : 31-AUG-2006 13:02

Client ID: T4-S3-01-K

Instrument: nt1.i

Sample Info: JT82B

Volume Injected (uL): 1.0

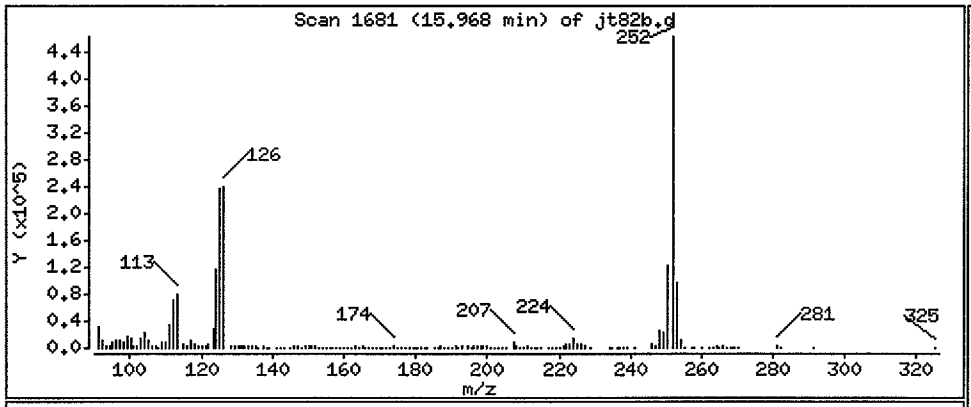
Operator: VTS

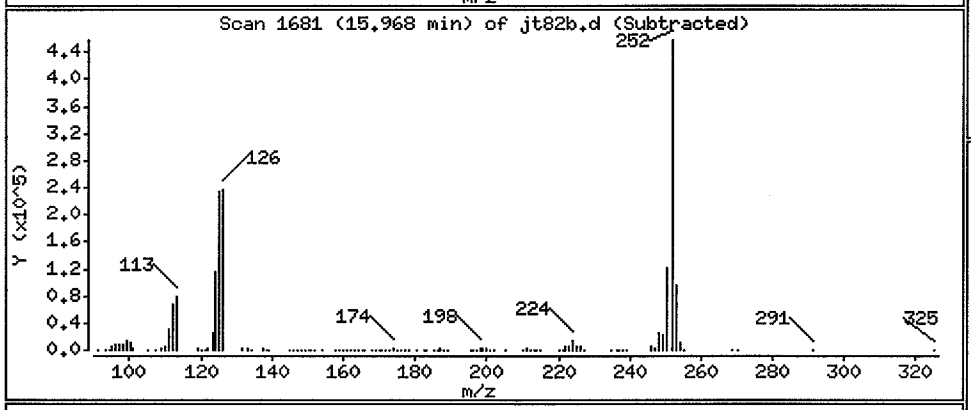
Column phase: ZB-5

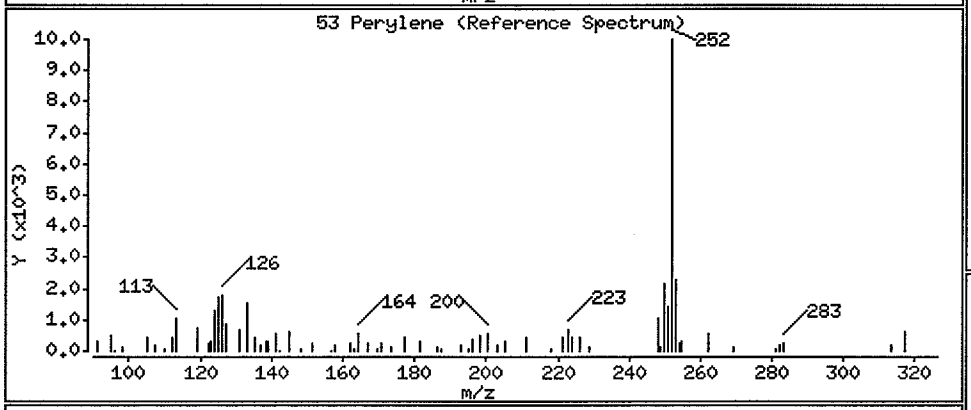
Column diameter: 0.25

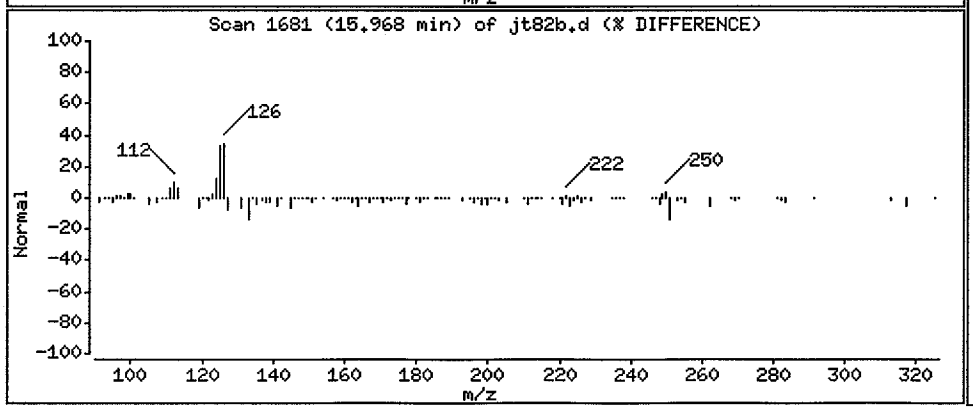
53 Perylene

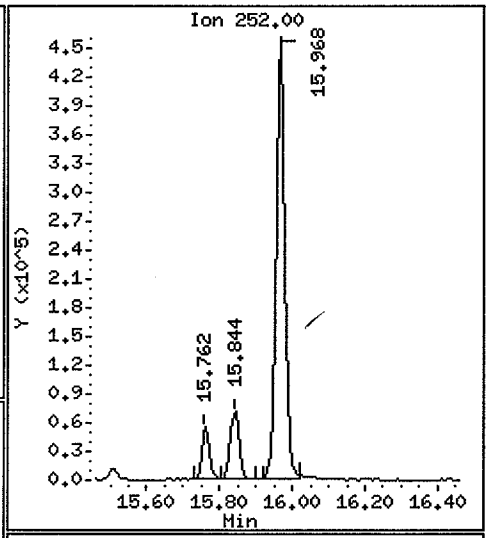
Concentration: 373.5 ug/kg

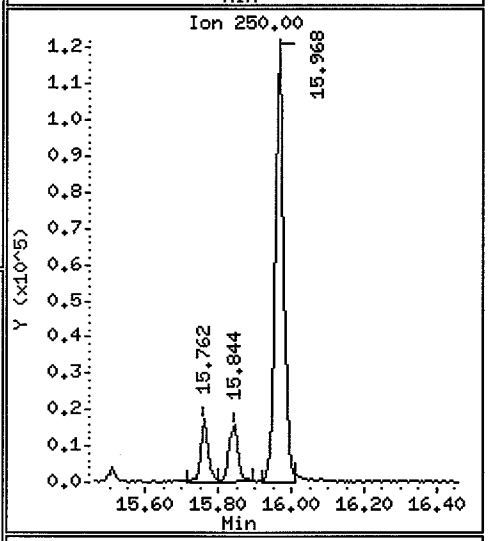


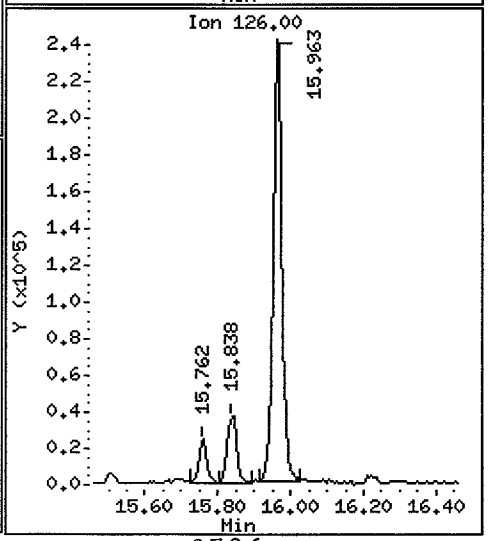












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-02-G
SAMPLE

Lab Sample ID: JT82C
LIMS ID: 06-15217
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 13:27
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 2.00
Percent Moisture: 37.3%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	9.9	48	
91-57-6	**2-Methylnaphthalene**	9.9	25	
90-12-0	**1-Methylnaphthalene**	9.9	15	
208-96-8	**Acenaphthylene**	9.9	36	
83-32-9	**Acenaphthene**	9.9	150	
86-73-7	**Fluorene**	9.9	76	
85-01-8	**Phenanthrene**	9.9	660	
120-12-7	**Anthracene**	9.9	120	
206-44-0	**Fluoranthene**	9.9	1,000	E
129-00-0	**Pyrene**	9.9	1,200	E
56-55-3	**Benzo(a)anthracene**	9.9	500	
218-01-9	**Chrysene**	9.9	680	
205-99-2	**Benzo(b)fluoranthene**	9.9	560	
207-08-9	**Benzo(k)fluoranthene**	9.9	520	
50-32-8	**Benzo(a)pyrene**	9.9	590	
193-39-5	**Indeno(1,2,3-cd)pyrene**	9.9	340	
53-70-3	**Dibenz(a,h)anthracene**	9.9	98	
191-24-2	**Benzo(g,h,i)perylene**	9.9	410	
198-55-0	**Perylene**	9.9	340	
92-52-4	Biphenyl	9.9	< 9.9	Y
581-42-0	**2,6-Dimethylnaphthalene**	9.9	52	
832-69-9	1-Methylphenanthrene	50	< 50	Y
192-97-2	**Benzo(e)pyrene**	9.9	390	
2245-38-7	**2,3,5-Trimethylnaphthalene**	9.9	140	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.1%
d14-Dibenzo(a,h)anthracen	67.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060831.b/jt82c.d
Lab Smp Id: JT82C Client Smp ID: T4-S3-02-G
Inj Date : 31-AUG-2006 13:27
Operator : VTS Inst ID: nt1.i
Smp Info : JT82C,2
Misc Info : 06-15217
Comment : 1ul Injection
Method : /chem3/nt1.i/20060831.b/simpna.m
Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 4
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	2.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	16.10000	Weight of sample extracted (g)
M	37.30000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.825	6.823	(1.000)	370295	2.00000	
	2 Naphthalene	128	6.849	6.847	(1.003)	91256	0.49407	48.94
$	3 2-Methylnaphthalene-d10	152	7.582	7.580	(1.111)	88827	0.93133	92.26
	4 2-Methylnaphthalene	142	7.623	7.621	(1.117)	27387	0.25038	24.80
	5 1-Methylnaphthalene	142	7.747	7.751	(1.135)	17115	0.14917	14.78
	7 Acenaphthylene	152	8.711	8.703	(0.980)	56078	0.35803	35.47
*	8 Acenaphthene-d10	164	8.888	8.886	(1.000)	188918	2.00000	
	9 Acenaphthene	153	8.924	8.921	(1.004)	137832	1.48587	147.2
	10 Dibenzofuran	168	9.113	9.111	(1.025)	30606	0.22400	22.19
	11 Fluorene	166	9.538	9.536	(1.073)	82322	0.77393	76.67
*	15 Phenanthrene-d10	188	10.703	10.694	(1.000)	253874	2.00000	
	16 Phenanthrene	178	10.732	10.724	(1.003)	862295	6.61728	655.5
	17 Anthracene	178	10.785	10.777	(1.008)	160310	1.23104	121.9
	19 Fluoranthene	202	12.239	12.213	(1.144)	1335391	10.0472	995.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.517	12.503	(0.893)	1518862	12.4414	1232
	22 Benzo(a)anthracene	228	13.994	13.980	(0.999)	580345	5.06907	502.2
*	23 Chrysene-d12	240	14.012	14.004	(1.000)	190120	2.00000	
	24 Chrysene	228	14.048	14.034	(1.003)	720977	6.82755	676.3
	28 Benzo(b)fluoranthene	252	15.377	15.352	(0.964)	614588	5.60512	555.3
	29 Benzo(k)fluoranthene	252	15.401	15.387	(0.966)	607714	5.19881	515.0(H)
	30 Benzo(a)pyrene	252	15.862	15.836	(0.995)	640174	5.99184	593.6
*	31 Perylene-d12	264	15.945	15.925	(1.000)	194281	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.877	17.834	(1.121)	423413	3.44611	341.4
$	32 Dibenz(a,h)anthrancene-d14	292	17.795	17.763	(1.116)	75103	1.01012	100.1
	34 Dibenz(a,h)anthracene	278	17.854	17.828	(1.120)	99531	0.99160	98.23
	35 Benzo(g,h,i)perylene	276	18.445	18.401	(1.157)	423373	4.14527	410.6
	48 Biphenyl	154	8.155	8.159	(0.918)	12156	0.10415	10.32(M)
	49 2,6-Dimethylnaphthalene	156	8.350	8.348	(0.939)	48993	0.53293	52.79
	50 2,3,5-Trimethylnaphthalene	170	9.373	9.371	(1.055)	103596	1.37577	136.3
	51 1-Methylphenanthrene	192	11.512	11.492	(0.822)	39035	0.50159	49.69(M)
	52 Benzo(e)pyrene	252	15.779	15.759	(0.990)	465158	3.93321	389.6
	53 Perylene	252	15.986	15.960	(1.003)	386391	3.47969	344.7

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

VOS
9-1-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82c.d
Lab Smp Id: JT82C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15217

Calibration Date: 31-AUG-2006
Calibration Time: 11:36
Client Smp ID: T4-S3-02-G
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	330618	165309	661236	370295	12.00
8 Acenaphthene-d10	168464	84232	336928	188918	12.14
15 Phenanthrene-d10	226331	113166	452662	253874	12.17
23 Chrysene-d12	170894	85447	341788	190120	11.25
31 Perylene-d12	178548	89274	357096	194281	8.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.03
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.02
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.08
23 Chrysene-d12	14.00	13.50	14.50	14.01	0.06
31 Perylene-d12	15.92	15.42	16.42	15.94	0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

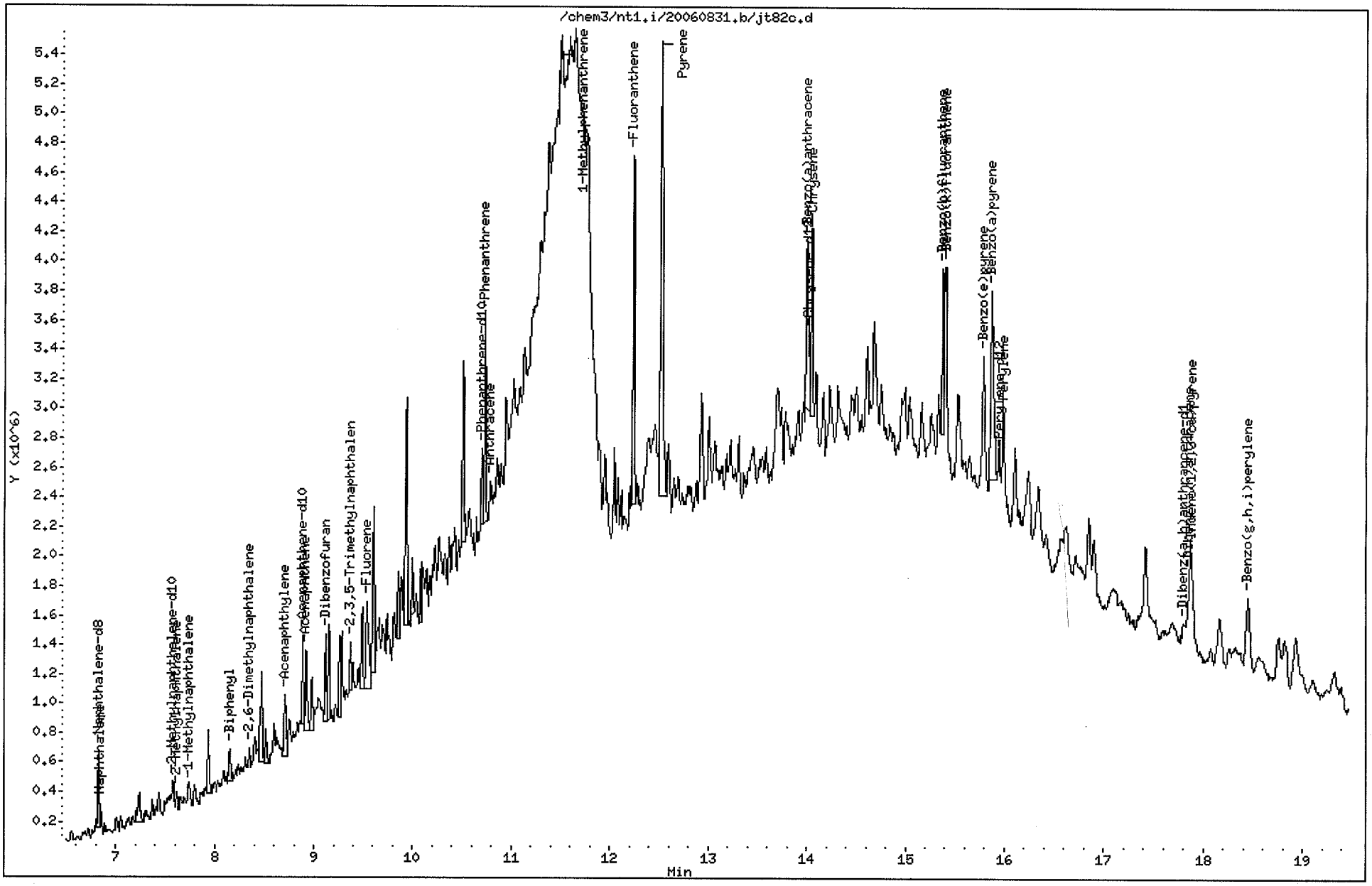
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82C
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15217

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-G
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.6	92.26	62.09	32-97
$ 32 Dibenz(a,h)anthran	148.6	100.1	67.34	21-105

Data File: /chem3/nt1.i/20060831.b/jt82c.d
Date : 31-AUG-2006 13:27
Client ID: T4-S3-02-G
Sample Info: JT82C,2
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0402

Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

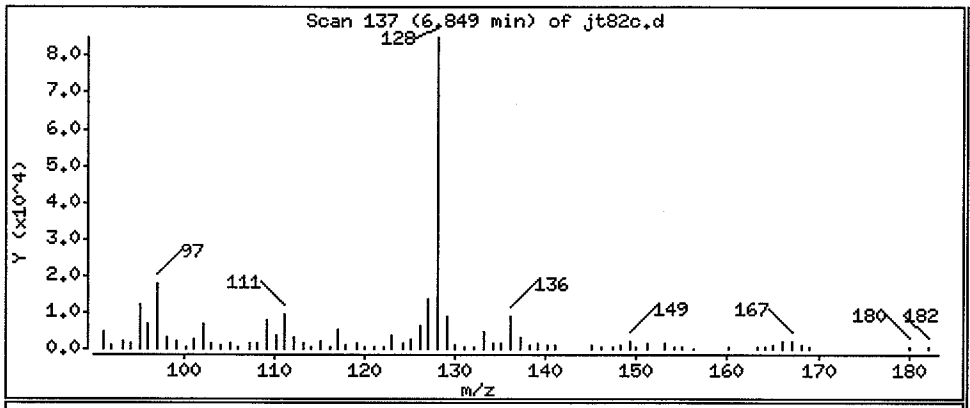
Operator: VTS

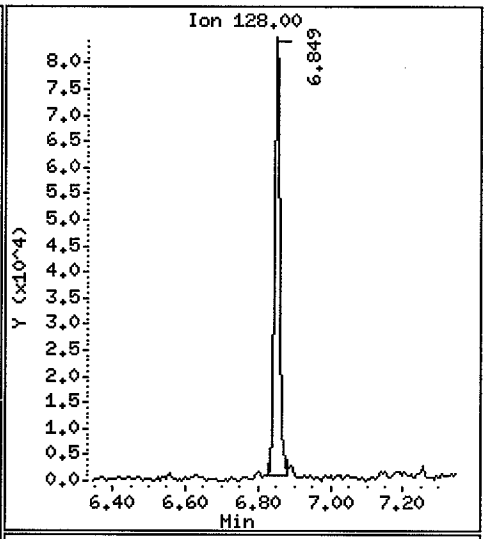
Column phase: ZB-5

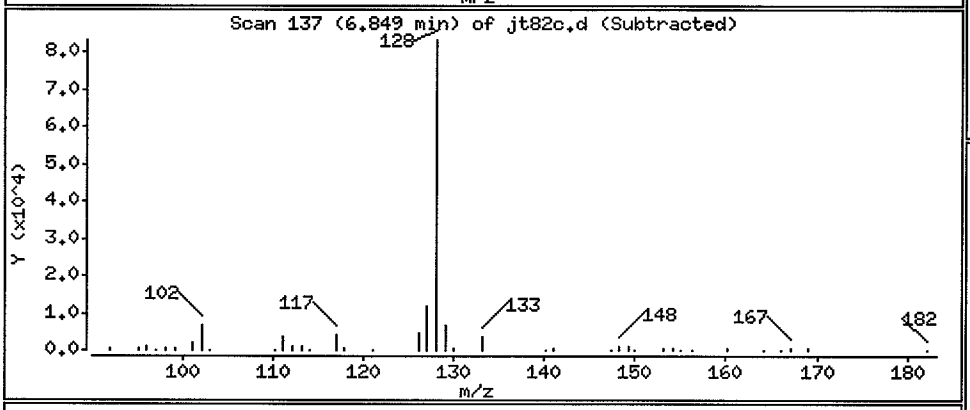
Column diameter: 0.25

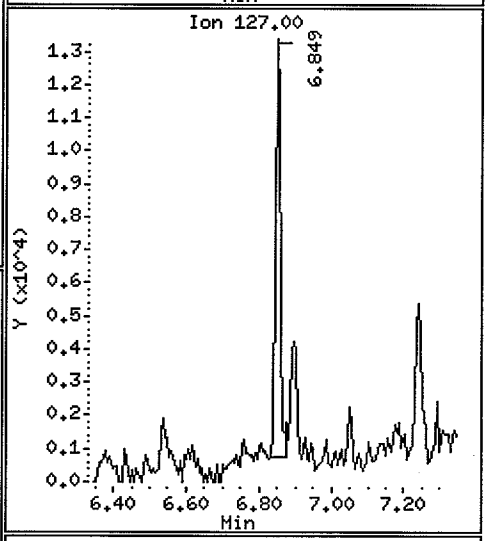
2 Naphthalene

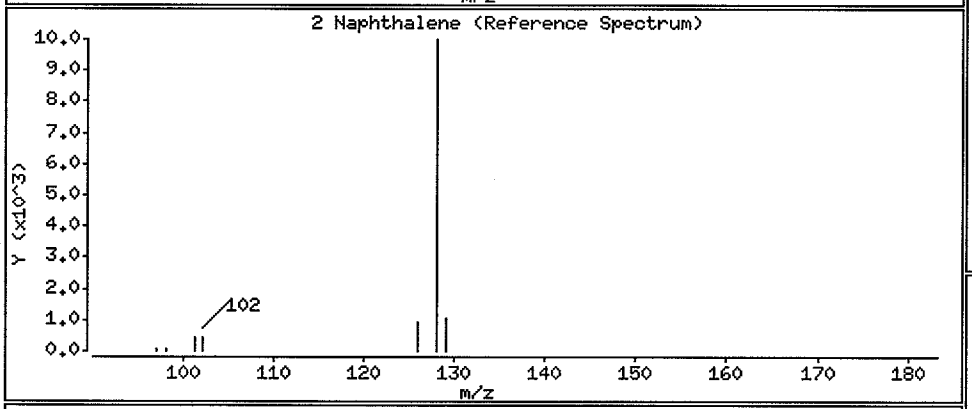
Concentration: 48.94 ug/kg

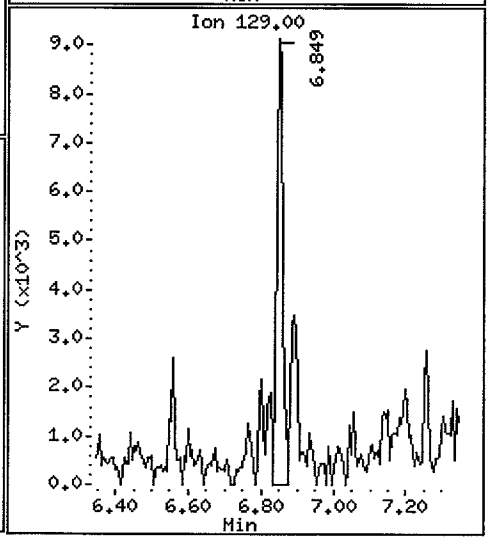


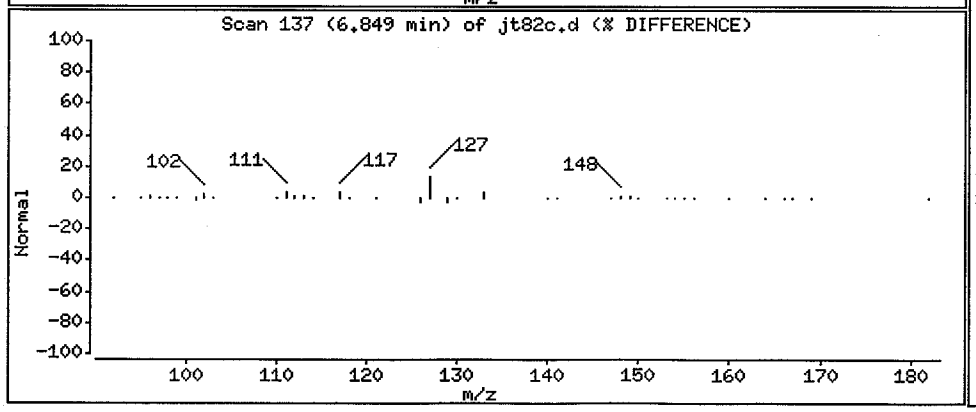












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

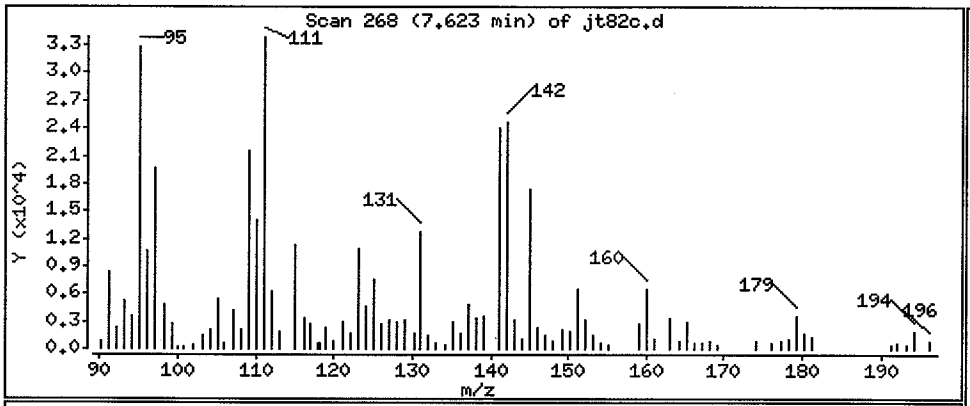
Operator: VTS

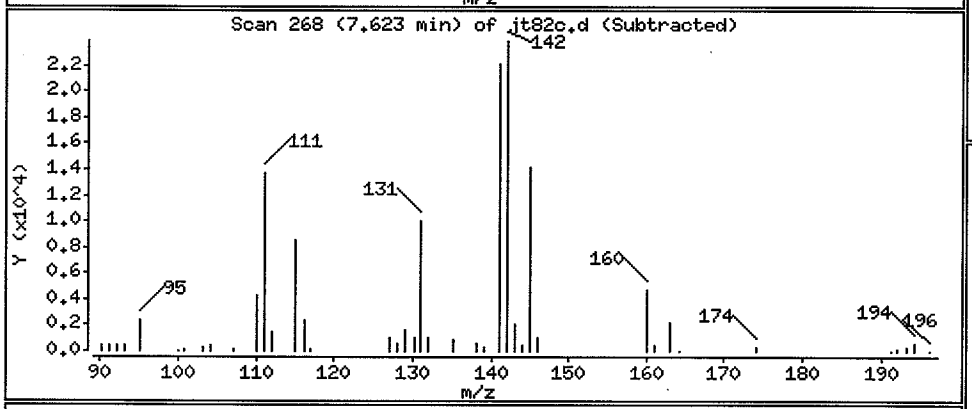
Column phase: ZB-5

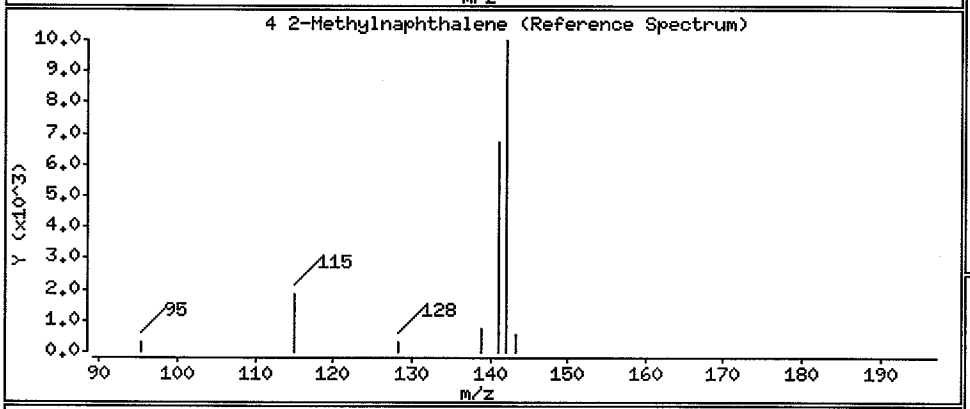
Column diameter: 0.25

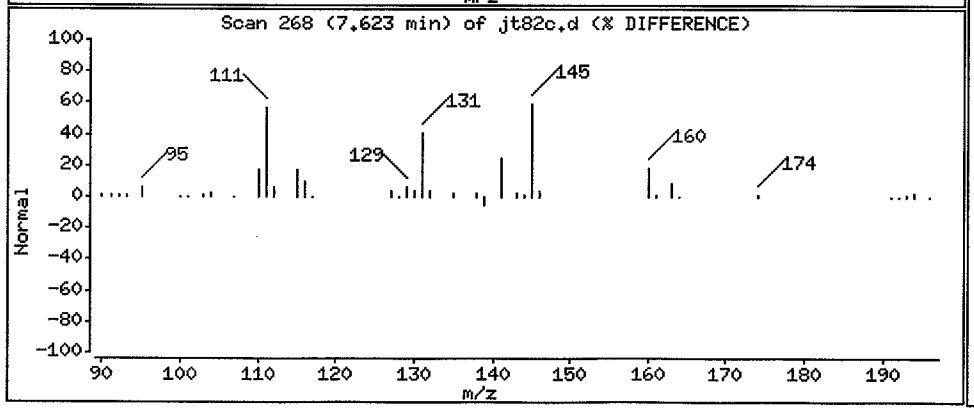
4 2-Methylnaphthalene

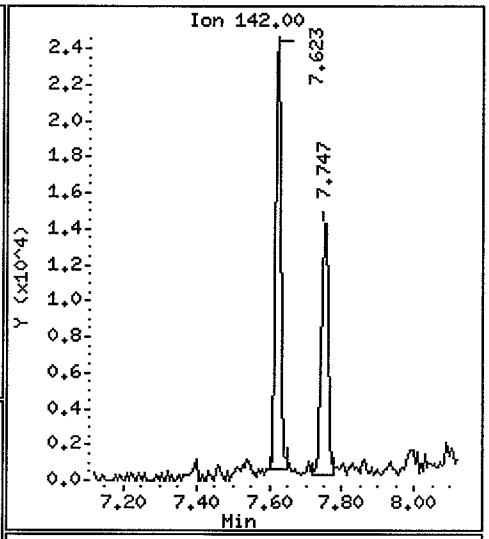
Concentration: 24.80 ug/kg

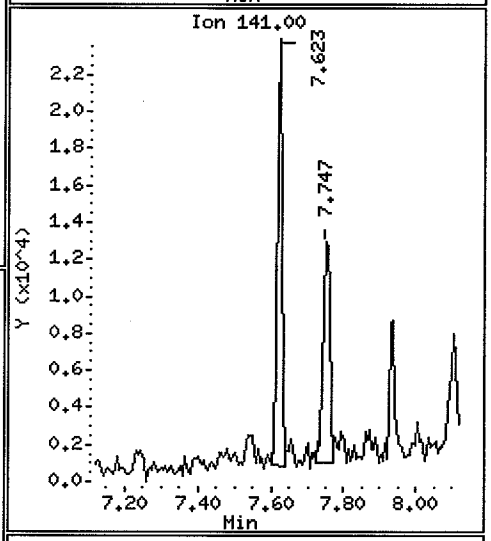


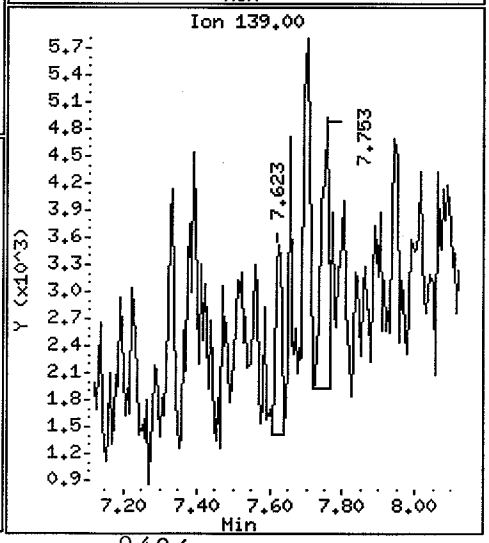












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

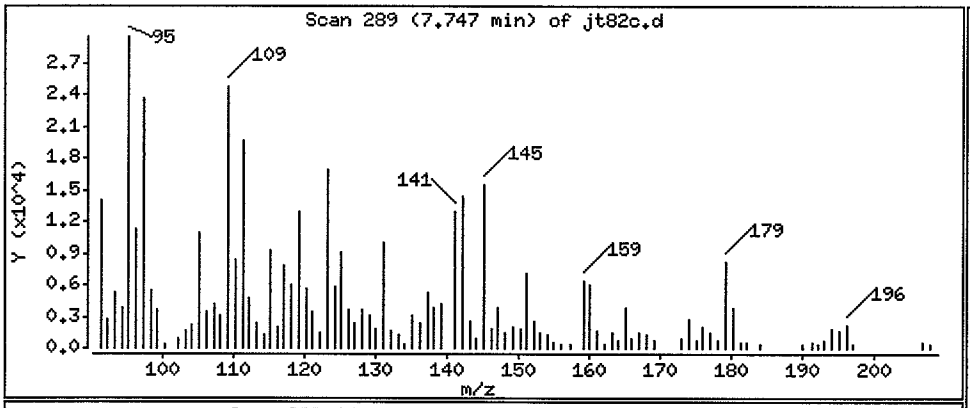
Operator: VTS

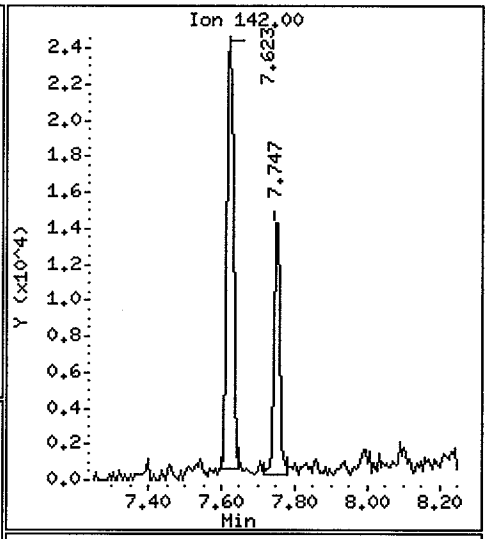
Column phase: ZB-5

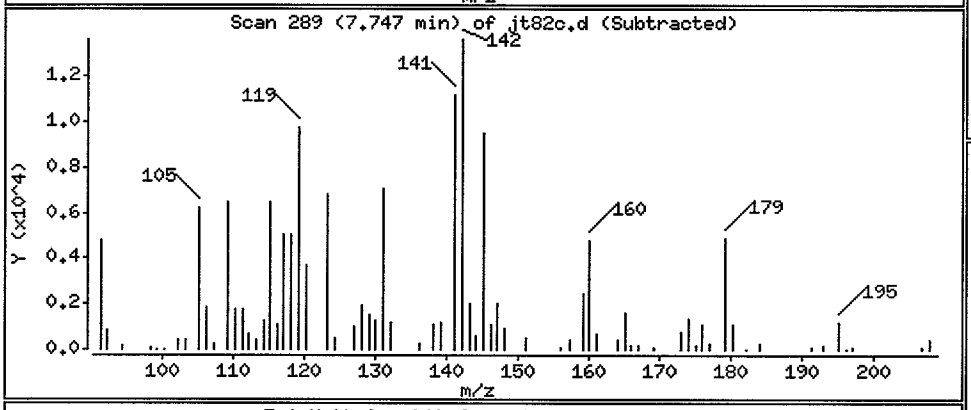
Column diameter: 0.25

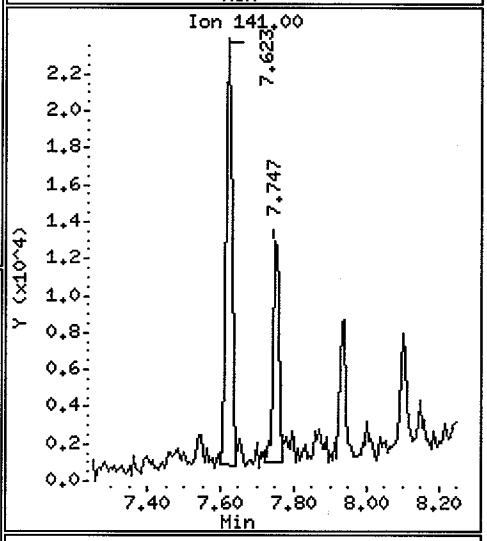
5 1-Methylnaphthalene

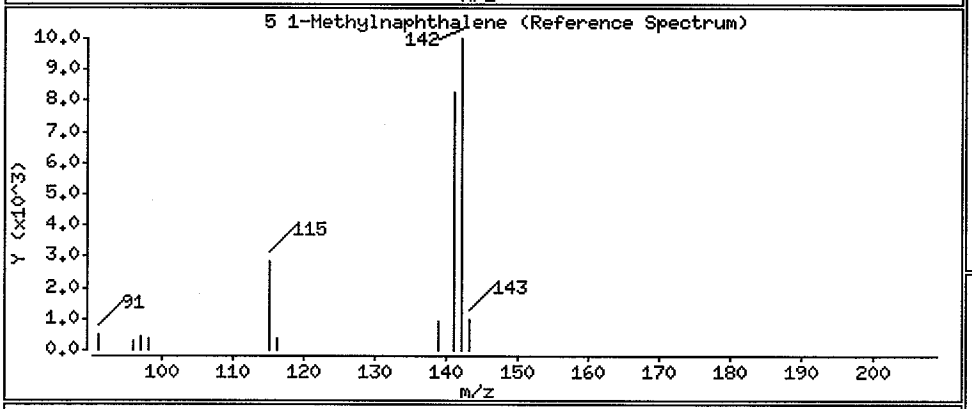
Concentration: 14.78 ug/kg

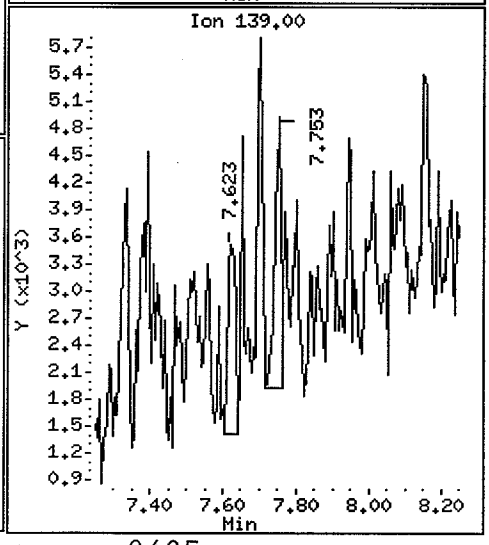


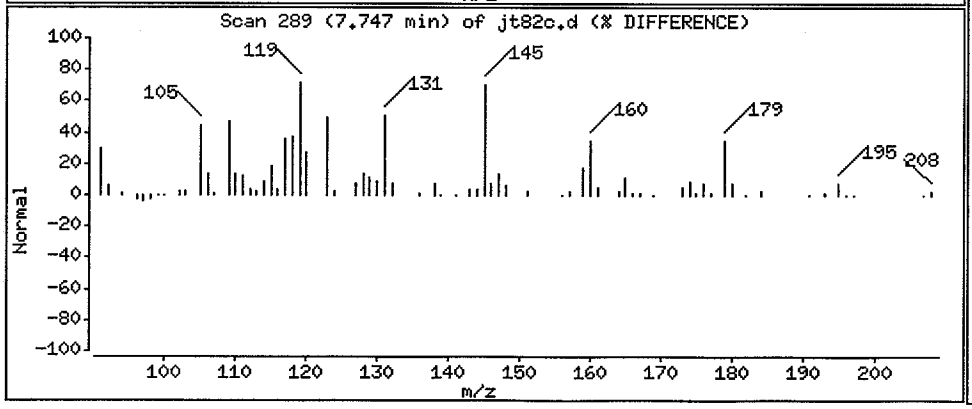












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

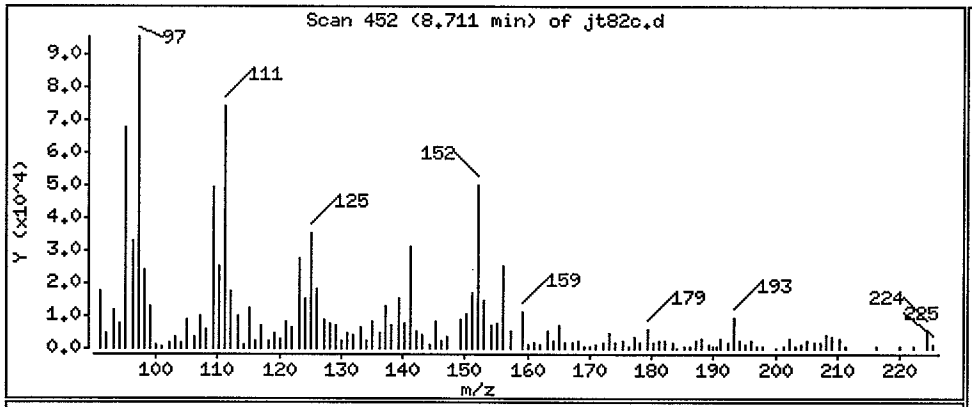
Operator: VTS

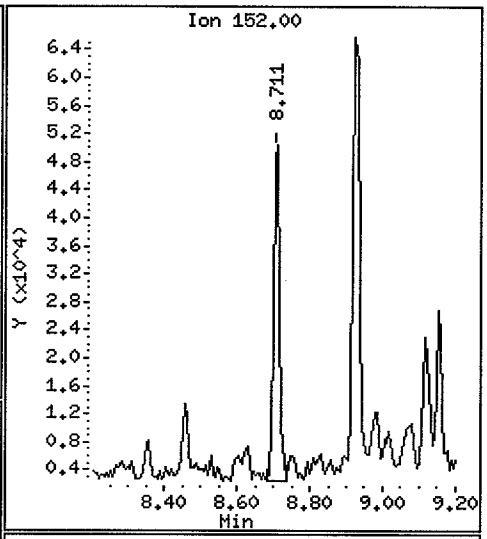
Column phase: ZB-5

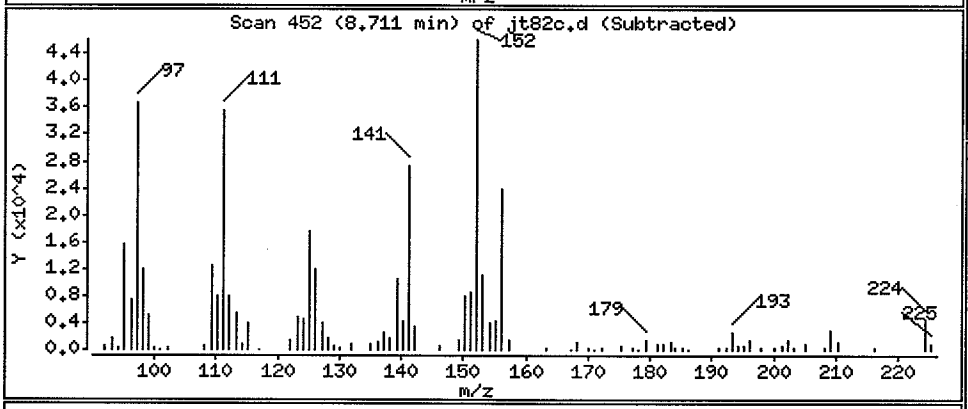
Column diameter: 0.25

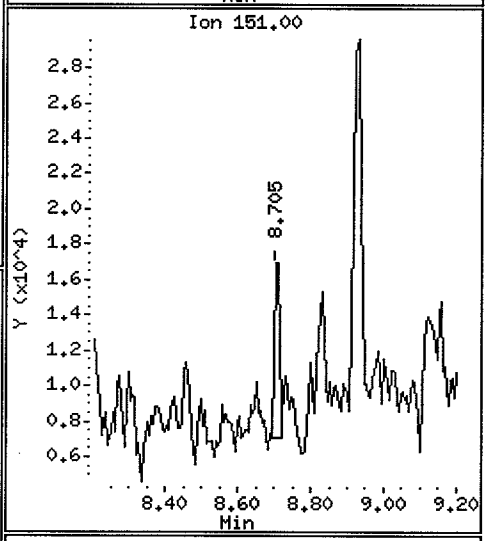
7 Acenaphthylene

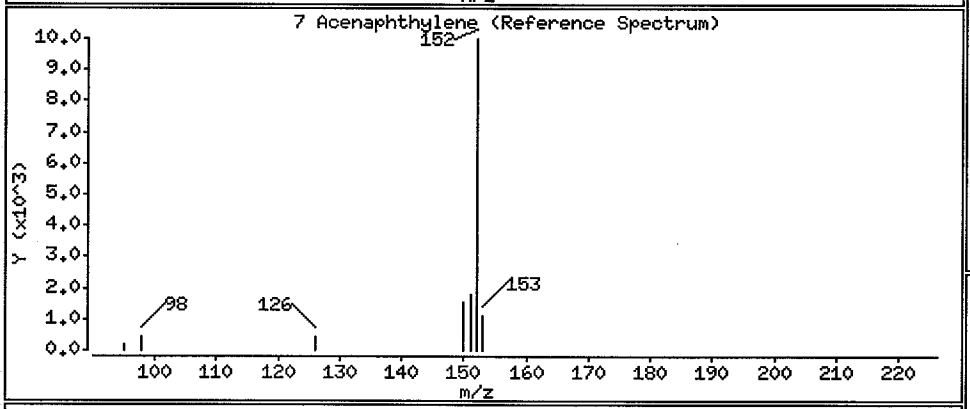
Concentration: 35.47 ug/kg

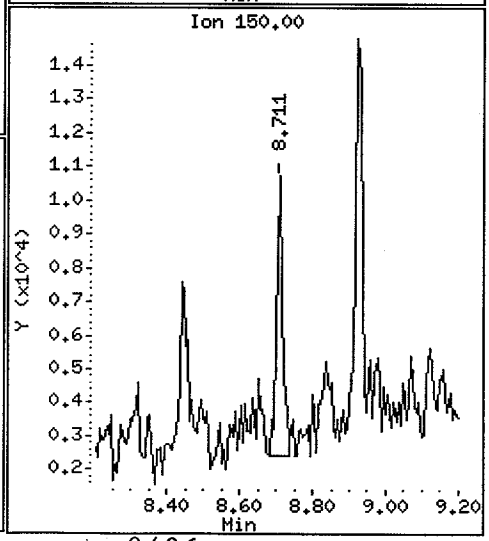


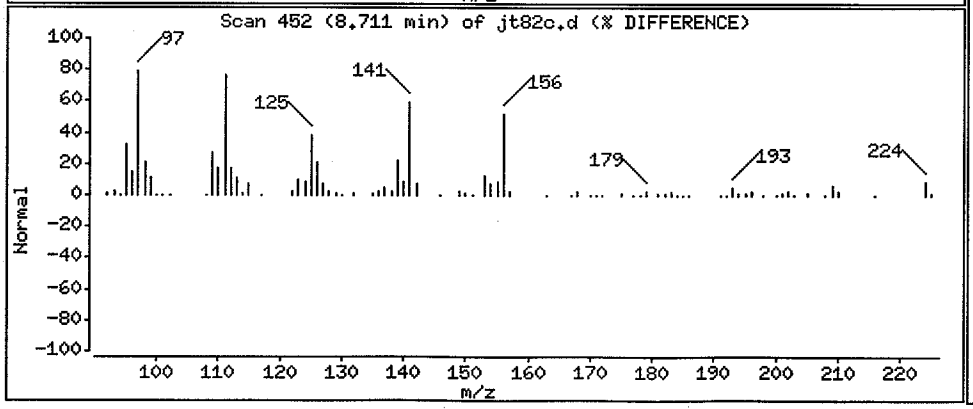












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

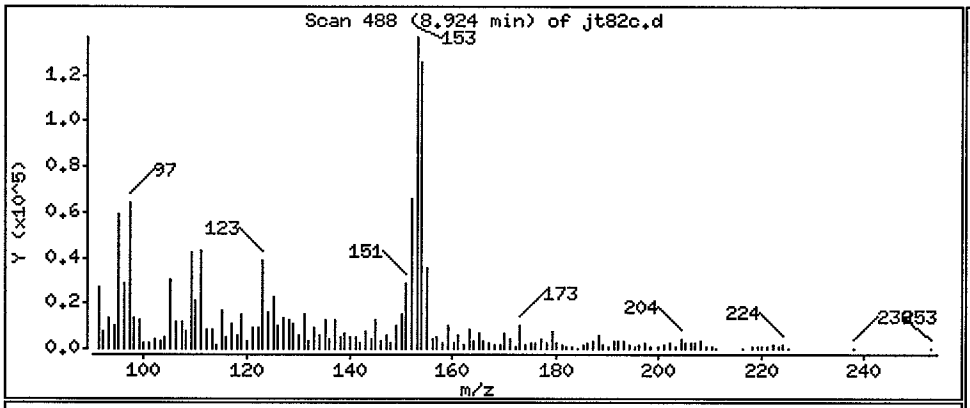
Operator: VTS

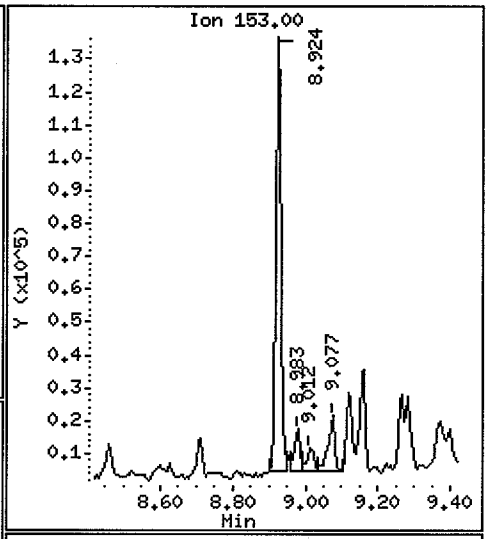
Column phase: ZB-5

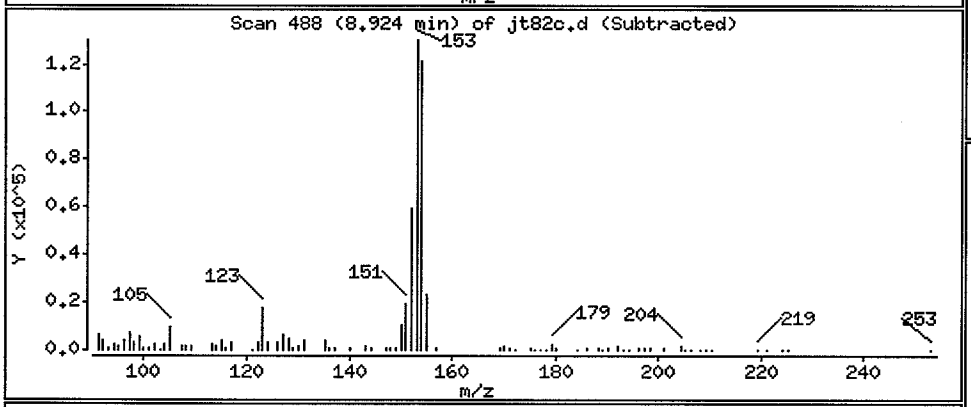
Column diameter: 0.25

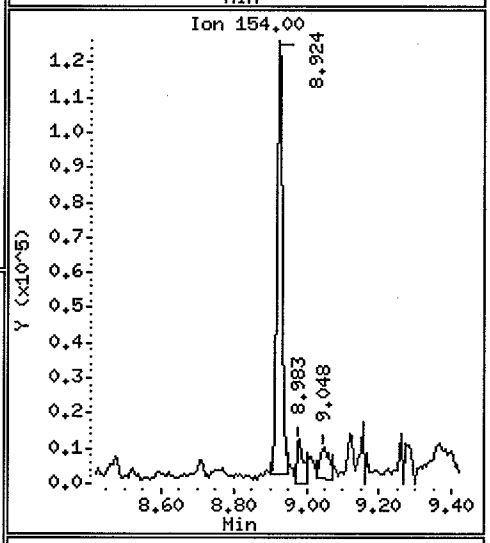
9 Acenaphthene

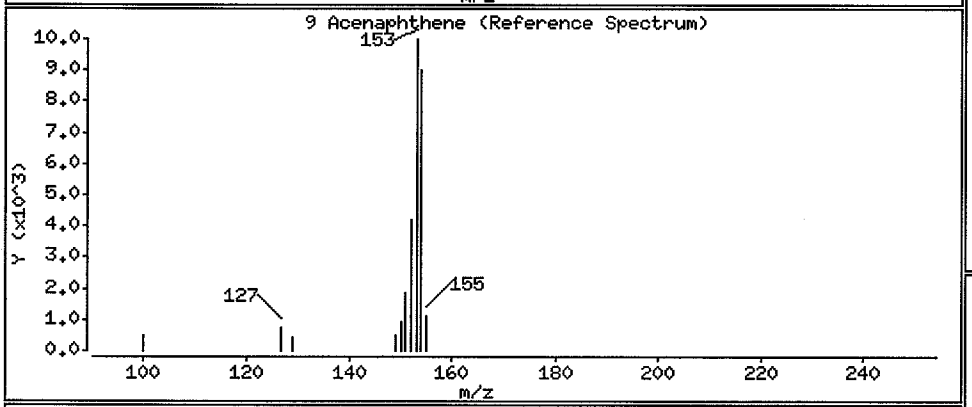
Concentration: 147.2 ug/kg

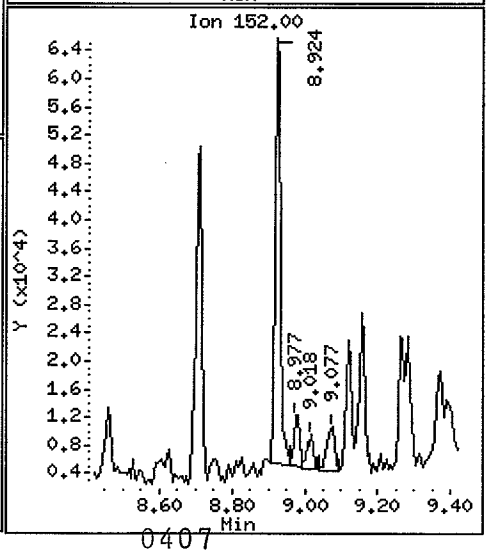


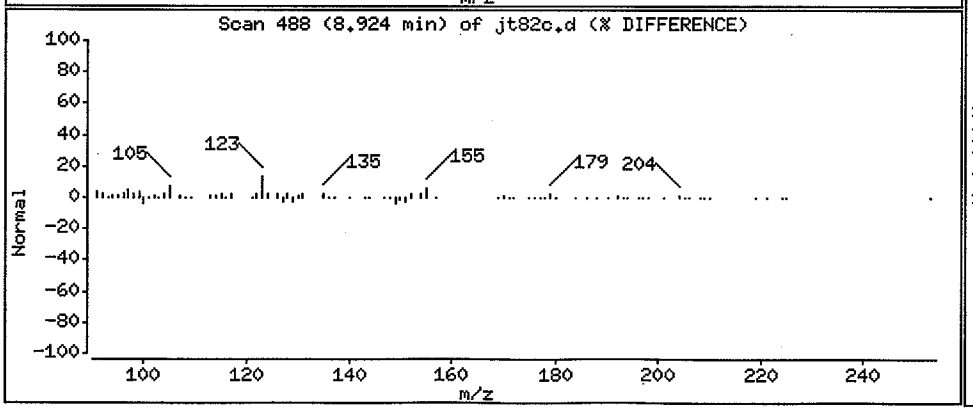












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

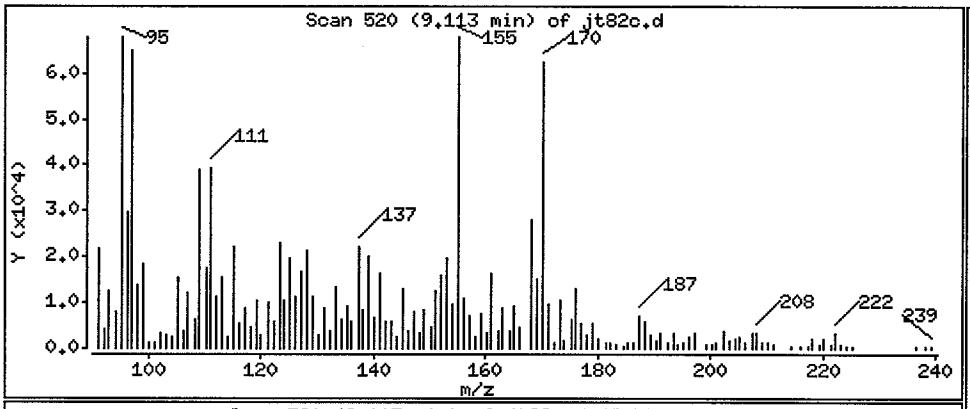
Operator: VTS

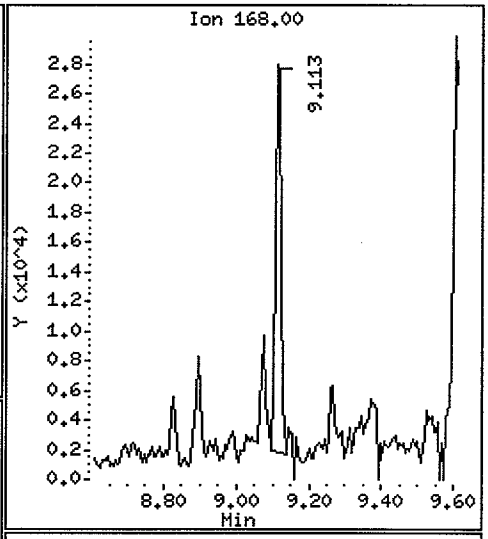
Column phase: ZB-5

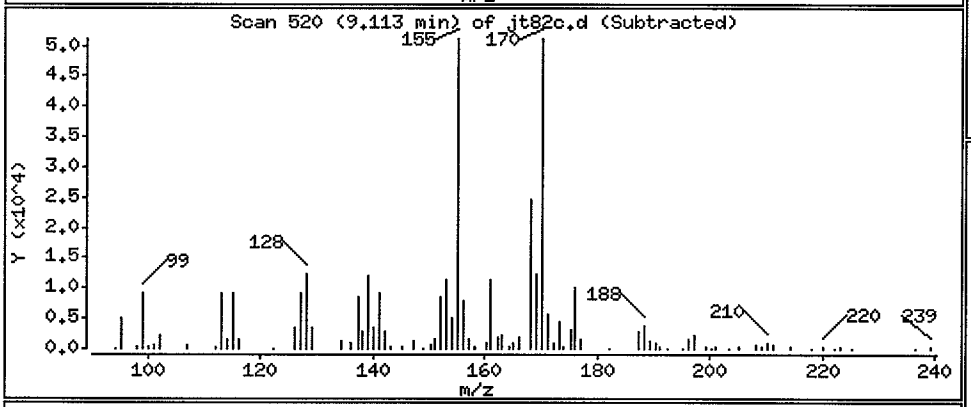
Column diameter: 0.25

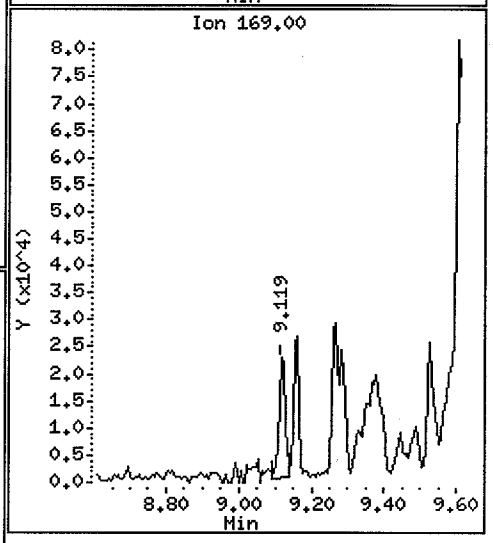
10 Dibenzofuran

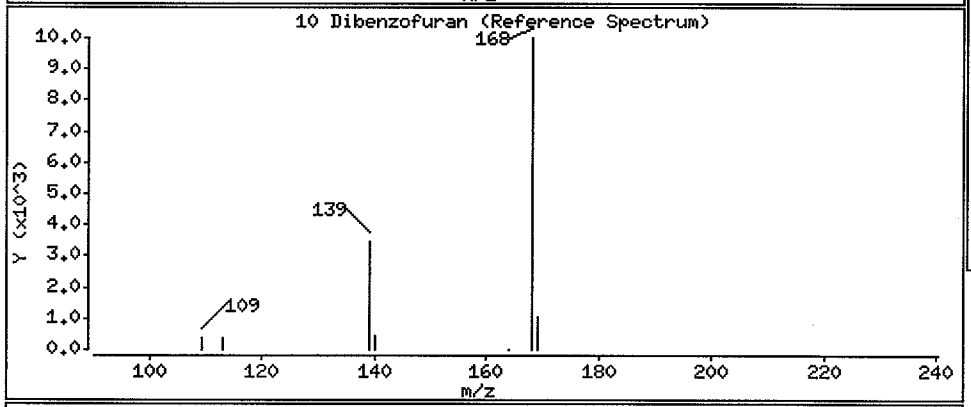
Concentration: 22.19 ug/kg

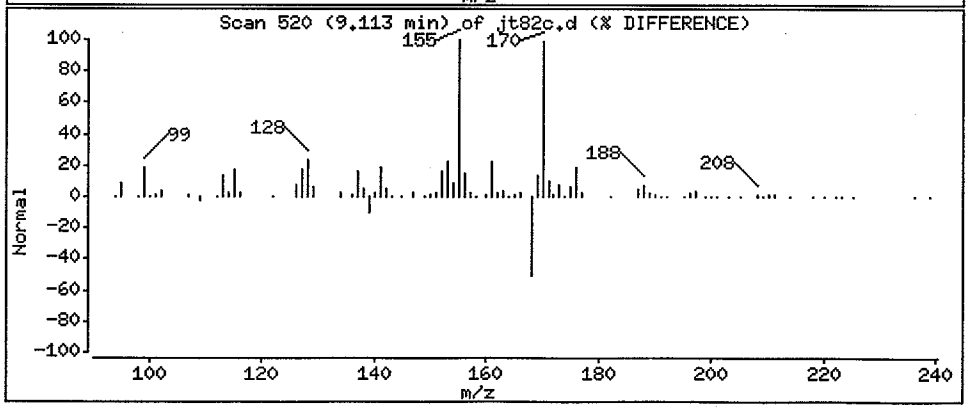












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

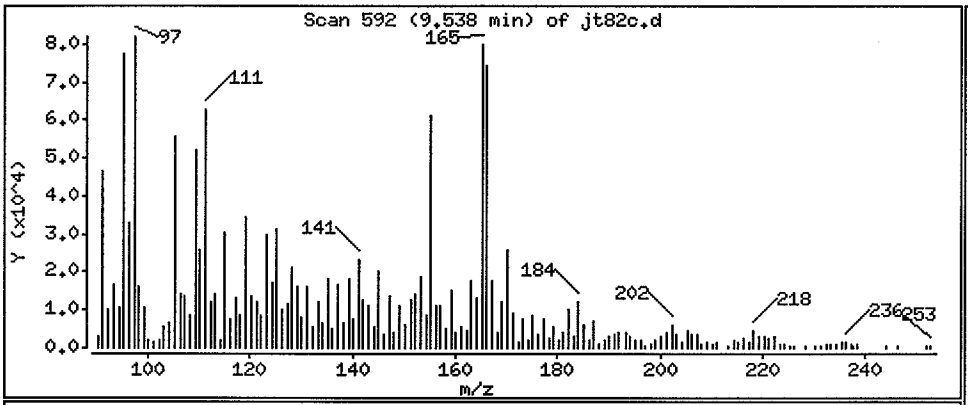
Operator: VTS

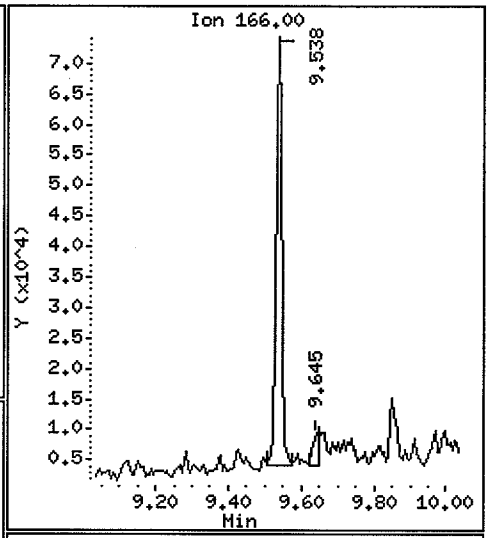
Column phase: ZB-5

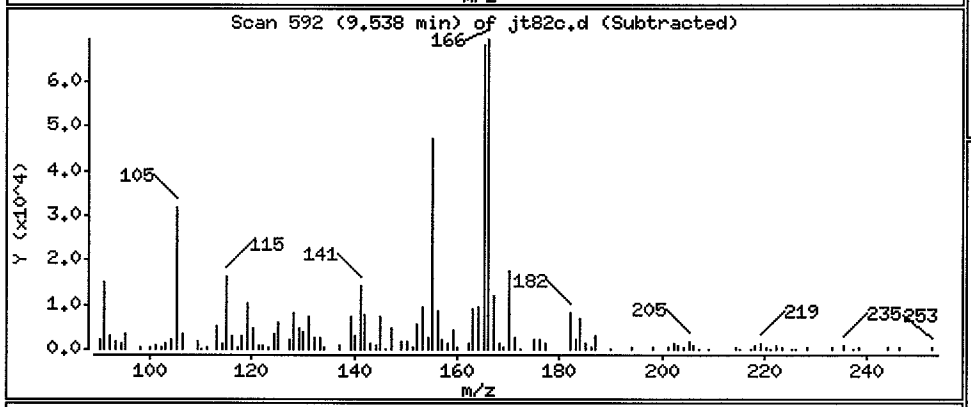
Column diameter: 0.25

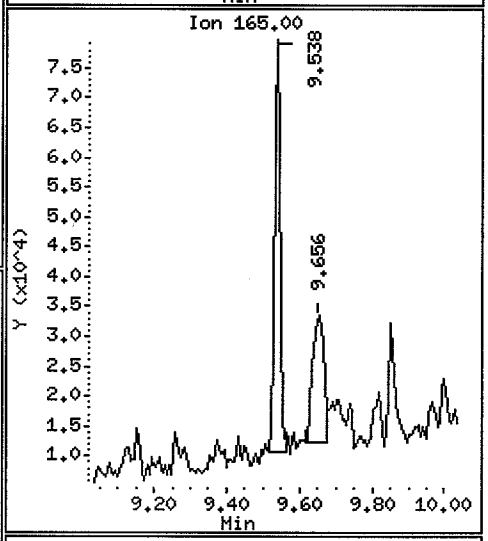
11 Fluorene

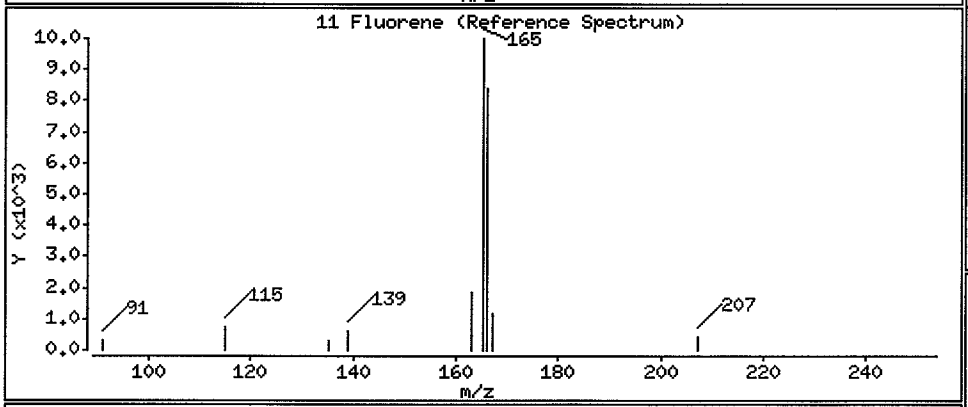
Concentration: 76.67 ug/kg

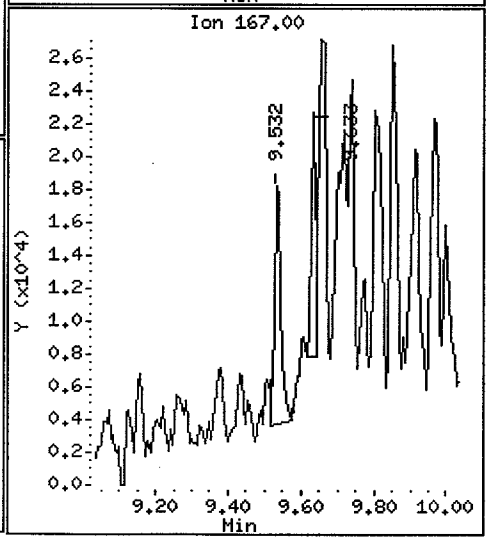


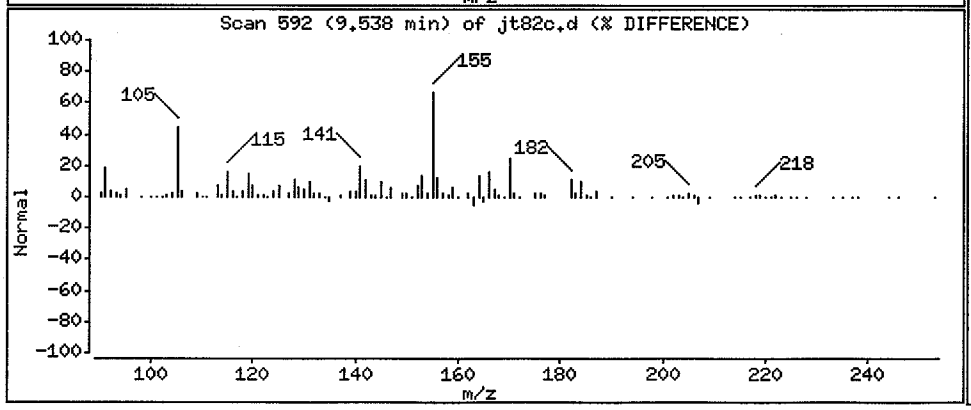












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

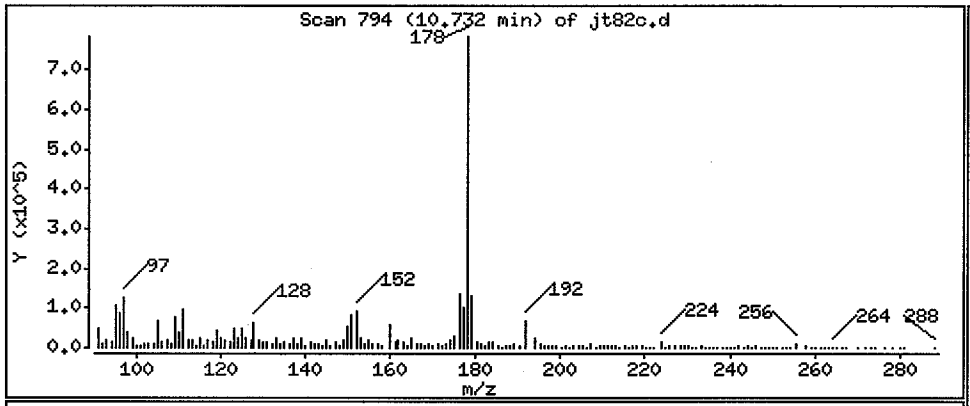
Operator: VTS

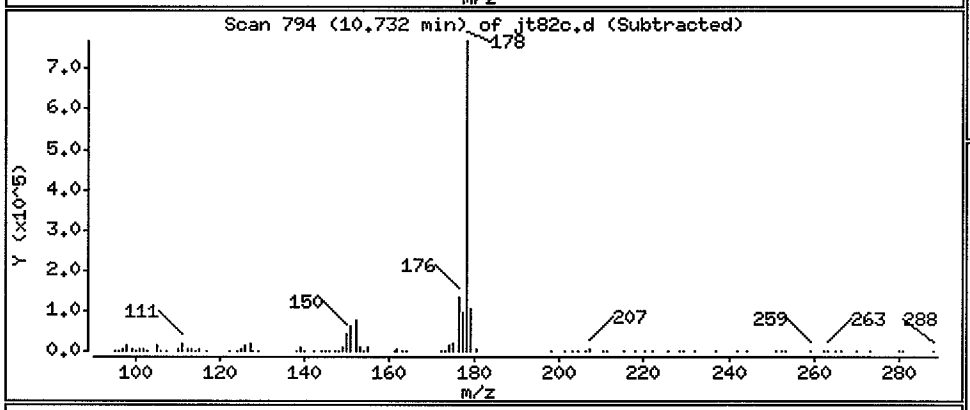
Column phase: ZB-5

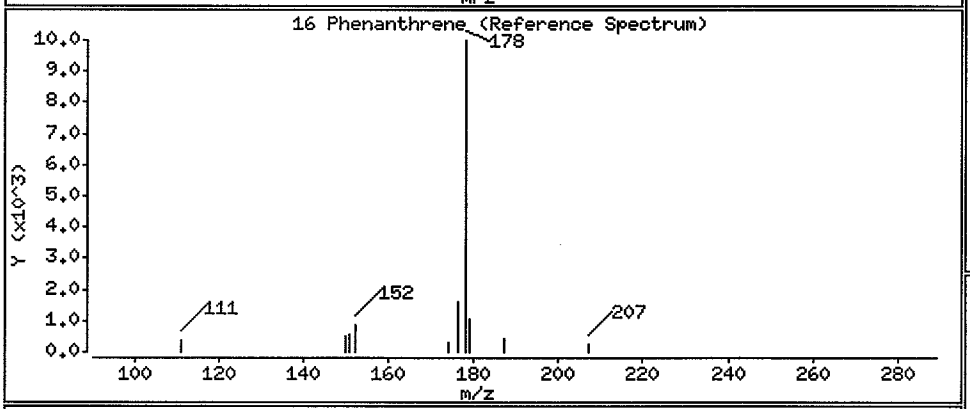
Column diameter: 0.25

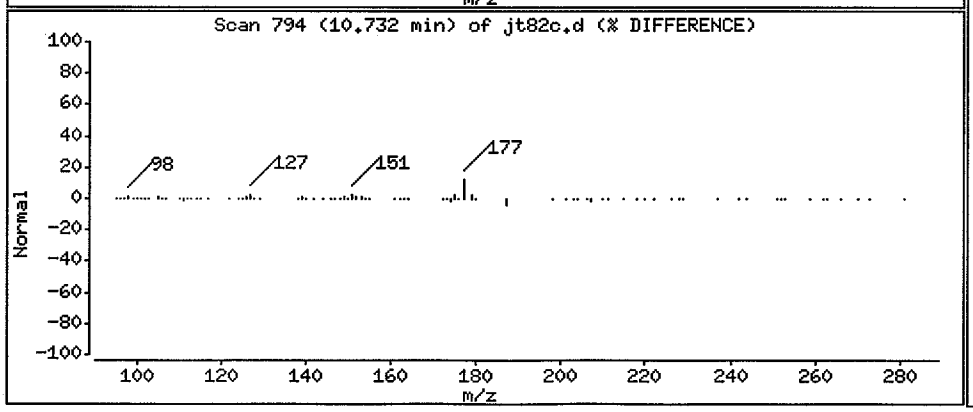
16 Phenanthrene

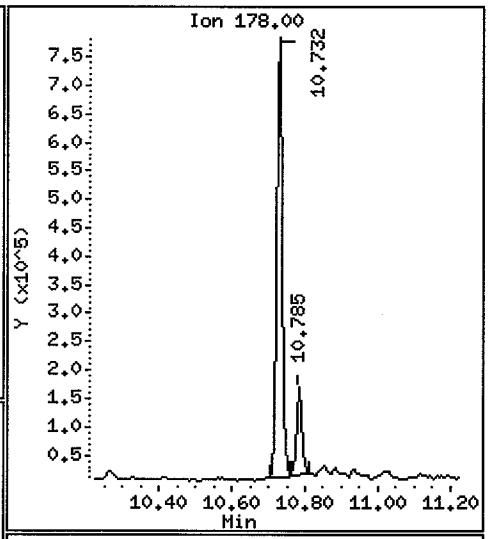
Concentration: 655.5 ug/kg

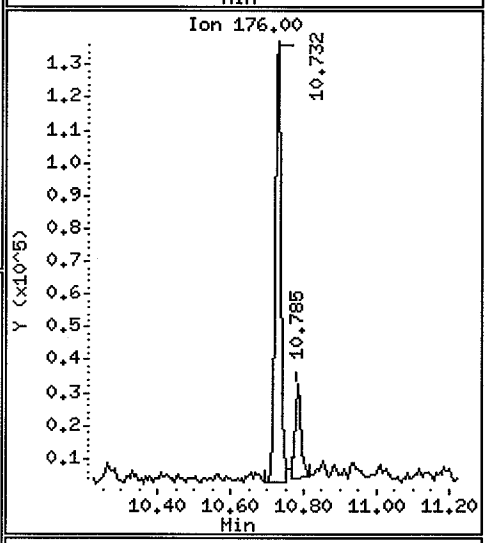


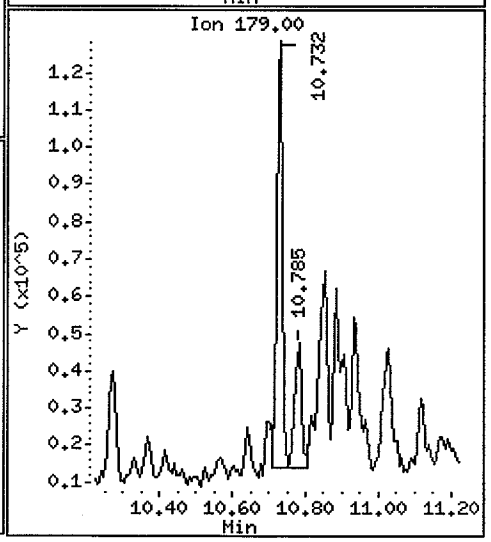












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

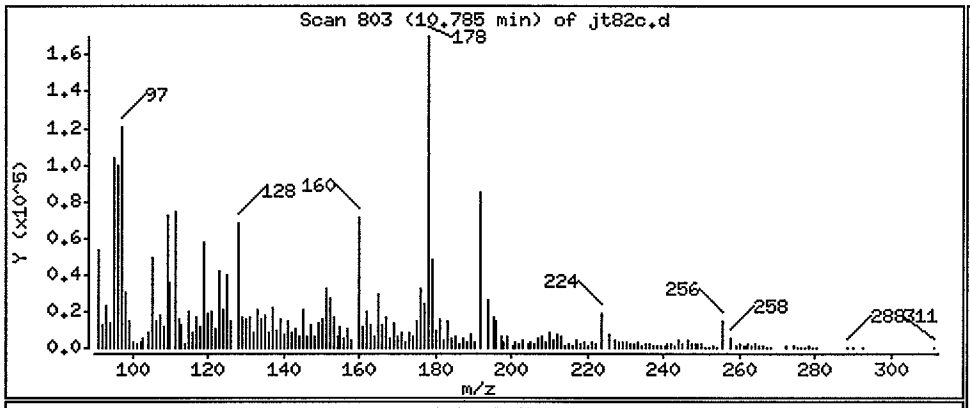
Operator: VTS

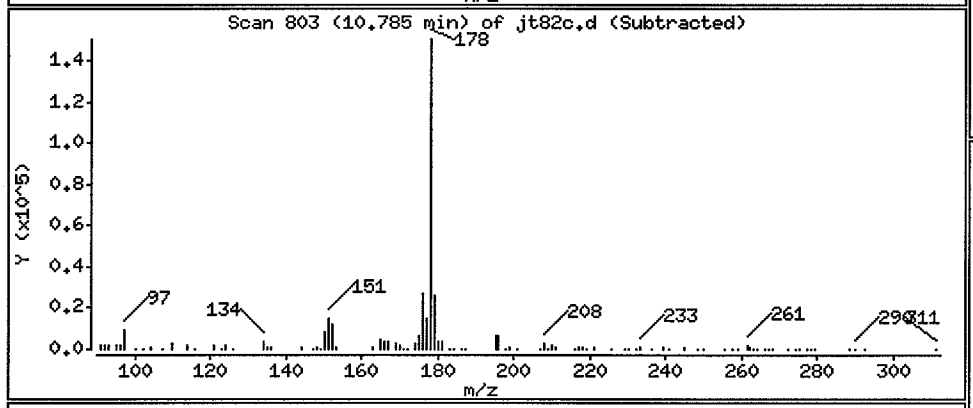
Column phase: ZB-5

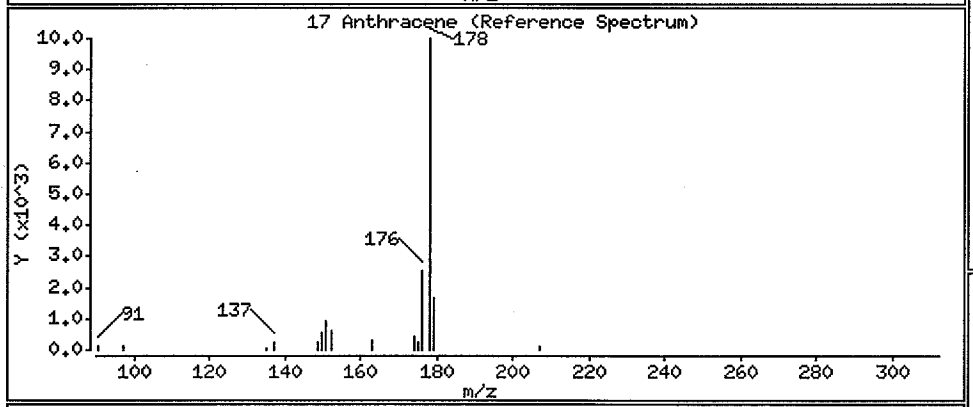
Column diameter: 0.25

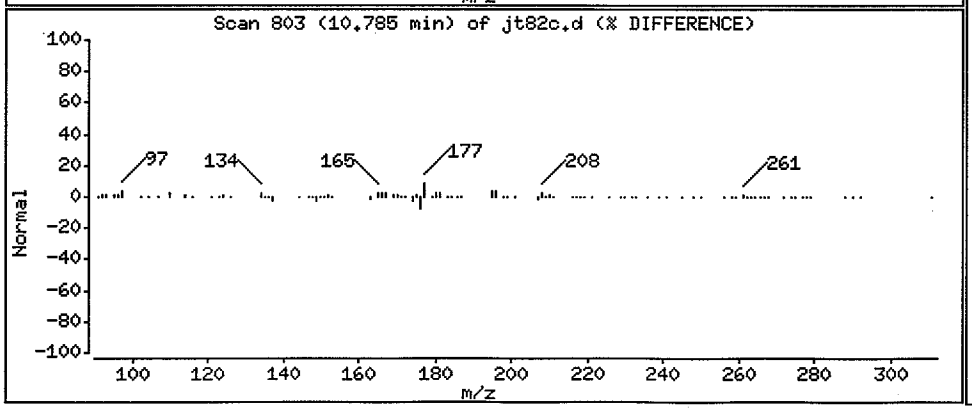
17 Anthracene

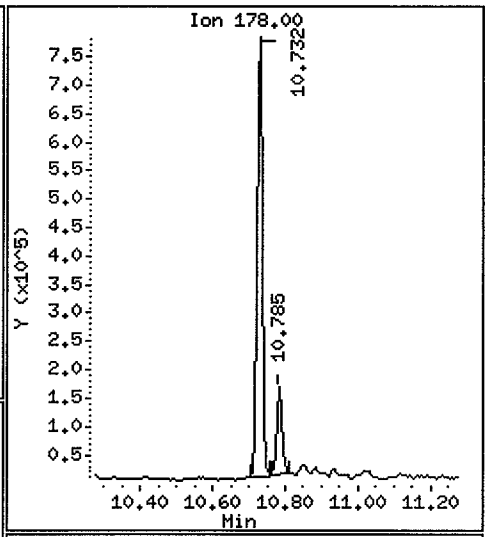
Concentration: 121.9 ug/kg

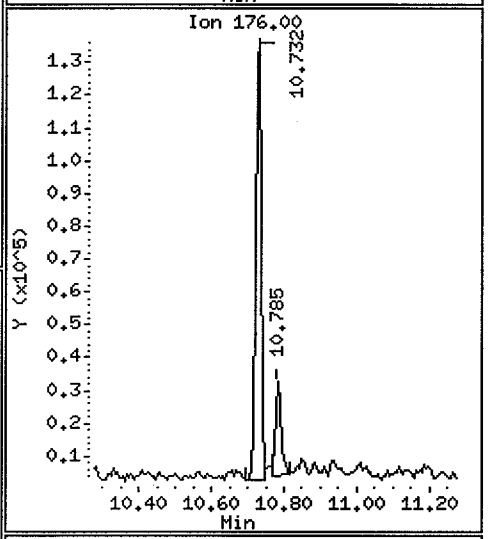


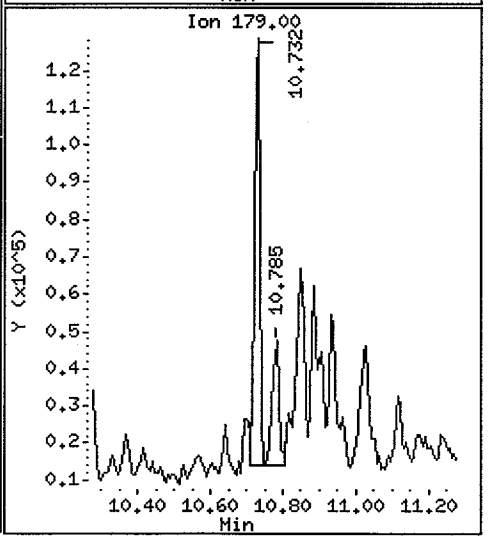












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

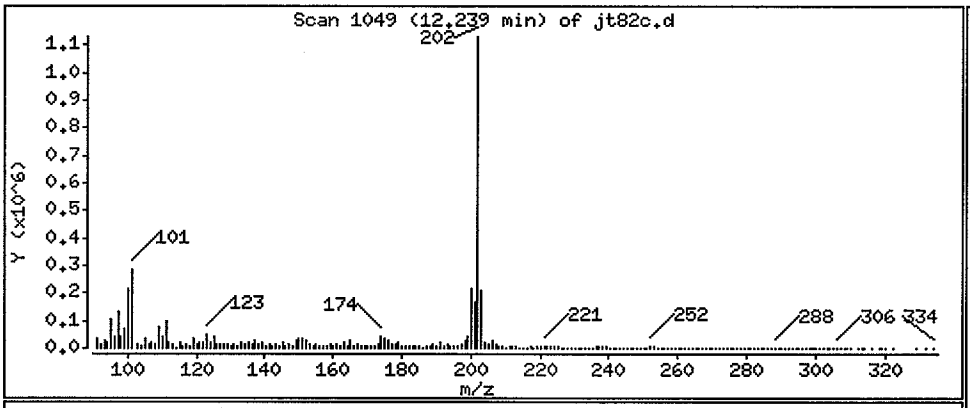
Operator: VTS

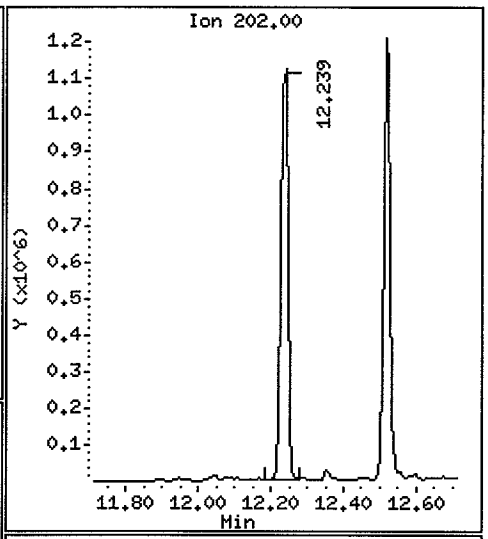
Column phase: ZB-5

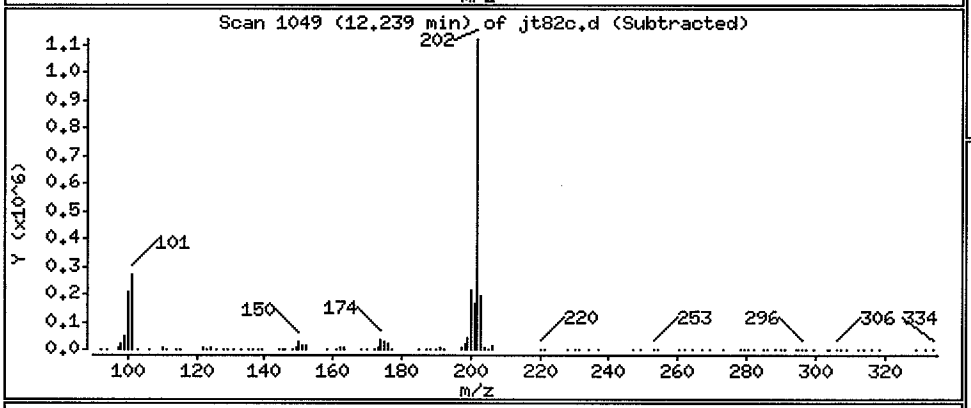
Column diameter: 0.25

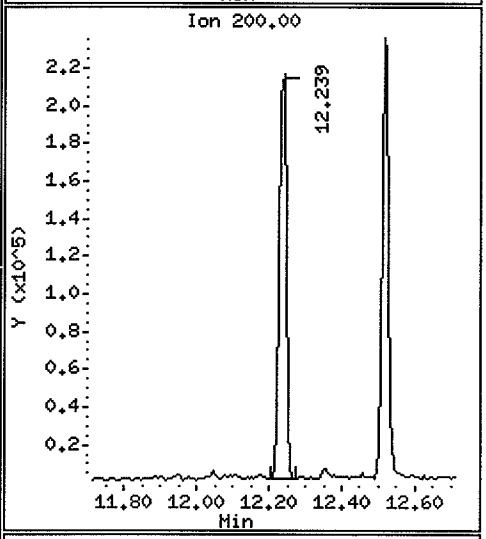
19 Fluoranthene

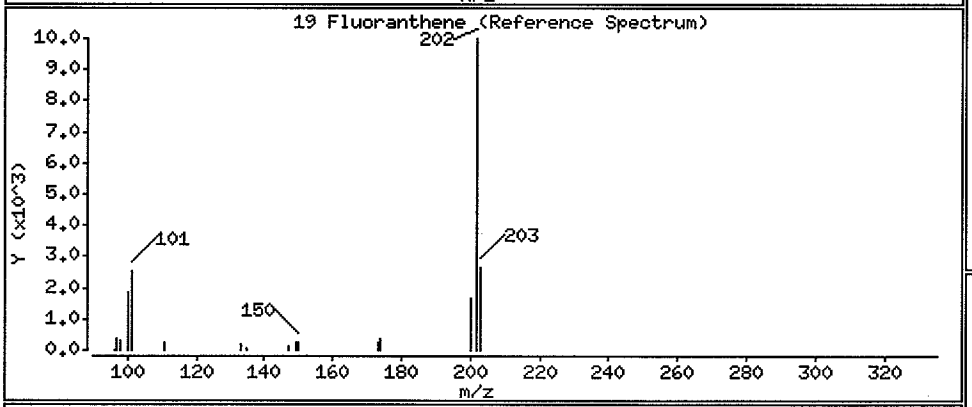
Concentration: 995.3 ug/kg

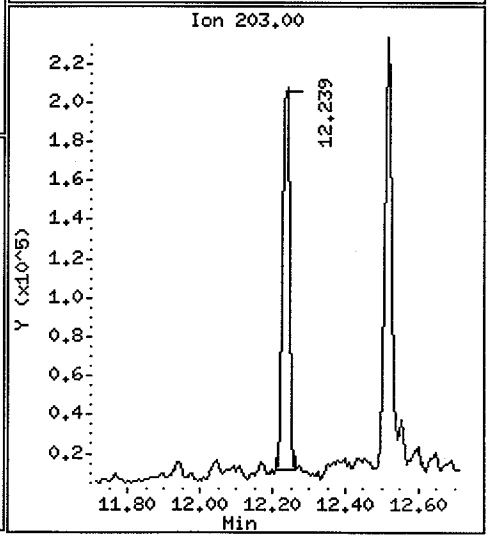


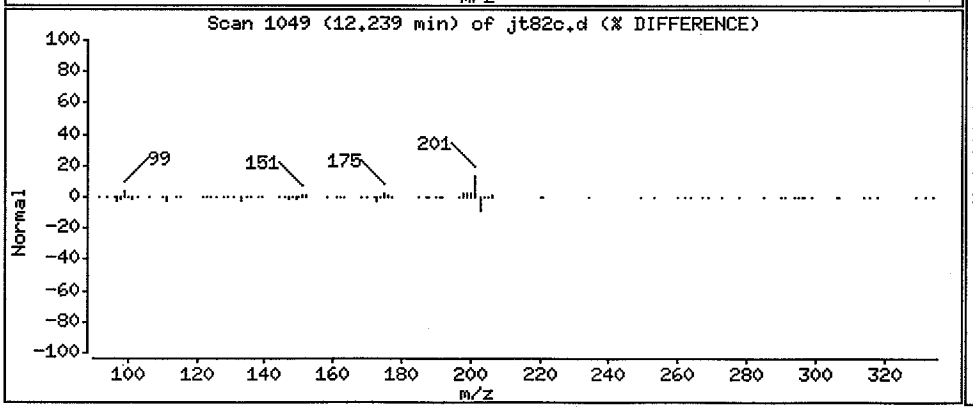












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

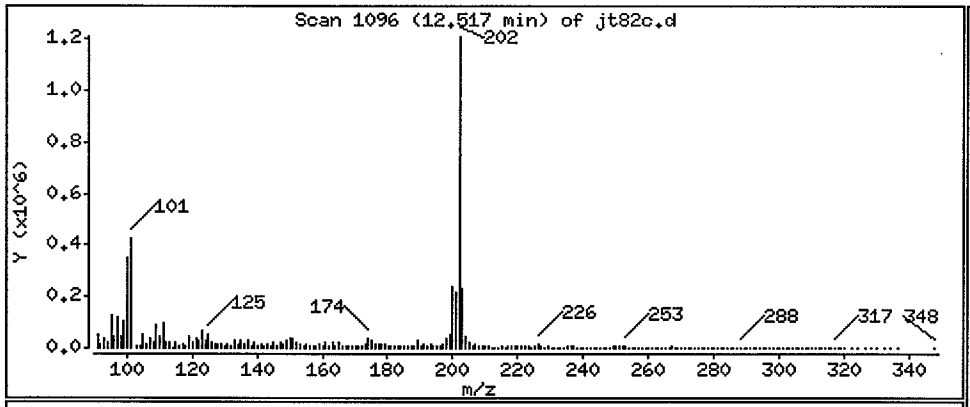
Operator: VTS

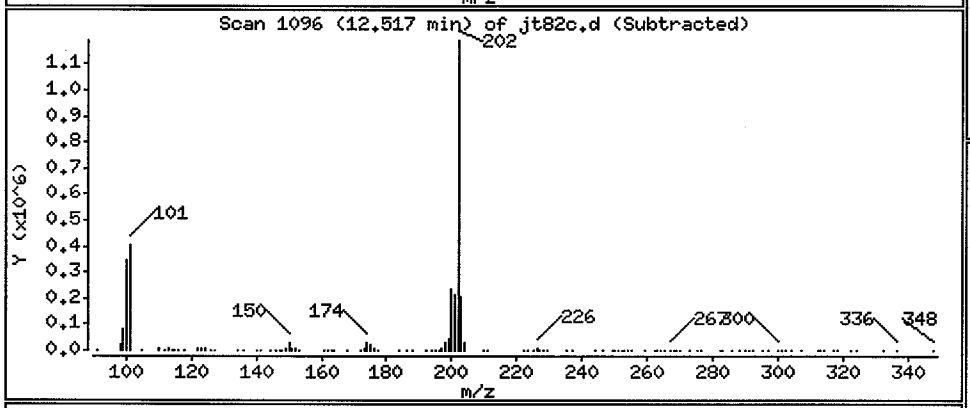
Column phase: ZB-5

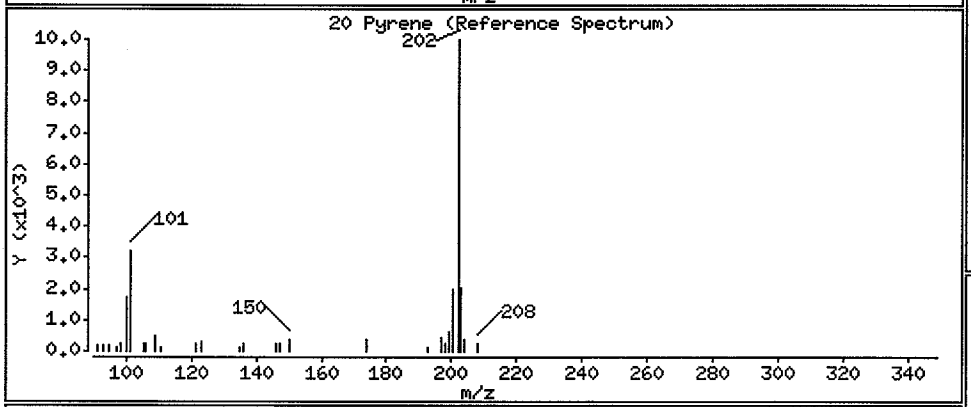
Column diameter: 0.25

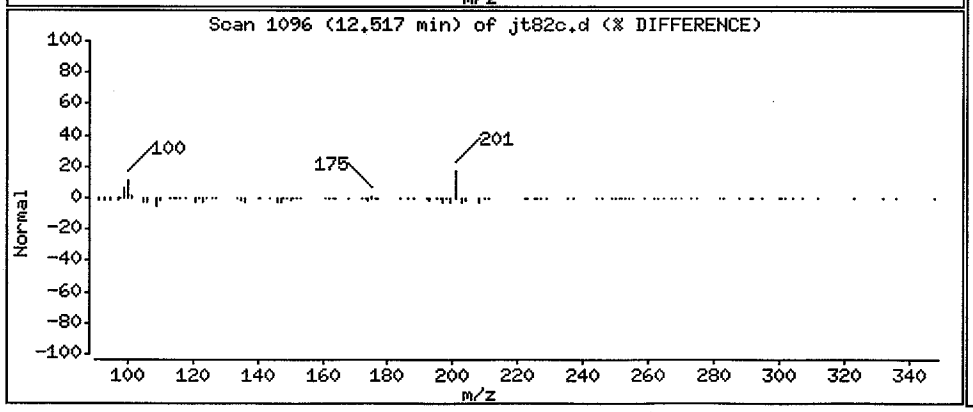
20 Pyrene

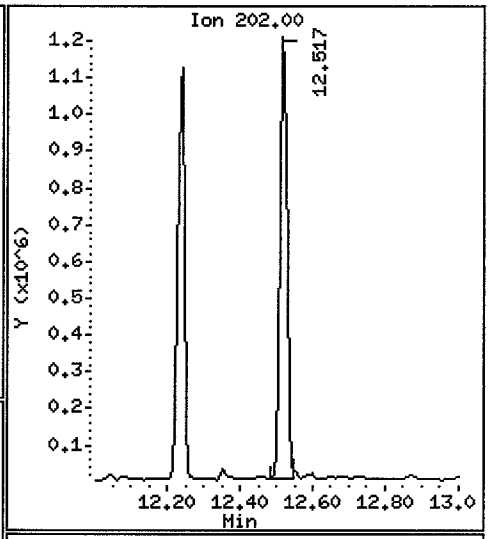
Concentration: 1232 ug/kg

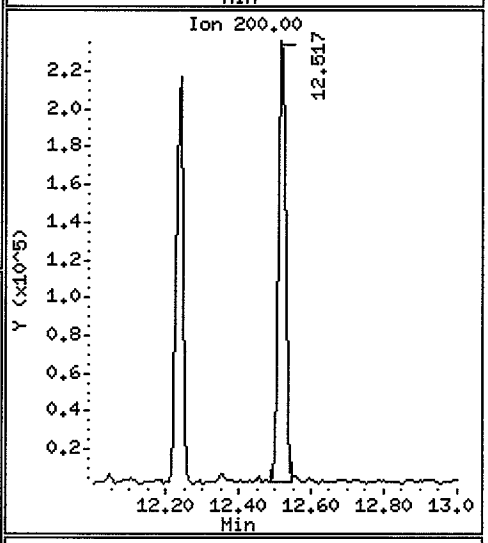


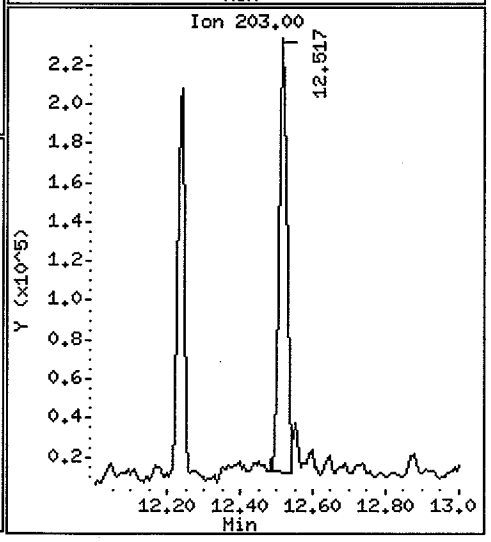












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

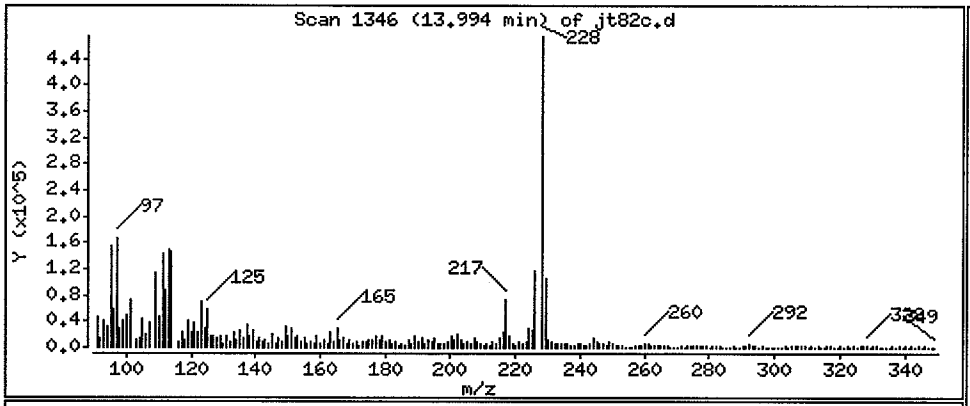
Operator: VTS

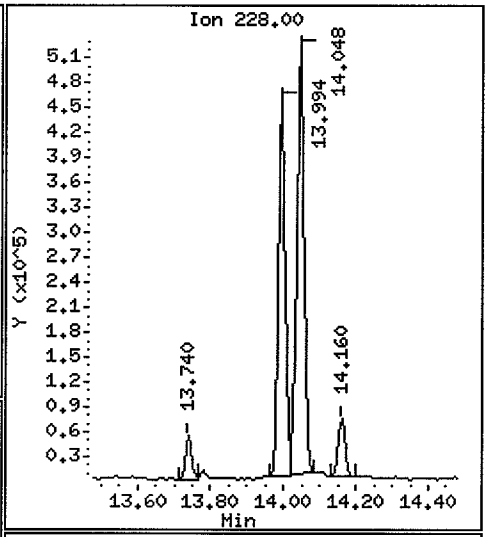
Column phase: ZB-5

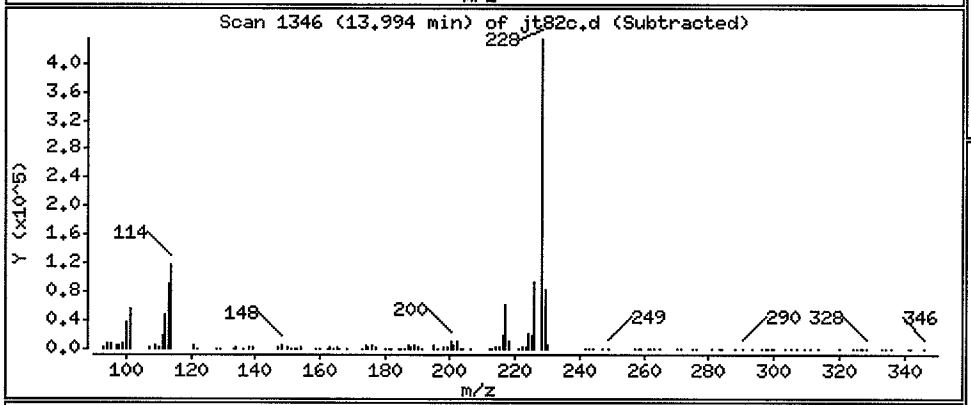
Column diameter: 0.25

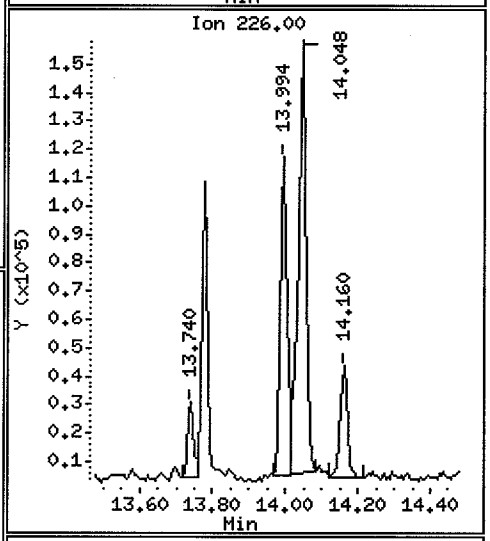
22 Benzo(a)anthracene

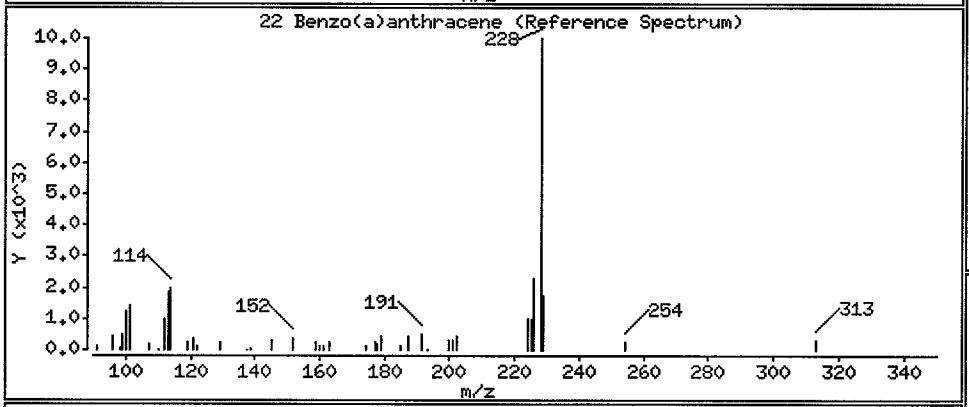
Concentration: 502.2 ug/kg

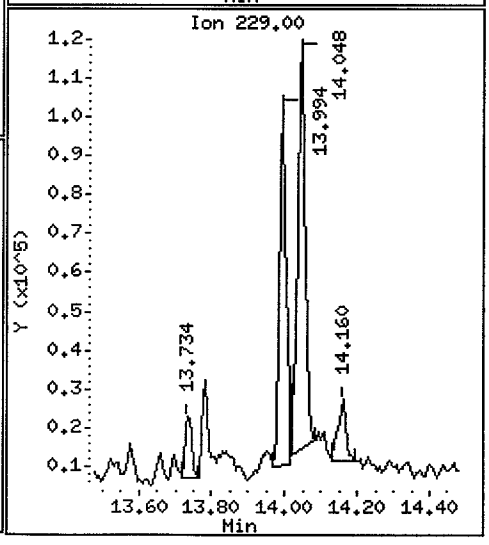


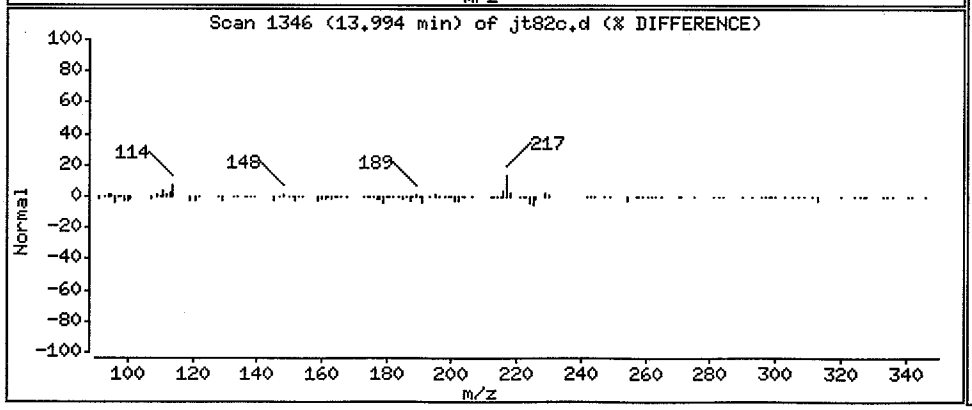












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

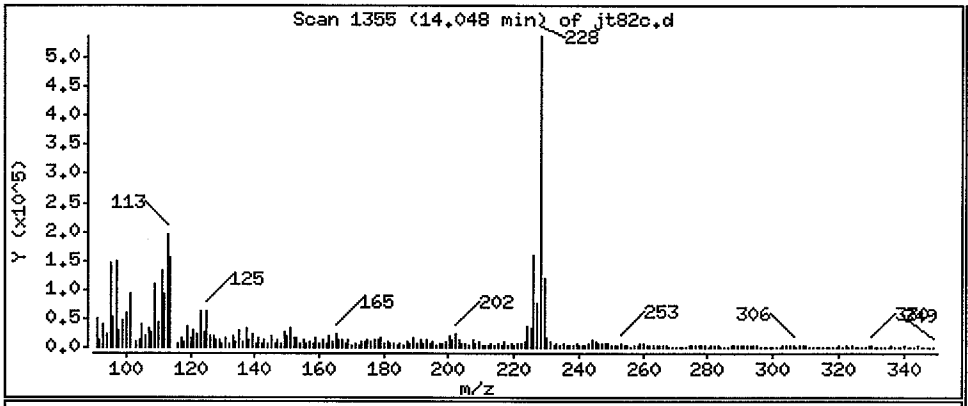
Operator: VTS

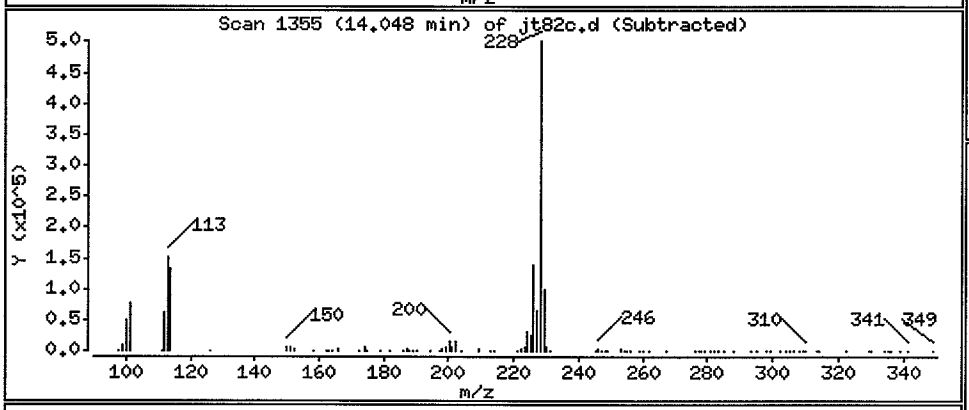
Column phase: ZB-5

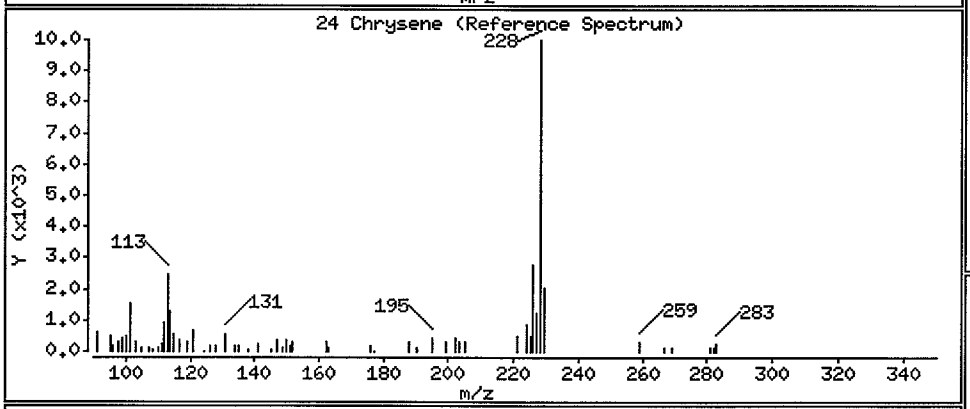
Column diameter: 0.25

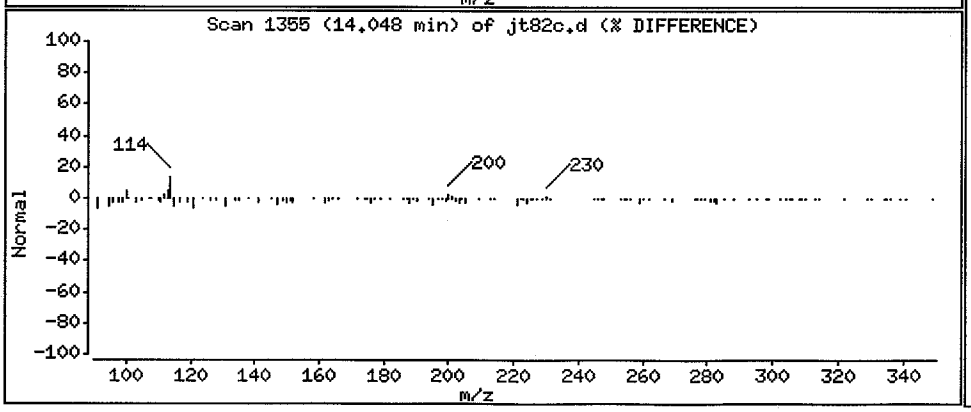
24 Chrysene

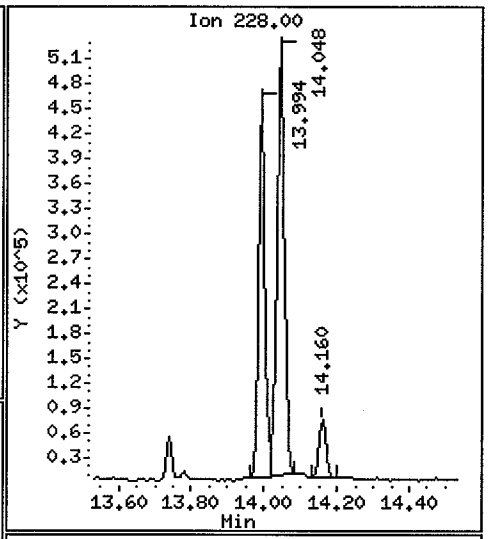
Concentration: 676.3 ug/kg

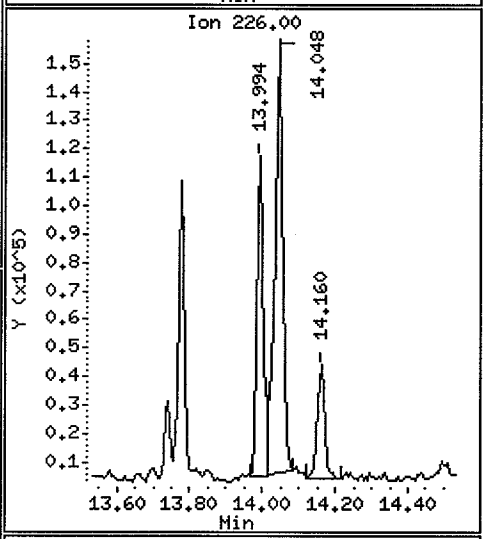


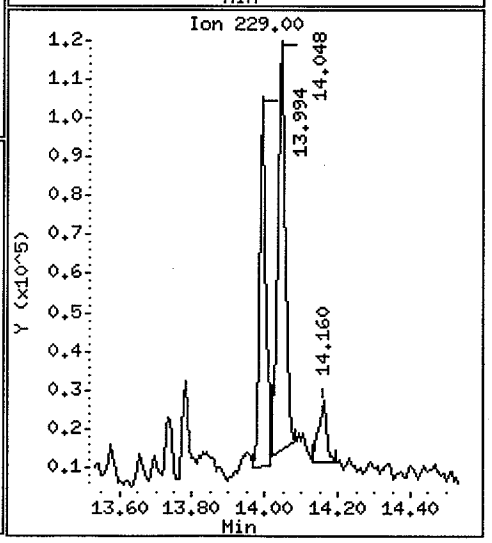












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-C

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

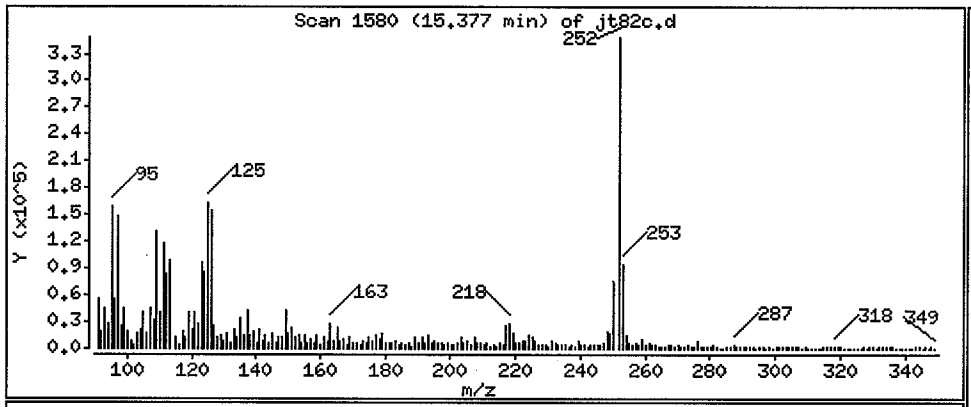
Operator: VTS

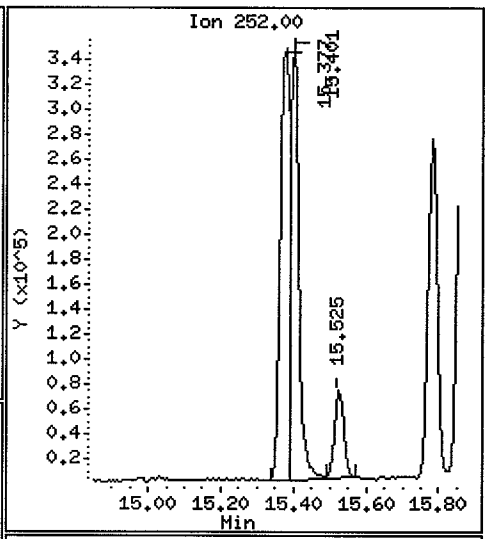
Column phase: ZB-5

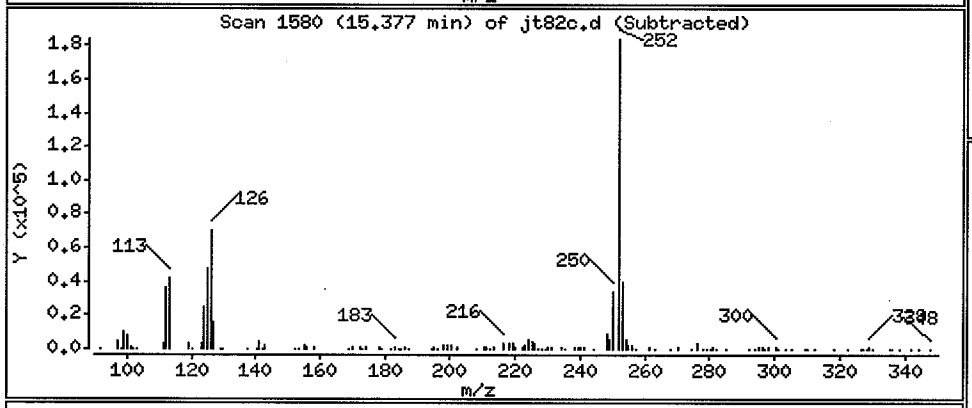
Column diameter: 0.25

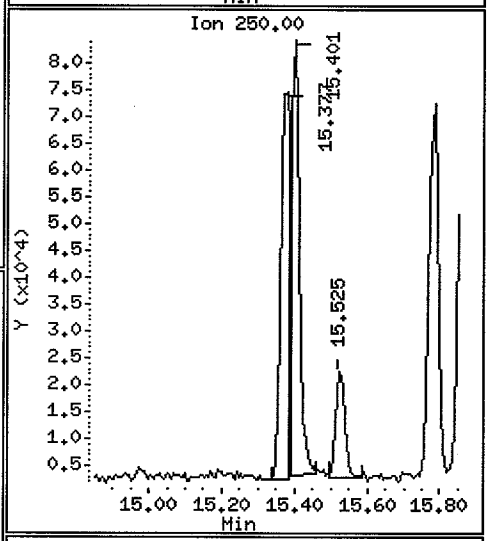
28 Benzo(b)fluoranthene

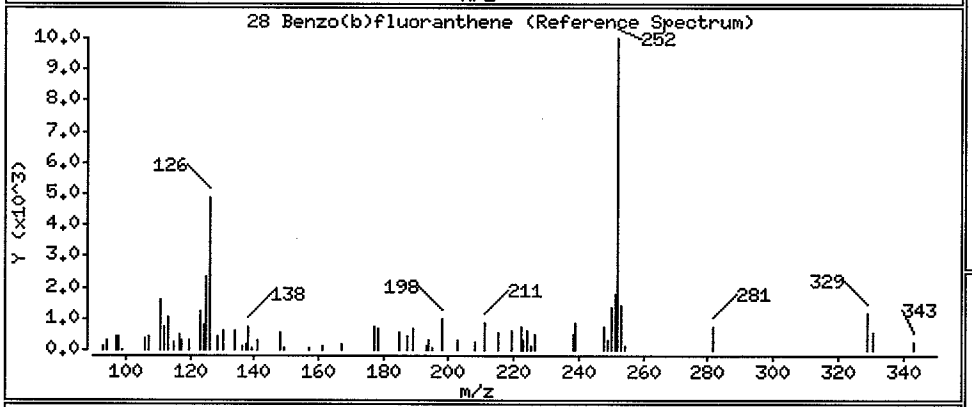
Concentration: 555.3 ug/kg

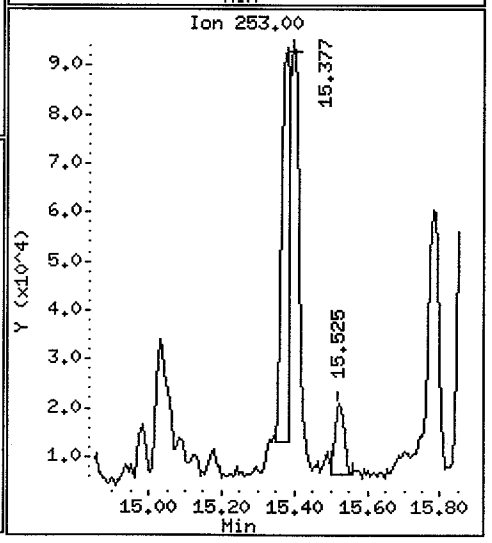


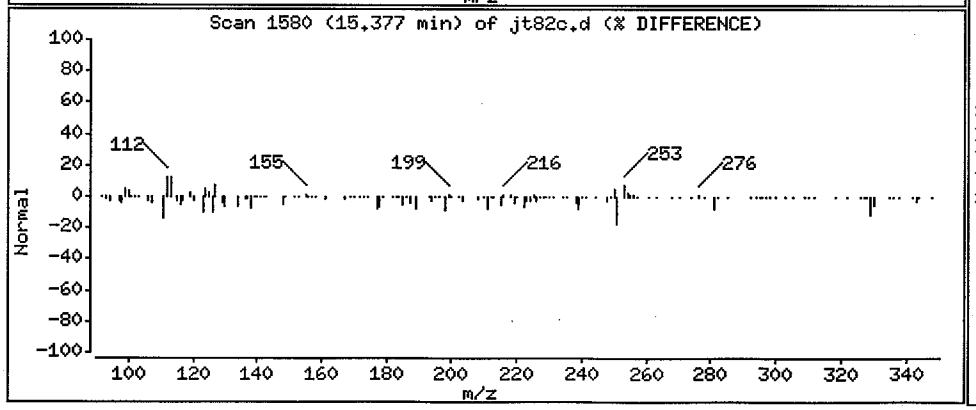












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

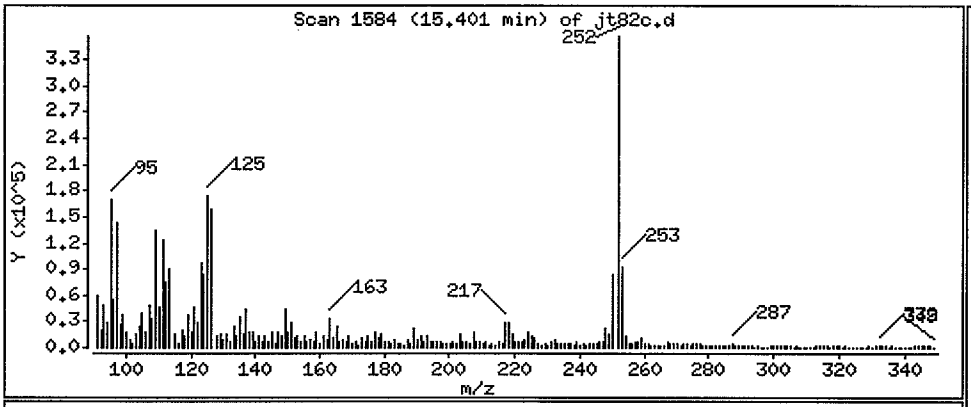
Operator: VTS

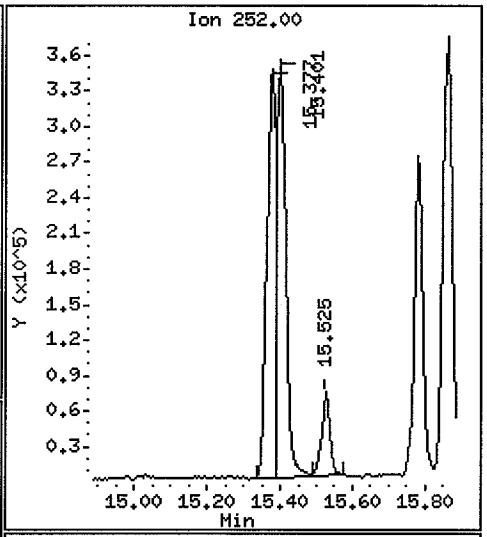
Column phase: ZB-5

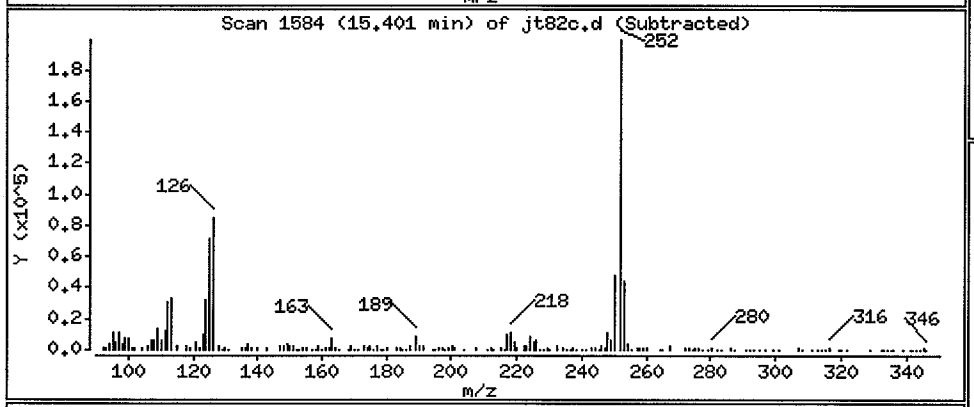
Column diameter: 0.25

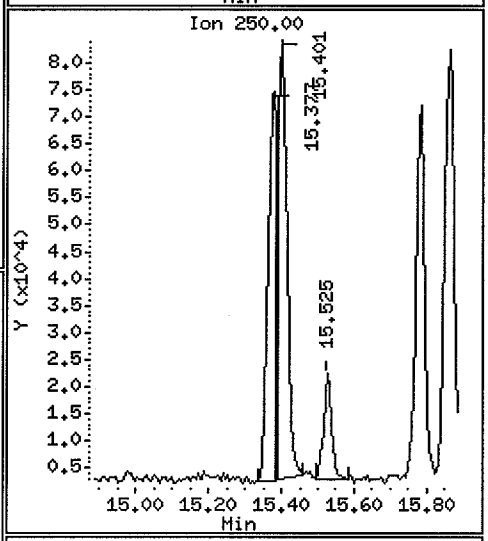
29 Benzo(k)fluoranthene

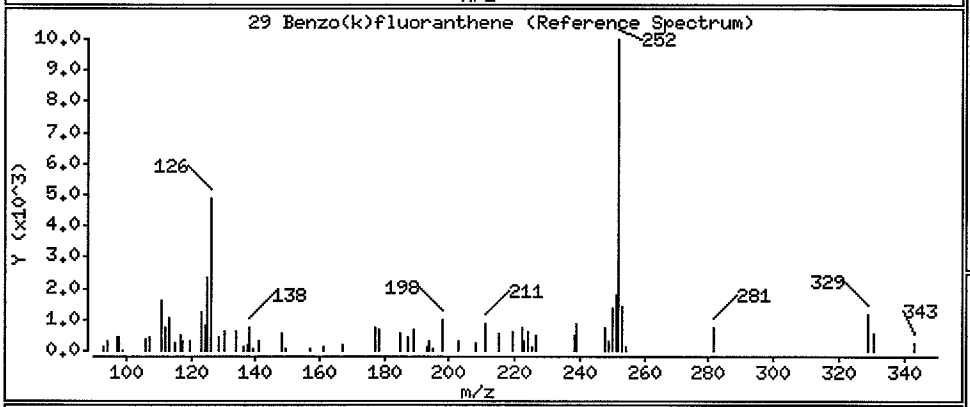
Concentration: 515.0 ug/kg

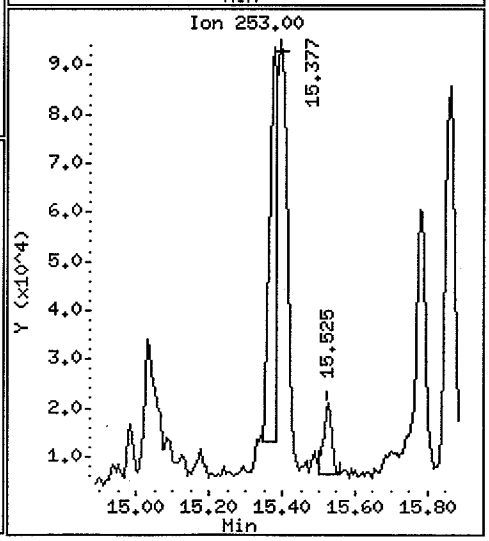


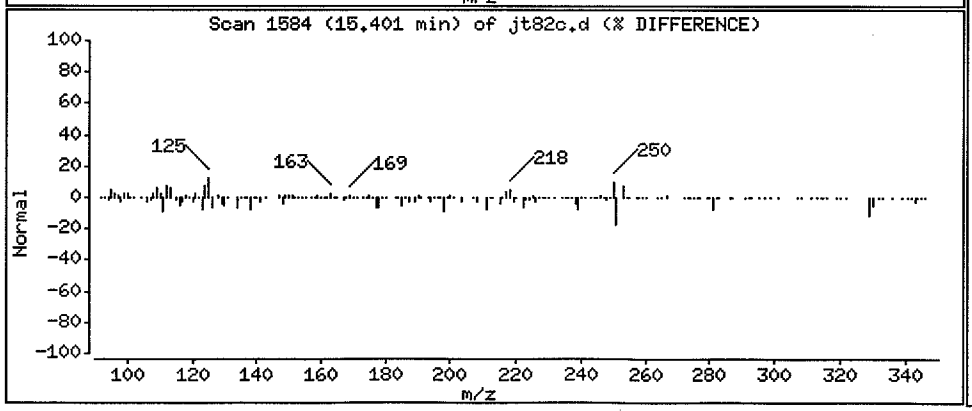












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

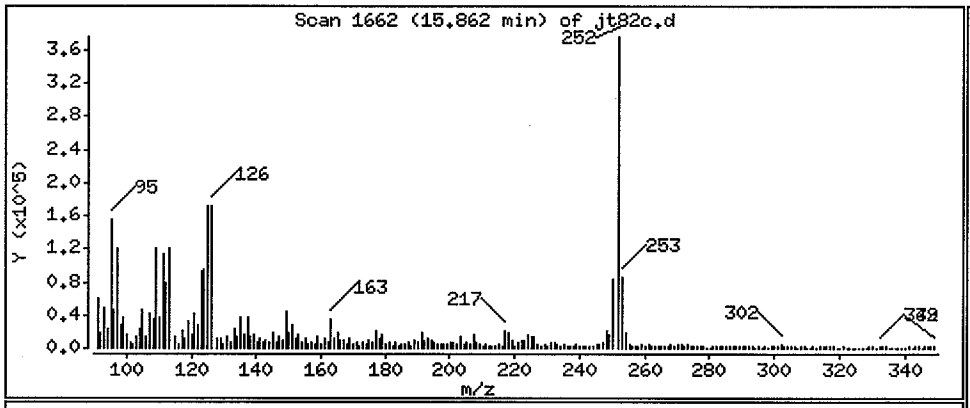
Operator: VTS

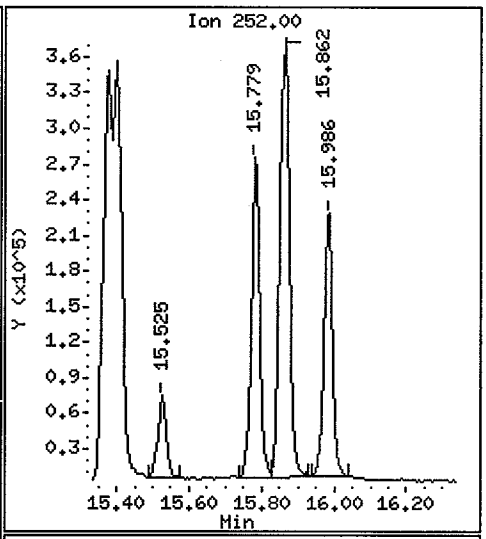
Column phase: ZB-5

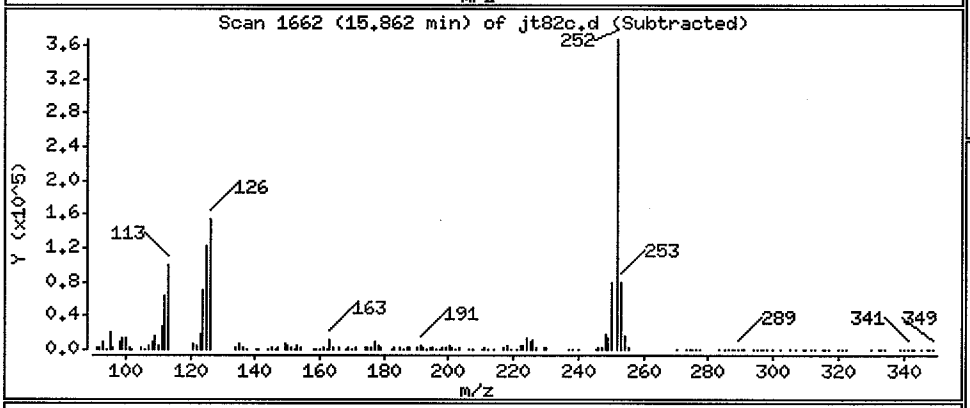
Column diameter: 0.25

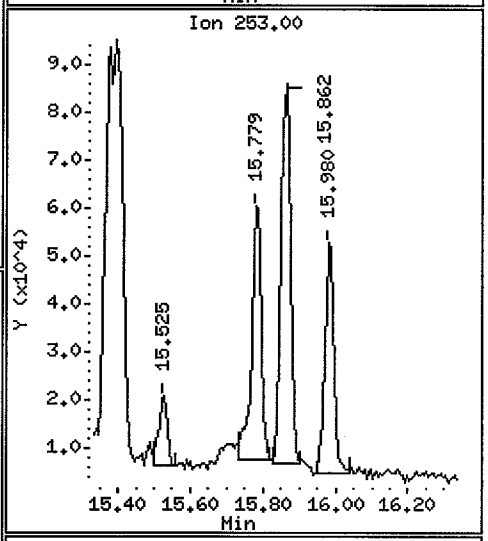
30 Benzo(a)pyrene

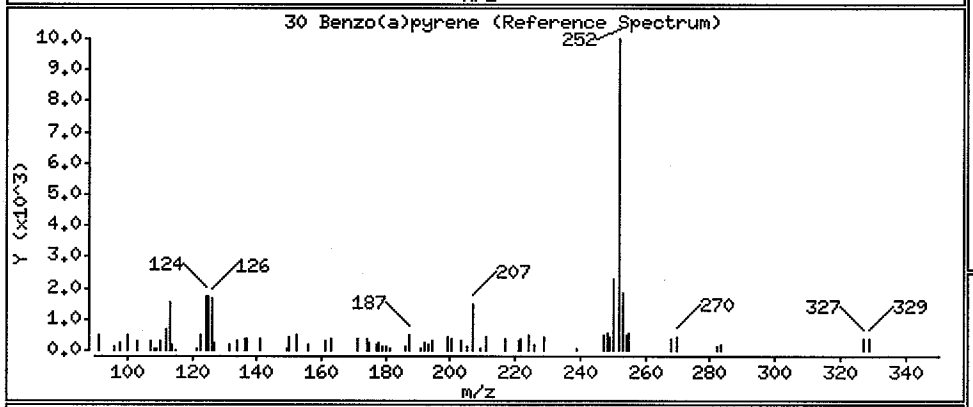
Concentration: 593.6 ug/kg

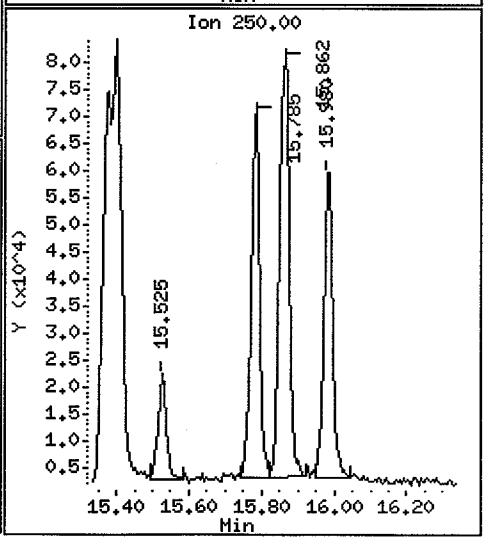


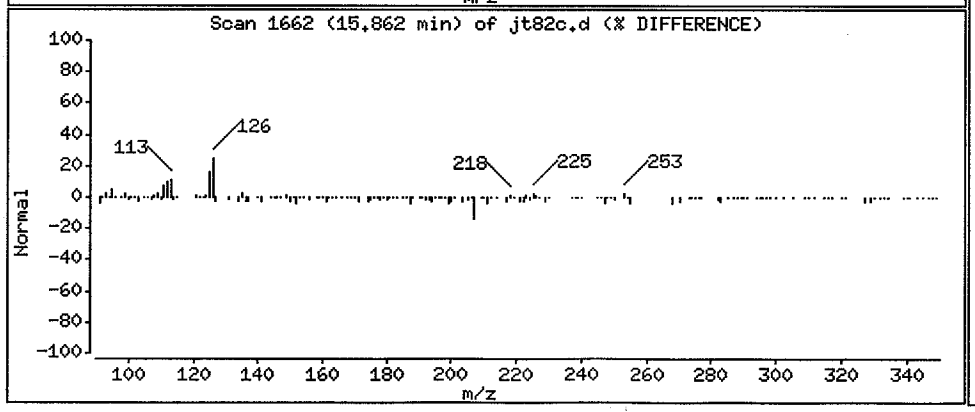












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

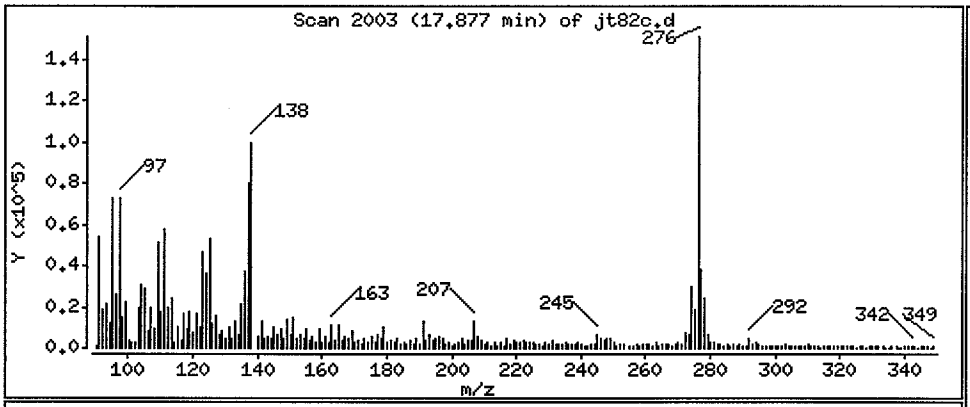
Operator: VTS

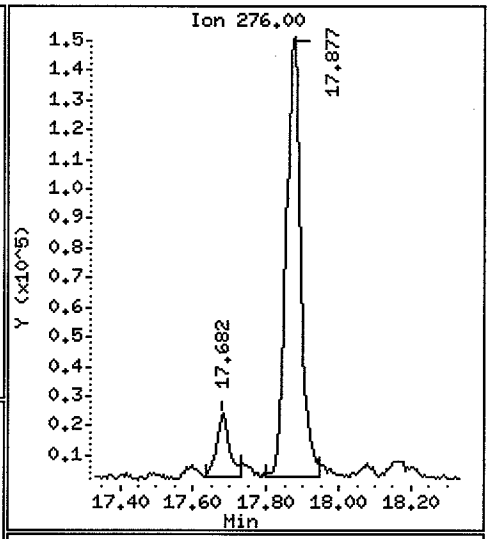
Column phase: ZB-5

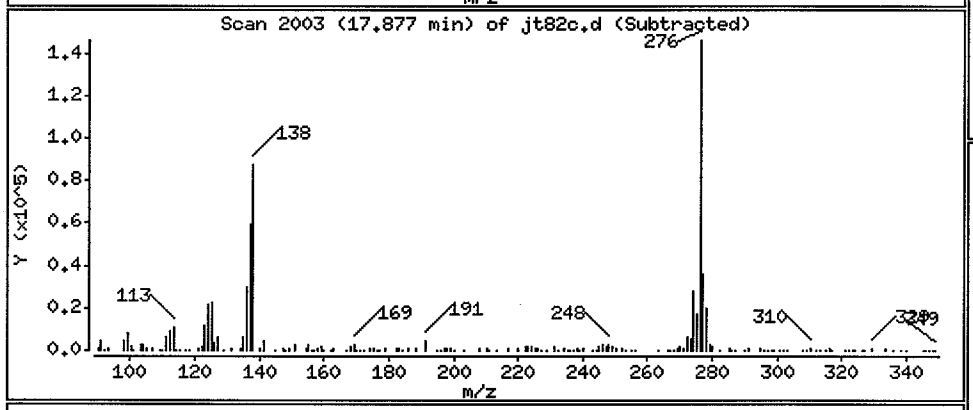
Column diameter: 0.25

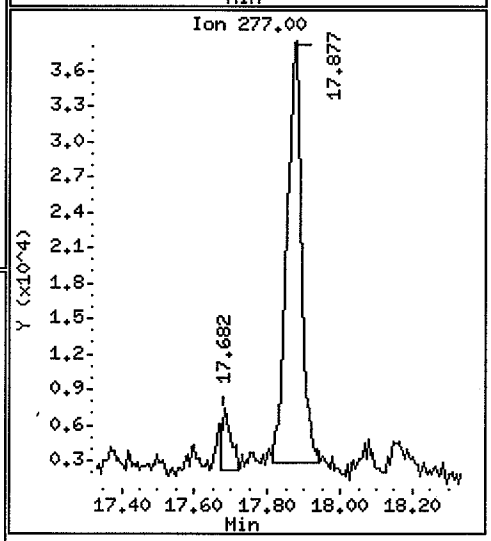
33 Indeno(1,2,3-cd)pyrene

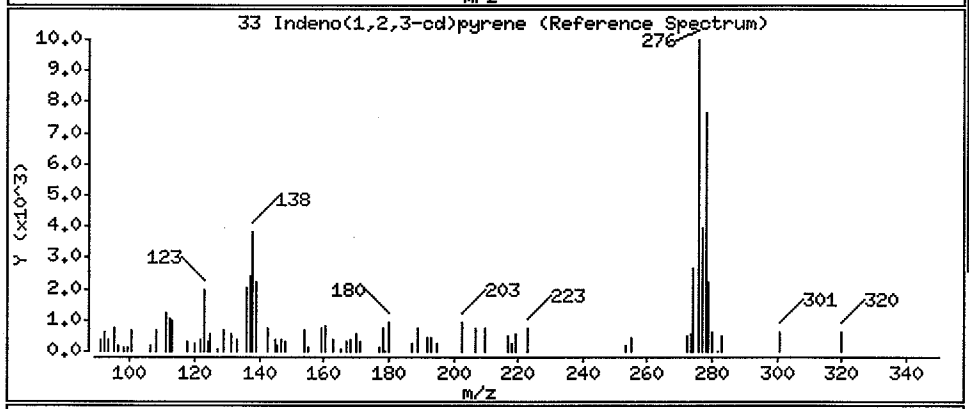
Concentration: 341.4 ug/kg

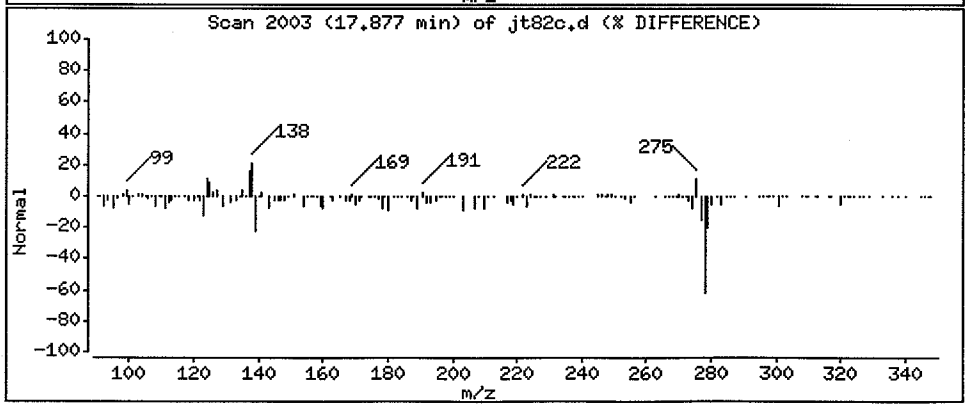












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

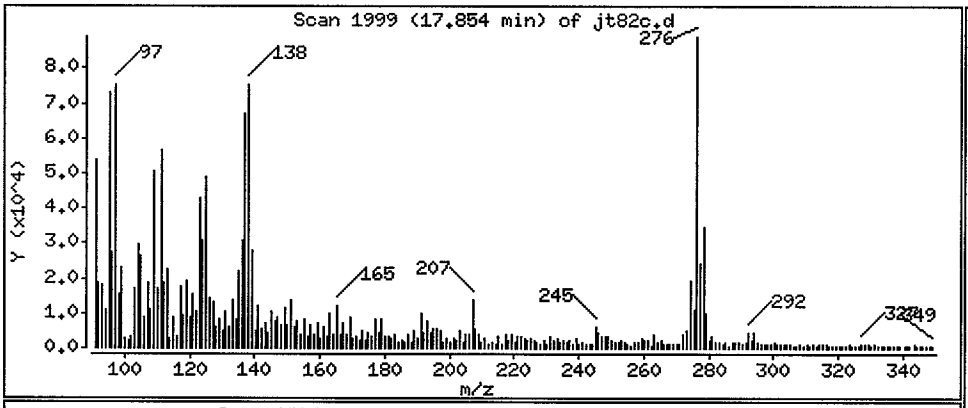
Operator: VTS

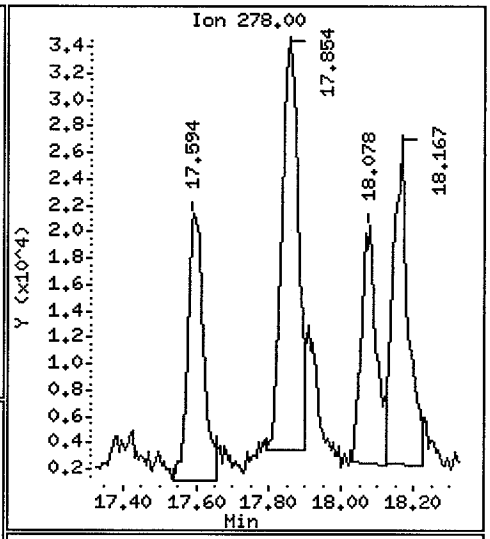
Column phase: ZB-5

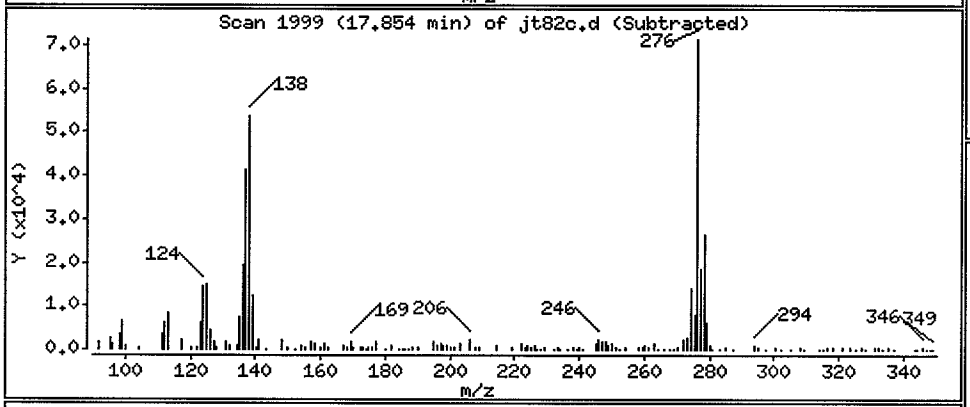
Column diameter: 0.25

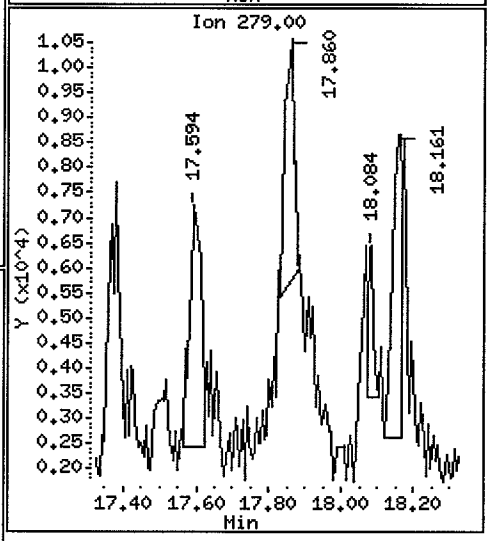
34 Dibenz(a,h)anthracene

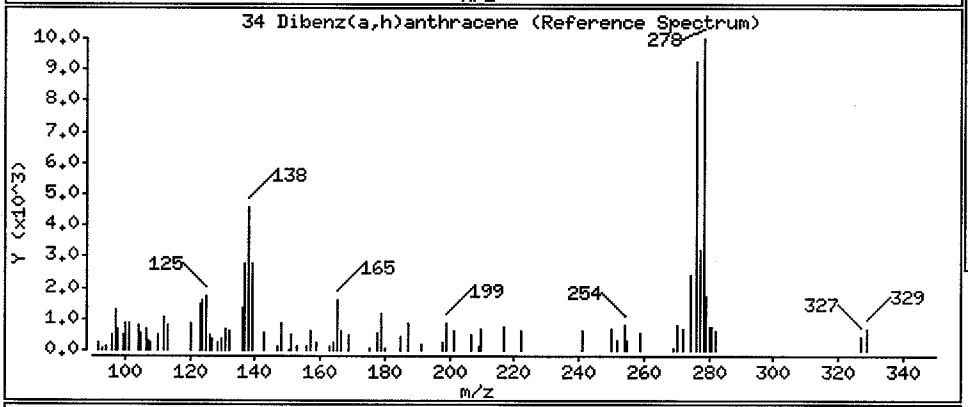
Concentration: 98.23 ug/kg

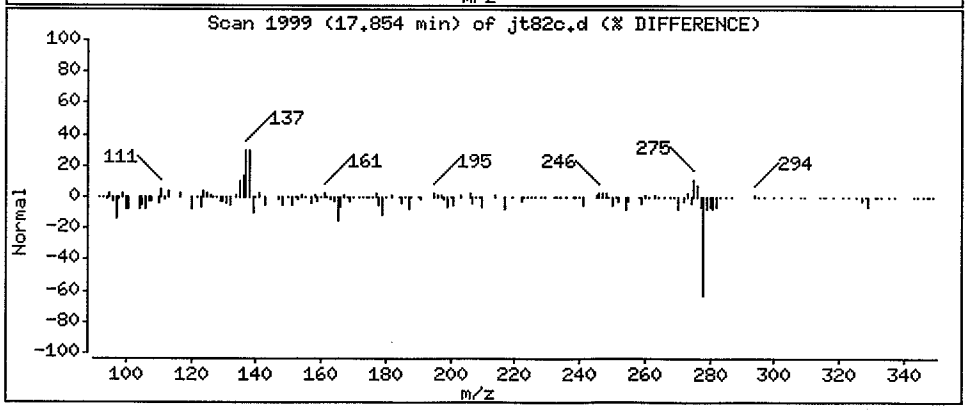












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

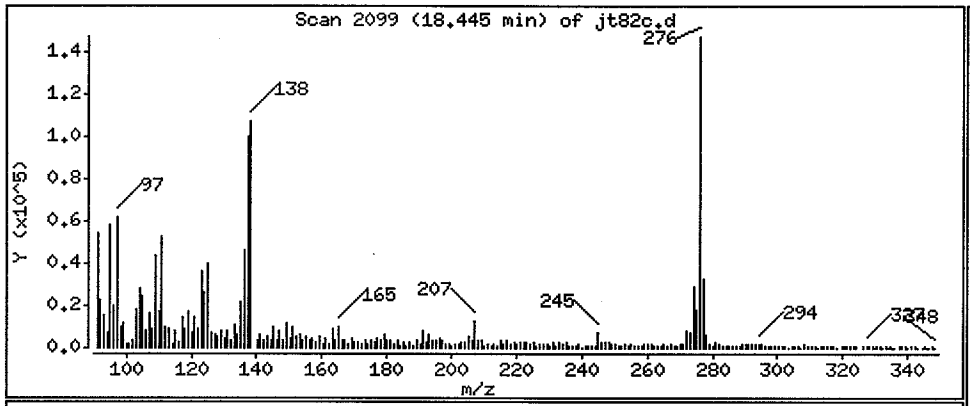
Operator: VTS

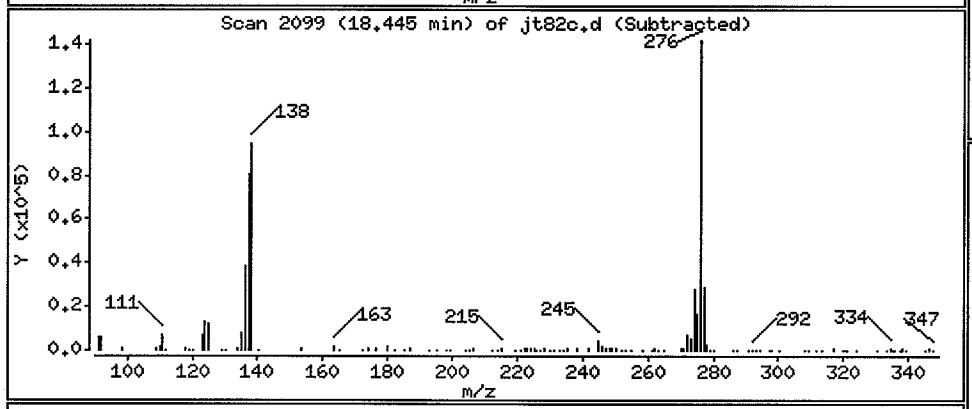
Column phase: ZB-5

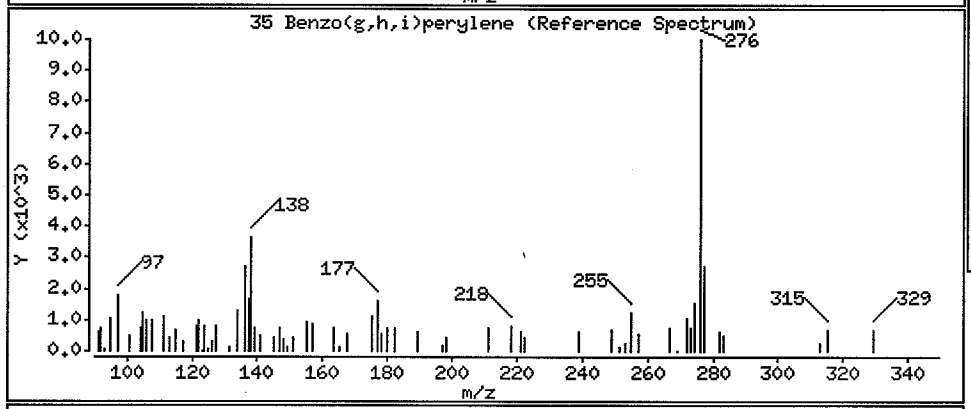
Column diameter: 0.25

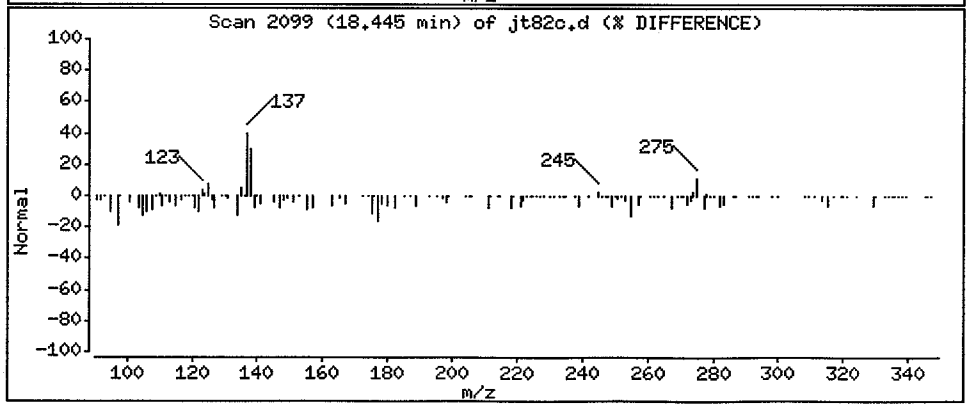
35 Benzo(g,h,i)perylene

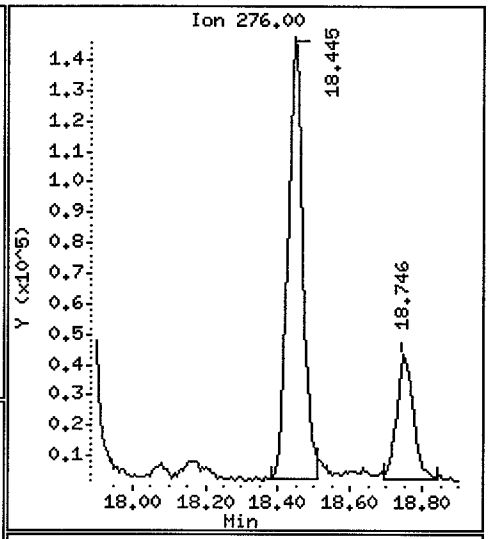
Concentration: 410.6 ug/kg

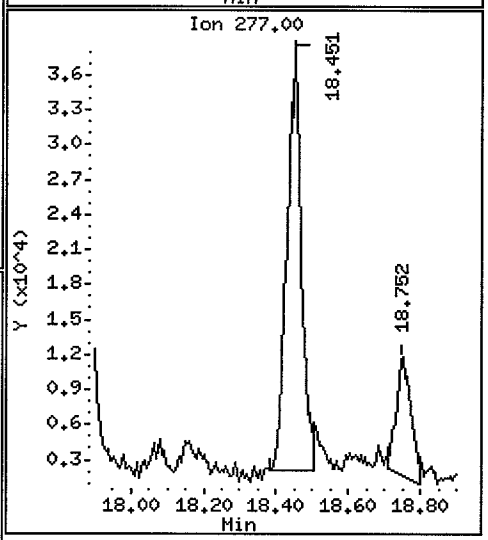












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

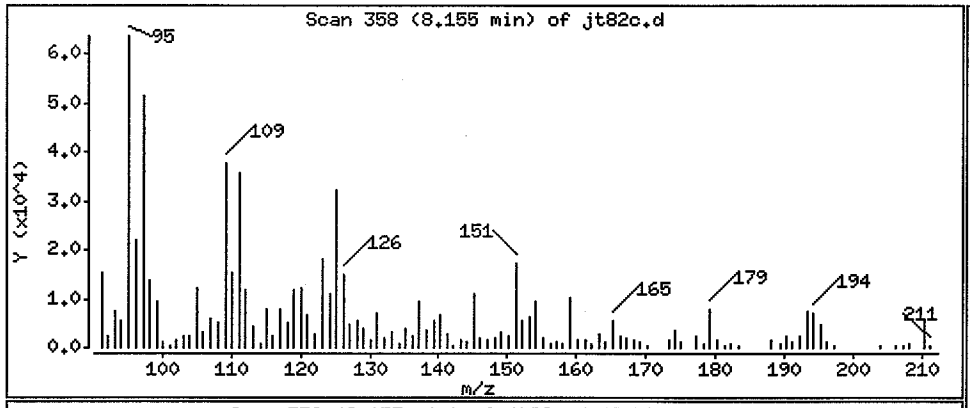
Operator: VTS

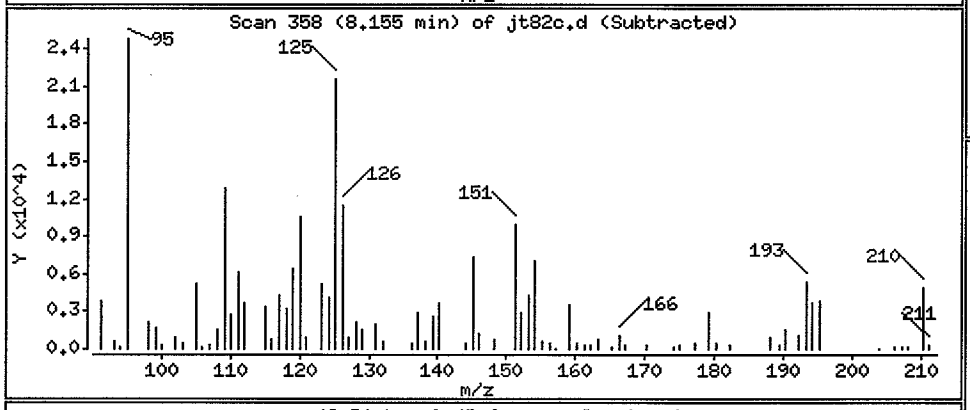
Column phase: ZB-5

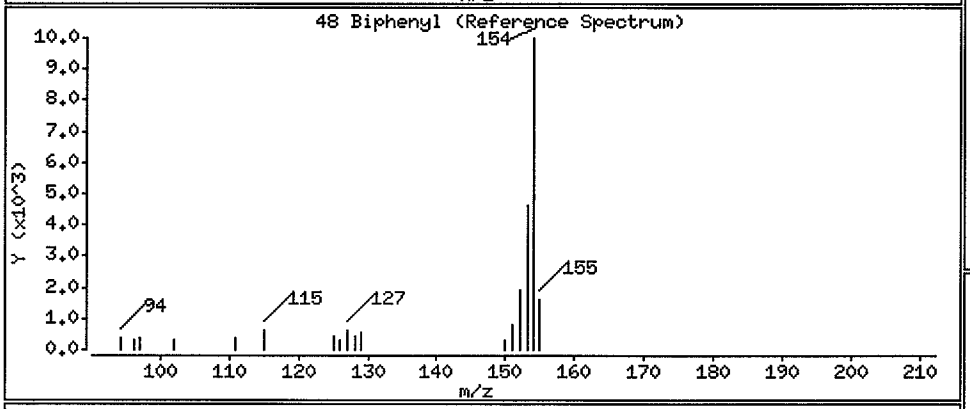
Column diameter: 0.25

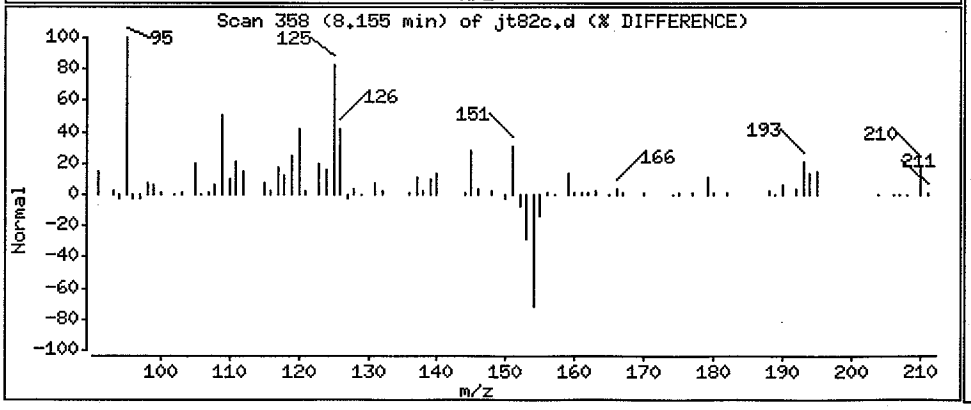
48 Biphenyl

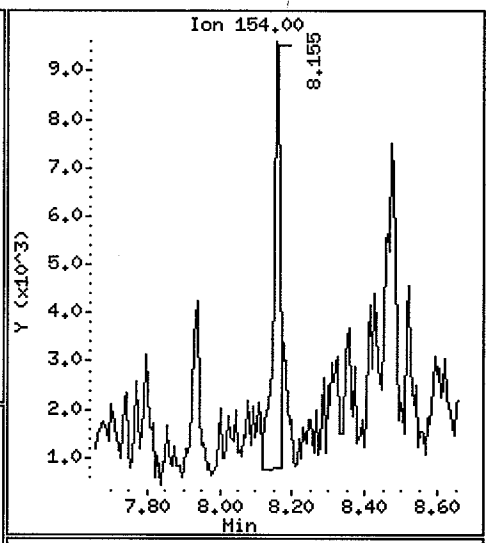
Concentration: 10.32 ug/kg

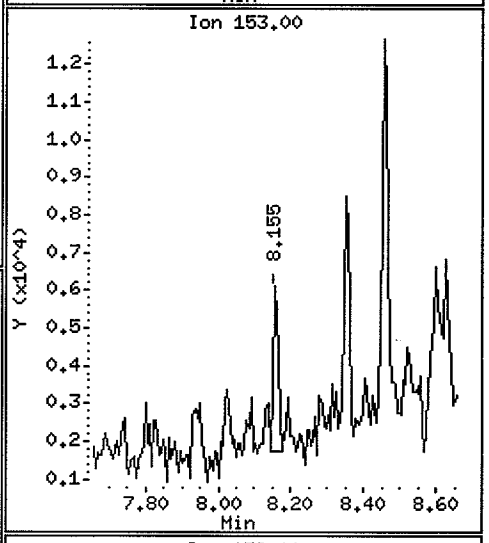


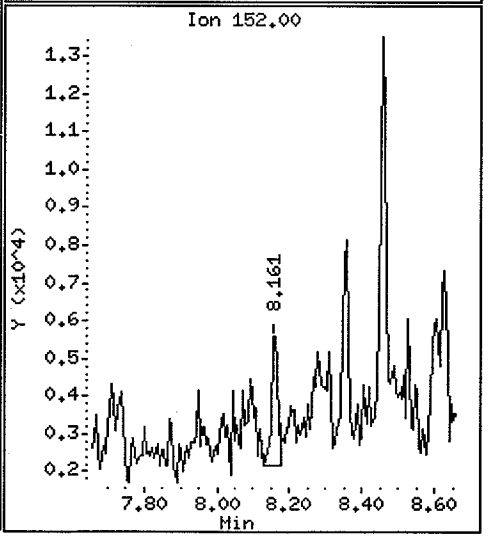












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

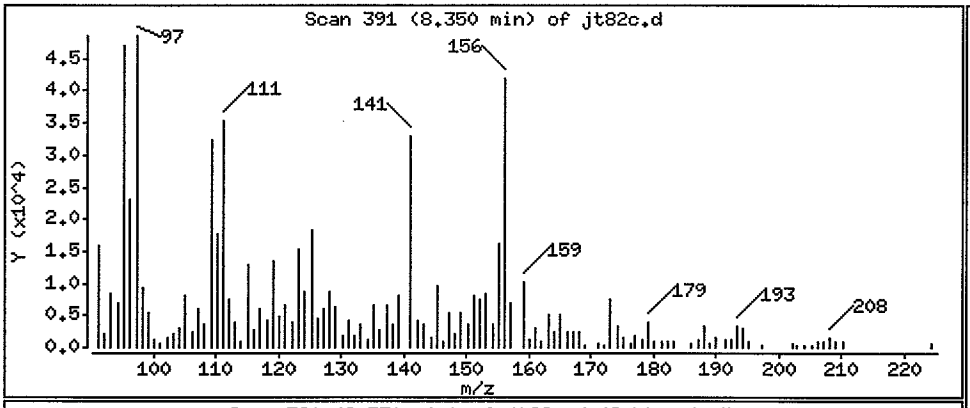
Operator: VTS

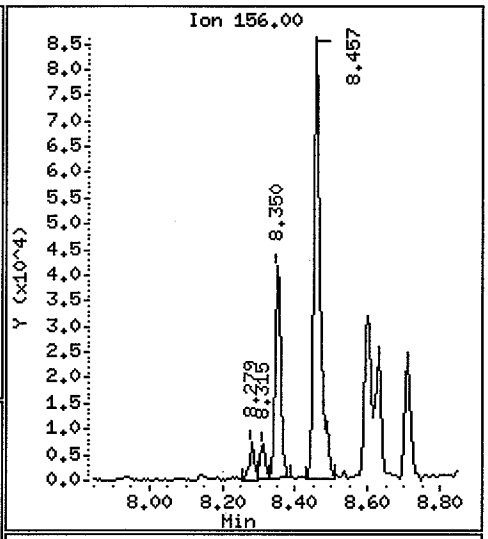
Column phase: ZB-5

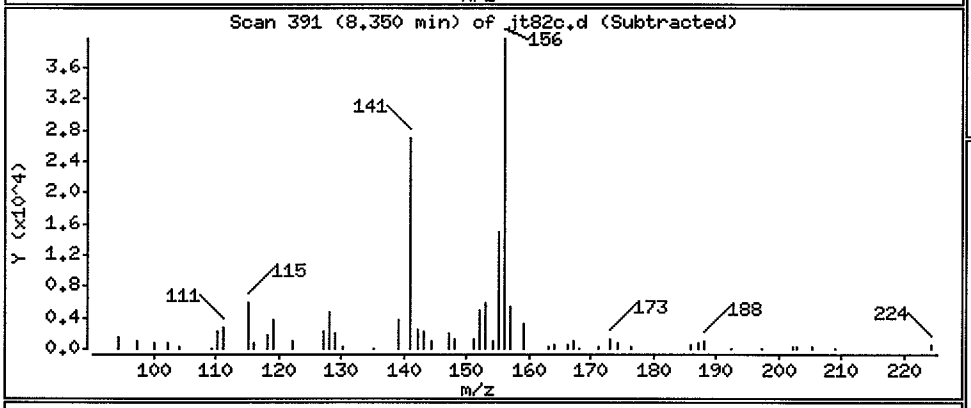
Column diameter: 0.25

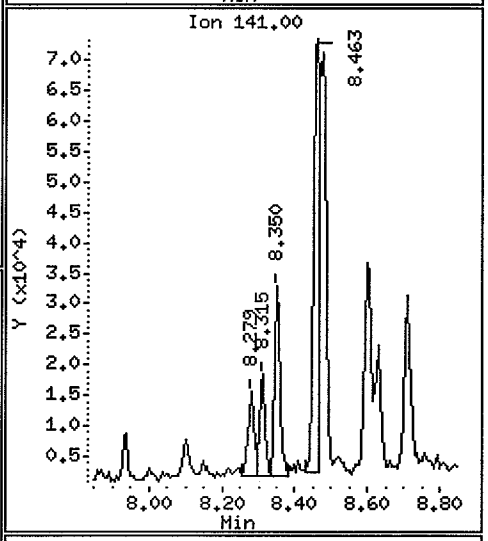
49 2,6-Dimethylnaphthalene

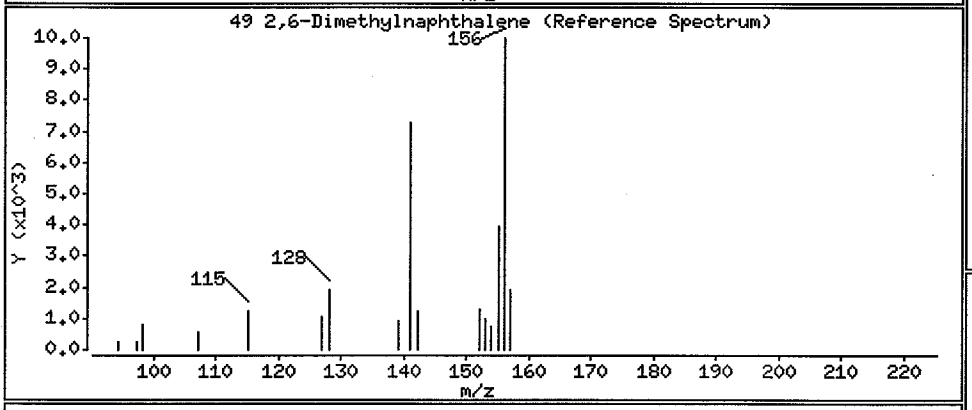
Concentration: 52.79 ug/kg

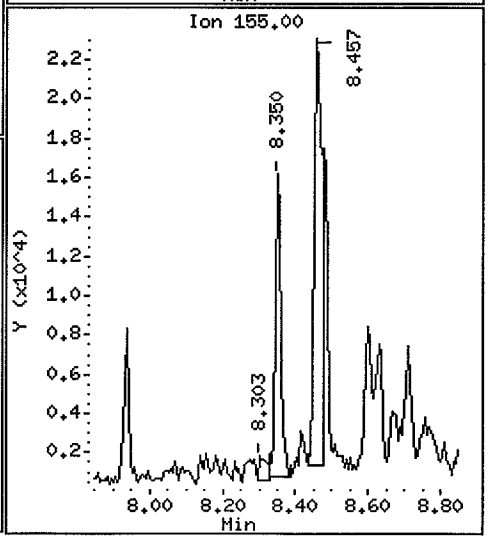


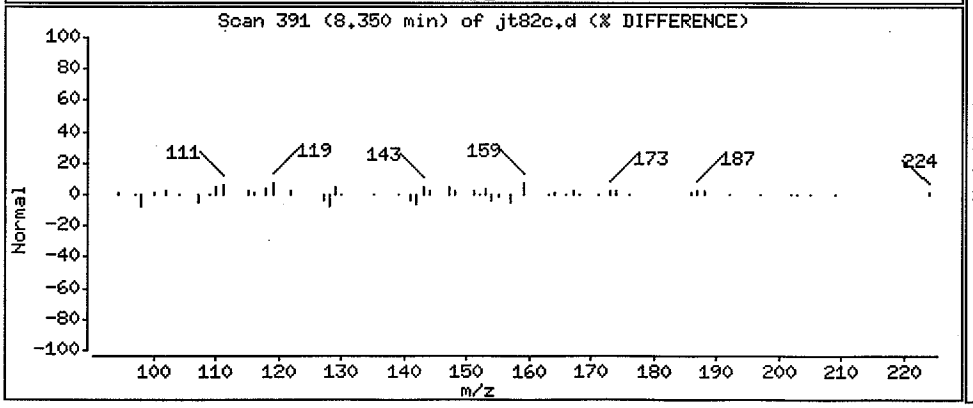












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

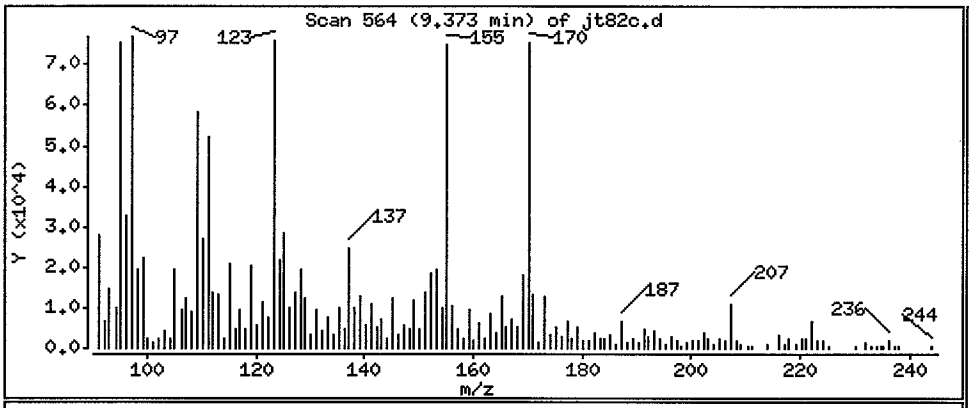
Operator: VTS

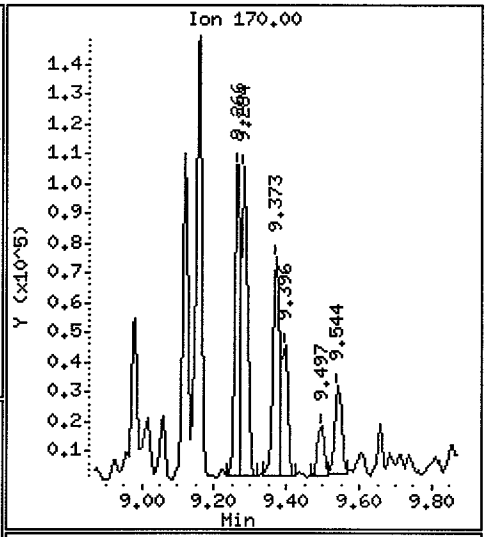
Column phase: ZB-5

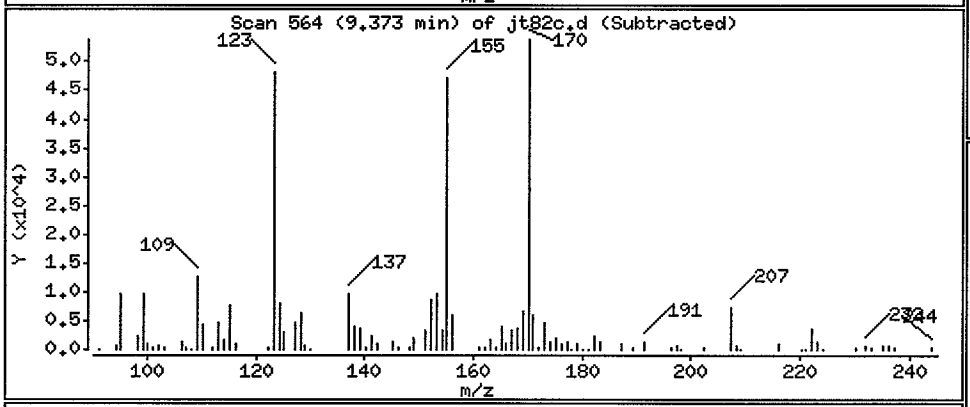
Column diameter: 0.25

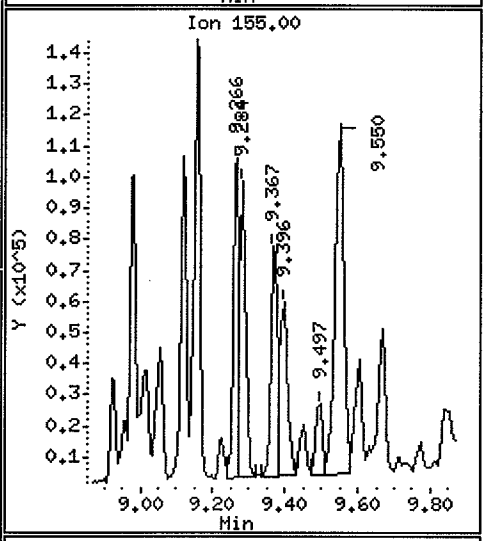
50 2,3,5-Trimethylnaphthalene

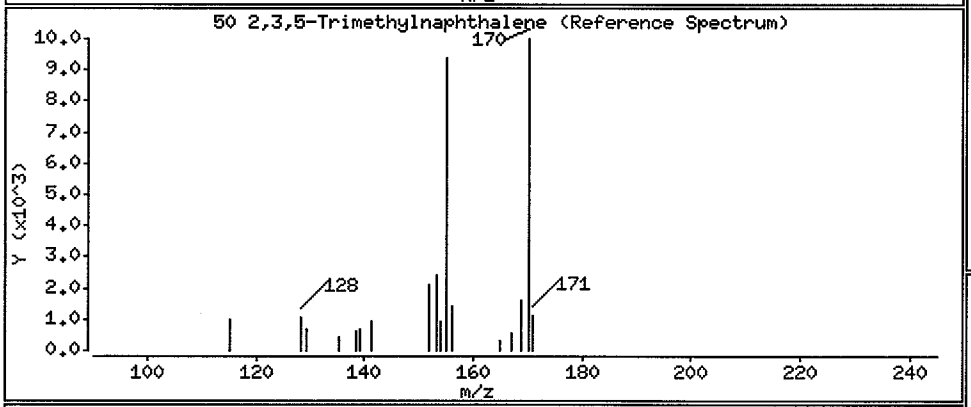
Concentration: 136.3 ug/kg

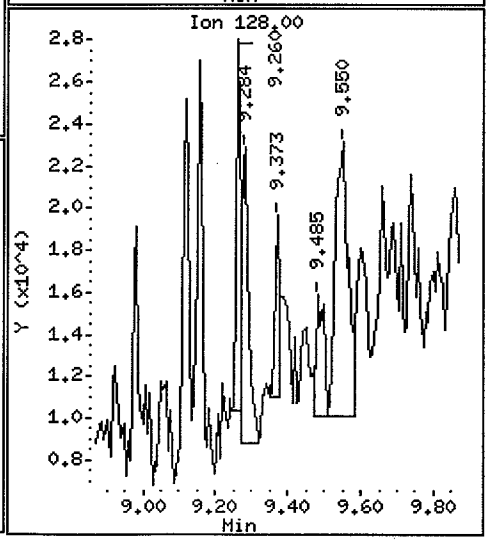


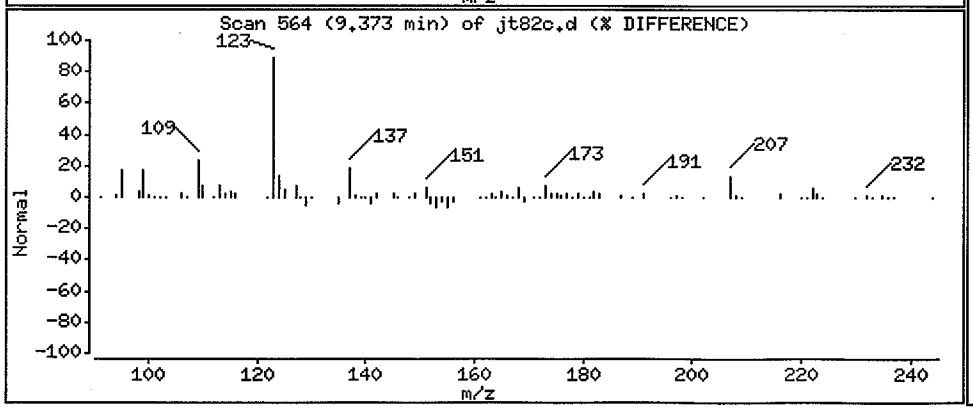












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

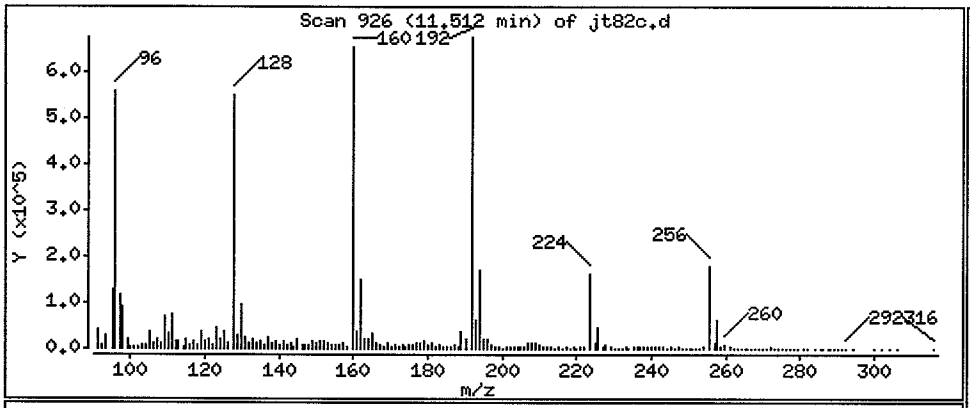
Operator: VTS

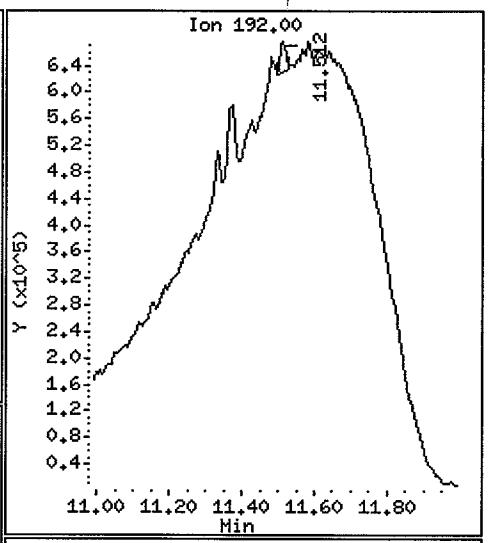
Column phase: ZB-5

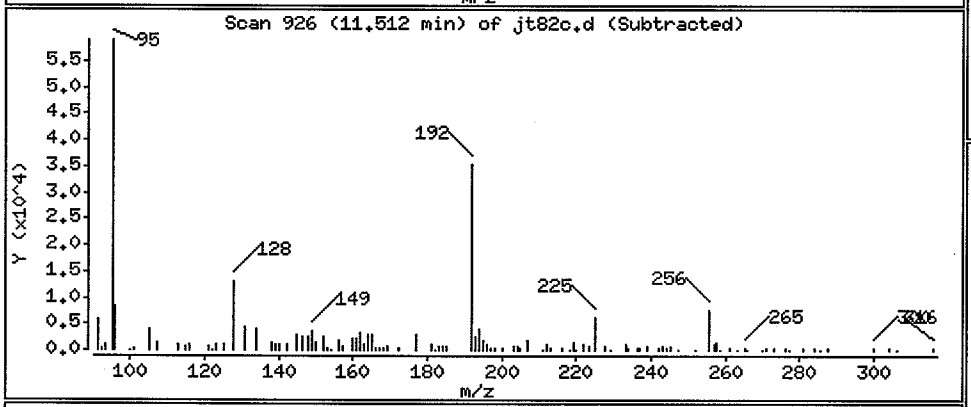
Column diameter: 0.25

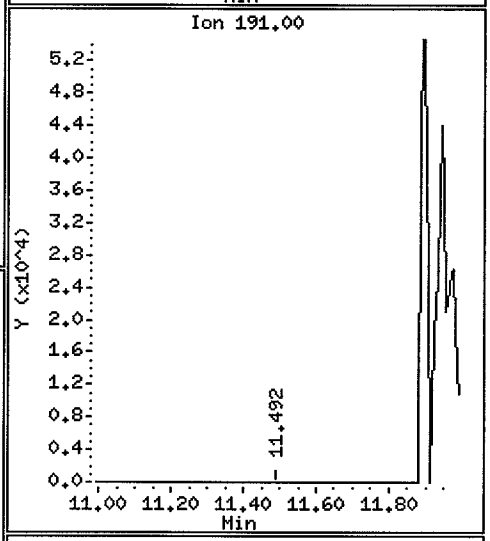
51 1-Methylphenanthrene

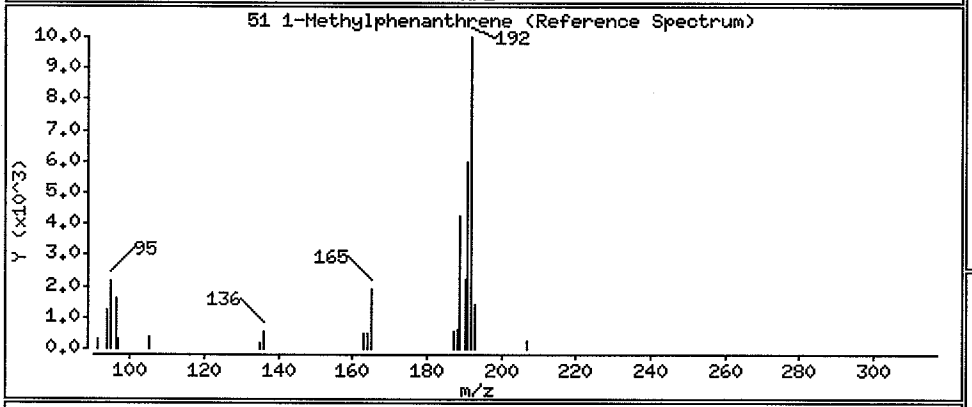
Concentration: 49.69 ug/kg

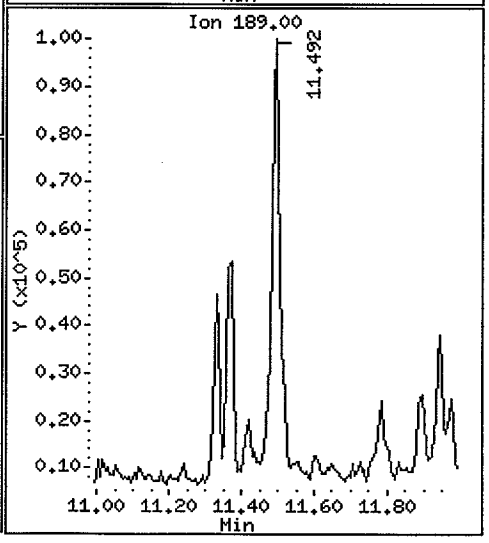


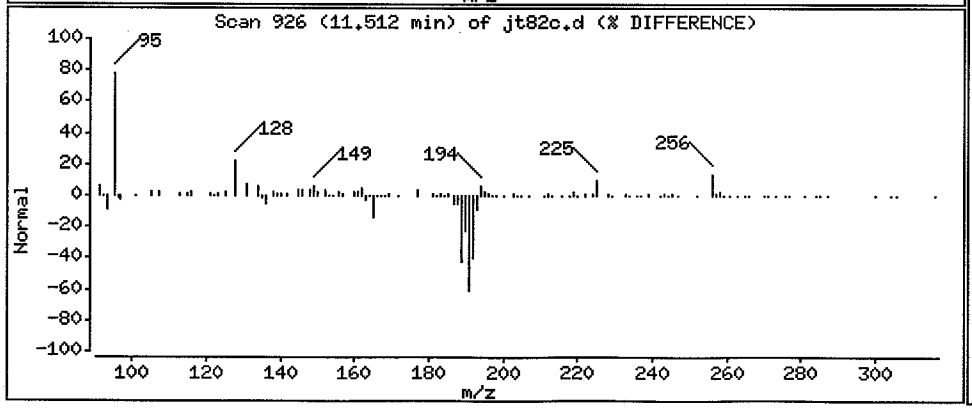












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

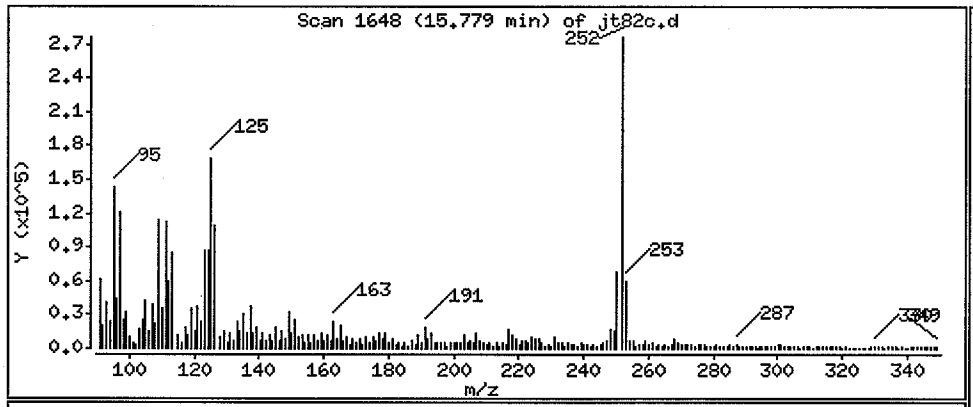
Operator: VTS

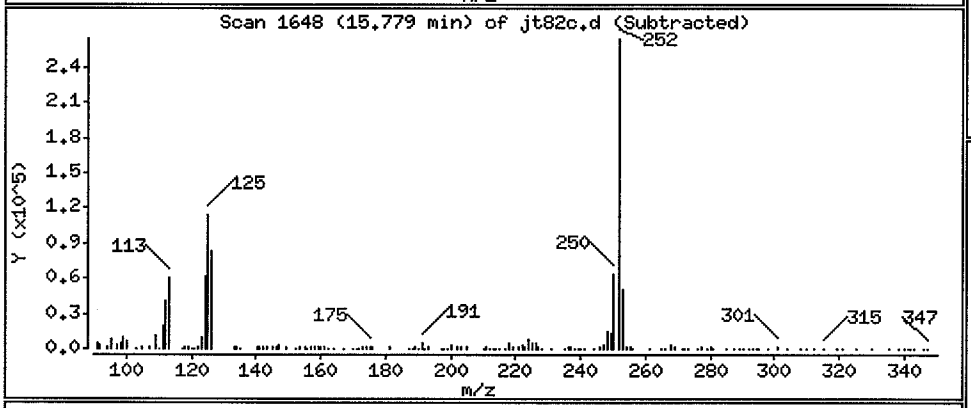
Column phase: ZB-5

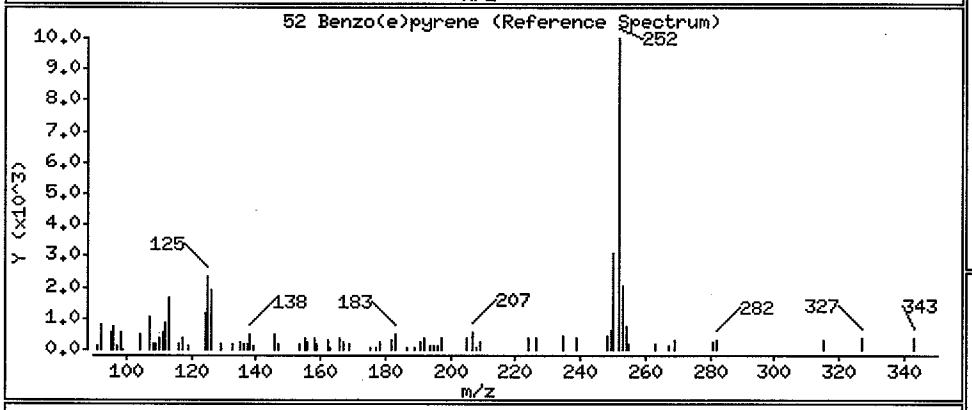
Column diameter: 0.25

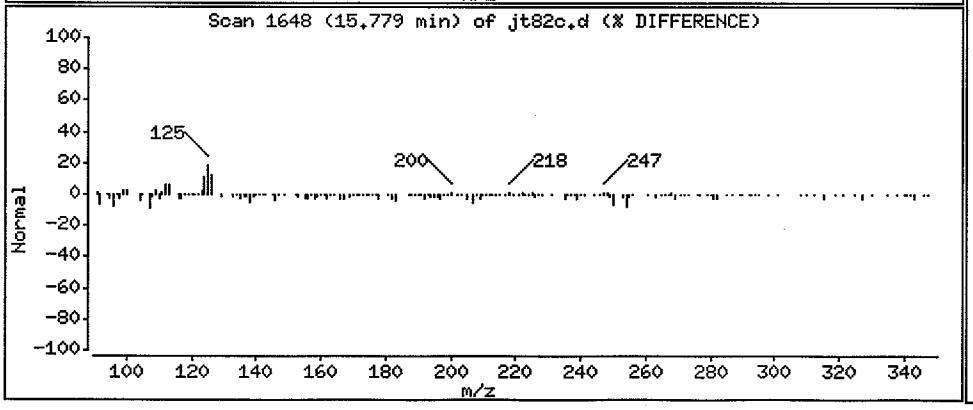
52 Benzo(e)pyrene

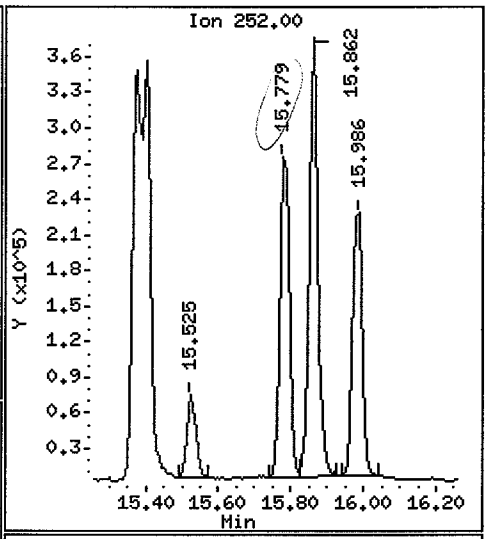
Concentration: 389.6 ug/kg

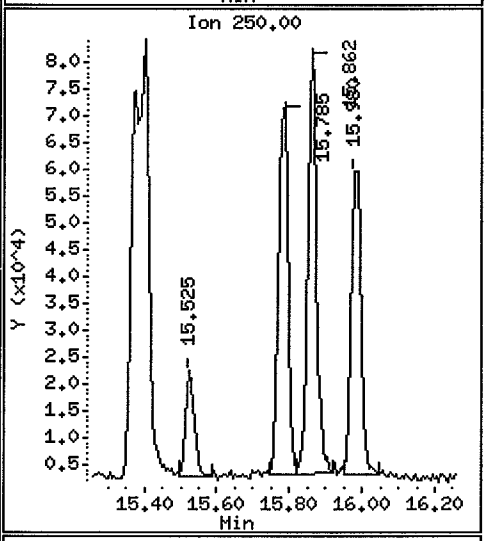


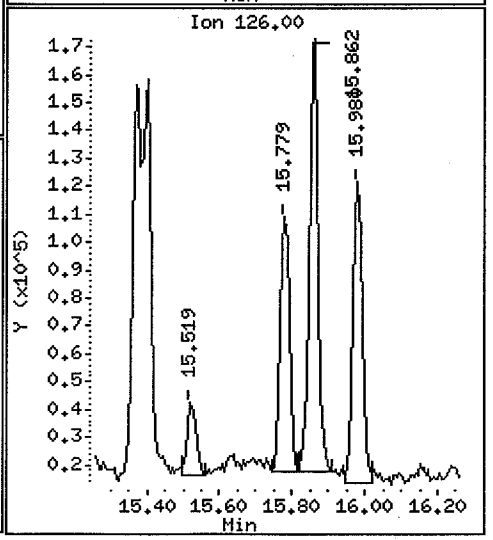












Data File: /chem3/nt1.i/20060831.b/jt82c.d

Date : 31-AUG-2006 13:27

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,2

Volume Injected (uL): 1.0

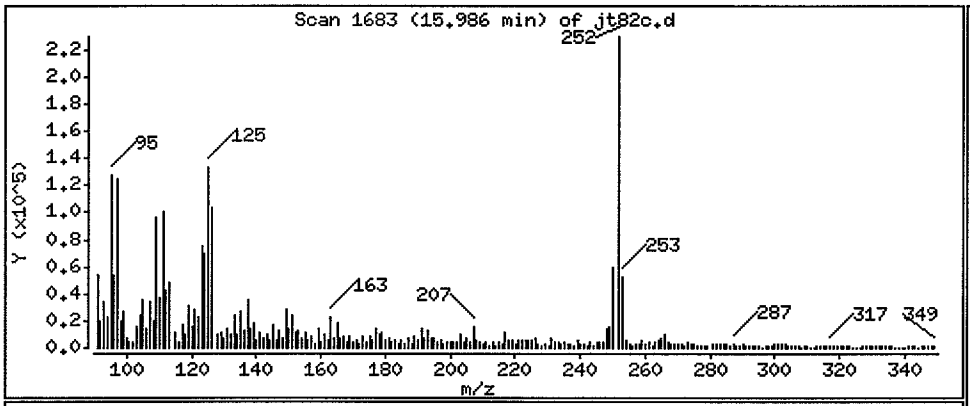
Operator: VTS

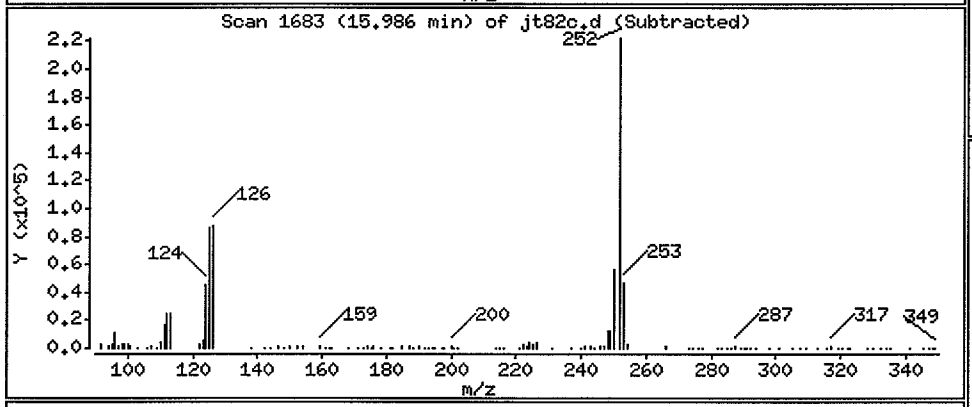
Column phase: ZB-5

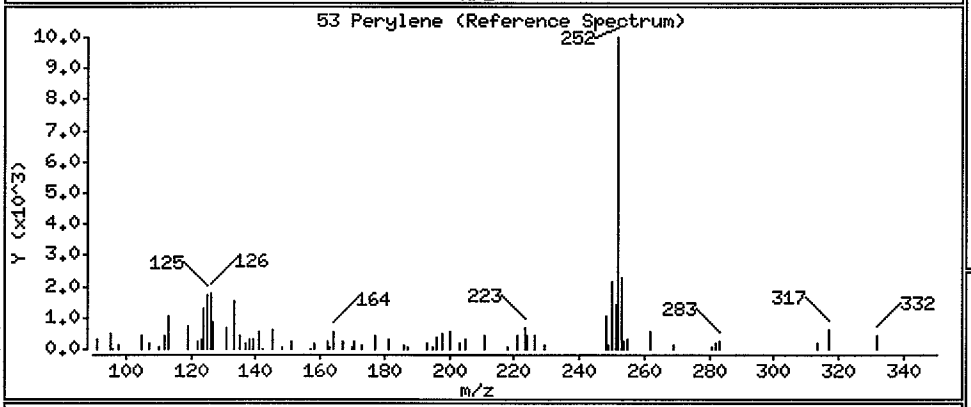
Column diameter: 0.25

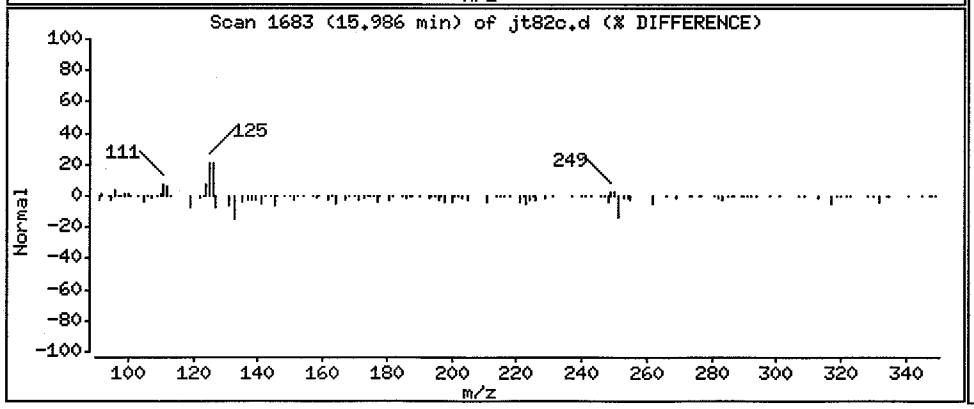
53 Perylene

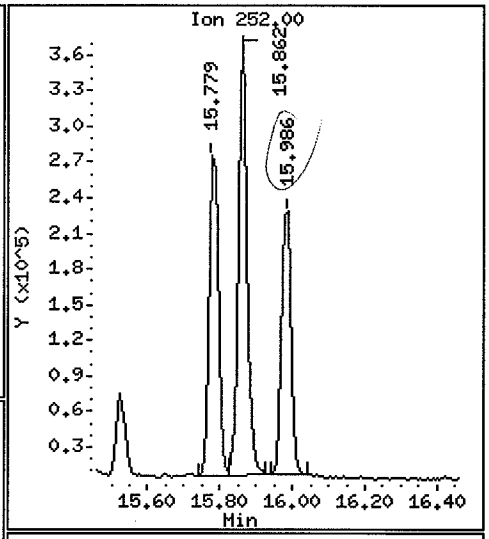
Concentration: 344.7 ug/kg

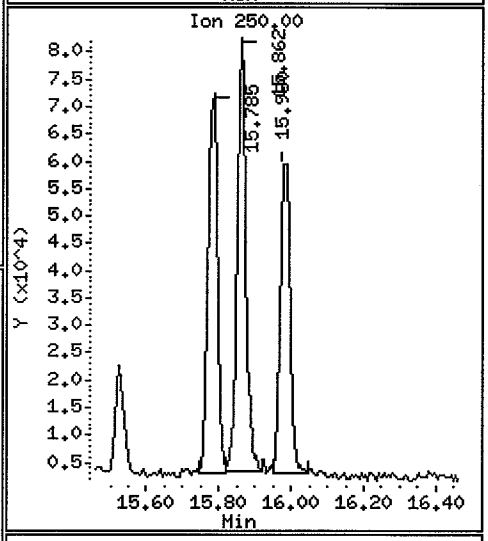


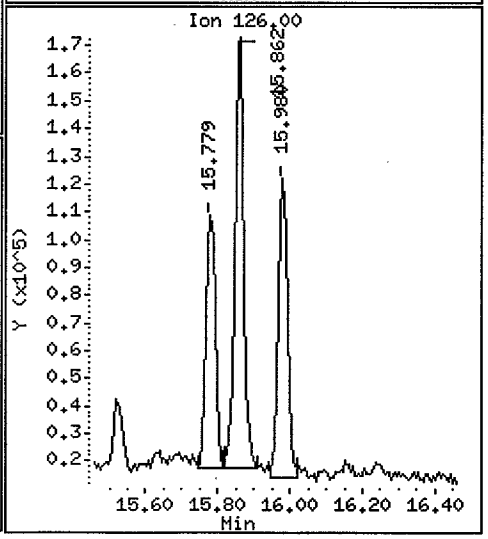












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-G**
Page 1 of 1 **DILUTION**

Lab Sample ID: JT82C
LIMS ID: 06-15217
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 09/01/06 12:19
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 37.3%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**50**	**50**
91-57-6	2-Methylnaphthalene	50	< 50 U
90-12-0	1-Methylnaphthalene	50	< 50 U
208-96-8	Acenaphthylene	50	< 50 U
83-32-9	**Acenaphthene**	**50**	**170**
86-73-7	**Fluorene**	**50**	**74**
85-01-8	**Phenanthrene**	**50**	**710**
120-12-7	**Anthracene**	**50**	**130**
206-44-0	**Fluoranthene**	**50**	**1,100**
129-00-0	**Pyrene**	**50**	**1,400**
56-55-3	**Benzo(a)anthracene**	**50**	**550**
218-01-9	**Chrysene**	**50**	**730**
205-99-2	**Benzo(b)fluoranthene**	**50**	**550**
207-08-9	**Benzo(k)fluoranthene**	**50**	**500**
50-32-8	**Benzo(a)pyrene**	**50**	**590**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**50**	**370**
53-70-3	**Dibenz(a,h)anthracene**	**50**	**100**
191-24-2	**Benzo(g,h,i)perylene**	**50**	**470**
198-55-0	**Perylene**	**50**	**330**
92-52-4	Biphenyl	50	< 50 U
581-42-0	**2,6-Dimethylnaphthalene**	**50**	**54**
832-69-9	1-Methylphenanthrene	99	< 99 Y
192-97-2	**Benzo(e)pyrene**	**50**	**390**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**50**	**120**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.3%
d14-Dibenzo(a,h)anthracen	65.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060901.b/jt82cdl.d
Lab Smp Id: JT82CDL Client Smp ID: T4-S3-02-G
Inj Date : 01-SEP-2006 12:19
Operator : VTS Inst ID: nt1.i
Smp Info : JT82C,10
Misc Info : 06-15217
Comment : 1ul Injection
Method : /chem3/nt1.i/20060901.b/simpna.m
Meth Date : 01-Sep-2006 13:32 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 6
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	16.10000	Weight of sample extracted (g)
M	37.30000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.825	6.824	(1.000)	451430	2.00000	
	2 Naphthalene	128	6.849	6.848	(1.003)	23493	0.10433	51.68
$	3 2-Methylnaphthalene-d10	152	7.582	7.581	(1.111)	20320	0.17476	86.56
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.710	8.710	(0.980)	12816	0.07019	34.77 J
*	8 Acenaphthene-d10	164	8.888	8.887	(1.000)	220222	2.00000	
	9 Acenaphthene	153	8.923	8.922	(1.004)	36232	0.33507	166.0
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.538	9.537	(1.073)	18590	0.14993	74.26
*	15 Phenanthrene-d10	188	10.696	10.695	(1.000)	290112	2.00000	
	16 Phenanthrene	178	10.726	10.725	(1.003)	213925	1.43661	711.6
	17 Anthracene	178	10.779	10.784	(1.008)	39094	0.26271	130.1
	19 Fluoranthene	202	12.221	12.214	(1.143)	340887	2.24439	1112

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.505	12.504	(0.893)	395757	2.83692	1405
	22 Benzo(a)anthracene	228	13.988	13.981	(0.999)	146253	1.11793	553.7
*	23 Chrysene-d12	240	14.006	14.005	(1.000)	217250	2.00000	
	24 Chrysene	228	14.036	14.034	(1.002)	177452	1.47059	728.4
	28 Benzo(b)fluoranthene	252	15.365	15.364	(0.964)	151114	1.11097	550.3
	29 Benzo(k)fluoranthene	252	15.389	15.394	(0.966)	148555	1.02444	507.4
	30 Benzo(a)pyrene	252	15.850	15.843	(0.995)	159189	1.20108	594.9
*	31 Perylene-d12	264	15.933	15.926	(1.000)	241010	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.853	17.847	(1.121)	113590	0.74525	369.1
$	32 Dibenz(a,h)anthrancene-d14	292	17.777	17.776	(1.116)	18160	0.19689	97.52
	34 Dibenz(a,h)anthracene	278	17.842	17.841	(1.120)	25593	0.20554	101.8(M)
	35 Benzo(g,h,i)perylene	276	18.427	18.420	(1.157)	120792	0.95337	472.2
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.356	8.349	(0.940)	11574	0.10800	53.49
	50 2,3,5-Trimethylnaphthalene	170	9.367	9.377	(1.054)	22370	0.25485	126.2
	51 1-Methylphenanthrene	192	11.470	11.499	(0.819)	17523	0.19705	97.60(M)
	52 Benzo(e)pyrene	252	15.773	15.766	(0.990)	115910	0.79006	391.3
	53 Perylene	252	15.968	15.967	(1.002)	92328	0.67026	332.0

QC Flag Legend

M - Compound response manually integrated.

VQS
9-1-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82cdl.d
Lab Smp Id: JT82CDL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060901.b/simpna.m
Misc Info: 06-15217

Calibration Date: 01-SEP-2006
Calibration Time: 11:30
Client Smp ID: T4-S3-02-G
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	410913	205456	821826	451430	9.86
8 Acenaphthene-d10	204164	102082	408328	220222	7.87
15 Phenanthrene-d10	267547	133774	535094	290112	8.43
23 Chrysene-d12	200701	100350	401402	217250	8.25
31 Perylene-d12	204542	102271	409084	241010	17.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.01
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.01
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.01
23 Chrysene-d12	14.00	13.50	14.50	14.01	0.01
31 Perylene-d12	15.93	15.43	16.43	15.93	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

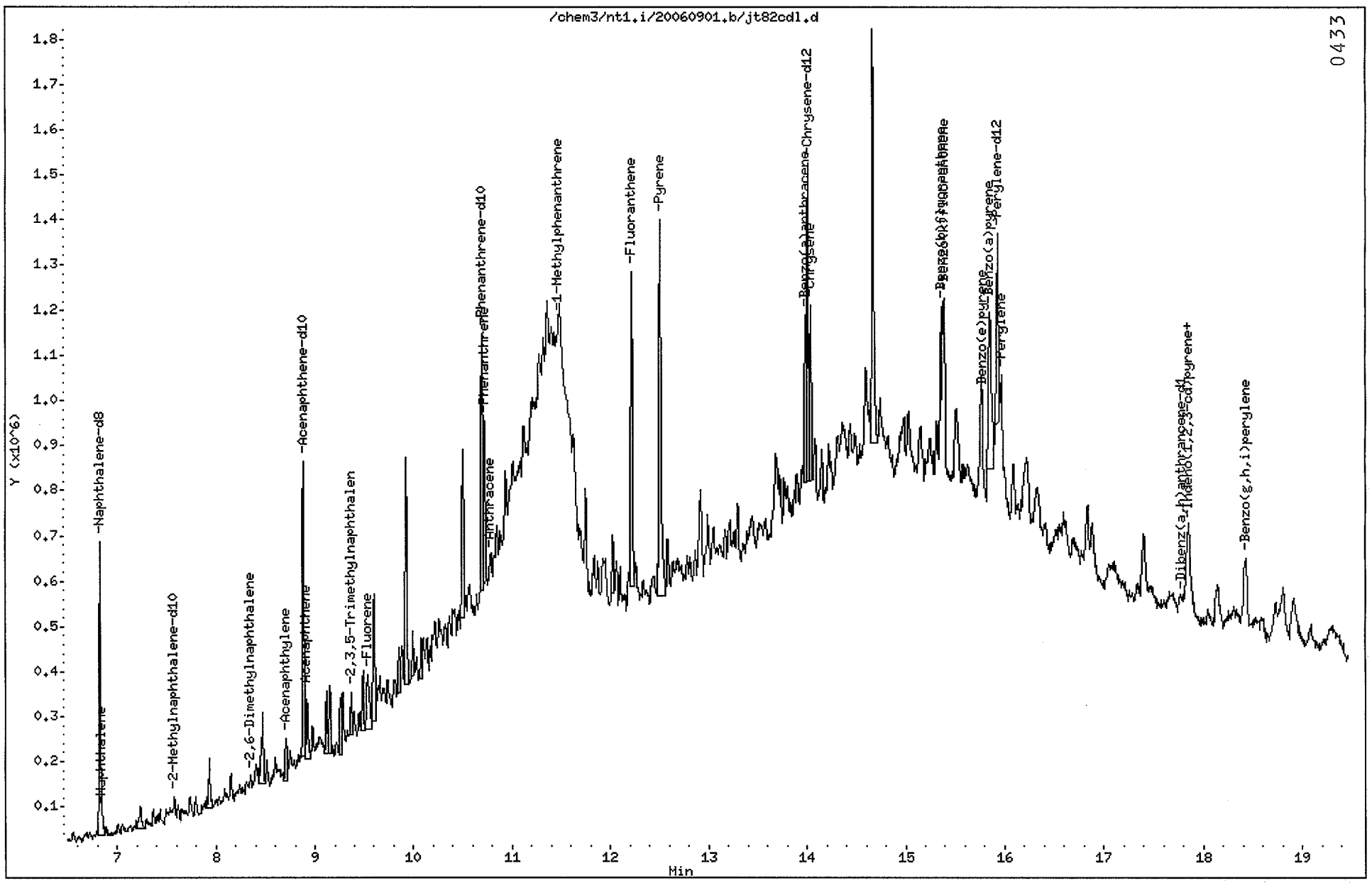
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82CDL
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060901.b/simpna.m
Misc Info: 06-15217

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-G
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.6	86.56	58.25	32-97
$ 32 Dibenz(a,h)anthran	148.6	97.52	65.63	21-105

Data File: /chem3/nt1.i/20060901.b/jt82cd1.d
Date : 01-SEP-2006 12:19
Client ID: T4-S3-02-G
Sample Info: JT82C,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

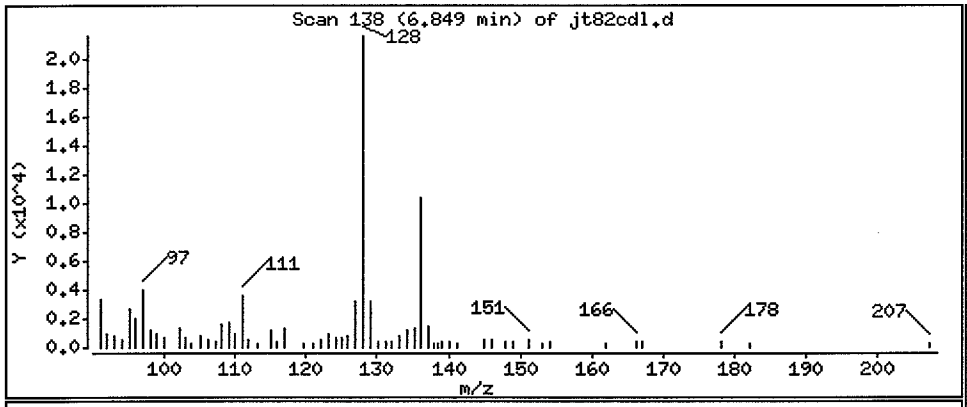
Operator: VTS

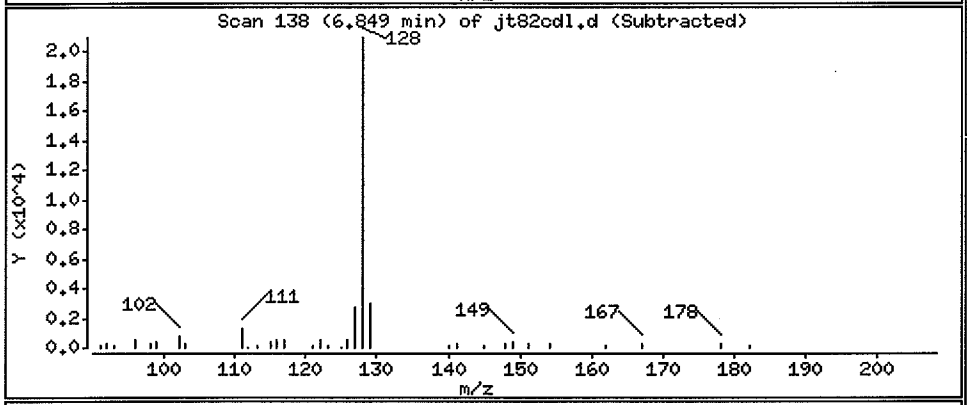
Column phase: ZB-5

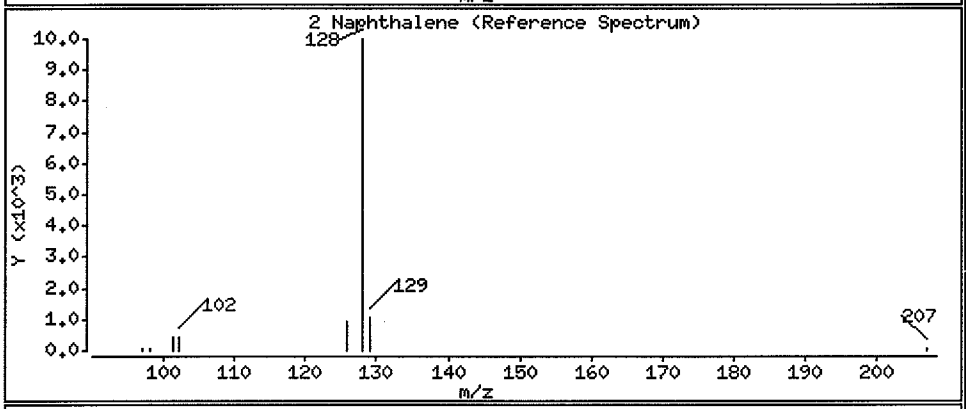
Column diameter: 0.25

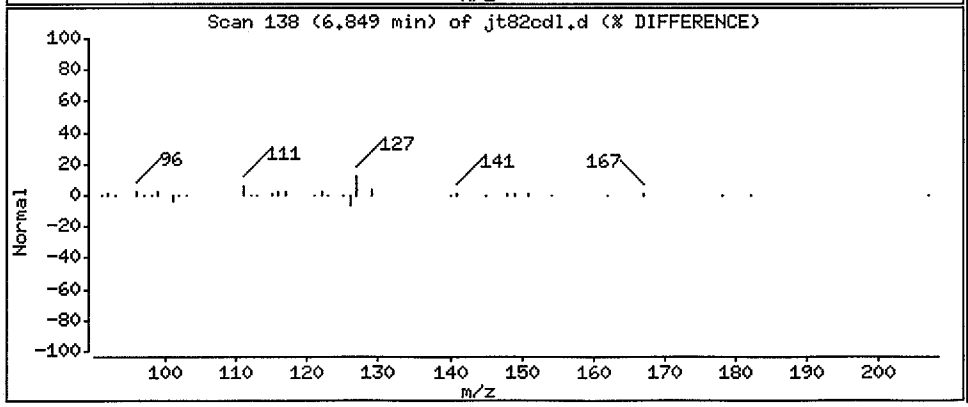
2 Naphthalene

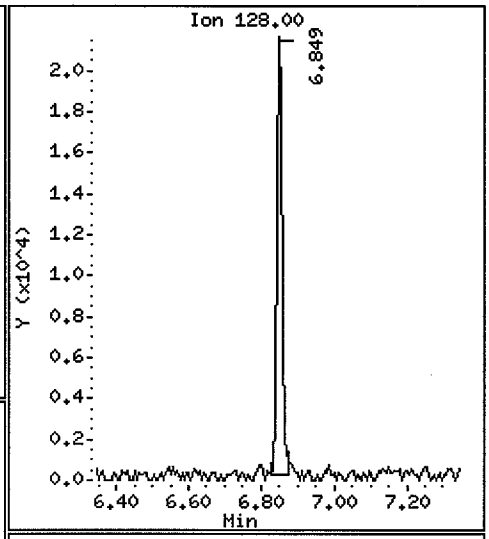
Concentration: 51.68 ug/kg

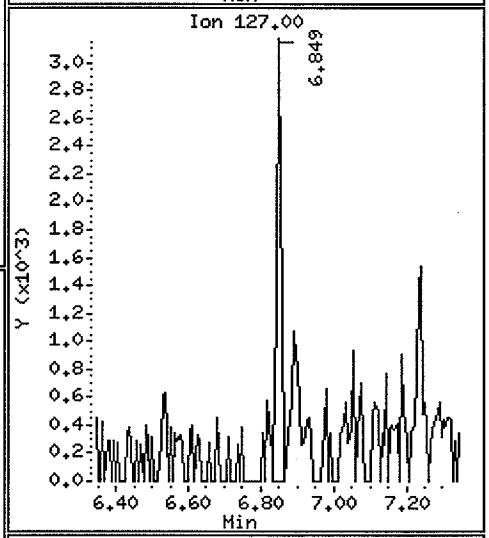


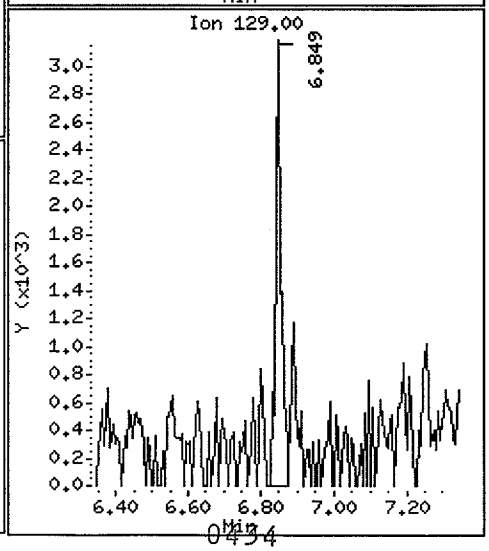












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

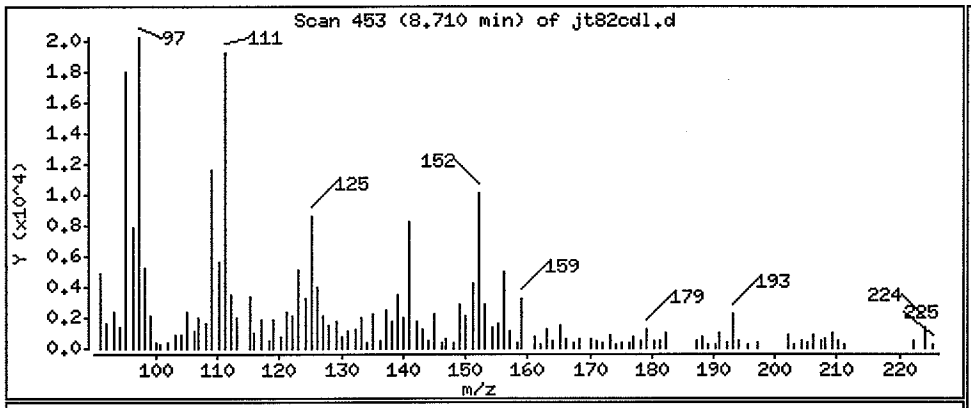
Operator: VTS

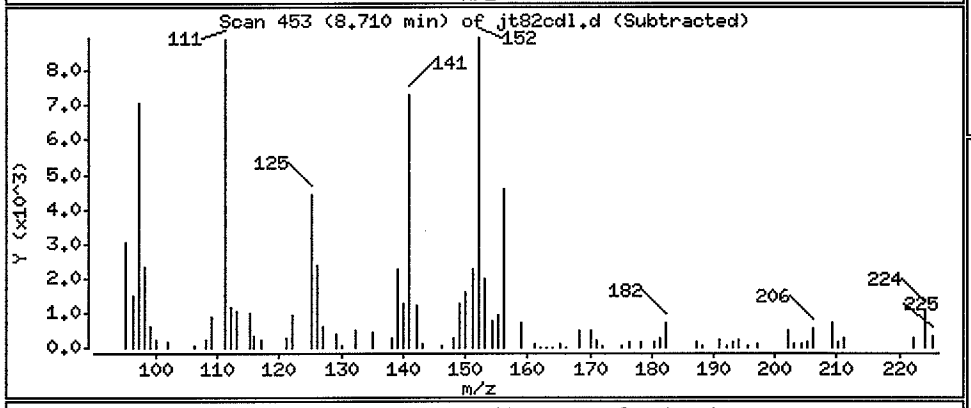
Column phase: ZB-5

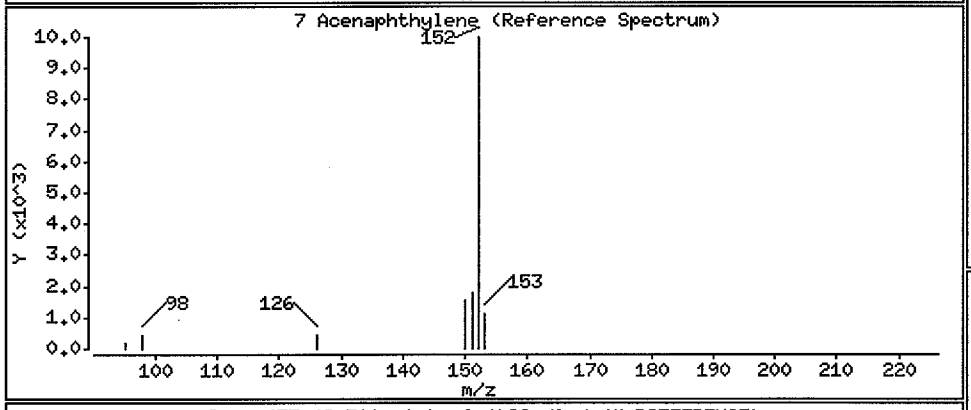
Column diameter: 0.25

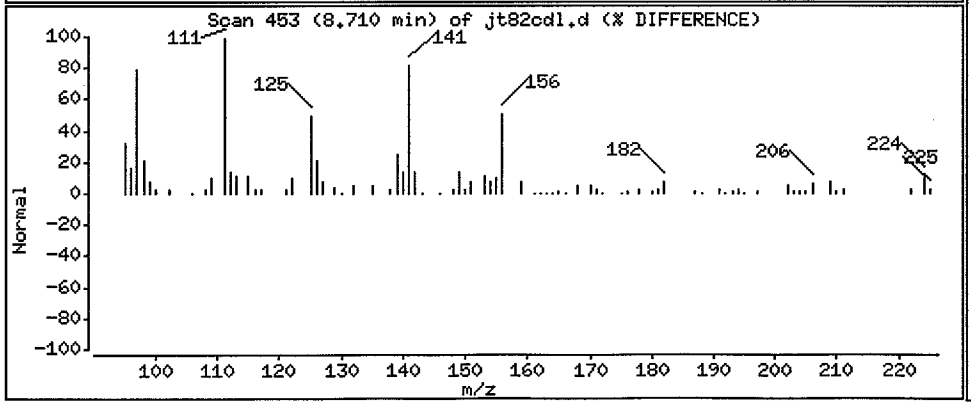
7 Acenaphthylene

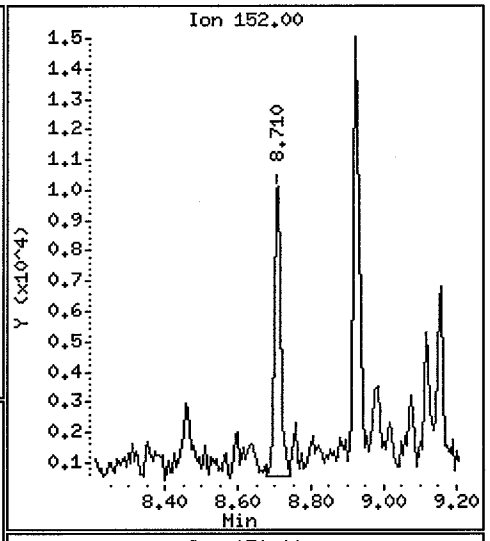
Concentration: 34.77 ug/kg

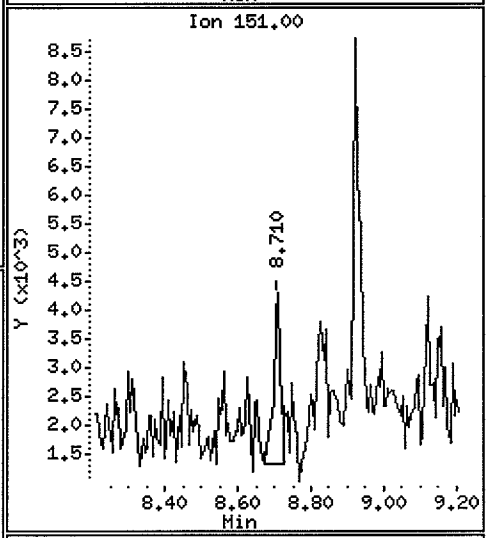


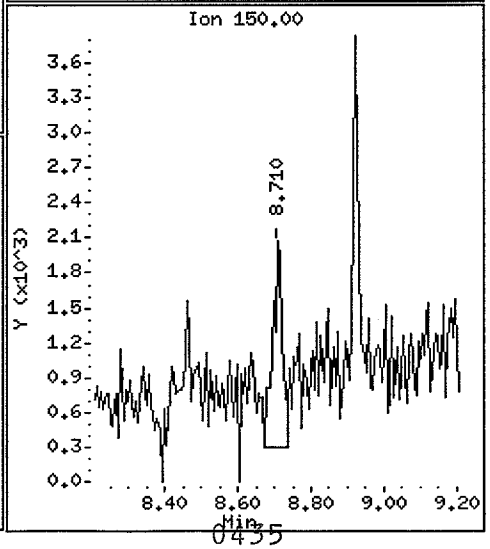












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

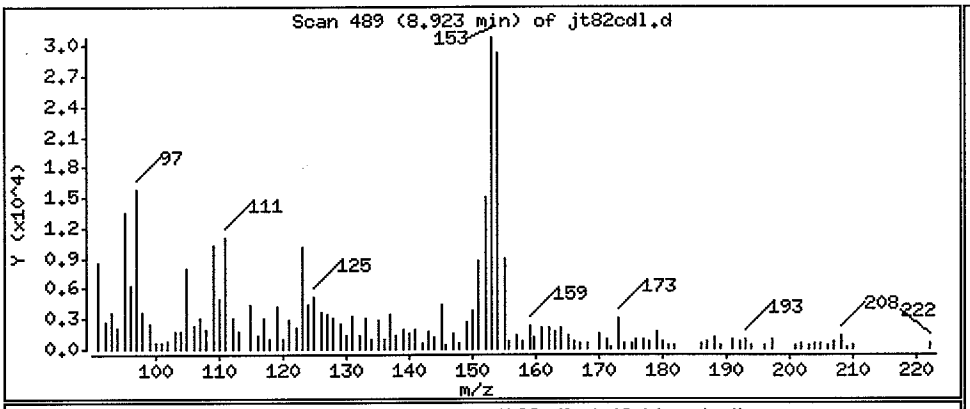
Operator: VTS

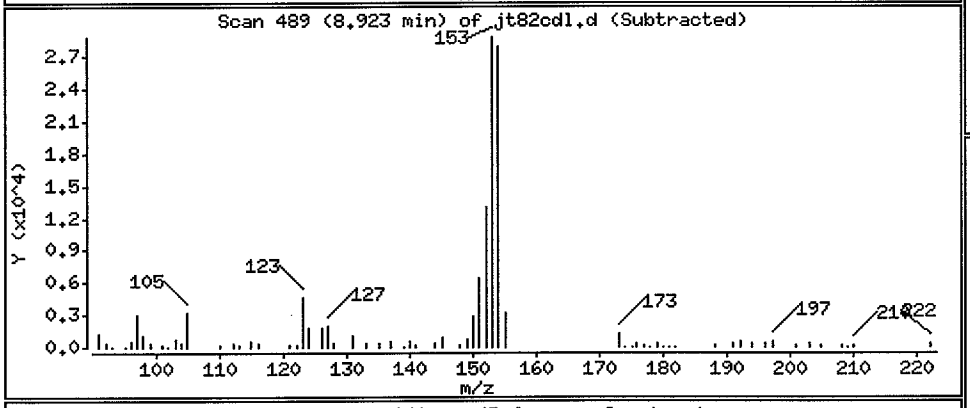
Column phase: ZB-5

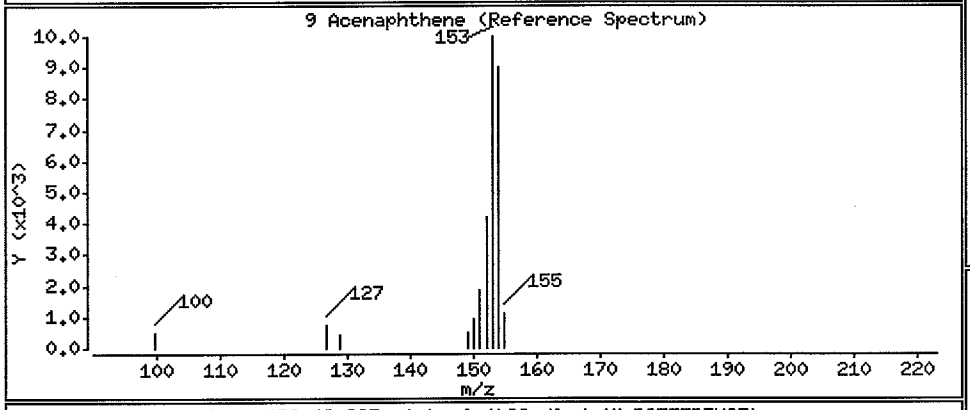
Column diameter: 0.25

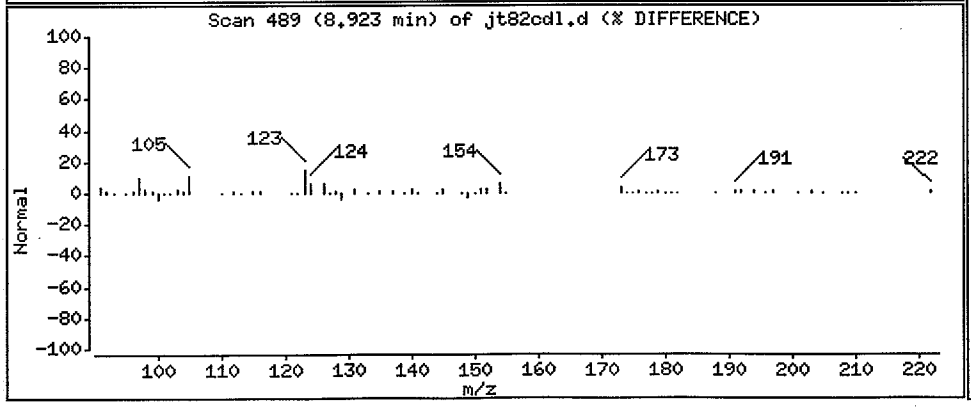
9 Acenaphthene

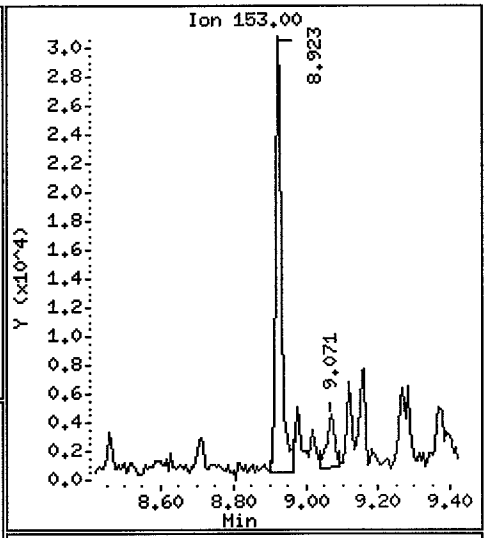
Concentration: 166.0 ug/kg

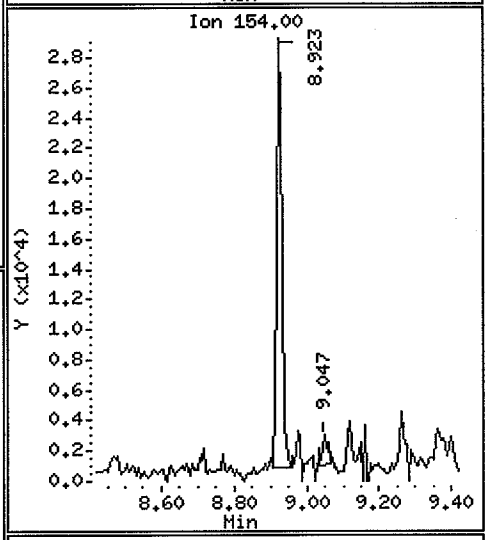


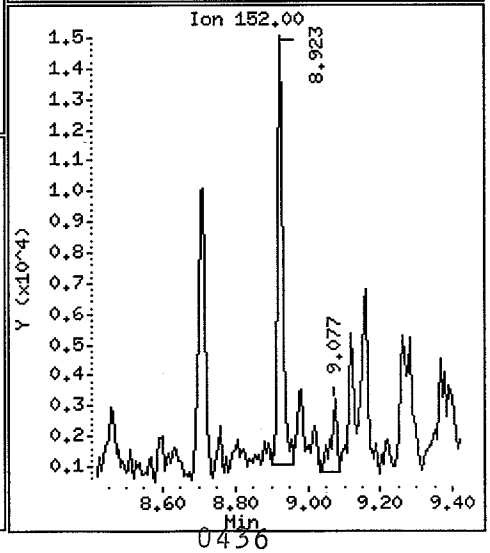












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

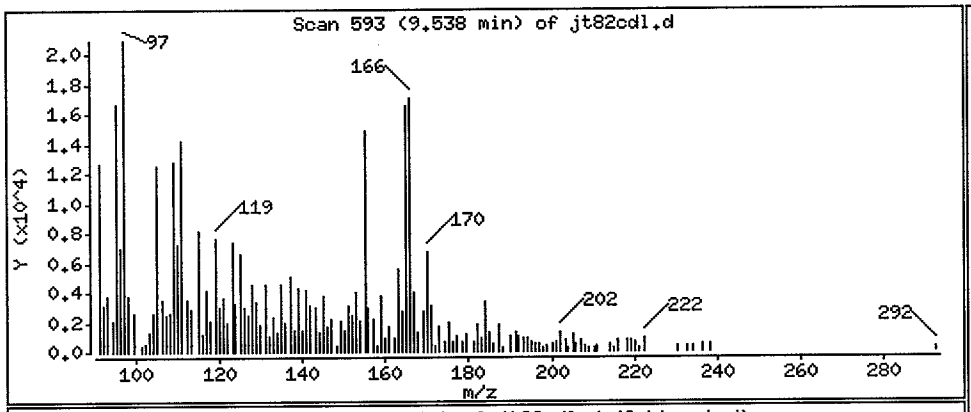
Operator: VTS

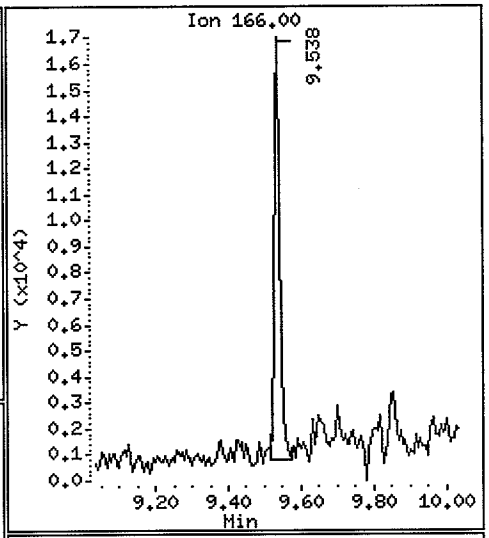
Column phase: ZB-5

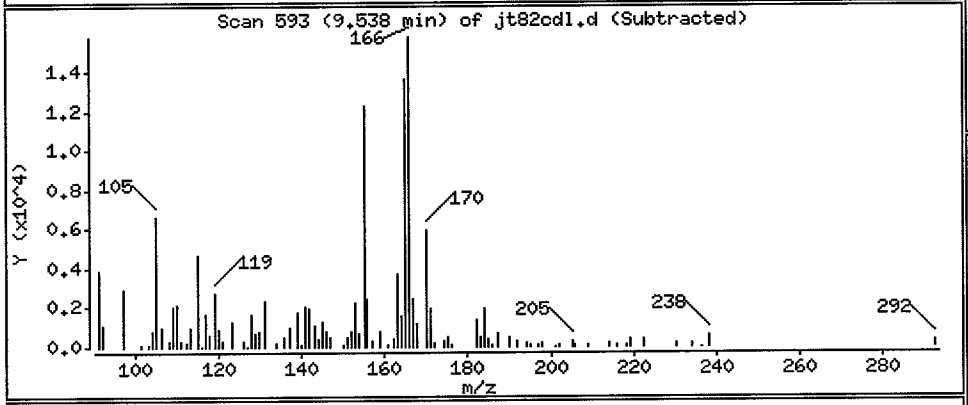
Column diameter: 0.25

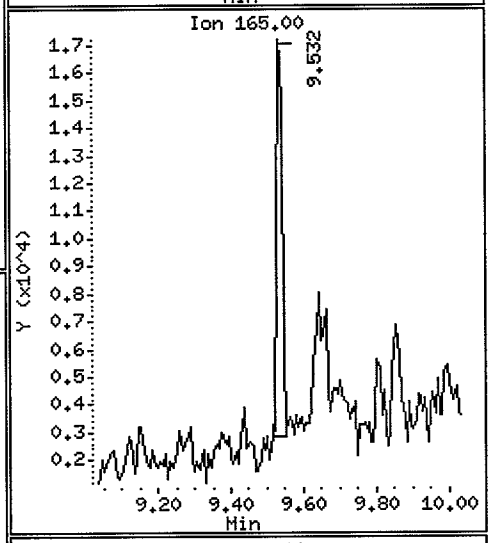
11 Fluorene

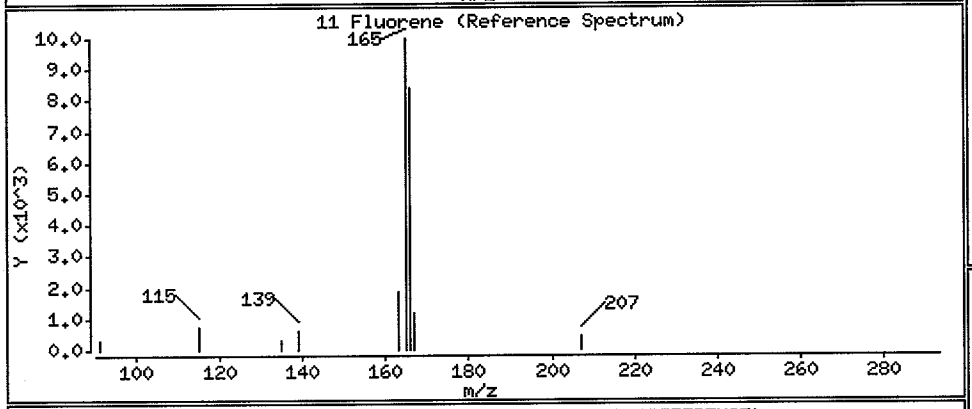
Concentration: 74.26 ug/kg

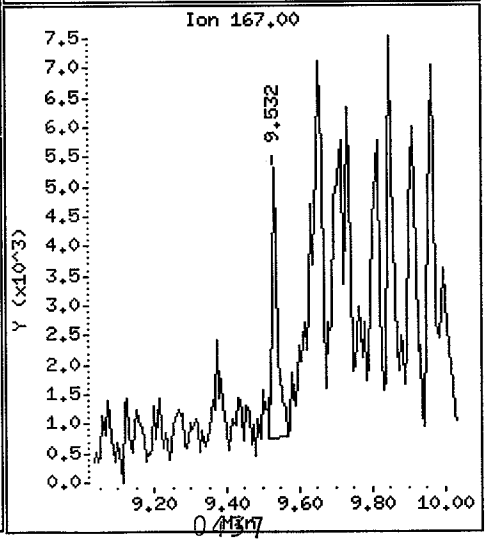


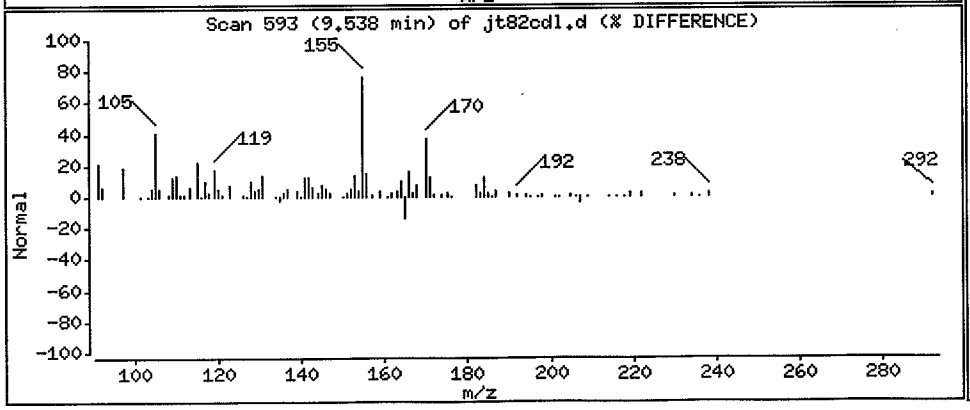












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

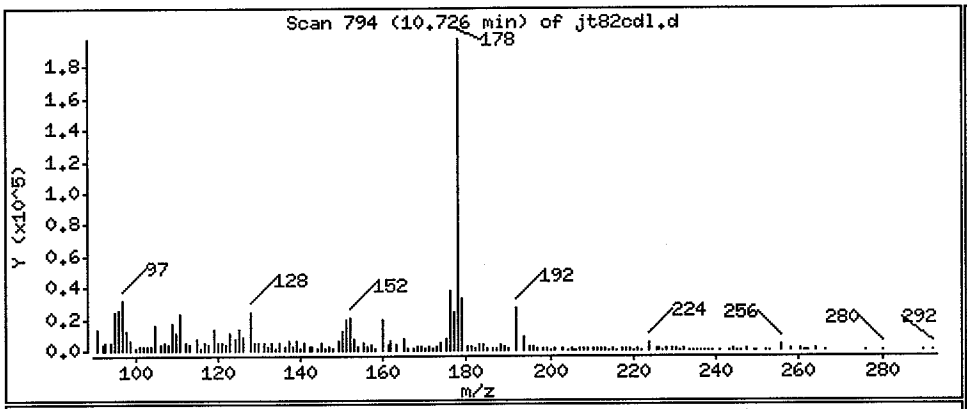
Operator: VTS

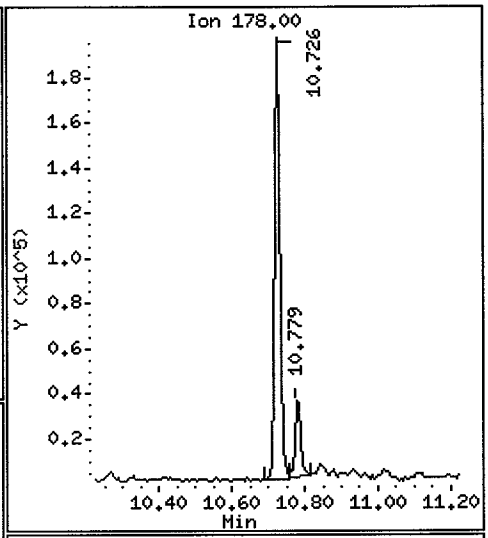
Column phase: ZB-5

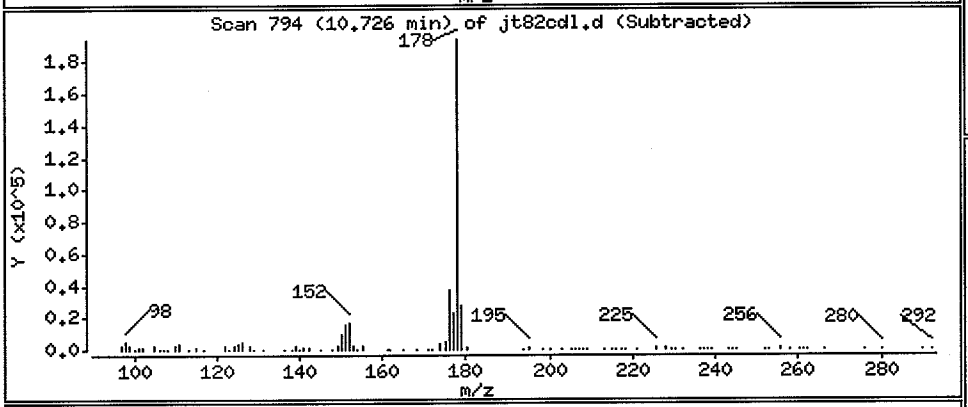
Column diameter: 0.25

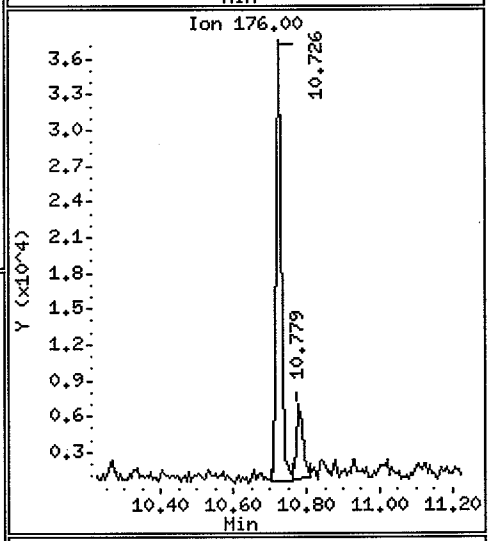
16 Phenanthrene

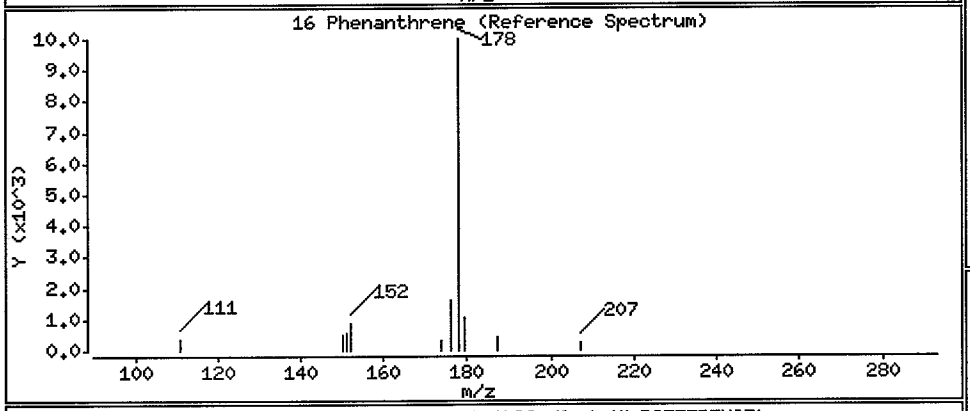
Concentration: 711.6 ug/kg

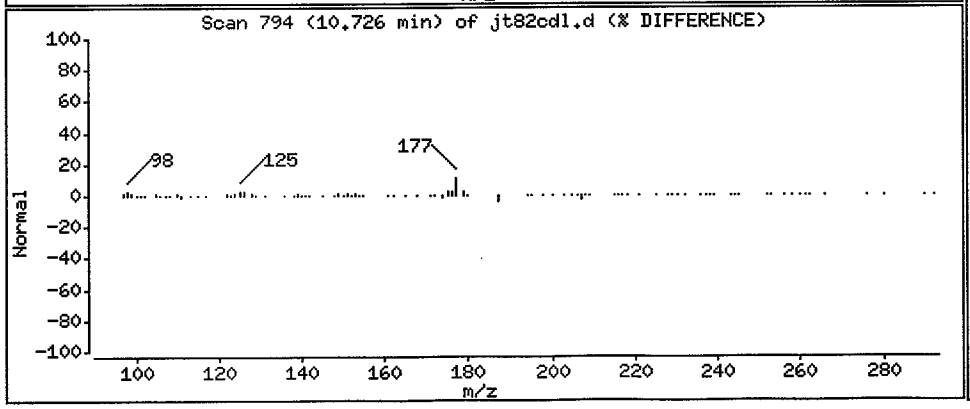


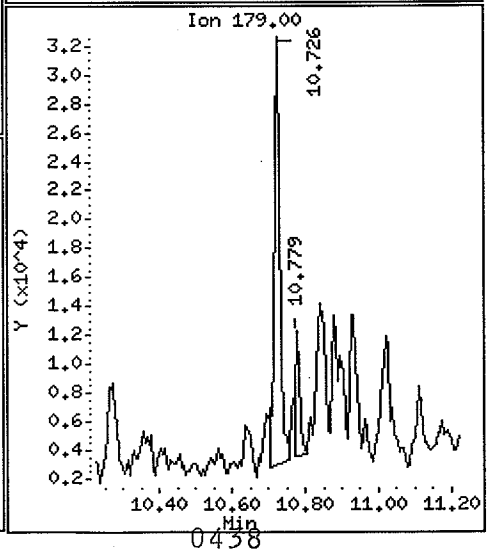












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

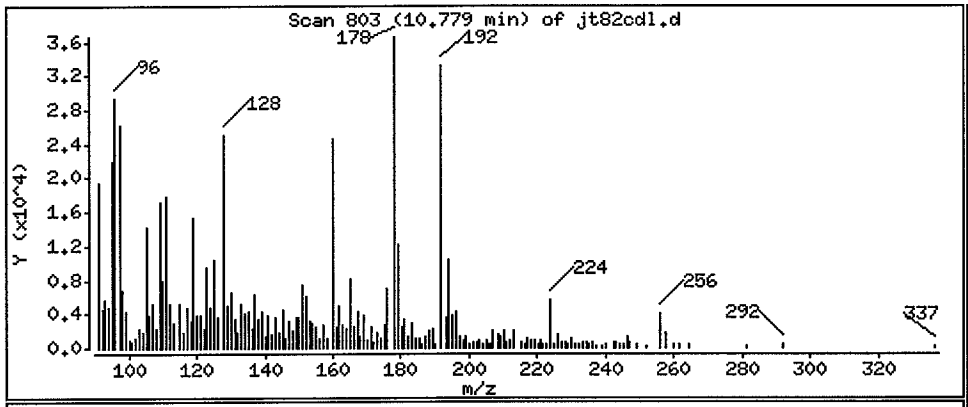
Operator: VTS

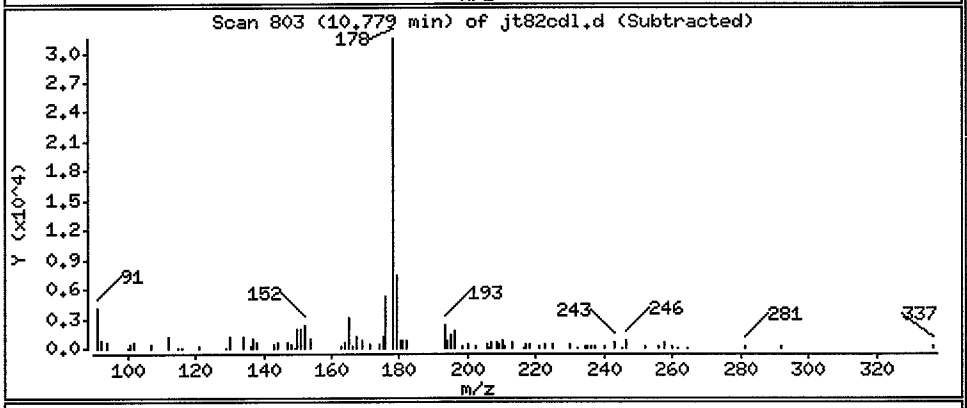
Column phase: ZB-5

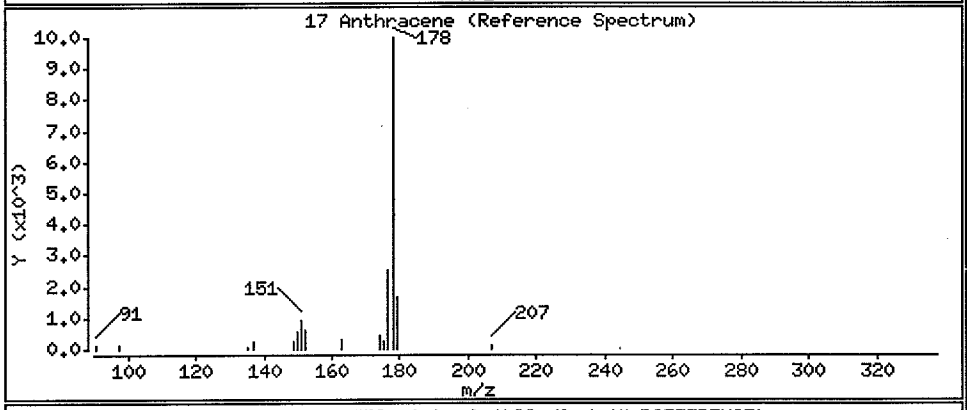
Column diameter: 0.25

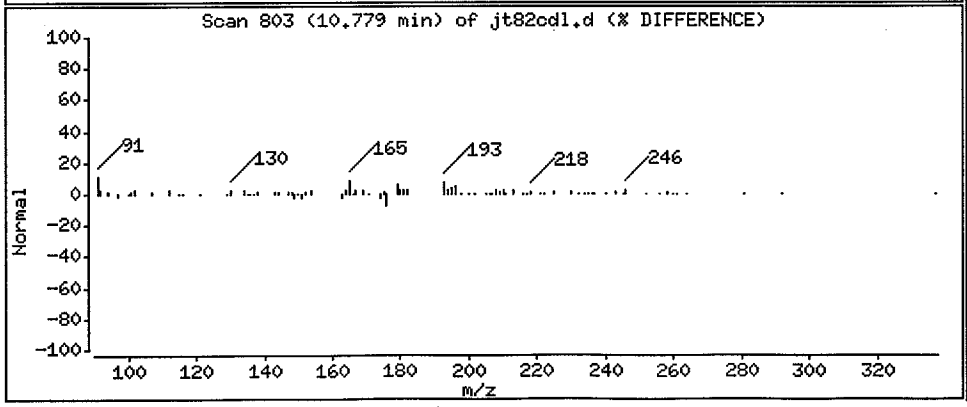
17 Anthracene

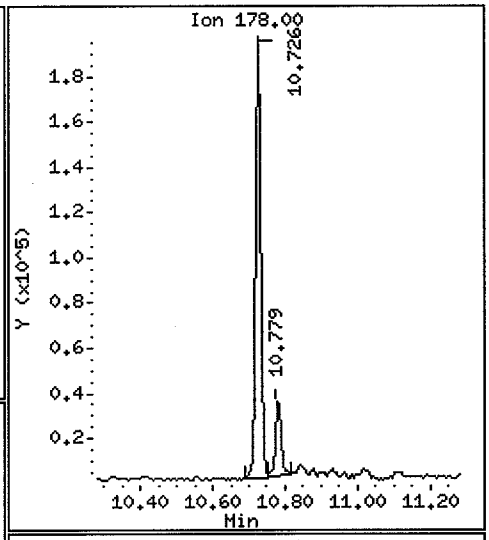
Concentration: 130.1 ug/kg

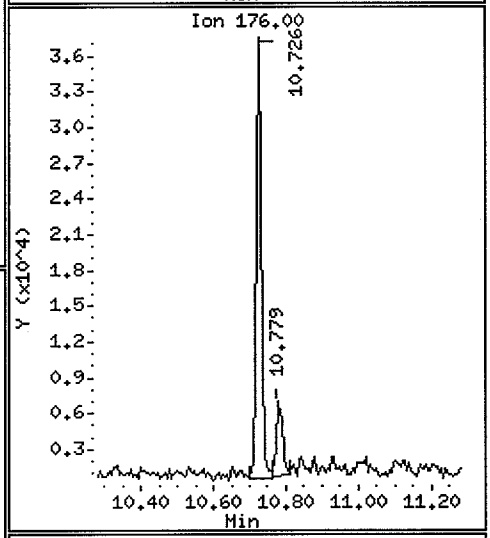


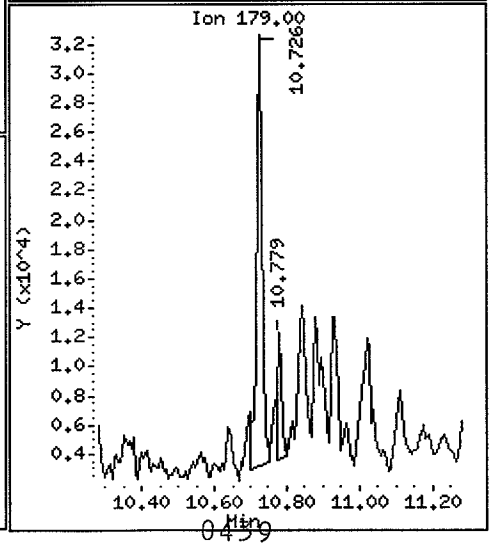












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

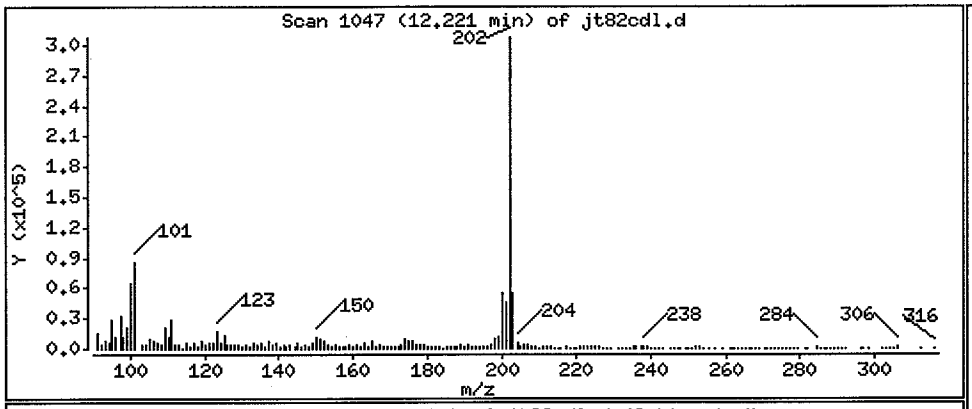
Operator: VTS

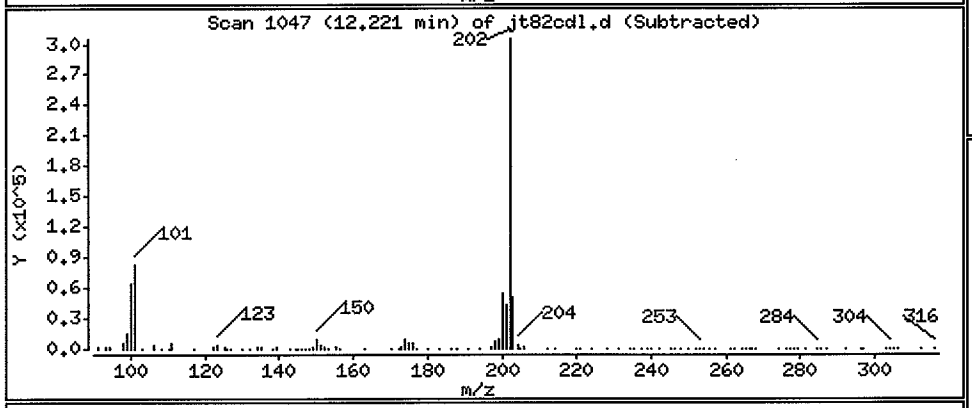
Column phase: ZB-5

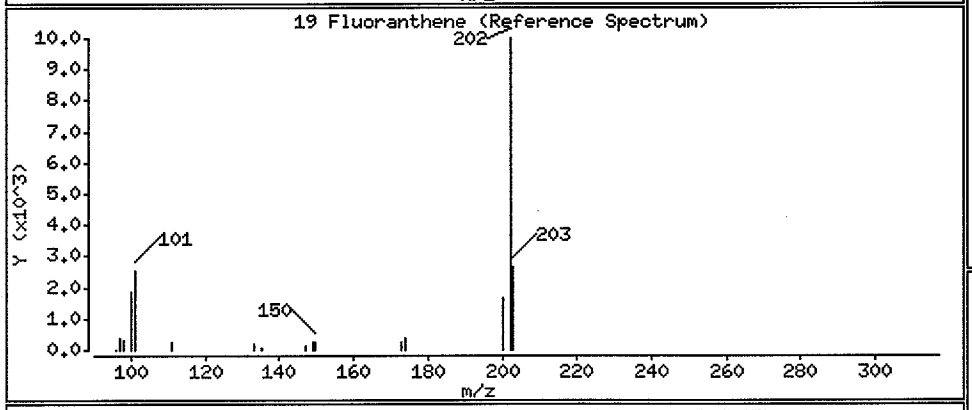
Column diameter: 0.25

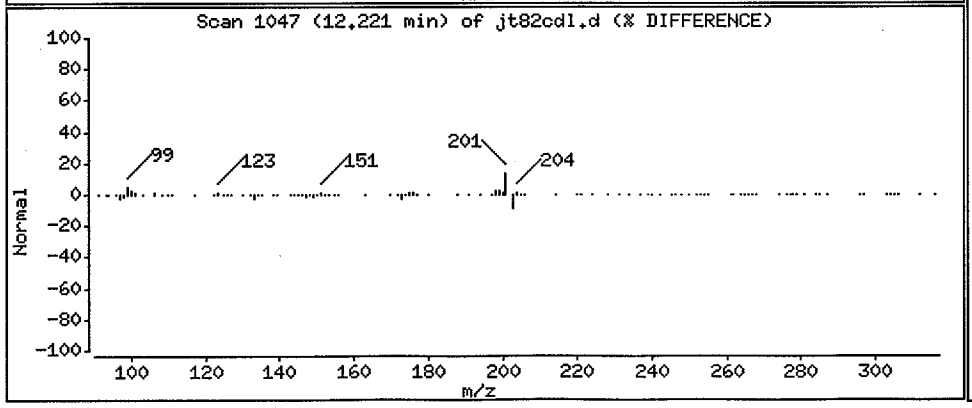
19 Fluoranthene

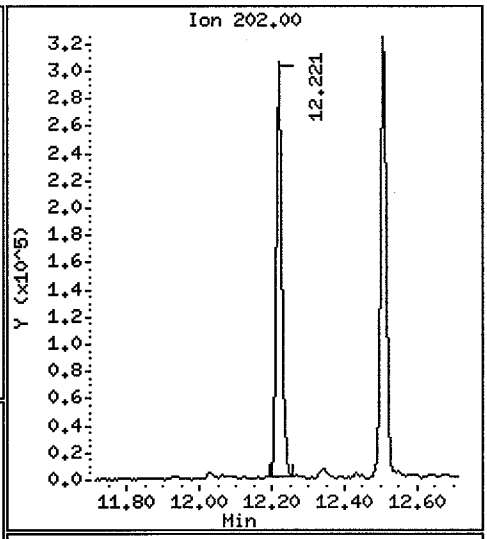
Concentration: 1112 ug/kg

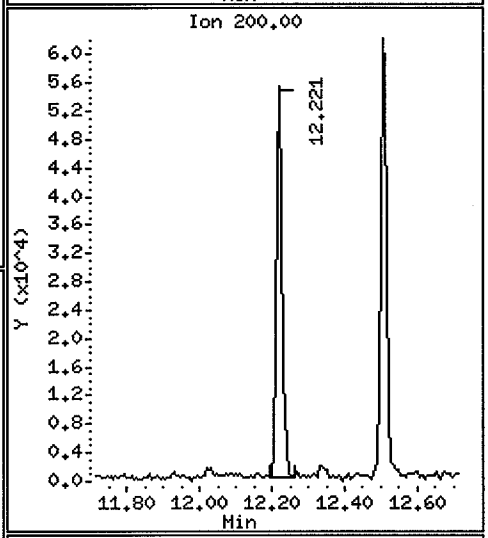


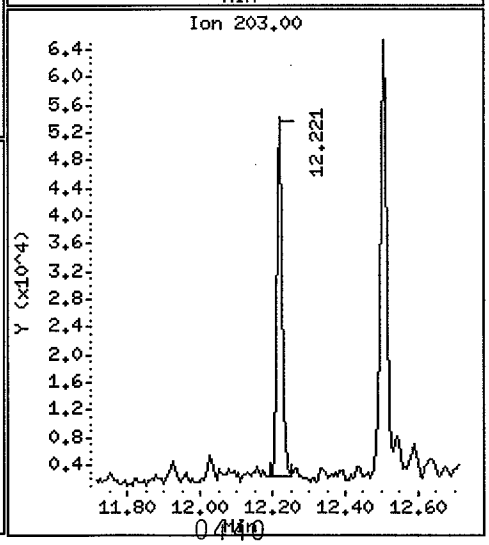












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

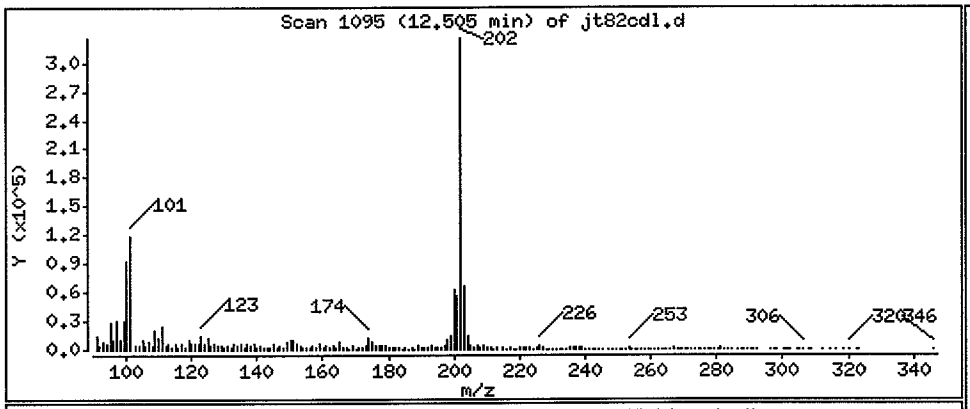
Operator: VTS

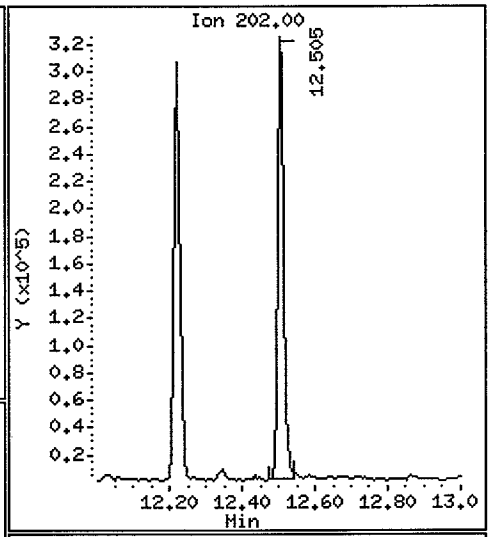
Column phase: ZB-5

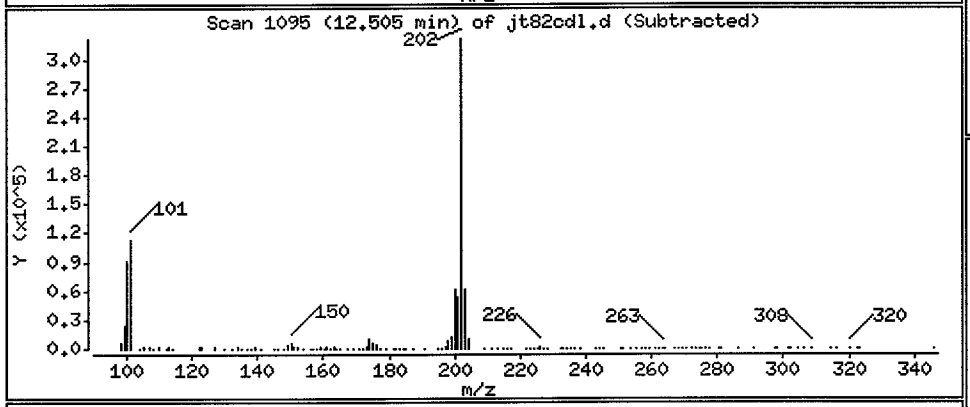
Column diameter: 0.25

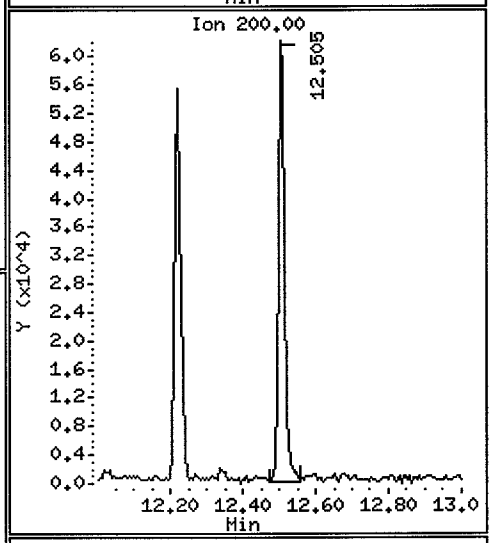
20 Pyrene

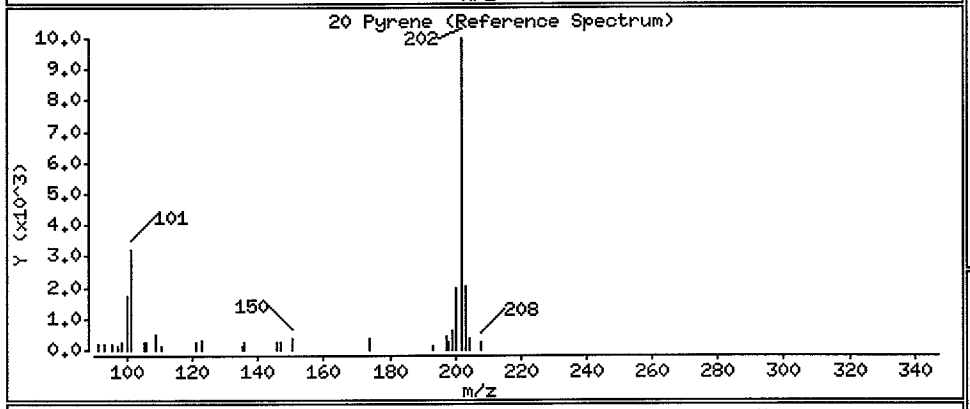
Concentration: 1405 ug/kg

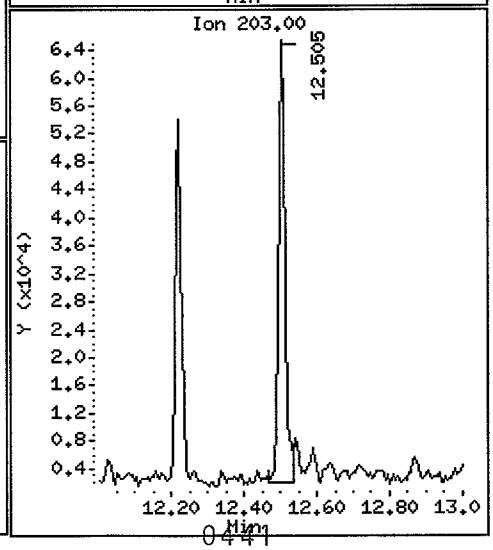


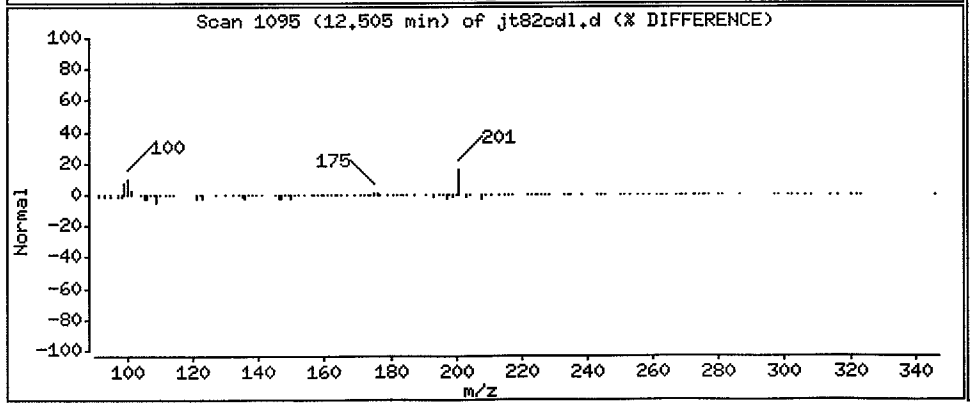












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

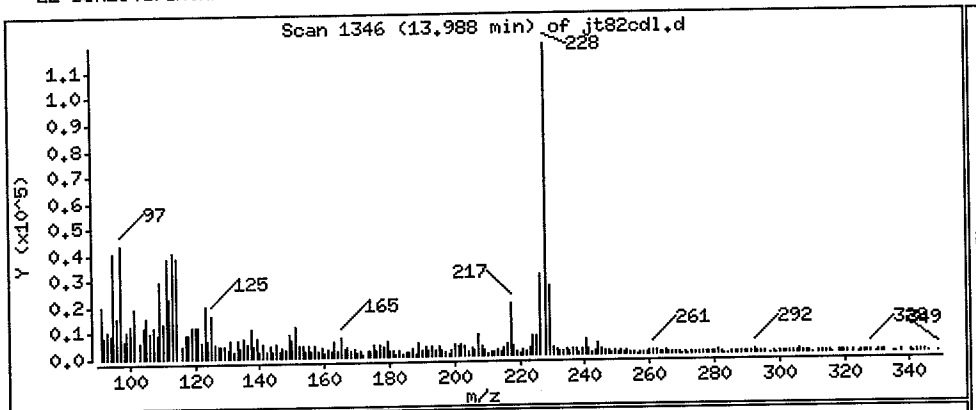
Operator: VTS

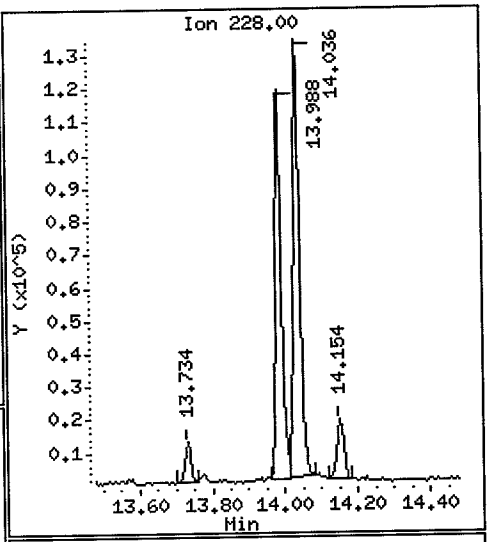
Column phase: ZB-5

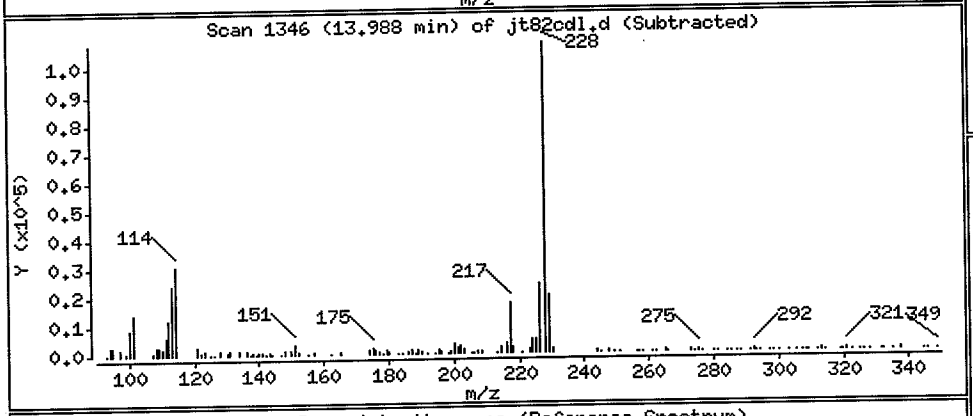
Column diameter: 0.25

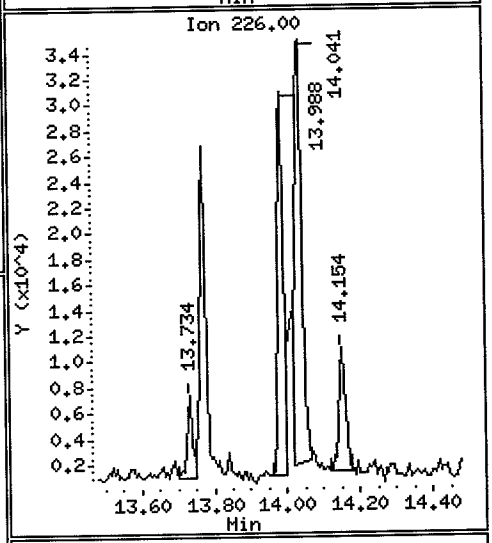
22 Benzo(a)anthracene

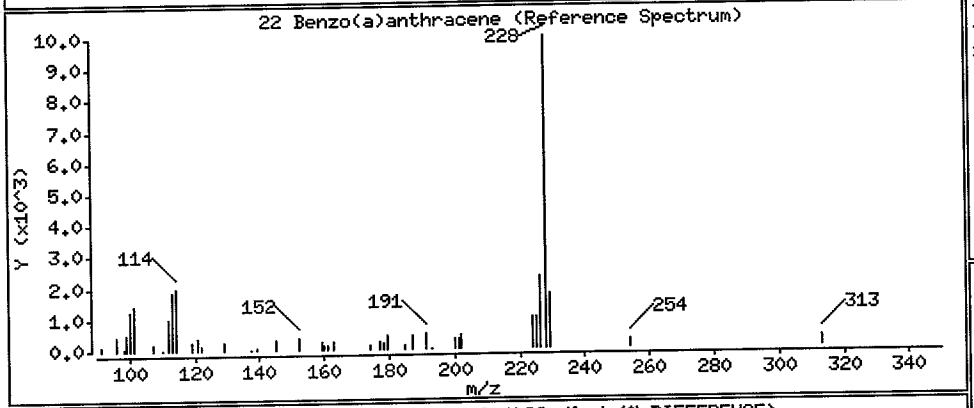
Concentration: 553.7 ug/kg

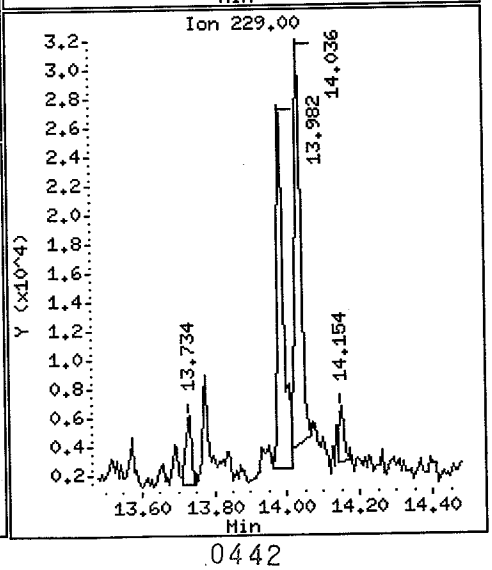


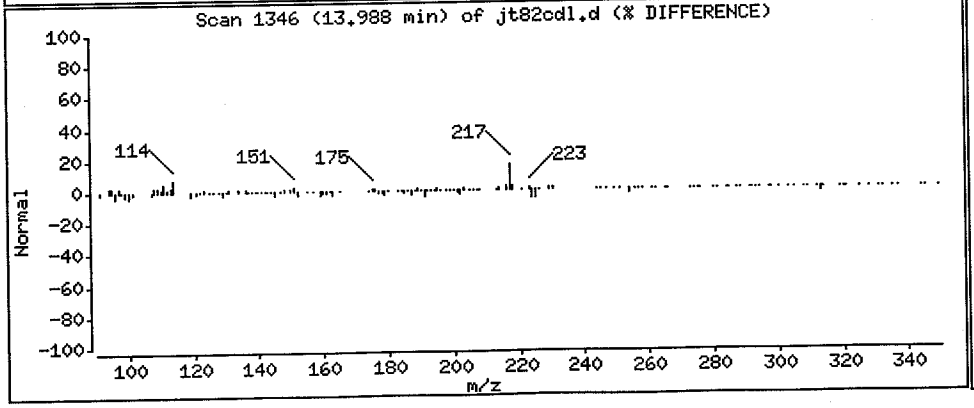












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

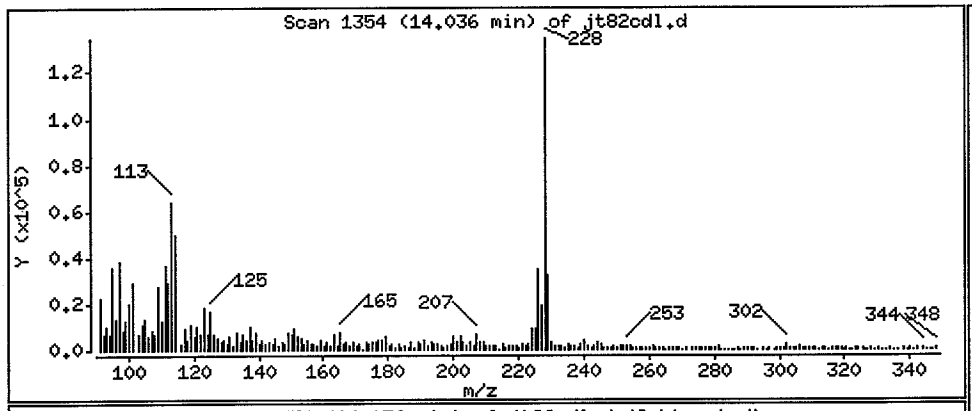
Operator: VTS

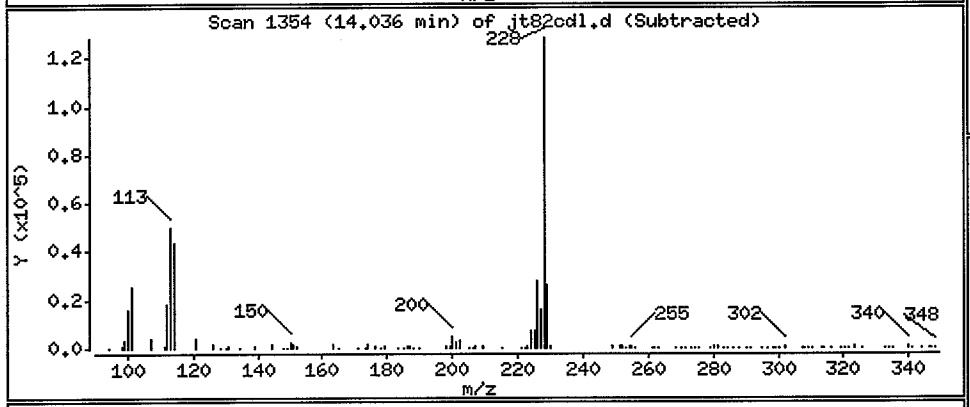
Column phase: ZB-5

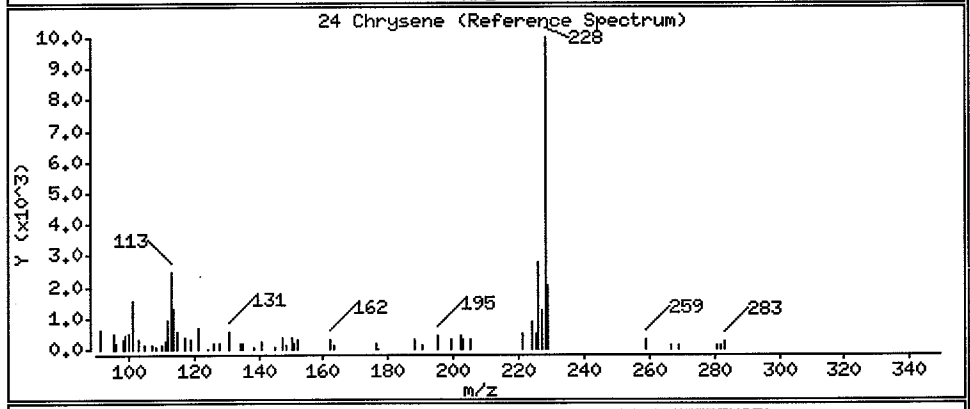
Column diameter: 0.25

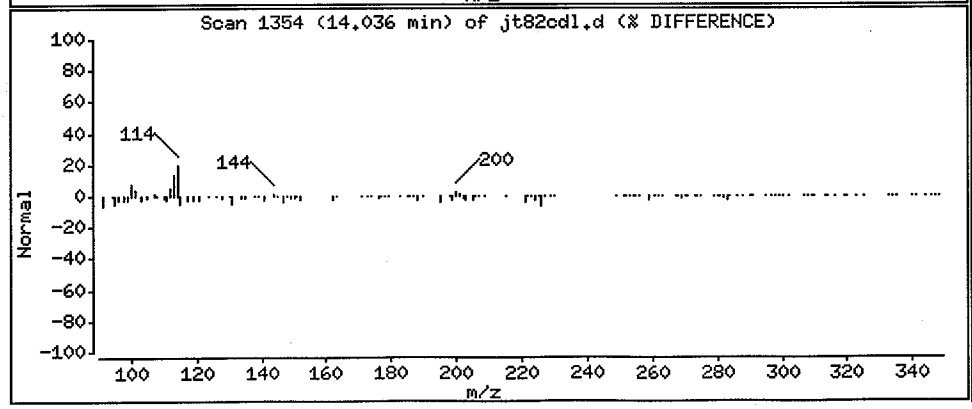
24 Chrysene

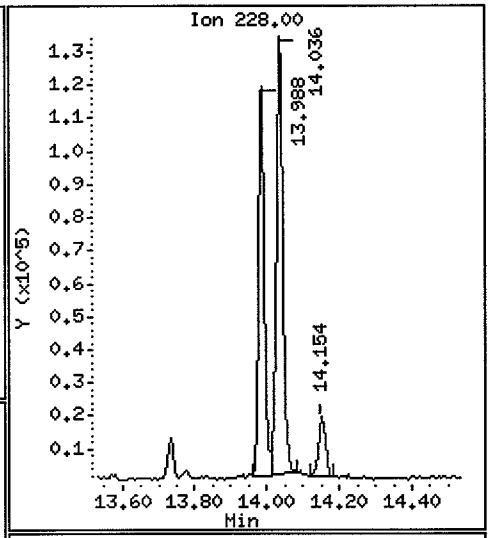
Concentration: 728.4 ug/kg

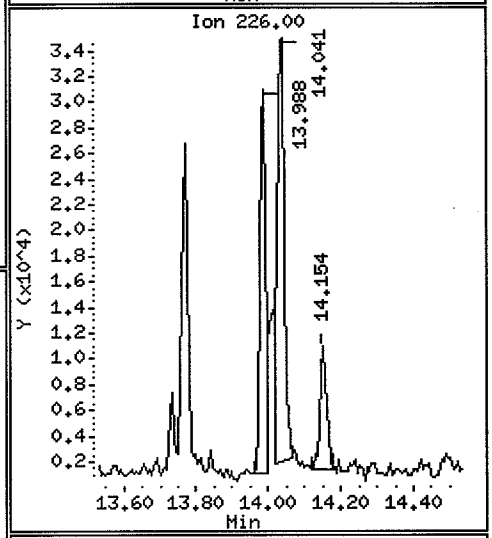


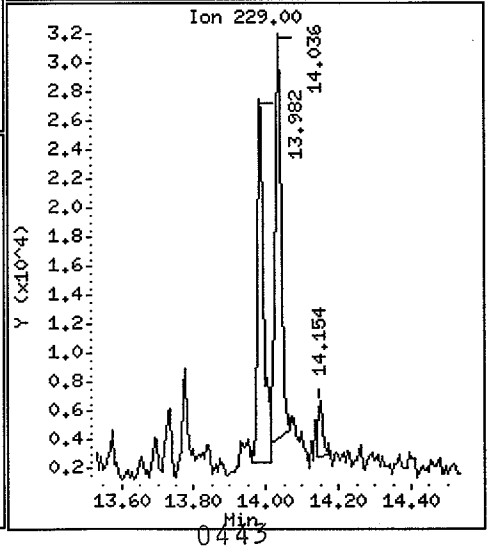












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

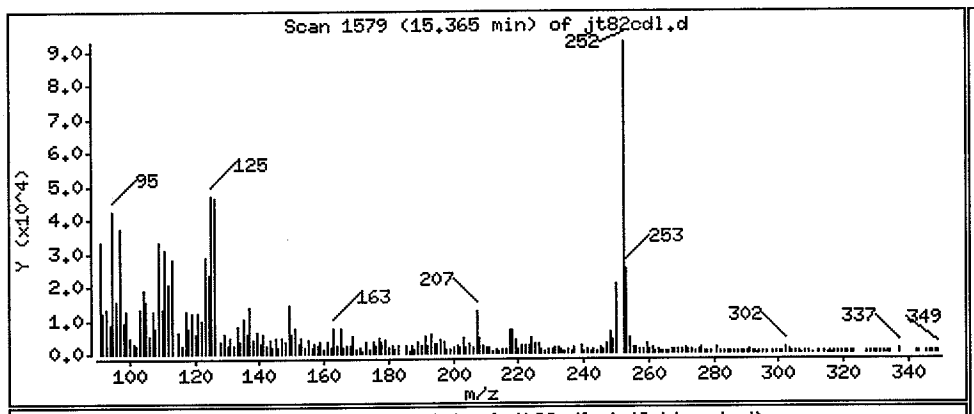
Operator: VTS

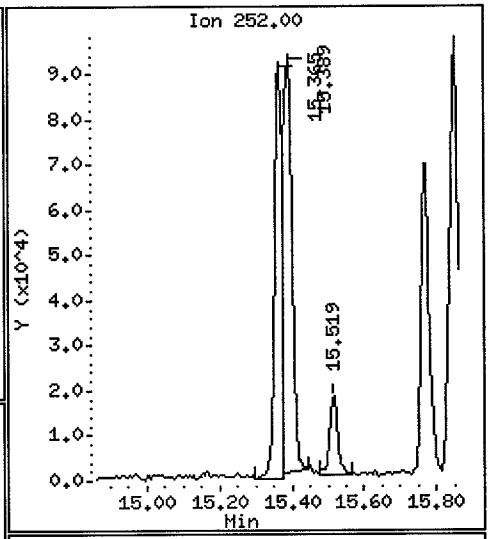
Column phase: ZB-5

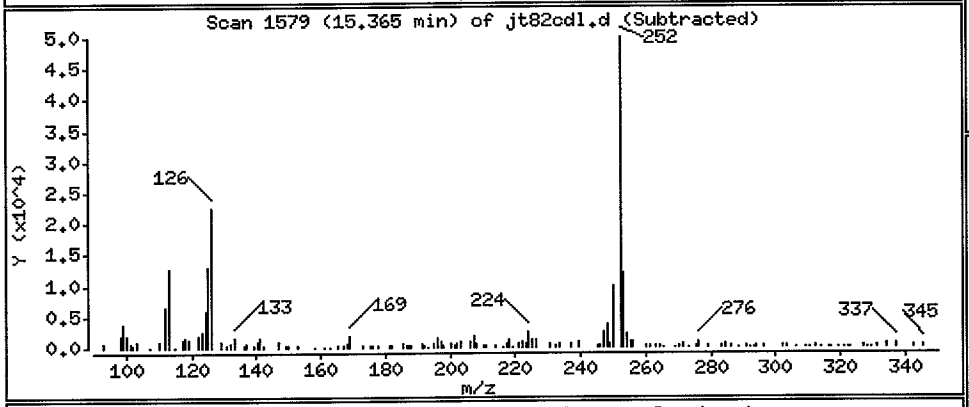
Column diameter: 0.25

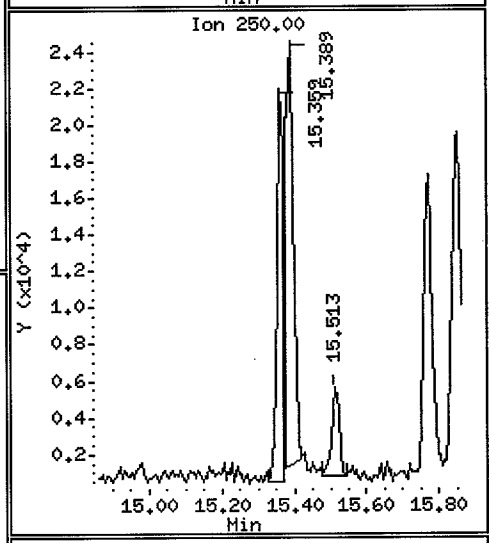
28 Benzo(b)fluoranthene

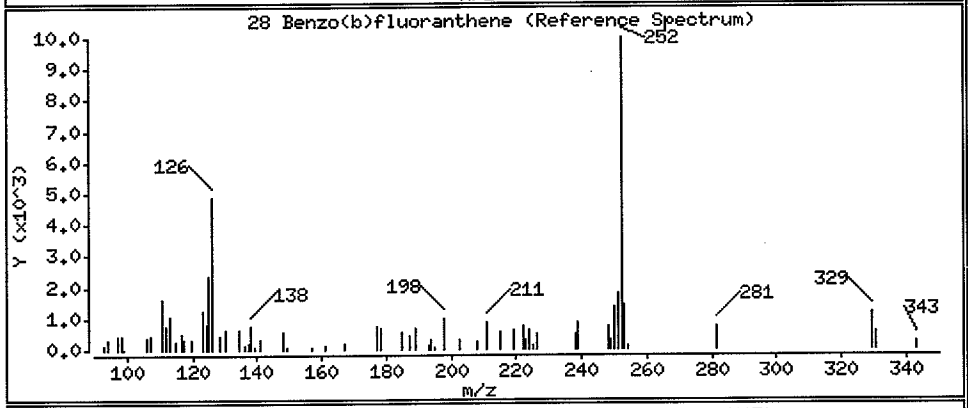
Concentration: 550.3 ug/kg

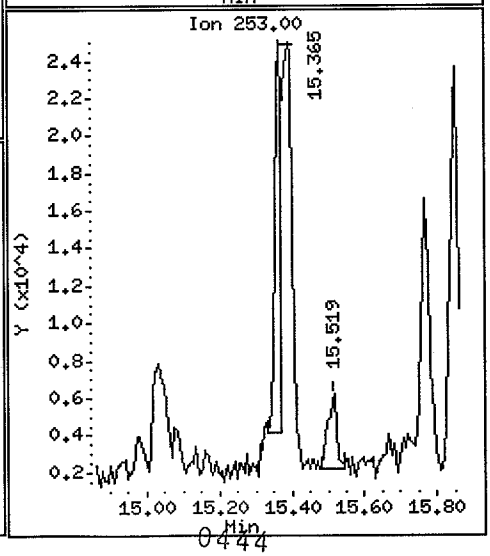


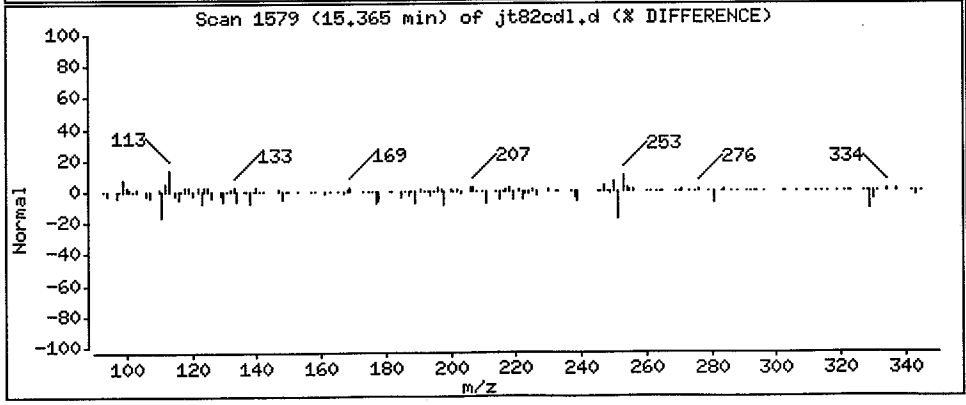












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Sample Info: JT82C,10

Volume Injected (uL): 1.0

Column phase: ZB-5

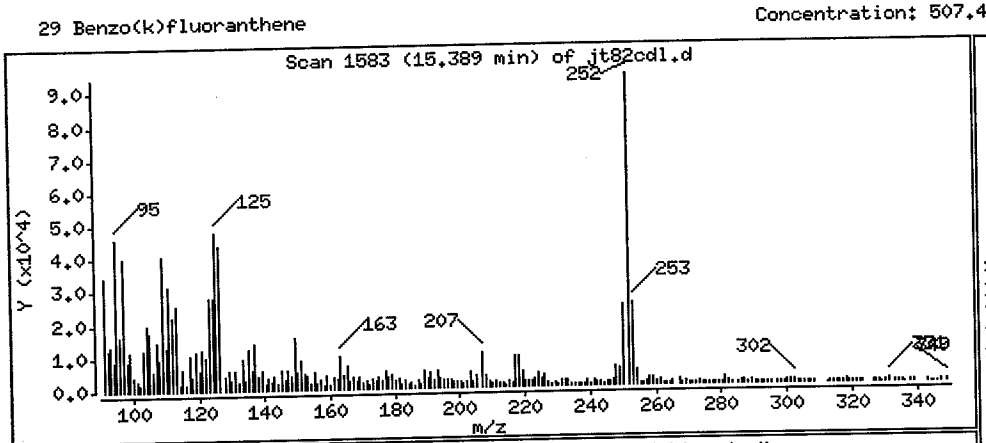
Instrument: nt1.i

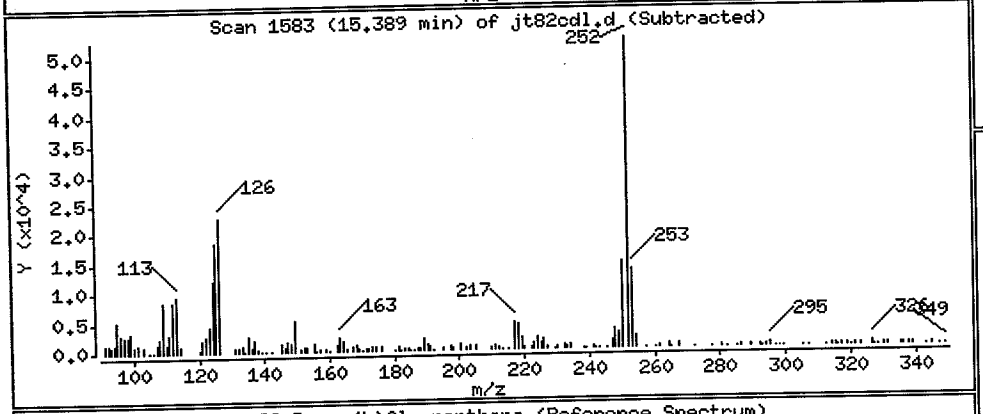
Operator: VTS

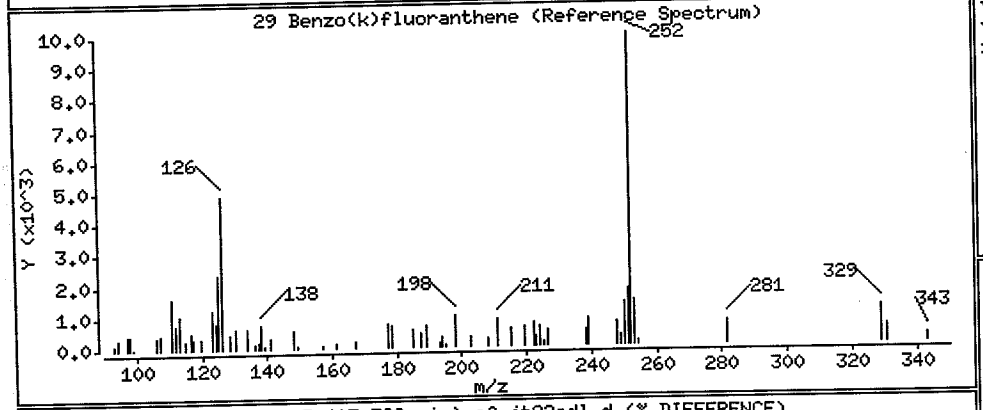
Column diameter: 0.25

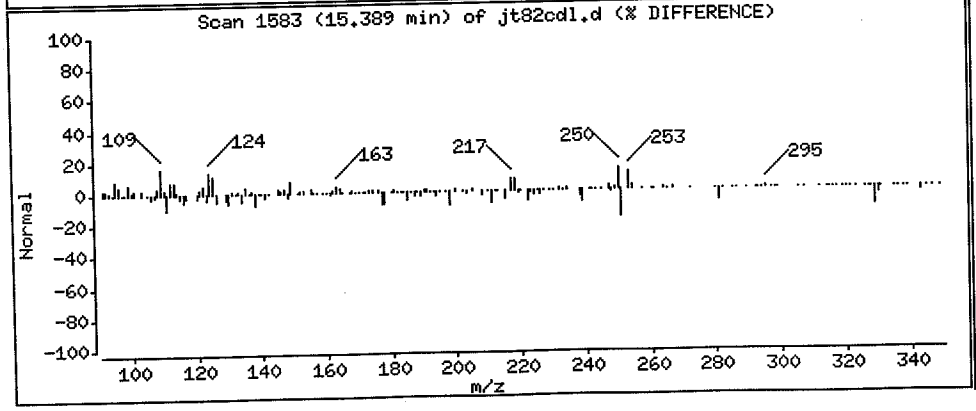
Concentration: 507.4 ug/kg

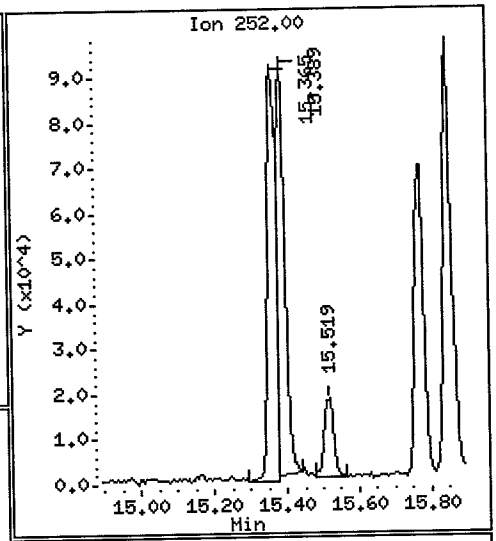
29 Benzo(k)fluoranthene

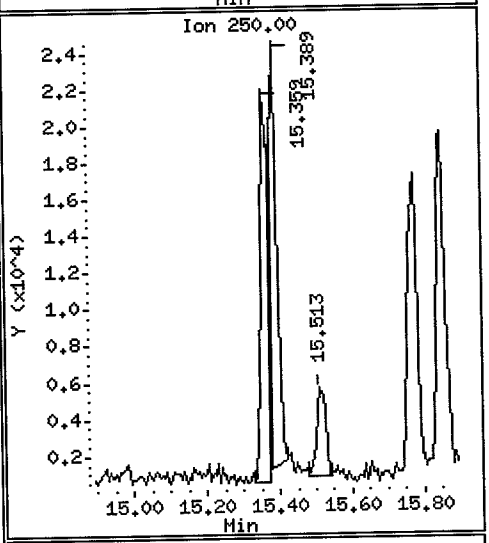


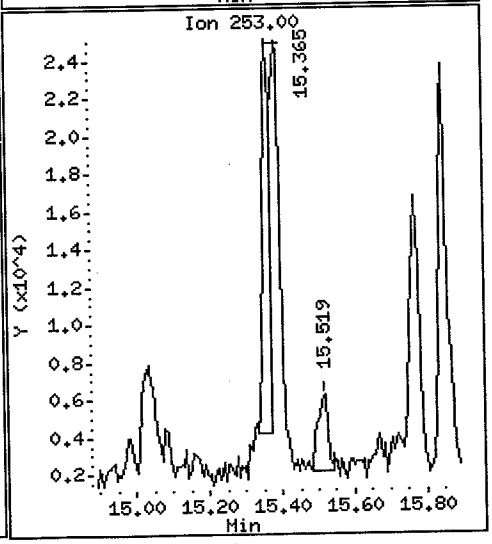












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Operator: VTS

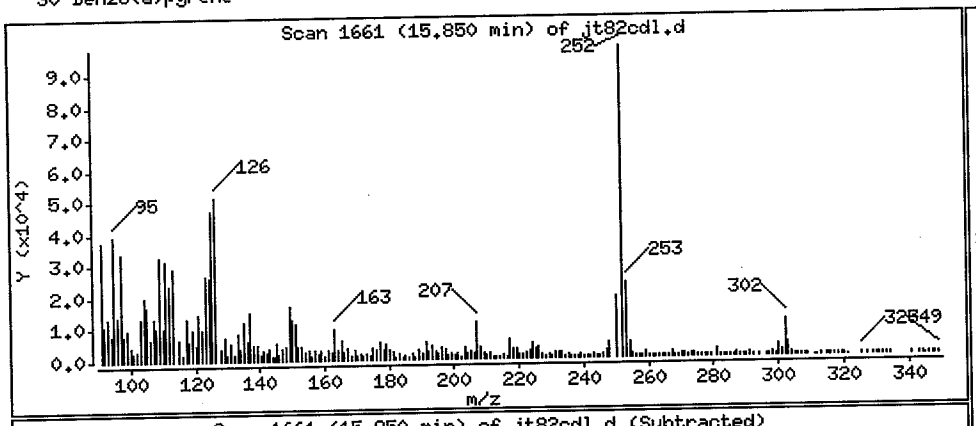
Volume Injected (uL): 1.0

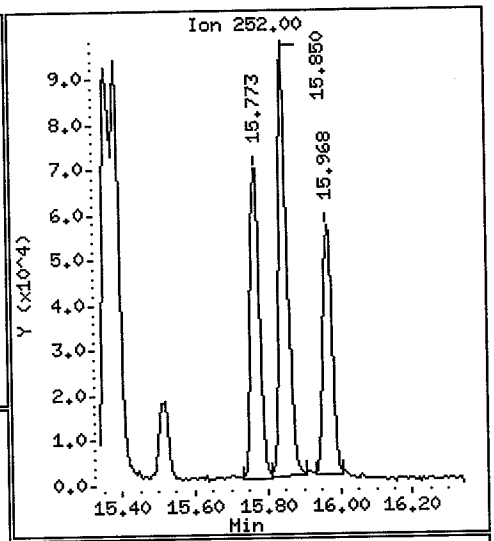
Column diameter: 0.25

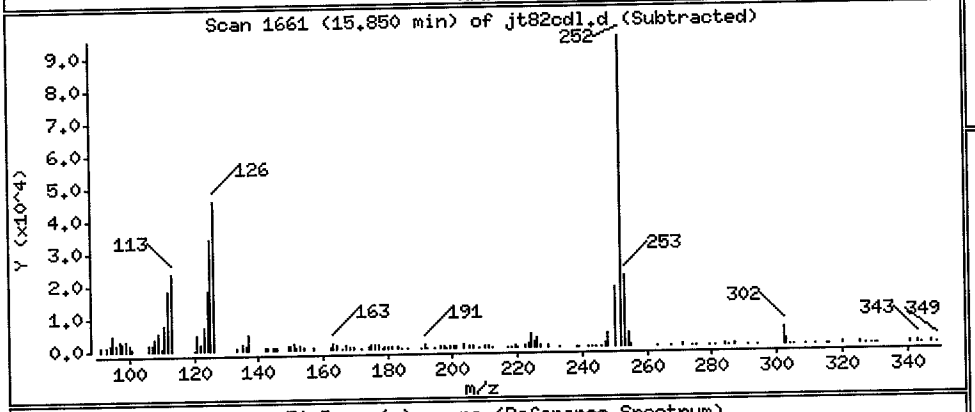
Column phase: ZB-5

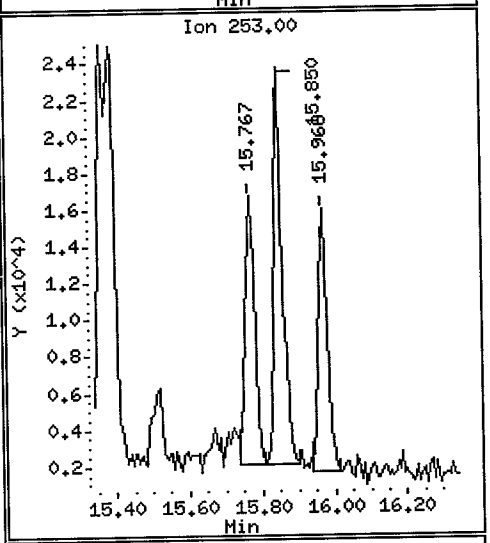
Concentration: 594.9 ug/kg

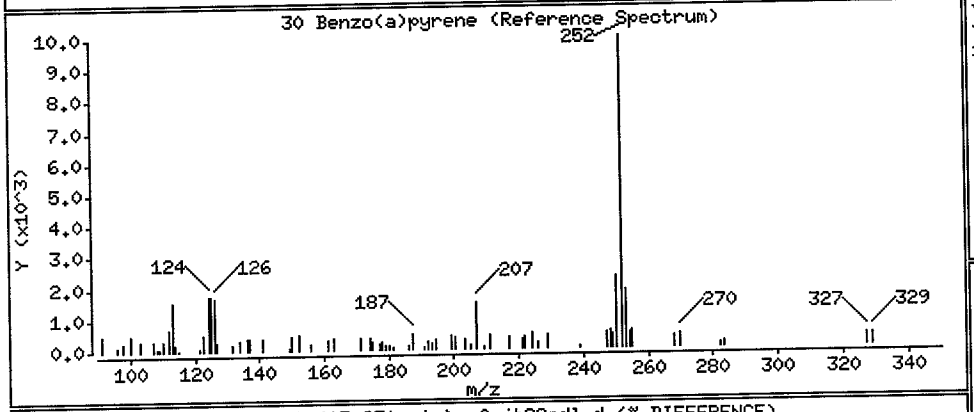
30 Benzo(a)pyrene

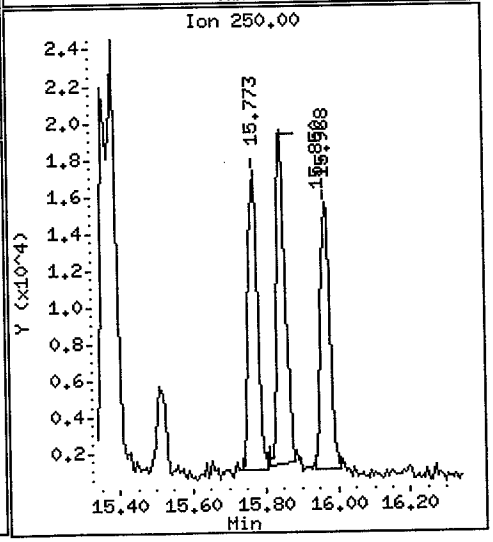


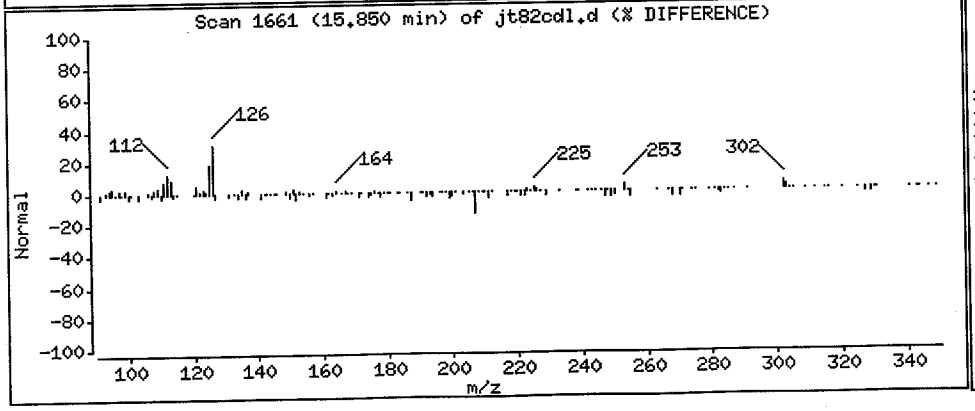












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

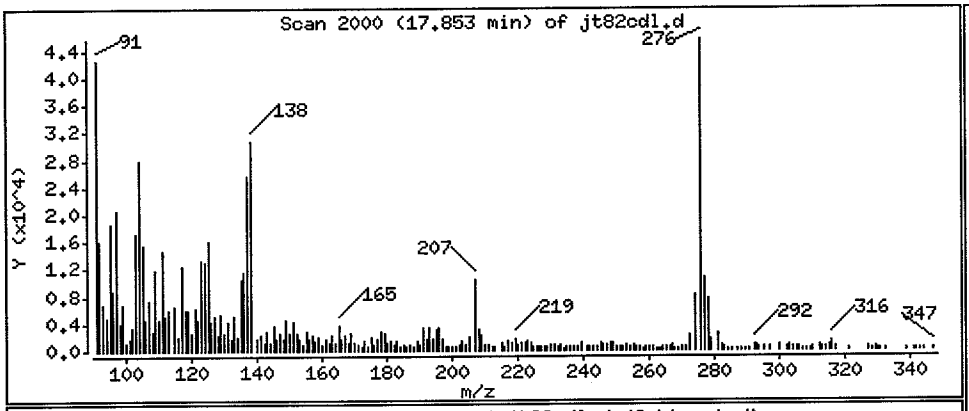
Operator: VTS

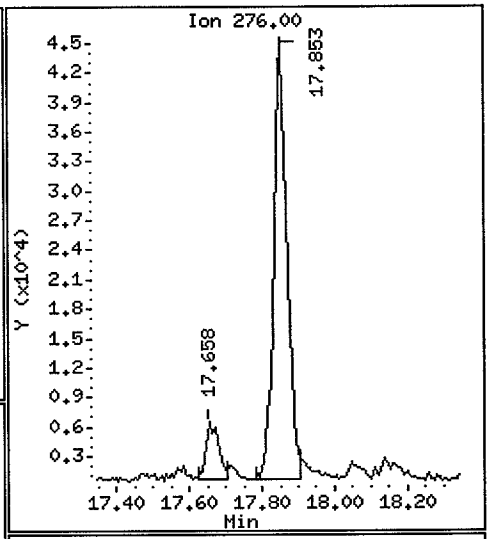
Column phase: ZB-5

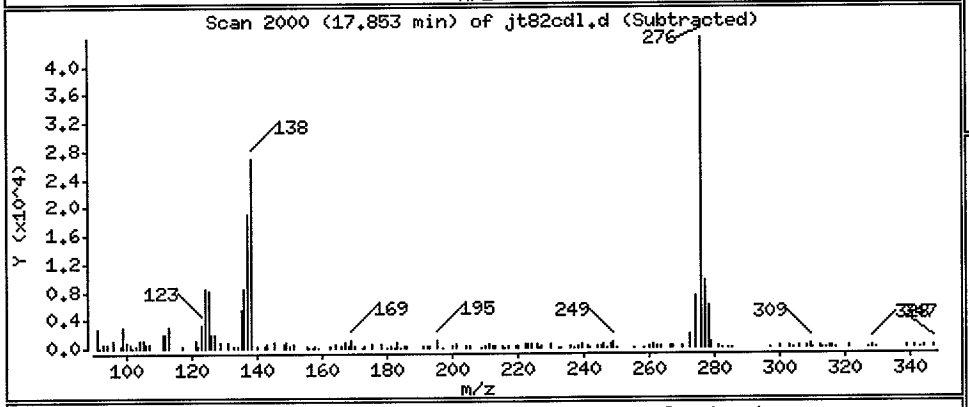
Column diameter: 0.25

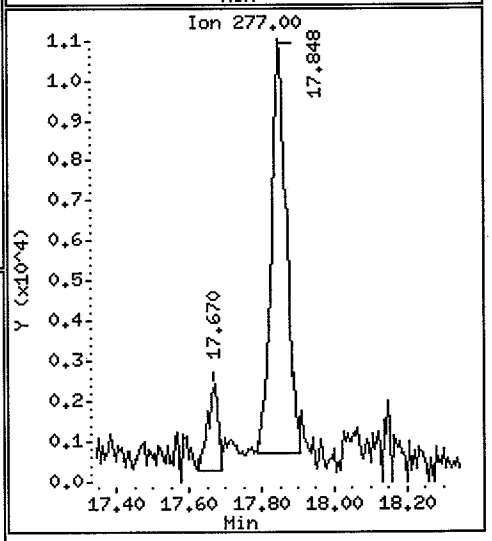
33 Indeno(1,2,3-cd)pyrene

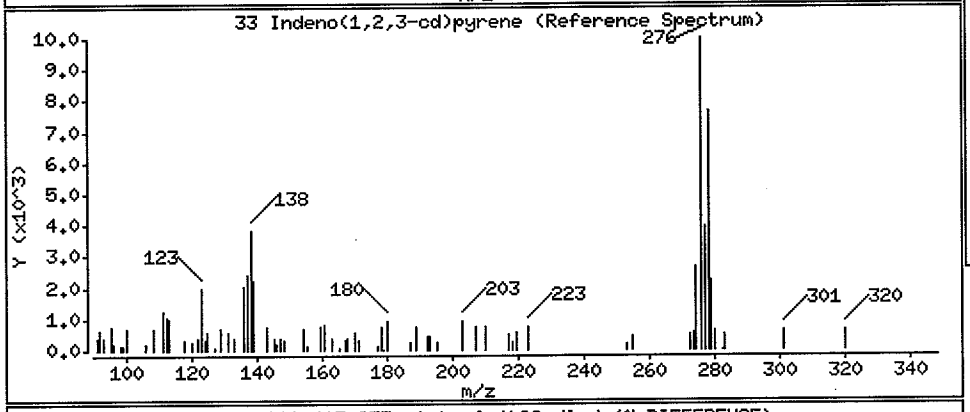
Concentration: 369.1 ug/kg

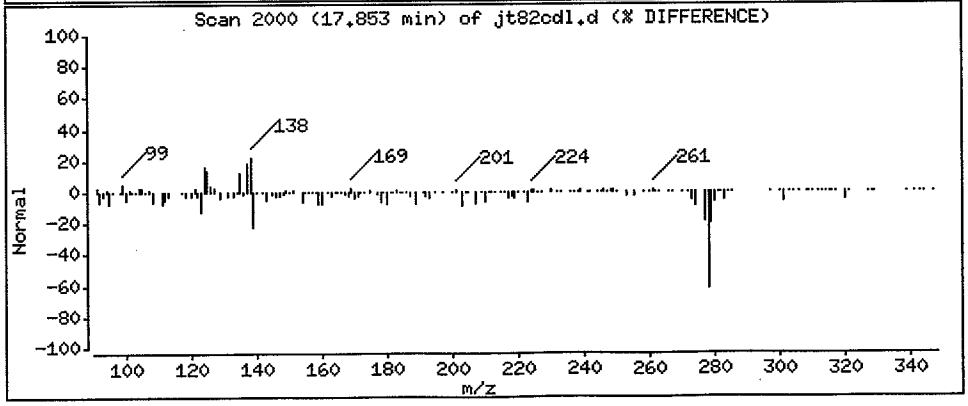












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

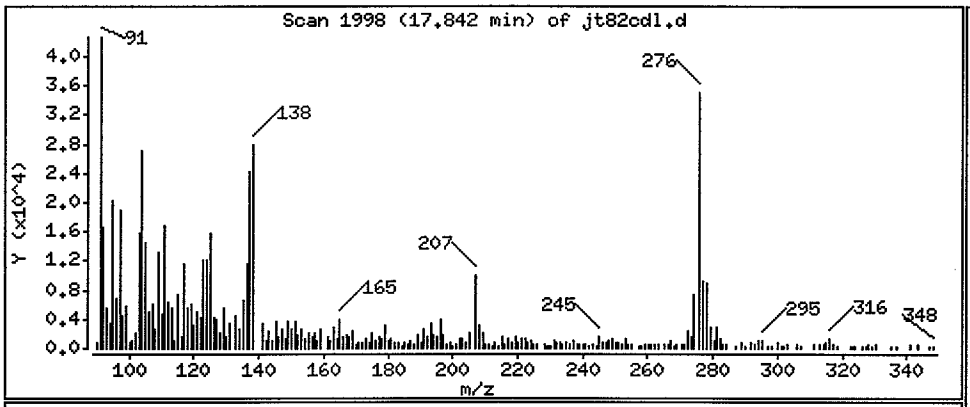
Operator: VTS

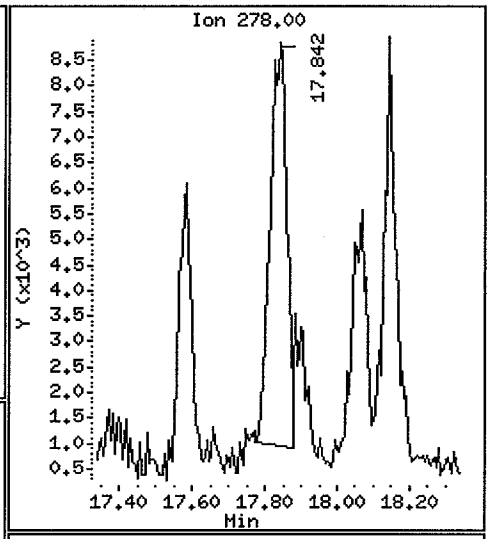
Column phase: ZB-5

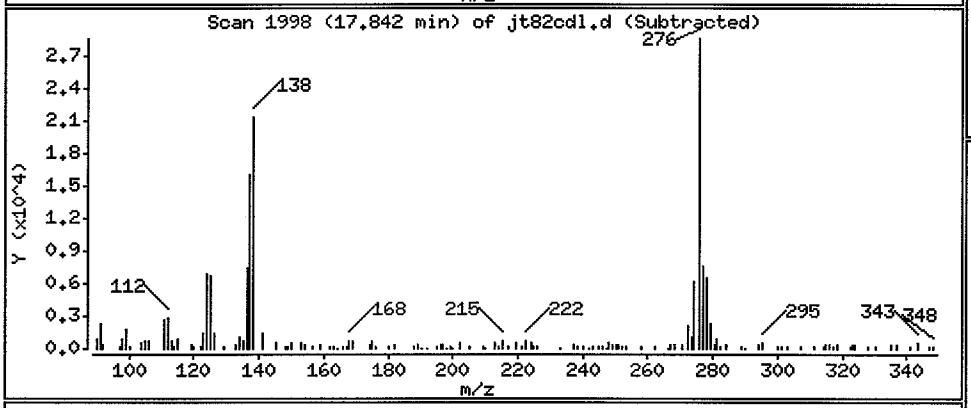
Column diameter: 0.25

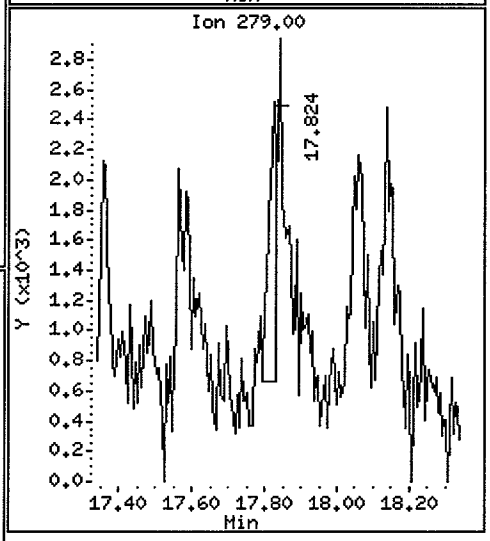
34 Dibenz(a,h)anthracene

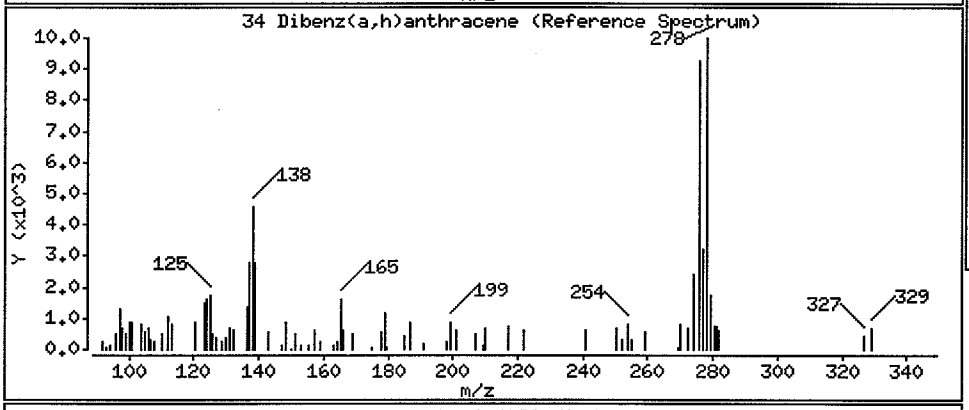
Concentration: 101.8 ug/kg

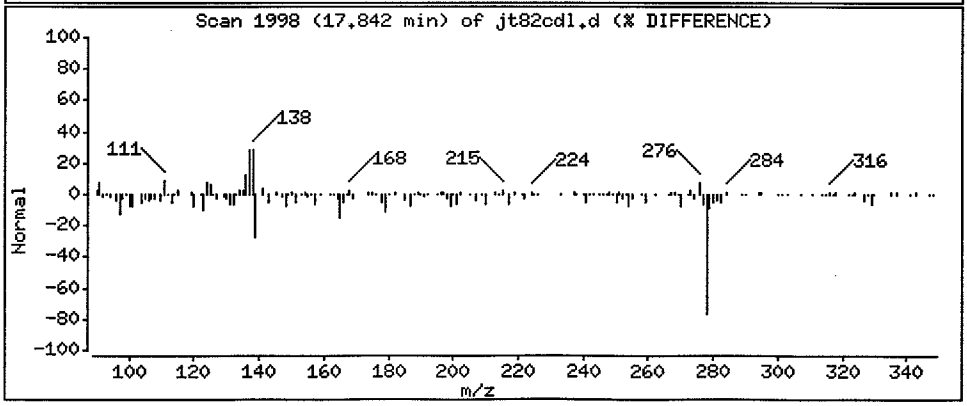












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

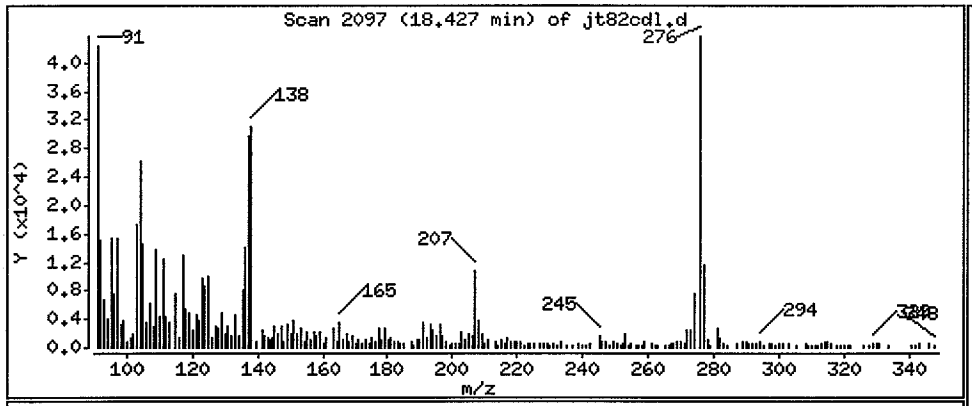
Operator: VTS

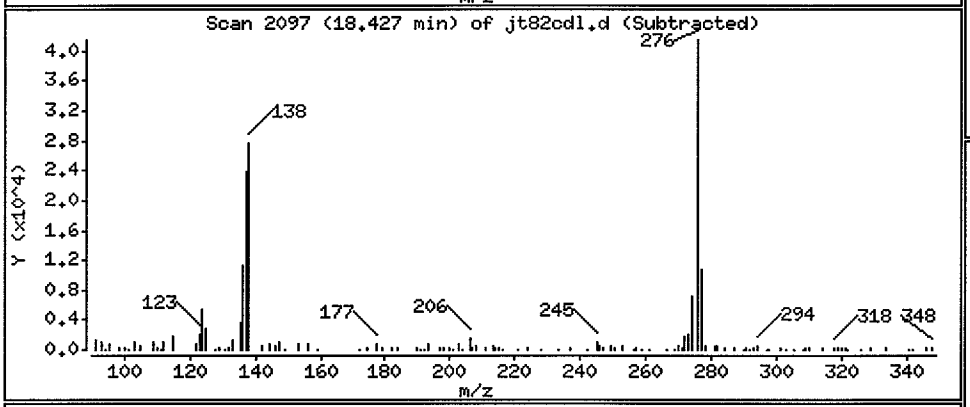
Column phase: ZB-5

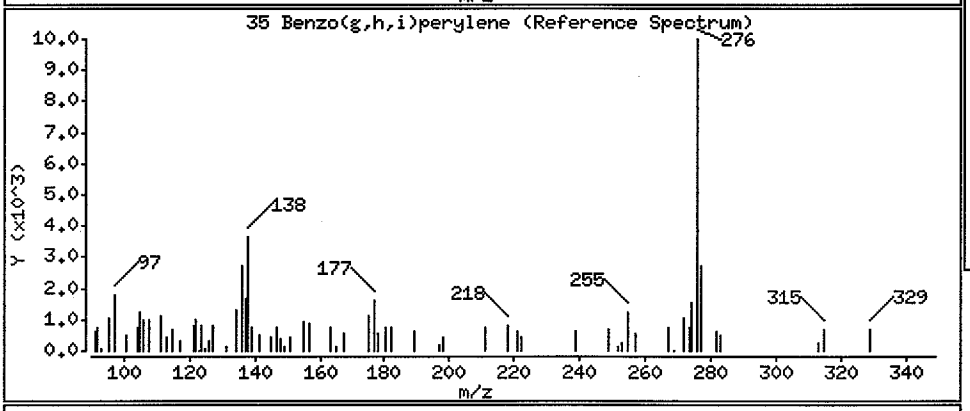
Column diameter: 0.25

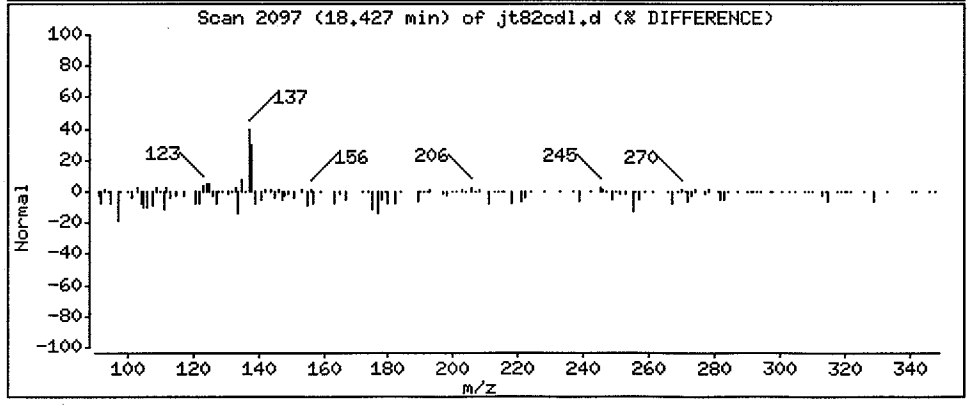
35 Benzo(g,h,i)perylene

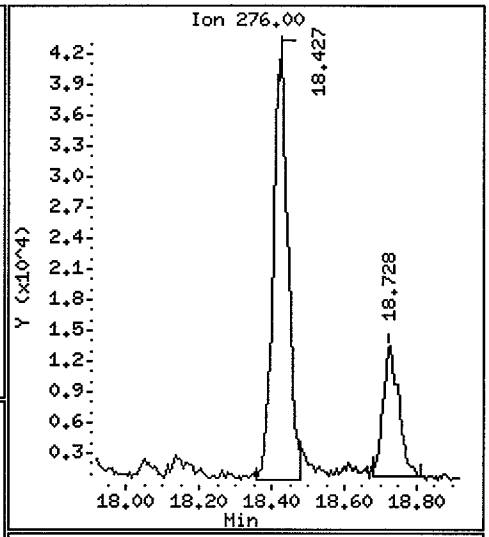
Concentration: 472.2 ug/kg

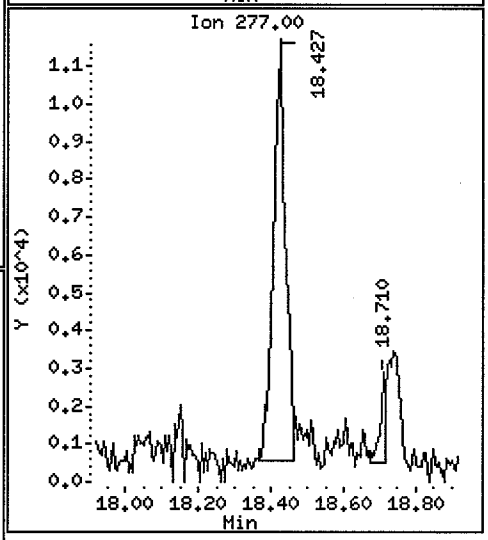












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

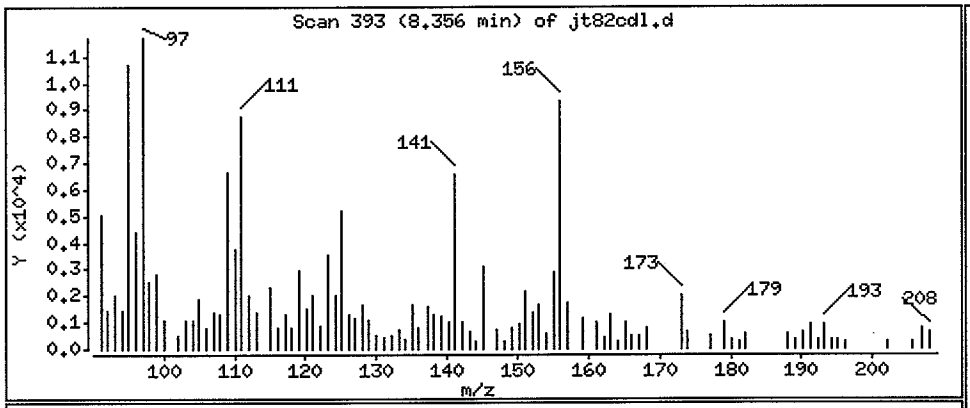
Operator: VTS

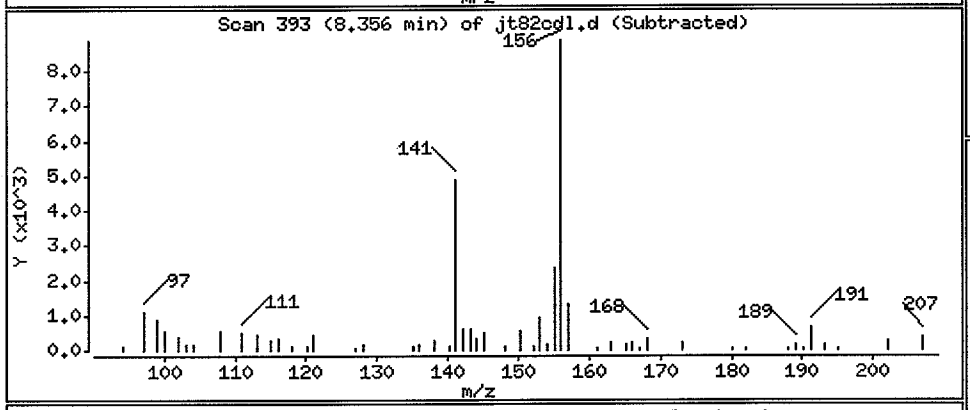
Column phase: ZB-5

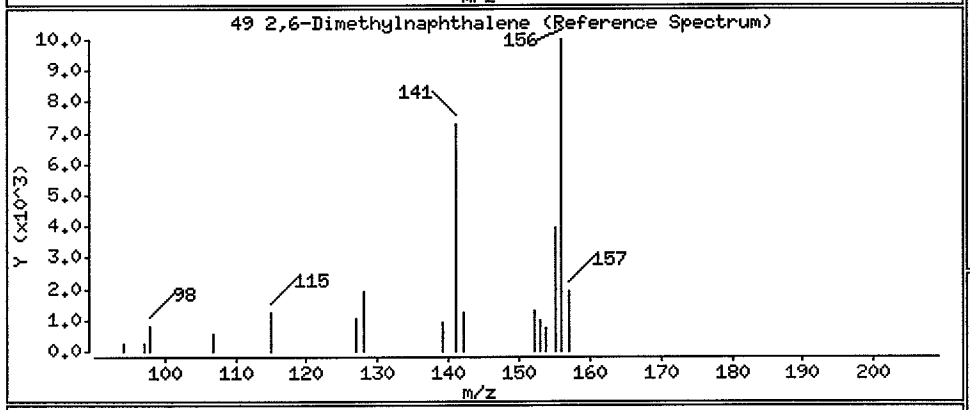
Column diameter: 0.25

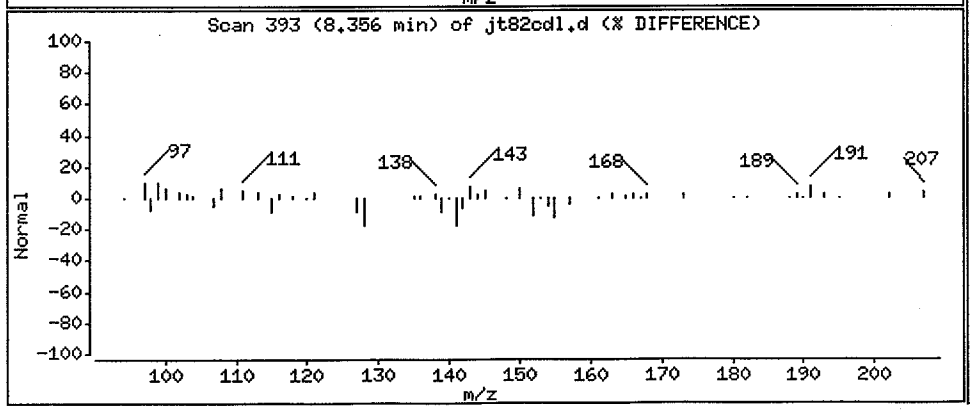
49 2,6-Dimethylnaphthalene

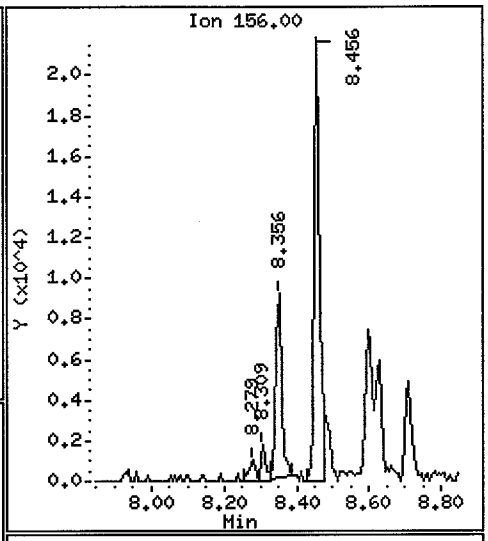
Concentration: 53.49 ug/kg

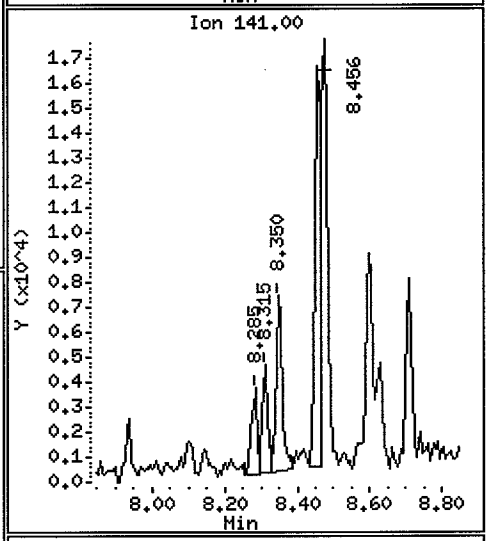


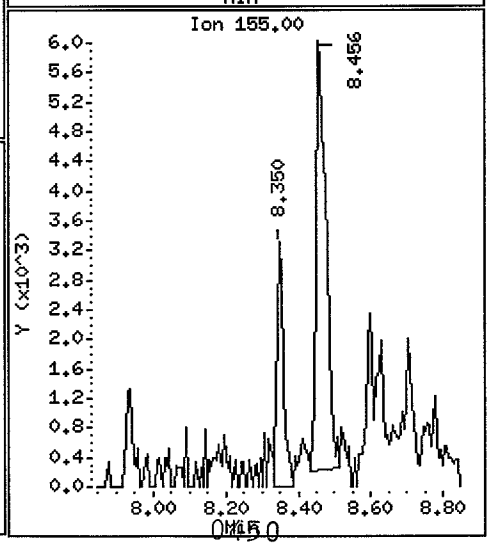












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

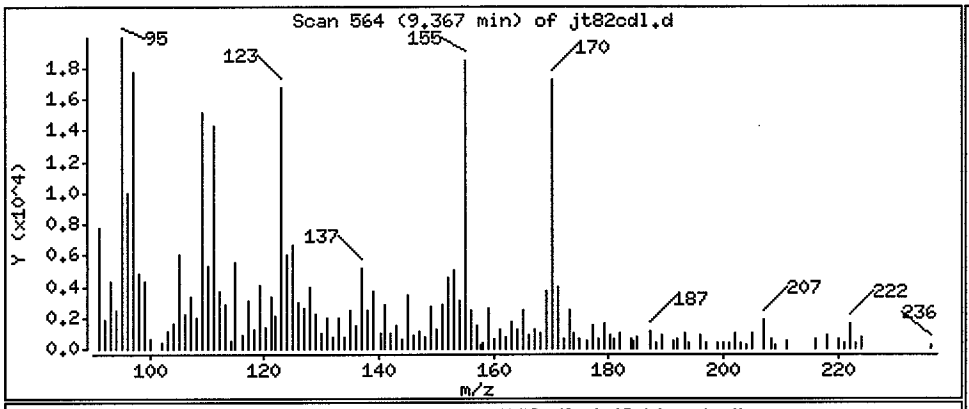
Operator: VTS

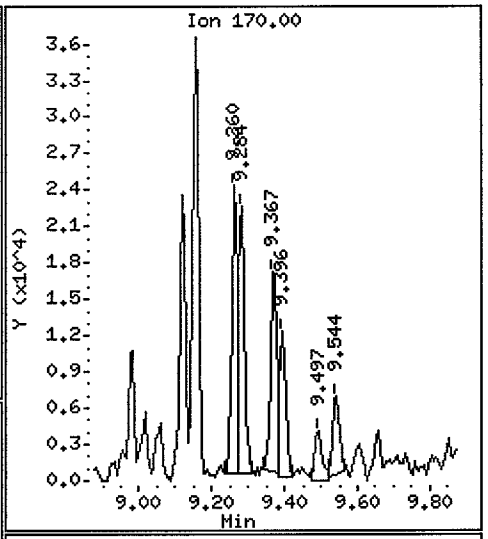
Column phase: ZB-5

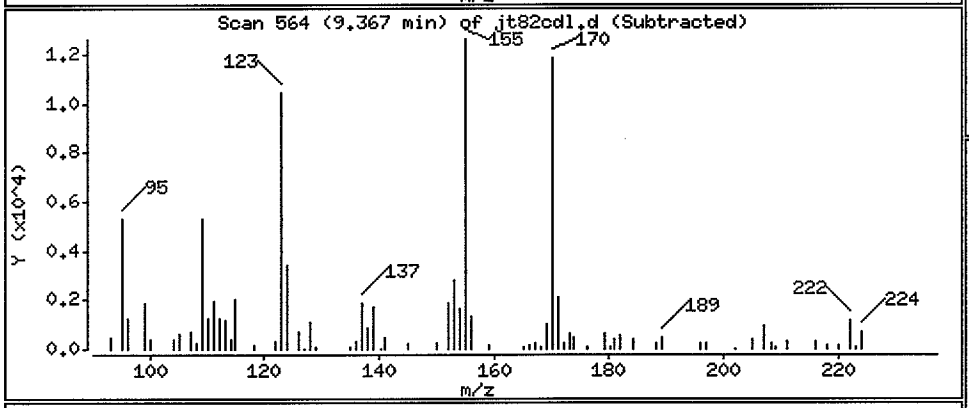
Column diameter: 0.25

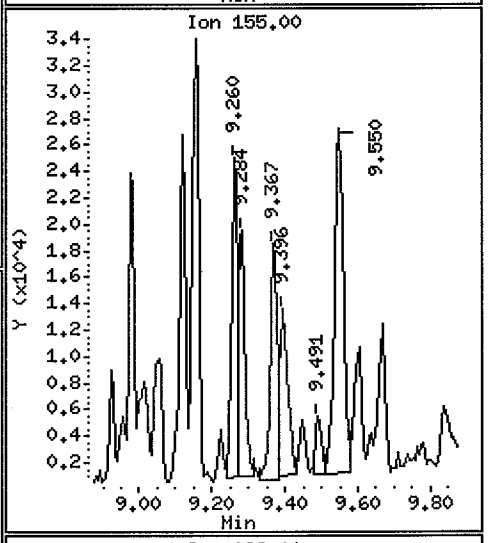
50 2,3,5-Trimethylnaphthalene

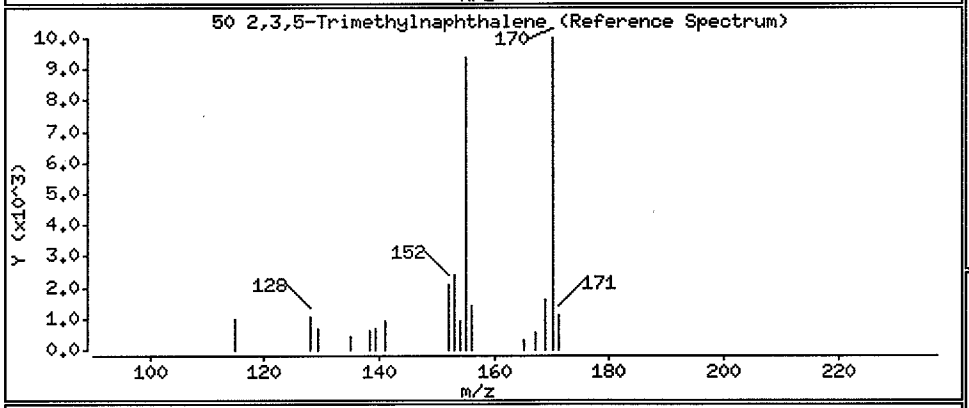
Concentration: 126.2 ug/kg

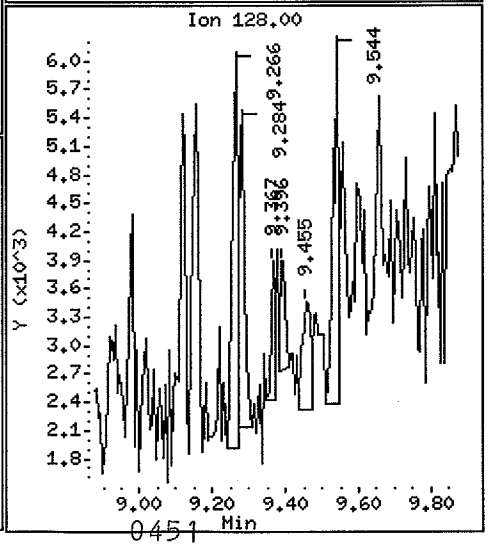


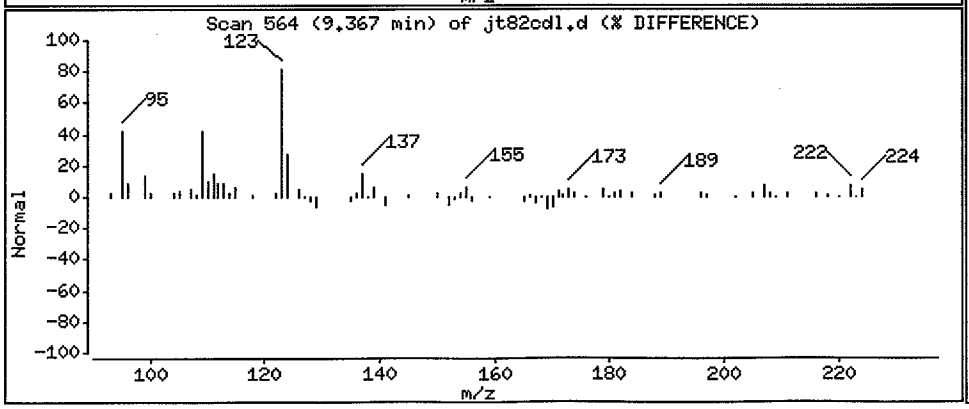












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

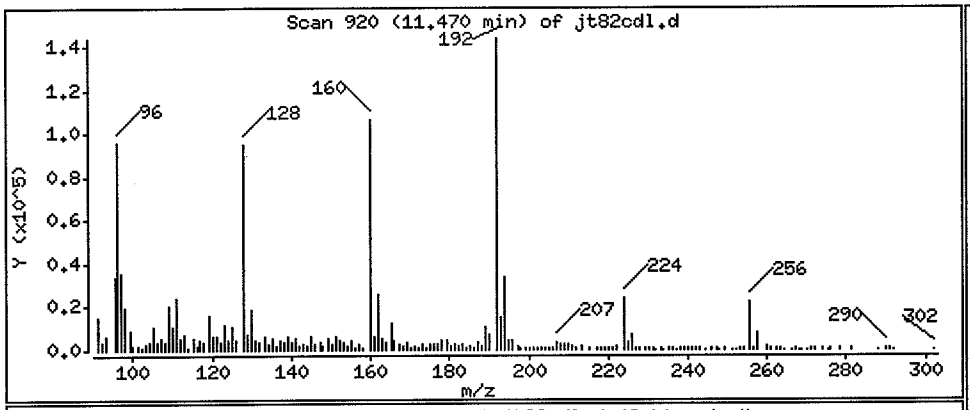
Operator: VTS

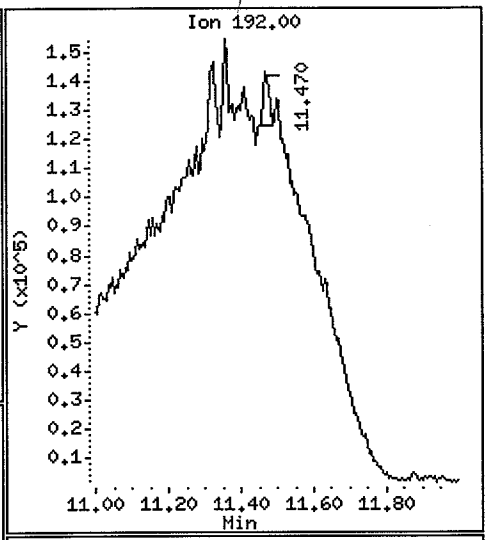
Column phase: ZB-5

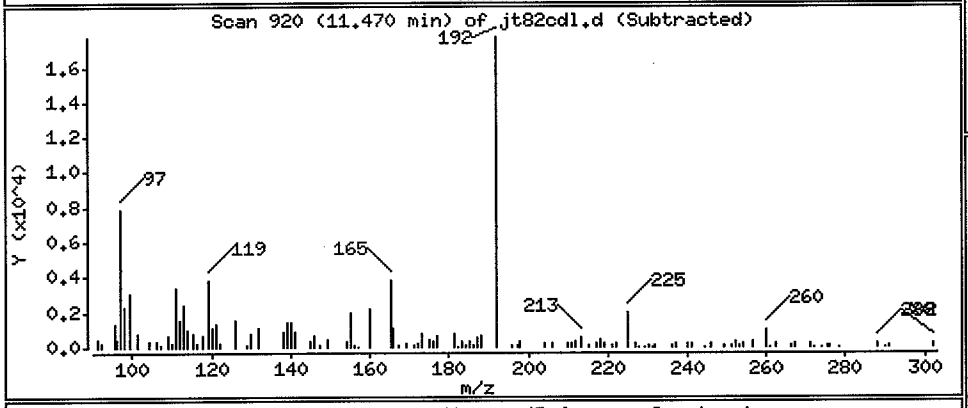
Column diameter: 0.25

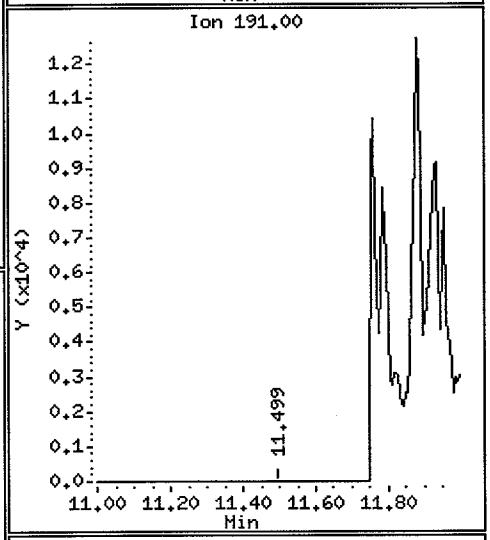
51 1-Methylphenanthrene

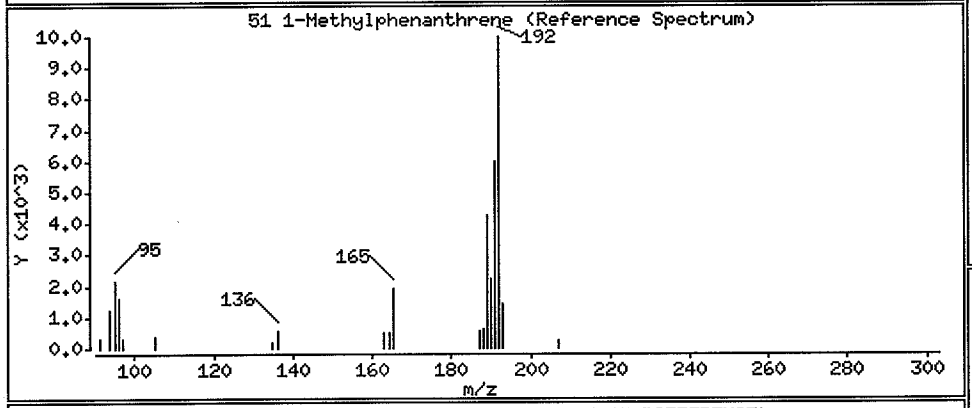
Concentration: 97.60 ug/kg

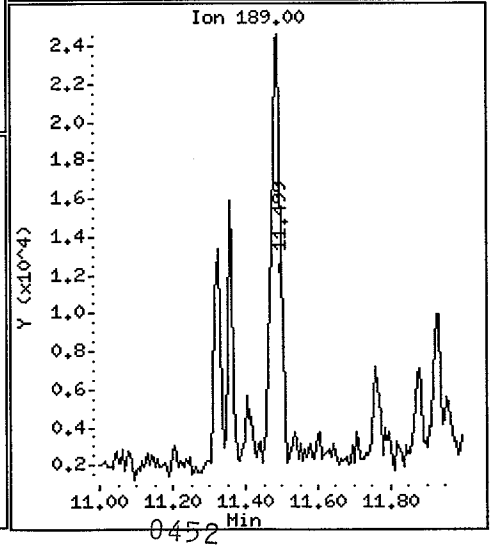


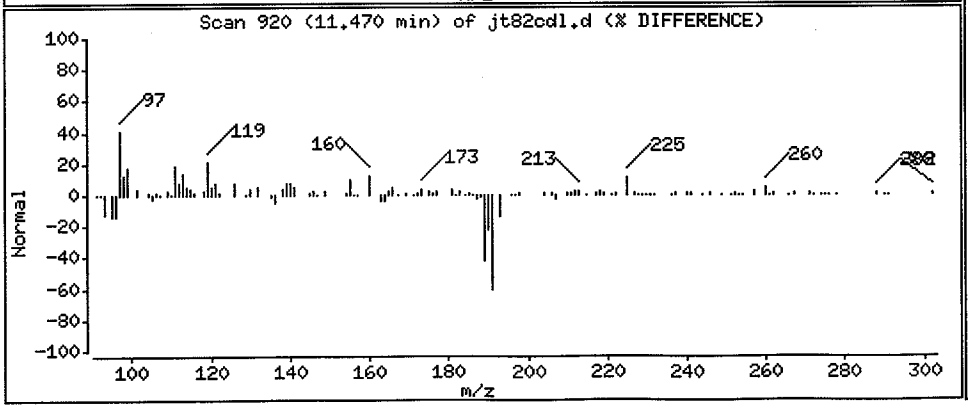












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

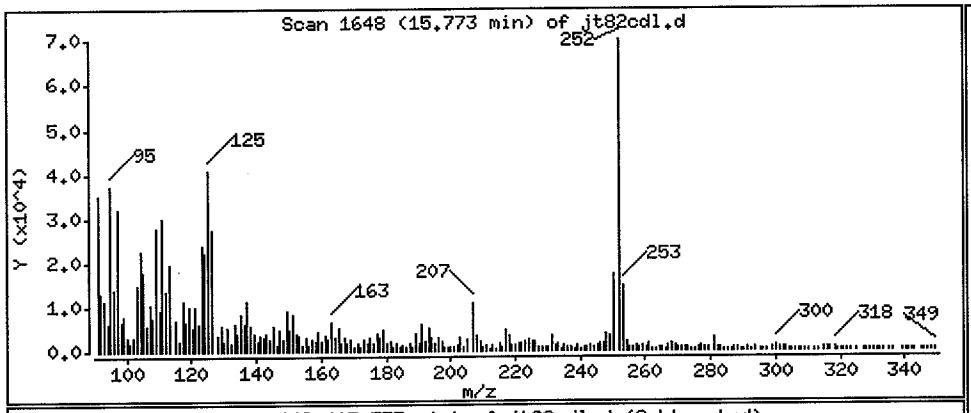
Operator: VTS

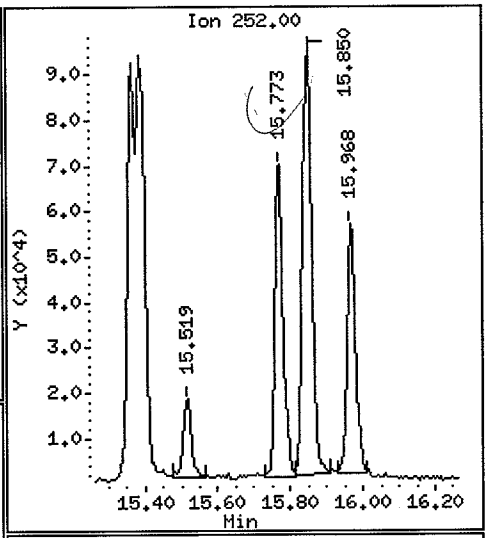
Column phase: ZB-5

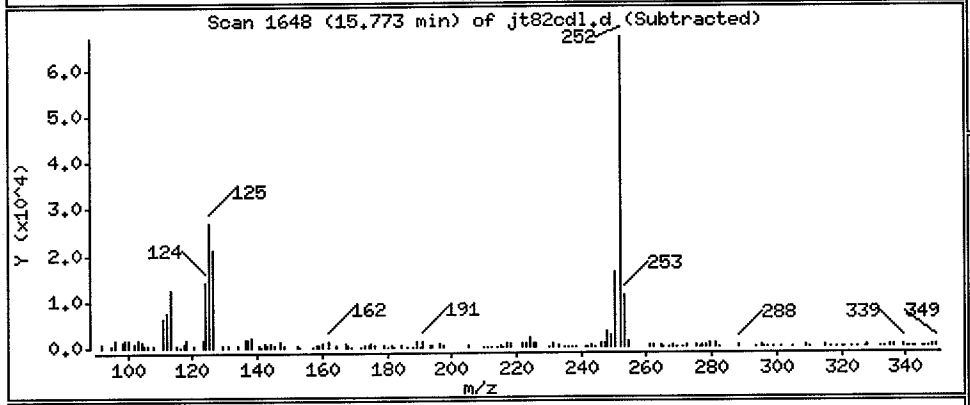
Column diameter: 0.25

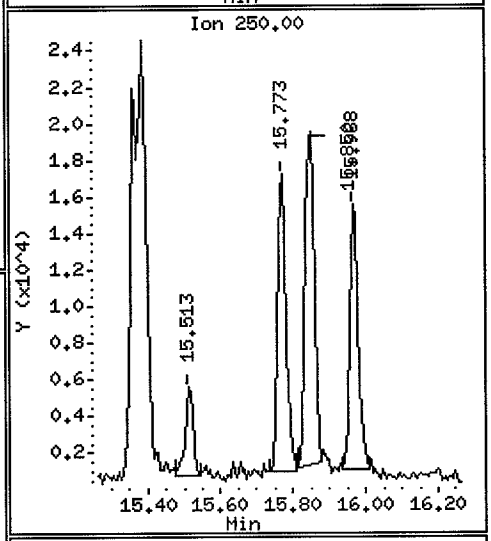
52 Benzo(e)pyrene

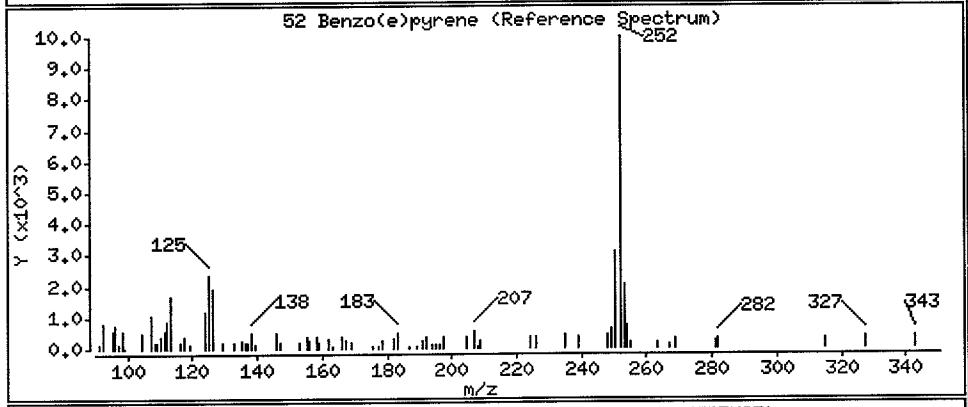
Concentration: 391.3 ug/kg

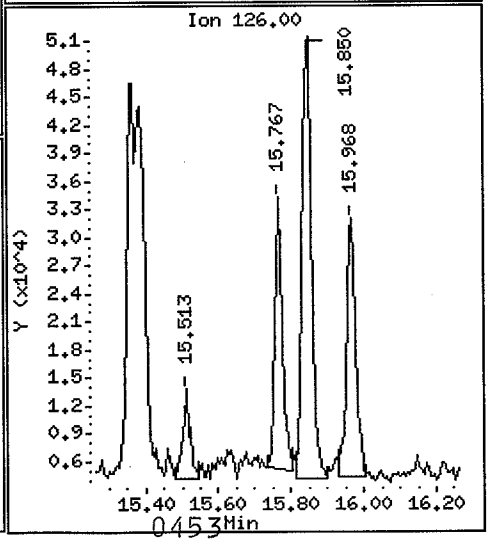


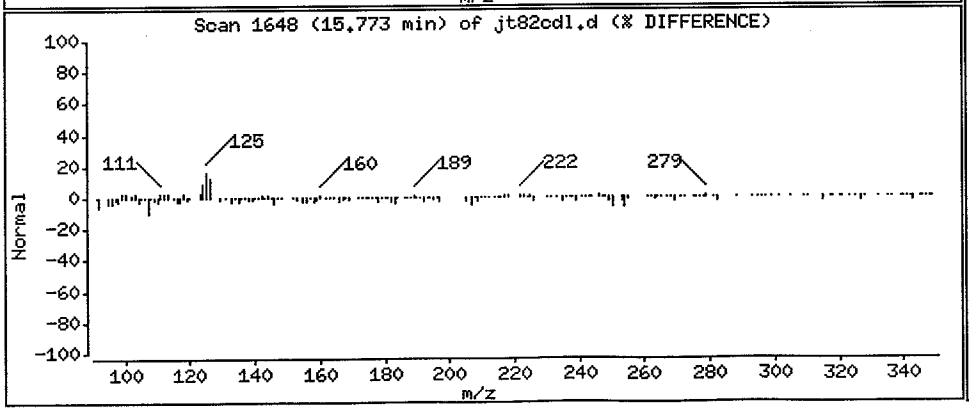












Data File: /chem3/nt1.i/20060901.b/jt82cdl.d

Date : 01-SEP-2006 12:19

Client ID: T4-S3-02-G

Instrument: nt1.i

Sample Info: JT82C,10

Volume Injected (uL): 1.0

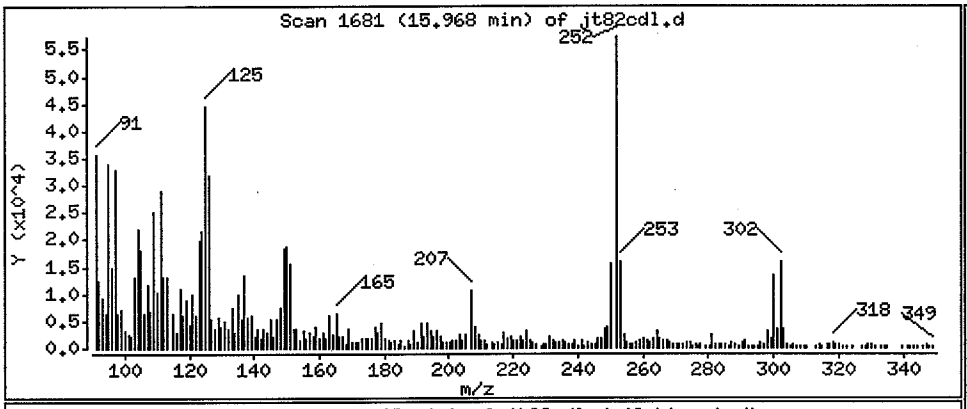
Operator: VTS

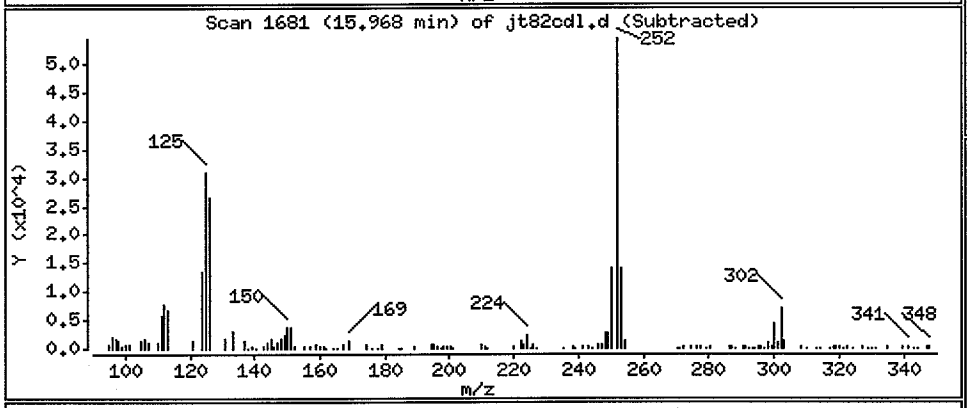
Column phase: ZB-5

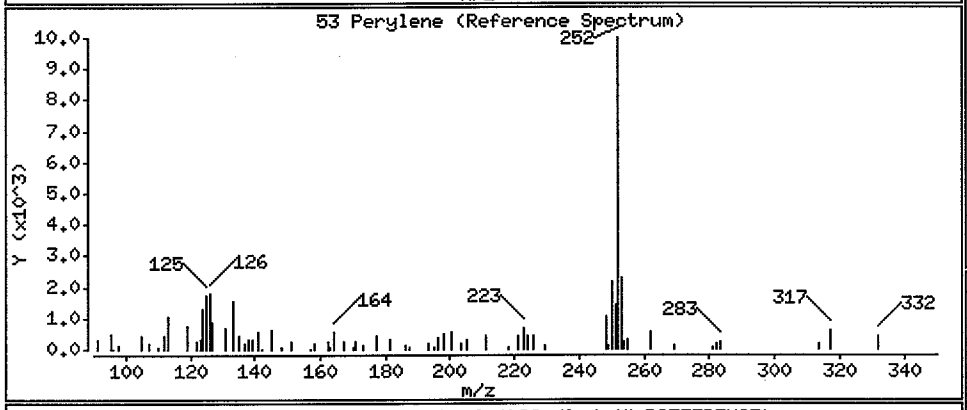
Column diameter: 0.25

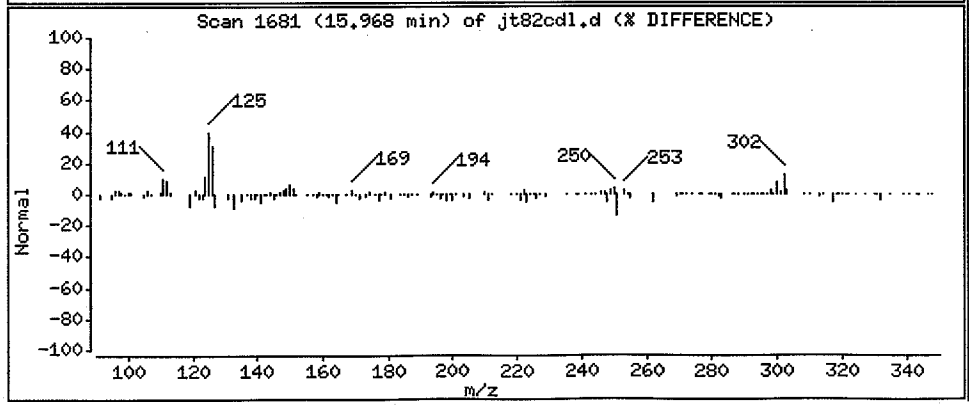
53 Perylene

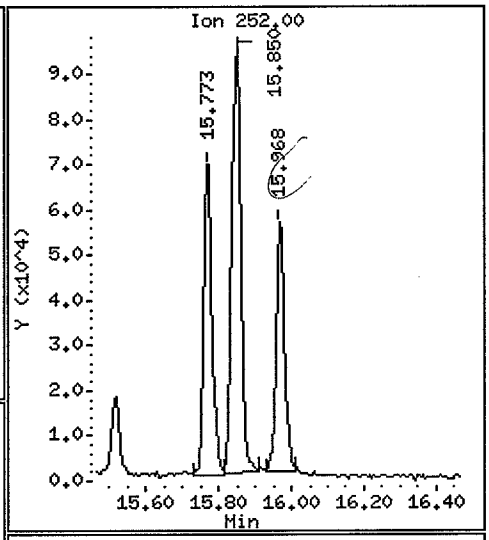
Concentration: 332.0 ug/kg

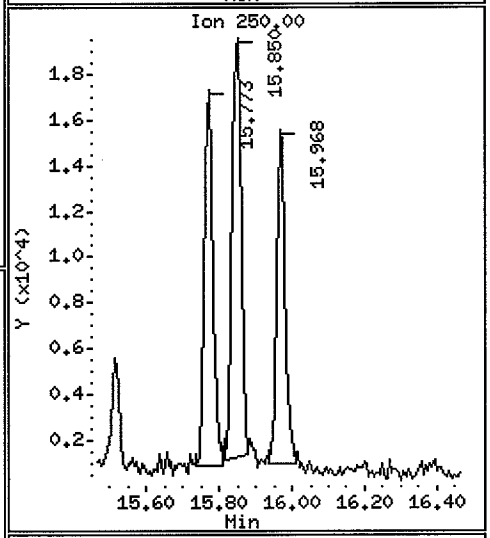


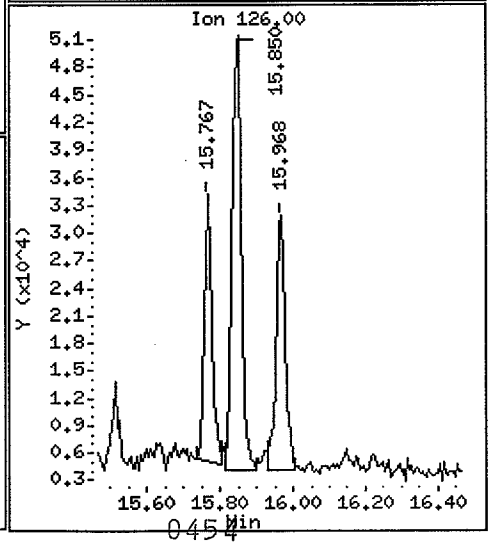












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-J**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82D
LIMS ID: 06-15218
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 19:49
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.4%
pH: 6.5

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	24
91-57-6	2-Methylnaphthalene	5.0	9.9
90-12-0	1-Methylnaphthalene	5.0	6.9
208-96-8	Acenaphthylene	5.0	17
83-32-9	Acenaphthene	5.0	45
86-73-7	Fluorene	5.0	19
85-01-8	Phenanthrene	5.0	210
120-12-7	Anthracene	5.0	40
206-44-0	Fluoranthene	5.0	270
129-00-0	Pyrene	5.0	410
56-55-3	Benzo(a)anthracene	5.0	110
218-01-9	Chrysene	5.0	160
205-99-2	Benzo(b)fluoranthene	5.0	120
207-08-9	Benzo(k)fluoranthene	5.0	130
50-32-8	Benzo(a)pyrene	5.0	140
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	42
53-70-3	Dibenz(a,h)anthracene	5.0	11
191-24-2	Benzo(g,h,i)perylene	5.0	46
198-55-0	Perylene	5.0	97
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	21
832-69-9	1-Methylphenanthrene	33	< 33 Y
192-97-2	Benzo(e)pyrene	5.0	88
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	54

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracen	38.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060831.b/jt82d.d
Lab Smp Id: JT82D Client Smp ID: T4-S3-02-J
Inj Date : 31-AUG-2006 19:49
Operator : VTS Inst ID: nt1.i
Smp Info : JT82D
Misc Info : 06-15218
Comment : 1ul Injection
Method : /chem3/nt1.i/20060831.b/simpna.m
Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.50000	Weight of sample extracted (g)
M	25.40000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.830	6.823	(1.000)	422766	2.00000	
	2 Naphthalene	128	6.854	6.847	(1.003)	101945	0.48344	24.00
$	3 2-Methylnaphthalene-d10	152	7.587	7.580	(1.111)	230612	2.11782	105.1
	4 2-Methylnaphthalene	142	7.622	7.621	(1.116)	25315	0.20271	10.06
	5 1-Methylnaphthalene	142	7.752	7.751	(1.135)	18114	0.13828	6.865
	7 Acenaphthylene	152	8.710	8.703	(0.980)	59601	0.33783	16.77
*	8 Acenaphthene-d10	164	8.887	8.886	(1.000)	212795	2.00000	
	9 Acenaphthene	153	8.928	8.921	(1.005)	94420	0.90366	44.86
	10 Dibenzofuran	168	9.118	9.111	(1.026)	22177	0.14410	7.154(M)
	11 Fluorene	166	9.537	9.536	(1.073)	45832	0.38253	18.99
*	15 Phenanthrene-d10	188	10.701	10.694	(1.000)	276717	2.00000	
	16 Phenanthrene	178	10.731	10.724	(1.003)	596126	4.19705	208.4
	17 Anthracene	178	10.784	10.777	(1.008)	115601	0.81444	40.43
	19 Fluoranthene	202	12.232	12.213	(1.143)	800535	5.52583	274.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.516	12.503	(0.893)	1031518	8.26569	410.4
	22 Benzo(a)anthracene	228	13.993	13.980	(0.999)	261931	2.23811	111.1
*	23 Chrysene-d12	240	14.011	14.004	(1.000)	194346	2.00000	
	24 Chrysene	228	14.047	14.034	(1.003)	354659	3.28554	163.1
	28 Benzo(b)fluoranthene	252	15.370	15.352	(0.964)	180656	2.45853	122.1
	29 Benzo(k)fluoranthene	252	15.394	15.387	(0.966)	205165	2.61897	130.0
	30 Benzo(a)pyrene	252	15.855	15.836	(0.995)	197481	2.75810	136.9
*	31 Perylene-d12	264	15.938	15.925	(1.000)	130199	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.859	17.834	(1.121)	70289	0.85364	42.38
$	32 Dibenz(a,h)anthrancene-d14	292	17.782	17.763	(1.116)	57447	1.15293	57.24
	34 Dibenz(a,h)anthracene	278	17.853	17.828	(1.120)	15646	0.23261	11.55(M)
	35 Benzo(g,h,i)perylene	276	18.438	18.401	(1.157)	64483	0.94210	46.77
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.355	8.348	(0.940)	44147	0.42633	21.17
	50 2,3,5-Trimethylnaphthalene	170	9.372	9.371	(1.055)	92159	1.08656	53.94
	51 1-Methylphenanthrene	192	11.511	11.492	(0.822)	52470	0.65957	32.75(M)
	52 Benzo(e)pyrene	252	15.778	15.759	(0.990)	141011	1.77919	88.33
	53 Perylene	252	15.979	15.960	(1.003)	145898	1.96059	97.34

QC Flag Legend

M - Compound response manually integrated.

9-1-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82d.d
Lab Smp Id: JT82D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15218

Calibration Date: 31-AUG-2006
Calibration Time: 11:36
Client Smp ID: T4-S3-02-J
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	330618	165309	661236	422766	27.87
8 Acenaphthene-d10	168464	84232	336928	212795	26.31
15 Phenanthrene-d10	226331	113166	452662	276717	22.26
23 Chrysene-d12	170894	85447	341788	194346	13.72
31 Perylene-d12	178548	89274	357096	130199	-27.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.10
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.01
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.07
23 Chrysene-d12	14.00	13.50	14.50	14.01	0.05
31 Perylene-d12	15.92	15.42	16.42	15.94	0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

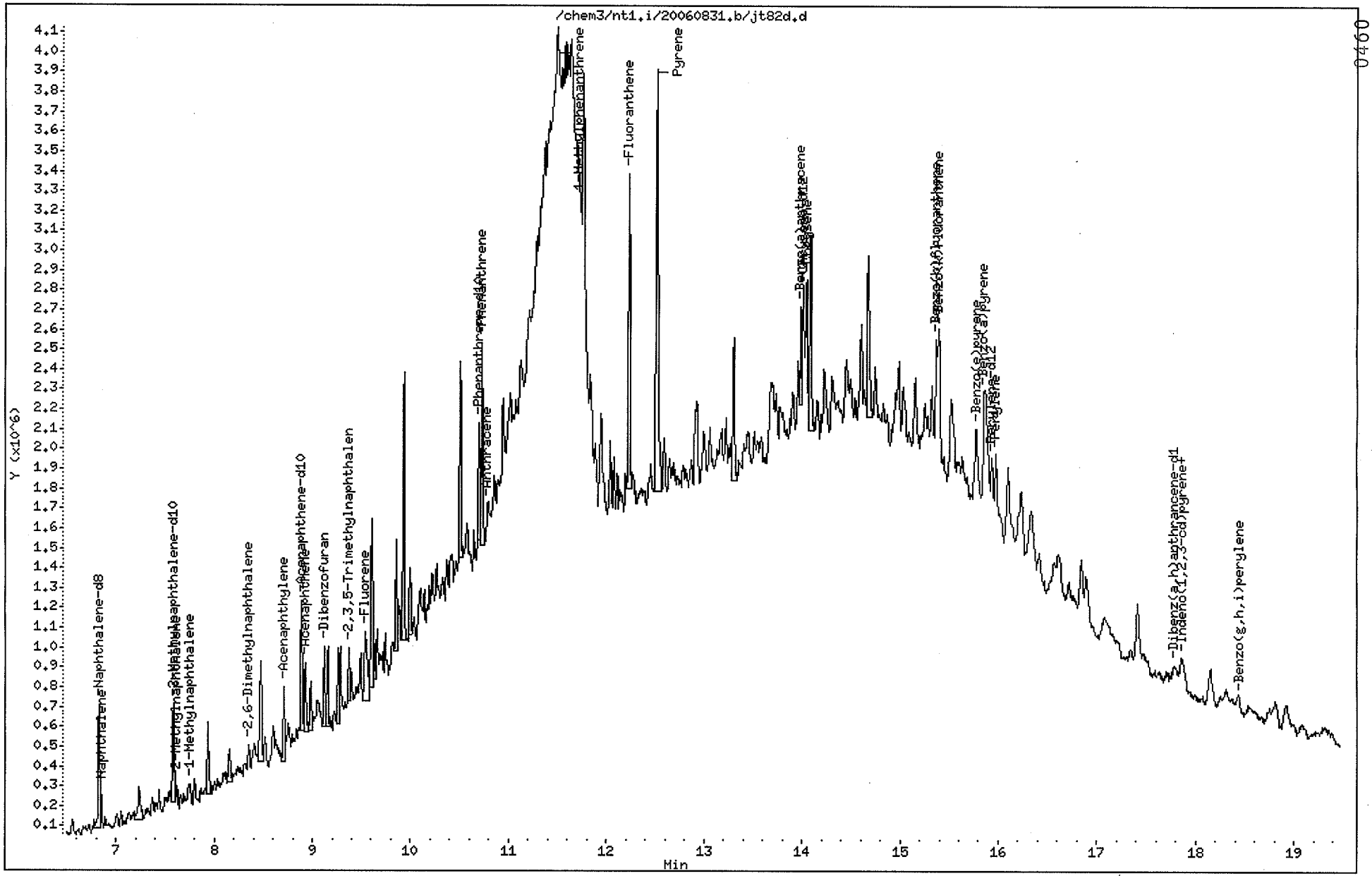
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82D
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15218

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-J
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.9	105.1	70.59	32-97
$ 32 Dibenz(a,h)anthran	148.9	57.24	38.43	21-105

Data File: /chem3/nt1.i/20060831.b/jt82d.d
Date : 31-AUG-2006 19:49
Client ID: T4-S3-02-J
Sample Info: JT82D
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

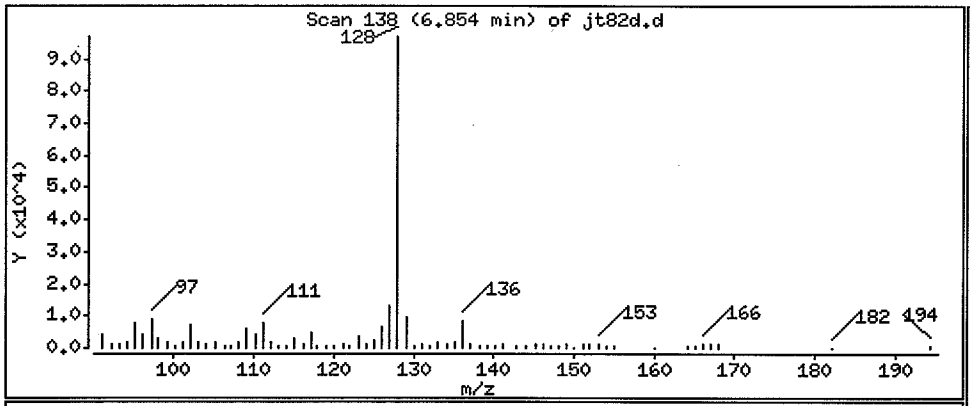
Operator: VTS

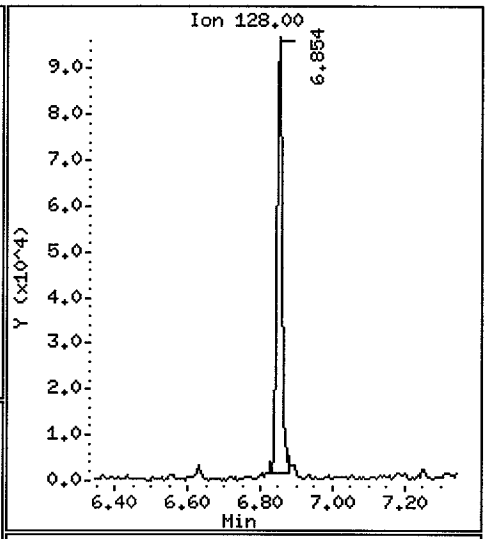
Column phase: ZB-5

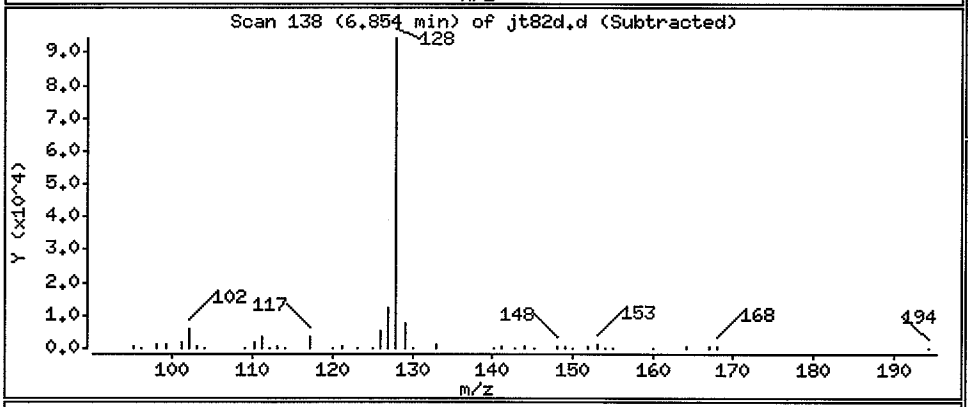
Column diameter: 0.25

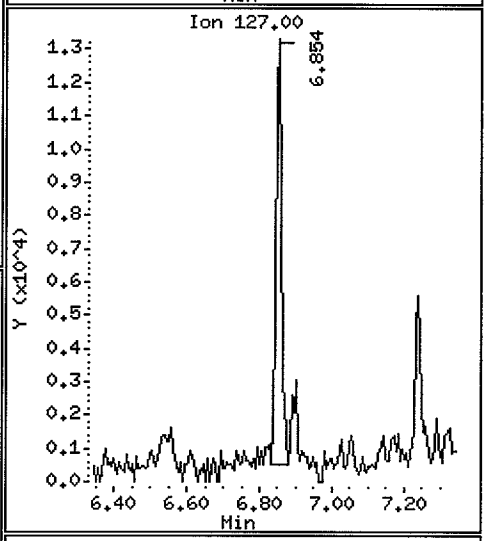
2 Naphthalene

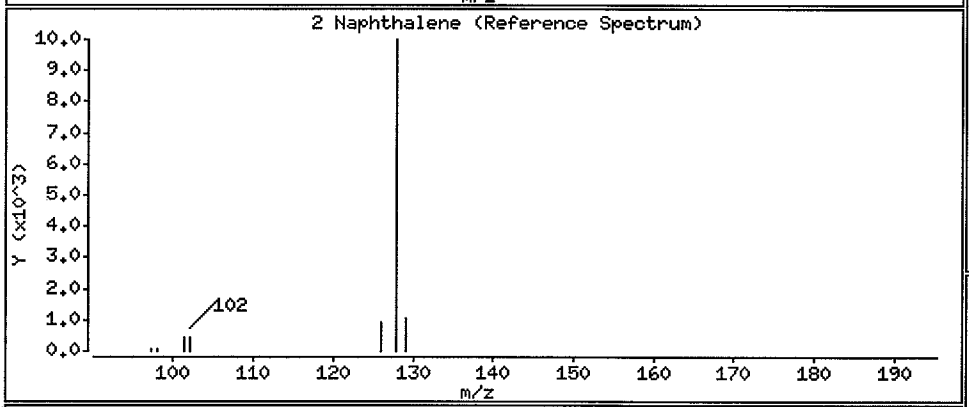
Concentration: 24.00 ug/kg

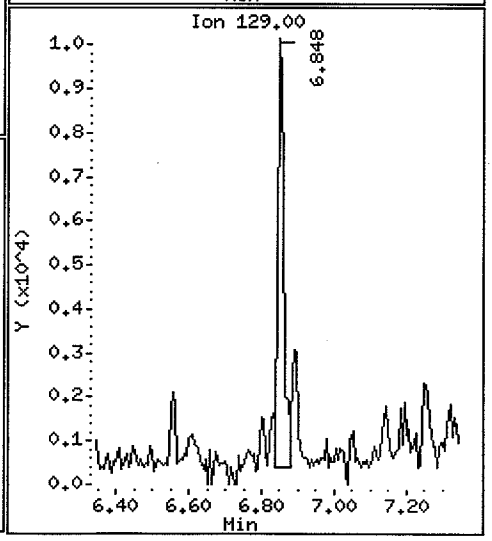


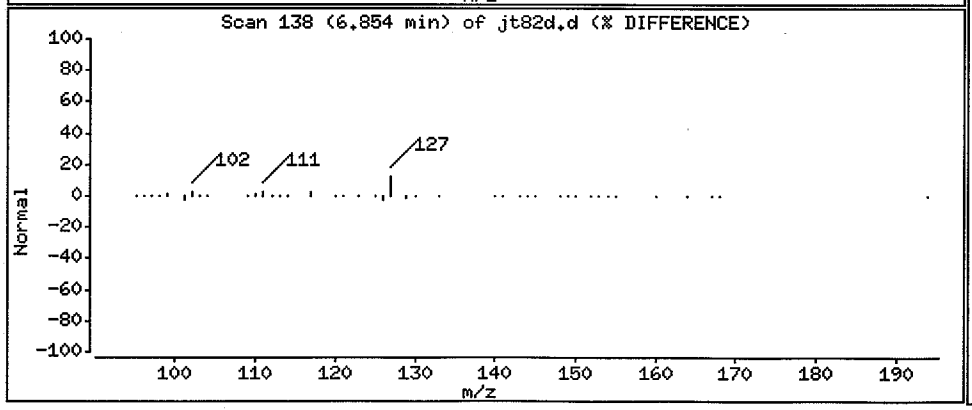












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

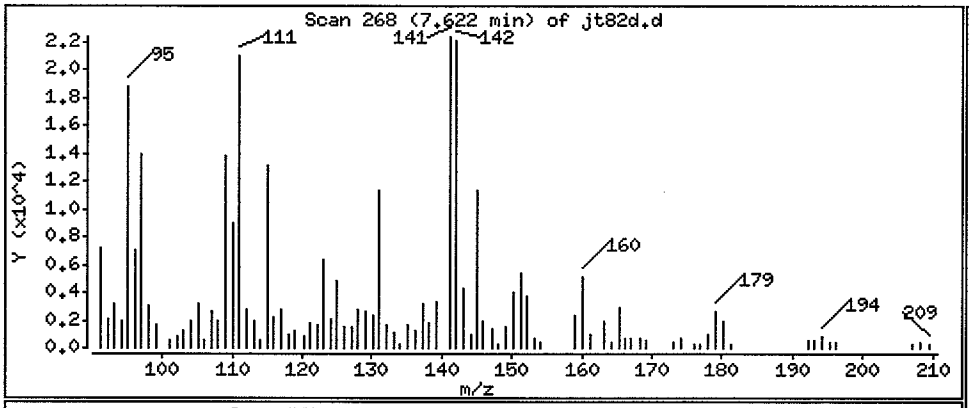
Operator: VTS

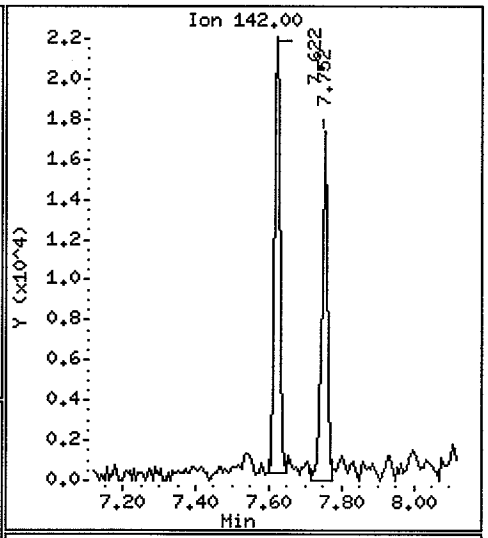
Column phase: ZB-5

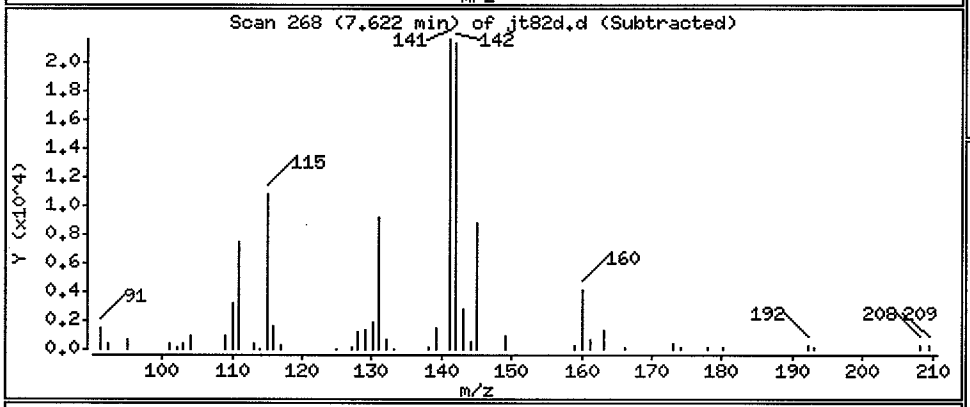
Column diameter: 0.25

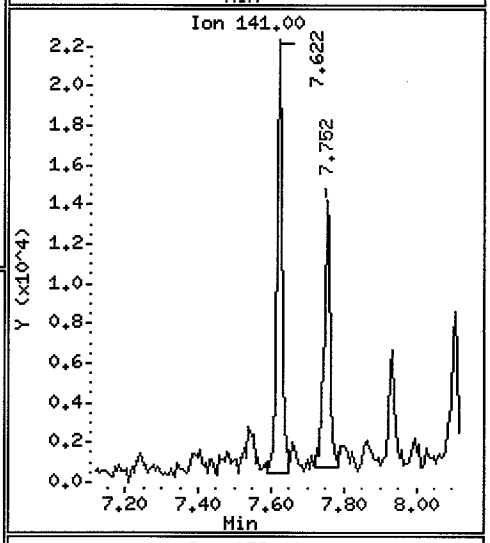
4 2-Methylnaphthalene

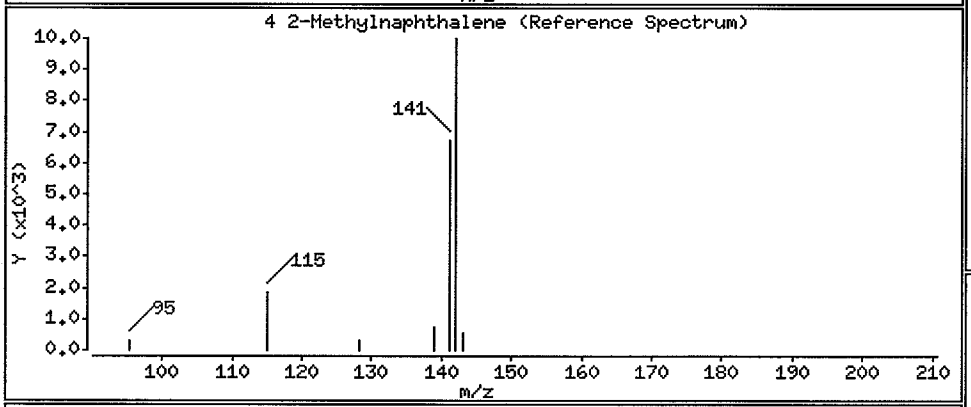
Concentration: 10.06 ug/kg

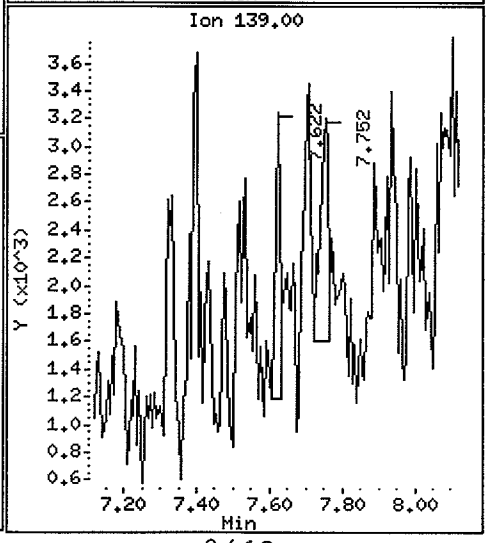


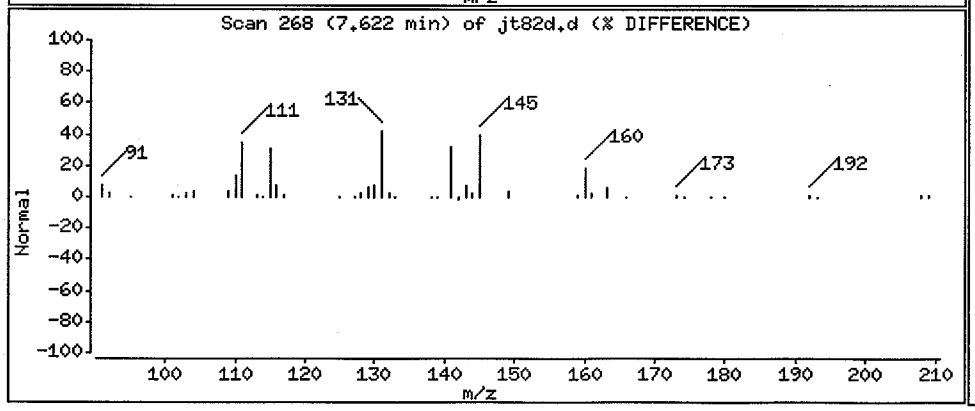












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

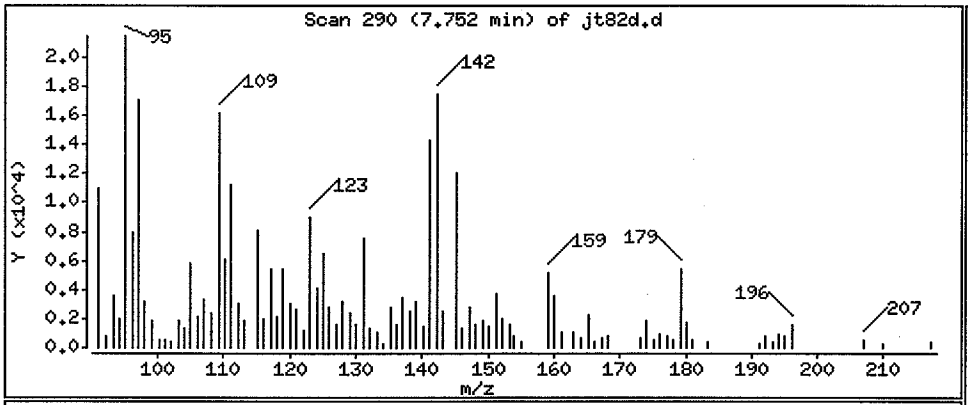
Operator: VTS

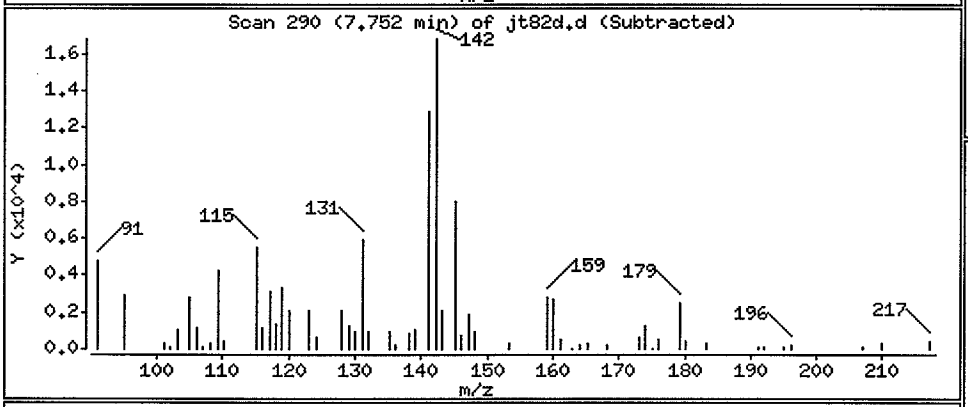
Column phase: ZB-5

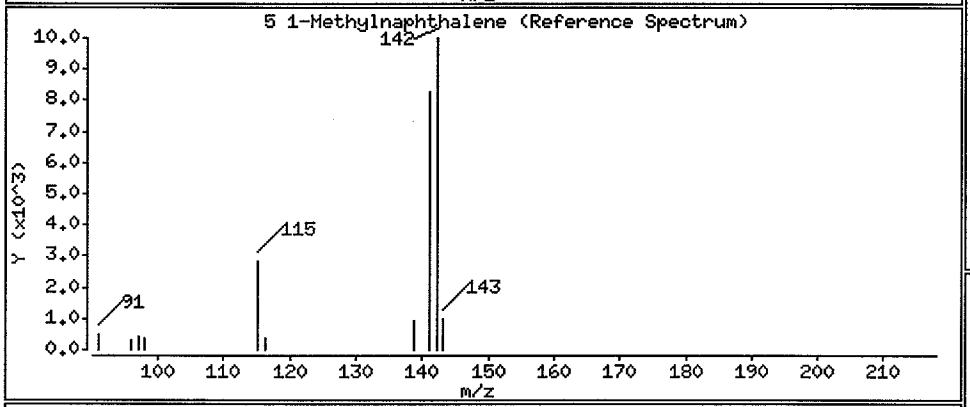
Column diameter: 0.25

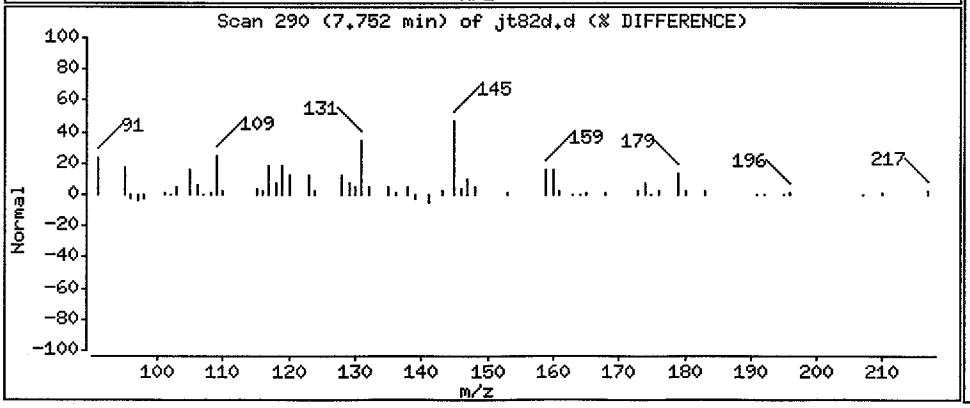
5 1-Methylnaphthalene

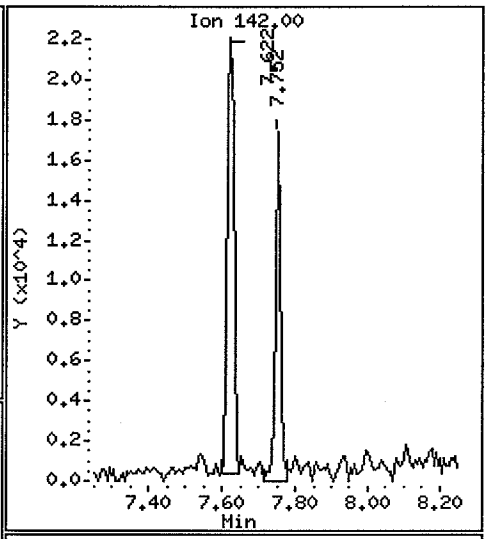
Concentration: 6.865 ug/kg

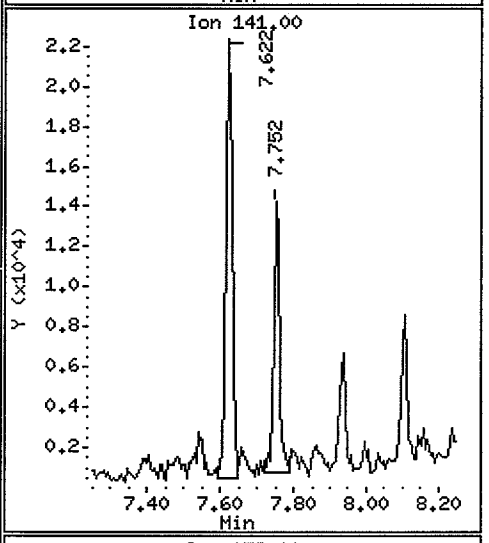


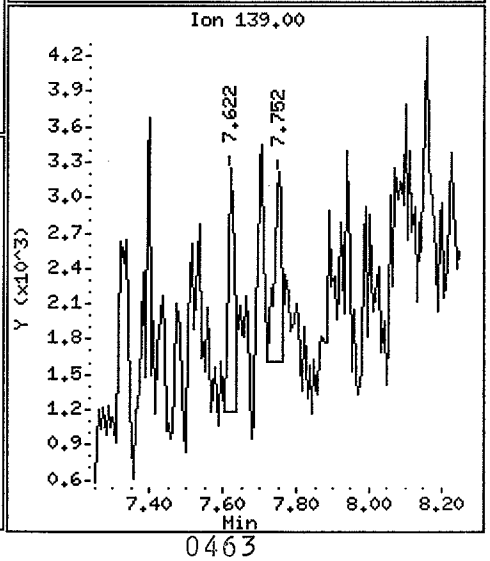












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

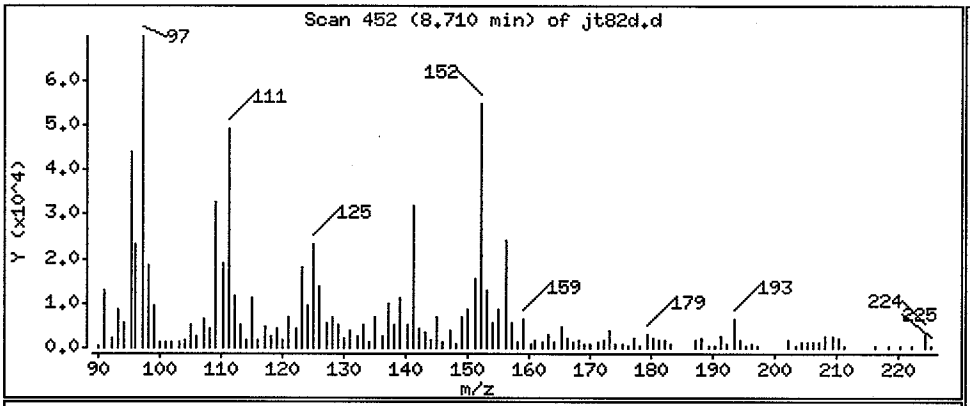
Operator: VTS

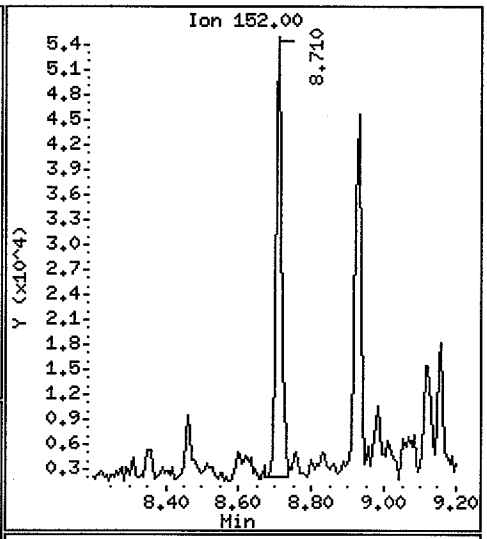
Column phase: ZB-5

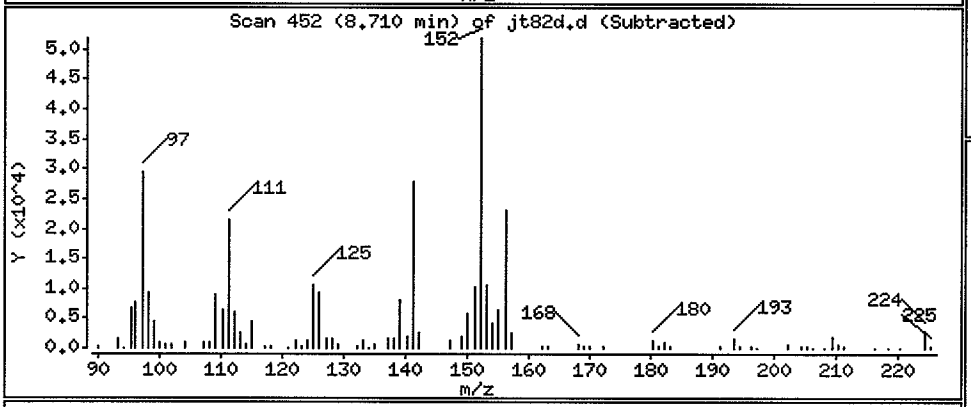
Column diameter: 0.25

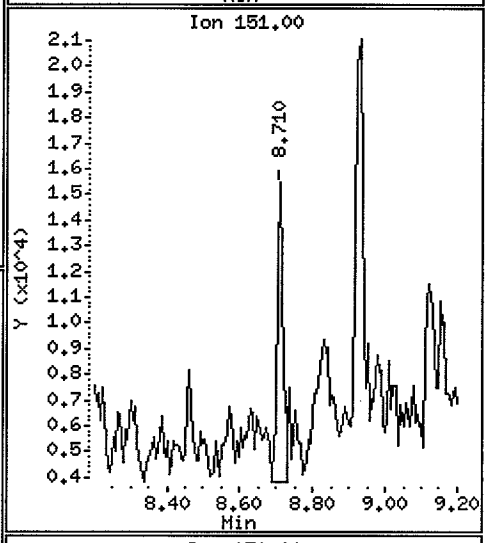
7 Acenaphthylene

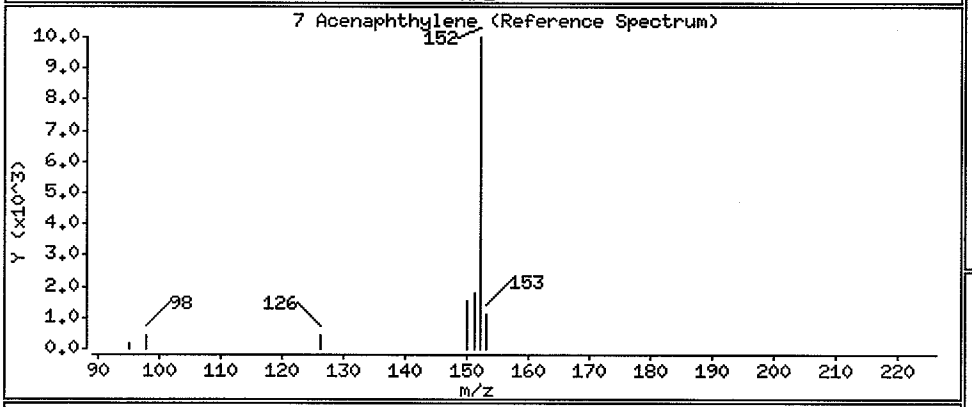
Concentration: 16.77 ug/kg

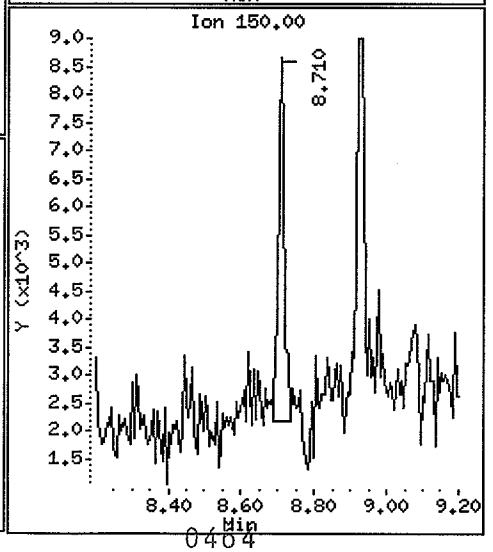


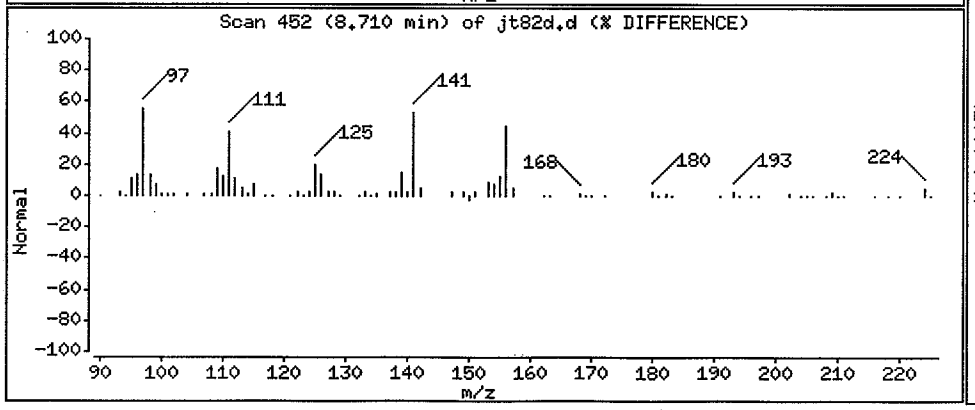












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

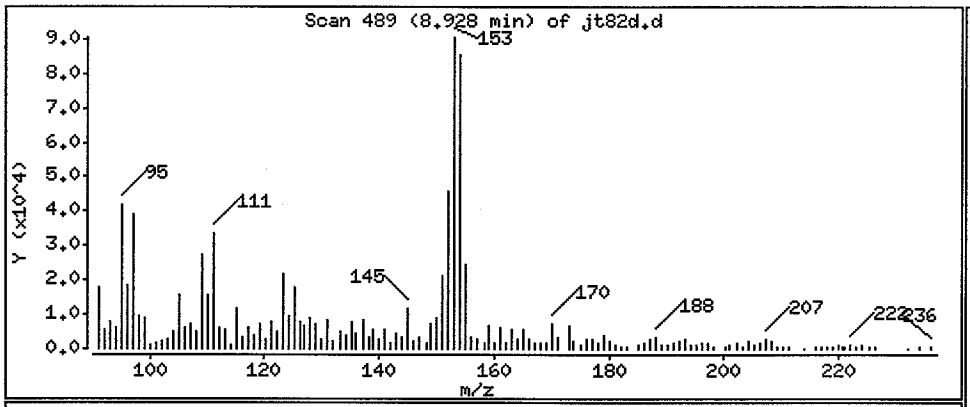
Operator: VTS

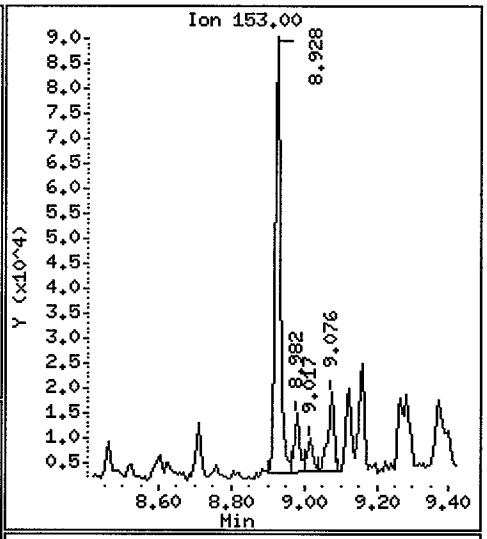
Column phase: ZB-5

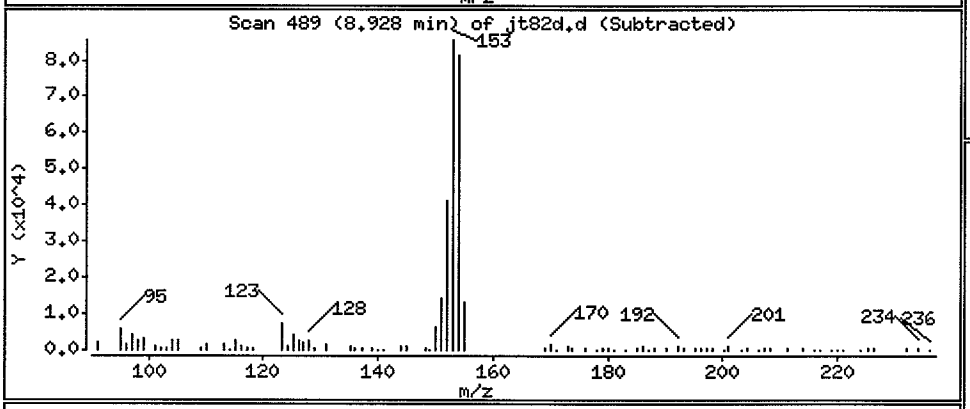
Column diameter: 0.25

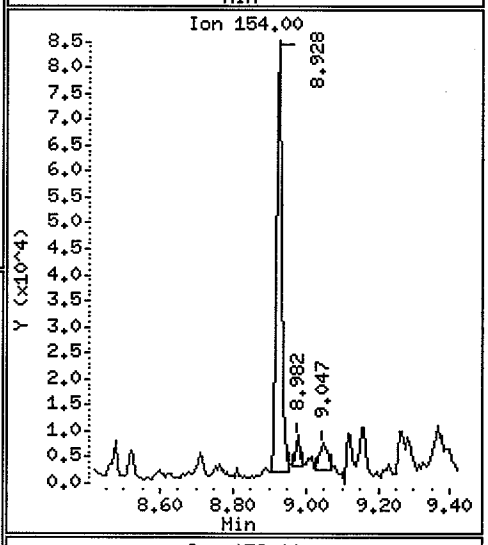
9 Acenaphthene

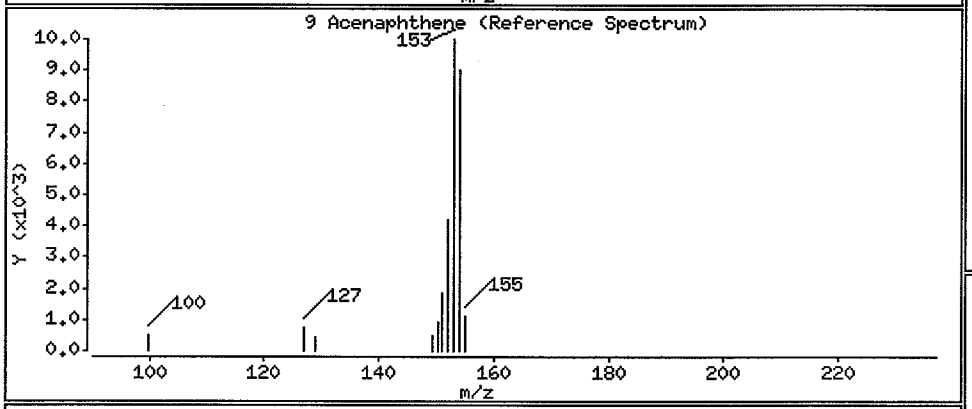
Concentration: 44.86 ug/kg

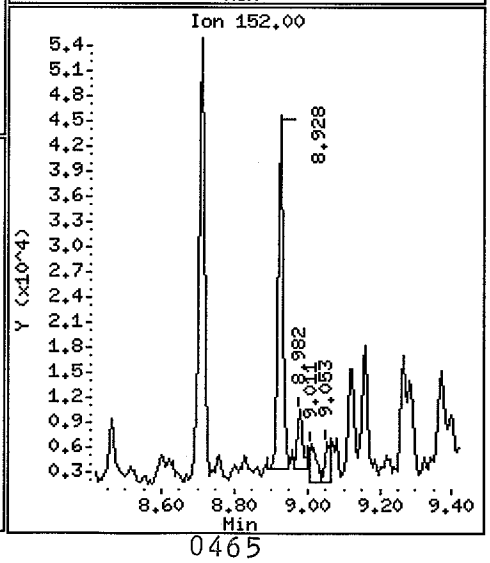


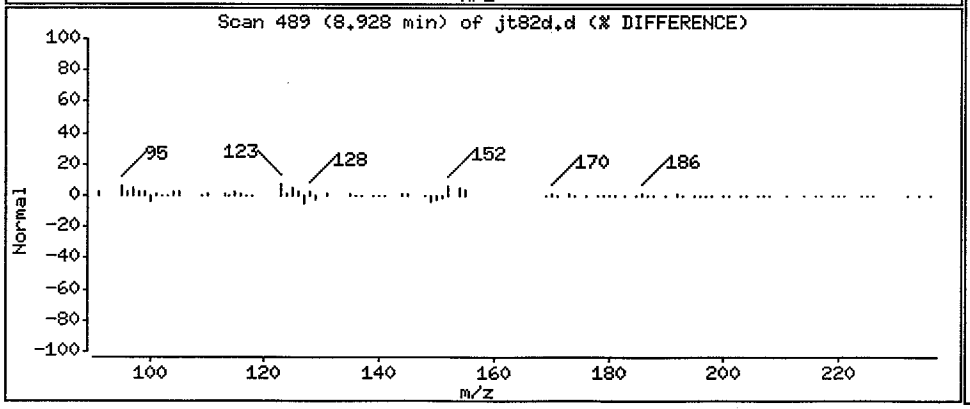












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

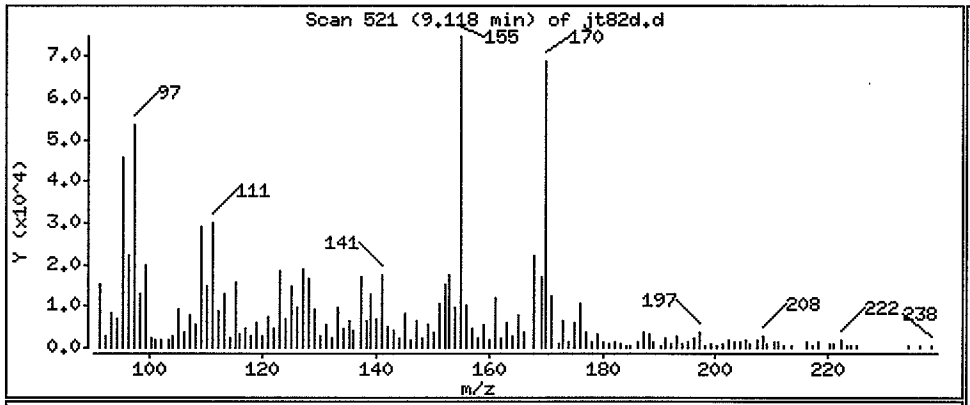
Operator: VTS

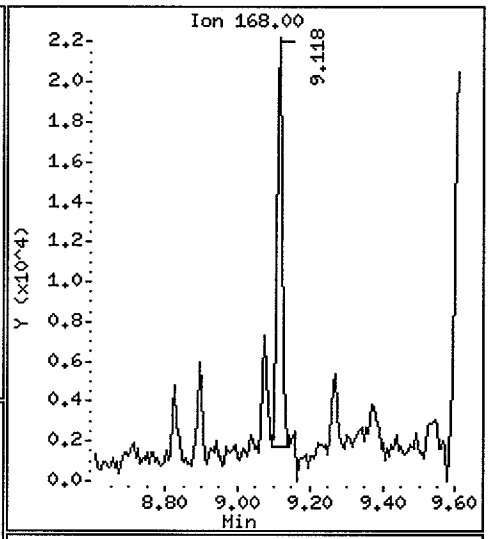
Column phase: ZB-5

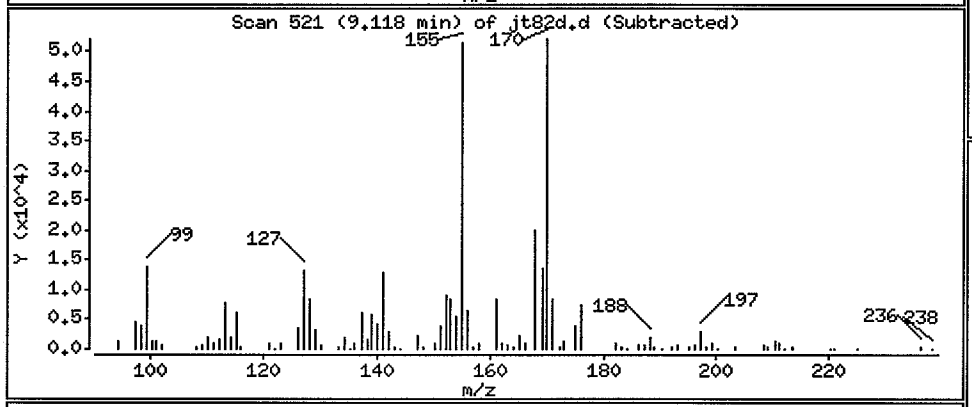
Column diameter: 0.25

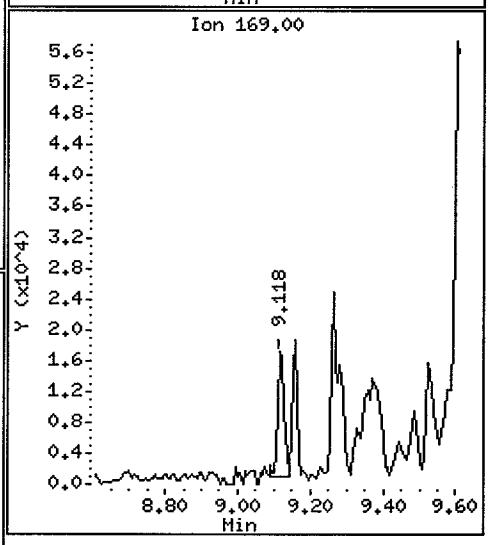
10 Dibenzofuran

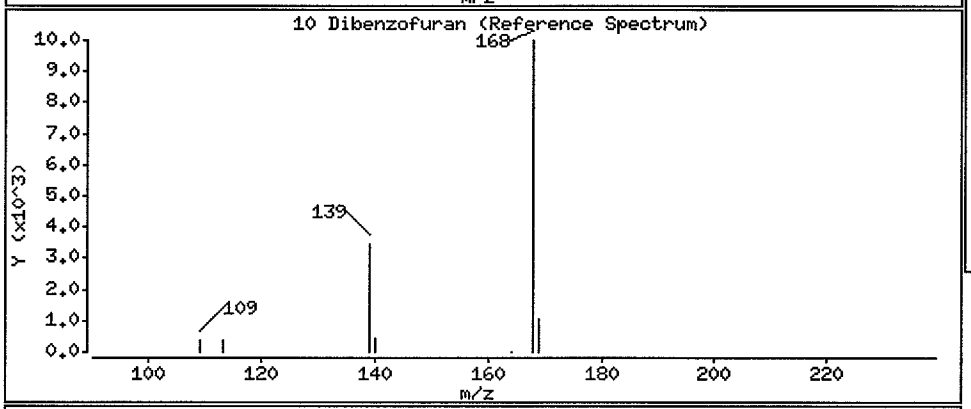
Concentration: 7.154 ug/kg

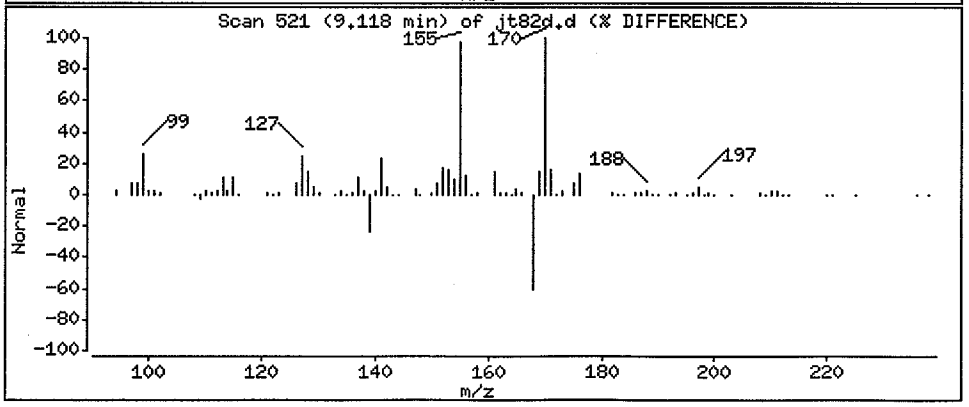












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

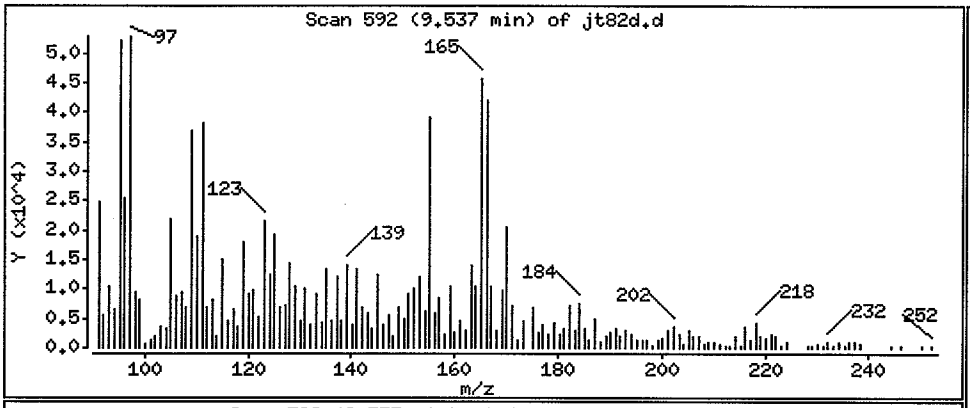
Operator: VTS

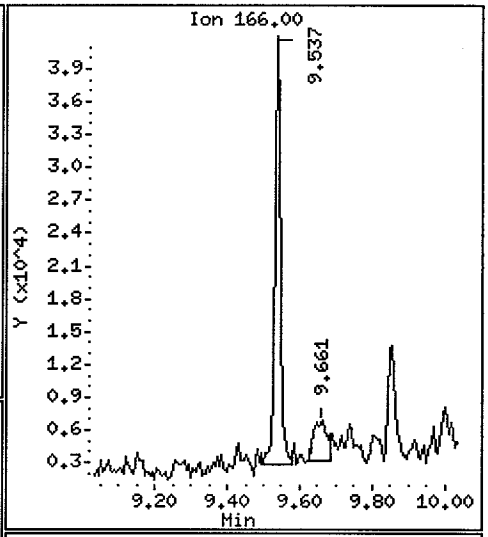
Column phase: ZB-5

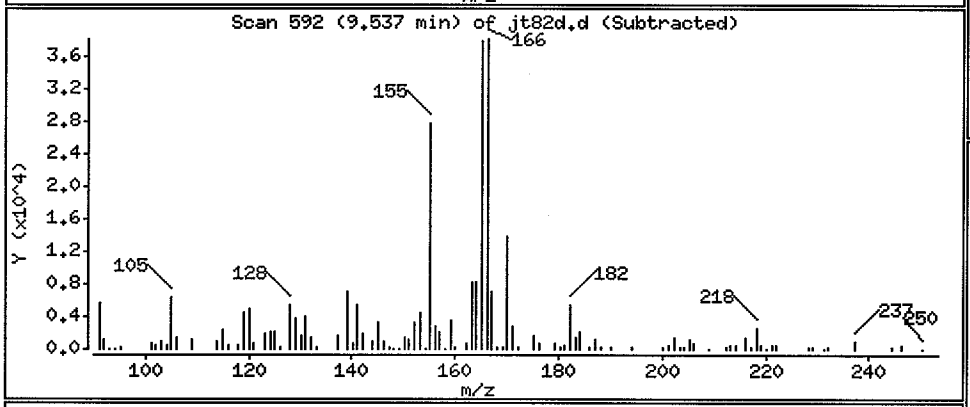
Column diameter: 0.25

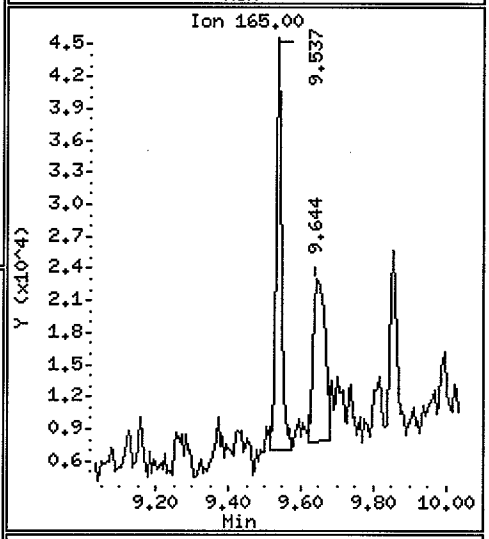
11 Fluorene

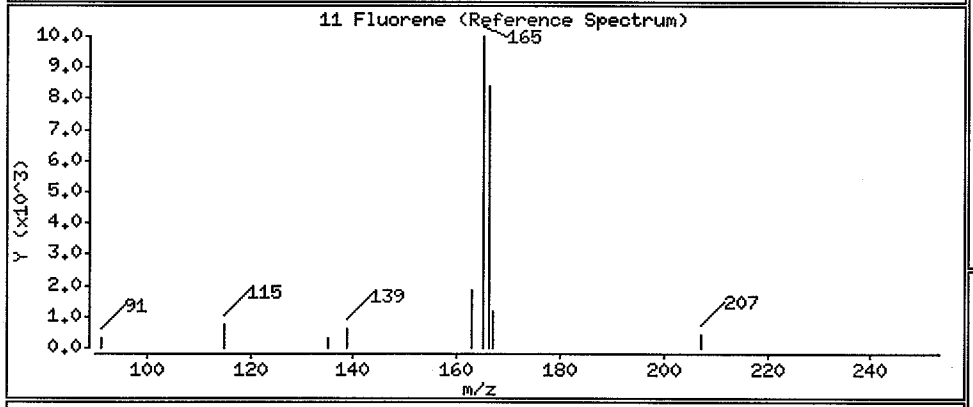
Concentration: 18.99 ug/kg

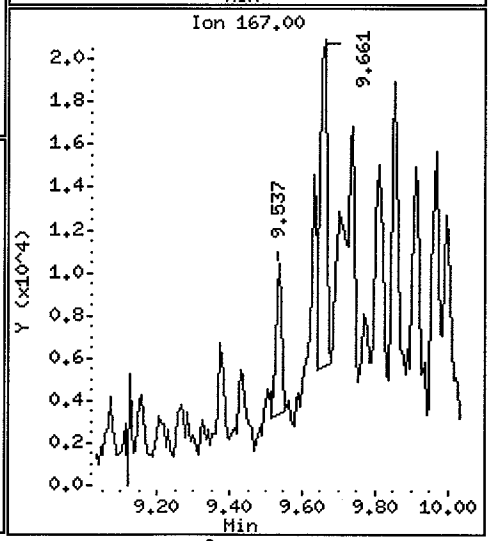


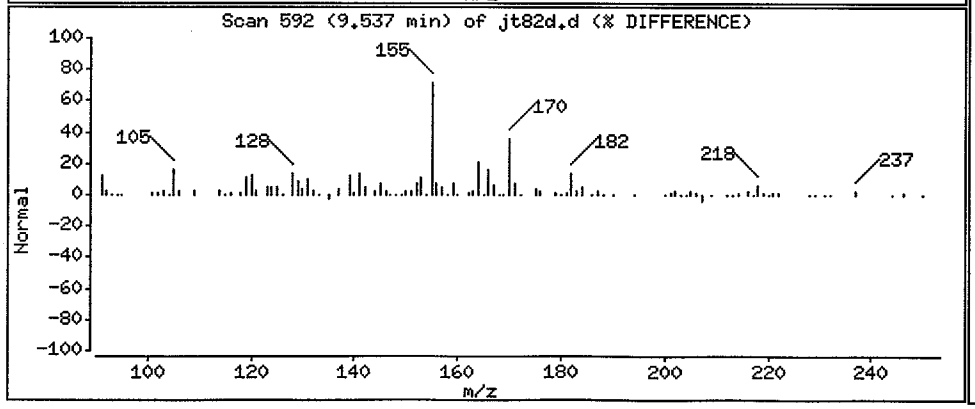












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

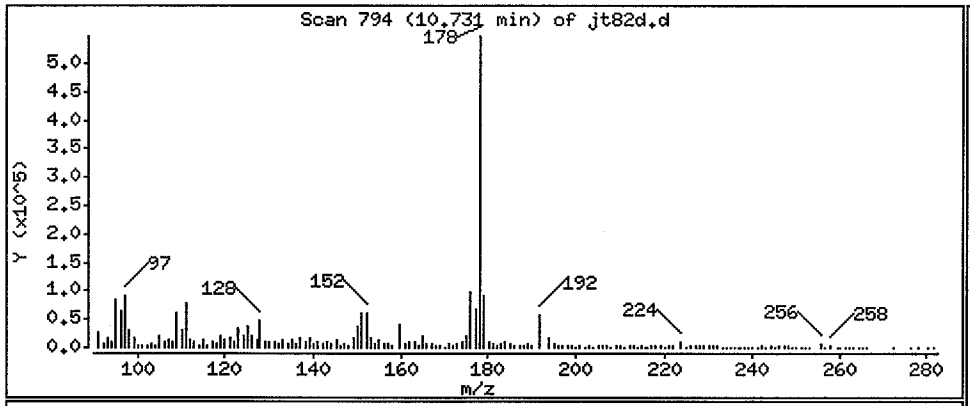
Operator: VTS

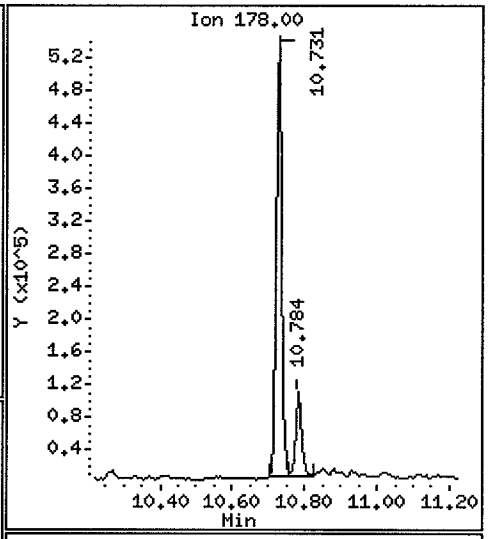
Column phase: ZB-5

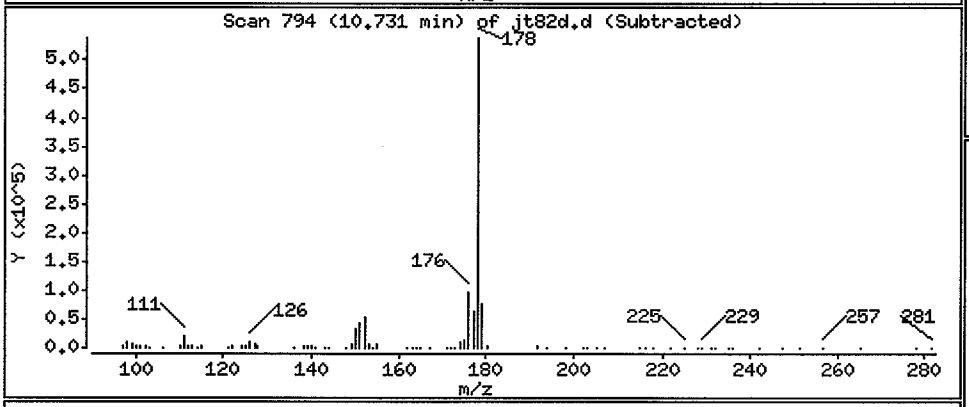
Column diameter: 0.25

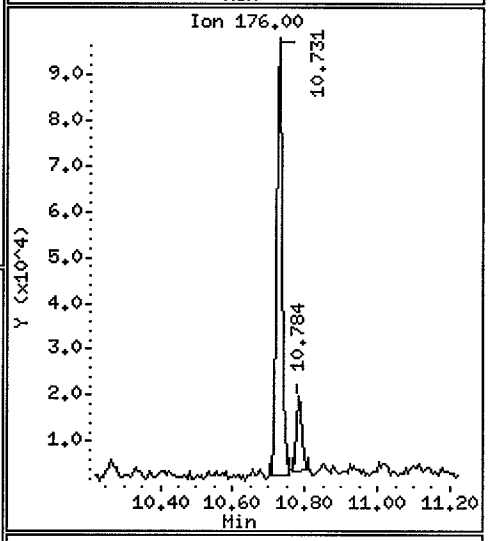
16 Phenanthrene

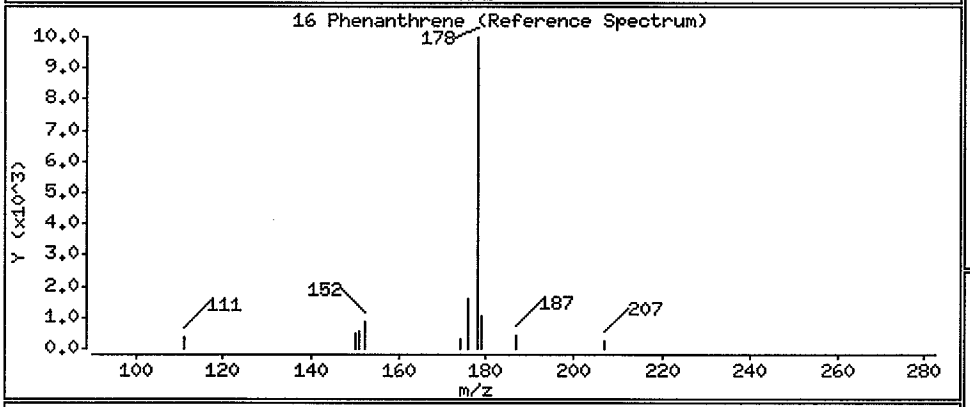
Concentration: 208.4 ug/kg

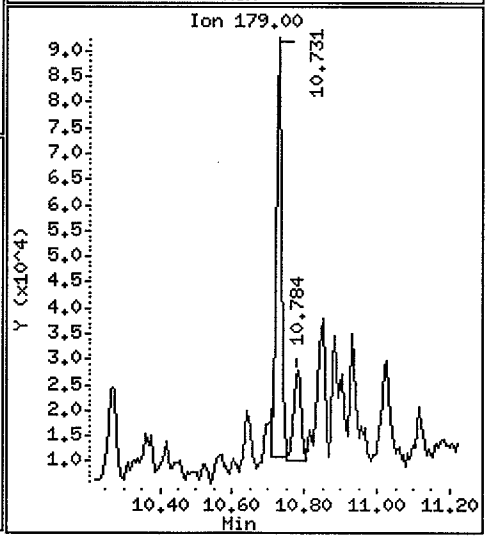


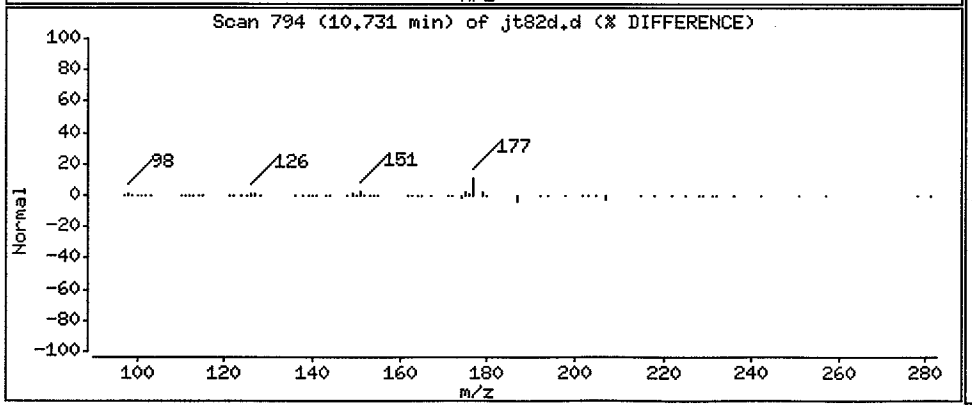












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

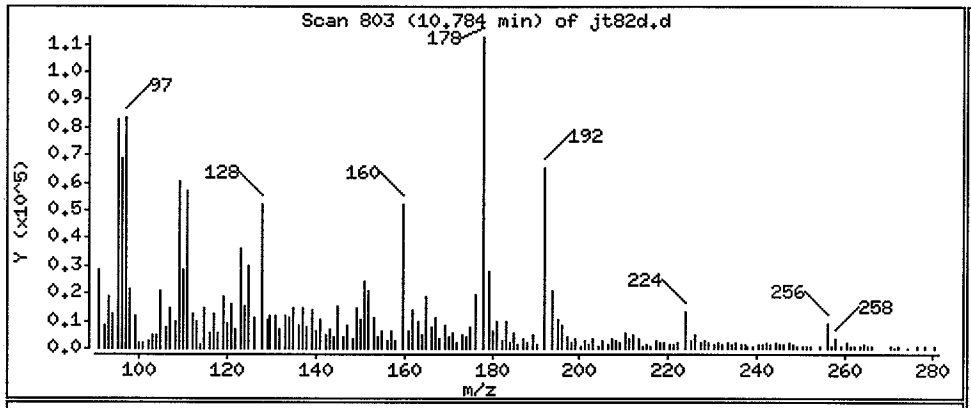
Operator: VTS

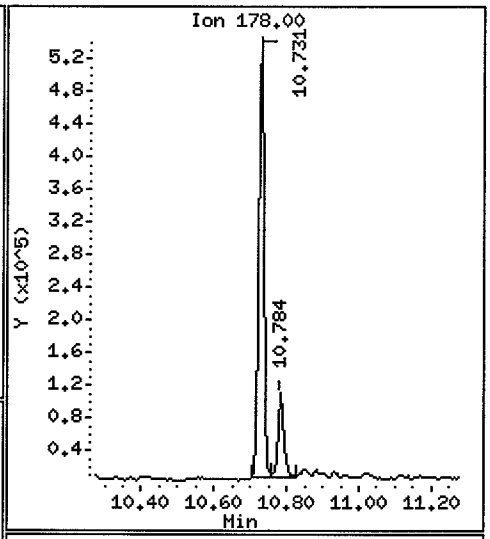
Column phase: ZB-5

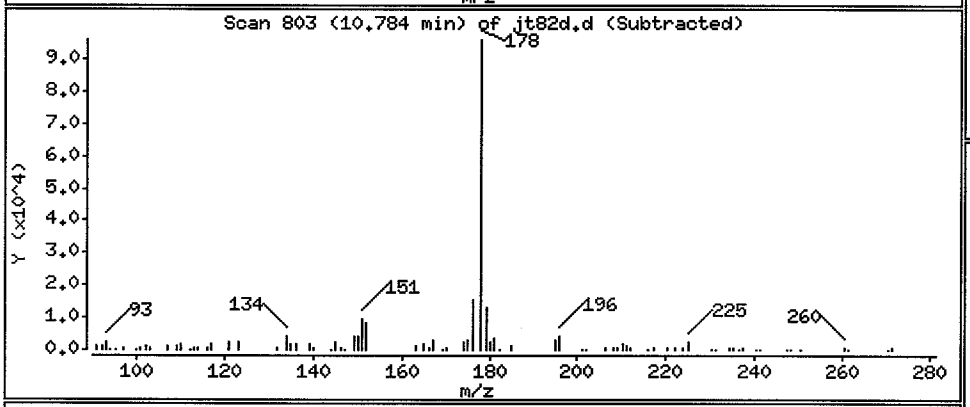
Column diameter: 0.25

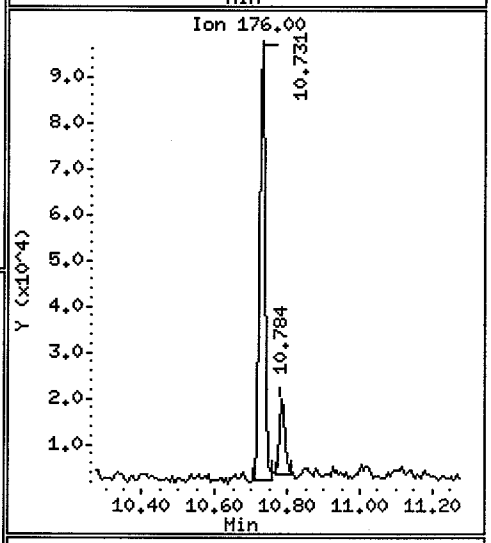
17 Anthracene

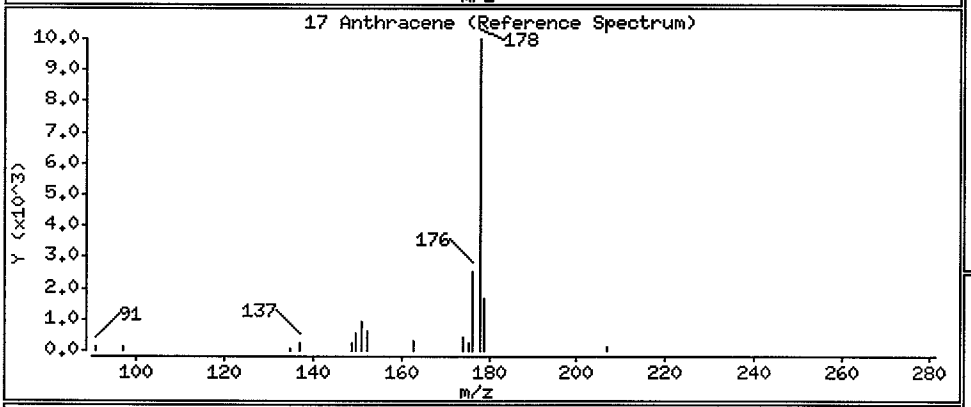
Concentration: 40.43 ug/kg

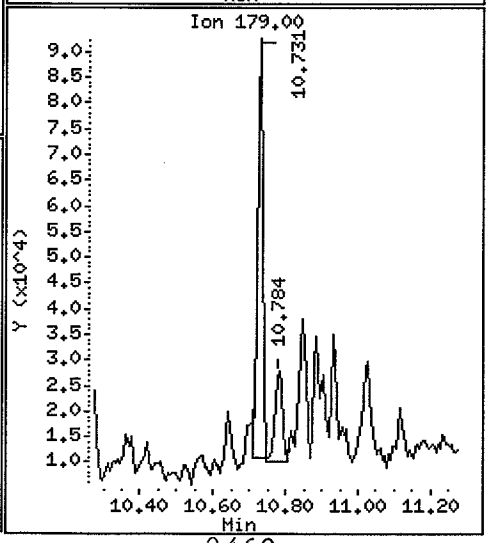


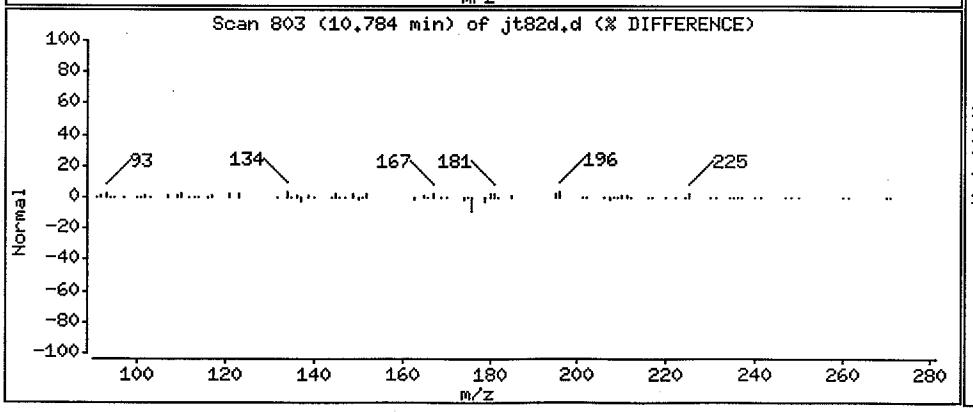












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

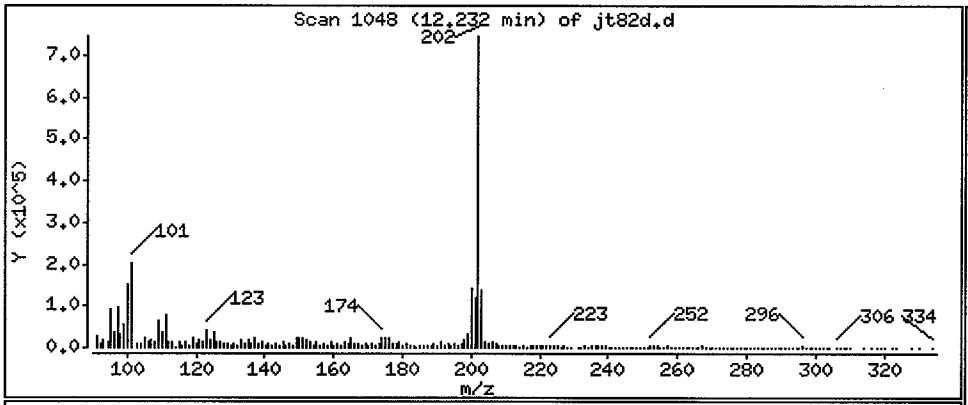
Operator: VTS

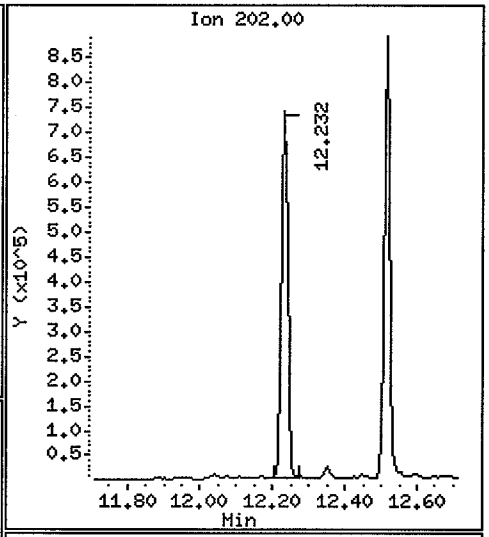
Column phase: ZB-5

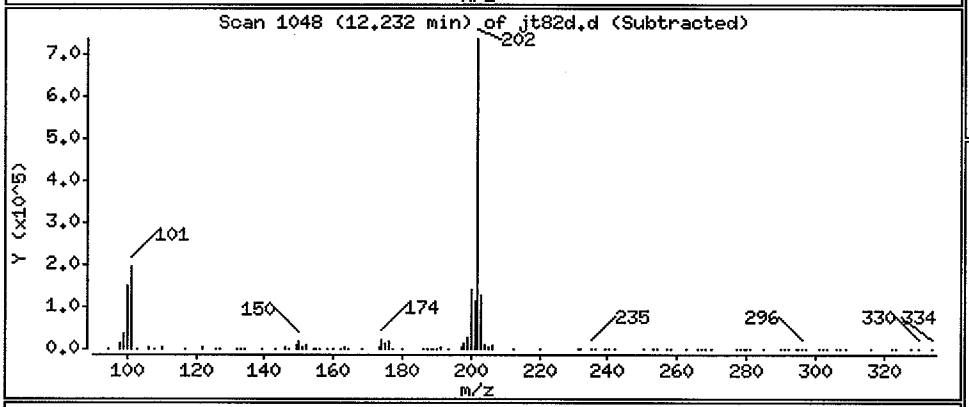
Column diameter: 0.25

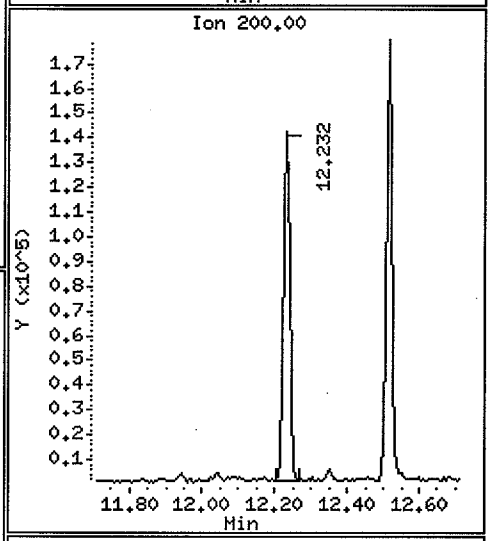
19 Fluoranthene

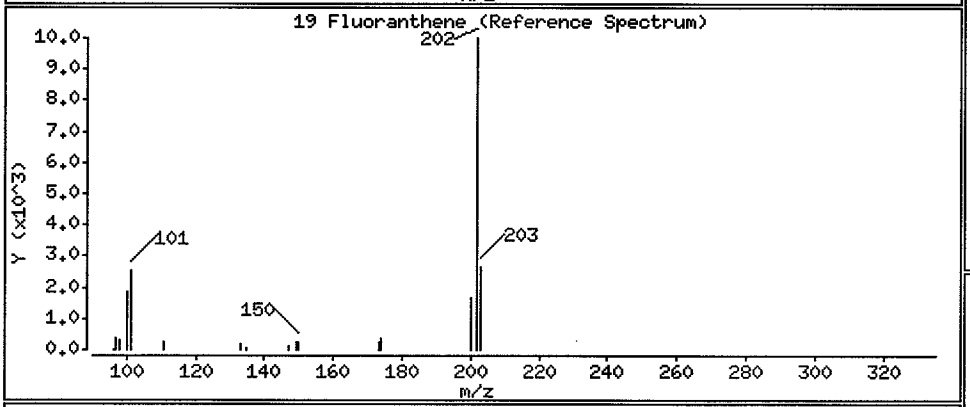
Concentration: 274.3 ug/kg

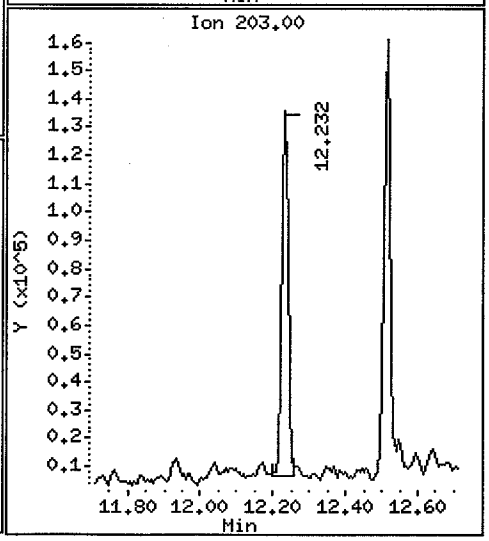


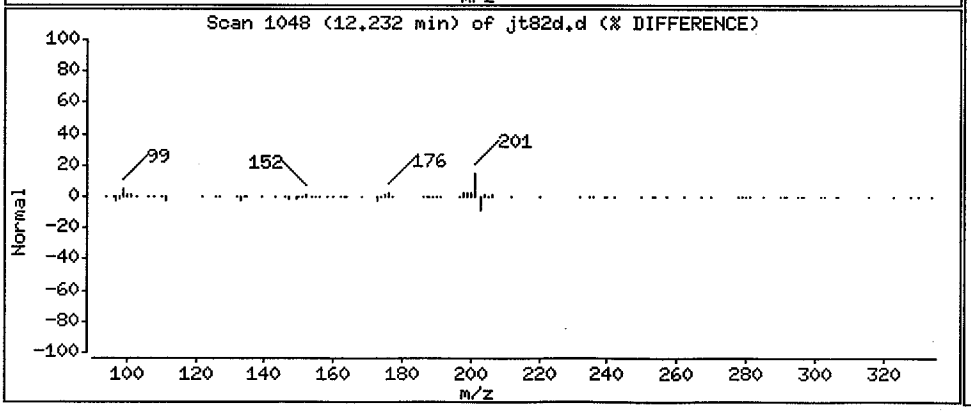












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

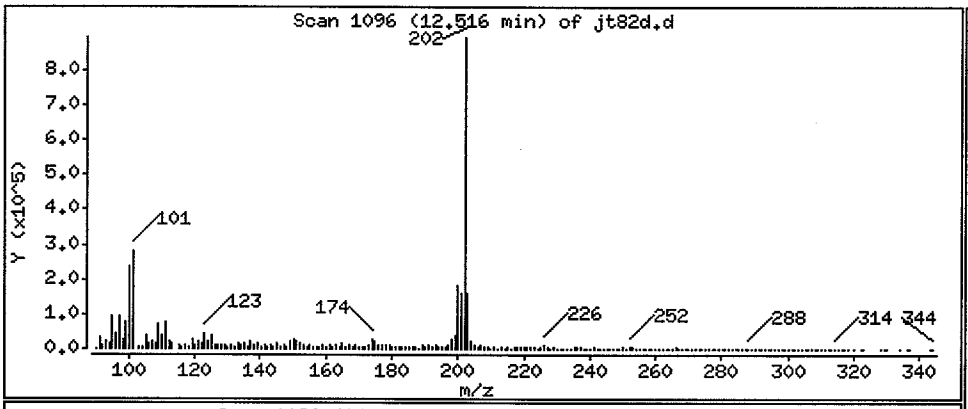
Operator: VTS

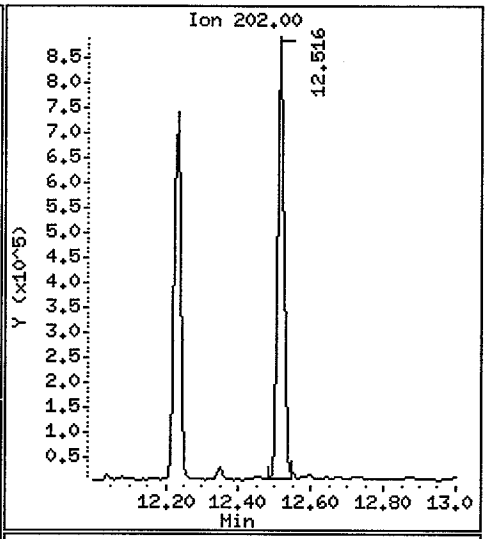
Column phase: ZB-5

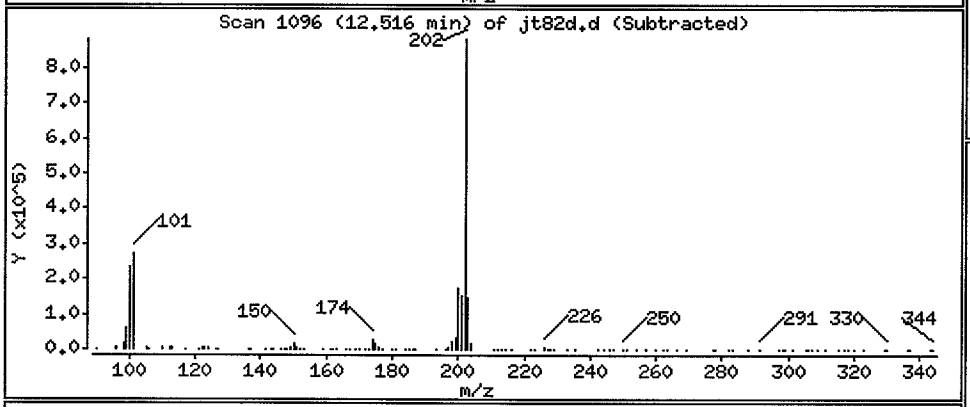
Column diameter: 0.25

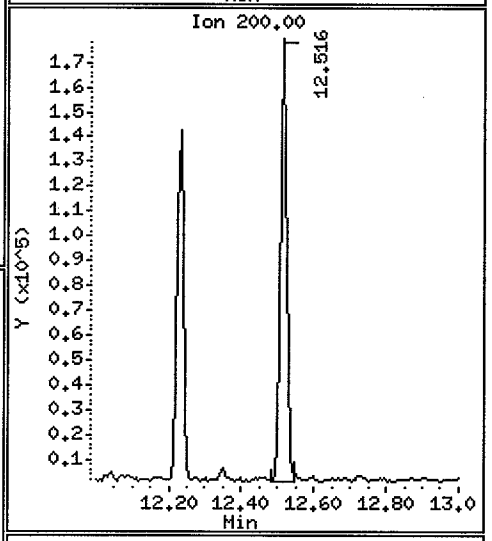
20 Pyrene

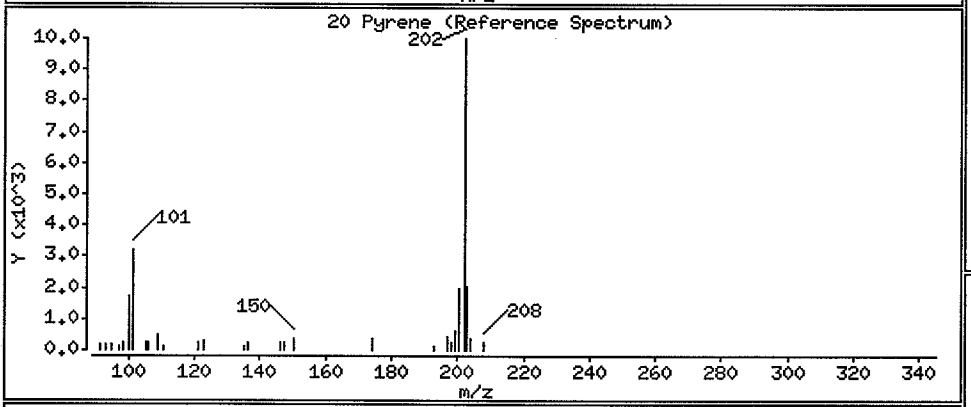
Concentration: 410.4 ug/kg

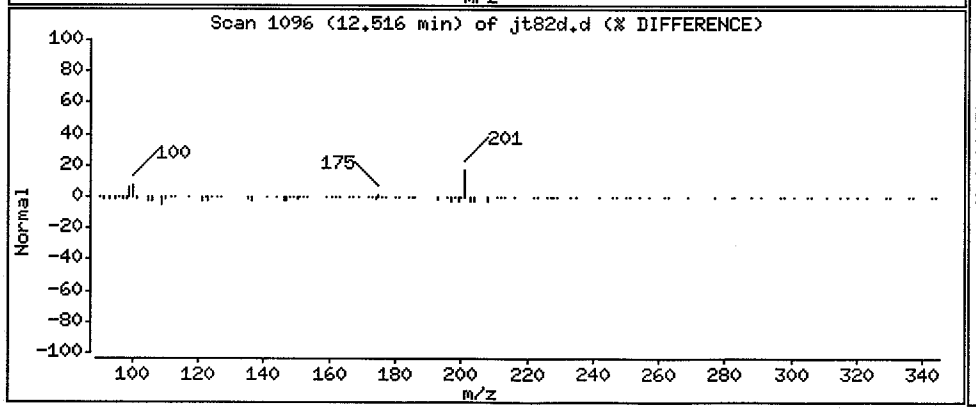


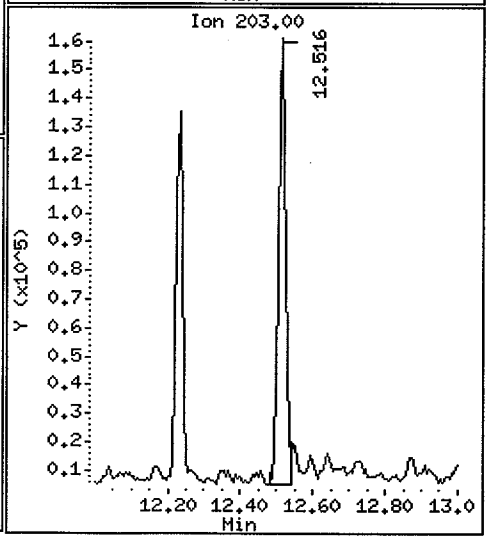












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

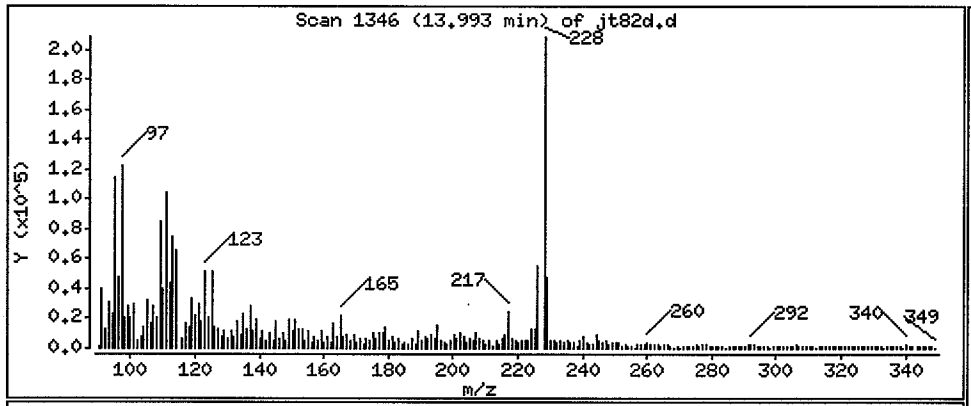
Operator: VTS

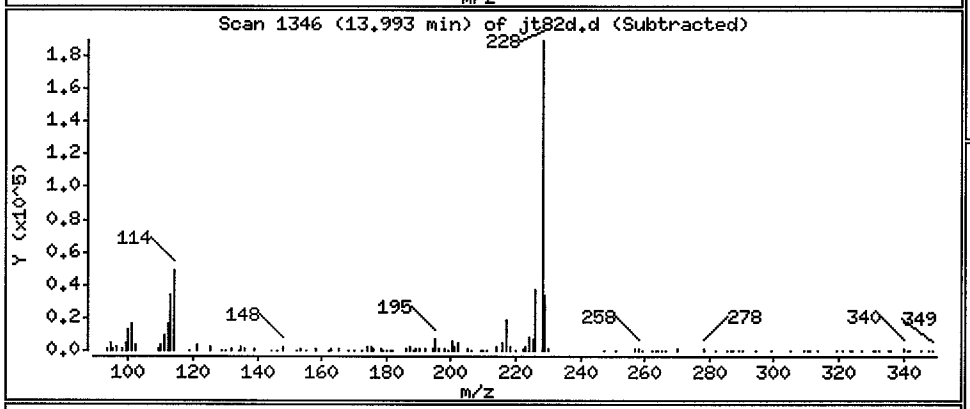
Column phase: ZB-5

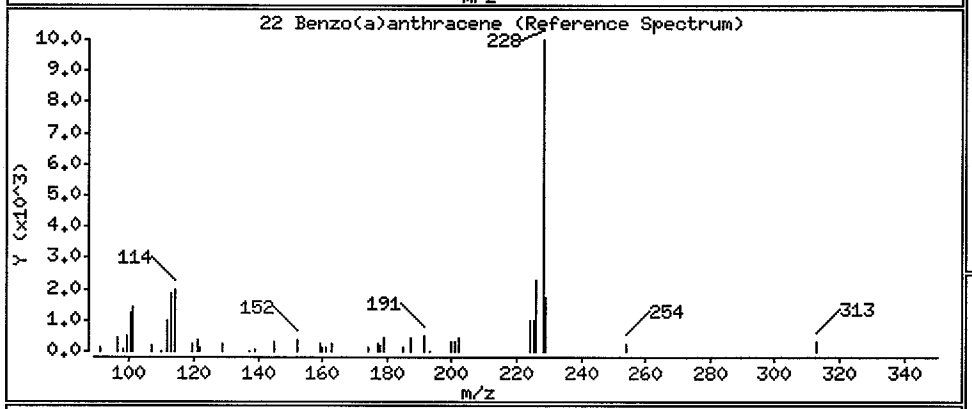
Column diameter: 0.25

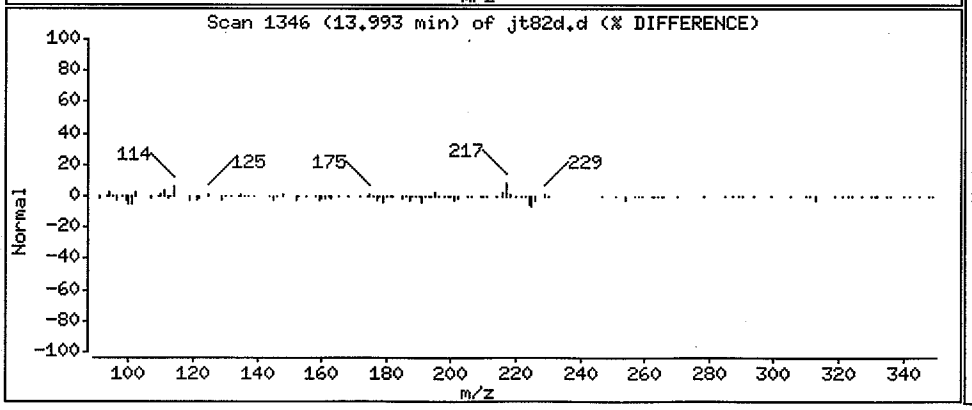
22 Benzo(a)anthracene

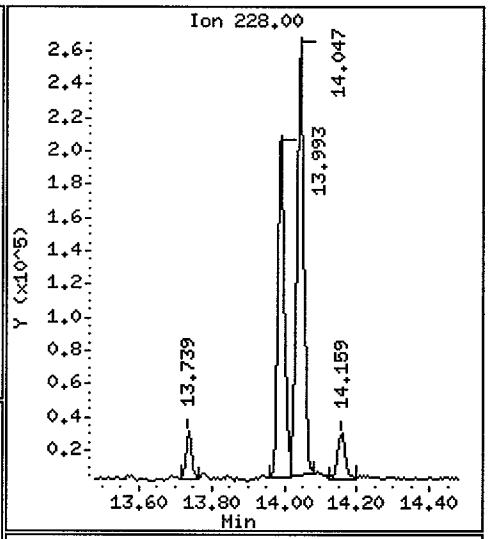
Concentration: 111.1 ug/kg

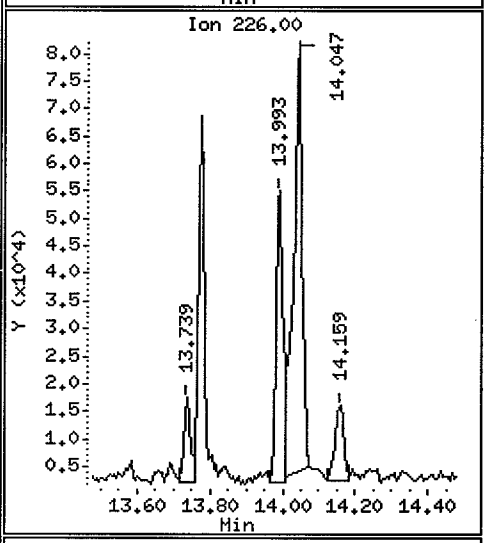


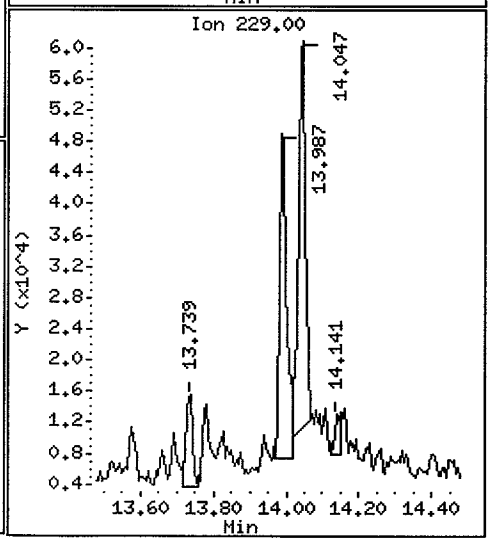












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

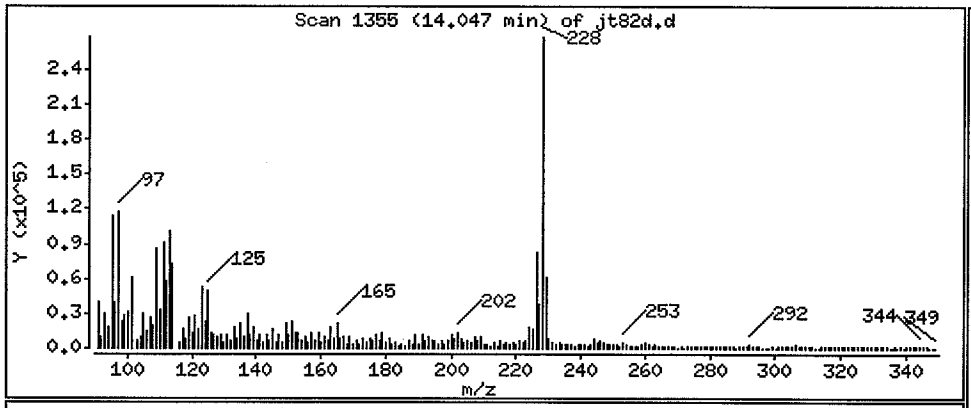
Operator: VTS

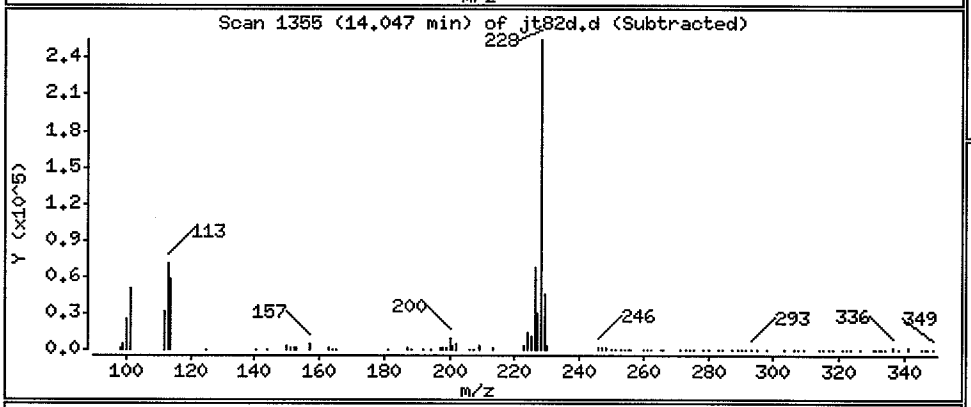
Column phase: ZB-5

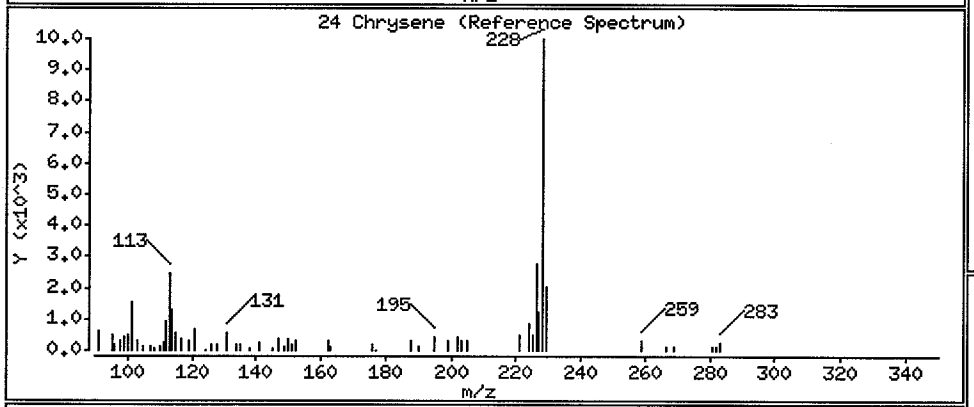
Column diameter: 0.25

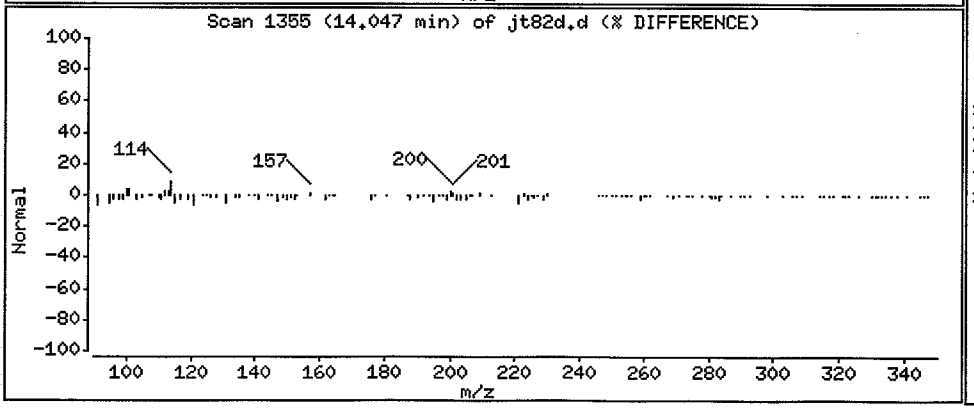
24 Chrysene

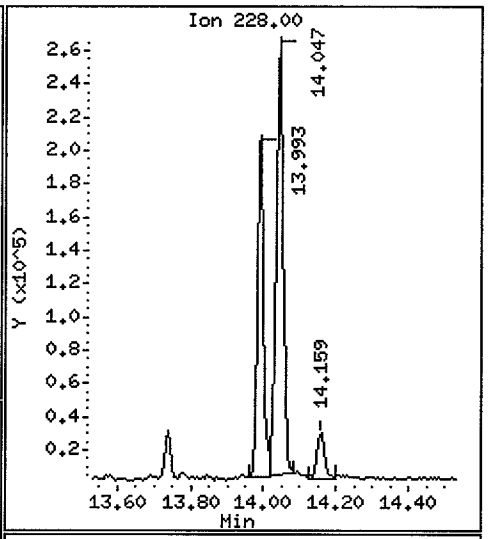
Concentration: 163.1 ug/kg

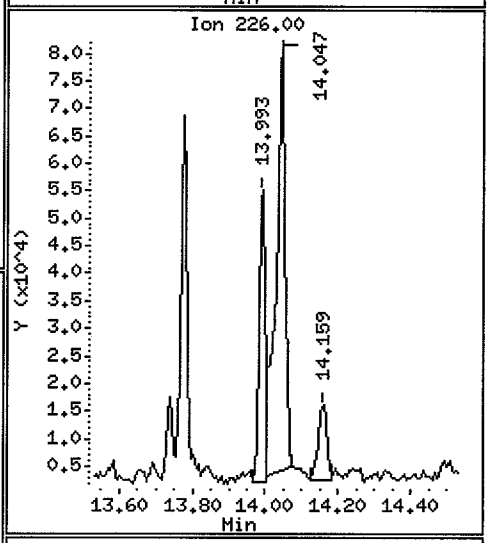


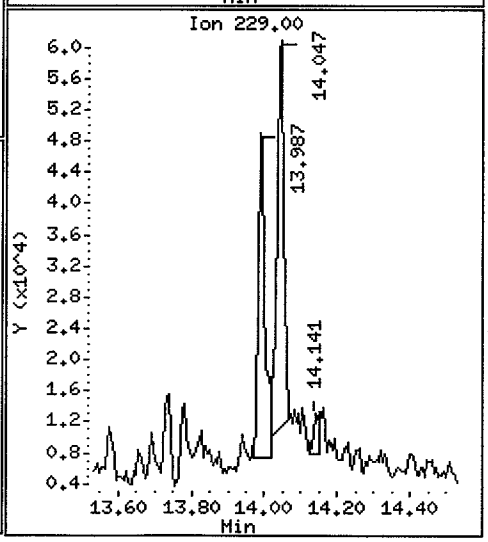












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

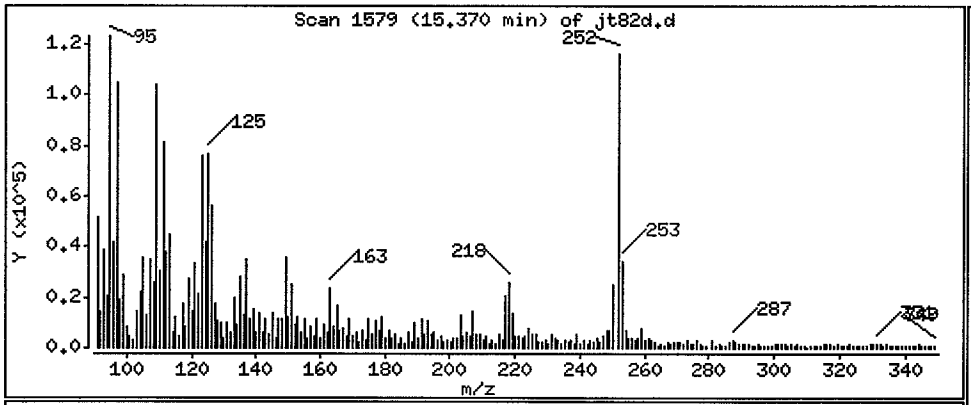
Operator: VTS

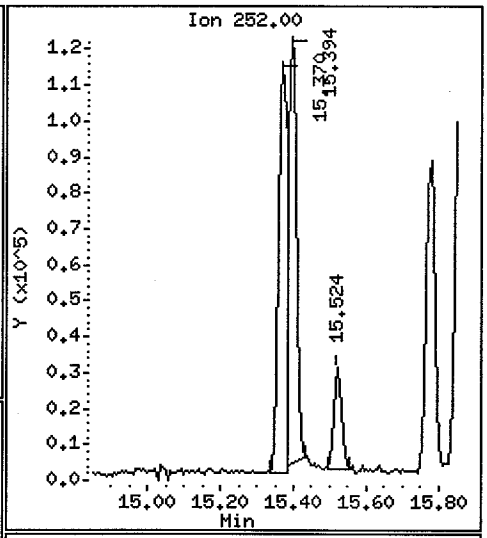
Column phase: ZB-5

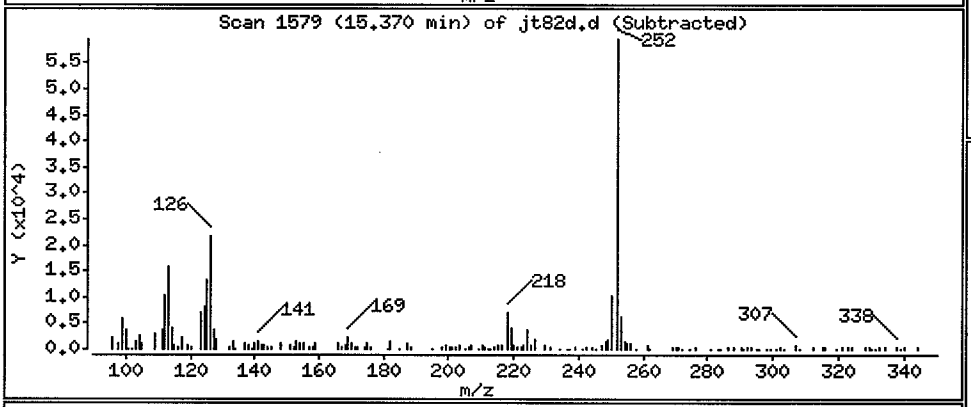
Column diameter: 0.25

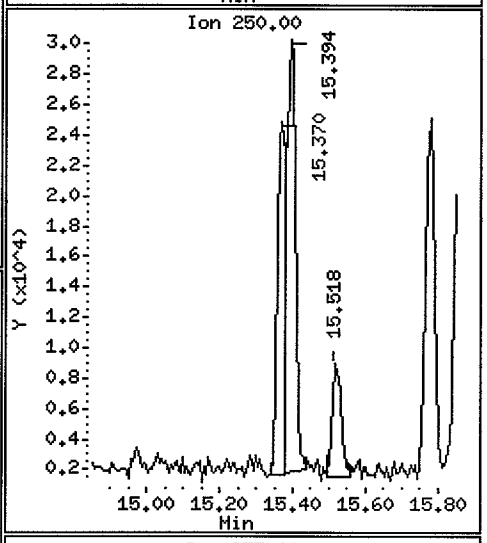
28 Benzo(b)fluoranthene

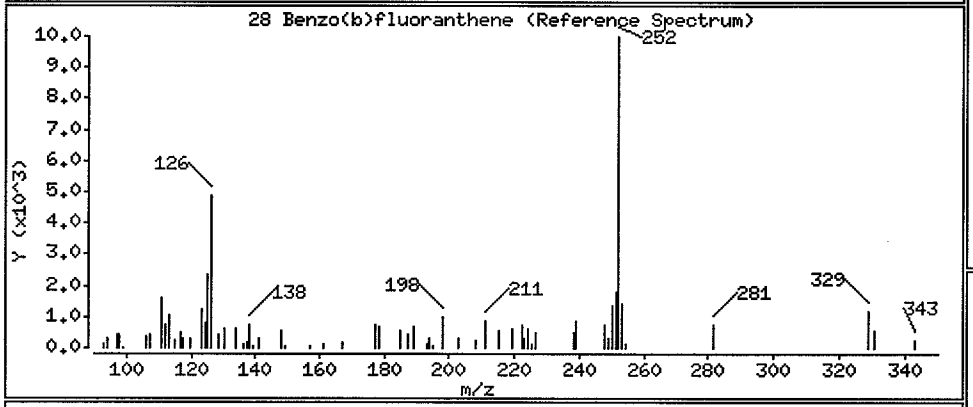
Concentration: 122.1 ug/kg

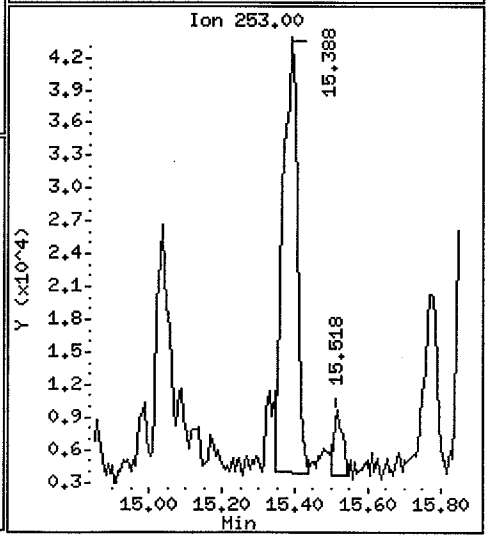


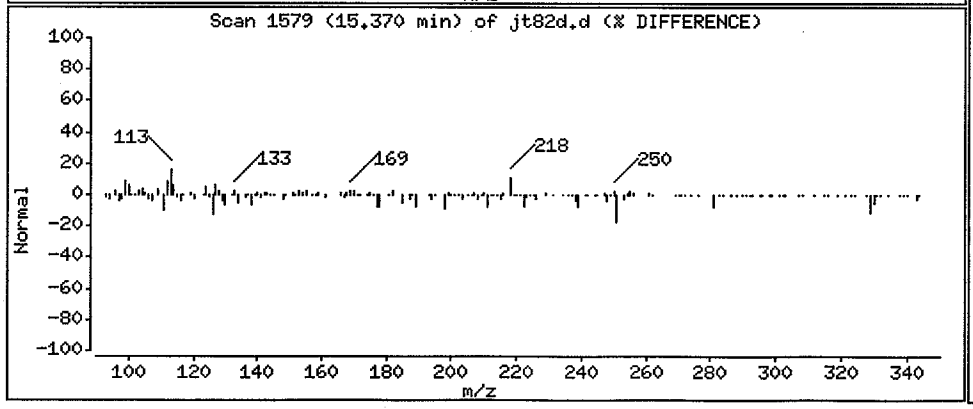












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

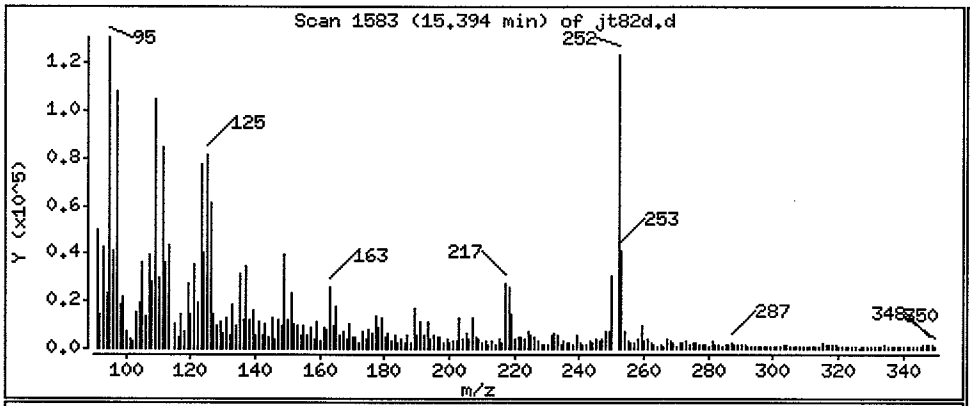
Operator: VTS

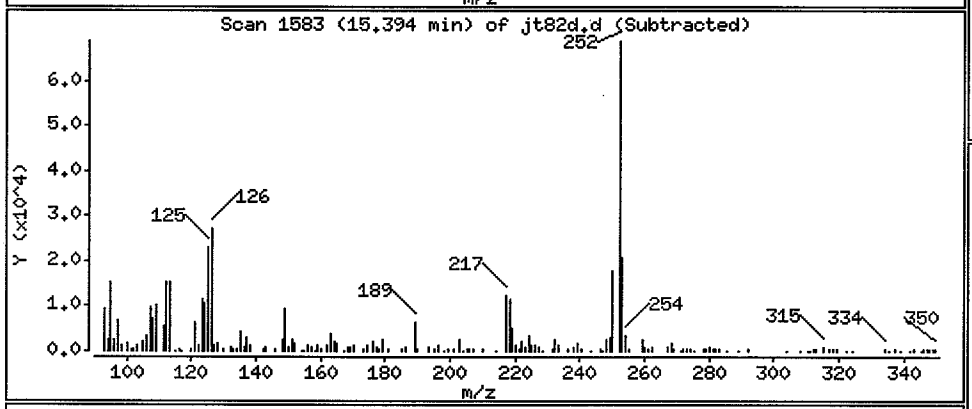
Column phase: ZB-5

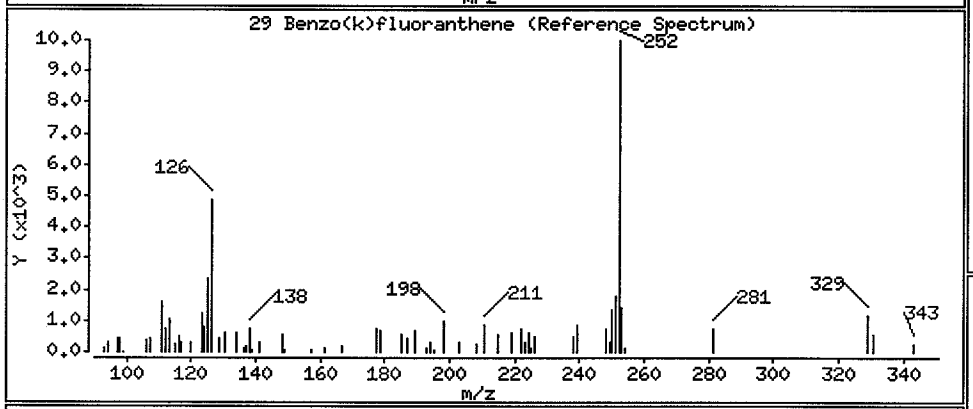
Column diameter: 0.25

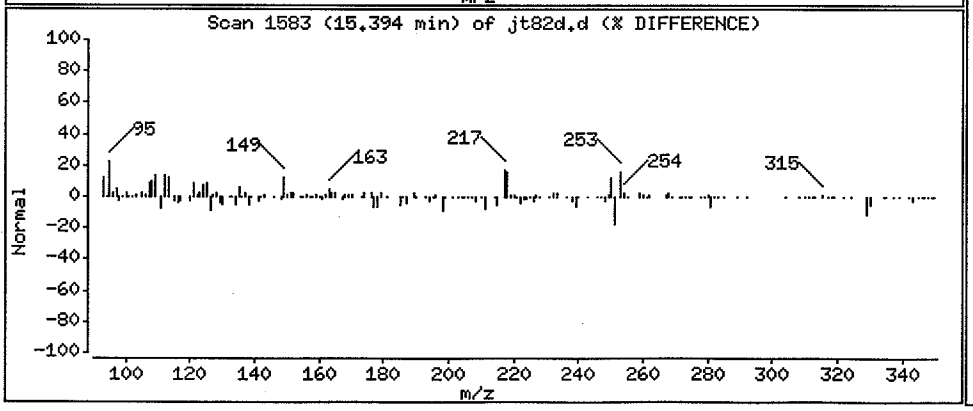
29 Benzo(k)fluoranthene

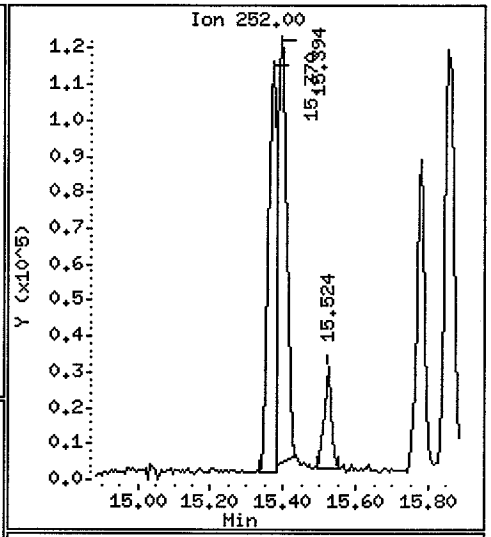
Concentration: 130.0 ug/kg

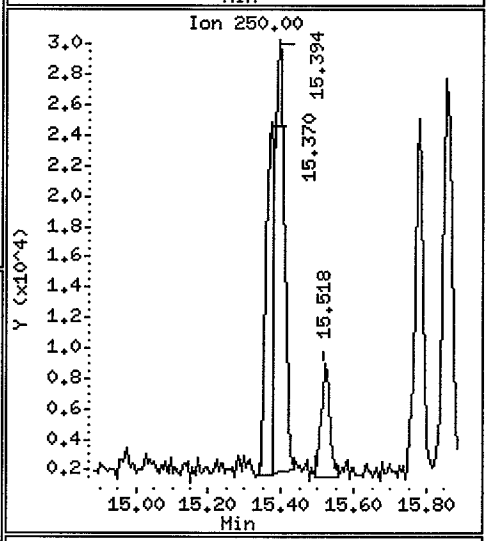


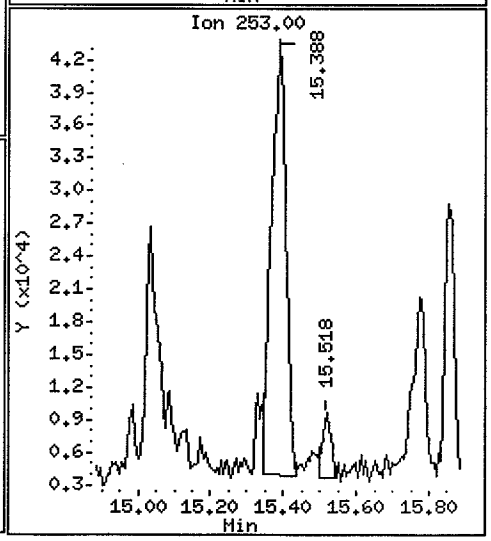












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

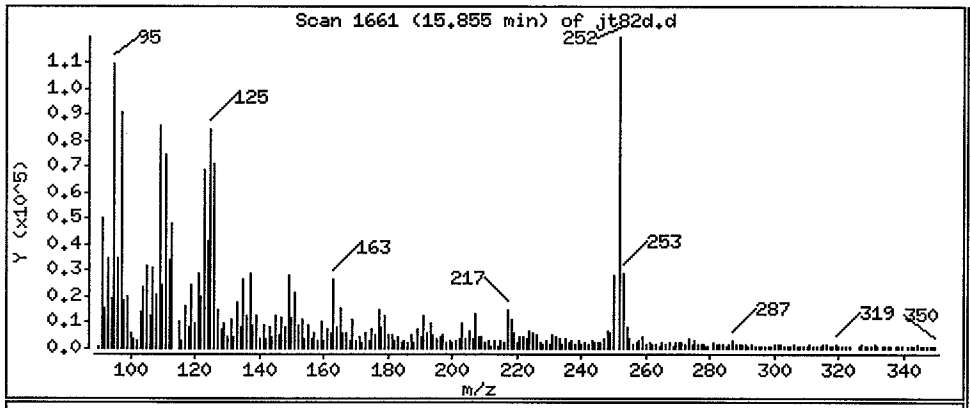
Operator: VTS

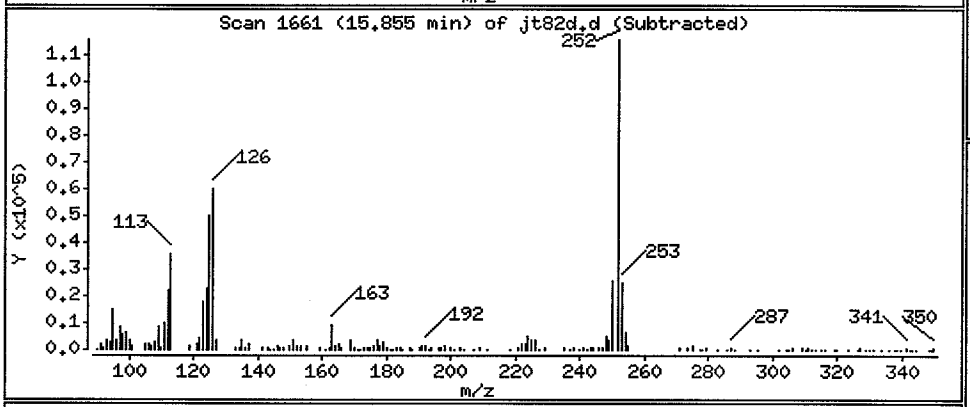
Column phase: ZB-5

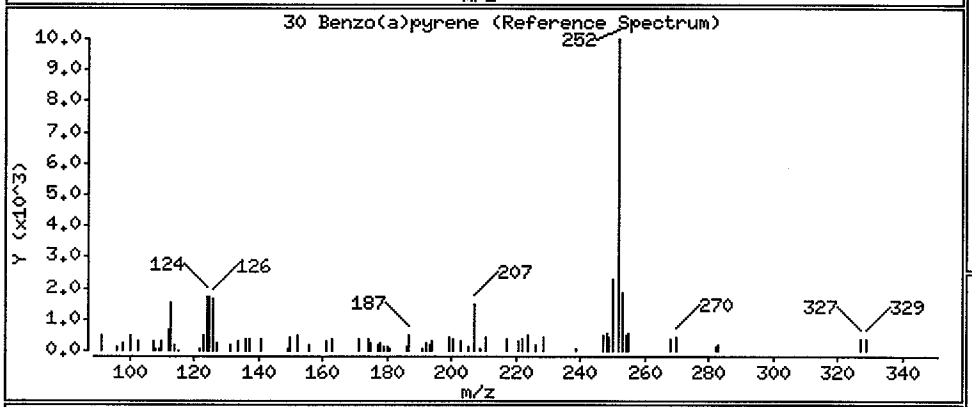
Column diameter: 0.25

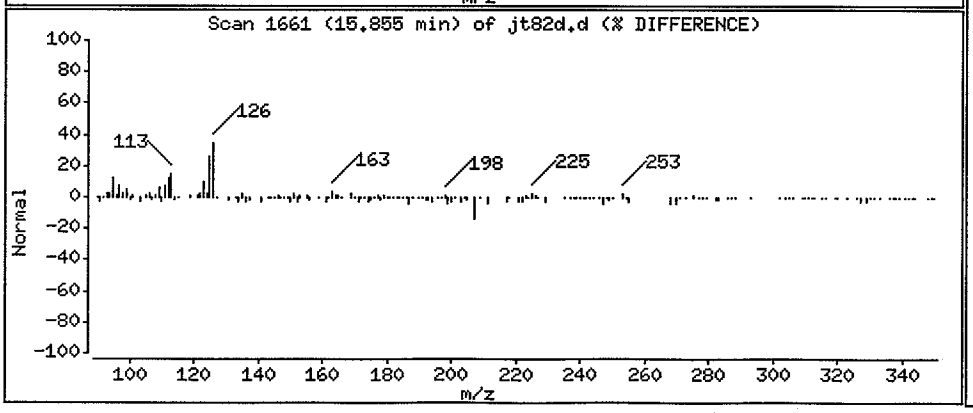
30 Benzo(a)pyrene

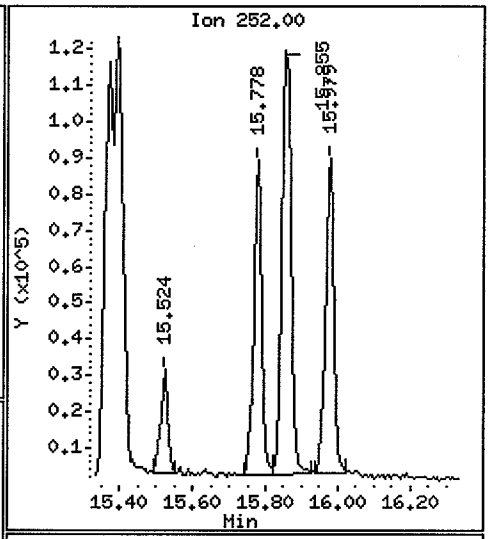
Concentration: 136.9 ug/kg

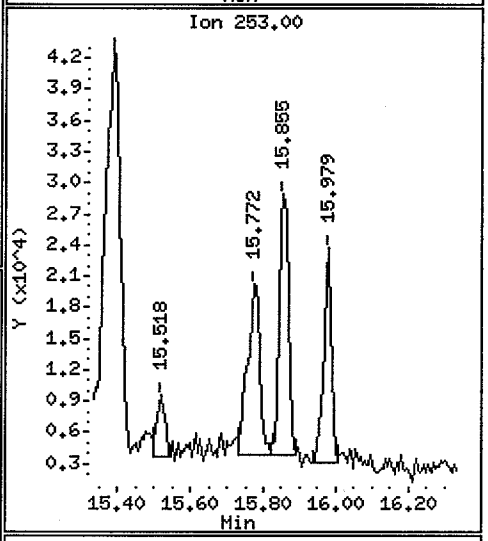


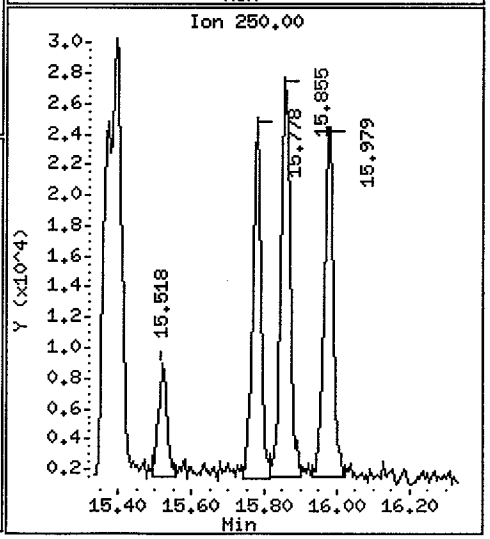












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

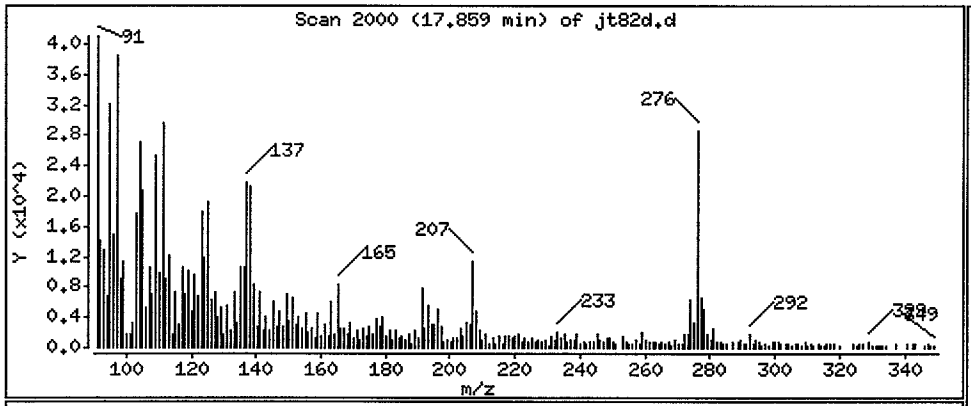
Operator: VTS

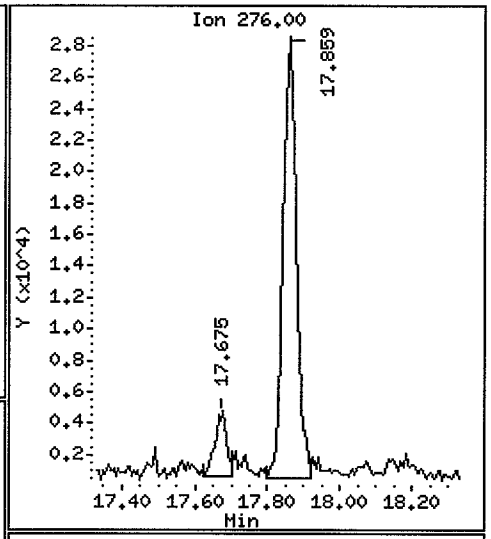
Column phase: ZB-5

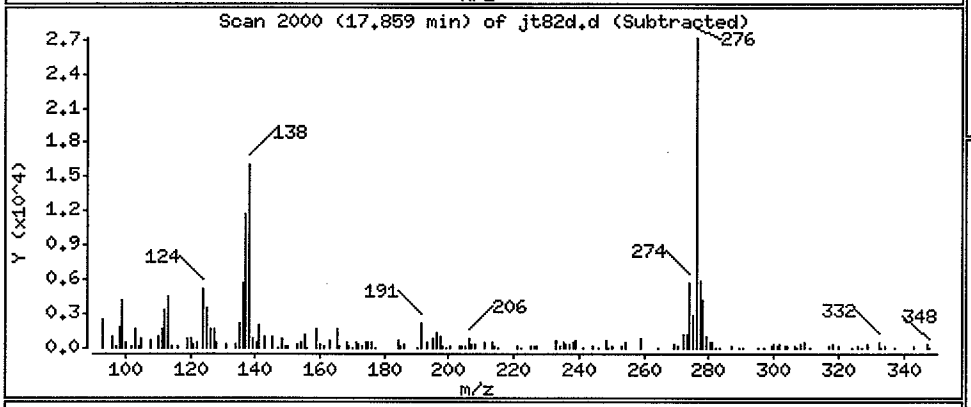
Column diameter: 0.25

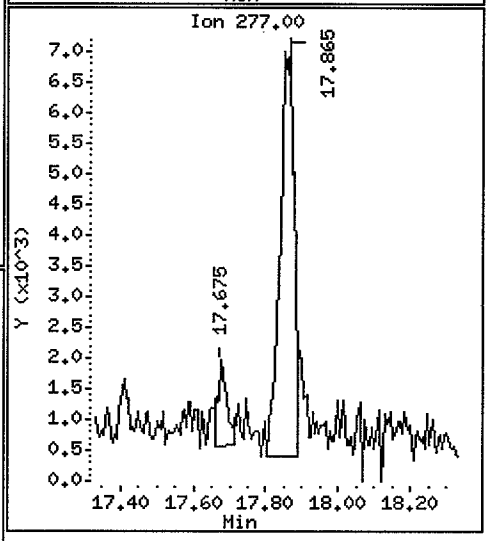
33 Indeno(1,2,3-cd)pyrene

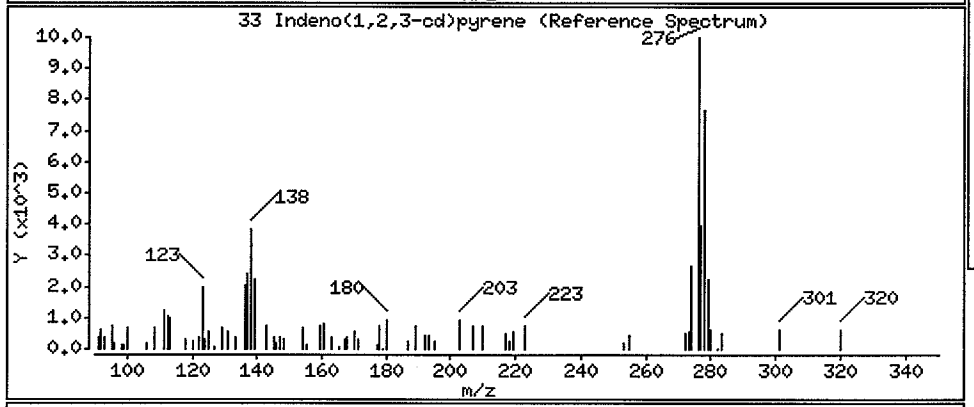
Concentration: 42.38 ug/kg

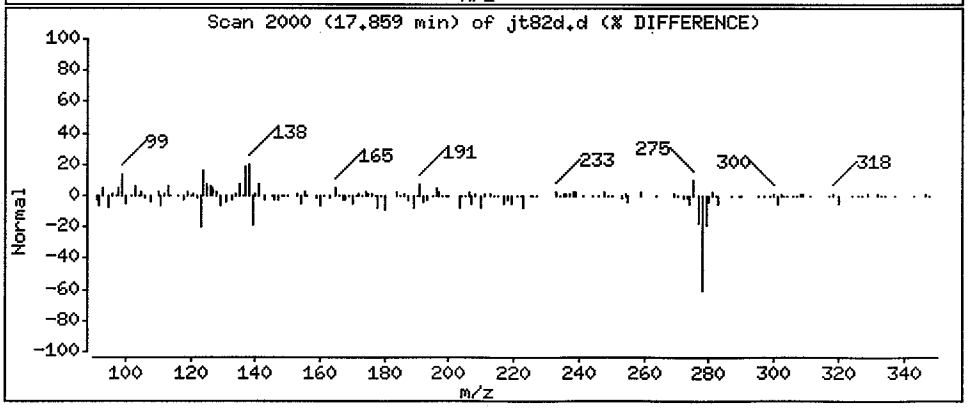












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

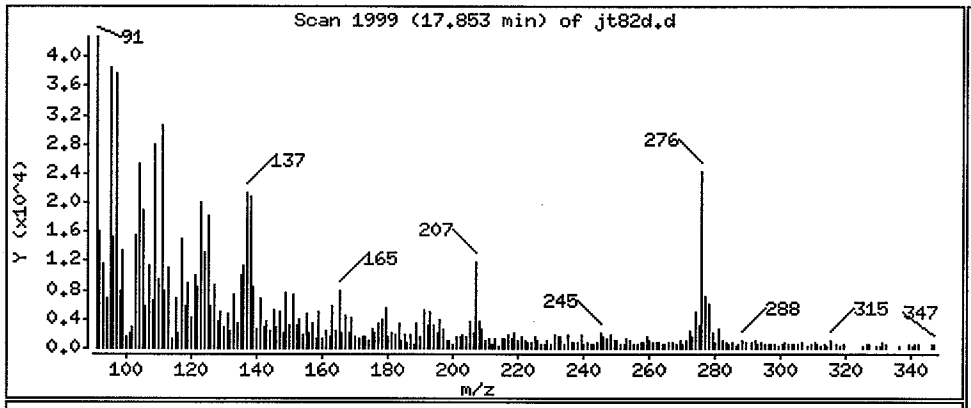
Operator: VTS

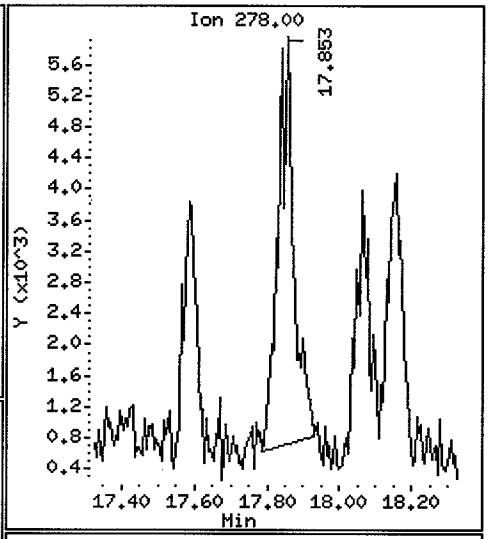
Column phase: ZB-5

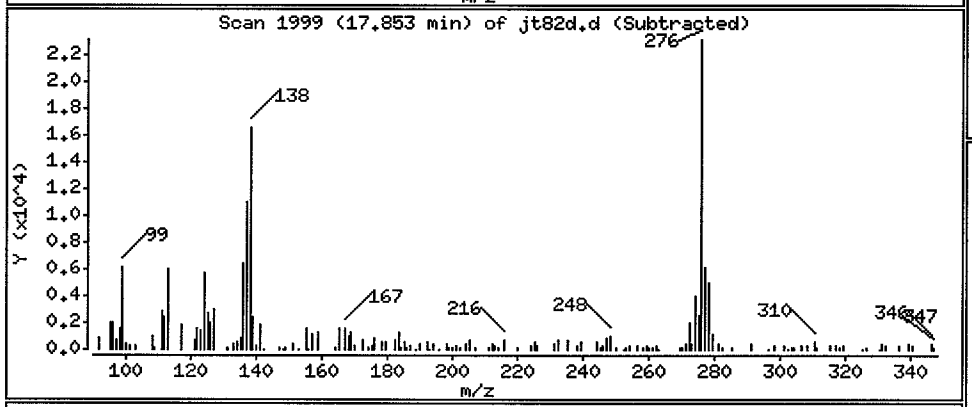
Column diameter: 0.25

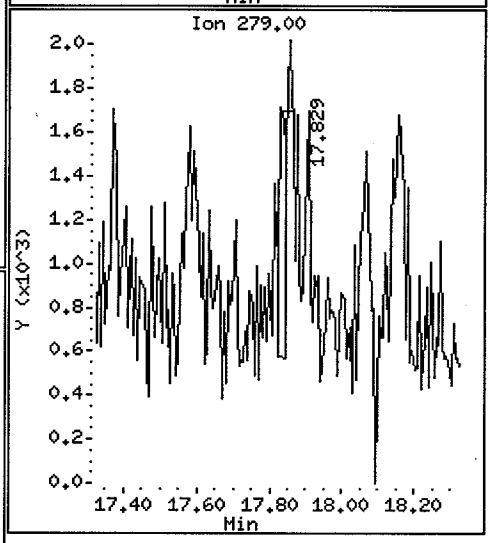
34 Dibenz(a,h)anthracene

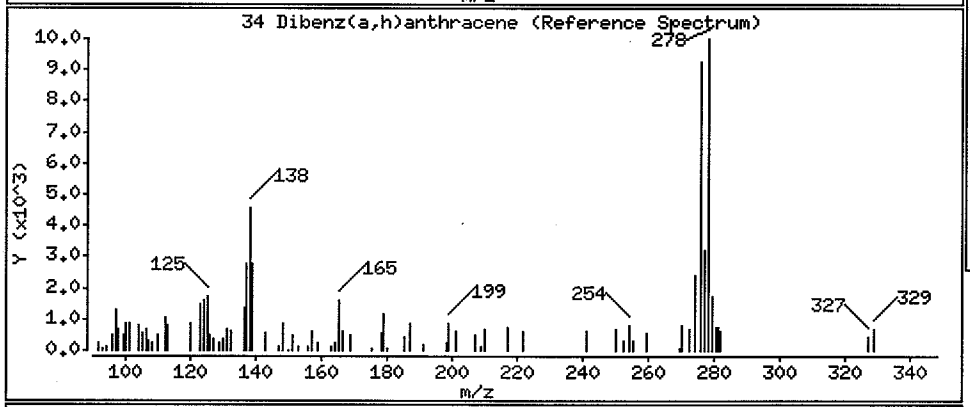
Concentration: 11.55 ug/kg

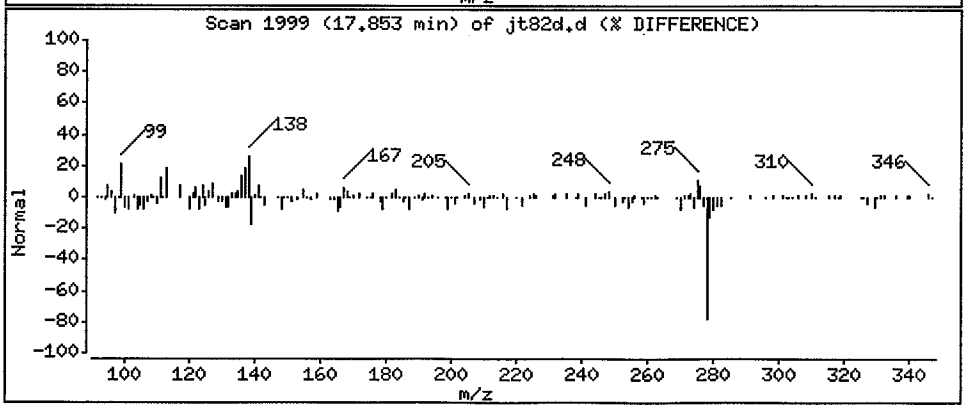












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

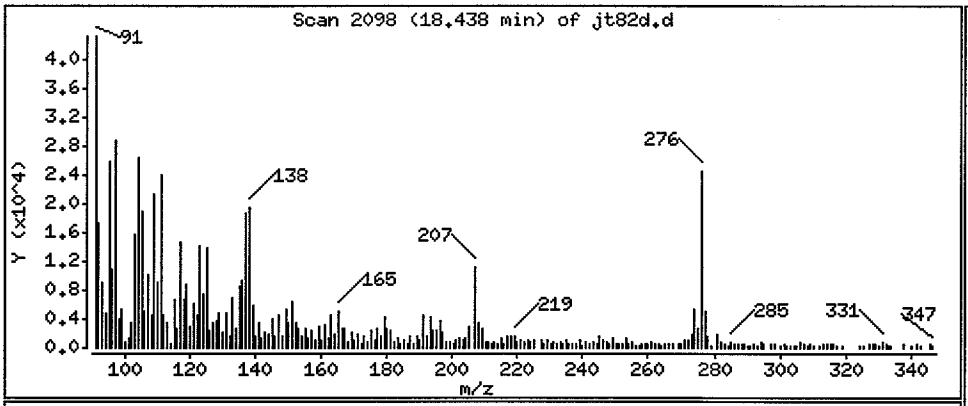
Operator: VTS

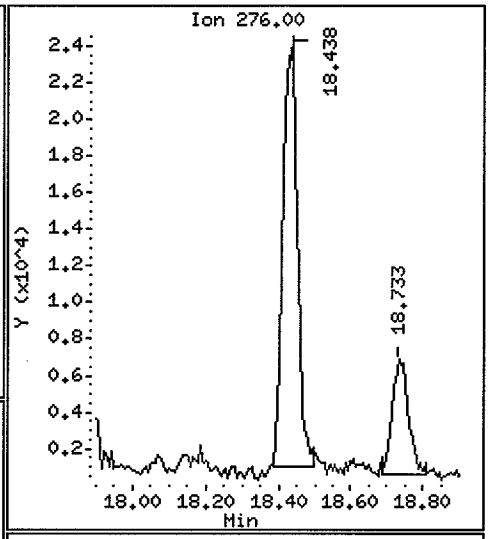
Column phase: ZB-5

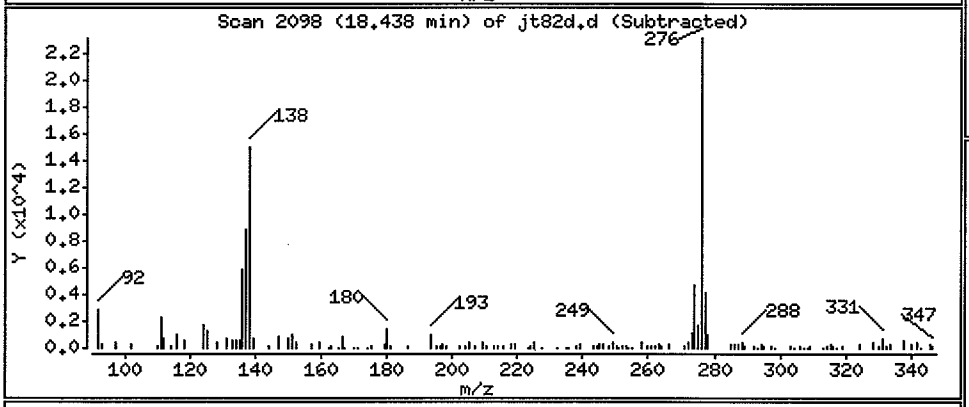
Column diameter: 0.25

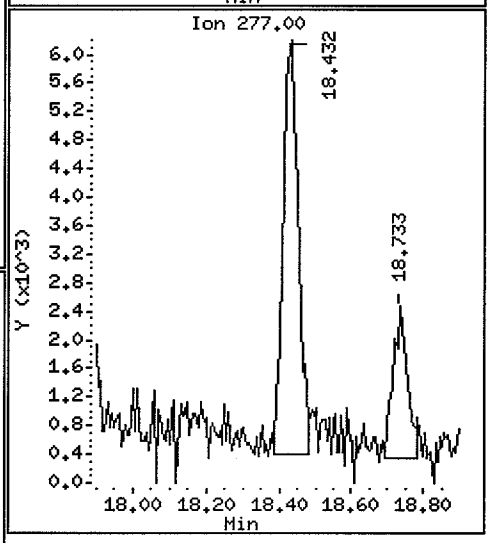
35 Benzo(g,h,i)perylene

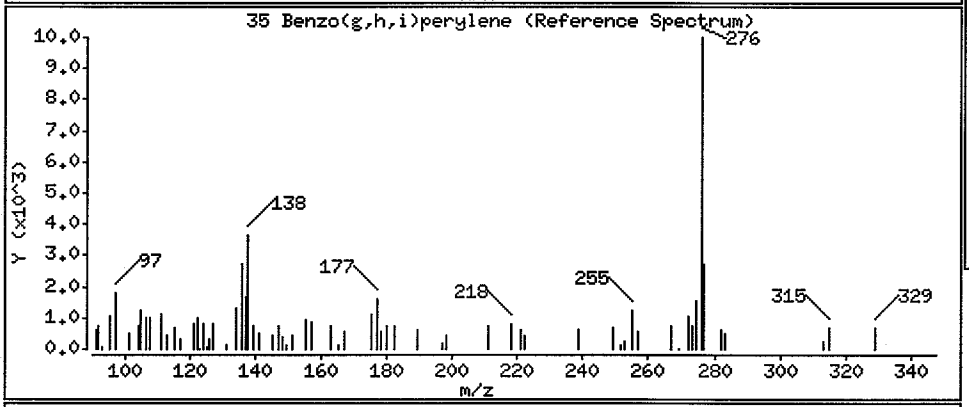
Concentration: 46.77 ug/kg

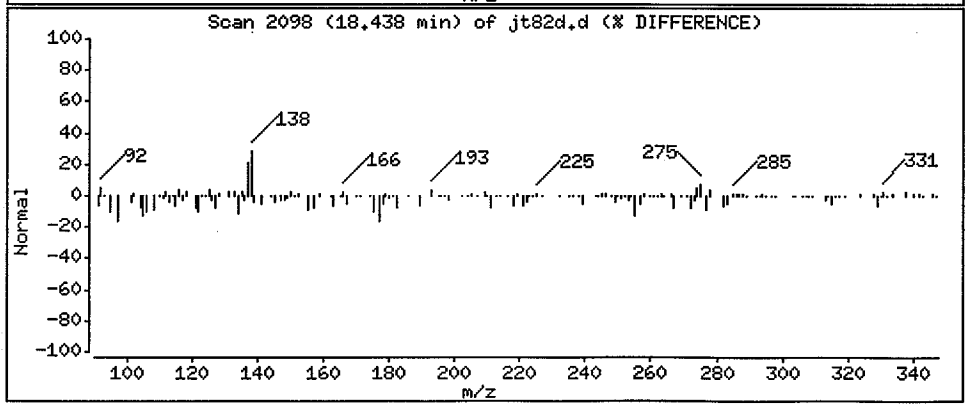












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

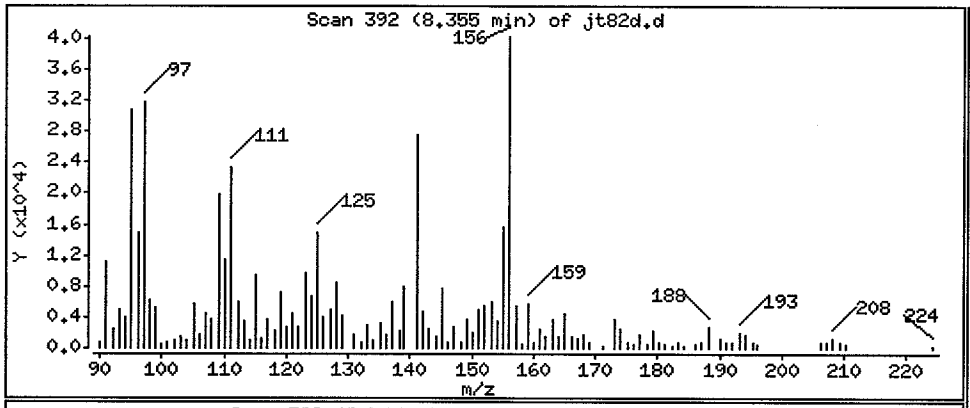
Operator: VTS

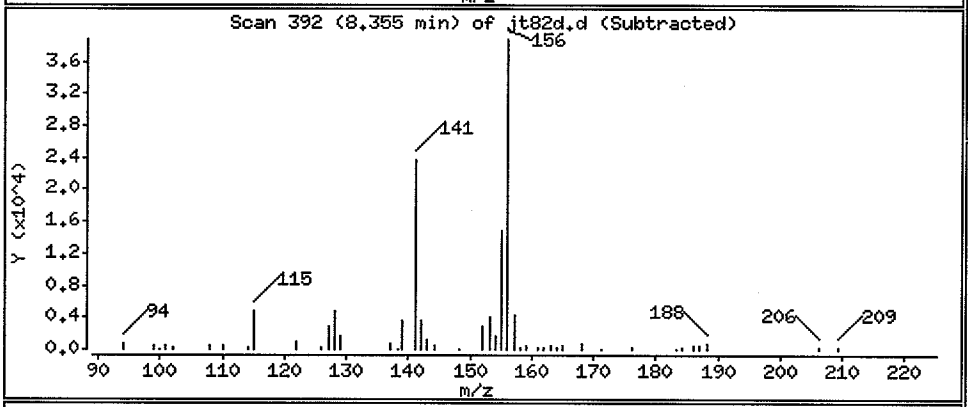
Column phase: ZB-5

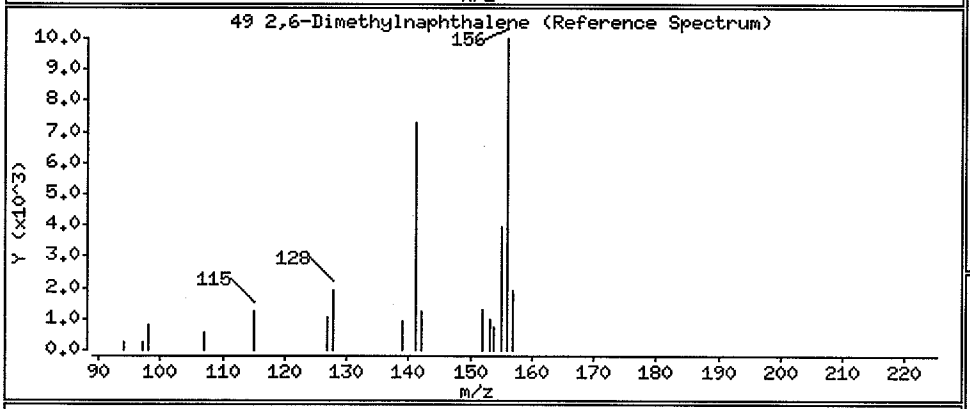
Column diameter: 0.25

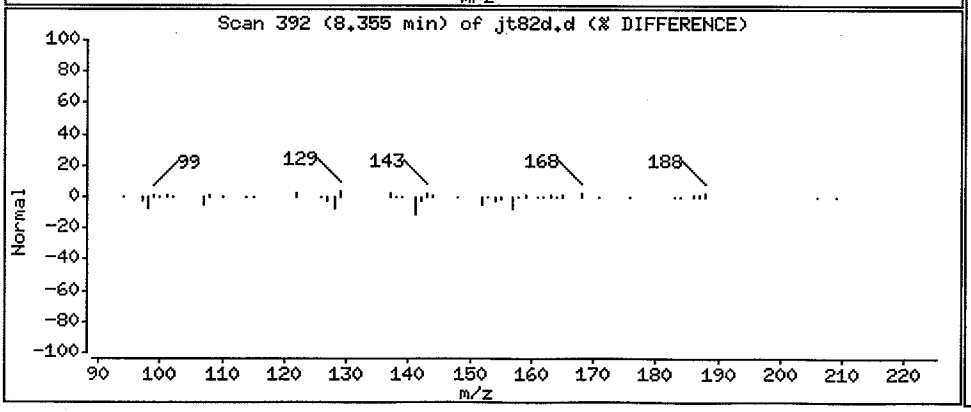
49 2,6-Dimethylnaphthalene

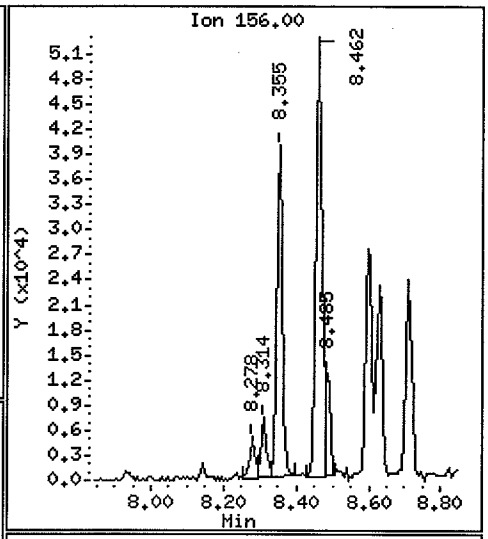
Concentration: 21.17 ug/kg

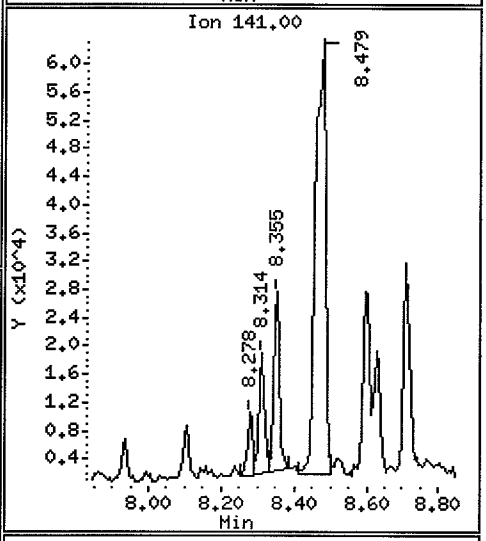


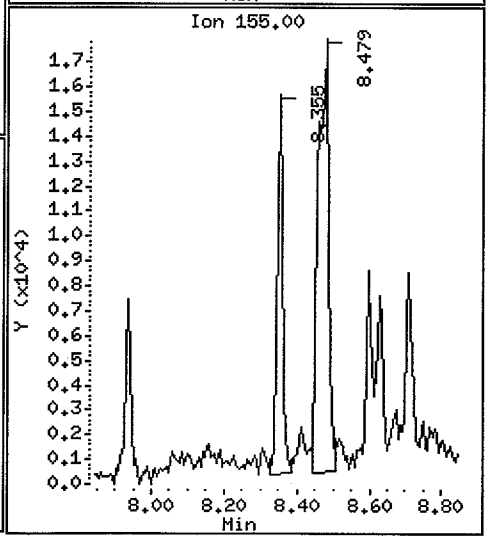












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

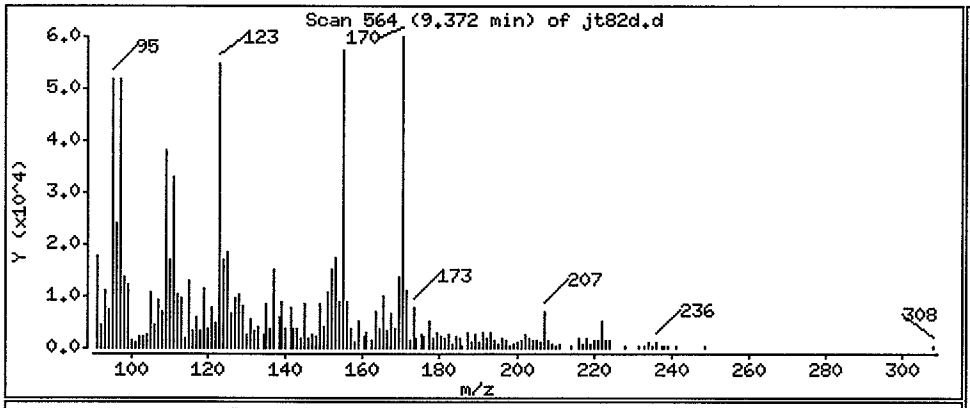
Operator: VTS

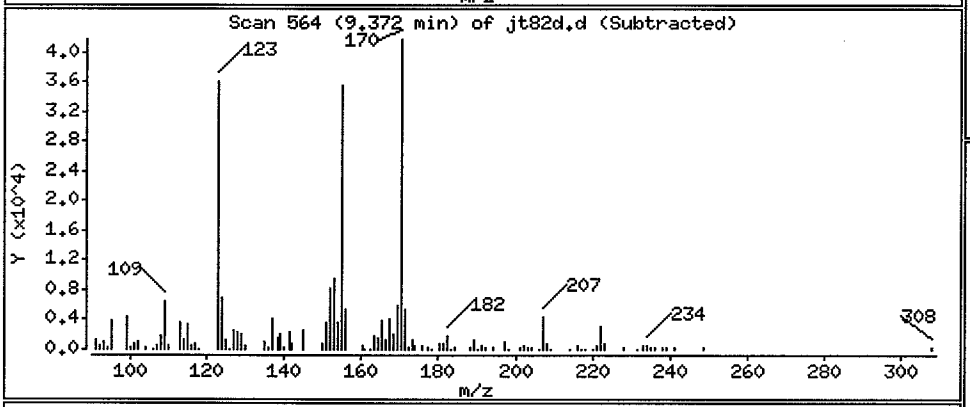
Column phase: ZB-5

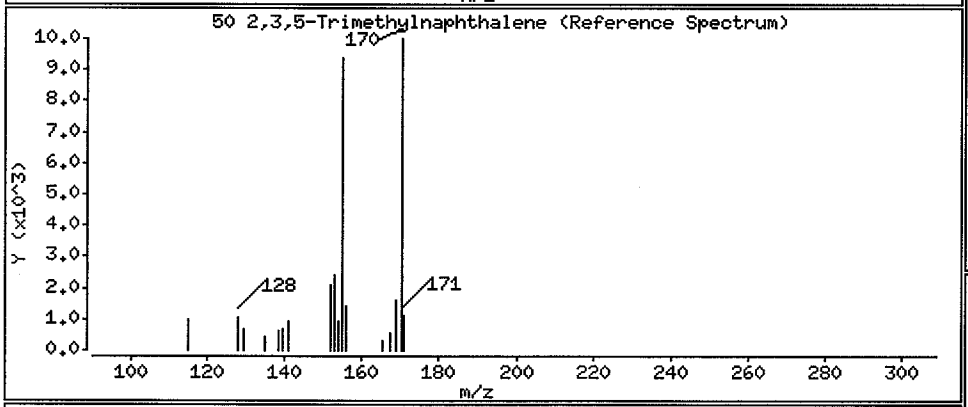
Column diameter: 0.25

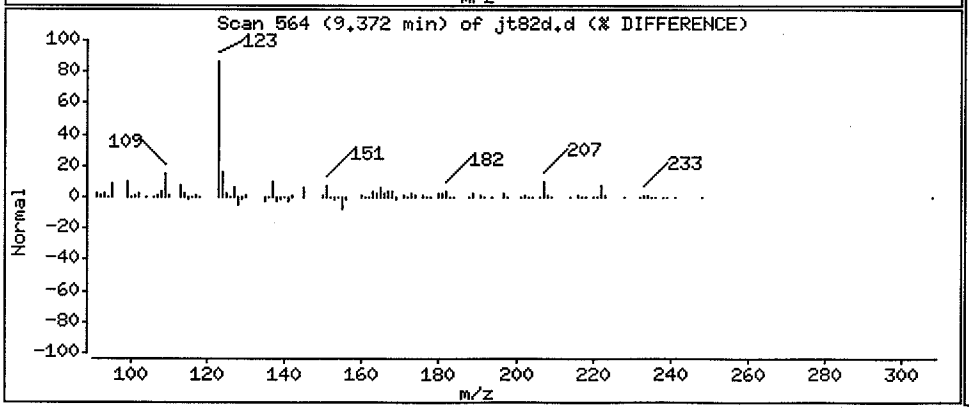
50 2,3,5-Trimethylnaphthalene

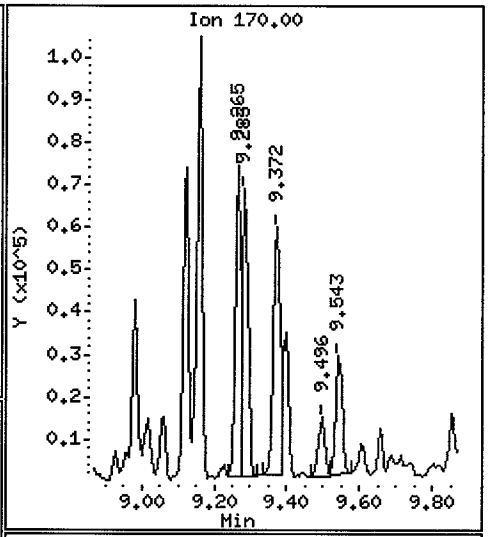
Concentration: 53.94 ug/kg

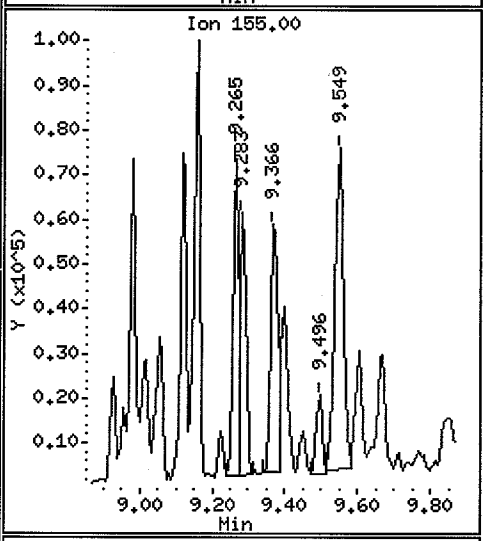


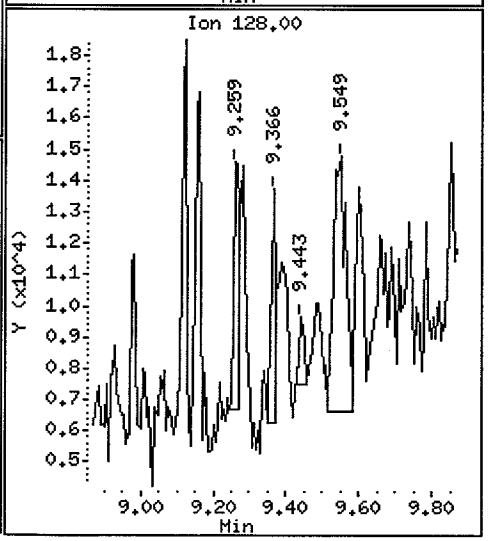












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

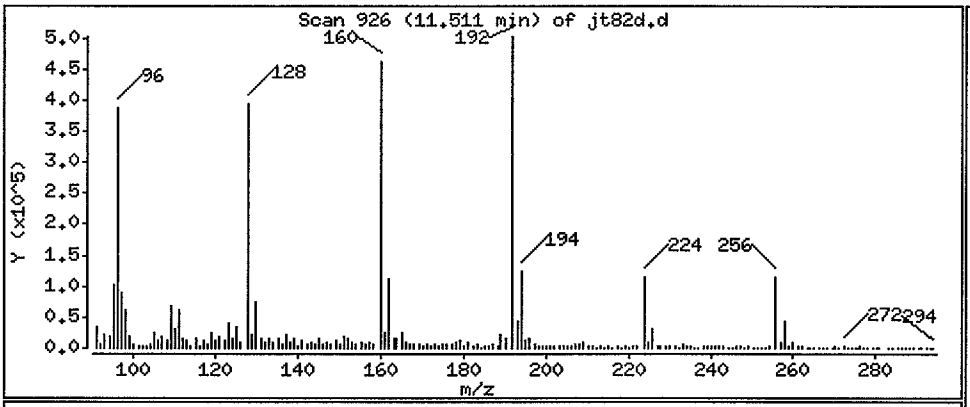
Operator: VTS

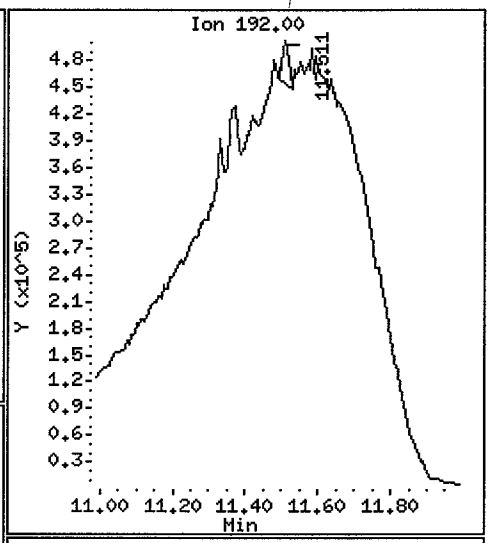
Column phase: ZB-5

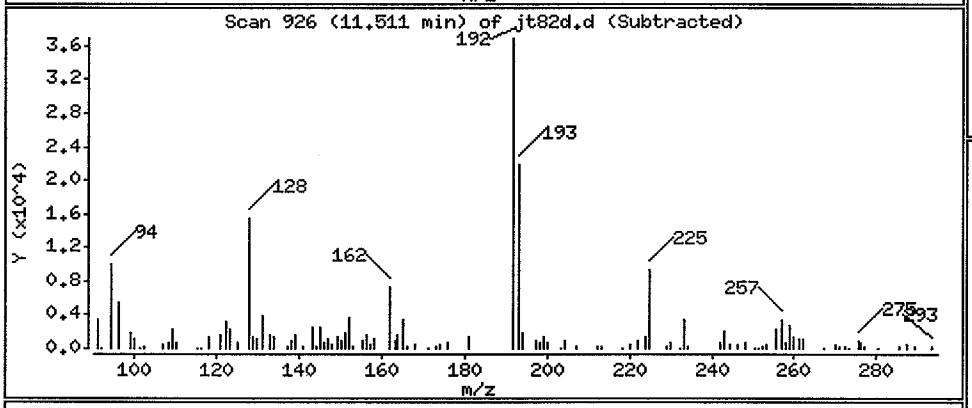
Column diameter: 0.25

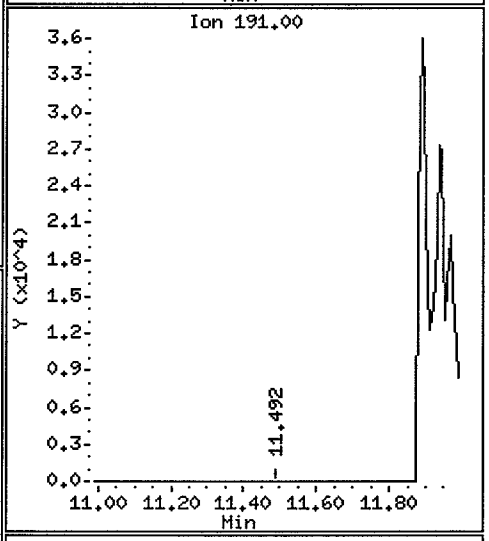
51 1-Methylphenanthrene

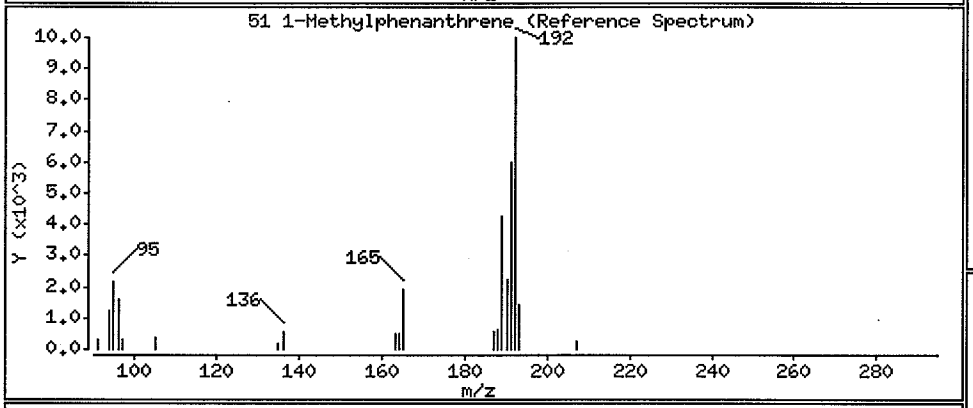
Concentration: 32.75 ug/kg

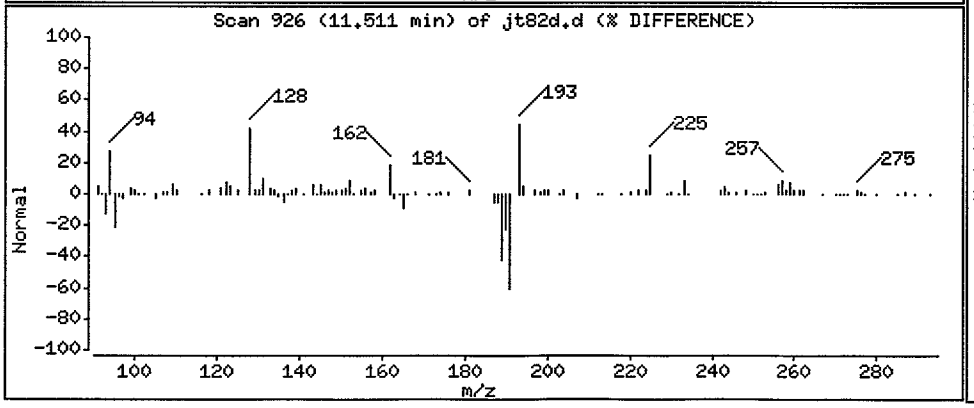


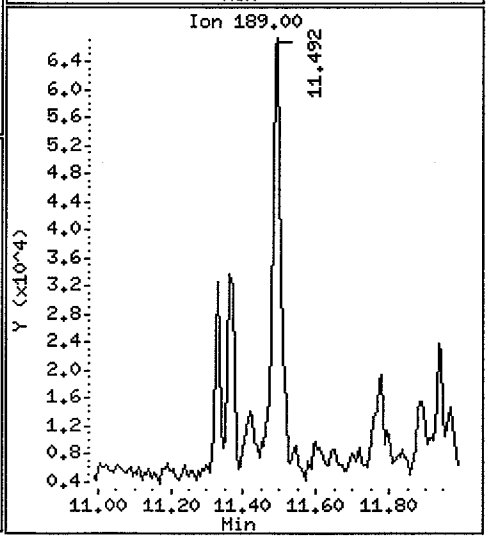












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

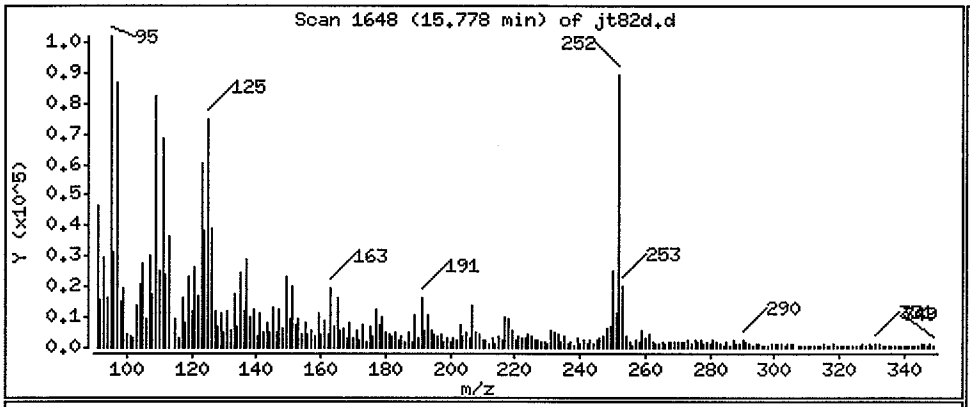
Operator: VTS

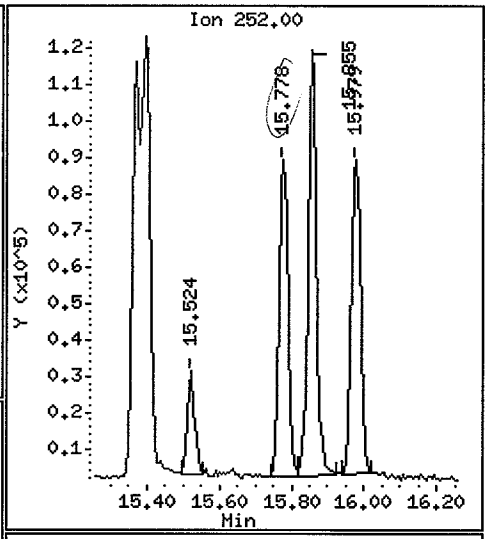
Column phase: ZB-5

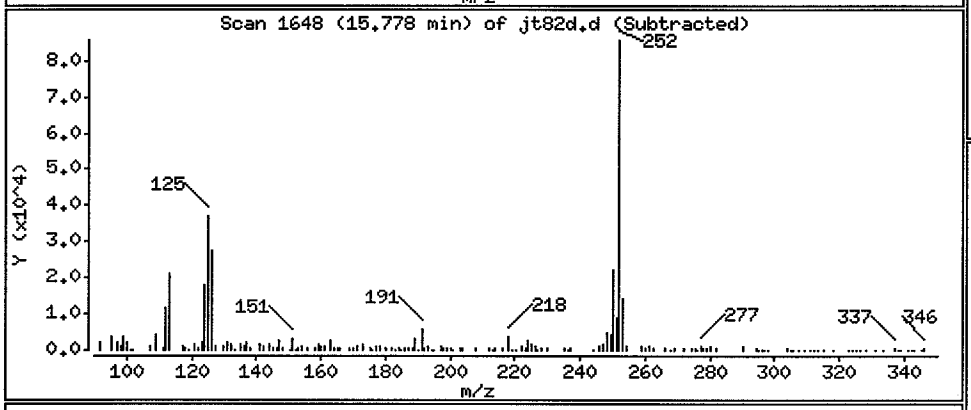
Column diameter: 0.25

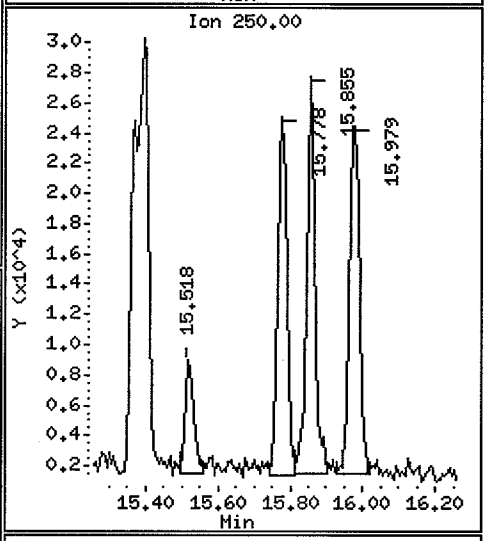
52 Benzo(e)pyrene

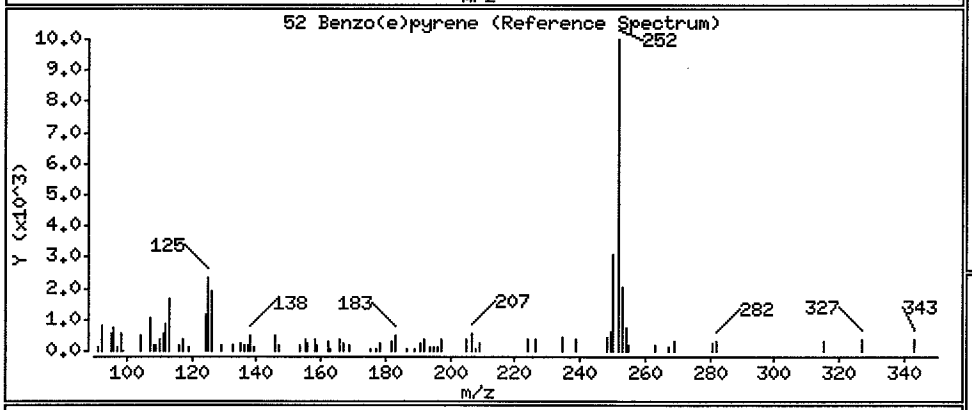
Concentration: 88.33 ug/kg

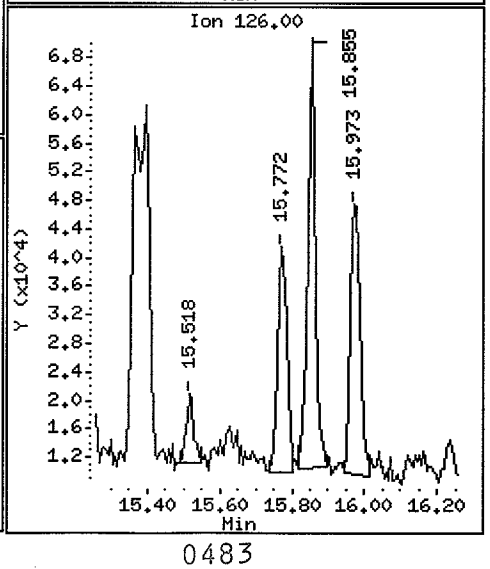


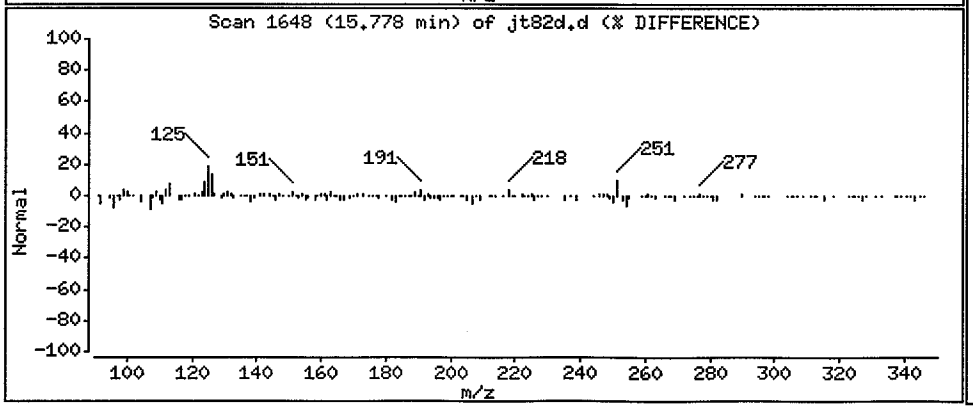












Data File: /chem3/nt1.i/20060831.b/jt82d.d

Date : 31-AUG-2006 19:49

Client ID: T4-S3-02-J

Instrument: nt1.i

Sample Info: JT82D

Volume Injected (uL): 1.0

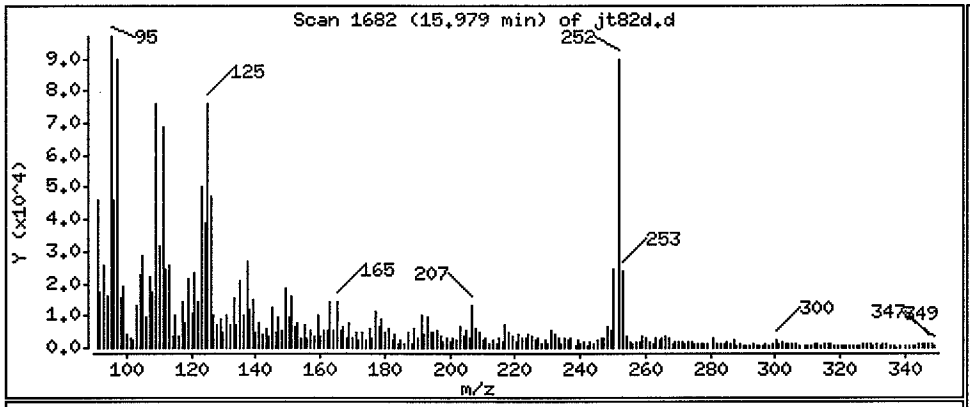
Operator: VTS

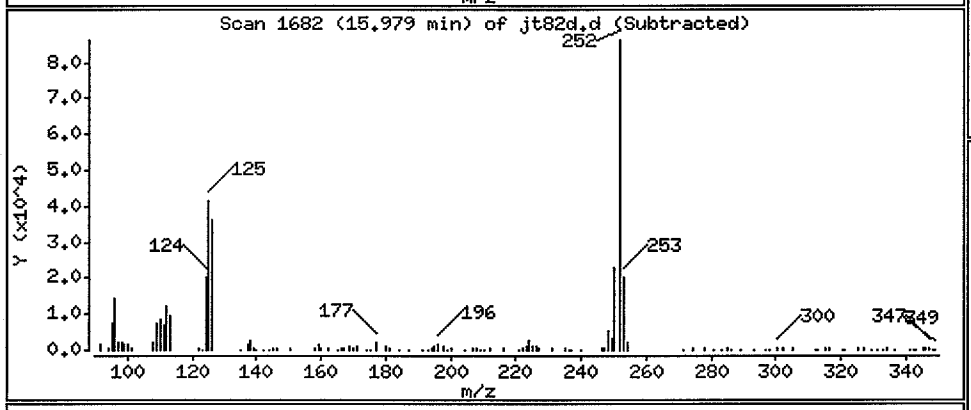
Column phase: ZB-5

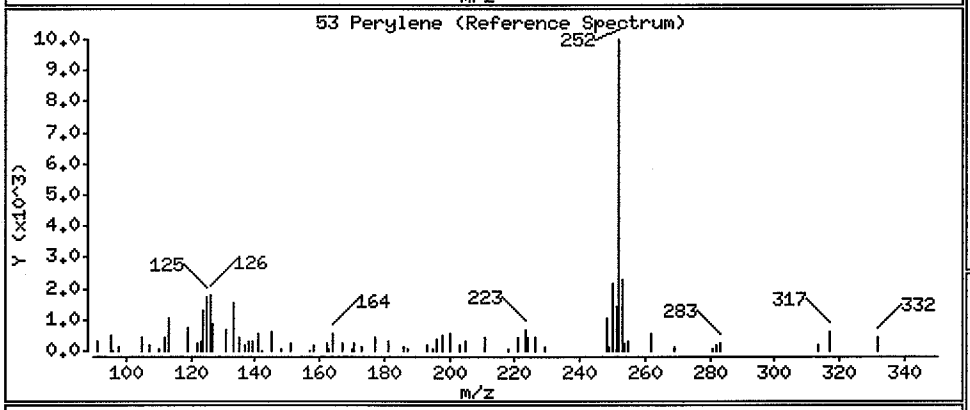
Column diameter: 0.25

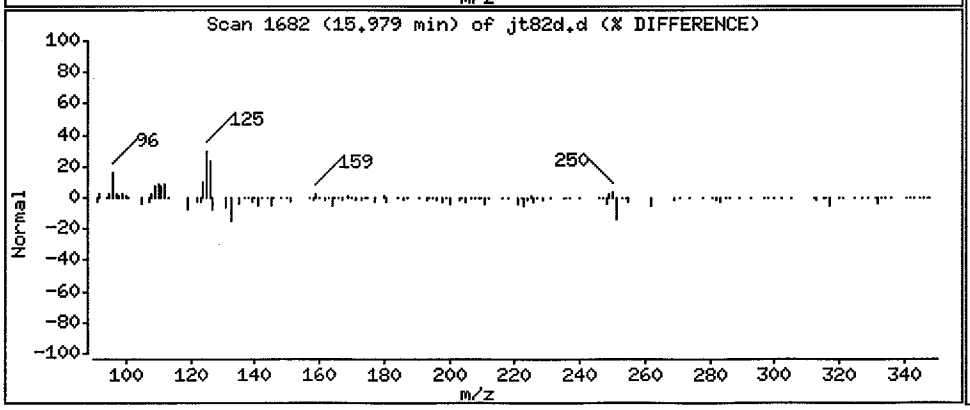
53 Perylene

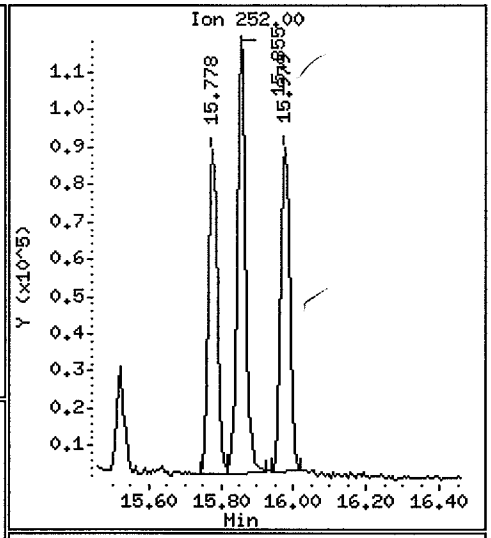
Concentration: 97.34 ug/kg

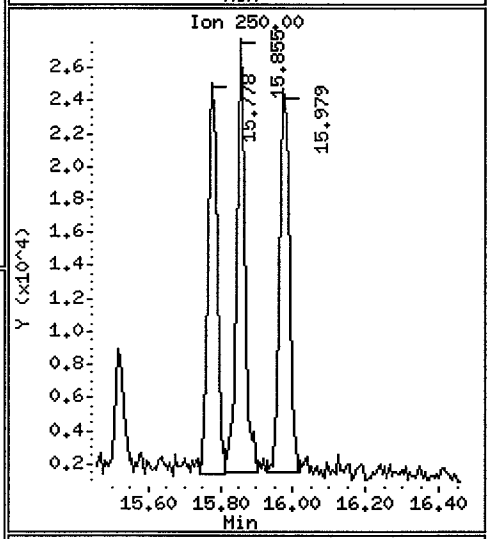


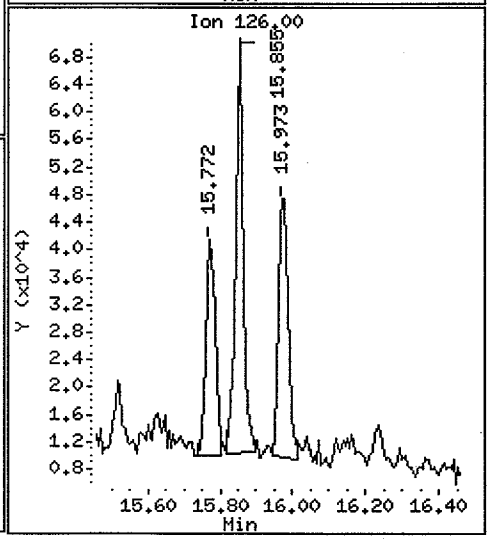












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-02-K-DUP
SAMPLE

Lab Sample ID: JT82E
LIMS ID: 06-15219
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 20:13
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.1%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**4.9**
91-57-6	2-Methylnaphthalene	4.9	< 4.9 U
90-12-0	1-Methylnaphthalene	4.9	< 4.9 U
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	**Acenaphthene**	**4.9**	**9.3**
86-73-7	Fluorene	4.9	< 4.9 U
85-01-8	**Phenanthrene**	**4.9**	**30**
120-12-7	**Anthracene**	**4.9**	**4.9**
206-44-0	**Fluoranthene**	**4.9**	**39**
129-00-0	**Pyrene**	**4.9**	**65**
56-55-3	**Benzo(a)anthracene**	**4.9**	**19**
218-01-9	**Chrysene**	**4.9**	**30**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**26**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**29**
50-32-8	**Benzo(a)pyrene**	**4.9**	**29**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**9.3**
53-70-3	Dibenz(a,h)anthracene	4.9	< 4.9 U
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**13**
198-55-0	**Perylene**	**4.9**	**46**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	< 4.9 U
832-69-9	1-Methylphenanthrene	4.9	< 4.9 Y
192-97-2	**Benzo(e)pyrene**	**4.9**	**19**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**4.9**	**8.8**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracen	45.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060831.b/jt82e.d
Lab Smp Id: JT82E Client Smp ID: T4-S3-02-K-DUP
Inj Date : 31-AUG-2006 20:13
Operator : VTS Inst ID: nt1.i
Smp Info : JT82E
Misc Info : 06-15219
Comment : 1ul Injection
Method : /chem3/nt1.i/20060831.b/simpna.m
Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.10000	Weight of sample extracted (g)
M	22.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.830	6.823	(1.000)	410316	2.00000	
	2 Naphthalene	128	6.854	6.847	(1.003)	21397	0.10455	5.122
$	3 2-Methylnaphthalene-d10	152	7.581	7.580	(1.110)	221444	2.09533	102.7
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.710	8.703	(0.980)	10884	0.06511	3.190 J
*	8 Acenaphthene-d10	164	8.887	8.886	(1.000)	201612	2.00000	
	9 Acenaphthene	153	8.922	8.921	(1.004)	18585	0.18774	9.198
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	10.696	10.694	(1.000)	262822	2.00000	
	16 Phenanthrene	178	10.725	10.724	(1.003)	82106	0.60863	29.82
	17 Anthracene	178	10.778	10.777	(1.008)	13692	0.10156	4.976
	19 Fluoranthene	202	12.220	12.213	(1.143)	109138	0.79317	38.86

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.504	12.503	(0.893)	161956	1.32972	65.15
	22 Benzo(a)anthracene	228	13.982	13.980	(0.998)	43174	0.37799	18.52
*	23 Chrysene-d12	240	14.005	14.004	(1.000)	189677	2.00000	
	24 Chrysene	228	14.035	14.034	(1.002)	65232	0.61918	30.34
	28 Benzo(b)fluoranthene	252	15.359	15.352	(0.964)	35953	0.52091	25.52
	29 Benzo(k)fluoranthene	252	15.382	15.387	(0.966)	43308	0.58857	28.84
	30 Benzo(a)pyrene	252	15.843	15.836	(0.995)	39520	0.58763	28.79
*	31 Perylene-d12	264	15.926	15.925	(1.000)	122294	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.847	17.834	(1.121)	14908	0.19276	9.444
$	32 Dibenz(a,h)anthrancene-d14	292	17.770	17.763	(1.116)	63729	1.36168	66.72
	34 Dibenz(a,h)anthracene	278	17.841	17.828	(1.120)	5126	0.08114	3.976 (M) J
	35 Benzo(g,h,i)perylene	276	18.414	18.401	(1.156)	16415	0.25533	12.51
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.355	8.348	(0.940)	5481	0.05587	2.737 J
	50 2,3,5-Trimethylnaphthalene	170	9.372	9.371	(1.055)	14365	0.17876	8.758
	51 1-Methylphenanthrene	192	11.499	11.492	(0.821)	7872	0.10140	4.968 (M) J
	52 Benzo(e)pyrene	252	15.766	15.759	(0.990)	28756	0.38628	18.93
	53 Perylene	252	15.967	15.960	(1.003)	65181	0.93252	45.69

QC Flag Legend

M - Compound response manually integrated.

VTS
9-1-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82e.d
Lab Smp Id: JT82E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15219

Calibration Date: 31-AUG-2006
Calibration Time: 11:36
Client Smp ID: T4-S3-02-K-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	330618	165309	661236	410316	24.11
8 Acenaphthene-d10	168464	84232	336928	201612	19.68
15 Phenanthrene-d10	226331	113166	452662	262822	16.12
23 Chrysene-d12	170894	85447	341788	189677	10.99
31 Perylene-d12	178548	89274	357096	122294	-31.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.10
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.01
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.01
23 Chrysene-d12	14.00	13.50	14.50	14.01	0.01
31 Perylene-d12	15.92	15.42	16.42	15.93	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

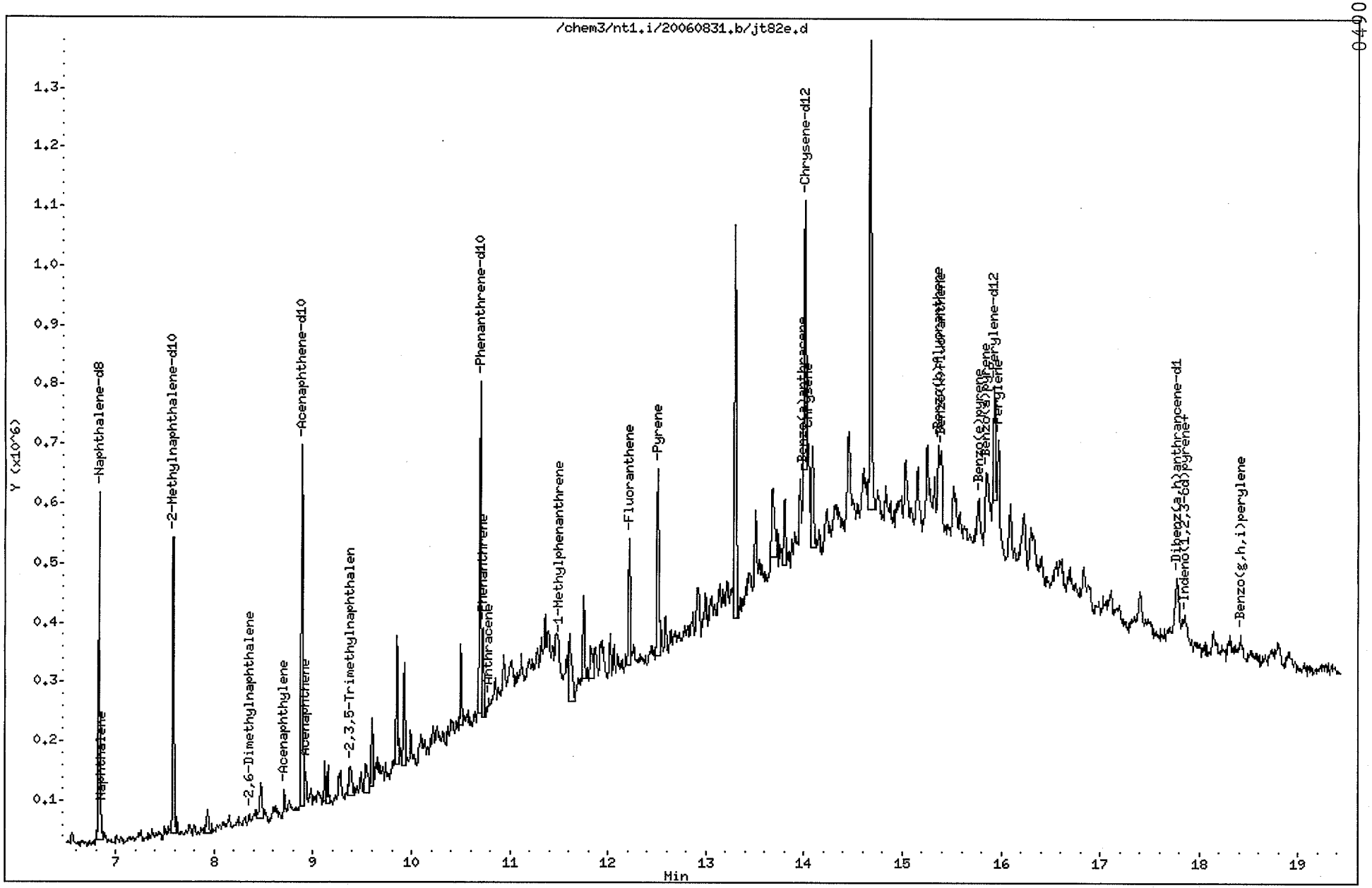
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82E
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15219

Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-K-DUP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.0	102.7	69.84	32-97
$ 32 Dibenz(a,h)anthran	147.0	66.72	45.39	21-105

Data File: /chem3/nt1.i/20060831.b/jt82e.d
Date : 31-AUG-2006 20:13
Client ID: T4-S3-02-K-DUP
Sample Info: JT82E
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

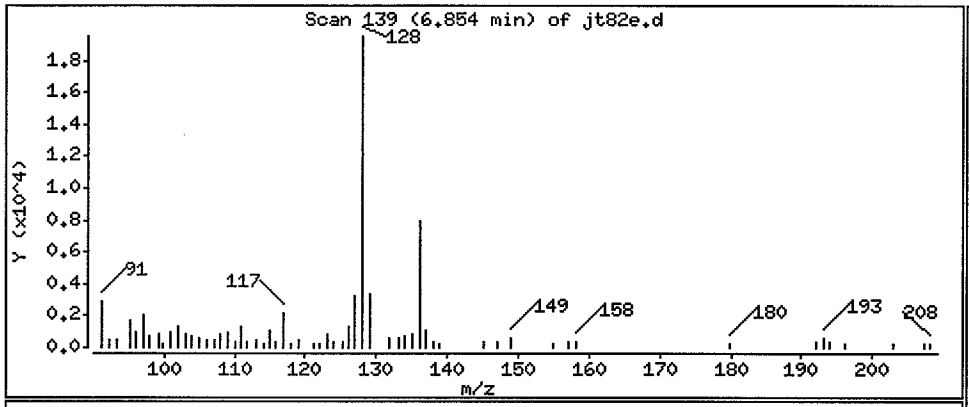
Operator: VTS

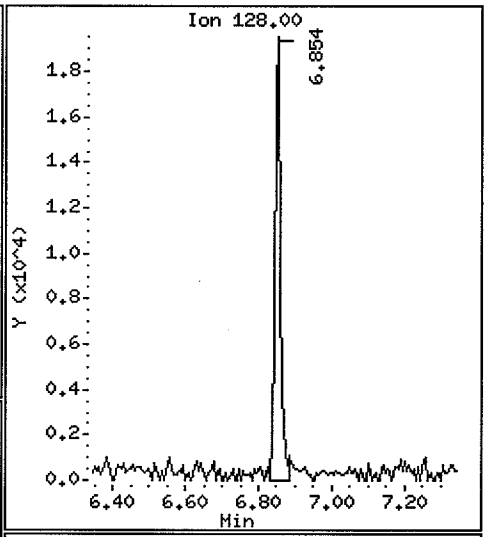
Column phase: ZB-5

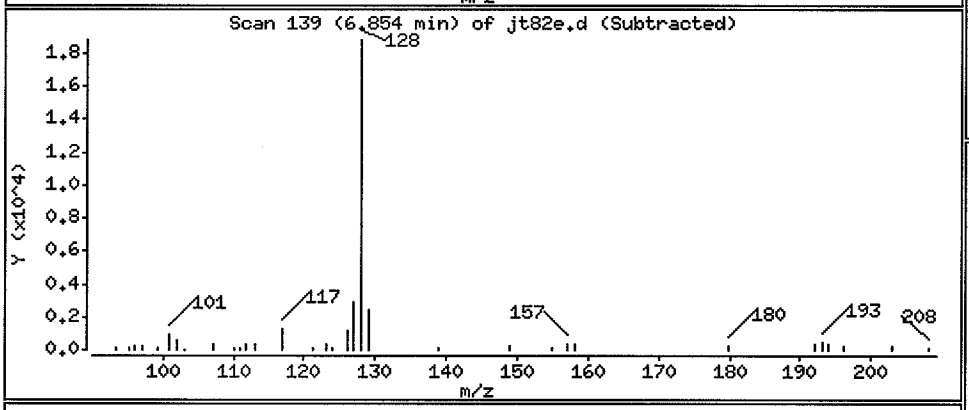
Column diameter: 0.25

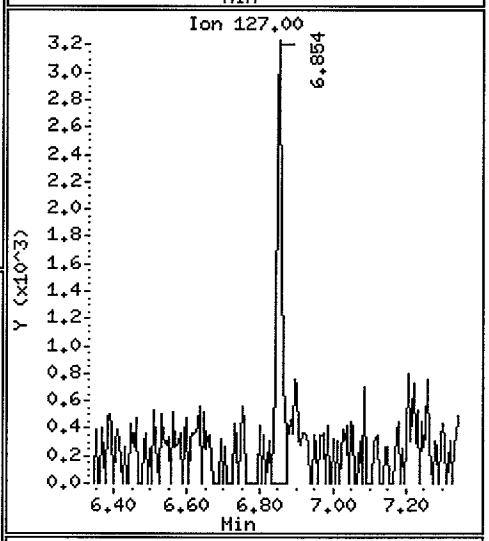
2 Naphthalene

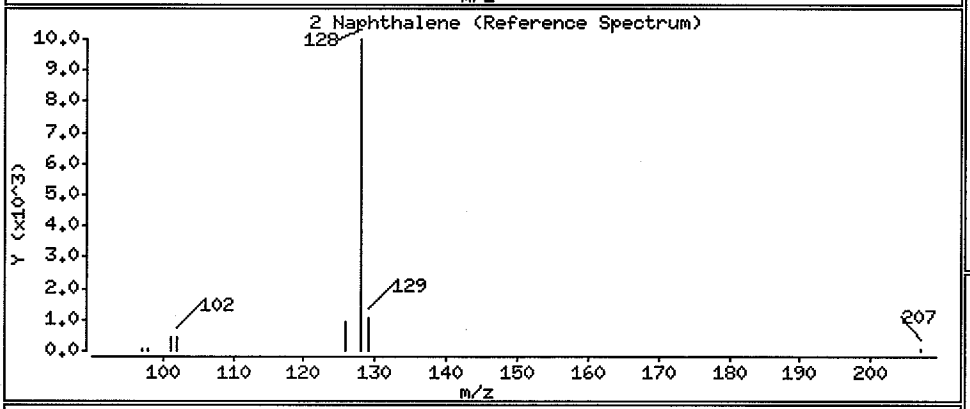
Concentration: 5.122 ug/kg

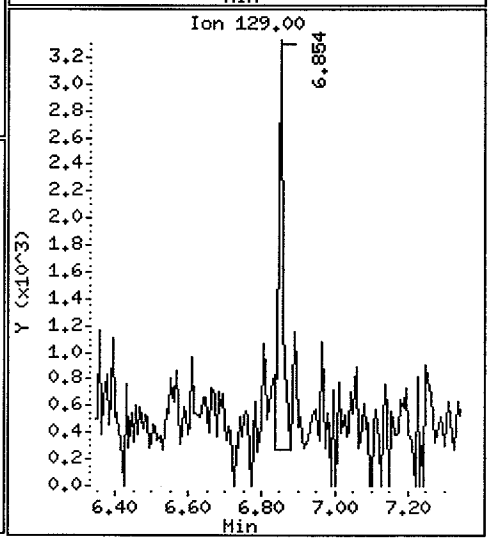


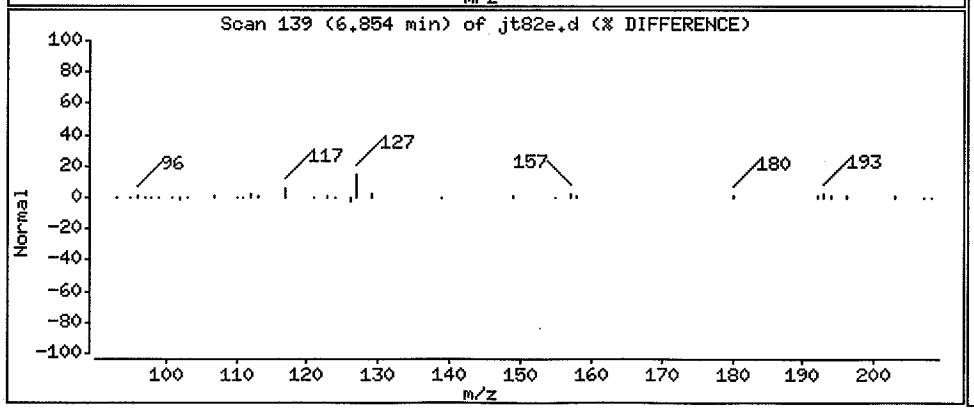












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

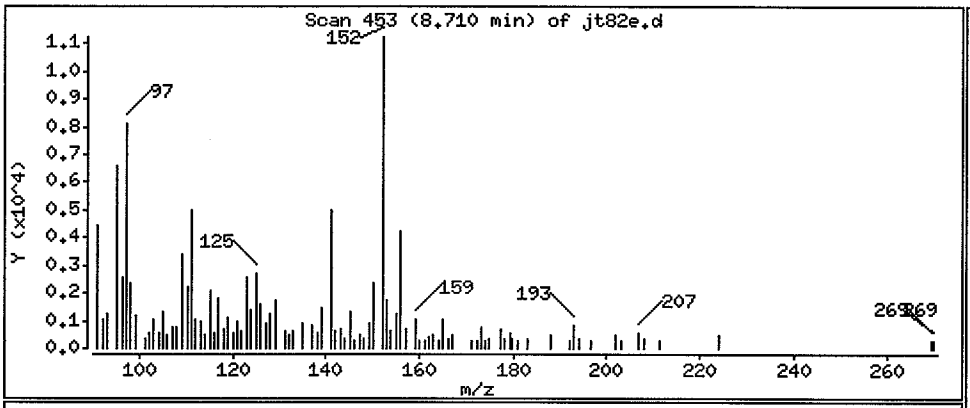
Operator: VTS

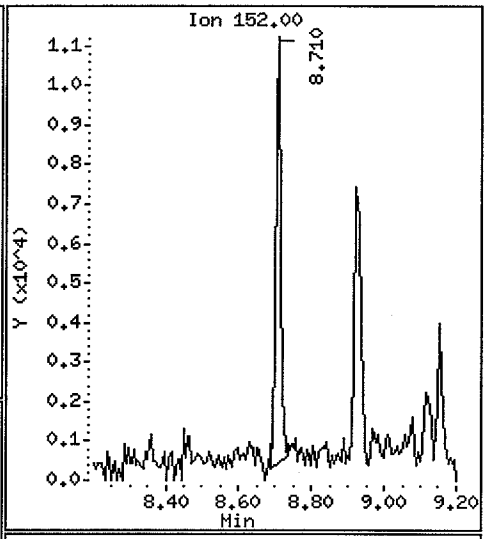
Column phase: ZB-5

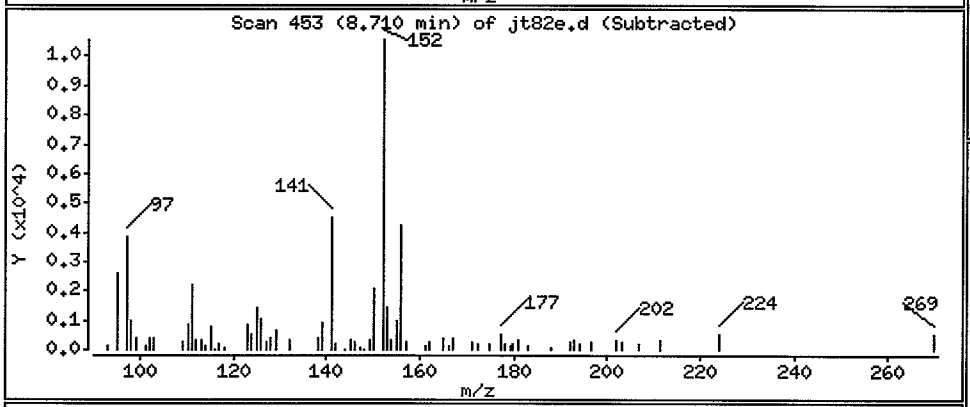
Column diameter: 0.25

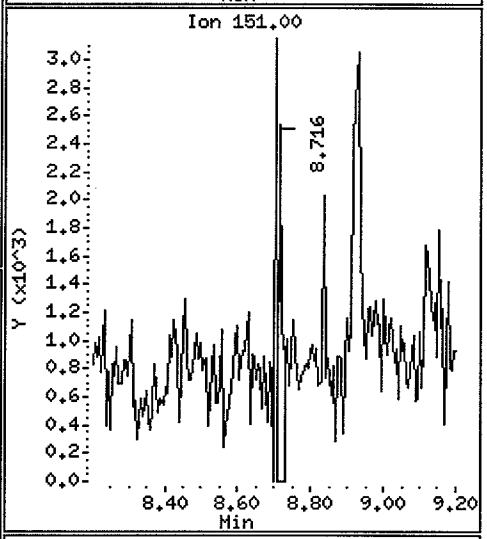
7 Acenaphthylene

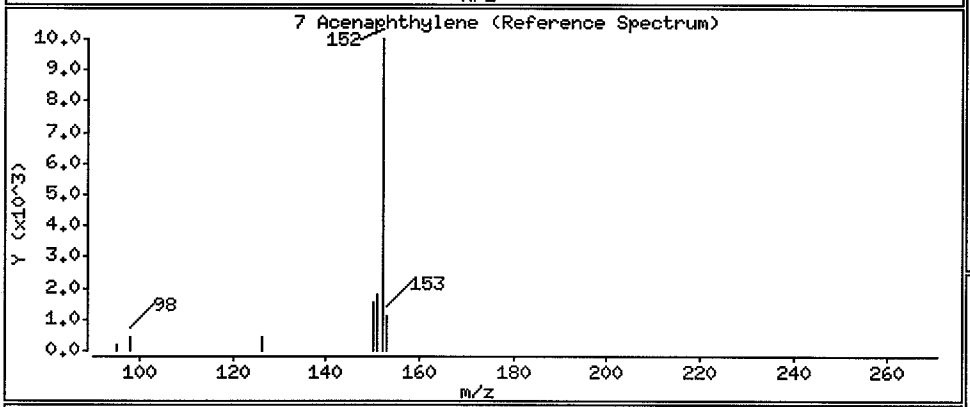
Concentration: 3.190 ug/kg

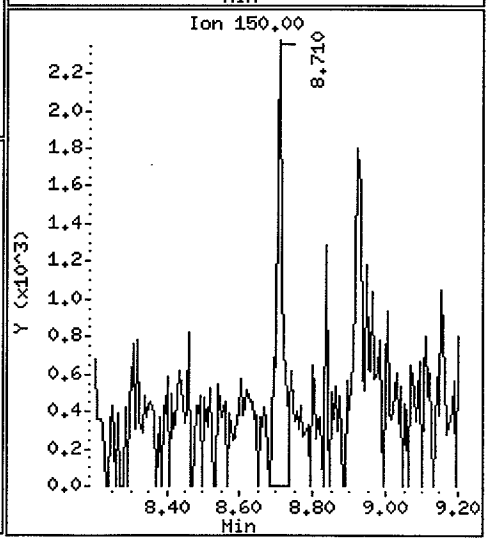


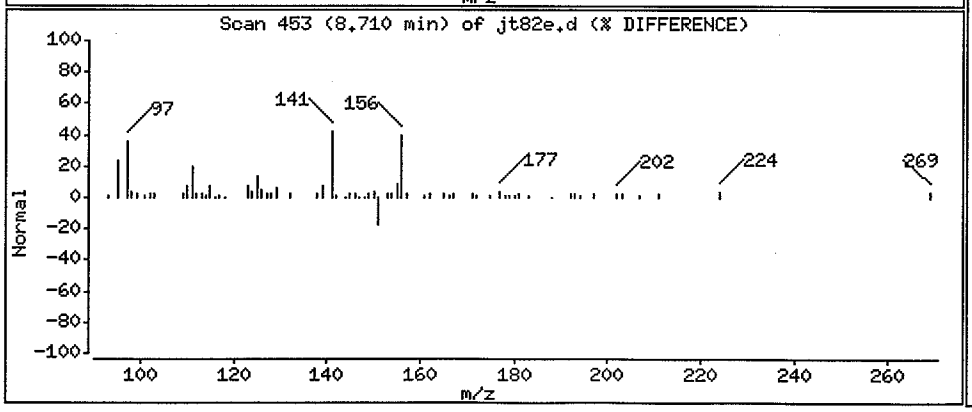












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

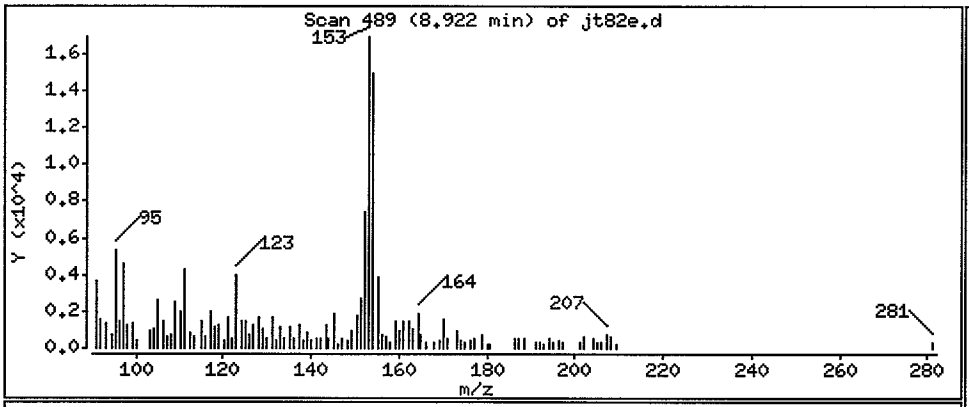
Operator: VTS

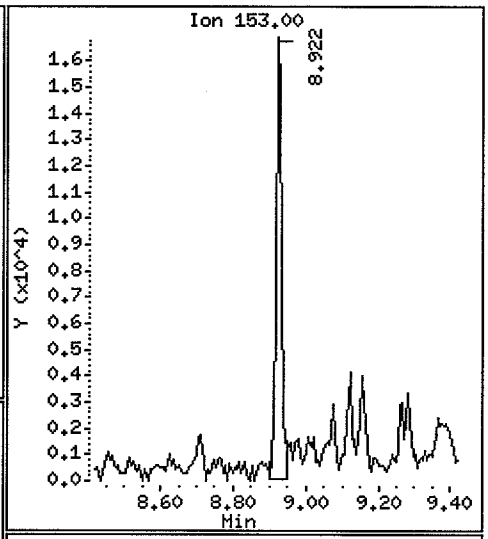
Column phase: ZB-5

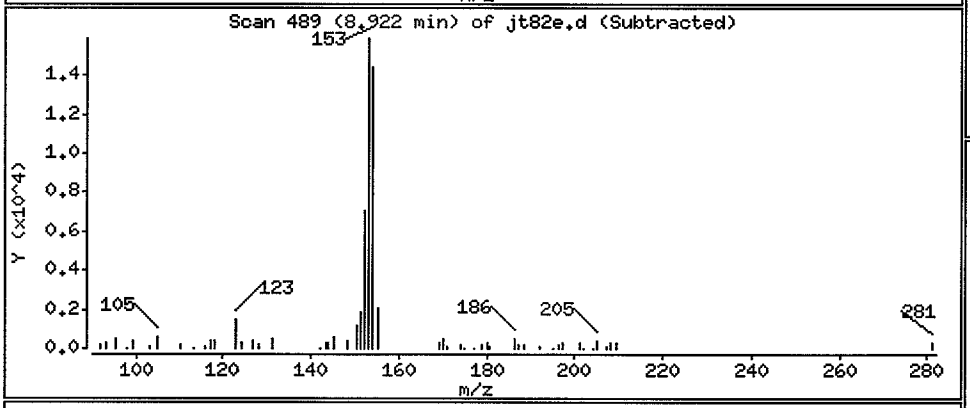
Column diameter: 0.25

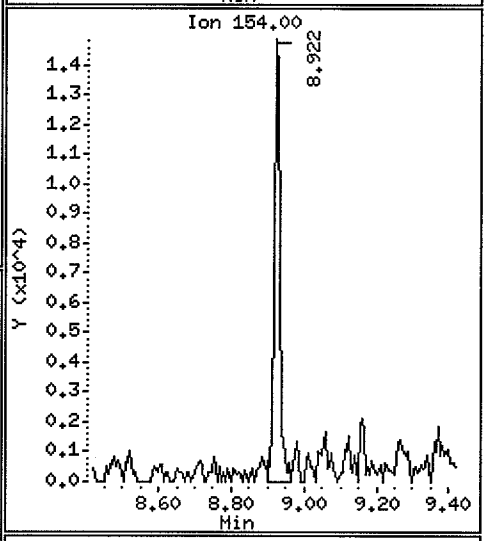
9 Acenaphthene

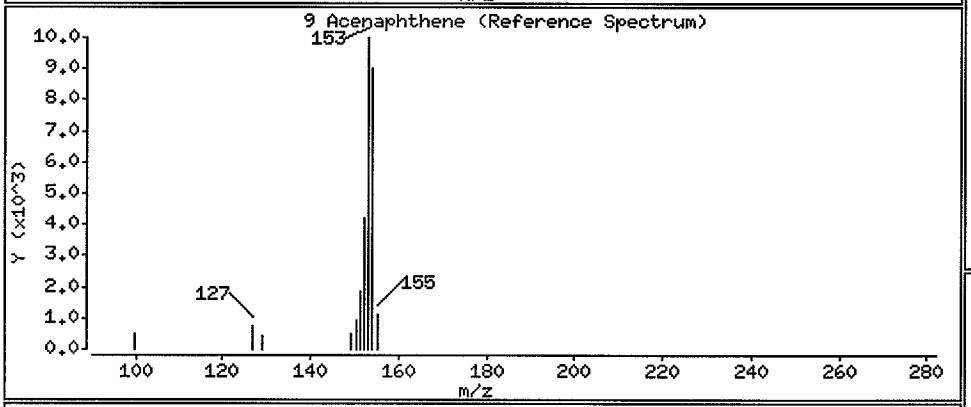
Concentration: 9.198 ug/kg

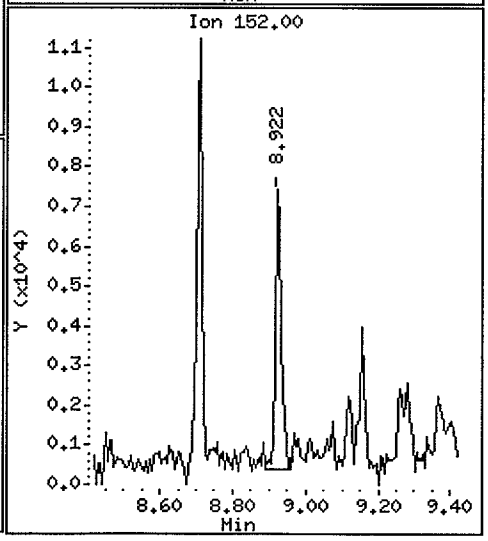


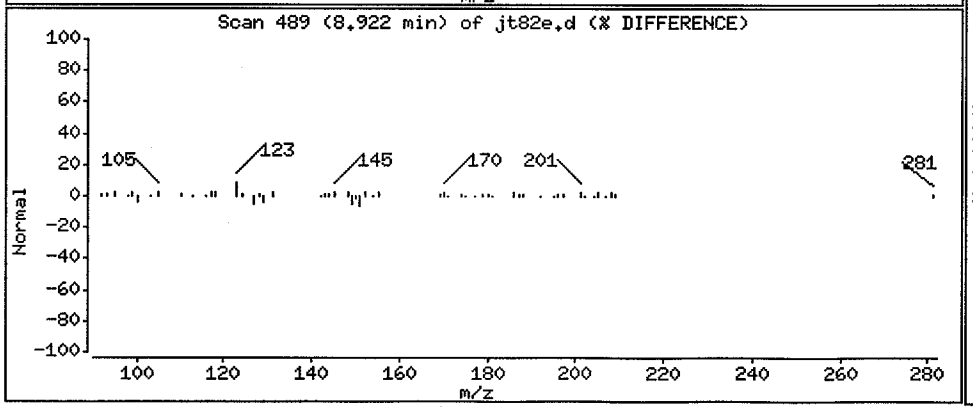












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

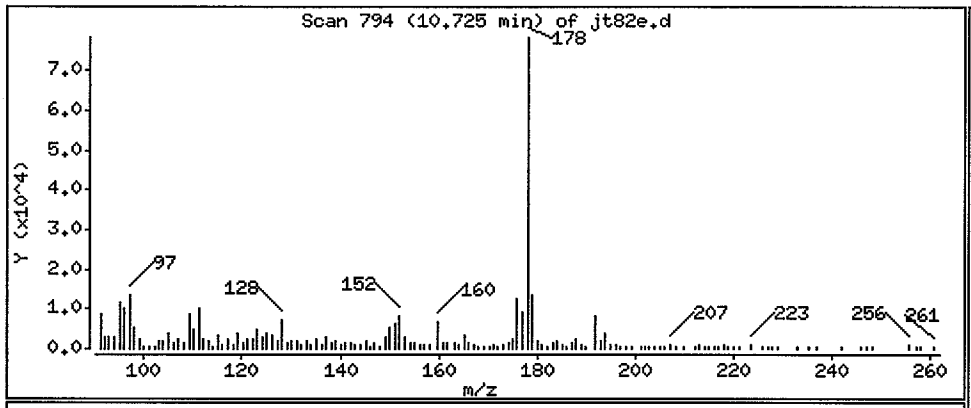
Operator: VTS

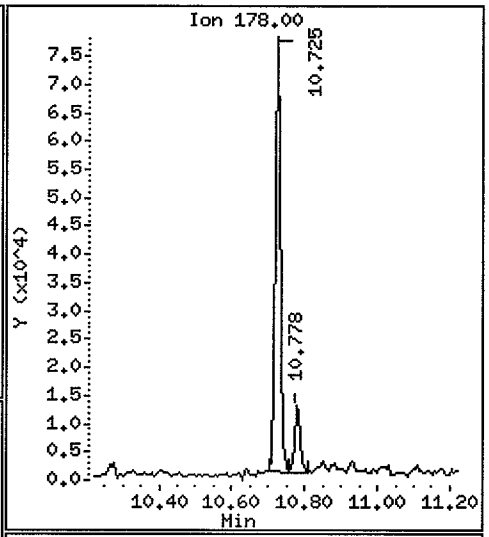
Column phase: ZB-5

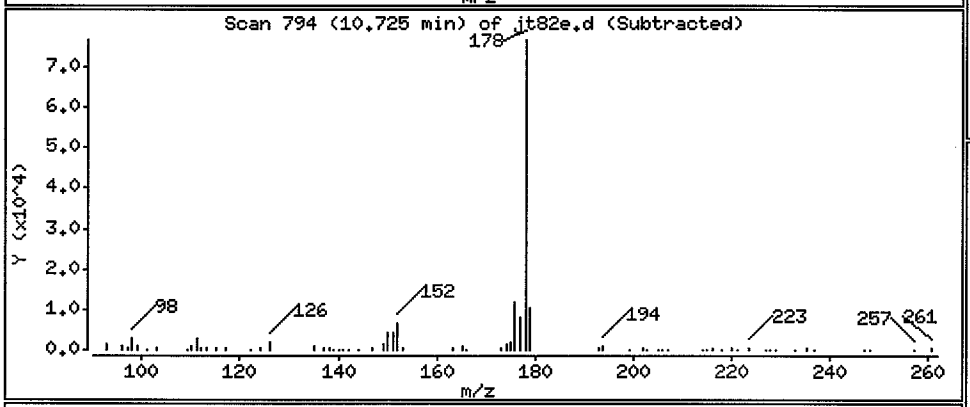
Column diameter: 0.25

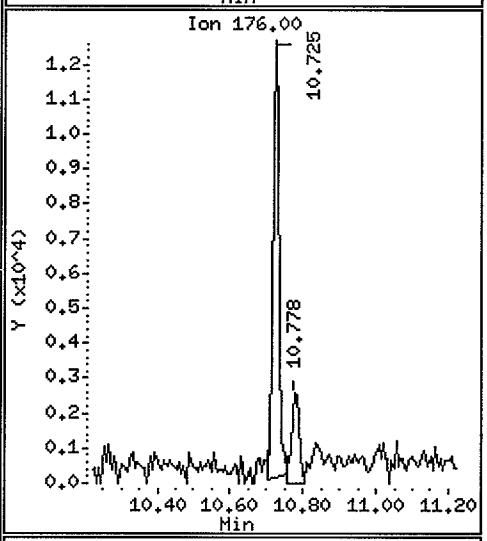
16 Phenanthrene

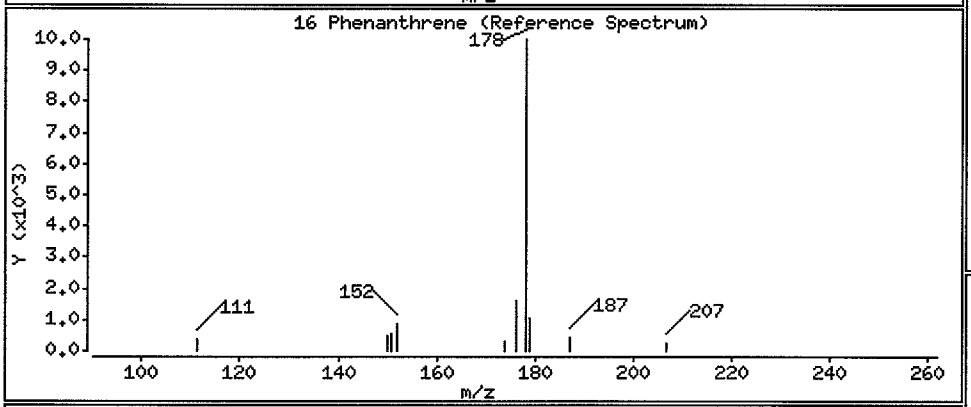
Concentration: 29.82 ug/kg

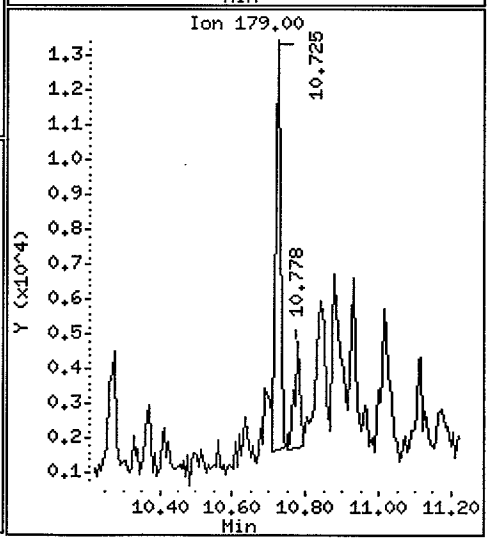


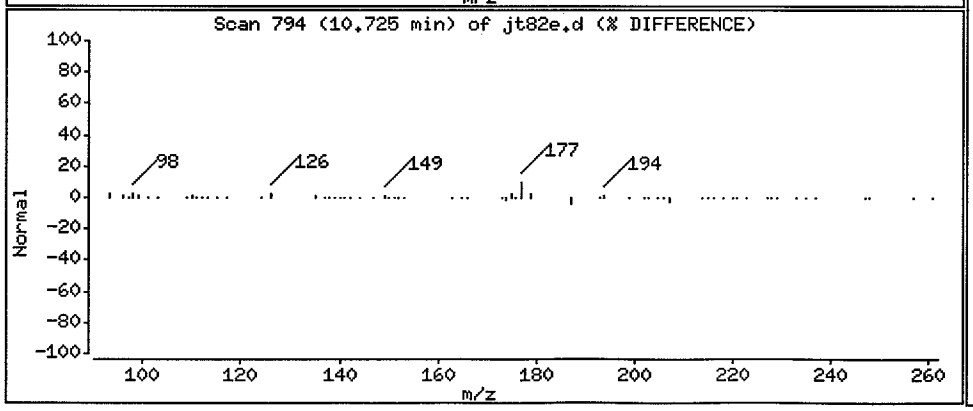












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

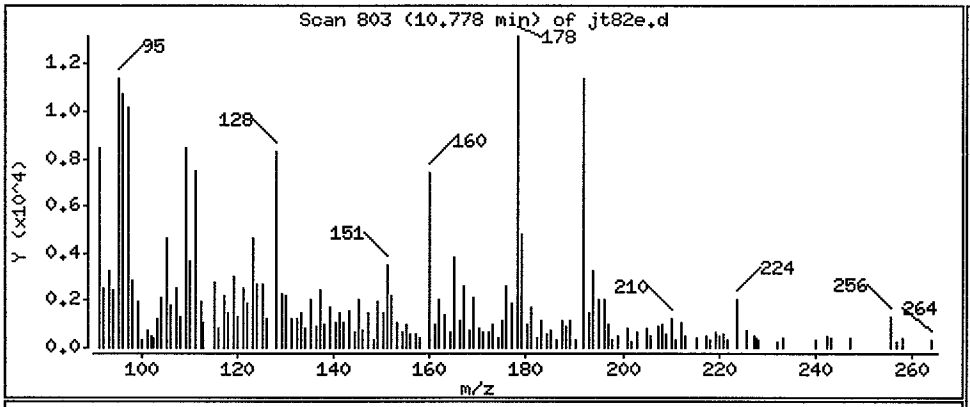
Operator: VTS

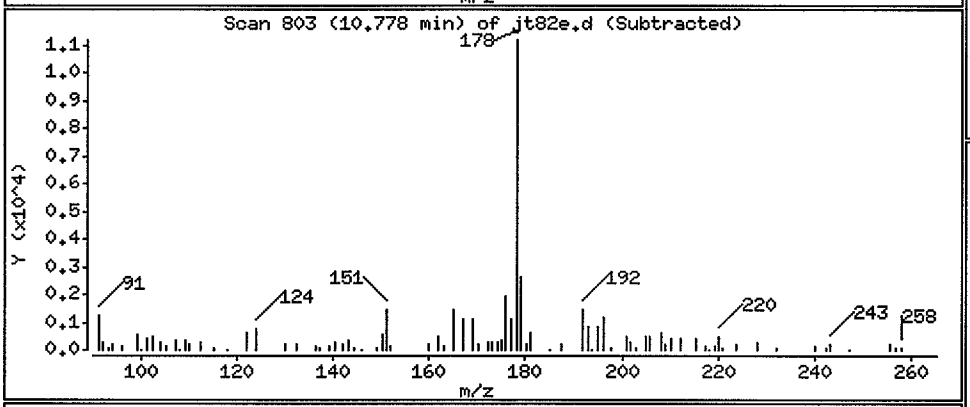
Column phase: ZB-5

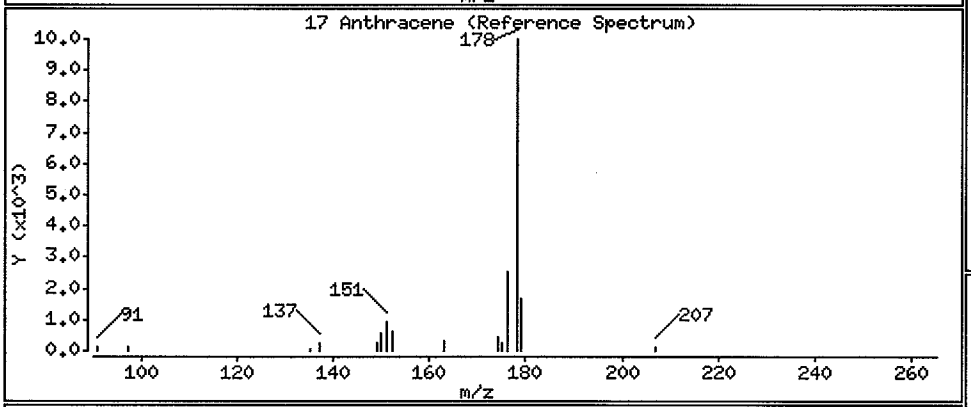
Column diameter: 0.25

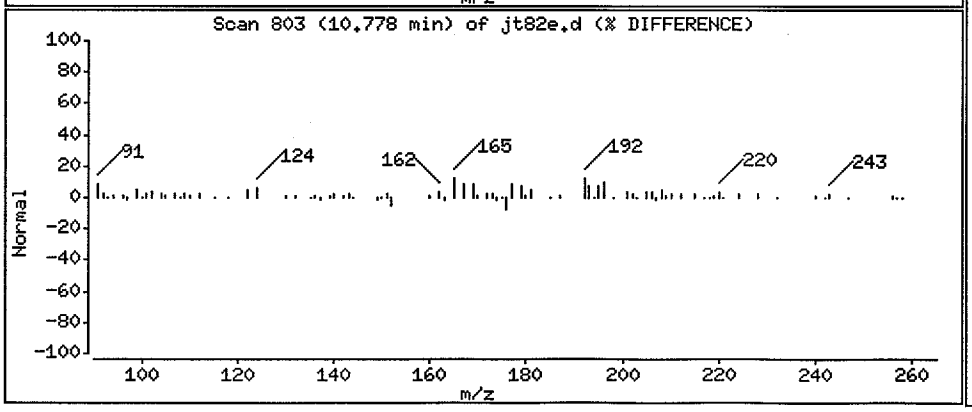
17 Anthracene

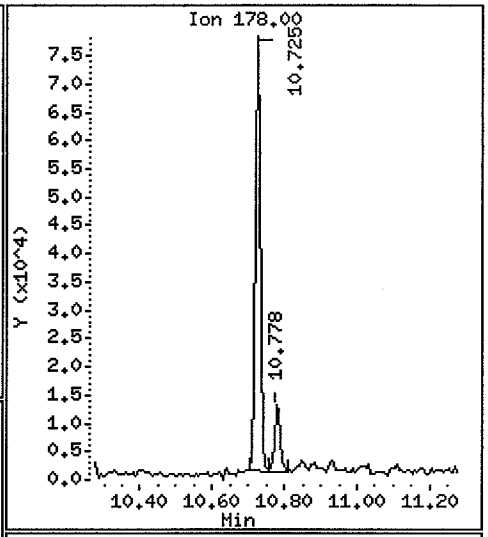
Concentration: 4.976 ug/kg

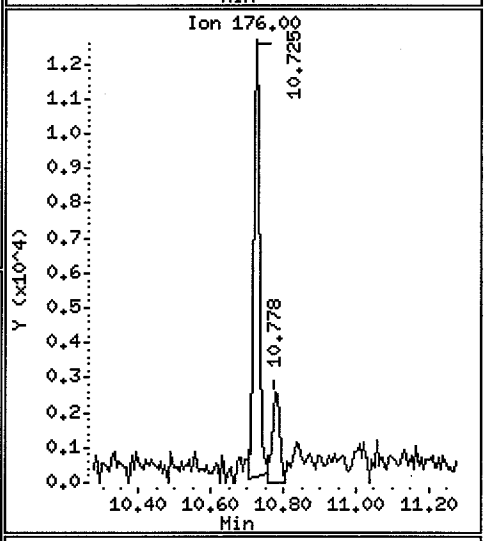


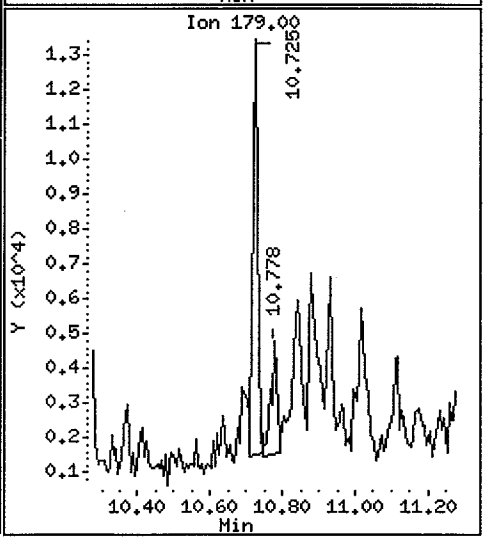












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

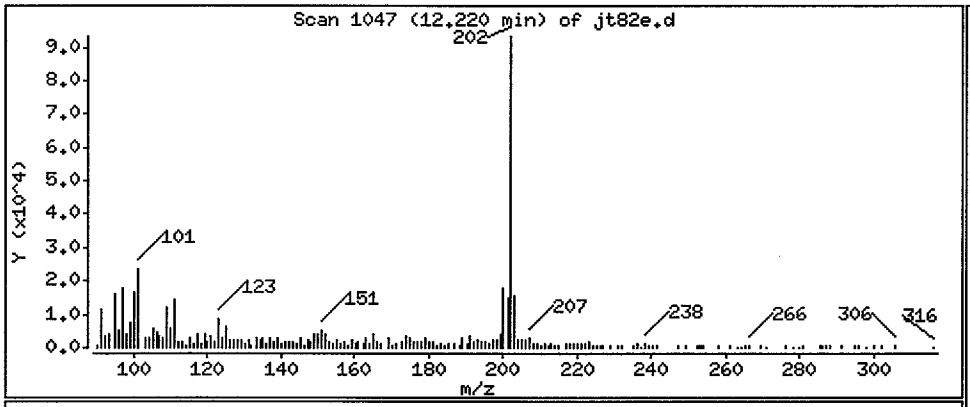
Operator: VTS

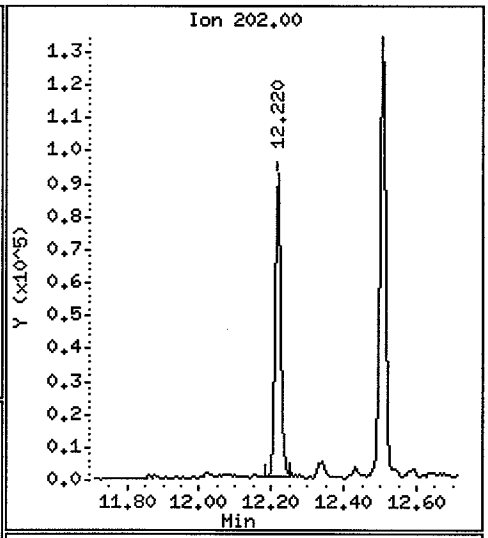
Column phase: ZB-5

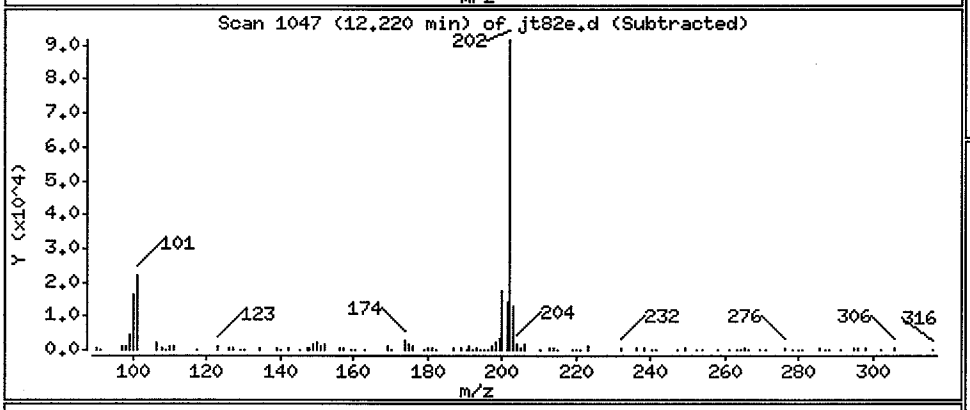
Column diameter: 0.25

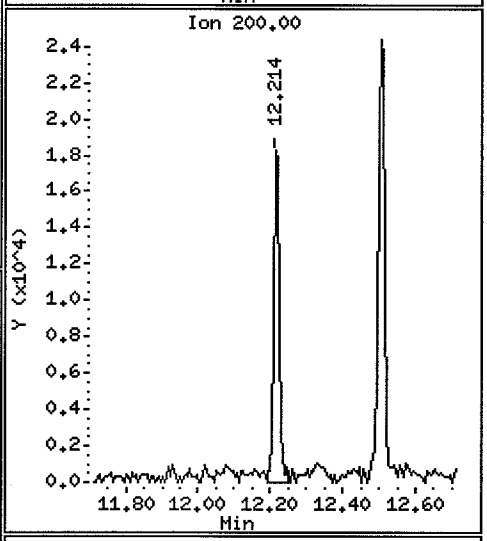
19 Fluoranthene

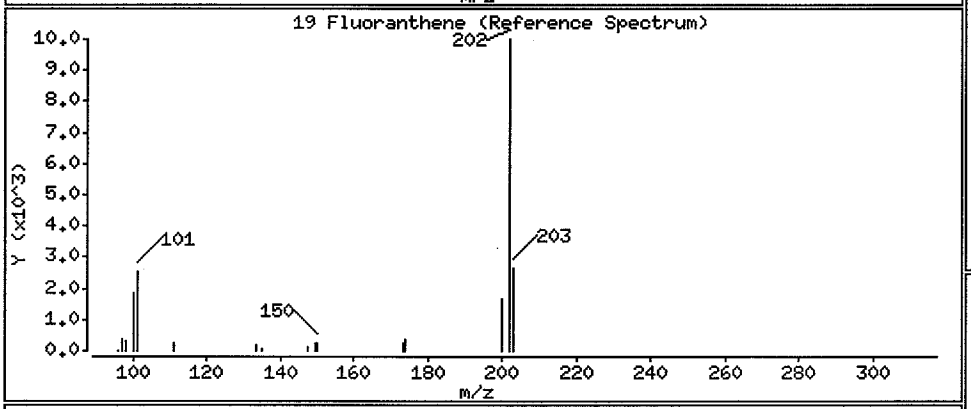
Concentration: 38.86 ug/kg

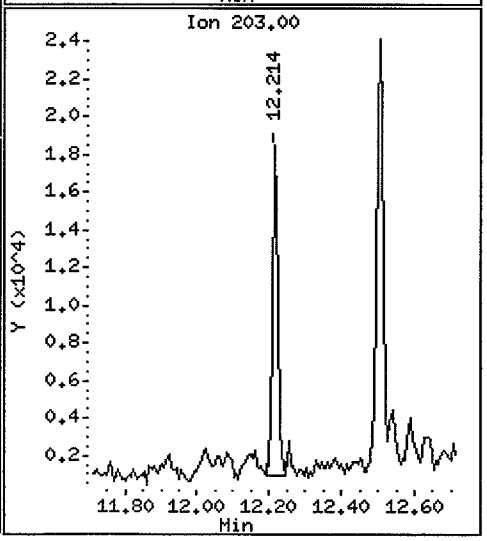


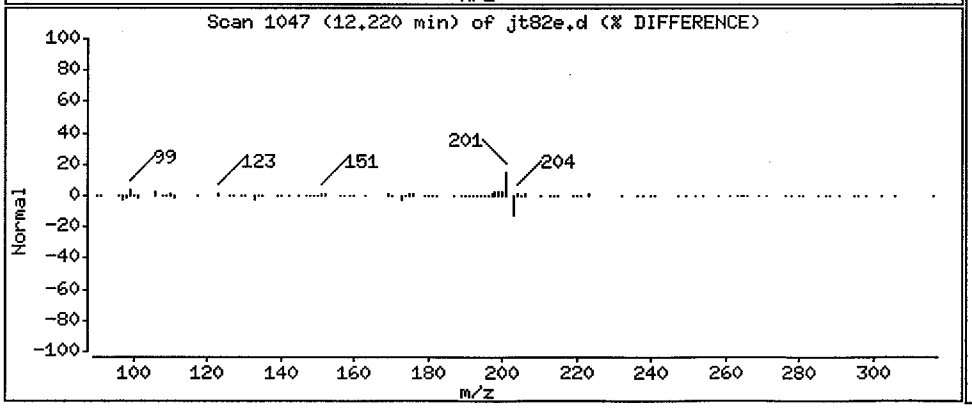












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

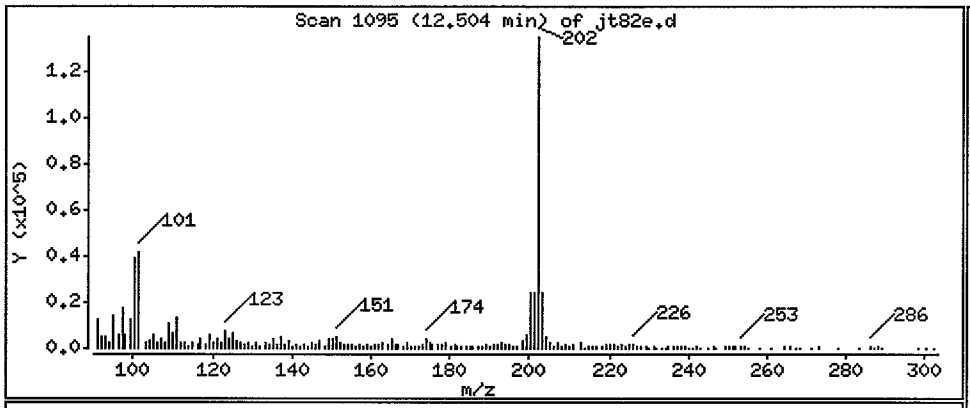
Operator: VTS

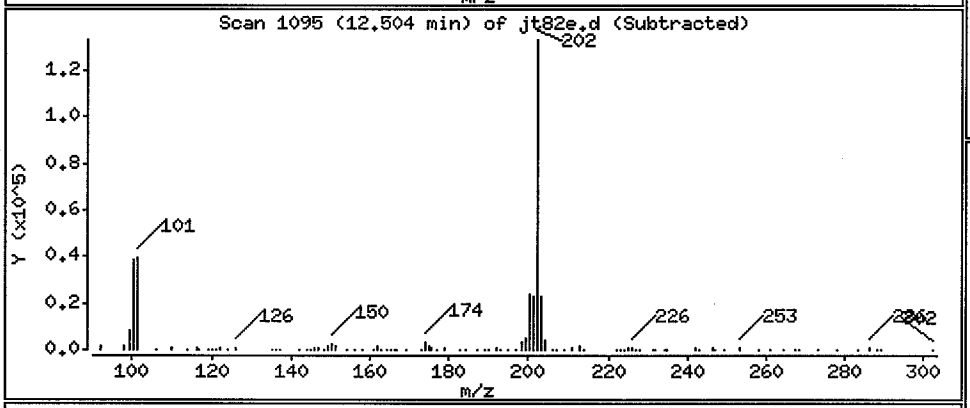
Column phase: ZB-5

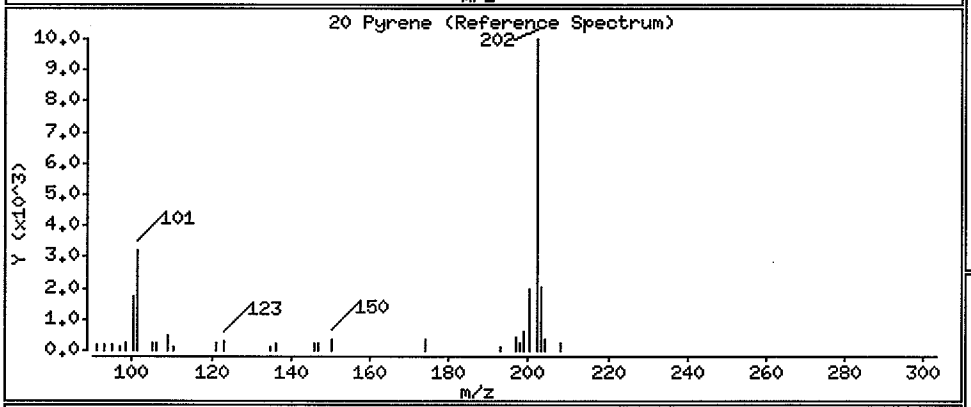
Column diameter: 0.25

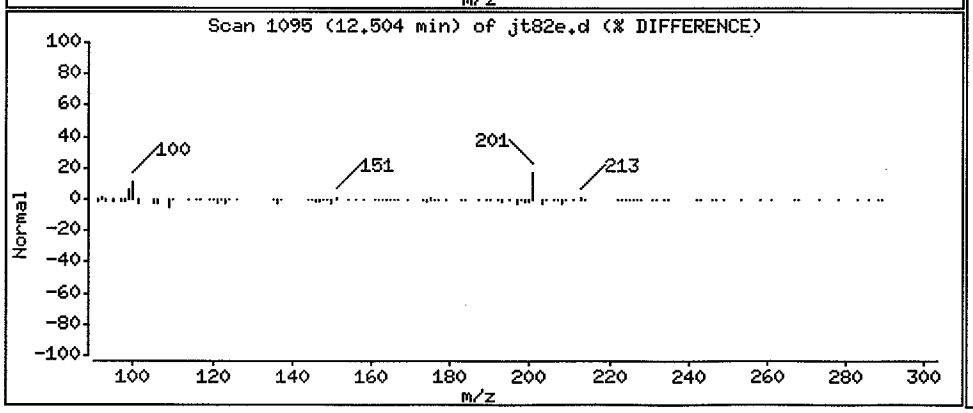
20 Pyrene

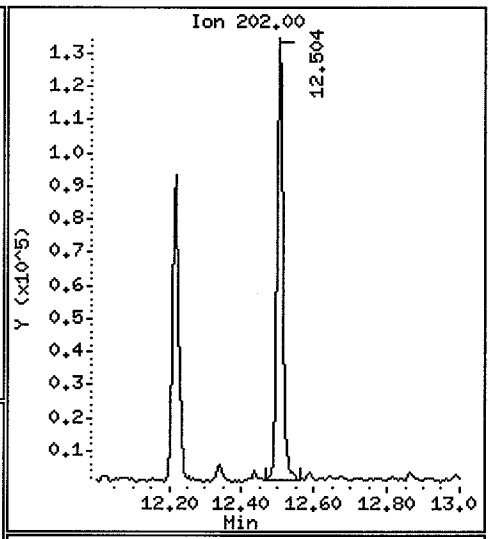
Concentration: 65.15 ug/kg

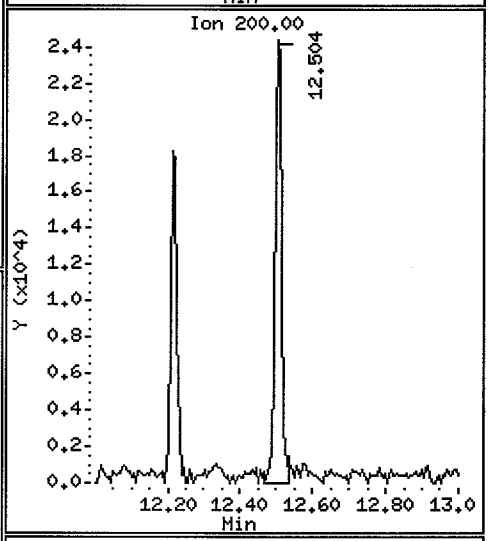


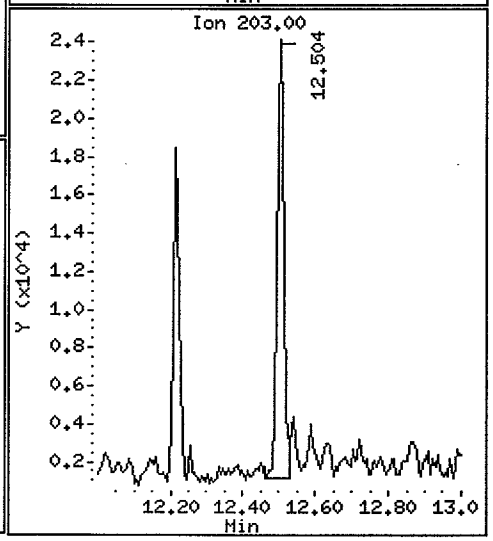












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

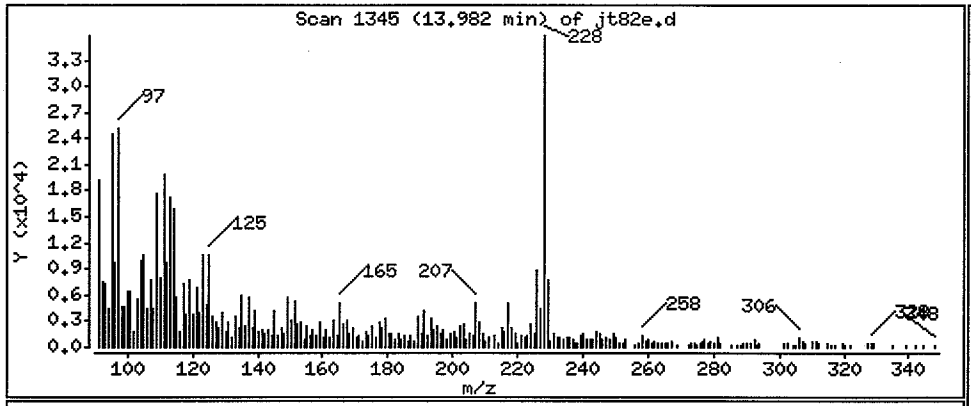
Operator: VTS

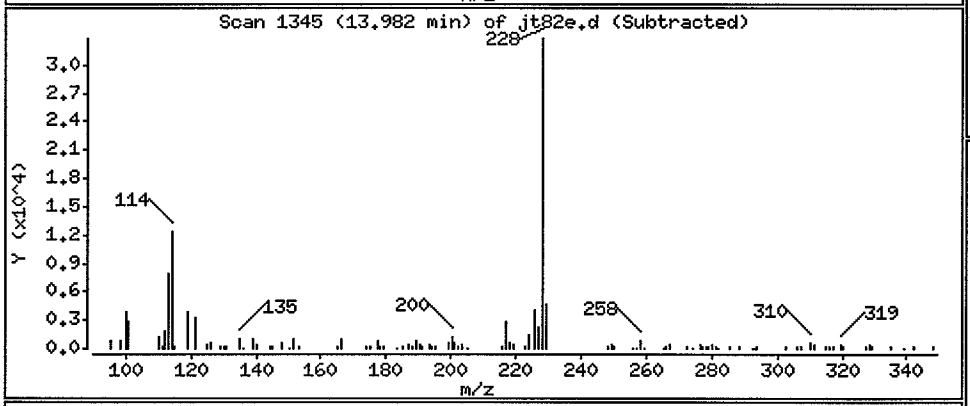
Column phase: ZB-5

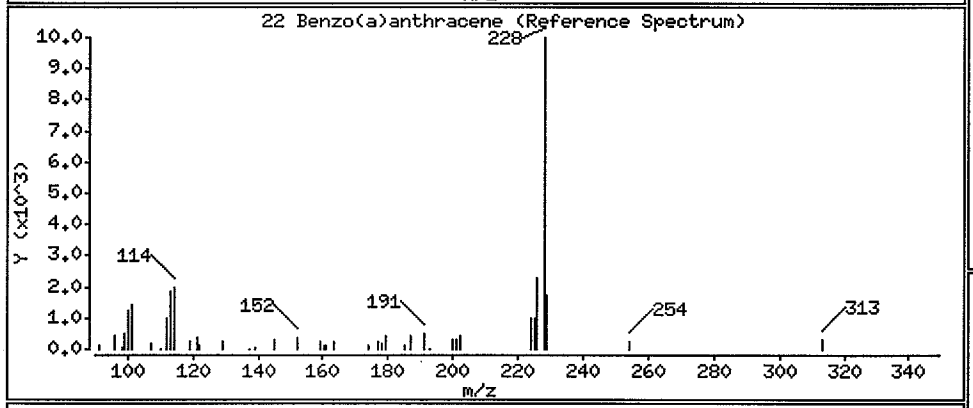
Column diameter: 0.25

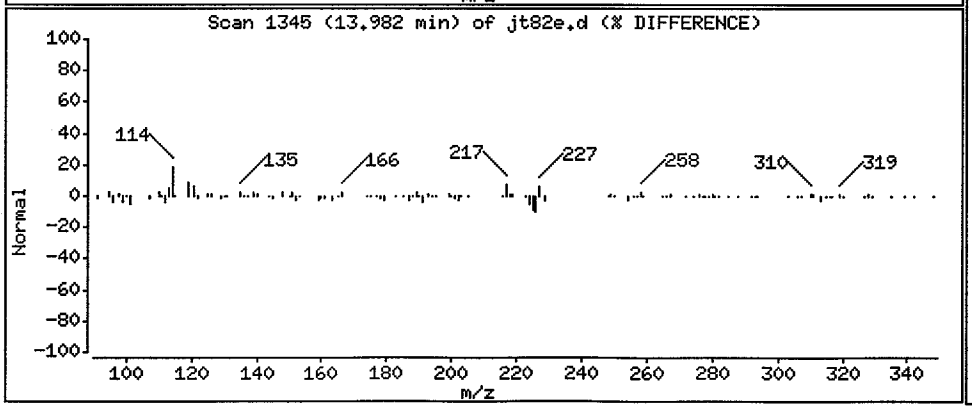
22 Benzo(a)anthracene

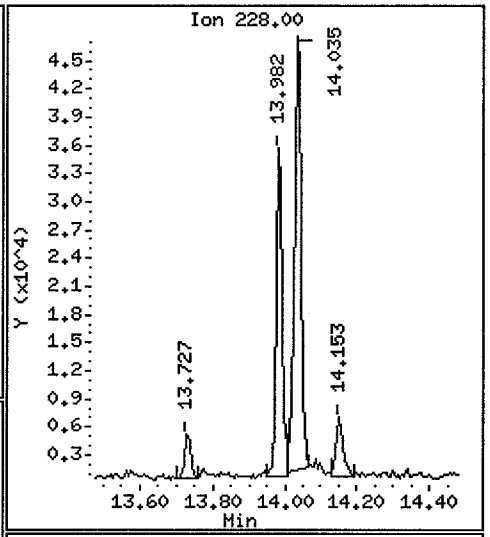
Concentration: 18.52 ug/kg

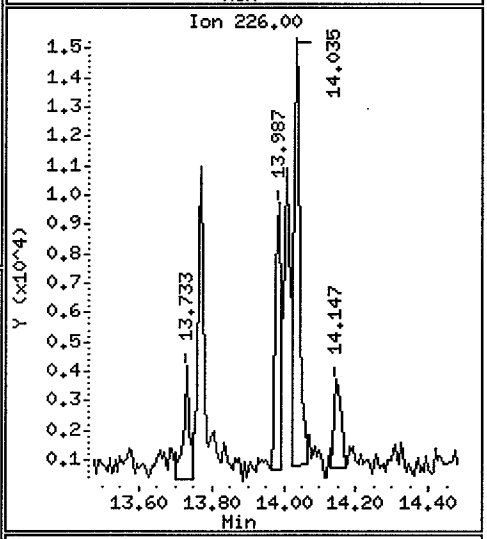


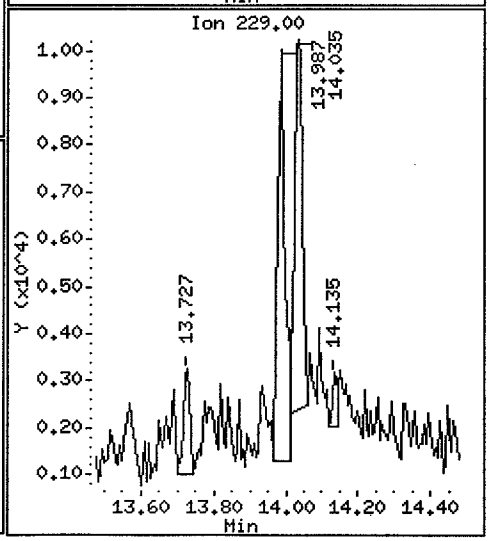












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

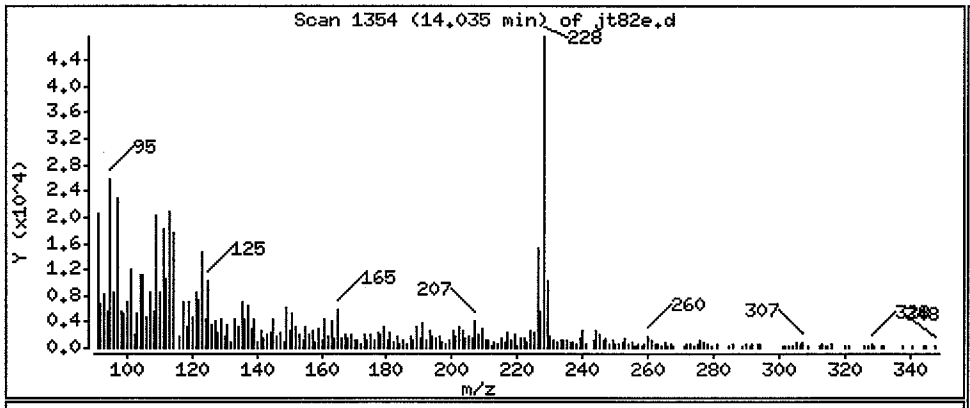
Operator: VTS

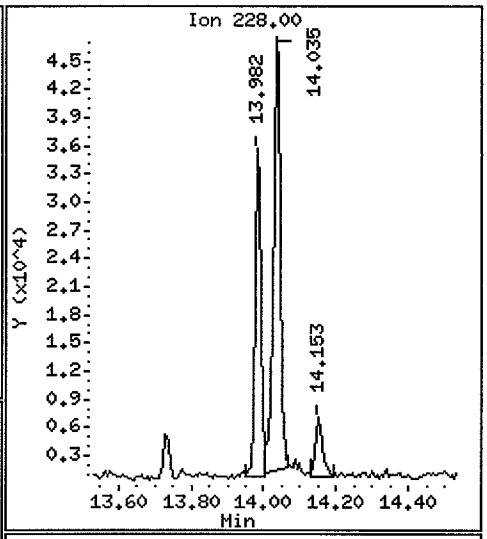
Column phase: ZB-5

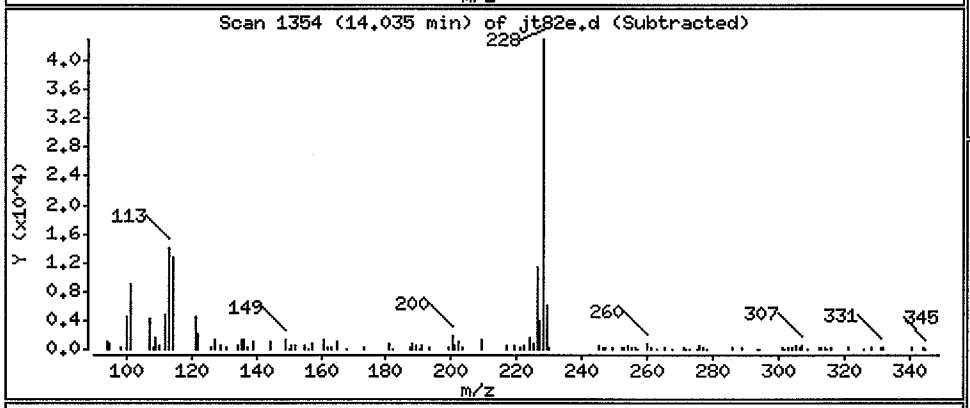
Column diameter: 0.25

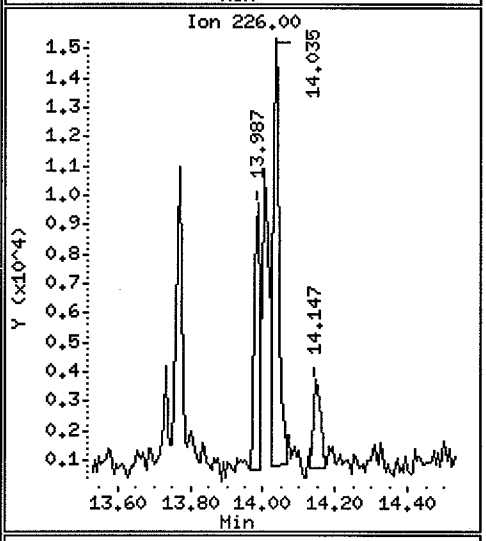
24 Chrysene

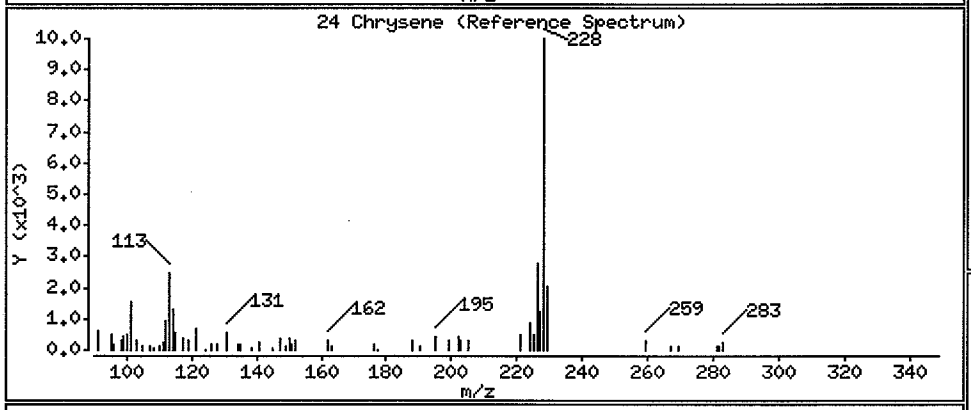
Concentration: 30.34 ug/kg

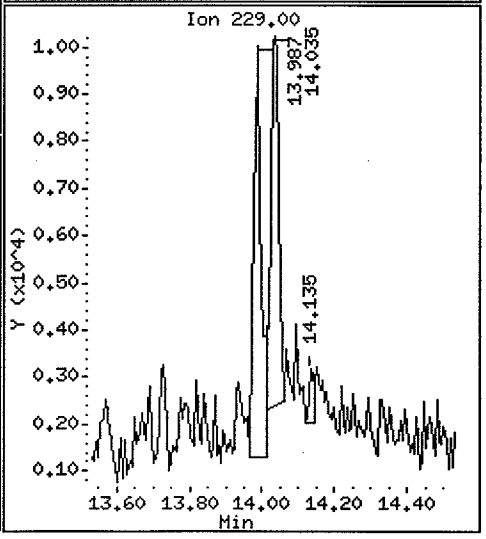


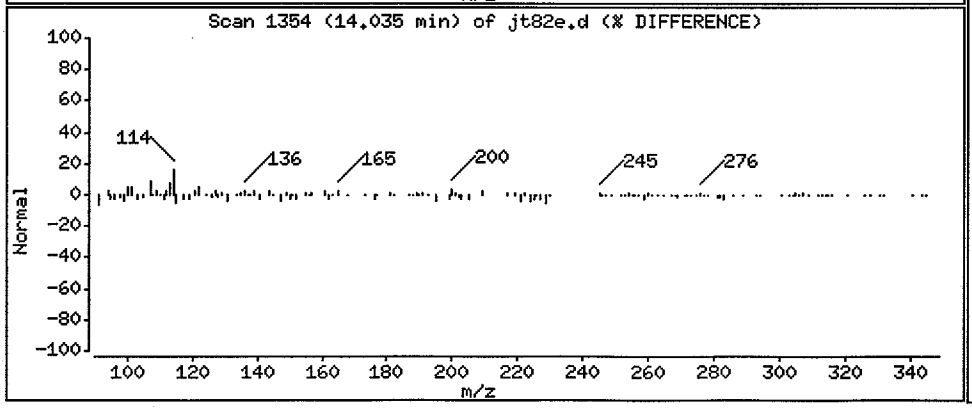












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

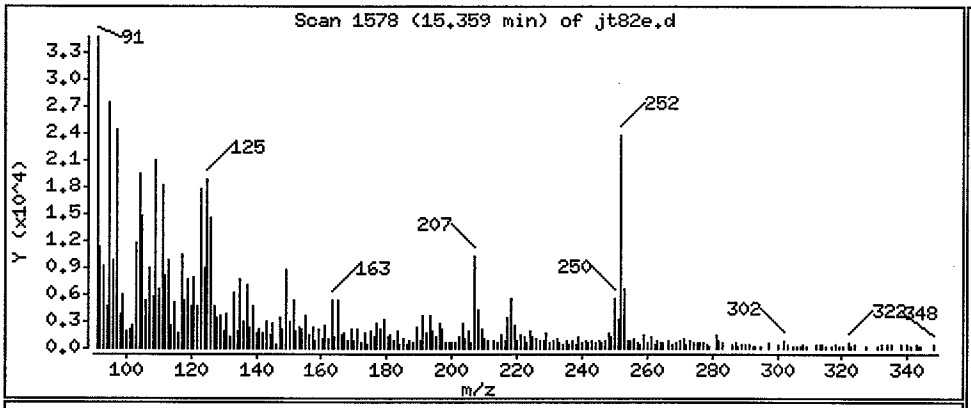
Operator: VTS

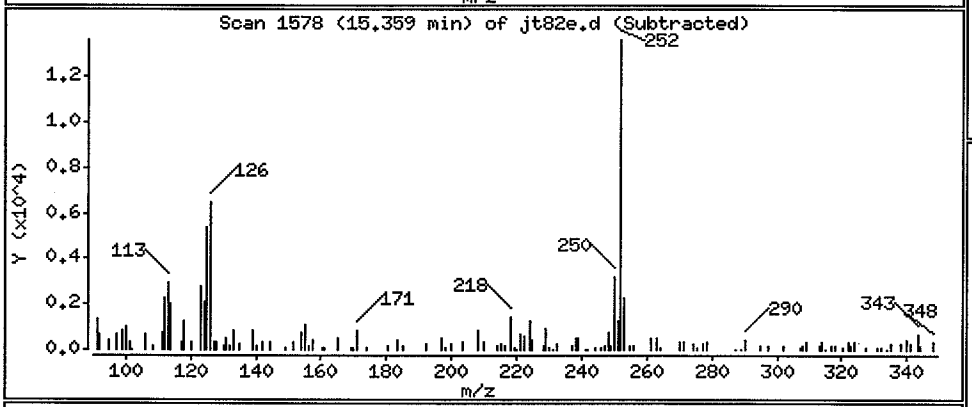
Column phase: ZB-5

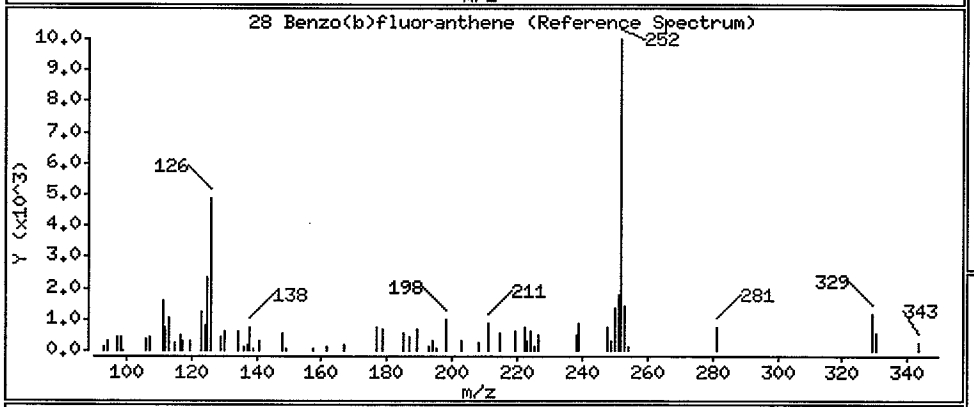
Column diameter: 0.25

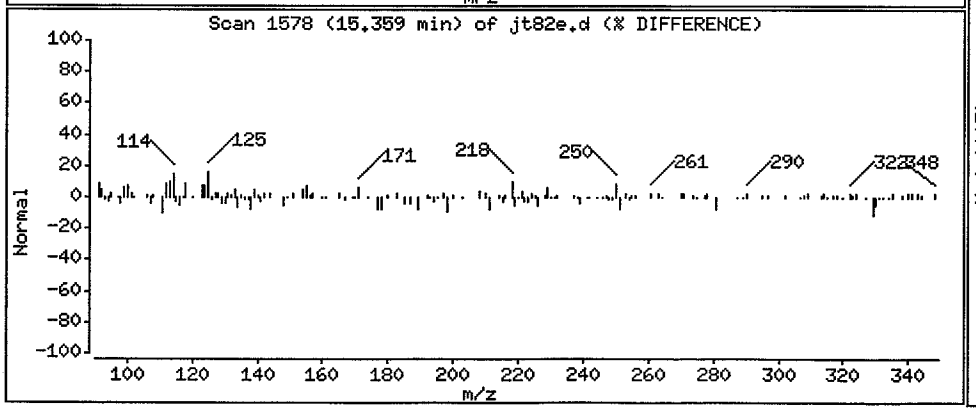
28 Benzo(b)fluoranthene

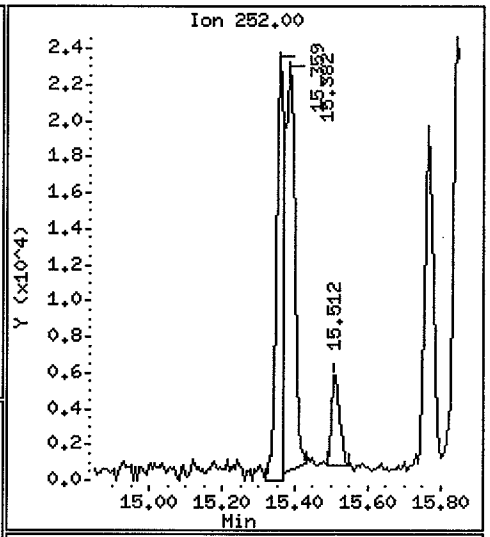
Concentration: 25.52 ug/kg

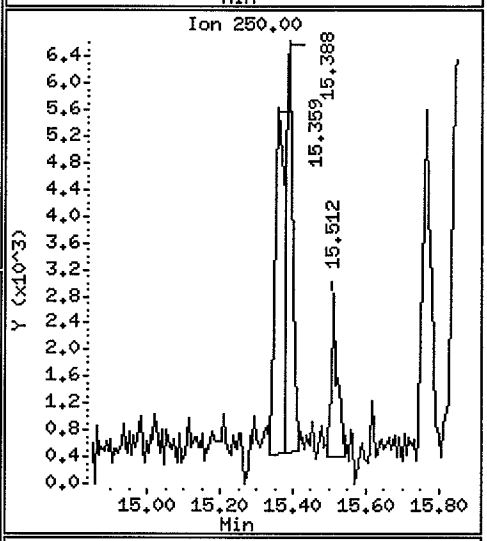


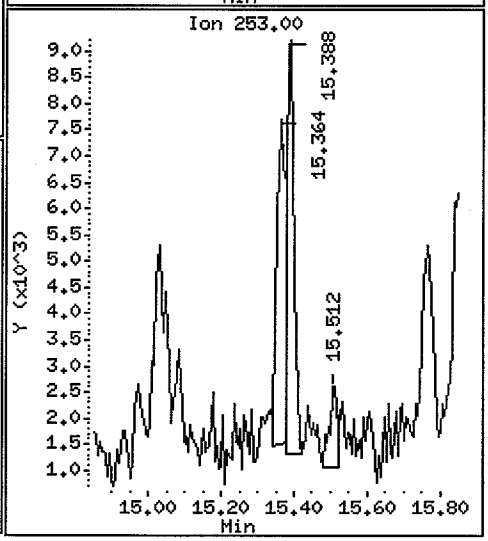












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

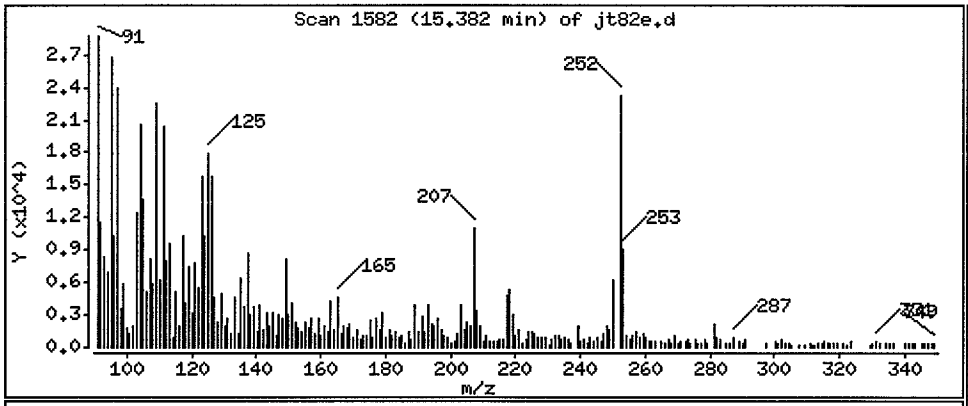
Operator: VTS

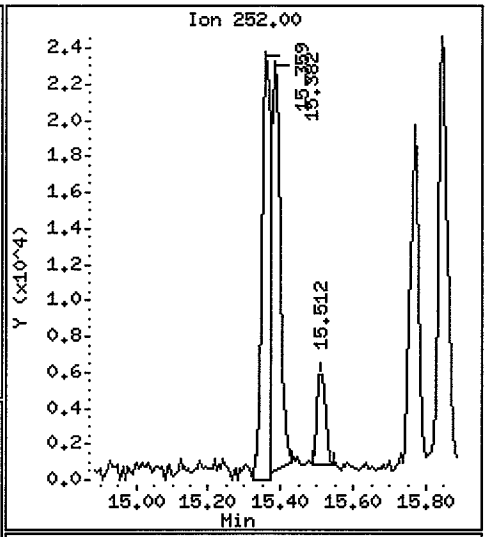
Column phase: ZB-5

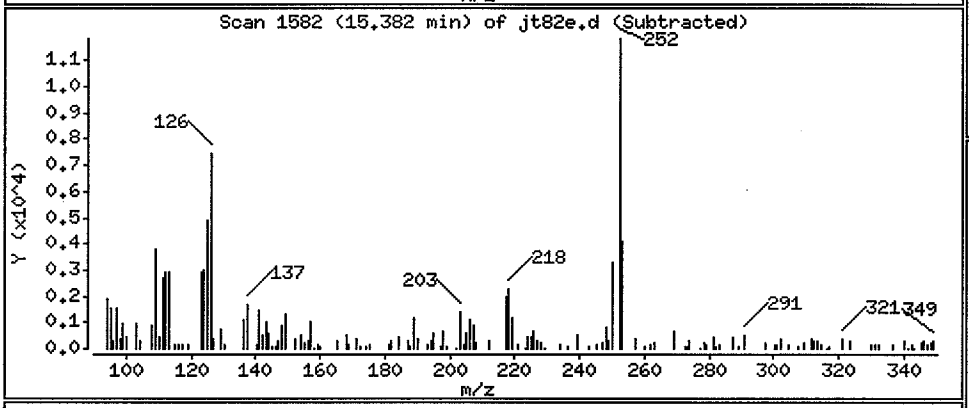
Column diameter: 0.25

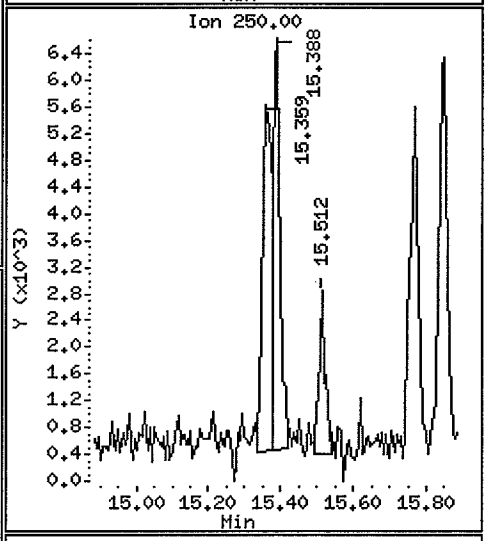
29 Benzo(k)fluoranthene

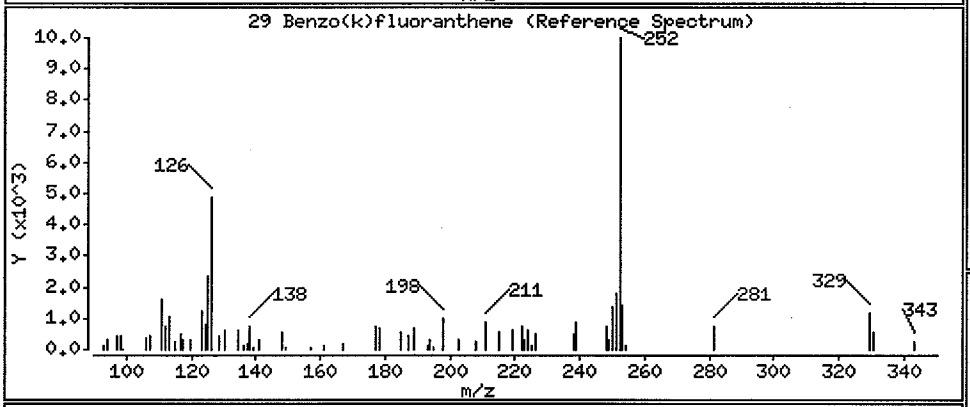
Concentration: 28.84 ug/kg

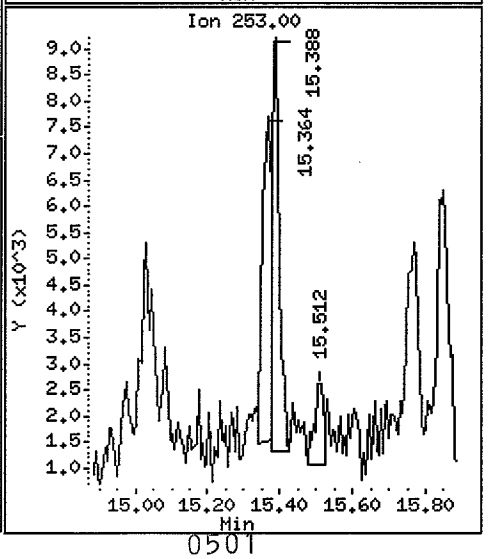


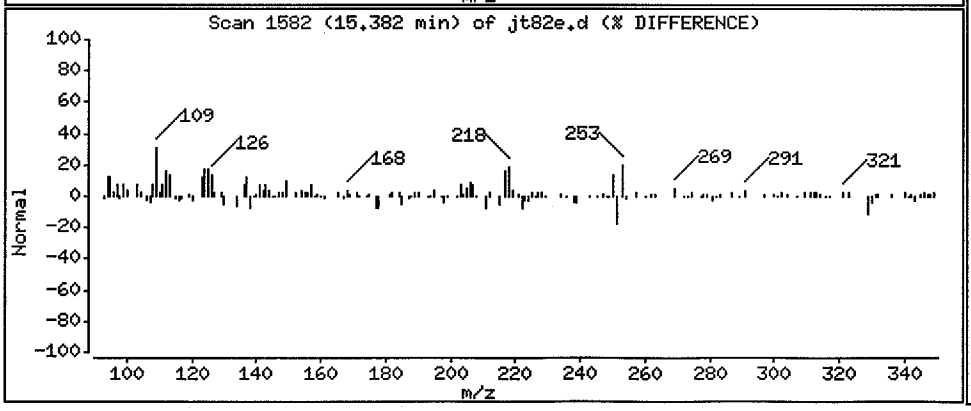












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

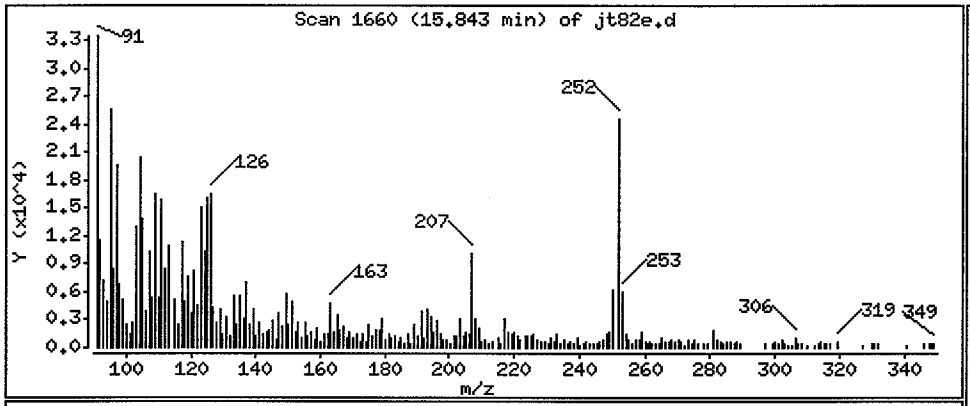
Operator: VTS

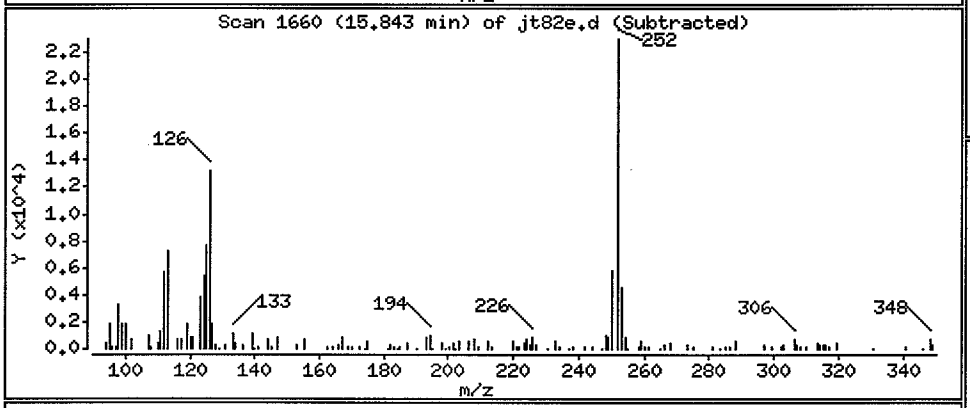
Column phase: ZB-5

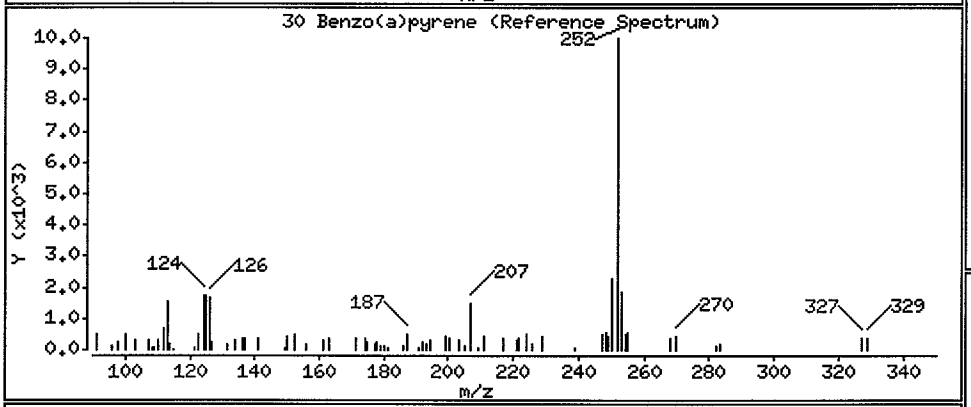
Column diameter: 0.25

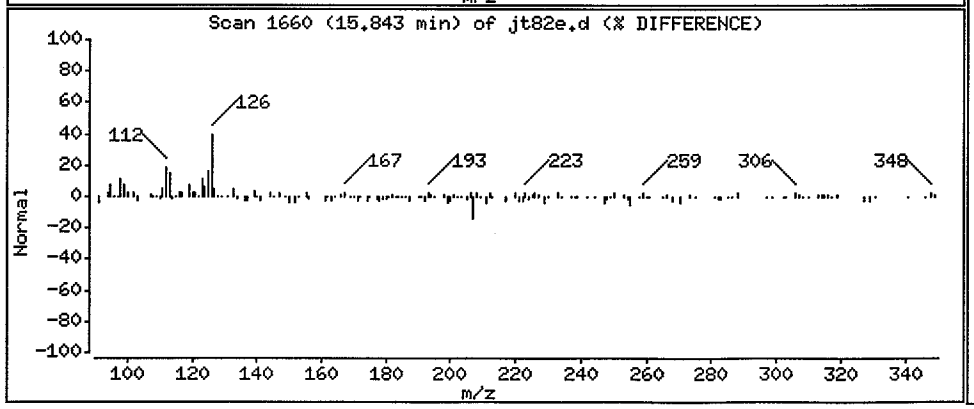
30 Benzo(a)pyrene

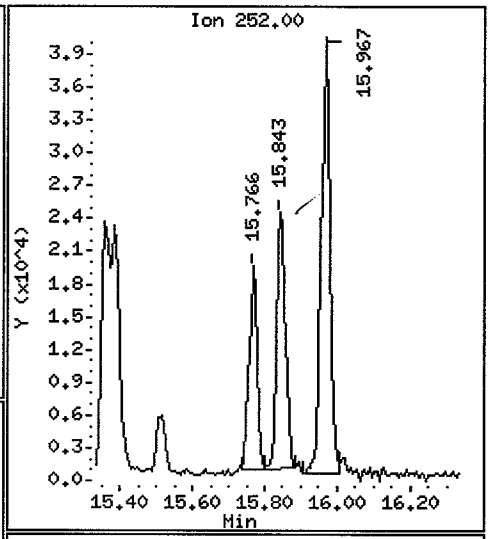
Concentration: 28.79 ug/kg

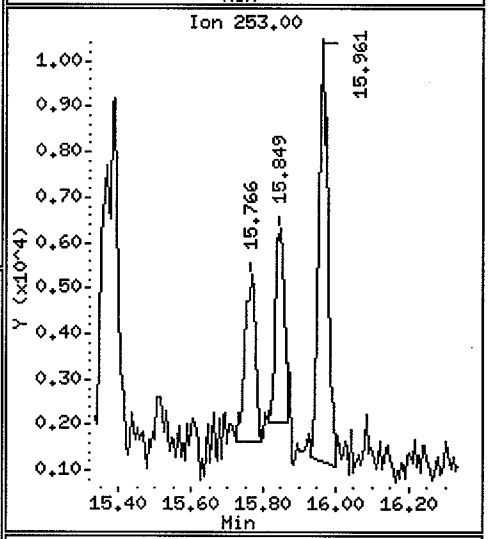


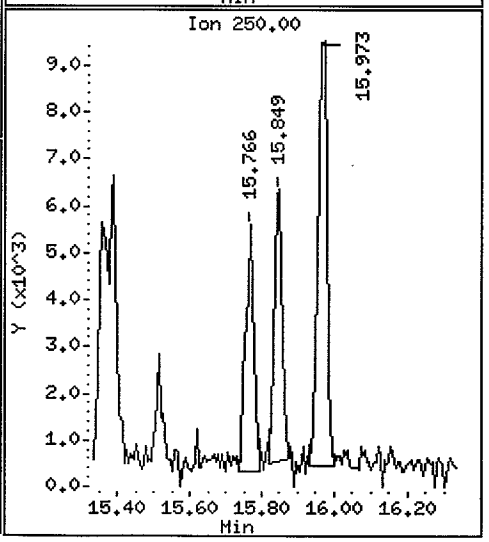












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

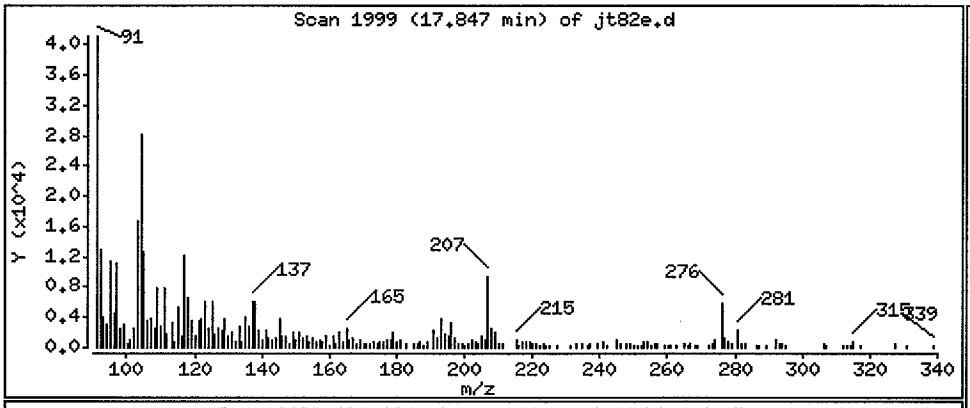
Operator: VTS

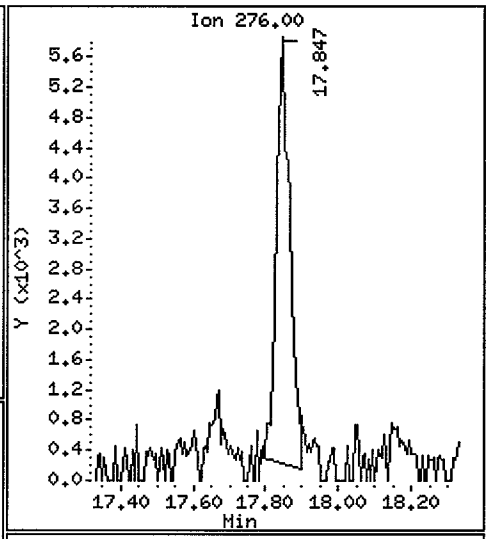
Column phase: ZB-5

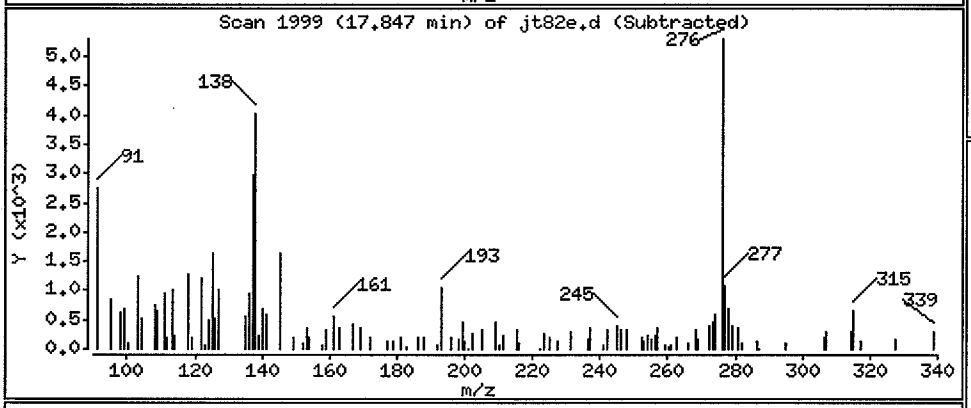
Column diameter: 0.25

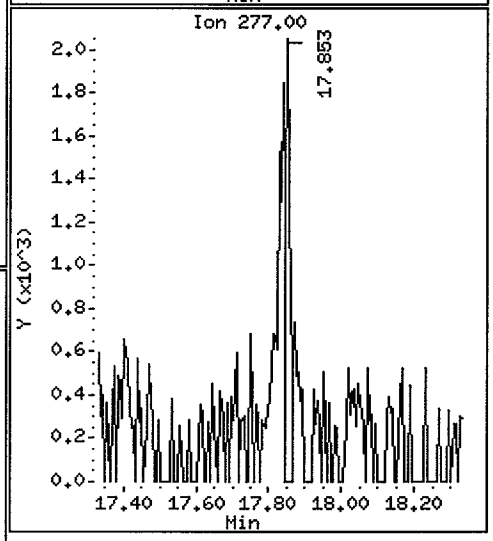
33 Indeno(1,2,3-cd)pyrene

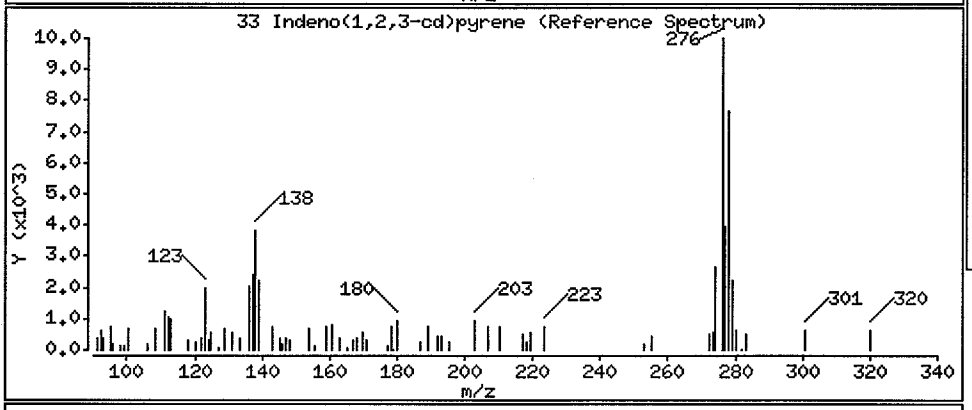
Concentration: 9.444 ug/kg

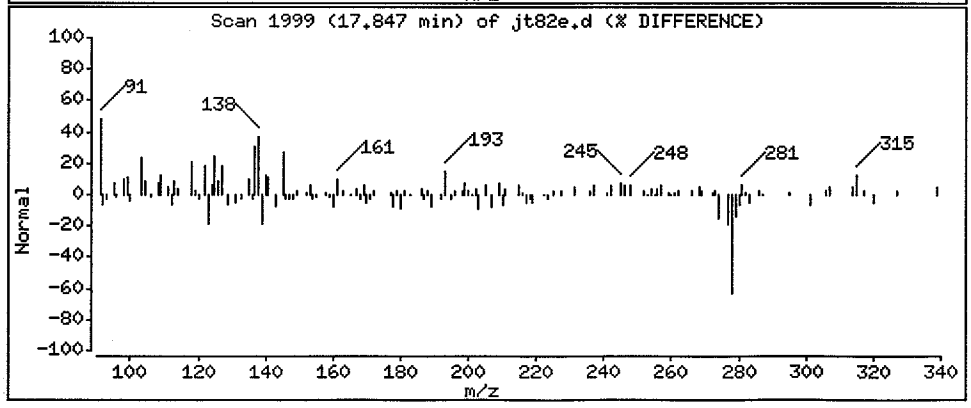












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

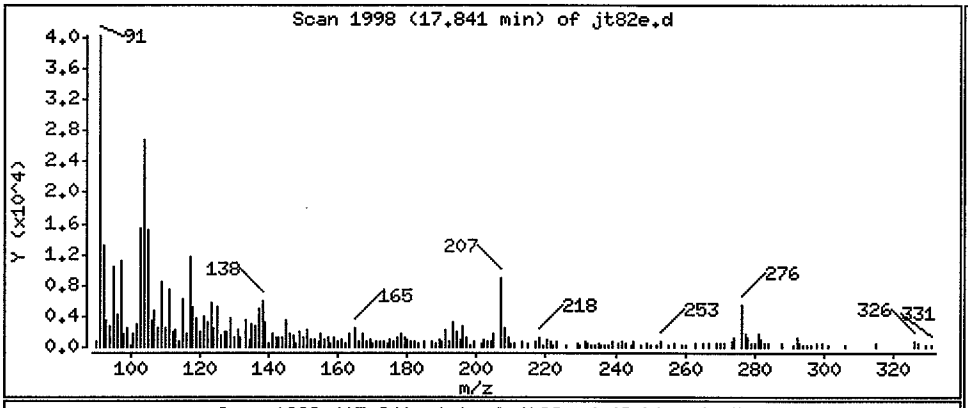
Operator: VTS

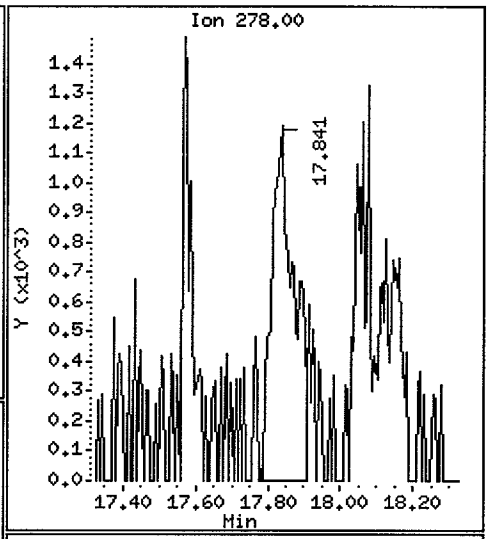
Column phase: ZB-5

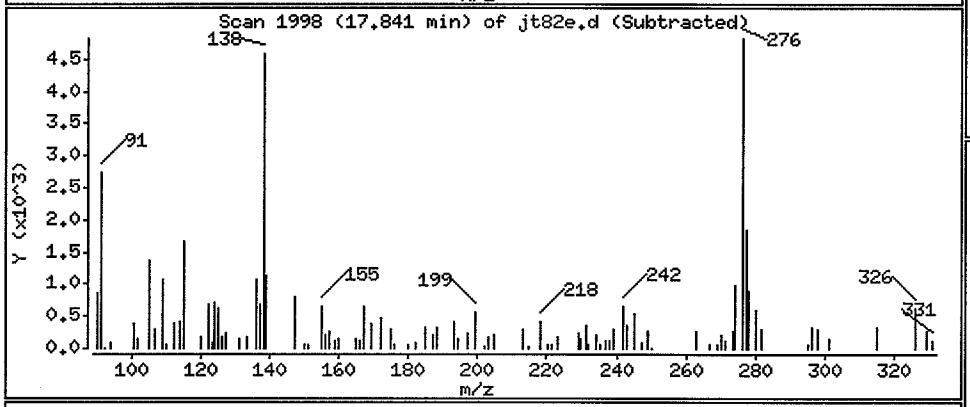
Column diameter: 0.25

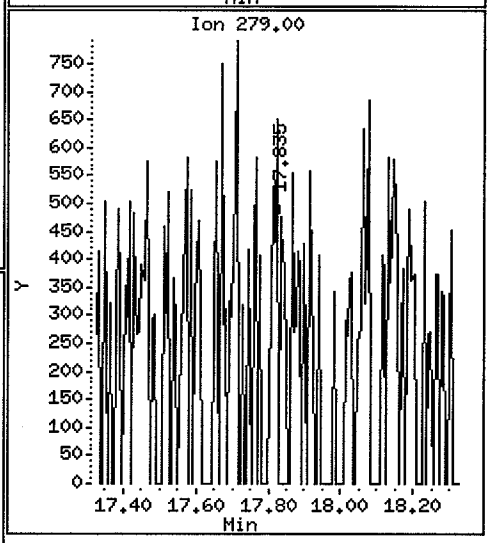
34 Dibenz(a,h)anthracene

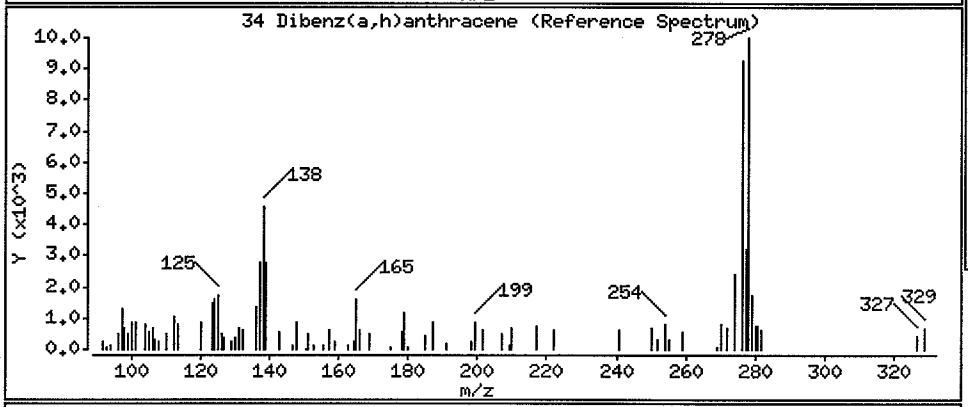
Concentration: 3.976 ug/kg

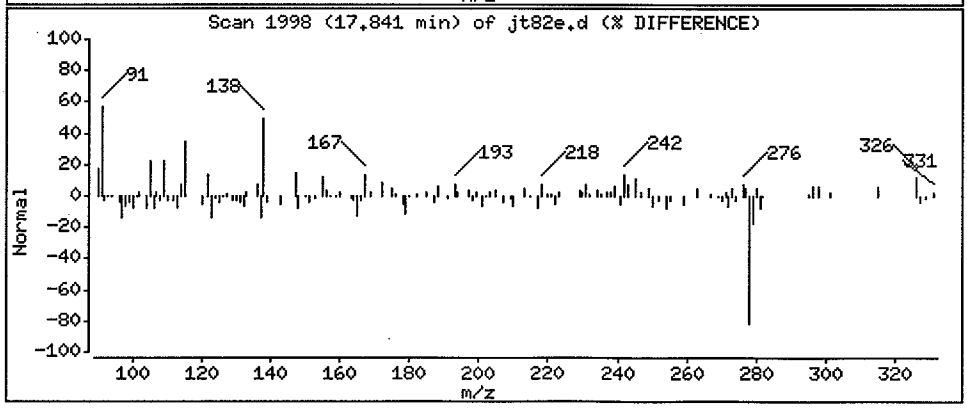












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

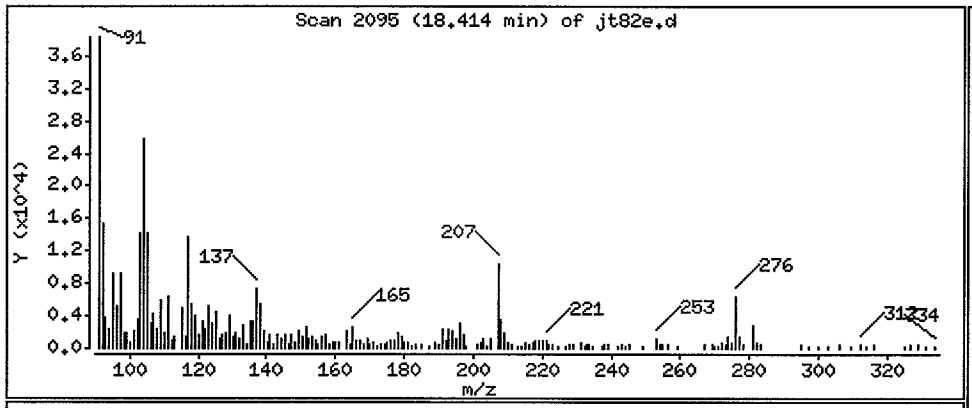
Operator: VTS

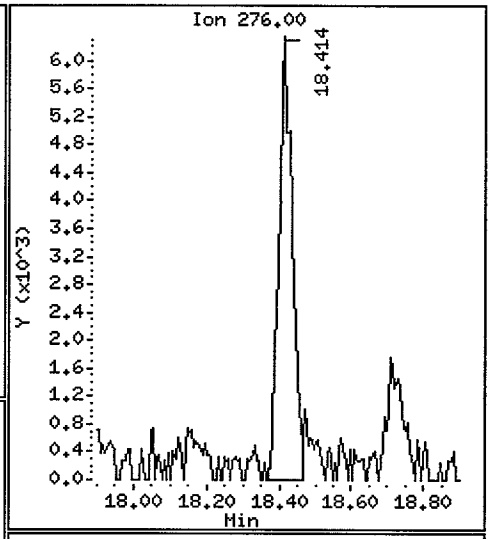
Column phase: ZB-5

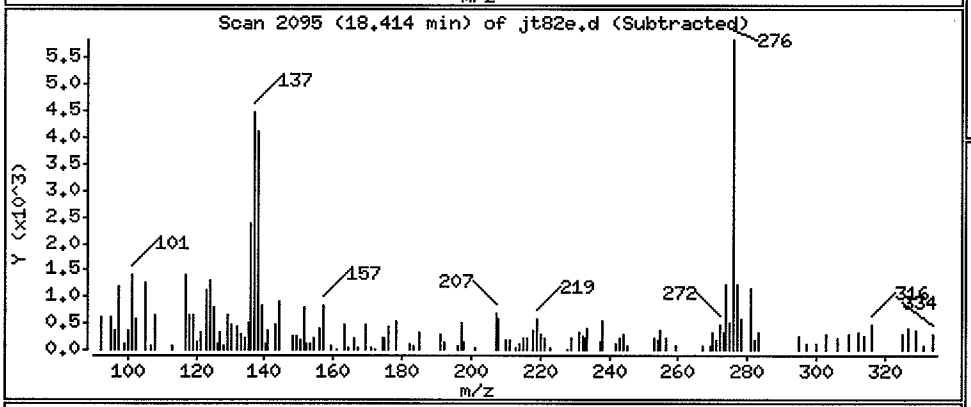
Column diameter: 0.25

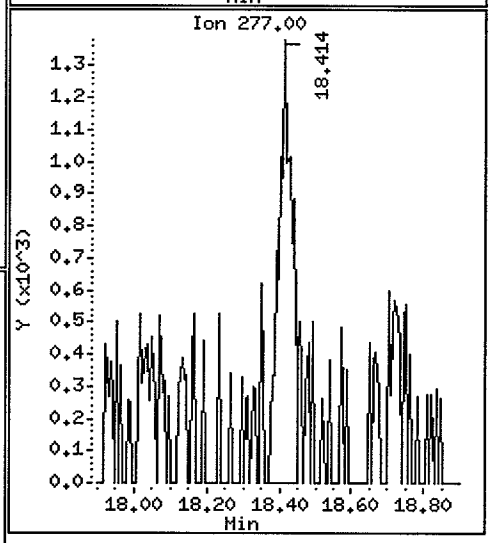
35 Benzo(g,h,i)perylene

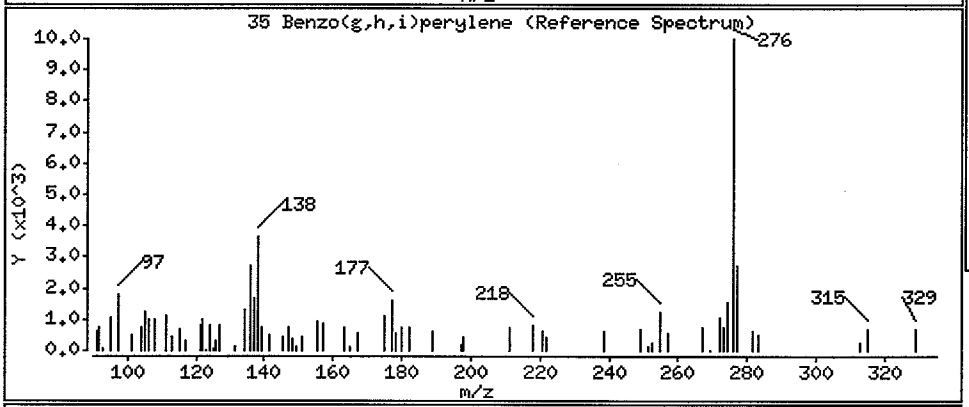
Concentration: 12.51 ug/kg

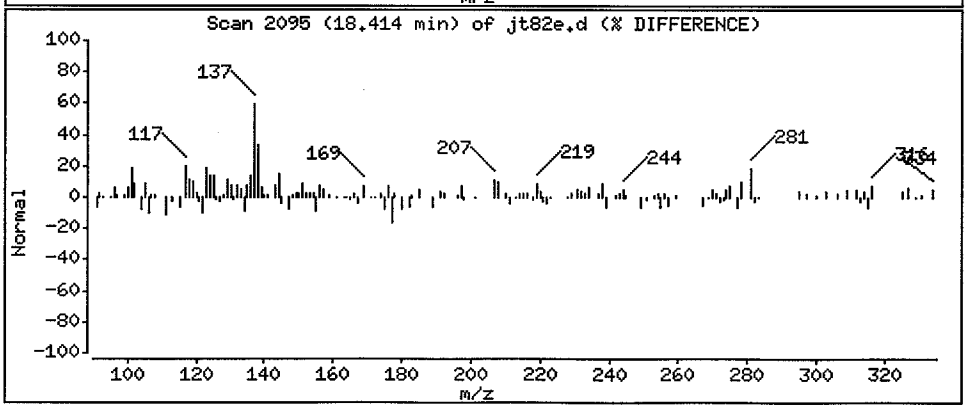












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

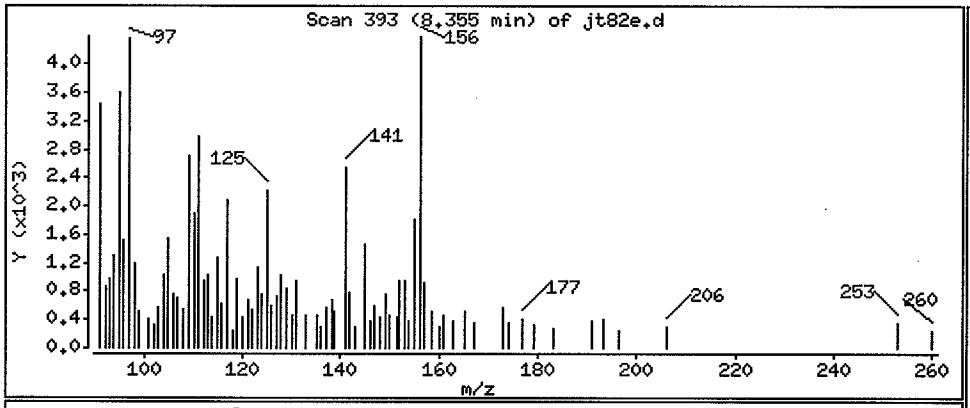
Operator: VTS

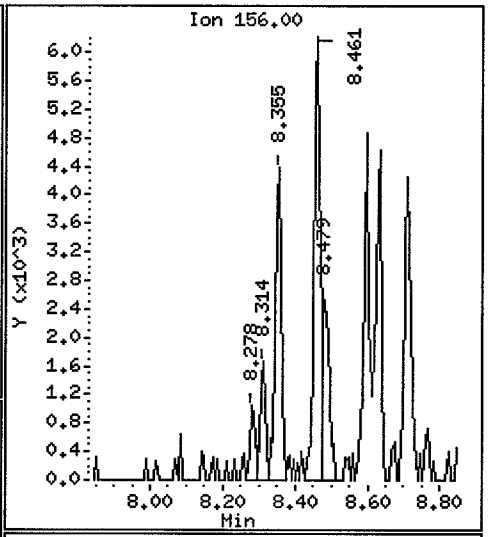
Column phase: ZB-5

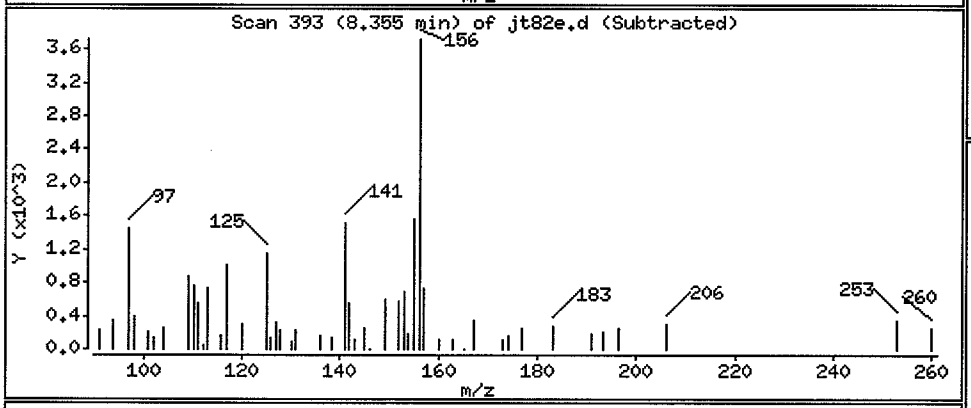
Column diameter: 0.25

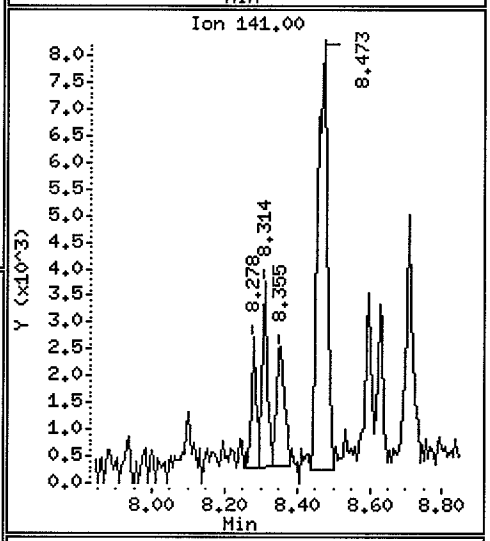
49 2,6-Dimethylnaphthalene

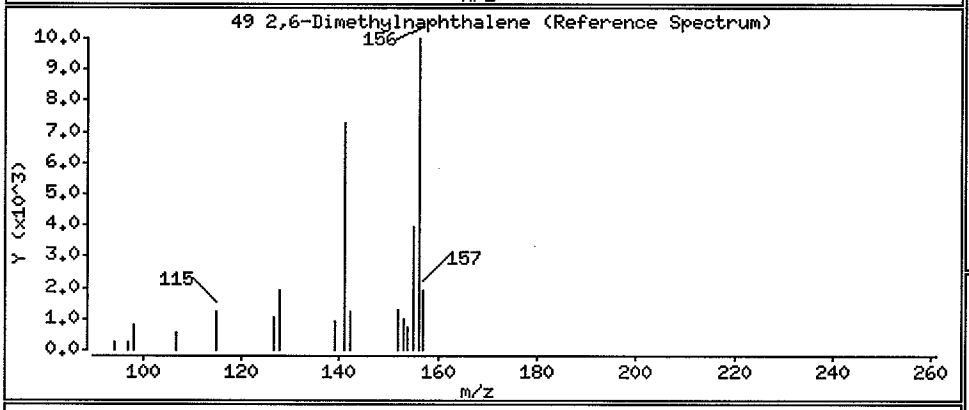
Concentration: 2.737 ug/kg

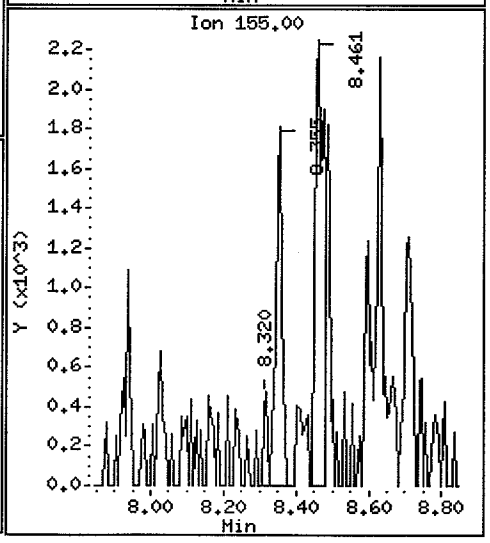


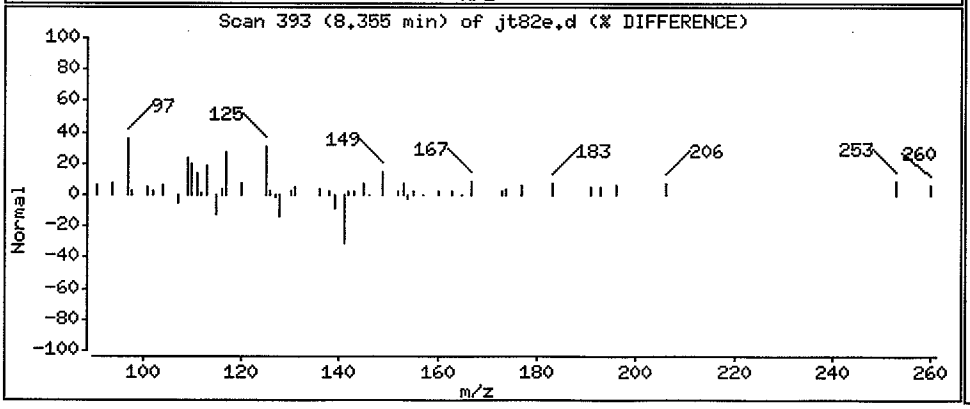












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

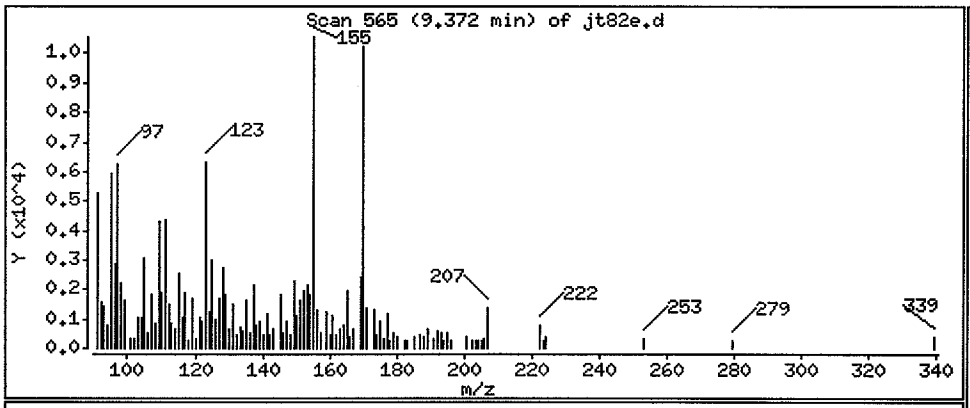
Operator: VTS

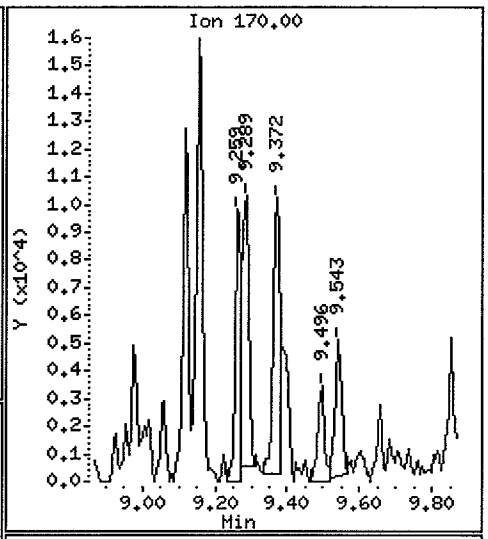
Column phase: ZB-5

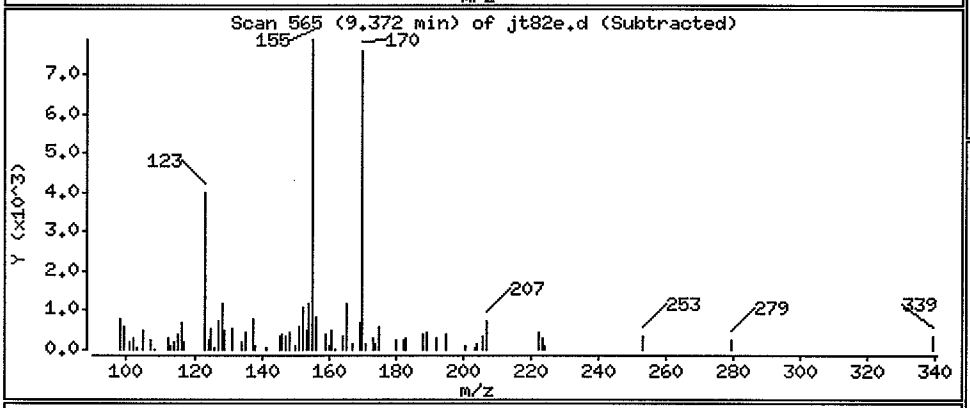
Column diameter: 0.25

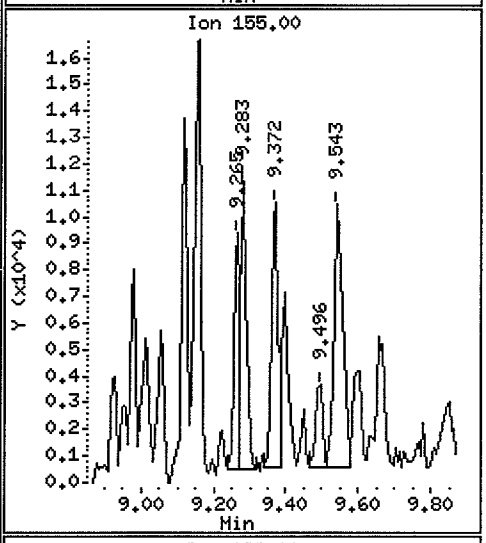
50 2,3,5-Trimethylnaphthalene

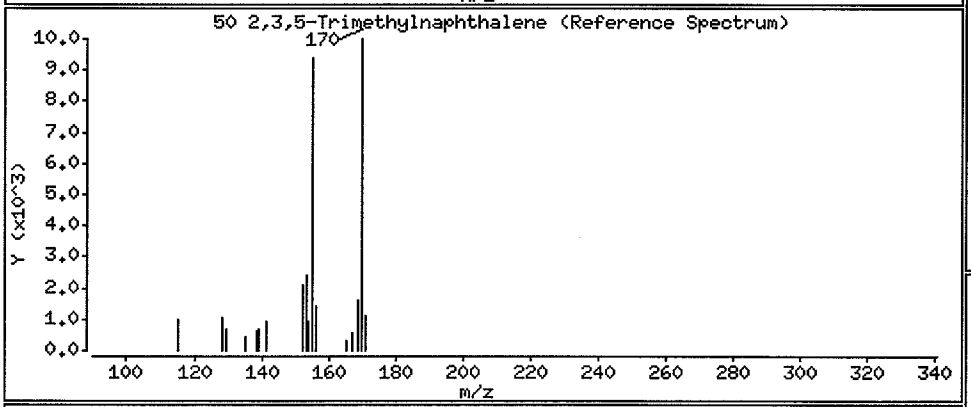
Concentration: 8.758 ug/kg

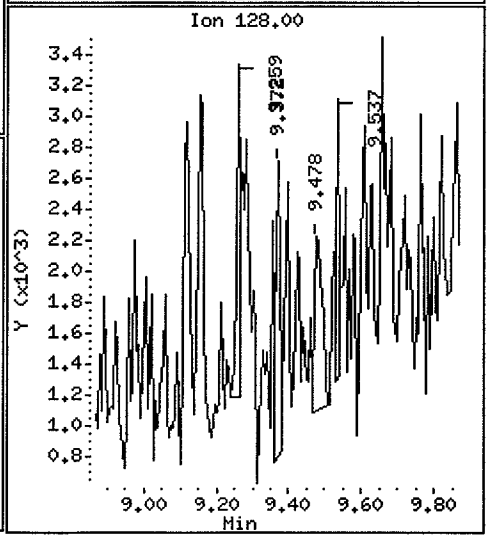


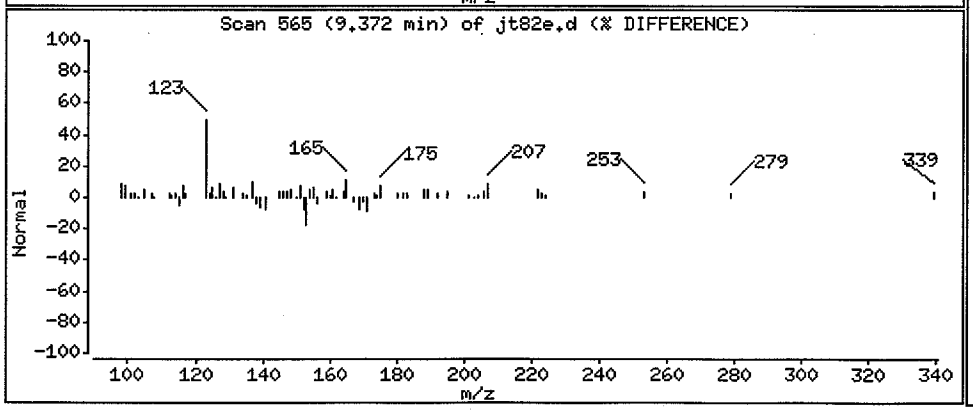












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

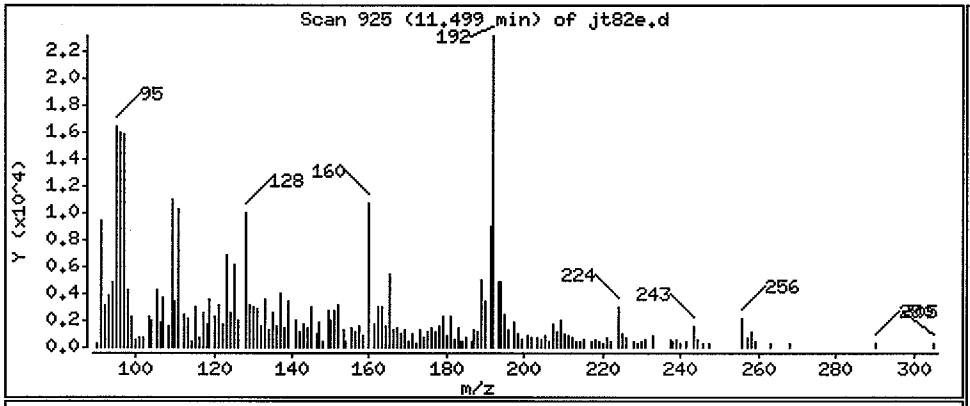
Operator: VTS

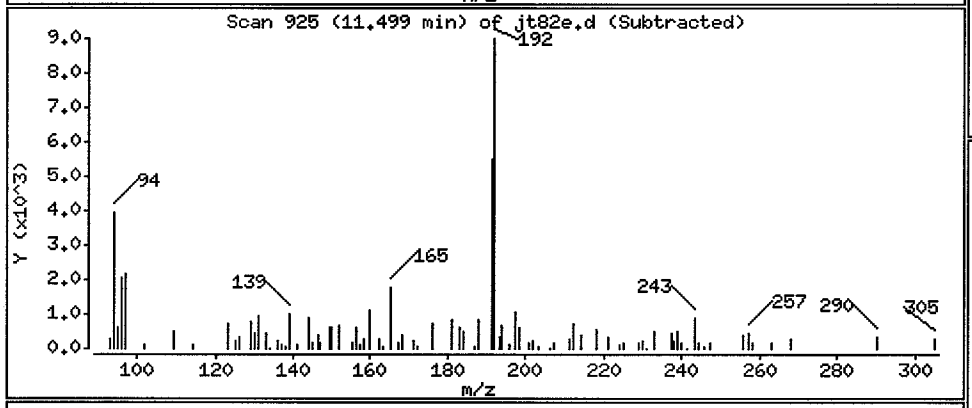
Column phase: ZB-5

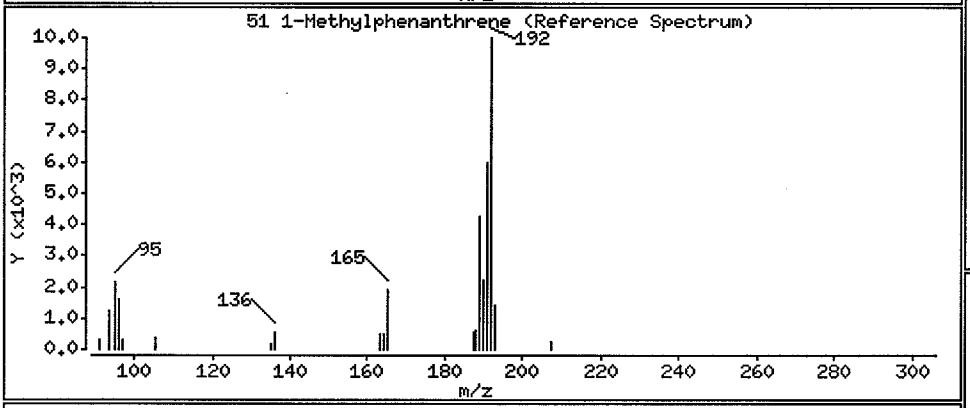
Column diameter: 0.25

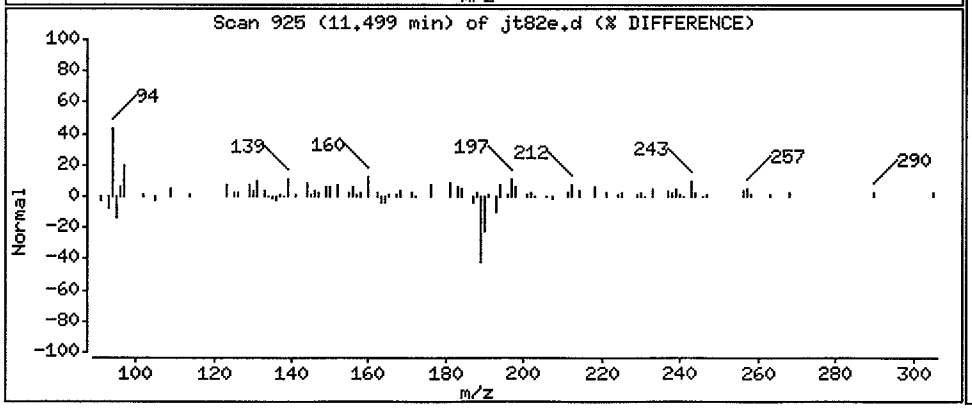
51 1-Methylphenanthrene

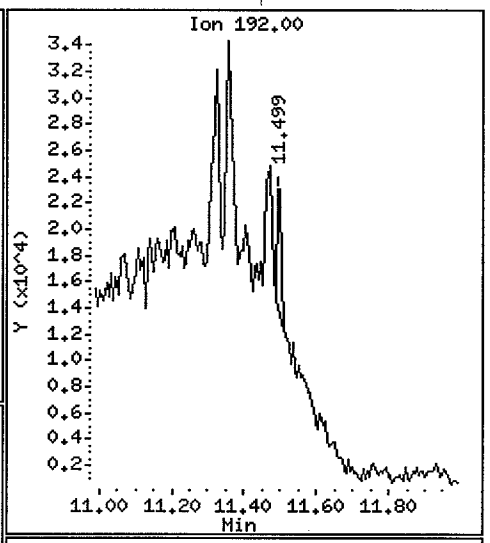
Concentration: 4.968 ug/kg

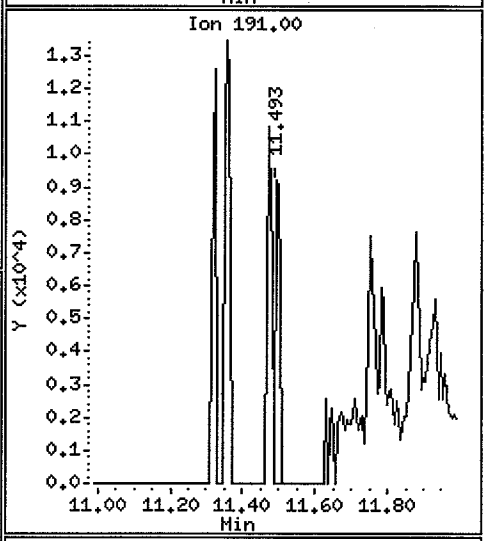


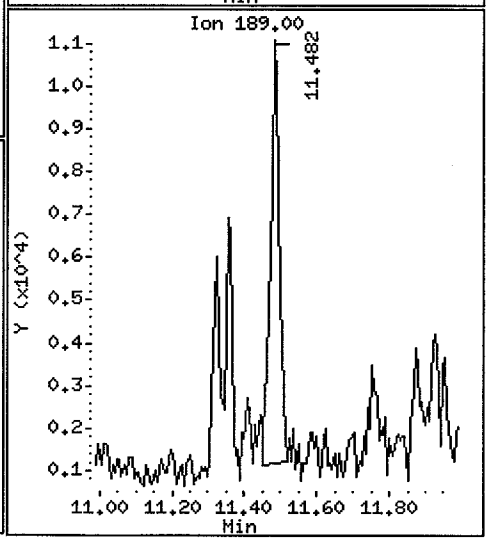












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

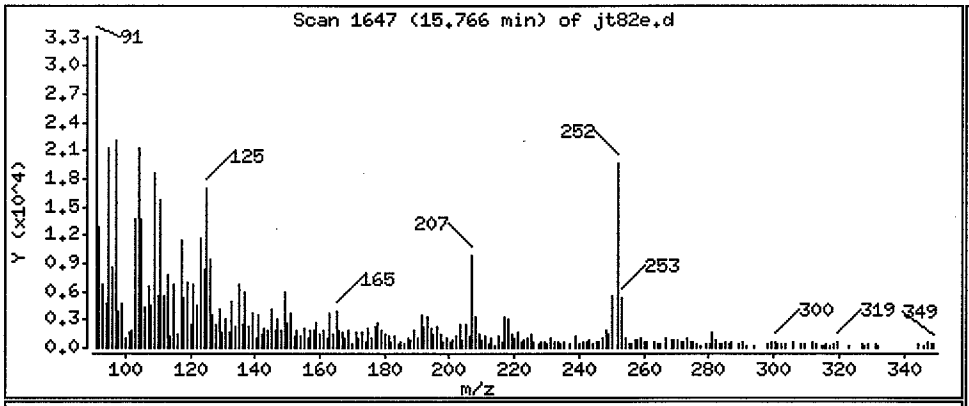
Operator: VTS

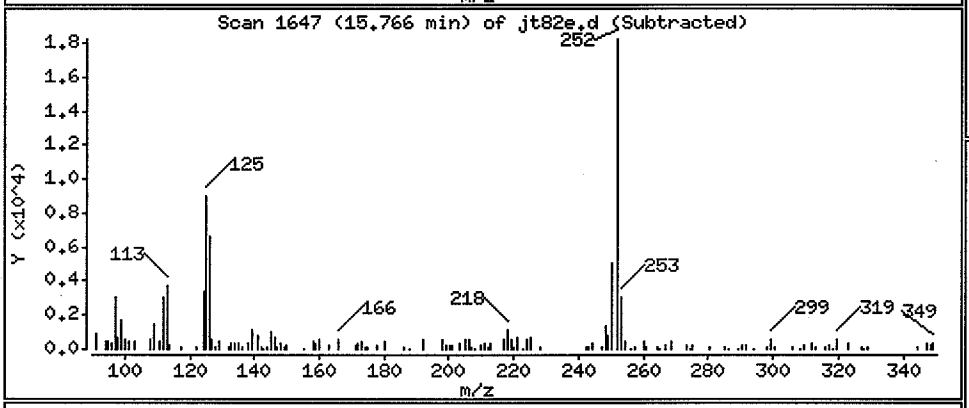
Column phase: ZB-5

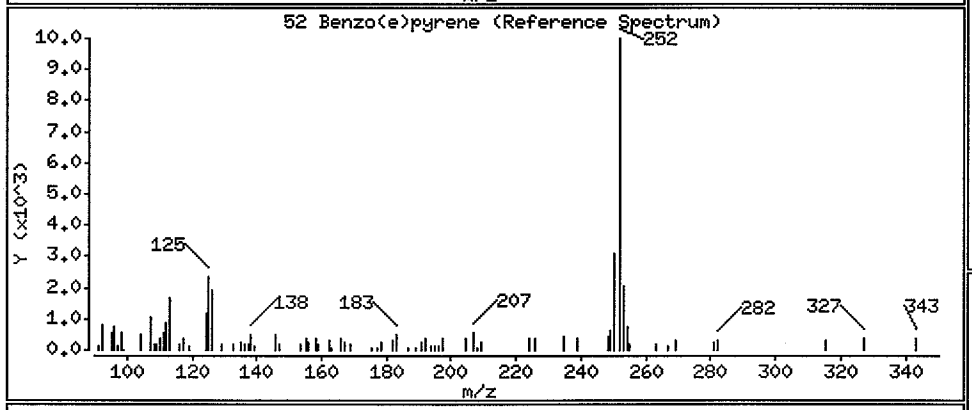
Column diameter: 0.25

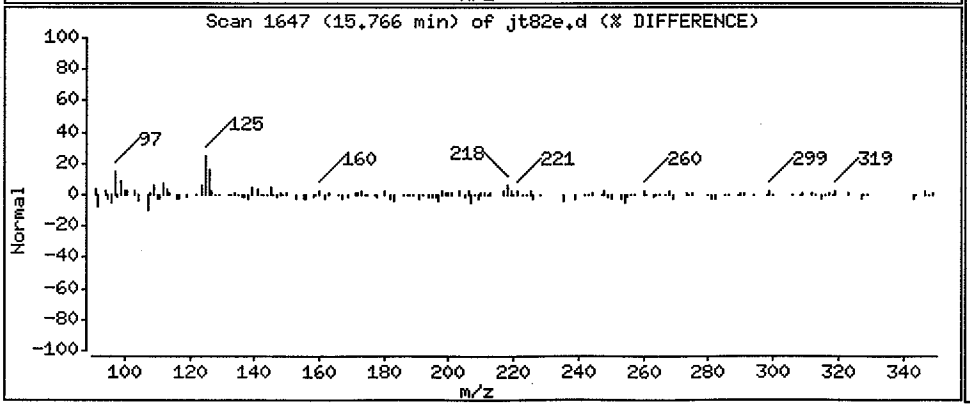
52 Benzo(e)pyrene

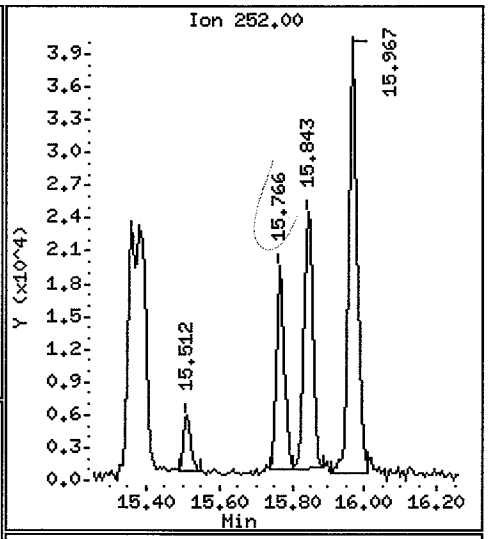
Concentration: 18.93 ug/kg

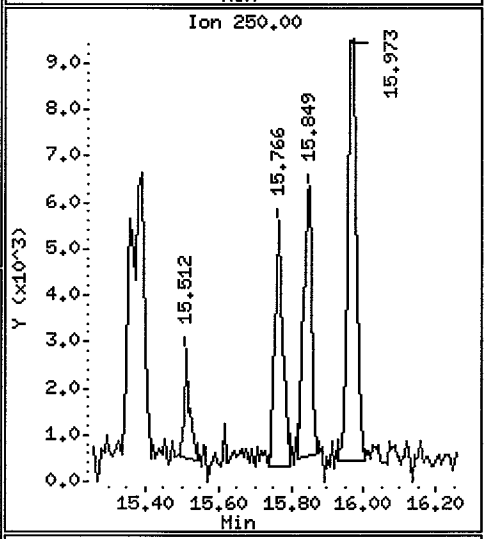


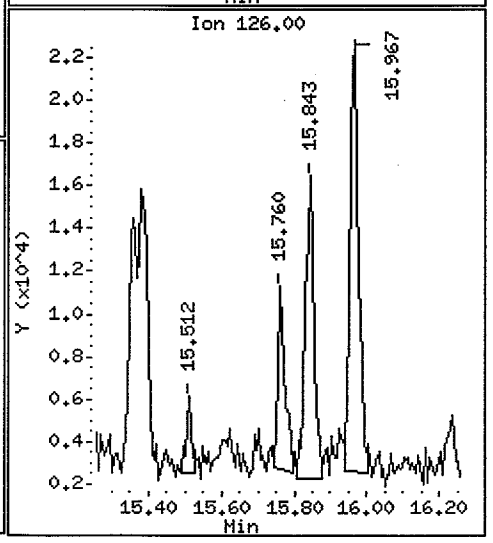












Data File: /chem3/nt1.i/20060831.b/jt82e.d

Date : 31-AUG-2006 20:13

Client ID: T4-S3-02-K-DUP

Instrument: nt1.i

Sample Info: JT82E

Volume Injected (uL): 1.0

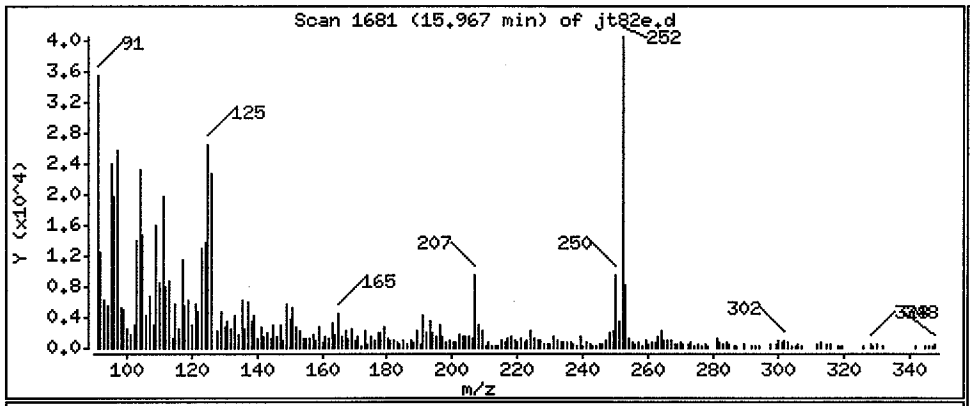
Operator: VTS

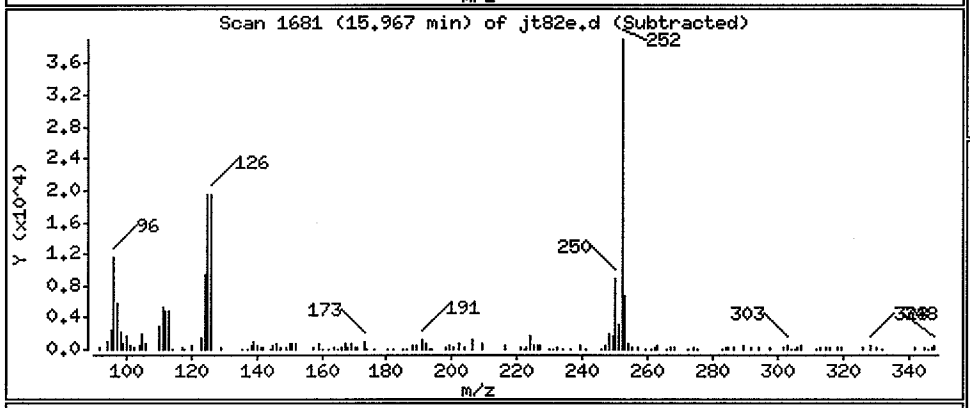
Column phase: ZB-5

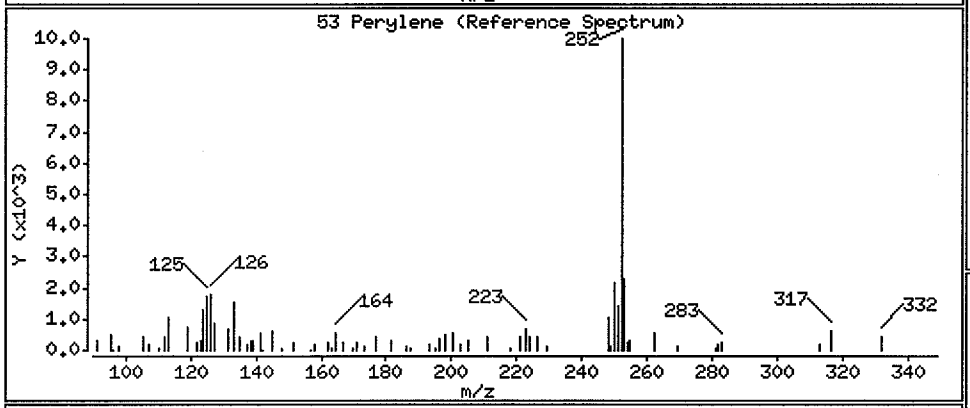
Column diameter: 0.25

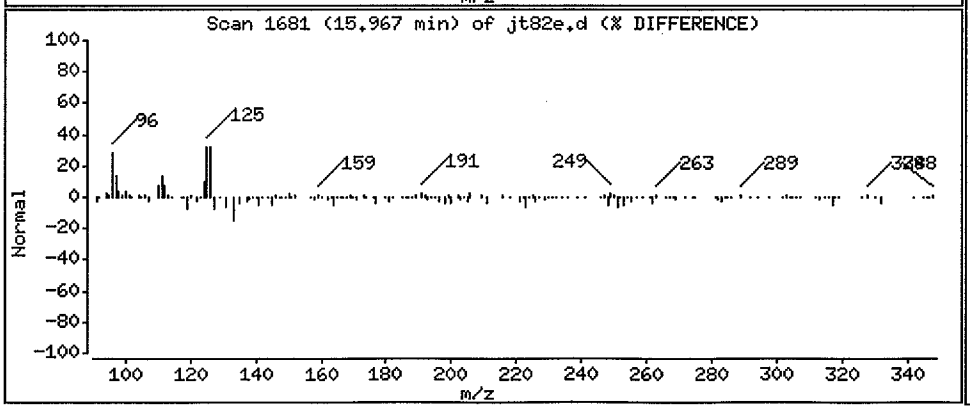
53 Perylene

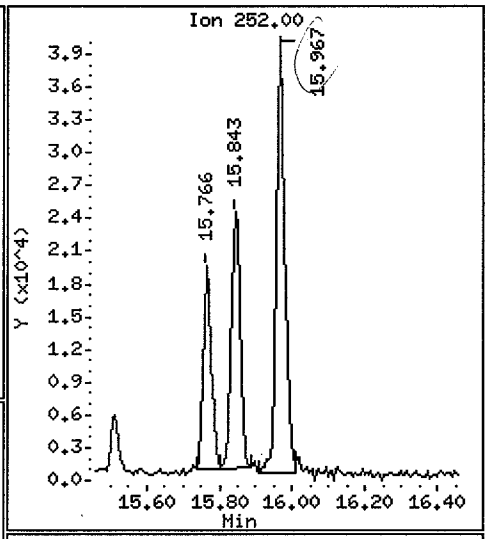
Concentration: 45.69 ug/kg

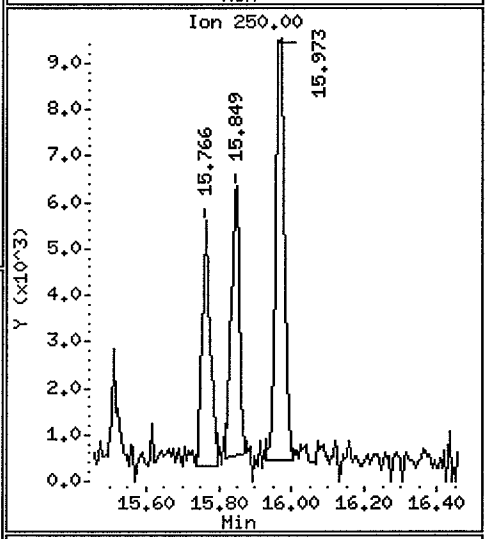


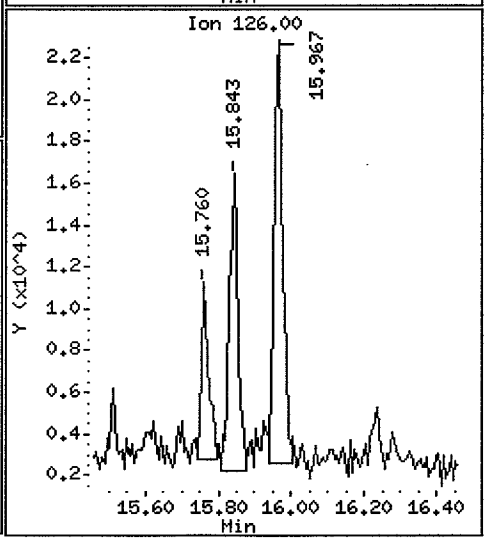












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-H**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JT82I
LIMS ID: 06-15223
Matrix: Sediment
Data Release Authorized:
Reported: 09/04/06

QC Report No: JT82-Anchor Environmental
Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/25/06
Date Analyzed: 08/31/06 21:27
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 1.36 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 32.0%
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**37**	**55**
91-57-6	**2-Methylnaphthalene**	**37**	**37**
90-12-0	1-Methylnaphthalene	37	< 37 U
208-96-8	Acenaphthylene	37	< 37 U
83-32-9	**Acenaphthene**	**37**	**96**
86-73-7	**Fluorene**	**37**	**59**
85-01-8	**Phenanthrene**	**37**	**560**
120-12-7	**Anthracene**	**37**	**110**
206-44-0	**Fluoranthene**	**37**	**930**
129-00-0	**Pyrene**	**37**	**1,200**
56-55-3	**Benzo(a)anthracene**	**37**	**460**
218-01-9	**Chrysene**	**37**	**650**
205-99-2	**Benzo(b)fluoranthene**	**37**	**590**
207-08-9	**Benzo(k)fluoranthene**	**37**	**610**
50-32-8	**Benzo(a)pyrene**	**37**	**550**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**37**	**180**
53-70-3	**Dibenz(a,h)anthracene**	**37**	**77**
191-24-2	**Benzo(g,h,i)perylene**	**37**	**210**
198-55-0	**Perylene**	**37**	**260**
92-52-4	Biphenyl	37	< 37 U
581-42-0	**2,6-Dimethylnaphthalene**	**37**	**48**
832-69-9	1-Methylphenanthrene	81	< 81 Y
192-97-2	**Benzo(e)pyrene**	**37**	**380**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**37**	**92**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	75.7%
d14-Dibenzo(a,h)anthracen	50.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060831.b/jt82i.d
Lab Smp Id: JT82I Client Smp ID: T4-S3-02-H
Inj Date : 31-AUG-2006 21:27
Operator : VTS Inst ID: nt1.i
Smp Info : JT82I
Misc Info : 06-15223
Comment : 1ul Injection
Method : /chem3/nt1.i/20060831.b/simpna.m
Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	2.00000	Weight of sample extracted (g)
M	32.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.829	6.823	(1.000)	402666	2.00000	
	2 Naphthalene	128	6.853	6.847	(1.003)	30036	0.14955	54.98
$	3 2-Methylnaphthalene-d10	152	7.585	7.580	(1.111)	235371	2.26943	834.3 J
	4 2-Methylnaphthalene	142	7.621	7.621	(1.116)	11752	0.09880	36.32
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.708	8.703	(0.980)	12023	0.07184	26.41 J
*	8 Acenaphthene-d10	164	8.886	8.886	(1.000)	201856	2.00000	
	9 Acenaphthene	153	8.927	8.921	(1.005)	25415	0.25642	94.27
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.536	9.536	(1.073)	18006	0.15843	58.25
*	15 Phenanthrene-d10	188	10.700	10.694	(1.000)	260594	2.00000	
	16 Phenanthrene	178	10.724	10.724	(1.002)	204121	1.52604	561.0
	17 Anthracene	178	10.783	10.777	(1.008)	39328	0.29422	108.2
	19 Fluoranthene	202	12.225	12.213	(1.143)	343308	2.51636	925.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.509	12.503	(0.893)	386011	3.18571	1171
	22 Benzo(a)anthracene	228	13.986	13.980	(0.999)	142633	1.25521	461.5
*	23 Chrysene-d12	240	14.004	14.004	(1.000)	188700	2.00000	
	24 Chrysene	228	14.039	14.034	(1.003)	186512	1.77953	654.2
	28 Benzo(b)fluoranthene	252	15.363	15.352	(0.964)	122271	1.61368	593.3
	29 Benzo(k)fluoranthene	252	15.387	15.387	(0.966)	134349	1.66316	611.5(M)
	30 Benzo(a)pyrene	252	15.848	15.836	(0.995)	109901	1.48853	547.3
*	31 Perylene-d12	264	15.931	15.925	(1.000)	134257	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.851	17.834	(1.121)	40526	0.47730	175.5
$	32 Dibenz(a,h)anthrancene-d14	292	17.769	17.763	(1.115)	77032	1.49927	551.2
	34 Dibenz(a,h)anthracene	278	17.840	17.828	(1.120)	14319	0.20644	75.90
	35 Benzo(g,h,i)perylene	276	18.413	18.401	(1.156)	39617	0.56131	206.4
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.354	8.348	(0.940)	12442	0.12666	46.57
	50 2,3,5-Trimethylnaphthalene	170	9.370	9.371	(1.055)	20497	0.25476	93.66
	51 1-Methylphenanthrene	192	11.504	11.492	(0.821)	17184	0.22248	81.79(M)
	52 Benzo(e)pyrene	252	15.765	15.759	(0.990)	83896	1.02655	377.4
	53 Perylene	252	15.972	15.960	(1.003)	54633	0.71197	261.8

QC Flag Legend

M - Compound response manually integrated.

VTS
9.1.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jt82i.d
Lab Smp Id: JT82I
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15223

Calibration Date: 31-AUG-2006
Calibration Time: 11:36
Client Smp ID: T4-S3-02-H
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	330618	165309	661236	402666	21.79
8 Acenaphthene-d10	168464	84232	336928	201856	19.82
15 Phenanthrene-d10	226331	113166	452662	260594	15.14
23 Chrysene-d12	170894	85447	341788	188700	10.42
31 Perylene-d12	178548	89274	357096	134257	-24.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.08
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.00
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.05
23 Chrysene-d12	14.00	13.50	14.50	14.00	0.00
31 Perylene-d12	15.92	15.42	16.42	15.93	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82I
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15223

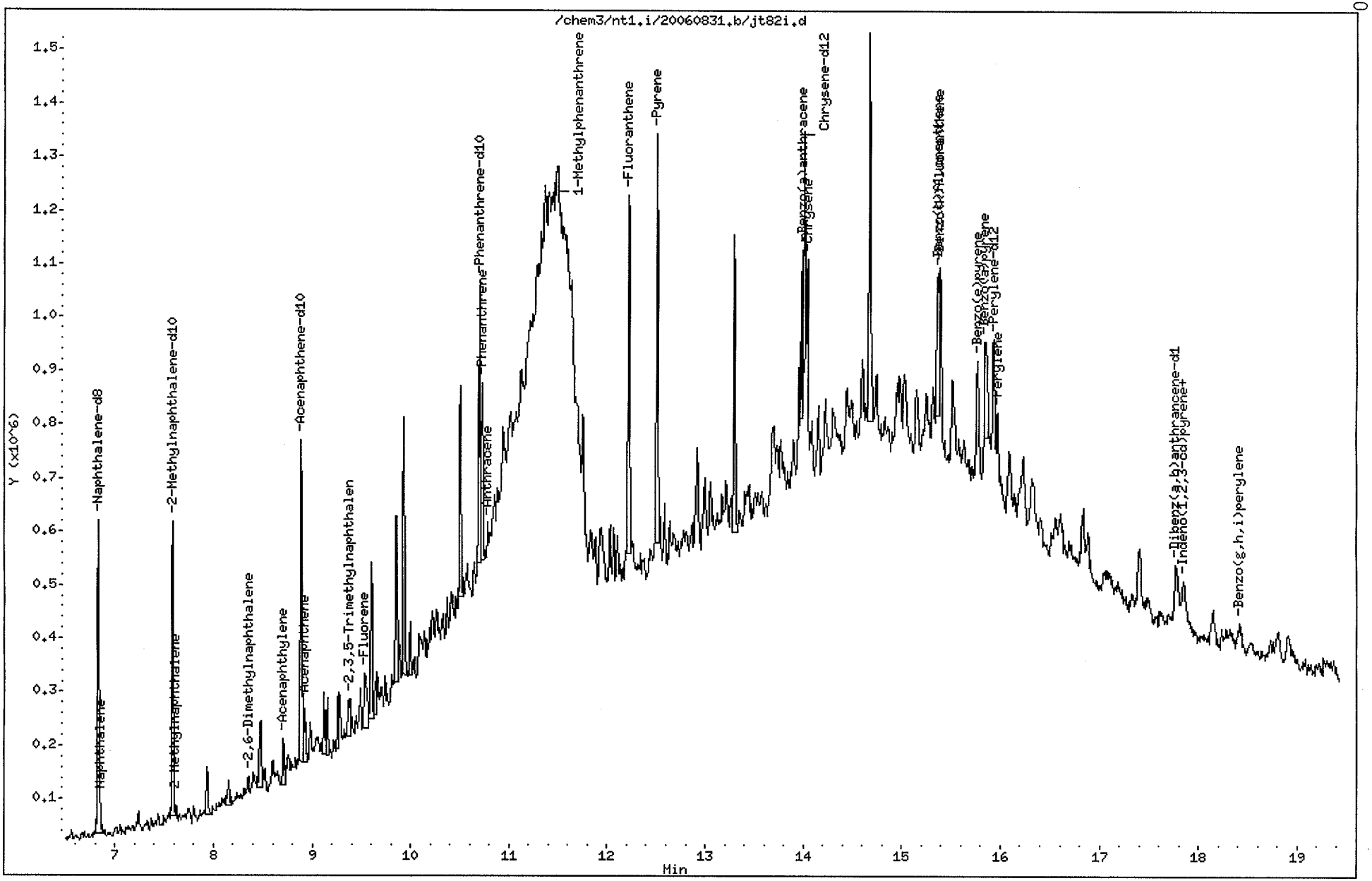
Client SDG: JT82
Fraction: SV
Client Smp ID: T4-S3-02-H
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	1103	834.3	75.65	32-97
$ 32 Dibenz(a,h)anthran	1103	551.2	49.98	21-105

Data File: /chem3/nt1.i/20060831.b/jt82i.d
Date : 31-AUG-2006 21:27
Client ID: T4-S3-02-H
Sample Info: JT82I
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0516



Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

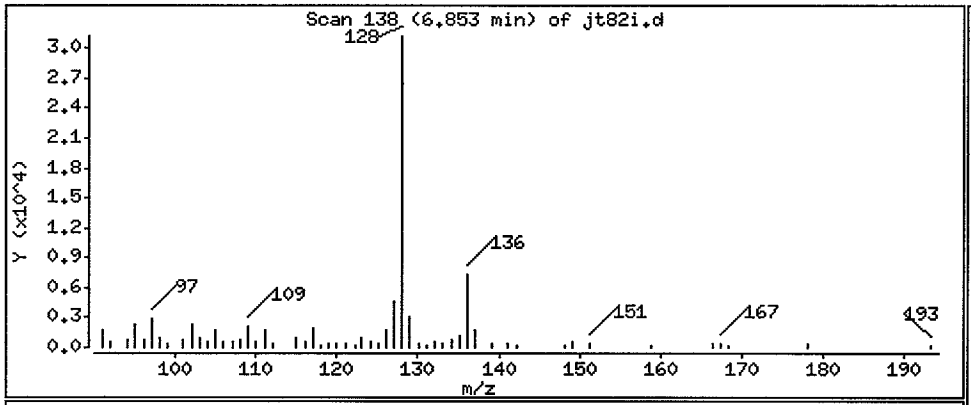
Operator: VTS

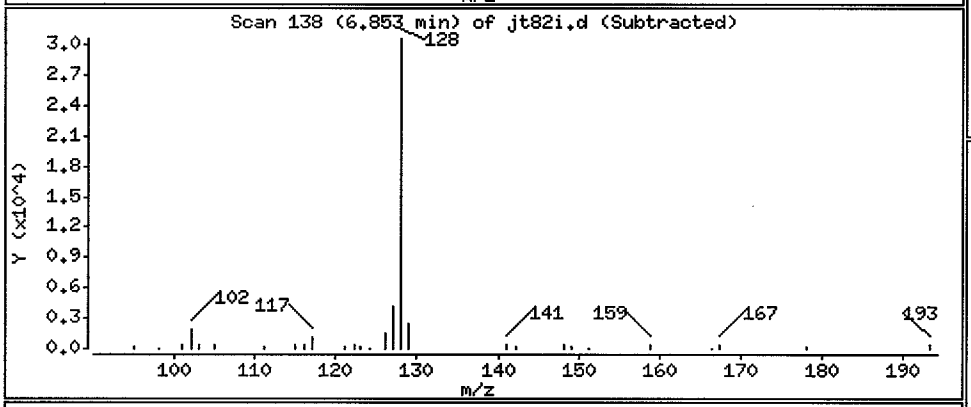
Column phase: ZB-5

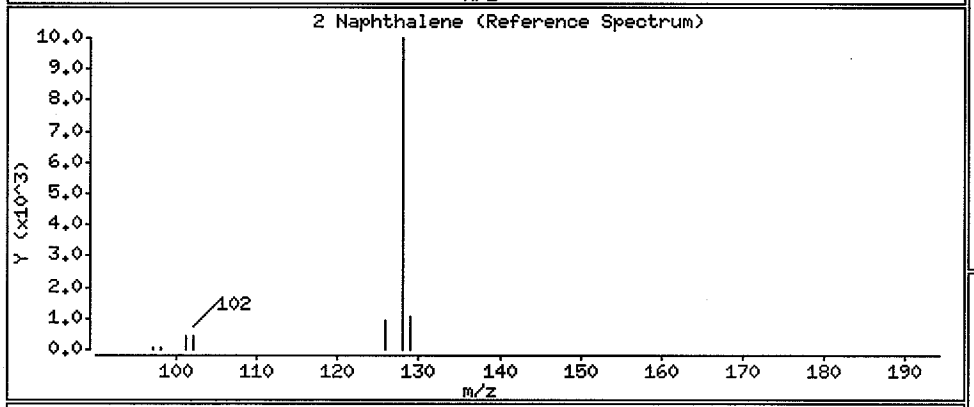
Column diameter: 0.25

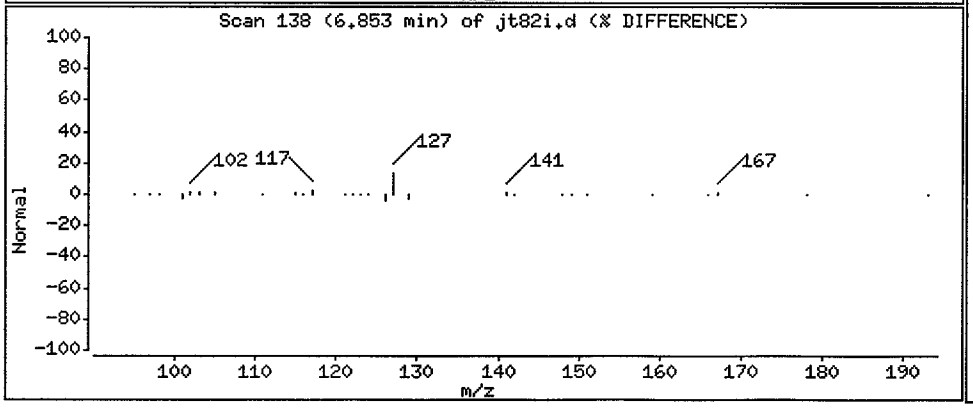
2 Naphthalene

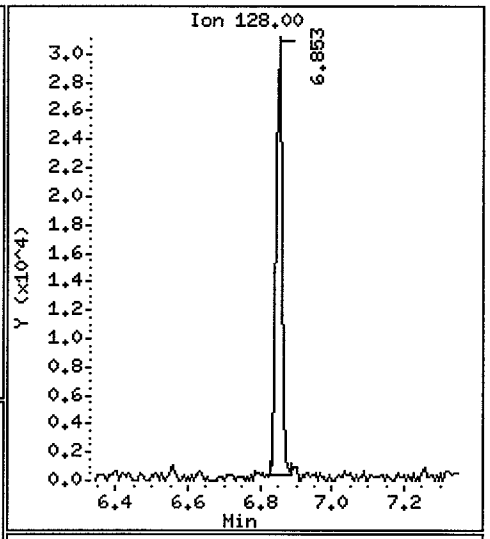
Concentration: 54.98 ug/kg

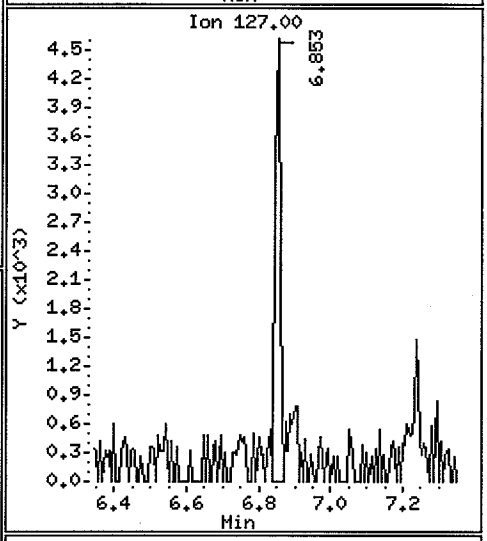


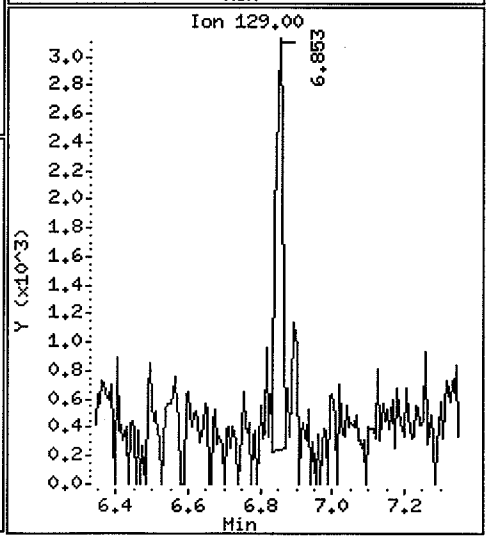












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

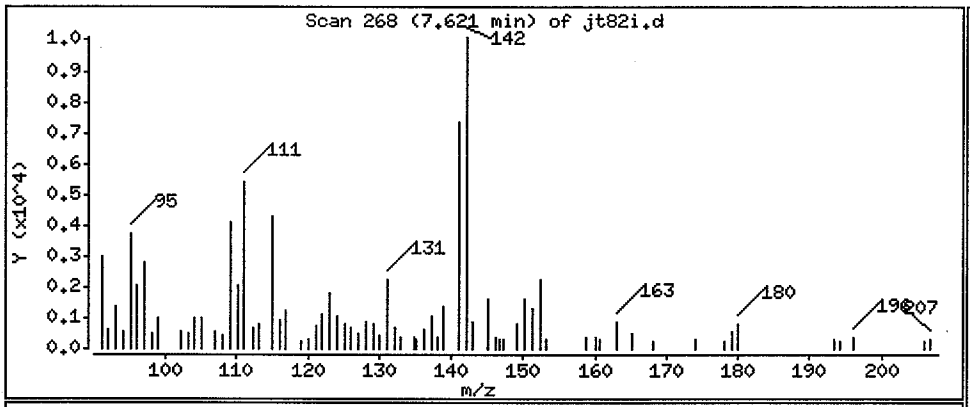
Operator: VTS

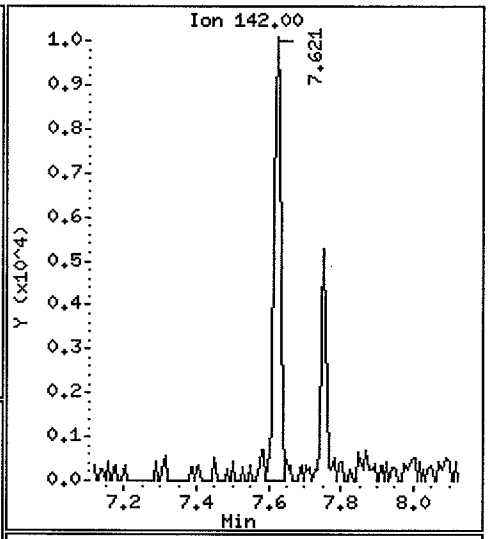
Column phase: ZB-5

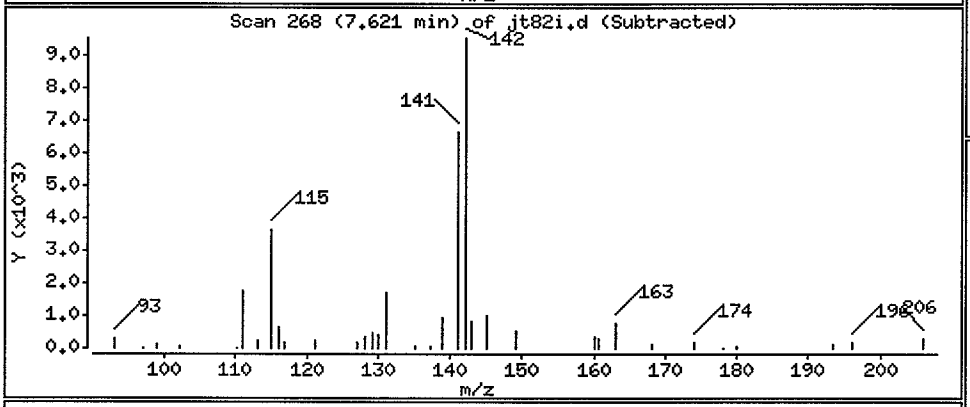
Column diameter: 0.25

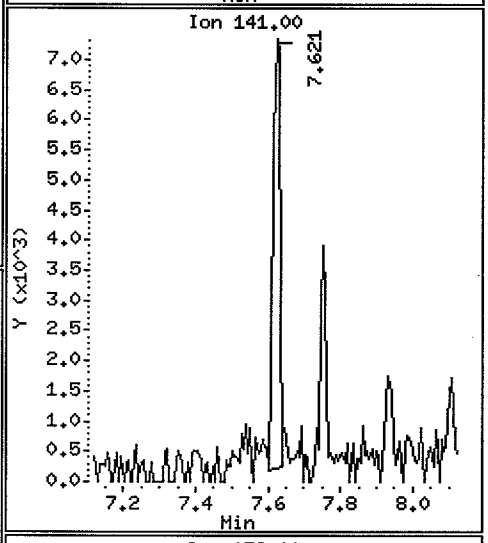
4 2-Methylnaphthalene

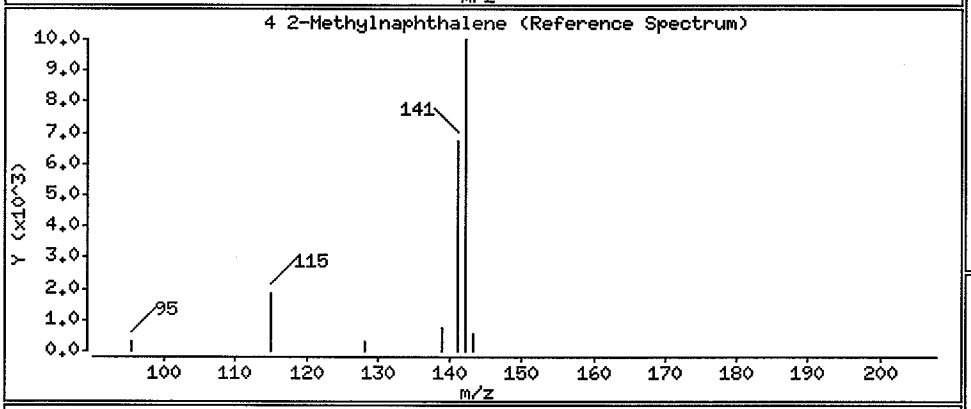
Concentration: 36.32 ug/kg

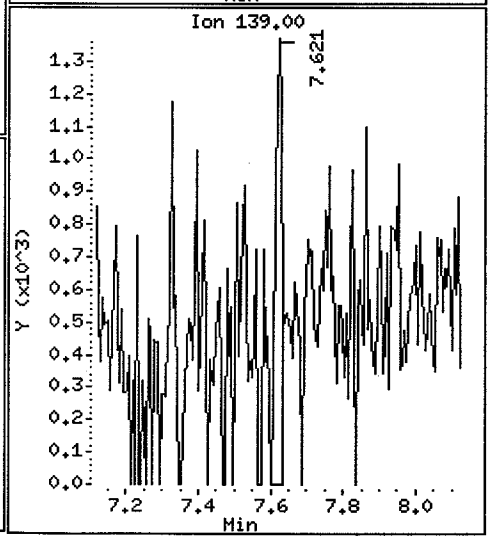


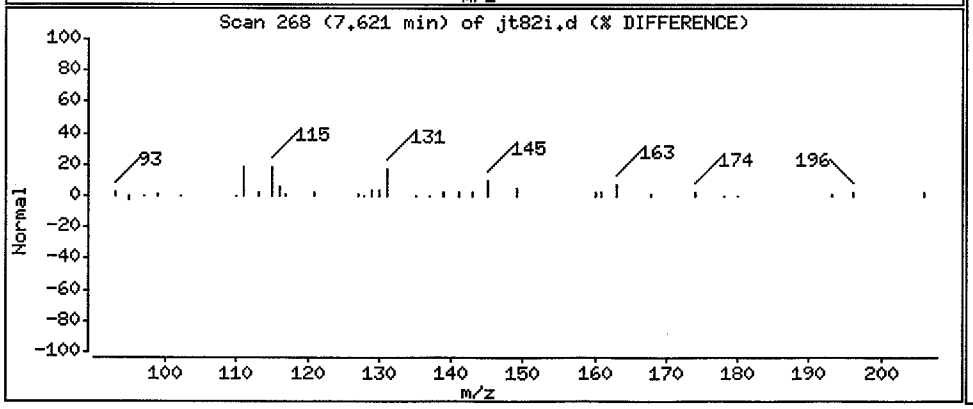












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

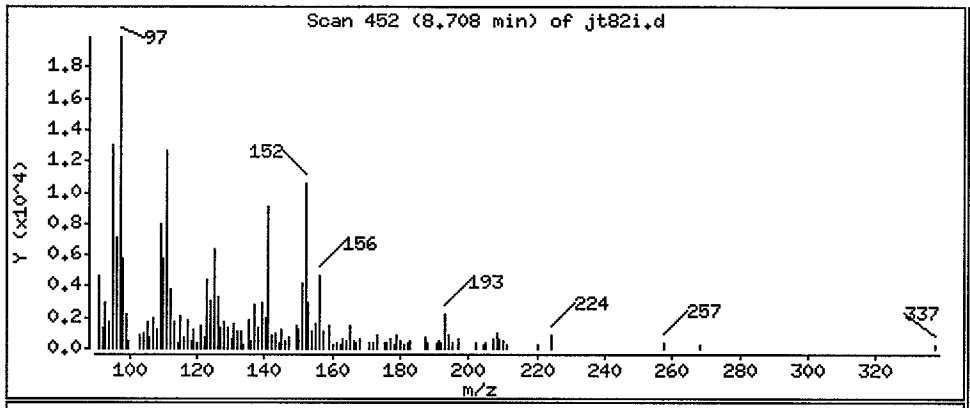
Operator: VTS

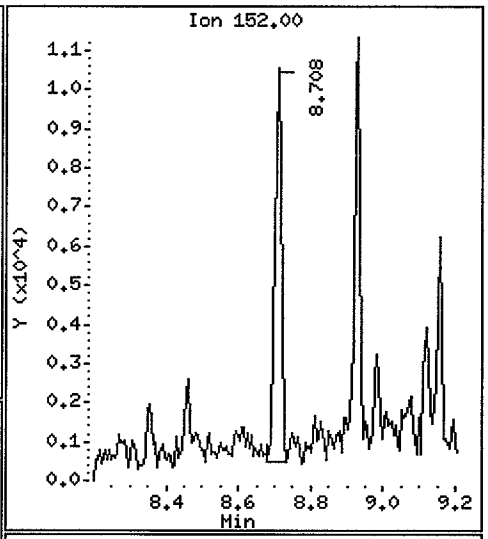
Column phase: ZB-5

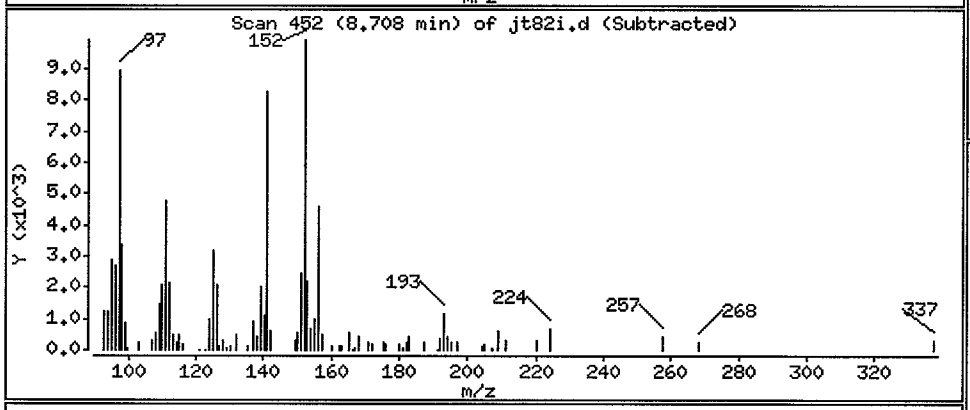
Column diameter: 0.25

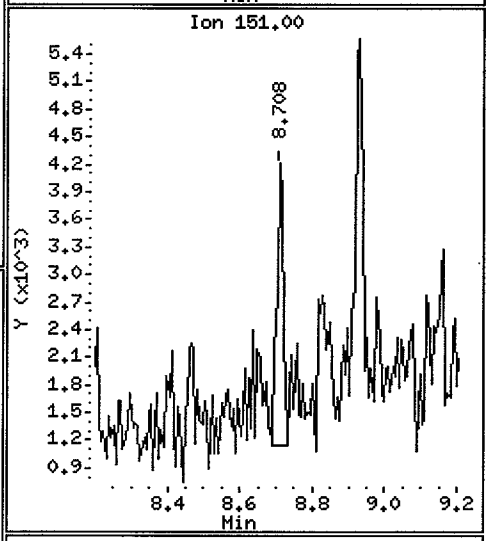
7 Acenaphthylene

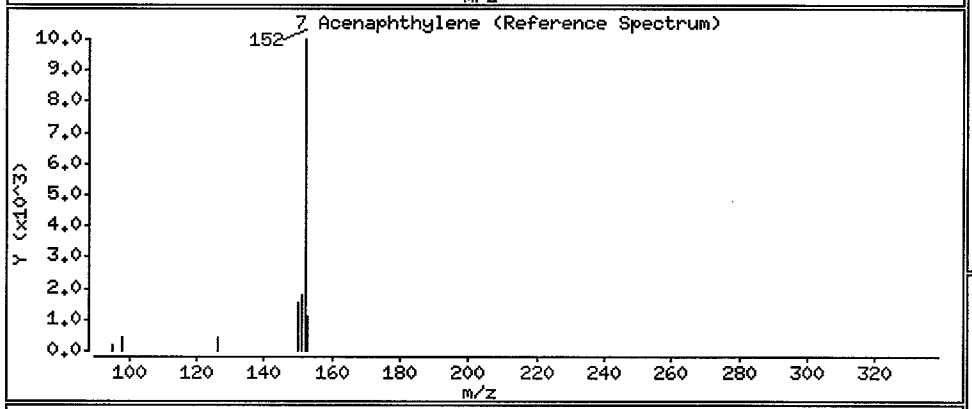
Concentration: 26.41 ug/kg

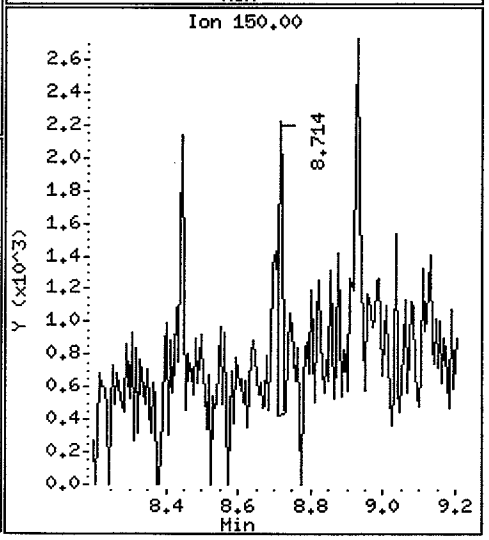


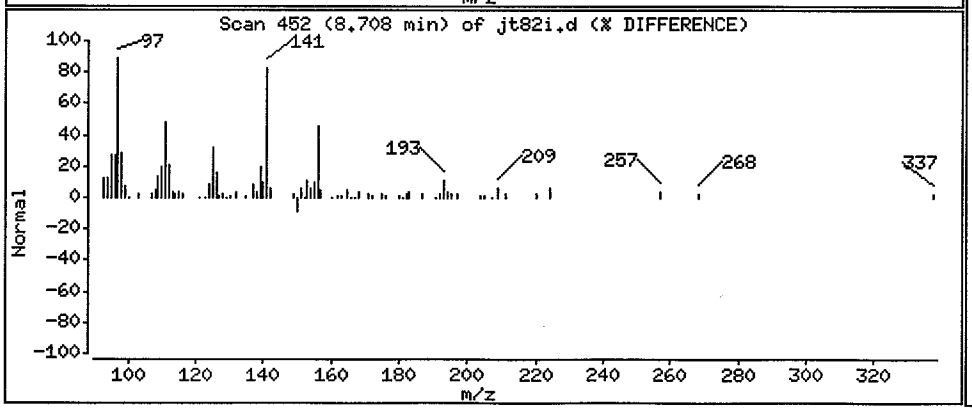












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

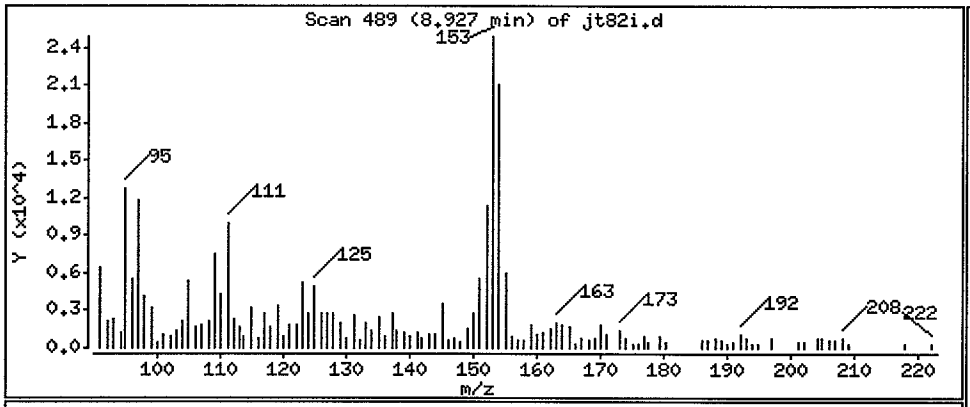
Operator: VTS

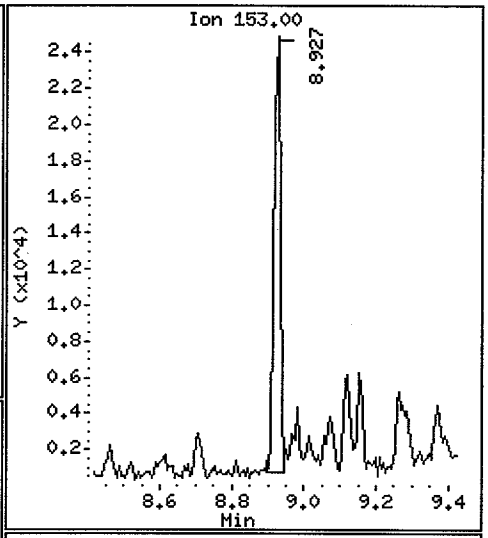
Column phase: ZB-5

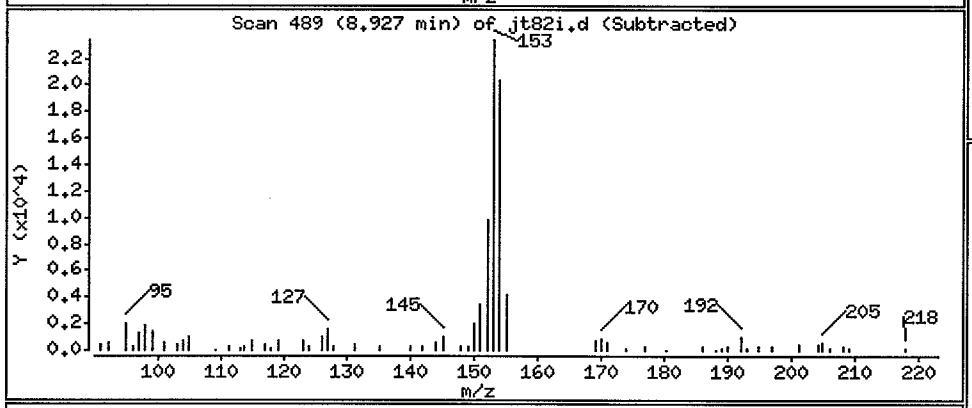
Column diameter: 0.25

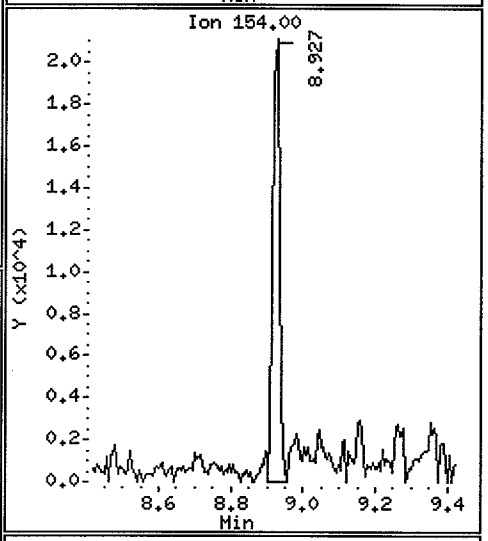
9 Acenaphthene

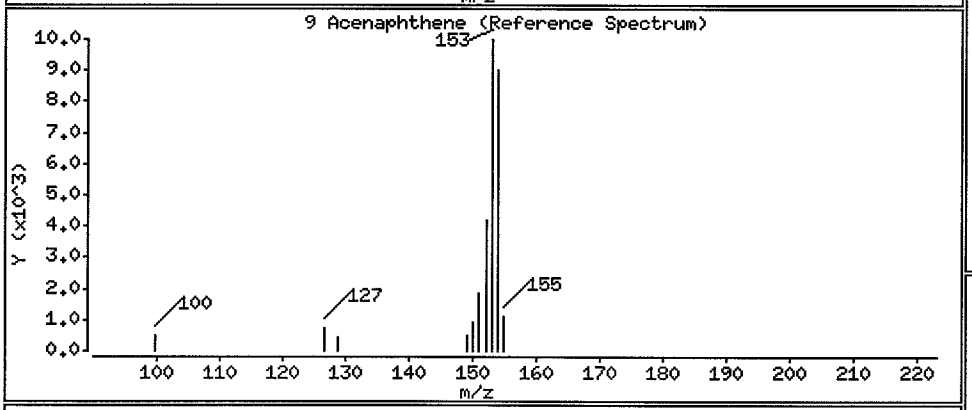
Concentration: 94.27 ug/kg

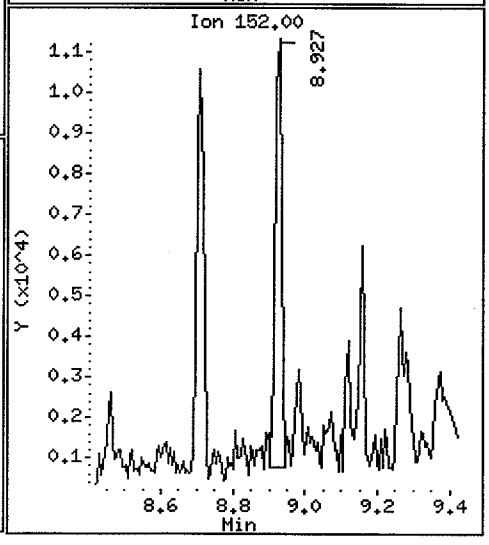


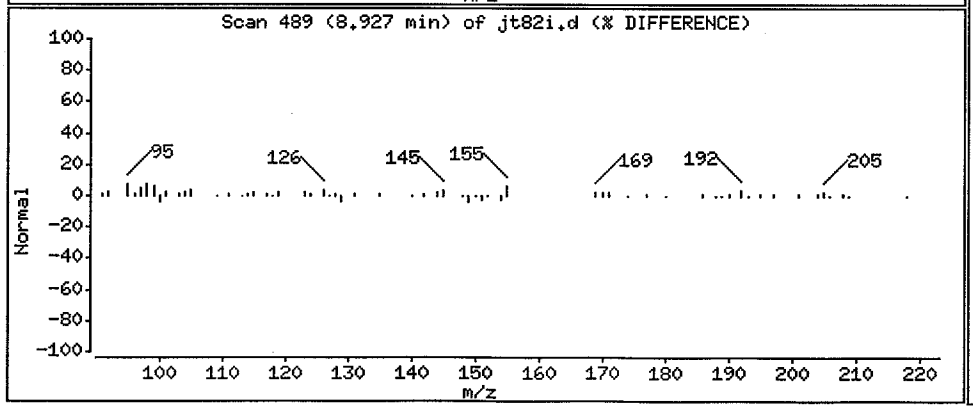












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

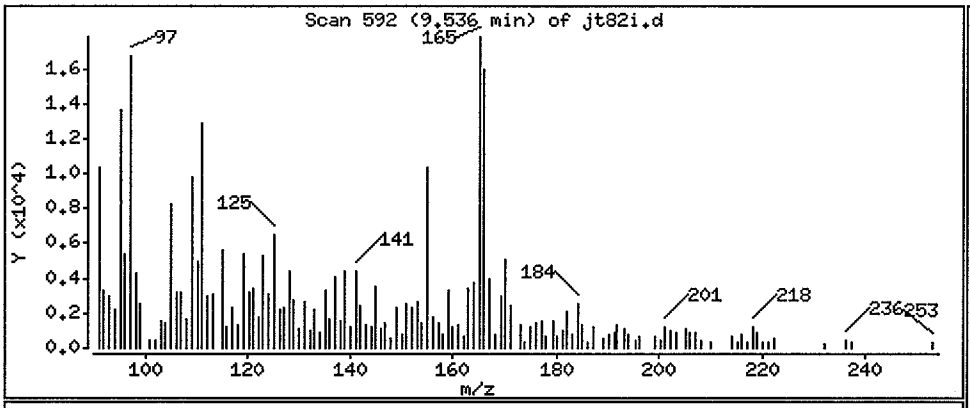
Operator: VTS

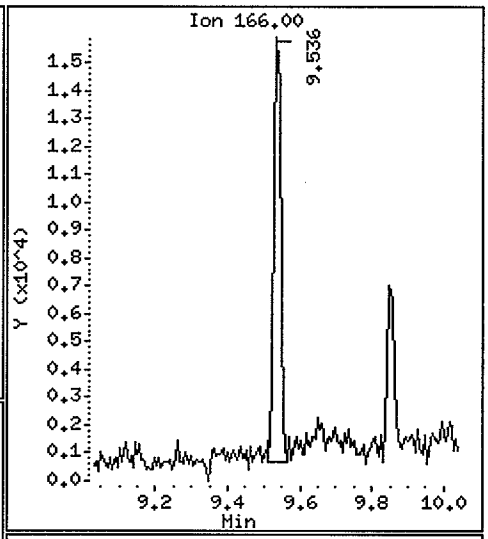
Column phase: ZB-5

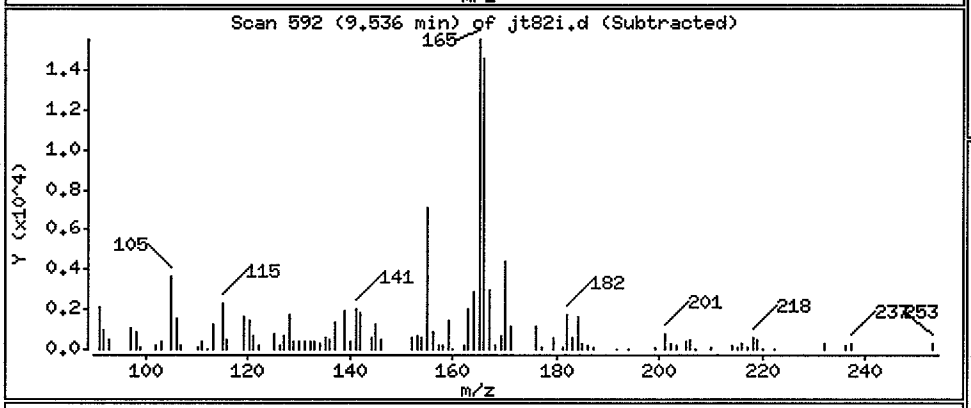
Column diameter: 0.25

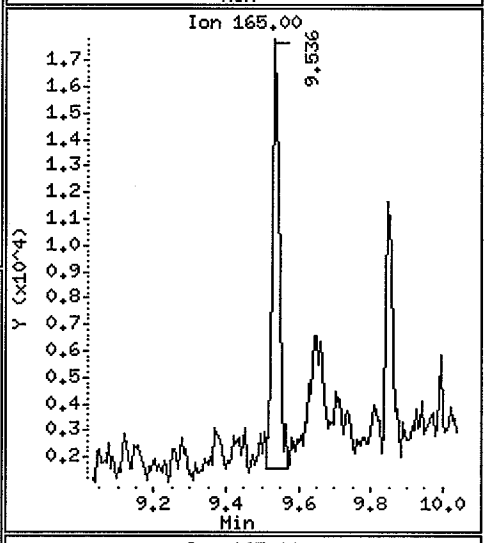
11 Fluorene

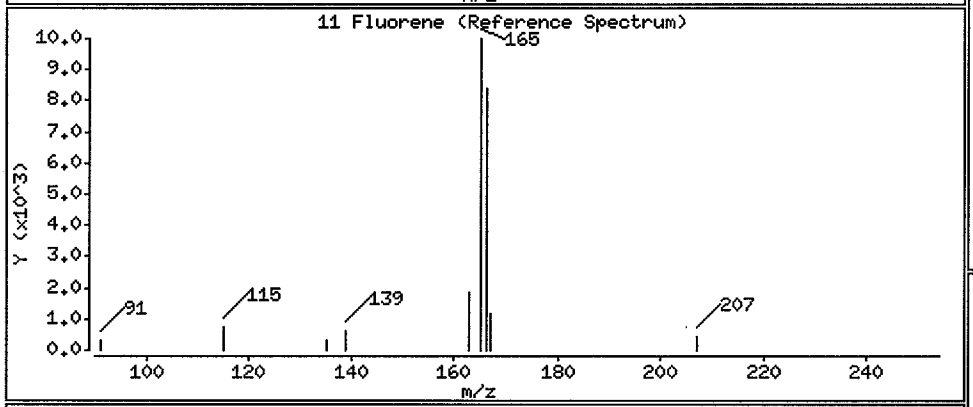
Concentration: 58.25 ug/kg

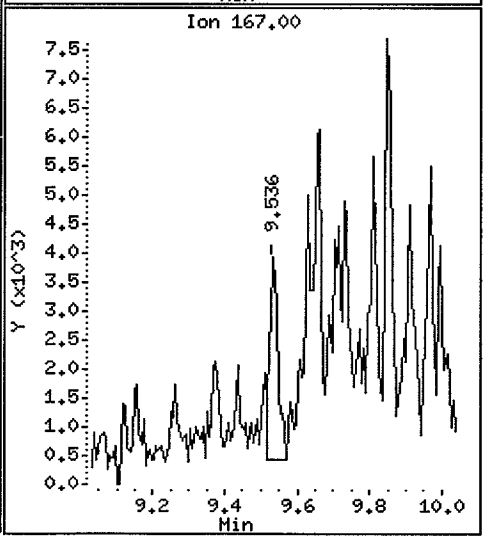


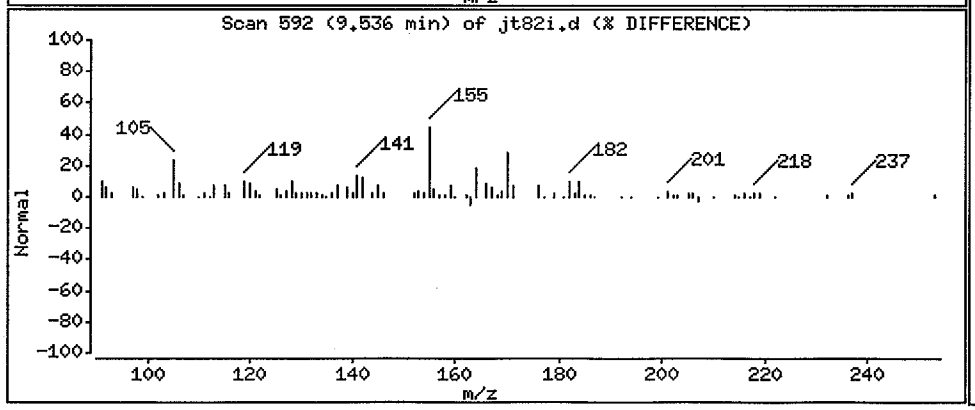












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

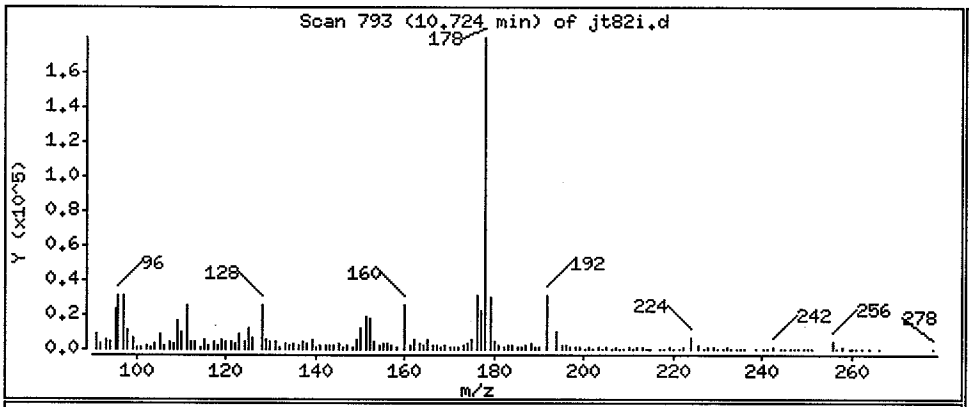
Operator: VTS

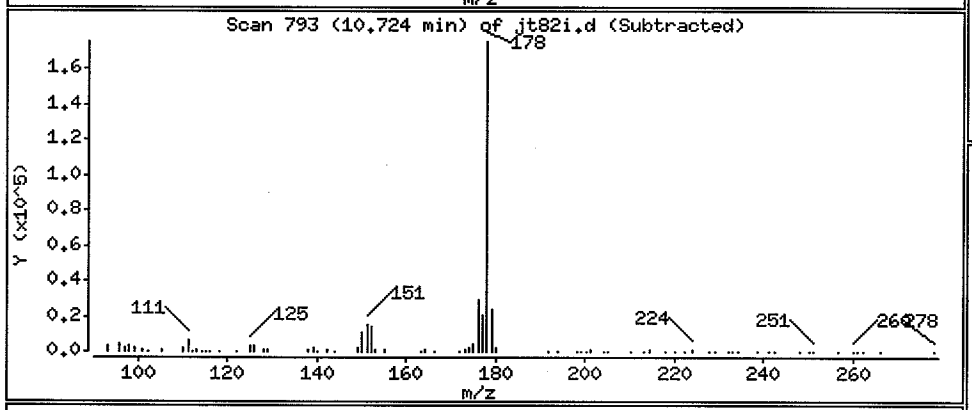
Column phase: ZB-5

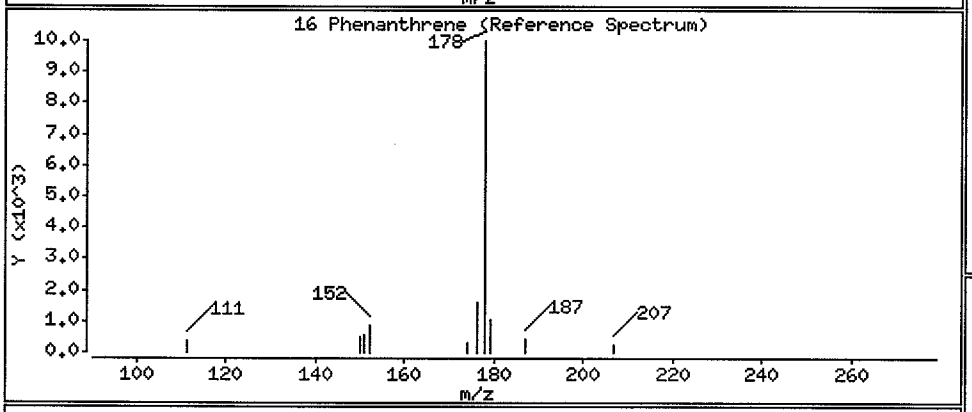
Column diameter: 0.25

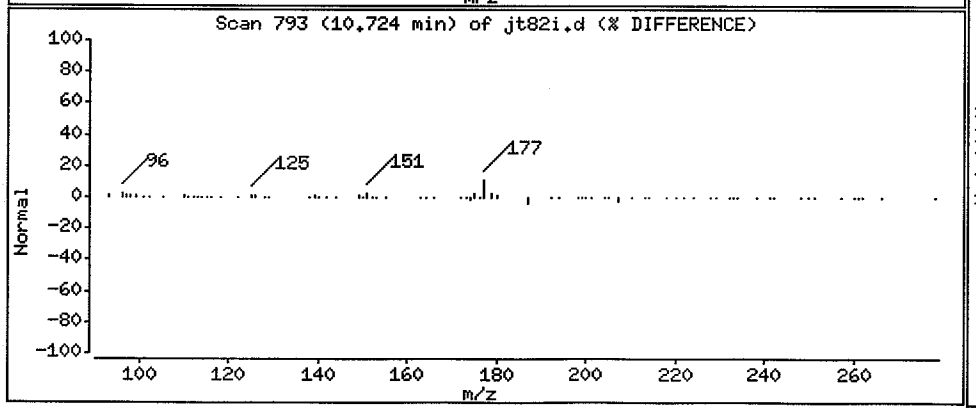
16 Phenanthrene

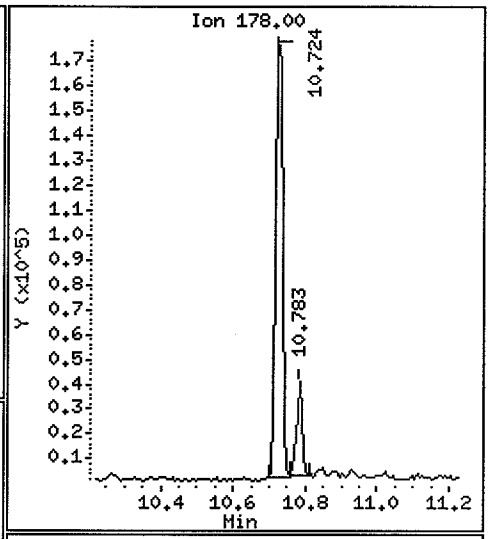
Concentration: 561.0 ug/kg

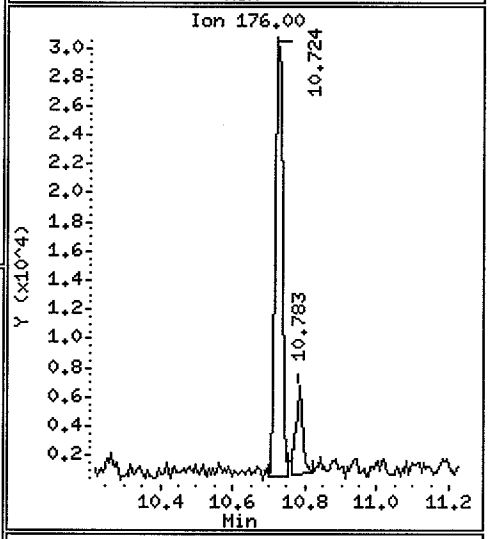


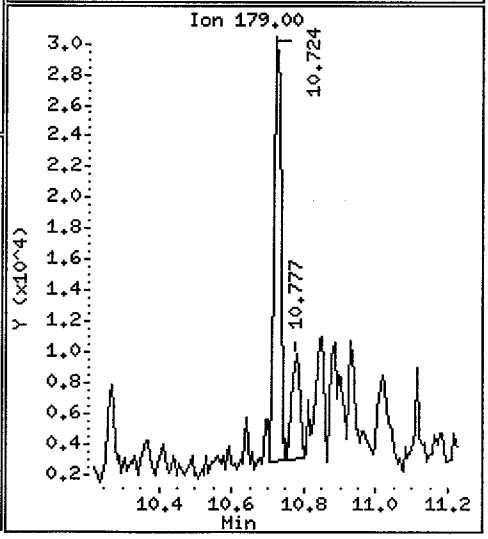












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

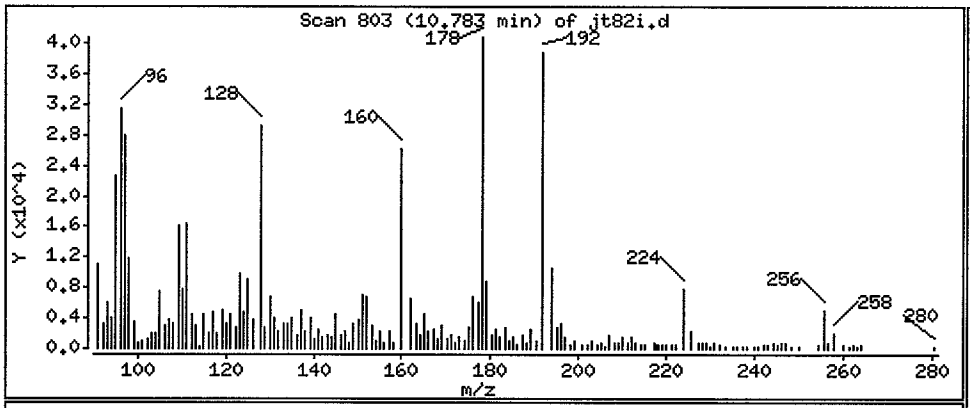
Operator: VTS

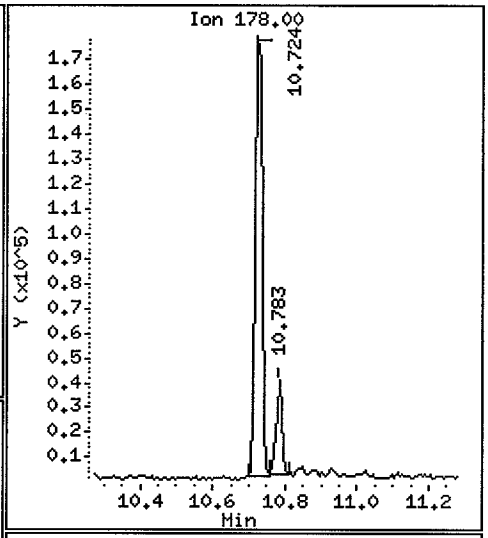
Column phase: ZB-5

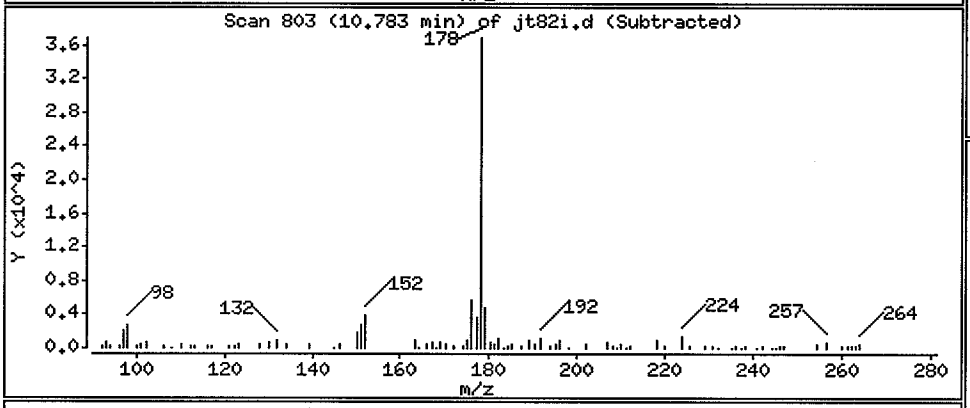
Column diameter: 0.25

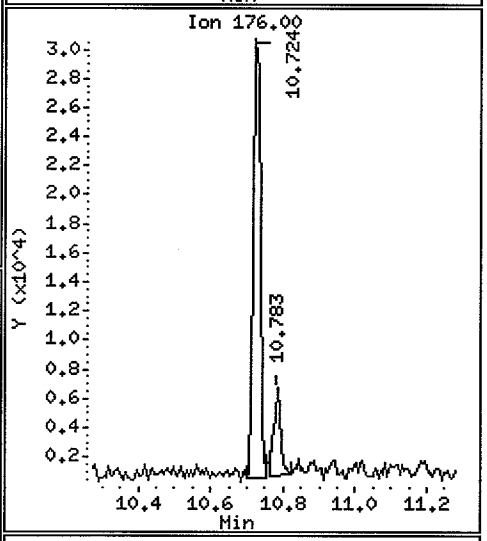
17 Anthracene

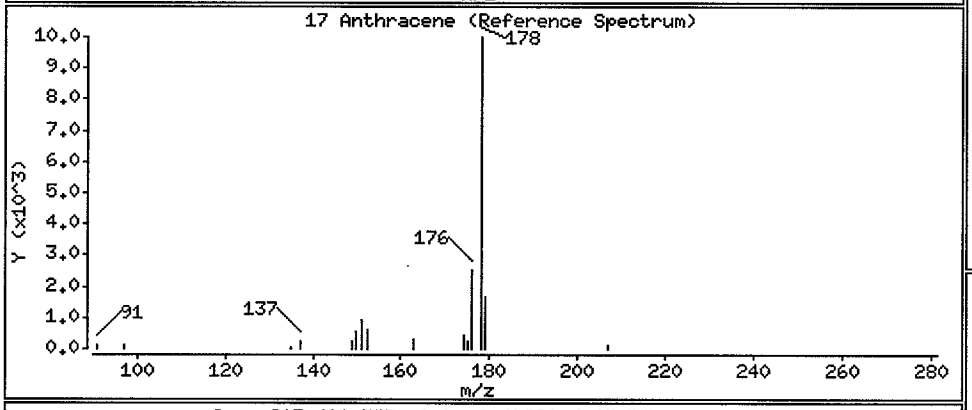
Concentration: 108.2 ug/kg

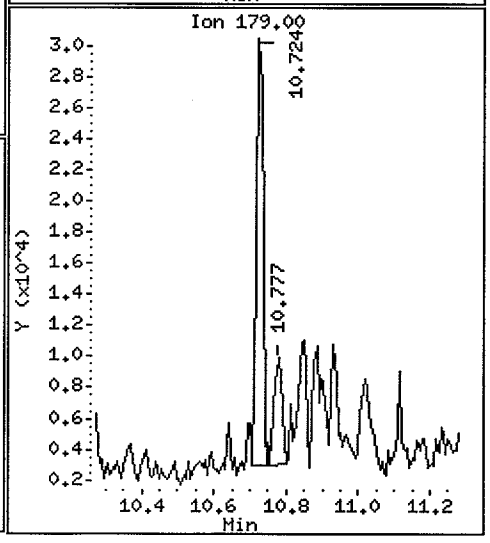


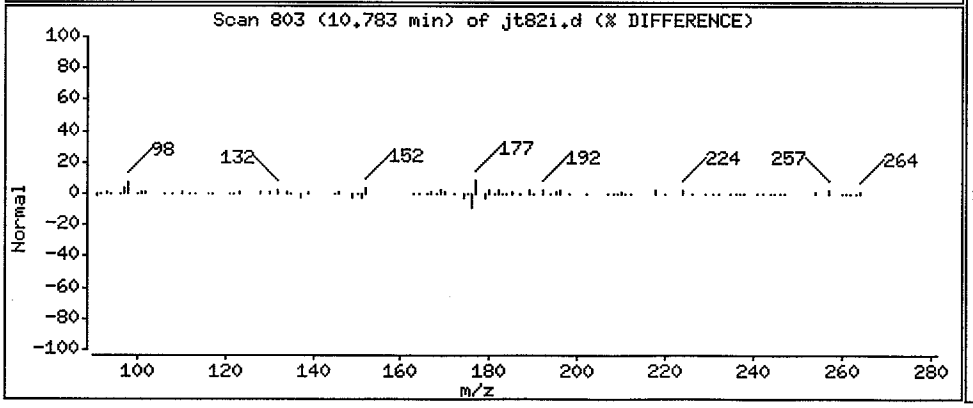












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

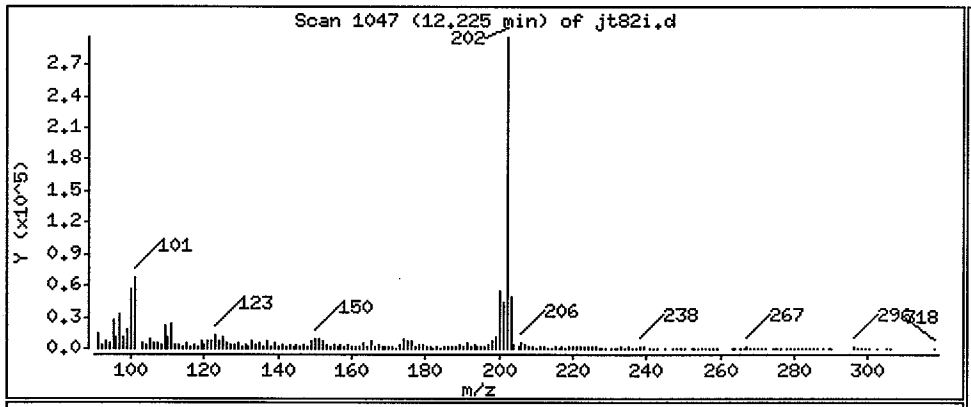
Operator: VTS

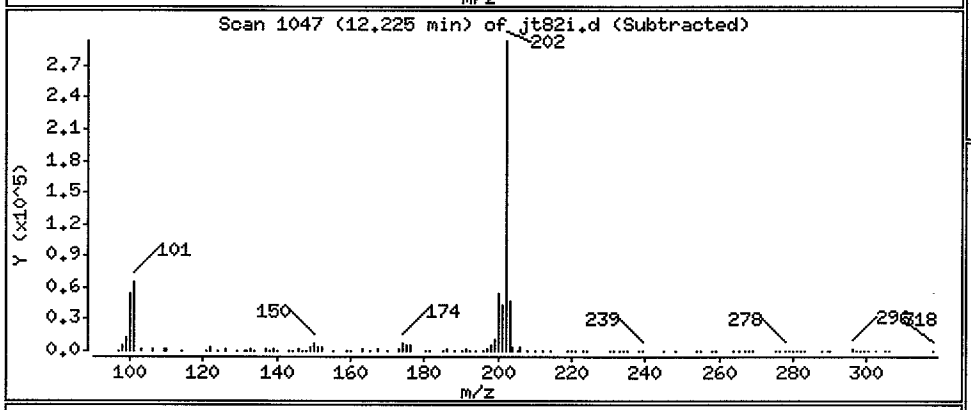
Column phase: ZB-5

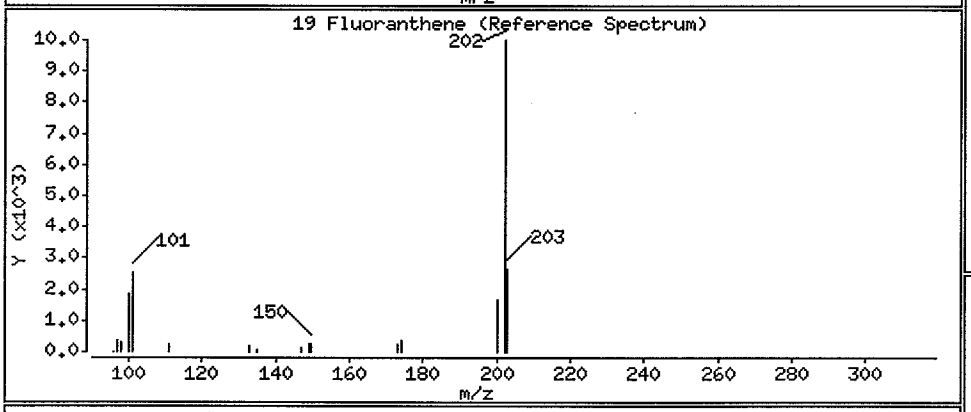
Column diameter: 0.25

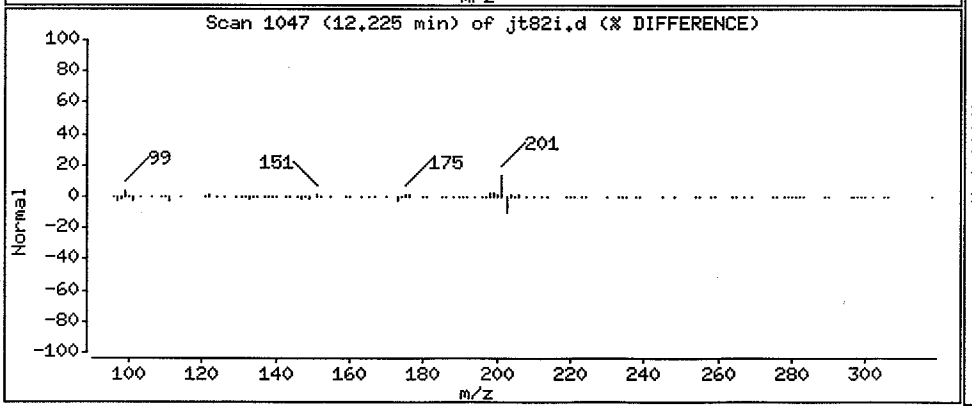
19 Fluoranthene

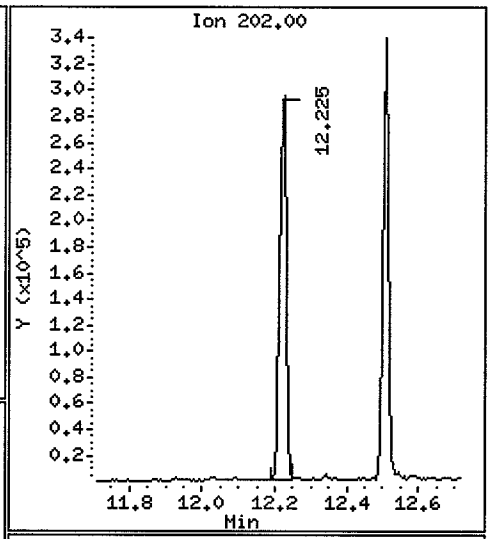
Concentration: 925.1 ug/kg

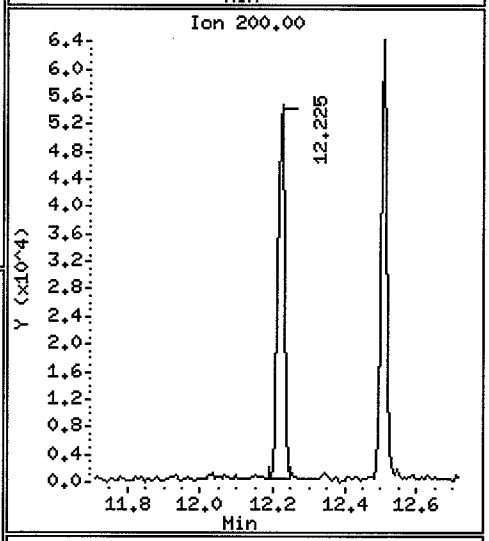


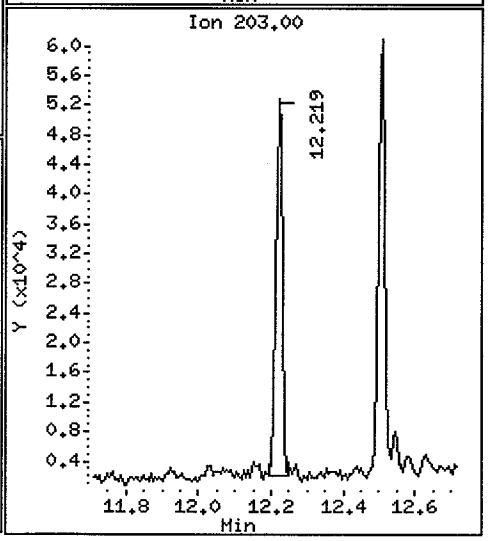












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

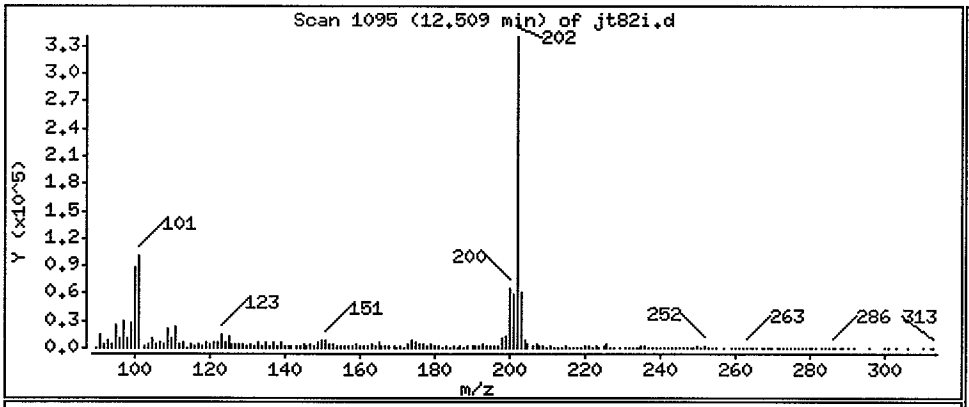
Operator: VTS

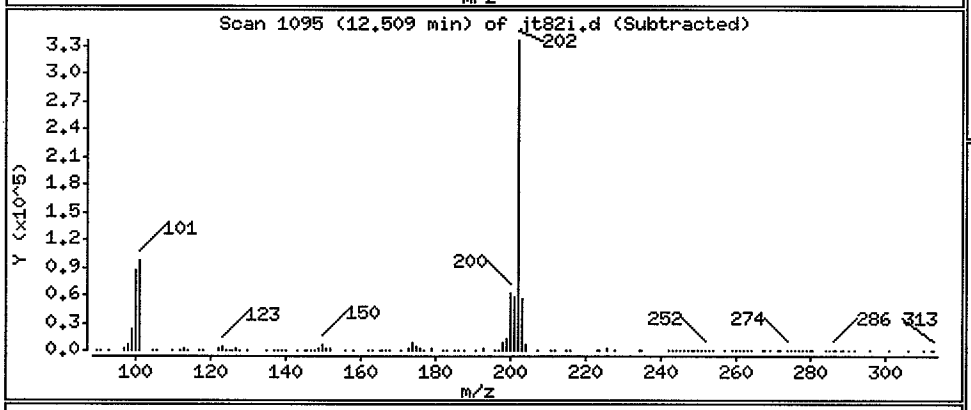
Column phase: ZB-5

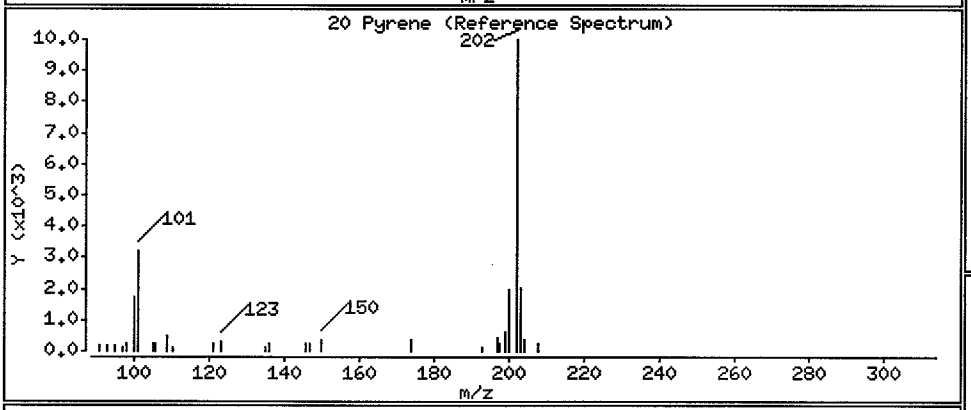
Column diameter: 0.25

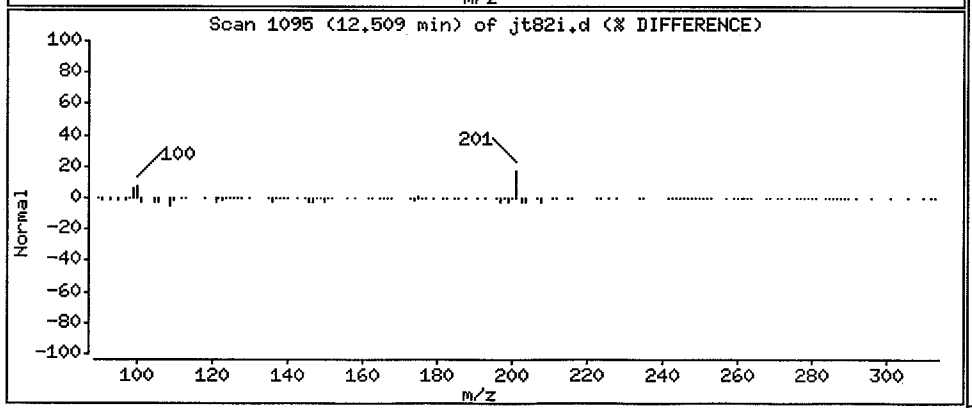
20 Pyrene

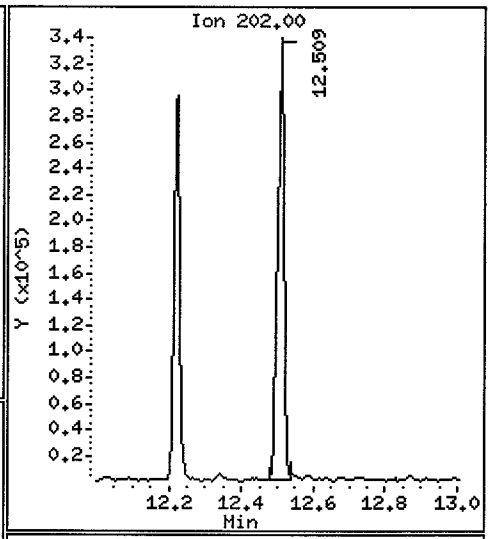
Concentration: 1171 ug/kg

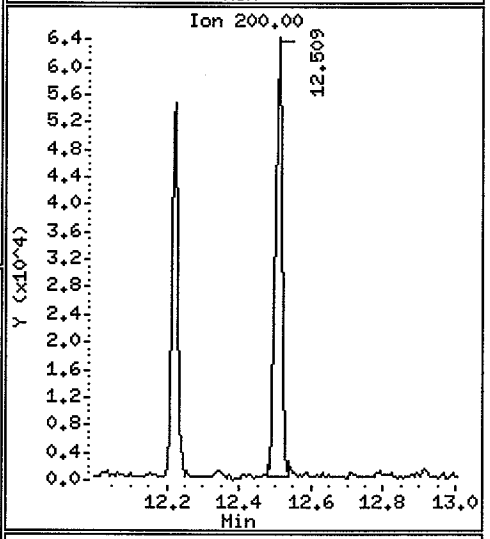


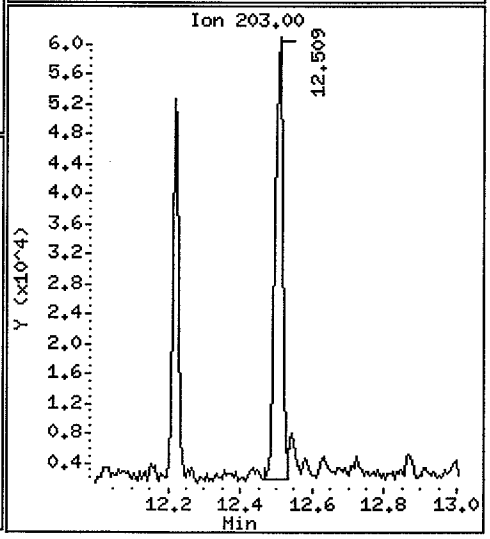












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

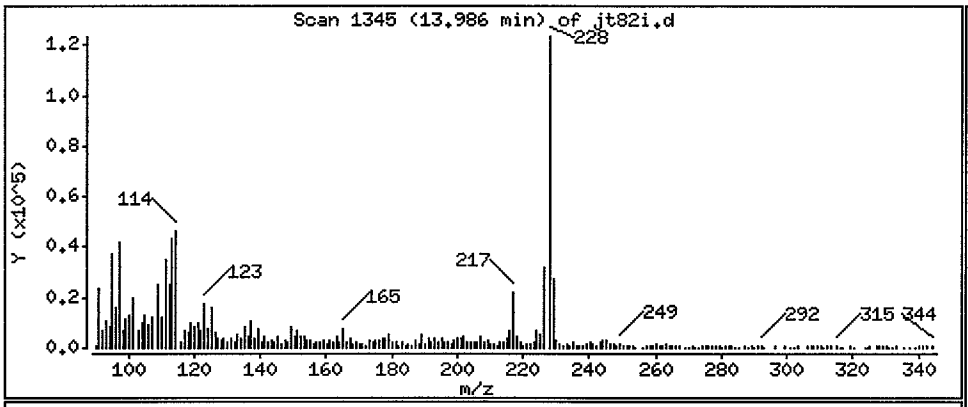
Operator: VTS

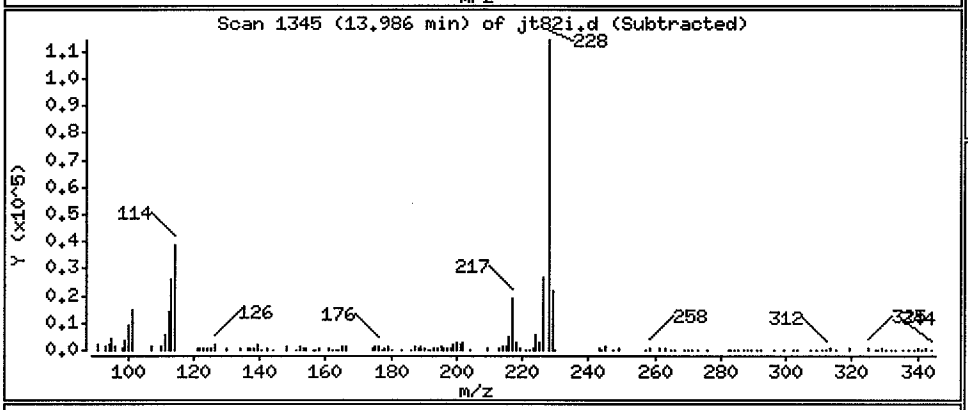
Column phase: ZB-5

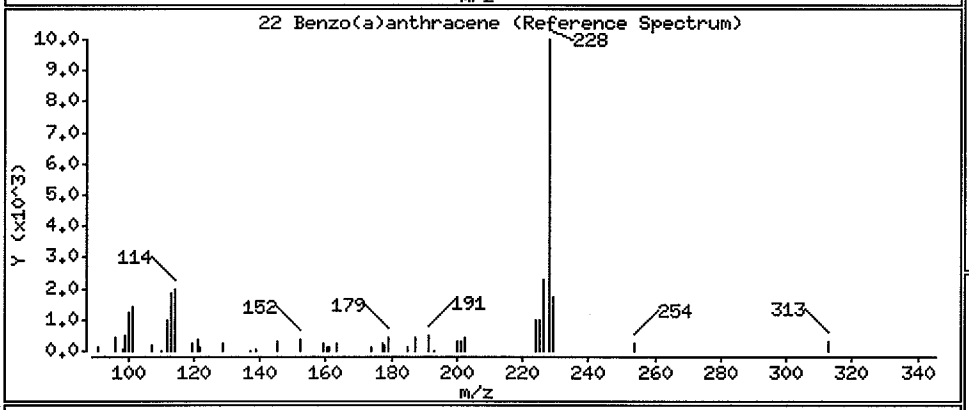
Column diameter: 0.25

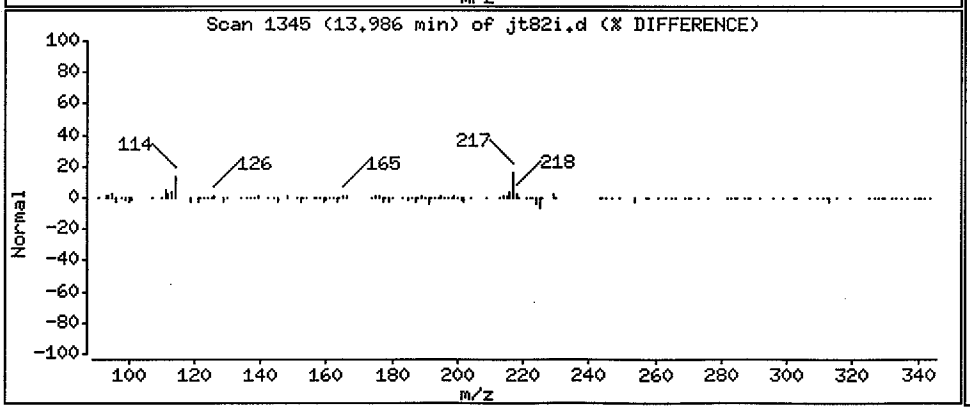
22 Benzo(a)anthracene

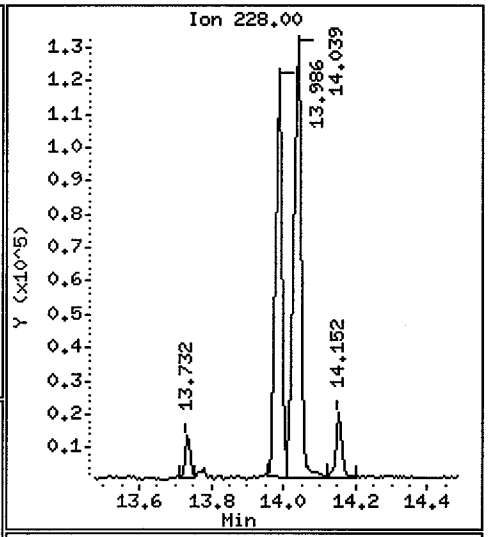
Concentration: 461.5 ug/kg

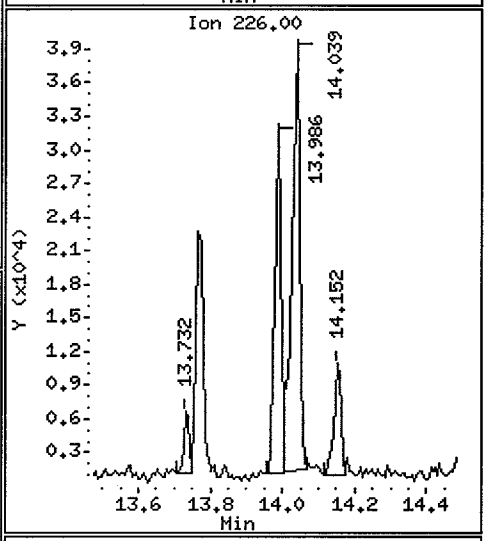


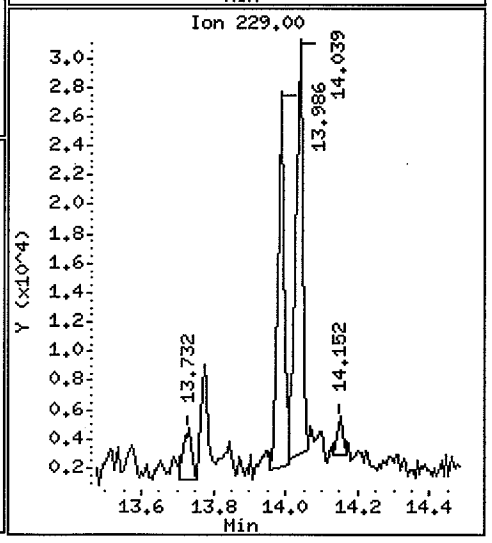












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

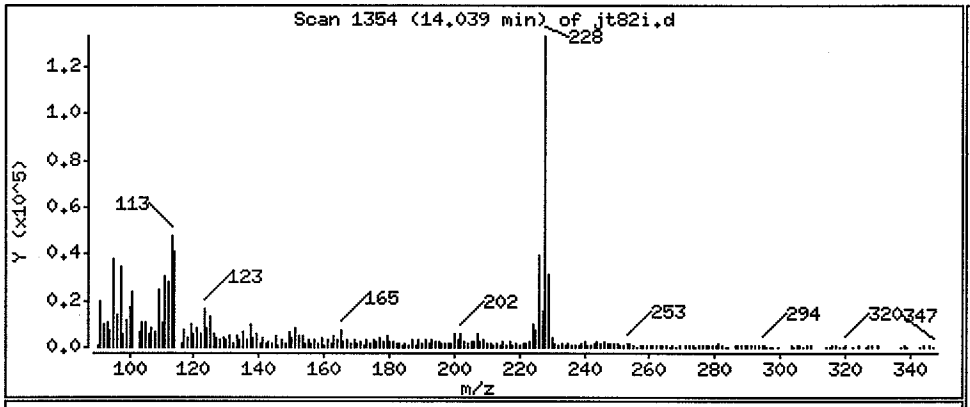
Operator: VTS

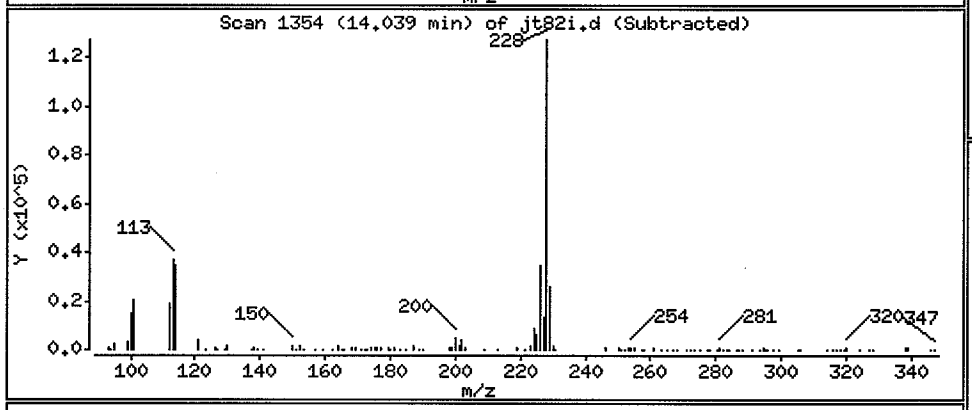
Column phase: ZB-5

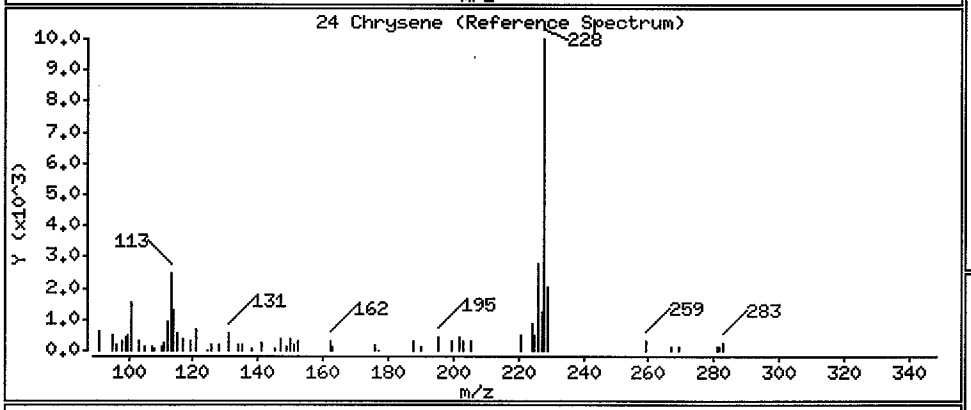
Column diameter: 0.25

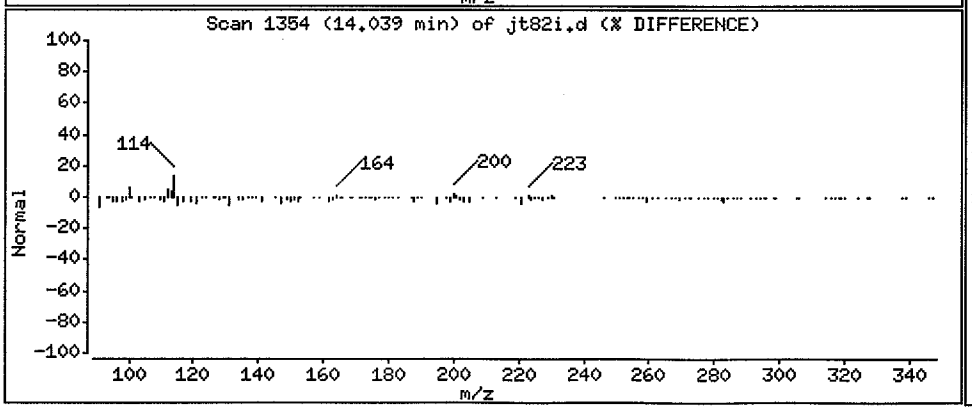
24 Chrysene

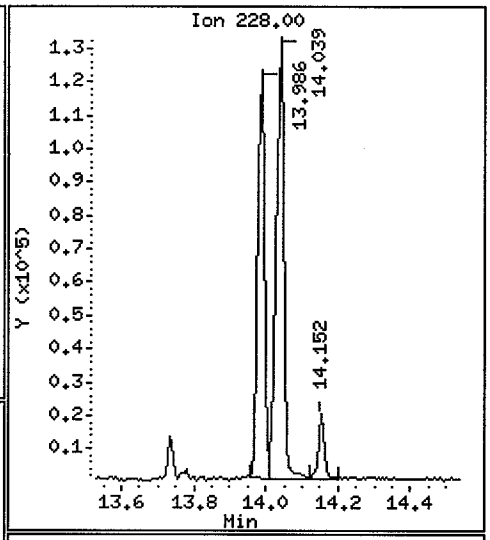
Concentration: 654.2 ug/kg

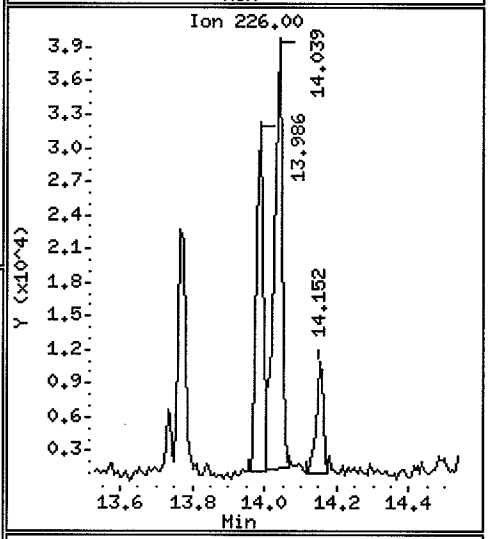


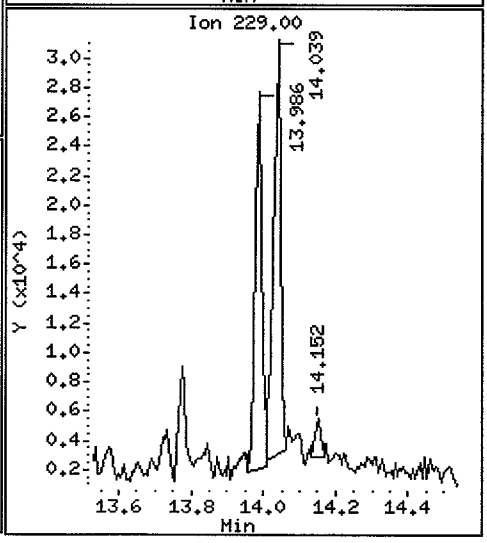












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

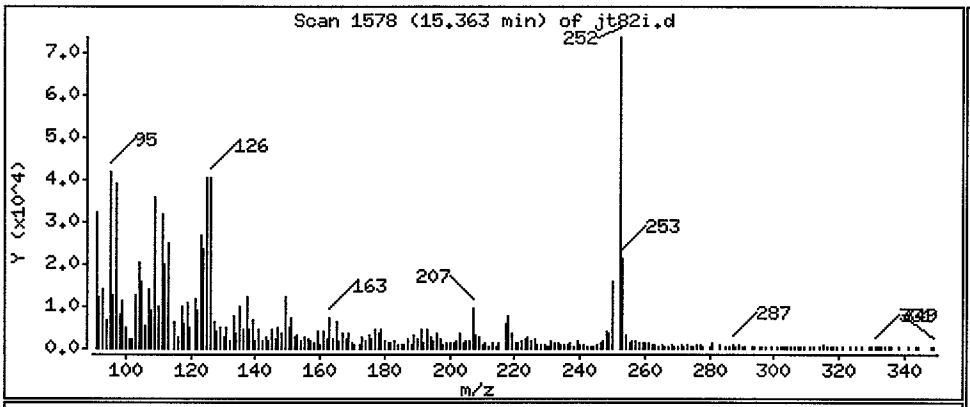
Operator: VTS

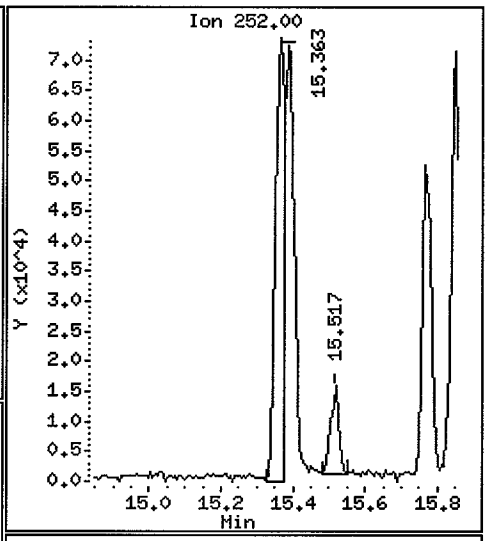
Column phase: ZB-5

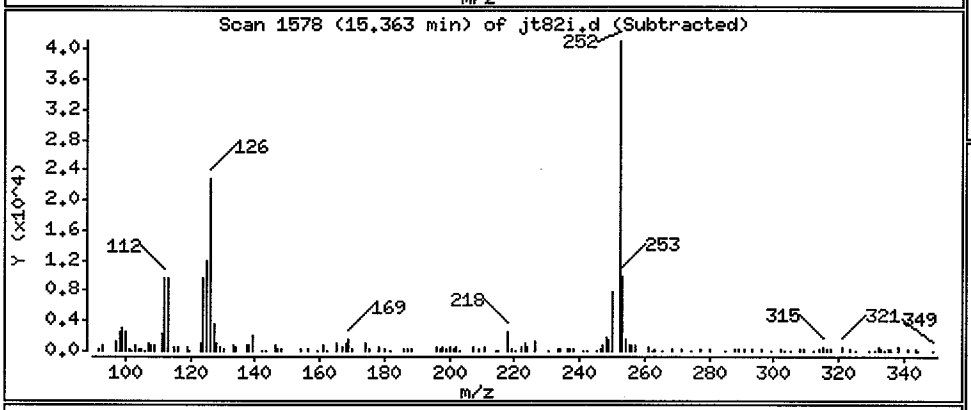
Column diameter: 0.25

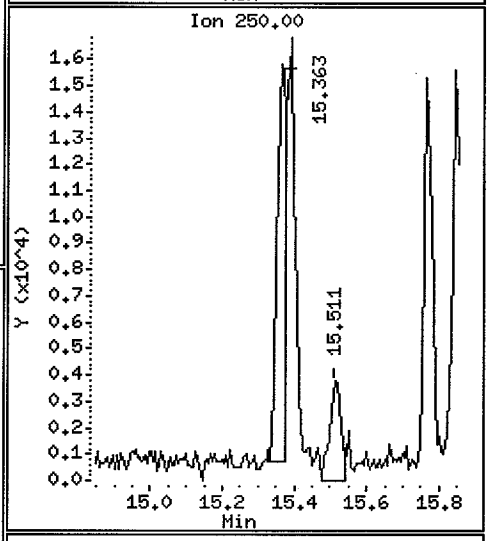
28 Benzo(b)fluoranthene

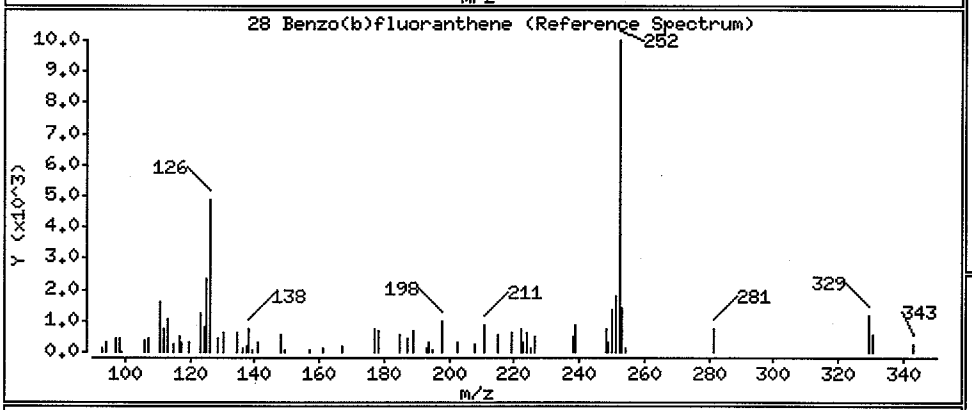
Concentration: 593.3 ug/kg

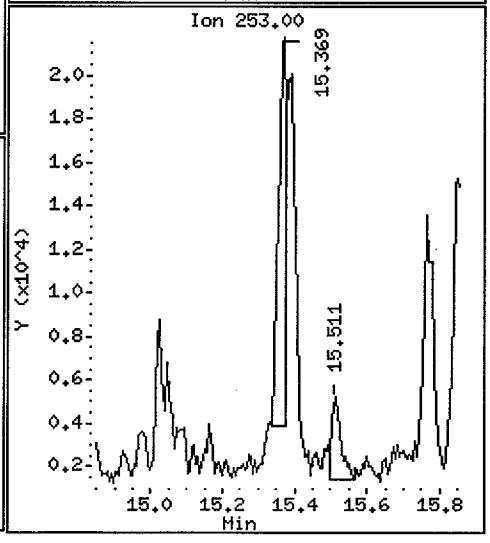


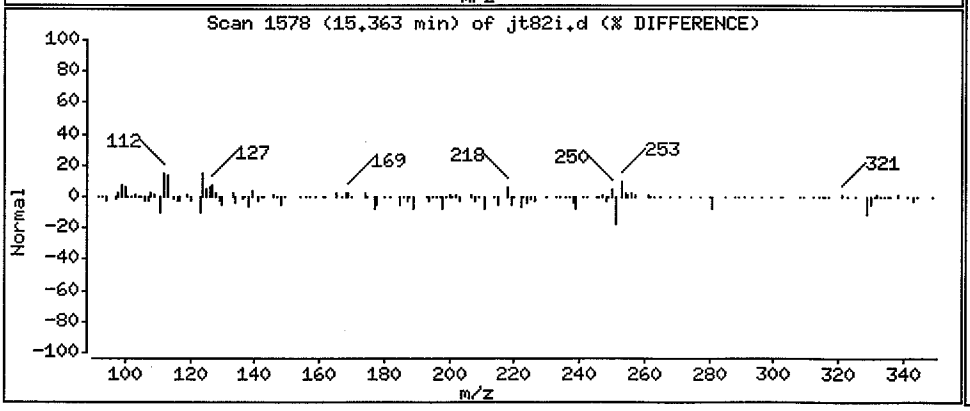












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

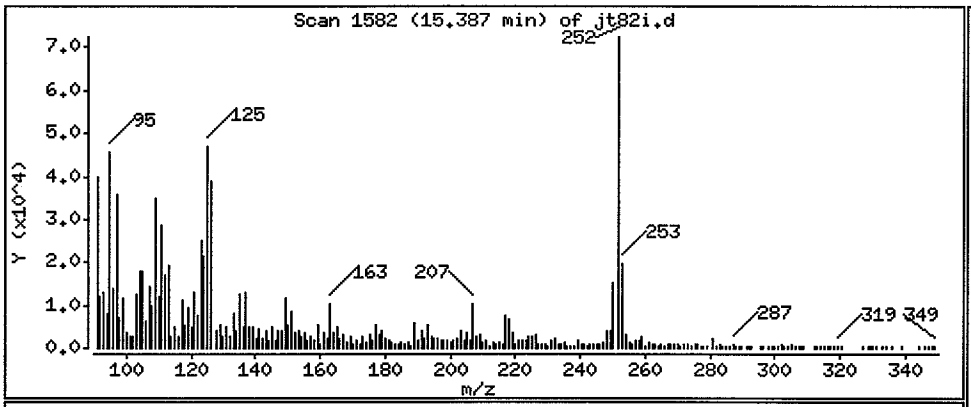
Operator: VTS

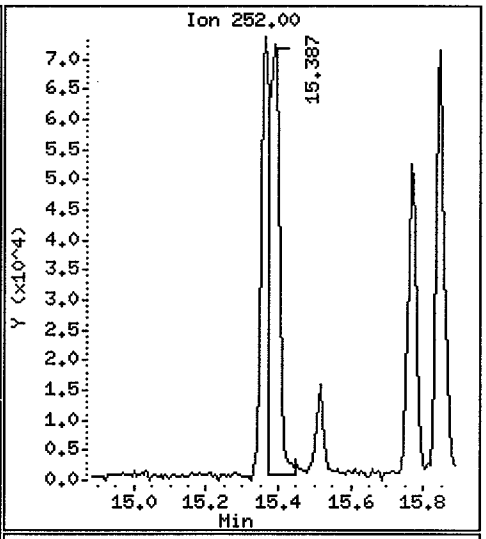
Column phase: ZB-5

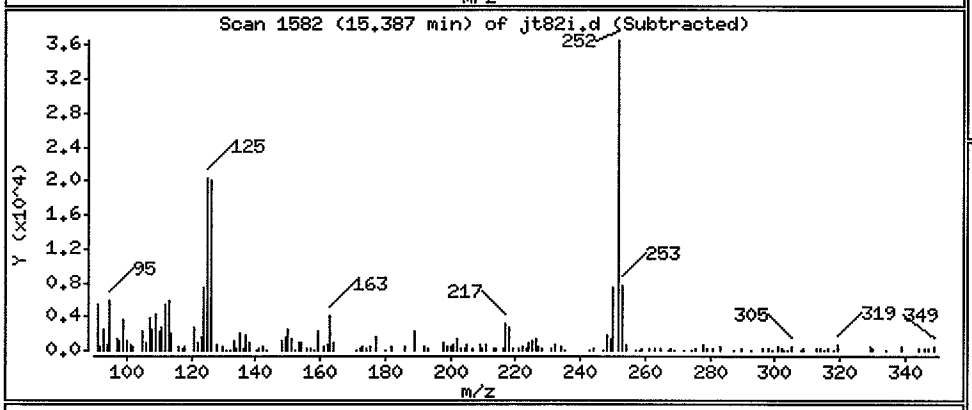
Column diameter: 0.25

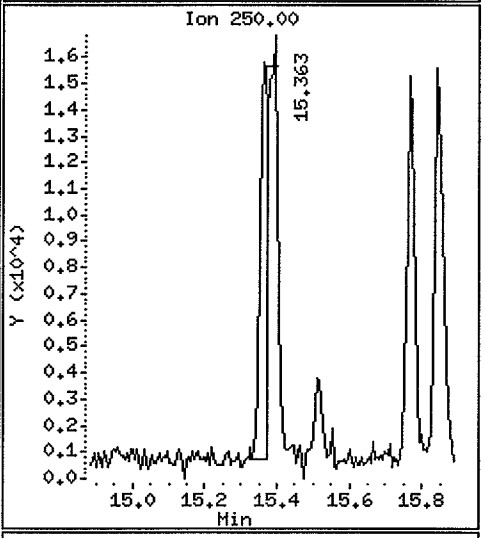
29 Benzo(k)fluoranthene

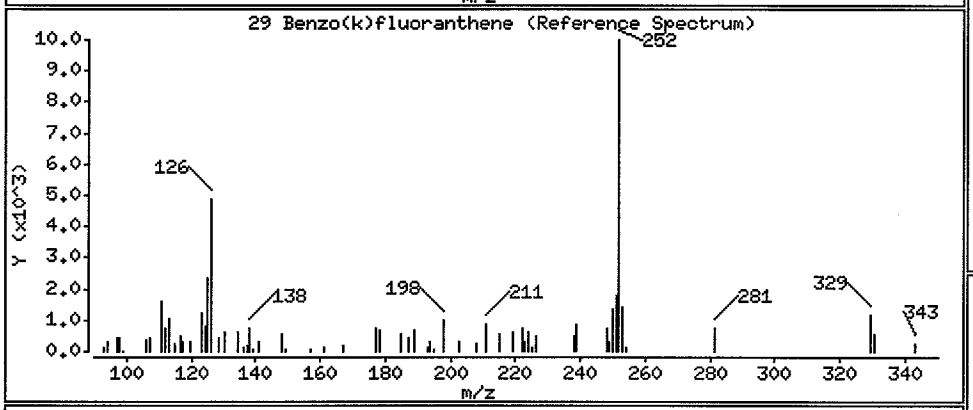
Concentration: 611.5 ug/kg

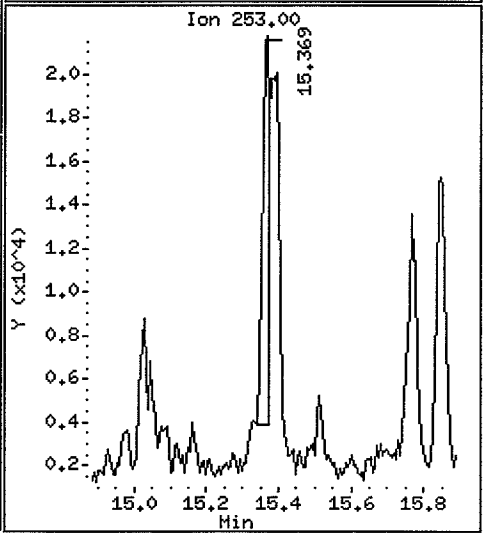


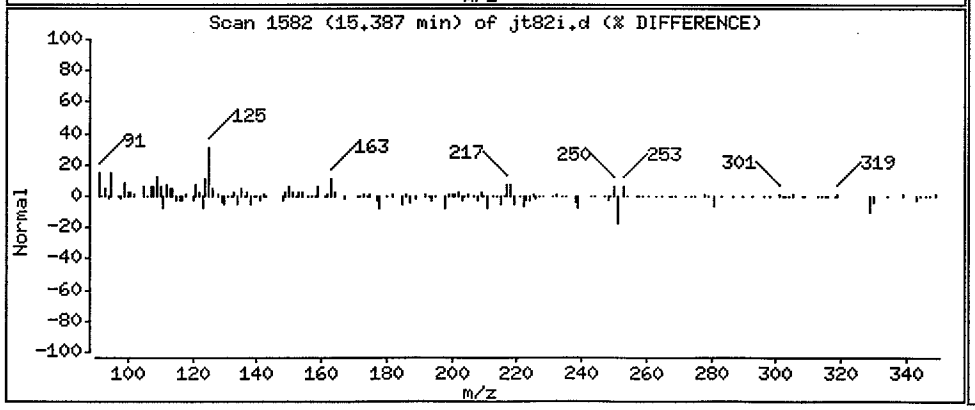












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

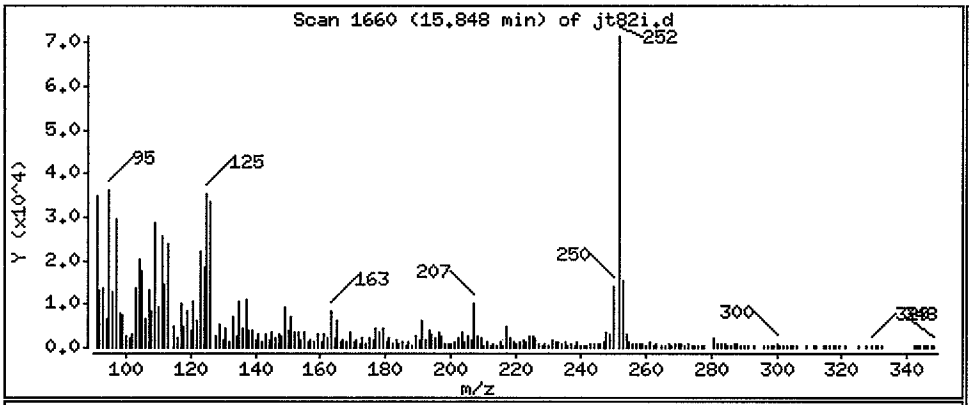
Operator: VTS

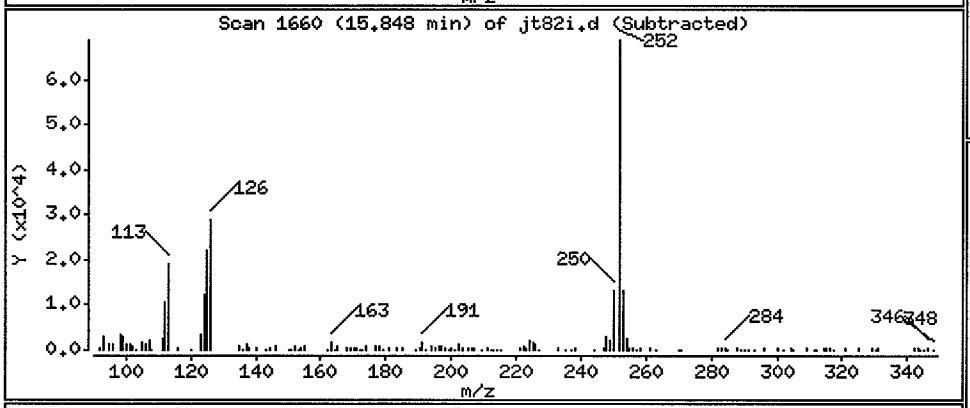
Column phase: ZB-5

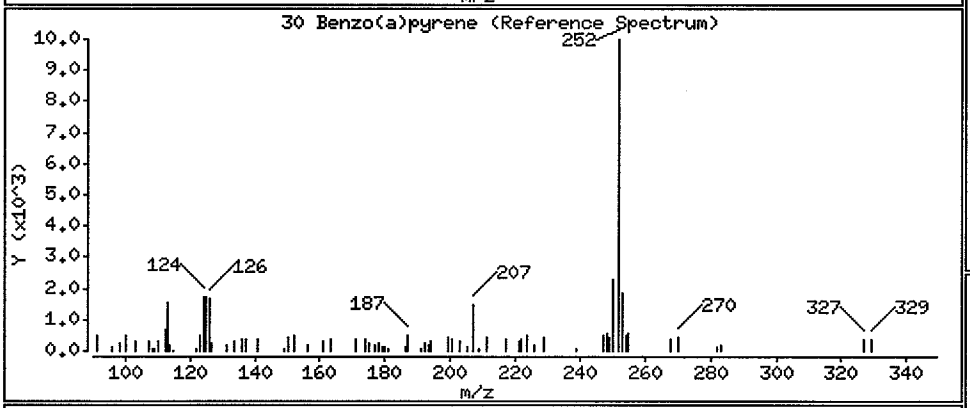
Column diameter: 0.25

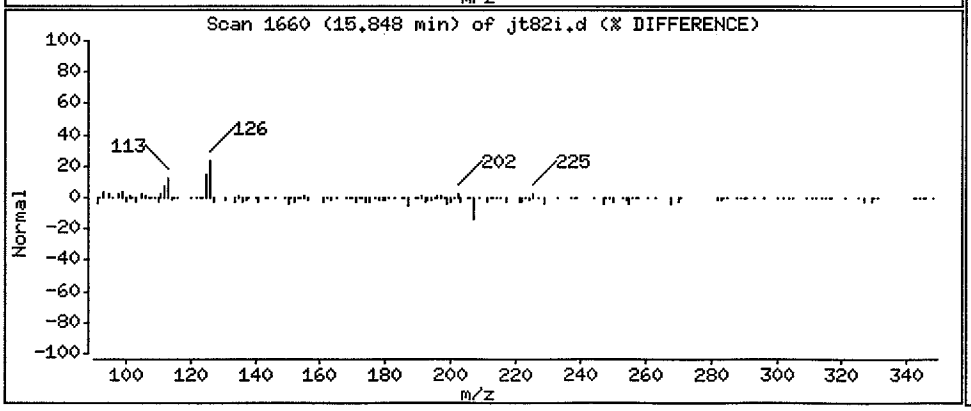
30 Benzo(a)pyrene

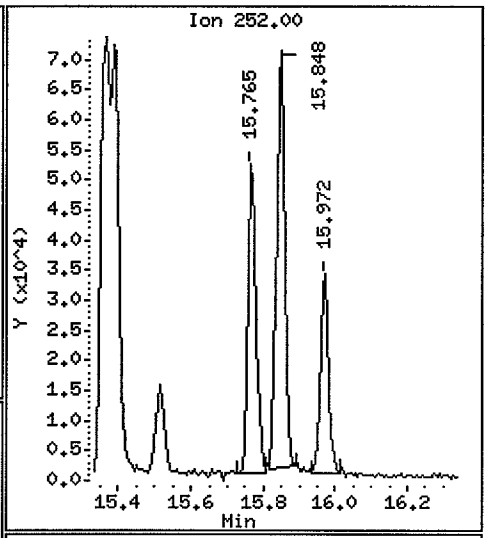
Concentration: 547.3 ug/kg

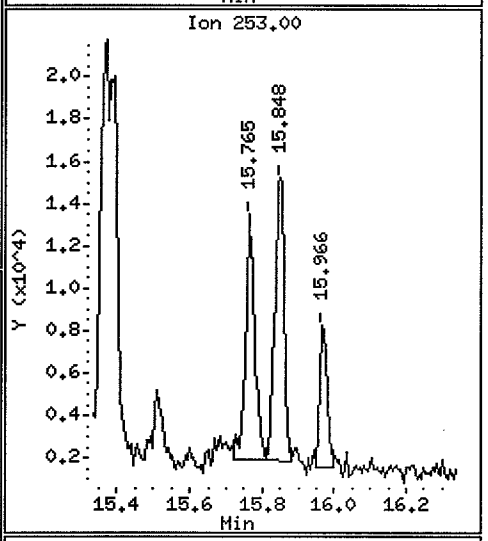


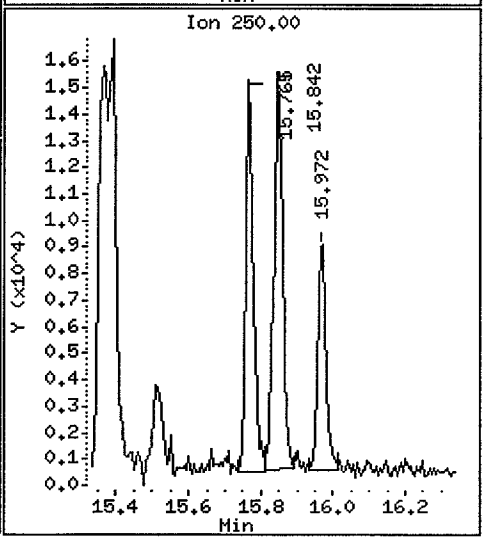












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

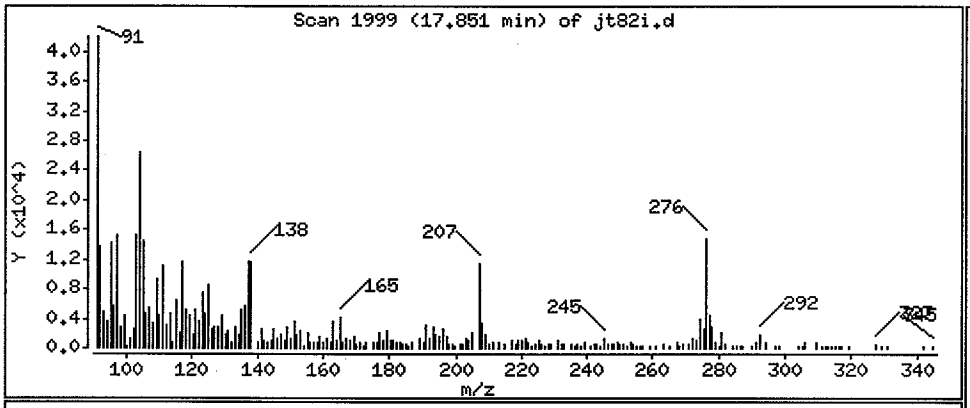
Operator: VTS

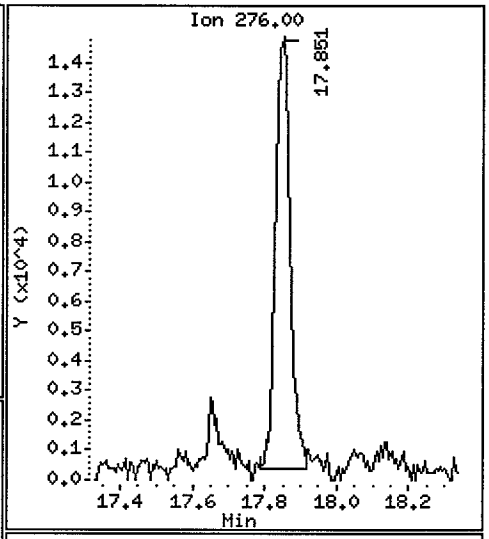
Column phase: ZB-5

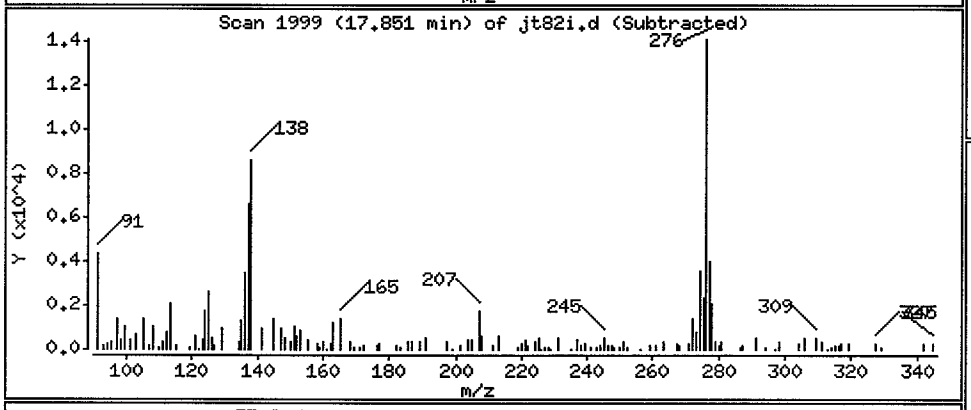
Column diameter: 0.25

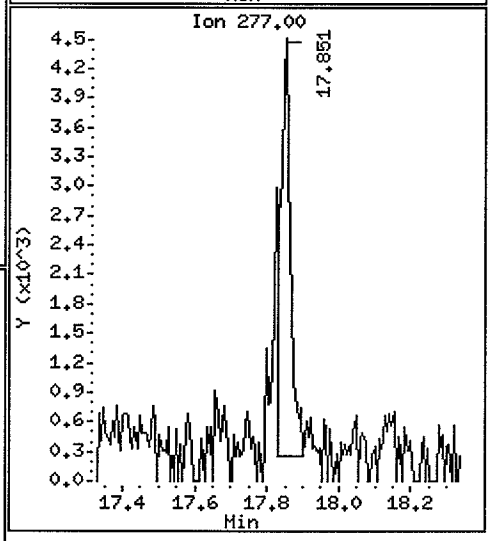
33 Indeno(1,2,3-cd)pyrene

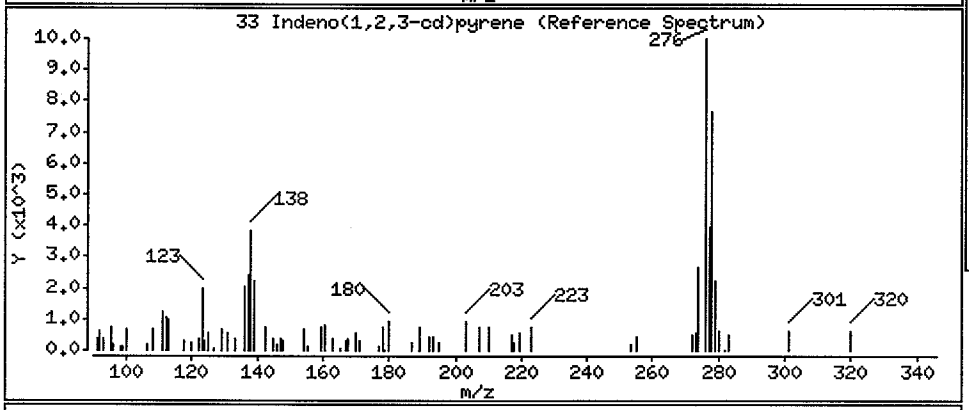
Concentration: 175.5 ug/kg

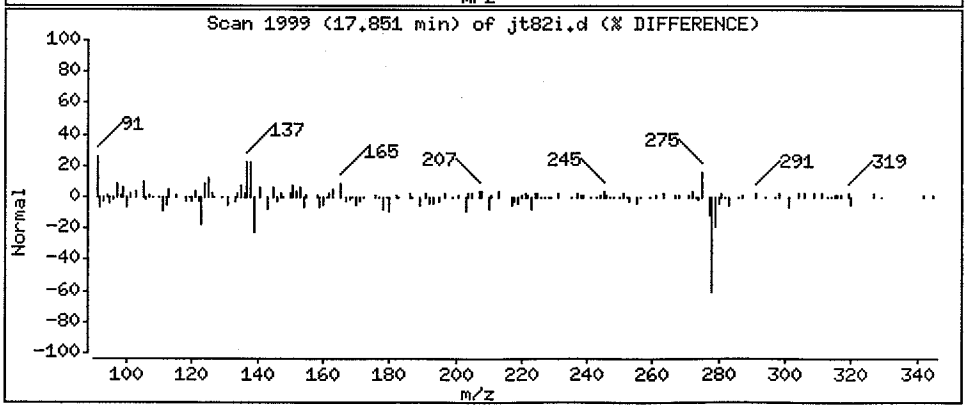












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

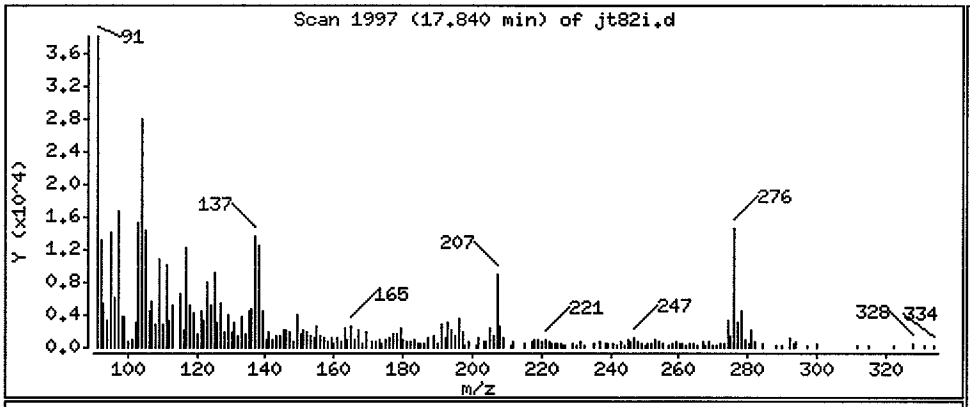
Operator: VTS

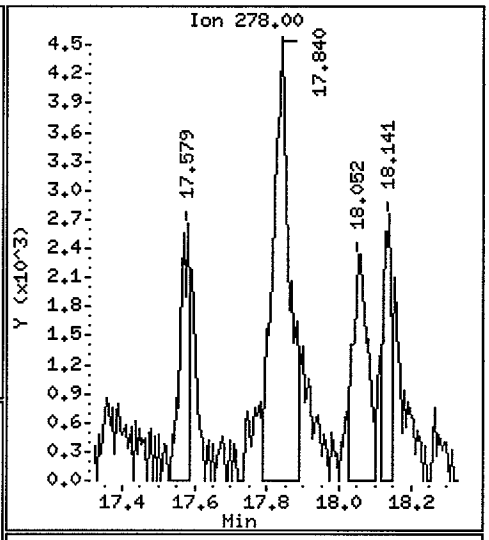
Column phase: ZB-5

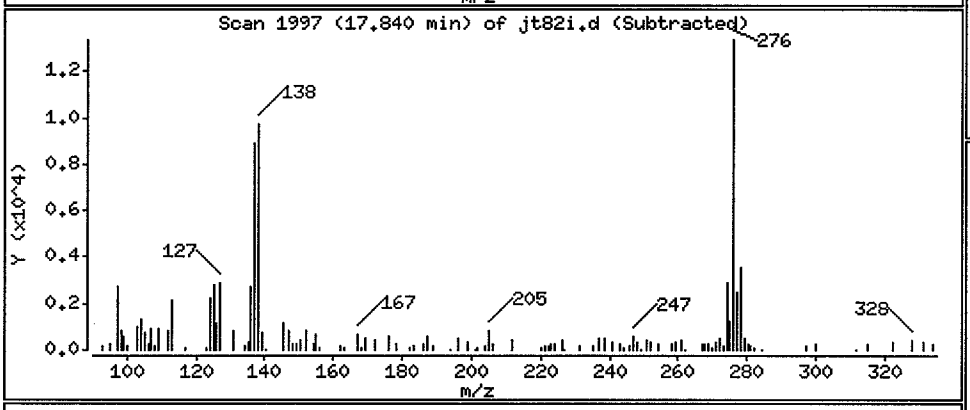
Column diameter: 0.25

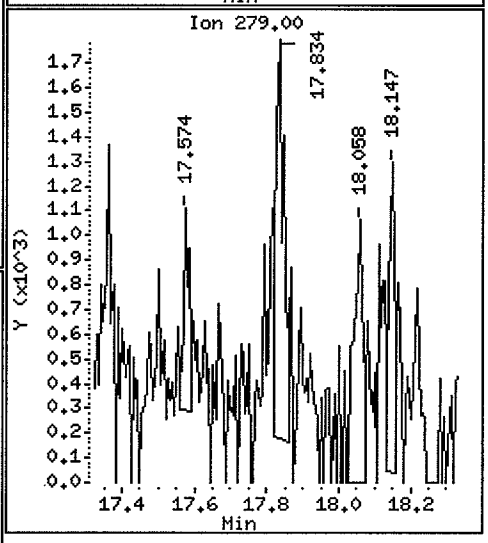
34 Dibenz(a,h)anthracene

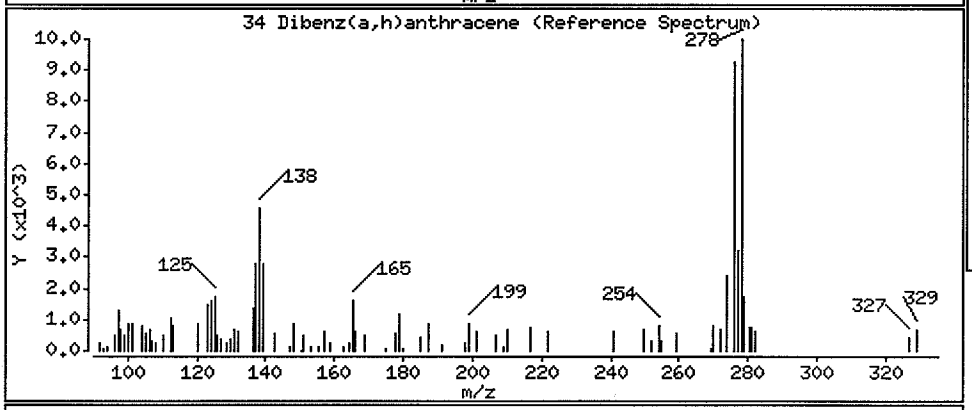
Concentration: 75.90 ug/kg

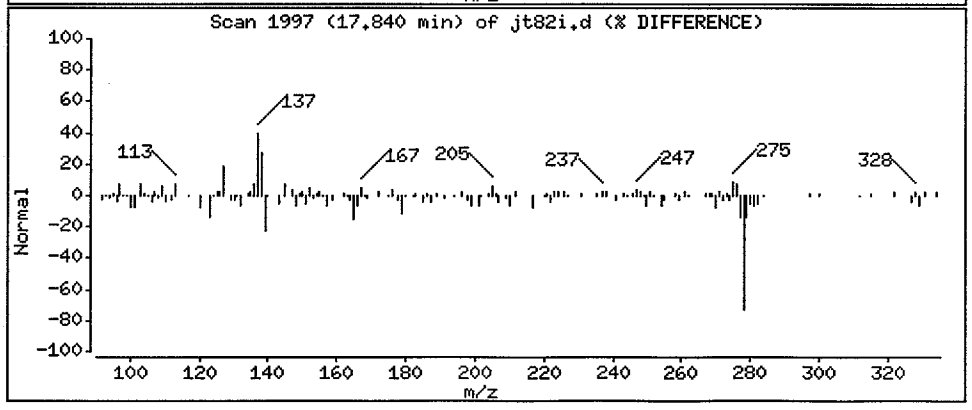












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

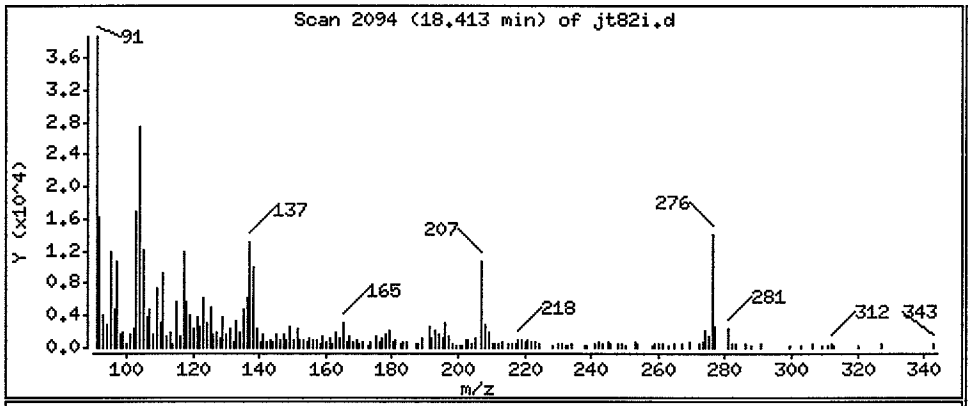
Operator: VTS

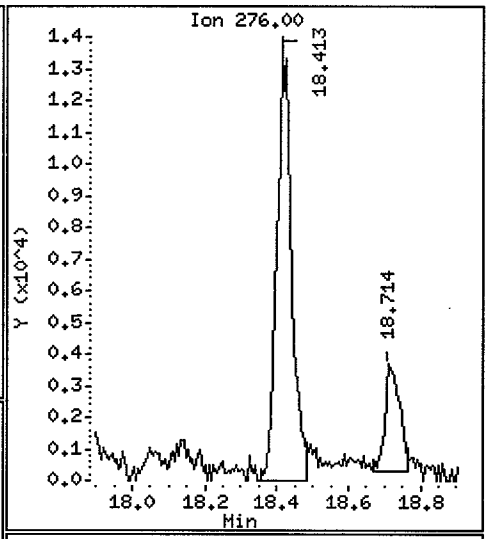
Column phase: ZB-5

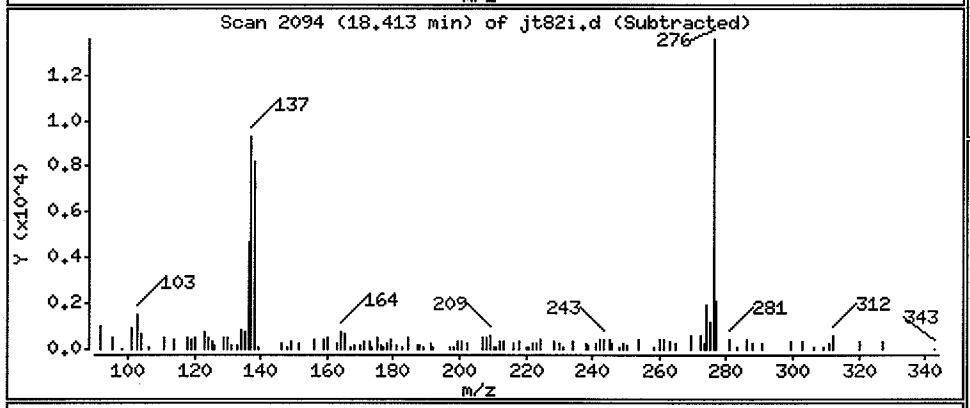
Column diameter: 0.25

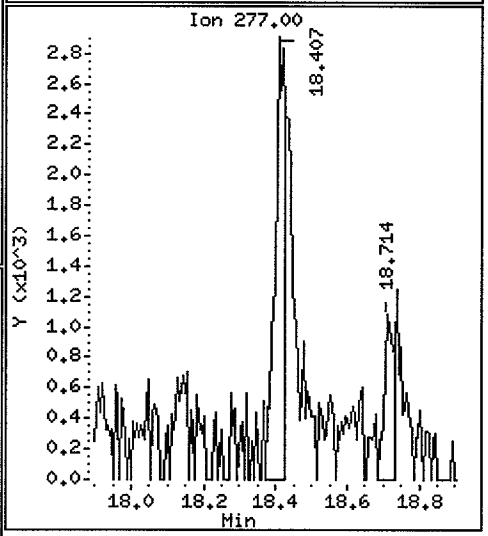
35 Benzo(g,h,i)perylene

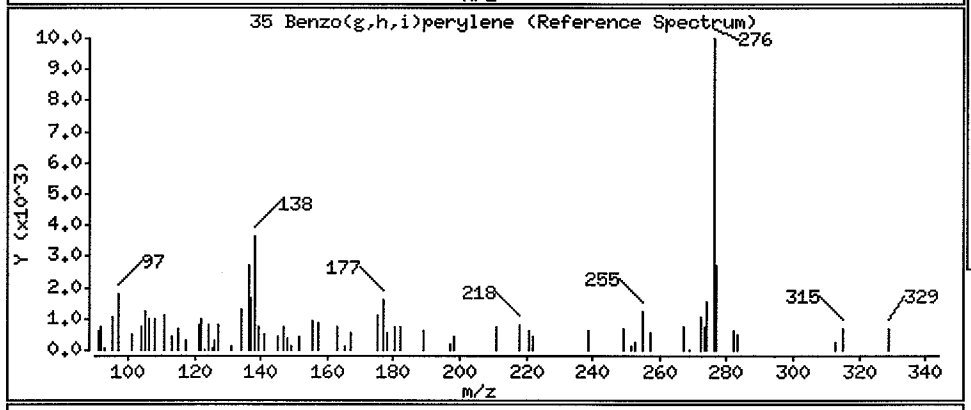
Concentration: 206.4 ug/kg

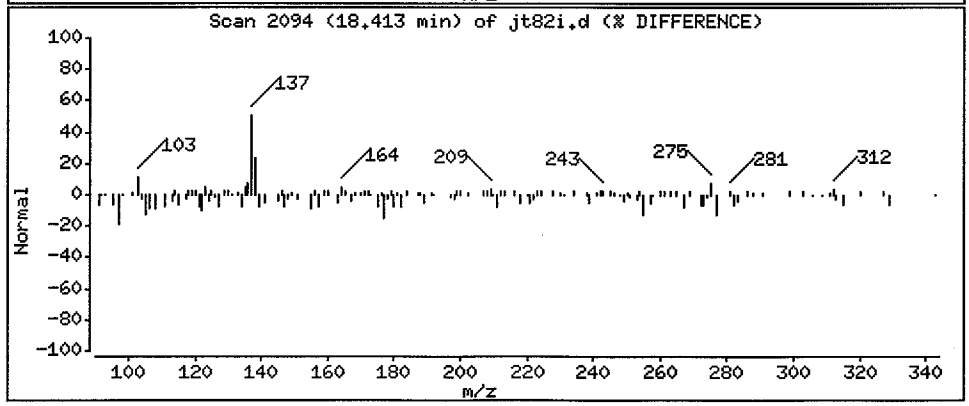












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

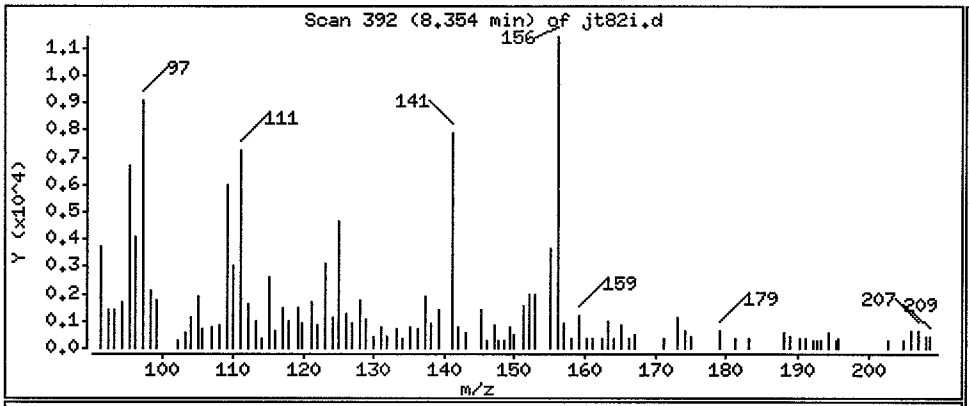
Operator: VTS

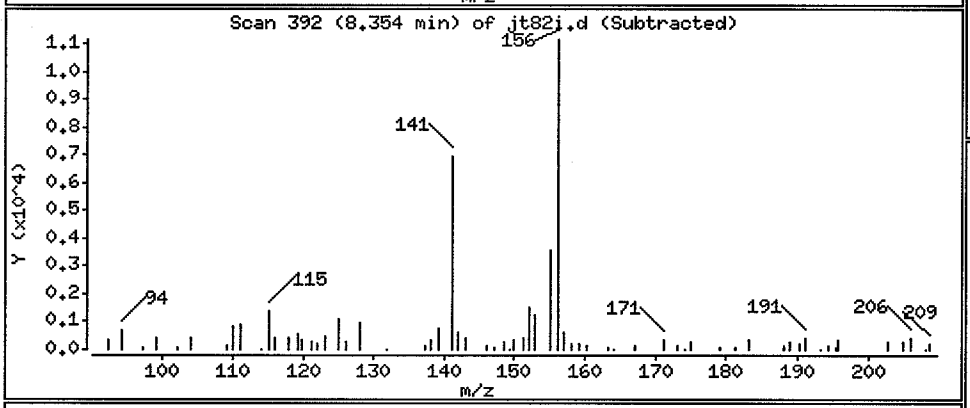
Column phase: ZB-5

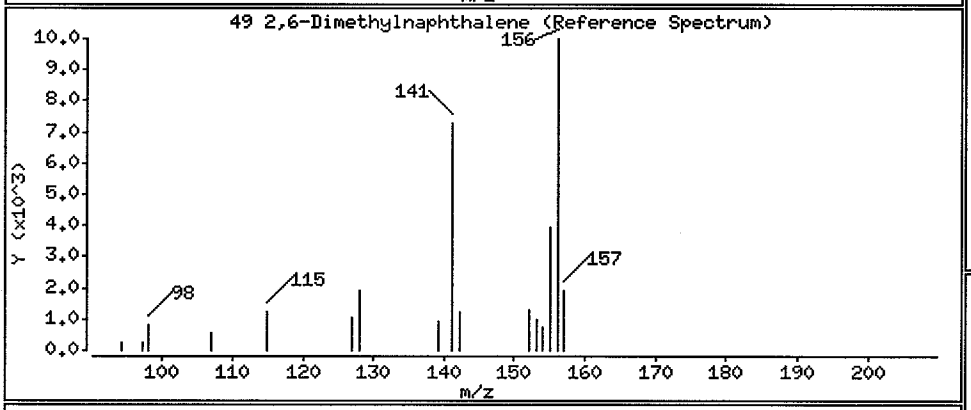
Column diameter: 0.25

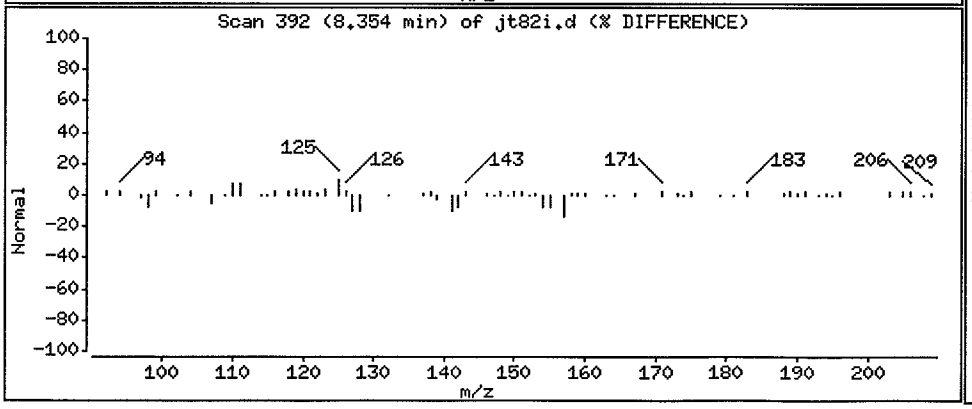
49 2,6-Dimethylnaphthalene

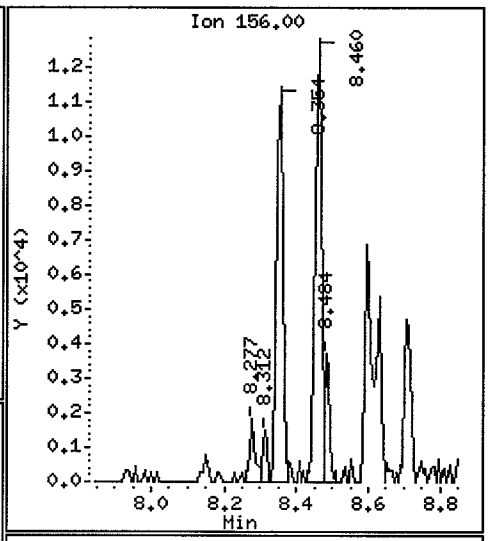
Concentration: 46.57 ug/kg

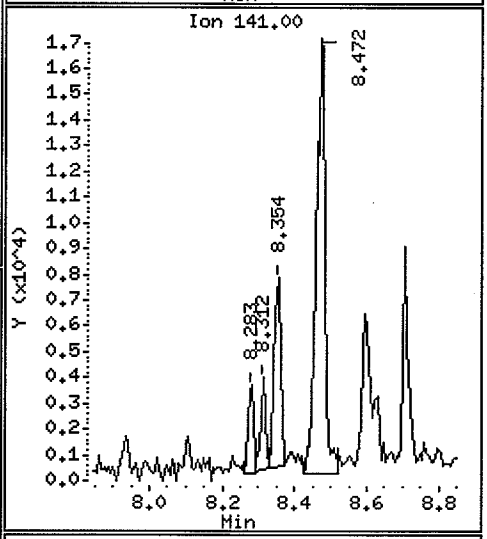


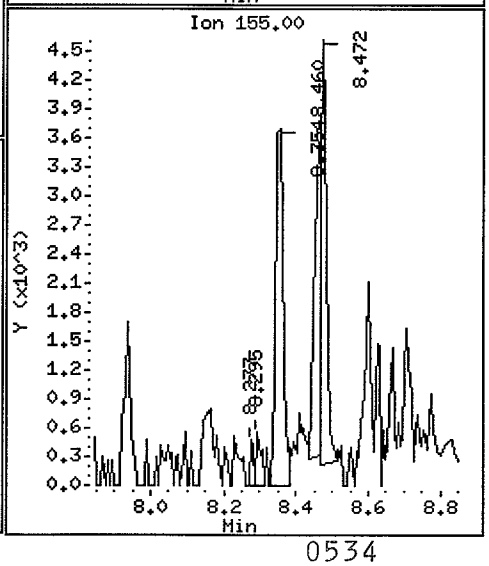












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

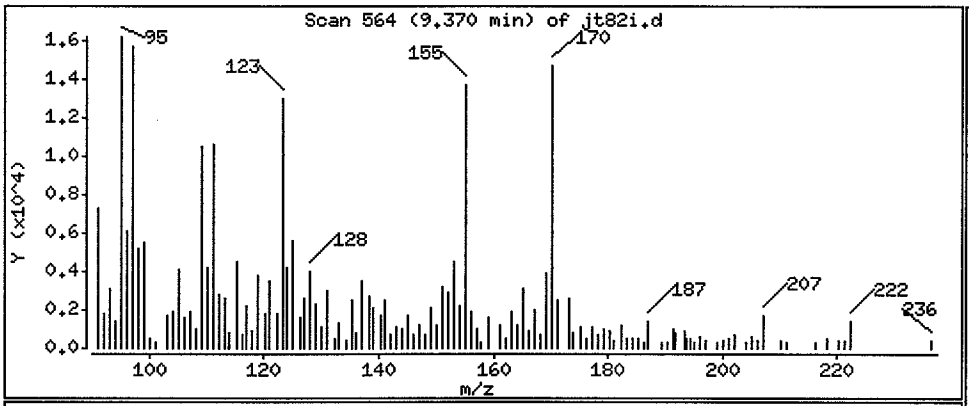
Operator: VTS

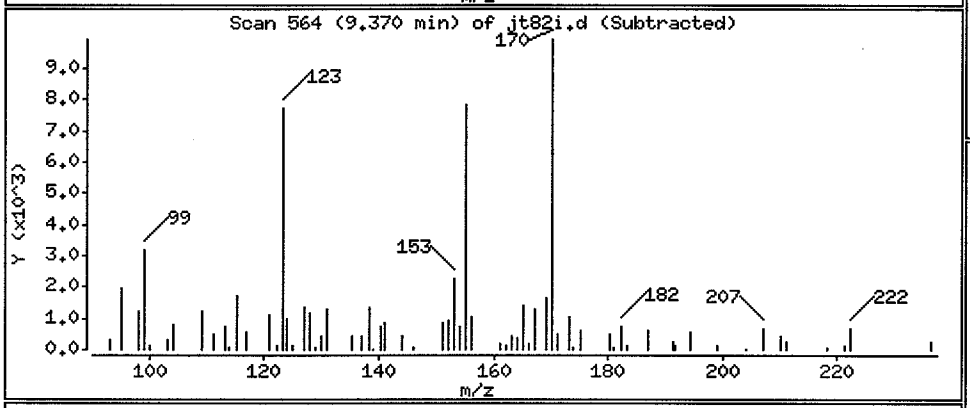
Column phase: ZB-5

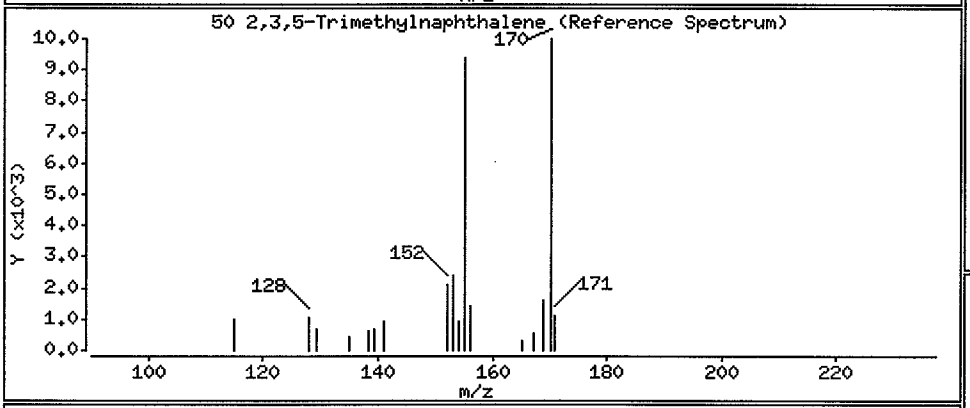
Column diameter: 0.25

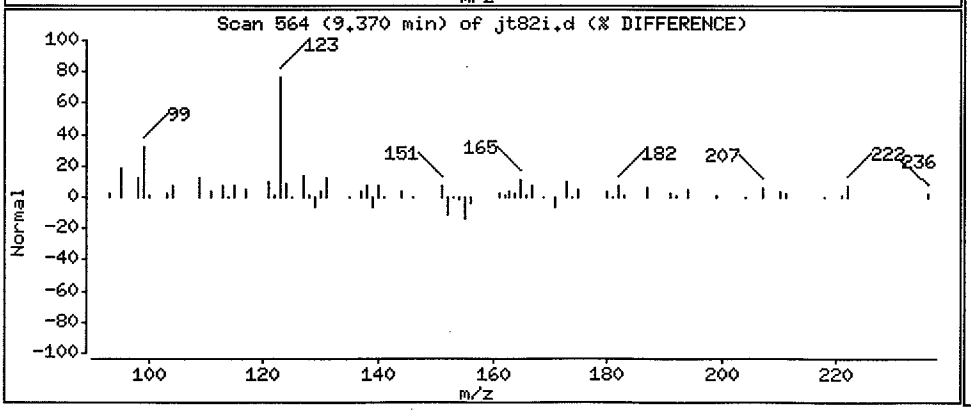
50 2,3,5-Trimethylnaphthalene

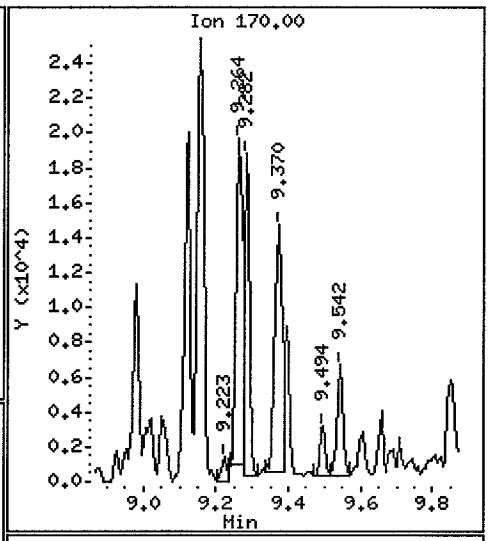
Concentration: 93.66 ug/kg

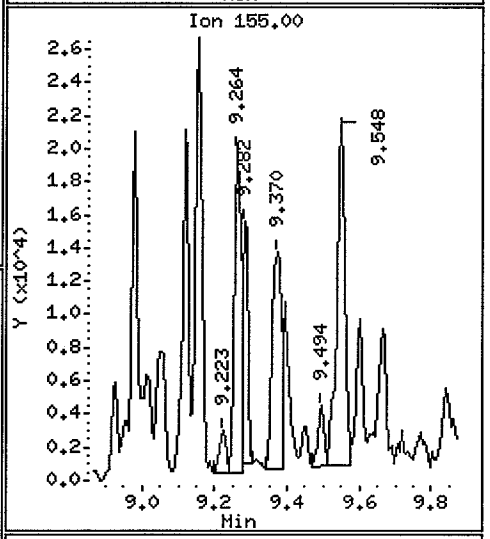


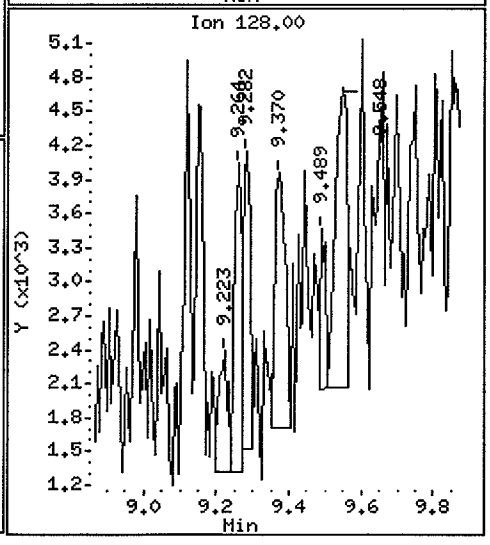












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

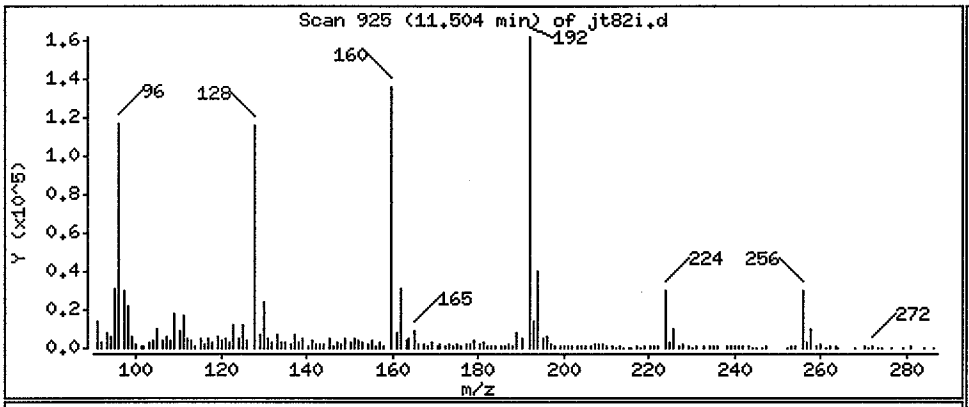
Operator: VTS

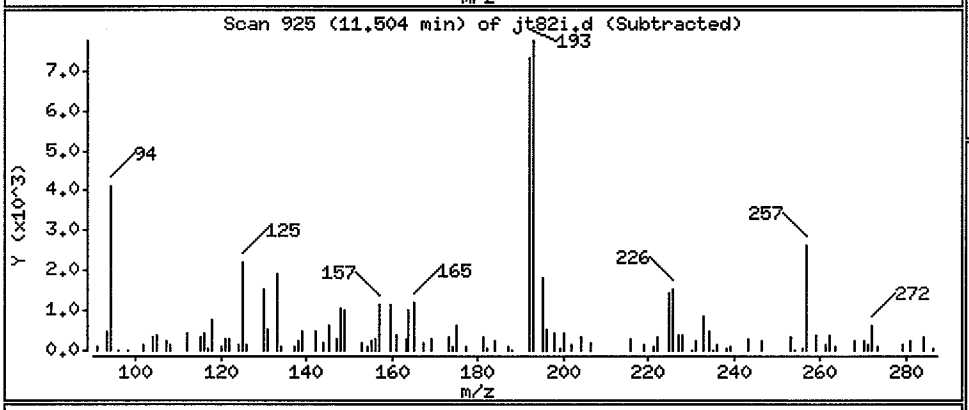
Column phase: ZB-5

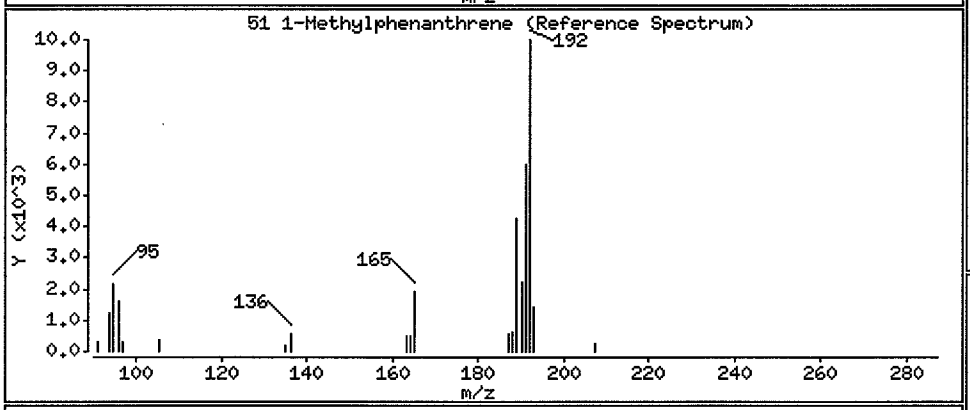
Column diameter: 0.25

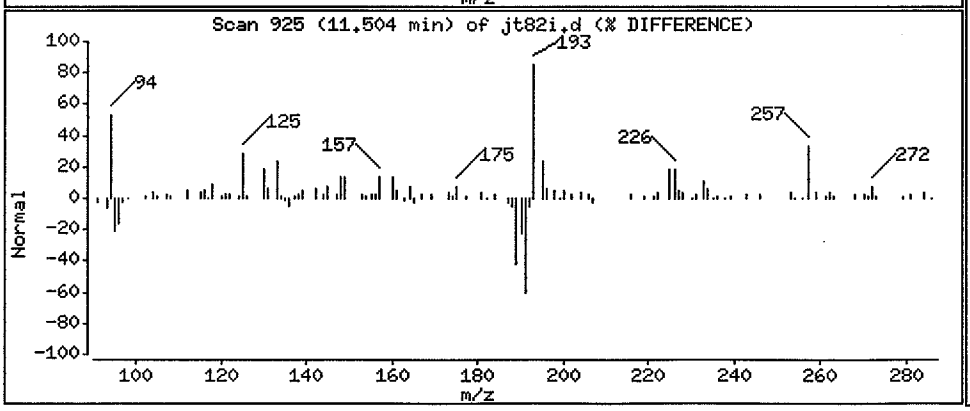
51 1-Methylphenanthrene

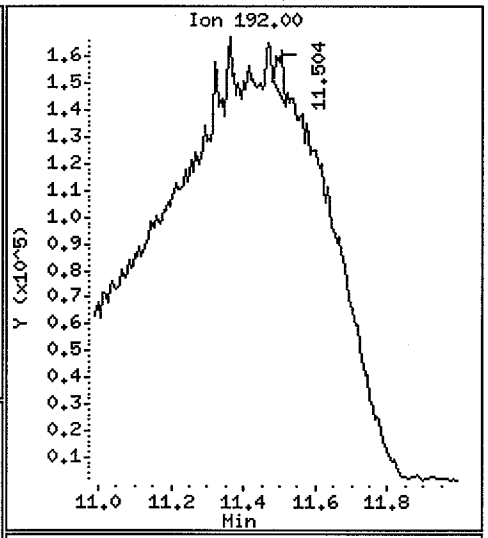
Concentration: 81.79 ug/kg

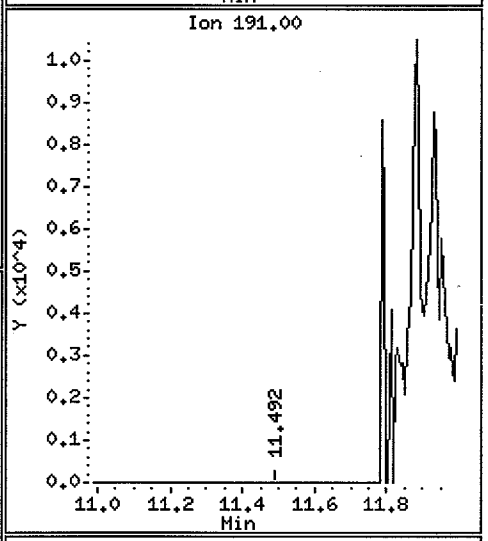


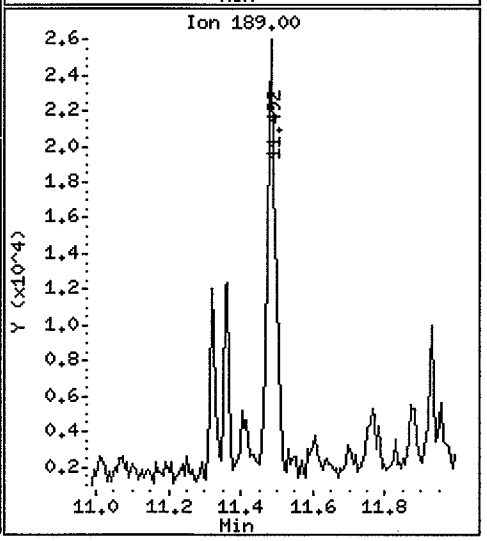












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

Sample Info: JT82I

Volume Injected (uL): 1.0

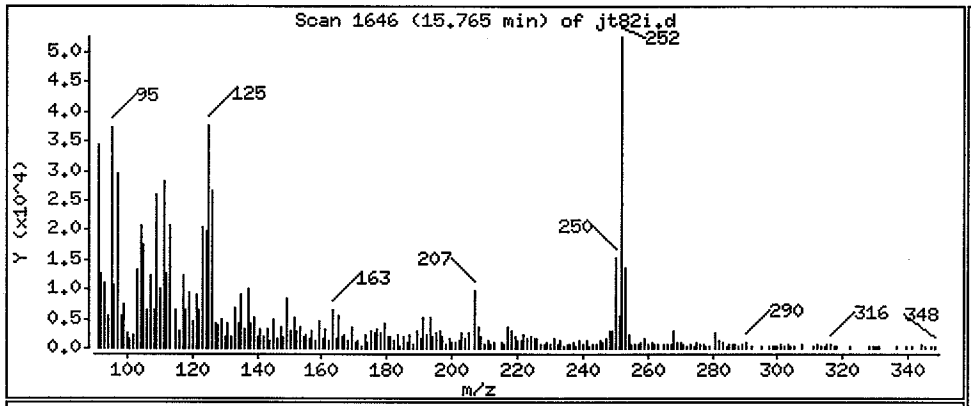
Operator: VTS

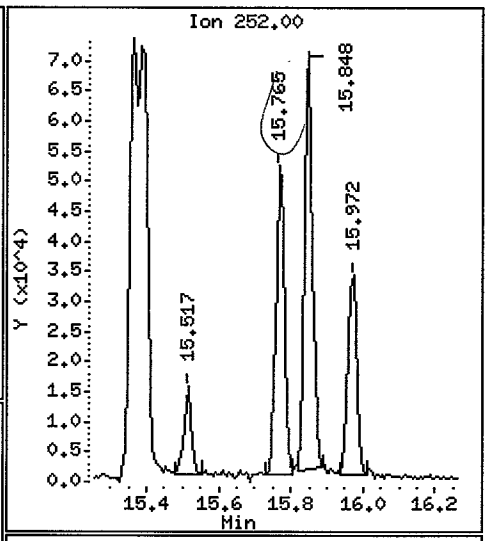
Column phase: ZB-5

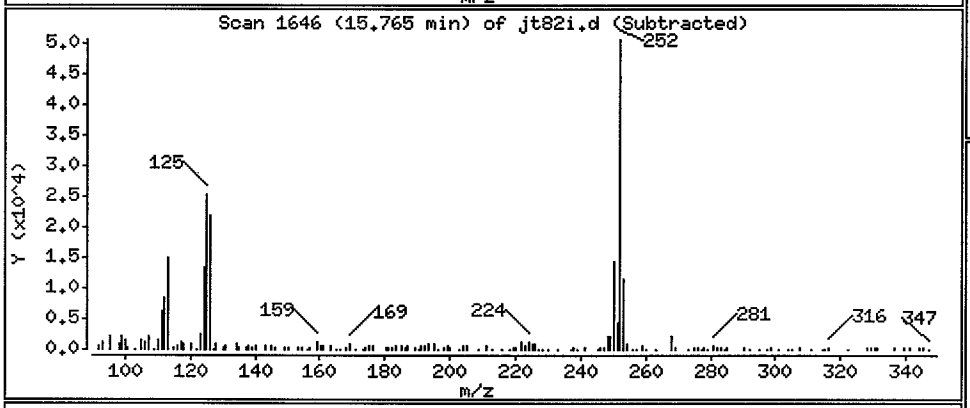
Column diameter: 0.25

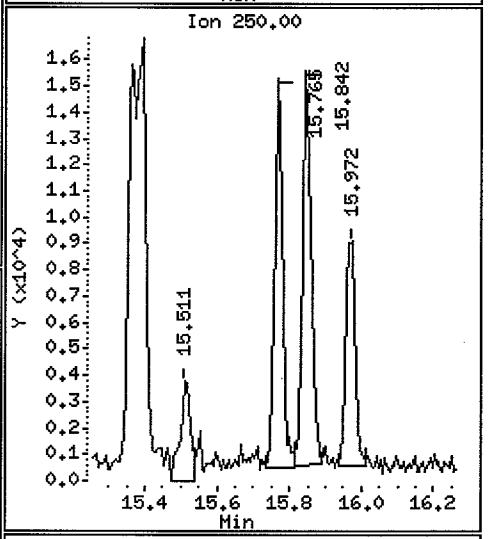
52 Benzo(e)pyrene

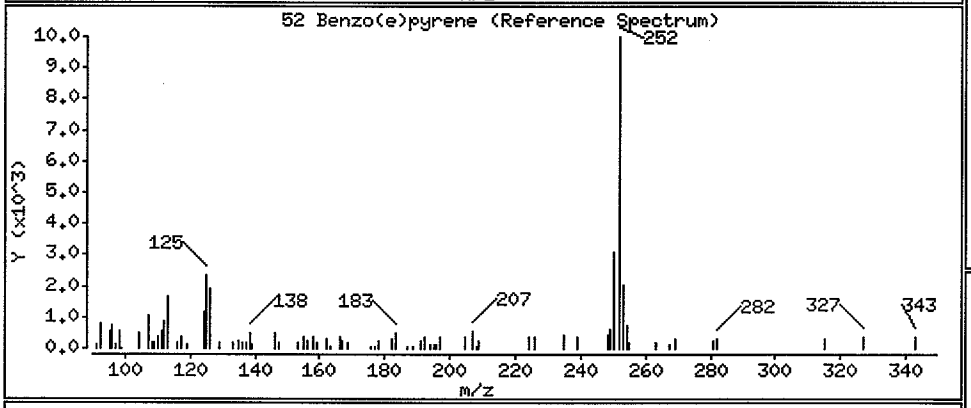
Concentration: 377.4 ug/kg

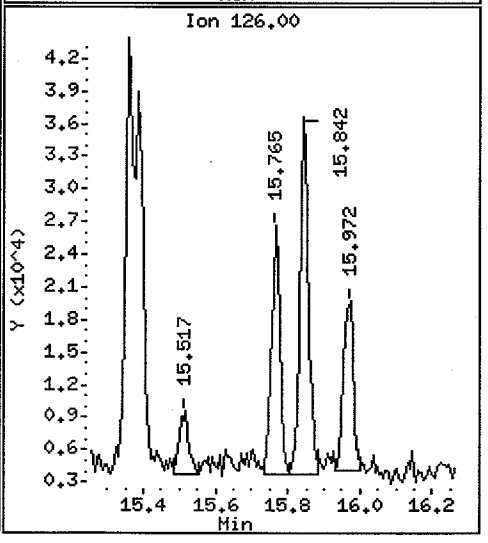


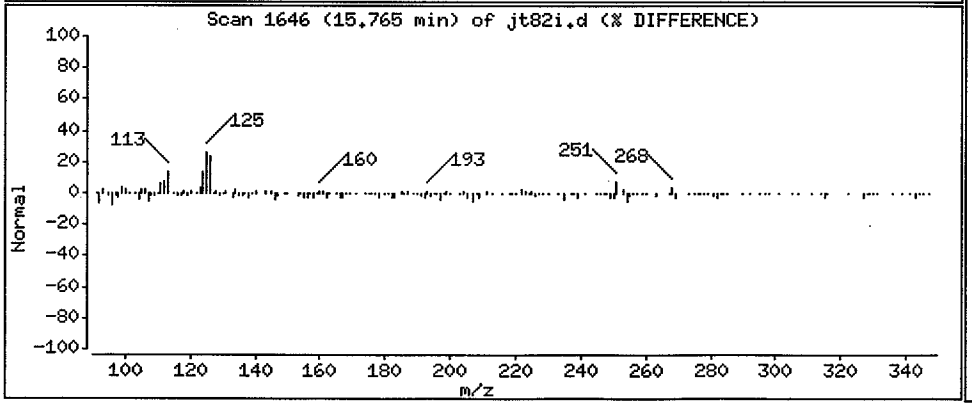












Data File: /chem3/nt1.i/20060831.b/jt82i.d

Date : 31-AUG-2006 21:27

Client ID: T4-S3-02-H

Instrument: nt1.i

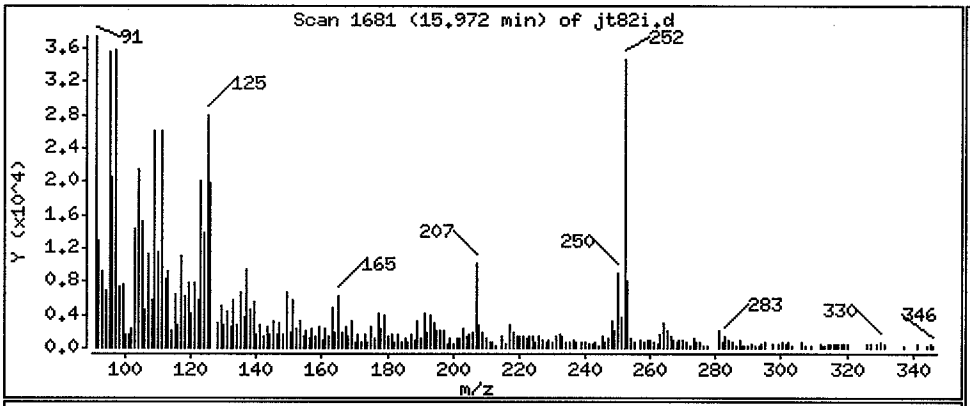
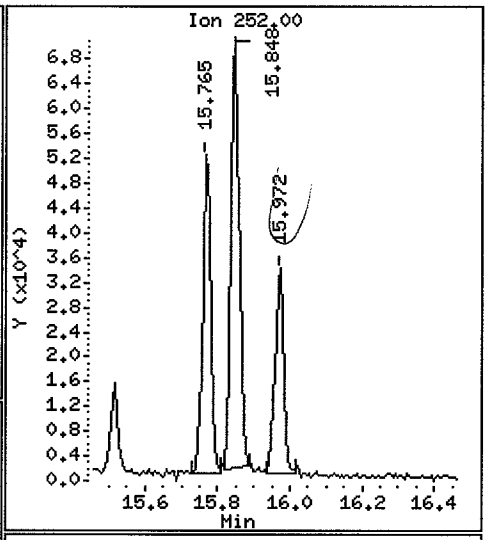
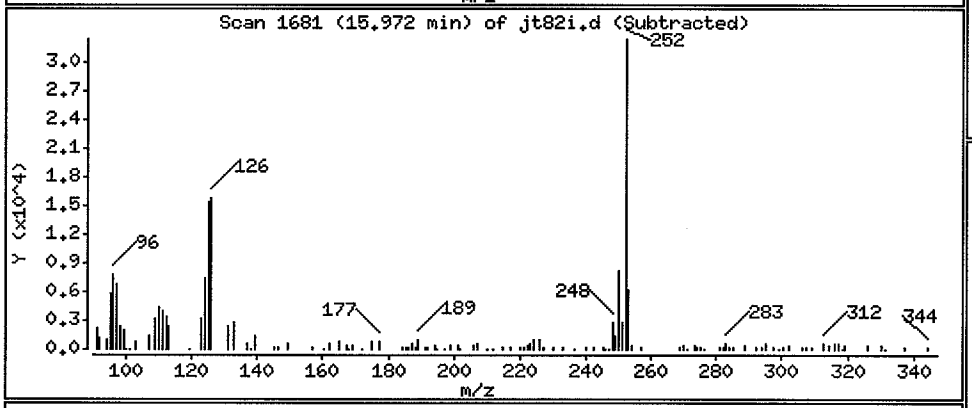
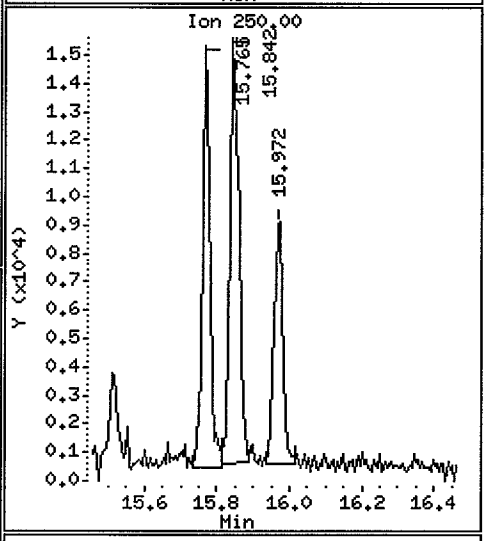
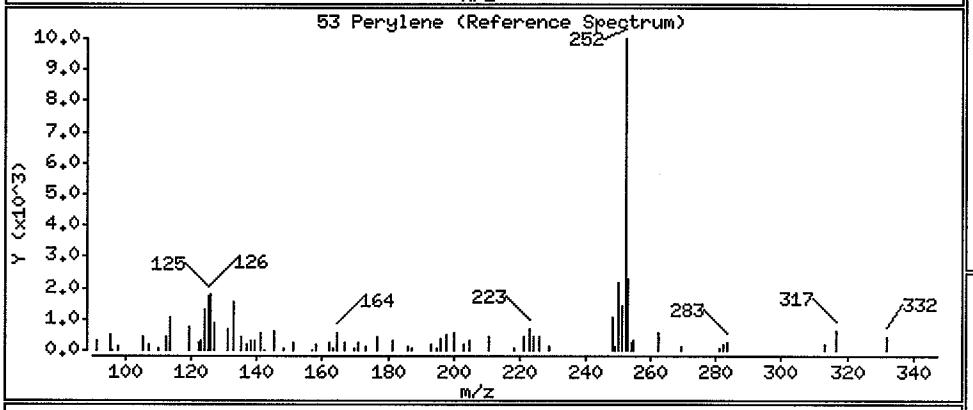
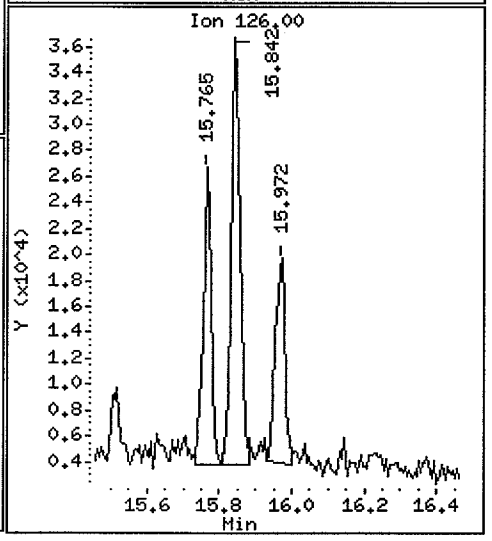
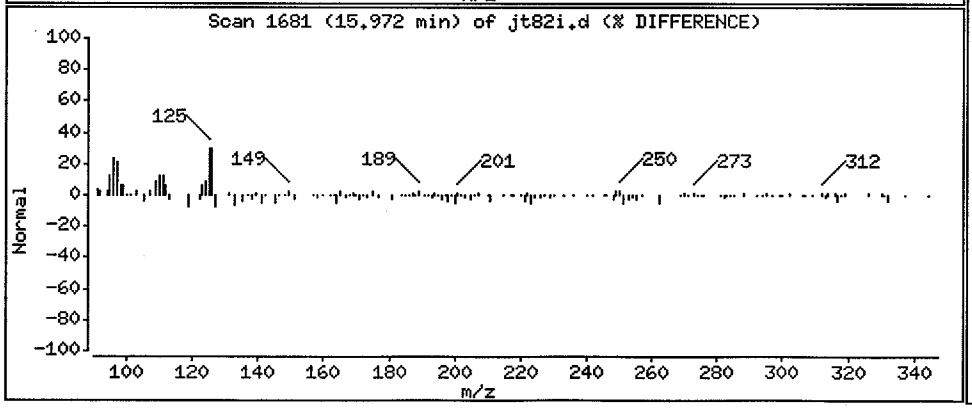
Sample Info: JT82I

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

53 Perylene

Concentration: 261.8 ug/kg