Analytical Resources, Incorporated
Analytical Chemists and Consultants

August 28, 2006

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

RE: Client Project: 050332-01
ARI Job No. JQ36

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 JQ36

SD/sdrd

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ36

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	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		

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-SS-07-A	7/20	1330	Sediment	3							X		
-B	↓	↓	↓	↓	X	X	X	X	X	X			
-C					↓	↓	↓	↓	↓	↓			Archive = Freeze
-D													
-E													
-F											X		
-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

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

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Client Contact: BEN HUNG	
Client Project Name: T4 EARLY ACTION	
Client Project #: 050332-01	Samplers: BH/EA/KT

Page: 13 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	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	↓	↓	↓	↓									
-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

0003

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Chain of Custody Record & Laboratory Analysis Request

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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: 19 | Cooler Temps: 1.5 – 5.0 – Soils; 2C – 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-S3-02-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		
T4-S3-03-H-DUP	7/19	858	↓	↓							X		

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Tim Stone	(Signature) [signature]	(Signature)	(Signature) Bob Congleton
	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

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0004

Chain of Custody Record & Laboratory Analysis Request

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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: 15 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	Pb	Zn	Grainsize			Notes/Comments
T4-WB-01	7/20	1830	Sediment	3	X	X	X	X	X	X			
T4-WB-02	7/20	1800	↓	↓	↓	↓	↓	↓	↓	↓			
T4-WB-03	7/20	1710	↓	↓	↓	↓	↓	↓	↓	↓			
T4-WB-04	7/20	1635	↓	↓	↓	↓	↓	↓	↓	↓			

Comments/Special Instructions

Relinquished by: (Signature) Tim Stone	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature) Bob Congleton
Printed Name: ~~ANCHOR~~ 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

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0005

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

Client: _____ Project Name: _____

NO.: _____ Delivered By: COURIER

king NO.: _____ Date: _____

Job No.: _____ Lims NO.: _____

iminary 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

ler Accepted BY: Bob Conglas Date: 7/21/06 Time: 1635

–IN Phase: 4 BUCKETS; AMBIENT

5. Was a temperature blank include in the cooler? ..... YES NO
6. Record Cooler Temperature 1.5, 3.5, 2, 1.5, 5, 3, 1.6, 2, 2, 1.5 °C 10 Coolers soil
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
10. Did all bottles arrive in good condition (unbroken)? ..... YES NO
11. Were all bottle labels complete and legible? ..... YES NO
12. Did all bottle labels and tags agree with custody papers? ..... YES NO
13. Were all bottles used correct for the requested analyses? ..... YES NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES NO
15. Were all VOA vials free of air bubbles? ..... YES NO
16. Was sufficient amount of sample sent in each bottle? ..... YES NO
17. Notify Project Manager of any discrepancies or concerns ..... OK NA

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

in any discrepancies or negative responses:

A – CAR BOY COOLERS IN CONVENTIONAL WALK-IN.

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ36

prepared
by

Analytical Resources, Inc.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative

Client: Anchor Environmental
Project: 050332-01 T4 Early Action
Matrix: Sediment
ARI Job Nos. JQ36

Some of the samples within delivery groups for this project were analyzed together, and information may be duplicated within data packages.

Sample receipt

Twelve sediment samples were received July 21, 2006 under ARI Job JQ36 as part of a larger shipment. Samples were well iced and the 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.

Samples were initially to be analyzed either by SIM or Full-scan with combined PAH and Phthalate data to come from one analysis. Due to a preference in the laboratory to run the Phthalates full-scan and target detection limits of 5 ppb for the PAH compounds, samples were analyzed by both methods.

Diesel/Motor Oil Range Hydrocarbons by WDOE NWTPH-Dx

Samples were extracted and analyzed within recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean and LCS recoveries were within ARI limits.

Surrogates recoveries were within ARI control limits.

The MS/MSD had RPDs within limits. Recoveries could not be calculated due to high concentration in the parent sample compared to the spike concentration. No corrective action is required.

Several samples required analysis at dilution due to response above the calibrated range of the instrument.

There were no other incidents of note.

Semivolatiles by SW8270C

Sediment samples were initially screened to determine if a response was present that would affect sample analysis. Some samples were extracted at lesser weights. 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 Di-n-butyl phthalate. 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.

Internal standard areas were within method limits.

There were no other incidents of note.

Semivolatiles by 8270C-Selected Ion Monitoring (SIM)

The semivolatile extract was analyzed by SIM to attempt to reach project action limits. Sediment samples were initially screened to determine if a response was present that would affect sample analysis. Some samples were extracted much at lesser weights. After initial analysis it was determined that many of the samples were highly contaminated and should have been analyzed by full-scan. Because the full-scan extracts did not contain all the appropriate surrogates and spikes, analysis was completed using the SIM extract.

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.

LCS recoveries were within ARI limits.

Surrogates recoveries were within ARI control limits.

Sample T4-S3-07-B was rerun at dilution due to internal standards outside limits. Only the second run has been reported. Internal standard areas were within method limits for all reported analyses.

The MS/MSD recoveries and RPDs were within limits.

Several samples required analysis at dilution due to analytes above the calibrated range of the instrument. Both sets of results 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 and LCS recoveries were within limits.

The SRM had recoveries within limits.

Duplicate RPDs and Matrix spike recoveries were within limits.

There were no incidents of note.

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.

Laboratory QC failed the first analysis and were reanalyzed with acceptable QC.

Standard reference recoveries were within limits.

There were no other incidents of note.

Geotechnical Parameters

A geotechnical narrative follows this page.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Anchor Environmental	ARI Project No.: JQ36
Client Project No.: T4 Early Action 050332-01	

Case Narrative

1. Twelve samples were submitted on July 21, 2006, for grain size distribution, according to ASTM D421/D422.
2. A standard "milkshake" mixer was used to disperse the samples.
3. Sample T4-WB-03 was chosen for triplicate analysis. The triplicate data is reported on the QA Summary.
4. Samples T4-S3-07-B, T4-S3-04-A, T4-S3-04-C, T4-WB-01 andT4-WB-02 contained woody matter, which may have broken down during the sieving process, affecting grain size analysis.
5. An assumed specific gravity of 2.65 was used in the calculations.
6. There were no further anomalies in the samples or test method.
7. The data is provided in summary tables and plots.

Approved by: Taylor McKenzie Date: 8/10/06
Title: Lead Technician

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

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

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ36

prepared
by

Analytical Resources, Inc.

SIM SEMIVOLATILES

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-07-B
SAMPLE

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/14/06 11:56
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 46.7%
pH: 6.9

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	50	120	
91-57-6	2-Methylnaphthalene	50	45	J
90-12-0	1-Methylnaphthalene	50	30	J
208-96-8	Acenaphthylene	50	79	
83-32-9	Acenaphthene	50	300	
86-73-7	Fluorene	50	200	
85-01-8	Phenanthrene	50	1,800	
120-12-7	Anthracene	50	410	
206-44-0	Fluoranthene	50	4,500	
129-00-0	Pyrene	50	4,300	
56-55-3	Benzo(a)anthracene	50	2,200	
218-01-9	Chrysene	50	2,800	
205-99-2	Benzo(b)fluoranthene	50	2,800	
207-08-9	Benzo(k)fluoranthene	50	2,600	
50-32-8	Benzo(a)pyrene	50	3,100	
193-39-5	Indeno(1,2,3-cd)pyrene	50	2,000	
53-70-3	Dibenz(a,h)anthracene	50	620	
191-24-2	Benzo(g,h,i)perylene	50	2,400	
198-55-0	Perylene	50	1,000	
92-52-4	Biphenyl	50	< 50	U
581-42-0	2,6-Dimethylnaphthalene	50	< 50	U
832-69-9	1-Methylphenanthrene	50	140	
192-97-2	Benzo(e)pyrene	50	1,900	
2245-38-7	2,3,5-Trimethylnaphthalene	50	64	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracen	94.3%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-07-C
SAMPLE

Lab Sample ID: JQ36B
LIMS ID: 06-12973
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 10:03
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 45.2%
pH: 6.5

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**49**	**54**
91-57-6	2-Methylnaphthalene	49	< 49 U
90-12-0	1-Methylnaphthalene	49	< 49 U
208-96-8	Acenaphthylene	49	< 49 U
83-32-9	**Acenaphthene**	**49**	**200**
86-73-7	**Fluorene**	**49**	**110**
85-01-8	**Phenanthrene**	**49**	**860**
120-12-7	**Anthracene**	**49**	**190**
206-44-0	**Fluoranthene**	**49**	**1,800**
129-00-0	**Pyrene**	**49**	**1,700**
56-55-3	**Benzo(a)anthracene**	**49**	**1,200**
218-01-9	**Chrysene**	**49**	**1,400**
205-99-2	**Benzo(b)fluoranthene**	**49**	**1,400**
207-08-9	**Benzo(k)fluoranthene**	**49**	**1,300**
50-32-8	**Benzo(a)pyrene**	**49**	**1,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**49**	**990**
53-70-3	**Dibenz(a,h)anthracene**	**49**	**370**
191-24-2	**Benzo(g,h,i)perylene**	**49**	**1,200**
198-55-0	**Perylene**	**49**	**640**
92-52-4	Biphenyl	49	< 49 U
581-42-0	2,6-Dimethylnaphthalene	49	< 49 U
832-69-9	**1-Methylphenanthrene**	**49**	**59**
192-97-2	**Benzo(e)pyrene**	**49**	**940**
2245-38-7	2,3,5-Trimethylnaphthalene	49	< 49 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	54.7%
d14-Dibenzo(a,h)anthracen	68.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-07-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36C
LIMS ID: 06-12974
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 10:28
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 34.0%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**48**	**110**	
91-57-6	**2-Methylnaphthalene**	**48**	**63**	
90-12-0	**1-Methylnaphthalene**	**48**	**34**	**J**
208-96-8	**Acenaphthylene**	**48**	**29**	**J**
83-32-9	**Acenaphthene**	**48**	**520**	
86-73-7	**Fluorene**	**48**	**250**	
85-01-8	**Phenanthrene**	**48**	**2,000**	
120-12-7	**Anthracene**	**48**	**430**	
206-44-0	**Fluoranthene**	**48**	**4,500**	
129-00-0	**Pyrene**	**48**	**3,800**	
56-55-3	**Benzo(a)anthracene**	**48**	**2,600**	
218-01-9	**Chrysene**	**48**	**3,200**	
205-99-2	**Benzo(b)fluoranthene**	**48**	**3,400**	
207-08-9	**Benzo(k)fluoranthene**	**48**	**2,800**	
50-32-8	**Benzo(a)pyrene**	**48**	**3,400**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**48**	**2,100**	
53-70-3	**Dibenz(a,h)anthracene**	**48**	**700**	
191-24-2	**Benzo(g,h,i)perylene**	**48**	**2,400**	
198-55-0	**Perylene**	**49**	**1,100**	
92-52-4	Biphenyl	49	< 49	U
581-42-0	2,6-Dimethylnaphthalene	48	< 48	U
832-69-9	**1-Methylphenanthrene**	**48**	**140**	
192-97-2	**Benzo(e)pyrene**	**48**	**2,100**	
2245-38-7	2,3,5-Trimethylnaphthalene	48	< 48	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracen	91.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-07-E**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 11:28
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
pH: 6.7

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**4.8**	**7.3**	
91-57-6	**2-Methylnaphthalene**	**4.8**	**2.9**	**J**
90-12-0	1-Methylnaphthalene	4.8	< 4.8	U
208-96-8	**Acenaphthylene**	**4.8**	**2.9**	**J**
83-32-9	**Acenaphthene**	**4.8**	**21**	
86-73-7	**Fluorene**	**4.8**	**13**	
85-01-8	**Phenanthrene**	**4.8**	**90**	
120-12-7	**Anthracene**	**4.8**	**26**	
206-44-0	**Fluoranthene**	**4.8**	**250**	
129-00-0	**Pyrene**	**4.8**	**250**	
56-55-3	**Benzo(a)anthracene**	**4.8**	**140**	
218-01-9	**Chrysene**	**4.8**	**170**	
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**160**	
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**160**	
50-32-8	**Benzo(a)pyrene**	**4.8**	**190**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**120**	
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**39**	
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**140**	
198-55-0	**Perylene**	**4.9**	**64**	
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**	**8.7**	
192-97-2	**Benzo(e)pyrene**	**4.8**	**120**	
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	< 4.8	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	61.0%
d14-Dibenzo(a,h)anthracen	71.7%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-04-A
SAMPLE

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 12:42
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.32 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 34.9%
pH: 7.2

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**380**	**720**	
91-57-6	**2-Methylnaphthalene**	**380**	**460**	
90-12-0	**1-Methylnaphthalene**	**380**	**230**	**J**
208-96-8	Acenaphthylene	380	< 380	U
83-32-9	**Acenaphthene**	**380**	**4,600**	
86-73-7	**Fluorene**	**380**	**1,900**	
85-01-8	**Phenanthrene**	**380**	**18,000**	
120-12-7	**Anthracene**	**380**	**4,000**	
206-44-0	**Fluoranthene**	**380**	**41,000**	**E**
129-00-0	**Pyrene**	**380**	**35,000**	
56-55-3	**Benzo(a)anthracene**	**380**	**25,000**	
218-01-9	**Chrysene**	**380**	**31,000**	
205-99-2	**Benzo(b)fluoranthene**	**380**	**31,000**	
207-08-9	**Benzo(k)fluoranthene**	**380**	**27,000**	
50-32-8	**Benzo(a)pyrene**	**380**	**33,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**380**	**20,000**	
53-70-3	**Dibenz(a,h)anthracene**	**380**	**6,700**	
191-24-2	**Benzo(g,h,i)perylene**	**380**	**23,000**	
198-55-0	**Perylene**	**380**	**8,900**	
92-52-4	Biphenyl	380	< 380	U
581-42-0	2,6-Dimethylnaphthalene	380	< 380	U
832-69-9	**1-Methylphenanthrene**	**380**	**1,100**	
192-97-2	**Benzo(e)pyrene**	**380**	**19,000**	
2245-38-7	2,3,5-Trimethylnaphthalene	380	< 380	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	74.3%
d14-Dibenzo(a,h)anthracen	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-04-A**
Page 1 of 1 **DILUTION**

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:06
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.32 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 20.0
Percent Moisture: 34.9%
pH: 7.2

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**760**	**830**	
91-57-6	**2-Methylnaphthalene**	**760**	**530**	**J**
90-12-0	1-Methylnaphthalene	760	< 760	U
208-96-8	Acenaphthylene	760	< 760	U
83-32-9	**Acenaphthene**	**760**	**4,800**	
86-73-7	**Fluorene**	**760**	**2,300**	
85-01-8	**Phenanthrene**	**760**	**19,000**	
120-12-7	**Anthracene**	**760**	**4,200**	
206-44-0	**Fluoranthene**	**760**	**42,000**	
129-00-0	**Pyrene**	**760**	**36,000**	
56-55-3	**Benzo(a)anthracene**	**760**	**26,000**	
218-01-9	**Chrysene**	**760**	**32,000**	
205-99-2	**Benzo(b)fluoranthene**	**760**	**30,000**	
207-08-9	**Benzo(k)fluoranthene**	**760**	**28,000**	
50-32-8	**Benzo(a)pyrene**	**760**	**33,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**760**	**18,000**	
53-70-3	**Dibenz(a,h)anthracene**	**760**	**6,400**	
191-24-2	**Benzo(g,h,i)perylene**	**760**	**19,000**	
198-55-0	**Perylene**	**760**	**9,100**	
92-52-4	Biphenyl	760	< 760	U
581-42-0	2,6-Dimethylnaphthalene	760	< 760	U
832-69-9	**1-Methylphenanthrene**	**760**	**1,400**	
192-97-2	**Benzo(e)pyrene**	**760**	**19,000**	
2245-38-7	2,3,5-Trimethylnaphthalene	760	< 760	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracen	68.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-04-B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36F
LIMS ID: 06-12977
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:31
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.6%
pH: 6.4

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**5.0**	**13**	
91-57-6	**2-Methylnaphthalene**	**5.0**	**5.9**	
90-12-0	**1-Methylnaphthalene**	**5.0**	**3.0**	**J**
208-96-8	**Acenaphthylene**	**5.0**	**3.0**	**J**
83-32-9	**Acenaphthene**	**5.0**	**48**	
86-73-7	**Fluorene**	**5.0**	**21**	
85-01-8	**Phenanthrene**	**5.0**	**200**	
120-12-7	**Anthracene**	**5.0**	**44**	
206-44-0	**Fluoranthene**	**5.0**	**500**	**E**
129-00-0	**Pyrene**	**5.0**	**450**	
56-55-3	**Benzo(a)anthracene**	**5.0**	**300**	
218-01-9	**Chrysene**	**5.0**	**380**	
205-99-2	**Benzo(b)fluoranthene**	**5.0**	**380**	
207-08-9	**Benzo(k)fluoranthene**	**5.0**	**340**	
50-32-8	**Benzo(a)pyrene**	**5.0**	**400**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.0**	**210**	
53-70-3	**Dibenz(a,h)anthracene**	**5.0**	**75**	
191-24-2	**Benzo(g,h,i)perylene**	**5.0**	**230**	
198-55-0	**Perylene**	**5.0**	**120**	
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	5.4	< 5.4	Y
192-97-2	**Benzo(e)pyrene**	**5.0**	**240**	
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	< 5.0	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.7%
d14-Dibenzo(a,h)anthracen	67.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-04-B**
Page 1 of 1 **DILUTION**

Lab Sample ID: JQ36F
LIMS ID: 06-12977
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 13:07
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 22.6%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	50	< 50 U
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**	**45 J**
86-73-7	Fluorene	50	< 50 U
85-01-8	**Phenanthrene**	**50**	**220**
120-12-7	**Anthracene**	**50**	**54**
206-44-0	**Fluoranthene**	**50**	**500**
129-00-0	**Pyrene**	**50**	**490**
56-55-3	**Benzo(a)anthracene**	**50**	**310**
218-01-9	**Chrysene**	**50**	**380**
205-99-2	**Benzo(b)fluoranthene**	**50**	**430**
207-08-9	**Benzo(k)fluoranthene**	**50**	**310**
50-32-8	**Benzo(a)pyrene**	**50**	**420**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**50**	**270**
53-70-3	**Dibenz(a,h)anthracene**	**50**	**89**
191-24-2	**Benzo(g,h,i)perylene**	**50**	**330**
198-55-0	**Perylene**	**50**	**130**
92-52-4	Biphenyl	50	< 50 U
581-42-0	2,6-Dimethylnaphthalene	50	< 50 U
832-69-9	1-Methylphenanthrene	50	< 50 U
192-97-2	**Benzo(e)pyrene**	**50**	**250**
2245-38-7	2,3,5-Trimethylnaphthalene	50	< 50 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	66.7%
d14-Dibenzo(a,h)anthracen	82.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
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Sample ID: T4-S3-04-C
SAMPLE

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:56
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.78 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 29.3%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**28**	**76**	
91-57-6	**2-Methylnaphthalene**	**28**	**42**	
90-12-0	**1-Methylnaphthalene**	**28**	**20**	**J**
208-96-8	Acenaphthylene	28	< 28	U
83-32-9	**Acenaphthene**	**28**	**370**	
86-73-7	**Fluorene**	**28**	**160**	
85-01-8	**Phenanthrene**	**28**	**1,400**	
120-12-7	**Anthracene**	**28**	**320**	
206-44-0	**Fluoranthene**	**28**	**3,200**	**E**
129-00-0	**Pyrene**	**28**	**3,000**	**E**
56-55-3	**Benzo(a)anthracene**	**28**	**2,200**	
218-01-9	**Chrysene**	**28**	**2,600**	
205-99-2	**Benzo(b)fluoranthene**	**28**	**2,500**	
207-08-9	**Benzo(k)fluoranthene**	**28**	**2,400**	
50-32-8	**Benzo(a)pyrene**	**28**	**2,800**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**28**	**1,500**	
53-70-3	**Dibenz(a,h)anthracene**	**28**	**560**	
191-24-2	**Benzo(g,h,i)perylene**	**28**	**1,600**	
198-55-0	**Perylene**	**28**	**840**	
92-52-4	Biphenyl	28	< 28	U
581-42-0	2,6-Dimethylnaphthalene	28	< 28	U
832-69-9	**1-Methylphenanthrene**	**28**	**100**	
192-97-2	**Benzo(e)pyrene**	**28**	**1,700**	
2245-38-7	2,3,5-Trimethylnaphthalene	28	< 28	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracen	62.7%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
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Sample ID: T4-S3-04-C
DILUTION

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 13:32
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.78 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 29.3%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	280	< 280 U
91-57-6	2-Methylnaphthalene	280	< 280 U
90-12-0	1-Methylnaphthalene	280	< 280 U
208-96-8	Acenaphthylene	280	< 280 U
83-32-9	**Acenaphthene**	**280**	**360**
86-73-7	**Fluorene**	**280**	**200 J**
85-01-8	**Phenanthrene**	**280**	**1,400**
120-12-7	**Anthracene**	**280**	**310**
206-44-0	**Fluoranthene**	**280**	**3,400**
129-00-0	**Pyrene**	**280**	**3,000**
56-55-3	**Benzo(a)anthracene**	**280**	**2,100**
218-01-9	**Chrysene**	**280**	**2,700**
205-99-2	**Benzo(b)fluoranthene**	**280**	**2,500**
207-08-9	**Benzo(k)fluoranthene**	**280**	**2,400**
50-32-8	**Benzo(a)pyrene**	**280**	**2,700**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**280**	**1,700**
53-70-3	**Dibenz(a,h)anthracene**	**280**	**670**
191-24-2	**Benzo(g,h,i)perylene**	**280**	**2,000**
198-55-0	**Perylene**	**280**	**870**
92-52-4	Biphenyl	280	< 280 U
581-42-0	2,6-Dimethylnaphthalene	280	< 280 U
832-69-9	1-Methylphenanthrene	280	< 280 U
192-97-2	**Benzo(e)pyrene**	**280**	**1,700**
2245-38-7	2,3,5-Trimethylnaphthalene	280	< 280 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.0%
d14-Dibenzo(a,h)anthracen	67.3%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-04-D
SAMPLE

Lab Sample ID: JQ36H
LIMS ID: 06-12979
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 18:21
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.3%
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**6.4**
91-57-6	**2-Methylnaphthalene**	**4.9**	**3.9 J**
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**	**29**
86-73-7	**Fluorene**	**4.9**	**18**
85-01-8	**Phenanthrene**	**4.9**	**130**
120-12-7	**Anthracene**	**4.9**	**25**
206-44-0	**Fluoranthene**	**4.9**	**250**
129-00-0	**Pyrene**	**4.9**	**220**
56-55-3	**Benzo(a)anthracene**	**4.9**	**160**
218-01-9	**Chrysene**	**4.9**	**200**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**180**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**190**
50-32-8	**Benzo(a)pyrene**	**4.9**	**200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**120**
53-70-3	**Dibenz(a,h)anthracene**	**4.9**	**48**
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**140**
198-55-0	**Perylene**	**4.9**	**61**
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**	**7.8**
192-97-2	**Benzo(e)pyrene**	**4.9**	**130**
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracen	68.7%

ANALYTICAL RESOURCES INCORPORATED

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Sample ID: T4-WB-01
SAMPLE

Lab Sample ID: JQ36I
LIMS ID: 06-12980
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 18:45
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 56.7%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.9	20
91-57-6	2-Methylnaphthalene	4.9	11
90-12-0	1-Methylnaphthalene	4.9	5.9
208-96-8	Acenaphthylene	4.9	13
83-32-9	Acenaphthene	4.9	41
86-73-7	Fluorene	4.9	27
85-01-8	Phenanthrene	4.9	240
120-12-7	Anthracene	4.9	68
206-44-0	Fluoranthene	4.9	570 E
129-00-0	Pyrene	4.9	500 E
56-55-3	Benzo(a)anthracene	4.9	280
218-01-9	Chrysene	4.9	390
205-99-2	Benzo(b)fluoranthene	4.9	420
207-08-9	Benzo(k)fluoranthene	4.9	320
50-32-8	Benzo(a)pyrene	4.9	400
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	200
53-70-3	Dibenz(a,h)anthracene	4.9	71
191-24-2	Benzo(g,h,i)perylene	4.9	210
198-55-0	Perylene	4.9	160
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	6.4
832-69-9	1-Methylphenanthrene	4.9	16
192-97-2	Benzo(e)pyrene	4.9	250
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	5.4

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	52.0%
d14-Dibenzo(a,h)anthracen	51.7%

ANALYTICAL RESOURCES INCORPORATED

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Sample ID: T4-WB-01
DILUTION

Lab Sample ID: JQ36I
LIMS ID: 06-12980
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 14:21
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 56.7%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	49	< 49 U
91-57-6	2-Methylnaphthalene	49	< 49 U
90-12-0	1-Methylnaphthalene	49	< 49 U
208-96-8	Acenaphthylene	49	< 49 U
83-32-9	**Acenaphthene**	**49**	**44 J**
86-73-7	Fluorene	49	< 49 U
85-01-8	**Phenanthrene**	**49**	**240**
120-12-7	**Anthracene**	**49**	**74**
206-44-0	**Fluoranthene**	**49**	**560**
129-00-0	**Pyrene**	**49**	**550**
56-55-3	**Benzo(a)anthracene**	**49**	**280**
218-01-9	**Chrysene**	**49**	**410**
205-99-2	**Benzo(b)fluoranthene**	**49**	**390**
207-08-9	**Benzo(k)fluoranthene**	**49**	**320**
50-32-8	**Benzo(a)pyrene**	**49**	**390**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**49**	**280**
53-70-3	**Dibenz(a,h)anthracene**	**49**	**78**
191-24-2	**Benzo(g,h,i)perylene**	**49**	**330**
198-55-0	**Perylene**	**49**	**170**
92-52-4	Biphenyl	49	< 49 U
581-42-0	2,6-Dimethylnaphthalene	49	< 49 U
832-69-9	1-Methylphenanthrene	49	< 49 U
192-97-2	**Benzo(e)pyrene**	**49**	**260**
2245-38-7	2,3,5-Trimethylnaphthalene	49	< 49 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	48.7%
d14-Dibenzo(a,h)anthracen	69.3%

ANALYTICAL RESOURCES INCORPORATED

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Sample ID: T4-WB-02
SAMPLE

Lab Sample ID: JQ36J
LIMS ID: 06-12981
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 19:10
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 40.8%
pH: 6.5

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	5.0	12	
91-57-6	2-Methylnaphthalene	5.0	5.4	
90-12-0	1-Methylnaphthalene	5.0	4.0	J
208-96-8	Acenaphthylene	5.0	13	
83-32-9	Acenaphthene	5.0	8.4	
86-73-7	Fluorene	5.0	8.9	
85-01-8	Phenanthrene	5.0	96	
120-12-7	Anthracene	5.0	25	
206-44-0	Fluoranthene	5.0	280	
129-00-0	Pyrene	5.0	290	
56-55-3	Benzo(a)anthracene	5.0	120	
218-01-9	Chrysene	5.0	190	
205-99-2	Benzo(b)fluoranthene	5.0	160	
207-08-9	Benzo(k)fluoranthene	5.0	150	
50-32-8	Benzo(a)pyrene	5.0	190	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	81	
53-70-3	Dibenz(a,h)anthracene	5.0	20	
191-24-2	Benzo(g,h,i)perylene	5.0	94	
198-55-0	Perylene	5.0	71	
92-52-4	Biphenyl	5.0	< 5.0	U
581-42-0	2,6-Dimethylnaphthalene	5.0	5.0	
832-69-9	1-Methylphenanthrene	5.0	10	
192-97-2	Benzo(e)pyrene	5.0	120	
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	12	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracen	48.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
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Sample ID: T4-WB-03
SAMPLE

Lab Sample ID: JQ36K
LIMS ID: 06-12982
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 19:35
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 55.1%
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	25
91-57-6	2-Methylnaphthalene	5.0	12
90-12-0	1-Methylnaphthalene	5.0	5.9
208-96-8	Acenaphthylene	5.0	15
83-32-9	Acenaphthene	5.0	32
86-73-7	Fluorene	5.0	25
85-01-8	Phenanthrene	5.0	190
120-12-7	Anthracene	5.0	79
206-44-0	Fluoranthene	5.0	460
129-00-0	Pyrene	5.0	440
56-55-3	Benzo(a)anthracene	5.0	230
218-01-9	Chrysene	5.0	330
205-99-2	Benzo(b)fluoranthene	5.0	300
207-08-9	Benzo(k)fluoranthene	5.0	260
50-32-8	Benzo(a)pyrene	5.0	310
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	120
53-70-3	Dibenz(a,h)anthracene	5.0	42
191-24-2	Benzo(g,h,i)perylene	5.0	140
198-55-0	Perylene	5.0	150
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	6.9
832-69-9	1-Methylphenanthrene	5.0	16
192-97-2	Benzo(e)pyrene	5.0	200
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	5.0

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	54.3%
d14-Dibenzo(a,h)anthracen	44.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
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Sample ID: T4-WB-04
SAMPLE

Lab Sample ID: JQ36L
LIMS ID: 06-12983
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 20:00
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 53.4%
pH: 6.5

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**5.0**	**20**
91-57-6	**2-Methylnaphthalene**	**5.0**	**9.0**
90-12-0	**1-Methylnaphthalene**	**5.0**	**5.0**
208-96-8	**Acenaphthylene**	**5.0**	**14**
83-32-9	**Acenaphthene**	**5.0**	**22**
86-73-7	**Fluorene**	**5.0**	**18**
85-01-8	**Phenanthrene**	**5.0**	**120**
120-12-7	**Anthracene**	**5.0**	**48**
206-44-0	**Fluoranthene**	**5.0**	**290**
129-00-0	**Pyrene**	**5.0**	**280**
56-55-3	**Benzo(a)anthracene**	**5.0**	**130**
218-01-9	**Chrysene**	**5.0**	**190**
205-99-2	**Benzo(b)fluoranthene**	**5.0**	**150**
207-08-9	**Benzo(k)fluoranthene**	**5.0**	**160**
50-32-8	**Benzo(a)pyrene**	**5.0**	**160**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.0**	**70**
53-70-3	**Dibenz(a,h)anthracene**	**5.0**	**23**
191-24-2	**Benzo(g,h,i)perylene**	**5.0**	**79**
198-55-0	**Perylene**	**5.0**	**88**
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	**2,6-Dimethylnaphthalene**	**5.0**	**6.5**
832-69-9	**1-Methylphenanthrene**	**5.0**	**12**
192-97-2	**Benzo(e)pyrene**	**5.0**	**110**
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	49.3%
d14-Dibenzo(a,h)anthracen	35.3%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	MNP	DBA	TOT OUT
T4-S3-07-B	70.3%	94.3%	0
T4-S3-07-C	54.7%	68.3%	0
T4-S3-07-D	70.7%	91.0%	0
MB-080306	64.7%	87.0%	0
LCS-080306	70.0%	91.0%	0
T4-S3-07-E	61.0%	71.7%	0
T4-S3-07-E MS	63.0%	77.3%	0
T4-S3-07-E MSD	65.3%	73.7%	0
T4-S3-04-A	74.3%	102%	0
T4-S3-04-A DL	73.3%	68.0%	0
T4-S3-04-B	63.7%	67.3%	0
T4-S3-04-B DL	66.7%	82.0%	0
T4-S3-04-C	59.0%	62.7%	0
T4-S3-04-C DL	60.0%	67.3%	0
T4-S3-04-D	62.3%	68.7%	0
T4-WB-01	52.0%	51.7%	0
T4-WB-01 DL	48.7%	69.3%	0
T4-WB-02	59.0%	48.0%	0
T4-WB-03	54.3%	44.0%	0
T4-WB-04	49.3%	35.3%	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: 06-12972 to 06-12983

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-07-E
MATRIX SPIKE

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted MS/MSD: 08/03/06

Date Analyzed MS: 08/09/06 11:53
MSD: 08/09/06 12:17
Instrument/Analyst MS: NT5/VTS
MSD: Und: 7/VTS

Sample Amount MS: 10.3 g-dry-wt
MSD: 10.3 g-dry-wt
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenanthrene	90.3	185	146	64.9%	256	146	113%	32.2%
Chrysene	170	270	146	68.5%	366	146	134%	30.2%
Benzo(k)fluoranthene	159	262	146	70.5%	339	146	123%	25.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
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Sample ID: T4-S3-07-E
MATRIX SPIKE

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 11:53
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
pH: 6.7

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**4.8**	**4.8**	
91-57-6	**2-Methylnaphthalene**	**4.8**	**2.9**	**J**
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**	**20**	
86-73-7	**Fluorene**	**4.8**	**9.2**	
85-01-8	Phenanthrene	4.8	---	
120-12-7	**Anthracene**	**4.8**	**20**	
206-44-0	**Fluoranthene**	**4.8**	**180**	
129-00-0	**Pyrene**	**4.8**	**170**	
56-55-3	**Benzo(a)anthracene**	**4.8**	**120**	
218-01-9	Chrysene	4.8	---	
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**140**	
207-08-9	Benzo(k)fluoranthene	4.8	---	
50-32-8	**Benzo(a)pyrene**	**4.8**	**160**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**110**	
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**35**	
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**130**	
198-55-0	**Perylene**	**4.9**	**58**	
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**	**6.3**	
192-97-2	**Benzo(e)pyrene**	**4.8**	**100**	
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	< 4.8	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracen	77.3%

ANALYTICAL RESOURCES INCORPORATED

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Sample ID: T4-S3-07-E
MATRIX SPIKE DUPLICATE

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 12:17
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
pH: 6.7

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**4.8**	**9.7**	
91-57-6	**2-Methylnaphthalene**	**4.8**	**5.3**	
90-12-0	**1-Methylnaphthalene**	**4.8**	**2.9**	**J**
208-96-8	**Acenaphthylene**	**4.8**	**2.4**	**J**
83-32-9	**Acenaphthene**	**4.8**	**34**	
86-73-7	**Fluorene**	**4.8**	**18**	
85-01-8	Phenanthrene	4.8	---	
120-12-7	**Anthracene**	**4.8**	**33**	
206-44-0	**Fluoranthene**	**4.8**	**320**	
129-00-0	**Pyrene**	**4.8**	**280**	
56-55-3	**Benzo(a)anthracene**	**4.8**	**200**	
218-01-9	Chrysene	4.8	---	
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**270**	
207-08-9	Benzo(k)fluoranthene	4.8	---	
50-32-8	**Benzo(a)pyrene**	**4.8**	**270**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**170**	
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**55**	
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**200**	
198-55-0	**Perylene**	**4.9**	**92**	
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**	**6.3**	
192-97-2	**Benzo(e)pyrene**	**4.8**	**170**	
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	< 4.8	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.3%
d14-Dibenzo(a,h)anthracen	73.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
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Sample ID: LCS-080306
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080306
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/03/06
Date Analyzed LCS: 08/09/06 09:13
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	99.0	150	66.0%
1-Methylnaphthalene	92.5	150	61.7%
Acenaphthylene	102	150	68.0%
Acenaphthene	106	150	70.7%
Fluorene	106	150	70.7%
Phenanthrene	112	150	74.7%
Anthracene	104	150	69.3%
Fluoranthene	105	150	70.0%
Pyrene	123	150	82.0%
Benzo(a)anthracene	111	150	74.0%
Chrysene	120	150	80.0%
Benzo(b)fluoranthene	122	150	81.3%
Benzo(k)fluoranthene	116	150	77.3%
Benzo(a)pyrene	102	150	68.0%
Indeno(1,2,3-cd)pyrene	124	150	82.7%
Dibenz(a,h)anthracene	130	150	86.7%
Benzo(g,h,i)perylene	138	150	92.0%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracen	91.0%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JQ36MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JQ36 Project: T4 EARLY ACTION

Lab File ID: JQ36MB Date Extracted: 08/03/06

Instrument ID: NT1 Date Analyzed: 08/09/06

Matrix: SOLID Time Analyzed: 0849

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JQ36LCSS1	JQ36LCSS1	JQ36SB	08/09/06
02	T4-S3-07-C	JQ36B	JQ36B	08/09/06
03	T4-S3-07-D	JQ36C	JQ36C	08/09/06
04	T4-S3-07-E	JQ36D	JQ36D2	08/09/06
05	T4-S3-07-E MS	JQ36DMS	JQ36DMS	08/09/06
06	T4-S3-07-E MSD	JQ36DMSD	JQ36DMSD	08/09/06
07	T4-S3-04-A	JQ36E	JQ36E	08/09/06
08	T4-S3-04-B	JQ36FDL	JQ36F	08/09/06
09	T4-S3-04-C	JQ36GDL	JQ36G	08/09/06
10	T4-WB-01	JQ36IDL	JQ36I	08/09/06
11	T4-S3-04-A	JQ36EDL	JQ36EDL	08/10/06
12	T4-S3-04-B	JQ36F	JQ36F	08/10/06
13	T4-S3-04-C	JQ36G	JQ36G	08/10/06
14	T4-S3-04-D	JQ36H	JQ36H	08/10/06
15	T4-WB-01	JQ36I	JQ36I	08/10/06
16	T4-WB-02	JQ36J	JQ36J	08/10/06
17	T4-WB-03	JQ36K	JQ36K	08/10/06
18	T4-WB-04	JQ36L	JQ36L	08/10/06
19	T4-S3-07-B	JQ36A	JQ36ADL	08/14/06
20				
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28				
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30				

COMMENTS:

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: MB-080306
METHOD BLANK

Lab Sample ID: MB-080306
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 08:49
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

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	64.7%
d14-Dibenzo(a,h)anthracen	87.0%

SEMIVOLATILE ORGANICS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-07-B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 13:58
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 46.7%
pH: 6.9

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**	**35 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**40**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	68.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-07-C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36B
LIMS ID: 06-12973
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 14:31
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 45.2%
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**	**32 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**24**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	51.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-07-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36C
LIMS ID: 06-12974
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 15:04
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 34.0%
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**	**22 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**60**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	64.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-07-E**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 15:41
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
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**	**36 B**
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	78.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-04-A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 17:20
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 34.9%
pH: 7.2

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

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	85.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-04-B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36F
LIMS ID: 06-12977
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 15:38
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.6%
pH: 6.4

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**	**30 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**16 J**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	74.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-04-C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 16:11
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 35.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 29.3%
pH: 6.8

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	28	< 28 U
84-66-2	Diethylphthalate	28	< 28 U
84-74-2	**Di-n-Butylphthalate**	**28**	**38 B**
85-68-7	Butylbenzylphthalate	28	< 28 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**28**	**34**
117-84-0	Di-n-Octyl phthalate	28	< 28 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	68.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-04-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36H
LIMS ID: 06-12979
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 18:59
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 21.3%
pH: 6.3

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**	**26 B**
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	69.2%

ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JQ36I
LIMS ID: 06-12980
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 19:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 56.7%
pH: 7.1

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**	**22 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**65**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	40.8%

ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JQ36J
LIMS ID: 06-12981
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 20:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 40.8%
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**	**29 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**60**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	59.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-WB-03**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36K
LIMS ID: 06-12982
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 12:52
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 55.1%
pH: 6.9

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**	**24 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**90**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	49.2%

0050

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-WB-04**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36L
LIMS ID: 06-12983
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 13:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 53.4%
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**	**30 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**79**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	54.4%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	TPH	TOT OUT
T4-S3-07-B	68.4%	0
T4-S3-07-C	51.2%	0
T4-S3-07-D	64.0%	0
MB-080306	79.6%	0
LCS-080306	78.4%	0
T4-S3-07-E	78.0%	0
T4-S3-07-E MS	68.8%	0
T4-S3-07-E MSD	71.2%	0
T4-S3-04-A	85.8%	0
T4-S3-04-B	74.4%	0
T4-S3-04-C	68.0%	0
T4-S3-04-D	69.2%	0
T4-WB-01	40.8%	0
T4-WB-02	59.2%	0
T4-WB-03	49.2%	0
T4-WB-04	54.4%	0

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

Prep Method: SW3550B
Log Number Range: 06-12972 to 06-12983

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-07-E**
Page 1 of 1 **MS/MSD**

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted MS/MSD: 08/03/06

Sample Amount MS: 50.4 g-dry-wt
MSD: 50.6 g-dry-wt

Date Analyzed MS: 08/11/06 16:14
MSD: 08/11/06 16:47

Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL

Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: YES

Percent Moisture: 17.6%
pH: 6.7

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Di-n-Octyl phthalate	< 19.7	301	496	60.7%	319	494	64.6%	5.8%

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-S3-07-E**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 16:14
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
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**	**36 B**
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	68.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-07-E**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 16:47
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
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**	**42 B**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**13 J**
117-84-0	Di-n-Octyl phthalate	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	71.2%

0055

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: LCS-080306**
Page 1 of 1 **LAB CONTROL**

Lab Sample ID: LCS-080306
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 13:28
Instrument/Analyst: NT6/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	428	500	85.6%
Diethylphthalate	460	500	92.0%
Di-n-Butylphthalate	516	500	103%
Butylbenzylphthalate	486	500	97.2%
bis(2-Ethylhexyl)phthalate	441	500	88.2%
Di-n-Octyl phthalate	390	500	78.0%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	78.4%

Results reported in µg/kg

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JQ36MBS1

Lab Name: ANALYTICAL RESOURCES, INC
Client: ANCHOR

ARI Job No: JQ36
Project: T4 EARLY ACTION

Lab File ID: JQ36MB
Date Extracted: 08/03/06

Instrument ID: NT6
Date Analyzed: 08/11/06

Matrix: SOLID
Time Analyzed: 1255

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JQ36LCSS1	JQ36LCSS1	JQ36SB	08/11/06
02	T4-S3-07-E	JQ36D	JQ36D	08/11/06
03	T4-S3-07-E MS	JQ36DMS	JQ36DMS	08/11/06
04	T4-S3-07-E MSD	JQ36DMSD	JQ36DMD	08/11/06
05	T4-S3-04-A	JQ36E	JQ36EDL	08/11/06
06	T4-S3-04-D	JQ36H	JQ36H	08/11/06
07	T4-WB-01	JQ36I	JQ36I	08/11/06
08	T4-WB-02	JQ36J	JQ36J	08/11/06
09	T4-WB-03	JQ36K	JQ36K2	08/12/06
10	T4-WB-04	JQ36L	JQ36L2	08/12/06
11	T4-S3-07-B	JQ36A	JQ36A	08/12/06
12	T4-S3-07-C	JQ36B	JQ36B	08/12/06
13	T4-S3-07-D	JQ36C	JQ36C	08/12/06
14	T4-S3-04-B	JQ36F	JQ36F	08/12/06
15	T4-S3-04-C	JQ36G	JQ36G	08/12/06
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: MB-080306**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-080306
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 12:55
Instrument/Analyst: NT6/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**	**35**
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	79.6%

NWTPH-Dx

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 2
Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
JQ36A	T4-S3-07-B	08/01/06	08/02/06	5.0	**Diesel**	**110**
06-12972	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**330**
					o-Terphenyl	66.7%
JQ36B	T4-S3-07-C	08/01/06	08/02/06	1.0	**Diesel**	**88**
06-12973	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**290**
					o-Terphenyl	74.7%
JQ36C	T4-S3-07-D	08/01/06	08/02/06	5.0	**Diesel**	**130**
06-12974	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**370**
					o-Terphenyl	72.6%
JQ36D	T4-S3-07-E	08/01/06	08/02/06	1.0	**Diesel**	**9.2**
06-12975	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**25**
					o-Terphenyl	76.7%
MB-080106	Method Blank	08/01/06	08/02/06	1.0	Diesel	< 5.0 U
06-12976	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	80.9%
JQ36E	T4-S3-04-A	08/01/06	08/02/06	5.0	**Diesel**	**550**
06-12976	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**1,400**
					o-Terphenyl	78.3%
JQ36F	T4-S3-04-B	08/01/06	08/02/06	1.0	**Diesel**	**36**
06-12977	HC ID: **DRO/MOTOR OIL**		FID3A		**Motor Oil**	**220**
					o-Terphenyl	57.8%
JQ36G	T4-S3-04-C	08/01/06	08/02/06	5.0	**Diesel**	**96**
06-12978	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**200**
					o-Terphenyl	81.3%
JQ36H	T4-S3-04-D	08/01/06	08/02/06	1.0	**Diesel**	**8.1**
06-12979	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**15**
					o-Terphenyl	79.3%
JQ36I	T4-WB-01	08/01/06	08/02/06	1.0	**Diesel**	**32**
06-12980	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**130**
					o-Terphenyl	78.0%
JQ36J	T4-WB-02	08/01/06	08/02/06	1.0	**Diesel**	**22**
06-12981	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**110**
					o-Terphenyl	68.9%
JQ36K	T4-WB-03	08/01/06	08/02/06	1.0	**Diesel**	**32**
06-12982	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**140**
					o-Terphenyl	75.8%
JQ36L	T4-WB-04	08/01/06	08/02/06	1.0	**Diesel**	**31**
06-12983	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**150**
					o-Terphenyl	75.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	OTER	TOT OUT
T4-S3-07-B	66.7%	0
T4-S3-07-C	74.7%	0
T4-S3-07-D	72.6%	0
T4-S3-07-E	76.7%	0
080106MBS	80.9%	0
080106LCS	81.3%	0
T4-S3-04-A	78.3%	0
T4-S3-04-A	MS 57.8%	0
T4-S3-04-A	MSD57.0%	0
T4-S3-04-B	57.8%	0
T4-S3-04-C	81.3%	0
T4-S3-04-D	79.3%	0
T4-WB-01	78.0%	0
T4-WB-02	68.9%	0
T4-WB-03	75.8%	0
T4-WB-04	75.8%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(56-108)	(38-118)

Prep Method: SW3550B
Log Number Range: 06-12972 to 06-12983

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: T4-S3-04-A
MS/MSD

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/03/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted MS/MSD: 08/01/06

Date Analyzed MS: 08/02/06 11:34
MSD: 08/02/06 11:49
Instrument/Analyst MS: FID3A/JGR
MSD: FID3A/JGR

Sample Amount MS: 6.54 g-dry-wt
MSD: 6.51 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 5.00
MSD: 5.00
Percent Moisture: 34.9%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	547	457	229	NA	449	230	NA	1.8%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	57.8%	57.0%

Results reported in mg/kg
NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-080106
LAB CONTROL

Lab Sample ID: LCS-080106
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/03/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/01/06
Date Analyzed: 08/02/06 07:26
Instrument/Analyst: FID3A/JGR

Sample Amount: 10.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	118	150	78.7%

TPHD Surrogate Recovery

o-Terphenyl	81.3%

Results reported in mg/kg

TPH METHOD BLANK SUMMARY

BLANK NO.: JQ36MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIR

SDG No.: JQ36 Project No.: T4 EARLY ACTION

Date Extracted: 10/06/03 Matrix: SOIL

Date Analyzed : 08/02/06 Instrument ID : FID3A

Time Analyzed : 0711

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	JQ36LCSS1	JQ36LCSS1	08/02/06
02	T4-S3-07-B	JQ36A	08/02/06
03	T4-S3-07-C	JQ36B	08/02/06
04	T4-S3-07-D	JQ36C	08/02/06
05	T4-S3-07-E	JQ36D	08/02/06
06	T4-S3-04-A	JQ36E	08/02/06
07	T4-S3-04-A M	JQ36EMS	08/02/06
08	T4-S3-04-A M	JQ36EMSD	08/02/06
09	T4-S3-04-B	JQ36F	08/02/06
10	T4-S3-04-C	JQ36G	08/02/06
11	T4-S3-04-D	JQ36H	08/02/06
12	T4-WB-01	JQ36I	08/02/06
13	T4-WB-02	JQ36J	08/02/06
14	T4-WB-03	JQ36K	08/02/06
15	T4-WB-04	JQ36L	08/02/06

FORM IV TPH

TOTAL METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-07-B
SAMPLE

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 52.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	4	57	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	1	212	

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-S3-07-B
DUPLICATE

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Lead	6010B	57	66	14.6%	+/- 20%	
Zinc	6010B	212	206	2.9%	+/- 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-S3-07-B
MATRIX SPIKE

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Lead	6010B	57	395	376	89.9%	
Zinc	6010B	212	288	94.1	80.8%	

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
Page 1 of 1

Sample ID: T4-S3-07-C
SAMPLE

Lab Sample ID: JQ36B
LIMS ID: 06-12973
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 54.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	3	53	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	1	156	

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-S3-07-D
SAMPLE

Lab Sample ID: JQ36C
LIMS ID: 06-12974
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 64.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	3	**81**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	0.8	**217**	

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-S3-07-E
SAMPLE

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 79.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	2	**14**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	0.7	**57.5**	

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-S3-04-A
SAMPLE

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 57.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	3	**435**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	1	**460**	

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-S3-04-B
SAMPLE

Lab Sample ID: JQ36F
LIMS ID: 06-12977
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 71.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	3	**206**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	0.8	**252**	

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-S3-04-C
SAMPLE

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 75.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	3	**276**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	0.8	**343**	

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-S3-04-D
SAMPLE

Lab Sample ID: JQ36H
LIMS ID: 06-12979
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 83.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	2	**111**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	0.7	**141**	

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-WB-01
SAMPLE

Lab Sample ID: JQ36I
LIMS ID: 06-12980
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 40.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	5	**30**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	1	**129**	

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-WB-02
SAMPLE

Lab Sample ID: JQ36J
LIMS ID: 06-12981
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 51.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	4	**35**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	1	**141**	

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-WB-03
SAMPLE

Lab Sample ID: JQ36K
LIMS ID: 06-12982
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 42.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	5	**24**	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	1	**127**	

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-WB-04
SAMPLE

Lab Sample ID: JQ36L
LIMS ID: 06-12983
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 44.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/31/06	6010B	08/02/06	**7439-92-1**	**Lead**	4	20	
3050B	07/31/06	6010B	08/02/06	**7440-66-6**	**Zinc**	1	112	

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: JQ36LCS
LIMS ID: 06-12973
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 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	203	200	102%	
Zinc	6010B	52.0	50.0	104%	

Reported in mg/kg-dry

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: JQ36MB
LIMS ID: 06-12973
Matrix: Sediment
Data Release Authorized:
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental
Project: T4 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	07/31/06	6010B	08/02/06	7439-92-1	Lead	2	2	U
3050B	07/31/06	6010B	08/02/06	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-B
ARI ID: 06-12972 JQ36A

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	51.60
Total Organic Carbon	07/27/06 072706#1	Plumb,1981	Percent	0.020	1.66

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-C
ARI ID: 06-12973 JQ36B

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	55.70
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.07

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-D
ARI ID: 06-12974 JQ36C

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	66.60
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.71

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-E
ARI ID: 06-12975 JQ36D

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	82.30
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	0.442

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-A
ARI ID: 06-12976 JQ36E

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	58.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.42

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-B
ARI ID: 06-12977 JQ36F

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	72.30
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	0.402

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-C
ARI ID: 06-12978 JQ36G

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	77.50
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.27

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-D
ARI ID: 06-12979 JQ36H

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	82.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	0.232

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-01
ARI ID: 06-12980 JQ36I

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	40.30
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.81

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-02
ARI ID: 06-12981 JQ36J

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	52.70
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.72

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-03
ARI ID: 06-12982 JQ36K

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	43.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.05

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-04
ARI ID: 06-12983 JQ36L

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#1	EPA 160.3	Percent	0.01	44.30
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.69

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	07/24/06	Percent	< 0.01 U
Total Organic Carbon	07/26/06	Percent	< 0.020 U
	07/27/06		< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	07/26/06	Percent	0.524	0.500	104.8%
	07/27/06		0.498	0.500	99.6%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	07/26/06	Percent	2.97	3.35	88.7%
NIST #8704	07/27/06		3.16	3.35	94.3%

REPLICATE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: JQ36A Client ID: T4-S3-07-B					
Total Solids	07/24/06	Percent	51.60	52.10 52.10	0.6%
Total Organic Carbon	07/27/06	Percent	1.66	1.84 1.60	7.3%

MS/MSD RESULTS-CONVENTIONALS
JQ36-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: JQ36A Client ID: T4-S3-07-B						
Total Organic Carbon	07/27/06	Percent	1.66	3.61	1.79	109.1%

GRAINSIZE

ANALYTICAL RESOURCES INCORPORATED

PROJECT:	Anchor Environmental	Project No.:	T4 Early Action, 05033
ARI Triplicate Sample ID:	JQ36 K	Batch No.:	JQ36 -01
Client Triplicate Sample ID:	T4-WB-03	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-WB-03	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	99.1	98.6	92.7	66.1	53.2	41.1
T4-WB-03	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.1	98.5	92.7	64.3	50.8	39.7
T4-WB-03	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	99.0	98.4	93.0	65.5	50.1	38.0
AVE	100.00	100.00	100.00	100.00	100.00	100.00	99.94	99.53	99.08	98.46	92.79	65.29	51.37	39.59
STDEV	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.08	0.11	0.20	0.92	1.60	1.55
%RSD	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.08	0.11	0.22	1.40	3.12	3.90

This Triplicate applies to the Batch Containing the Following Samples

Sample ID	Date Sampled	Date Set up	Date Started	Date Complete	Data Qualifiers
T4-WB-03	7/20/06	7/31/06	8/2/06	8/7/06	
T4-WB-03	7/20/06	7/31/06	8/2/06	8/7/06	
T4-WB-03	7/20/06	7/31/06	8/2/06	8/7/06	
T4-S3-07-B	7/20/06	7/31/06	8/2/06	8/7/06	
T4-S3-07-C	7/20/06	7/31/06	8/2/06	8/7/06	
T4-S3-07-D	7/20/06	8/1/06	8/2/06	8/7/06	
T4-S3-07-E	7/20/06	7/31/06	8/2/06	8/7/06	
T4-S3-04-A	7/20/06	8/1/06	8/2/06	8/7/06	
T4-S3-04-B	7/20/06	7/31/06	8/2/06	8/7/06	
T4-S3-04-C	7/20/06	7/31/06	8/2/06	8/7/06	
T4-S3-04-D	7/20/06	7/31/06	8/2/06	8/7/06	
T4-WB-01	7/20/06	7/31/06	8/2/06	8/7/06	
T4-WB-02	7/20/06	8/1/06	8/2/06	8/7/06	
T4-WB-04	7/20/06	7/31/06	8/2/06	8/7/06	

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T4 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-WB-03	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	99.1	98.6	92.7	66.1	53.2	41.1	35.5	28.2	19.3	13.7
T4-WB-03	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.1	98.5	92.7	64.3	50.8	39.7	31.7	27.0	17.5	11.9
T4-WB-03	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	99.0	98.4	93.0	65.5	50.1	38.0	30.7	25.1	16.2	10.5
T4-S3-07-B	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.9	95.8	93.6	86.1	62.5	55.5	43.0	35.2	28.1	18.7	13.3
T4-S3-07-C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.7	95.6	94.3	87.7	71.2	59.8	49.8	40.6	32.9	20.7	13.8
T4-S3-07-D	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.0	84.5	62.2	56.3	52.3	44.6	36.9	29.1	23.4	19.1	12.0	7.8
T4-S3-07-E	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.5	65.2	18.0	7.1	5.5	4.4	4.0	3.5	2.6	2.2	1.3	1.3
T4-S3-04-A	100.0	100.0	100.0	100.0	99.9	99.8	99.6	97.7	78.9	52.9	44.6	37.2	29.8	25.9	18.1	14.9	11.8	7.1	4.7
T4-S3-04-B	100.0	100.0	100.0	100.0	100.0	100.0	99.5	95.5	55.9	15.2	7.7	5.0	3.5	3.1	2.2	2.2	1.3	0.4	0.4
T4-S3-04-C	100.0	100.0	99.5	99.5	99.2	98.7	98.2	96.8	77.8	42.9	29.2	21.5	13.9	10.8	9.4	7.2	5.8	3.1	2.2
T4-S3-04-D	100.0	100.0	100.0	100.0	100.0	100.0	99.6	96.6	63.0	17.2	5.9	3.1	2.2	1.7	1.3	0.9	0.4	0.4	0.4
T4-WB-01	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.3	98.8	98.1	93.2	62.2	51.0	37.5	30.3	23.9	14.3	10.4
T4-WB-02	100.0	100.0	99.4	99.4	99.4	99.4	99.1	98.7	93.4	70.4	55.4	47.0	37.7	28.3	22.0	16.5	14.9	9.4	5.5
T4-WB-04	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	94.2	91.3	81.8	54.1	44.8	34.0	28.6	22.4	13.9	9.3

Testing performed according to ASTM D421/D422

0103

JQ36

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T4 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-WB-03	0.0	0.0	0.5	6.9	26.6	12.9	12.1	5.6	7.3	8.9	19.3
T4-WB-03	0.0	0.0	0.4	6.9	28.4	13.5	11.1	7.9	4.8	9.5	17.5
T4-WB-03	0.0	0.0	0.5	6.5	27.5	15.4	12.1	7.3	5.7	8.9	16.2
T4-S3-07-B	0.0	0.0	1.1	12.9	23.6	7.0	12.5	7.8	7.0	9.4	18.7
T4-S3-07-C	0.0	0.0	1.3	11.0	16.5	11.5	10.0	9.2	7.7	12.3	20.7
T4-S3-07-D	0.0	0.1	15.4	32.2	7.6	7.8	7.8	5.7	4.3	7.1	12.0
T4-S3-07-E	0.0	0.2	34.6	59.7	1.1	0.4	0.4	0.9	0.4	0.9	1.3
T4-S3-04-A	0.2	0.2	20.6	41.7	7.4	3.9	7.8	3.1	3.1	4.7	7.1
T4-S3-04-B	0.0	0.5	43.6	50.9	1.5	0.4	0.9	0.0	0.9	0.9	0.4
T4-S3-04-C	1.3	0.4	20.5	56.3	7.6	3.1	1.3	2.2	1.3	2.7	3.1
T4-S3-04-D	0.0	0.4	36.6	60.0	0.9	0.4	0.4	0.4	0.4	0.0	0.4
T4-WB-01	0.0	0.1	0.7	6.0	31.1	11.2	13.6	7.2	6.4	9.6	14.3
T4-WB-02	0.6	0.3	5.8	46.4	9.3	9.4	6.3	5.5	1.6	5.5	9.4
T4-WB-04	0.0	0.0	1.1	17.1	27.7	9.3	10.8	5.4	6.2	8.5	13.9

0104

JQ36

TOTAL SOLIDS

Solids Data Entry Report Checked by: EJR Date: 8/01/06
Date: 08/01/06 Data Analyst: DM

Solids Determination performed on 07/31/06 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
JQ36	A	T4-S3-07-B	1.040	10.687	6.082	52.26
JQ36	B	T4-S3-07-C	1.005	10.641	6.255	54.48
JQ36	C	T4-S3-07-D	0.975	10.282	6.997	64.70
JQ36	D	T4-S3-07-E	0.986	10.470	8.489	79.11
JQ36	E	T4-S3-04-A	1.037	10.447	6.457	57.60
JQ36	F	T4-S3-04-B	1.071	10.518	7.841	71.66
JQ36	G	T4-S3-04-C	0.986	10.828	8.414	75.47
JQ36	H	T4-S3-04-D	1.005	10.379	8.816	83.33
JQ36	I	T4-WB-01	1.008	10.371	4.781	40.30
JQ36	J	T4-WB-02	1.057	10.247	5.743	50.99
JQ36	K	T4-WB-03	1.015	10.512	5.041	42.39
JQ36	L	T4-WB-04	1.030	10.136	5.095	44.64

Extractions Total Solids-extts
Data By: Tia Hawk
Created: 7/25/06

Worklist: 5397
Analyst: TAH
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	JQ36A 06-12972 T4-S3-07-B	1.14	10.63	6.20	53.3	6.9
2.	JQ36B 06-12973 T4-S3-07-C	1.13	13.63	7.98	54.8	6.5
3.	JQ36C 06-12974 T4-S3-07-D	1.13	13.85	9.53	66.0	6.8
4.	JQ36D 06-12975 T4-S3-07-E	1.14	13.97	11.71	82.4	6.7
5.	JQ36E 06-12976 T4-S3-04-A	1.15	12.34	8.43	65.1	7.2
6.	JQ36F 06-12977 T4-S3-04-B	1.15	13.91	11.02	77.4	6.4
7.	JQ36G 06-12978 T4-S3-04-C	1.13	14.91	10.87	70.7	6.8
8.	JQ36H 06-12979 T4-S3-04-D	1.14	13.37	10.76	78.7	6.3
9.	JQ36I 06-12980 T4-WB-01	1.14	12.40	6.01	43.3	7.1
10.	JQ36J 06-12981 T4-WB-02	1.13	10.92	6.93	59.2	6.5
11.	JQ36K 06-12982 T4-WB-03	1.13	10.64	5.40	44.9	6.9
12.	JQ36L 06-12983 T4-WB-04	1.14	11.56	6.00	46.6	6.5

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ36

prepared
by

Analytical Resources, Inc.

SIM Semivolatile Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ36

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	MNP	DBA	TOT OUT
T4-S3-07-B	70.3%	94.3%	0
T4-S3-07-C	54.7%	68.3%	0
T4-S3-07-D	70.7%	91.0%	0
MB-080306	64.7%	87.0%	0
LCS-080306	70.0%	91.0%	0
T4-S3-07-E	61.0%	71.7%	0
T4-S3-07-E MS	63.0%	77.3%	0
T4-S3-07-E MSD	65.3%	73.7%	0
T4-S3-04-A	74.3%	102%	0
T4-S3-04-A DL	73.3%	68.0%	0
T4-S3-04-B	63.7%	67.3%	0
T4-S3-04-B DL	66.7%	82.0%	0
T4-S3-04-C	59.0%	62.7%	0
T4-S3-04-C DL	60.0%	67.3%	0
T4-S3-04-D	62.3%	68.7%	0
T4-WB-01	52.0%	51.7%	0
T4-WB-01 DL	48.7%	69.3%	0
T4-WB-02	59.0%	48.0%	0
T4-WB-03	54.3%	44.0%	0
T4-WB-04	49.3%	35.3%	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: 06-12972 to 06-12983

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-07-E
MATRIX SPIKE

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted MS/MSD: 08/03/06

Date Analyzed MS: 08/09/06 11:53
MSD: 08/09/06 12:17
Instrument/Analyst MS: NT5/VTS
MSD: Und: 7/VTS

Sample Amount MS: 10.3 g-dry-wt
MSD: 10.3 g-dry-wt
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenanthrene	90.3	185	146	64.9%	256	146	113%	32.2%
Chrysene	170	270	146	68.5%	366	146	134%	30.2%
Benzo(k)fluoranthene	159	262	146	70.5%	339	146	123%	25.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: LCS-080306
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080306
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/03/06
Date Analyzed LCS: 08/09/06 09:13
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	99.0	150	66.0%
1-Methylnaphthalene	92.5	150	61.7%
Acenaphthylene	102	150	68.0%
Acenaphthene	106	150	70.7%
Fluorene	106	150	70.7%
Phenanthrene	112	150	74.7%
Anthracene	104	150	69.3%
Fluoranthene	105	150	70.0%
Pyrene	123	150	82.0%
Benzo(a)anthracene	111	150	74.0%
Chrysene	120	150	80.0%
Benzo(b)fluoranthene	122	150	81.3%
Benzo(k)fluoranthene	116	150	77.3%
Benzo(a)pyrene	102	150	68.0%
Indeno(1,2,3-cd)pyrene	124	150	82.7%
Dibenz(a,h)anthracene	130	150	86.7%
Benzo(g,h,i)perylene	138	150	92.0%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracen	91.0%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JQ36MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: JQ36 Project: T4 EARLY ACTION

Lab File ID: JQ36MB Date Extracted: 08/03/06

Instrument ID: NT1 Date Analyzed: 08/09/06

Matrix: SOLID Time Analyzed: 0849

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JQ36LCSS1	JQ36LCSS1	JQ36SB	08/09/06
02	T4-S3-07-C	JQ36B	JQ36B	08/09/06
03	T4-S3-07-D	JQ36C	JQ36C	08/09/06
04	T4-S3-07-E	JQ36D	JQ36D2	08/09/06
05	T4-S3-07-E MS	JQ36DMS	JQ36DMS	08/09/06
06	T4-S3-07-E MSD	JQ36DMSD	JQ36DMSD	08/09/06
07	T4-S3-04-A	JQ36E	JQ36E	08/09/06
08	T4-S3-04-B	JQ36FDL	JQ36F	08/09/06
09	T4-S3-04-C	JQ36GDL	JQ36G	08/09/06
10	T4-WB-01	JQ36IDL	JQ36I	08/09/06
11	T4-S3-04-A	JQ36EDL	JQ36EDL	08/10/06
12	T4-S3-04-B	JQ36F	JQ36F	08/10/06
13	T4-S3-04-C	JQ36G	JQ36G	08/10/06
14	T4-S3-04-D	JQ36H	JQ36H	08/10/06
15	T4-WB-01	JQ36I	JQ36I	08/10/06
16	T4-WB-02	JQ36J	JQ36J	08/10/06
17	T4-WB-03	JQ36K	JQ36K	08/10/06
18	T4-WB-04	JQ36L	JQ36L	08/10/06
19	T4-S3-07-B	JQ36A	JQ36ADL	08/14/06
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30				

COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

Instrument ID: NT1 Project: T4 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: T4 EARLY ACTION

DFTPP Injection Date: 08/09/06 DFTPP Injection Time: 0732

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	41.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.9
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	25.0 - 75.0% of mass 198	43.8
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	18.7
365	Greater than 0.75% of mass 198	2.10
441	Present, but less than mass 443	12.8
442	40.0 - 110.0% of mass 198	73.3
443	15.0 - 24.0% of mass 442	14.2 (19.3)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		CC0809	CC0809	08/09/06	0750
02	JQ36MBS1	JQ36MBS1	JQ36MB	08/09/06	0849
03	JQ36LCSS1	JQ36LCSS1	JQ36SB	08/09/06	0913
04	T4-S3-07-C	JQ36B	JQ36B	08/09/06	1003
05	T4-S3-07-D	JQ36C	JQ36C	08/09/06	1028
06	T4-S3-07-E	JQ36D	JQ36D2	08/09/06	1128
07	T4-S3-07-E MS	JQ36DMS	JQ36DMS	08/09/06	1153
08	T4-S3-07-E MSD	JQ36DMSD	JQ36DMSD	08/09/06	1217
09	T4-S3-04-A	JQ36E	JQ36E	08/09/06	1242
10	T4-S3-04-B	JQ36FDL	JQ36F	08/09/06	1307
11	T4-S3-04-C	JQ36GDL	JQ36G	08/09/06	1332
12	T4-WB-01	JQ36IDL	JQ36I	08/09/06	1421
13					
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22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

Instrument ID: NT1 Project: T4 EARLY ACTION

DFTPP Injection Date: 08/10/06 DFTPP Injection Time: 1308

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	41.7	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	42.9	
70	Less than 2.0% of mass 69	0.3	(0.7)1
127	25.0 - 75.0% of mass 198	45.7	
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	6.7	
275	10.0 - 30.0% of mass 198	19.4	
365	Greater than 0.75% of mass 198	1.83	
441	Present, but less than mass 443	12.5	
442	40.0 - 110.0% of mass 198	70.2	
443	15.0 - 24.0% of mass 442	13.3	(19.0)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		CC0810	CC0810	08/10/06	1323
02	T4-S3-04-A	JQ36EDL	JQ36EDL	08/10/06	1706
03	T4-S3-04-B	JQ36F	JQ36F	08/10/06	1731
04	T4-S3-04-C	JQ36G	JQ36G	08/10/06	1756
05	T4-S3-04-D	JQ36H	JQ36H	08/10/06	1821
06	T4-WB-01	JQ36I	JQ36I	08/10/06	1845
07	T4-WB-02	JQ36J	JQ36J	08/10/06	1910
08	T4-WB-03	JQ36K	JQ36K	08/10/06	1935
09	T4-WB-04	JQ36L	JQ36L	08/10/06	2000
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22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

Instrument ID: NT1 Project: T4 EARLY ACTION

DFTPP Injection Date: 08/14/06 DFTPP Injection Time: 0758

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	41.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.6
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	45.5
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	6.5
275	10.0 - 30.0% of mass 198	20.4
365	Greater than 0.75% of mass 198	2.12
441	Present, but less than mass 443	0.2
442	40.0 - 110.0% of mass 198	81.5
443	15.0 - 24.0% of mass 442	15.5 (19.0)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		CC0814	CC0814	08/14/06	0813
02	T4-S3-07-B	JQ36A	JQ36ADL	08/14/06	1156
03					
04					
05					
06					
07					
08					
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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: JQ36 Project: T4 EARLY ACTION

Cont. Calib. ID: CC0809 Date Analyzed: 08/09/06

Instrument ID: NT1 Time Analyzed: 0750

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3(PHN) AREA #	RT #
	12 HOUR STD	240084	6.88	117778	8.93	165702	10.75
	UPPER LIMIT	480168	7.38	235556	9.43	331404	11.25
	LOWER LIMIT	120042	6.38	58889	8.43	82851	10.25
	CLIENT SAMP. NO.						
01	JQ36MBS1	281861	6.87	134389	8.94	197511	10.75
02	JQ36LCSS1	275313	6.87	133692	8.93	191452	10.75
03	T4-S3-07-C	305810	6.87	156239	8.93	236480	10.75
04	T4-S3-07-D	286948	6.88	143552	8.93	214338	10.75
05	T4-S3-07-E	313898	6.87	158383	8.94	239934	10.75
06	T4-S3-07-E M	280786	6.87	137095	8.93	195375	10.75
07	T4-S3-07-E M	297558	6.87	148574	8.94	227903	10.75
08	T4-S3-04-A	276537	6.88	138889	8.94	194946	10.75
09	T4-S3-04-B	290530	6.88	142764	8.93	211489	10.75
10	T4-S3-04-C	265372	6.87	128041	8.94	189984	10.75
11	T4-WB-01	302761	6.88	143704	8.93	208678	10.75
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.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Cont. Calib. ID: CC0809 Date Analyzed: 08/09/06

Instrument ID: NT1 Time Analyzed: 0750

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	120342	14.06	134879	16.01		
	UPPER LIMIT	240684	14.56	269758	16.51		
	LOWER LIMIT	60171	13.56	67440	15.51		
	CLIENT SAMP. NO.						
01	JQ36MBS1	141875	14.06	154607	16.00		
02	JQ36LCSS1	144196	14.06	149760	16.01		
03	T4-S3-07-C	215326	14.06	252490	16.01		
04	T4-S3-07-D	206392	14.06	235490	16.01		
05	T4-S3-07-E	205634	14.07	223426	16.01		
06	T4-S3-07-E M	171946	14.06	209334	16.01		
07	T4-S3-07-E M	212253	14.06	228736	16.01		
08	T4-S3-04-A	185164	14.06	219680	16.01		
09	T4-S3-04-B	180784	14.06	225659	16.01		
10	T4-S3-04-C	168146	14.06	205398	16.00		
11	T4-WB-01	178534	14.06	230149	16.01		
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
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.

FORM VIII SV-2

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Cont. Calib. ID: CC0810 Date Analyzed: 08/10/06

Instrument ID: NT1 Time Analyzed: 1323

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
	12 HOUR STD	253209	6.87	122198	8.94	181565	10.75
	UPPER LIMIT	506418	7.37	244396	9.44	363130	11.25
	LOWER LIMIT	126604	6.37	61099	8.44	90782	10.25
	CLIENT SAMP. NO.						
01	T4-S3-04-A	267048	6.87	128258	8.94	196888	10.74
02	T4-S3-04-B	311331	6.87	158607	8.93	240342	10.75
03	T4-S3-04-C	289236	6.87	146350	8.93	226319	10.75
04	T4-S3-04-D	281207	6.87	139188	8.93	210504	10.75
05	T4-WB-01	282183	6.87	141073	8.94	214898	10.75
06	T4-WB-02	300486	6.87	149361	8.93	228372	10.75
07	T4-WB-03	291689	6.87	148728	8.93	228935	10.75
08	T4-WB-04	280878	6.87	145849	8.93	222223	10.75
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.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Cont. Calib. ID: CC0810 Date Analyzed: 08/10/06

Instrument ID: NT1 Time Analyzed: 1323

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	143956	14.05	157395	16.00		
	UPPER LIMIT	287912	14.55	314790	16.50		
	LOWER LIMIT	71978	13.55	78698	15.50		
	CLIENT SAMP. NO.						
01	T4-S3-04-A	187234	14.06	228685	16.00		
02	T4-S3-04-B	211477	14.06	236532	16.01		
03	T4-S3-04-C	191972	14.06	220413	16.01		
04	T4-S3-04-D	182315	14.06	211835	16.00		
05	T4-WB-01	207156	14.06	228634	16.02		
06	T4-WB-02	218919	14.06	227488	16.01		
07	T4-WB-03	221757	14.06	231164	16.01		
08	T4-WB-04	218134	14.06	226726	16.01		
09							
10							
11							
12							
13							
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17							
18							
19							
20							
21							
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.

FORM VIII SV-2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Cont. Calib. ID: CC0814 Date Analyzed: 08/14/06

Instrument ID: NT1 Time Analyzed: 0813

		IS1(NPT) AREA	#	RT	#	IS2(ANT) AREA	#	RT	#	IS3(PHN) AREA	#	RT	#
	12 HOUR STD	232064		6.88		123496		8.94		190473		10.75	
	UPPER LIMIT	464128		7.38		246992		9.44		380946		11.25	
	LOWER LIMIT	116032		6.38		61748		8.44		95236		10.25	
	CLIENT SAMP. NO.												
01	T4-S3-07-B	235304		6.88		122016		8.94		190185		10.75	
02													
03													
04													
05													
06													
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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.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Cont. Calib. ID: CC0814 Date Analyzed: 08/14/06

Instrument ID: NT1 Time Analyzed: 0813

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	159839	14.06	162821	16.00		
	UPPER LIMIT	319678	14.56	325642	16.50		
	LOWER LIMIT	79920	13.56	81410	15.50		
	CLIENT SAMP. NO.						
01	T4-S3-07-B	176598	14.06	188178	16.00		
02							
03							
04							
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21							
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.

FORM VIII SV-2

SIM Semivolatile Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ36

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-S3-07-B
SAMPLE

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/14/06 11:56
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 46.7%
pH: 6.9

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	50	120	
91-57-6	2-Methylnaphthalene	50	45	J
90-12-0	1-Methylnaphthalene	50	30	J
208-96-8	Acenaphthylene	50	79	
83-32-9	Acenaphthene	50	300	
86-73-7	Fluorene	50	200	
85-01-8	Phenanthrene	50	1,800	
120-12-7	Anthracene	50	410	
206-44-0	Fluoranthene	50	4,500	
129-00-0	Pyrene	50	4,300	
56-55-3	Benzo(a)anthracene	50	2,200	
218-01-9	Chrysene	50	2,800	
205-99-2	Benzo(b)fluoranthene	50	2,800	
207-08-9	Benzo(k)fluoranthene	50	2,600	
50-32-8	Benzo(a)pyrene	50	3,100	
193-39-5	Indeno(1,2,3-cd)pyrene	50	2,000	
53-70-3	Dibenz(a,h)anthracene	50	620	
191-24-2	Benzo(g,h,i)perylene	50	2,400	
198-55-0	Perylene	50	1,000	
92-52-4	Biphenyl	50	< 50	U
581-42-0	2,6-Dimethylnaphthalene	50	< 50	U
832-69-9	1-Methylphenanthrene	50	140	
192-97-2	Benzo(e)pyrene	50	1,900	
2245-38-7	2,3,5-Trimethylnaphthalene	50	64	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracen	94.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060814.b/jq36adl.d
Lab Smp Id: JQ36A Client Smp ID: T4-S3-07-B
Inj Date : 14-AUG-2006 11:56
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36A,10
Misc Info : 06-12972
Comment : 1ul Injection
Method : /chem3/nt1.i/20060814.b/simpna.m
Meth Date : 14-Aug-2006 09:53 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 9
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	7.50000	Weight of sample extracted (g)
M	0.00000	% 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	6.880	6.880	(1.000)	235304	2.00000	
	2 Naphthalene	128	6.903	6.898	(1.003)	29421	0.25067	167.1
$	3 2-Methylnaphthalene-d10	152	7.636	7.631	(1.110)	12800	0.21120	140.8
	4 2-Methylnaphthalene	142	7.672	7.672	(1.115)	6635	0.09546	63.64
	5 1-Methylnaphthalene	142	7.802	7.802	(1.134)	4593	0.06300	42.00
	7 Acenaphthylene	152	8.759	8.760	(0.980)	16637	0.16446	109.6
*	8 Acenaphthene-d10	164	8.936	8.937	(1.000)	122016	2.00000	
	9 Acenaphthene	153	8.978	8.973	(1.005)	35926	0.59965	399.8
	10 Dibenzofuran	168	9.167	9.162	(1.026)	14037	0.15906	106.0
	11 Fluorene	166	9.586	9.587	(1.073)	27806	0.40474	269.8
*	15 Phenanthrene-d10	188	10.751	10.746	(1.000)	190185	2.00000	
	16 Phenanthrene	178	10.780	10.775	(1.003)	358767	3.67518	2450
	17 Anthracene	178	10.834	10.828	(1.008)	80738	0.82762	551.7
	19 Fluoranthene	202	12.270	12.264	(1.141)	899046	9.02939	6020

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.559	12.554	(0.893)	983461	8.67260	5782	
	22 Benzo(a)anthracene	228	14.037	14.032	(0.998)	471795	4.43647	2958	
*	23 Chrysene-d12	240	14.060	14.055	(1.000)	176598	2.00000		
	24 Chrysene	228	14.090	14.085	(1.002)	556464	5.67313	3782	
	28 Benzo(b)fluoranthene	252	15.432	15.421	(0.964)	597240	5.62356	3749	
	29 Benzo(k)fluoranthene	252	15.455	15.450	(0.966)	583392	5.15260	3435	
	30 Benzo(a)pyrene	252	15.922	15.917	(0.995)	643450	6.21783	4145	
*	31 Perylene-d12	264	16.005	16.000	(1.000)	188178	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.961	17.950	(1.122)	467368	3.92722	2618	
$	32 Dibenz(a,h)anthrancene-d14	292	17.884	17.873	(1.117)	20372	0.28288	188.6	
	34 Dibenz(a,h)anthracene	278	17.943	17.944	(1.121)	121880	1.25364	835.8	
	35 Benzo(g,h,i)perylene	276	18.540	18.529	(1.158)	480838	4.86060	3240	
	48 Biphenyl	154	8.209	8.204	(0.919)	3896	0.05168	34.45	J
	49 2,6-Dimethylnaphthalene	156	8.404	8.399	(0.940)	4604	0.07754	51.69	J
	50 2,3,5-Trimethylnaphthalene	170	9.415	9.422	(1.054)	6198	0.12744	84.96	
	51 1-Methylphenanthrene	192	11.549	11.543	(0.821)	20203	0.27948	186.3	
	52 Benzo(e)pyrene	252	15.845	15.834	(0.990)	430982	3.76242	2508	
	53 Perylene	252	16.046	16.035	(1.003)	217538	2.02260	1348	

VTS

8.14.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36adl.d
Lab Smp Id: JQ36A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060814.b/simpna.m
Misc Info: 06-12972

Calibration Date: 14-AUG-2006
Calibration Time: 08:13
Client Smp ID: T4-S3-07-B
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	232064	116032	464128	235304	1.40
8 Acenaphthene-d10	123496	61748	246992	122016	-1.20
15 Phenanthrene-d10	190473	95236	380946	190185	-0.15
23 Chrysene-d12	159839	79920	319678	176598	10.48
31 Perylene-d12	162821	81410	325642	188178	15.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.01
8 Acenaphthene-d10	8.94	8.44	9.44	8.94	-0.01
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.05
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.04
31 Perylene-d12	16.00	15.50	16.50	16.00	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

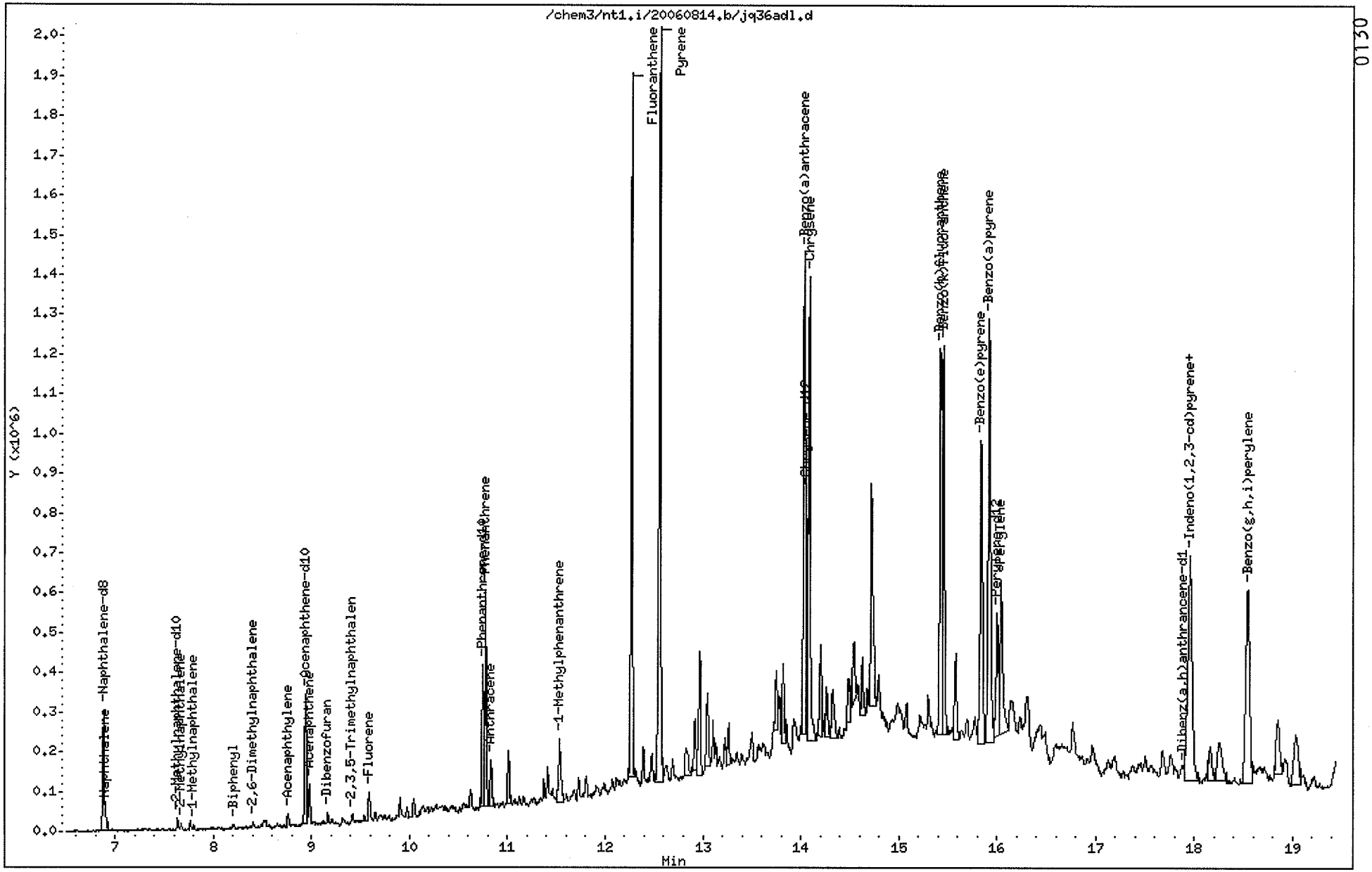
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36A
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060814.b/simpna.m
Misc Info: 06-12972

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-07-B
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	200.0	140.8	70.40	32-97
$ 32 Dibenz(a,h)anthran	200.0	188.6	94.29	21-105

Data File: /chem3/nt1.i/20060814.b/jq36ad1.d
Date : 14-AUG-2006 11:56
Client ID: T4-S3-07-B
Sample Info: JQ36A,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

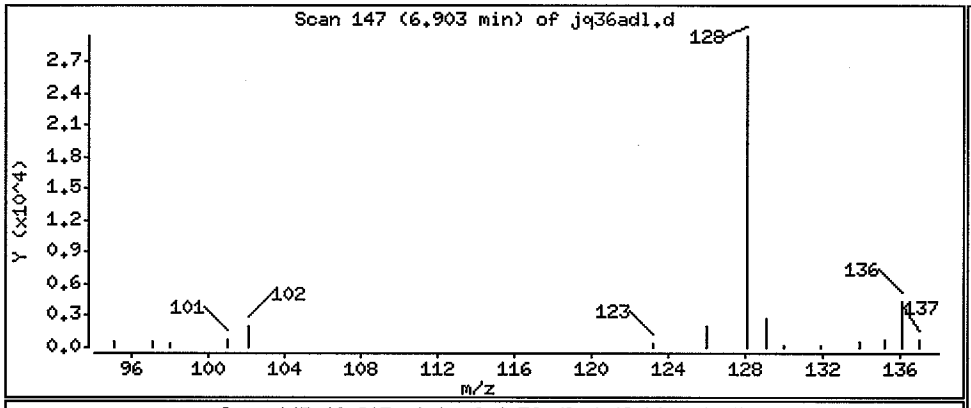
Operator: VTS

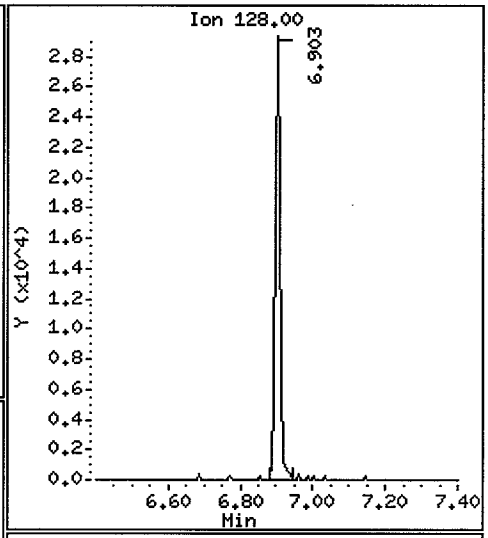
Column phase: ZB-5

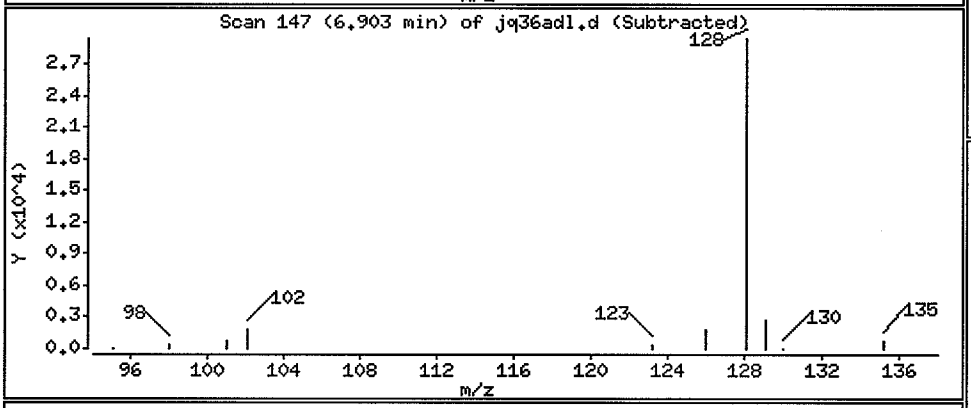
Column diameter: 0.25

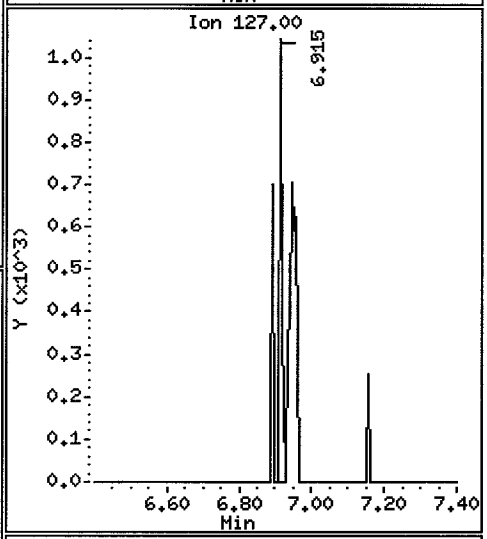
2 Naphthalene

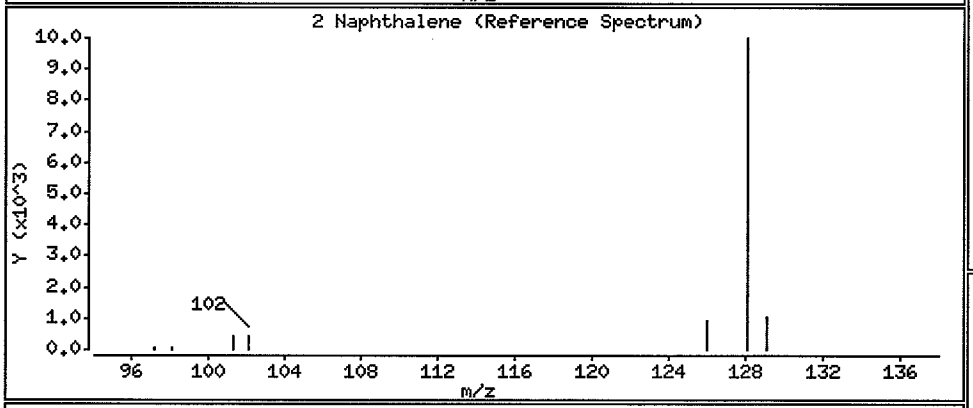
Concentration: 167.1 ug/kg

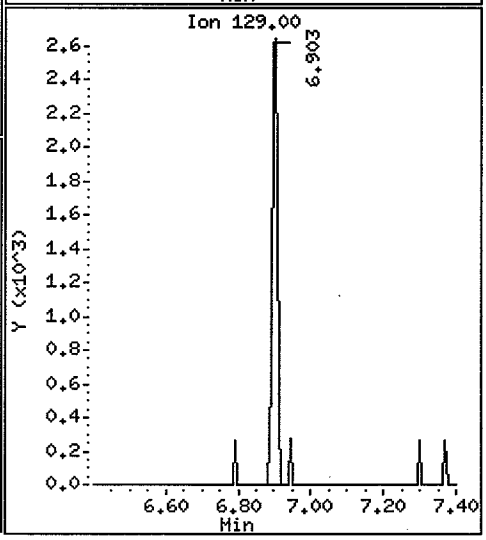


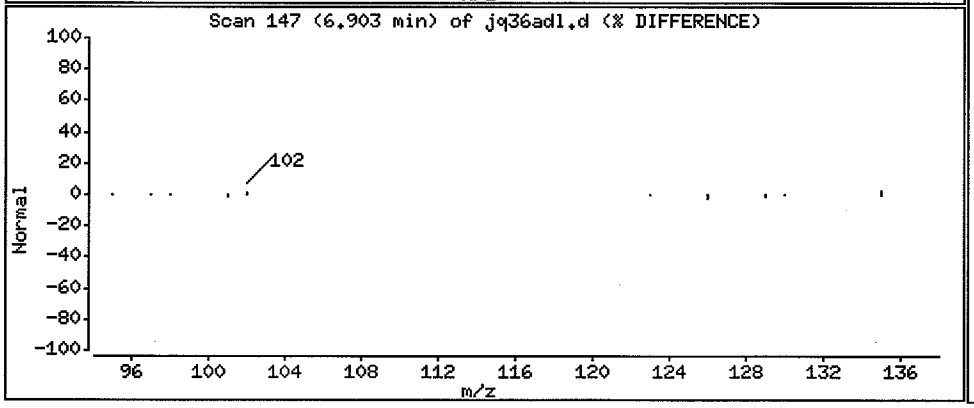












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

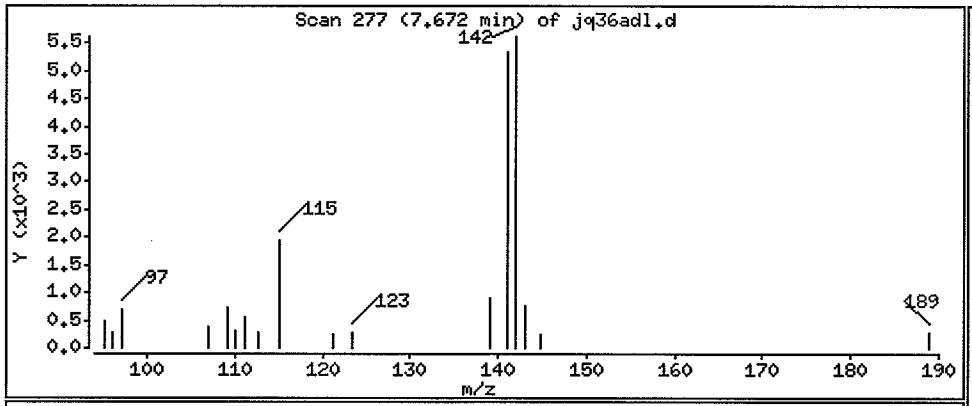
Operator: VTS

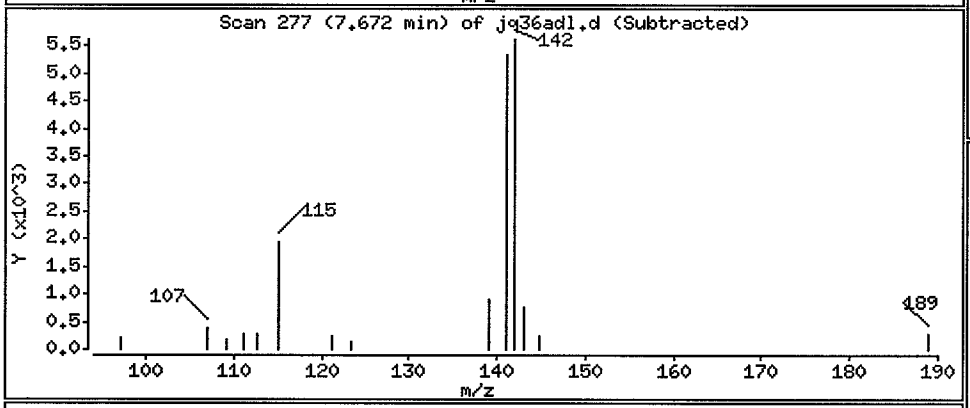
Column phase: ZB-5

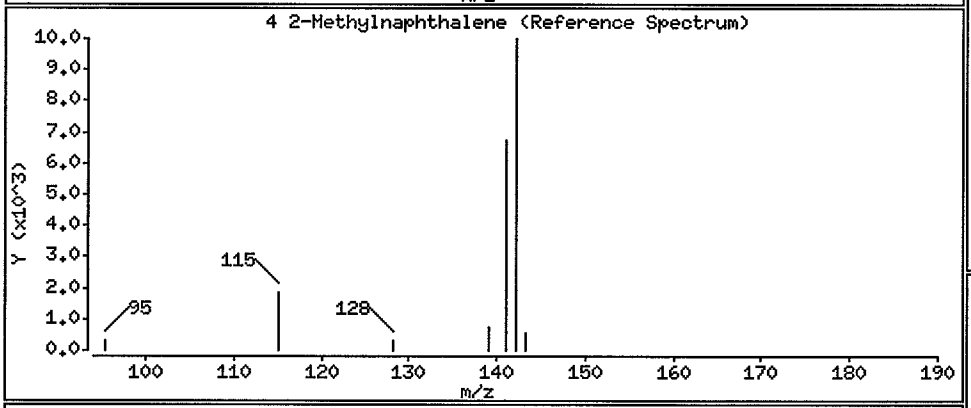
Column diameter: 0.25

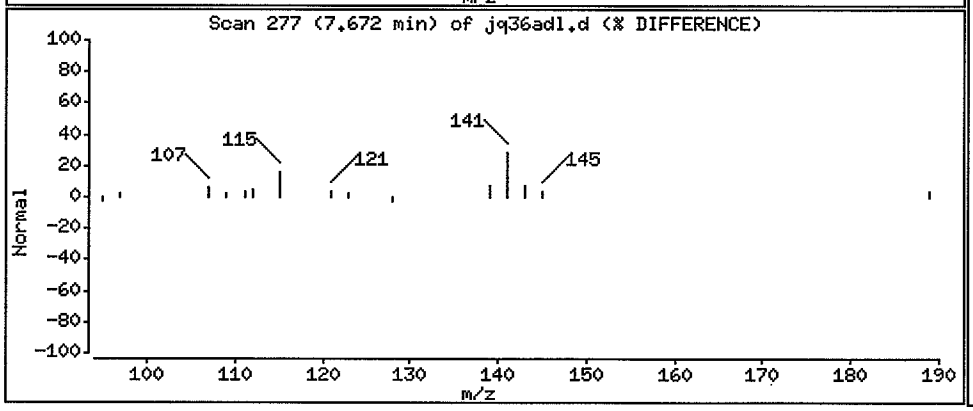
4 2-Methylnaphthalene

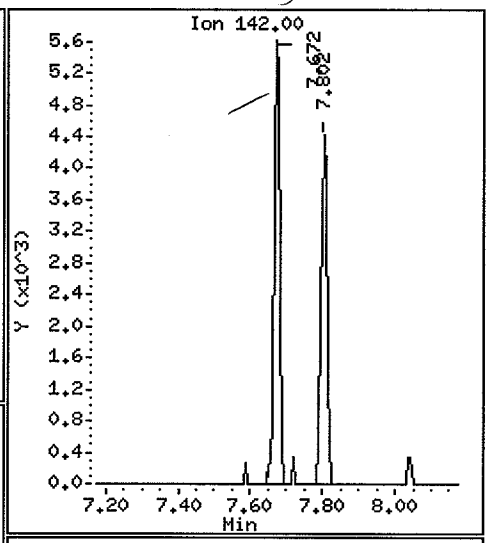
Concentration: 63.64 ug/kg

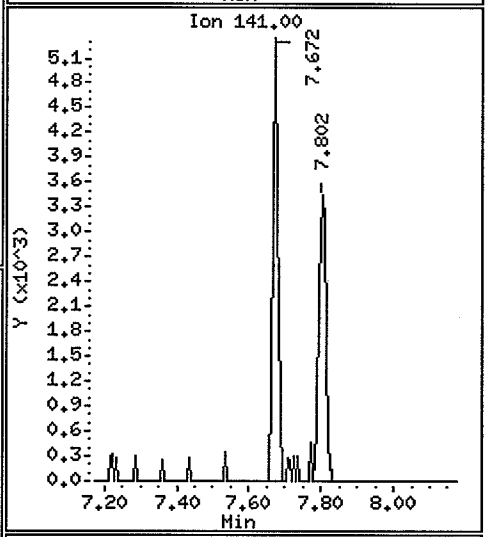


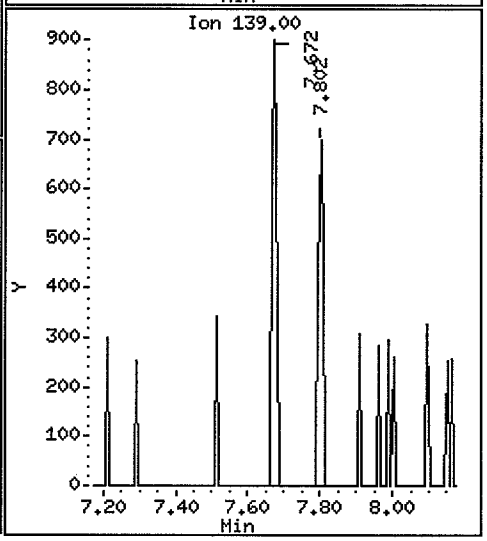












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

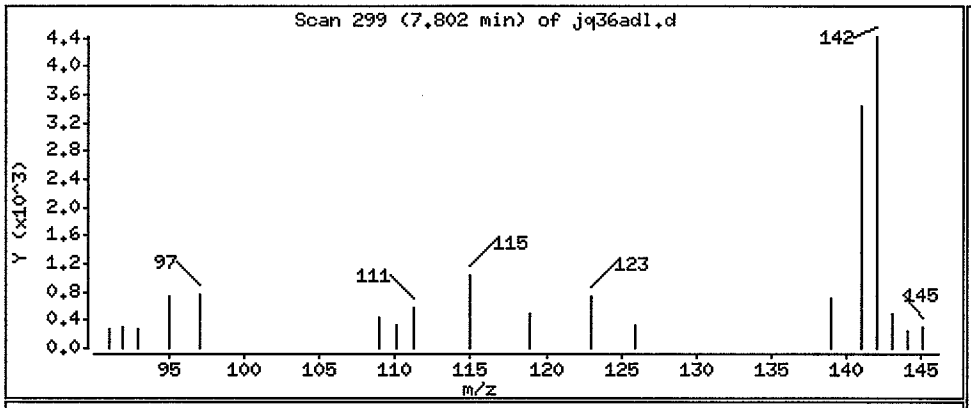
Operator: VTS

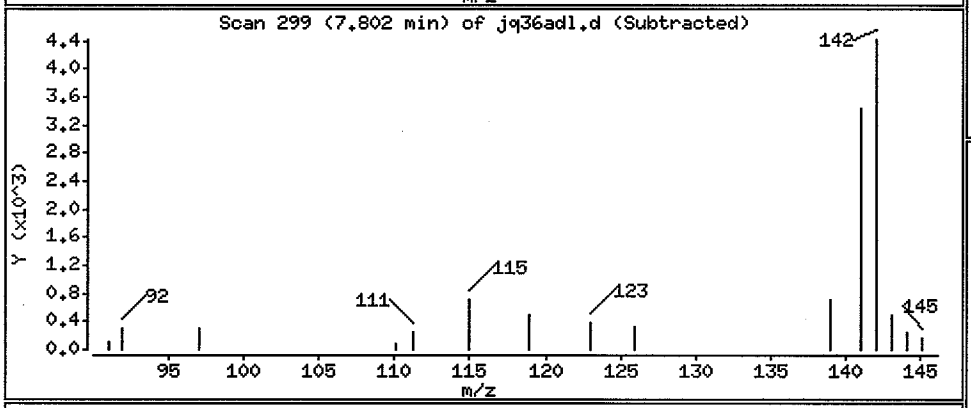
Column phase: ZB-5

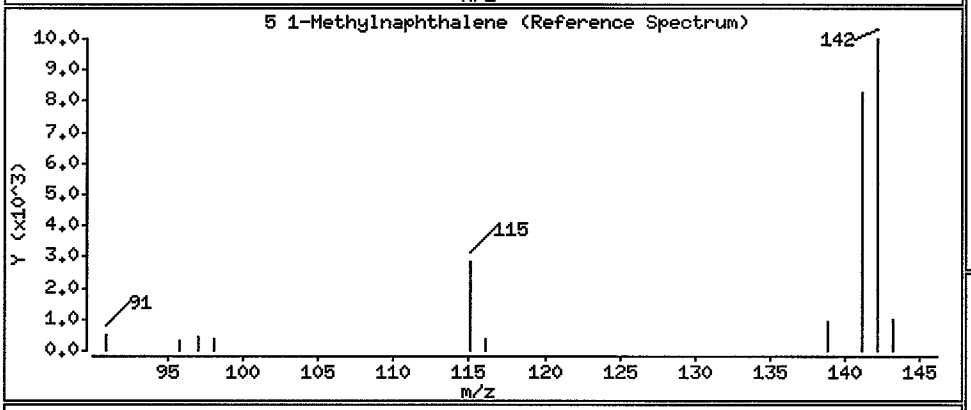
Column diameter: 0.25

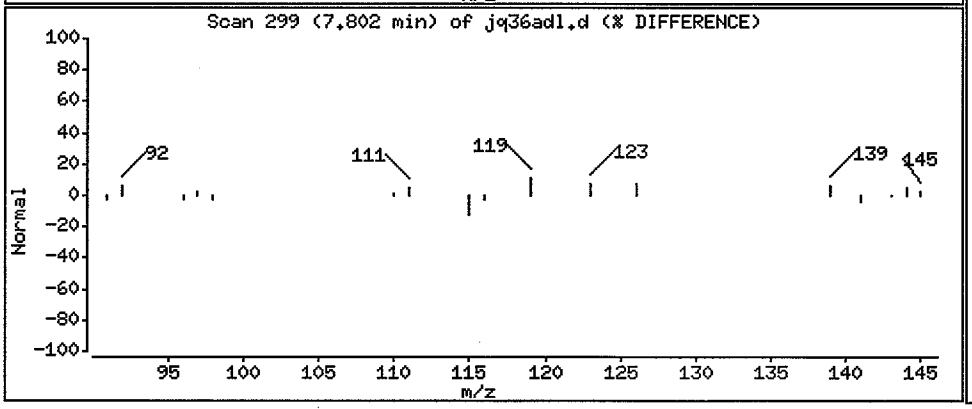
5 1-Methylnaphthalene

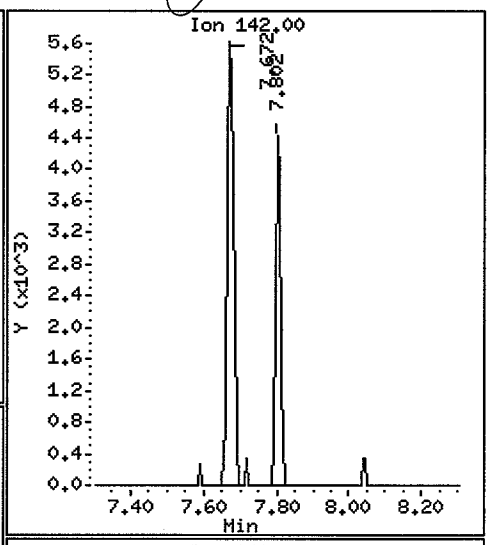
Concentration: 42.00 ug/kg

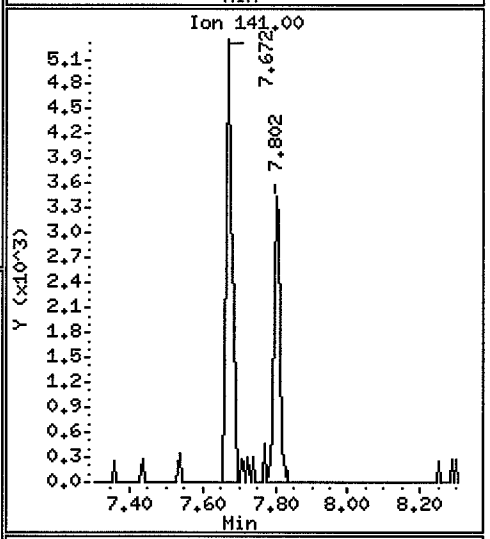


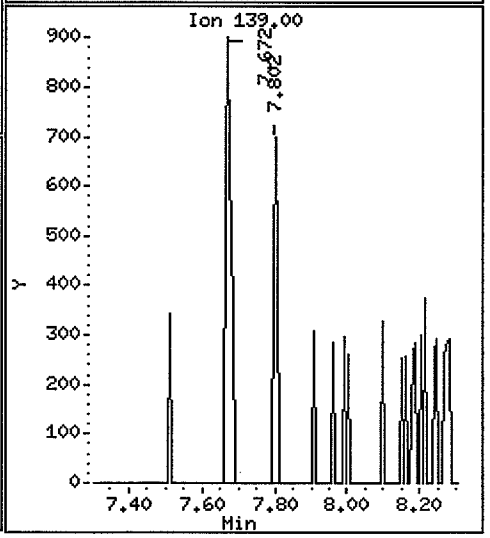












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

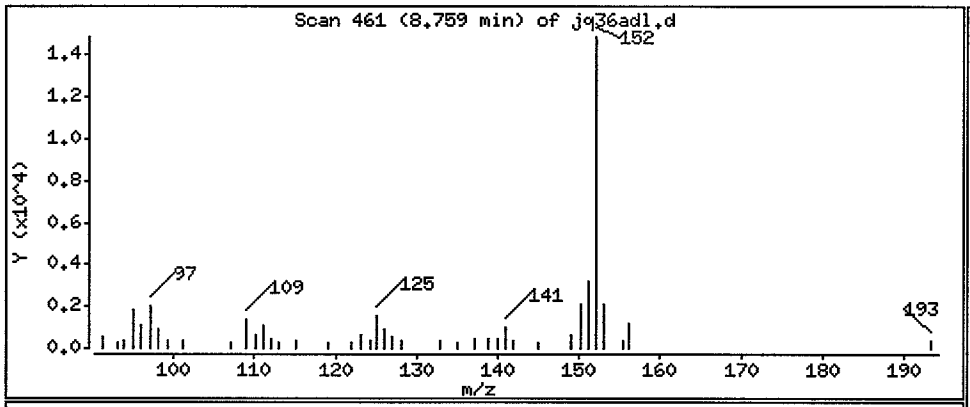
Operator: VTS

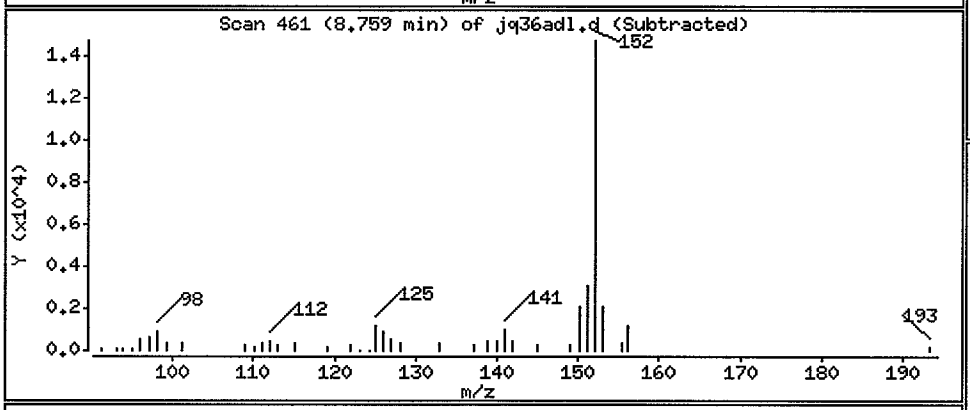
Column phase: ZB-5

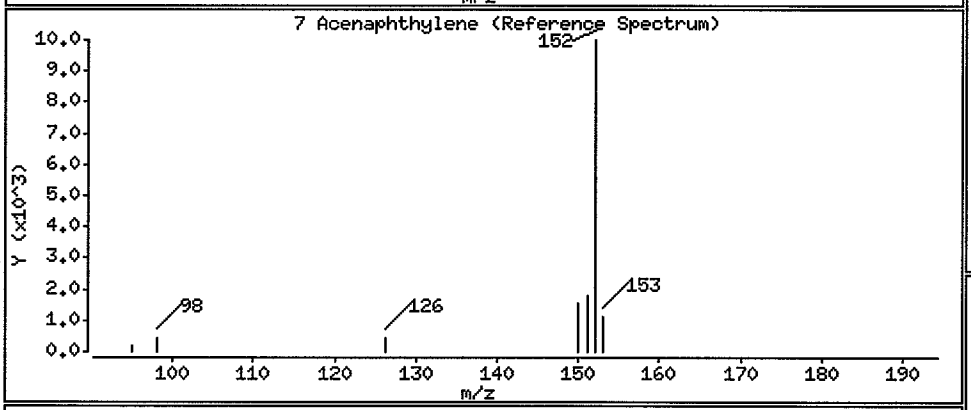
Column diameter: 0.25

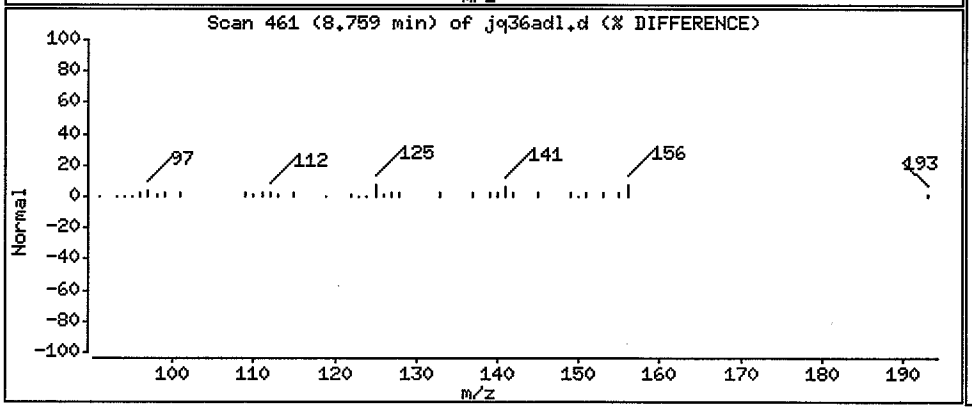
7 Acenaphthylene

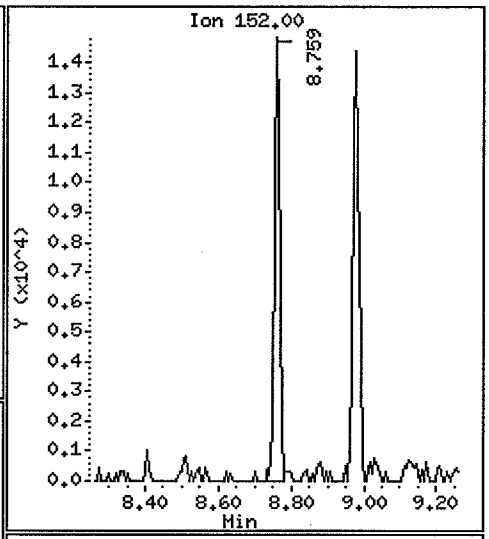
Concentration: 109.6 ug/kg

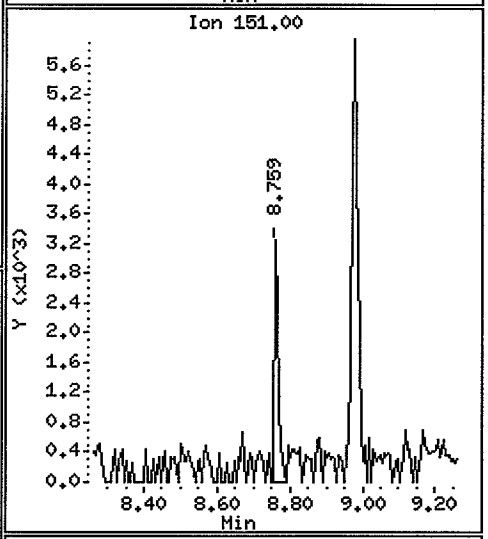


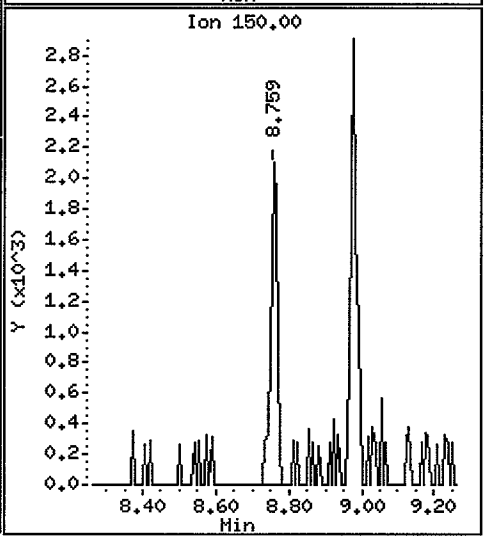












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

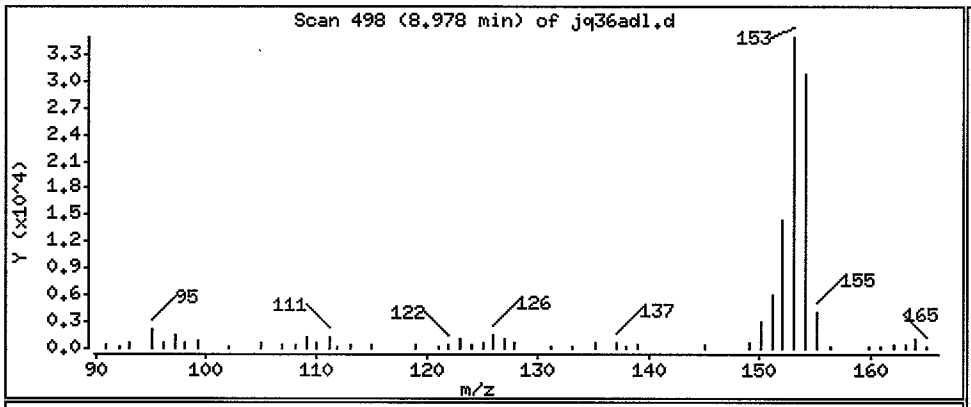
Operator: VTS

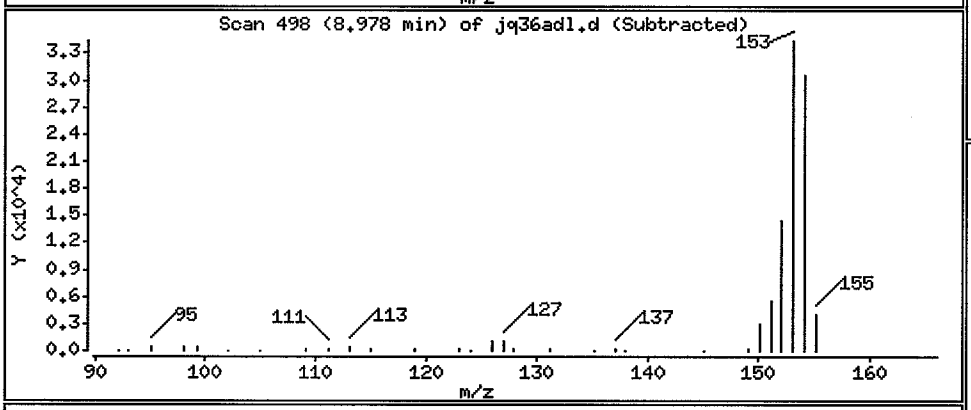
Column phase: ZB-5

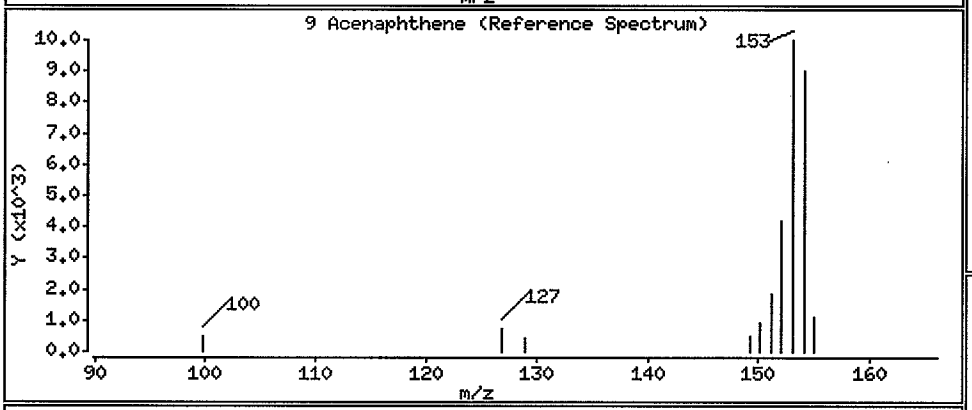
Column diameter: 0.25

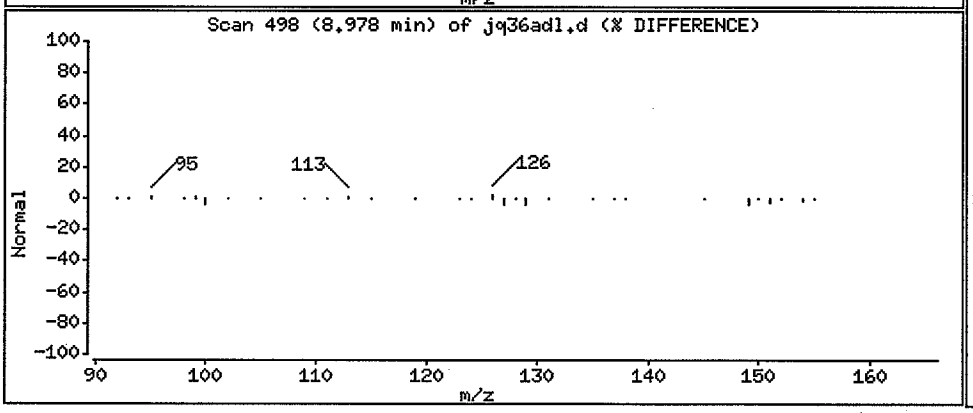
9 Acenaphthene

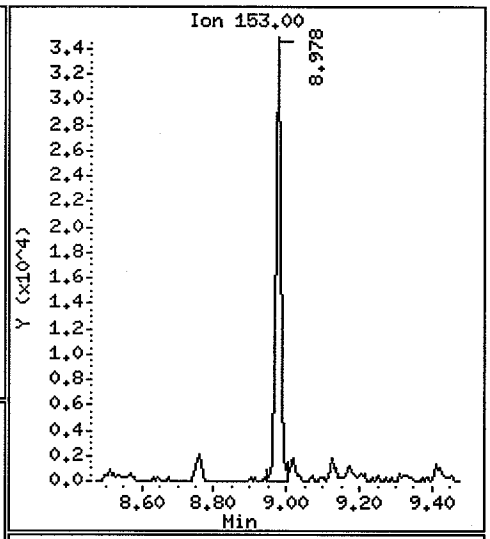
Concentration: 399.8 ug/kg

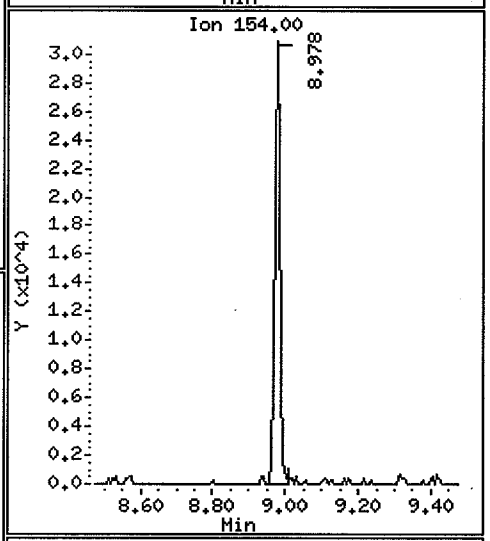


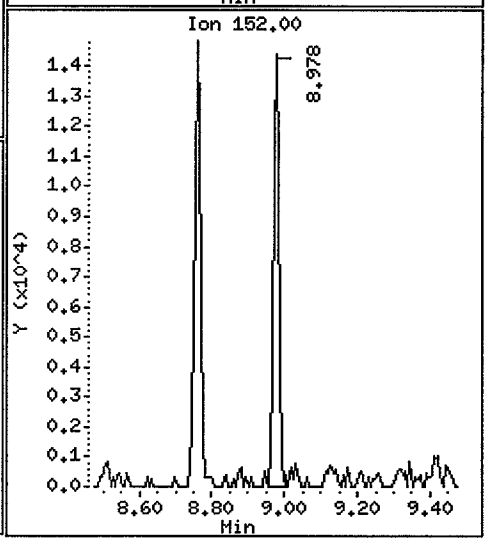












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

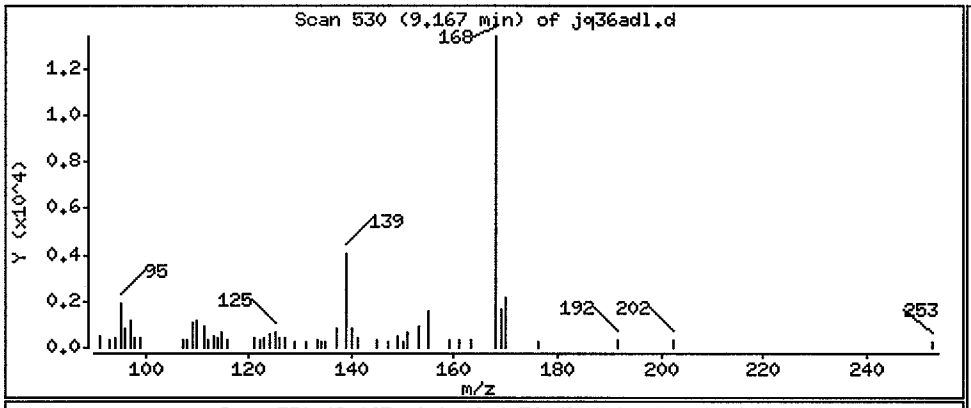
Operator: VTS

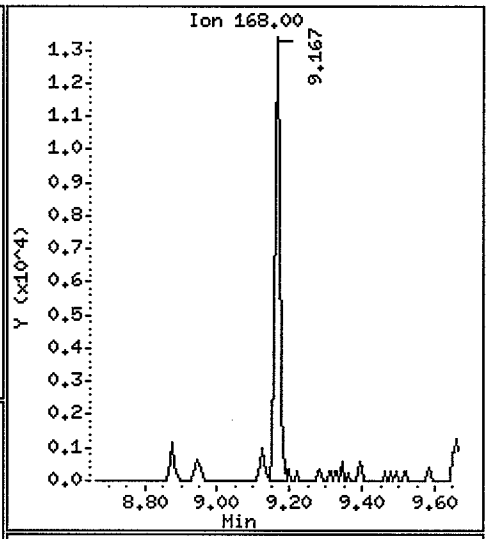
Column phase: ZB-5

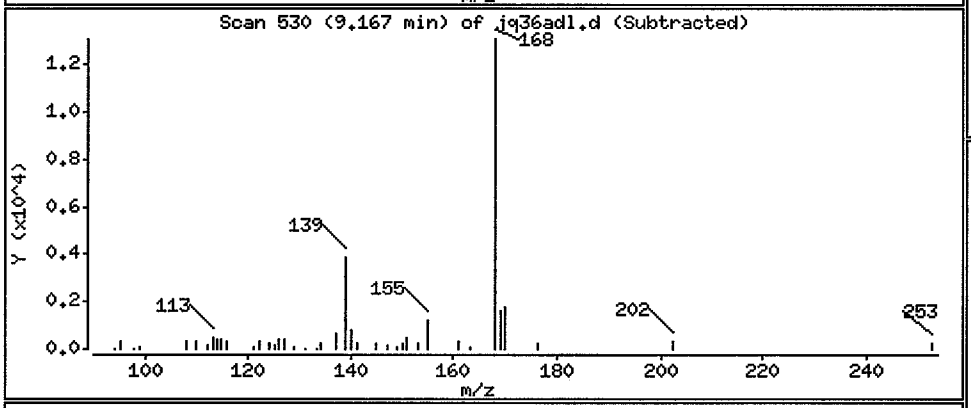
Column diameter: 0.25

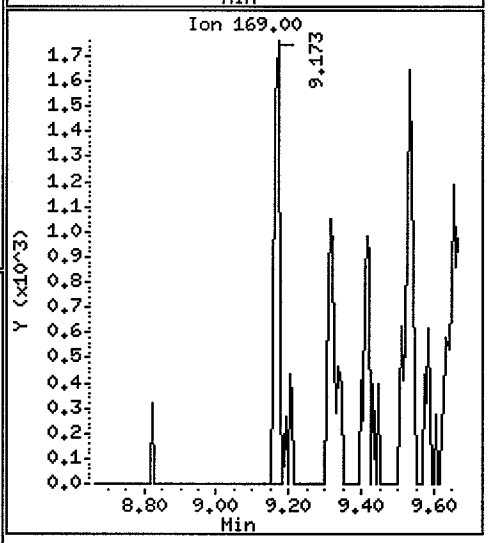
10 Dibenzofuran

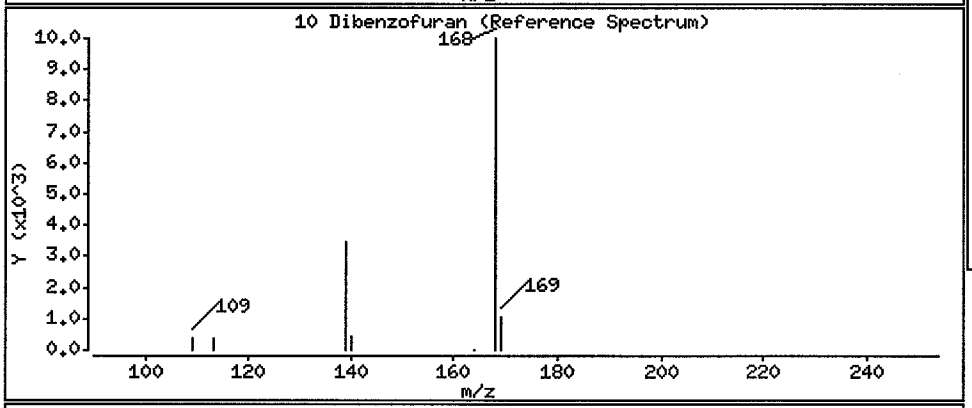
Concentration: 106.0 ug/kg

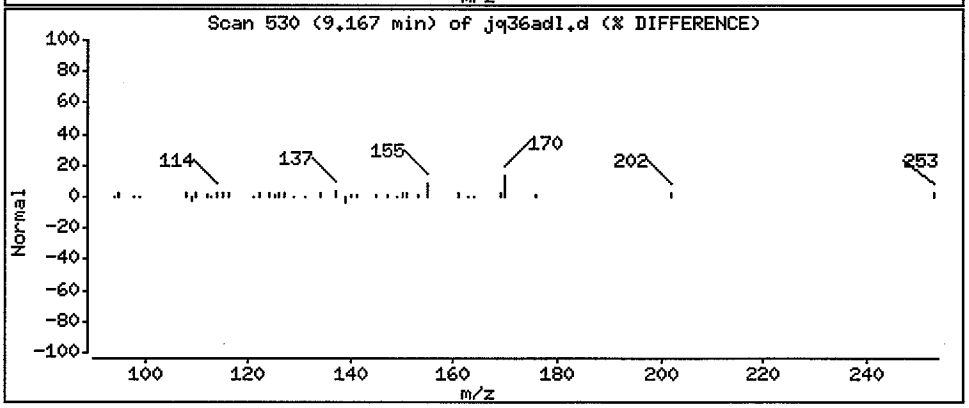












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

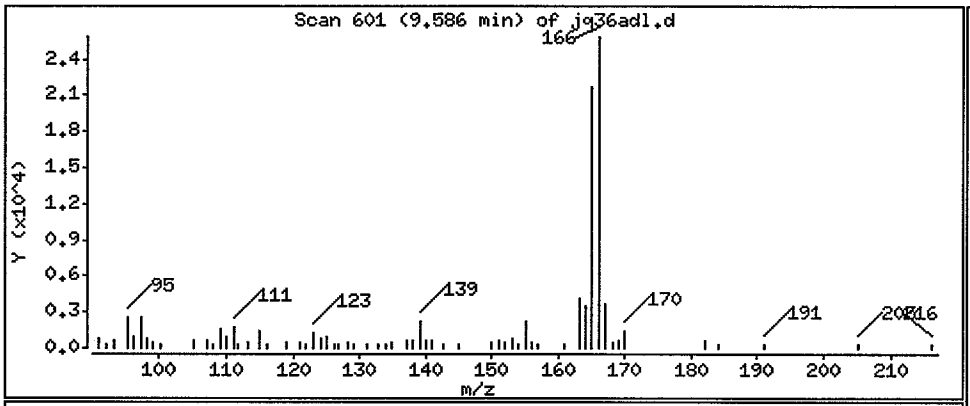
Operator: VTS

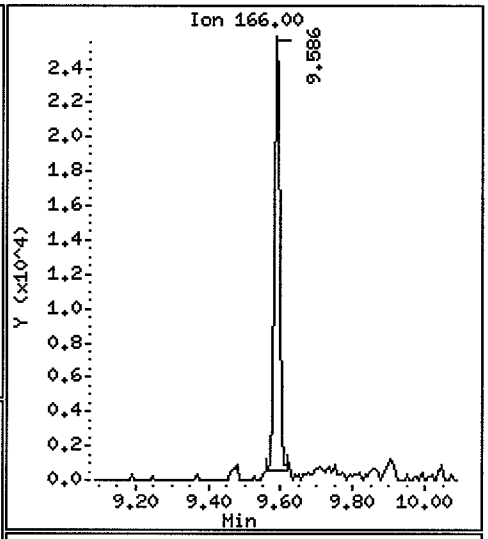
Column phase: ZB-5

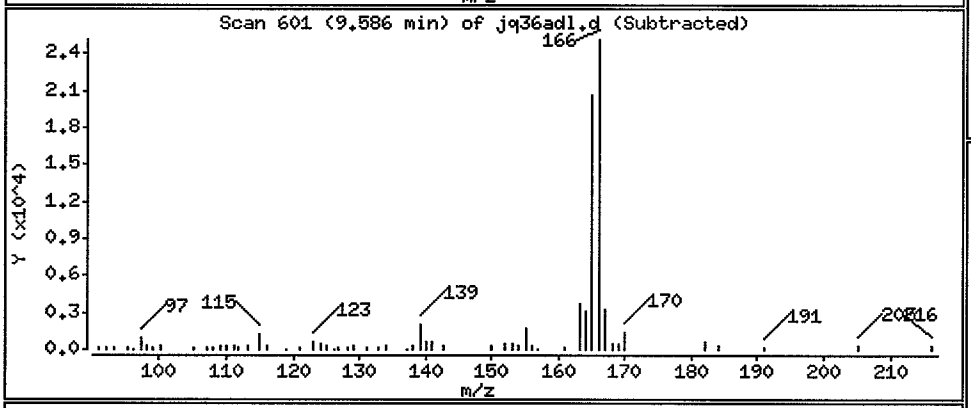
Column diameter: 0.25

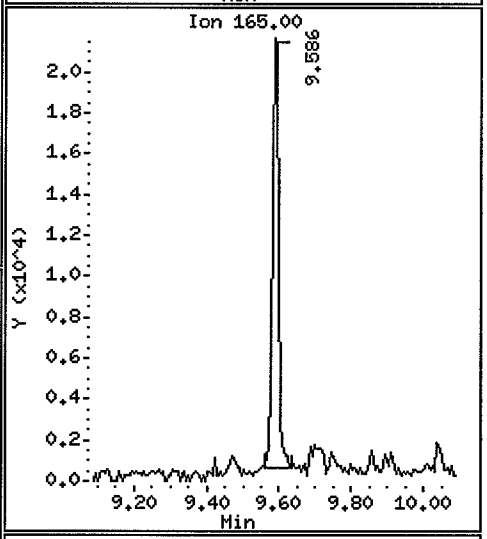
11 Fluorene

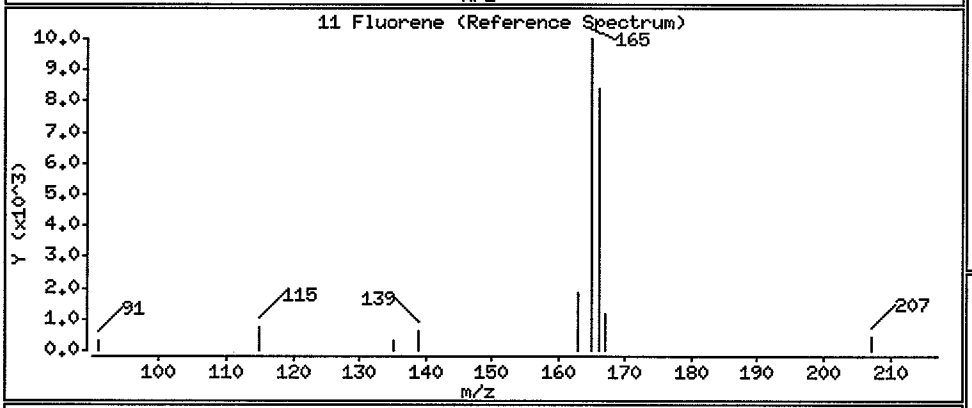
Concentration: 269.8 ug/kg

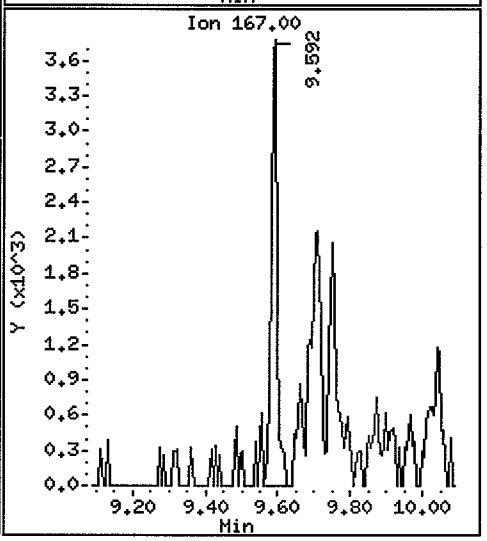


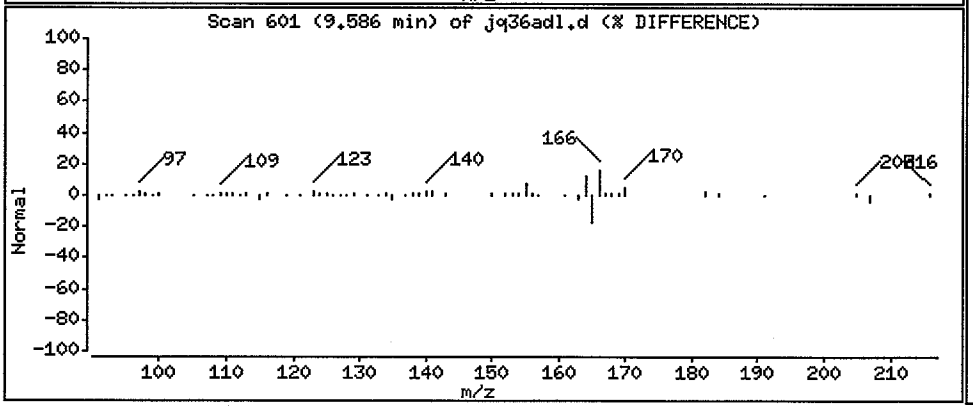












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

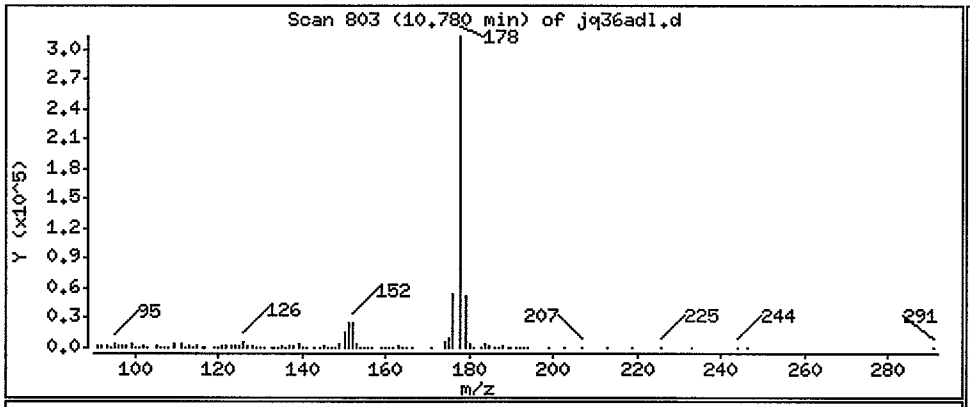
Operator: VTS

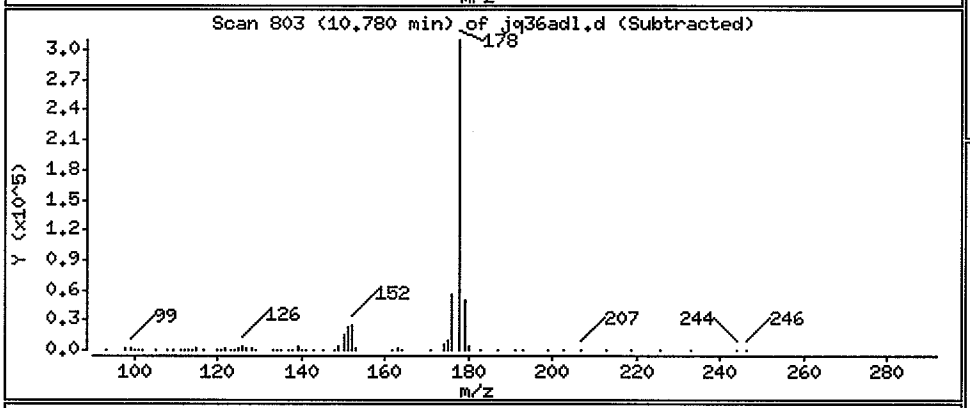
Column phase: ZB-5

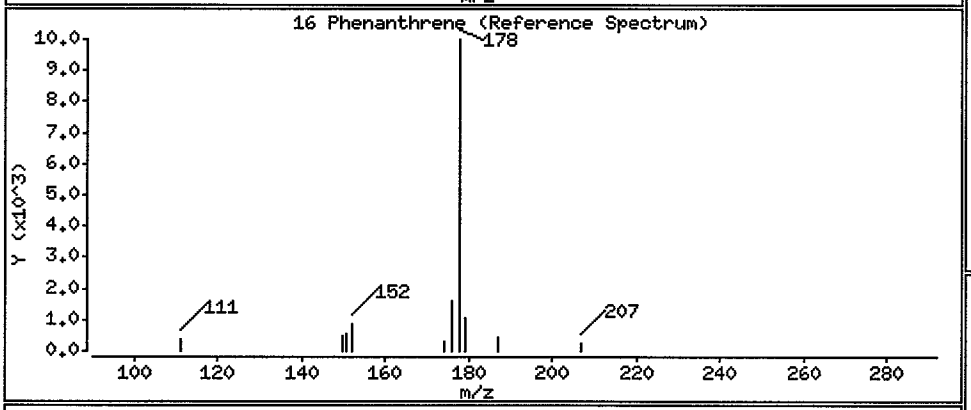
Column diameter: 0.25

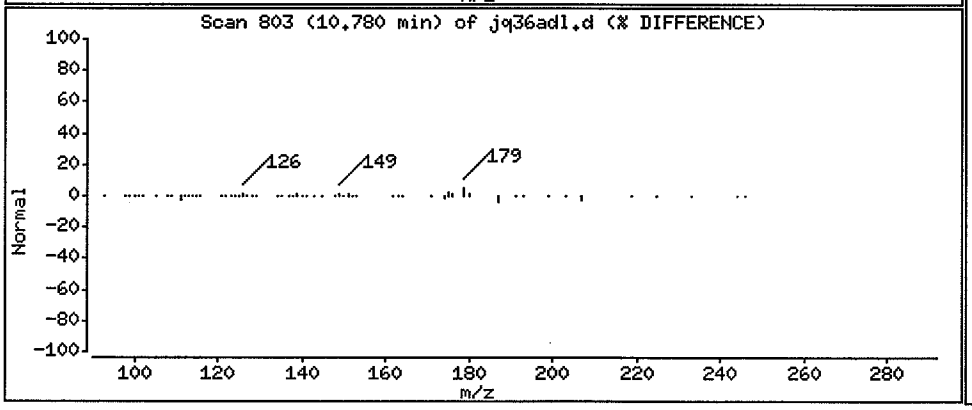
16 Phenanthrene

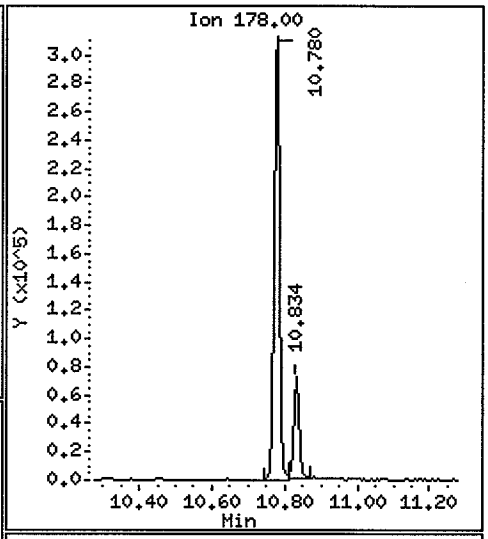
Concentration: 2450 ug/kg

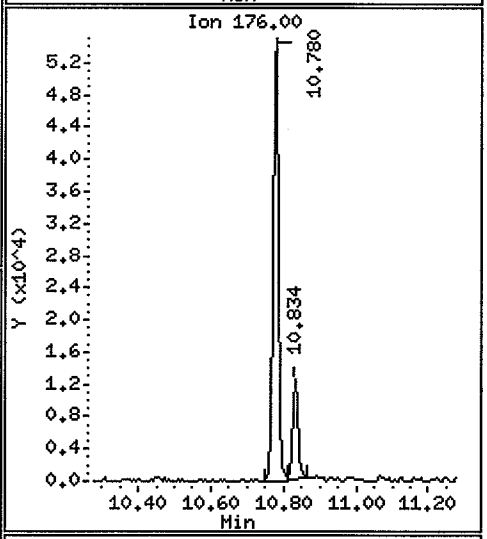


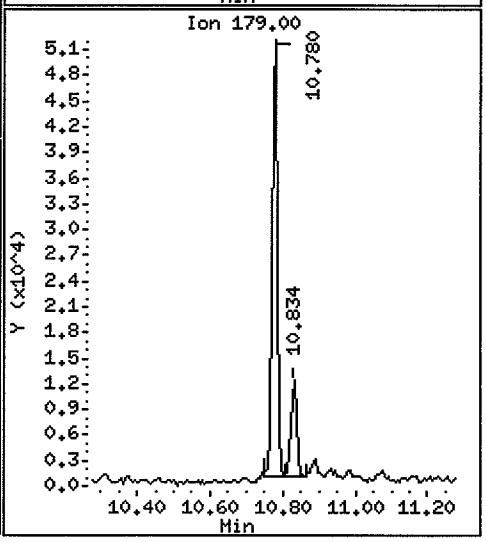












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

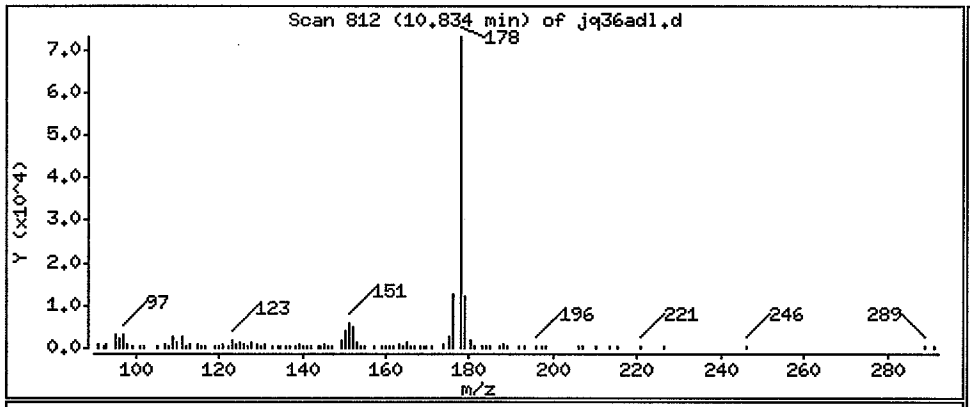
Operator: VTS

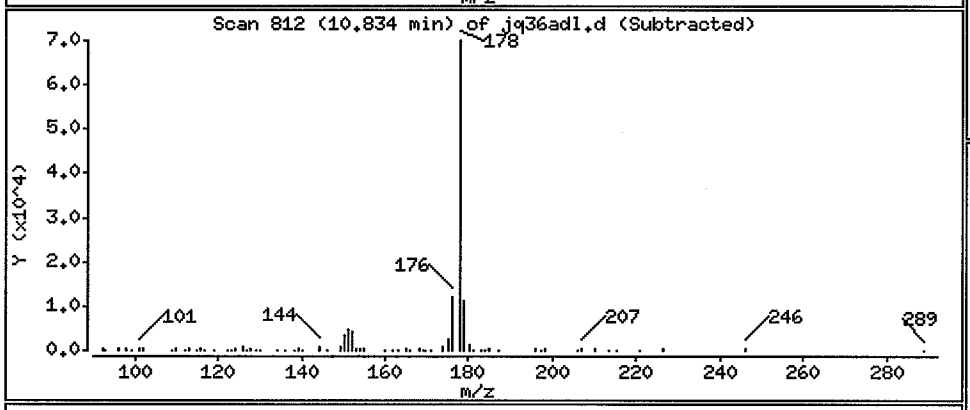
Column phase: ZB-5

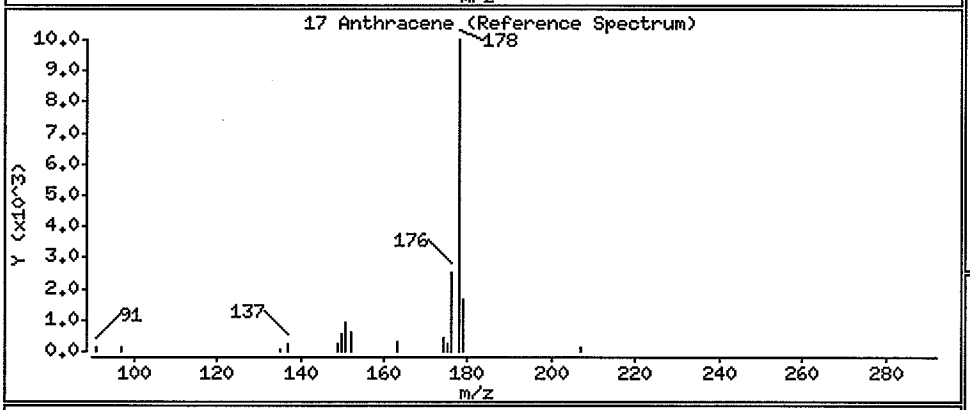
Column diameter: 0.25

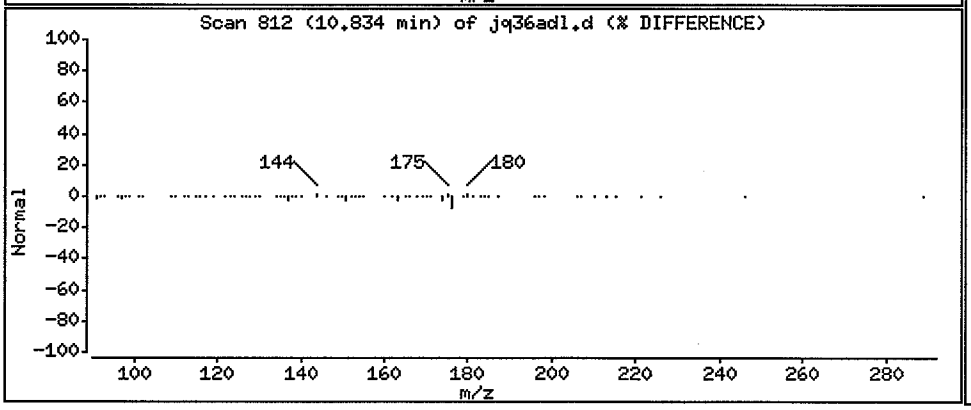
17 Anthracene

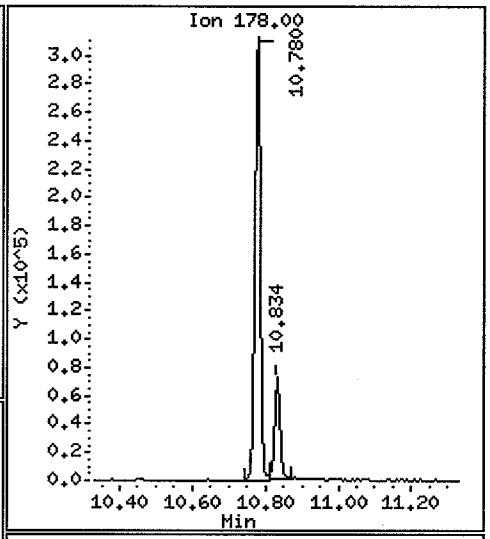
Concentration: 551.7 ug/kg

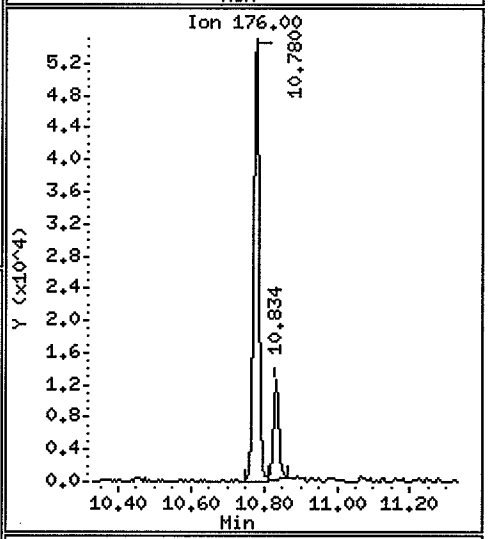


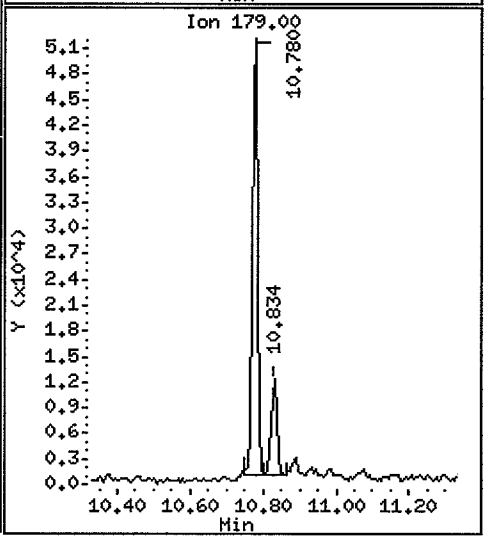












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

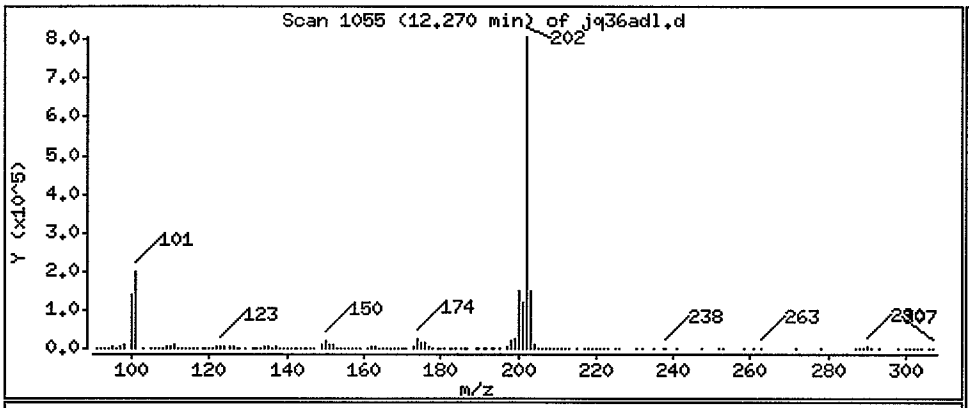
Operator: VTS

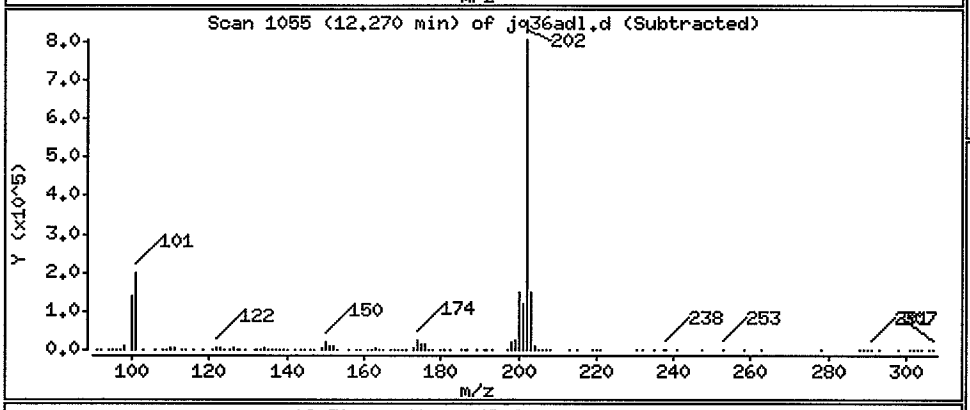
Column phase: ZB-5

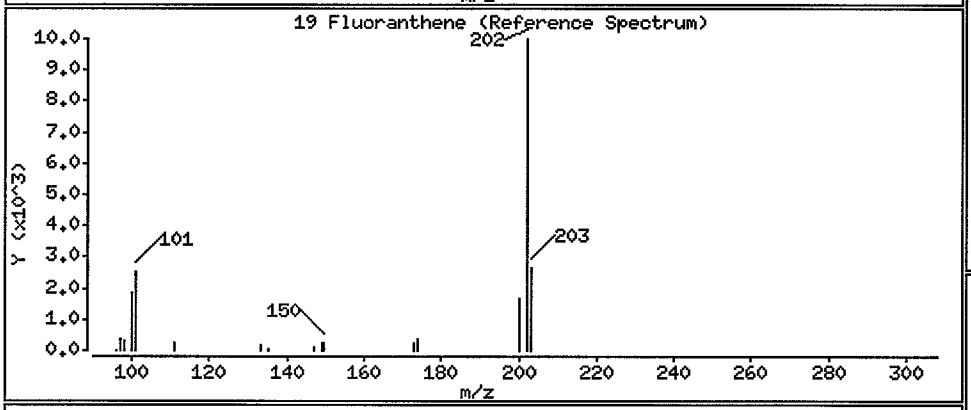
Column diameter: 0.25

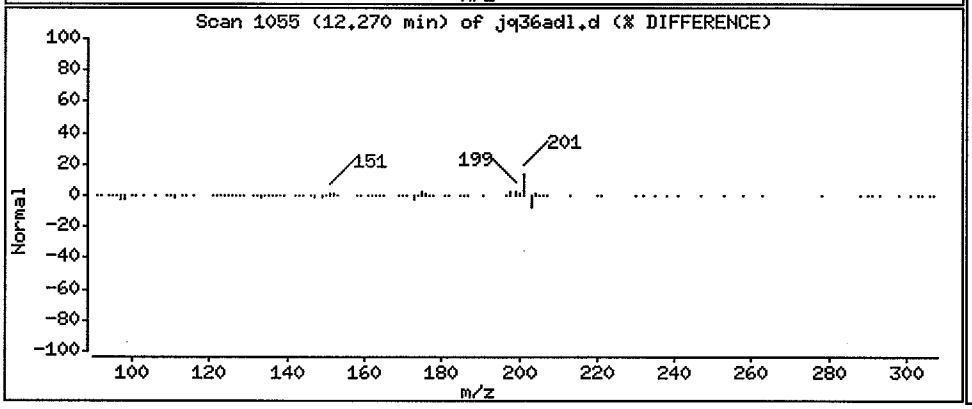
19 Fluoranthene

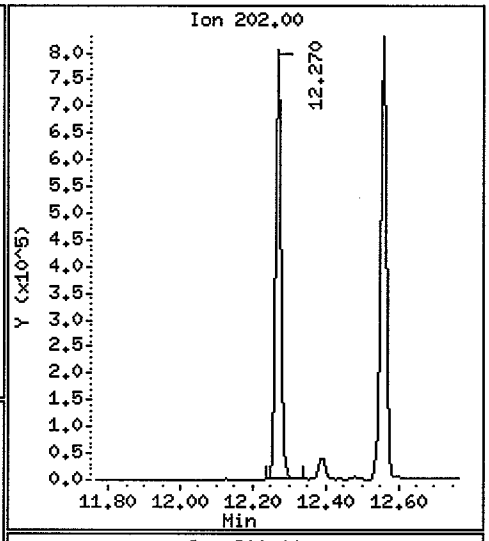
Concentration: 6020 ug/kg

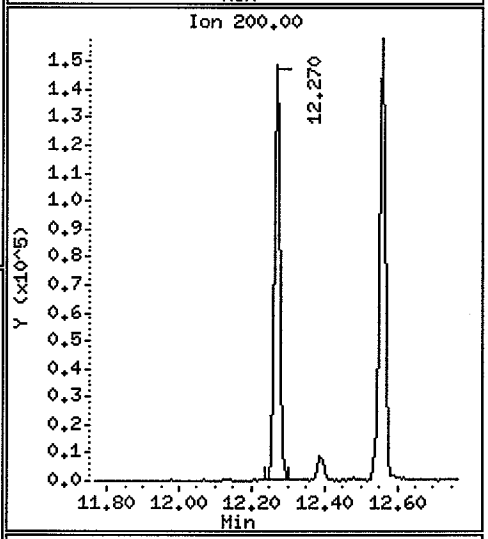


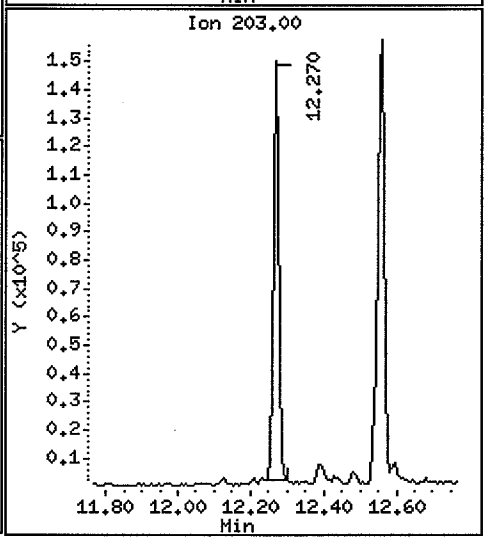












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

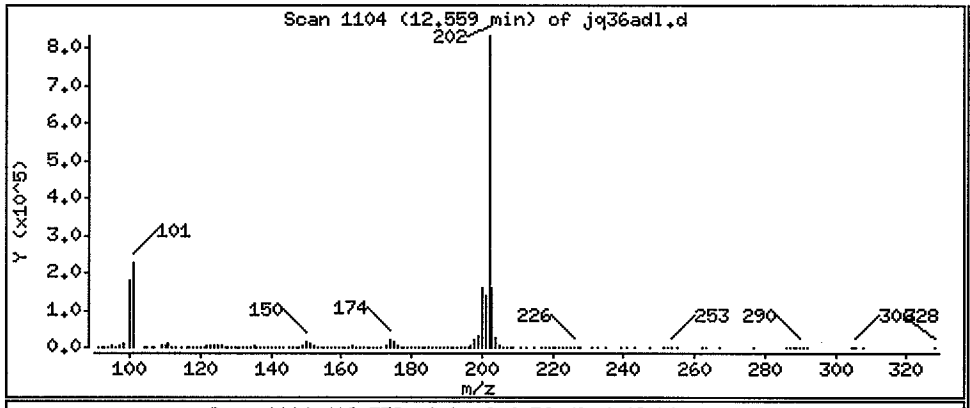
Operator: VTS

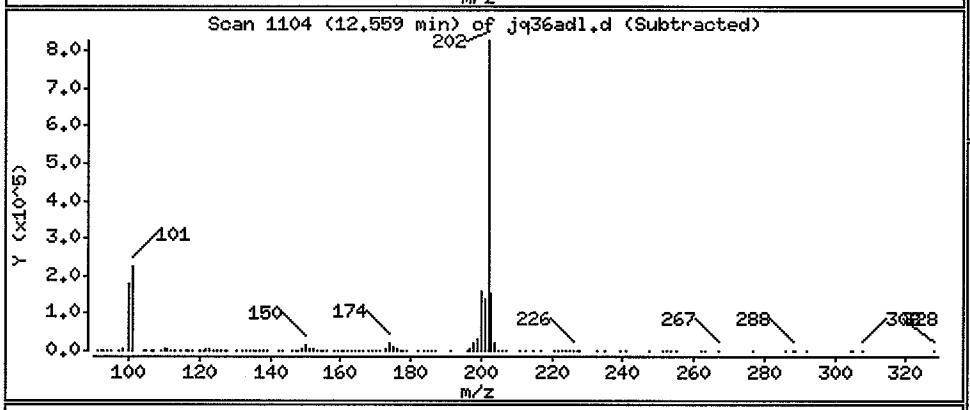
Column phase: ZB-5

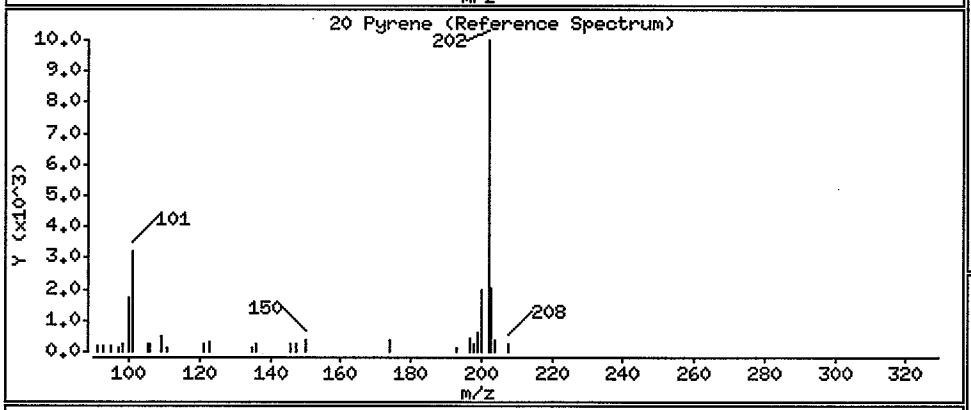
Column diameter: 0.25

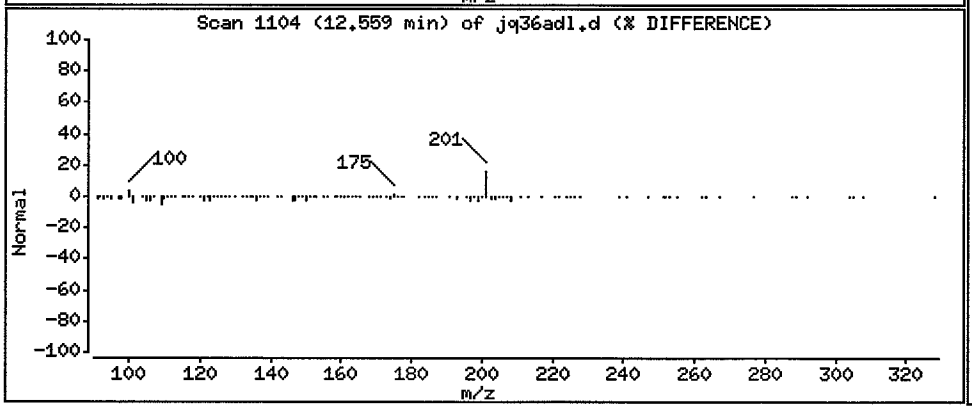
20 Pyrene

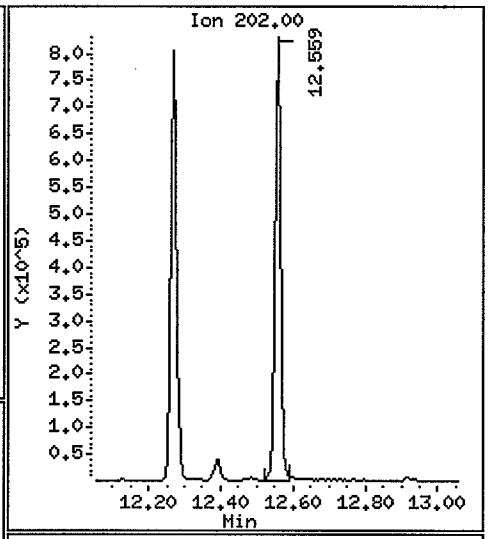
Concentration: 5782 ug/kg

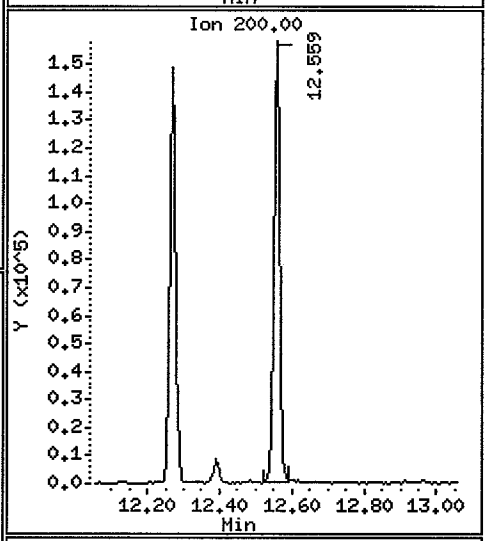


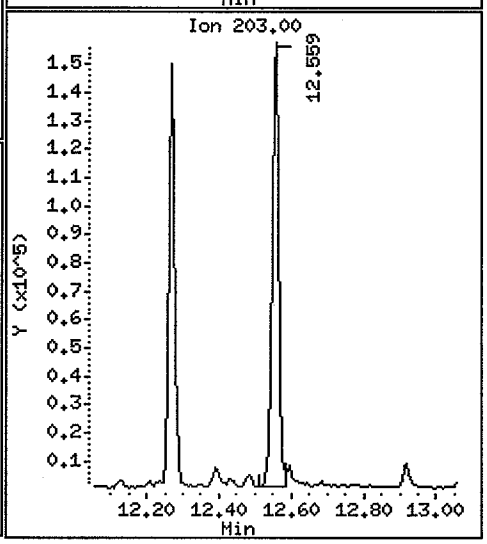












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

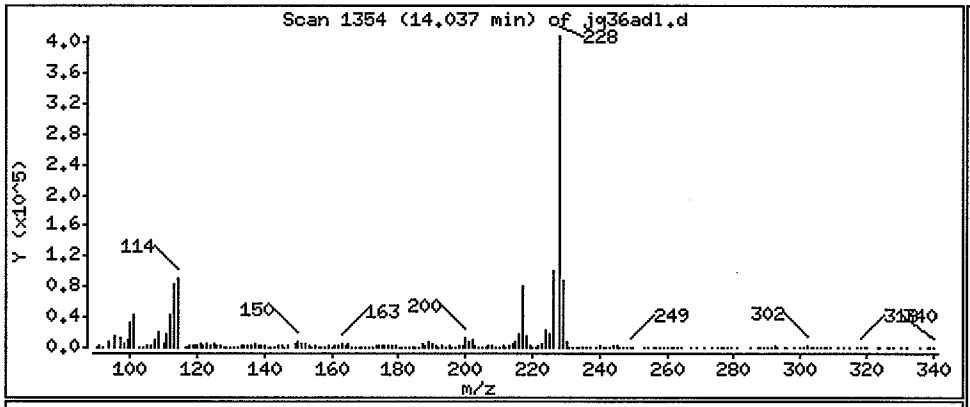
Operator: VTS

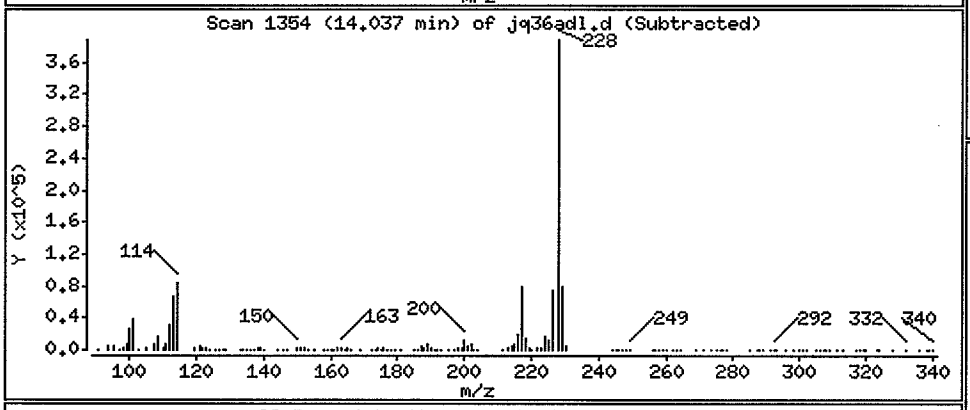
Column phase: ZB-5

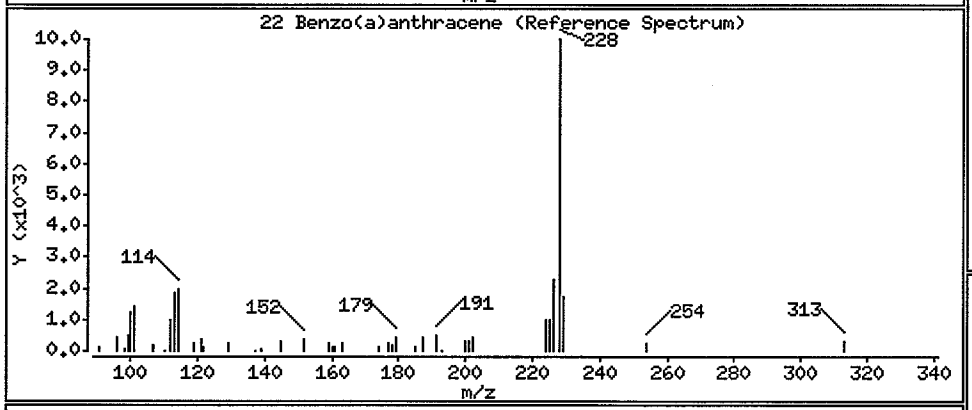
Column diameter: 0.25

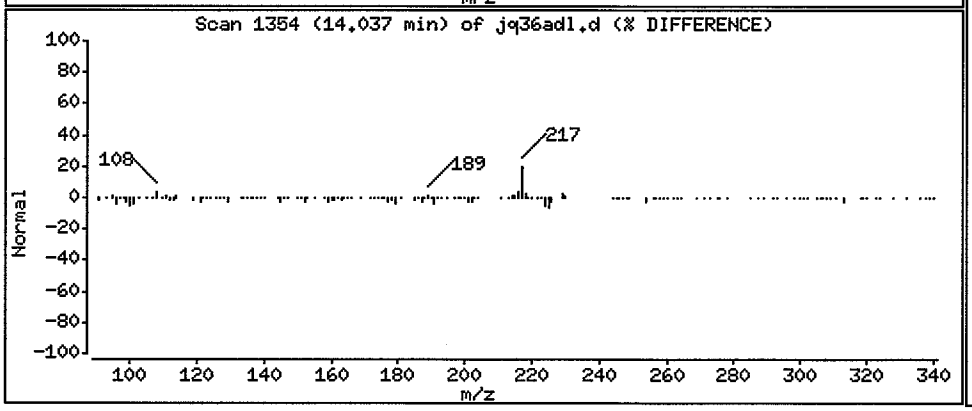
22 Benzo(a)anthracene

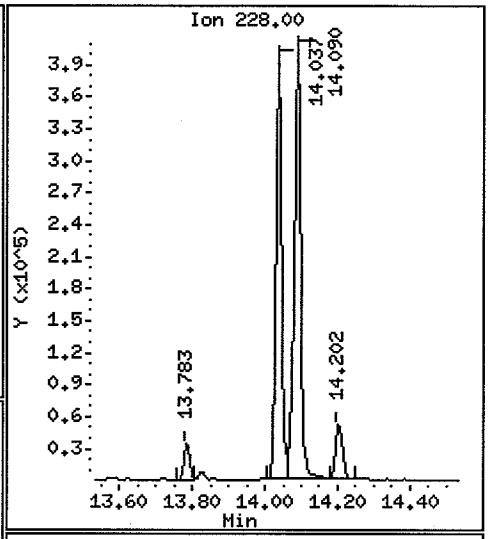
Concentration: 2958 ug/kg

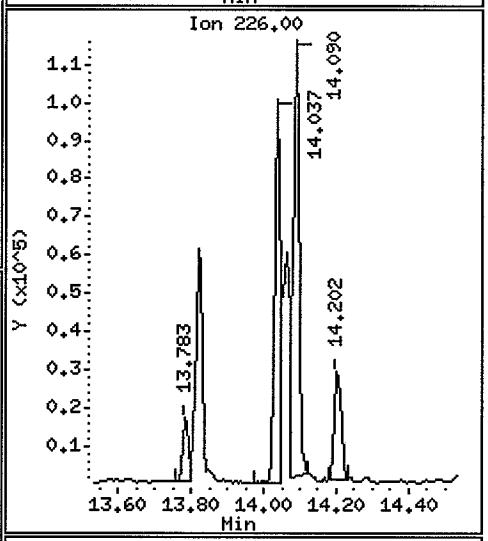


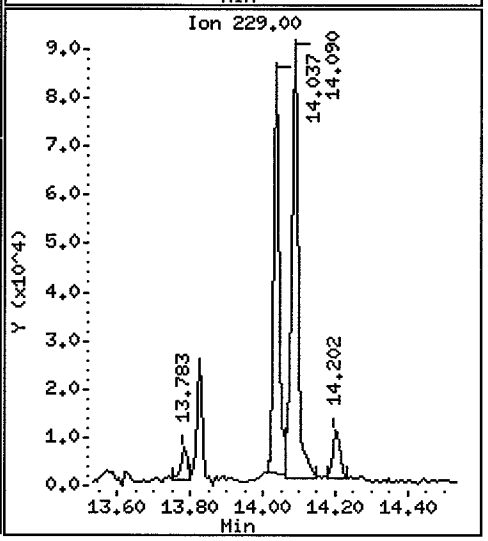












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

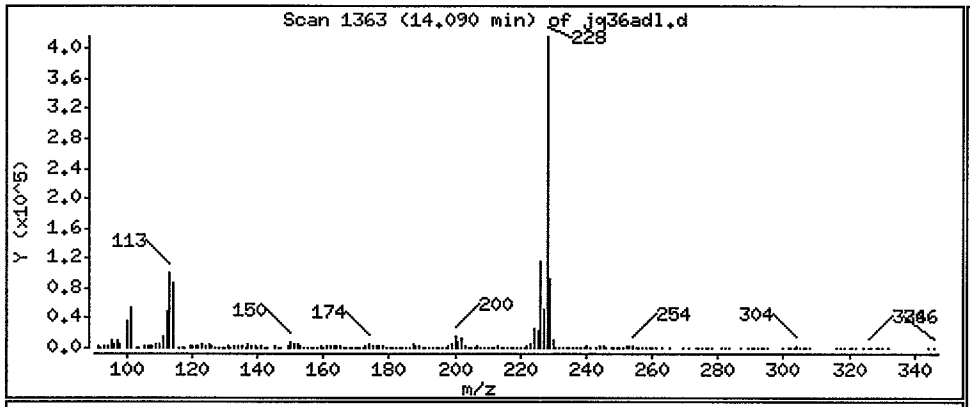
Operator: VTS

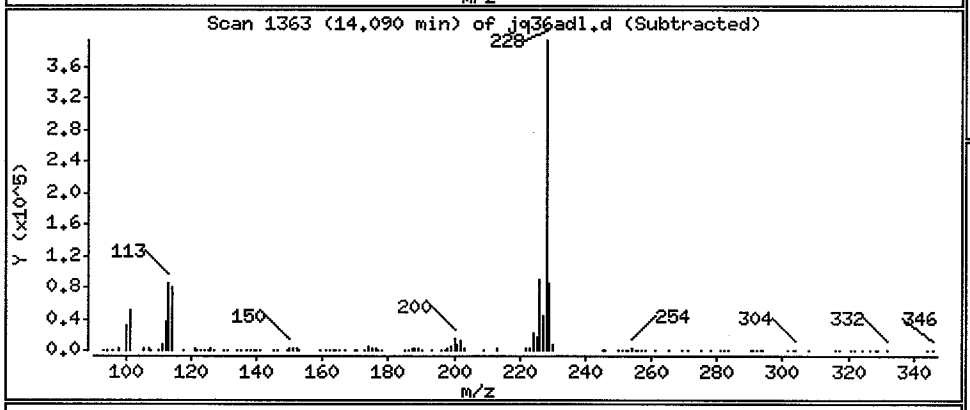
Column phase: ZB-5

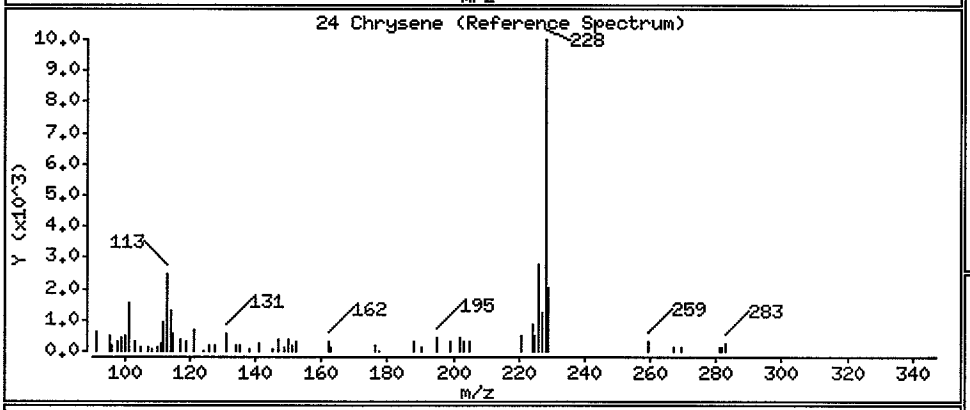
Column diameter: 0.25

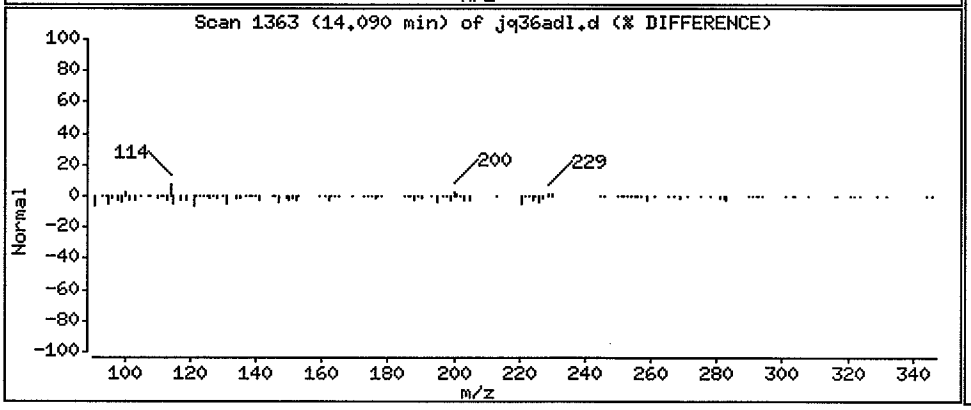
24 Chrysene

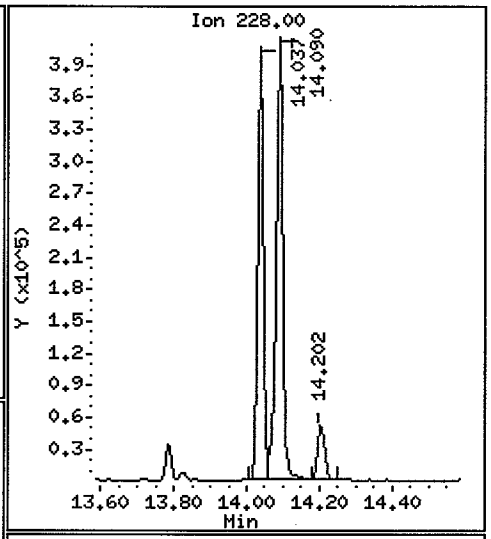
Concentration: 3782 ug/kg

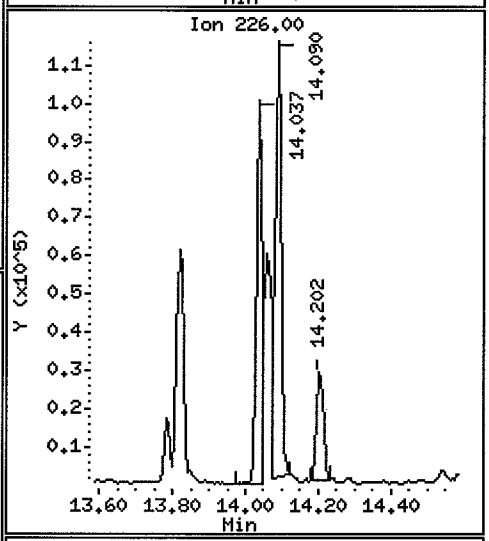


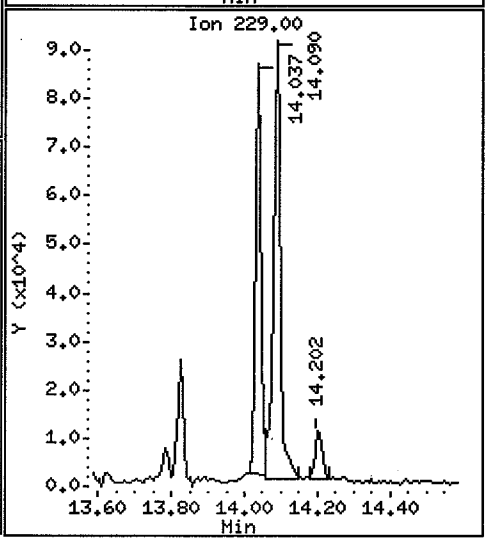












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

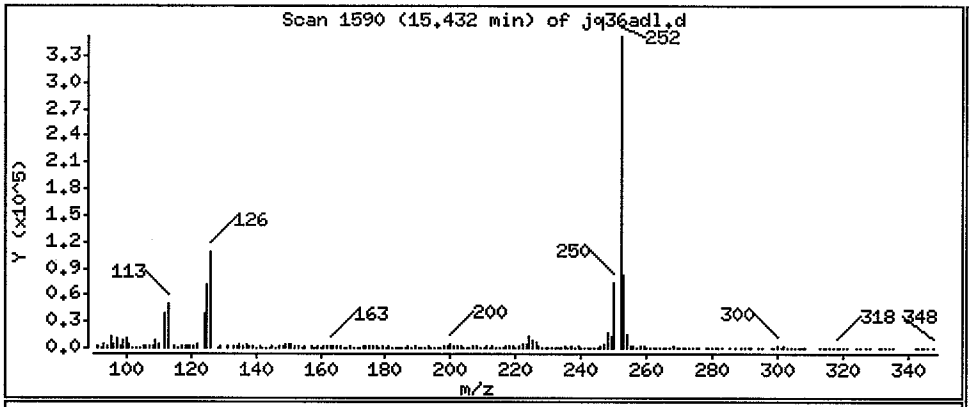
Operator: VTS

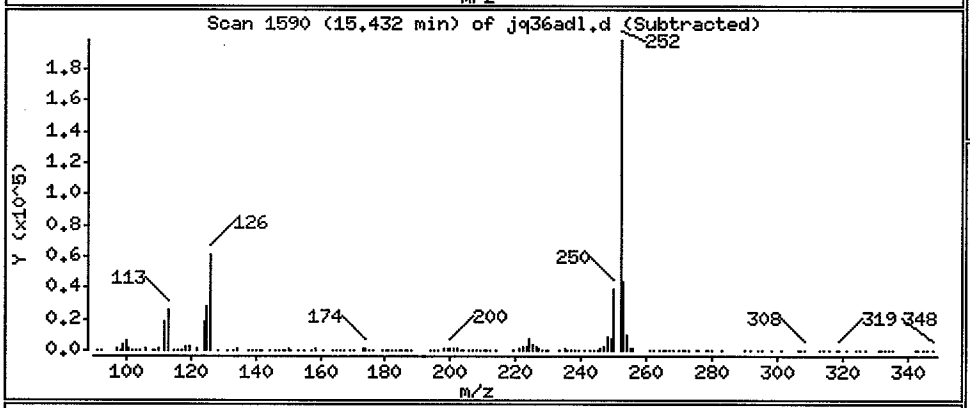
Column phase: ZB-5

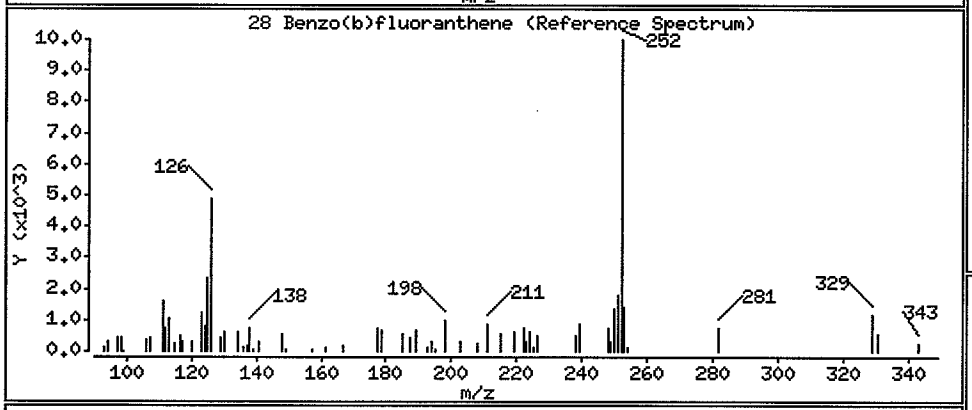
Column diameter: 0.25

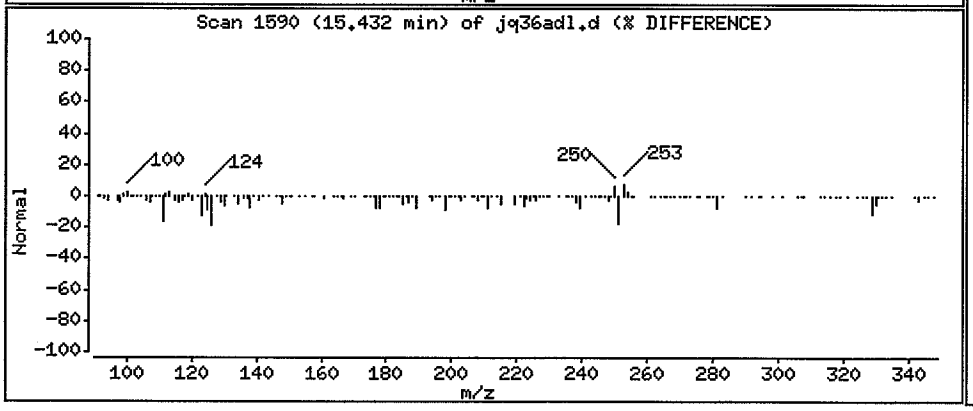
28 Benzo(b)fluoranthene

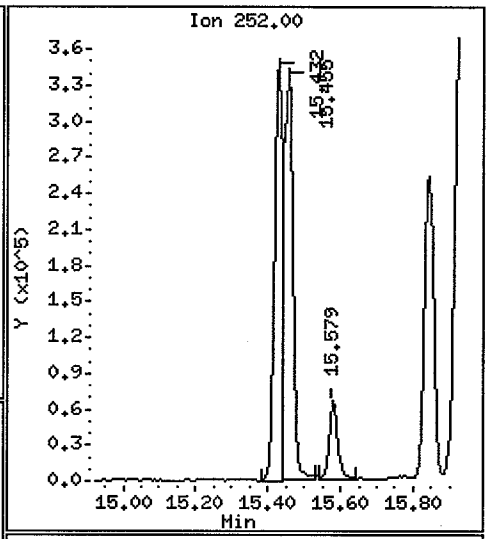
Concentration: 3749 ug/kg

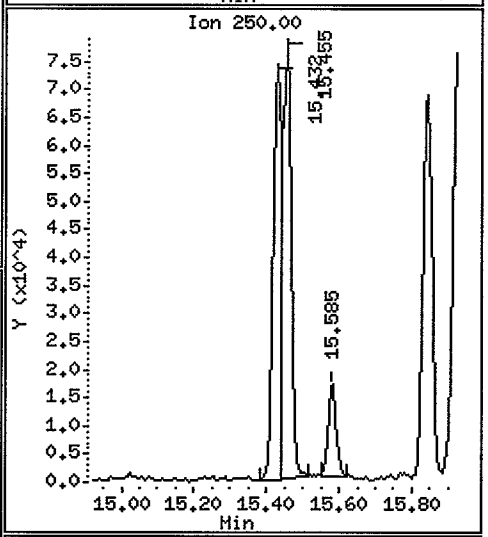


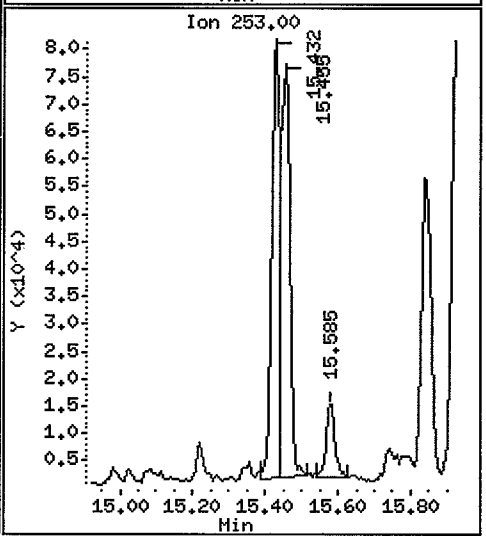












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

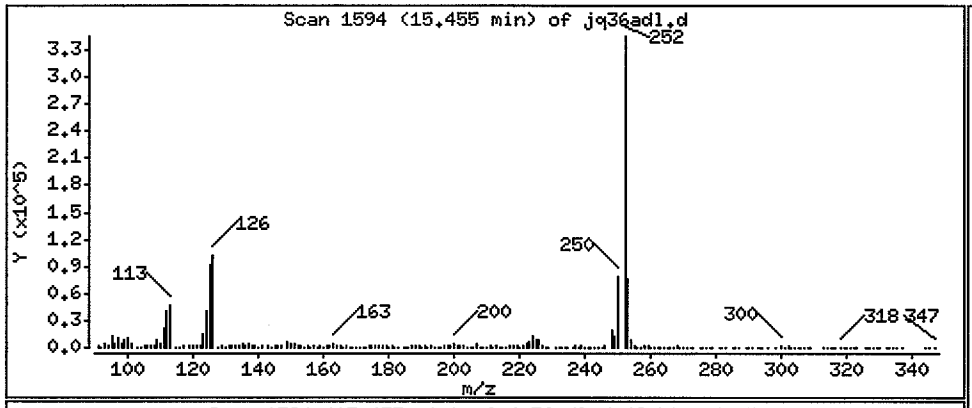
Operator: VTS

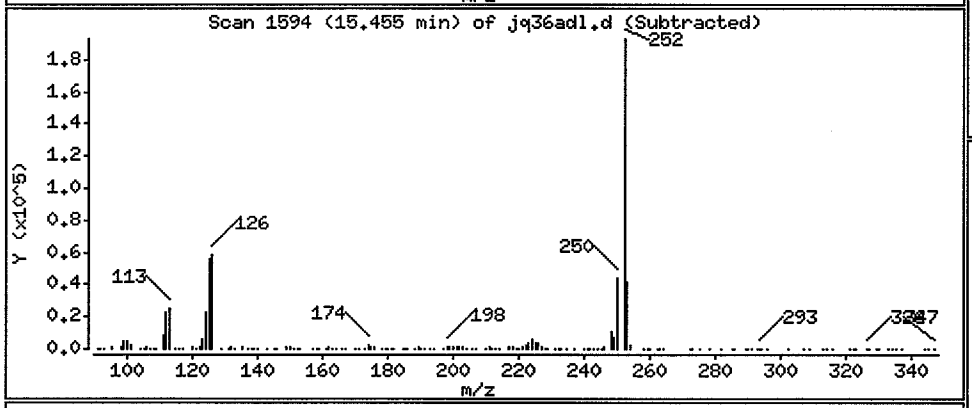
Column phase: ZB-5

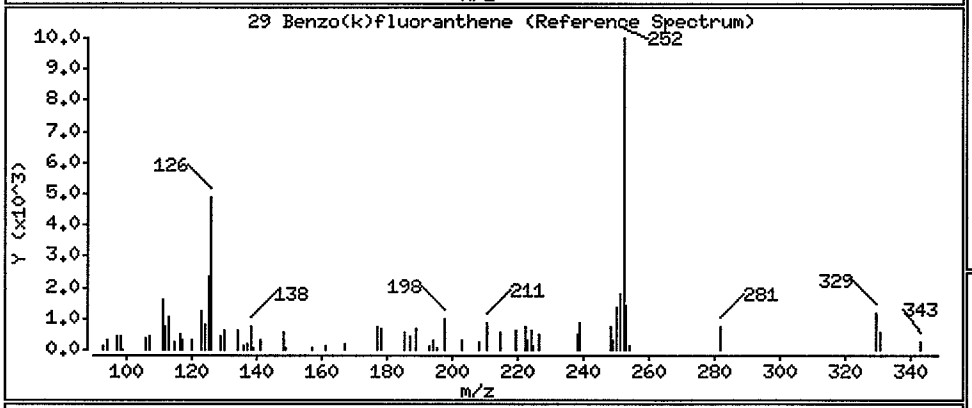
Column diameter: 0.25

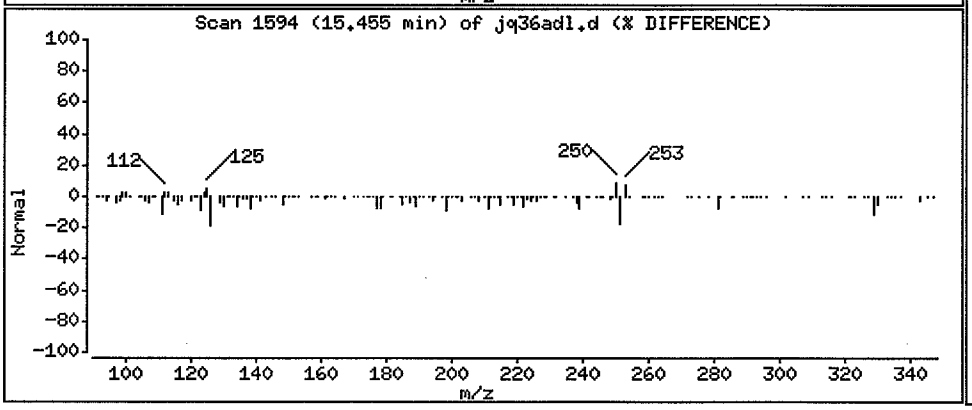
29 Benzo(k)fluoranthene

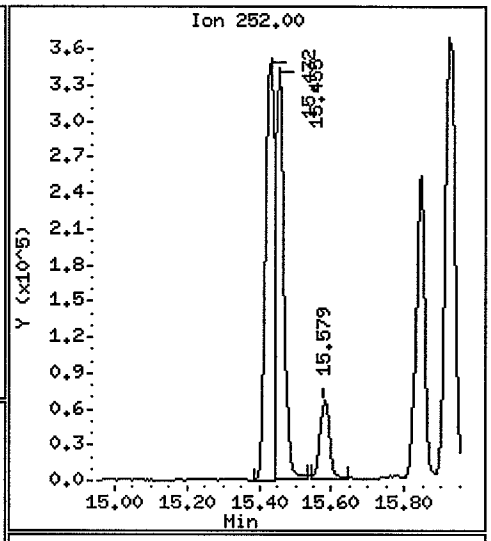
Concentration: 3435 ug/kg

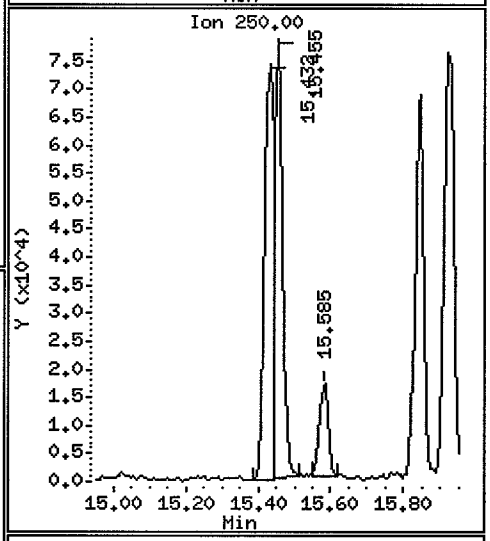


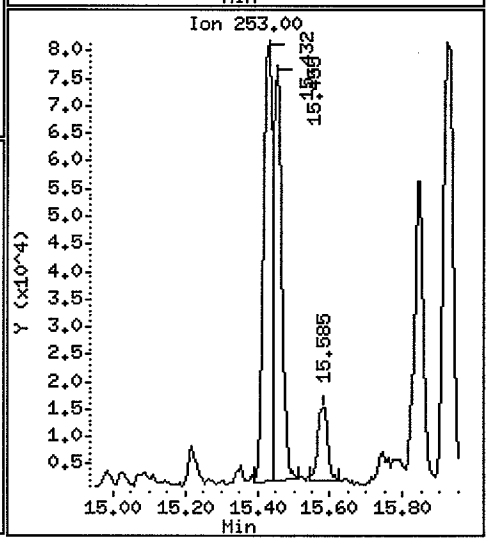












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

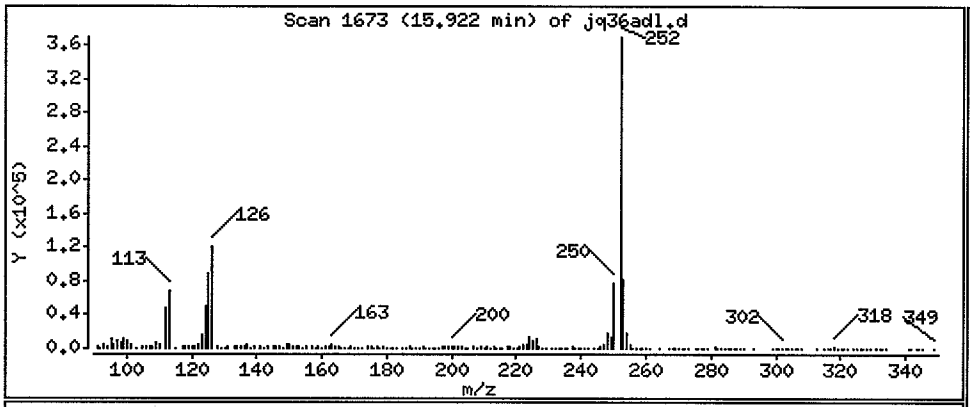
Operator: VTS

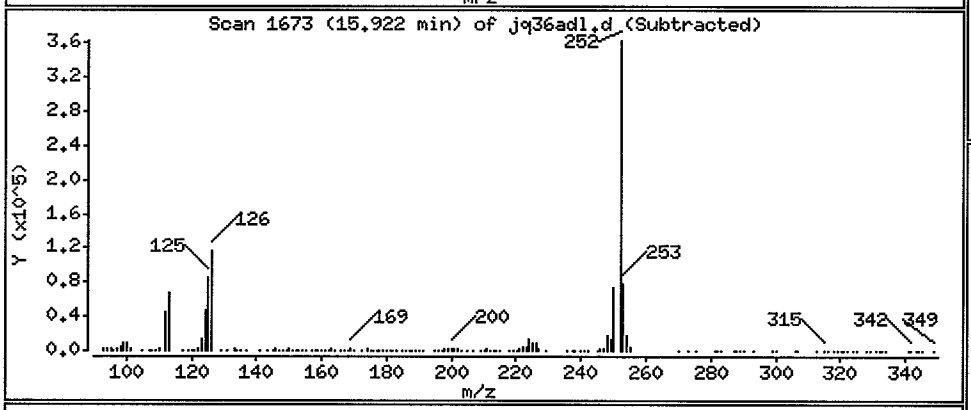
Column phase: ZB-5

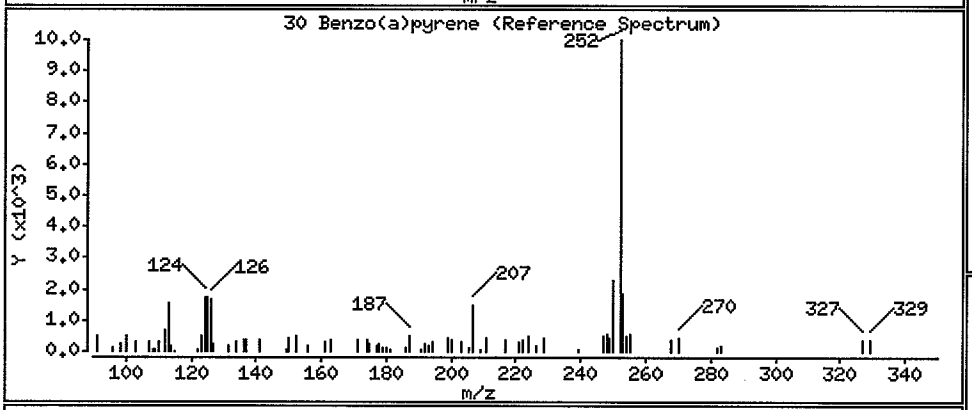
Column diameter: 0.25

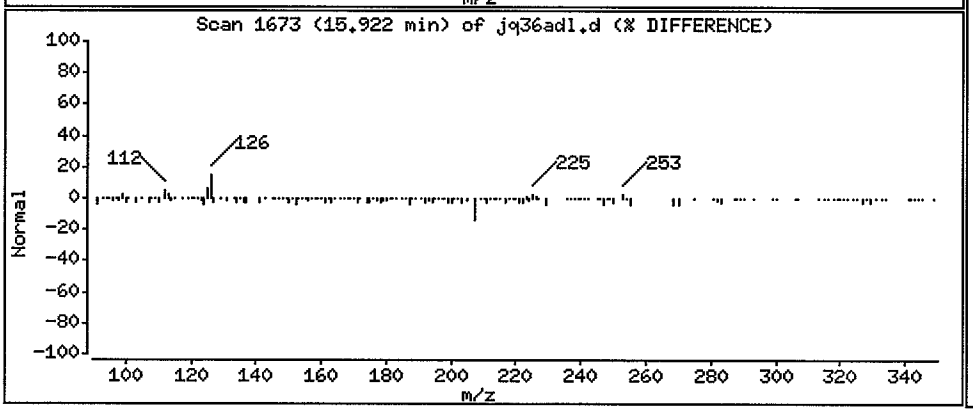
30 Benzo(a)pyrene

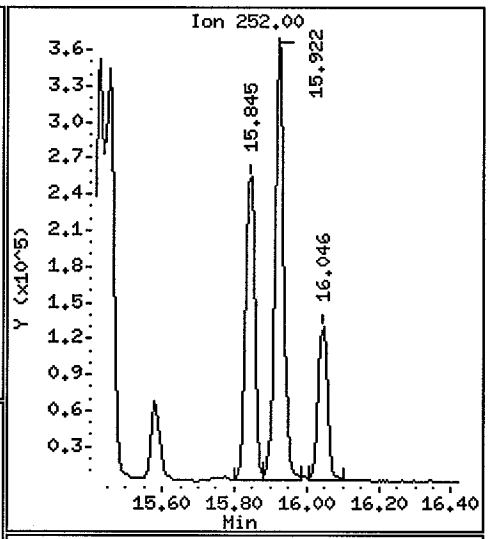
Concentration: 4145 ug/kg

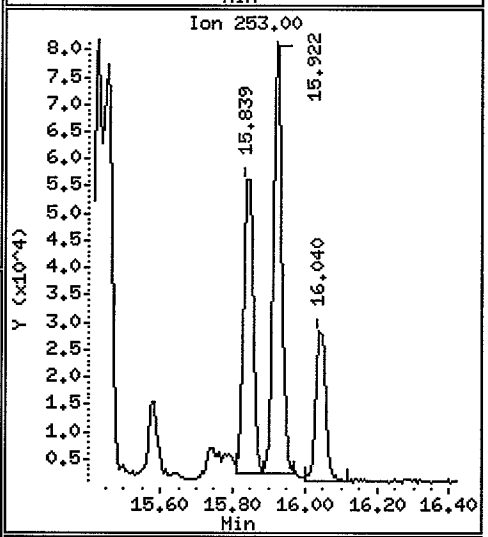


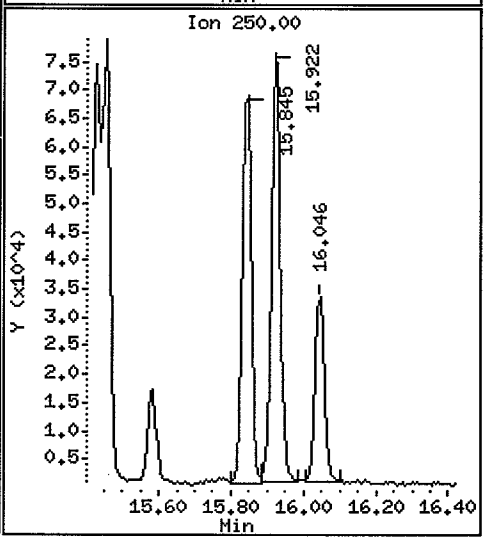












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

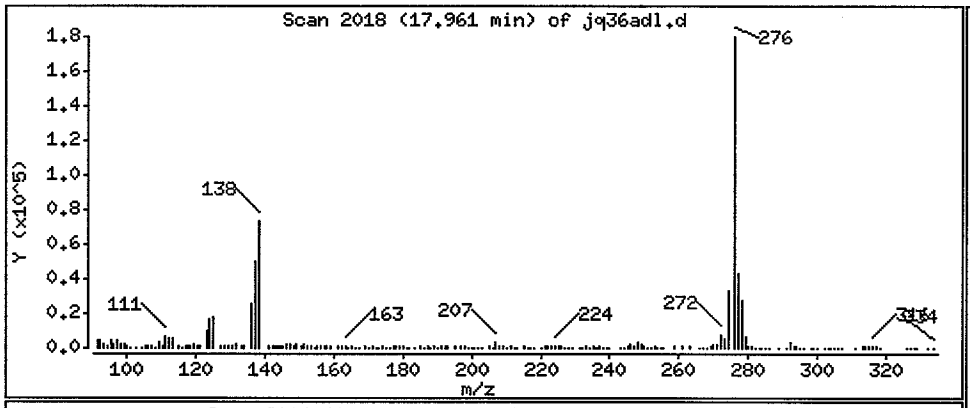
Operator: VTS

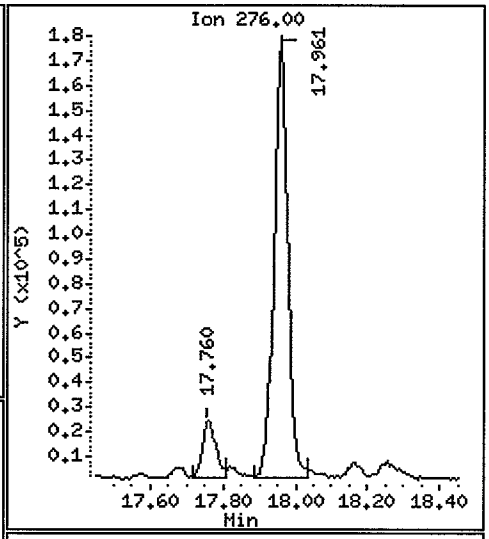
Column phase: ZB-5

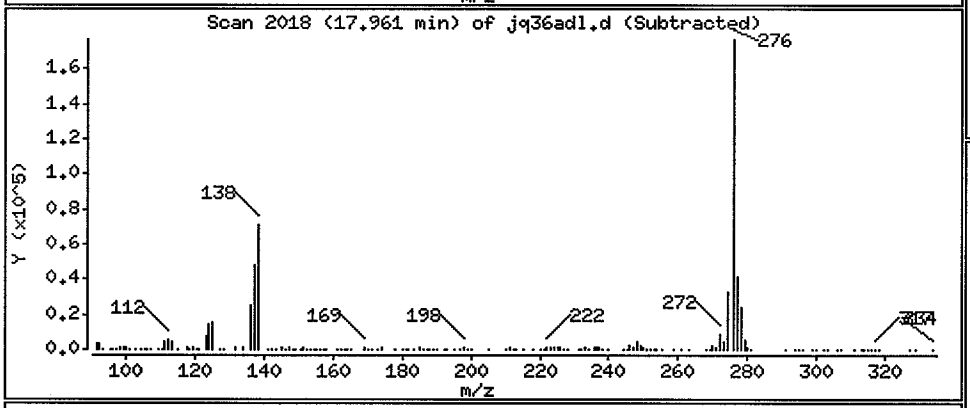
Column diameter: 0.25

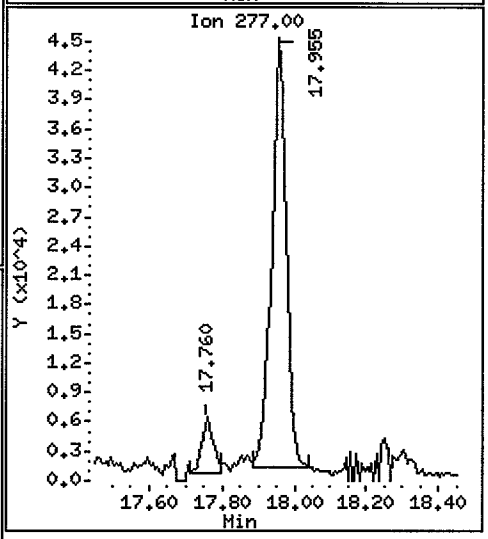
33 Indeno(1,2,3-cd)pyrene

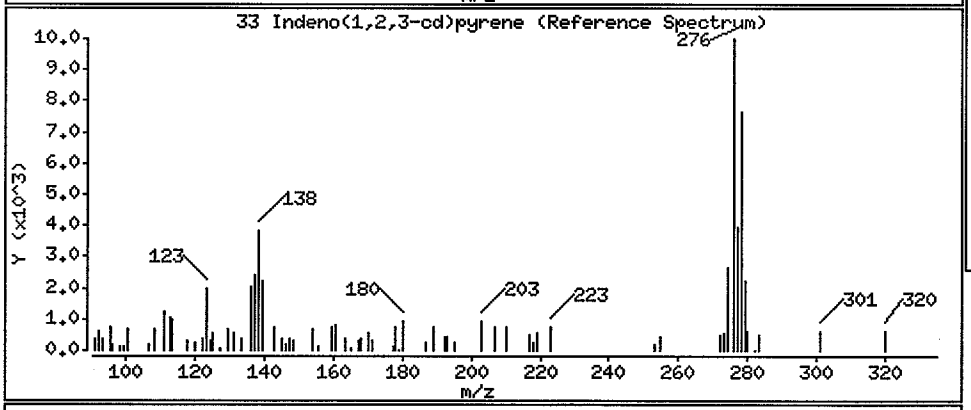
Concentration: 2618 ug/kg

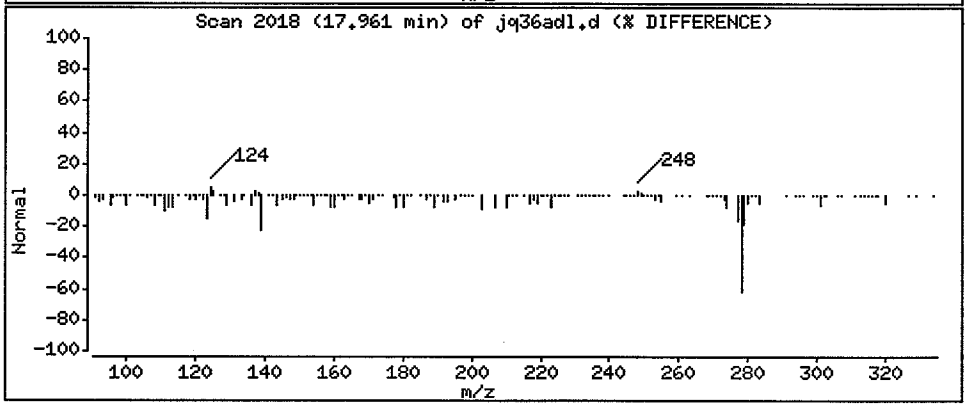












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

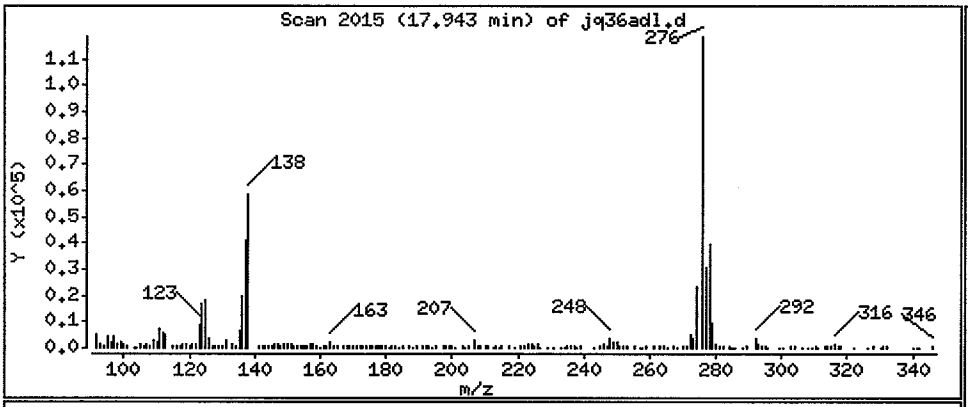
Operator: VTS

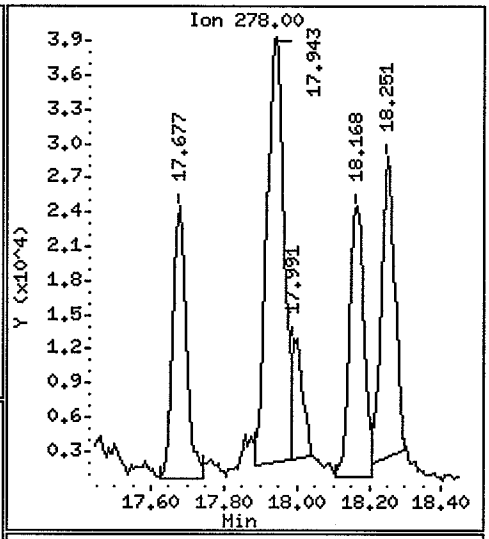
Column phase: ZB-5

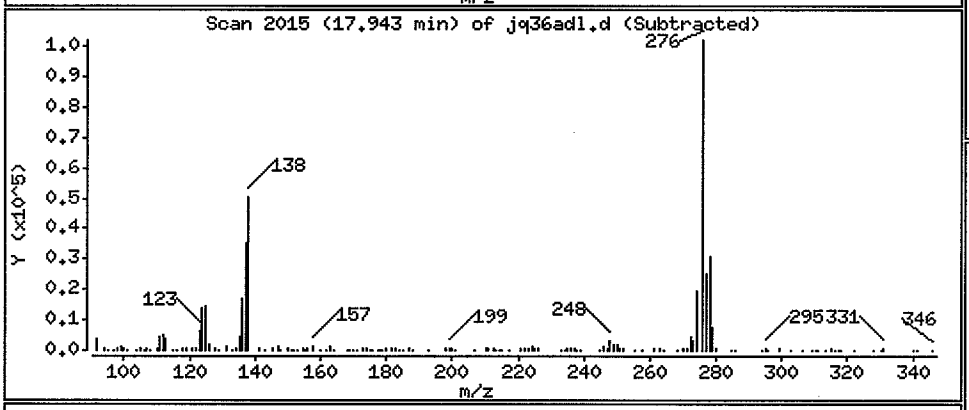
Column diameter: 0.25

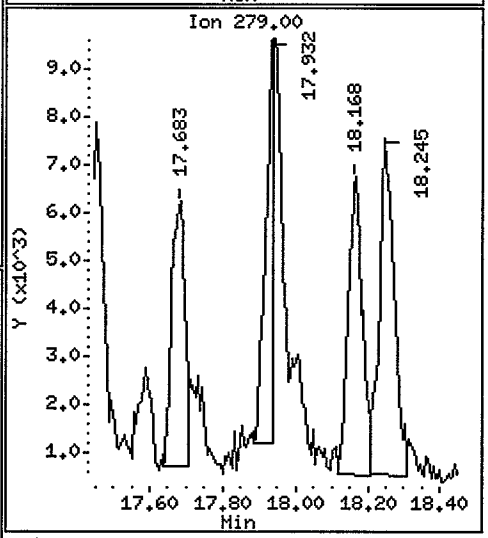
34 Dibenz(a,h)anthracene

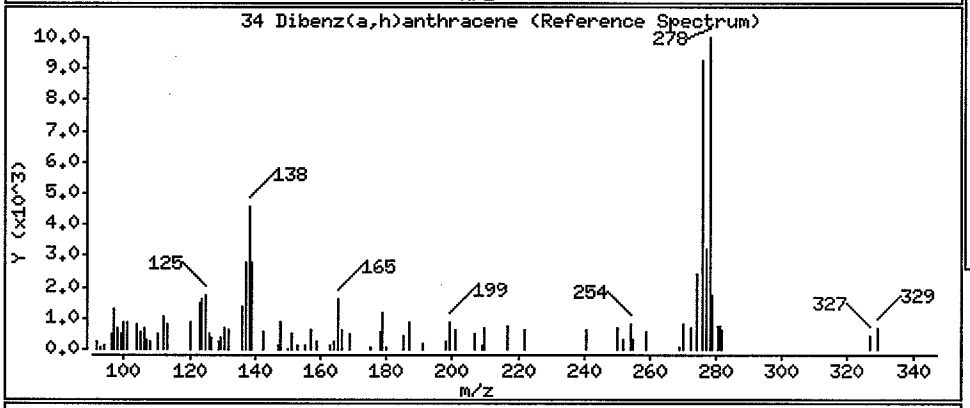
Concentration: 835.8 ug/kg

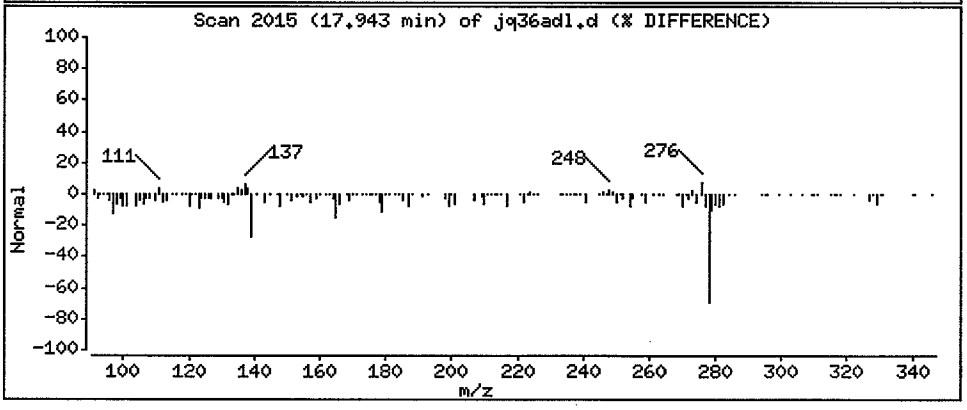












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

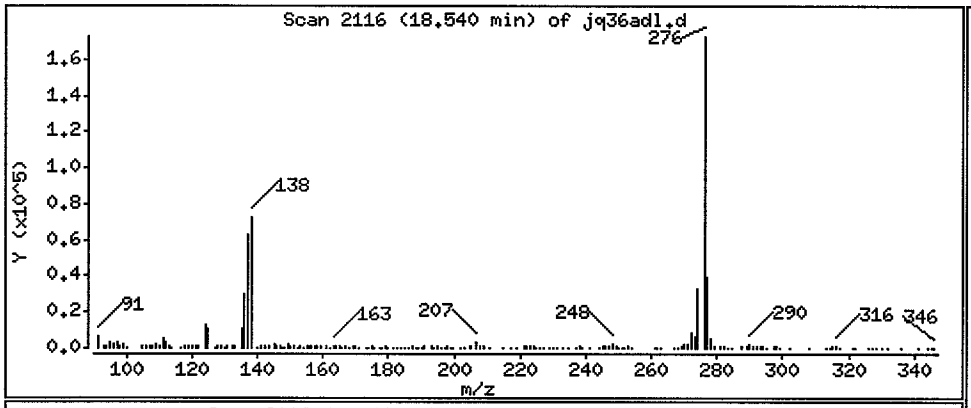
Operator: VTS

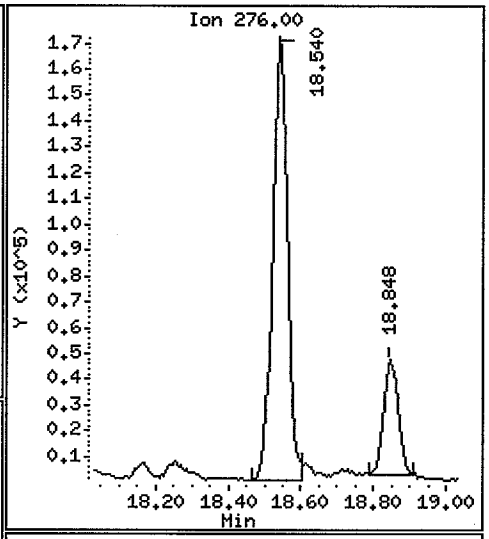
Column phase: ZB-5

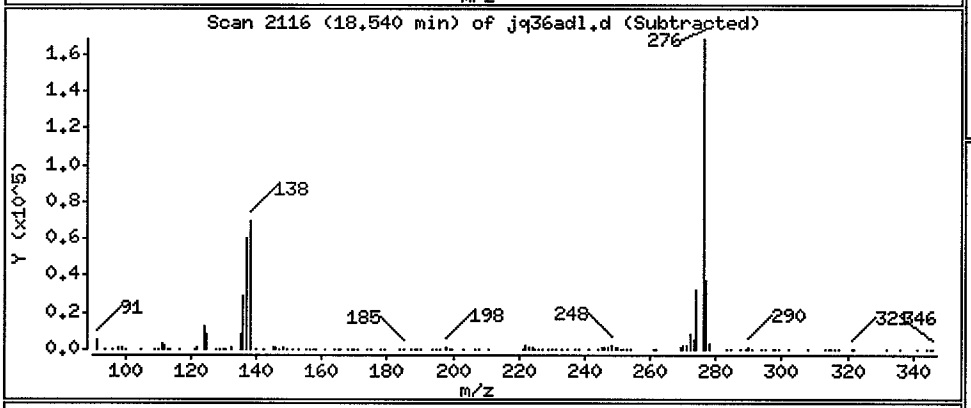
Column diameter: 0.25

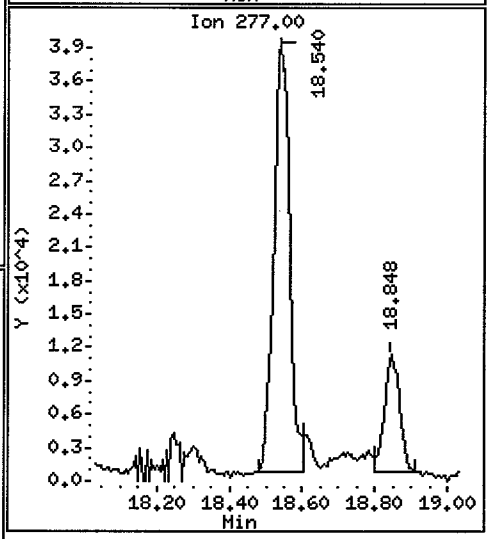
35 Benzo(g,h,i)perylene

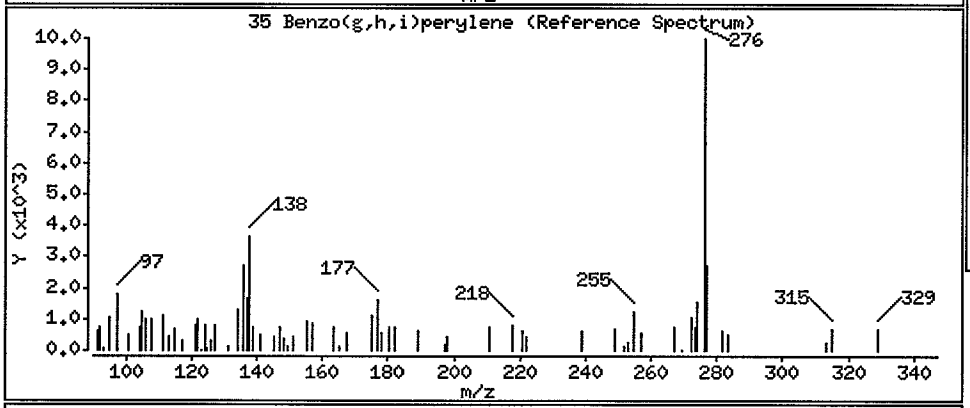
Concentration: 3240 ug/kg

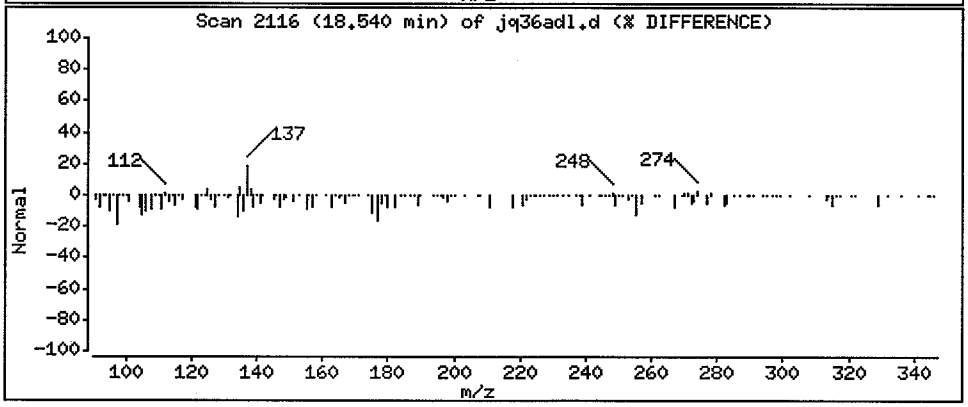












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

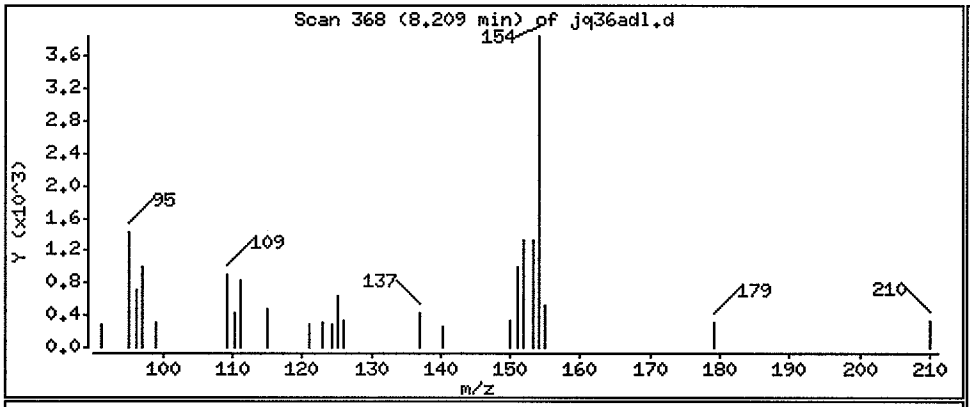
Operator: VTS

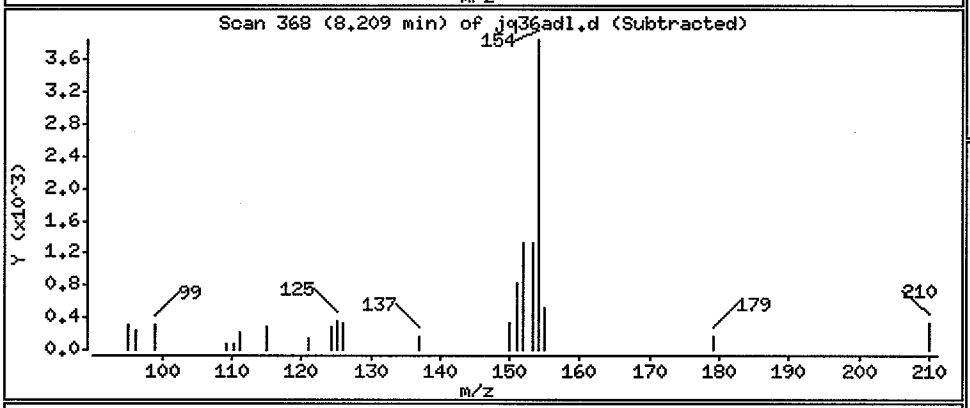
Column phase: ZB-5

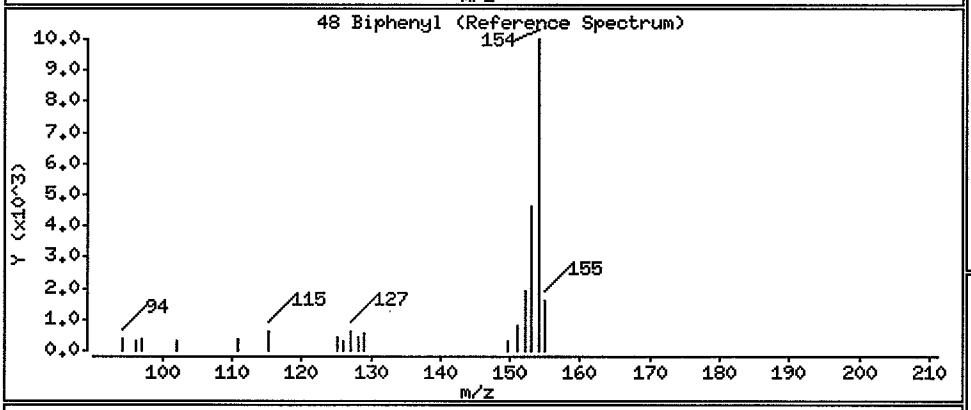
Column diameter: 0.25

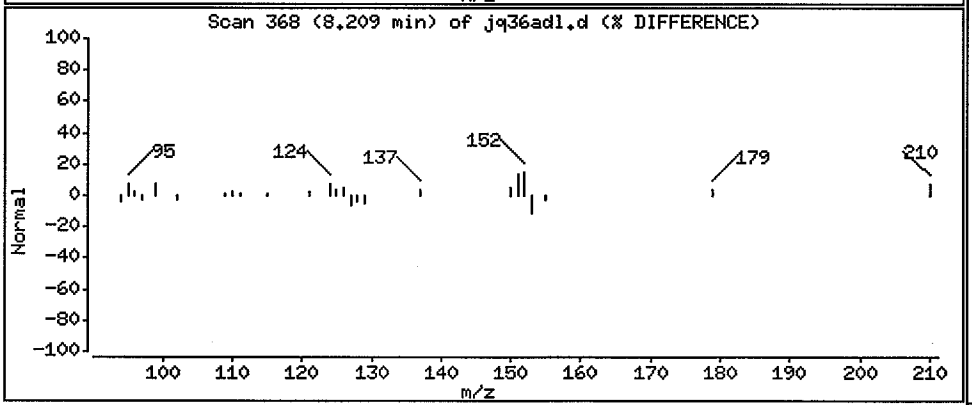
48 Biphenyl

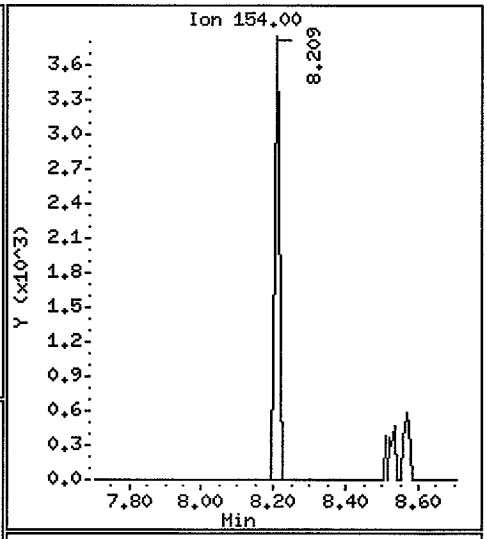
Concentration: 34.45 ug/kg

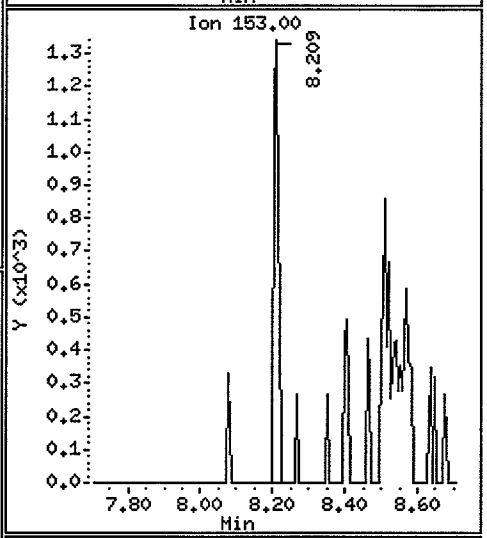


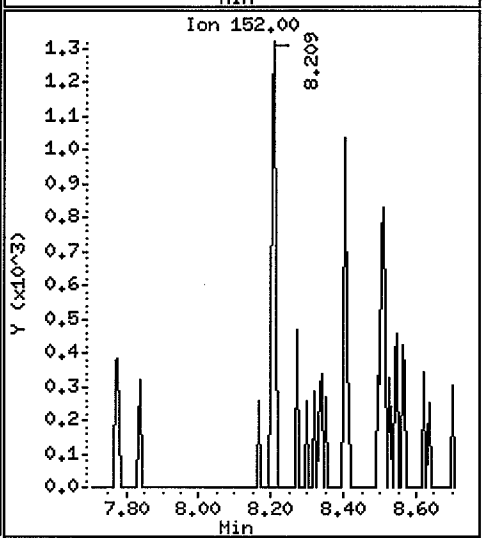












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

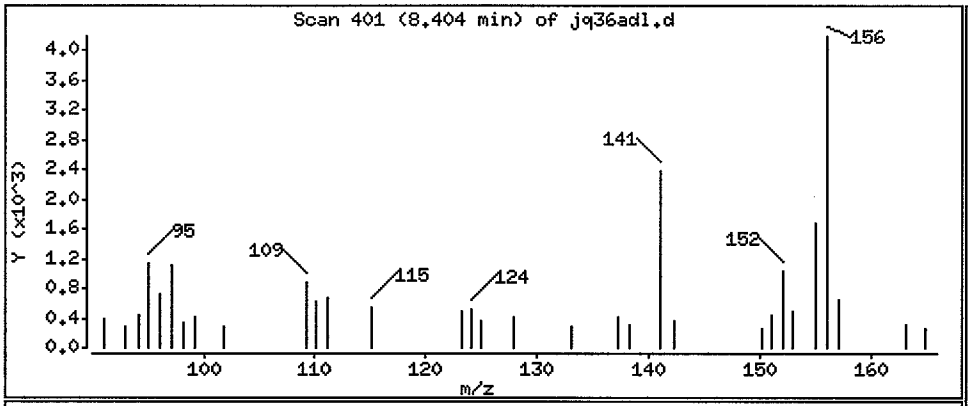
Operator: VTS

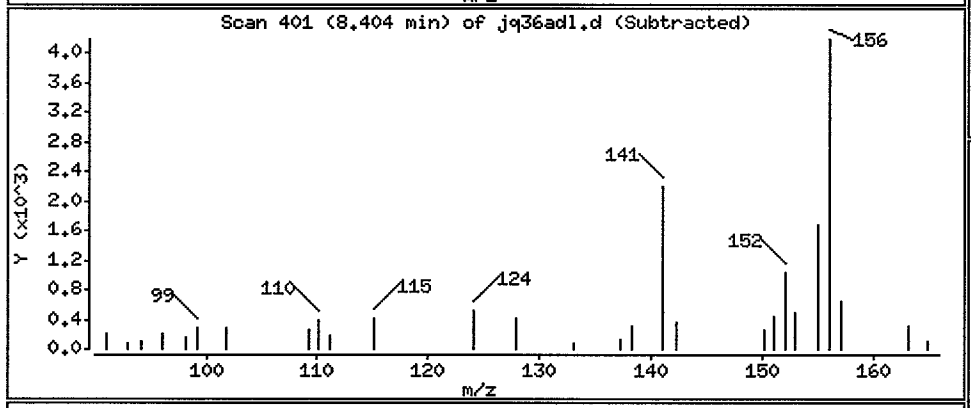
Column phase: ZB-5

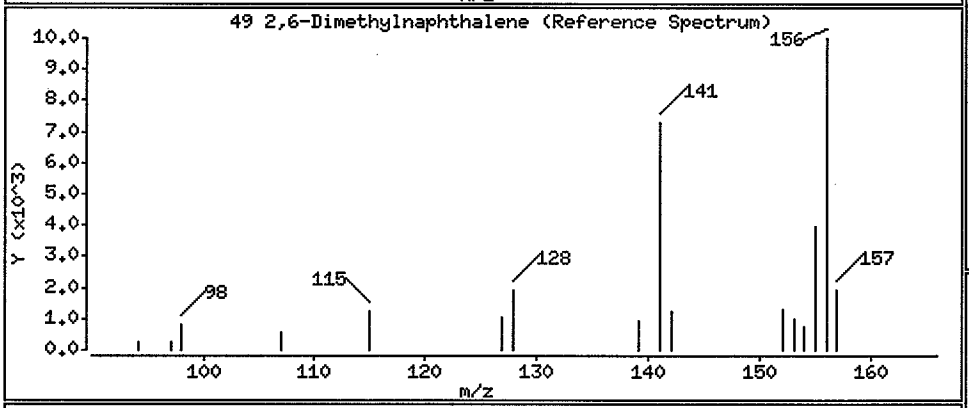
Column diameter: 0.25

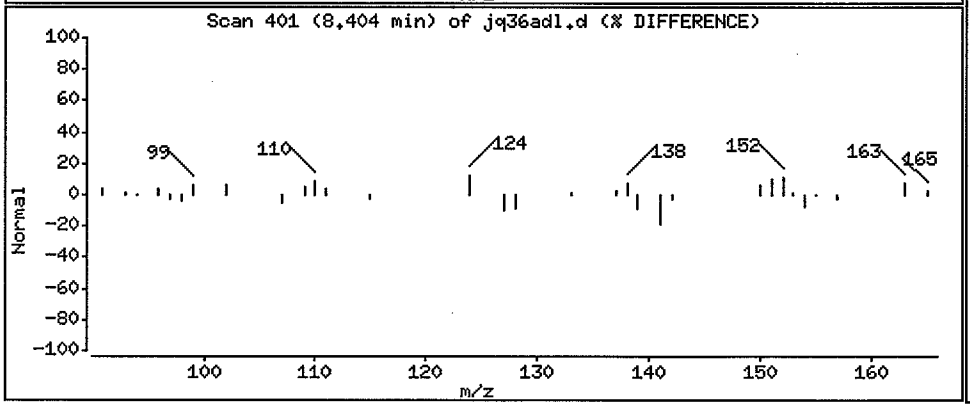
49 2,6-Dimethylnaphthalene

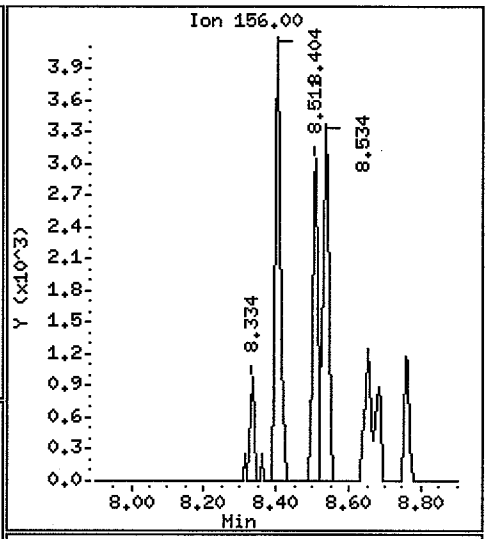
Concentration: 51.69 ug/kg

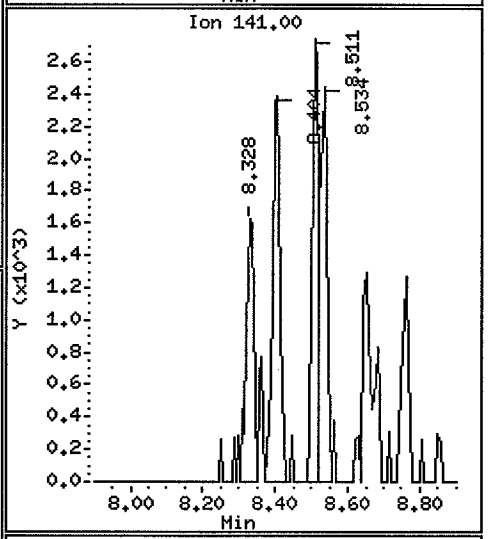


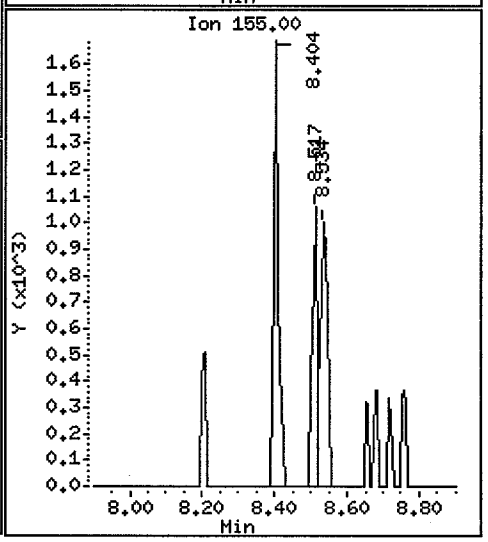












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

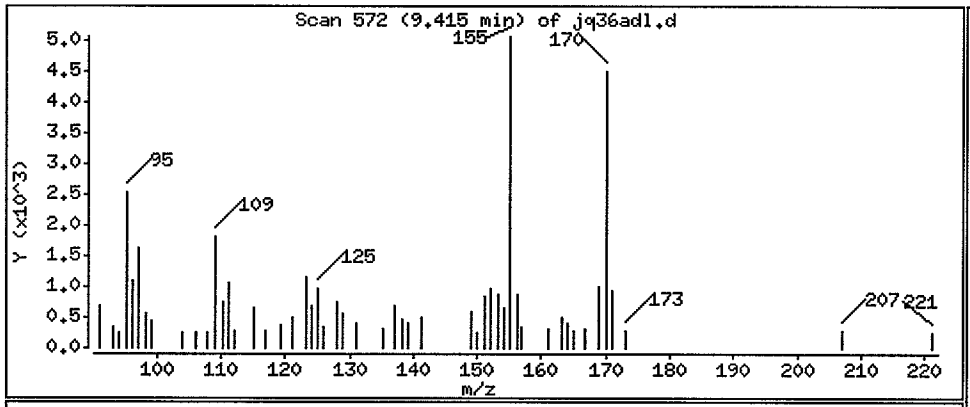
Operator: VTS

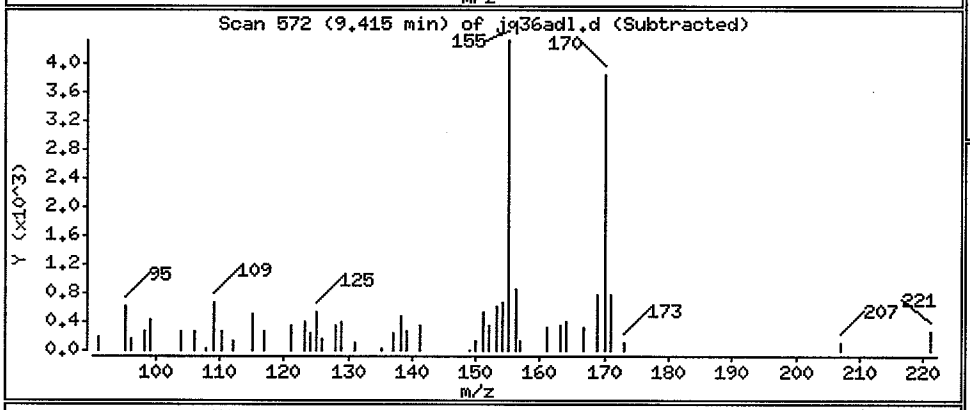
Column phase: ZB-5

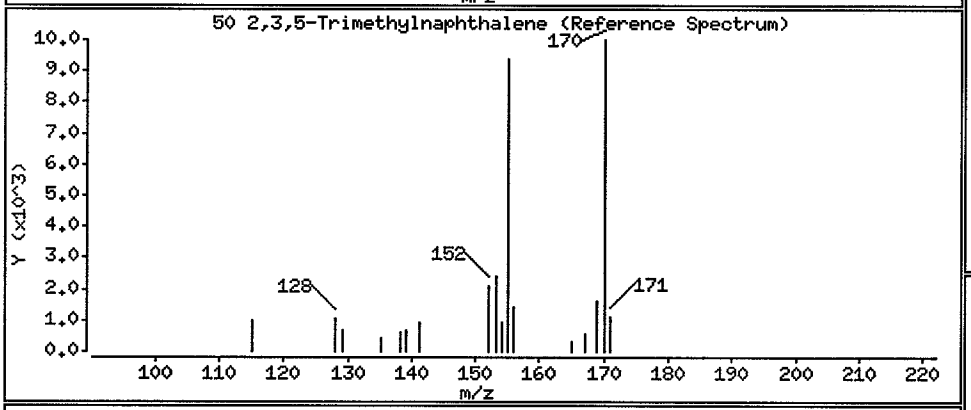
Column diameter: 0.25

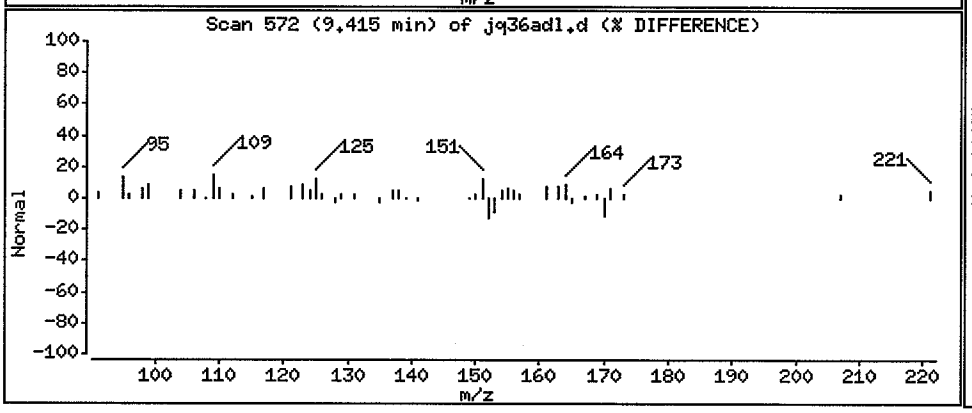
50 2,3,5-Trimethylnaphthalene

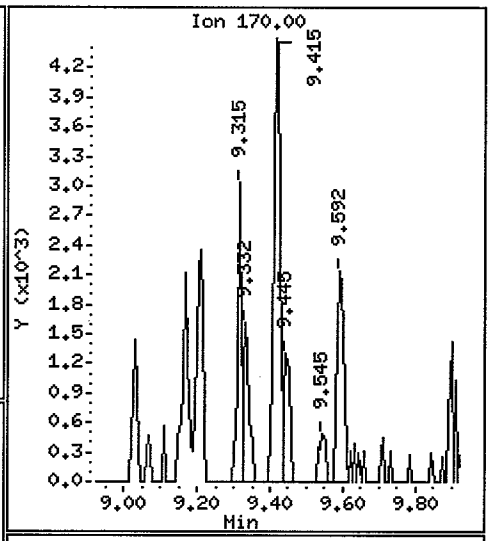
Concentration: 84.96 ug/kg

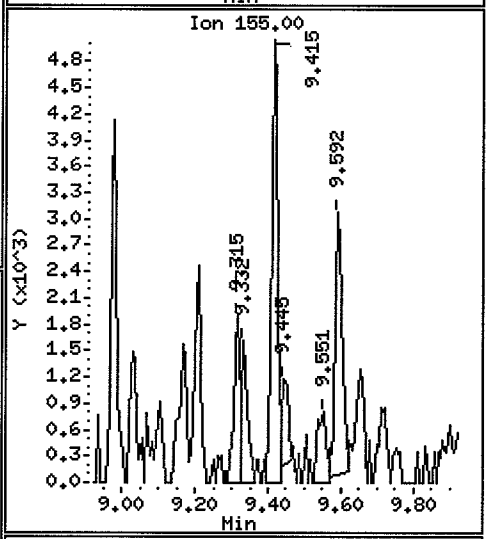


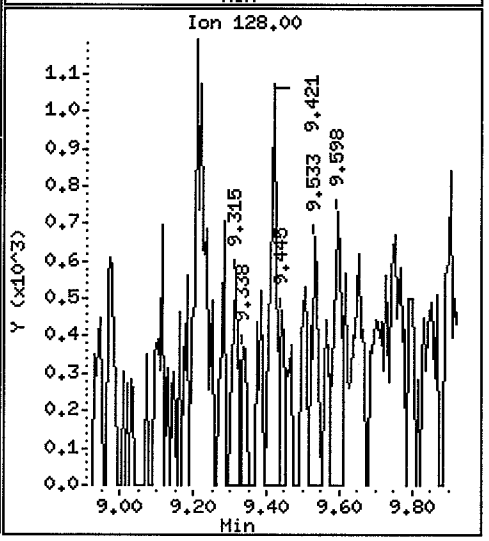












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

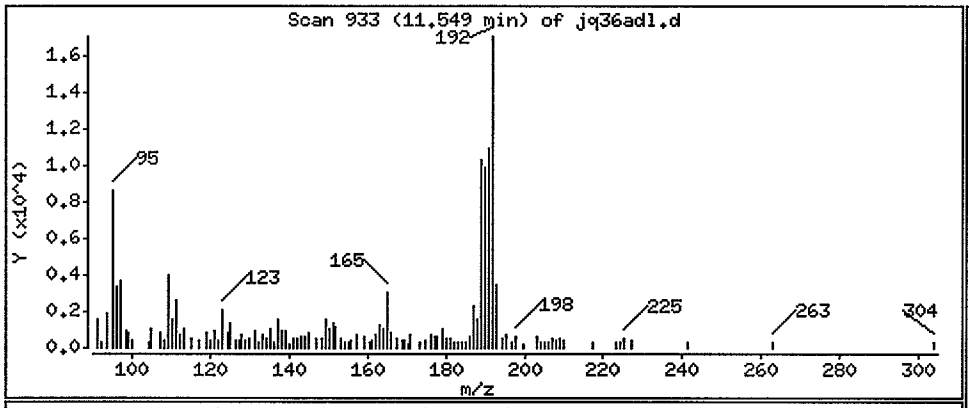
Operator: VTS

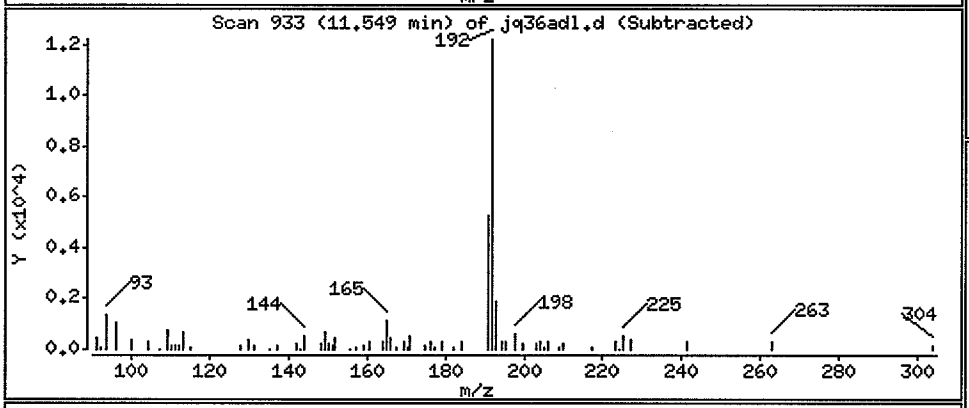
Column phase: ZB-5

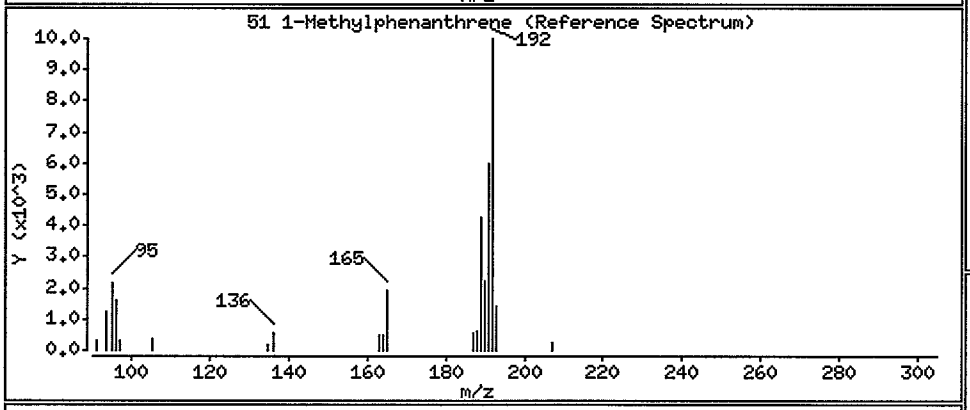
Column diameter: 0.25

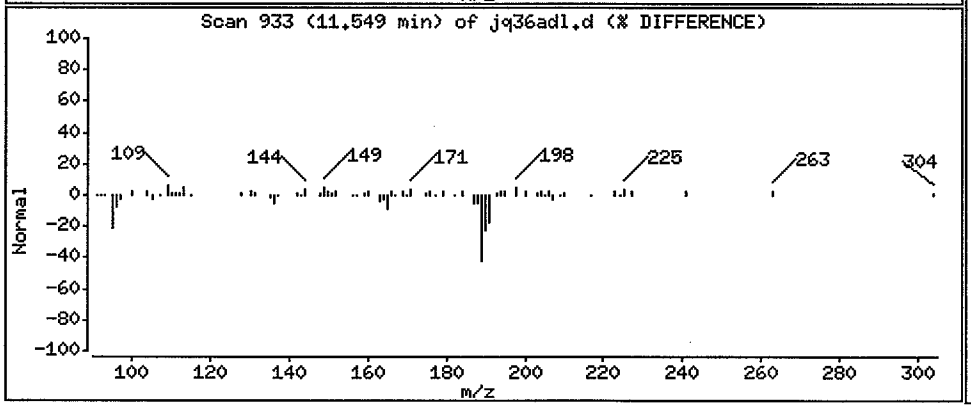
51 1-Methylphenanthrene

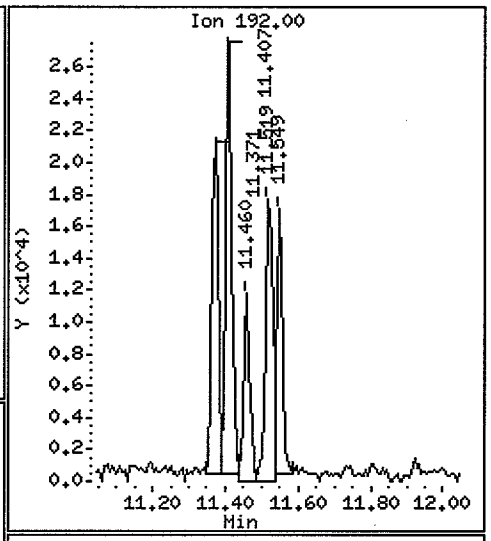
Concentration: 186.3 ug/kg

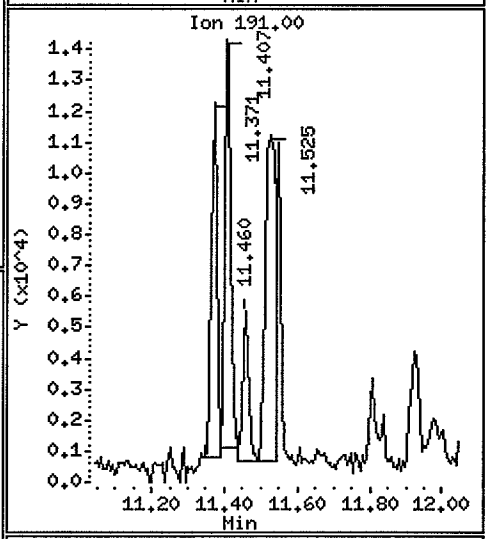


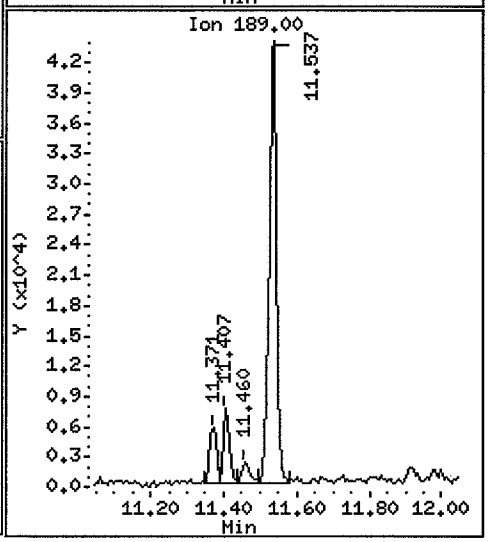












Data File: /chem3/nt1.i/20060814.b/jq36ad1.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

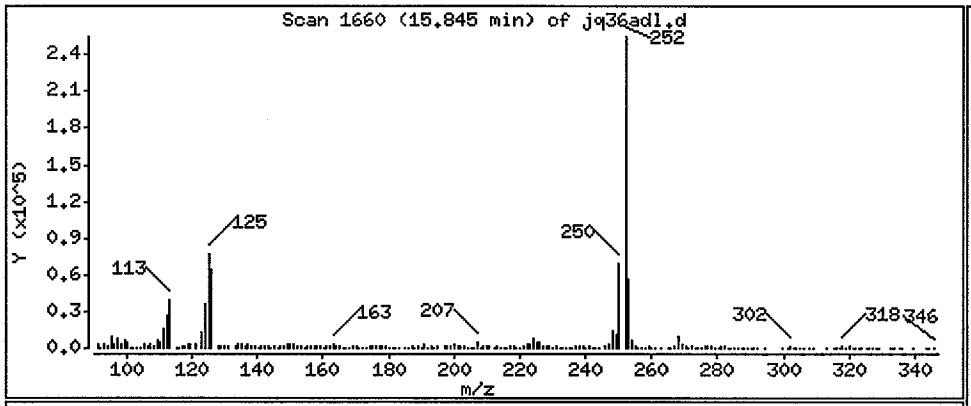
Operator: VTS

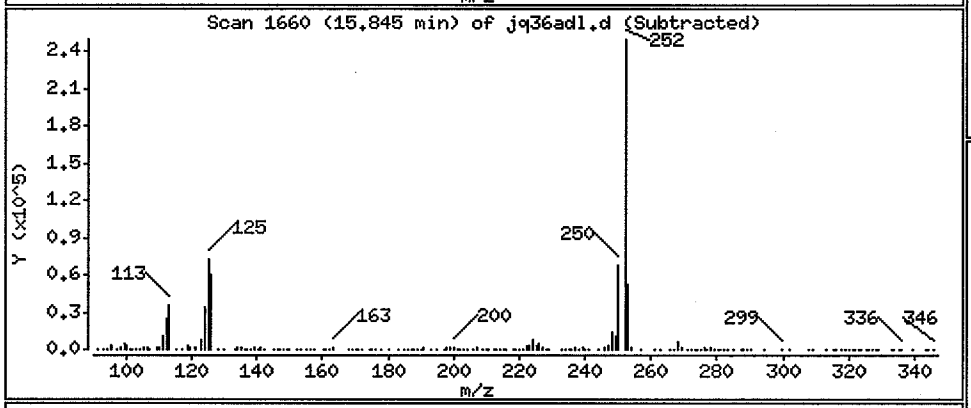
Column phase: ZB-5

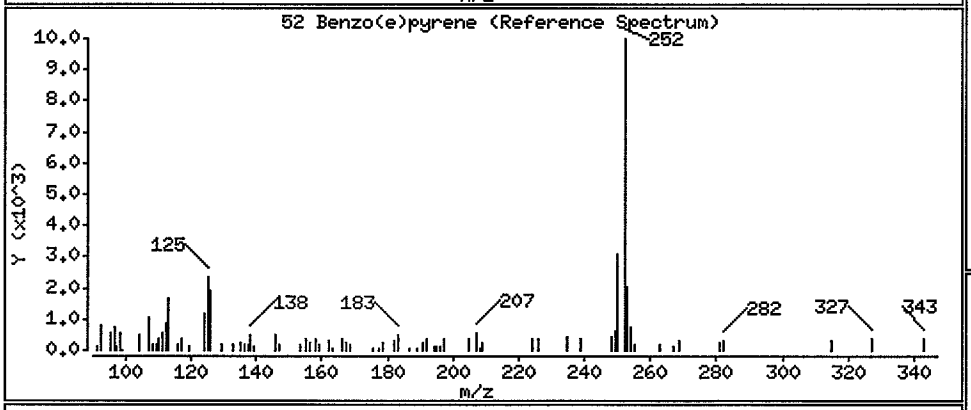
Column diameter: 0.25

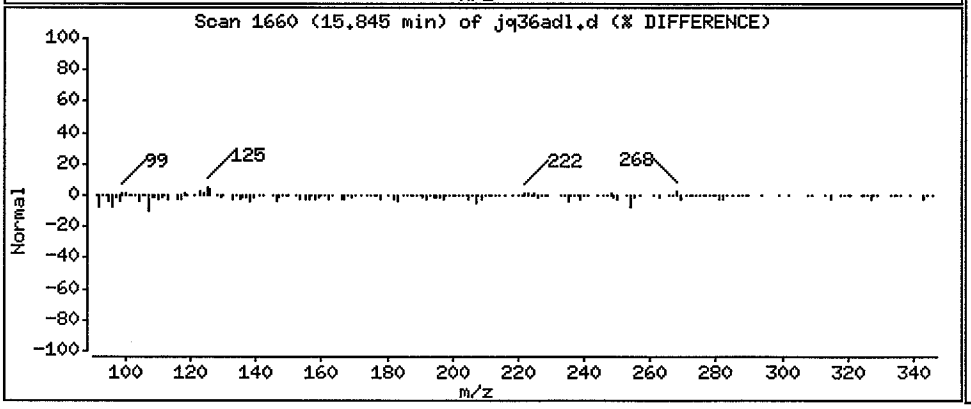
52 Benzo(e)pyrene

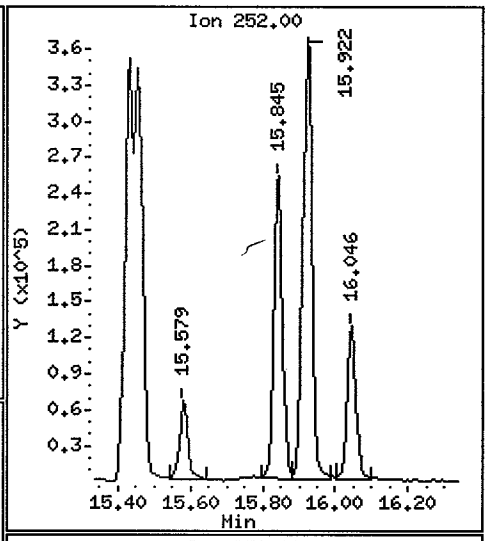
Concentration: 2508 ug/kg

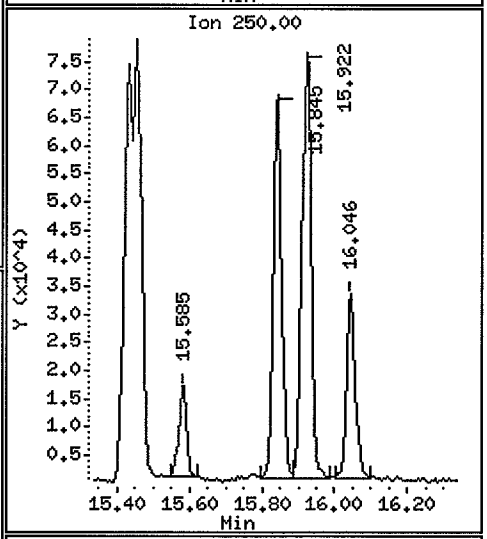


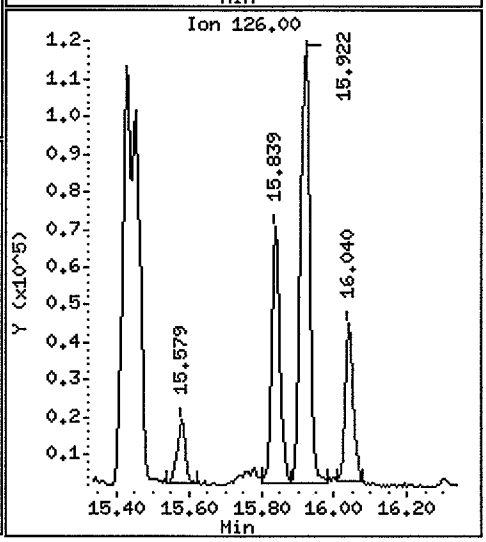












Data File: /chem3/nt1.i/20060814.b/jq36adl.d

Date : 14-AUG-2006 11:56

Client ID: T4-S3-07-B

Instrument: nt1.i

Sample Info: JQ36A,10

Volume Injected (uL): 1.0

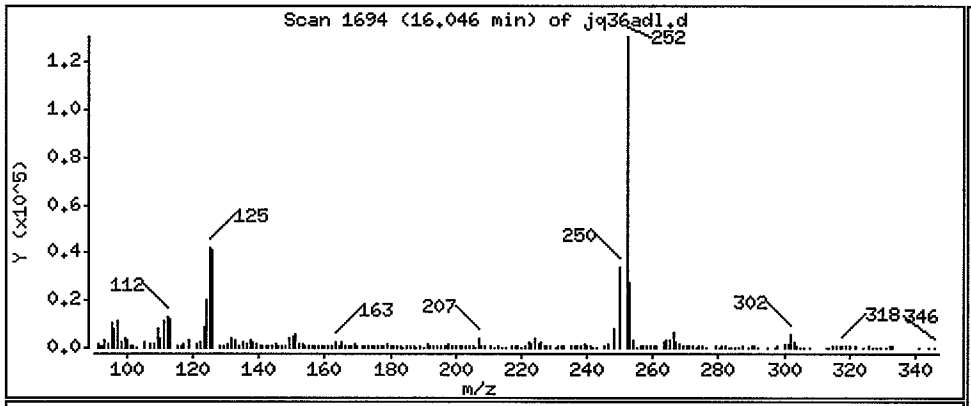
Operator: VTS

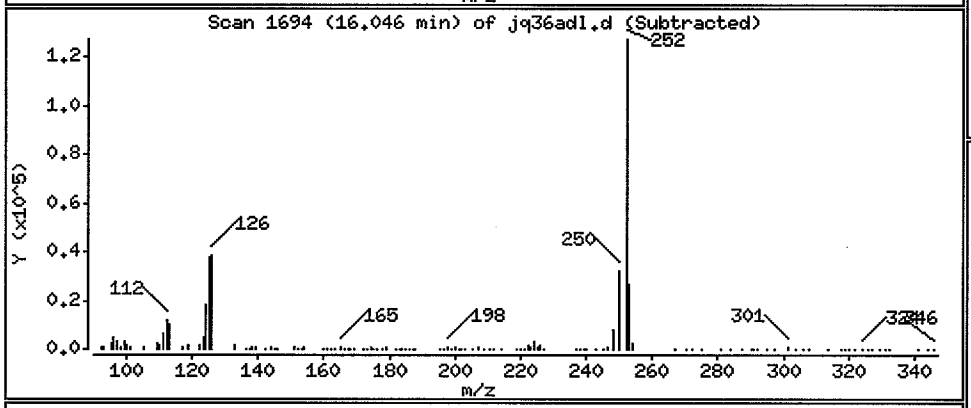
Column phase: ZB-5

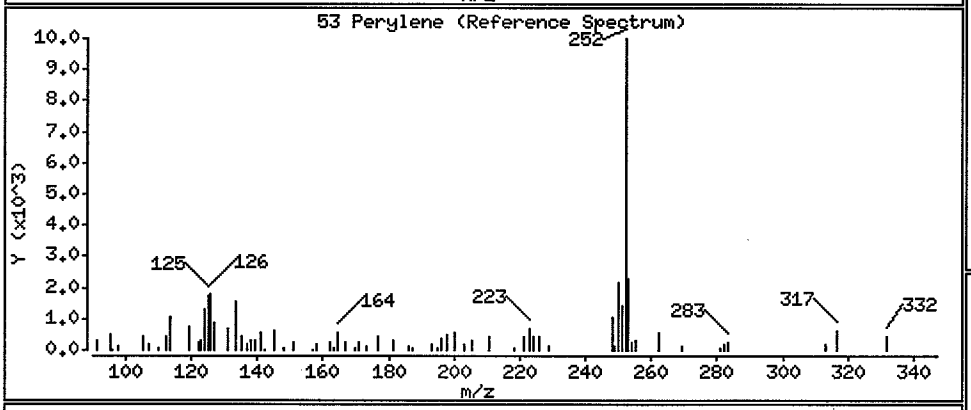
Column diameter: 0.25

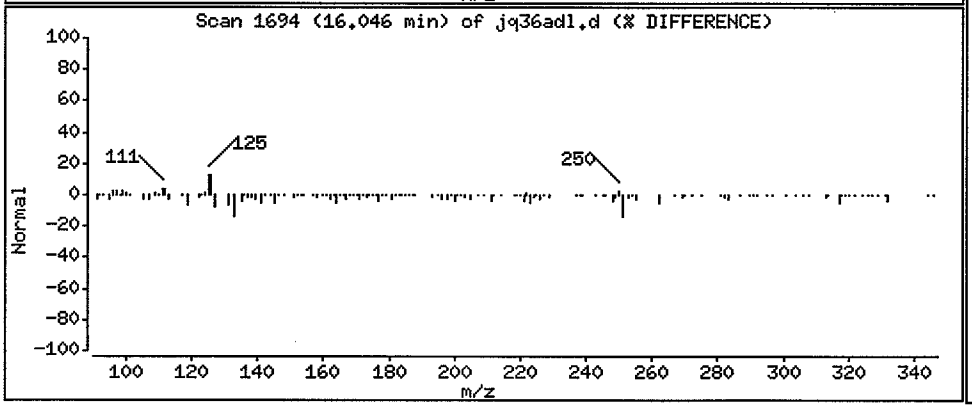
53 Perylene

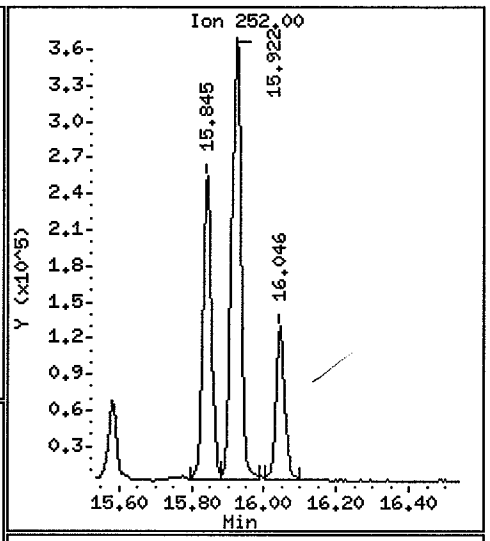
Concentration: 1348 ug/kg

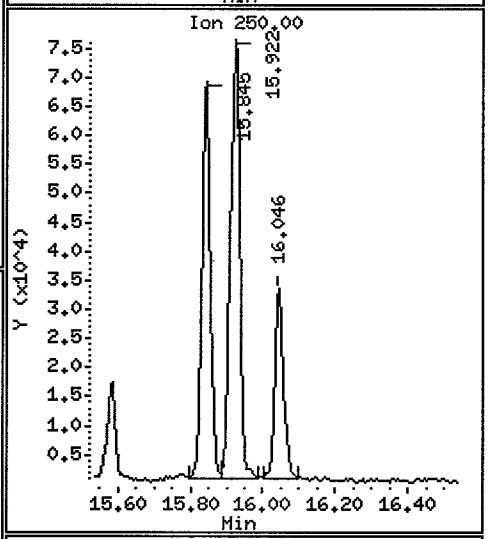


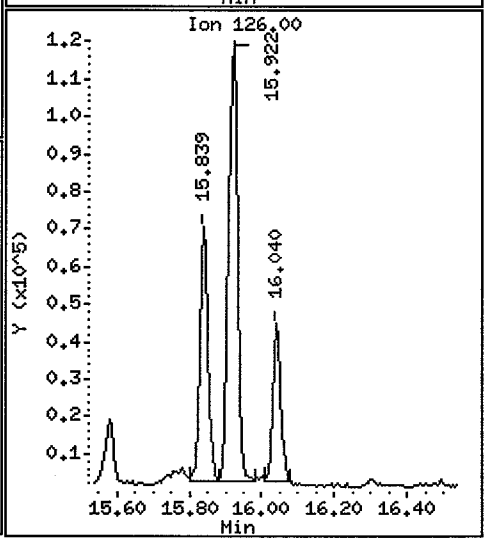












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-07-C
SAMPLE

Lab Sample ID: JQ36B
LIMS ID: 06-12973
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 10:03
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 45.2%
pH: 6.5

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**49**	**54**
91-57-6	2-Methylnaphthalene	49	< 49 U
90-12-0	1-Methylnaphthalene	49	< 49 U
208-96-8	Acenaphthylene	49	< 49 U
83-32-9	**Acenaphthene**	**49**	**200**
86-73-7	**Fluorene**	**49**	**110**
85-01-8	**Phenanthrene**	**49**	**860**
120-12-7	**Anthracene**	**49**	**190**
206-44-0	**Fluoranthene**	**49**	**1,800**
129-00-0	**Pyrene**	**49**	**1,700**
56-55-3	**Benzo(a)anthracene**	**49**	**1,200**
218-01-9	**Chrysene**	**49**	**1,400**
205-99-2	**Benzo(b)fluoranthene**	**49**	**1,400**
207-08-9	**Benzo(k)fluoranthene**	**49**	**1,300**
50-32-8	**Benzo(a)pyrene**	**49**	**1,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**49**	**990**
53-70-3	**Dibenz(a,h)anthracene**	**49**	**370**
191-24-2	**Benzo(g,h,i)perylene**	**49**	**1,200**
198-55-0	**Perylene**	**49**	**640**
92-52-4	Biphenyl	49	< 49 U
581-42-0	2,6-Dimethylnaphthalene	49	< 49 U
832-69-9	**1-Methylphenanthrene**	**49**	**59**
192-97-2	**Benzo(e)pyrene**	**49**	**940**
2245-38-7	2,3,5-Trimethylnaphthalene	49	< 49 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	54.7%
d14-Dibenzo(a,h)anthracen	68.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq36b.d
Lab Smp Id: JQ36B Client Smp ID: T4-S3-07-C
Inj Date : 09-AUG-2006 10:03
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36B,10
Misc Info : 06-12973
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 09:48 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 5
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	18.60000	Weight of sample extracted (g)
M	45.20000	% 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	6.871	6.877	(1.000)	305810	2.00000	
	2 Naphthalene	128	6.895	6.901	(1.003)	17280	0.11328	55.57
$	3 2-Methylnaphthalene-d10	152	7.628	7.634	(1.110)	12954	0.16446	80.67
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.934	8.934	(1.000)	156239	2.00000	
	9 Acenaphthene	153	8.975	8.975	(1.005)	30694	0.40010	196.3
	10 Dibenzofuran	168	9.165	9.164	(1.026)	9151	0.08098	39.72 J
	11 Fluorene	166	9.584	9.590	(1.073)	19378	0.22028	108.1
*	15 Phenanthrene-d10	188	10.748	10.748	(1.000)	236480	2.00000	
	16 Phenanthrene	178	10.778	10.778	(1.003)	213590	1.75966	863.2
	17 Anthracene	178	10.831	10.837	(1.008)	46526	0.38356	188.2
	19 Fluoranthene	202	12.267	12.273	(1.141)	465935	3.76343	1846

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
20	Pyrene	202	12.557	12.557	(0.893)	481970	3.48579	1710
22	Benzo(a)anthracene	228	14.040	14.040	(0.998)	312500	2.41003	1182
* 23	Chrysene-d12	240	14.064	14.058	(1.000)	215326	2.00000	
24	Chrysene	228	14.094	14.093	(1.002)	338785	2.83269	1390
28	Benzo(b)fluoranthene	252	15.435	15.429	(0.964)	417811	2.93202	1438
29	Benzo(k)fluoranthene	252	15.459	15.459	(0.966)	403262	2.65447	1302
30	Benzo(a)pyrene	252	15.926	15.926	(0.995)	433218	3.12000	1530
* 31	Perylene-d12	264	16.009	16.008	(1.000)	252490	2.00000	
33	Indeno(1,2,3-cd)pyrene	276	17.965	17.959	(1.122)	322423	2.01919	990.5
$ 32	Dibenz(a,h)anthrancene-d14	292	17.882	17.888	(1.117)	19818	0.20510	100.6
34	Dibenz(a,h)anthracene	278	17.959	17.959	(1.122)	98624	0.75605	370.9
35	Benzo(g,h,i)perylene	276	18.550	18.544	(1.159)	328116	2.47197	1213
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	11.552	11.552	(0.821)	10198	0.11570	56.76
52	Benzo(e)pyrene	252	15.849	15.843	(0.990)	295704	1.92393	943.8
53	Perylene	252	16.050	16.050	(1.003)	187359	1.29830	636.9

VTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36b.d
Lab Smp Id: JQ36B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12973

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-S3-07-C
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	305810	27.38
8 Acenaphthene-d10	117778	58889	235556	156239	32.66
15 Phenanthrene-d10	165702	82851	331404	236480	42.71
23 Chrysene-d12	120342	60171	240684	215326	78.93
31 Perylene-d12	134879	67440	269758	252490	87.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.87	-0.08
8 Acenaphthene-d10	8.93	8.43	9.43	8.93	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.04
31 Perylene-d12	16.01	15.51	16.51	16.01	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

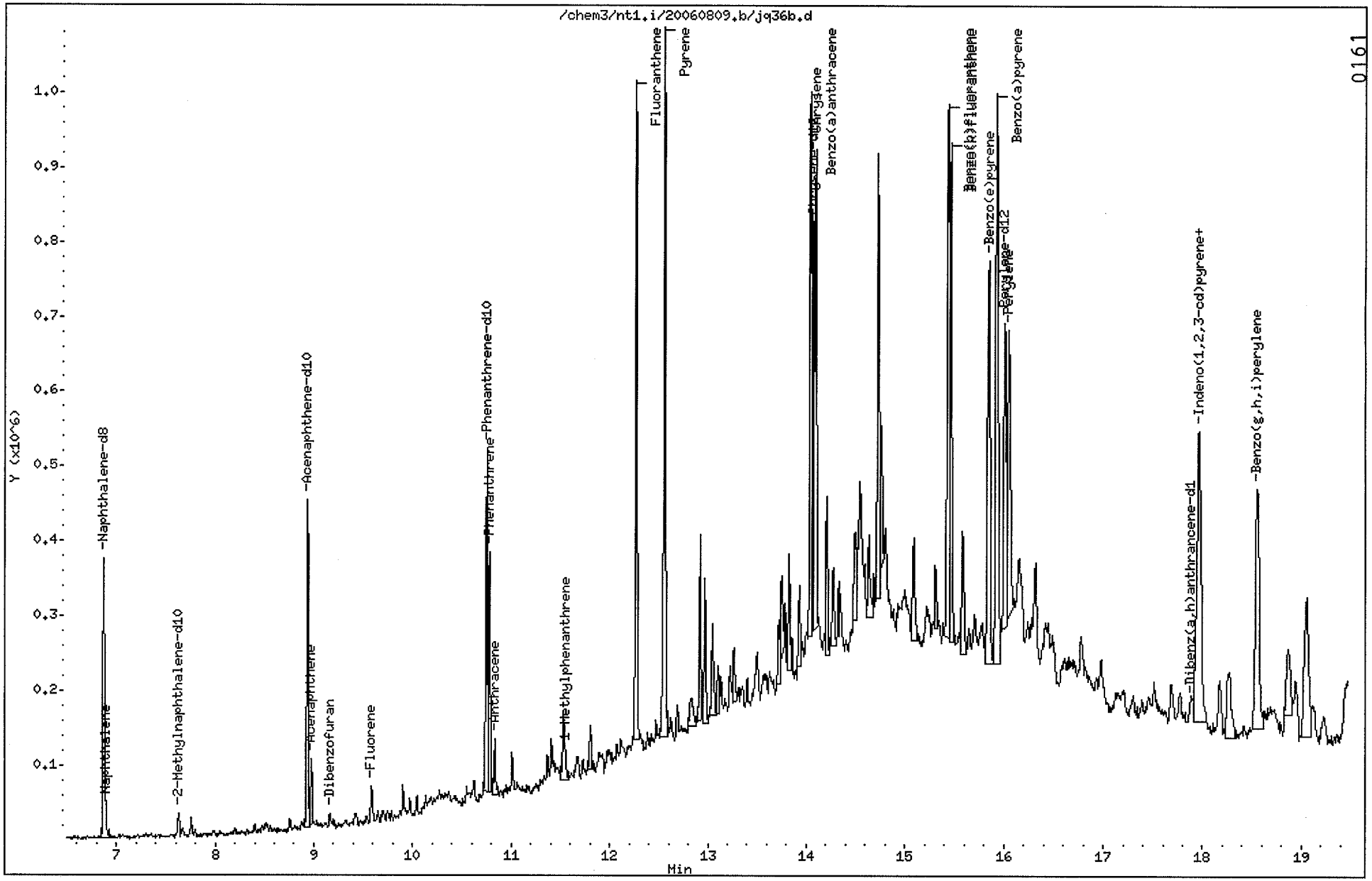
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36B
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12973

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-07-C
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.2	80.67	54.82	32-97
$ 32 Dibenz(a,h)anthran	147.2	100.6	68.37	21-105

Data File: /chem3/nt1.i/20060809.b/jq36b.d
Date : 09-AUG-2006 10:03
Client ID: T4-S3-07-C
Sample Info: JQ36B,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

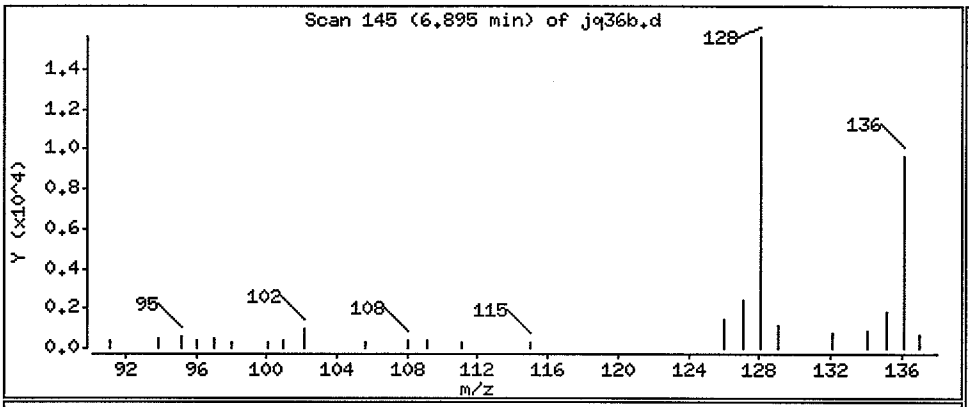
Operator: VTS

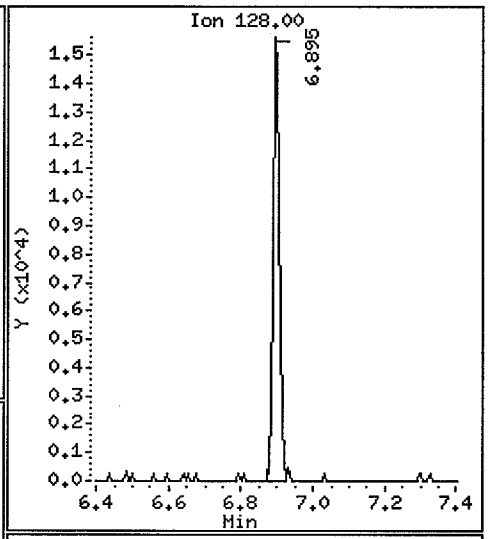
Column phase: ZB-5

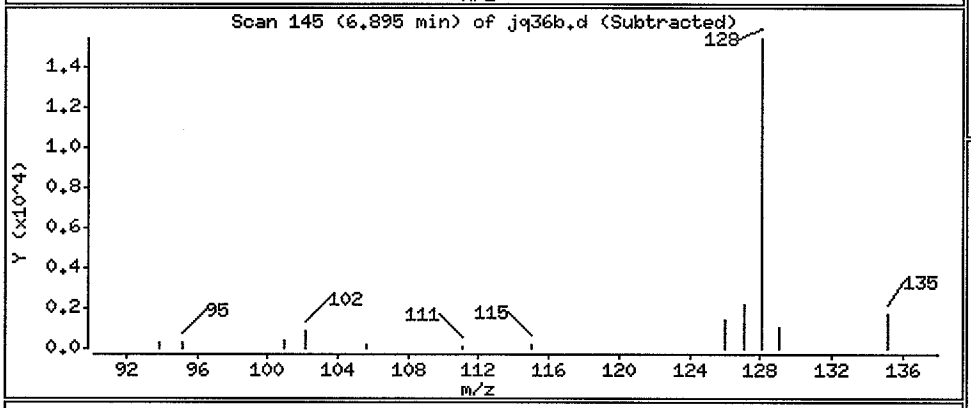
Column diameter: 0.25

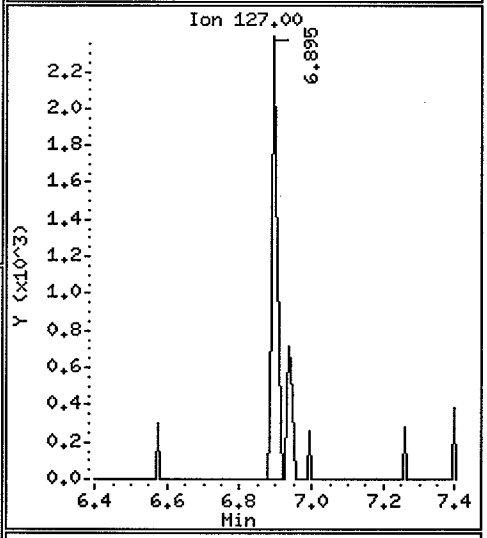
2 Naphthalene

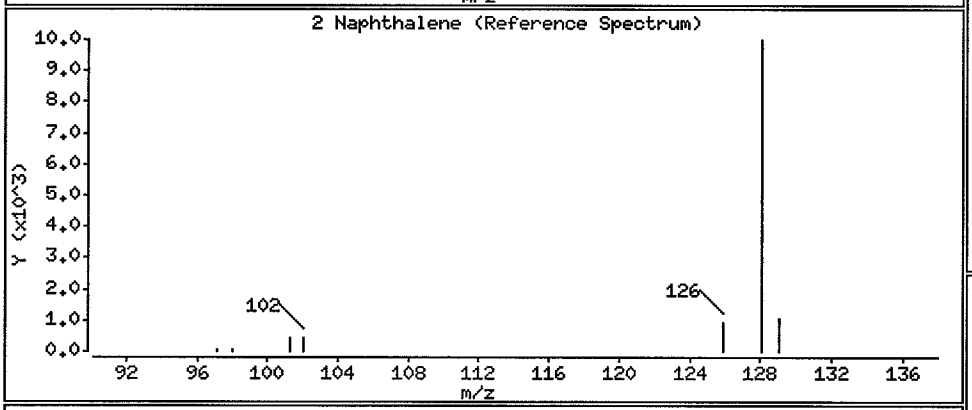
Concentration: 55.57 ug/kg

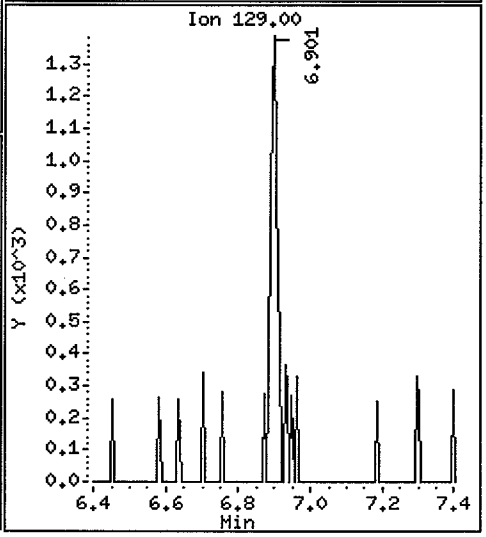


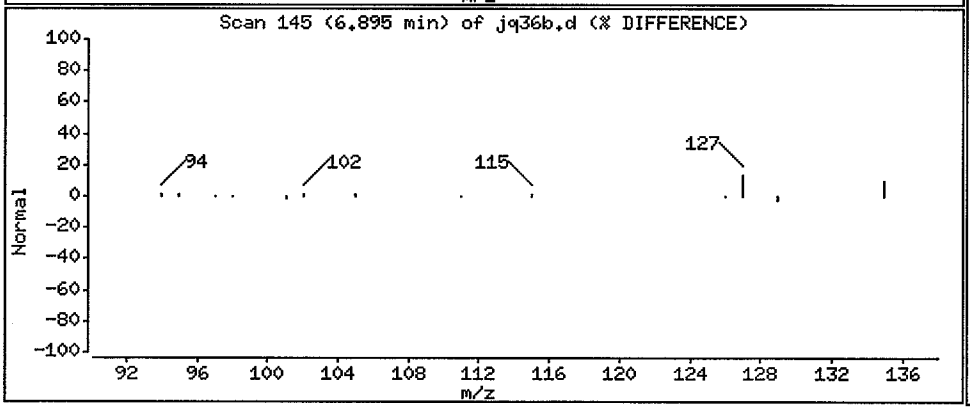












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

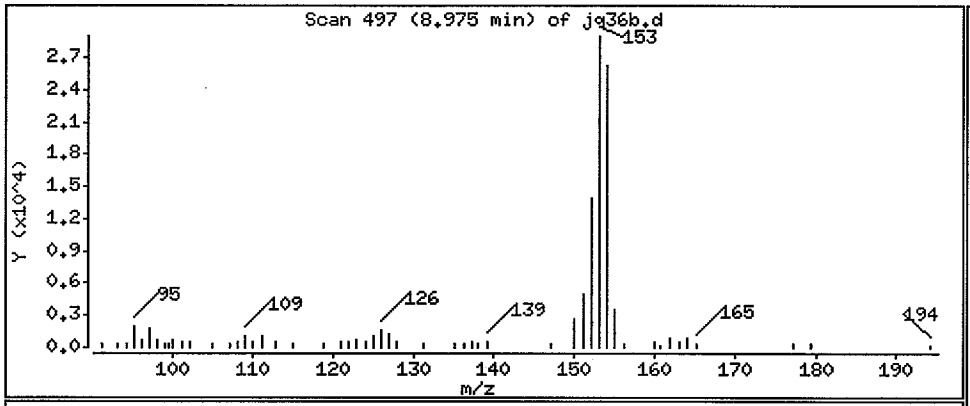
Operator: VTS

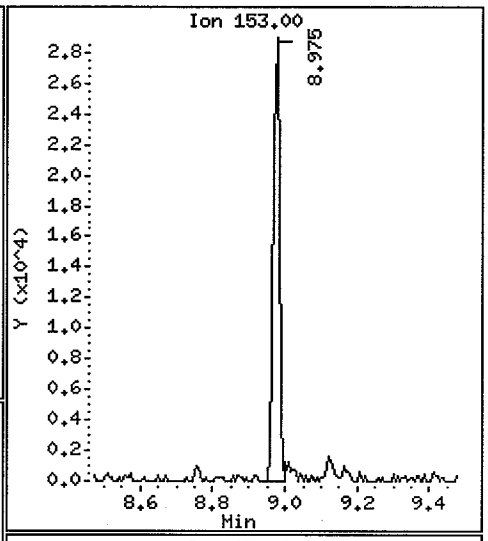
Column phase: ZB-5

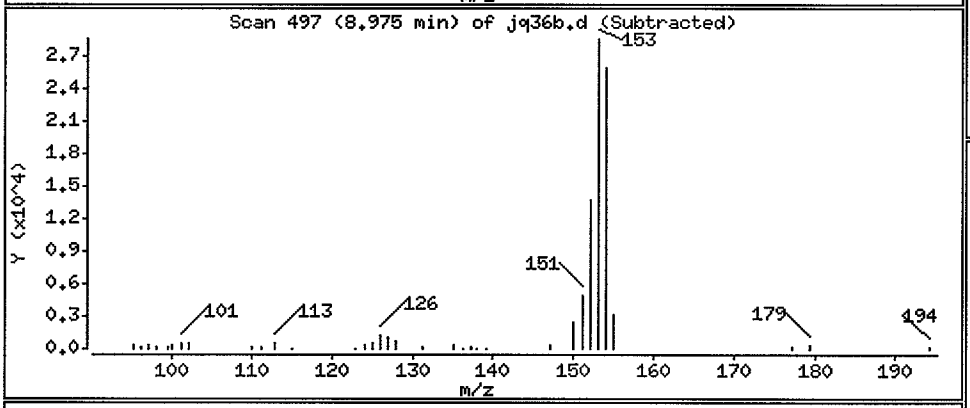
Column diameter: 0.25

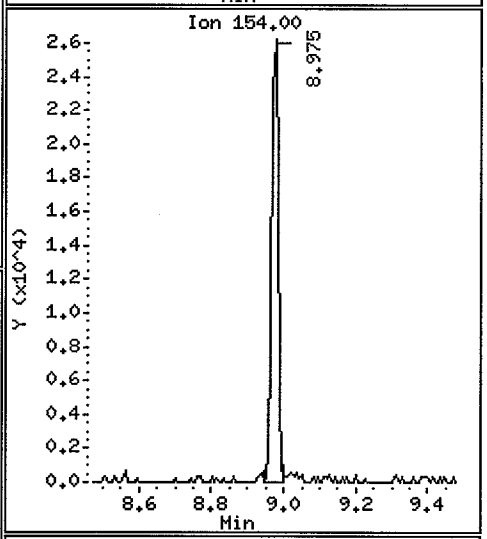
9 Acenaphthene

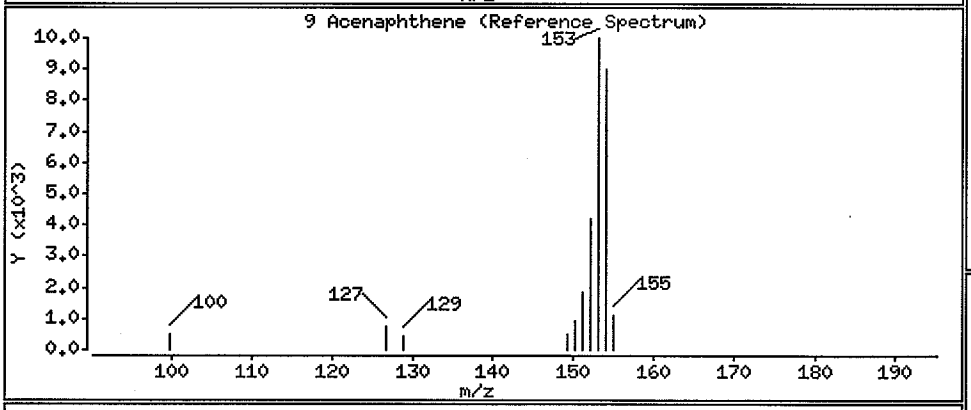
Concentration: 196.3 ug/kg

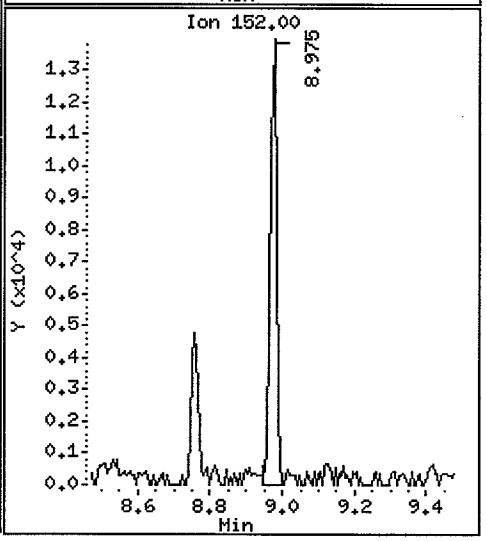


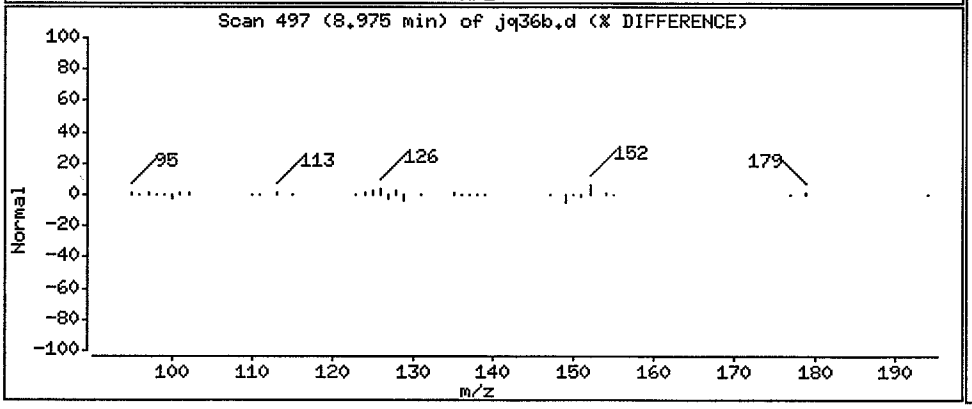












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

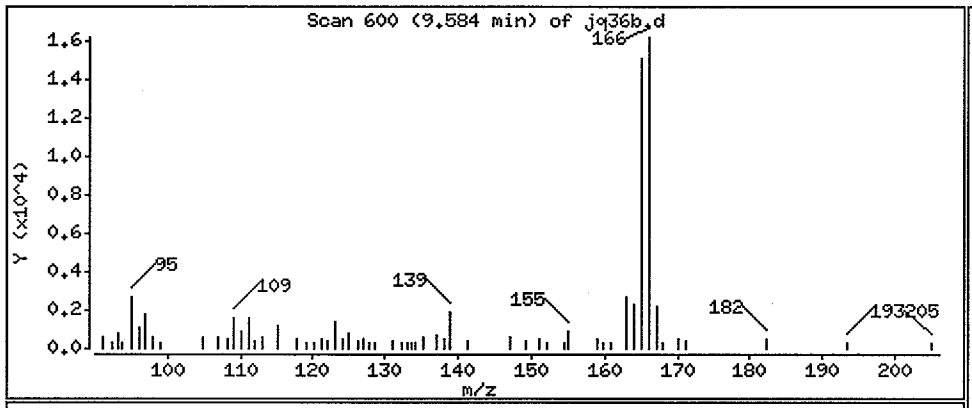
Operator: VTS

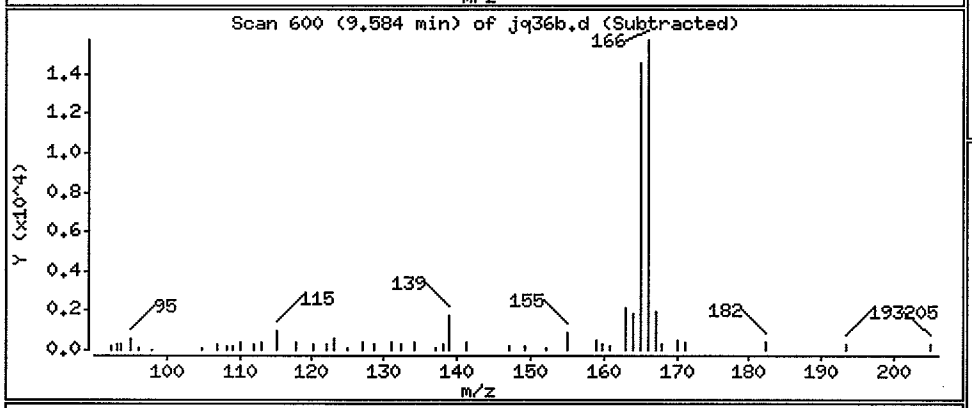
Column phase: ZB-5

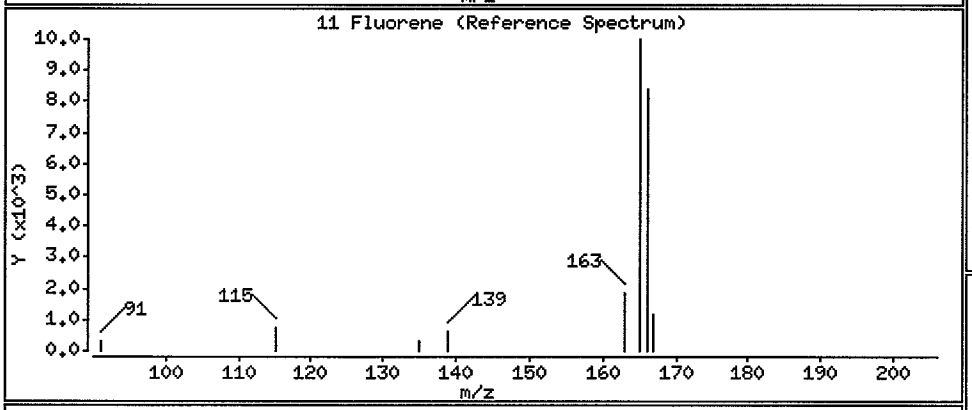
Column diameter: 0.25

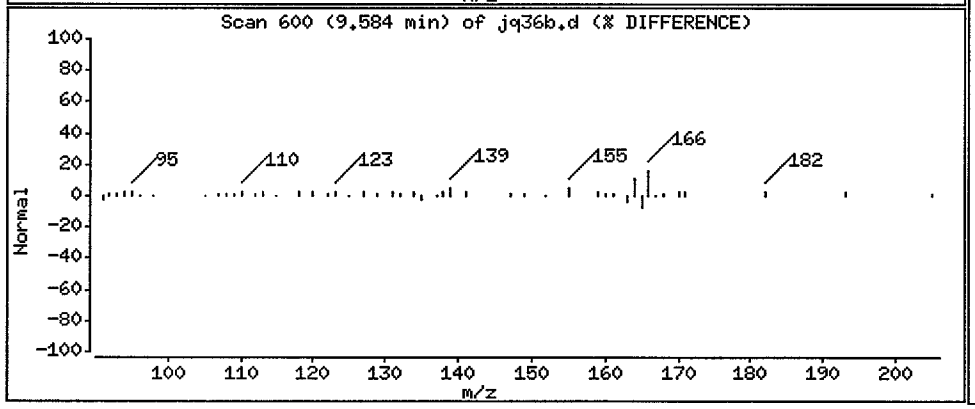
11 Fluorene

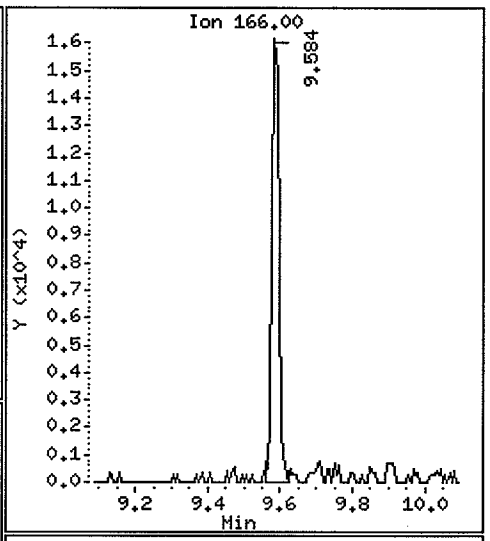
Concentration: 108.1 ug/kg

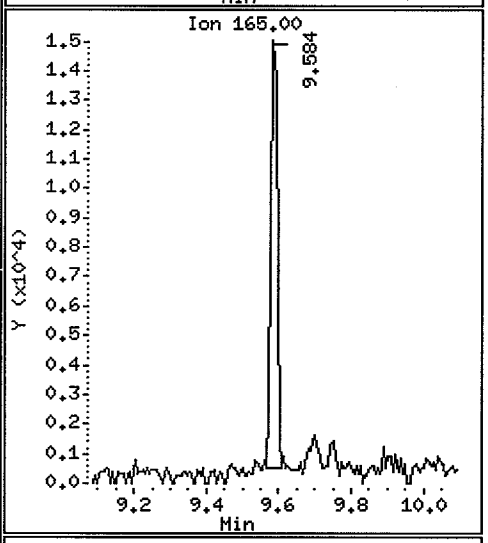


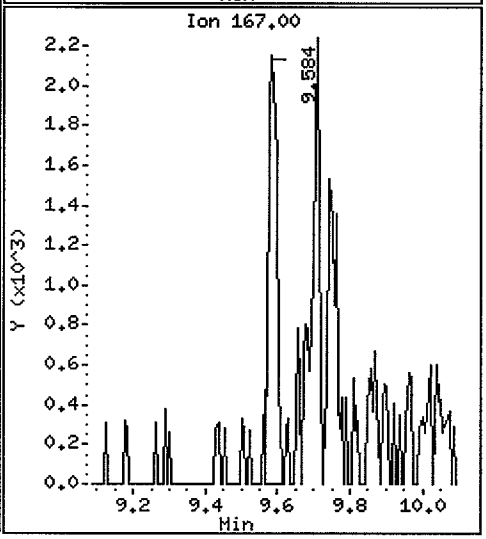












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

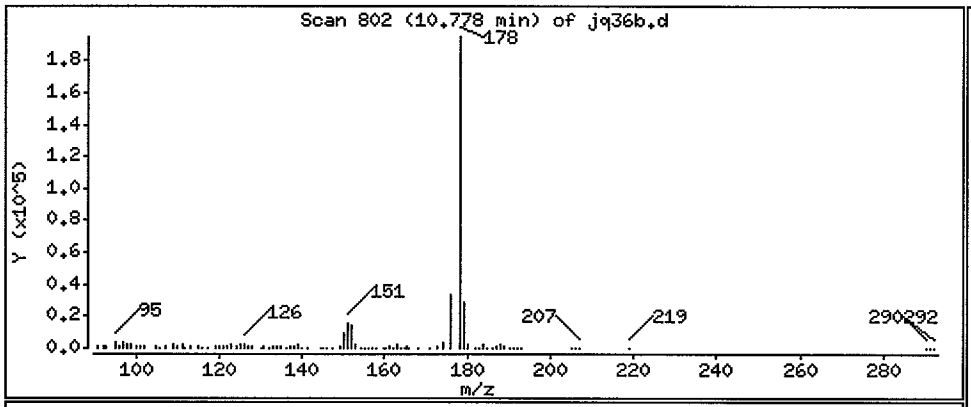
Operator: VTS

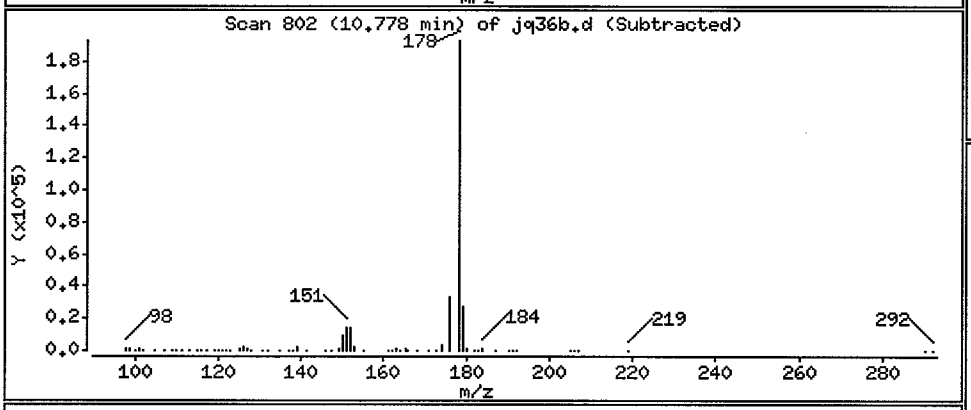
Column phase: ZB-5

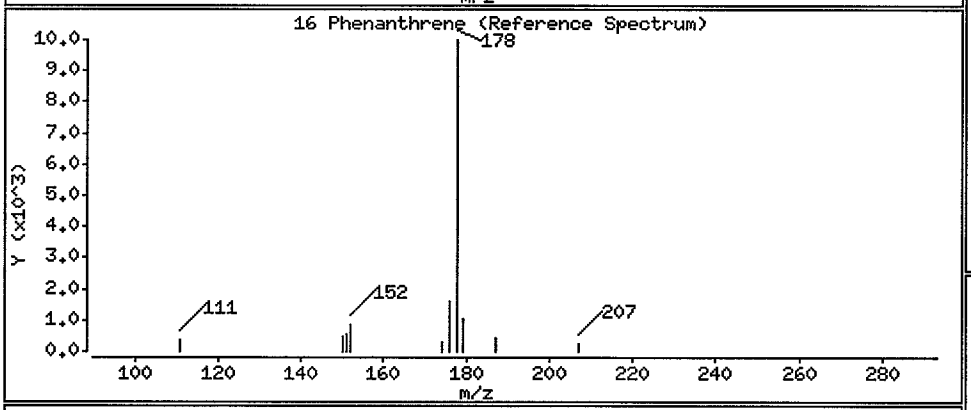
Column diameter: 0.25

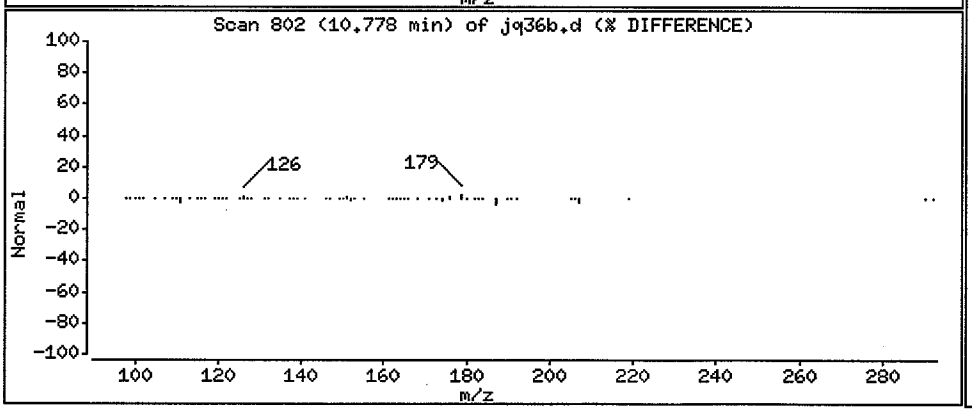
16 Phenanthrene

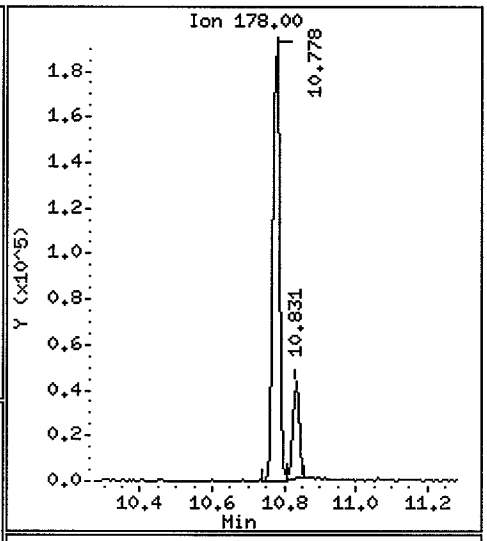
Concentration: 863.2 ug/kg

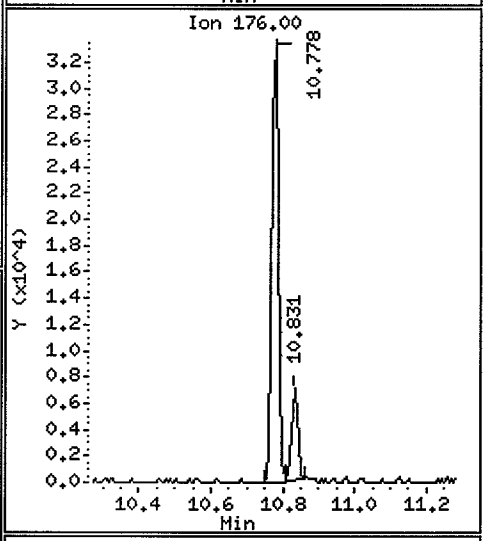


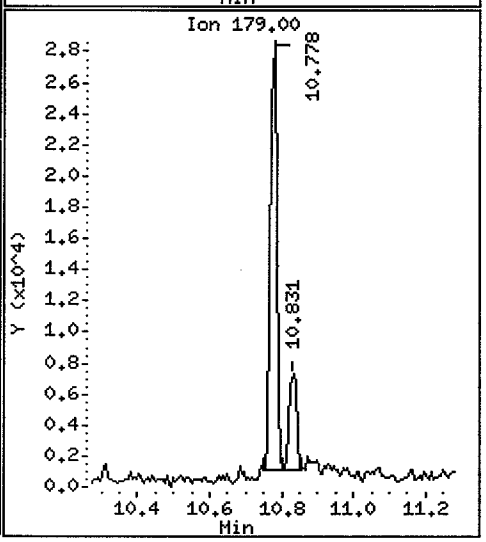












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

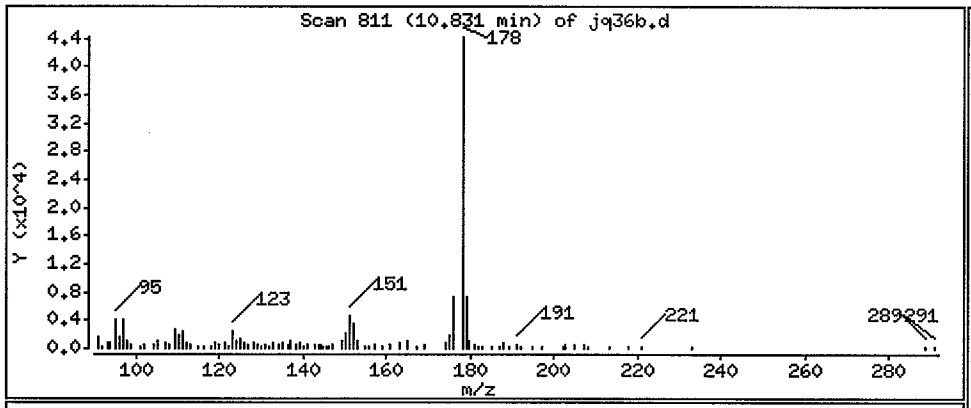
Operator: VTS

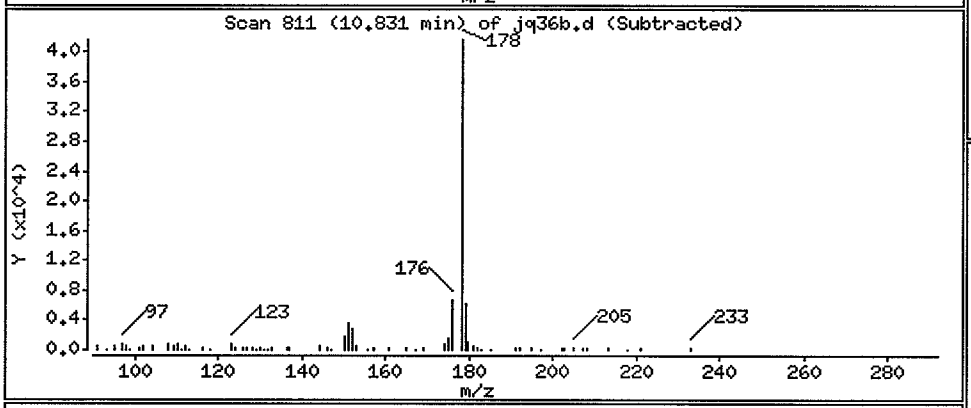
Column phase: ZB-5

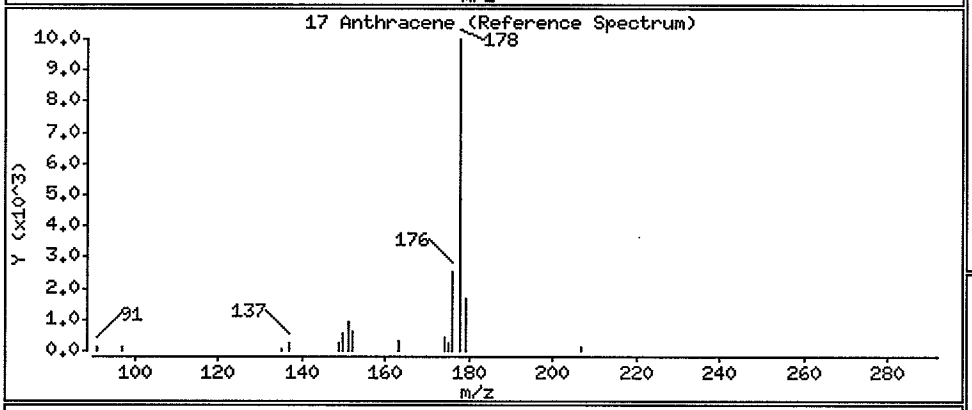
Column diameter: 0.25

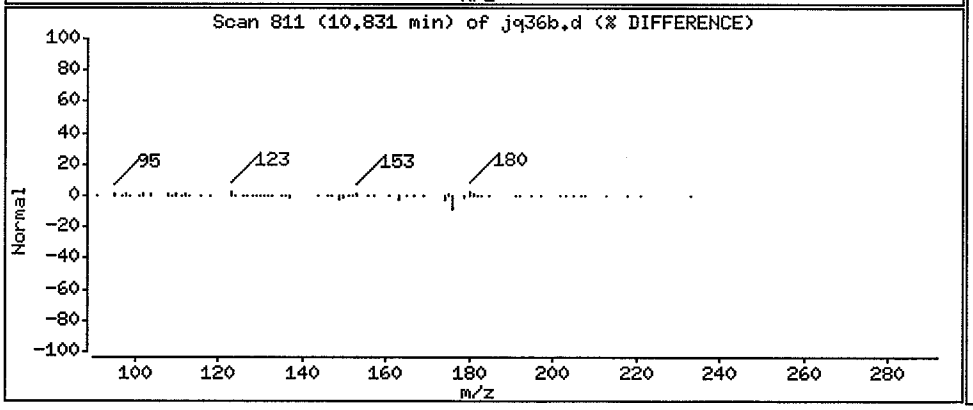
17 Anthracene

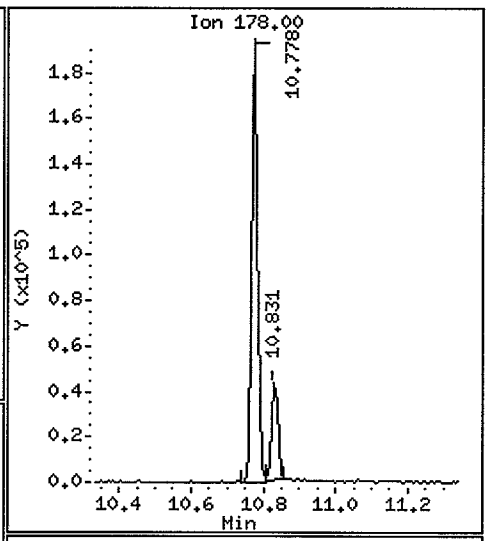
Concentration: 188.2 ug/kg

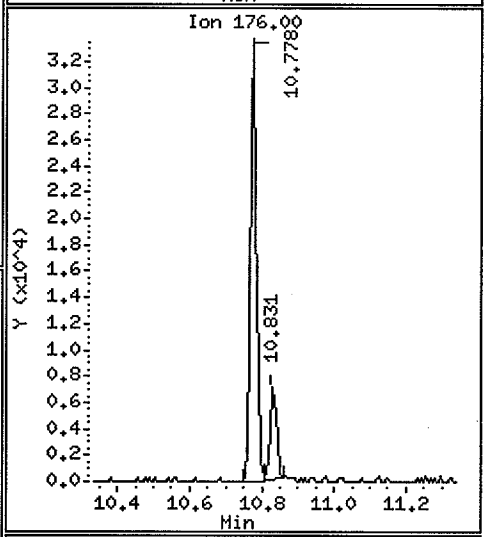


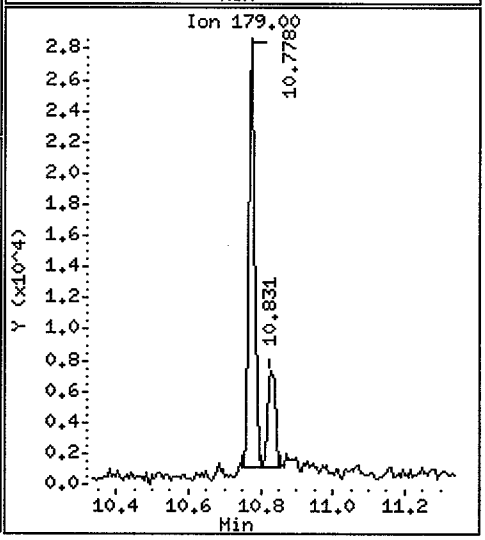












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

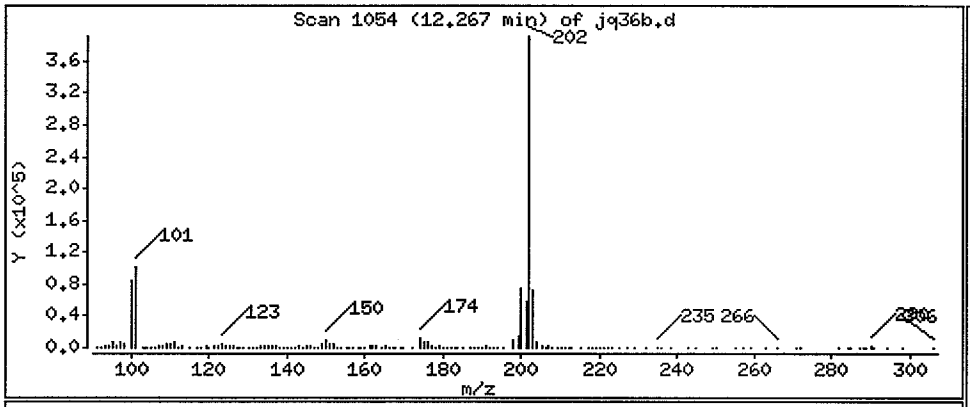
Operator: VTS

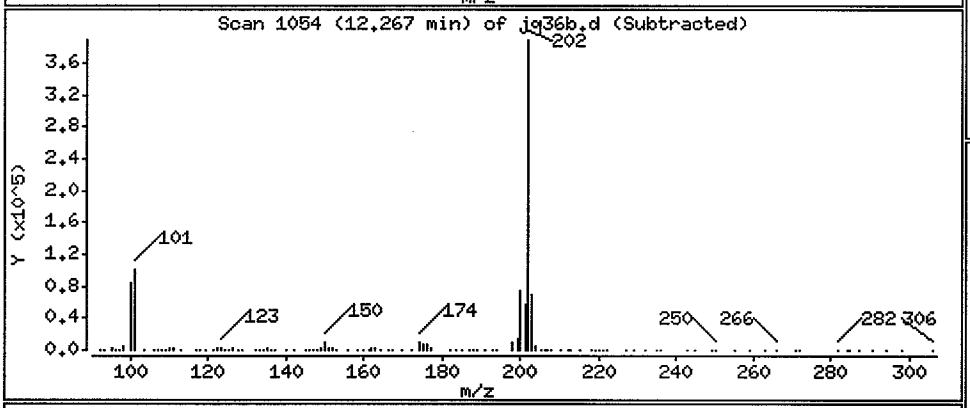
Column phase: ZB-5

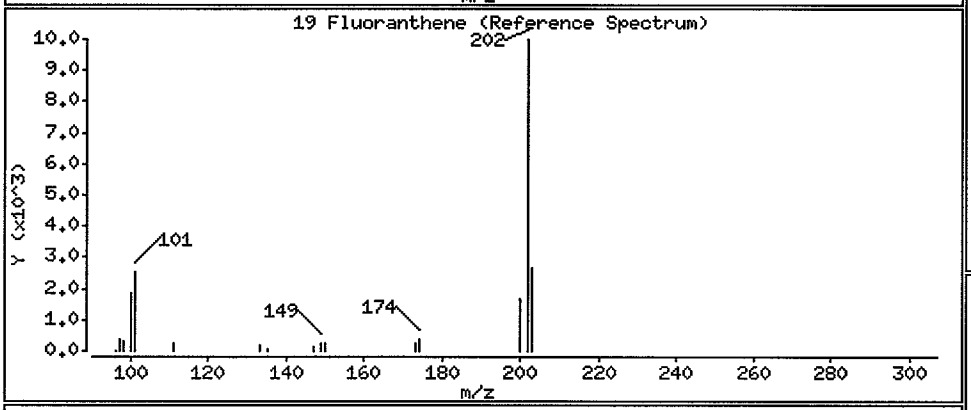
Column diameter: 0.25

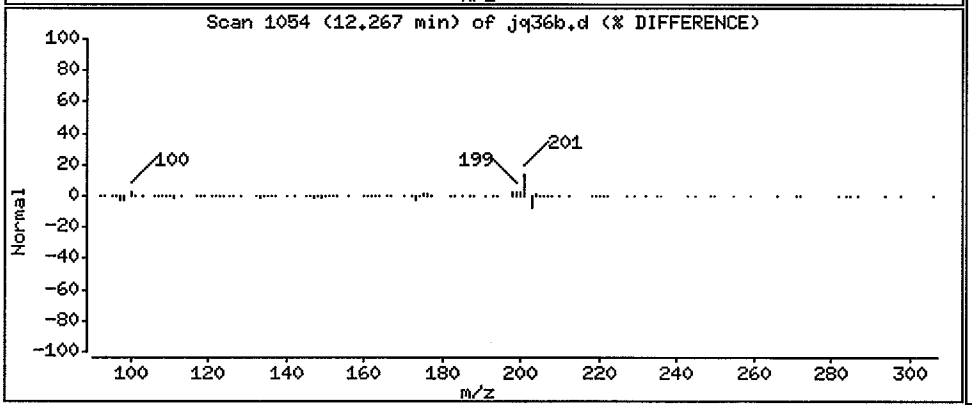
19 Fluoranthene

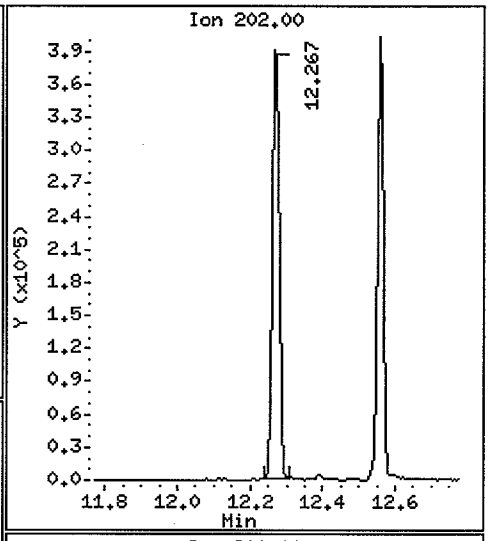
Concentration: 1846 ug/kg

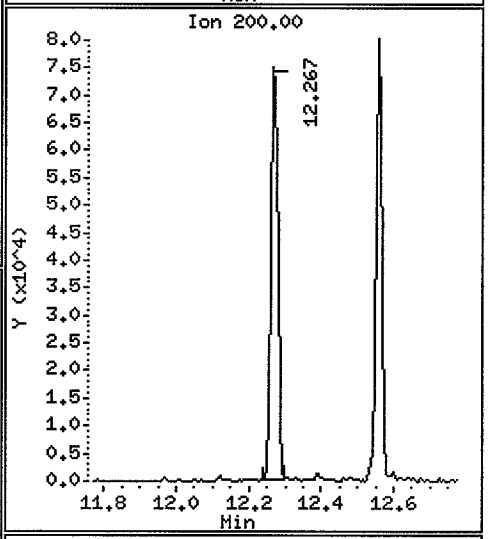


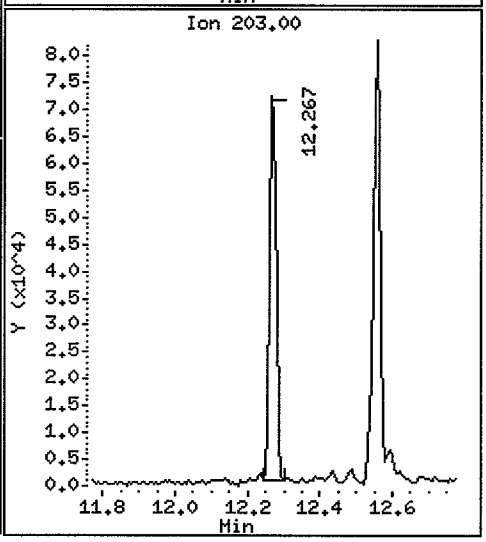












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

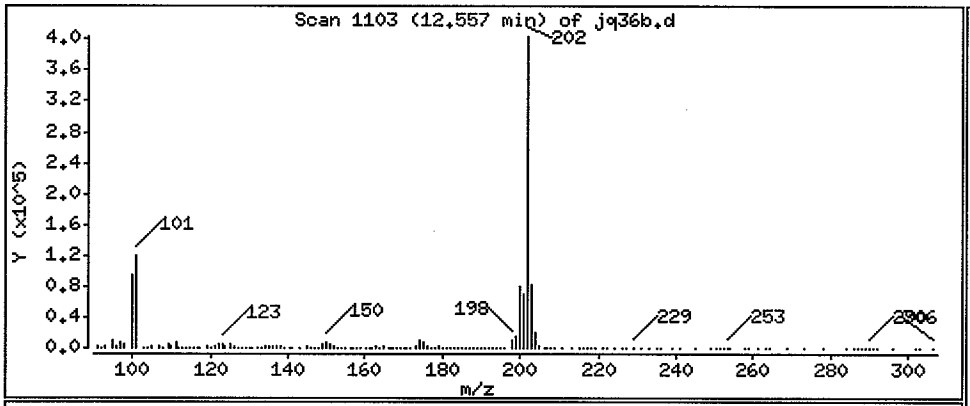
Operator: VTS

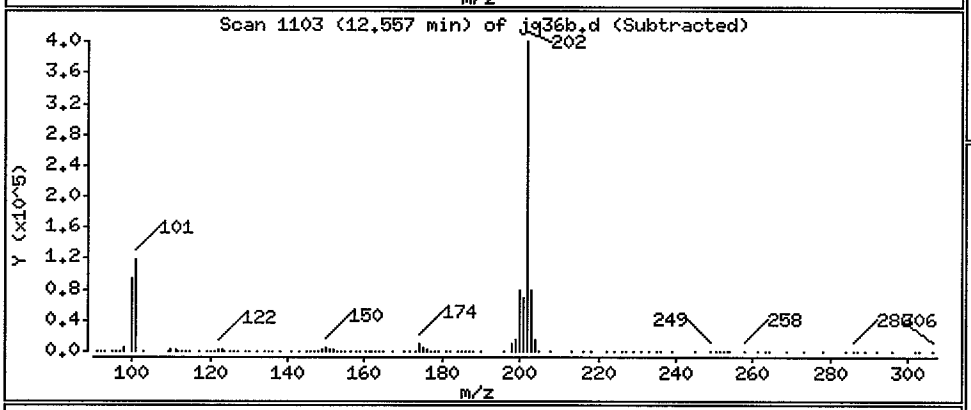
Column phase: ZB-5

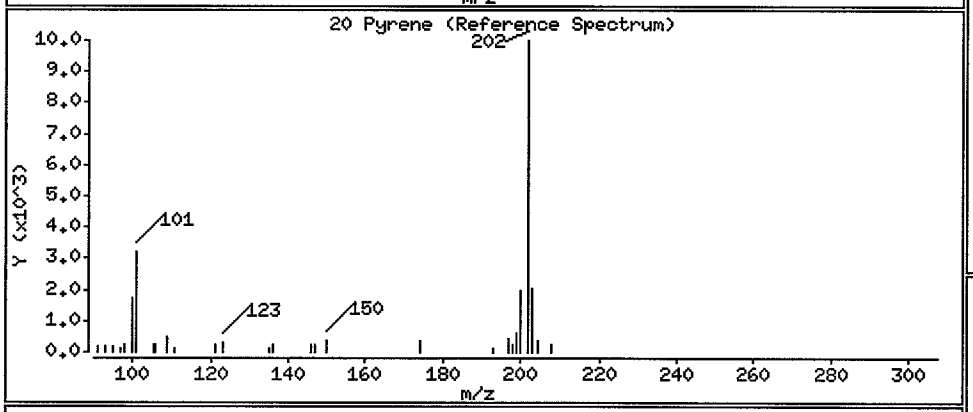
Column diameter: 0.25

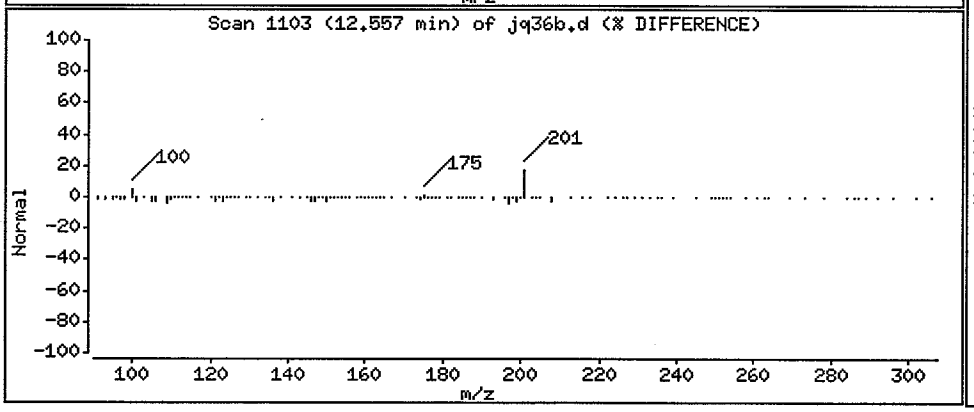
20 Pyrene

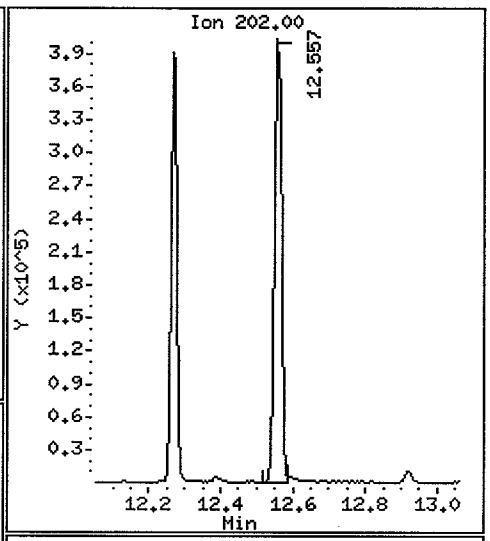
Concentration: 1710 ug/kg

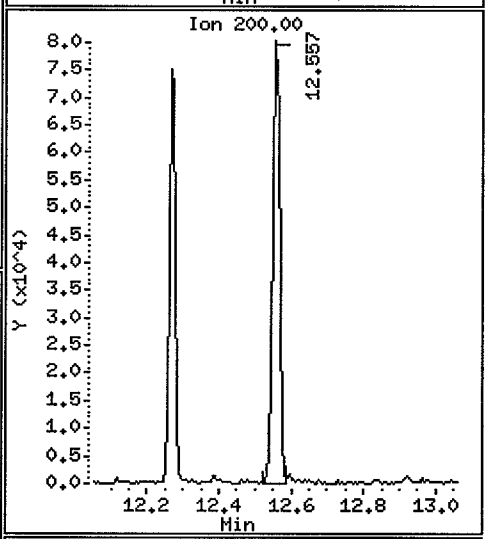


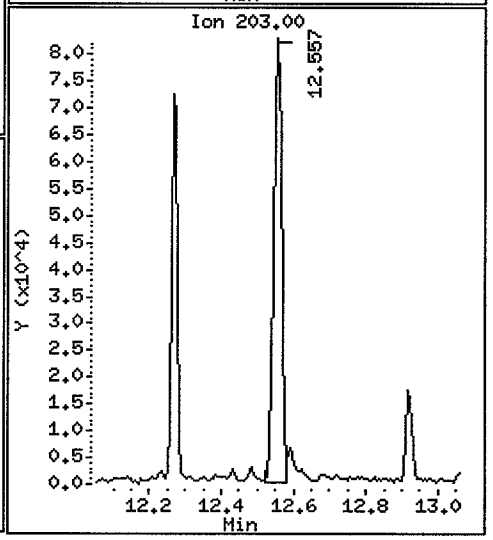












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

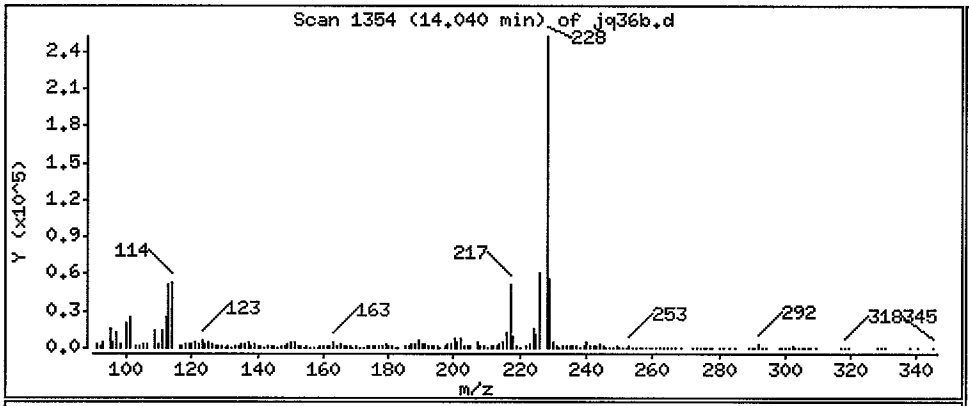
Operator: VTS

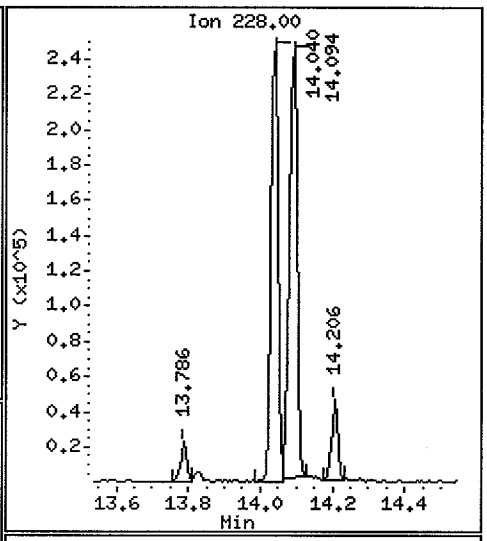
Column phase: ZB-5

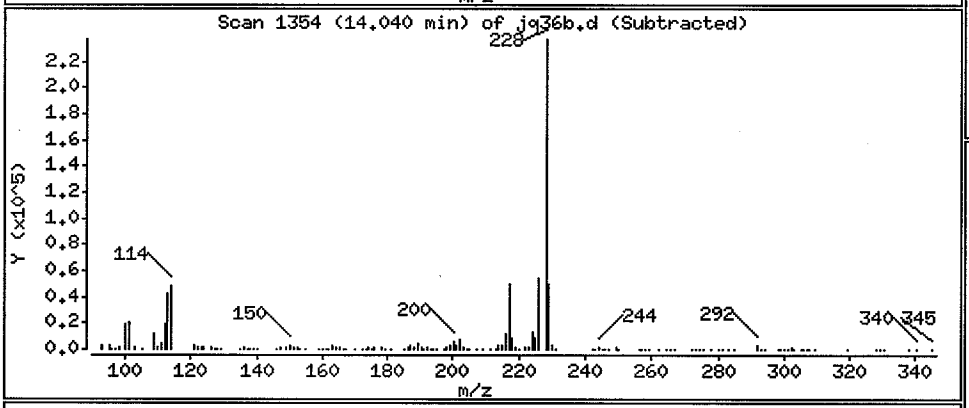
Column diameter: 0.25

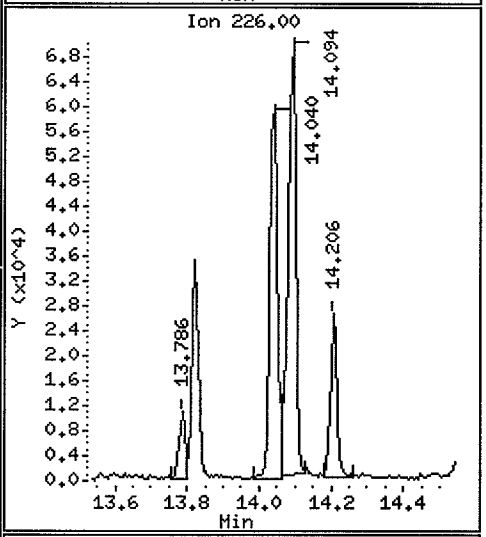
22 Benzo(a)anthracene

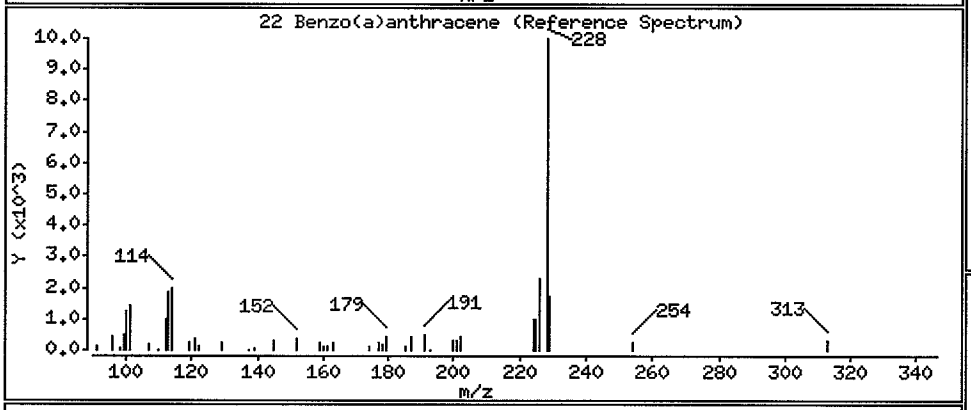
Concentration: 1182 ug/kg

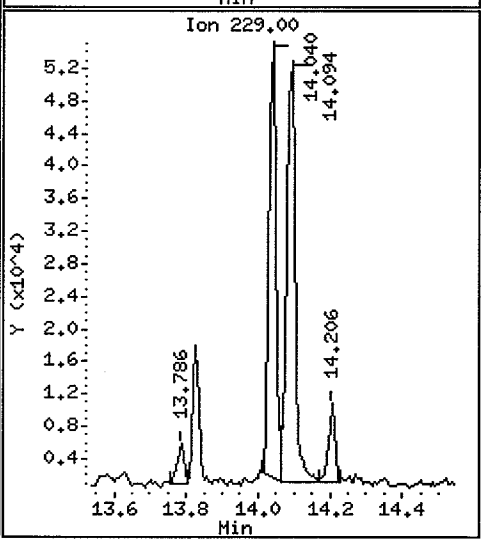


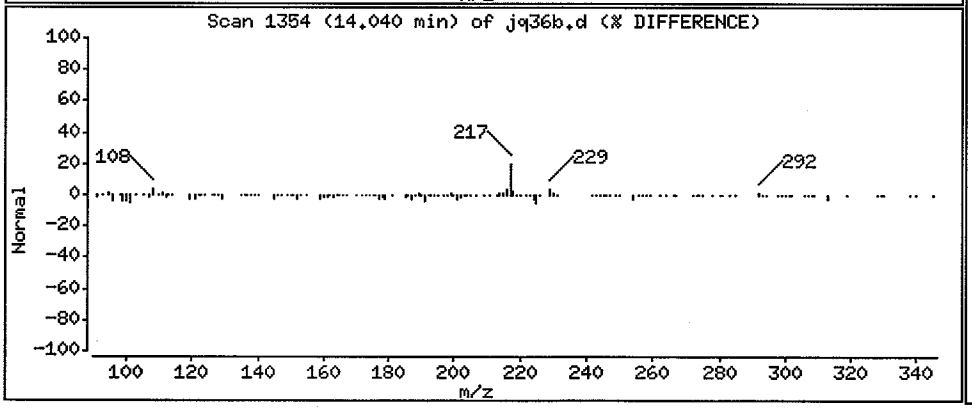












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

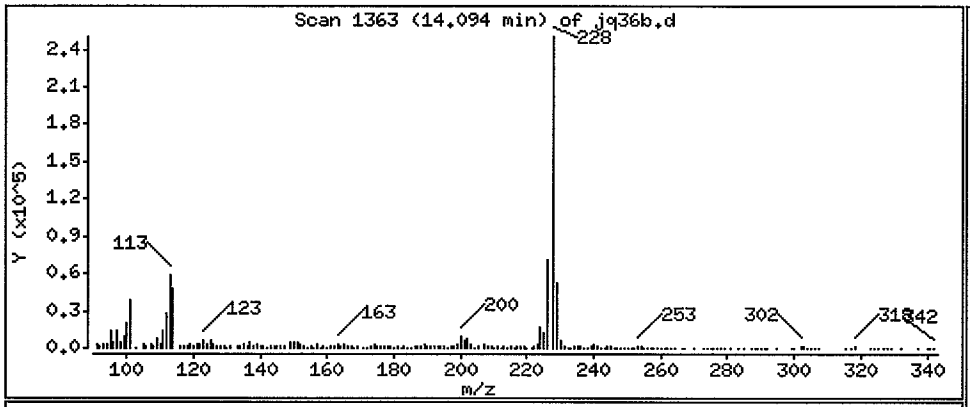
Operator: VTS

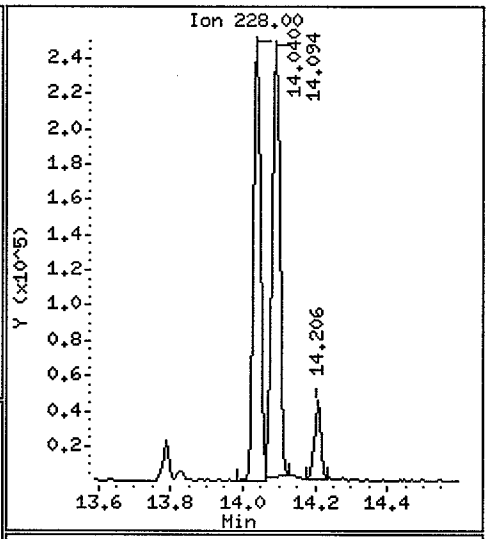
Column phase: ZB-5

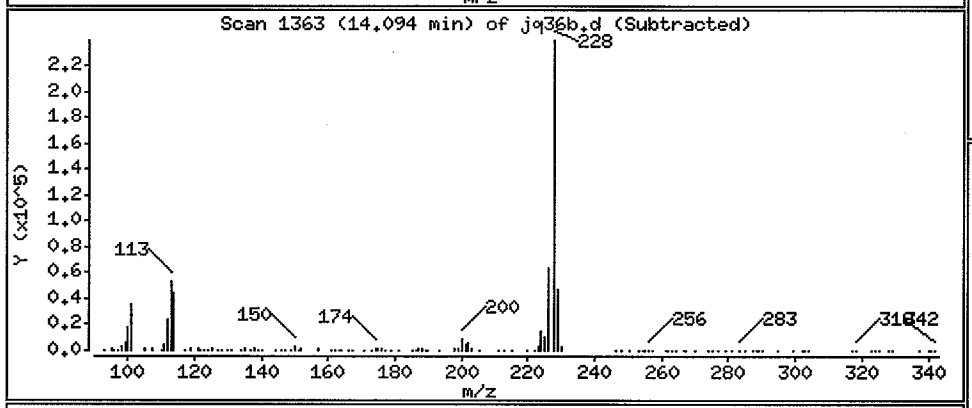
Column diameter: 0.25

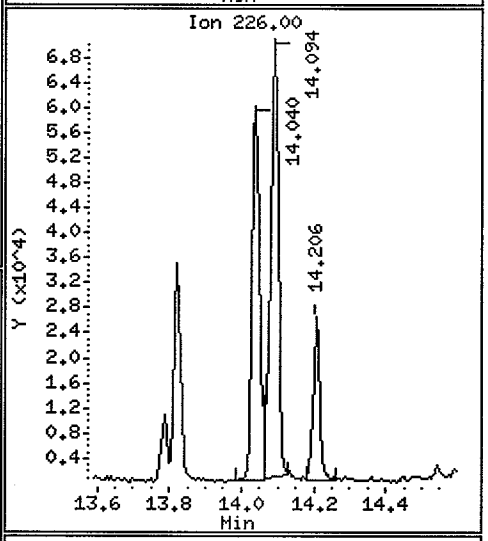
24 Chrysene

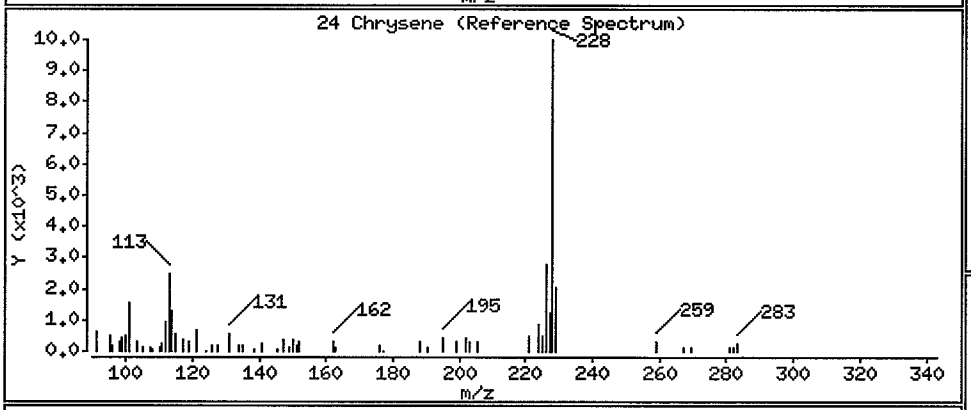
Concentration: 1390 ug/kg

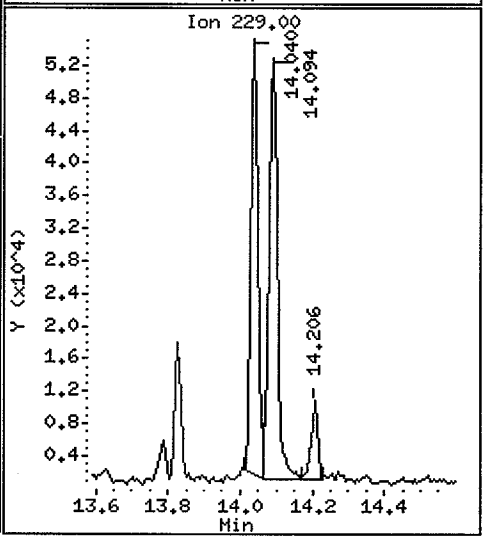


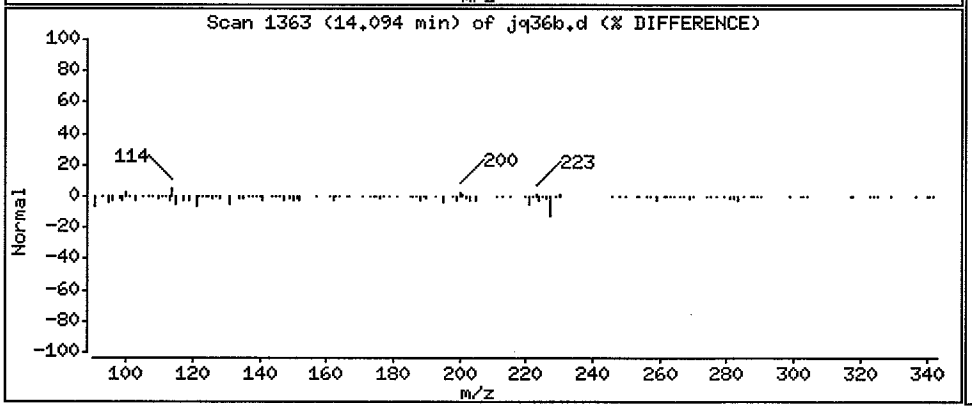












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

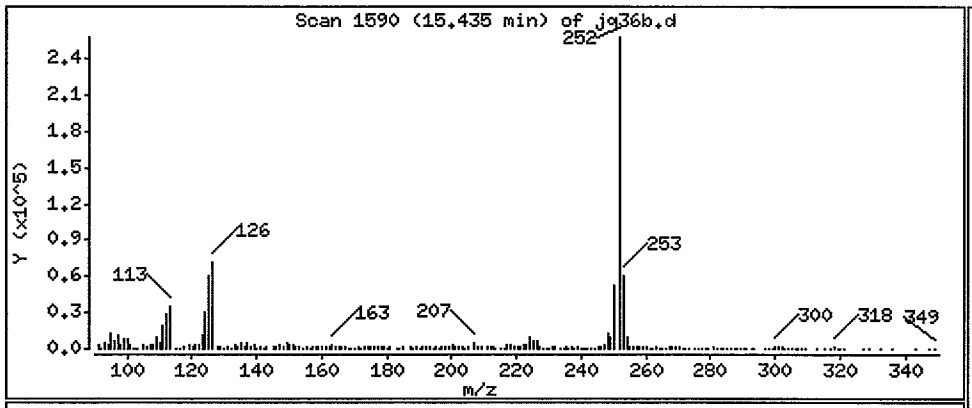
Operator: VTS

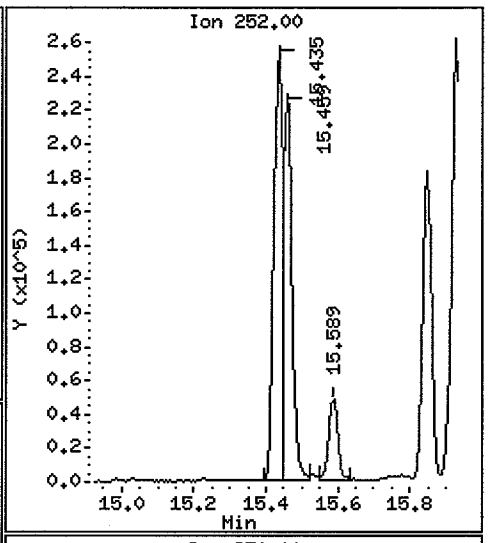
Column phase: ZB-5

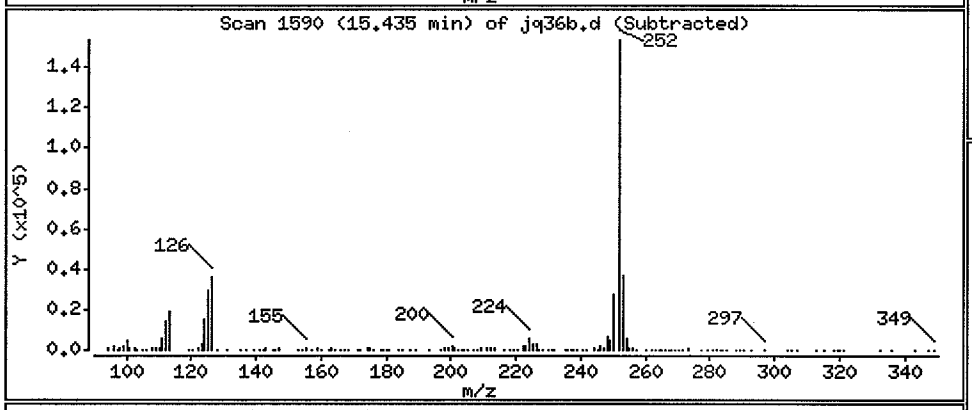
Column diameter: 0.25

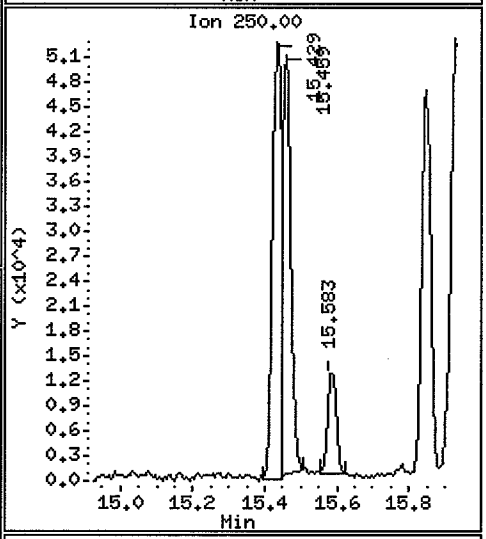
28 Benzo(b)fluoranthene

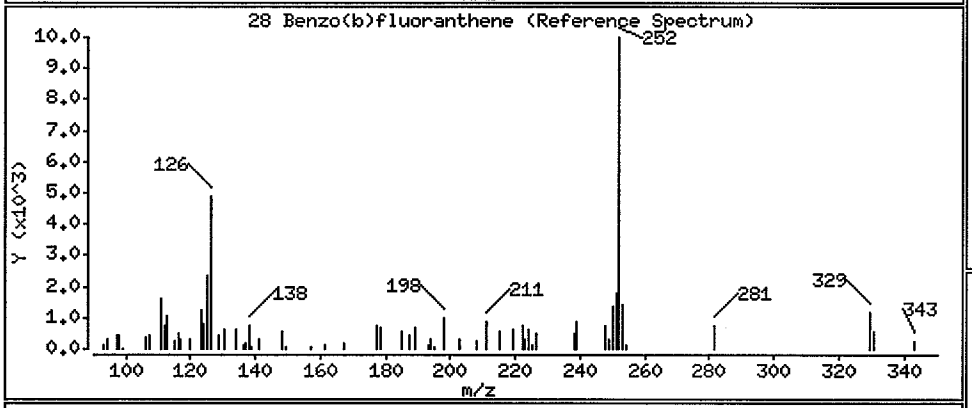
Concentration: 1438 ug/kg

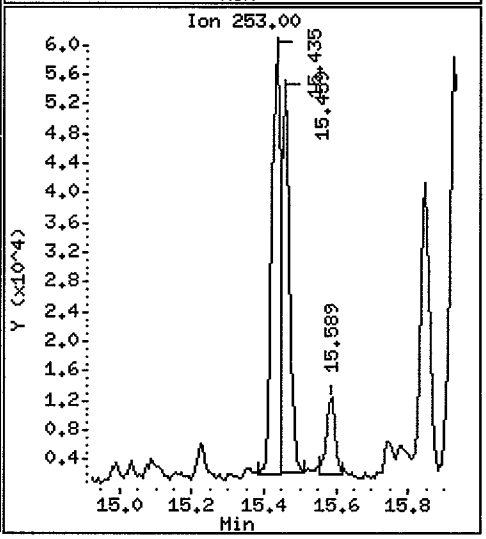


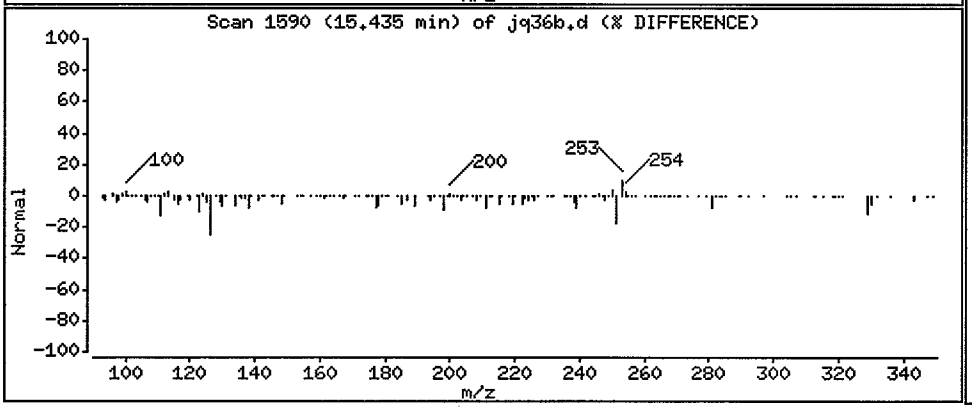












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

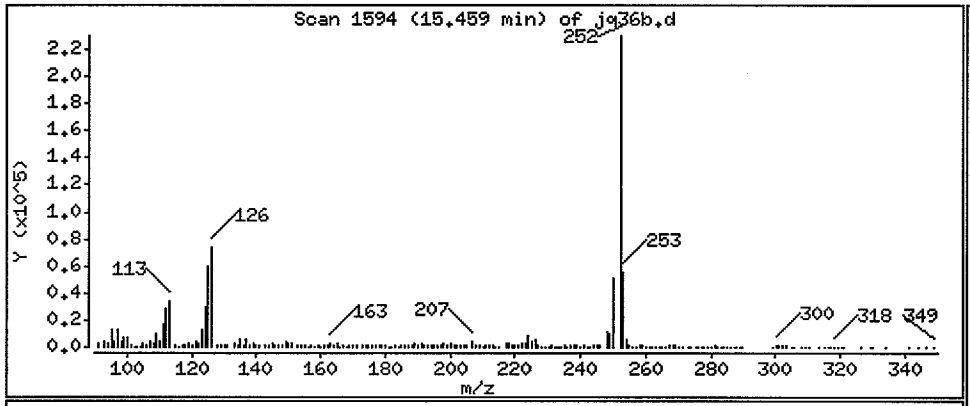
Operator: VTS

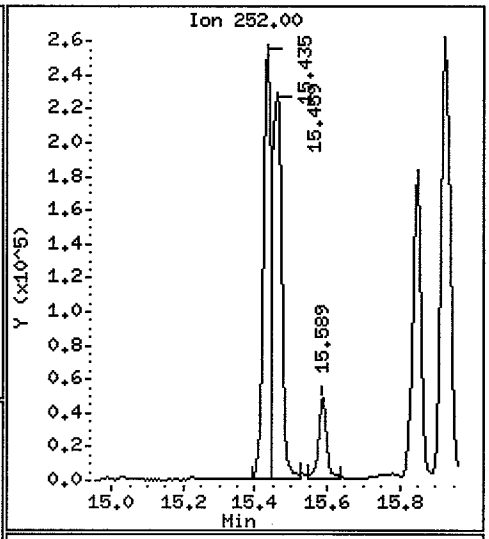
Column phase: ZB-5

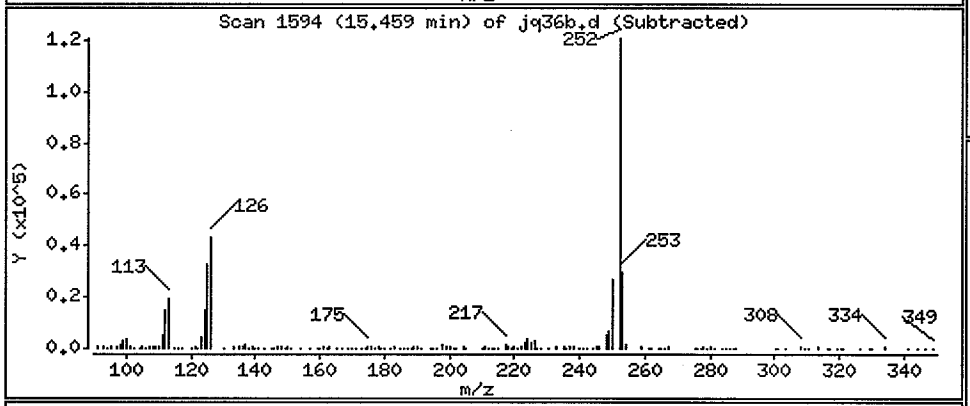
Column diameter: 0.25

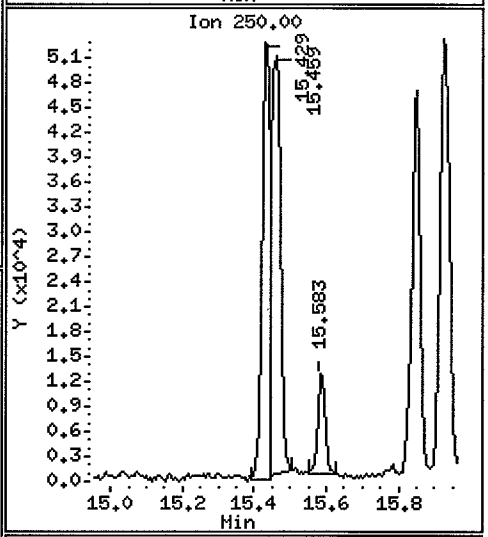
29 Benzo(k)fluoranthene

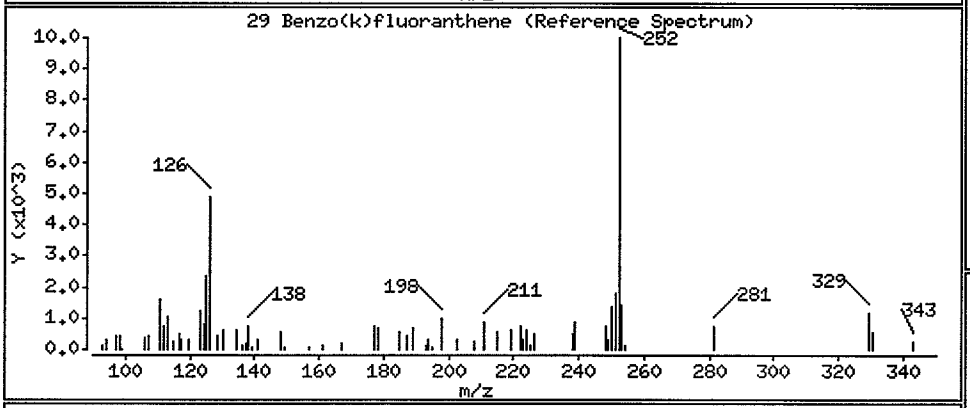
Concentration: 1302 ug/kg

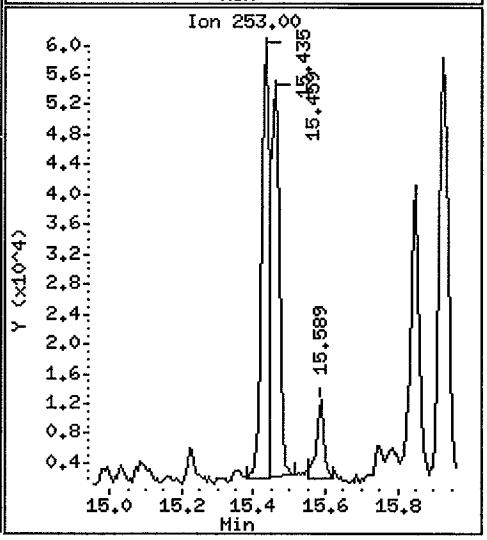


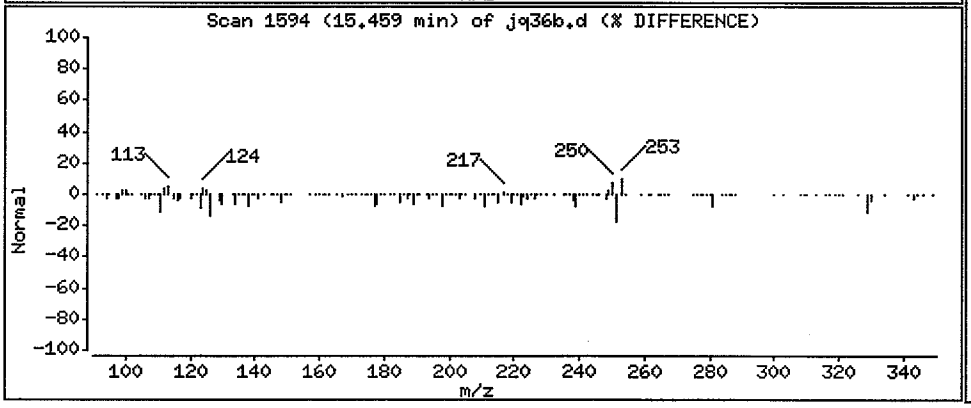












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

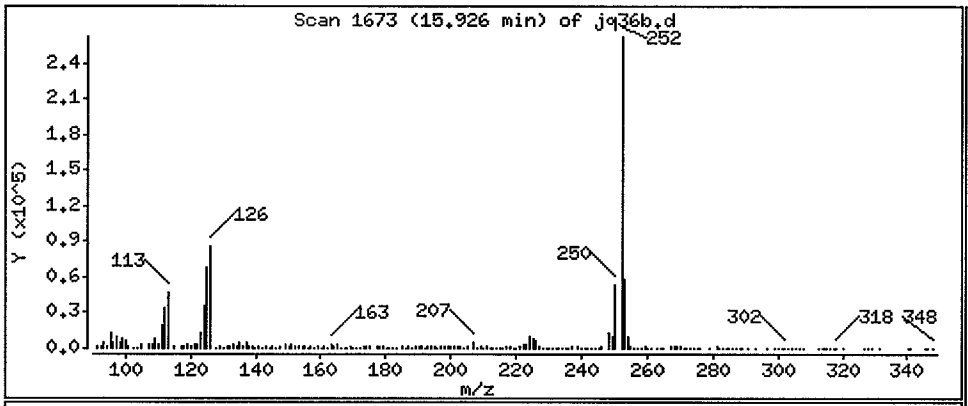
Operator: VTS

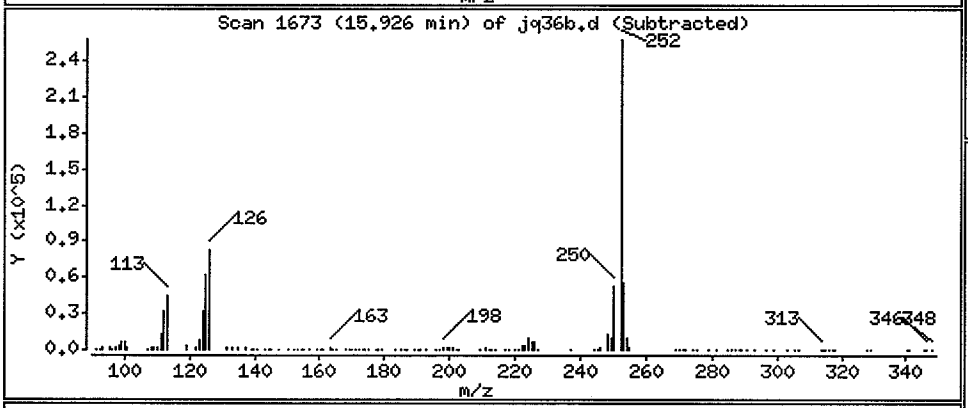
Column phase: ZB-5

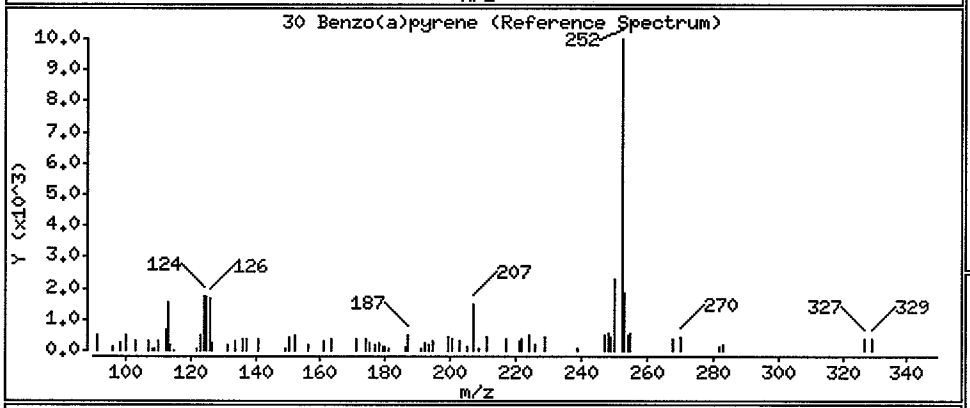
Column diameter: 0.25

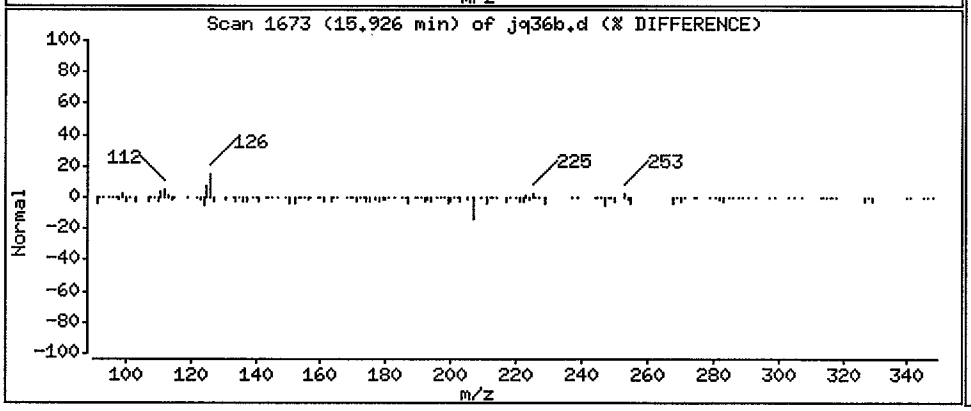
30 Benzo(a)pyrene

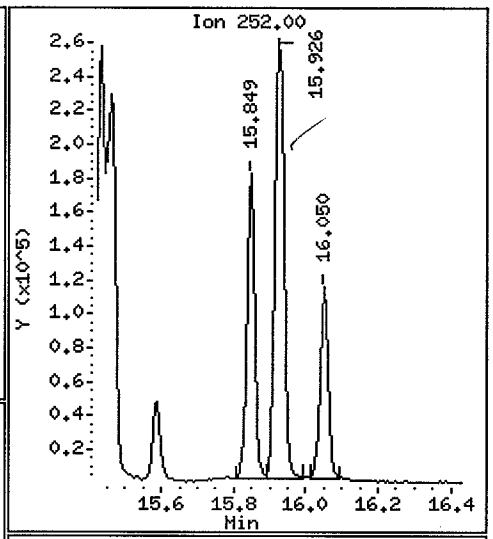
Concentration: 1530 ug/kg

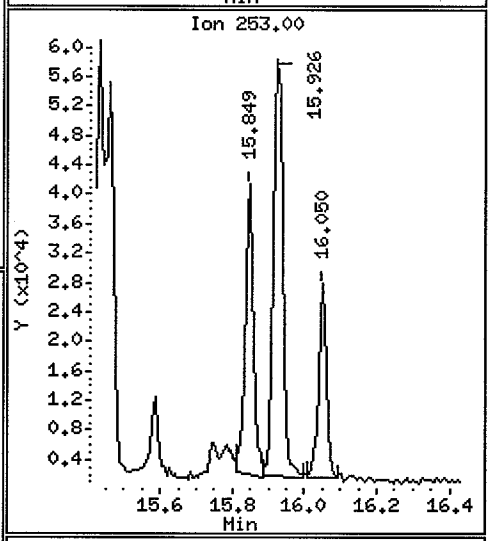


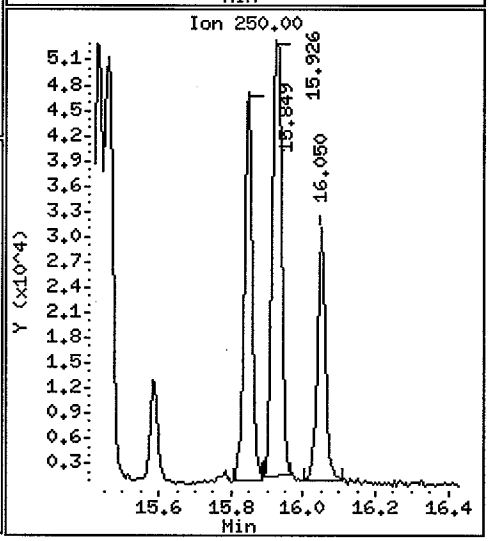












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

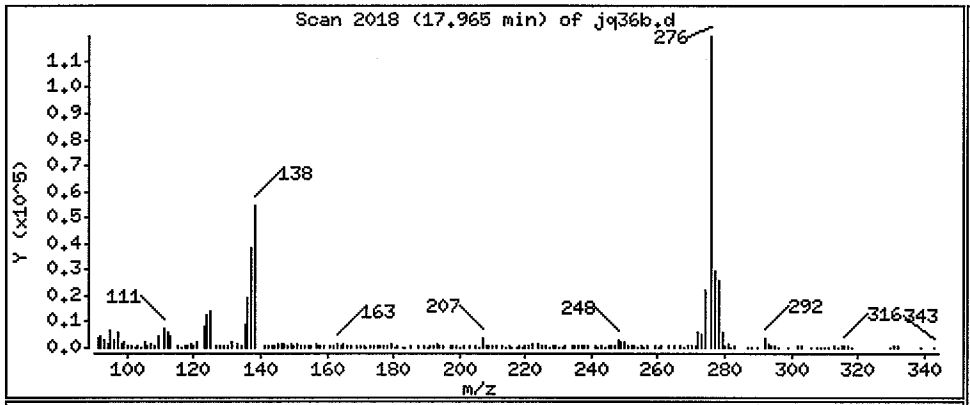
Operator: VTS

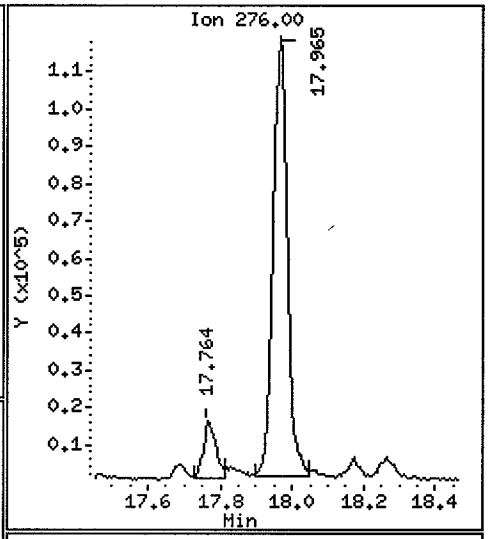
Column phase: ZB-5

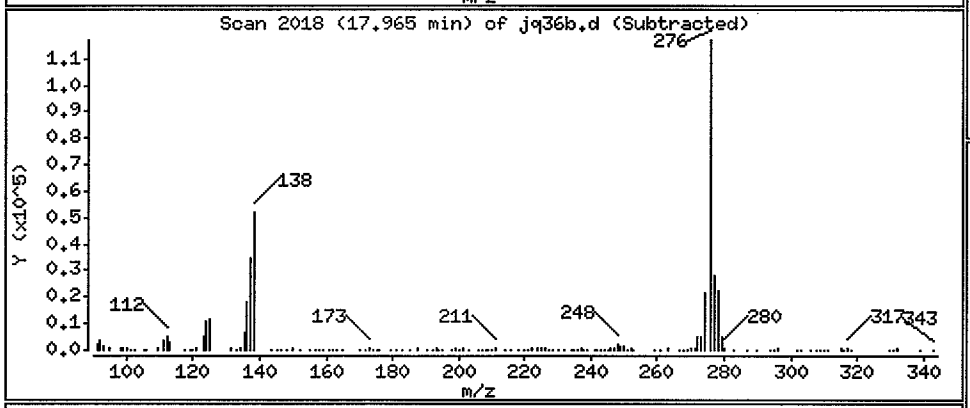
Column diameter: 0.25

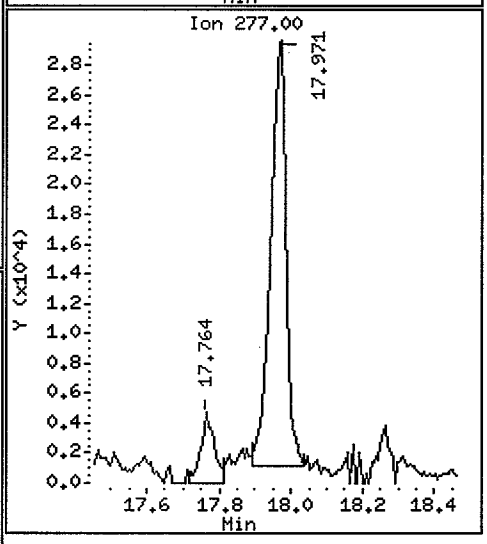
33 Indeno(1,2,3-cd)pyrene

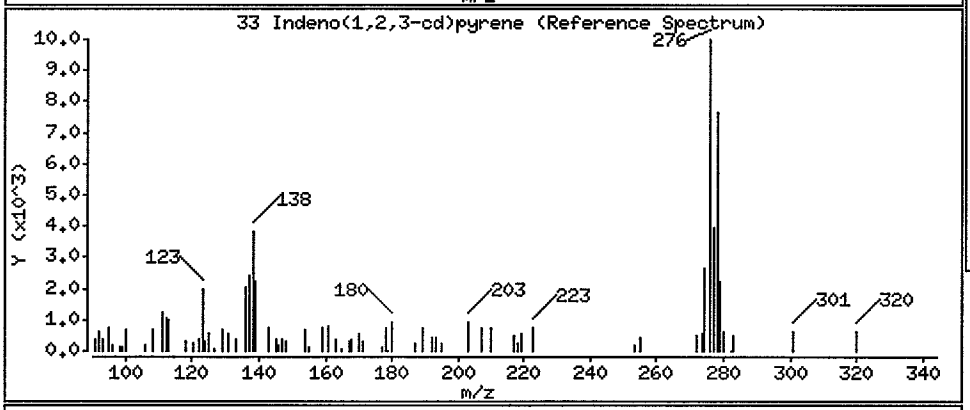
Concentration: 990.5 ug/kg

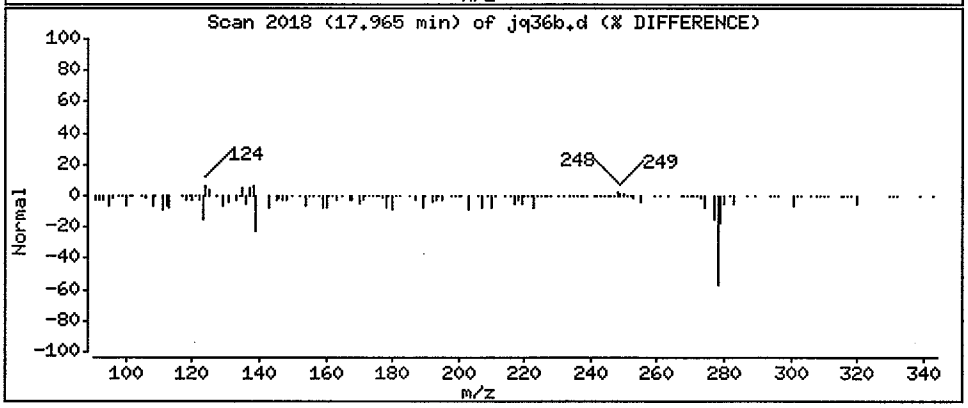












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

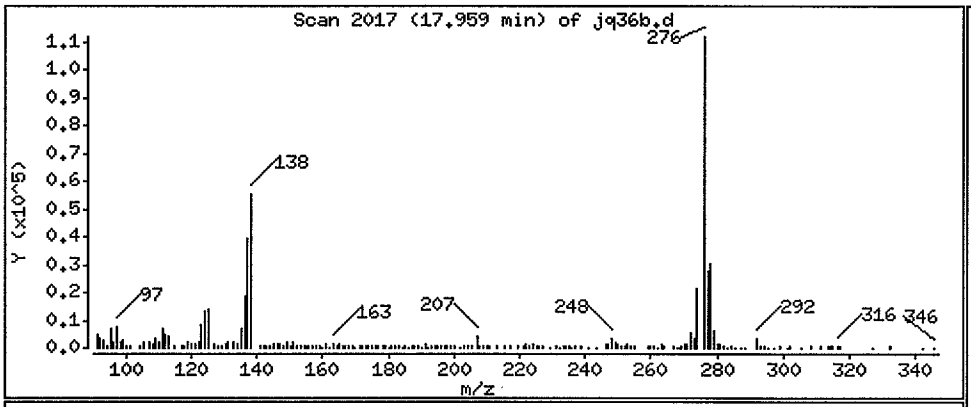
Operator: VTS

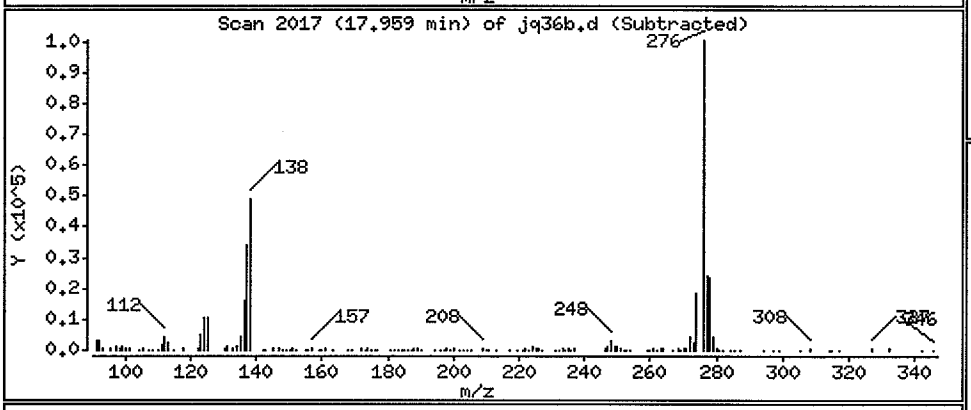
Column phase: ZB-5

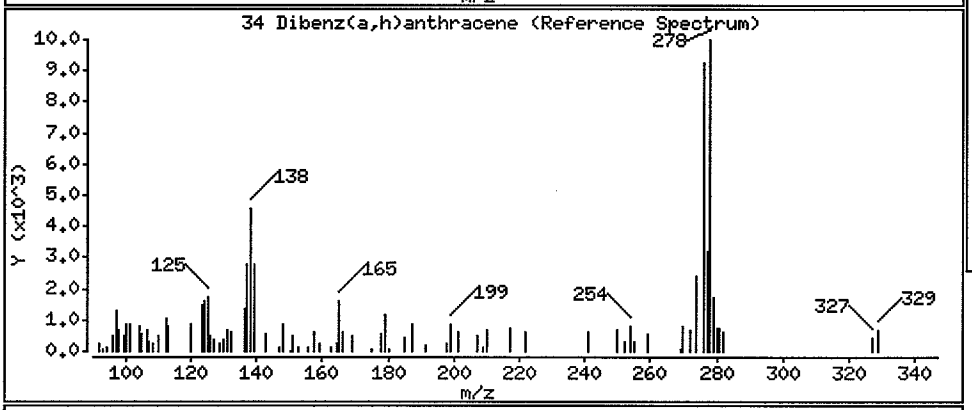
Column diameter: 0.25

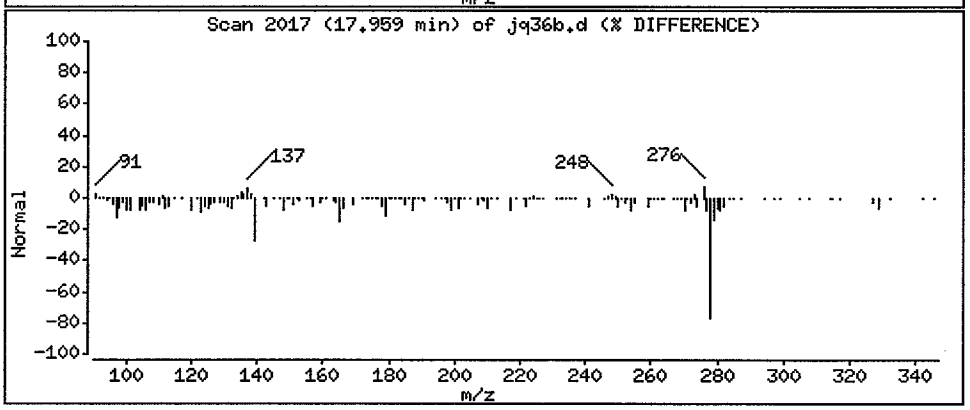
34 Dibenz(a,h)anthracene

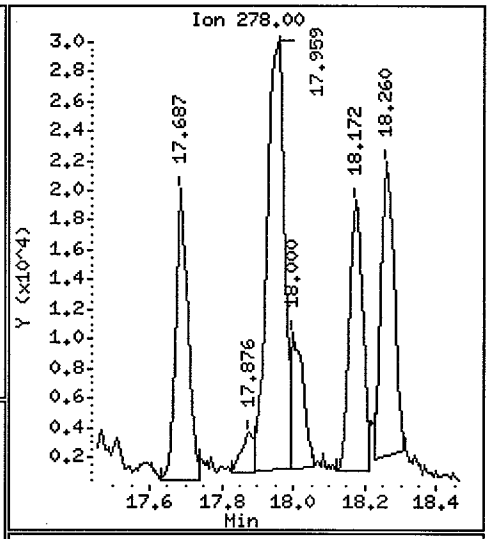
Concentration: 370.9 ug/kg

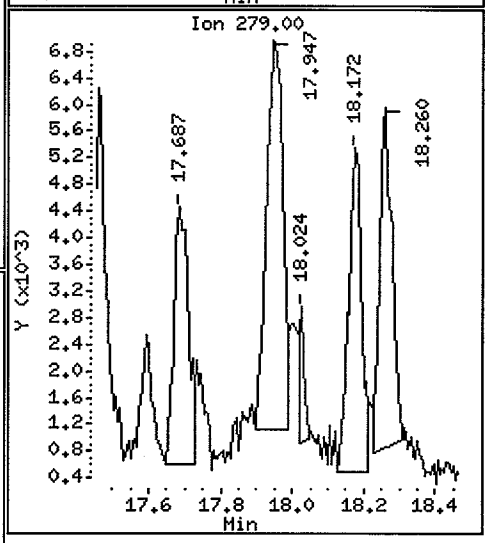












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

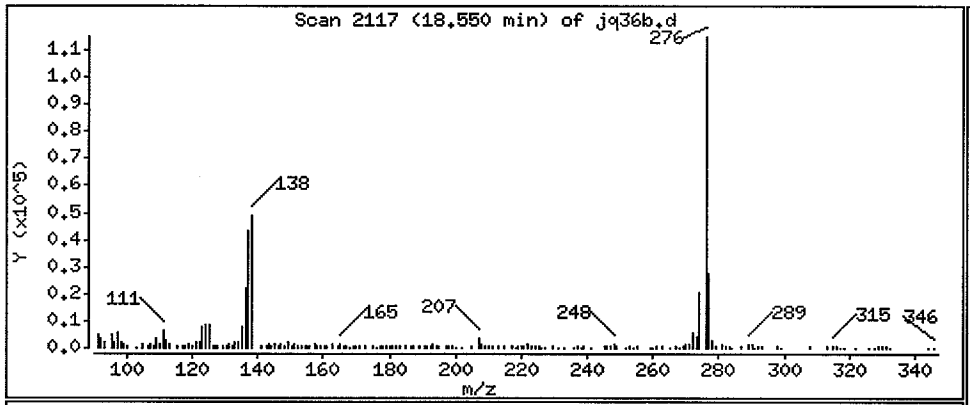
Operator: VTS

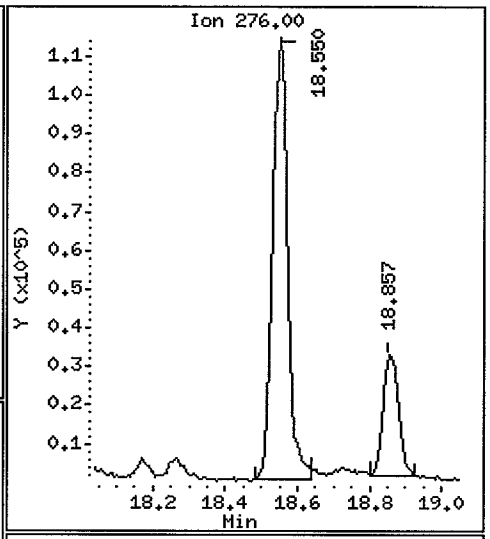
Column phase: ZB-5

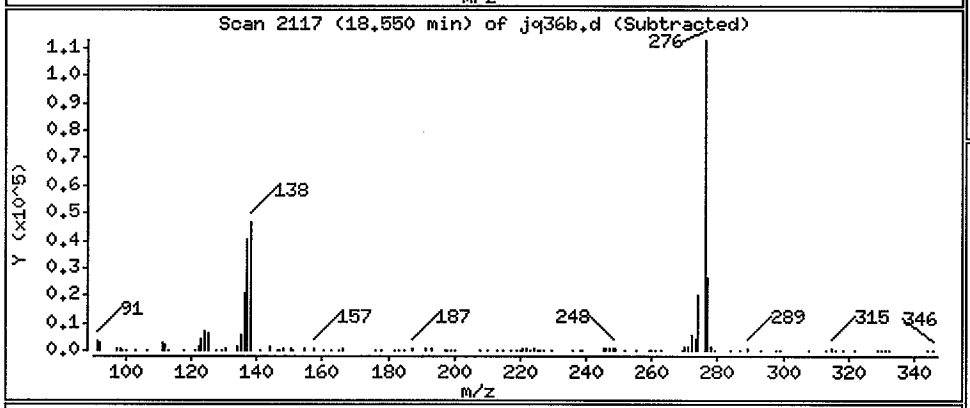
Column diameter: 0.25

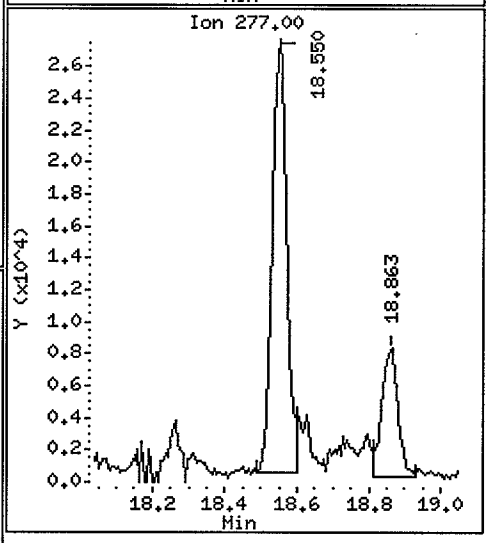
35 Benzo(g,h,i)perylene

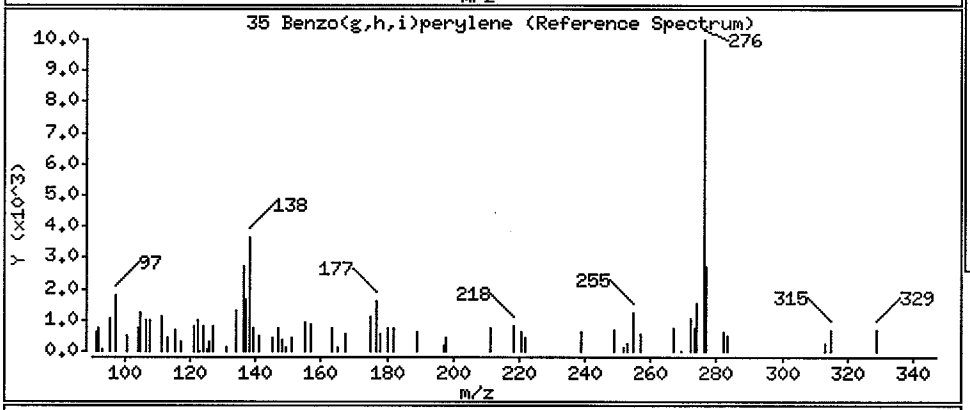
Concentration: 1213 ug/kg

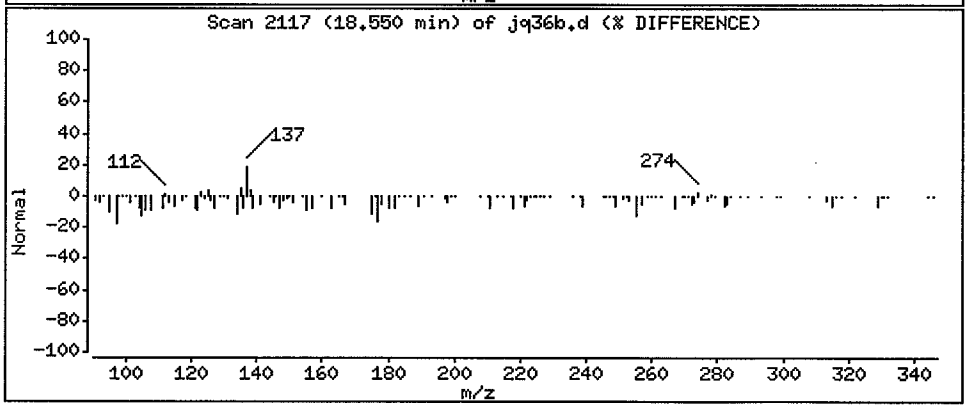












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

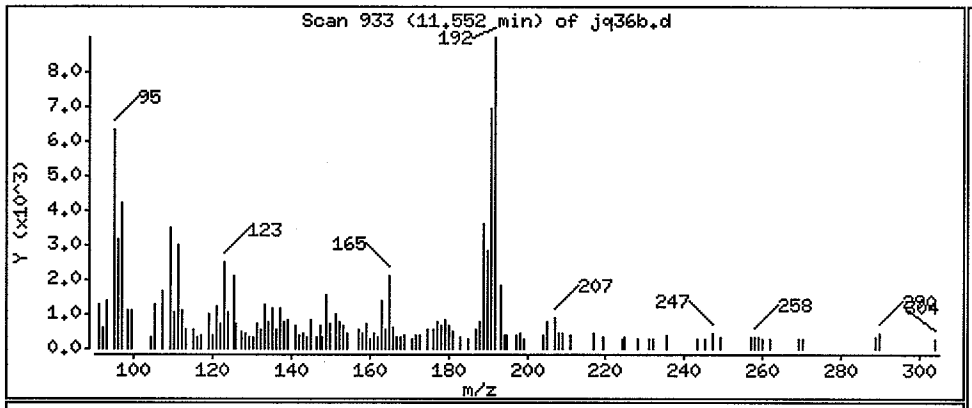
Operator: VTS

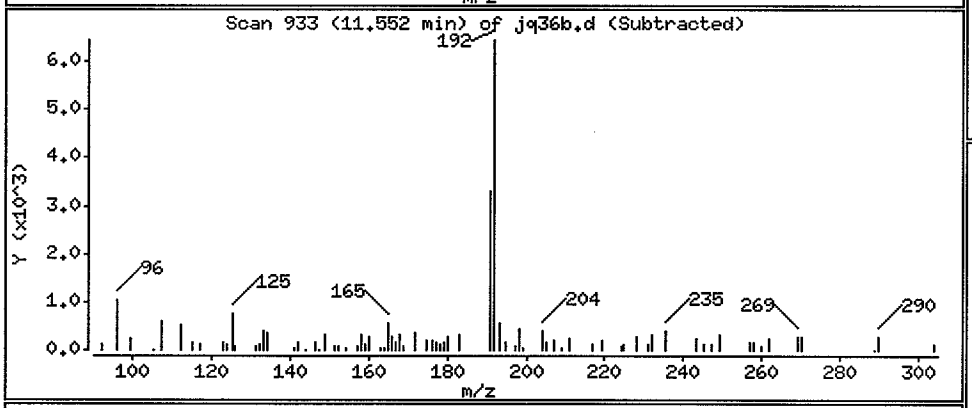
Column phase: ZB-5

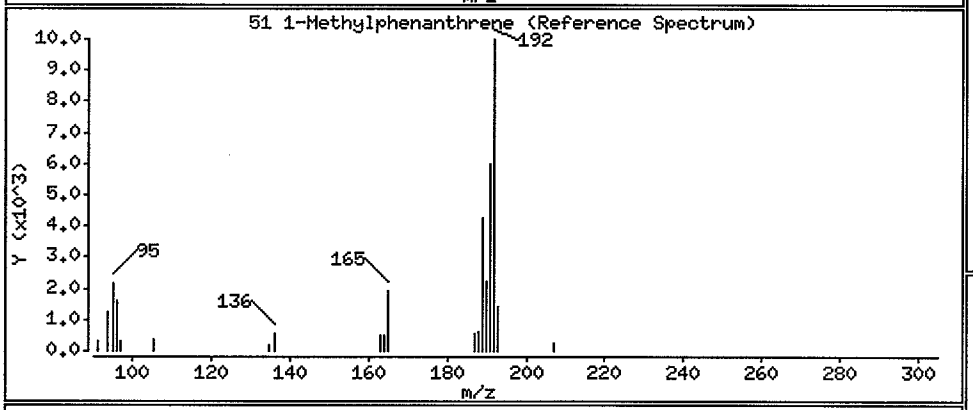
Column diameter: 0.25

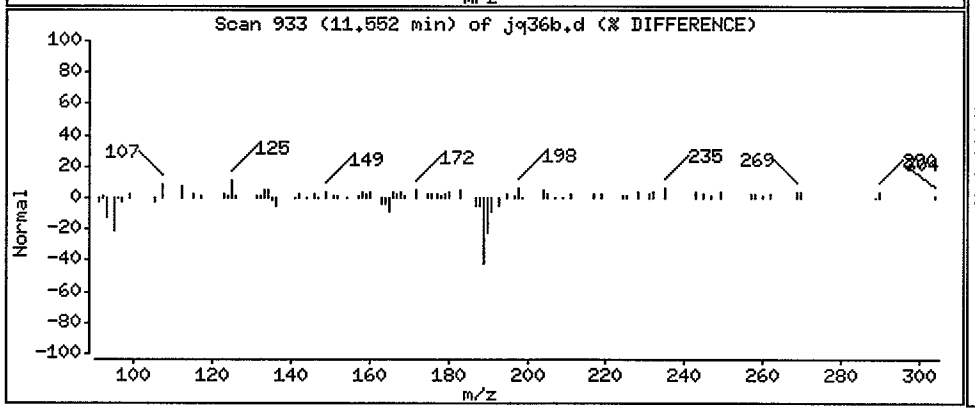
51 1-Methylphenanthrene

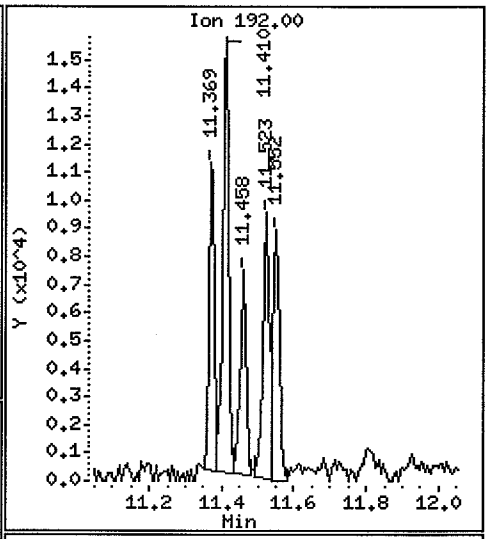
Concentration: 56.76 ug/kg

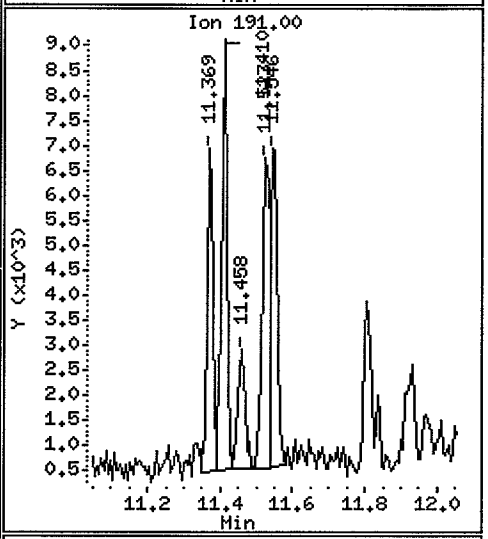


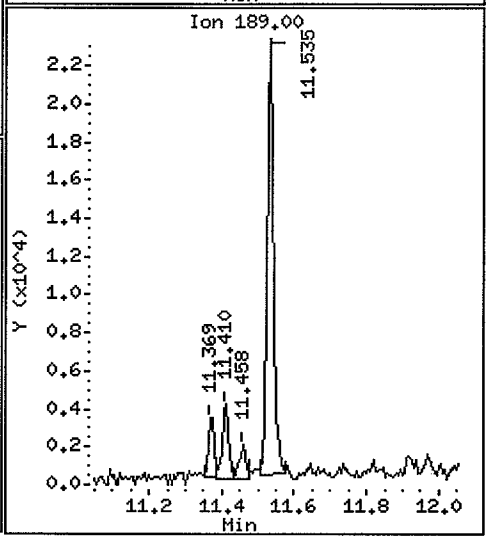












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

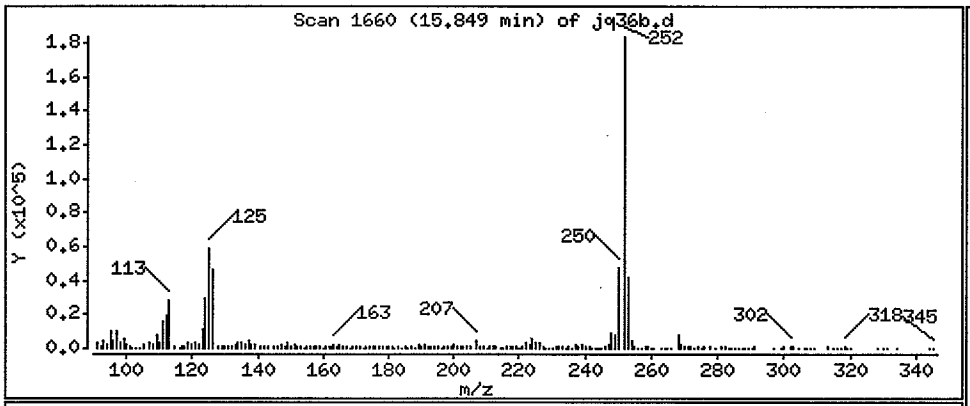
Operator: VTS

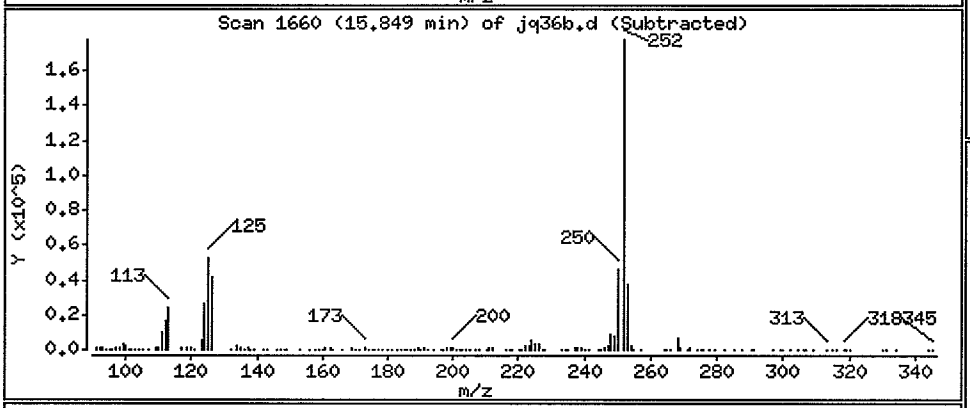
Column phase: ZB-5

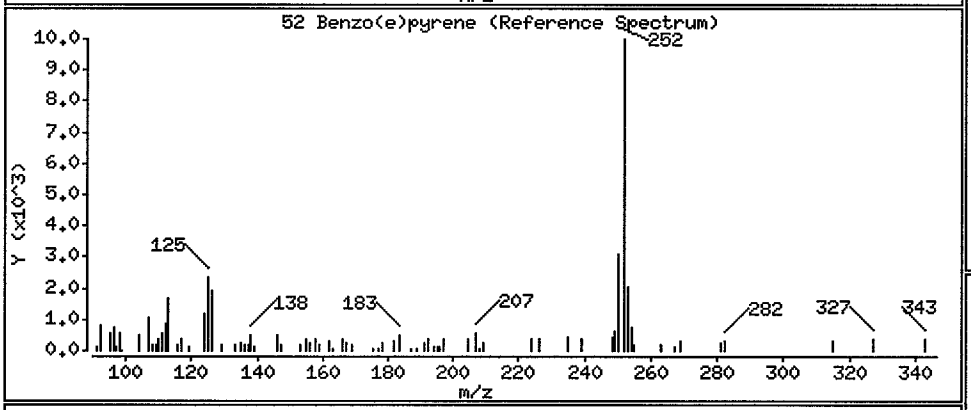
Column diameter: 0.25

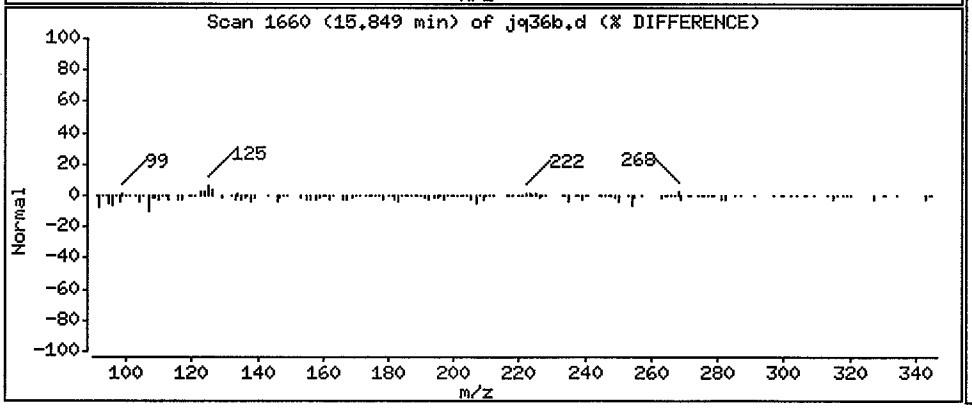
52 Benzo(e)pyrene

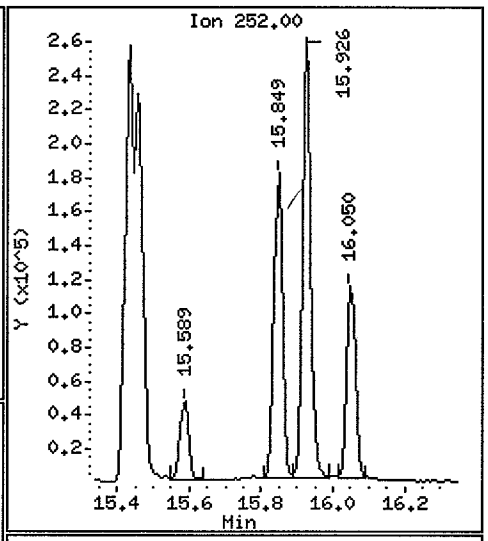
Concentration: 943.8 ug/kg

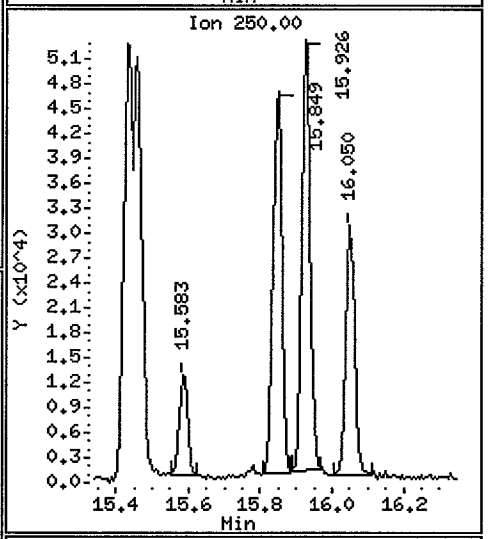


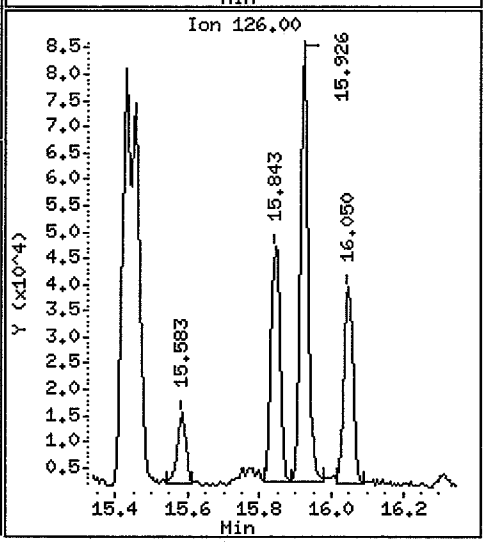












Data File: /chem3/nt1.i/20060809.b/jq36b.d

Date : 09-AUG-2006 10:03

Client ID: T4-S3-07-C

Instrument: nt1.i

Sample Info: JQ36B,10

Volume Injected (uL): 1.0

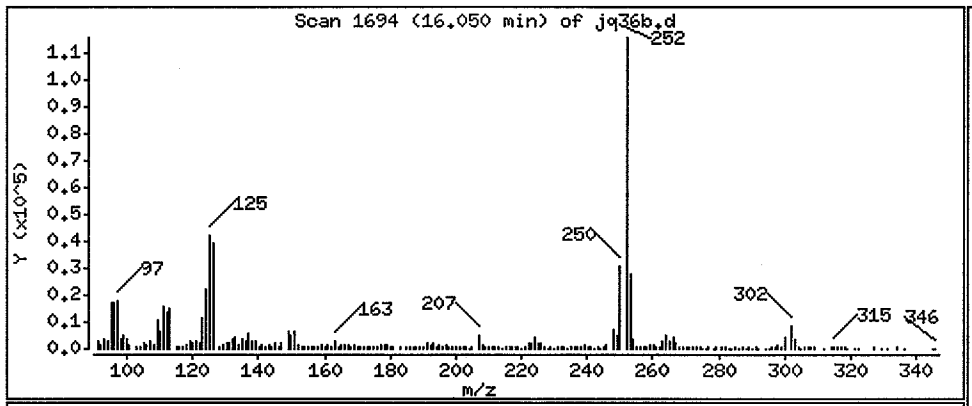
Operator: VTS

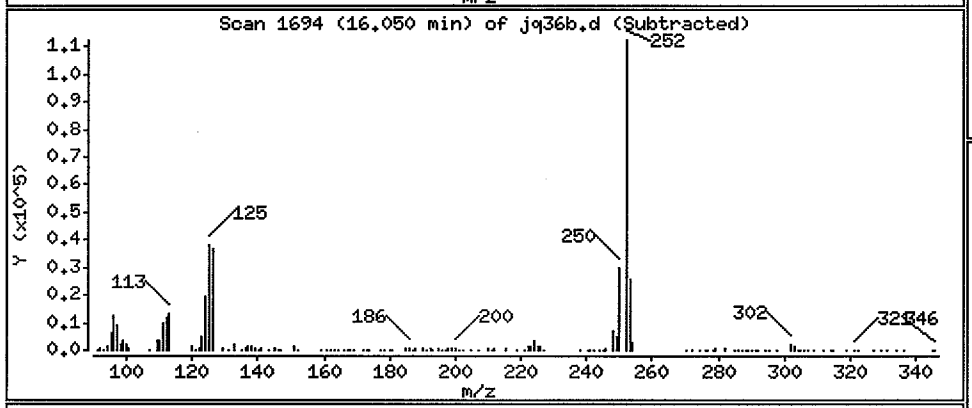
Column phase: ZB-5

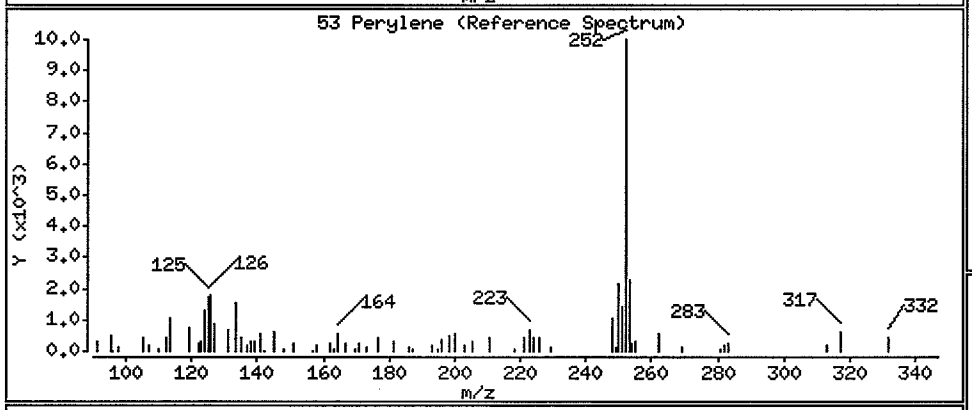
Column diameter: 0.25

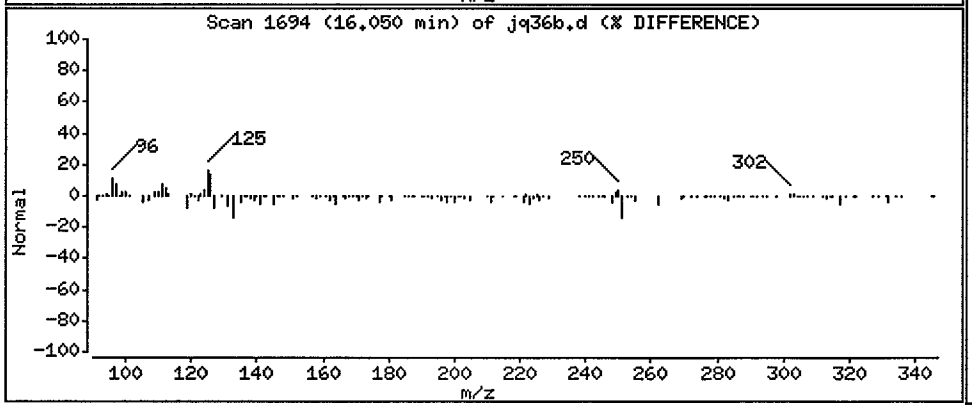
53 Perylene

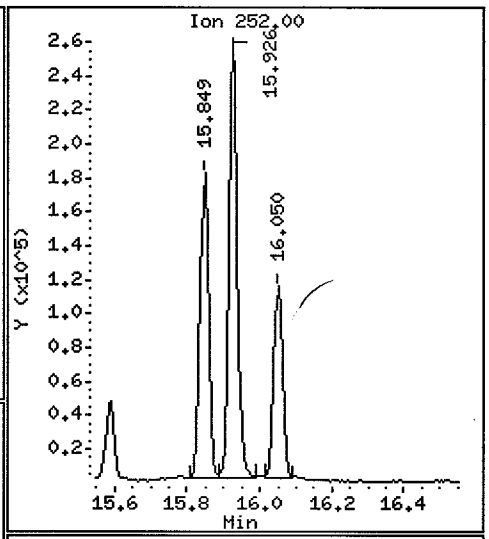
Concentration: 636.9 ug/kg

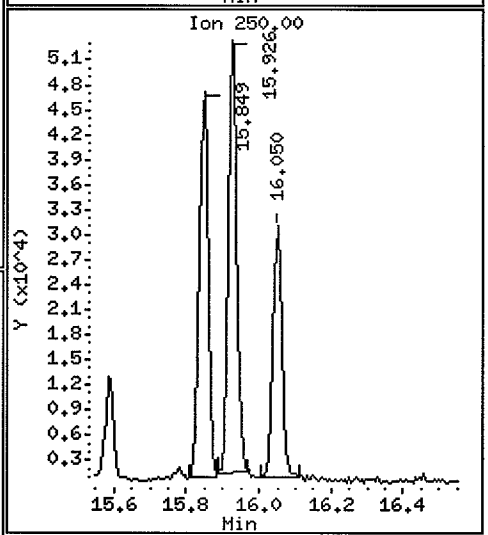


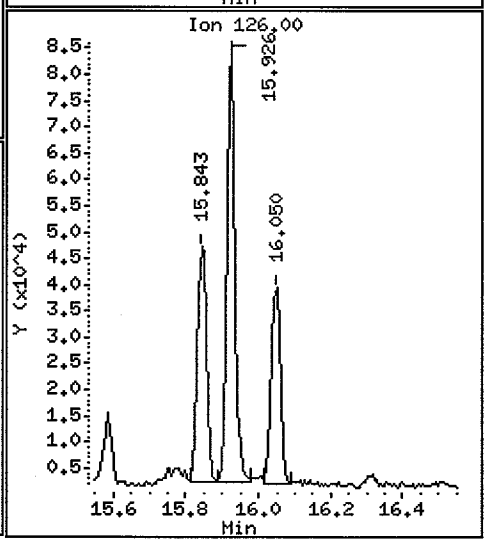












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-07-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36C
LIMS ID: 06-12974
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 10:28
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 34.0%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**48**	**110**	
91-57-6	**2-Methylnaphthalene**	**48**	**63**	
90-12-0	**1-Methylnaphthalene**	**48**	**34**	**J**
208-96-8	**Acenaphthylene**	**48**	**29**	**J**
83-32-9	**Acenaphthene**	**48**	**520**	
86-73-7	**Fluorene**	**48**	**250**	
85-01-8	**Phenanthrene**	**48**	**2,000**	
120-12-7	**Anthracene**	**48**	**430**	
206-44-0	**Fluoranthene**	**48**	**4,500**	
129-00-0	**Pyrene**	**48**	**3,800**	
56-55-3	**Benzo(a)anthracene**	**48**	**2,600**	
218-01-9	**Chrysene**	**48**	**3,200**	
205-99-2	**Benzo(b)fluoranthene**	**48**	**3,400**	
207-08-9	**Benzo(k)fluoranthene**	**48**	**2,800**	
50-32-8	**Benzo(a)pyrene**	**48**	**3,400**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**48**	**2,100**	
53-70-3	**Dibenz(a,h)anthracene**	**48**	**700**	
191-24-2	**Benzo(g,h,i)perylene**	**48**	**2,400**	
198-55-0	**Perylene**	**49**	**1,100**	
92-52-4	Biphenyl	49	< 49	U
581-42-0	2,6-Dimethylnaphthalene	48	< 48	U
832-69-9	**1-Methylphenanthrene**	**48**	**140**	
192-97-2	**Benzo(e)pyrene**	**48**	**2,100**	
2245-38-7	2,3,5-Trimethylnaphthalene	48	< 48	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracen	91.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq36c.d
Lab Smp Id: JQ36C Client Smp ID: T4-S3-07-D
Inj Date : 09-AUG-2006 10:28
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36C,10
Misc Info : 06-12974
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 09:48 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	15.60000	Weight of sample extracted (g)
M	34.00000	% 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	6.877	6.877	(1.000)	286948	2.00000		
	2 Naphthalene	128	6.901	6.901	(1.003)	32974	0.23038	111.9	
$	3 2-Methylnaphthalene-d10	152	7.633	7.634	(1.110)	15667	0.21198	102.9	
	4 2-Methylnaphthalene	142	7.669	7.669	(1.115)	11192	0.13204	64.12	
	5 1-Methylnaphthalene	142	7.799	7.799	(1.134)	6217	0.06992	33.96	J
	7 Acenaphthylene	152	8.756	8.757	(0.980)	7601	0.06386	31.01	J
*	8 Acenaphthene-d10	164	8.934	8.934	(1.000)	143552	2.00000		
	9 Acenaphthene	153	8.975	8.975	(1.005)	74559	1.05778	513.7	
	10 Dibenzofuran	168	9.164	9.164	(1.026)	22683	0.21847	106.1	
	11 Fluorene	166	9.584	9.590	(1.073)	41146	0.50907	247.2	
*	15 Phenanthrene-d10	188	10.748	10.748	(1.000)	214338	2.00000		
	16 Phenanthrene	178	10.778	10.778	(1.003)	465078	4.22736	2053	
	17 Anthracene	178	10.831	10.837	(1.008)	96660	0.87918	427.0	
	19 Fluoranthene	202	12.273	12.273	(1.142)	1046948	9.32994	4531	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.562	12.557	(0.893)	1046870	7.89910	3836	
	22 Benzo(a)anthracene	228	14.040	14.040	(0.998)	666057	5.35905	2602	
*	23 Chrysene-d12	240	14.064	14.058	(1.000)	206392	2.00000		
	24 Chrysene	228	14.093	14.093	(1.002)	765648	6.67894	3243	
	28 Benzo(b)fluoranthene	252	15.441	15.429	(0.964)	934770	7.03337	3416	
	29 Benzo(k)fluoranthene	252	15.464	15.459	(0.966)	818225	5.77478	2804	
	30 Benzo(a)pyrene	252	15.931	15.926	(0.995)	918456	7.09216	3444	
*	31 Perylene-d12	264	16.014	16.008	(1.000)	235490	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.976	17.959	(1.123)	652254	4.37965	2127	
$	32 Dibenz(a,h)anthrancene-d14	292	17.888	17.888	(1.117)	24582	0.27277	132.5	
	34 Dibenz(a,h)anthracene	278	17.958	17.959	(1.121)	175838	1.44527	701.9	
	35 Benzo(g,h,i)perylene	276	18.561	18.544	(1.159)	624502	5.04454	2450	
	48 Biphenyl	154	Compound Not Detected.						
	49 2,6-Dimethylnaphthalene	156	8.402	8.402	(0.940)	4639	0.06641	32.25	J
	50 2,3,5-Trimethylnaphthalene	170	9.418	9.424	(1.054)	3803	0.06647	32.28	J
	51 1-Methylphenanthrene	192	11.552	11.552	(0.821)	24885	0.29456	143.0	
	52 Benzo(e)pyrene	252	15.854	15.843	(0.990)	623883	4.35219	2114	
	53 Perylene	252	16.055	16.050	(1.003)	316091	2.34846	1140	

VTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36c.d
Lab Smp Id: JQ36C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12974

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-S3-07-D
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	286948	19.52
8 Acenaphthene-d10	117778	58889	235556	143552	21.88
15 Phenanthrene-d10	165702	82851	331404	214338	29.35
23 Chrysene-d12	120342	60171	240684	206392	71.50
31 Perylene-d12	134879	67440	269758	235490	74.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	0.00
8 Acenaphthene-d10	8.93	8.43	9.43	8.93	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.04
31 Perylene-d12	16.01	15.51	16.51	16.01	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

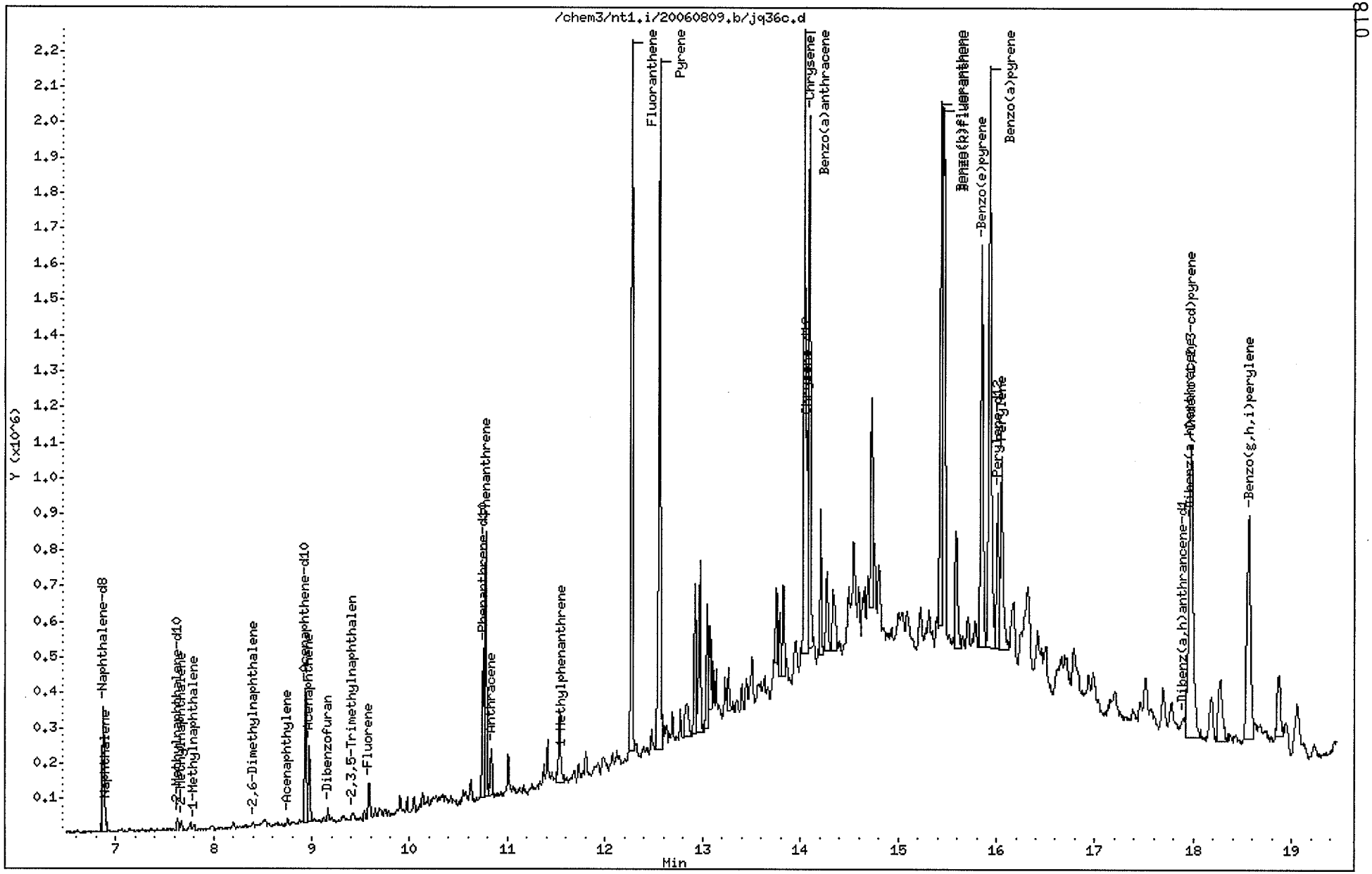
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36C
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12974

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-07-D
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	145.7	102.9	70.66	32-97
$ 32 Dibenz(a,h)anthran	145.7	132.5	90.92	21-105

Data File: /chem3/nt1.i/20060809.b/jq36c.d
Date : 09-AUG-2006 10:28
Client ID: T4-S3-07-D
Sample Info: JQ36C,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0185

Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

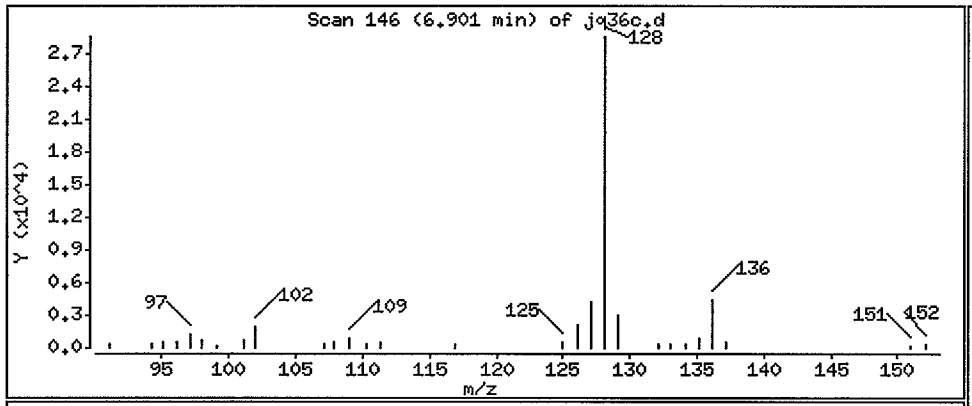
Operator: VTS

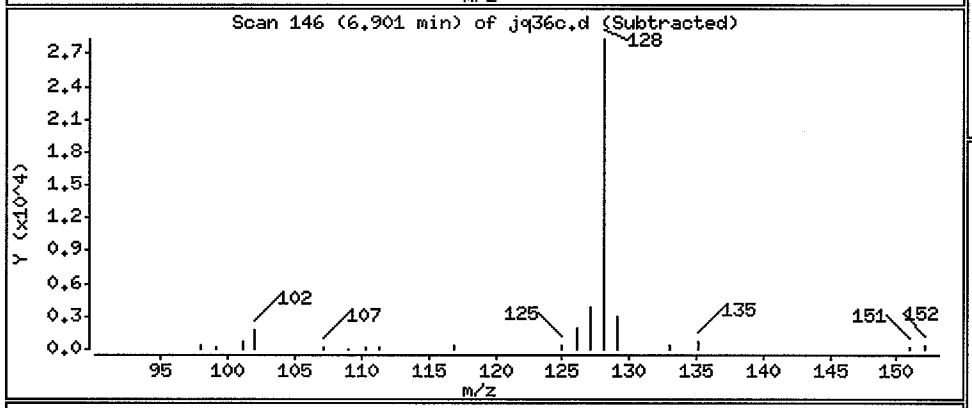
Column phase: ZB-5

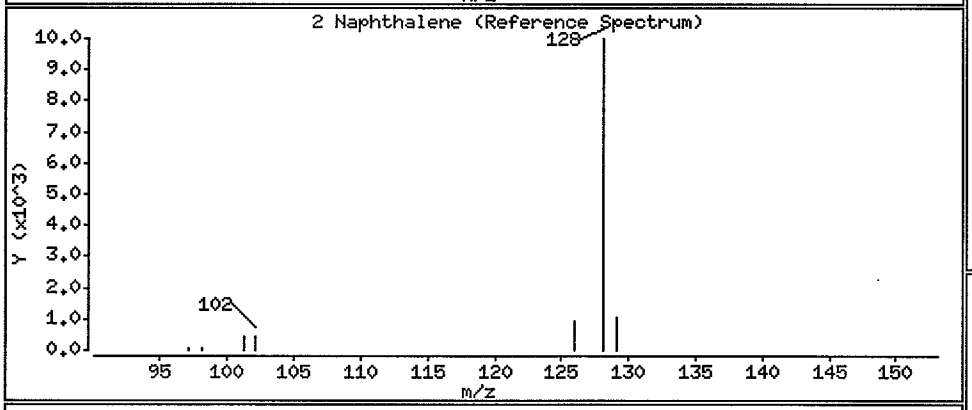
Column diameter: 0.25

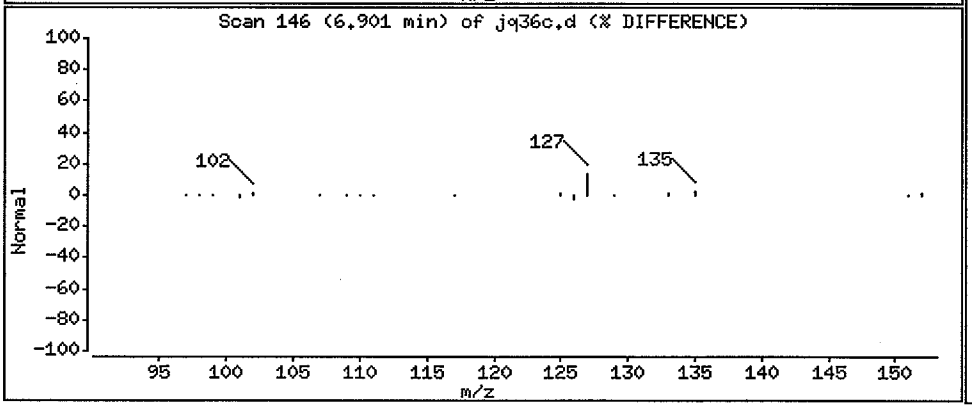
2 Naphthalene

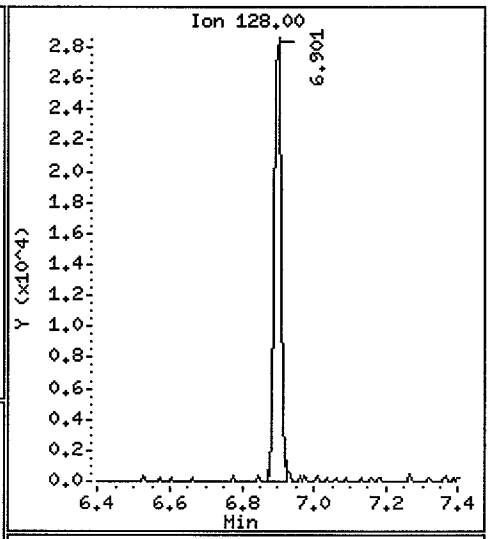
Concentration: 111.9 ug/kg

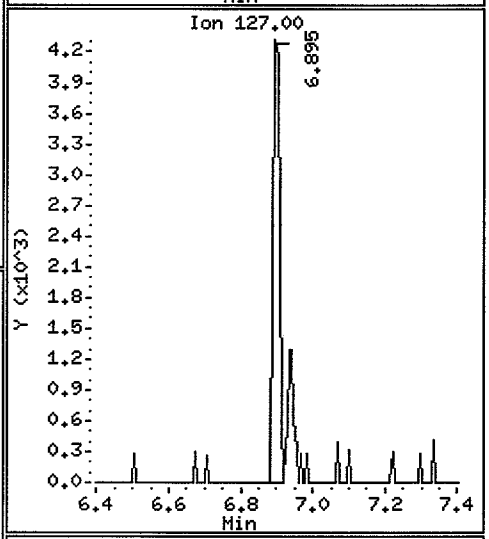


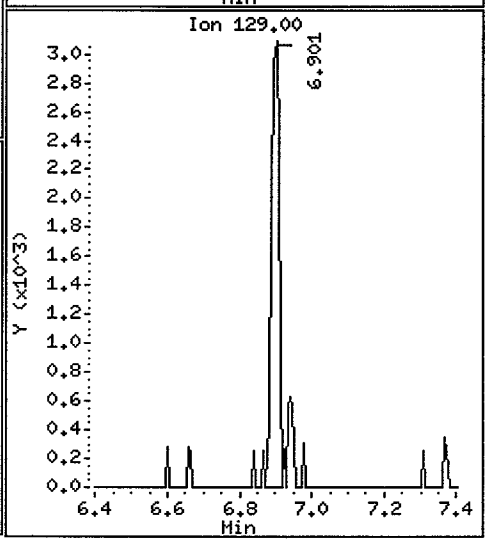












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

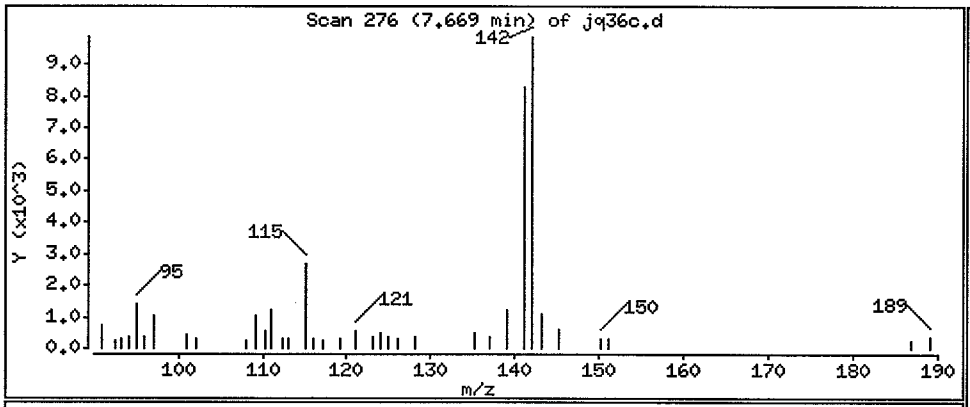
Operator: VTS

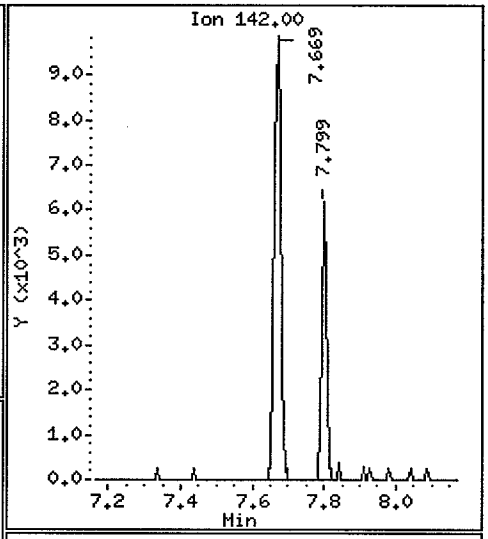
Column phase: ZB-5

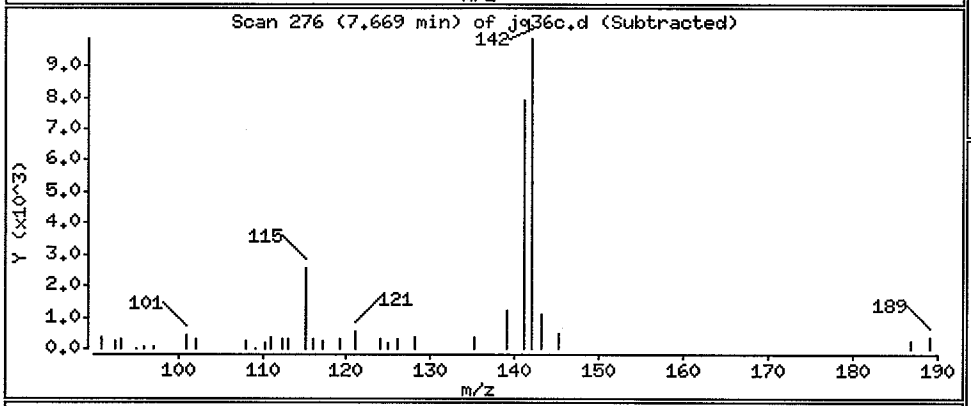
Column diameter: 0.25

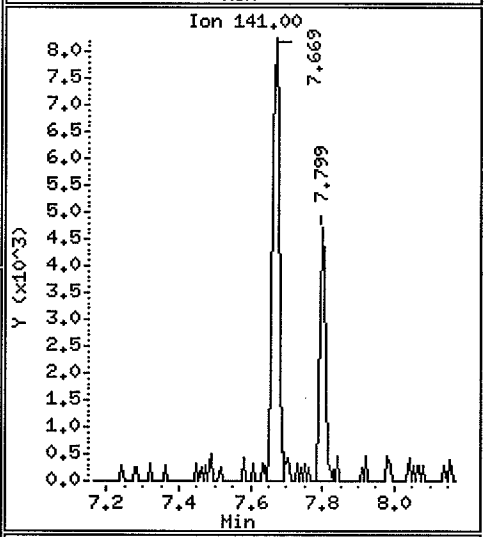
4 2-Methylnaphthalene

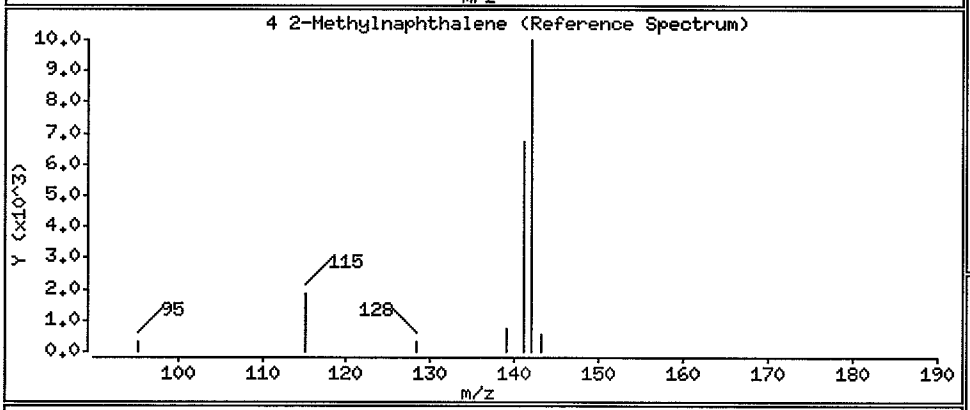
Concentration: 64.12 ug/kg

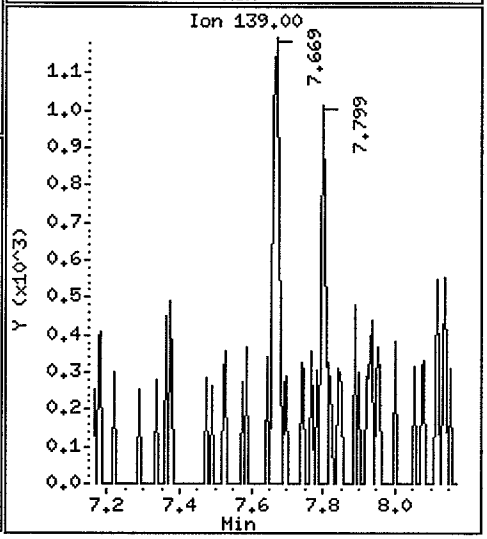


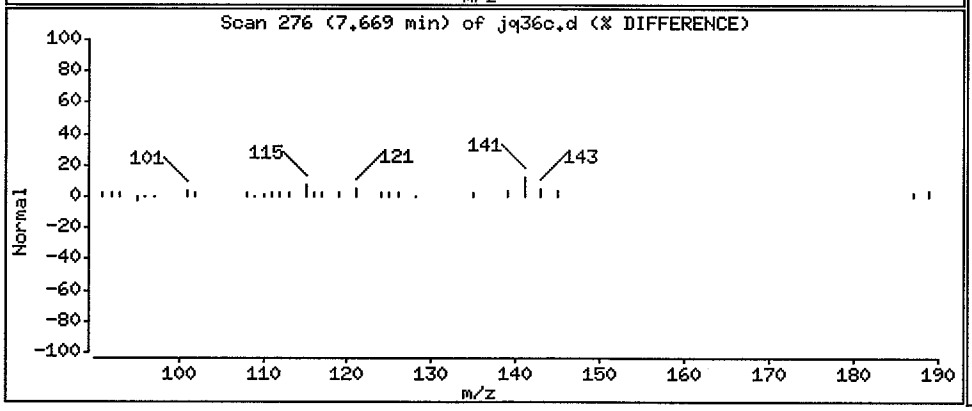












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

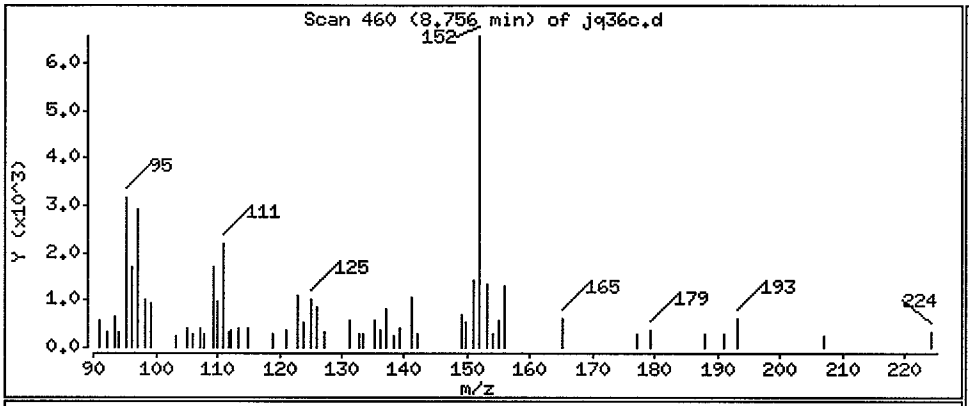
Operator: VTS

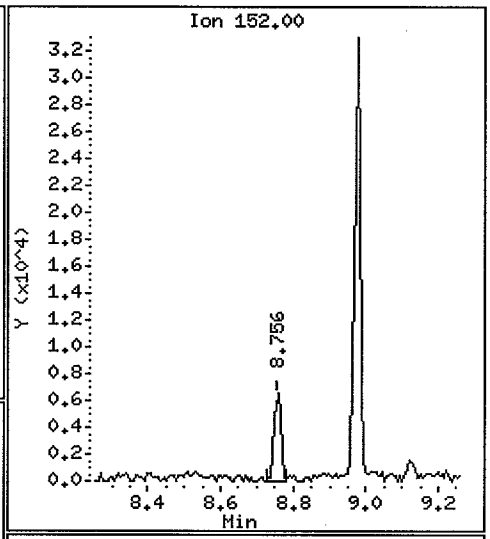
Column phase: ZB-5

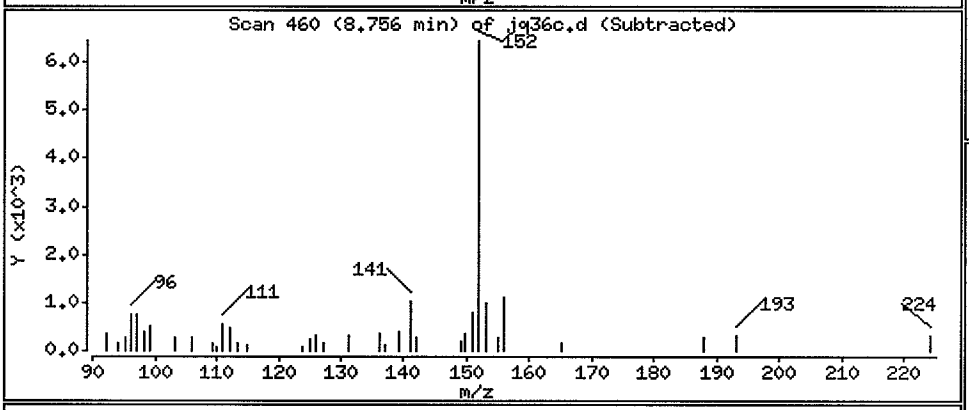
Column diameter: 0.25

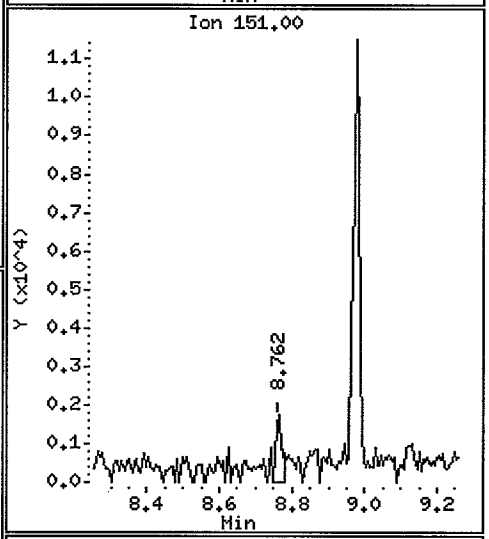
7 Acenaphthylene

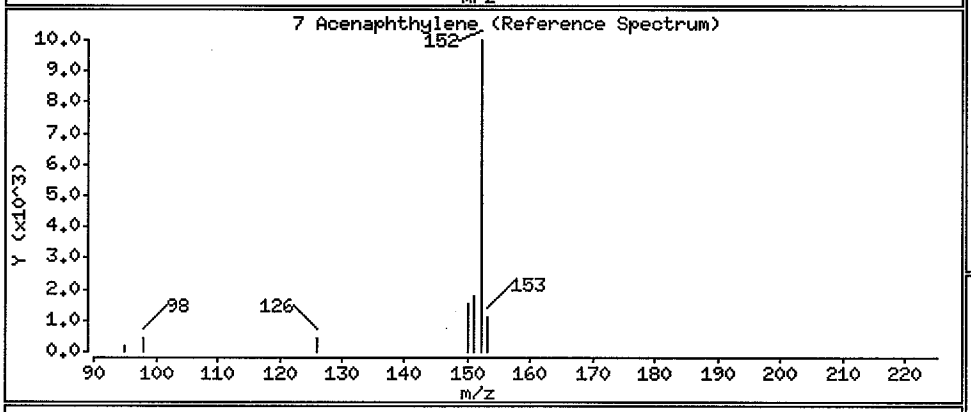
Concentration: 31.01 ug/kg

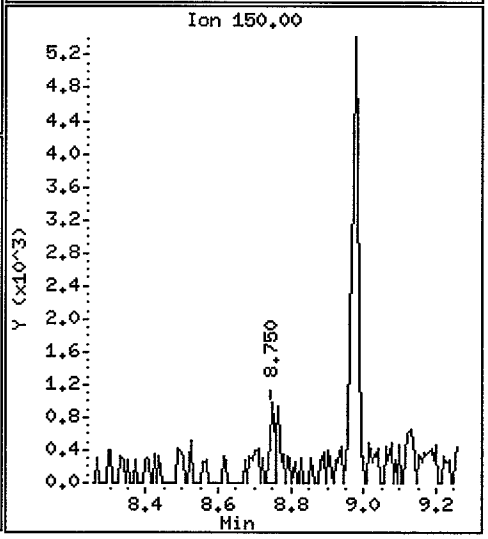


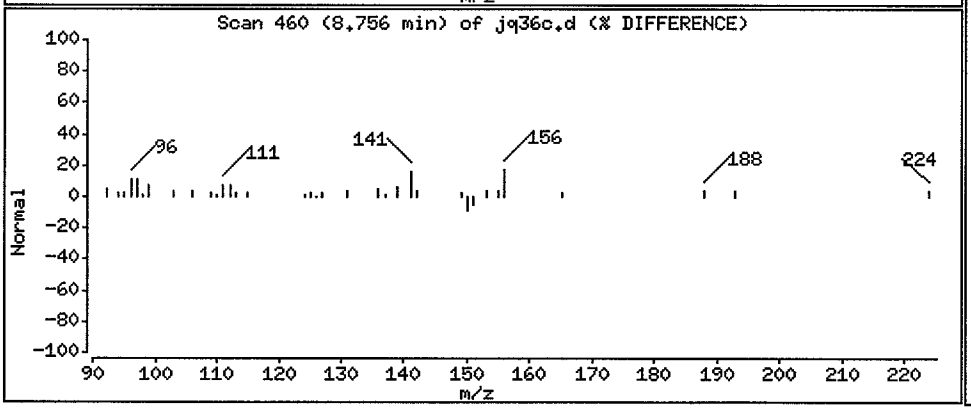












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

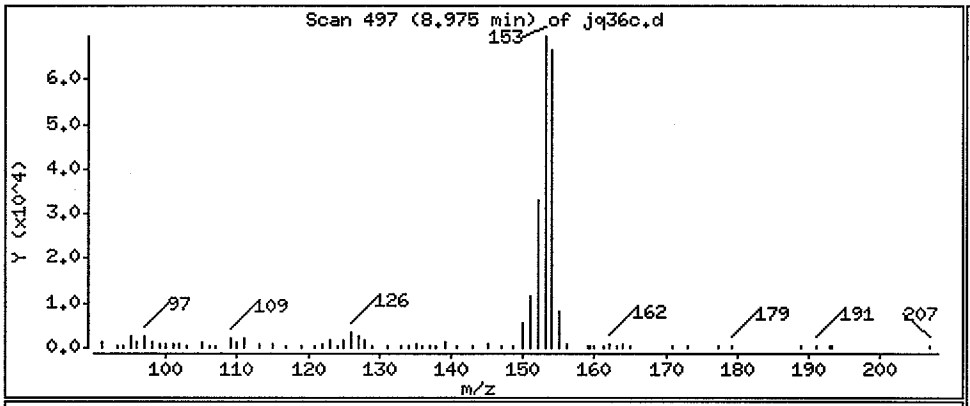
Operator: VTS

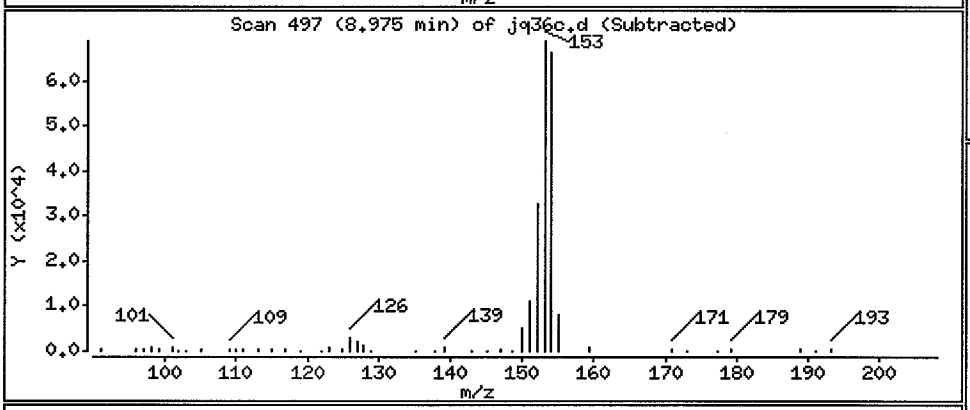
Column phase: ZB-5

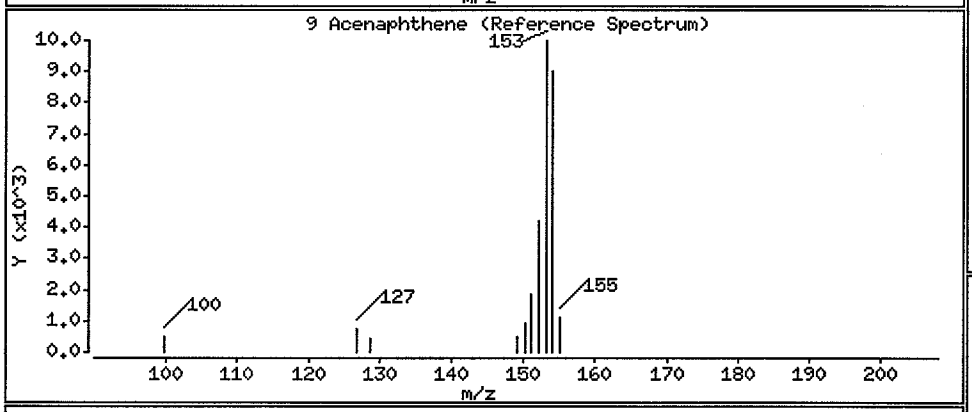
Column diameter: 0.25

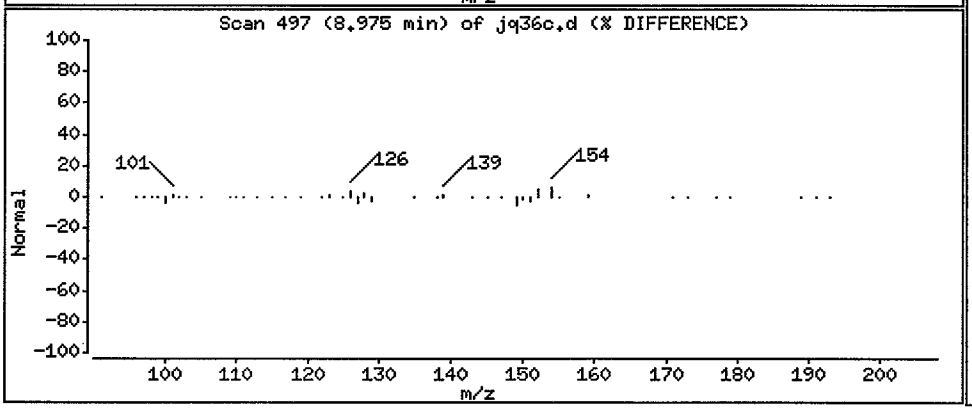
9 Acenaphthene

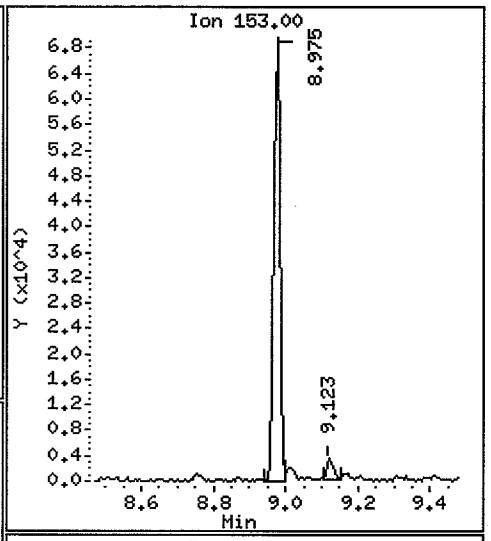
Concentration: 513.7 ug/kg

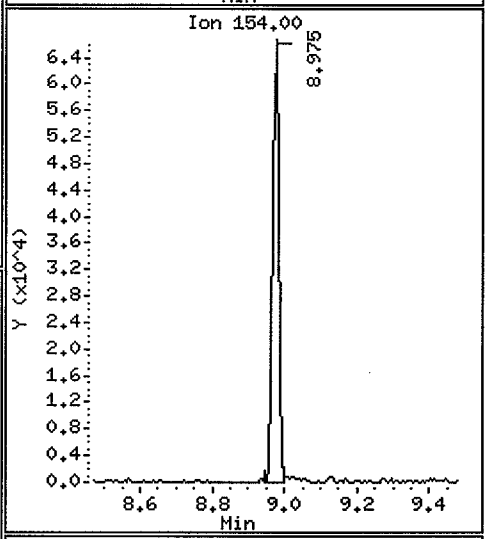


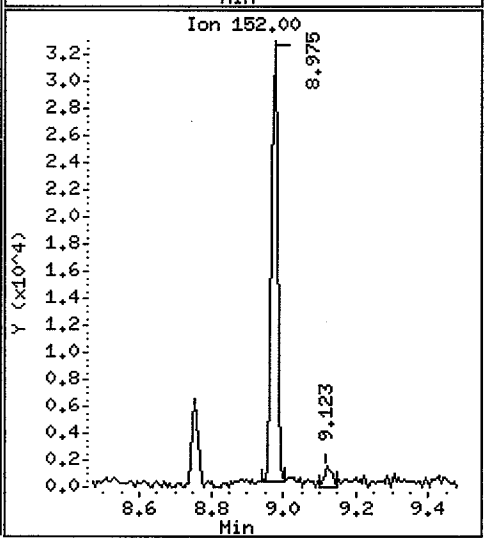












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

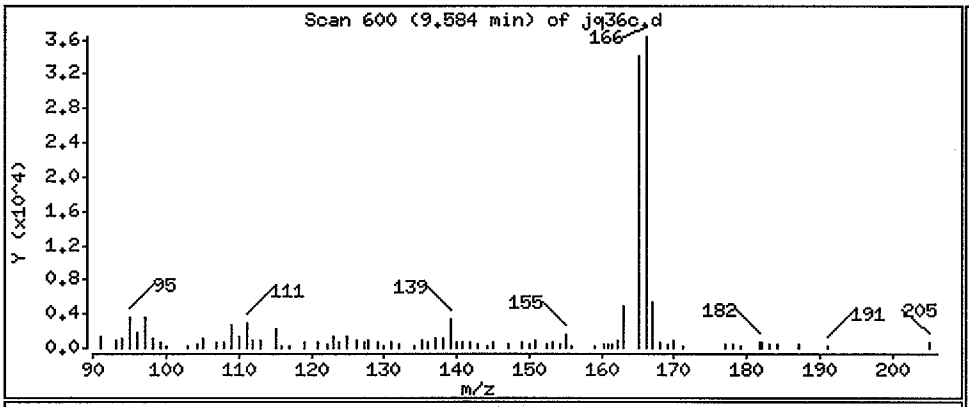
Operator: VTS

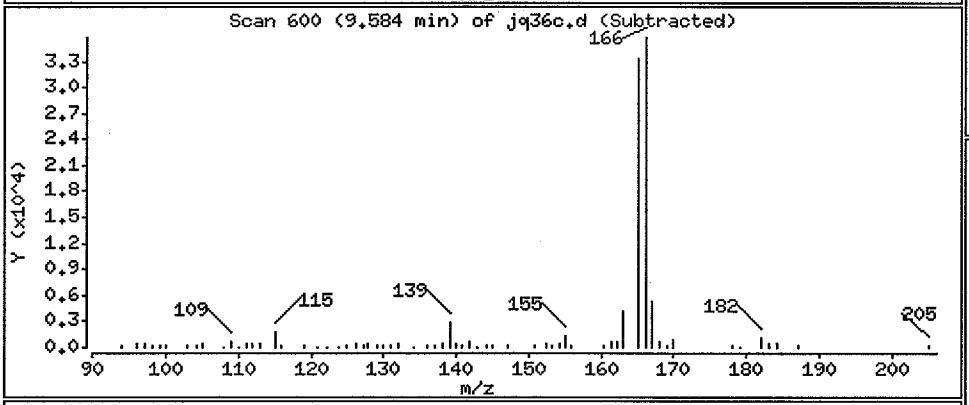
Column phase: ZB-5

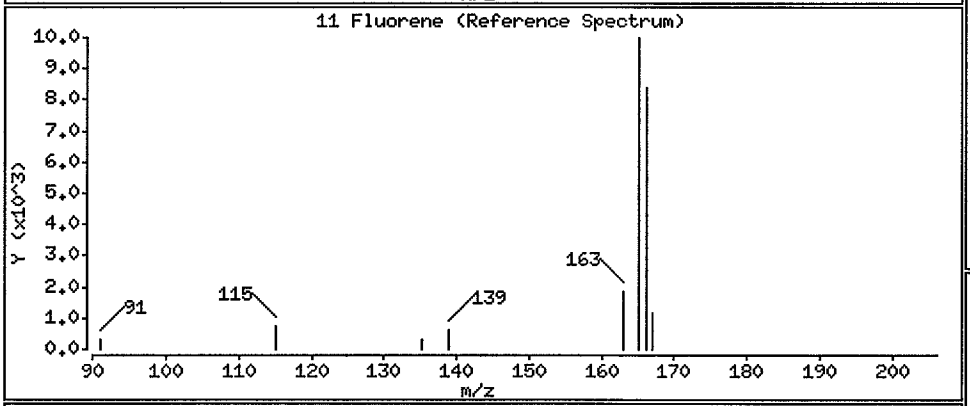
Column diameter: 0.25

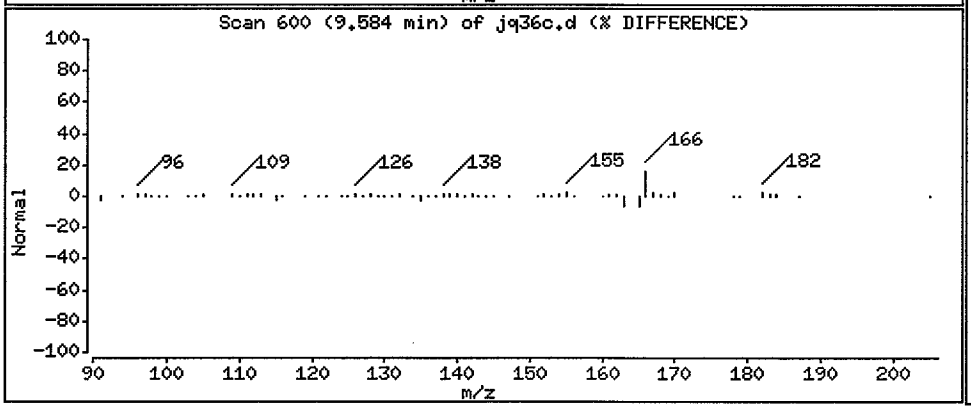
11 Fluorene

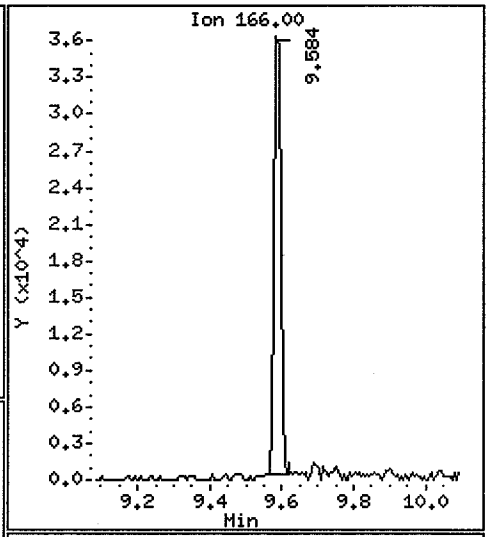
Concentration: 247.2 ug/kg

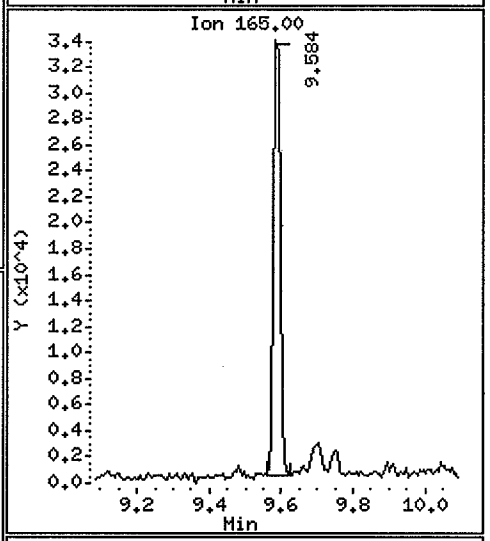


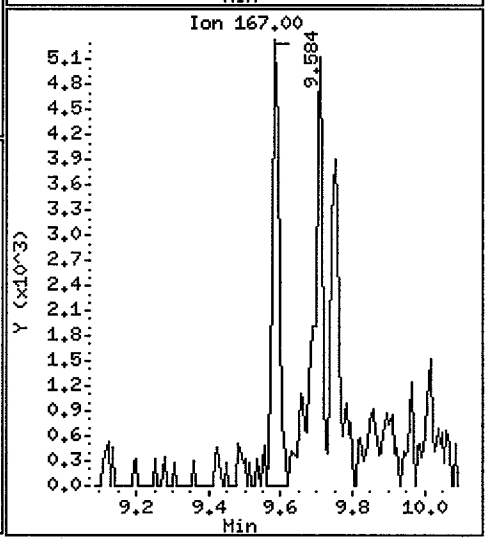












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

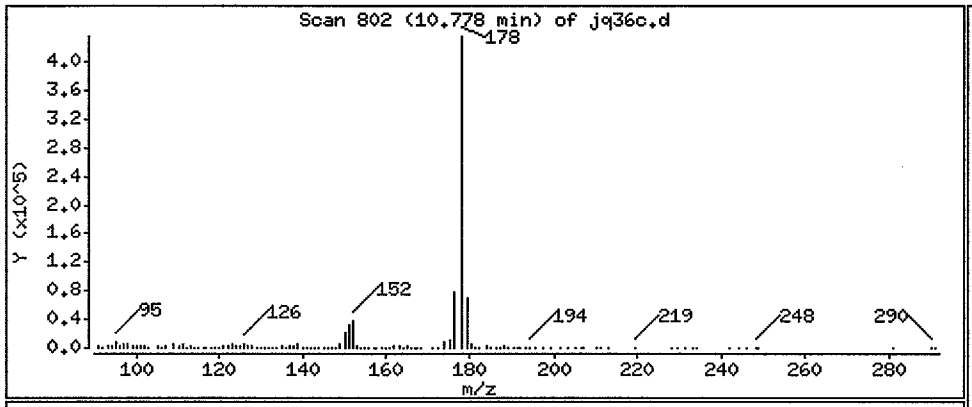
Operator: VTS

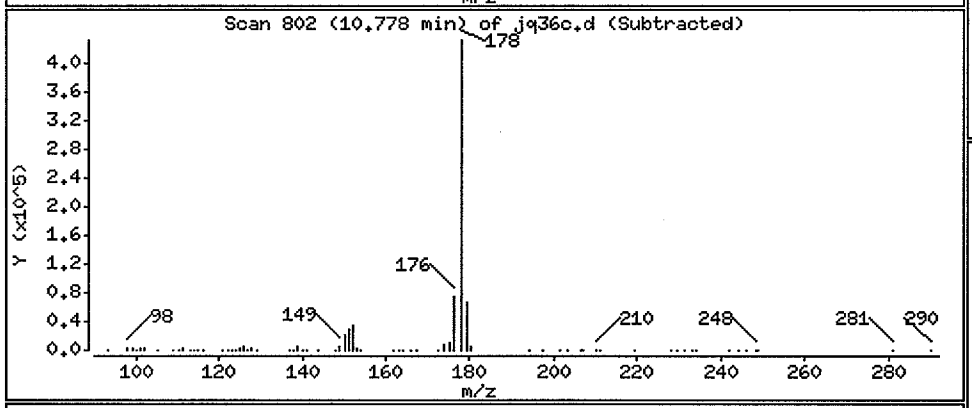
Column phase: ZB-5

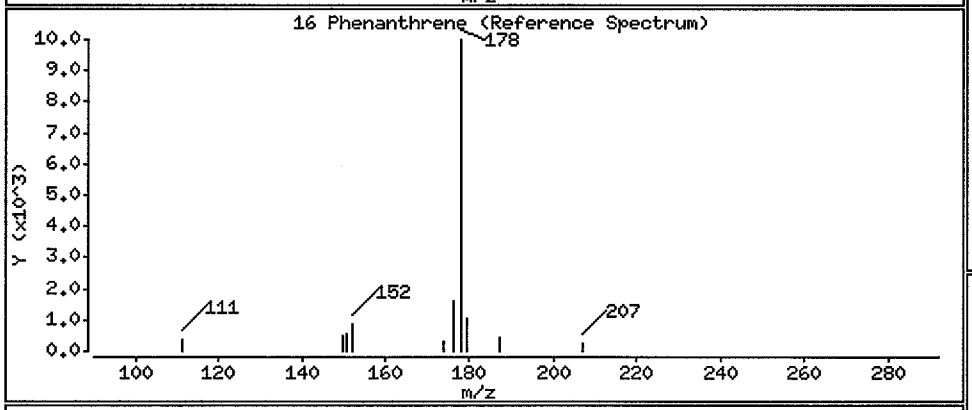
Column diameter: 0.25

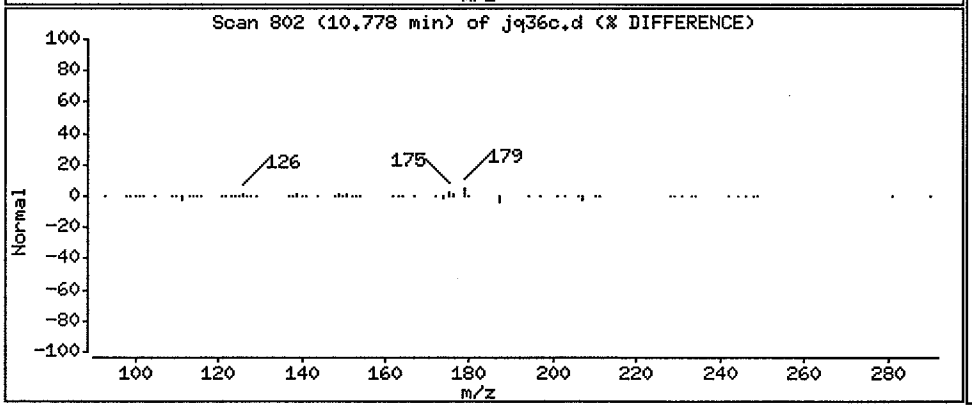
16 Phenanthrene

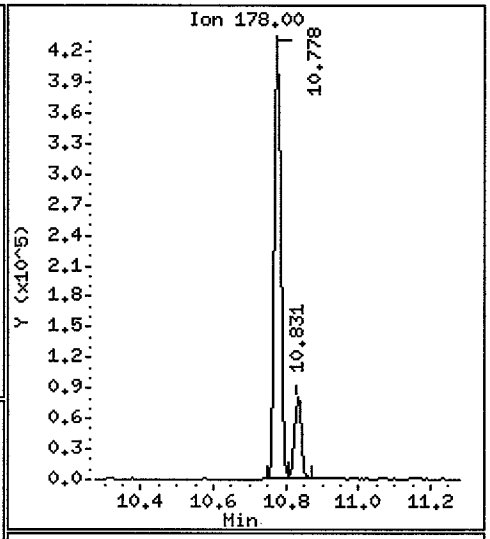
Concentration: 2053 ug/kg

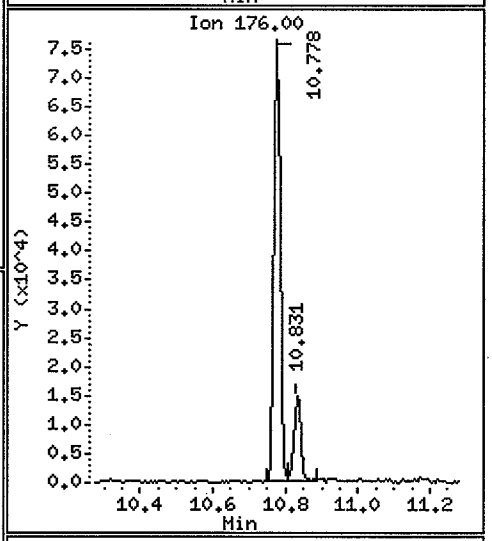


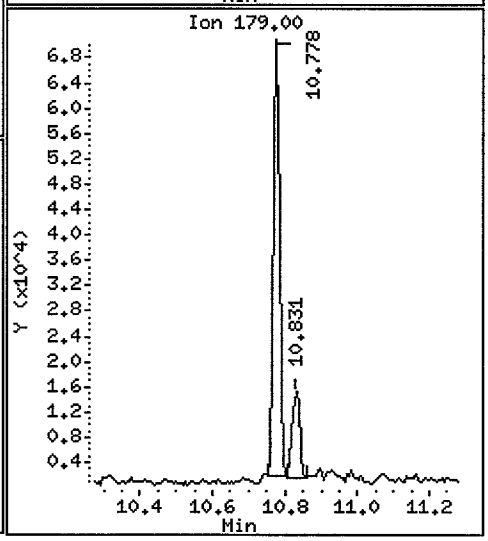












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

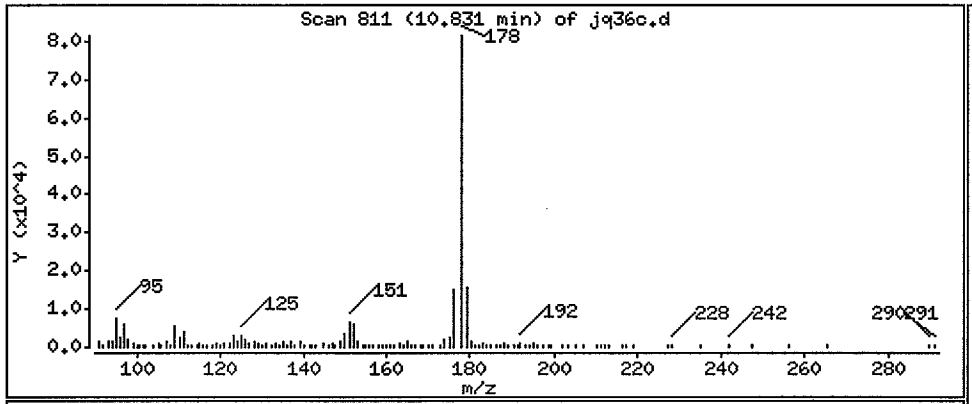
Operator: VTS

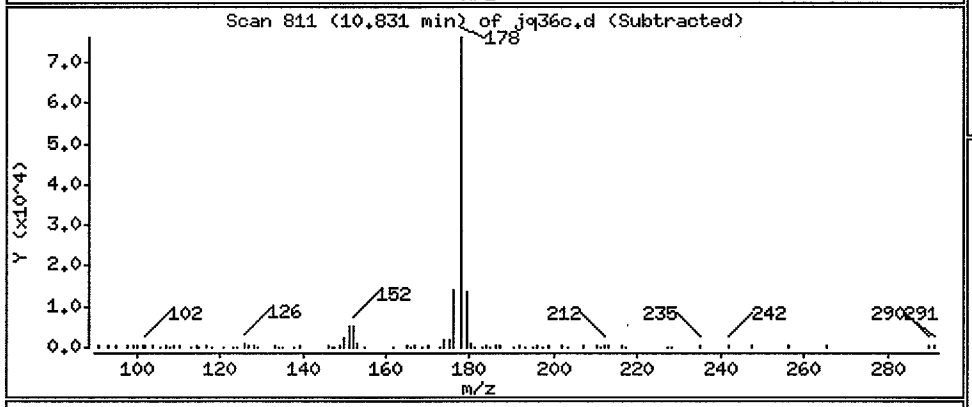
Column phase: ZB-5

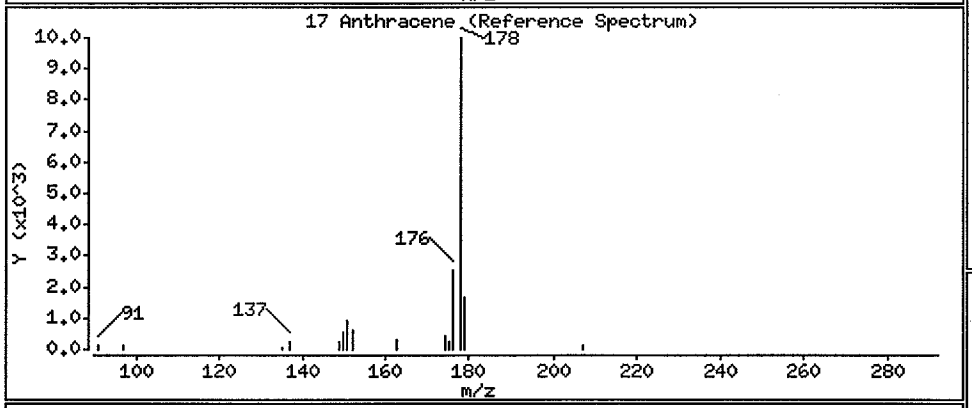
Column diameter: 0.25

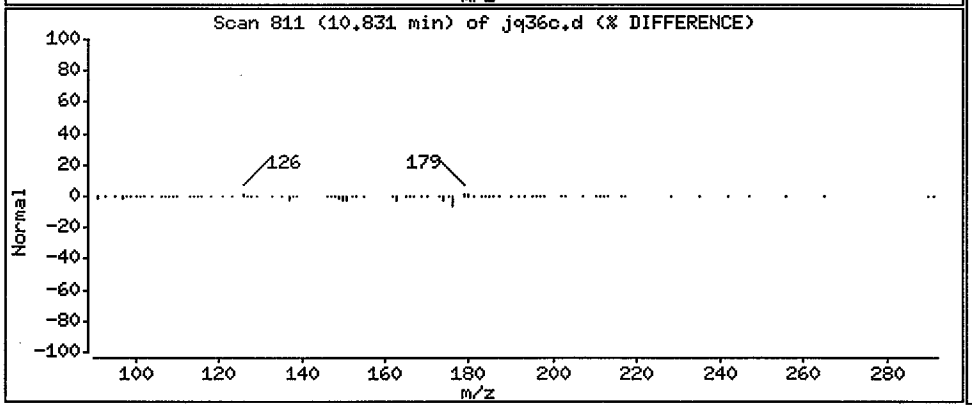
17 Anthracene

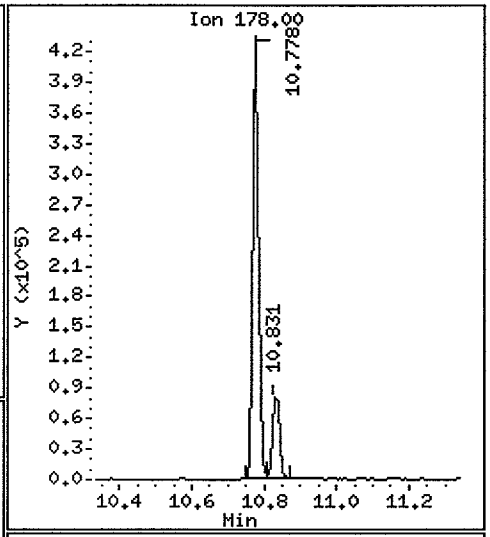
Concentration: 427.0 ug/kg

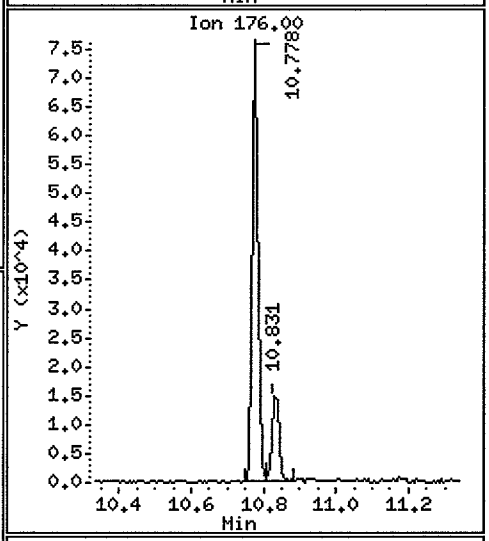


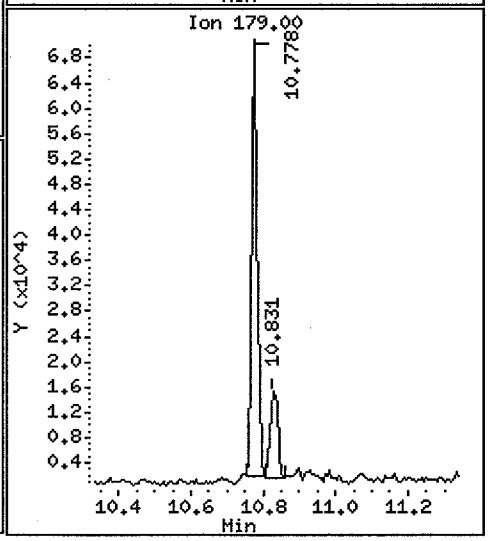












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

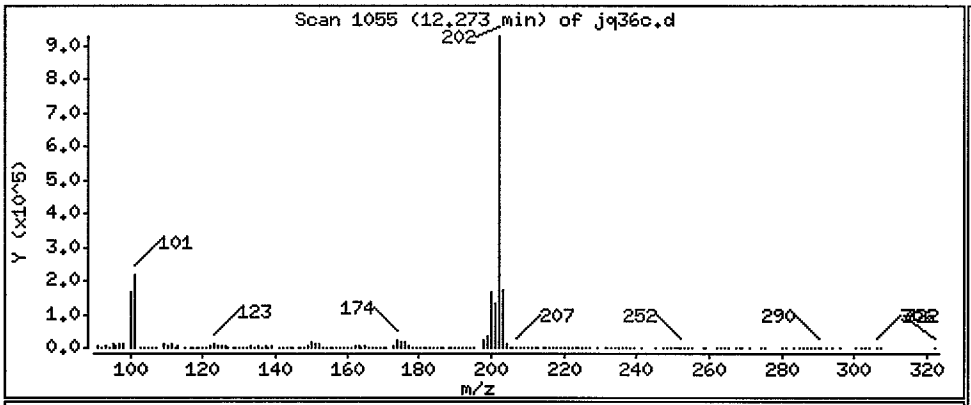
Operator: VTS

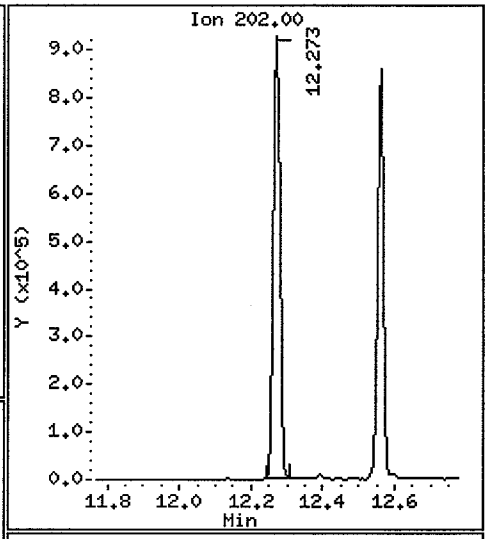
Column phase: ZB-5

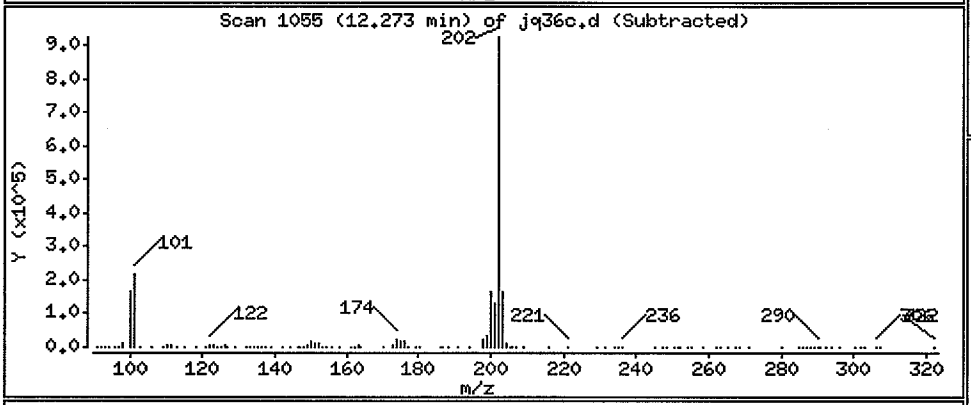
Column diameter: 0.25

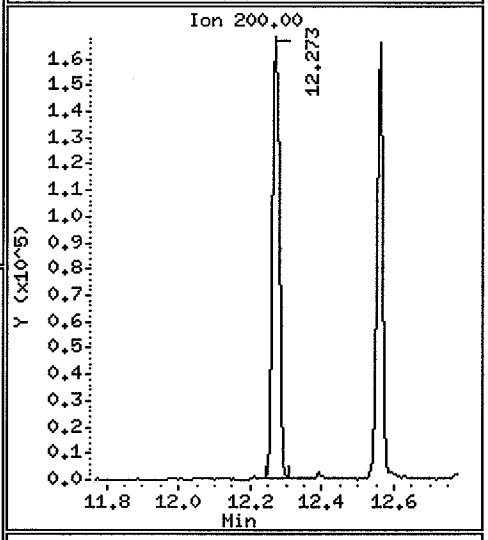
19 Fluoranthene

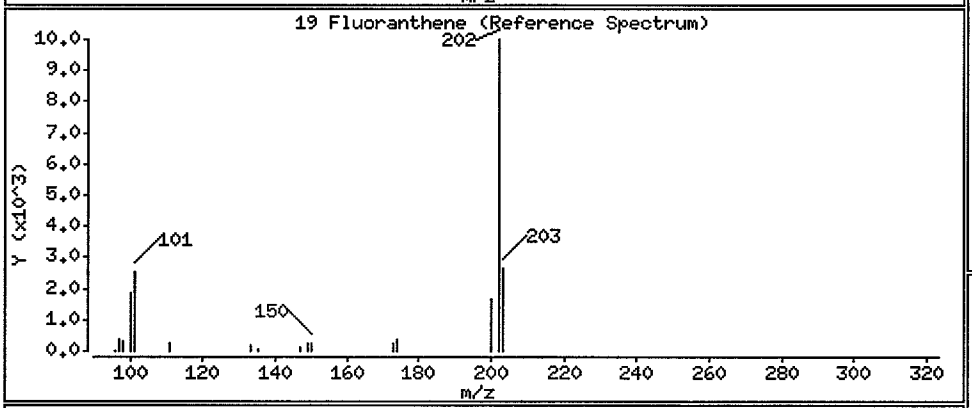
Concentration: 4531 ug/kg

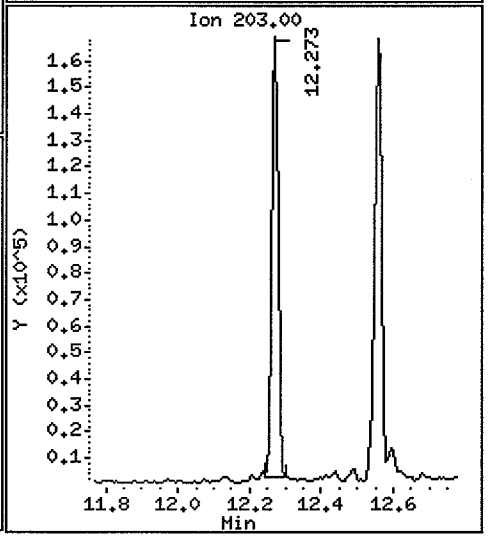


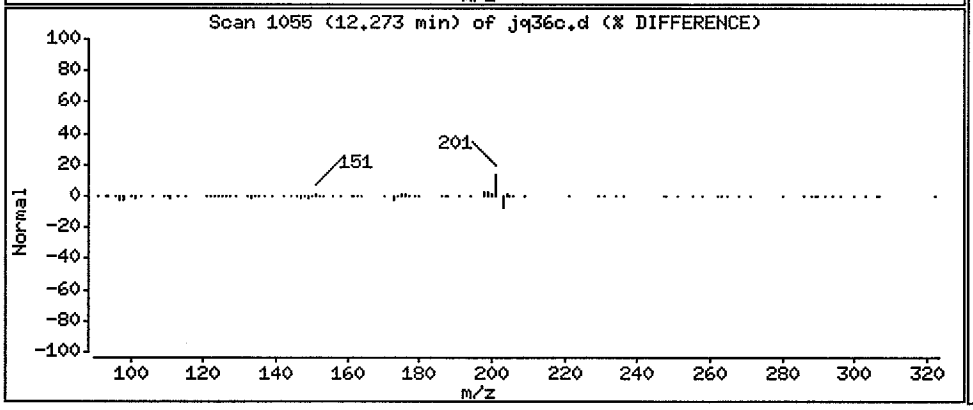












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

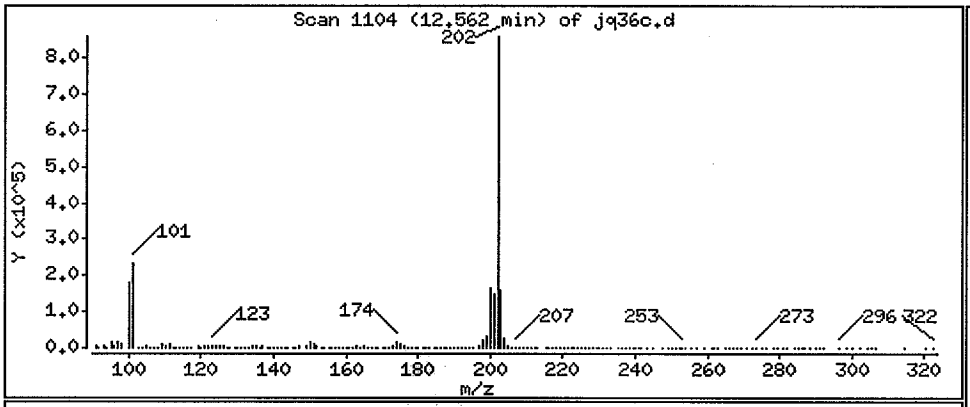
Operator: VTS

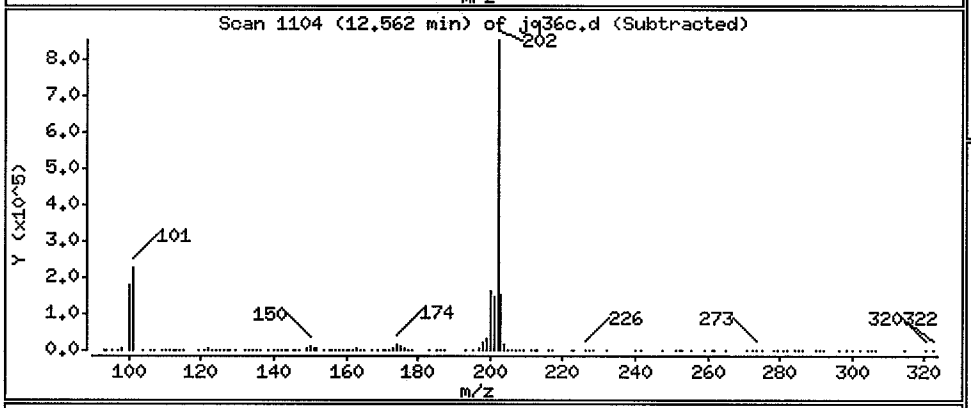
Column phase: ZB-5

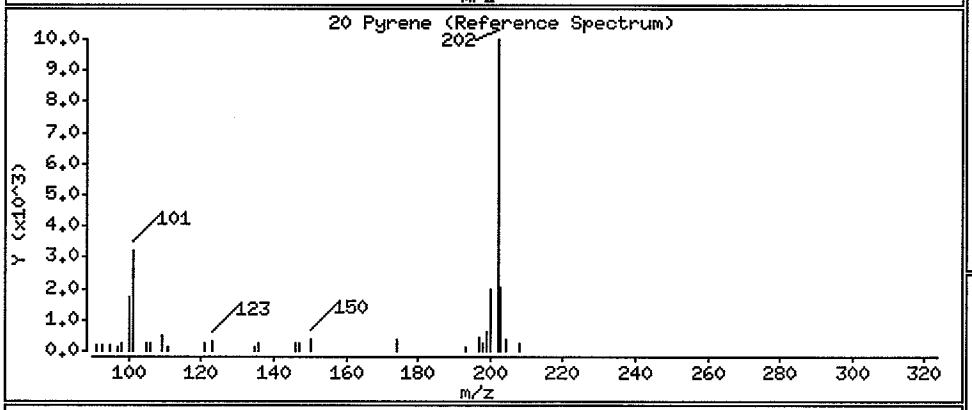
Column diameter: 0.25

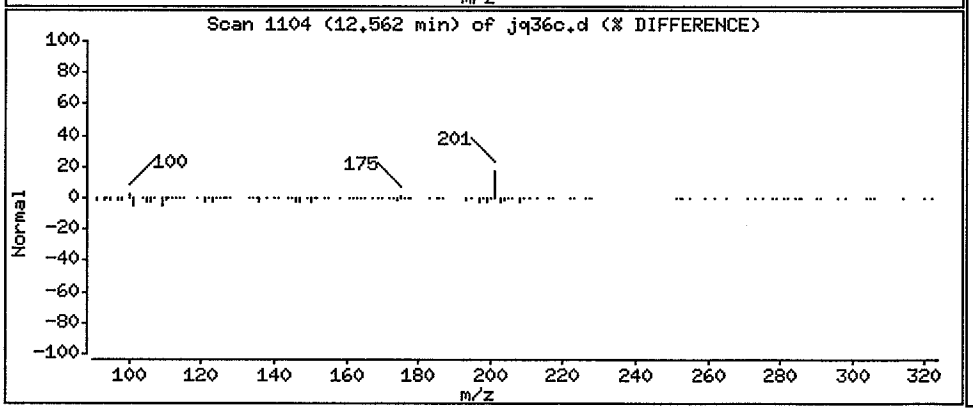
20 Pyrene

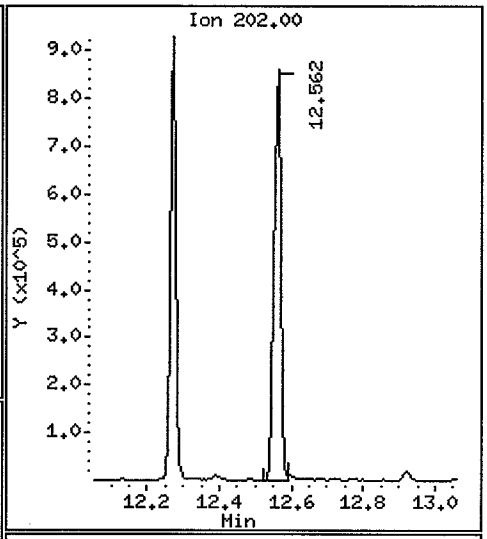
Concentration: 3836 ug/kg

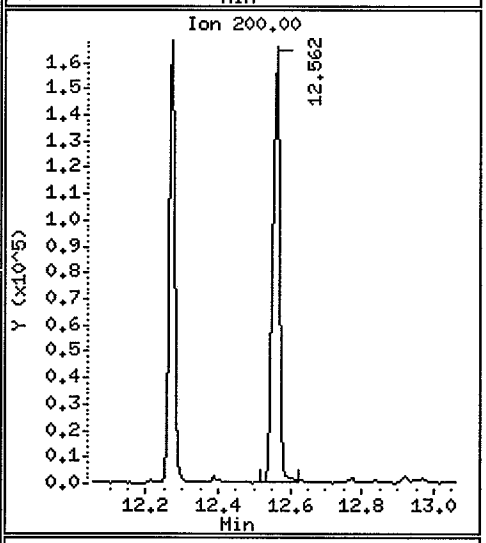


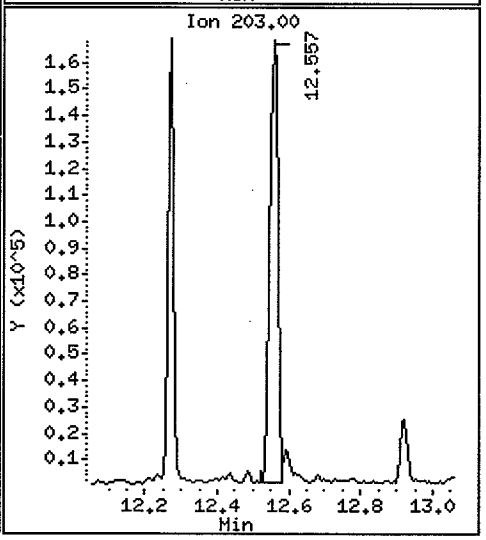












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

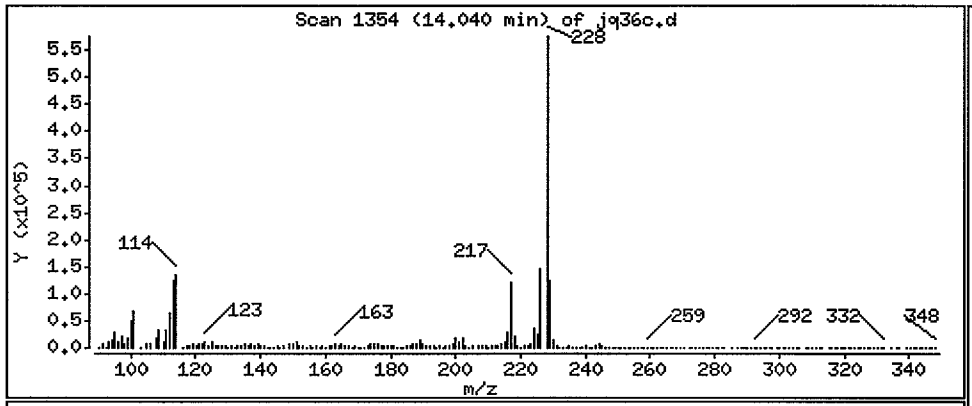
Operator: VTS

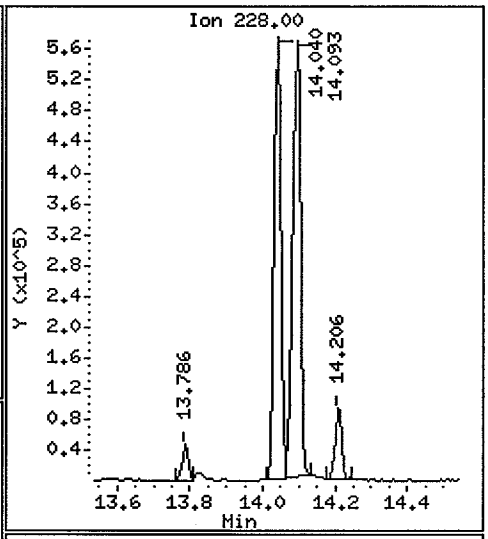
Column phase: ZB-5

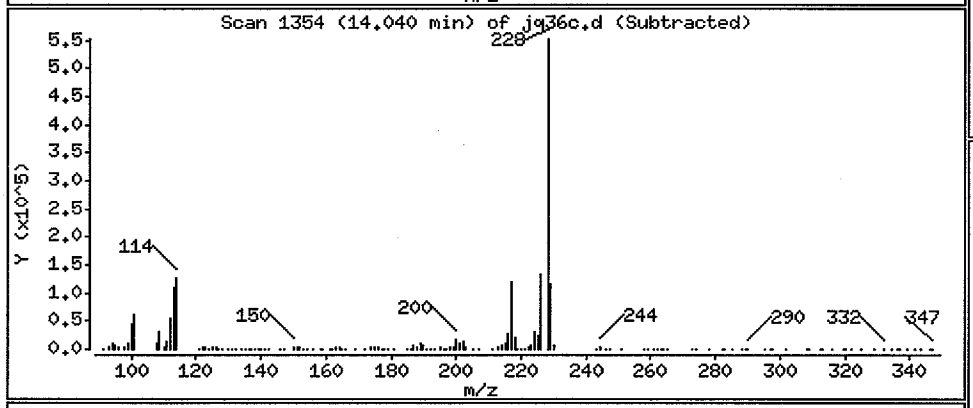
Column diameter: 0.25

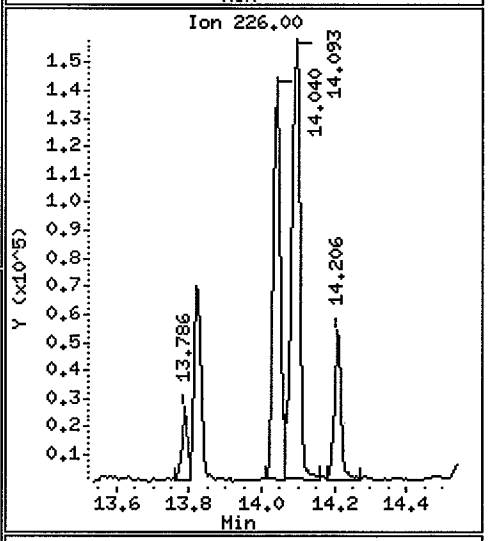
22 Benzo(a)anthracene

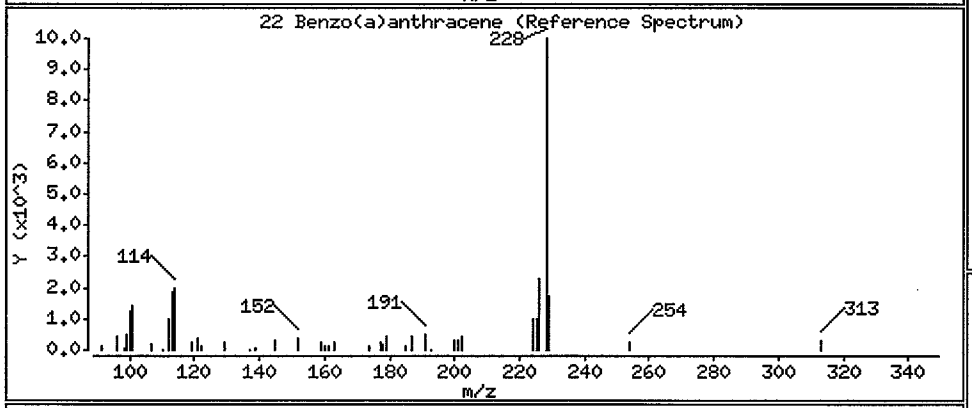
Concentration: 2602 ug/kg

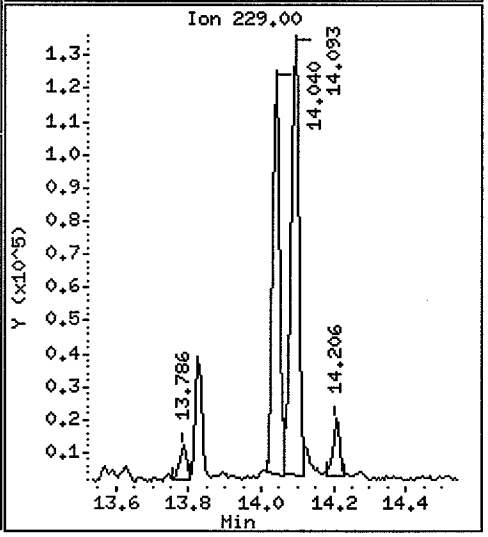


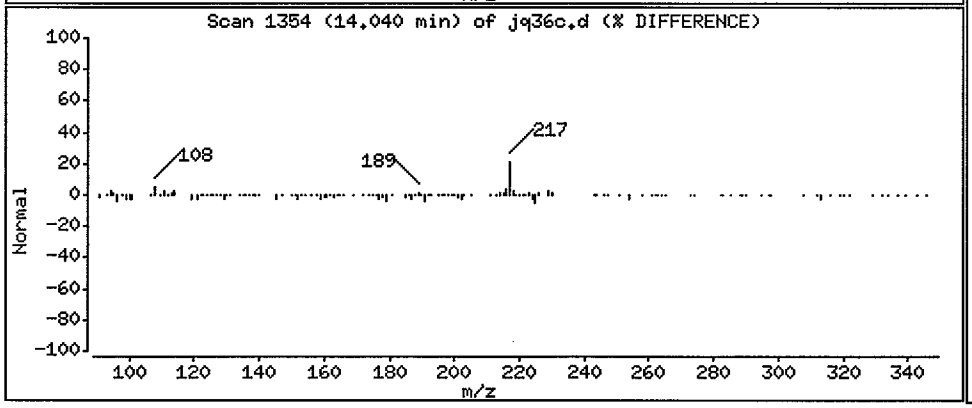












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

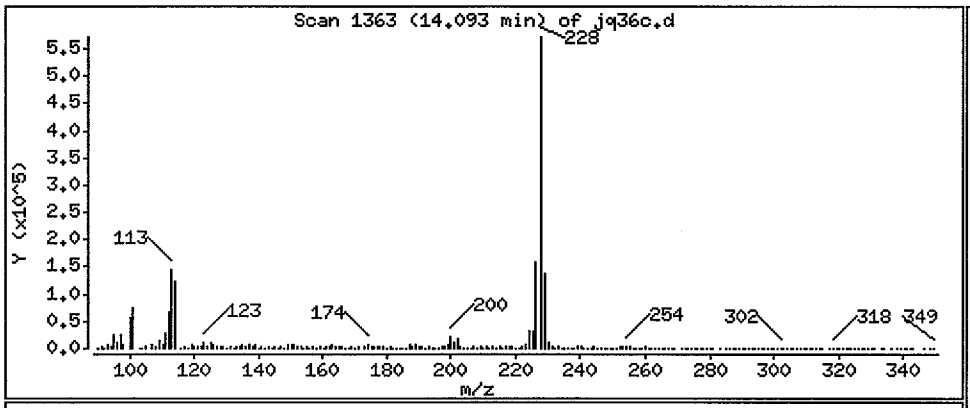
Operator: VTS

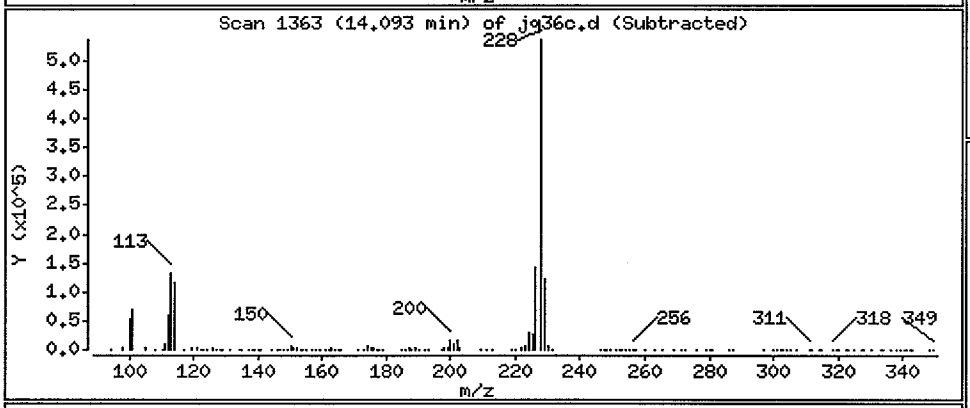
Column phase: ZB-5

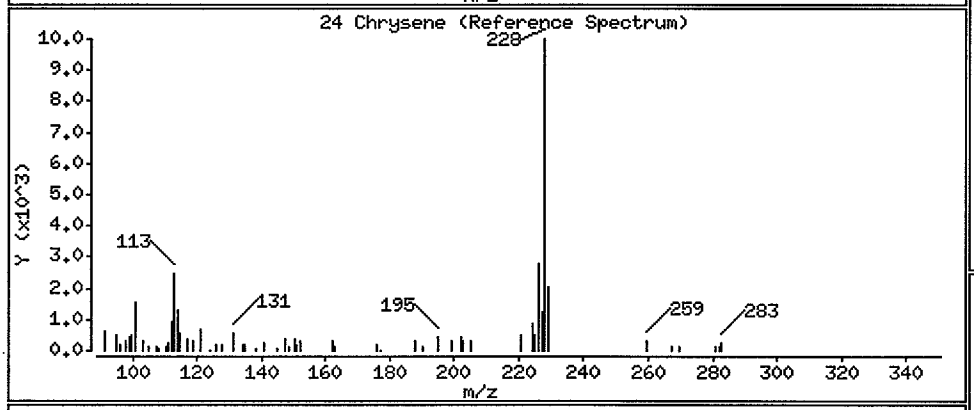
Column diameter: 0.25

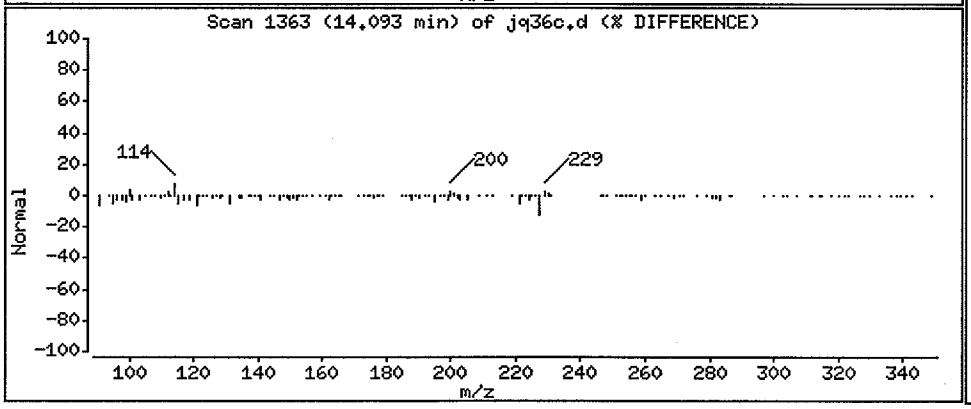
24 Chrysene

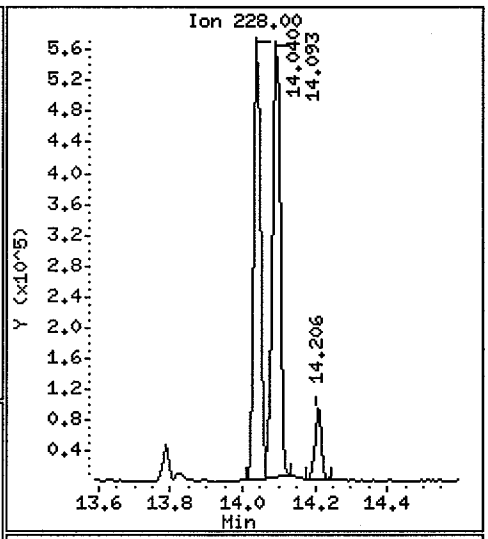
Concentration: 3243 ug/kg

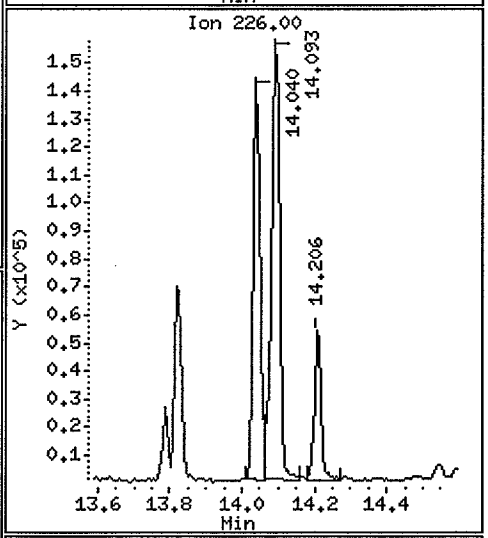


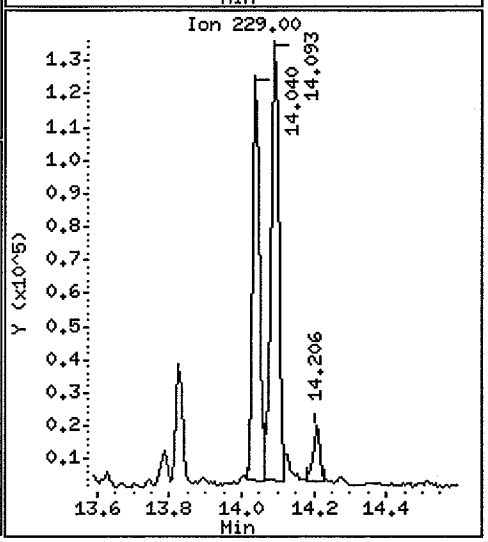












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

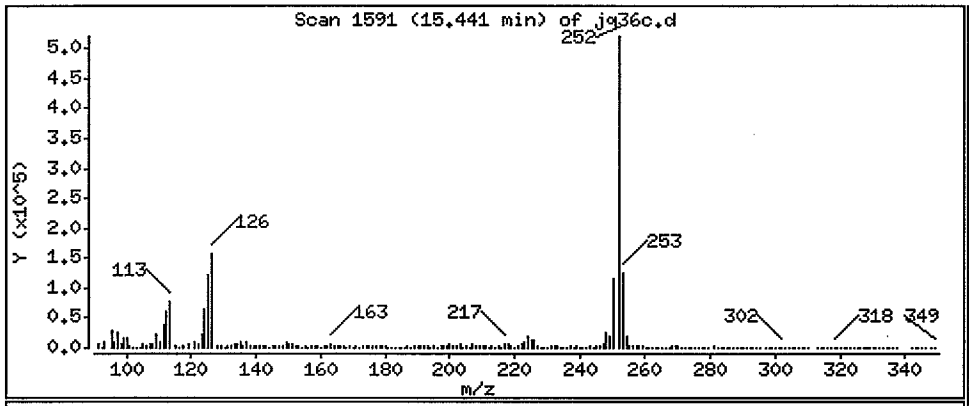
Operator: VTS

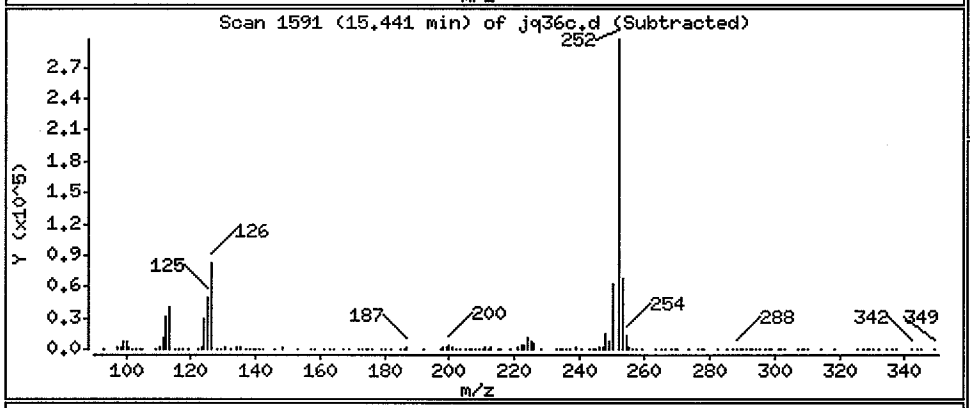
Column phase: ZB-5

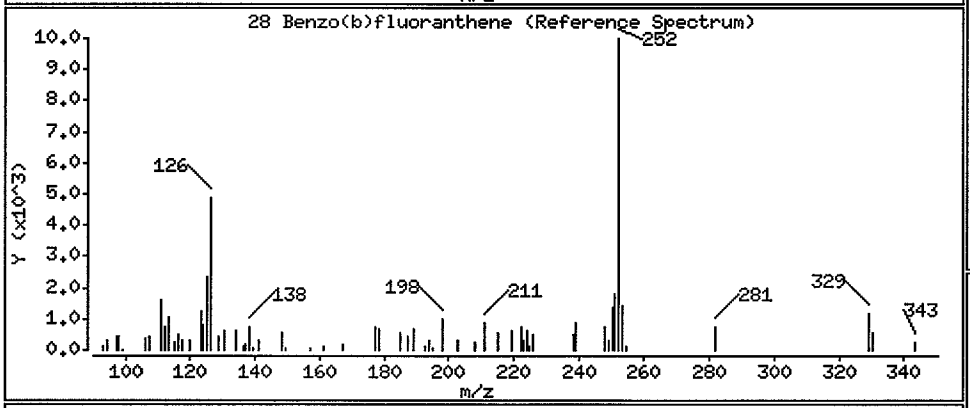
Column diameter: 0.25

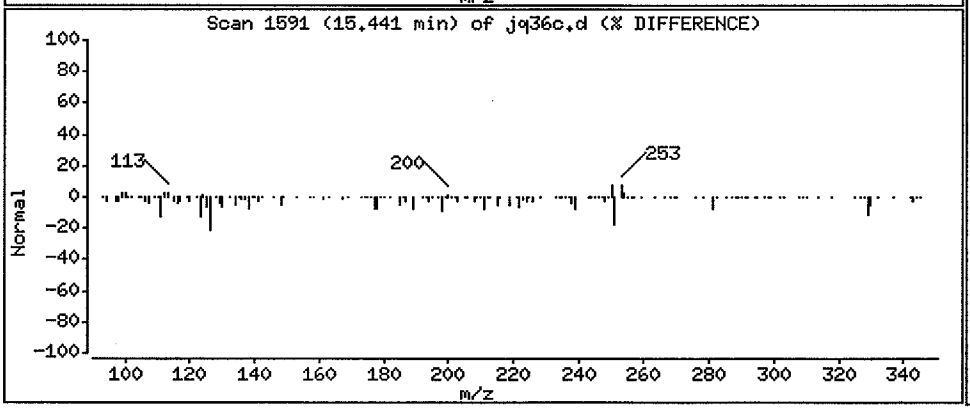
28 Benzo(b)fluoranthene

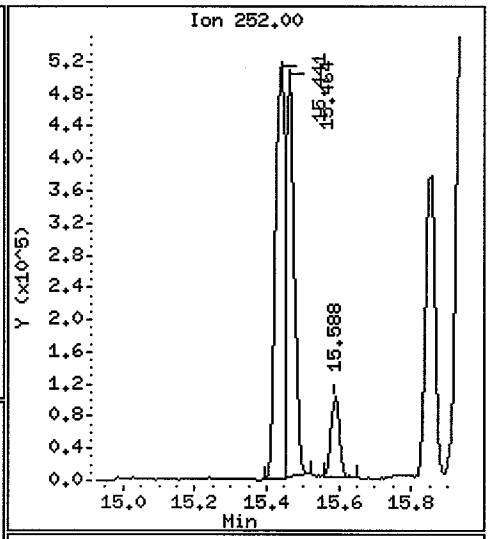
Concentration: 3416 ug/kg

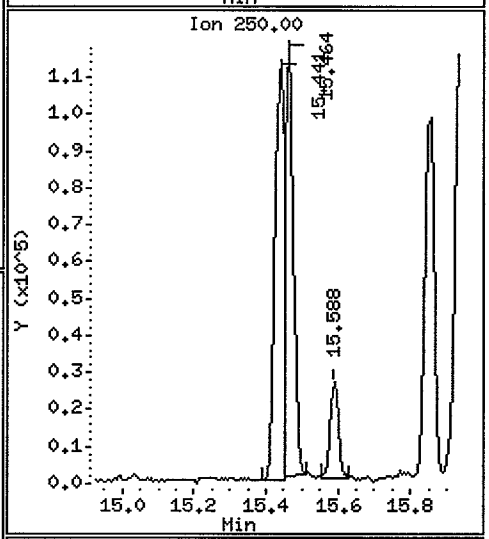


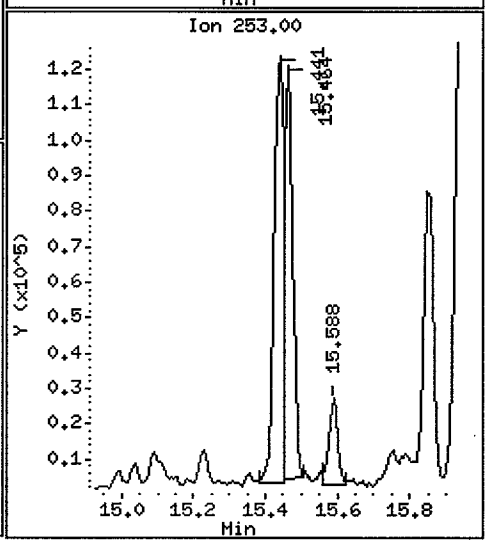












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

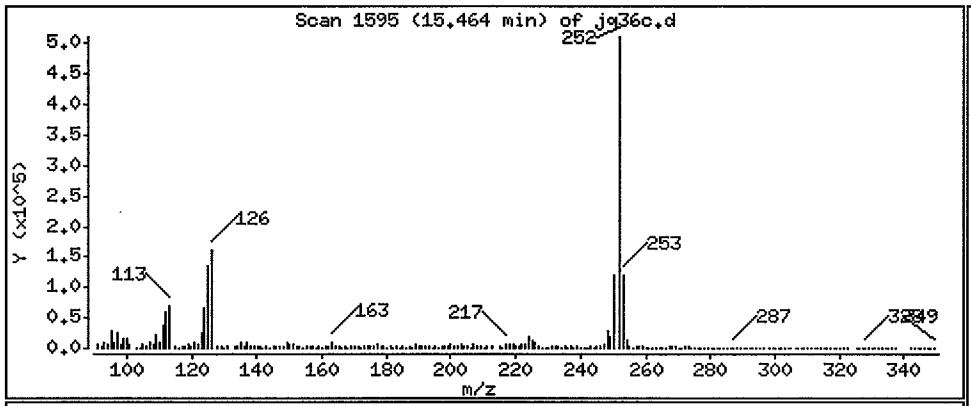
Operator: VTS

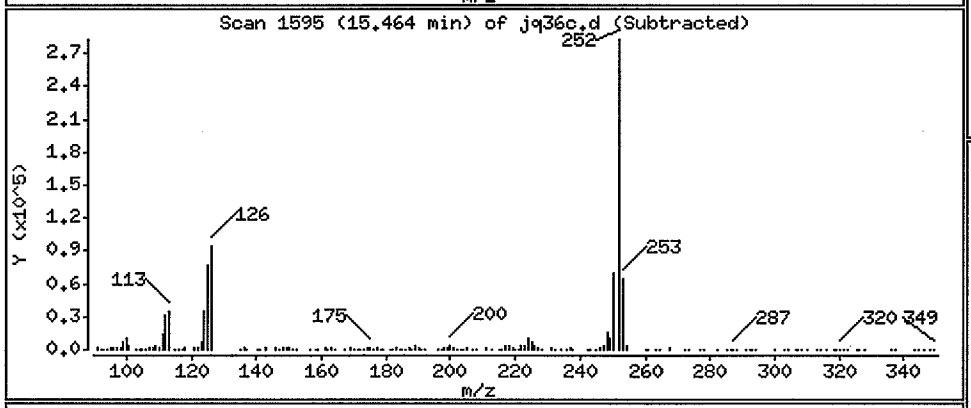
Column phase: ZB-5

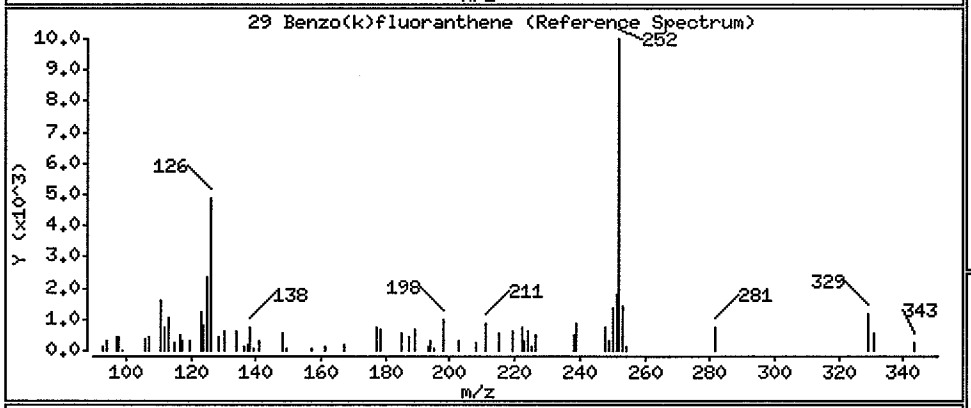
Column diameter: 0.25

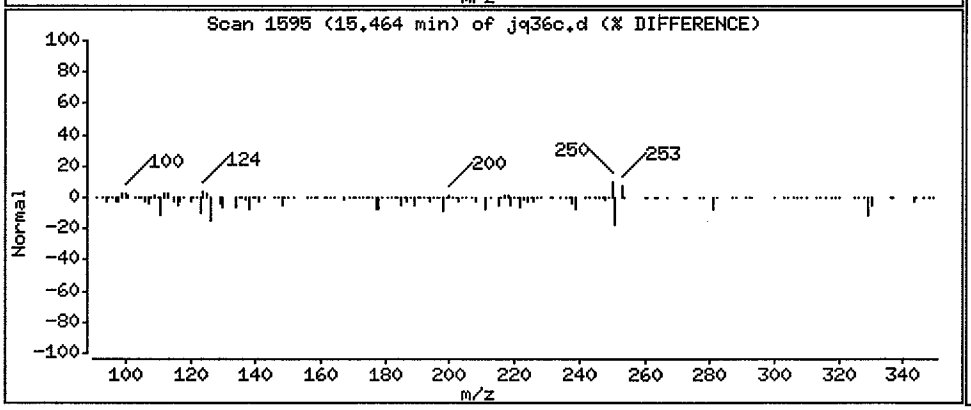
29 Benzo(k)fluoranthene

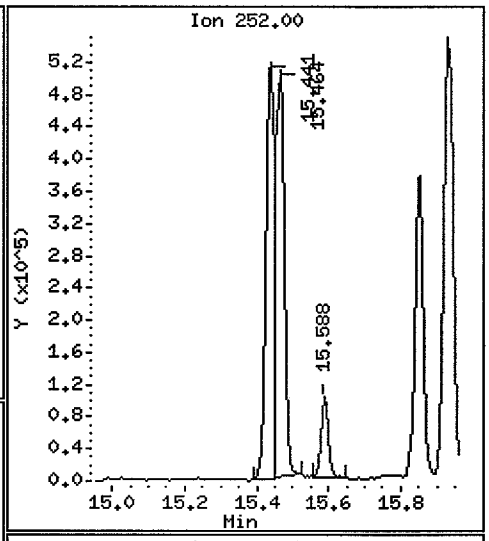
Concentration: 2804 ug/kg

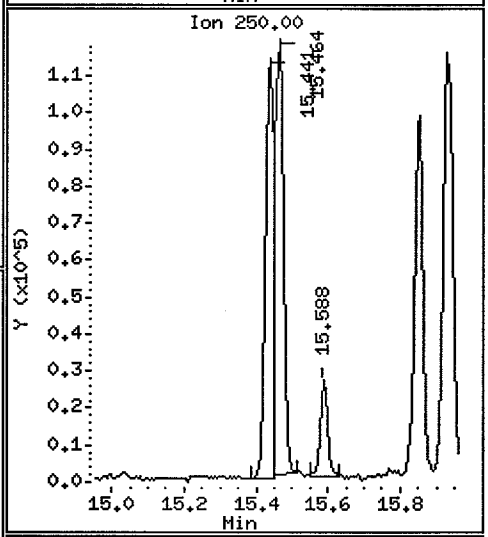


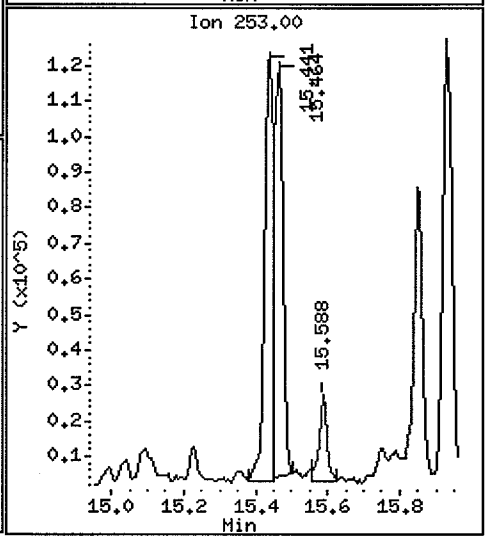












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

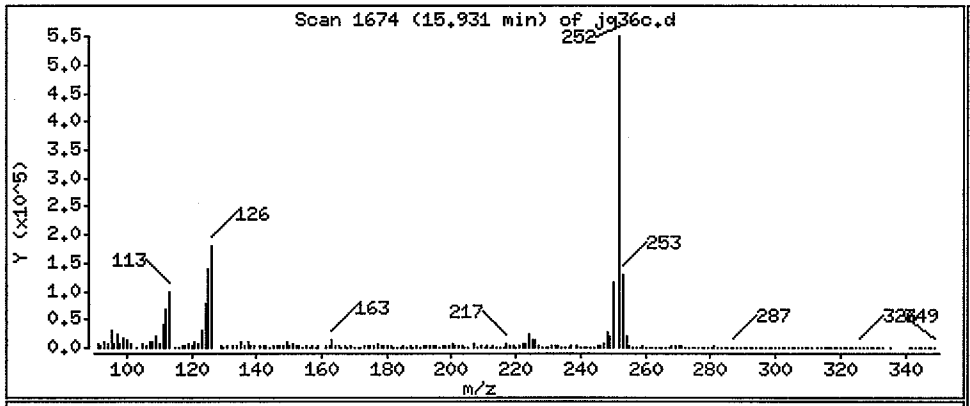
Operator: VTS

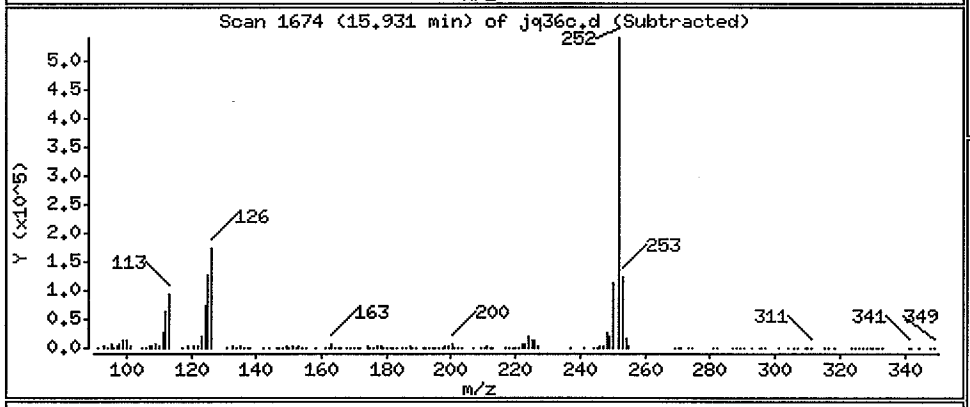
Column phase: ZB-5

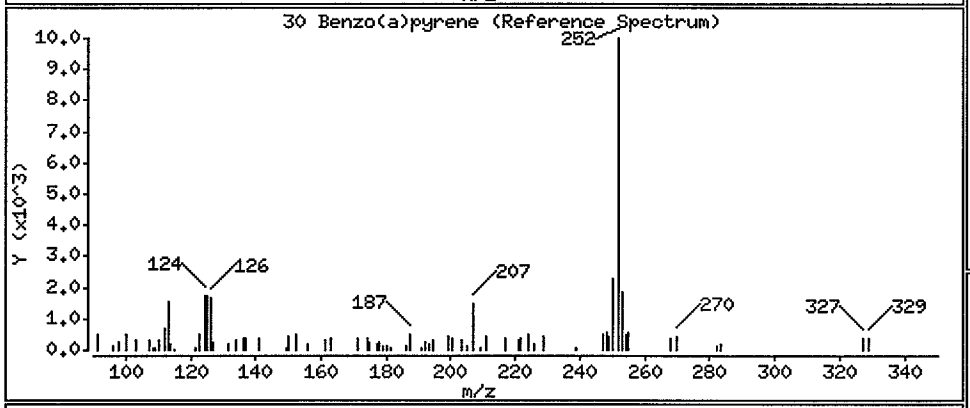
Column diameter: 0.25

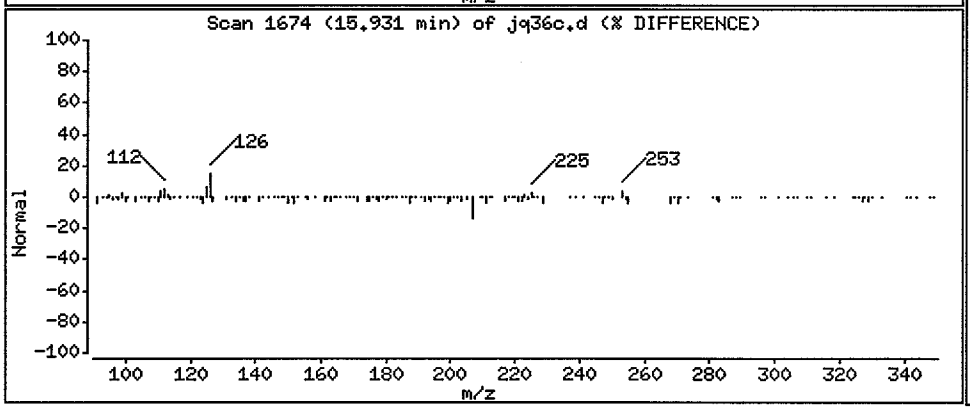
30 Benzo(a)pyrene

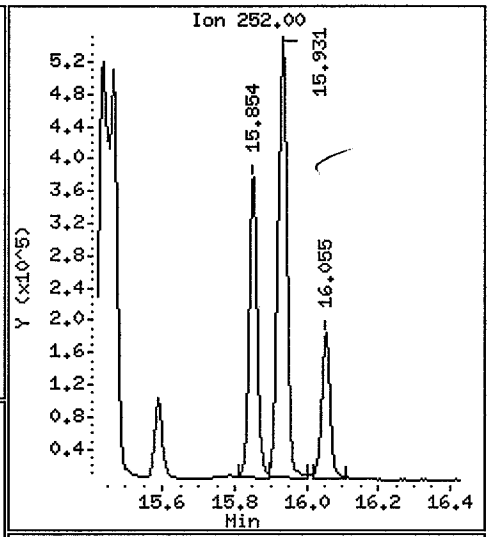
Concentration: 3444 ug/kg

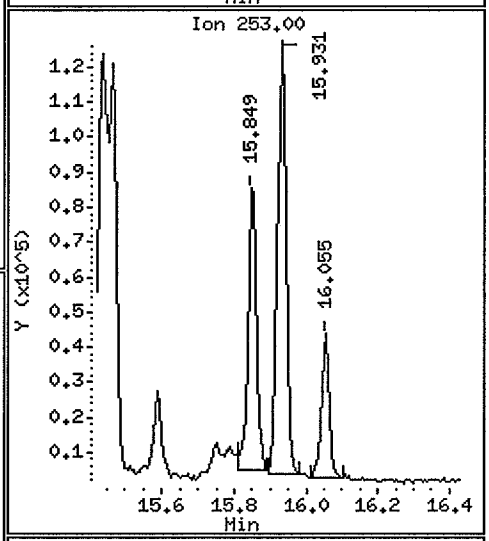


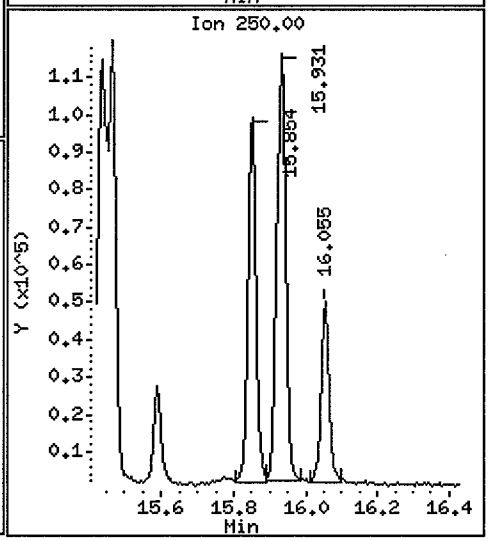












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

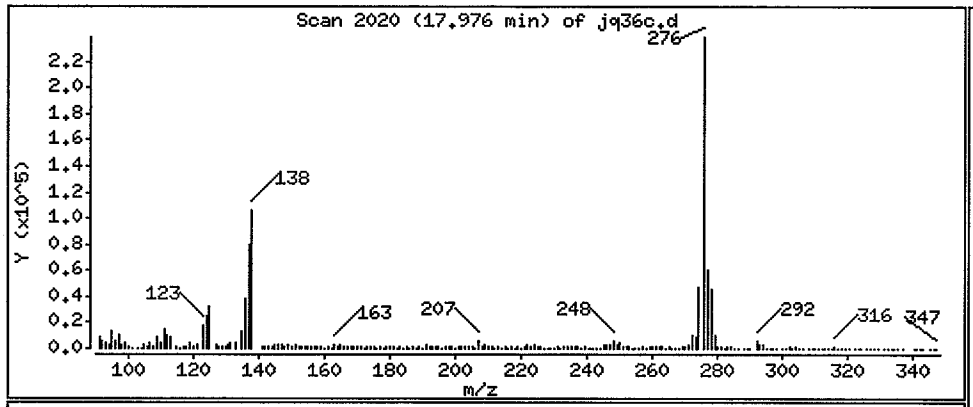
Operator: VTS

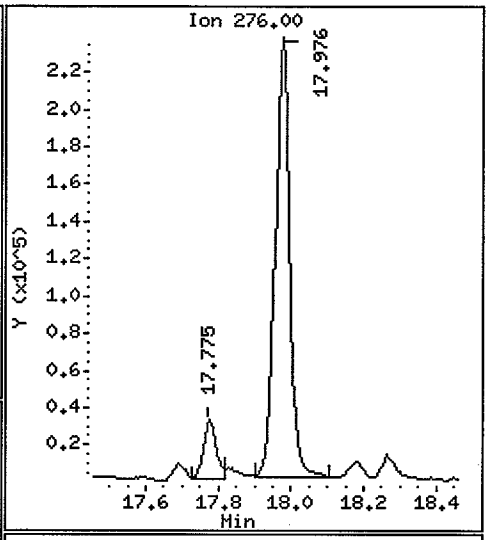
Column phase: ZB-5

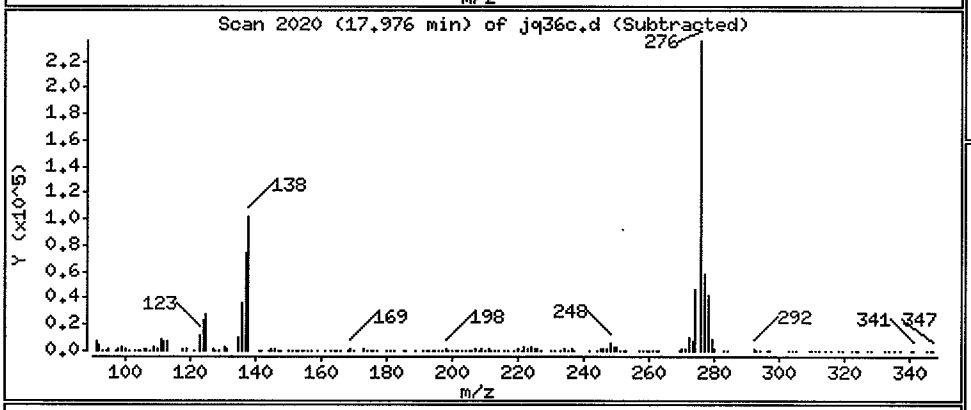
Column diameter: 0.25

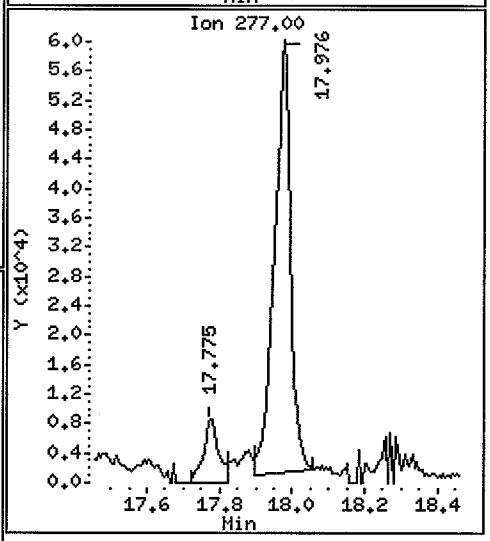
33 Indeno(1,2,3-cd)pyrene

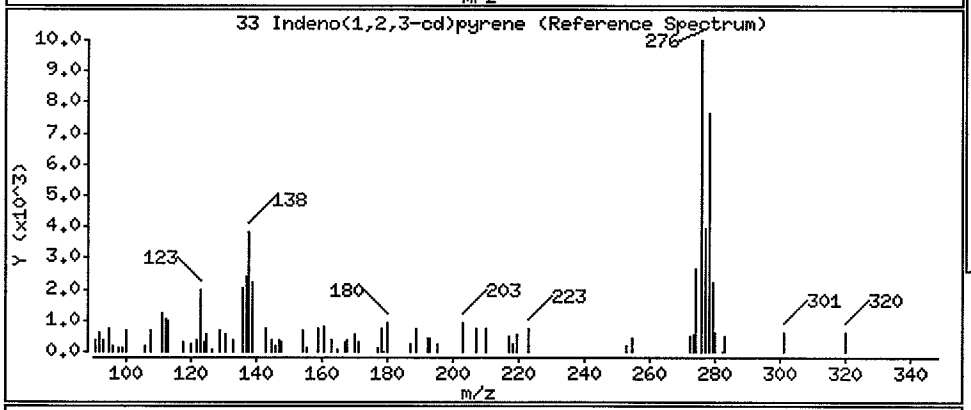
Concentration: 2127 ug/kg

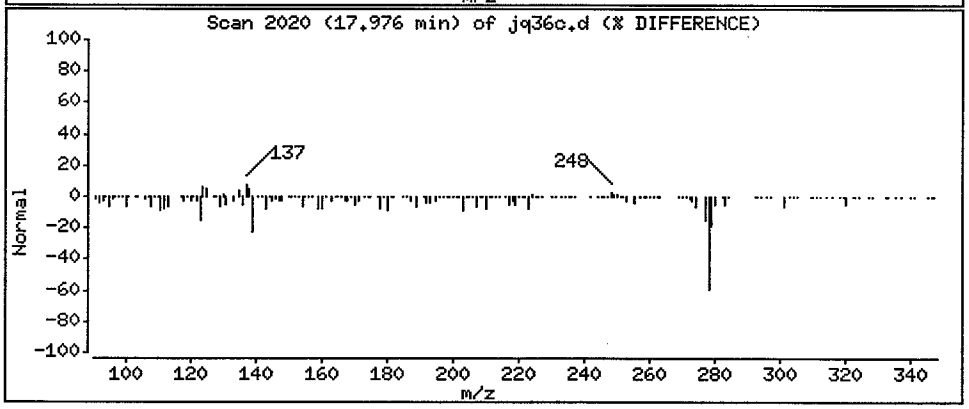












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

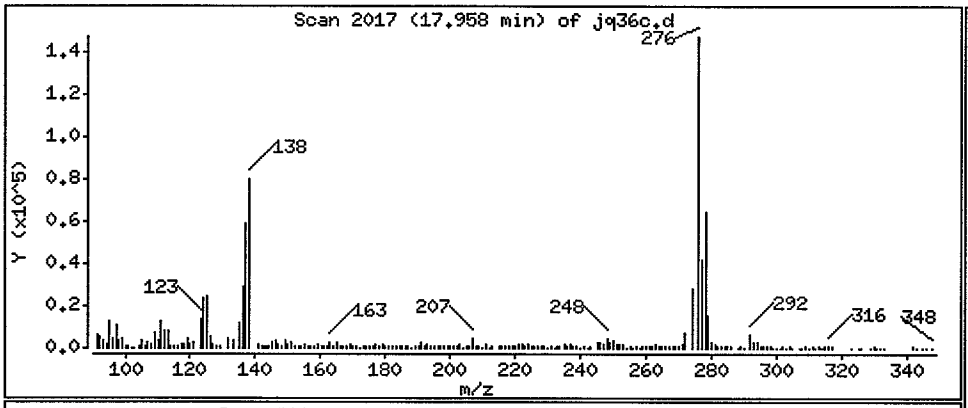
Operator: VTS

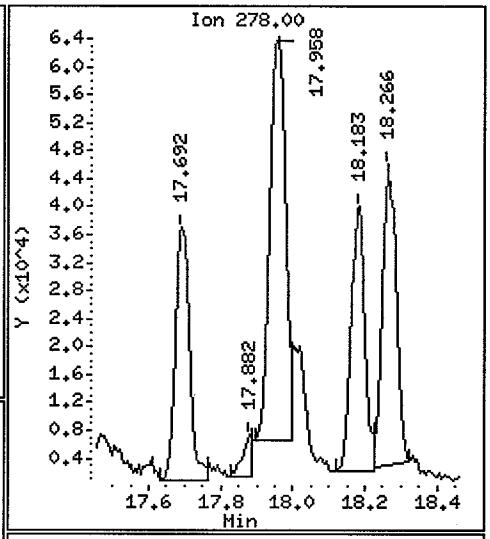
Column phase: ZB-5

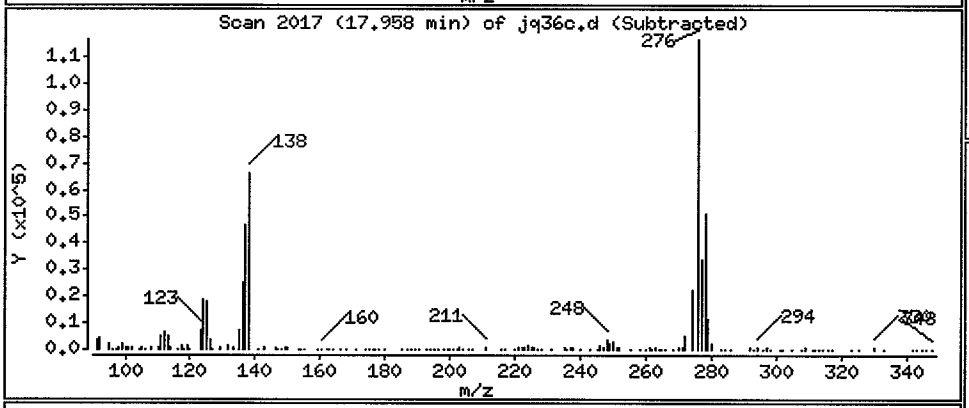
Column diameter: 0.25

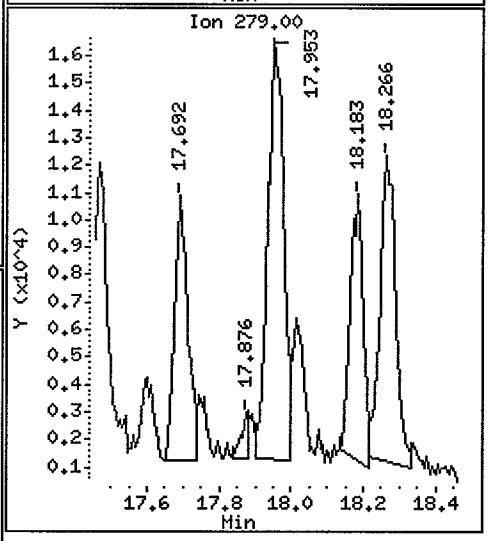
34 Dibenz(a,h)anthracene

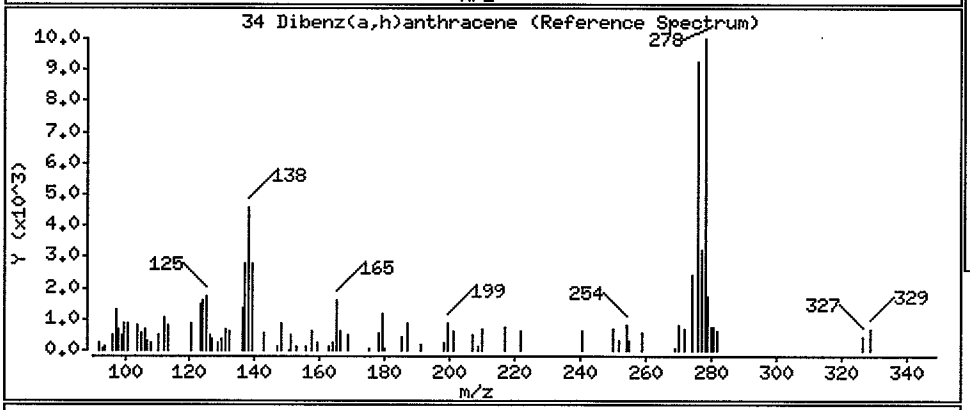
Concentration: 701.9 ug/kg

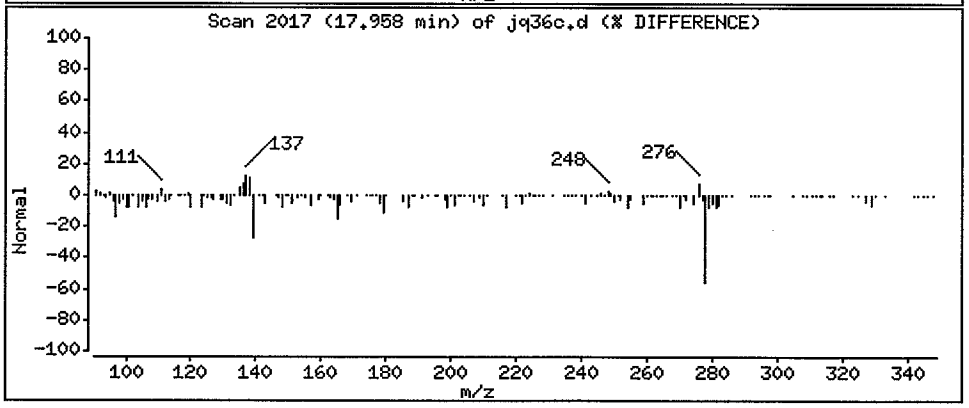












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

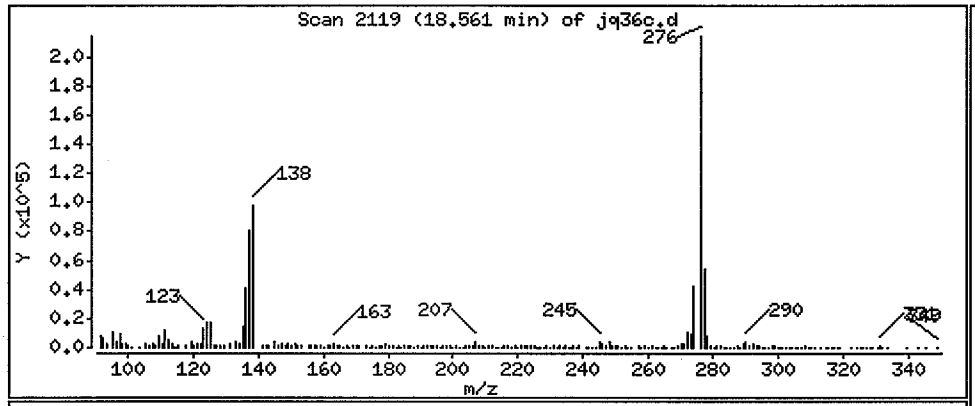
Operator: VTS

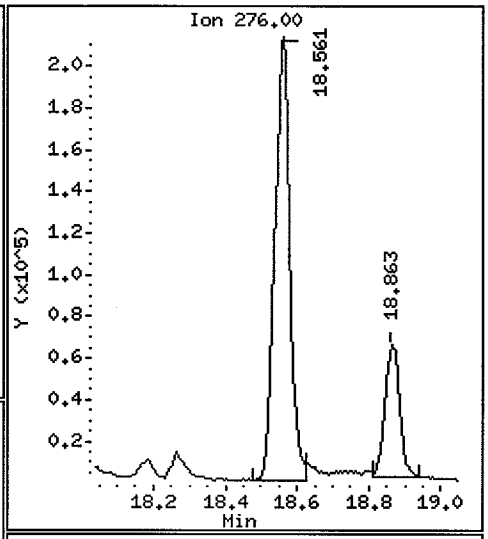
Column phase: ZB-5

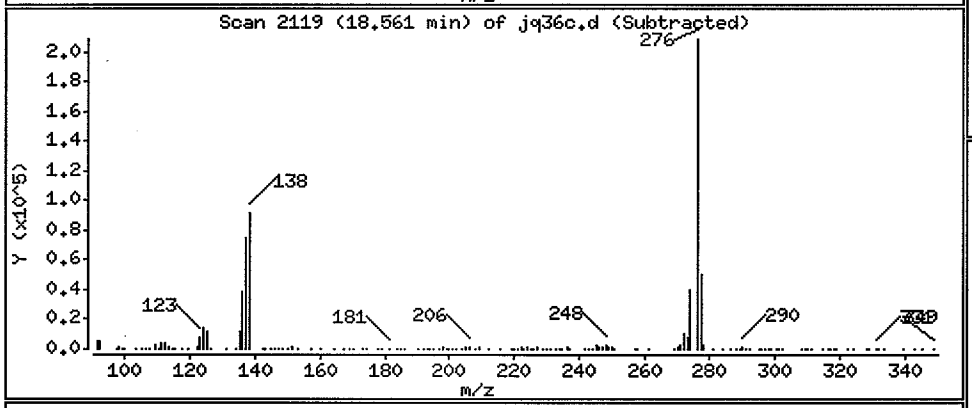
Column diameter: 0.25

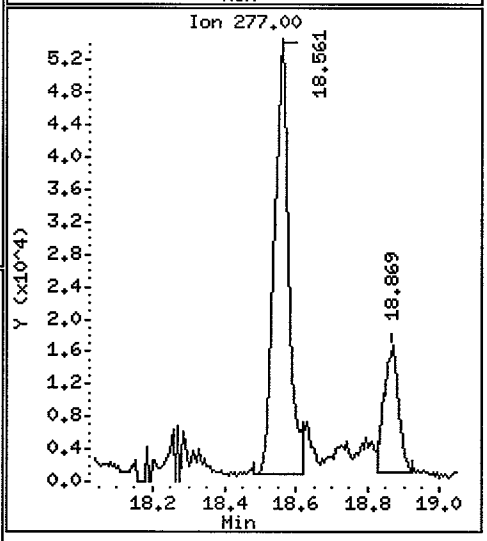
35 Benzo(g,h,i)perylene

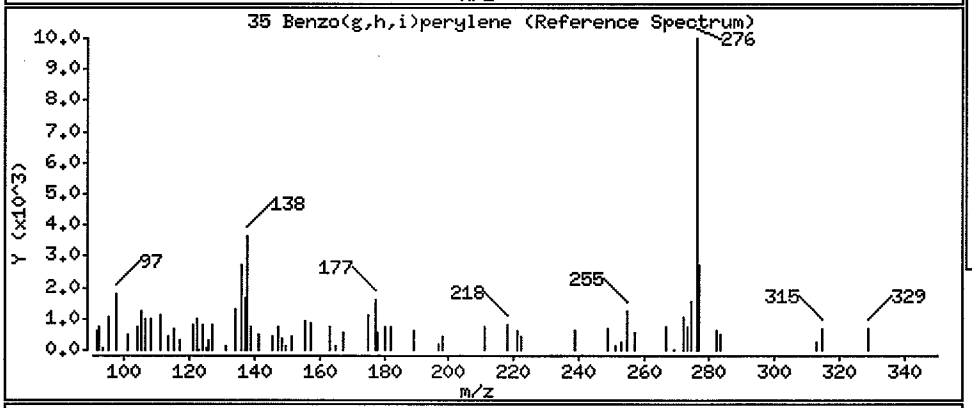
Concentration: 2450 ug/kg

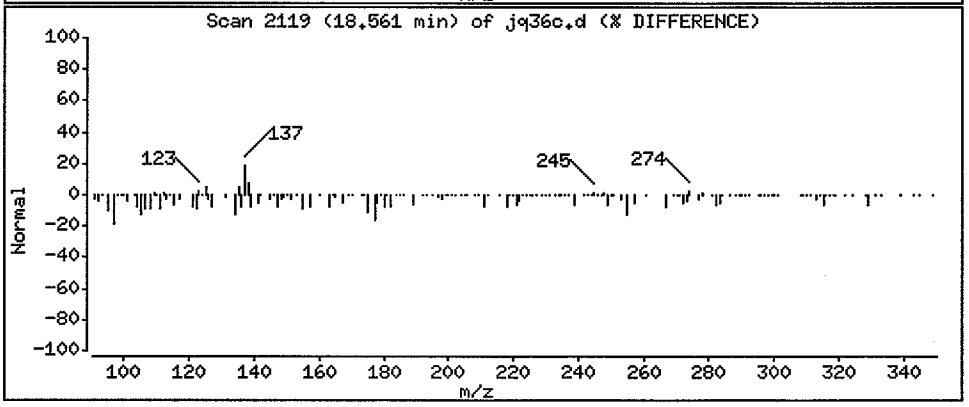












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

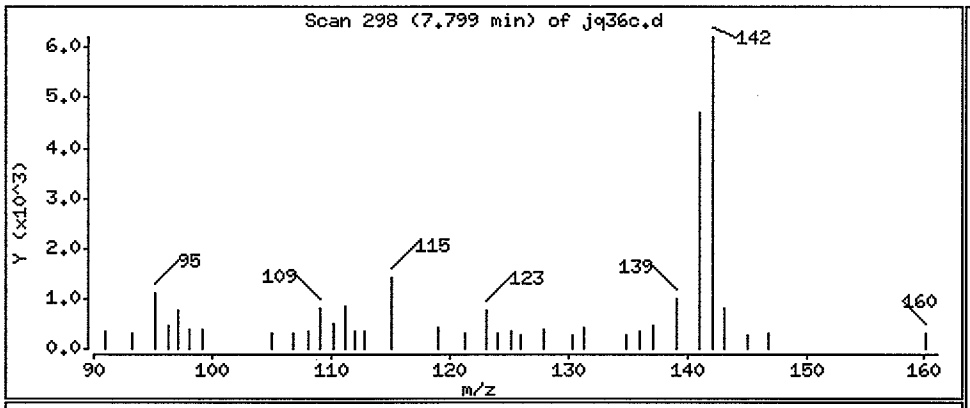
Operator: VTS

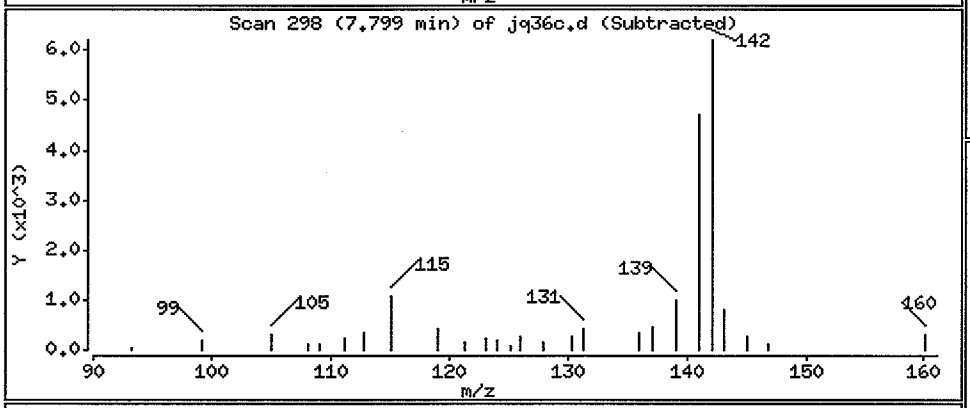
Column phase: ZB-5

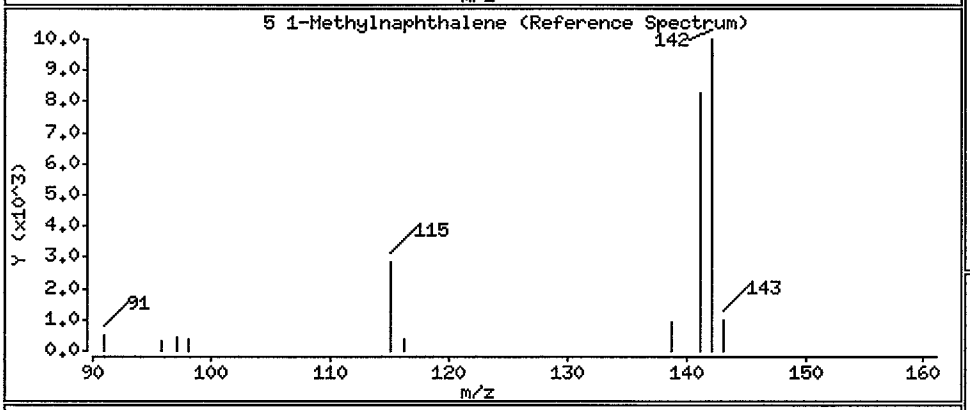
Column diameter: 0.25

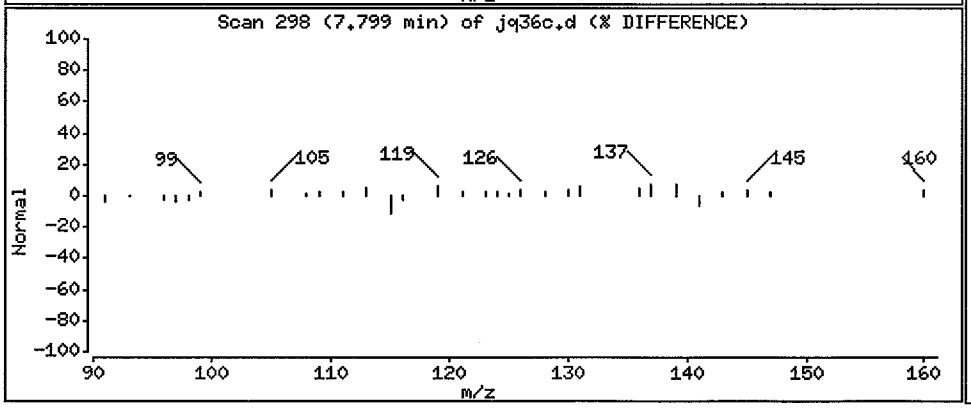
5 1-Methylnaphthalene

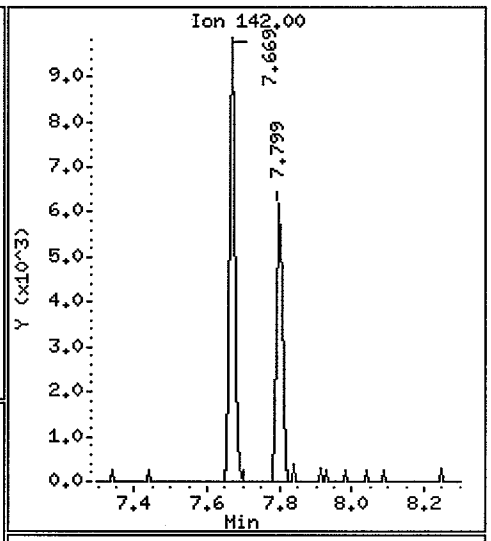
Concentration: 33.96 ug/kg

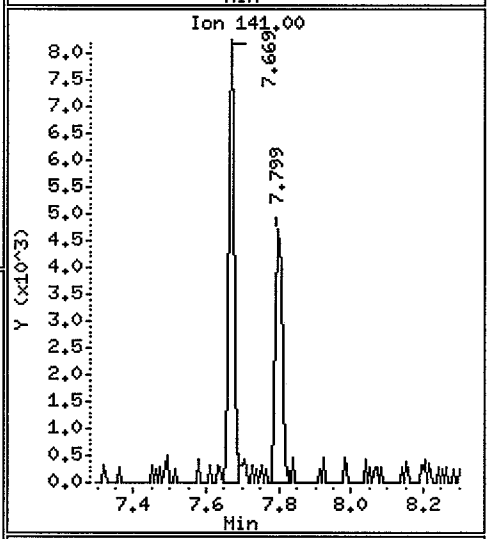


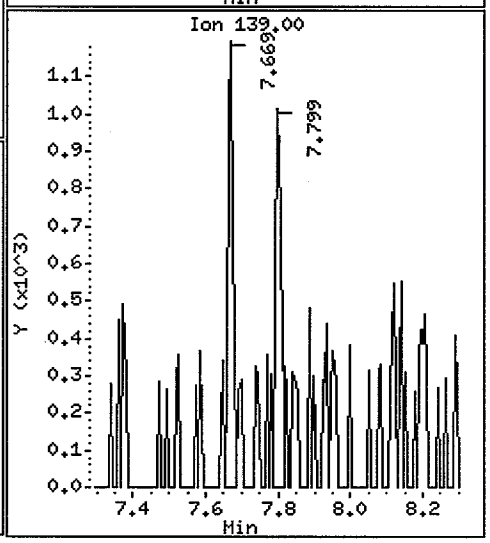












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

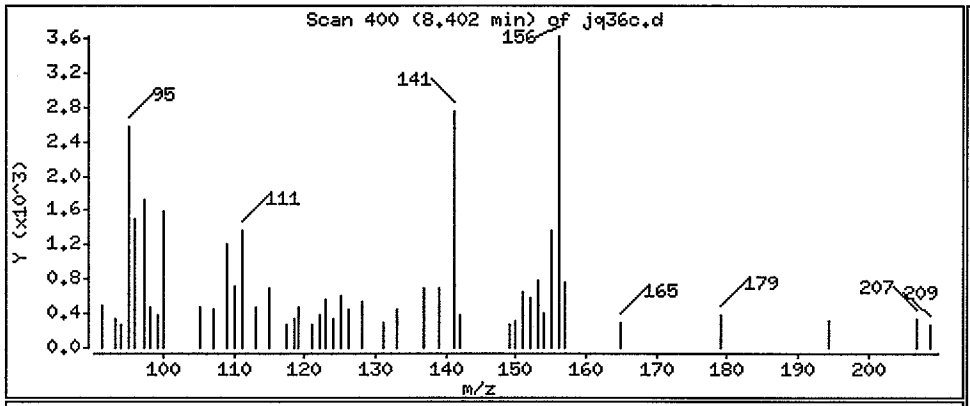
Operator: VTS

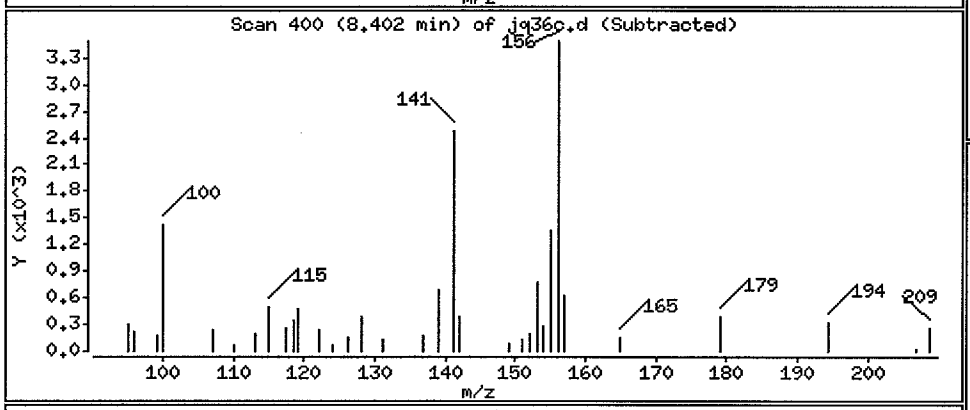
Column phase: ZB-5

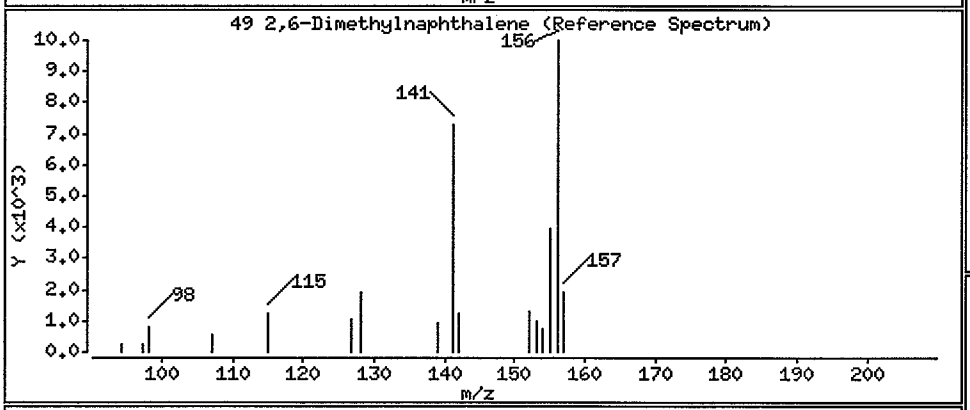
Column diameter: 0.25

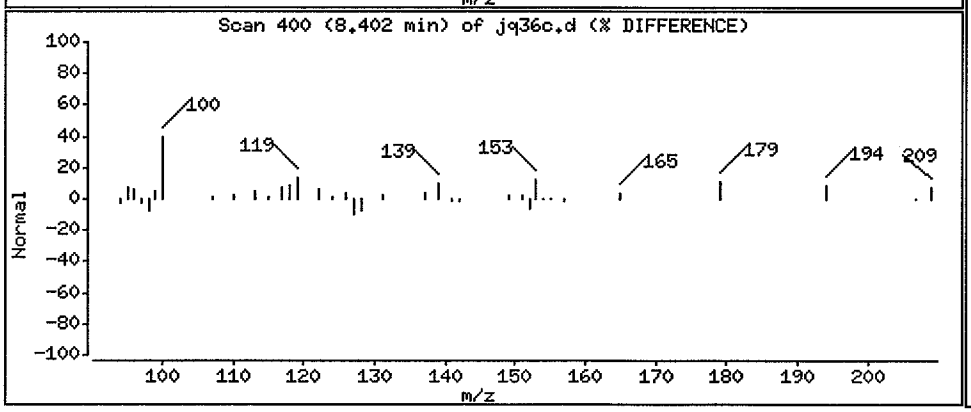
49 2,6-Dimethylnaphthalene

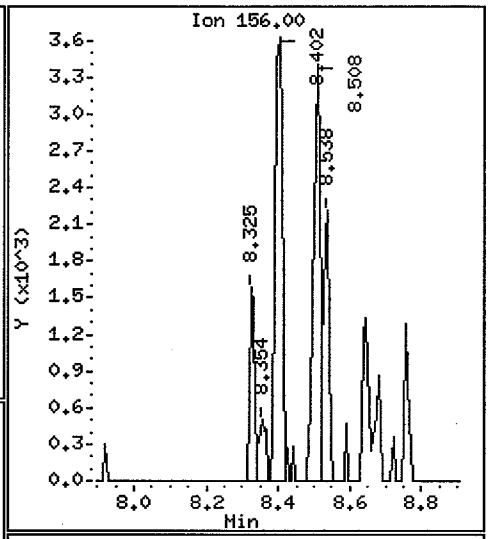
Concentration: 32.25 ug/kg

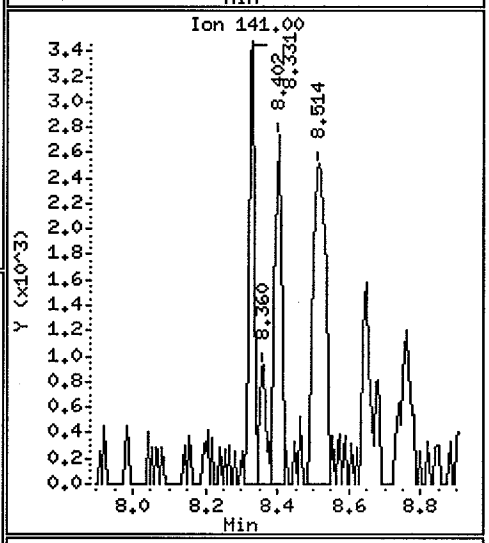


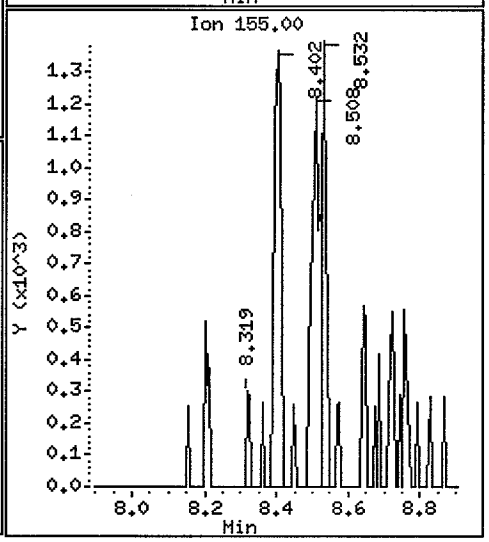












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

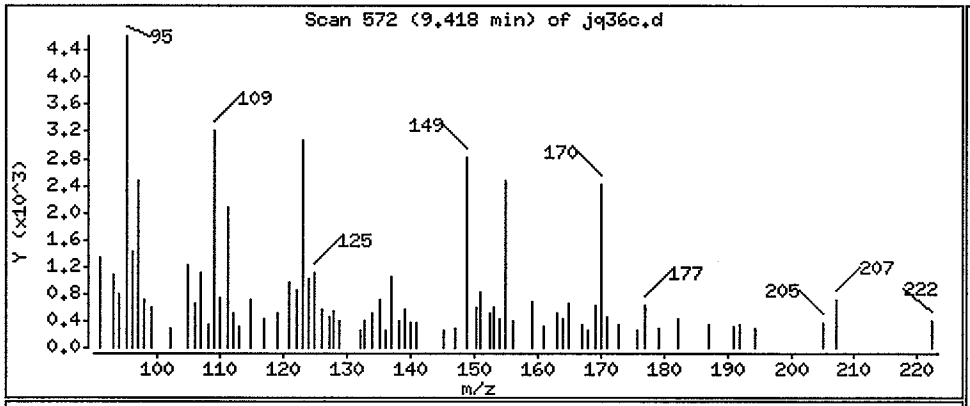
Operator: VTS

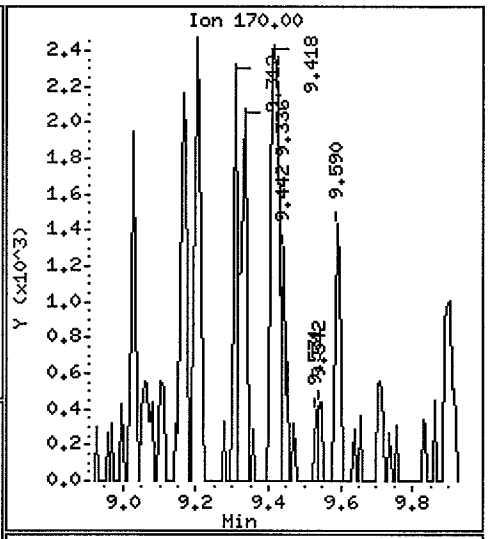
Column phase: ZB-5

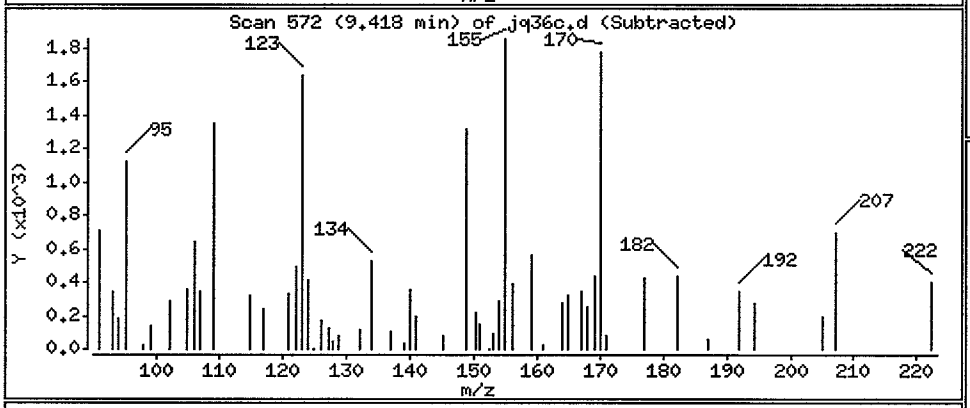
Column diameter: 0.25

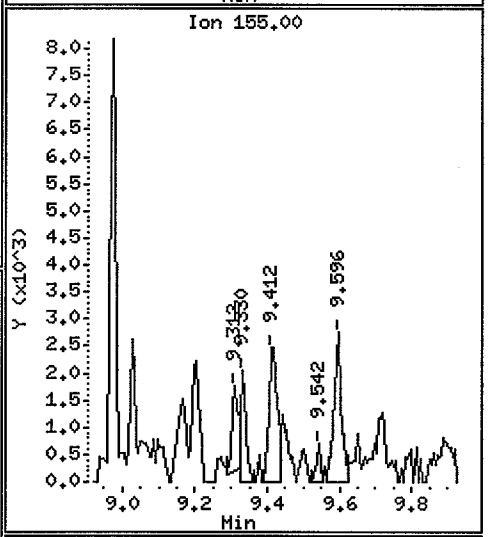
50 2,3,5-Trimethylnaphthalene

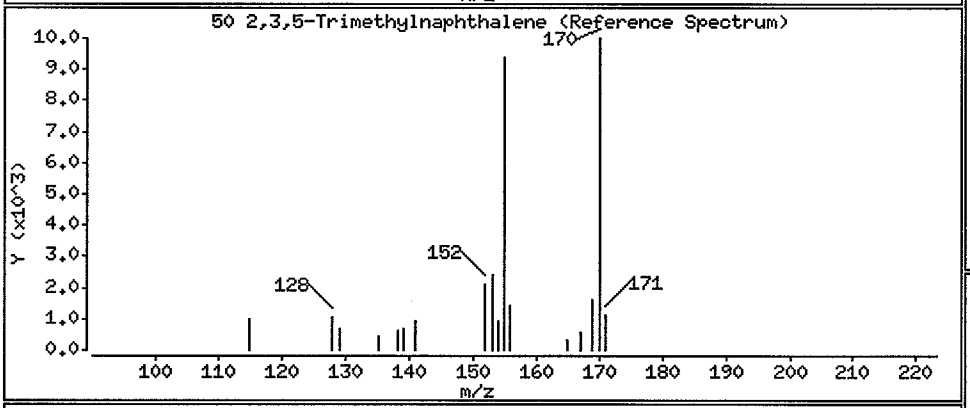
Concentration: 32.28 ug/kg

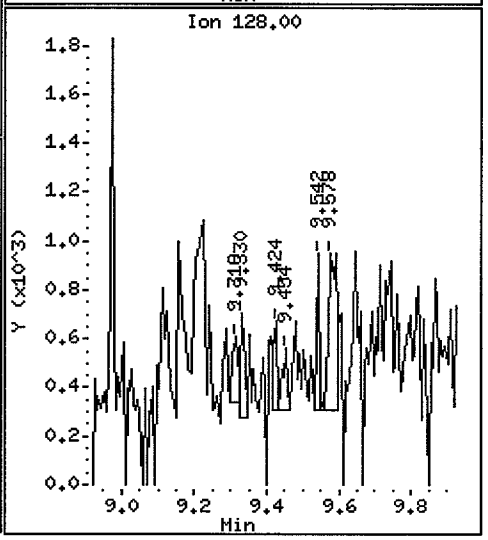


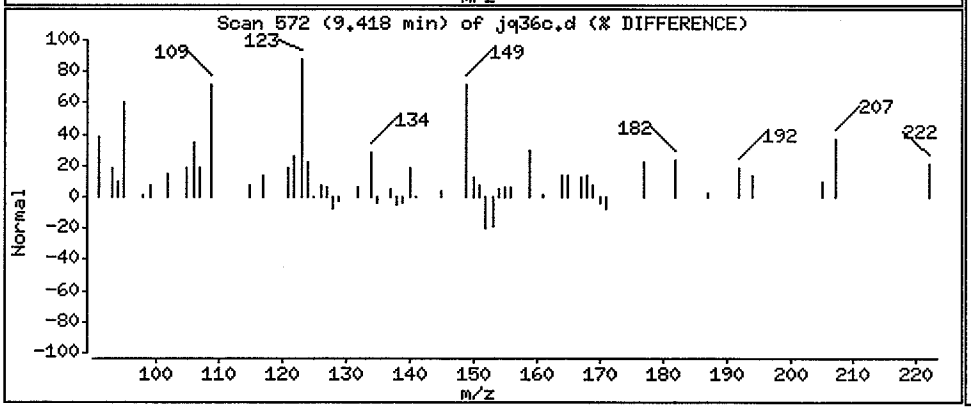












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

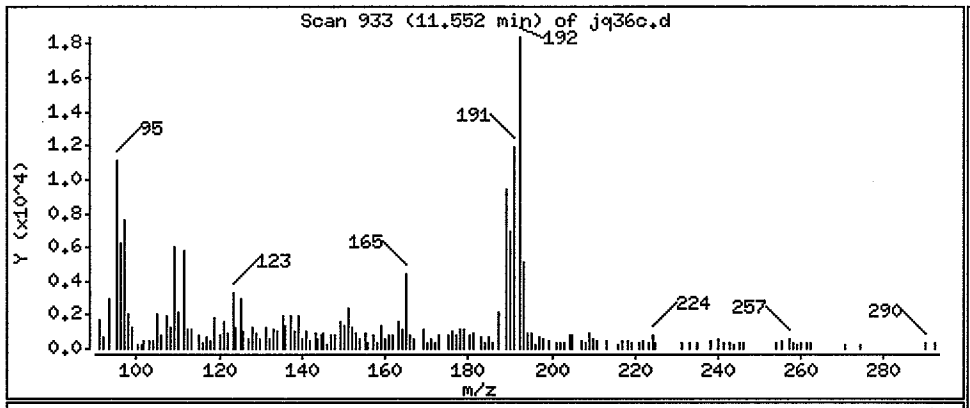
Operator: VTS

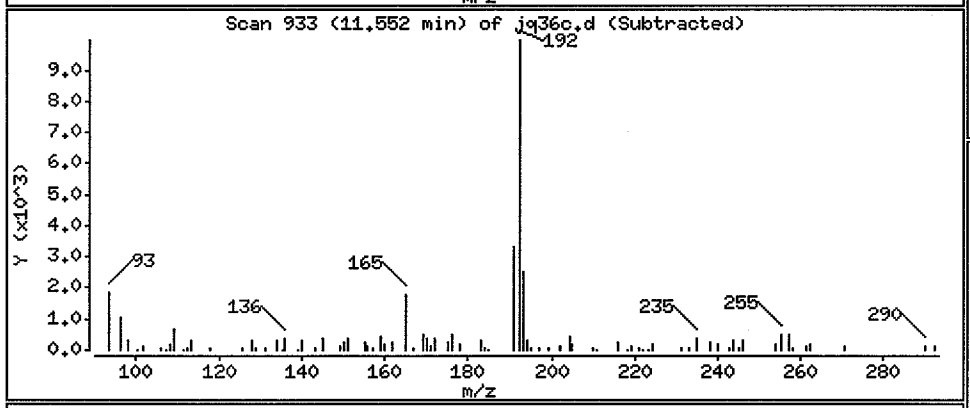
Column phase: ZB-5

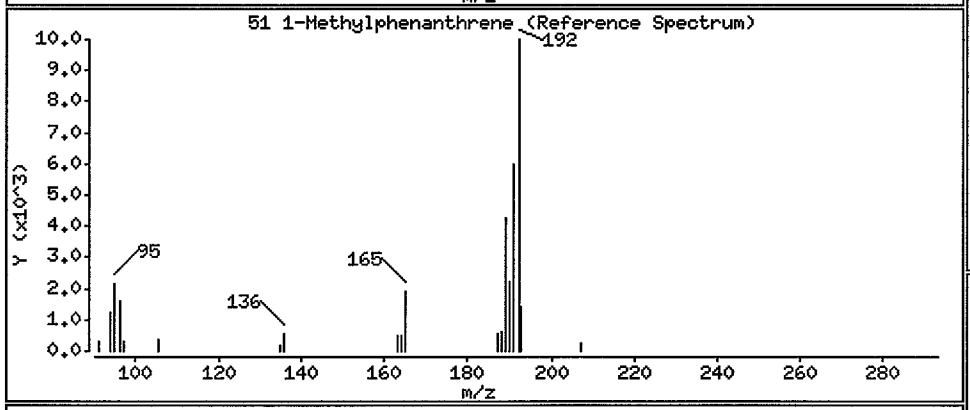
Column diameter: 0.25

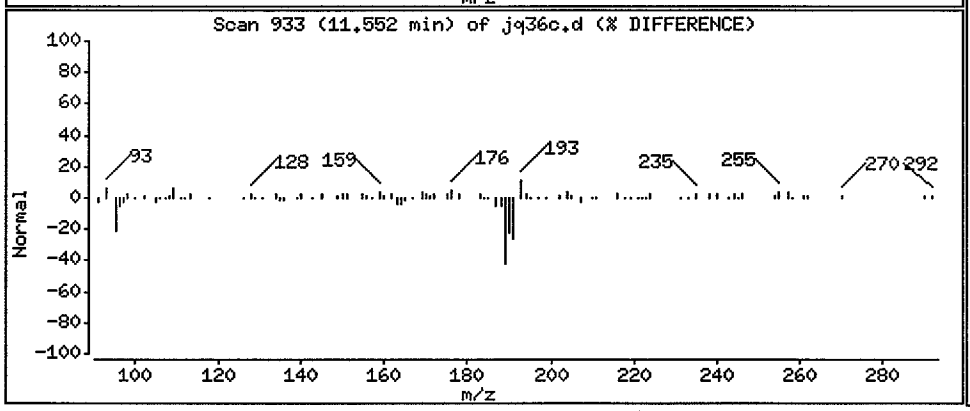
51 1-Methylphenanthrene

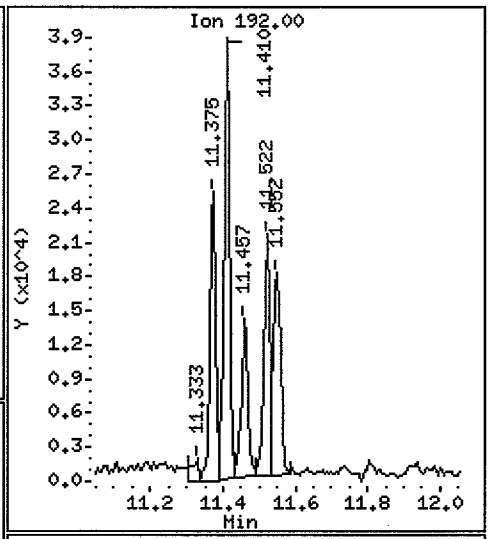
Concentration: 143.0 ug/kg

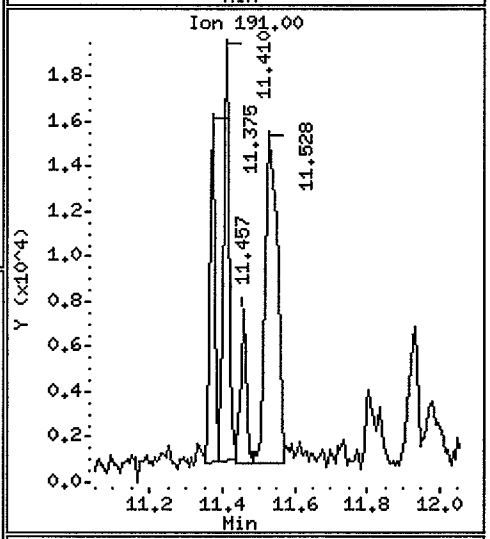


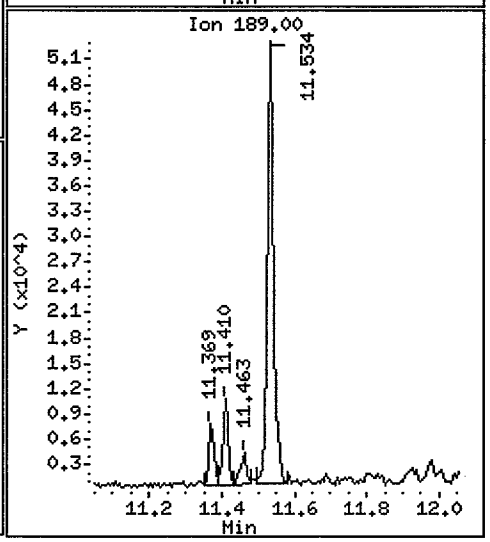












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

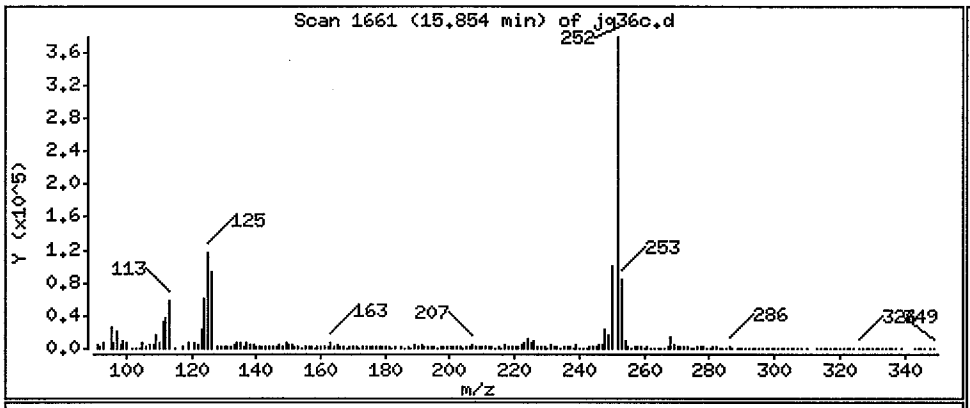
Operator: VTS

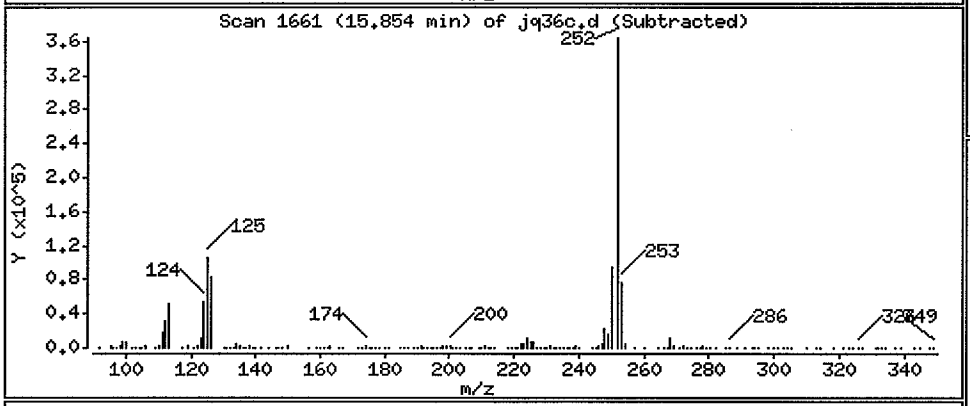
Column phase: ZB-5

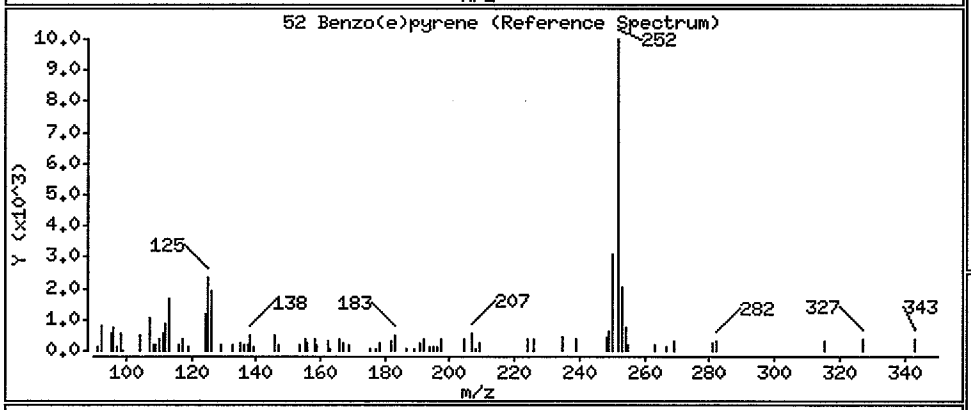
Column diameter: 0.25

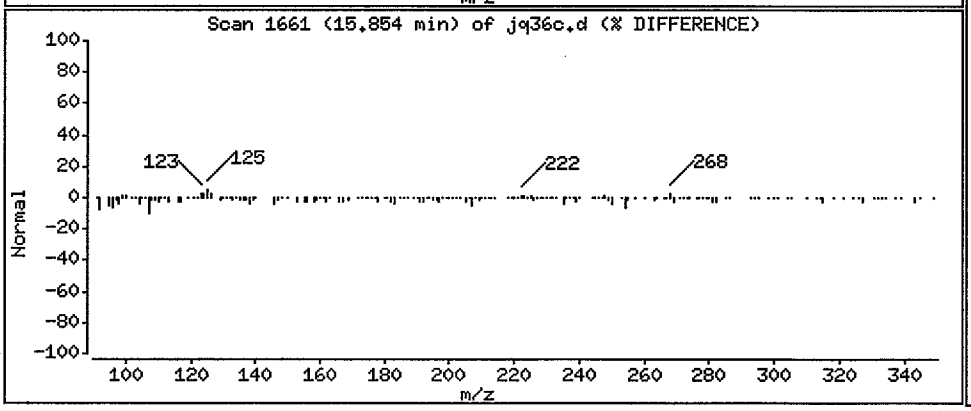
52 Benzo(e)pyrene

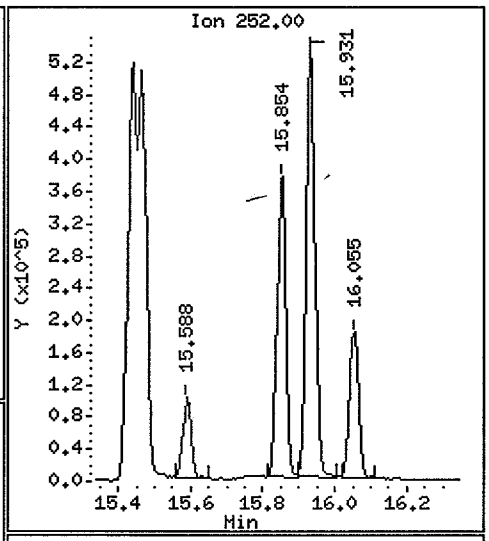
Concentration: 2114 ug/kg

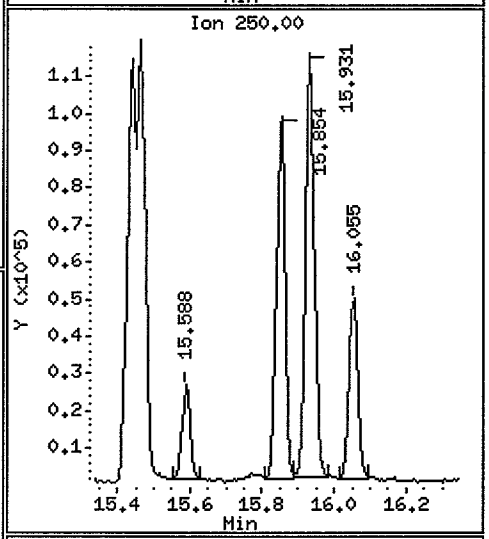


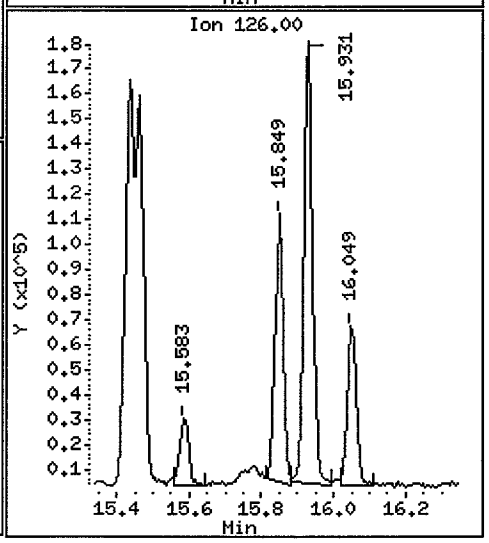












Data File: /chem3/nt1.i/20060809.b/jq36c.d

Date : 09-AUG-2006 10:28

Client ID: T4-S3-07-D

Instrument: nt1.i

Sample Info: JQ36C,10

Volume Injected (uL): 1.0

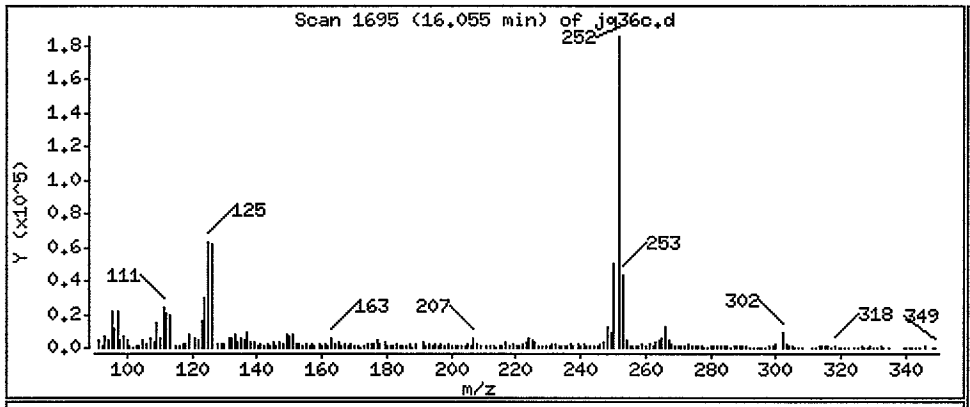
Operator: VTS

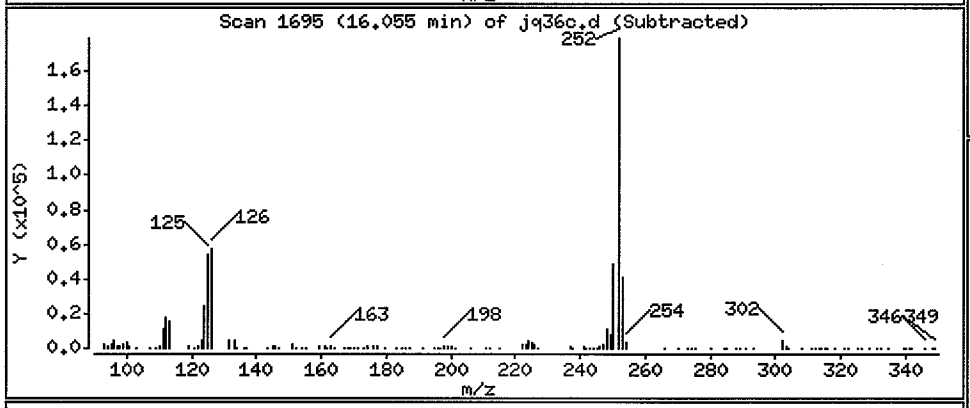
Column phase: ZB-5

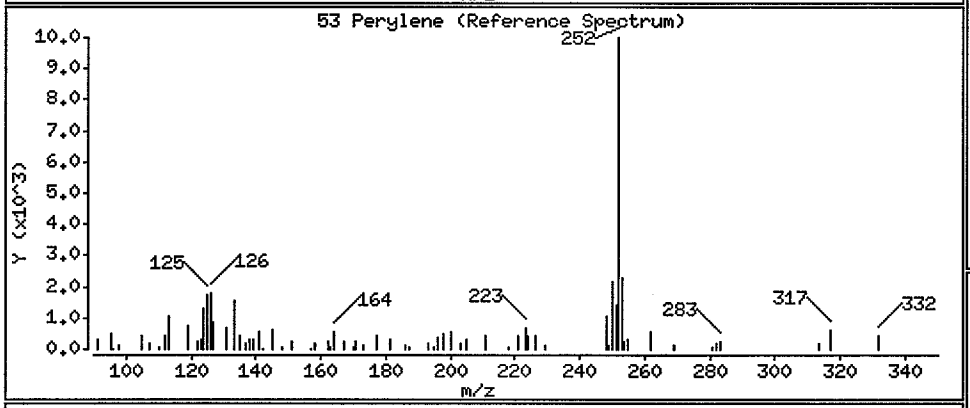
Column diameter: 0.25

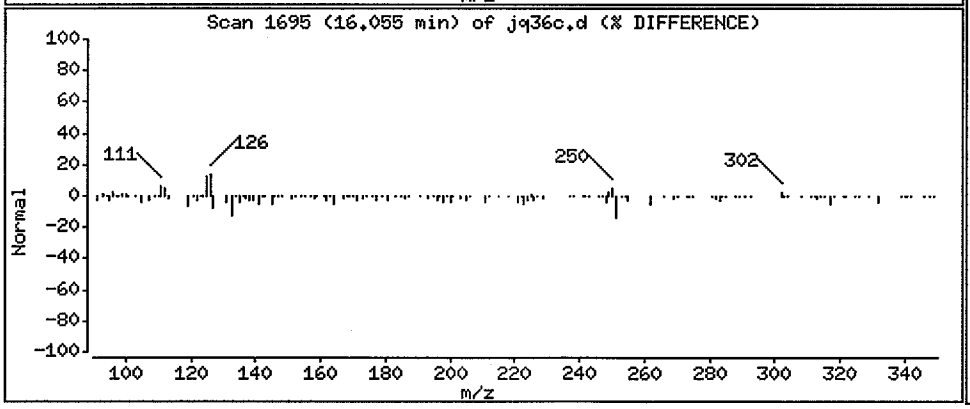
53 Perylene

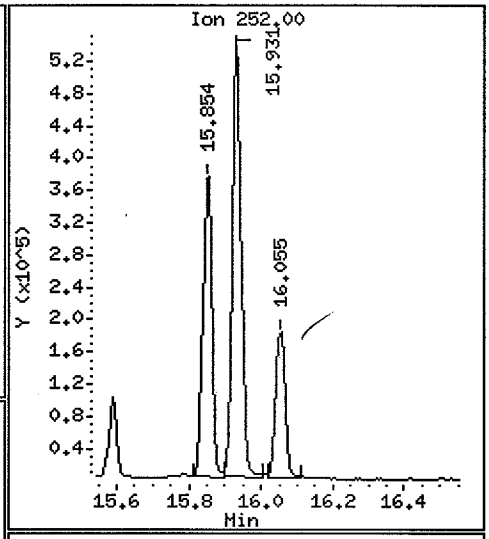
Concentration: 1140 ug/kg

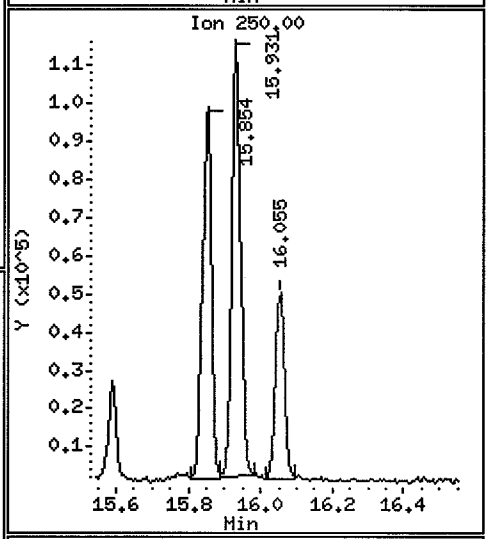


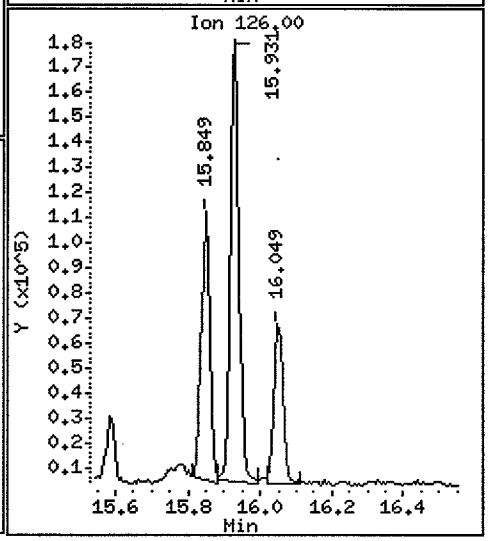












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-07-E**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 11:28
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.8**	**7.3**
91-57-6	**2-Methylnaphthalene**	**4.8**	**2.9 J**
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	**Acenaphthylene**	**4.8**	**2.9 J**
83-32-9	**Acenaphthene**	**4.8**	**21**
86-73-7	**Fluorene**	**4.8**	**13**
85-01-8	**Phenanthrene**	**4.8**	**90**
120-12-7	**Anthracene**	**4.8**	**26**
206-44-0	**Fluoranthene**	**4.8**	**250**
129-00-0	**Pyrene**	**4.8**	**250**
56-55-3	**Benzo(a)anthracene**	**4.8**	**140**
218-01-9	**Chrysene**	**4.8**	**170**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**160**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**160**
50-32-8	**Benzo(a)pyrene**	**4.8**	**190**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**120**
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**39**
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**140**
198-55-0	**Perylene**	**4.9**	**64**
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**	**8.7**
192-97-2	**Benzo(e)pyrene**	**4.8**	**120**
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	61.0%
d14-Dibenzo(a,h)anthracen	71.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq36d2.d
Lab Smp Id: JQ36D Client Smp ID: T4-S3-07-E
Inj Date : 09-AUG-2006 11:28
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36D
Misc Info : 06-12975
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 09:48 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 1
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	12.50000	Weight of sample extracted (g)
M	17.60000	% 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	6.873	6.877	(1.000)	313898	2.00000		
	2 Naphthalene	128	6.896	6.901	(1.003)	23927	0.15282	7.418	
$	3 2-Methylnaphthalene-d10	152	7.629	7.634	(1.110)	147571	1.82524	88.60	
	4 2-Methylnaphthalene	142	7.671	7.669	(1.116)	5663	0.06107	2.965	J
	5 1-Methylnaphthalene	142	Compound Not Detected.						
	7 Acenaphthylene	152	8.758	8.757	(0.980)	7935	0.06043	2.933	J
*	8 Acenaphthene-d10	164	8.935	8.934	(1.000)	158383	2.00000		
	9 Acenaphthene	153	8.977	8.975	(1.005)	34496	0.44357	21.53	
	10 Dibenzofuran	168	9.166	9.164	(1.026)	10315	0.09005	4.371	J
	11 Fluorene	166	9.586	9.590	(1.073)	23359	0.26194	12.72	
*	15 Phenanthrene-d10	188	10.750	10.748	(1.000)	239934	2.00000		
	16 Phenanthrene	178	10.779	10.778	(1.003)	228788	1.85773	90.18	
	17 Anthracene	178	10.833	10.837	(1.008)	67043	0.54474	26.44	
	19 Fluoranthene	202	12.275	12.273	(1.142)	635439	5.05865	245.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.564	12.557	(0.893)	690929	5.23259	254.0
	22 Benzo(a)anthracene	228	14.042	14.040	(0.998)	348951	2.81799	136.8
*	23 Chrysene-d12	240	14.065	14.058	(1.000)	205634	2.00000	
	24 Chrysene	228	14.095	14.093	(1.002)	400341	3.50515	170.2
	28 Benzo(b)fluoranthene	252	15.437	15.429	(0.964)	429357	3.40499	165.3
	29 Benzo(k)fluoranthene	252	15.460	15.459	(0.966)	439980	3.27291	158.9
	30 Benzo(a)pyrene	252	15.933	15.926	(0.995)	481559	3.91930	190.3
*	31 Perylene-d12	264	16.010	16.008	(1.000)	223426	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.972	17.959	(1.123)	347770	2.46124	119.5
$	32 Dibenz(a,h)anthrancene-d14	292	17.889	17.888	(1.117)	184025	2.15222	104.5
	34 Dibenz(a,h)anthracene	278	17.954	17.959	(1.121)	92834	0.80424	39.04
	35 Benzo(g,h,i)perylene	276	18.551	18.544	(1.159)	350776	2.98646	145.0
	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	11.554	11.552	(0.821)	14786	0.17566	8.527
	52 Benzo(e)pyrene	252	15.850	15.843	(0.990)	325755	2.39516	116.3
	53 Perylene	252	16.051	16.050	(1.003)	168101	1.31638	63.90

UTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36d2.d
Lab Smp Id: JQ36D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12975

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-S3-07-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	313898	30.75
8 Acenaphthene-d10	117778	58889	235556	158383	34.48
15 Phenanthrene-d10	165702	82851	331404	239934	44.80
23 Chrysene-d12	120342	60171	240684	205634	70.87
31 Perylene-d12	134879	67440	269758	223426	65.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.87	-0.06
8 Acenaphthene-d10	8.93	8.43	9.43	8.94	0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.01
23 Chrysene-d12	14.06	13.56	14.56	14.07	0.05
31 Perylene-d12	16.01	15.51	16.51	16.01	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

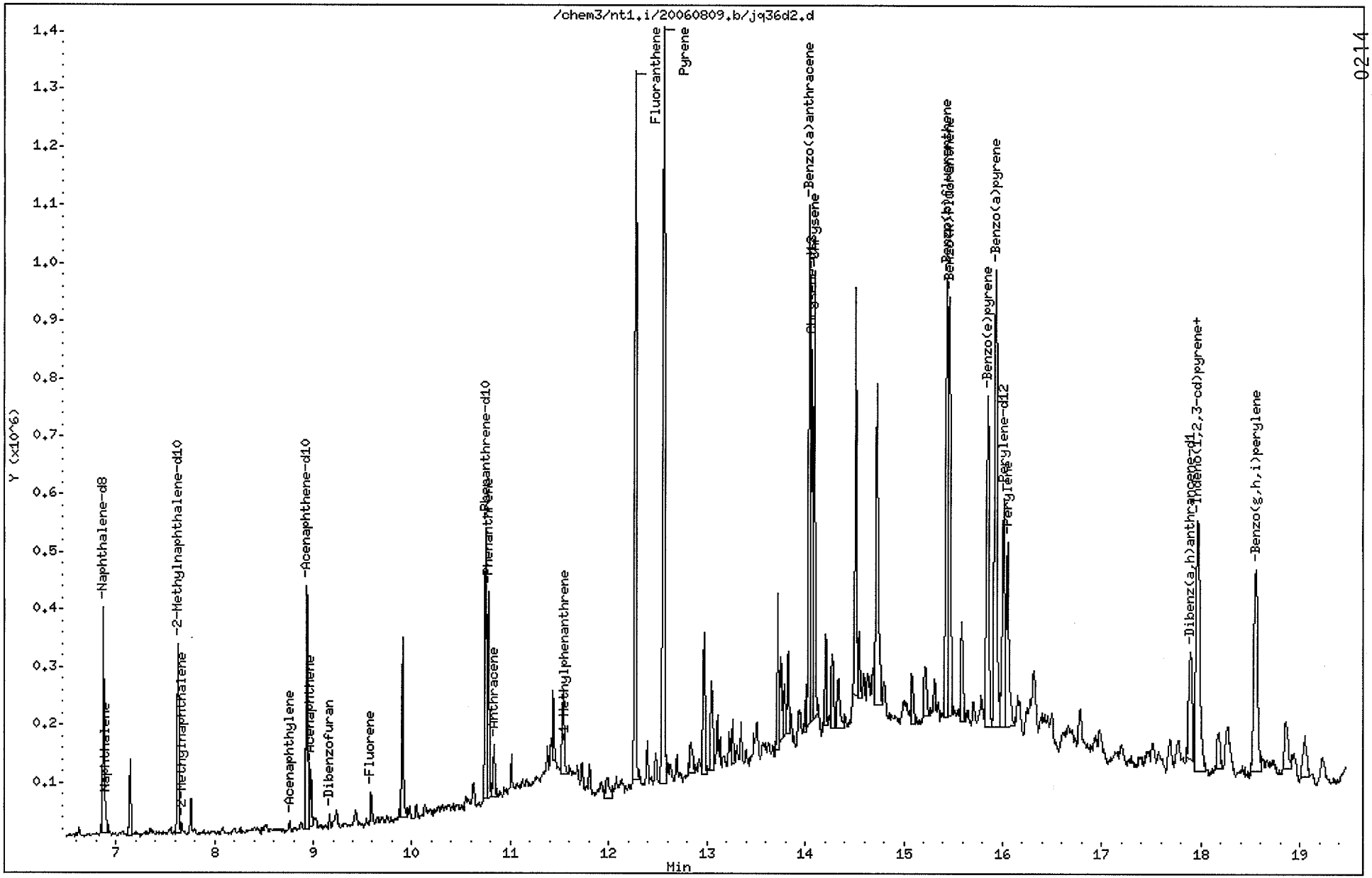
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36D
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12975

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-07-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	145.6	88.60	60.84	32-97
$ 32 Dibenz(a,h)anthran	145.6	104.5	71.74	21-105

Data File: /chem3/nt1.i/20060809.b/jq36d2.d
Date : 09-AUG-2006 11:28
Client ID: T4-S3-07-E
Sample Info: JQ36D
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

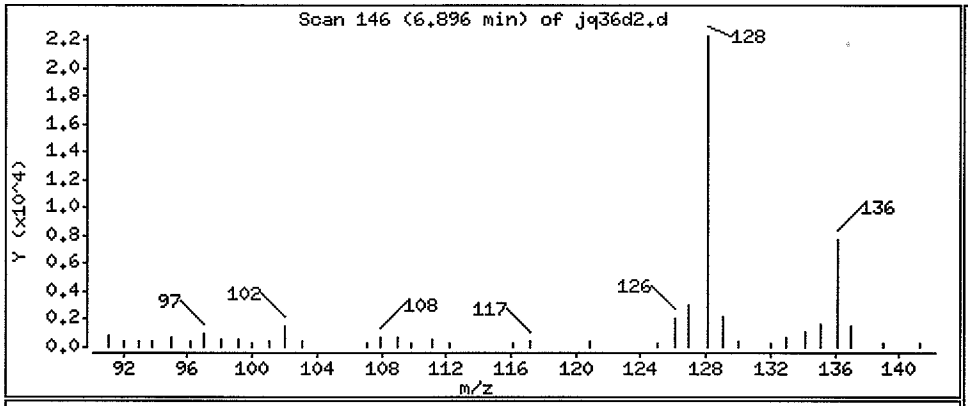
Operator: VTS

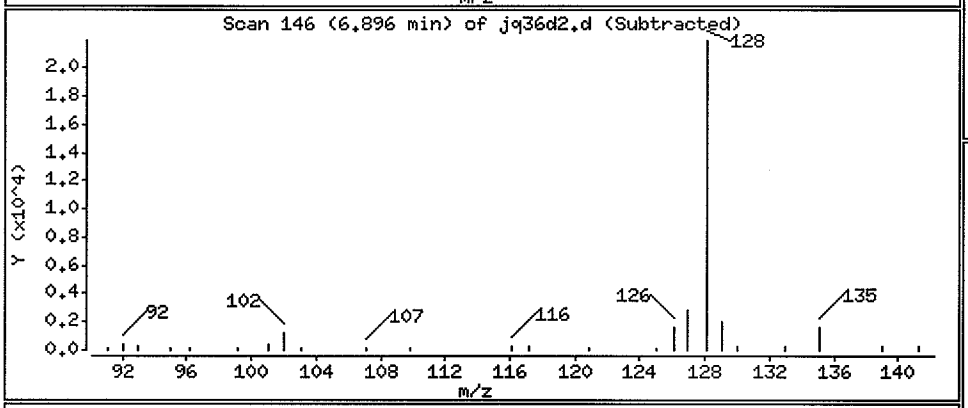
Column phase: ZB-5

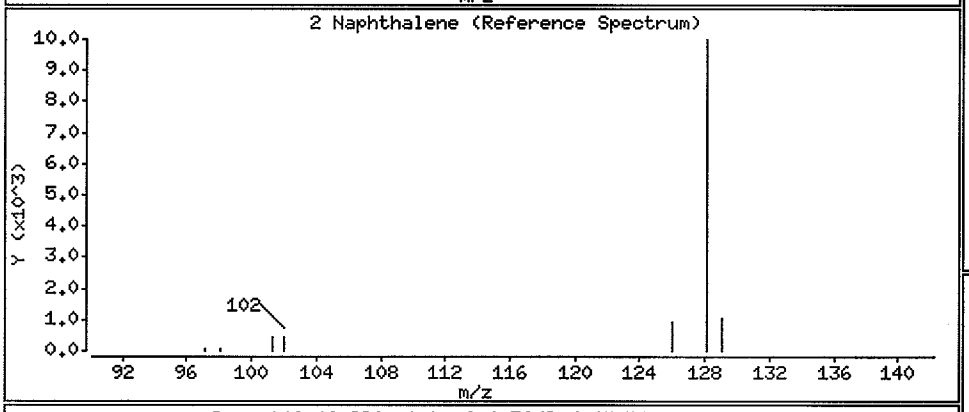
Column diameter: 0.25

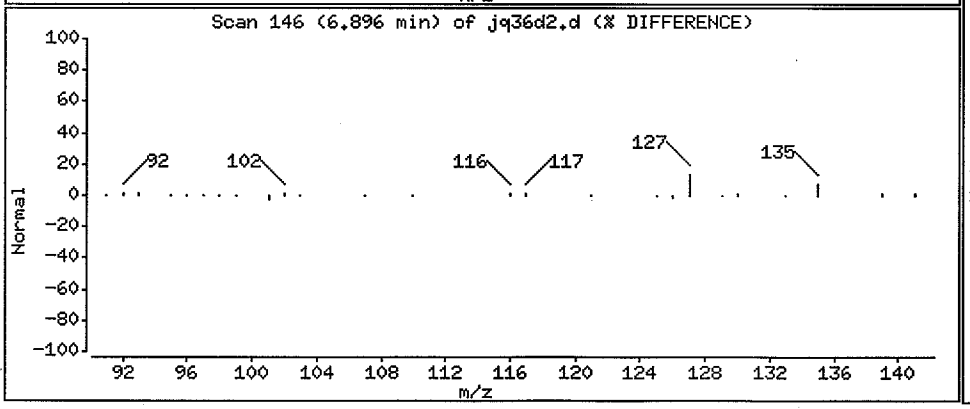
2 Naphthalene

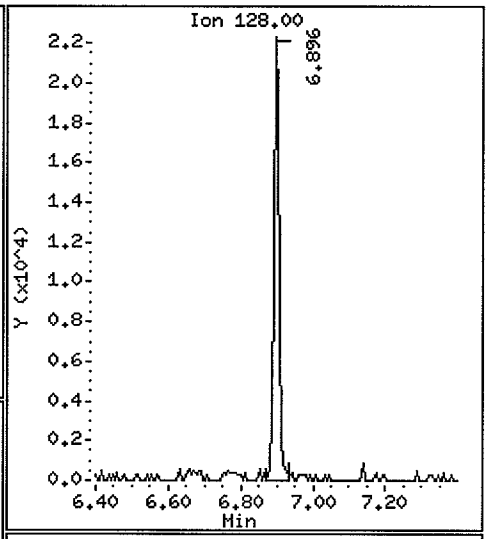
Concentration: 7.418 ug/kg

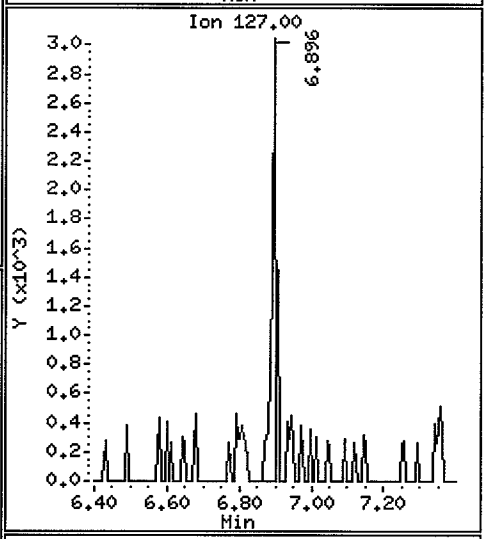


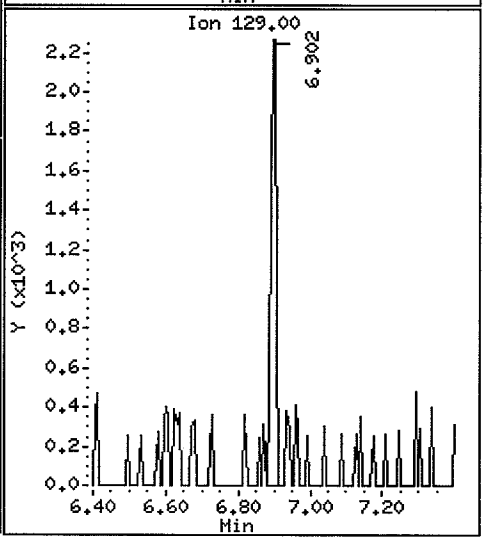












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

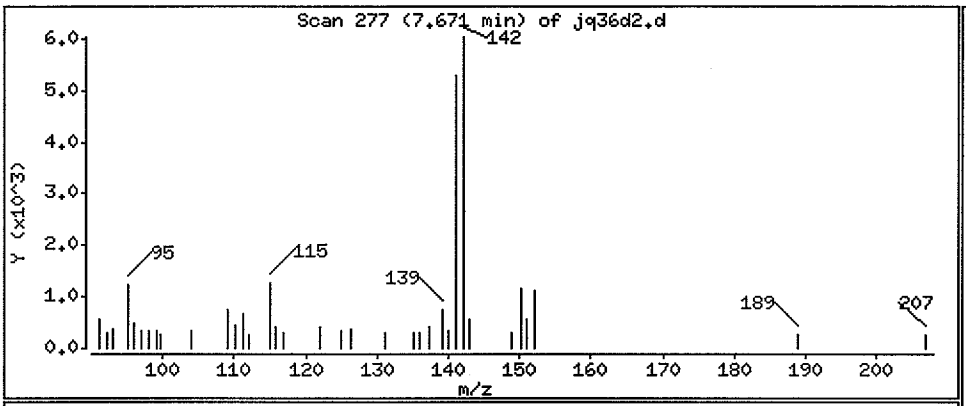
Operator: VTS

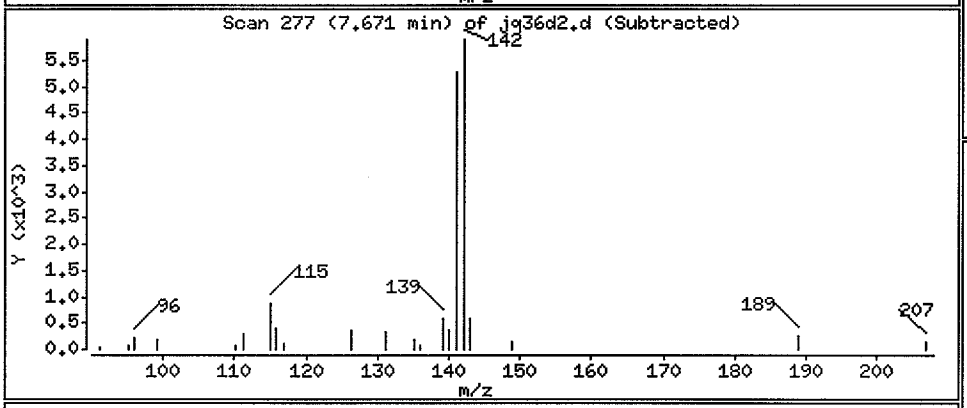
Column phase: ZB-5

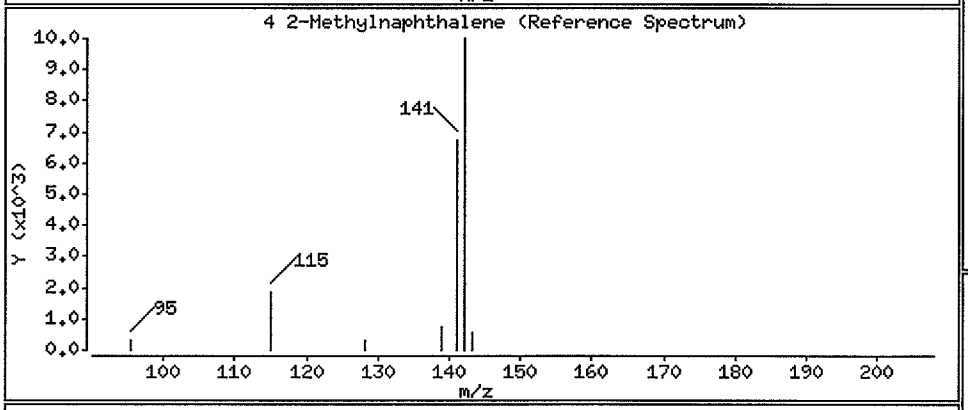
Column diameter: 0.25

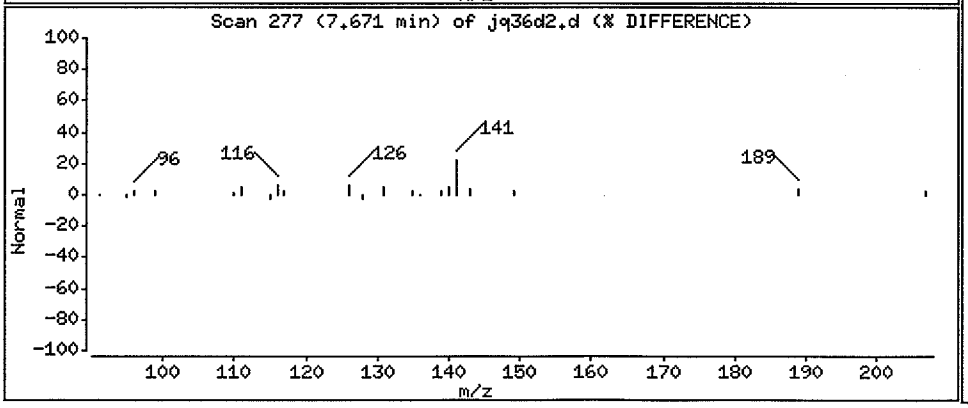
4 2-Methylnaphthalene

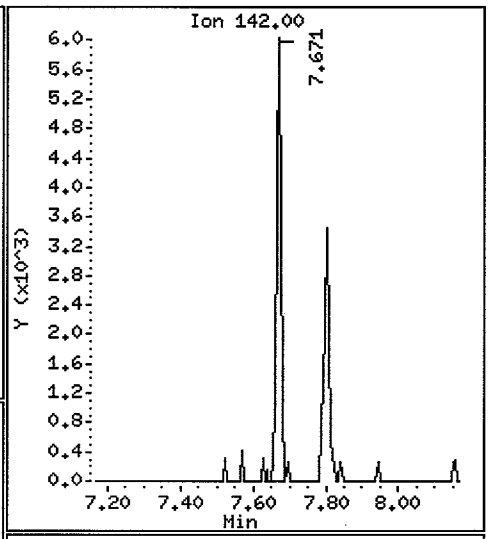
Concentration: 2.965 ug/kg

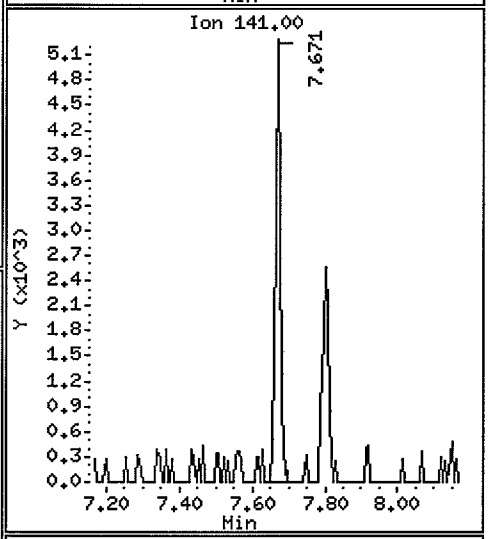


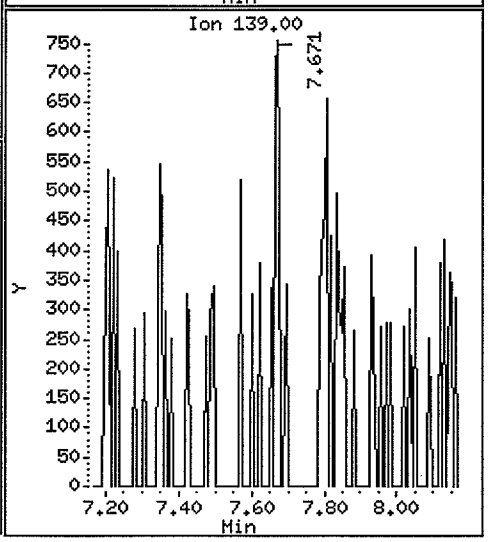












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

Operator: VTS

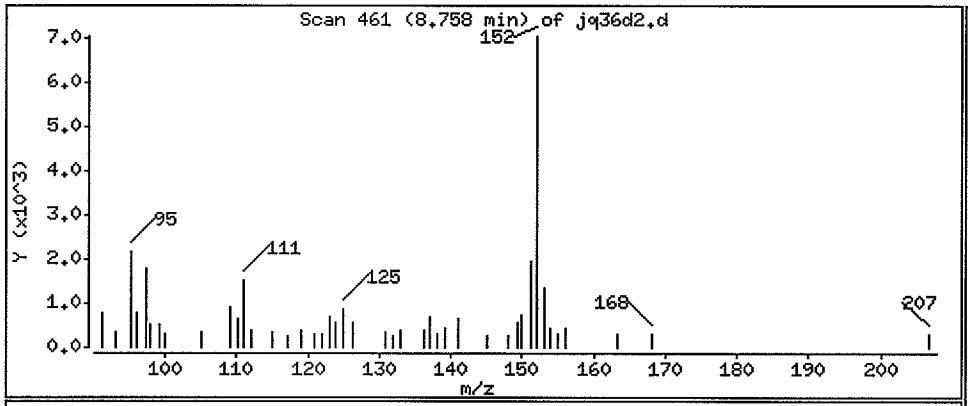
Column phase: ZB-5

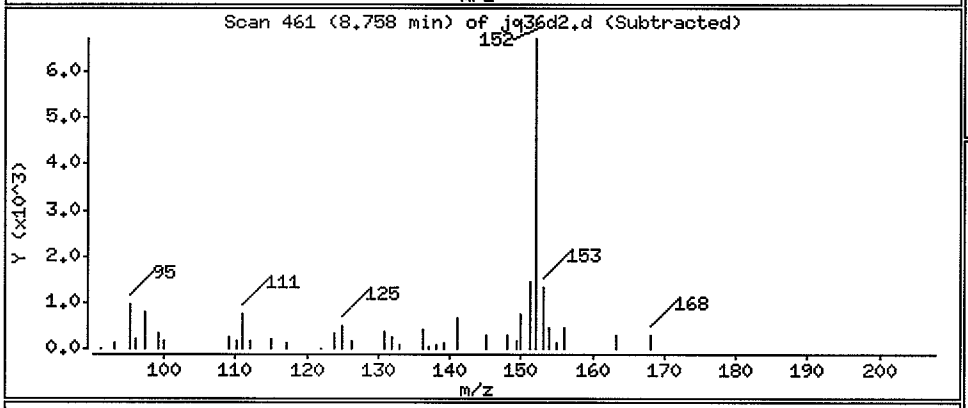
Column diameter: 0.25

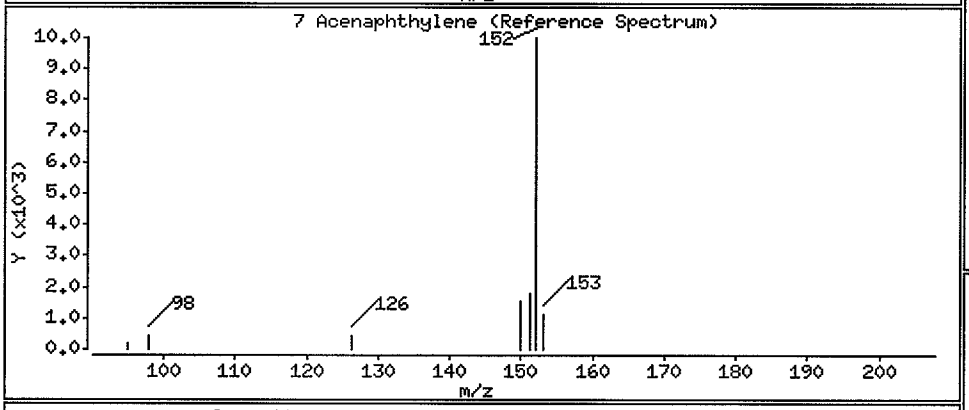
7 Acenaphthylene

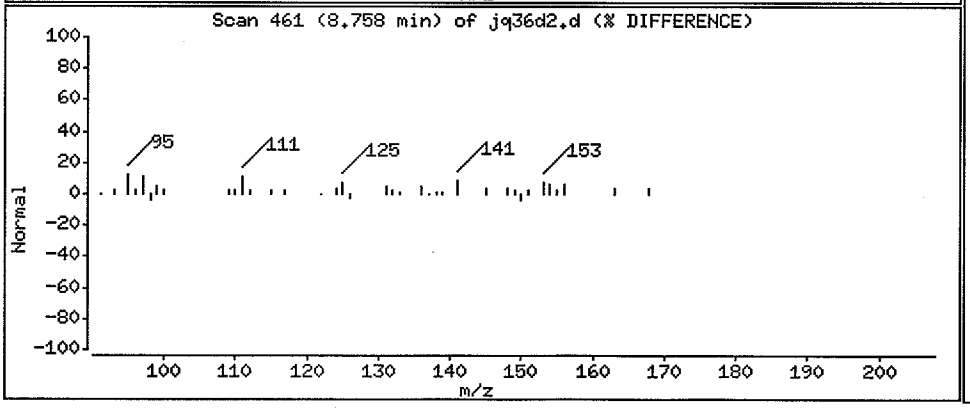
Concentration: 2.933 ug/kg

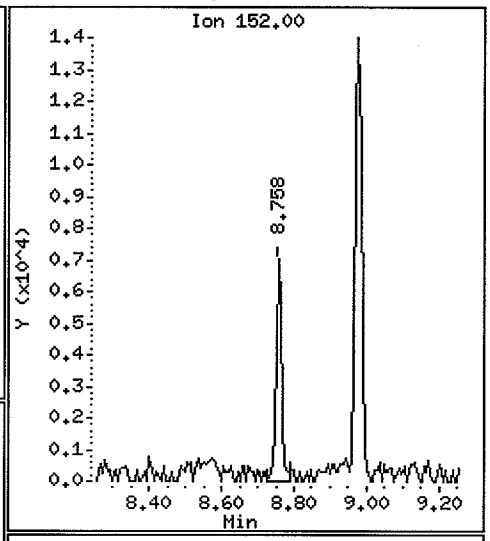
JLR

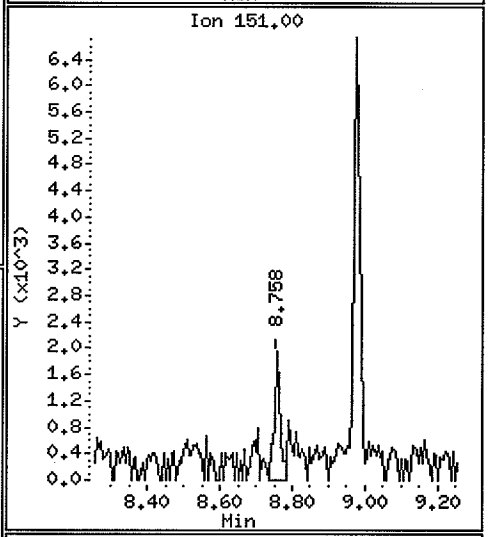


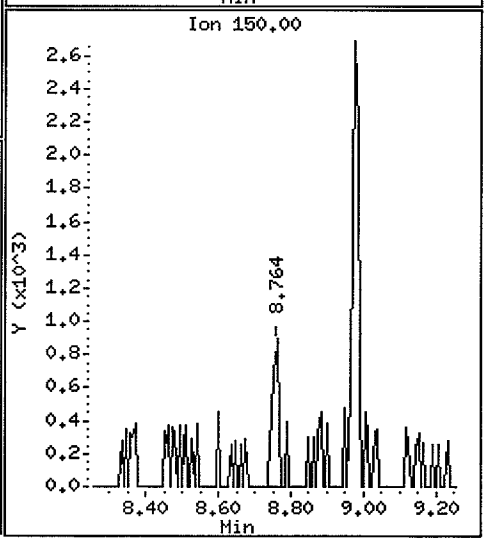












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

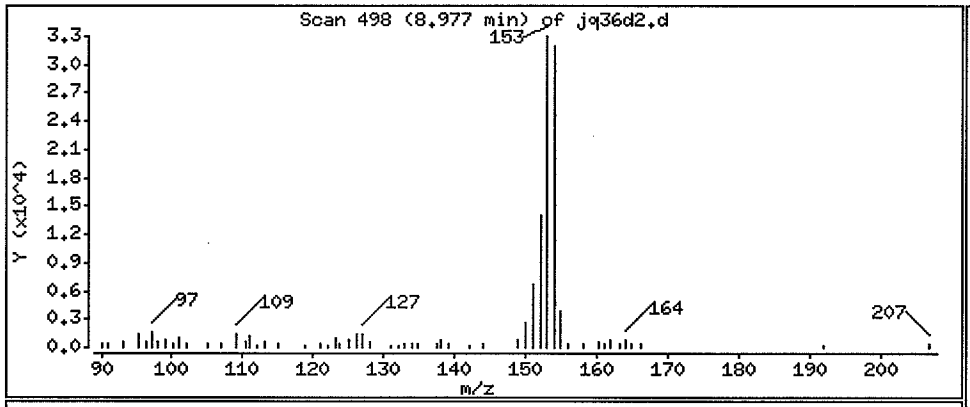
Operator: VTS

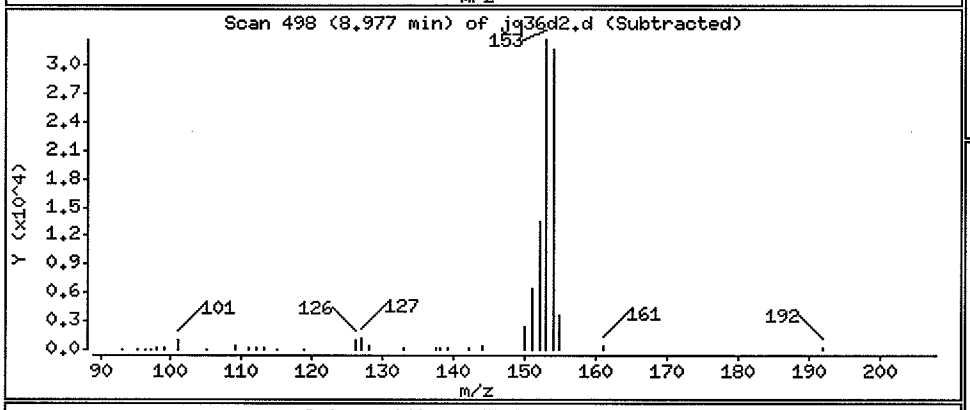
Column phase: ZB-5

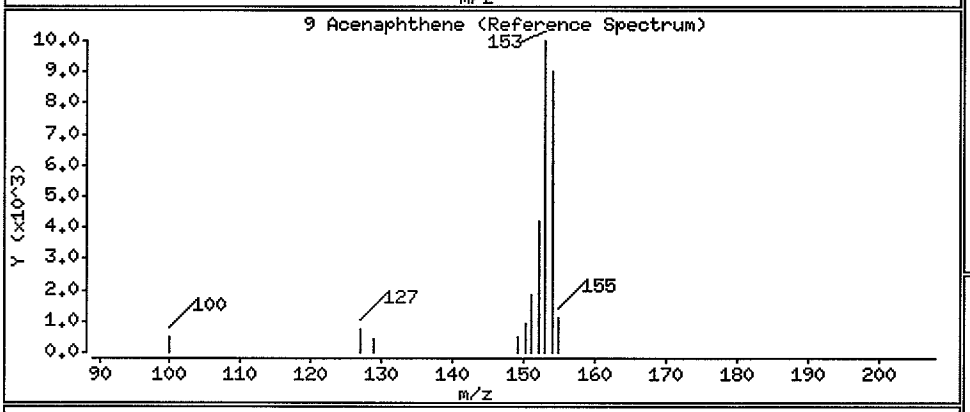
Column diameter: 0.25

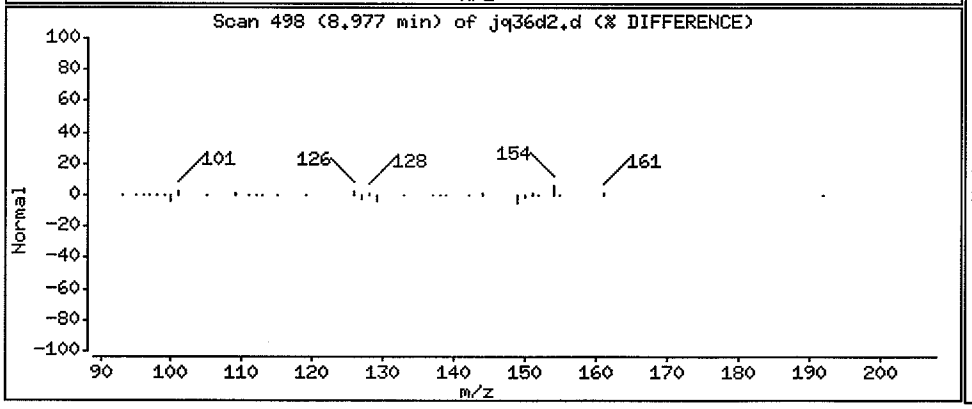
9 Acenaphthene

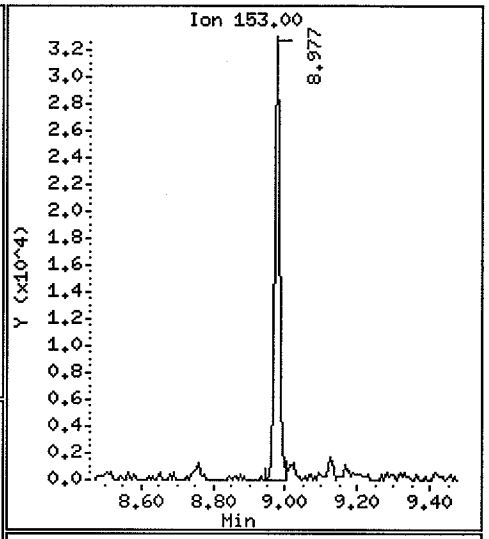
Concentration: 21.53 ug/kg

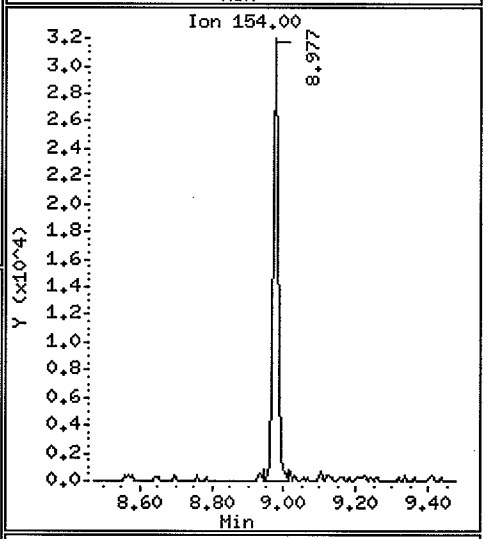


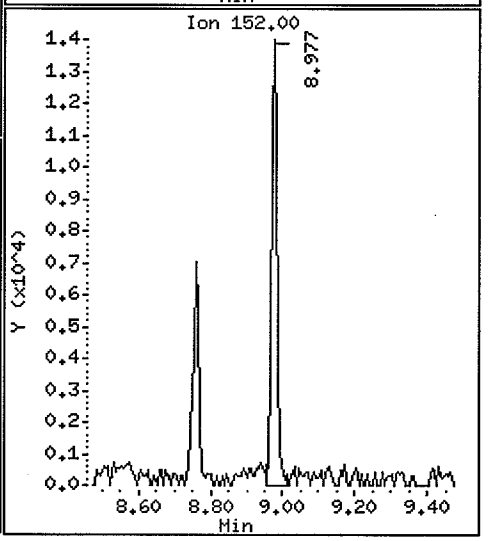












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

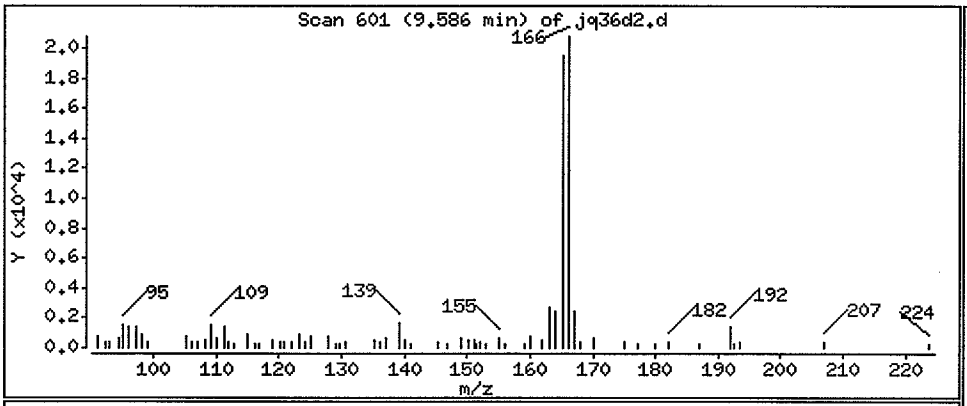
Operator: VTS

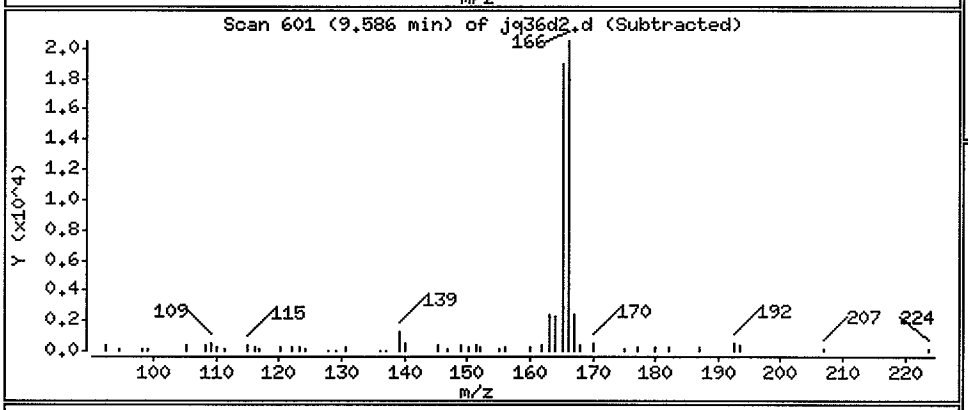
Column phase: ZB-5

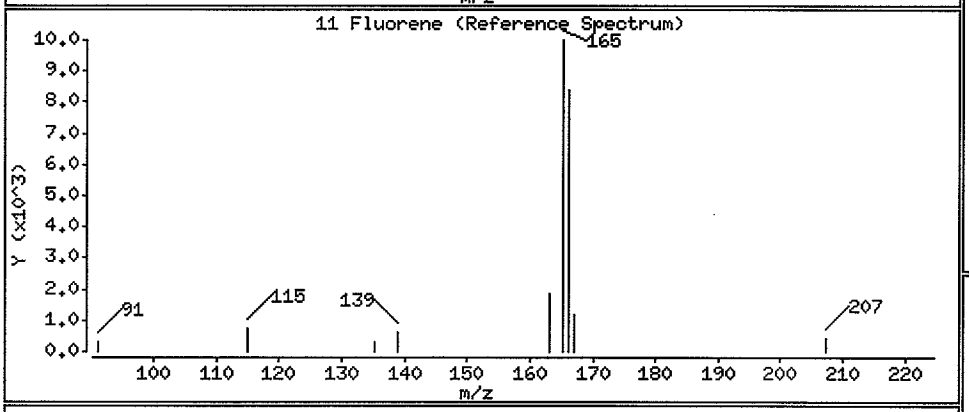
Column diameter: 0.25

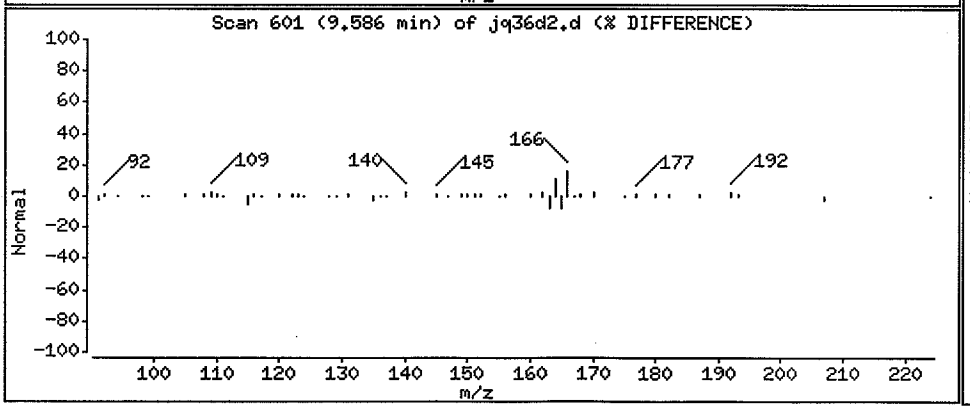
11 Fluorene

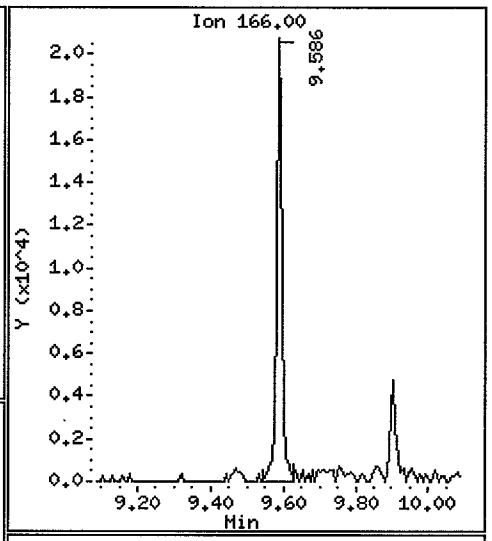
Concentration: 12.72 ug/kg

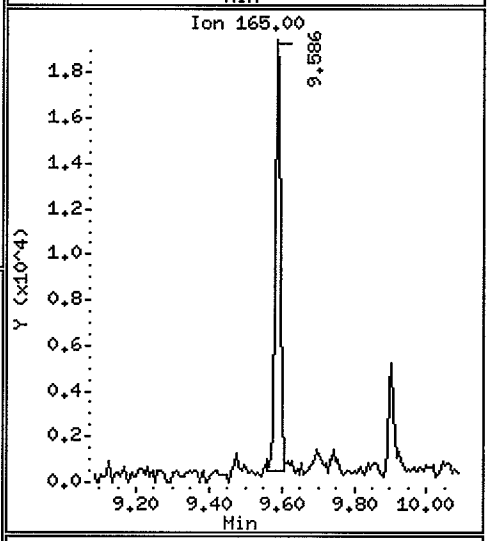


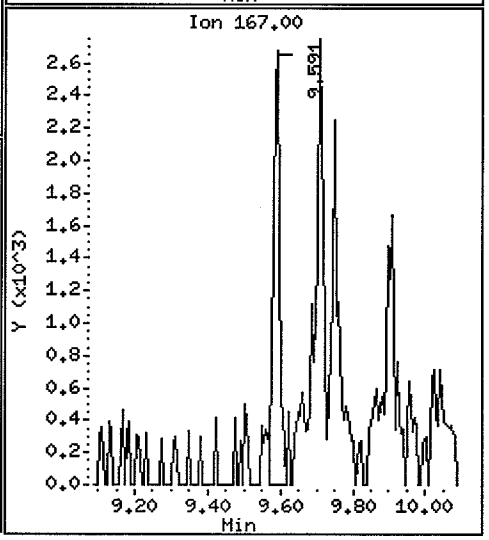












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

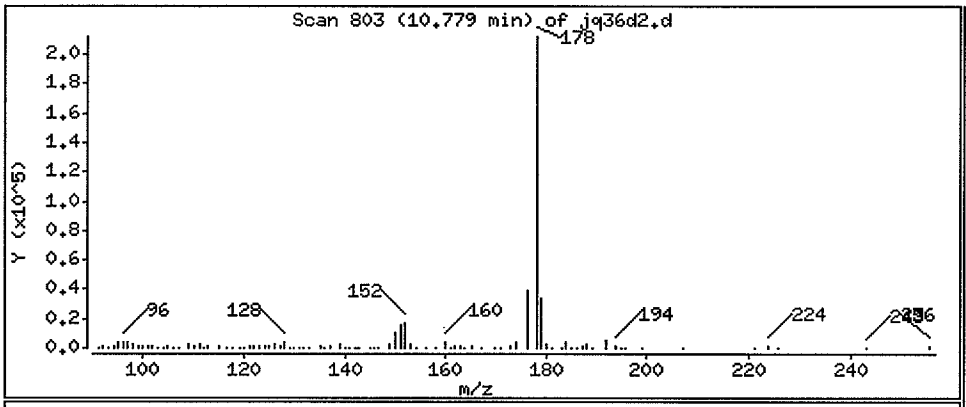
Operator: VTS

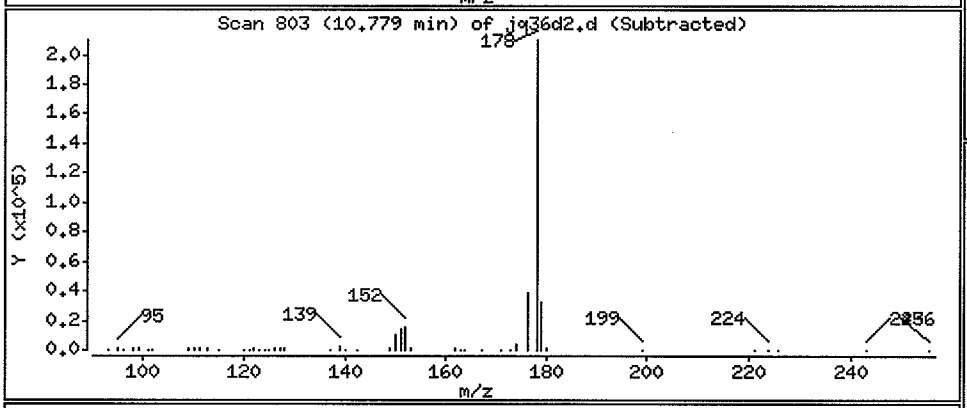
Column phase: ZB-5

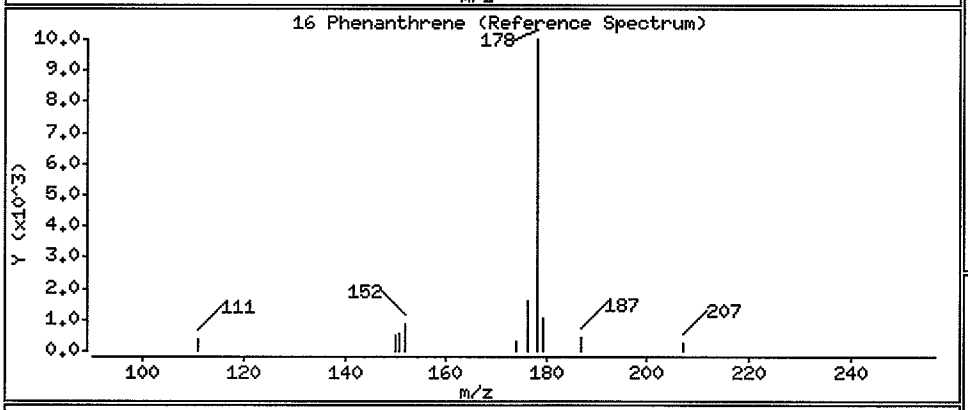
Column diameter: 0.25

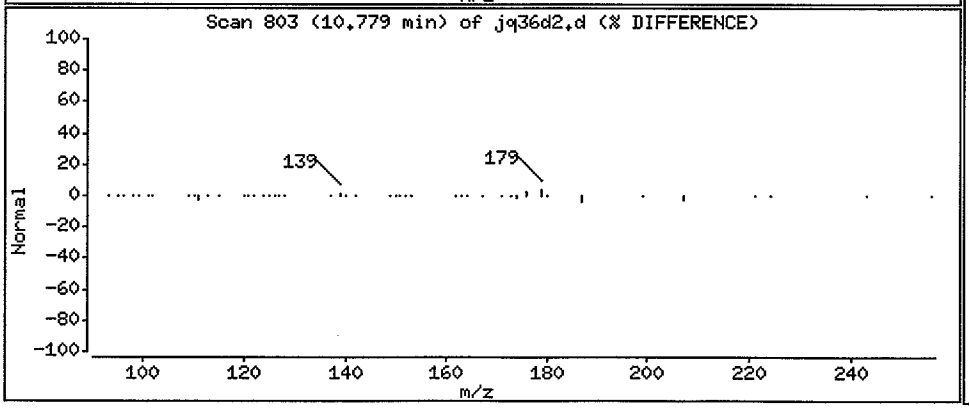
16 Phenanthrene

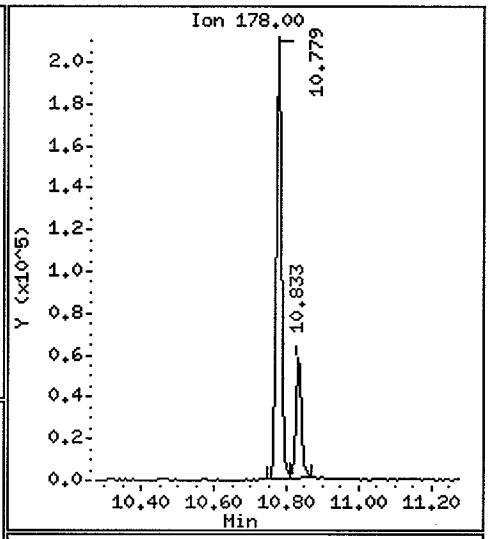
Concentration: 90.18 ug/kg

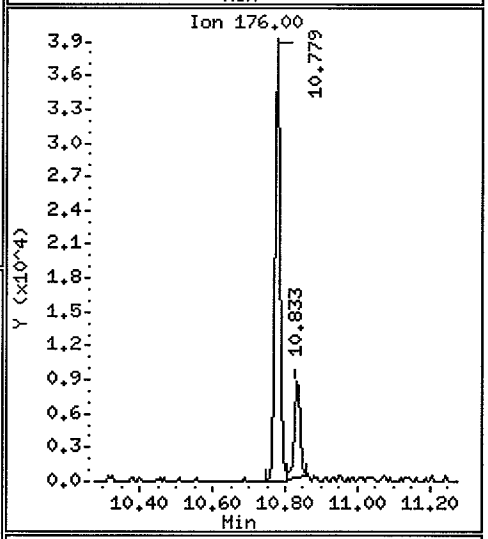


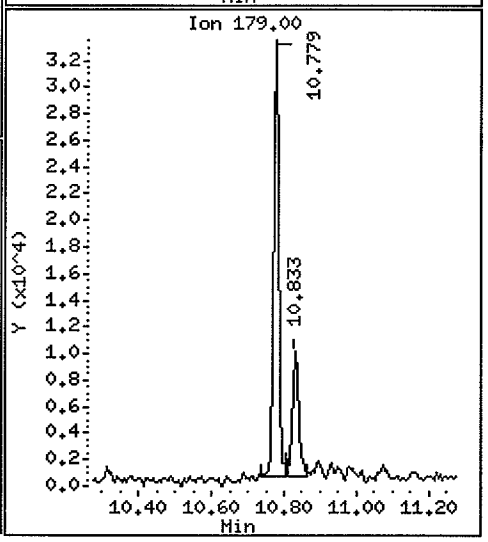












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

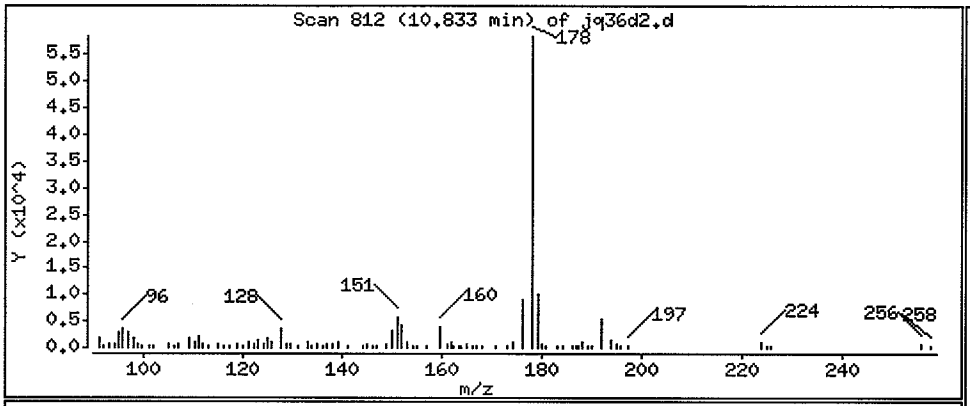
Operator: VTS

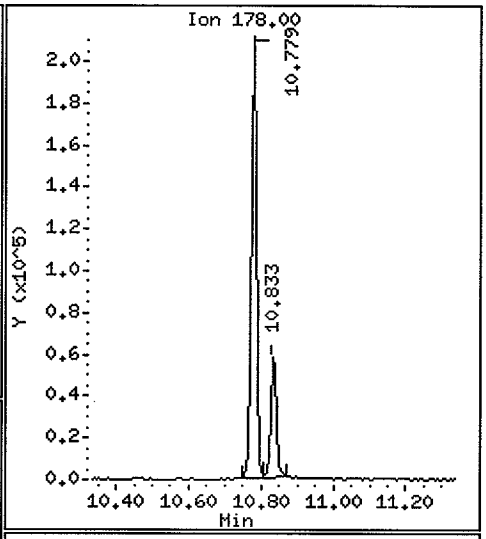
Column phase: ZB-5

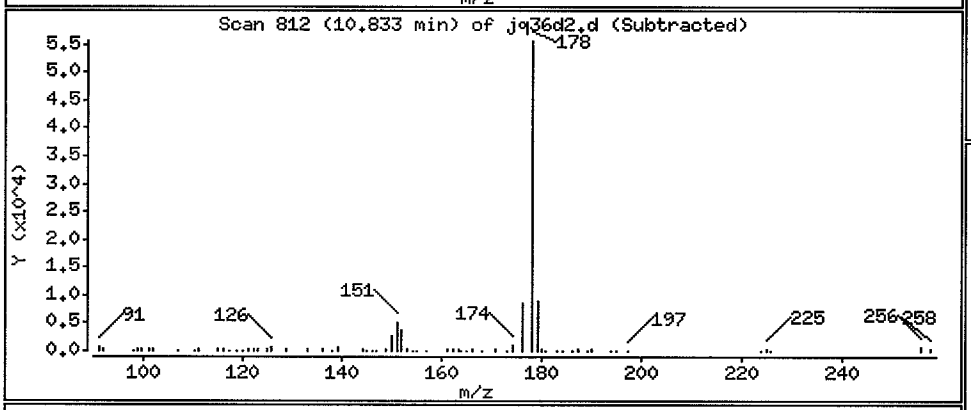
Column diameter: 0.25

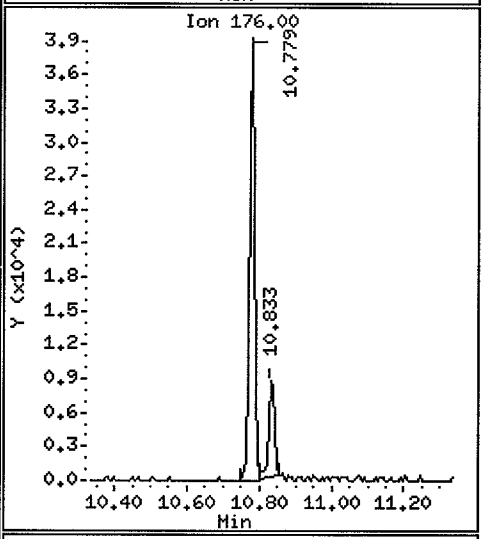
17 Anthracene

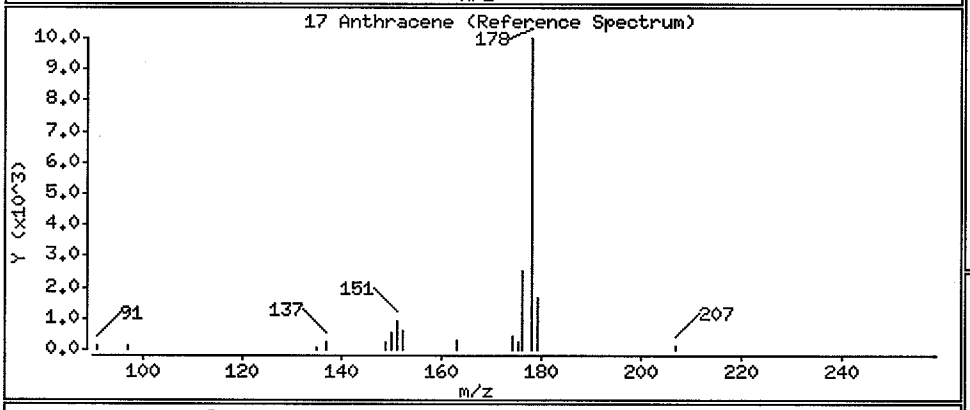
Concentration: 26.44 ug/kg

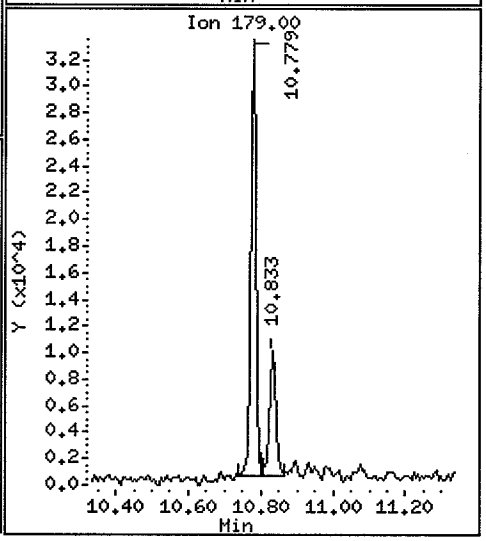


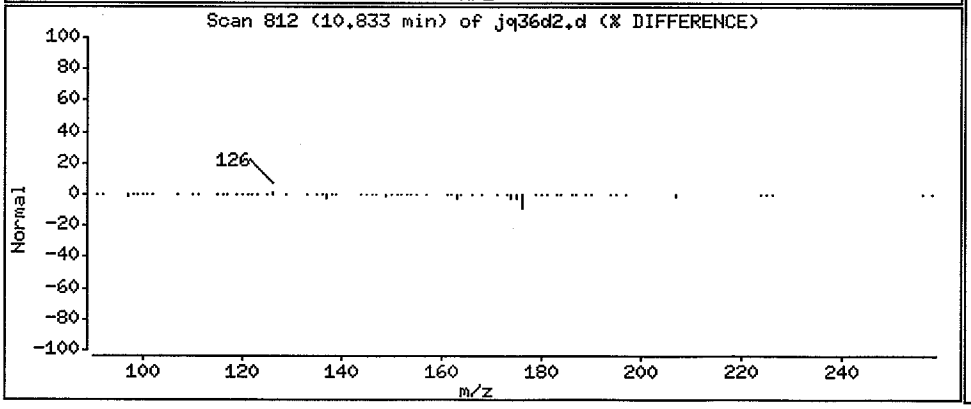












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

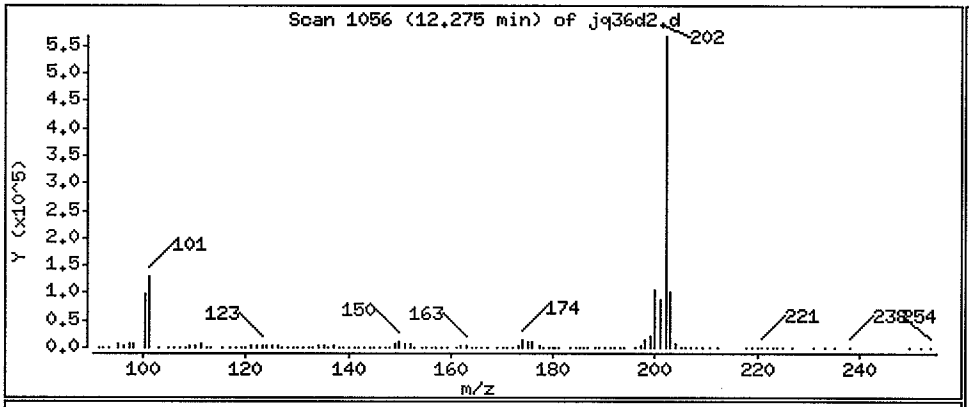
Operator: VTS

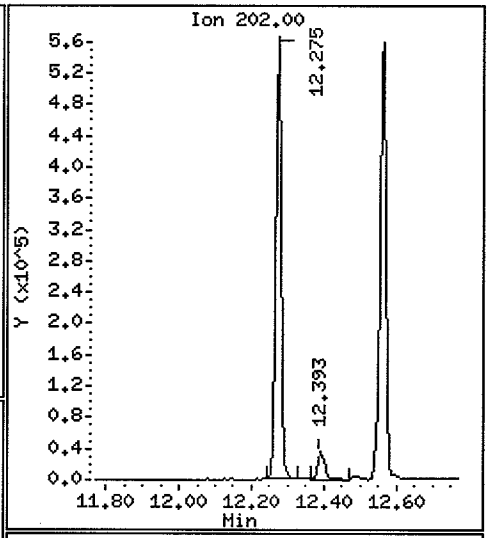
Column phase: ZB-5

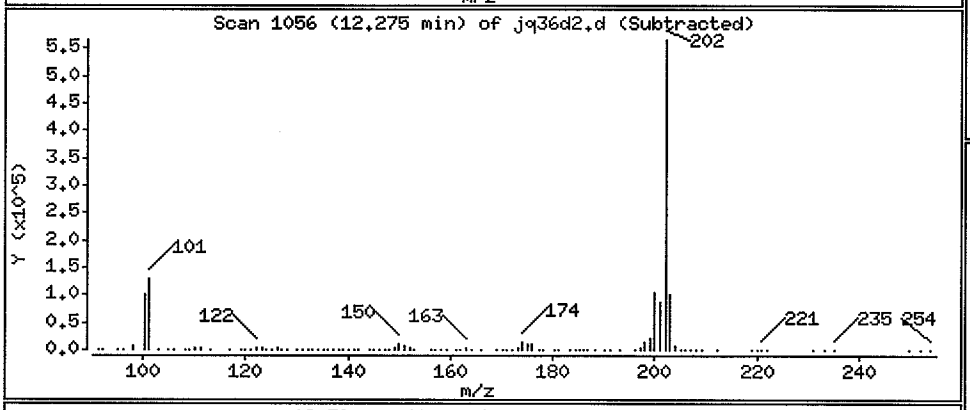
Column diameter: 0.25

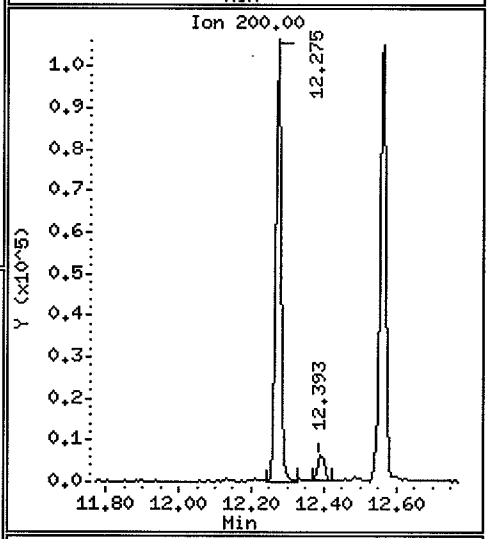
19 Fluoranthene

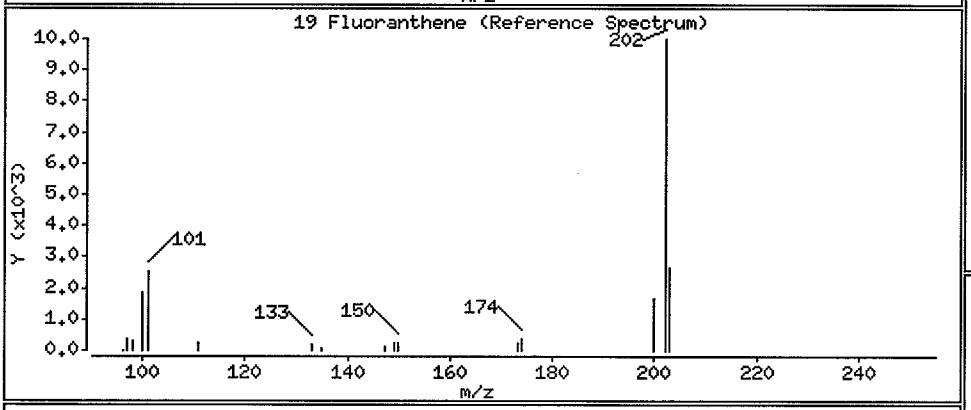
Concentration: 245.6 ug/kg

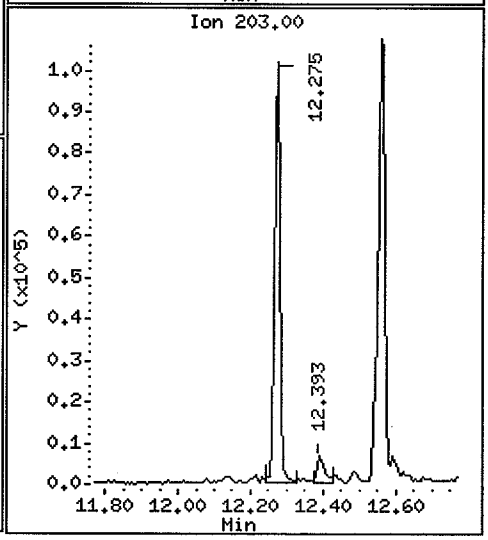


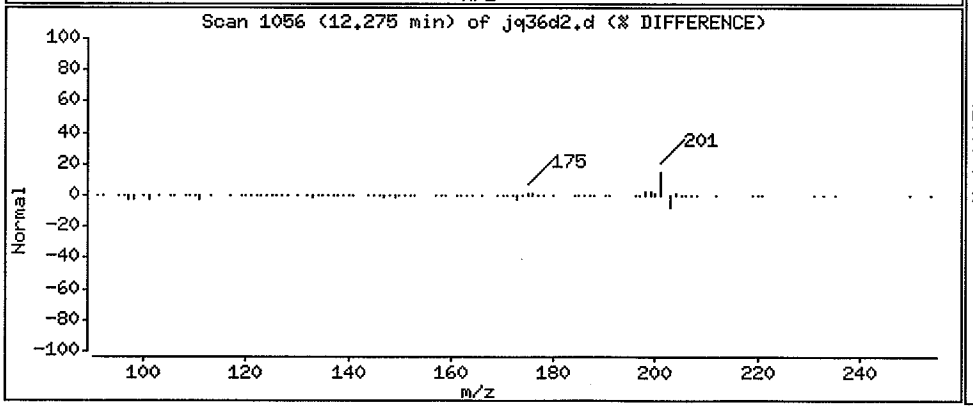












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

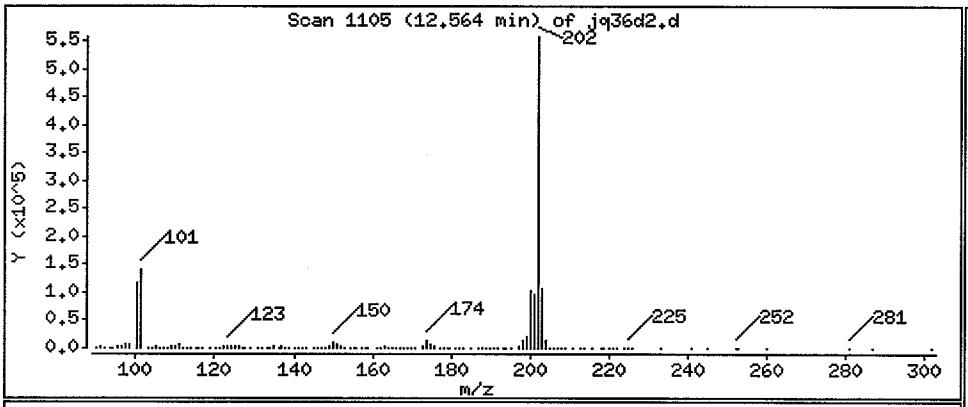
Operator: VTS

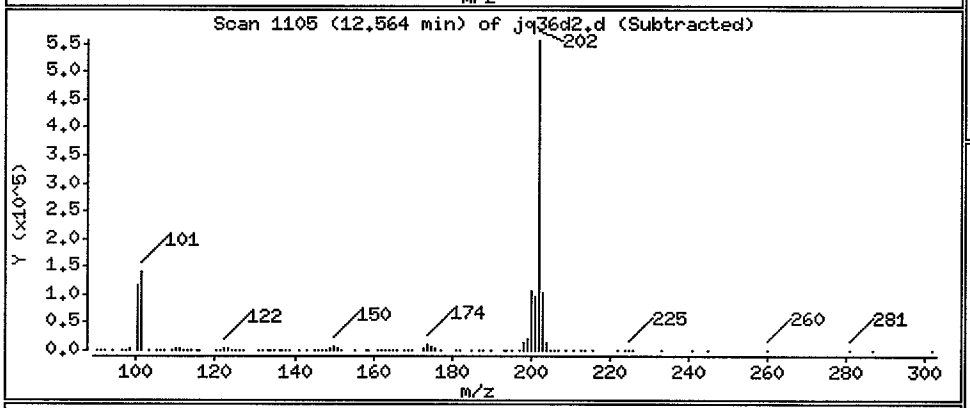
Column phase: ZB-5

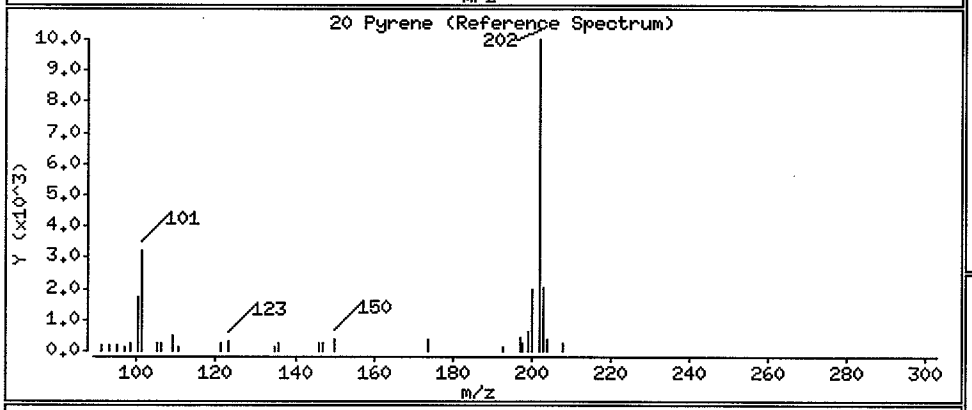
Column diameter: 0.25

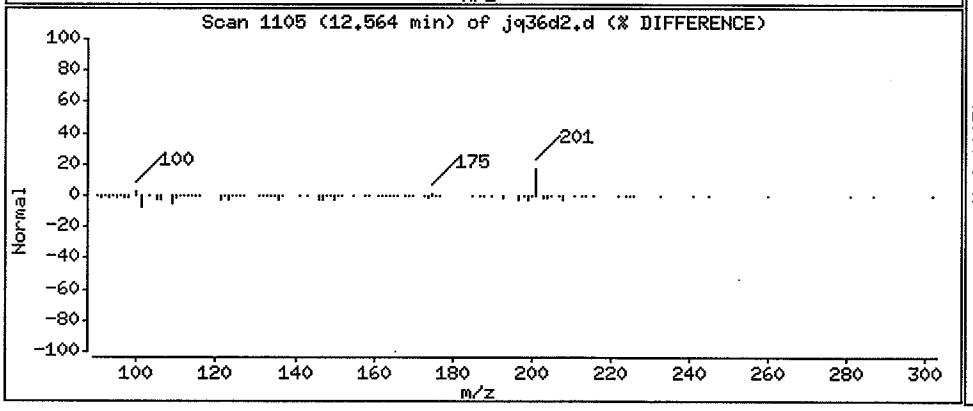
20 Pyrene

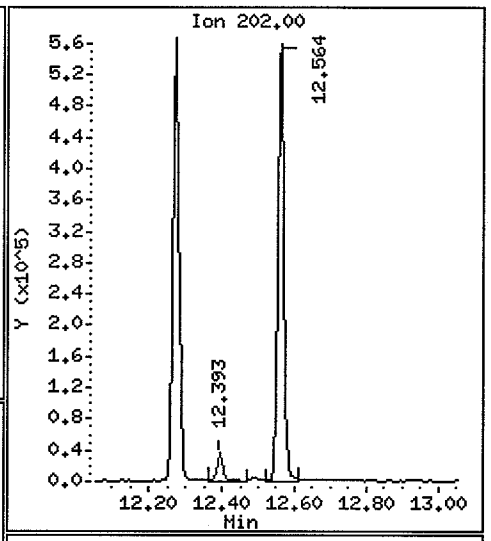
Concentration: 254.0 ug/kg

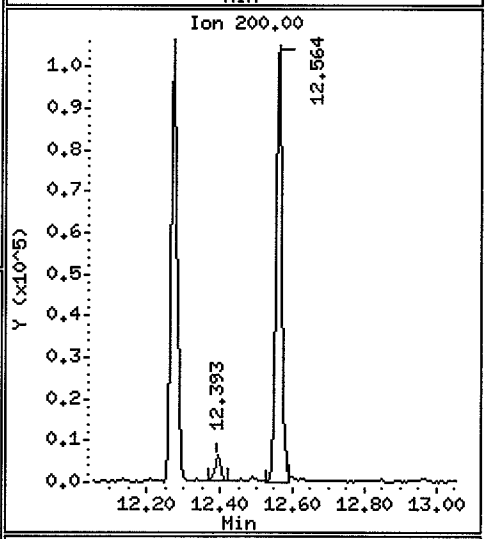


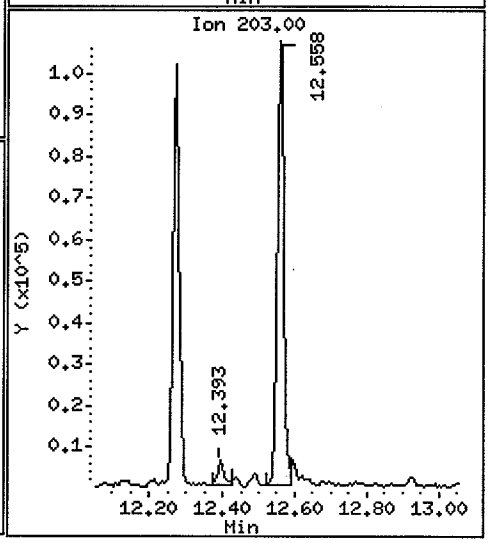












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

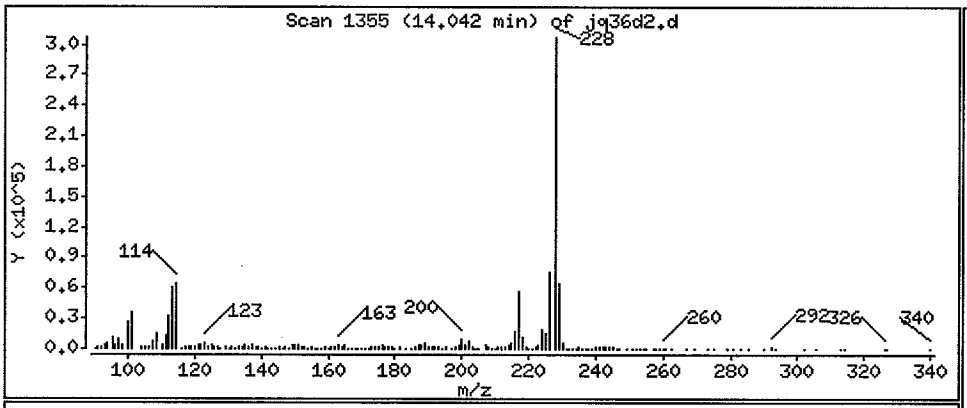
Operator: VTS

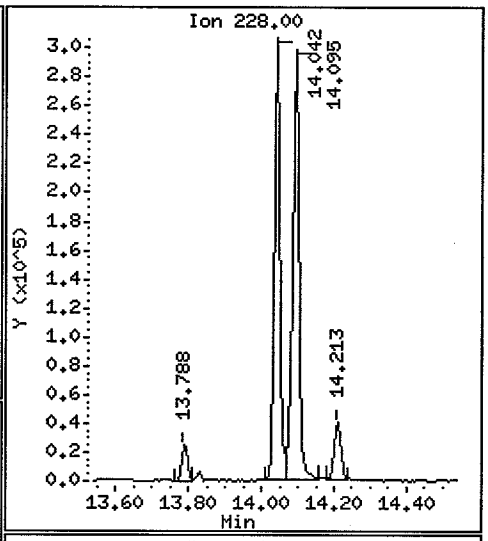
Column phase: ZB-5

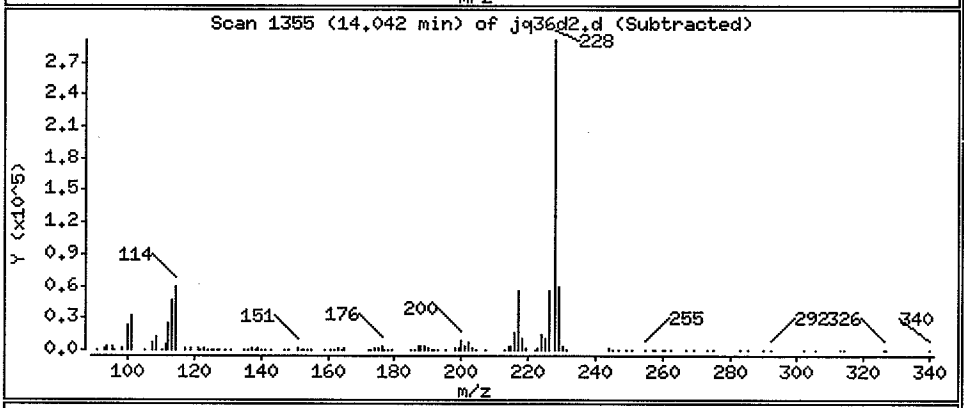
Column diameter: 0.25

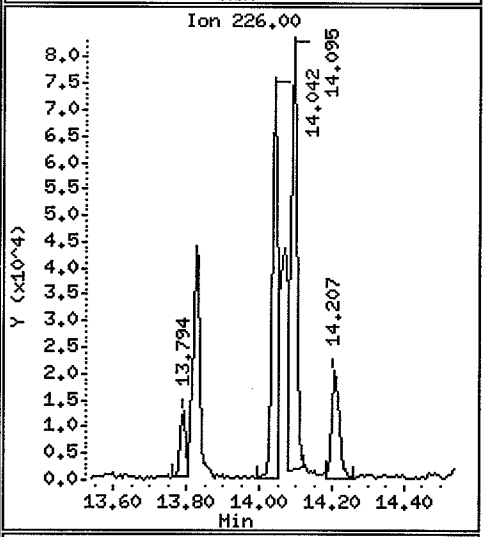
22 Benzo(a)anthracene

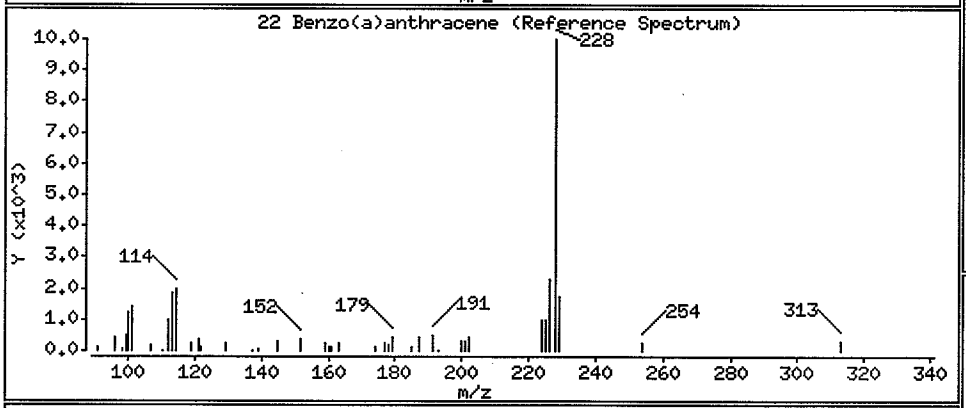
Concentration: 136.8 ug/kg

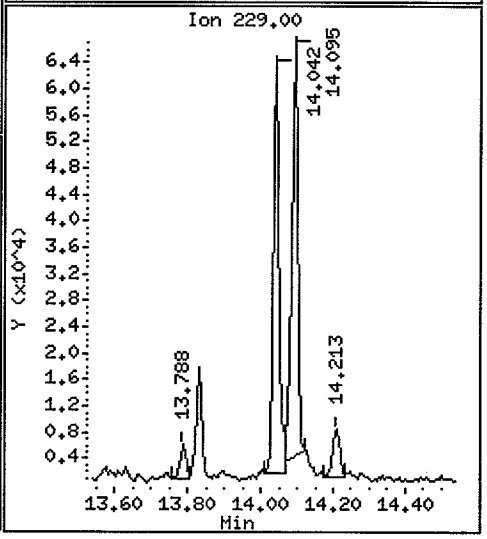


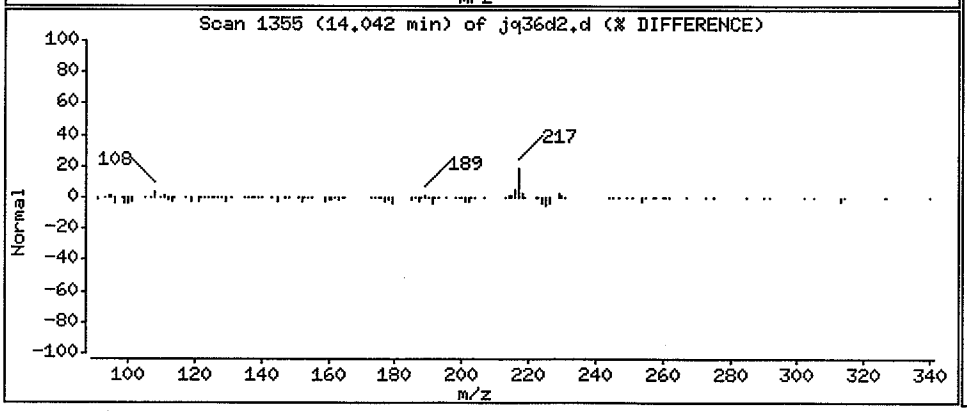












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

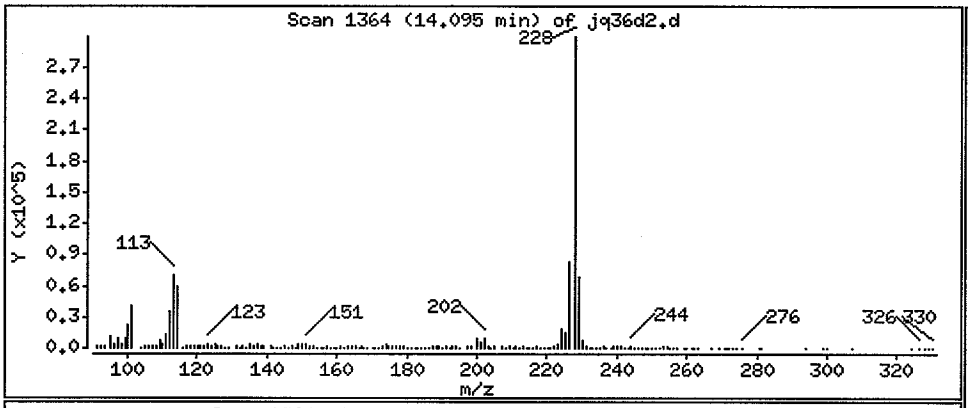
Operator: VTS

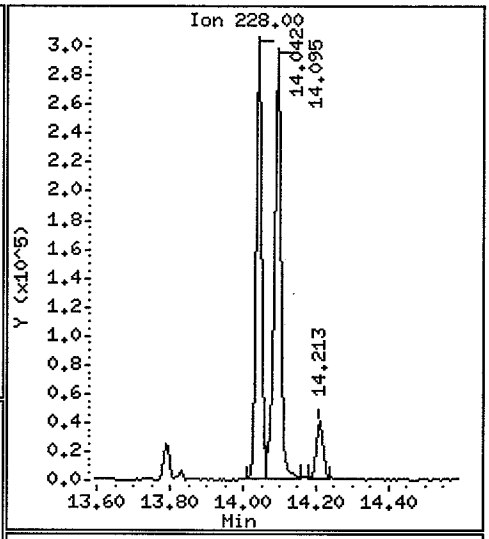
Column phase: ZB-5

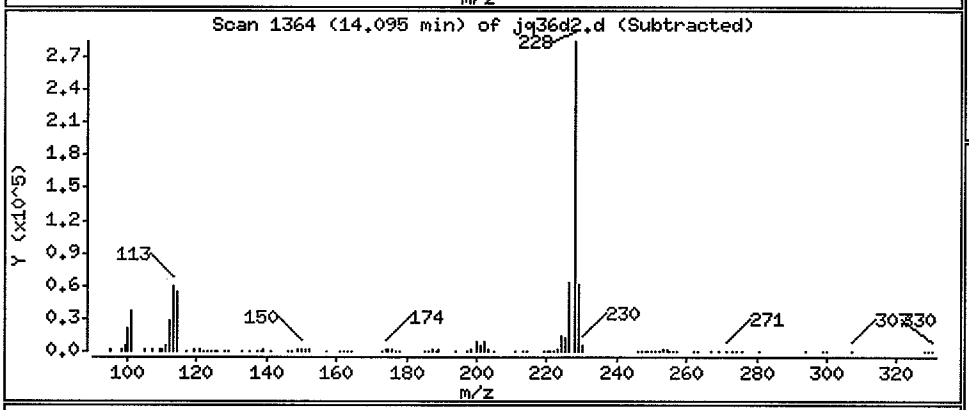
Column diameter: 0.25

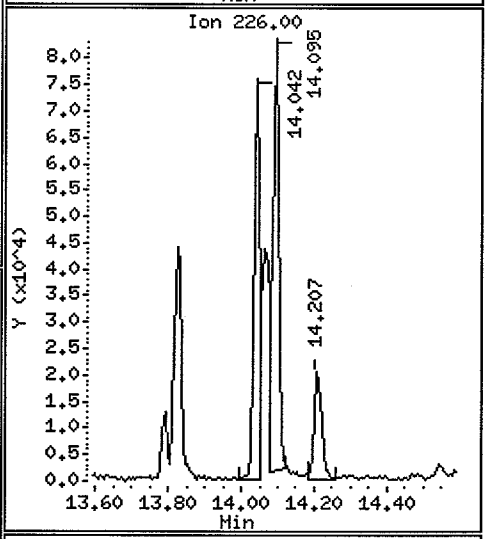
24 Chrysene

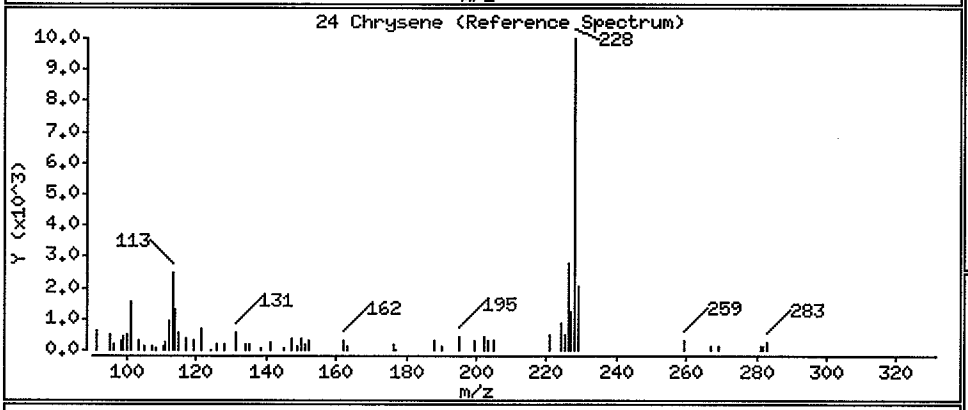
Concentration: 170.2 ug/kg

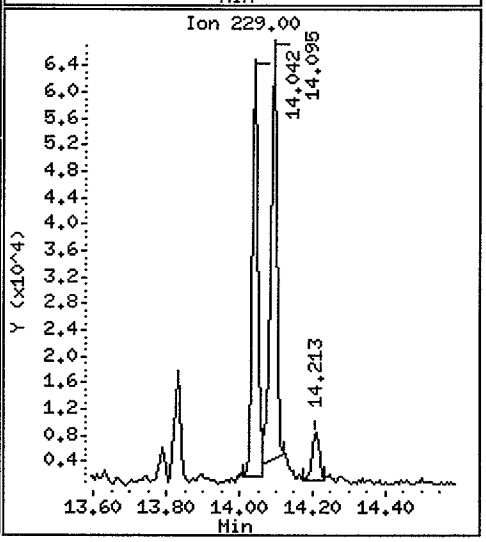


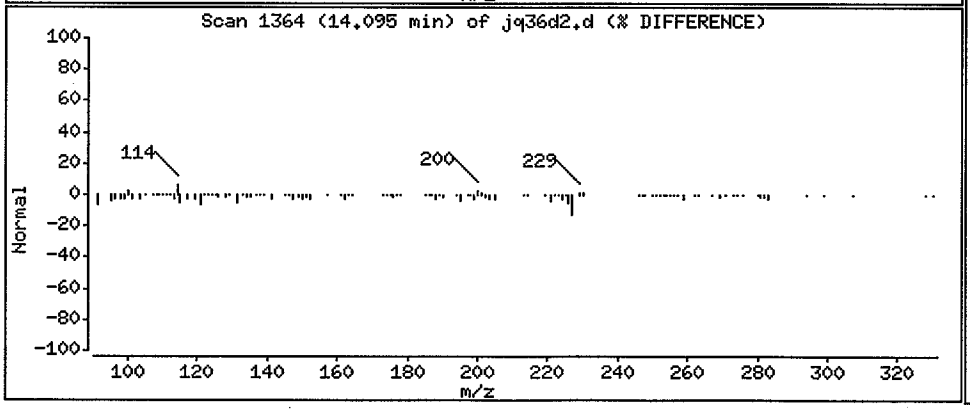












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

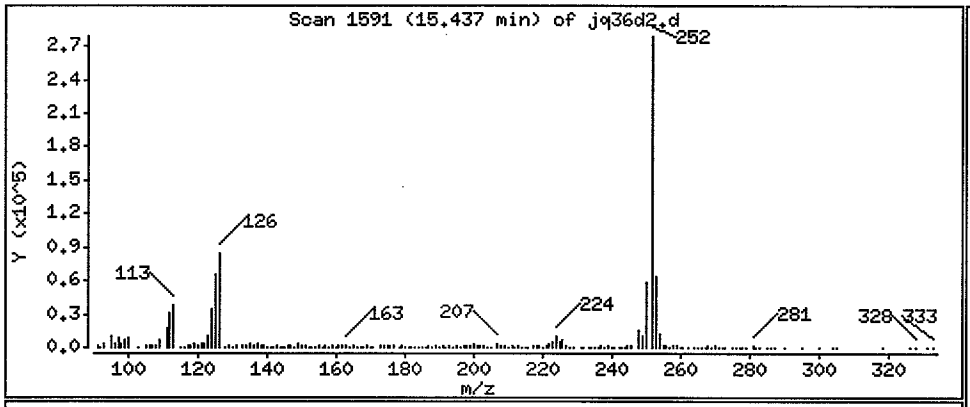
Operator: VTS

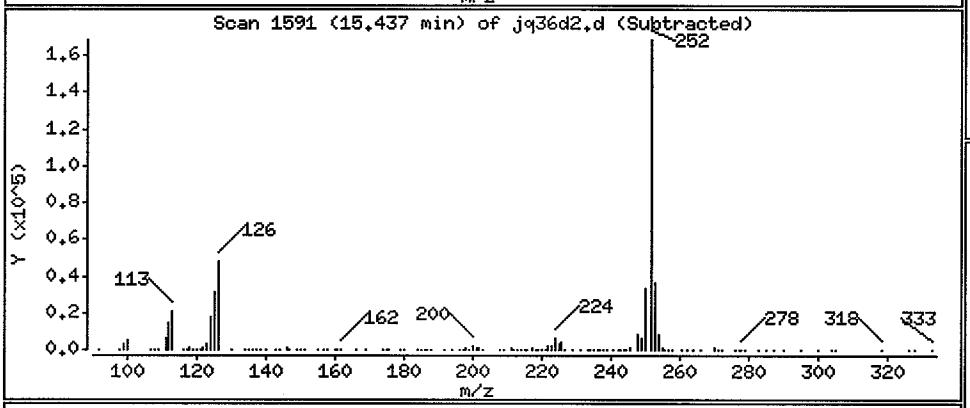
Column phase: ZB-5

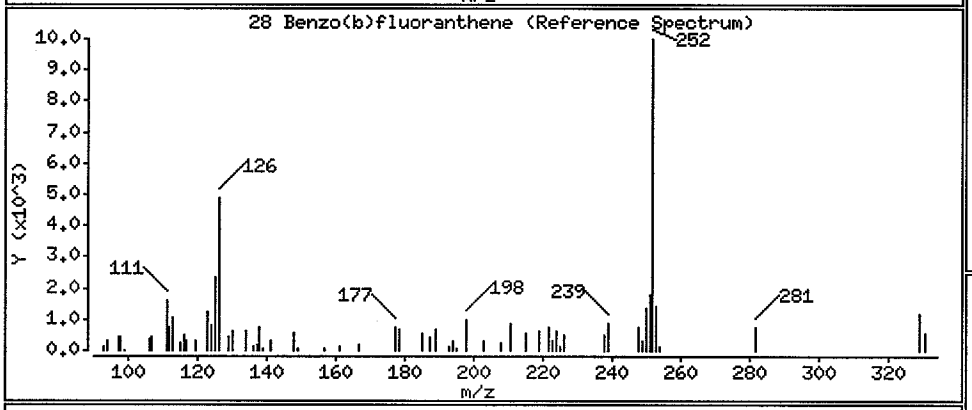
Column diameter: 0.25

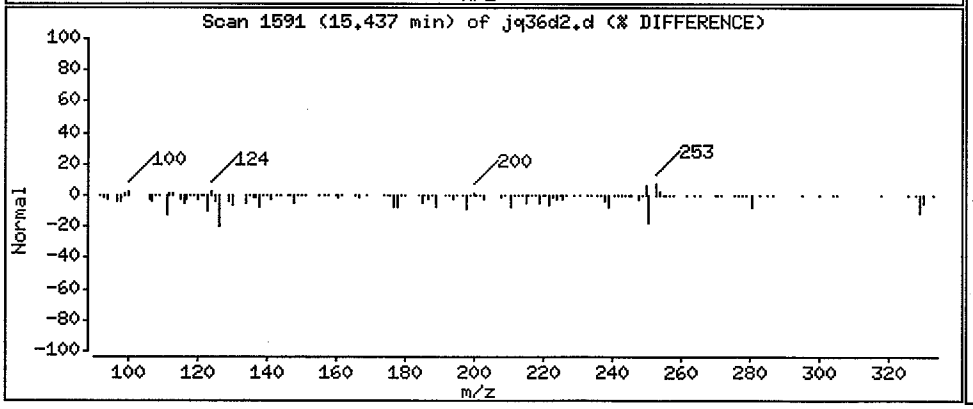
28 Benzo(b)fluoranthene

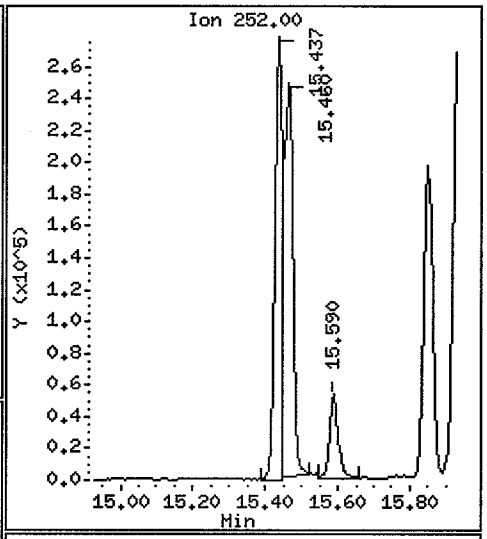
Concentration: 165.3 ug/kg

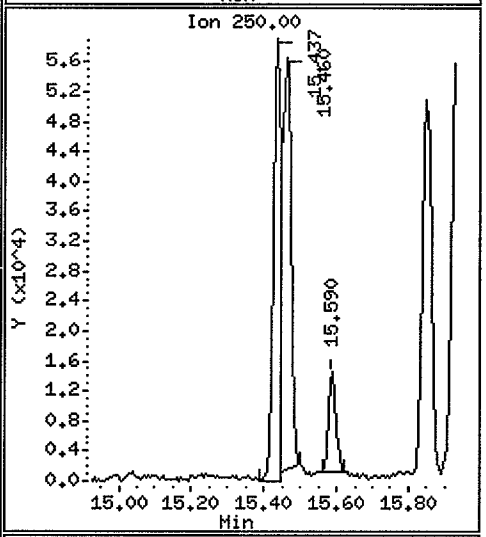


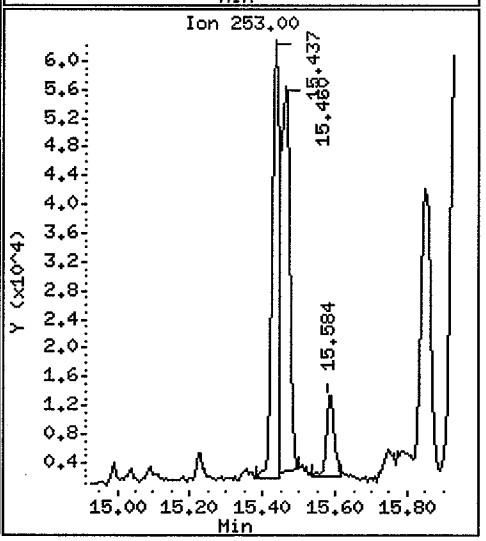












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

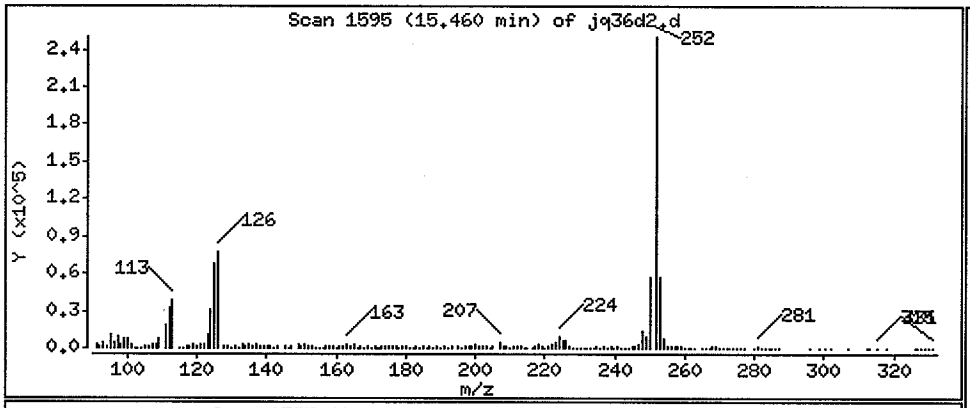
Operator: VTS

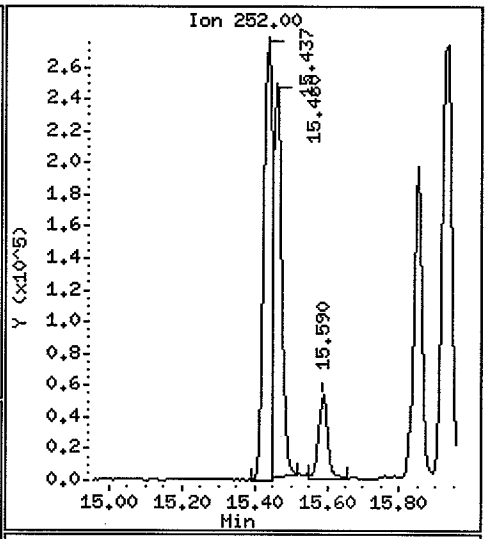
Column phase: ZB-5

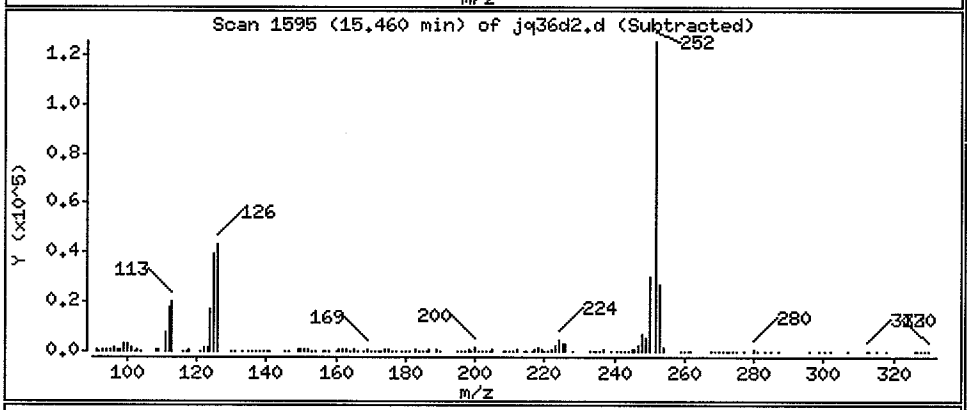
Column diameter: 0.25

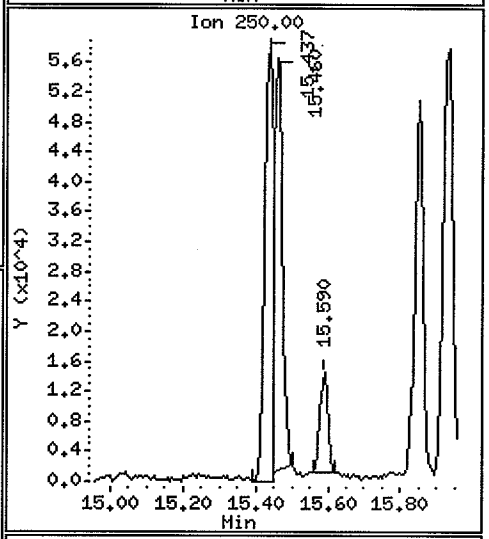
29 Benzo(k)fluoranthene

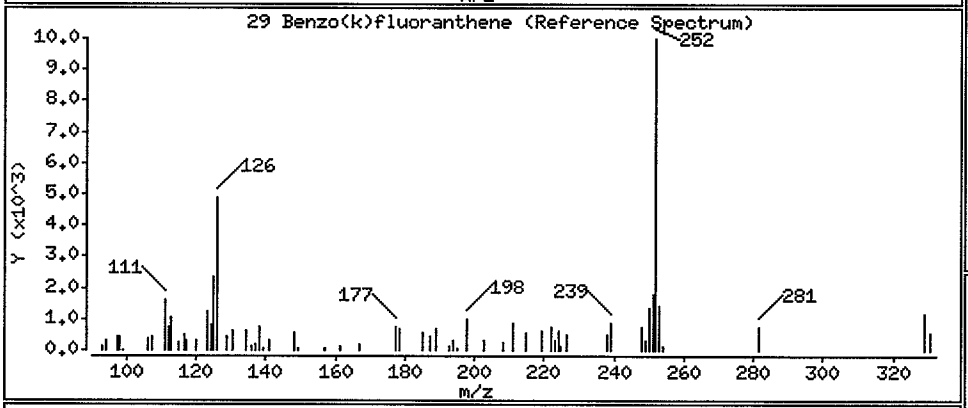
Concentration: 158.9 ug/kg

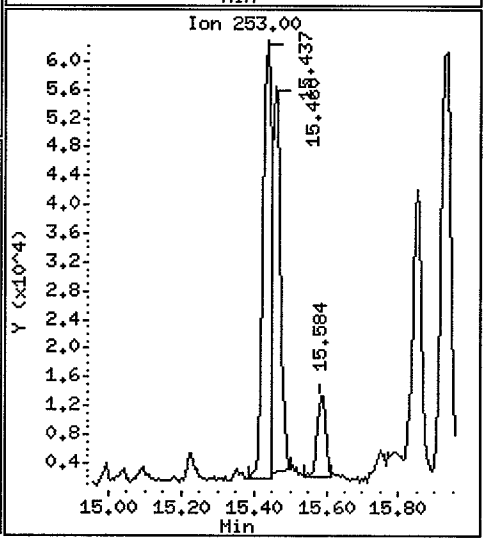


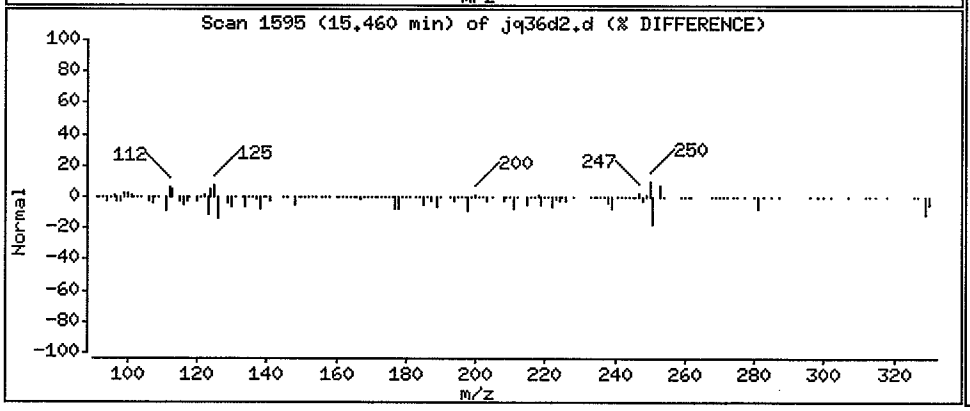












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

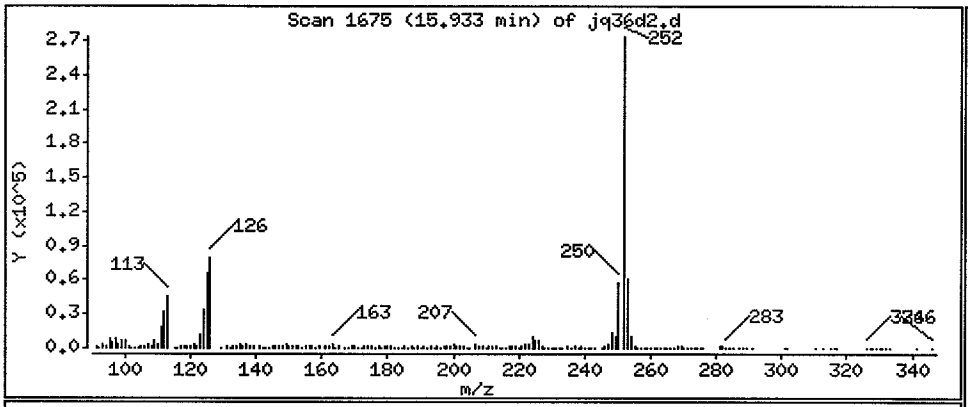
Operator: VTS

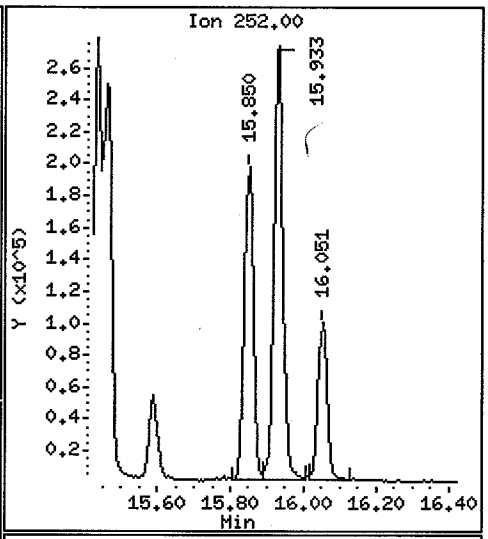
Column phase: ZB-5

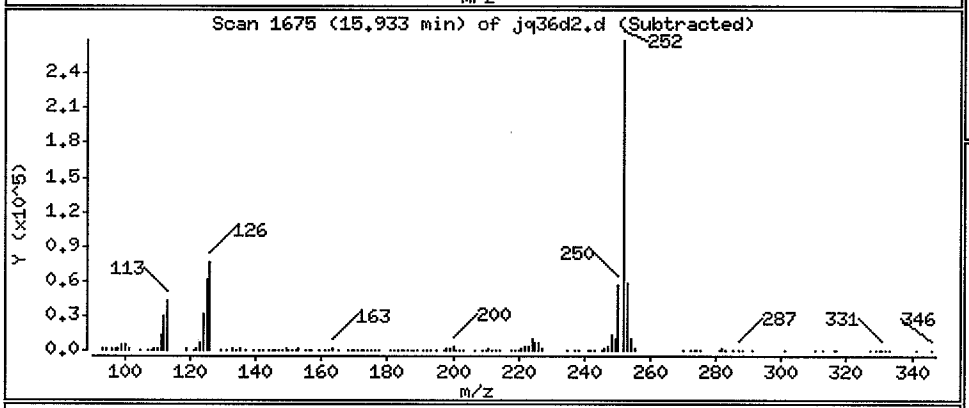
Column diameter: 0.25

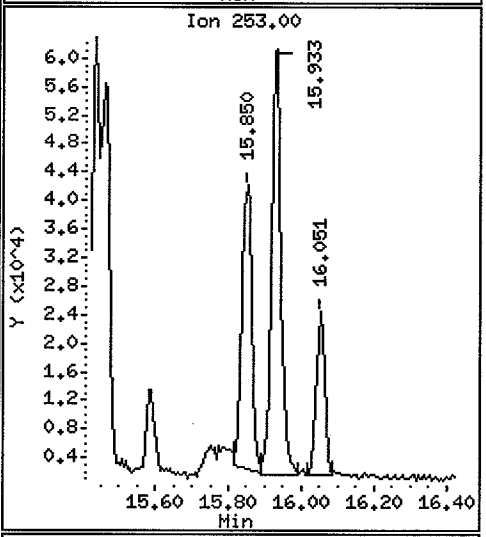
30 Benzo(a)pyrene

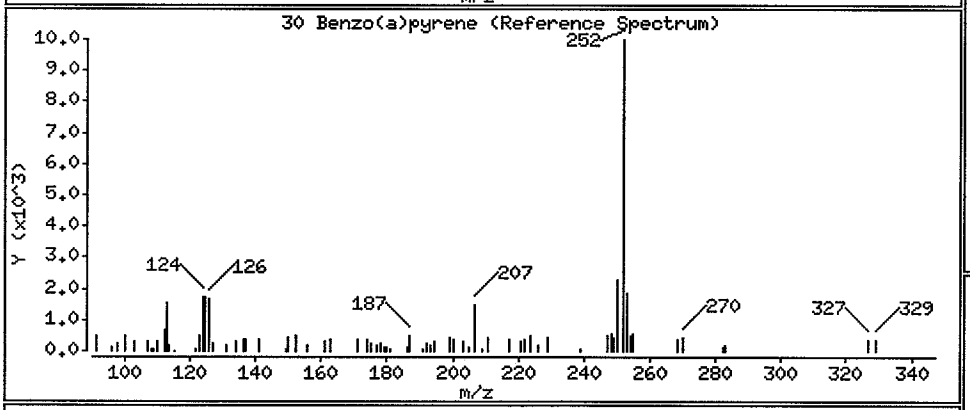
Concentration: 190.3 ug/kg

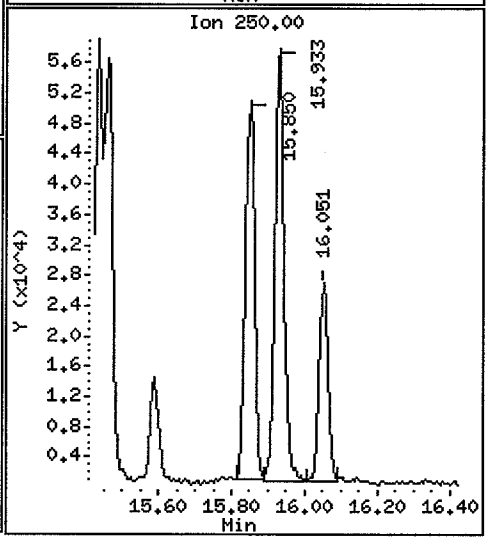


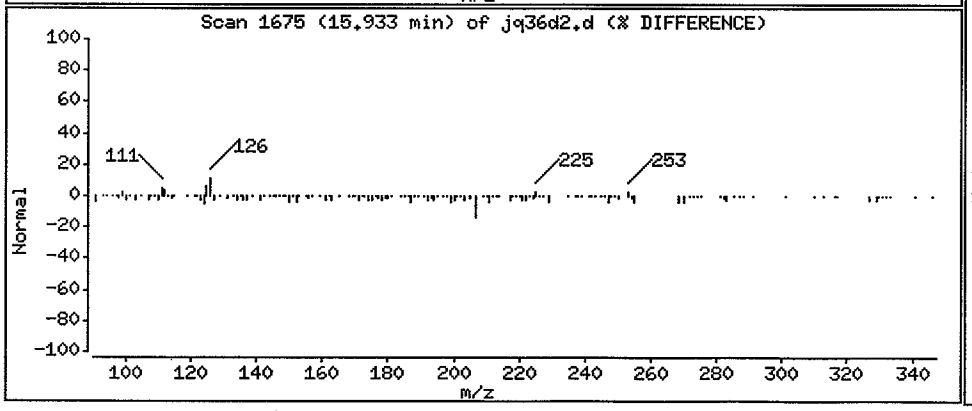












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

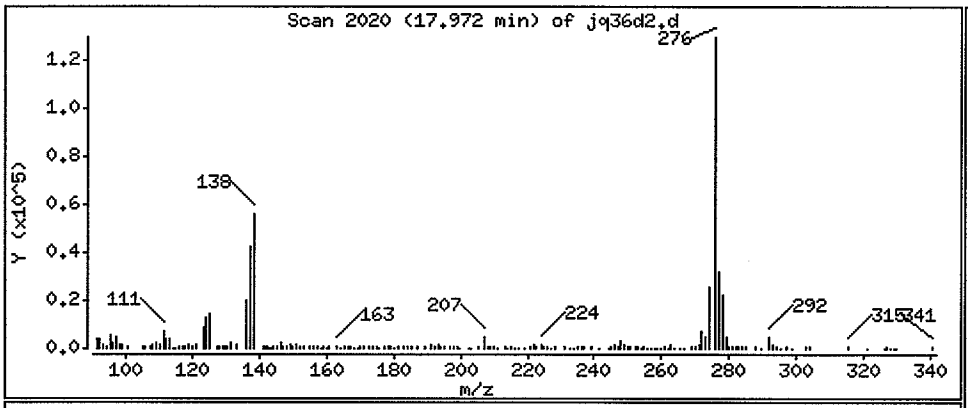
Operator: VTS

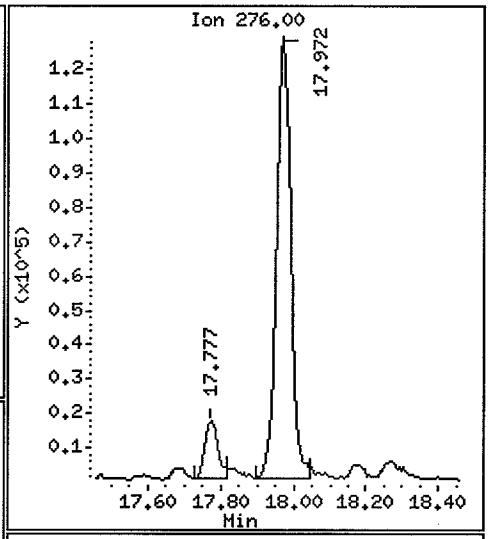
Column phase: ZB-5

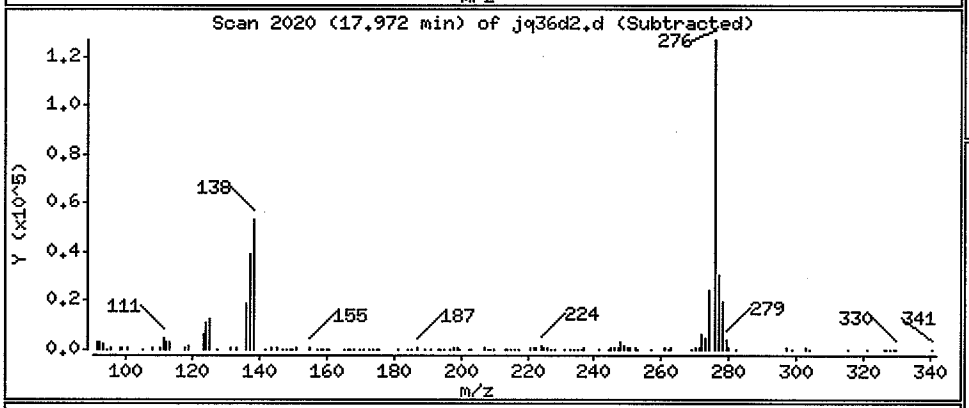
Column diameter: 0.25

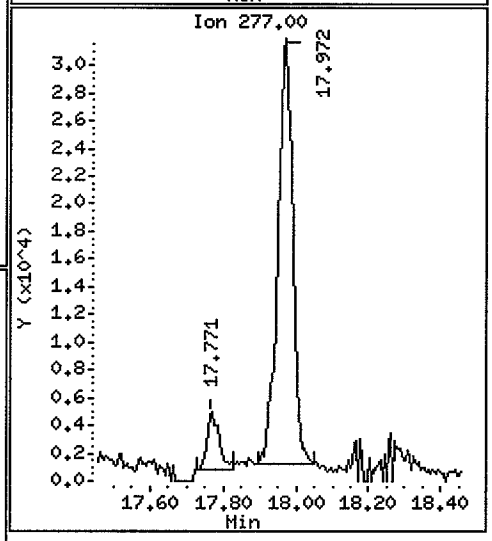
33 Indeno(1,2,3-cd)pyrene

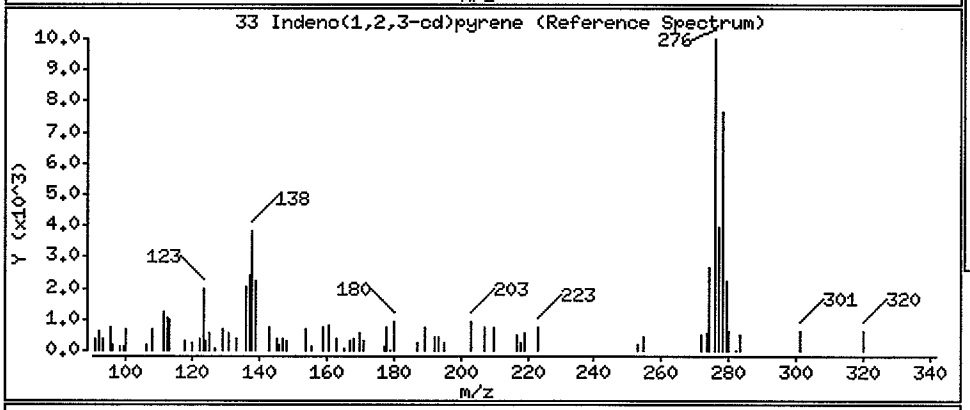
Concentration: 119.5 ug/kg

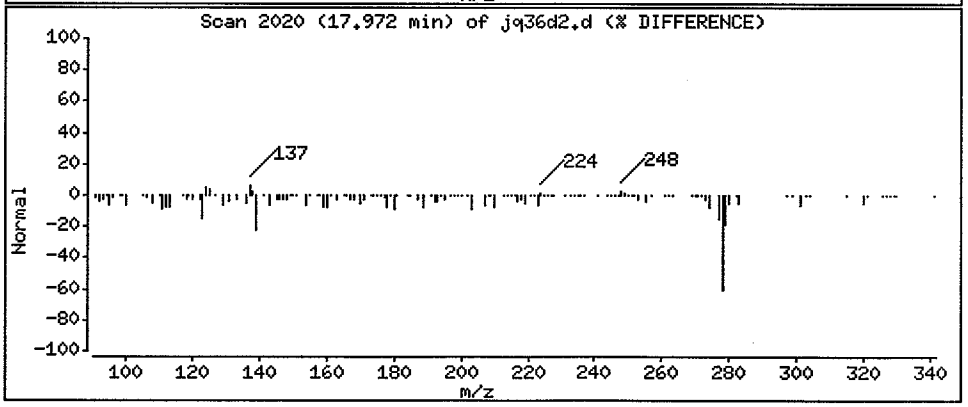












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

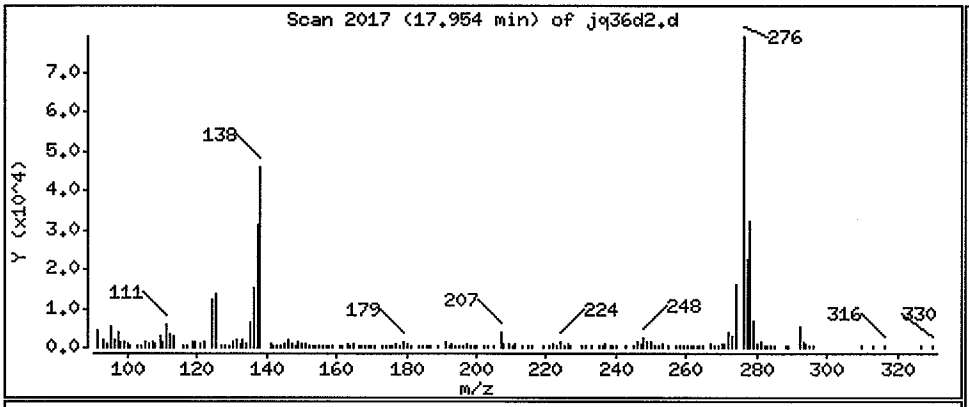
Operator: VTS

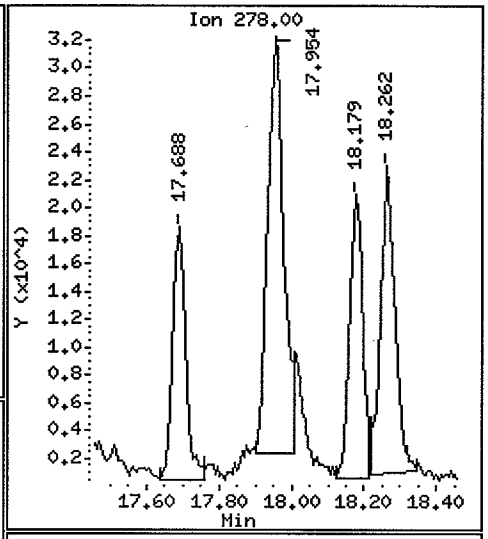
Column phase: ZB-5

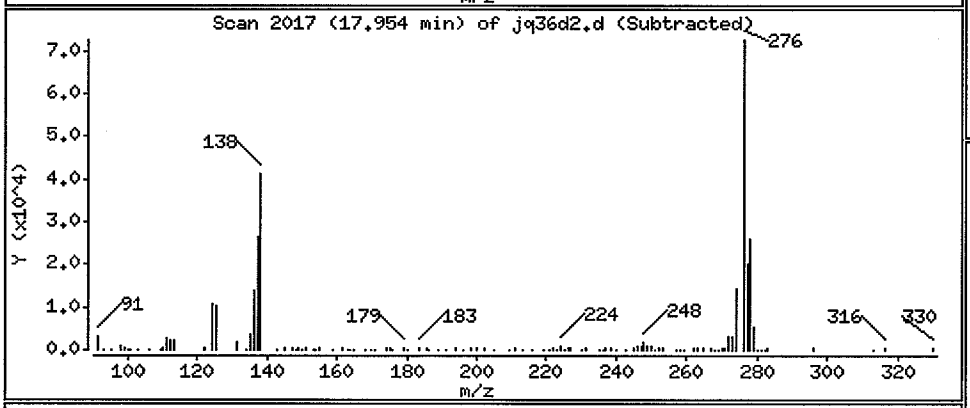
Column diameter: 0.25

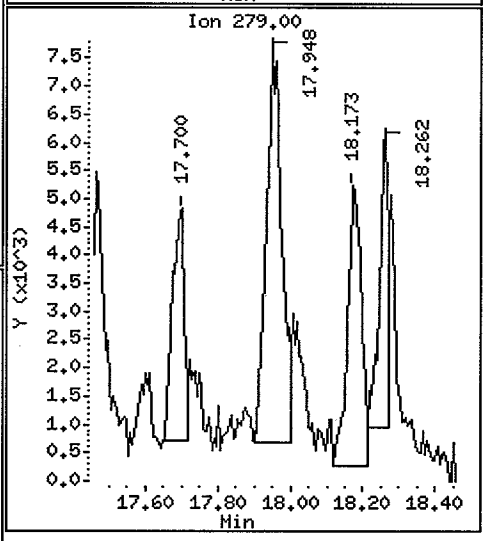
34 Dibenz(a,h)anthracene

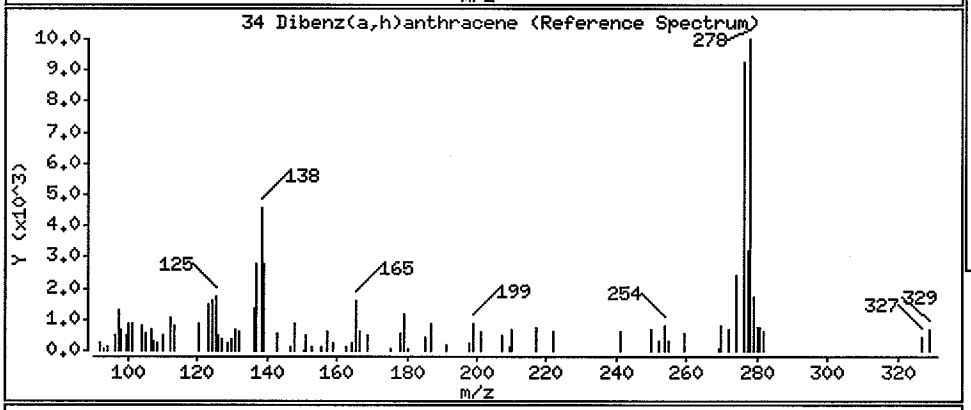
Concentration: 39.04 ug/kg

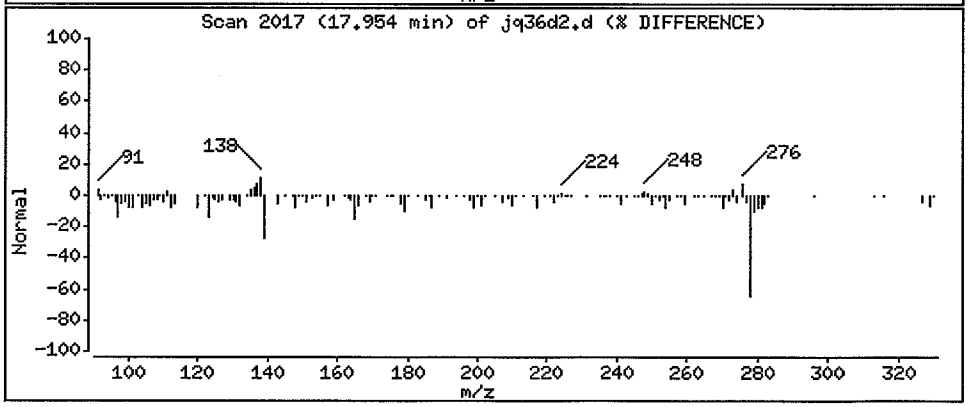












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

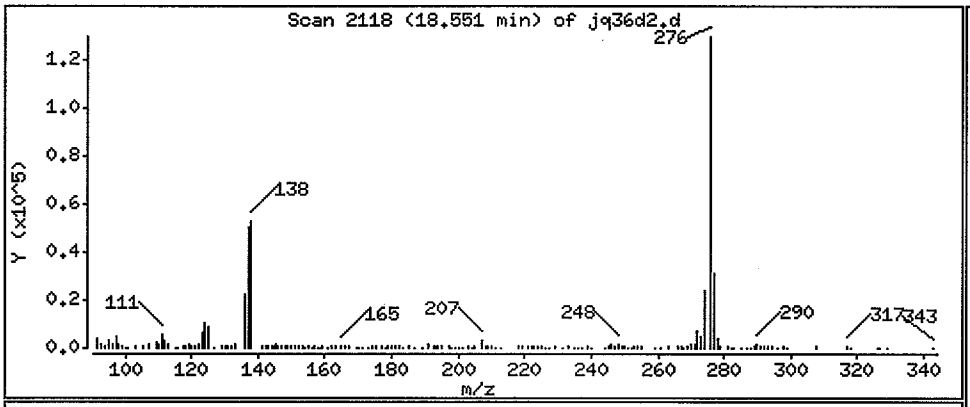
Operator: VTS

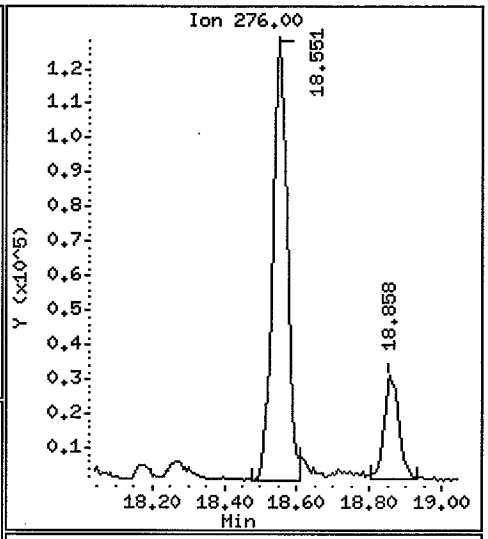
Column phase: ZB-5

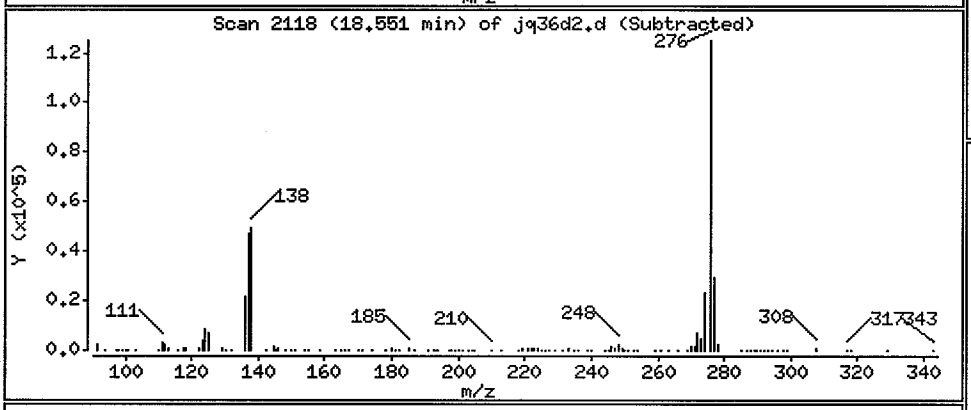
Column diameter: 0.25

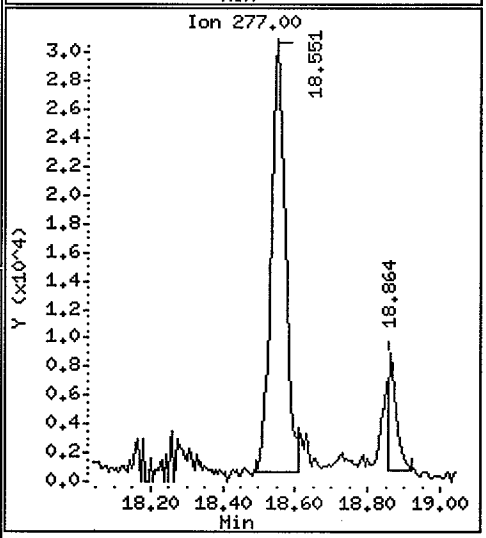
35 Benzo(g,h,i)perylene

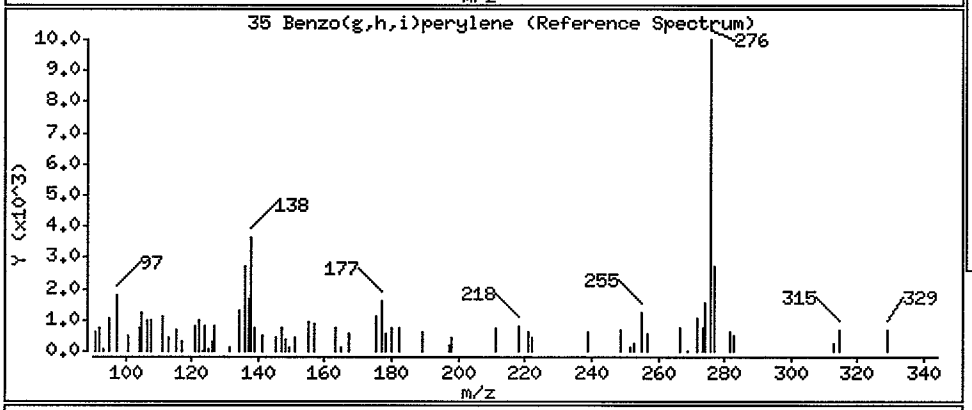
Concentration: 145.0 ug/kg

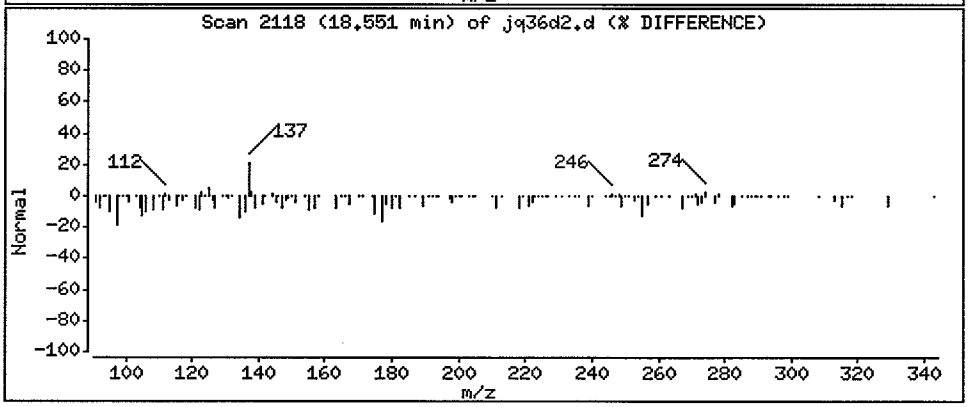












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

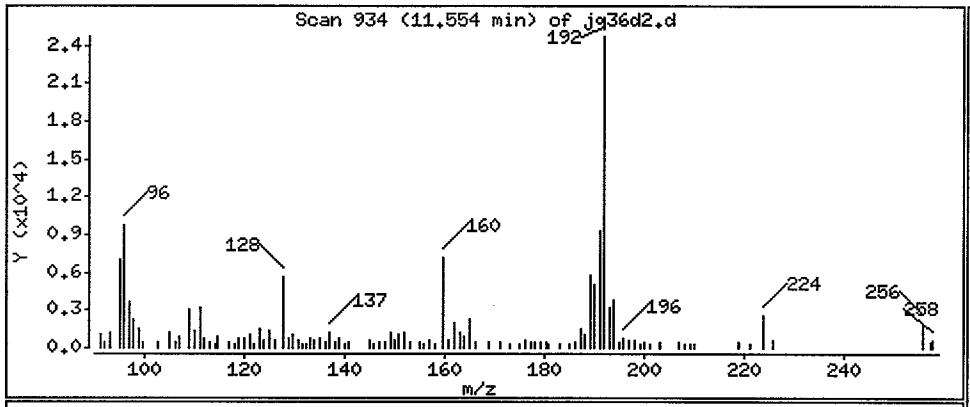
Operator: VTS

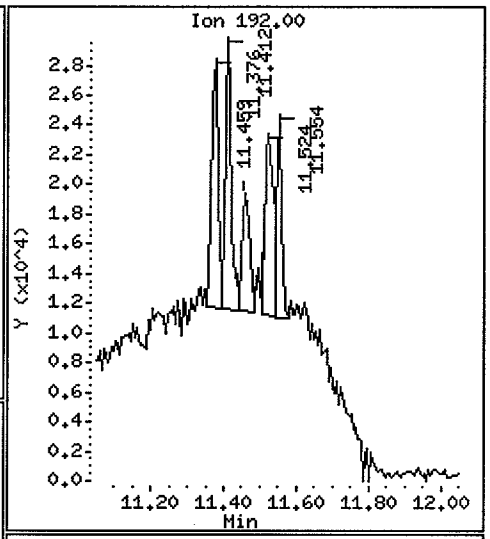
Column phase: ZB-5

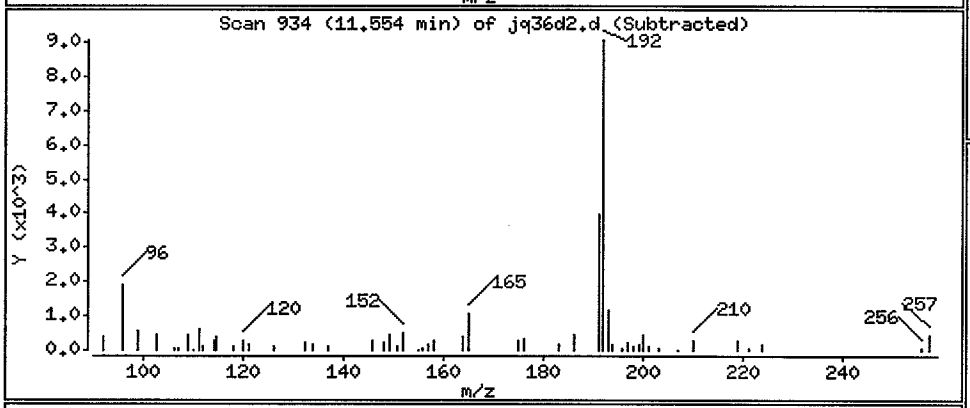
Column diameter: 0.25

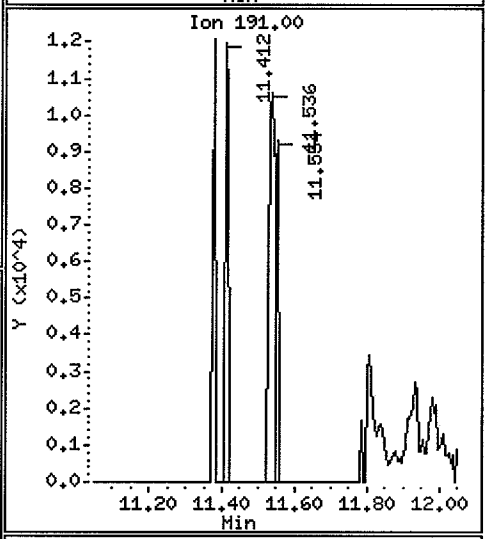
51 1-Methylphenanthrene

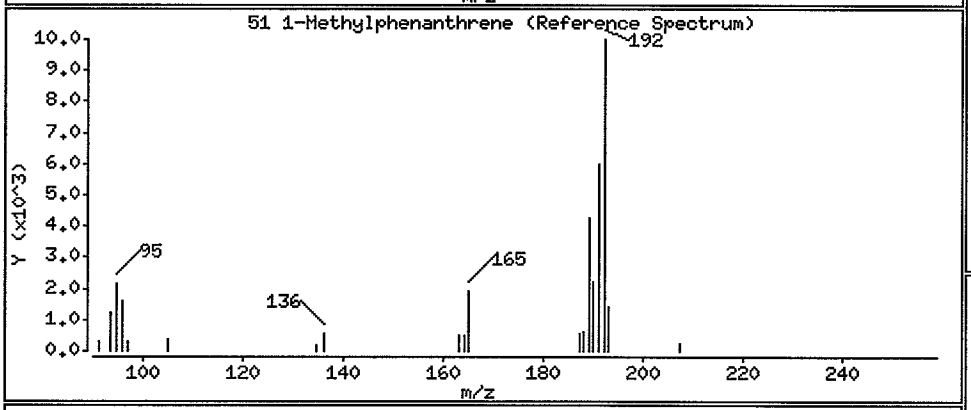
Concentration: 8.527 ug/kg

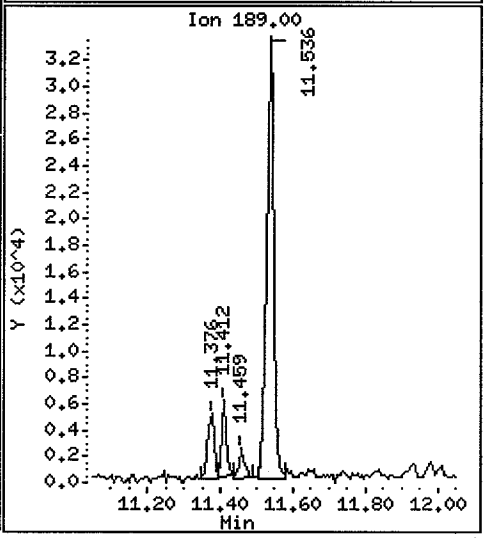


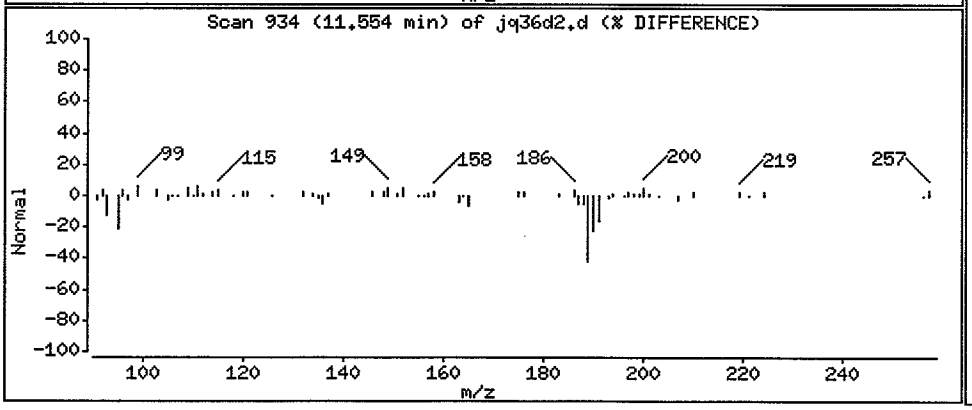












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

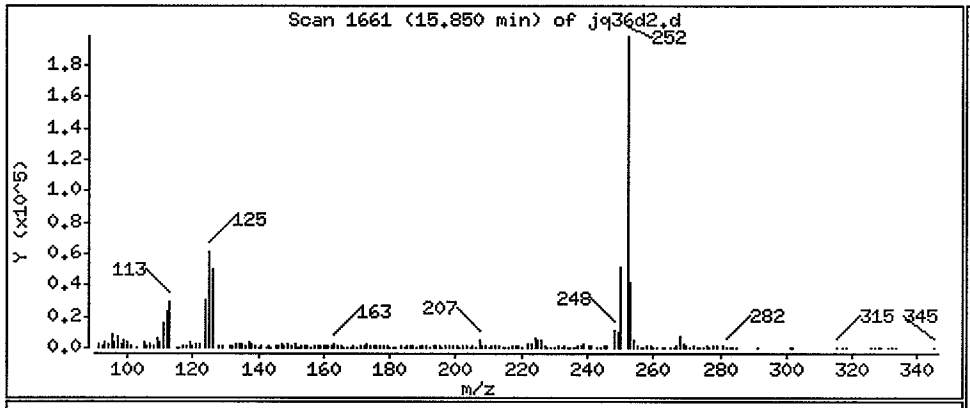
Operator: VTS

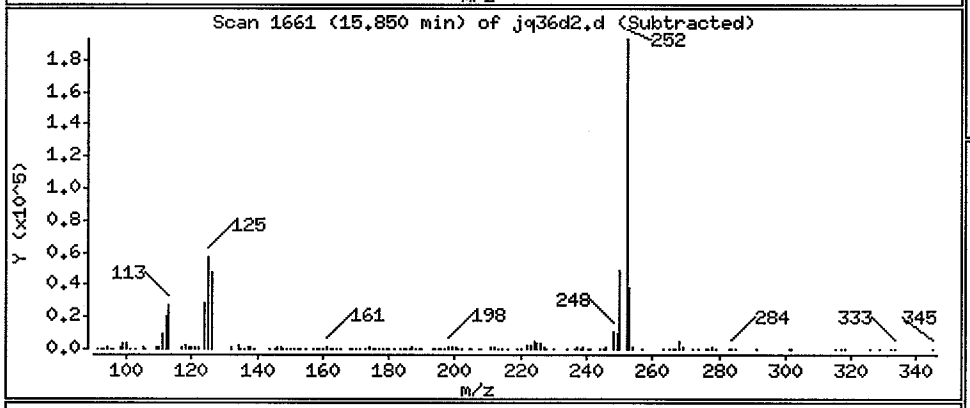
Column phase: ZB-5

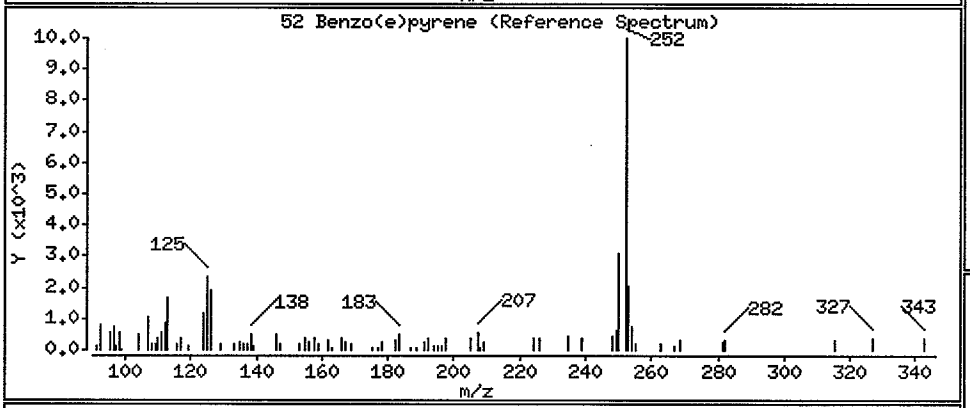
Column diameter: 0.25

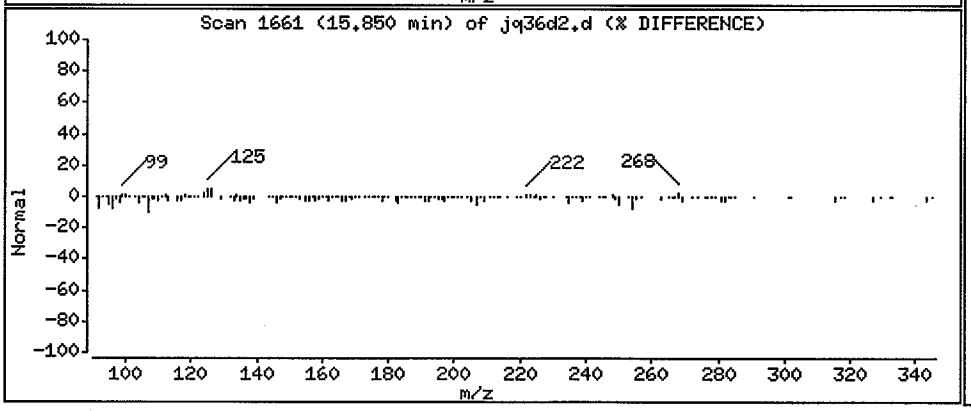
52 Benzo(e)pyrene

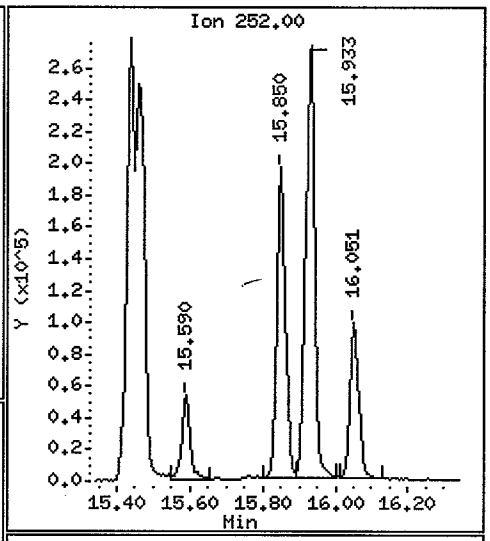
Concentration: 116.3 ug/kg

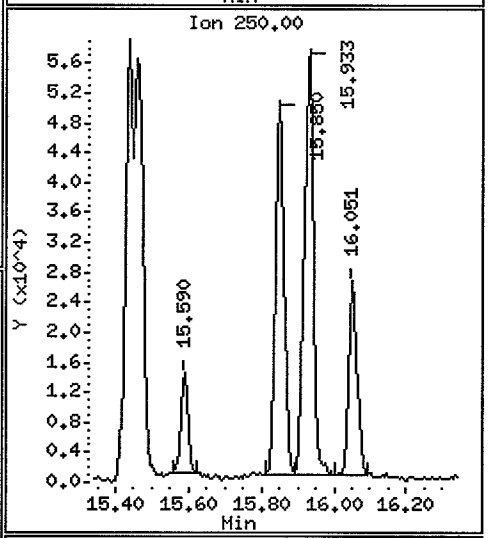


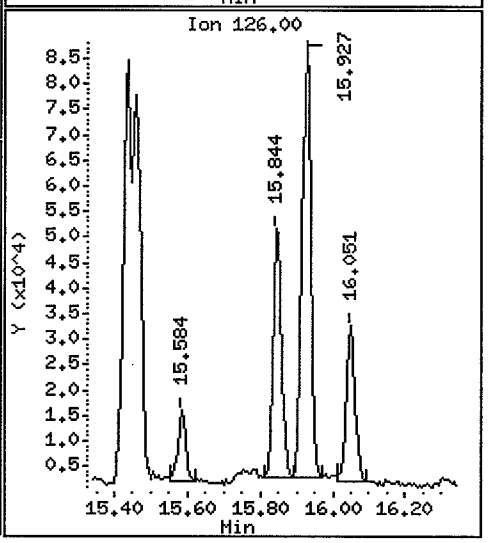












Data File: /chem3/nt1.i/20060809.b/jq36d2.d

Date : 09-AUG-2006 11:28

Client ID: T4-S3-07-E

Instrument: nt1.i

Sample Info: JQ36D

Volume Injected (uL): 1.0

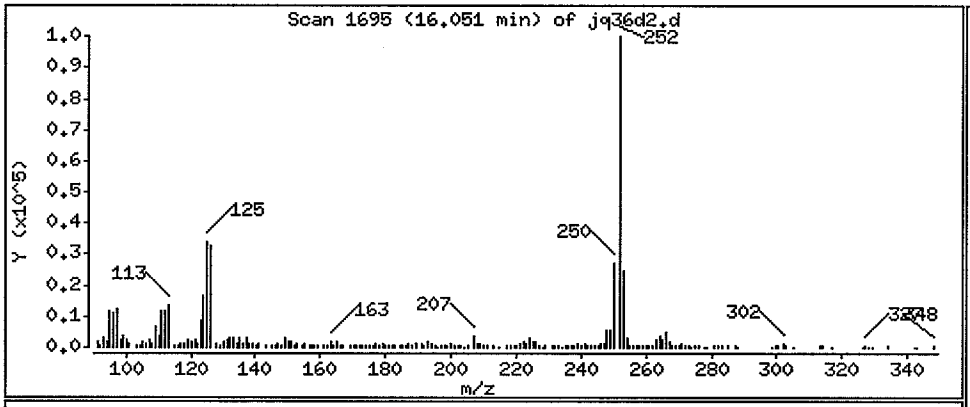
Operator: VTS

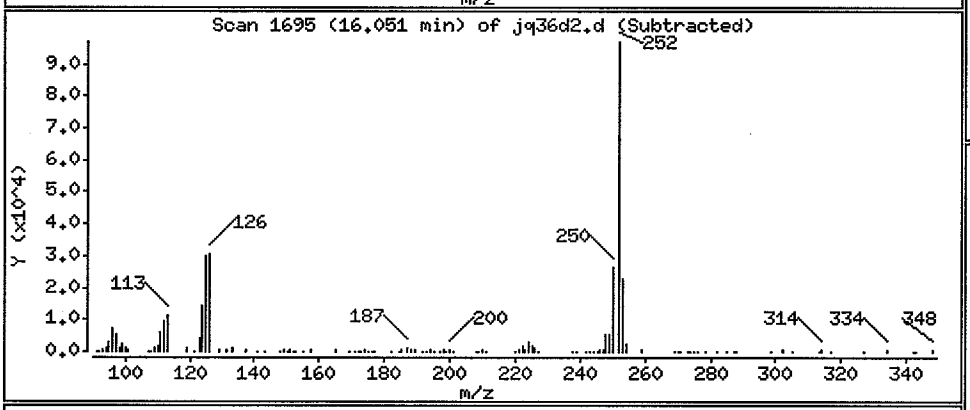
Column phase: ZB-5

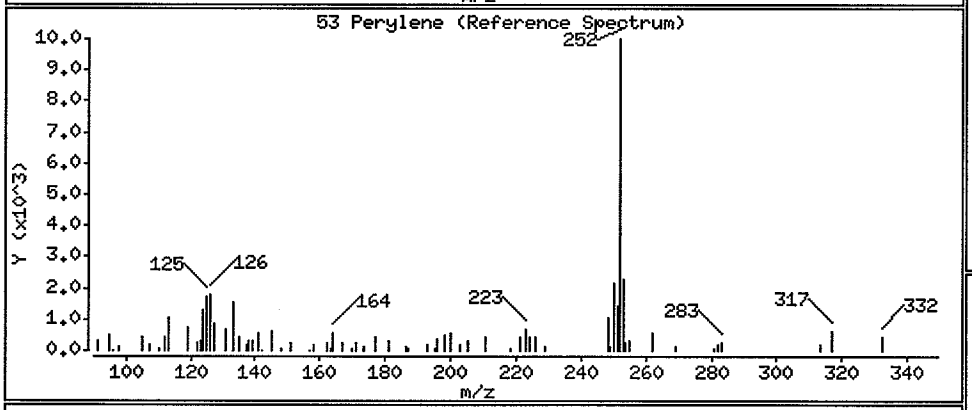
Column diameter: 0.25

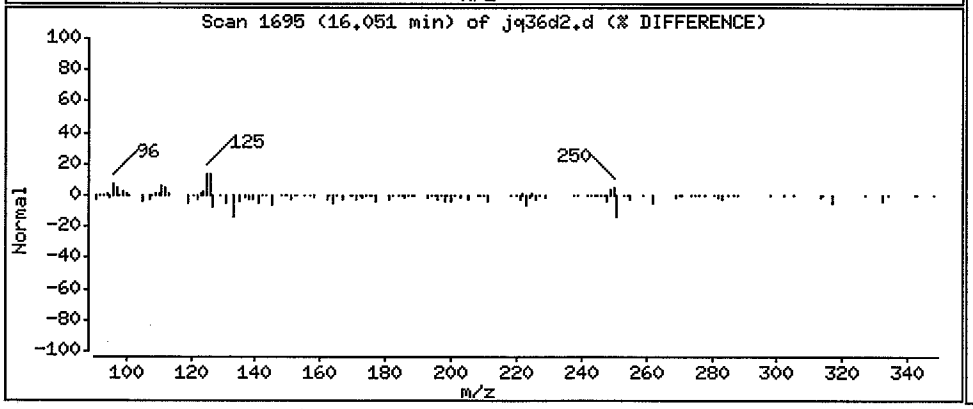
53 Perylene

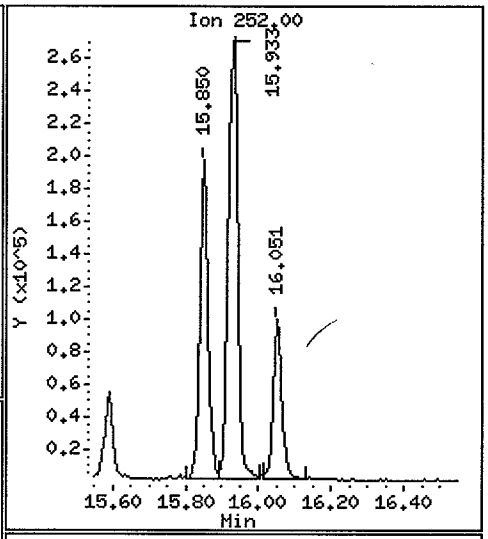
Concentration: 63.90 ug/kg

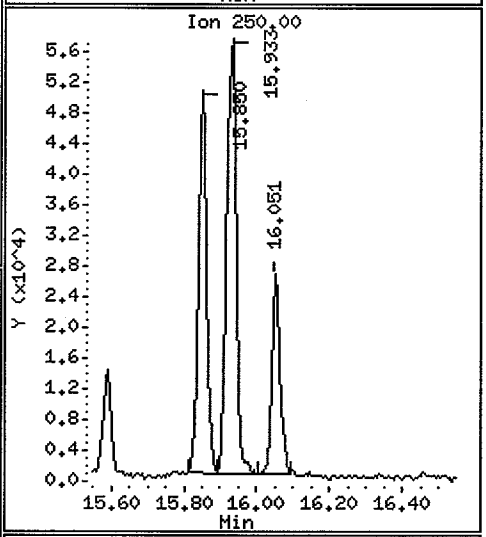


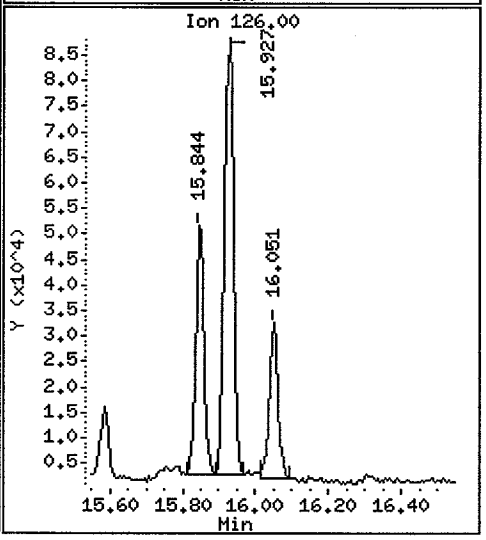












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-04-A
SAMPLE

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 12:42
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.32 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 34.9%
pH: 7.2

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**380**	**720**	
91-57-6	**2-Methylnaphthalene**	**380**	**460**	
90-12-0	**1-Methylnaphthalene**	**380**	**230**	**J**
208-96-8	Acenaphthylene	380	< 380	U
83-32-9	**Acenaphthene**	**380**	**4,600**	
86-73-7	**Fluorene**	**380**	**1,900**	
85-01-8	**Phenanthrene**	**380**	**18,000**	
120-12-7	**Anthracene**	**380**	**4,000**	
206-44-0	**Fluoranthene**	**380**	**41,000**	**E**
129-00-0	**Pyrene**	**380**	**35,000**	
56-55-3	**Benzo(a)anthracene**	**380**	**25,000**	
218-01-9	**Chrysene**	**380**	**31,000**	
205-99-2	**Benzo(b)fluoranthene**	**380**	**31,000**	
207-08-9	**Benzo(k)fluoranthene**	**380**	**27,000**	
50-32-8	**Benzo(a)pyrene**	**380**	**33,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**380**	**20,000**	
53-70-3	**Dibenz(a,h)anthracene**	**380**	**6,700**	
191-24-2	**Benzo(g,h,i)perylene**	**380**	**23,000**	
198-55-0	**Perylene**	**380**	**8,900**	
92-52-4	Biphenyl	380	< 380	U
581-42-0	2,6-Dimethylnaphthalene	380	< 380	U
832-69-9	**1-Methylphenanthrene**	**380**	**1,100**	
192-97-2	**Benzo(e)pyrene**	**380**	**19,000**	
2245-38-7	2,3,5-Trimethylnaphthalene	380	< 380	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	74.3%
d14-Dibenzo(a,h)anthracen	102%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq36e.d
Lab Smp Id: JQ36E Client Smp ID: T4-S3-04-A
Inj Date : 09-AUG-2006 12:42
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36E,10
Misc Info : 06-12976
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 09:48 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 4
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	2.03000	Weight of sample extracted (g)
M	34.90000	% 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	6.875	6.877	(1.000)	276537	2.00000		
	2 Naphthalene	128	6.899	6.901	(1.003)	26623	0.19301	730.3	
$	3 2-Methylnaphthalene-d10	152	7.632	7.634	(1.110)	15866	0.22275	842.8	
	4 2-Methylnaphthalene	142	7.667	7.669	(1.115)	9642	0.11804	446.6	
	5 1-Methylnaphthalene	142	7.797	7.799	(1.134)	5358	0.06253	236.6	J
	7 Acenaphthylene	152	Compound Not Detected.						
*	8 Acenaphthene-d10	164	8.938	8.934	(1.000)	138889	2.00000		
	9 Acenaphthene	153	8.973	8.975	(1.004)	81861	1.20037	4542	
	10 Dibenzofuran	168	9.162	9.164	(1.025)	17698	0.17618	666.6	
	11 Fluorene	166	9.588	9.590	(1.073)	38098	0.48718	1843	
*	15 Phenanthrene-d10	188	10.746	10.748	(1.000)	194946	2.00000		
	16 Phenanthrene	178	10.776	10.778	(1.003)	484011	4.83708	18300	
	17 Anthracene	178	10.835	10.837	(1.008)	106881	1.06885	4044	
	19 Fluoranthene	202	12.271	12.273	(1.142)	1114418	10.9191	41310	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.561	12.557	(0.893)	1111314	9.34670	35360
	22 Benzo(a)anthracene	228	14.038	14.040	(0.998)	741425	6.64937	25160
*	23 Chrysene-d12	240	14.062	14.058	(1.000)	185164	2.00000	
	24 Chrysene	228	14.092	14.093	(1.002)	835198	8.12090	30730
	28 Benzo(b)fluoranthene	252	15.439	15.429	(0.964)	1028059	8.29199	31370
	29 Benzo(k)fluoranthene	252	15.463	15.459	(0.966)	940147	7.11279	26910
	30 Benzo(a)pyrene	252	15.930	15.926	(0.995)	1052700	8.71378	32970
*	31 Perylene-d12	264	16.012	16.008	(1.000)	219680	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.974	17.959	(1.123)	727618	5.23731	19820
$	32 Dibenz(a,h)anthrancene-d14	292	17.880	17.888	(1.117)	25833	0.30728	1163
	34 Dibenz(a,h)anthracene	278	17.951	17.959	(1.121)	200566	1.76716	6686
	35 Benzo(g,h,i)perylene	276	18.554	18.544	(1.159)	697310	6.03803	22840
	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	11.550	11.552	(0.821)	22726	0.29984	1134
	52 Benzo(e)pyrene	252	15.847	15.843	(0.990)	670081	5.01087	18960
	53 Perylene	252	16.054	16.050	(1.003)	295477	2.35330	8904

VTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36e.d
Lab Smp Id: JQ36E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12976

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-S3-04-A
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	276537	15.18
8 Acenaphthene-d10	117778	58889	235556	138889	17.92
15 Phenanthrene-d10	165702	82851	331404	194946	17.65
23 Chrysene-d12	120342	60171	240684	185164	53.86
31 Perylene-d12	134879	67440	269758	219680	62.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.03
8 Acenaphthene-d10	8.93	8.43	9.43	8.94	0.04
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	-0.02
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.03
31 Perylene-d12	16.01	15.51	16.51	16.01	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

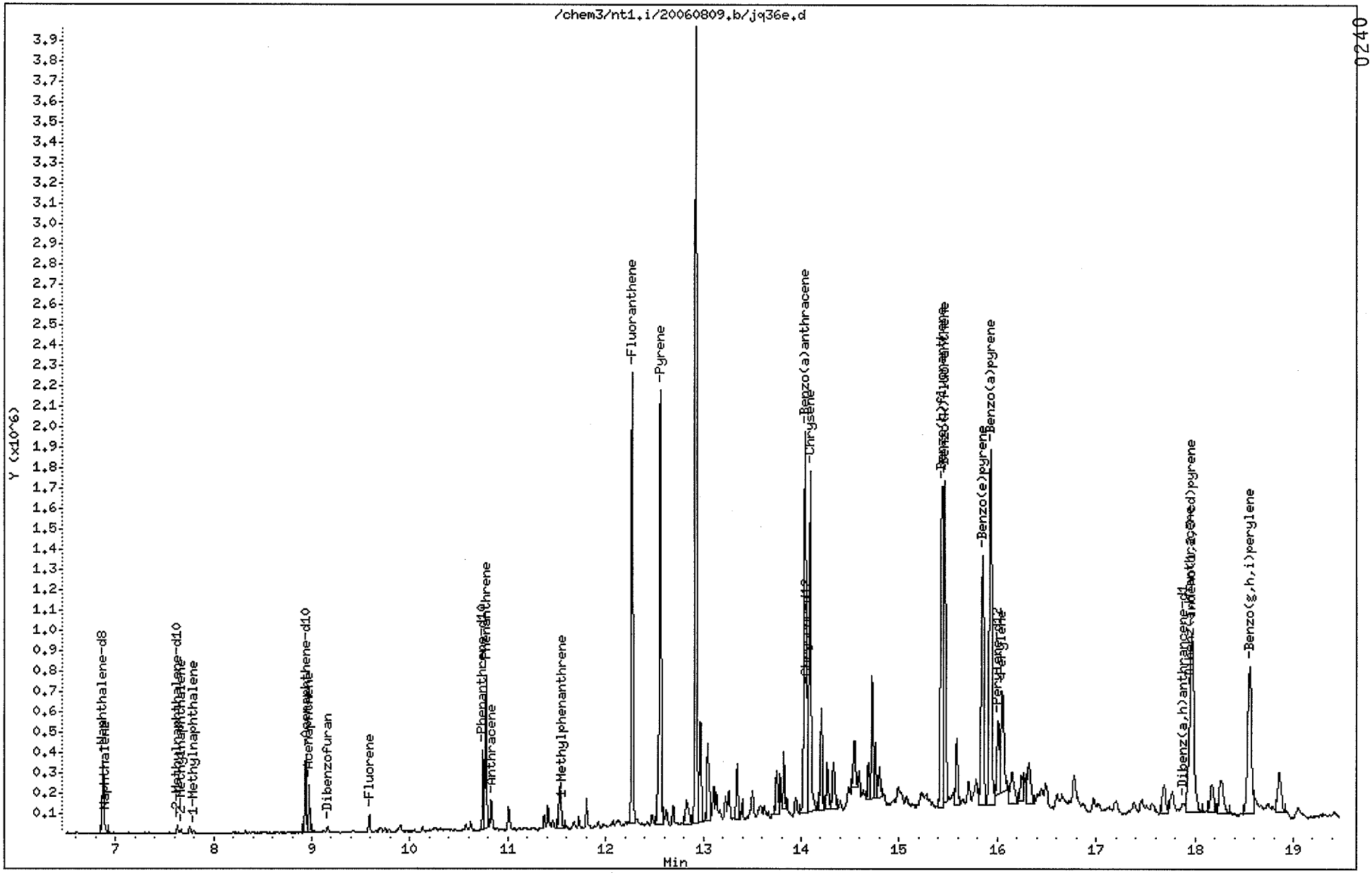
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36E
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12976

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-04-A
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	1135	842.8	74.25	32-97
$ 32 Dibenz(a,h)anthran	1135	1163	102.43	21-105

Data File: /chem3/nt1.i/20060809.b/jq36e.d
Date : 09-AUG-2006 12:42
Client ID: T4-S3-04-A
Sample Info: JQ36E,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

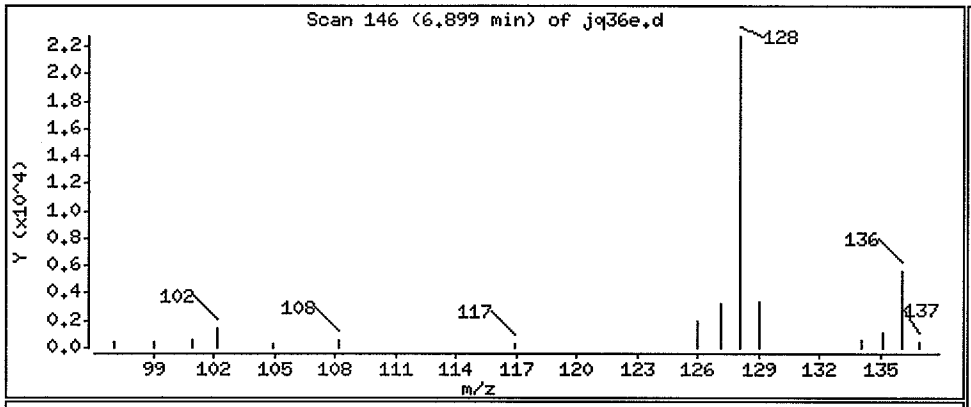
Operator: VTS

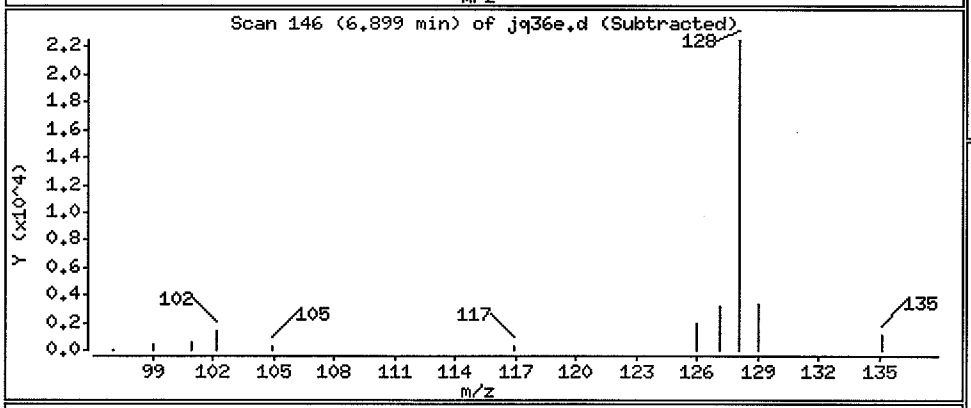
Column phase: ZB-5

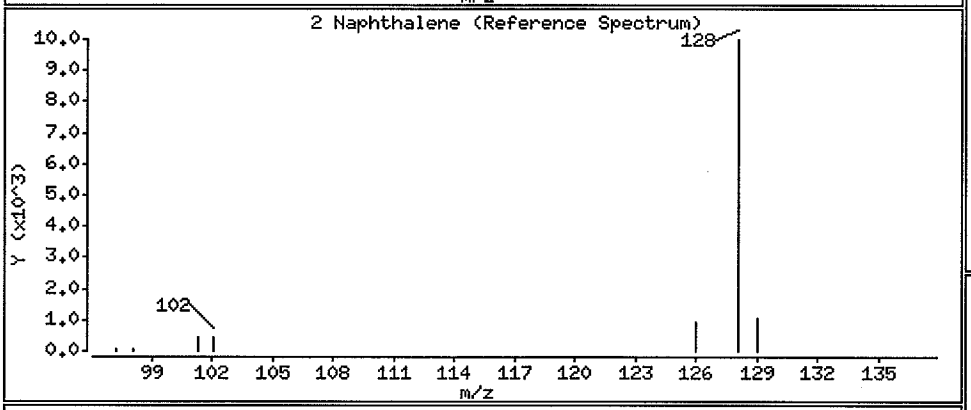
Column diameter: 0.25

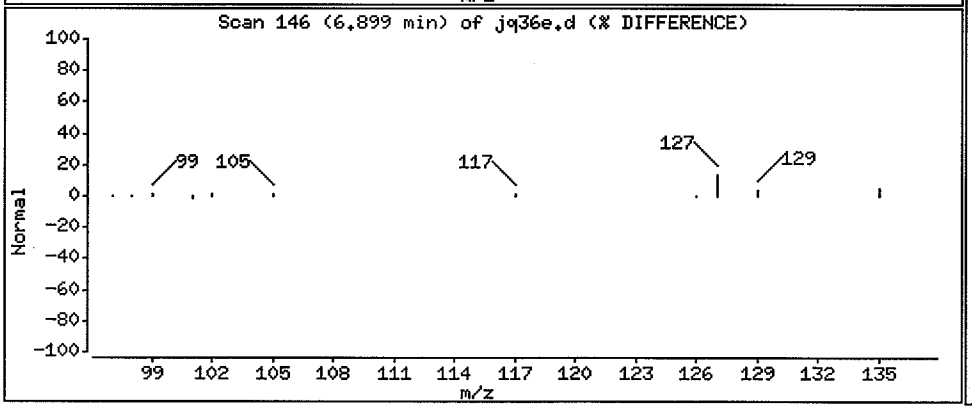
2 Naphthalene

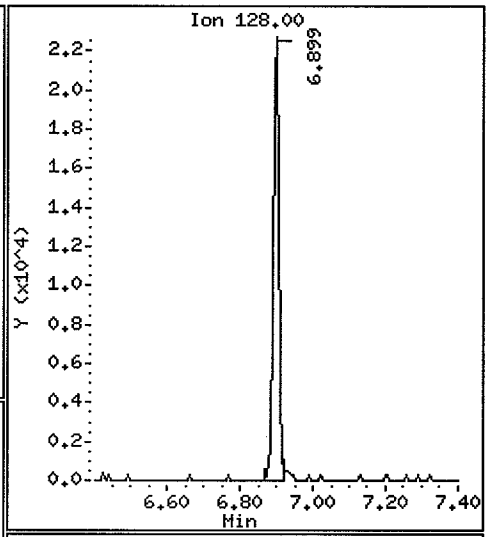
Concentration: 730.3 ug/kg

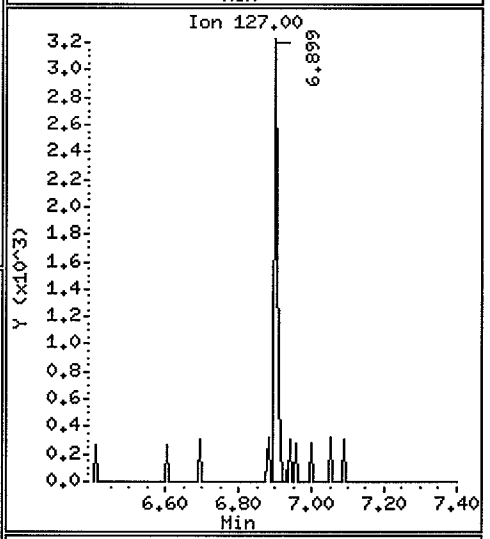


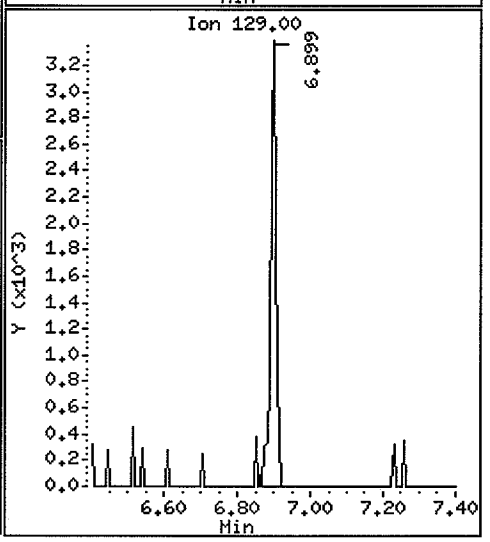












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

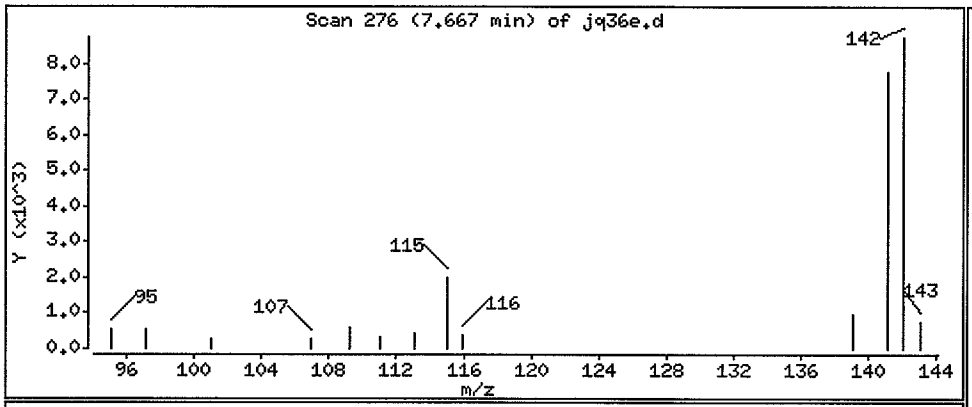
Operator: VTS

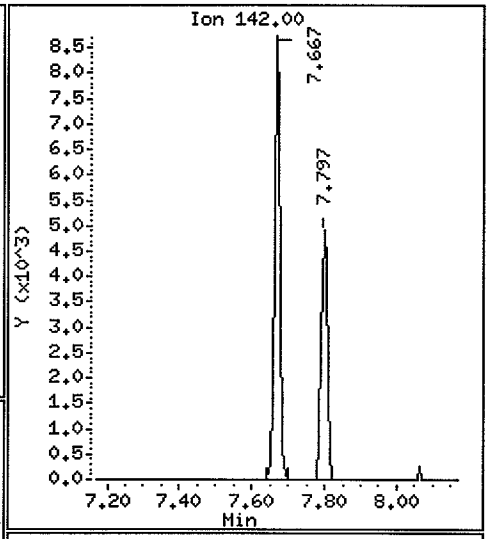
Column phase: ZB-5

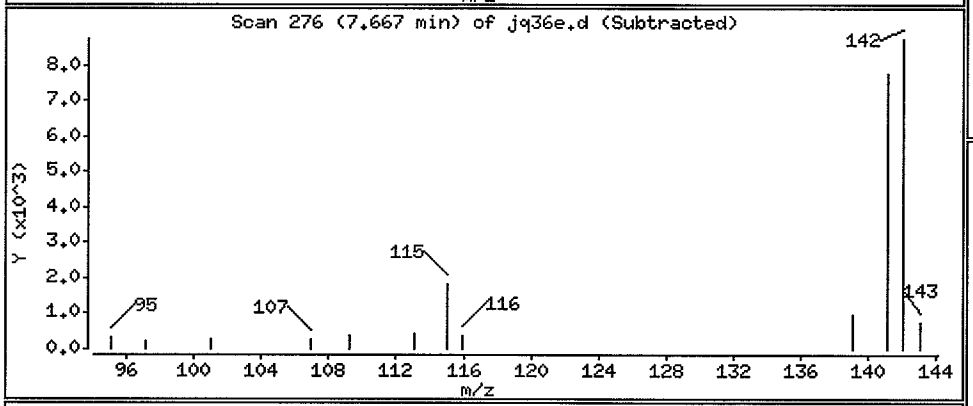
Column diameter: 0.25

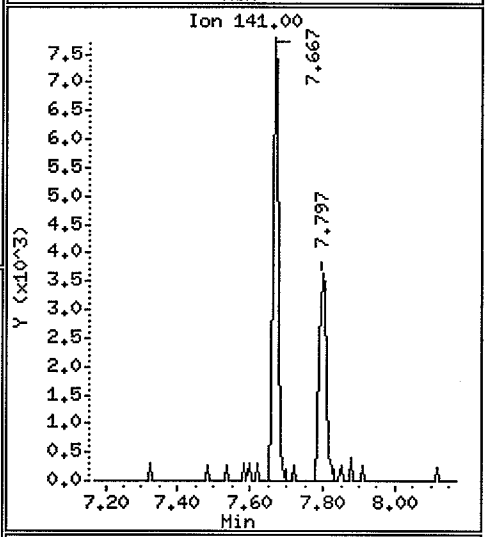
4 2-Methylnaphthalene

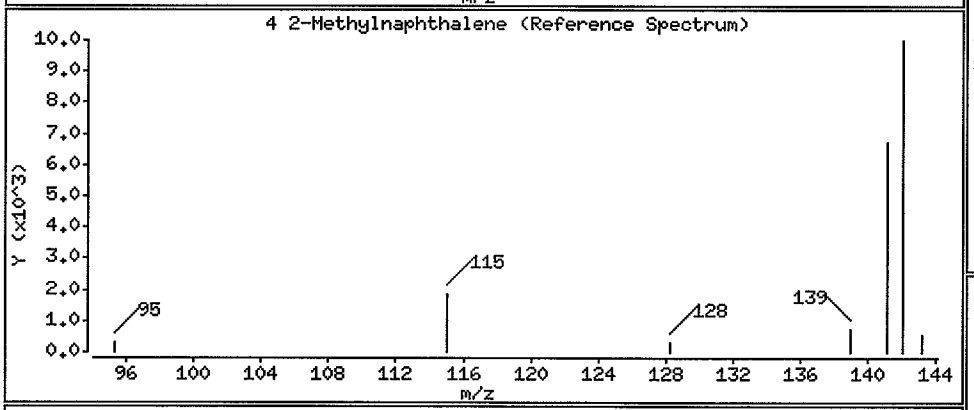
Concentration: 446.6 ug/kg

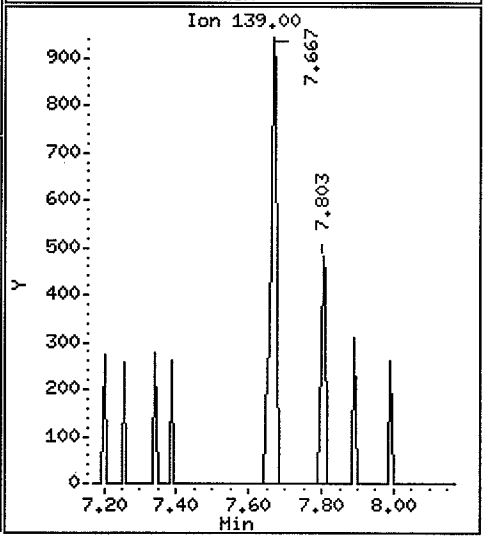


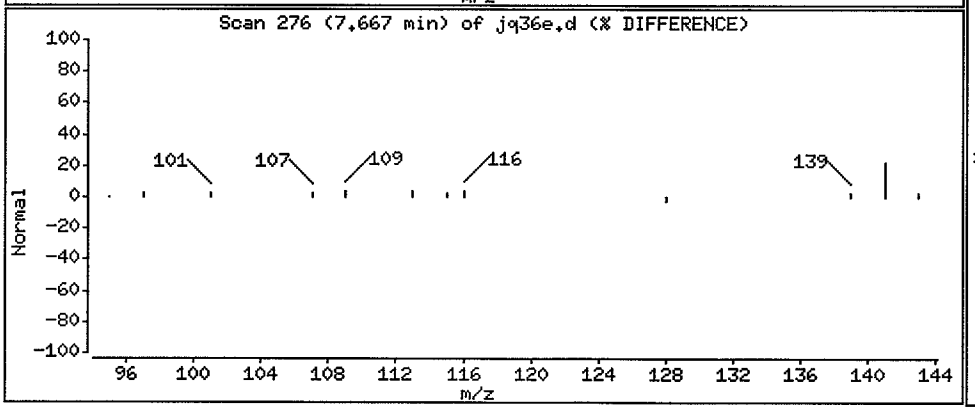












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

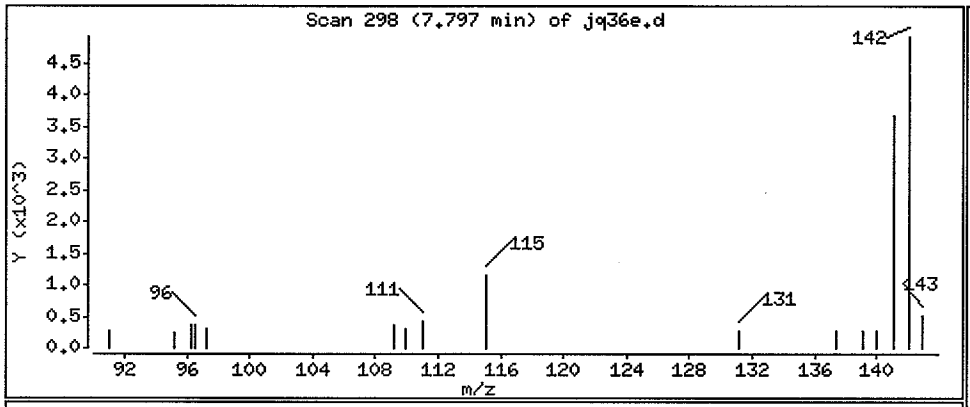
Operator: VTS

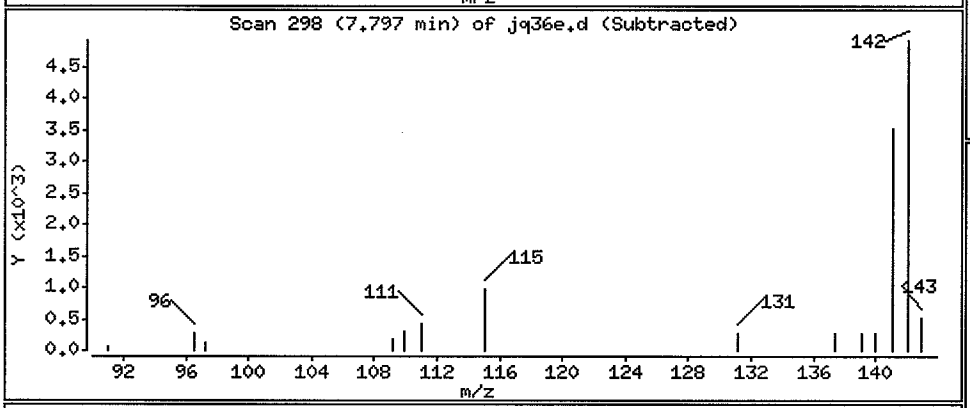
Column phase: ZB-5

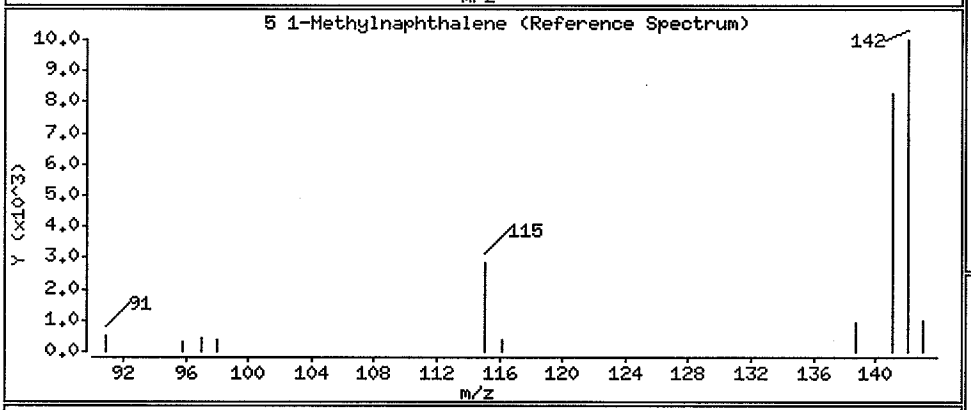
Column diameter: 0.25

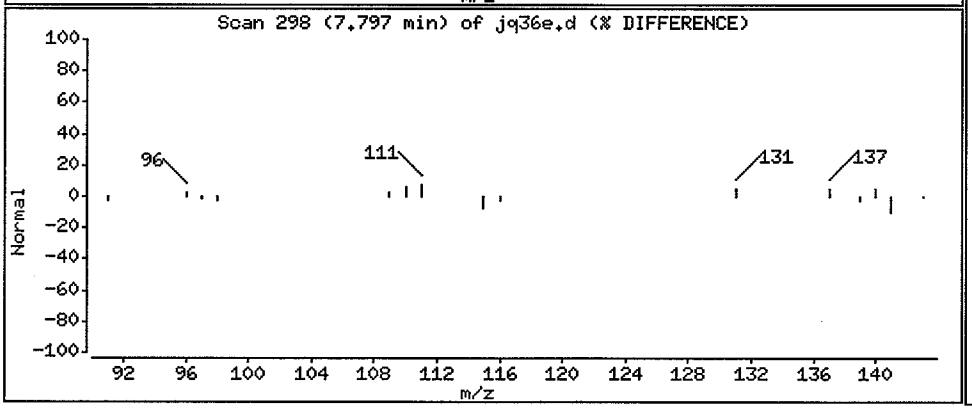
5 1-Methylnaphthalene

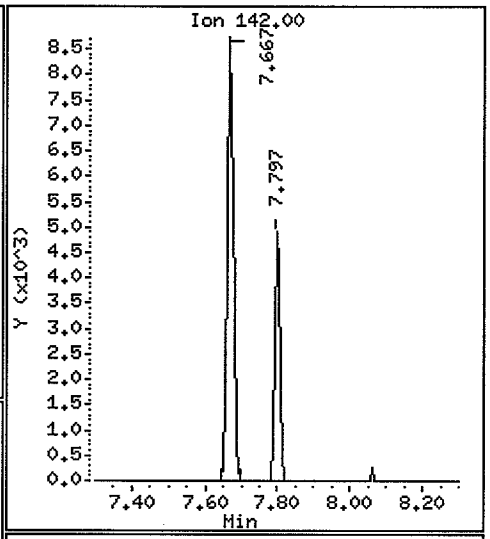
Concentration: 236.6 ug/kg

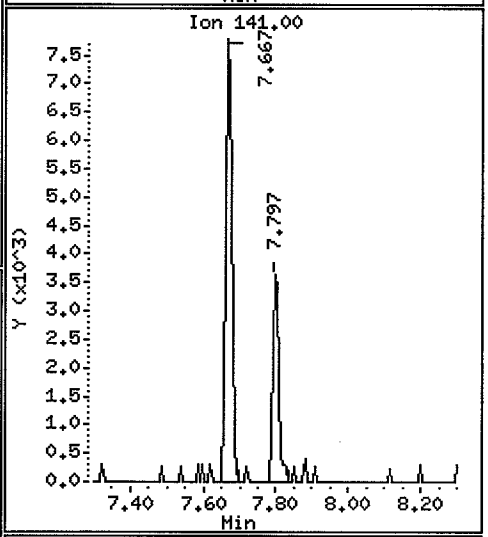


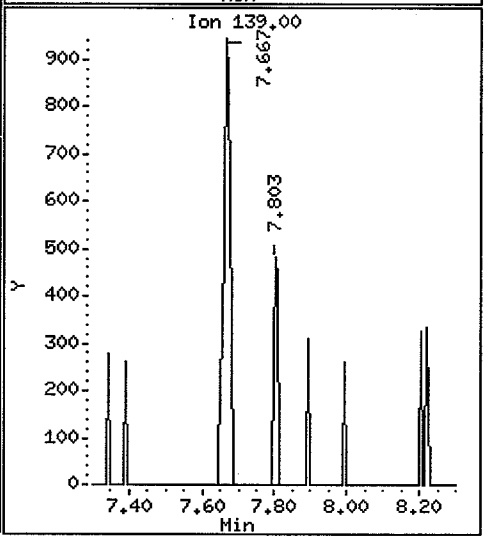












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

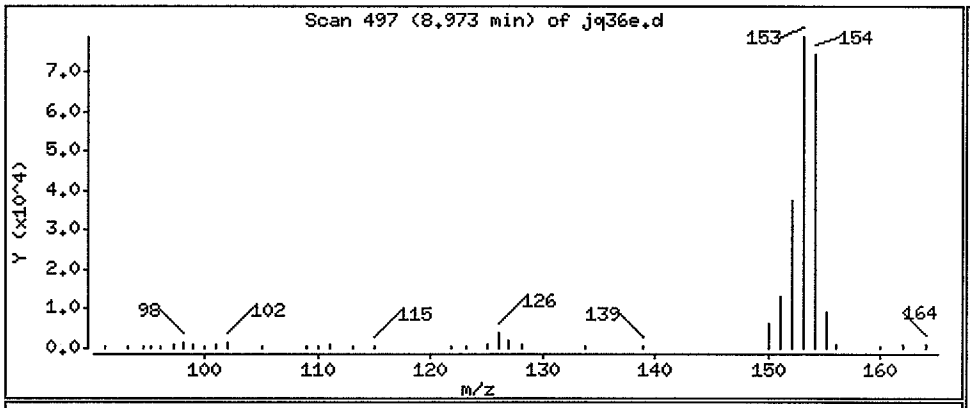
Operator: VTS

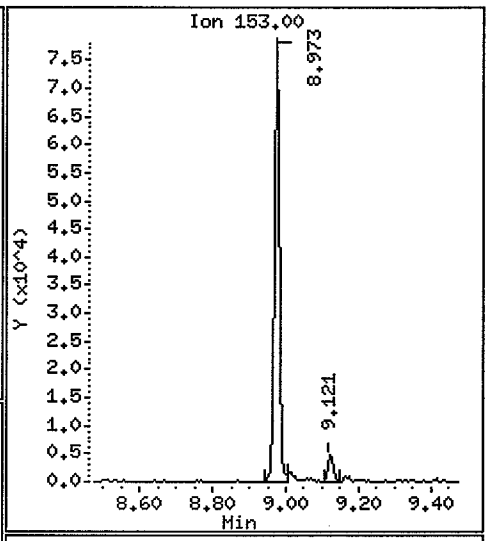
Column phase: ZB-5

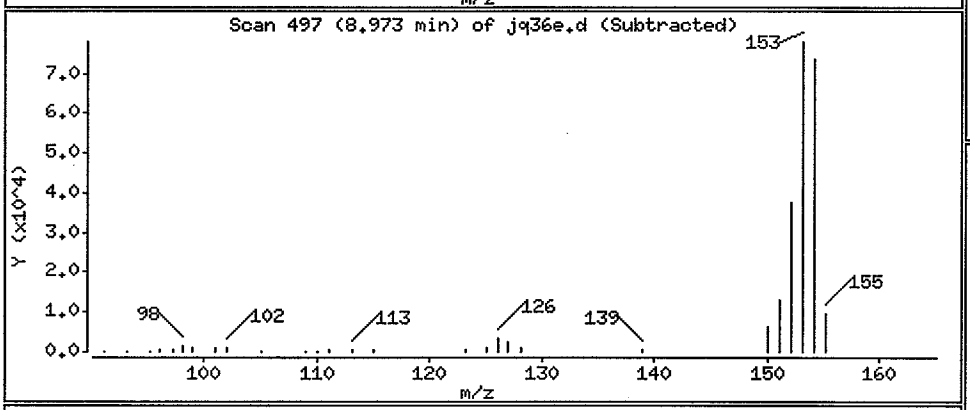
Column diameter: 0.25

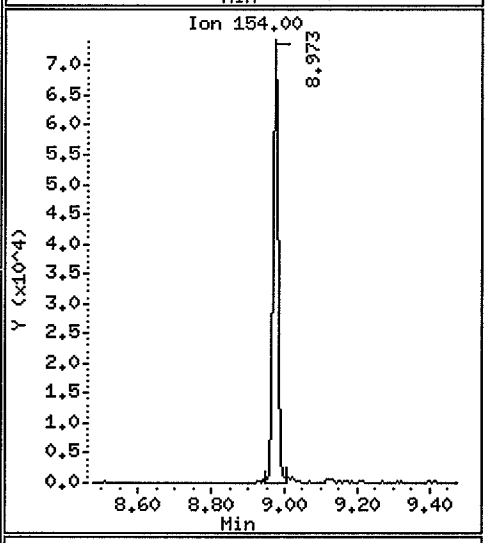
9 Acenaphthene

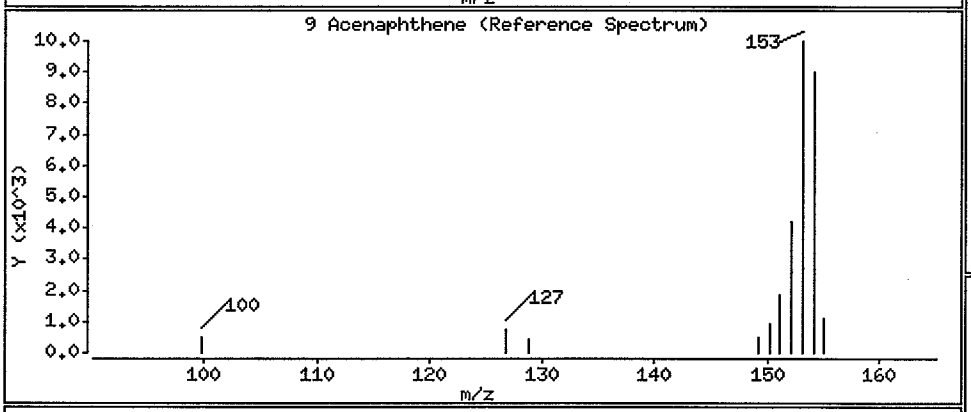
Concentration: 4542 ug/kg

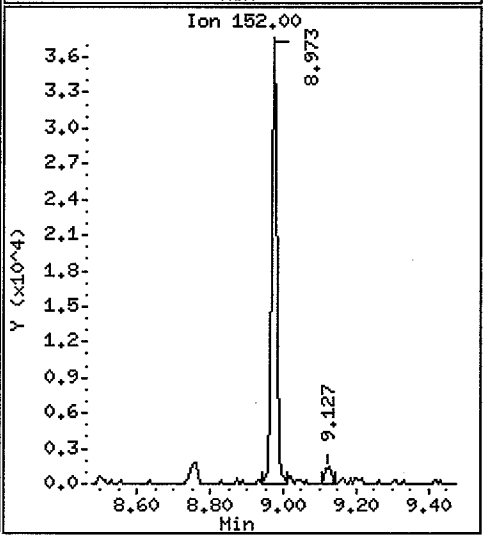


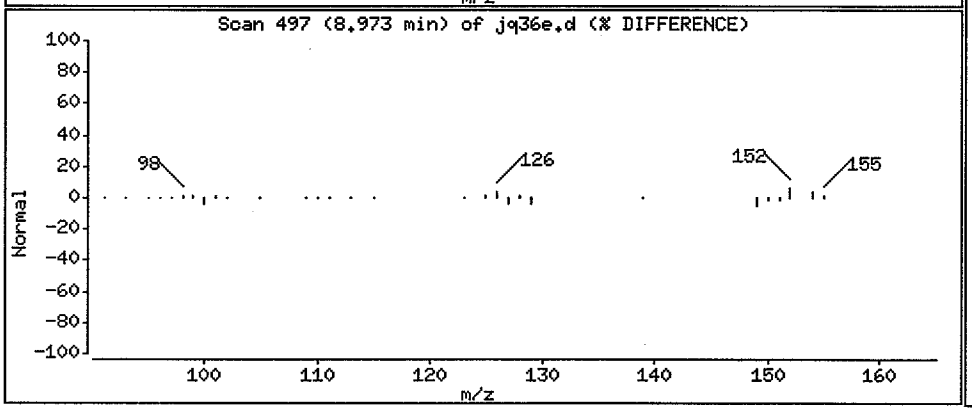












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

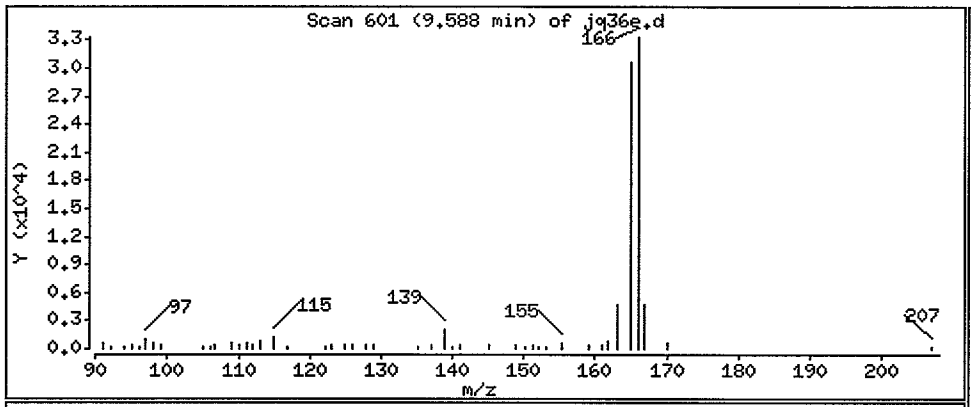
Operator: VTS

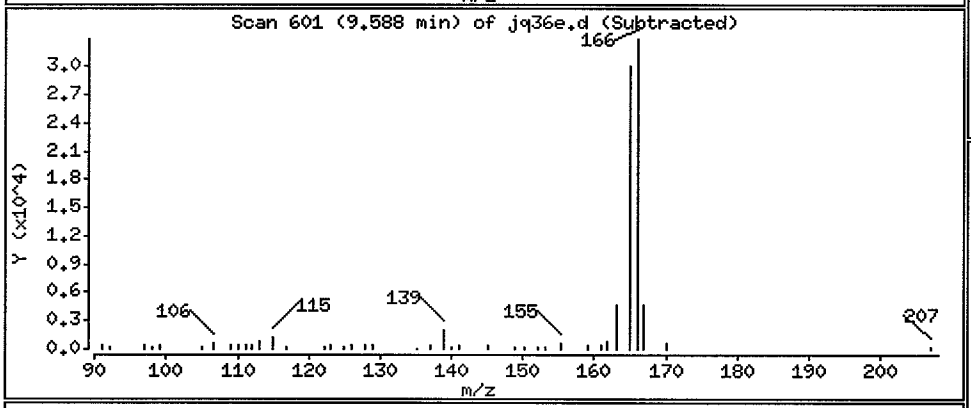
Column phase: ZB-5

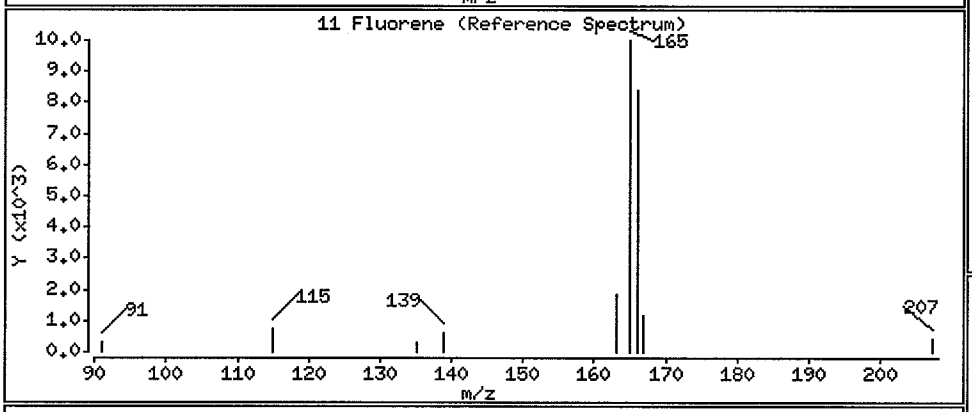
Column diameter: 0.25

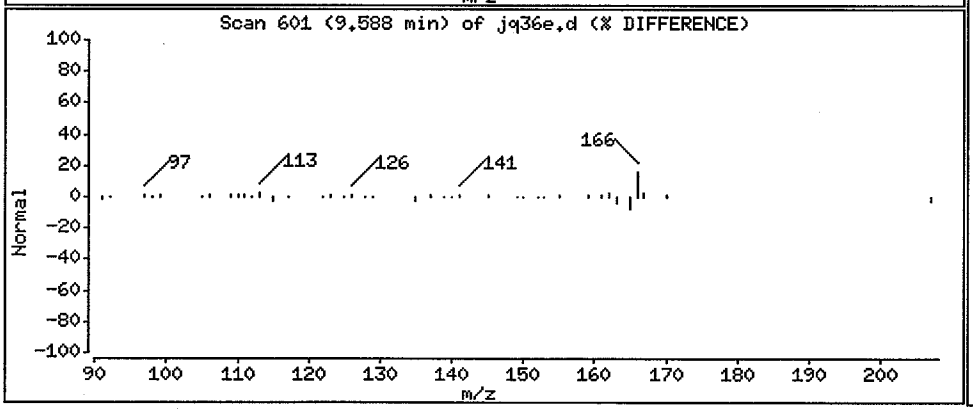
11 Fluorene

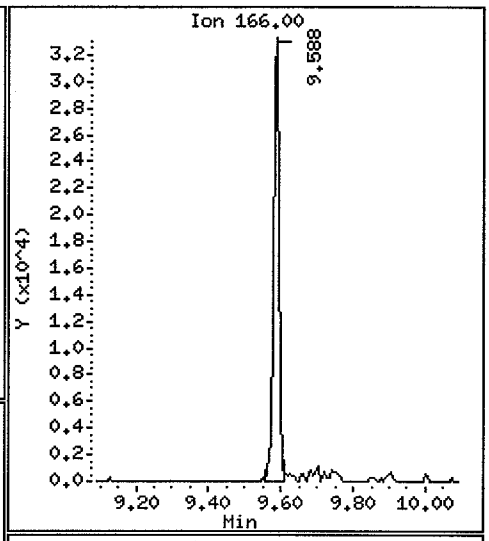
Concentration: 1843 ug/kg

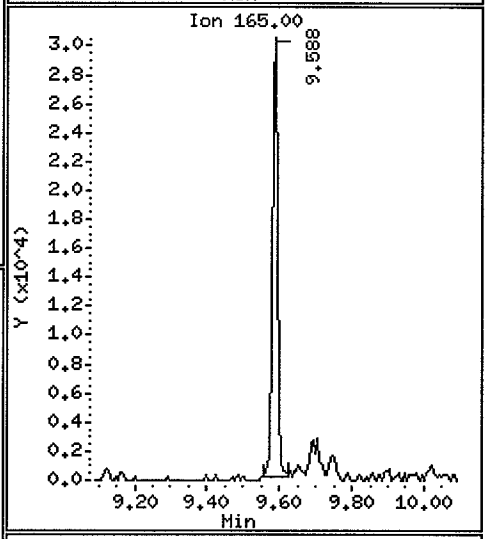


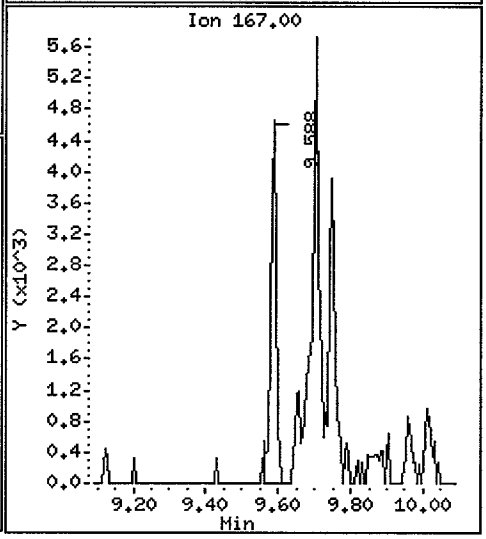












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

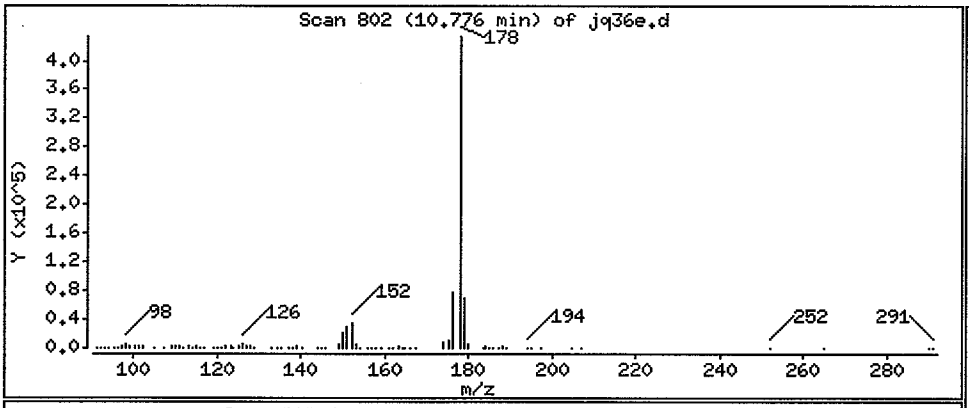
Operator: VTS

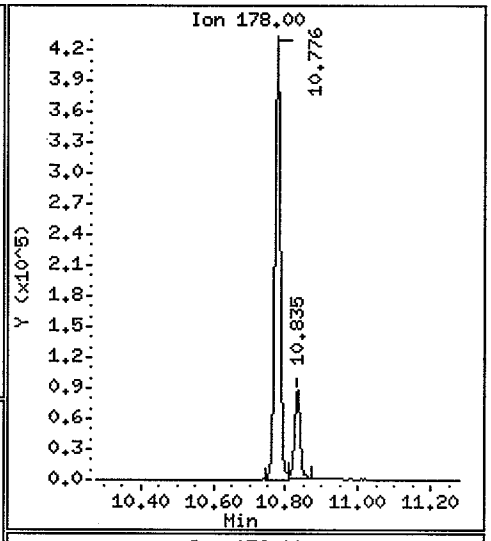
Column phase: ZB-5

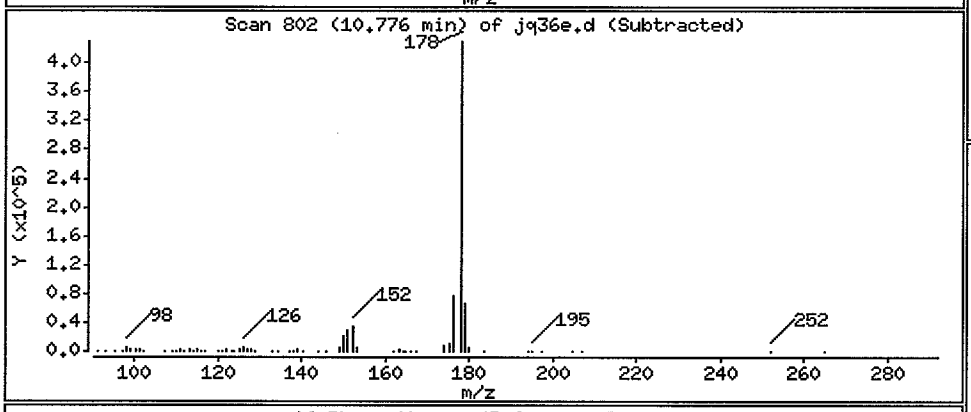
Column diameter: 0.25

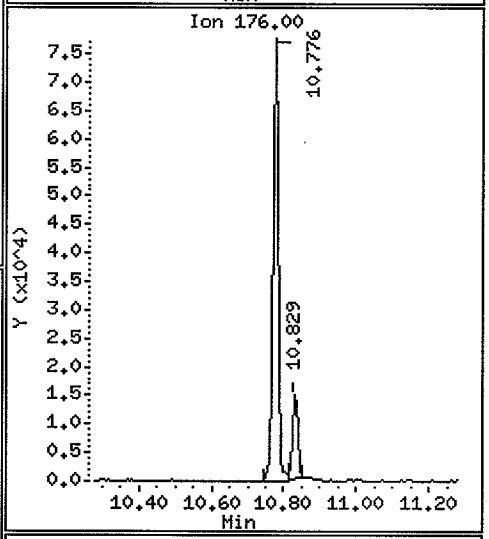
16 Phenanthrene

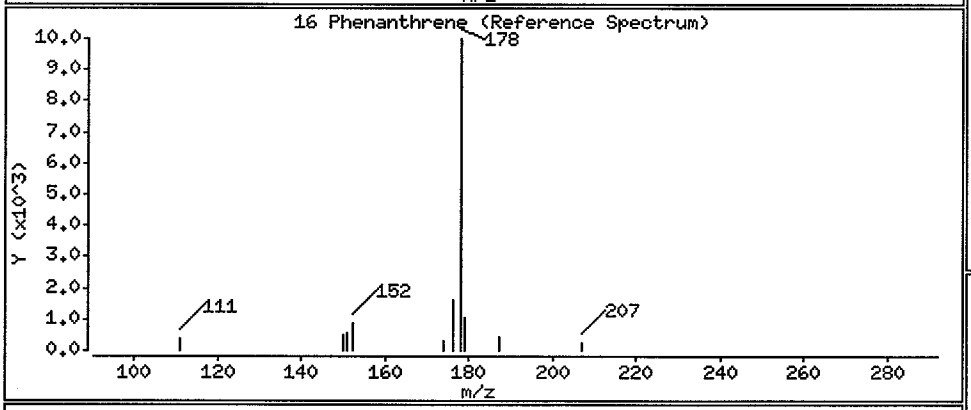
Concentration: 18300 ug/kg

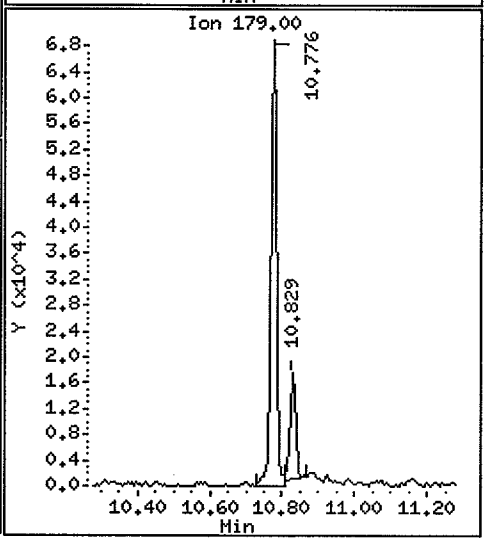


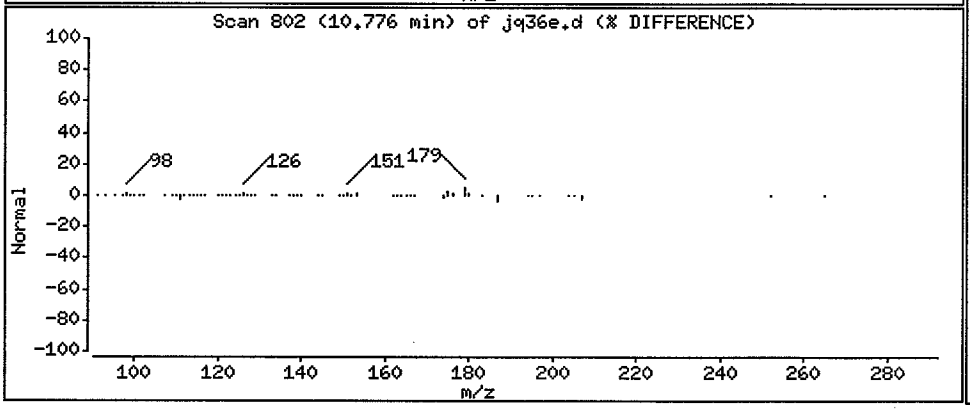












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

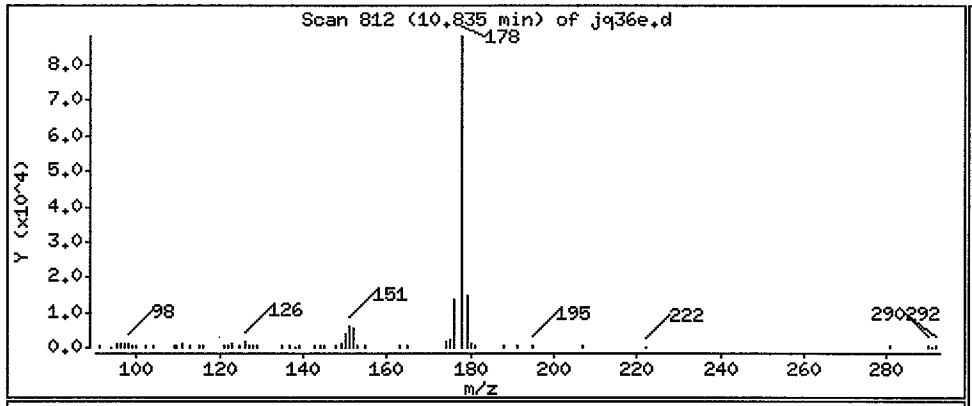
Operator: VTS

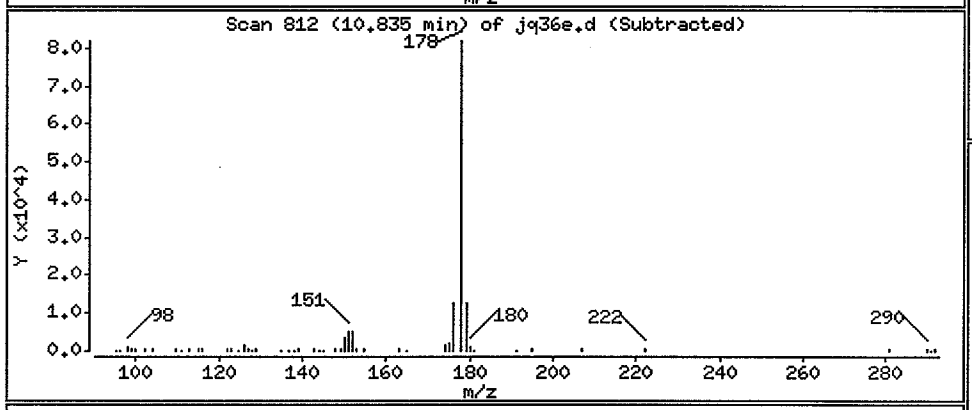
Column phase: ZB-5

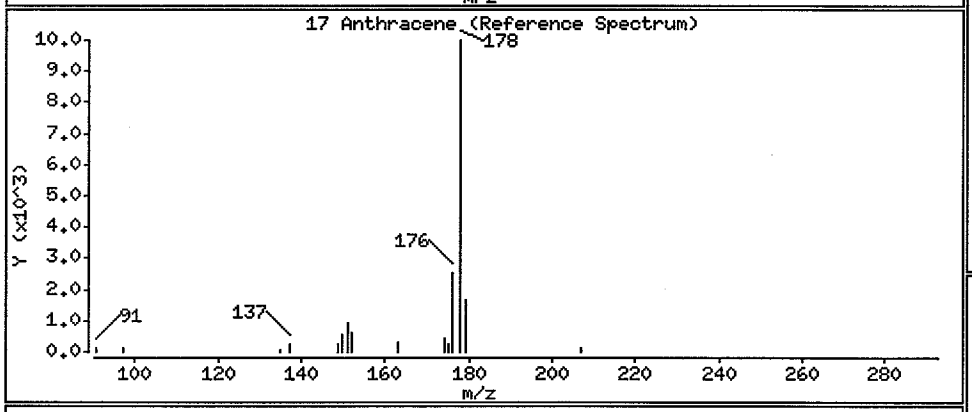
Column diameter: 0.25

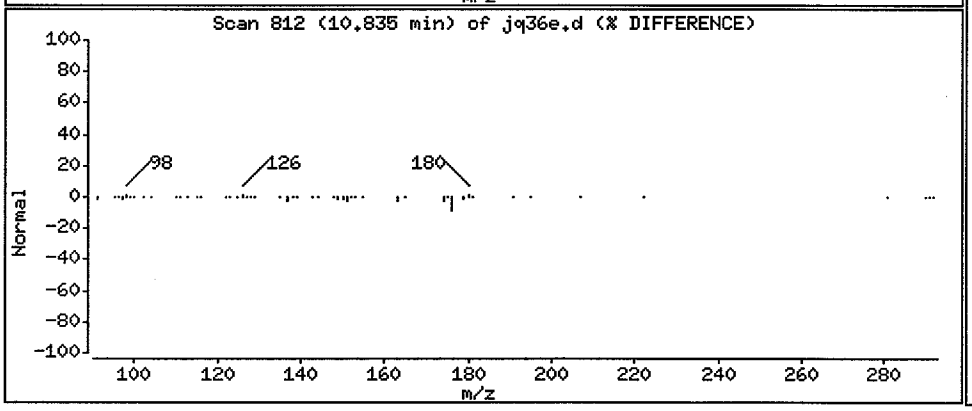
17 Anthracene

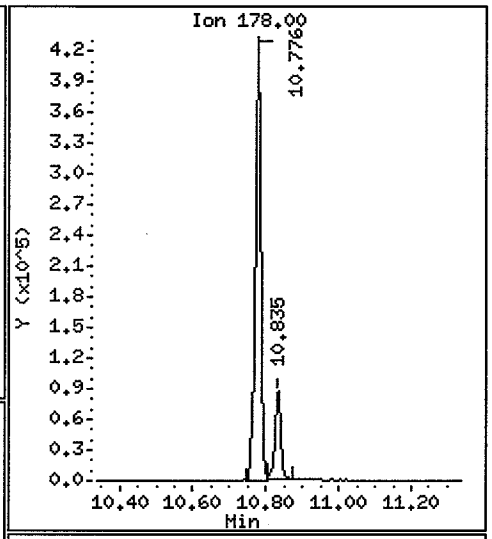
Concentration: 4044 ug/kg

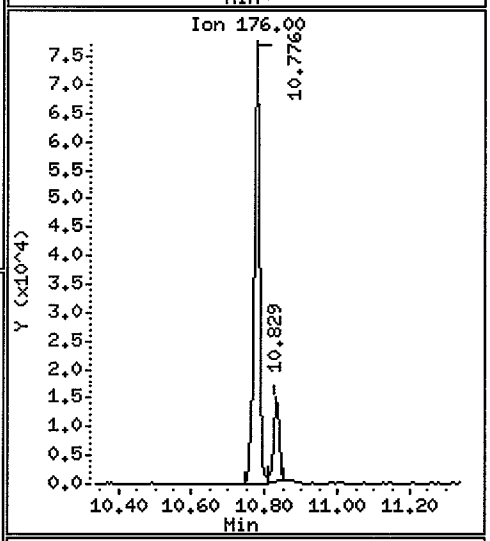


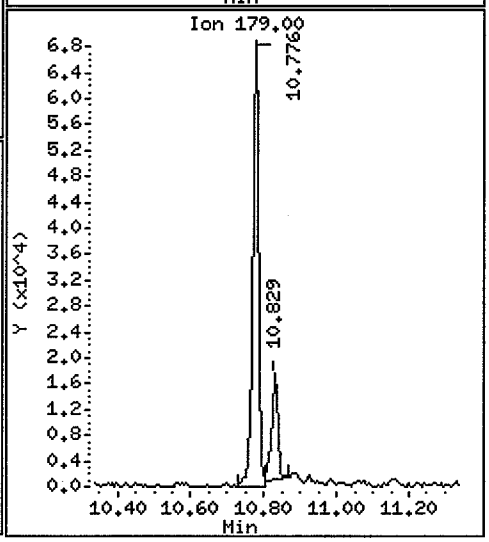












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

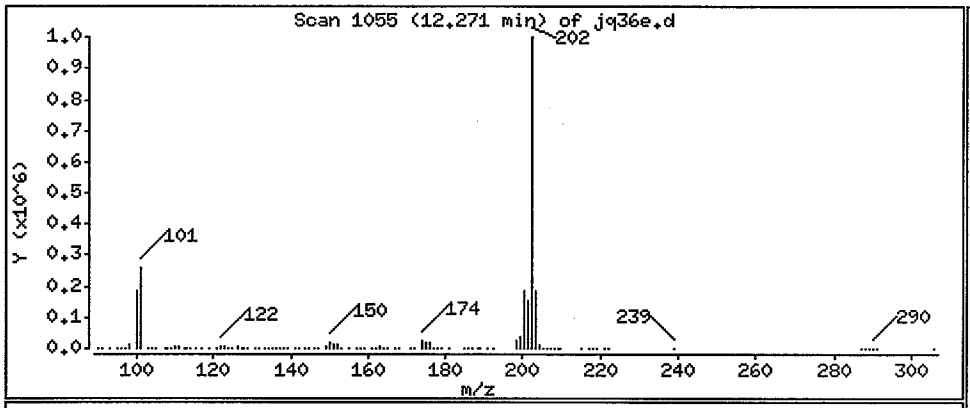
Operator: VTS

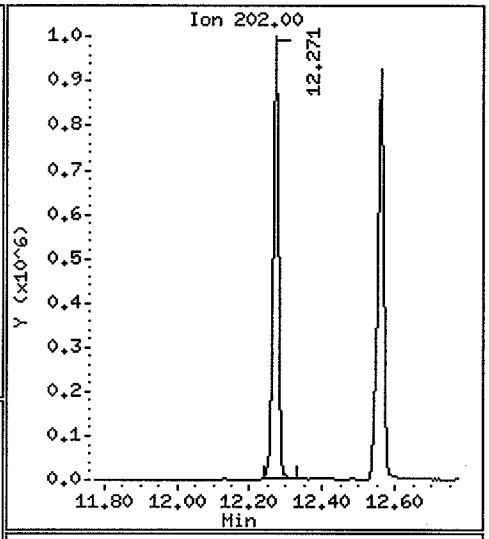
Column phase: ZB-5

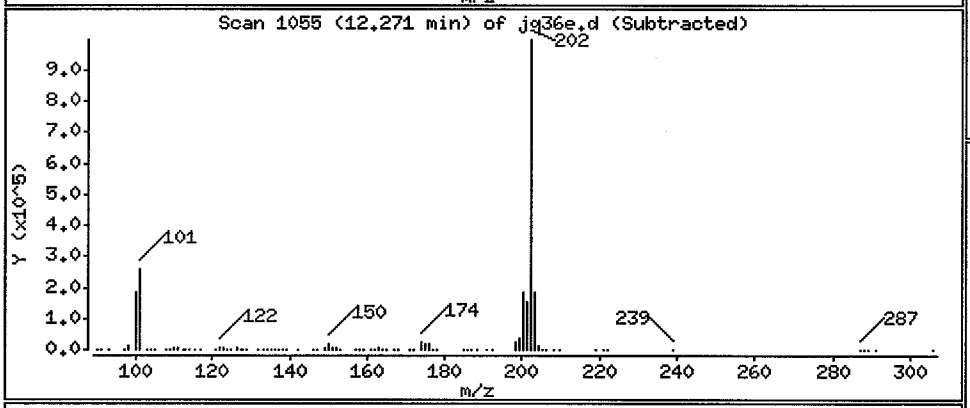
Column diameter: 0.25

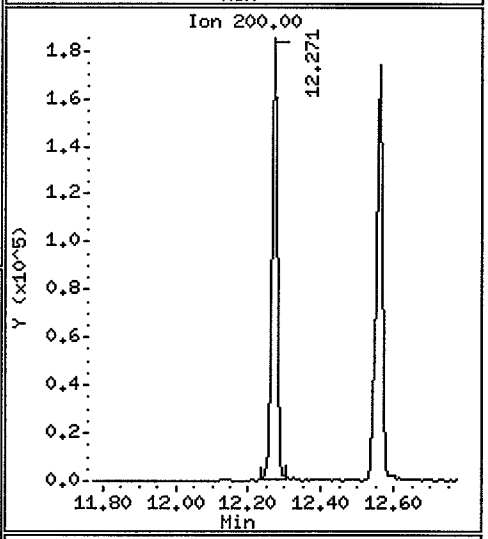
19 Fluoranthene

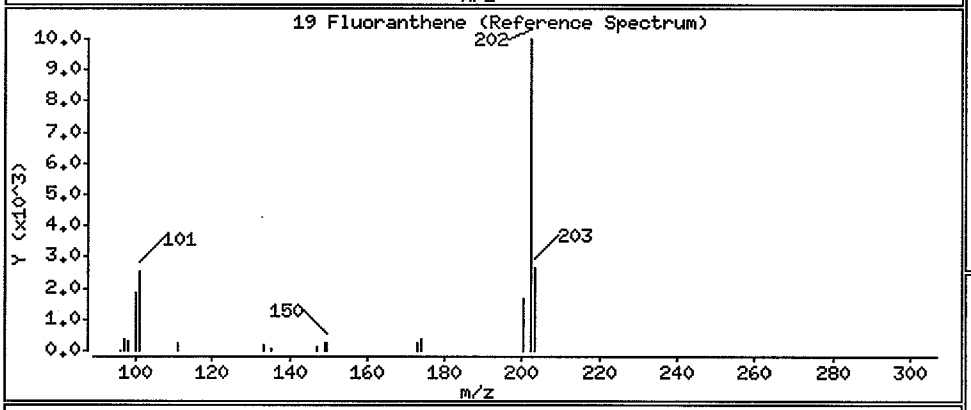
Concentration: 41310 ug/kg

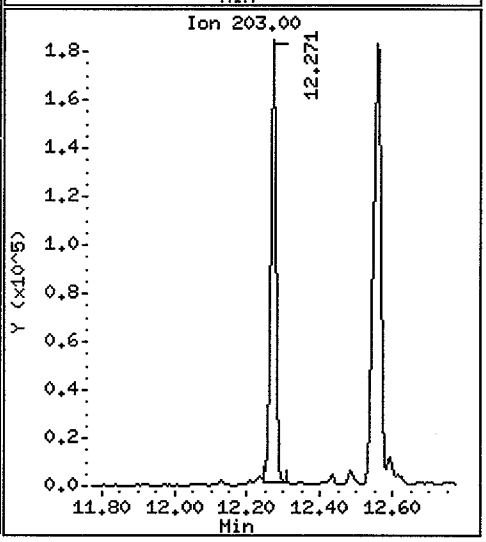


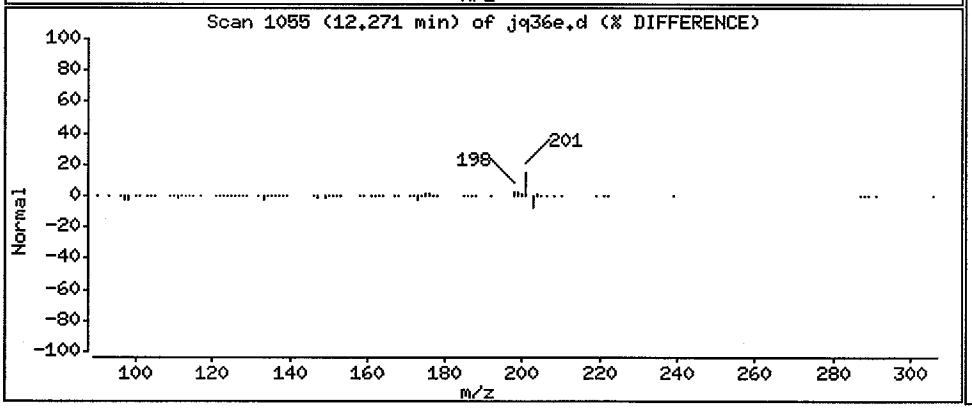












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

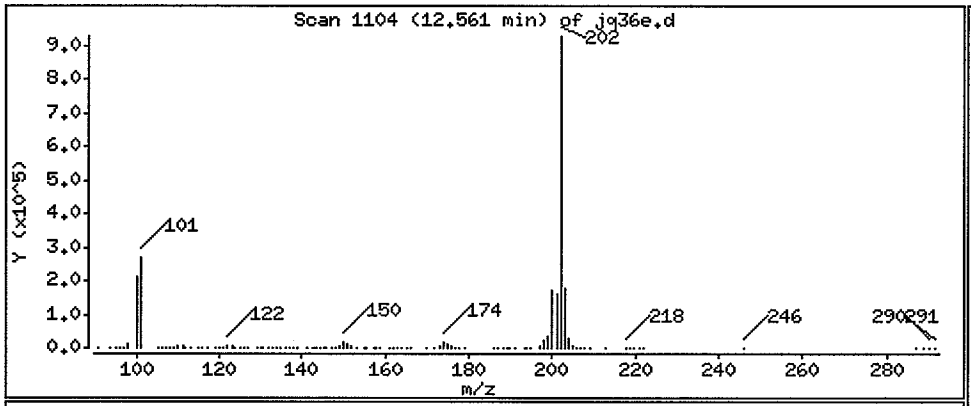
Operator: VTS

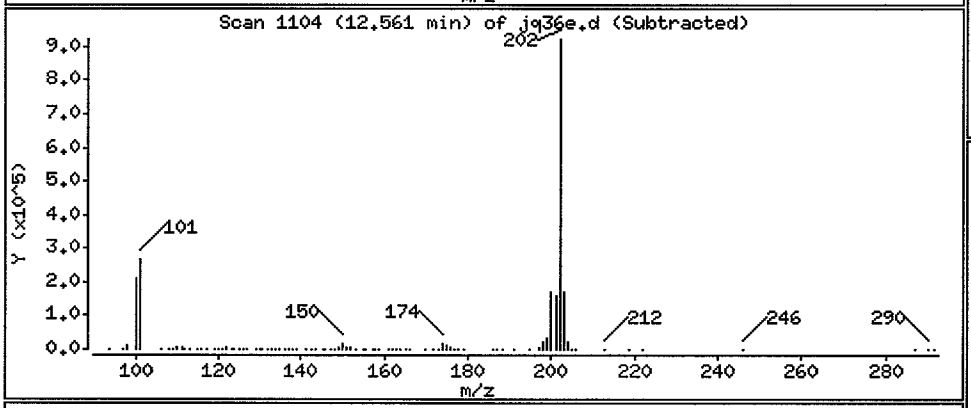
Column phase: ZB-5

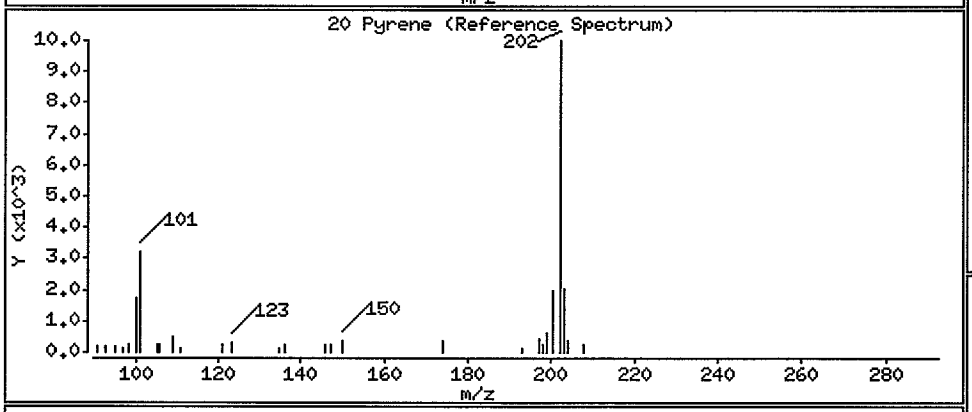
Column diameter: 0.25

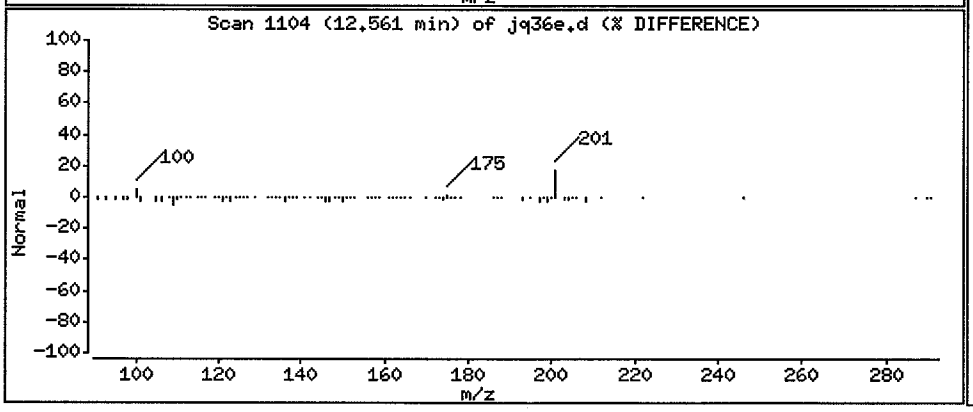
20 Pyrene

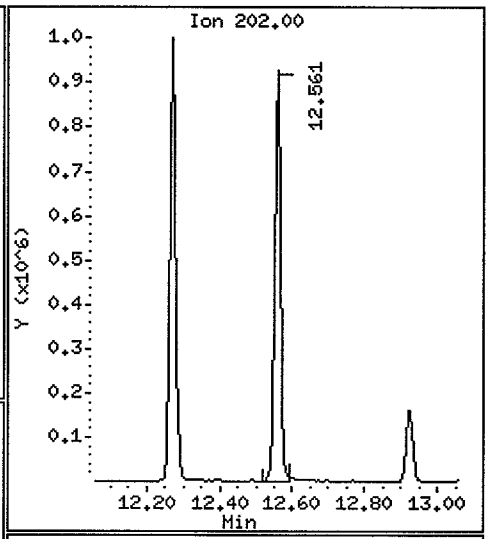
Concentration: 35360 ug/kg

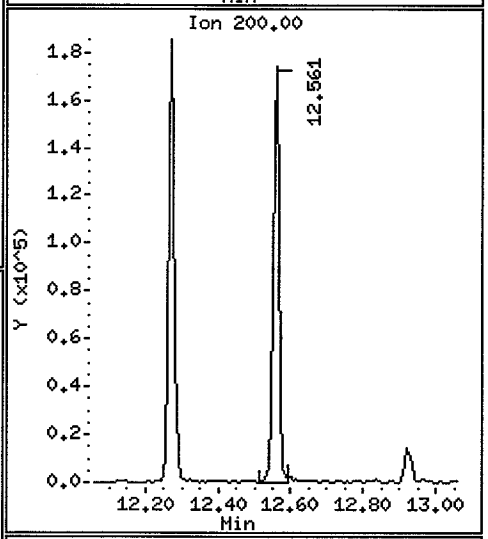


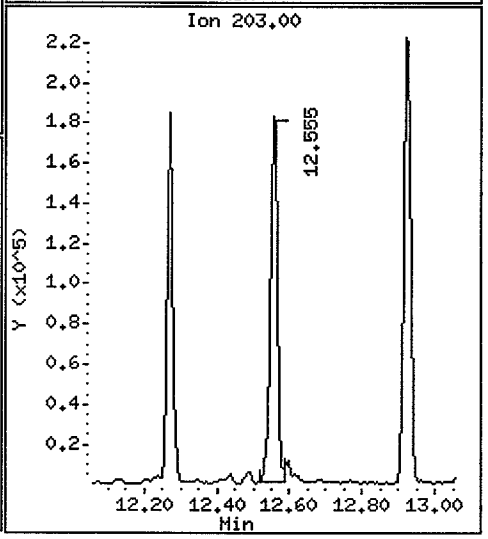












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

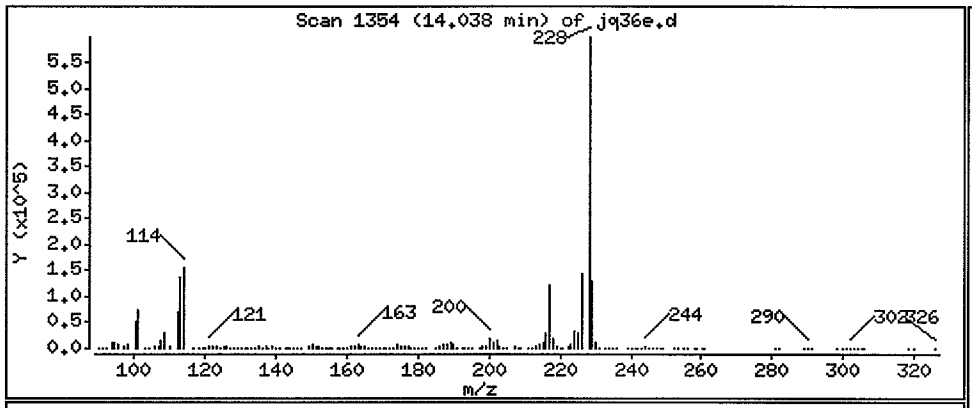
Operator: VTS

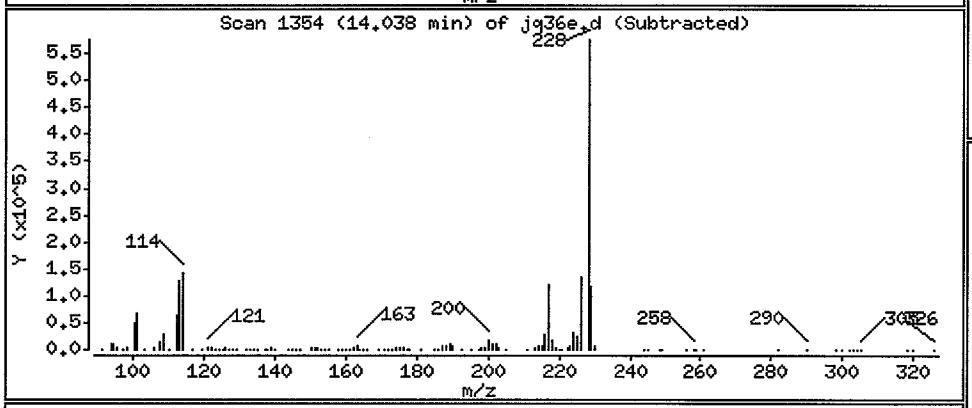
Column phase: ZB-5

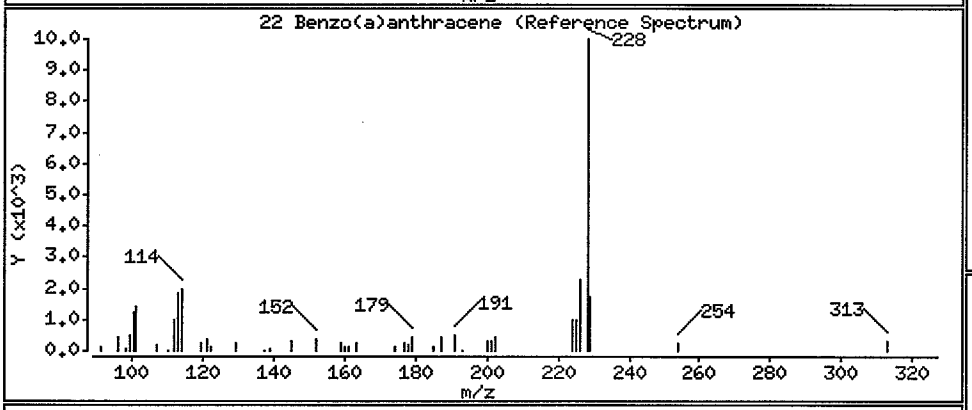
Column diameter: 0.25

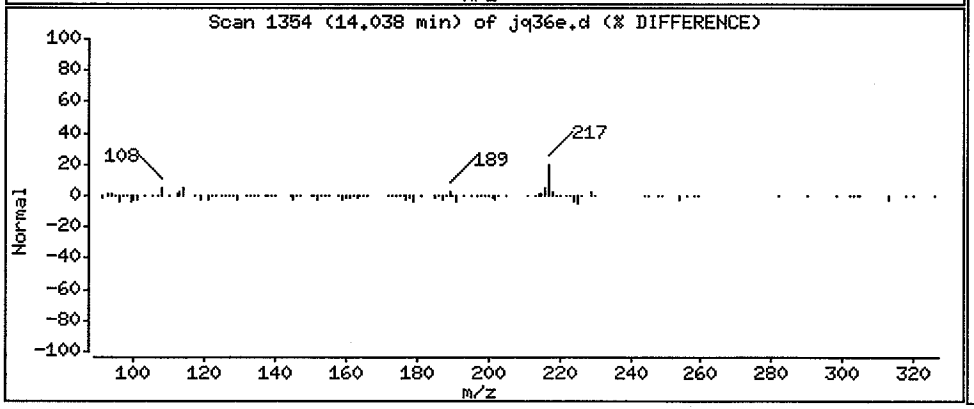
22 Benzo(a)anthracene

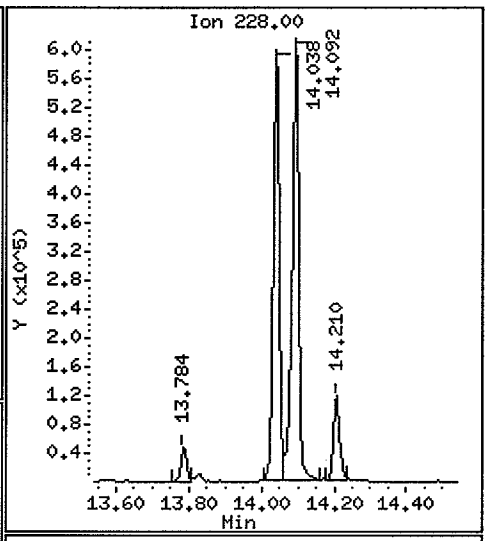
Concentration: 25160 ug/kg

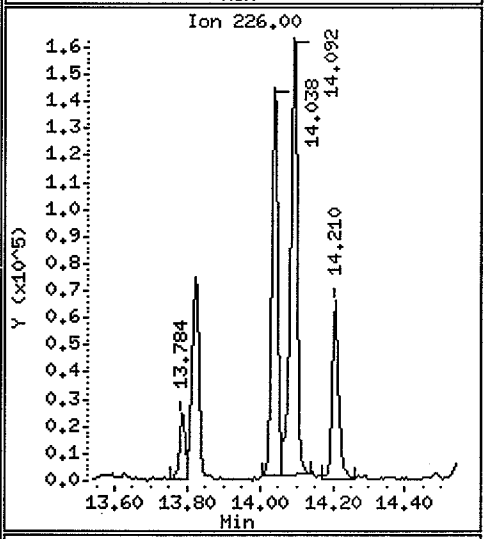


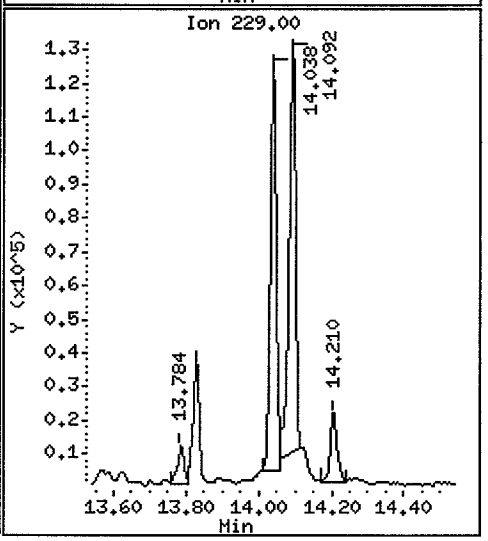












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

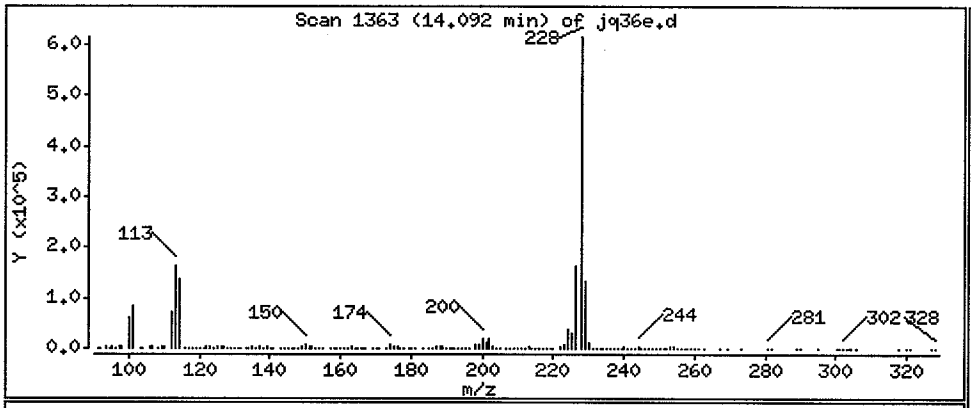
Operator: VTS

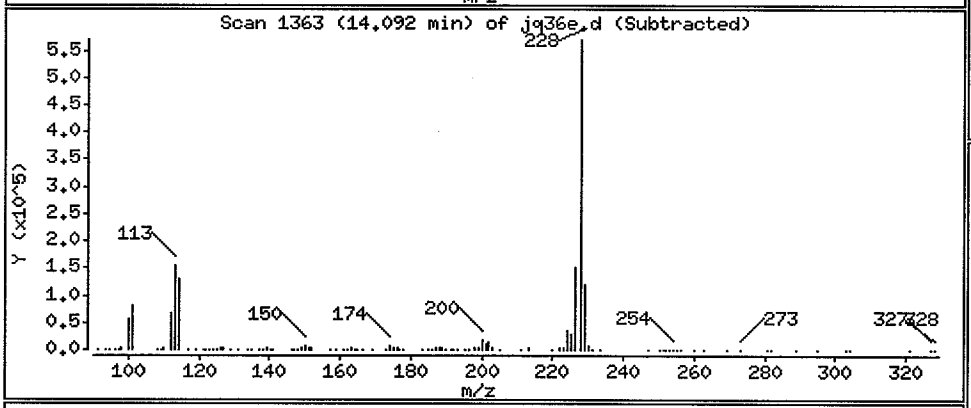
Column phase: ZB-5

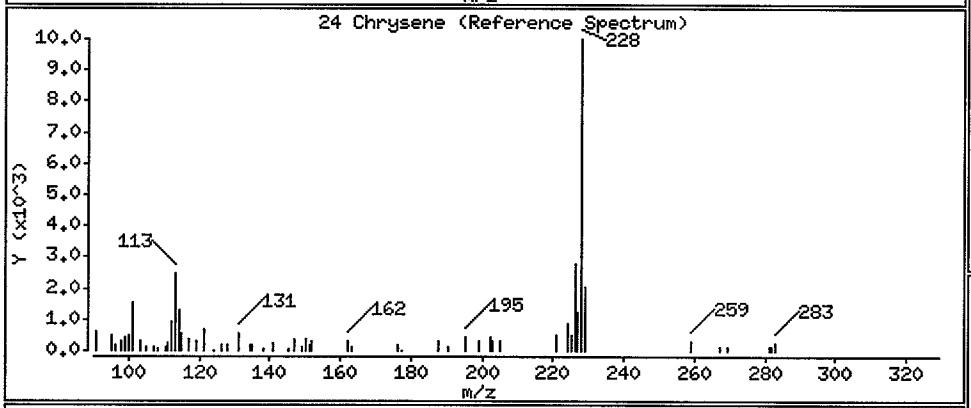
Column diameter: 0.25

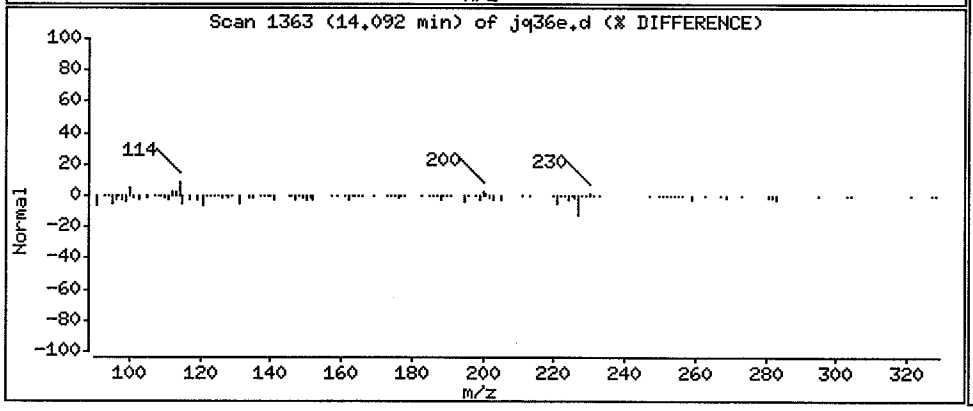
24 Chrysene

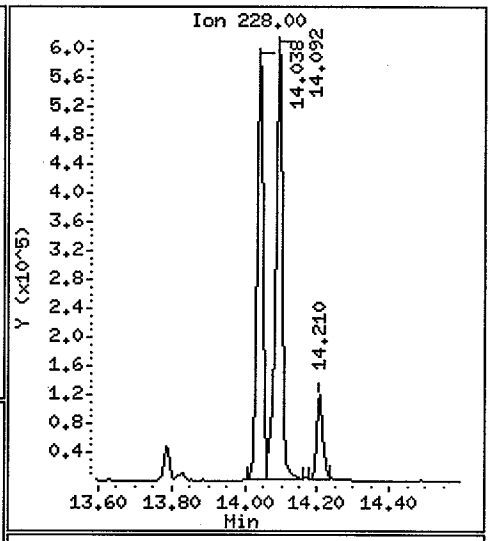
Concentration: 30730 ug/kg

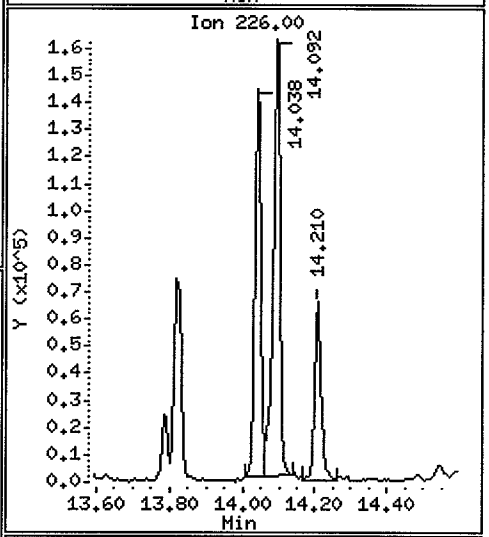


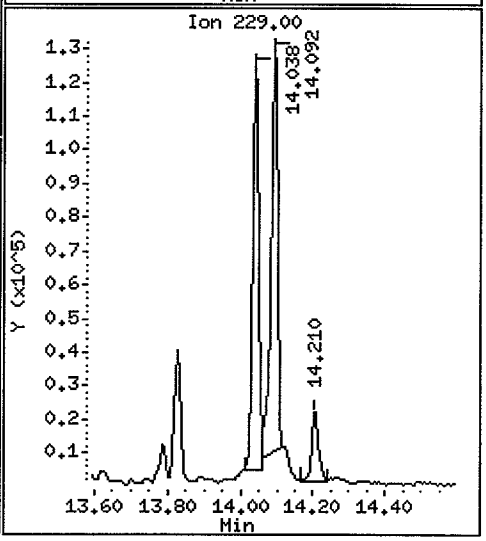












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

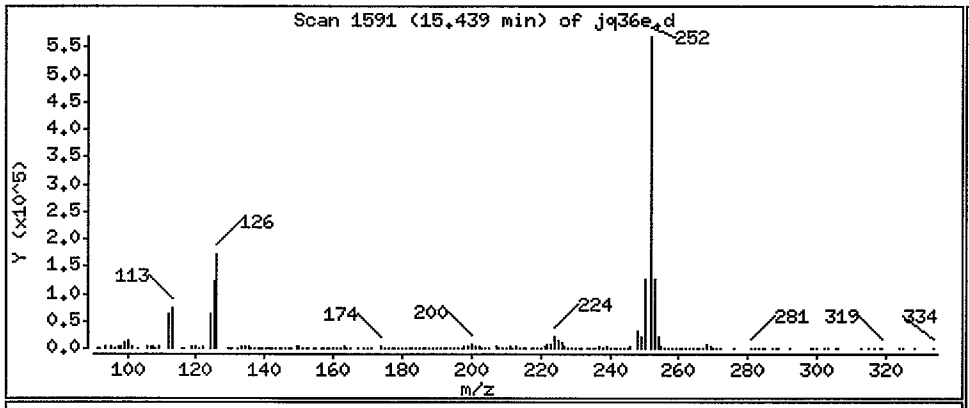
Operator: VTS

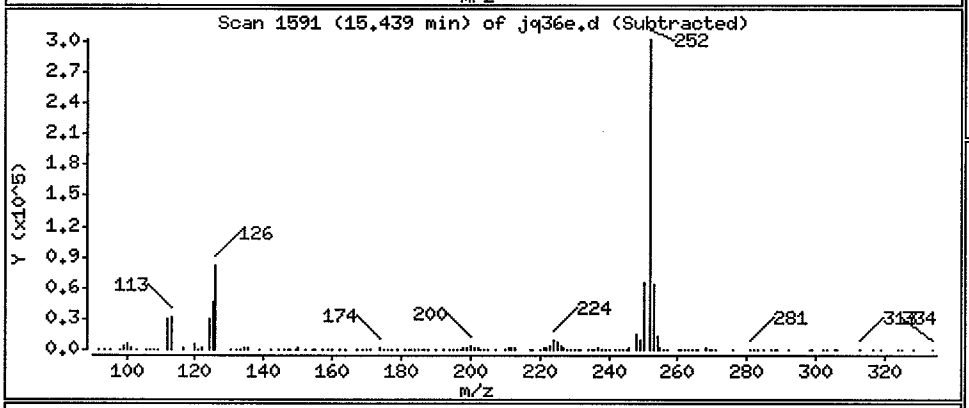
Column phase: ZB-5

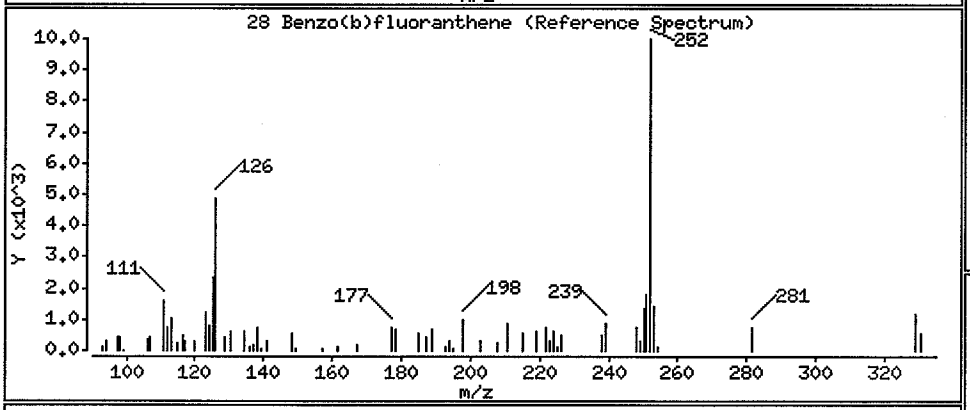
Column diameter: 0.25

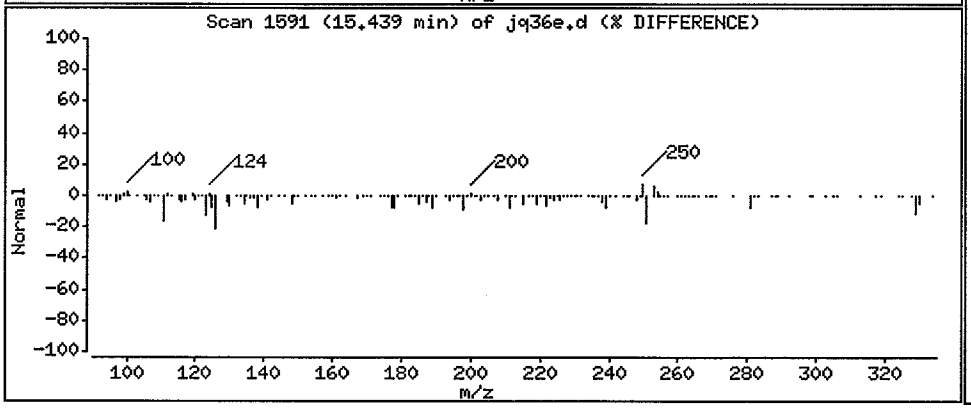
28 Benzo(b)fluoranthene

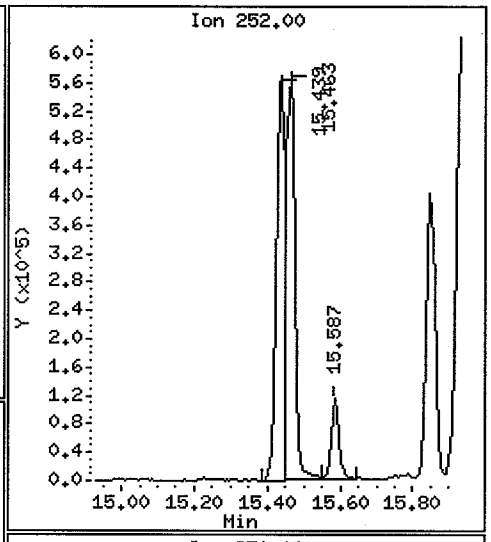
Concentration: 31370 ug/kg

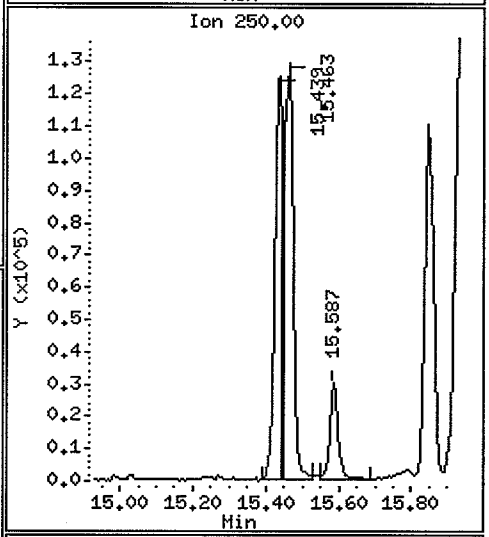


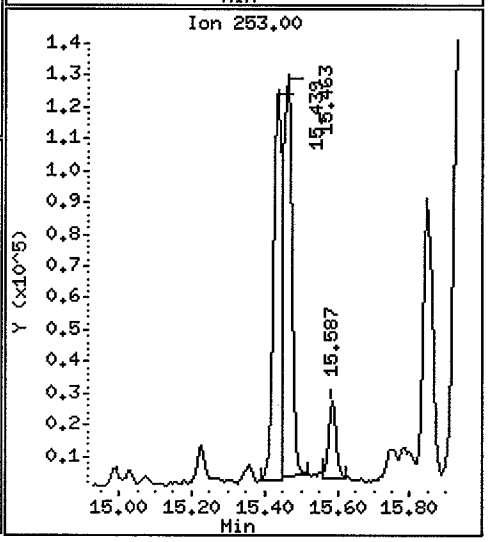












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

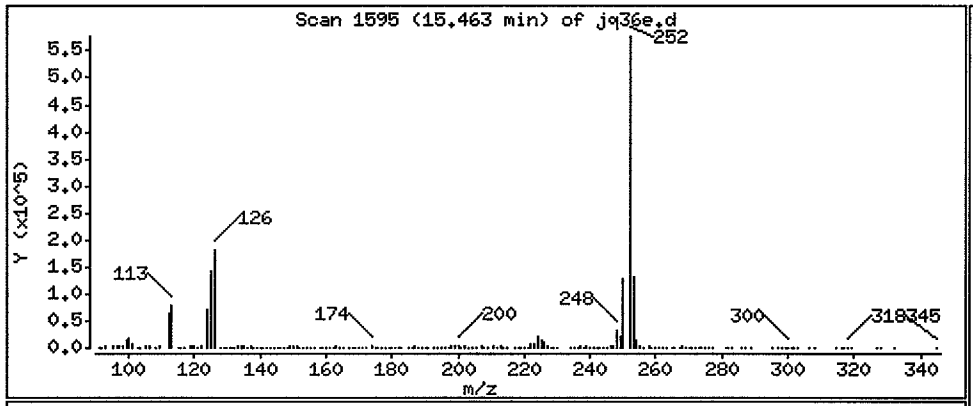
Operator: VTS

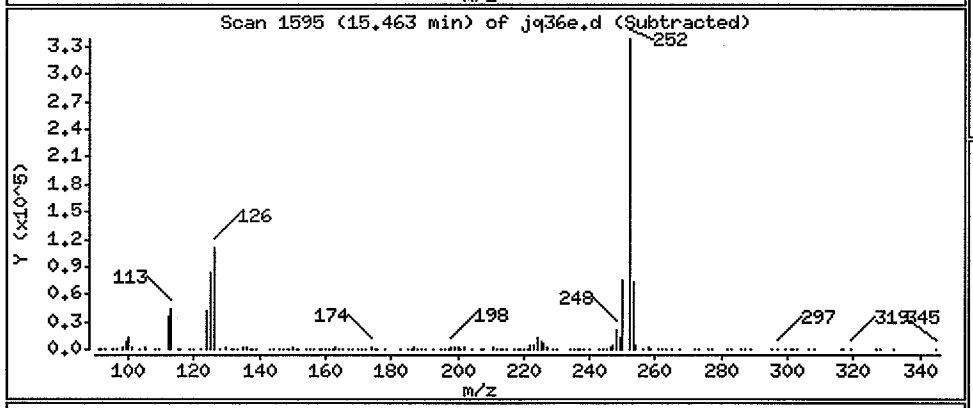
Column phase: ZB-5

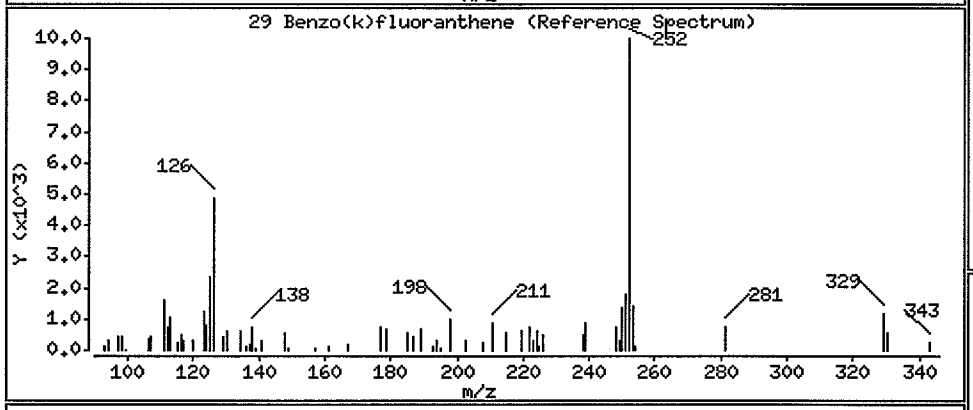
Column diameter: 0.25

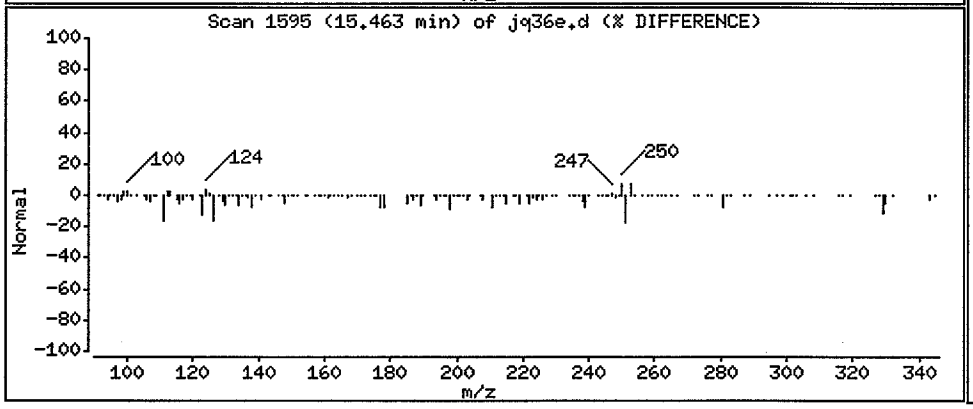
29 Benzo(k)fluoranthene

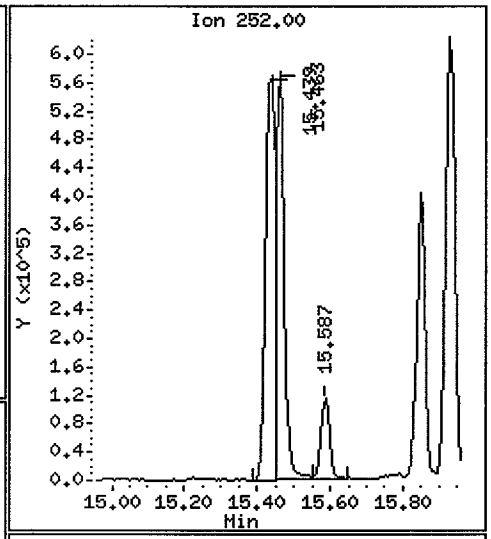
Concentration: 26910 ug/kg

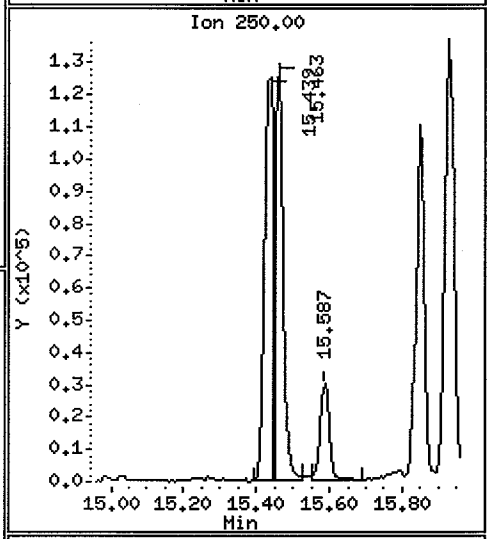


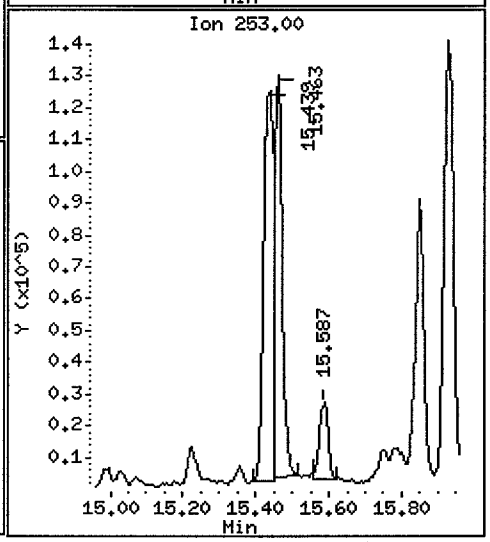












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

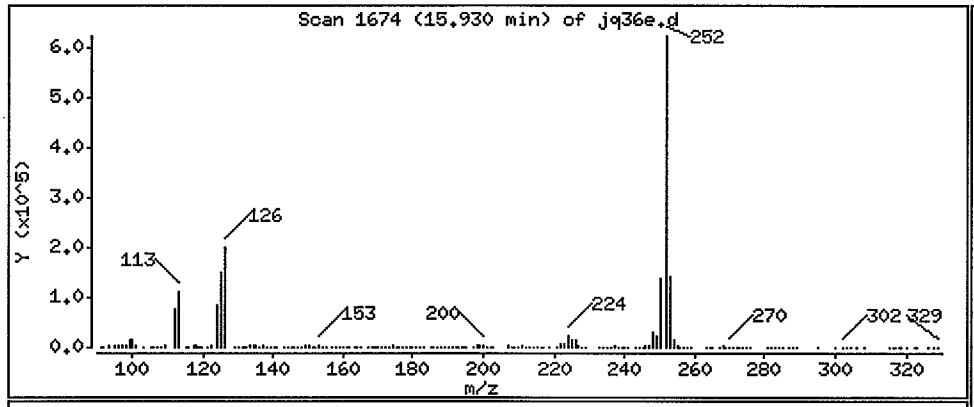
Operator: VTS

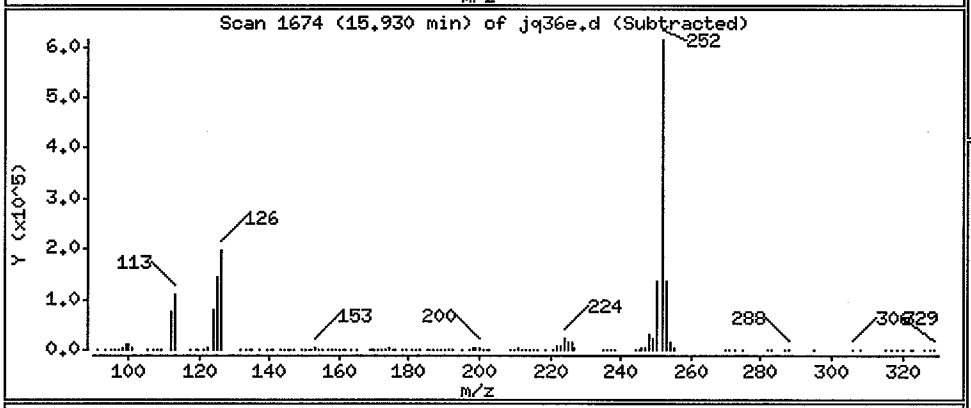
Column phase: ZB-5

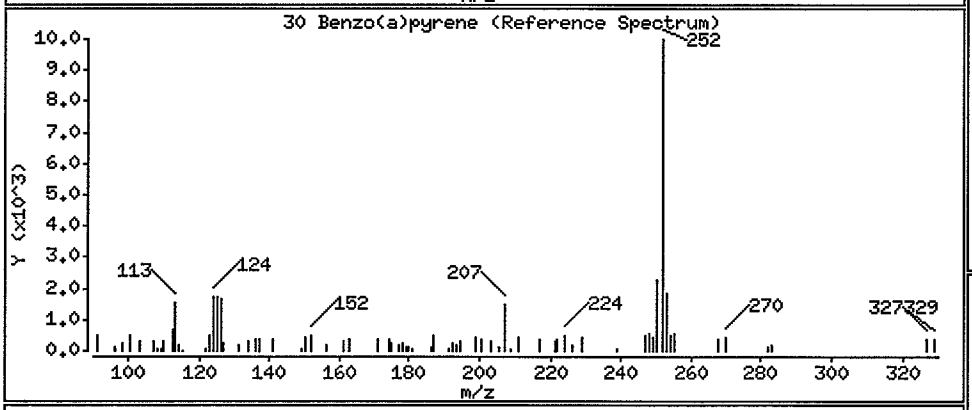
Column diameter: 0.25

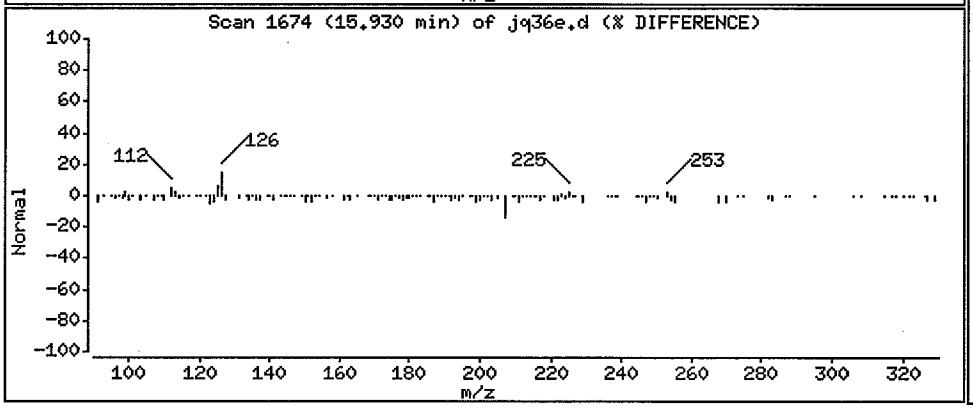
30 Benzo(a)pyrene

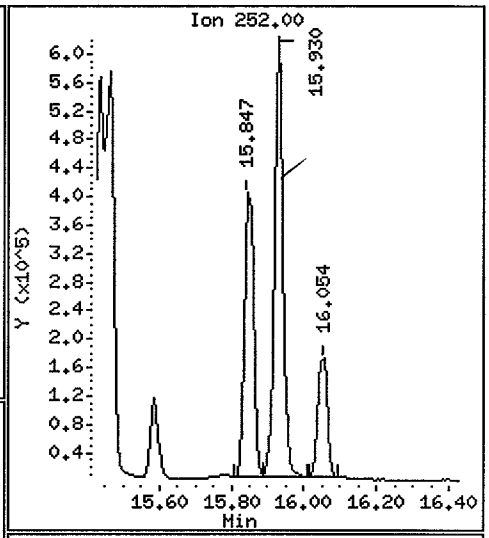
Concentration: 32970 ug/kg

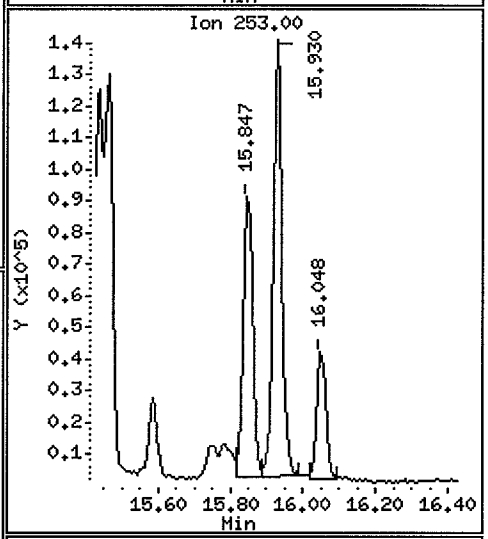


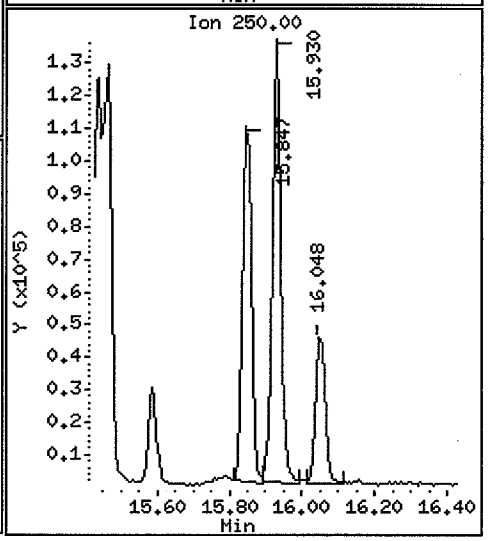












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

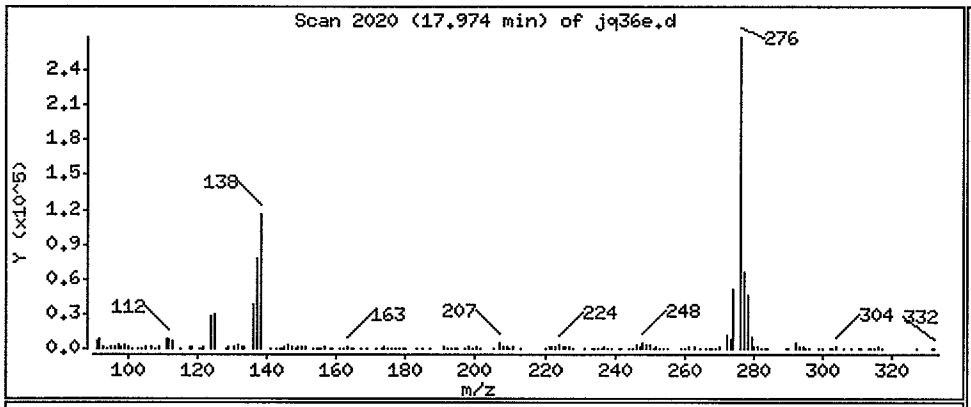
Operator: VTS

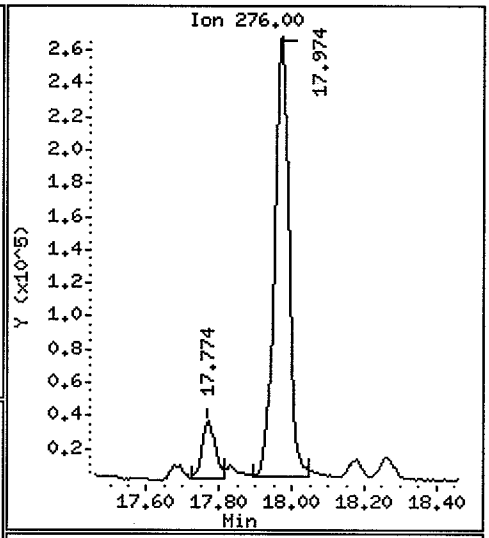
Column phase: ZB-5

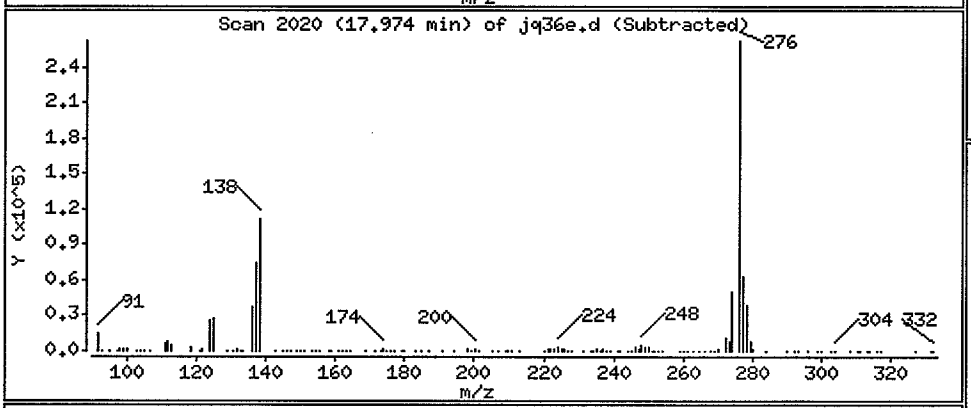
Column diameter: 0.25

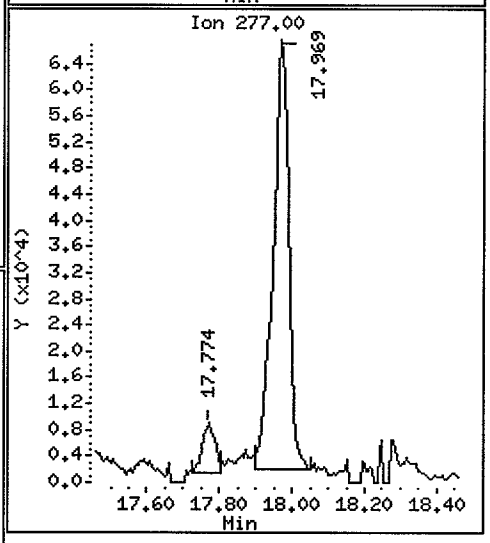
33 Indeno(1,2,3-cd)pyrene

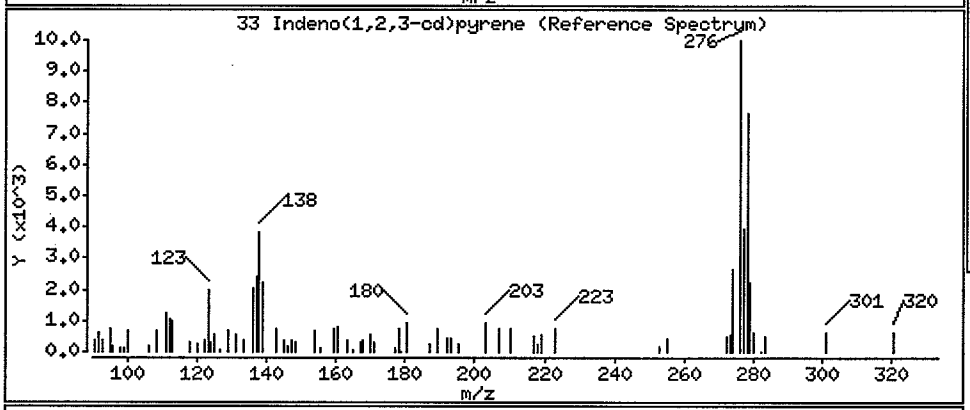
Concentration: 19820 ug/kg

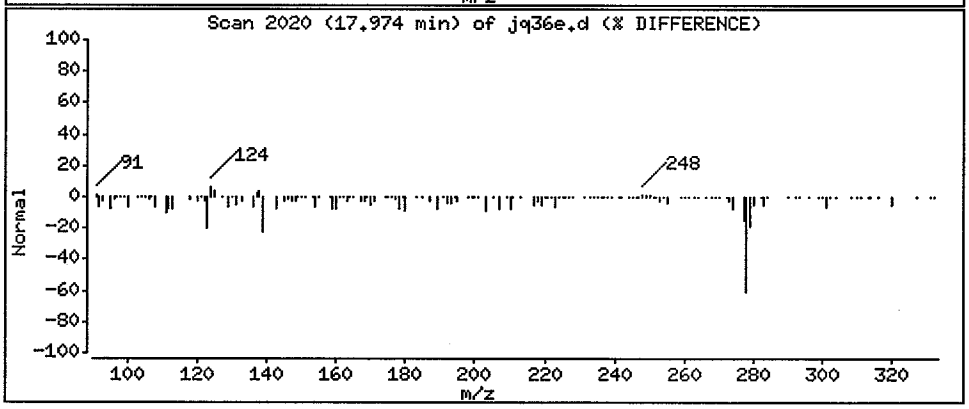












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

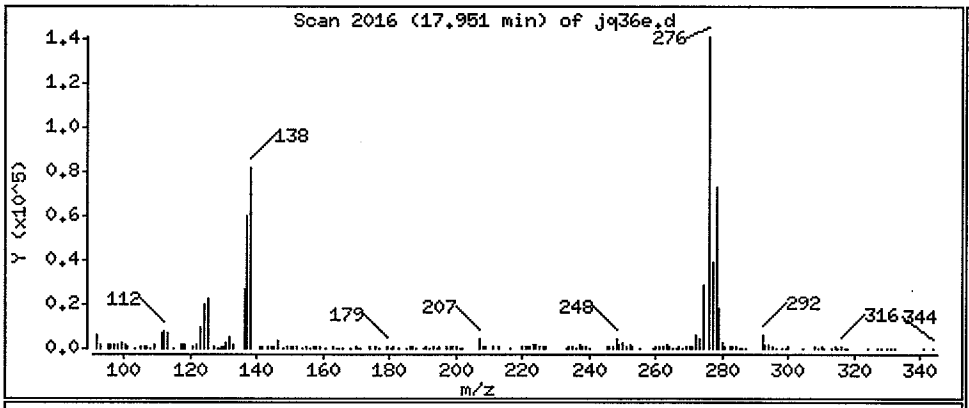
Operator: VTS

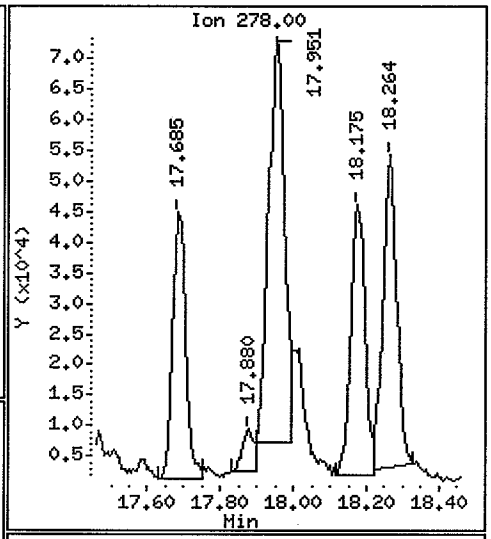
Column phase: ZB-5

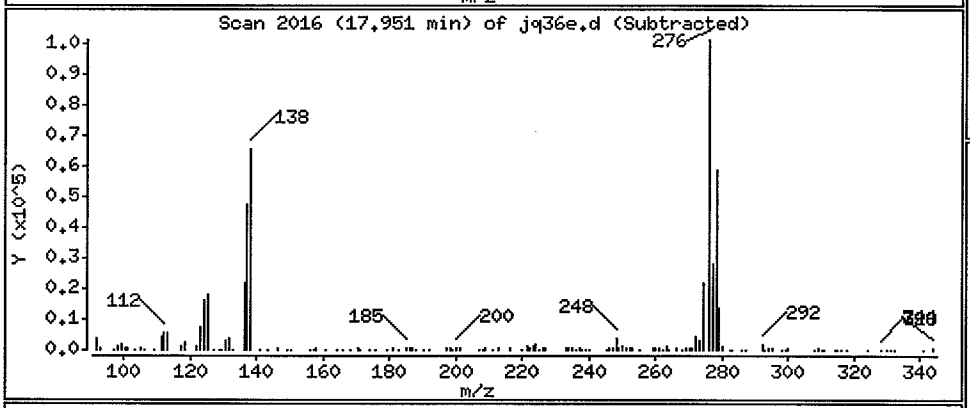
Column diameter: 0.25

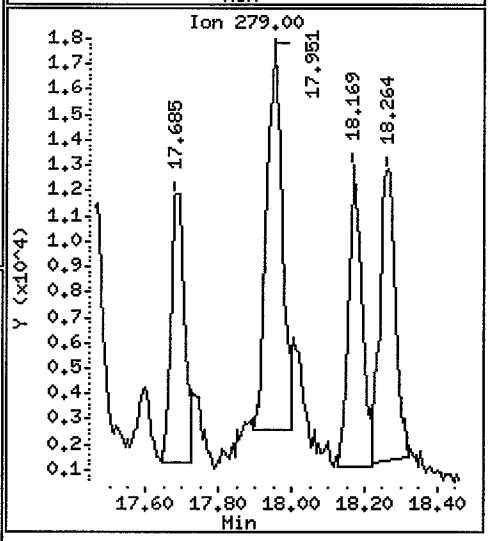
34 Dibenz(a,h)anthracene

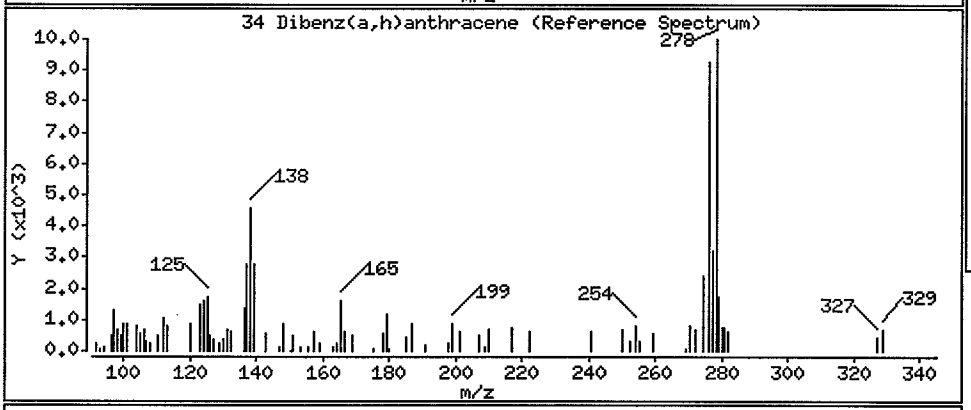
Concentration: 6686 ug/kg

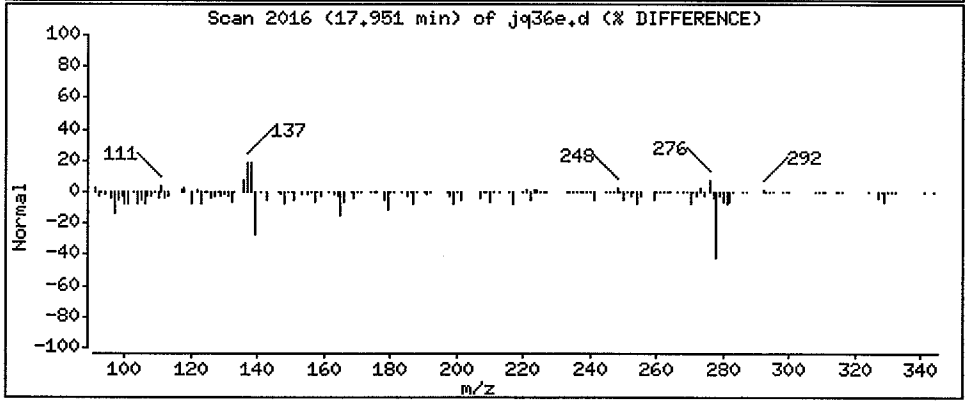












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

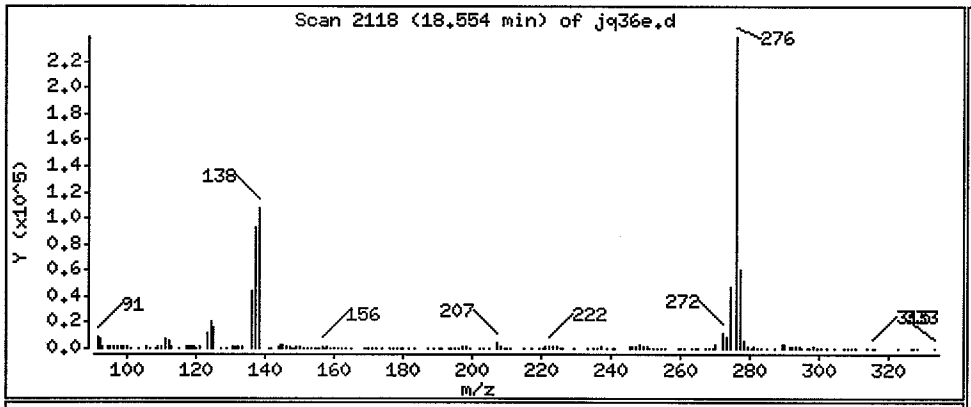
Operator: VTS

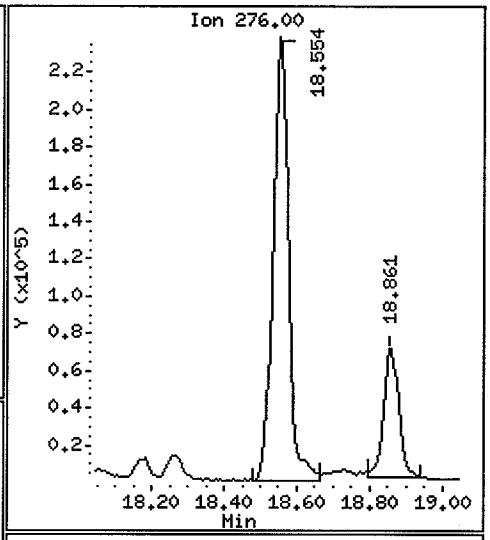
Column phase: ZB-5

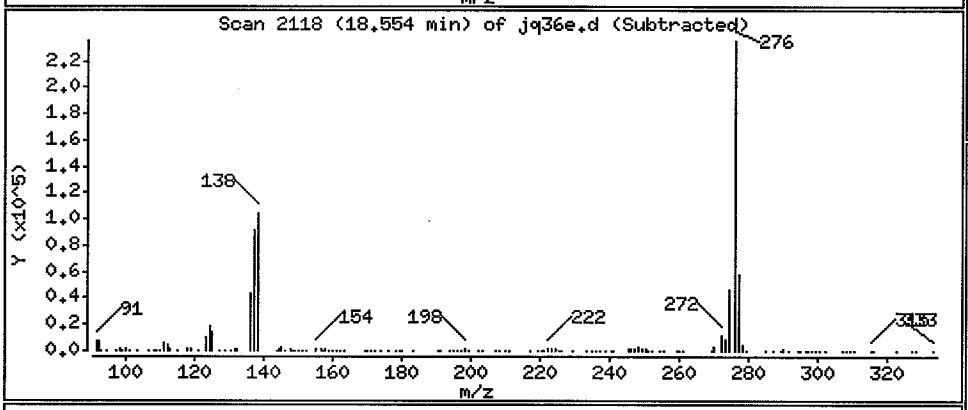
Column diameter: 0.25

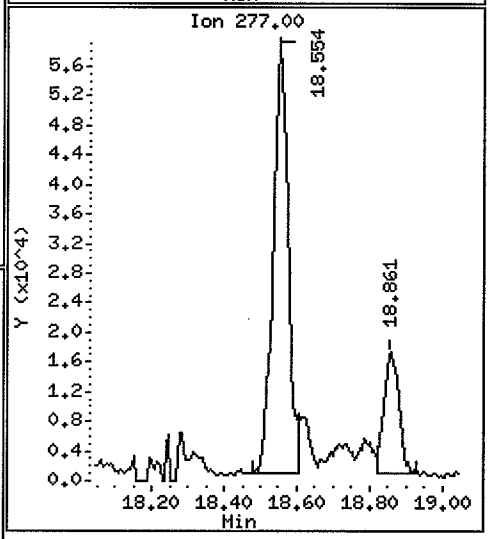
35 Benzo(g,h,i)perylene

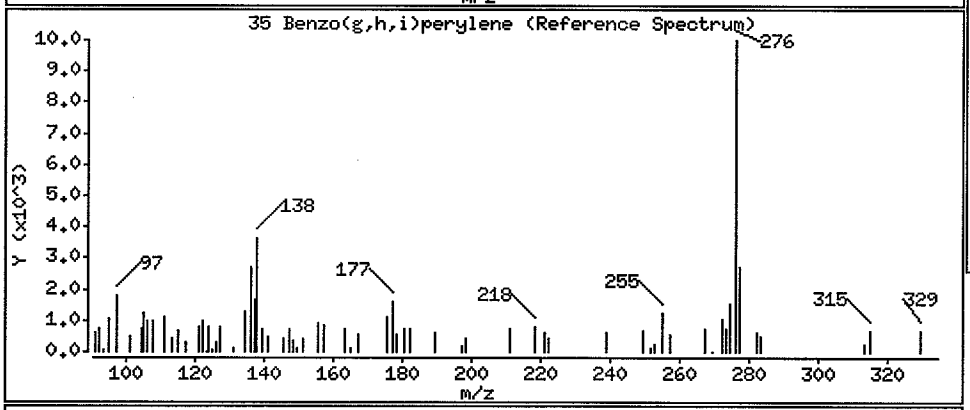
Concentration: 22840 ug/kg

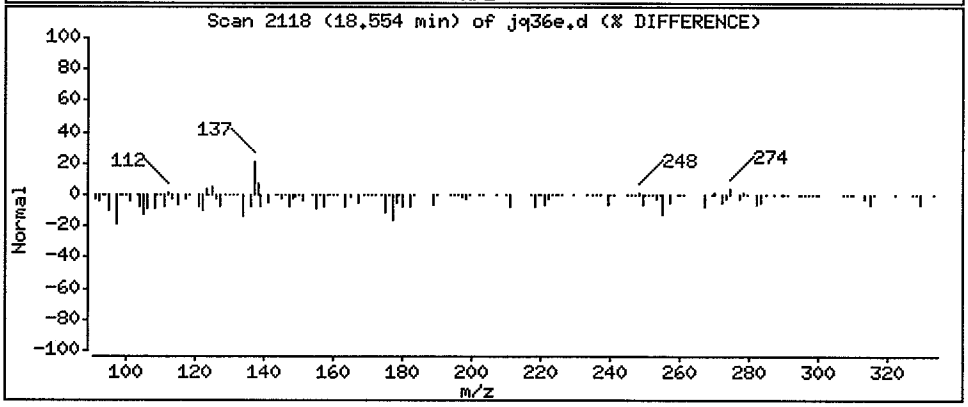












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

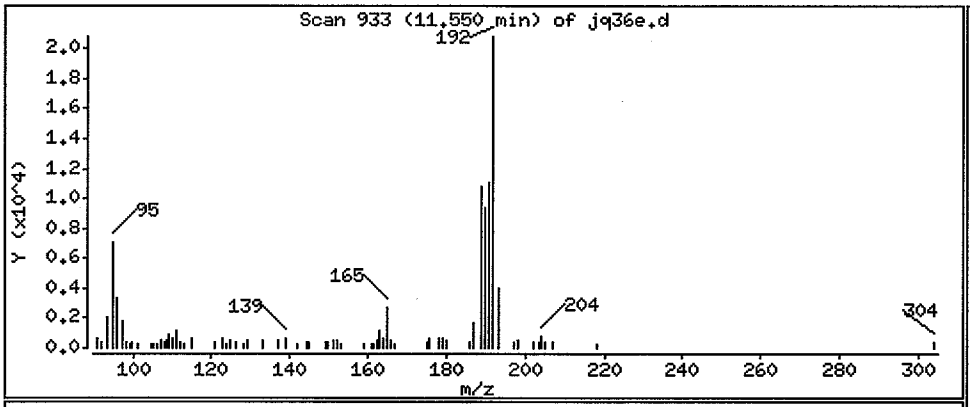
Operator: VTS

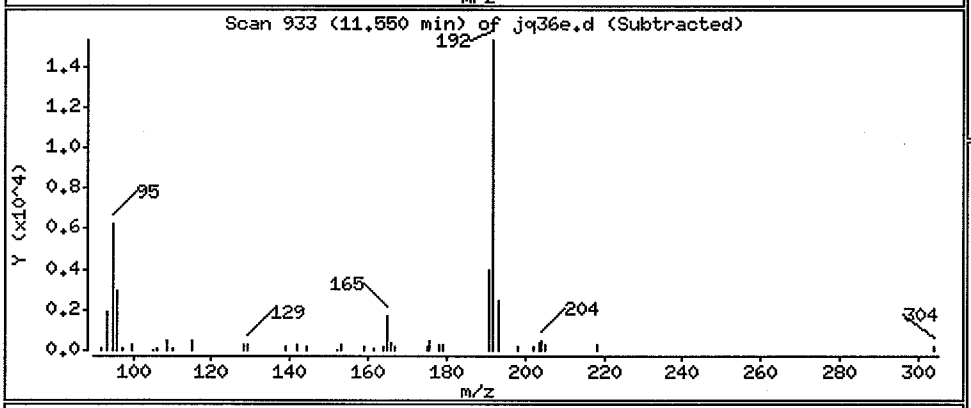
Column phase: ZB-5

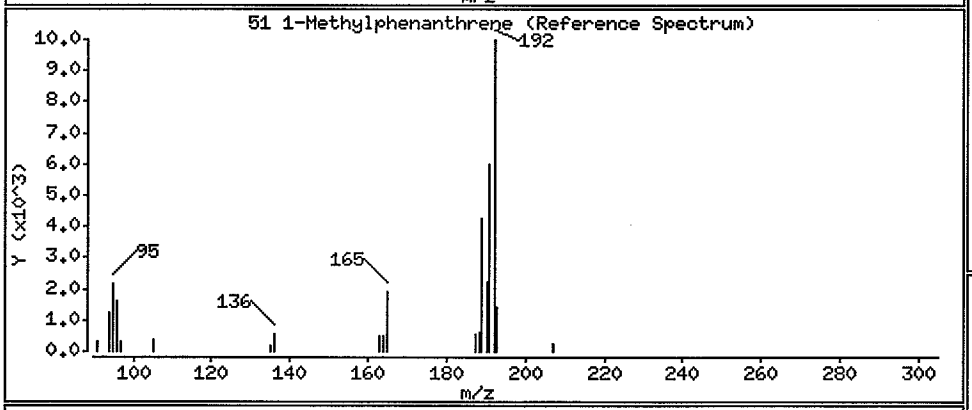
Column diameter: 0.25

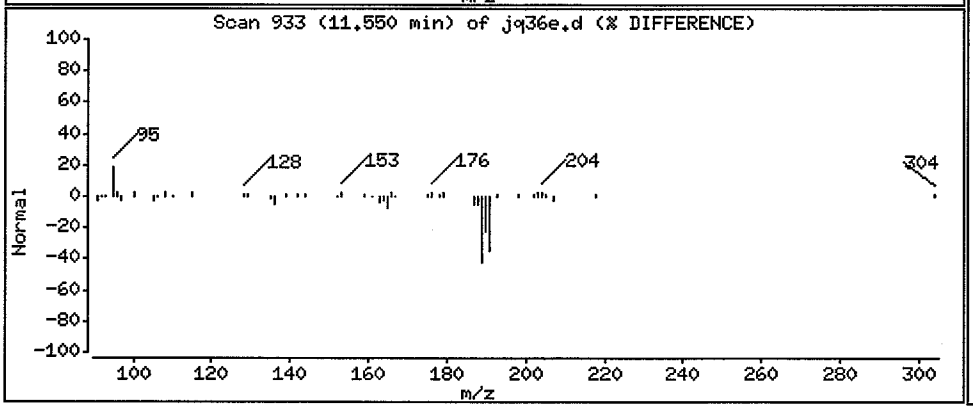
51 1-Methylphenanthrene

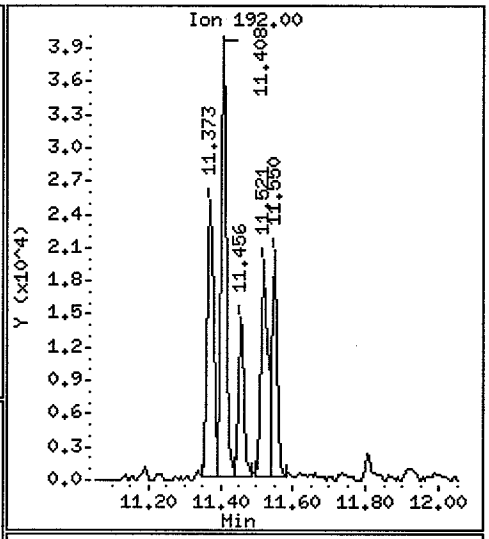
Concentration: 1134 ug/kg

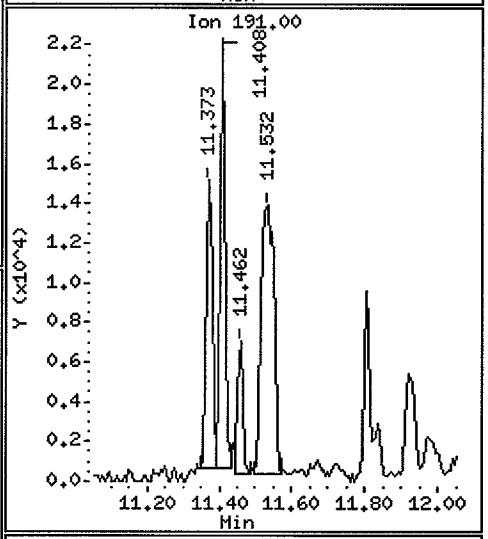


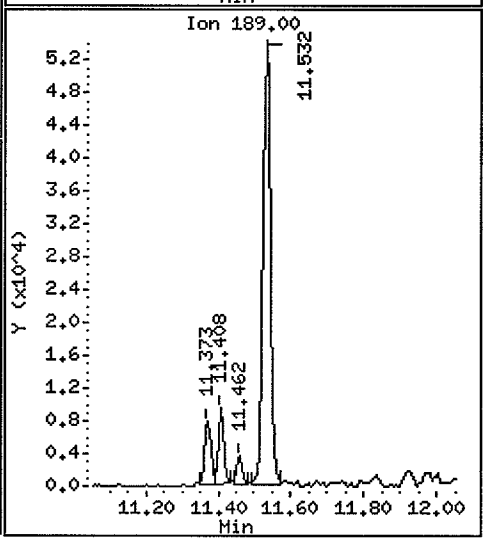












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

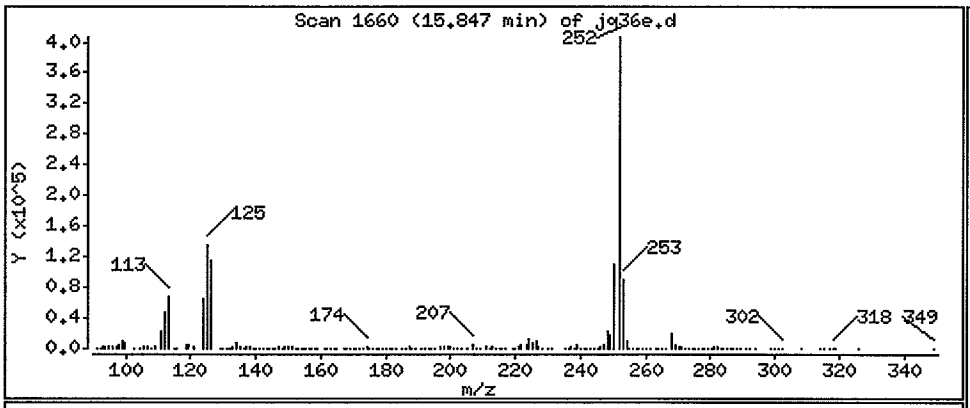
Operator: VTS

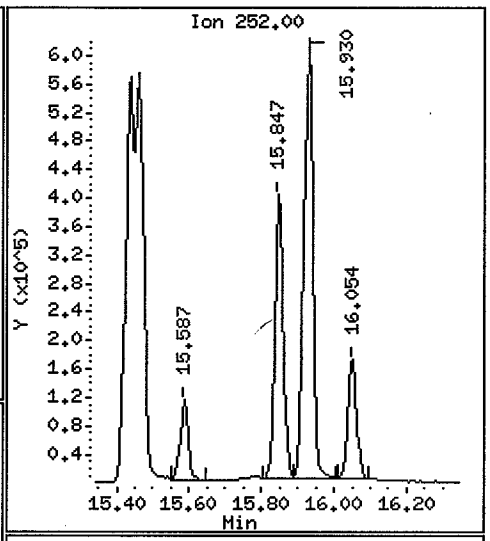
Column phase: ZB-5

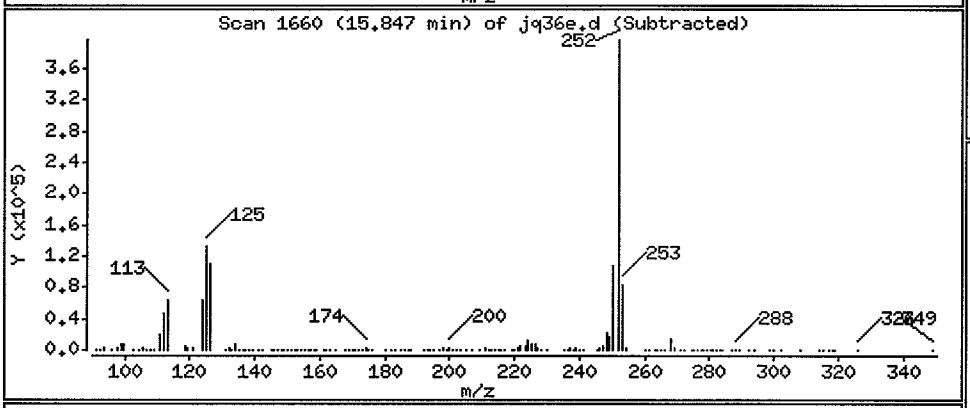
Column diameter: 0.25

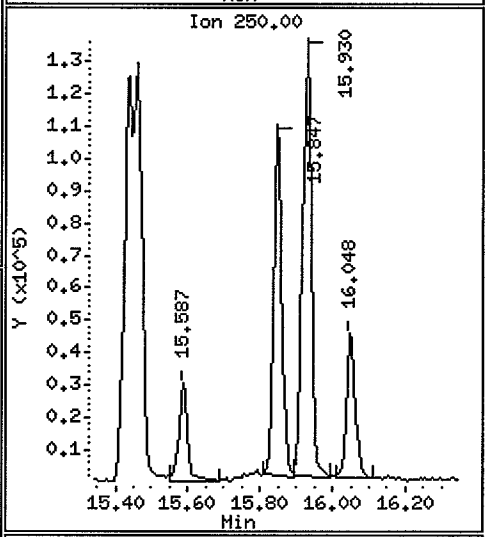
52 Benzo(e)pyrene

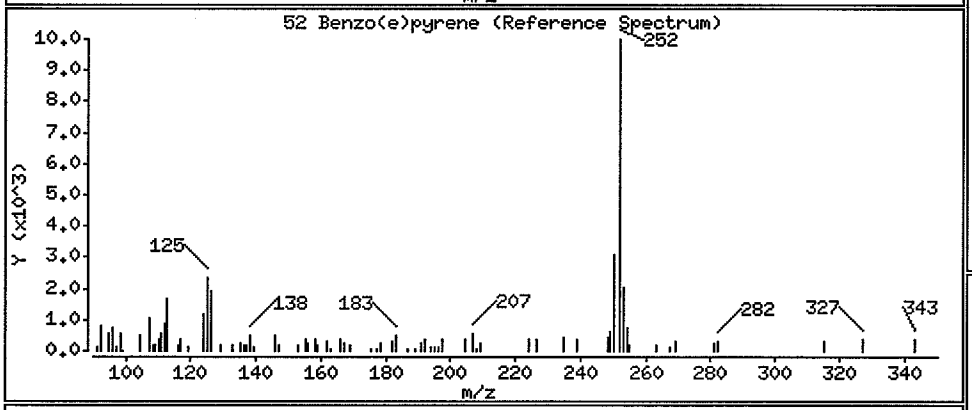
Concentration: 18960 ug/kg

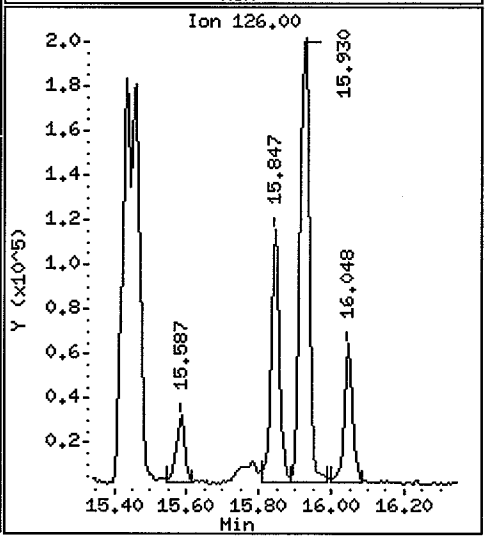


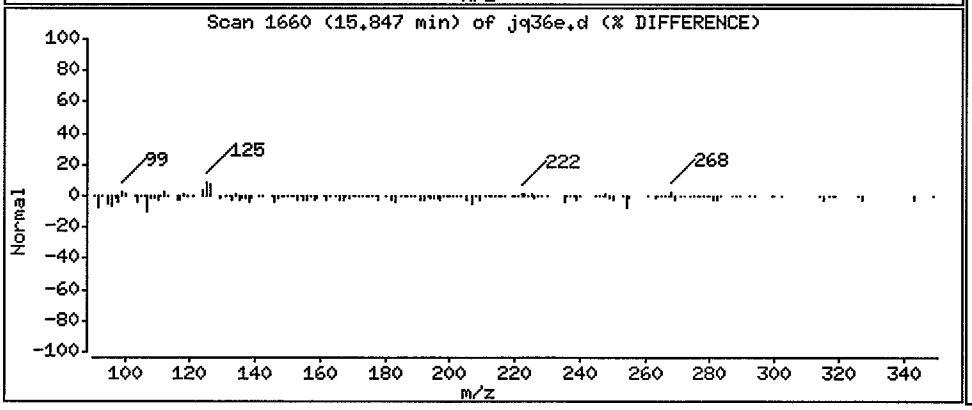












Data File: /chem3/nt1.i/20060809.b/jq36e.d

Date : 09-AUG-2006 12:42

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,10

Volume Injected (uL): 1.0

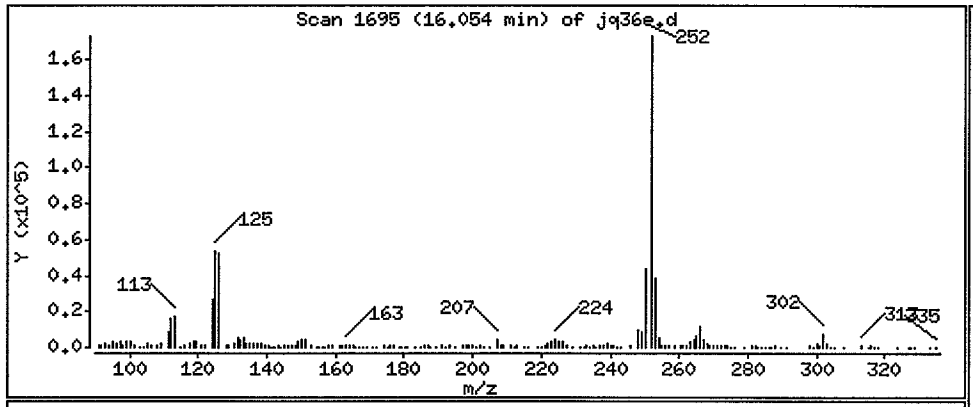
Operator: VTS

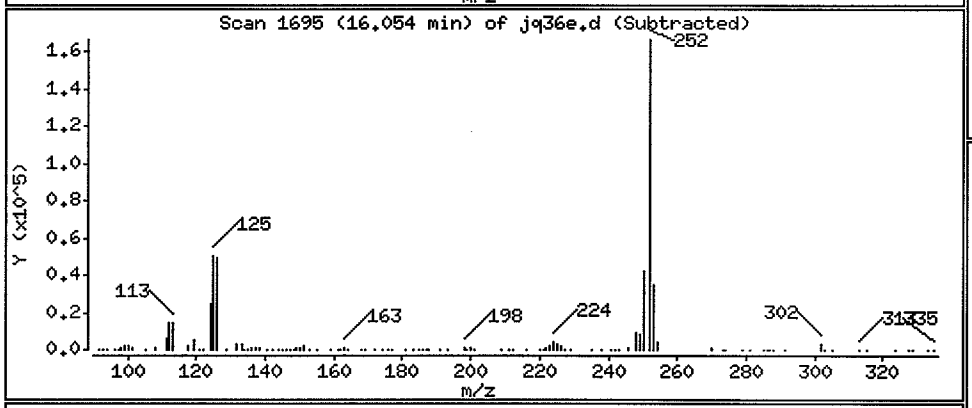
Column phase: ZB-5

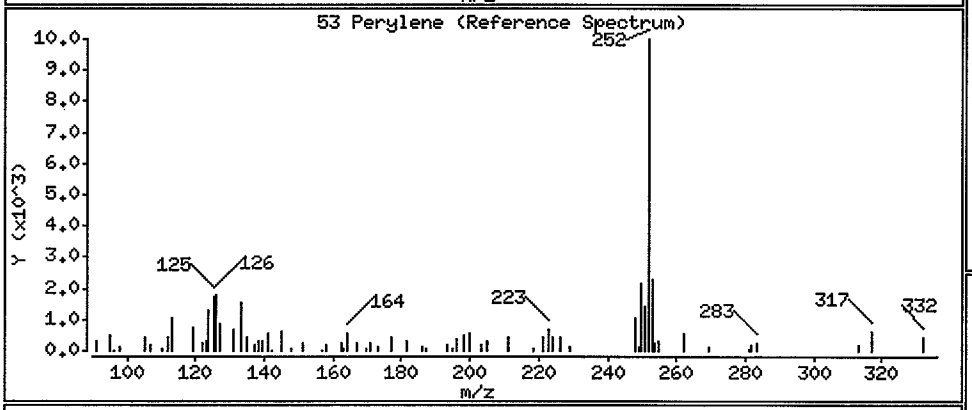
Column diameter: 0.25

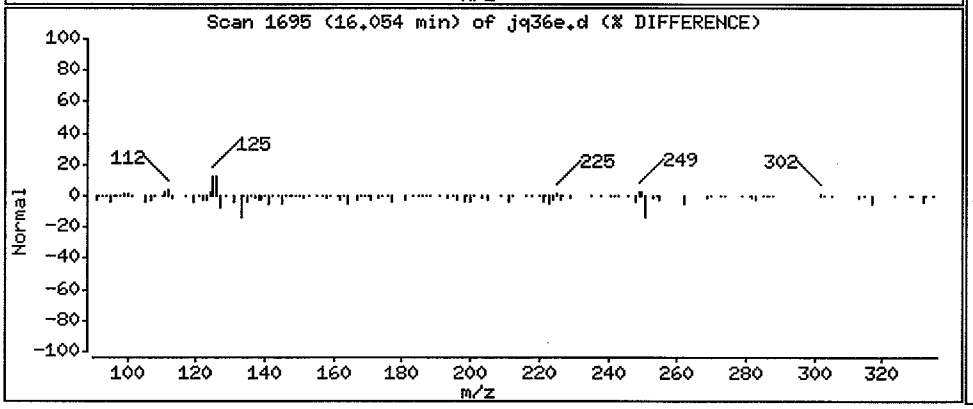
53 Perylene

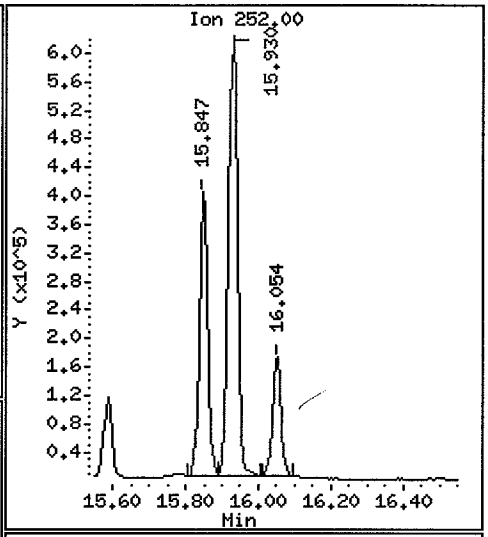
Concentration: 8904 ug/kg

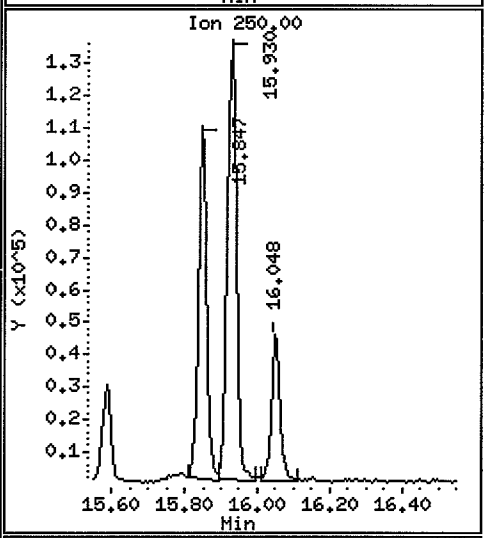


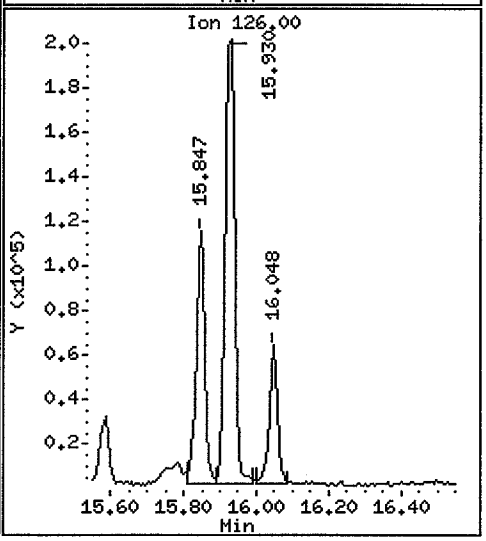












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-04-A
DILUTION

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:06
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.32 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 20.0
Percent Moisture: 34.9%
pH: 7.2

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**760**	**830**	
91-57-6	**2-Methylnaphthalene**	**760**	**530**	**J**
90-12-0	1-Methylnaphthalene	760	< 760	U
208-96-8	Acenaphthylene	760	< 760	U
83-32-9	**Acenaphthene**	**760**	**4,800**	
86-73-7	**Fluorene**	**760**	**2,300**	
85-01-8	**Phenanthrene**	**760**	**19,000**	
120-12-7	**Anthracene**	**760**	**4,200**	
206-44-0	**Fluoranthene**	**760**	**42,000**	
129-00-0	**Pyrene**	**760**	**36,000**	
56-55-3	**Benzo(a)anthracene**	**760**	**26,000**	
218-01-9	**Chrysene**	**760**	**32,000**	
205-99-2	**Benzo(b)fluoranthene**	**760**	**30,000**	
207-08-9	**Benzo(k)fluoranthene**	**760**	**28,000**	
50-32-8	**Benzo(a)pyrene**	**760**	**33,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**760**	**18,000**	
53-70-3	**Dibenz(a,h)anthracene**	**760**	**6,400**	
191-24-2	**Benzo(g,h,i)perylene**	**760**	**19,000**	
198-55-0	**Perylene**	**760**	**9,100**	
92-52-4	Biphenyl	760	< 760	U
581-42-0	2,6-Dimethylnaphthalene	760	< 760	U
832-69-9	**1-Methylphenanthrene**	**760**	**1,400**	
192-97-2	**Benzo(e)pyrene**	**760**	**19,000**	
2245-38-7	2,3,5-Trimethylnaphthalene	760	< 760	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracen	68.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36edl.d
Lab Smp Id: JQ36EDL Client Smp ID: T4-S3-04-A
Inj Date : 10-AUG-2006 17:06
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36E,20
Misc Info : 06-12976
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 5
Dil Factor: 20.00000
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	20.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	2.03000	Weight of sample extracted (g)
M	34.90000	% 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	6.873	6.874	(1.000)	267048	2.00000	
	2 Naphthalene	128	6.896	6.898	(1.003)	14031	0.10534	797.1
$	3 2-Methylnaphthalene-d10	152	7.629	7.630	(1.110)	7556	0.10985	831.3
	4 2-Methylnaphthalene	142	7.665	7.666	(1.115)	5288	0.06704	507.3 J
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.935	8.937	(1.000)	128258	2.00000	
	9 Acenaphthene	153	8.971	8.972	(1.004)	39695	0.63031	4770
	10 Dibenzofuran	168	9.160	9.161	(1.025)	11268	0.12147	919.2
	11 Fluorene	166	9.585	9.587	(1.073)	21825	0.30222	2287
*	15 Phenanthrene-d10	188	10.744	10.745	(1.000)	196888	2.00000	
	16 Phenanthrene	178	10.773	10.775	(1.003)	248912	2.46302	18640
	17 Anthracene	178	10.832	10.828	(1.008)	56311	0.55758	4219
	19 Fluoranthene	202	12.269	12.270	(1.142)	576021	5.58820	42290

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.558	12.554	(0.893)	566165	4.70908	35630
	22 Benzo(a)anthracene	228	14.036	14.037	(0.998)	386525	3.42817	25940
*	23 Chrysene-d12	240	14.059	14.055	(1.000)	187234	2.00000	
	24 Chrysene	228	14.089	14.090	(1.002)	436609	4.19836	31770
	28 Benzo(b)fluoranthene	252	15.431	15.426	(0.964)	510377	3.95443	29920
	29 Benzo(k)fluoranthene	252	15.454	15.455	(0.966)	502925	3.65511	27660
	30 Benzo(a)pyrene	252	15.921	15.916	(0.995)	550895	4.38050	33150
*	31 Perylene-d12	264	16.004	15.999	(1.000)	228685	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.954	17.949	(1.122)	338397	2.33983	17710
$	32 Dibenz(a,h)anthrancene-d14	292	17.871	17.873	(1.117)	8924	0.10198	771.7(M)
	34 Dibenz(a,h)anthracene	278	17.942	17.944	(1.121)	100621	0.85165	6444
	35 Benzo(g,h,i)perylene	276	18.539	18.529	(1.158)	302455	2.51584	19040
	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	11.548	11.549	(0.821)	13467	0.17571	1330
	52 Benzo(e)pyrene	252	15.844	15.840	(0.990)	340807	2.44820	18530
	53 Perylene	252	16.045	16.040	(1.003)	156996	1.20114	9089

QC Flag Legend

M - Compound response manually integrated.

VTS

8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36edl.d
Lab Smp Id: JQ36EDL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12976

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-S3-04-A
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	267048	5.47
8 Acenaphthene-d10	122198	61099	244396	128258	4.96
15 Phenanthrene-d10	181565	90782	363130	196888	8.44
23 Chrysene-d12	143956	71978	287912	187234	30.06
31 Perylene-d12	157395	78698	314790	228685	45.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.02
8 Acenaphthene-d10	8.94	8.44	9.44	8.94	-0.01
15 Phenanthrene-d10	10.75	10.25	11.25	10.74	-0.01
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.03
31 Perylene-d12	16.00	15.50	16.50	16.00	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

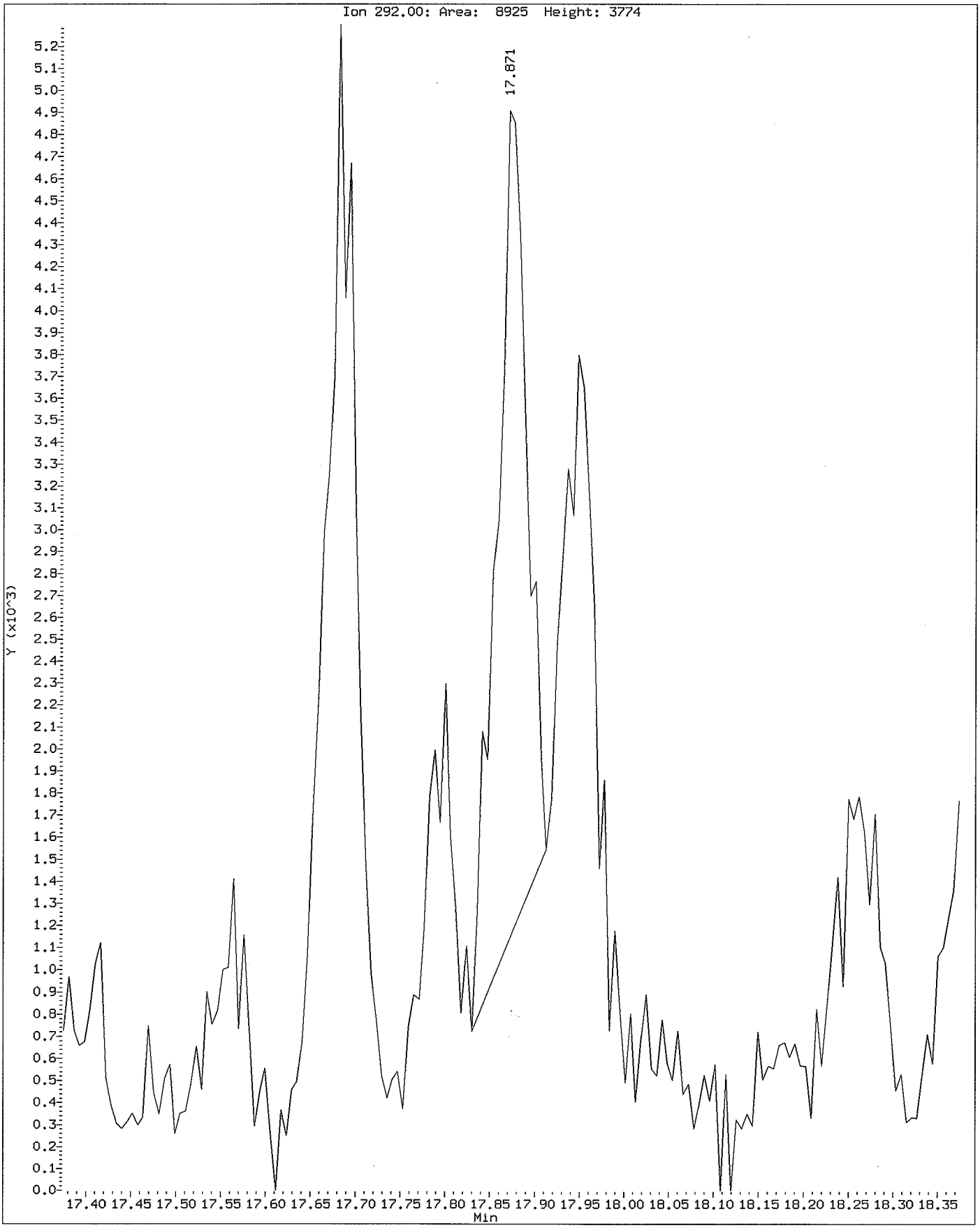
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36EDL
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12976

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-04-A
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	1135	831.3	73.24	32-97
$ 32 Dibenz(a,h)anthran	1135	771.7	67.99	21-105

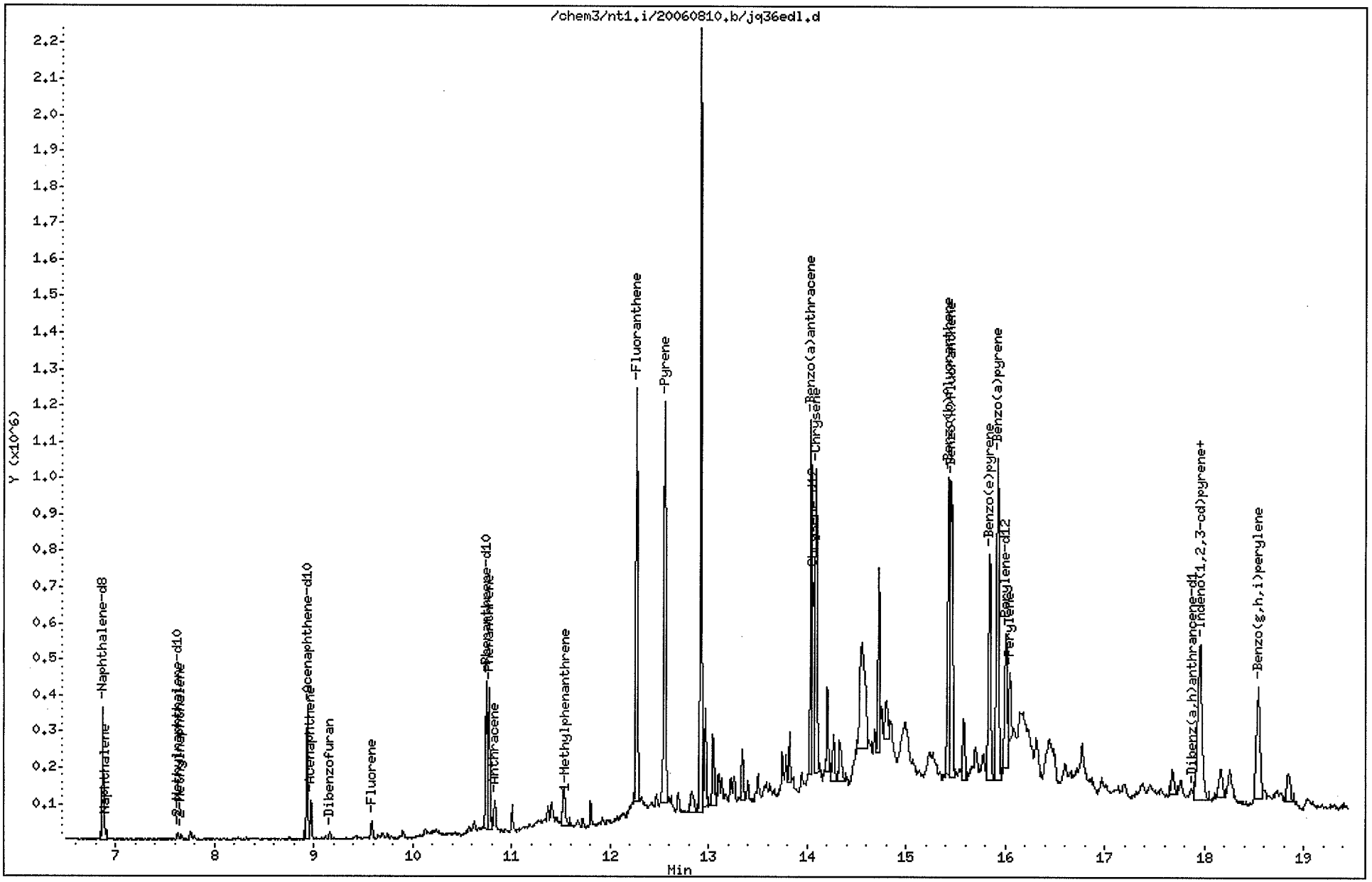
Data File: /chem3/nt1.i/20060810.b/jq36ed1.d
Injection Date: 10-AUG-2006 17:06
Instrument: nt1.i
Client Sample ID: T4-S3-04-A

Compound: Dibenz(a,h)anthrancene-d14
CAS Number:



Data File: /chem3/nt1.i/20060810.b/jq36ed1.d
Date : 10-AUG-2006 17:06
Client ID: T4-S3-04-A
Sample Info: JQ36E,20
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0267

Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

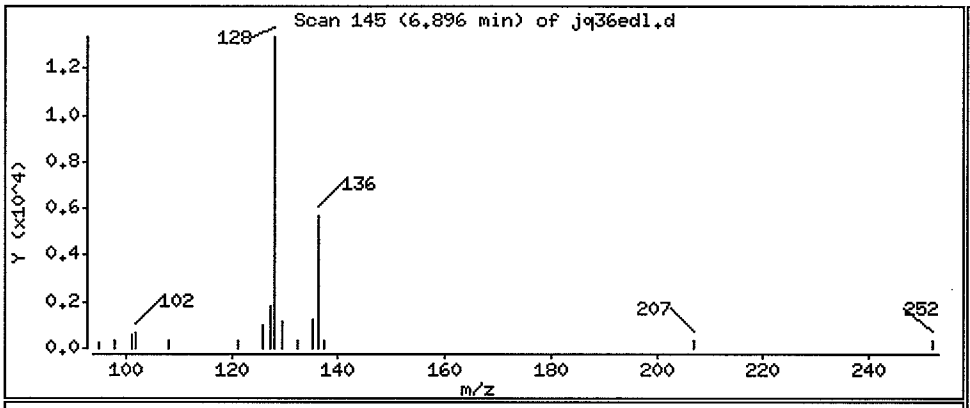
Operator: VTS

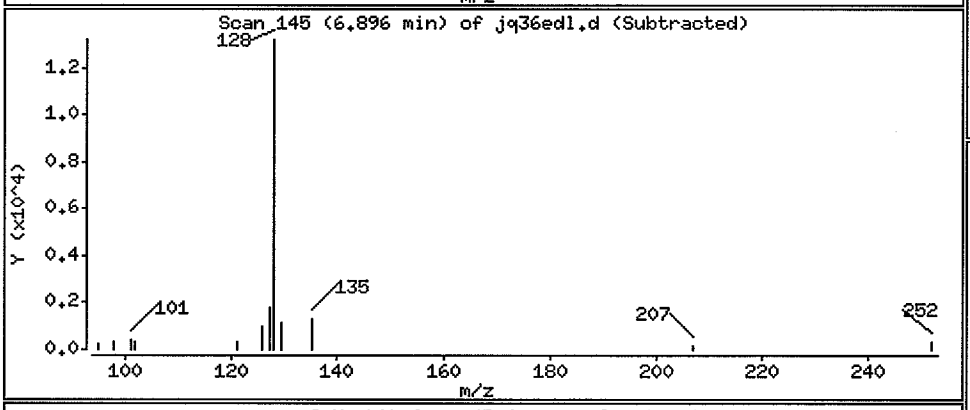
Column phase: ZB-5

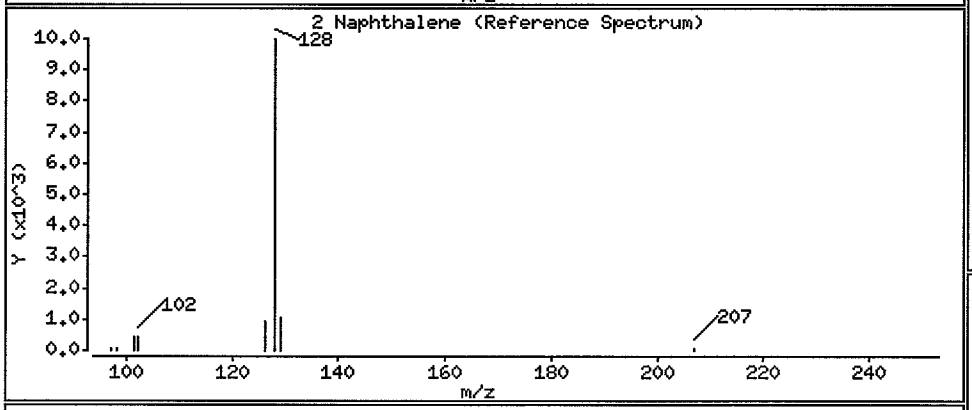
Column diameter: 0.25

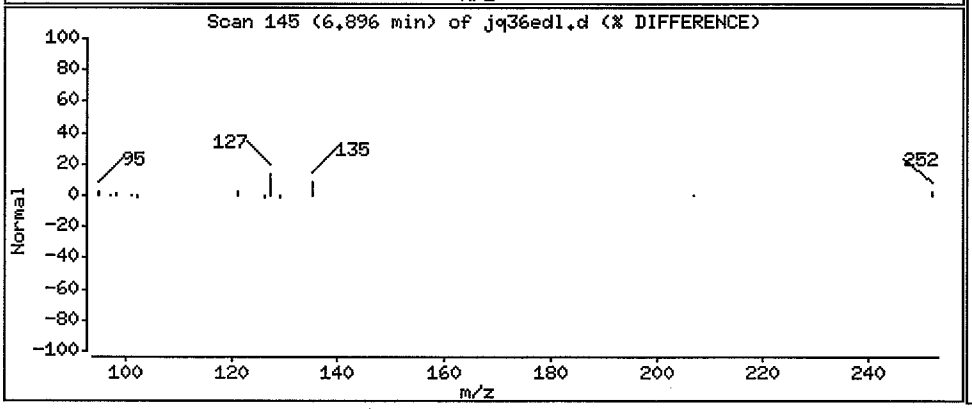
2 Naphthalene

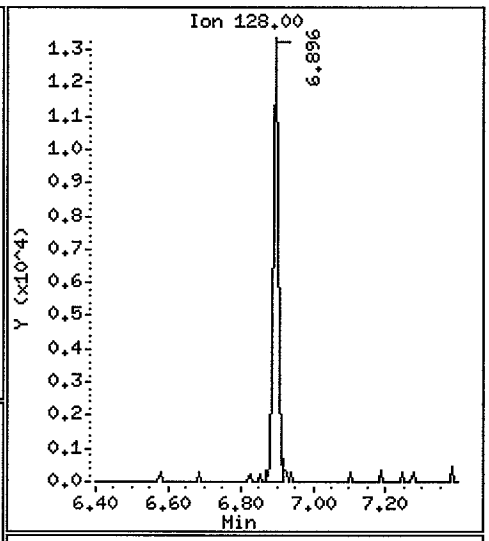
Concentration: 797.1 ug/kg

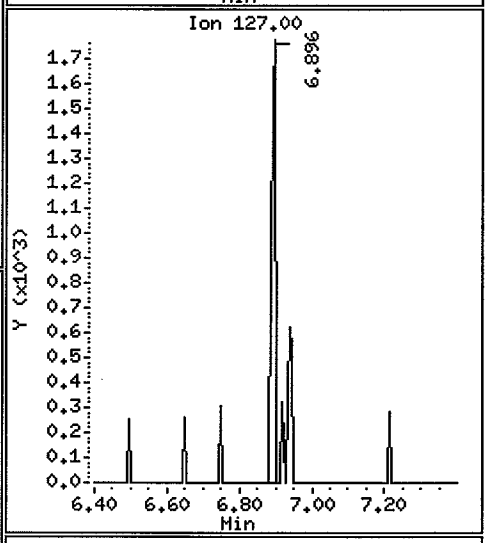


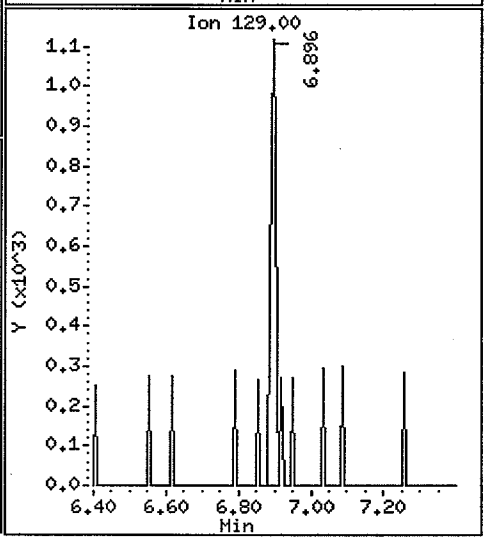












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

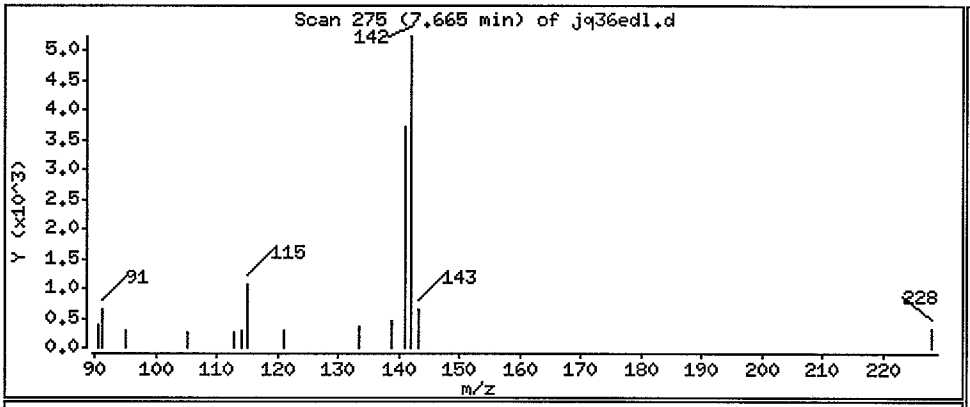
Operator: VTS

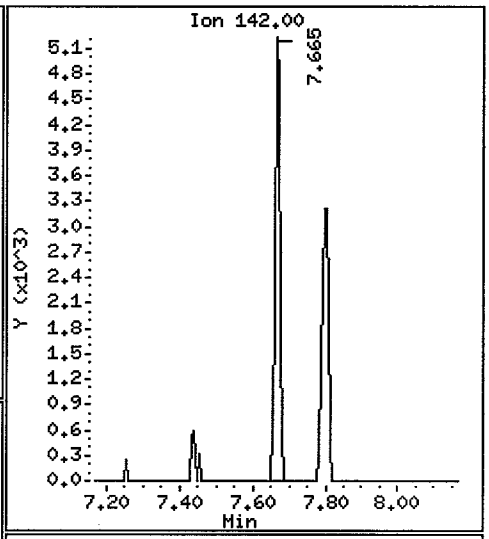
Column phase: ZB-5

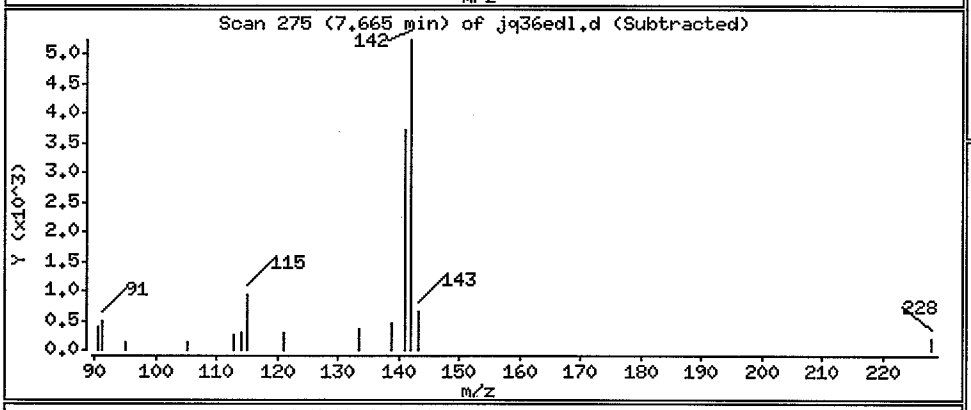
Column diameter: 0.25

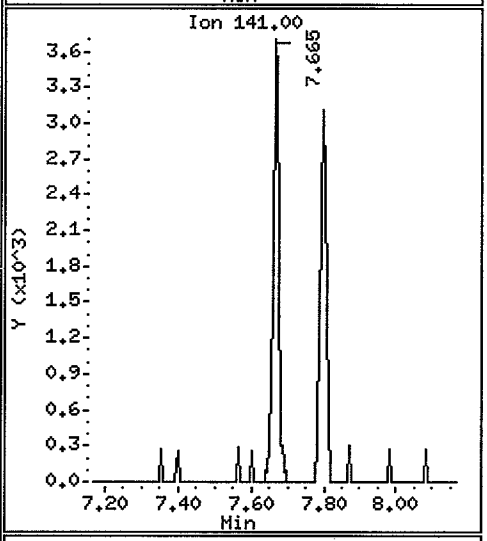
4 2-Methylnaphthalene

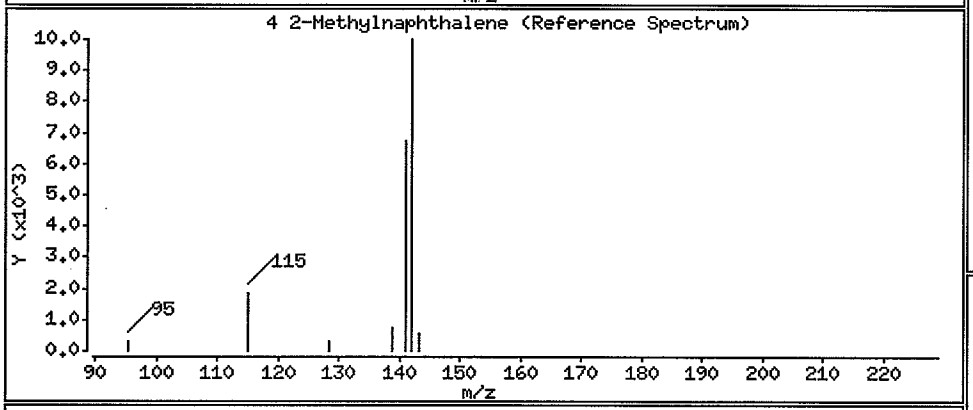
Concentration: 507.3 ug/kg

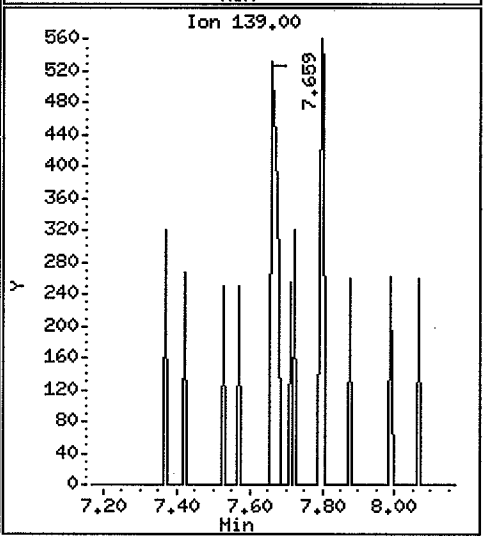


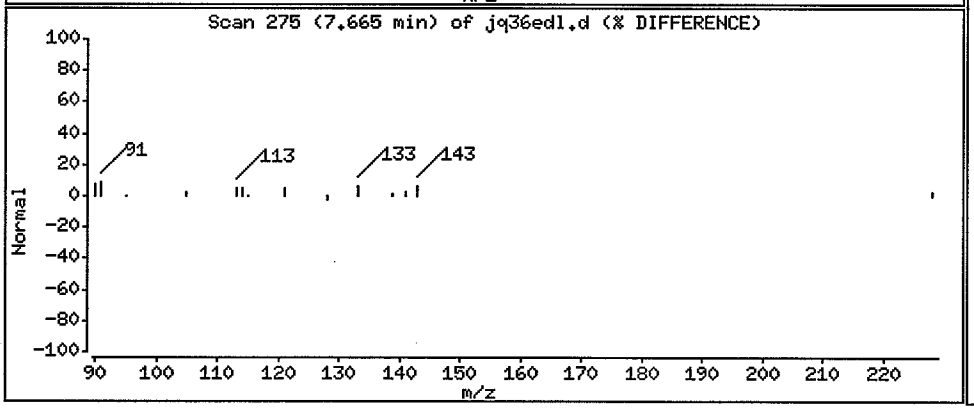












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

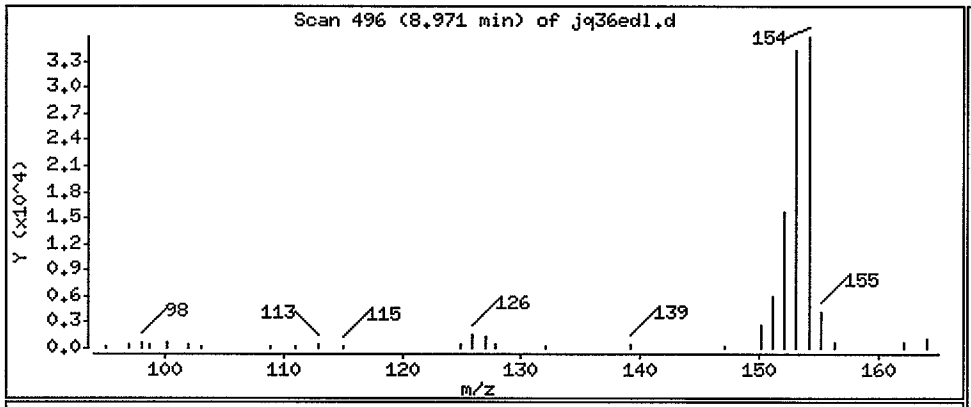
Operator: VTS

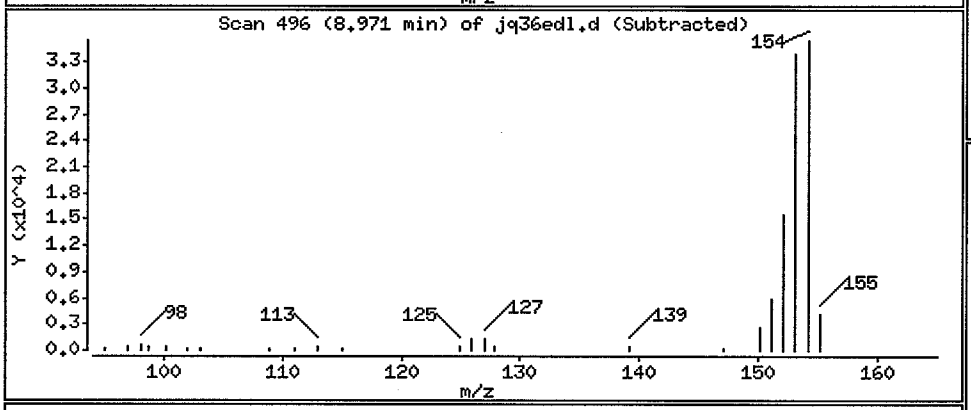
Column phase: ZB-5

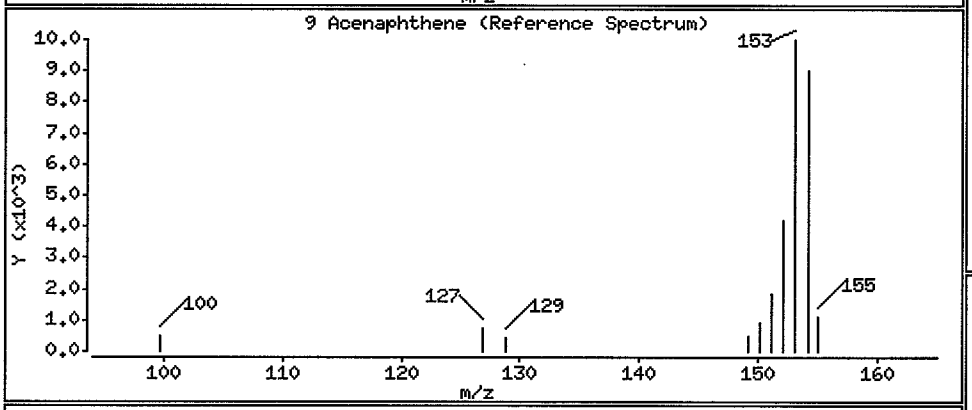
Column diameter: 0.25

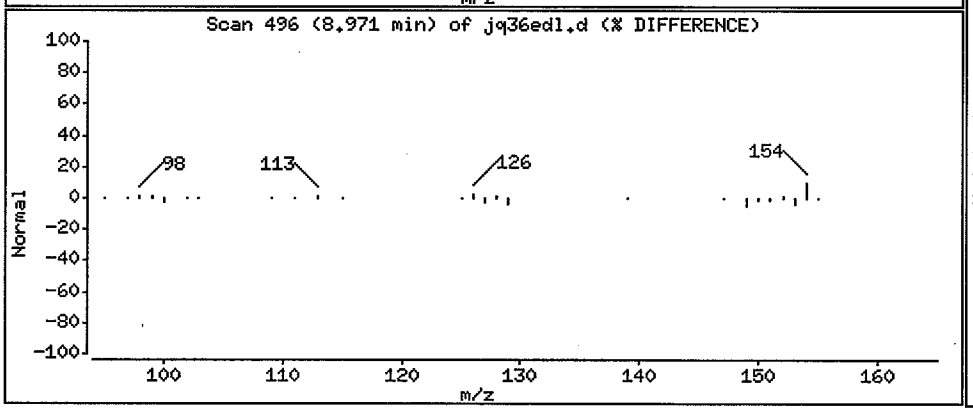
9 Acenaphthene

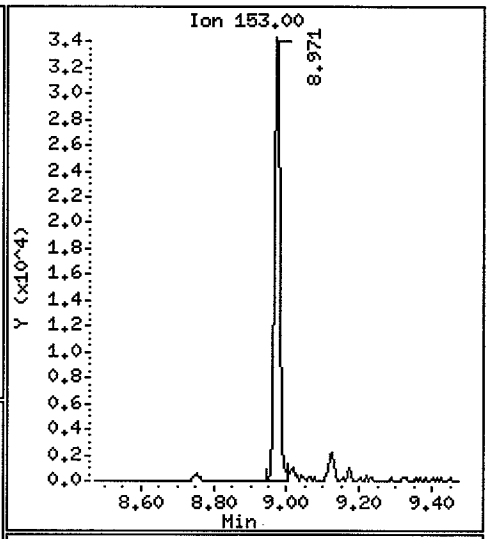
Concentration: 4770 ug/kg

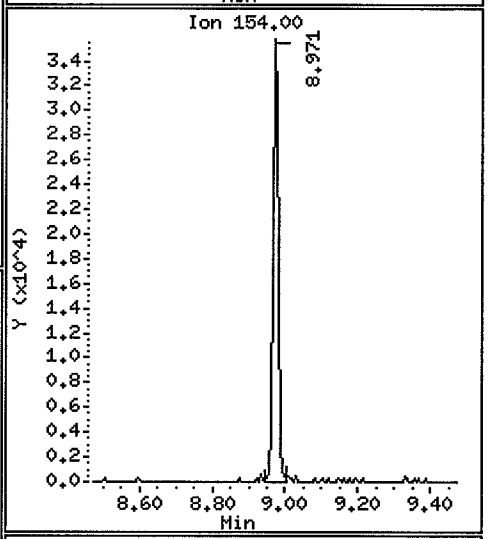


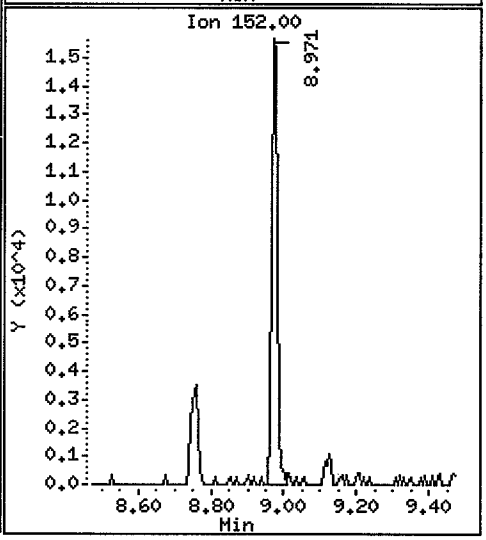












Data File: /chem3/nt1.i/20060810.b/jq36edl.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

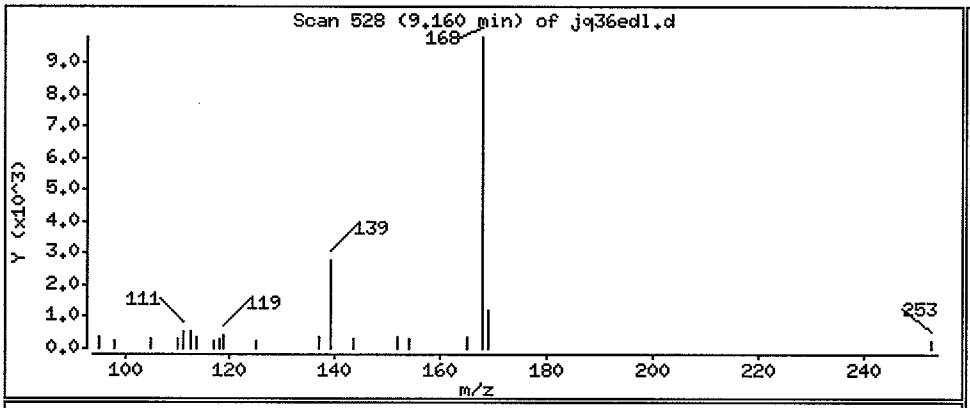
Operator: VTS

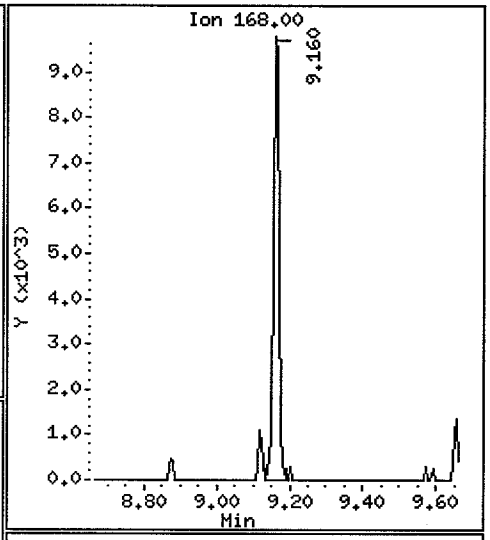
Column phase: ZB-5

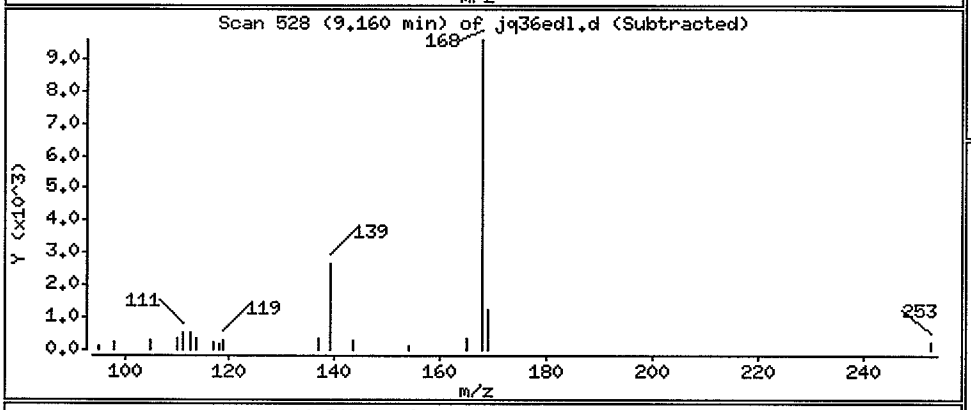
Column diameter: 0.25

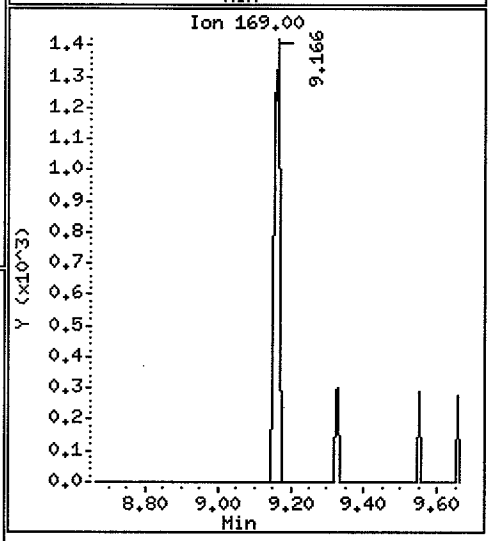
10 Dibenzofuran

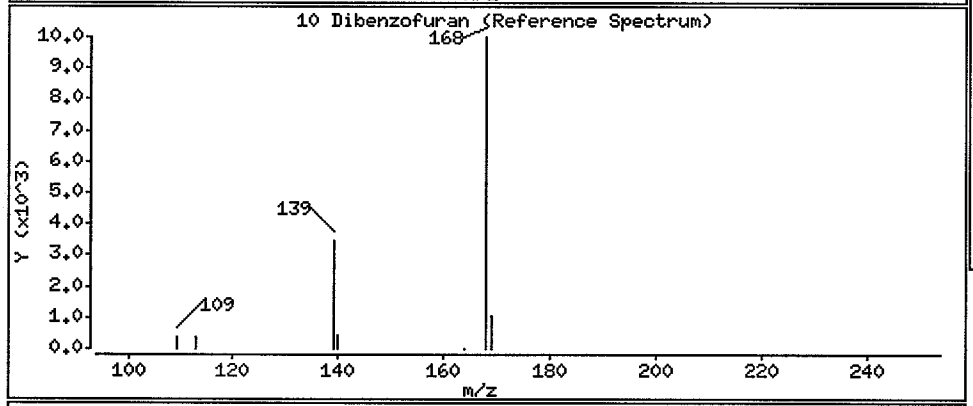
Concentration: 919.2 ug/kg

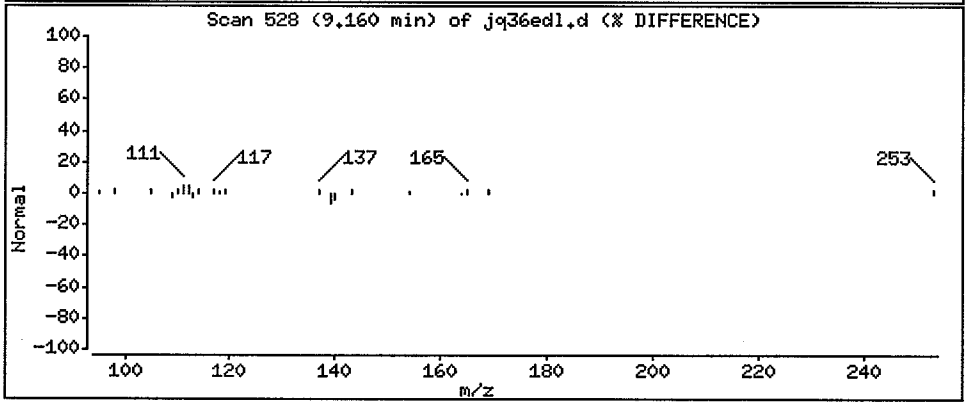












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

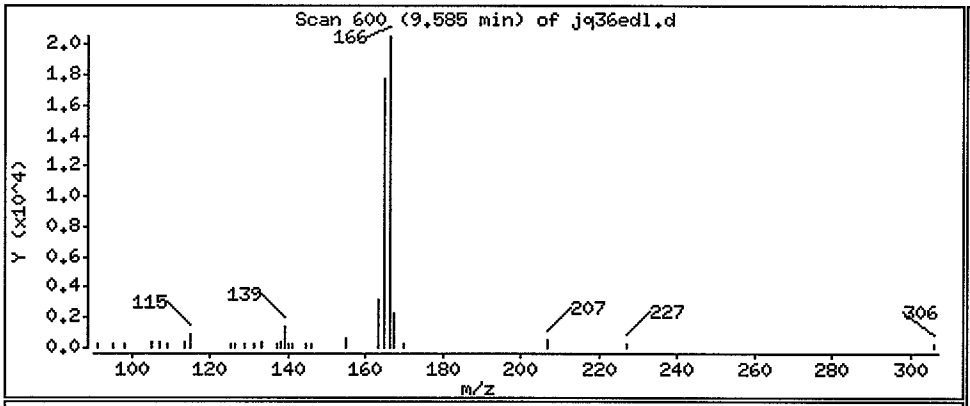
Operator: VTS

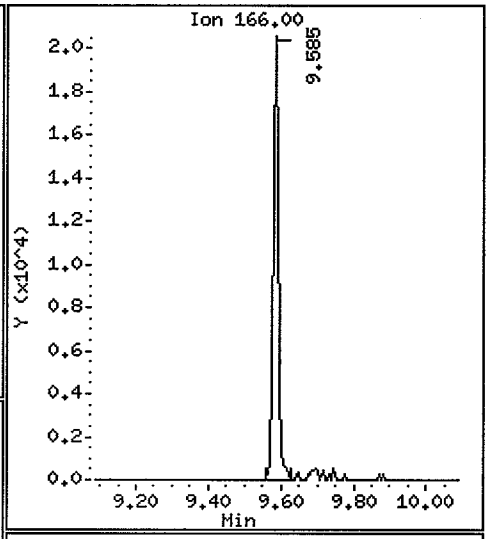
Column phase: ZB-5

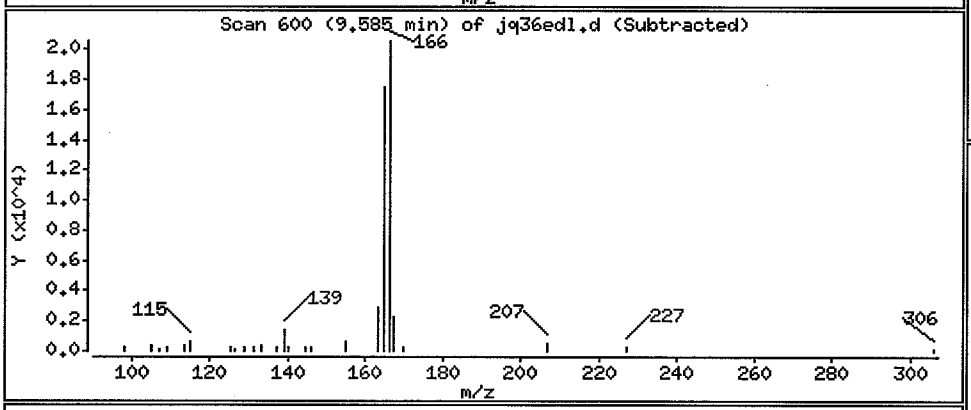
Column diameter: 0.25

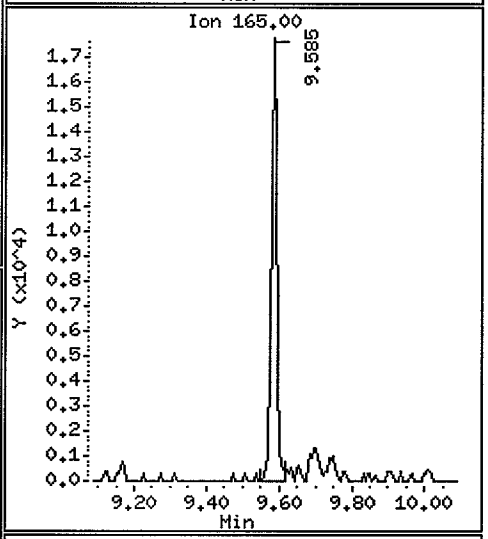
11 Fluorene

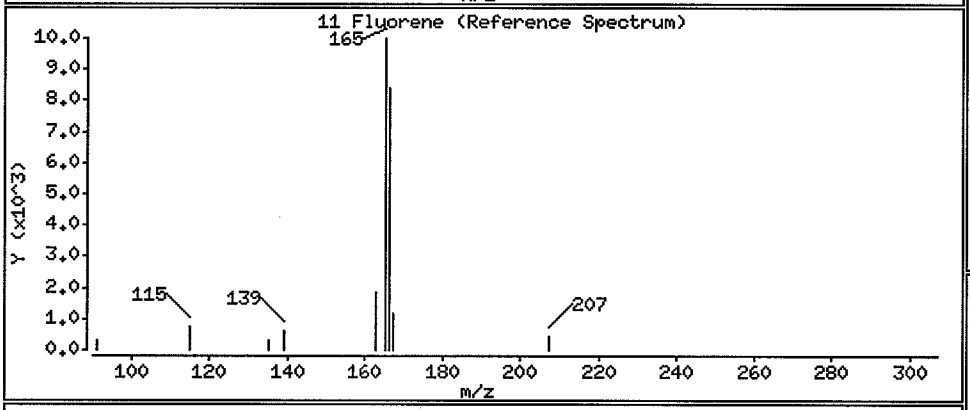
Concentration: 2287 ug/kg

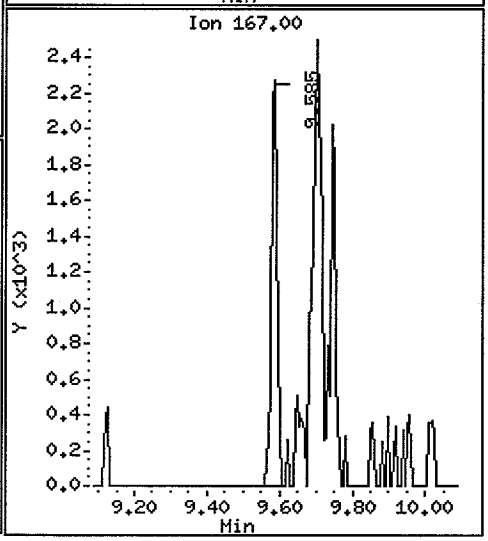


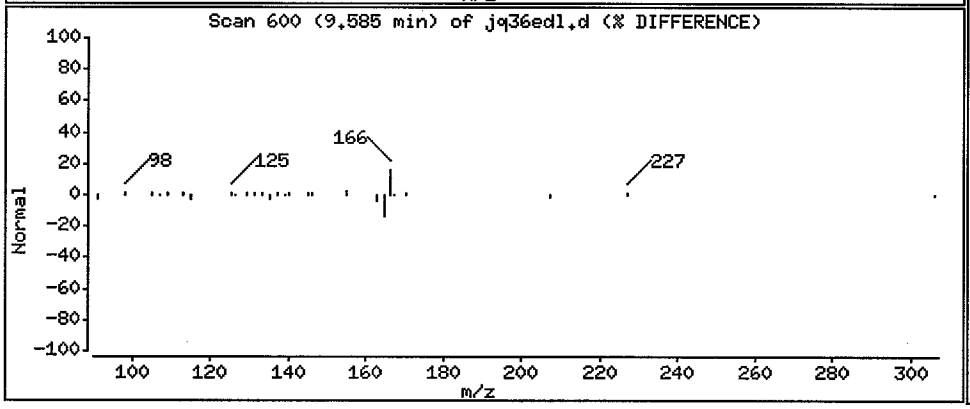












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

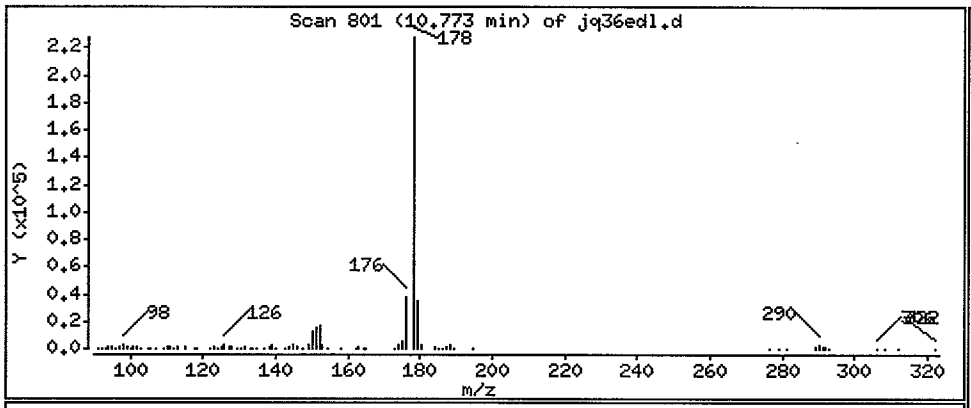
Operator: VTS

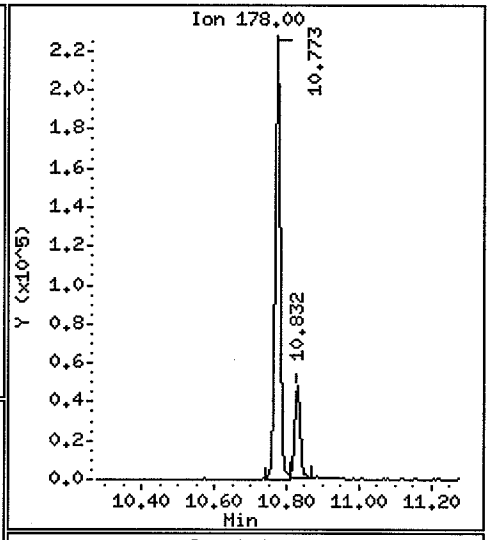
Column phase: ZB-5

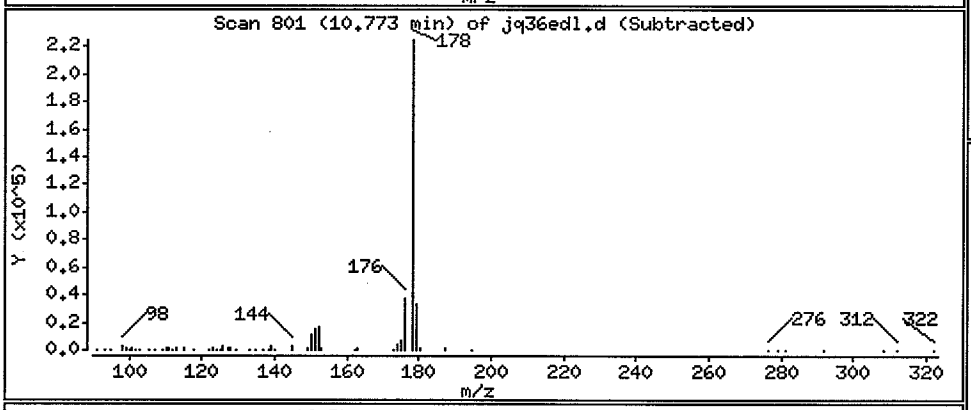
Column diameter: 0.25

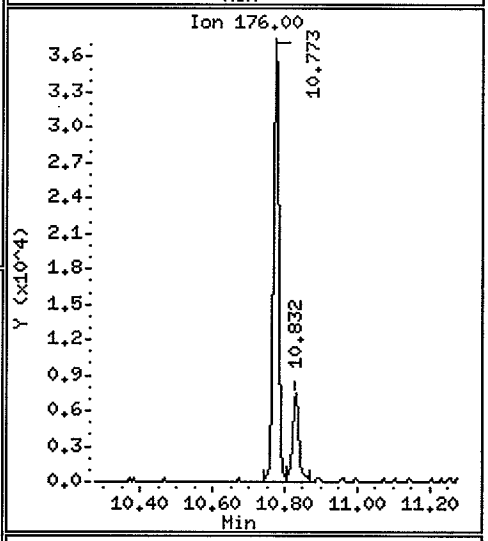
16 Phenanthrene

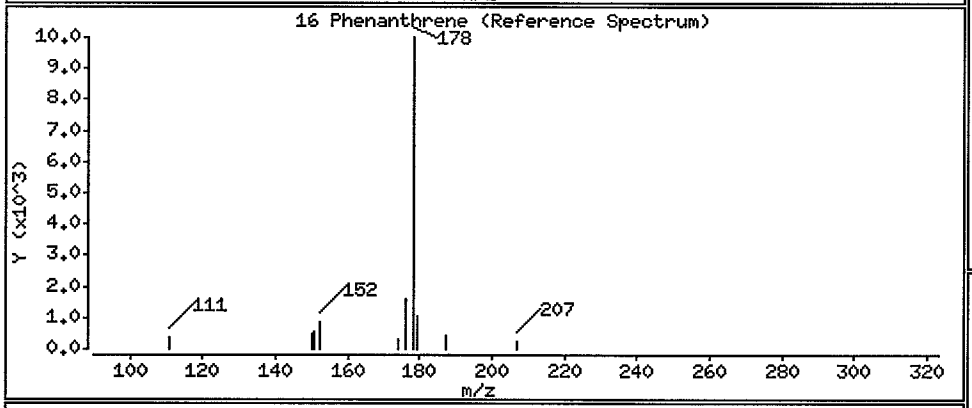
Concentration: 18640 ug/kg

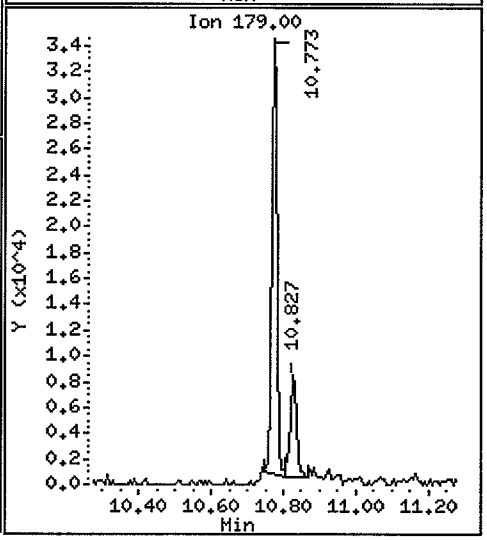


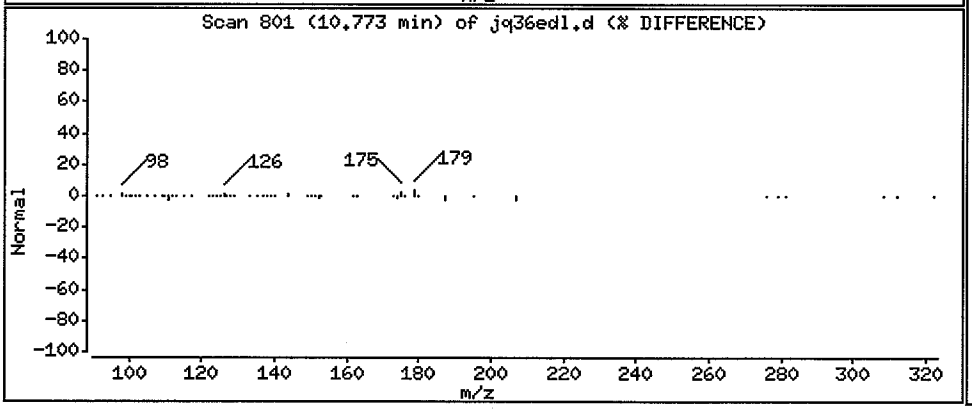












Data File: /chem3/nt1.i/20060810.b/jq36edl.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

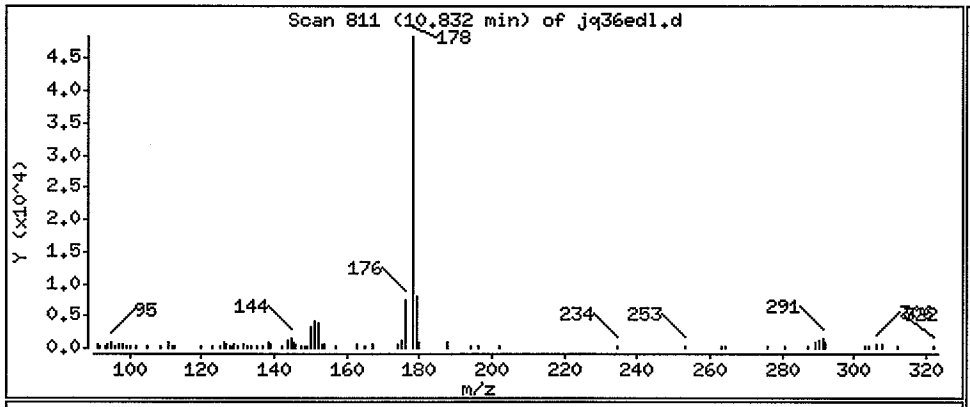
Operator: VTS

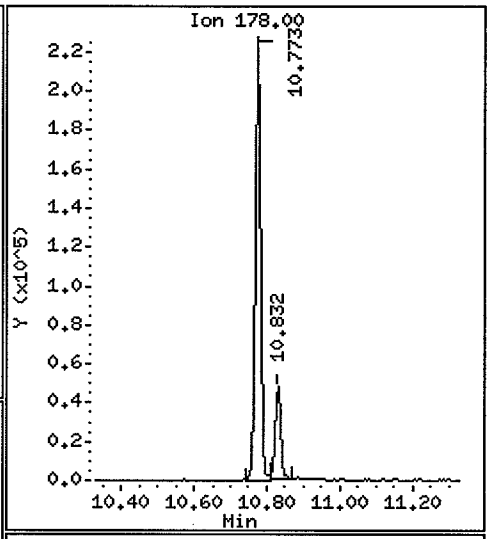
Column phase: ZB-5

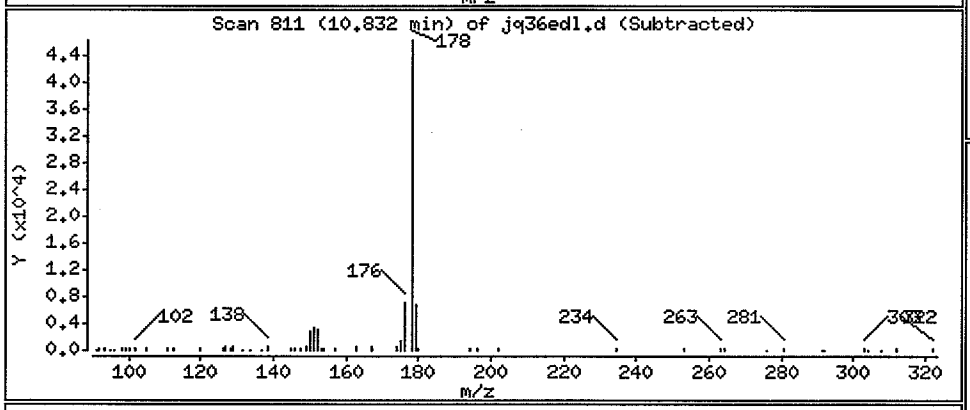
Column diameter: 0.25

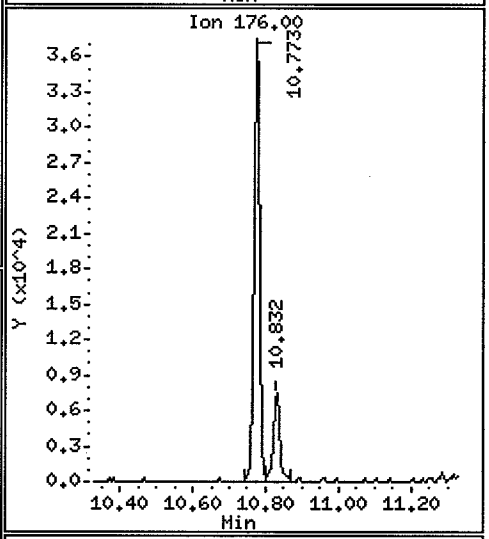
17 Anthracene

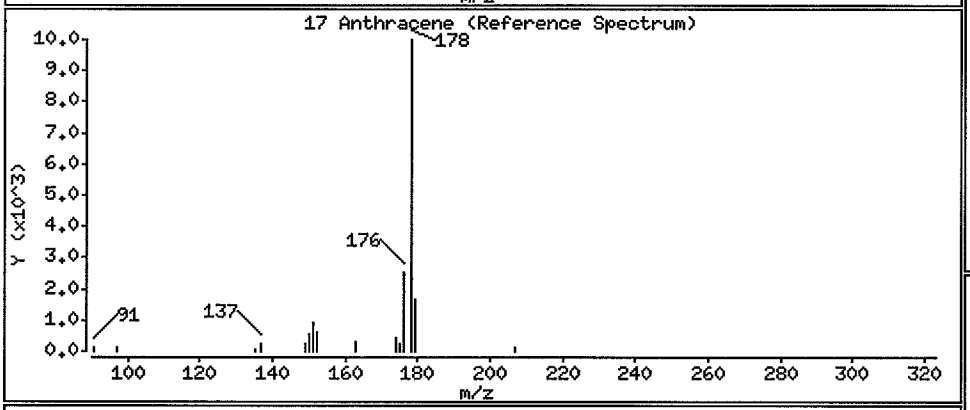
Concentration: 4219 ug/kg

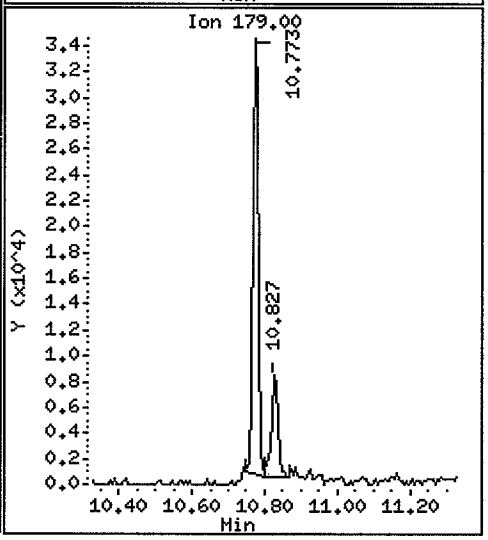


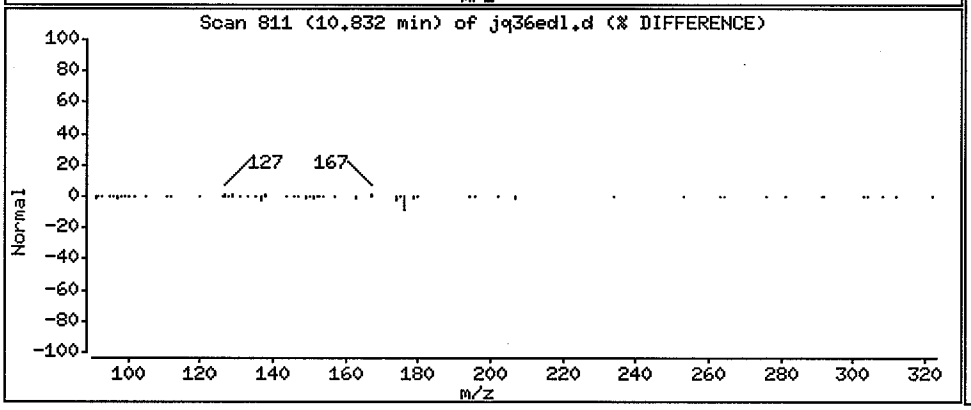












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

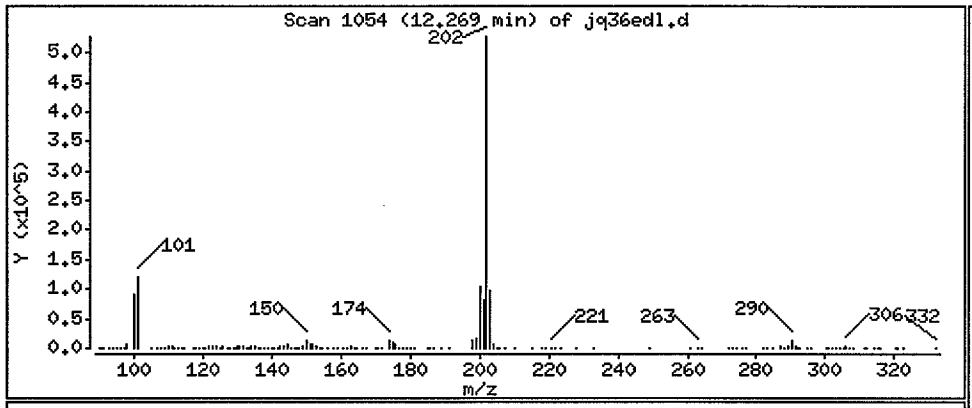
Operator: VTS

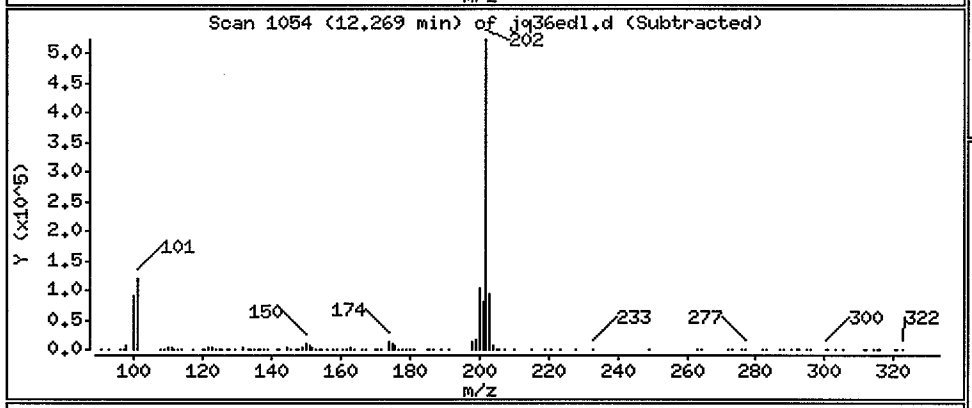
Column phase: ZB-5

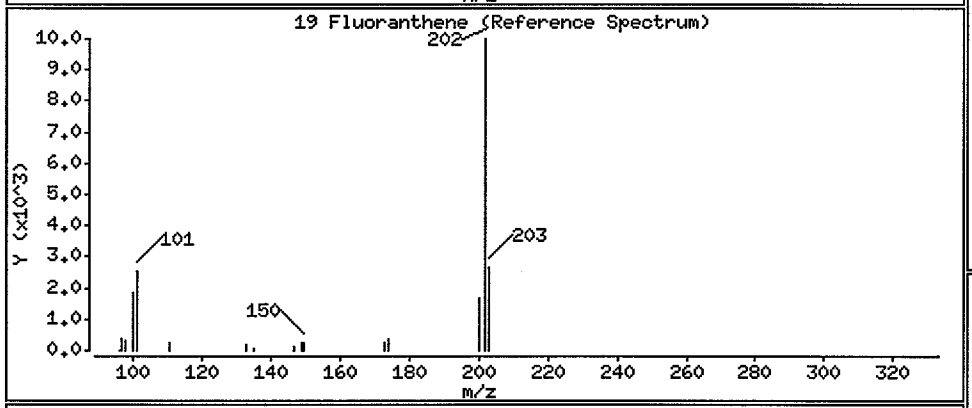
Column diameter: 0.25

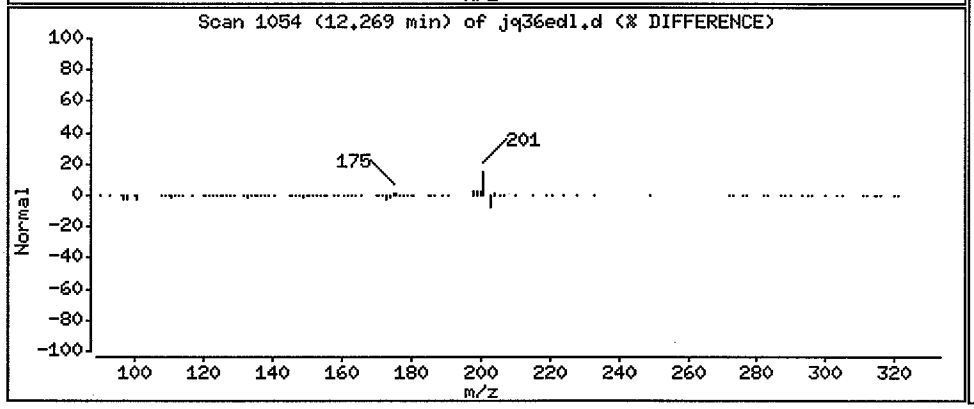
19 Fluoranthene

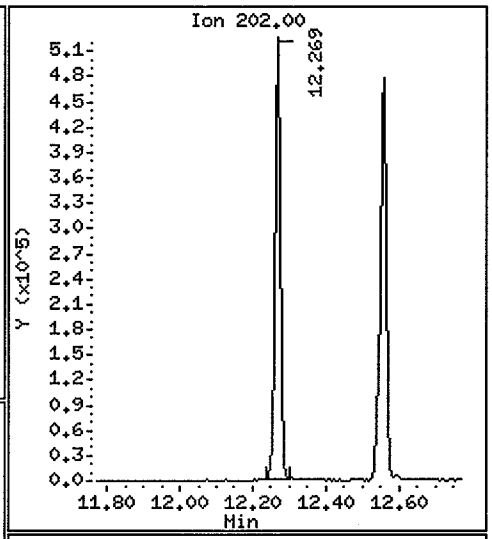
Concentration: 42290 ug/kg

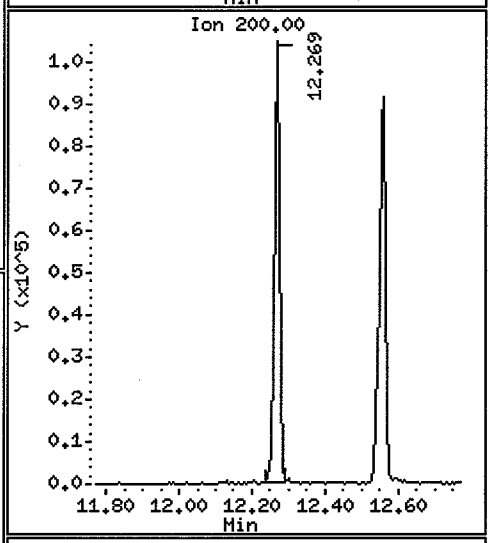


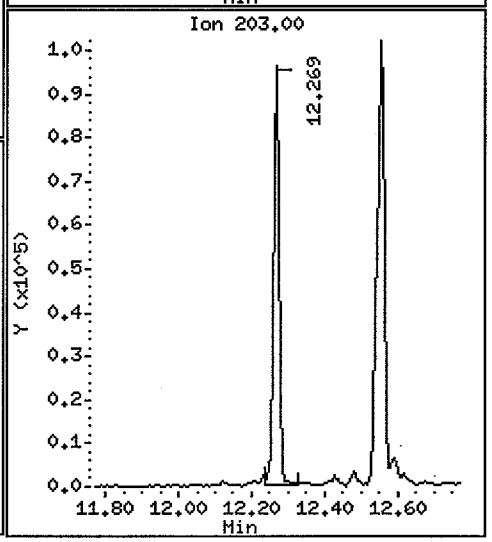












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

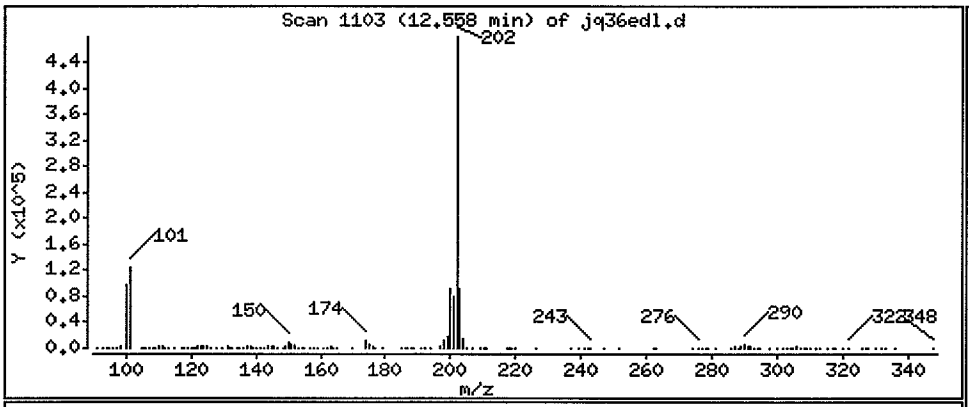
Operator: VTS

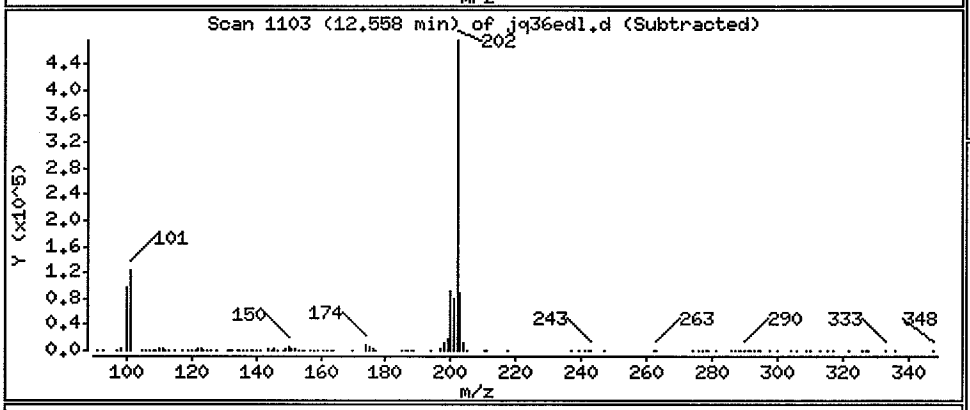
Column phase: ZB-5

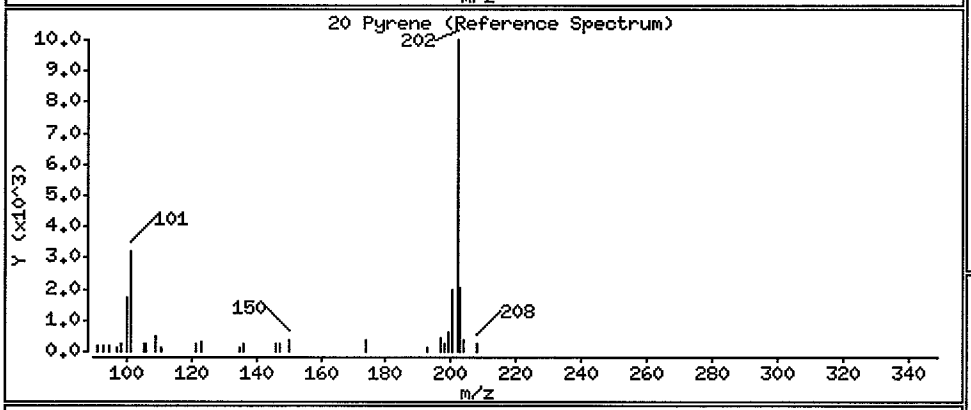
Column diameter: 0.25

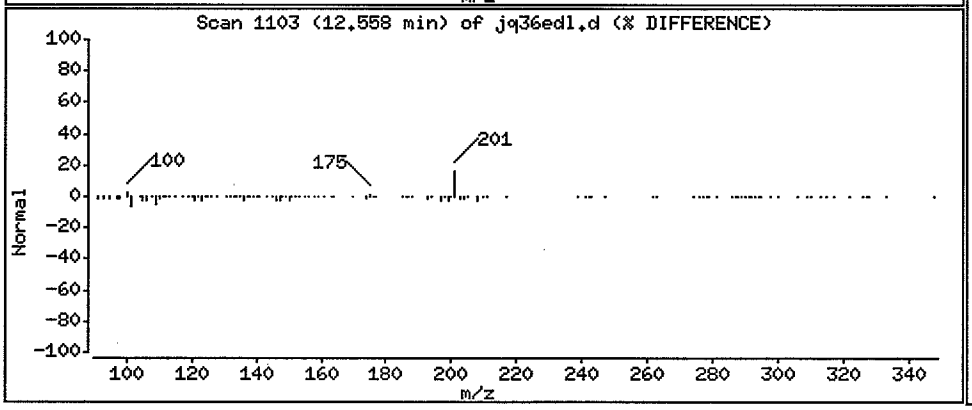
20 Pyrene

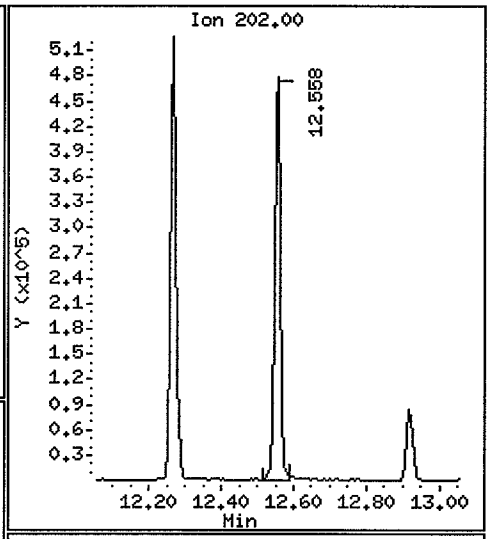
Concentration: 35630 ug/kg

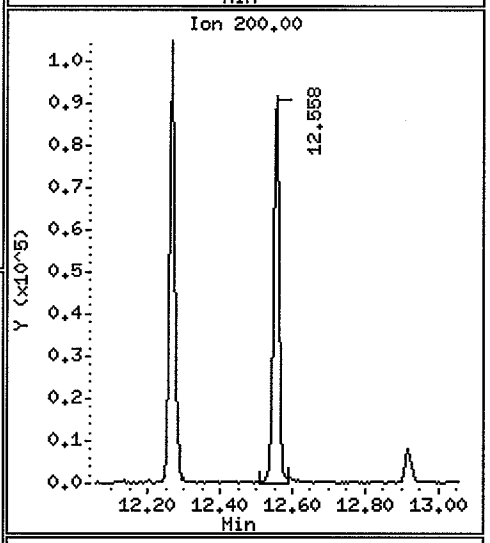


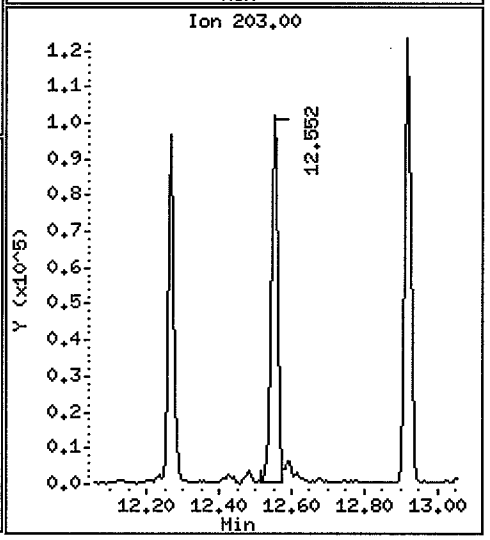












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

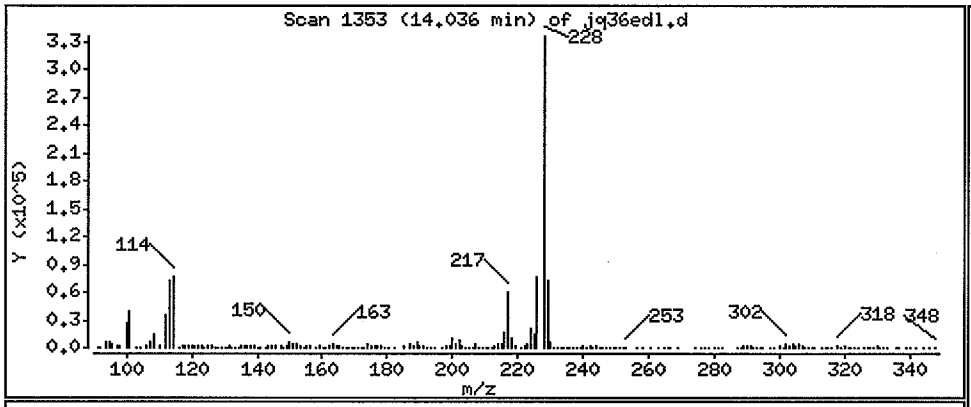
Operator: VTS

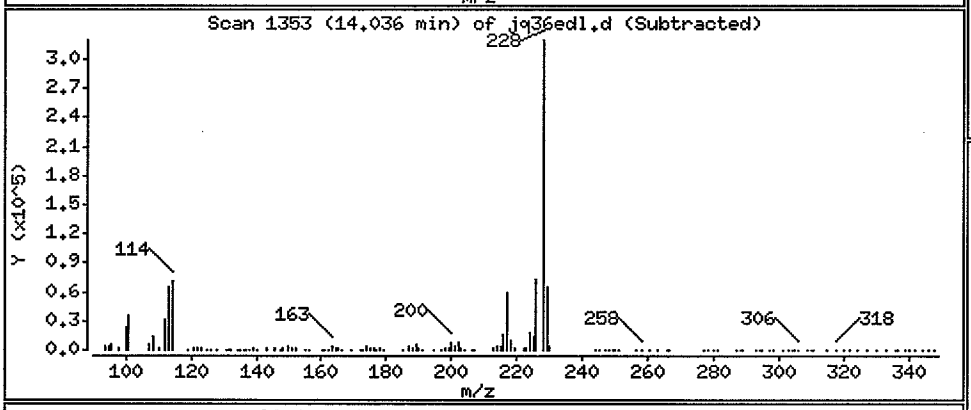
Column phase: ZB-5

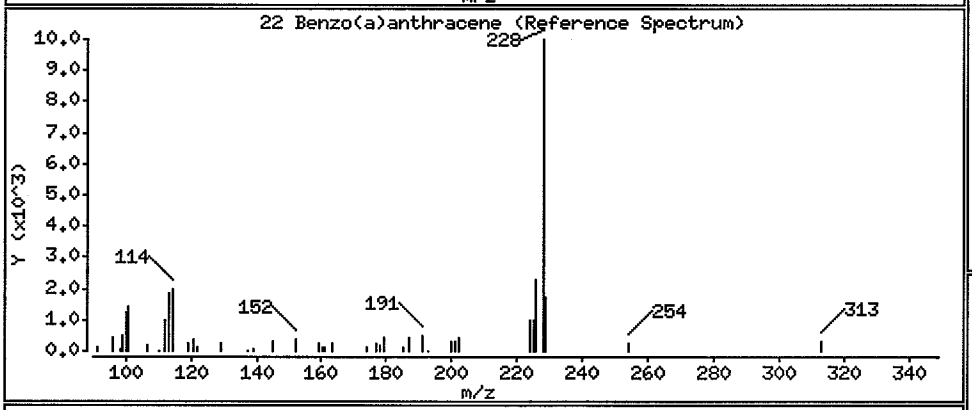
Column diameter: 0.25

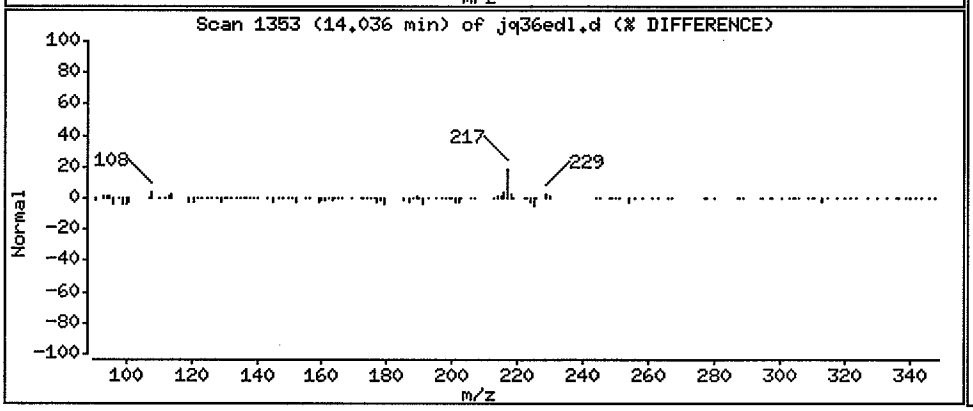
22 Benzo(a)anthracene

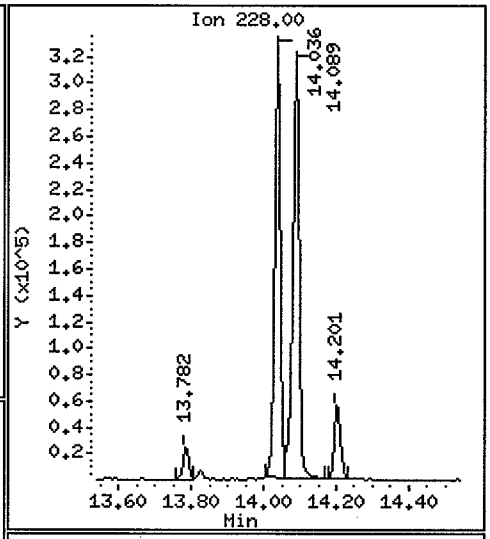
Concentration: 25940 ug/kg

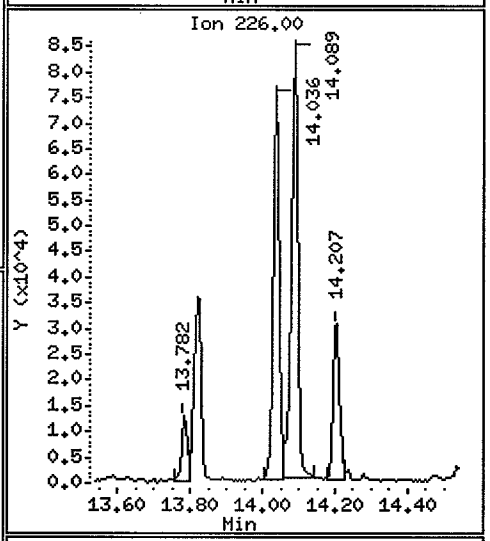


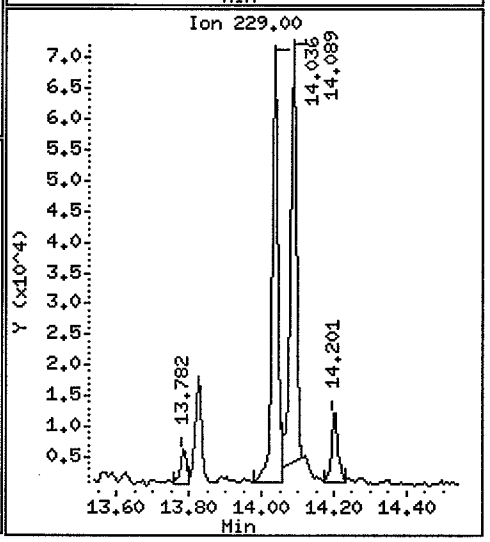












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

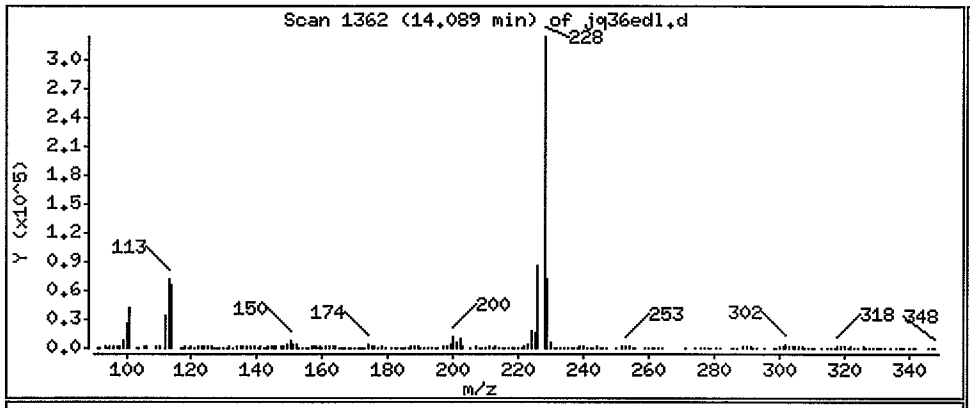
Operator: VTS

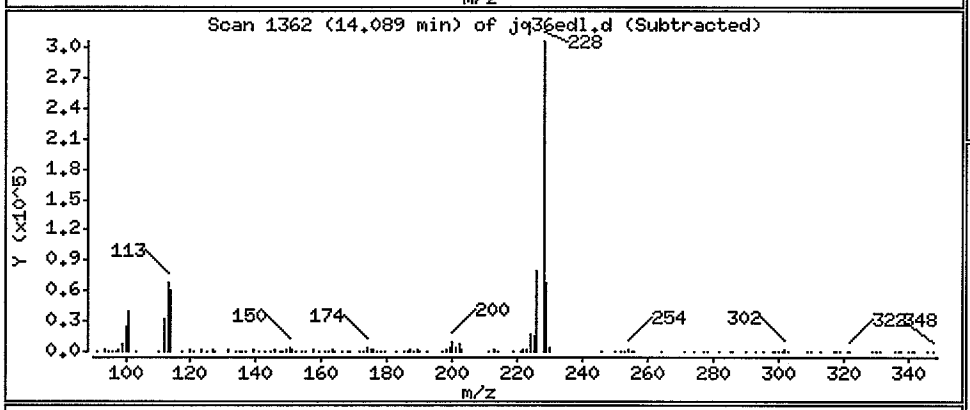
Column phase: ZB-5

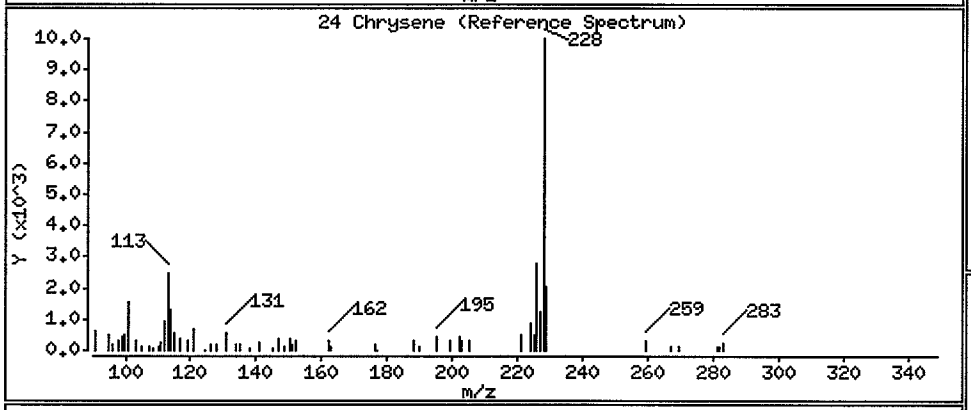
Column diameter: 0.25

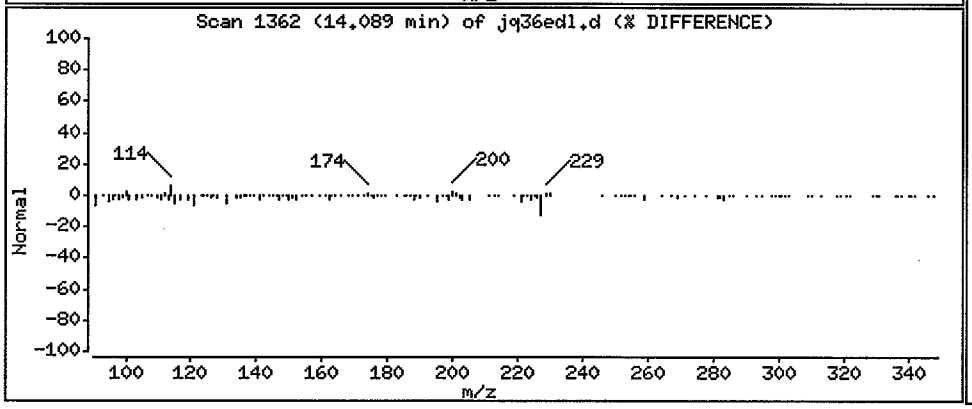
24 Chrysene

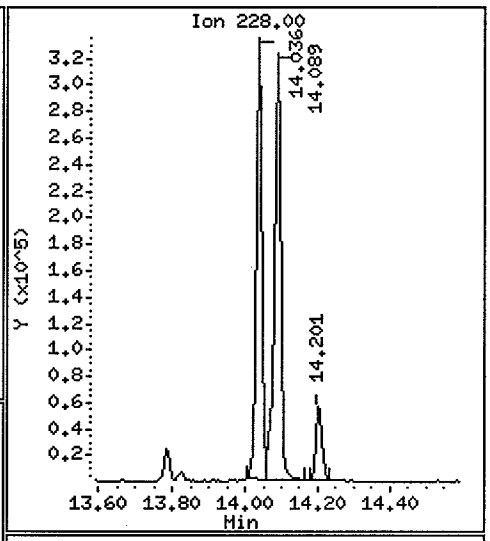
Concentration: 31770 ug/kg

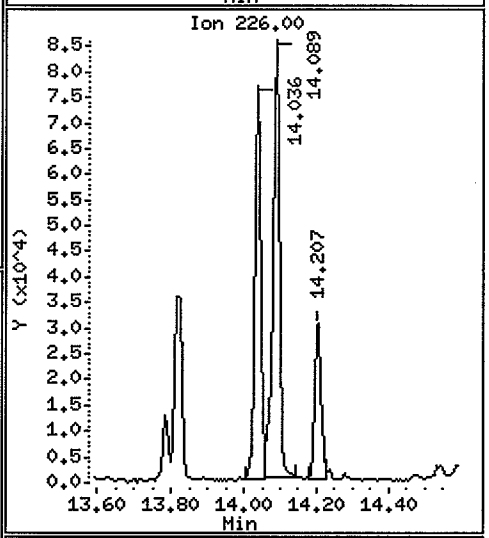


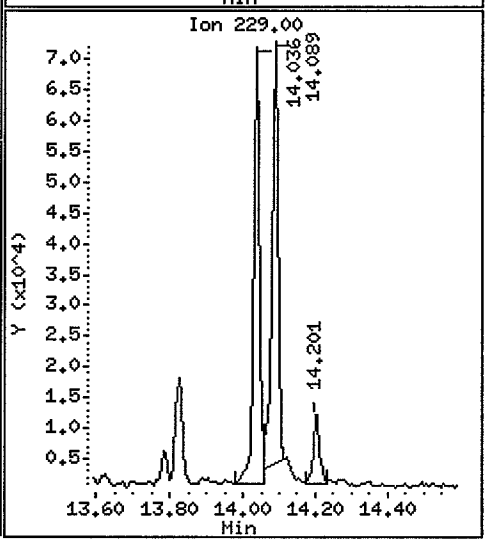












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

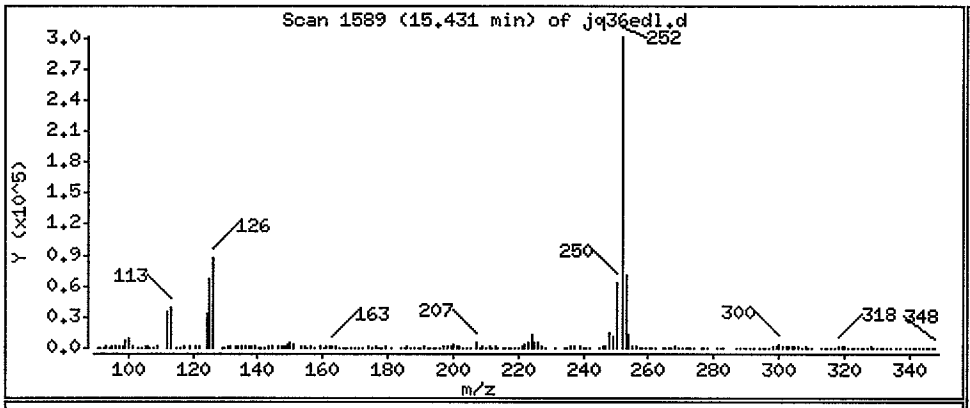
Operator: VTS

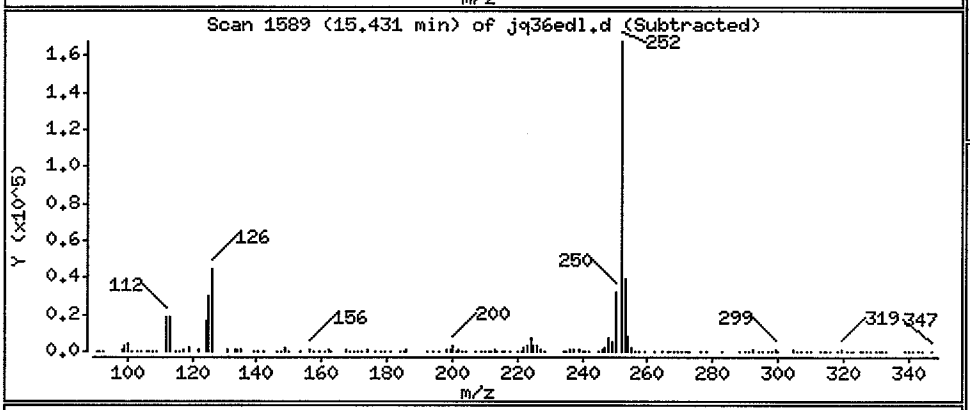
Column phase: ZB-5

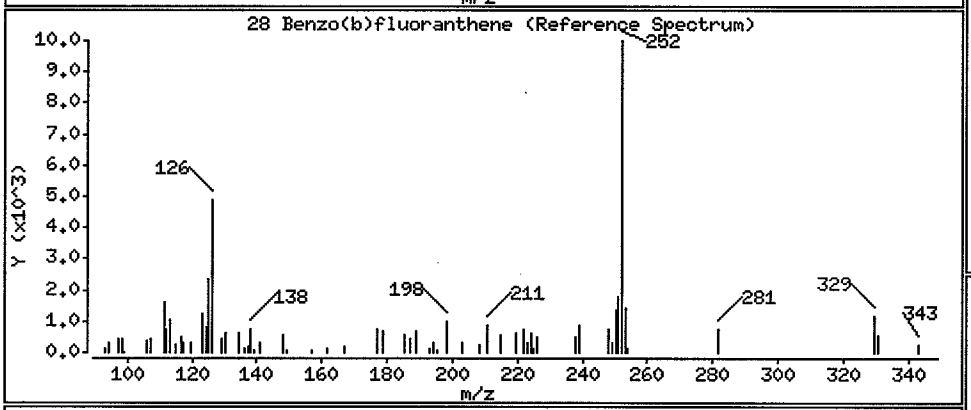
Column diameter: 0.25

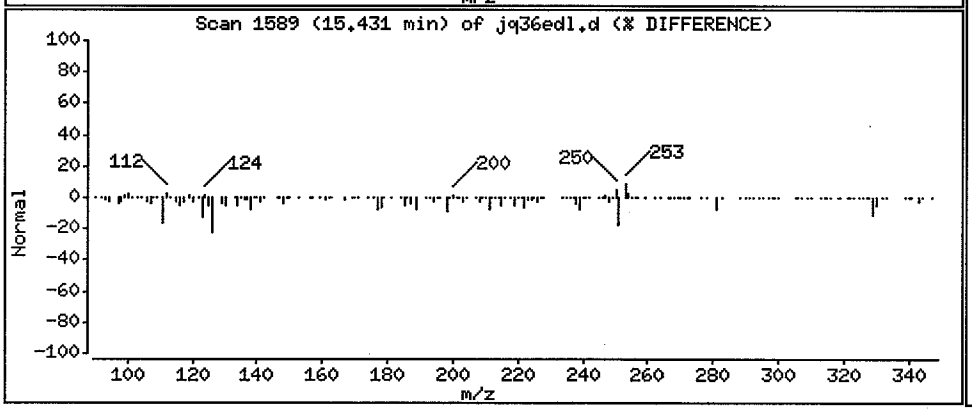
28 Benzo(b)fluoranthene

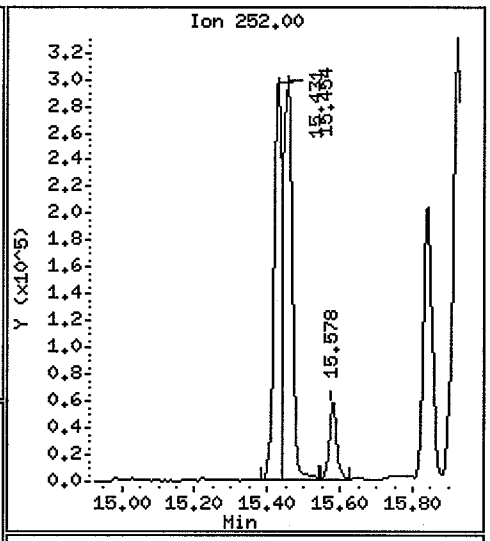
Concentration: 29920 ug/kg

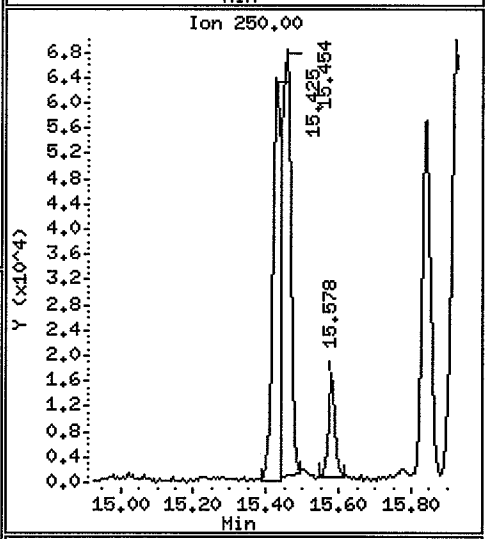


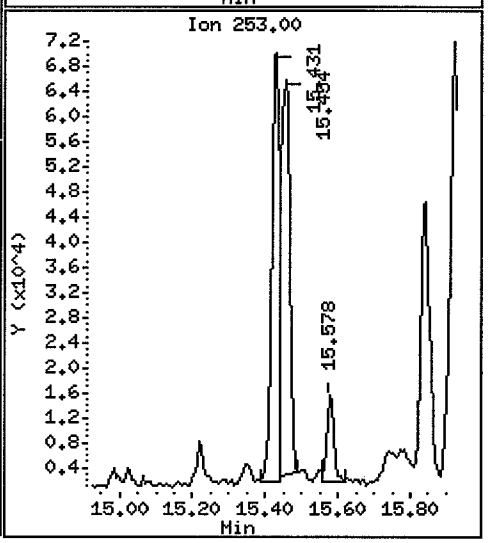












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

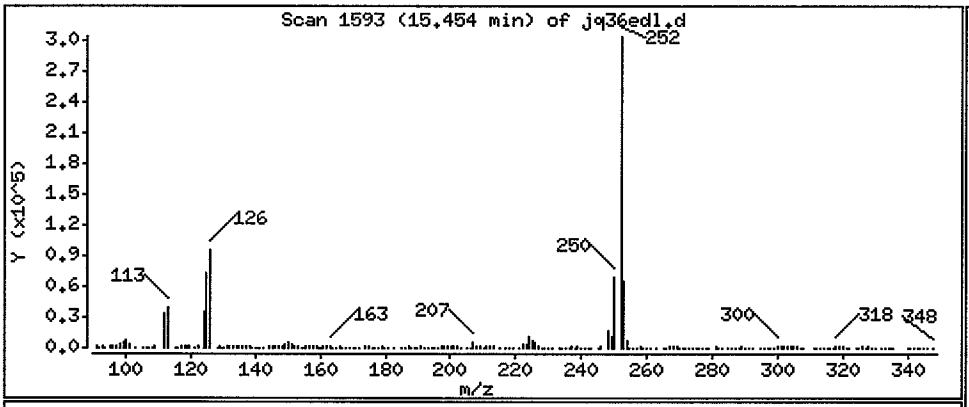
Operator: VTS

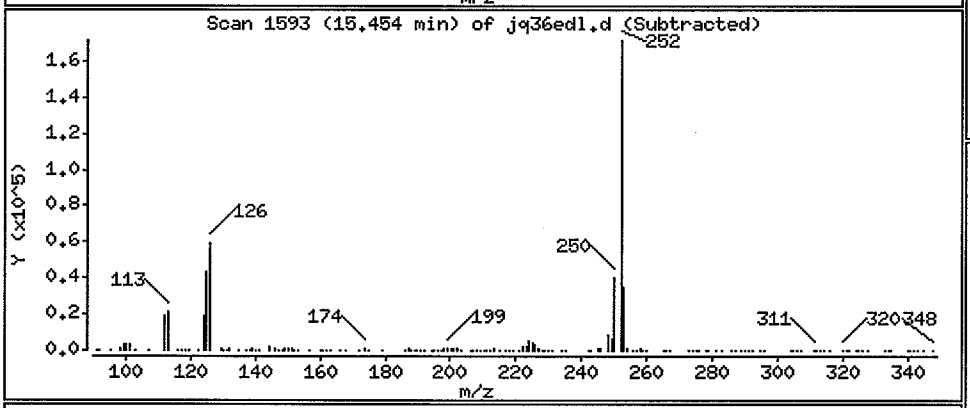
Column phase: ZB-5

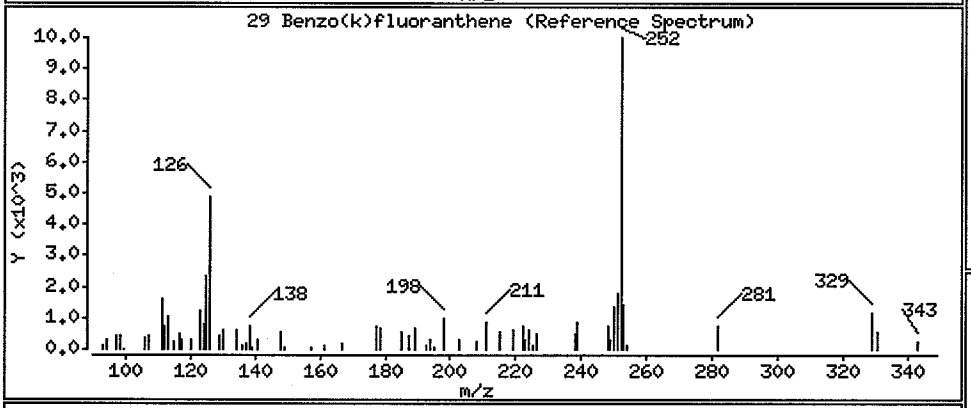
Column diameter: 0.25

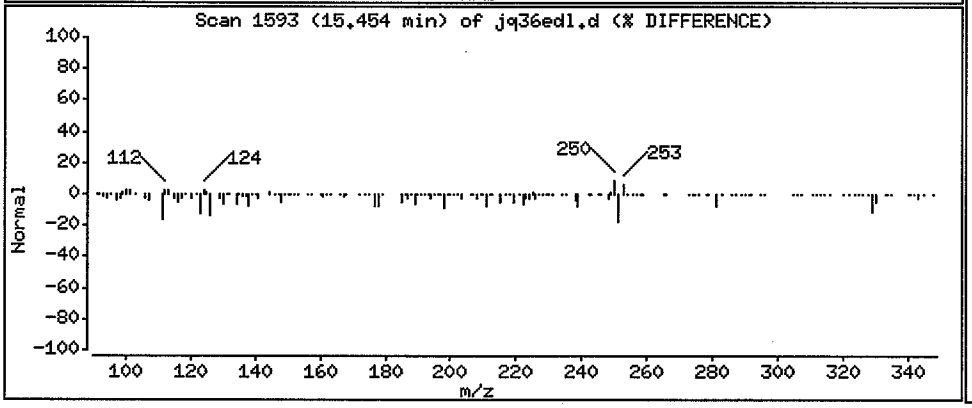
29 Benzo(k)fluoranthene

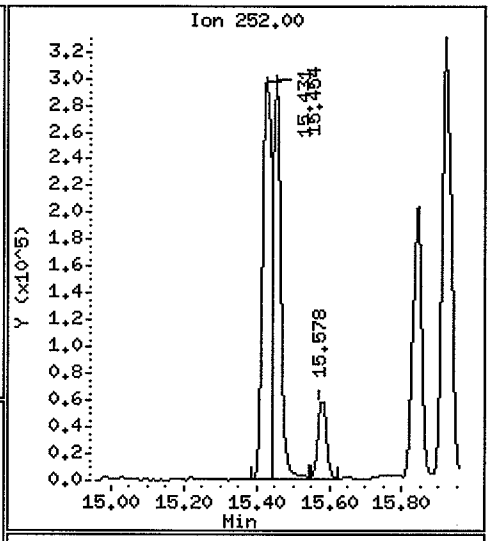
Concentration: 27660 ug/kg

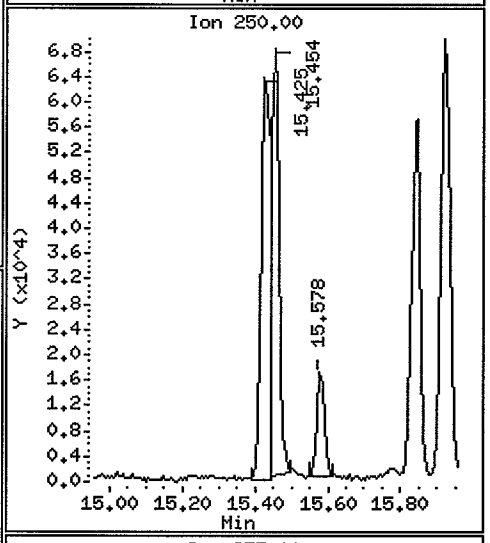


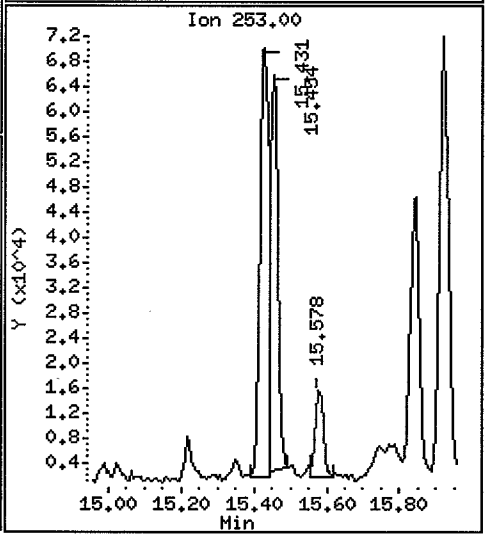












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

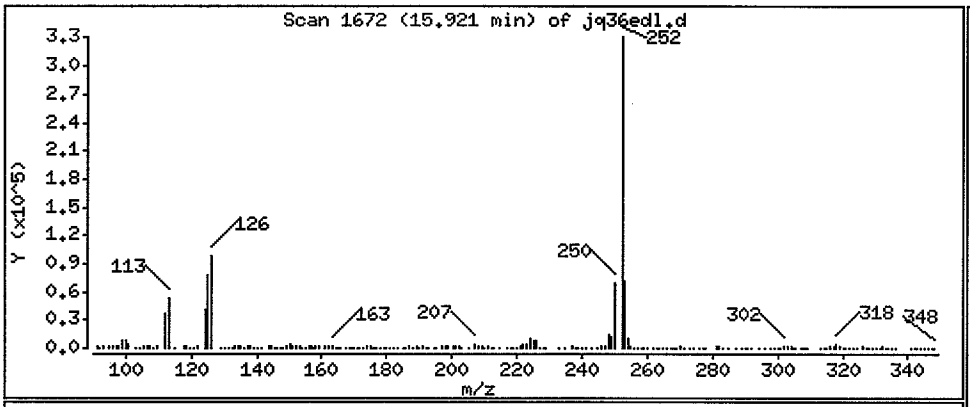
Operator: VTS

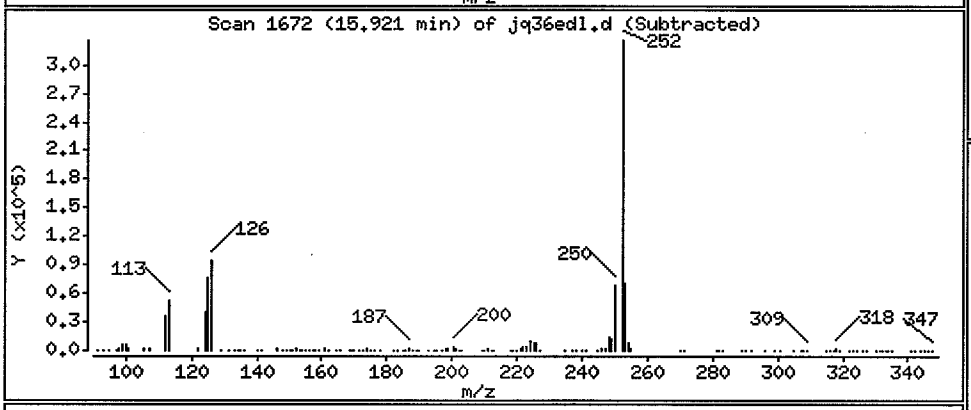
Column phase: ZB-5

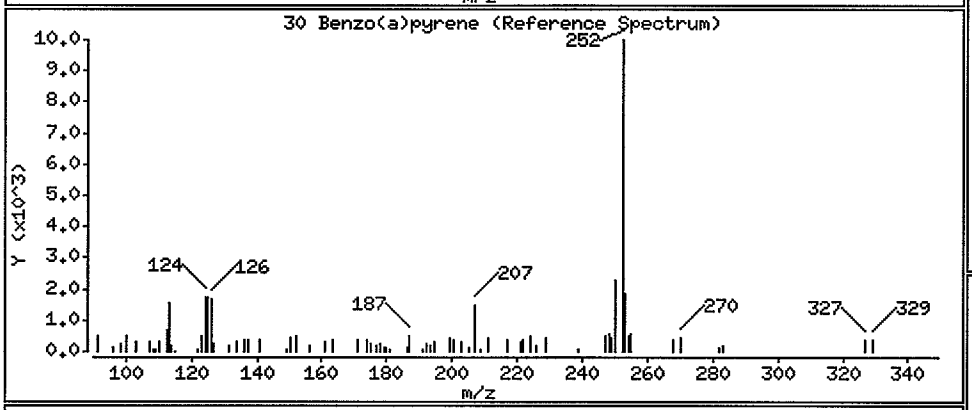
Column diameter: 0.25

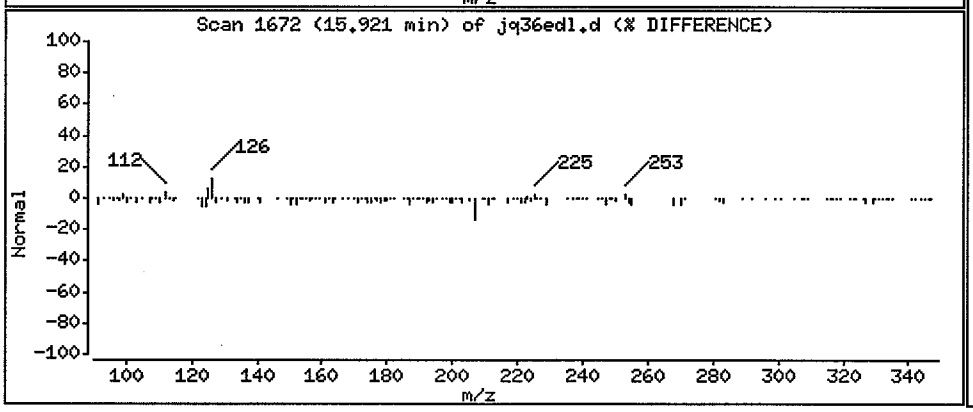
30 Benzo(a)pyrene

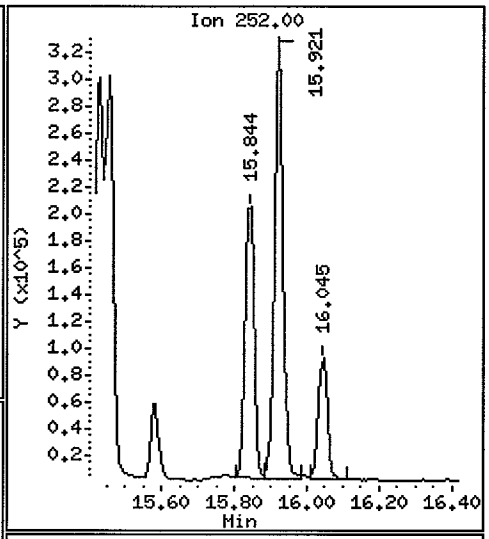
Concentration: 33150 ug/kg

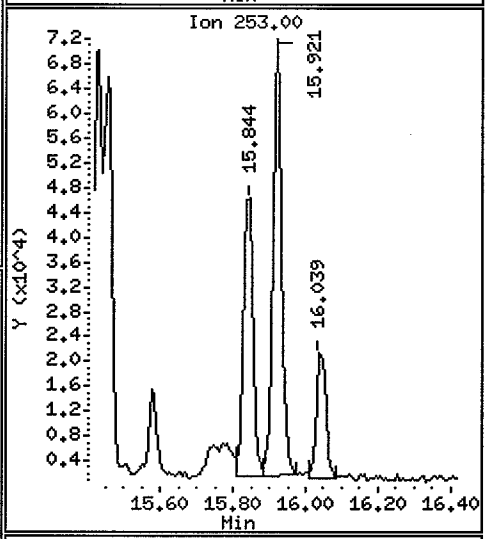


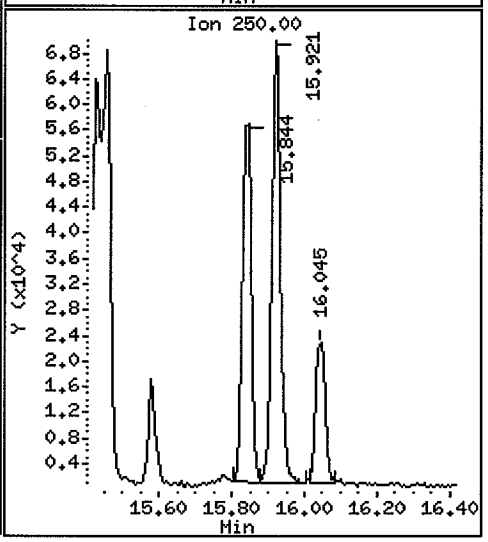












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

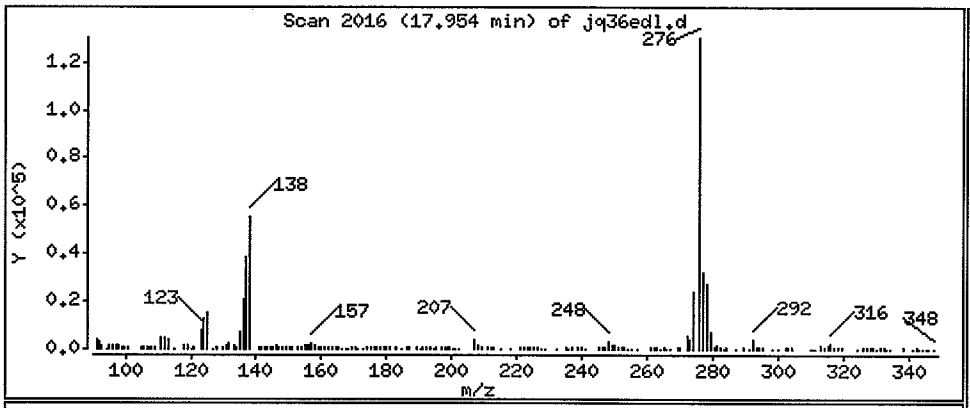
Operator: VTS

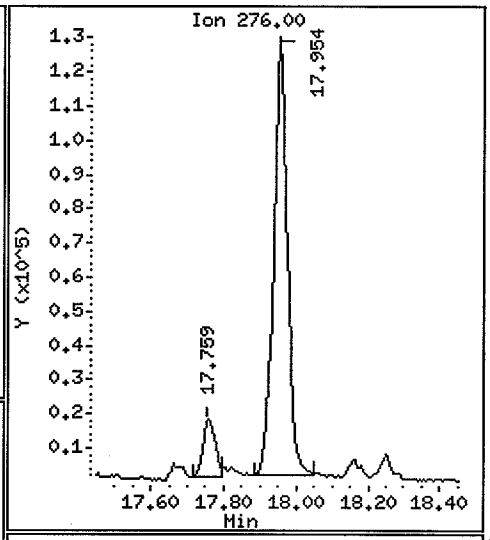
Column phase: ZB-5

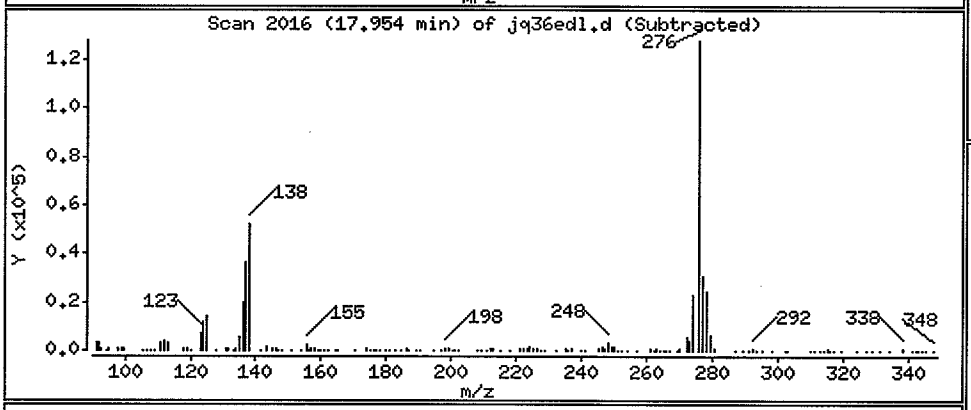
Column diameter: 0.25

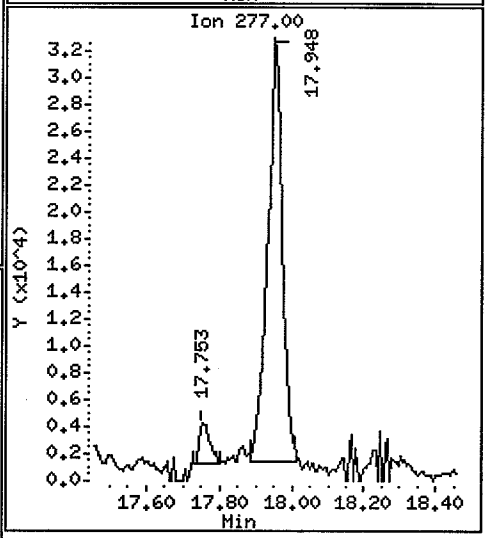
33 Indeno(1,2,3-cd)pyrene

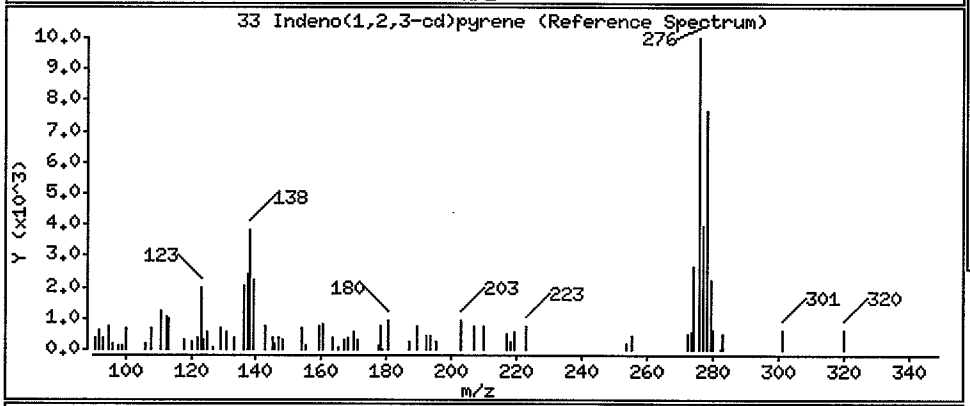
Concentration: 17710 ug/kg

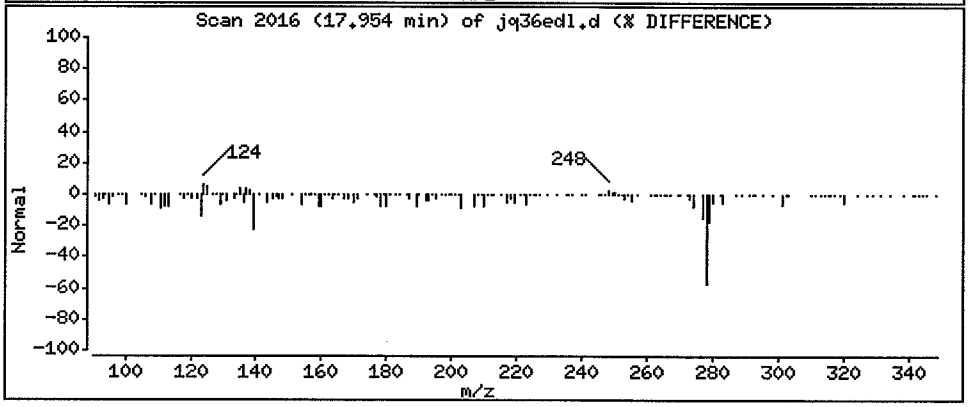












Data File: /chem3/nt1.i/20060810.b/jq36edl.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

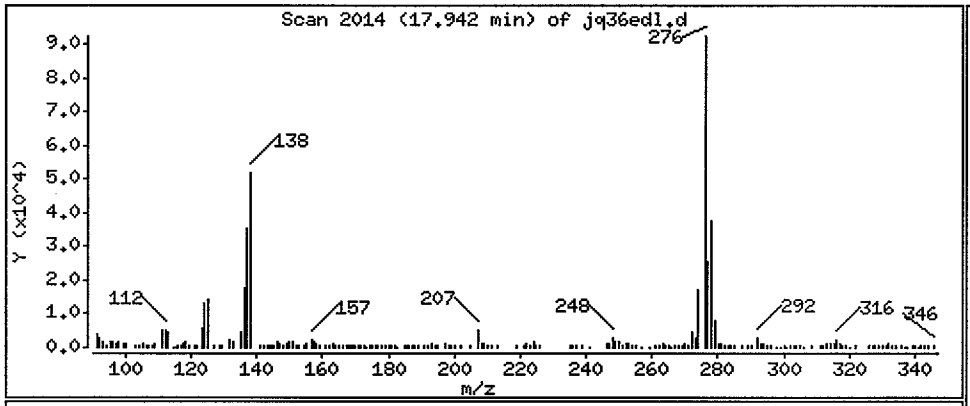
Operator: VTS

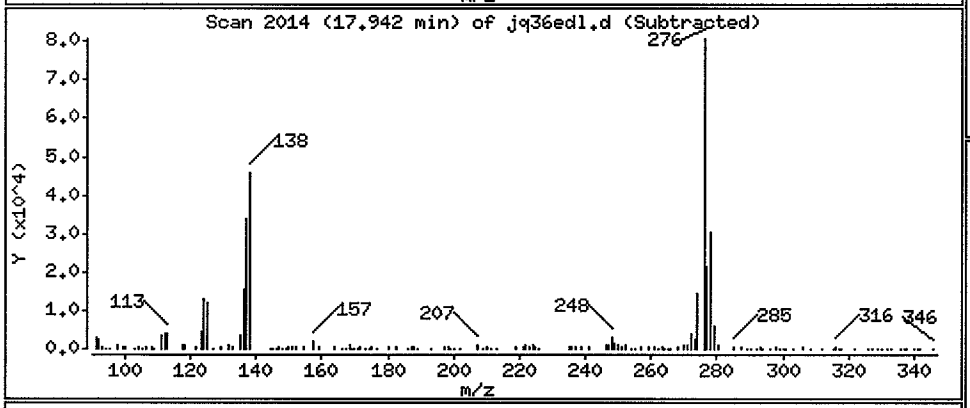
Column phase: ZB-5

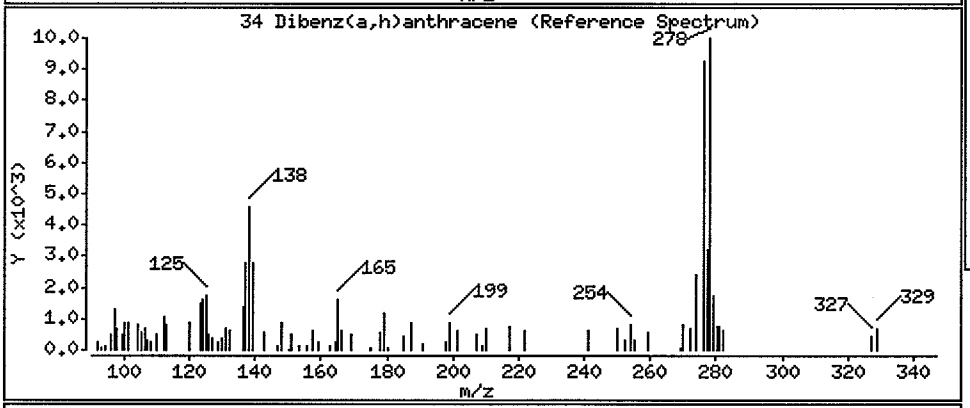
Column diameter: 0.25

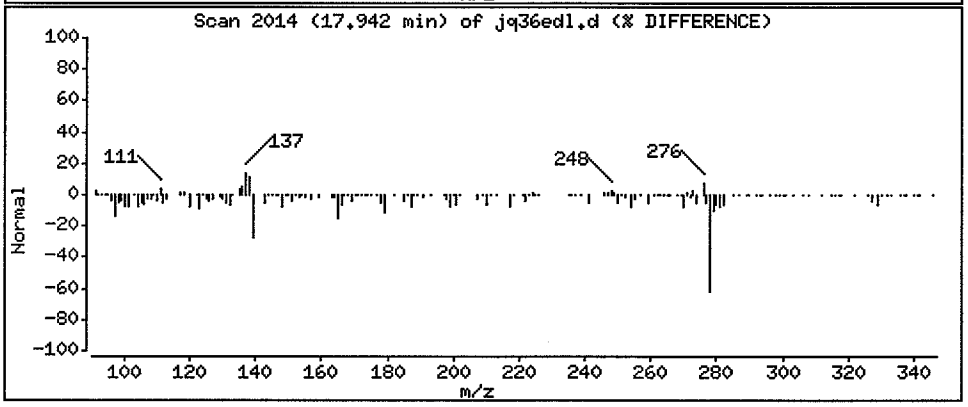
34 Dibenz(a,h)anthracene

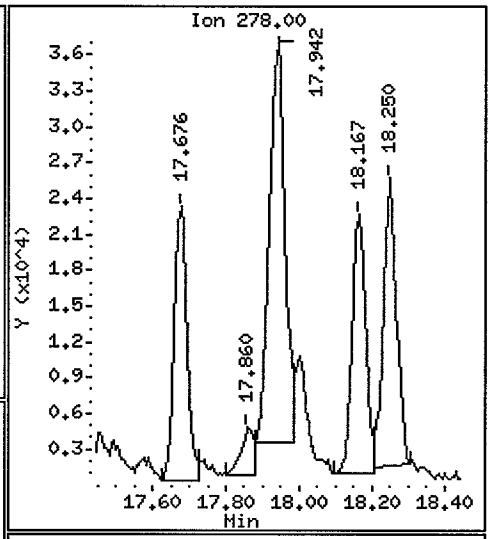
Concentration: 6444 ug/kg

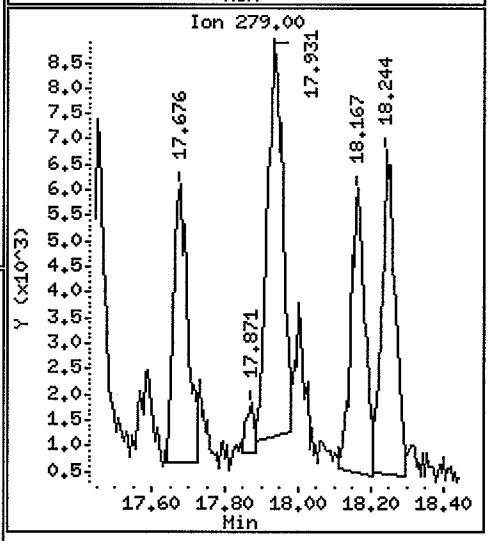












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

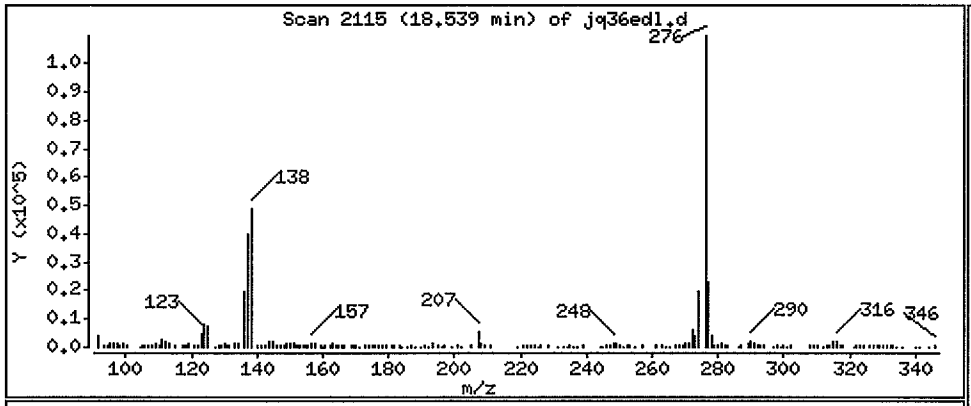
Operator: VTS

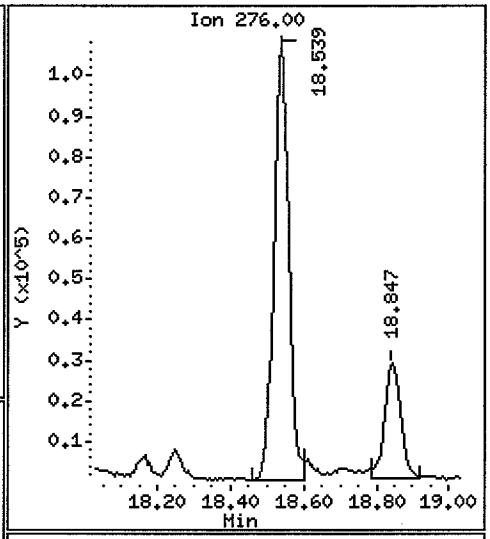
Column phase: ZB-5

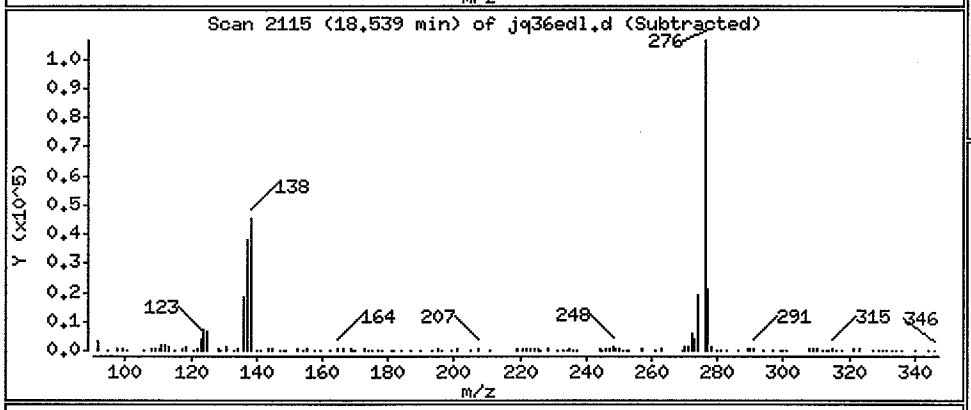
Column diameter: 0.25

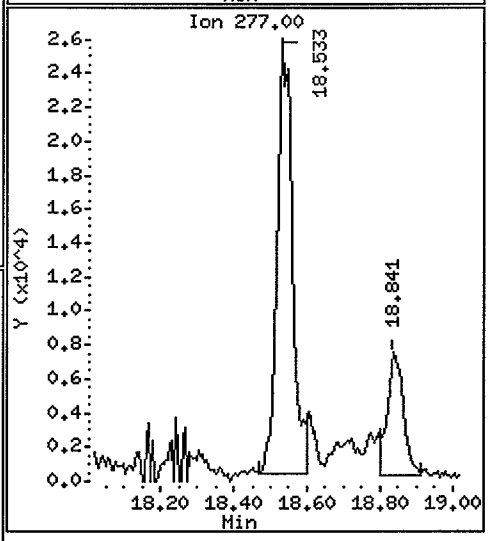
35 Benzo(g,h,i)perylene

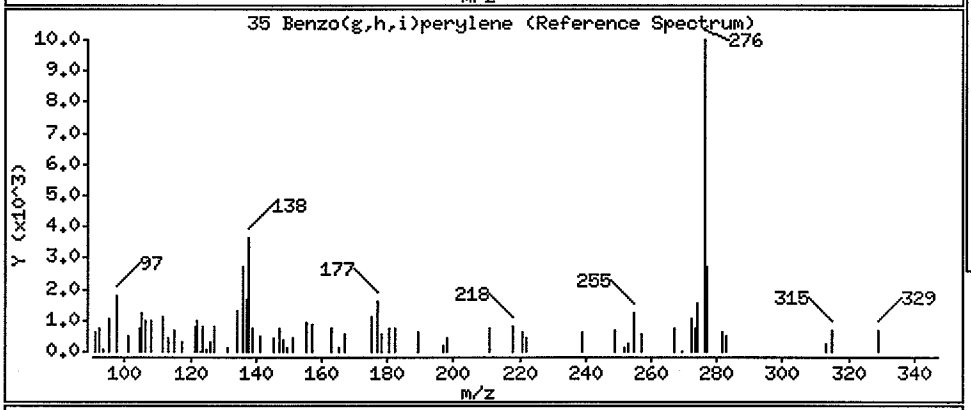
Concentration: 19040 ug/kg

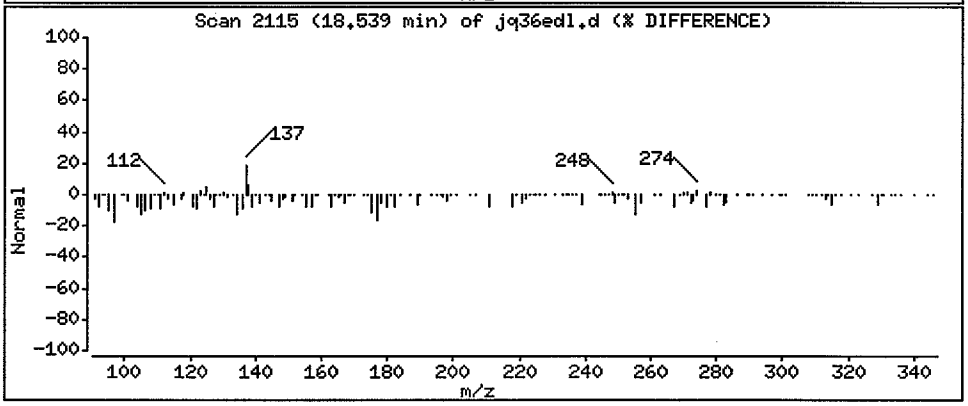












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

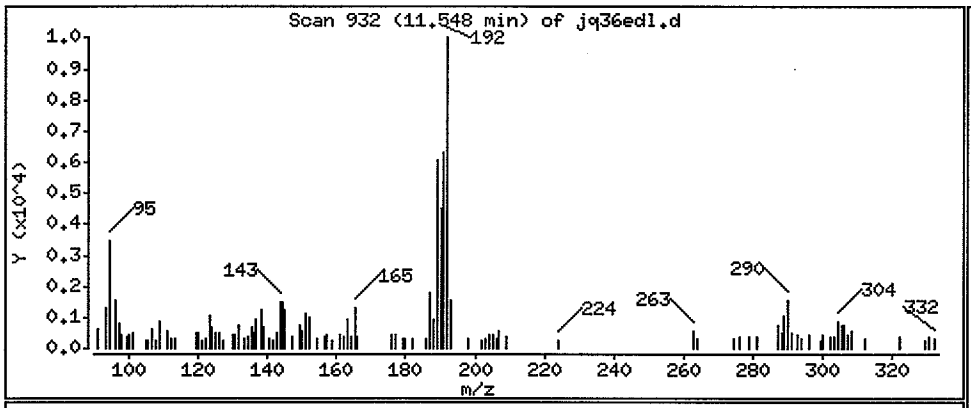
Operator: VTS

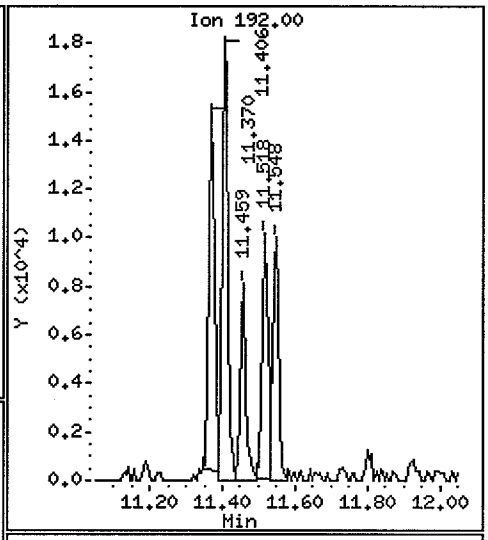
Column phase: ZB-5

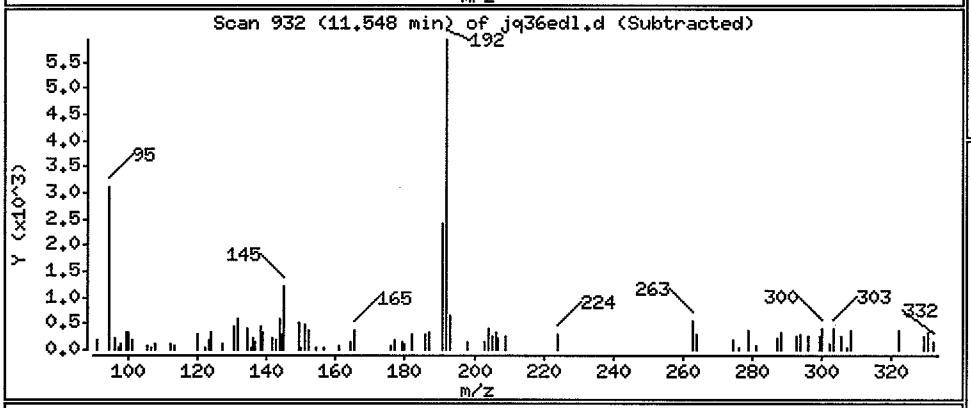
Column diameter: 0.25

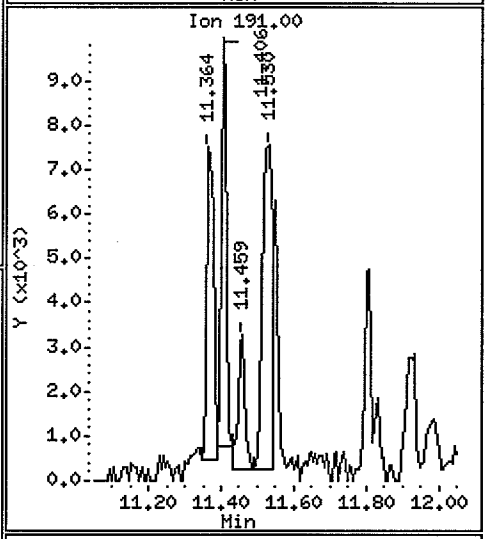
51 1-Methylphenanthrene

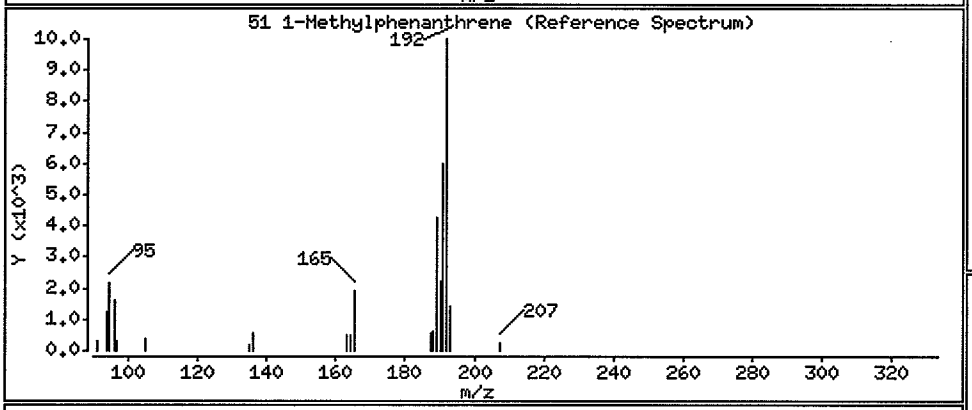
Concentration: 1330 ug/kg

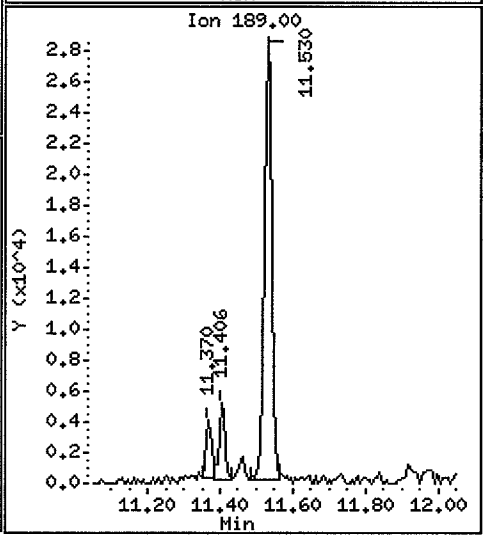


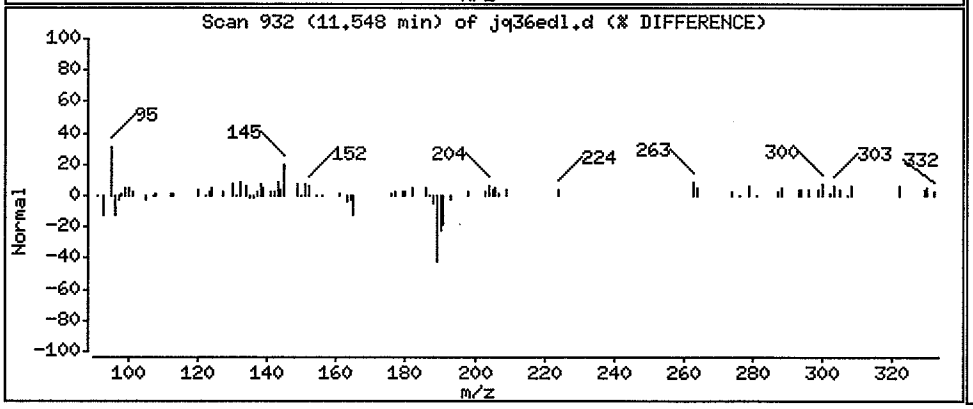












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

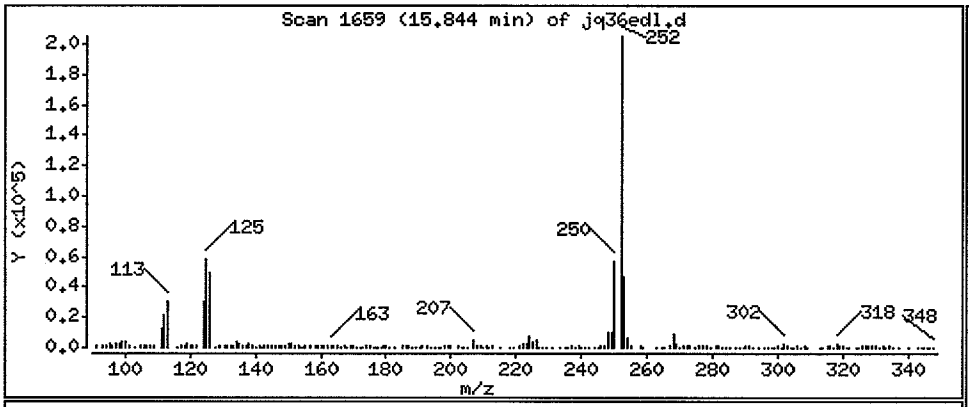
Operator: VTS

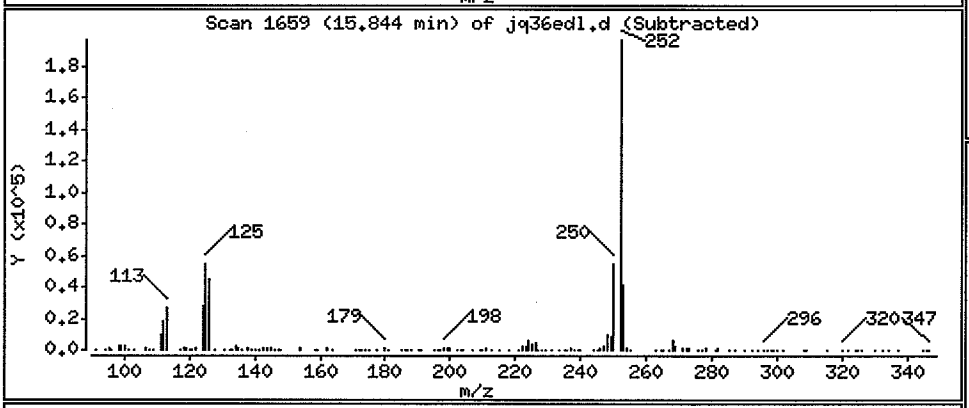
Column phase: ZB-5

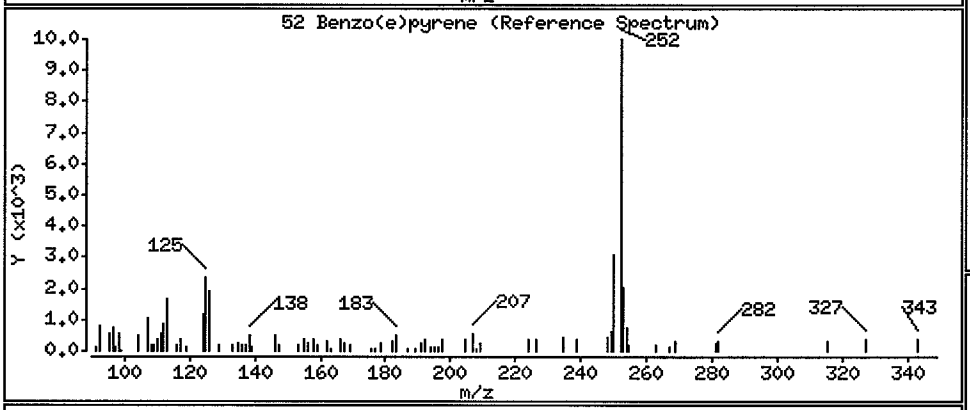
Column diameter: 0.25

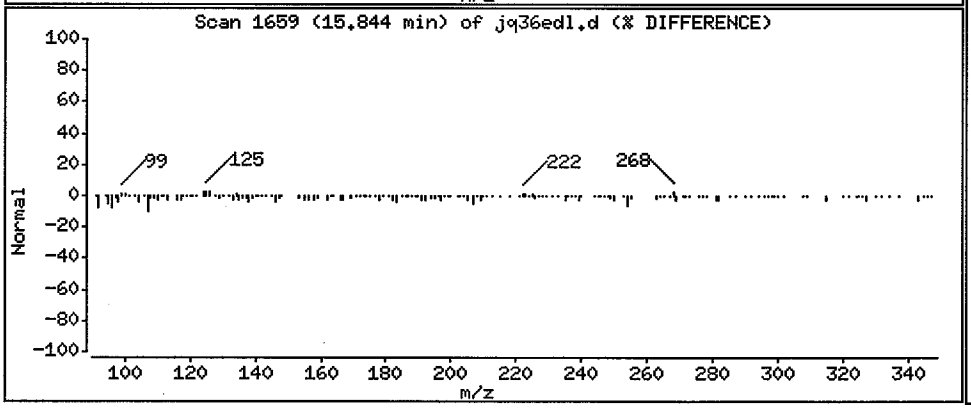
52 Benzo(e)pyrene

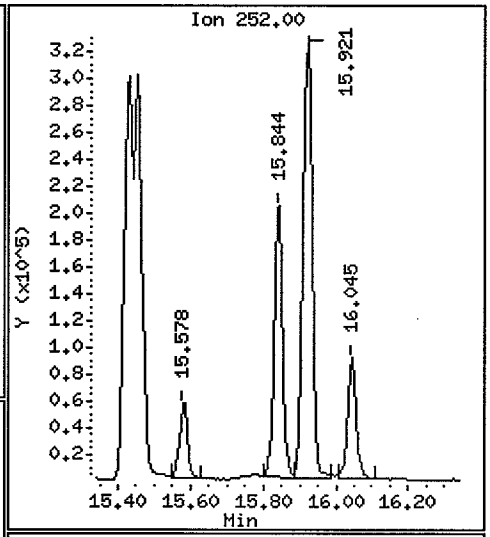
Concentration: 18530 ug/kg

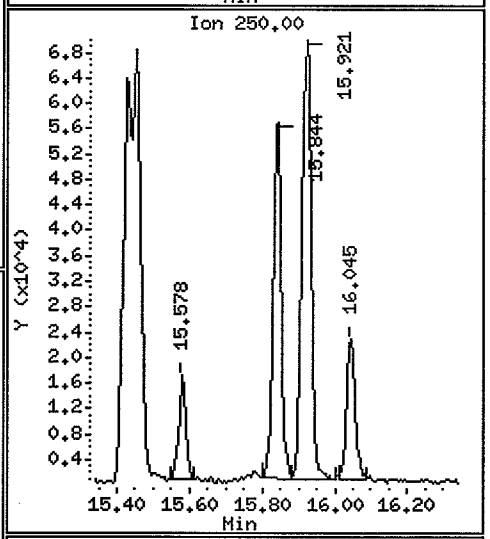


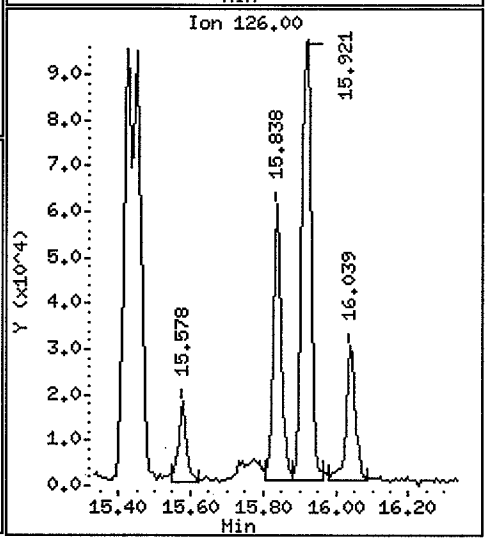












Data File: /chem3/nt1.i/20060810.b/jq36ed1.d

Date : 10-AUG-2006 17:06

Client ID: T4-S3-04-A

Instrument: nt1.i

Sample Info: JQ36E,20

Volume Injected (uL): 1.0

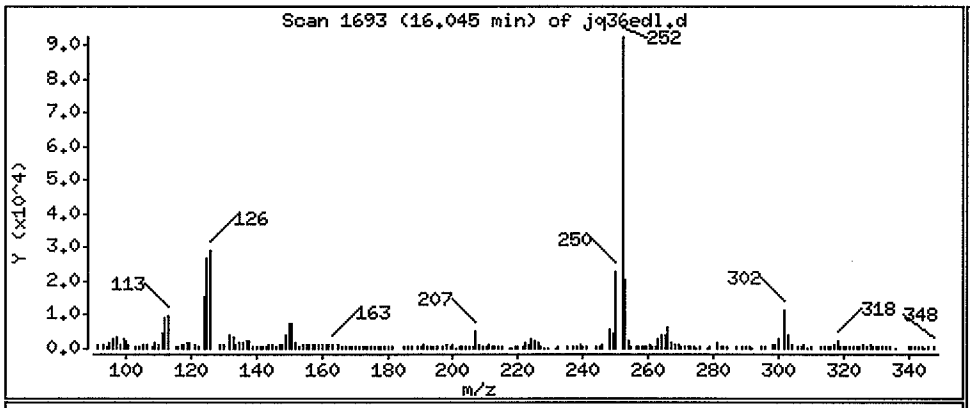
Operator: VTS

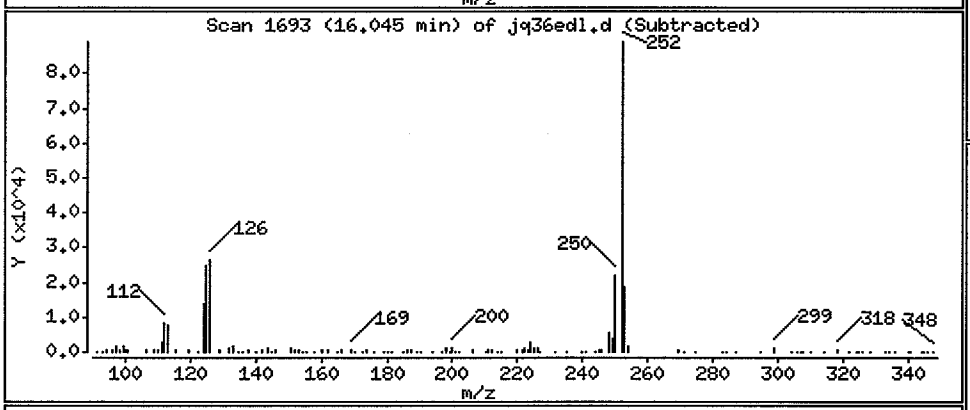
Column phase: ZB-5

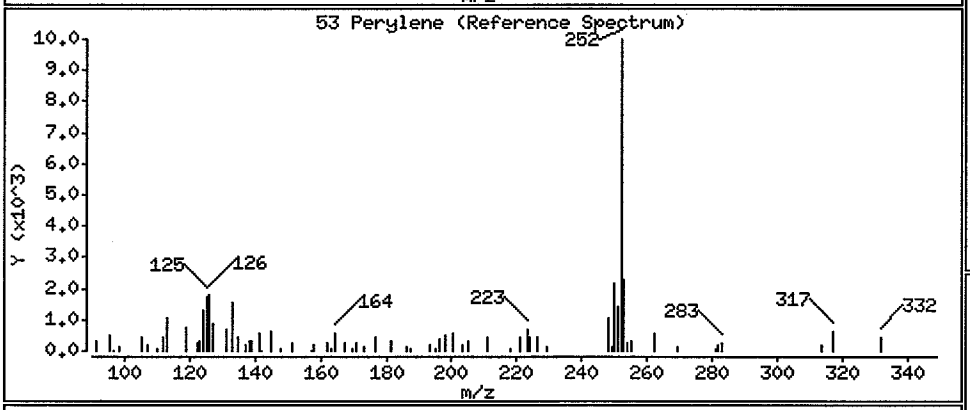
Column diameter: 0.25

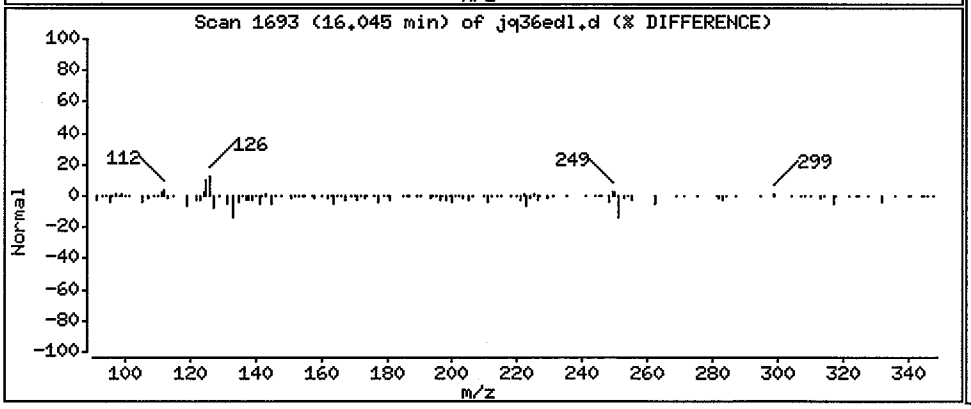
53 Perylene

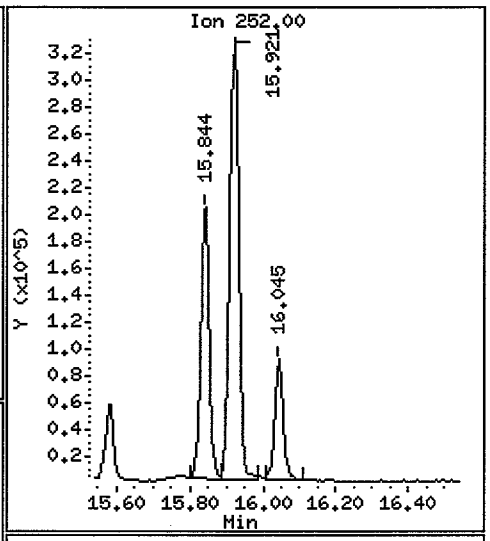
Concentration: 9089 ug/kg

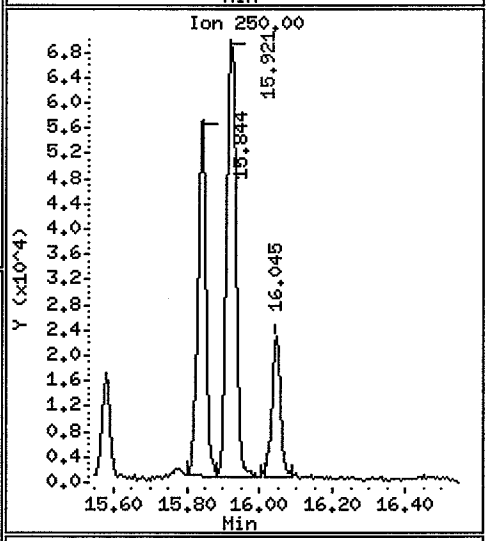


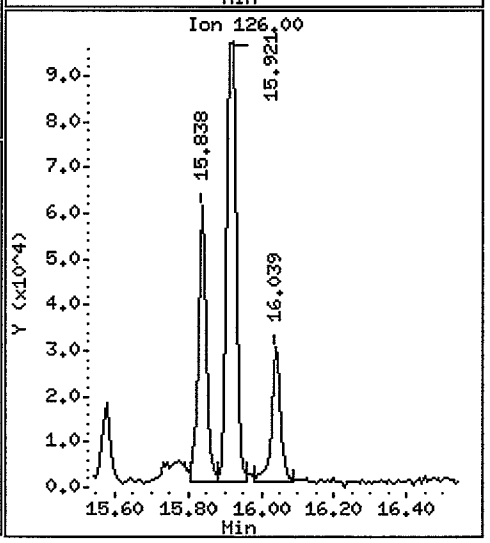












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-04-B
SAMPLE

Lab Sample ID: JQ36F
LIMS ID: 06-12977
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:31
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.6%
pH: 6.4

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**5.0**	**13**	
91-57-6	**2-Methylnaphthalene**	**5.0**	**5.9**	
90-12-0	**1-Methylnaphthalene**	**5.0**	**3.0**	**J**
208-96-8	**Acenaphthylene**	**5.0**	**3.0**	**J**
83-32-9	**Acenaphthene**	**5.0**	**48**	
86-73-7	**Fluorene**	**5.0**	**21**	
85-01-8	**Phenanthrene**	**5.0**	**200**	
120-12-7	**Anthracene**	**5.0**	**44**	
206-44-0	**Fluoranthene**	**5.0**	**500**	**E**
129-00-0	**Pyrene**	**5.0**	**450**	
56-55-3	**Benzo(a)anthracene**	**5.0**	**300**	
218-01-9	**Chrysene**	**5.0**	**380**	
205-99-2	**Benzo(b)fluoranthene**	**5.0**	**380**	
207-08-9	**Benzo(k)fluoranthene**	**5.0**	**340**	
50-32-8	**Benzo(a)pyrene**	**5.0**	**400**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.0**	**210**	
53-70-3	**Dibenz(a,h)anthracene**	**5.0**	**75**	
191-24-2	**Benzo(g,h,i)perylene**	**5.0**	**230**	
198-55-0	**Perylene**	**5.0**	**120**	
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	5.4	< 5.4	Y
192-97-2	**Benzo(e)pyrene**	**5.0**	**240**	
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	< 5.0	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.7%
d14-Dibenzo(a,h)anthracen	67.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36f.d
Lab Smp Id: JQ36F Client Smp ID: T4-S3-04-B
Inj Date : 10-AUG-2006 17:31
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36F
Misc Info : 06-12977
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 6
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	13.00000	Weight of sample extracted (g)
M	22.60000	% 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	6.872	6.874	(1.000)	311331	2.00000	
	2 Naphthalene	128	6.895	6.898	(1.003)	40548	0.26111	12.98
$	3 2-Methylnaphthalene-d10	152	7.628	7.630	(1.110)	153289	1.91160	94.99
	4 2-Methylnaphthalene	142	7.670	7.666	(1.116)	11381	0.12375	6.150
	5 1-Methylnaphthalene	142	7.800	7.796	(1.135)	6052	0.06274	3.118 J
	7 Acenaphthylene	152	8.757	8.753	(0.980)	7262	0.05522	2.744 J
*	8 Acenaphthene-d10	164	8.934	8.937	(1.000)	158607	2.00000	
	9 Acenaphthene	153	8.970	8.972	(1.004)	75710	0.97215	48.31
	10 Dibenzofuran	168	9.165	9.161	(1.026)	22080	0.19248	9.565
	11 Fluorene	166	9.585	9.587	(1.073)	38071	0.42631	21.18
*	15 Phenanthrene-d10	188	10.749	10.745	(1.000)	240342	2.00000	
	16 Phenanthrene	178	10.778	10.775	(1.003)	510014	4.13423	205.4
	17 Anthracene	178	10.832	10.828	(1.008)	108930	0.88359	43.91
	19 Fluoranthene	202	12.274	12.270	(1.142)	1266596	10.0661	500.2 E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.557	12.554	(0.893)	1237880	9.11577	453.0
	22 Benzo(a)anthracene	228	14.041	14.037	(0.999)	778857	6.11595	303.9
*	23 Chrysene-d12	240	14.059	14.055	(1.000)	211477	2.00000	
	24 Chrysene	228	14.094	14.090	(1.003)	893309	7.60519	377.9
	28 Benzo(b)fluoranthene	252	15.436	15.426	(0.964)	1037741	7.77374	386.3
	29 Benzo(k)fluoranthene	252	15.459	15.455	(0.966)	989889	6.95555	345.6
	30 Benzo(a)pyrene	252	15.926	15.916	(0.995)	1036862	7.97120	396.1
*	31 Perylene-d12	264	16.009	15.999	(1.000)	236532	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.965	17.949	(1.122)	640709	4.28318	212.8
$	32 Dibenz(a,h)anthrancene-d14	292	17.888	17.873	(1.117)	182506	2.01619	100.2
	34 Dibenz(a,h)anthracene	278	17.947	17.944	(1.121)	185243	1.51587	75.33
	35 Benzo(g,h,i)perylene	276	18.544	18.529	(1.158)	572881	4.60717	228.9
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.403	8.399	(0.940)	4064	0.05265	2.617
	50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
	51 1-Methylphenanthrene	192	11.553	11.549	(0.822)	9380	0.10836	5.385(M)
	52 Benzo(e)pyrene	252	15.849	15.840	(0.990)	707733	4.91537	244.3
	53 Perylene	252	16.050	16.040	(1.003)	330914	2.44776	121.6

JCA

Y

QC Flag Legend

M - Compound response manually integrated.

VTS
8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36f.d
Lab Smp Id: JQ36F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12977

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-S3-04-B
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	311331	22.95
8 Acenaphthene-d10	122198	61099	244396	158607	29.80
15 Phenanthrene-d10	181565	90782	363130	240342	32.37
23 Chrysene-d12	143956	71978	287912	211477	46.90
31 Perylene-d12	157395	78698	314790	236532	50.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.03
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.04
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.03
31 Perylene-d12	16.00	15.50	16.50	16.01	0.06

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

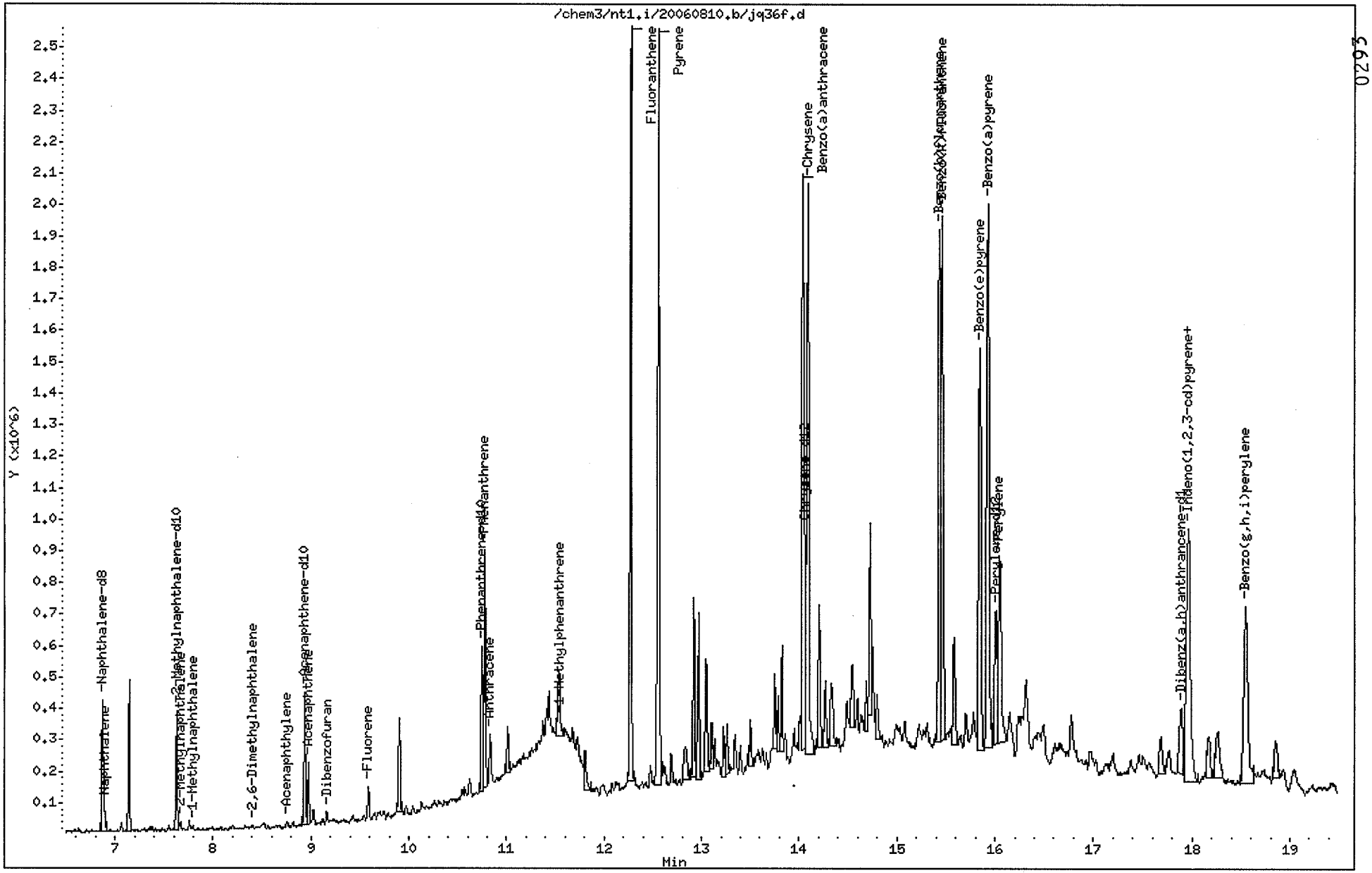
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36F
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12977

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-04-B
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	149.1	94.99	63.72	32-97
$ 32 Dibenz(a,h)anthran	149.1	100.2	67.21	21-105

Data File: /chem3/nt1.i/20060810.b/jq36f.d
Date : 10-AUG-2006 17:31
Client ID: T4-S3-04-B
Sample Info: JQ36F
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0293

Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

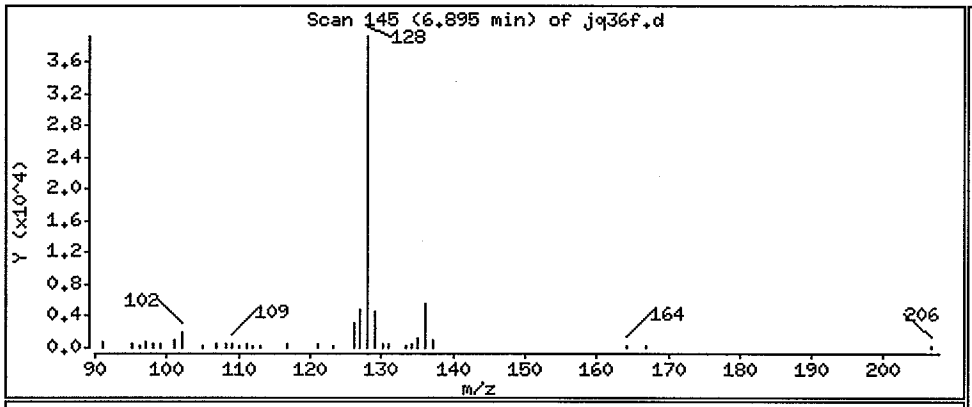
Operator: VTS

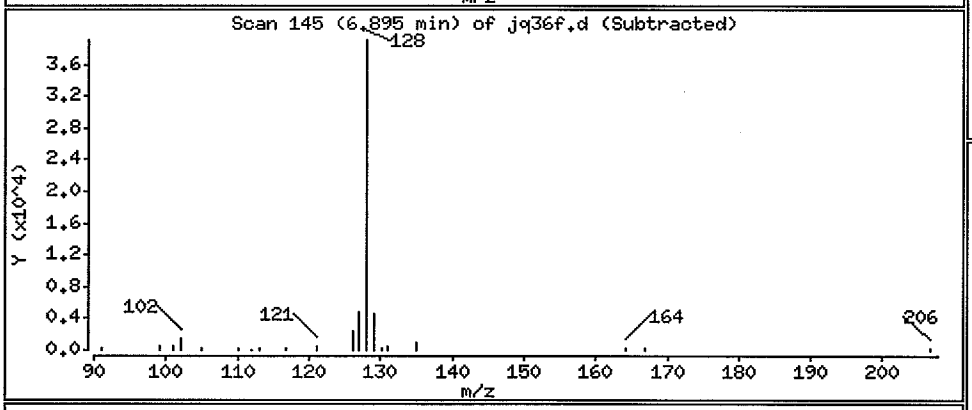
Column phase: ZB-5

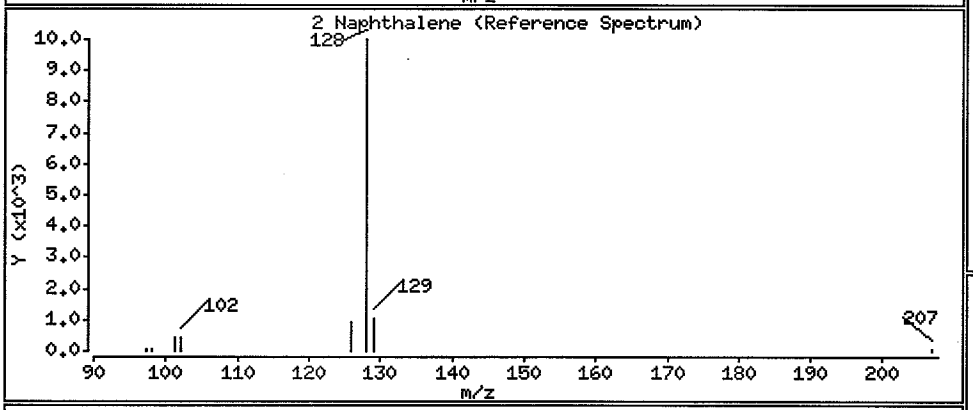
Column diameter: 0.25

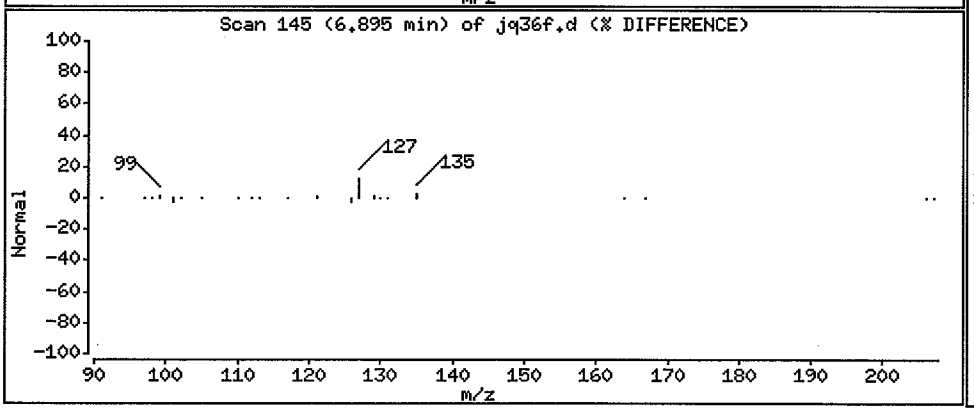
2 Naphthalene

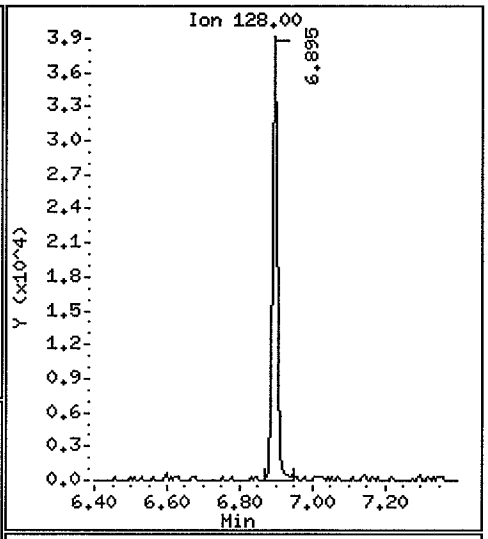
Concentration: 12.98 ug/kg

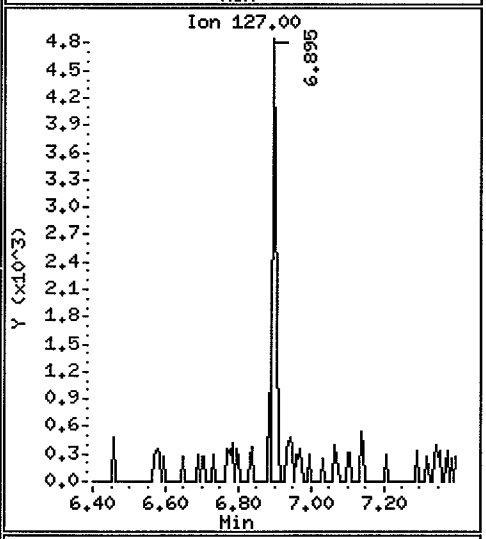


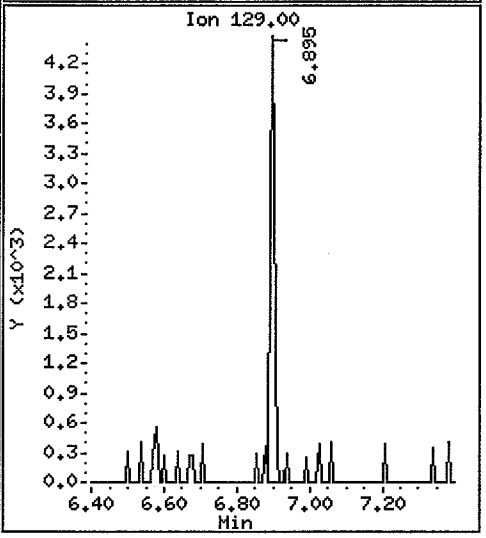












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

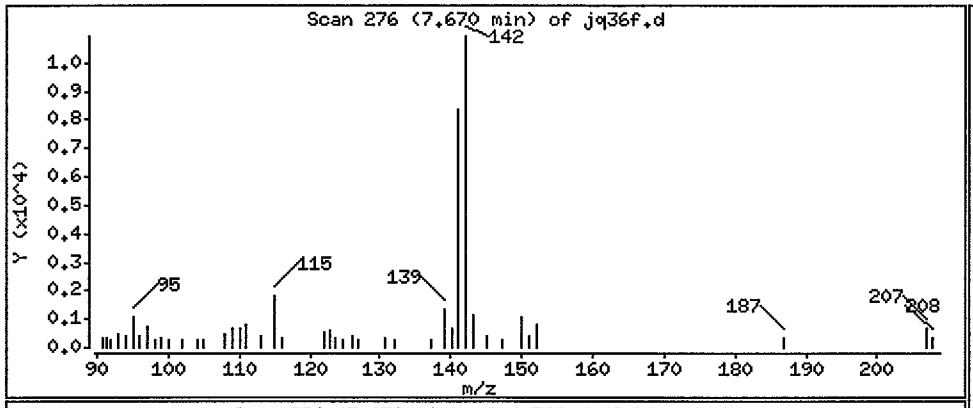
Operator: VTS

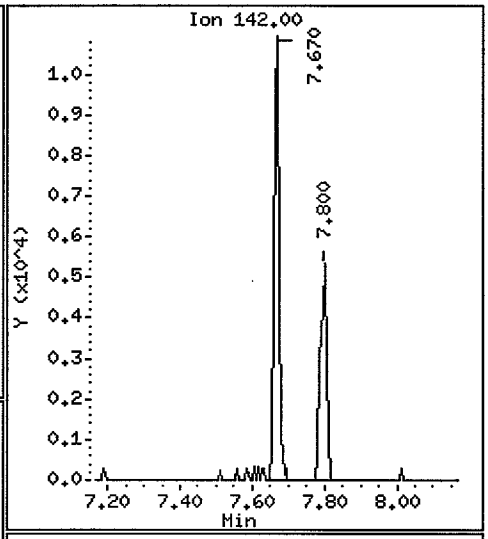
Column phase: ZB-5

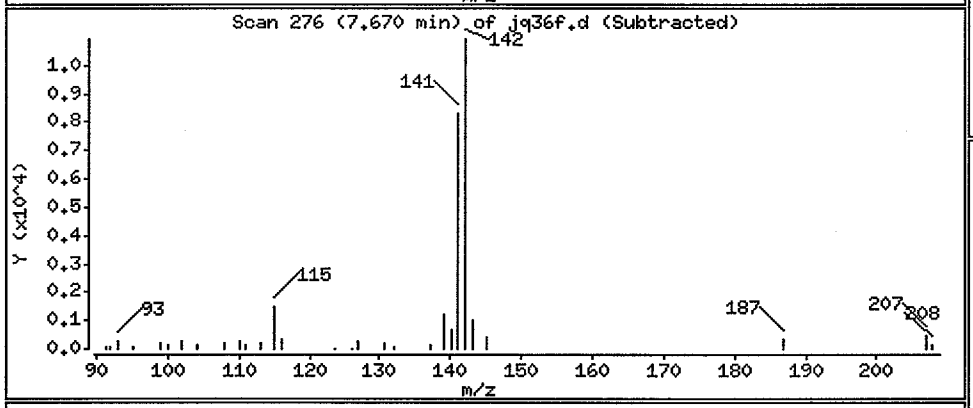
Column diameter: 0.25

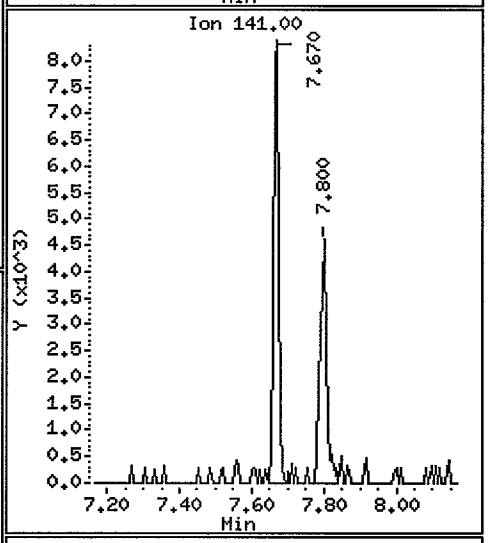
4 2-Methylnaphthalene

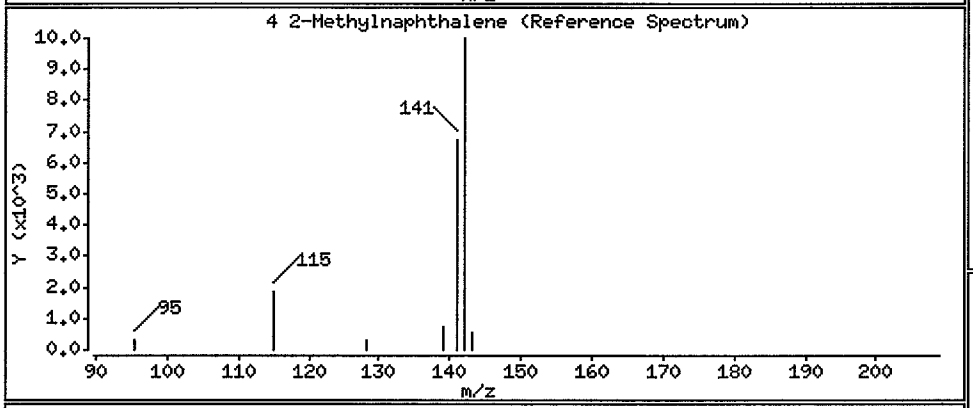
Concentration: 6.150 ug/kg

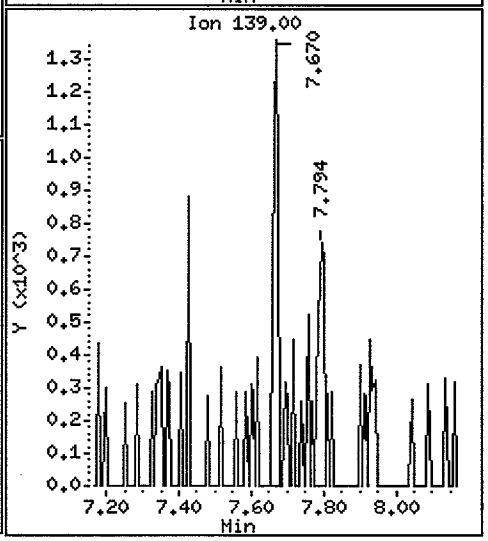


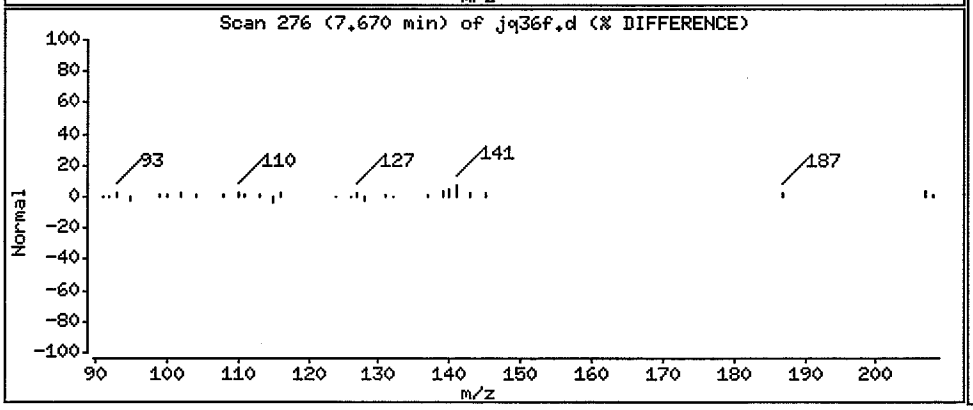












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

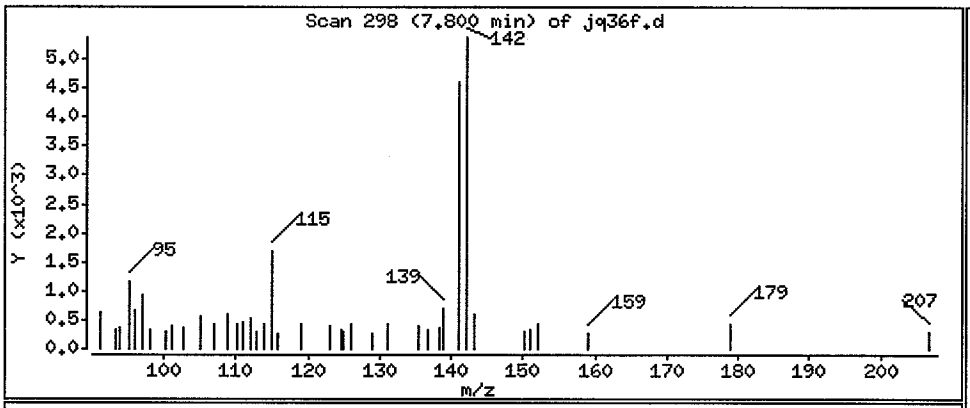
Operator: VTS

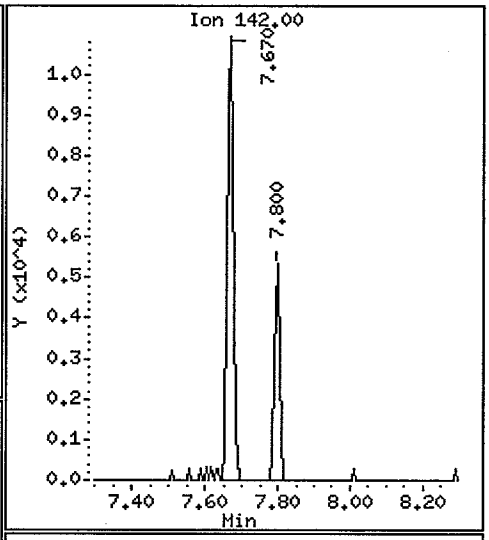
Column phase: ZB-5

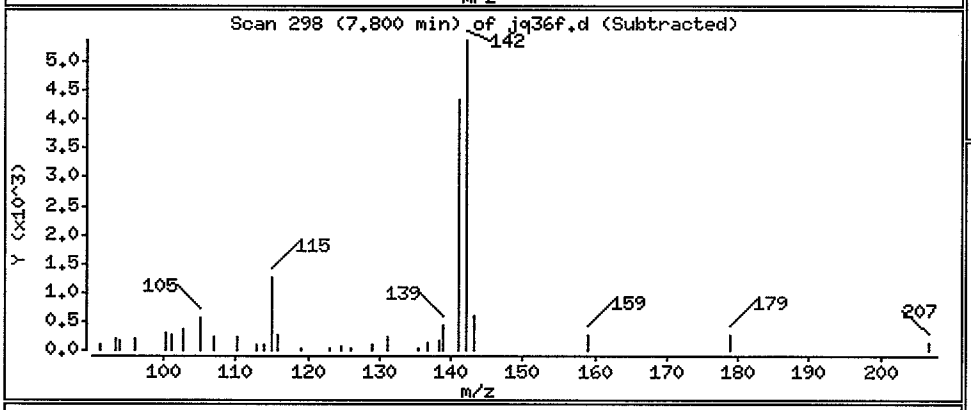
Column diameter: 0.25

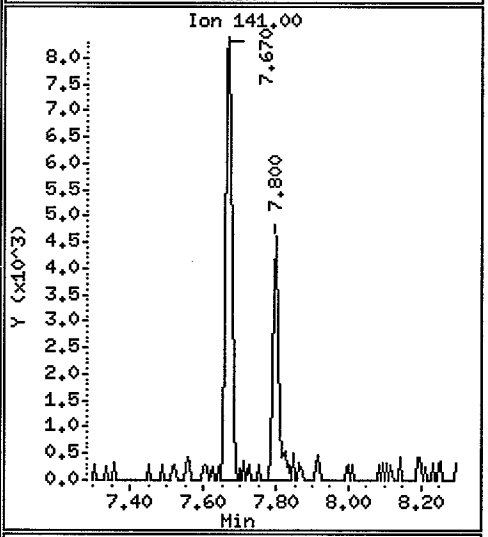
5 1-Methylnaphthalene

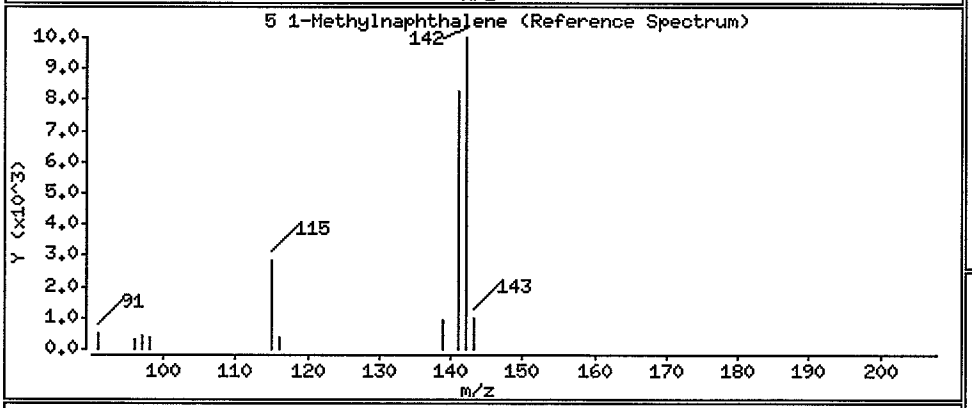
Concentration: 3.118 ug/kg

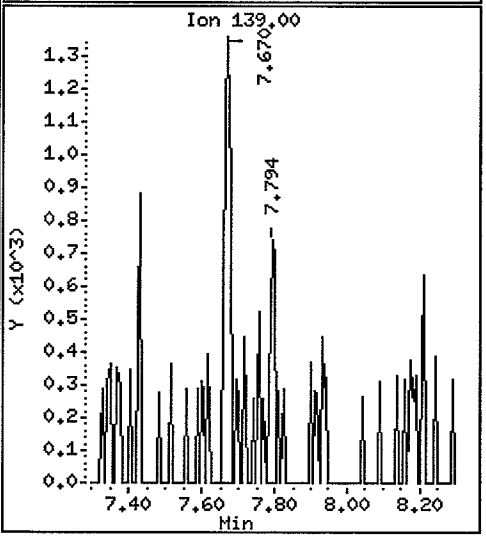


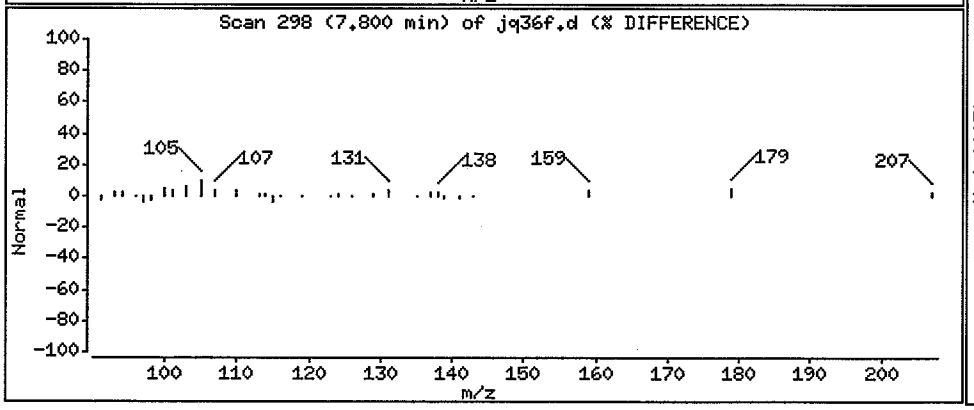












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

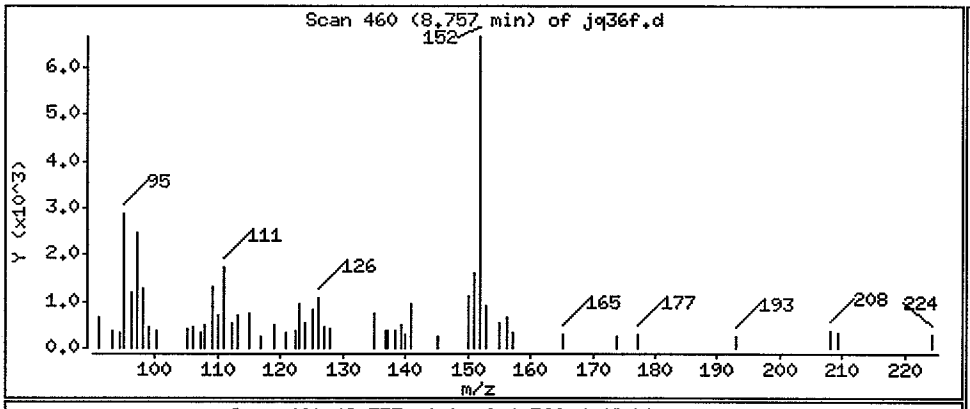
Operator: VTS

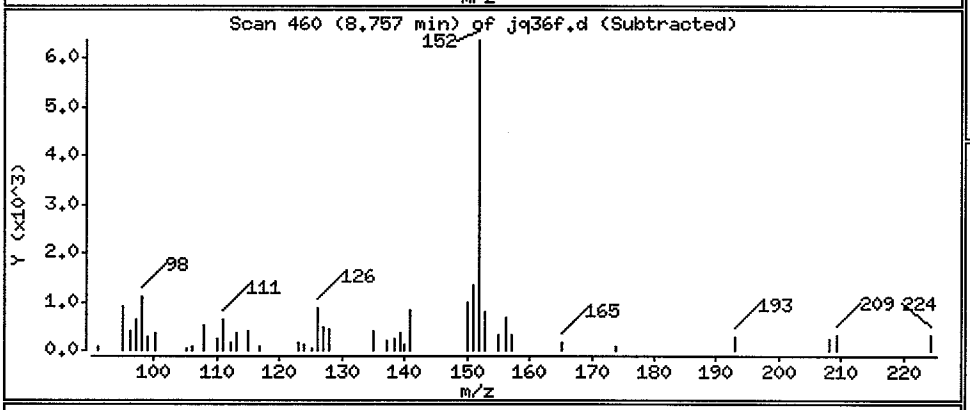
Column phase: ZB-5

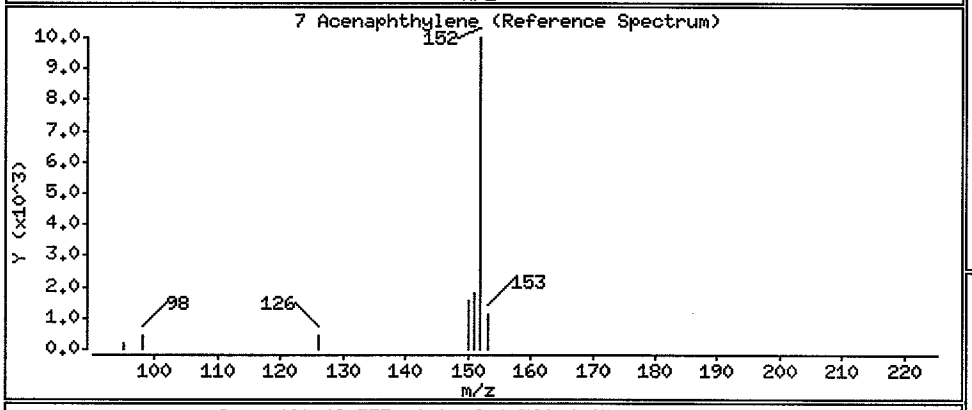
Column diameter: 0.25

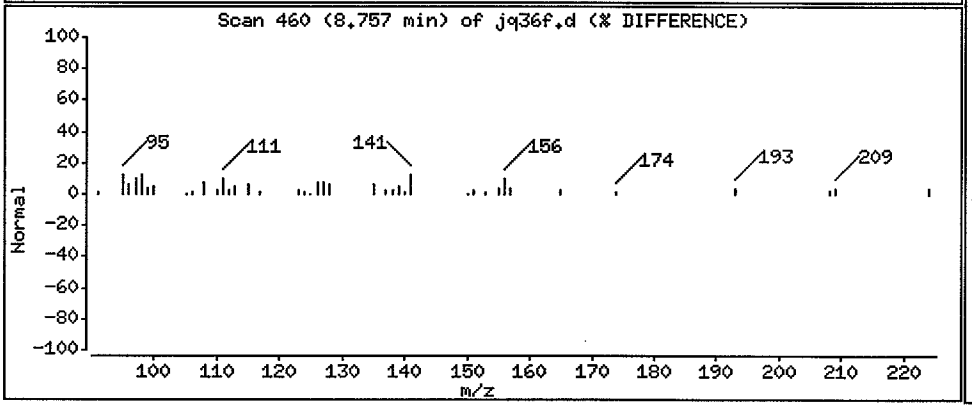
7 Acenaphthylene

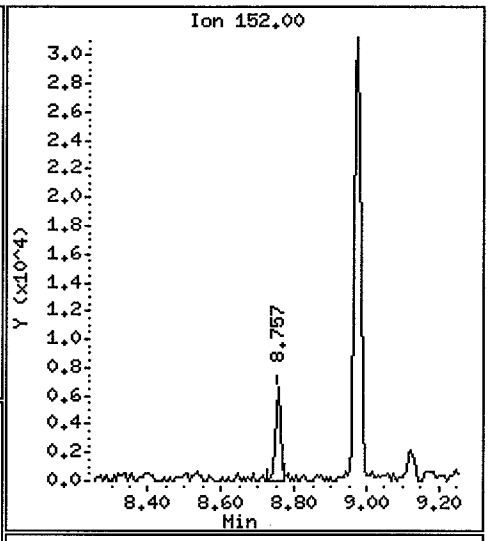
Concentration: 2.744 ug/kg

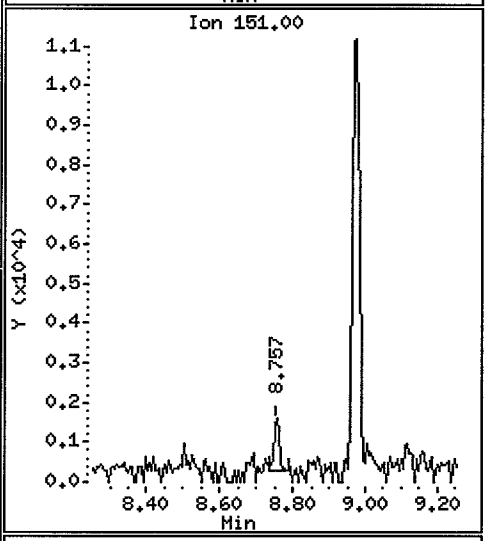


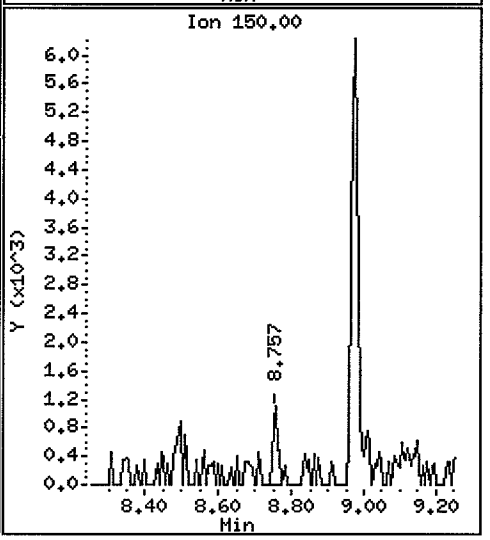












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

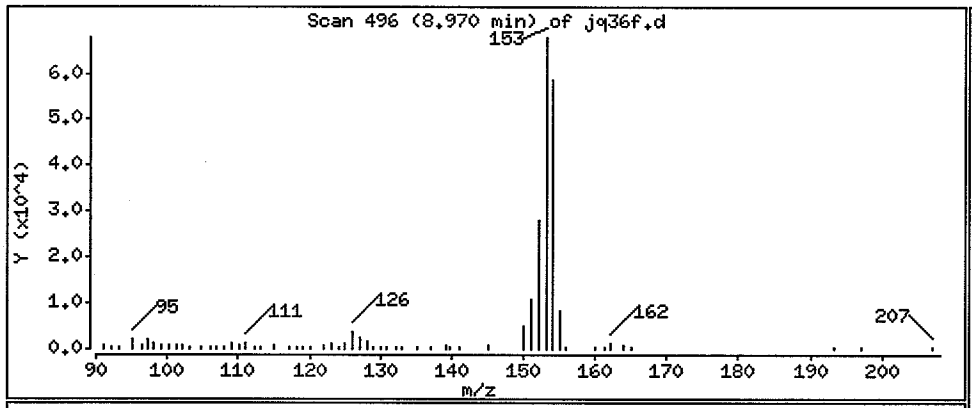
Operator: VTS

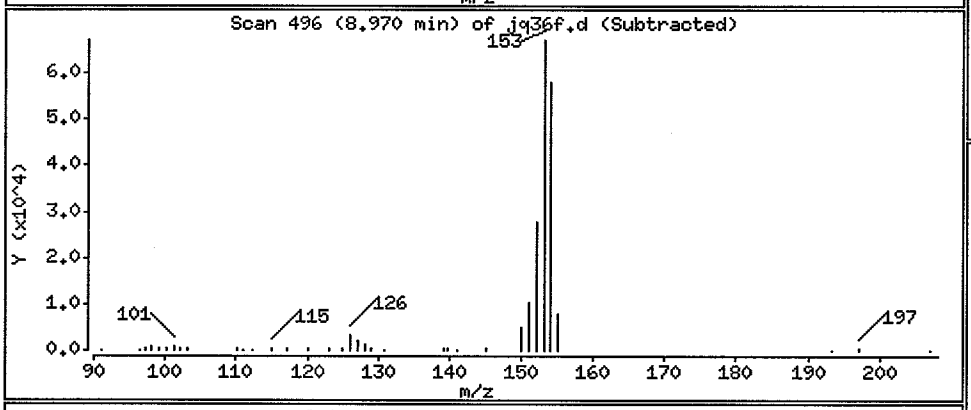
Column phase: ZB-5

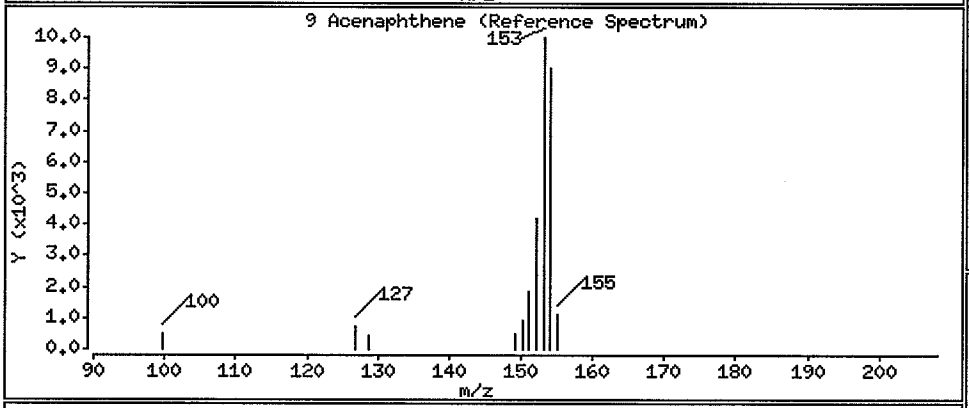
Column diameter: 0.25

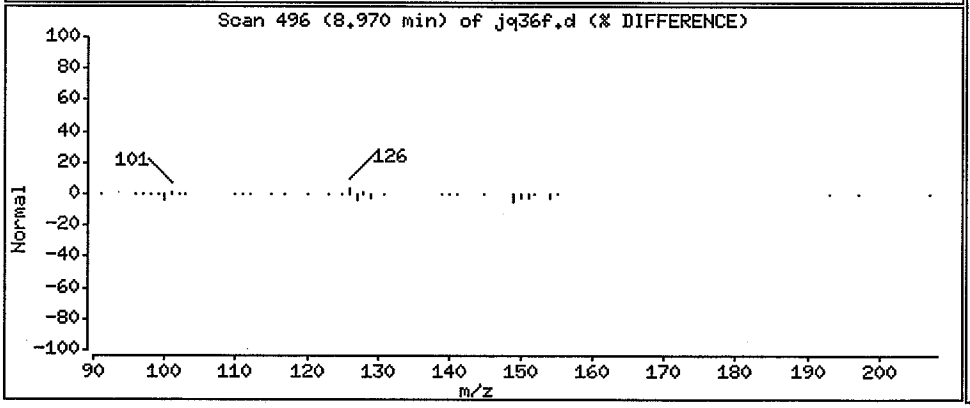
9 Acenaphthene

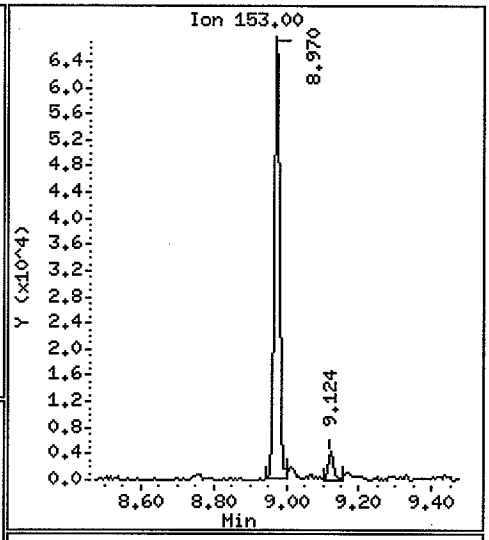
Concentration: 48.31 ug/kg

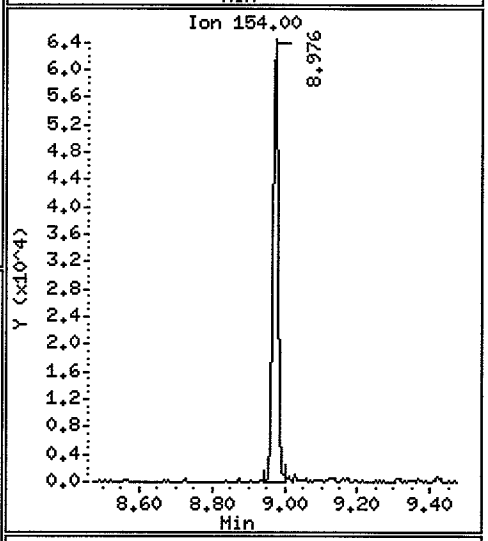


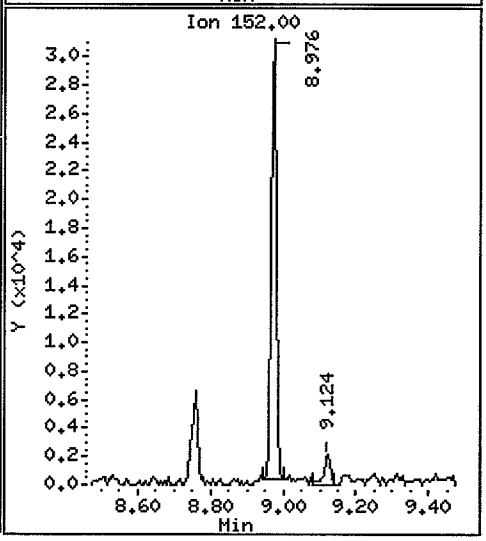












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

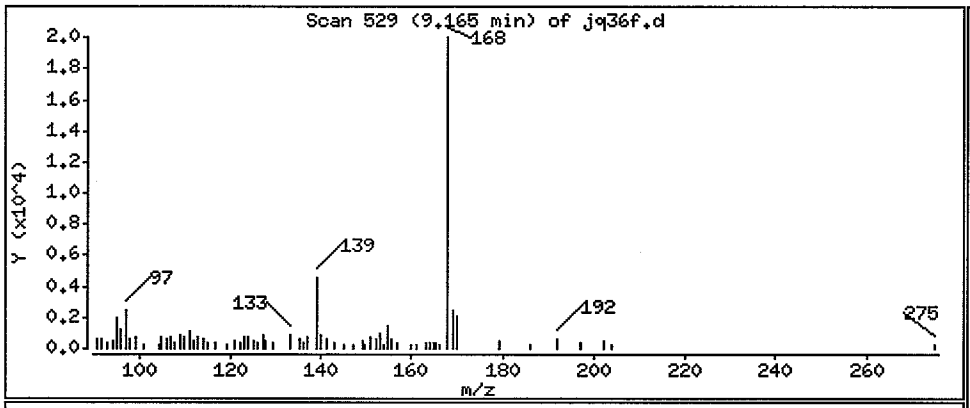
Operator: VTS

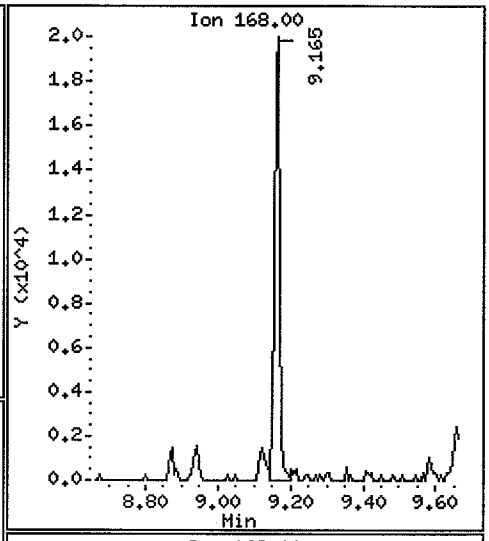
Column phase: ZB-5

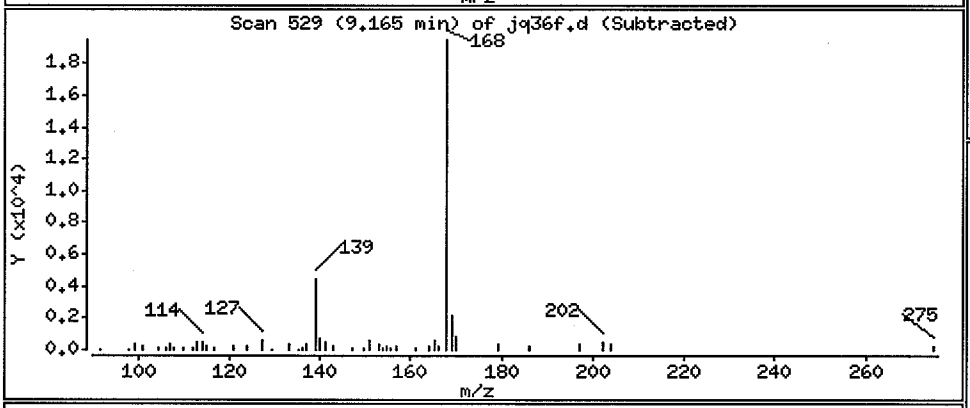
Column diameter: 0.25

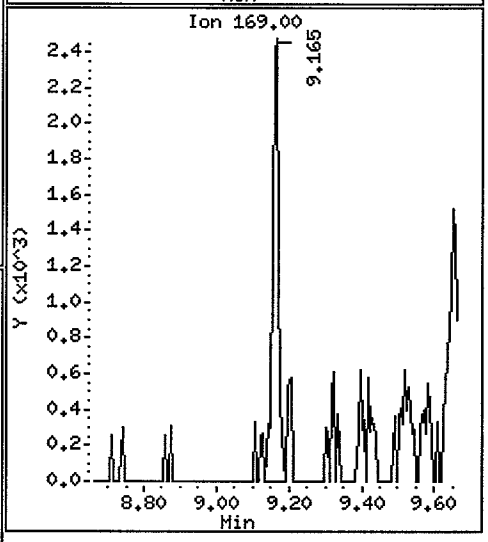
10 Dibenzofuran

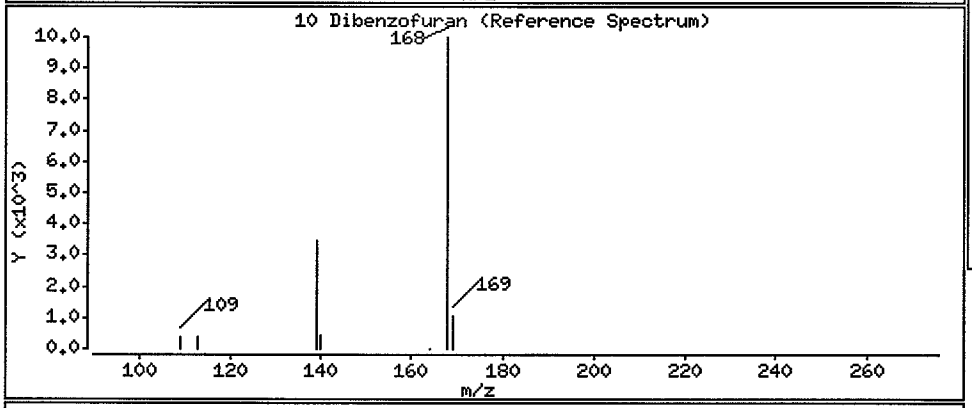
Concentration: 9.565 ug/kg

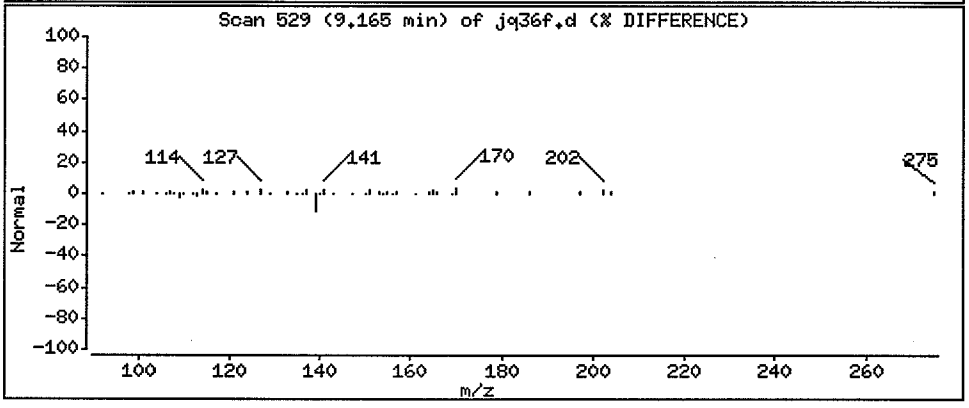












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

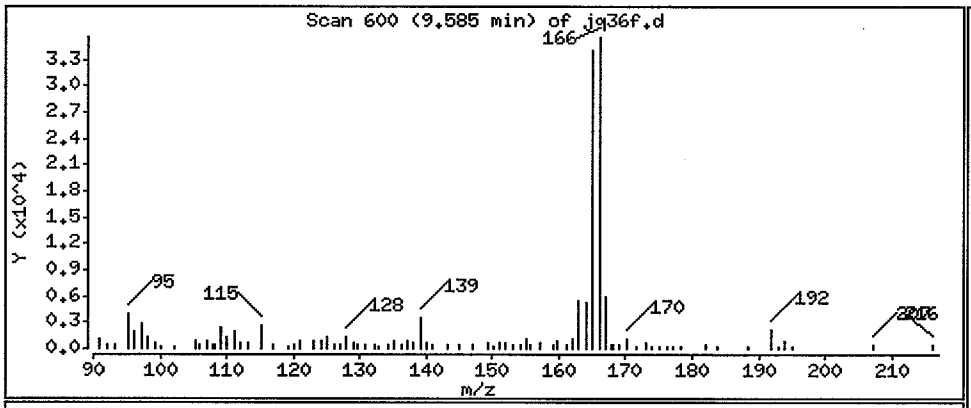
Operator: VTS

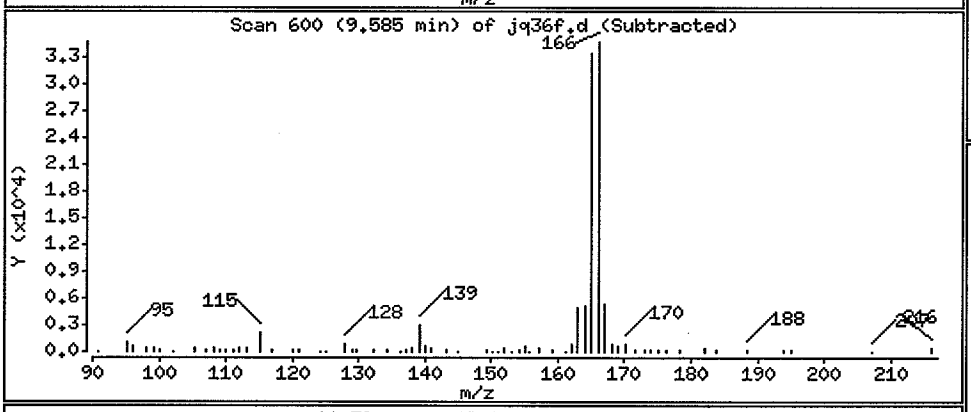
Column phase: ZB-5

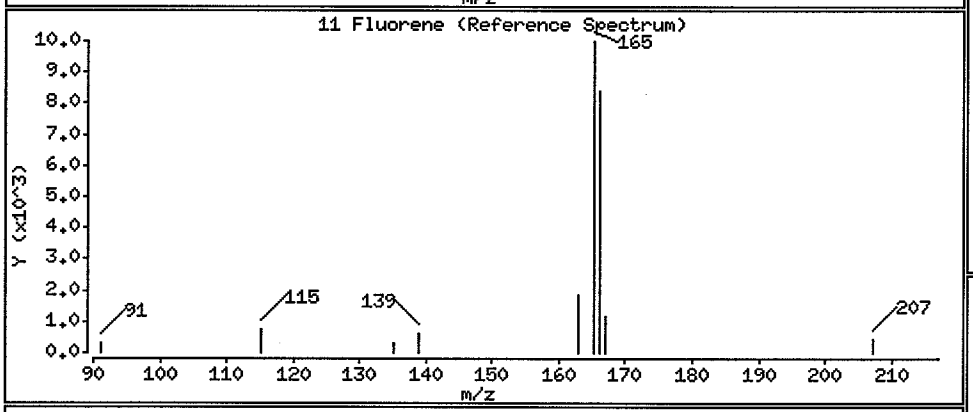
Column diameter: 0.25

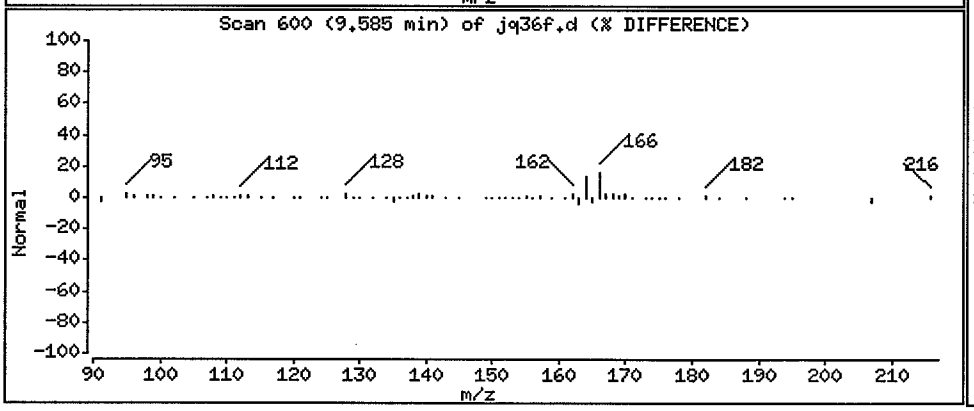
11 Fluorene

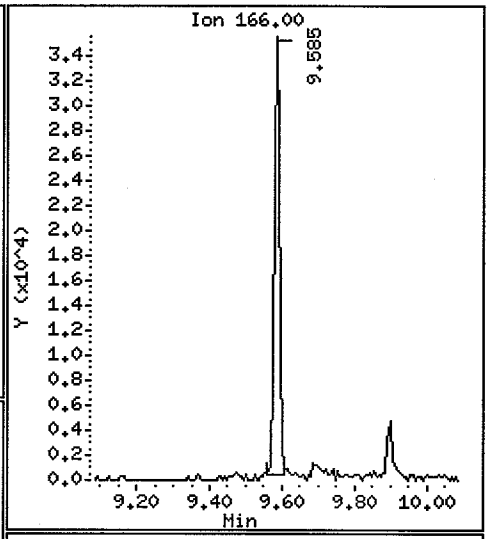
Concentration: 21.18 ug/kg

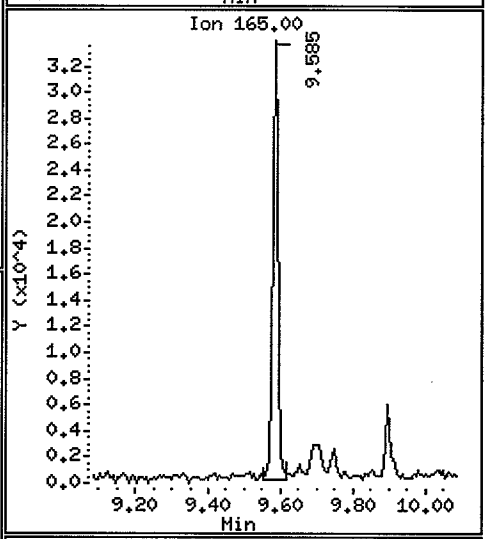


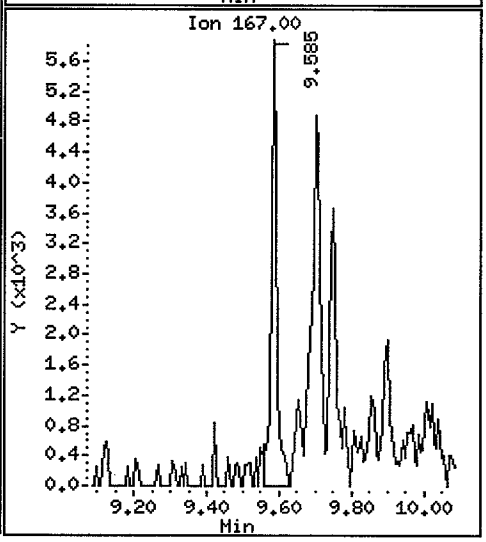












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

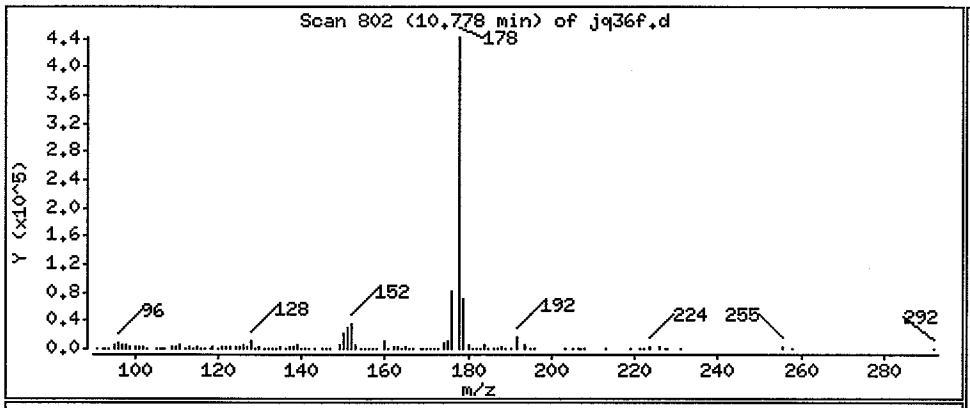
Operator: VTS

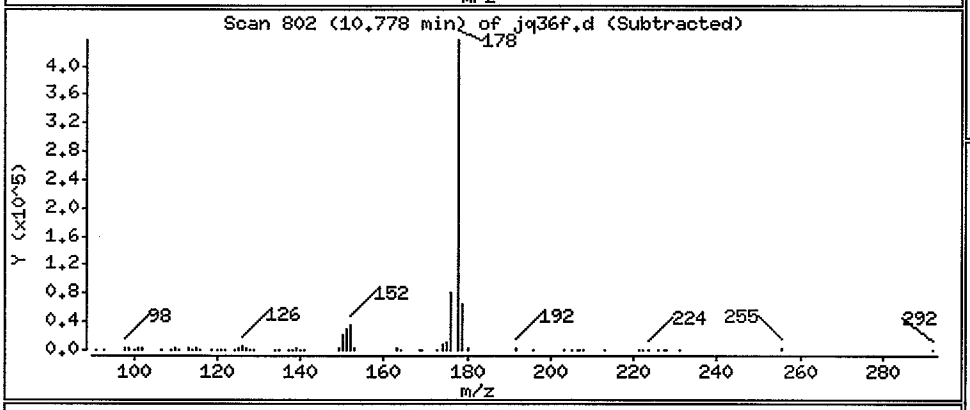
Column phase: ZB-5

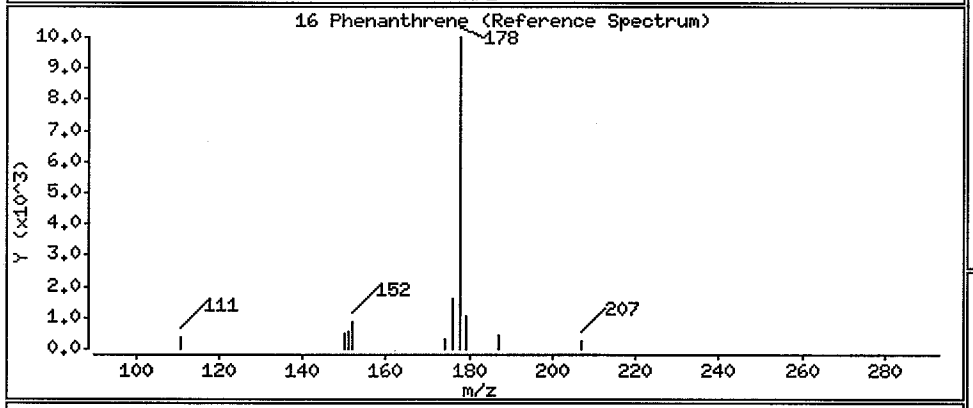
Column diameter: 0.25

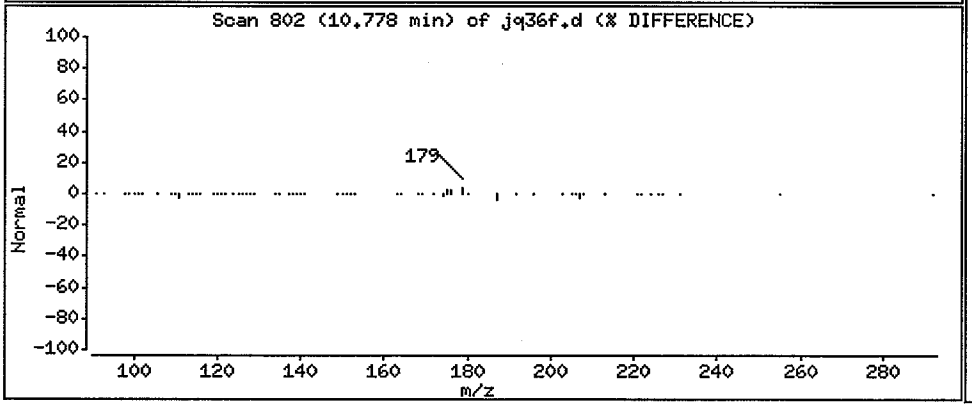
16 Phenanthrene

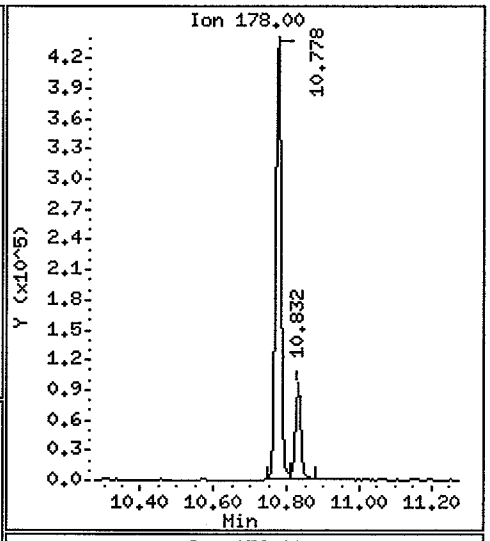
Concentration: 205.4 ug/kg

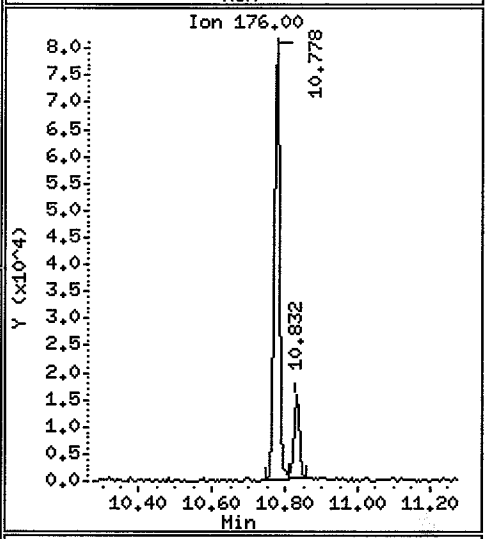


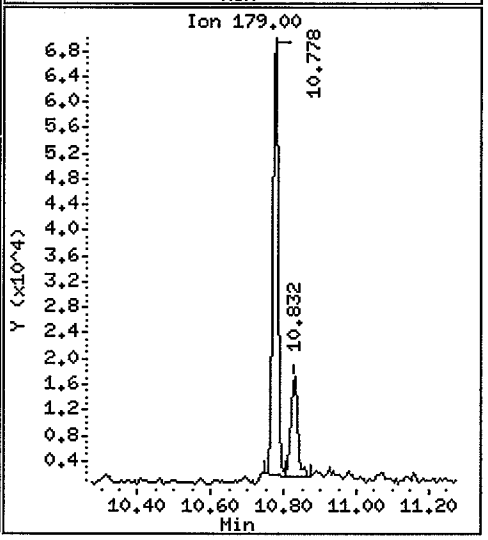












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

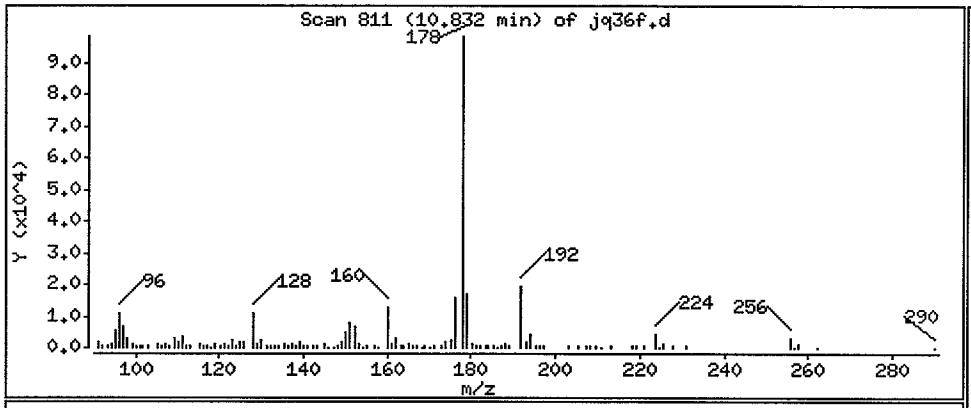
Operator: VTS

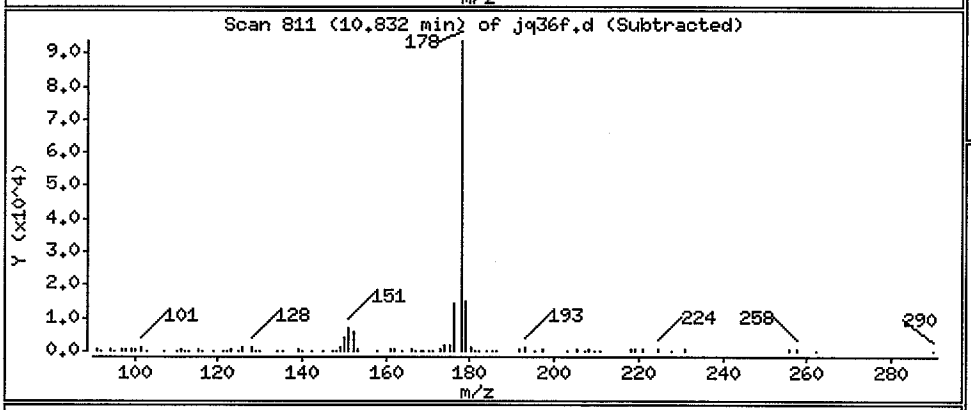
Column phase: ZB-5

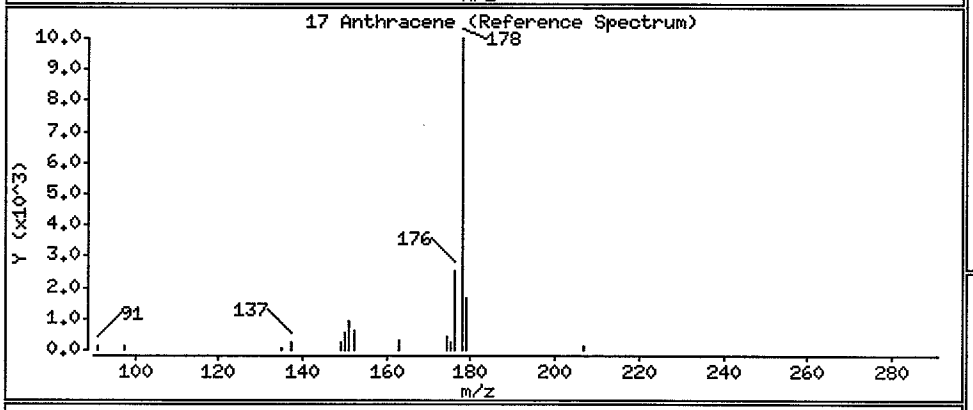
Column diameter: 0.25

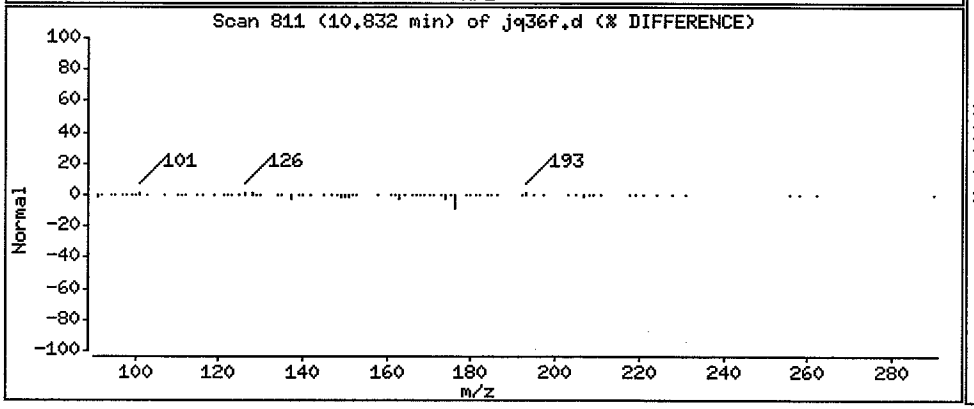
17 Anthracene

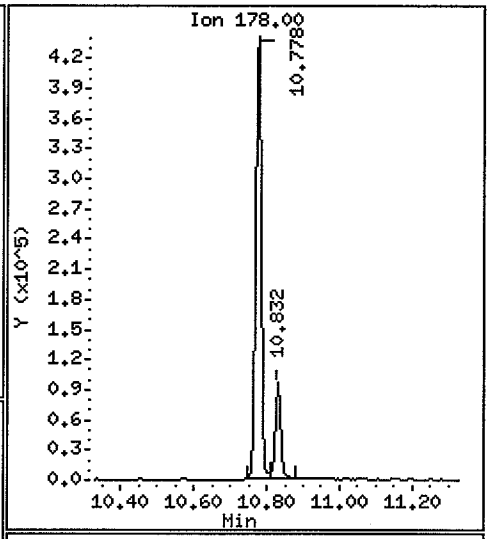
Concentration: 43.91 ug/kg

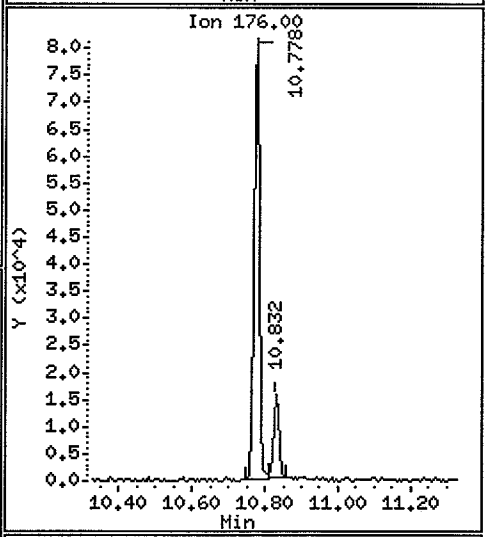


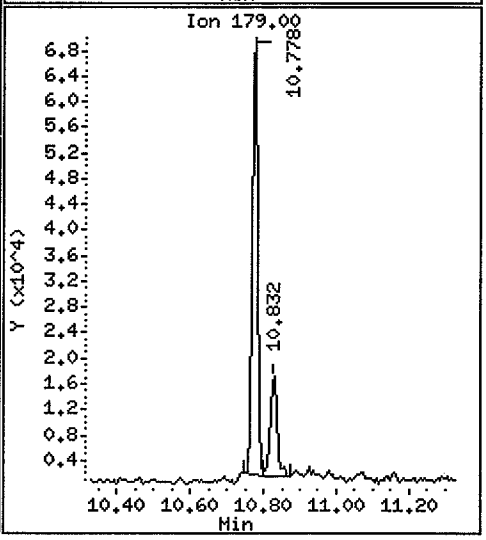












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

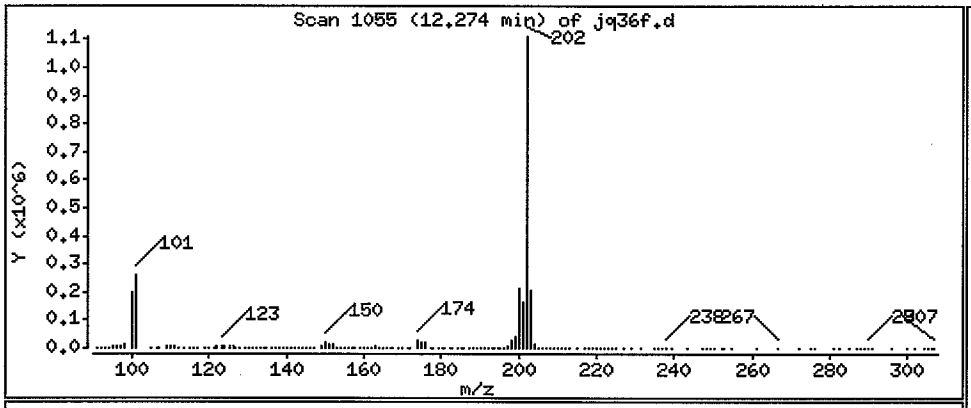
Operator: VTS

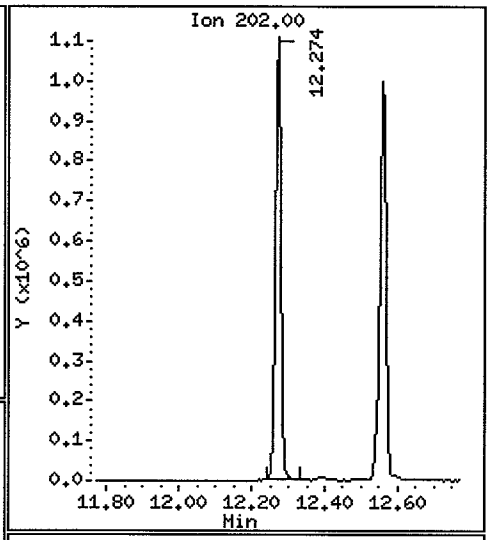
Column phase: ZB-5

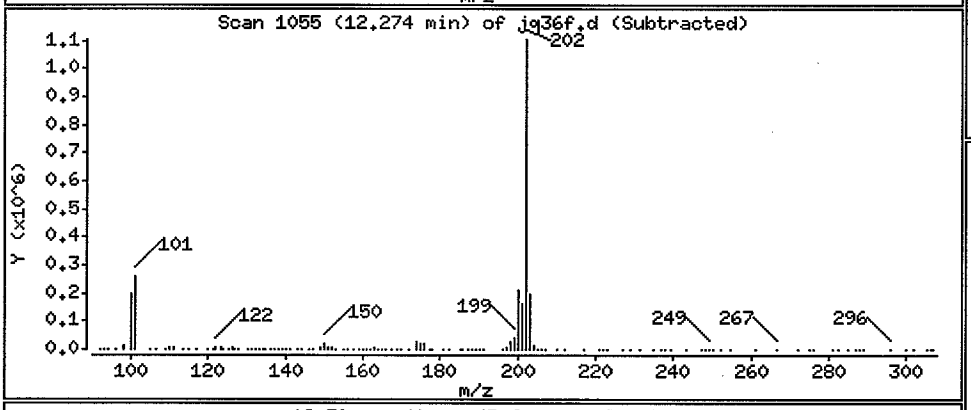
Column diameter: 0.25

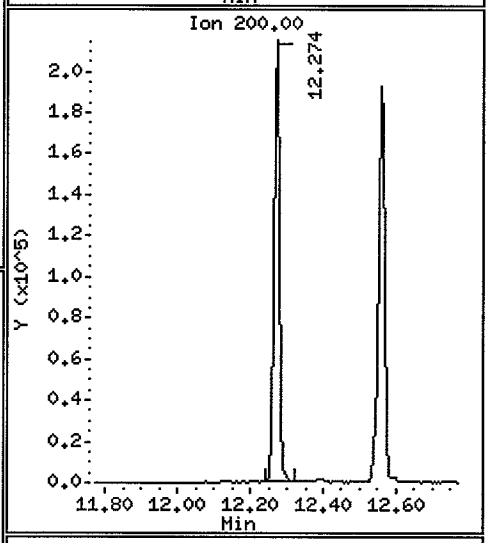
19 Fluoranthene

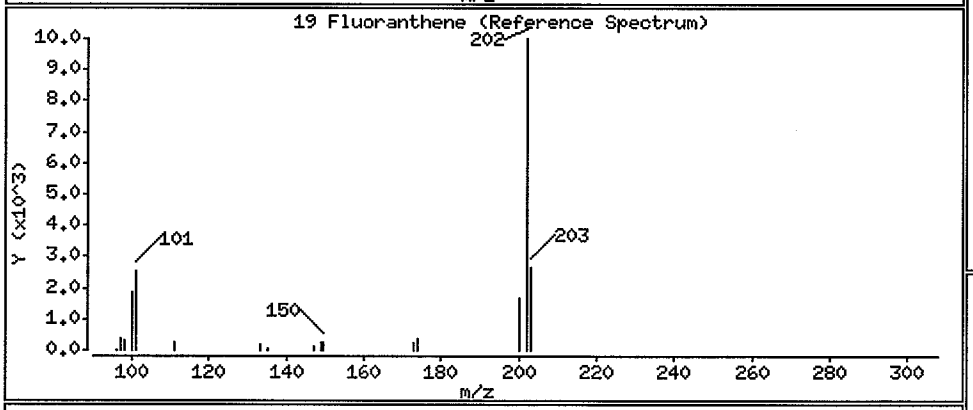
Concentration: 500.2 ug/kg

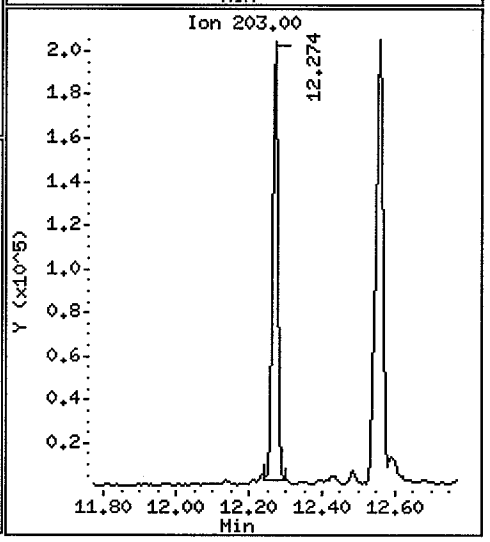


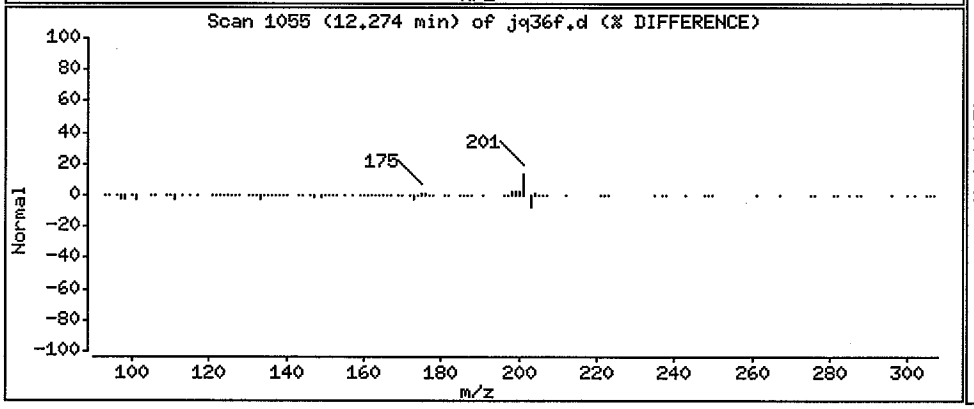












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

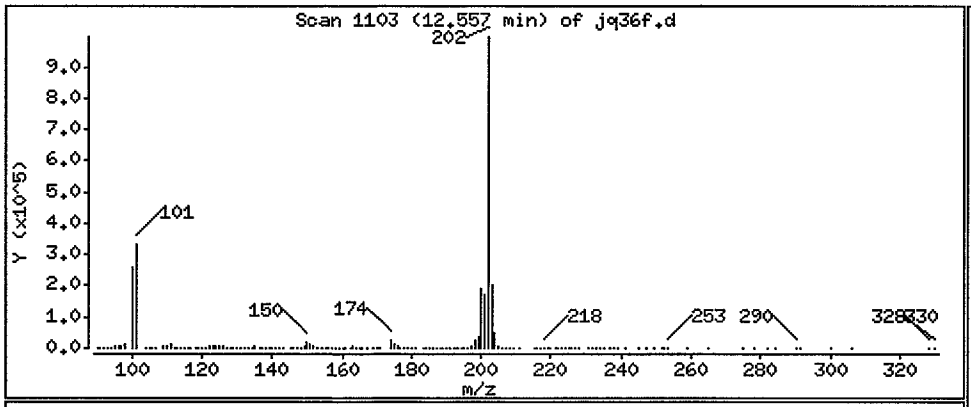
Operator: VTS

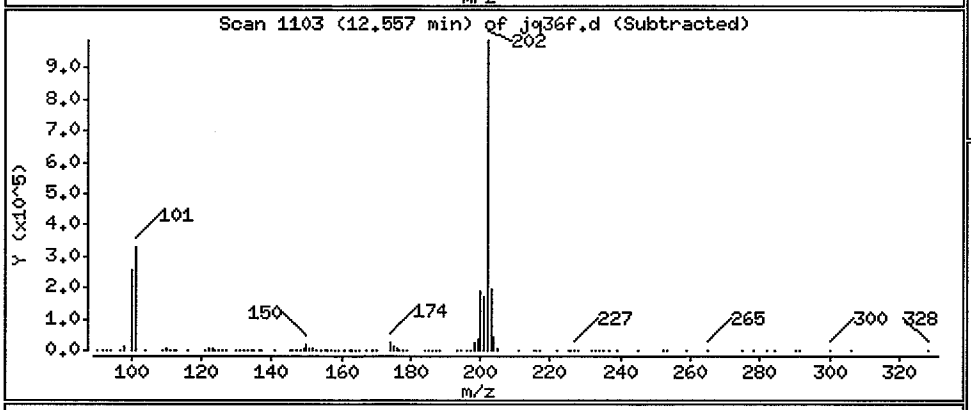
Column phase: ZB-5

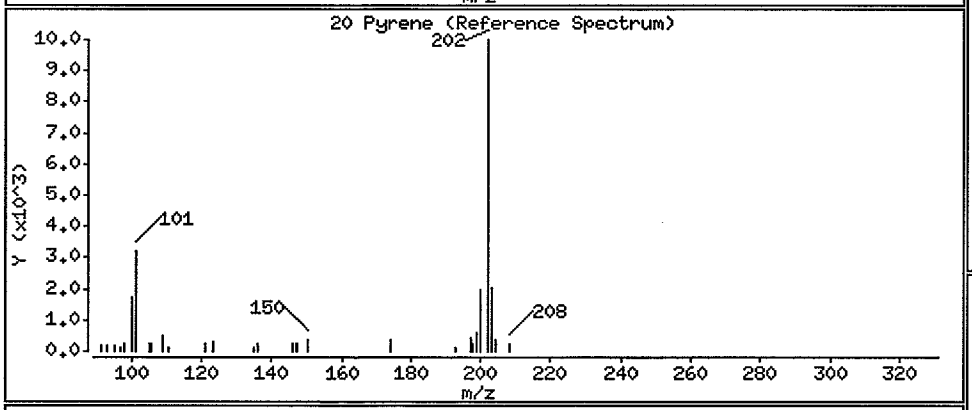
Column diameter: 0.25

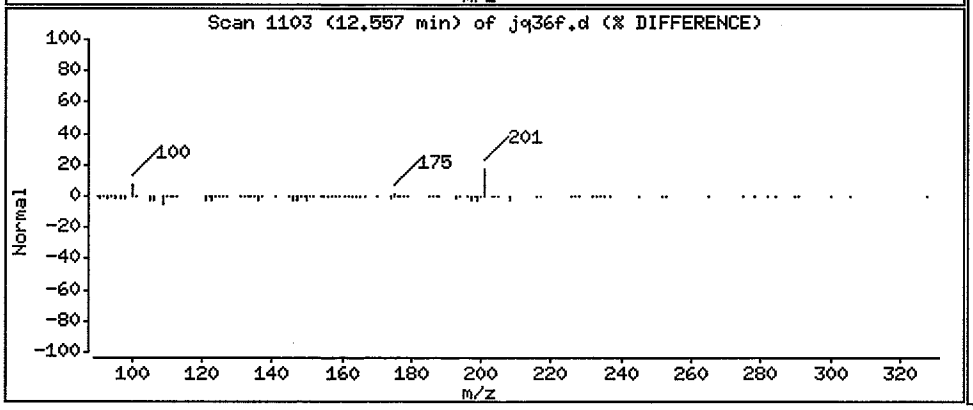
20 Pyrene

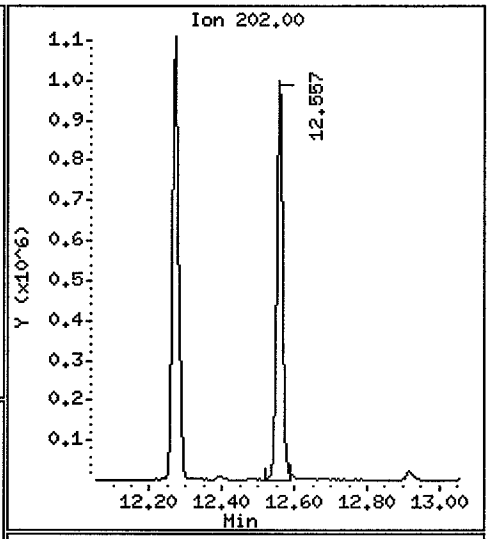
Concentration: 453.0 ug/kg

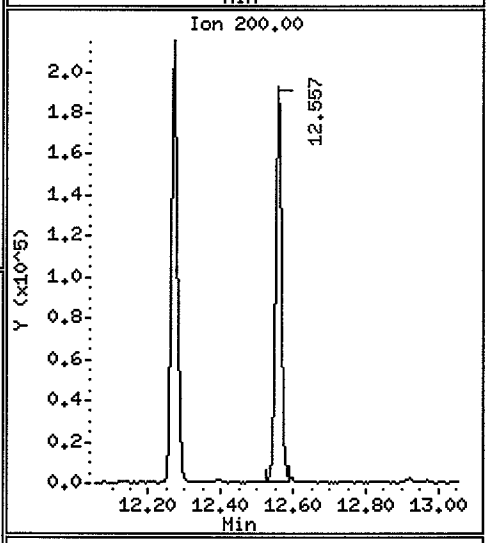


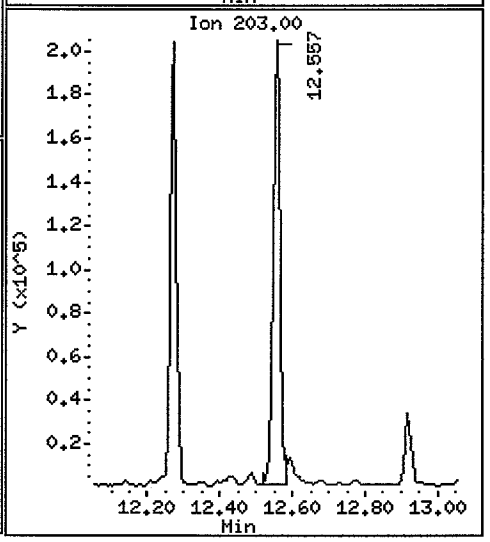












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

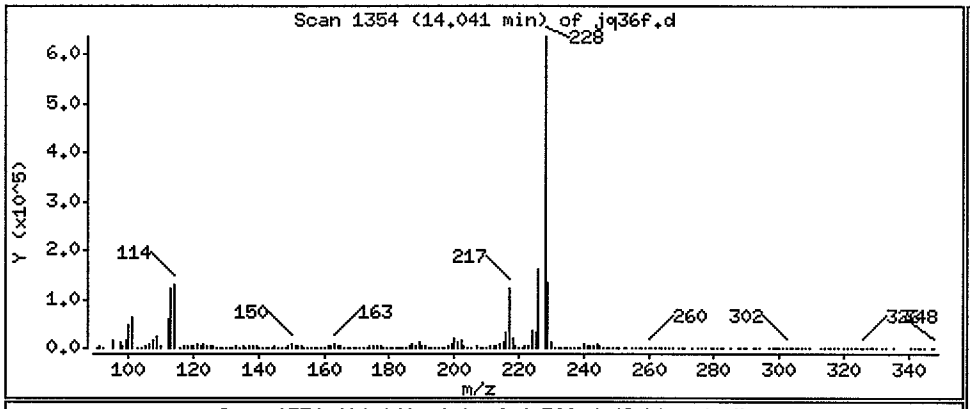
Operator: VTS

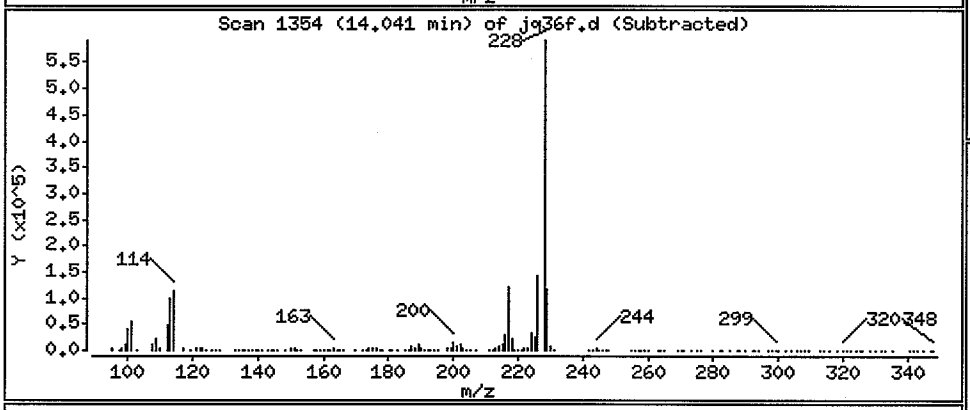
Column phase: ZB-5

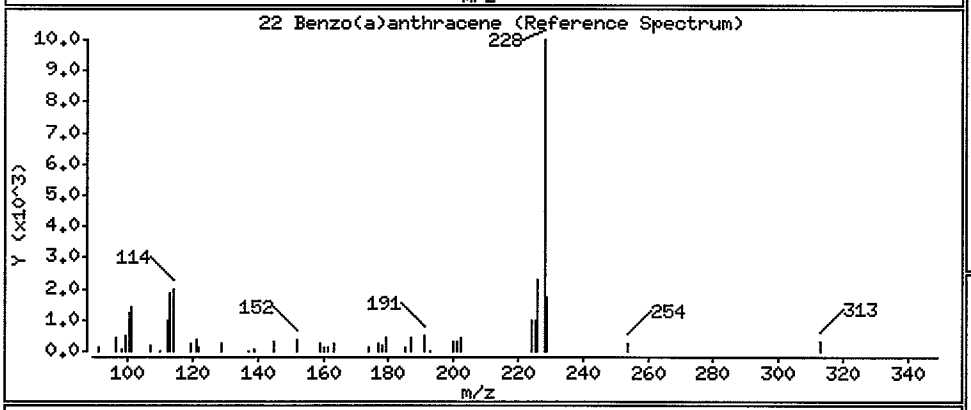
Column diameter: 0.25

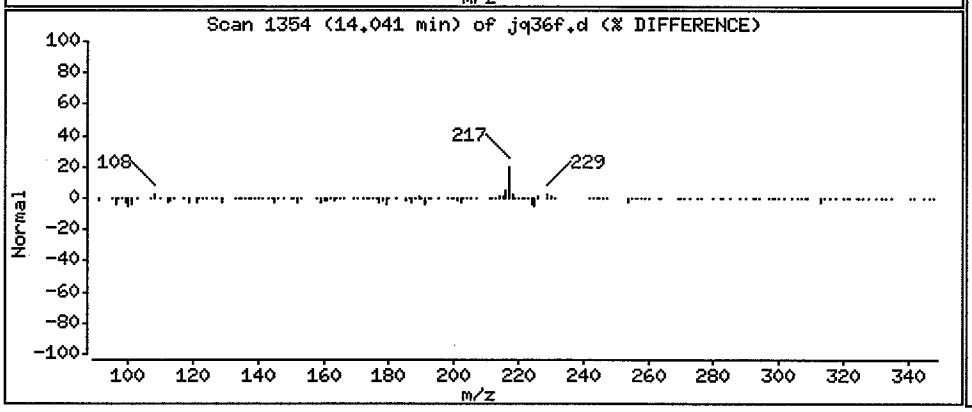
22 Benzo(a)anthracene

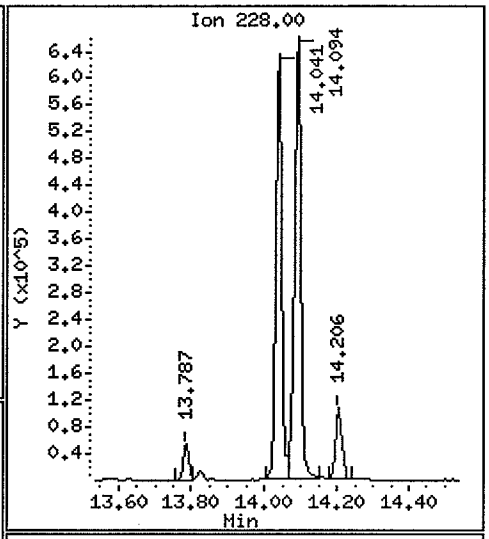
Concentration: 303.9 ug/kg

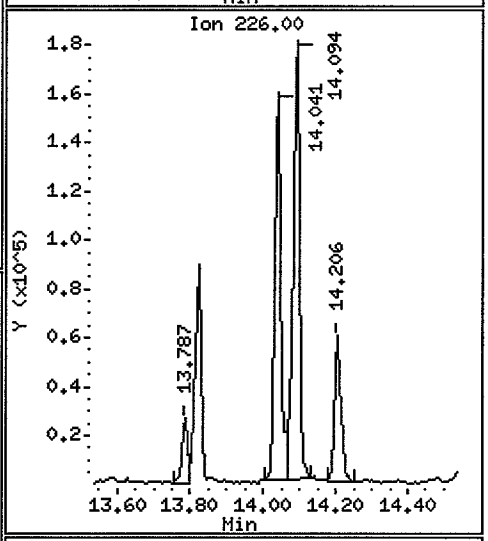


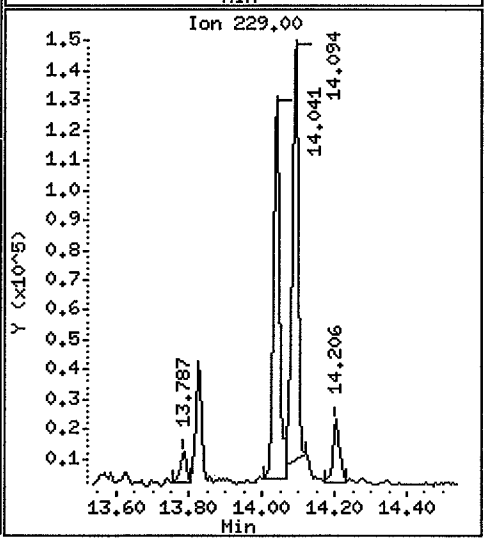












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

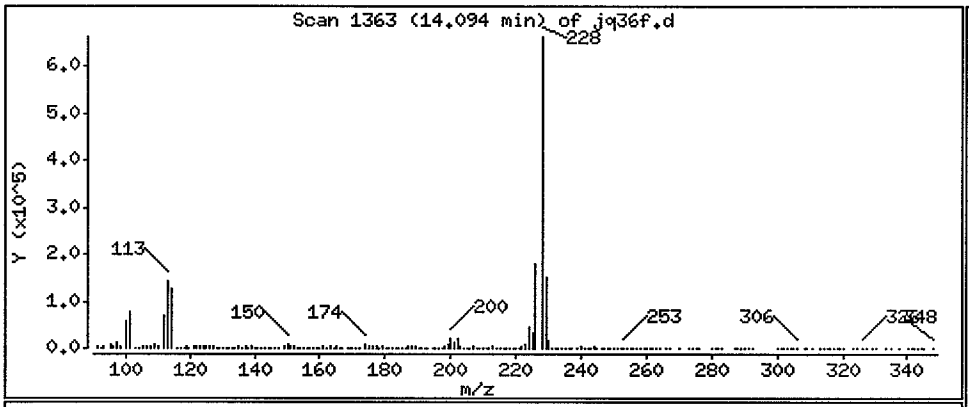
Operator: VTS

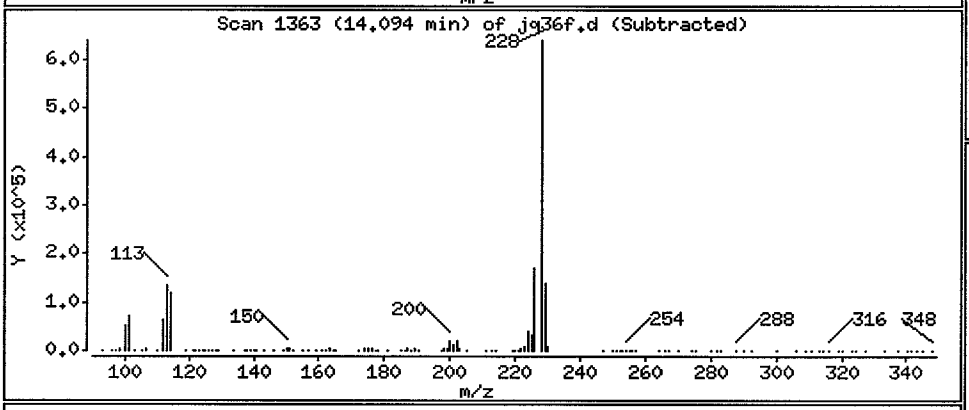
Column phase: ZB-5

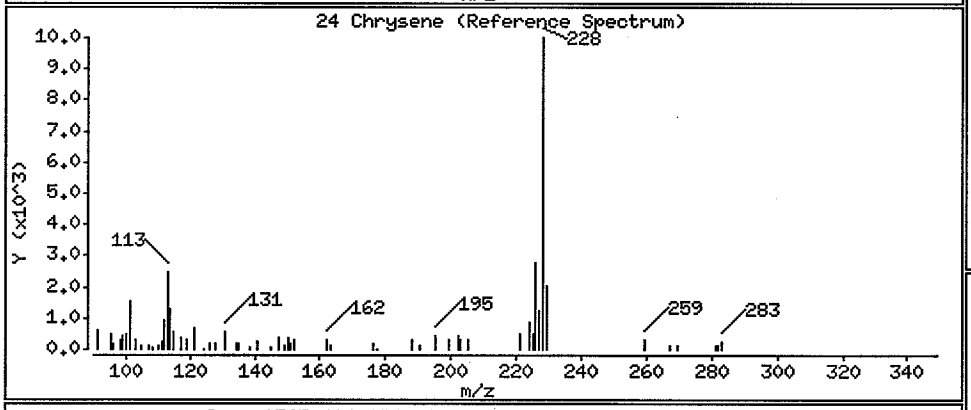
Column diameter: 0.25

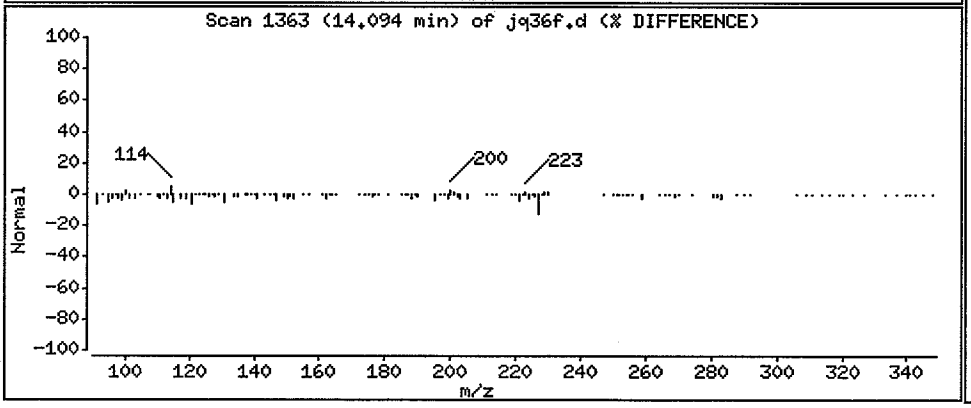
24 Chrysene

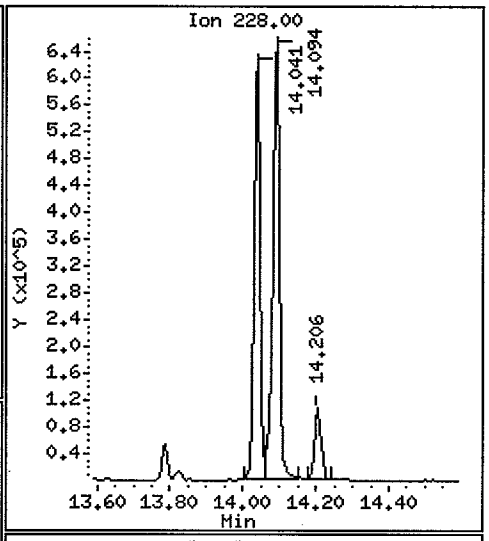
Concentration: 377.9 ug/kg

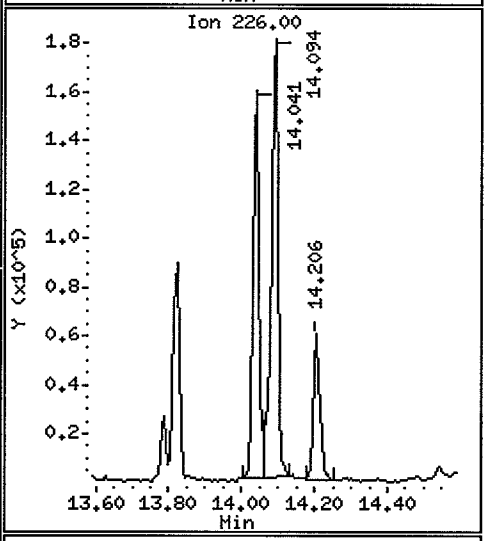


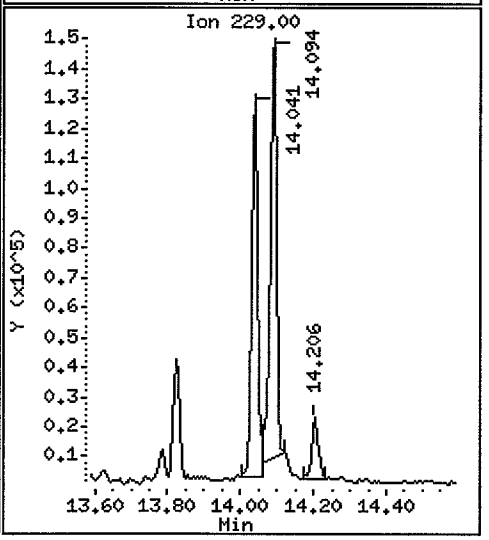












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

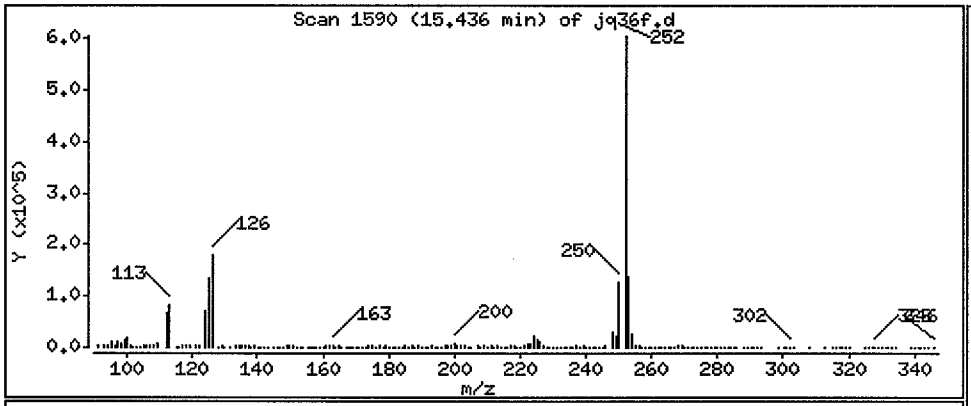
Operator: VTS

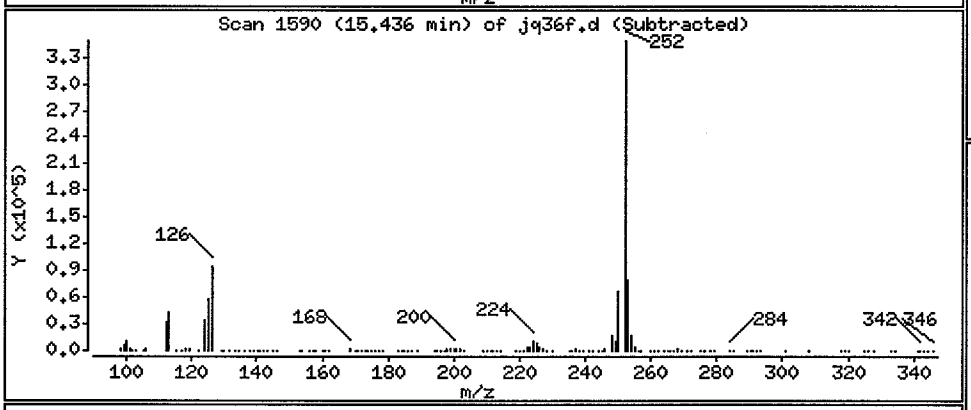
Column phase: ZB-5

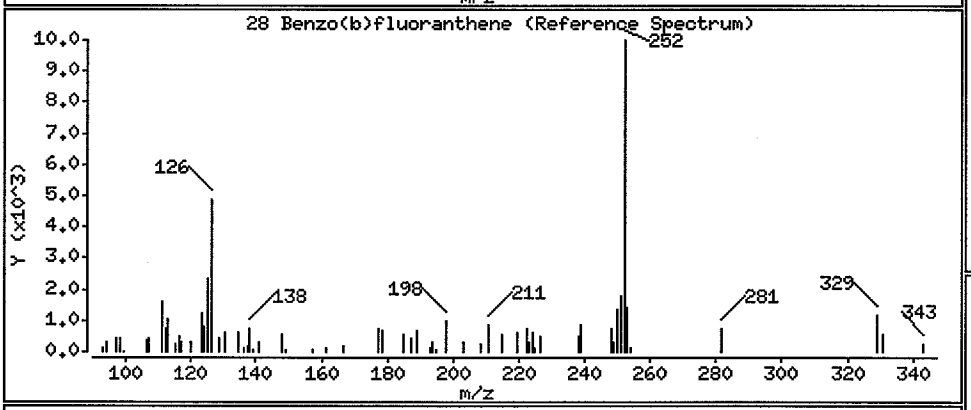
Column diameter: 0.25

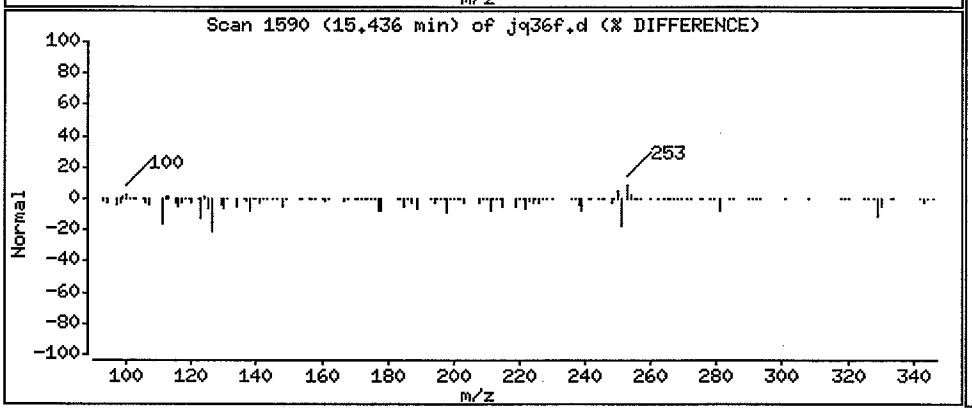
28 Benzo(b)fluoranthene

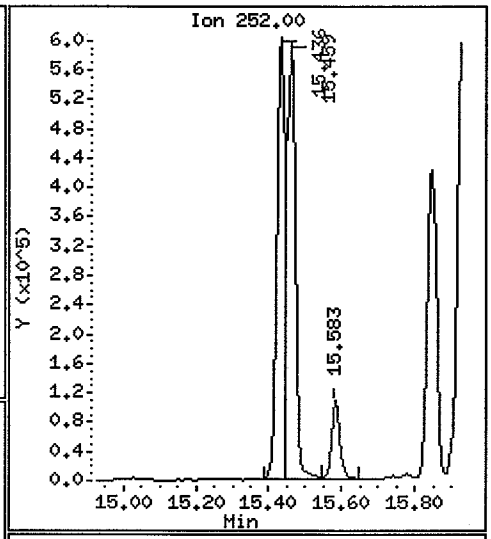
Concentration: 386.3 ug/kg

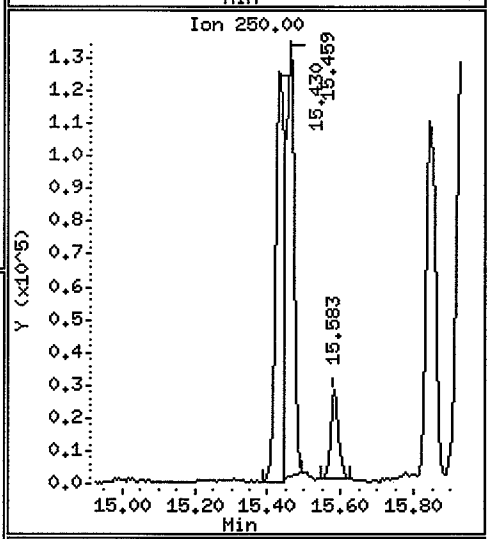


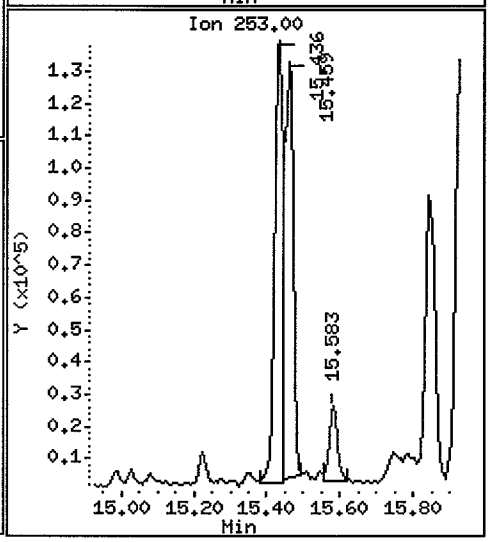












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

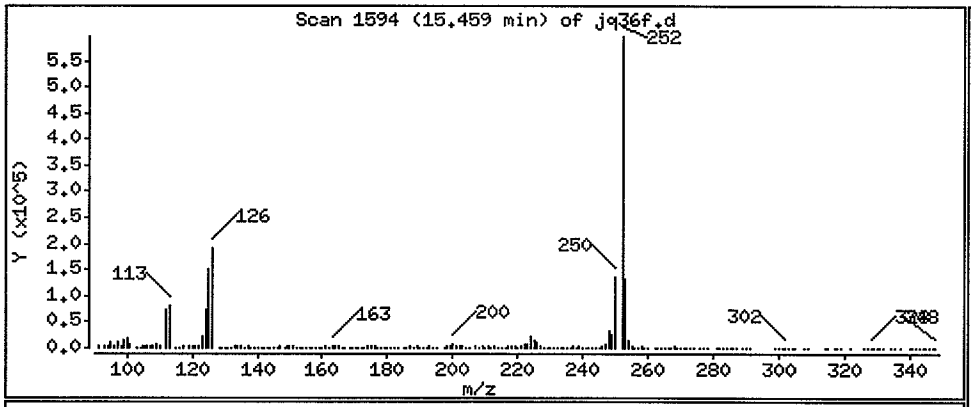
Operator: VTS

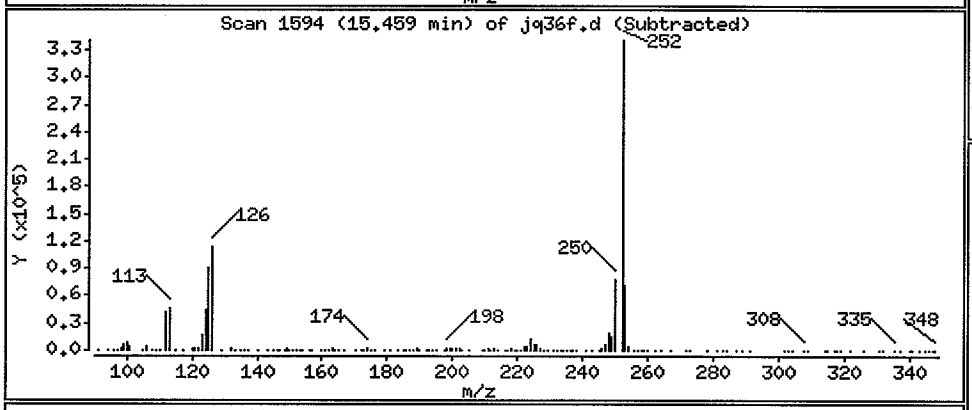
Column phase: ZB-5

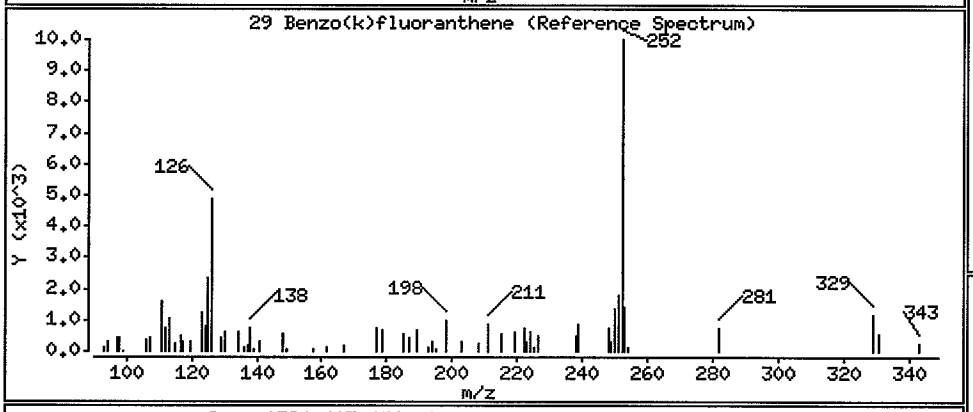
Column diameter: 0.25

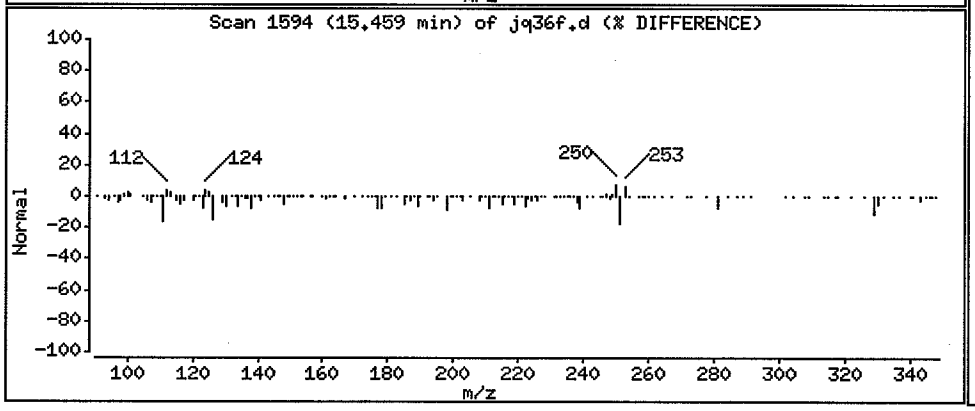
29 Benzo(k)fluoranthene

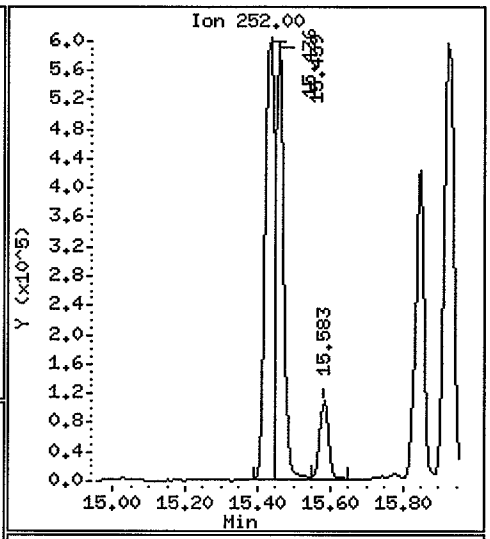
Concentration: 345.6 ug/kg

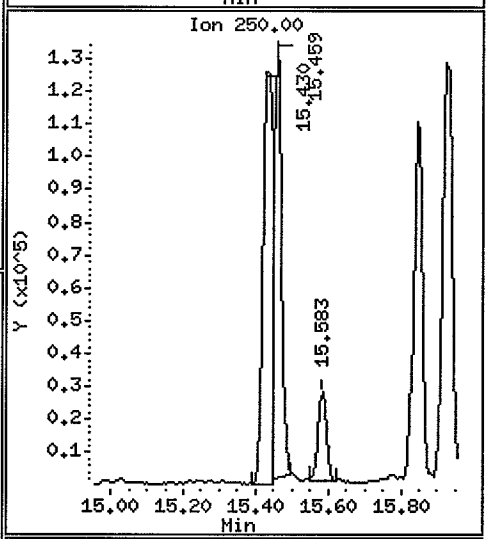


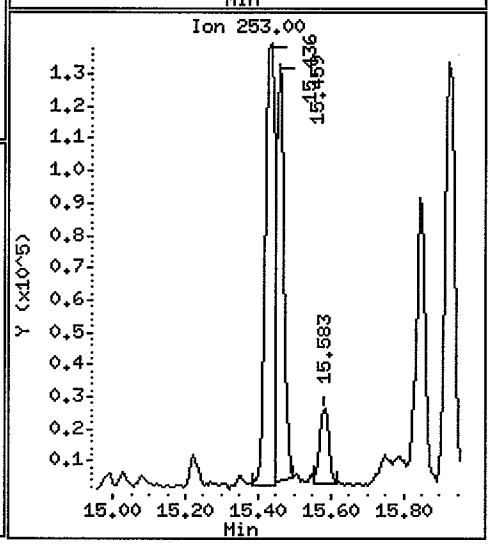












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

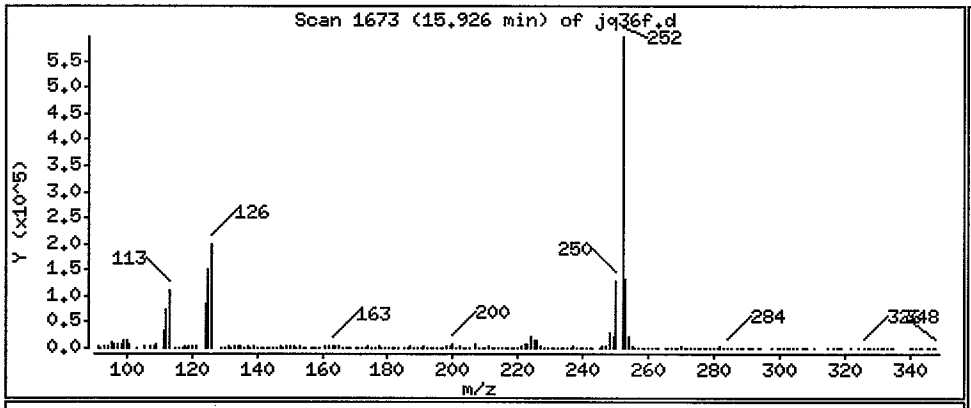
Operator: VTS

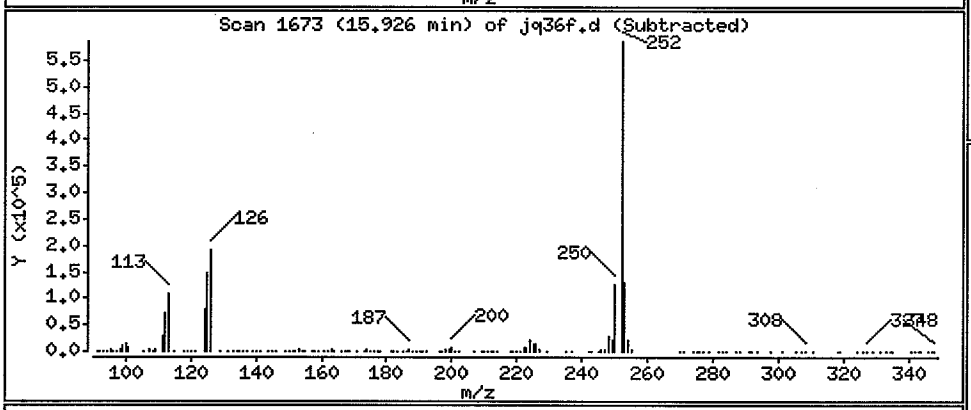
Column phase: ZB-5

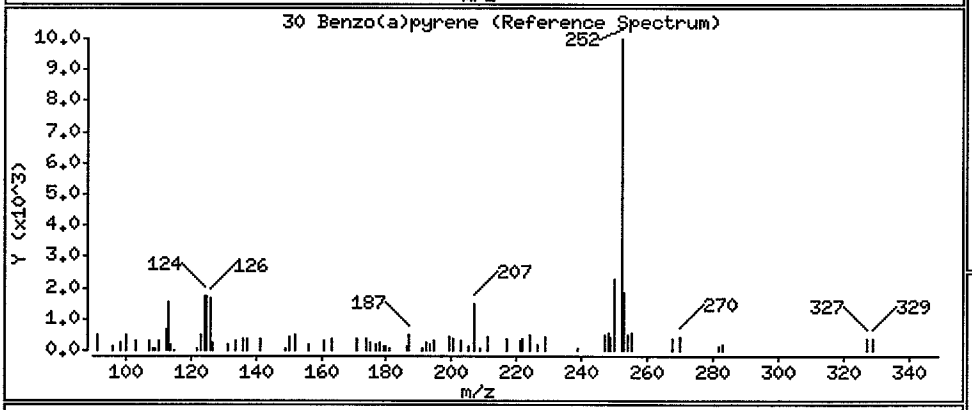
Column diameter: 0.25

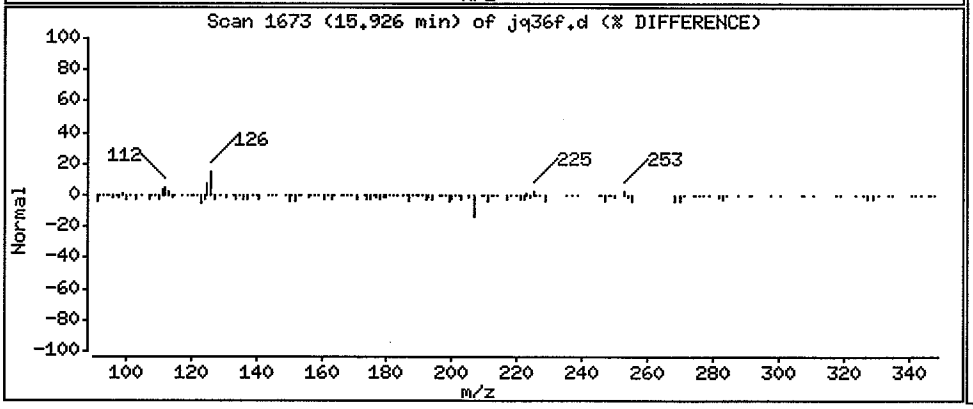
30 Benzo(a)pyrene

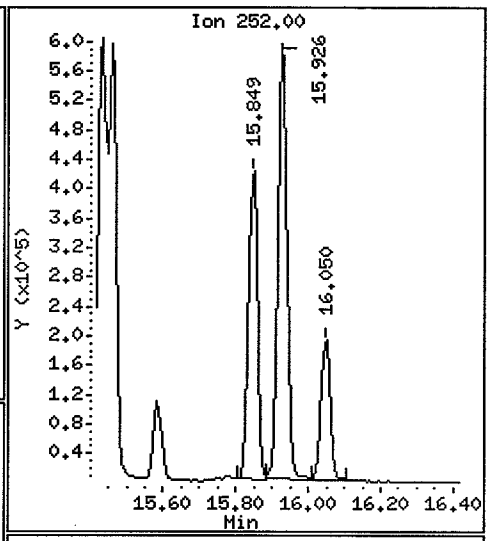
Concentration: 396.1 ug/kg

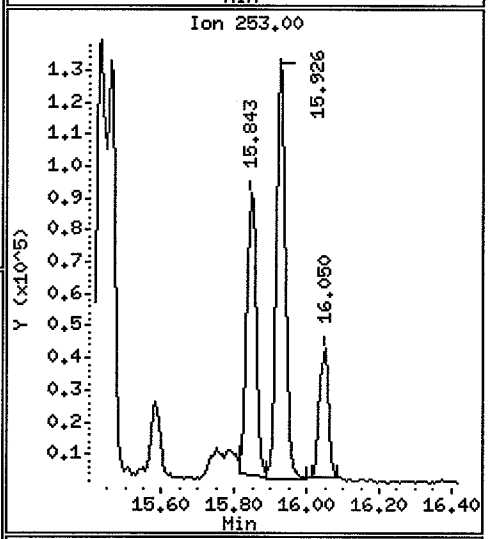


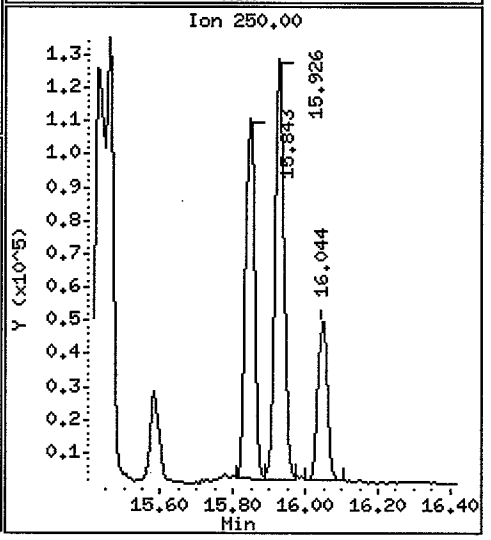












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

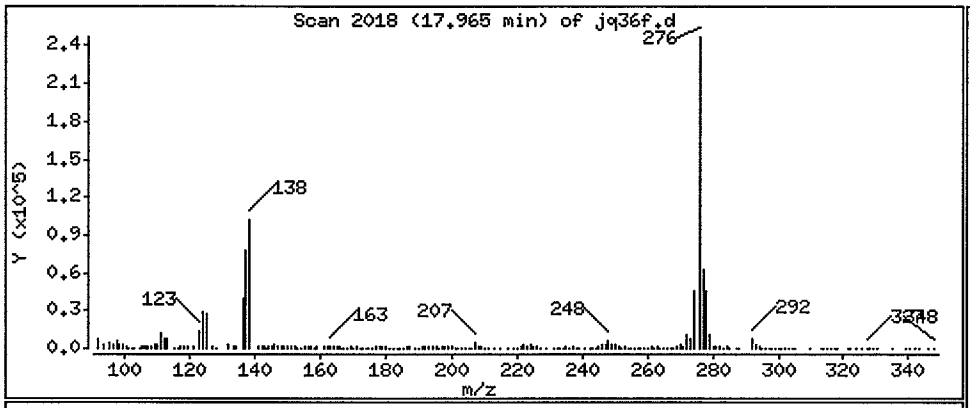
Operator: VTS

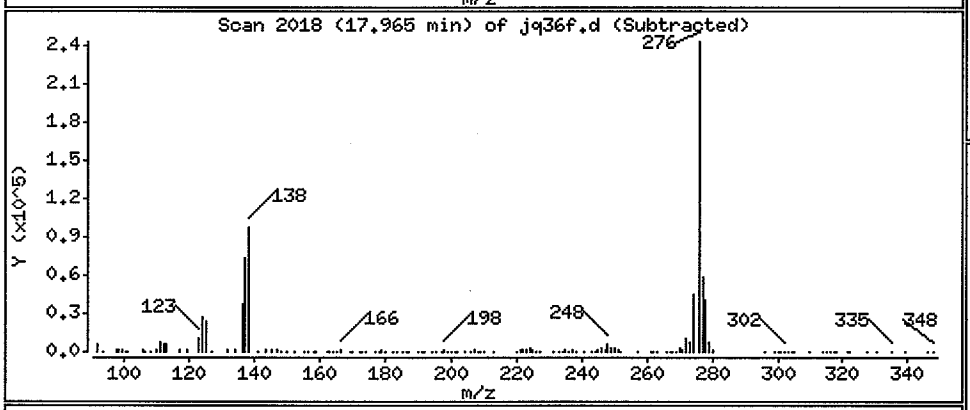
Column phase: ZB-5

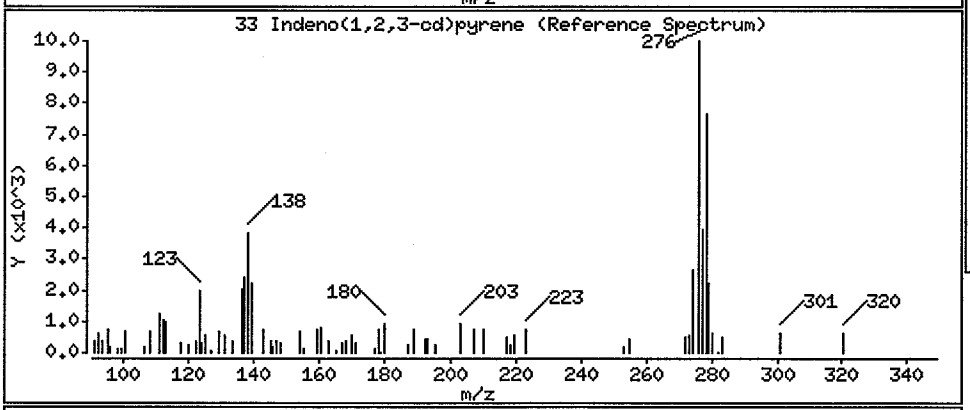
Column diameter: 0.25

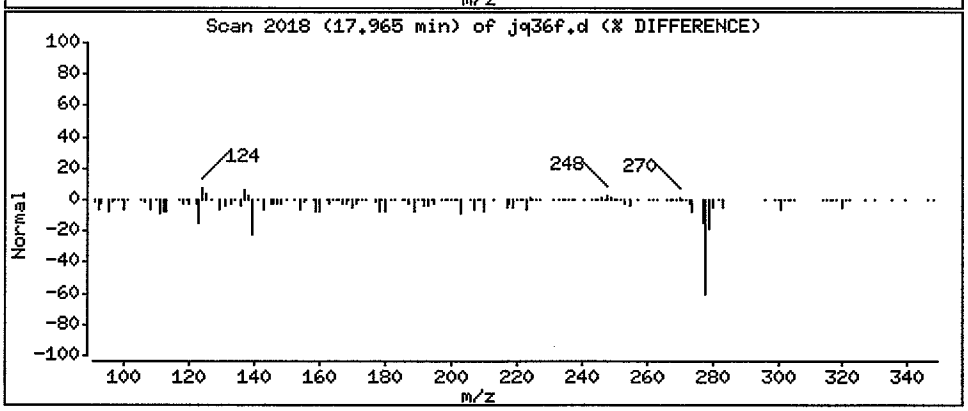
33 Indeno(1,2,3-cd)pyrene

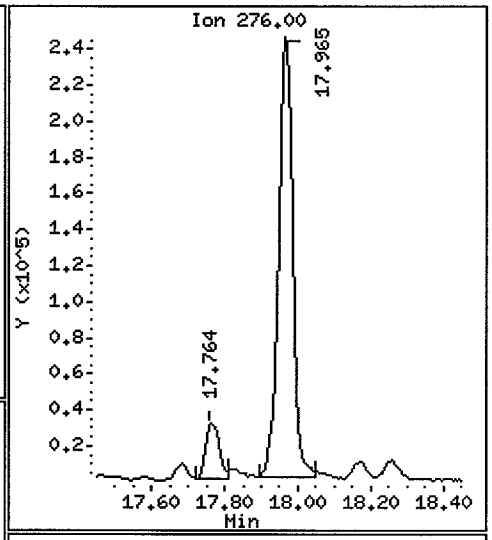
Concentration: 212.8 ug/kg

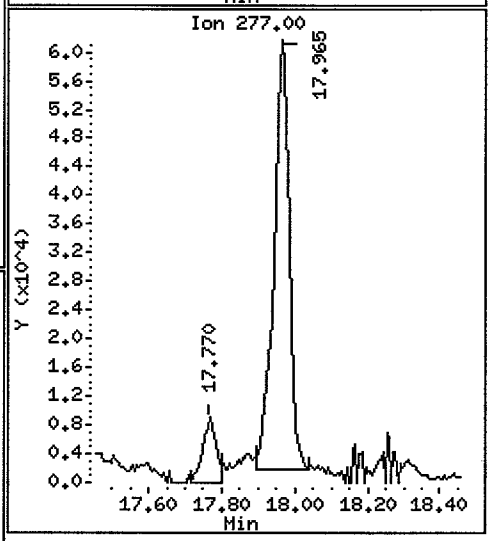












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

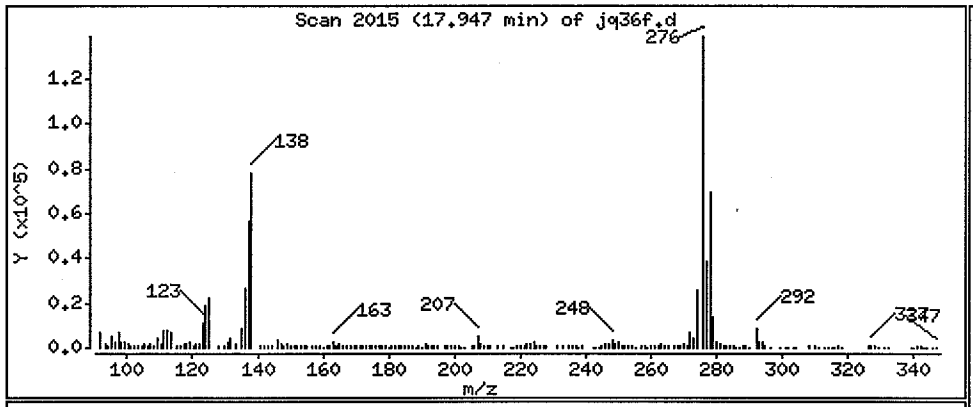
Operator: VTS

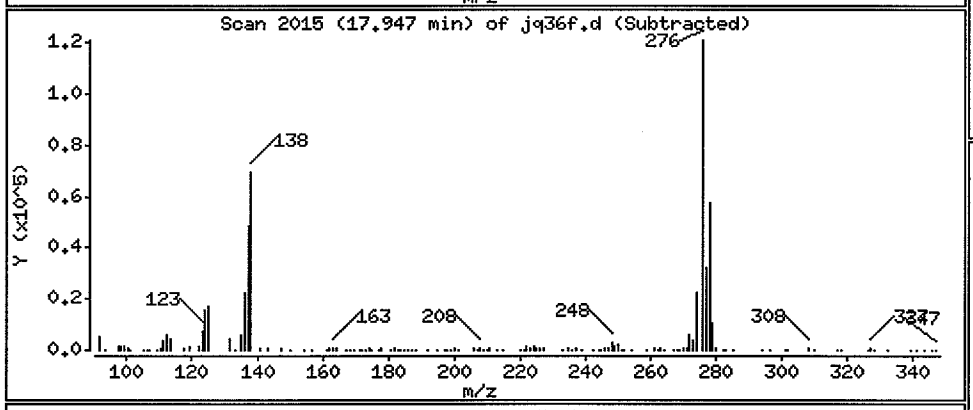
Column phase: ZB-5

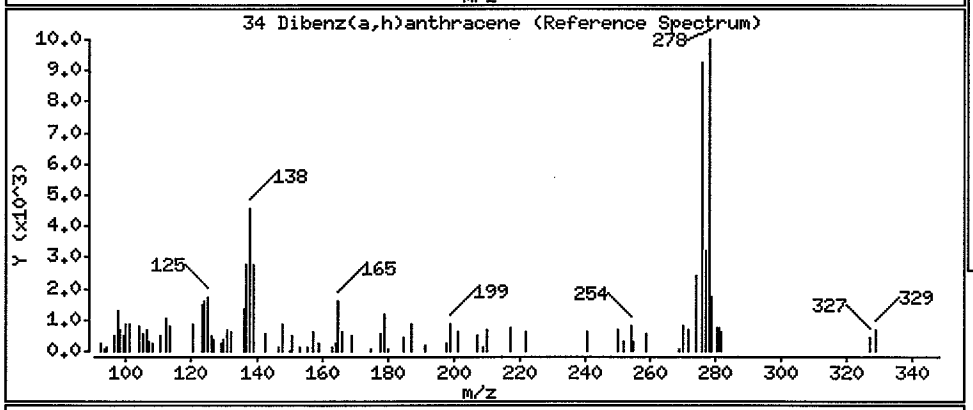
Column diameter: 0.25

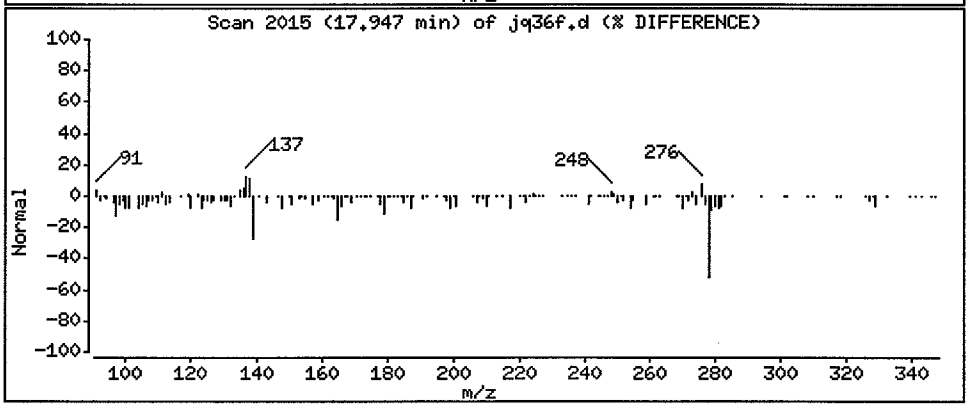
34 Dibenz(a,h)anthracene

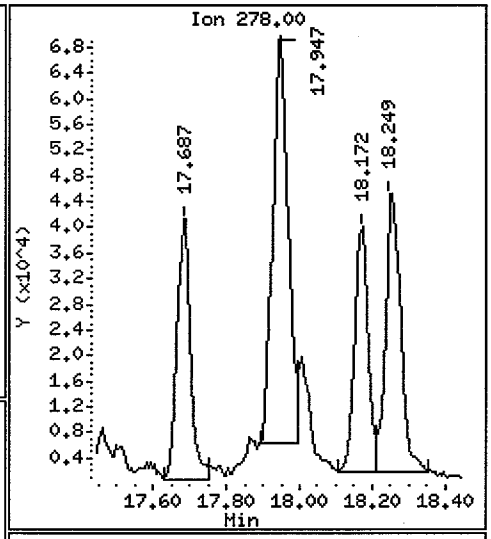
Concentration: 75.33 ug/kg

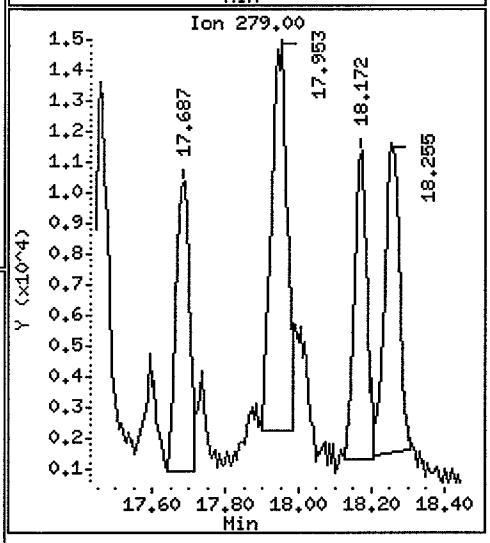












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

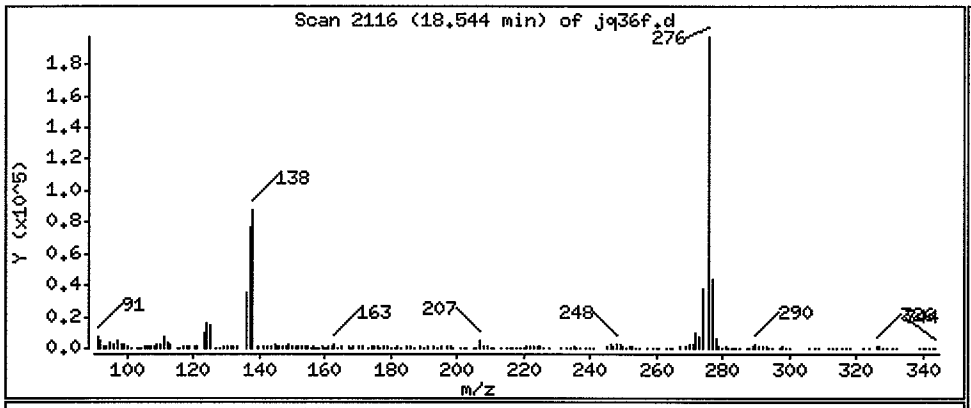
Operator: VTS

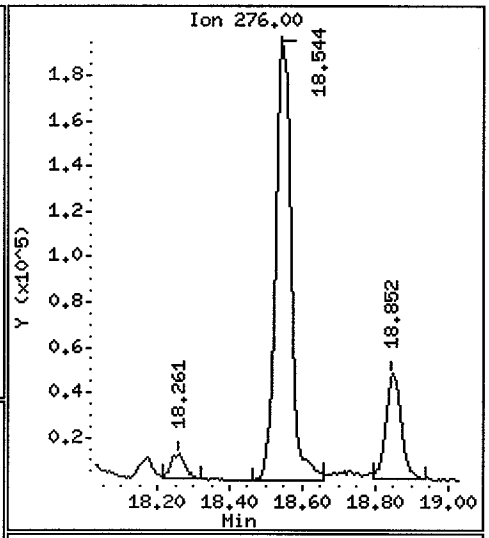
Column phase: ZB-5

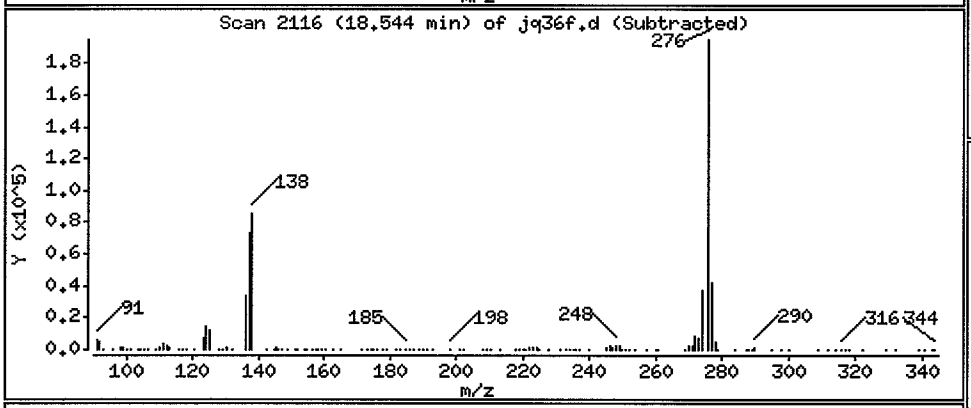
Column diameter: 0.25

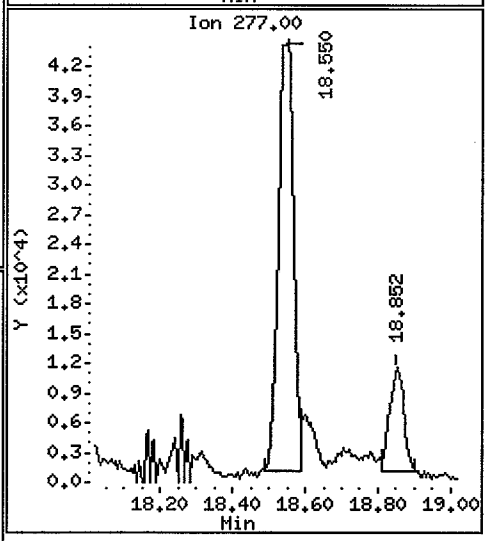
35 Benzo(g,h,i)perylene

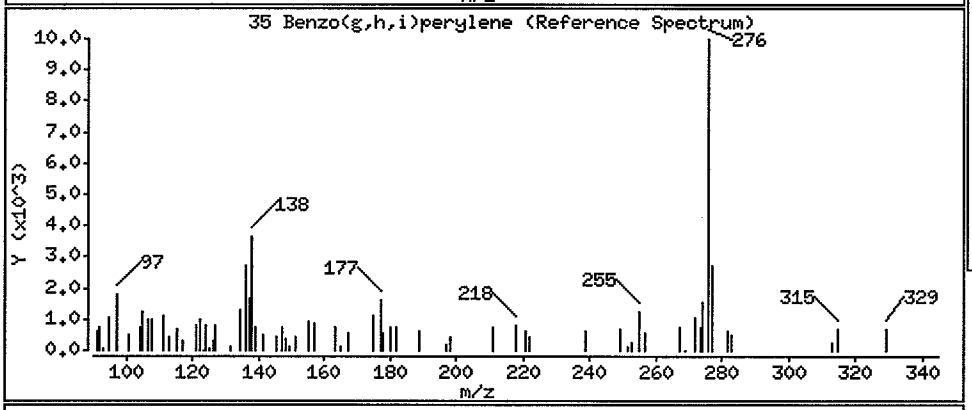
Concentration: 228.9 ug/kg

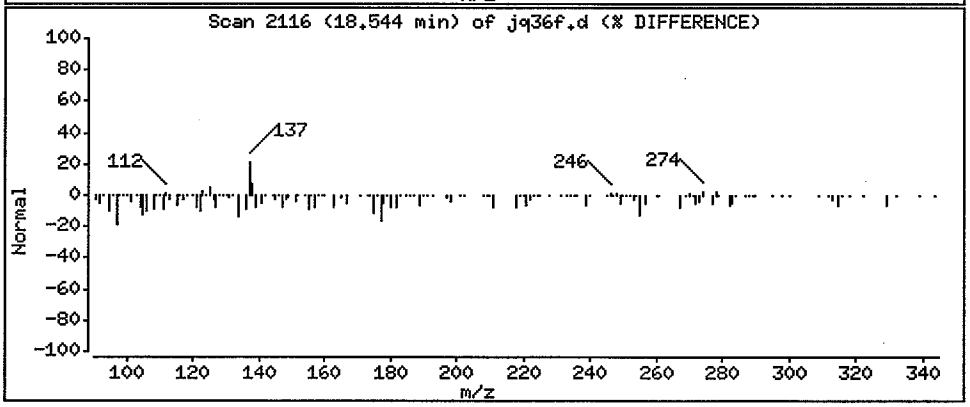












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

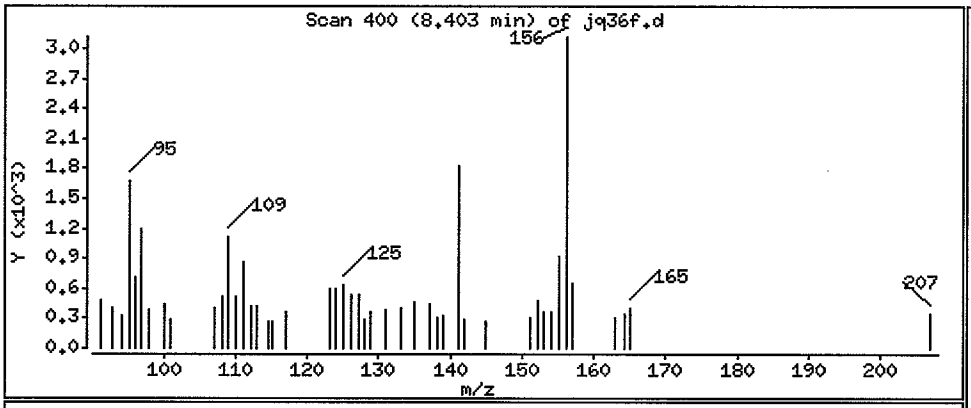
Operator: VTS

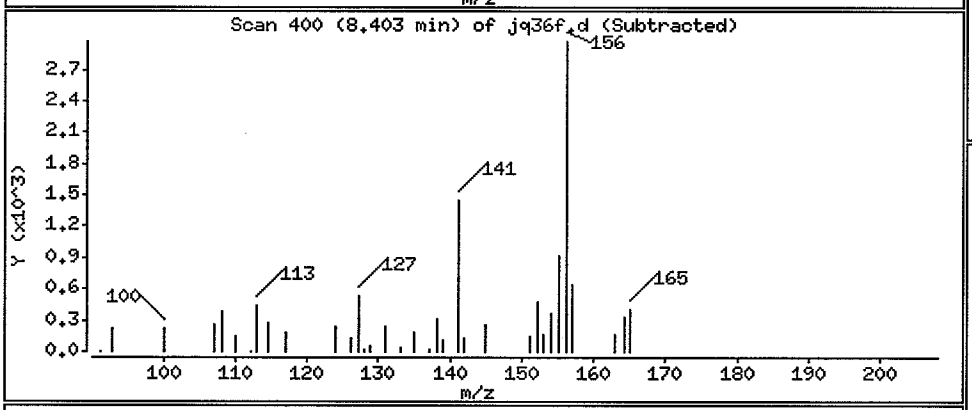
Column phase: ZB-5

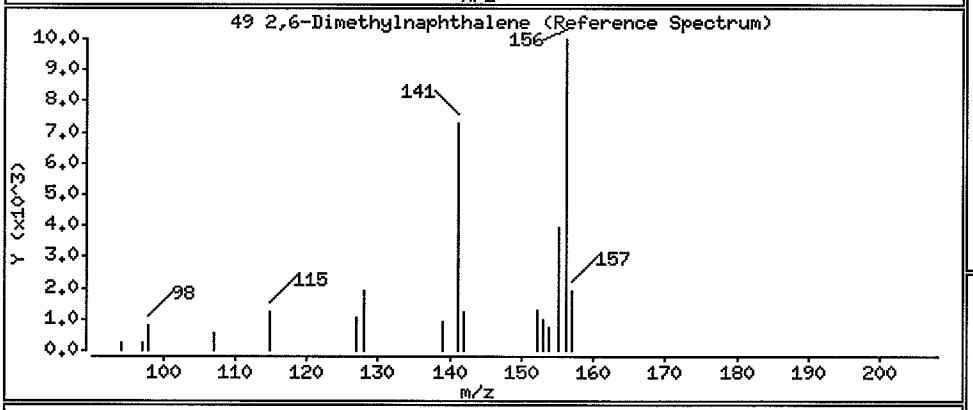
Column diameter: 0.25

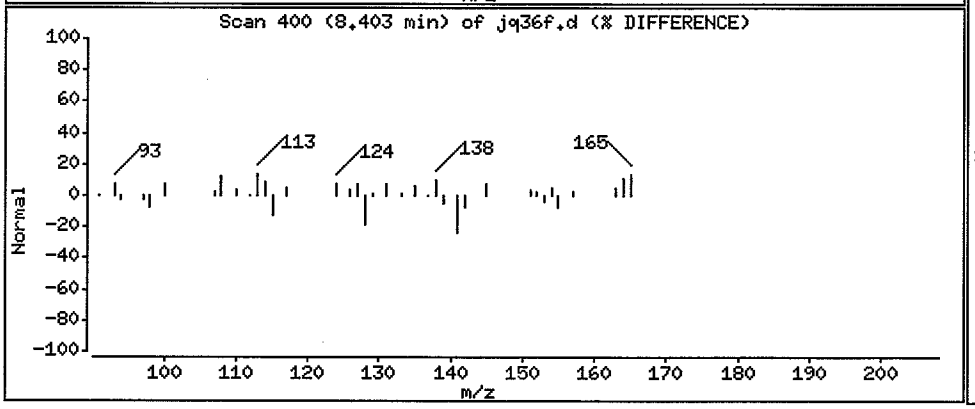
49 2,6-Dimethylnaphthalene

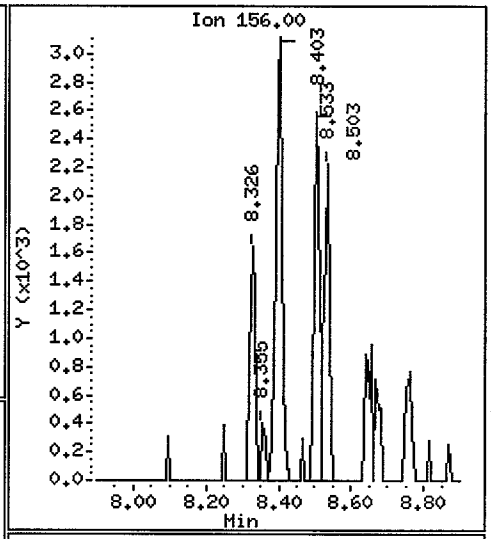
Concentration: 2.617 ug/kg

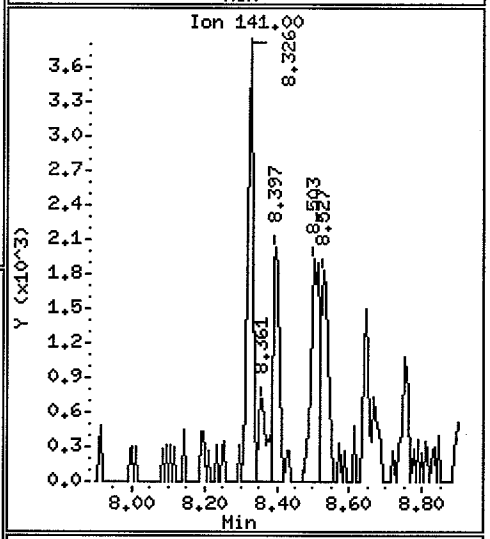


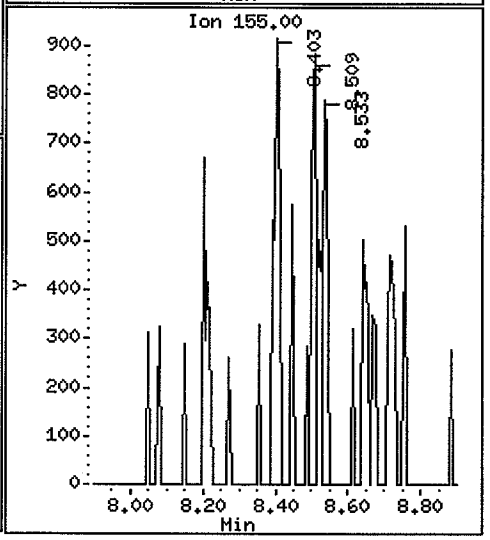












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

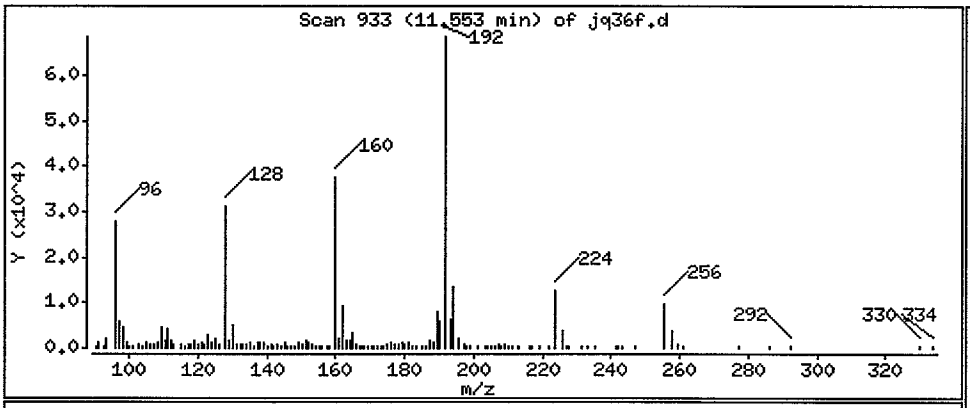
Operator: VTS

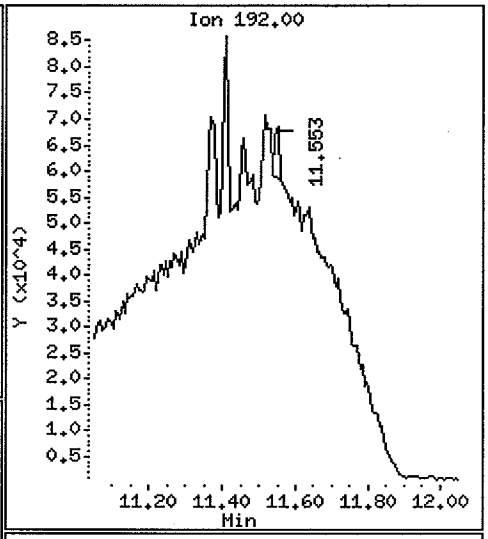
Column phase: ZB-5

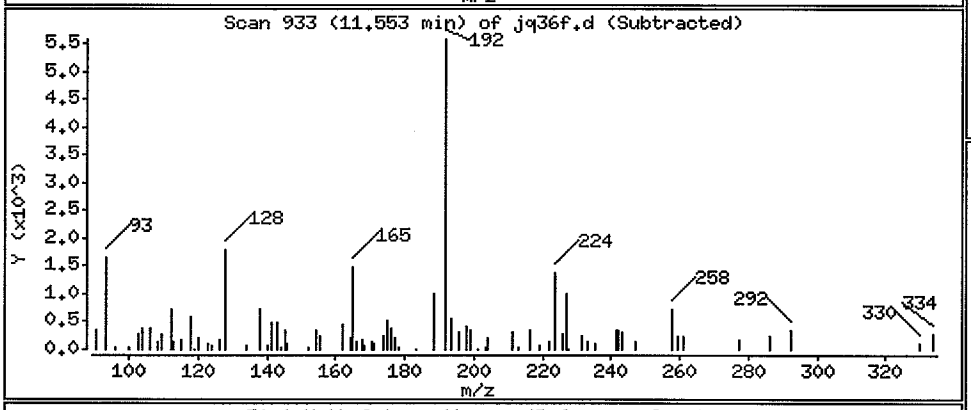
Column diameter: 0.25

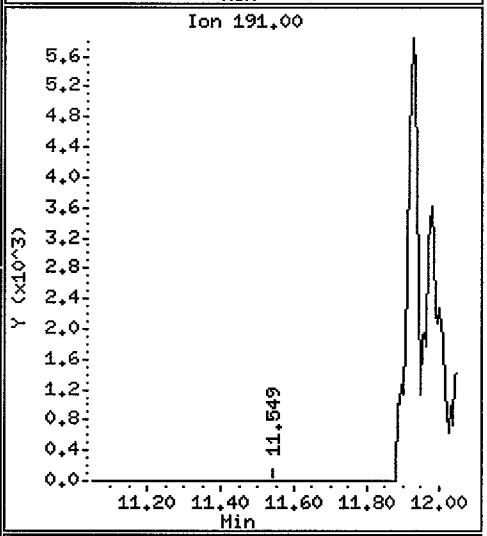
51 1-Methylphenanthrene

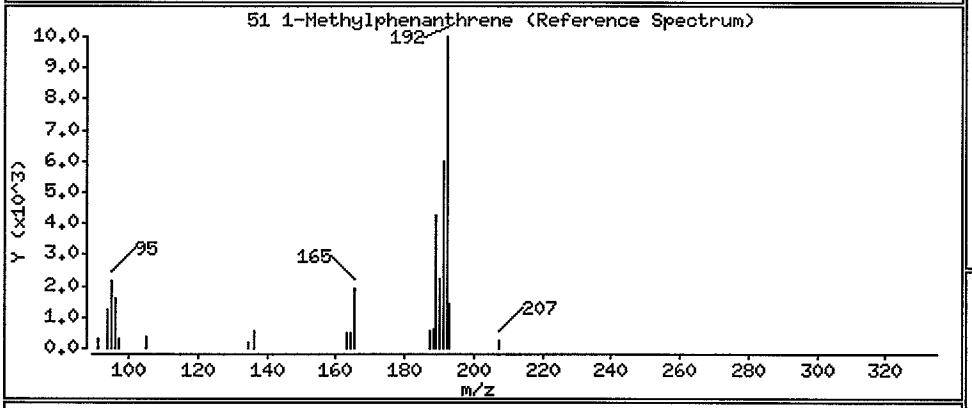
Concentration: 5.385 ug/kg

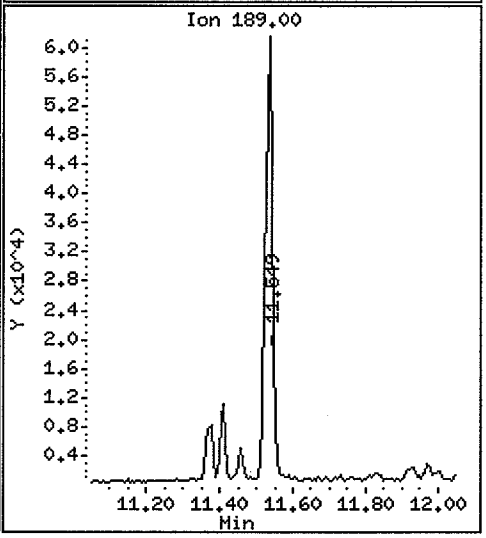


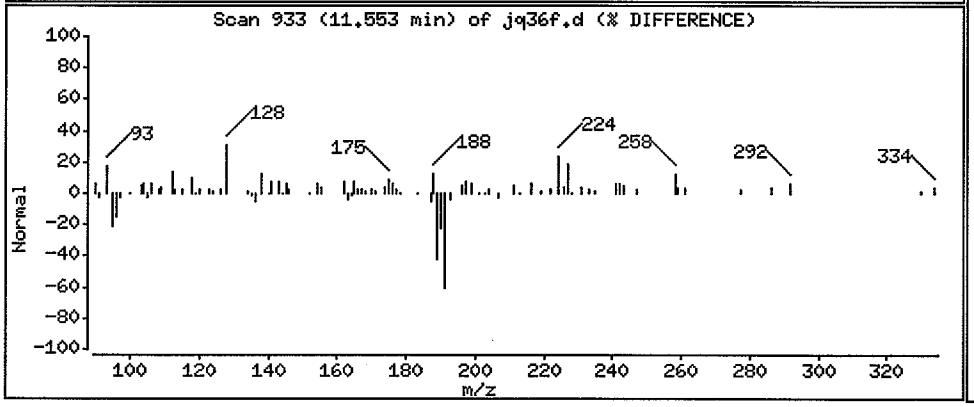












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

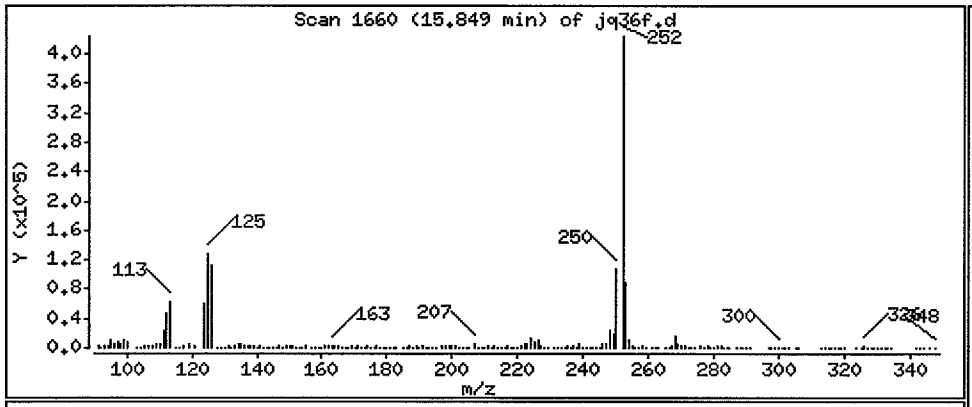
Operator: VTS

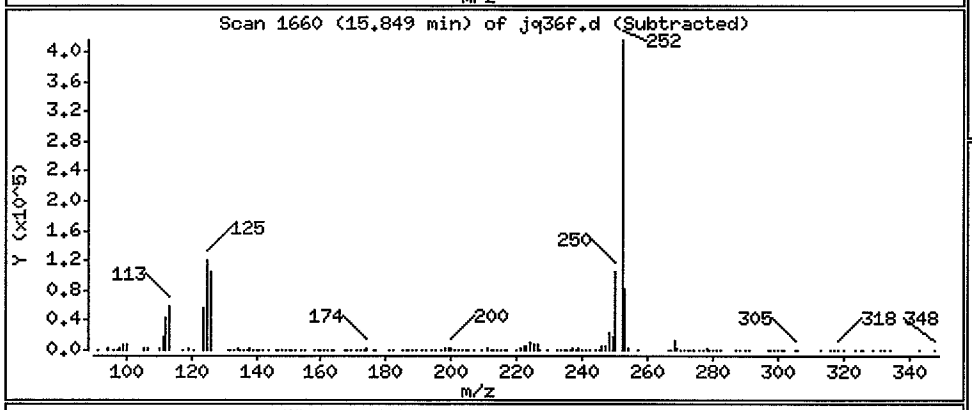
Column phase: ZB-5

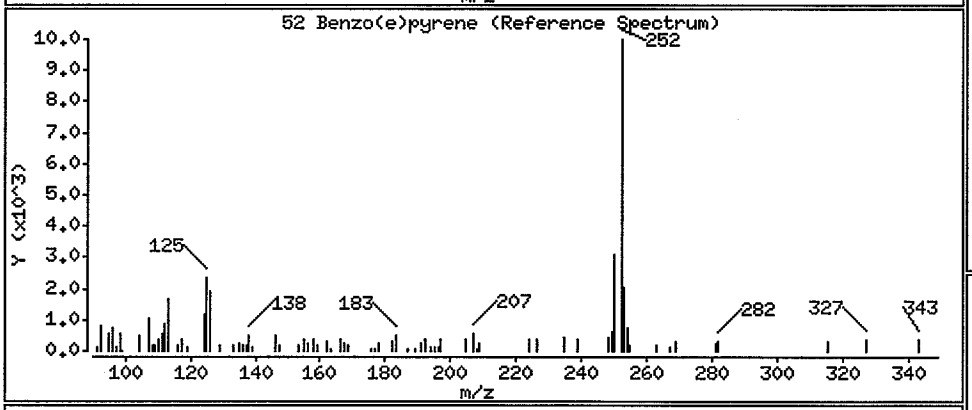
Column diameter: 0.25

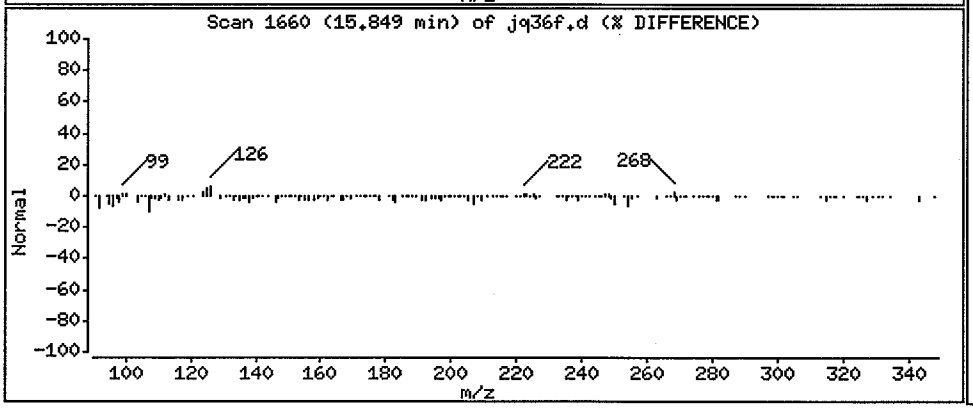
52 Benzo(e)pyrene

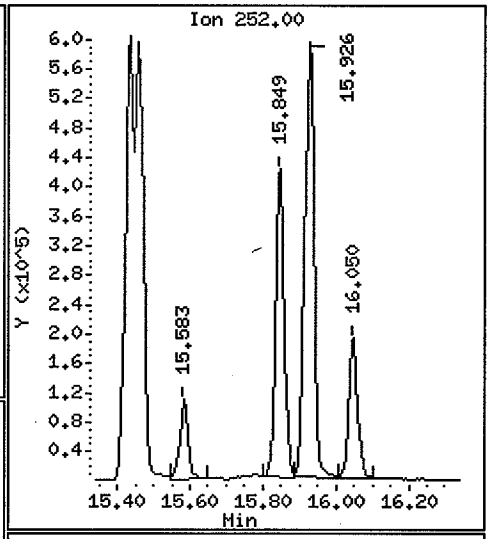
Concentration: 244.3 ug/kg

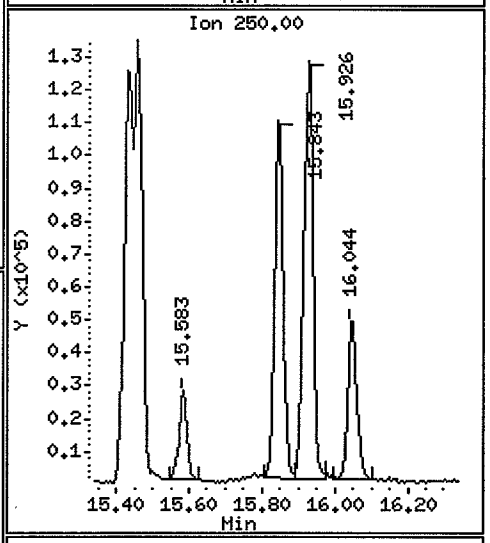


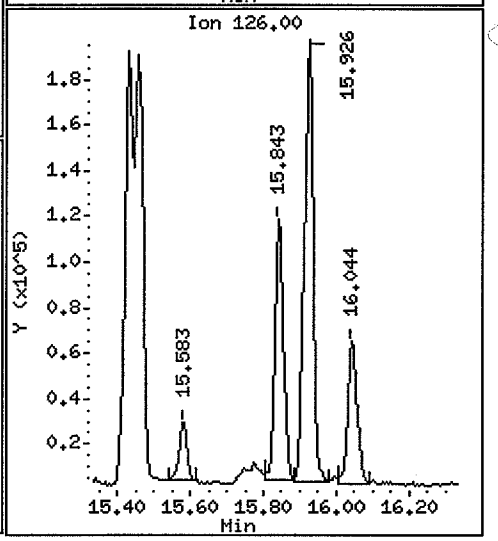












Data File: /chem3/nt1.i/20060810.b/jq36f.d

Date : 10-AUG-2006 17:31

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F

Volume Injected (uL): 1.0

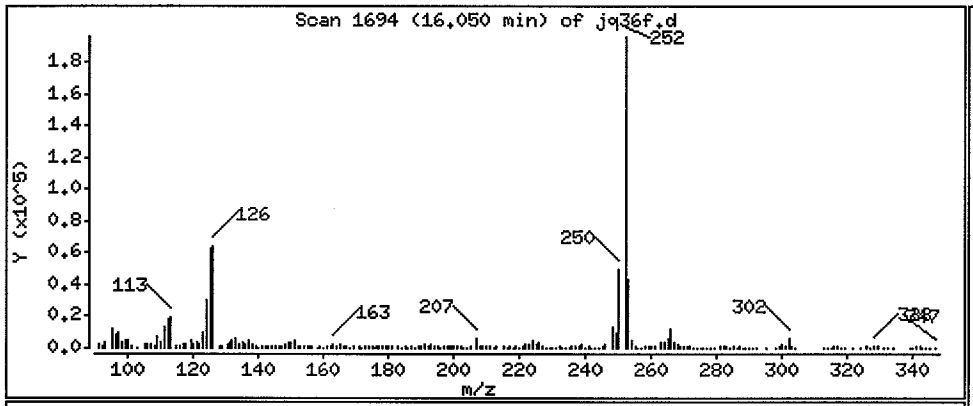
Operator: VTS

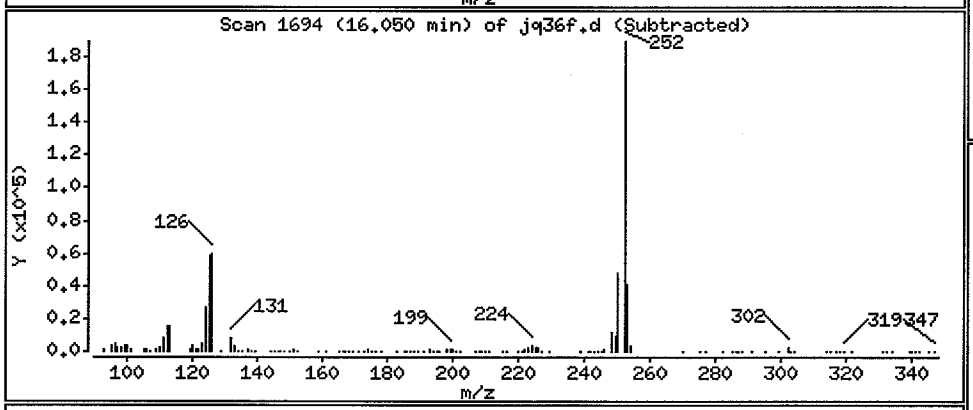
Column phase: ZB-5

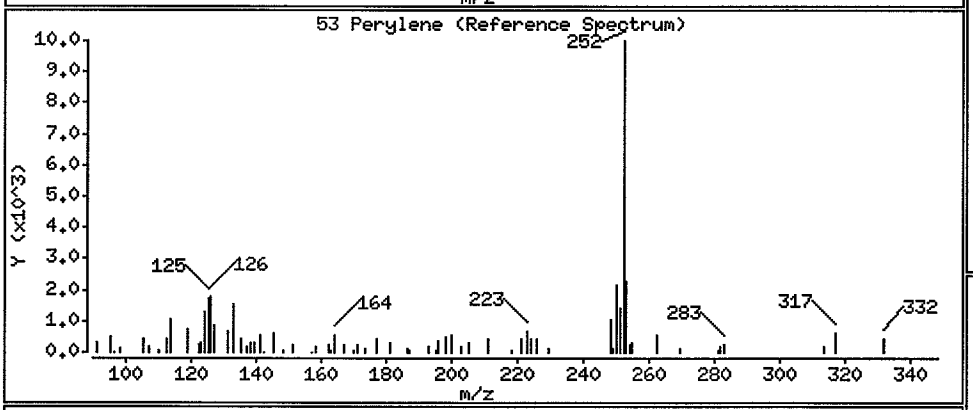
Column diameter: 0.25

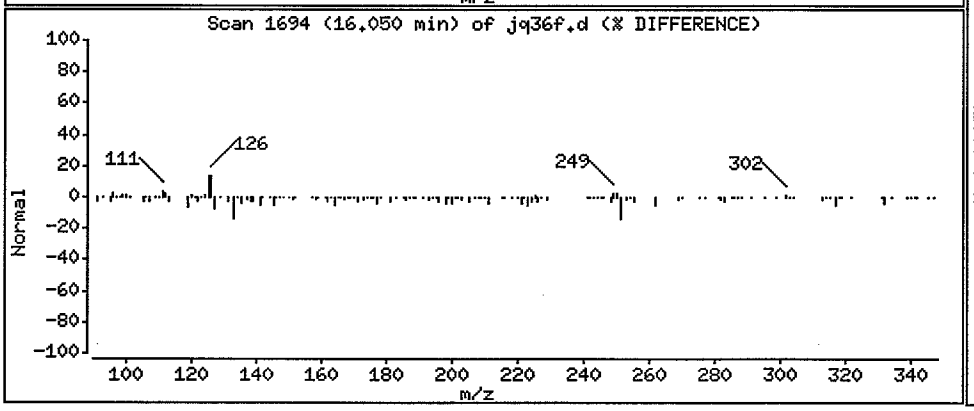
53 Perylene

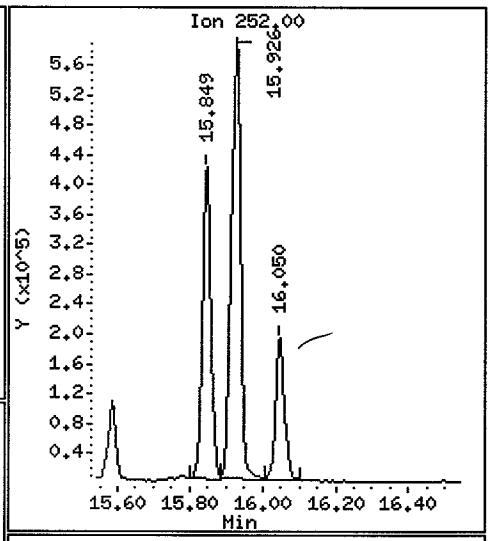
Concentration: 121.6 ug/kg

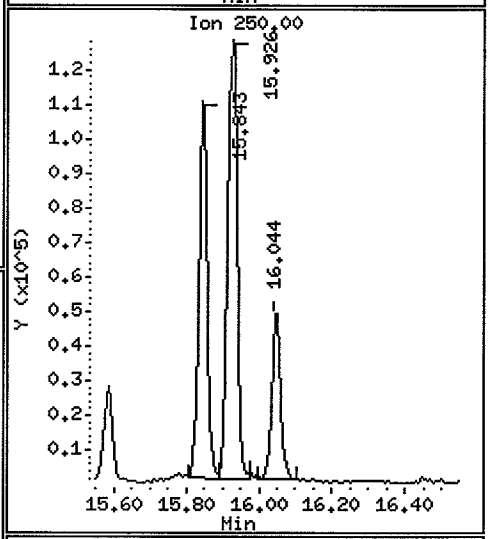


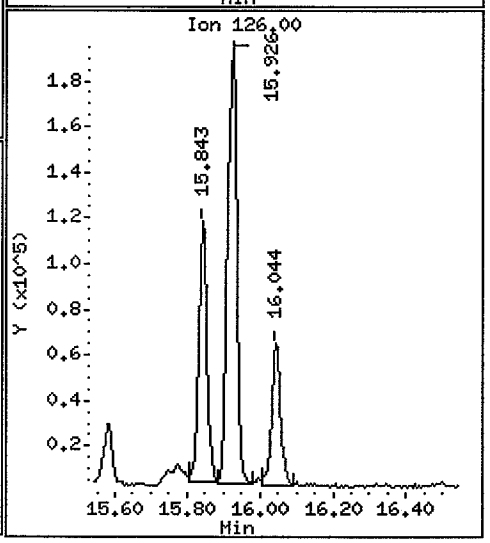












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-04-B**
Page 1 of 1 **DILUTION**

Lab Sample ID: JQ36F
LIMS ID: 06-12977
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 13:07
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 22.6%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	50	< 50 U
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**	**45 J**
86-73-7	Fluorene	50	< 50 U
85-01-8	**Phenanthrene**	**50**	**220**
120-12-7	**Anthracene**	**50**	**54**
206-44-0	**Fluoranthene**	**50**	**500**
129-00-0	**Pyrene**	**50**	**490**
56-55-3	**Benzo(a)anthracene**	**50**	**310**
218-01-9	**Chrysene**	**50**	**380**
205-99-2	**Benzo(b)fluoranthene**	**50**	**430**
207-08-9	**Benzo(k)fluoranthene**	**50**	**310**
50-32-8	**Benzo(a)pyrene**	**50**	**420**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**50**	**270**
53-70-3	**Dibenz(a,h)anthracene**	**50**	**89**
191-24-2	**Benzo(g,h,i)perylene**	**50**	**330**
198-55-0	**Perylene**	**50**	**130**
92-52-4	Biphenyl	50	< 50 U
581-42-0	2,6-Dimethylnaphthalene	50	< 50 U
832-69-9	1-Methylphenanthrene	50	< 50 U
192-97-2	**Benzo(e)pyrene**	**50**	**250**
2245-38-7	2,3,5-Trimethylnaphthalene	50	< 50 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	66.7%
d14-Dibenzo(a,h)anthracen	82.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq36f.d
Lab Smp Id: JQ36F Client Smp ID: T4-S3-04-B
Inj Date : 09-AUG-2006 13:07
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36F,10
Misc Info : 06-12977
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 09:48 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 5
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	13.00000	Weight of sample extracted (g)
M	22.60000	% 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	6.878	6.877	(1.000)	290530	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	7.634	7.634	(1.110)	14948	0.19976	99.26
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.934	8.934	(1.000)	142764	2.00000	
	9 Acenaphthene	153	8.976	8.975	(1.005)	6813	0.09719	48.30 J
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	10.749	10.748	(1.000)	211489	2.00000	
	16 Phenanthrene	178	10.778	10.778	(1.003)	48300	0.44494	221.1
	17 Anthracene	178	10.831	10.837	(1.008)	11400	0.10509	52.22
	19 Fluoranthene	202	12.268	12.273	(1.141)	113401	1.02419	508.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
20	Pyrene	202	12.557	12.557	(0.893)	115248	0.99278	493.3
22	Benzo(a)anthracene	228	14.041	14.040	(0.999)	68229	0.62673	311.4
* 23	Chrysene-d12	240	14.058	14.058	(1.000)	180784	2.00000	
24	Chrysene	228	14.094	14.093	(1.003)	76603	0.76288	379.1
28	Benzo(b)fluoranthene	252	15.429	15.429	(0.964)	109971	0.86349	429.1
29	Benzo(k)fluoranthene	252	15.459	15.459	(0.966)	84683	0.62370	309.9
30	Benzo(a)pyrene	252	15.920	15.926	(0.994)	104895	0.84527	420.0
* 31	Perylene-d12	264	16.009	16.008	(1.000)	225659	2.00000	
33	Indeno(1,2,3-cd)pyrene	276	17.959	17.959	(1.122)	78462	0.54980	273.2
$ 32	Dibenz(a,h)anthrancene-d14	292	17.882	17.888	(1.117)	21256	0.24613	122.3
34	Dibenz(a,h)anthracene	278	17.947	17.959	(1.121)	20830	0.17867	88.78
35	Benzo(g,h,i)perylene	276	18.544	18.544	(1.158)	77966	0.65722	326.6
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	Compound Not Detected.					
52	Benzo(e)pyrene	252	15.843	15.843	(0.990)	70407	0.51255	254.7
53	Perylene	252	16.044	16.050	(1.002)	34728	0.26926	133.8

VTS
8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36f.d
Lab Smp Id: JQ36F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12977

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-S3-04-B
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	290530	21.01
8 Acenaphthene-d10	117778	58889	235556	142764	21.21
15 Phenanthrene-d10	165702	82851	331404	211489	27.63
23 Chrysene-d12	120342	60171	240684	180784	50.23
31 Perylene-d12	134879	67440	269758	225659	67.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	0.00
8 Acenaphthene-d10	8.93	8.43	9.43	8.93	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.00
31 Perylene-d12	16.01	15.51	16.51	16.01	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

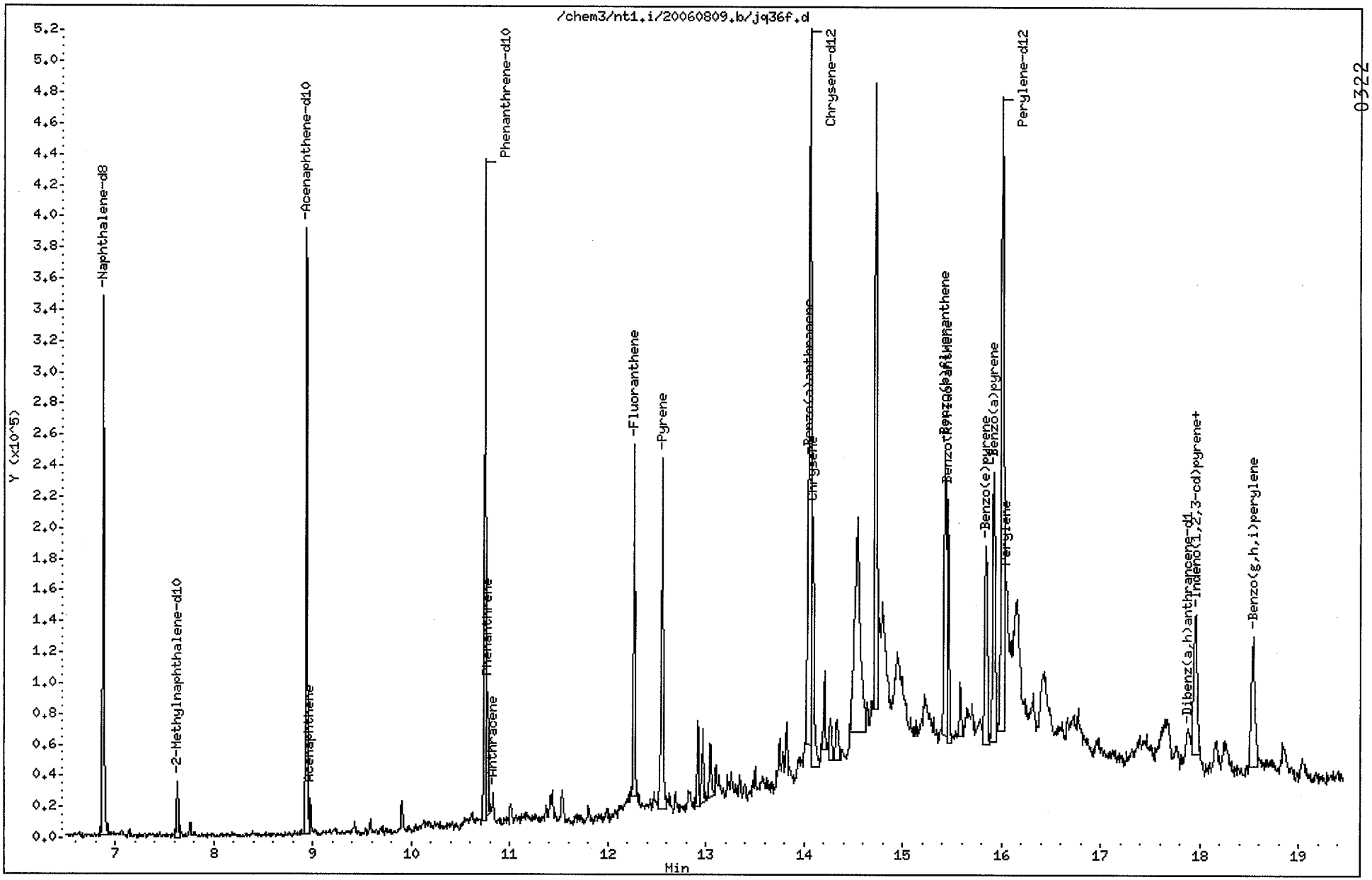
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36F
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12977

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-04-B
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	149.1	99.26	66.59	32-97
$ 32 Dibenz(a,h)anthran	149.1	122.3	82.04	21-105

Data File: /chem3/nt1.i/20060809.b/jq36f.d
Date : 09-AUG-2006 13:07
Client ID: T4-S3-04-B
Sample Info: JQ36F,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

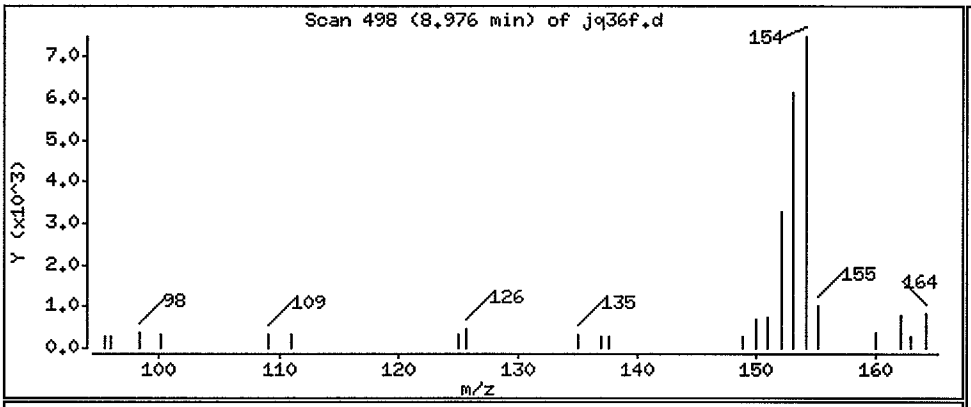
Operator: VTS

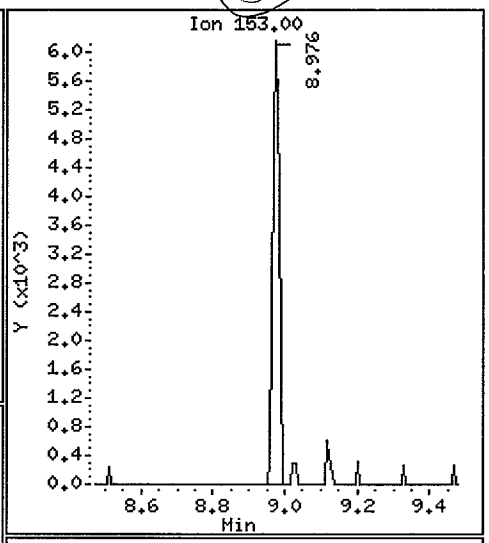
Column phase: ZB-5

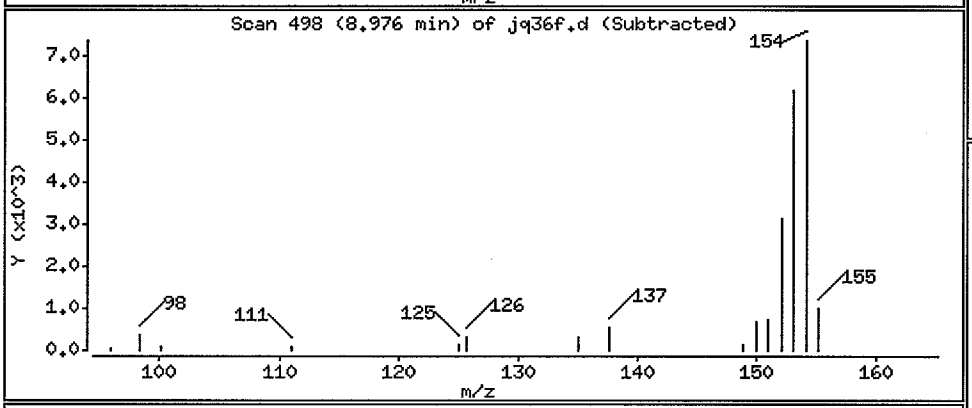
Column diameter: 0.25

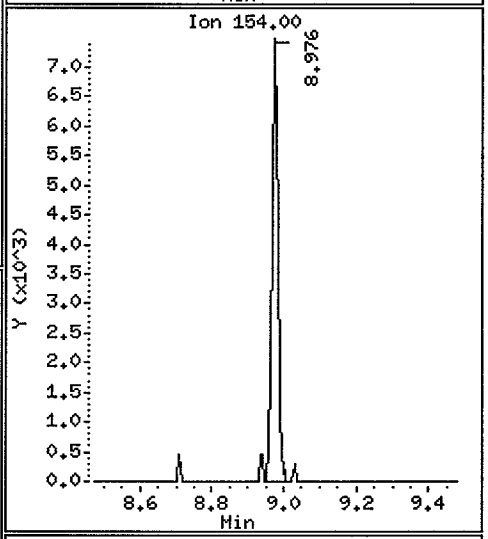
9 Acenaphthene

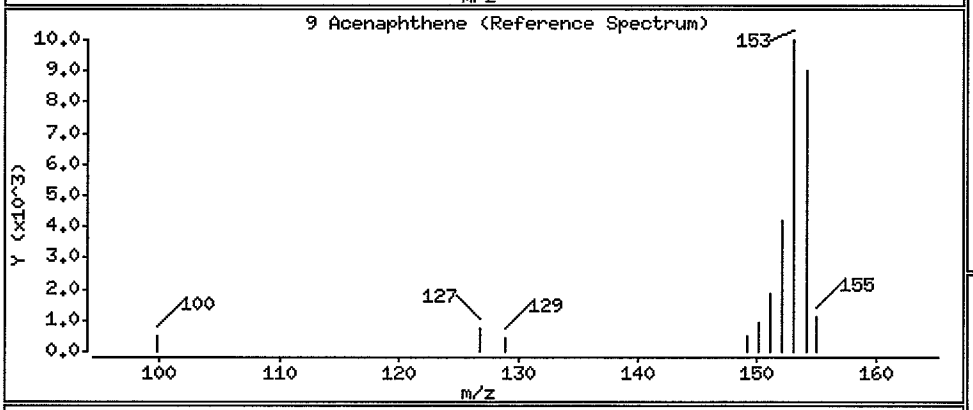
Concentration: 48.30 ug/kg

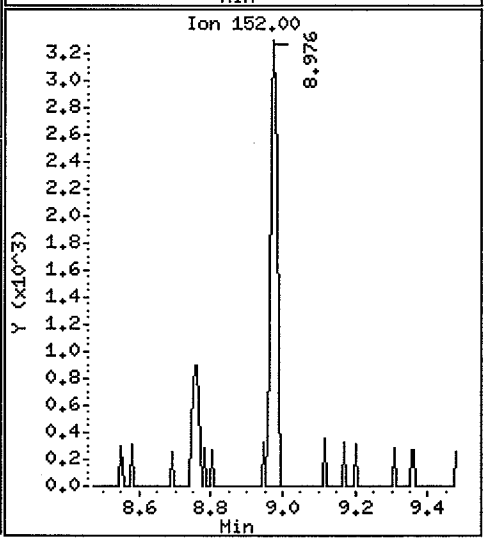


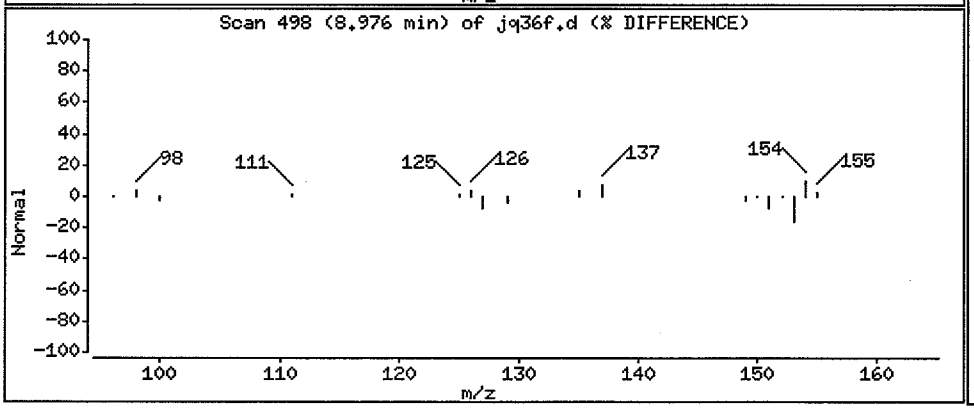












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

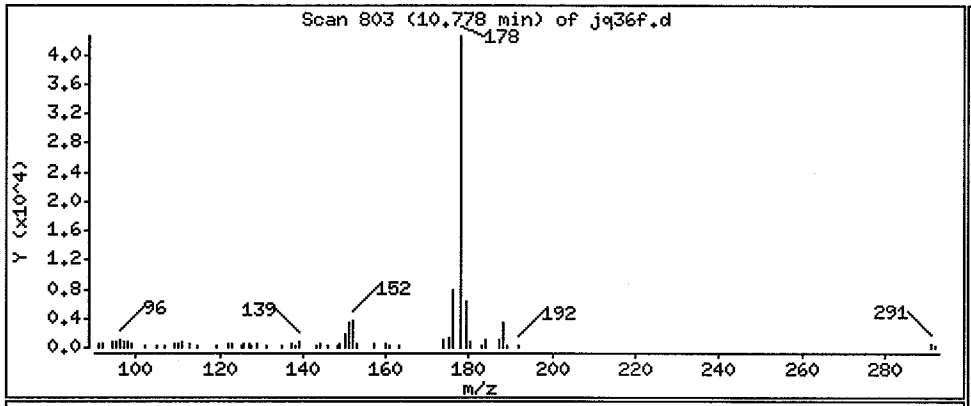
Operator: VTS

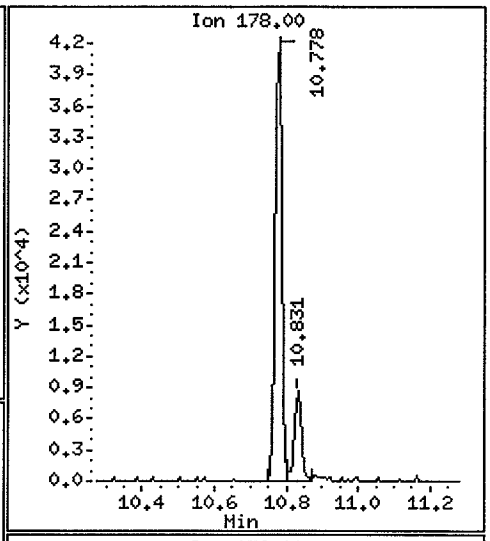
Column phase: ZB-5

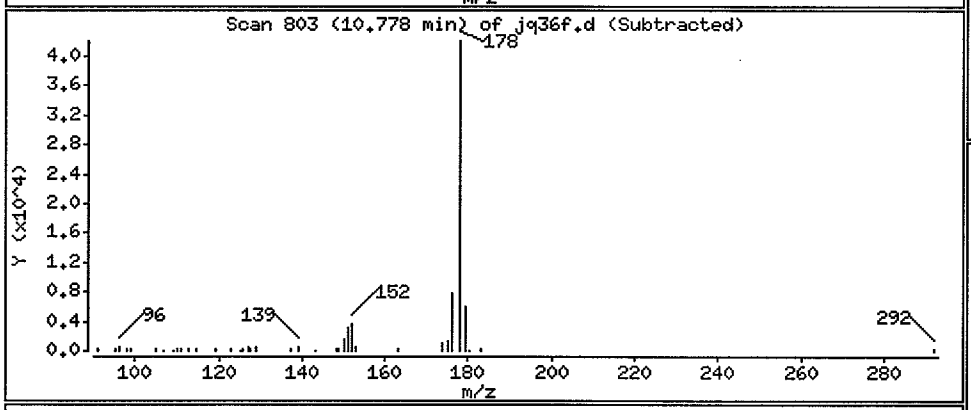
Column diameter: 0.25

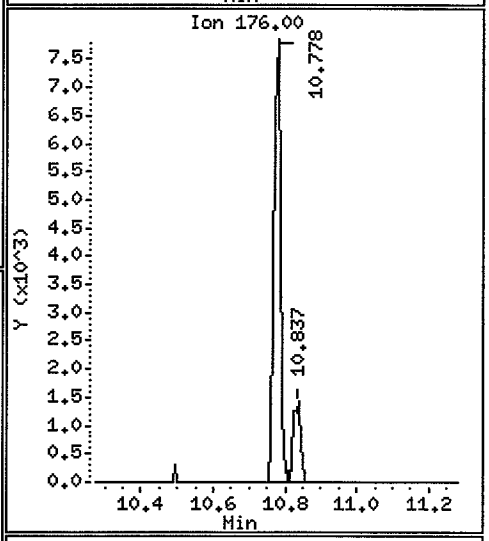
16 Phenanthrene

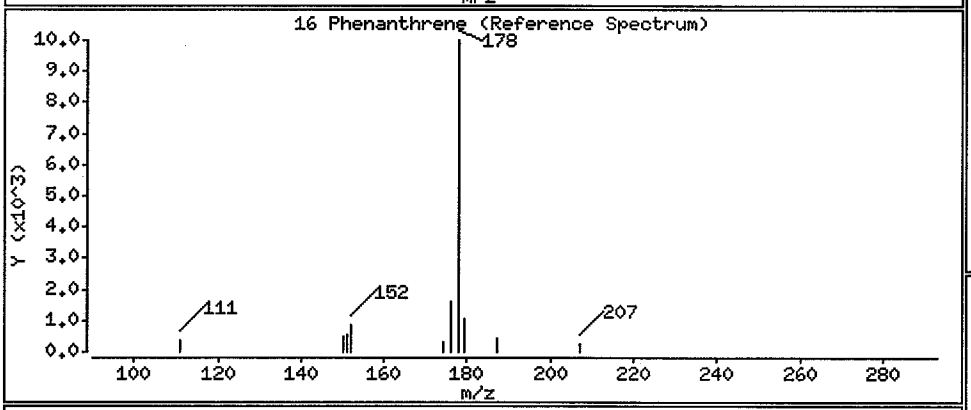
Concentration: 221.1 ug/kg

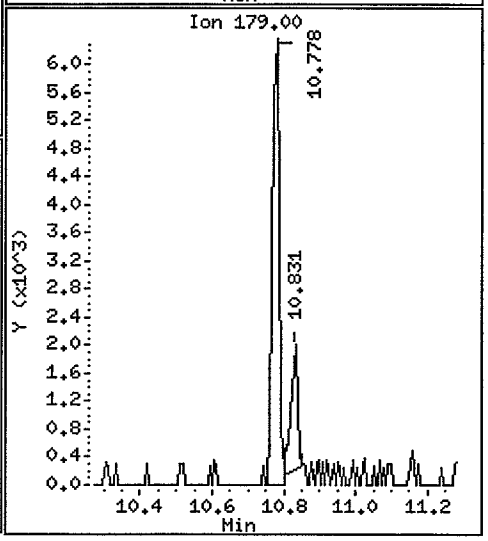


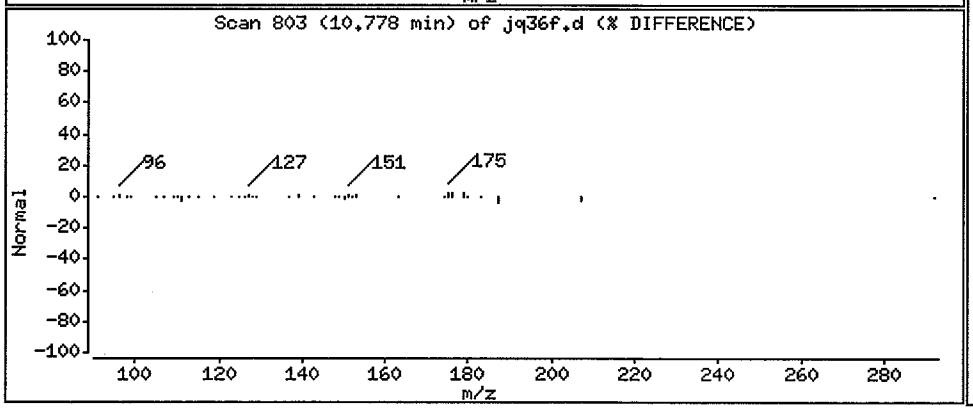












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

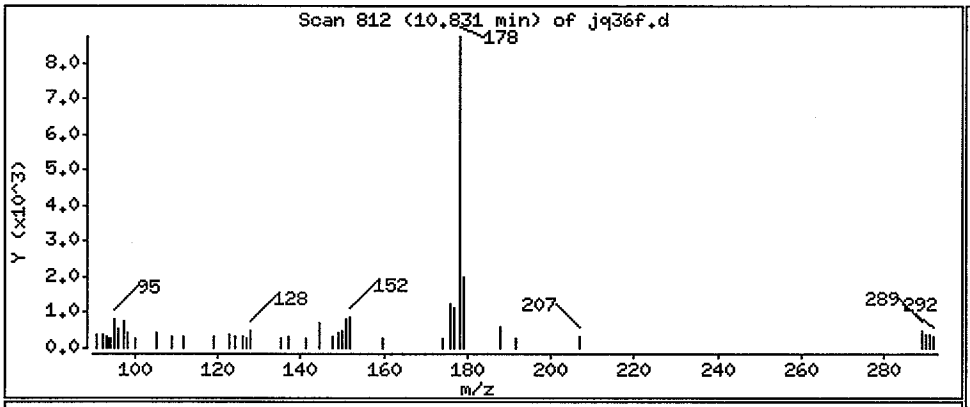
Operator: VTS

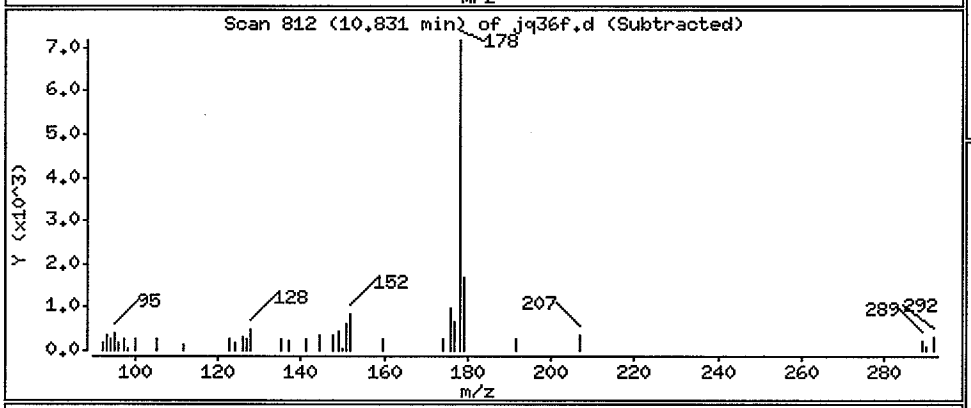
Column phase: ZB-5

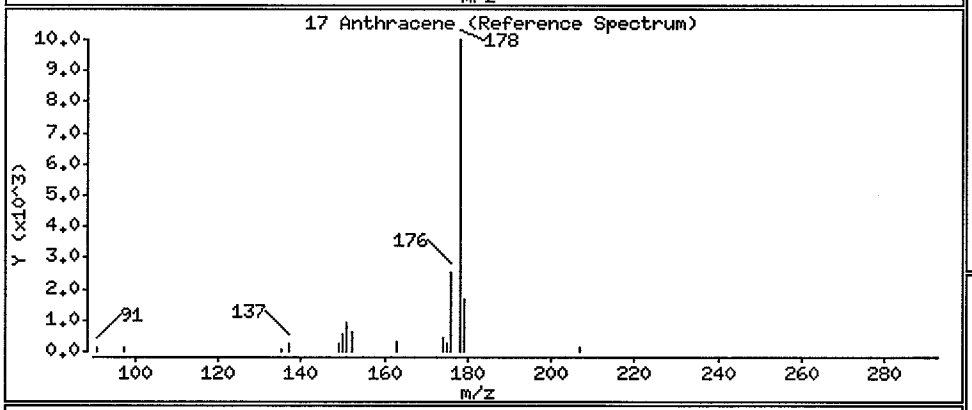
Column diameter: 0.25

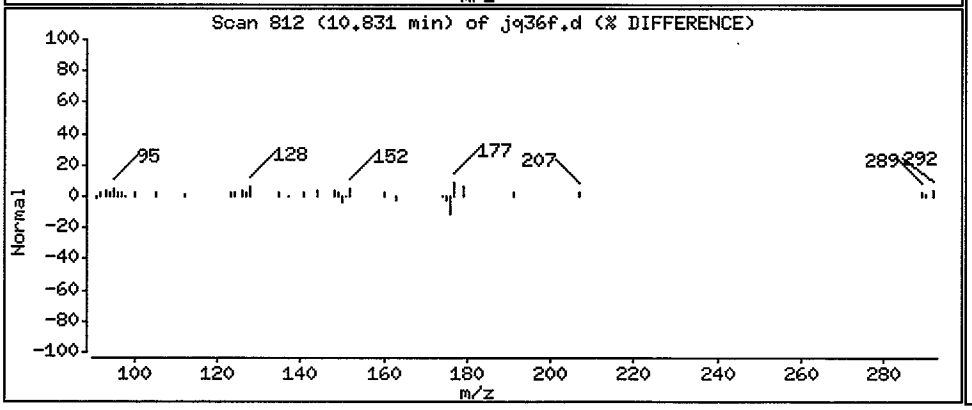
17 Anthracene

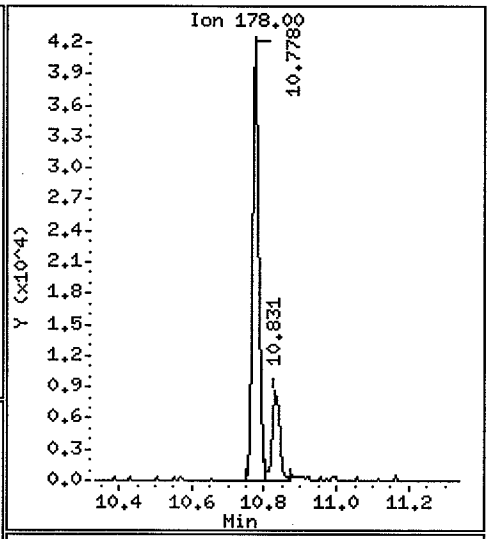
Concentration: 52.22 ug/kg

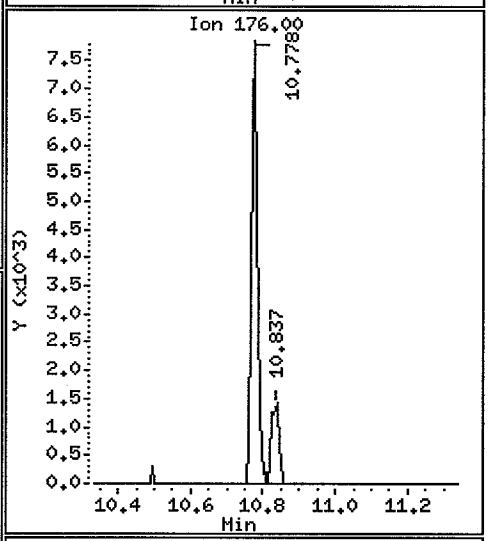


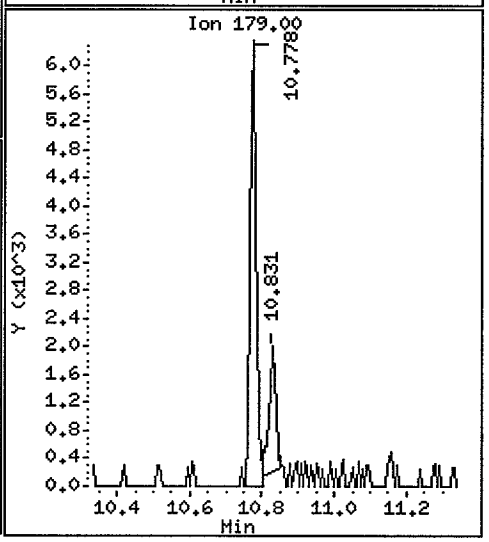












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

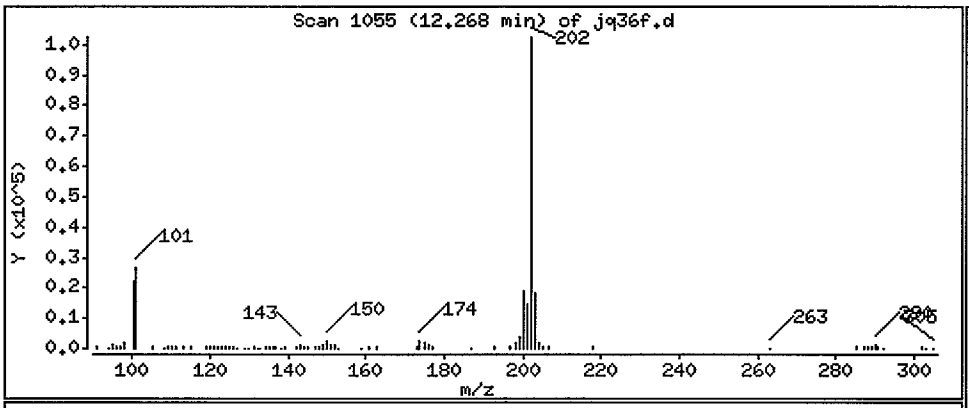
Operator: VTS

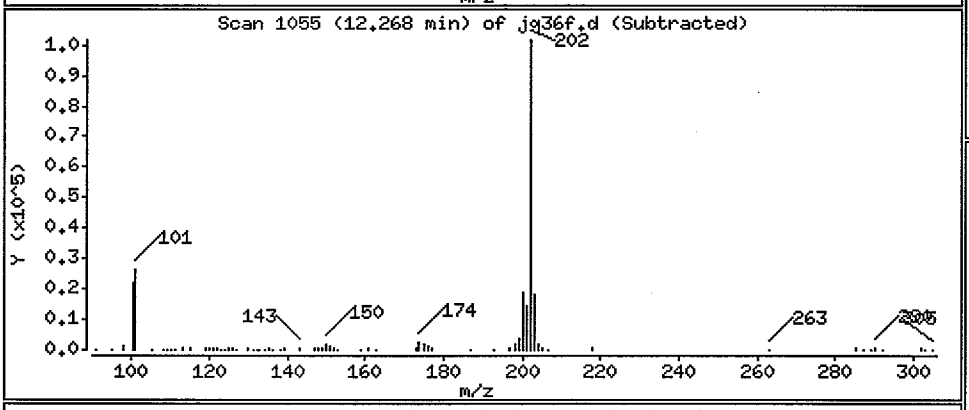
Column phase: ZB-5

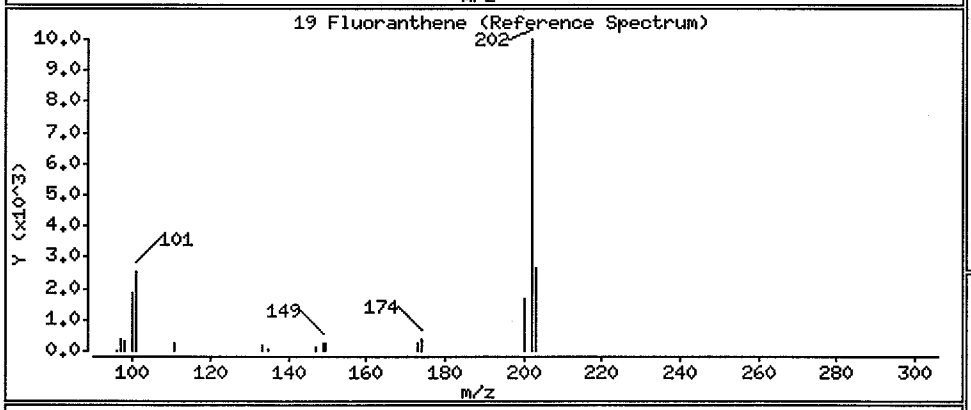
Column diameter: 0.25

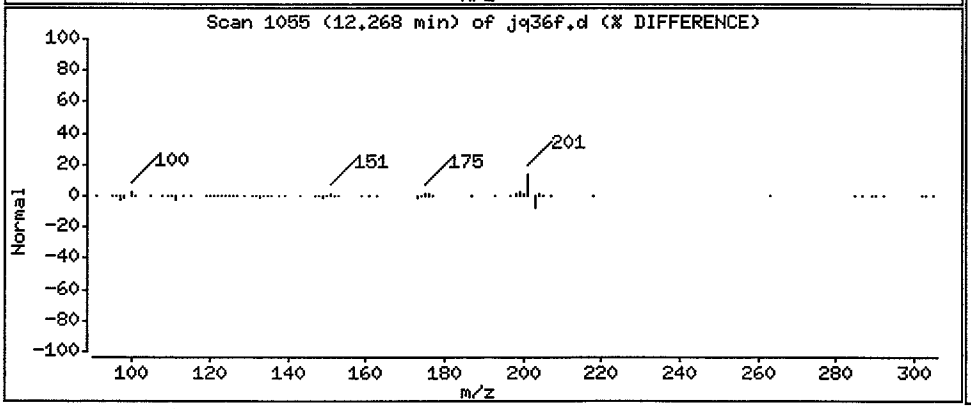
19 Fluoranthene

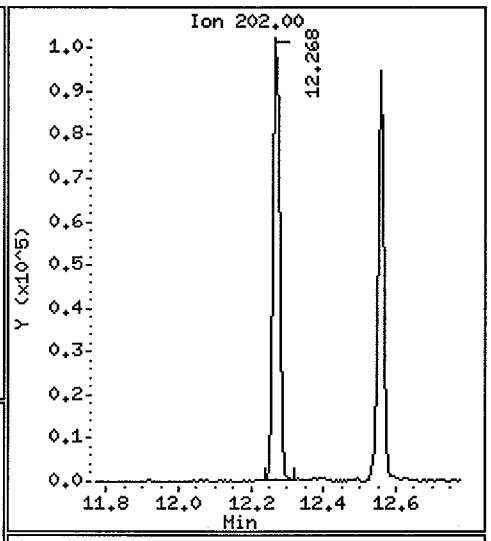
Concentration: 508.9 ug/kg

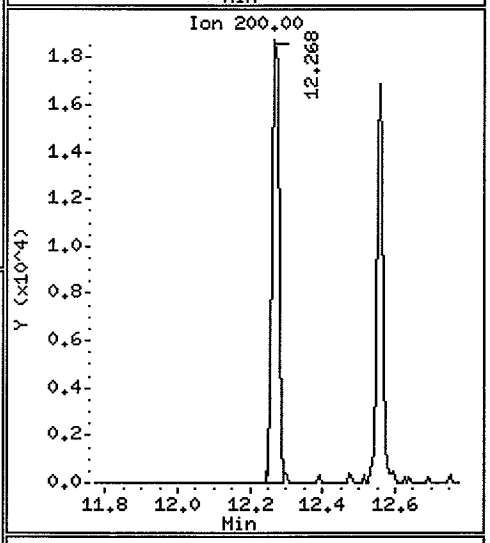


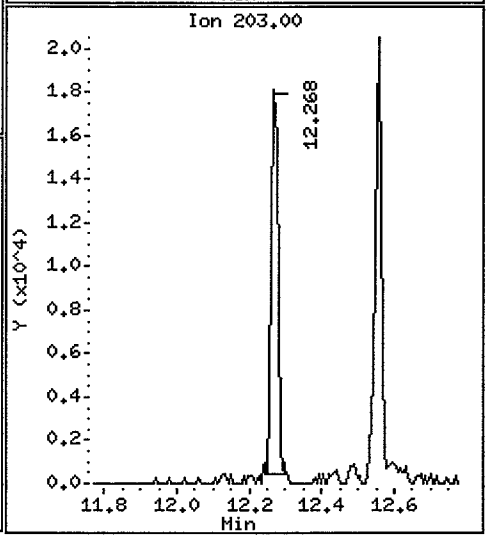












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

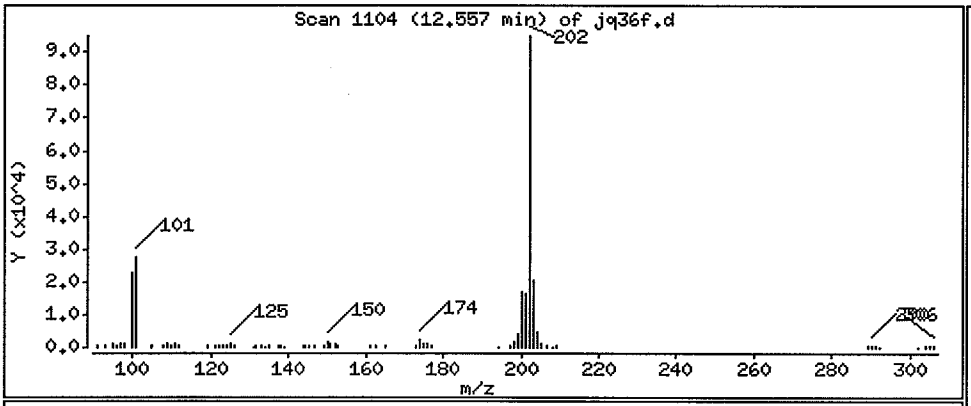
Operator: VTS

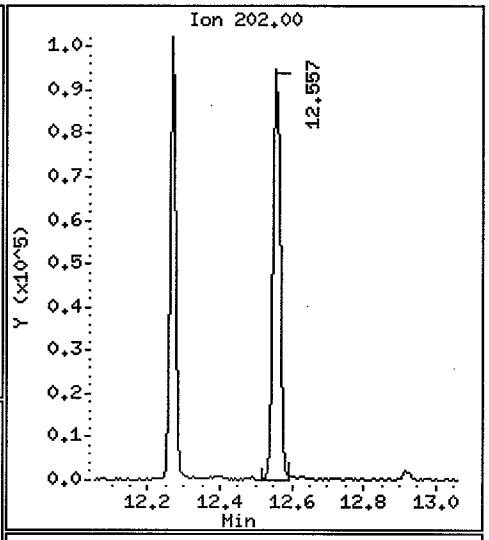
Column phase: ZB-5

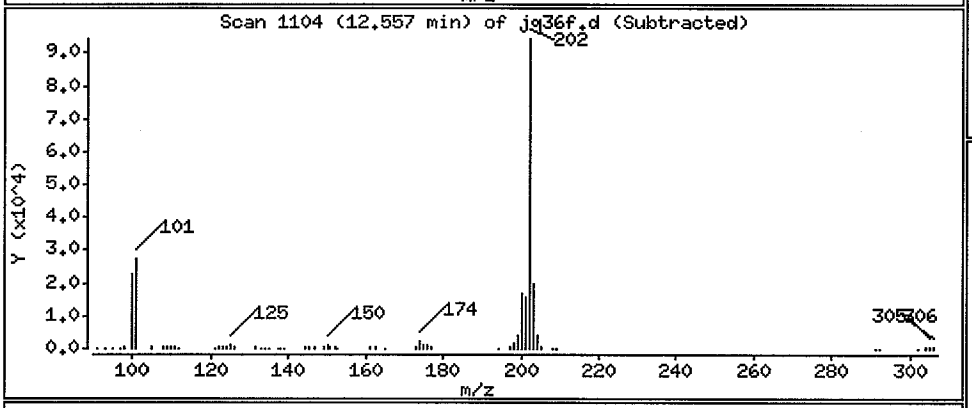
Column diameter: 0.25

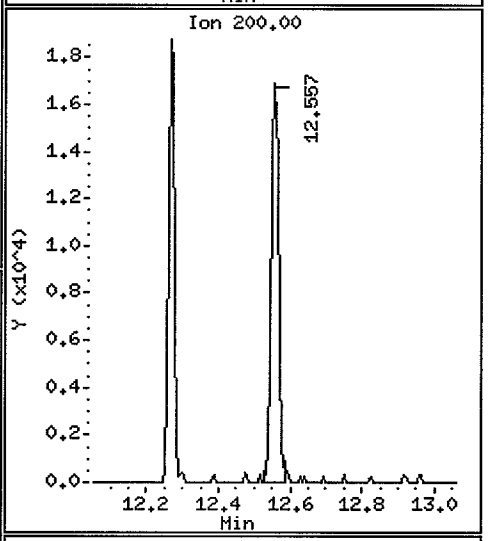
20 Pyrene

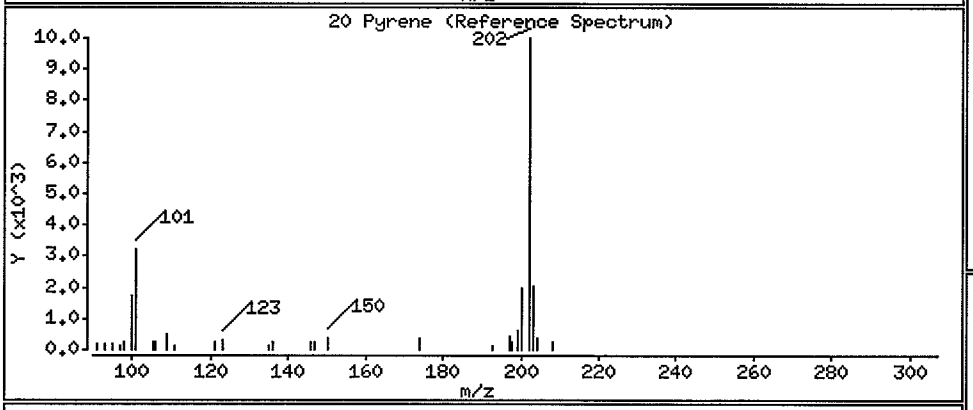
Concentration: 493.3 ug/kg

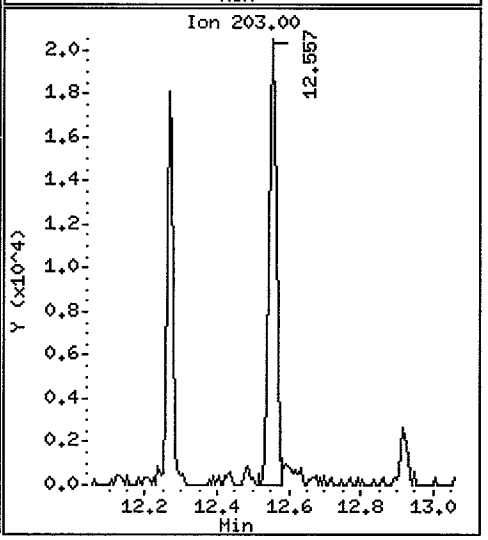


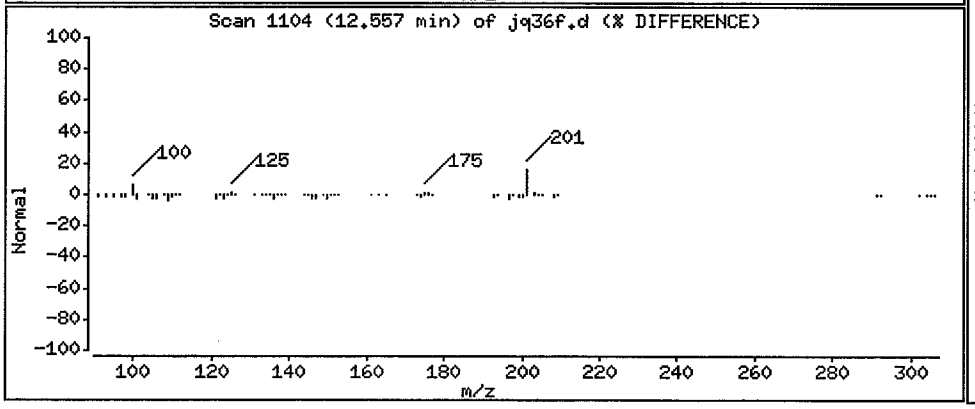












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

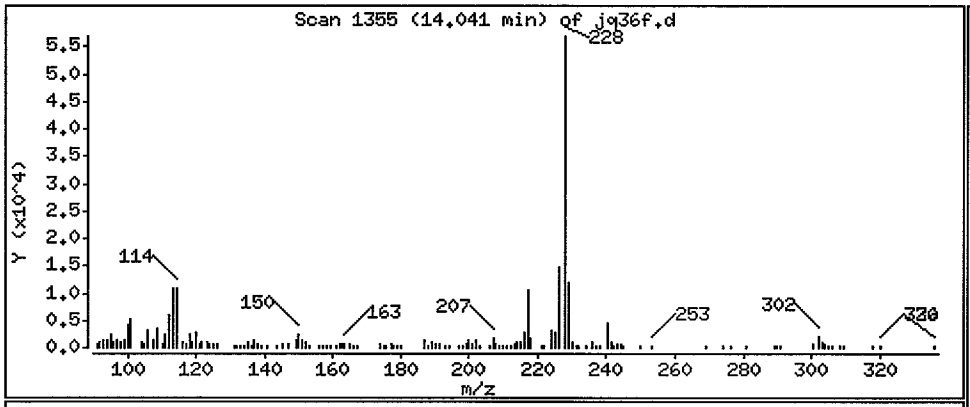
Operator: VTS

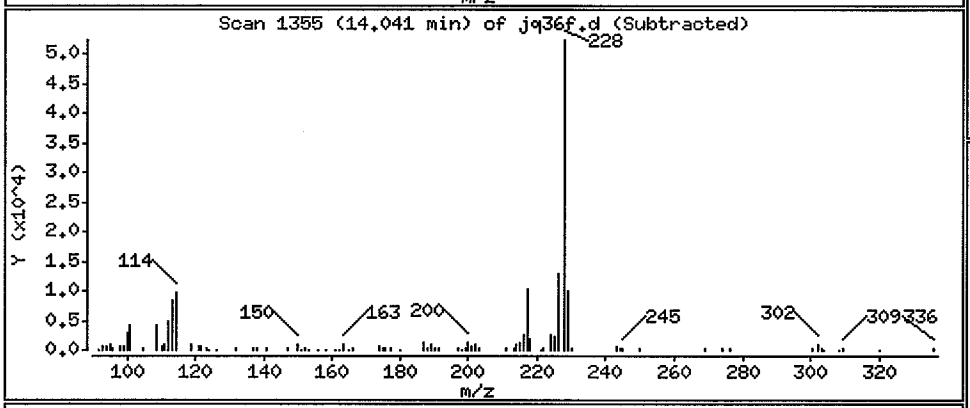
Column phase: ZB-5

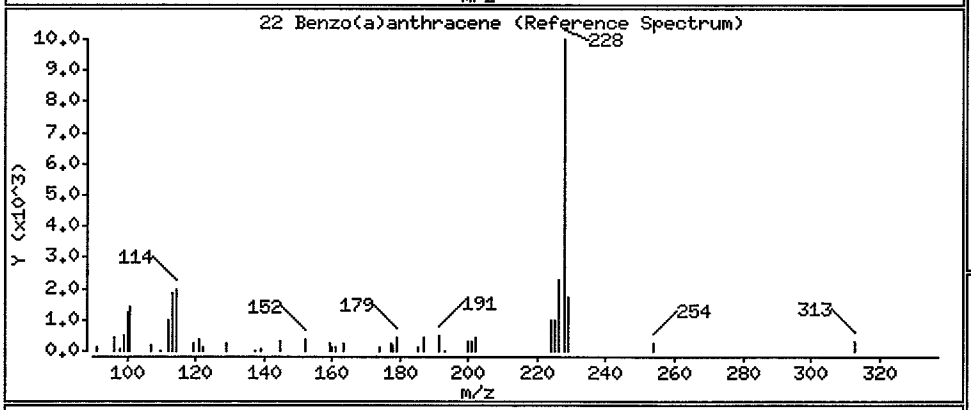
Column diameter: 0.25

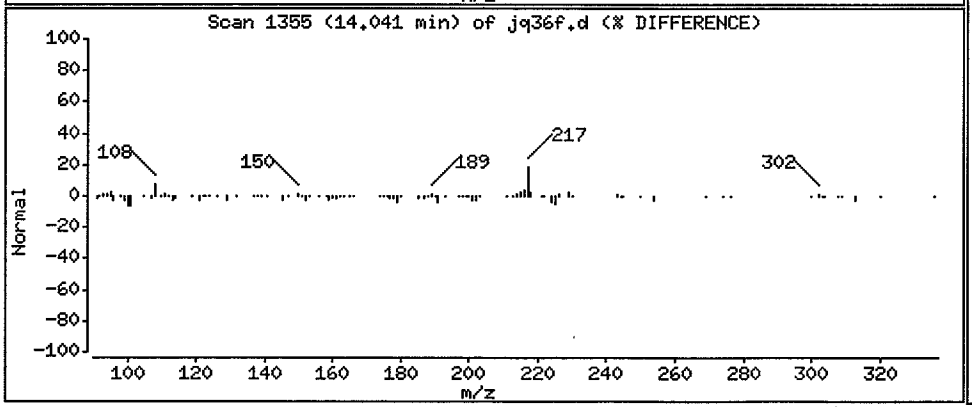
22 Benzo(a)anthracene

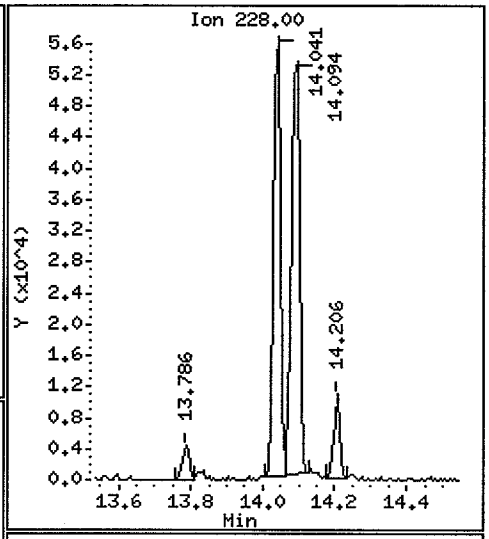
Concentration: 311.4 ug/kg

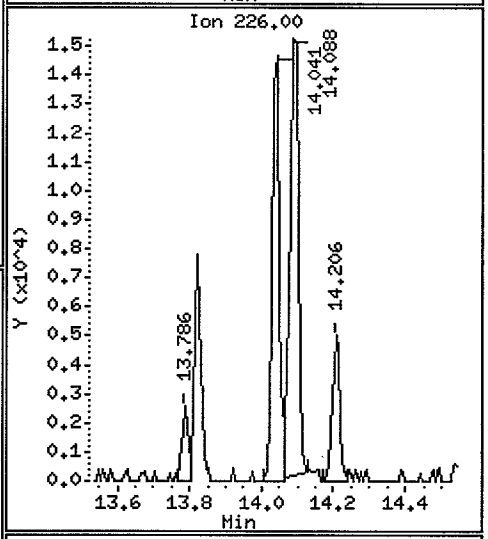


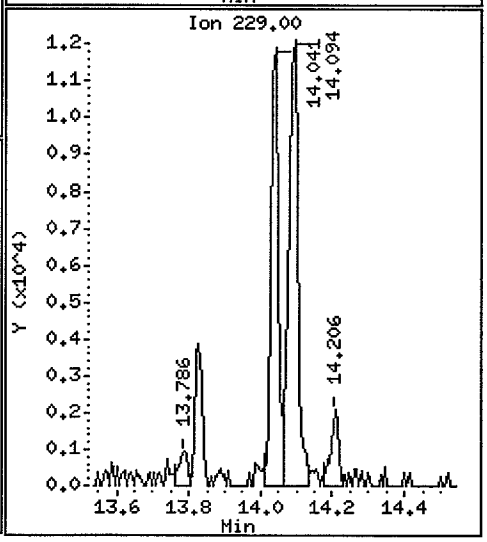












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

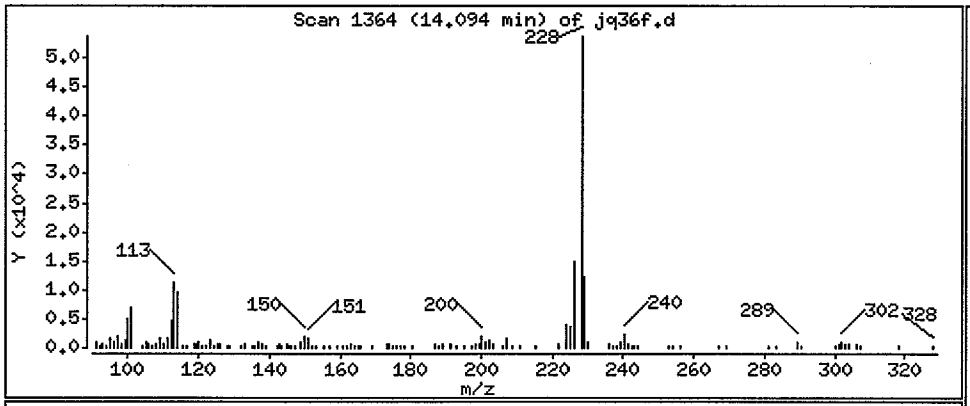
Operator: VTS

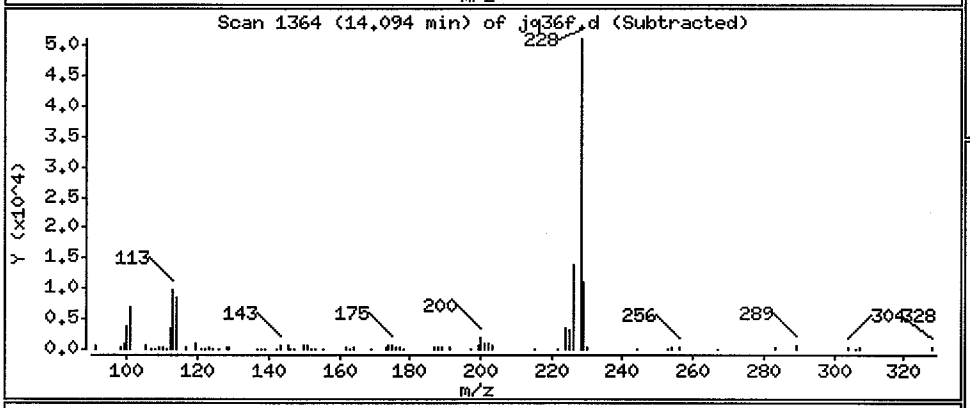
Column phase: ZB-5

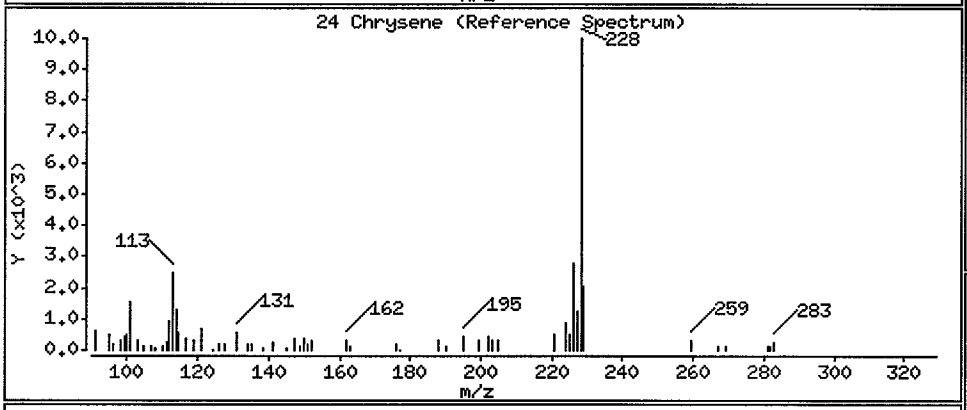
Column diameter: 0.25

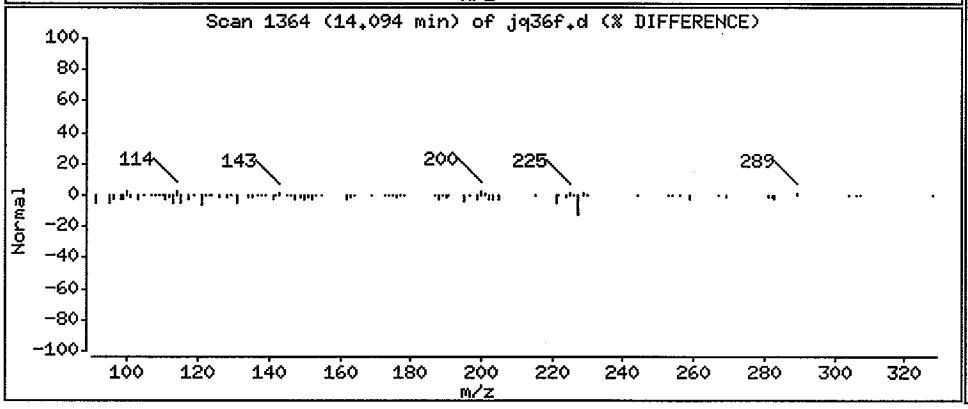
24 Chrysene

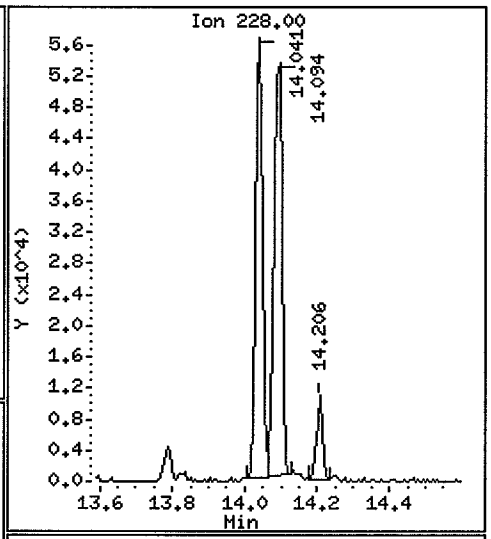
Concentration: 379.1 ug/kg

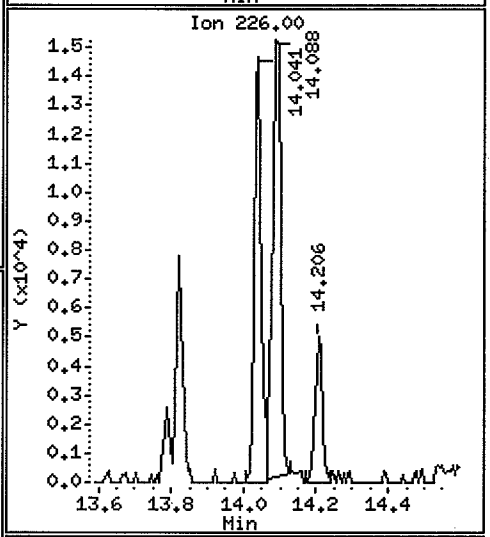


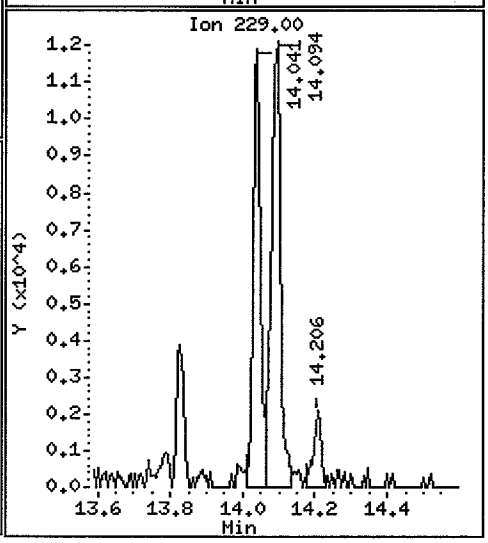












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

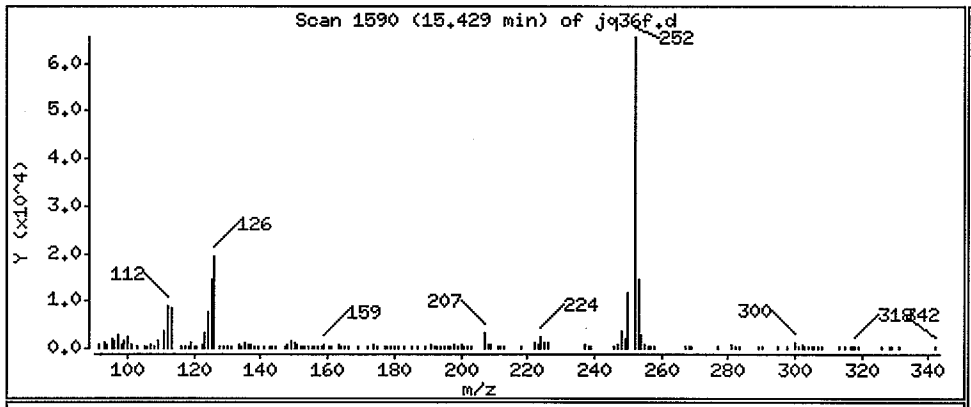
Operator: VTS

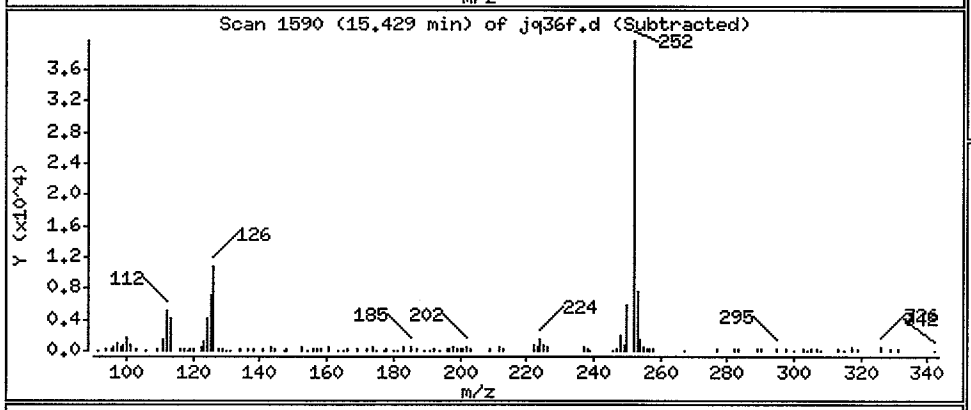
Column phase: ZB-5

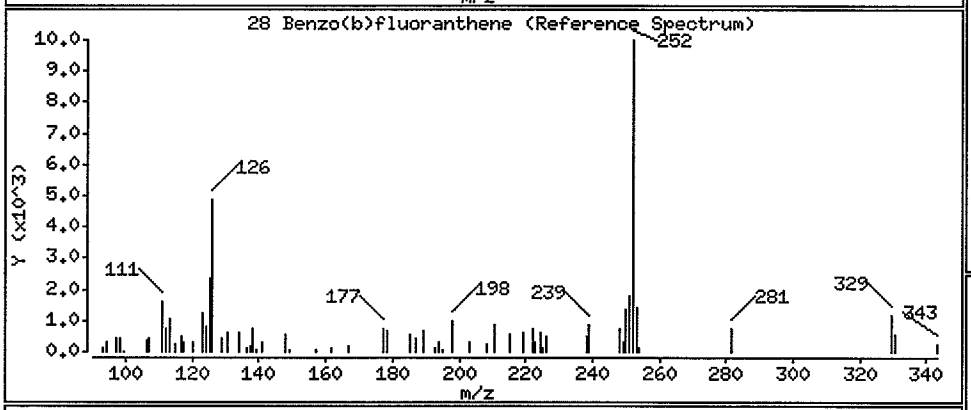
Column diameter: 0.25

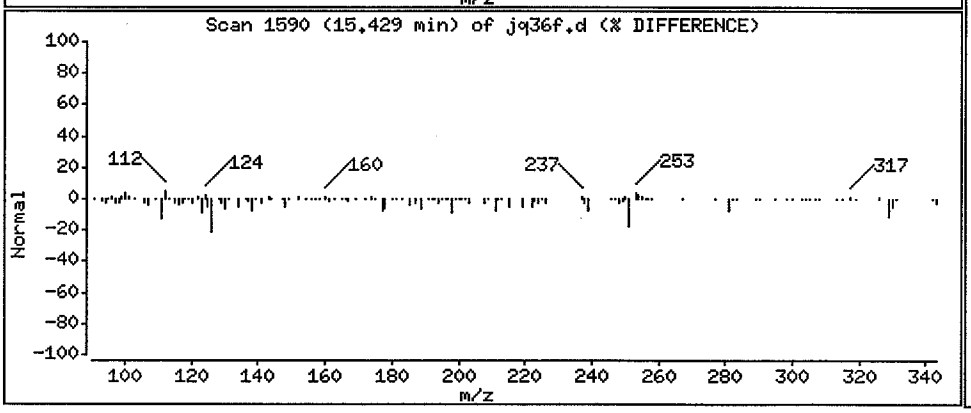
28 Benzo(b)fluoranthene

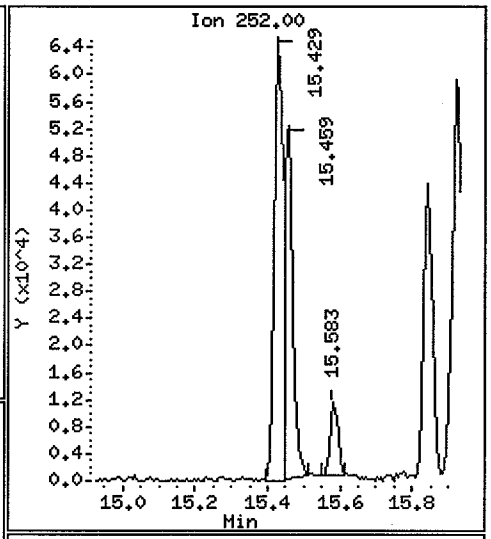
Concentration: 429.1 ug/kg

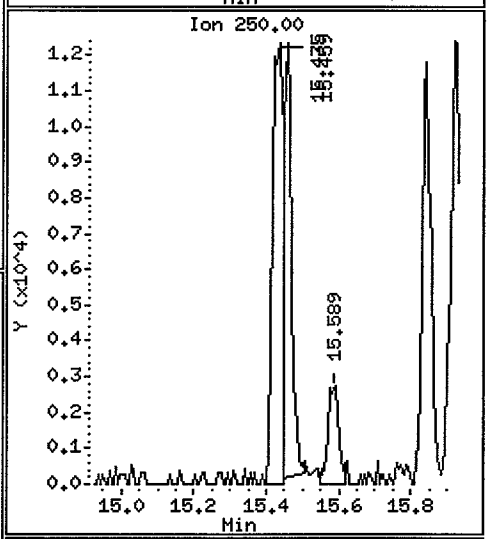


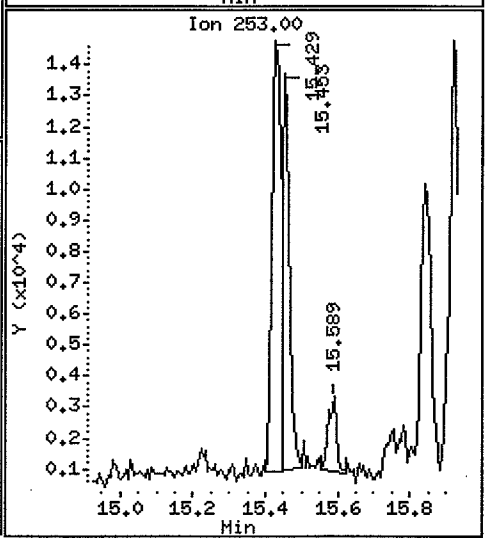












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

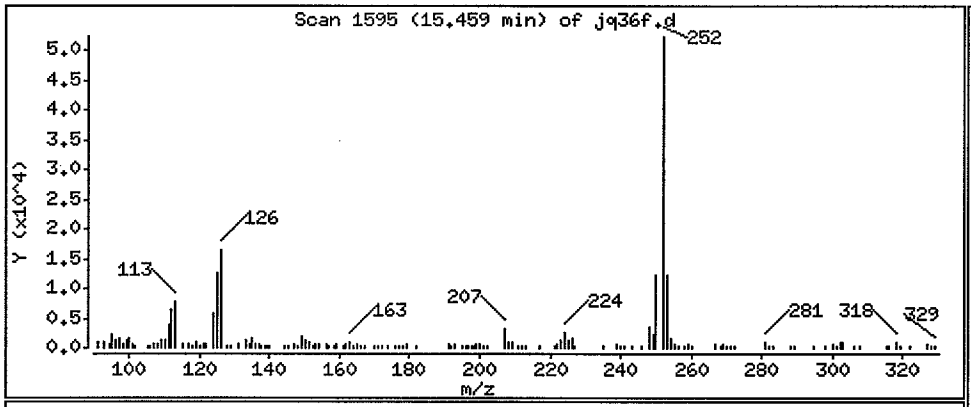
Operator: VTS

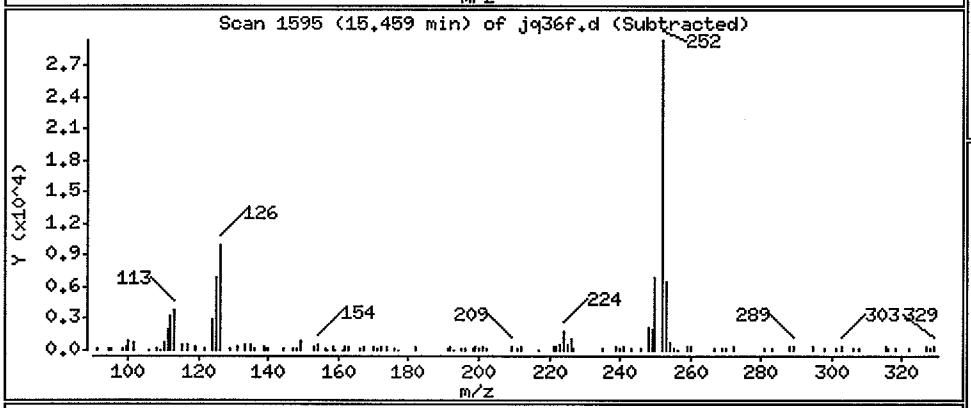
Column phase: ZB-5

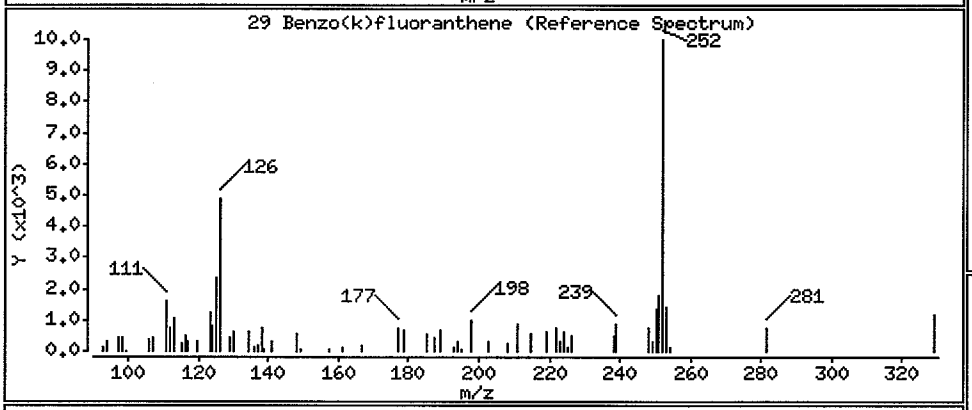
Column diameter: 0.25

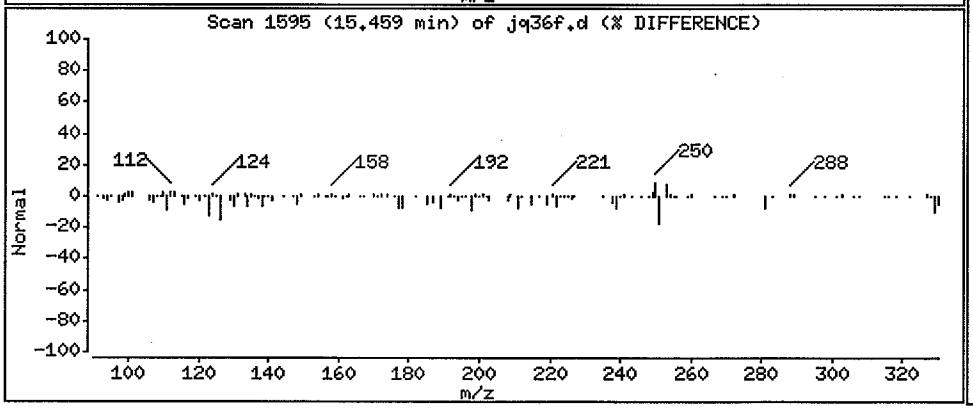
29 Benzo(k)fluoranthene

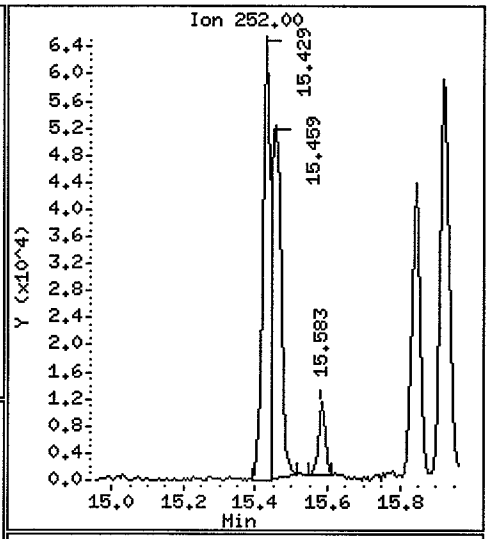
Concentration: 309.9 ug/kg

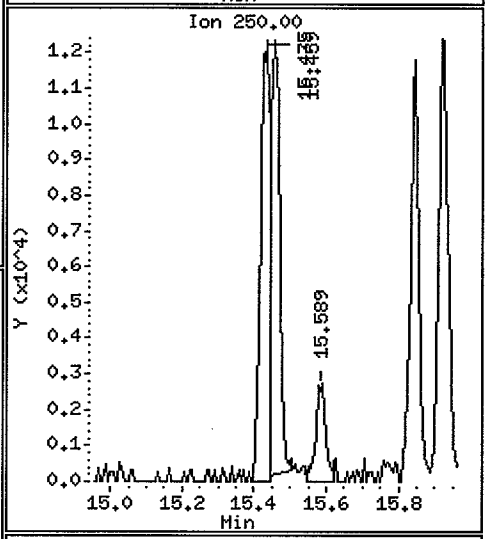


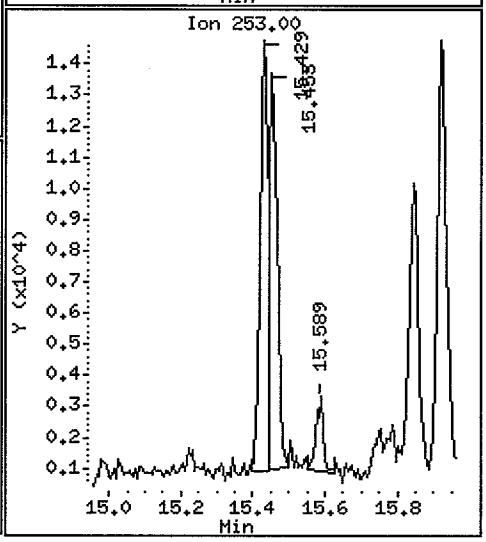












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

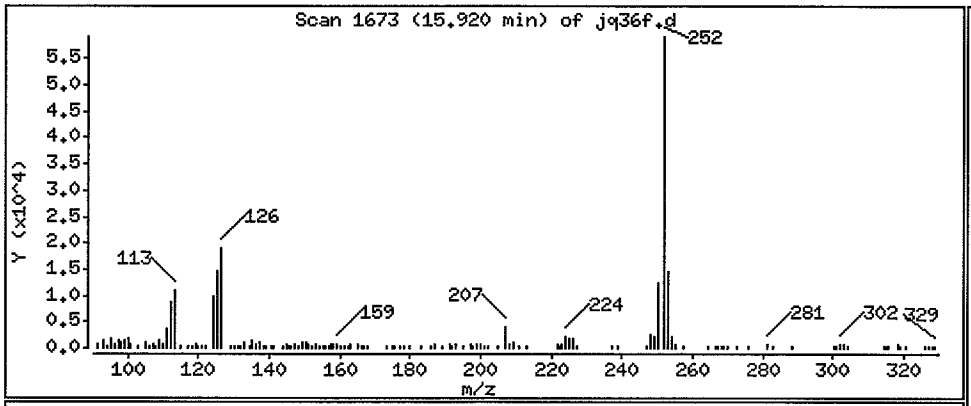
Operator: VTS

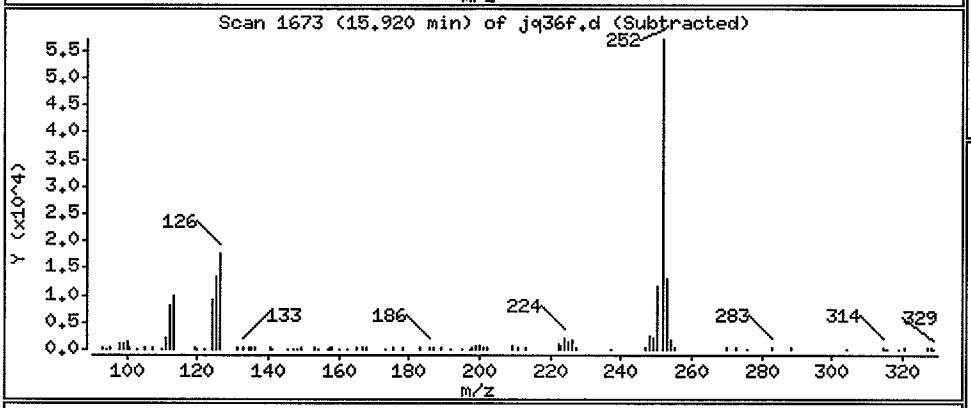
Column phase: ZB-5

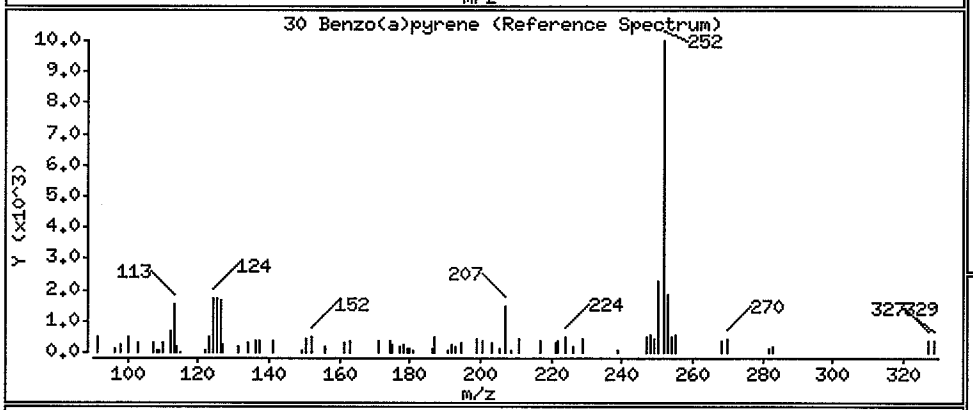
Column diameter: 0.25

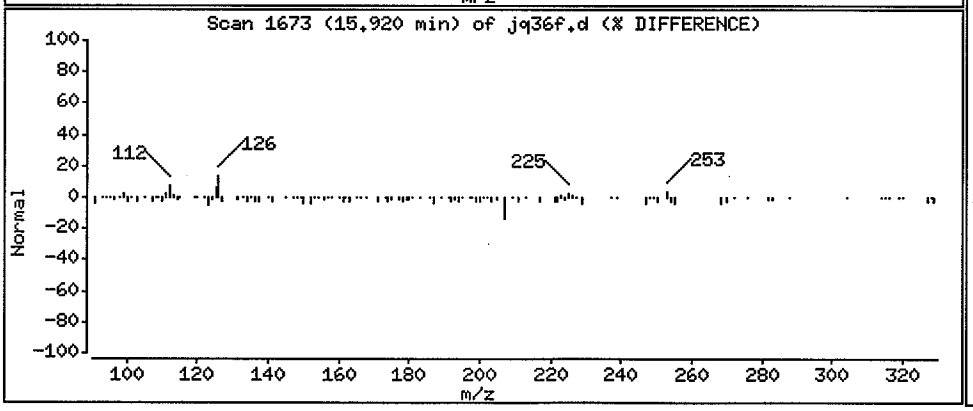
30 Benzo(a)pyrene

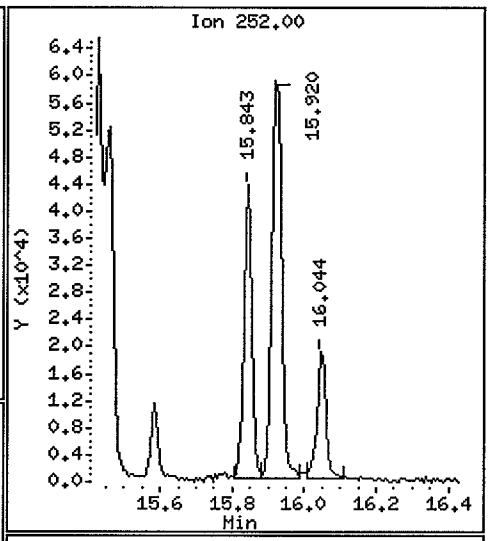
Concentration: 420.0 ug/kg

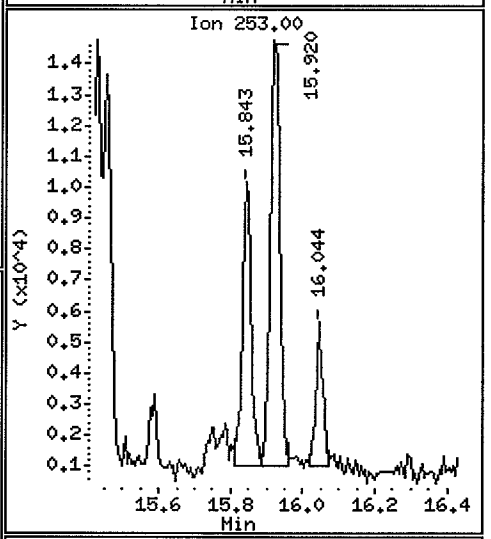


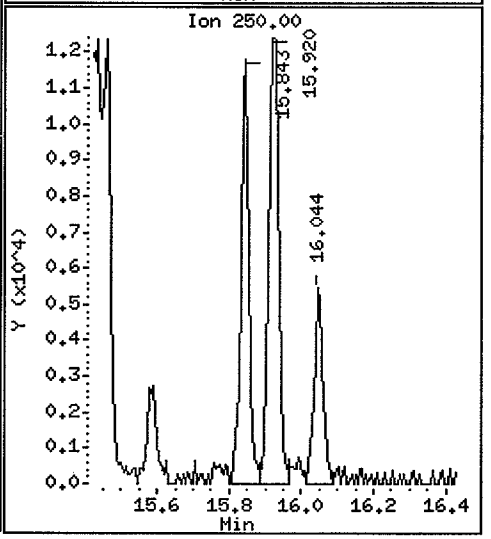












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

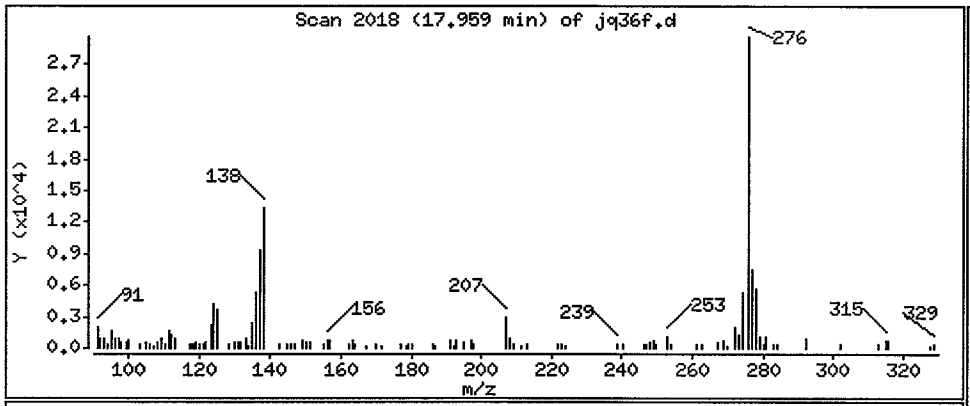
Operator: VTS

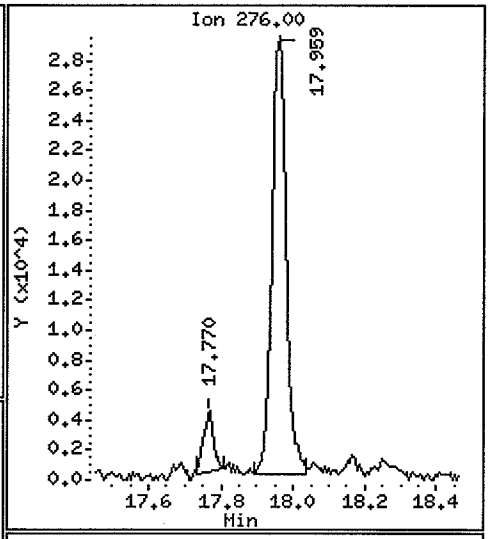
Column phase: ZB-5

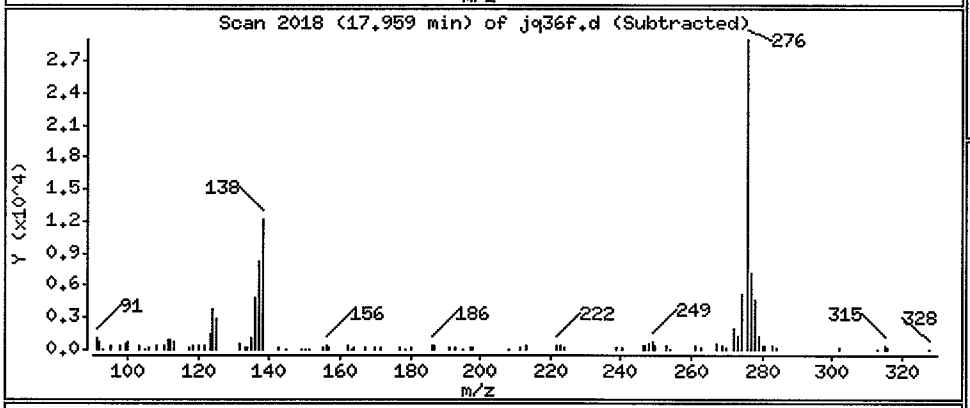
Column diameter: 0.25

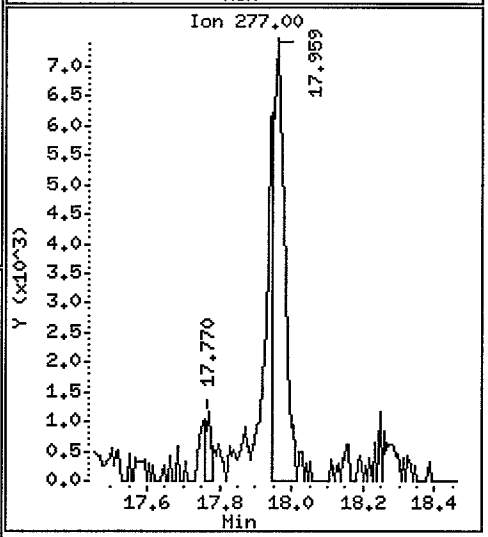
33 Indeno(1,2,3-cd)pyrene

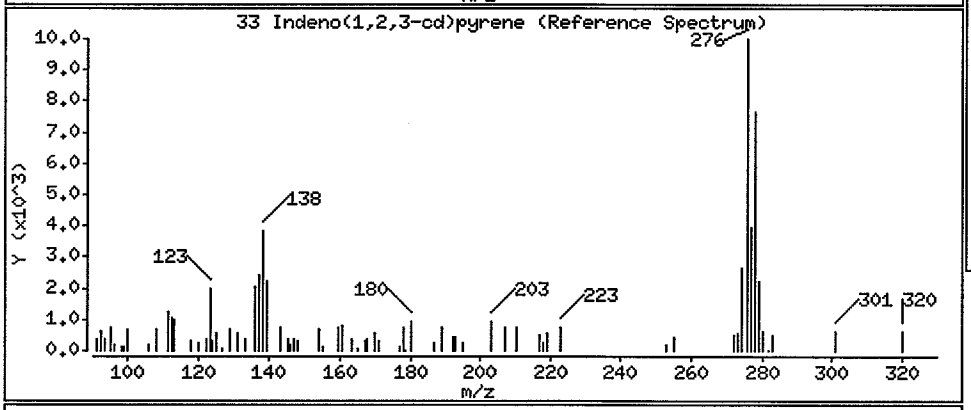
Concentration: 273.2 ug/kg

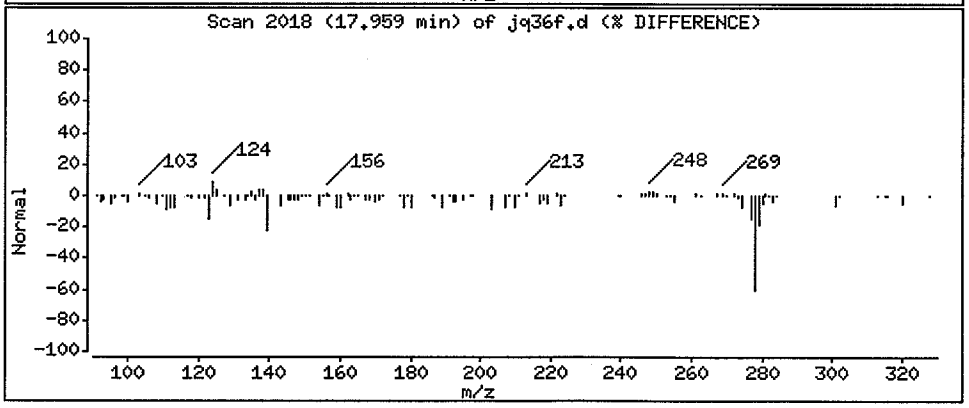












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

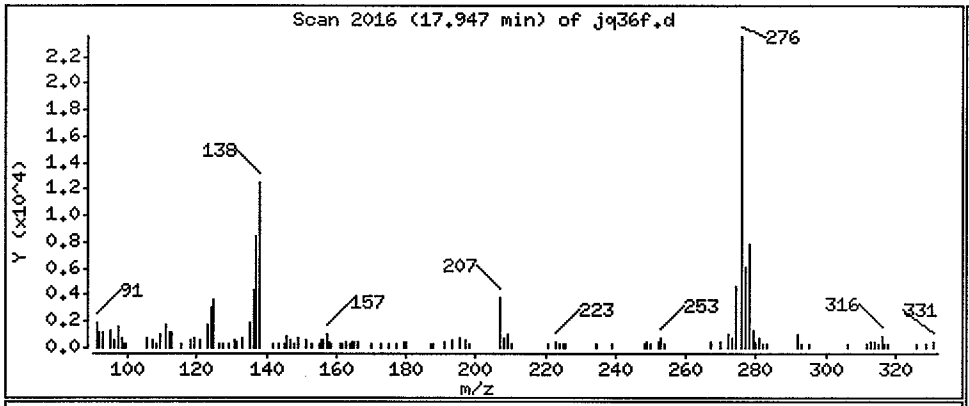
Operator: VTS

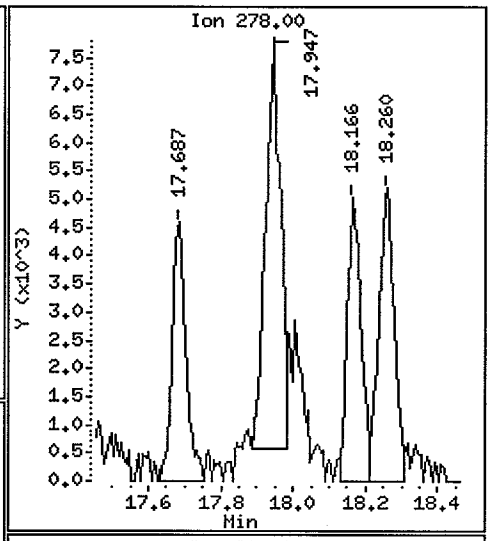
Column phase: ZB-5

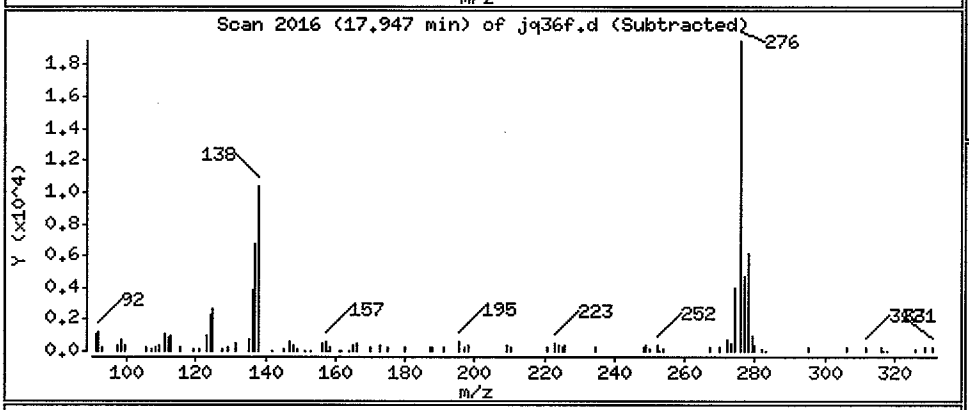
Column diameter: 0.25

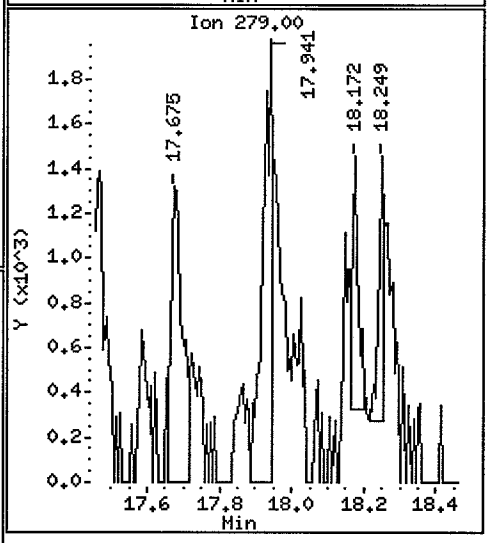
34 Dibenz(a,h)anthracene

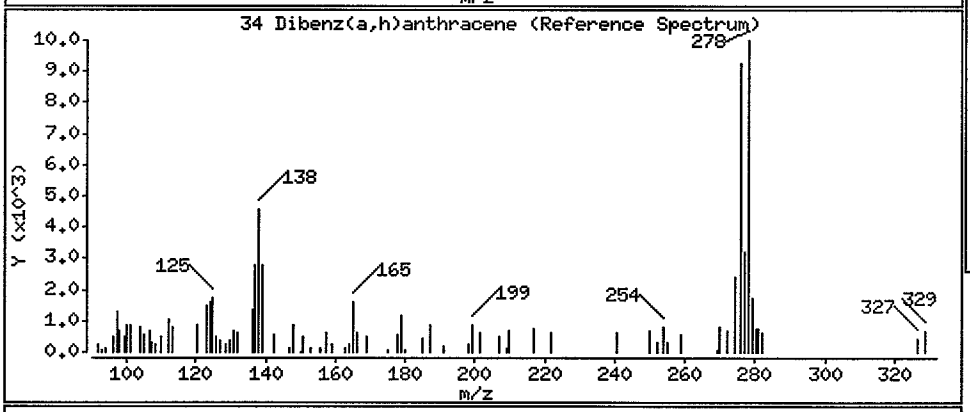
Concentration: 88.78 ug/kg

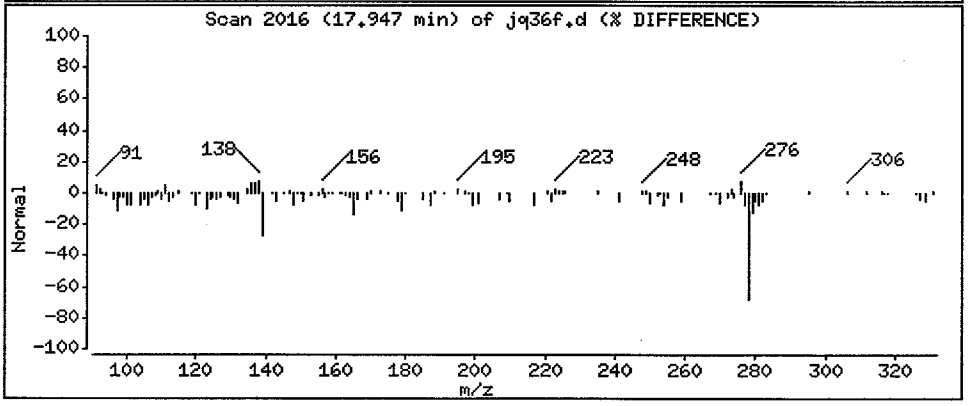












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

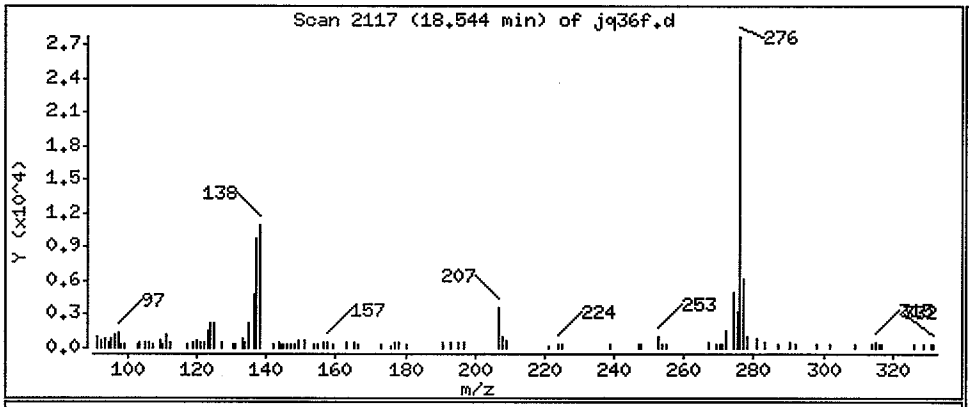
Operator: VTS

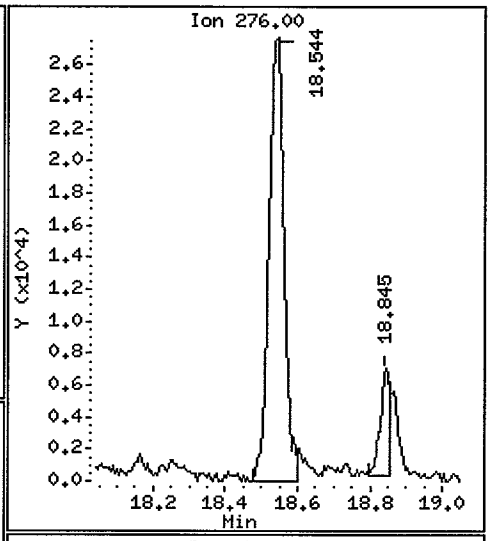
Column phase: ZB-5

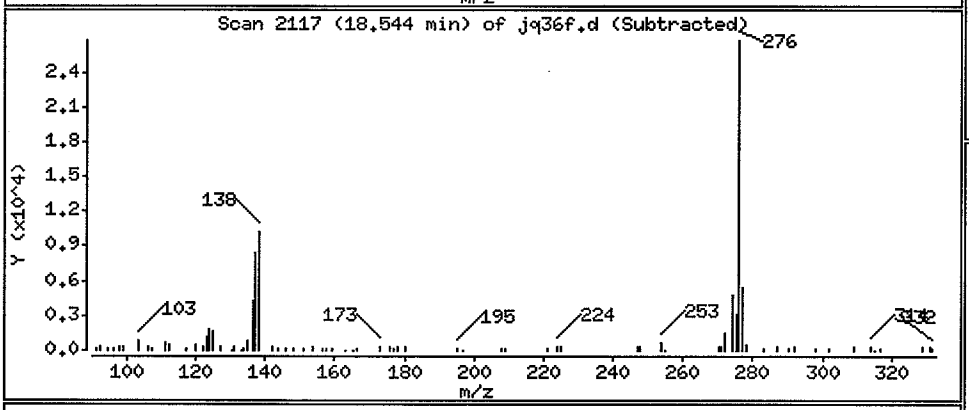
Column diameter: 0.25

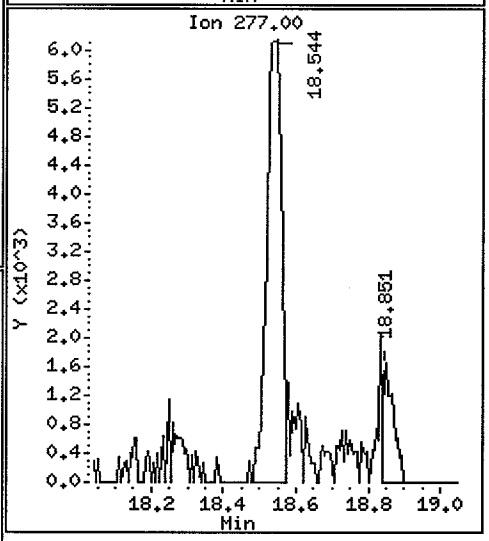
35 Benzo(g,h,i)perylene

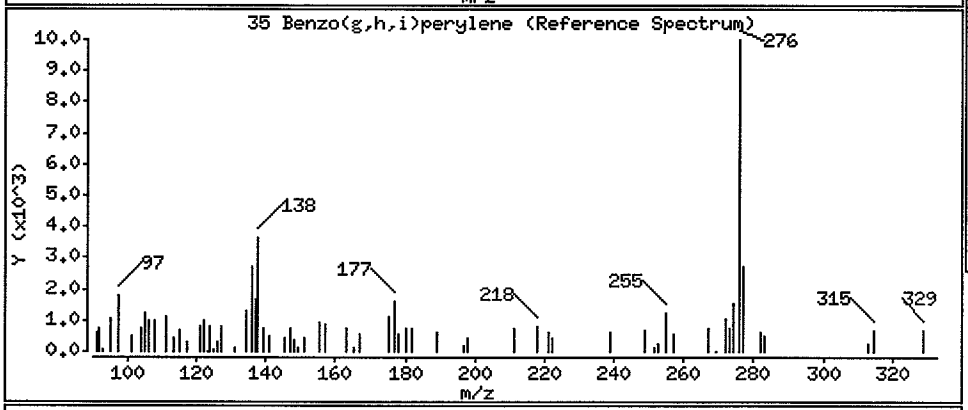
Concentration: 326.6 ug/kg

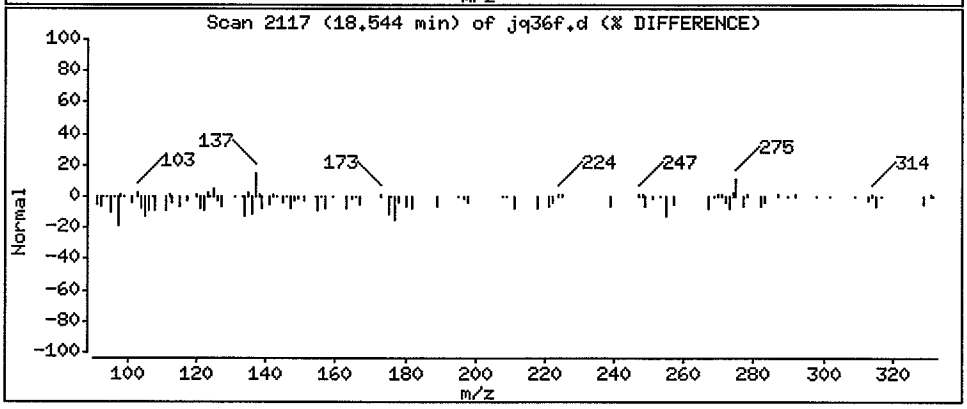












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

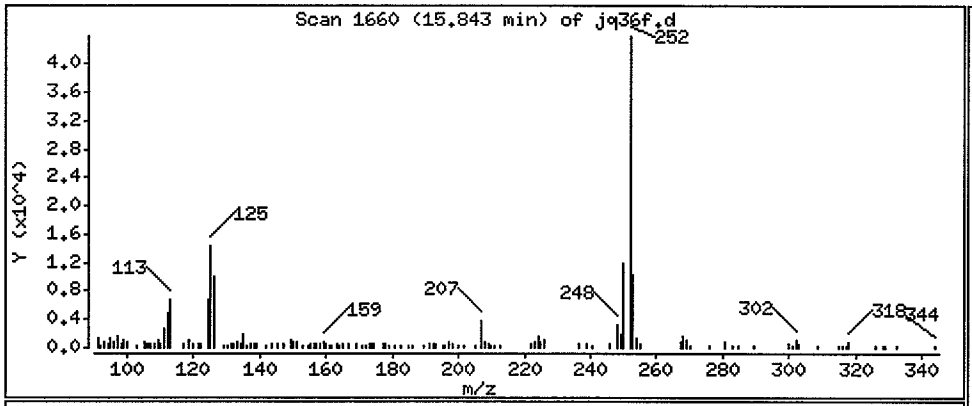
Operator: VTS

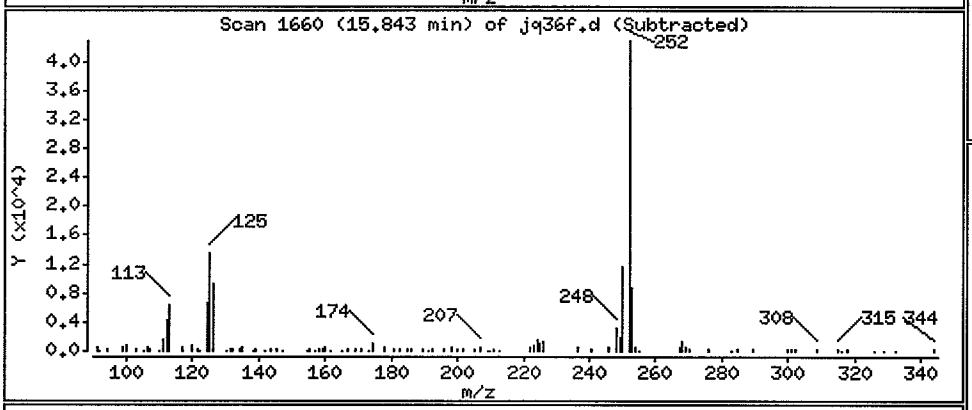
Column phase: ZB-5

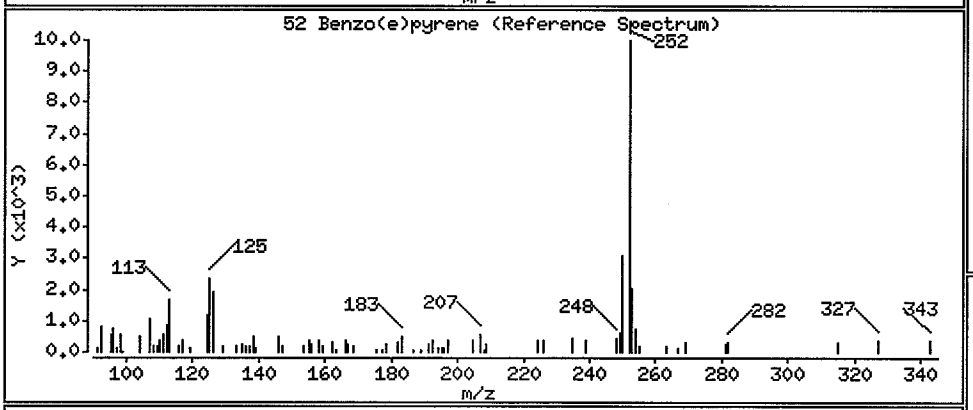
Column diameter: 0.25

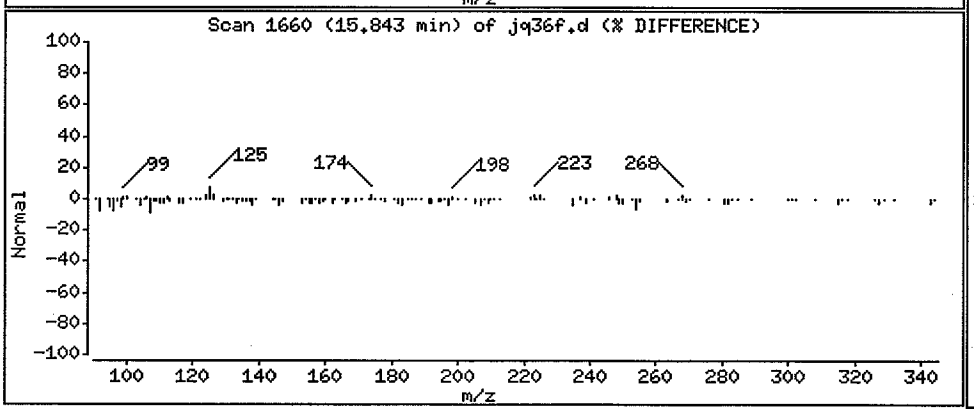
52 Benzo(e)pyrene

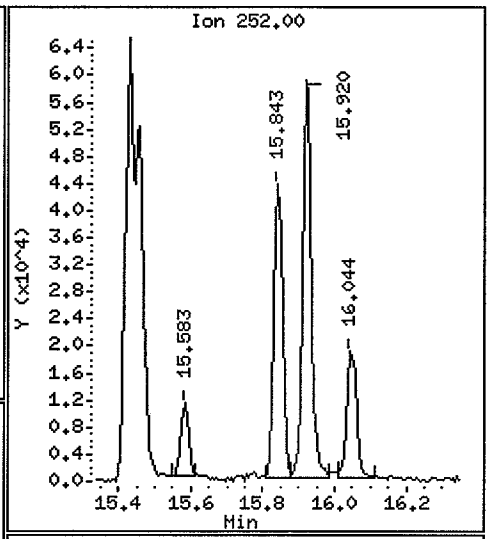
Concentration: 254.7 ug/kg

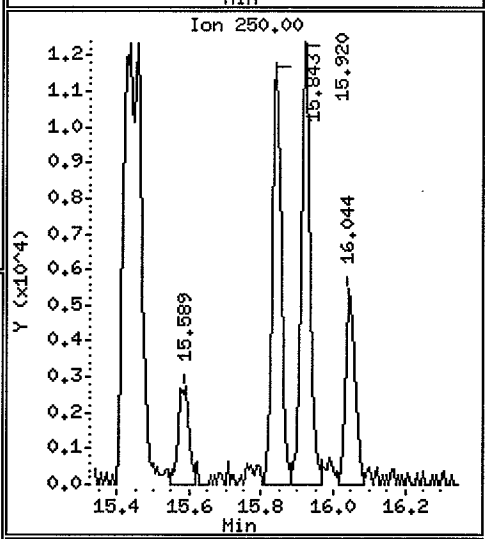


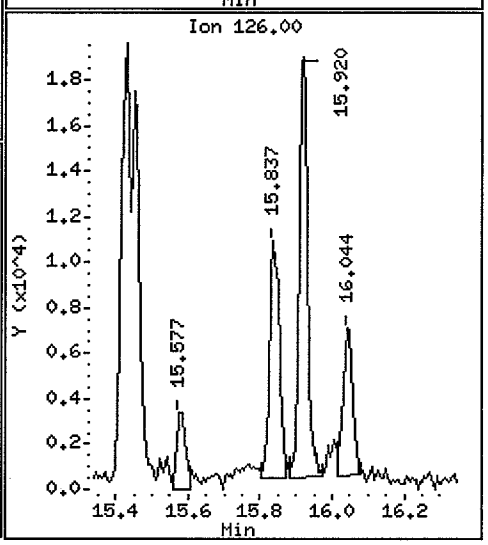












Data File: /chem3/nt1.i/20060809.b/jq36f.d

Date : 09-AUG-2006 13:07

Client ID: T4-S3-04-B

Instrument: nt1.i

Sample Info: JQ36F,10

Volume Injected (uL): 1.0

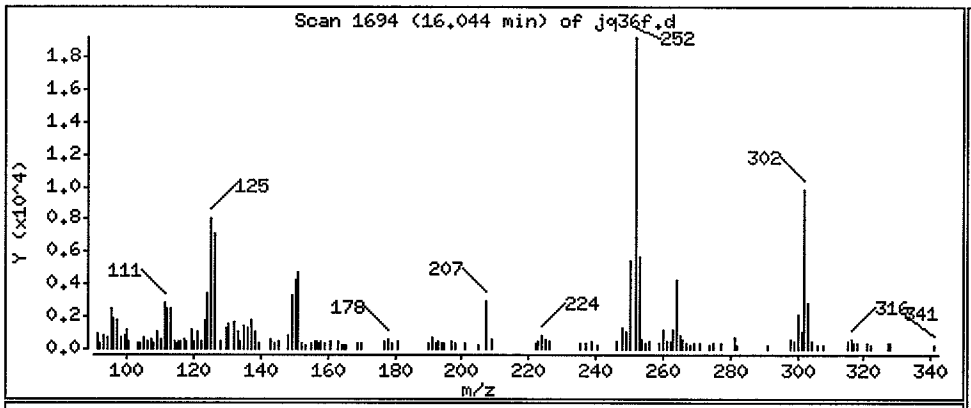
Operator: VTS

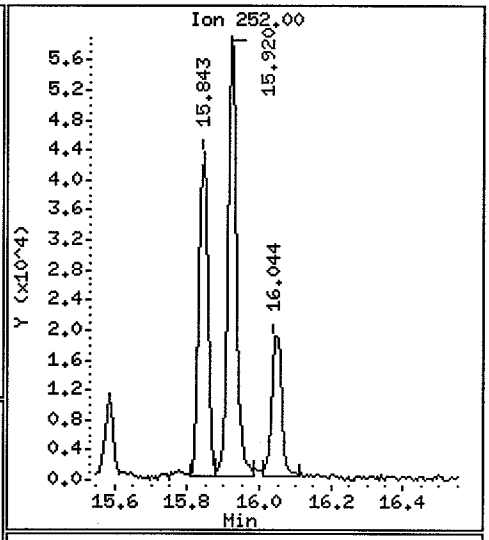
Column phase: ZB-5

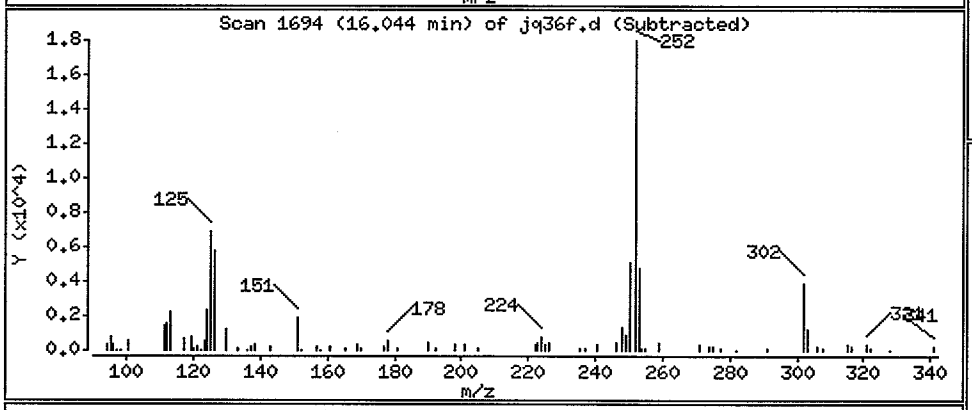
Column diameter: 0.25

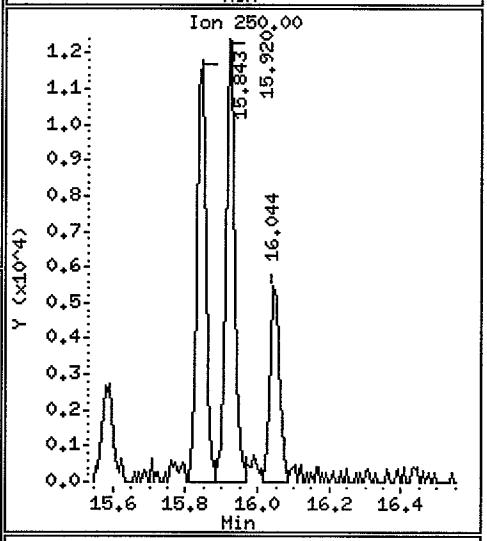
53 Perylene

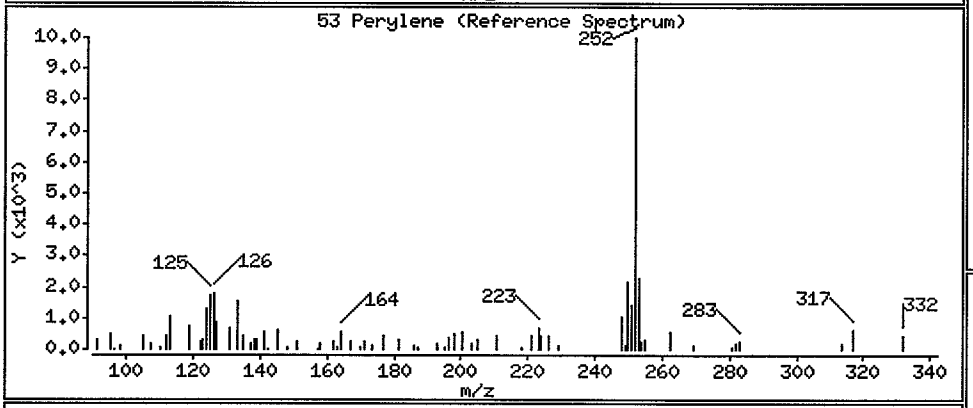
Concentration: 133.8 ug/kg

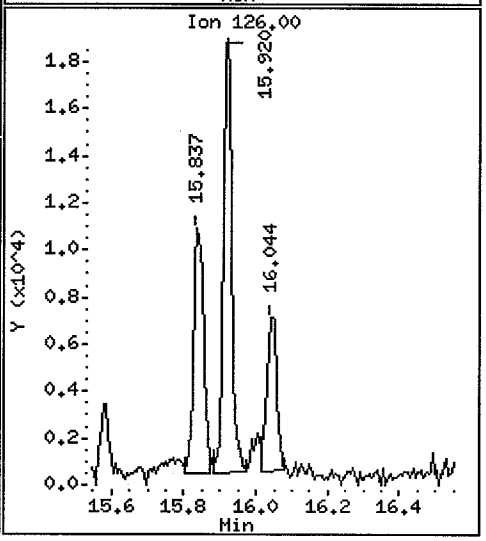


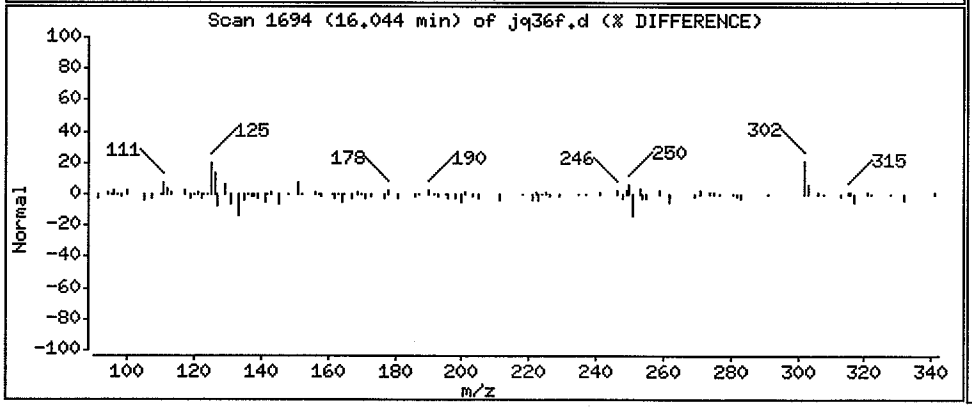












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-04-C
SAMPLE

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:56
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.78 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 29.3%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	**Naphthalene**	**28**	**76**	
91-57-6	**2-Methylnaphthalene**	**28**	**42**	
90-12-0	**1-Methylnaphthalene**	**28**	**20**	**J**
208-96-8	Acenaphthylene	28	< 28	U
83-32-9	**Acenaphthene**	**28**	**370**	
86-73-7	**Fluorene**	**28**	**160**	
85-01-8	**Phenanthrene**	**28**	**1,400**	
120-12-7	**Anthracene**	**28**	**320**	
206-44-0	**Fluoranthene**	**28**	**3,200**	**E**
129-00-0	**Pyrene**	**28**	**3,000**	**E**
56-55-3	**Benzo(a)anthracene**	**28**	**2,200**	
218-01-9	**Chrysene**	**28**	**2,600**	
205-99-2	**Benzo(b)fluoranthene**	**28**	**2,500**	
207-08-9	**Benzo(k)fluoranthene**	**28**	**2,400**	
50-32-8	**Benzo(a)pyrene**	**28**	**2,800**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**28**	**1,500**	
53-70-3	**Dibenz(a,h)anthracene**	**28**	**560**	
191-24-2	**Benzo(g,h,i)perylene**	**28**	**1,600**	
198-55-0	**Perylene**	**28**	**840**	
92-52-4	Biphenyl	28	< 28	U
581-42-0	2,6-Dimethylnaphthalene	28	< 28	U
832-69-9	**1-Methylphenanthrene**	**28**	**100**	
192-97-2	**Benzo(e)pyrene**	**28**	**1,700**	
2245-38-7	2,3,5-Trimethylnaphthalene	28	< 28	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracen	62.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36g.d
Lab Smp Id: JQ36G Client Smp ID: T4-S3-04-C
Inj Date : 10-AUG-2006 17:56
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36G
Misc Info : 06-12978
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 7
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	2.52000	Weight of sample extracted (g)
M	29.30000	% 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	6.872	6.874	(1.000)	289236	2.00000	
	2 Naphthalene	128	6.895	6.898	(1.003)	38903	0.26965	75.68
$	3 2-Methylnaphthalene-d10	152	7.628	7.630	(1.110)	132101	1.77322	497.6
	4 2-Methylnaphthalene	142	7.670	7.666	(1.116)	12434	0.14553	40.84
	5 1-Methylnaphthalene	142	7.800	7.796	(1.135)	6183	0.06899	19.36 J
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.934	8.937	(1.000)	146350	2.00000	
	9 Acenaphthene	153	8.976	8.972	(1.005)	94229	1.31128	368.0
	10 Dibenzofuran	168	9.165	9.161	(1.026)	25920	0.24488	68.72
	11 Fluorene	166	9.585	9.587	(1.073)	47272	0.57368	161.0
*	15 Phenanthrene-d10	188	10.749	10.745	(1.000)	226319	2.00000	
	16 Phenanthrene	178	10.778	10.775	(1.003)	580777	4.99955	1403
	17 Anthracene	178	10.832	10.828	(1.008)	129622	1.11658	313.4
	19 Fluoranthene	202	12.268	12.270	(1.141)	1339950	11.3089	3174 E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
20	Pyrene	202	12.557	12.554	(0.893)	1318819	10.6986	3002	E
22	Benzo(a)anthracene	228	14.041	14.037	(0.999)	886744	7.67061	2153	
* 23	Chrysene-d12	240	14.058	14.055	(1.000)	191972	2.00000		
24	Chrysene	228	14.094	14.090	(1.003)	988037	9.26631	2600	
28	Benzo(b)fluoranthene	252	15.435	15.426	(0.964)	1120996	9.01152	2529	
29	Benzo(k)fluoranthene	252	15.465	15.455	(0.966)	1154406	8.70475	2443	
30	Benzo(a)pyrene	252	15.926	15.916	(0.995)	1192542	9.83850	2761	
* 31	Perylene-d12	264	16.009	15.999	(1.000)	220413	2.00000		
33	Indeno(1,2,3-cd)pyrene	276	17.971	17.949	(1.123)	759342	5.44748	1529	
$ 32	Dibenz(a,h)anthrancene-d14	292	17.888	17.873	(1.117)	158739	1.88188	528.1	
34	Dibenz(a,h)anthracene	278	17.953	17.944	(1.121)	226002	1.98466	557.0	
35	Benzo(g,h,i)perylene	276	18.556	18.529	(1.159)	671897	5.79863	1627	
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	11.547	11.549	(0.821)	28939	0.36827	103.4	
52	Benzo(e)pyrene	252	15.849	15.840	(0.990)	803754	5.99049	1681	
53	Perylene	252	16.050	16.040	(1.003)	377274	2.99477	840.5	

VTS

8/11/2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36g.d
Lab Smp Id: JQ36G
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12978

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-S3-04-C
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	289236	14.23
8 Acenaphthene-d10	122198	61099	244396	146350	19.76
15 Phenanthrene-d10	181565	90782	363130	226319	24.65
23 Chrysene-d12	143956	71978	287912	191972	33.35
31 Perylene-d12	157395	78698	314790	220413	40.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.03
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.03
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.03
31 Perylene-d12	16.00	15.50	16.50	16.01	0.06

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

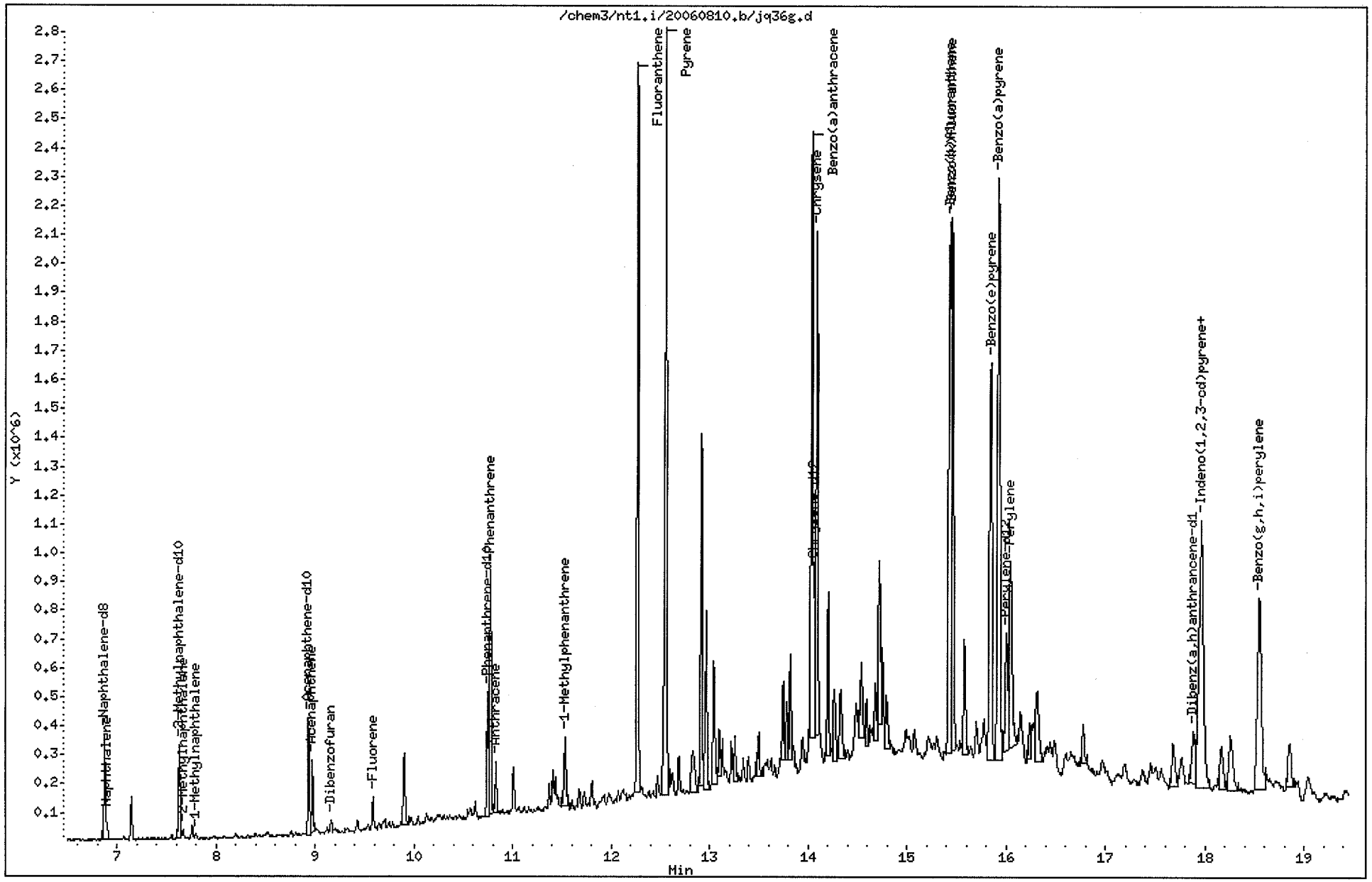
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36G
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12978

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-04-C
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	841.9	497.6	59.11	32-97
$ 32 Dibenz(a,h)anthran	841.9	528.1	62.73	21-105

Data File: /chem3/nt1.i/20060810.b/jq36g.d
Date : 10-AUG-2006 17:56
Client ID: T4-S3-04-C
Sample Info: JQ36G
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0343

Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

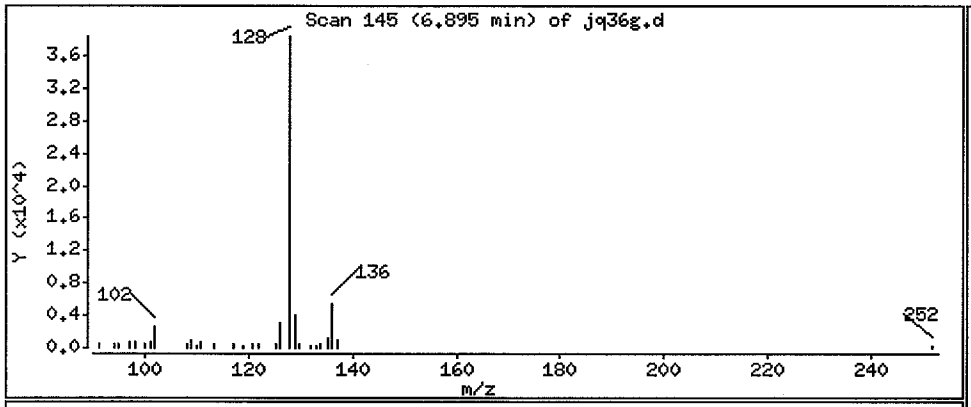
Operator: VTS

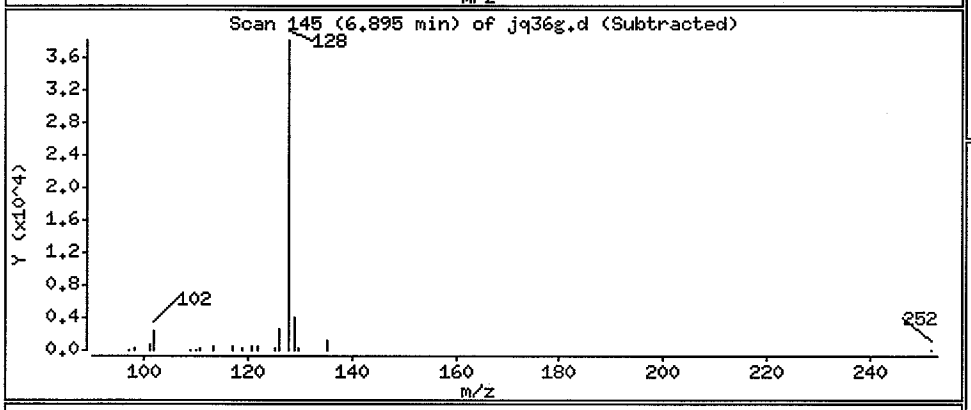
Column phase: ZB-5

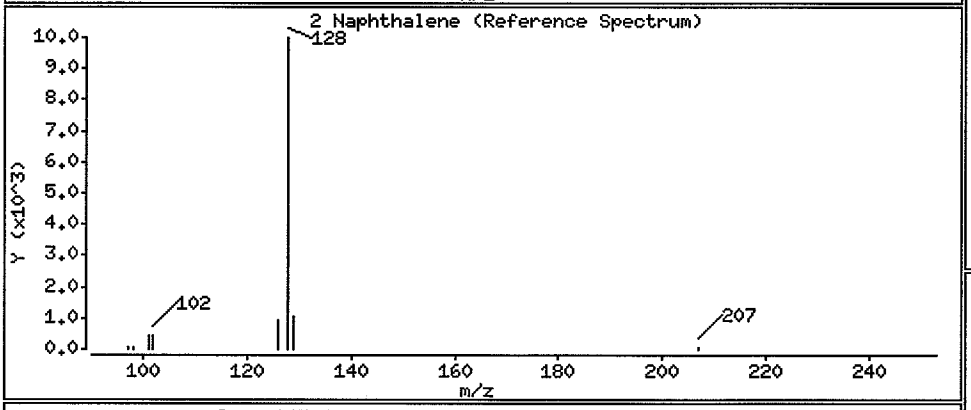
Column diameter: 0.25

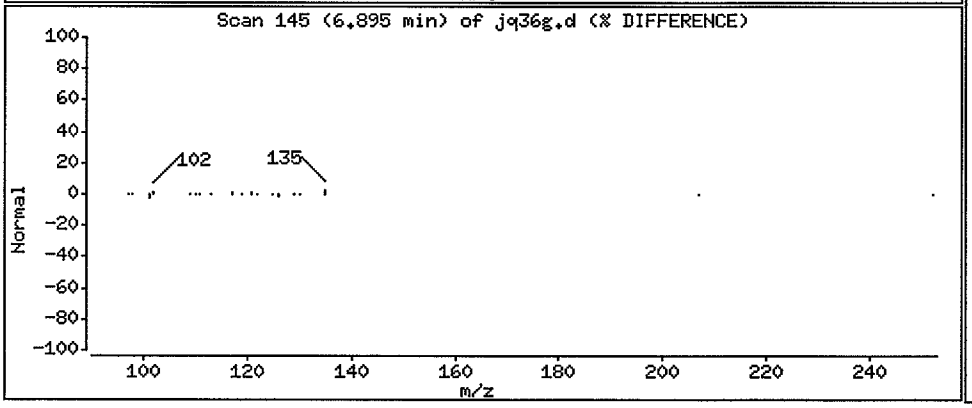
2 Naphthalene

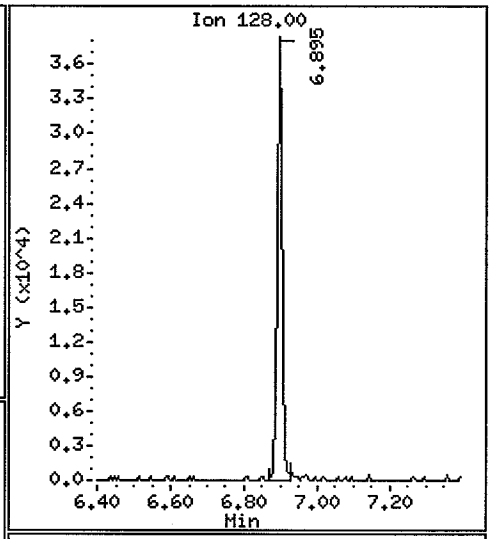
Concentration: 75.68 ug/kg

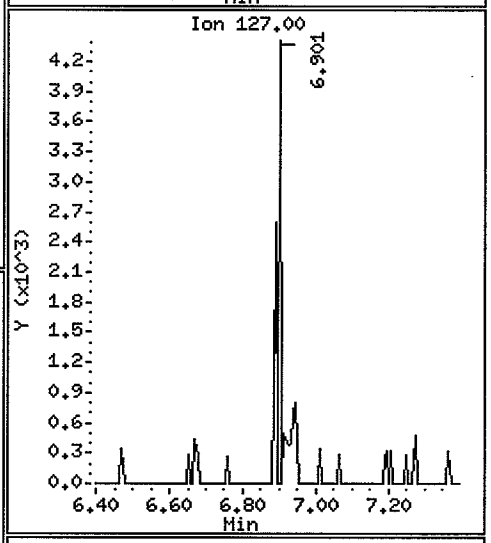


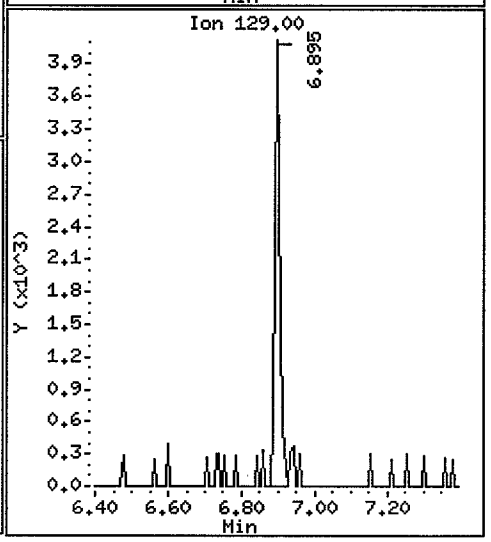












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

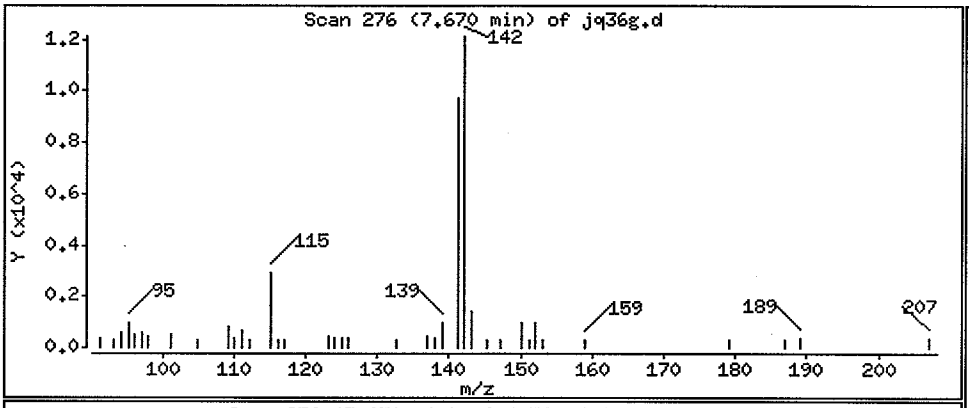
Operator: VTS

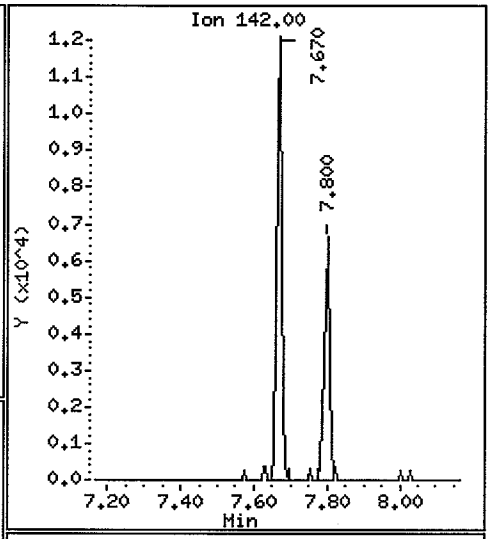
Column phase: ZB-5

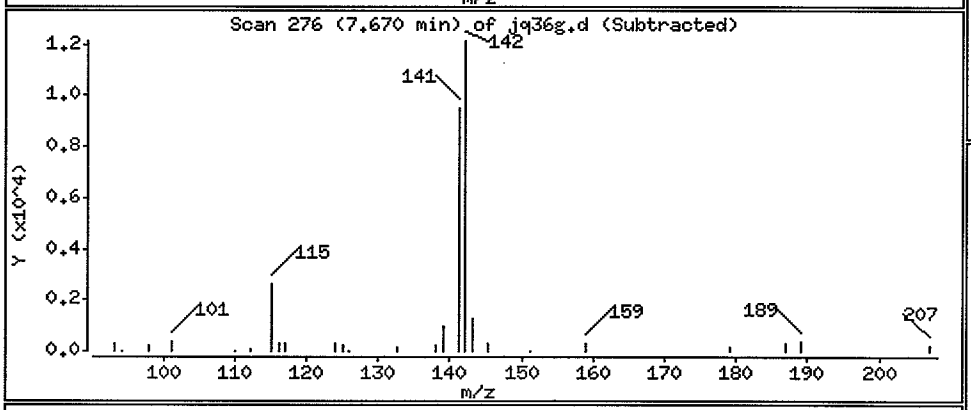
Column diameter: 0.25

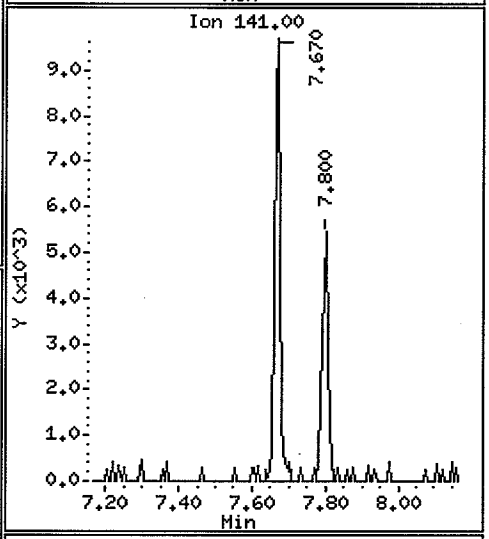
4 2-Methylnaphthalene

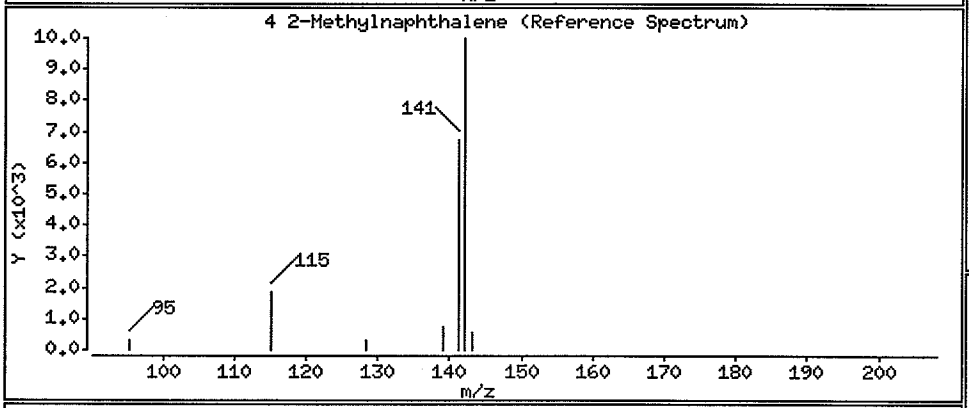
Concentration: 40.84 ug/kg

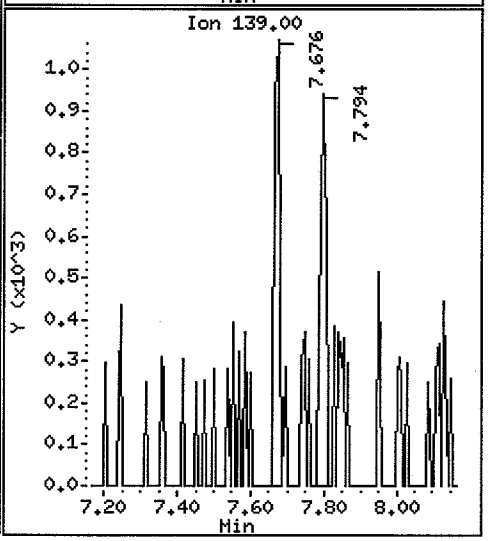


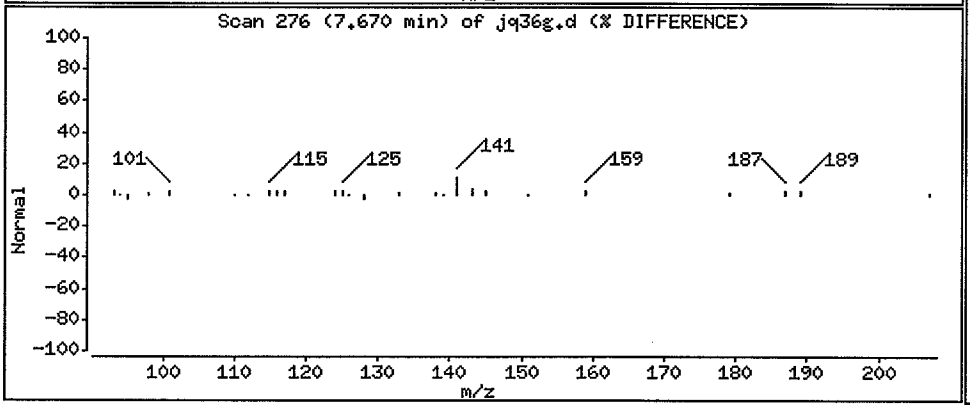












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

Operator: VTS

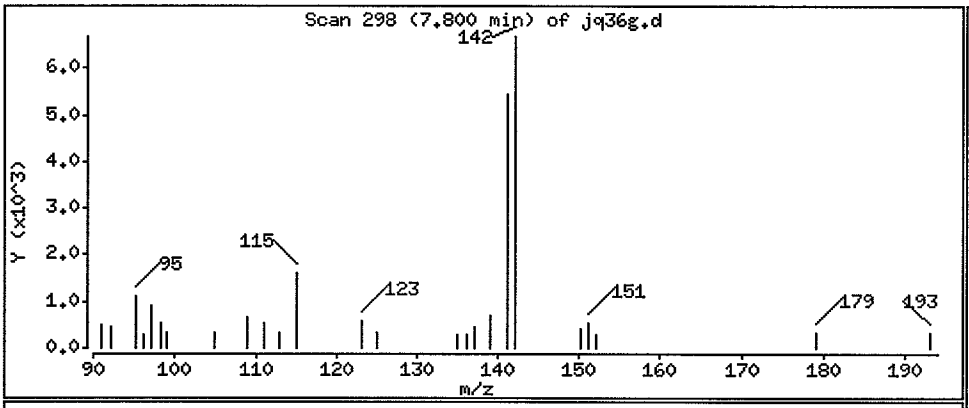
Column phase: ZB-5

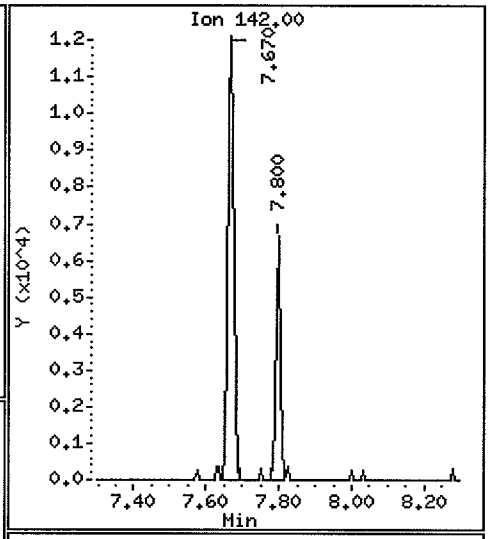
Column diameter: 0.25

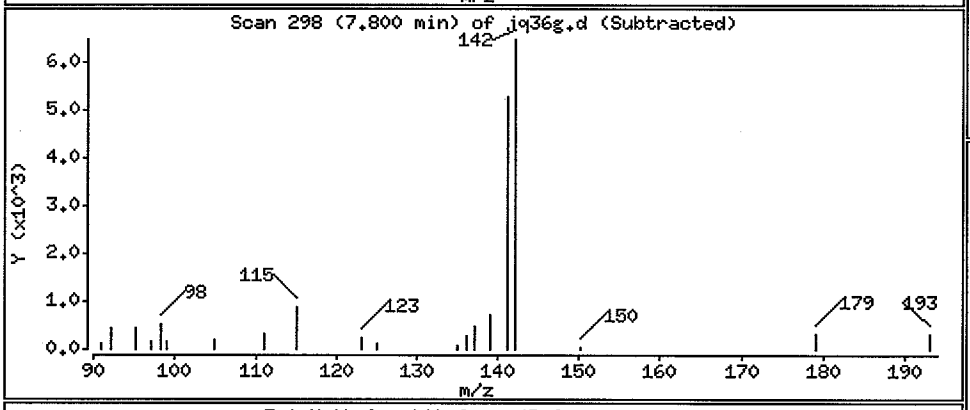
5 1-Methylnaphthalene

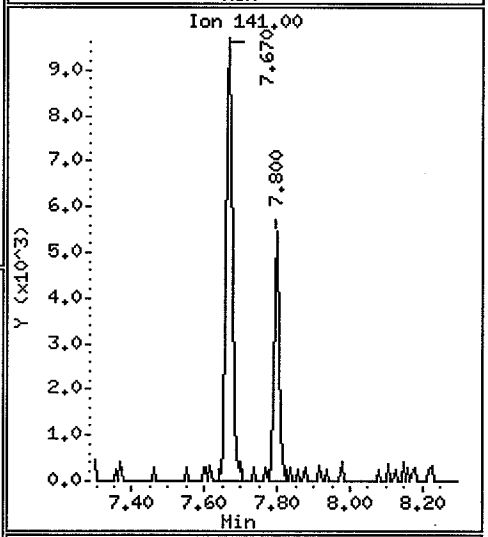
Concentration: 19.36 ug/kg

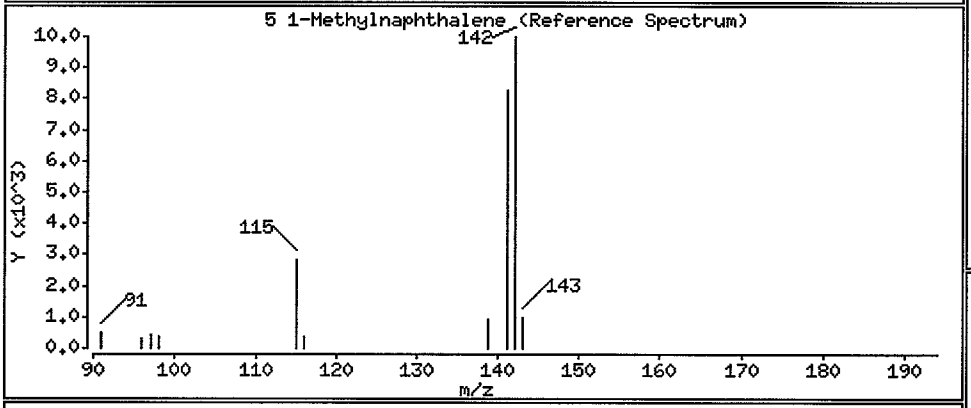
JCR

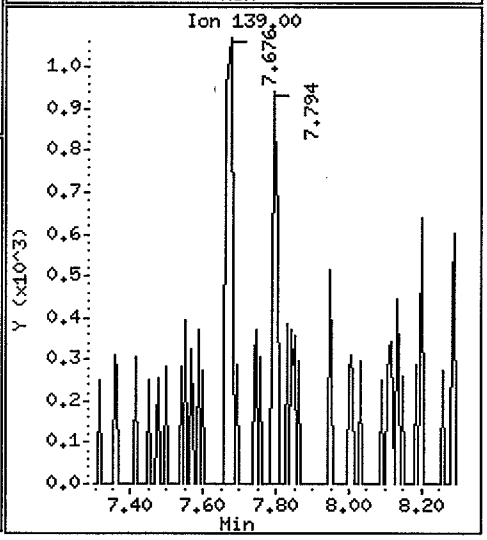


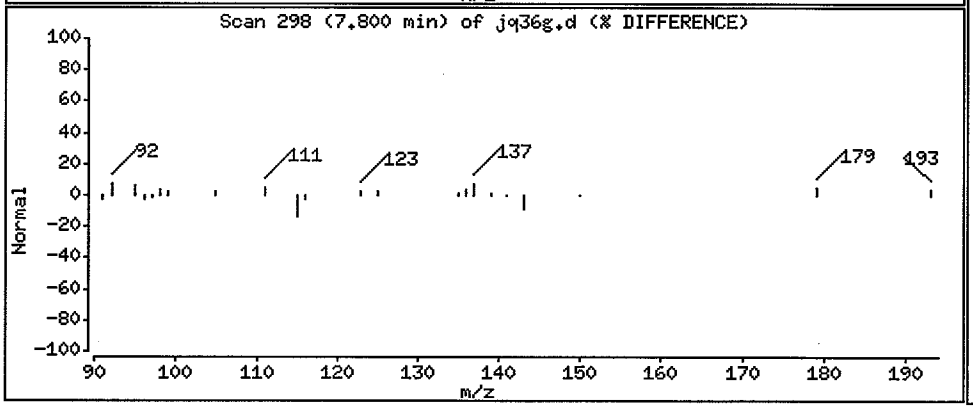












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

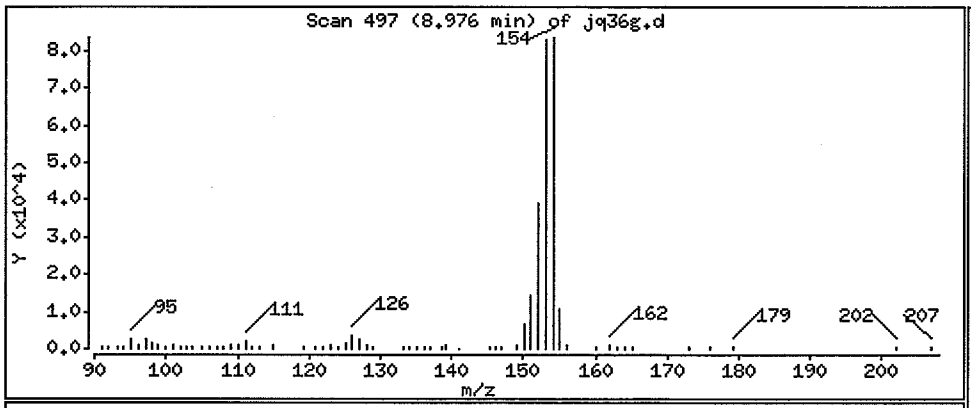
Operator: VTS

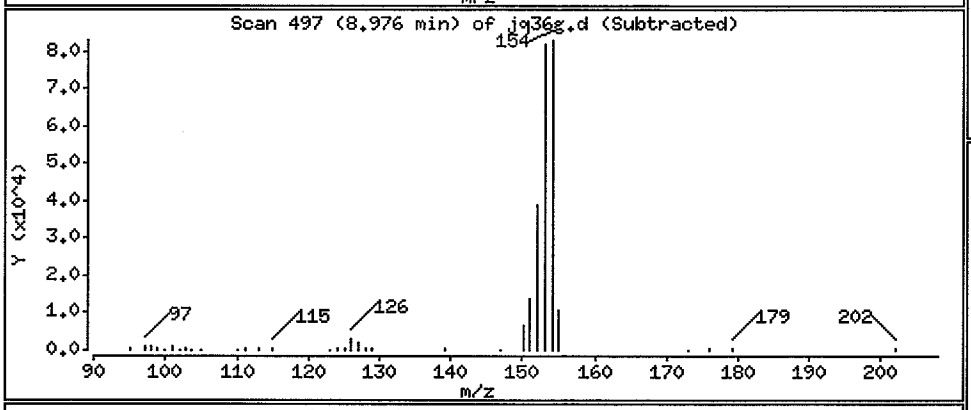
Column phase: ZB-5

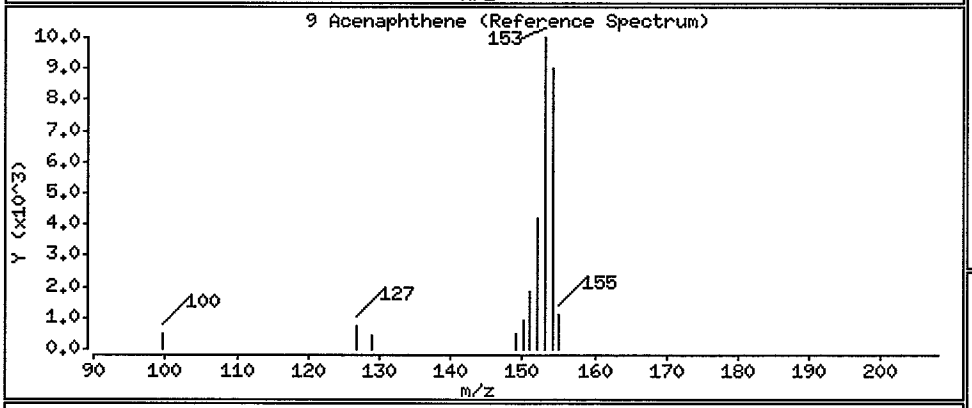
Column diameter: 0.25

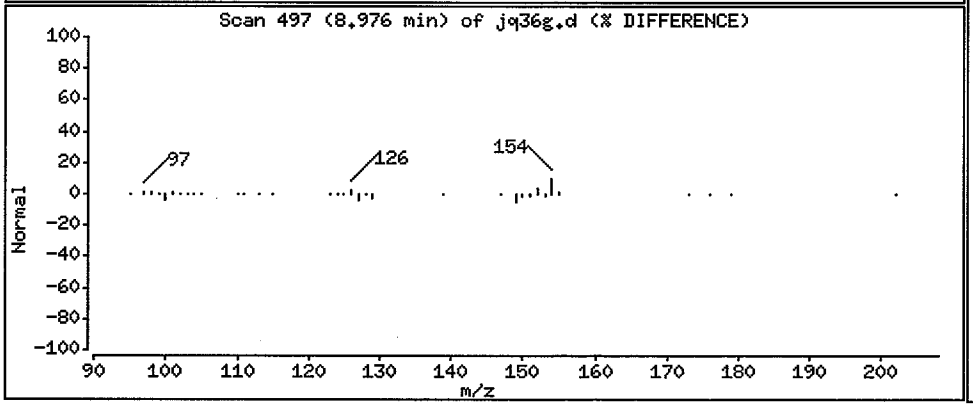
9 Acenaphthene

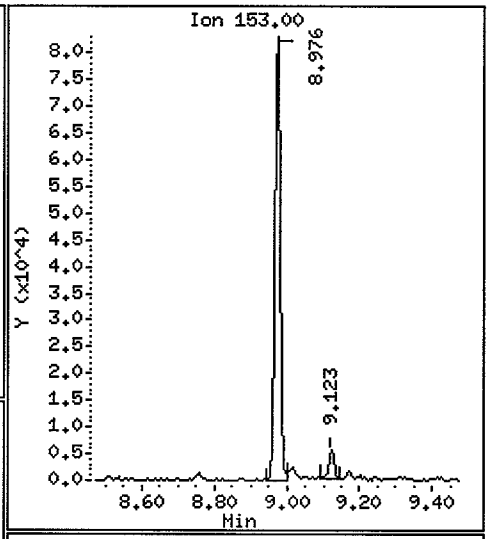
Concentration: 368.0 ug/kg

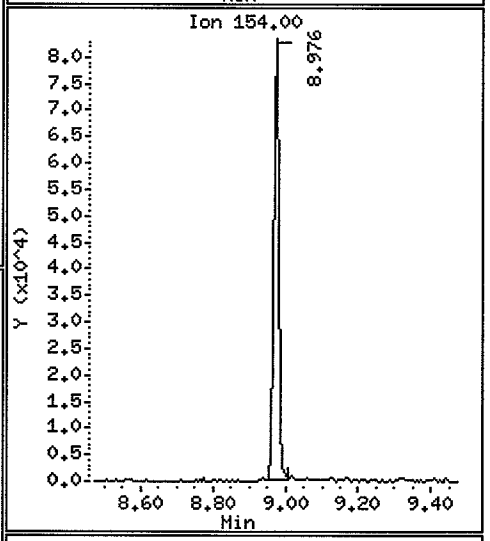


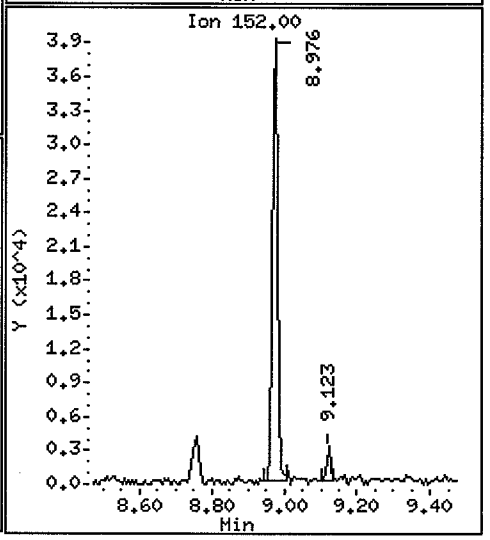












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

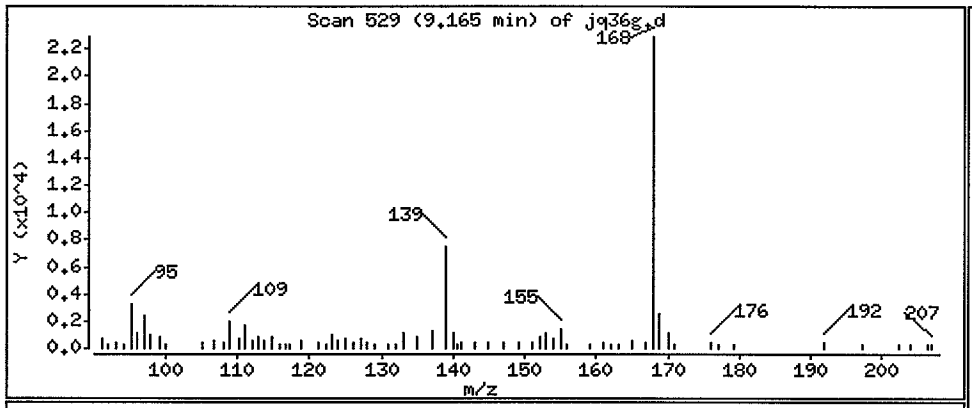
Operator: VTS

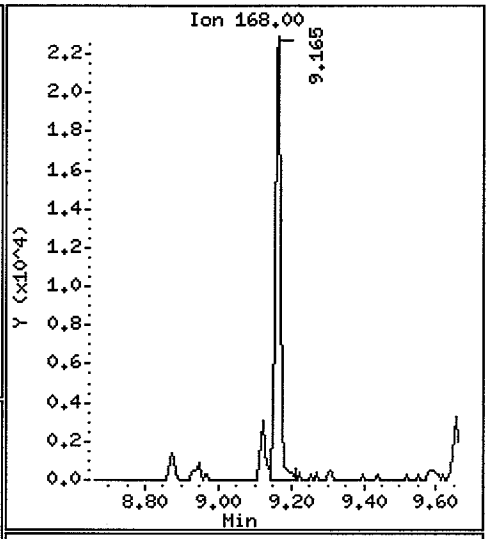
Column phase: ZB-5

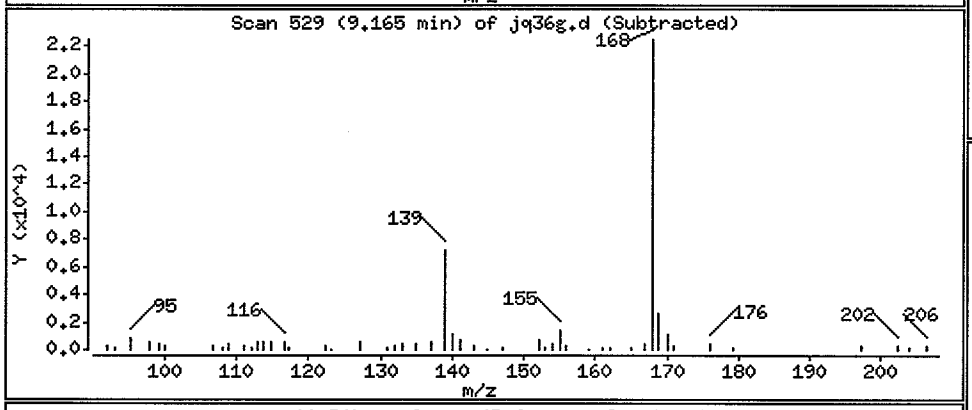
Column diameter: 0.25

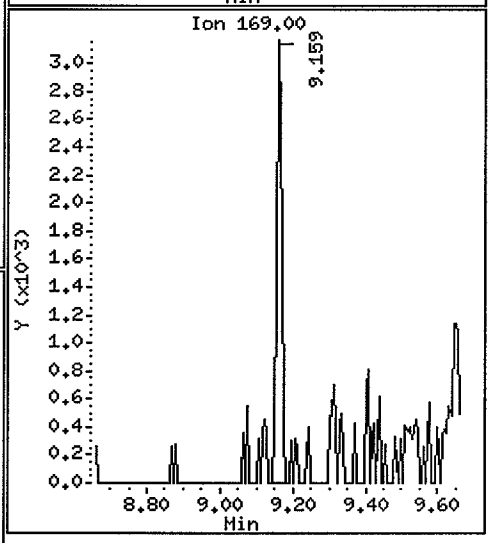
10 Dibenzofuran

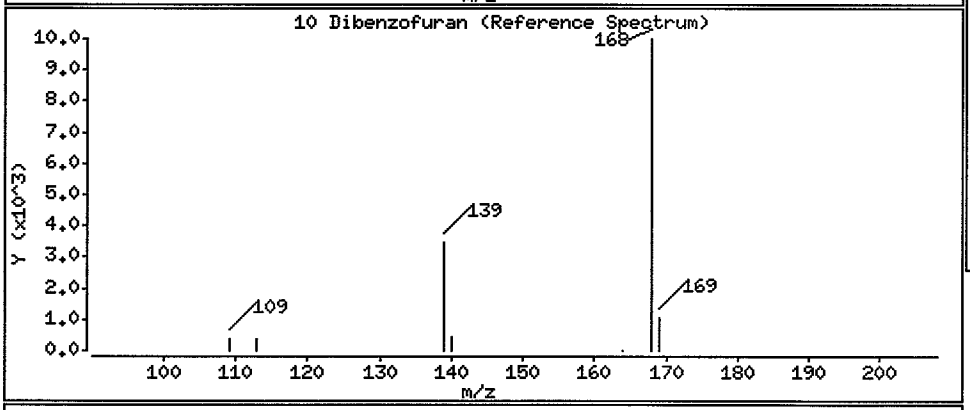
Concentration: 68.72 ug/kg

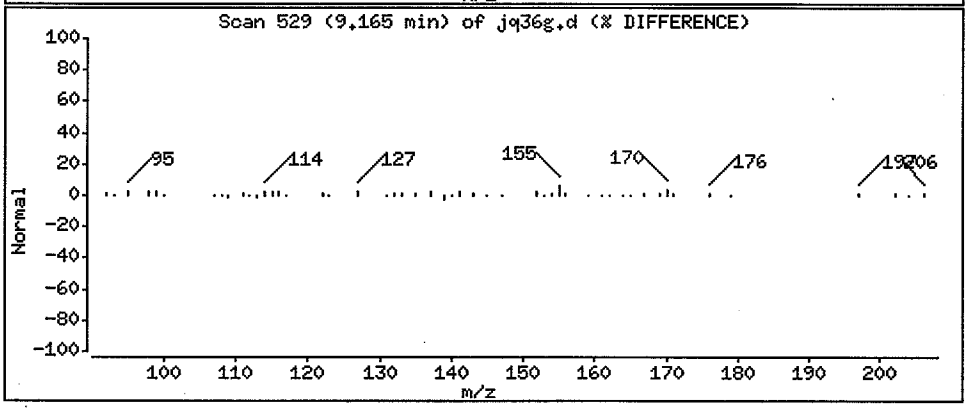












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

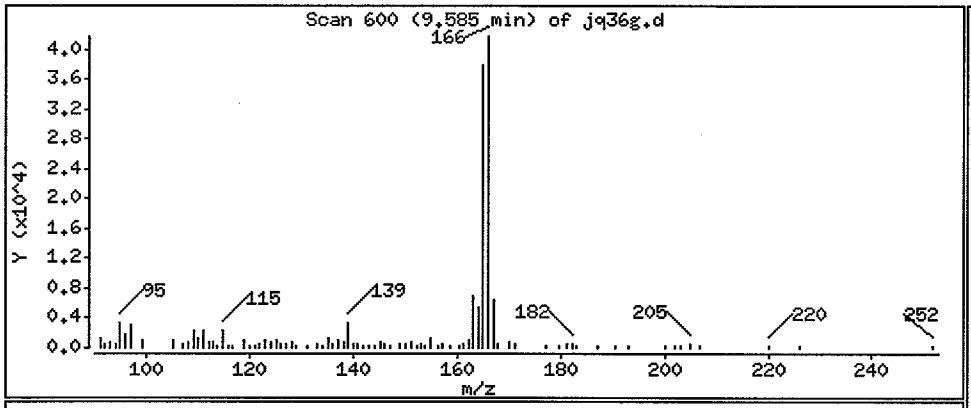
Operator: VTS

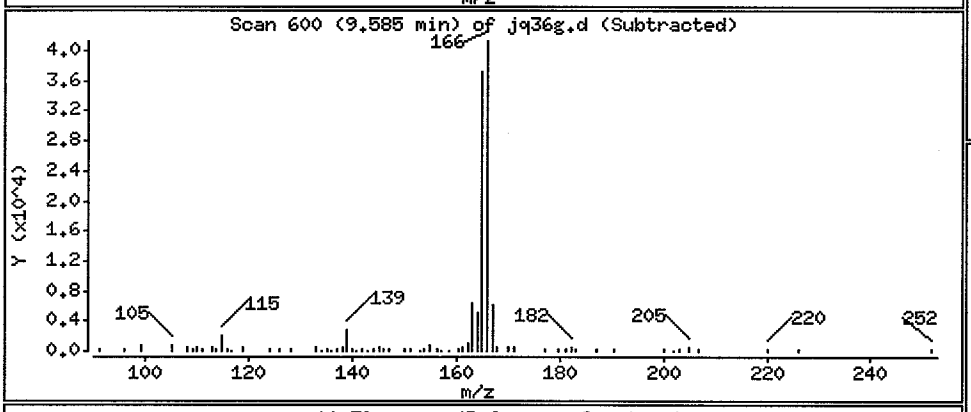
Column phase: ZB-5

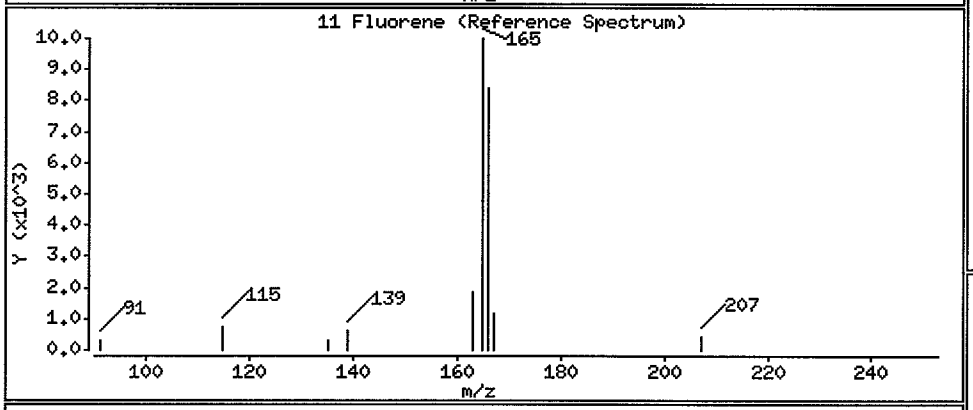
Column diameter: 0.25

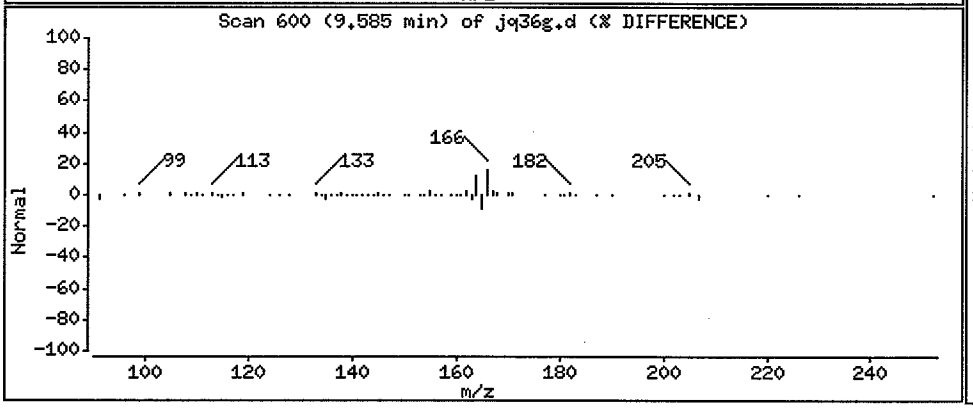
11 Fluorene

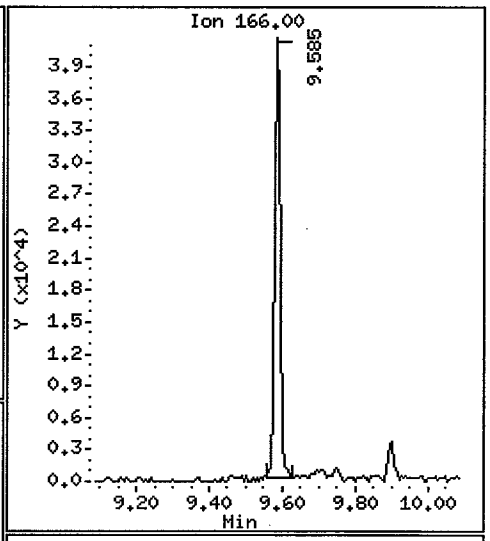
Concentration: 161.0 ug/kg

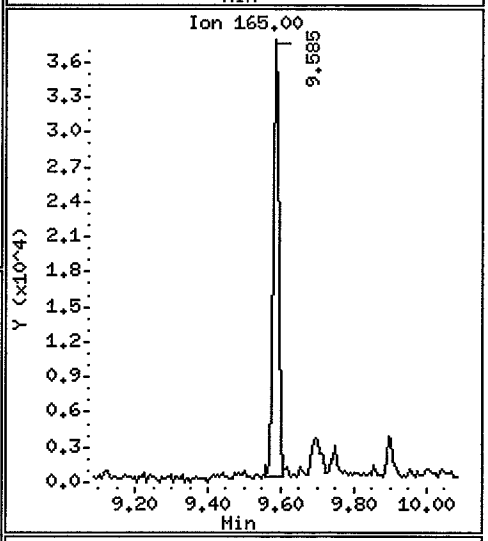


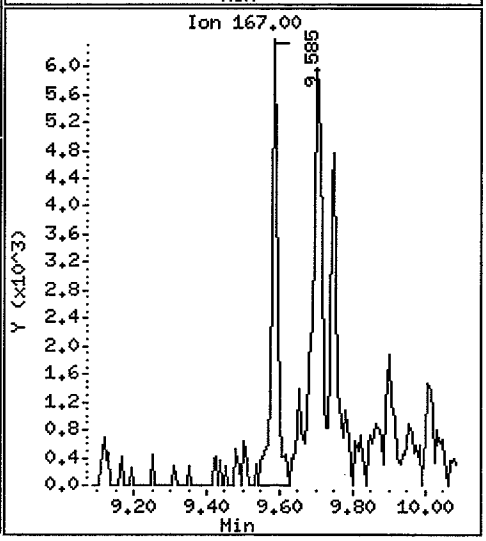












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

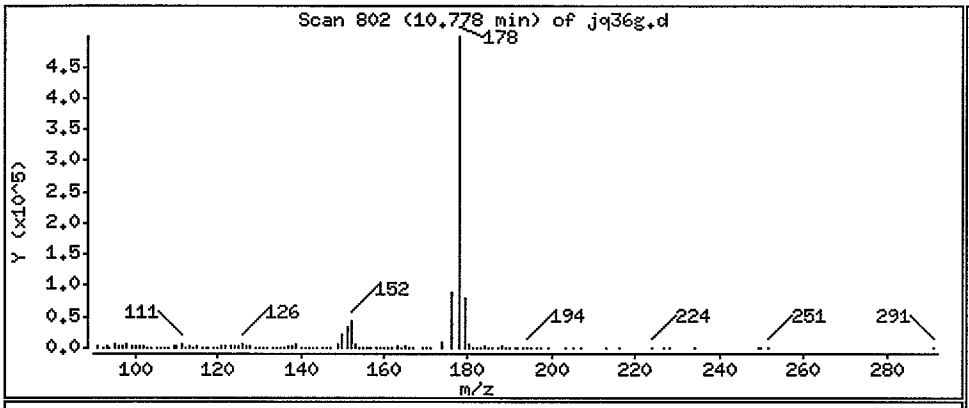
Operator: VTS

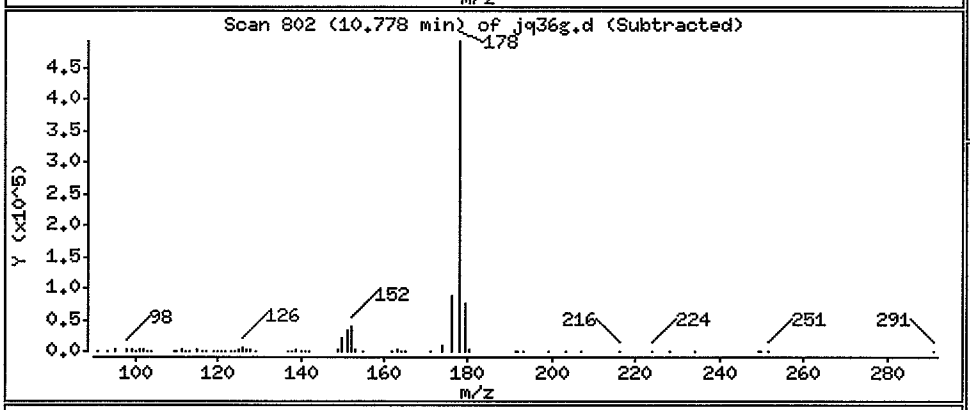
Column phase: ZB-5

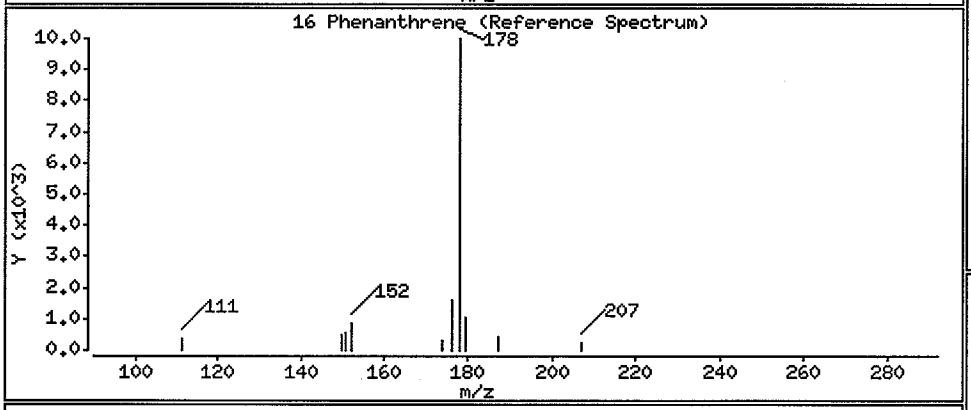
Column diameter: 0.25

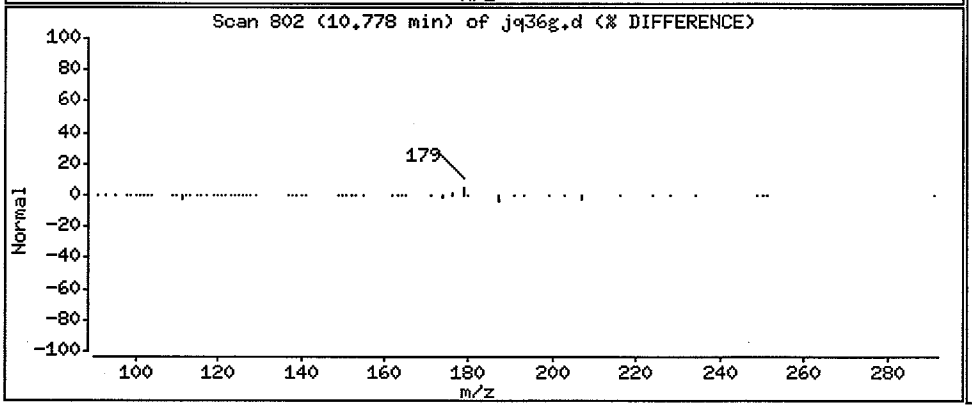
16 Phenanthrene

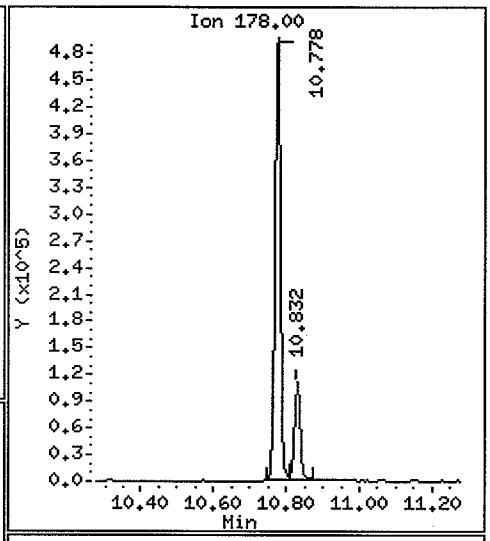
Concentration: 1403 ug/kg

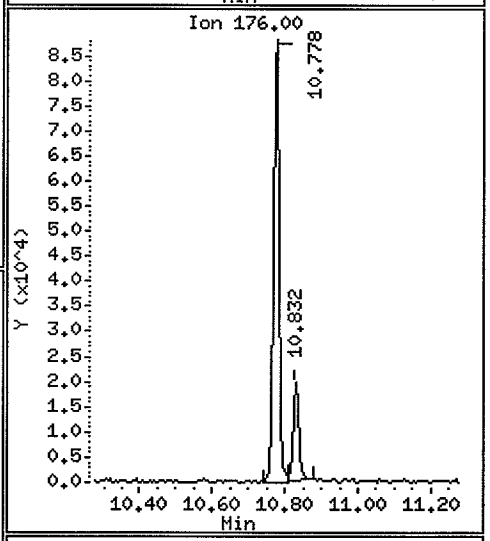


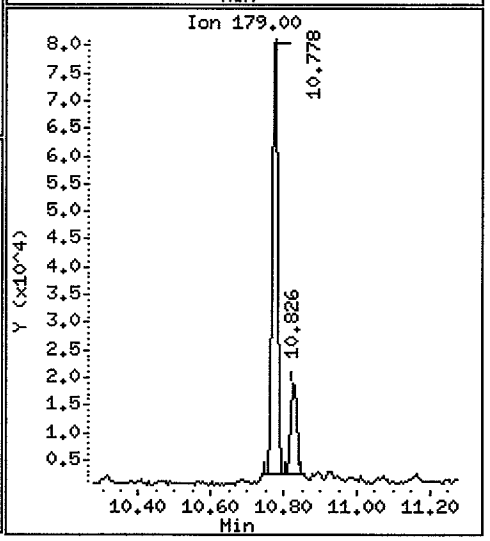












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

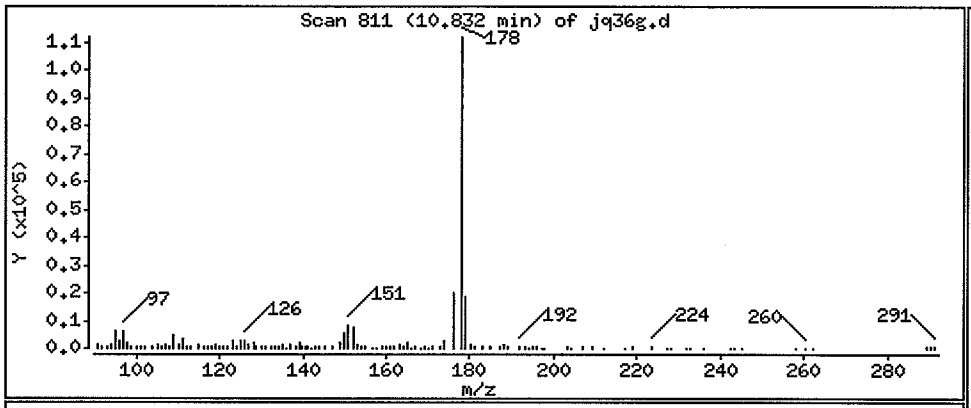
Operator: VTS

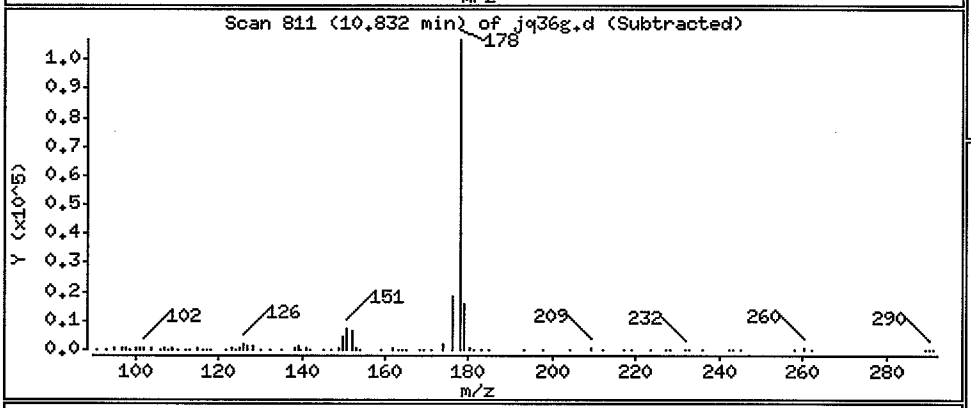
Column phase: ZB-5

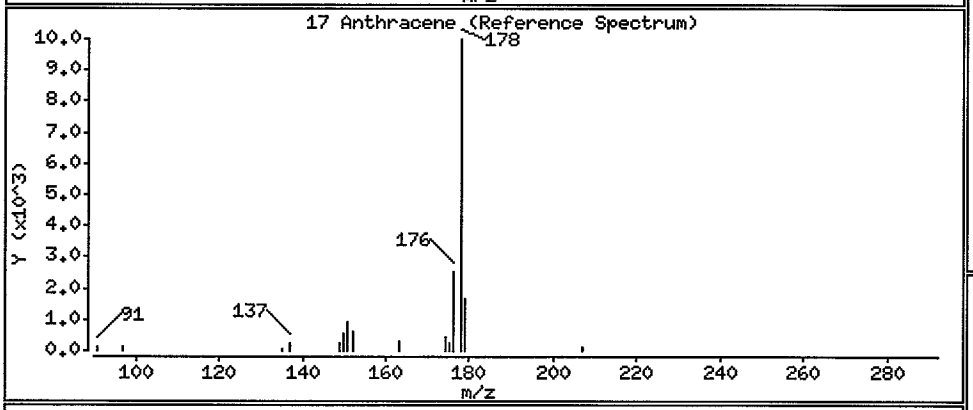
Column diameter: 0.25

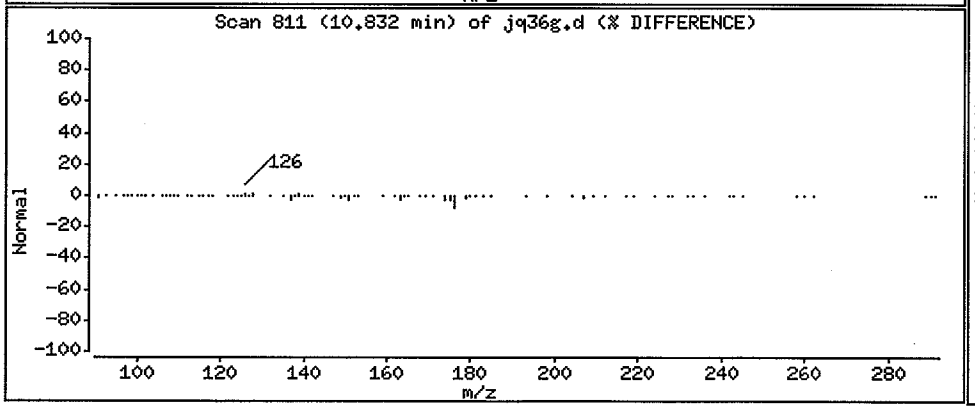
17 Anthracene

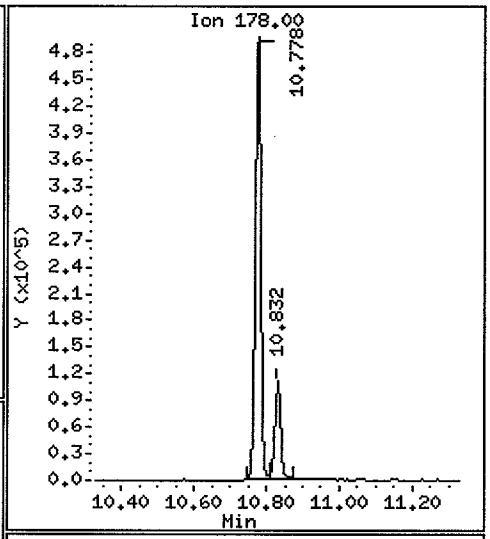
Concentration: 313.4 ug/kg

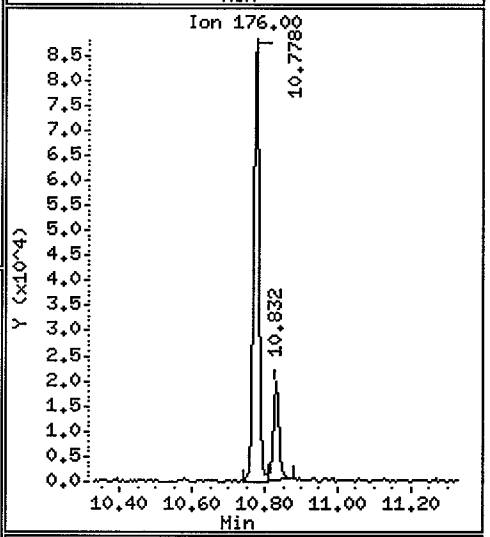


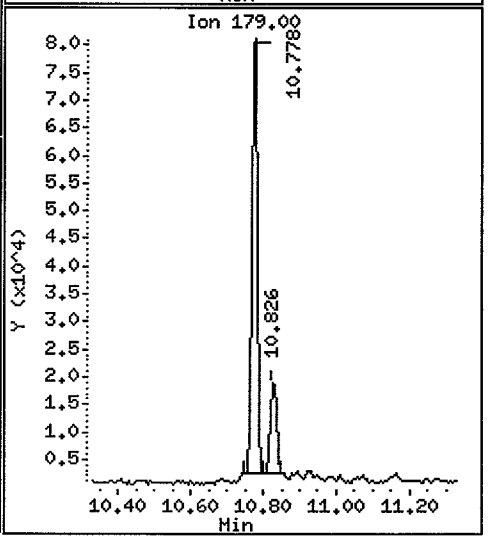












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

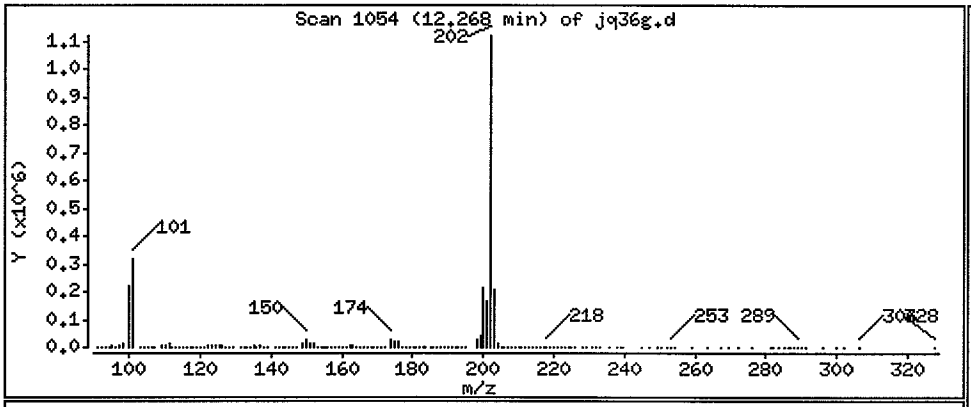
Operator: VTS

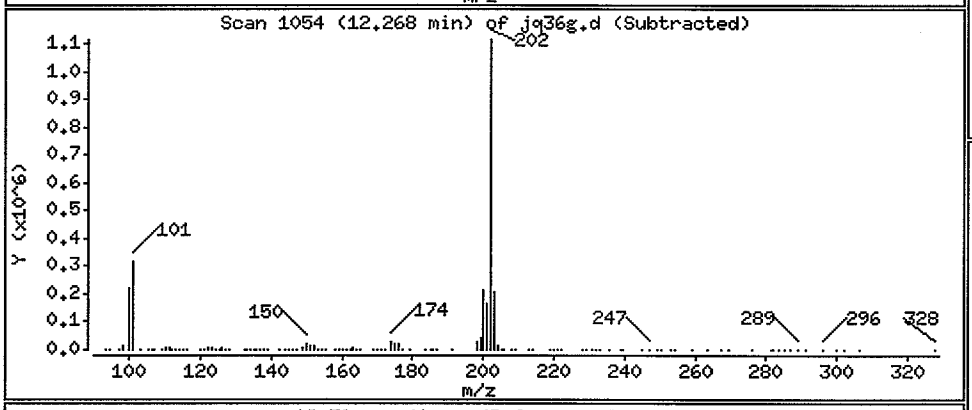
Column phase: ZB-5

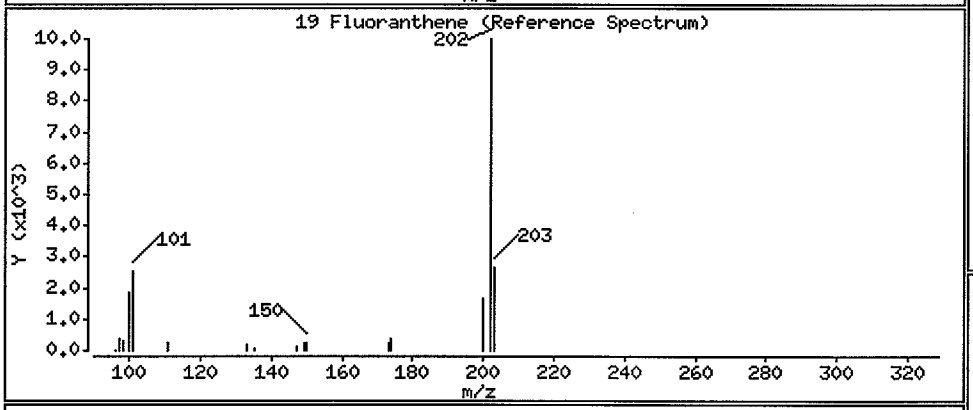
Column diameter: 0.25

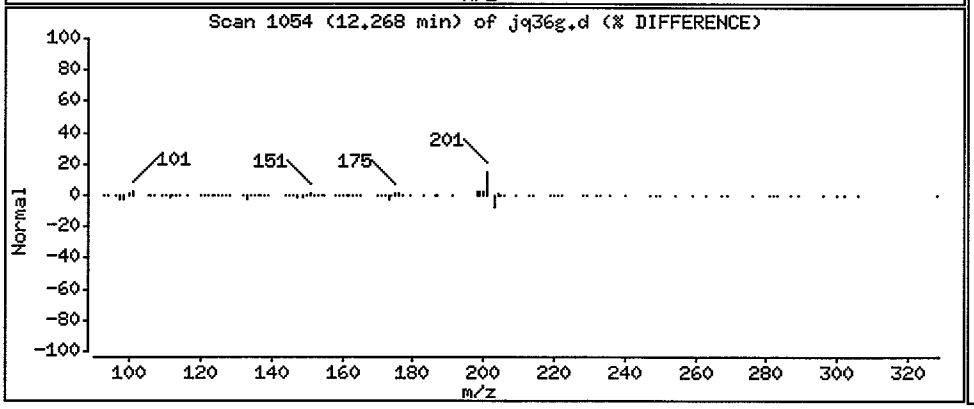
19 Fluoranthene

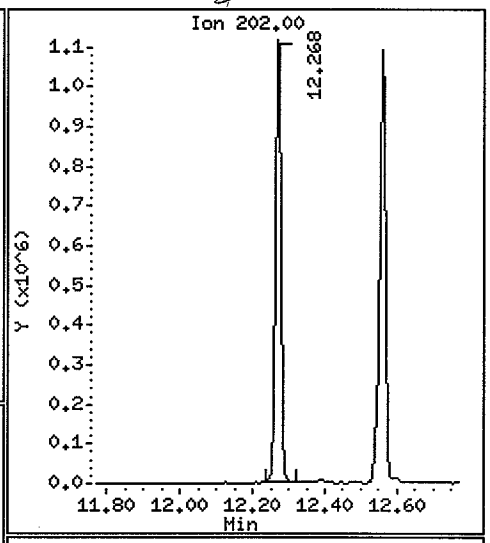
Concentration: 3174 ug/kg

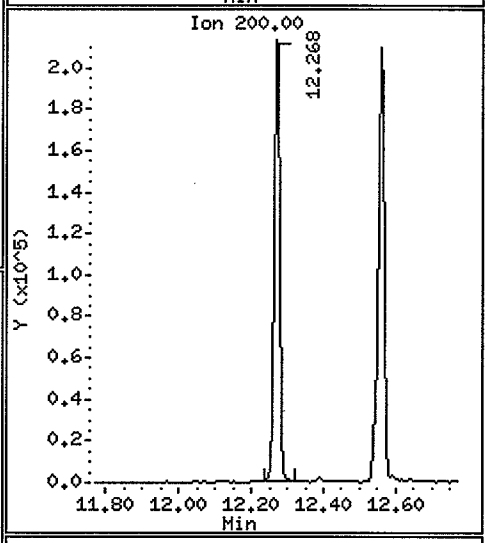


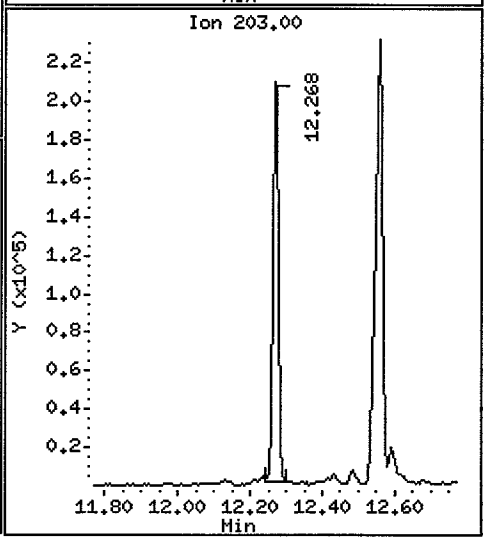












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

Operator: VTS

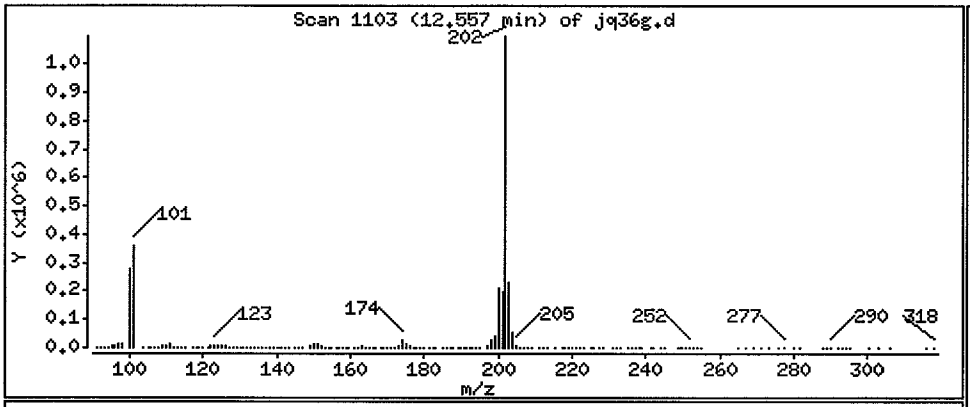
Column phase: ZB-5

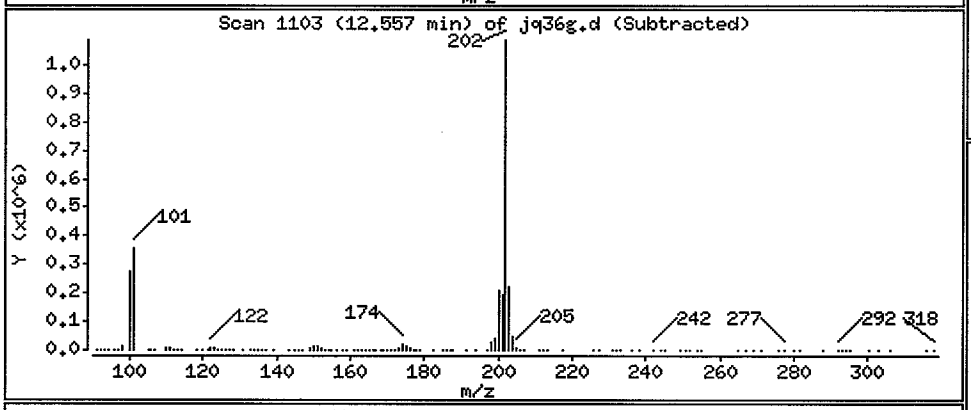
Column diameter: 0.25

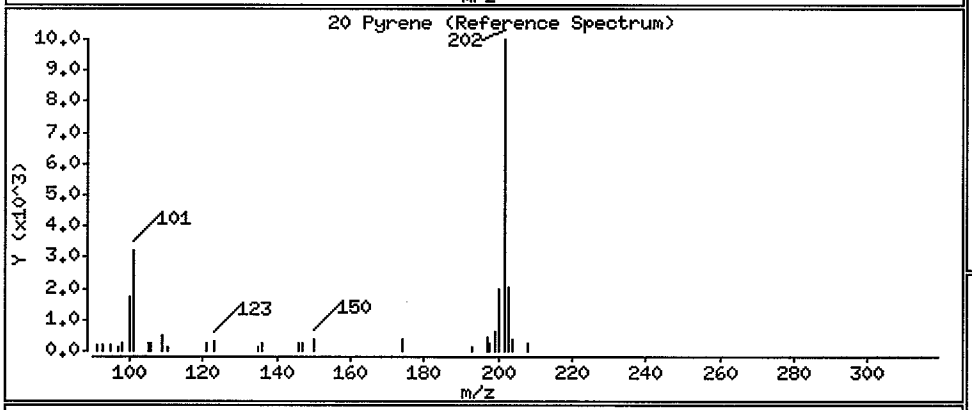
20 Pyrene

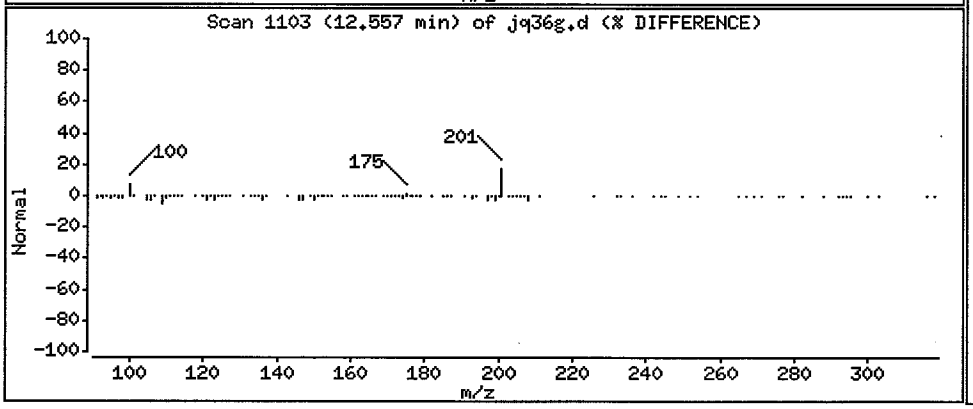
Concentration: 3002 ug/kg

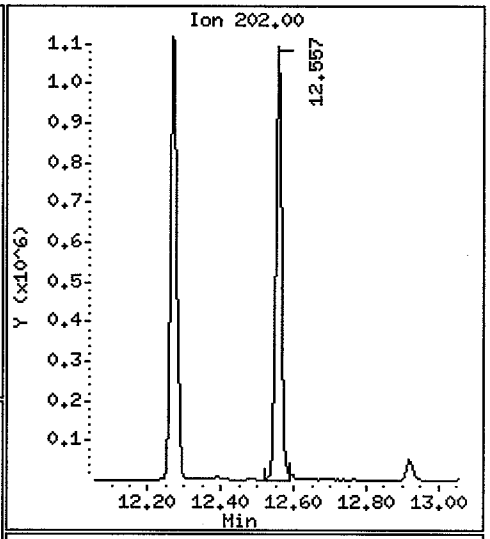
E

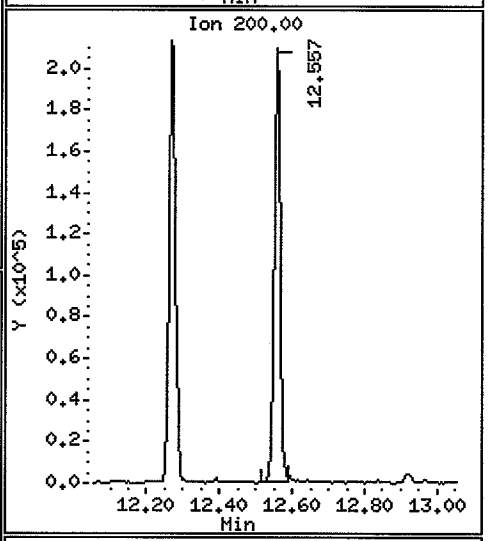


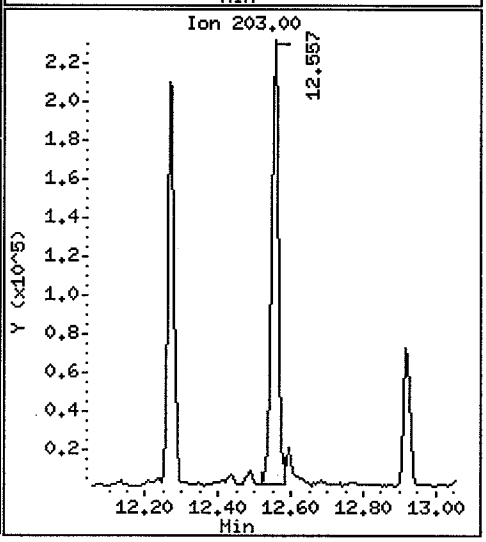












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

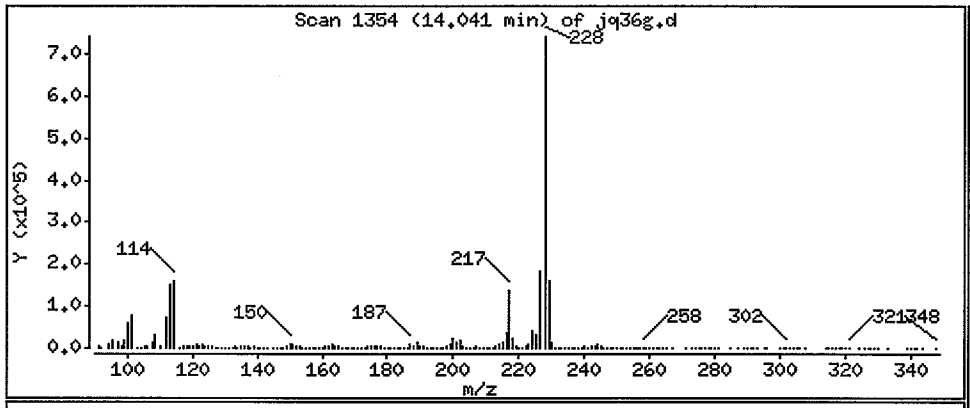
Operator: VTS

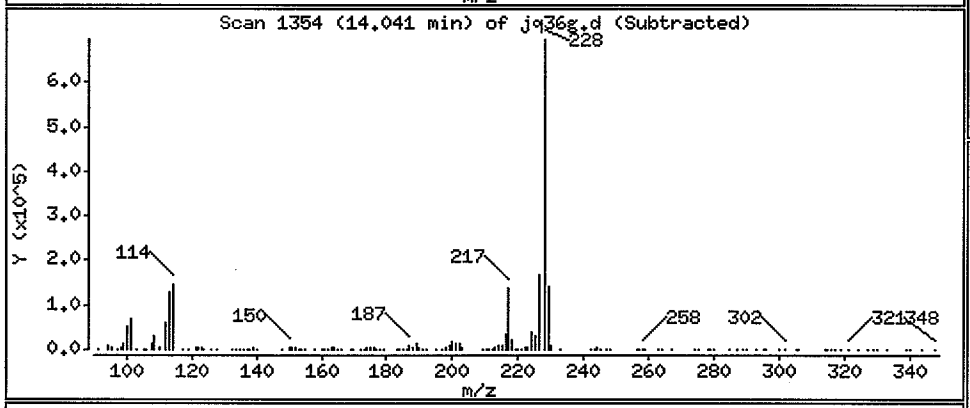
Column phase: ZB-5

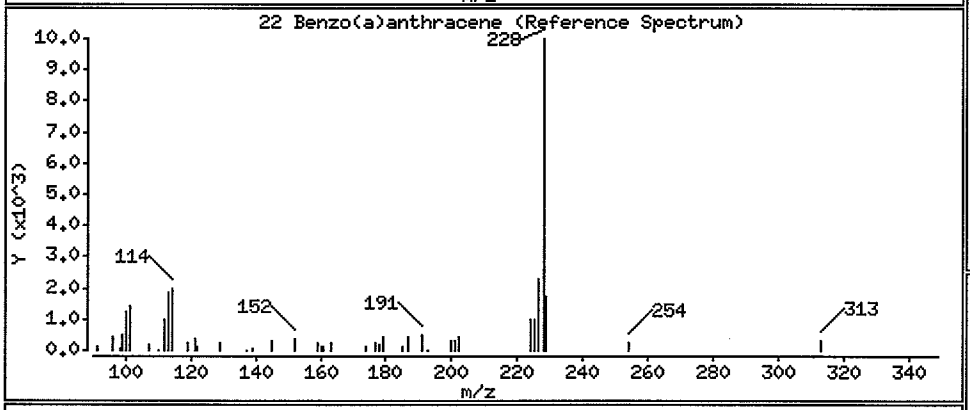
Column diameter: 0.25

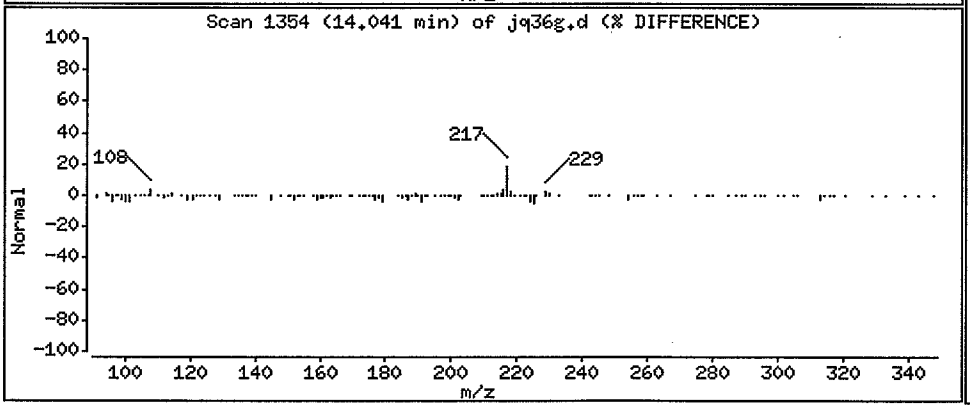
22 Benzo(a)anthracene

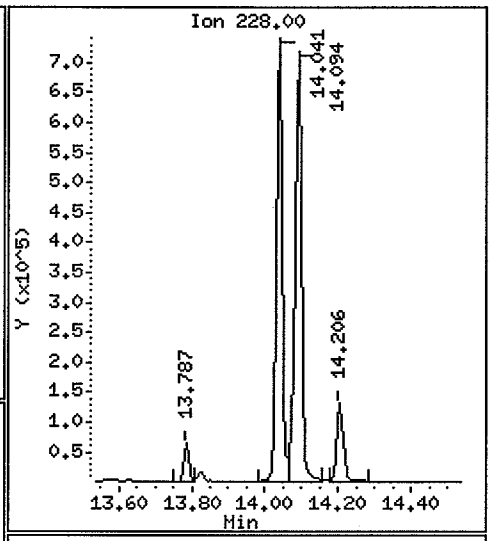
Concentration: 2153 ug/kg

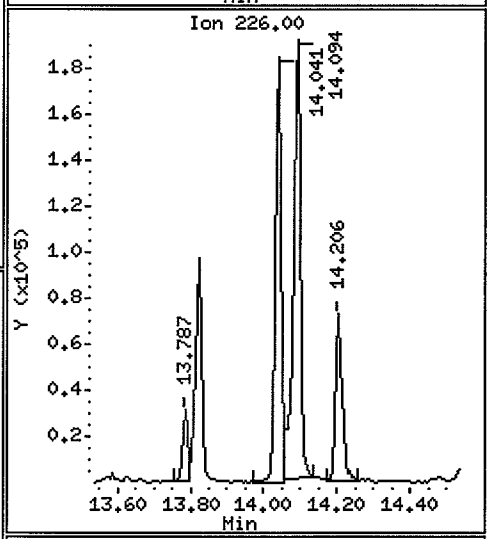


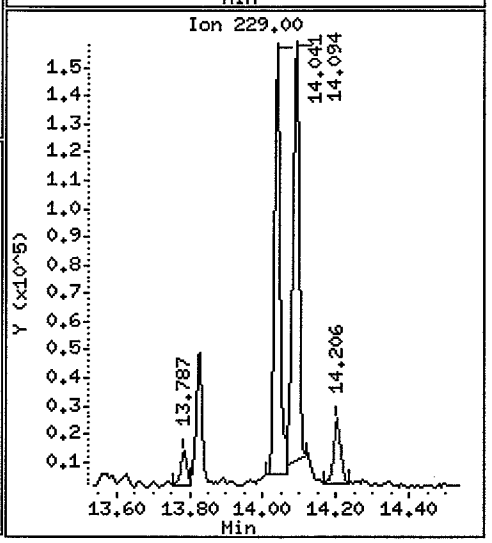












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

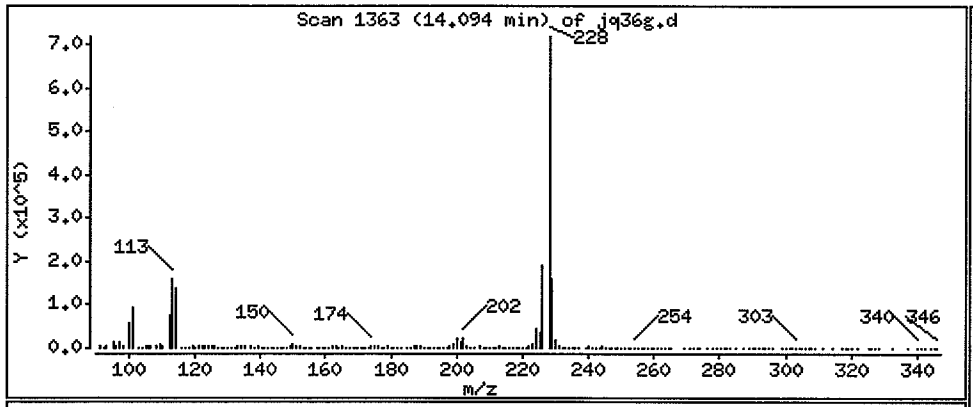
Operator: VTS

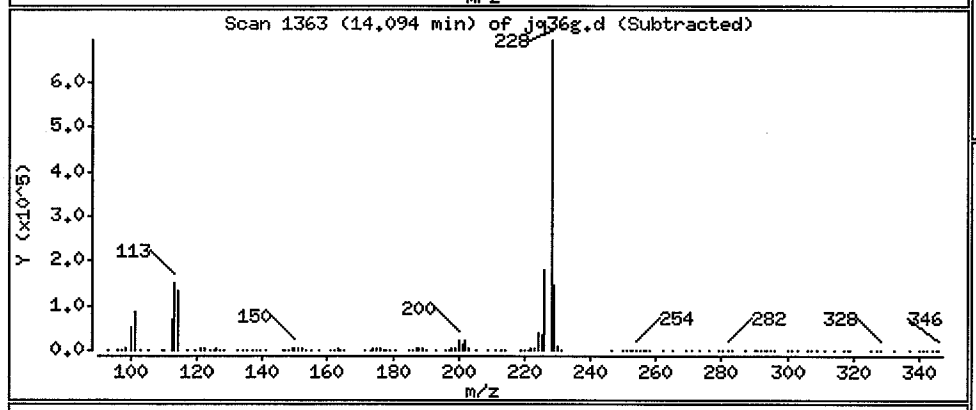
Column phase: ZB-5

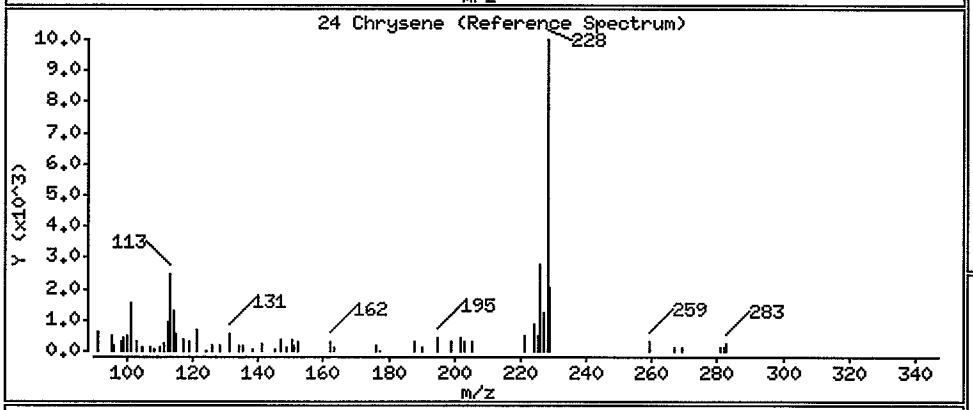
Column diameter: 0.25

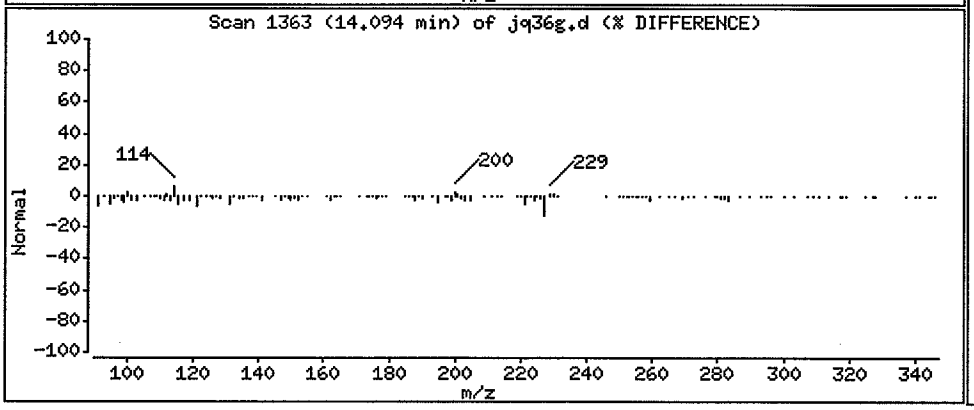
24 Chrysene

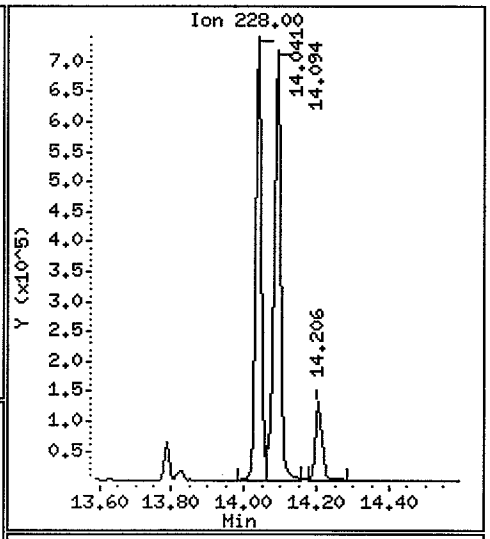
Concentration: 2600 ug/kg

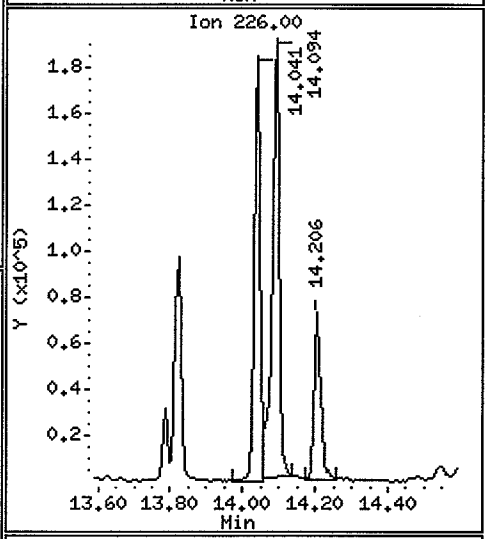


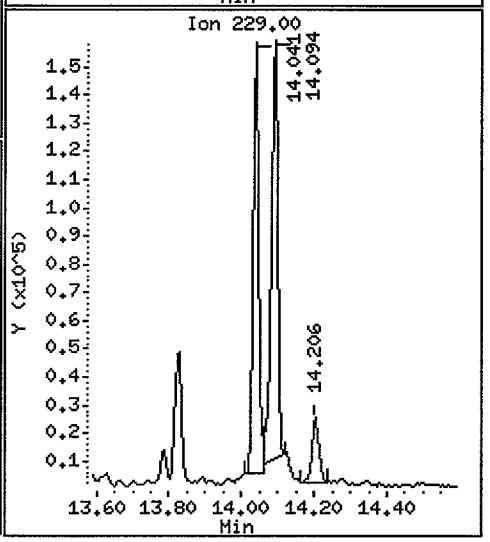












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

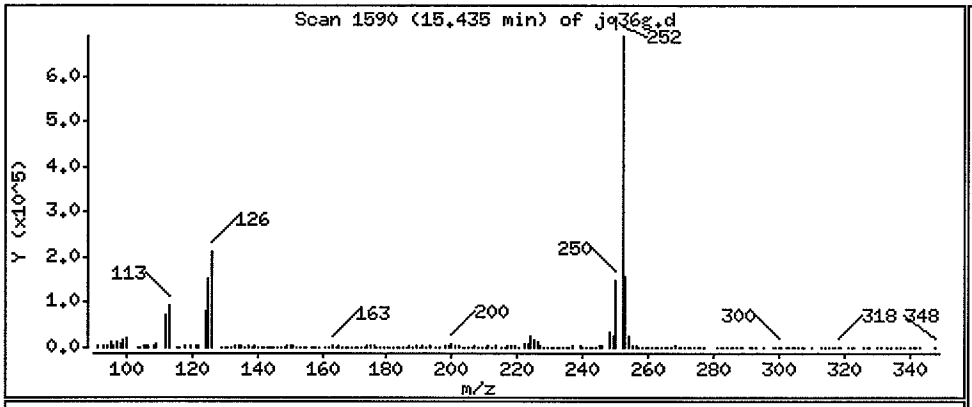
Operator: VTS

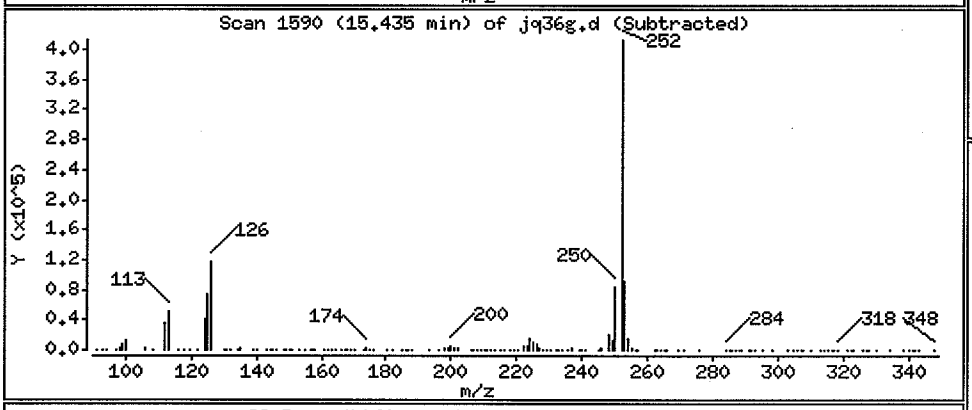
Column phase: ZB-5

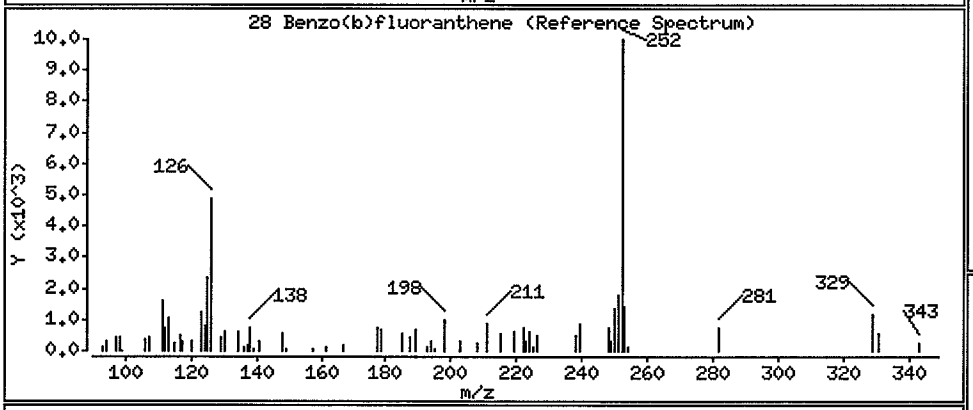
Column diameter: 0.25

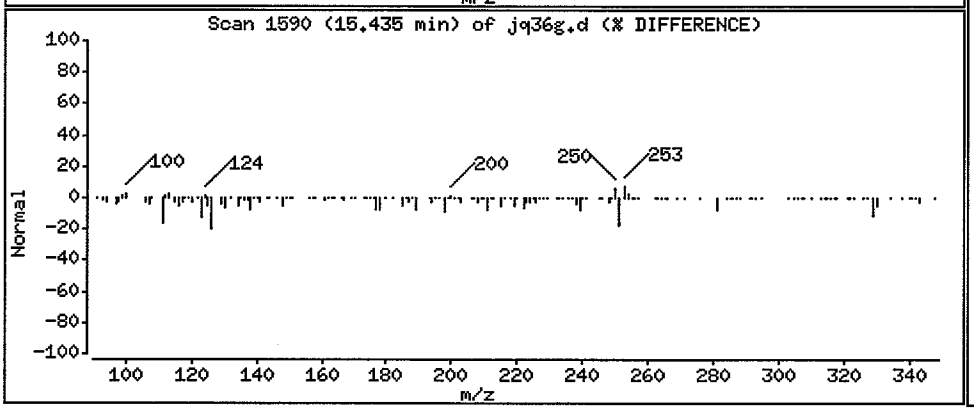
28 Benzo(b)fluoranthene

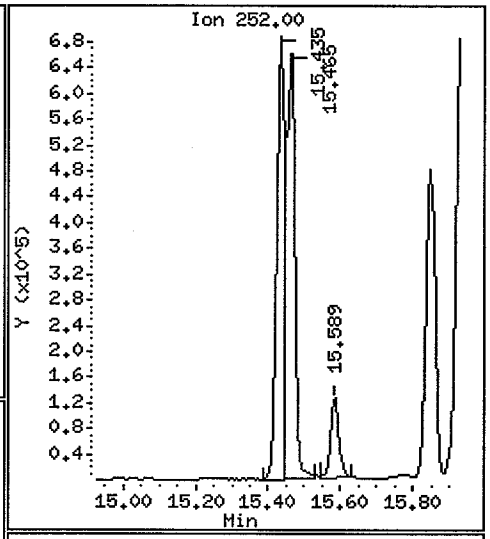
Concentration: 2529 ug/kg

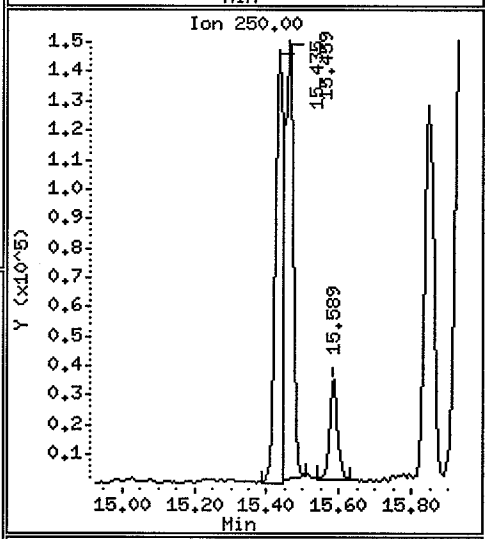


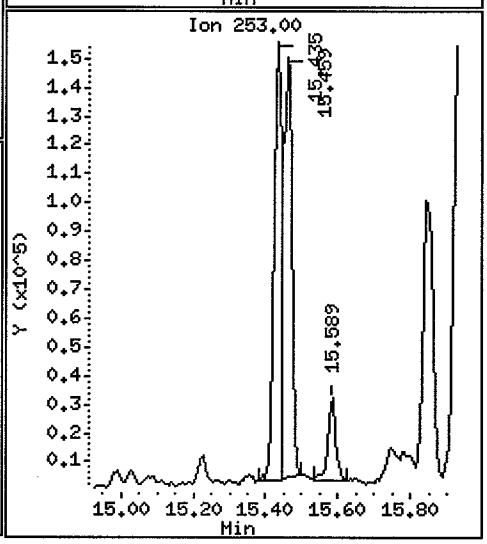












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

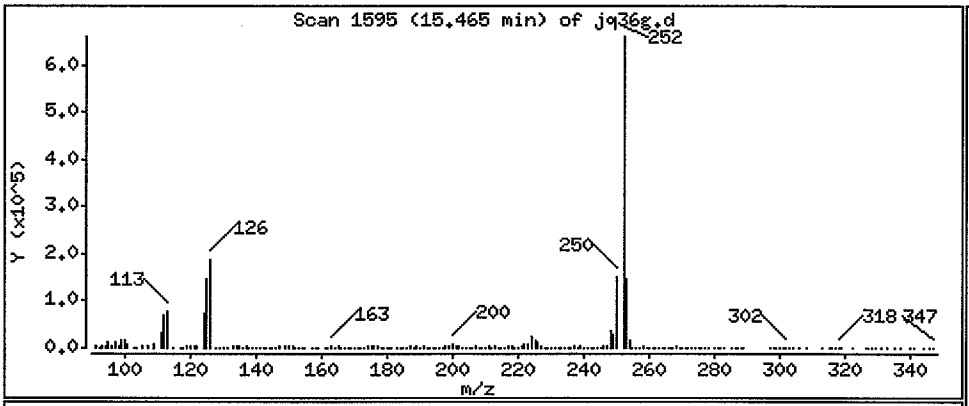
Operator: VTS

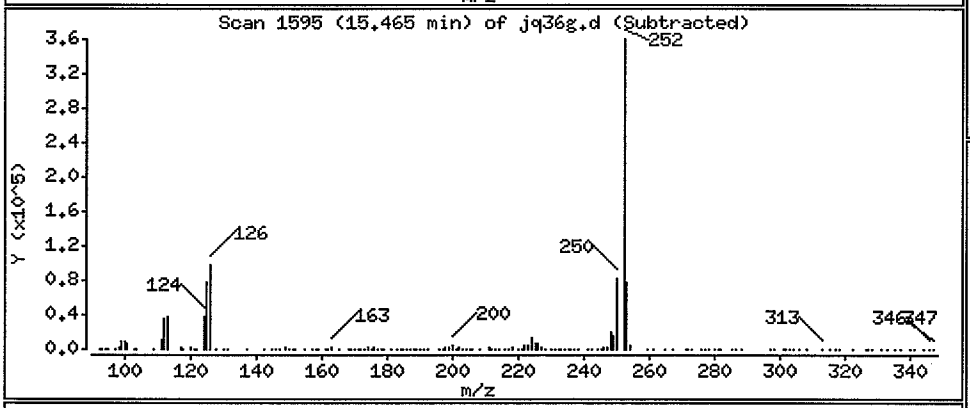
Column phase: ZB-5

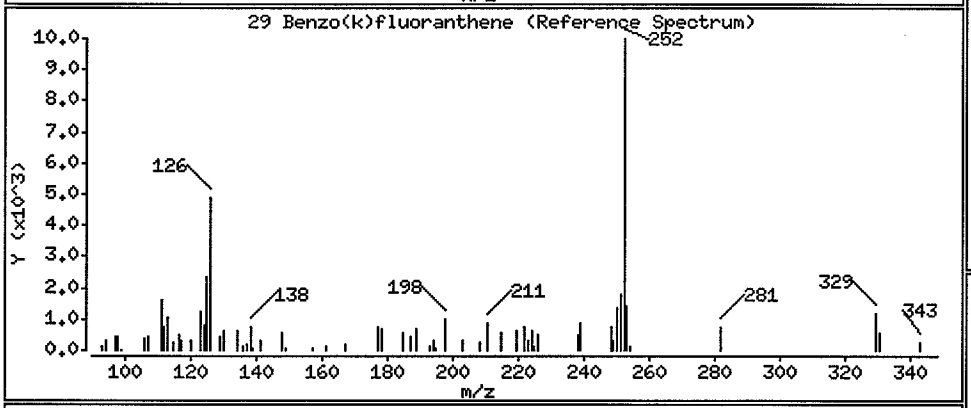
Column diameter: 0.25

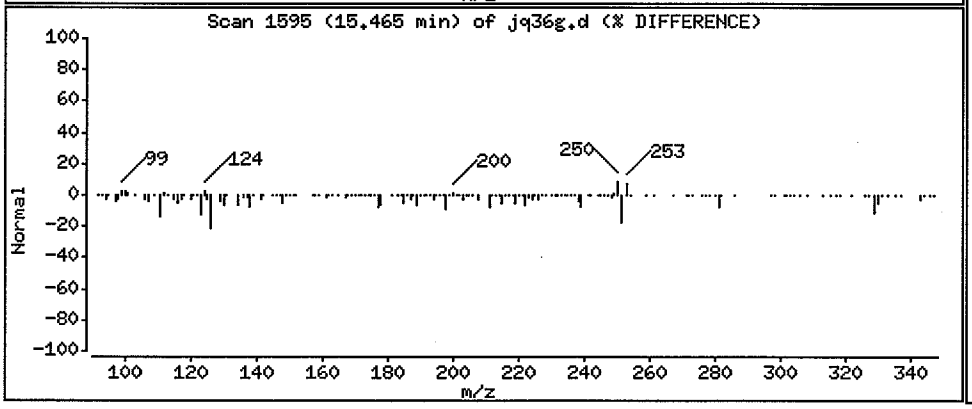
29 Benzo(k)fluoranthene

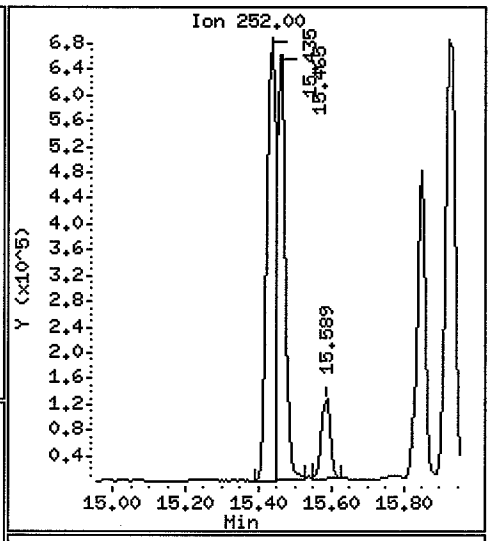
Concentration: 2443 ug/kg

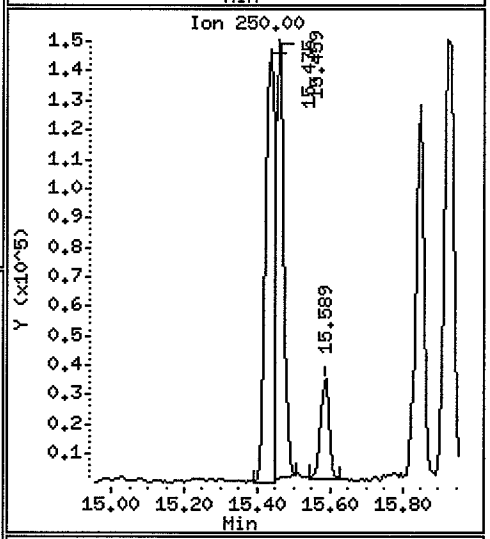


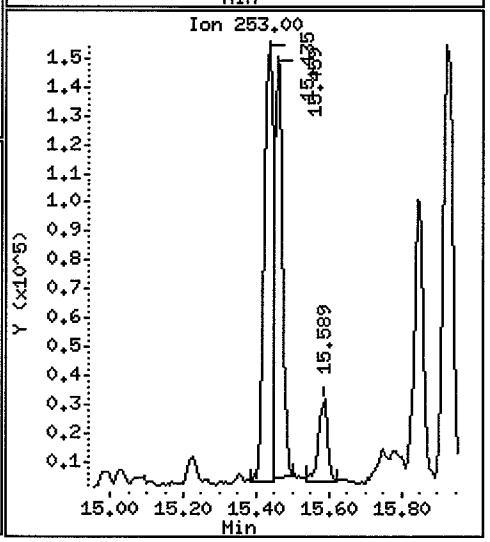












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

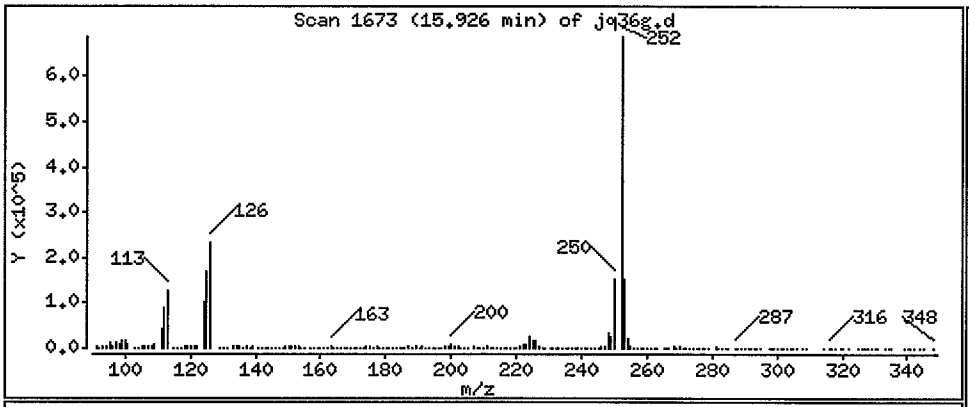
Operator: VTS

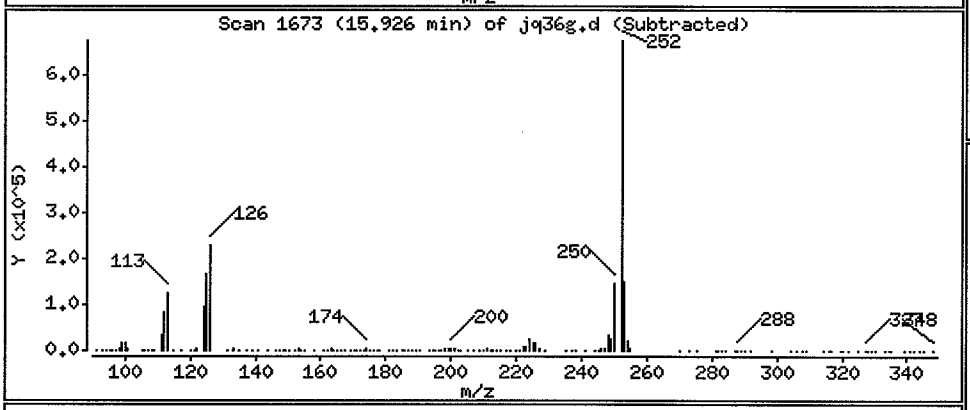
Column phase: ZB-5

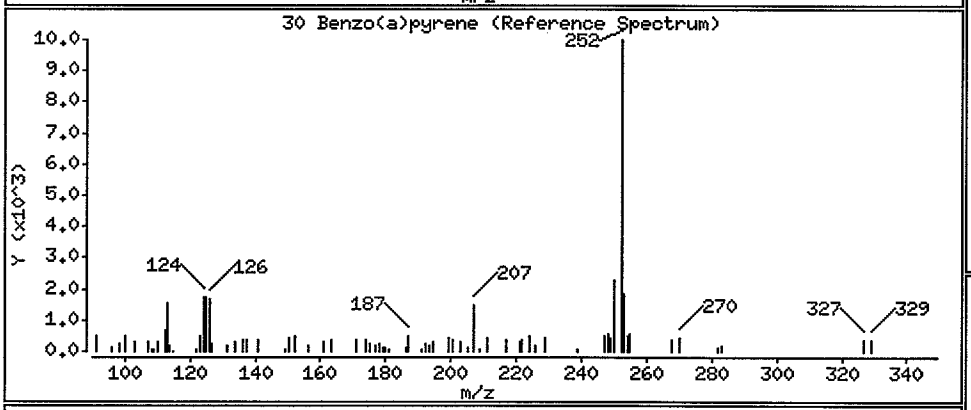
Column diameter: 0.25

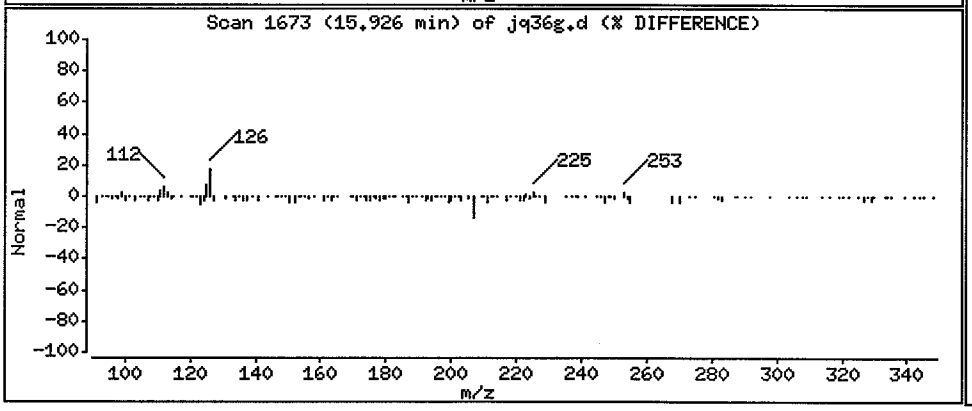
30 Benzo(a)pyrene

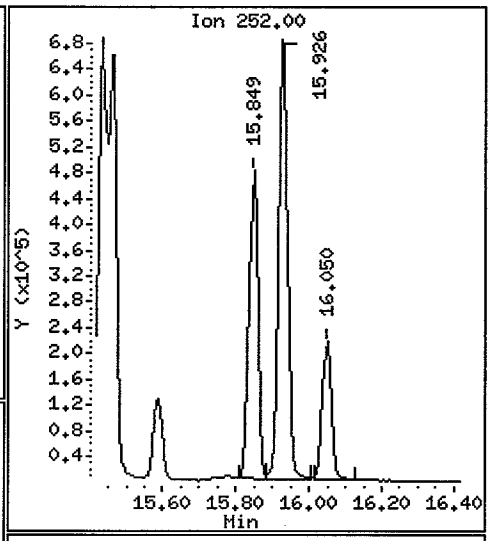
Concentration: 2761 ug/kg

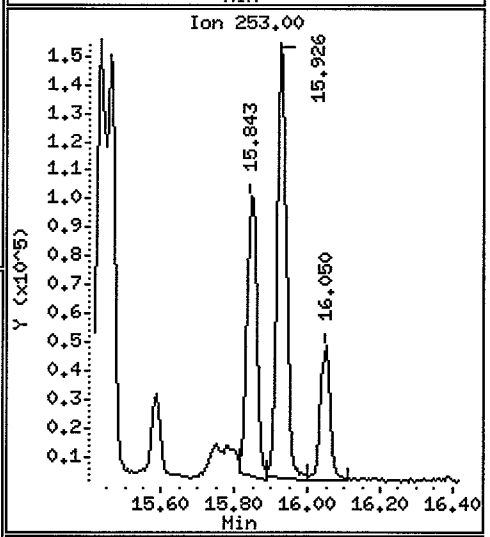


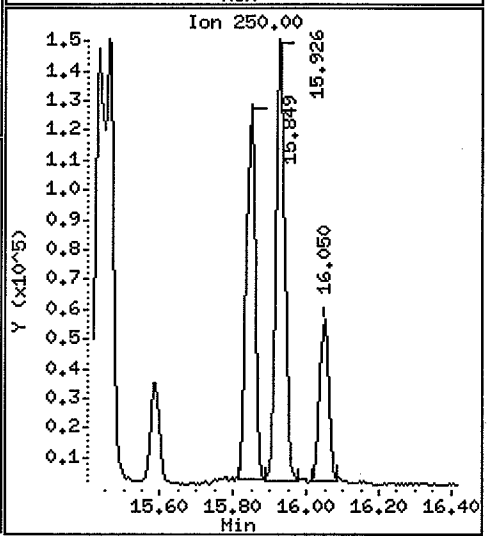












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

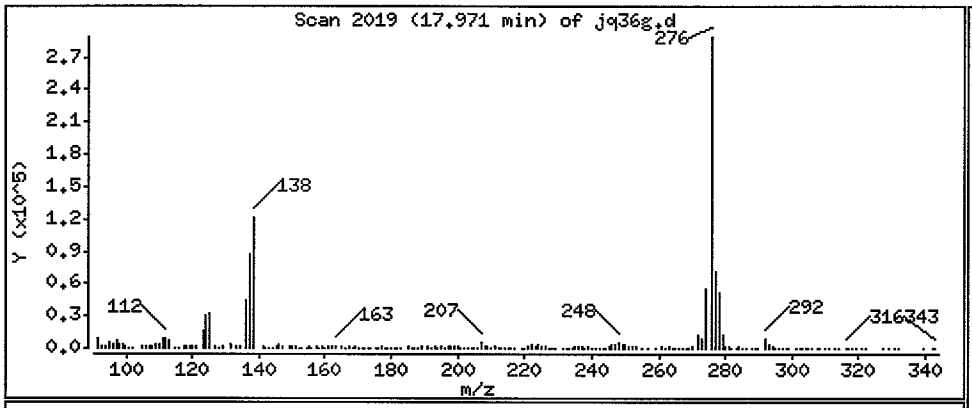
Operator: VTS

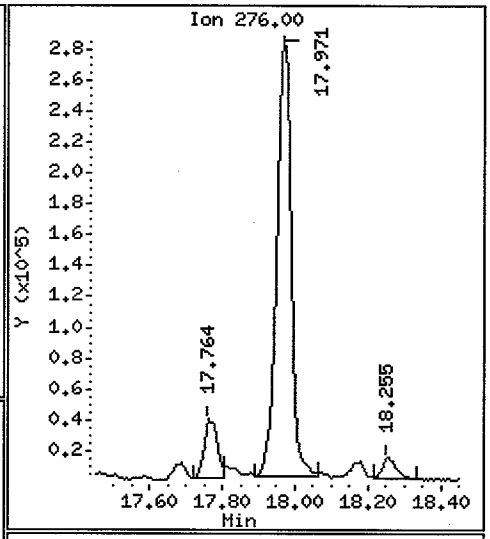
Column phase: ZB-5

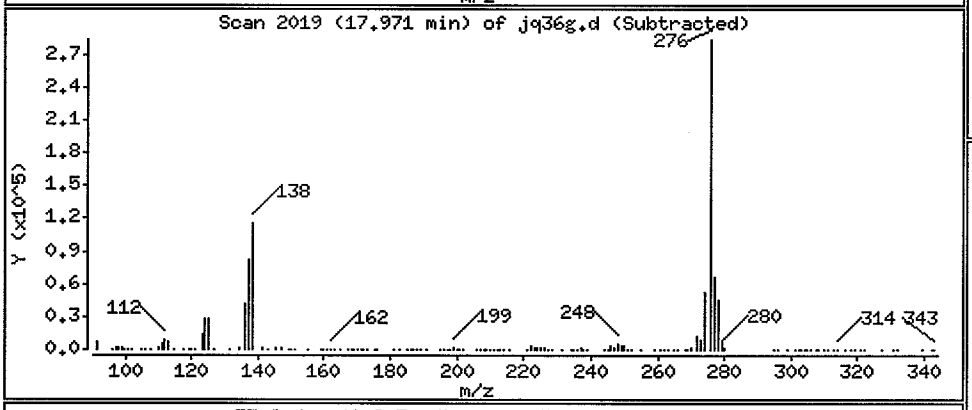
Column diameter: 0.25

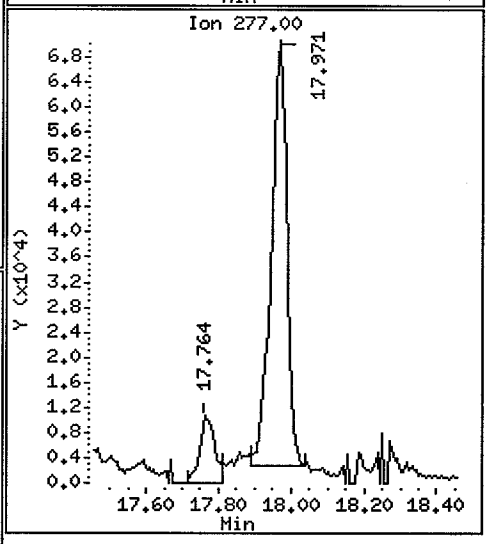
33 Indeno(1,2,3-cd)pyrene

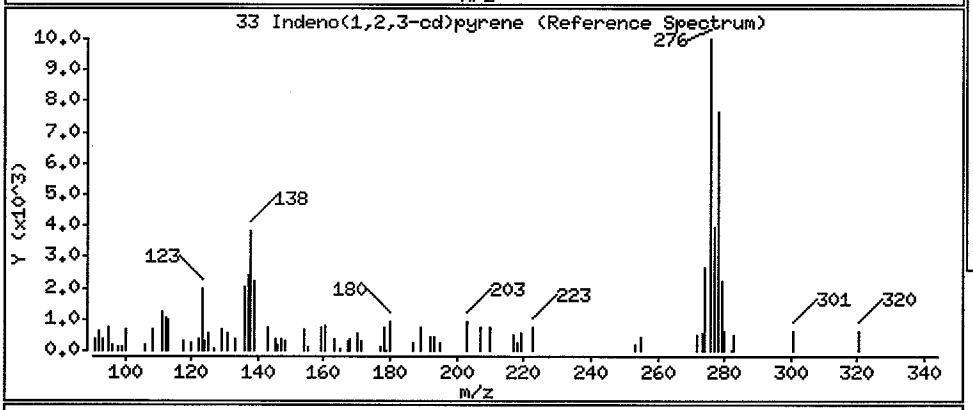
Concentration: 1529 ug/kg

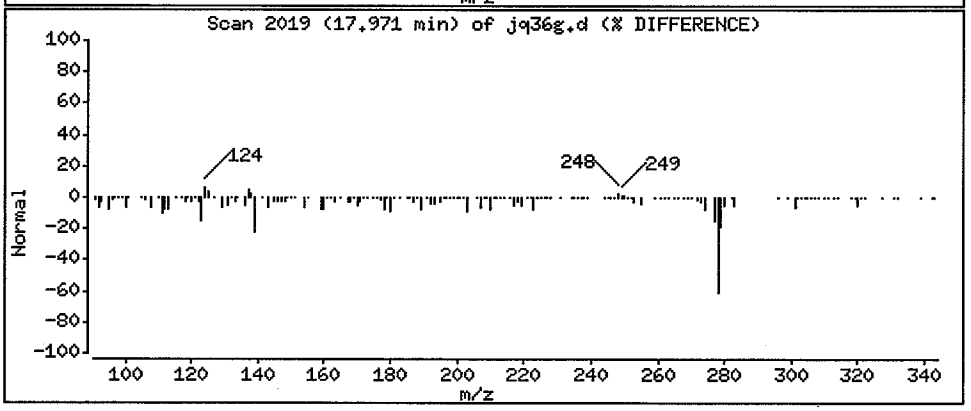












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

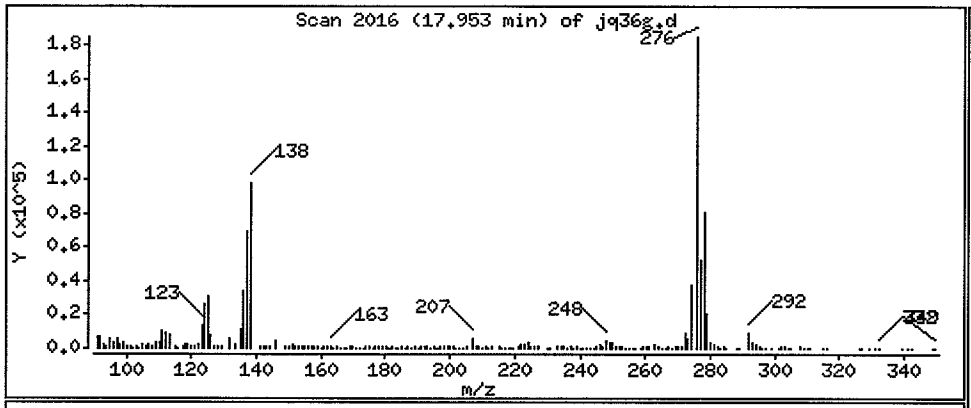
Operator: VTS

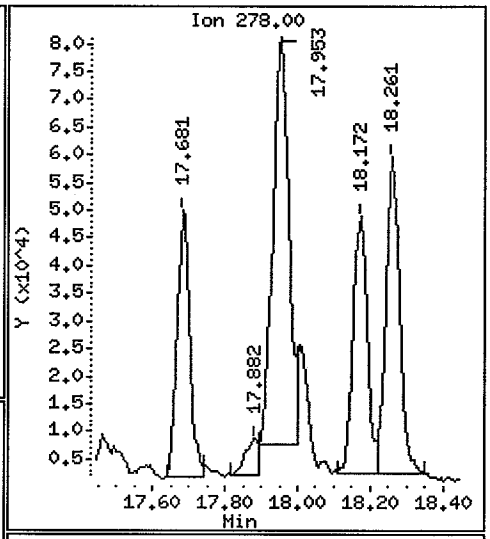
Column phase: ZB-5

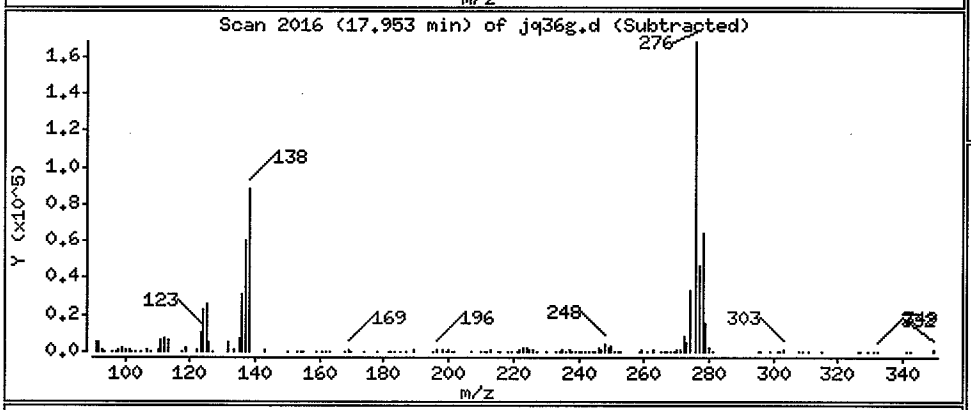
Column diameter: 0.25

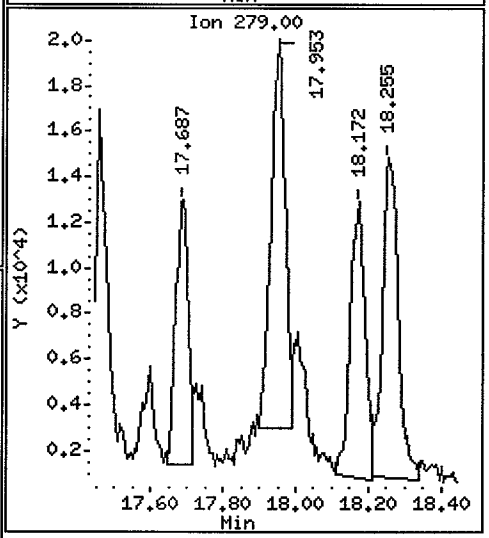
34 Dibenz(a,h)anthracene

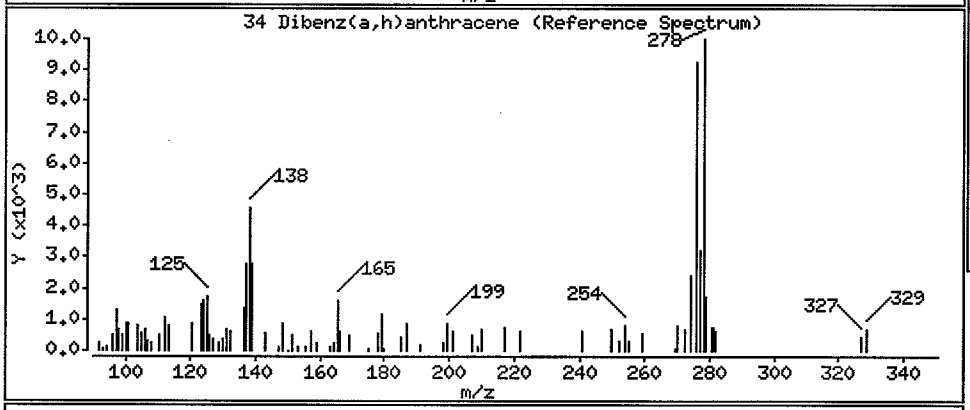
Concentration: 557.0 ug/kg

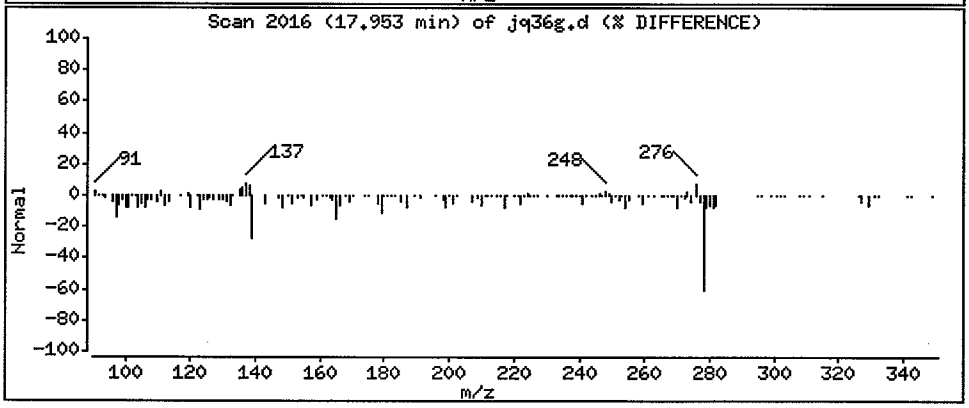












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

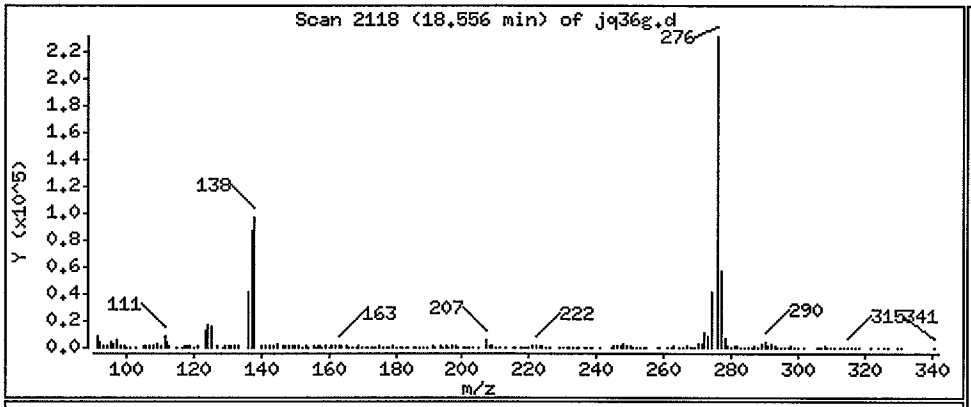
Operator: VTS

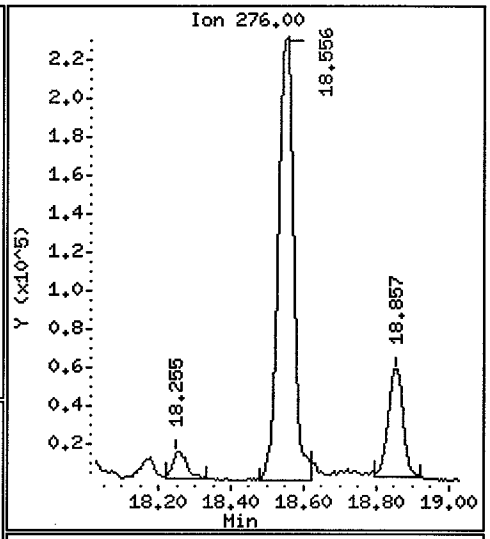
Column phase: ZB-5

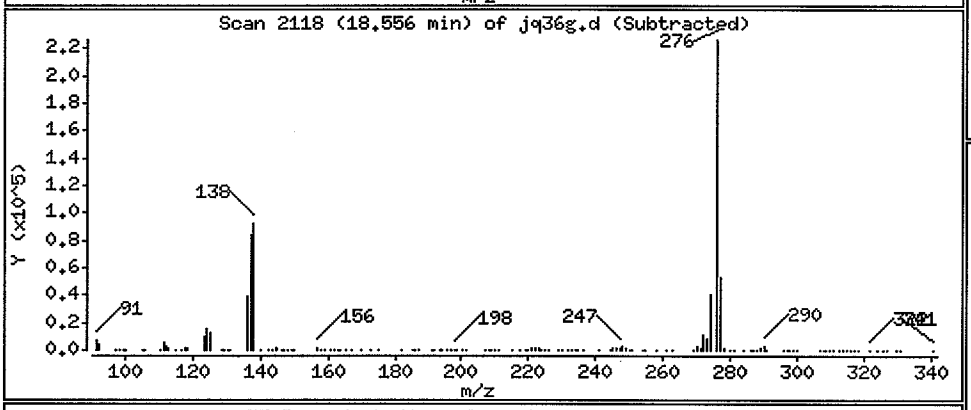
Column diameter: 0.25

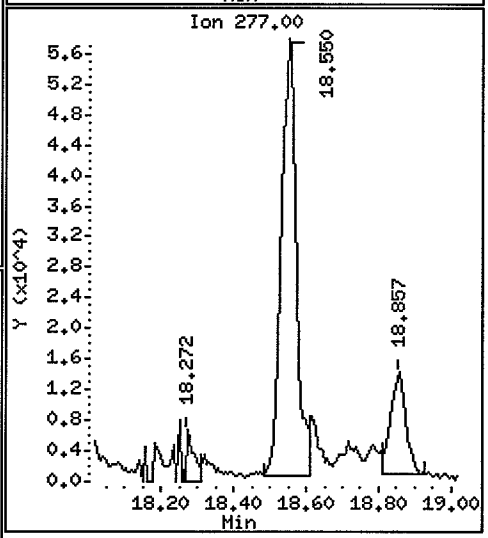
35 Benzo(g,h,i)perylene

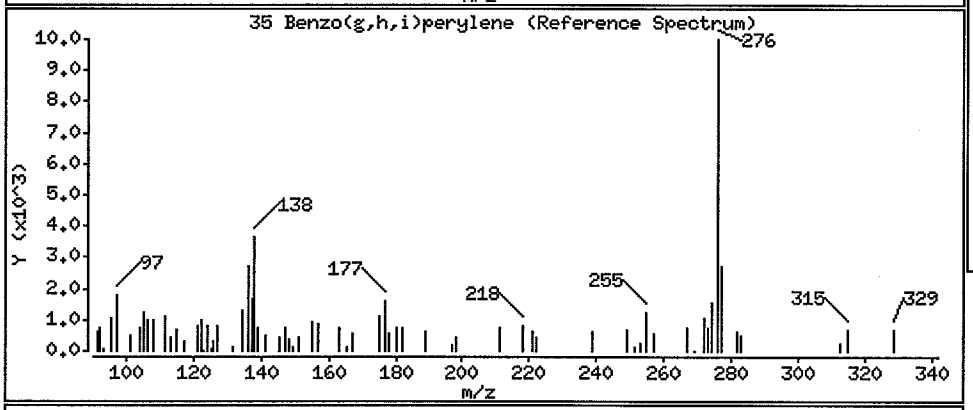
Concentration: 1627 ug/kg

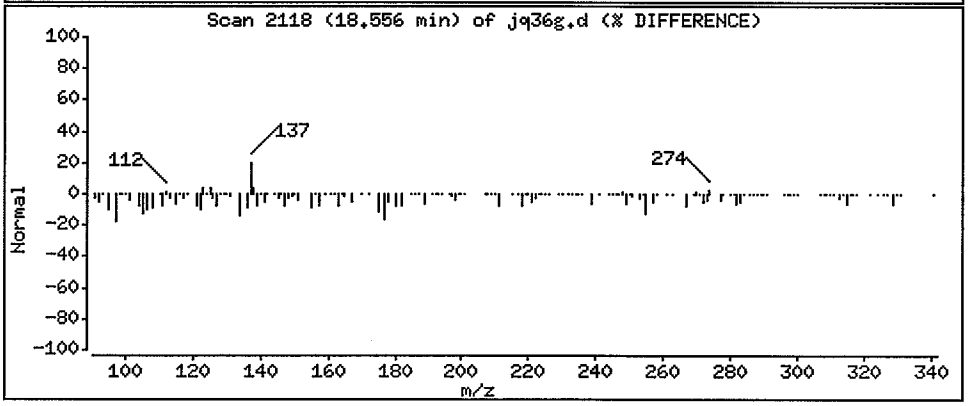












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

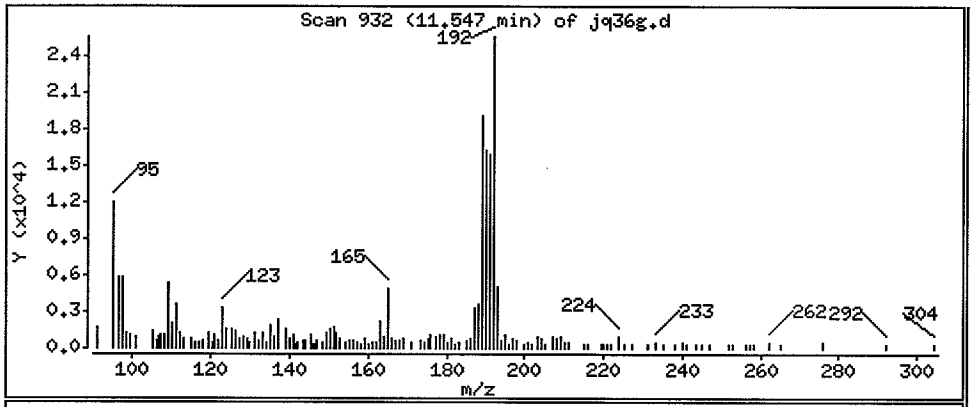
Operator: VTS

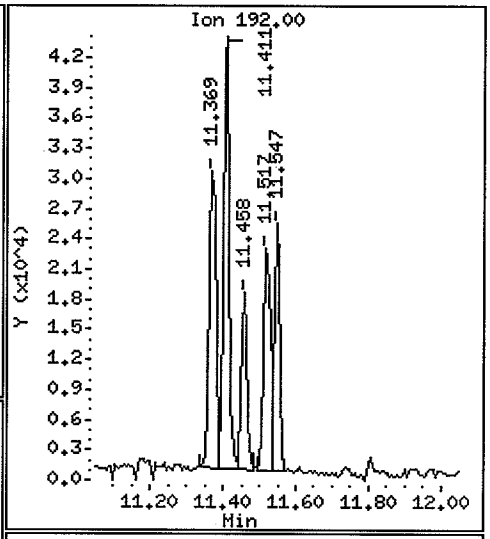
Column phase: ZB-5

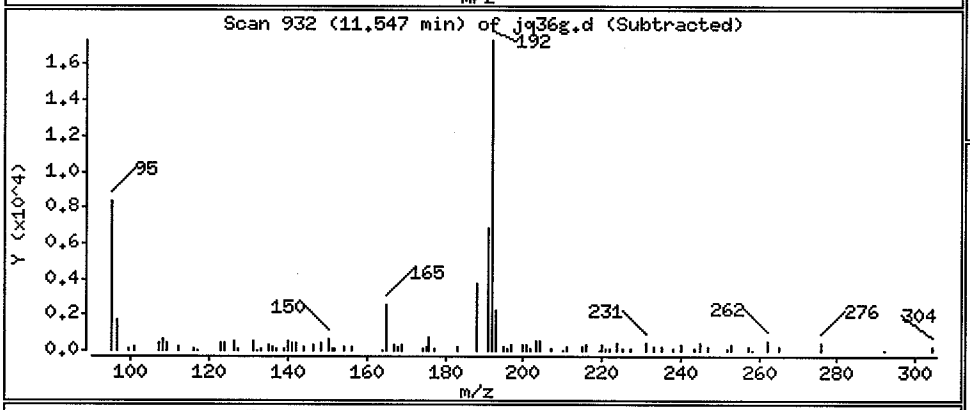
Column diameter: 0.25

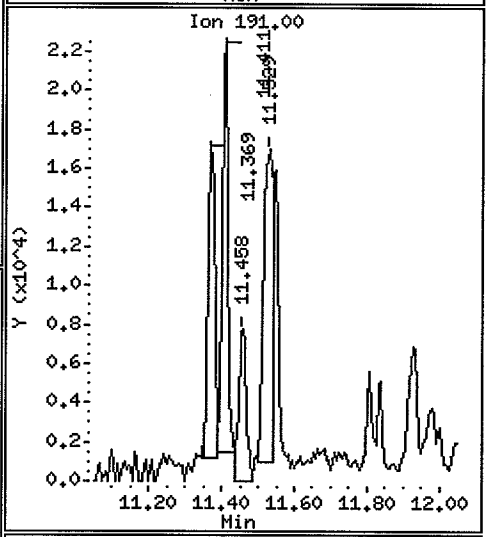
51 1-Methylphenanthrene

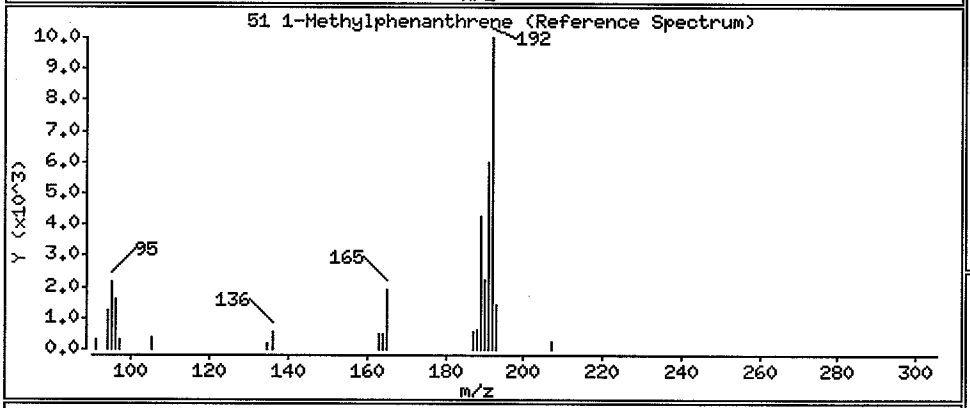
Concentration: 103.4 ug/kg

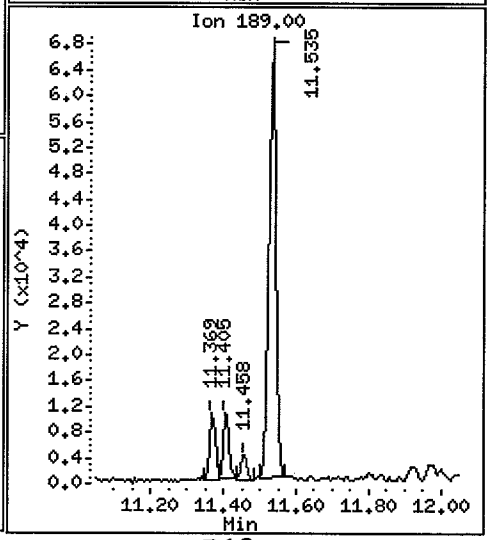


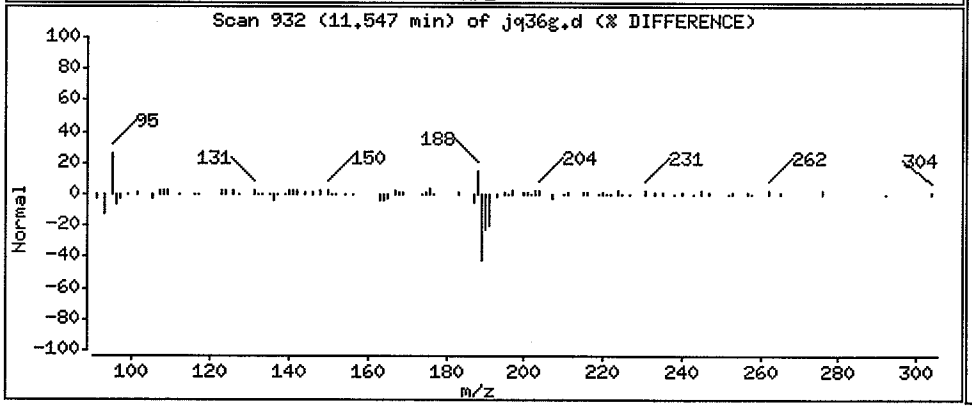












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

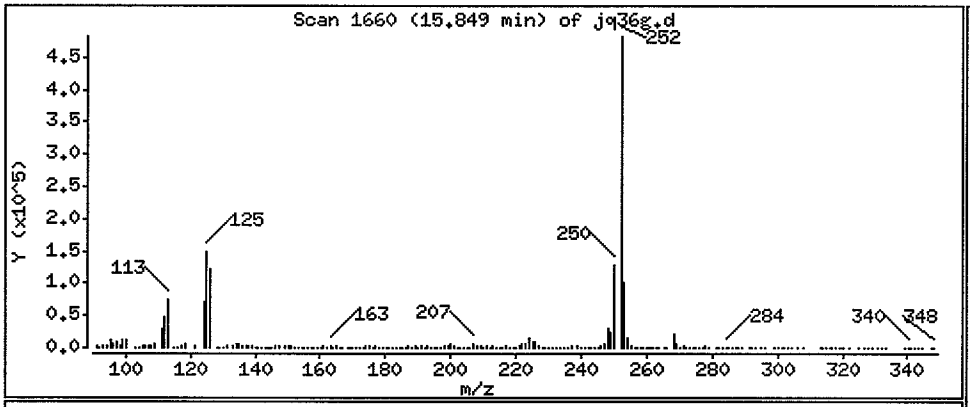
Operator: VTS

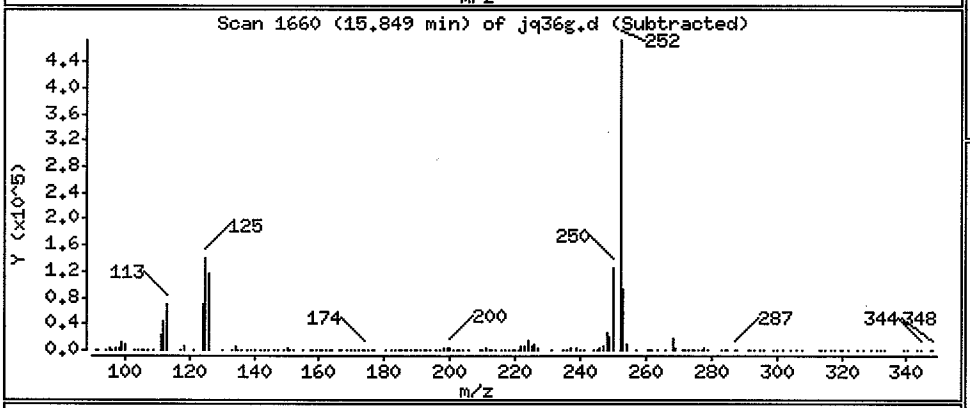
Column phase: ZB-5

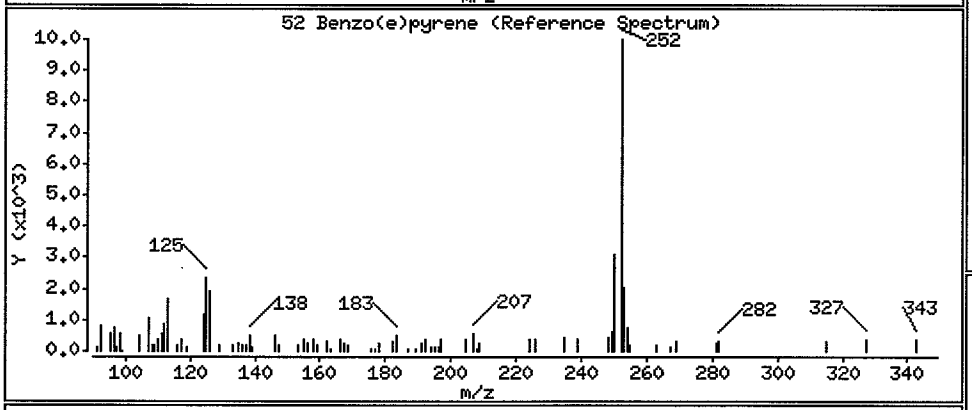
Column diameter: 0.25

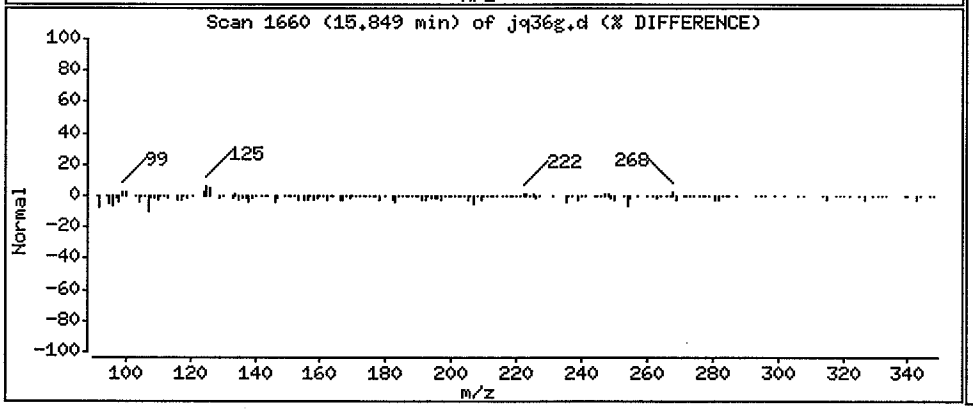
52 Benzo(e)pyrene

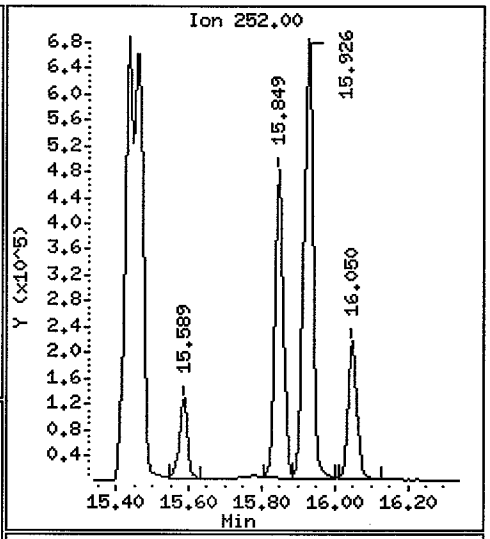
Concentration: 1681 ug/kg

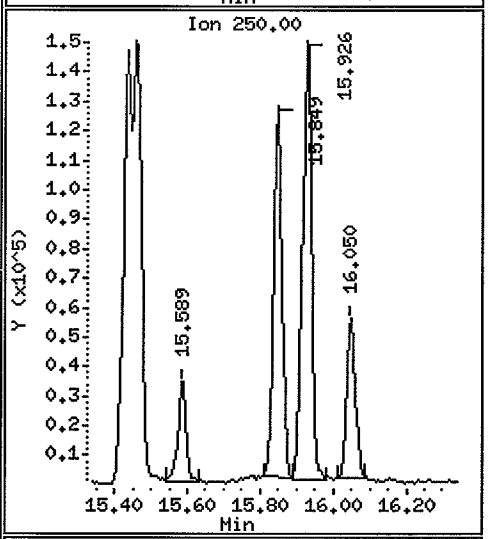


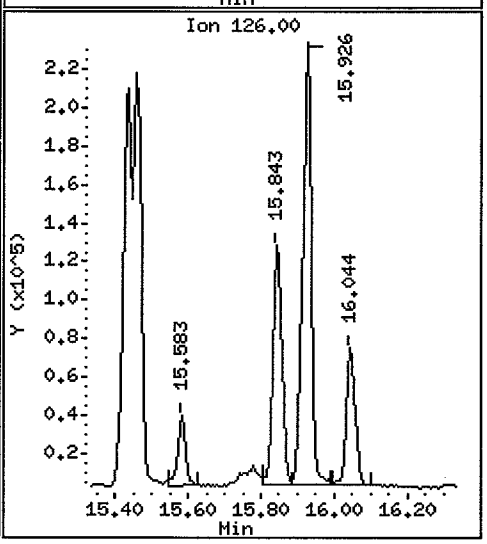












Data File: /chem3/nt1.i/20060810.b/jq36g.d

Date : 10-AUG-2006 17:56

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G

Volume Injected (uL): 1.0

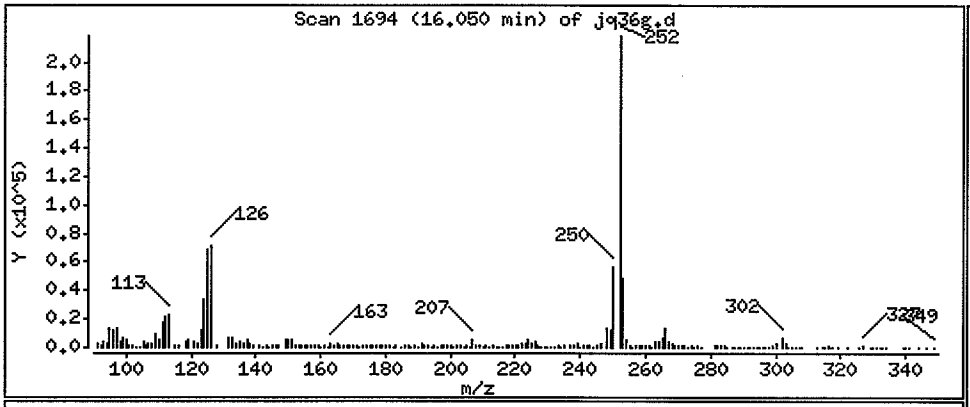
Operator: VTS

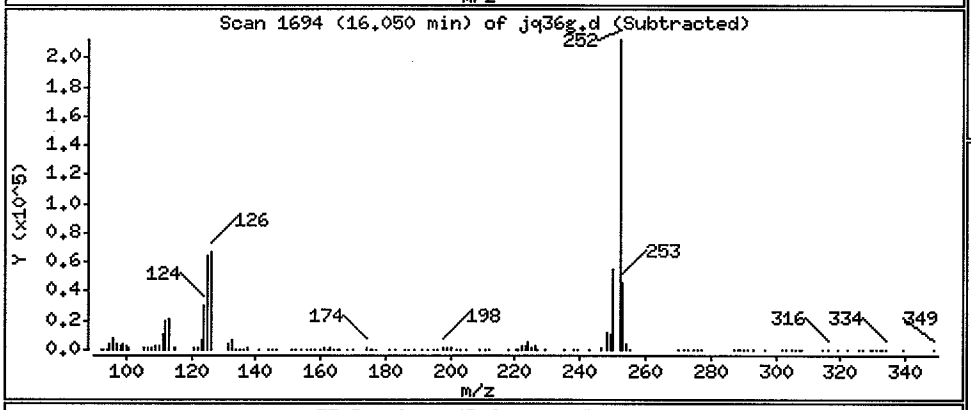
Column phase: ZB-5

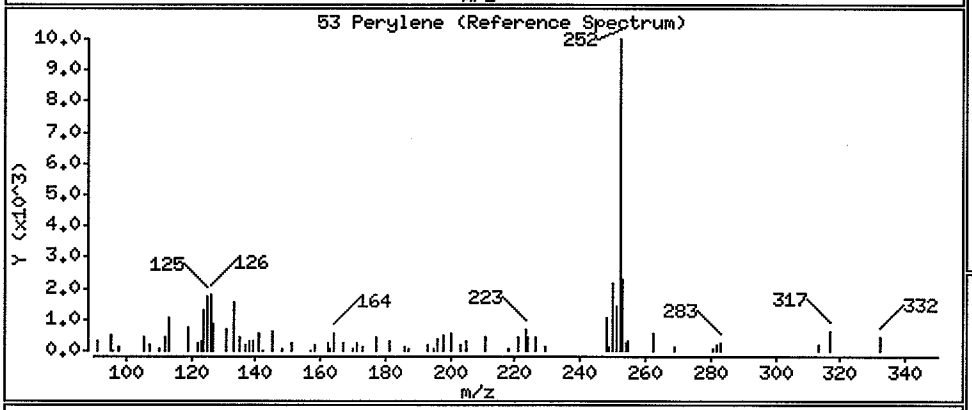
Column diameter: 0.25

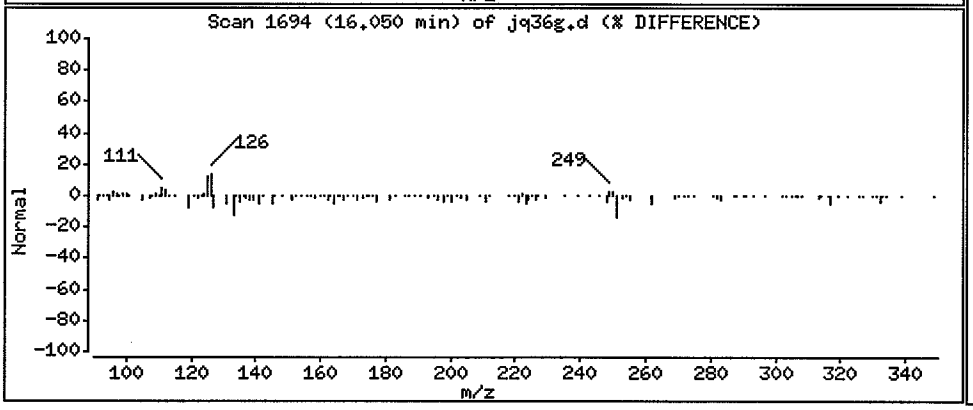
53 Perylene

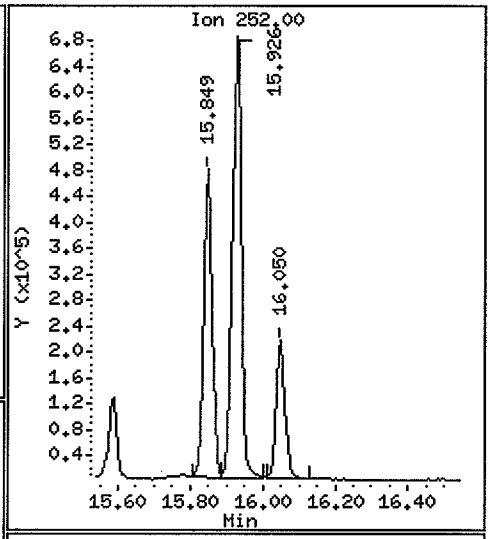
Concentration: 840.5 ug/kg

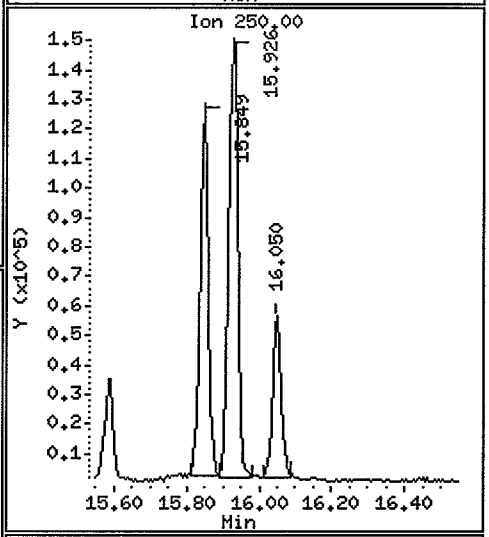


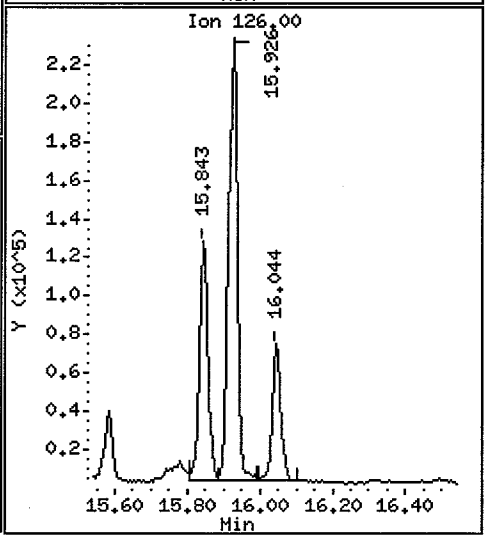












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-04-C**
Page 1 of 1 **DILUTION**

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 13:32
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.78 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 29.3%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	280	< 280 U
91-57-6	2-Methylnaphthalene	280	< 280 U
90-12-0	1-Methylnaphthalene	280	< 280 U
208-96-8	Acenaphthylene	280	< 280 U
83-32-9	**Acenaphthene**	**280**	**360**
86-73-7	**Fluorene**	**280**	**200 J**
85-01-8	**Phenanthrene**	**280**	**1,400**
120-12-7	**Anthracene**	**280**	**310**
206-44-0	**Fluoranthene**	**280**	**3,400**
129-00-0	**Pyrene**	**280**	**3,000**
56-55-3	**Benzo(a)anthracene**	**280**	**2,100**
218-01-9	**Chrysene**	**280**	**2,700**
205-99-2	**Benzo(b)fluoranthene**	**280**	**2,500**
207-08-9	**Benzo(k)fluoranthene**	**280**	**2,400**
50-32-8	**Benzo(a)pyrene**	**280**	**2,700**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**280**	**1,700**
53-70-3	**Dibenz(a,h)anthracene**	**280**	**670**
191-24-2	**Benzo(g,h,i)perylene**	**280**	**2,000**
198-55-0	**Perylene**	**280**	**870**
92-52-4	Biphenyl	280	< 280 U
581-42-0	2,6-Dimethylnaphthalene	280	< 280 U
832-69-9	1-Methylphenanthrene	280	< 280 U
192-97-2	**Benzo(e)pyrene**	**280**	**1,700**
2245-38-7	2,3,5-Trimethylnaphthalene	280	< 280 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.0%
d14-Dibenzo(a,h)anthracen	67.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq36g.d
Lab Smp Id: JQ36G Client Smp ID: T4-S3-04-C
Inj Date : 09-AUG-2006 13:32
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36G,10
Misc Info : 06-12978
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 09:48 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	2.52000	Weight of sample extracted (g)
M	29.30000	% 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	6.873	6.877	(1.000)	265372	2.00000	
2 Naphthalene	128	Compound Not Detected.					
$ 3 2-Methylnaphthalene-d10	152	7.630	7.634	(1.110)	12290	0.17981	504.6
4 2-Methylnaphthalene	142	Compound Not Detected.					
5 1-Methylnaphthalene	142	Compound Not Detected.					
7 Acenaphthylene	152	Compound Not Detected.					
* 8 Acenaphthene-d10	164	8.936	8.934	(1.000)	128041	2.00000	
9 Acenaphthene	153	8.977	8.975	(1.005)	8404	0.13367	375.1
10 Dibenzofuran	168	Compound Not Detected.					
11 Fluorene	166	9.586	9.590	(1.073)	5015	0.06956	195.2 J
* 15 Phenanthrene-d10	188	10.750	10.748	(1.000)	189984	2.00000	
16 Phenanthrene	178	10.774	10.778	(1.002)	48389	0.49622	1393
17 Anthracene	178	10.833	10.837	(1.008)	10925	0.11211	314.6
19 Fluoranthene	202	12.269	12.273	(1.141)	119971	1.20618	3385

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.559	12.557	(0.893)	116159	1.07583	3019
	22 Benzo(a)anthracene	228	14.036	14.040	(0.998)	75884	0.74943	2103
*	23 Chrysene-d12	240	14.060	14.058	(1.000)	168146	2.00000	
	24 Chrysene	228	14.089	14.093	(1.002)	88768	0.95048	2667
	28 Benzo(b)fluoranthene	252	15.431	15.429	(0.964)	104600	0.90233	2532
	29 Benzo(k)fluoranthene	252	15.455	15.459	(0.966)	106479	0.86159	2418
	30 Benzo(a)pyrene	252	15.922	15.926	(0.995)	107932	0.95553	2682
*	31 Perylene-d12	264	16.004	16.008	(1.000)	205398	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.955	17.959	(1.122)	80833	0.62228	1746
$	32 Dibenz(a,h)anthrancene-d14	292	17.878	17.888	(1.117)	15840	0.20151	565.5
	34 Dibenz(a,h)anthracene	278	17.949	17.959	(1.121)	25122	0.23674	664.4
	35 Benzo(g,h,i)perylene	276	18.540	18.544	(1.158)	78775	0.72954	2047
	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	Compound Not Detected.					
	52 Benzo(e)pyrene	252	15.845	15.843	(0.990)	76391	0.61097	1715
	53 Perylene	252	16.046	16.050	(1.003)	36127	0.30774	863.6

VTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36g.d
Lab Smp Id: JQ36G
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12978

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-S3-04-C
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	265372	10.53
8 Acenaphthene-d10	117778	58889	235556	128041	8.71
15 Phenanthrene-d10	165702	82851	331404	189984	14.65
23 Chrysene-d12	120342	60171	240684	168146	39.72
31 Perylene-d12	134879	67440	269758	205398	52.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.87	-0.06
8 Acenaphthene-d10	8.93	8.43	9.43	8.94	0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.02
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.01
31 Perylene-d12	16.01	15.51	16.51	16.00	-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

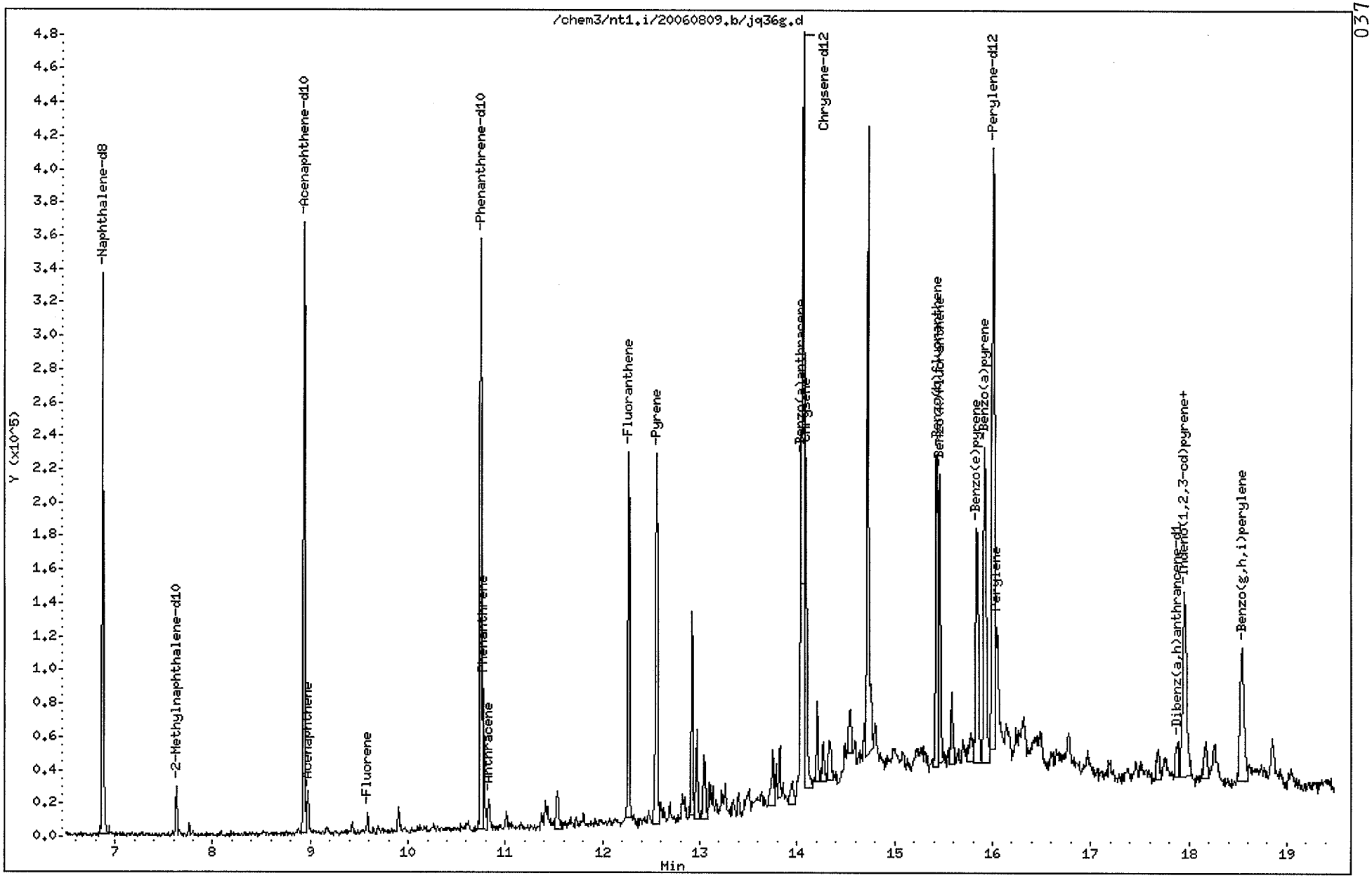
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36G
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12978

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-04-C
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	841.9	504.6	59.94	32-97
$ 32 Dibenz(a,h)anthran	841.9	565.5	67.17	21-105

Data File: /chem3/nt1.i/20060809.b/jq36g.d
Date : 09-AUG-2006 13:32
Client ID: T4-S3-04-C
Sample Info: JQ36G,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0370

Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

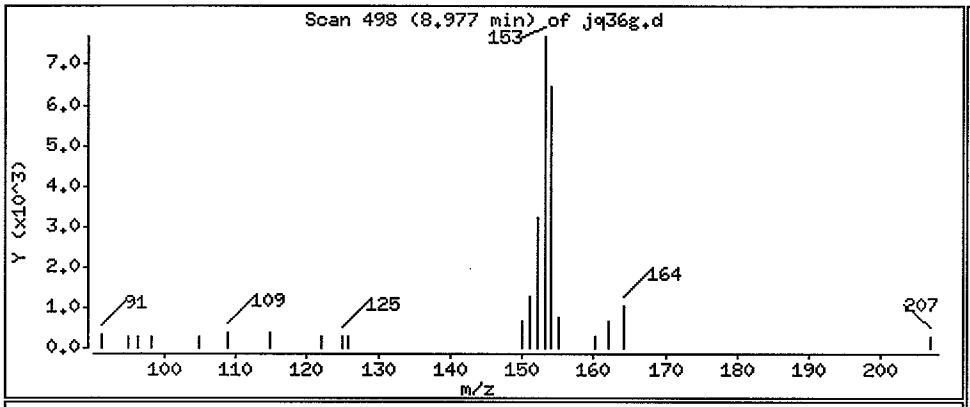
Operator: VTS

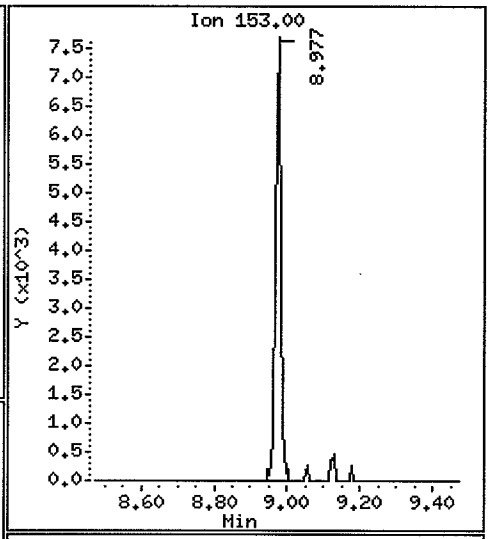
Column phase: ZB-5

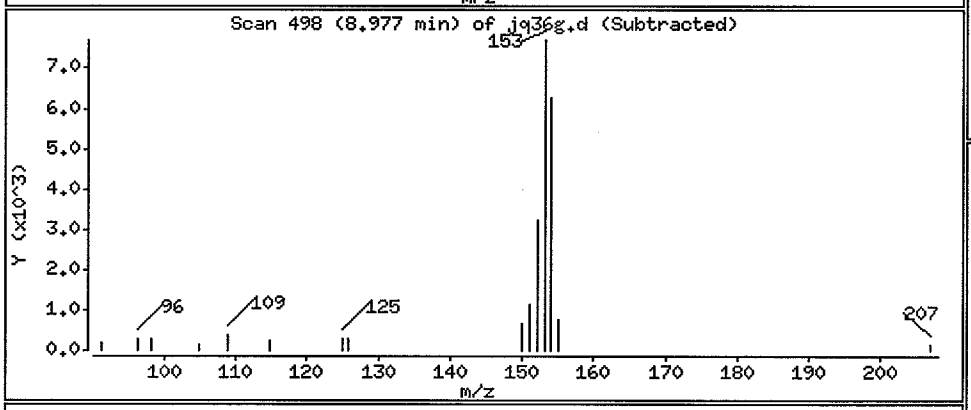
Column diameter: 0.25

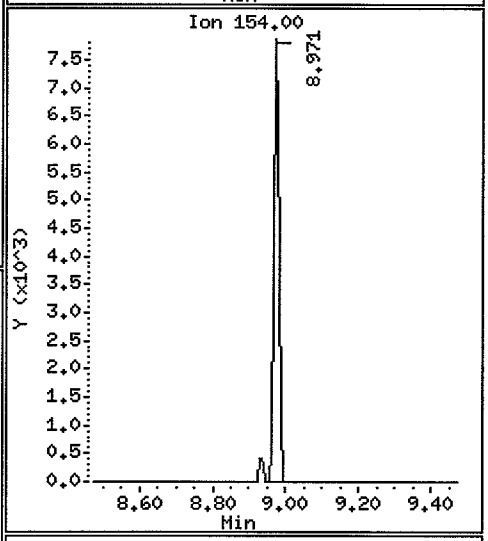
9 Acenaphthene

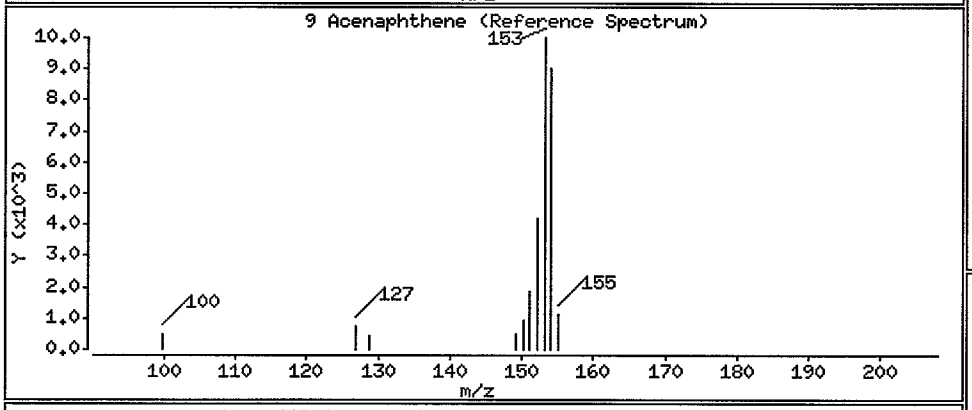
Concentration: 375.1 ug/kg

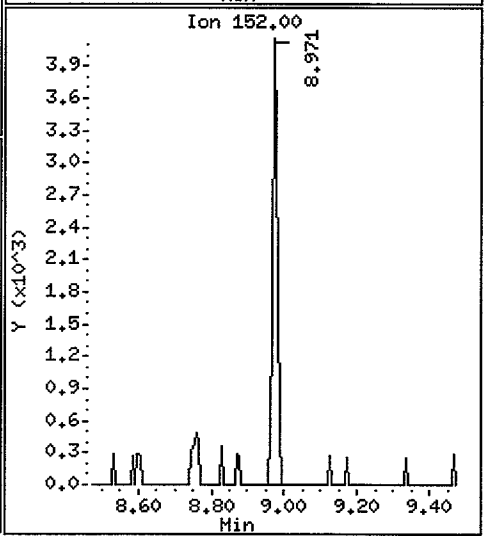


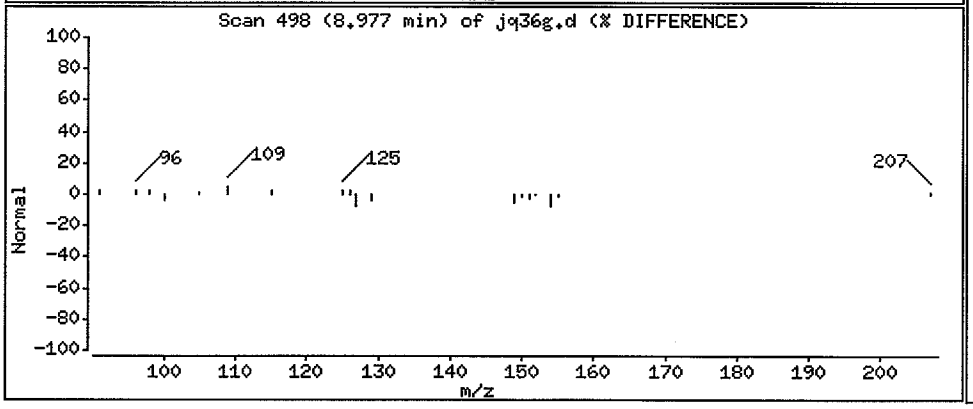












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

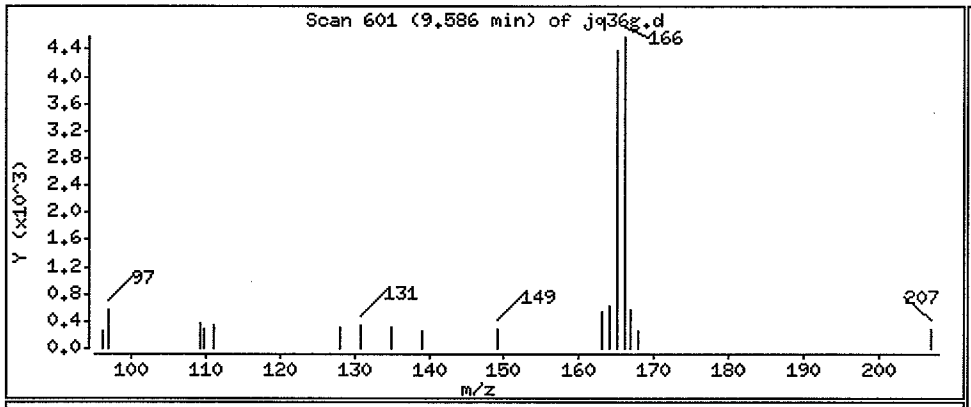
Operator: VTS

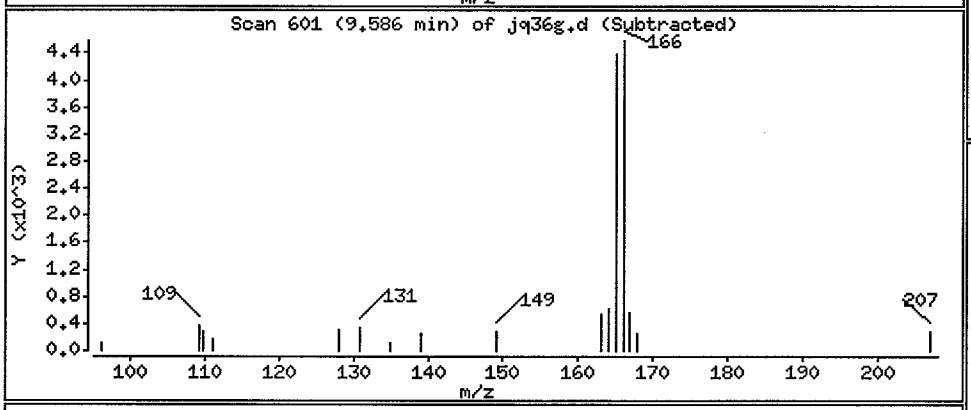
Column phase: ZB-5

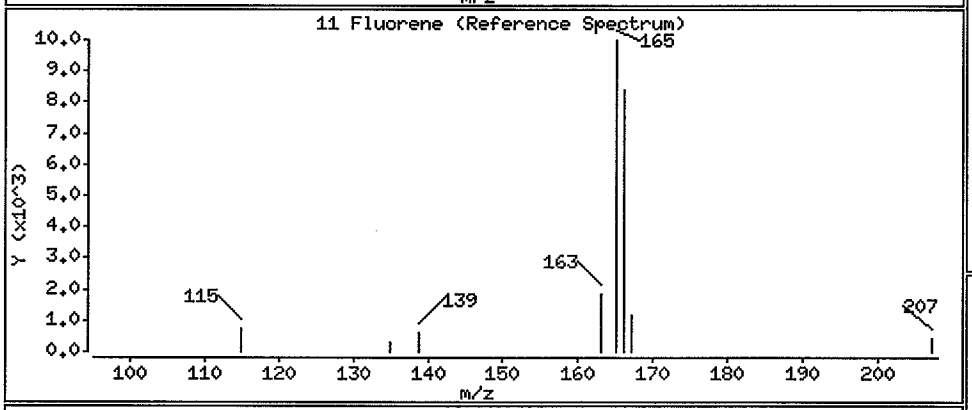
Column diameter: 0.25

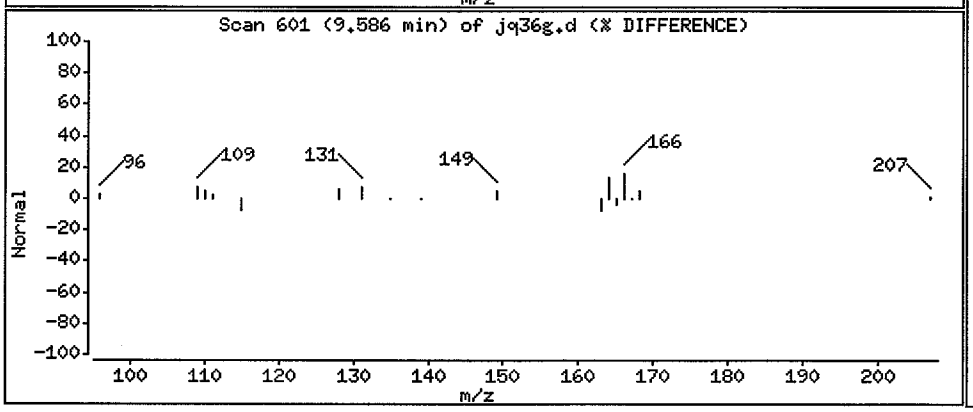
11 Fluorene

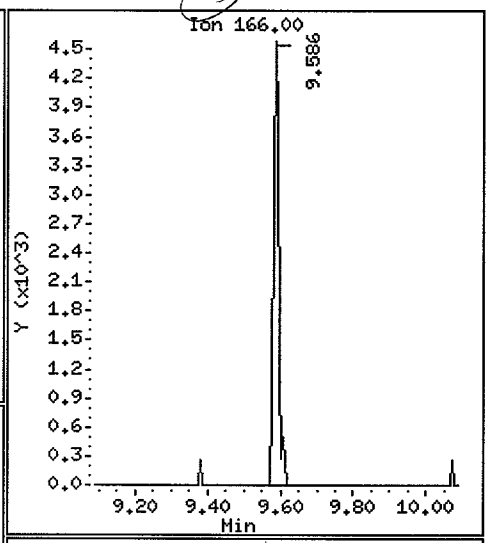
Concentration: 195.2 ug/kg

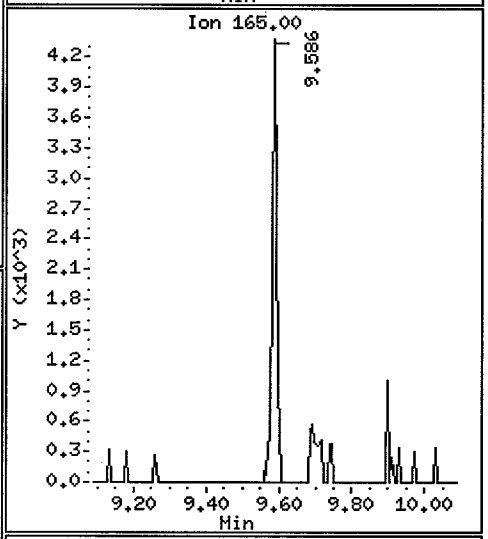


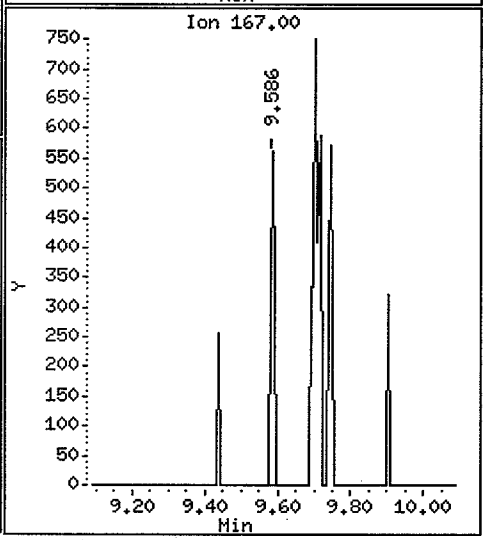












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

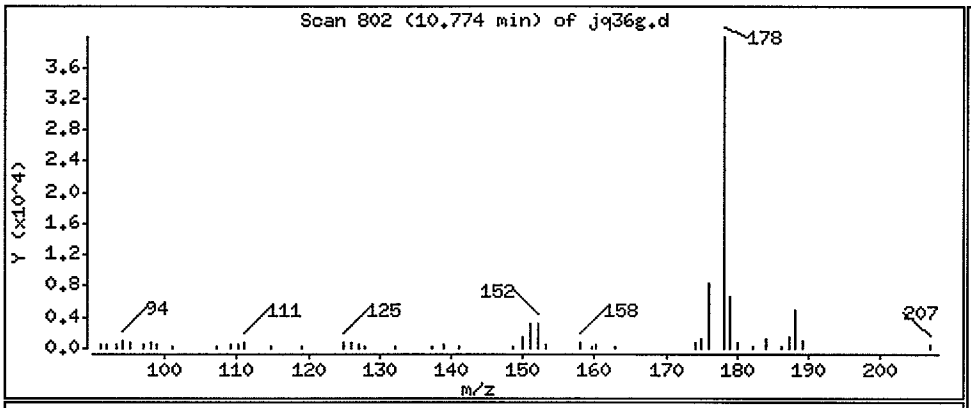
Operator: VTS

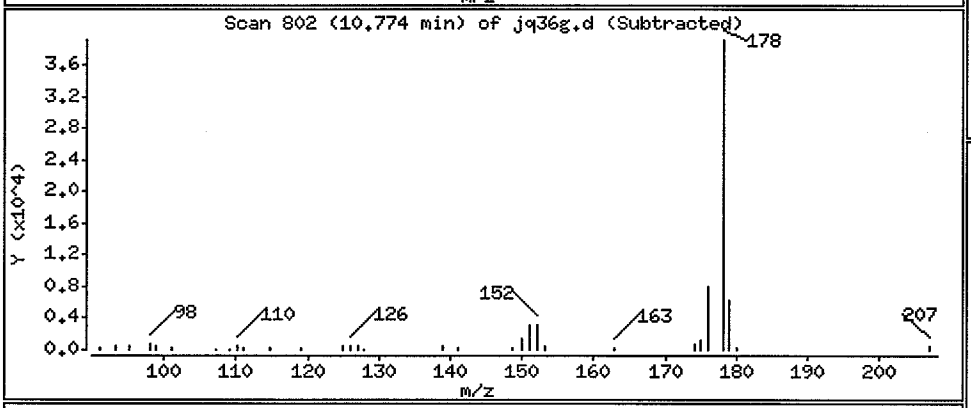
Column phase: ZB-5

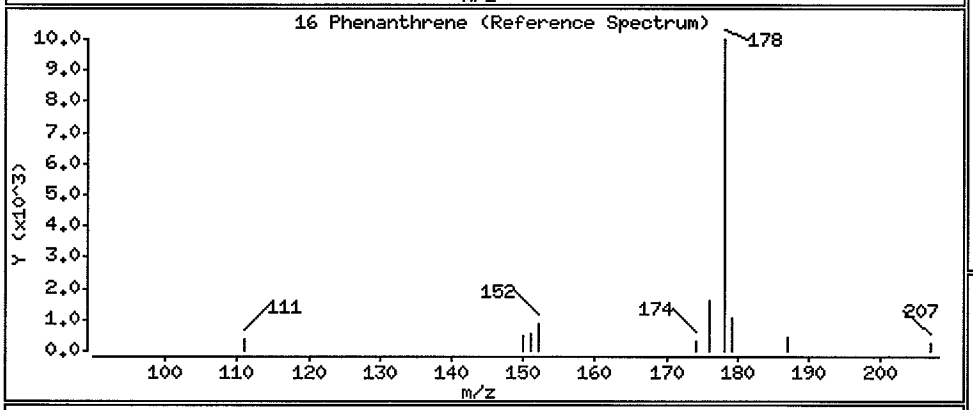
Column diameter: 0.25

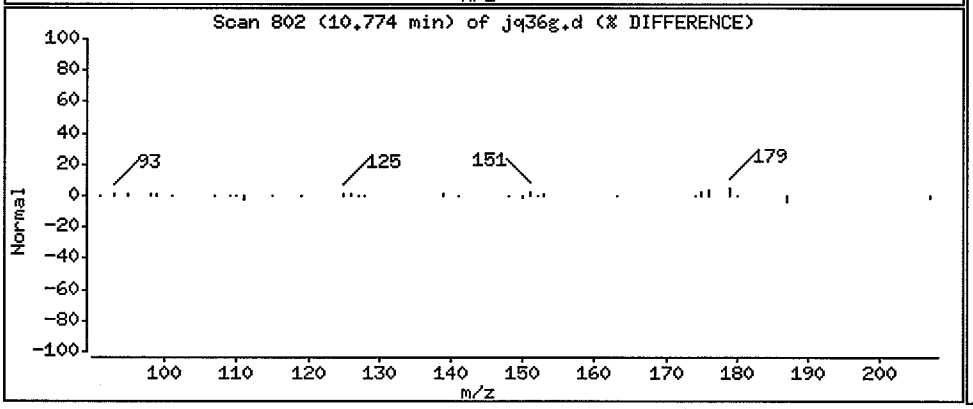
16 Phenanthrene

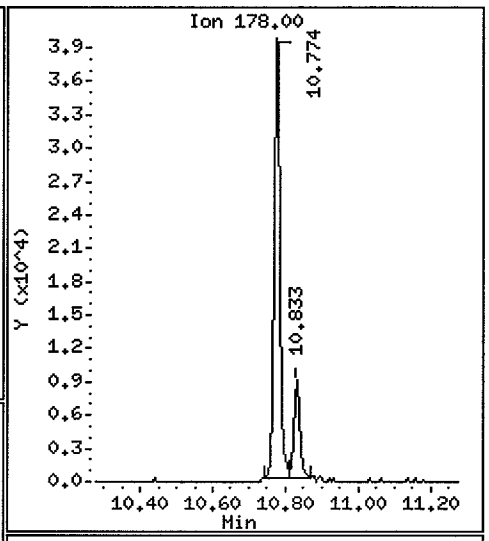
Concentration: 1393 ug/kg

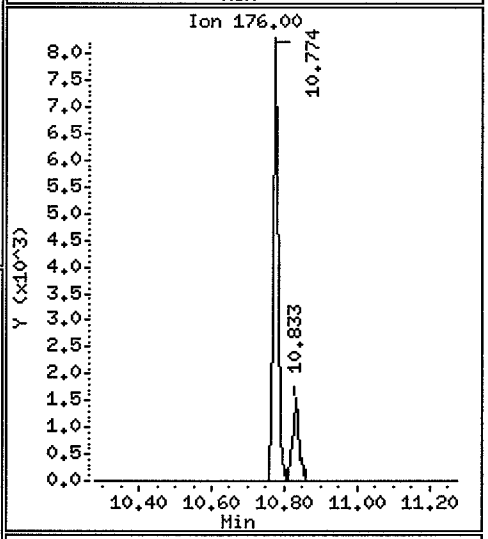


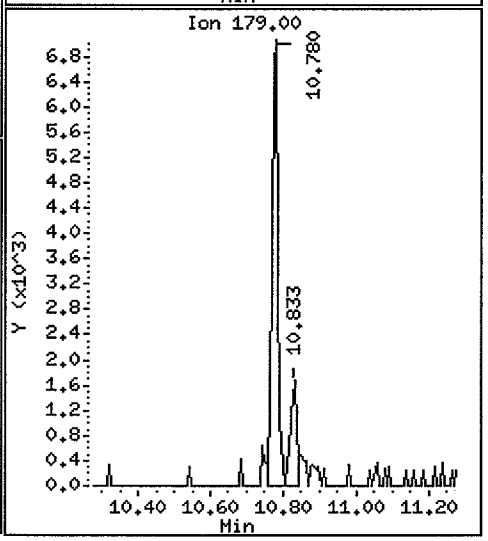












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

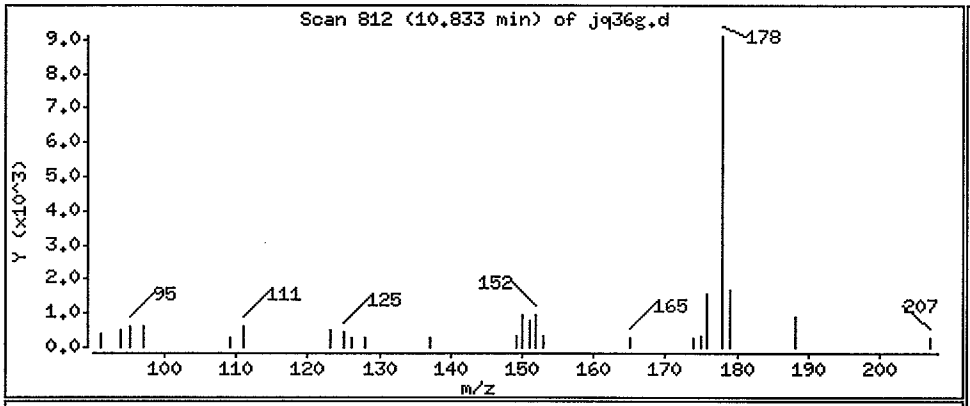
Operator: VTS

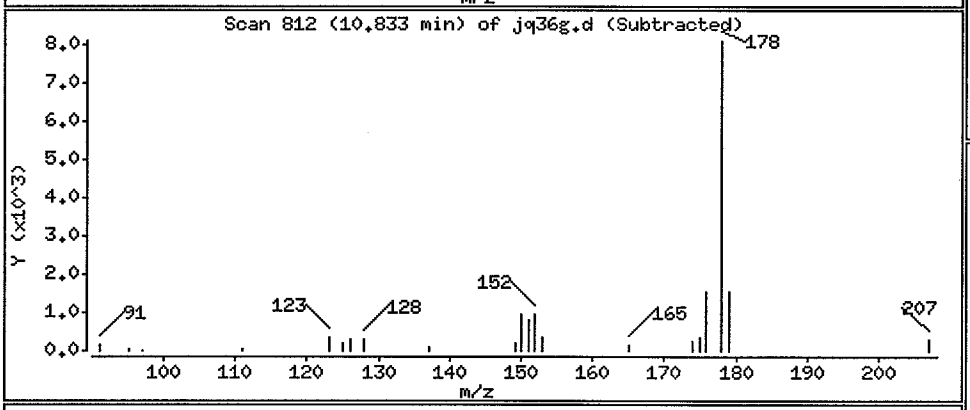
Column phase: ZB-5

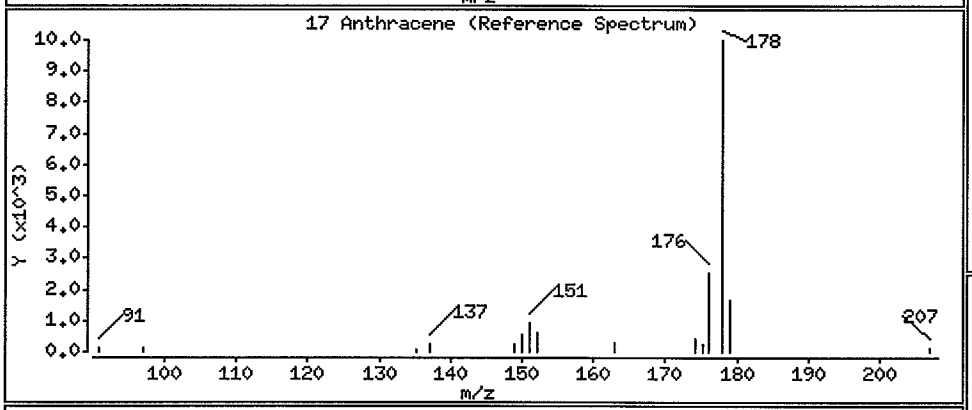
Column diameter: 0.25

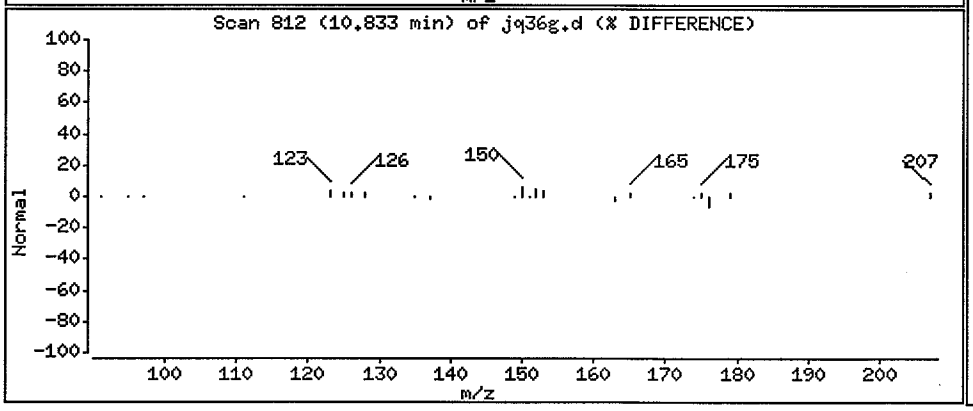
17 Anthracene

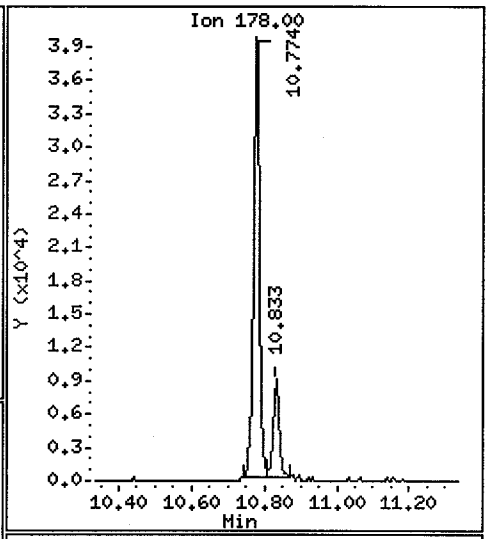
Concentration: 314.6 ug/kg

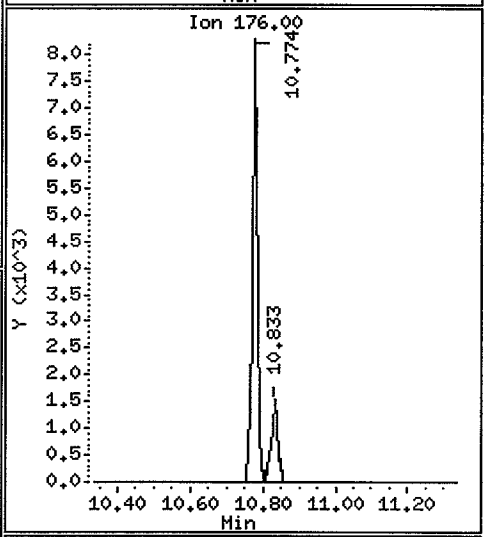


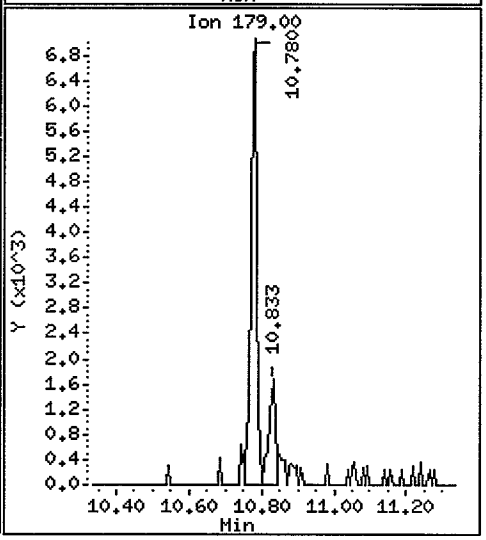












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

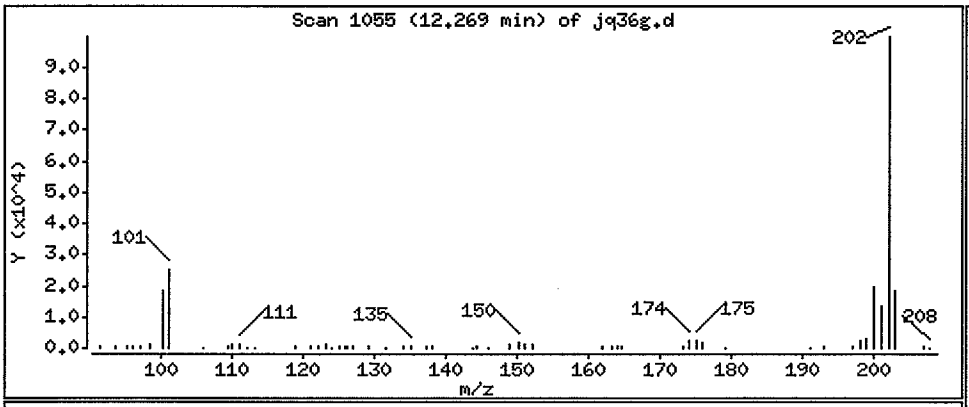
Operator: VTS

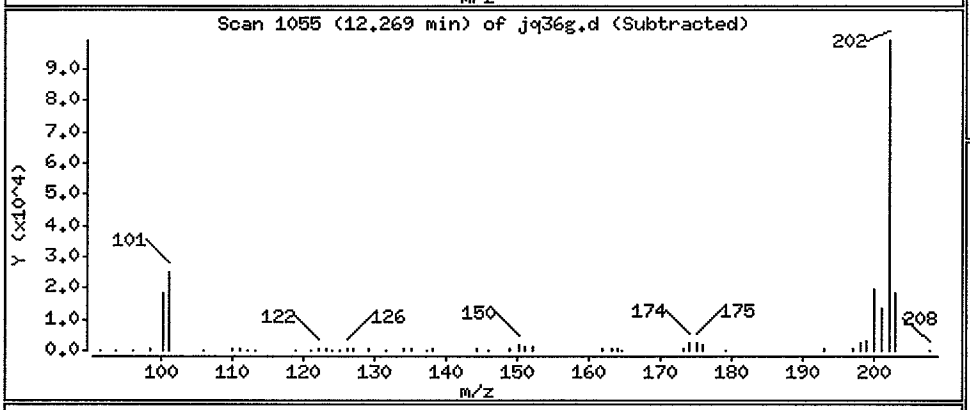
Column phase: ZB-5

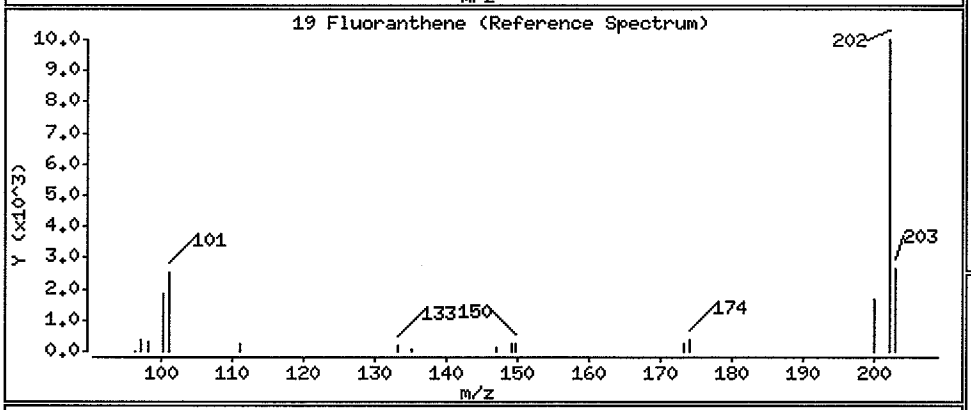
Column diameter: 0.25

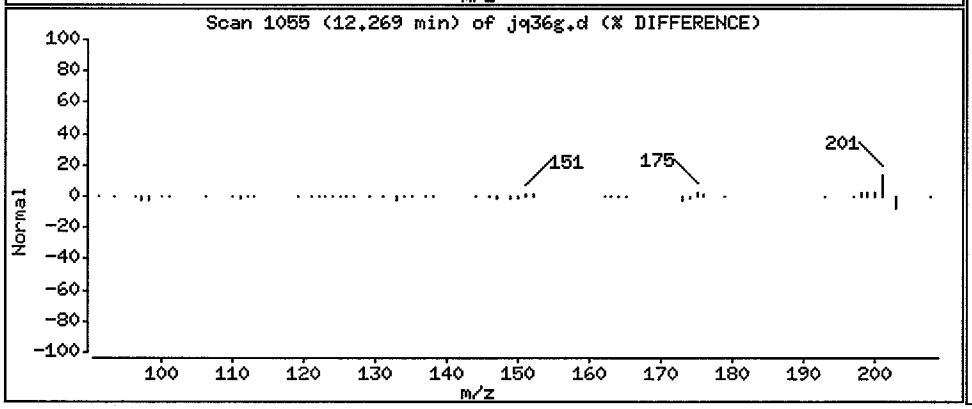
19 Fluoranthene

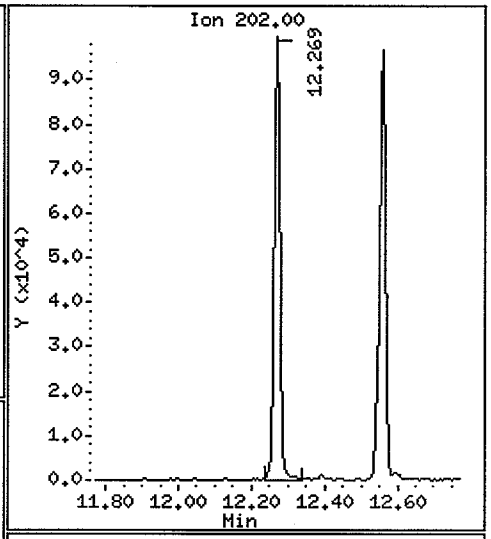
Concentration: 3385 ug/kg

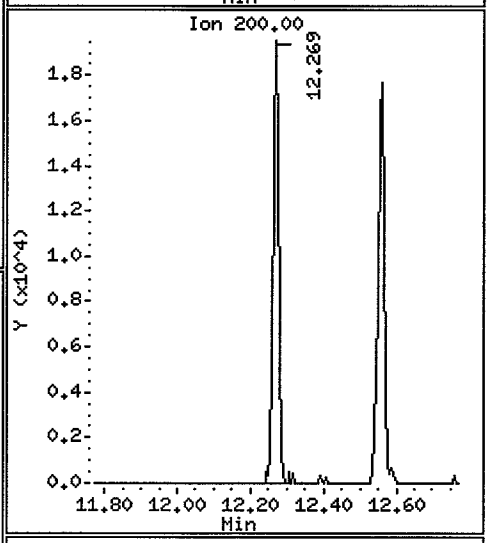


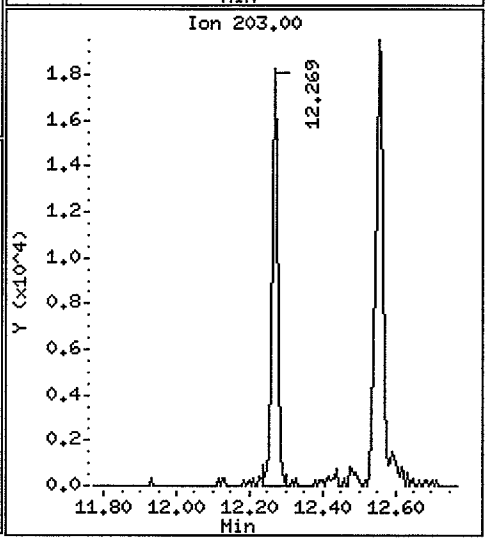












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

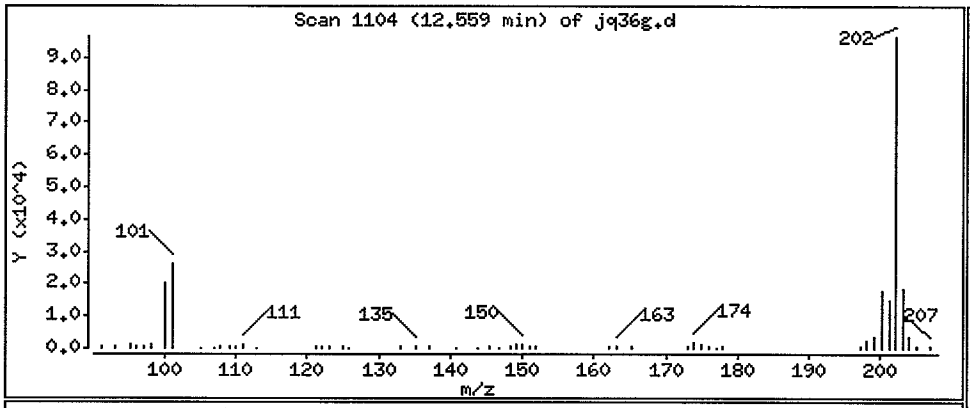
Operator: VTS

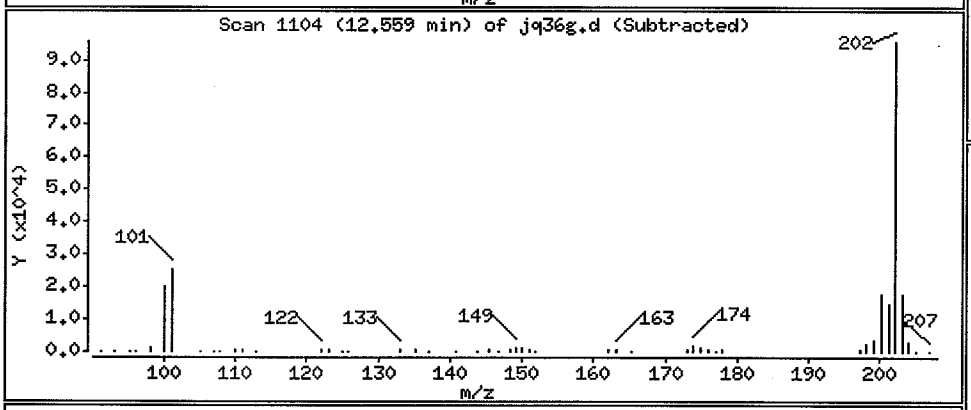
Column phase: ZB-5

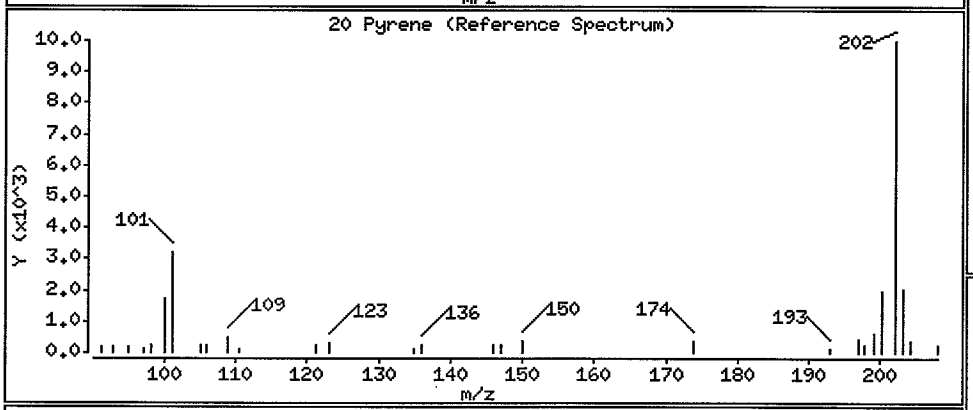
Column diameter: 0.25

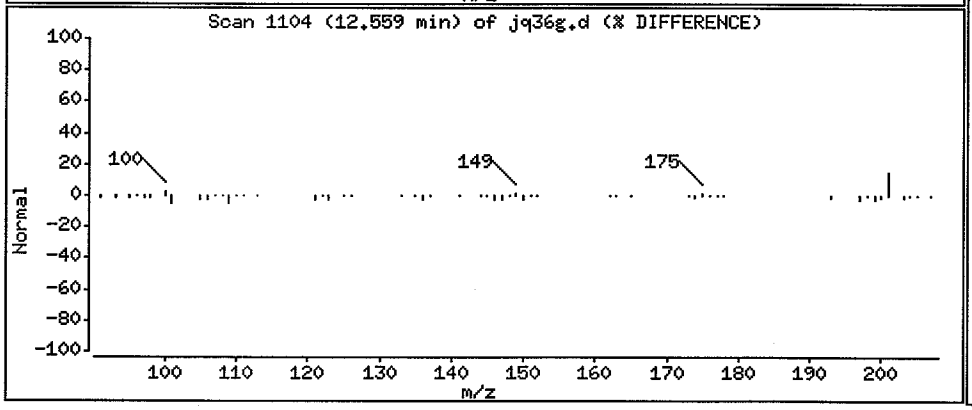
20 Pyrene

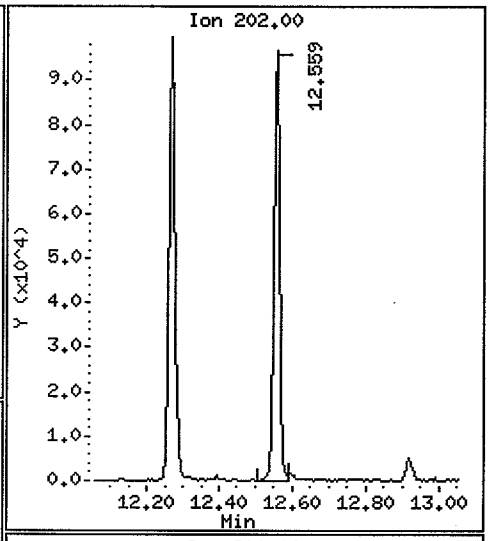
Concentration: 3019 ug/kg

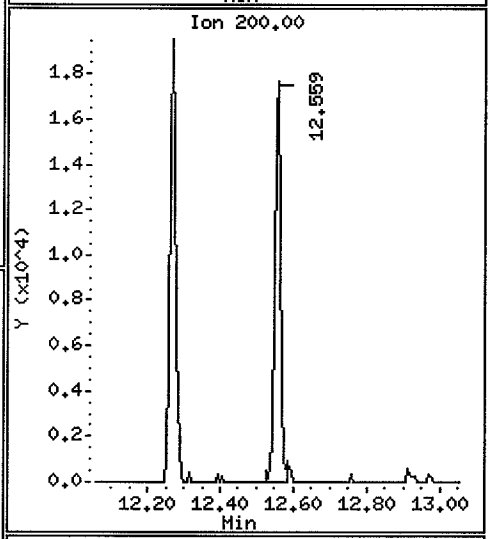


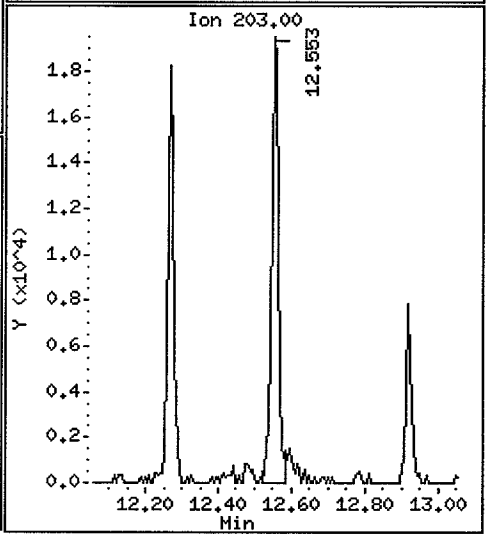












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

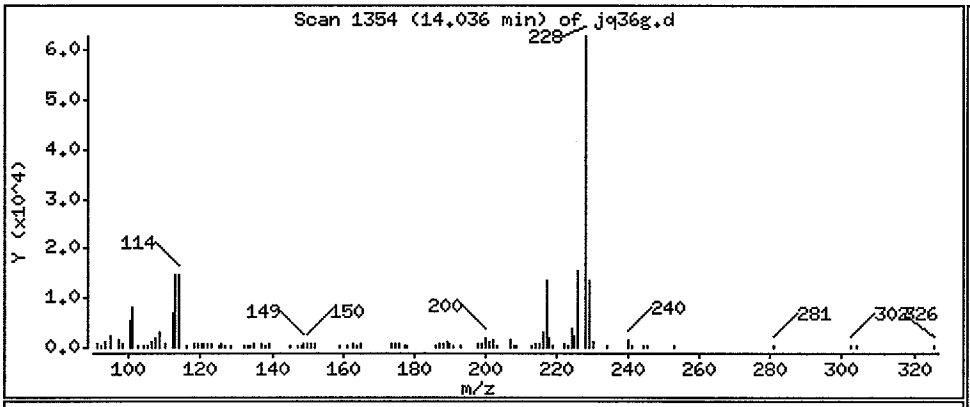
Operator: VTS

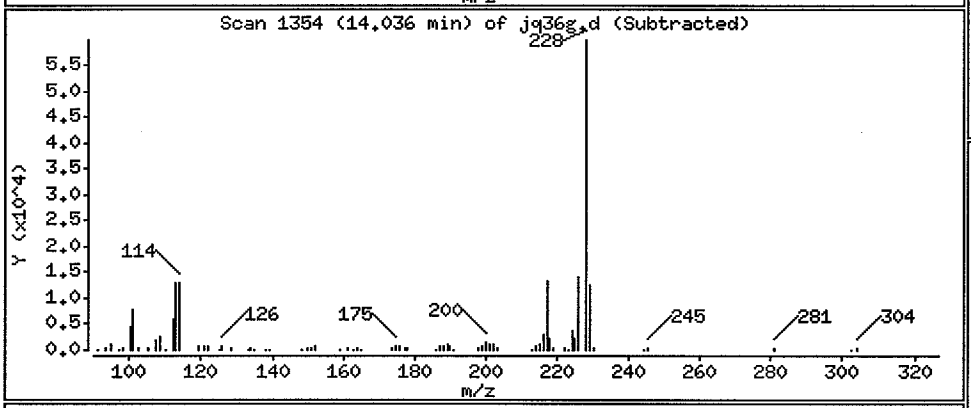
Column phase: ZB-5

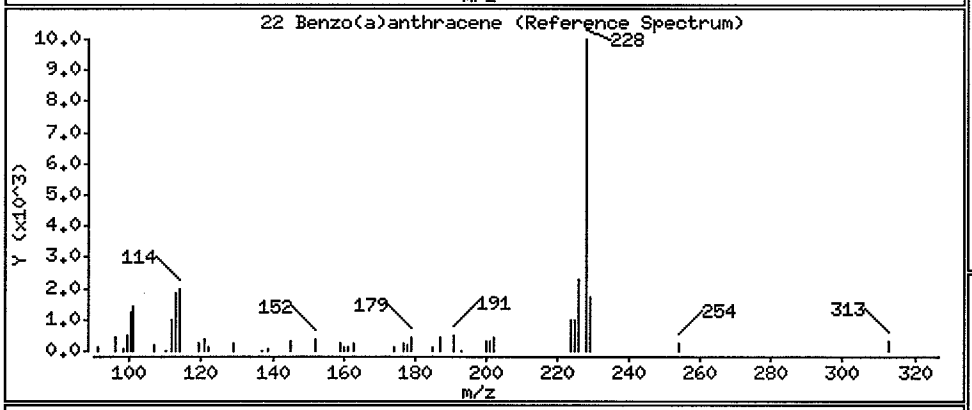
Column diameter: 0.25

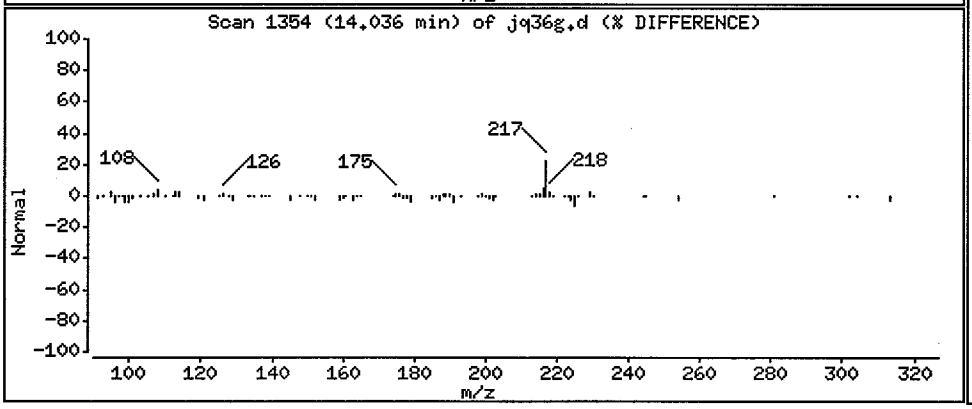
22 Benzo(a)anthracene

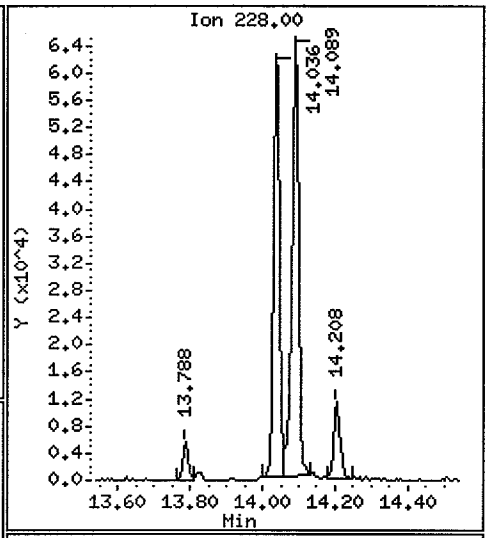
Concentration: 2103 ug/kg

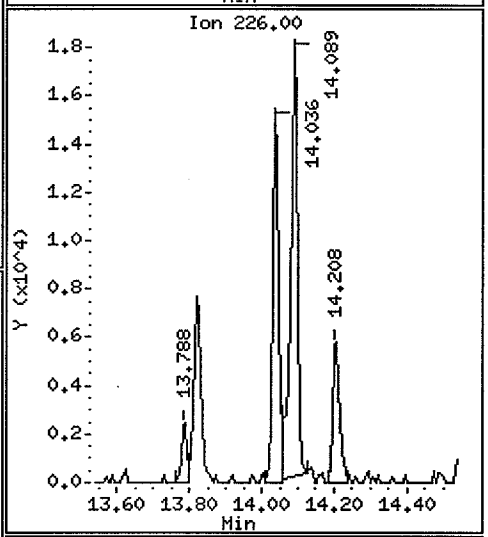


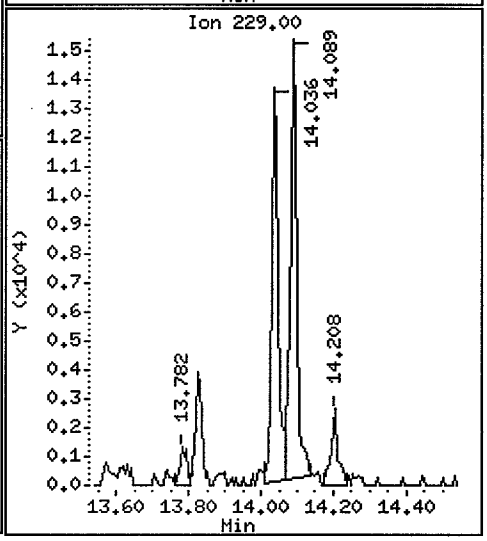












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

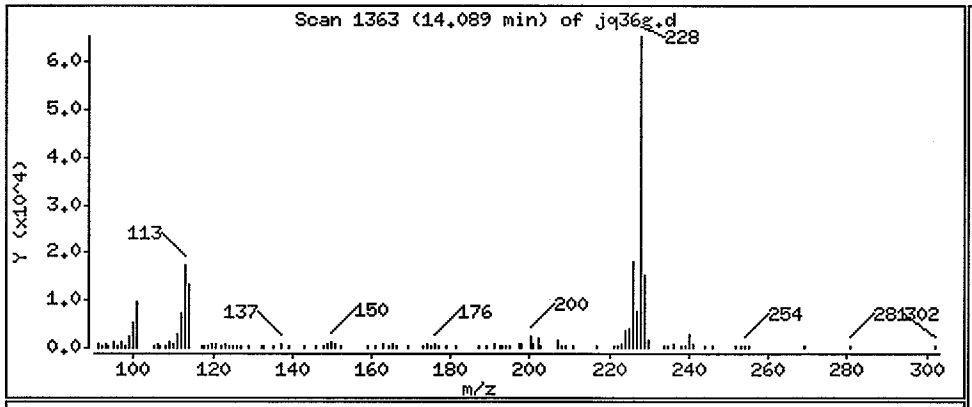
Operator: VTS

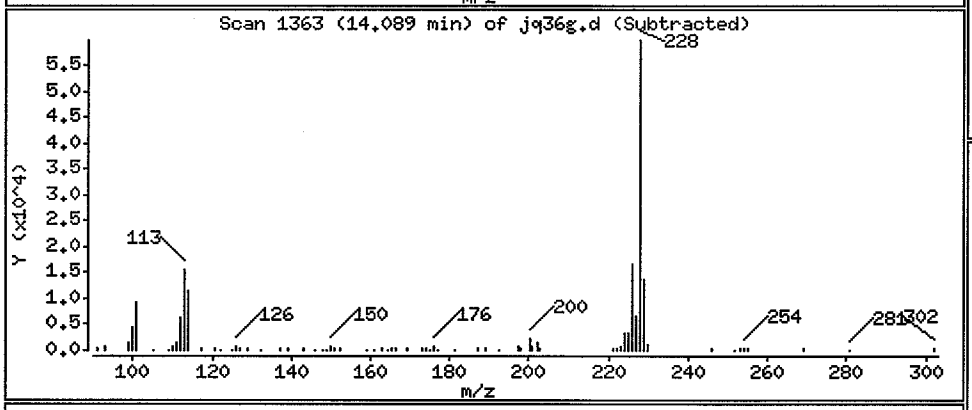
Column phase: ZB-5

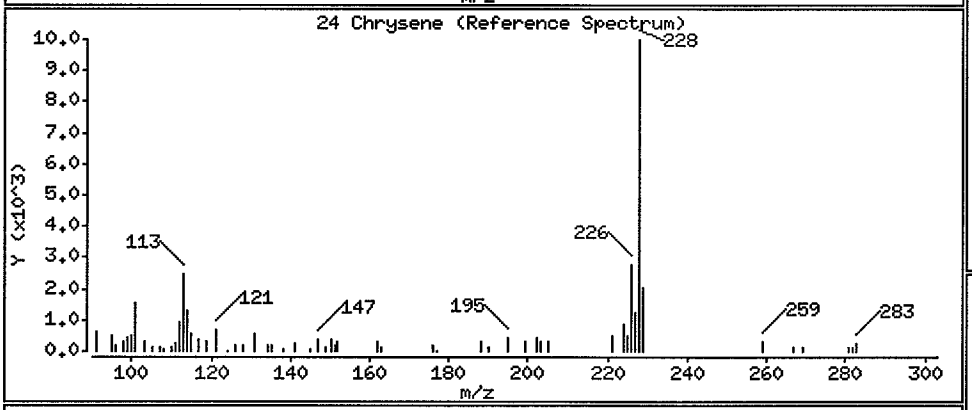
Column diameter: 0.25

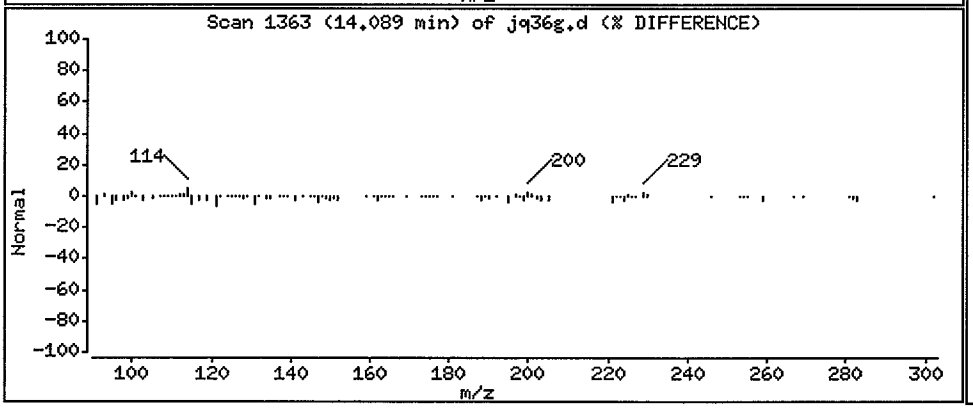
24 Chrysene

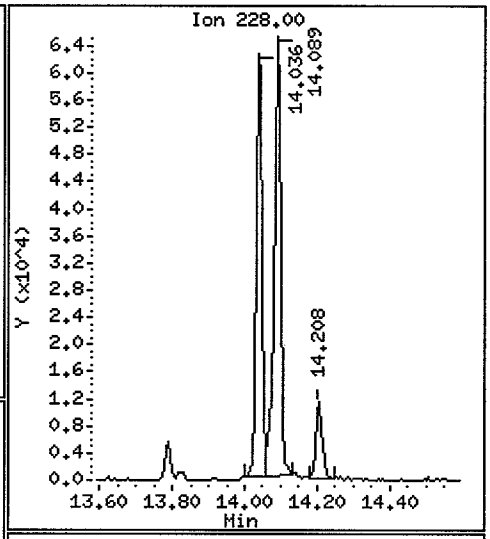
Concentration: 2667 ug/kg

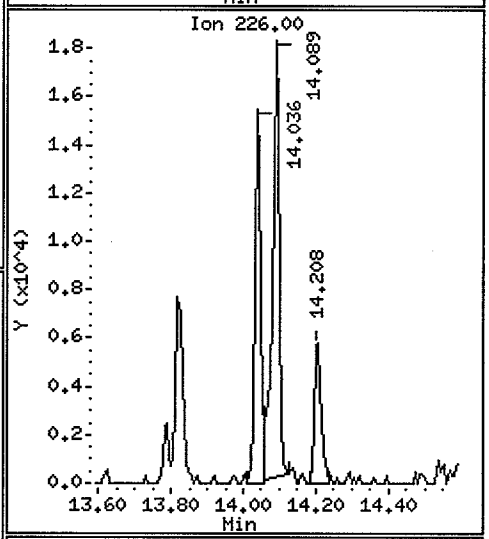


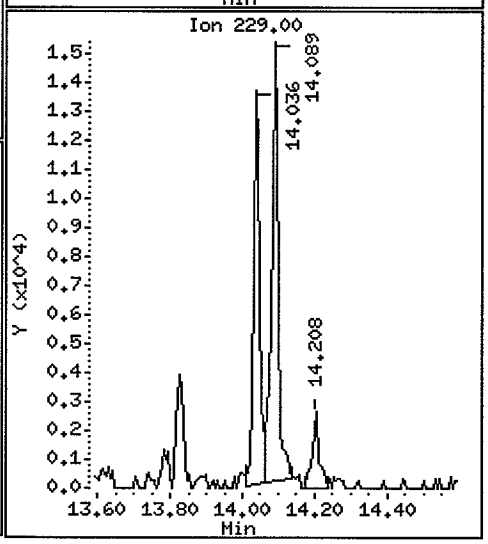












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

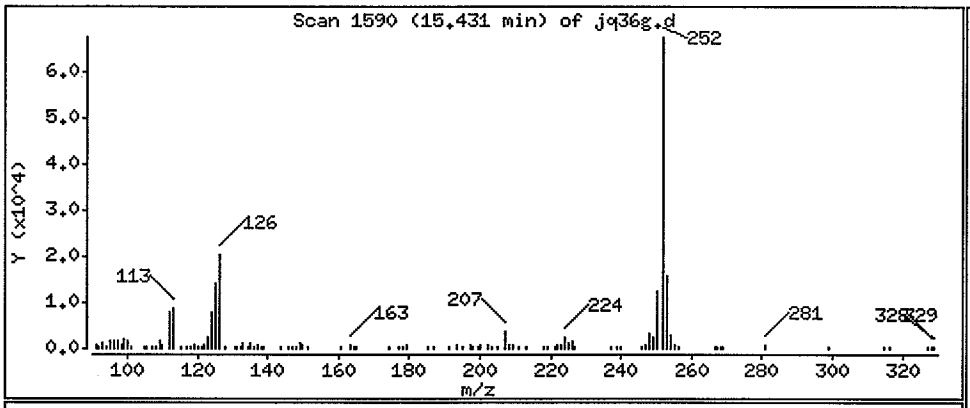
Operator: VTS

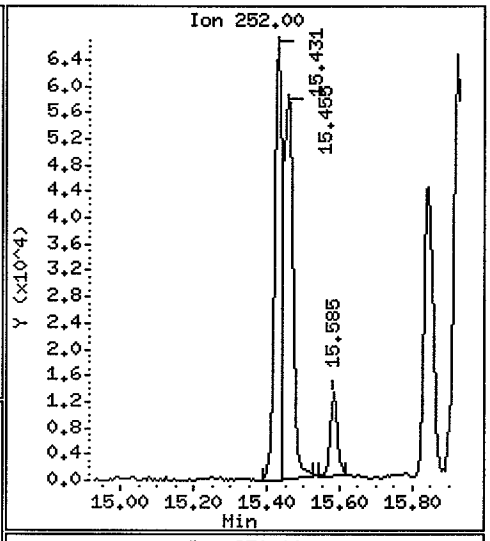
Column phase: ZB-5

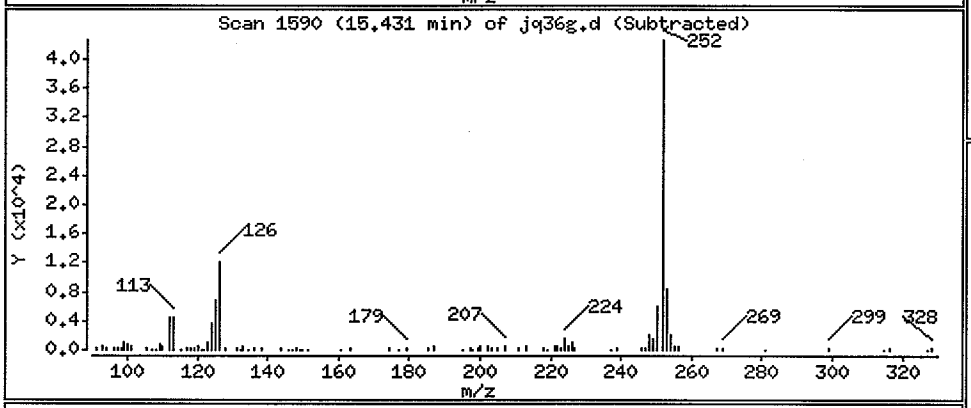
Column diameter: 0.25

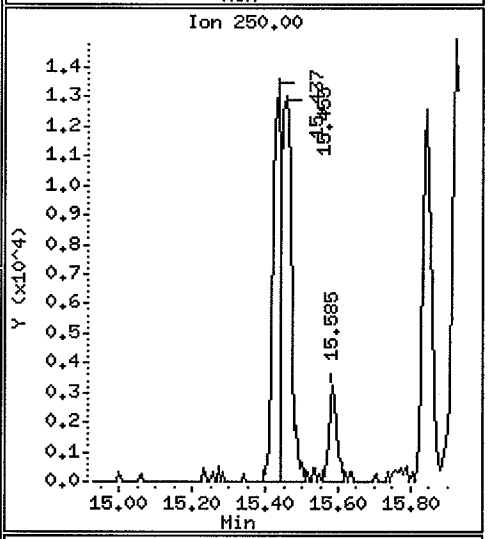
28 Benzo(b)fluoranthene

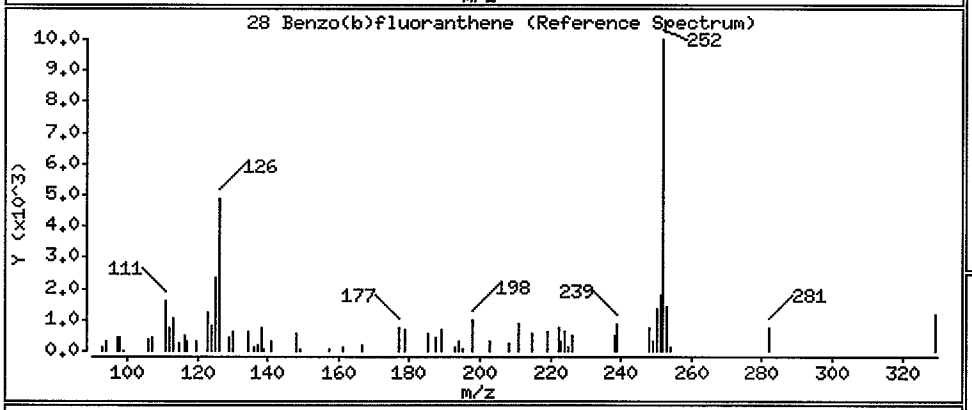
Concentration: 2532 ug/kg

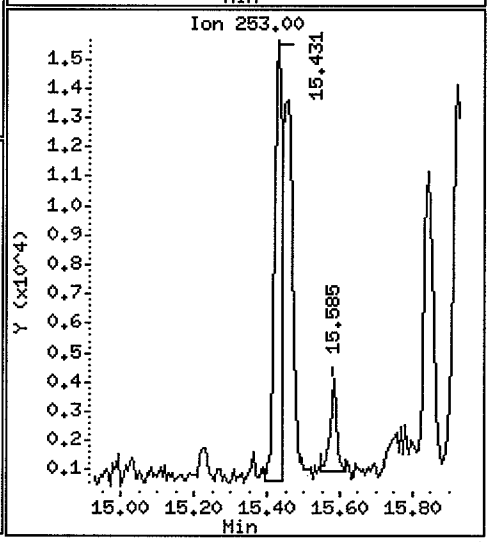


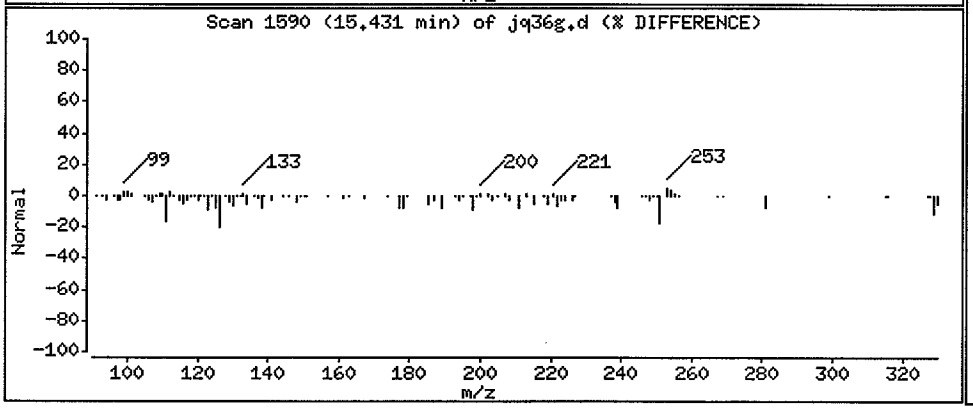












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

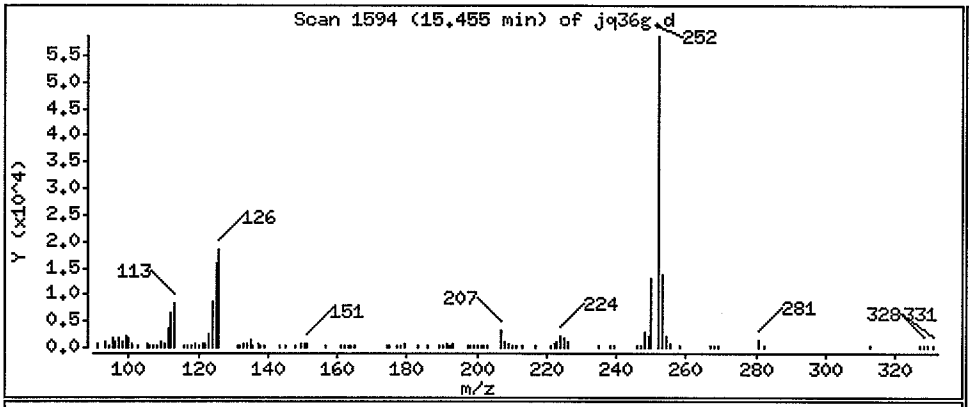
Operator: VTS

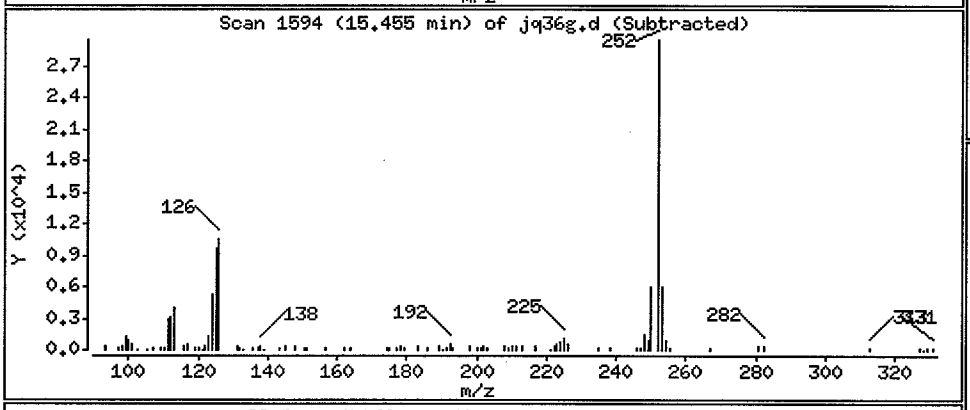
Column phase: ZB-5

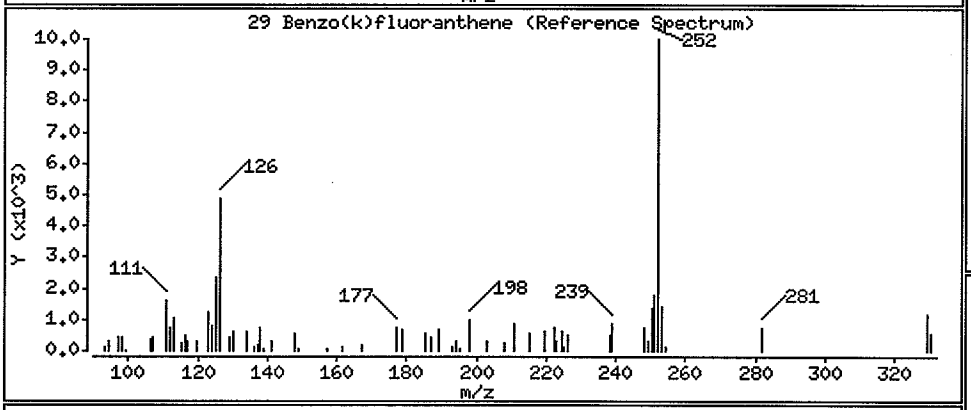
Column diameter: 0.25

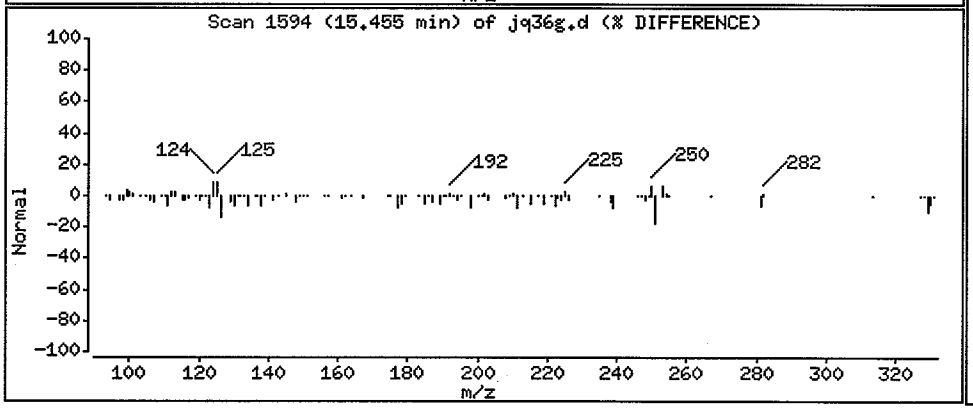
29 Benzo(k)fluoranthene

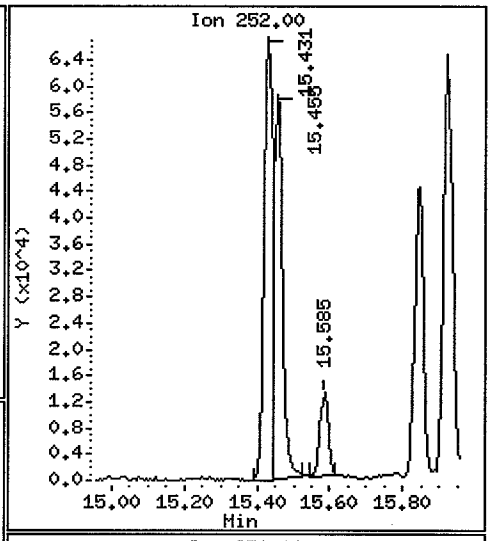
Concentration: 2418 ug/kg

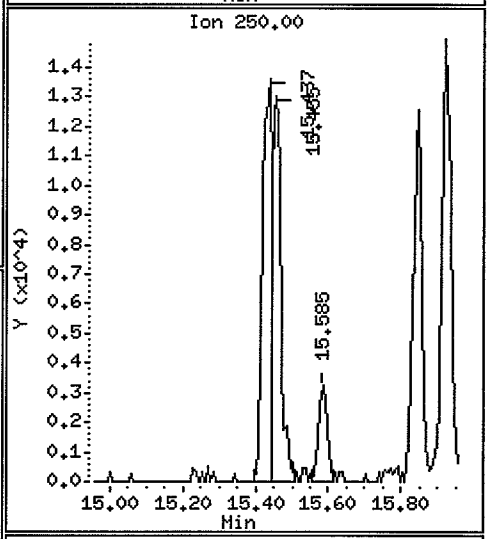


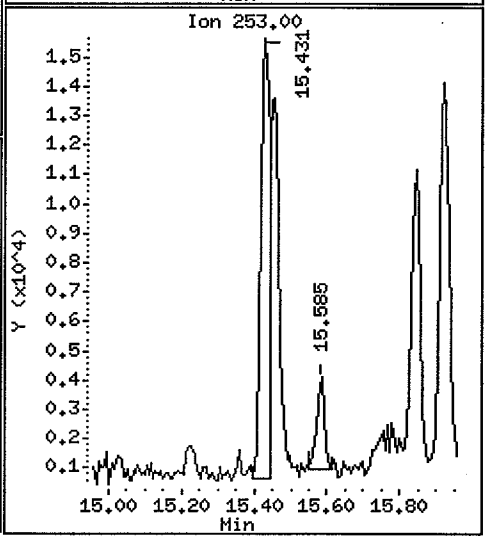












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

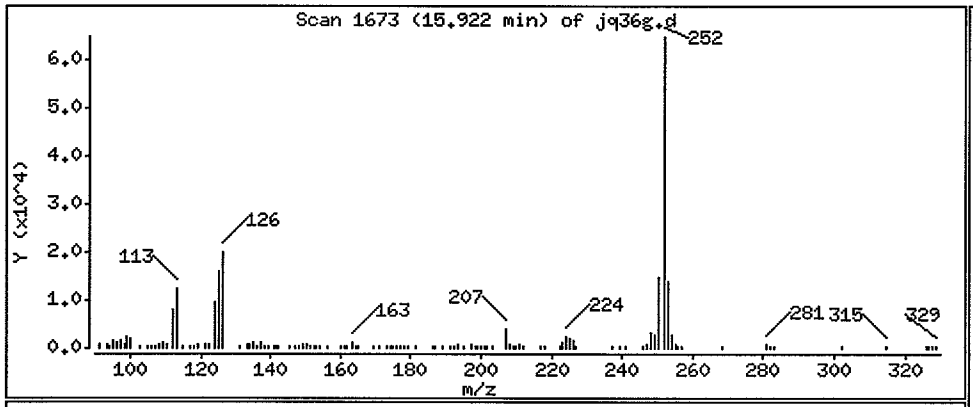
Operator: VTS

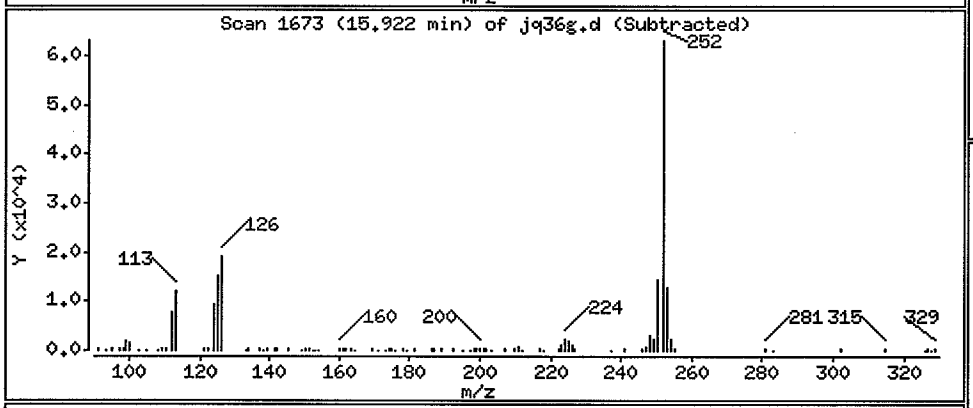
Column phase: ZB-5

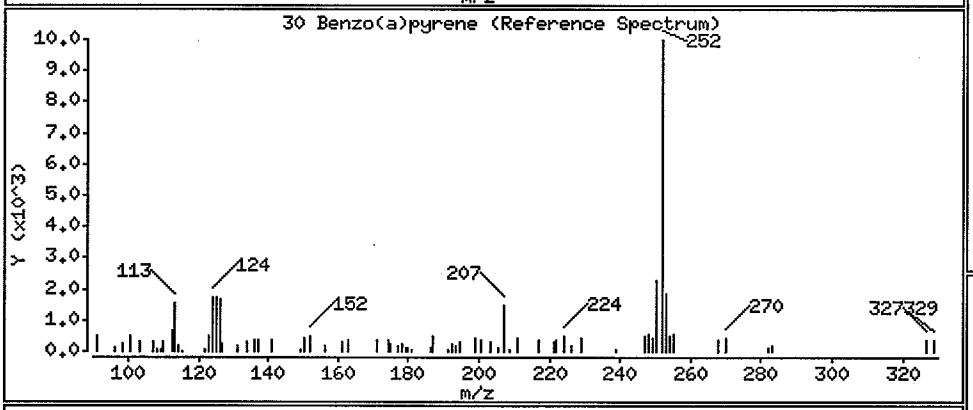
Column diameter: 0.25

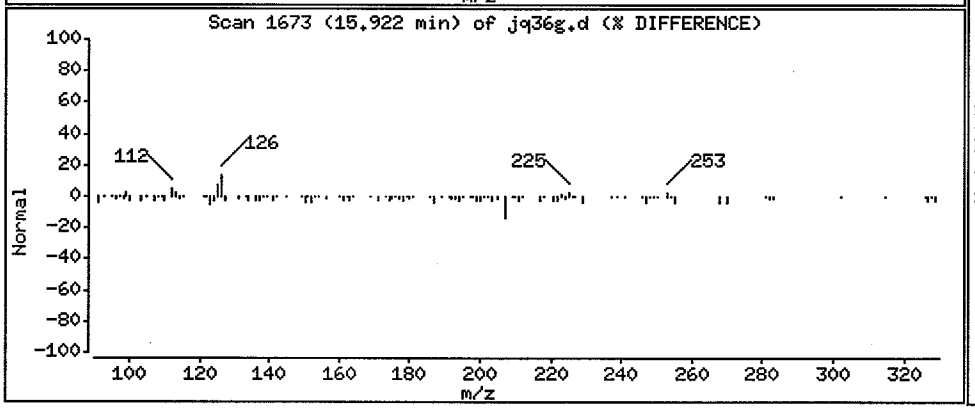
30 Benzo(a)pyrene

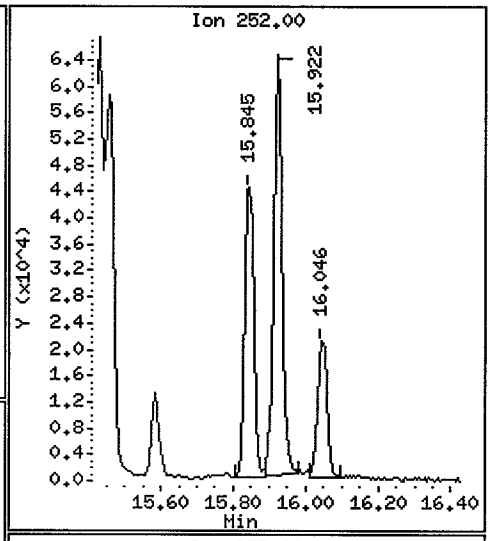
Concentration: 2682 ug/kg

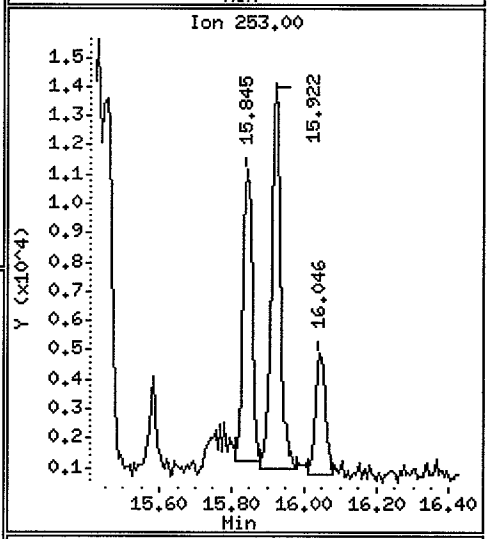


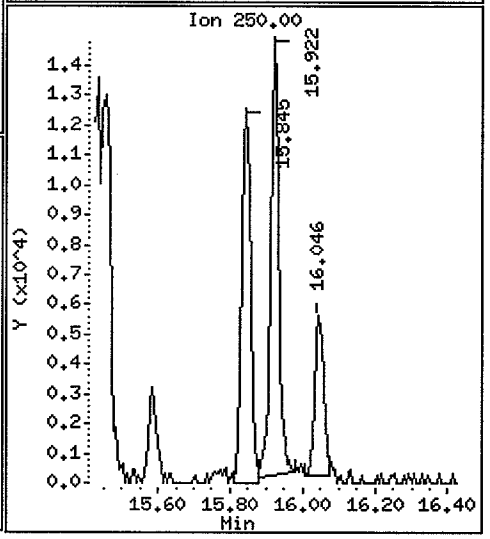












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

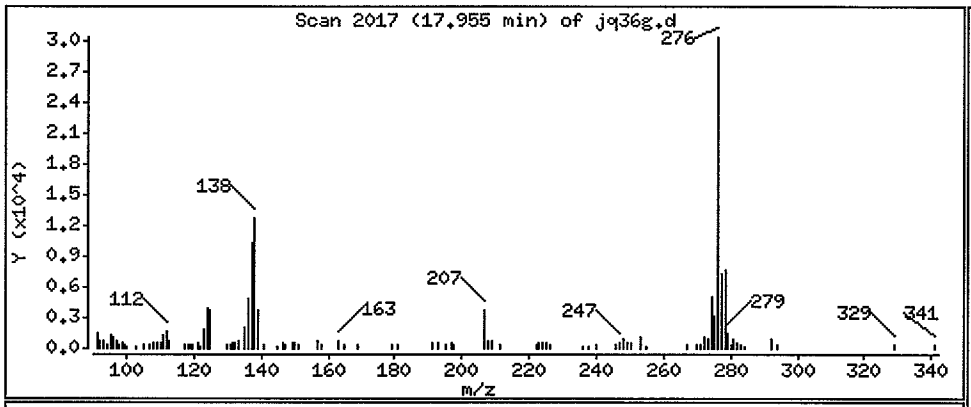
Operator: VTS

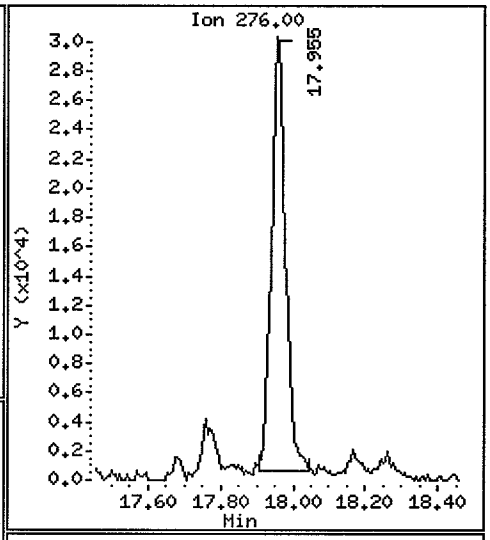
Column phase: ZB-5

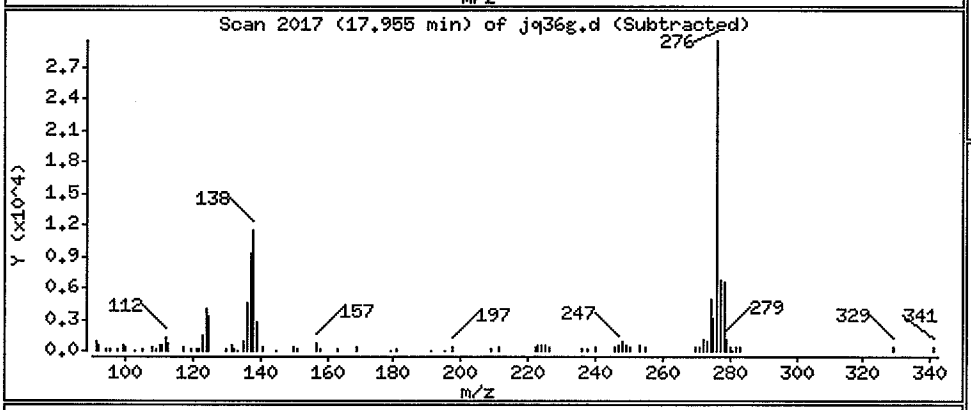
Column diameter: 0.25

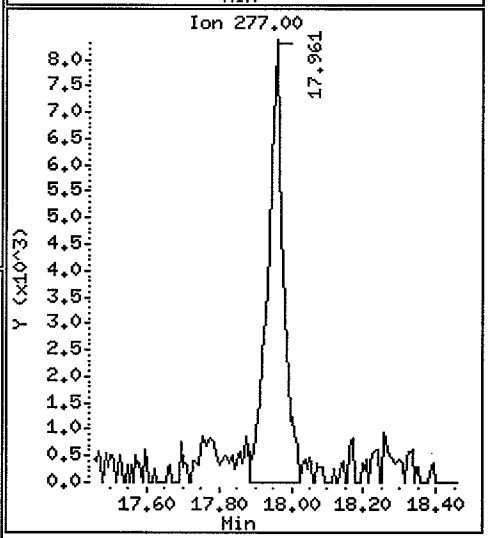
33 Indeno(1,2,3-cd)pyrene

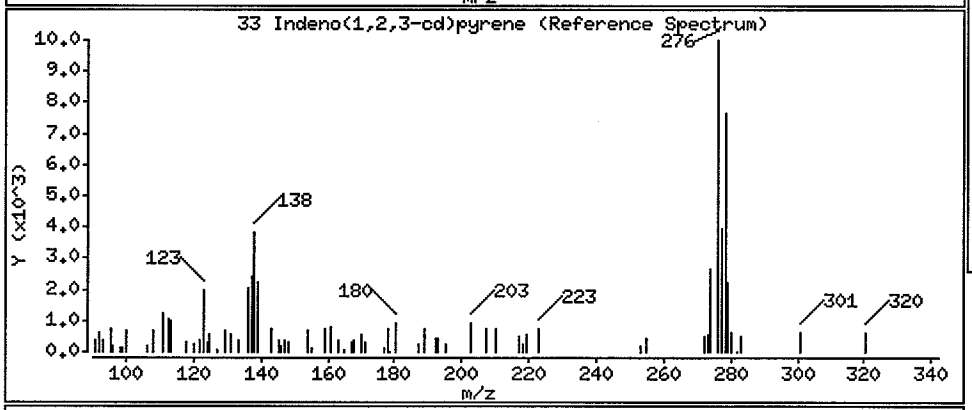
Concentration: 1746 ug/kg

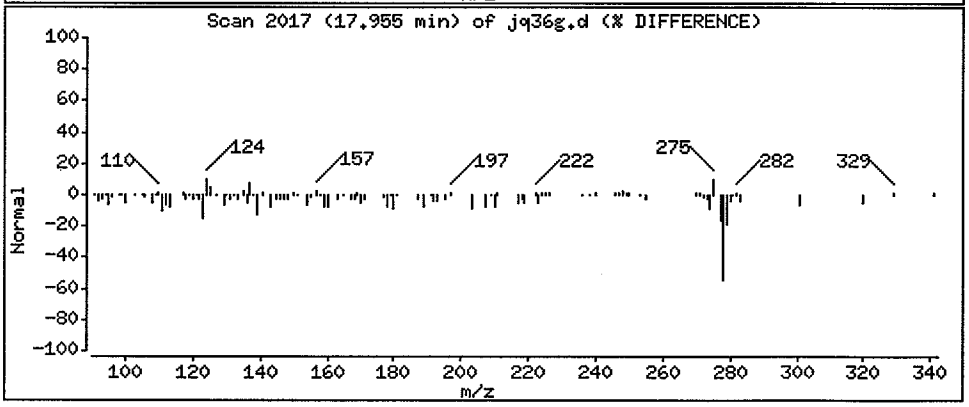












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

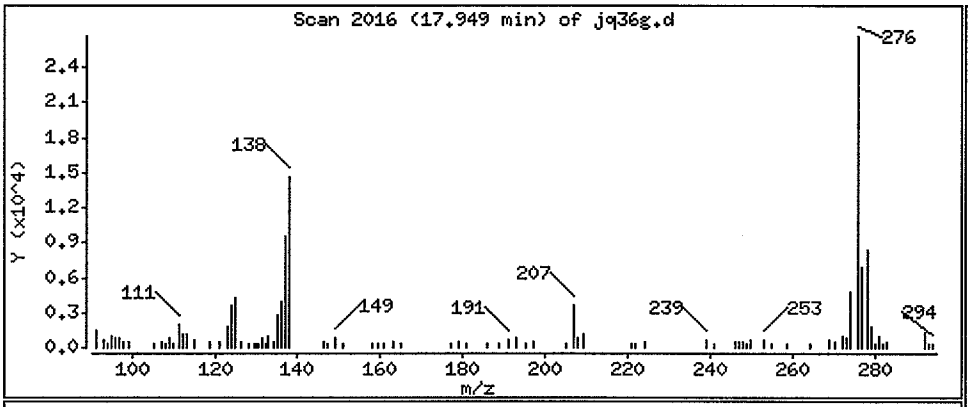
Operator: VTS

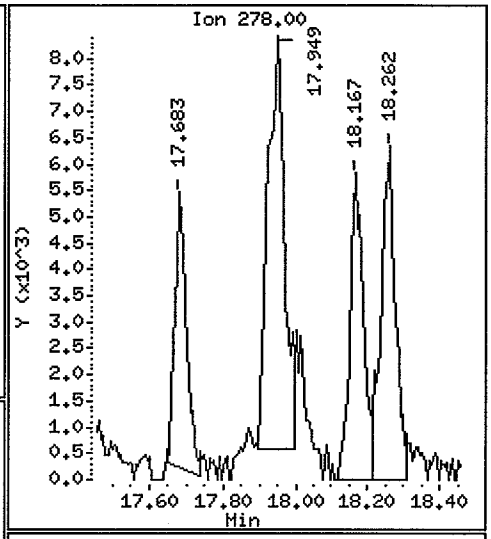
Column phase: ZB-5

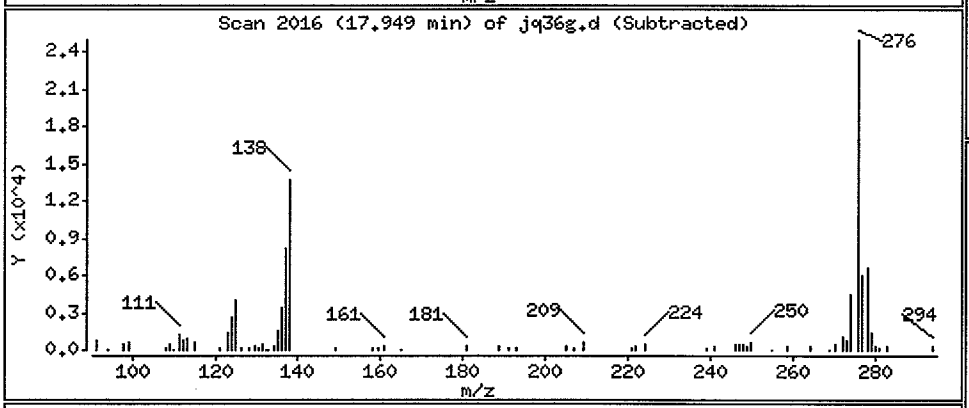
Column diameter: 0.25

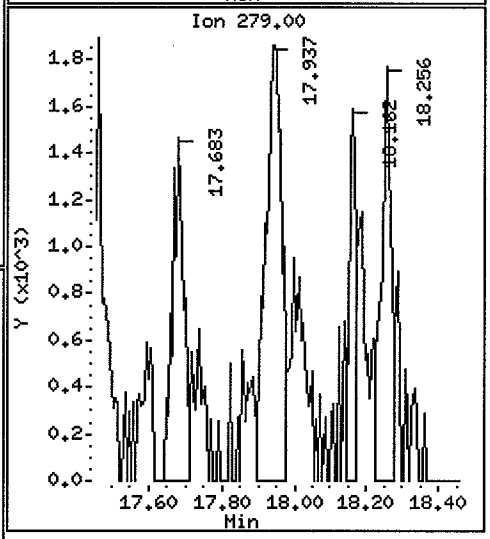
34 Dibenz(a,h)anthracene

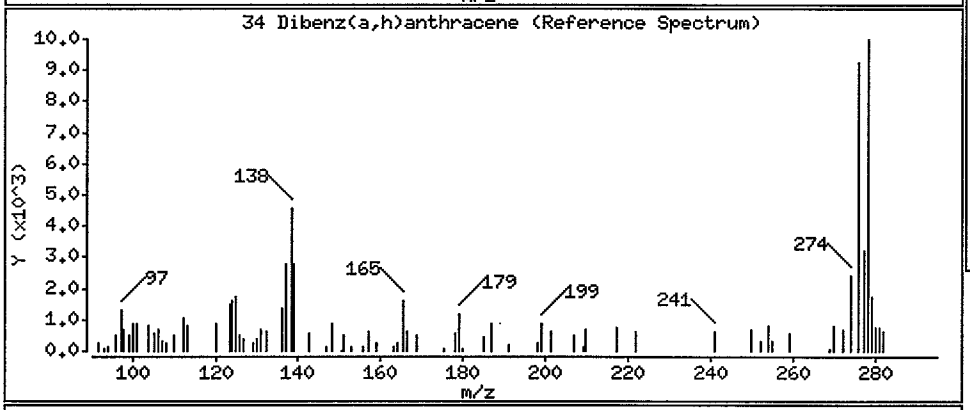
Concentration: 664.4 ug/kg

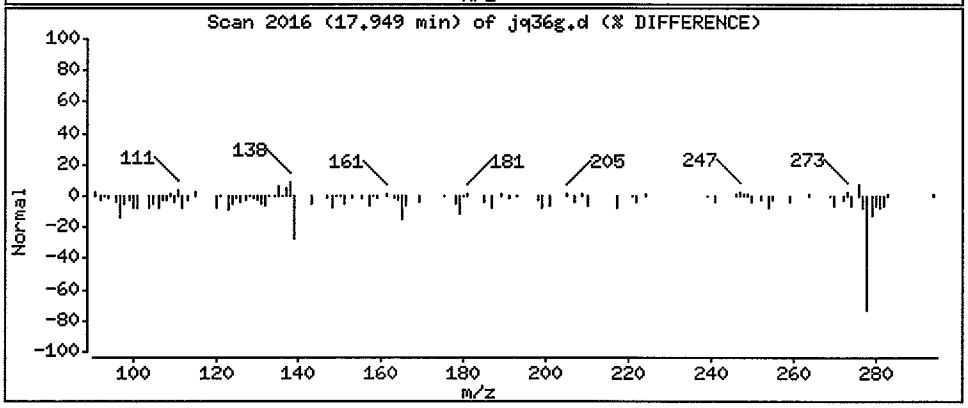












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

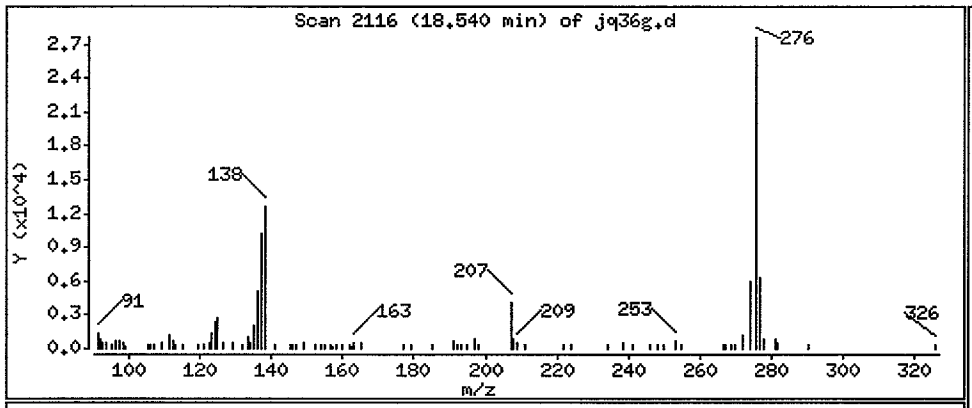
Operator: VTS

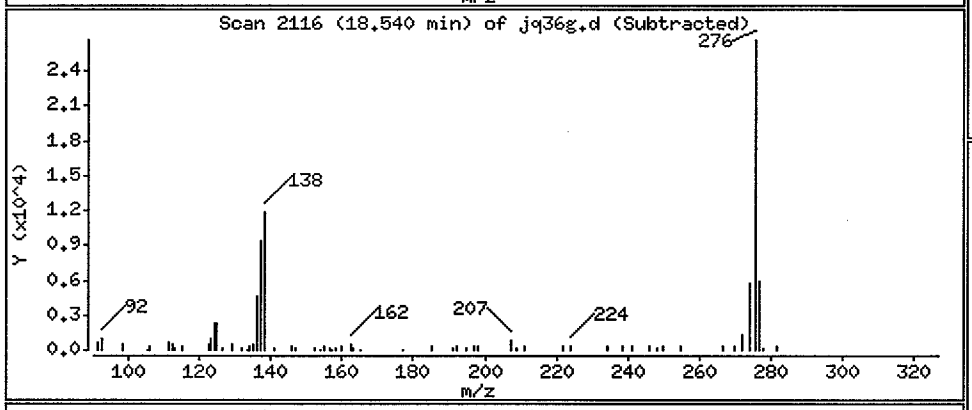
Column phase: ZB-5

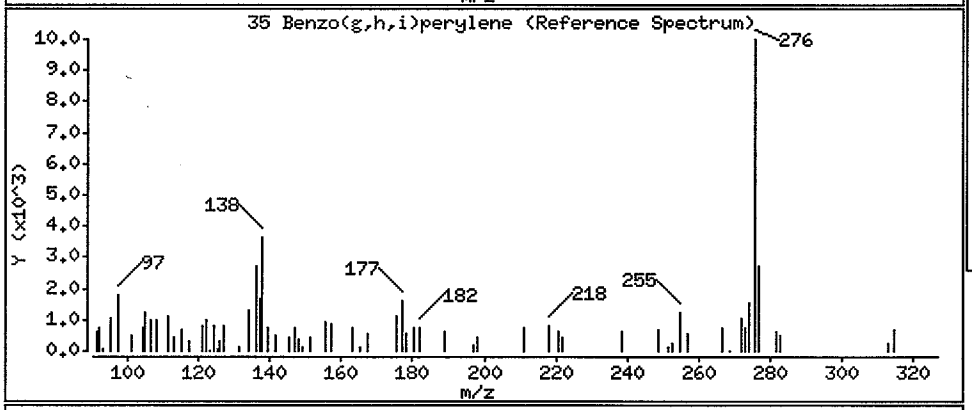
Column diameter: 0.25

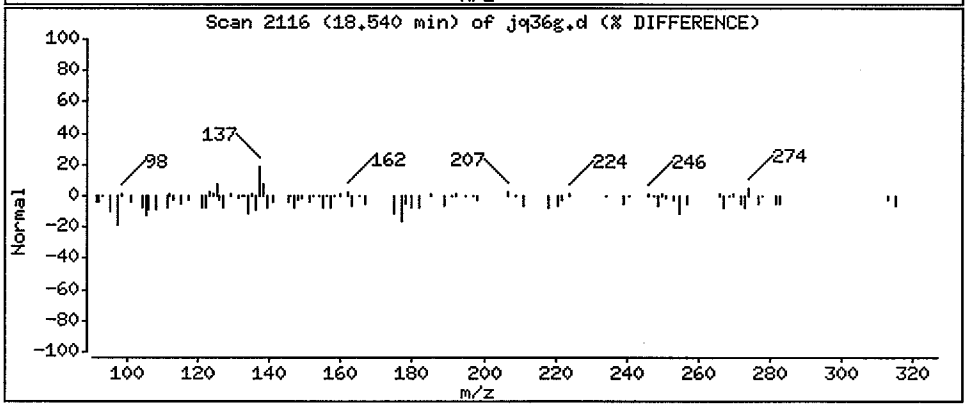
35 Benzo(g,h,i)perylene

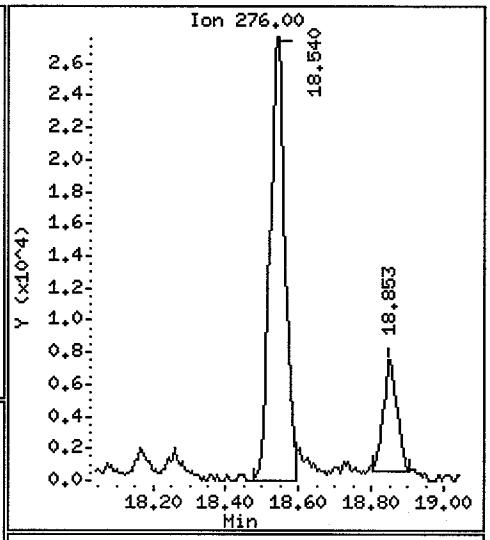
Concentration: 2047 ug/kg

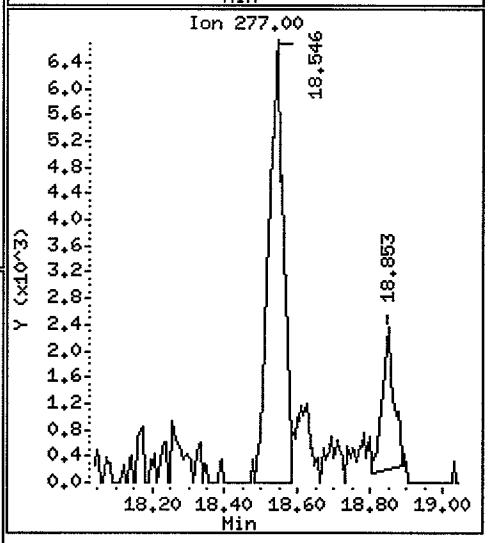












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

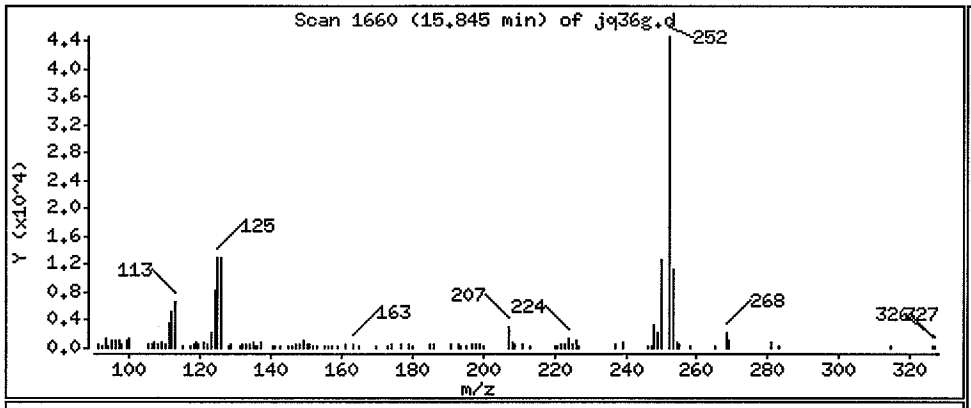
Operator: VTS

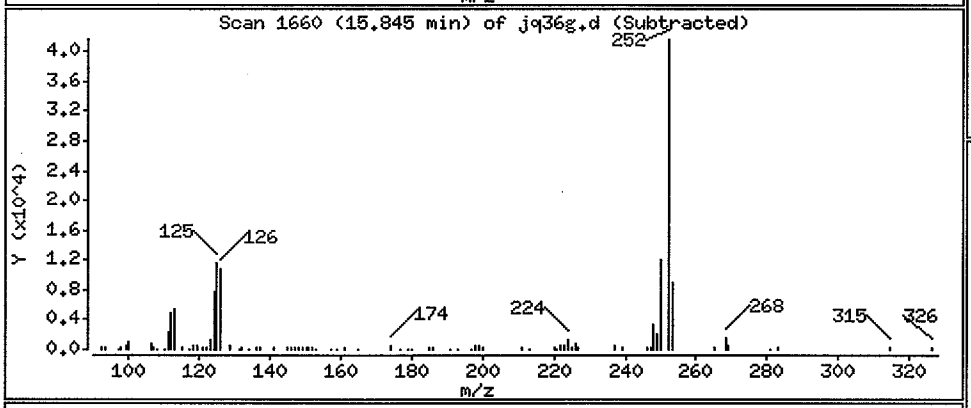
Column phase: ZB-5

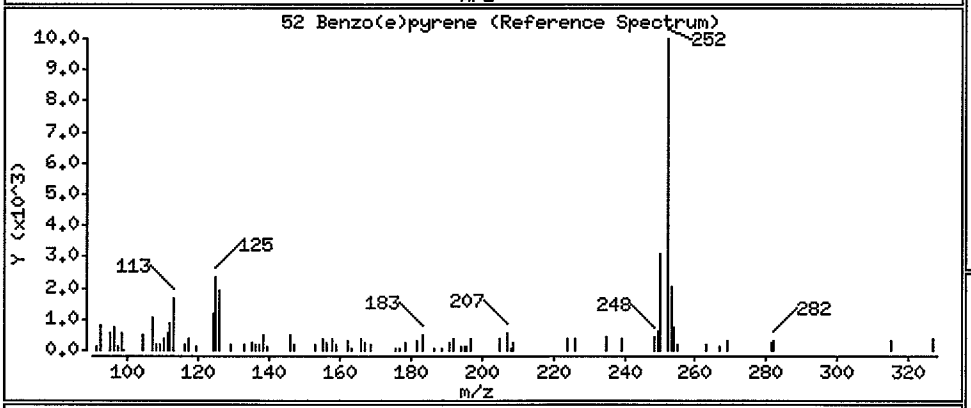
Column diameter: 0.25

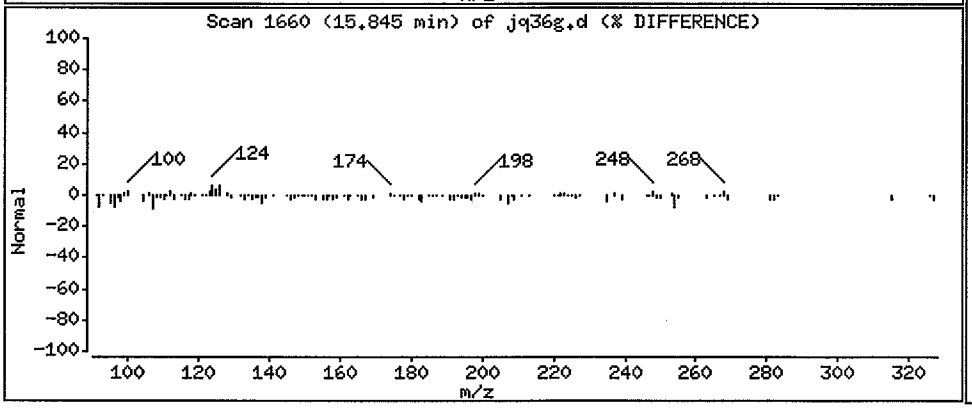
52 Benzo(e)pyrene

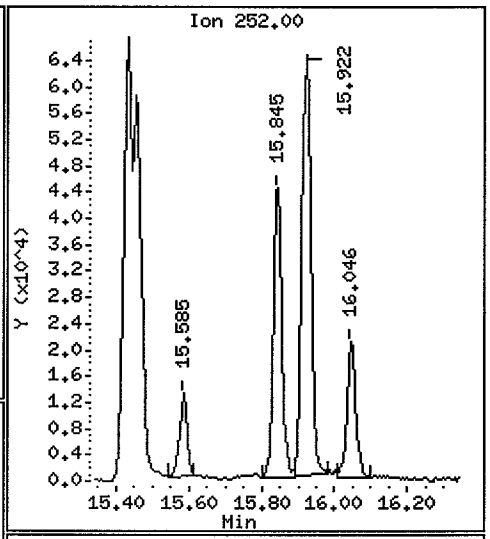
Concentration: 1715 ug/kg

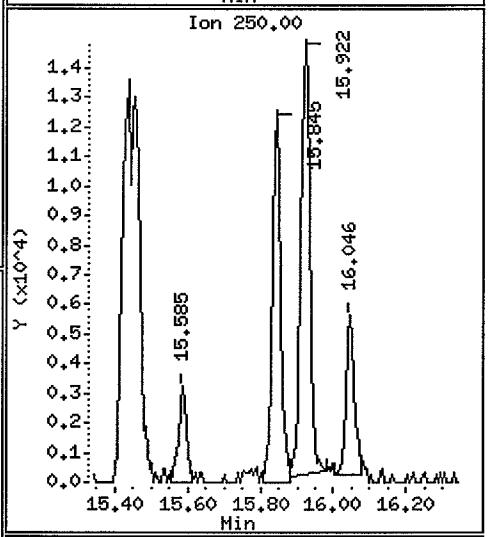


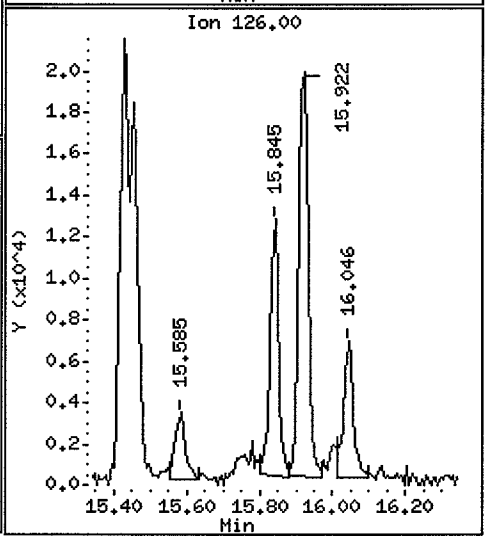












Data File: /chem3/nt1.i/20060809.b/jq36g.d

Date : 09-AUG-2006 13:32

Client ID: T4-S3-04-C

Instrument: nt1.i

Sample Info: JQ36G,10

Volume Injected (uL): 1.0

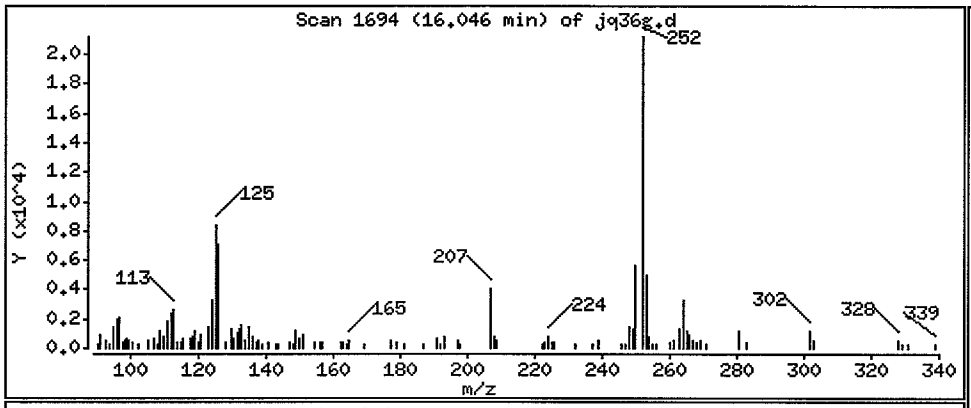
Operator: VTS

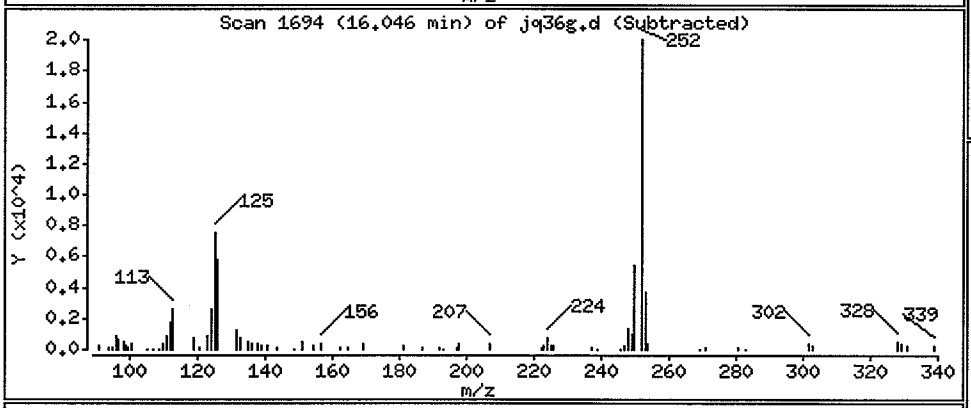
Column phase: ZB-5

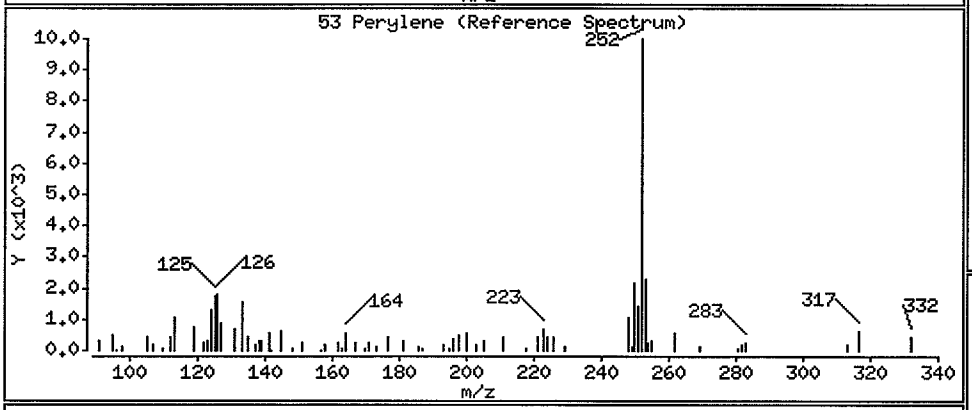
Column diameter: 0.25

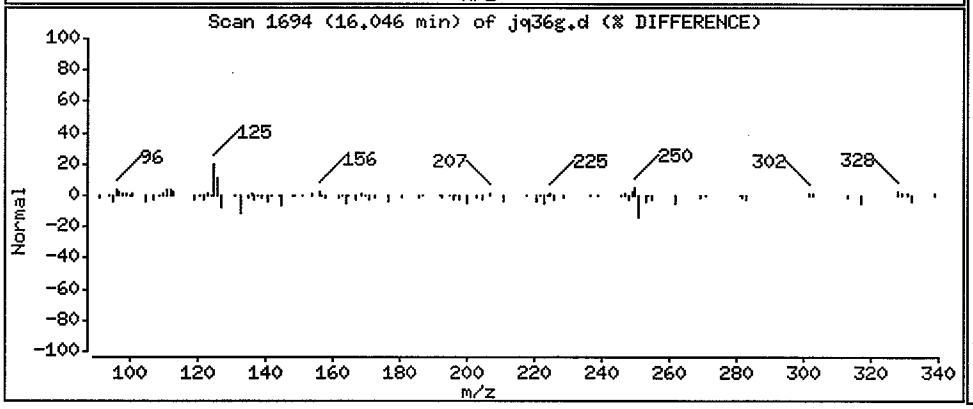
53 Perylene

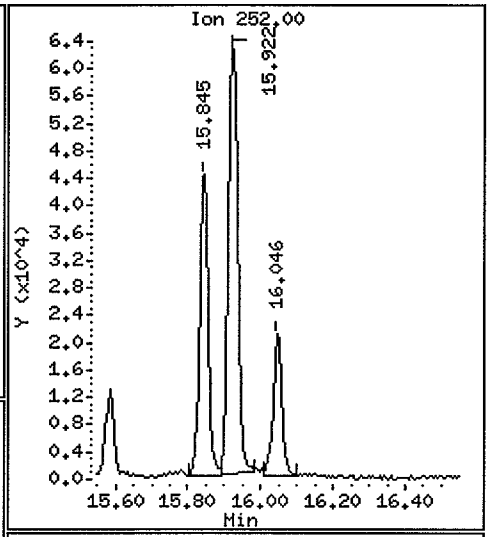
Concentration: 863.6 ug/kg

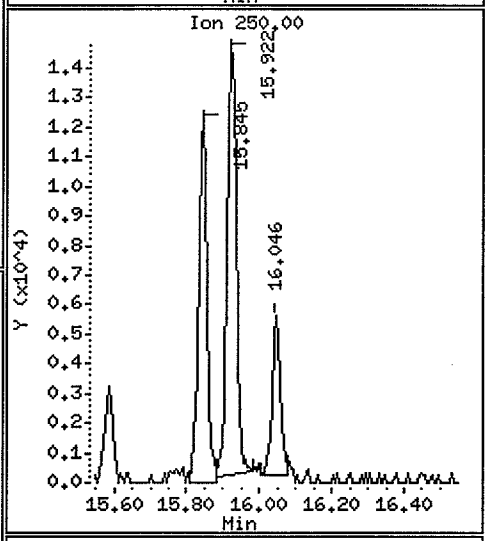


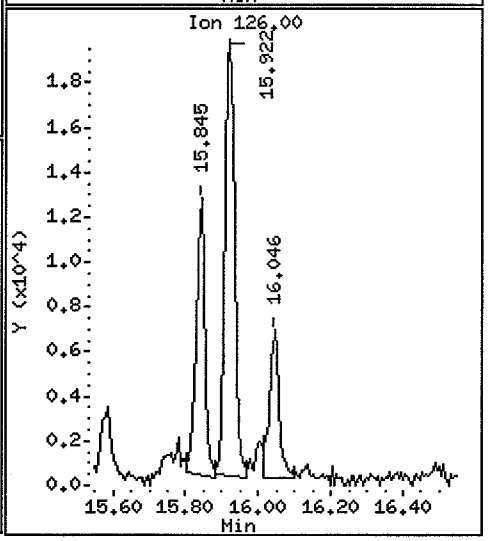












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-04-D
SAMPLE

Lab Sample ID: JQ36H
LIMS ID: 06-12979
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 18:21
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.3%
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**6.4**
91-57-6	**2-Methylnaphthalene**	**4.9**	**3.9 J**
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**	**29**
86-73-7	**Fluorene**	**4.9**	**18**
85-01-8	**Phenanthrene**	**4.9**	**130**
120-12-7	**Anthracene**	**4.9**	**25**
206-44-0	**Fluoranthene**	**4.9**	**250**
129-00-0	**Pyrene**	**4.9**	**220**
56-55-3	**Benzo(a)anthracene**	**4.9**	**160**
218-01-9	**Chrysene**	**4.9**	**200**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**180**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**190**
50-32-8	**Benzo(a)pyrene**	**4.9**	**200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**120**
53-70-3	**Dibenz(a,h)anthracene**	**4.9**	**48**
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**140**
198-55-0	**Perylene**	**4.9**	**61**
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**	**7.8**
192-97-2	**Benzo(e)pyrene**	**4.9**	**130**
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracen	68.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36h.d
Lab Smp Id: JQ36H Client Smp ID: T4-S3-04-D
Inj Date : 10-AUG-2006 18:21
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36H
Misc Info : 06-12979
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 8
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	13.00000	Weight of sample extracted (g)
M	21.30000	% 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	6.871	6.874	(1.000)	281207	2.00000	
	2 Naphthalene	128	6.895	6.898	(1.003)	17800	0.12690	6.202
$	3 2-Methylnaphthalene-d10	152	7.628	7.630	(1.110)	135332	1.86845	91.31
	4 2-Methylnaphthalene	142	7.669	7.666	(1.116)	6825	0.08216	4.015 J
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.934	8.937	(1.000)	139188	2.00000	
	9 Acenaphthene	153	8.975	8.972	(1.005)	41281	0.60402	29.52
	10 Dibenzofuran	168	9.158	9.161	(1.025)	15625	0.15521	7.585
	11 Fluorene	166	9.584	9.587	(1.073)	28328	0.36147	17.67
*	15 Phenanthrene-d10	188	10.748	10.745	(1.000)	210504	2.00000	
	16 Phenanthrene	178	10.778	10.775	(1.003)	281244	2.60295	127.2
	17 Anthracene	178	10.831	10.828	(1.008)	55060	0.50993	24.92
	19 Fluoranthene	202	12.267	12.270	(1.141)	555375	5.03940	246.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.557	12.554	(0.893)	529392	4.52202	221.0
	22 Benzo(a)anthracene	228	14.034	14.037	(0.998)	348671	3.17587	155.2
*	23 Chrysene-d12	240	14.058	14.055	(1.000)	182315	2.00000	
	24 Chrysene	228	14.087	14.090	(1.002)	402972	3.97946	194.5
	28 Benzo(b)fluoranthene	252	15.429	15.426	(0.964)	445833	3.72911	182.2
	29 Benzo(k)fluoranthene	252	15.459	15.455	(0.966)	504444	3.95777	193.4
	30 Benzo(a)pyrene	252	15.926	15.916	(0.995)	483208	4.14791	202.7
*	31 Perylene-d12	264	16.002	15.999	(1.000)	211835	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.959	17.949	(1.122)	336220	2.50970	122.7
$	32 Dibenz(a,h)anthrancene-d14	292	17.882	17.873	(1.117)	167121	2.06147	100.7
	34 Dibenz(a,h)anthracene	278	17.947	17.944	(1.121)	107311	0.98052	47.92
	35 Benzo(g,h,i)perylene	276	18.544	18.529	(1.159)	306251	2.75004	134.4
	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	11.546	11.549	(0.821)	11813	0.15829	7.736
	52 Benzo(e)pyrene	252	15.843	15.840	(0.990)	331543	2.57110	125.7
	53 Perylene	252	16.044	16.040	(1.003)	151263	1.24934	61.06

UTS

8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36h.d
Lab Smp Id: JQ36H
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12979

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-S3-04-D
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	281207	11.06
8 Acenaphthene-d10	122198	61099	244396	139188	13.90
15 Phenanthrene-d10	181565	90782	363130	210504	15.94
23 Chrysene-d12	143956	71978	287912	182315	26.65
31 Perylene-d12	157395	78698	314790	211835	34.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.04
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.03
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.03
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.02
31 Perylene-d12	16.00	15.50	16.50	16.00	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: JQ36H
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12979

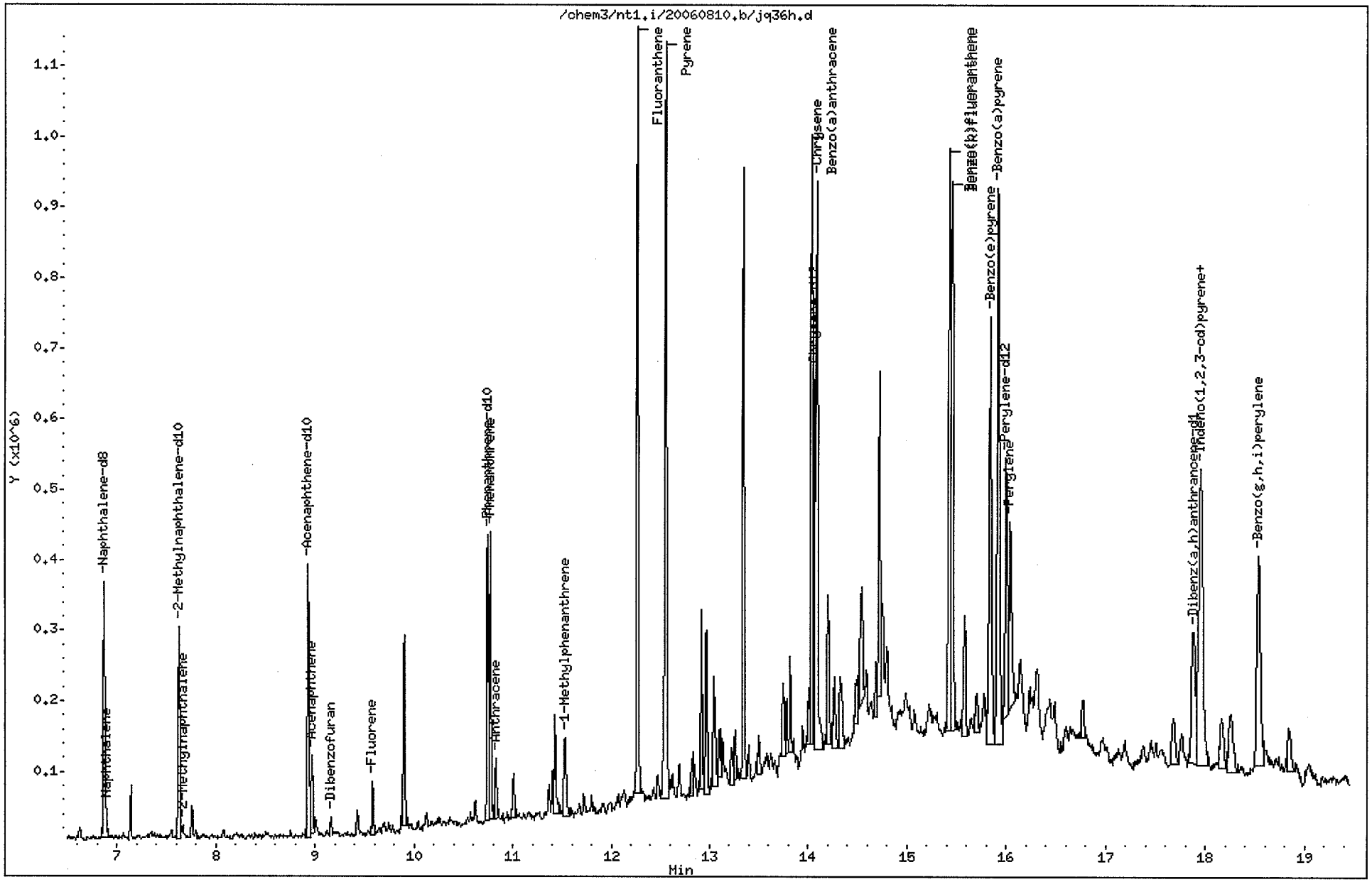
Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-S3-04-D
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	146.6	91.31	62.28	32-97
$ 32 Dibenz(a,h)anthran	146.6	100.7	68.72	21-105

Data File: /chem3/nt1.i/20060810.b/jq36h.d
Date : 10-AUG-2006 18:21
Client ID: T4-S3-04-D
Sample Info: JQ36H
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0392



Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

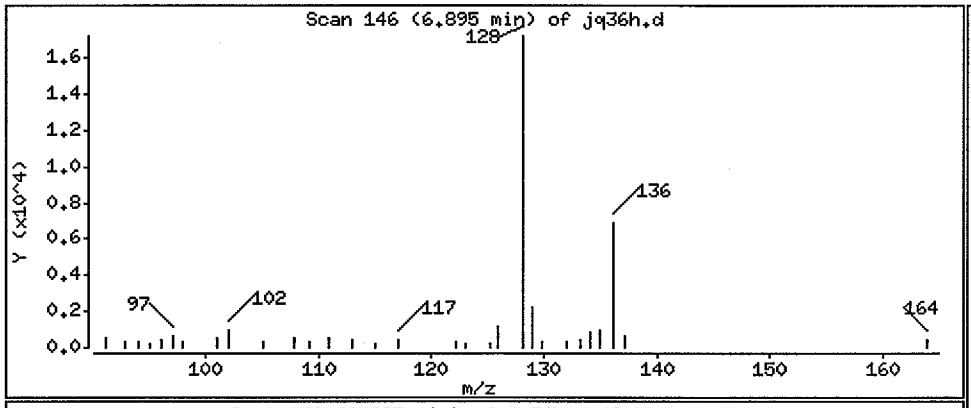
Operator: VTS

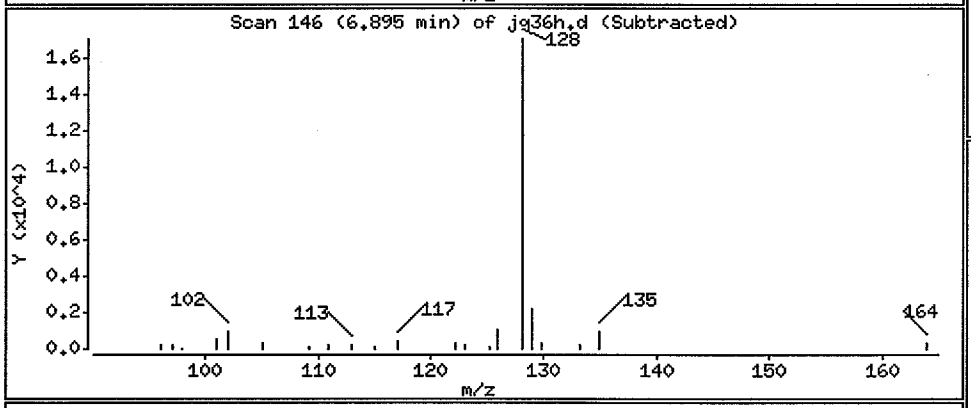
Column phase: ZB-5

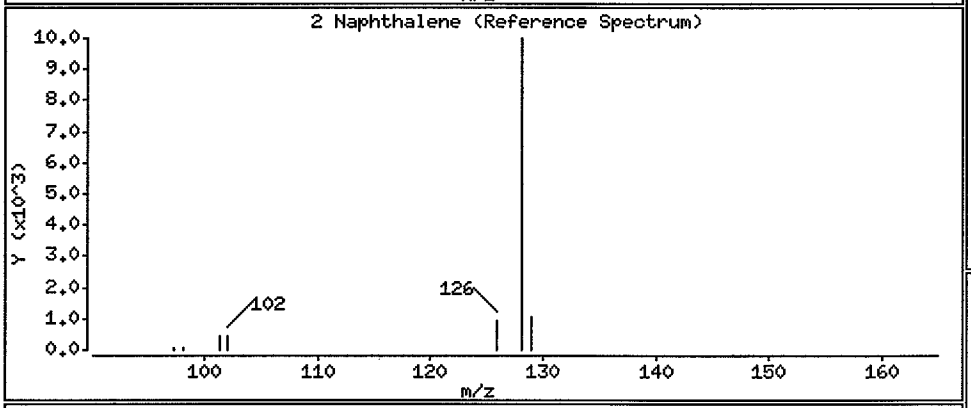
Column diameter: 0.25

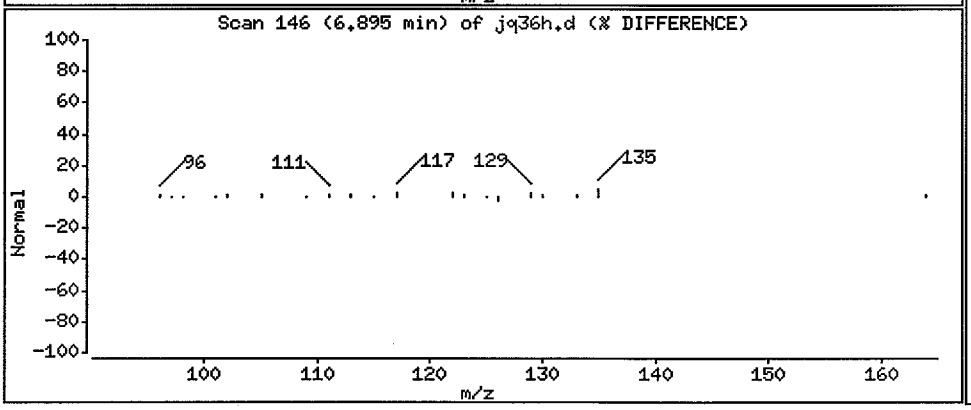
2 Naphthalene

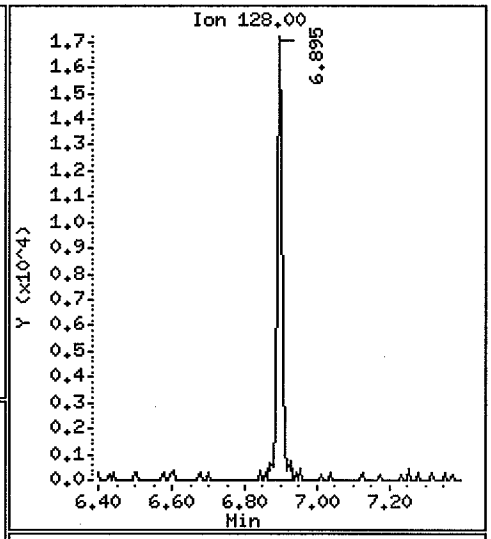
Concentration: 6.202 ug/kg

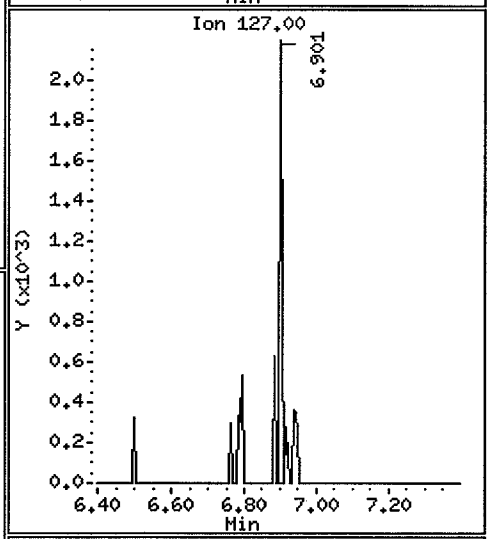


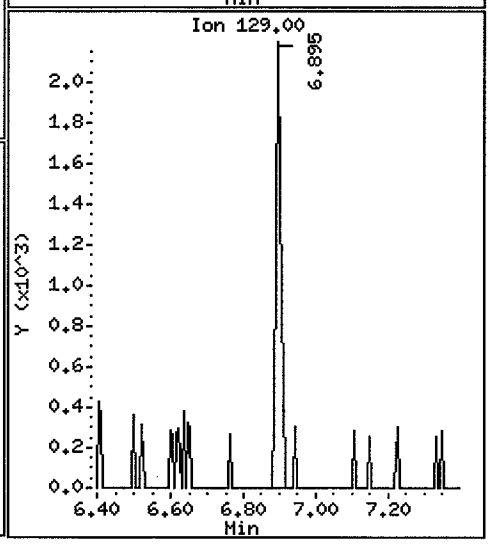












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

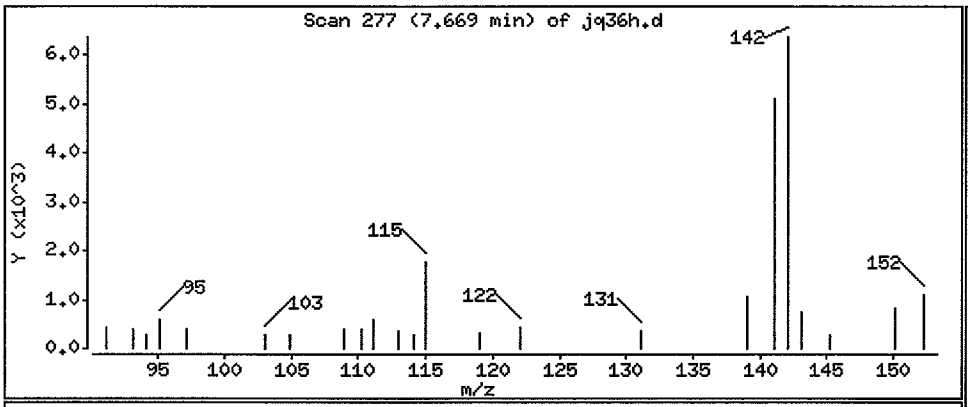
Operator: VTS

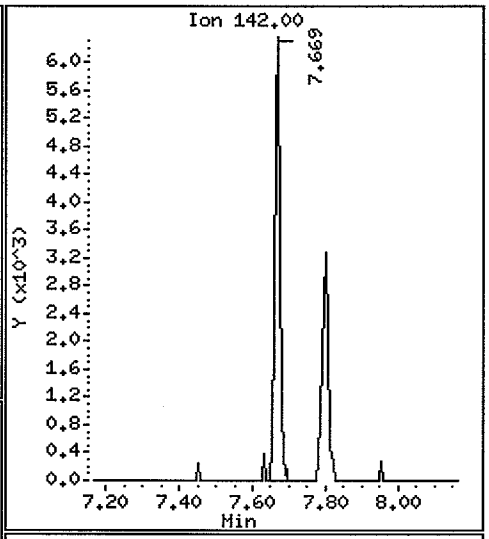
Column phase: ZB-5

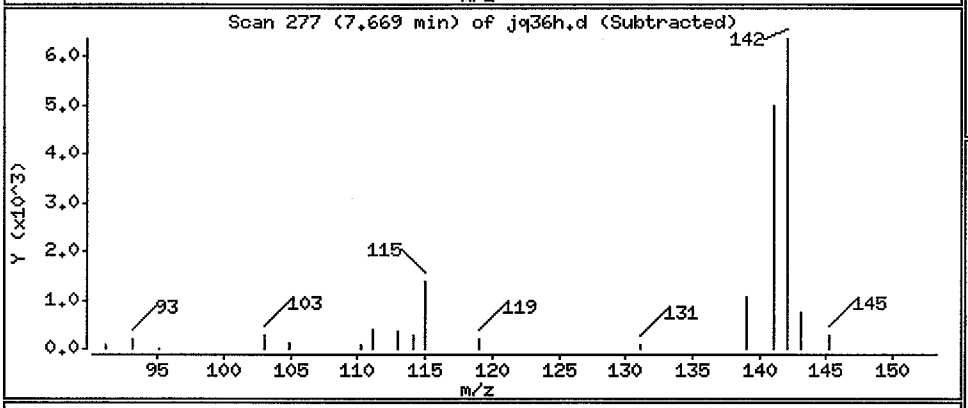
Column diameter: 0.25

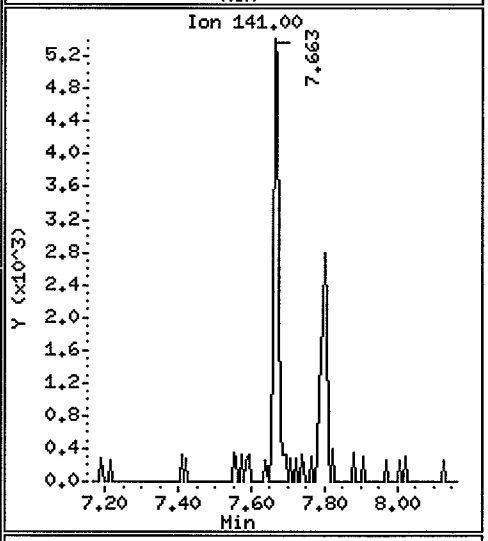
4 2-Methylnaphthalene

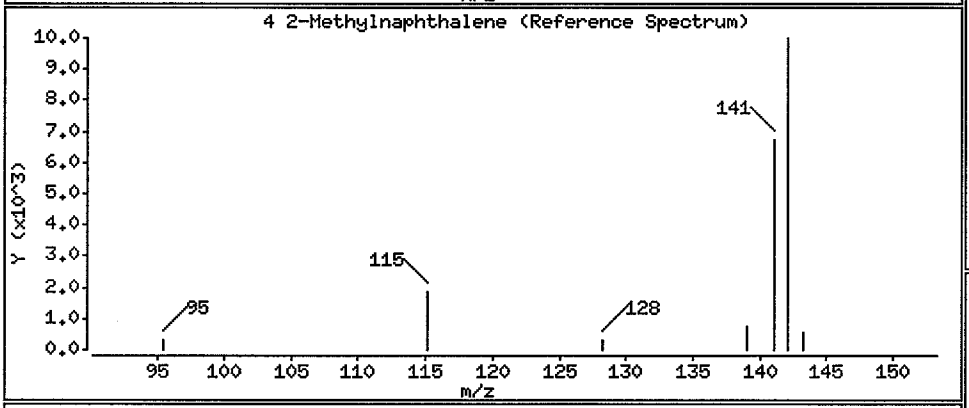
Concentration: 4.015 ug/kg

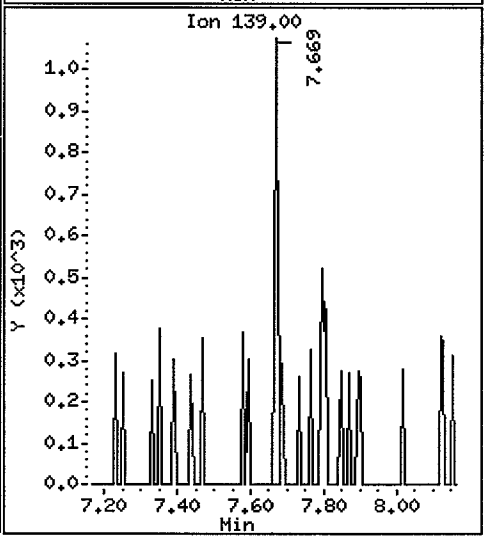


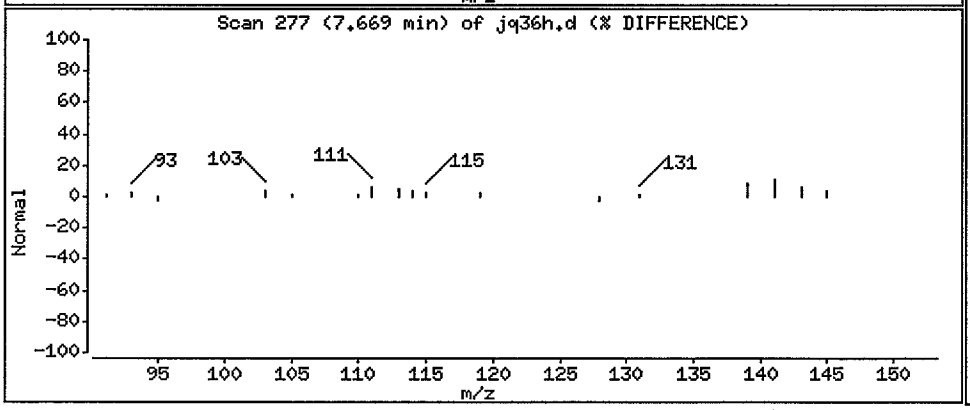












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

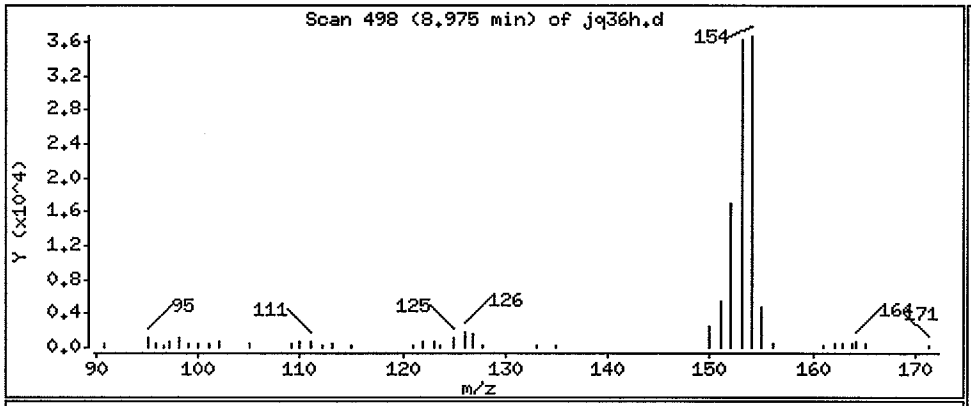
Operator: VTS

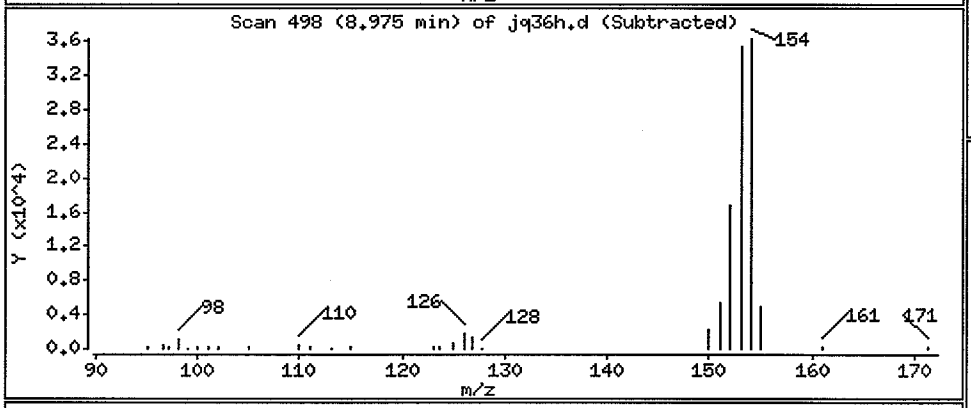
Column phase: ZB-5

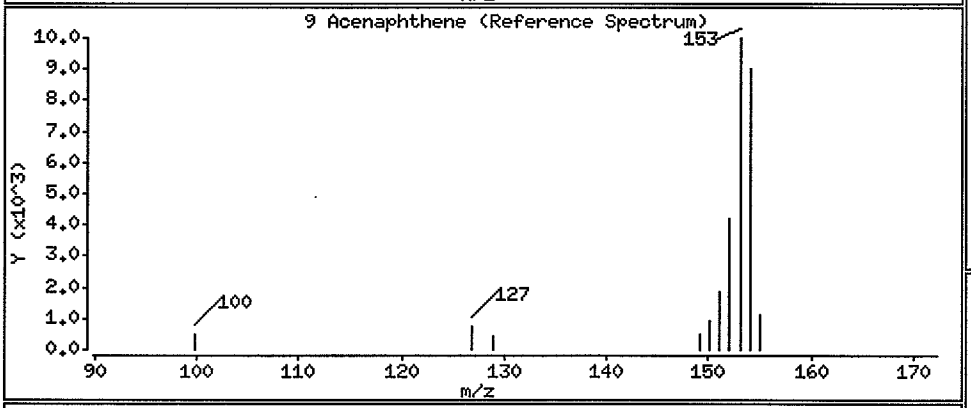
Column diameter: 0.25

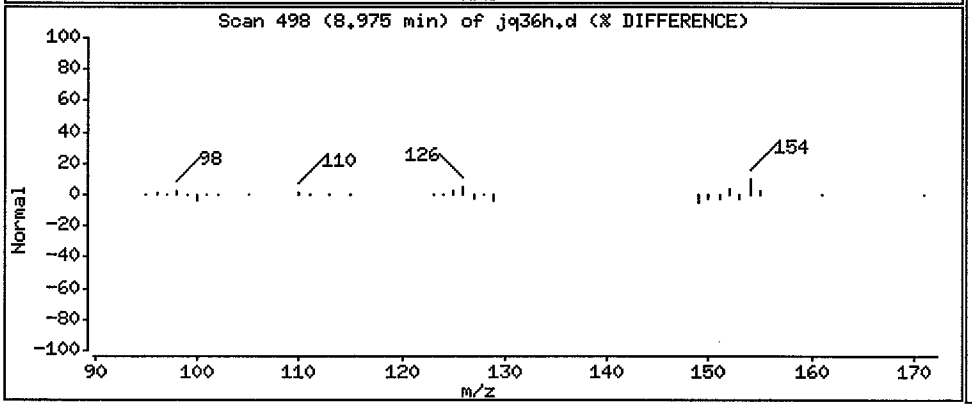
9 Acenaphthene

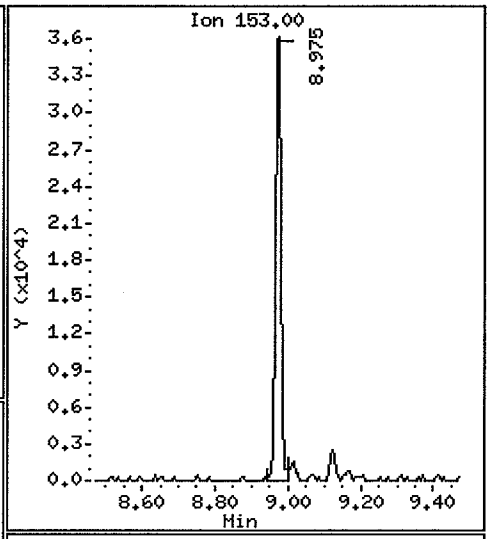
Concentration: 29.52 ug/kg

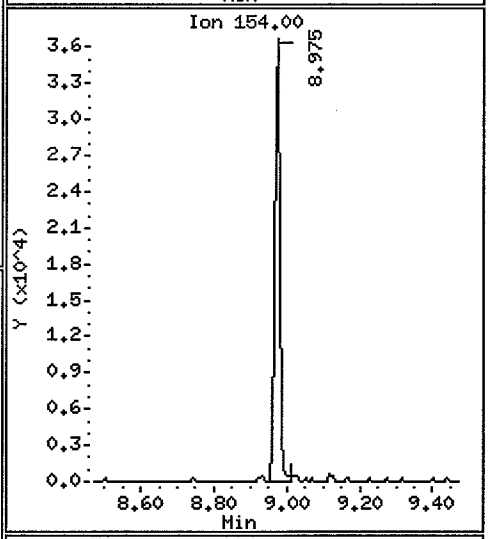


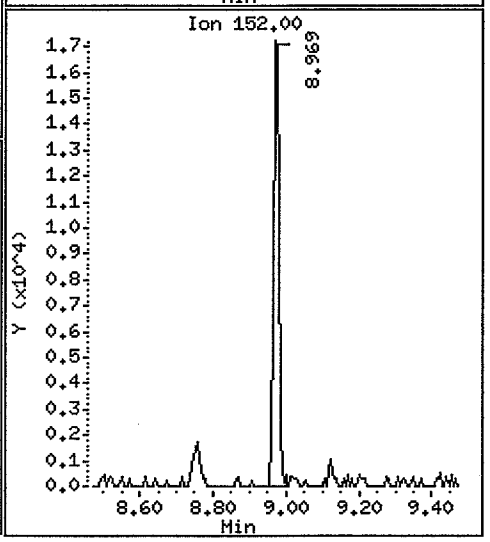












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

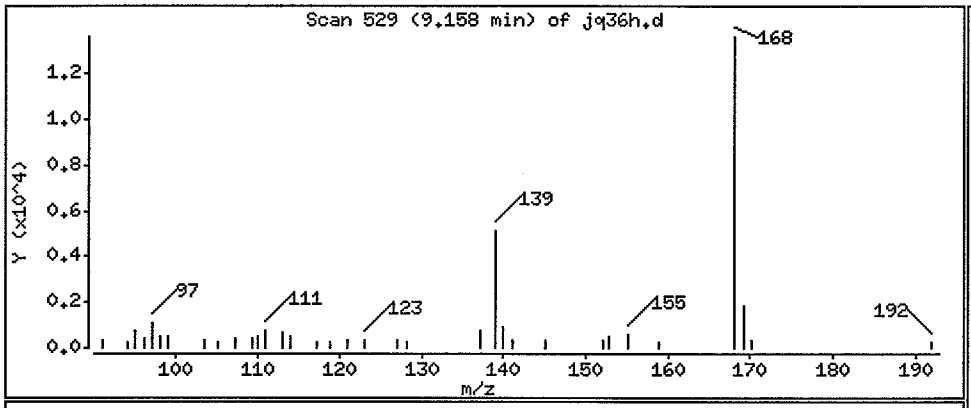
Operator: VTS

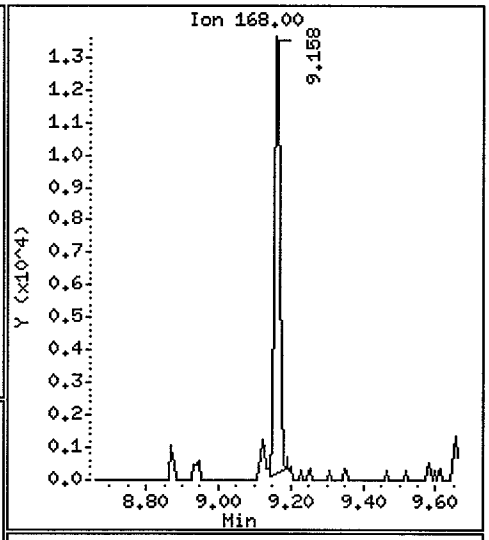
Column phase: ZB-5

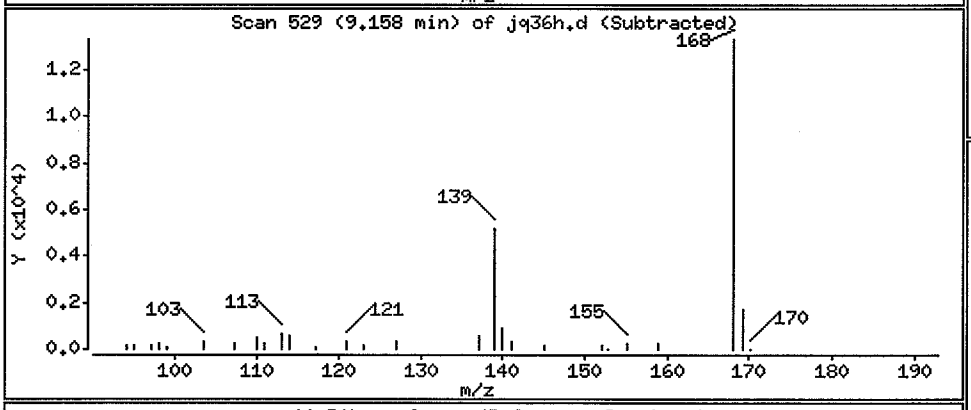
Column diameter: 0.25

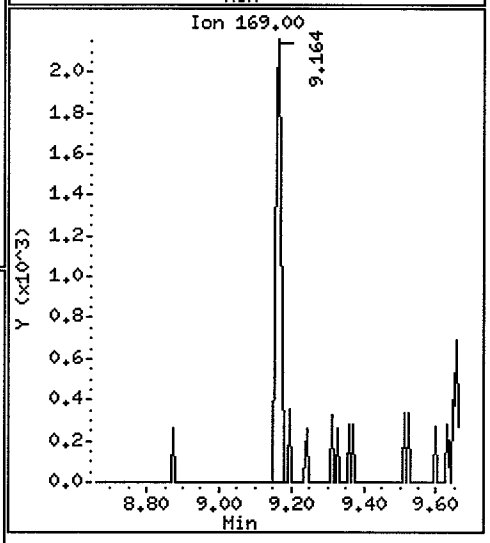
10 Dibenzofuran

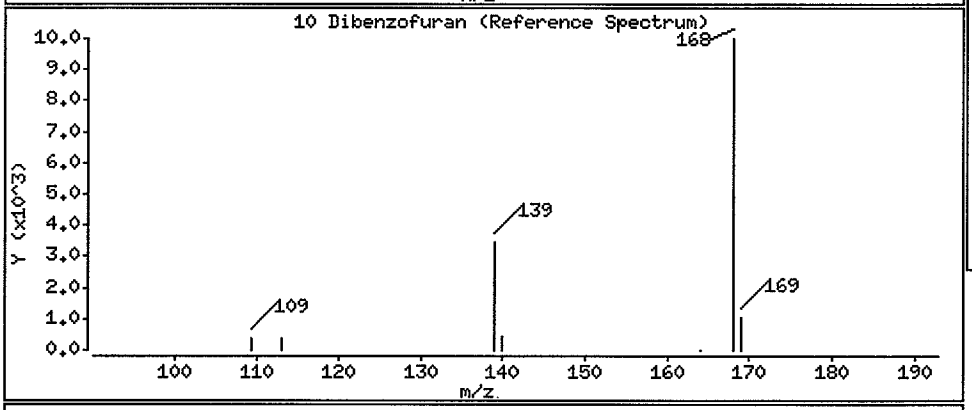
Concentration: 7.585 ug/kg

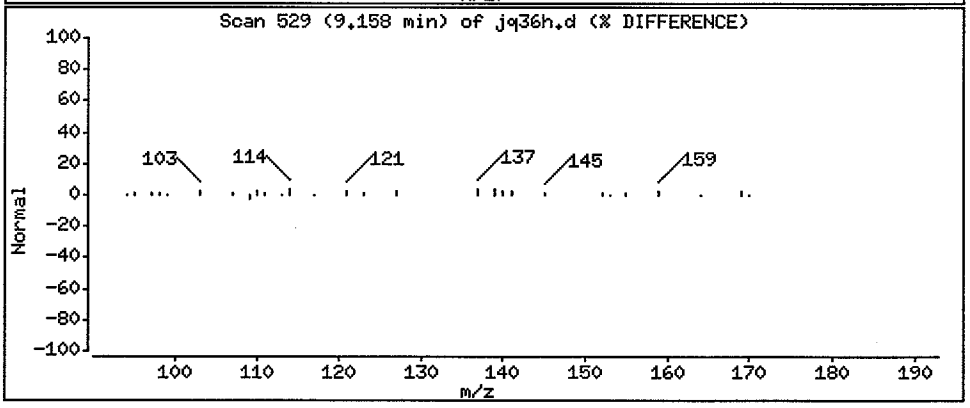












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

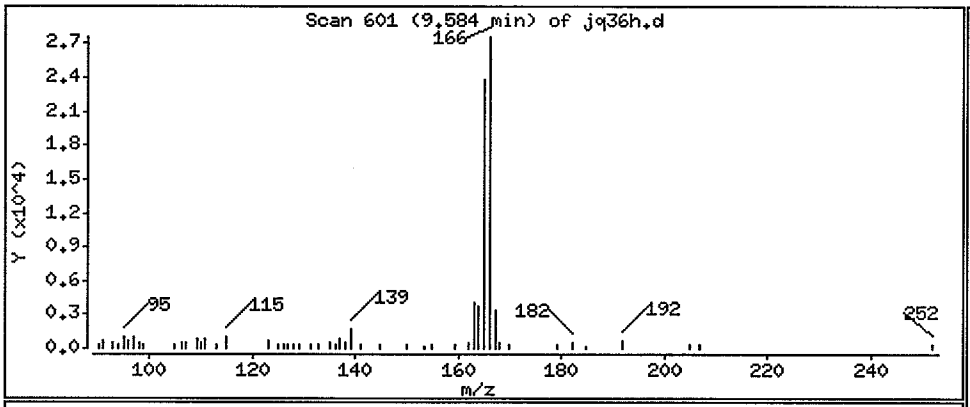
Operator: VTS

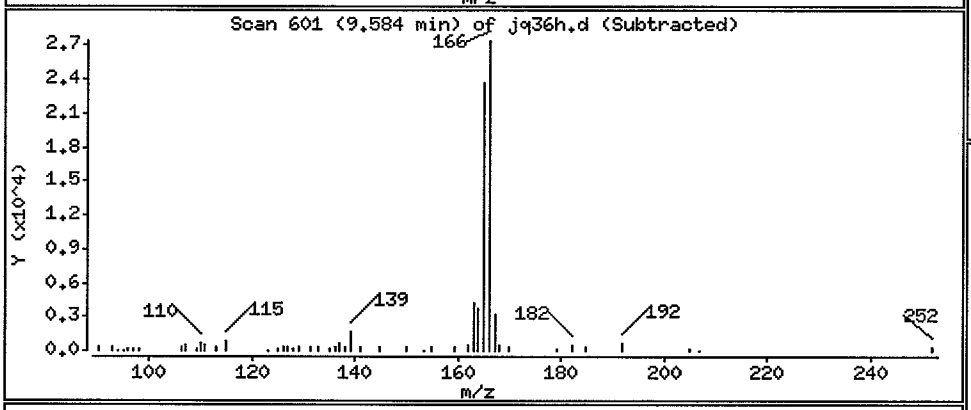
Column phase: ZB-5

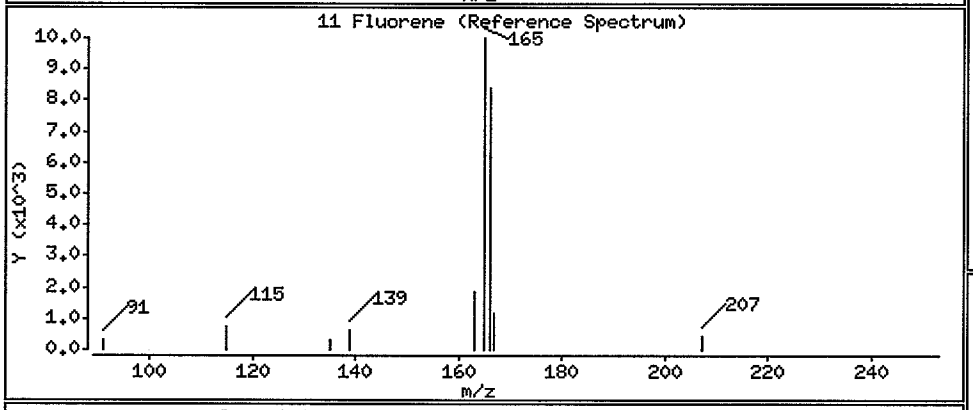
Column diameter: 0.25

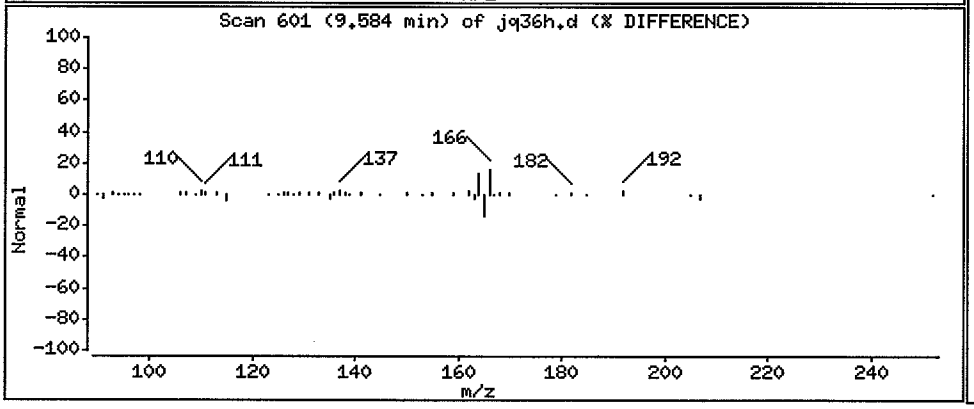
11 Fluorene

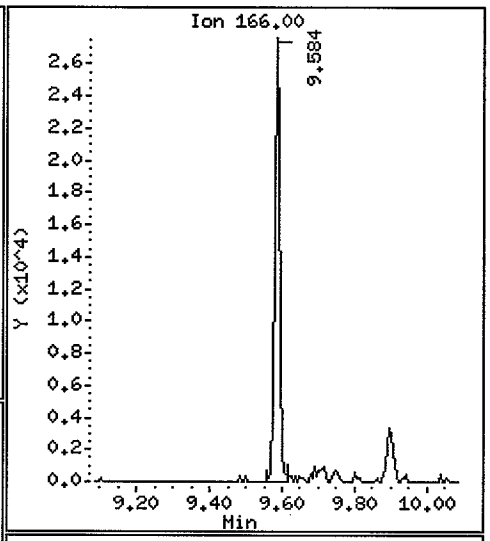
Concentration: 17.67 ug/kg

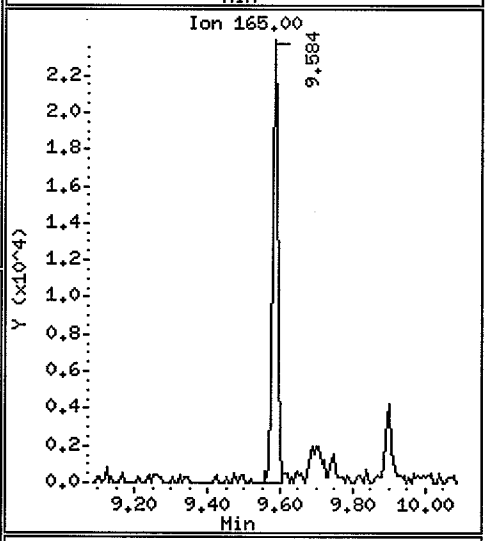


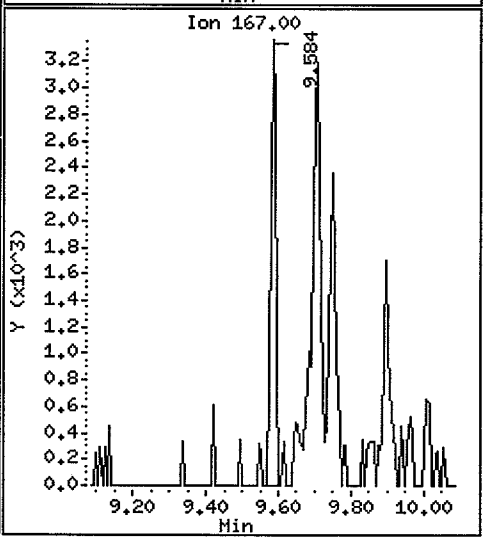












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

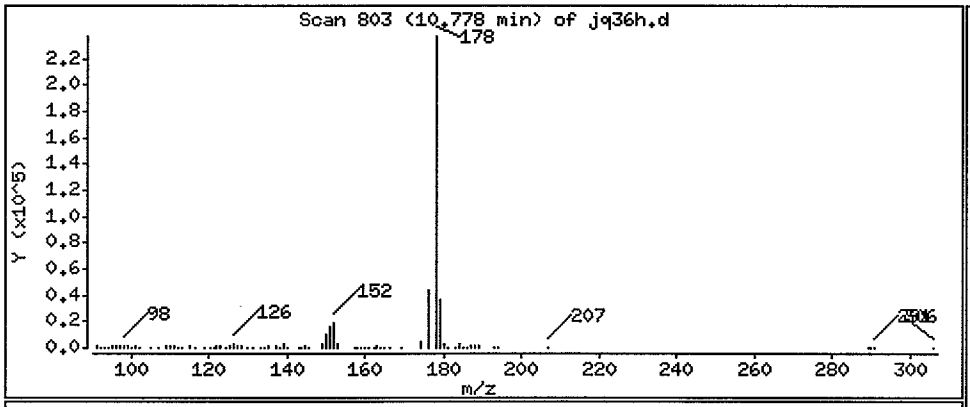
Operator: VTS

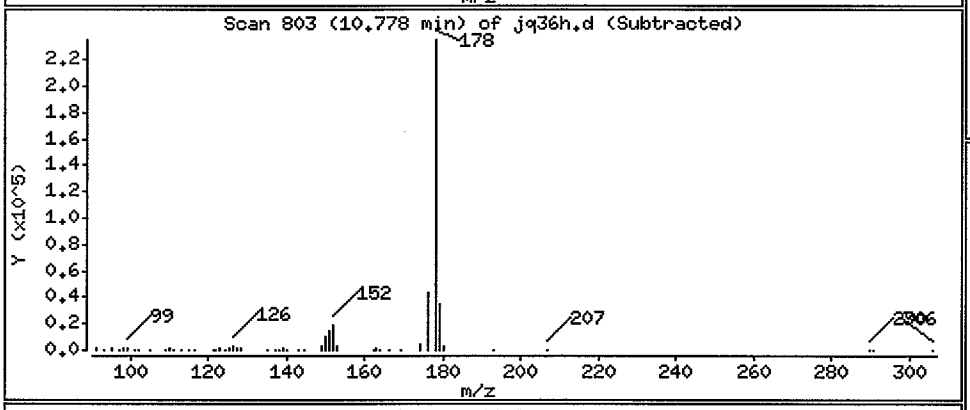
Column phase: ZB-5

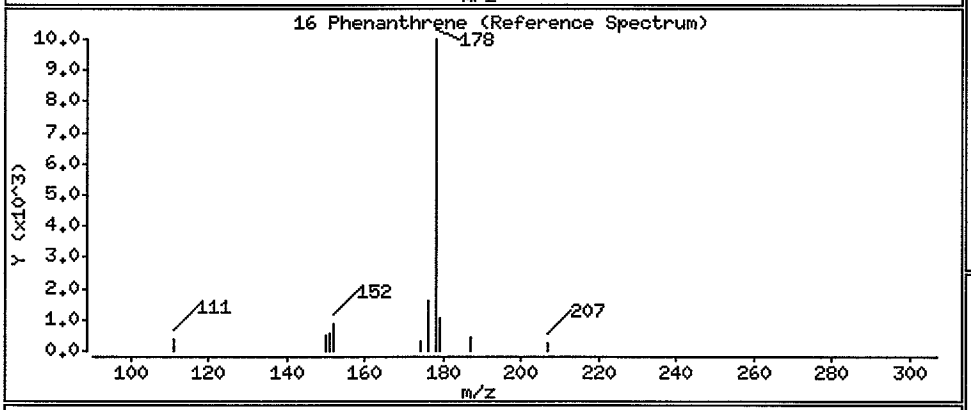
Column diameter: 0.25

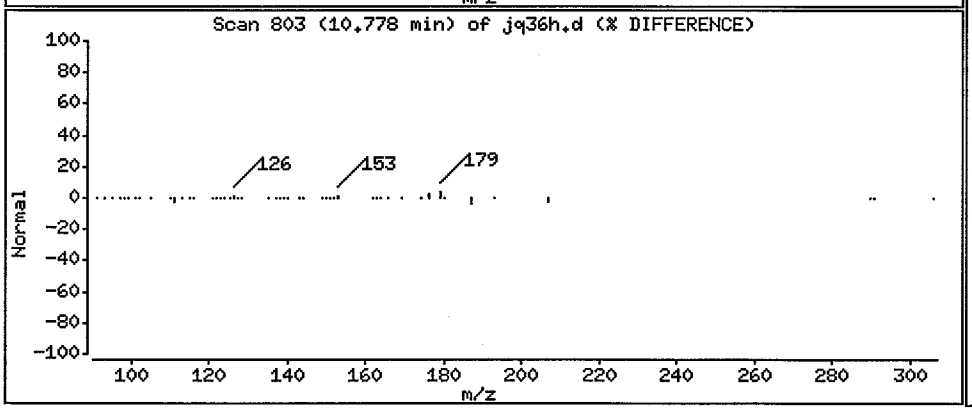
16 Phenanthrene

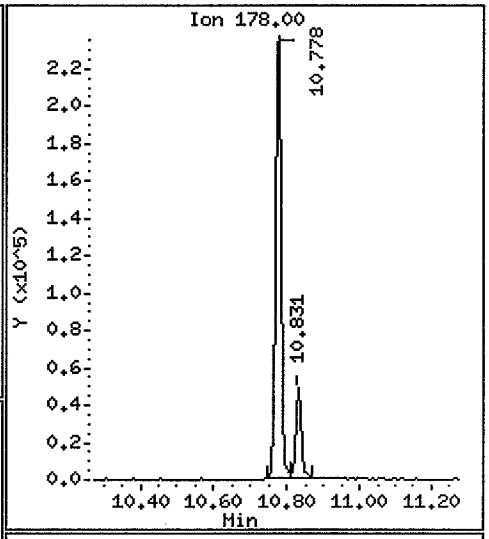
Concentration: 127.2 ug/kg

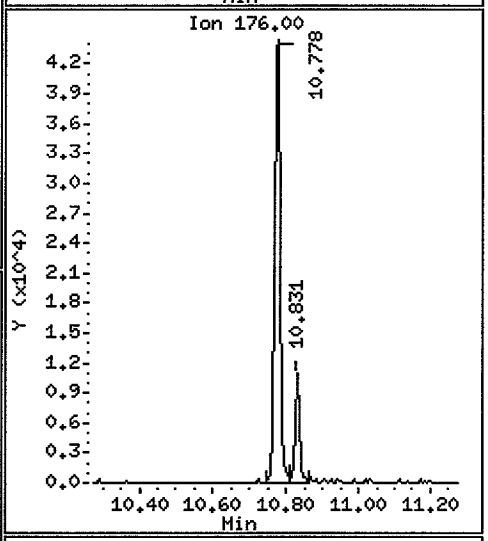


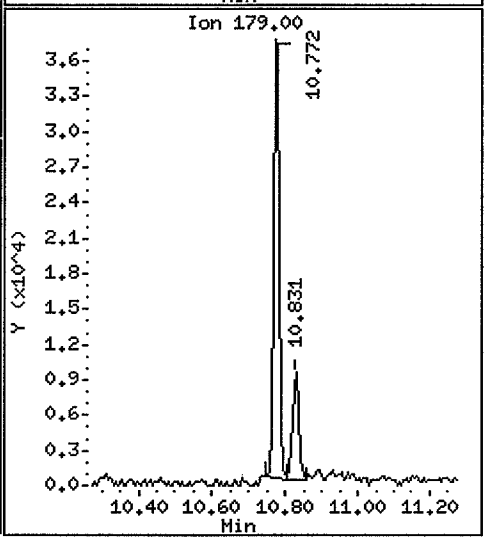












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

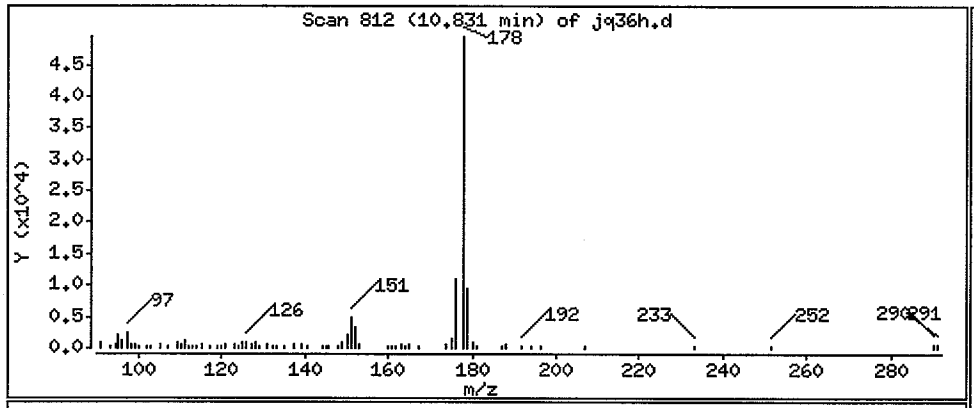
Operator: VTS

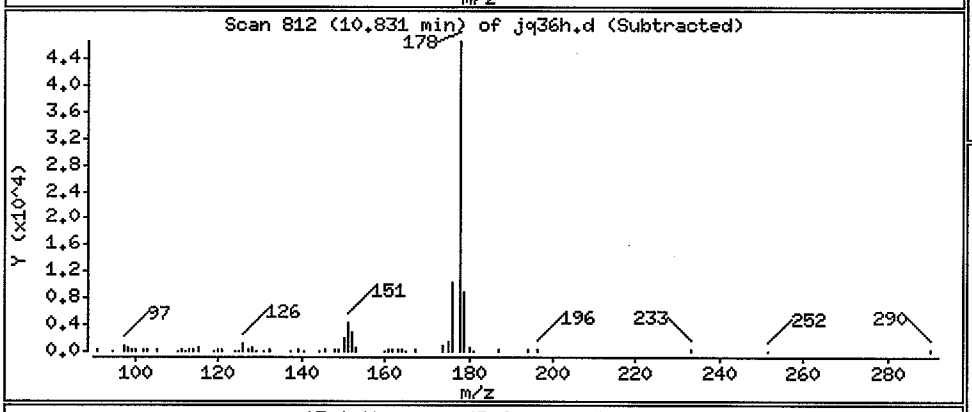
Column phase: ZB-5

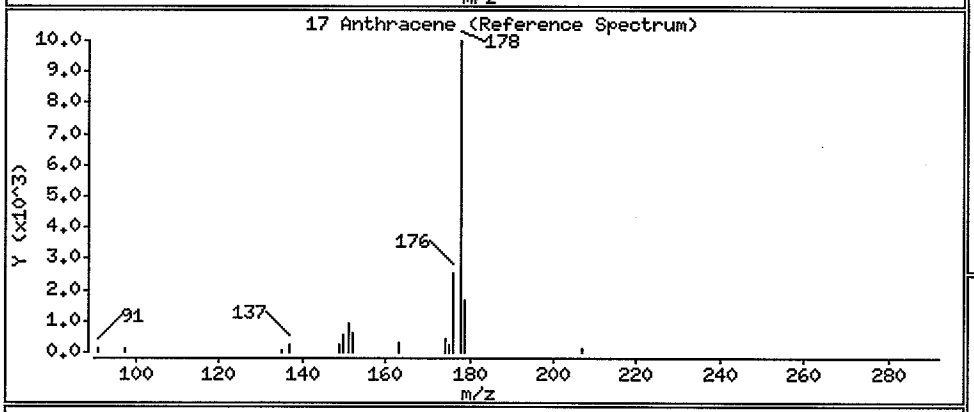
Column diameter: 0.25

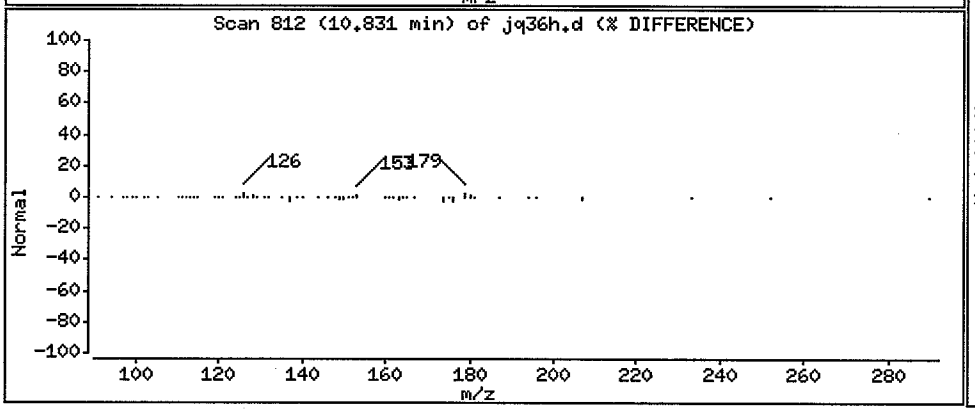
17 Anthracene

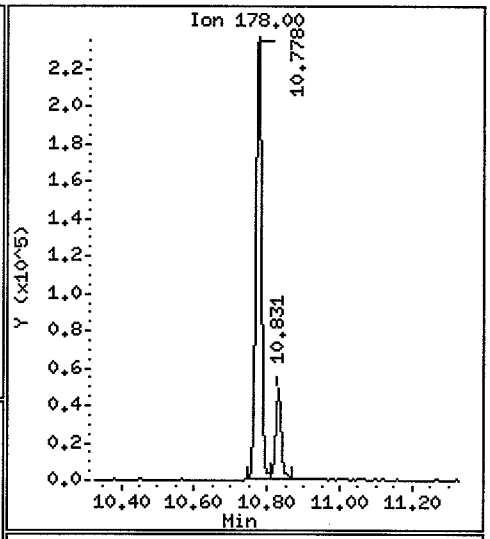
Concentration: 24.92 ug/kg

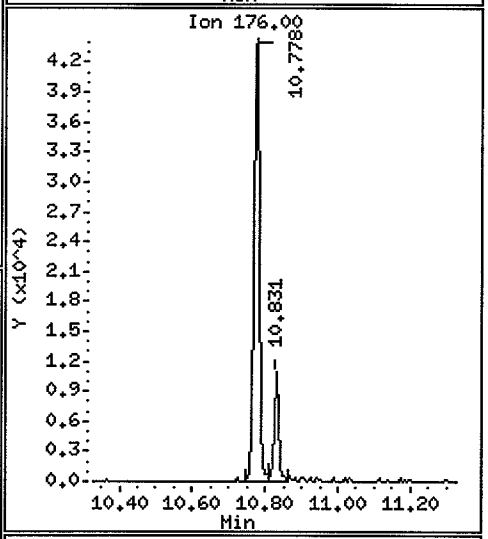


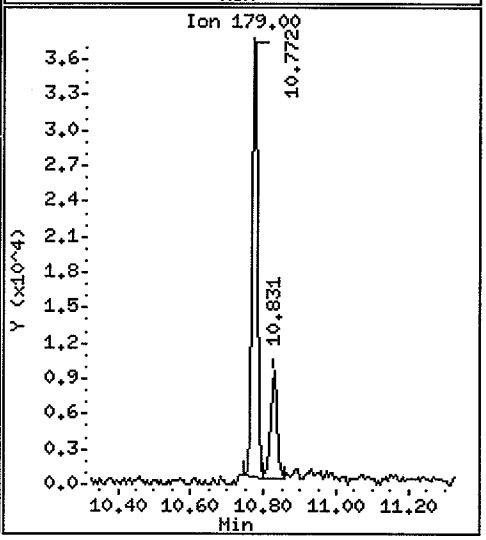












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

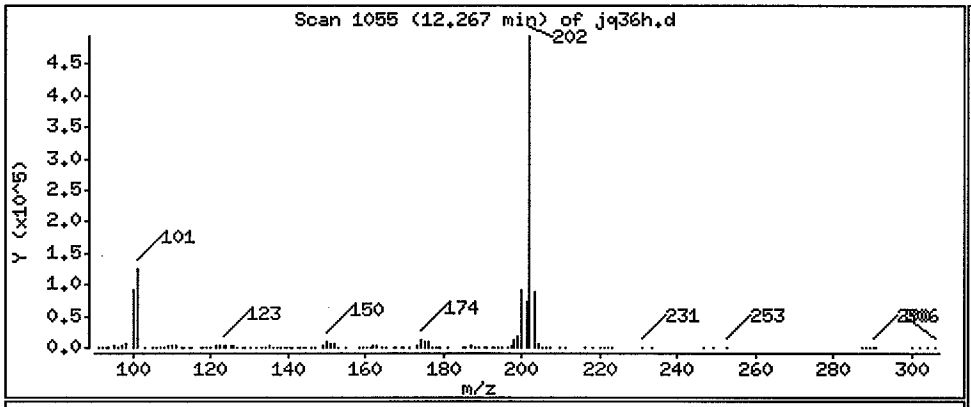
Operator: VTS

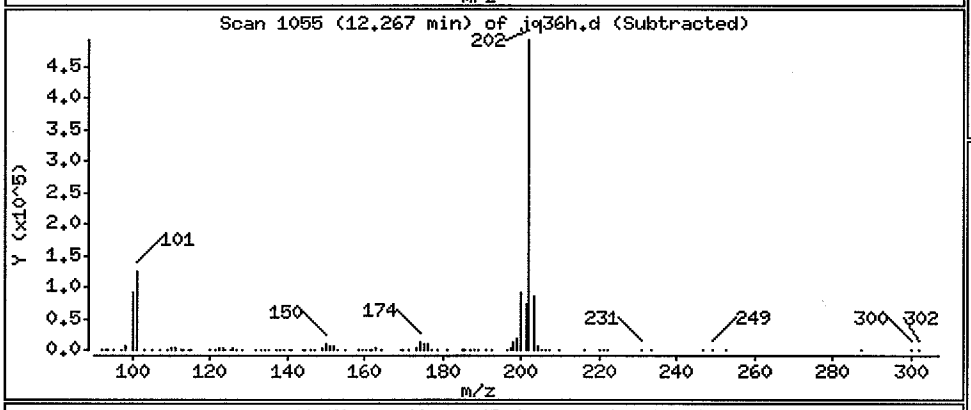
Column phase: ZB-5

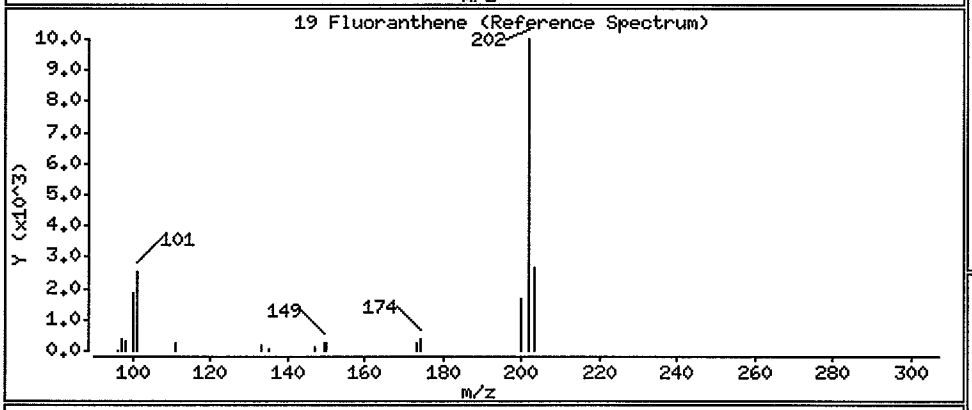
Column diameter: 0.25

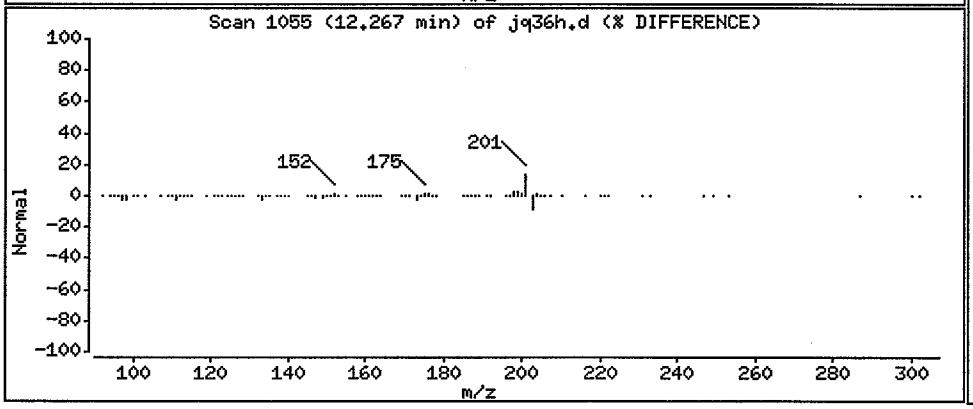
19 Fluoranthene

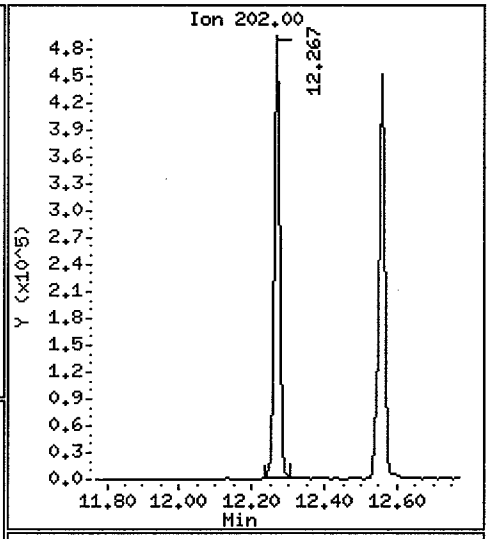
Concentration: 246.3 ug/kg

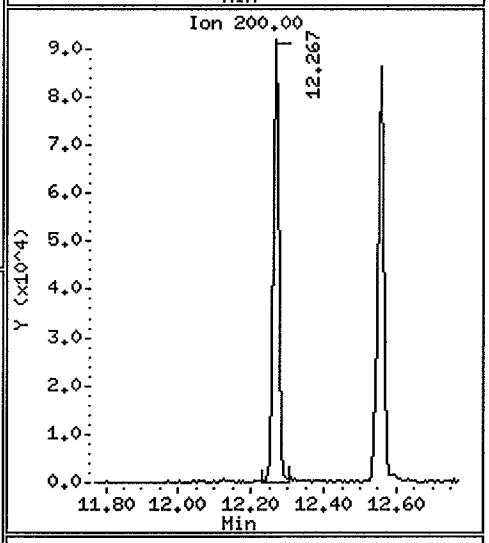


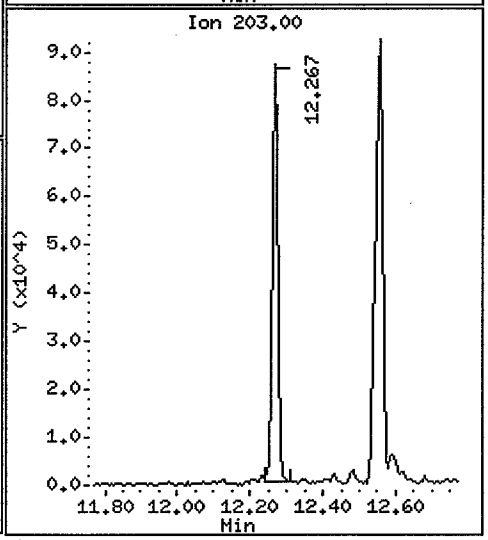












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

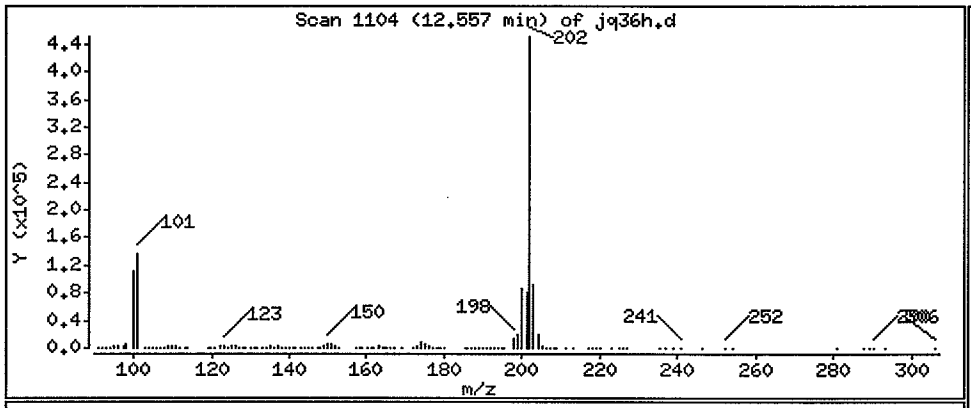
Operator: VTS

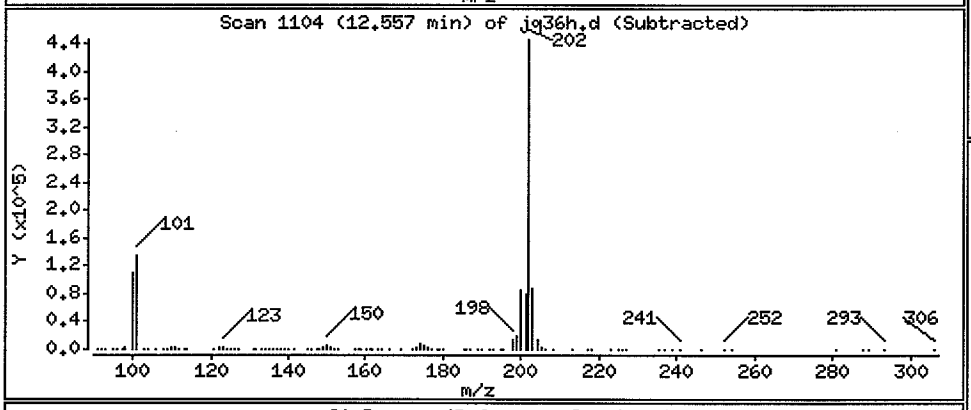
Column phase: ZB-5

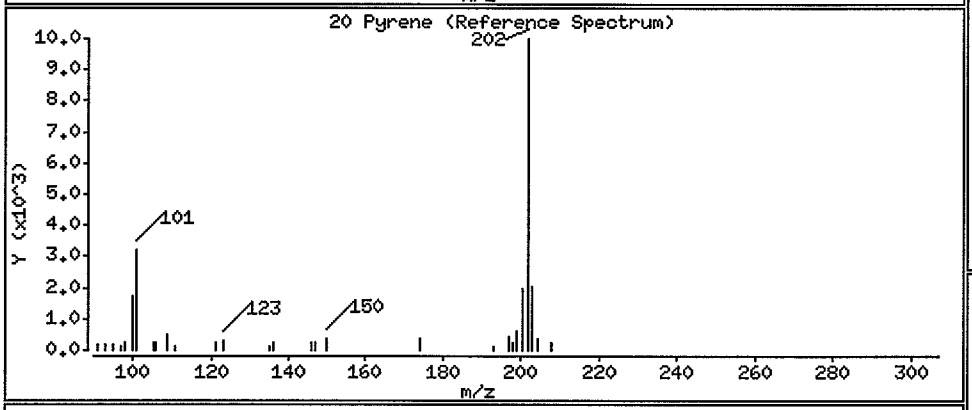
Column diameter: 0.25

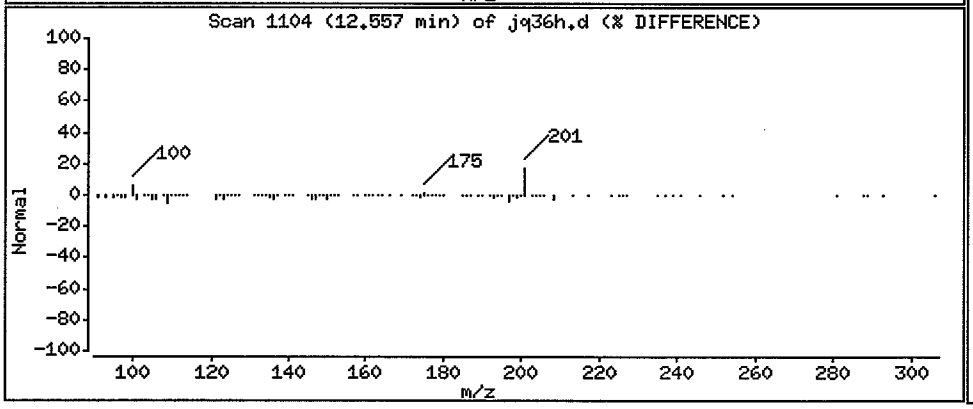
20 Pyrene

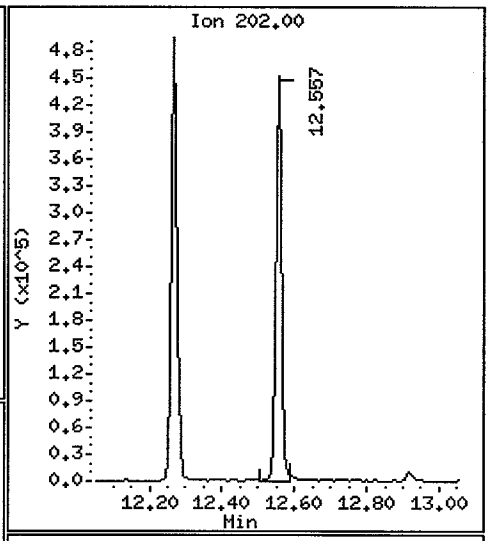
Concentration: 221.0 ug/kg

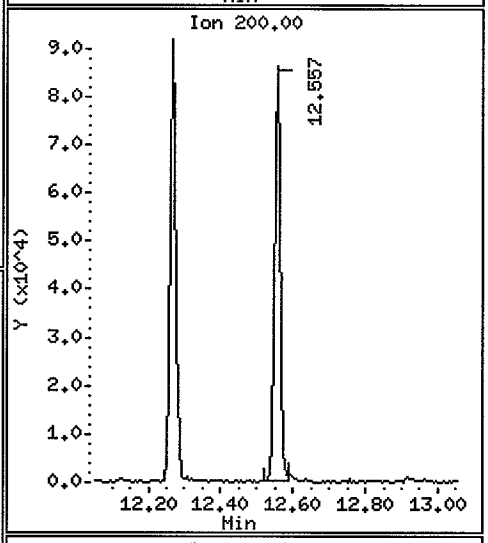


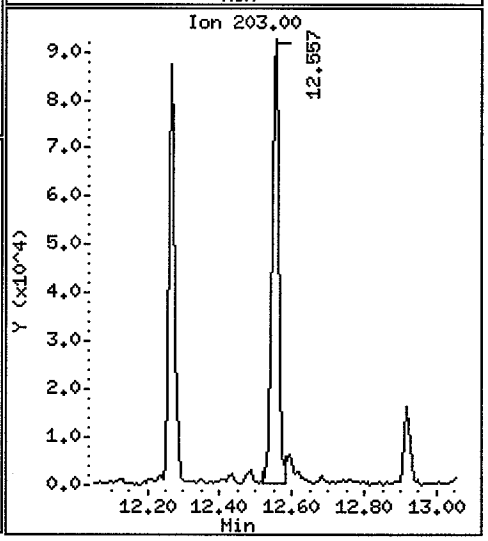












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

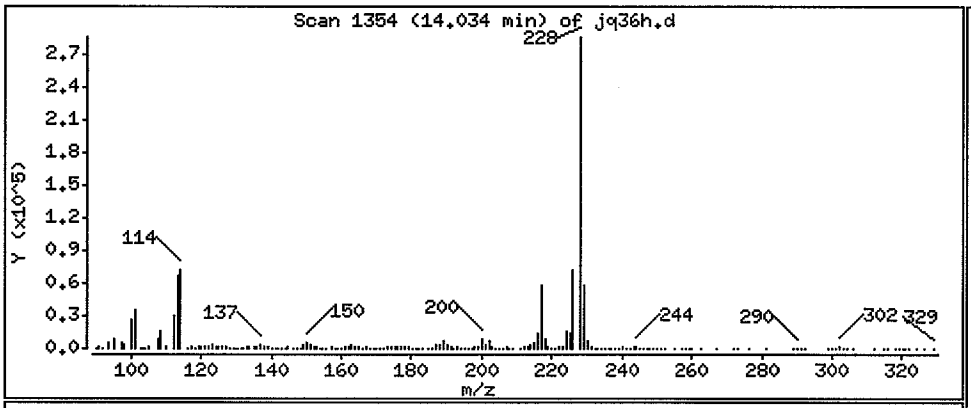
Operator: VTS

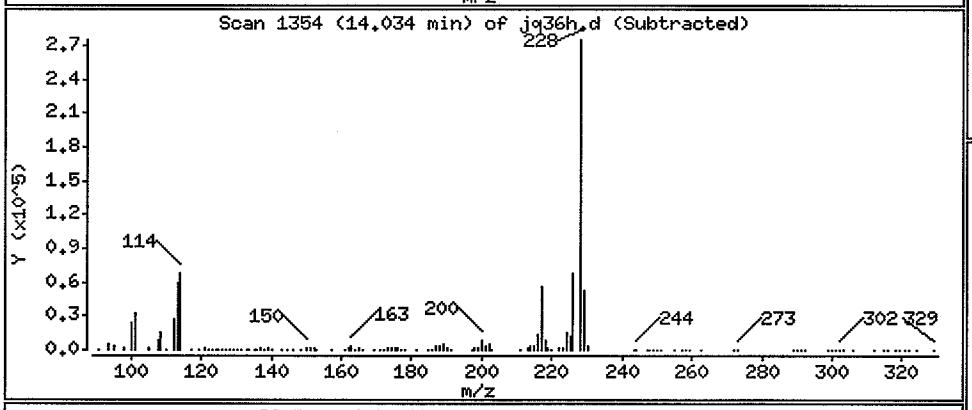
Column phase: ZB-5

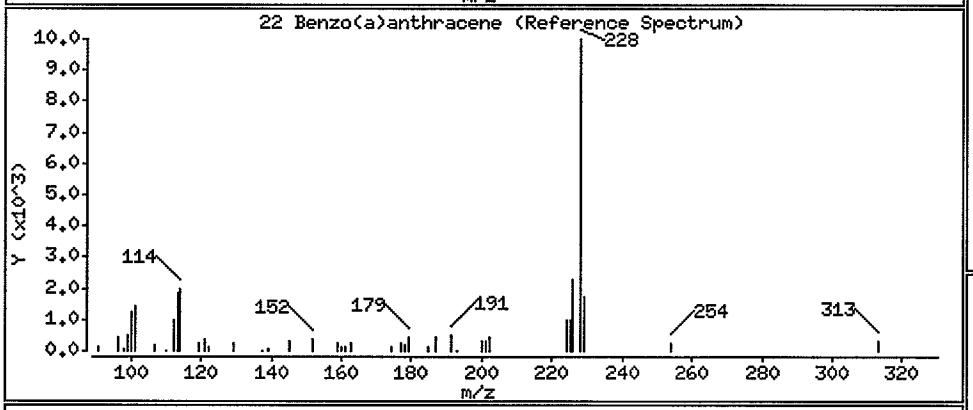
Column diameter: 0.25

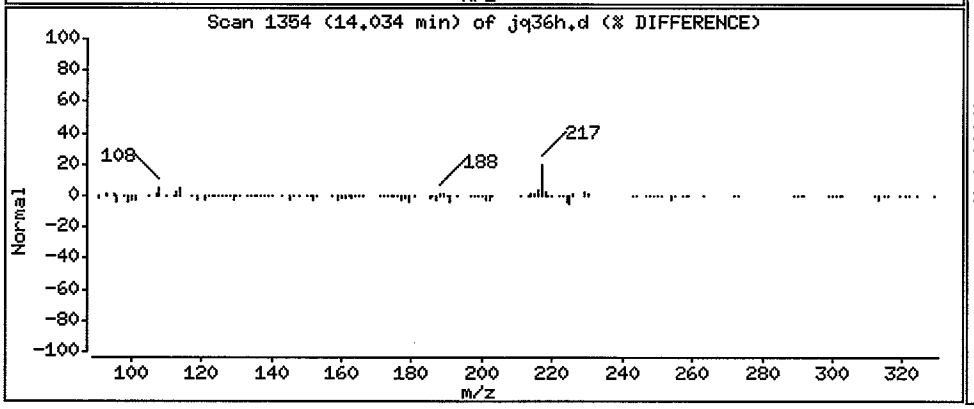
22 Benzo(a)anthracene

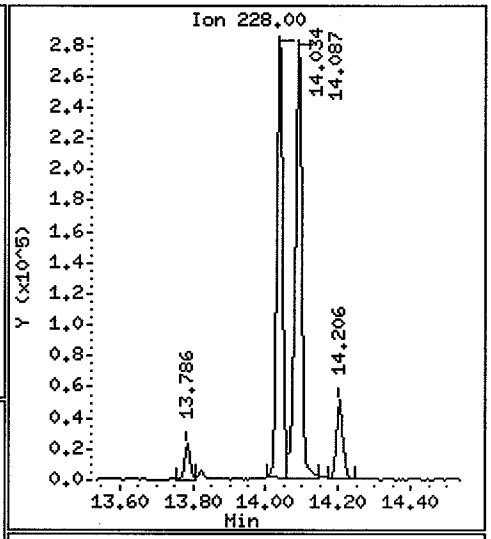
Concentration: 155.2 ug/kg

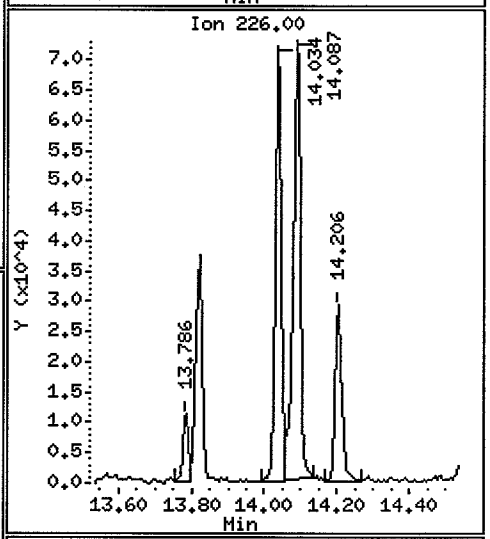


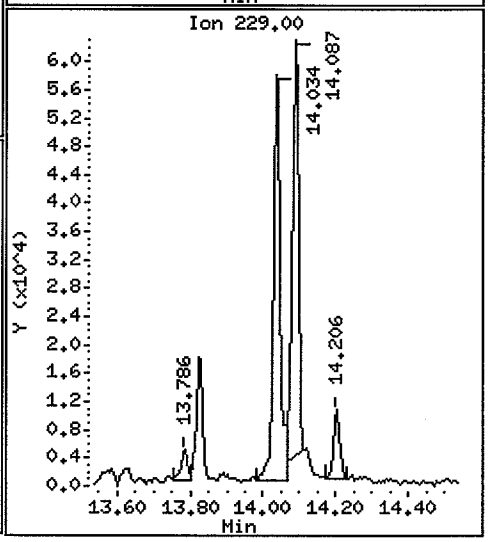












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

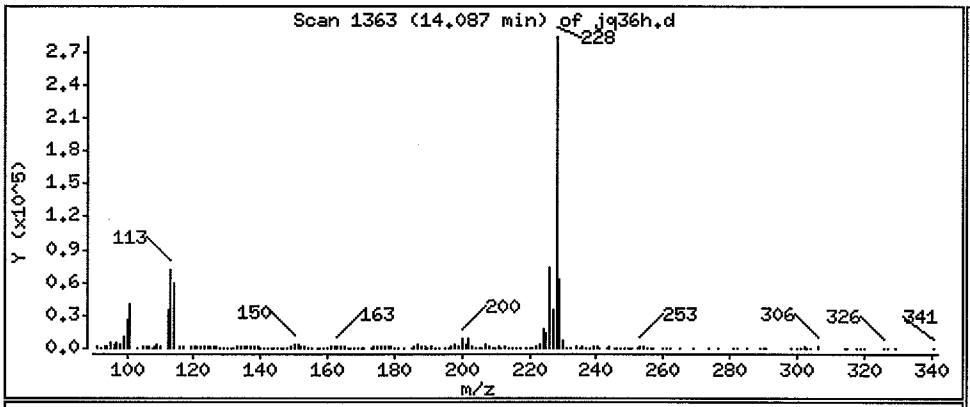
Operator: VTS

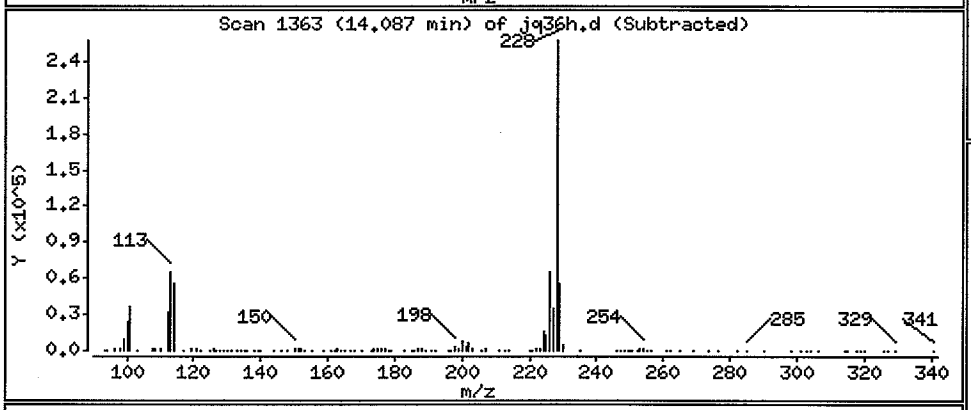
Column phase: ZB-5

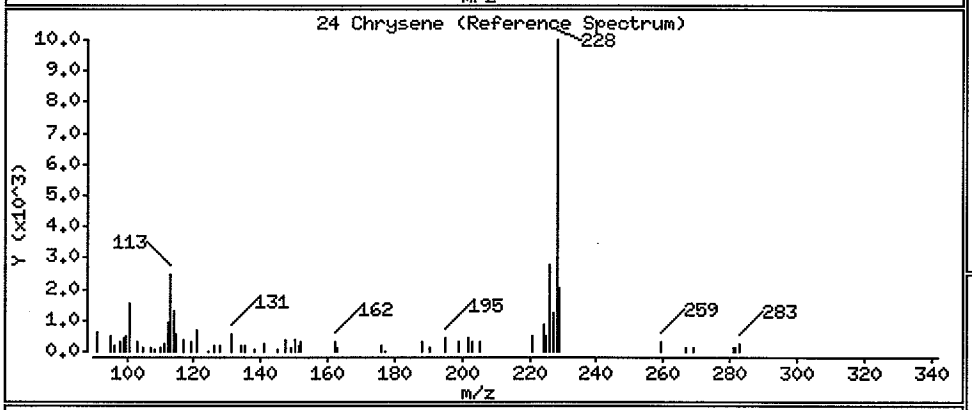
Column diameter: 0.25

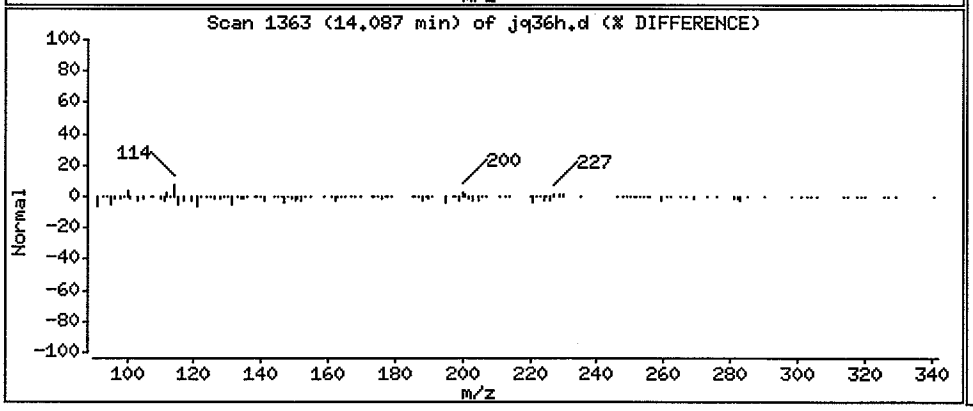
24 Chrysene

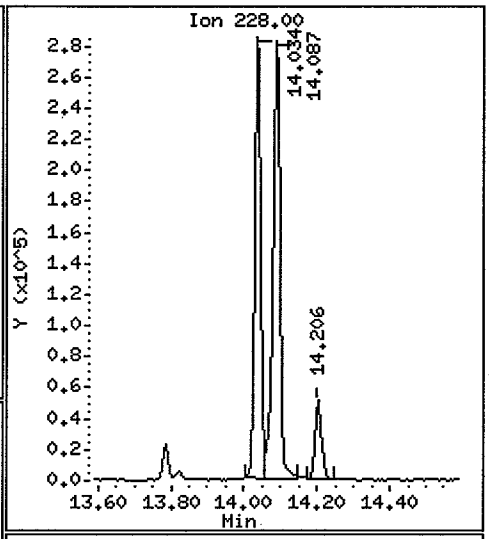
Concentration: 194.5 ug/kg

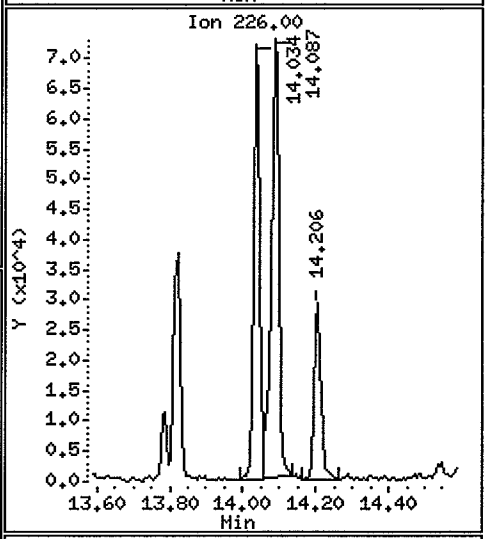


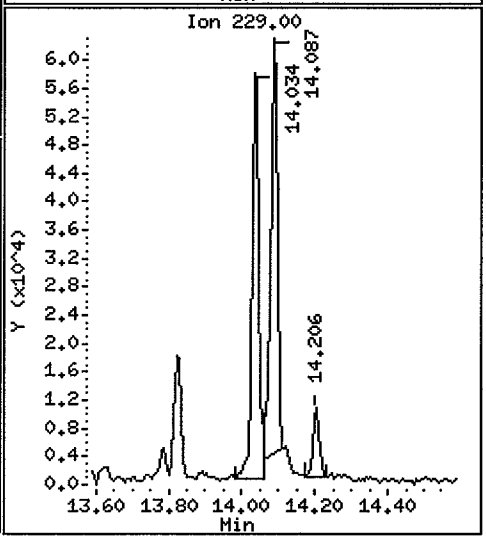












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

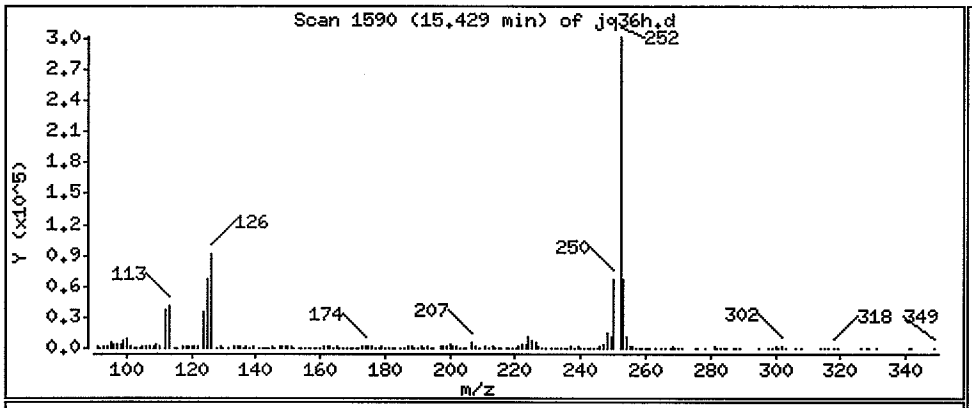
Operator: VTS

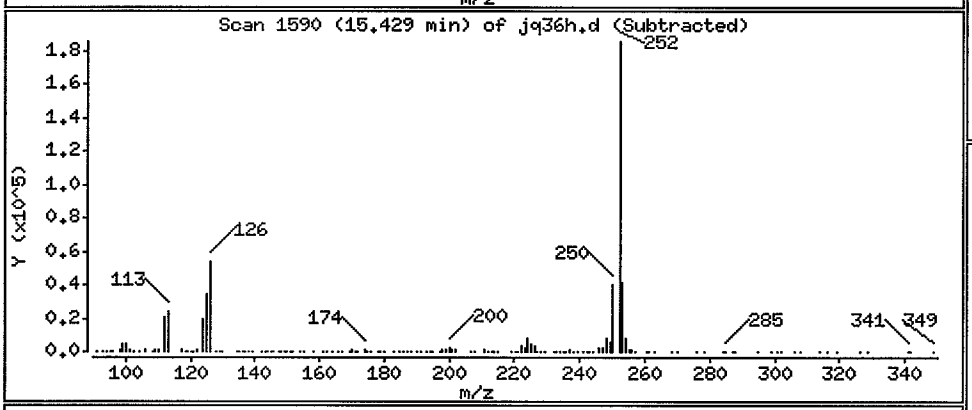
Column phase: ZB-5

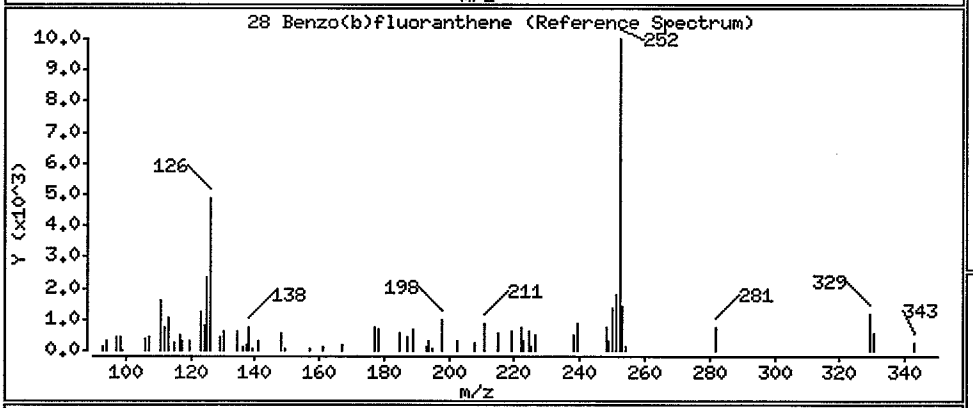
Column diameter: 0.25

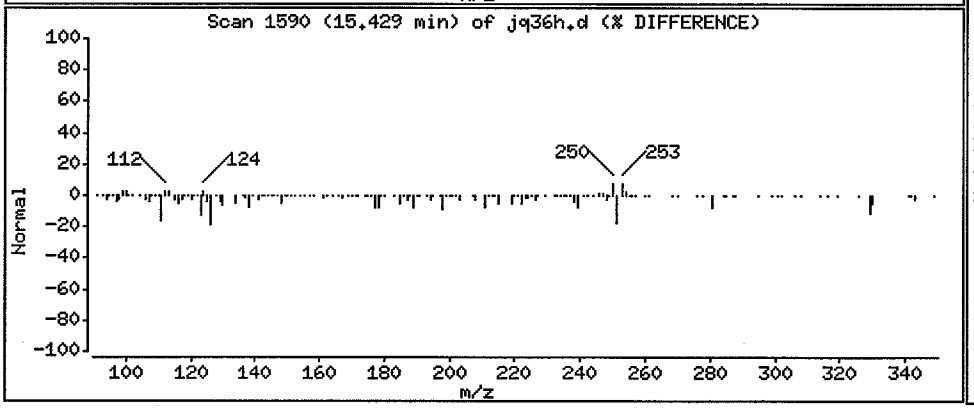
28 Benzo(b)fluoranthene

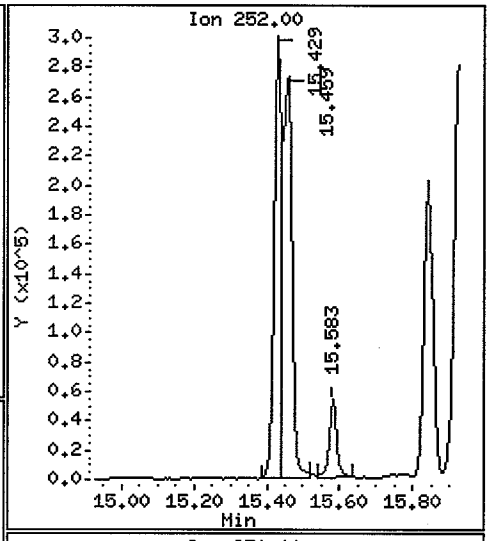
Concentration: 182.2 ug/kg

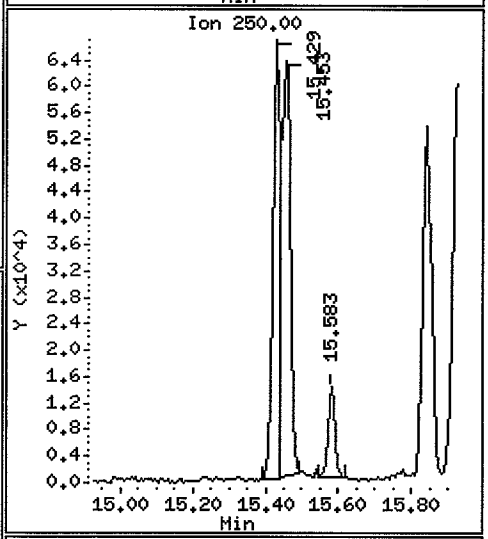


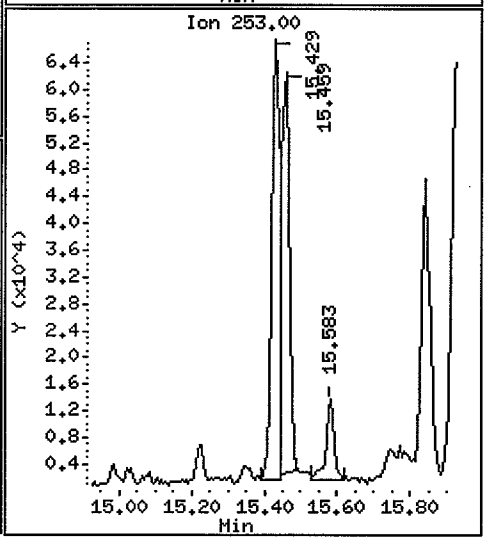












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

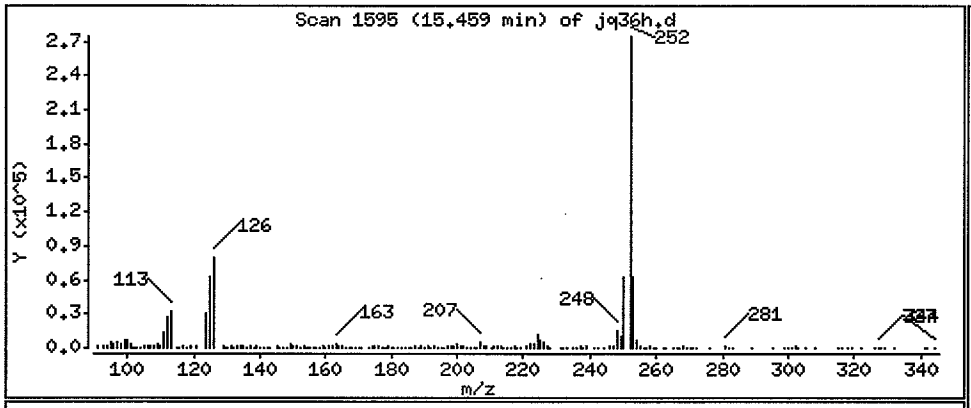
Operator: VTS

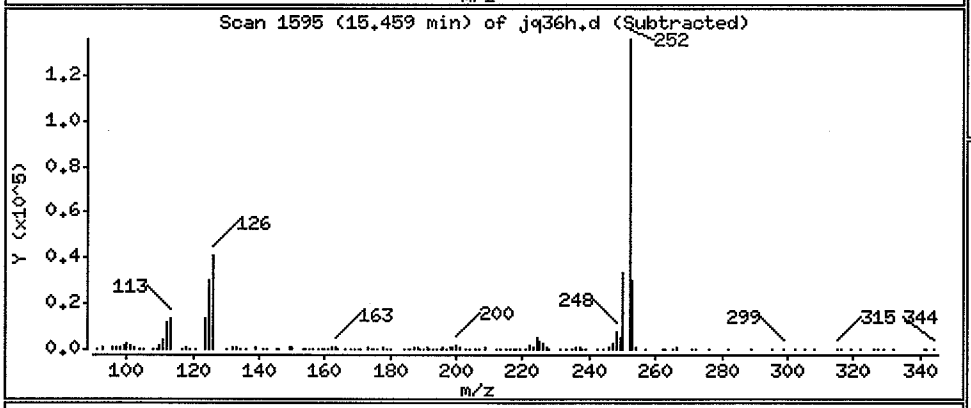
Column phase: ZB-5

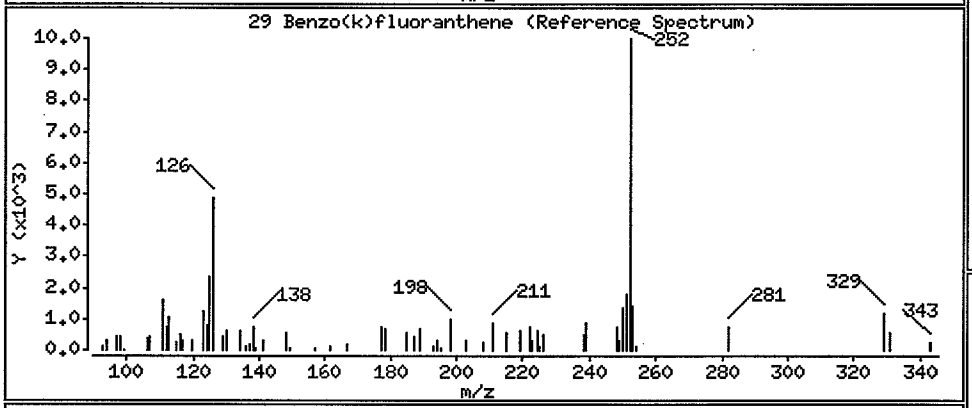
Column diameter: 0.25

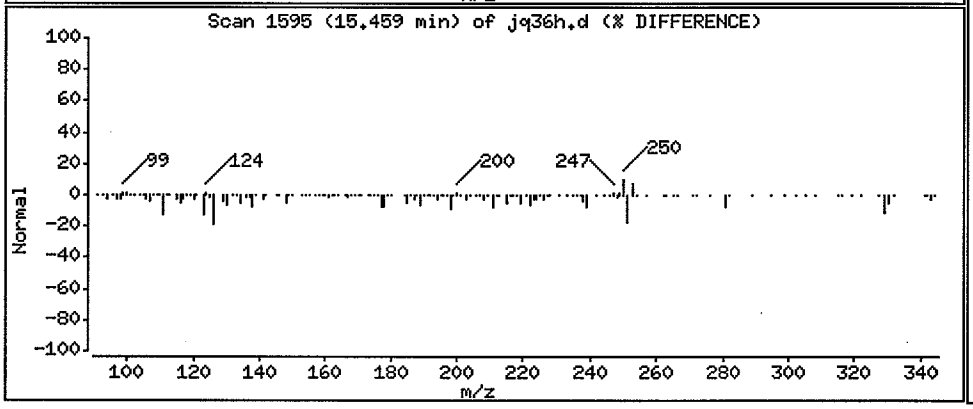
29 Benzo(k)fluoranthene

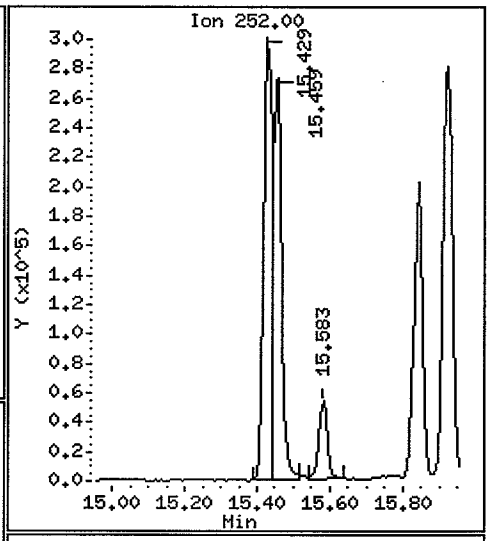
Concentration: 193.4 ug/kg

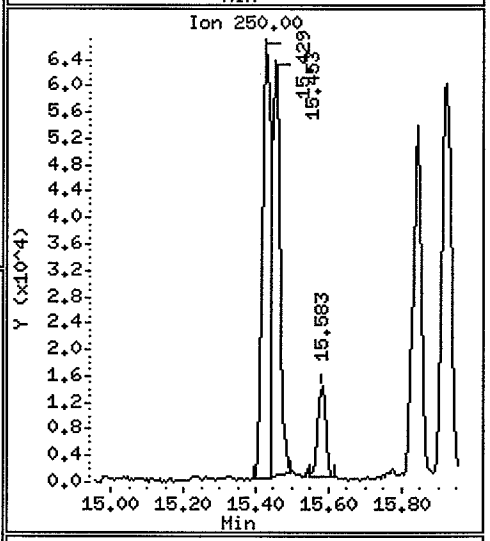


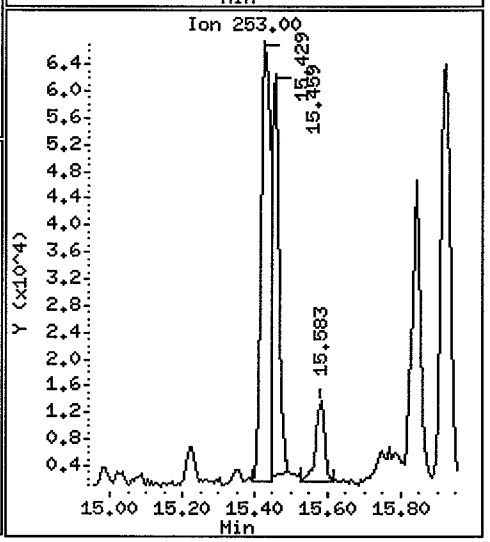












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

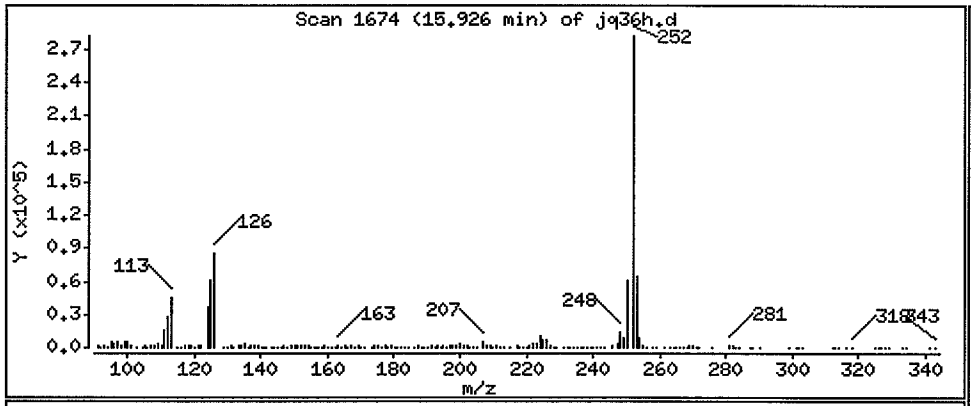
Operator: VTS

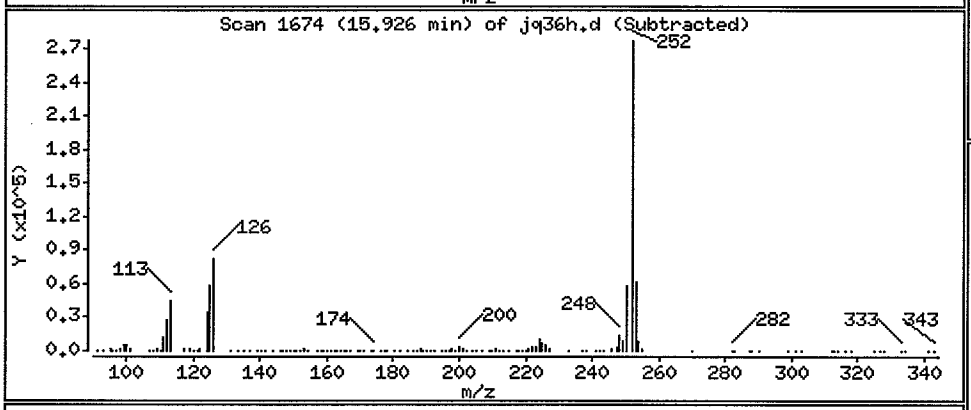
Column phase: ZB-5

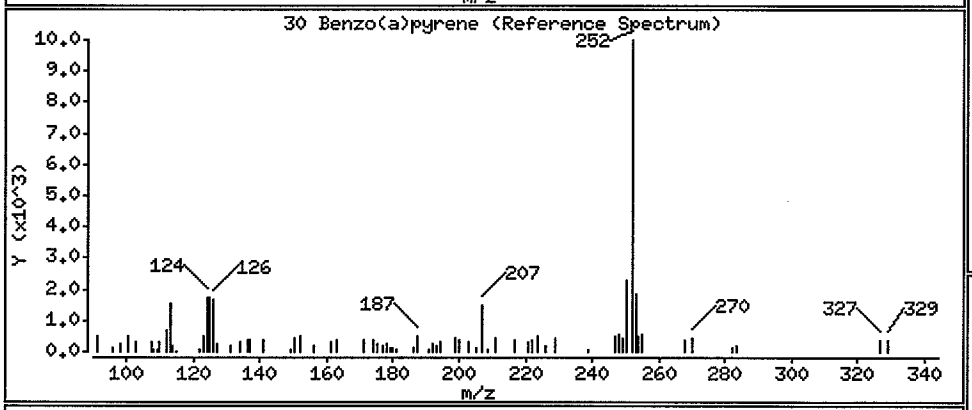
Column diameter: 0.25

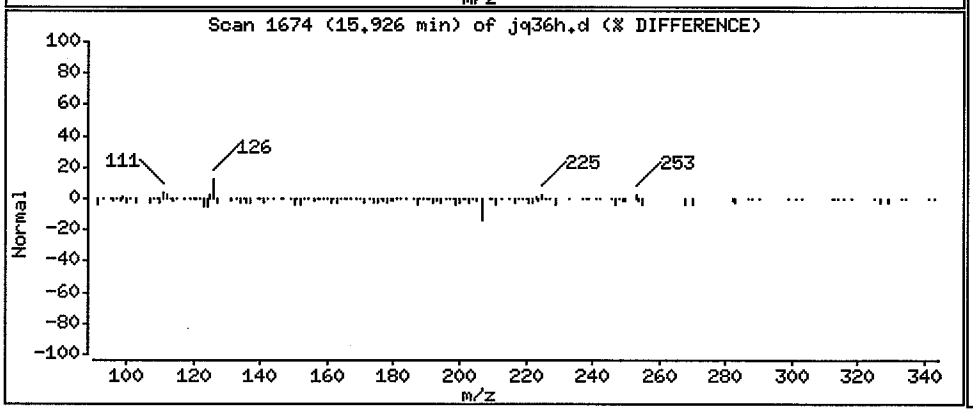
30 Benzo(a)pyrene

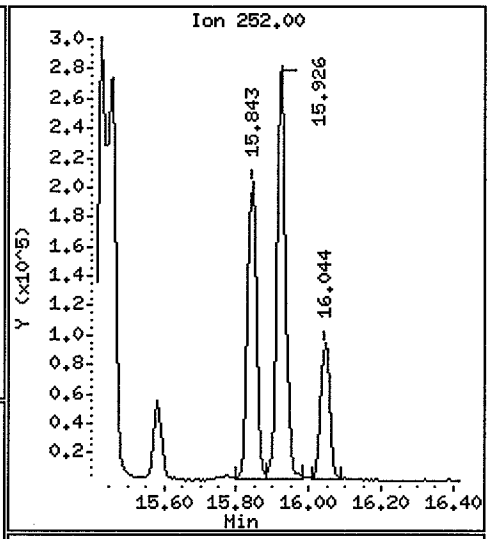
Concentration: 202.7 ug/kg

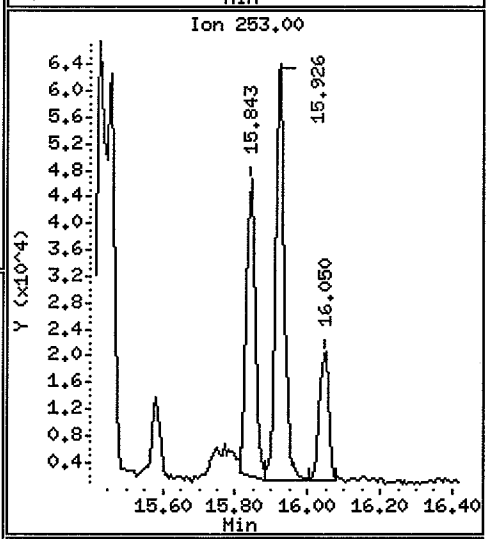


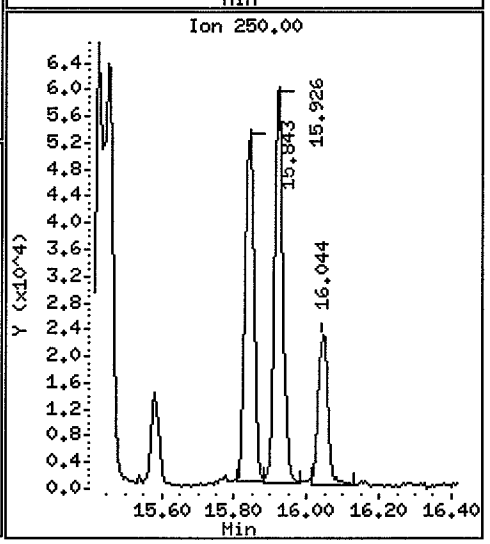












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

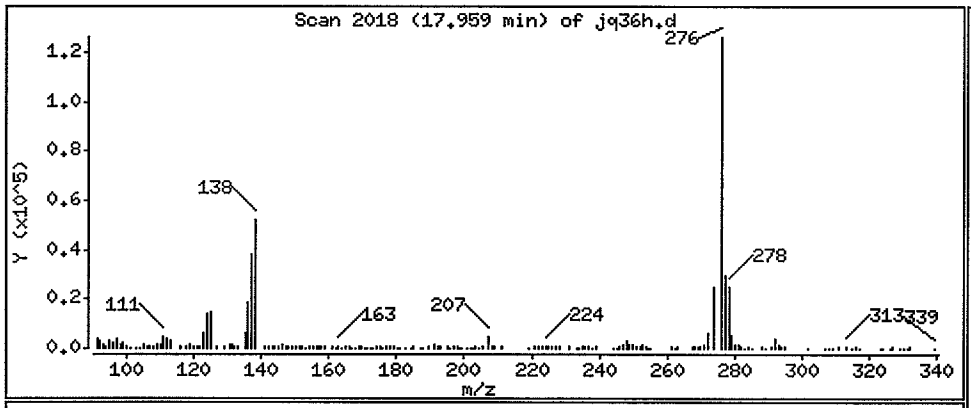
Operator: VTS

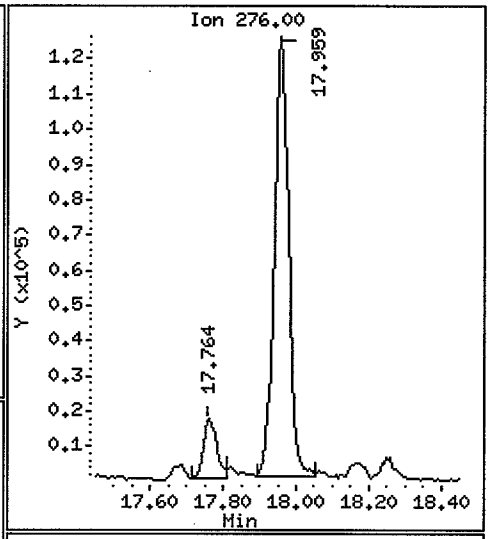
Column phase: ZB-5

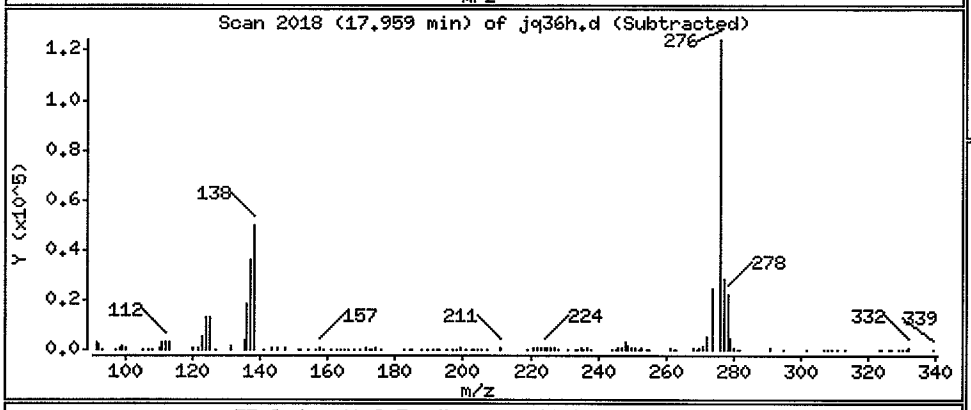
Column diameter: 0.25

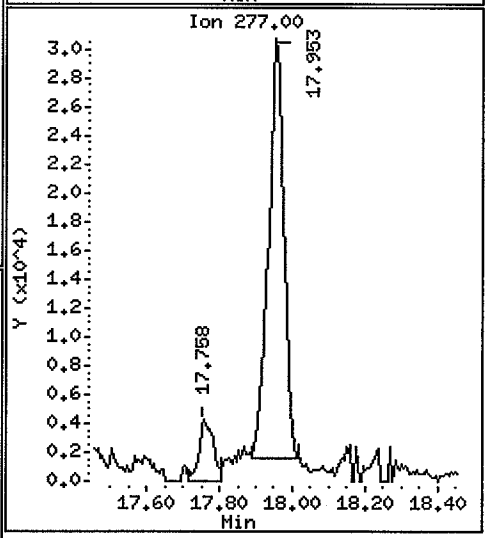
33 Indeno(1,2,3-cd)pyrene

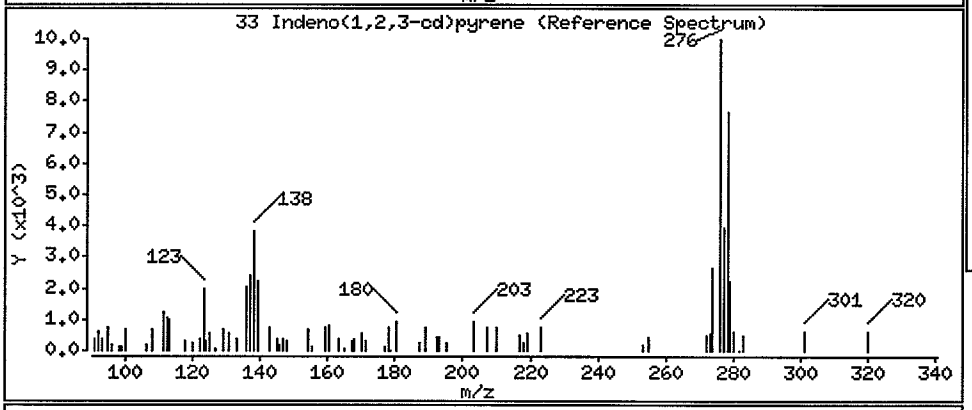
Concentration: 122.7 ug/kg

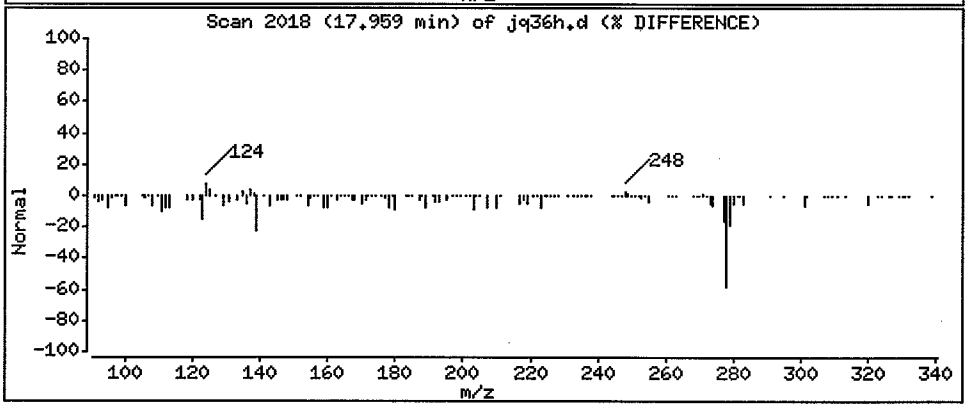












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

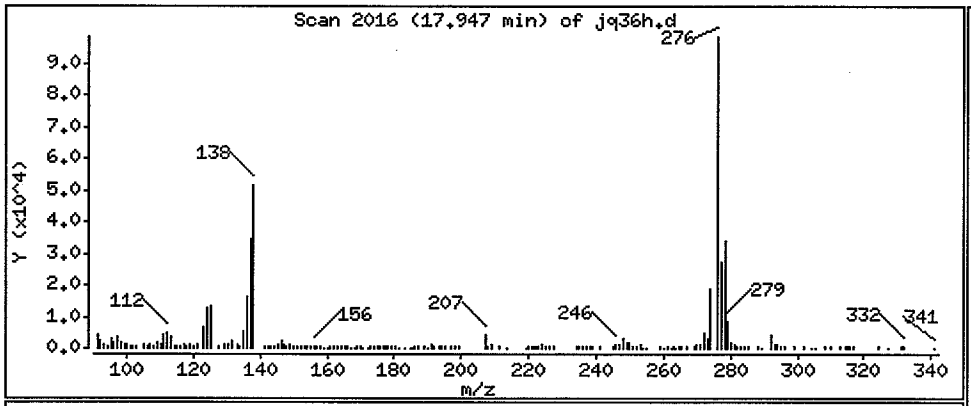
Operator: VTS

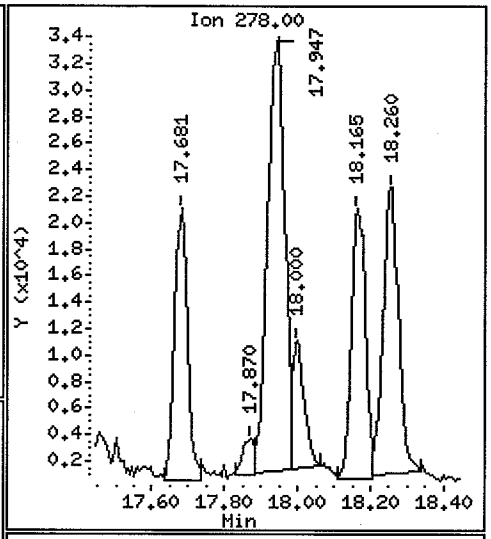
Column phase: ZB-5

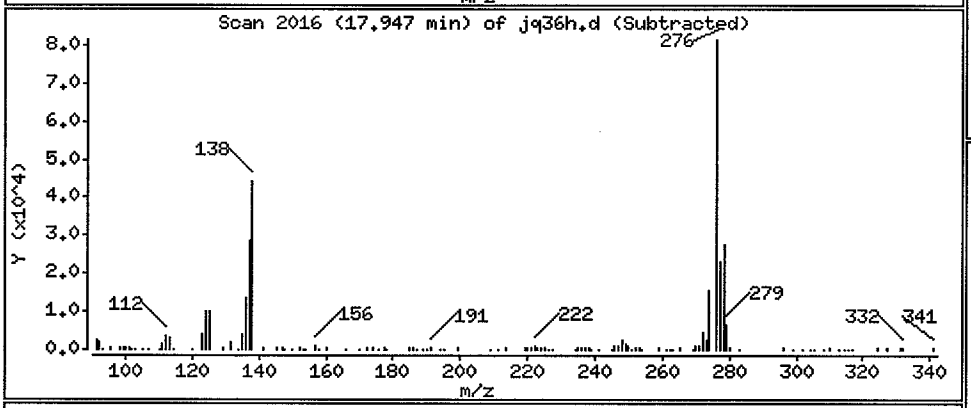
Column diameter: 0.25

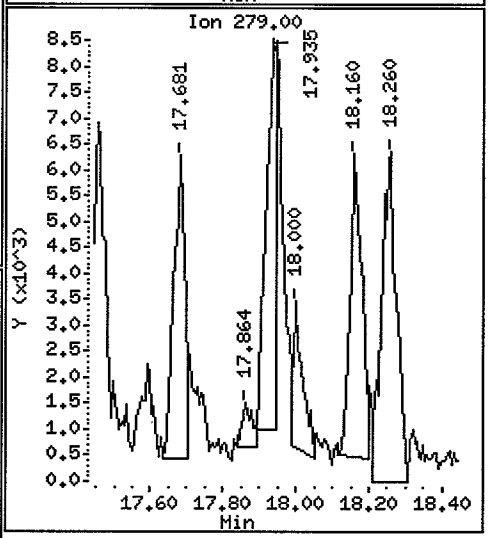
34 Dibenz(a,h)anthracene

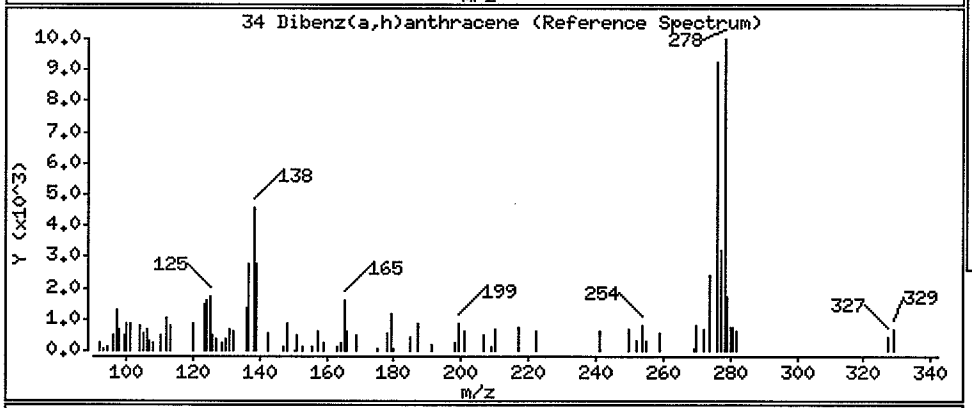
Concentration: 47.92 ug/kg

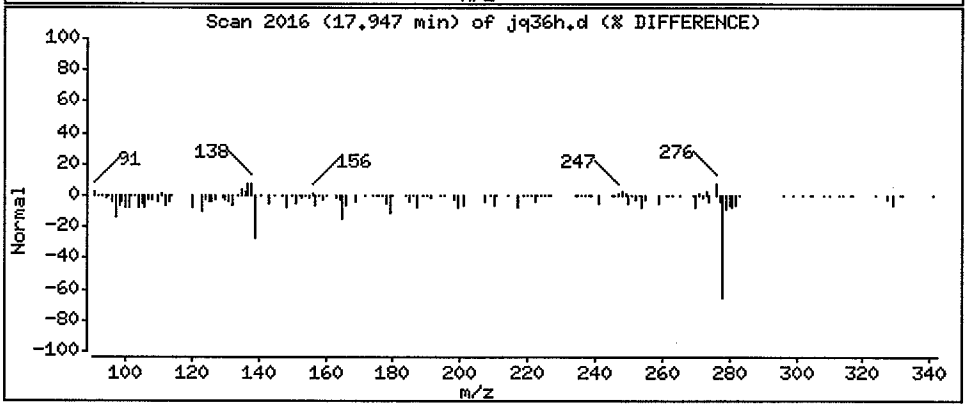












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

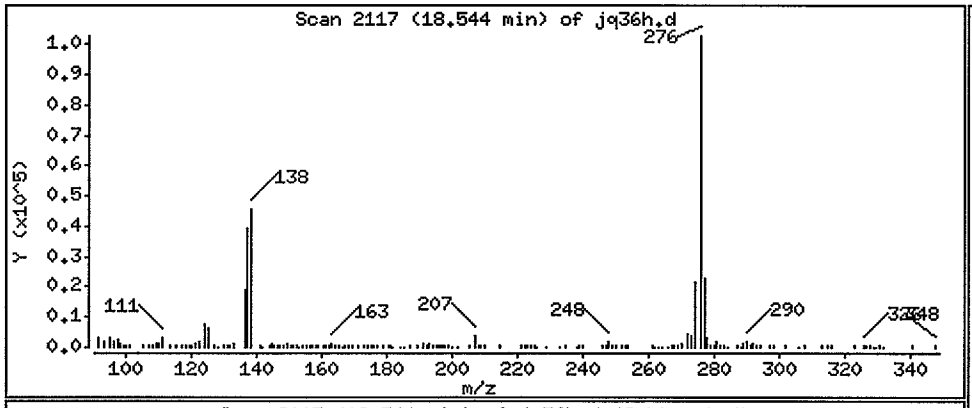
Operator: VTS

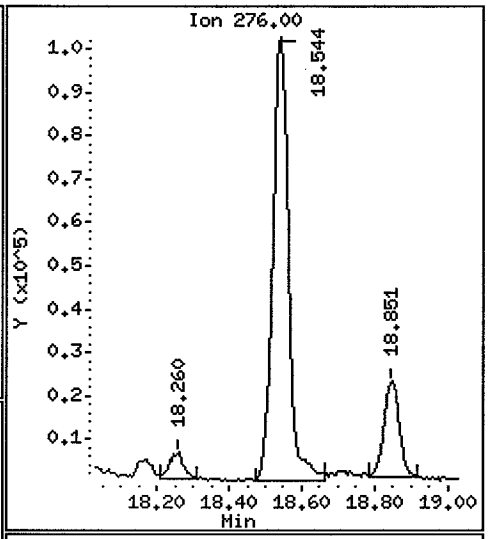
Column phase: ZB-5

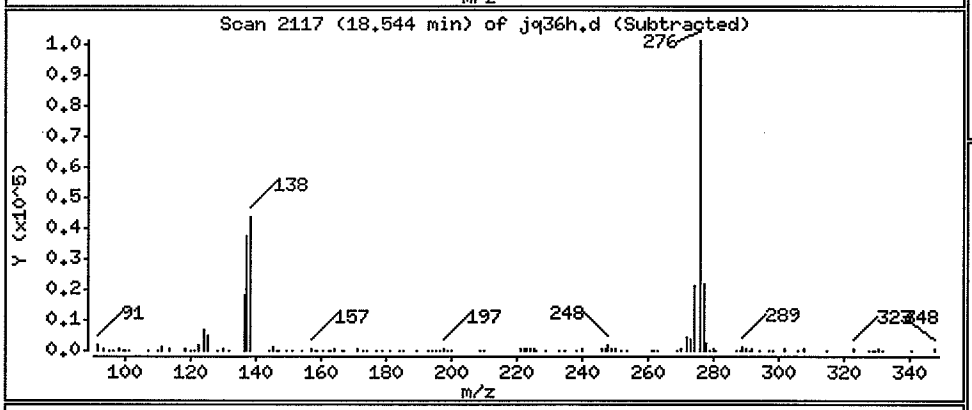
Column diameter: 0.25

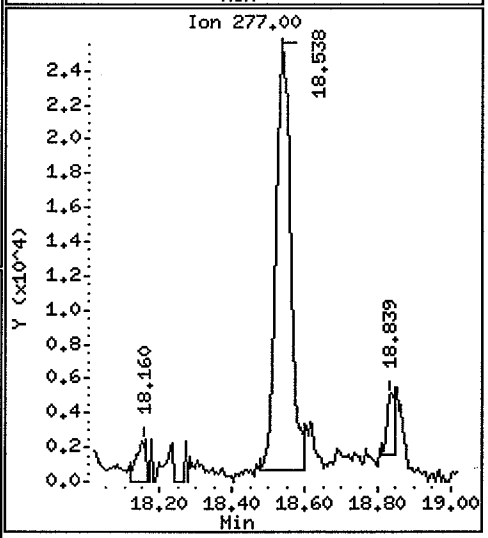
35 Benzo(g,h,i)perylene

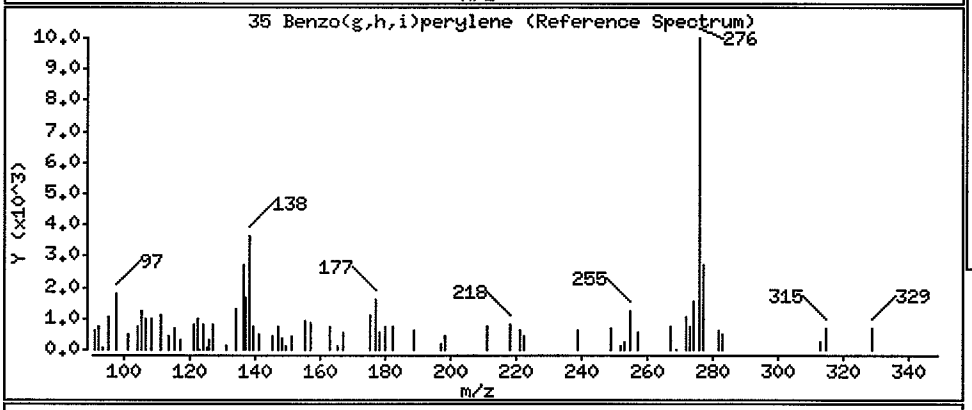
Concentration: 134.4 ug/kg

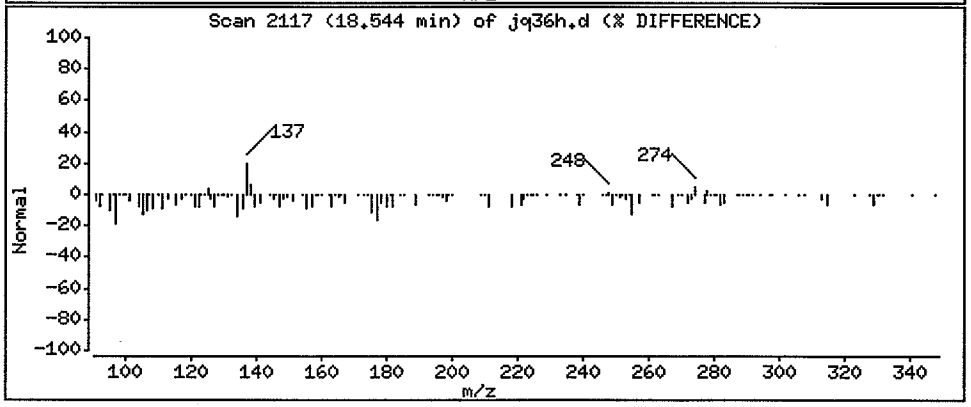












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

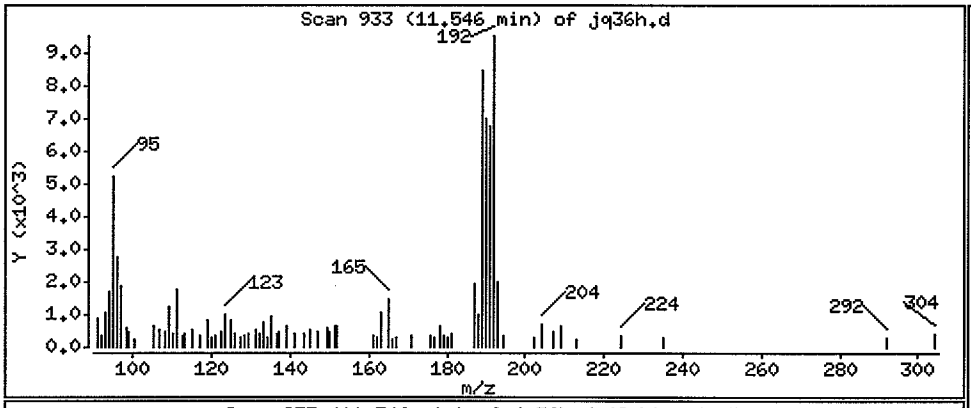
Operator: VTS

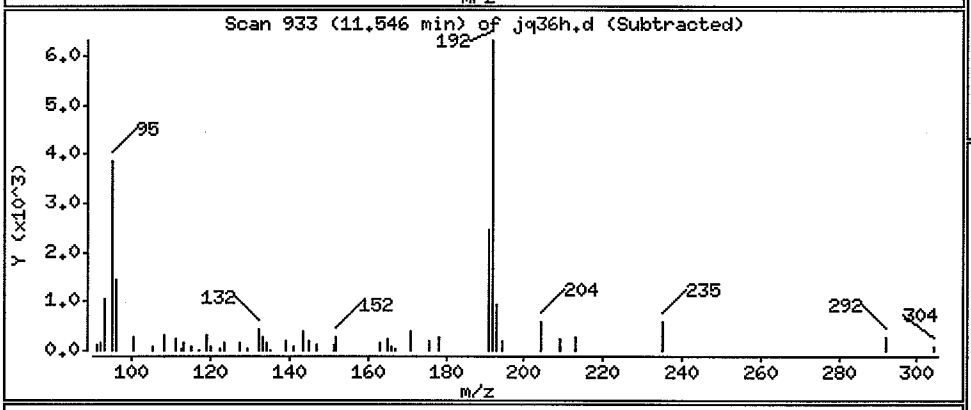
Column phase: ZB-5

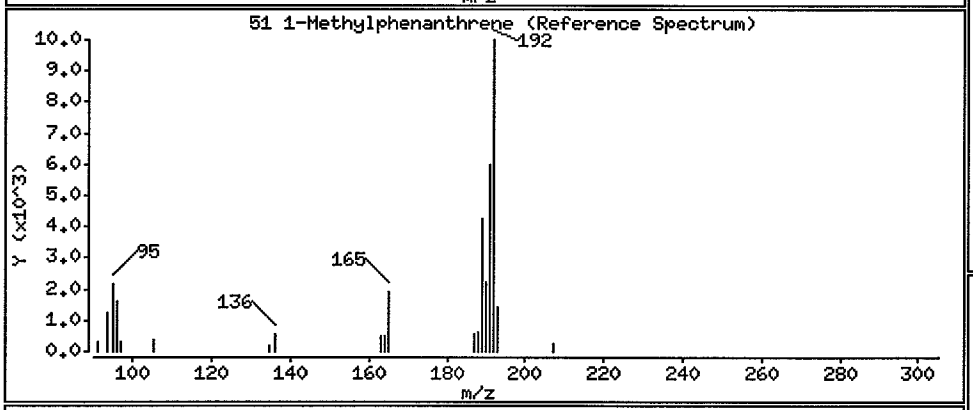
Column diameter: 0.25

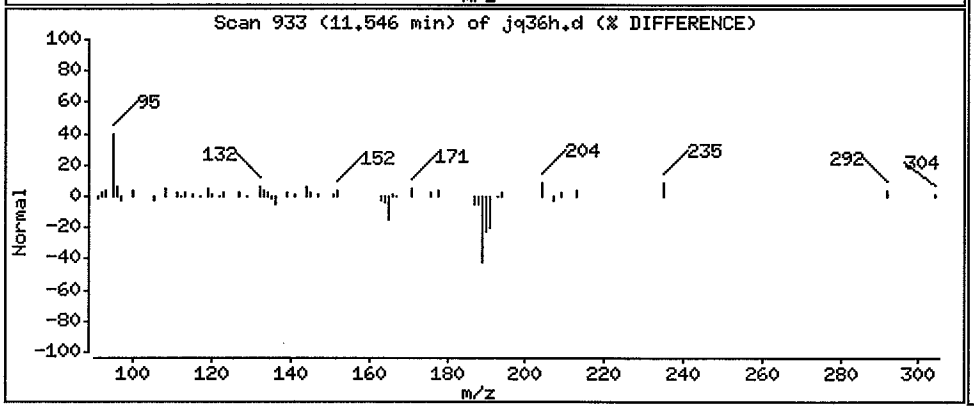
51 1-Methylphenanthrene

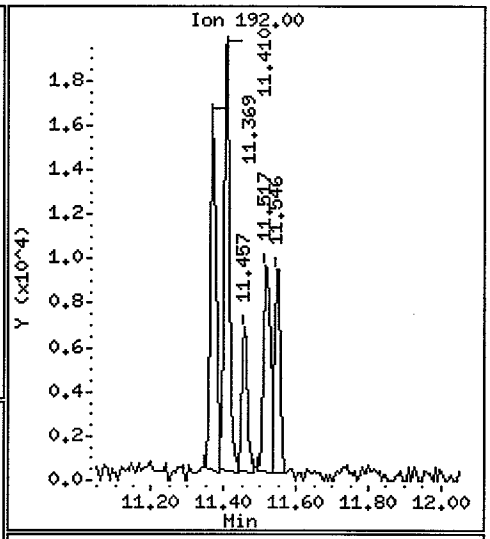
Concentration: 7.736 ug/kg

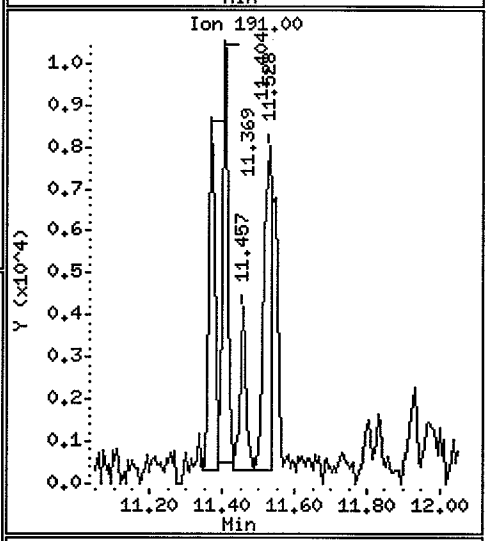


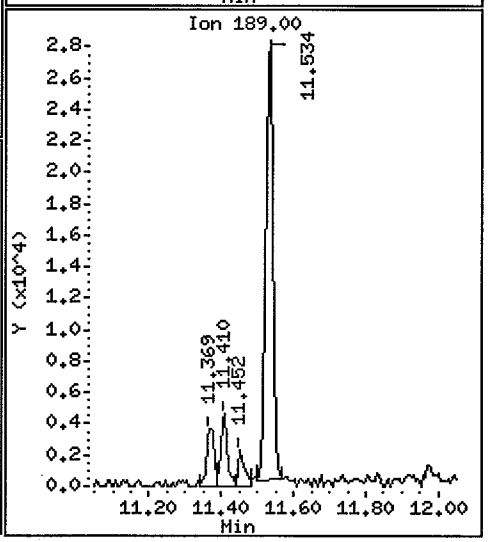












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

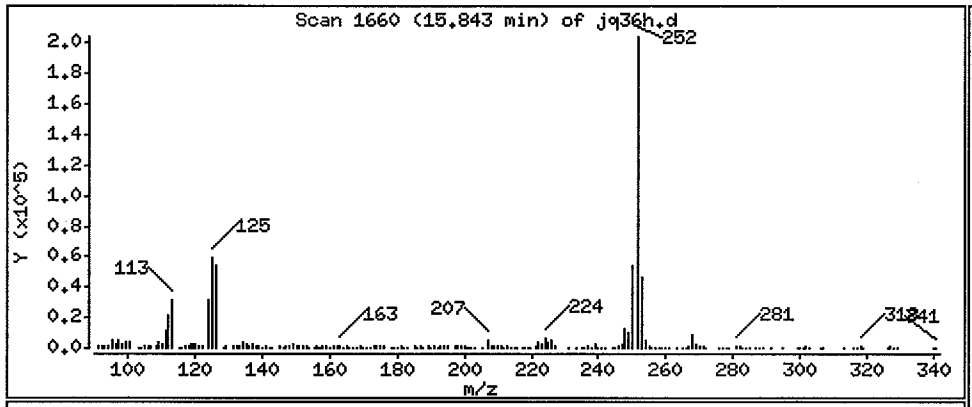
Operator: VTS

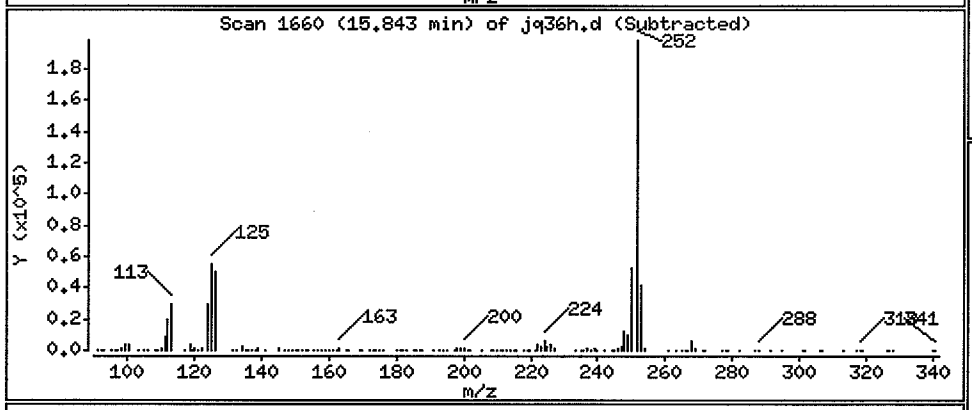
Column phase: ZB-5

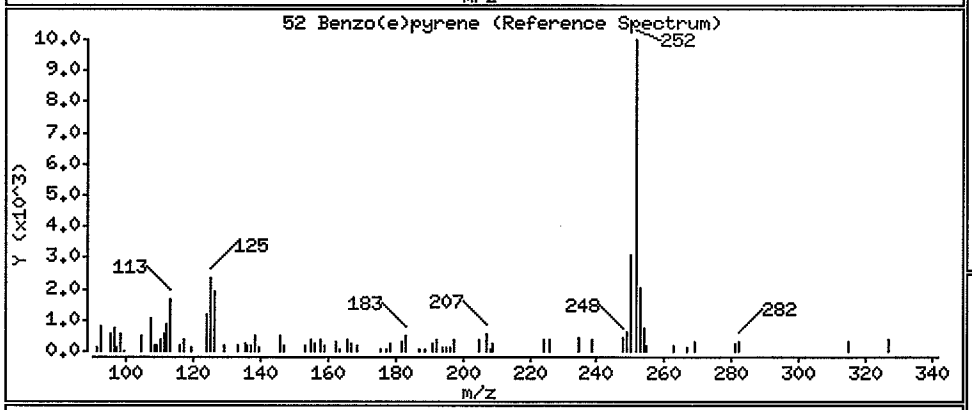
Column diameter: 0.25

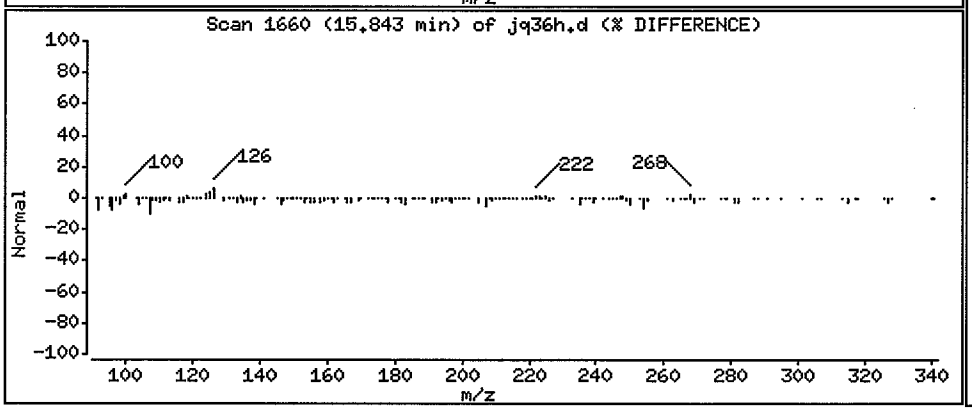
52 Benzo(e)pyrene

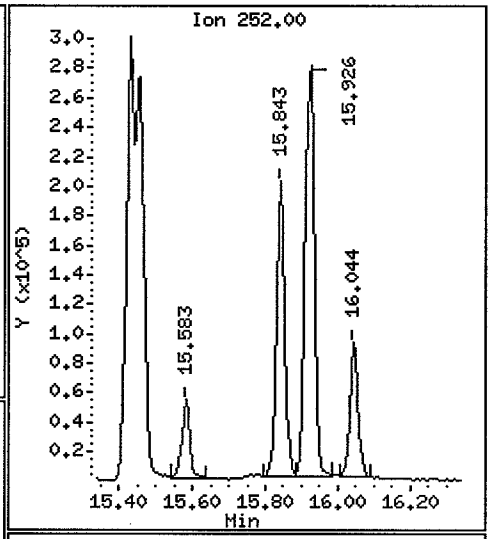
Concentration: 125.7 ug/kg

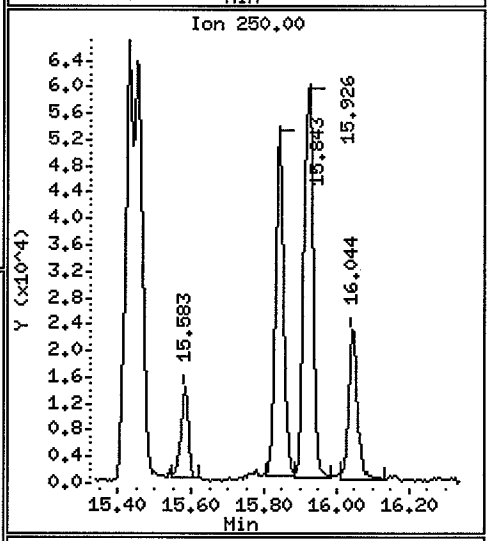


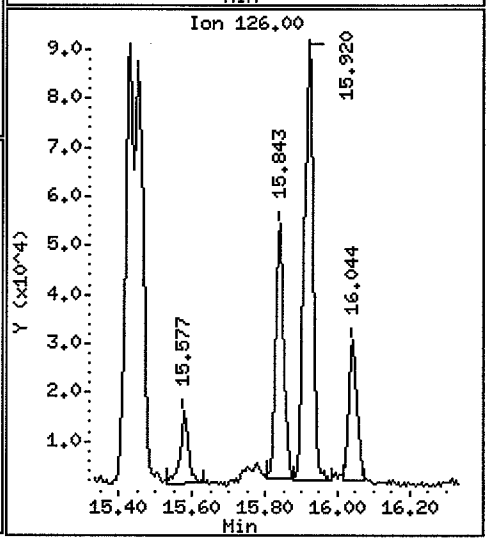












Data File: /chem3/nt1.i/20060810.b/jq36h.d

Date : 10-AUG-2006 18:21

Client ID: T4-S3-04-D

Instrument: nt1.i

Sample Info: JQ36H

Volume Injected (uL): 1.0

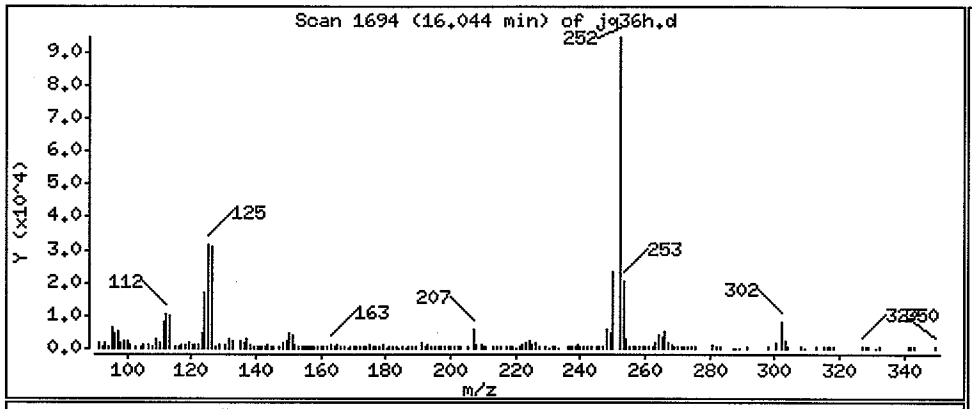
Operator: VTS

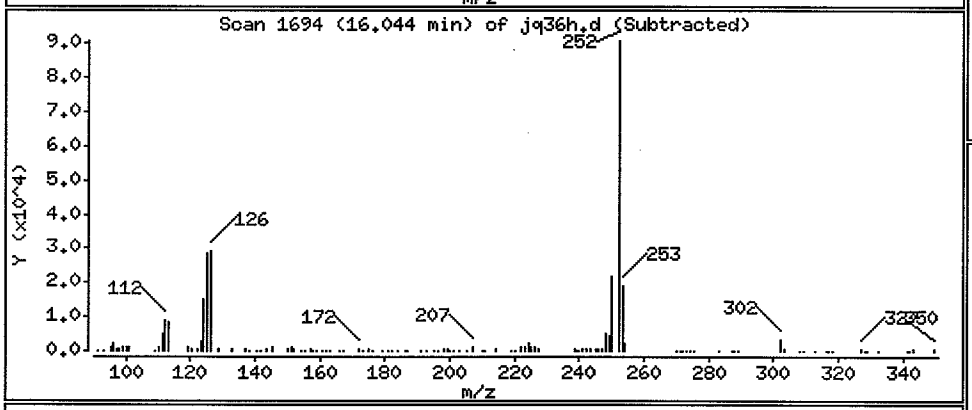
Column phase: ZB-5

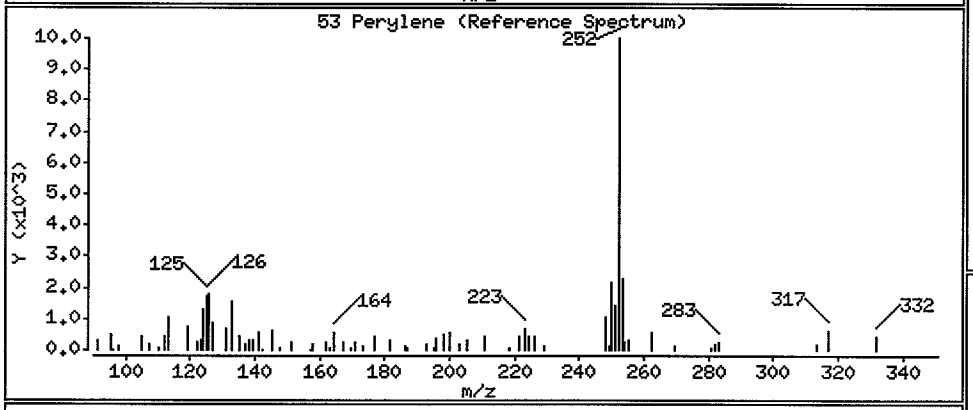
Column diameter: 0.25

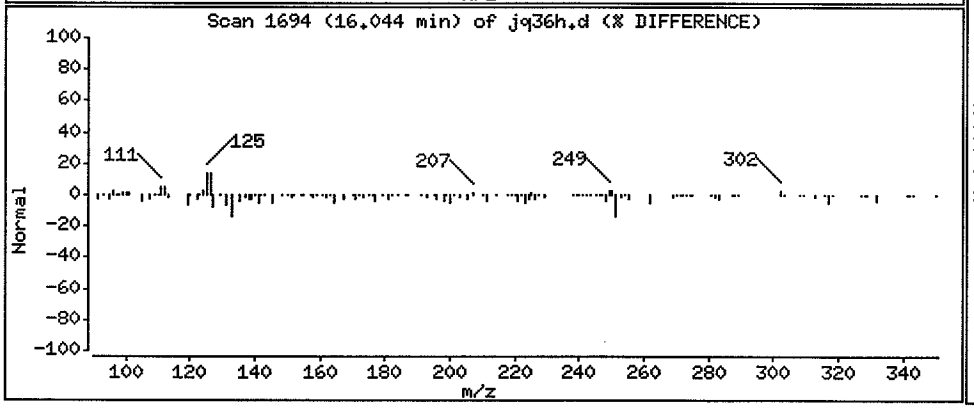
53 Perylene

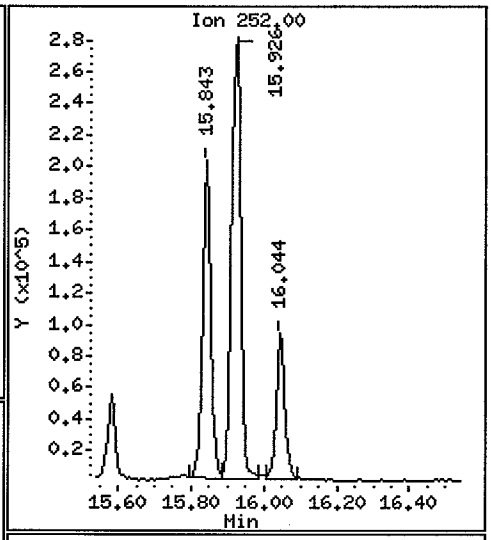
Concentration: 61.06 ug/kg

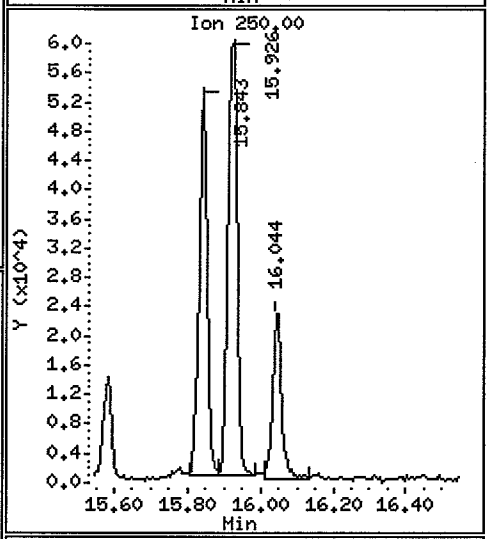


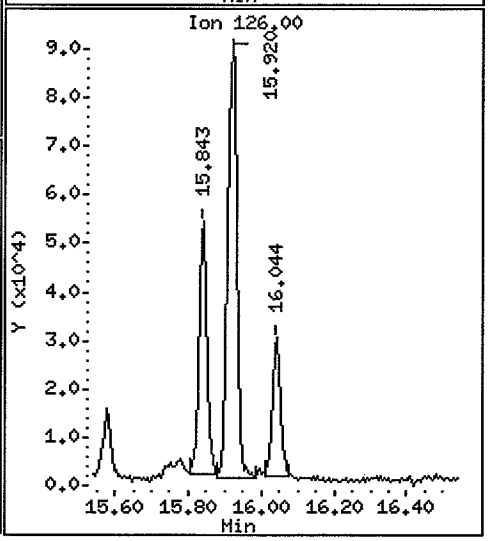












ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JQ36I
LIMS ID: 06-12980
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 18:45
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 56.7%
pH: 7.1

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.9	20	
91-57-6	2-Methylnaphthalene	4.9	11	
90-12-0	1-Methylnaphthalene	4.9	5.9	
208-96-8	Acenaphthylene	4.9	13	
83-32-9	Acenaphthene	4.9	41	
86-73-7	Fluorene	4.9	27	
85-01-8	Phenanthrene	4.9	240	
120-12-7	Anthracene	4.9	68	
206-44-0	Fluoranthene	4.9	570	E
129-00-0	Pyrene	4.9	500	E
56-55-3	Benzo(a)anthracene	4.9	280	
218-01-9	Chrysene	4.9	390	
205-99-2	Benzo(b)fluoranthene	4.9	420	
207-08-9	Benzo(k)fluoranthene	4.9	320	
50-32-8	Benzo(a)pyrene	4.9	400	
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	200	
53-70-3	Dibenz(a,h)anthracene	4.9	71	
191-24-2	Benzo(g,h,i)perylene	4.9	210	
198-55-0	Perylene	4.9	160	
92-52-4	Biphenyl	4.9	< 4.9	U
581-42-0	2,6-Dimethylnaphthalene	4.9	6.4	
832-69-9	1-Methylphenanthrene	4.9	16	
192-97-2	Benzo(e)pyrene	4.9	250	
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	5.4	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	52.0%
d14-Dibenzo(a,h)anthracen	51.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36i.d
Lab Smp Id: JQ36I Client Smp ID: T4-WB-01
Inj Date : 10-AUG-2006 18:45
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36I
Misc Info : 06-12980
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 9
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	23.60000	Weight of sample extracted (g)
M	56.70000	% 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	6.873	6.874	(1.000)	282183	2.00000		
	2 Naphthalene	128	6.896	6.898	(1.003)	55608	0.39508	19.33	
$	3 2-Methylnaphthalene-d10	152	7.629	7.630	(1.110)	113053	1.55546	76.11	
	4 2-Methylnaphthalene	142	7.665	7.666	(1.115)	18928	0.22708	11.11	
	5 1-Methylnaphthalene	142	7.801	7.796	(1.135)	10762	0.12309	6.023	
	7 Acenaphthylene	152	8.758	8.753	(0.980)	31038	0.26537	12.98	
*	8 Acenaphthene-d10	164	8.935	8.937	(1.000)	141073	2.00000		
	9 Acenaphthene	153	8.971	8.972	(1.004)	57336	0.82773	40.50	
	10 Dibenzofuran	168	9.160	9.161	(1.025)	24256	0.23773	11.63	
	11 Fluorene	166	9.585	9.587	(1.073)	43785	0.55124	26.97	
*	15 Phenanthrene-d10	188	10.750	10.745	(1.000)	214898	2.00000		
	16 Phenanthrene	178	10.779	10.775	(1.003)	530883	4.81292	235.5	
	17 Anthracene	178	10.832	10.828	(1.008)	153001	1.38801	67.91	
	19 Fluoranthene	202	12.269	12.270	(1.141)	1309571	11.6399	569.5	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.558	12.554	(0.893)	1361147	10.2326	500.7	E
	22 Benzo(a)anthracene	228	14.042	14.037	(0.999)	726633	5.82488	285.0	
*	23 Chrysene-d12	240	14.059	14.055	(1.000)	207156	2.00000		
	24 Chrysene	228	14.095	14.090	(1.003)	916577	7.96604	389.8	
	28 Benzo(b)fluoranthene	252	15.436	15.426	(0.964)	1100802	8.53099	417.4	
	29 Benzo(k)fluoranthene	252	15.466	15.455	(0.966)	892271	6.48621	317.4	
	30 Benzo(a)pyrene	252	15.933	15.916	(0.995)	1015424	8.07605	395.2	
*	31 Perylene-d12	264	16.016	15.999	(1.000)	228634	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.978	17.949	(1.123)	581085	4.01878	196.6	
$	32 Dibenz(a,h)anthrancene-d14	292	17.901	17.873	(1.118)	135866	1.55280	75.98	
	34 Dibenz(a,h)anthracene	278	17.960	17.944	(1.121)	170780	1.44579	70.74	
	35 Benzo(g,h,i)perylene	276	18.563	18.529	(1.159)	516872	4.30033	210.4	
	48 Biphenyl	154	8.208	8.204	(0.919)	6790	0.07790	3.812	J
	49 2,6-Dimethylnaphthalene	156	8.398	8.399	(0.940)	9064	0.13203	6.460	
	50 2,3,5-Trimethylnaphthalene	170	9.414	9.421	(1.054)	6010	0.10688	5.230	
	51 1-Methylphenanthrene	192	11.548	11.549	(0.821)	27732	0.32704	16.00	
	52 Benzo(e)pyrene	252	15.850	15.840	(0.990)	721108	5.18127	253.5	
	53 Perylene	252	16.057	16.040	(1.003)	423605	3.24164	158.6	

VTS
8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36i.d
Lab Smp Id: JQ36I
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12980

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-WB-01
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	282183	11.44
8 Acenaphthene-d10	122198	61099	244396	141073	15.45
15 Phenanthrene-d10	181565	90782	363130	214898	18.36
23 Chrysene-d12	143956	71978	287912	207156	43.90
31 Perylene-d12	157395	78698	314790	228634	45.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.02
8 Acenaphthene-d10	8.94	8.44	9.44	8.94	-0.01
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.04
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.03
31 Perylene-d12	16.00	15.50	16.50	16.02	0.10

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

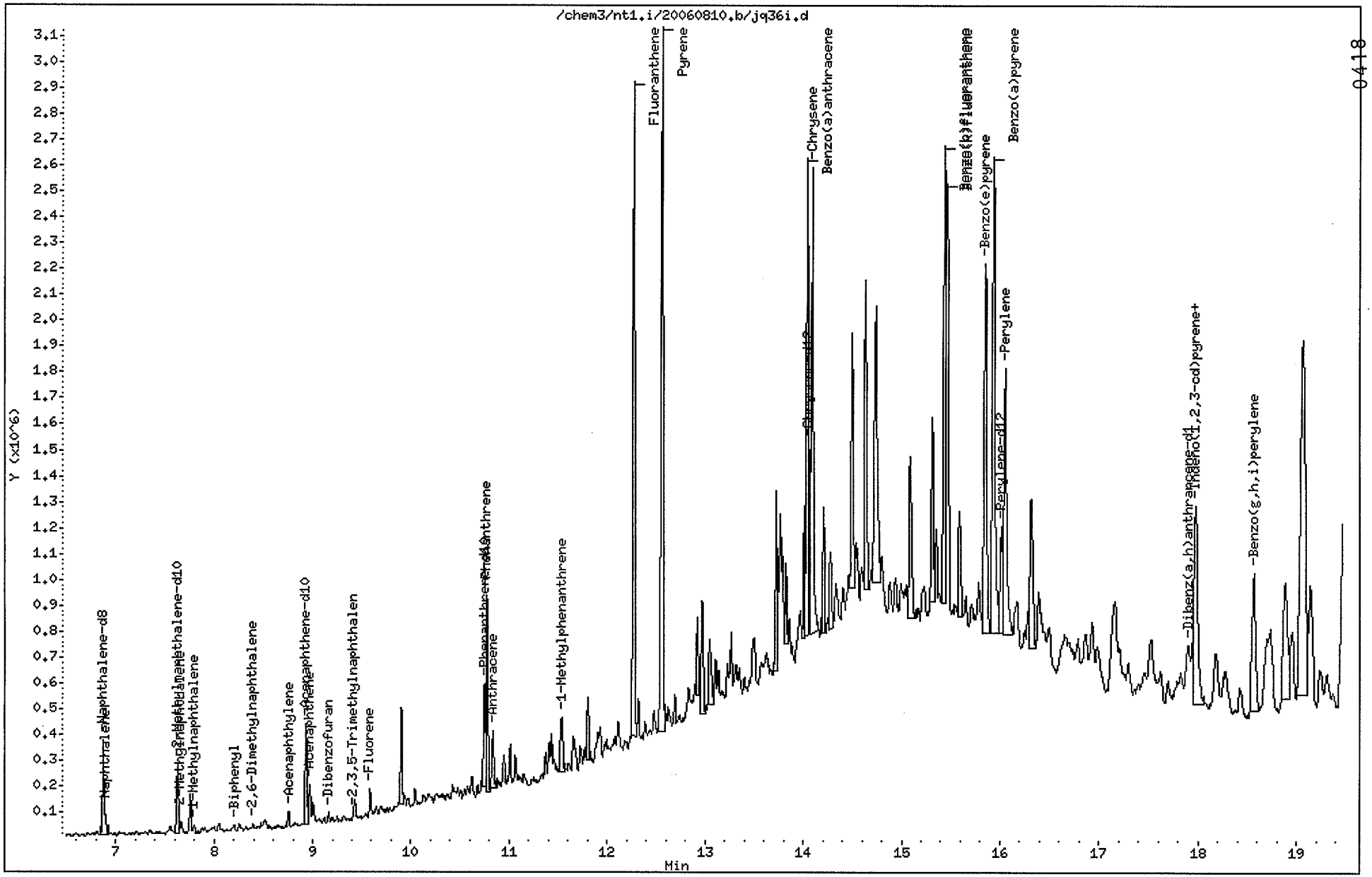
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36I
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12980

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-WB-01
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	146.8	76.11	51.85	32-97
$ 32 Dibenz(a,h)anthran	146.8	75.98	51.76	21-105

Data File: /chem3/nt1.i/20060810.b/jq36i.d
Date : 10-AUG-2006 18:45
Client ID: T4-WB-01
Sample Info: JQ36I
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

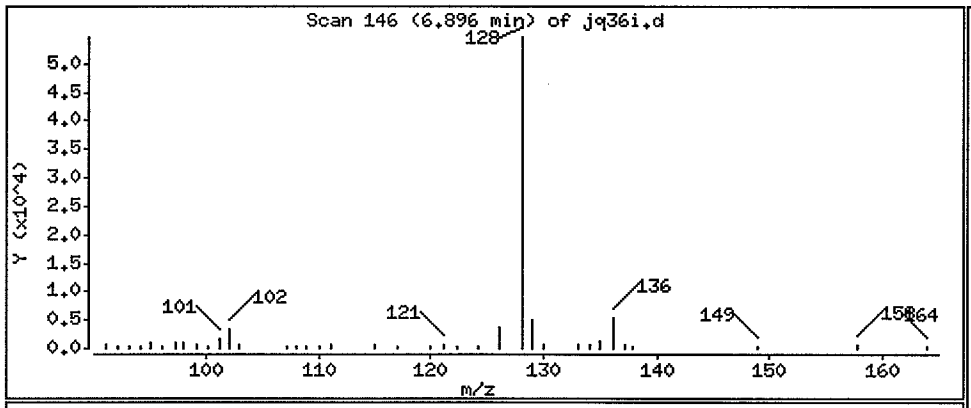
Operator: VTS

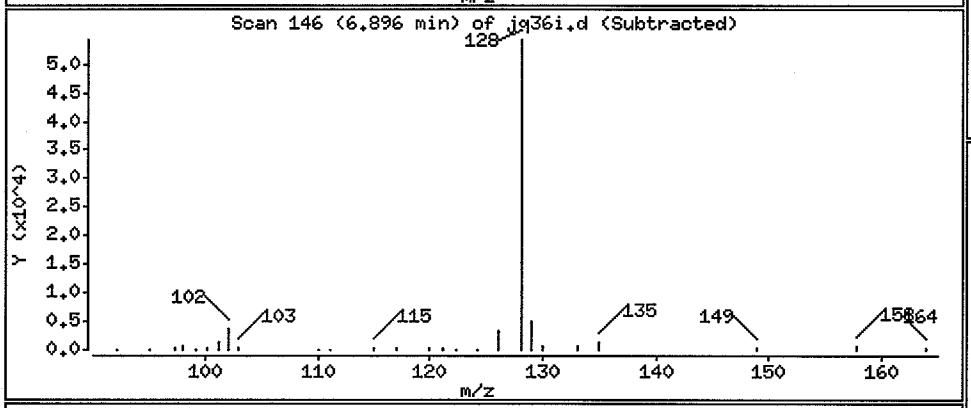
Column phase: ZB-5

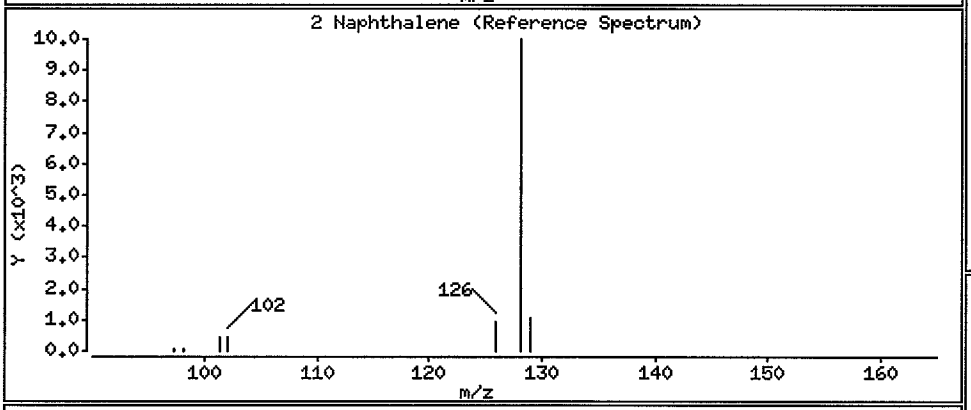
Column diameter: 0.25

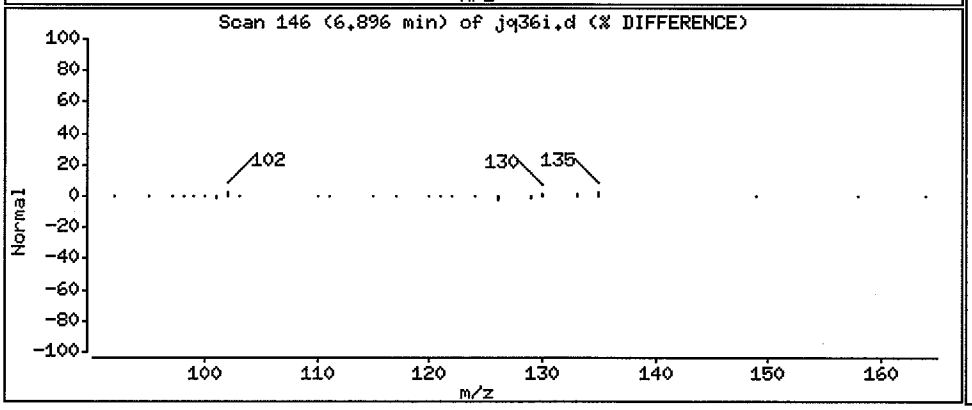
2 Naphthalene

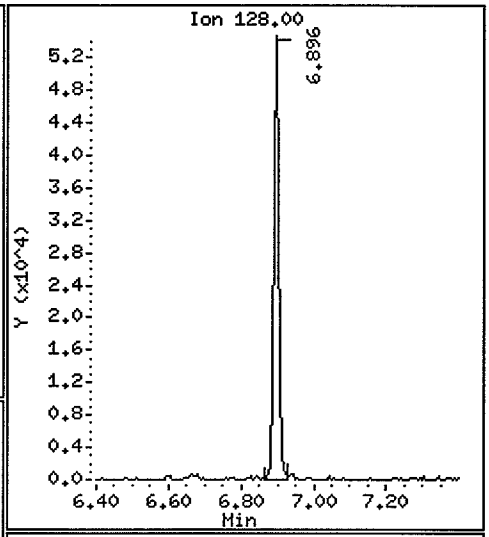
Concentration: 19.33 ug/kg

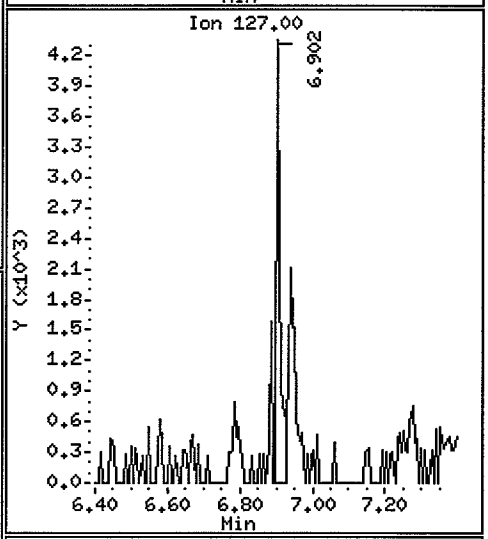


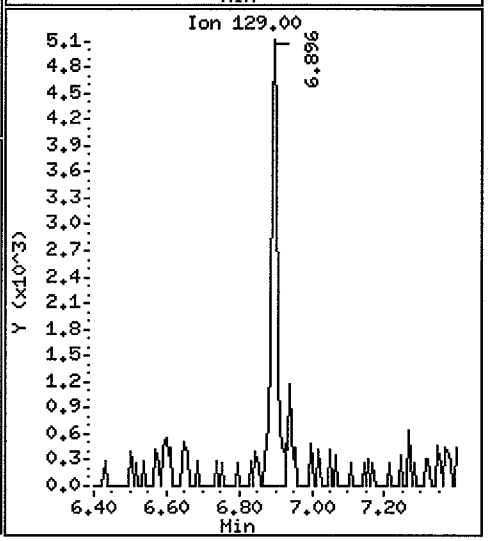












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

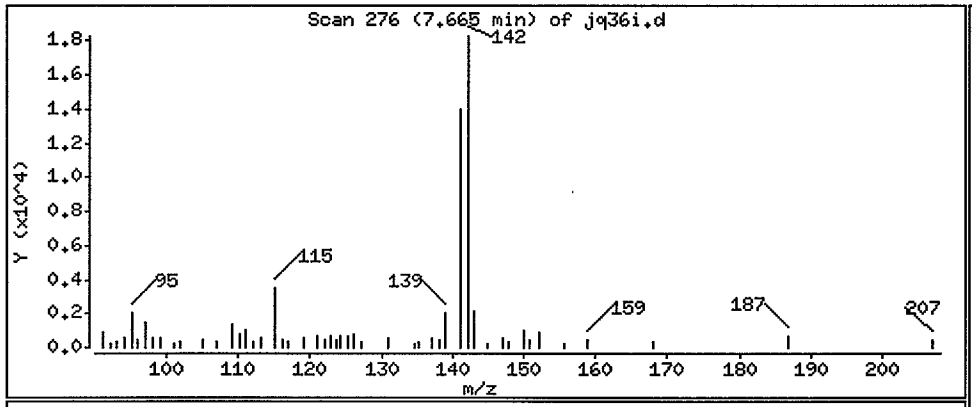
Operator: VTS

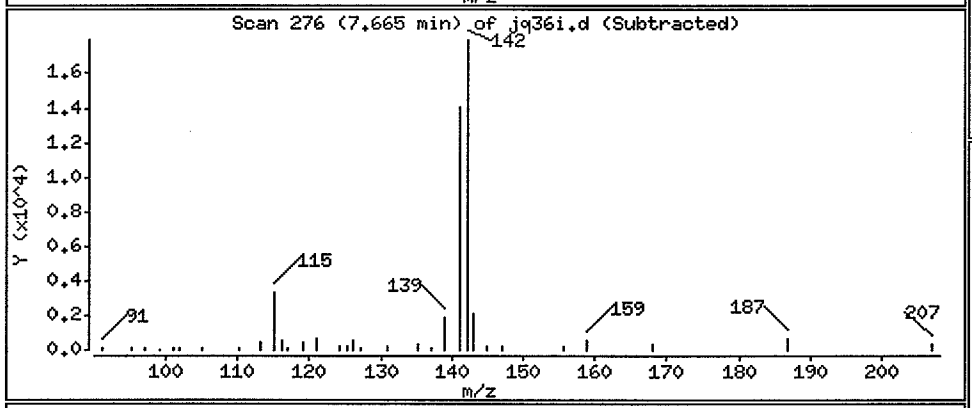
Column phase: ZB-5

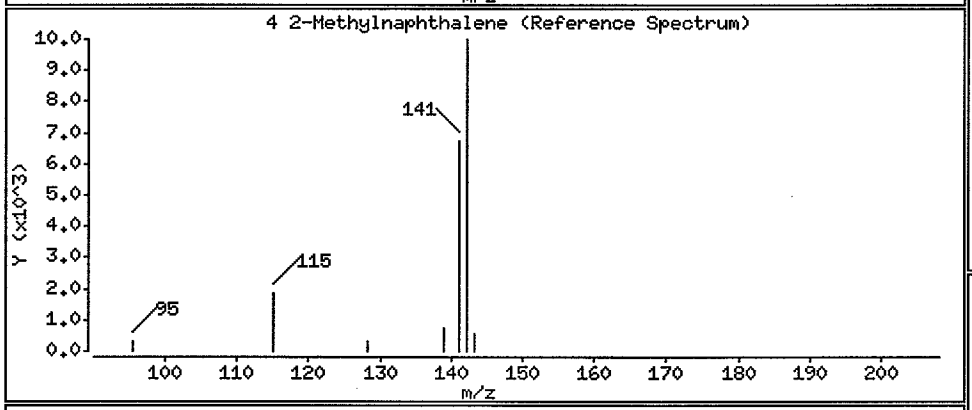
Column diameter: 0.25

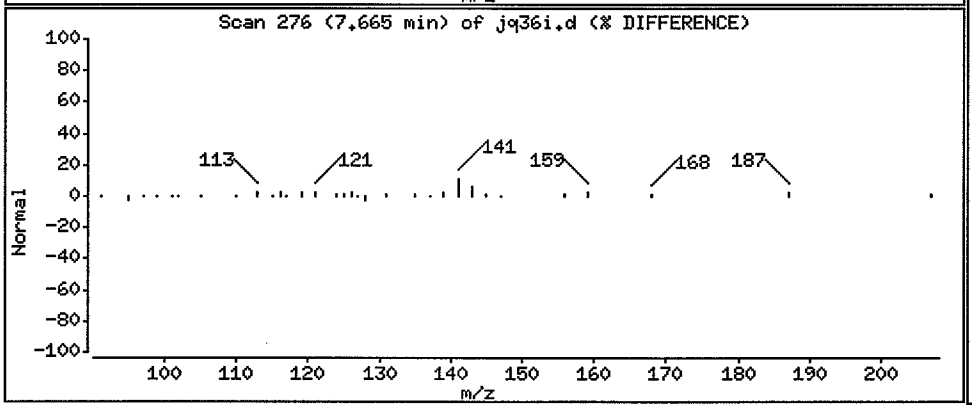
4 2-Methylnaphthalene

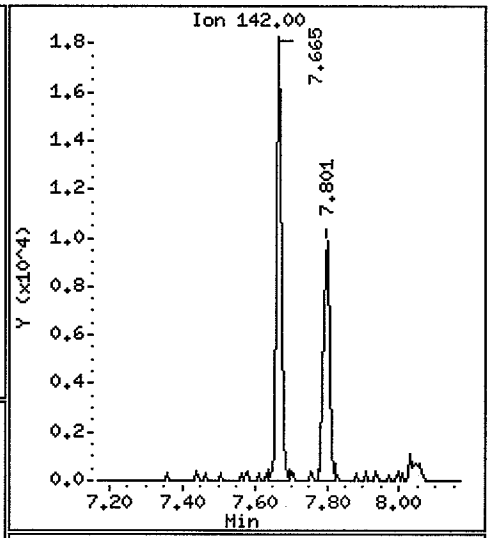
Concentration: 11.11 ug/kg

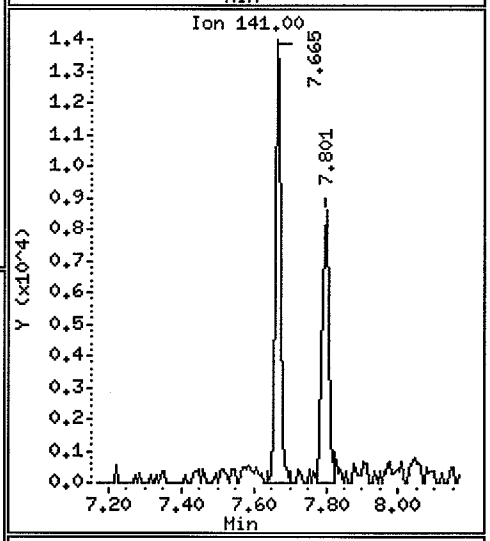


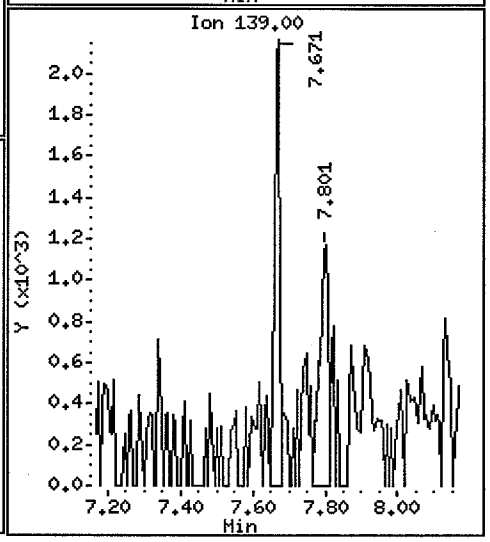












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

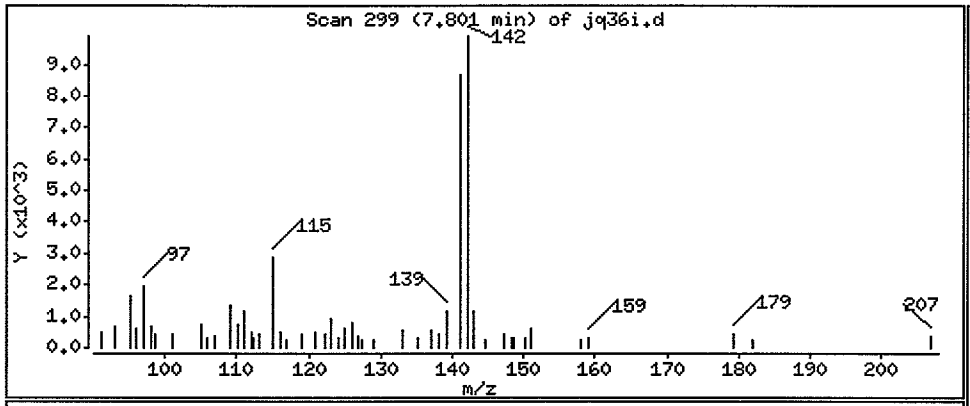
Operator: VTS

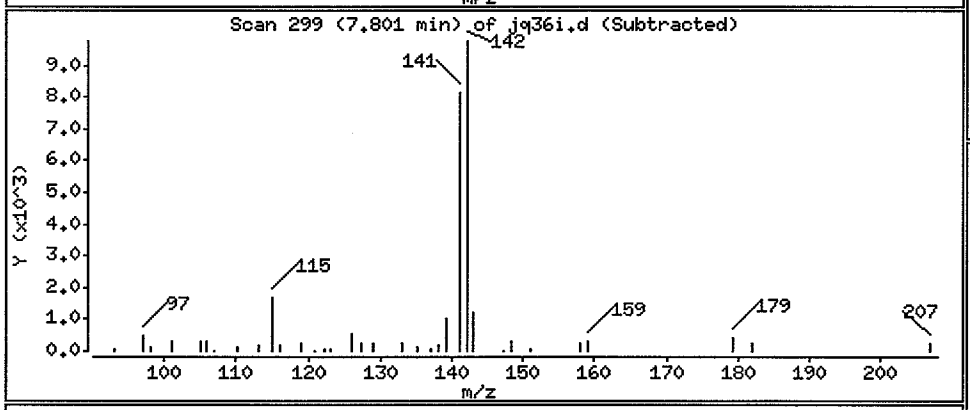
Column phase: ZB-5

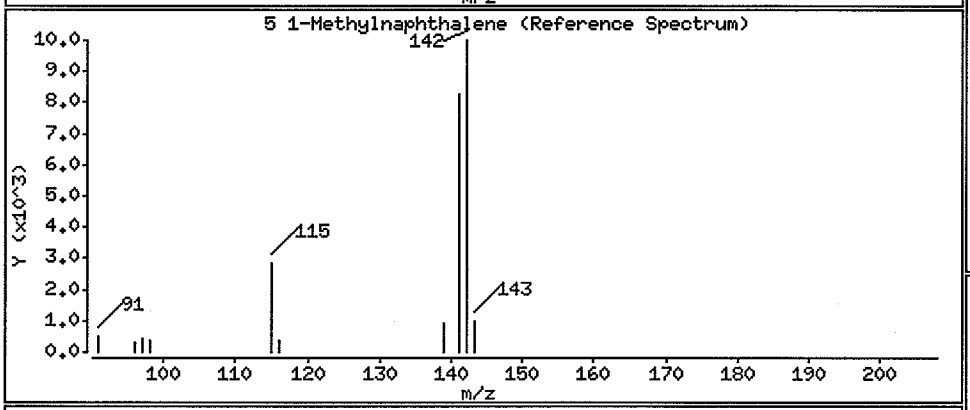
Column diameter: 0.25

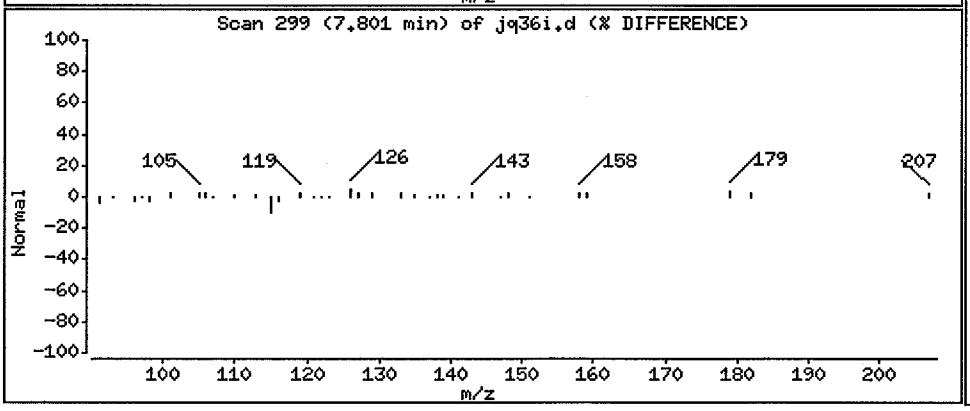
5 1-Methylnaphthalene

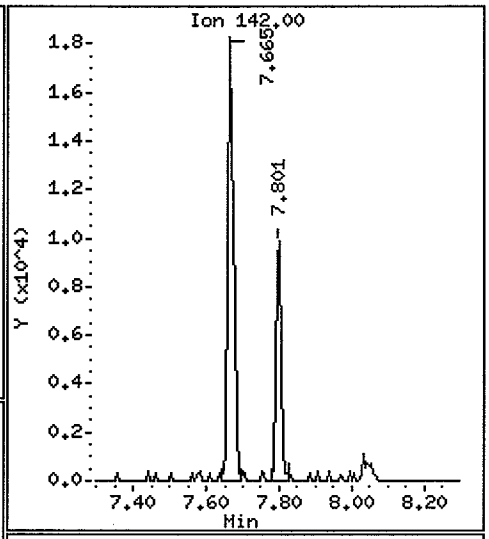
Concentration: 6.023 ug/kg

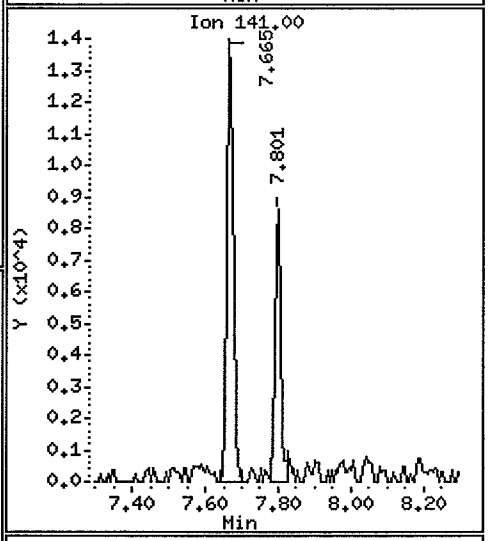


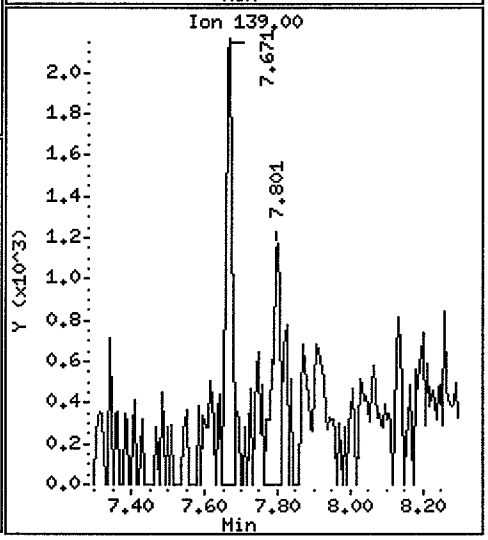












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

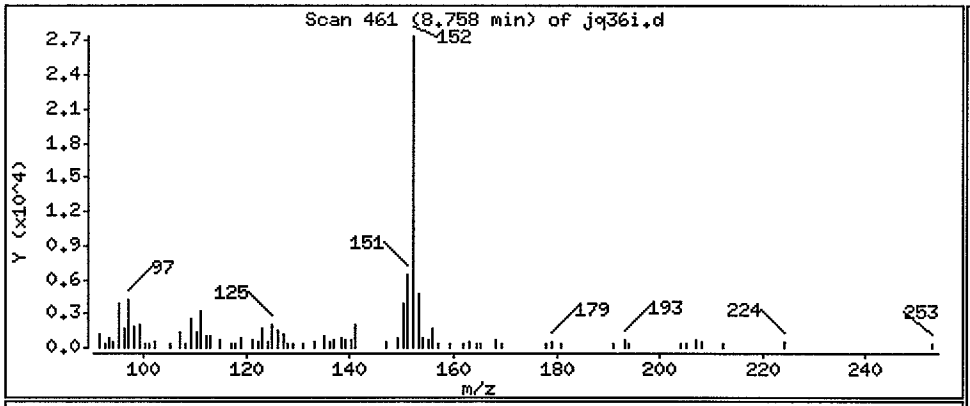
Operator: VTS

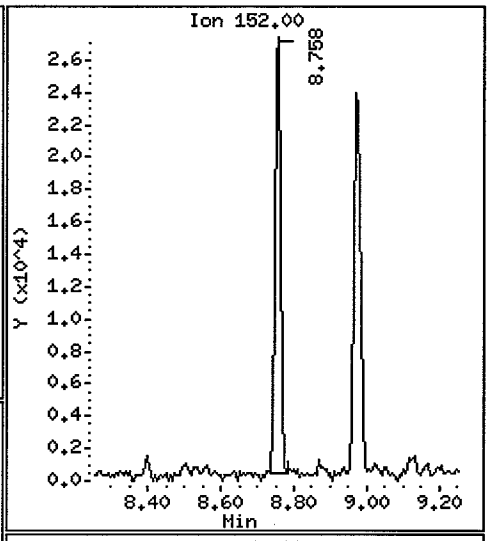
Column phase: ZB-5

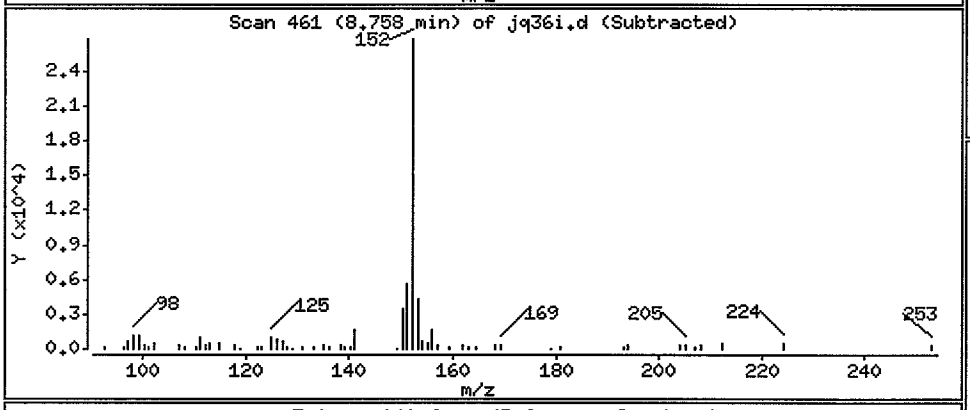
Column diameter: 0.25

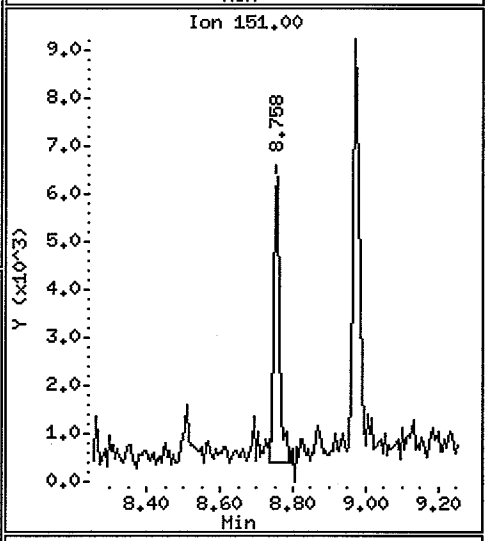
7 Acenaphthylene

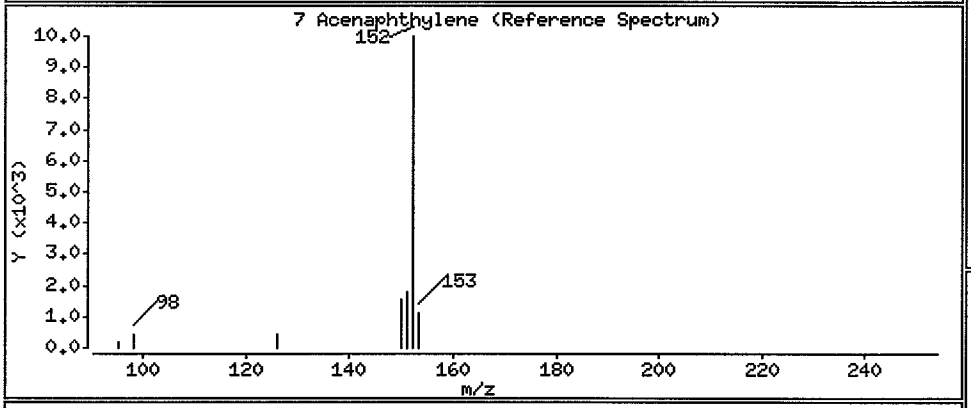
Concentration: 12.98 ug/kg

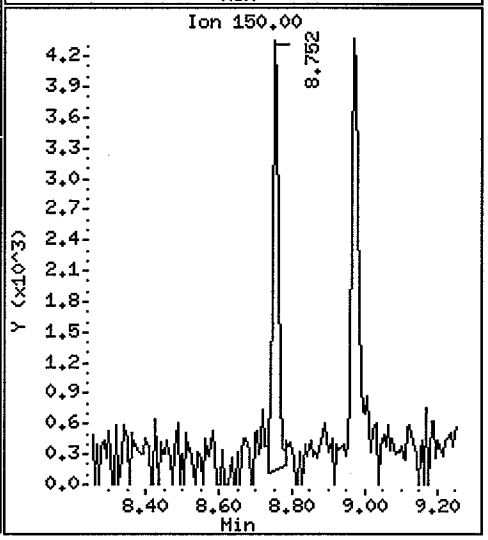


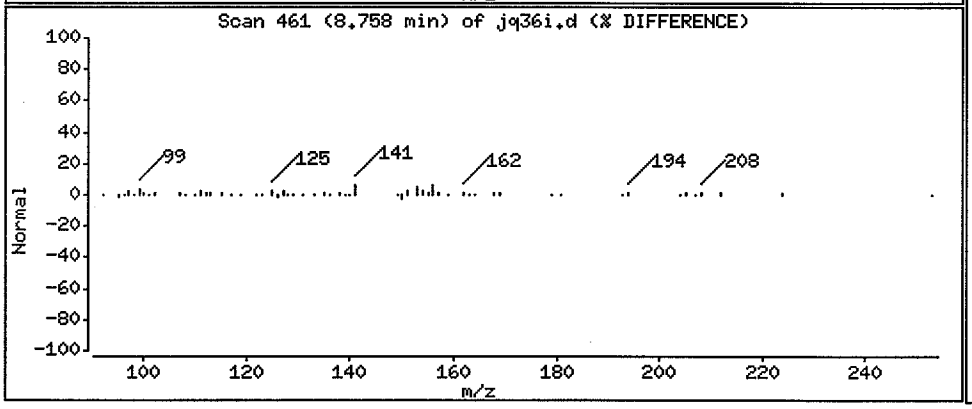












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

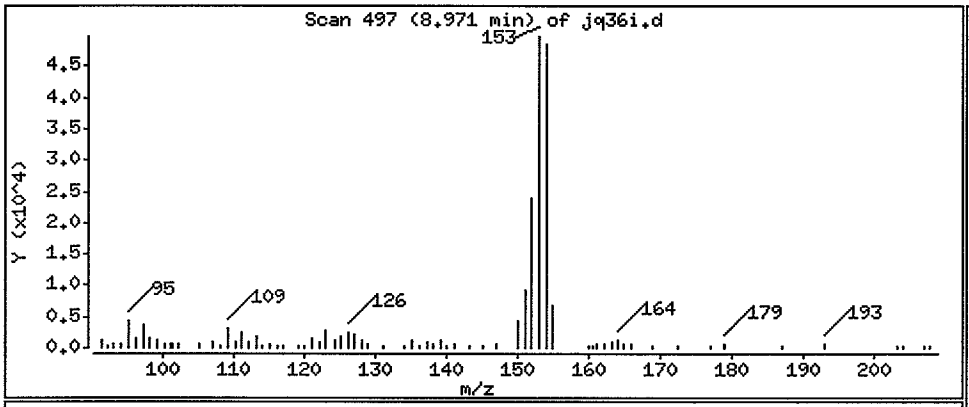
Operator: VTS

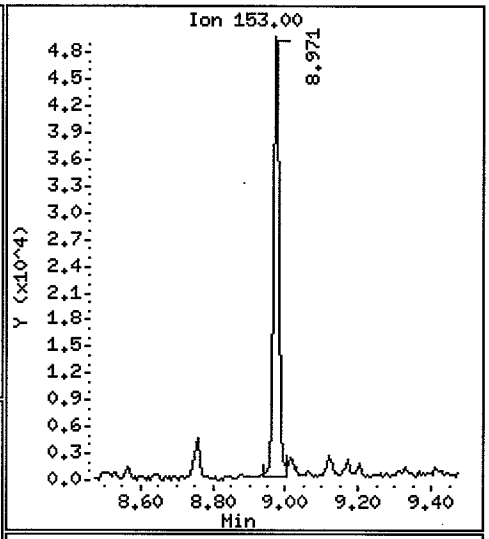
Column phase: ZB-5

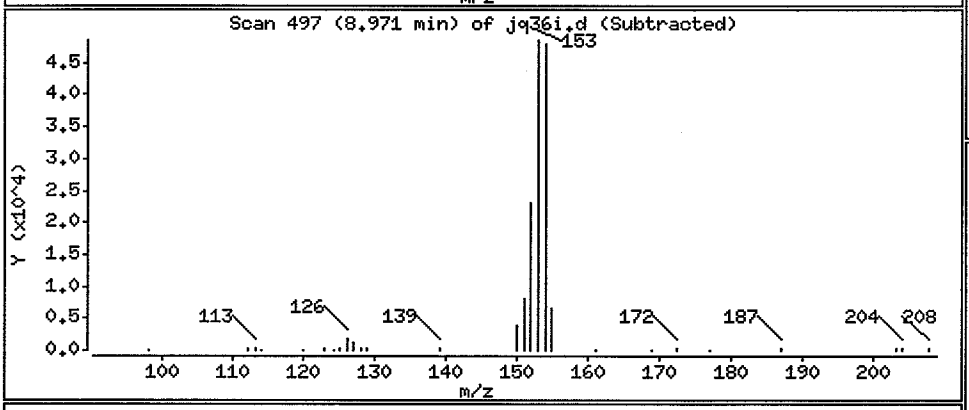
Column diameter: 0.25

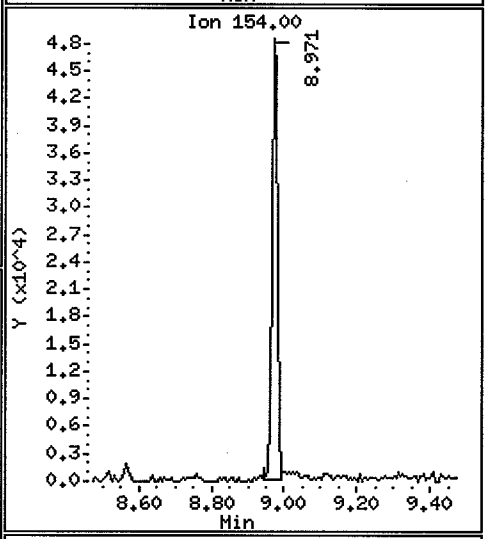
9 Acenaphthene

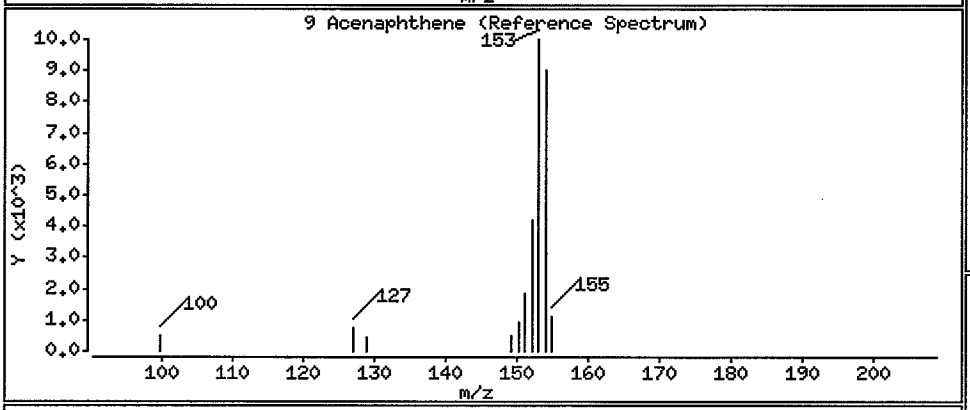
Concentration: 40.50 ug/kg

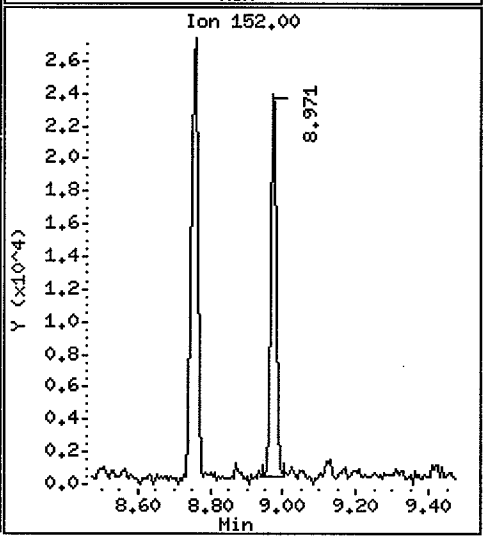


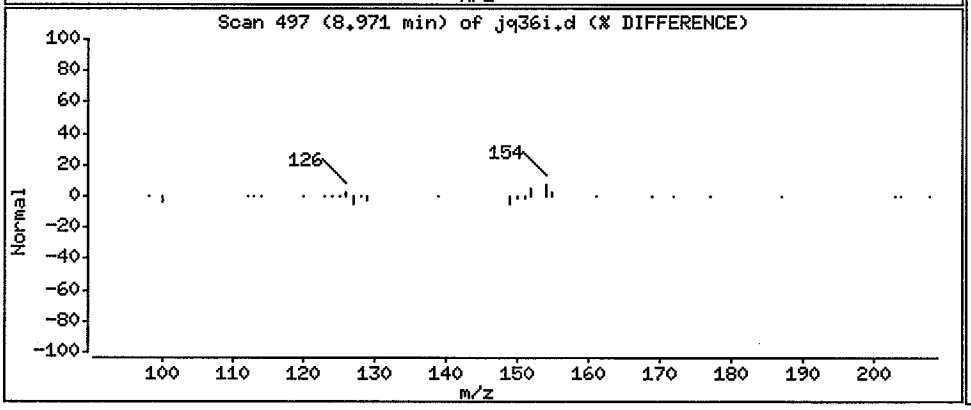












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

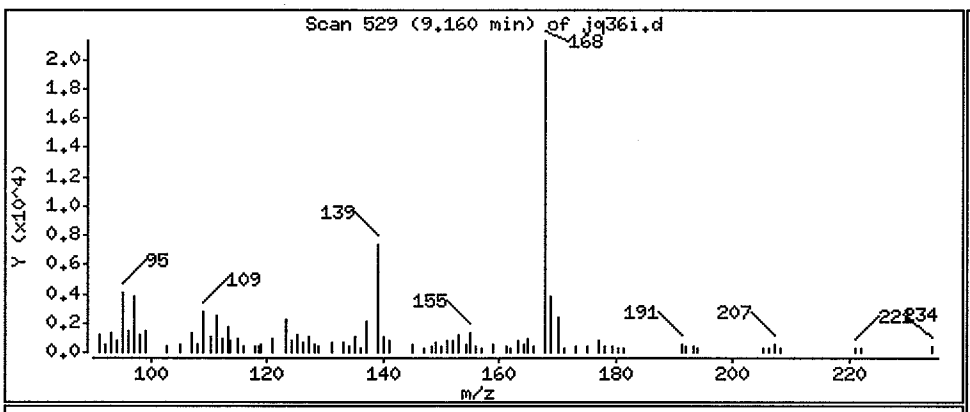
Client ID: T4-WB-01 Instrument: nt1.i

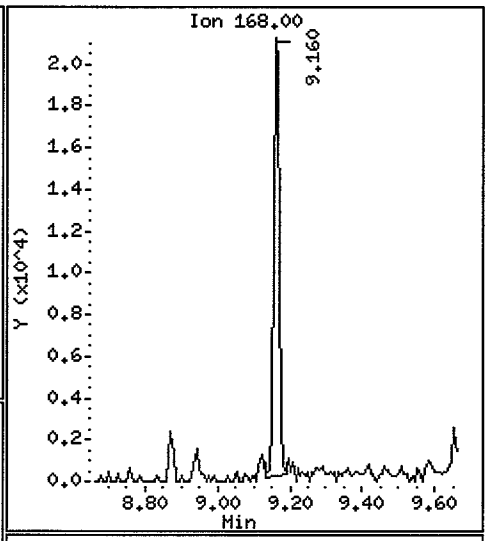
Sample Info: JQ36I

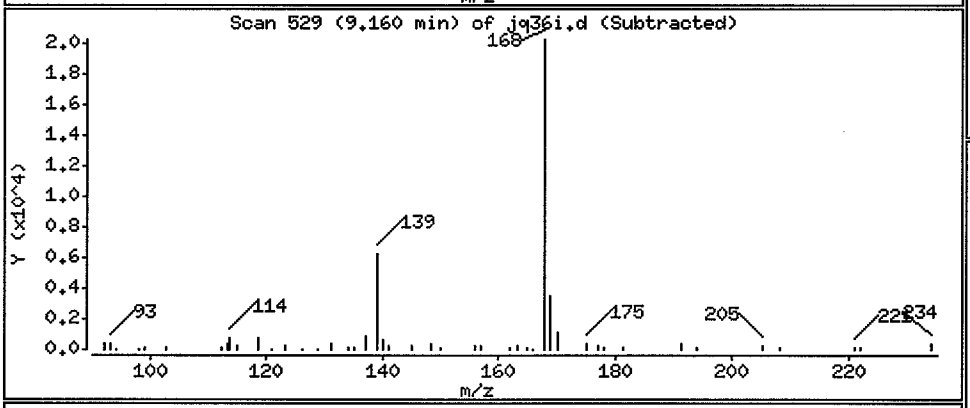
Volume Injected (uL): 1.0 Operator: VTS

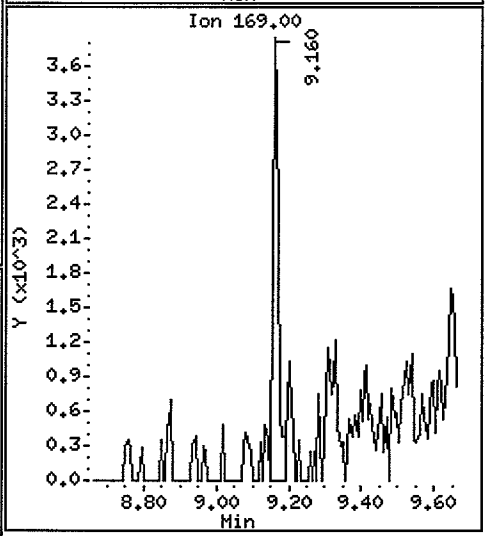
Column phase: ZB-5 Column diameter: 0.25

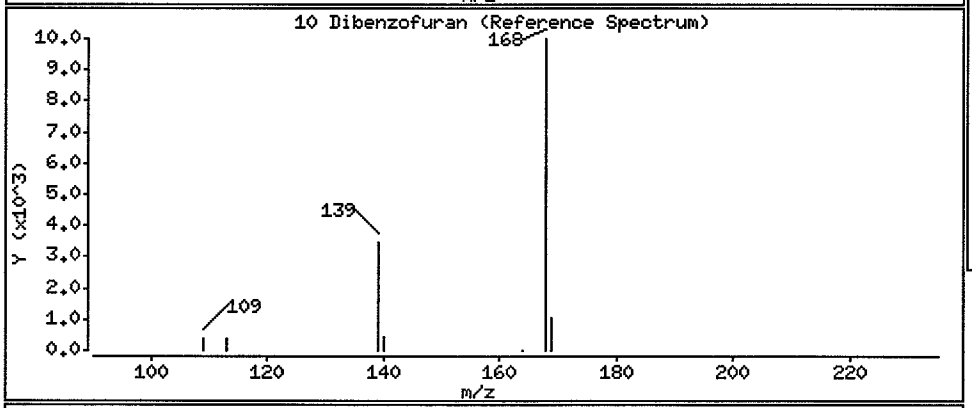
10 Dibenzofuran Concentration: 11.63 ug/kg

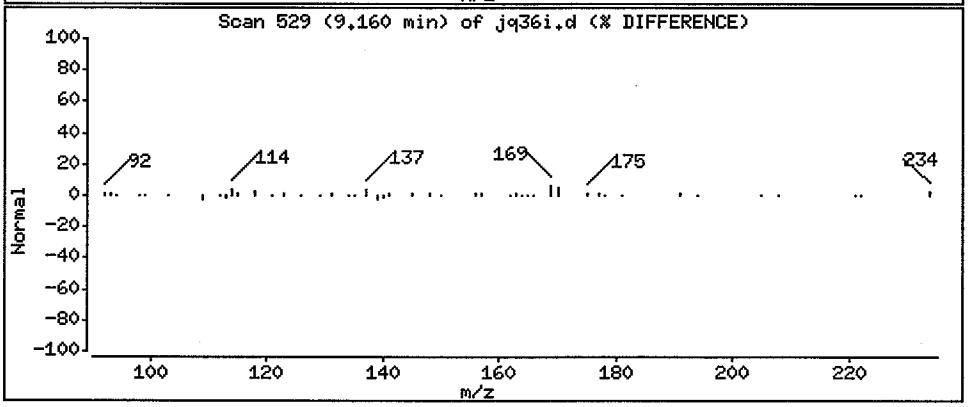












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

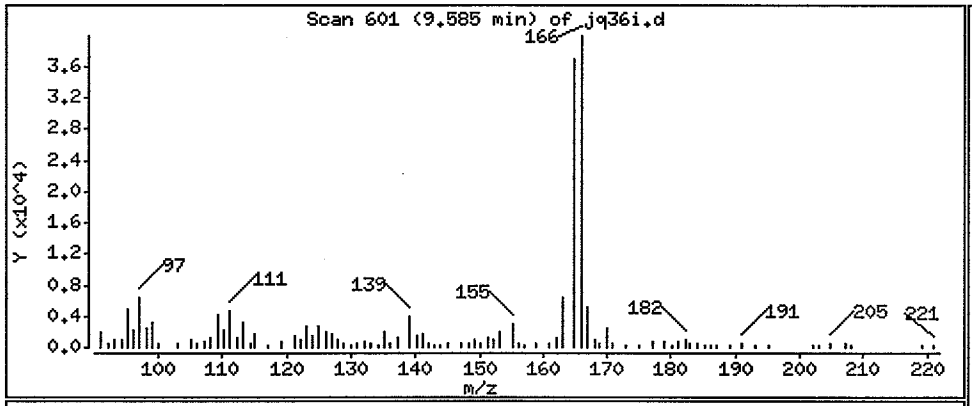
Operator: VTS

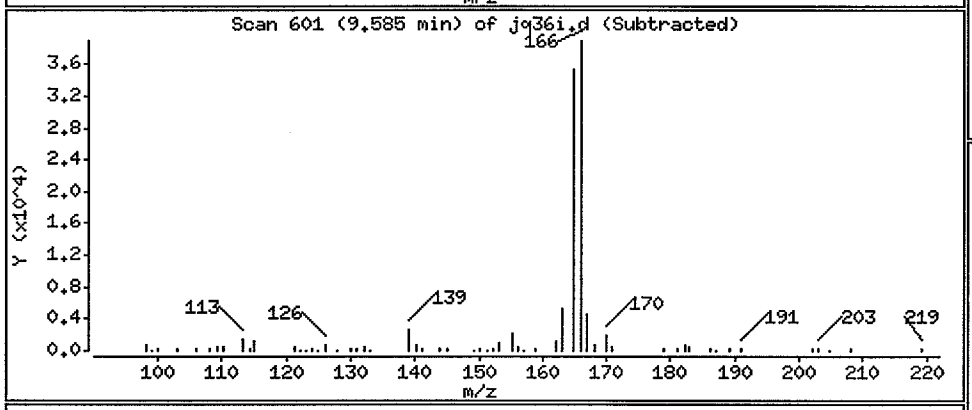
Column phase: ZB-5

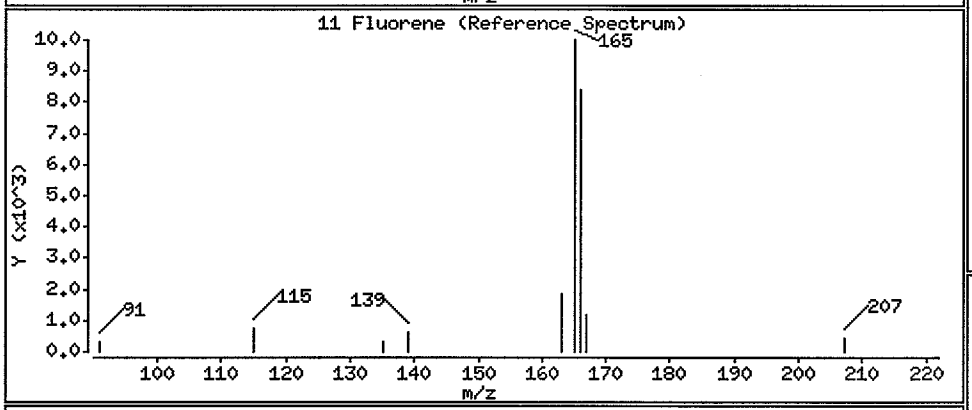
Column diameter: 0.25

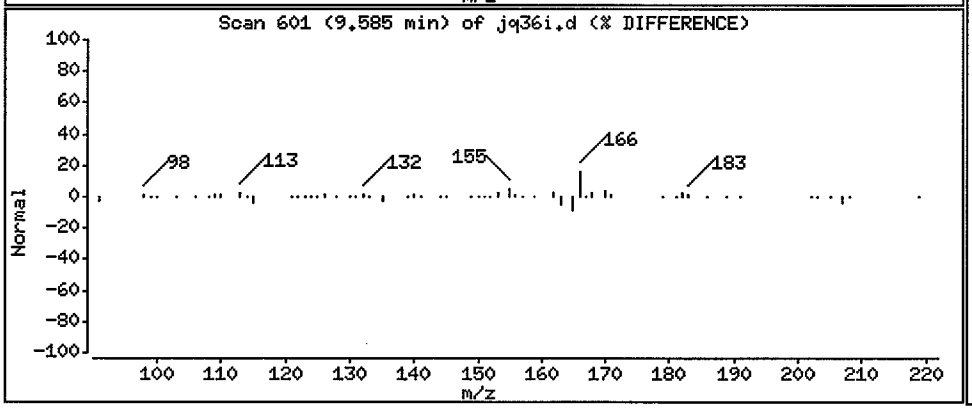
11 Fluorene

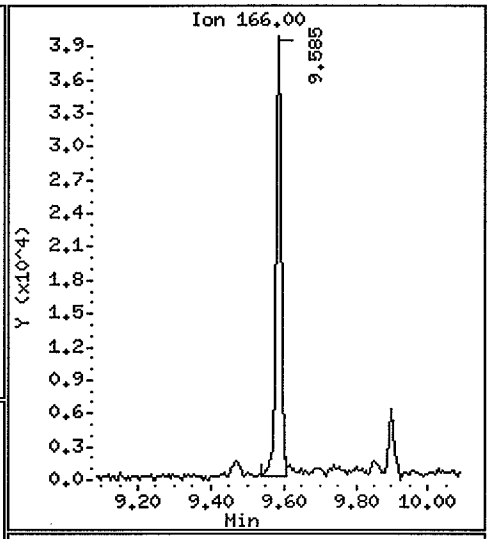
Concentration: 26.97 ug/kg

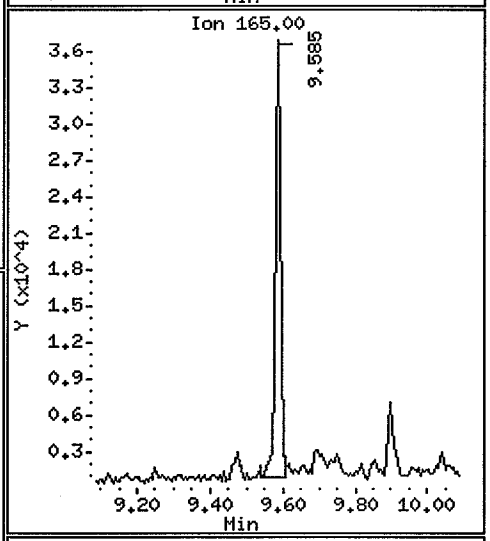


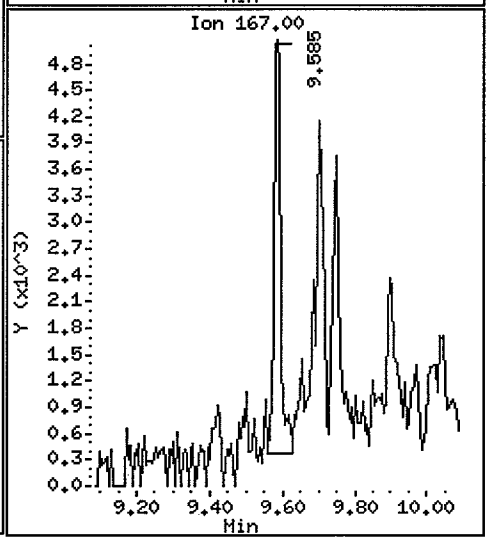












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

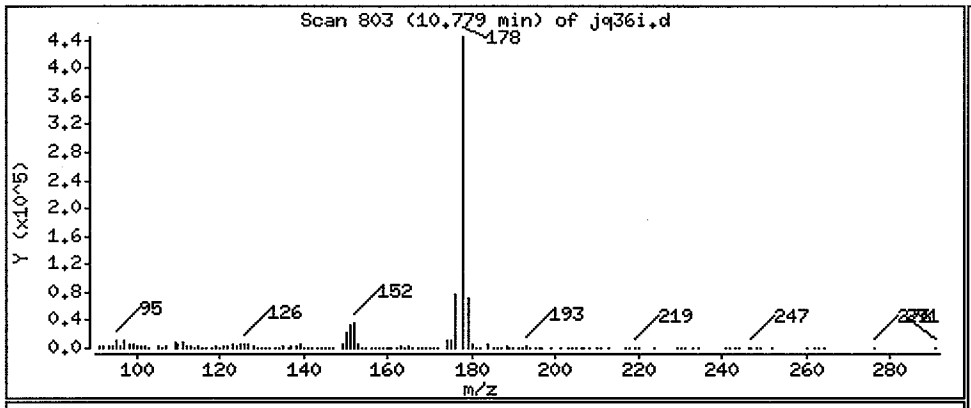
Client ID: T4-WB-01 Instrument: nt1.i

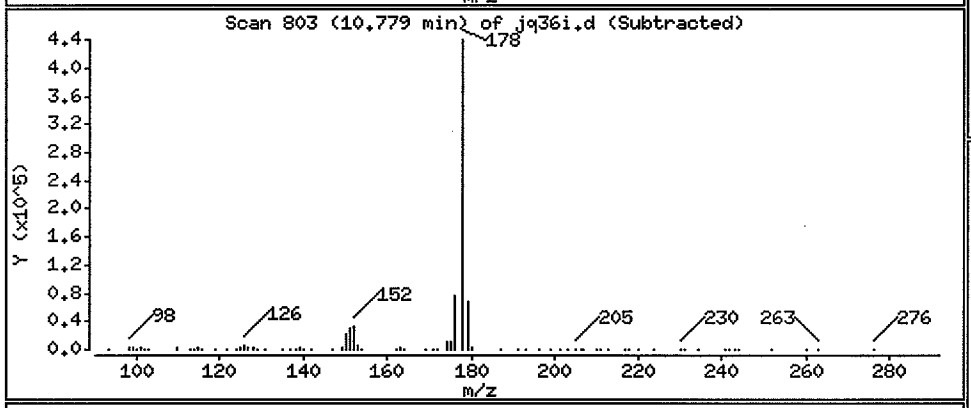
Sample Info: JQ36I

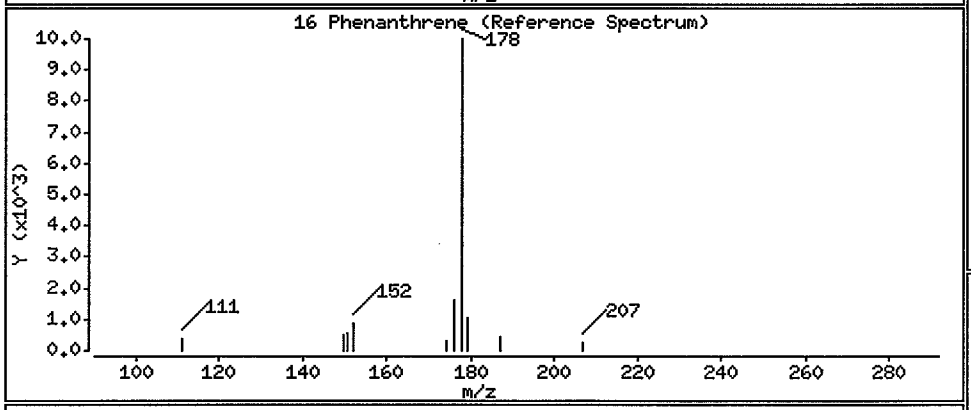
Volume Injected (uL): 1.0 Operator: VTS

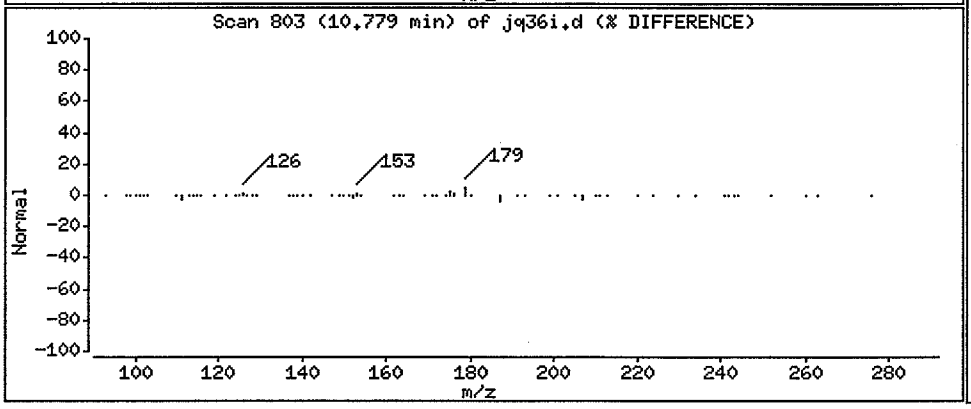
Column phase: ZB-5 Column diameter: 0.25

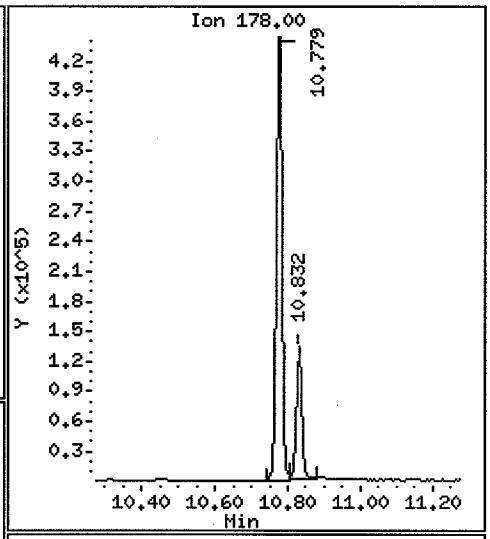
16 Phenanthrene Concentration: 235.5 ug/kg

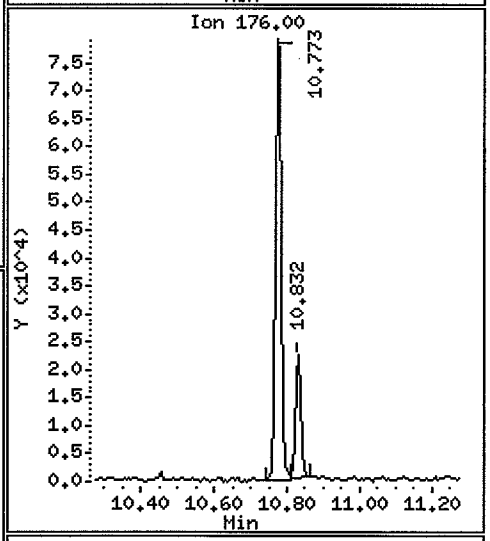


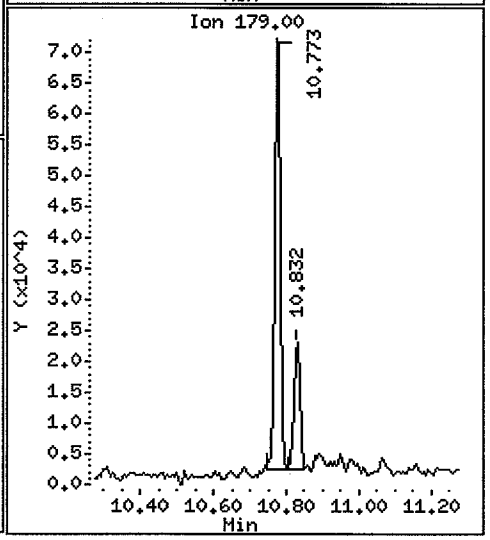












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

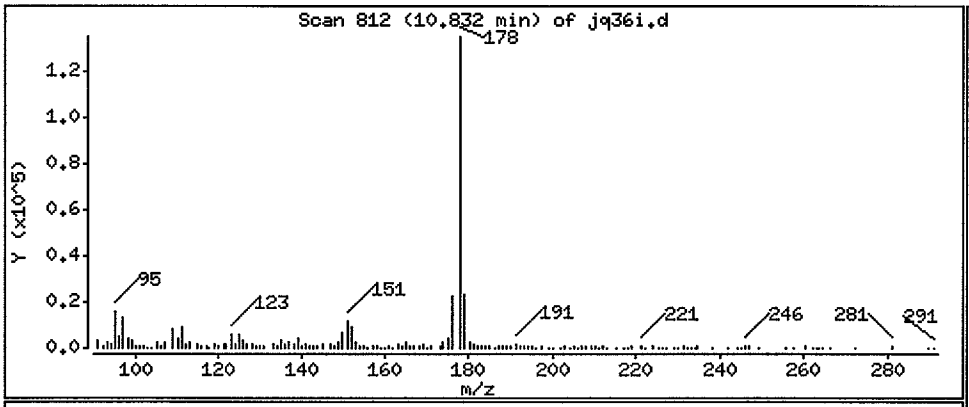
Operator: VTS

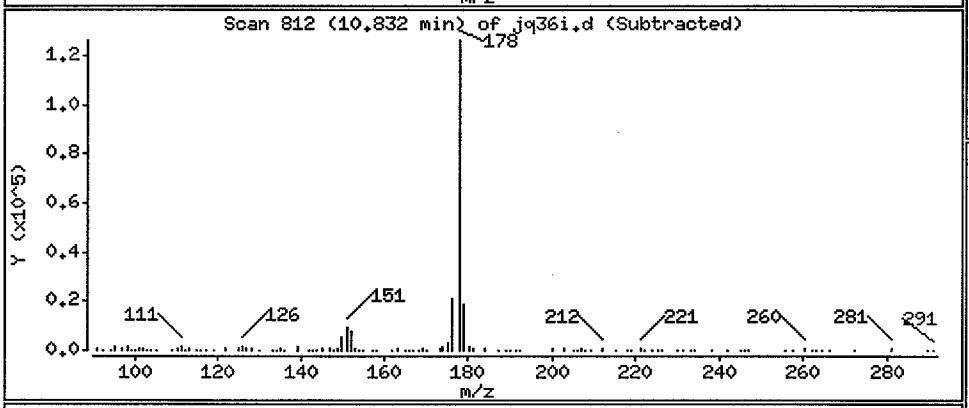
Column phase: ZB-5

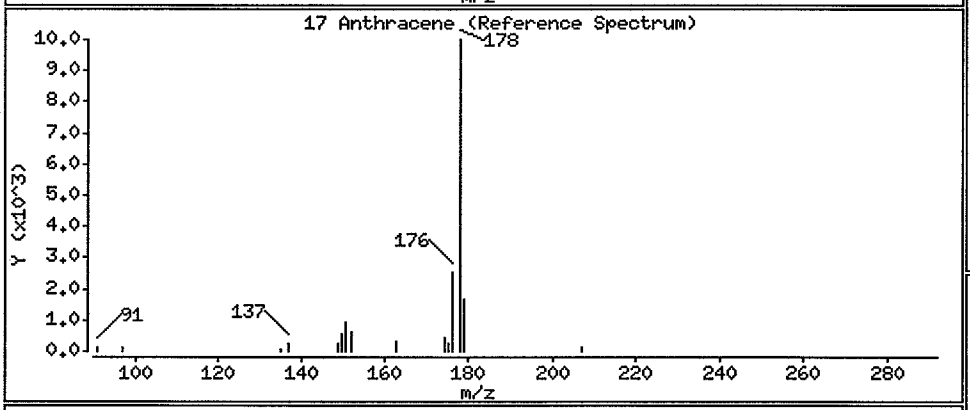
Column diameter: 0.25

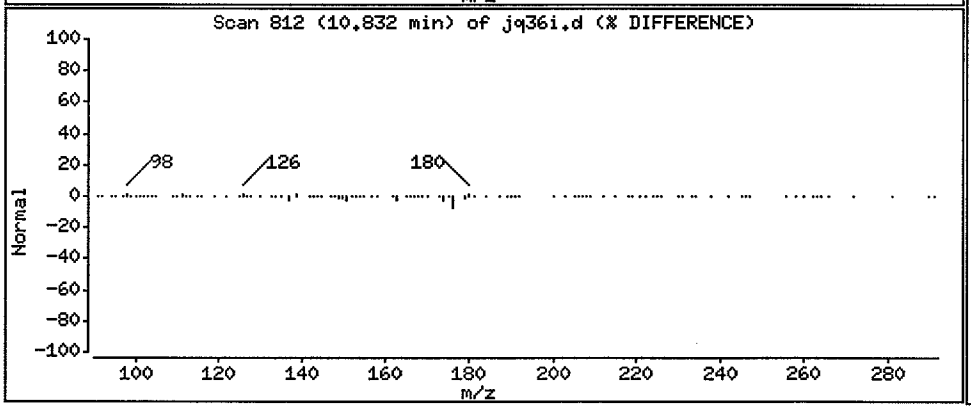
17 Anthracene

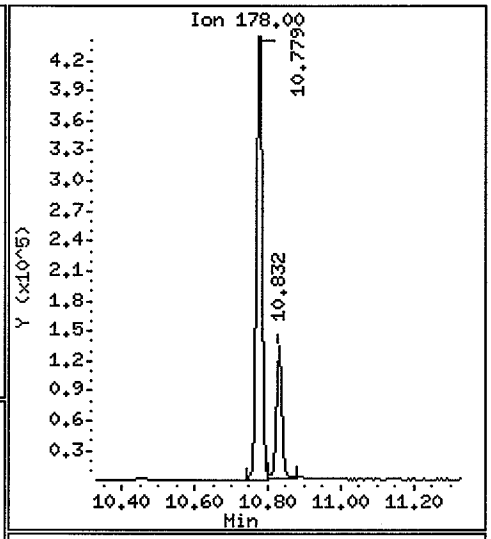
Concentration: 67.91 ug/kg

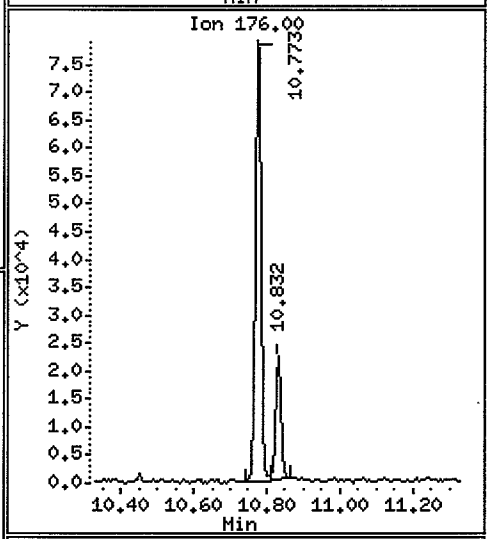


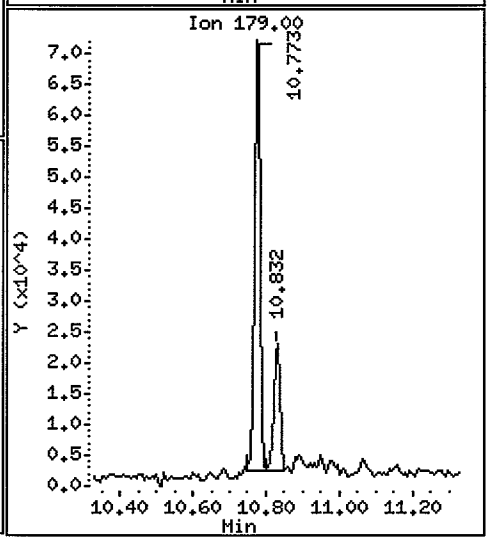












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

Operator: VTS

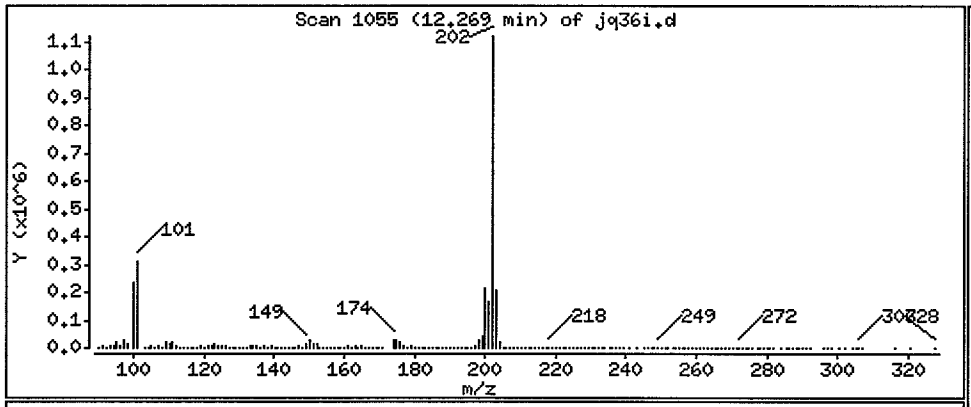
Column phase: ZB-5

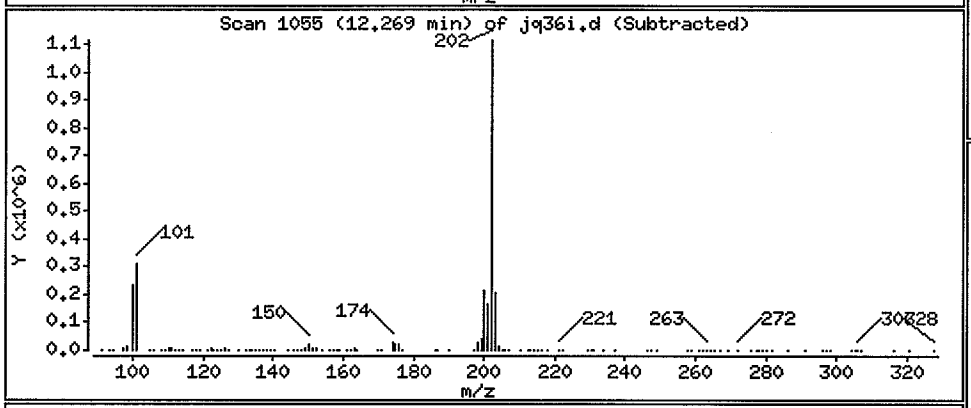
Column diameter: 0.25

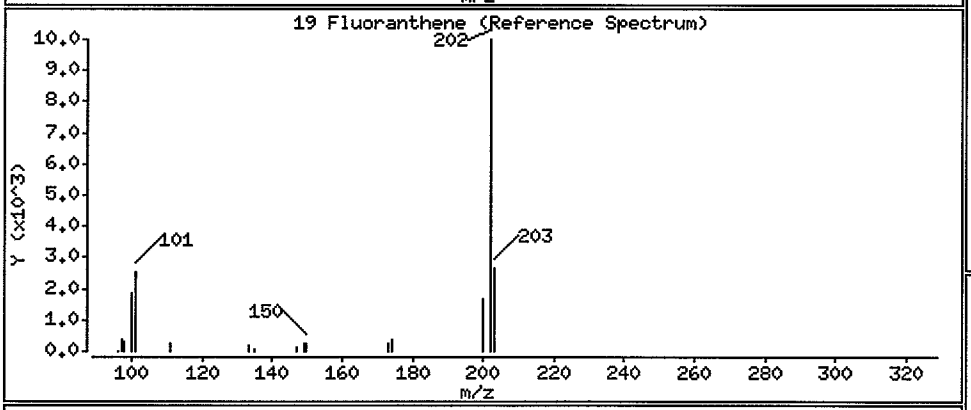
19 Fluoranthene

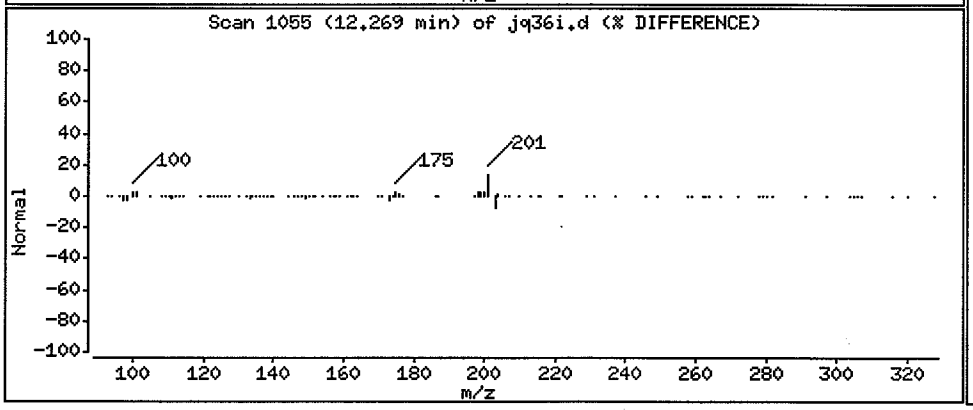
Concentration: 569.5 ug/kg

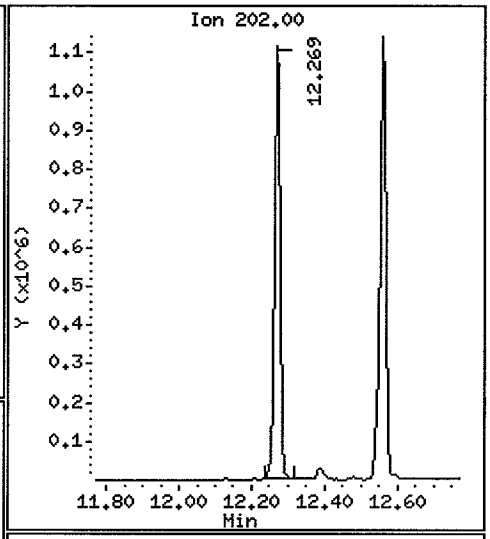
F

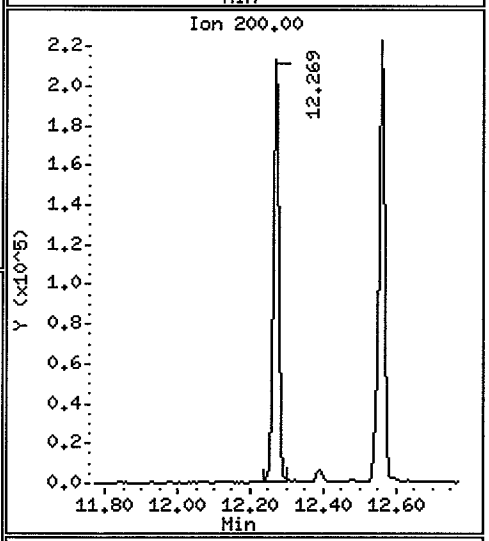


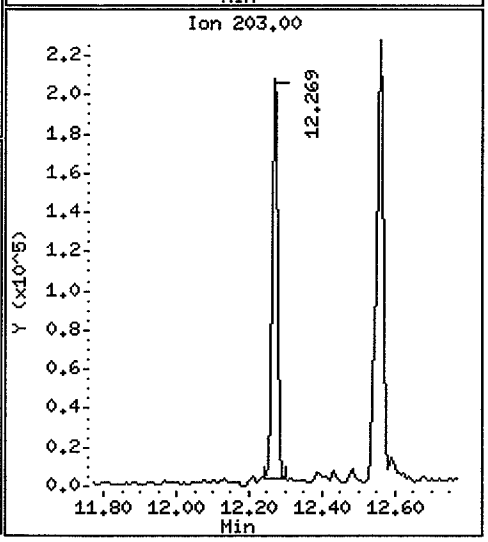












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

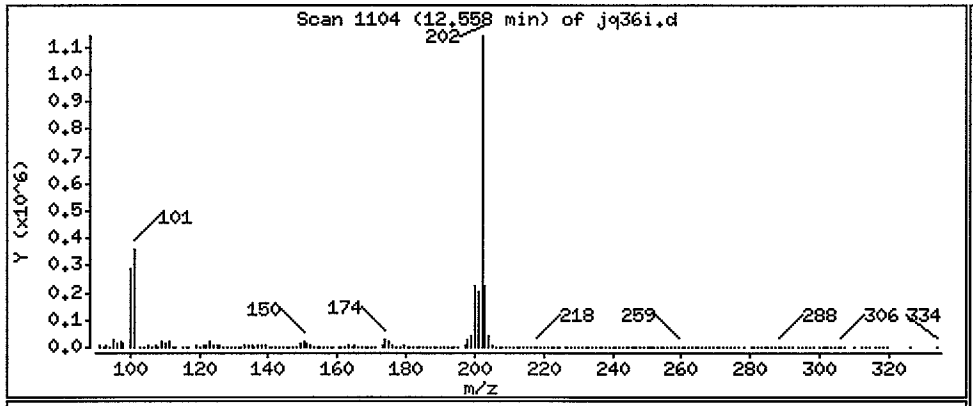
Operator: VTS

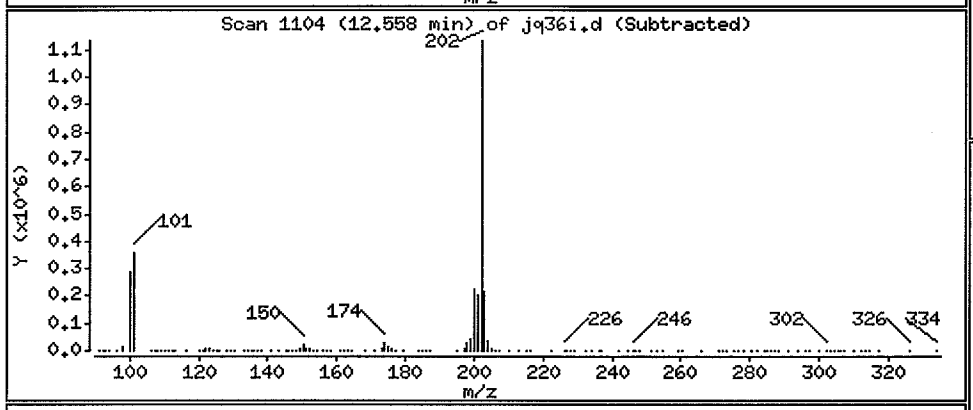
Column phase: ZB-5

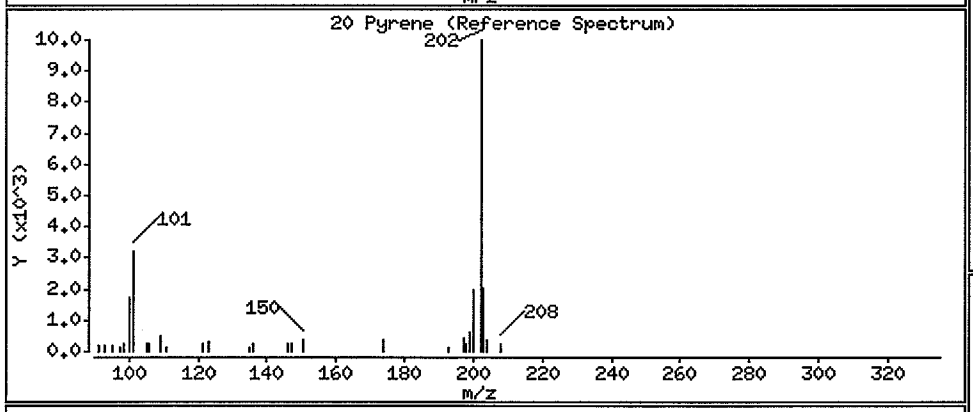
Column diameter: 0.25

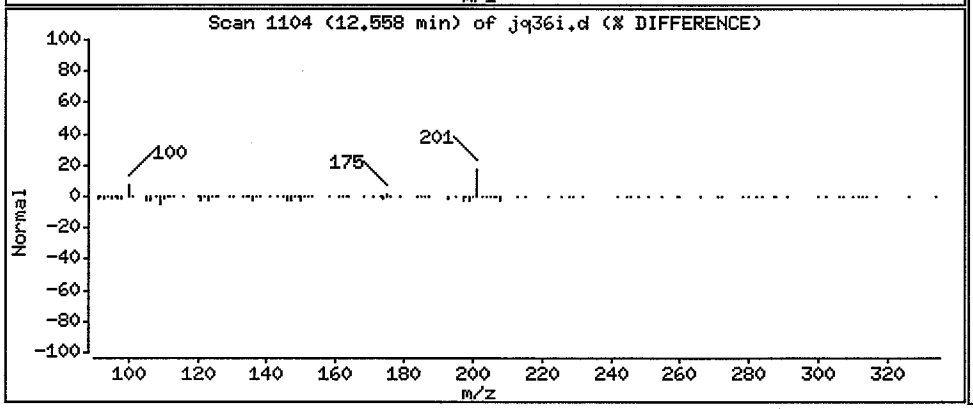
20 Pyrene

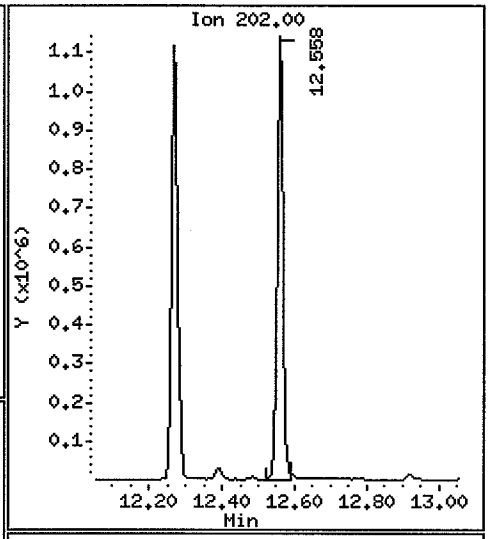
Concentration: 500.7 ug/kg

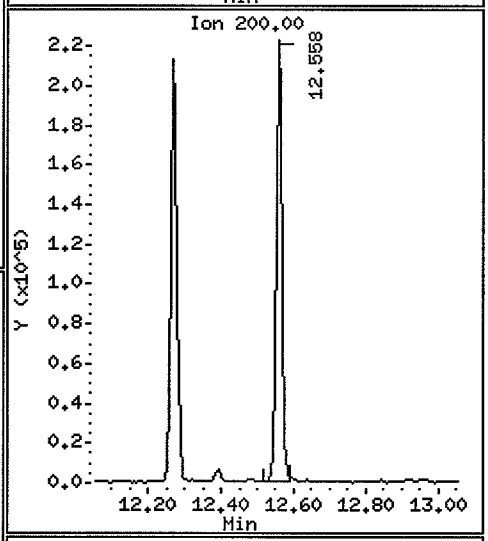


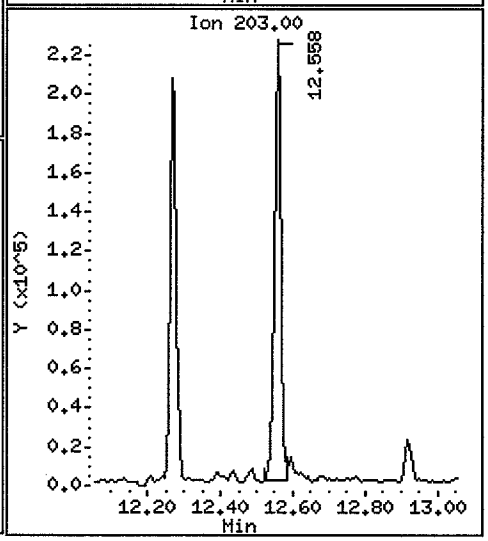












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

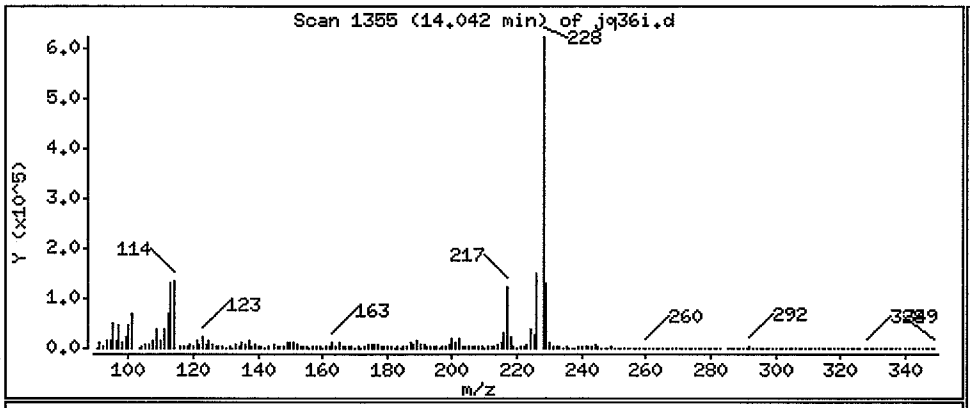
Client ID: T4-WB-01 Instrument: nt1.i

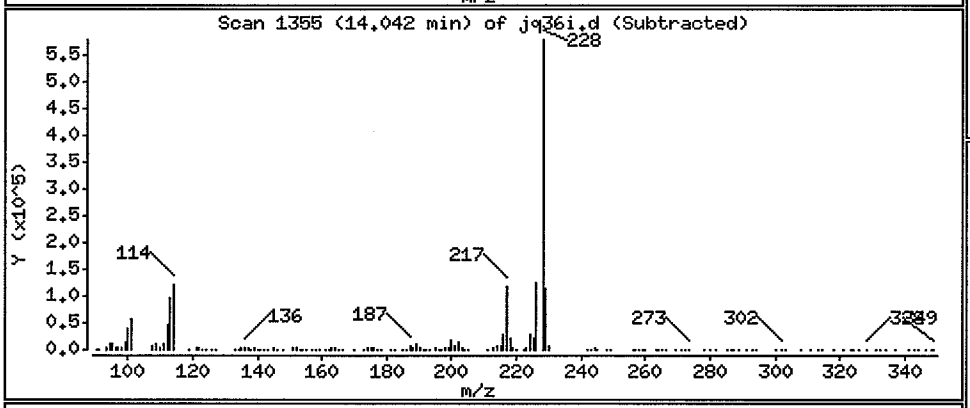
Sample Info: JQ36I

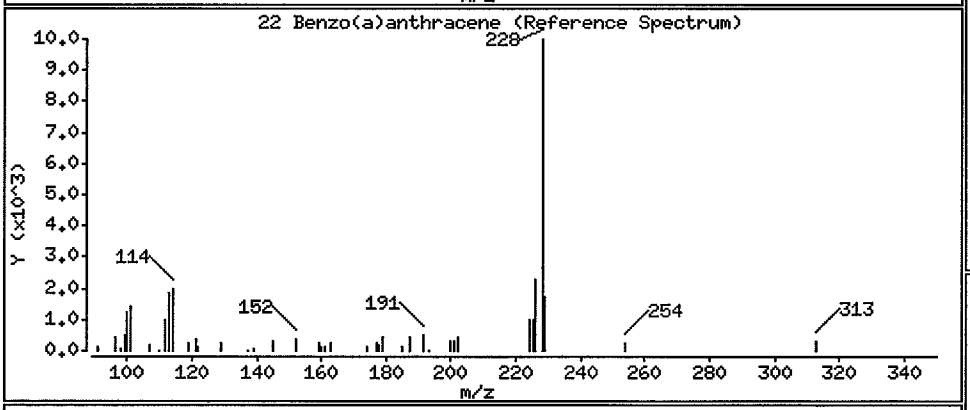
Volume Injected (uL): 1.0 Operator: VTS

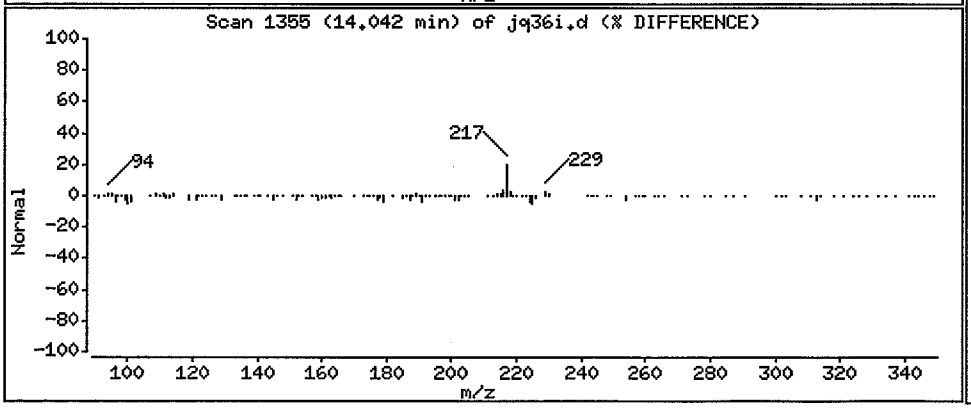
Column phase: ZB-5 Column diameter: 0.25

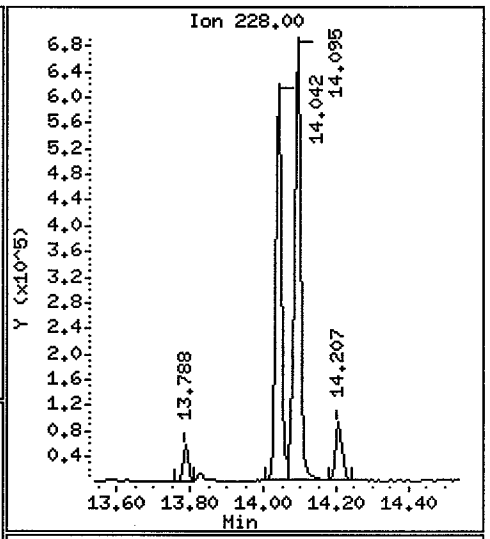
22 Benzo(a)anthracene Concentration: 285.0 ug/kg

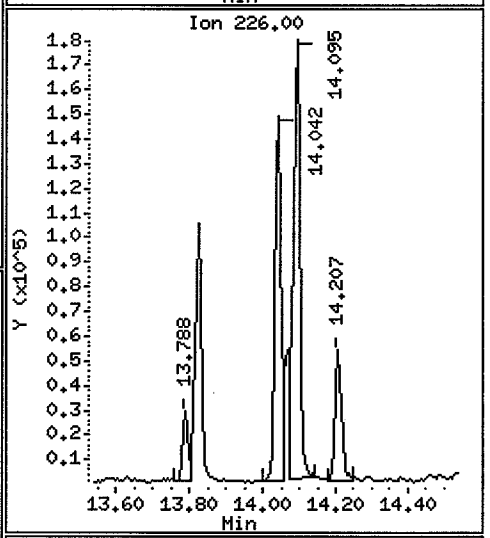


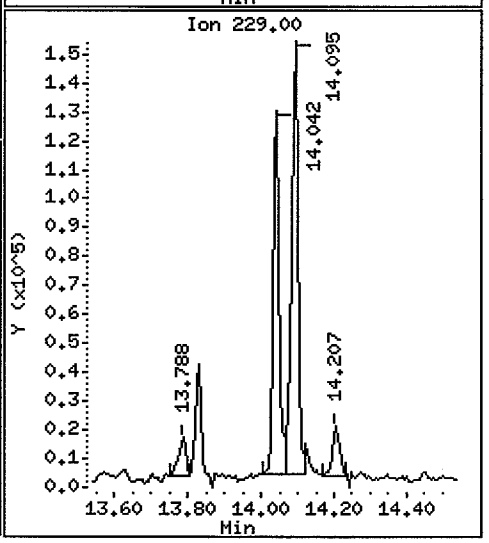












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

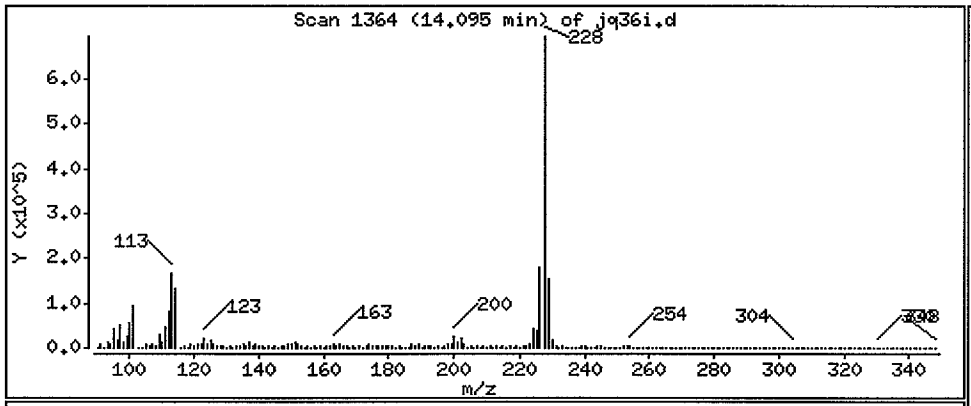
Operator: VTS

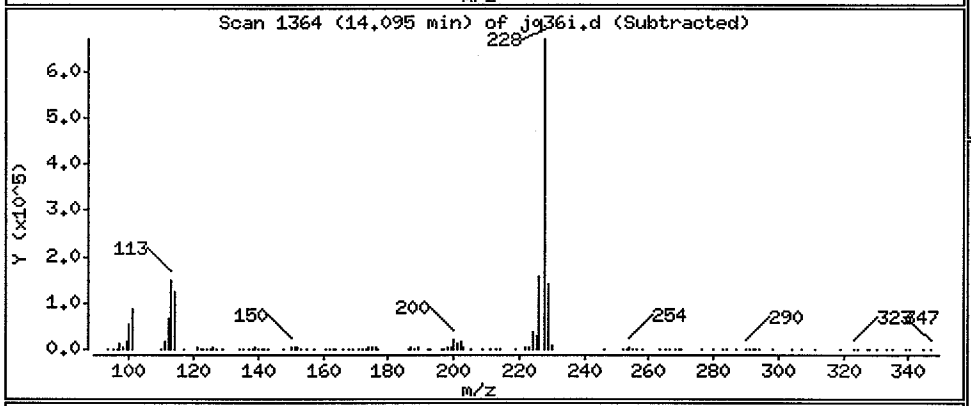
Column phase: ZB-5

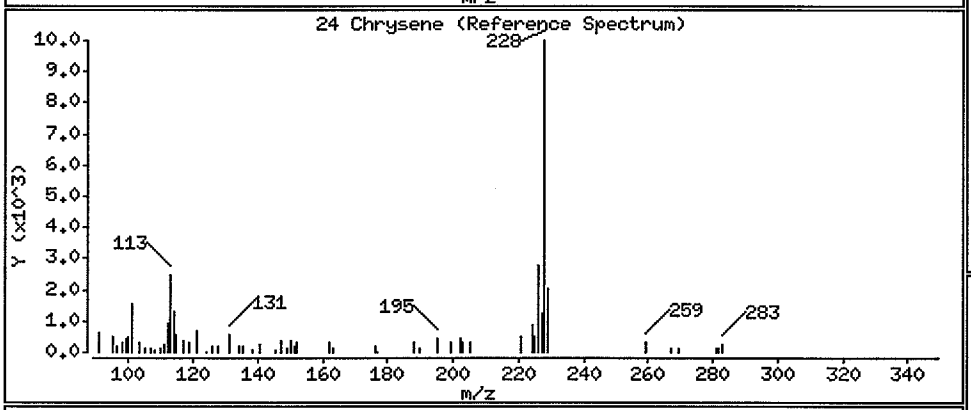
Column diameter: 0.25

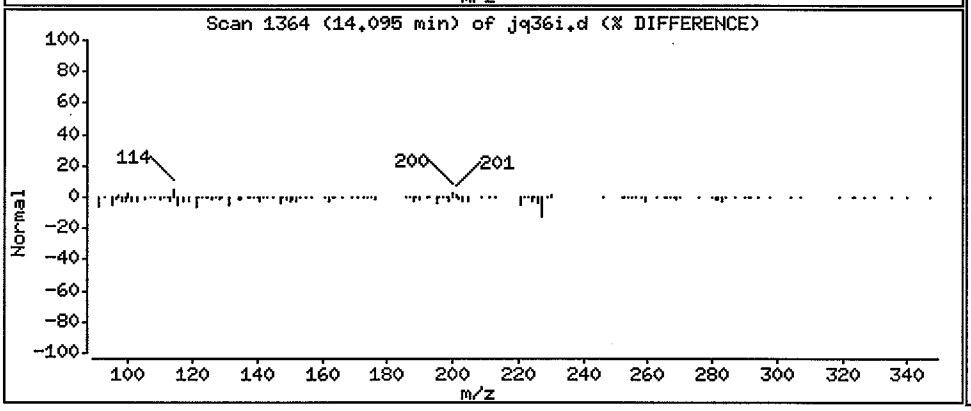
24 Chrysene

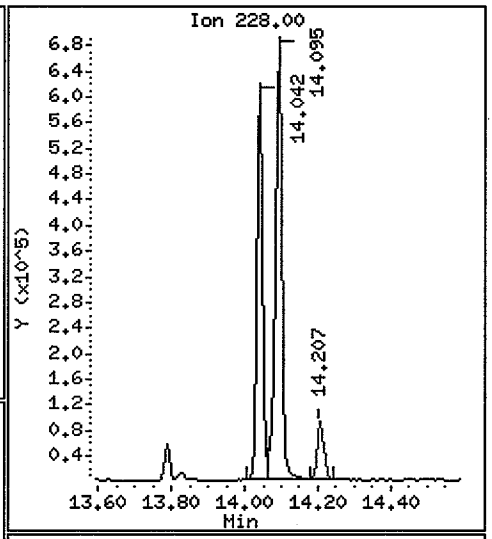
Concentration: 389.8 ug/kg

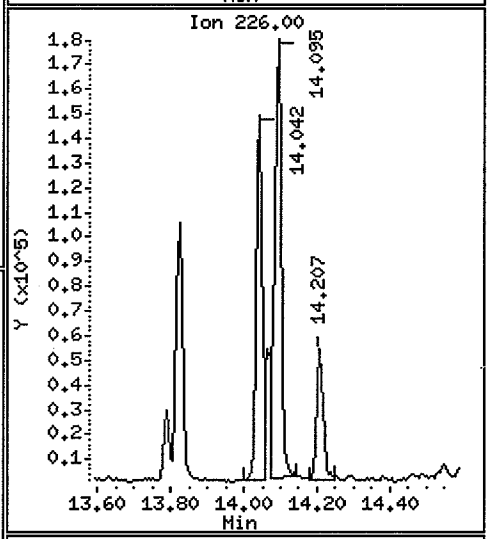


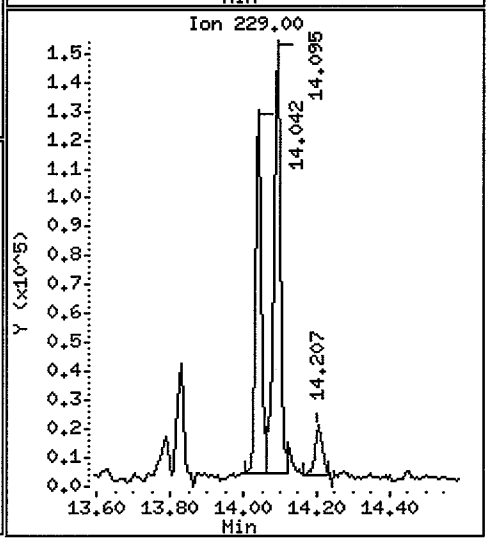












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

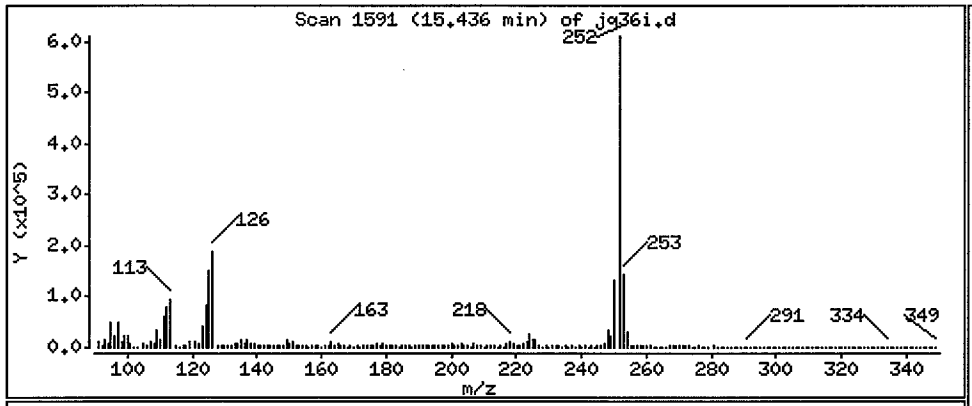
Client ID: T4-WB-01 Instrument: nt1.i

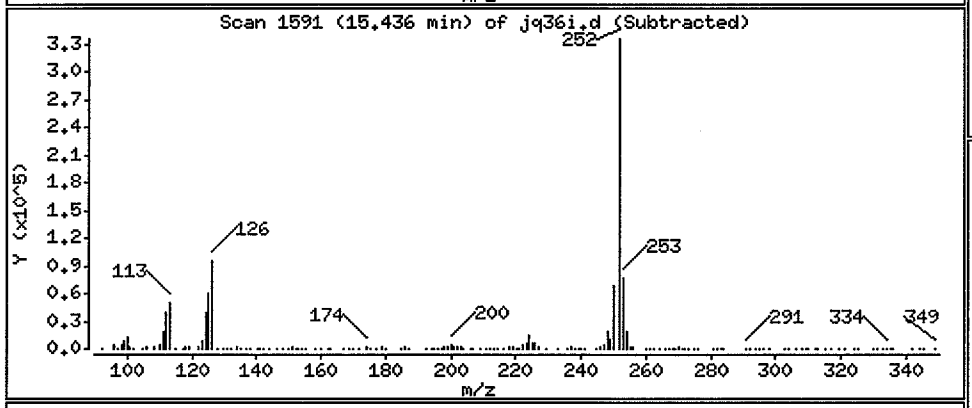
Sample Info: JQ36I

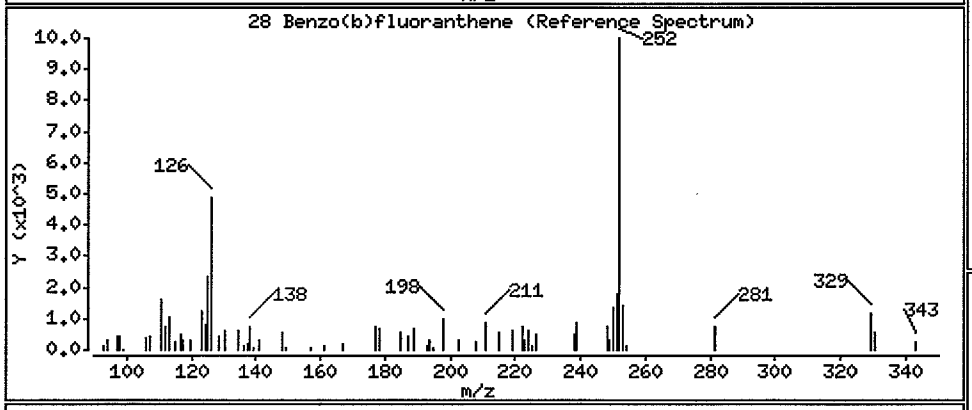
Volume Injected (uL): 1.0 Operator: VTS

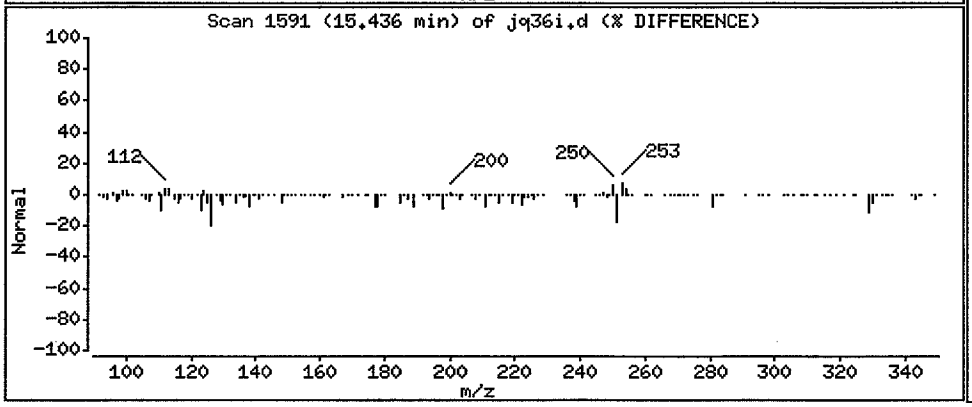
Column phase: ZB-5 Column diameter: 0.25

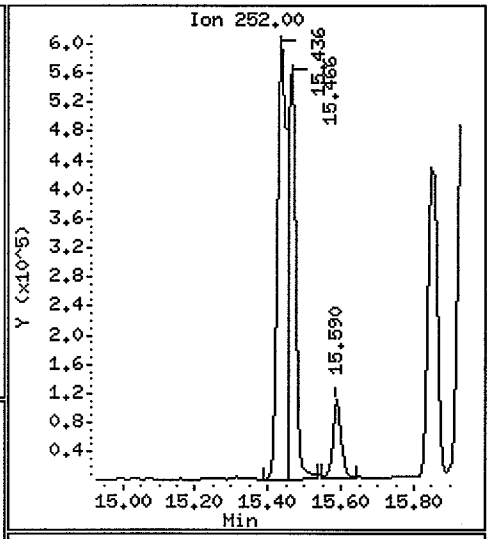
28 Benzo(b)fluoranthene Concentration: 417.4 ug/kg

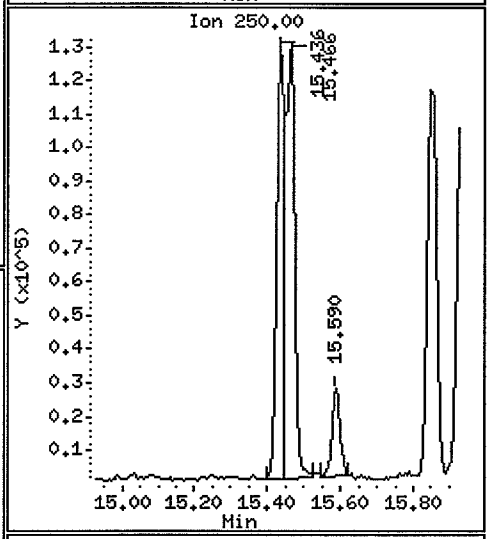


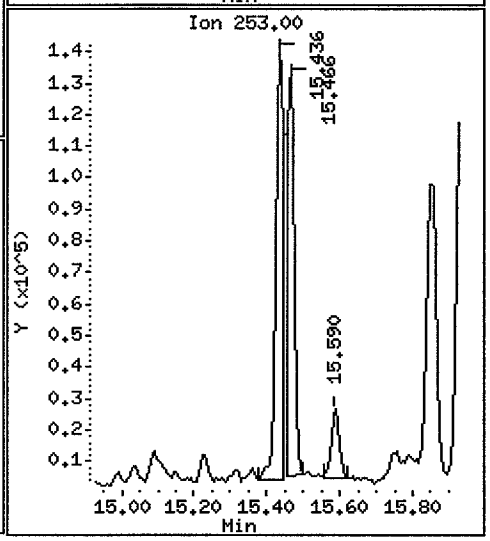












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

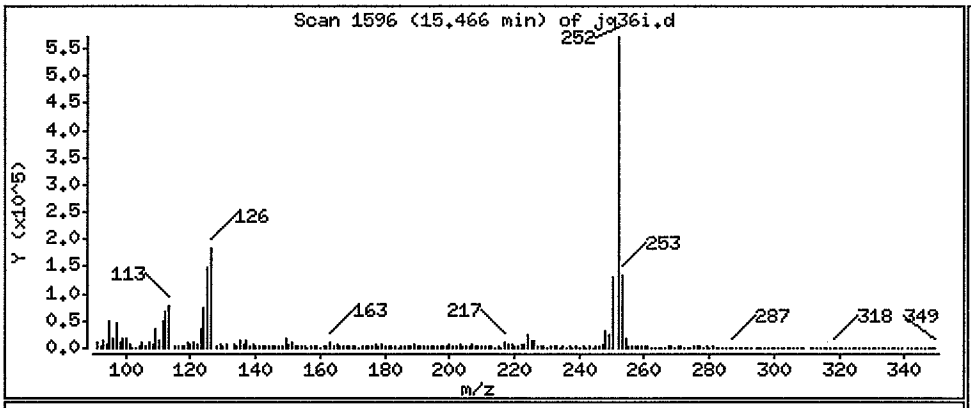
Operator: VTS

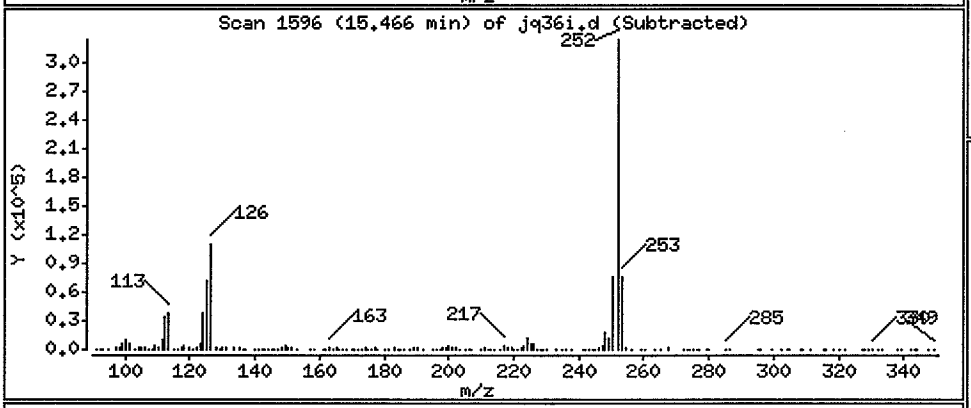
Column phase: ZB-5

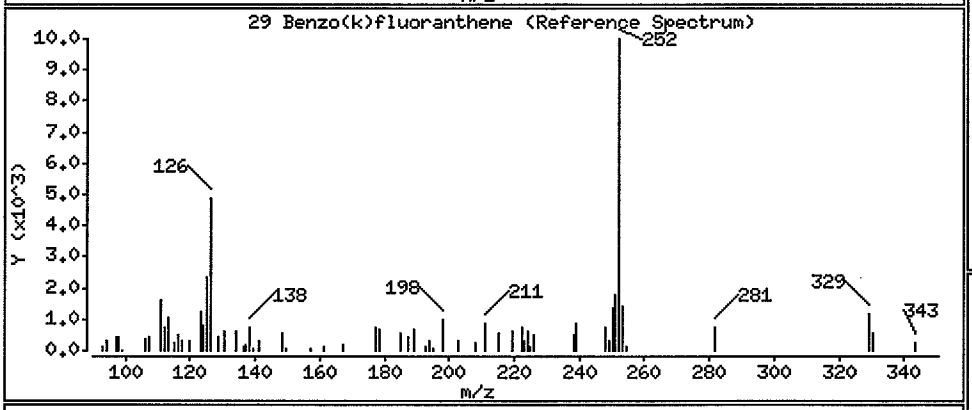
Column diameter: 0.25

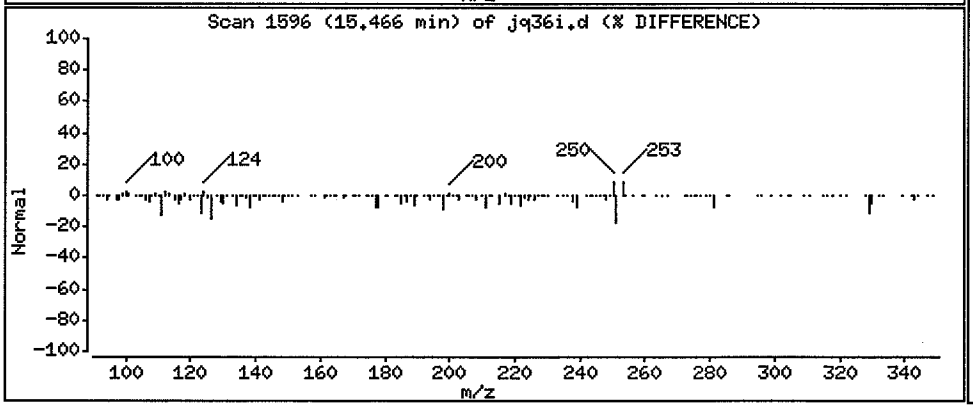
29 Benzo(k)fluoranthene

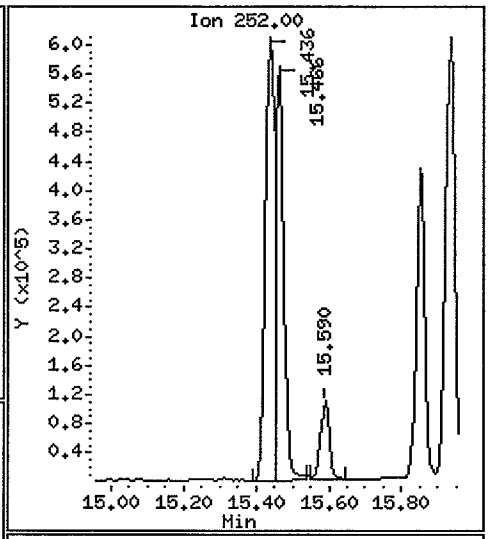
Concentration: 317.4 ug/kg

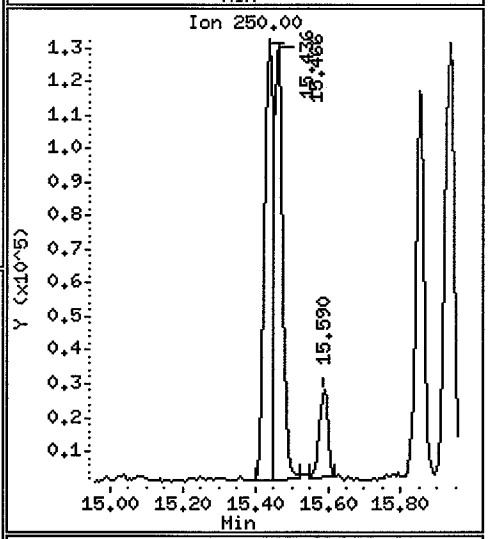


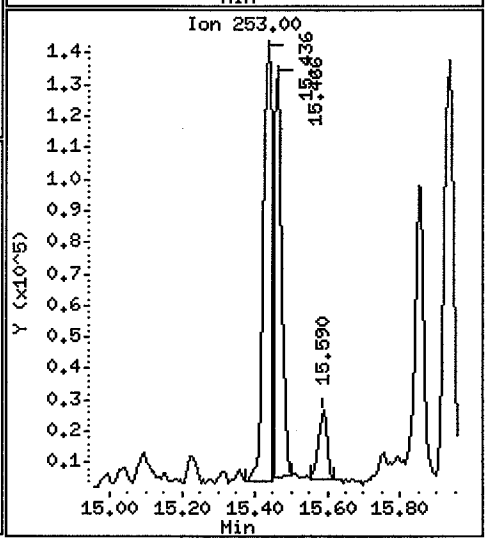












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

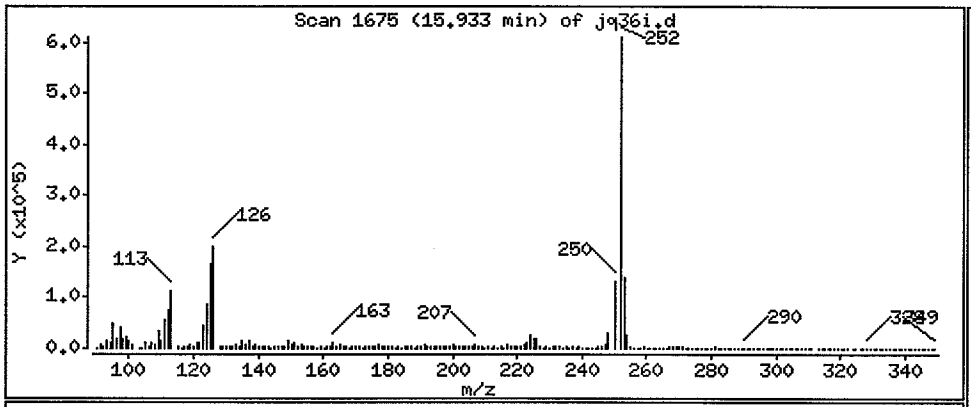
Client ID: T4-WB-01 Instrument: nt1.i

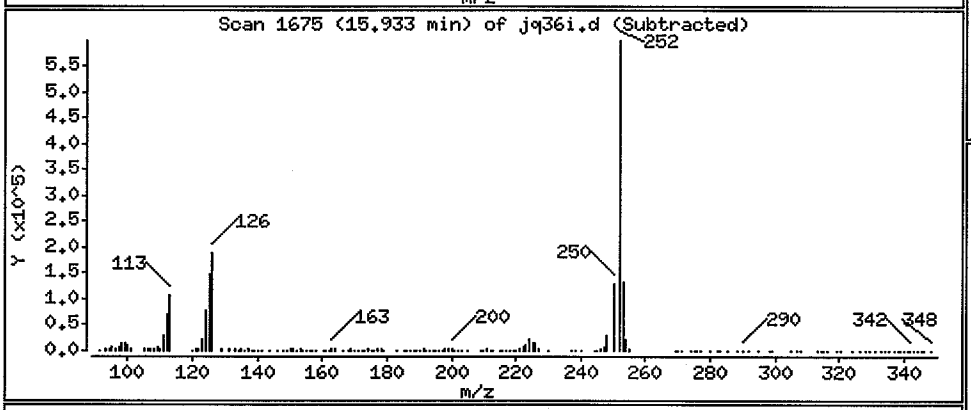
Sample Info: JQ36I

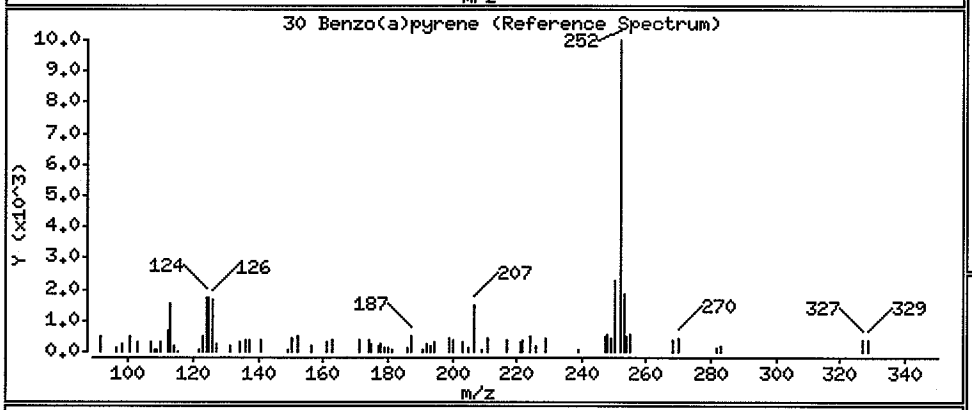
Volume Injected (uL): 1.0 Operator: VTS

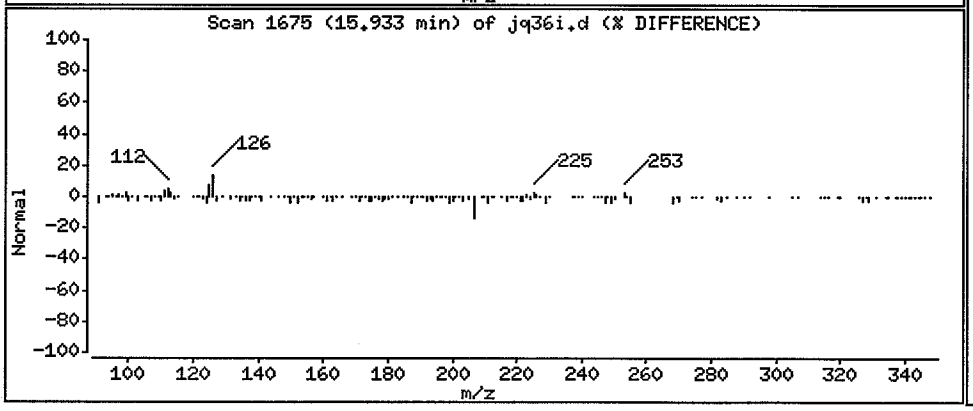
Column phase: ZB-5 Column diameter: 0.25

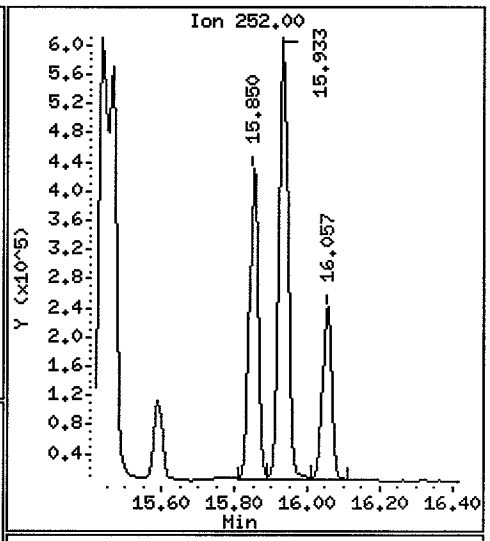
30 Benzo(a)pyrene Concentration: 395.2 ug/kg

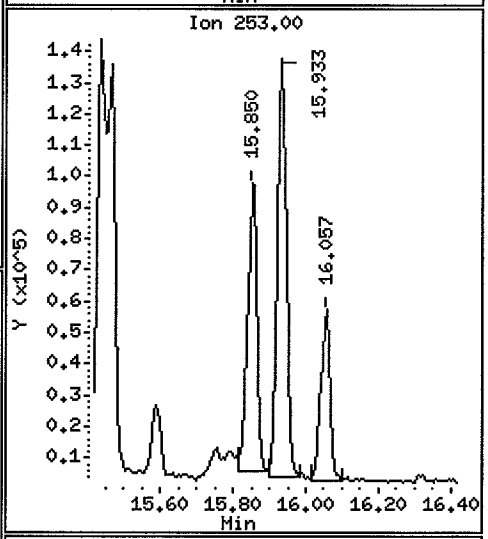


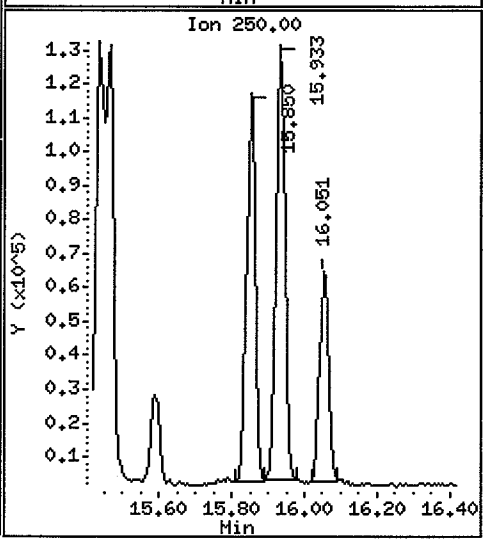












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

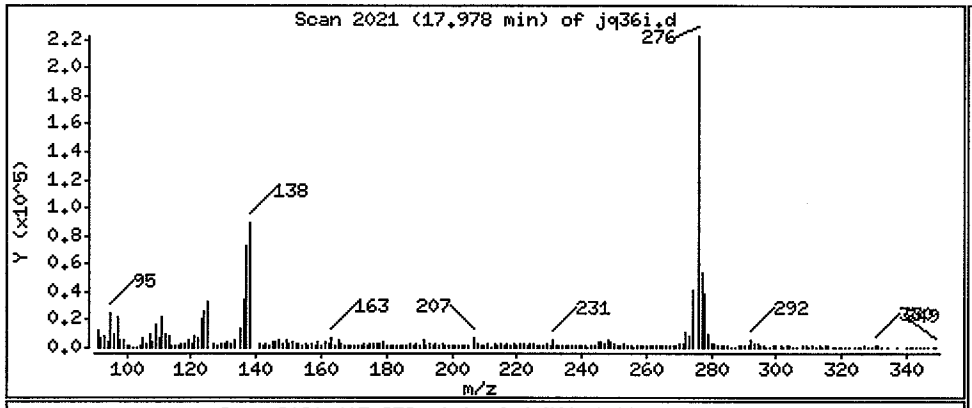
Operator: VTS

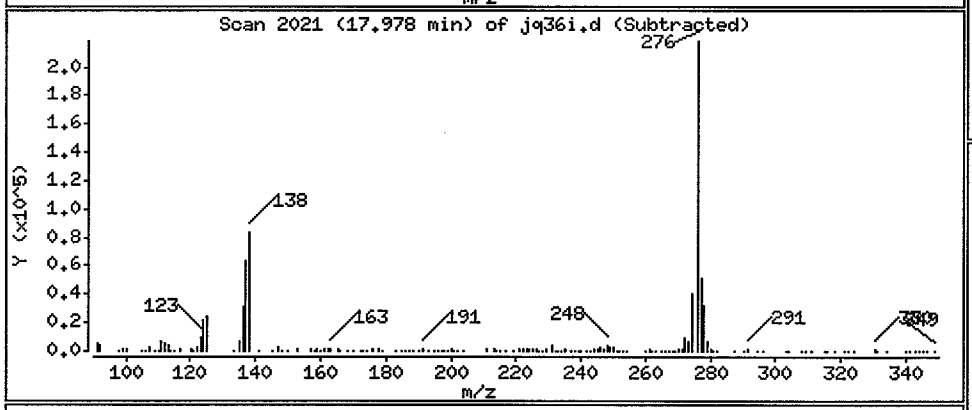
Column phase: ZB-5

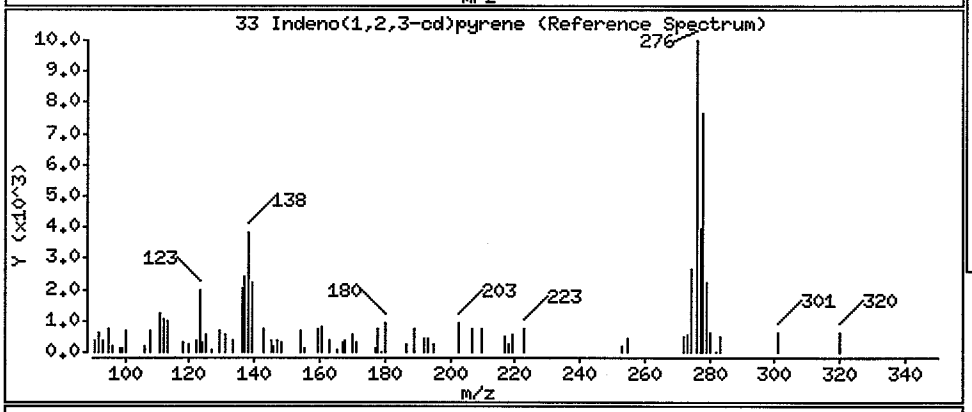
Column diameter: 0.25

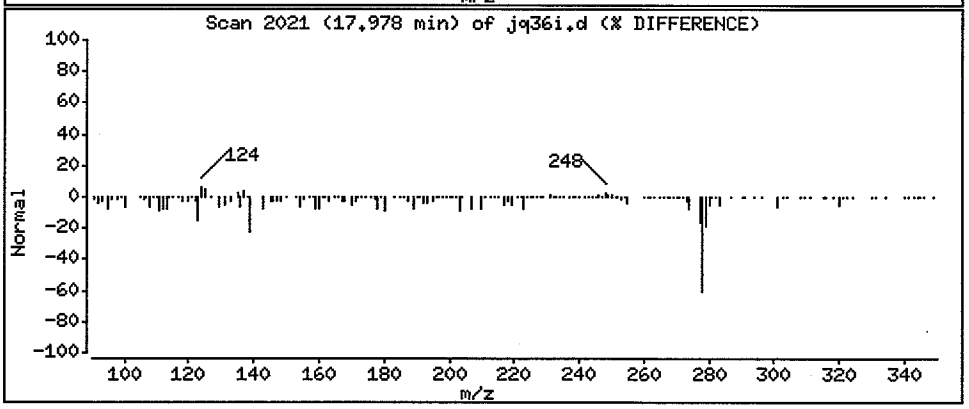
33 Indeno(1,2,3-cd)pyrene

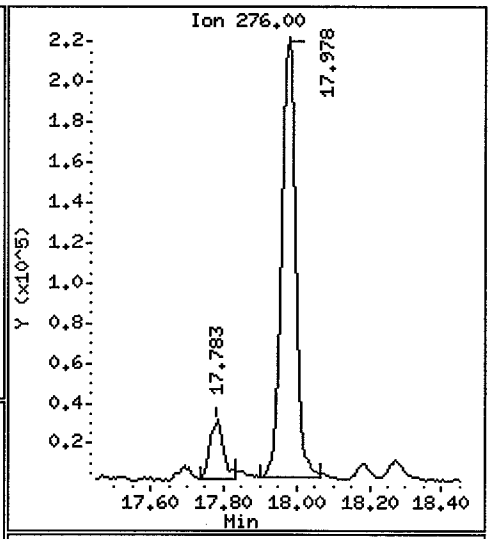
Concentration: 196.6 ug/kg

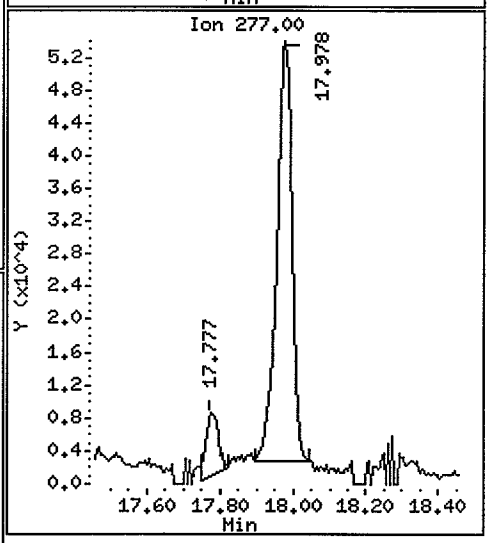












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

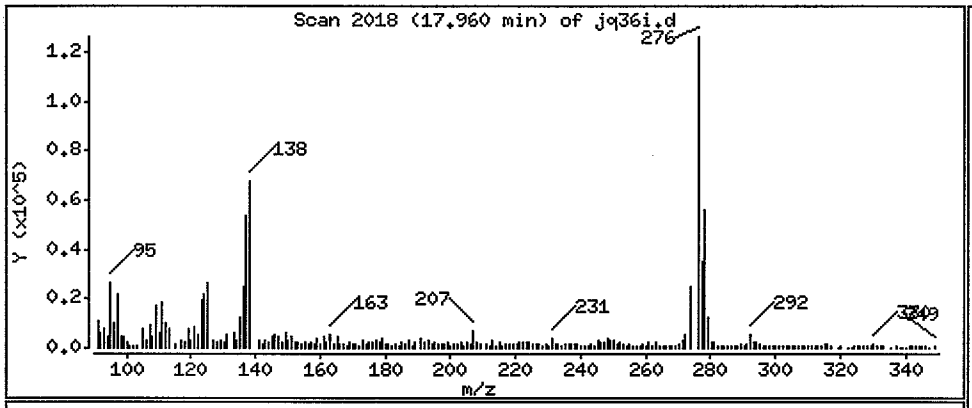
Operator: VTS

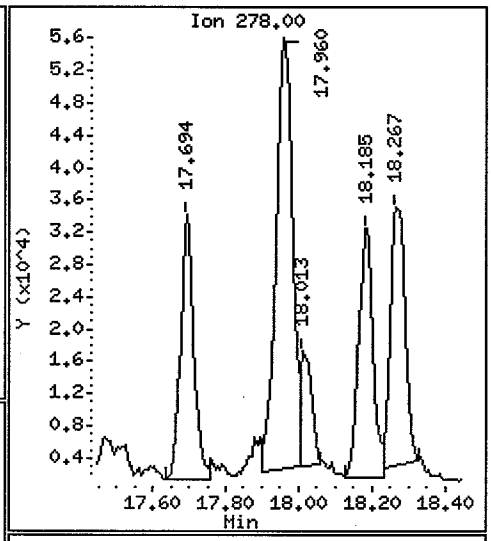
Column phase: ZB-5

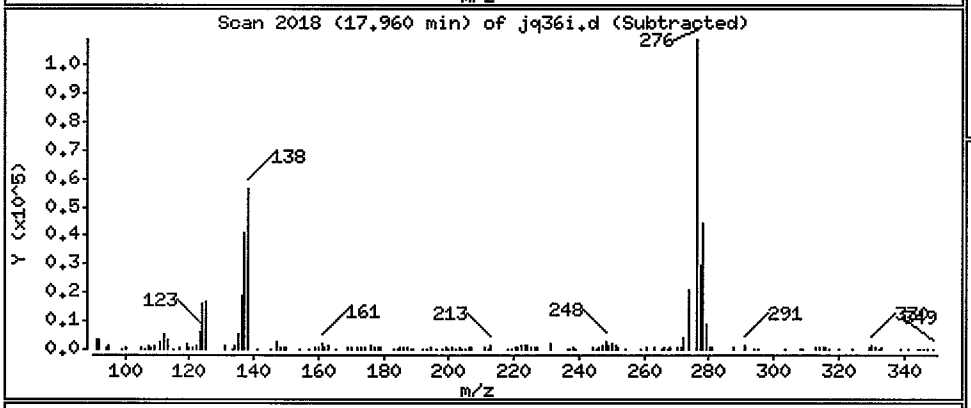
Column diameter: 0.25

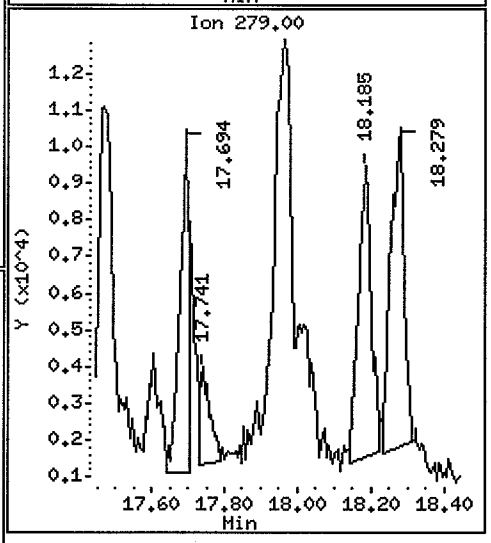
34 Dibenz(a,h)anthracene

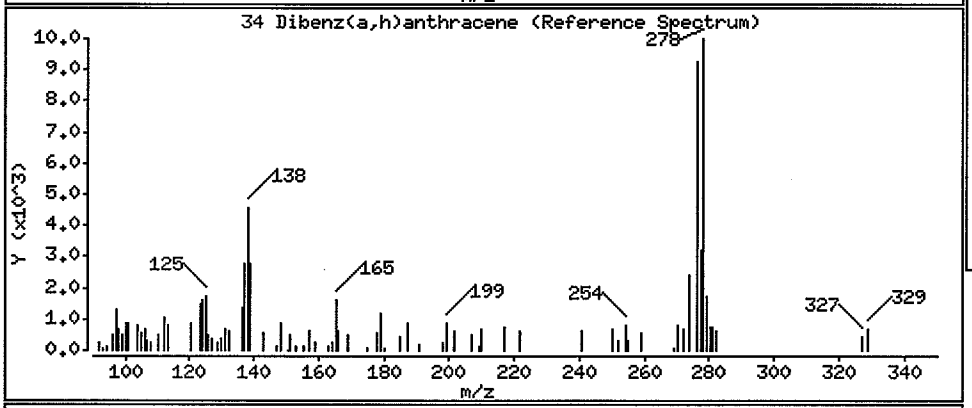
Concentration: 70.74 ug/kg

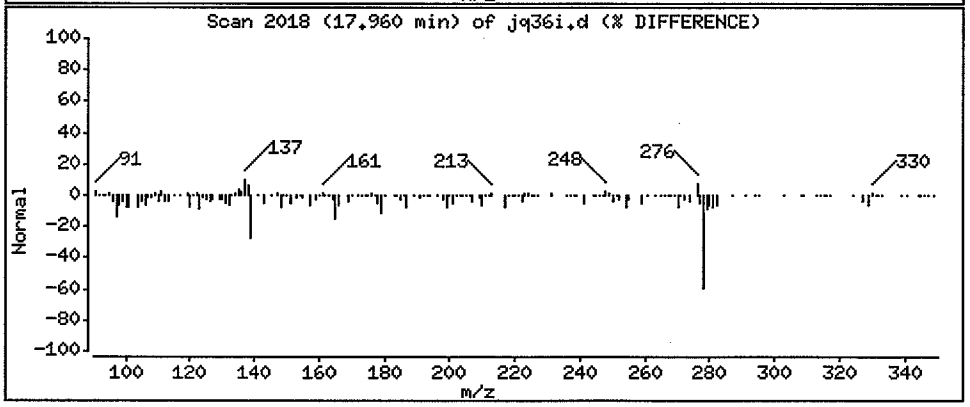












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

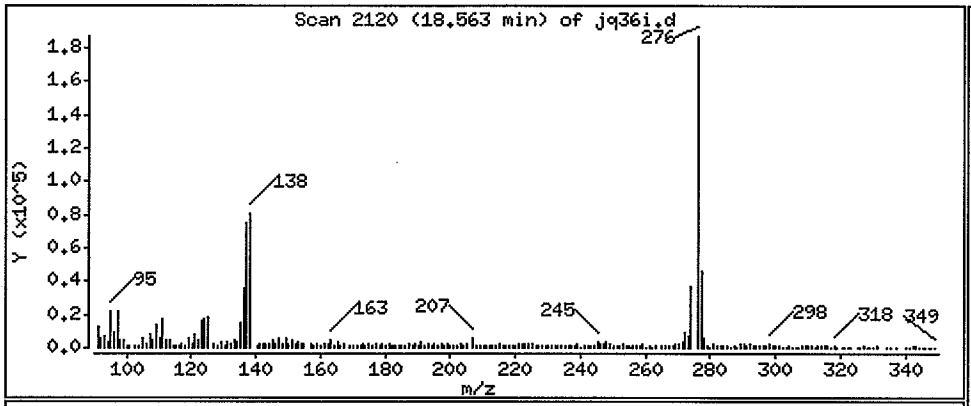
Client ID: T4-WB-01 Instrument: nt1.i

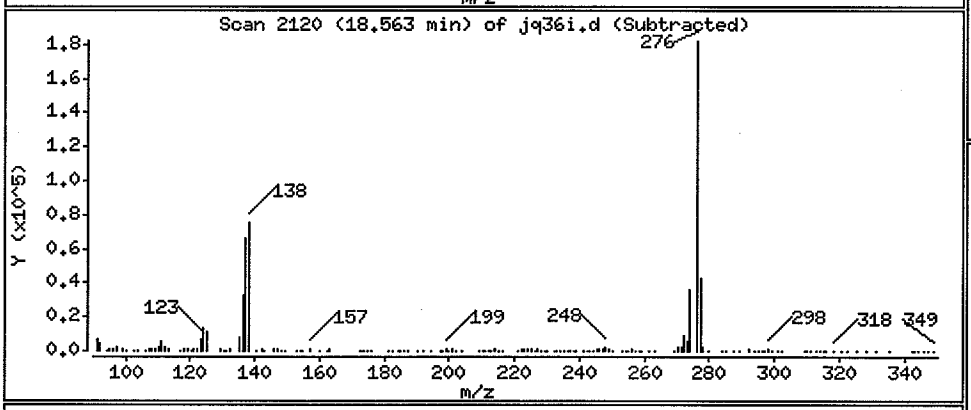
Sample Info: JQ36I

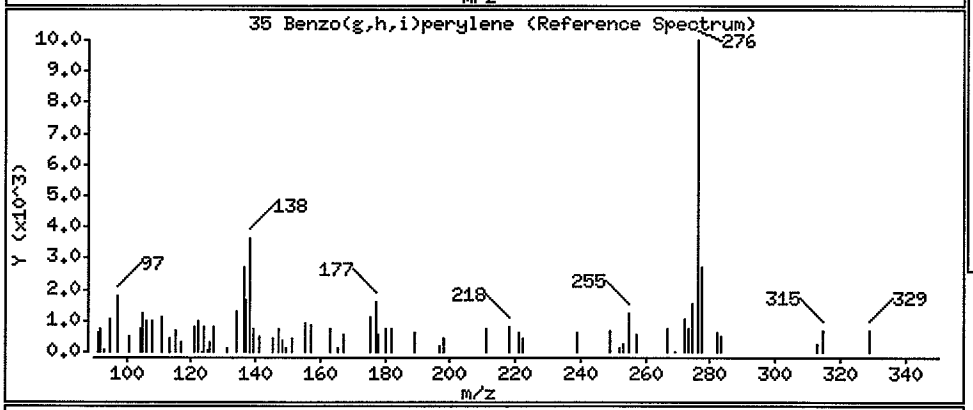
Volume Injected (uL): 1.0 Operator: VTS

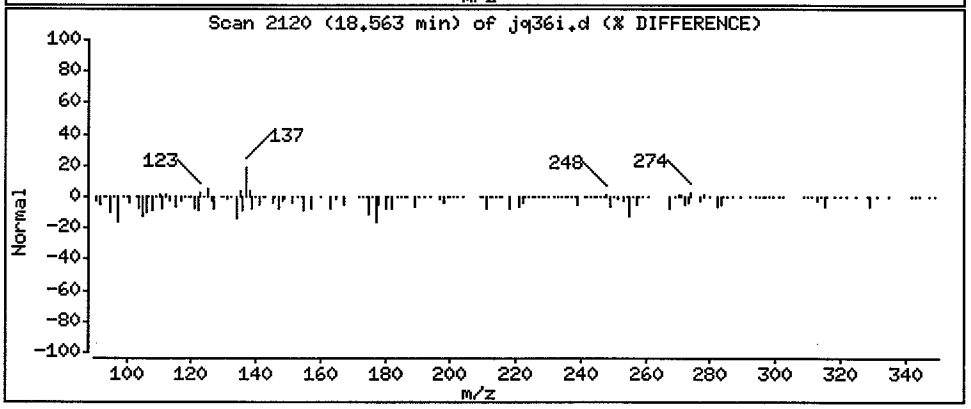
Column phase: ZB-5 Column diameter: 0.25

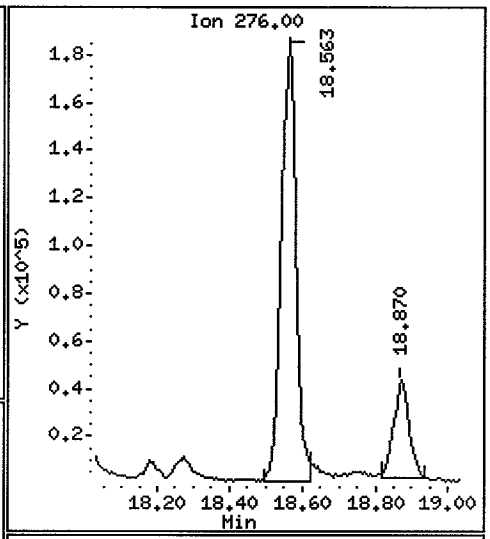
35 Benzo(g,h,i)perylene Concentration: 210.4 ug/kg

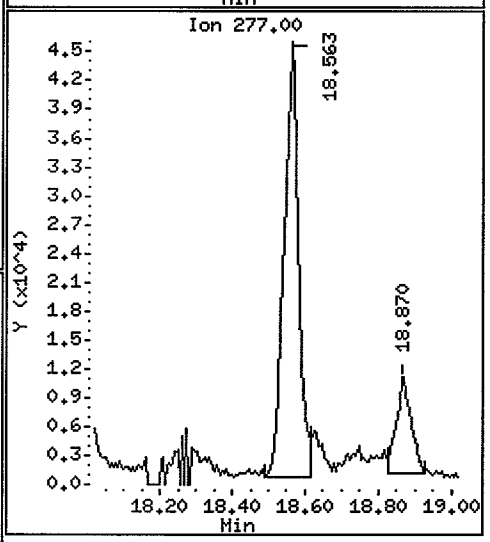












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

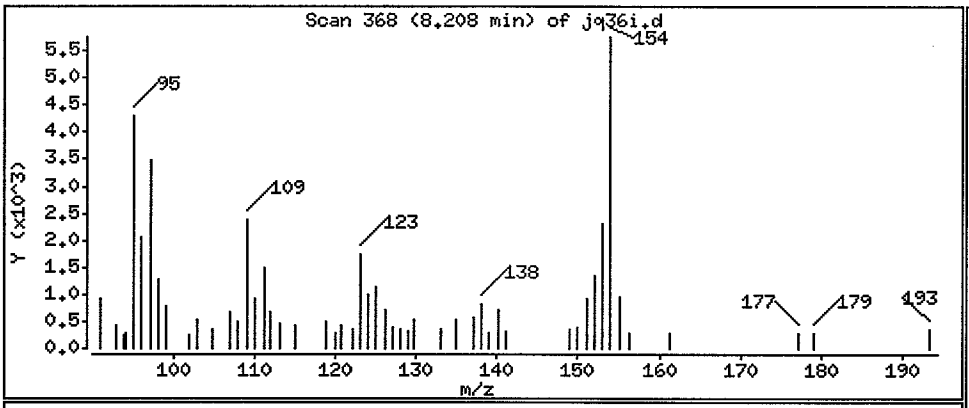
Operator: VTS

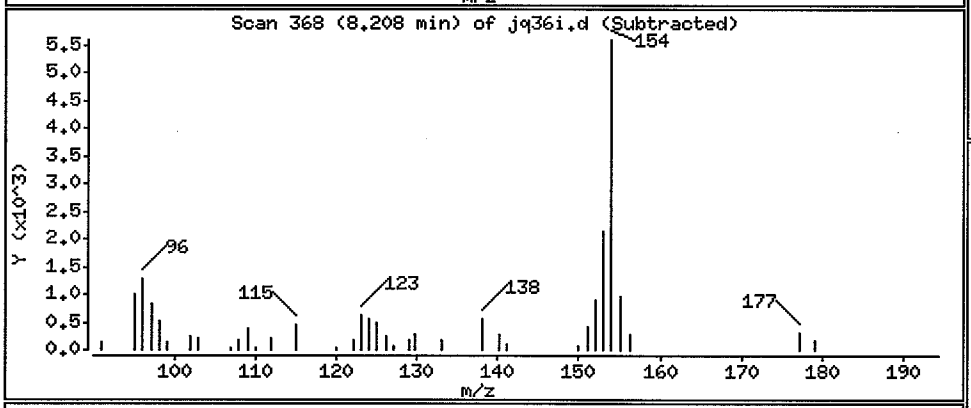
Column phase: ZB-5

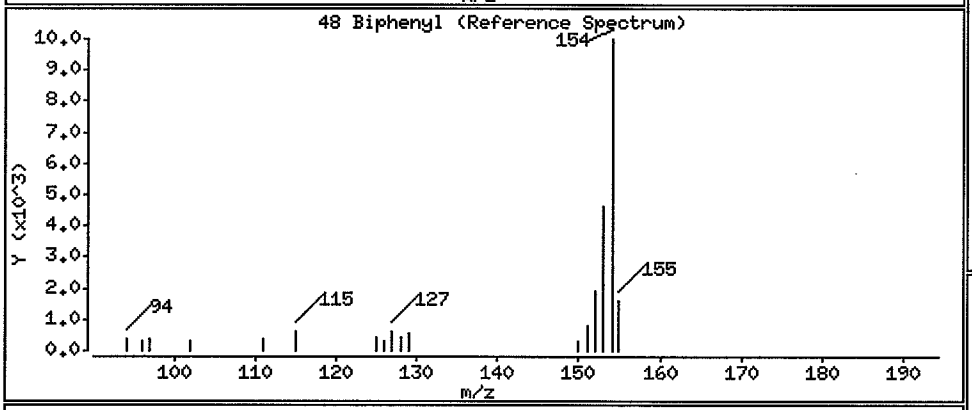
Column diameter: 0.25

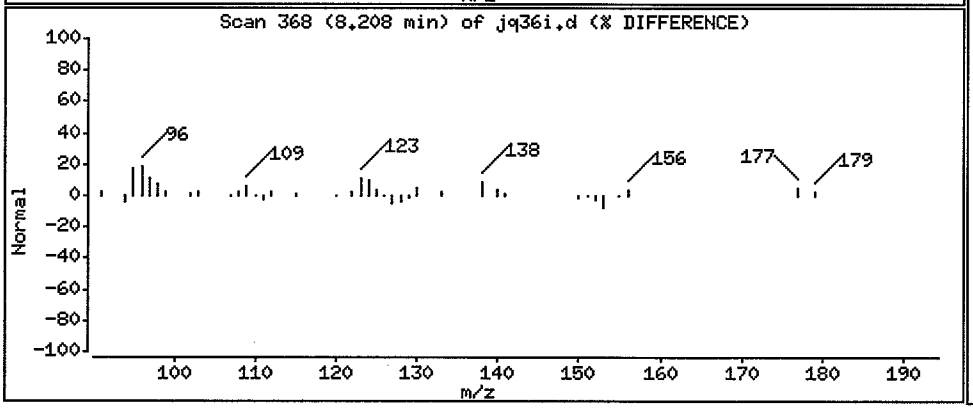
48 Biphenyl

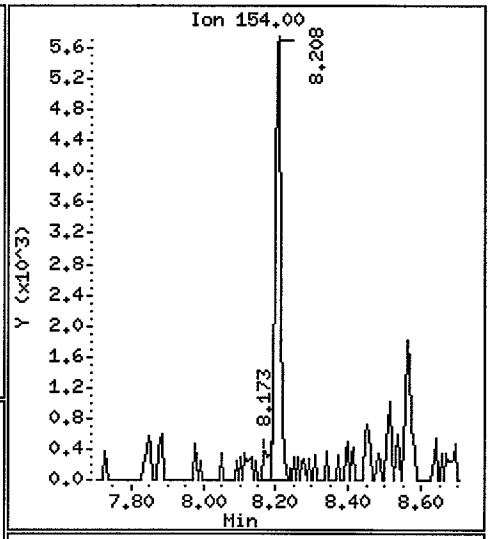
Concentration: 3.812 ug/kg

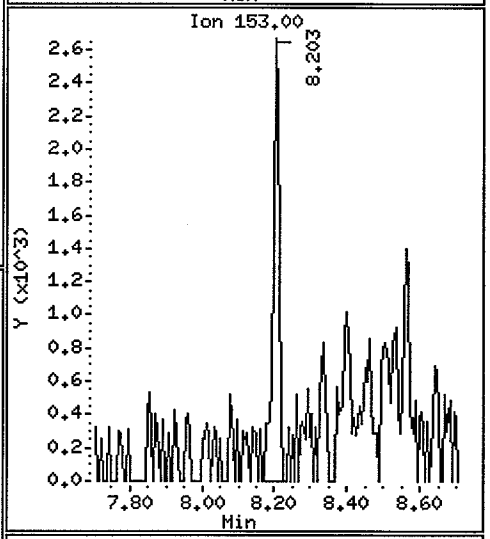


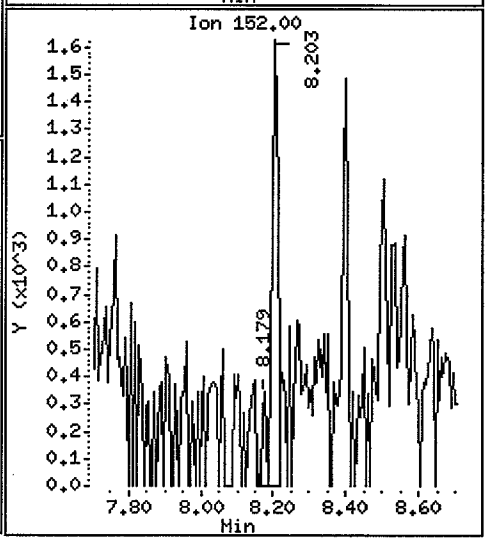












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

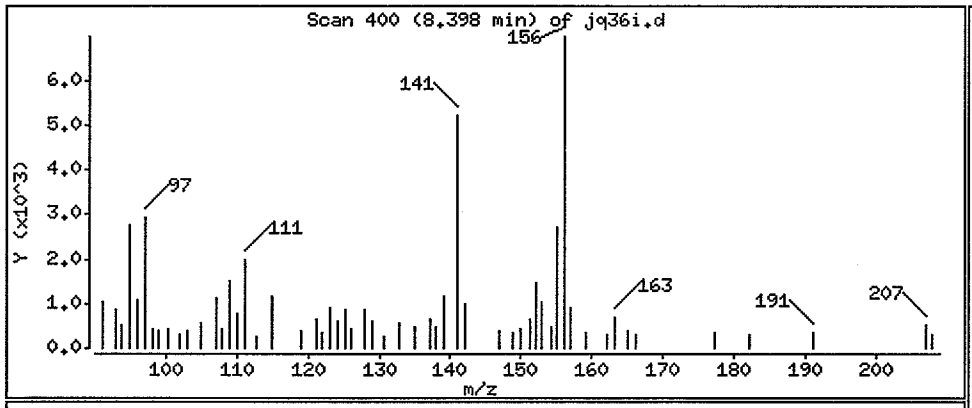
Operator: VTS

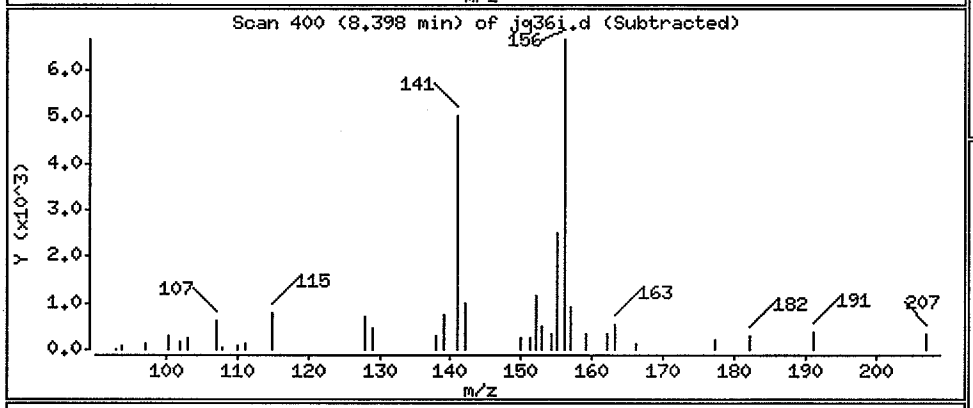
Column phase: ZB-5

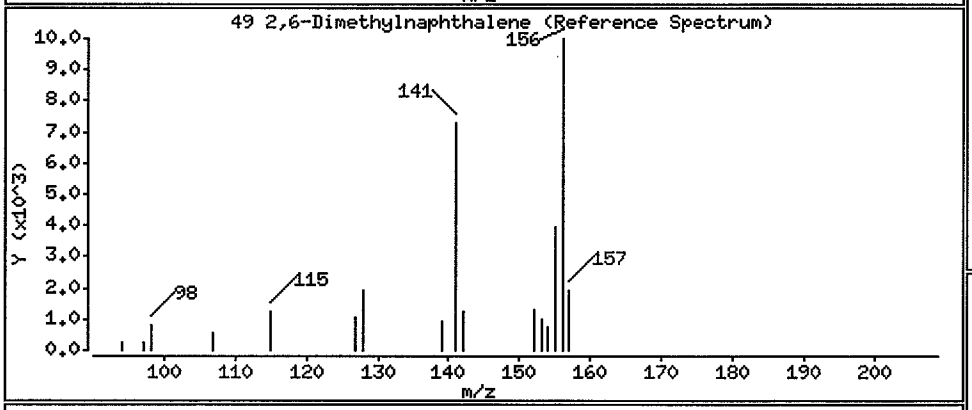
Column diameter: 0.25

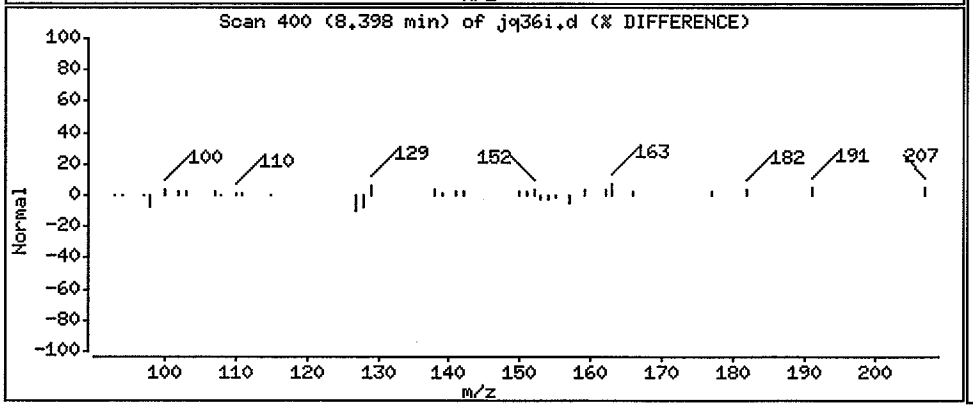
49 2,6-Dimethylnaphthalene

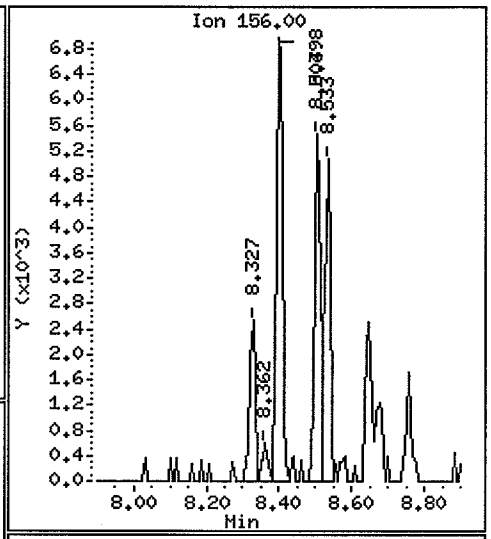
Concentration: 6.460 ug/kg

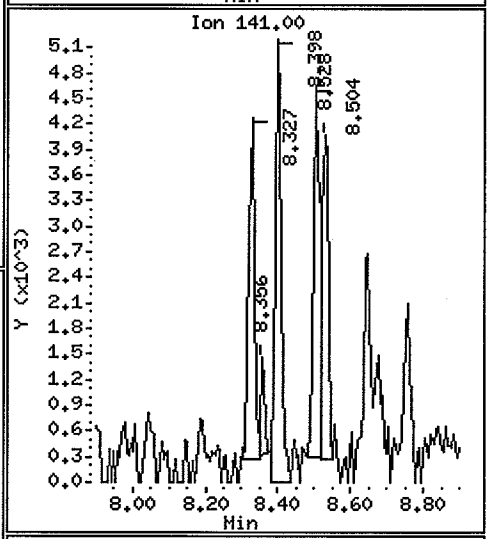


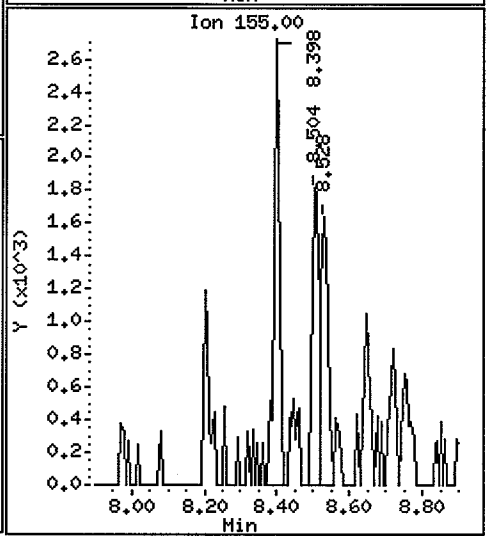












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

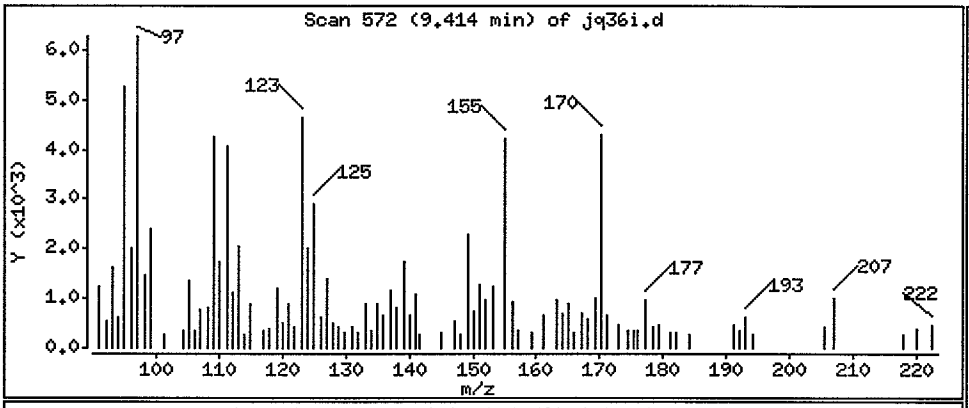
Client ID: T4-WB-01 Instrument: nt1.i

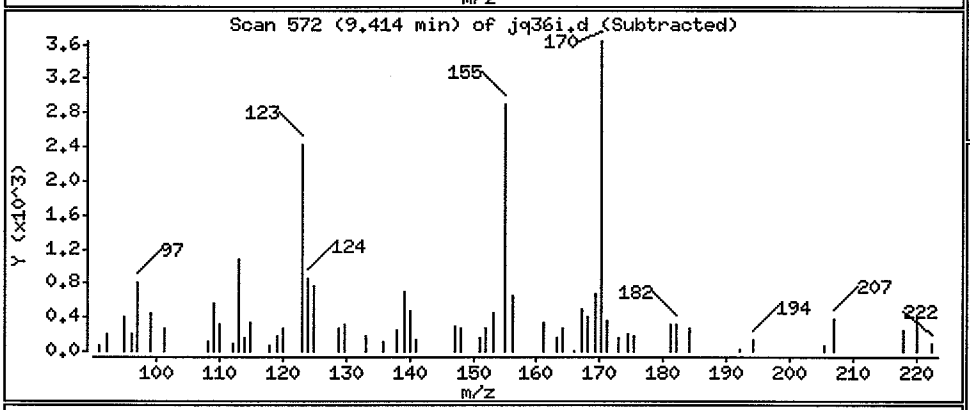
Sample Info: JQ36I

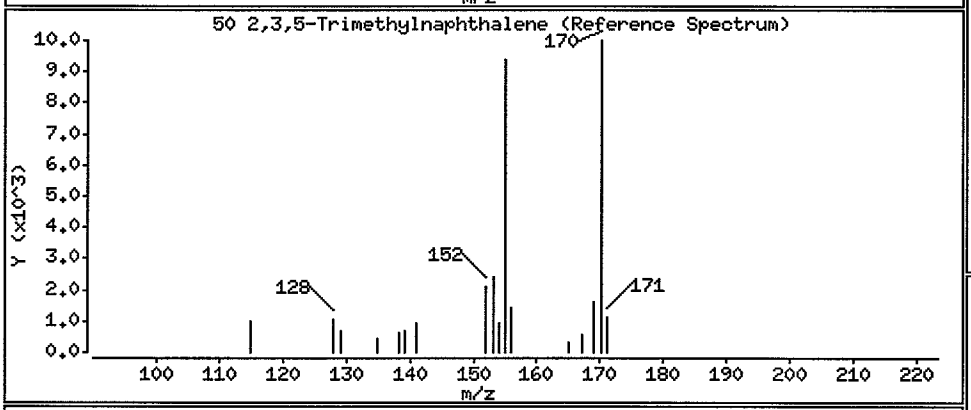
Volume Injected (uL): 1.0 Operator: VTS

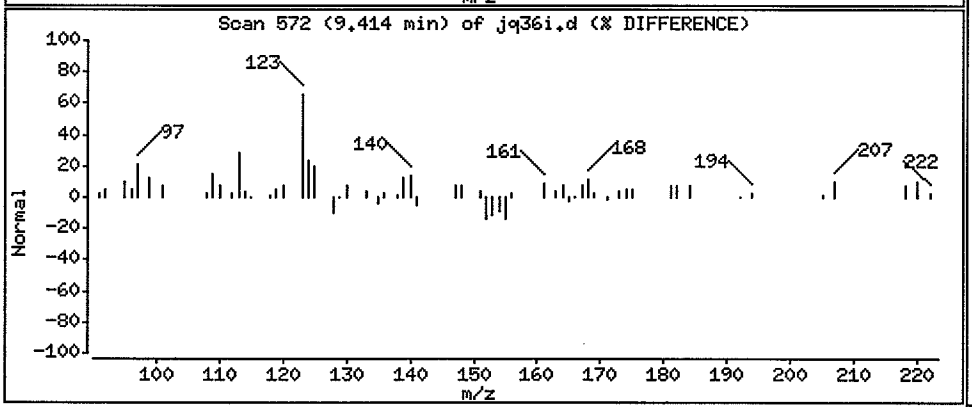
Column phase: ZB-5 Column diameter: 0.25

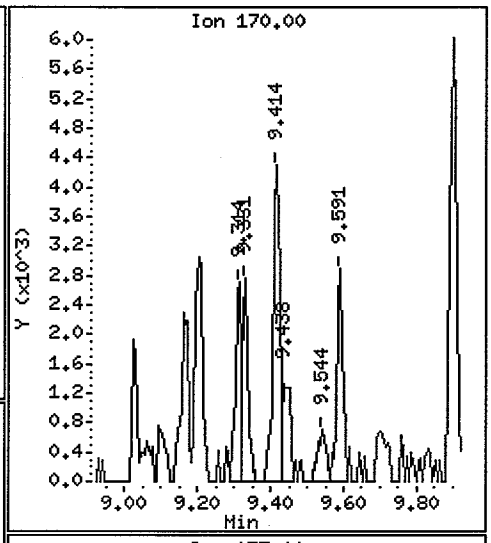
50 2,3,5-Trimethylnaphthalene Concentration: 5.230 ug/kg

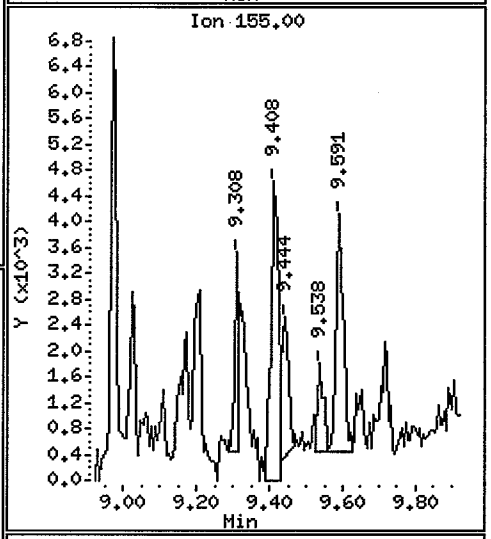


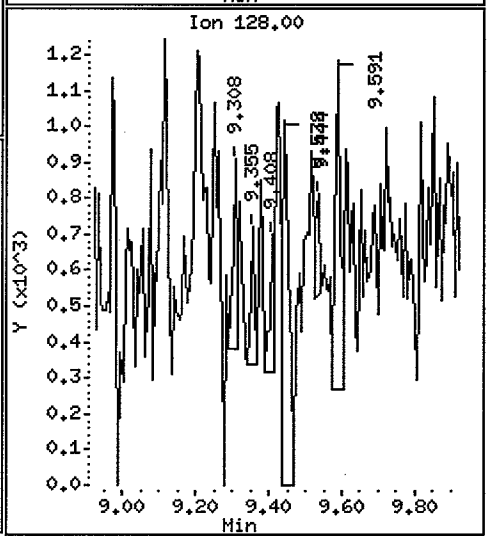












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

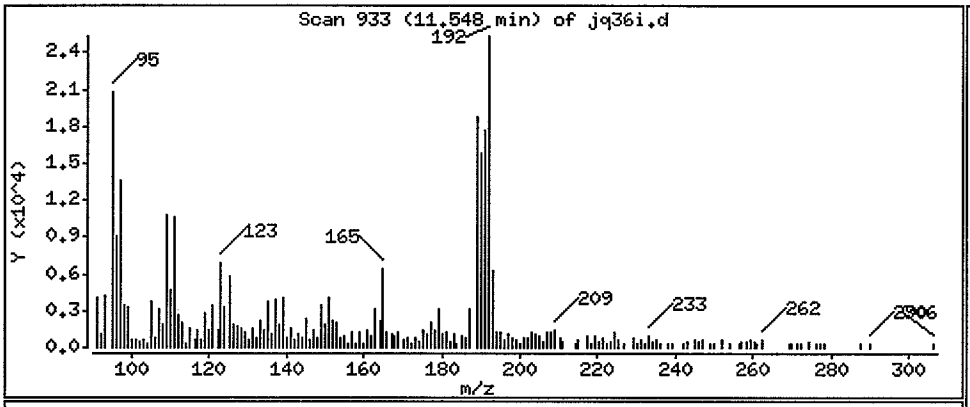
Client ID: T4-WB-01 Instrument: nt1.i

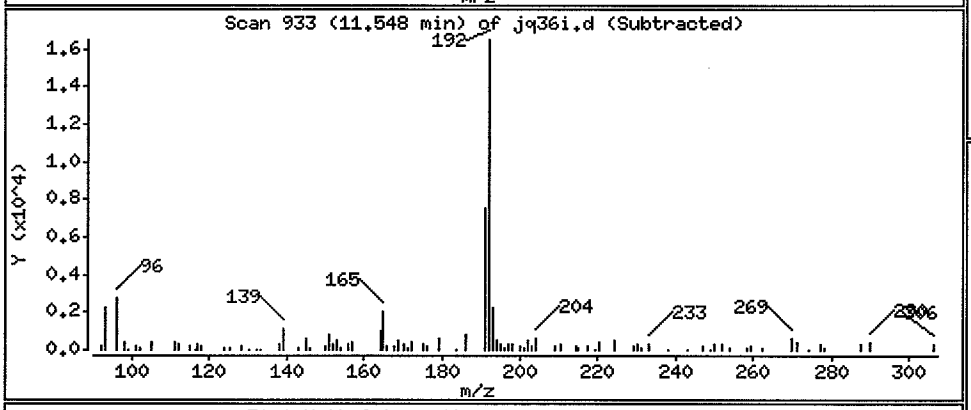
Sample Info: JQ36I

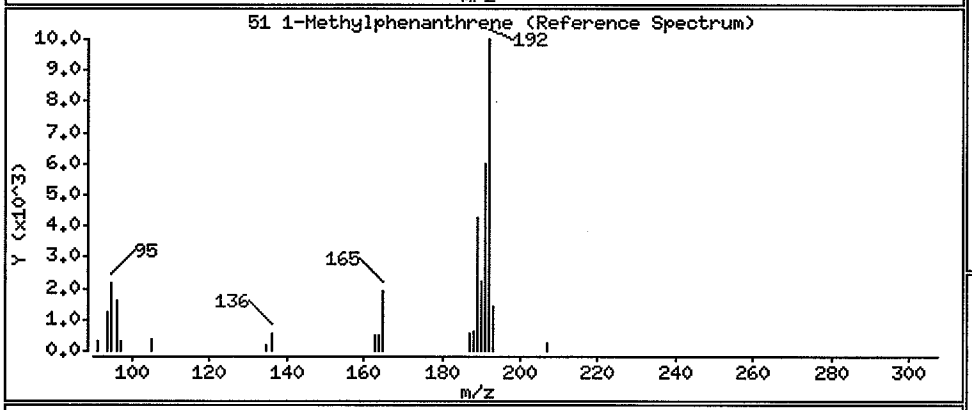
Volume Injected (uL): 1.0 Operator: VTS

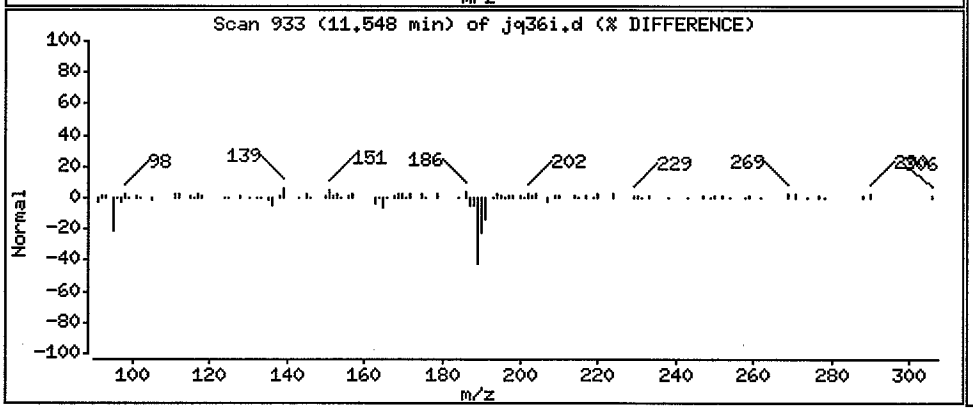
Column phase: ZB-5 Column diameter: 0.25

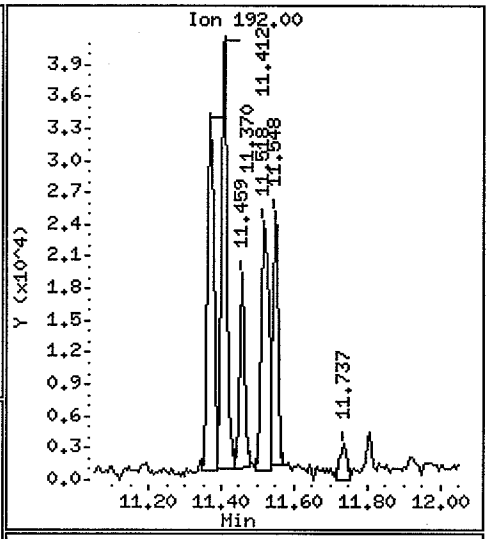
51 1-Methylphenanthrene Concentration: 16.00 ug/kg

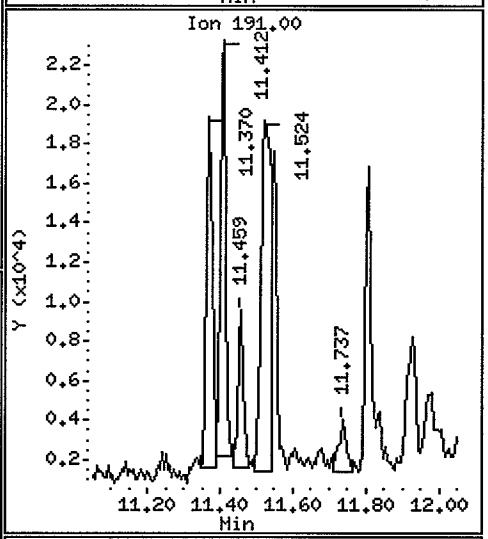


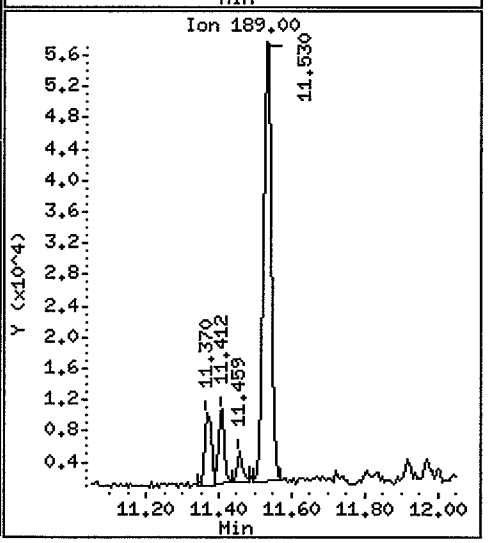












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

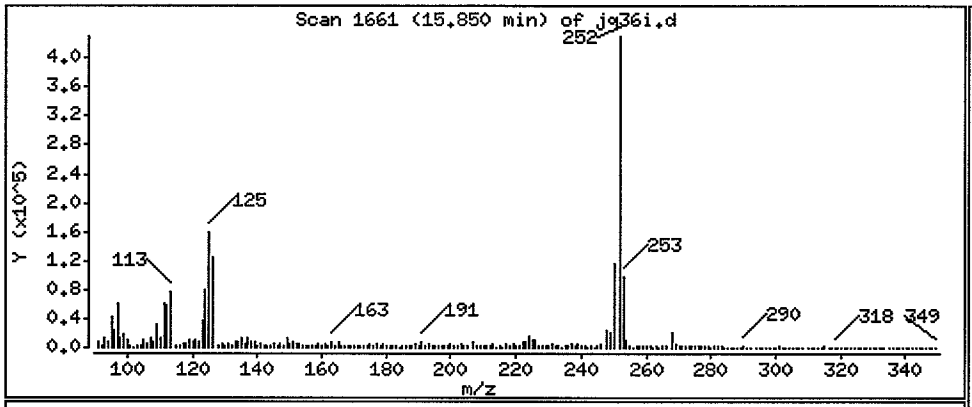
Operator: VTS

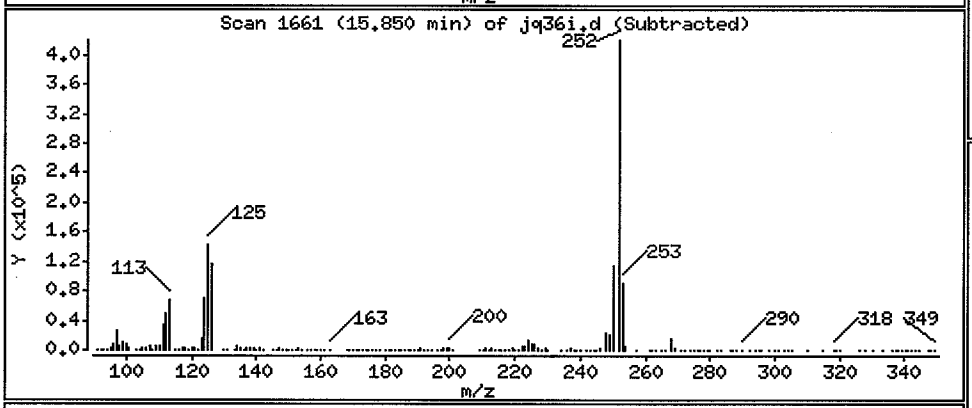
Column phase: ZB-5

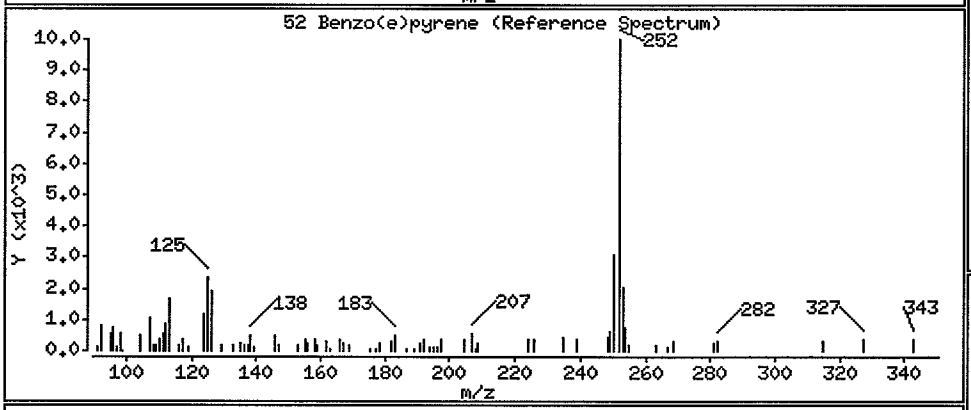
Column diameter: 0.25

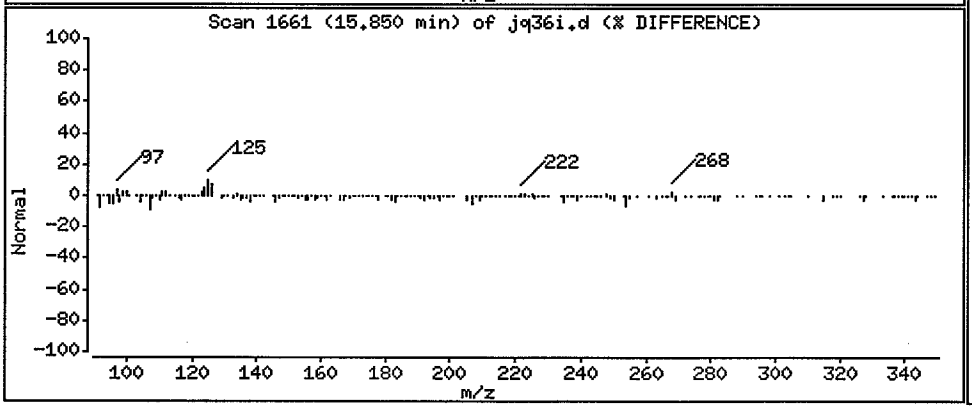
52 Benzo(e)pyrene

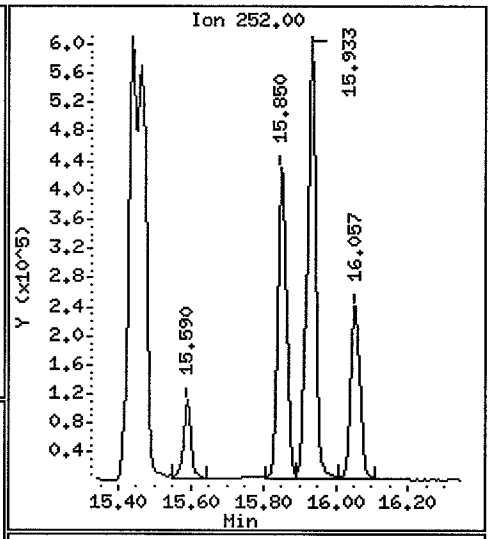
Concentration: 253.5 ug/kg

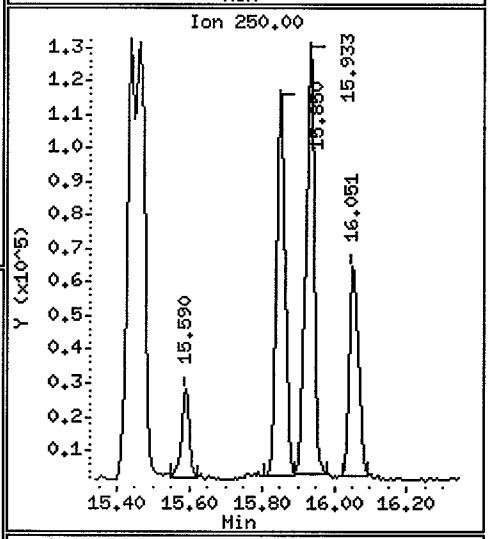


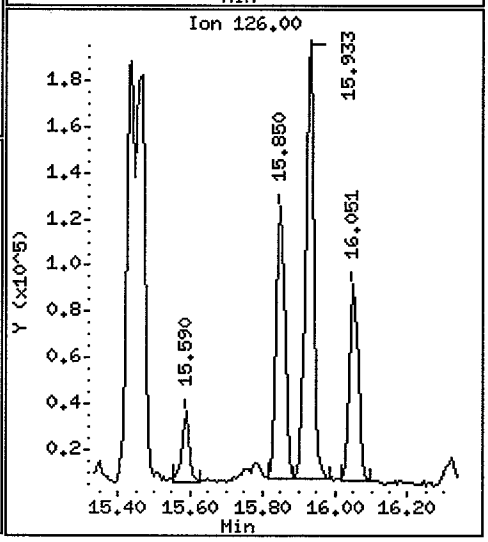












Data File: /chem3/nt1.i/20060810.b/jq36i.d

Date : 10-AUG-2006 18:45

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I

Volume Injected (uL): 1.0

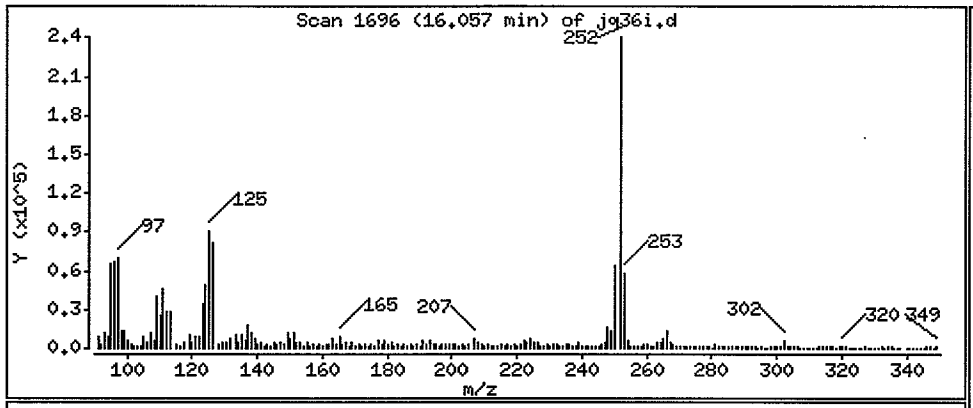
Operator: VTS

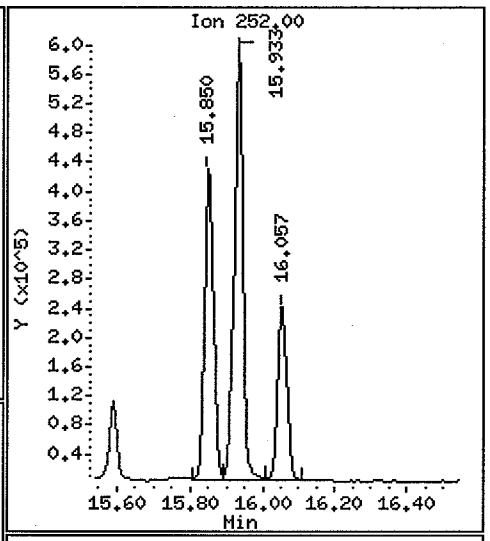
Column phase: ZB-5

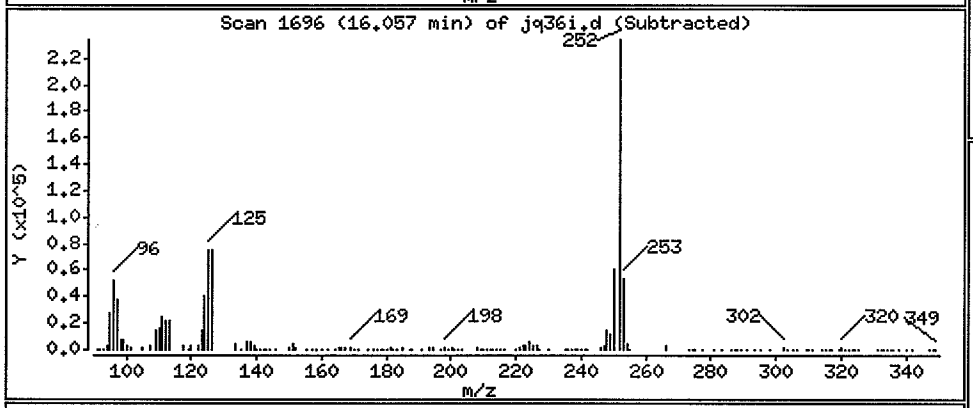
Column diameter: 0.25

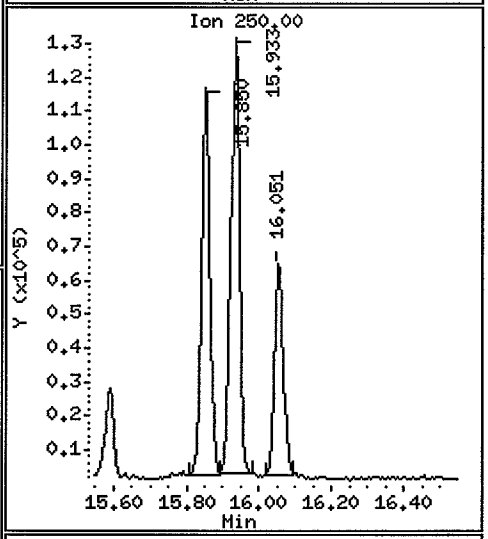
53 Perylene

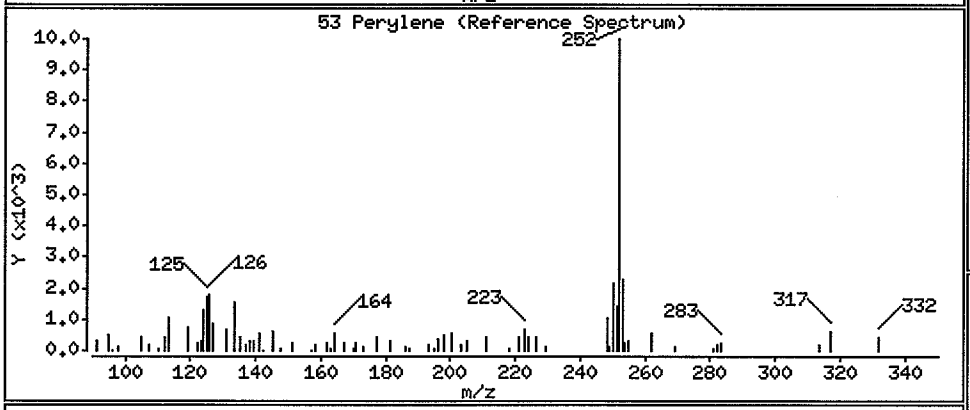
Concentration: 158.6 ug/kg

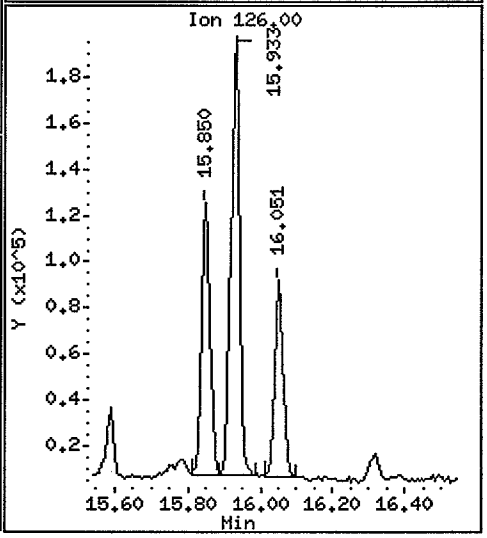


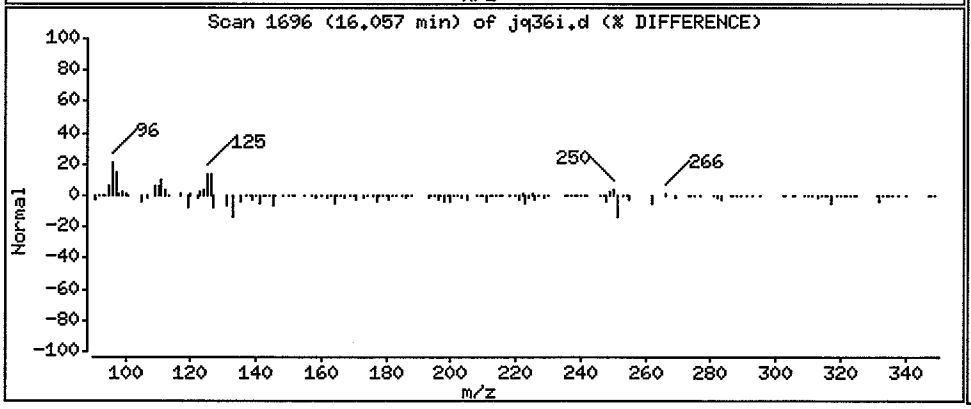












ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JQ36I
LIMS ID: 06-12980
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 14:21
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 56.7%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	49	< 49 U
91-57-6	2-Methylnaphthalene	49	< 49 U
90-12-0	1-Methylnaphthalene	49	< 49 U
208-96-8	Acenaphthylene	49	< 49 U
83-32-9	**Acenaphthene**	**49**	**44 J**
86-73-7	Fluorene	49	< 49 U
85-01-8	**Phenanthrene**	**49**	**240**
120-12-7	**Anthracene**	**49**	**74**
206-44-0	**Fluoranthene**	**49**	**560**
129-00-0	**Pyrene**	**49**	**550**
56-55-3	**Benzo(a)anthracene**	**49**	**280**
218-01-9	**Chrysene**	**49**	**410**
205-99-2	**Benzo(b)fluoranthene**	**49**	**390**
207-08-9	**Benzo(k)fluoranthene**	**49**	**320**
50-32-8	**Benzo(a)pyrene**	**49**	**390**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**49**	**280**
53-70-3	**Dibenz(a,h)anthracene**	**49**	**78**
191-24-2	**Benzo(g,h,i)perylene**	**49**	**330**
198-55-0	**Perylene**	**49**	**170**
92-52-4	Biphenyl	49	< 49 U
581-42-0	2,6-Dimethylnaphthalene	49	< 49 U
832-69-9	1-Methylphenanthrene	49	< 49 U
192-97-2	**Benzo(e)pyrene**	**49**	**260**
2245-38-7	2,3,5-Trimethylnaphthalene	49	< 49 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	48.7%
d14-Dibenzo(a,h)anthracen	69.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq36i.d
Lab Smp Id: JQ36I Client Smp ID: T4-WB-01
Inj Date : 09-AUG-2006 14:21
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36I,10
Misc Info : 06-12980
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 09:48 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 8
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	23.60000	Weight of sample extracted (g)
M	56.70000	% 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	6.877	6.877	(1.000)	302761	2.00000		
	2 Naphthalene	128	Compound Not Detected.						
$	3 2-Methylnaphthalene-d10	152	7.634	7.634	(1.110)	11410	0.14632	71.59	
	4 2-Methylnaphthalene	142	Compound Not Detected.						
	5 1-Methylnaphthalene	142	Compound Not Detected.						
	7 Acenaphthylene	152	Compound Not Detected.						
*	8 Acenaphthene-d10	164	8.934	8.934	(1.000)	143704	2.00000		
	9 Acenaphthene	153	8.975	8.975	(1.005)	6090	0.08631	42.23	J
	10 Dibenzofuran	168	Compound Not Detected.						
	11 Fluorene	166	9.590	9.590	(1.073)	4278	0.05287	25.87	J
*	15 Phenanthrene-d10	188	10.748	10.748	(1.000)	208678	2.00000		
	16 Phenanthrene	178	10.778	10.778	(1.003)	53122	0.49595	242.7	
	17 Anthracene	178	10.831	10.837	(1.008)	15663	0.14633	71.60	
	19 Fluoranthene	202	12.267	12.273	(1.141)	125782	1.15132	563.3	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.557	12.557	(0.893)	127900	1.11565	545.9
	22 Benzo(a)anthracene	228	14.040	14.040	(0.998)	62512	0.58145	284.5
*	23 Chrysene-d12	240	14.064	14.058	(1.000)	178534	2.00000	
	24 Chrysene	228	14.094	14.093	(1.002)	82774	0.83473	408.4
	28 Benzo(b)fluoranthene	252	15.429	15.429	(0.964)	104481	0.80438	393.6
	29 Benzo(k)fluoranthene	252	15.459	15.459	(0.966)	90859	0.65614	321.0
	30 Benzo(a)pyrene	252	15.926	15.926	(0.995)	101288	0.80028	391.6
*	31 Perylene-d12	264	16.008	16.008	(1.000)	230149	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.959	17.959	(1.122)	82949	0.56990	278.8
$	32 Dibenz(a,h)anthrancene-d14	292	17.888	17.888	(1.117)	18331	0.20812	101.8
	34 Dibenz(a,h)anthracene	278	17.959	17.959	(1.122)	19152	0.16107	78.81(M)
	35 Benzo(g,h,i)perylene	276	18.544	18.544	(1.158)	81329	0.67220	328.9
	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	Compound Not Detected.					
	52 Benzo(e)pyrene	252	15.843	15.843	(0.990)	72897	0.52033	254.6
	53 Perylene	252	16.050	16.050	(1.003)	44267	0.33652	164.7

QC Flag Legend

M - Compound response manually integrated.

VTS

8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36i.d
Lab Smp Id: JQ36I
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12980

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-WB-01
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	302761	26.11
8 Acenaphthene-d10	117778	58889	235556	143704	22.01
15 Phenanthrene-d10	165702	82851	331404	208678	25.94
23 Chrysene-d12	120342	60171	240684	178534	48.36
31 Perylene-d12	134879	67440	269758	230149	70.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	0.00
8 Acenaphthene-d10	8.93	8.43	9.43	8.93	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.04
31 Perylene-d12	16.01	15.51	16.51	16.01	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

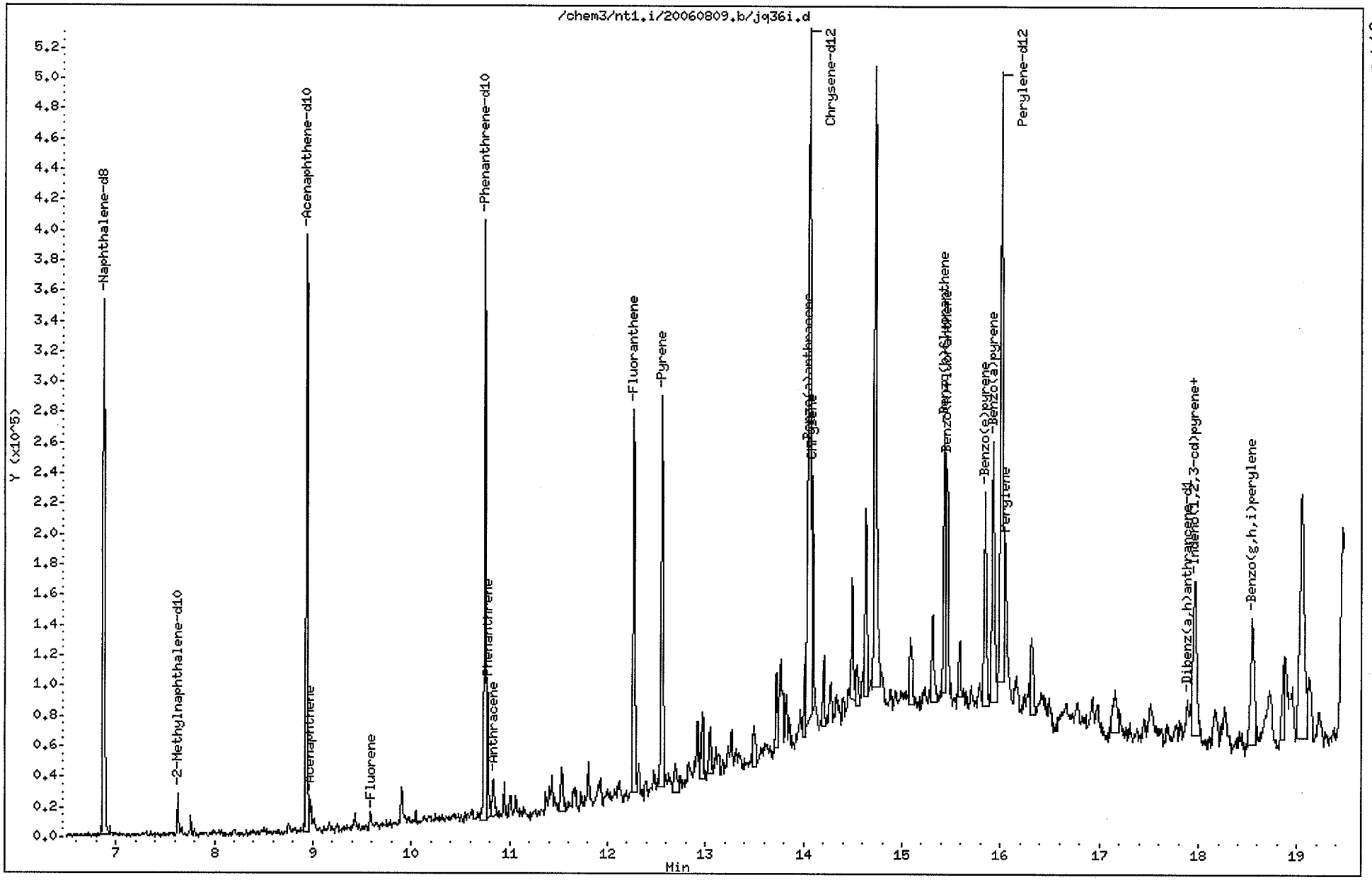
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36I
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-12980

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-WB-01
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	146.8	71.59	48.77	32-97
$ 32 Dibenz(a,h)anthran	146.8	101.8	69.37	21-105

Data File: /chem3/nt1.i/20060809.b/jq36i.d
Date : 09-AUG-2006 14:21
Client ID: T4-WB-01
Sample Info: JQ36I,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0449

Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

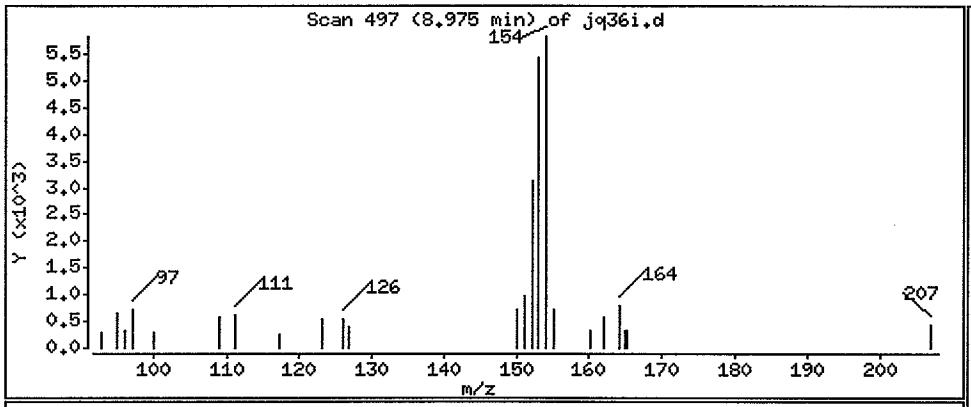
Operator: VTS

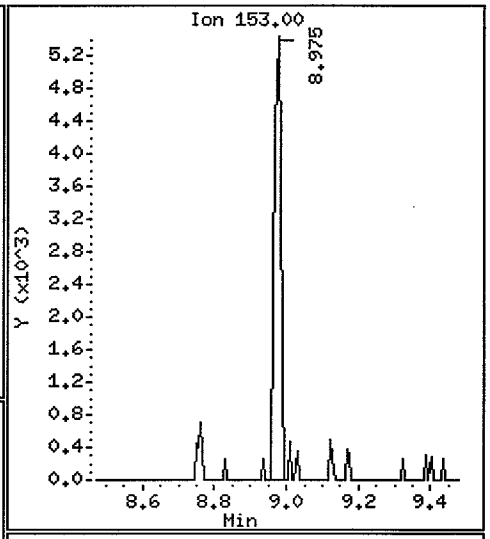
Column phase: ZB-5

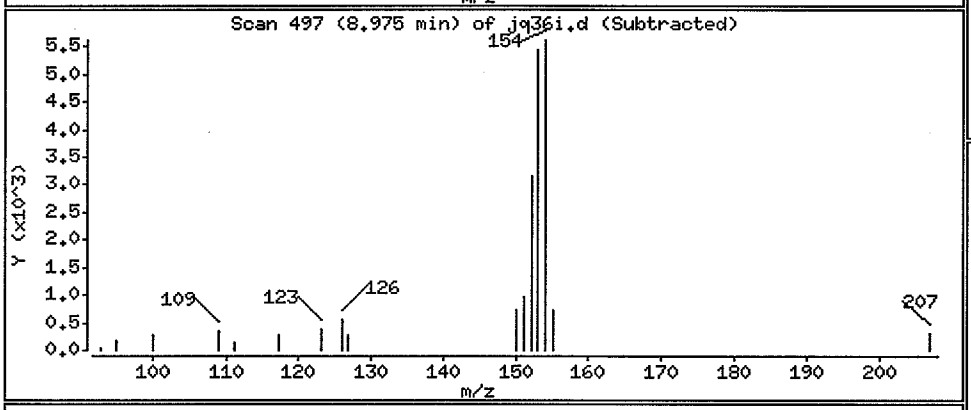
Column diameter: 0.25

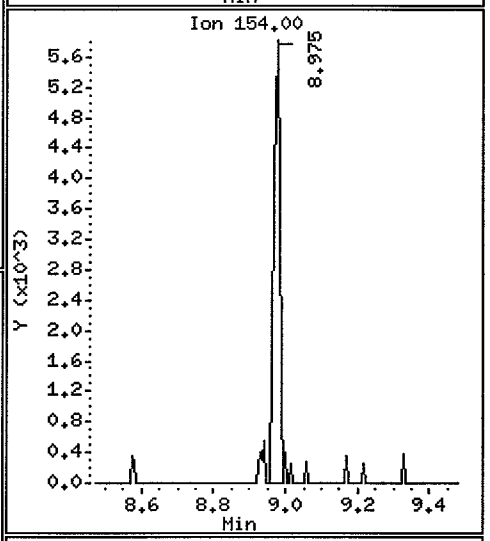
9 Acenaphthene

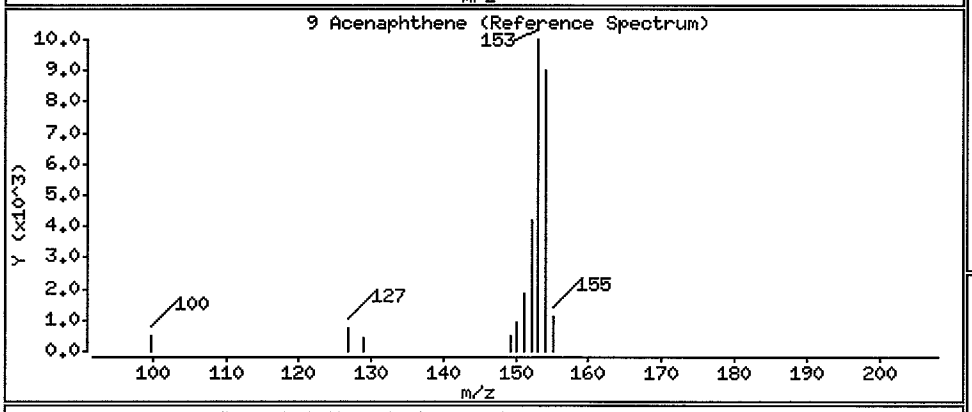
Concentration: 42.23 ug/kg

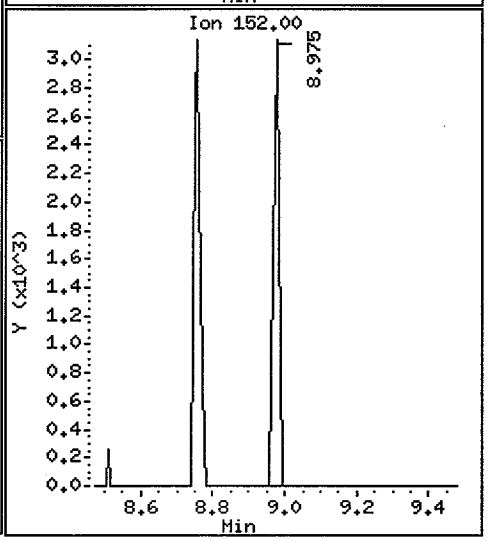


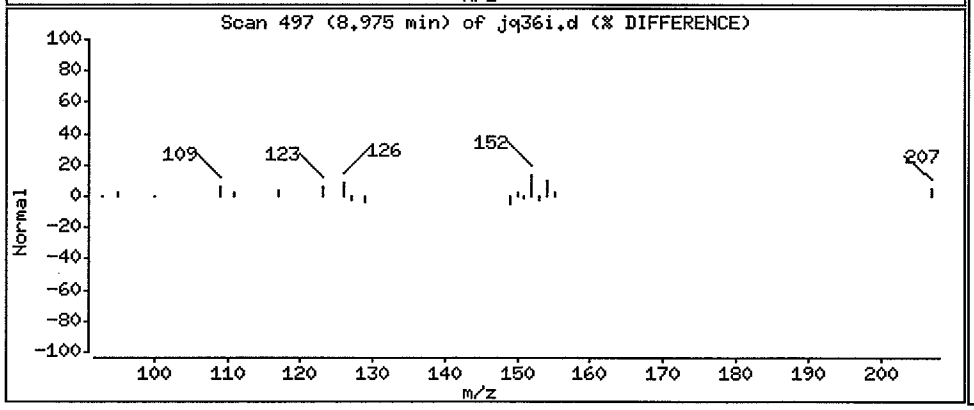












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

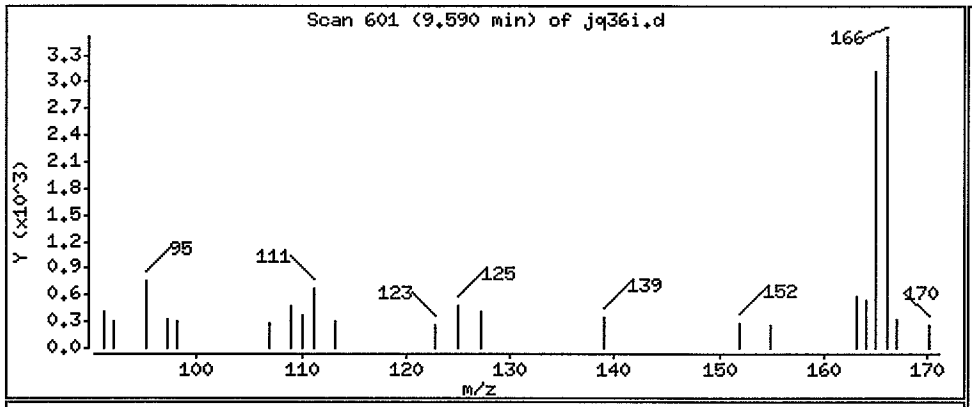
Operator: VTS

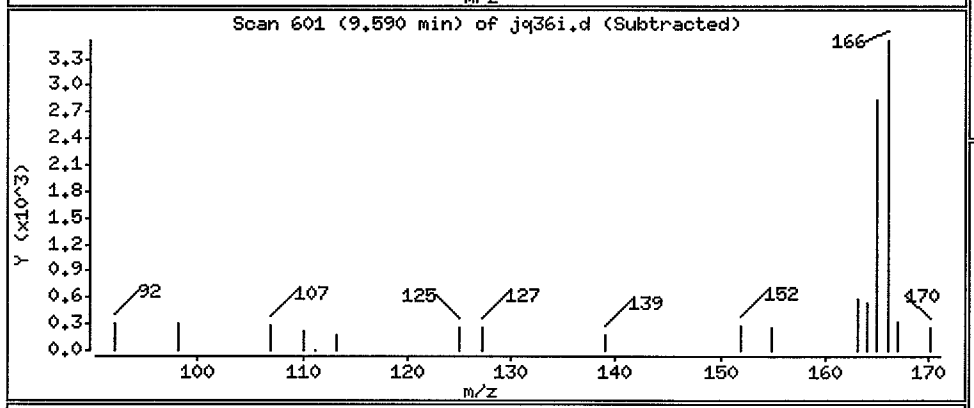
Column phase: ZB-5

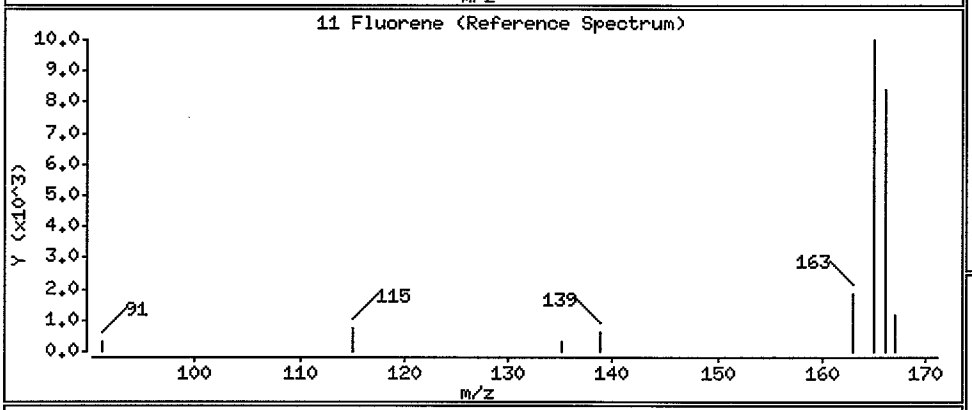
Column diameter: 0.25

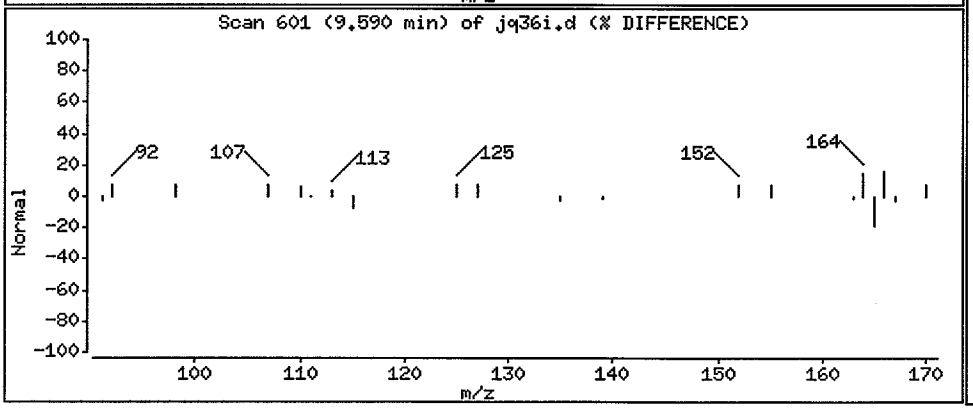
11 Fluorene

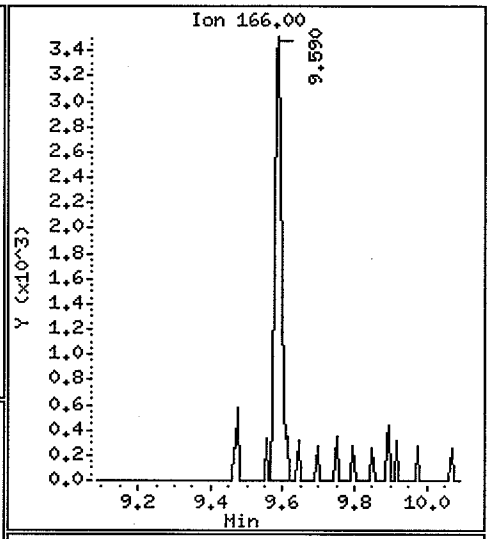
Concentration: 25.87 ug/kg

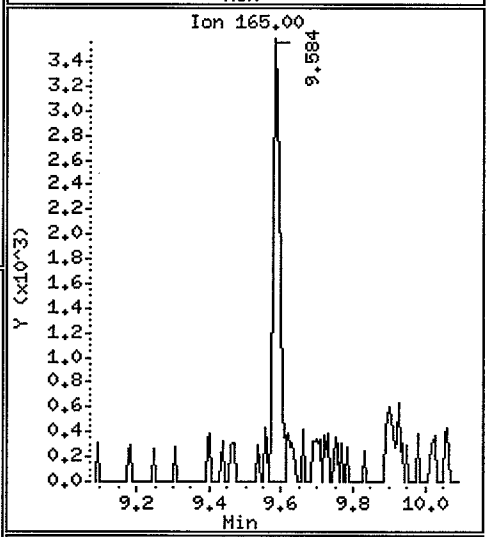


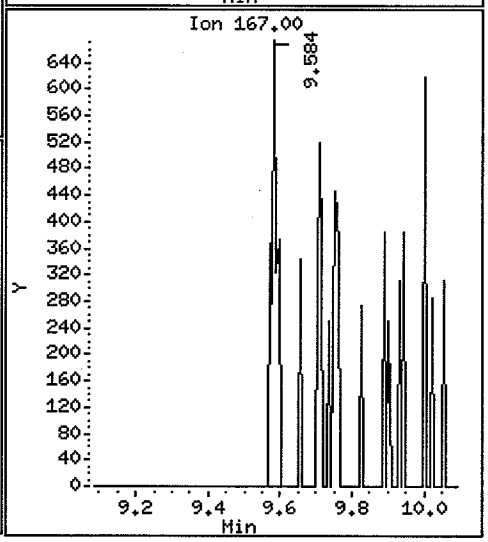












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

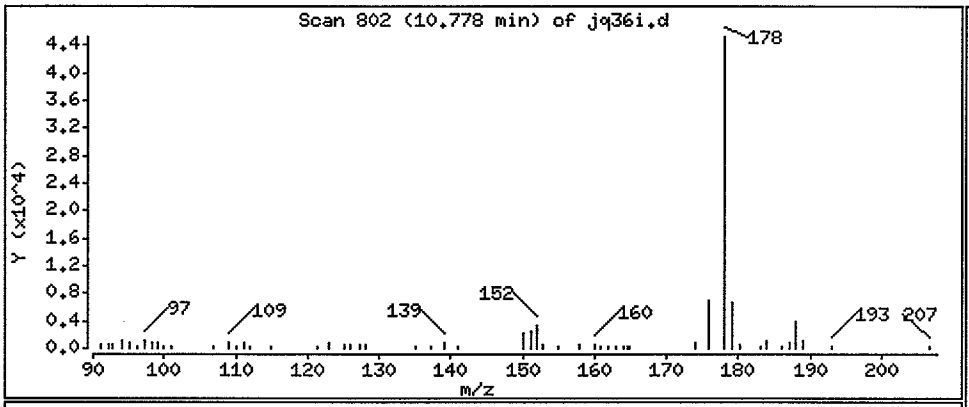
Client ID: T4-WB-01 Instrument: nt1.i

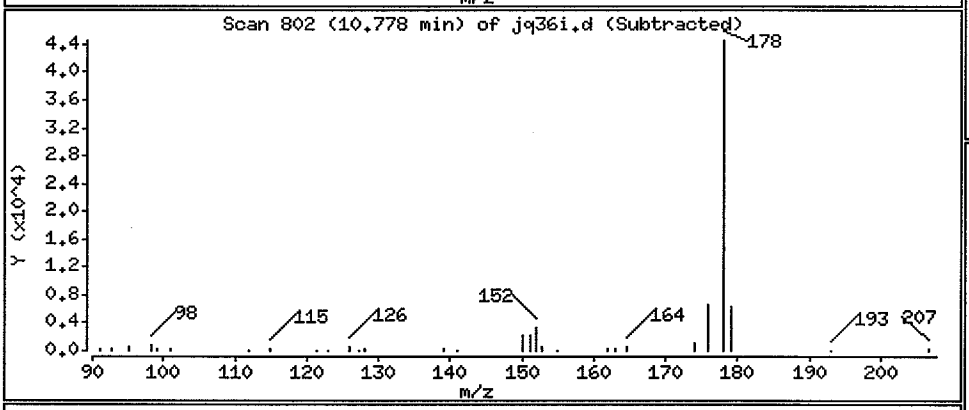
Sample Info: JQ36I,10

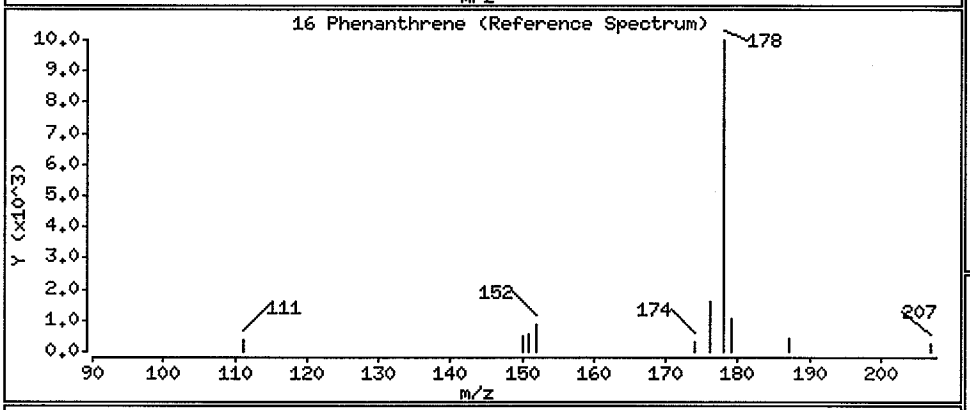
Volume Injected (uL): 1.0 Operator: VTS

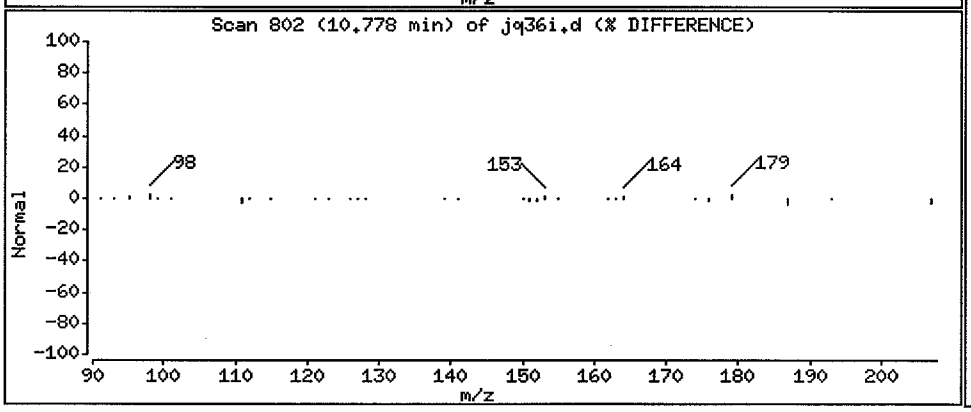
Column phase: ZB-5 Column diameter: 0.25

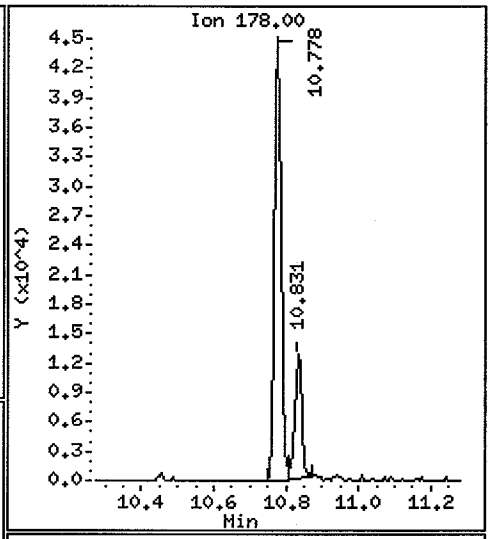
16 Phenanthrene Concentration: 242.7 ug/kg

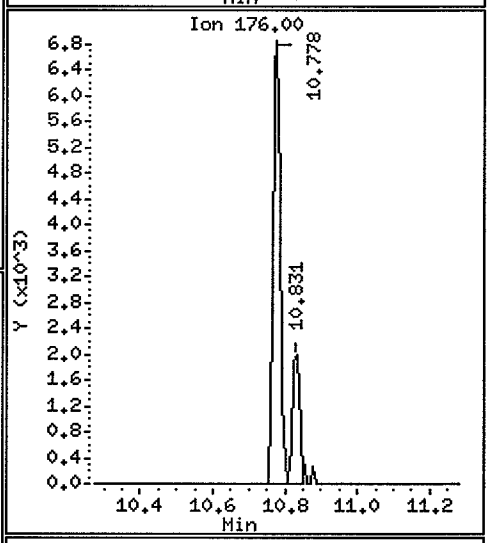


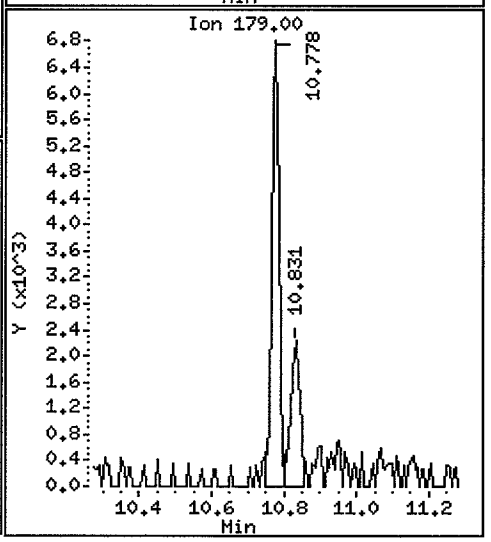












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

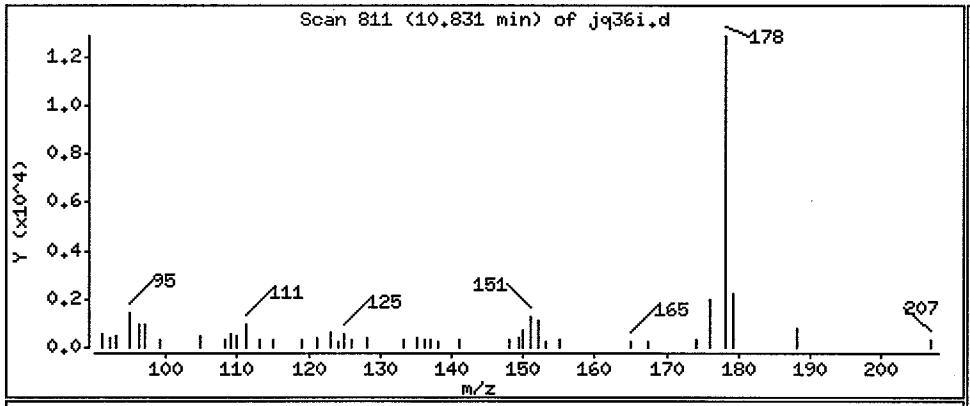
Operator: VTS

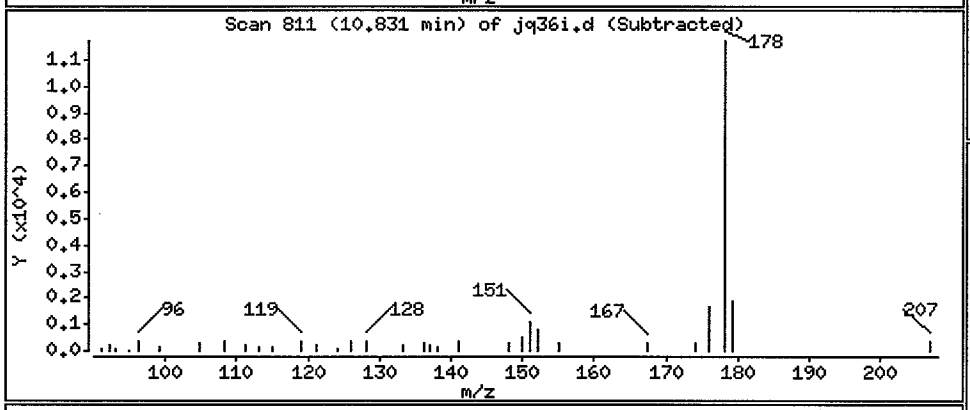
Column phase: ZB-5

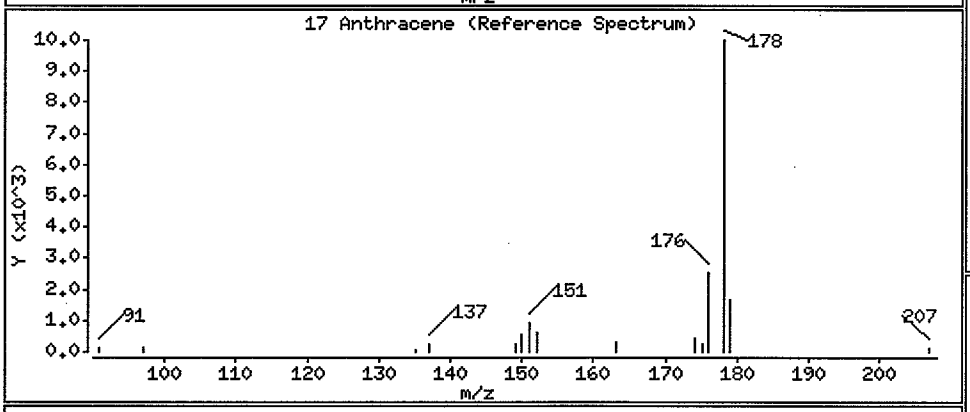
Column diameter: 0.25

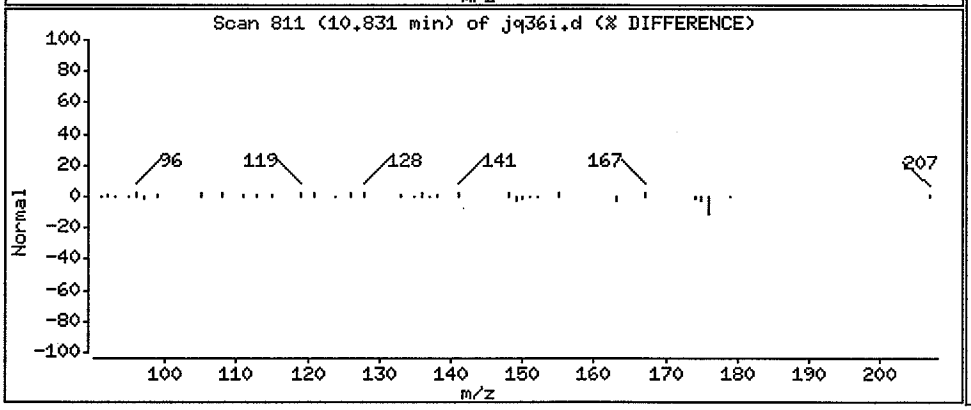
17 Anthracene

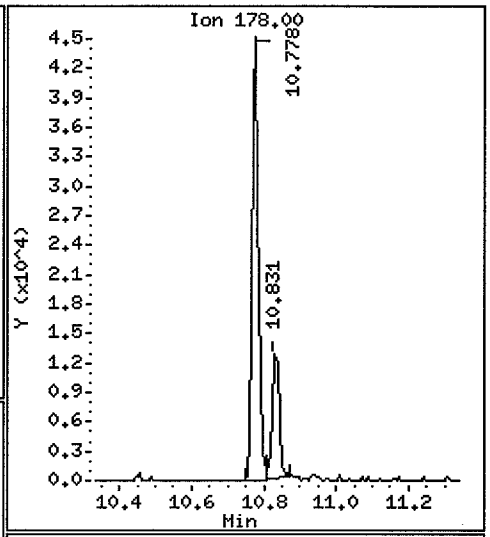
Concentration: 71.60 ug/kg

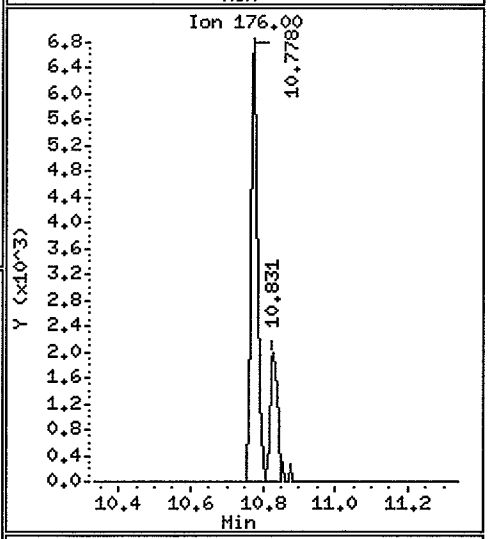


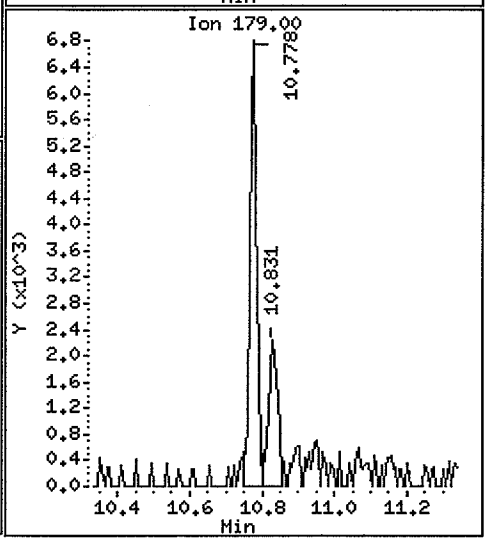












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

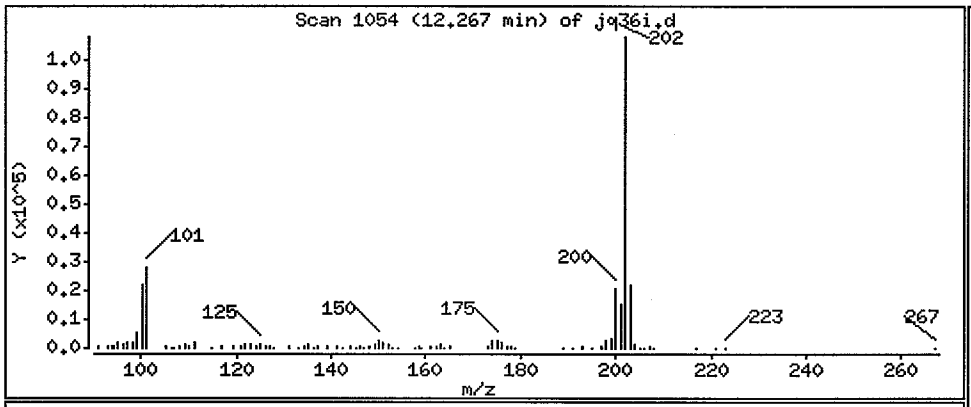
Client ID: T4-WB-01 Instrument: nt1.i

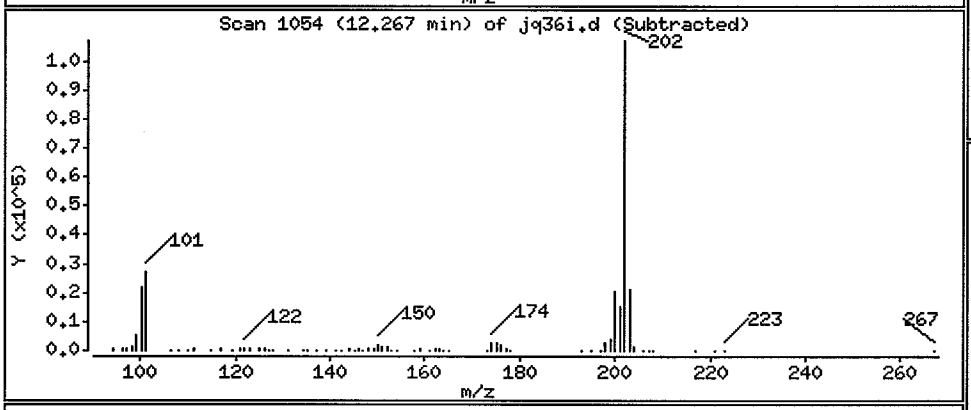
Sample Info: JQ36I,10

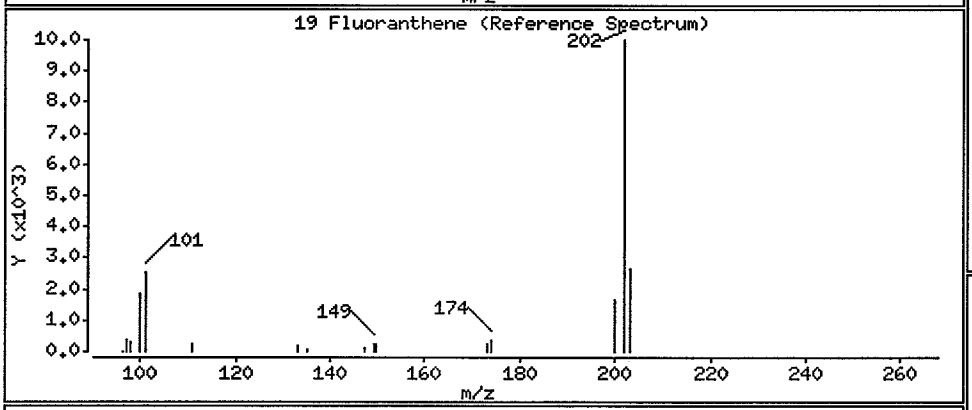
Volume Injected (uL): 1.0 Operator: VTS

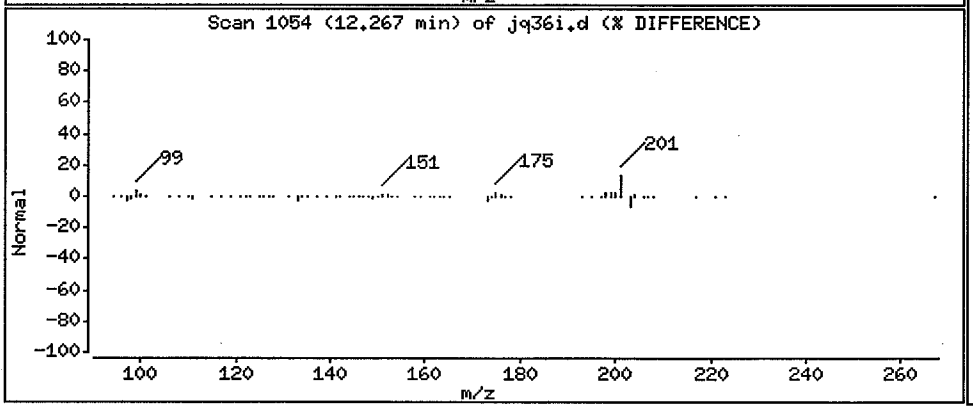
Column phase: ZB-5 Column diameter: 0.25

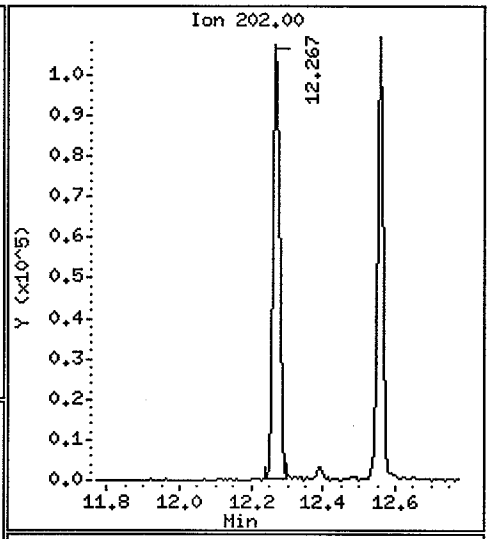
19 Fluoranthene Concentration: 563.3 ug/kg

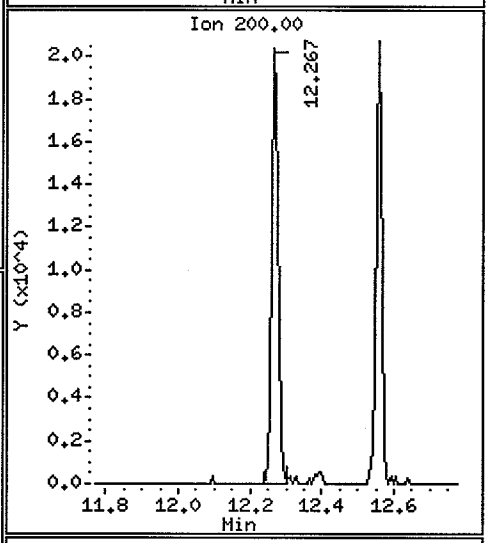


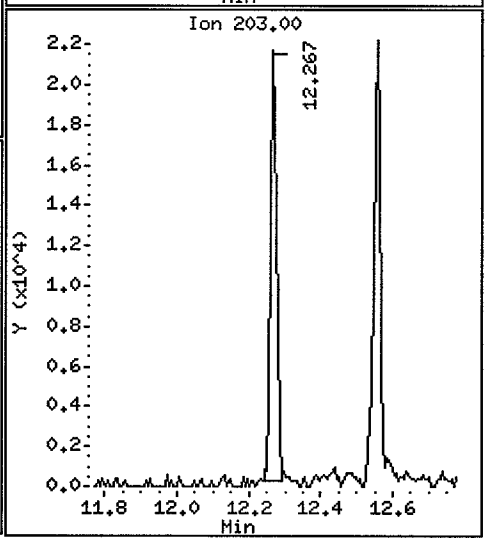












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

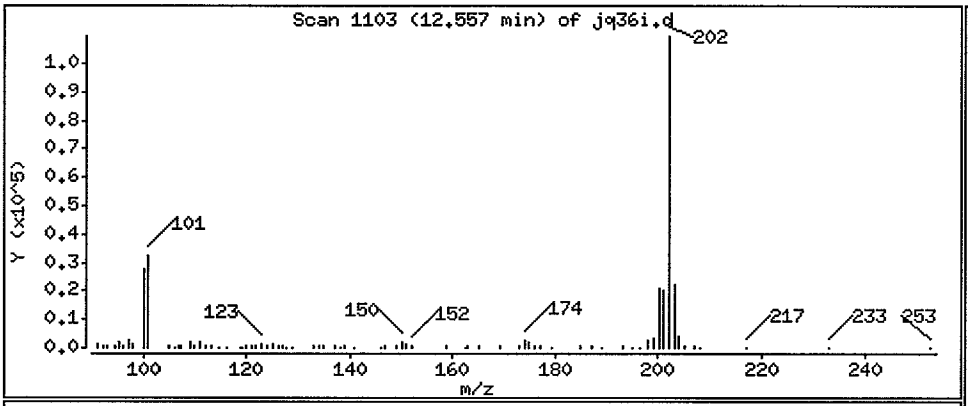
Operator: VTS

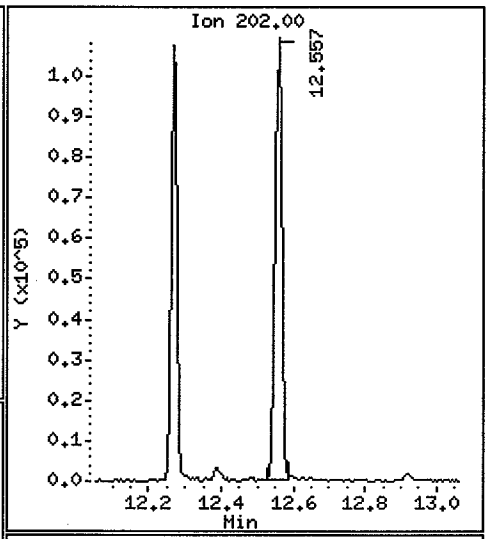
Column phase: ZB-5

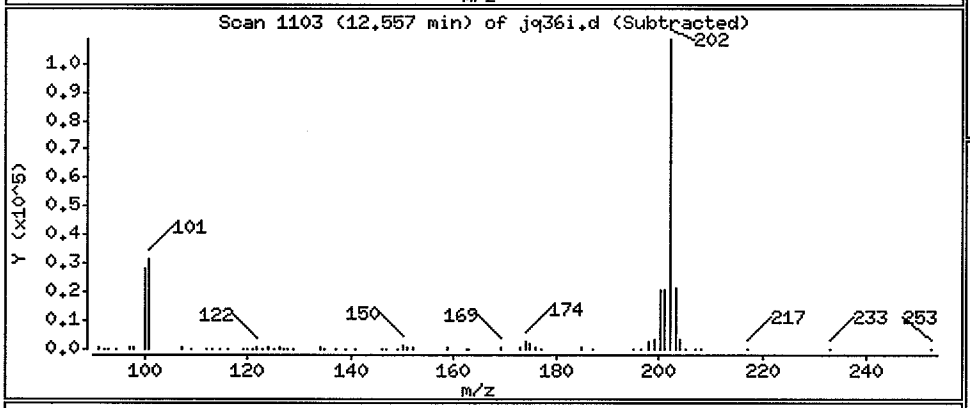
Column diameter: 0.25

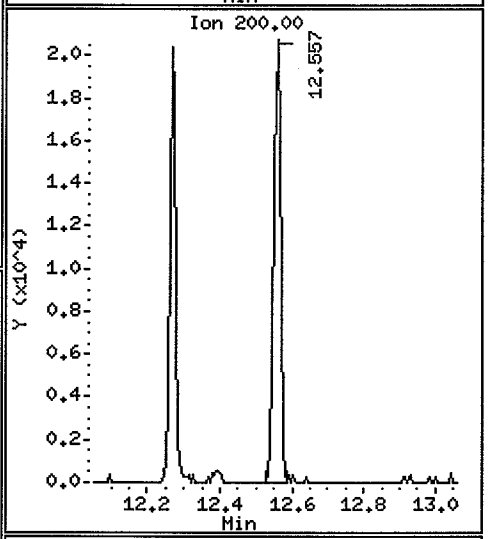
20 Pyrene

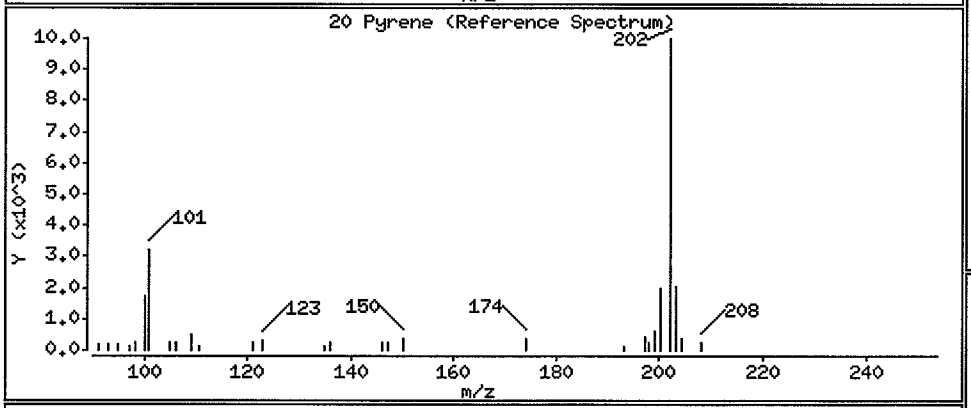
Concentration: 545.9 ug/kg

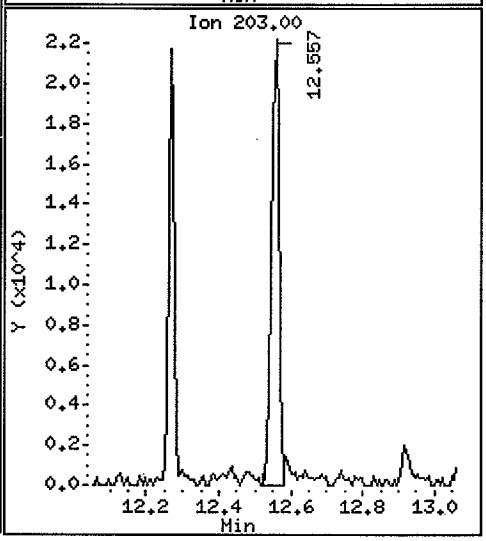


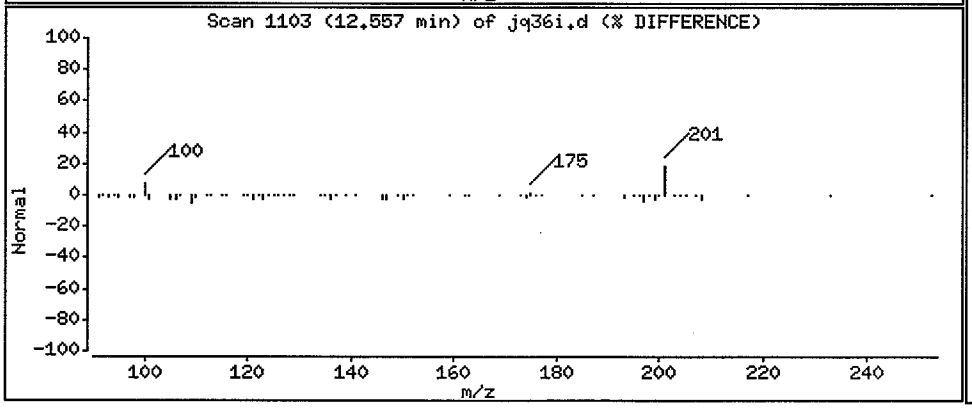












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

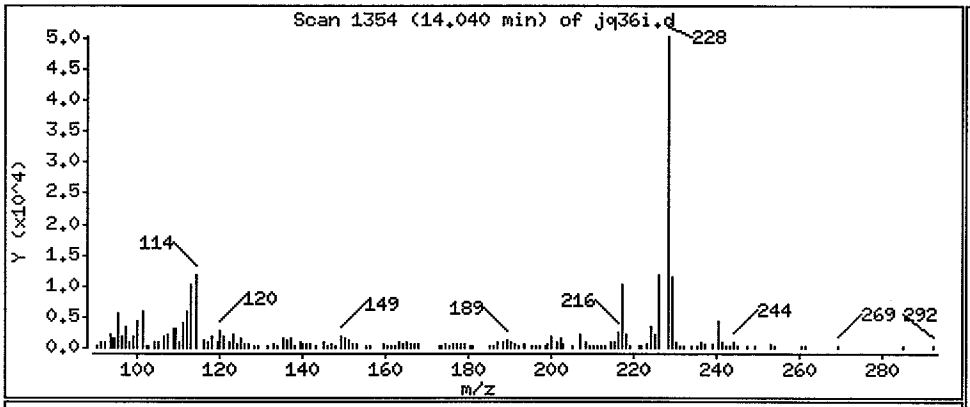
Operator: VTS

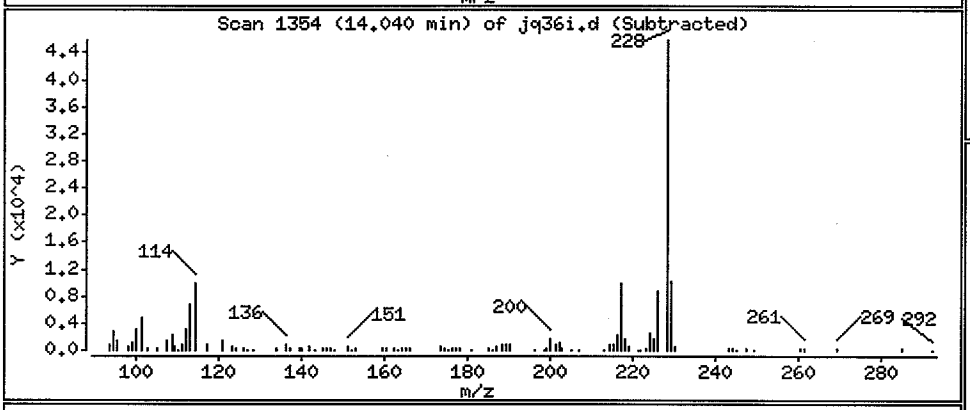
Column phase: ZB-5

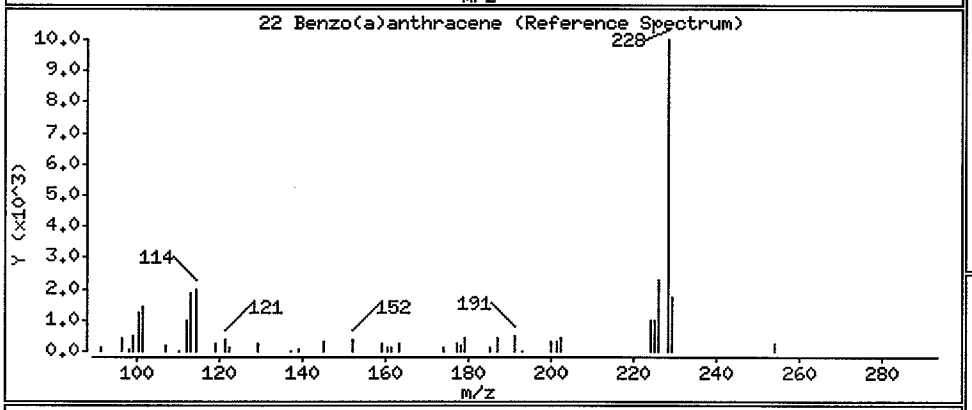
Column diameter: 0.25

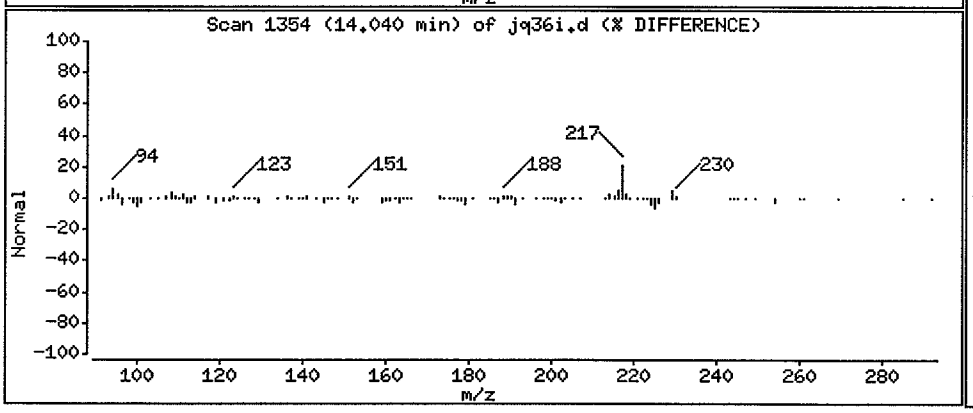
22 Benzo(a)anthracene

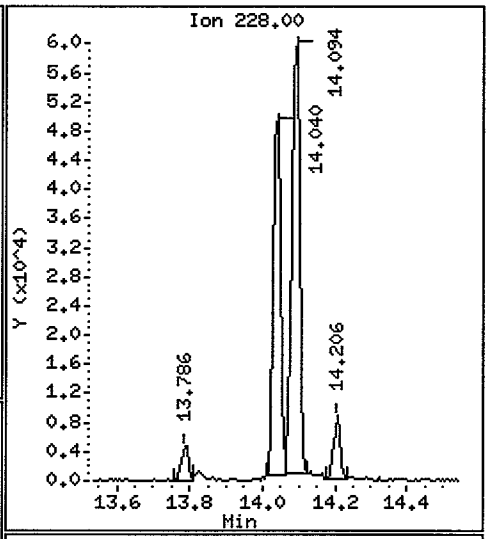
Concentration: 284.5 ug/kg

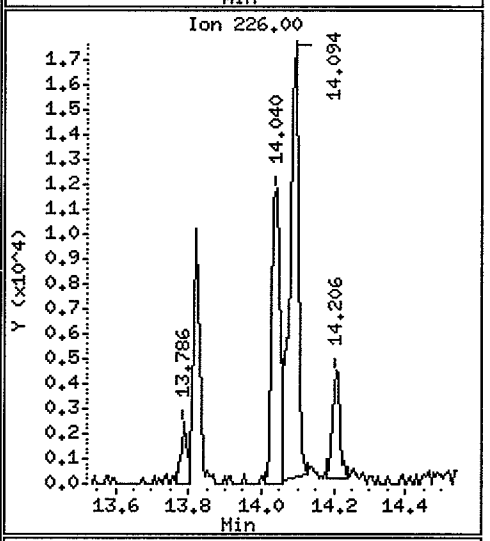


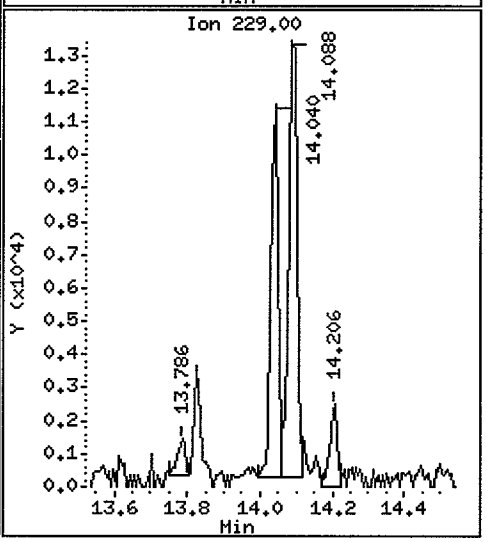












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

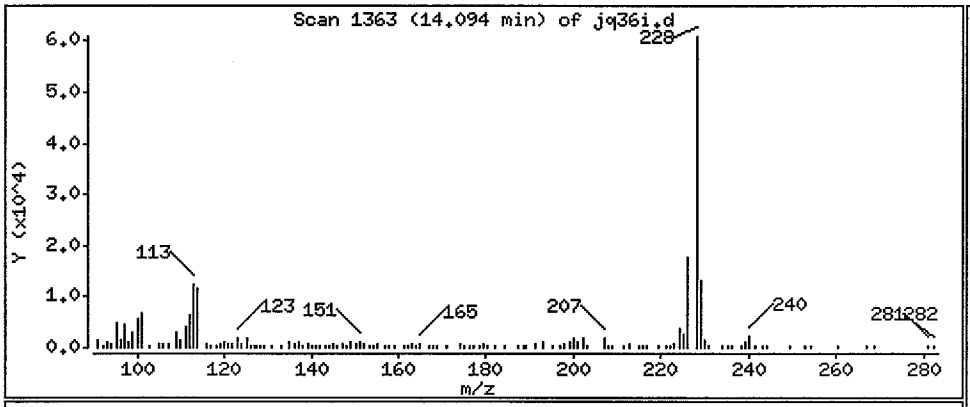
Operator: VTS

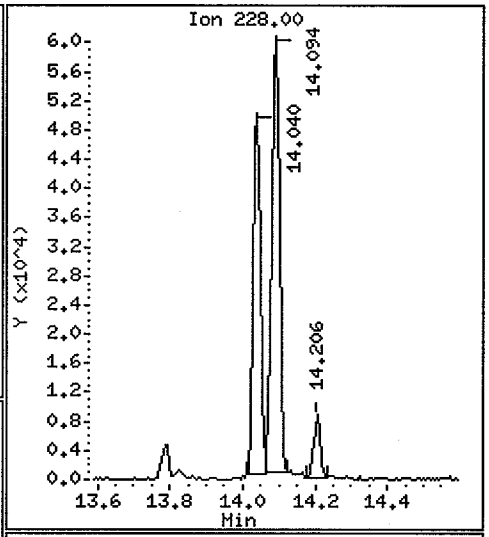
Column phase: ZB-5

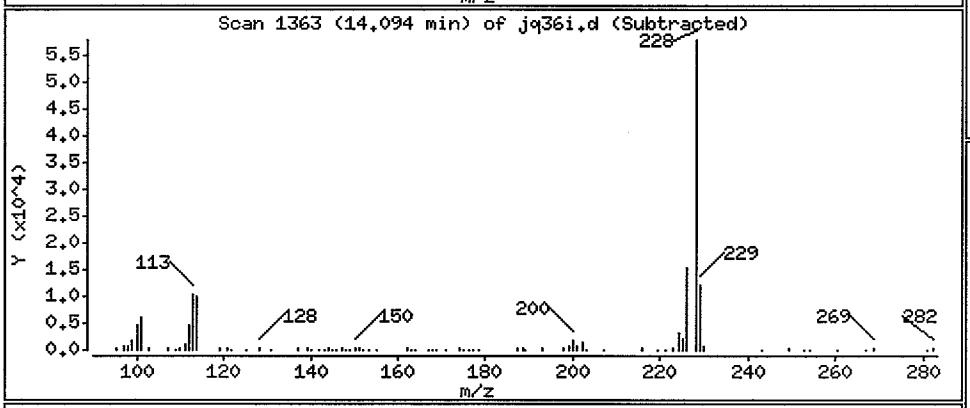
Column diameter: 0.25

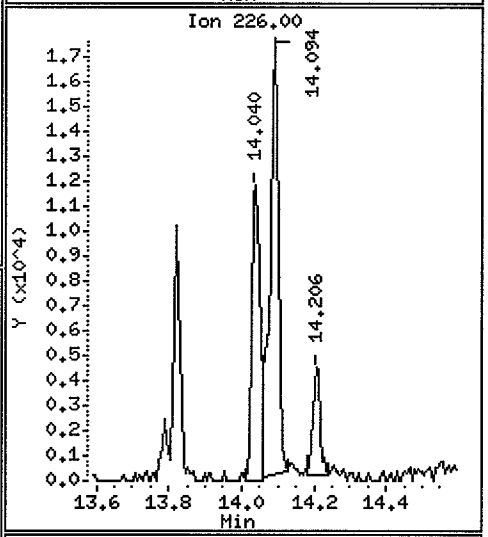
24 Chrysene

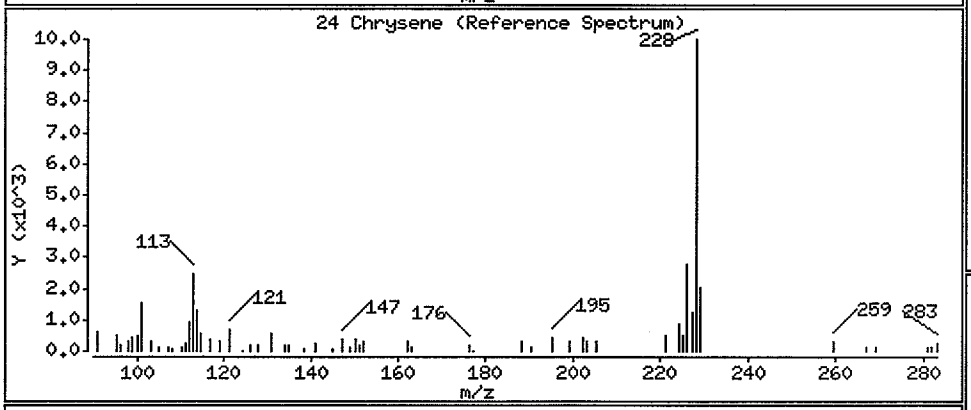
Concentration: 408.4 ug/kg

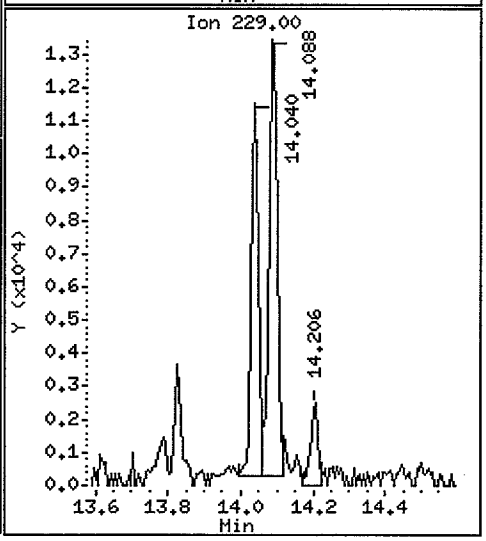


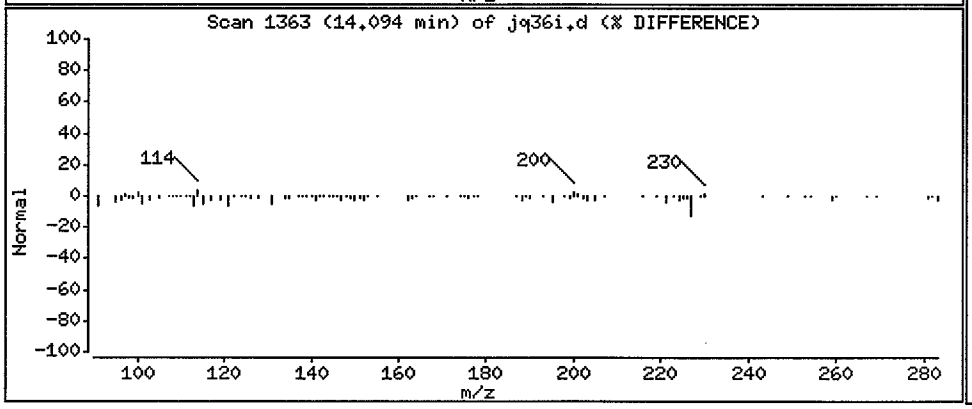












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

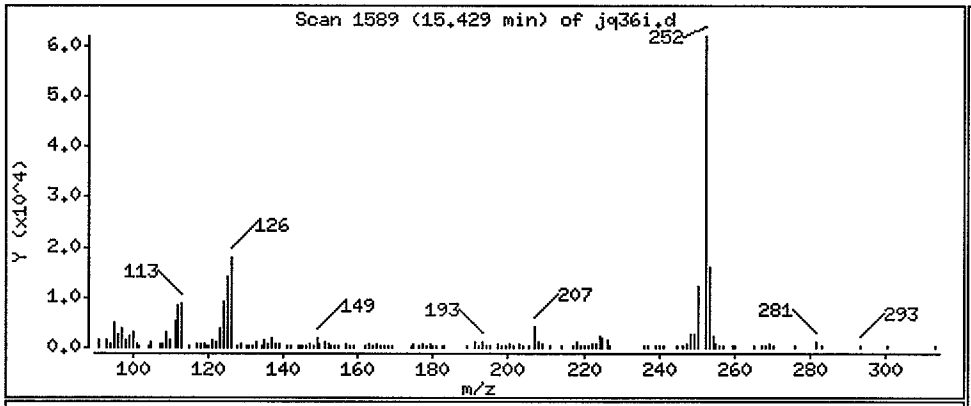
Operator: VTS

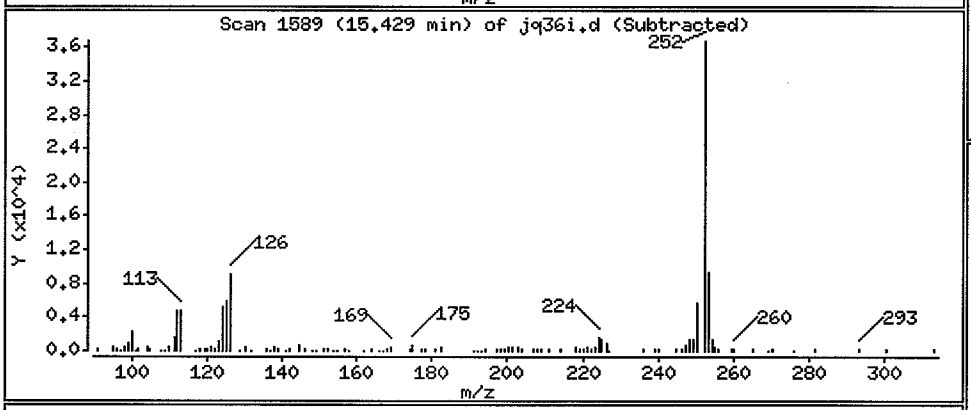
Column phase: ZB-5

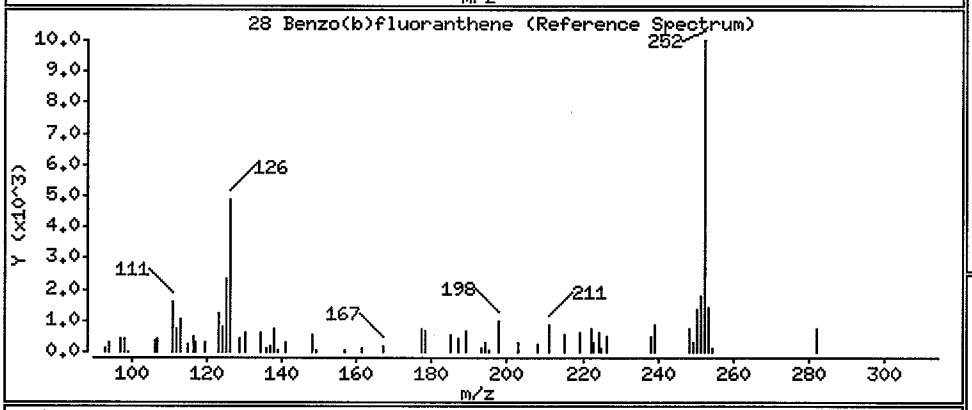
Column diameter: 0.25

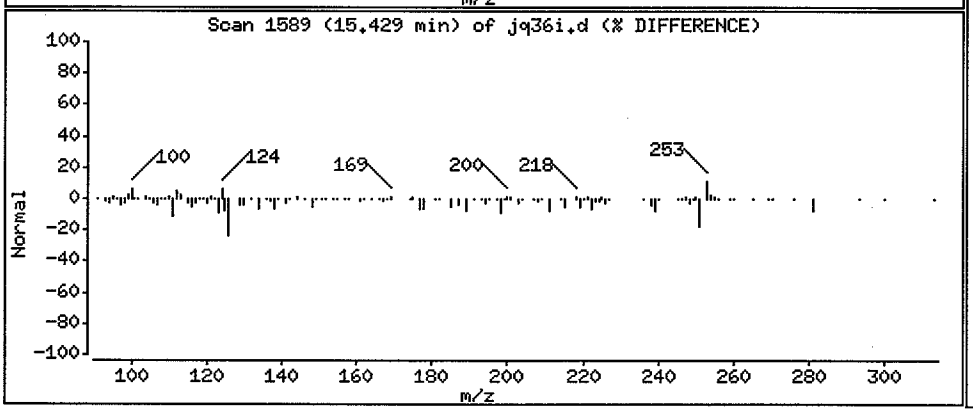
28 Benzo(b)fluoranthene

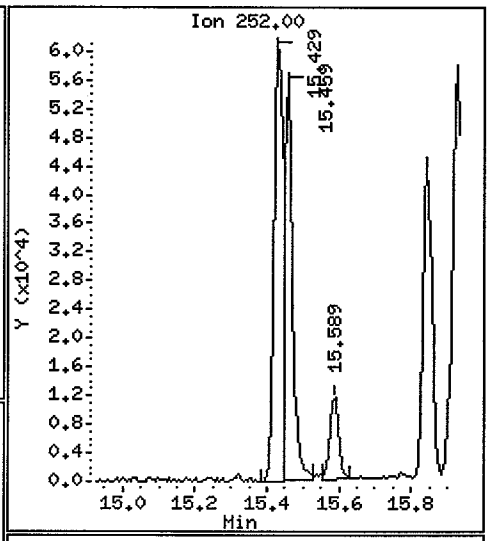
Concentration: 393.6 ug/kg

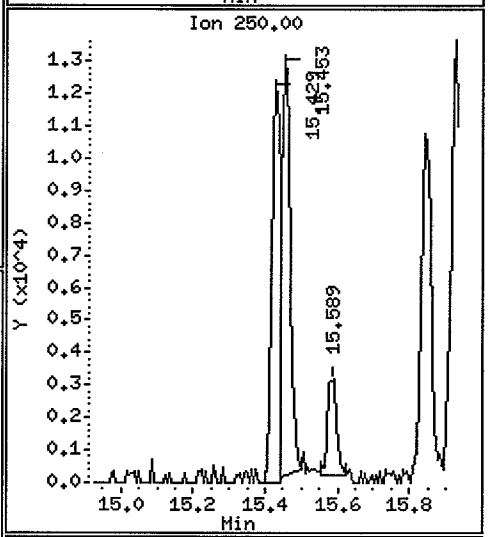


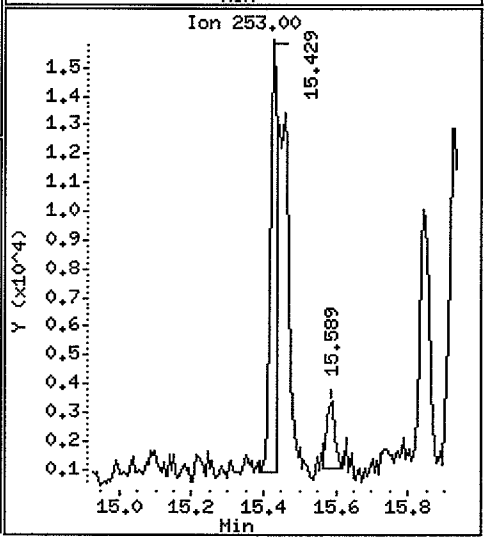












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

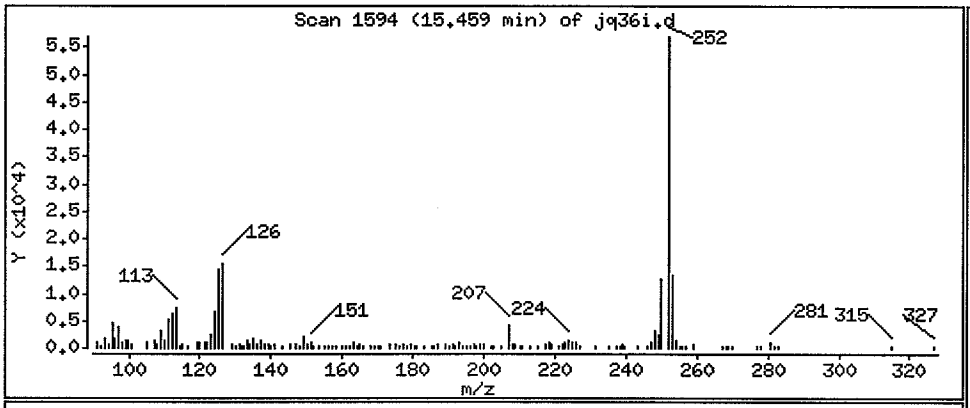
Client ID: T4-WB-01 Instrument: nt1.i

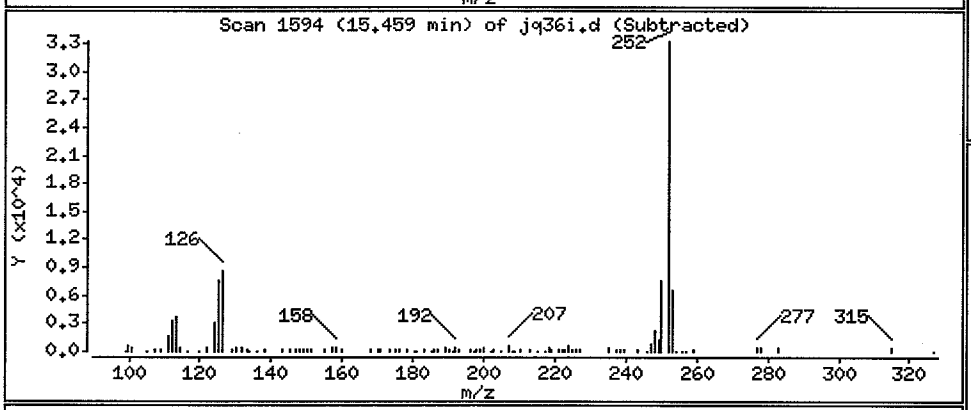
Sample Info: JQ36I,10

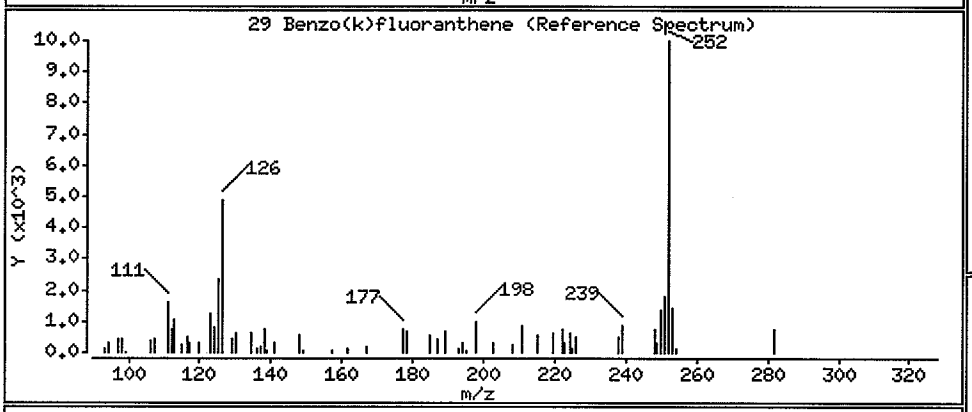
Volume Injected (uL): 1.0 Operator: VTS

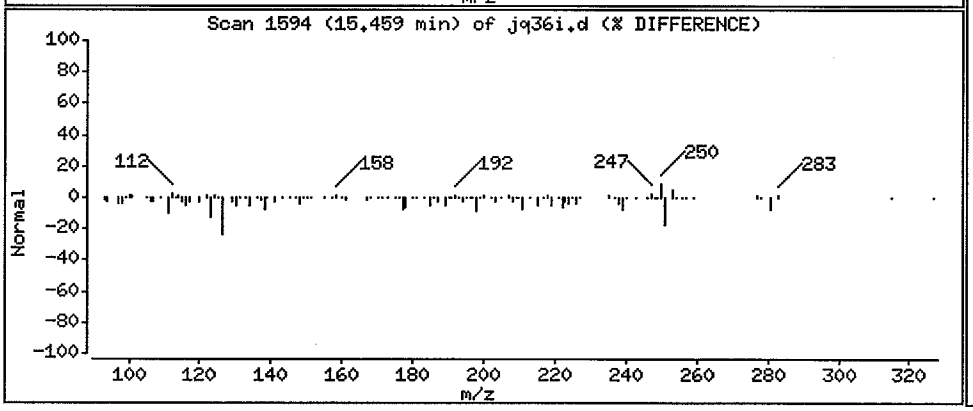
Column phase: ZB-5 Column diameter: 0.25

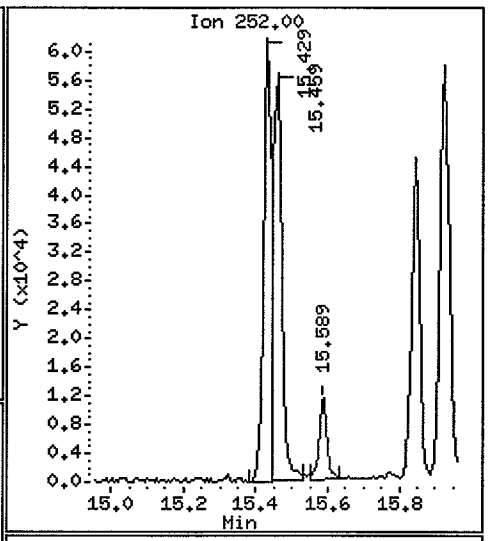
29 Benzo(k)fluoranthene Concentration: 321.0 ug/kg

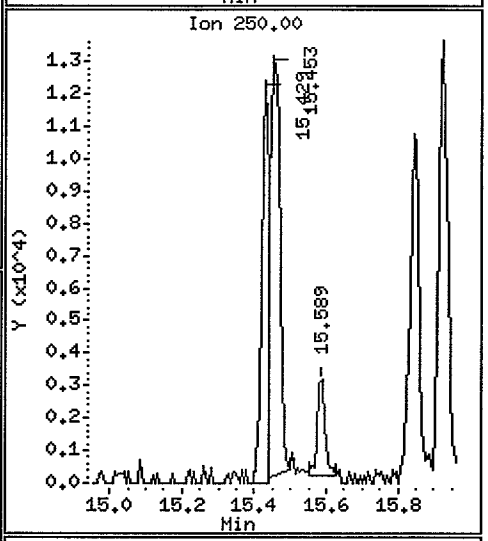


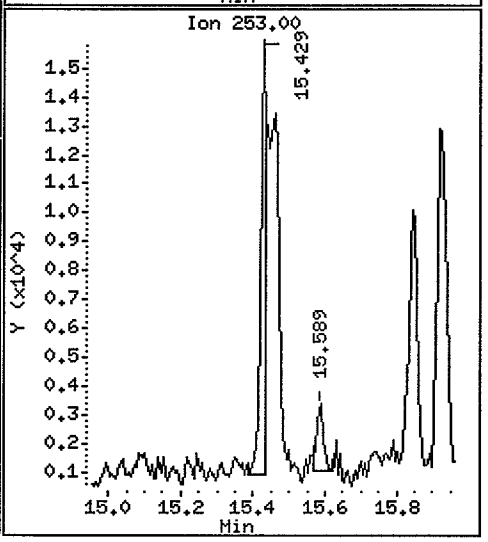












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

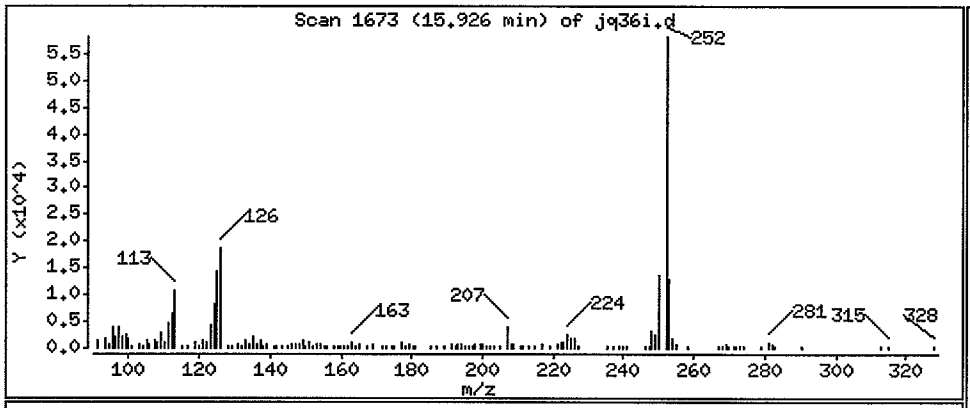
Operator: VTS

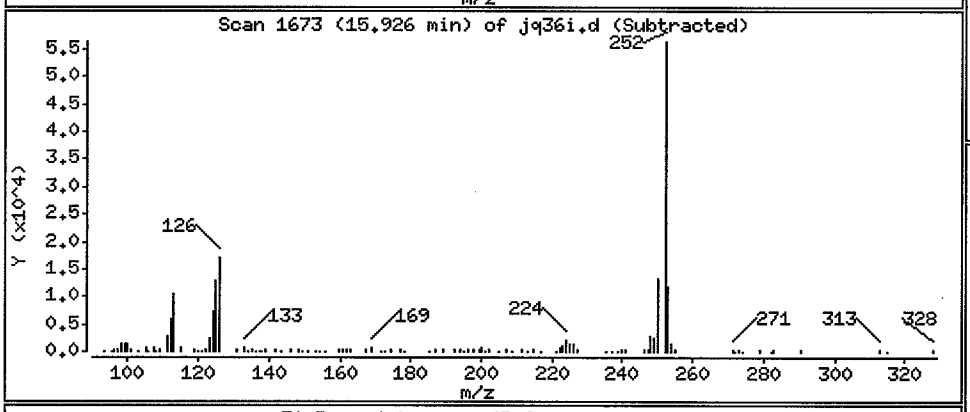
Column phase: ZB-5

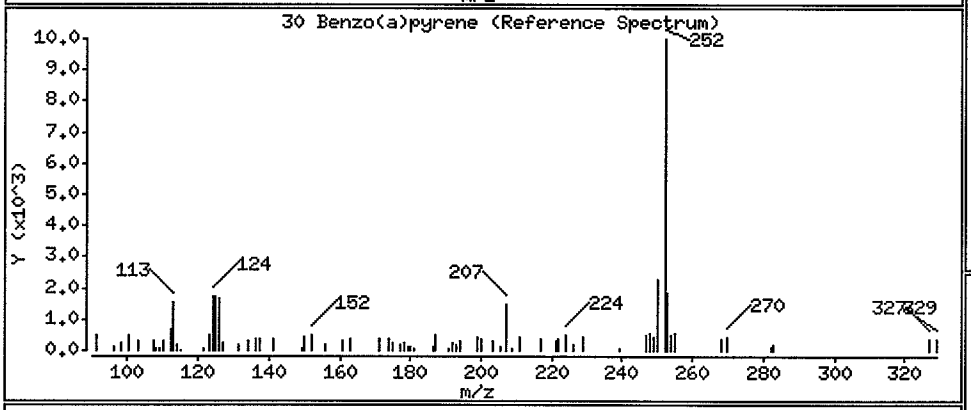
Column diameter: 0.25

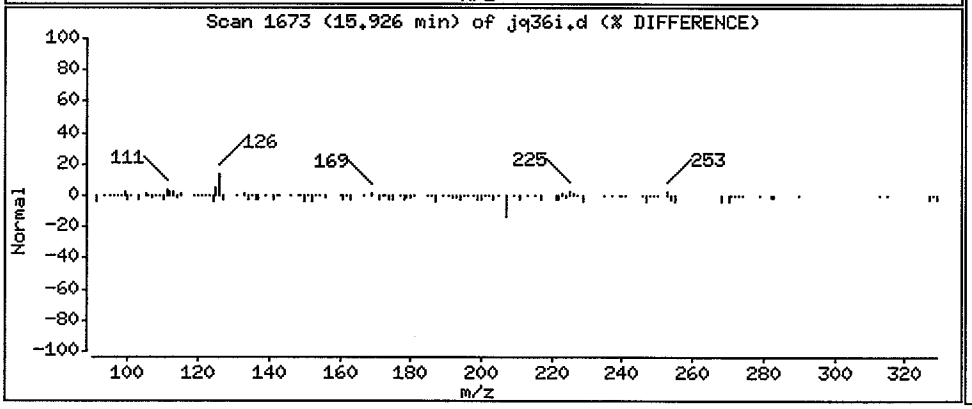
30 Benzo(a)pyrene

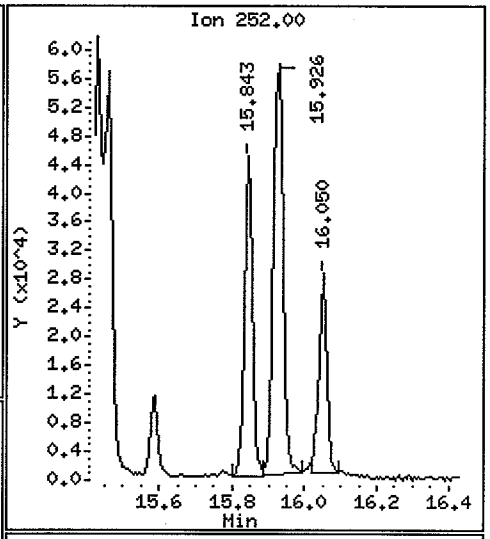
Concentration: 391.6 ug/kg

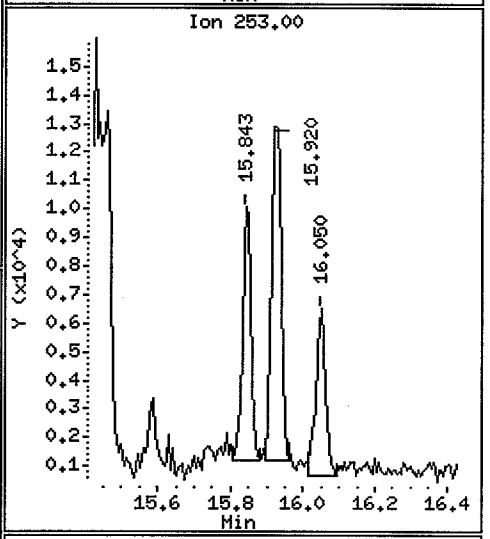


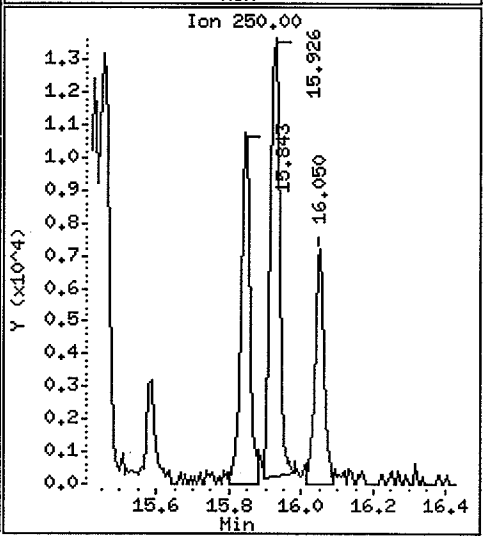












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

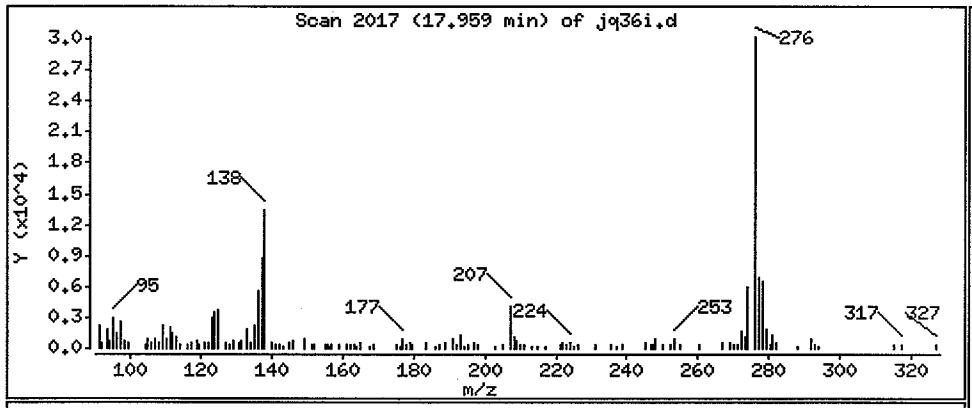
Operator: VTS

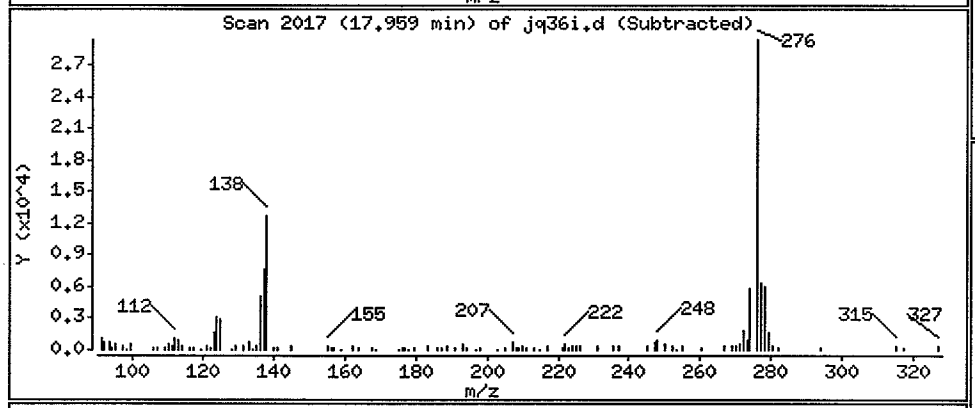
Column phase: ZB-5

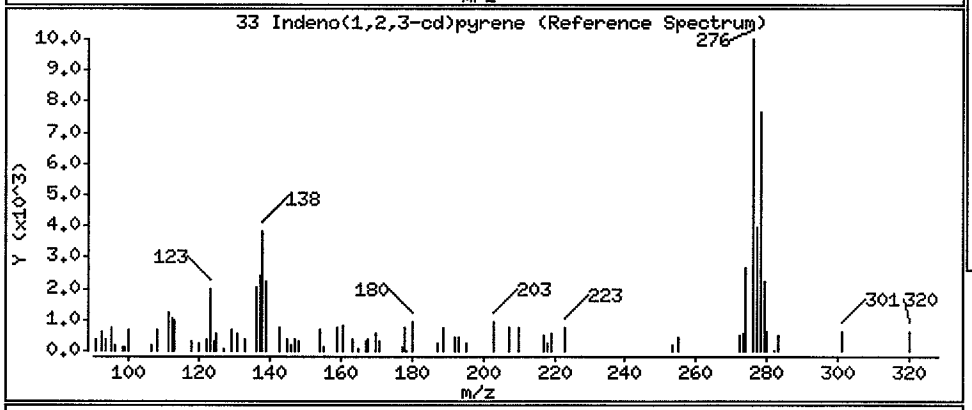
Column diameter: 0.25

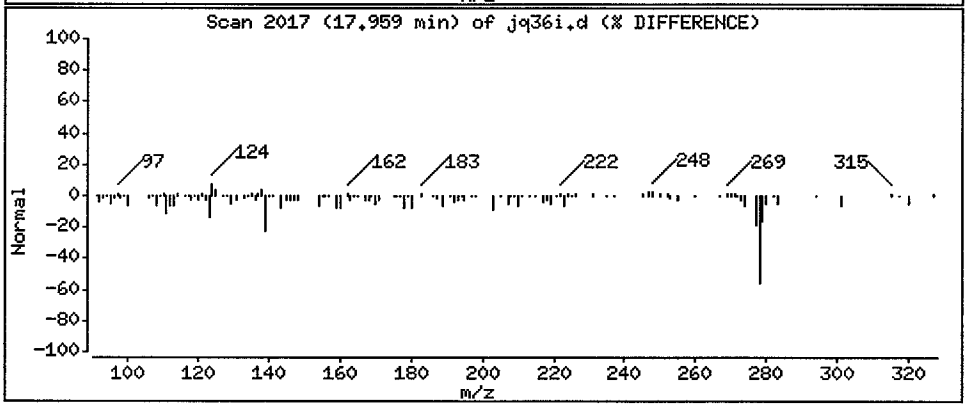
33 Indeno(1,2,3-cd)pyrene

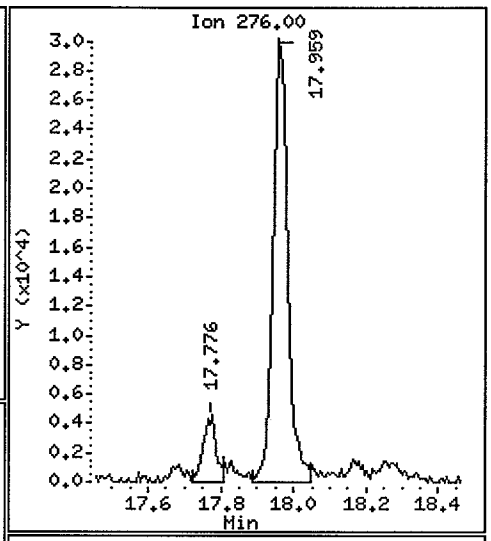
Concentration: 278.8 ug/kg

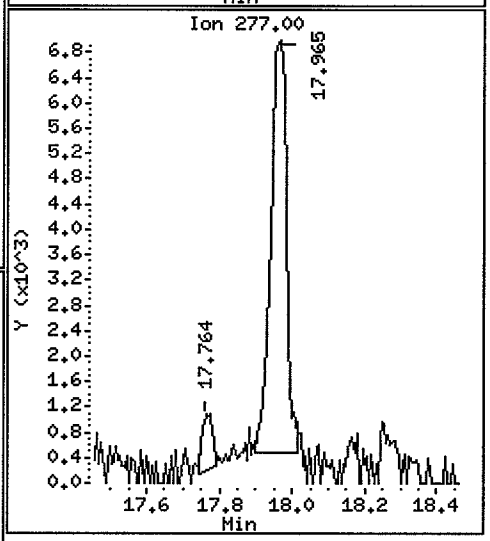












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

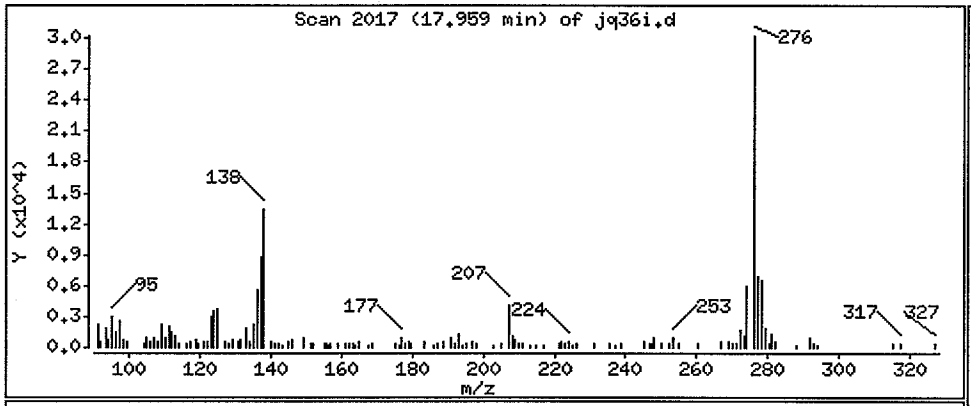
Operator: VTS

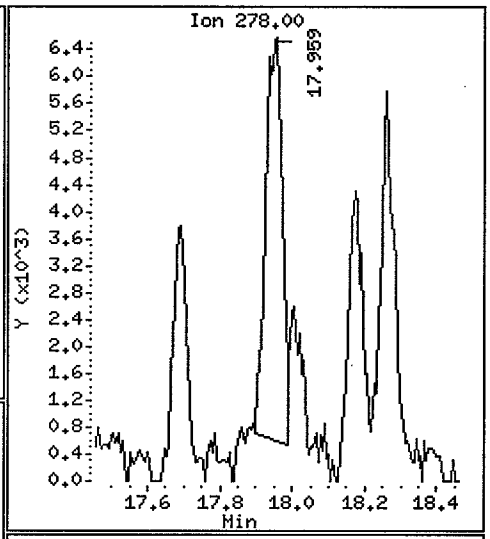
Column phase: ZB-5

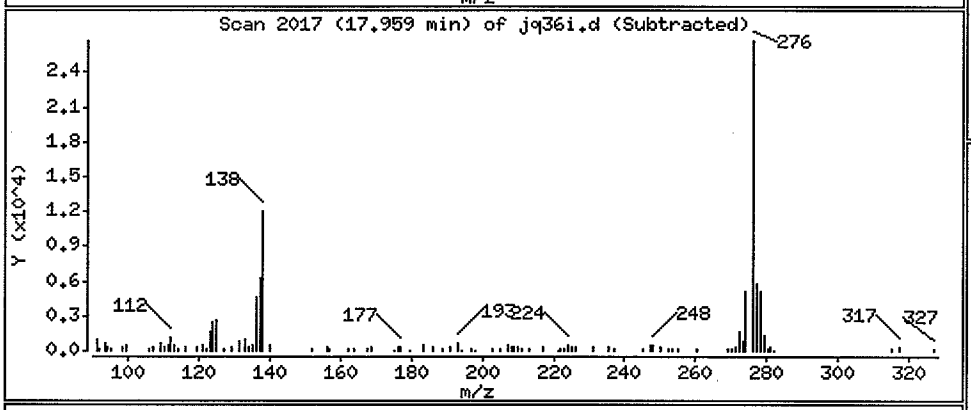
Column diameter: 0.25

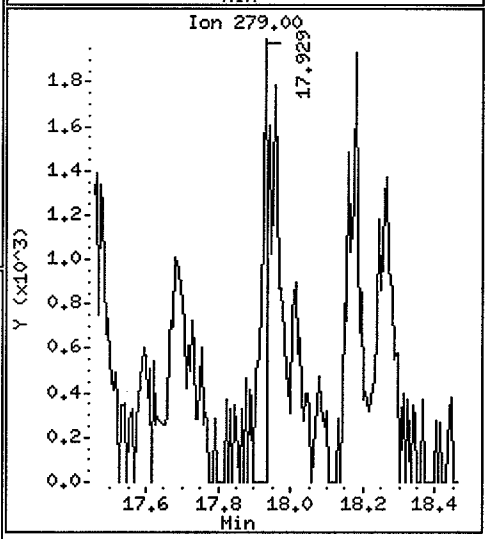
34 Dibenz(a,h)anthracene

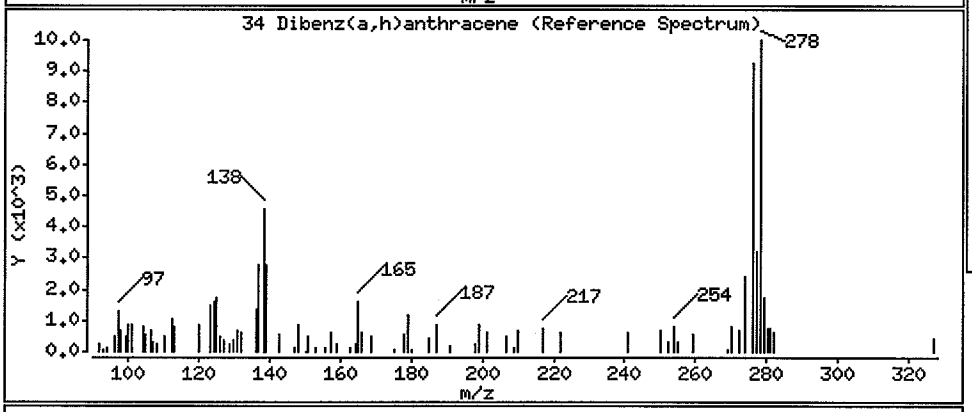
Concentration: 78.81 ug/kg

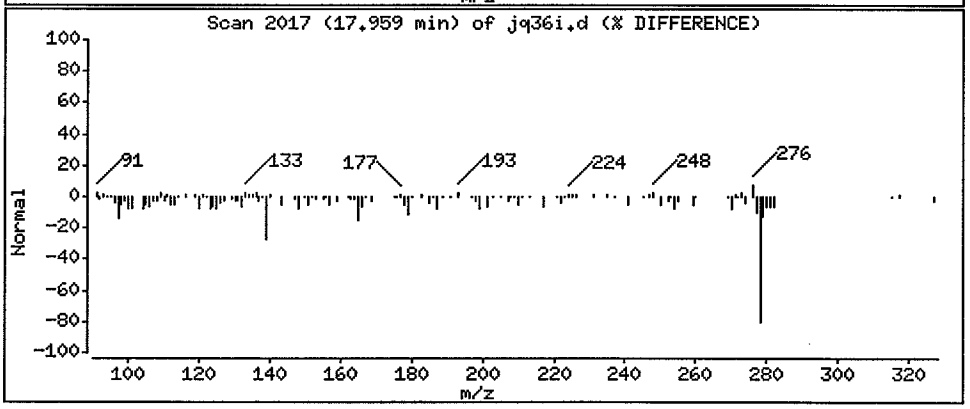












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

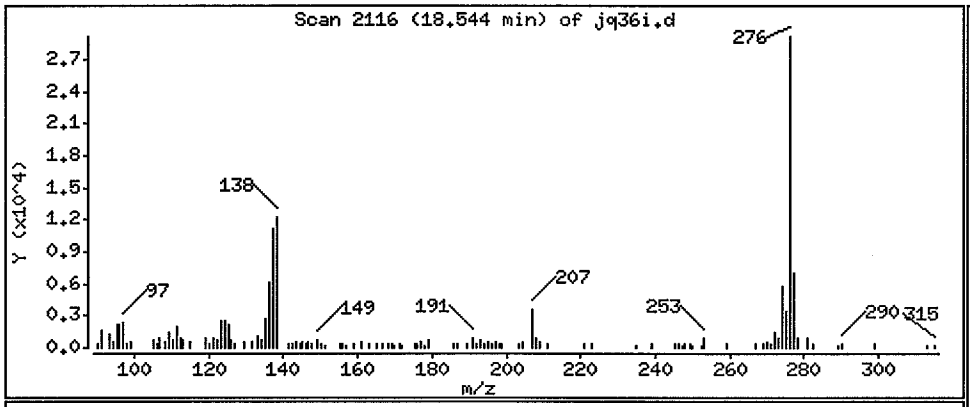
Operator: VTS

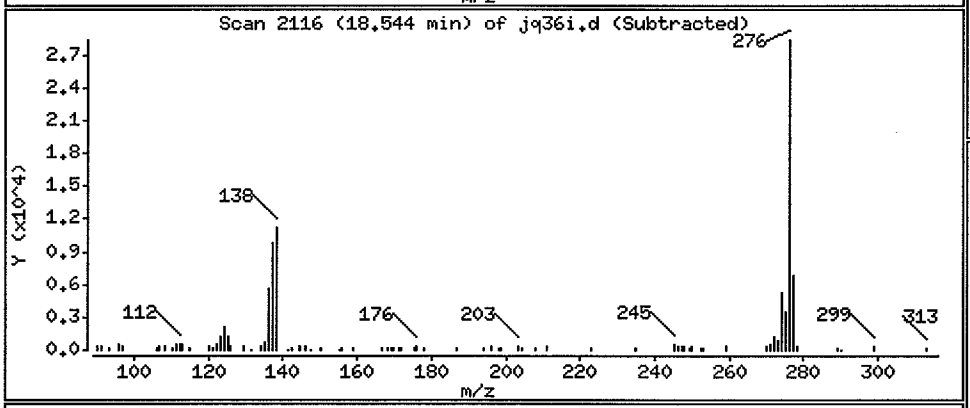
Column phase: ZB-5

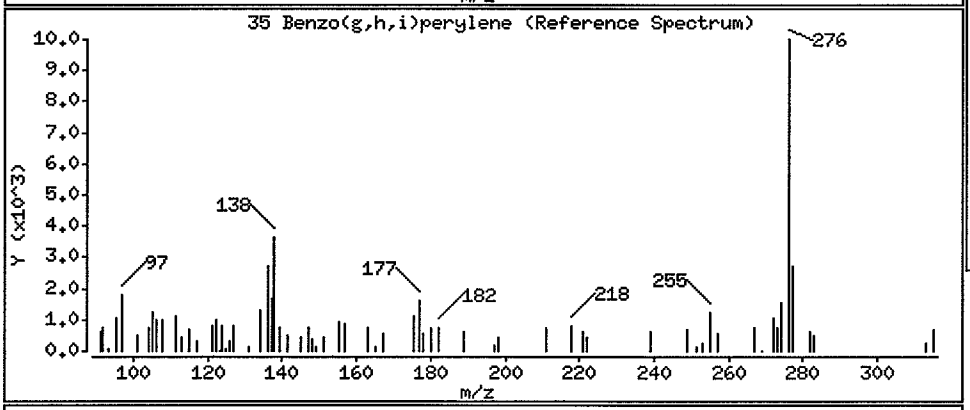
Column diameter: 0.25

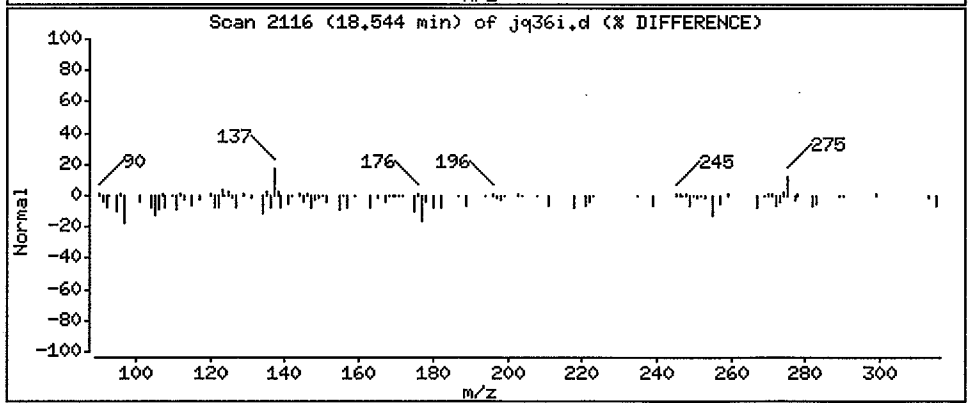
35 Benzo(g,h,i)perylene

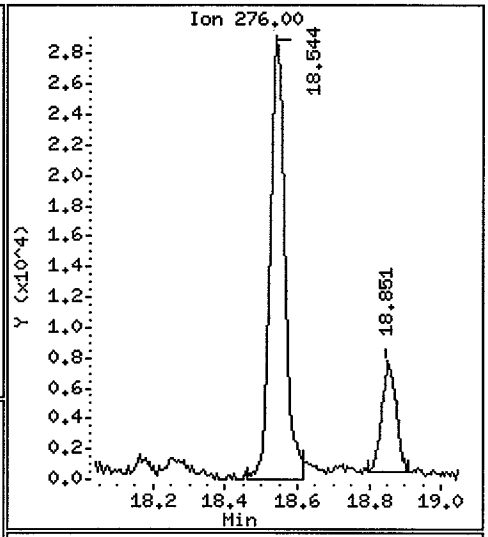
Concentration: 328.9 ug/kg

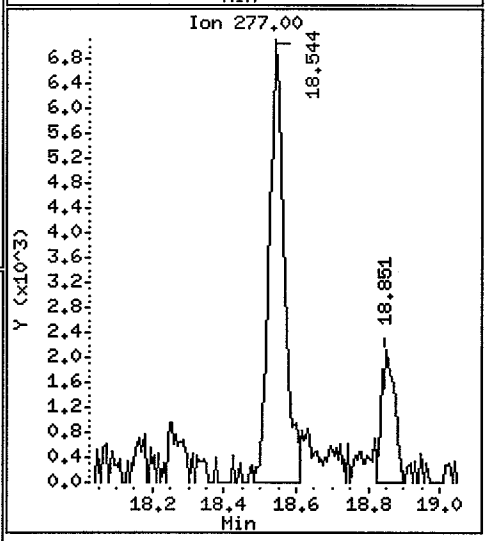












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

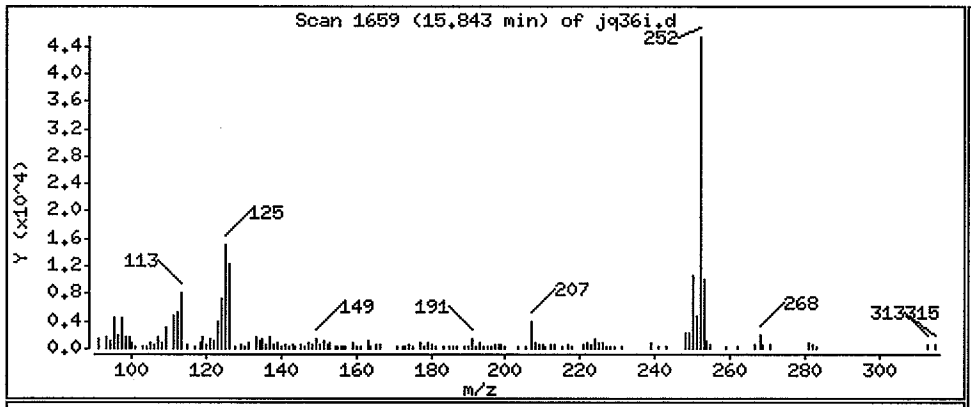
Operator: VTS

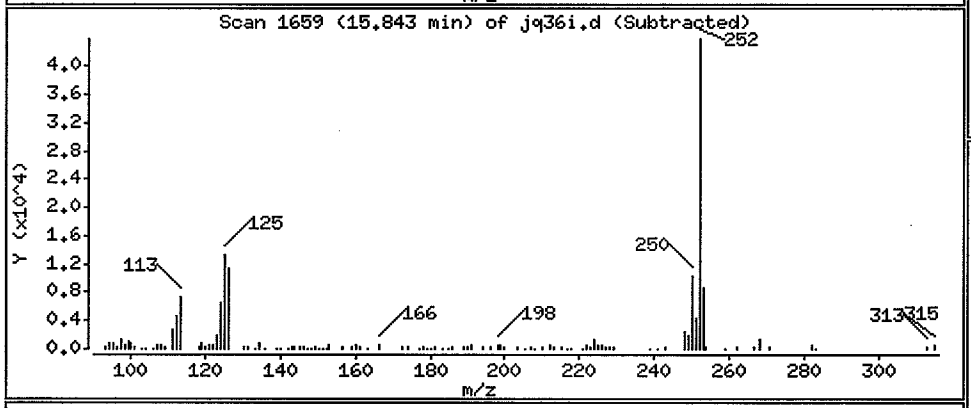
Column phase: ZB-5

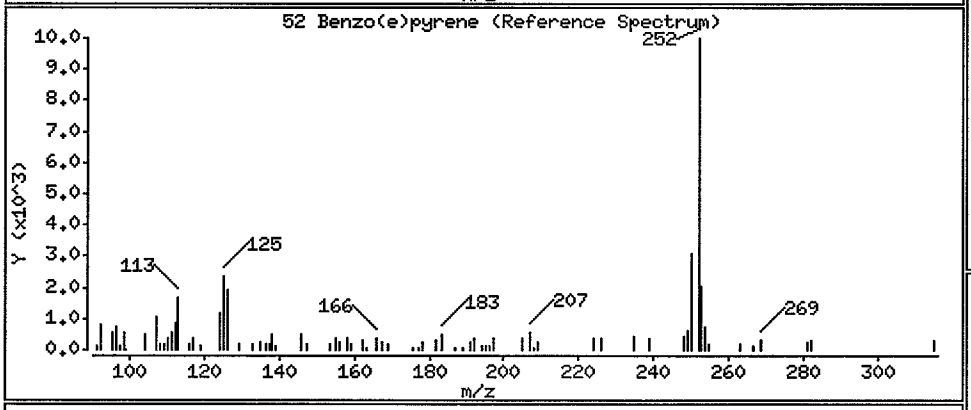
Column diameter: 0.25

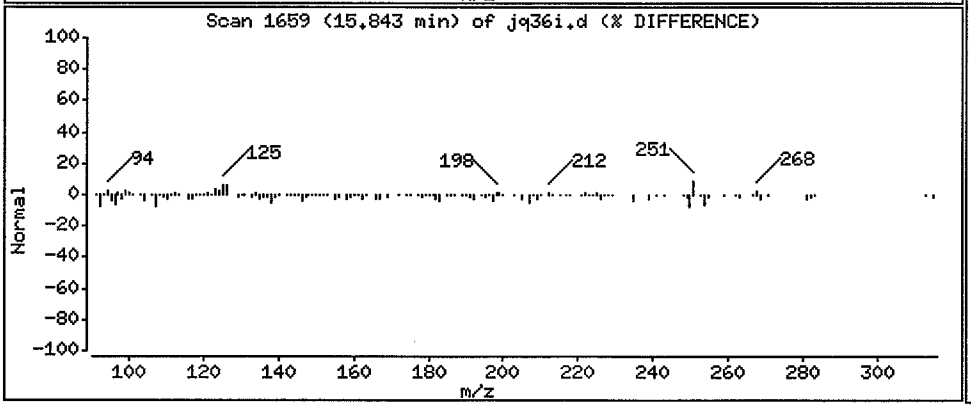
52 Benzo(e)pyrene

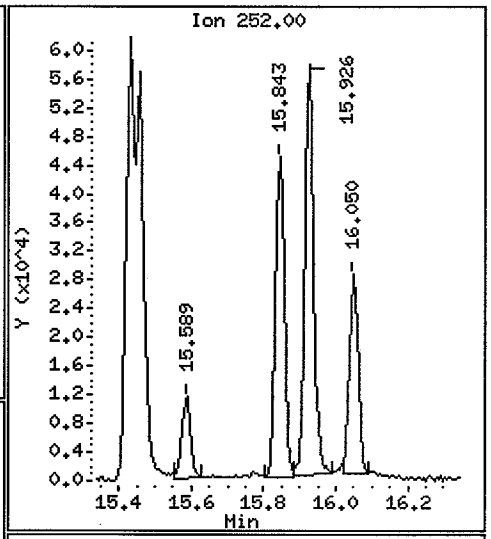
Concentration: 254.6 ug/kg

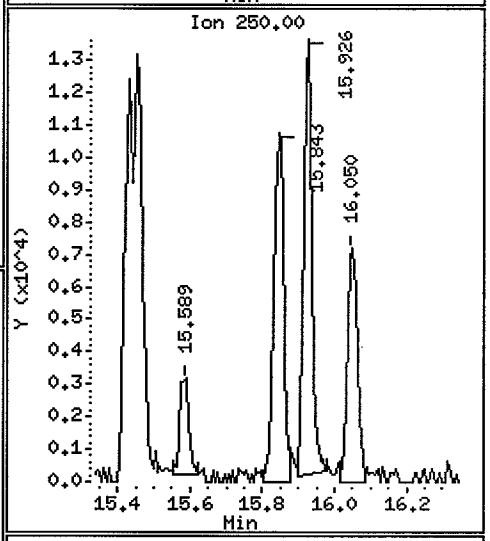


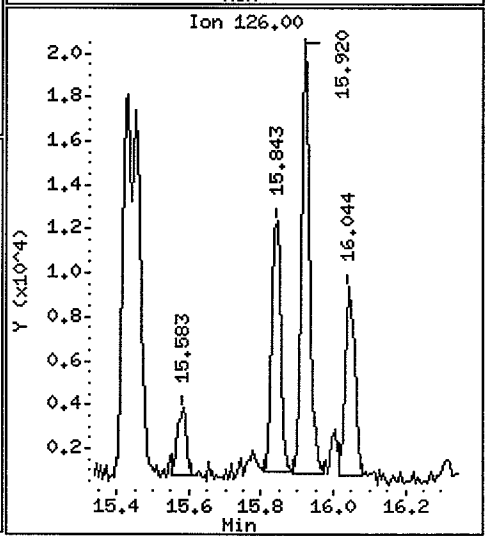












Data File: /chem3/nt1.i/20060809.b/jq36i.d

Date : 09-AUG-2006 14:21

Client ID: T4-WB-01

Instrument: nt1.i

Sample Info: JQ36I,10

Volume Injected (uL): 1.0

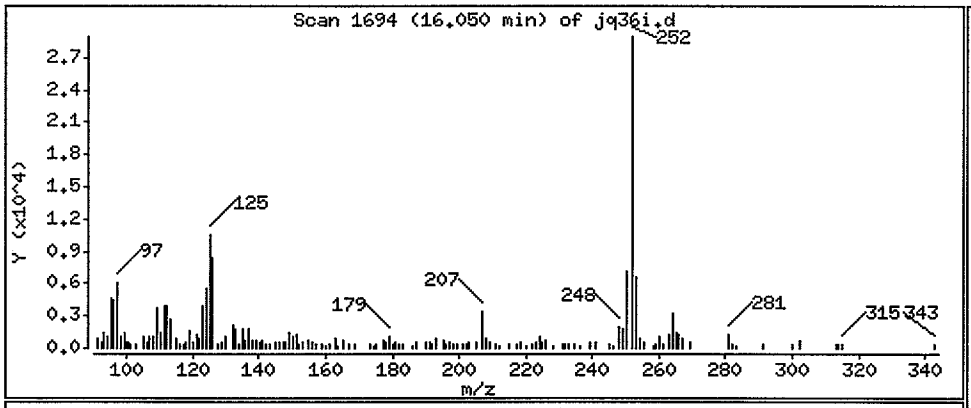
Operator: VTS

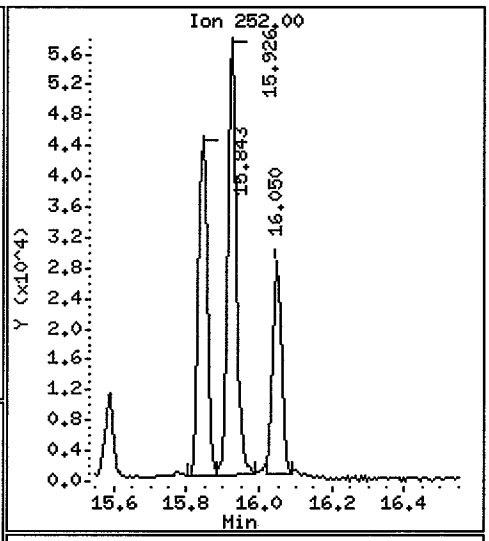
Column phase: ZB-5

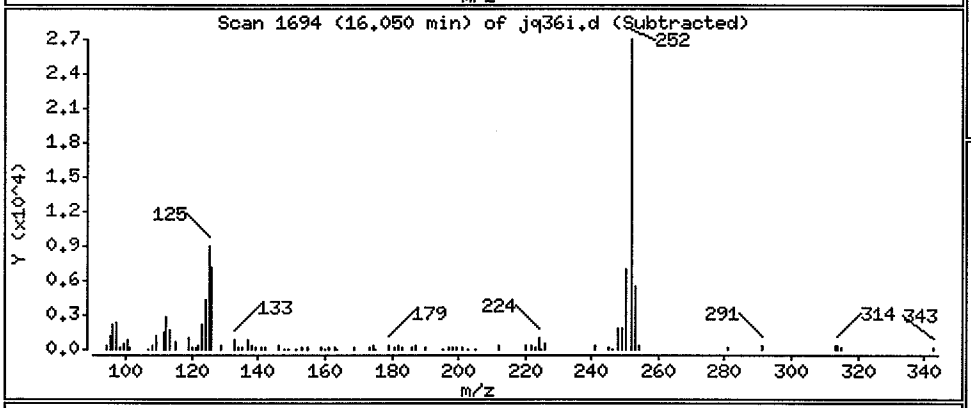
Column diameter: 0.25

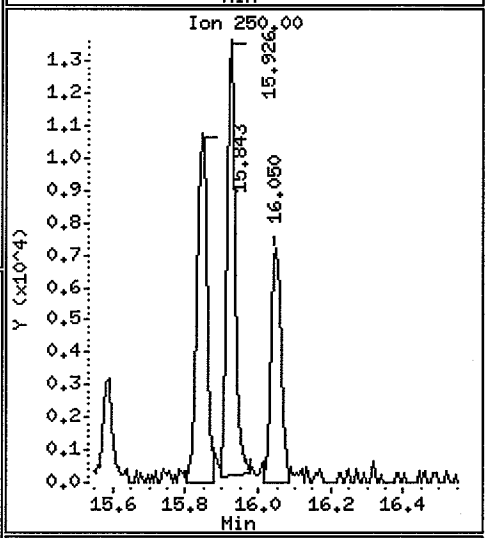
53 Perylene

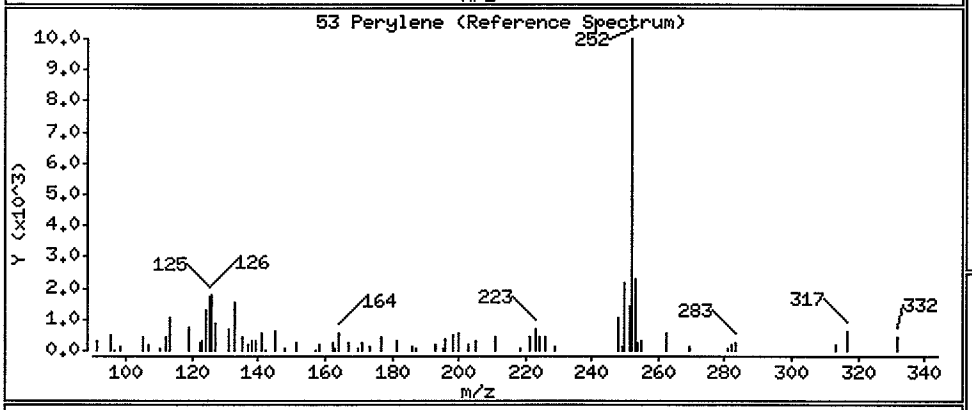
Concentration: 164.7 ug/kg

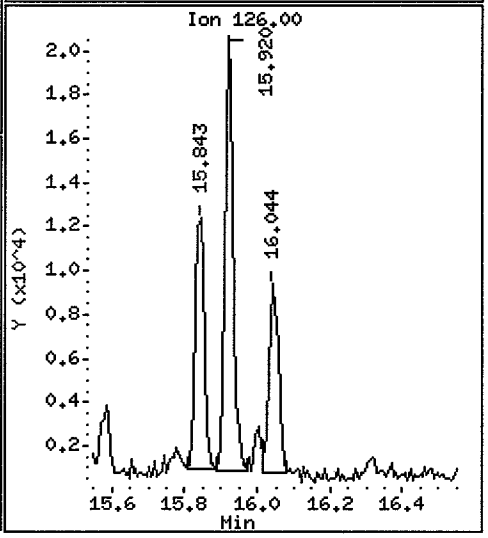


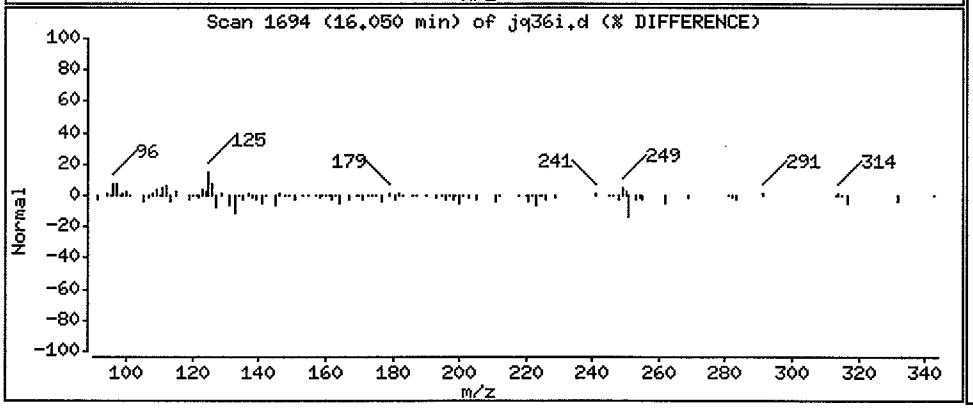












ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JQ36J
LIMS ID: 06-12981
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 19:10
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 40.8%
pH: 6.5

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	12
91-57-6	2-Methylnaphthalene	5.0	5.4
90-12-0	1-Methylnaphthalene	5.0	4.0 J
208-96-8	Acenaphthylene	5.0	13
83-32-9	Acenaphthene	5.0	8.4
86-73-7	Fluorene	5.0	8.9
85-01-8	Phenanthrene	5.0	96
120-12-7	Anthracene	5.0	25
206-44-0	Fluoranthene	5.0	280
129-00-0	Pyrene	5.0	290
56-55-3	Benzo(a)anthracene	5.0	120
218-01-9	Chrysene	5.0	190
205-99-2	Benzo(b)fluoranthene	5.0	160
207-08-9	Benzo(k)fluoranthene	5.0	150
50-32-8	Benzo(a)pyrene	5.0	190
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	81
53-70-3	Dibenz(a,h)anthracene	5.0	20
191-24-2	Benzo(g,h,i)perylene	5.0	94
198-55-0	Perylene	5.0	71
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	5.0
832-69-9	1-Methylphenanthrene	5.0	10
192-97-2	Benzo(e)pyrene	5.0	120
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	12

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracen	48.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36j.d
Lab Smp Id: JQ36J Client Smp ID: T4-WB-02
Inj Date : 10-AUG-2006 19:10
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36J
Misc Info : 06-12981
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 10
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	17.10000	Weight of sample extracted (g)
M	40.80000	% 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	6.871	6.874	(1.000)	300486	2.00000		
	2 Naphthalene	128	6.895	6.898	(1.003)	36225	0.24169	11.94	
$	3 2-Methylnaphthalene-d10	152	7.627	7.630	(1.110)	136953	1.76952	87.40	
	4 2-Methylnaphthalene	142	7.669	7.666	(1.116)	9948	0.11208	5.536	
	5 1-Methylnaphthalene	142	7.799	7.796	(1.135)	6997	0.07515	3.712	J
	7 Acenaphthylene	152	8.756	8.753	(0.980)	33110	0.26738	13.21	
*	8 Acenaphthene-d10	164	8.934	8.937	(1.000)	149361	2.00000		
	9 Acenaphthene	153	8.975	8.972	(1.005)	12177	0.16604	8.201	
	10 Dibenzofuran	168	9.164	9.161	(1.026)	9416	0.08716	4.305	J
	11 Fluorene	166	9.584	9.587	(1.073)	14907	0.17726	8.755	
*	15 Phenanthrene-d10	188	10.748	10.745	(1.000)	228372	2.00000		
	16 Phenanthrene	178	10.778	10.775	(1.003)	227677	1.94231	95.93	
	17 Anthracene	178	10.831	10.828	(1.008)	59824	0.51070	25.22	
	19 Fluoranthene	202	12.273	12.270	(1.142)	668683	5.59281	276.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.557	12.554	(0.893)	829176	5.89849	291.3
	22 Benzo(a)anthracene	228	14.040	14.037	(0.999)	332545	2.52253	124.6
*	23 Chrysene-d12	240	14.058	14.055	(1.000)	218919	2.00000	
	24 Chrysene	228	14.093	14.090	(1.003)	470402	3.86863	191.1
	28 Benzo(b)fluoranthene	252	15.435	15.426	(0.964)	404985	3.15436	155.8
	29 Benzo(k)fluoranthene	252	15.458	15.455	(0.965)	419211	3.06273	151.3
	30 Benzo(a)pyrene	252	15.931	15.916	(0.995)	475289	3.79920	187.6
*	31 Perylene-d12	264	16.014	15.999	(1.000)	227488	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.976	17.949	(1.123)	234833	1.63228	80.62
$	32 Dibenz(a,h)anthrancene-d14	292	17.893	17.873	(1.117)	125635	1.44310	71.28
	34 Dibenz(a,h)anthracene	278	17.952	17.944	(1.121)	46764	0.39789	19.65
	35 Benzo(g,h,i)perylene	276	18.555	18.529	(1.159)	225727	1.88749	93.23
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.402	8.399	(0.940)	7531	0.10361	5.118
	50 2,3,5-Trimethylnaphthalene	170	9.412	9.421	(1.054)	15127	0.25409	12.55
	51 1-Methylphenanthrene	192	11.546	11.549	(0.821)	18791	0.20970	10.36
	52 Benzo(e)pyrene	252	15.848	15.840	(0.990)	339044	2.44835	120.9
	53 Perylene	252	16.049	16.040	(1.002)	186217	1.43220	70.74

VTS
8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36j.d
Lab Smp Id: JQ36J
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12981

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-WB-02
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	300486	18.67
8 Acenaphthene-d10	122198	61099	244396	149361	22.23
15 Phenanthrene-d10	181565	90782	363130	228372	25.78
23 Chrysene-d12	143956	71978	287912	218919	52.07
31 Perylene-d12	157395	78698	314790	227488	44.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.04
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.03
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.03
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.02
31 Perylene-d12	16.00	15.50	16.50	16.01	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.

Analytical Resources, Inc.

RECOVERY REPORT

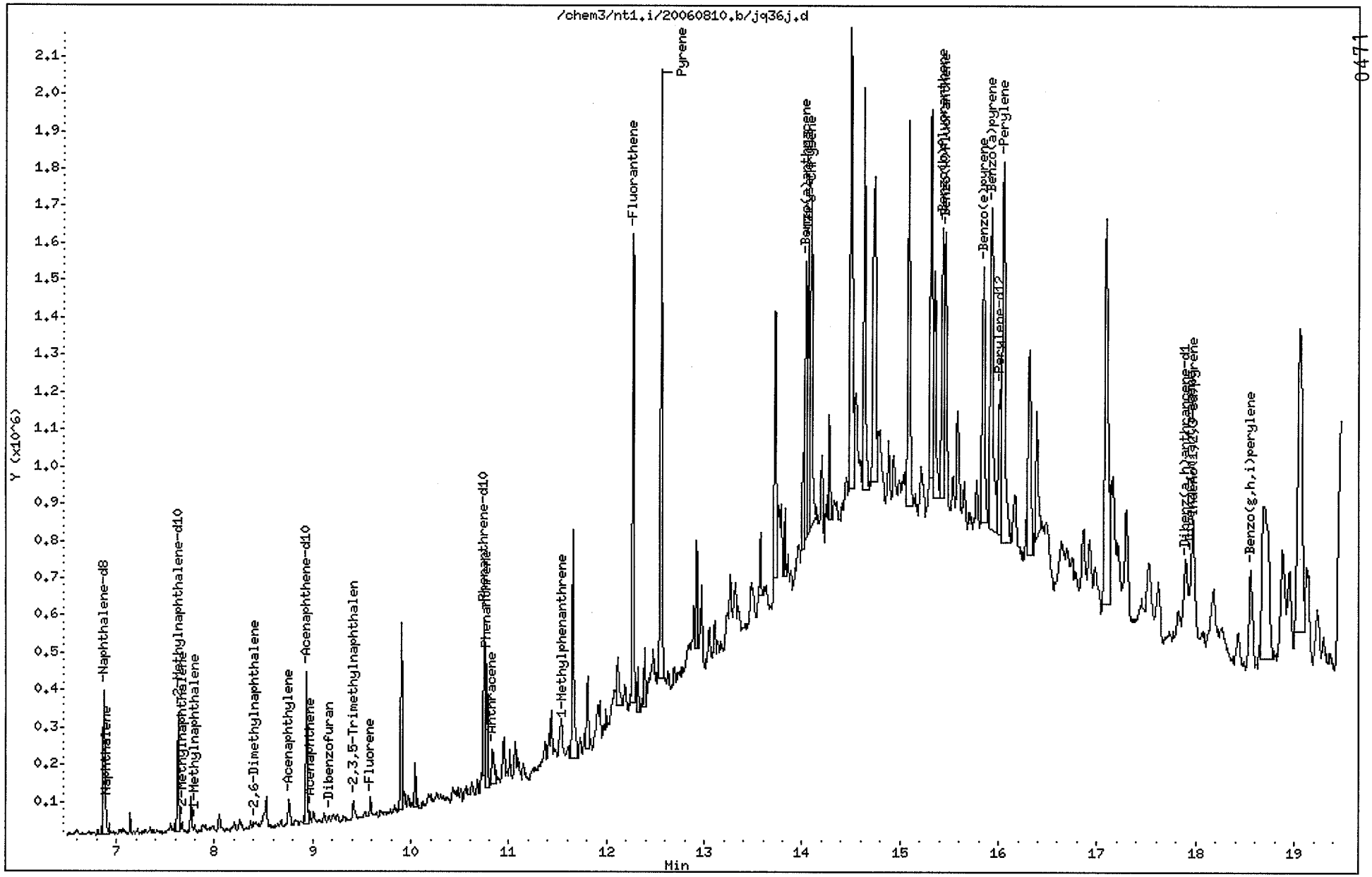
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36J
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12981

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-WB-02
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.2	87.40	58.98	32-97
$ 32 Dibenz(a,h)anthran	148.2	71.28	48.10	21-105

Data File: /chem3/nt1.i/20060810.b/jq36j.d
Date : 10-AUG-2006 19:10
Client ID: T4-WB-02
Sample Info: JQ36J
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

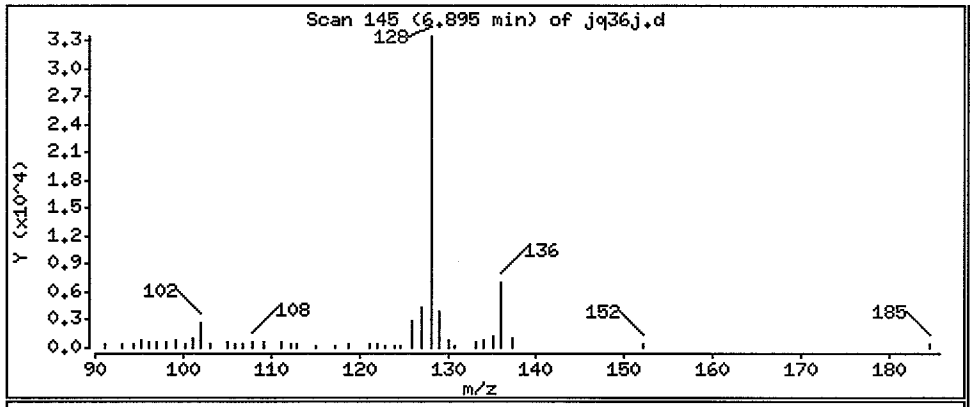
Operator: VTS

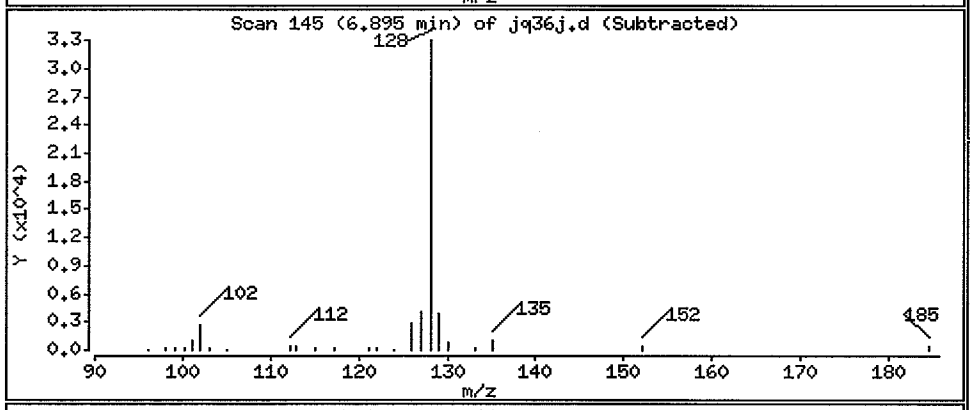
Column phase: ZB-5

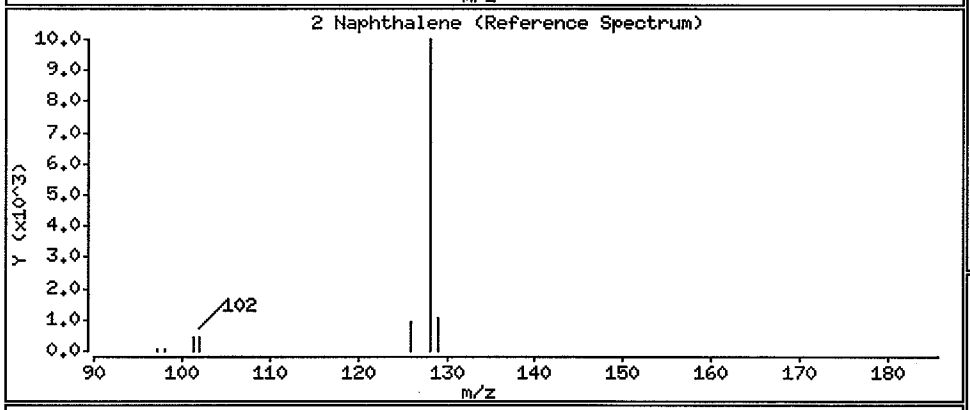
Column diameter: 0.25

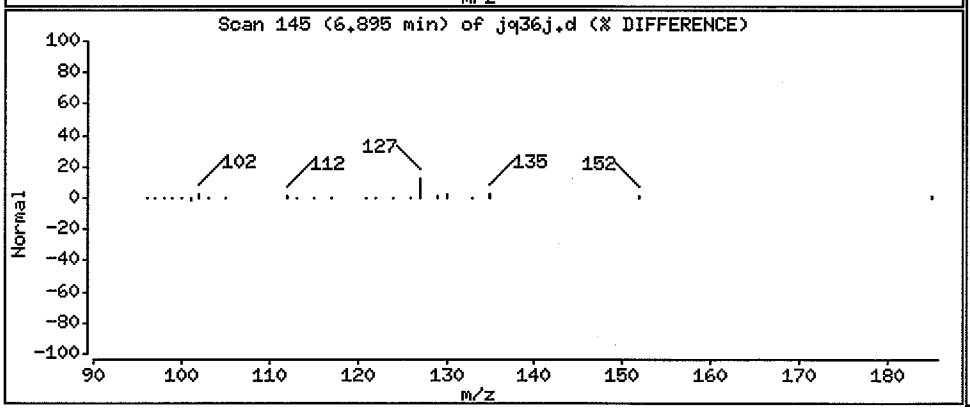
2 Naphthalene

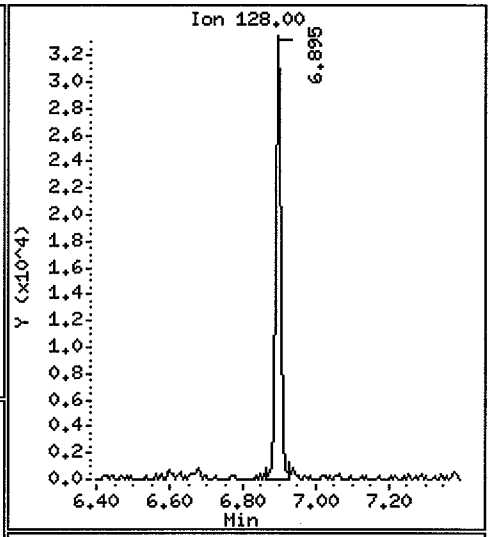
Concentration: 11.94 ug/kg

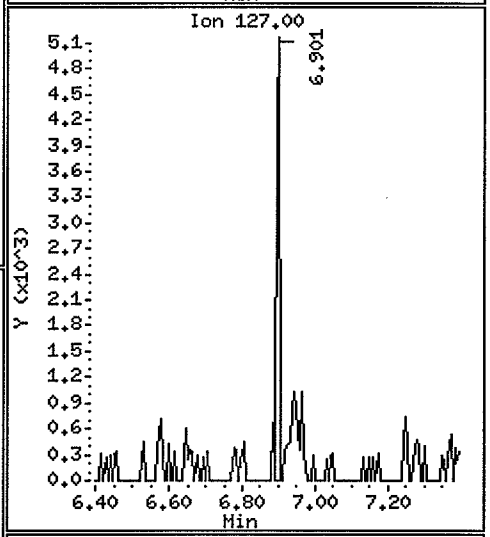


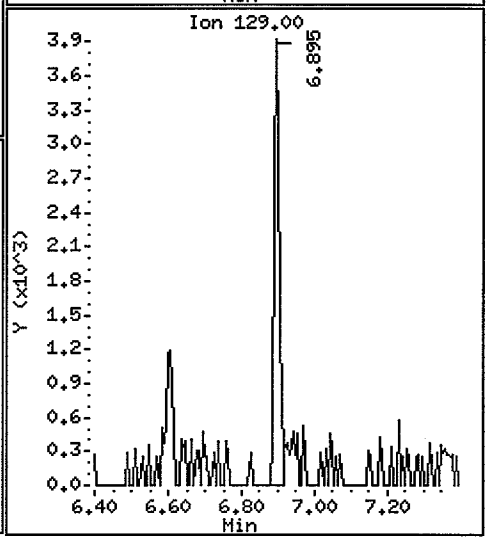












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

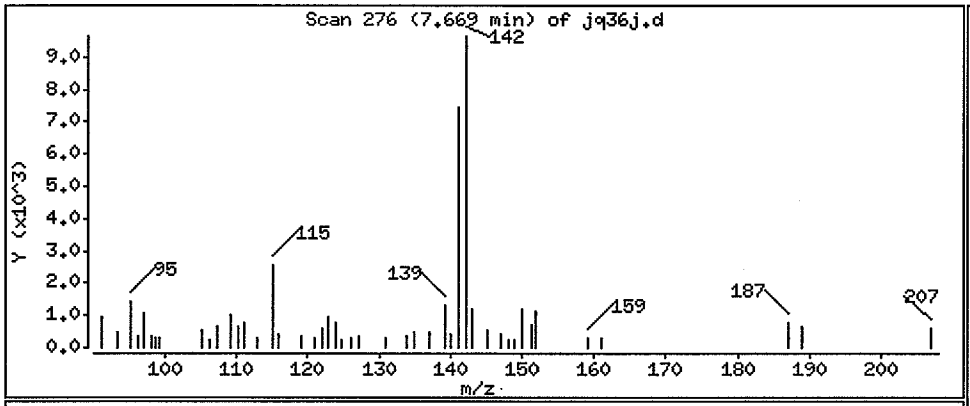
Operator: VTS

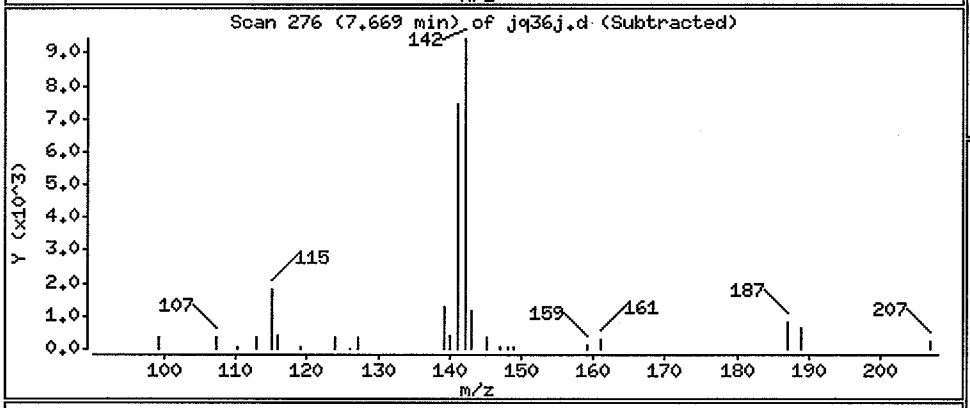
Column phase: ZB-5

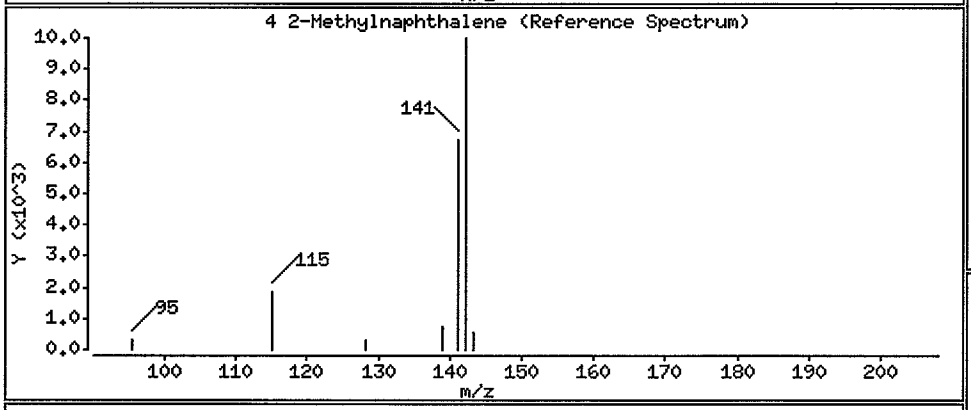
Column diameter: 0.25

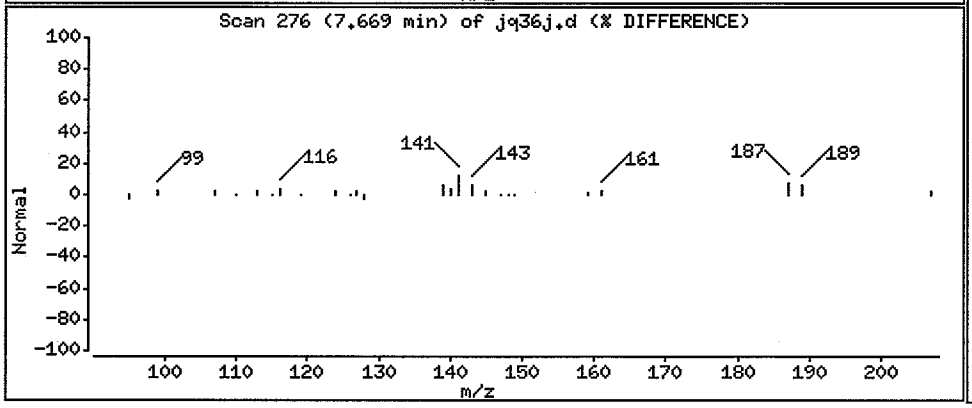
4 2-Methylnaphthalene

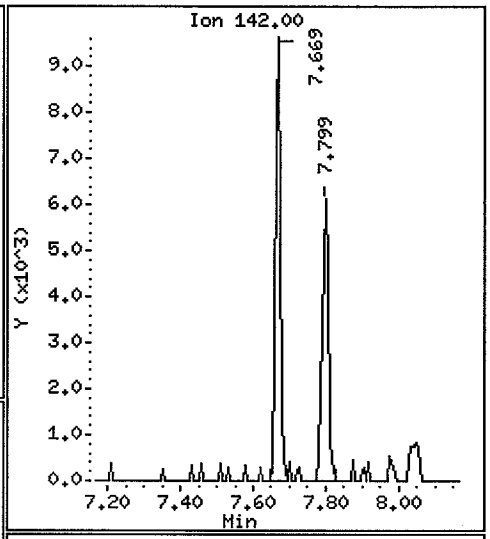
Concentration: 5.536 ug/kg

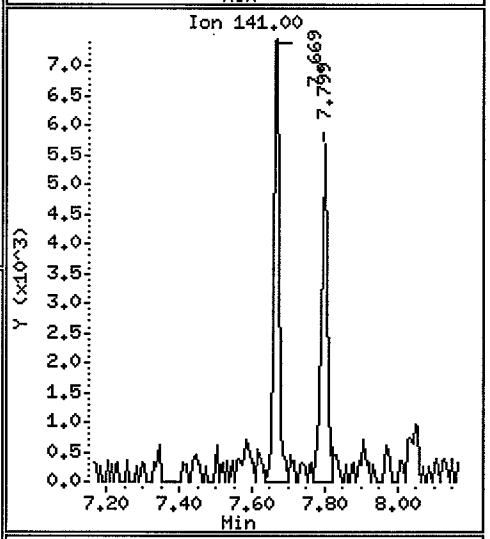


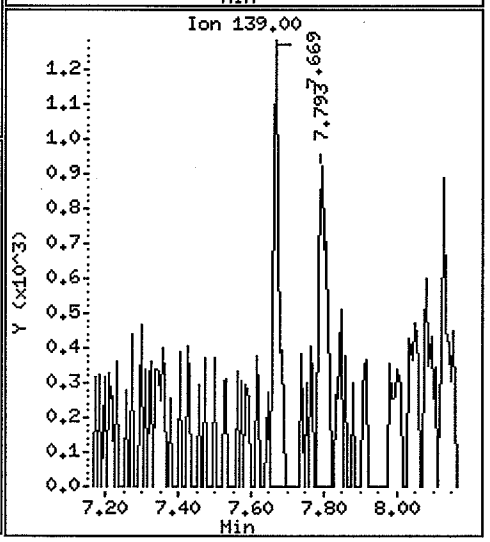












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

Operator: VTS

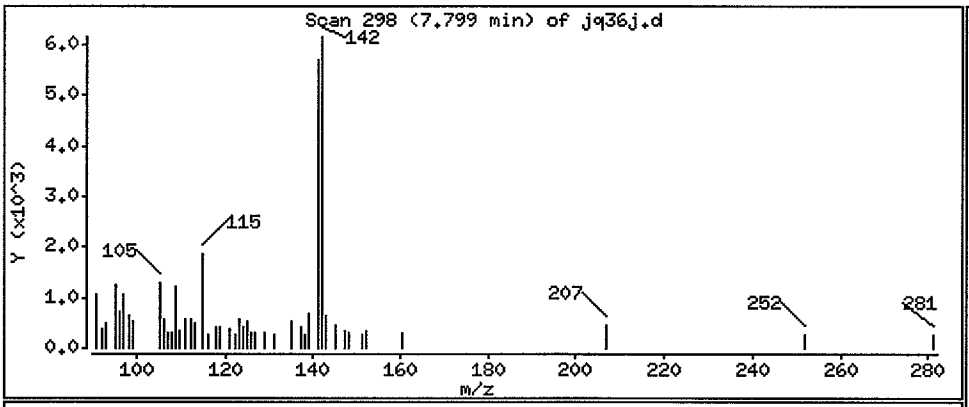
Column phase: ZB-5

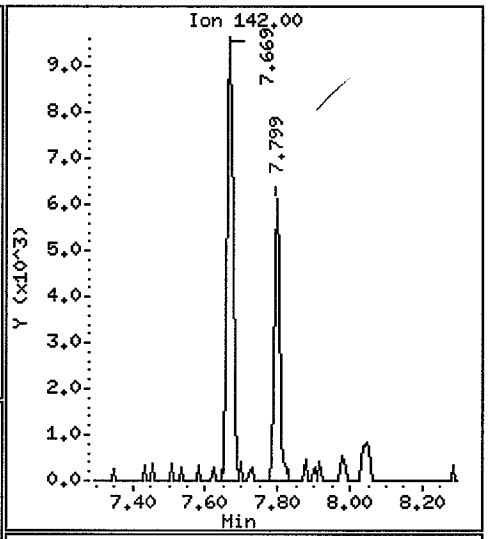
Column diameter: 0.25

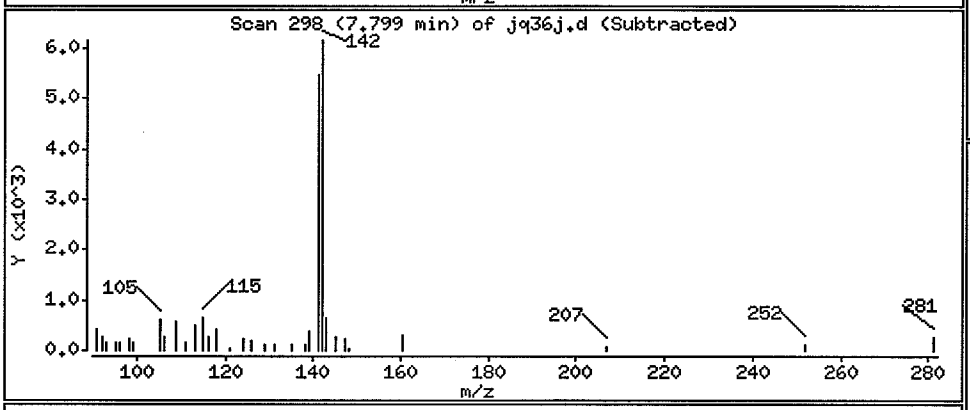
5 1-Methylnaphthalene

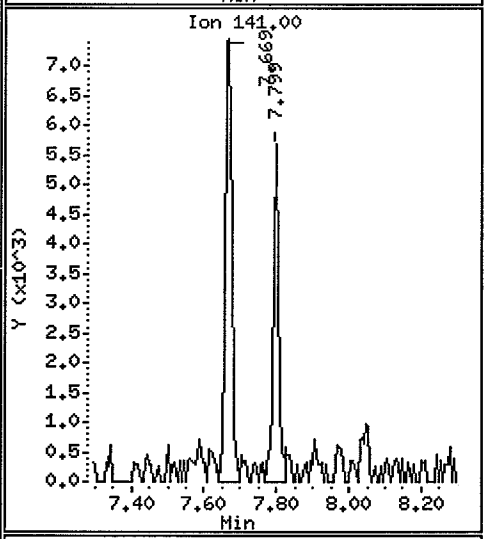
Concentration: 3.712 ug/kg

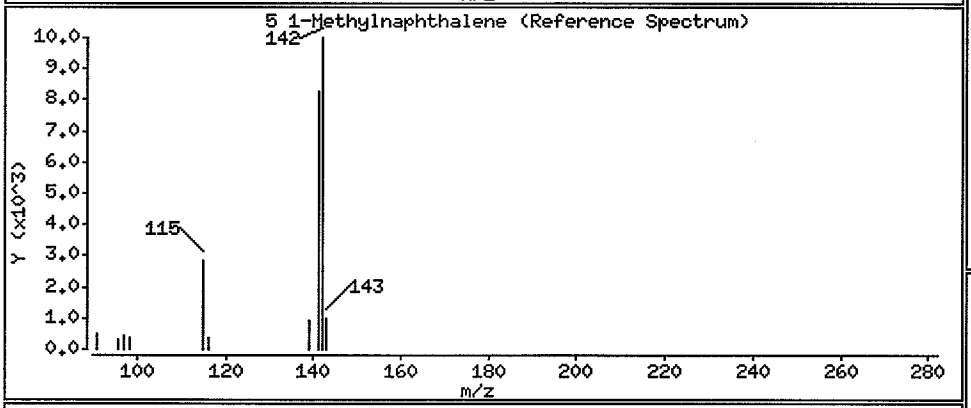
JCL

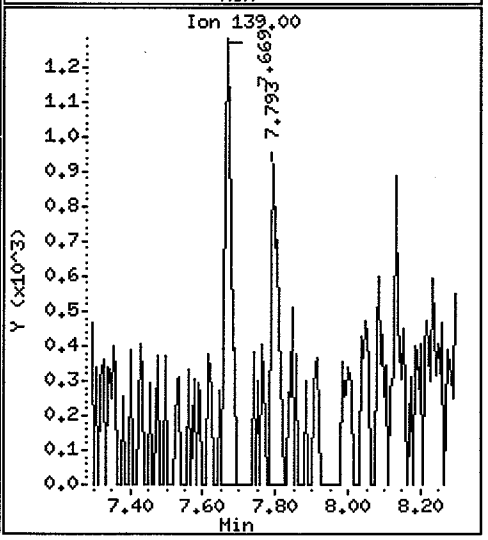


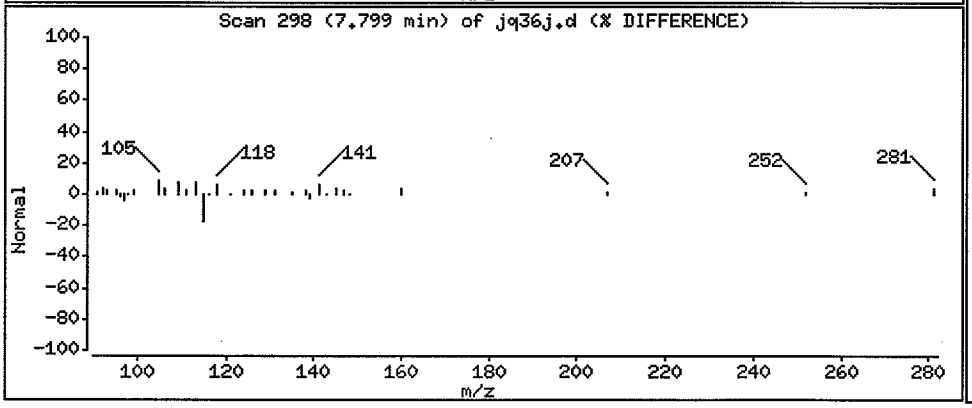












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

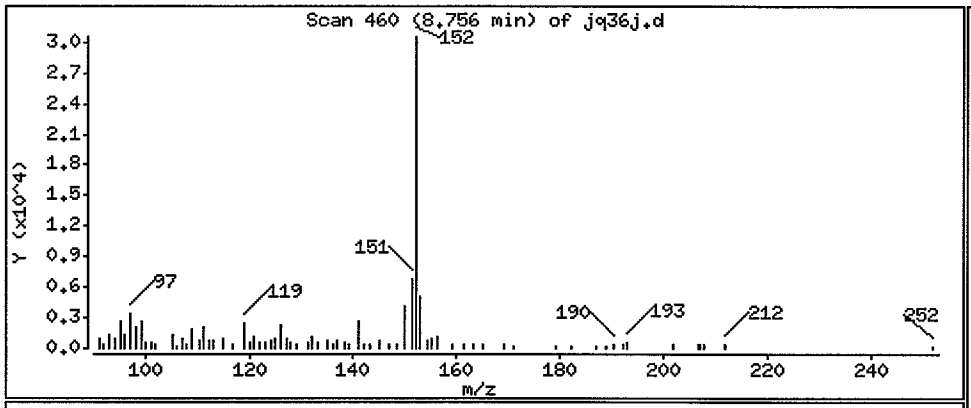
Operator: VTS

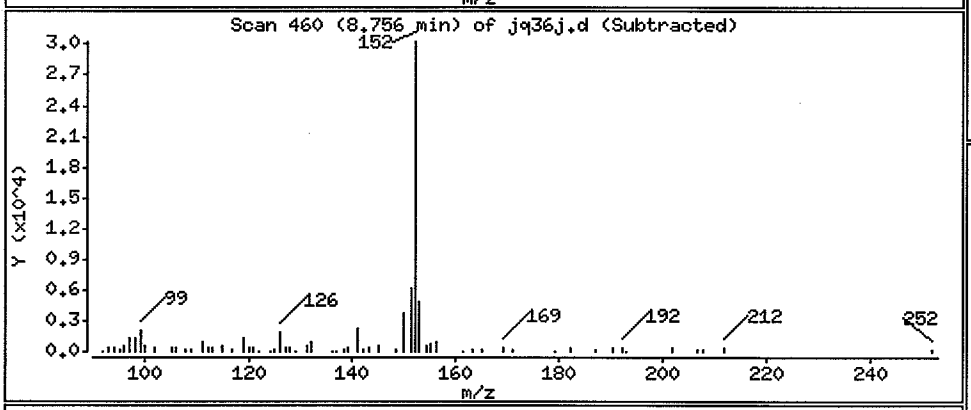
Column phase: ZB-5

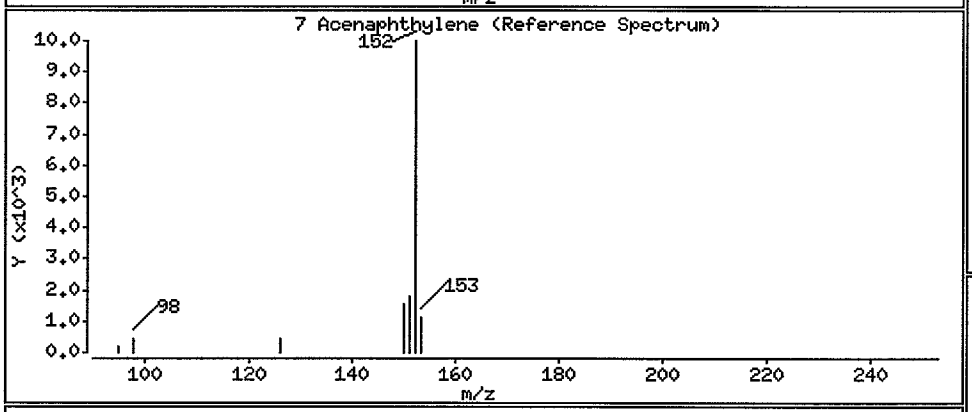
Column diameter: 0.25

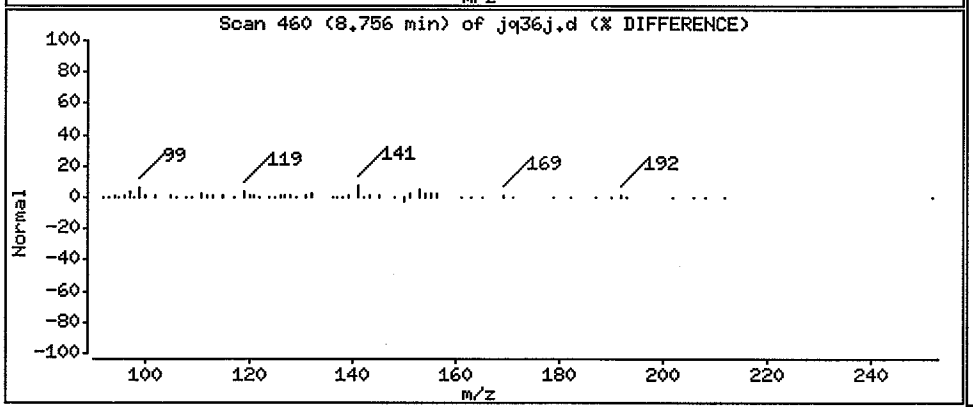
7 Acenaphthylene

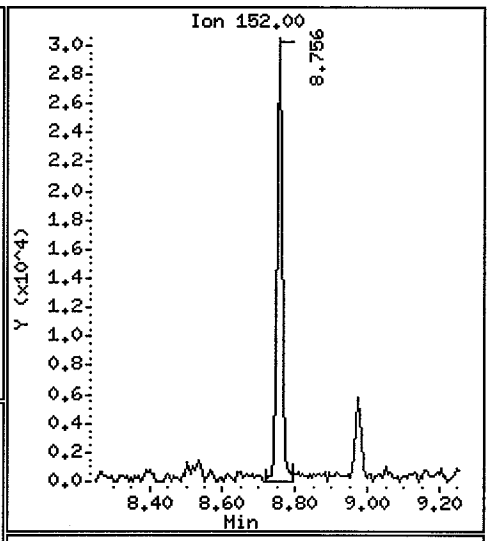
Concentration: 13.21 ug/kg

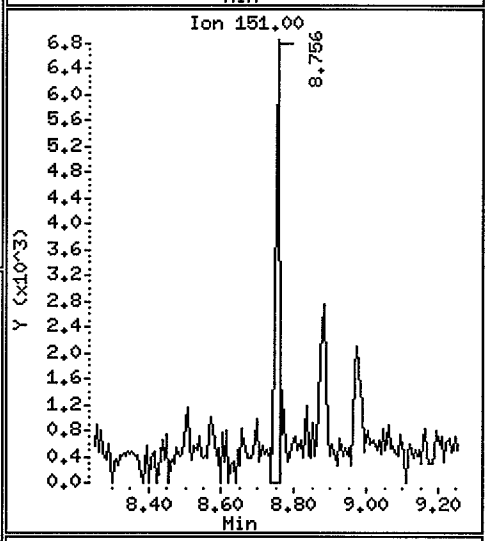


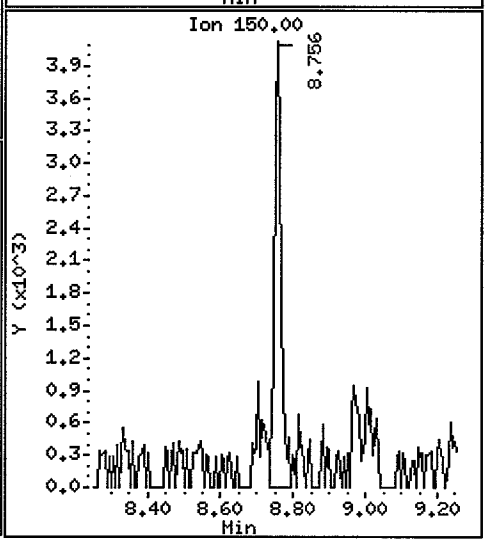












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

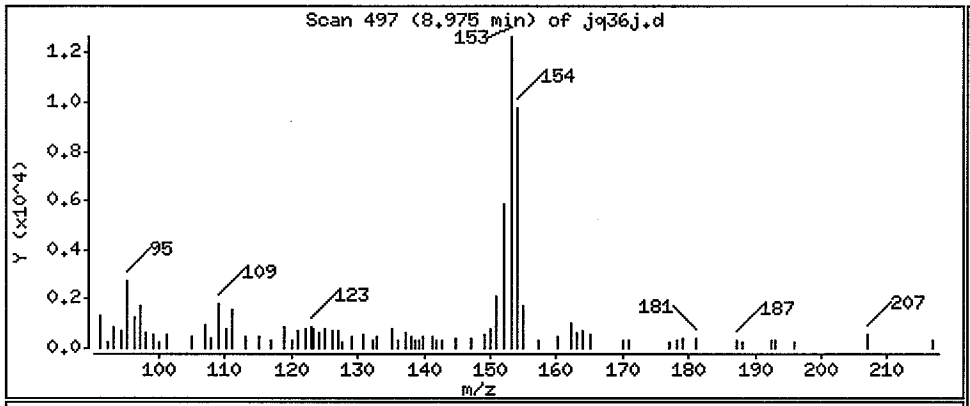
Operator: VTS

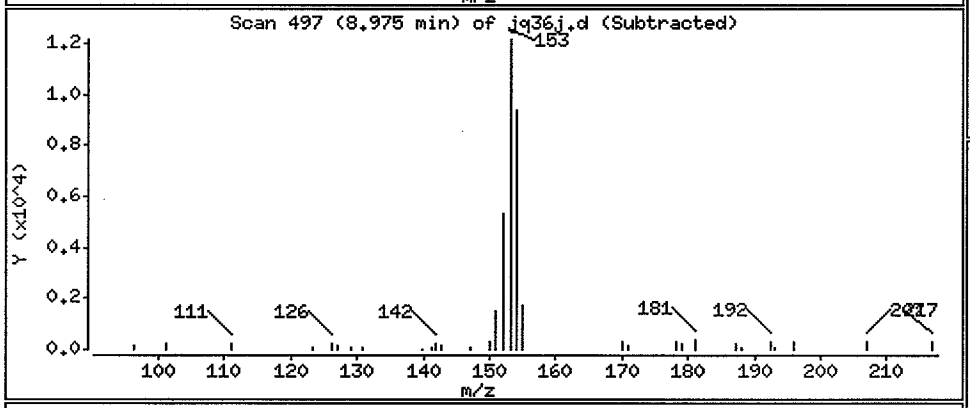
Column phase: ZB-5

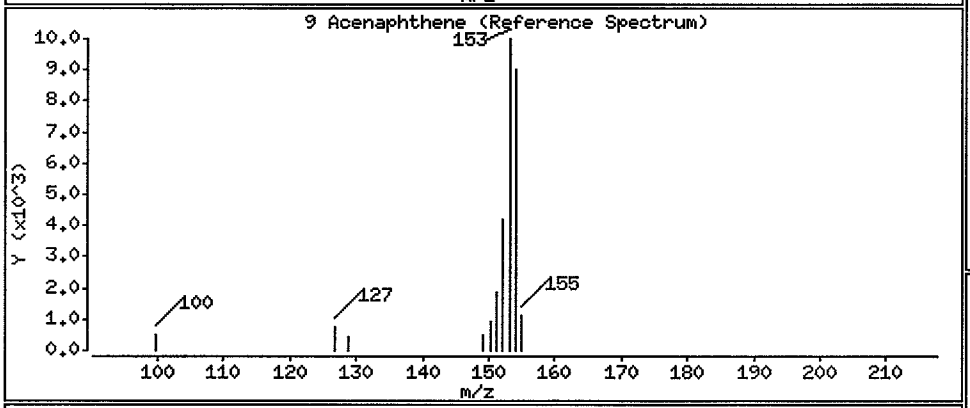
Column diameter: 0.25

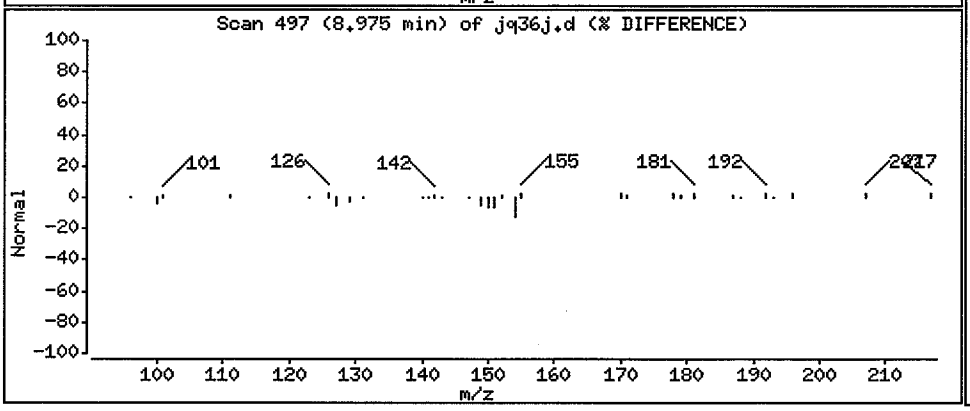
9 Acenaphthene

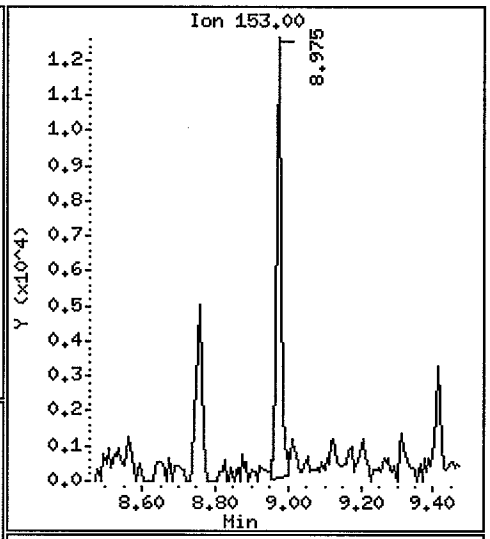
Concentration: 8.201 ug/kg

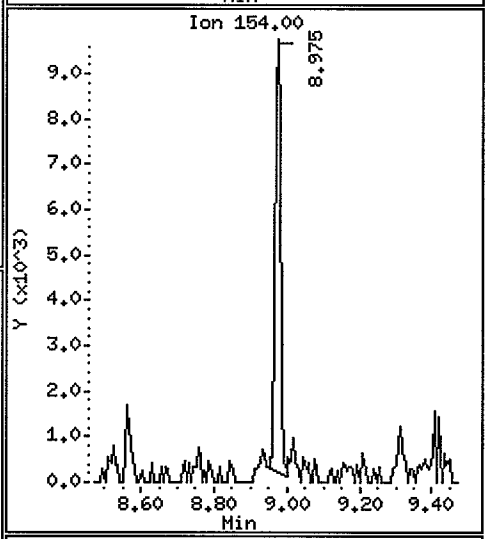


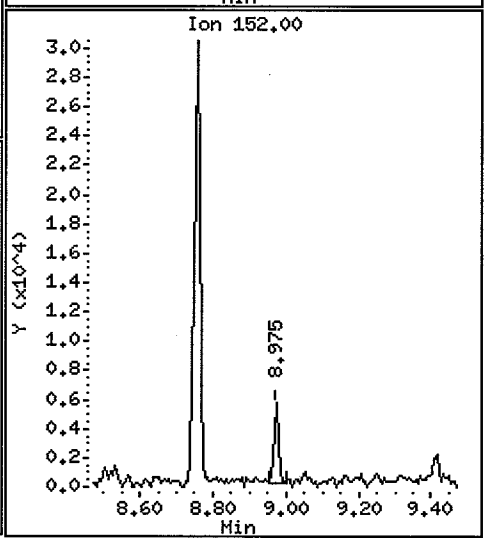












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

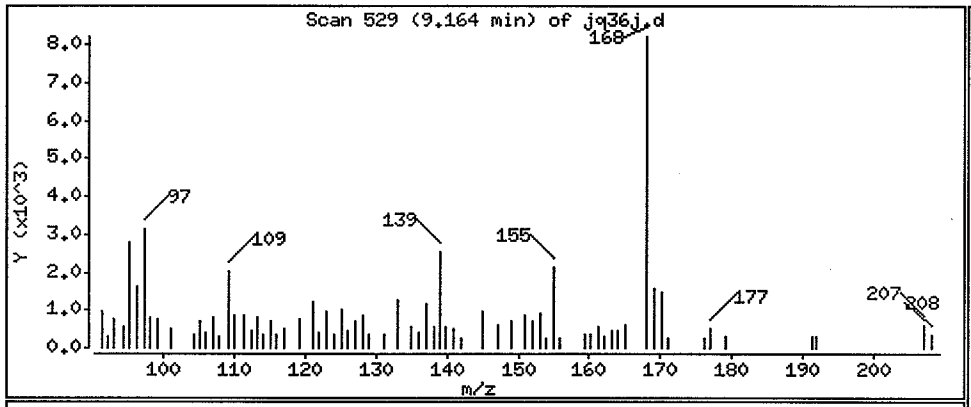
Operator: VTS

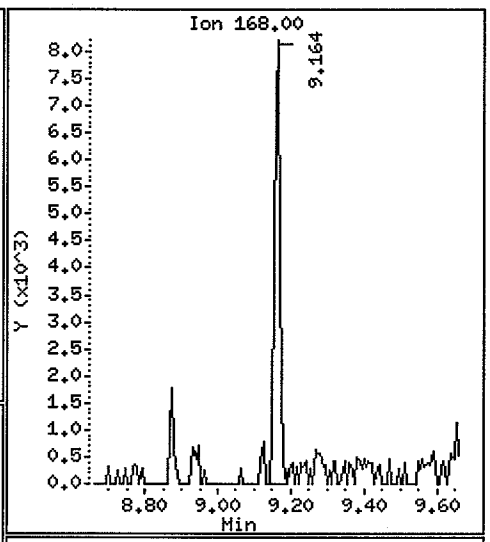
Column phase: ZB-5

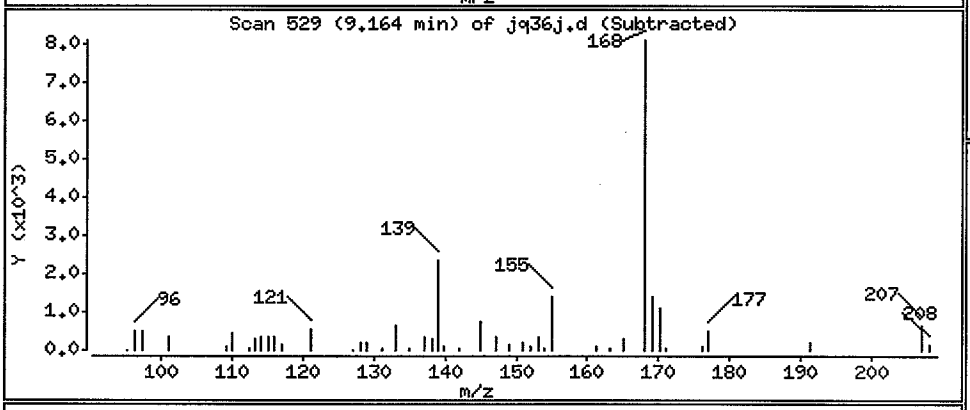
Column diameter: 0.25

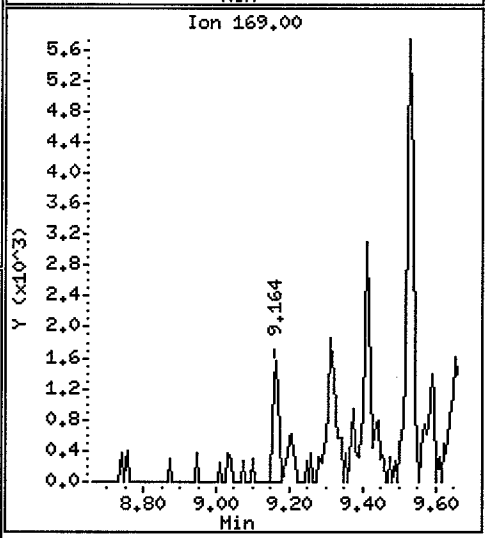
10 Dibenzofuran

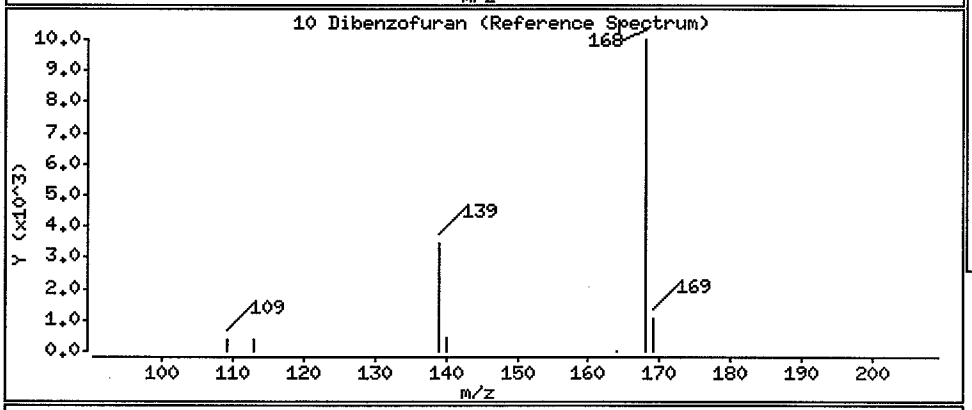
Concentration: 4.305 ug/kg

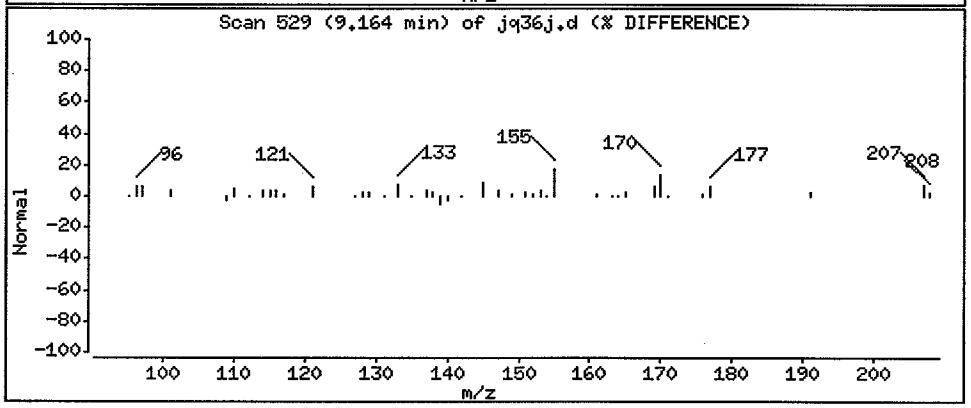












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

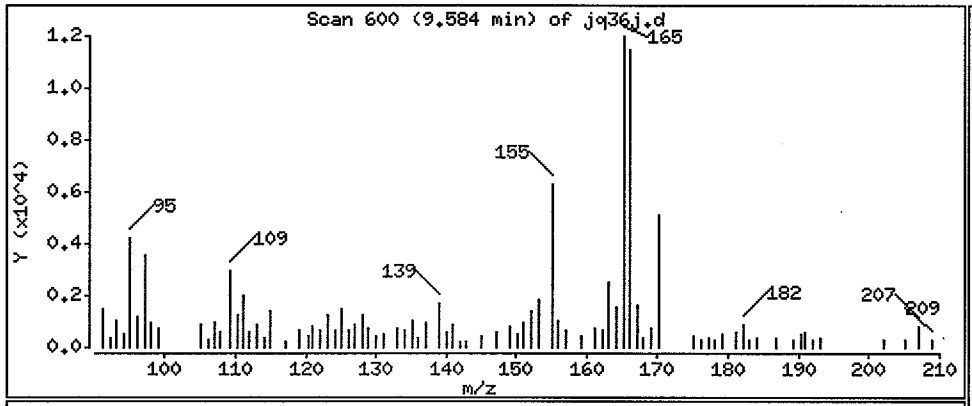
Operator: VTS

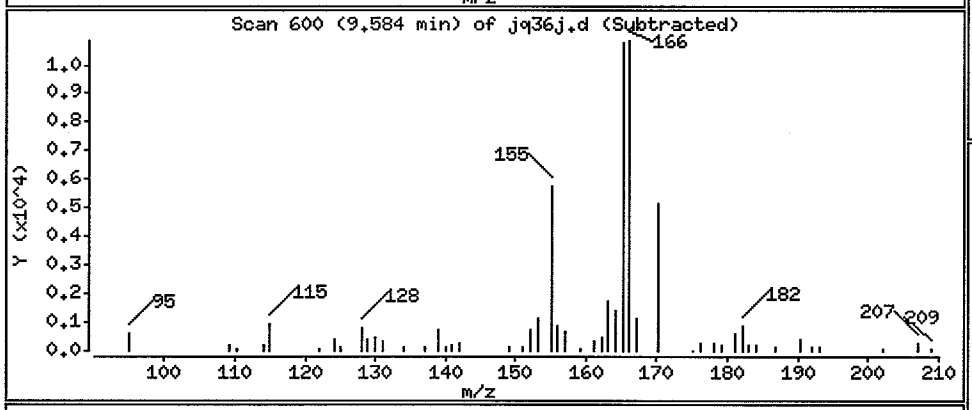
Column phase: ZB-5

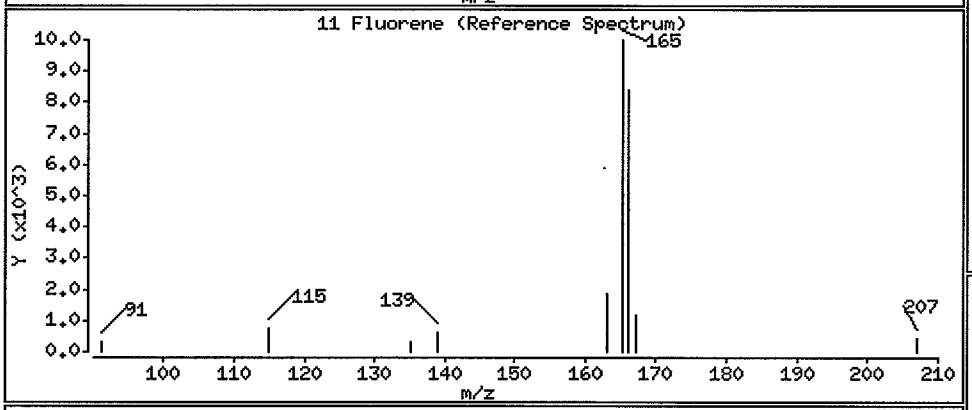
Column diameter: 0.25

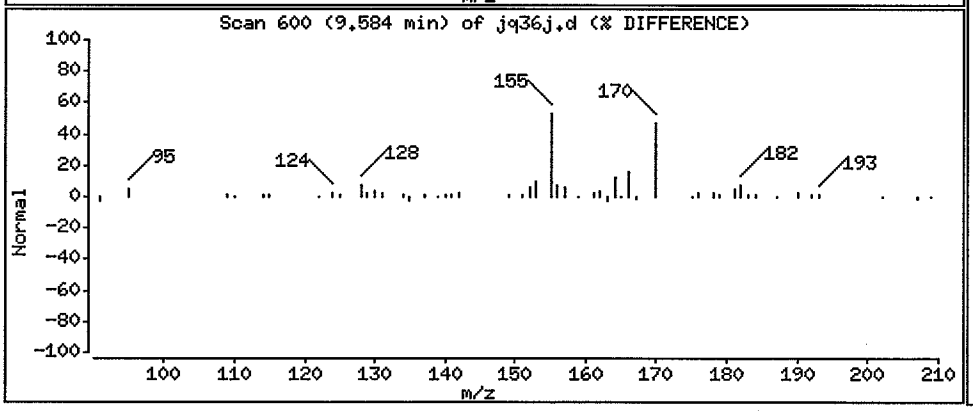
11 Fluorene

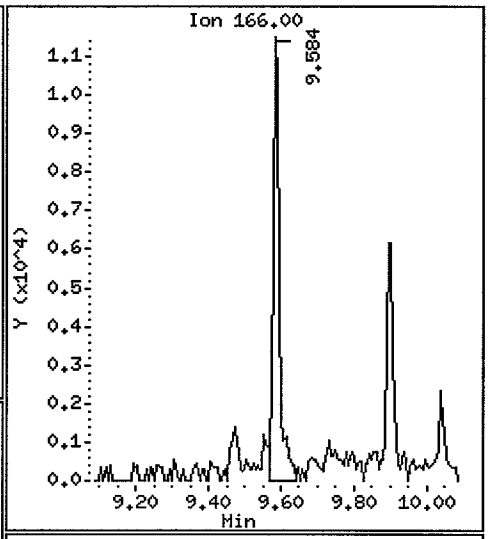
Concentration: 8.755 ug/kg

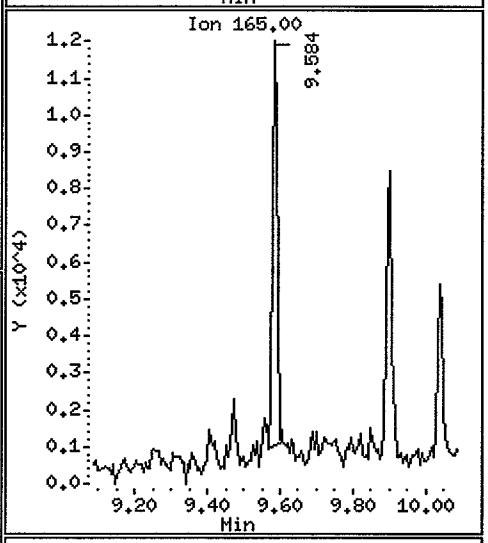


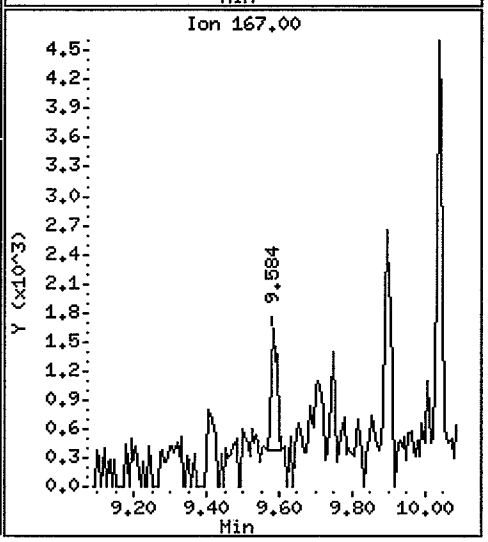












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

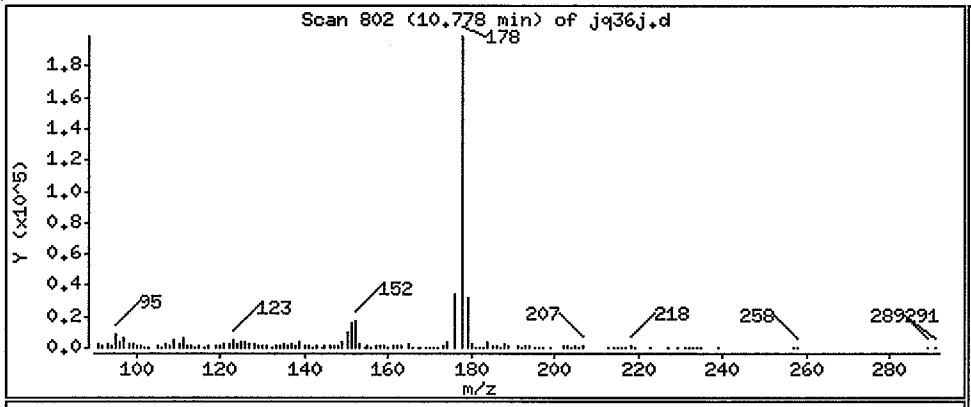
Operator: VTS

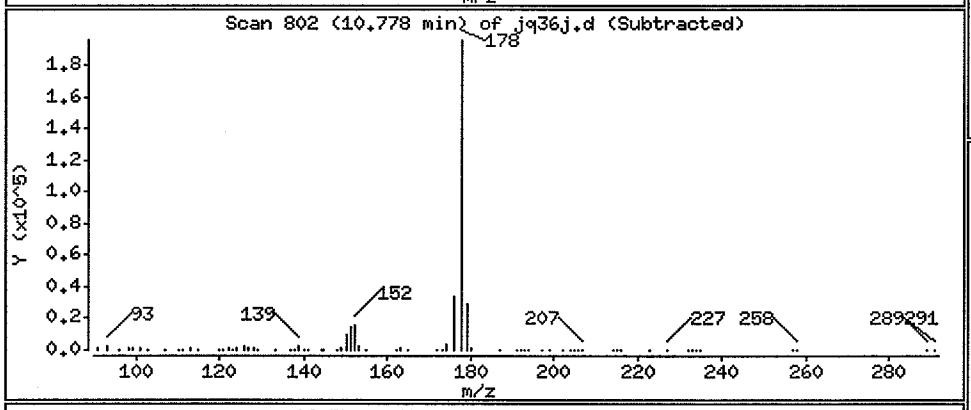
Column phase: ZB-5

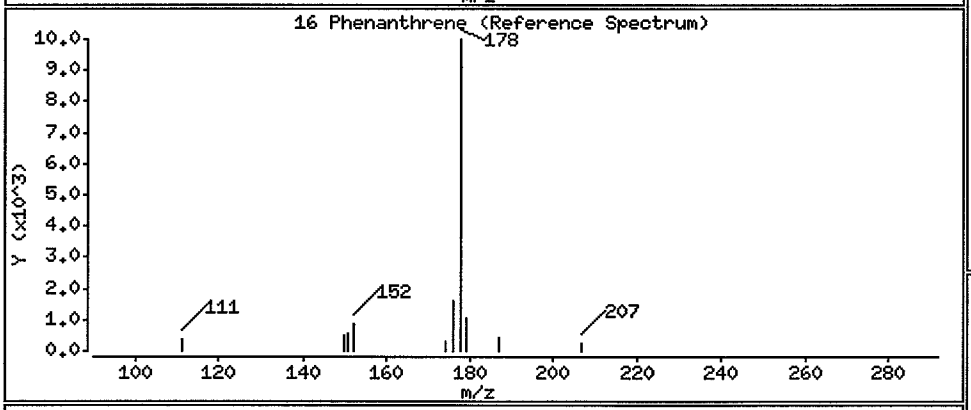
Column diameter: 0.25

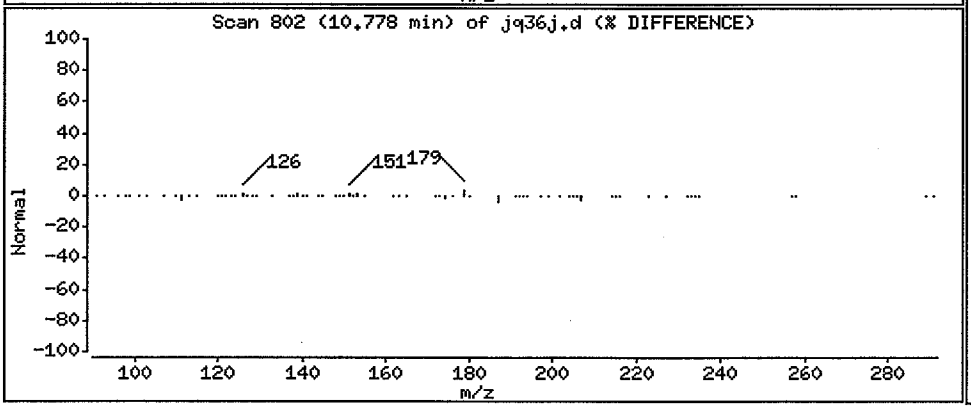
16 Phenanthrene

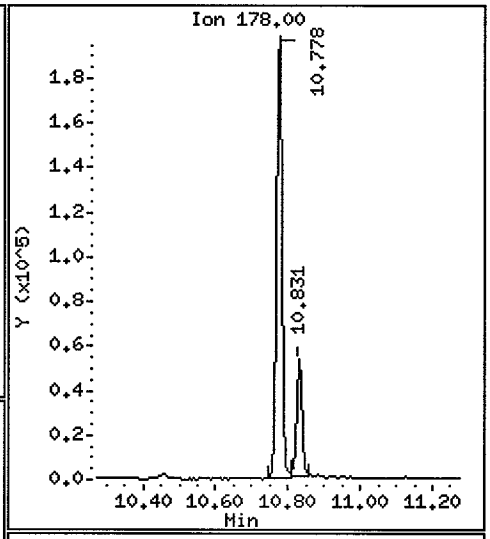
Concentration: 95.93 ug/kg

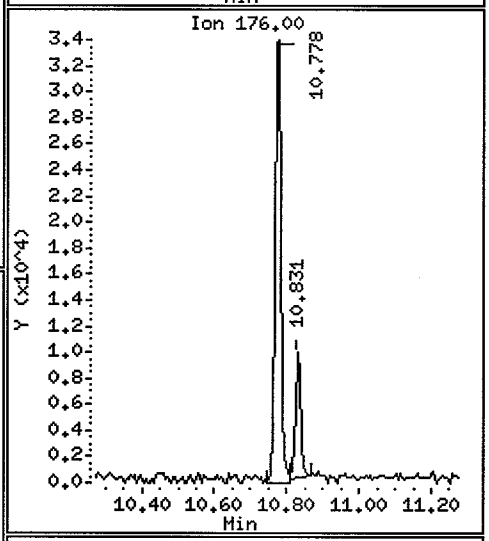


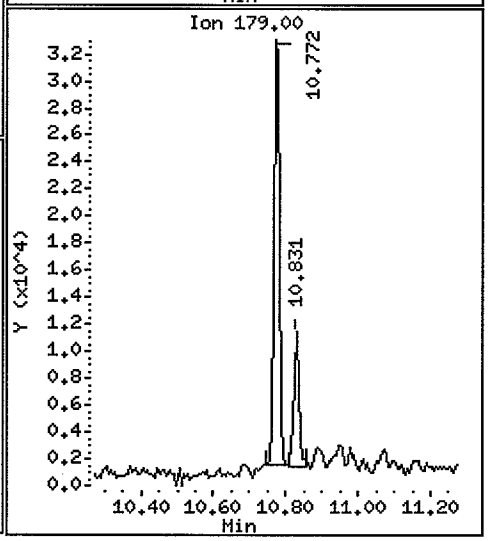












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

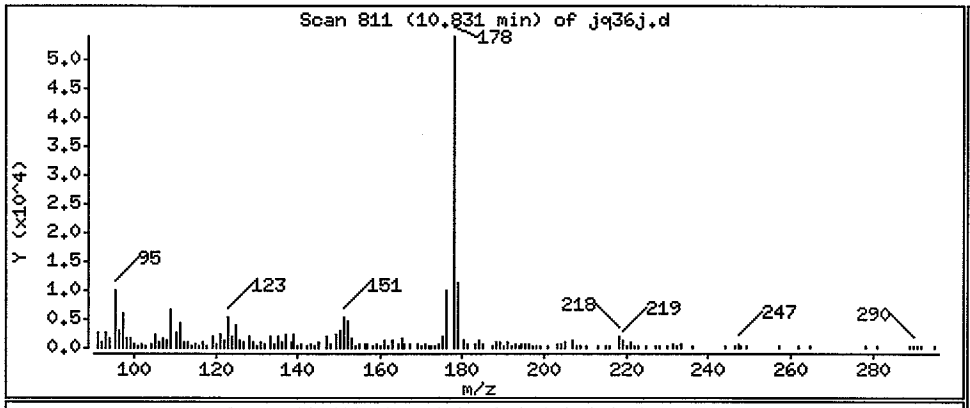
Operator: VTS

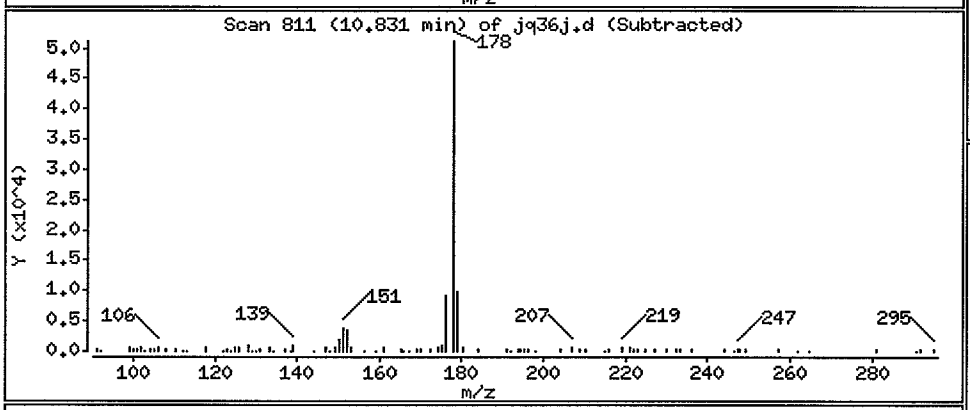
Column phase: ZB-5

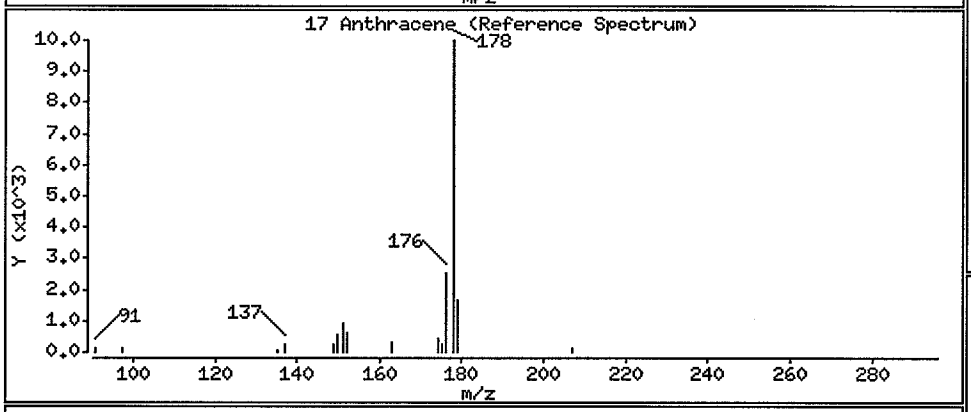
Column diameter: 0.25

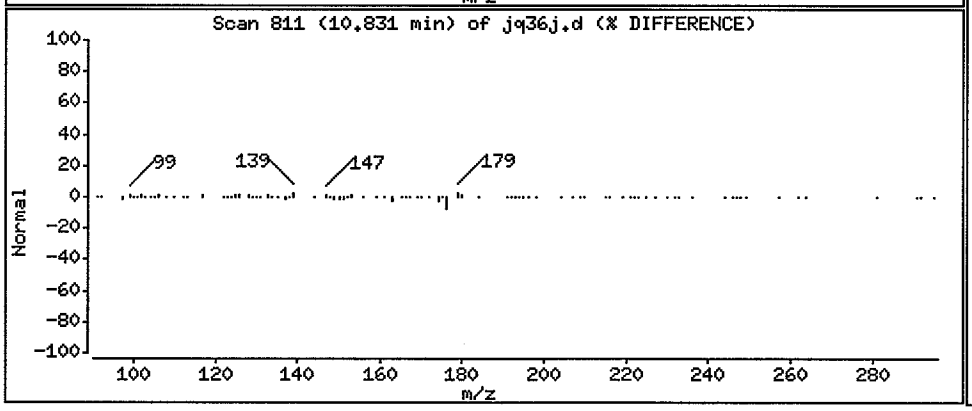
17 Anthracene

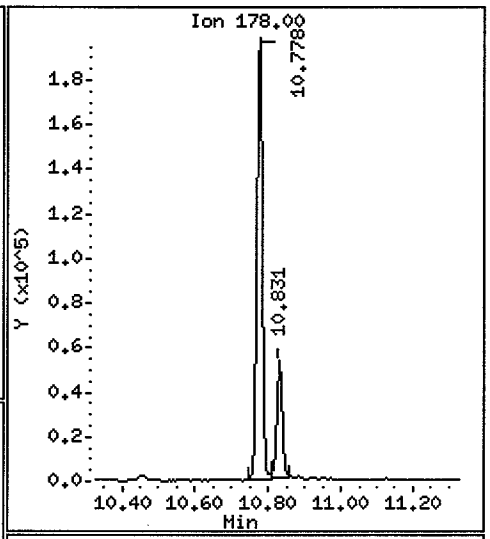
Concentration: 25.22 ug/kg

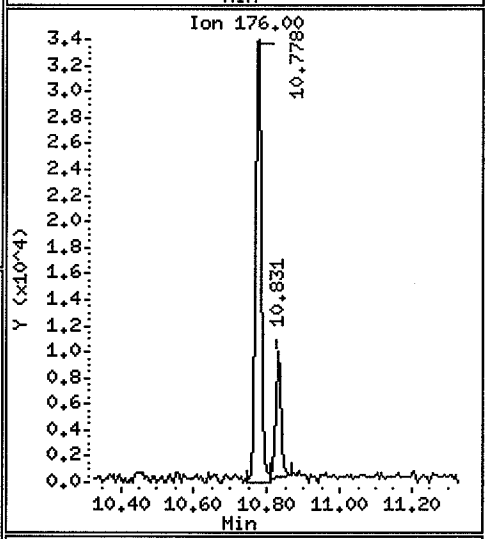


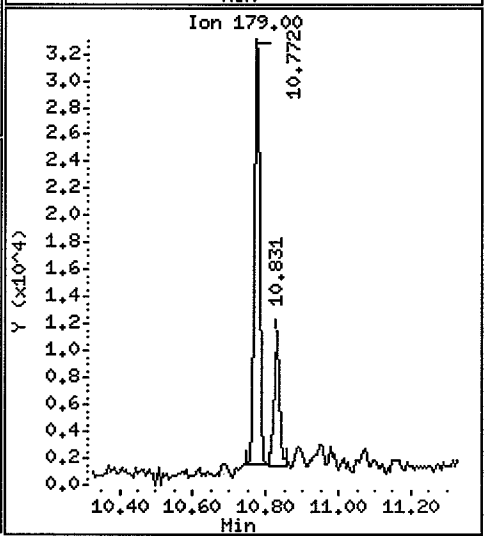












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

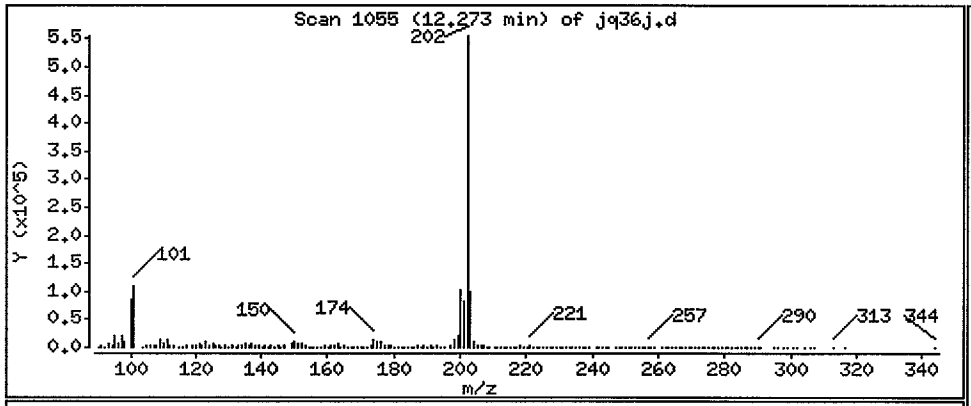
Operator: VTS

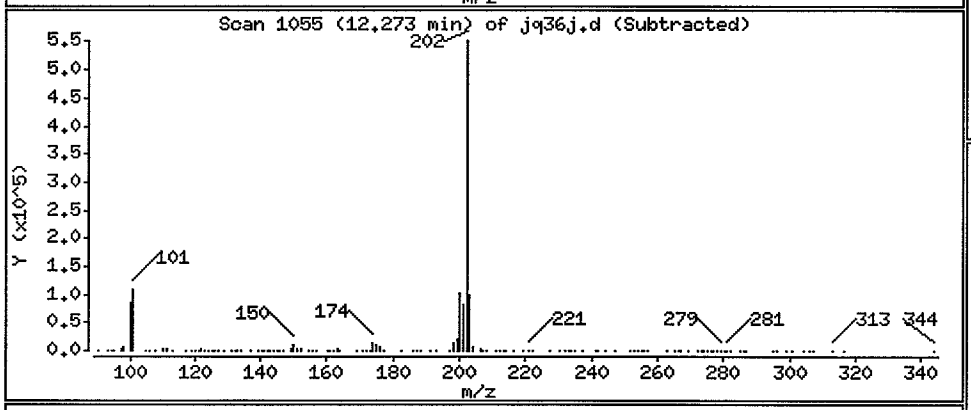
Column phase: ZB-5

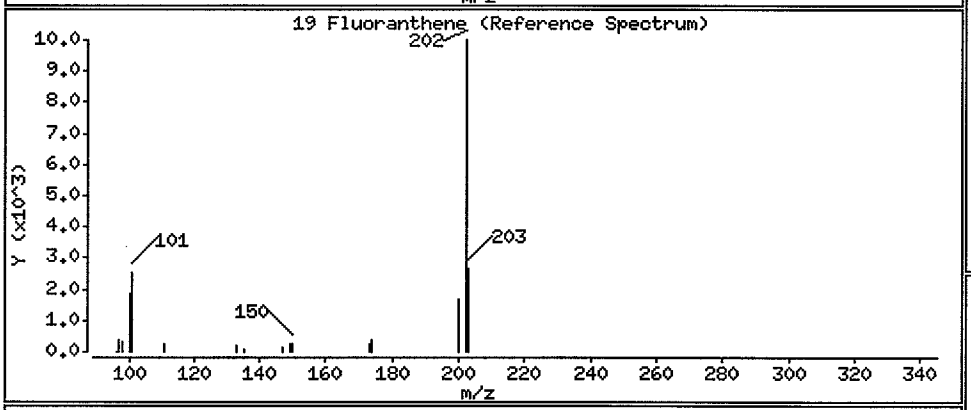
Column diameter: 0.25

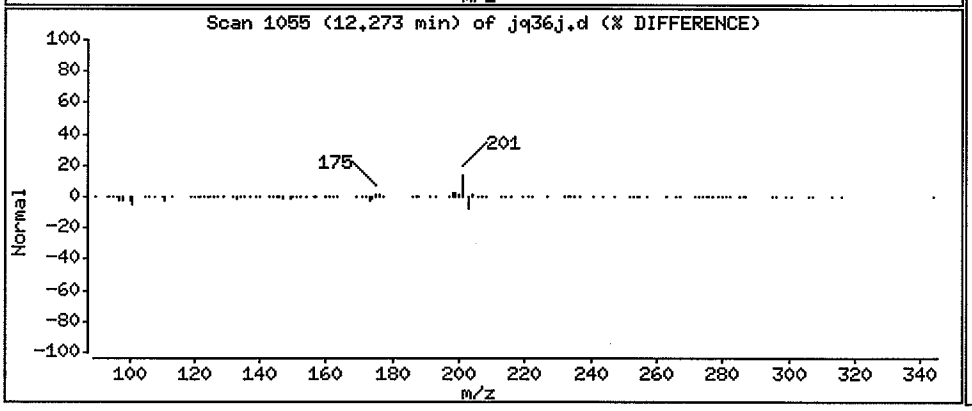
19 Fluoranthene

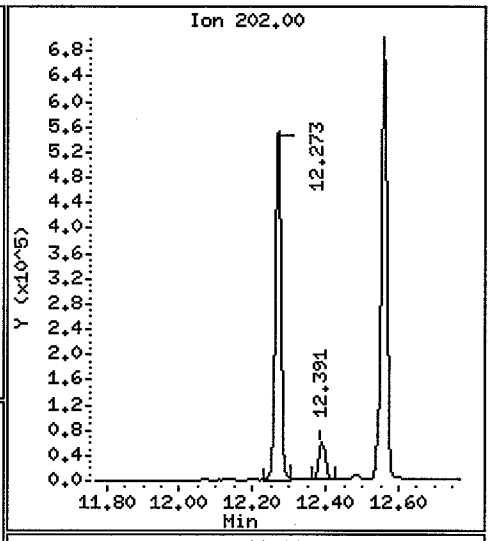
Concentration: 276.2 ug/kg

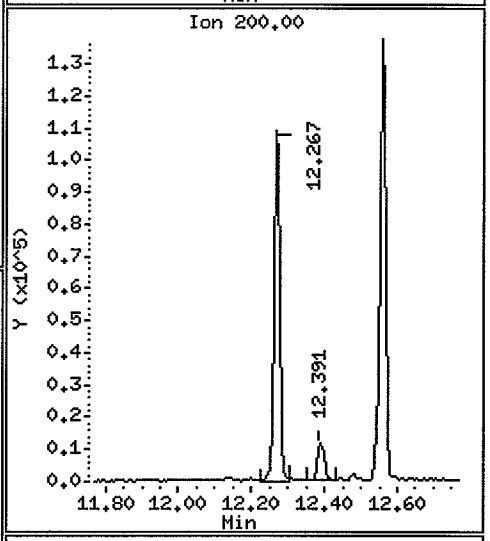


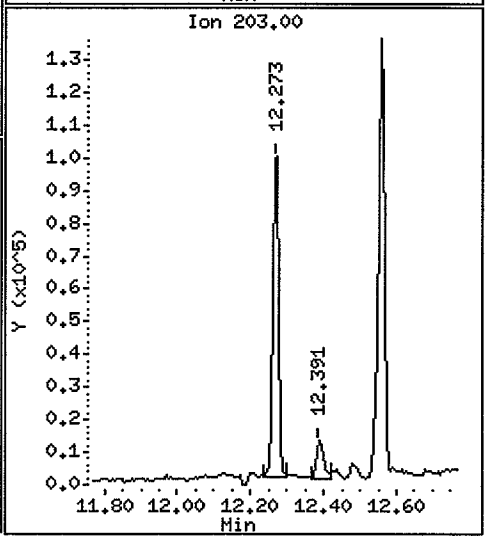












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

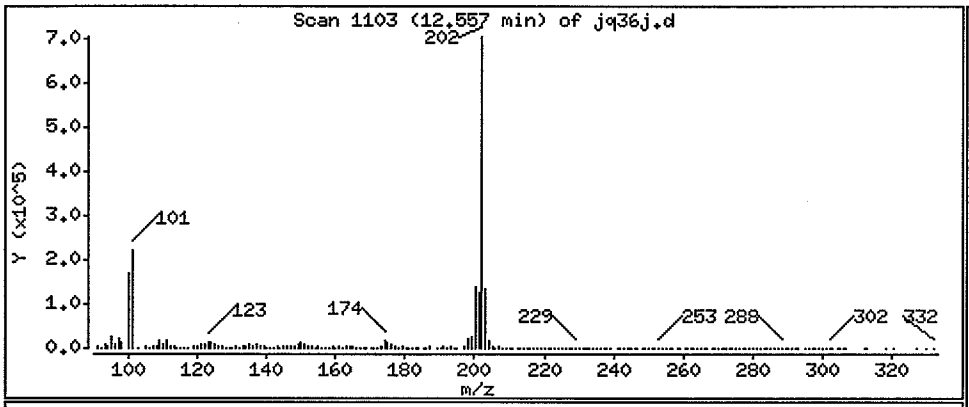
Operator: VTS

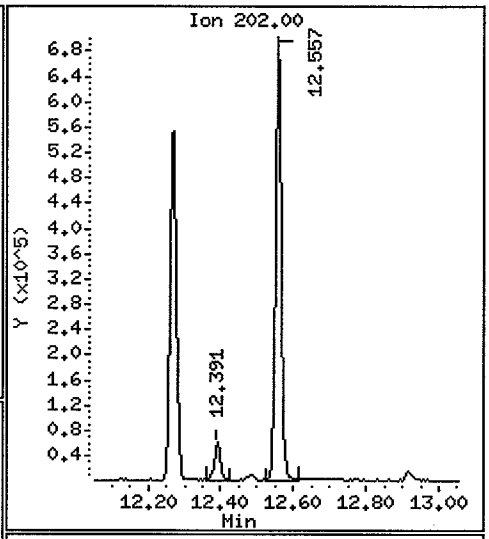
Column phase: ZB-5

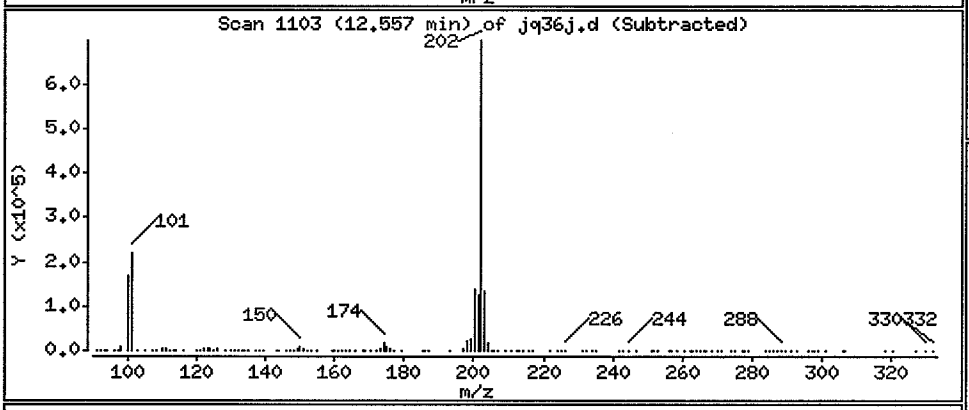
Column diameter: 0.25

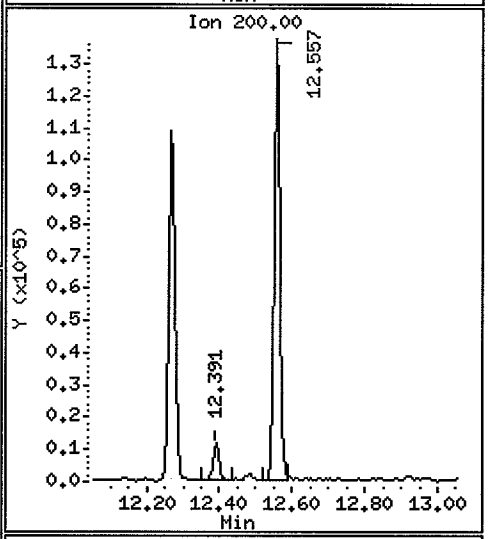
20 Pyrene

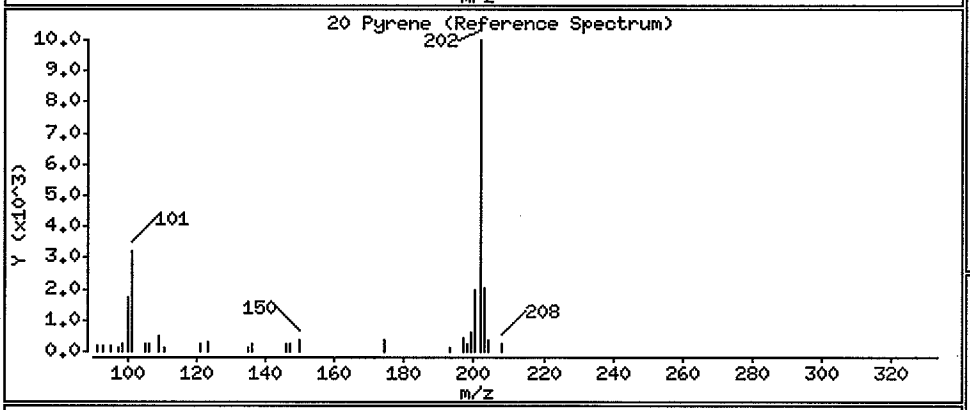
Concentration: 291.3 ug/kg

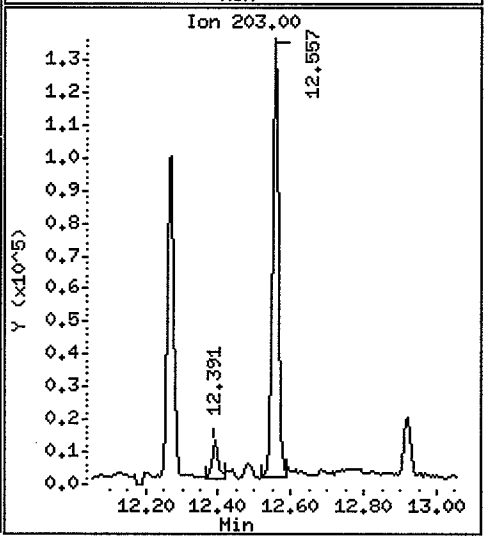


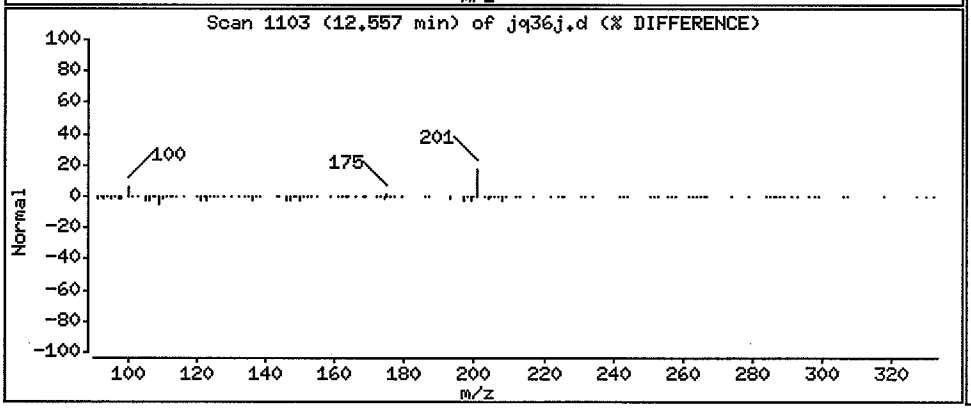












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

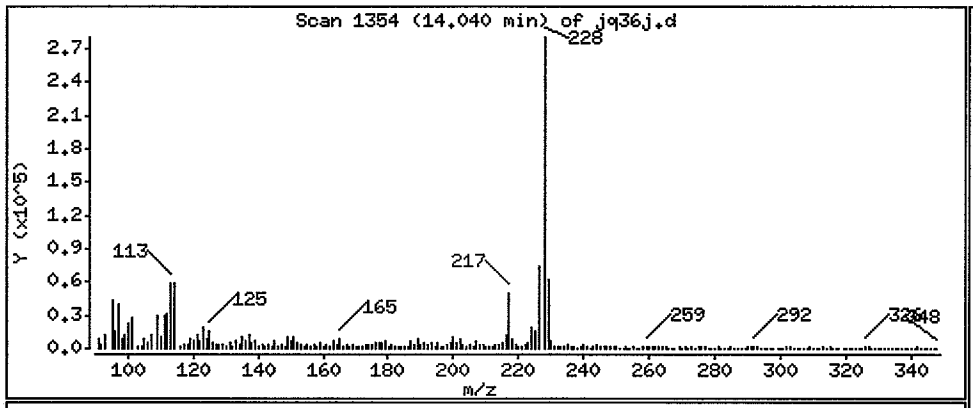
Operator: VTS

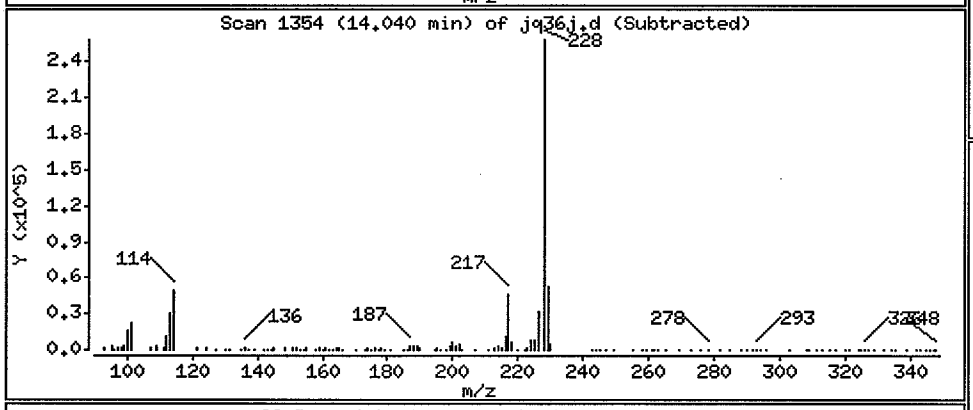
Column phase: ZB-5

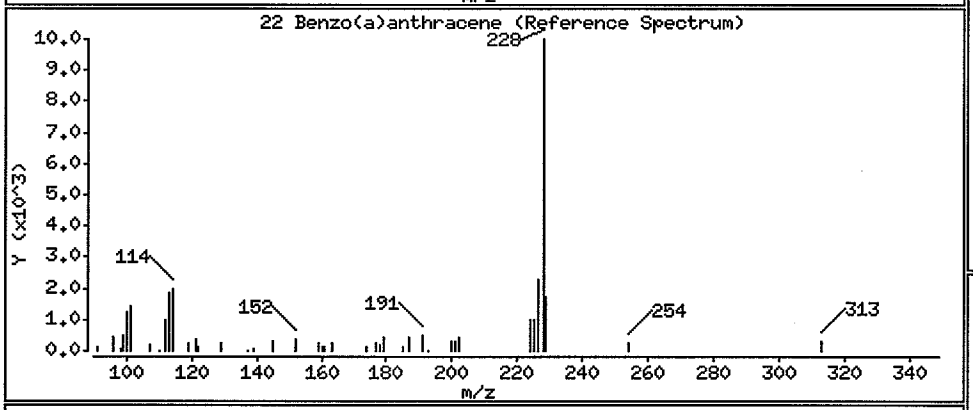
Column diameter: 0.25

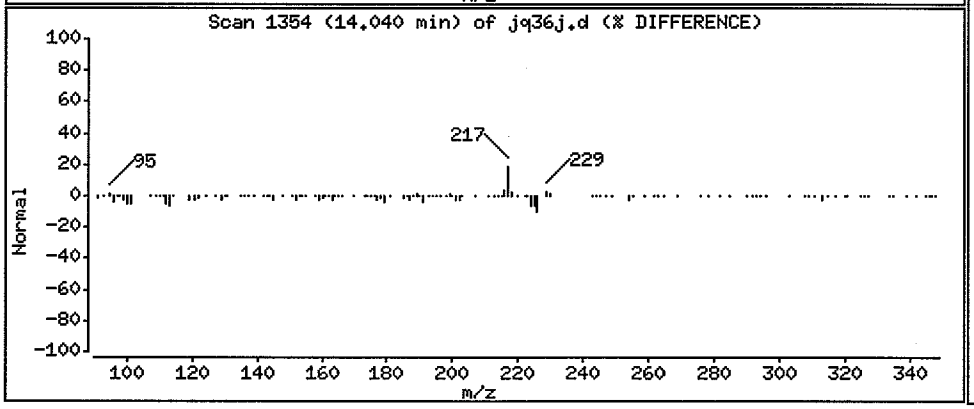
22 Benzo(a)anthracene

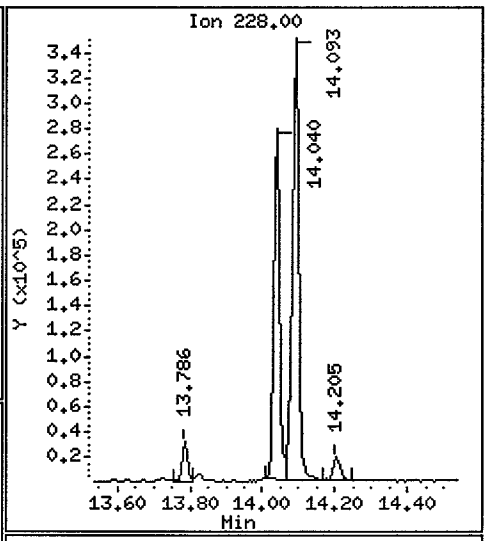
Concentration: 124.6 ug/kg

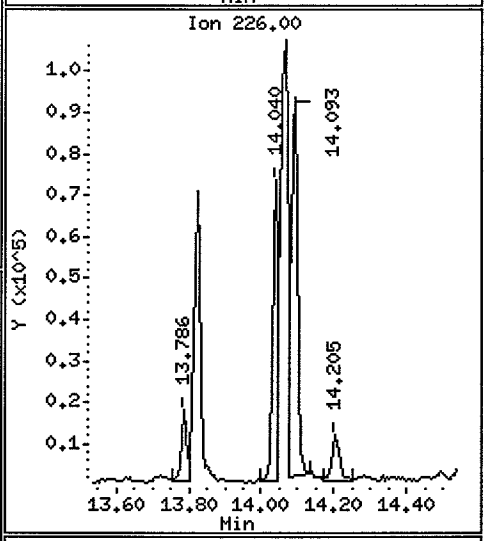


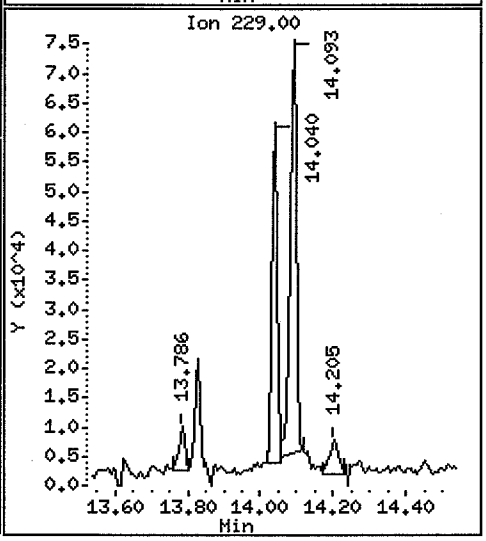












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

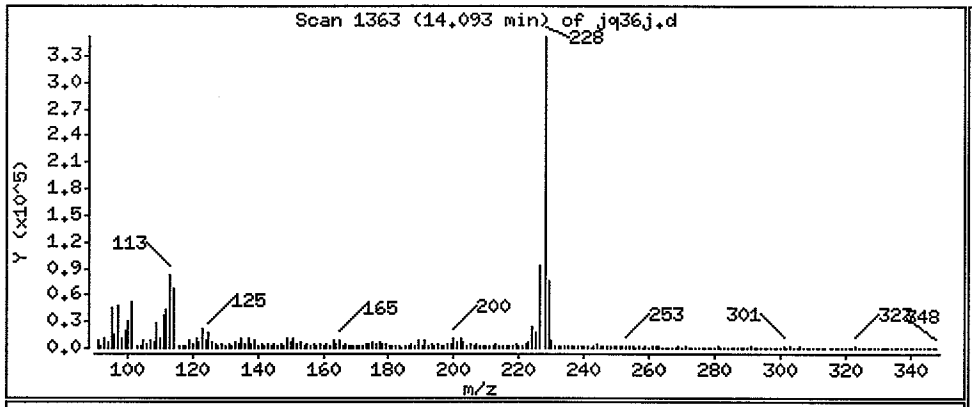
Operator: VTS

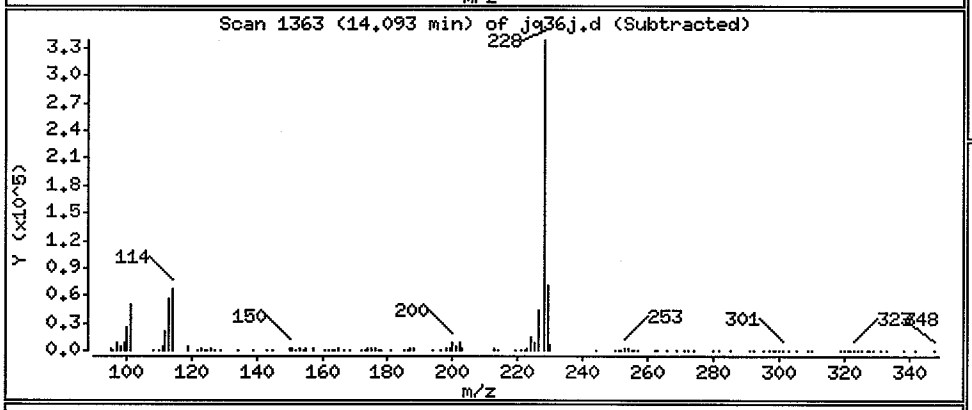
Column phase: ZB-5

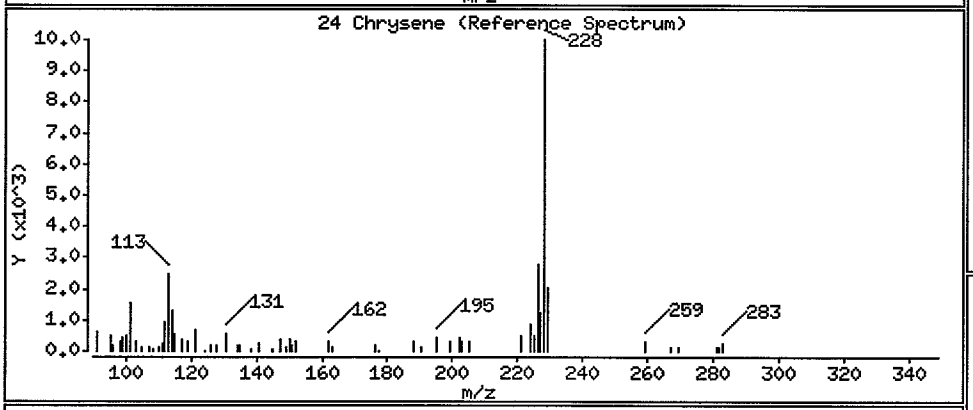
Column diameter: 0.25

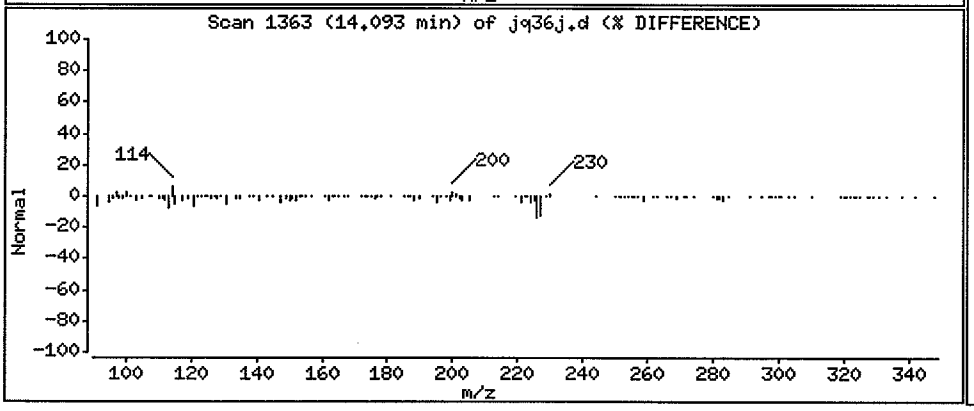
24 Chrysene

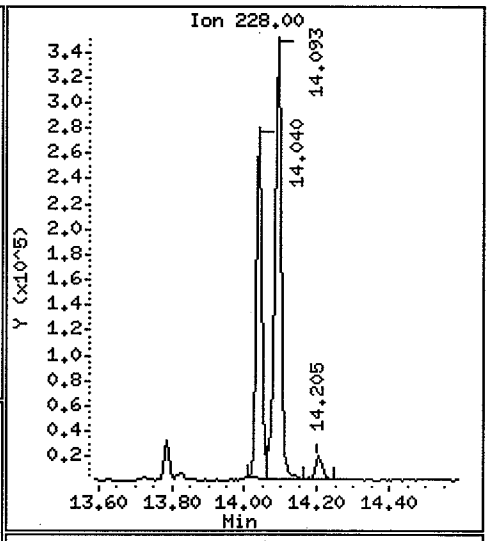
Concentration: 191.1 ug/kg

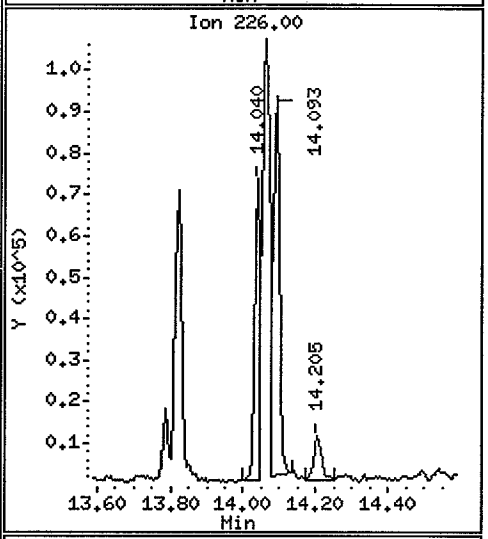


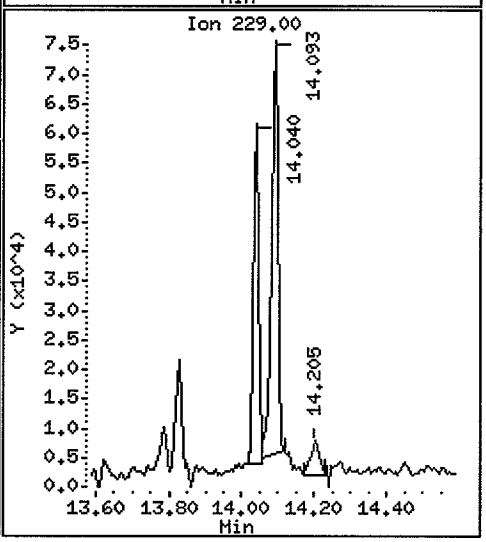












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

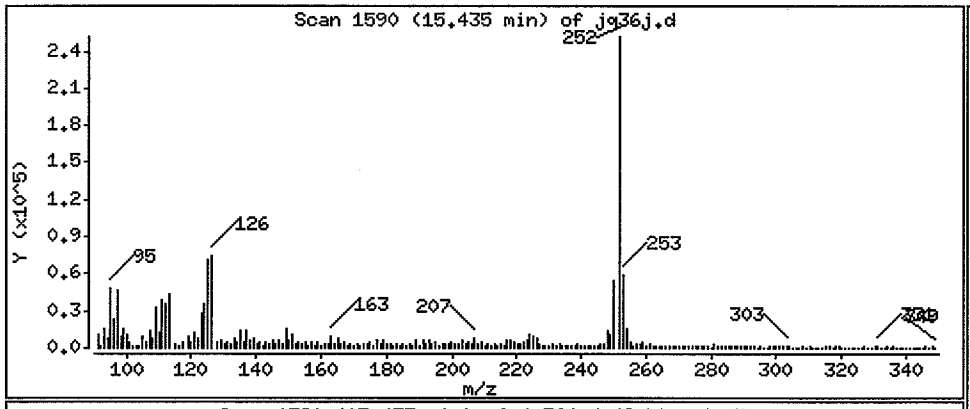
Operator: VTS

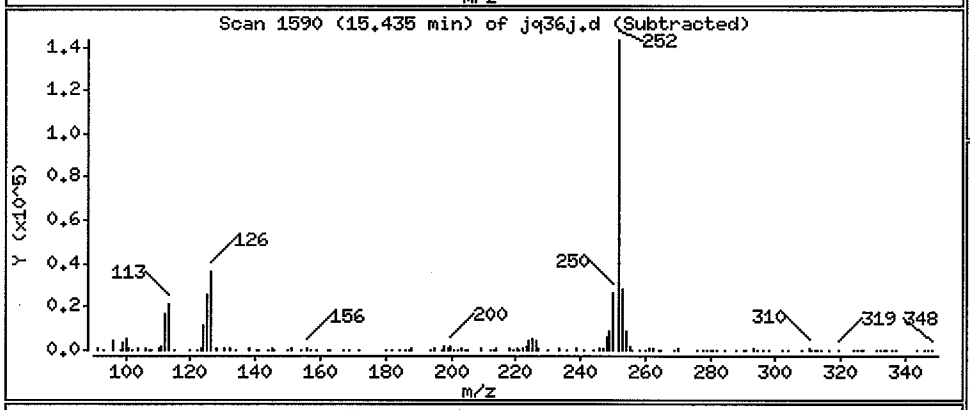
Column phase: ZB-5

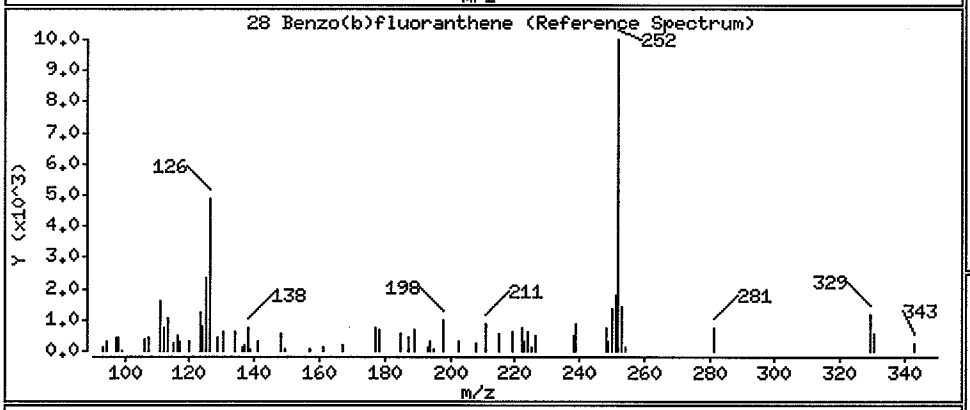
Column diameter: 0.25

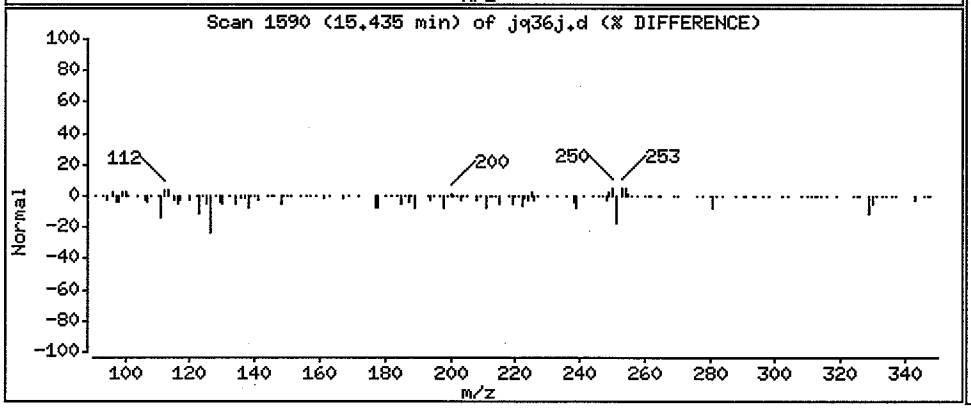
28 Benzo(b)fluoranthene

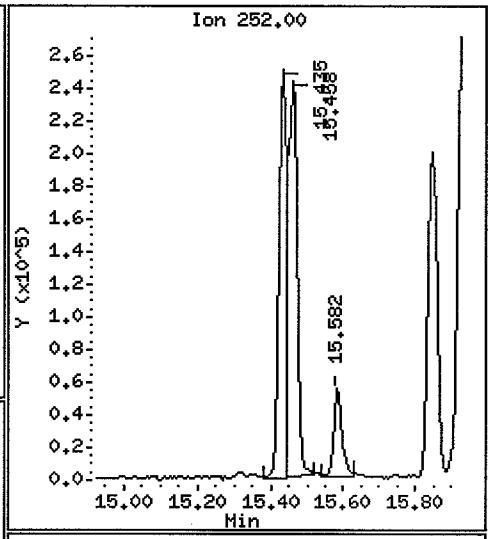
Concentration: 155.8 ug/kg

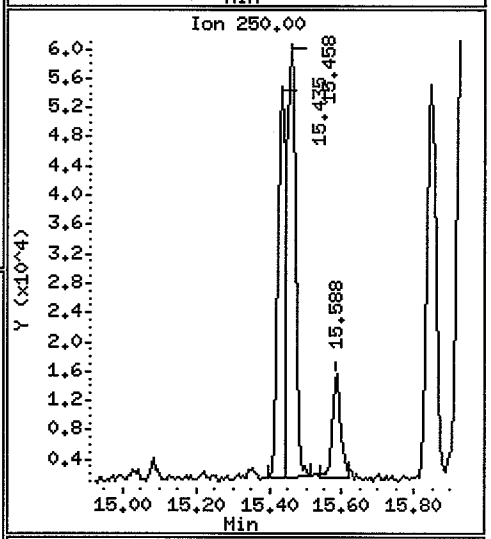


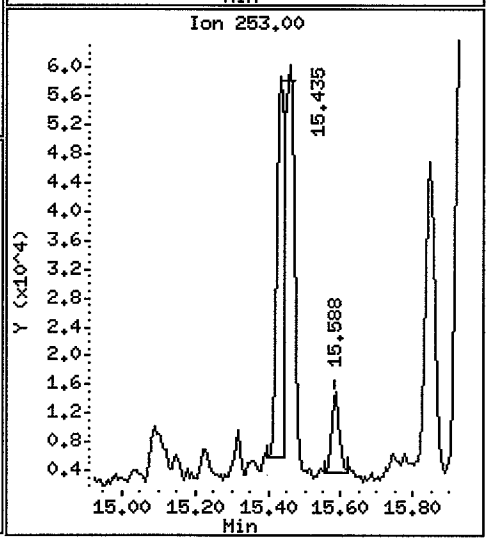












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

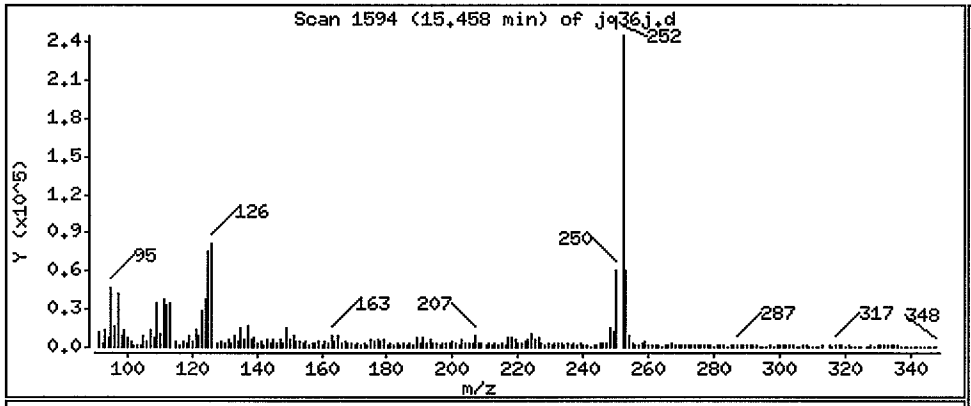
Operator: VTS

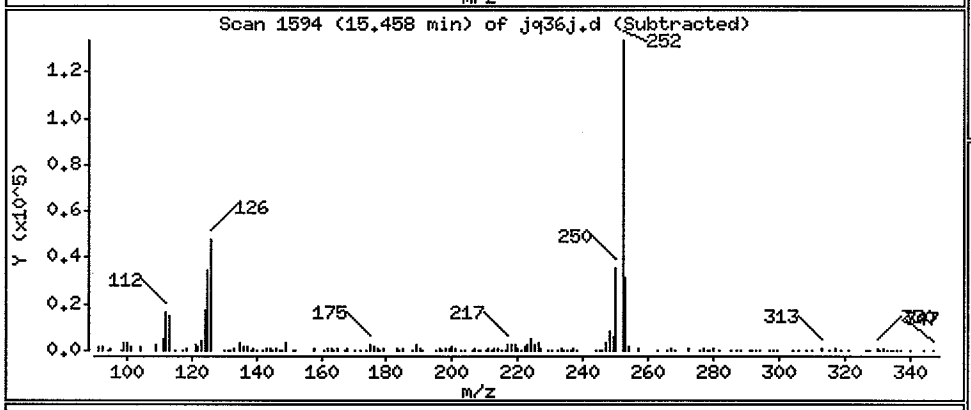
Column phase: ZB-5

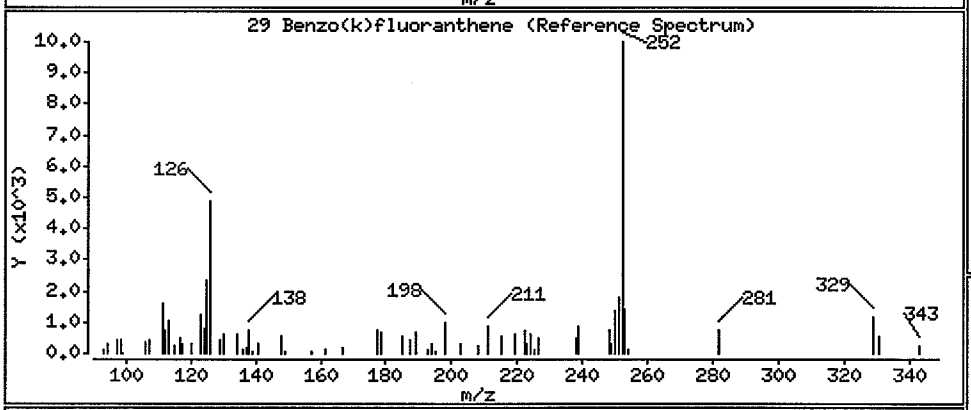
Column diameter: 0.25

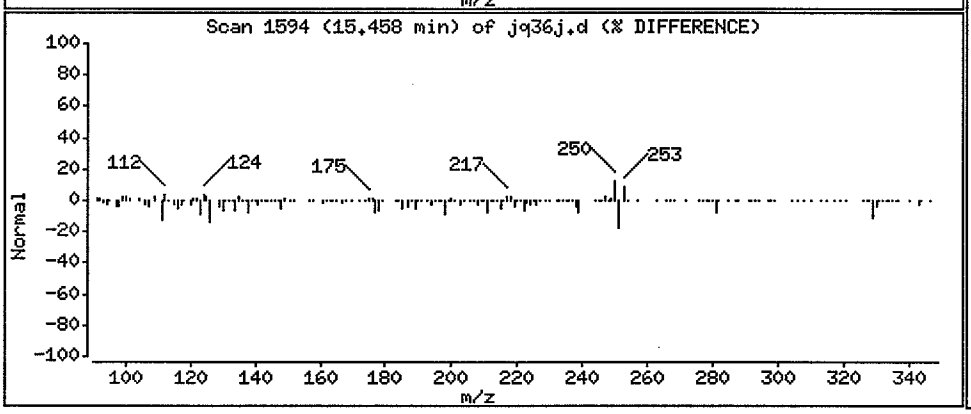
29 Benzo(k)fluoranthene

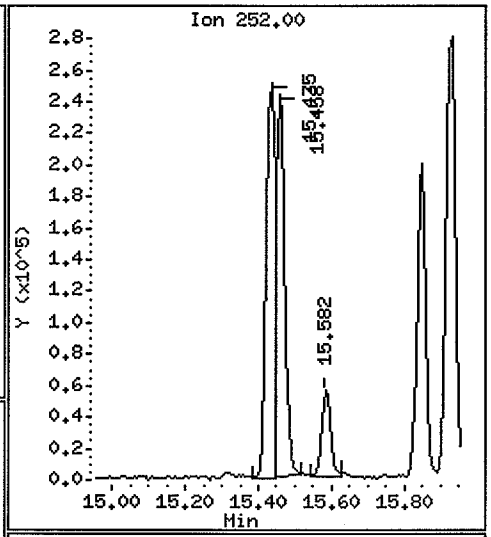
Concentration: 151.3 ug/kg

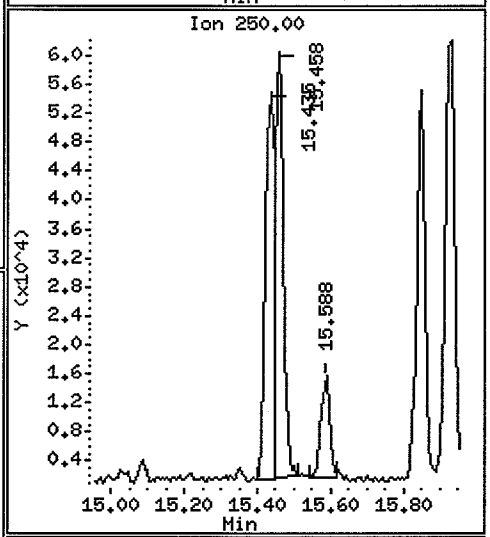


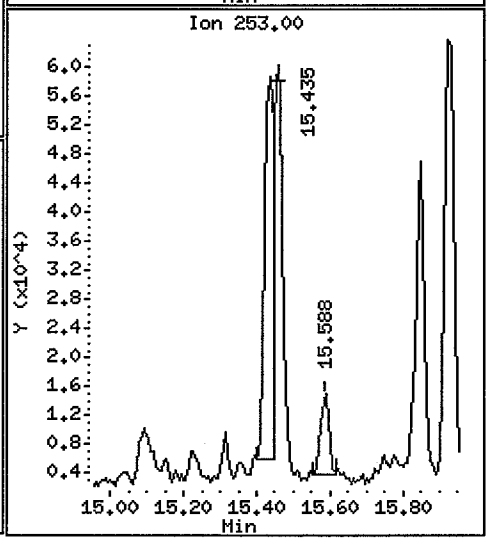












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

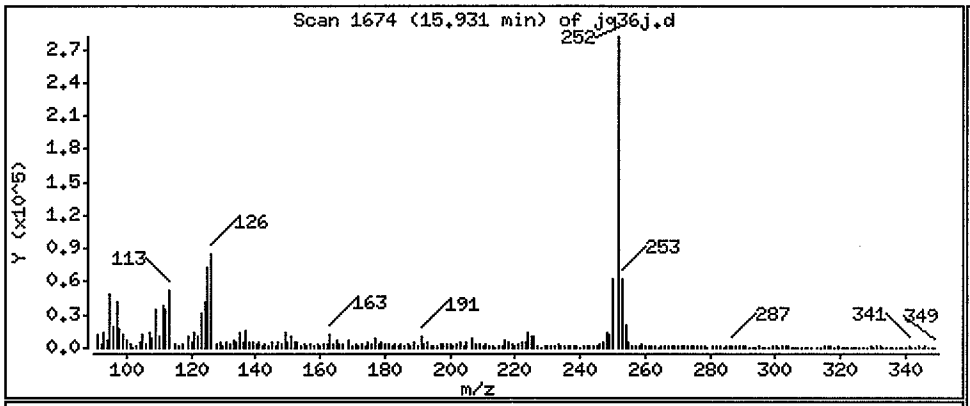
Operator: VTS

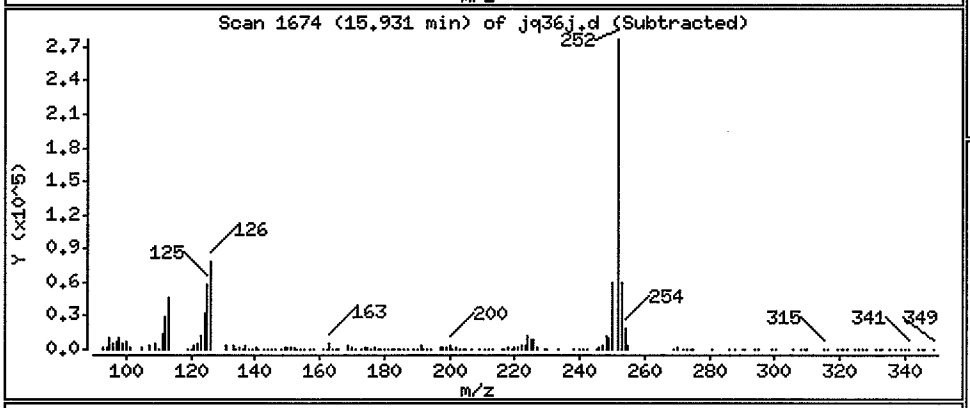
Column phase: ZB-5

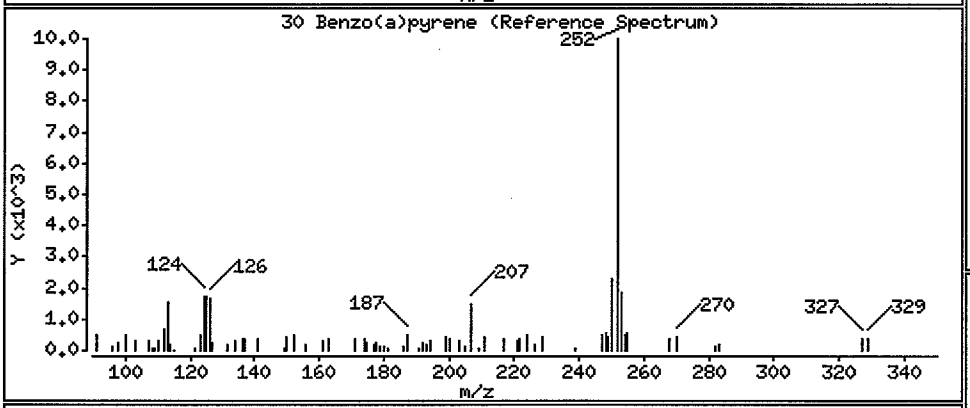
Column diameter: 0.25

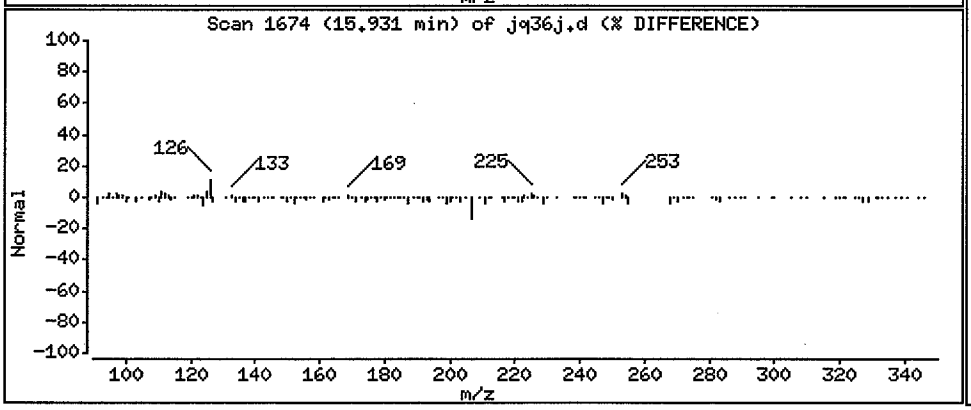
30 Benzo(a)pyrene

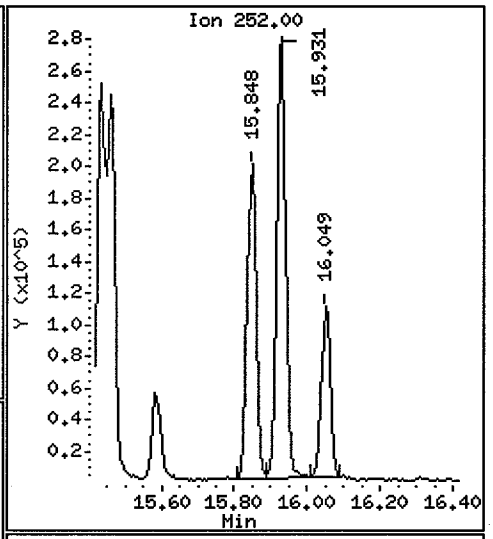
Concentration: 187.6 ug/kg

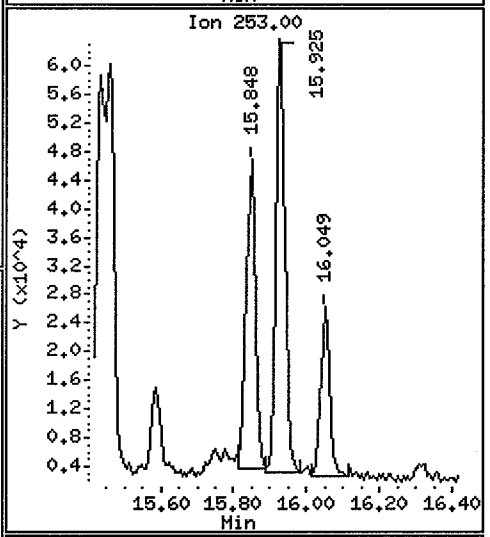


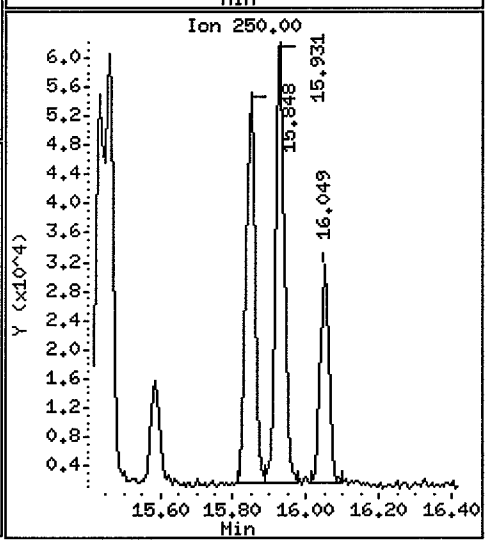












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

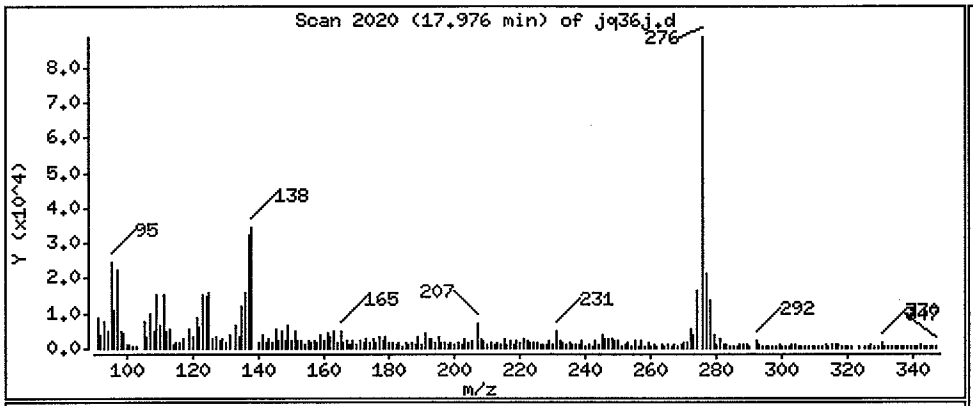
Operator: VTS

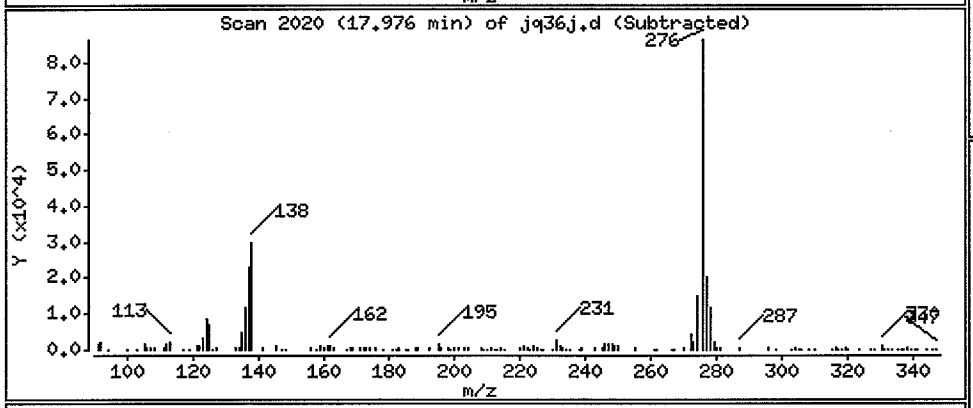
Column phase: ZB-5

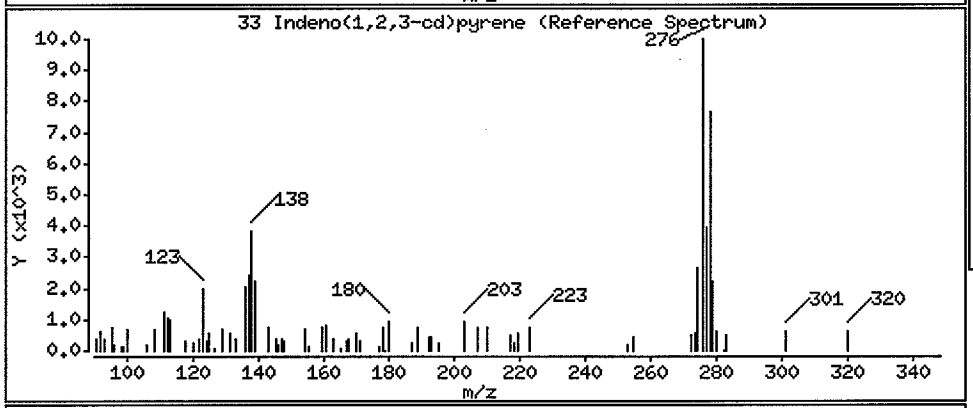
Column diameter: 0.25

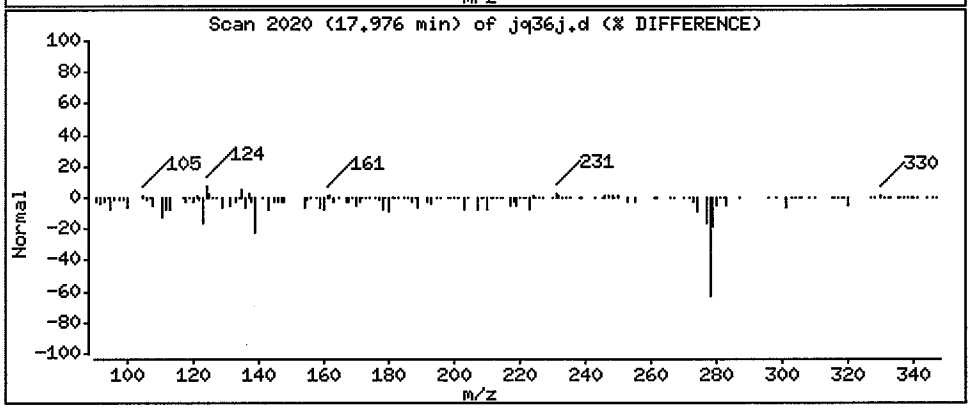
33 Indeno(1,2,3-cd)pyrene

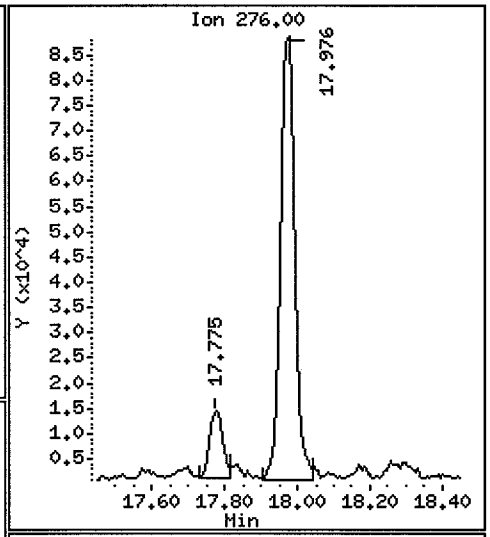
Concentration: 80.62 ug/kg

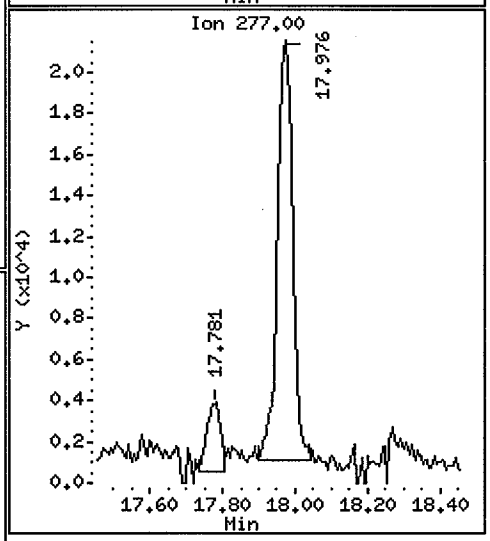












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

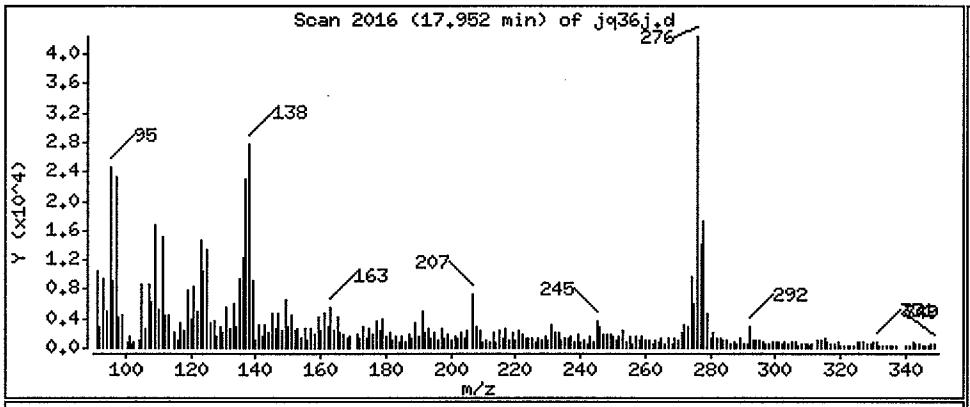
Operator: VTS

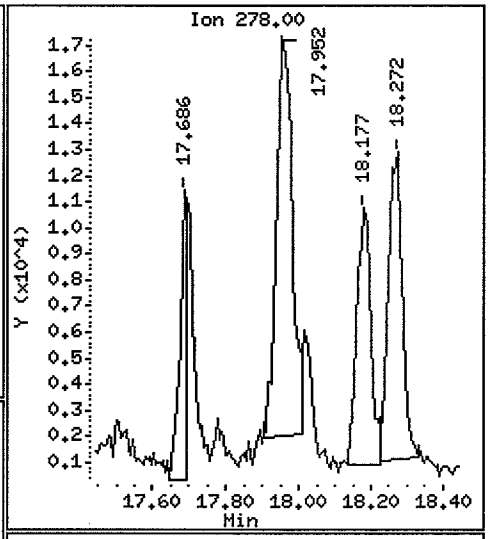
Column phase: ZB-5

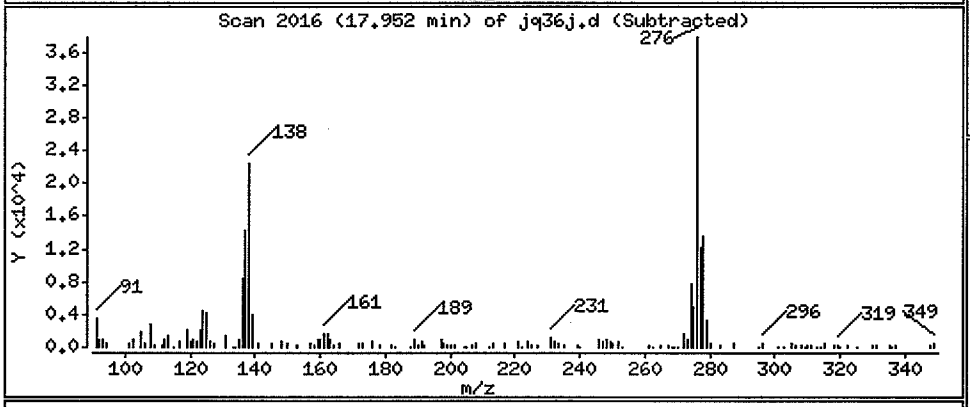
Column diameter: 0.25

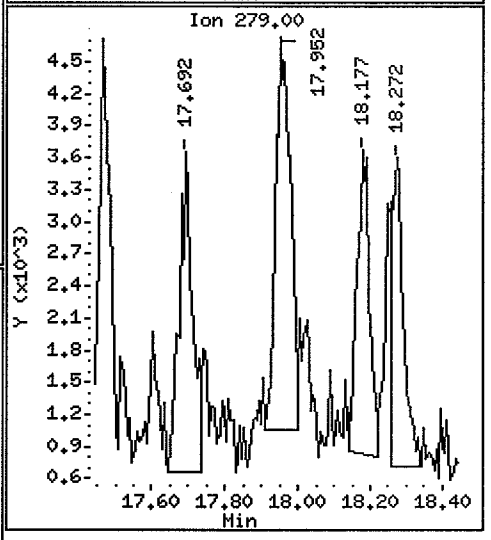
34 Dibenz(a,h)anthracene

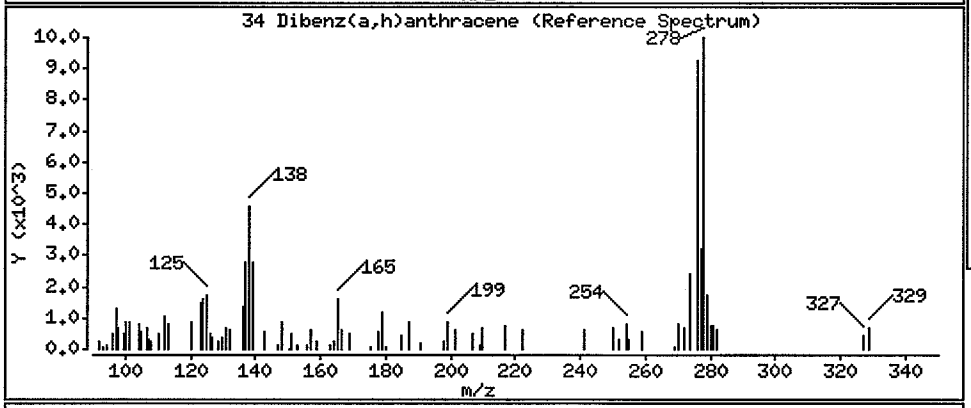
Concentration: 19.65 ug/kg

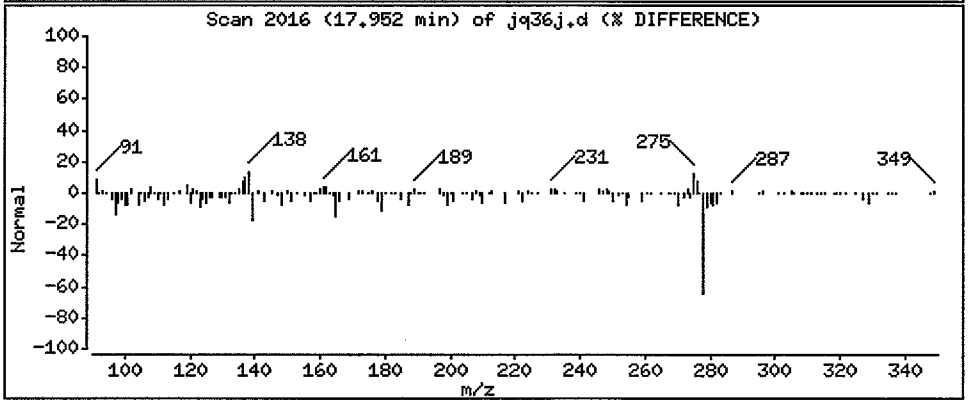












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

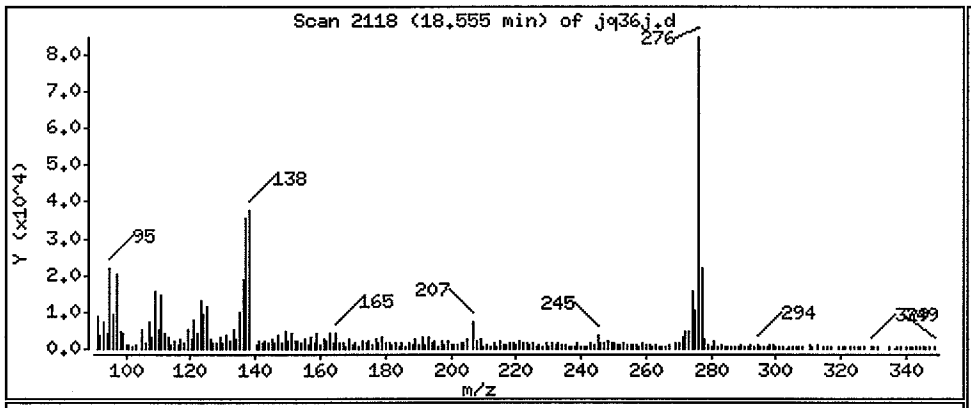
Client ID: T4-WB-02 Instrument: nt1.i

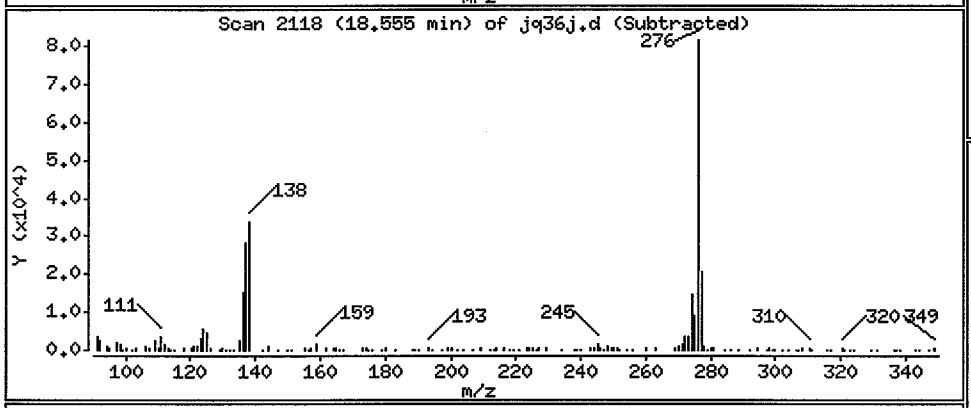
Sample Info: JQ36J

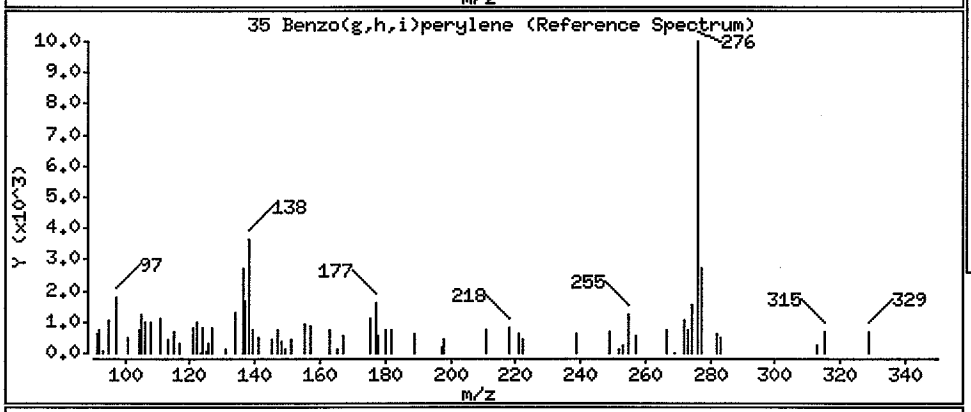
Volume Injected (uL): 1.0 Operator: VTS

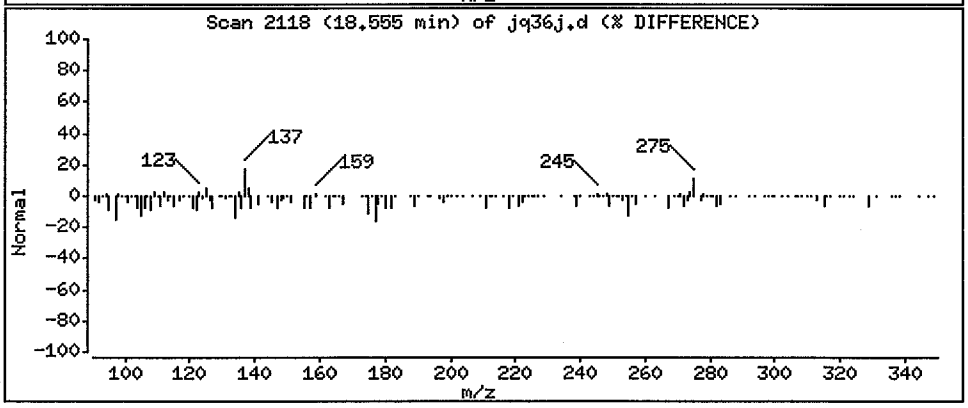
Column phase: ZB-5 Column diameter: 0.25

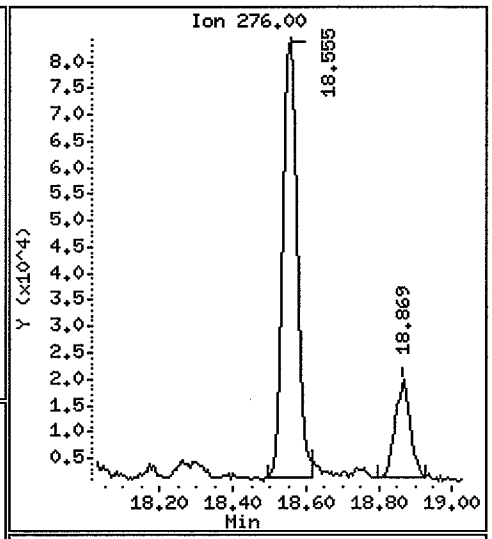
35 Benzo(g,h,i)perylene Concentration: 93.23 ug/kg

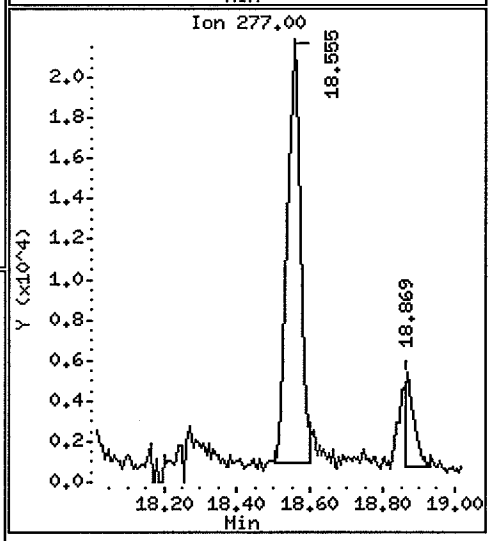












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

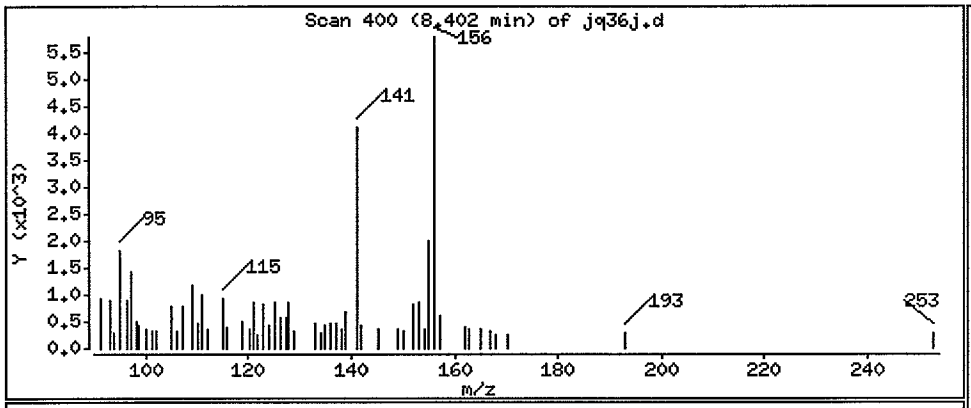
Operator: VTS

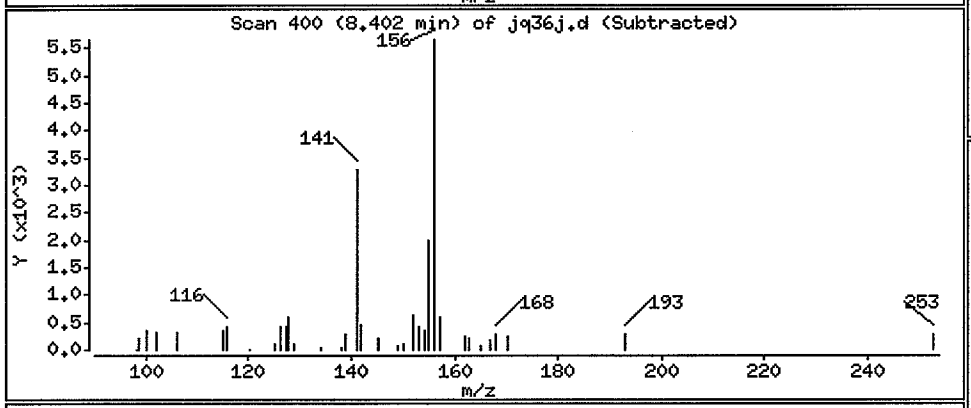
Column phase: ZB-5

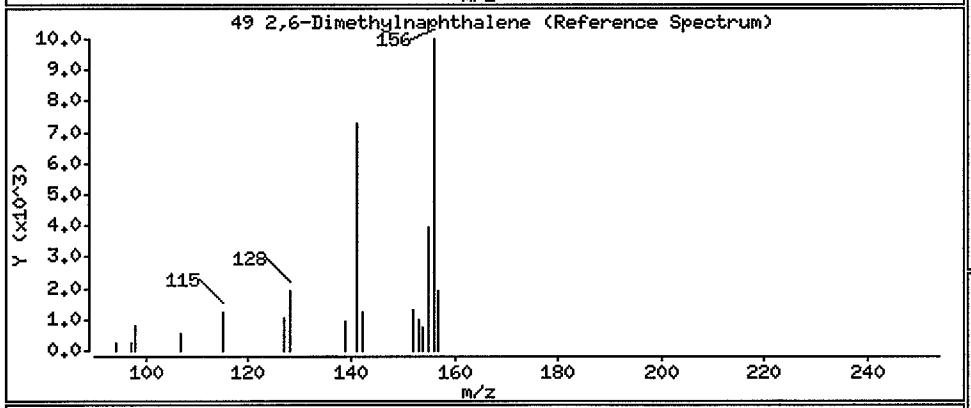
Column diameter: 0.25

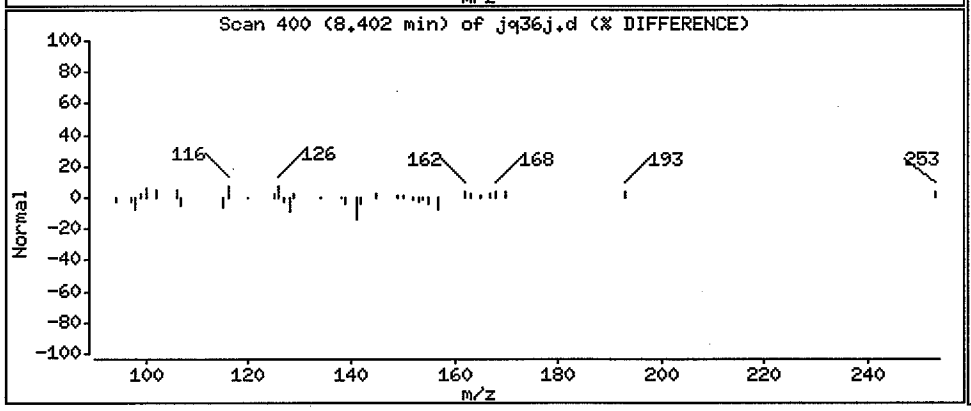
49 2,6-Dimethylnaphthalene

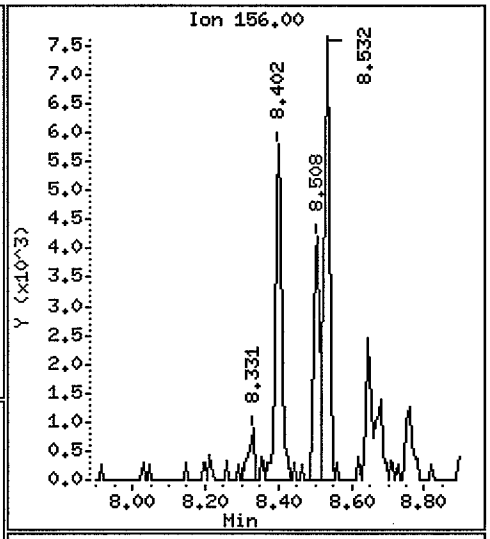
Concentration: 5.118 ug/kg

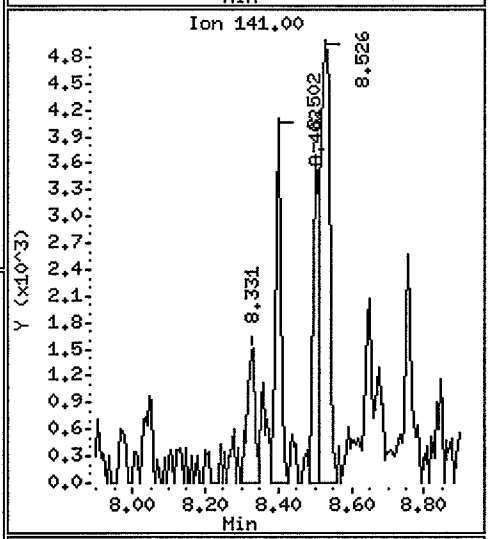


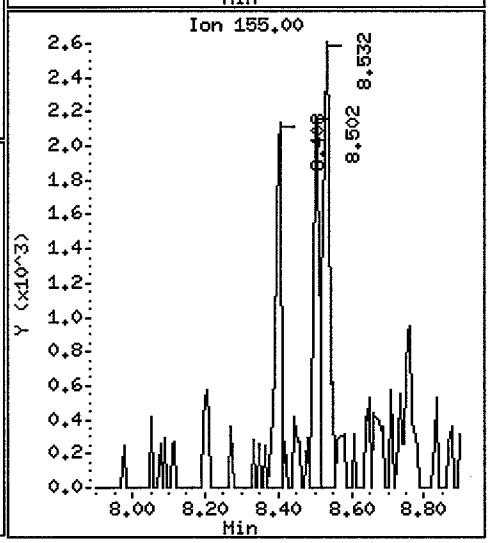












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

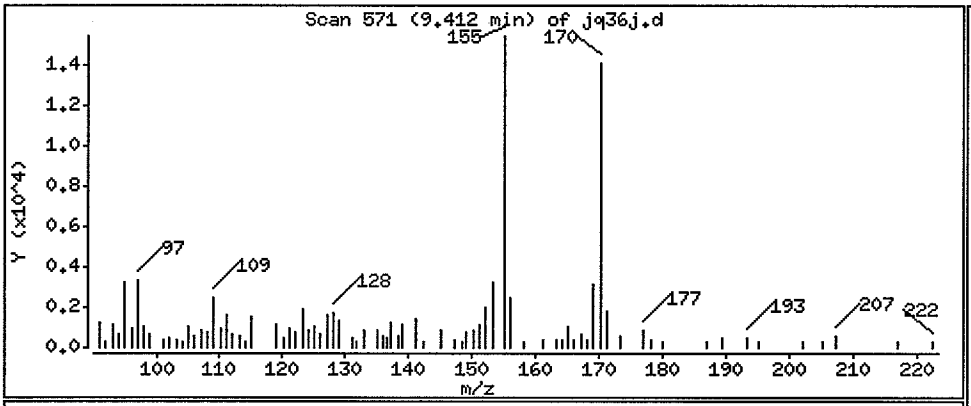
Operator: VTS

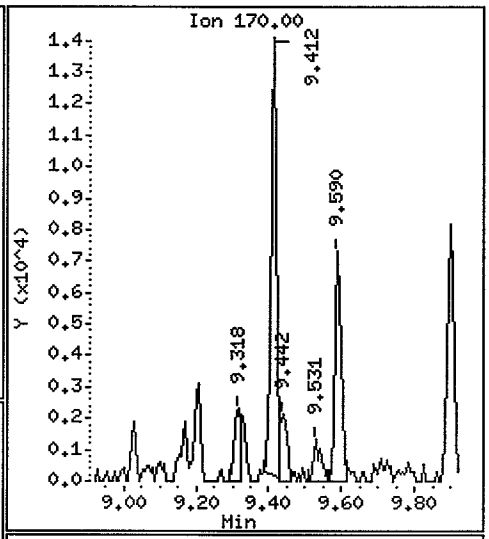
Column phase: ZB-5

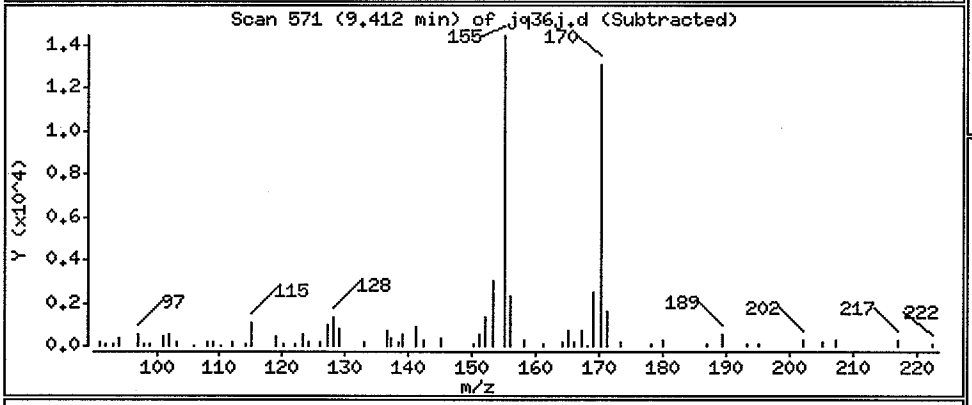
Column diameter: 0.25

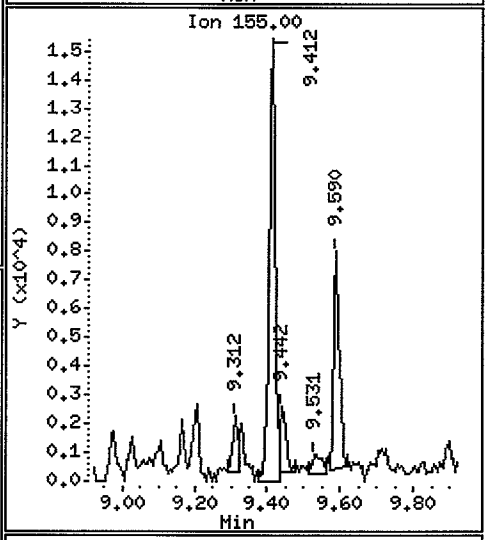
50 2,3,5-Trimethylnaphthalene

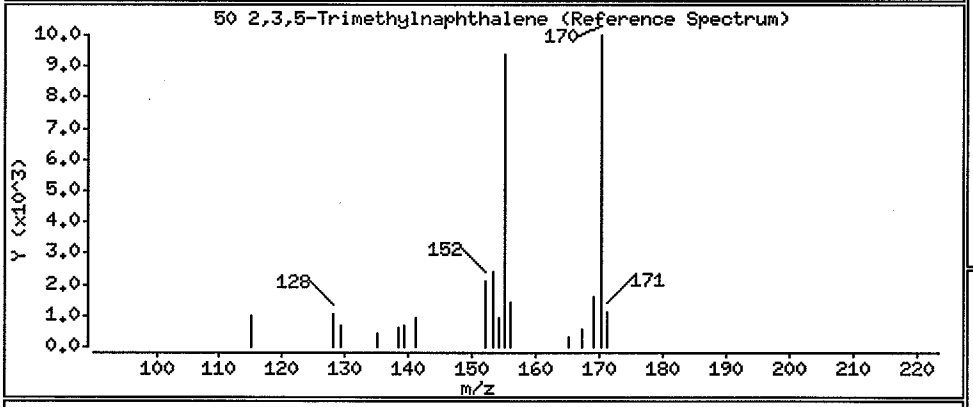
Concentration: 12.55 ug/kg

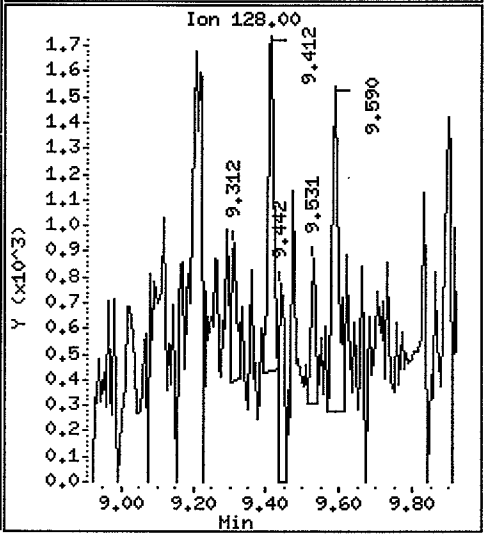


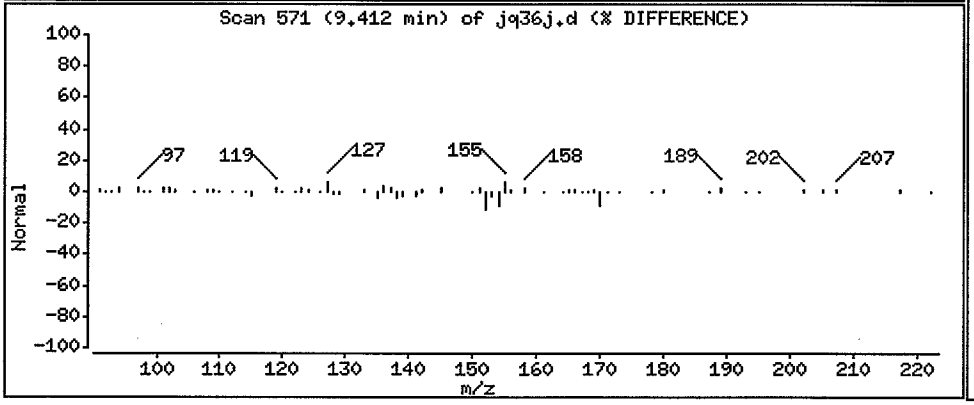












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

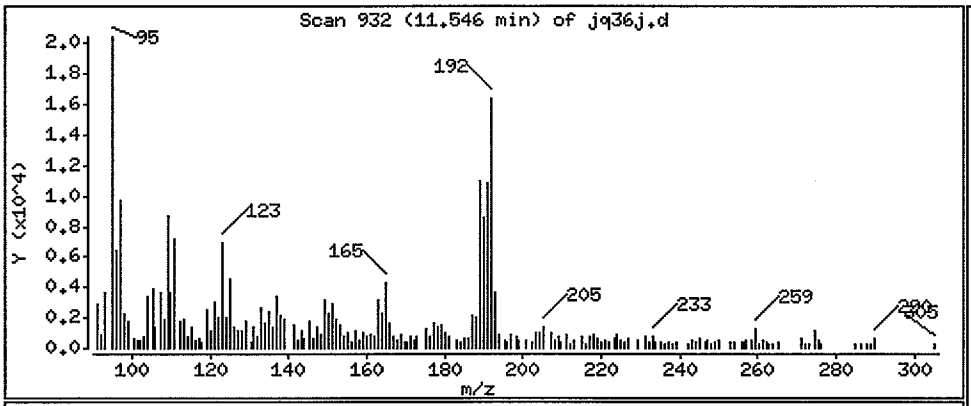
Operator: VTS

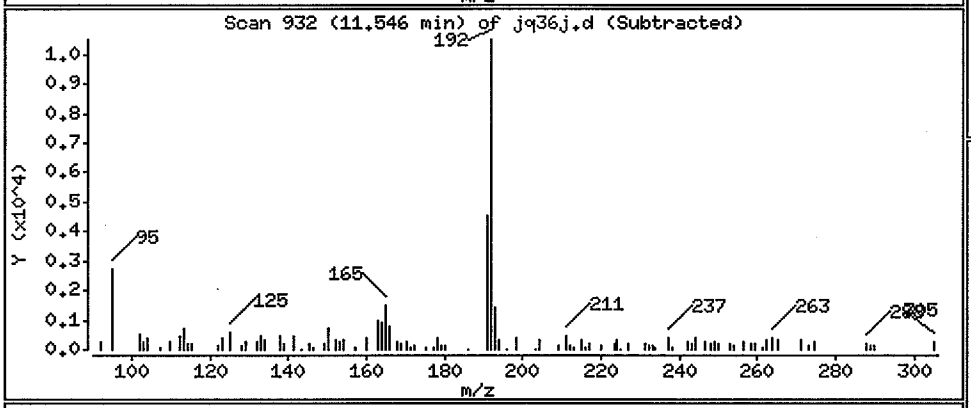
Column phase: ZB-5

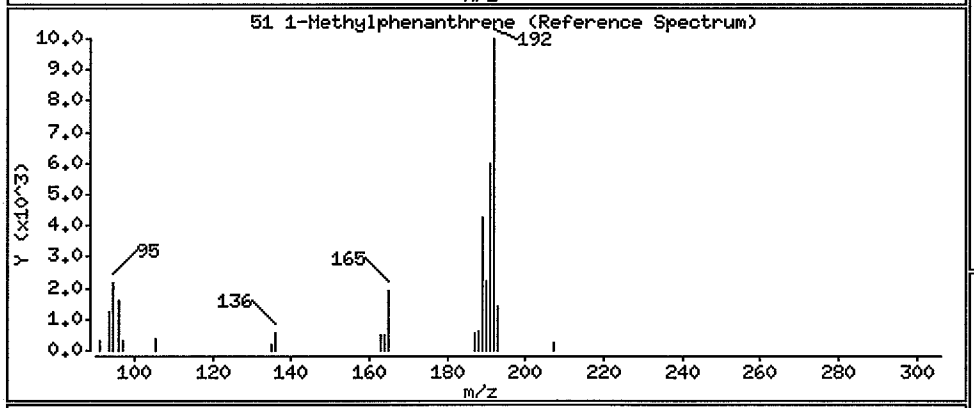
Column diameter: 0.25

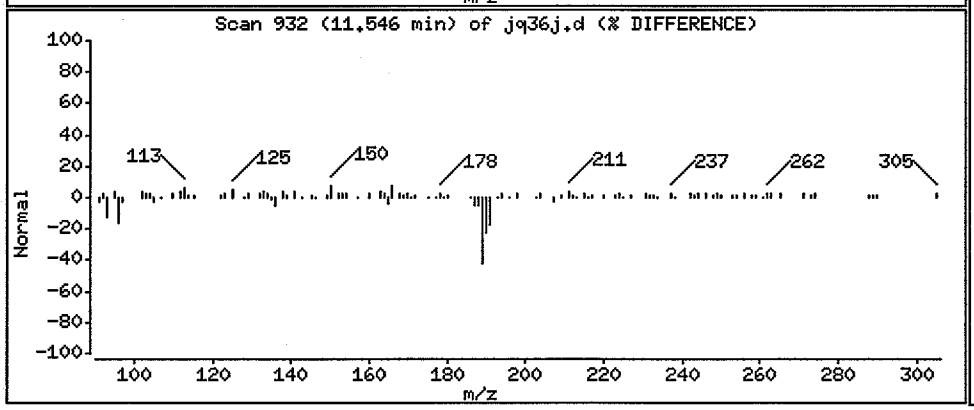
51 1-Methylphenanthrene

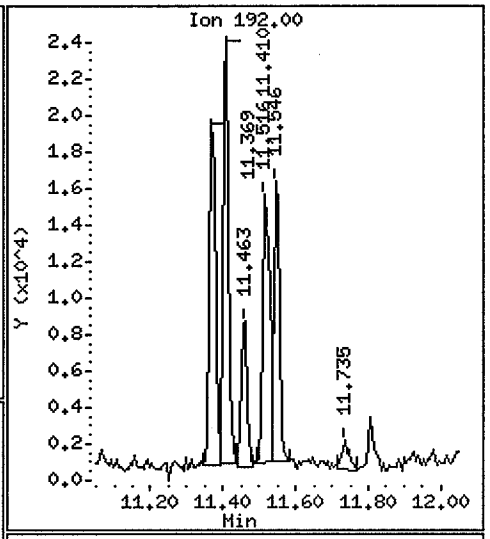
Concentration: 10.36 ug/kg

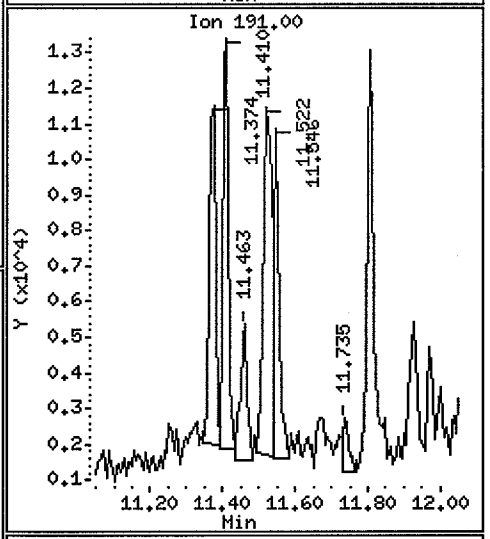


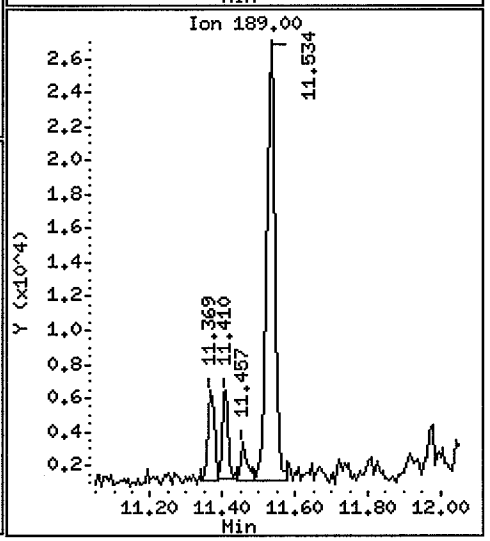












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

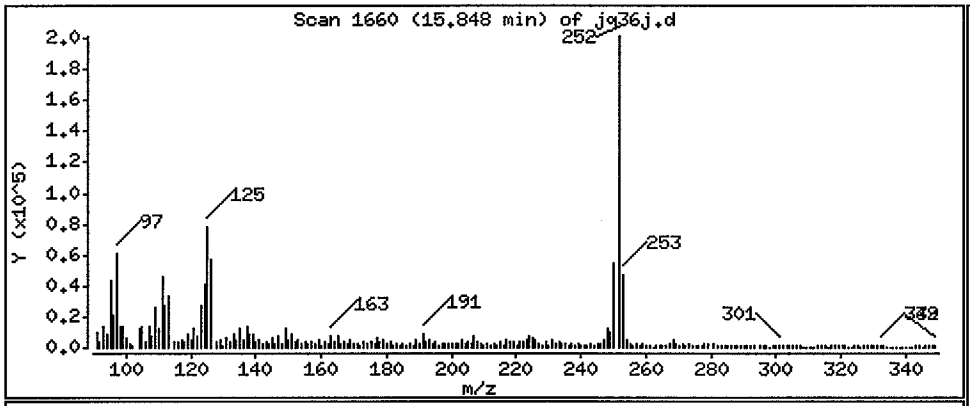
Operator: VTS

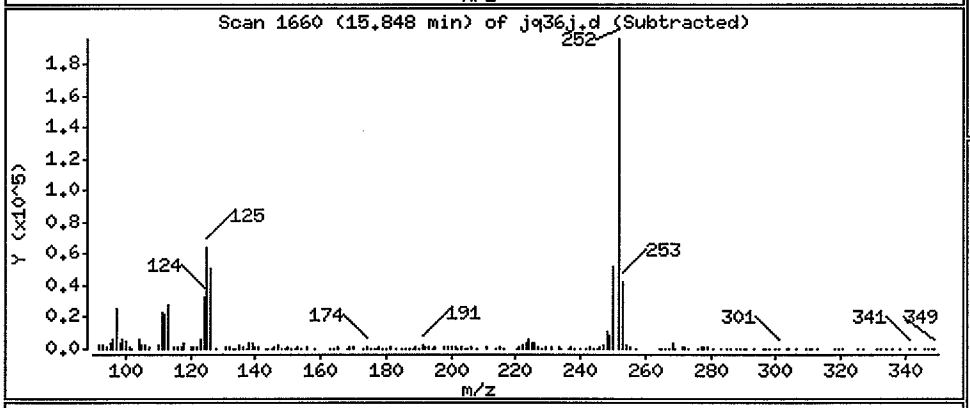
Column phase: ZB-5

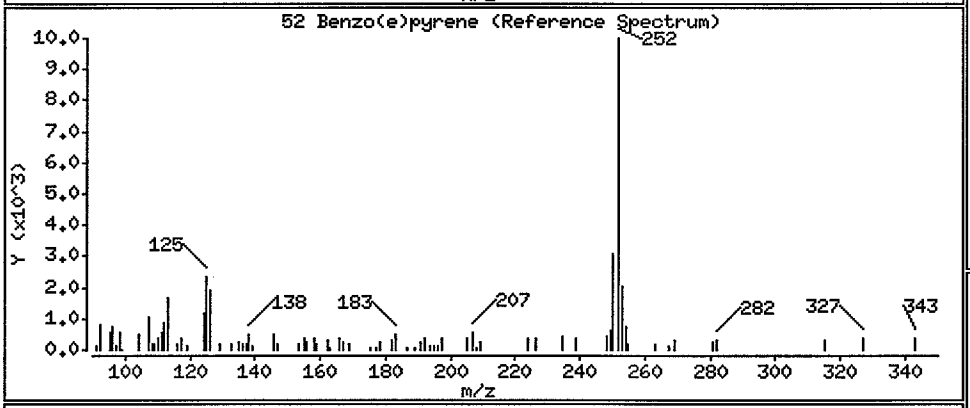
Column diameter: 0.25

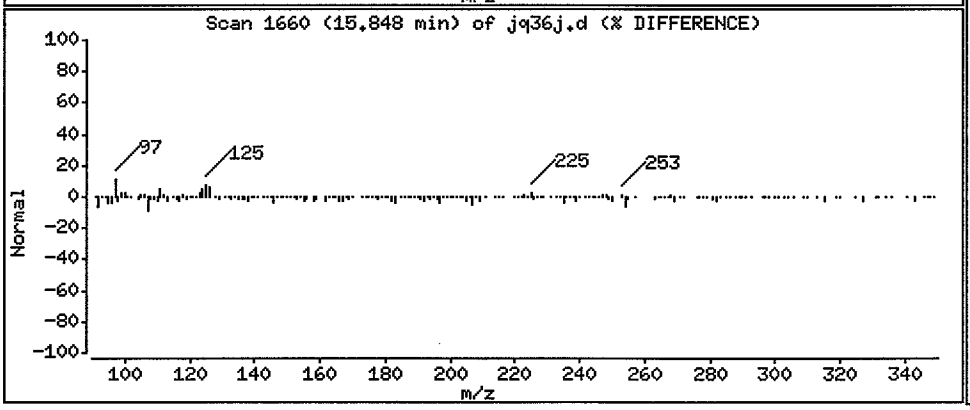
52 Benzo(e)pyrene

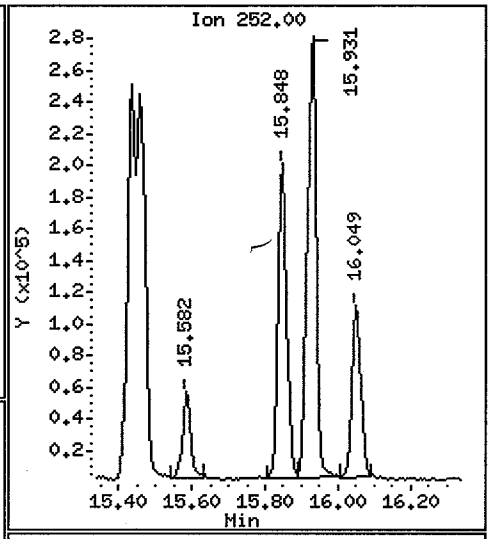
Concentration: 120.9 ug/kg

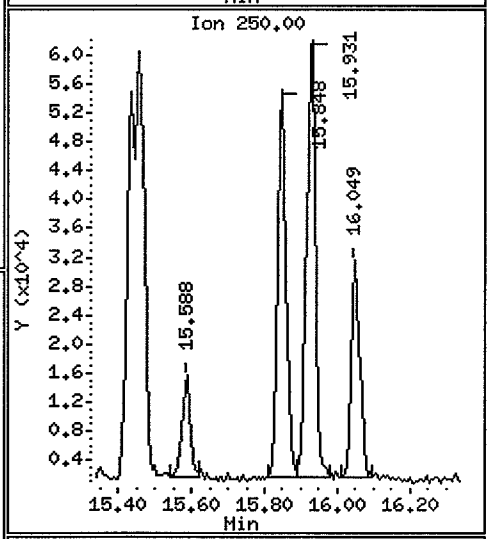


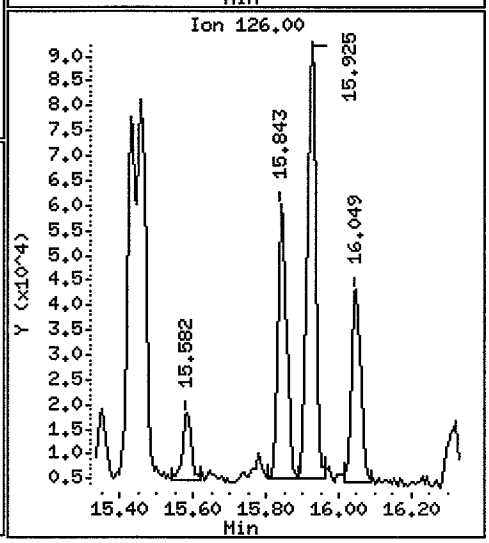












Data File: /chem3/nt1.i/20060810.b/jq36j.d

Date : 10-AUG-2006 19:10

Client ID: T4-WB-02

Instrument: nt1.i

Sample Info: JQ36J

Volume Injected (uL): 1.0

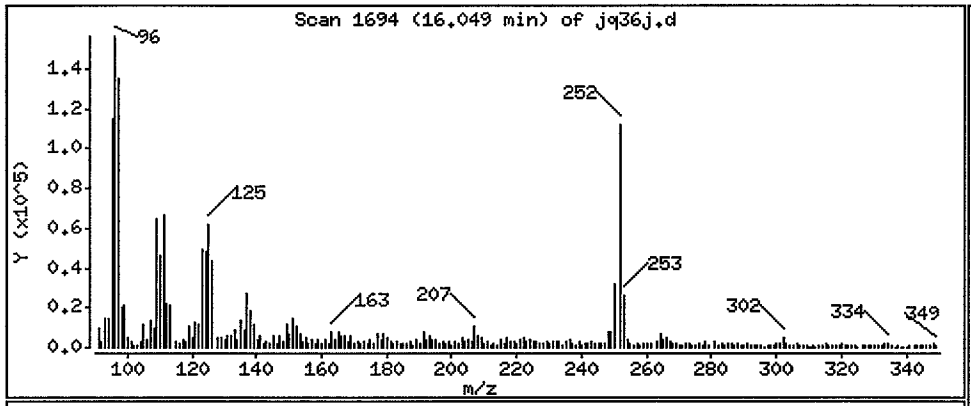
Operator: VTS

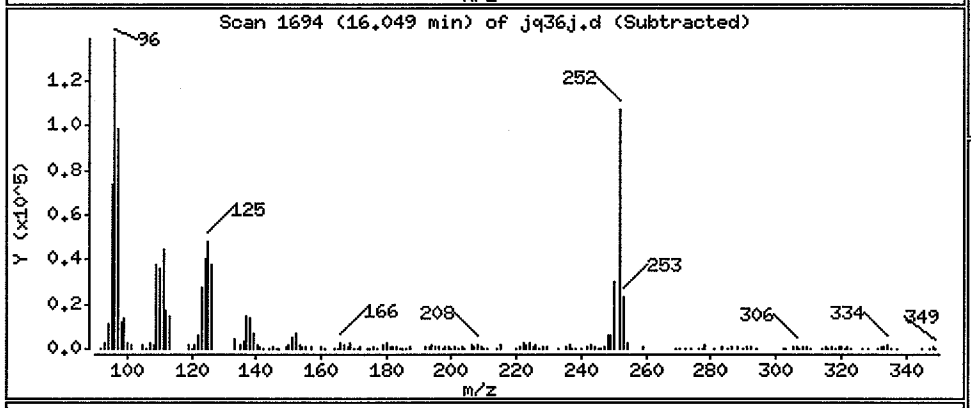
Column phase: ZB-5

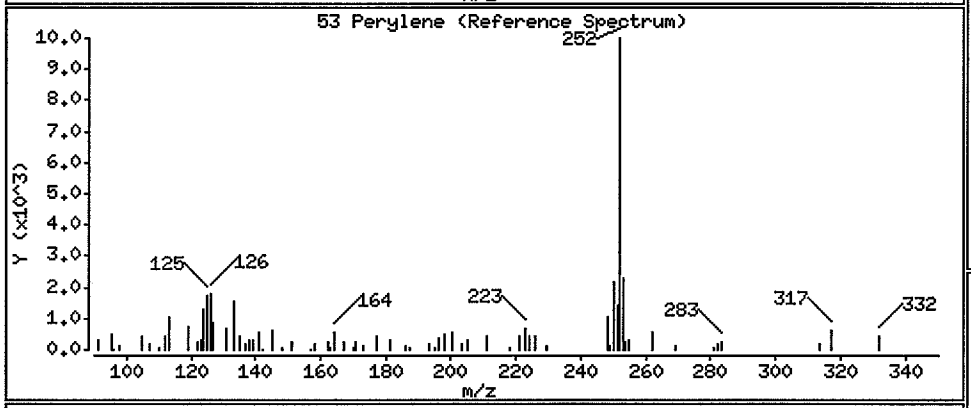
Column diameter: 0.25

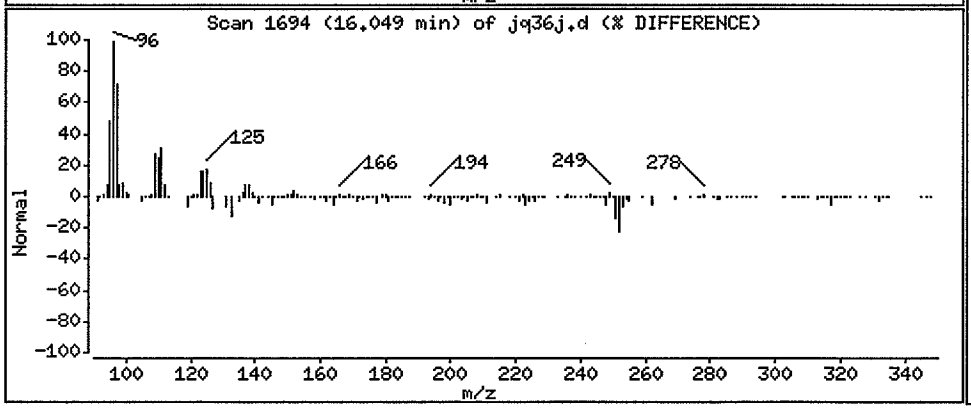
53 Perylene

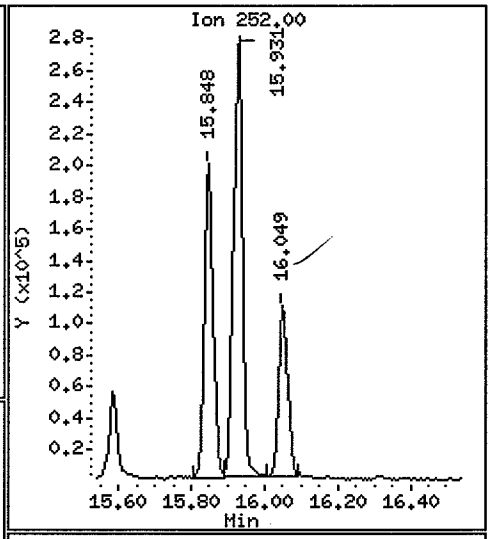
Concentration: 70.74 ug/kg

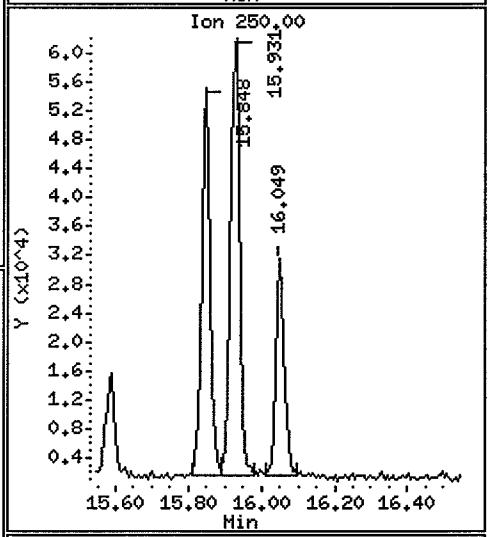


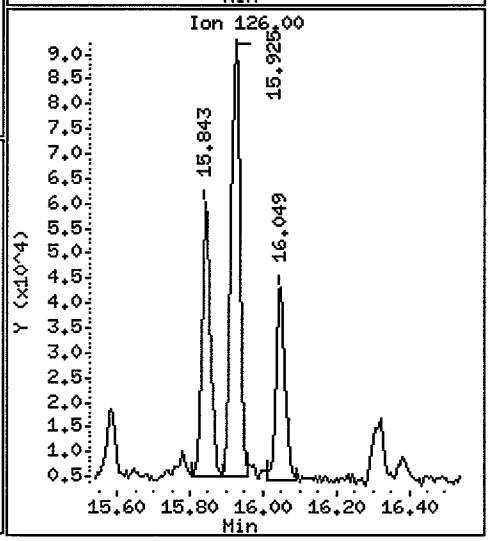












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-WB-03
SAMPLE

Lab Sample ID: JQ36K
LIMS ID: 06-12982
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 19:35
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 55.1%
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	25
91-57-6	2-Methylnaphthalene	5.0	12
90-12-0	1-Methylnaphthalene	5.0	5.9
208-96-8	Acenaphthylene	5.0	15
83-32-9	Acenaphthene	5.0	32
86-73-7	Fluorene	5.0	25
85-01-8	Phenanthrene	5.0	190
120-12-7	Anthracene	5.0	79
206-44-0	Fluoranthene	5.0	460
129-00-0	Pyrene	5.0	440
56-55-3	Benzo(a)anthracene	5.0	230
218-01-9	Chrysene	5.0	330
205-99-2	Benzo(b)fluoranthene	5.0	300
207-08-9	Benzo(k)fluoranthene	5.0	260
50-32-8	Benzo(a)pyrene	5.0	310
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	120
53-70-3	Dibenz(a,h)anthracene	5.0	42
191-24-2	Benzo(g,h,i)perylene	5.0	140
198-55-0	Perylene	5.0	150
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	6.9
832-69-9	1-Methylphenanthrene	5.0	16
192-97-2	Benzo(e)pyrene	5.0	200
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	5.0

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	54.3%
d14-Dibenzo(a,h)anthracen	44.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36k.d
Lab Smp Id: JQ36K Client Smp ID: T4-WB-03
Inj Date : 10-AUG-2006 19:35
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36K
Misc Info : 06-12982
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 11
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	22.50000	Weight of sample extracted (g)
M	55.10000	% 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	6.872	6.874	(1.000)	291689	2.00000	
	2 Naphthalene	128	6.896	6.898	(1.003)	72298	0.49692	24.59
$	3 2-Methylnaphthalene-d10	152	7.628	7.630	(1.110)	122642	1.63240	80.79
	4 2-Methylnaphthalene	142	7.670	7.666	(1.116)	21001	0.24374	12.06
	5 1-Methylnaphthalene	142	7.800	7.796	(1.135)	11229	0.12424	6.149
	7 Acenaphthylene	152	8.757	8.753	(0.980)	37295	0.30245	14.97
*	8 Acenaphthene-d10	164	8.935	8.937	(1.000)	148728	2.00000	
	9 Acenaphthene	153	8.976	8.972	(1.005)	47688	0.65301	32.32
	10 Dibenzofuran	168	9.165	9.161	(1.026)	21208	0.19716	9.758
	11 Fluorene	166	9.585	9.587	(1.073)	42769	0.51073	25.28
*	15 Phenanthrene-d10	188	10.749	10.745	(1.000)	228935	2.00000	
	16 Phenanthrene	178	10.779	10.775	(1.003)	444414	3.78197	187.2
	17 Anthracene	178	10.832	10.828	(1.008)	186410	1.58741	78.56
	19 Fluoranthene	202	12.274	12.270	(1.142)	1117935	9.32732	461.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.563	12.554	(0.893)	1253363	8.80192	435.6	
	22 Benzo(a)anthracene	228	14.041	14.037	(0.998)	609862	4.56693	226.0	
*	23 Chrysene-d12	240	14.065	14.055	(1.000)	221757	2.00000		
	24 Chrysene	228	14.094	14.090	(1.002)	819351	6.65218	329.2	
	28 Benzo(b)fluoranthene	252	15.436	15.426	(0.964)	801657	6.14468	304.1	
	29 Benzo(k)fluoranthene	252	15.465	15.455	(0.966)	717810	5.16088	255.4	
	30 Benzo(a)pyrene	252	15.932	15.916	(0.995)	789485	6.21035	307.4	
*	31 Perylene-d12	264	16.015	15.999	(1.000)	231164	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.983	17.949	(1.123)	368381	2.51984	124.7	
$	32 Dibenz(a,h)anthrancene-d14	292	17.906	17.873	(1.118)	116938	1.32184	65.42	
	34 Dibenz(a,h)anthracene	278	17.959	17.944	(1.121)	101695	0.85151	42.14	
	35 Benzo(g,h,i)perylene	276	18.562	18.529	(1.159)	338750	2.78753	138.0	
	48 Biphenyl	154	8.202	8.204	(0.918)	8387	0.09127	4.517	J
	49 2,6-Dimethylnaphthalene	156	8.403	8.399	(0.940)	9897	0.13675	6.768	
	50 2,3,5-Trimethylnaphthalene	170	9.413	9.421	(1.054)	5759	0.09715	4.808	J
	51 1-Methylphenanthrene	192	11.547	11.549	(0.821)	29470	0.32466	16.07	
	52 Benzo(e)pyrene	252	15.855	15.840	(0.990)	559052	3.97291	196.6	
	53 Perylene	252	16.056	16.040	(1.003)	398326	3.01483	149.2	

VTS

8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36k.d
Lab Smp Id: JQ36K
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12982

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-WB-03
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	291689	15.20
8 Acenaphthene-d10	122198	61099	244396	148728	21.71
15 Phenanthrene-d10	181565	90782	363130	228935	26.09
23 Chrysene-d12	143956	71978	287912	221757	54.04
31 Perylene-d12	157395	78698	314790	231164	46.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.03
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.04
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.07
31 Perylene-d12	16.00	15.50	16.50	16.01	0.10

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

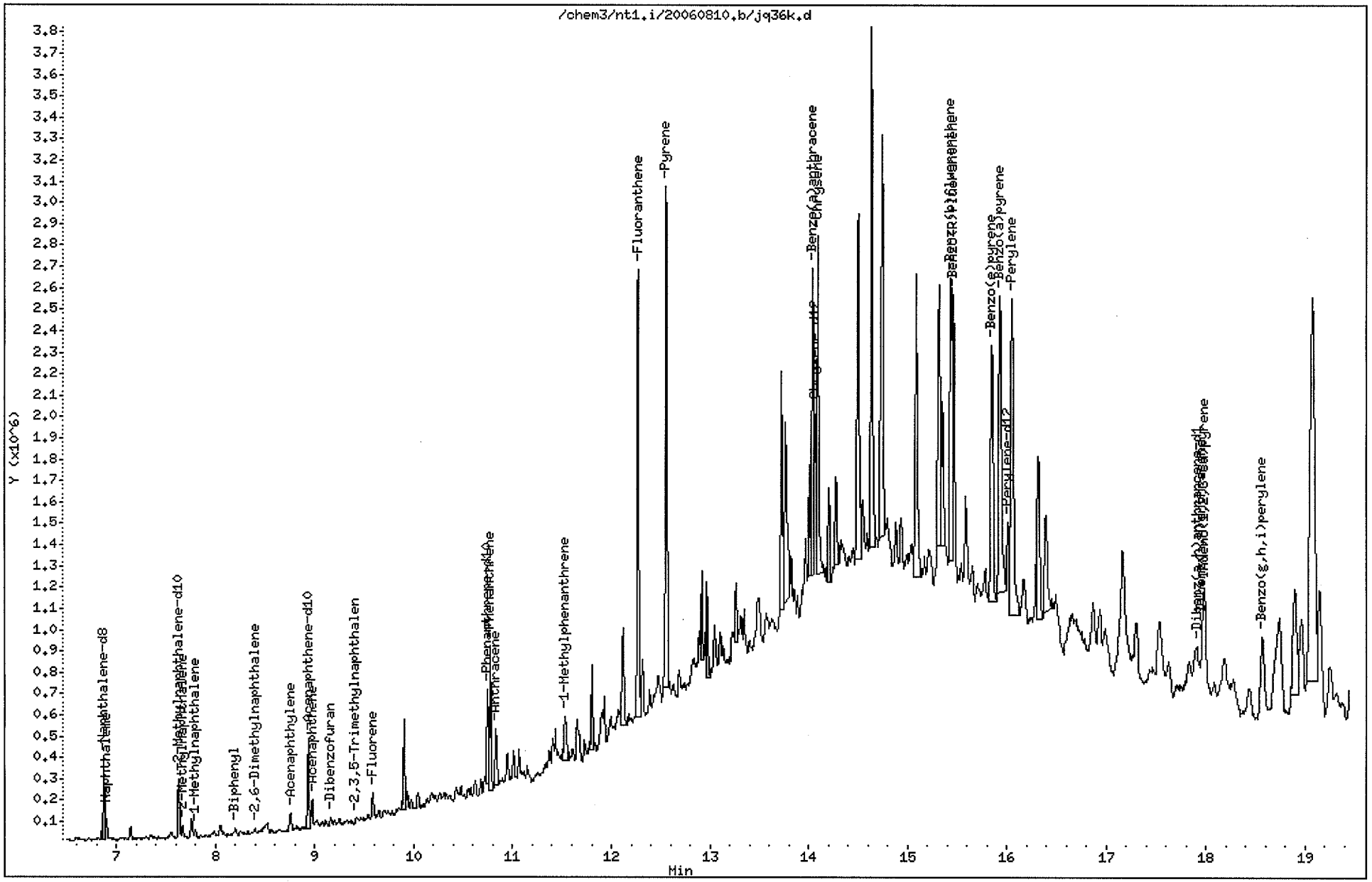
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36K
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12982

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-WB-03
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.5	80.79	54.41	32-97
$ 32 Dibenz(a,h)anthran	148.5	65.42	44.06	21-105

Data File: /chem3/nt1.i/20060810.b/jq36k.d
Date : 10-AUG-2006 19:35
Client ID: T4-WB-03
Sample Info: JQ36K
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0501

Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

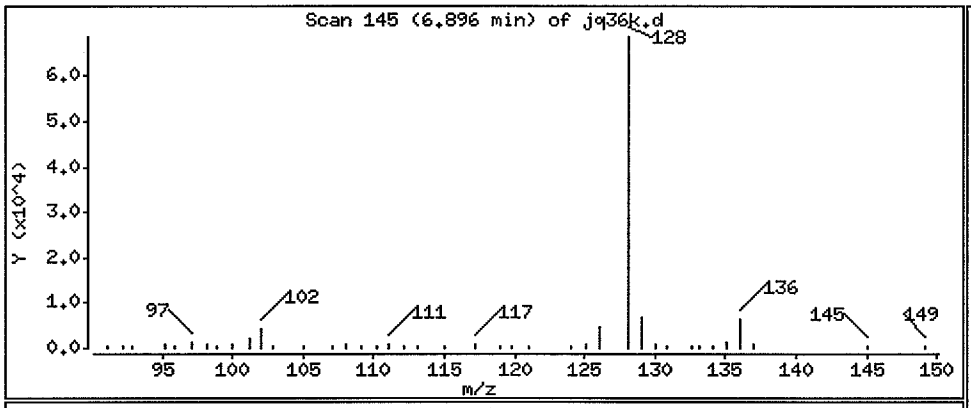
Client ID: T4-WB-03 Instrument: nt1.i

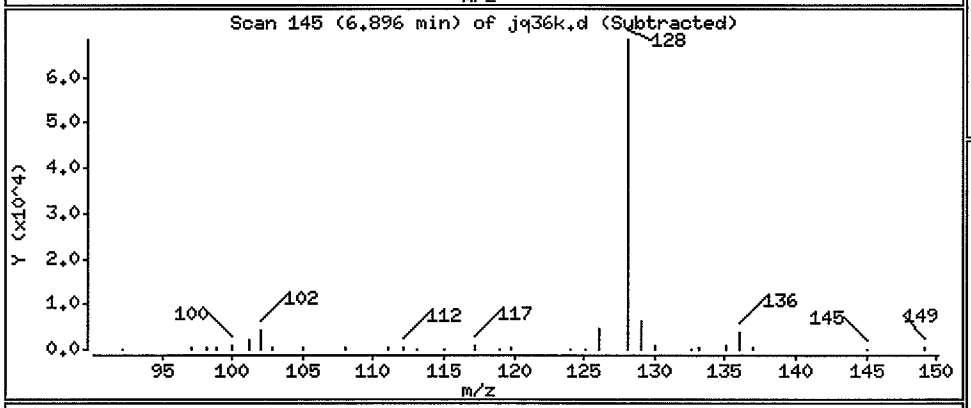
Sample Info: JQ36K

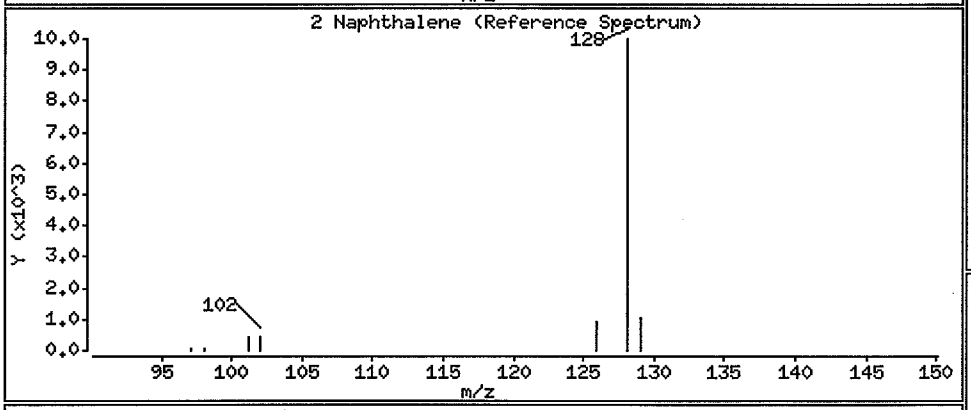
Volume Injected (uL): 1.0 Operator: VTS

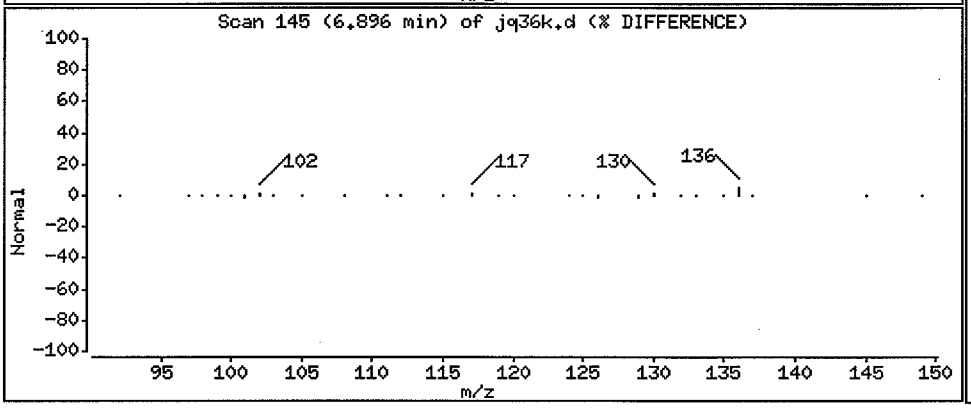
Column phase: ZB-5 Column diameter: 0.25

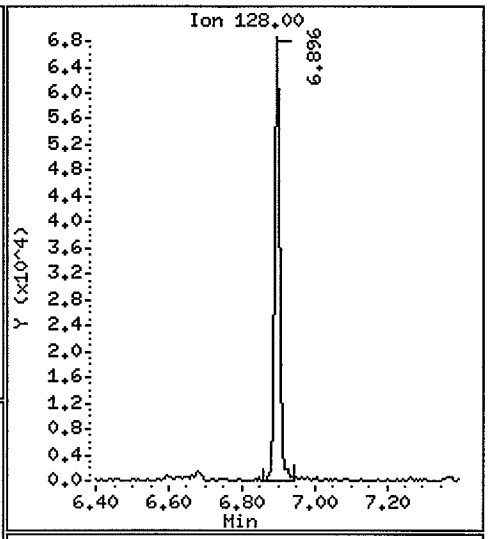
2 Naphthalene Concentration: 24.59 ug/kg

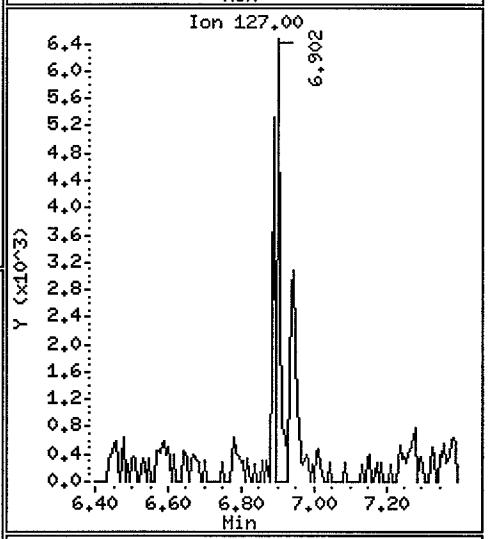


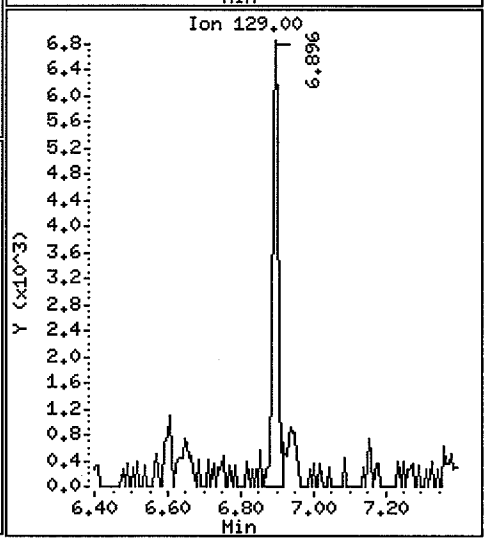












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

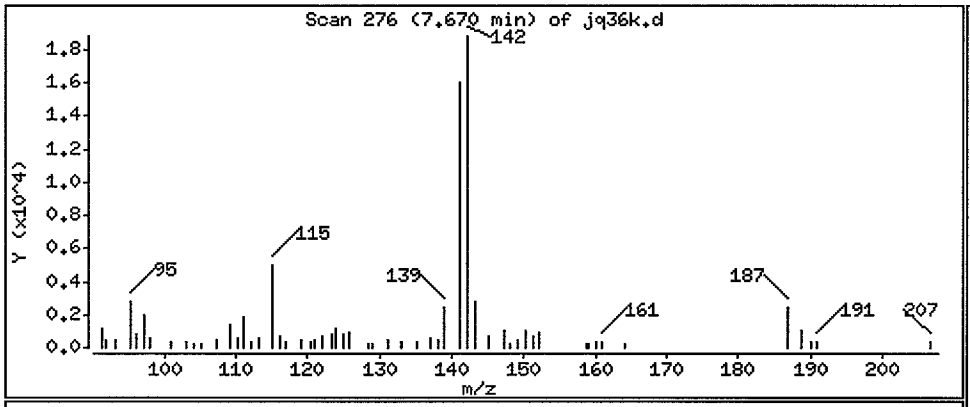
Operator: VTS

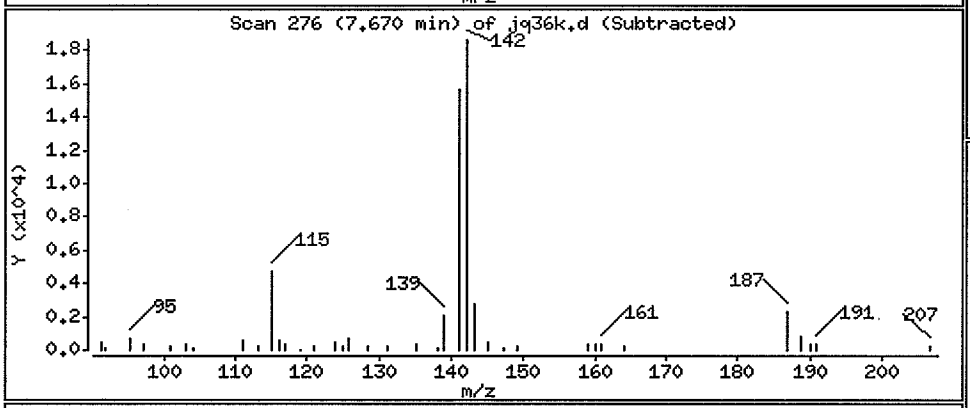
Column phase: ZB-5

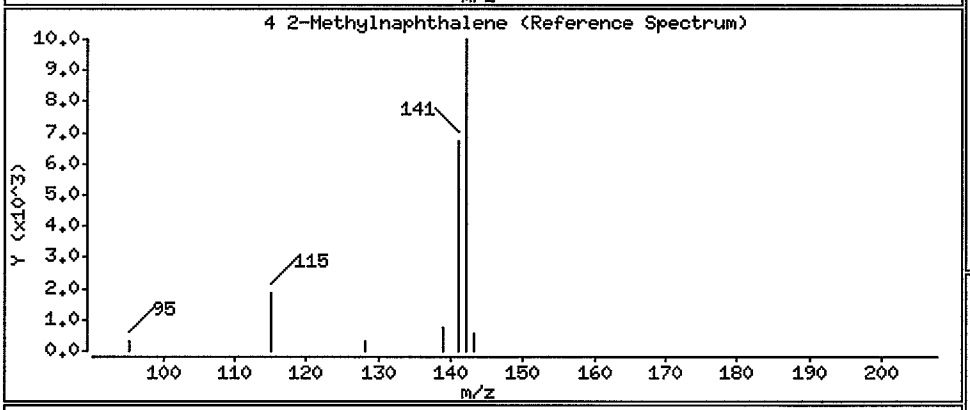
Column diameter: 0.25

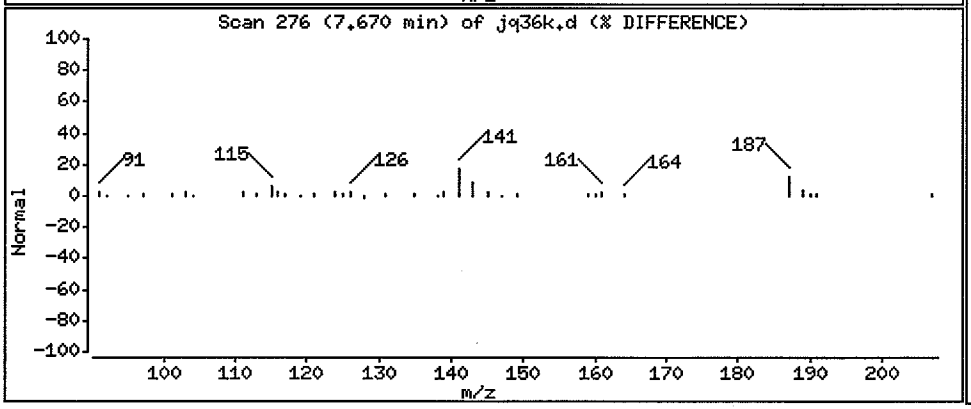
4 2-Methylnaphthalene

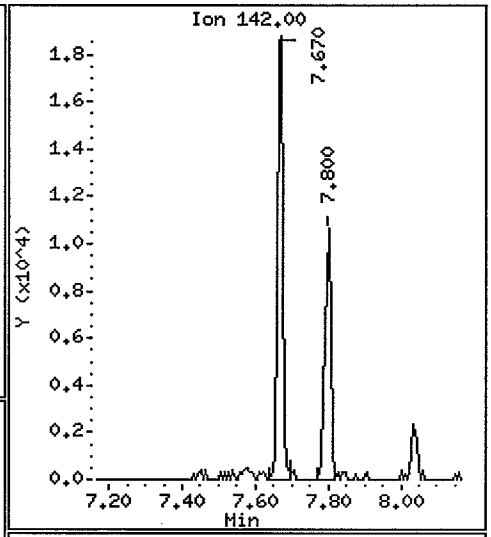
Concentration: 12.06 ug/kg

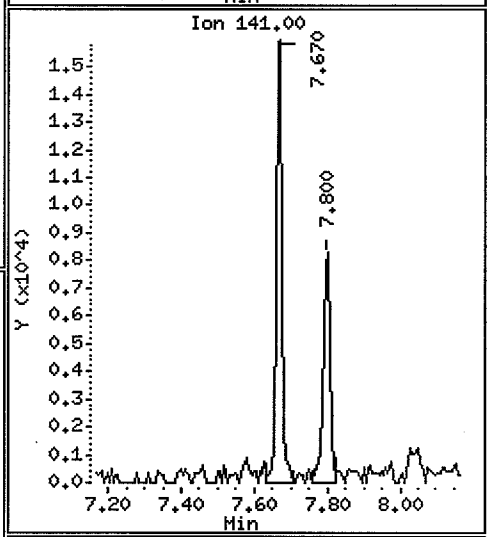


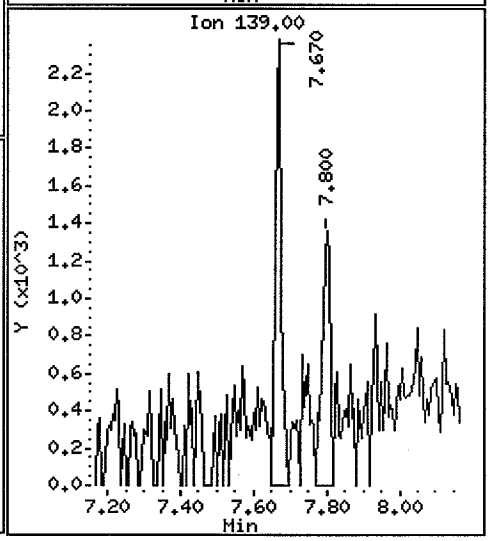












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

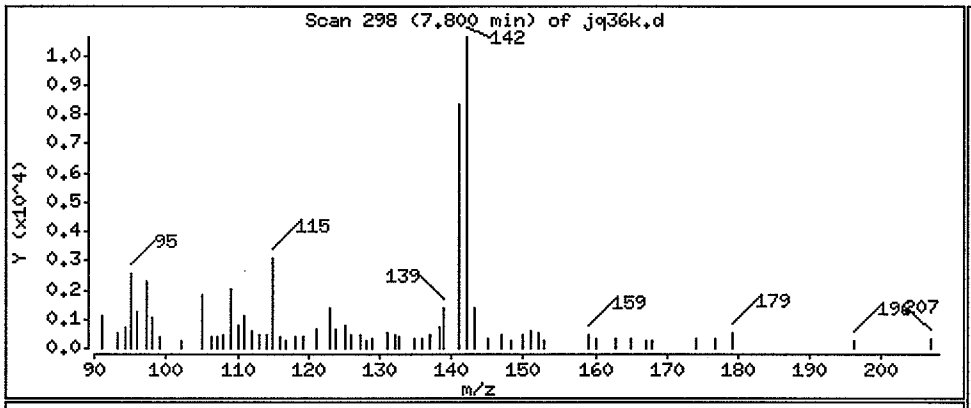
Operator: VTS

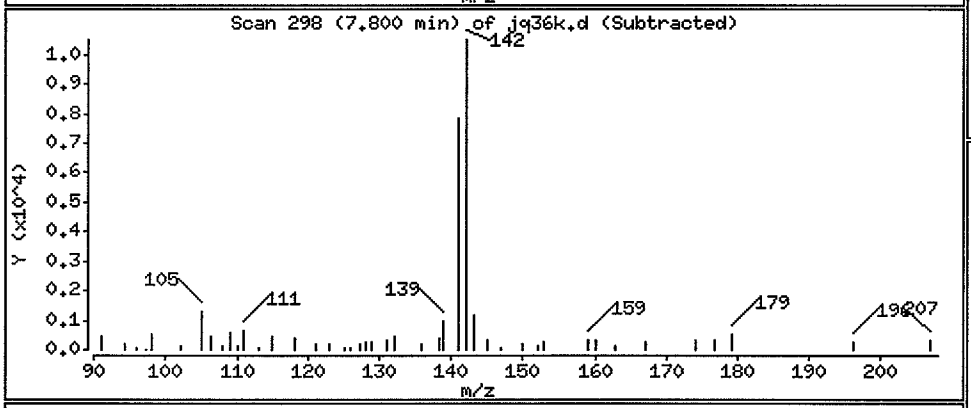
Column phase: ZB-5

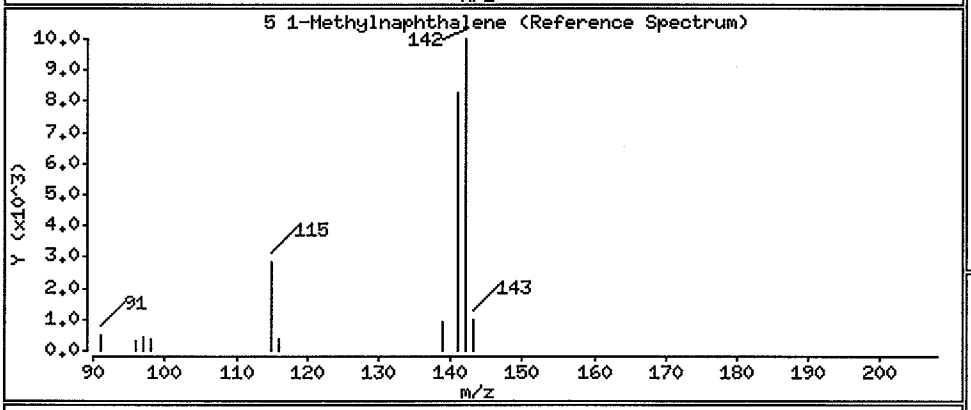
Column diameter: 0.25

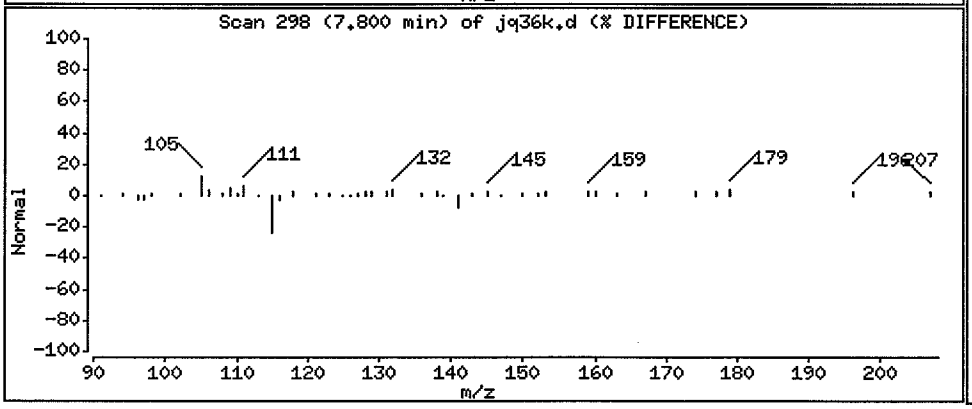
5 1-Methylnaphthalene

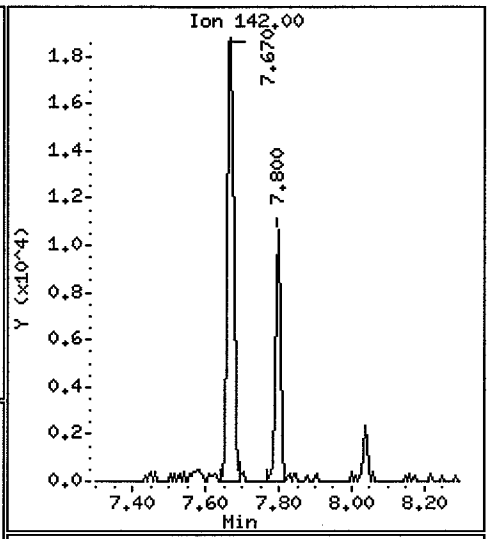
Concentration: 6.149 ug/kg

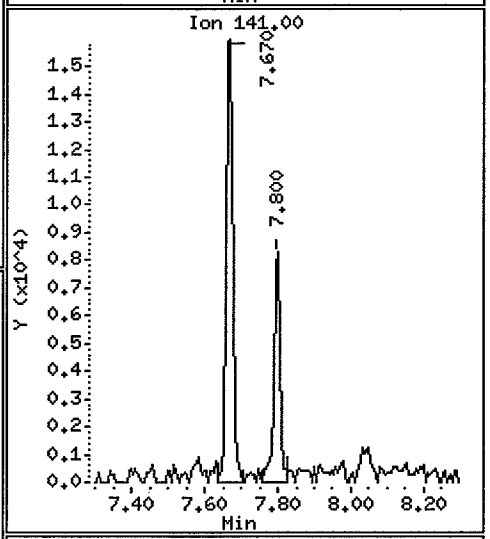


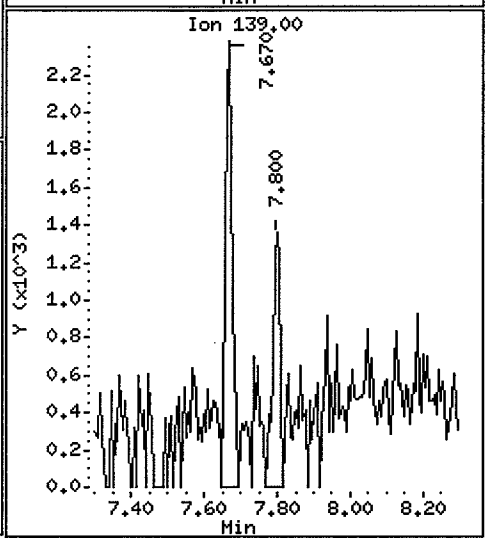












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

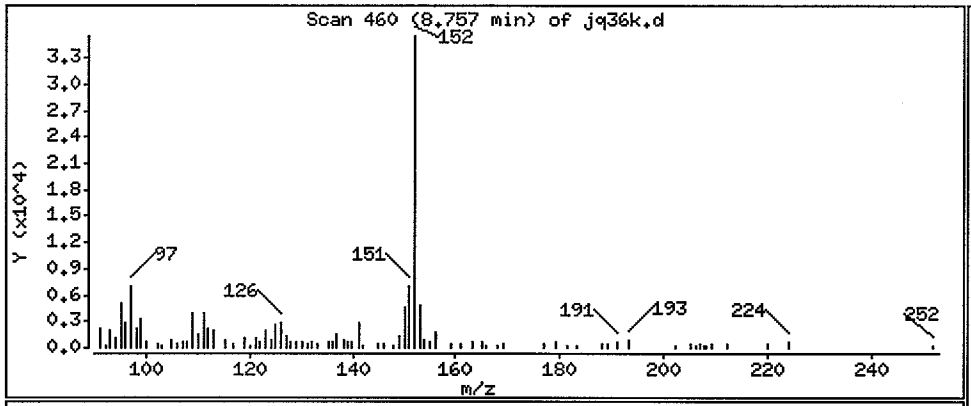
Operator: VTS

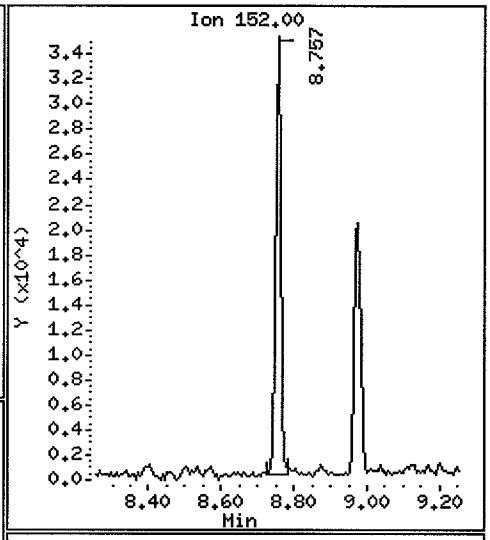
Column phase: ZB-5

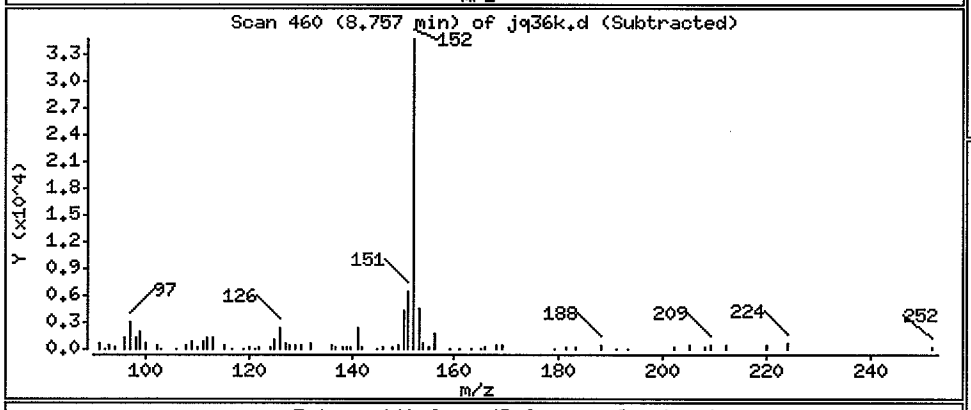
Column diameter: 0.25

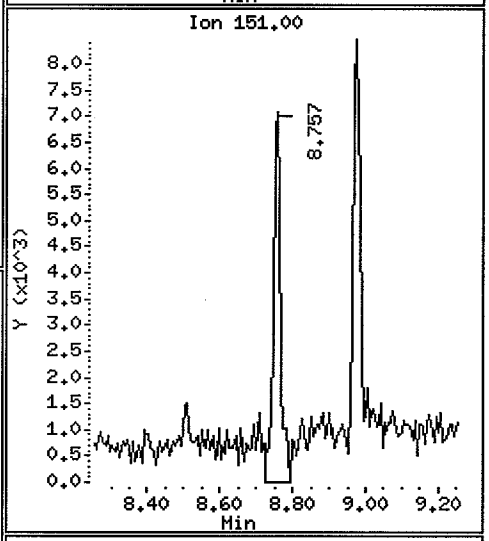
7 Acenaphthylene

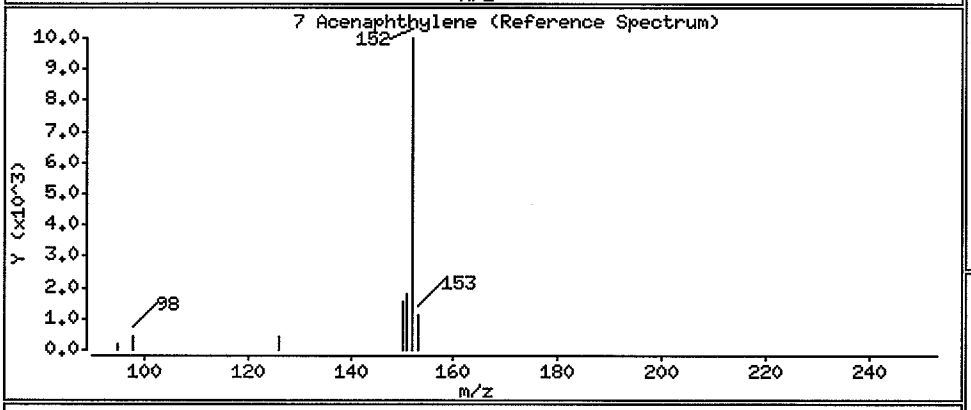
Concentration: 14.97 ug/kg

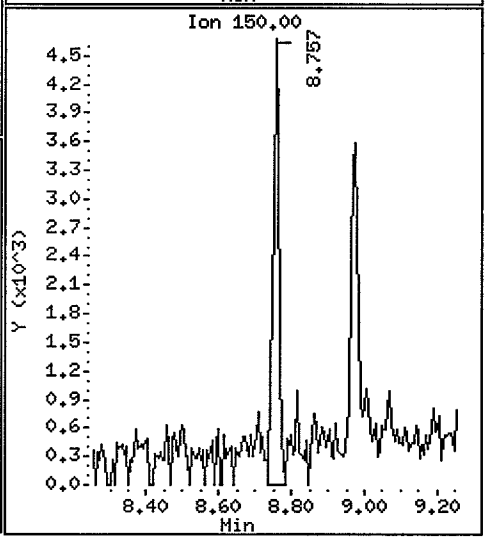


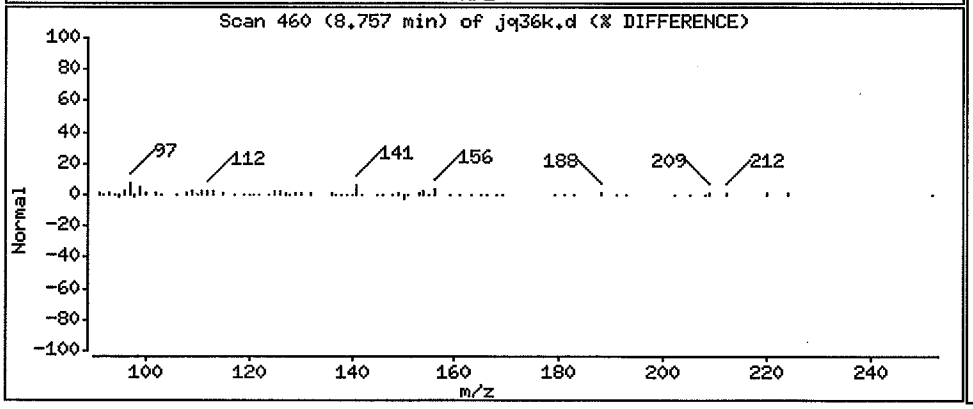












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

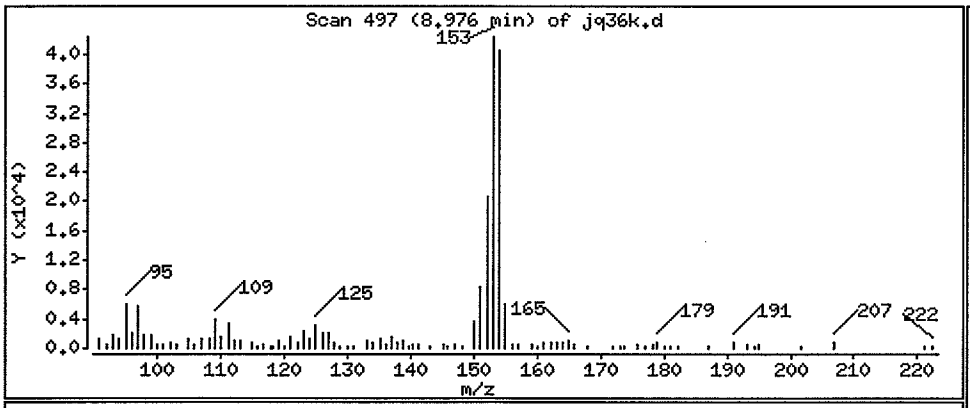
Operator: VTS

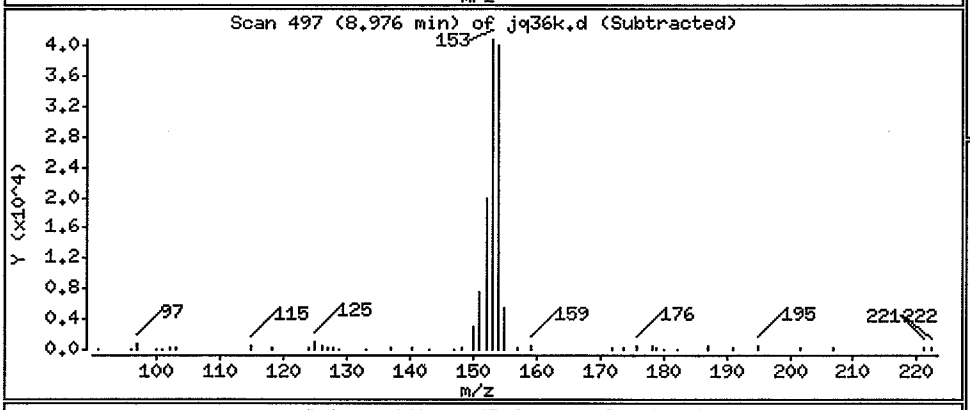
Column phase: ZB-5

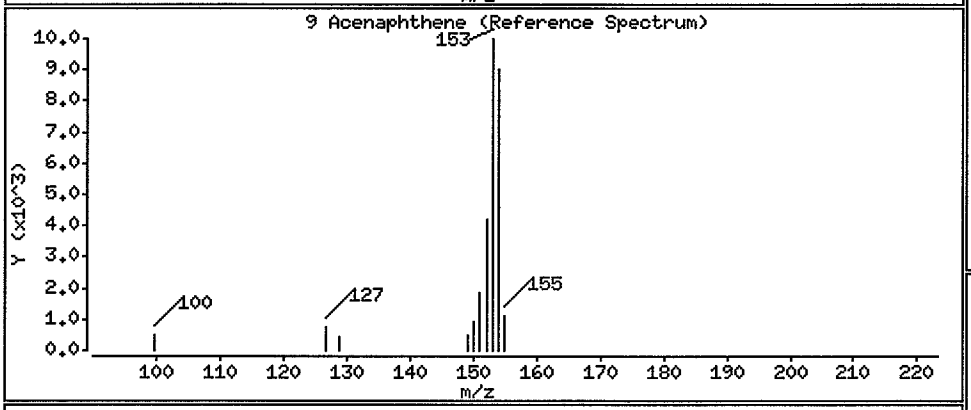
Column diameter: 0.25

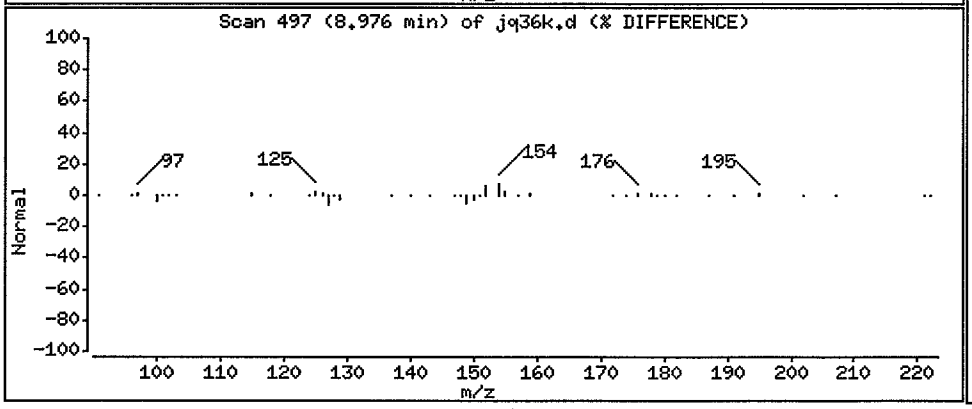
9 Acenaphthene

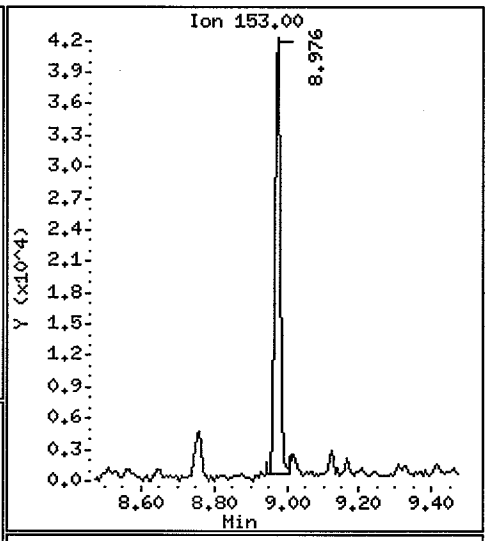
Concentration: 32.32 ug/kg

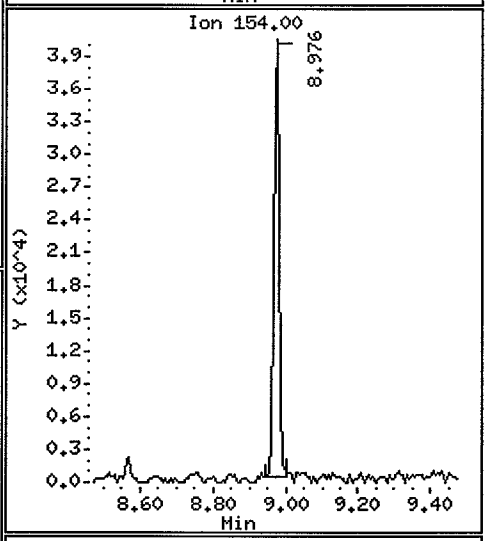


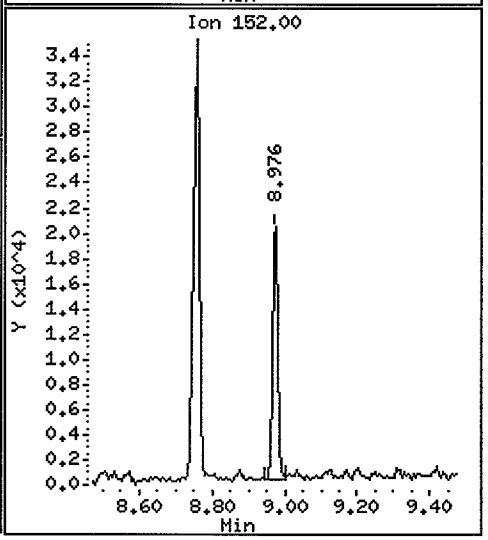












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

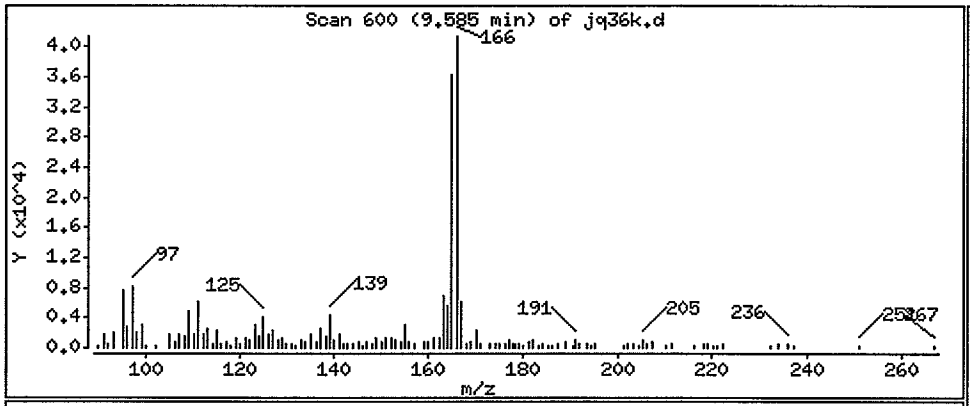
Operator: VTS

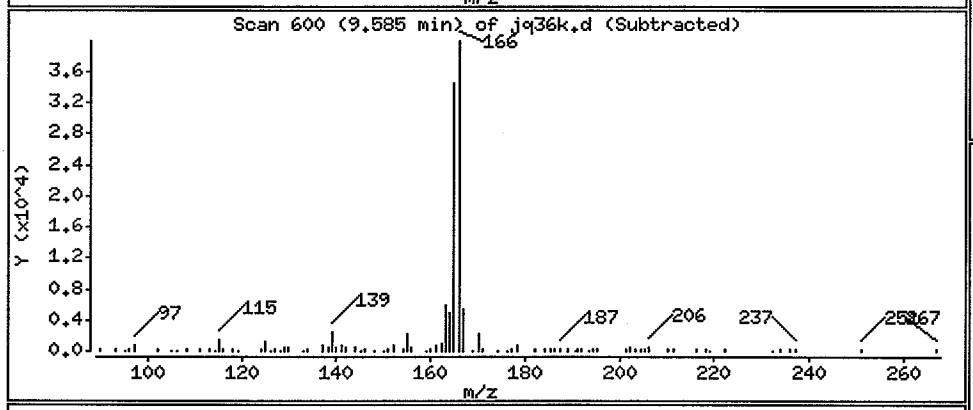
Column phase: ZB-5

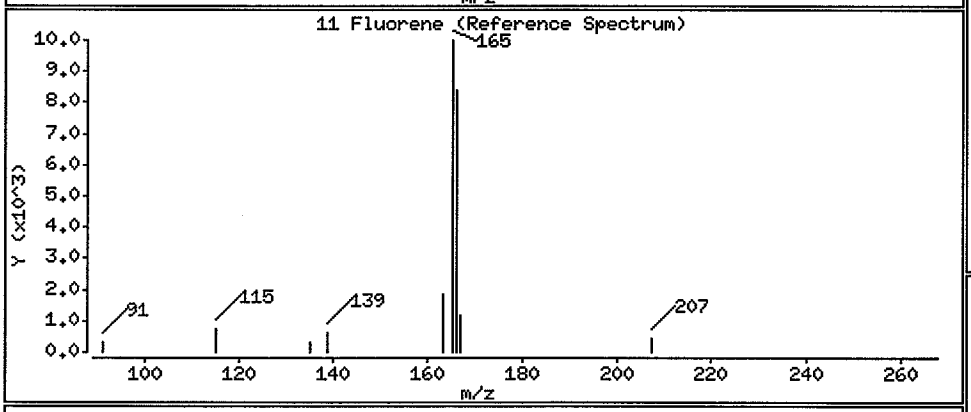
Column diameter: 0.25

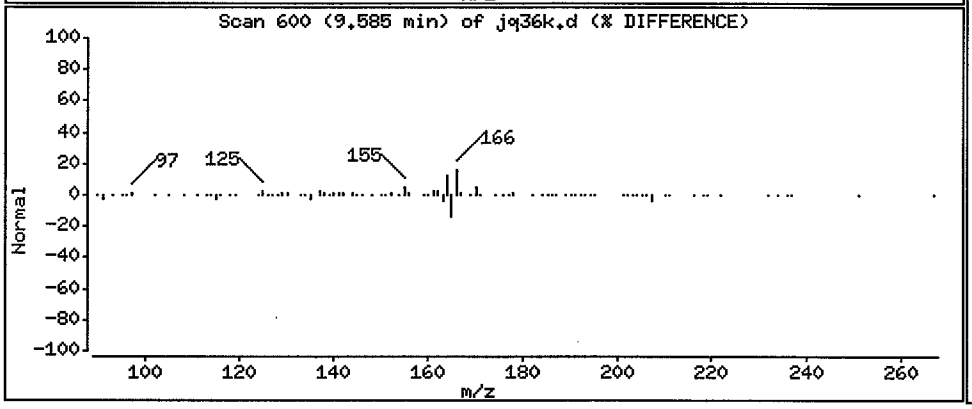
11 Fluorene

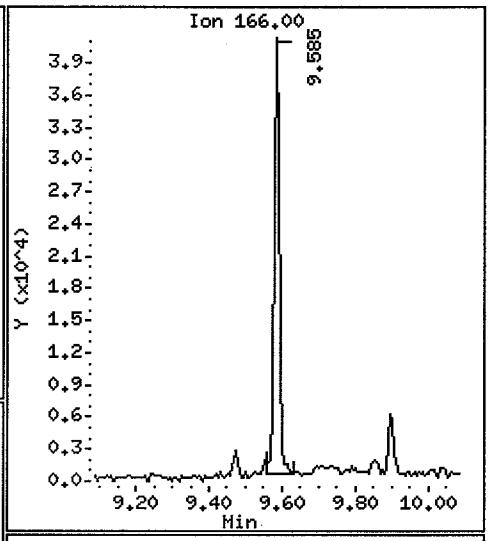
Concentration: 25.28 ug/kg

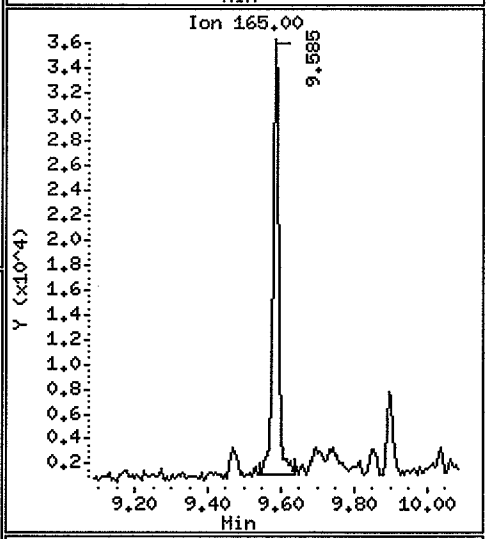


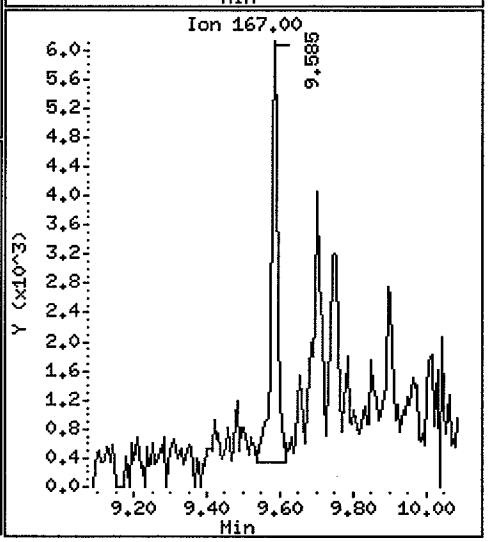












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

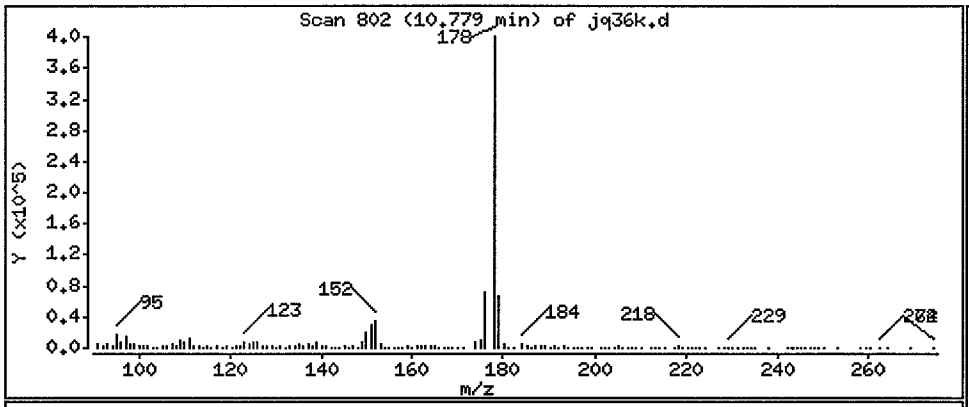
Client ID: T4-WB-03 Instrument: nt1.i

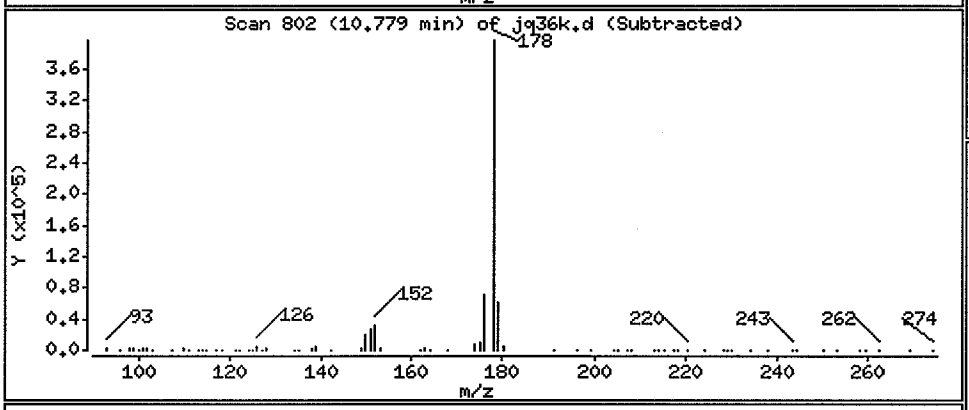
Sample Info: JQ36K

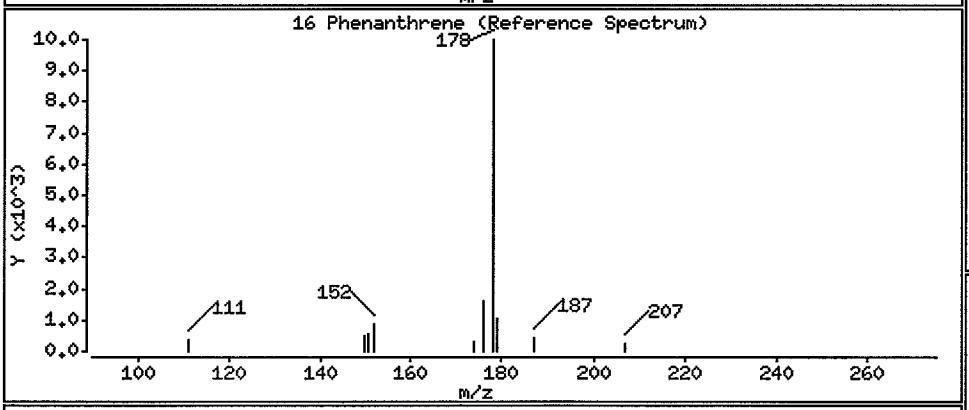
Volume Injected (uL): 1.0 Operator: VTS

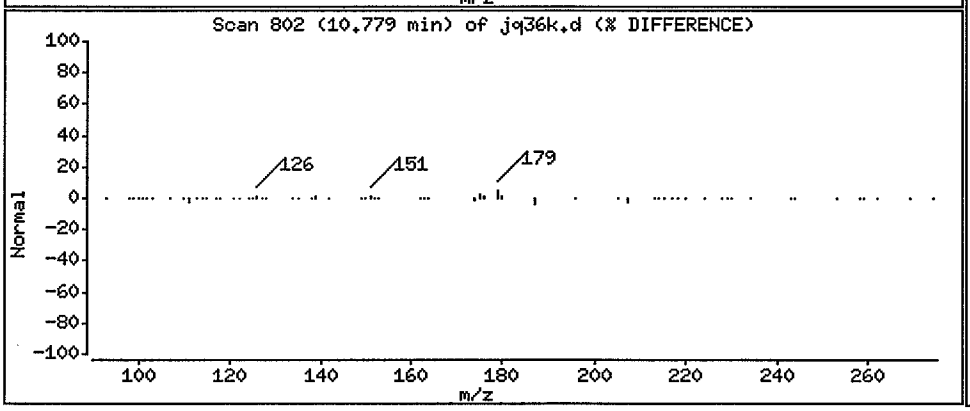
Column phase: ZB-5 Column diameter: 0.25

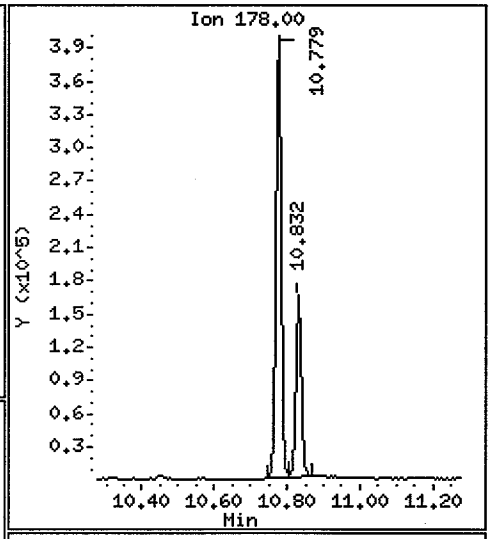
16 Phenanthrene Concentration: 187.2 ug/kg

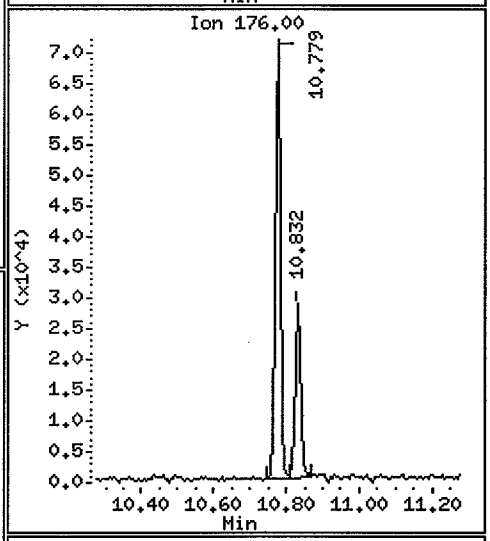


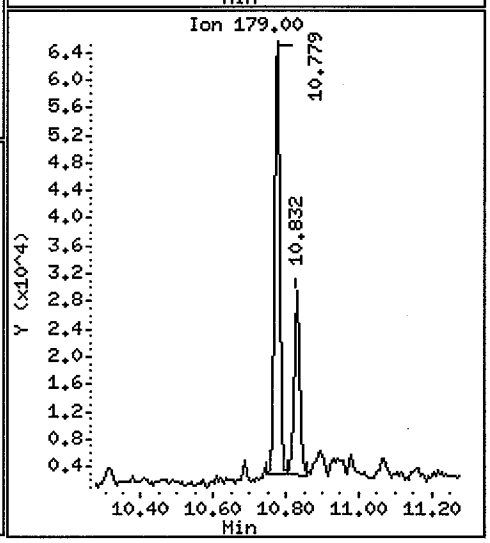












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

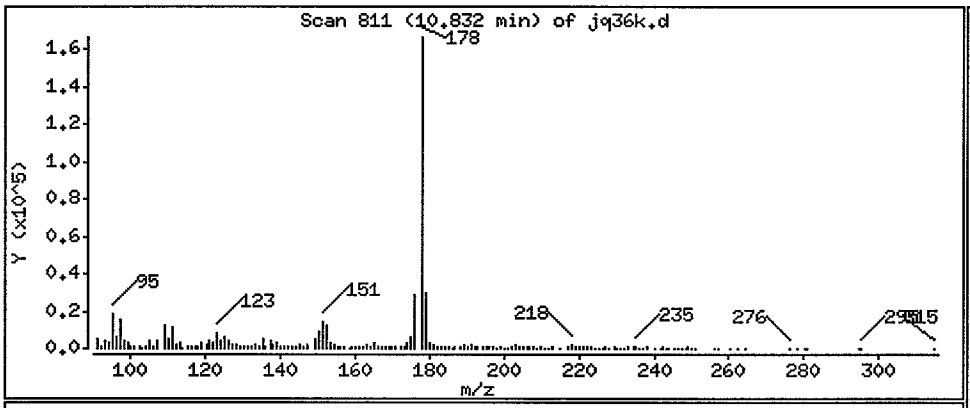
Operator: VTS

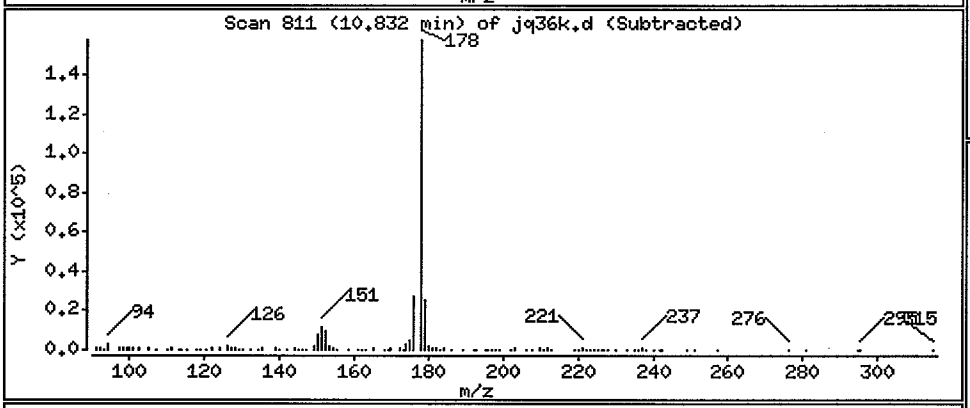
Column phase: ZB-5

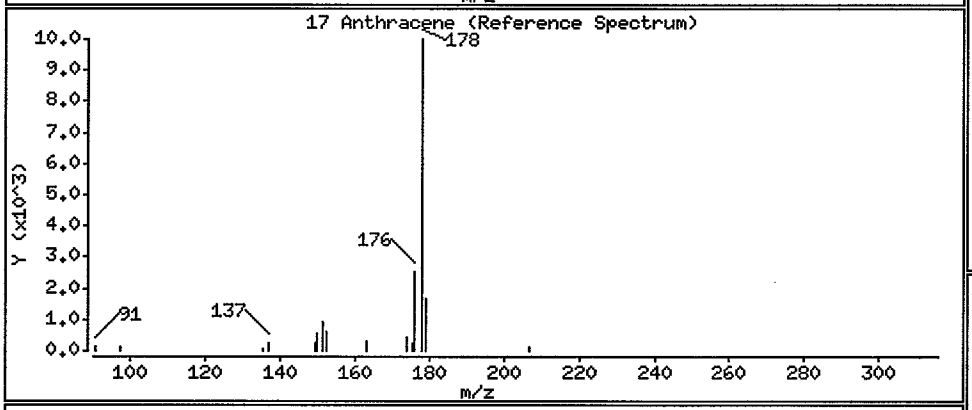
Column diameter: 0.25

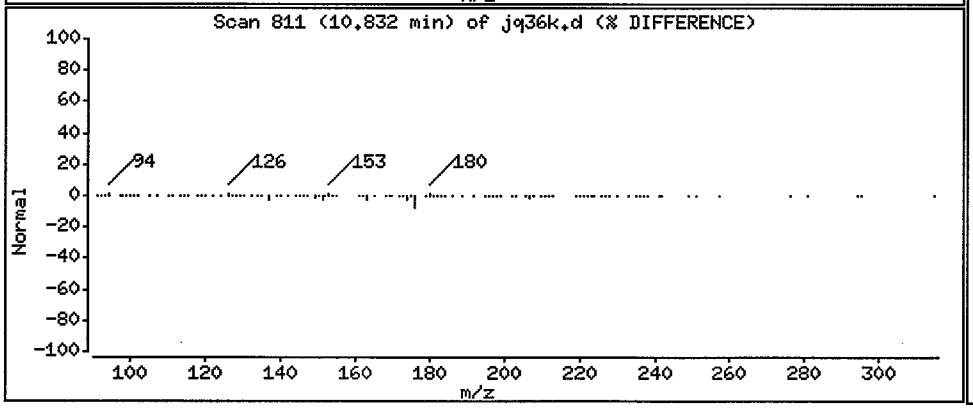
17 Anthracene

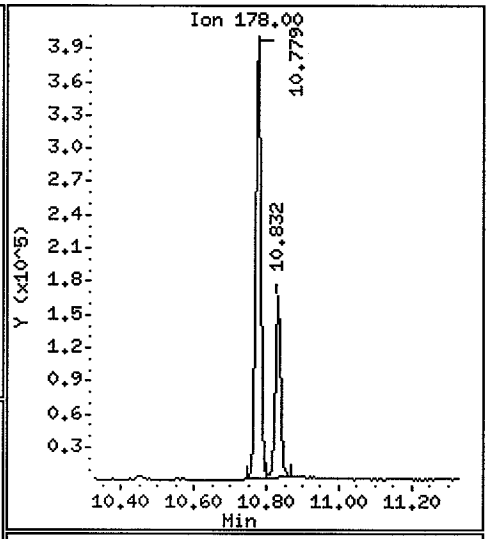
Concentration: 78.56 ug/kg

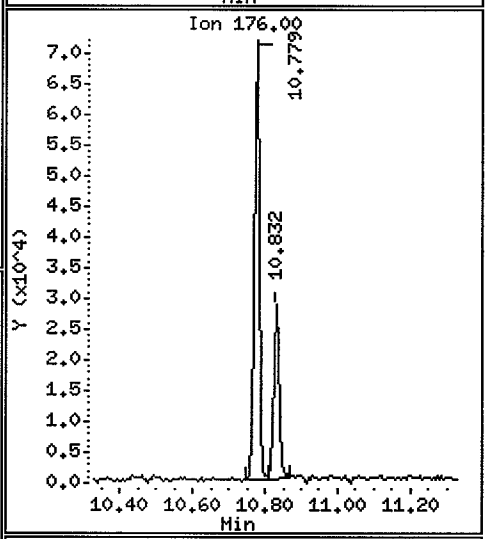


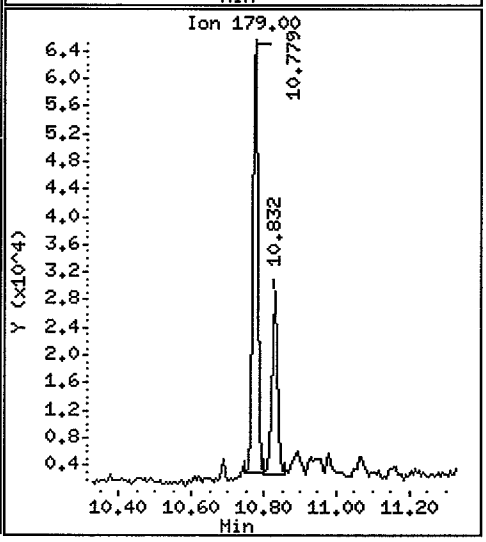












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

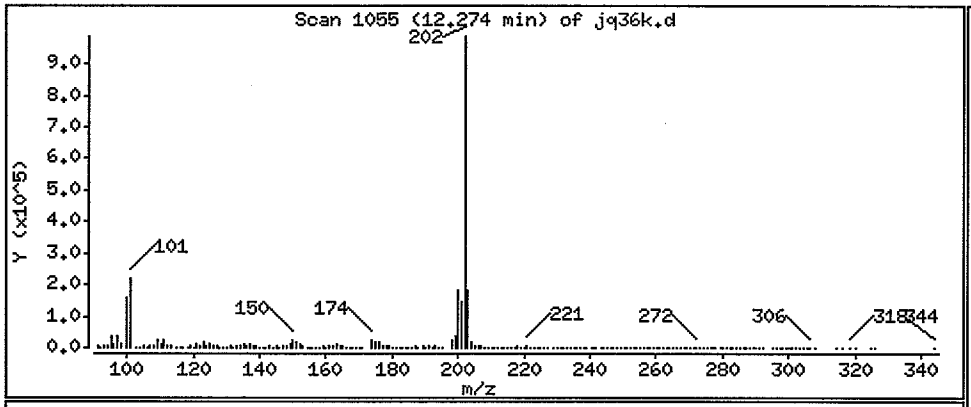
Operator: VTS

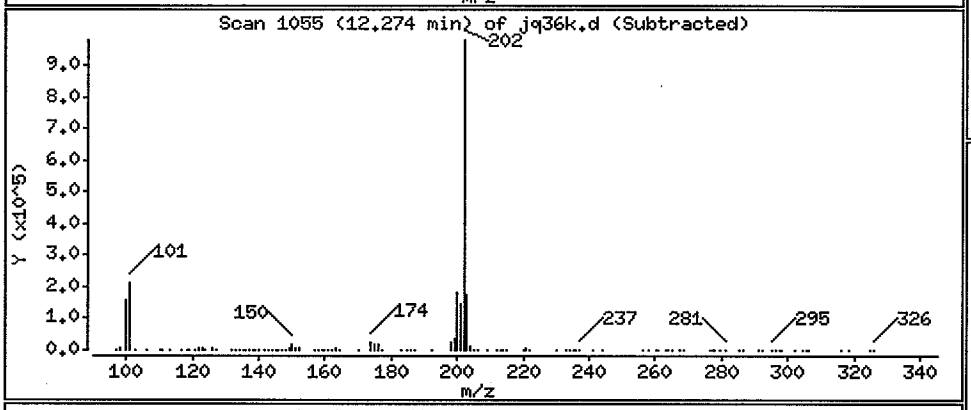
Column phase: ZB-5

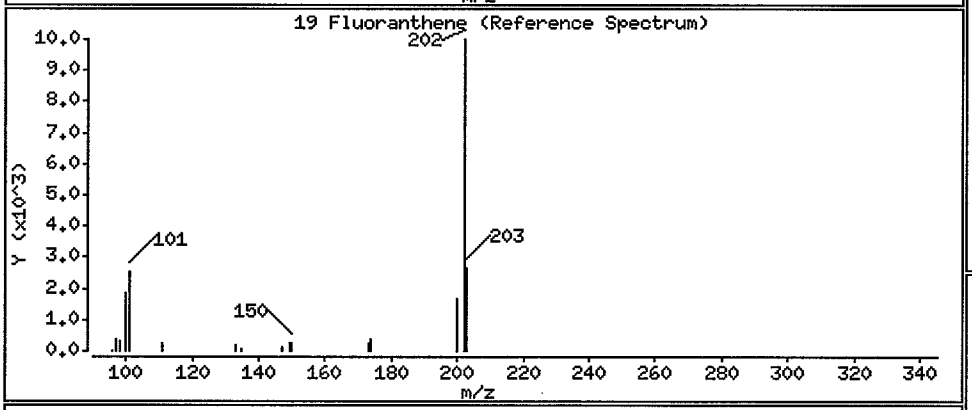
Column diameter: 0.25

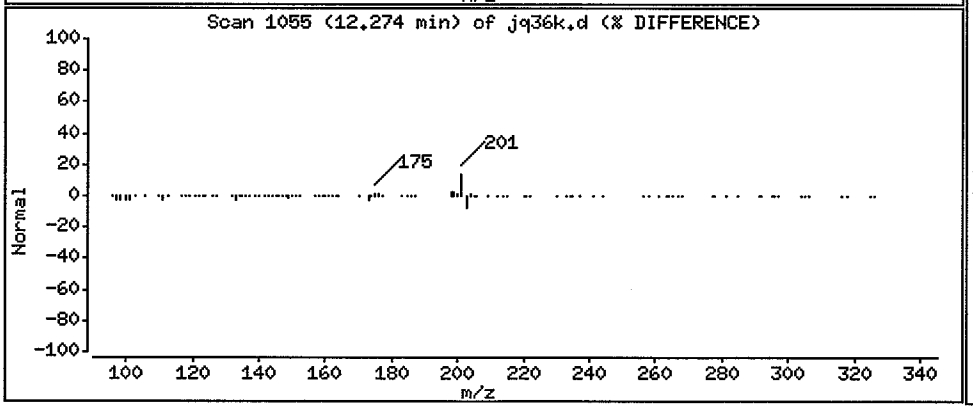
19 Fluoranthene

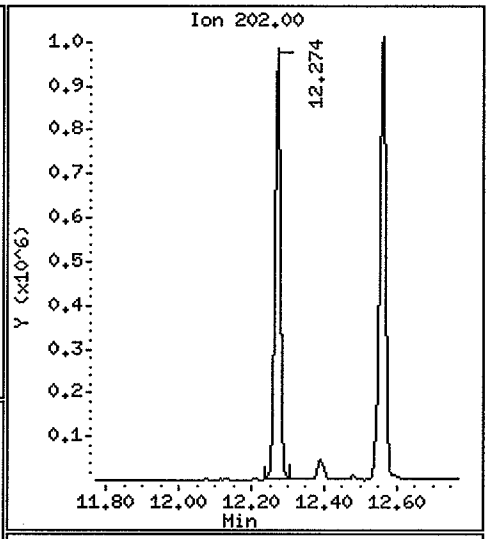
Concentration: 461.6 ug/kg

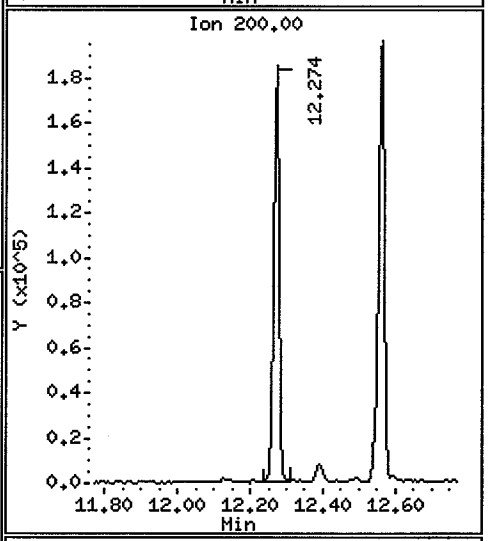


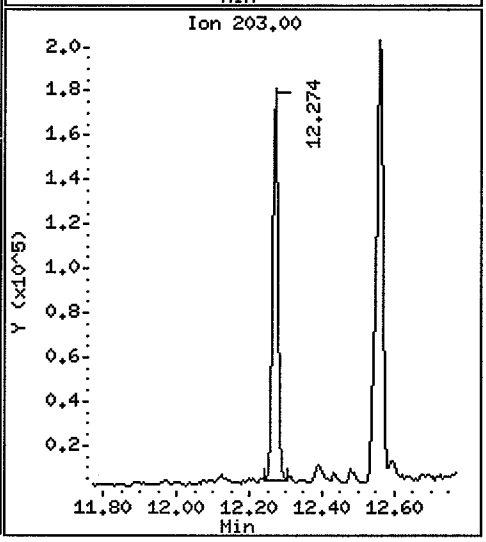












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

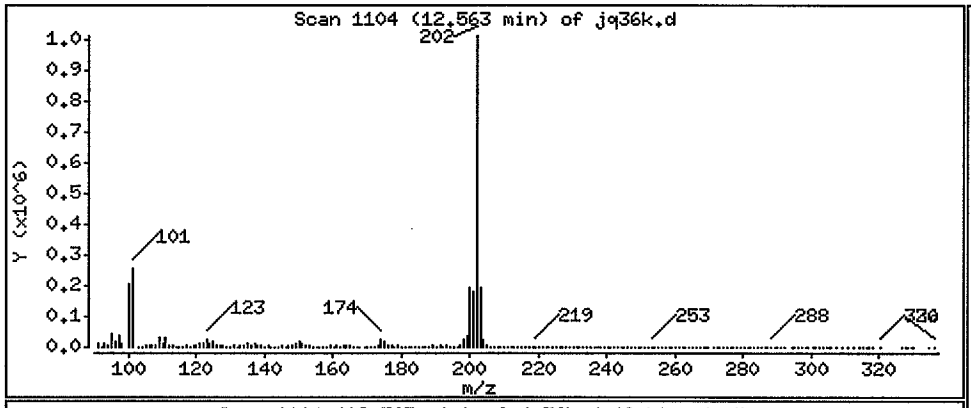
Operator: VTS

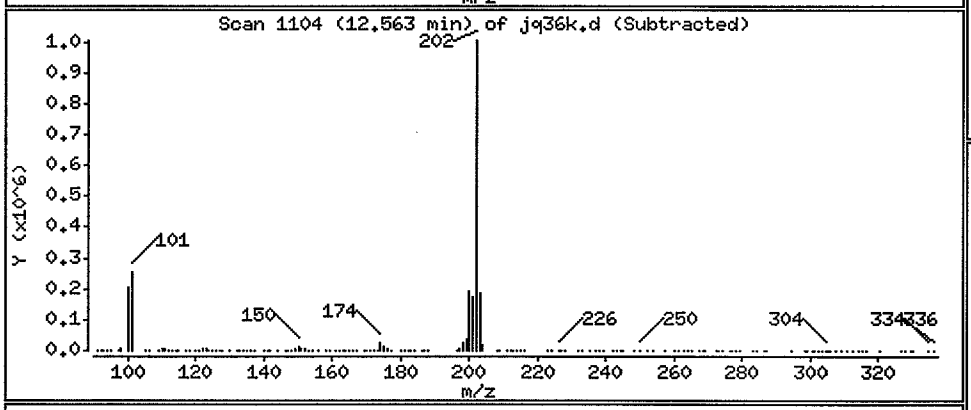
Column phase: ZB-5

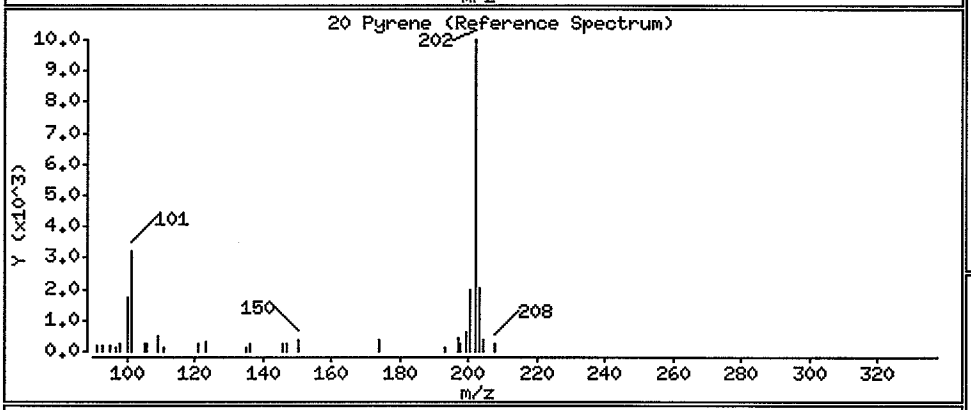
Column diameter: 0.25

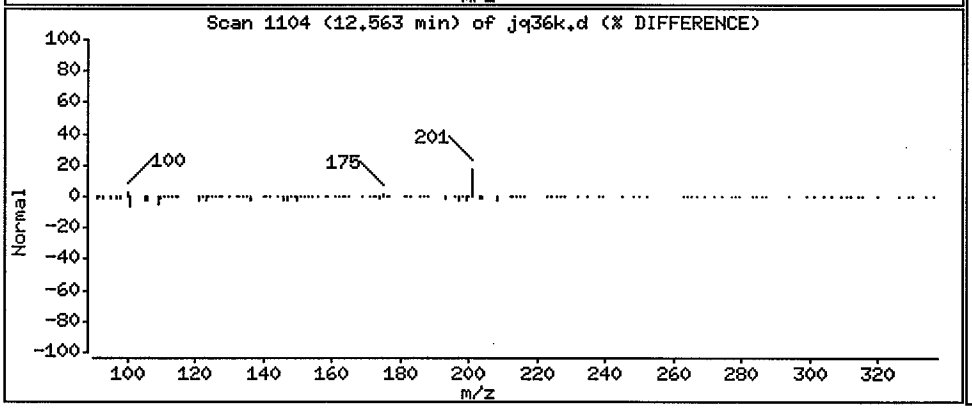
20 Pyrene

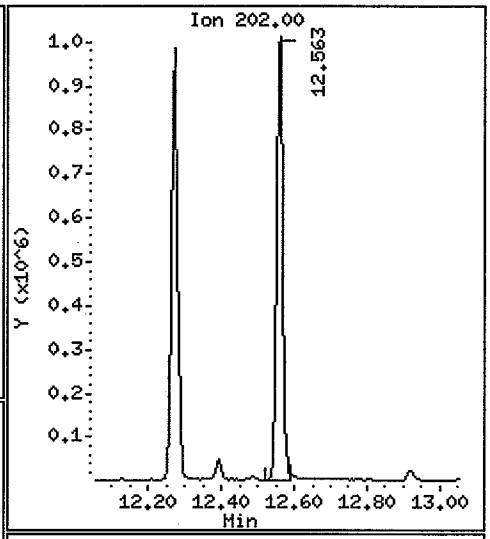
Concentration: 435.6 ug/kg

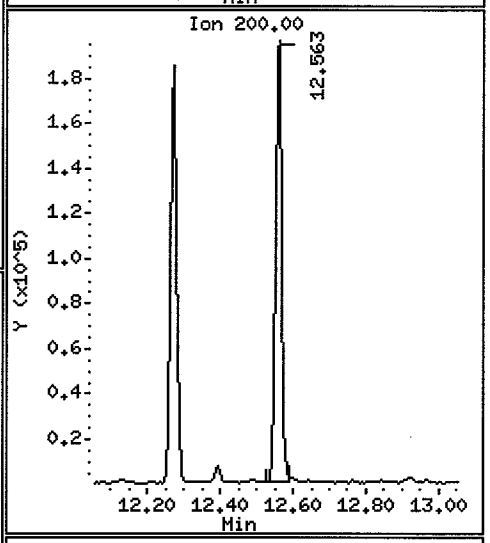


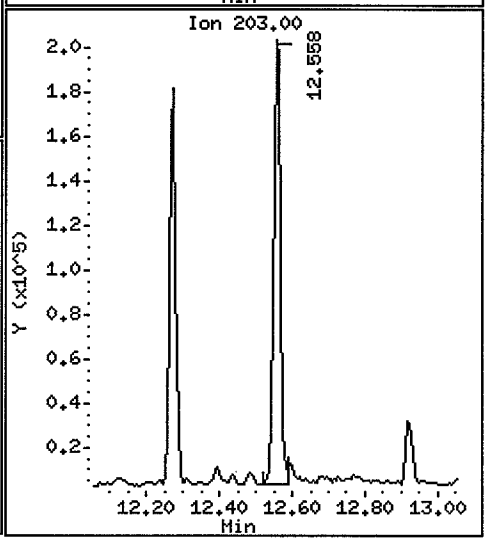












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

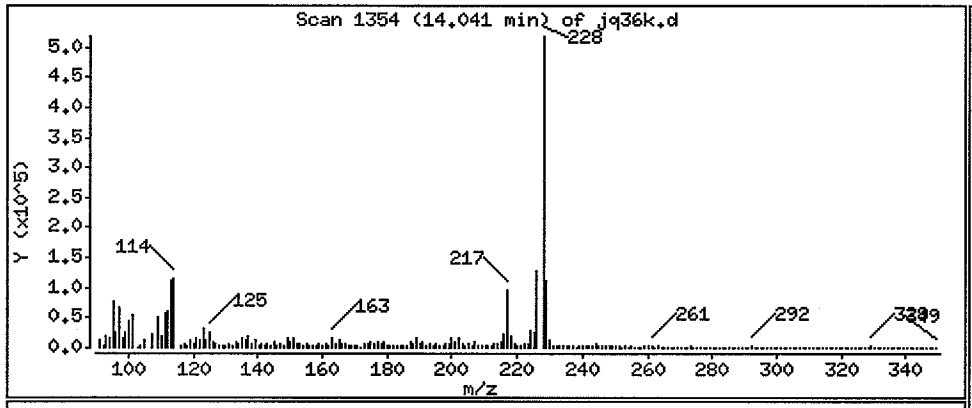
Client ID: T4-WB-03 Instrument: nt1.i

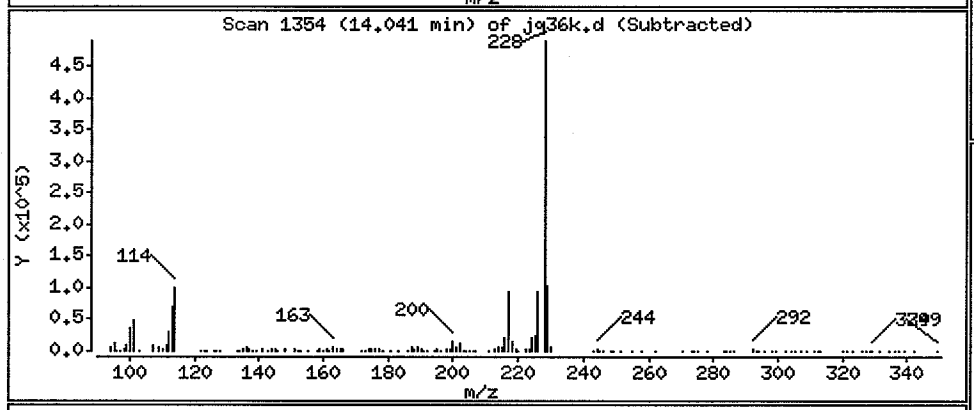
Sample Info: JQ36K

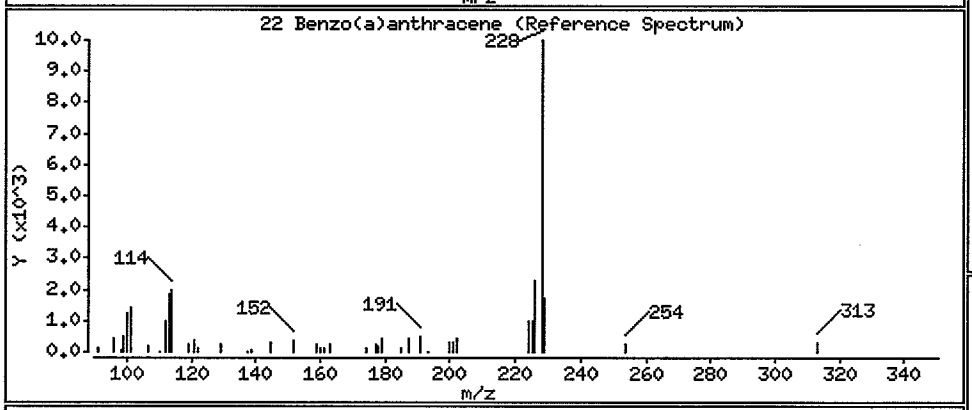
Volume Injected (uL): 1.0 Operator: VTS

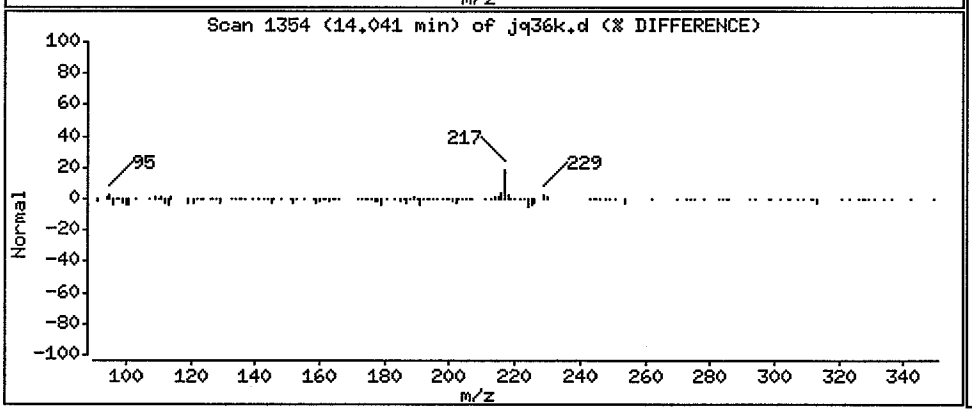
Column phase: ZB-5 Column diameter: 0.25

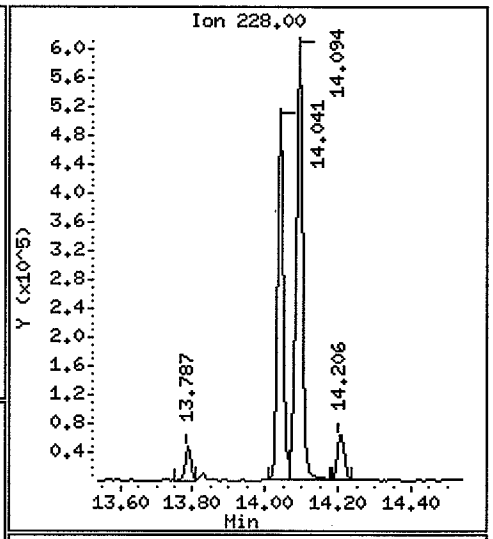
22 Benzo(a)anthracene Concentration: 226.0 ug/kg

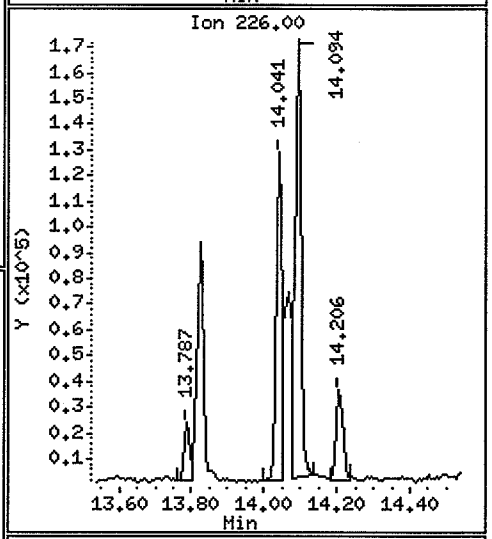


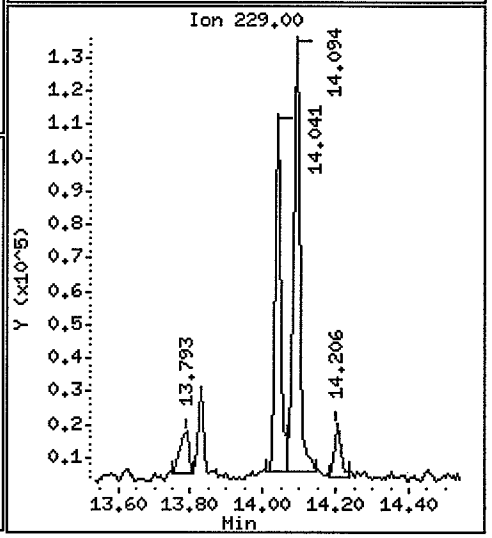












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

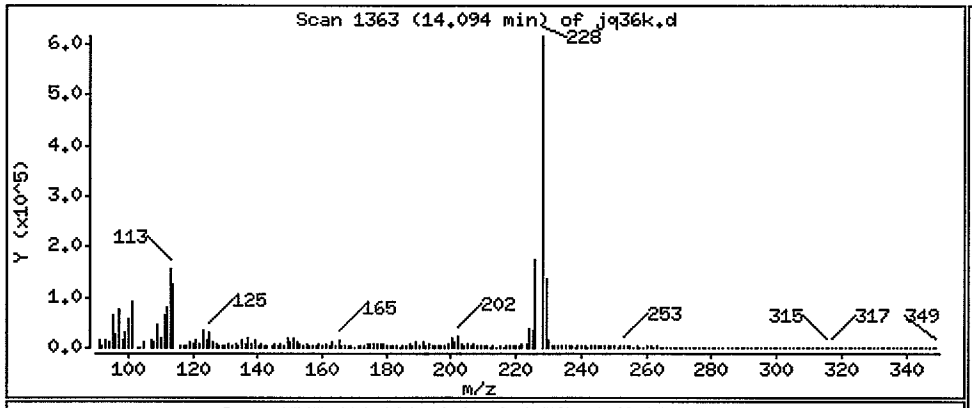
Operator: VTS

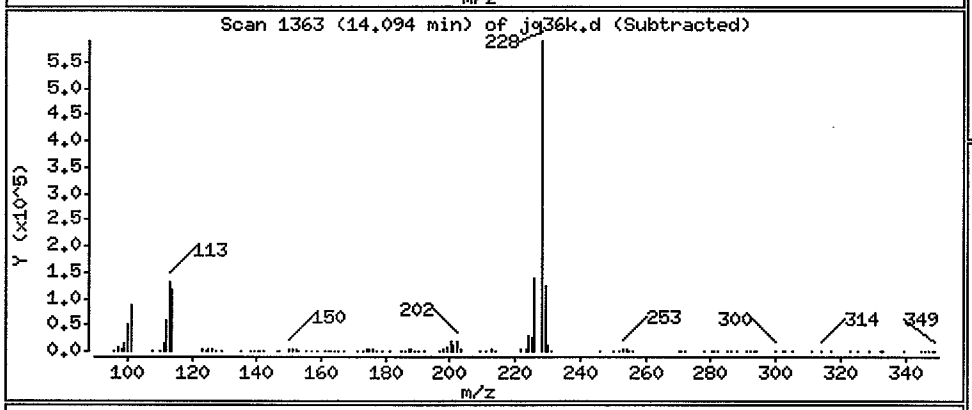
Column phase: ZB-5

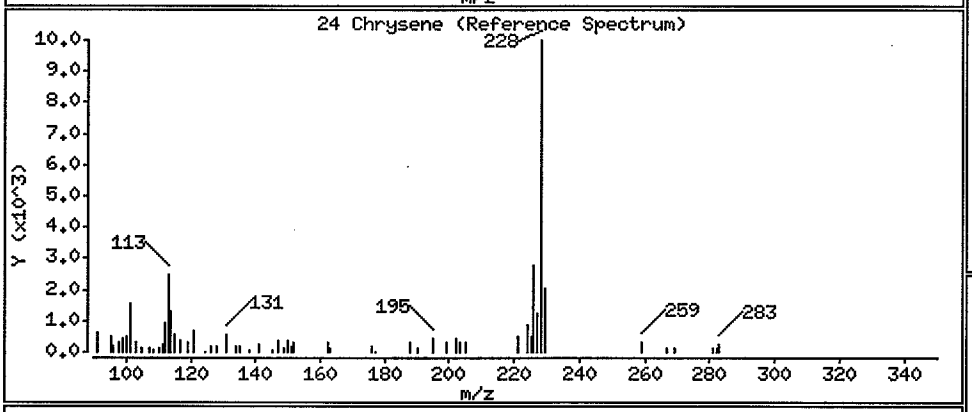
Column diameter: 0.25

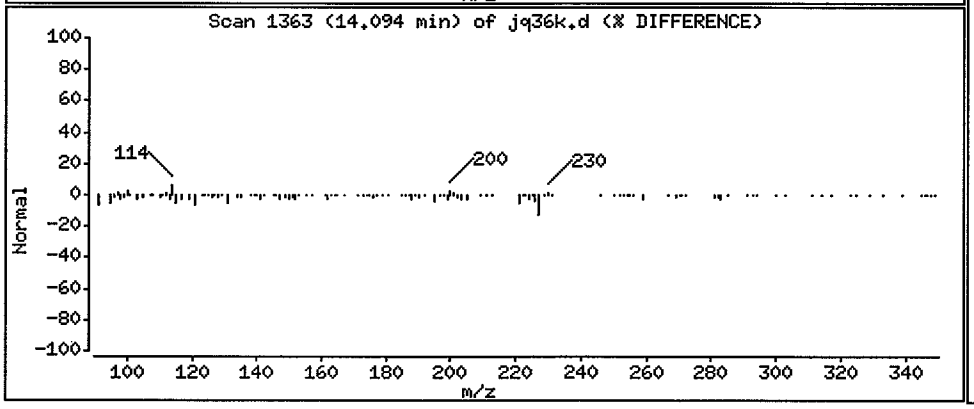
24 Chrysene

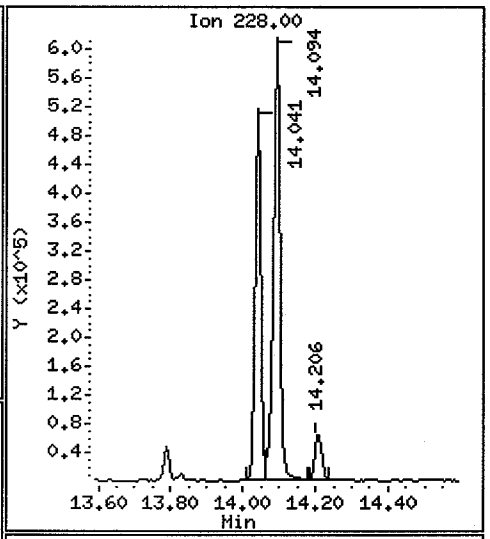
Concentration: 329.2 ug/kg

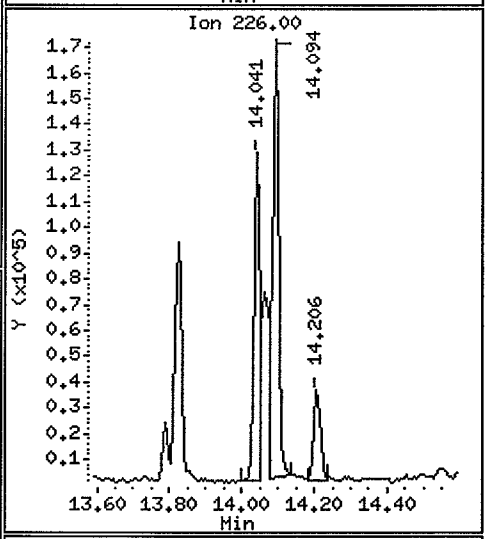


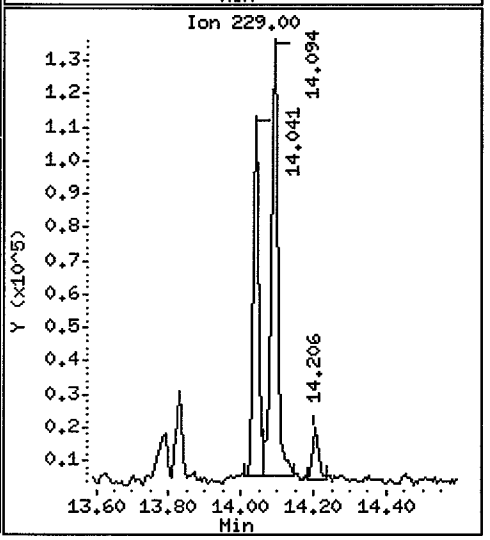












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

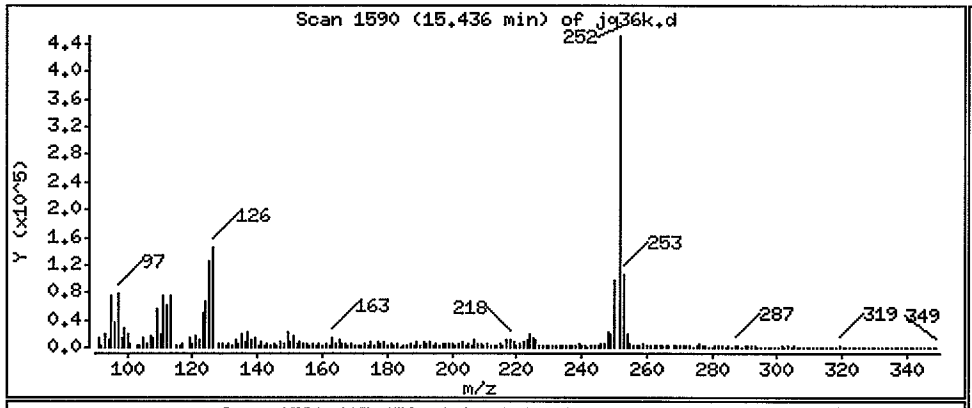
Operator: VTS

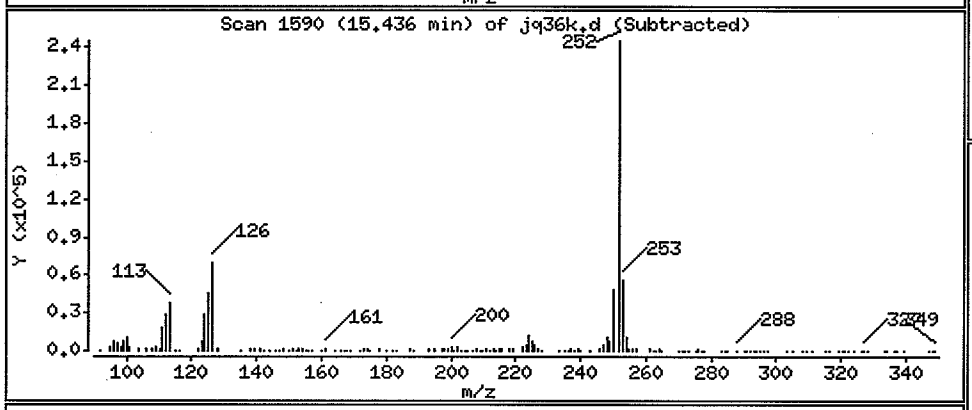
Column phase: ZB-5

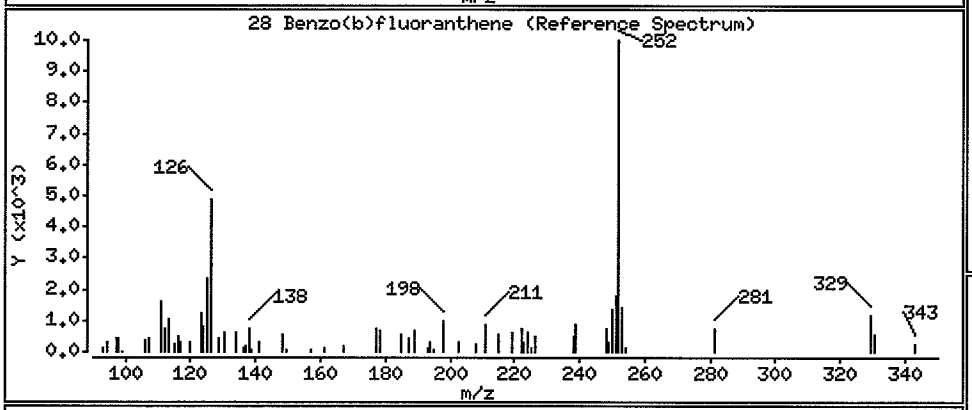
Column diameter: 0.25

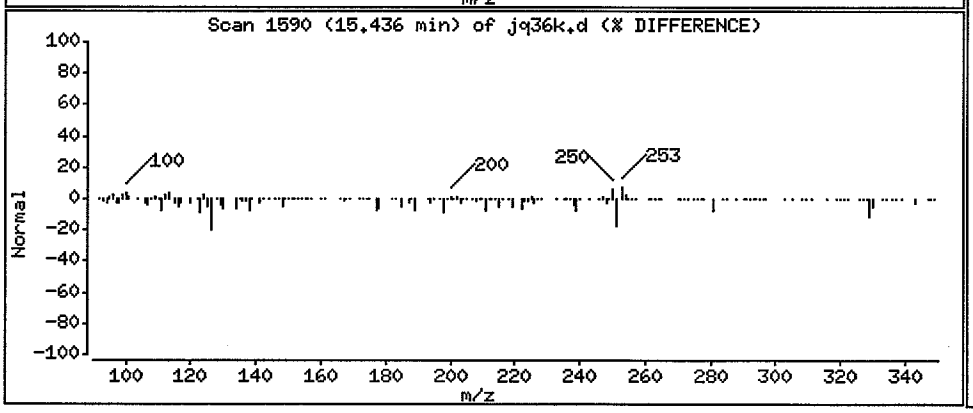
28 Benzo(b)fluoranthene

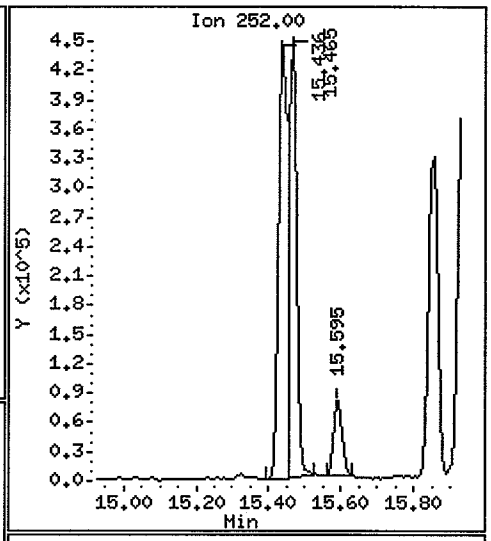
Concentration: 304.1 ug/kg

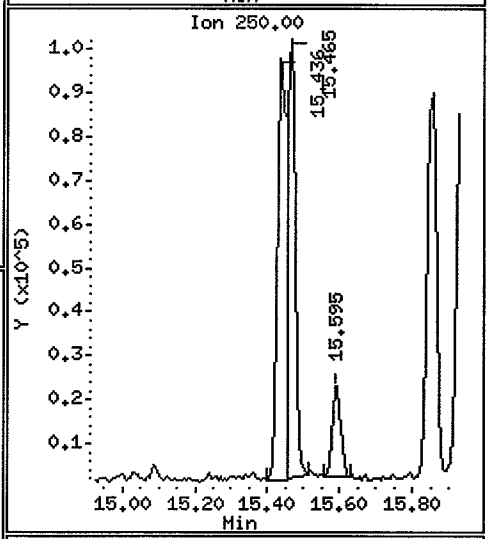


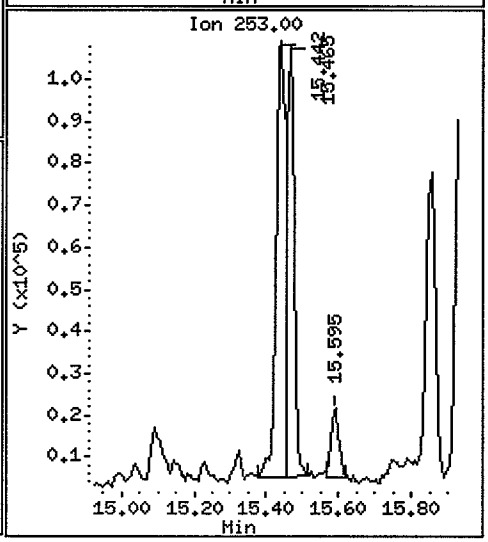












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

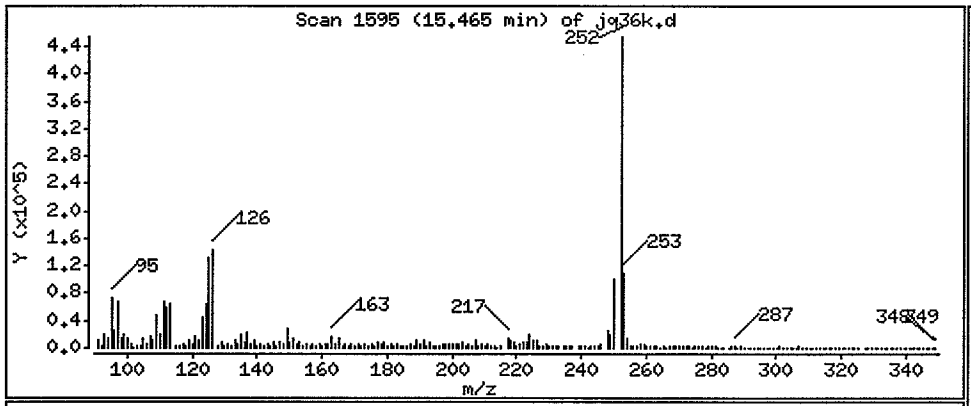
Client ID: T4-WB-03 Instrument: nt1.i

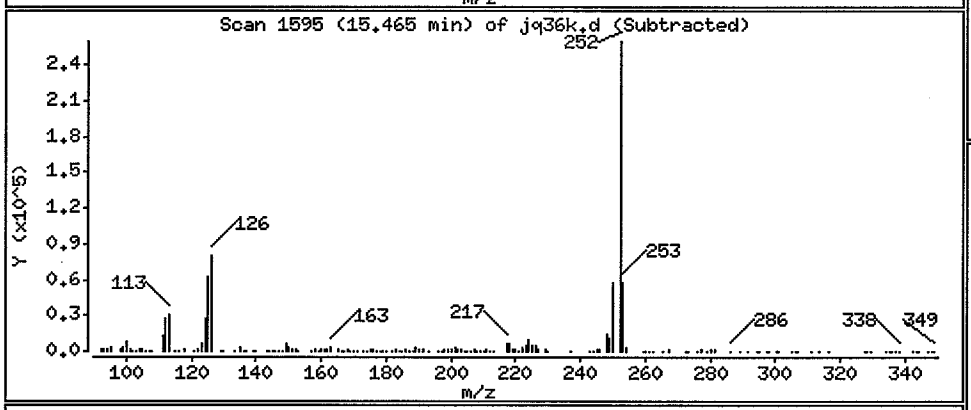
Sample Info: JQ36K

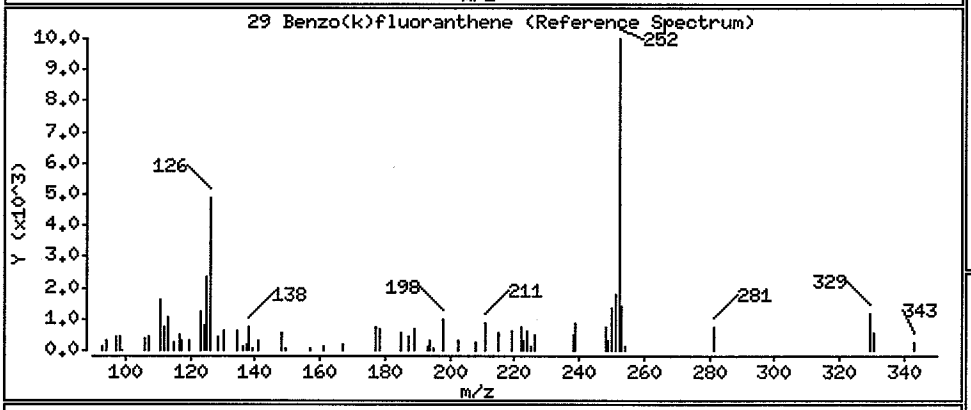
Volume Injected (uL): 1.0 Operator: VTS

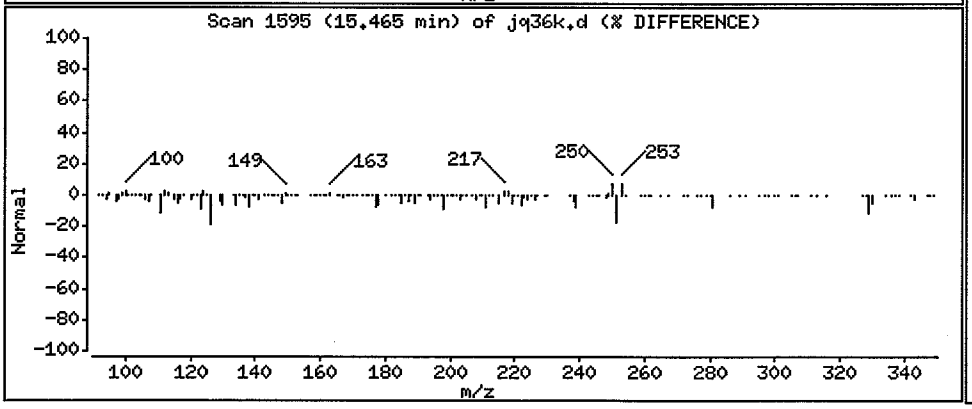
Column phase: ZB-5 Column diameter: 0.25

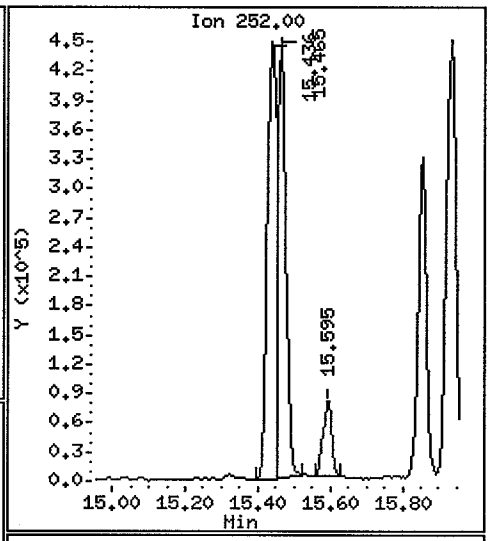
29 Benzo(k)fluoranthene Concentration: 255.4 ug/kg

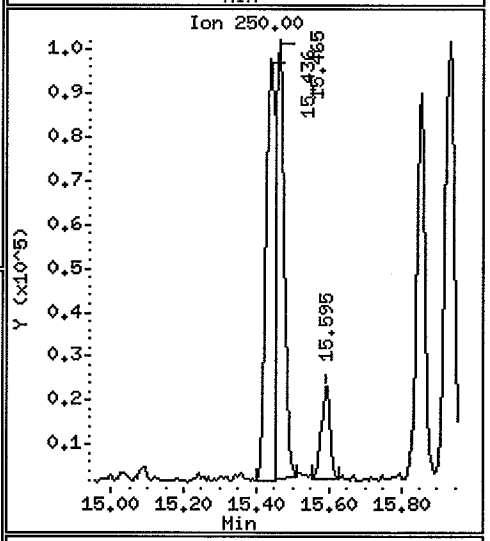


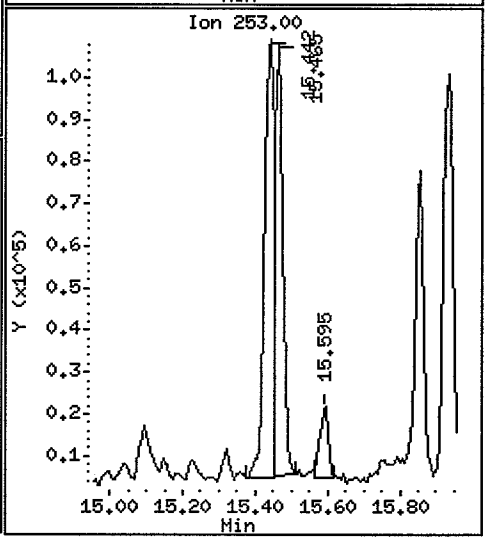












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

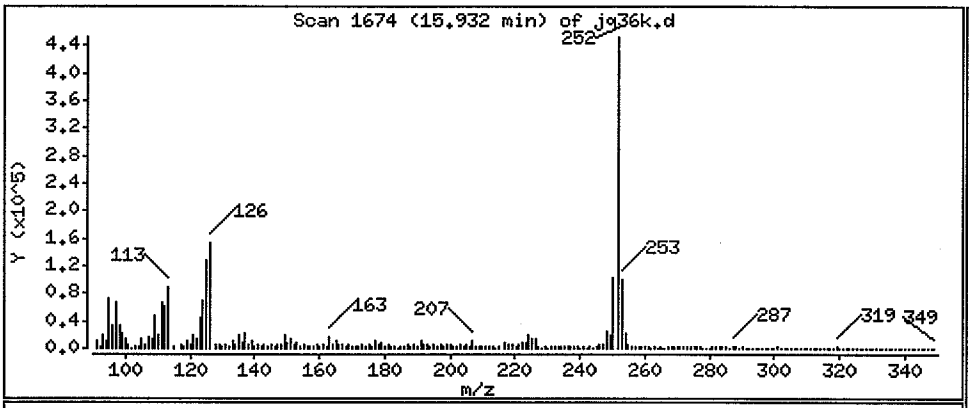
Client ID: T4-WB-03 Instrument: nt1.i

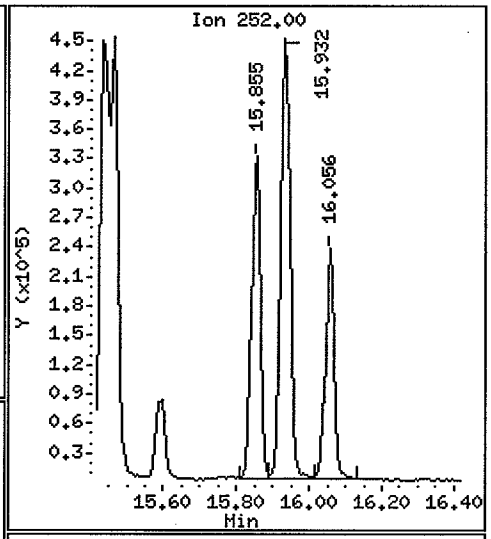
Sample Info: JQ36K

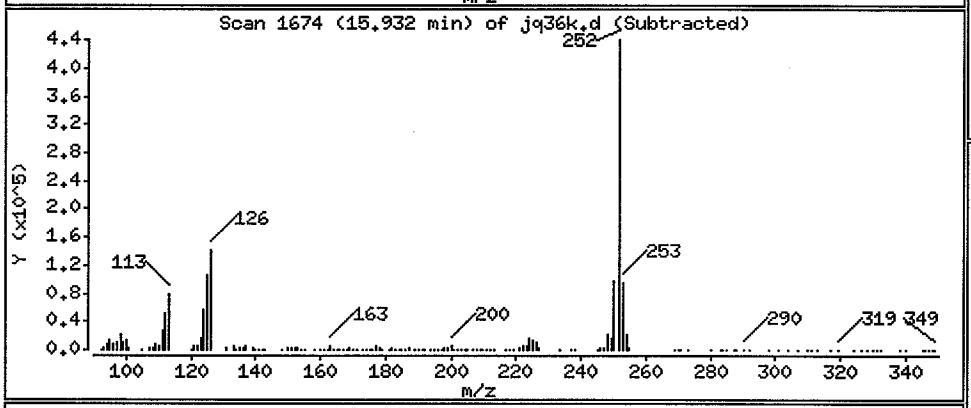
Volume Injected (uL): 1.0 Operator: VTS

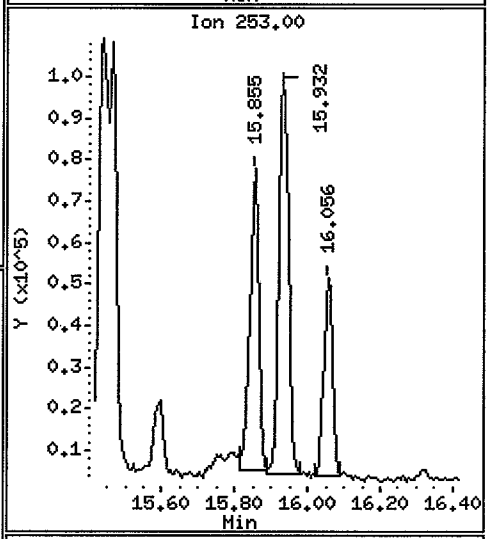
Column phase: ZB-5 Column diameter: 0.25

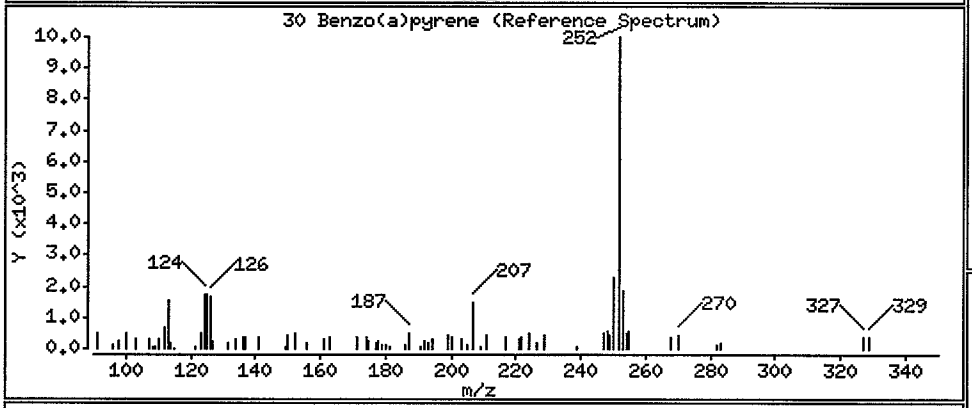
30 Benzo(a)pyrene Concentration: 307.4 ug/kg

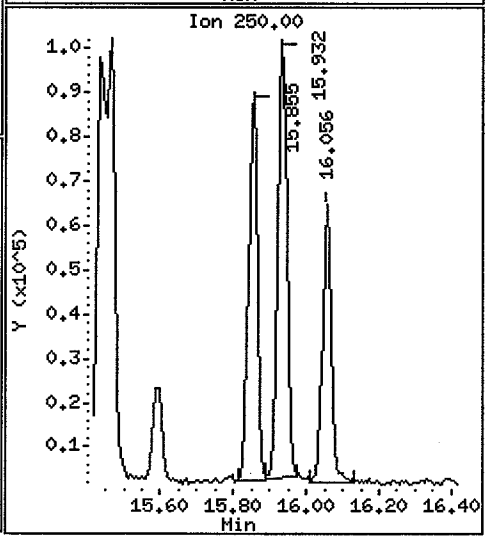


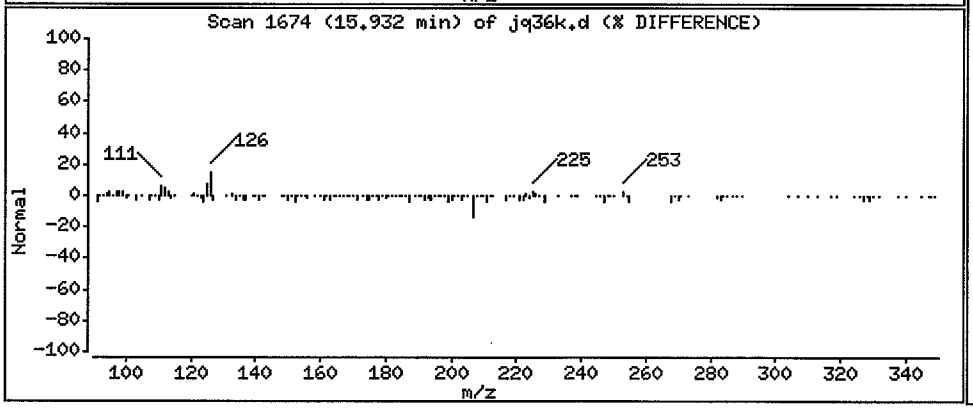












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

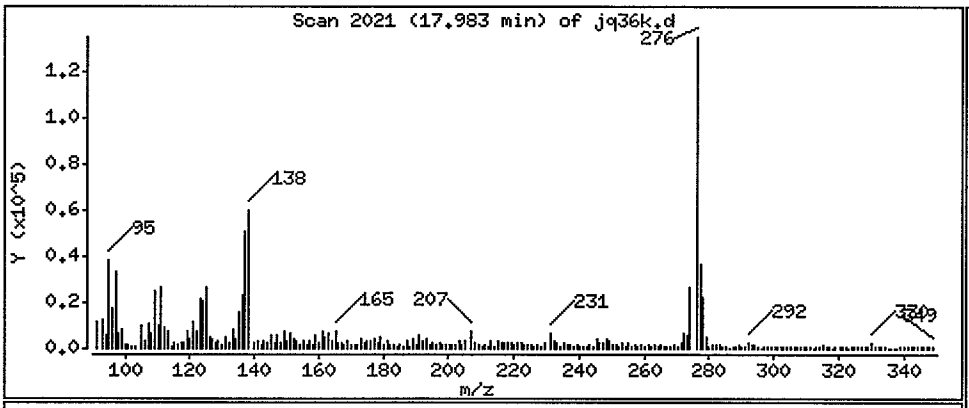
Operator: VTS

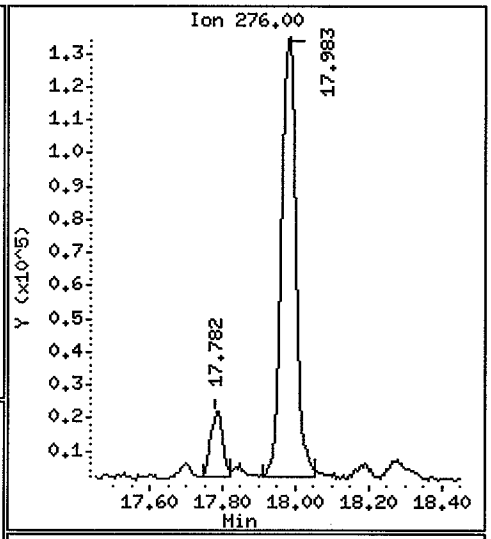
Column phase: ZB-5

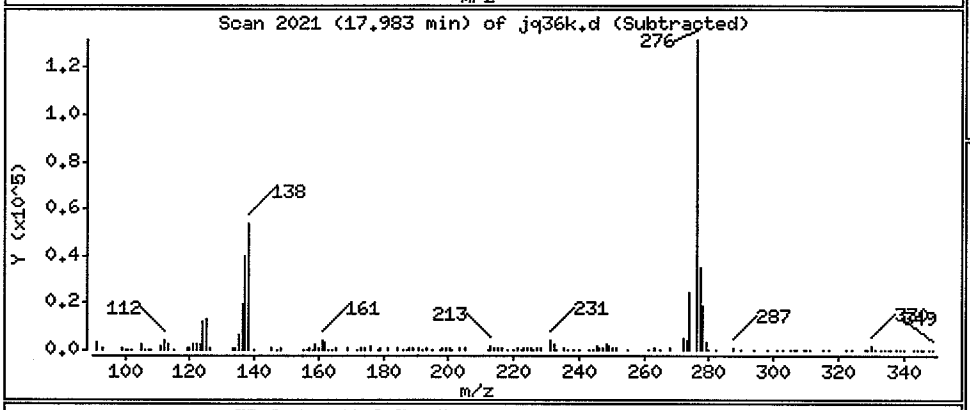
Column diameter: 0.25

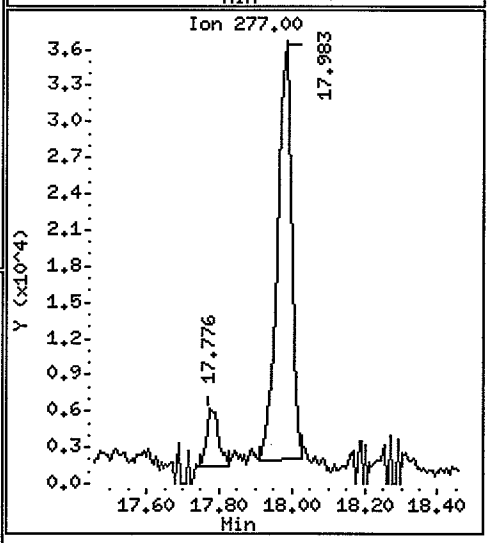
33 Indeno(1,2,3-cd)pyrene

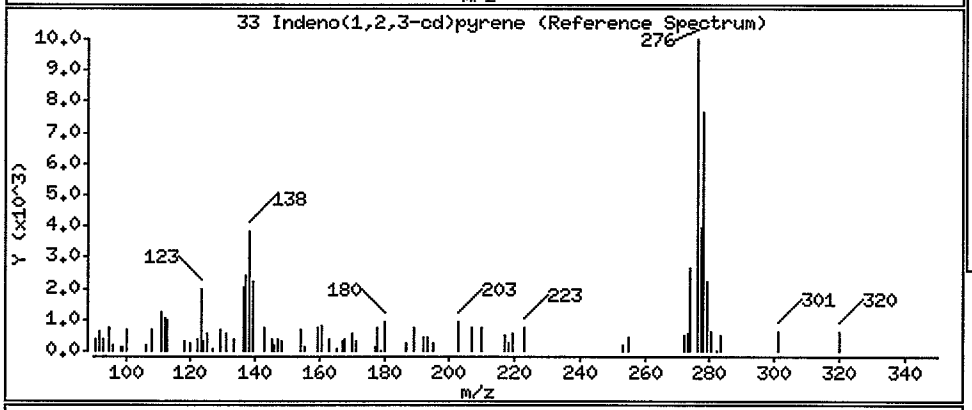
Concentration: 124.7 ug/kg

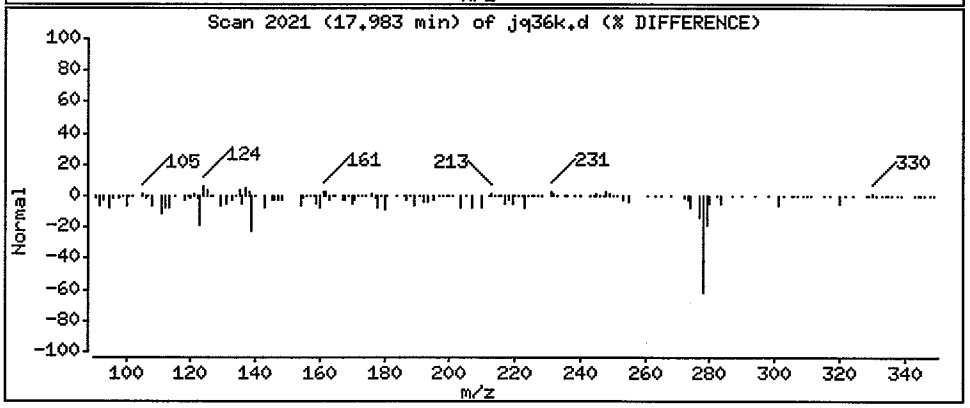












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

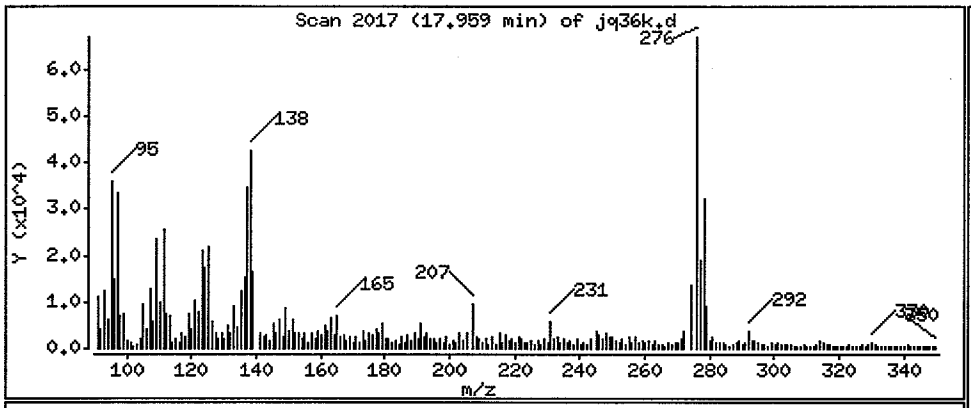
Client ID: T4-WB-03 Instrument: nt1.i

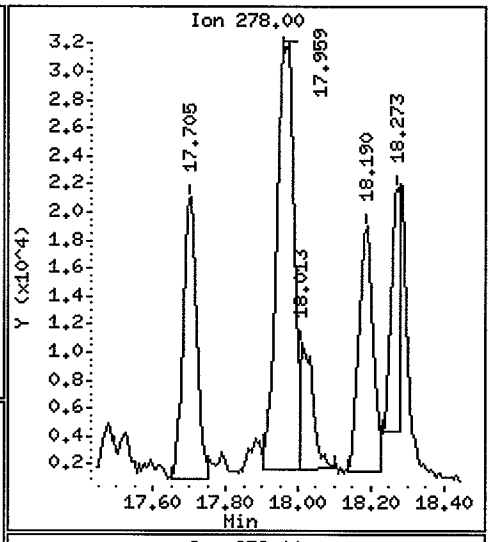
Sample Info: JQ36K

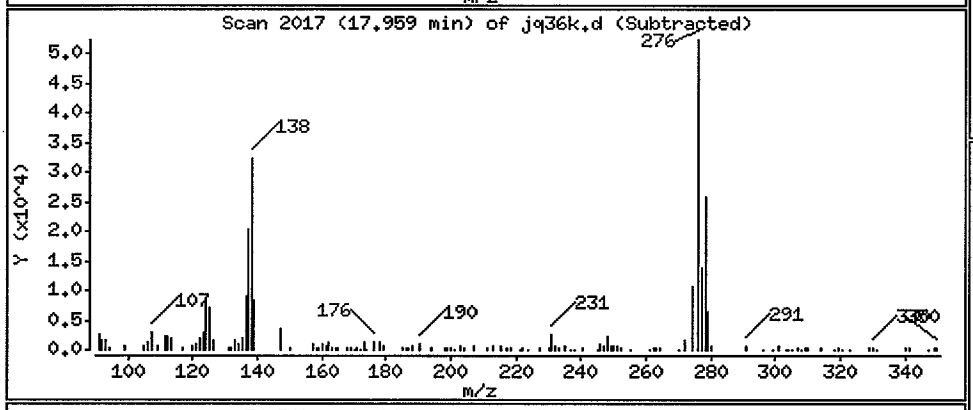
Volume Injected (uL): 1.0 Operator: VTS

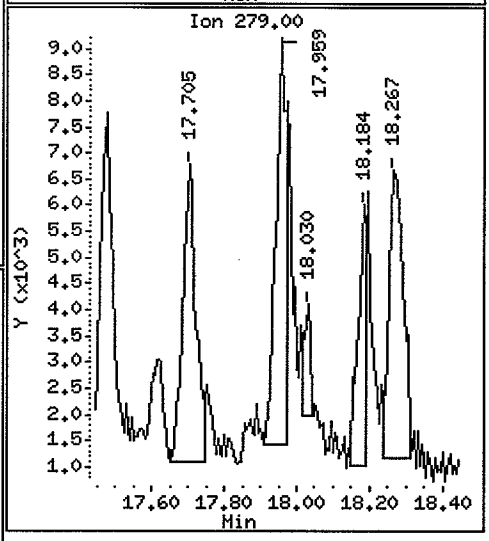
Column phase: ZB-5 Column diameter: 0.25

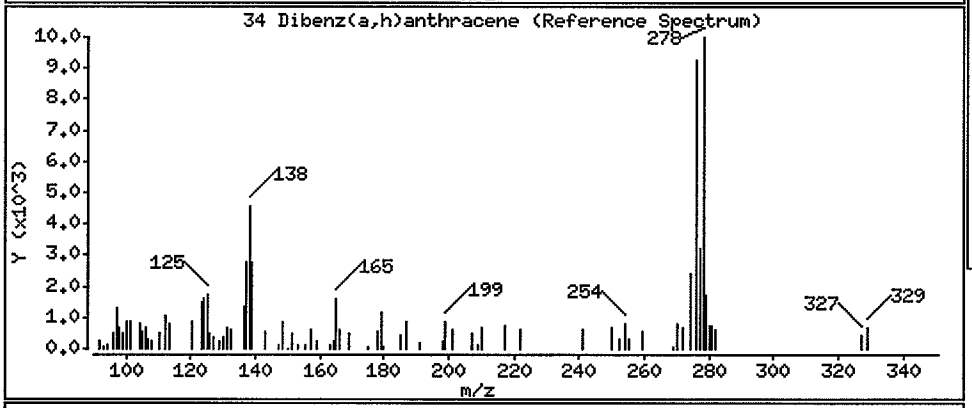
34 Dibenz(a,h)anthracene Concentration: 42.14 ug/kg

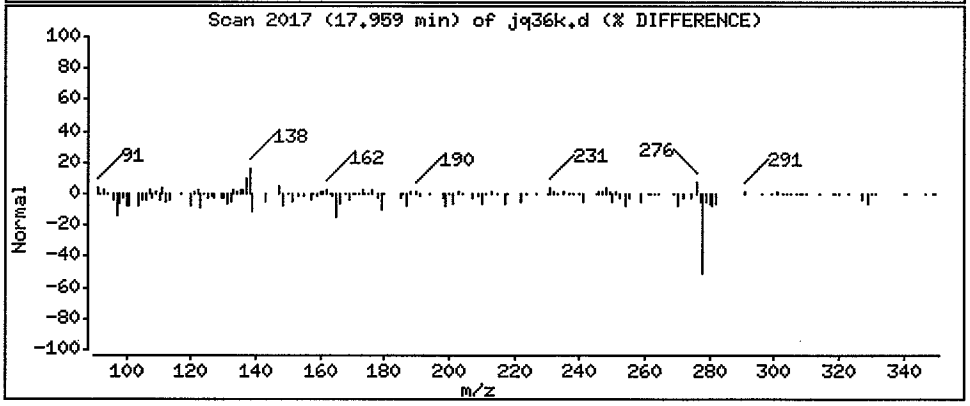












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

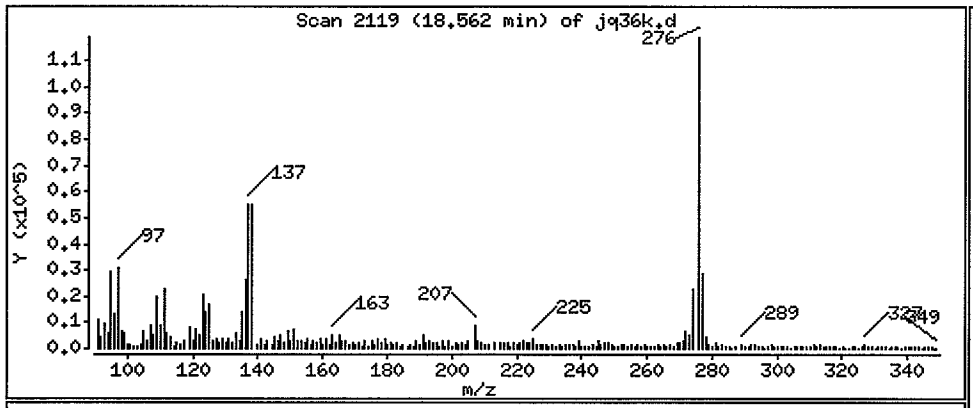
Client ID: T4-WB-03 Instrument: nt1.i

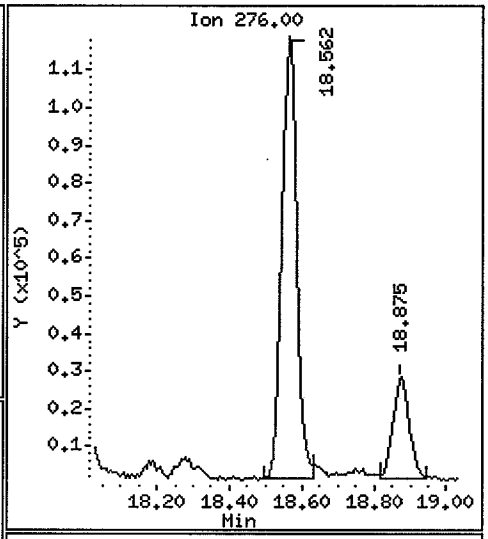
Sample Info: JQ36K

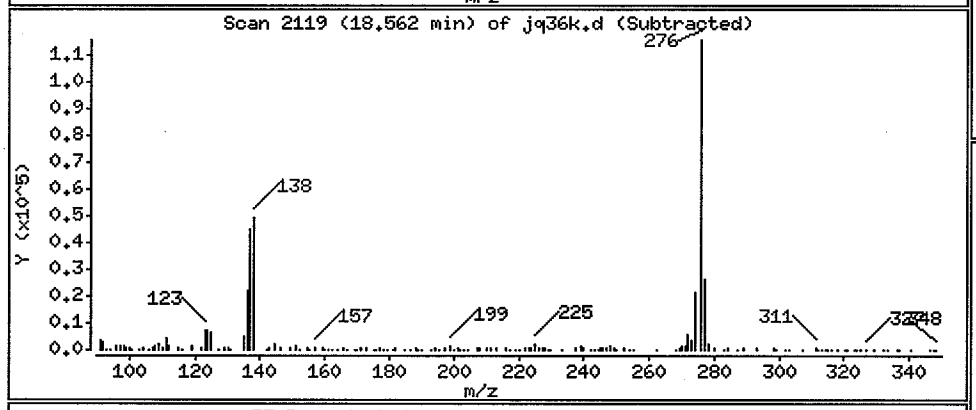
Volume Injected (uL): 1.0 Operator: VTS

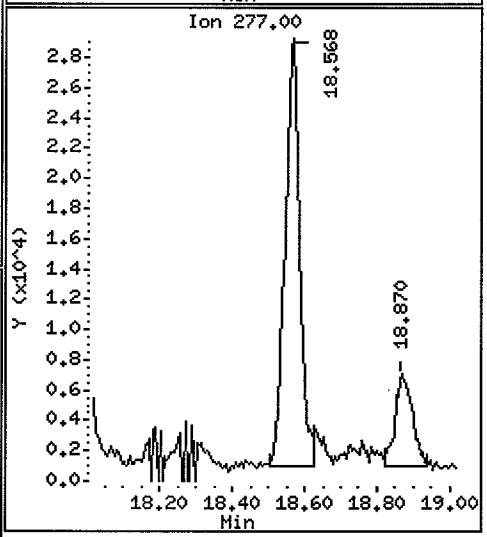
Column phase: ZB-5 Column diameter: 0.25

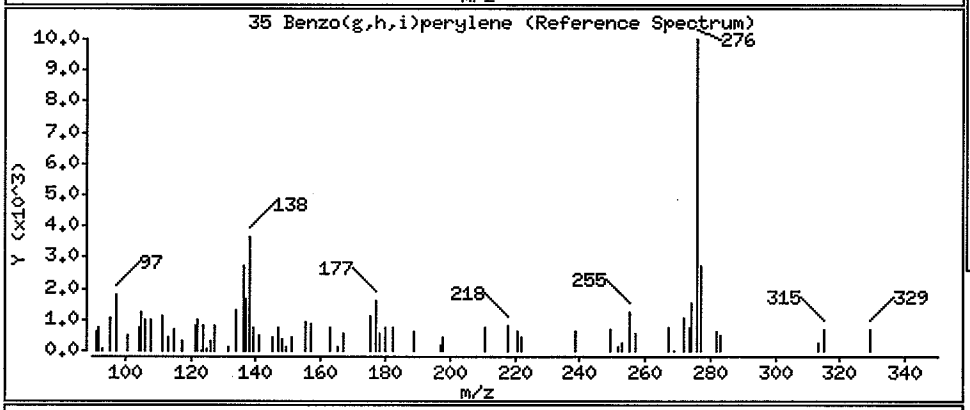
35 Benzo(g,h,i)perylene Concentration: 138.0 ug/kg

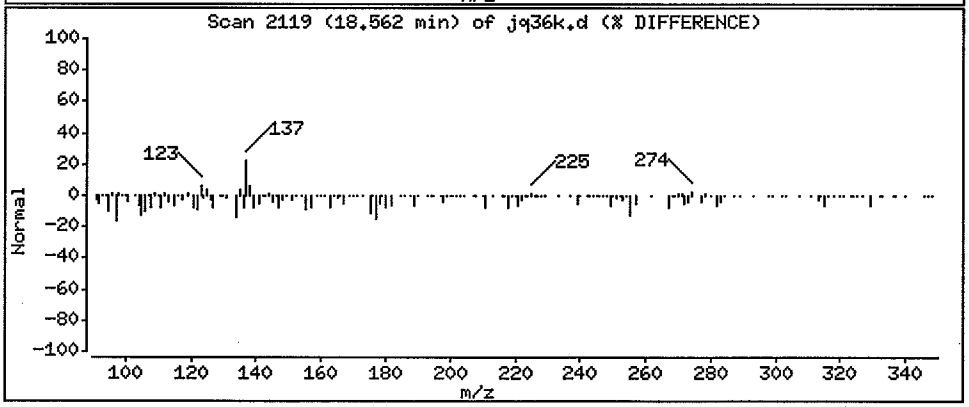












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

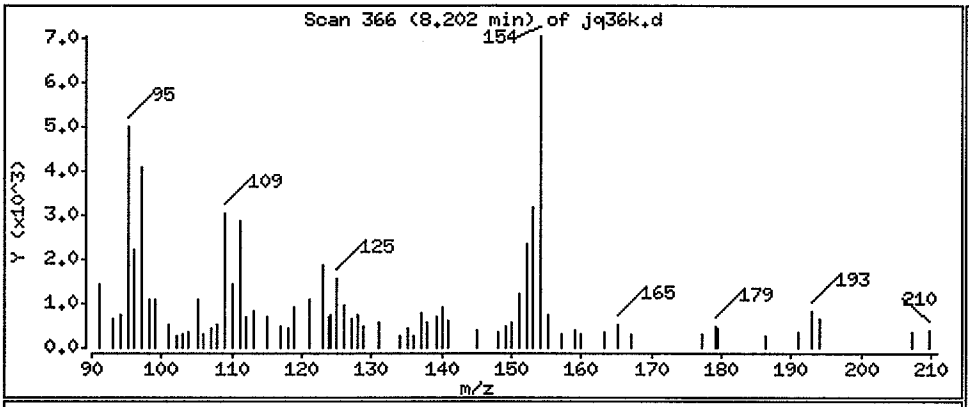
Operator: VTS

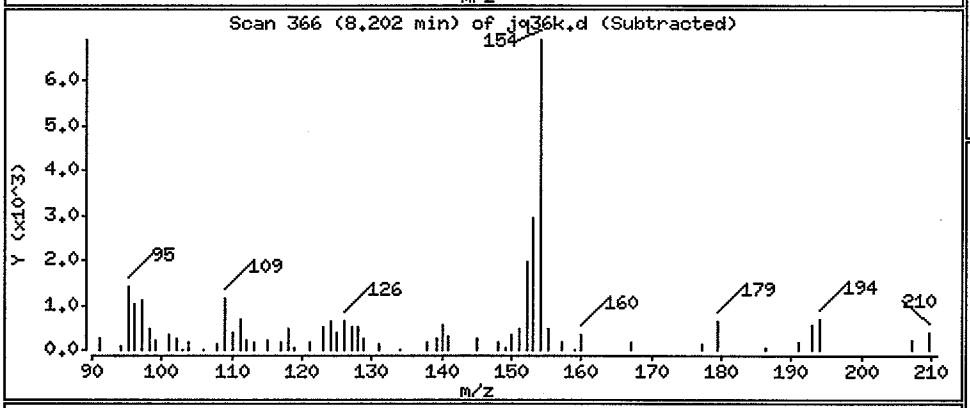
Column phase: ZB-5

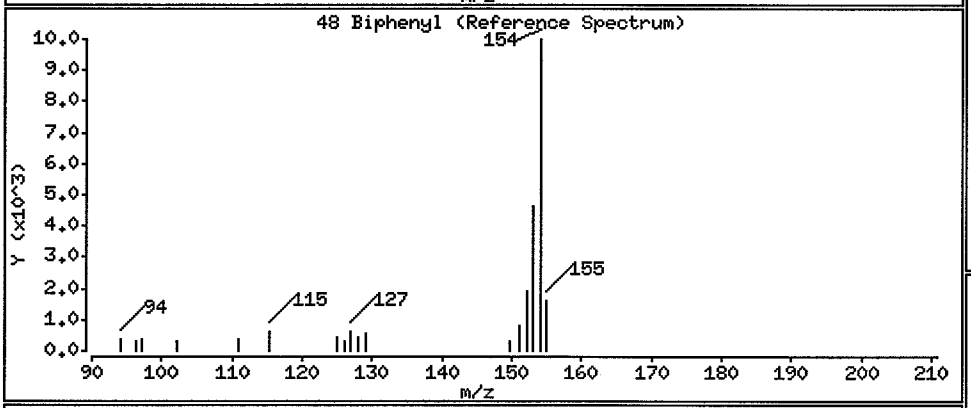
Column diameter: 0.25

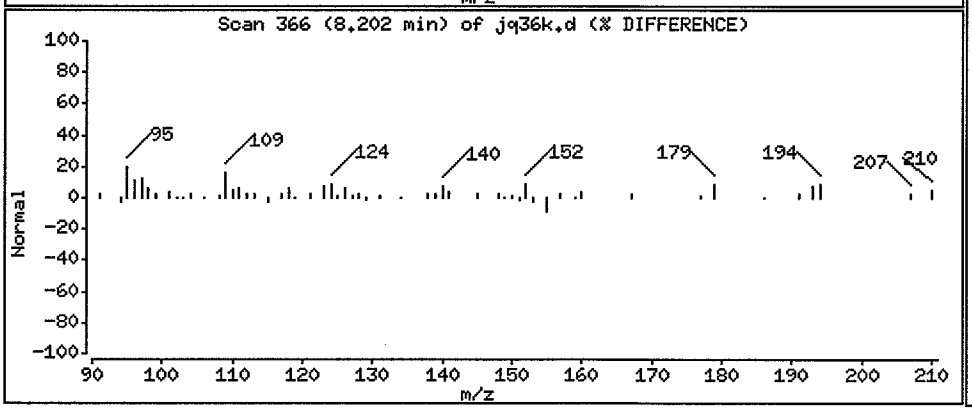
48 Biphenyl

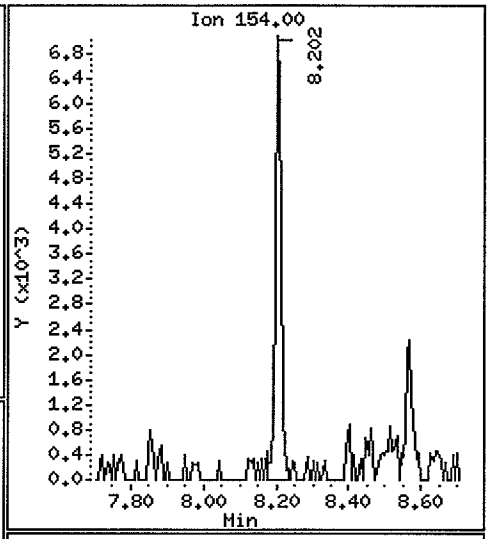
Concentration: 4.517 ug/kg

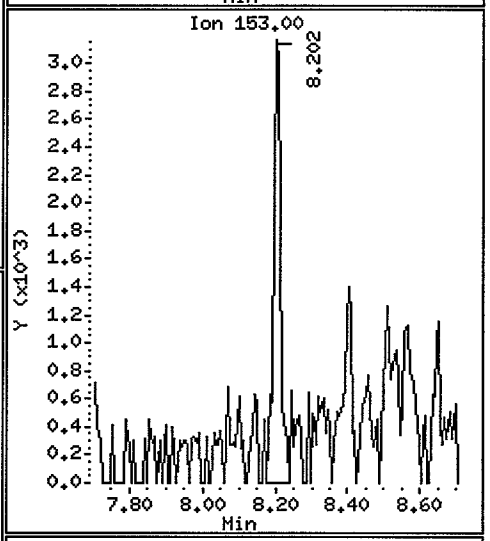


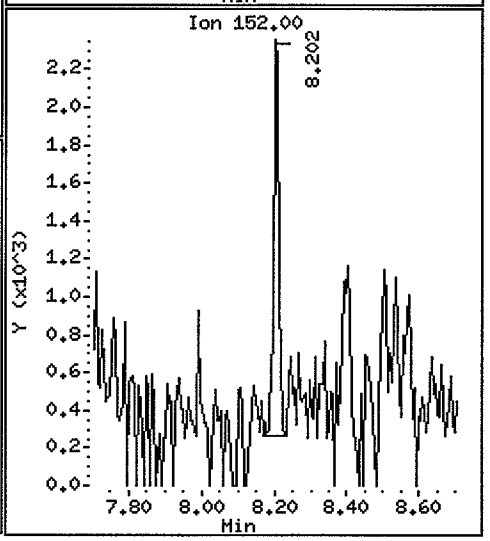












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

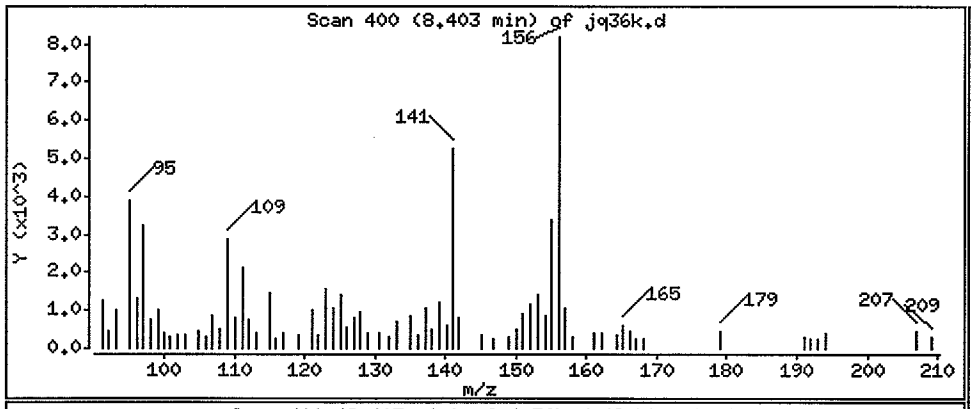
Operator: VTS

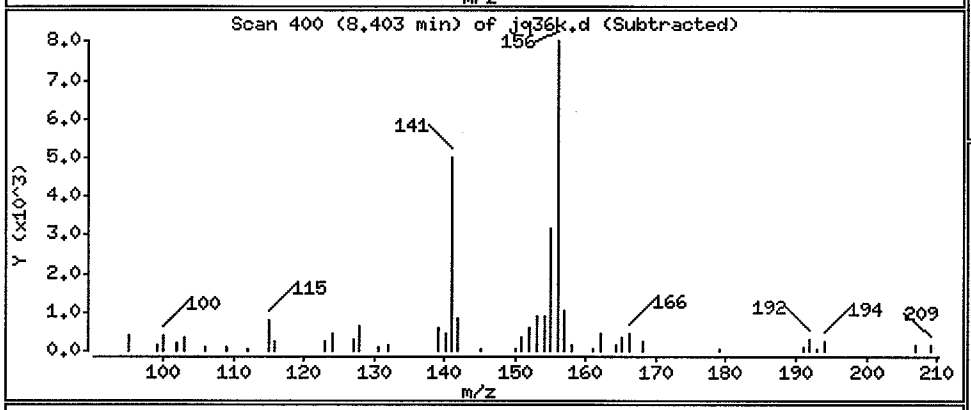
Column phase: ZB-5

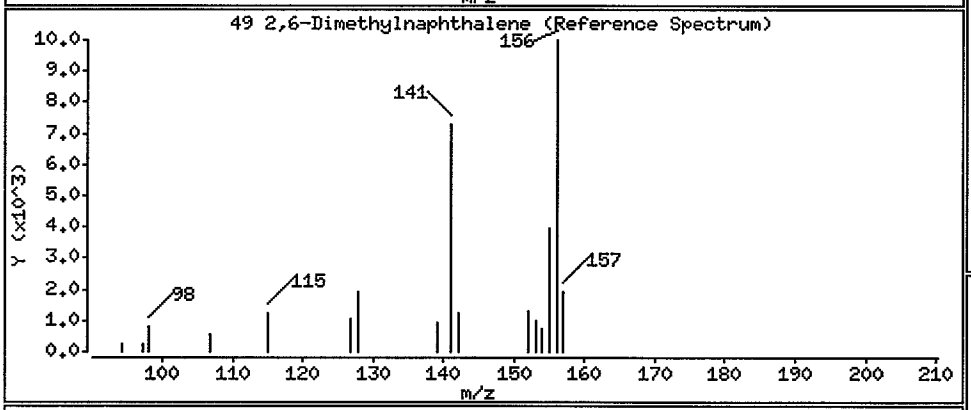
Column diameter: 0.25

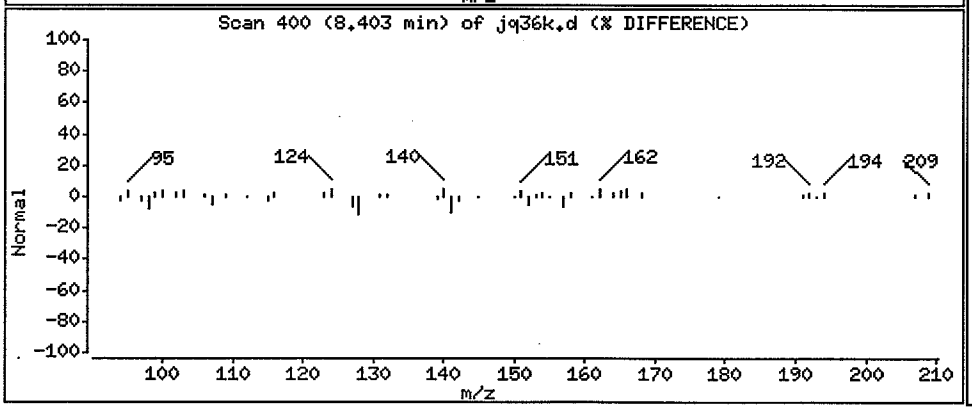
49 2,6-Dimethylnaphthalene

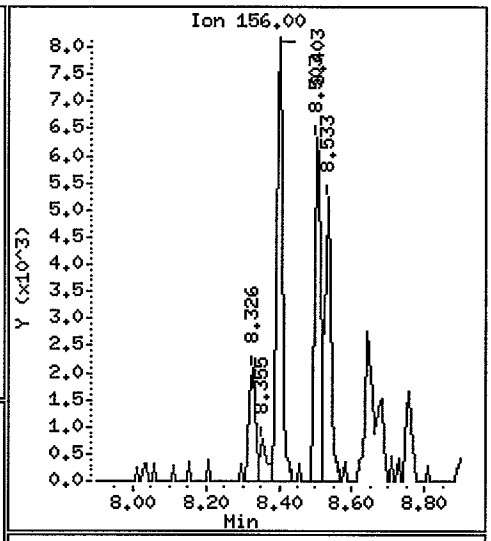
Concentration: 6.768 ug/kg

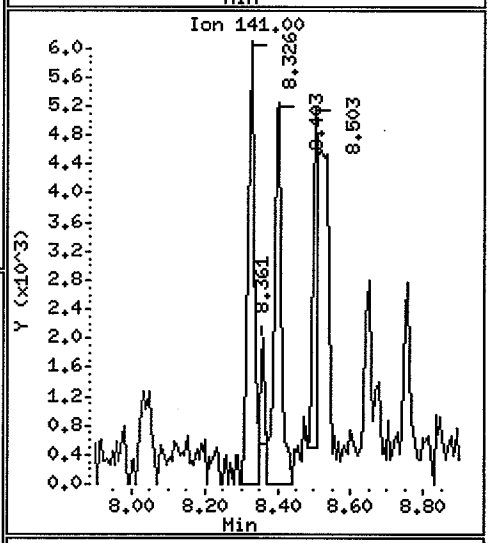


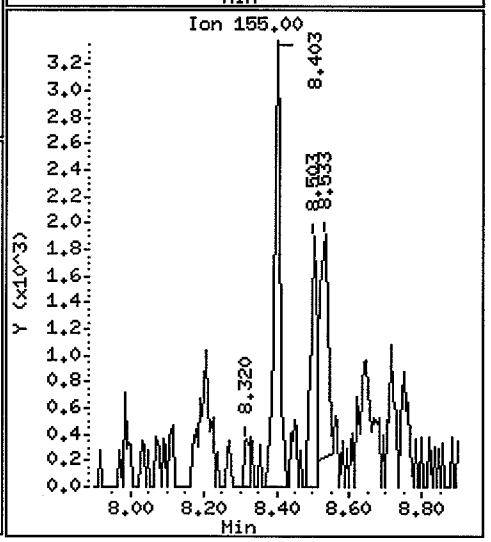












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

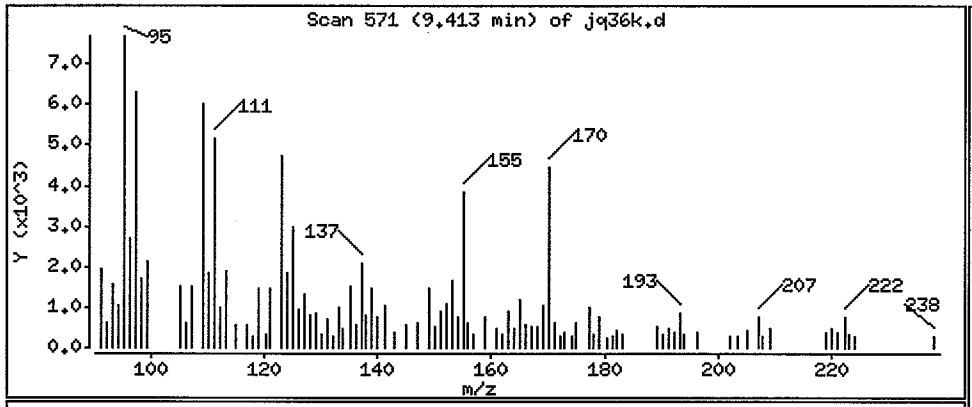
Operator: VTS

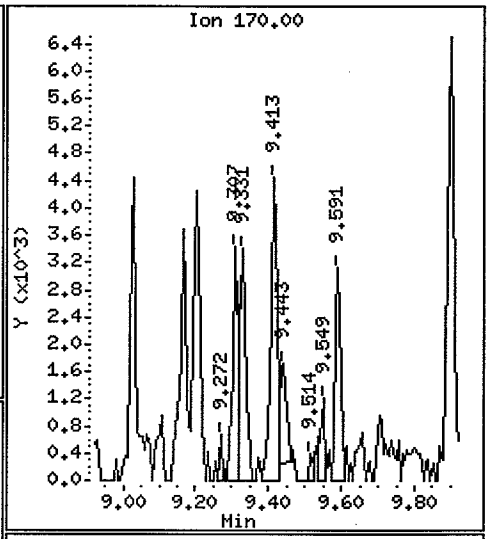
Column phase: ZB-5

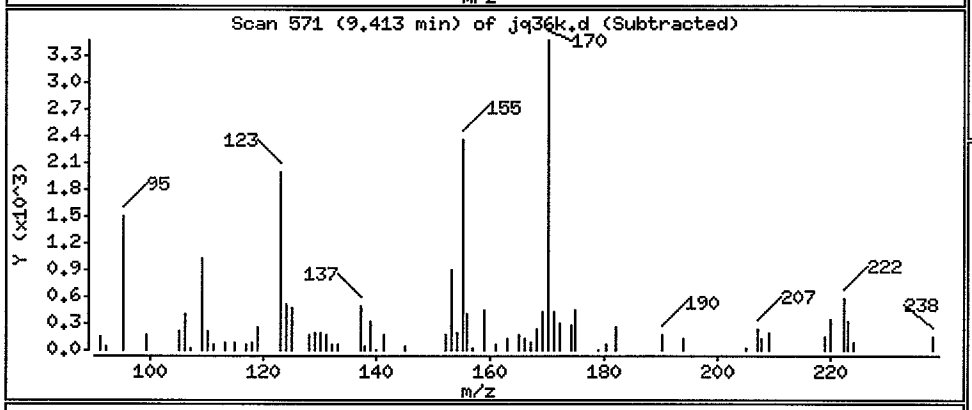
Column diameter: 0.25

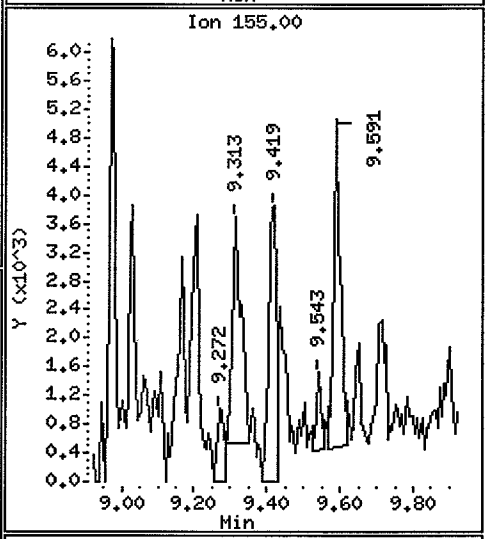
50 2,3,5-Trimethylnaphthalene

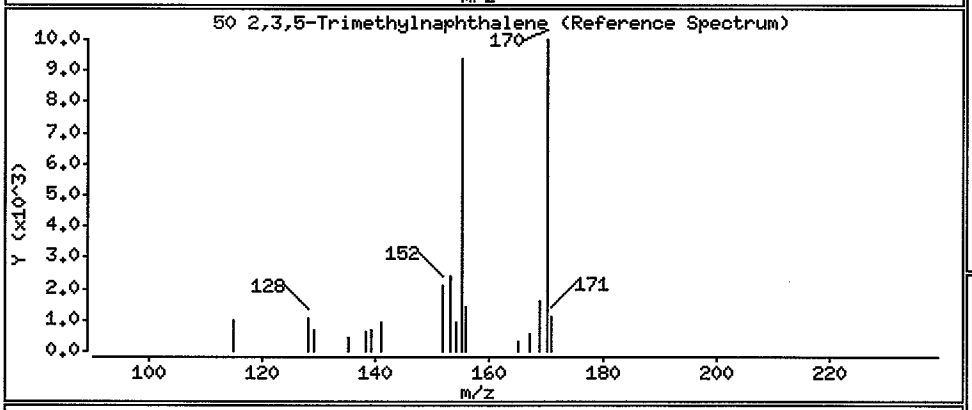
Concentration: 4.808 ug/kg

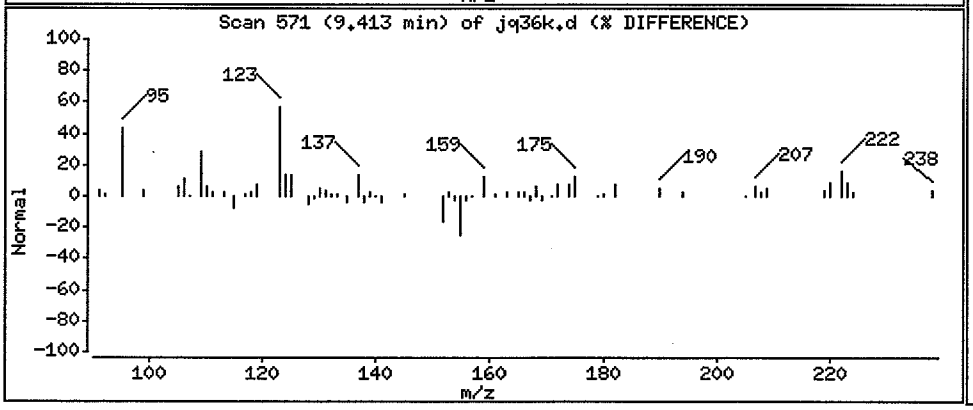


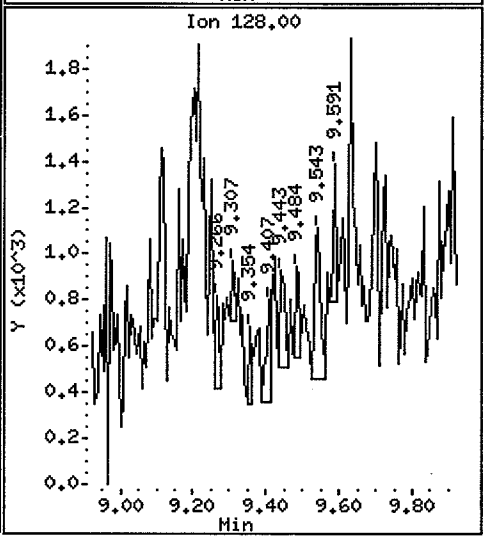












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

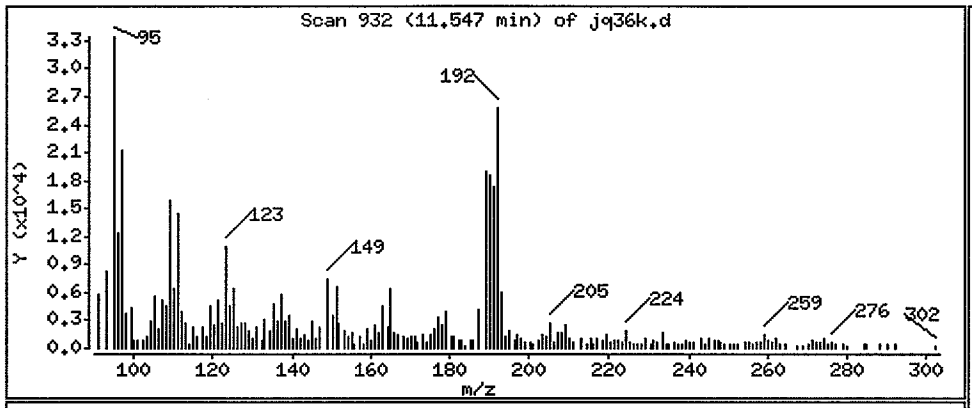
Operator: VTS

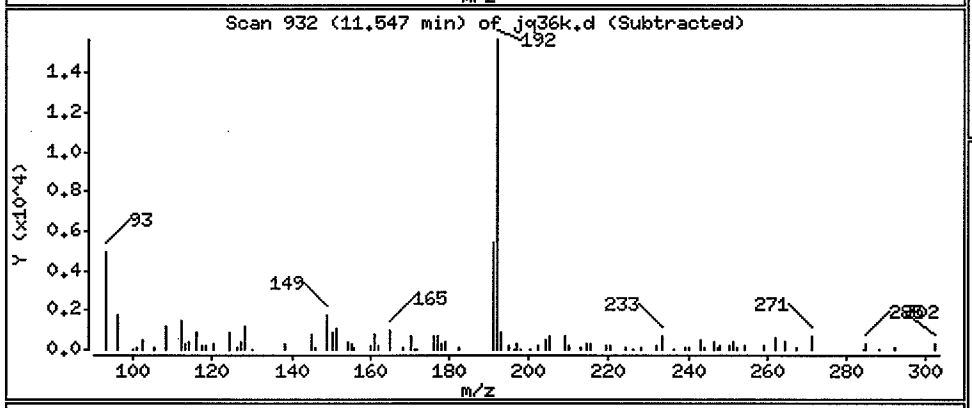
Column phase: ZB-5

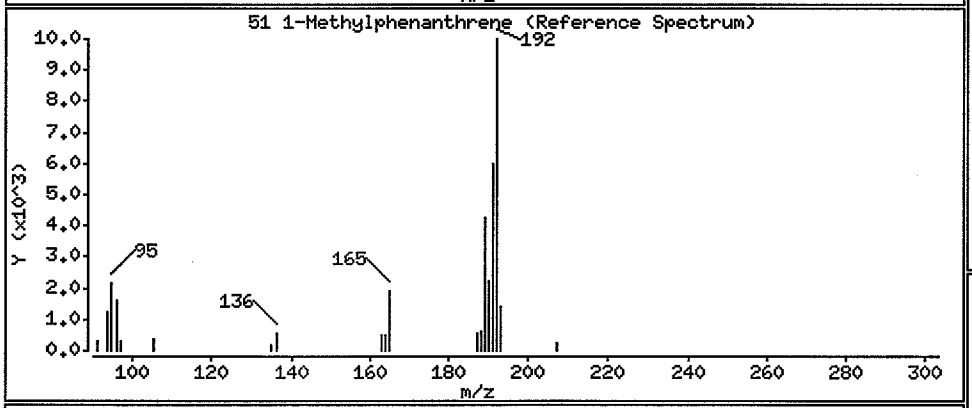
Column diameter: 0.25

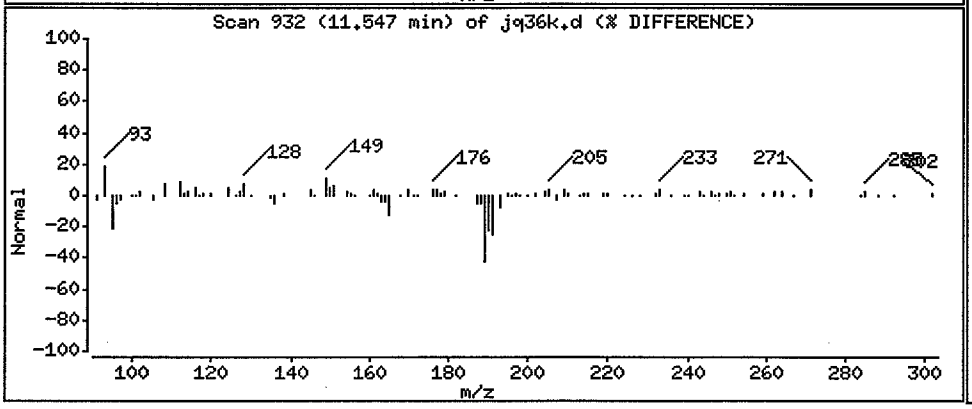
51 1-Methylphenanthrene

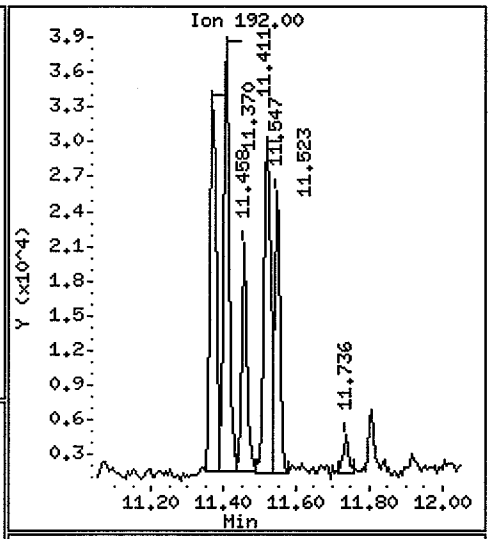
Concentration: 16.07 ug/kg

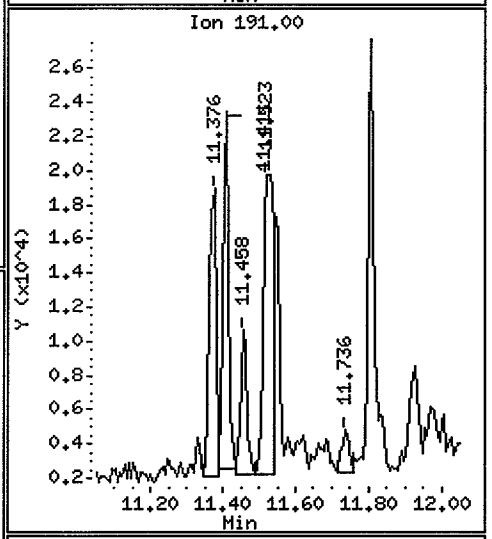


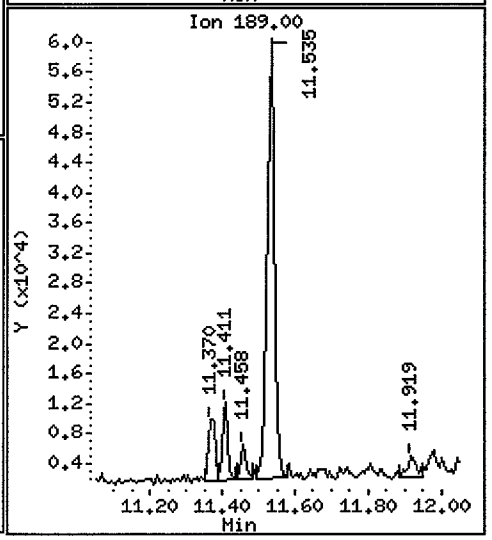












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

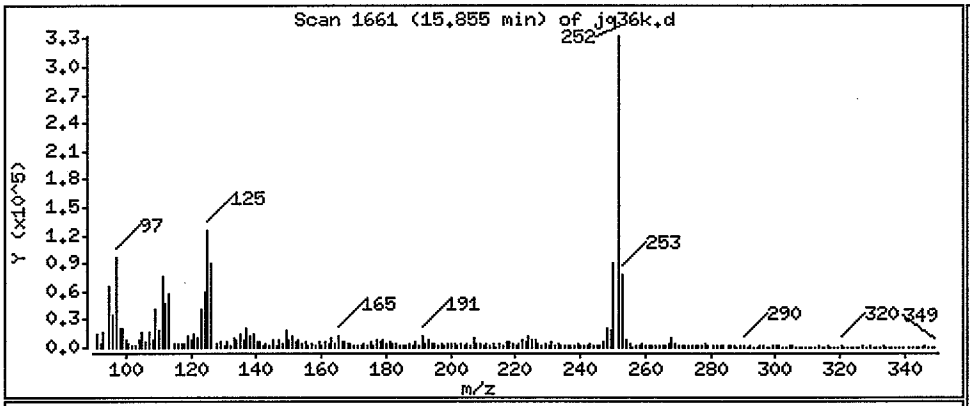
Operator: VTS

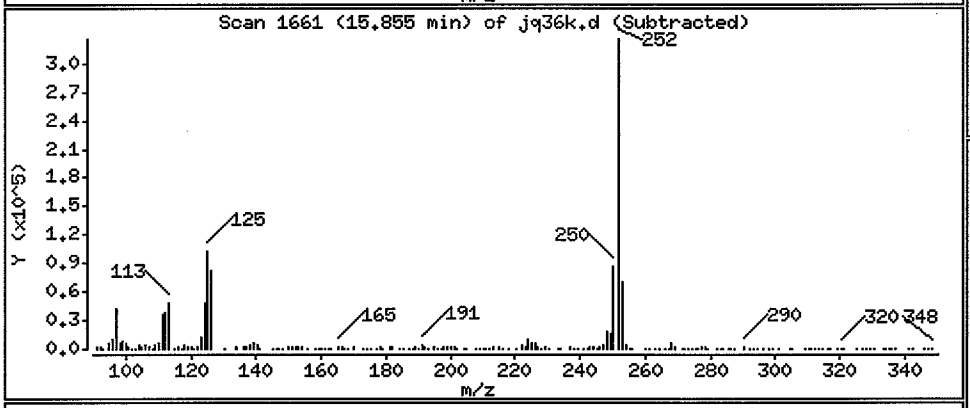
Column phase: ZB-5

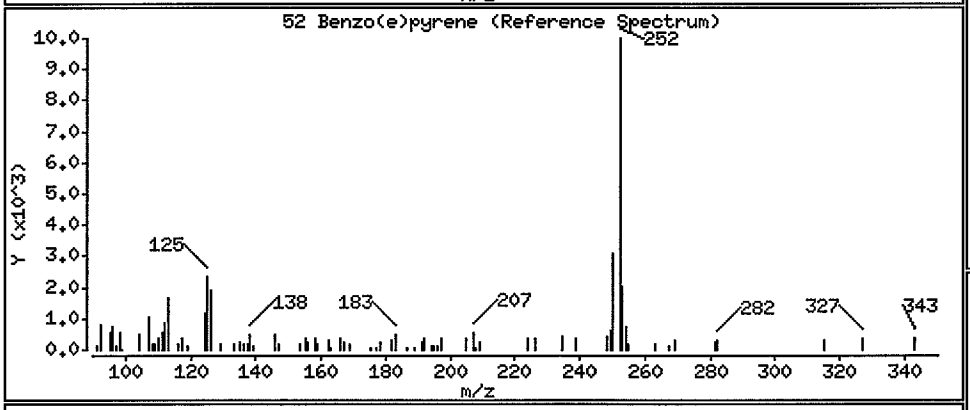
Column diameter: 0.25

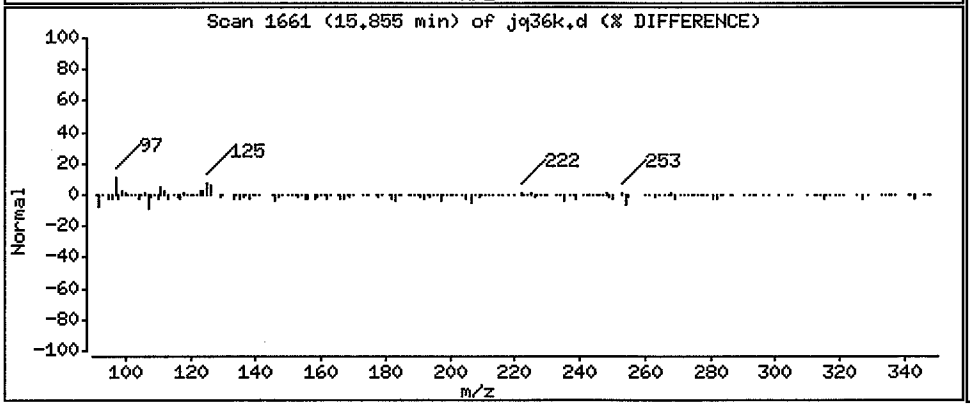
52 Benzo(e)pyrene

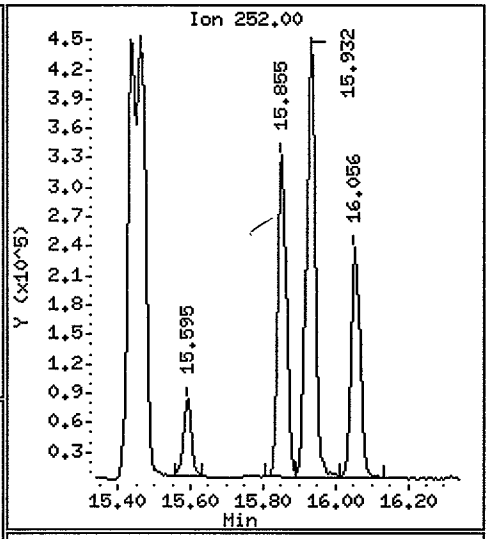
Concentration: 196.6 ug/kg

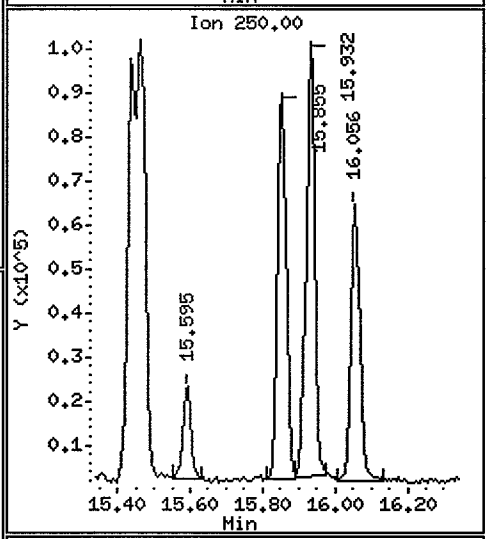


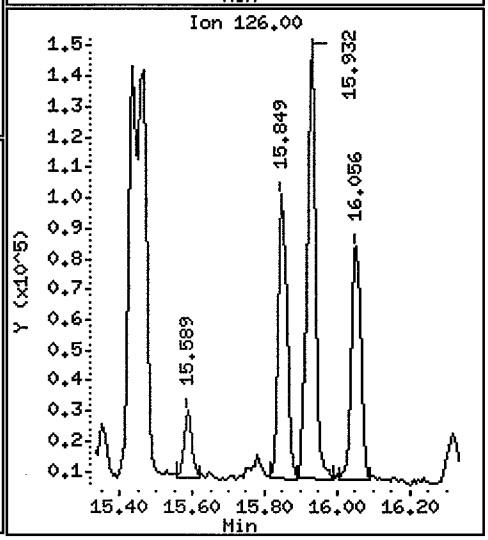












Data File: /chem3/nt1.i/20060810.b/jq36k.d

Date : 10-AUG-2006 19:35

Client ID: T4-WB-03

Instrument: nt1.i

Sample Info: JQ36K

Volume Injected (uL): 1.0

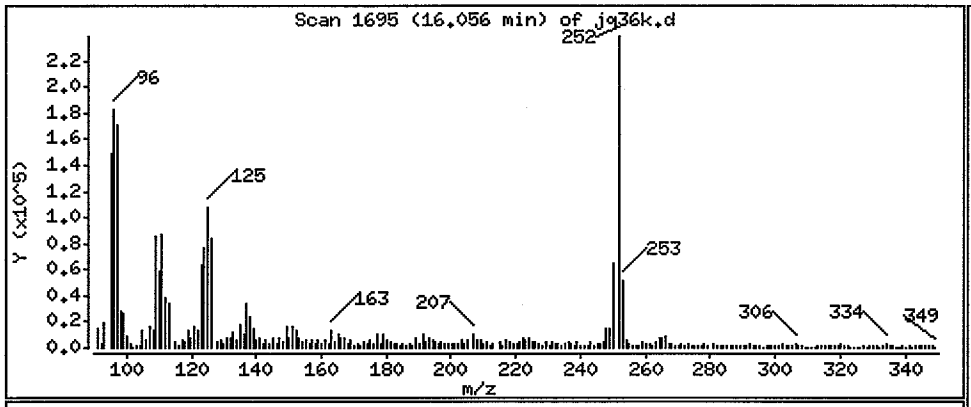
Operator: VTS

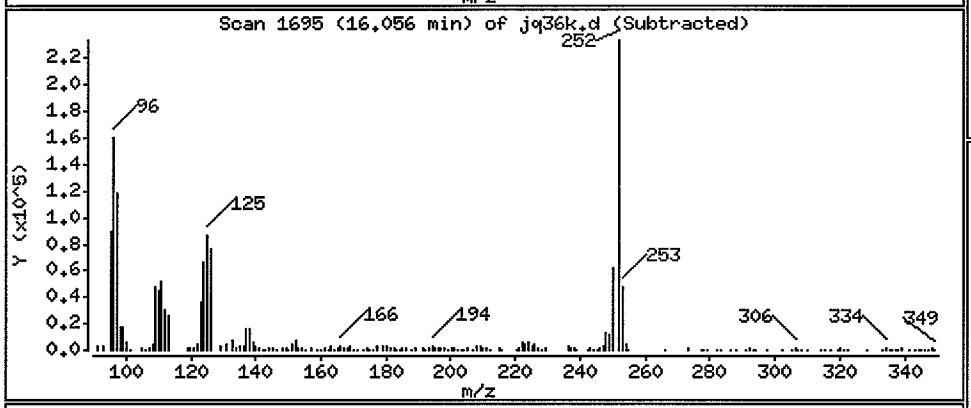
Column phase: ZB-5

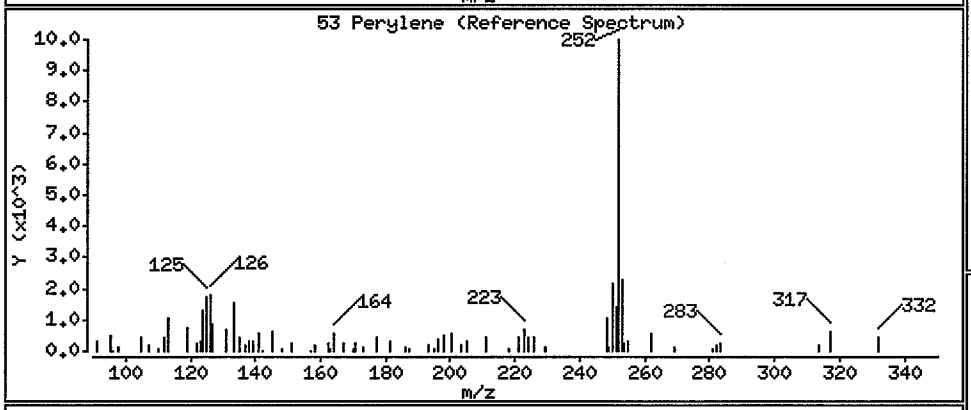
Column diameter: 0.25

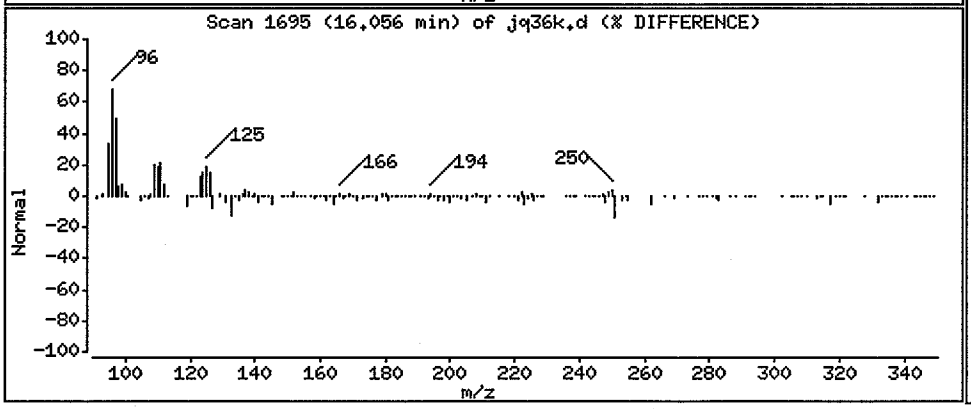
53 Perylene

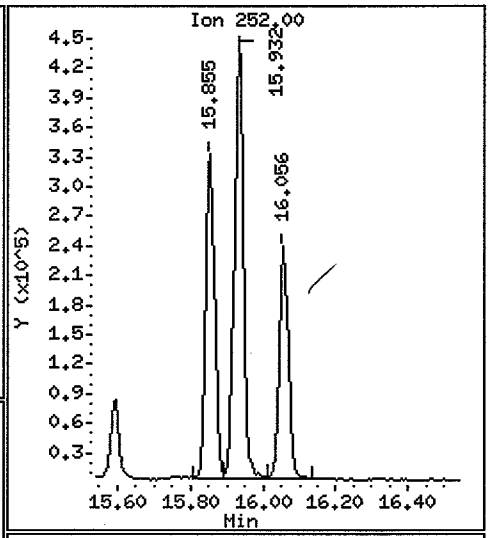
Concentration: 149.2 ug/kg

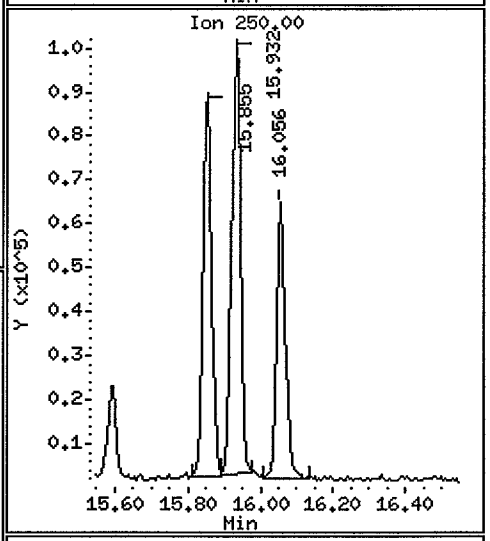


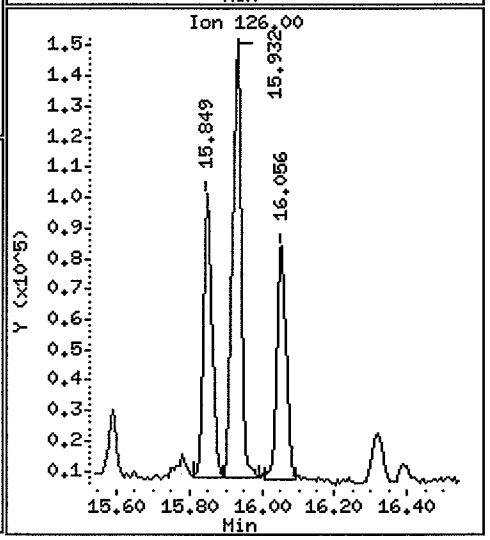












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-WB-04
SAMPLE

Lab Sample ID: JQ36L
LIMS ID: 06-12983
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 20:00
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 53.4%
pH: 6.5

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	20
91-57-6	2-Methylnaphthalene	5.0	9.0
90-12-0	1-Methylnaphthalene	5.0	5.0
208-96-8	Acenaphthylene	5.0	14
83-32-9	Acenaphthene	5.0	22
86-73-7	Fluorene	5.0	18
85-01-8	Phenanthrene	5.0	120
120-12-7	Anthracene	5.0	48
206-44-0	Fluoranthene	5.0	290
129-00-0	Pyrene	5.0	280
56-55-3	Benzo(a)anthracene	5.0	130
218-01-9	Chrysene	5.0	190
205-99-2	Benzo(b)fluoranthene	5.0	150
207-08-9	Benzo(k)fluoranthene	5.0	160
50-32-8	Benzo(a)pyrene	5.0	160
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	70
53-70-3	Dibenz(a,h)anthracene	5.0	23
191-24-2	Benzo(g,h,i)perylene	5.0	79
198-55-0	Perylene	5.0	88
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	6.5
832-69-9	1-Methylphenanthrene	5.0	12
192-97-2	Benzo(e)pyrene	5.0	110
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	49.3%
d14-Dibenzo(a,h)anthracen	35.3%

0526

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/jq36l.d
Lab Smp Id: JQ36L Client Smp ID: T4-WB-04
Inj Date : 10-AUG-2006 20:00
Operator : VTS Inst ID: nt1.i
Smp Info : JQ36L
Misc Info : 06-12983
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 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	21.50000	Weight of sample extracted (g)
M	53.40000	% 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	6.871	6.874	(1.000)	280878	2.00000	
	2 Naphthalene	128	6.895	6.898	(1.003)	55896	0.39897	19.91
$	3 2-Methylnaphthalene-d10	152	7.628	7.630	(1.110)	106784	1.47603	73.66
	4 2-Methylnaphthalene	142	7.669	7.666	(1.116)	15197	0.18317	9.141
	5 1-Methylnaphthalene	142	7.799	7.796	(1.135)	9069	0.10421	5.200
	7 Acenaphthylene	152	8.757	8.753	(0.980)	33524	0.27724	13.84
*	8 Acenaphthene-d10	164	8.934	8.937	(1.000)	145849	2.00000	
	9 Acenaphthene	153	8.975	8.972	(1.005)	31891	0.44532	22.22
	10 Dibenzofuran	168	9.164	9.161	(1.026)	17995	0.17059	8.513
	11 Fluorene	166	9.584	9.587	(1.073)	28455	0.34651	17.29
*	15 Phenanthrene-d10	188	10.748	10.745	(1.000)	222223	2.00000	
	16 Phenanthrene	178	10.778	10.775	(1.003)	271693	2.38194	118.9
	17 Anthracene	178	10.831	10.828	(1.008)	109711	0.96248	48.03
	19 Fluoranthene	202	12.267	12.270	(1.141)	680045	5.84523	291.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.557	12.554	(0.893)	770871	5.50347	274.7	
	22 Benzo(a)anthracene	228	14.040	14.037	(0.998)	335301	2.55259	127.4	
*	23 Chrysene-d12	240	14.064	14.055	(1.000)	218134	2.00000		
	24 Chrysene	228	14.093	14.090	(1.002)	459609	3.79347	189.3	
	28 Benzo(b)fluoranthene	252	15.435	15.426	(0.964)	385954	3.01624	150.5	
	29 Benzo(k)fluoranthene	252	15.459	15.455	(0.965)	422987	3.10071	154.7	
	30 Benzo(a)pyrene	252	15.932	15.916	(0.995)	402694	3.22973	161.2	
*	31 Perylene-d12	264	16.014	15.999	(1.000)	226726	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.976	17.949	(1.123)	198639	1.38535	69.14	
$	32 Dibenz(a,h)anthrancene-d14	292	17.900	17.873	(1.118)	91719	1.05707	52.75	
	34 Dibenz(a,h)anthracene	278	17.965	17.944	(1.122)	53485	0.45661	22.79	
	35 Benzo(g,h,i)perylene	276	18.556	18.529	(1.159)	188753	1.58363	79.03	
	48 Biphenyl	154	8.201	8.204	(0.918)	6265	0.06952	3.470	J
	49 2,6-Dimethylnaphthalene	156	8.396	8.399	(0.940)	8911	0.12555	6.266	
	50 2,3,5-Trimethylnaphthalene	170	9.413	9.421	(1.054)	5483	0.09432	4.707	J
	51 1-Methylphenanthrene	192	11.546	11.549	(0.821)	20767	0.23258	11.61	
	52 Benzo(e)pyrene	252	15.849	15.840	(0.990)	311105	2.25415	112.5	
	53 Perylene	252	16.056	16.040	(1.003)	229329	1.76971	88.32	

VTS

8.11.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq36l.d
Lab Smp Id: JQ36L
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12983

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Client Smp ID: T4-WB-04
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	280878	10.93
8 Acenaphthene-d10	122198	61099	244396	145849	19.35
15 Phenanthrene-d10	181565	90782	363130	222223	22.39
23 Chrysene-d12	143956	71978	287912	218134	51.53
31 Perylene-d12	157395	78698	314790	226726	44.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.04
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.03
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.03
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.07
31 Perylene-d12	16.00	15.50	16.50	16.01	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.

Analytical Resources, Inc.

RECOVERY REPORT

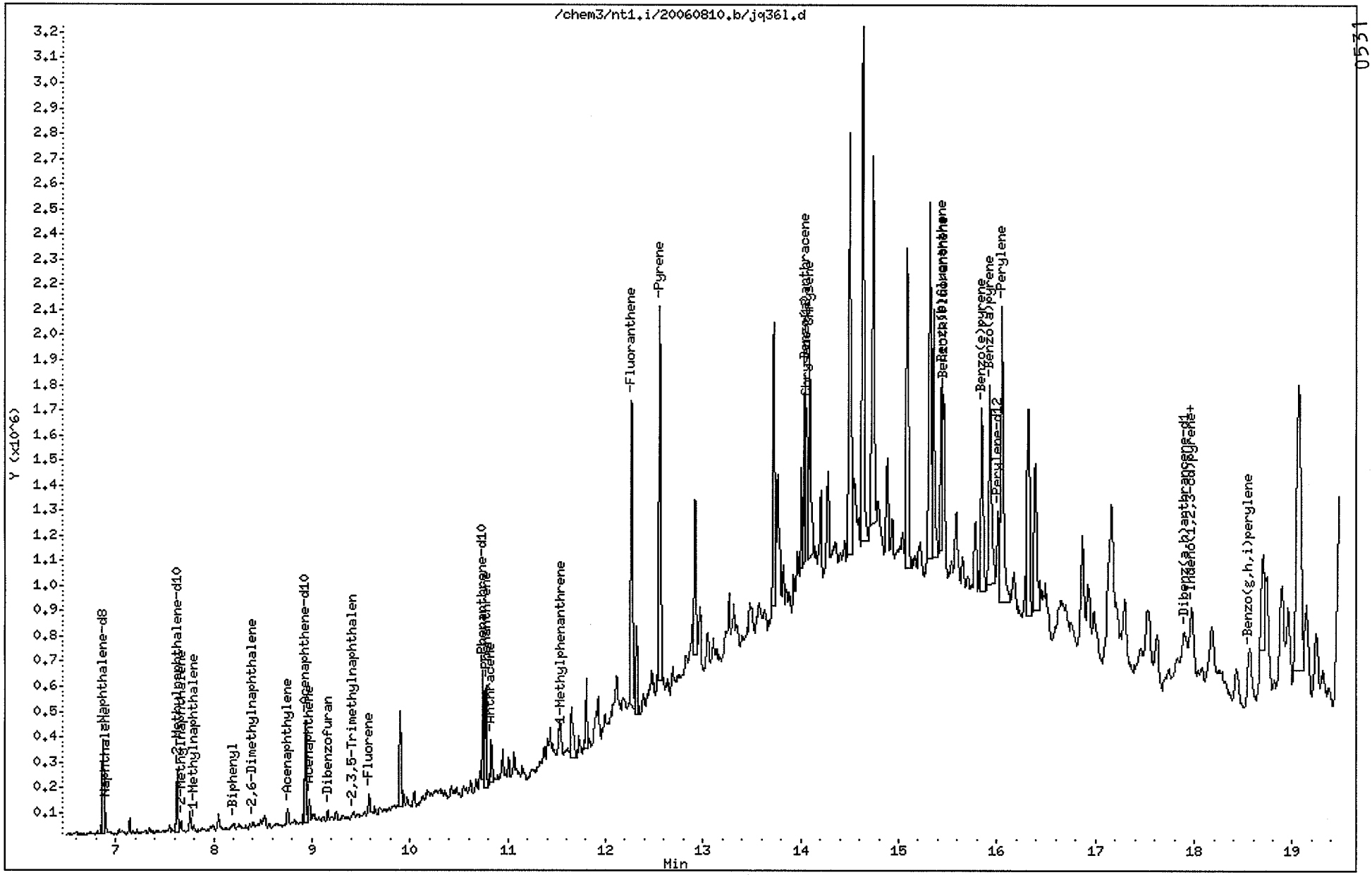
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ36L
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info: 06-12983

Client SDG: JQ36
Fraction: SV
Client Smp ID: T4-WB-04
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	149.7	73.66	49.20	32-97
$ 32 Dibenz(a,h)anthran	149.7	52.75	35.24	21-105

Data File: /chem3/nt1.i/20060810.b/jq361.d
Date : 10-AUG-2006 20:00
Client ID: T4-WB-04
Sample Info: JQ36L
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

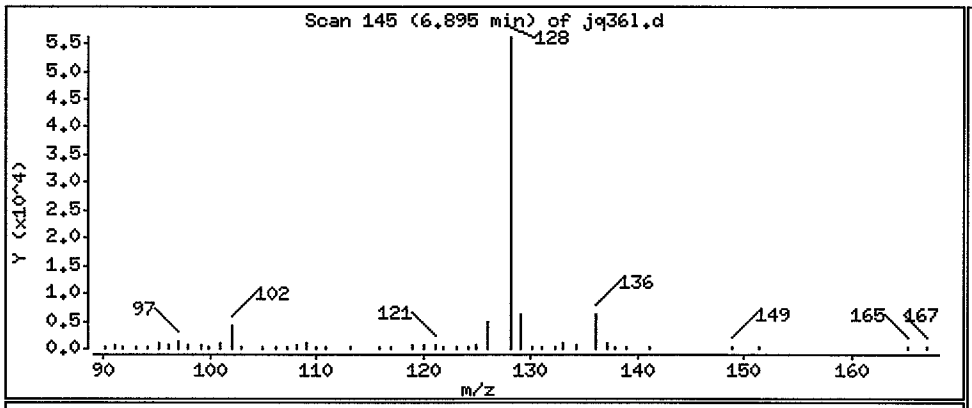
Operator: VTS

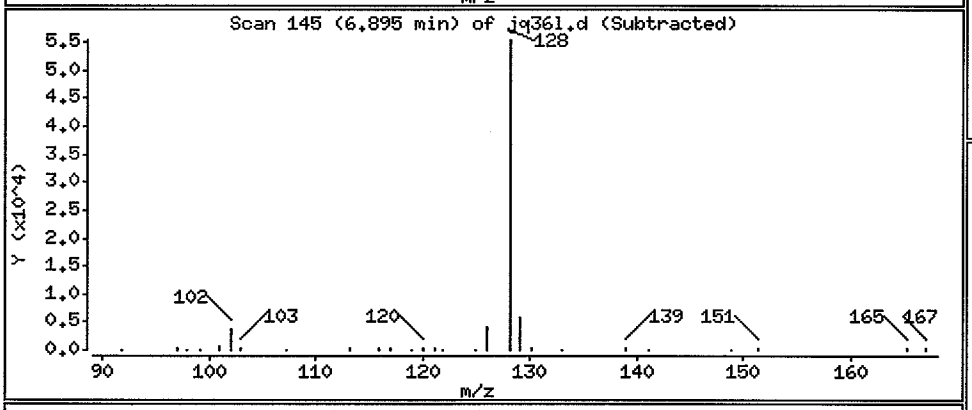
Column phase: ZB-5

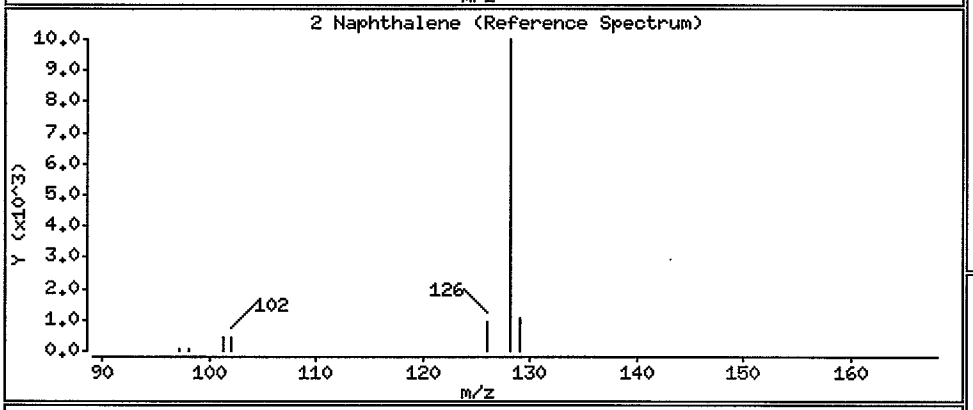
Column diameter: 0.25

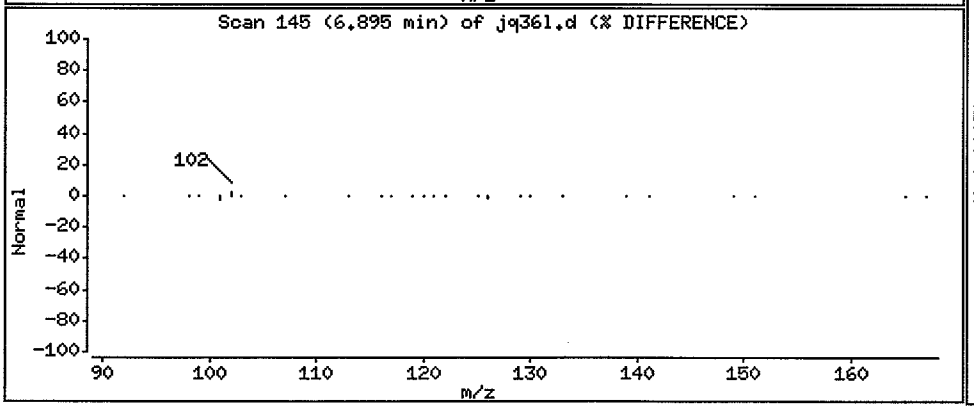
2 Naphthalene

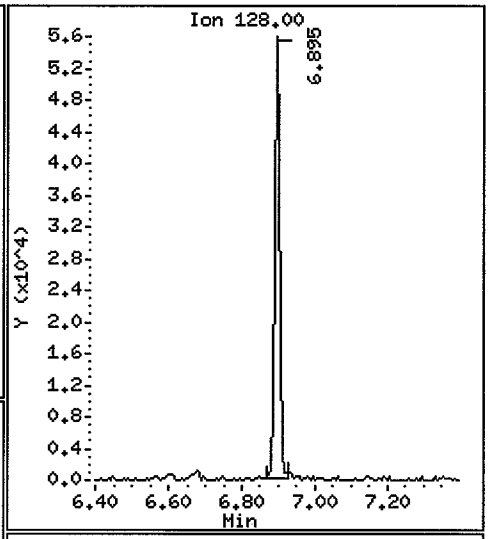
Concentration: 19.91 ug/kg

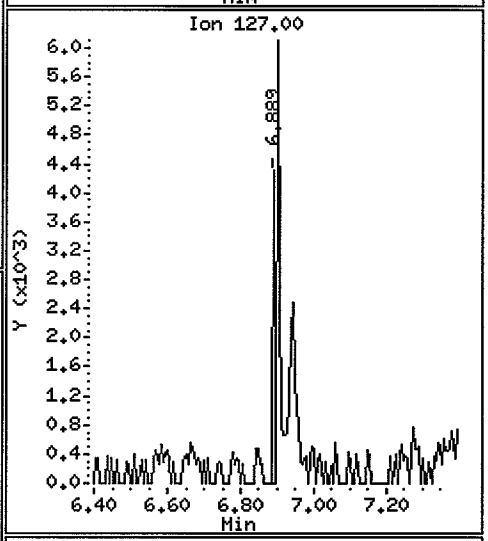


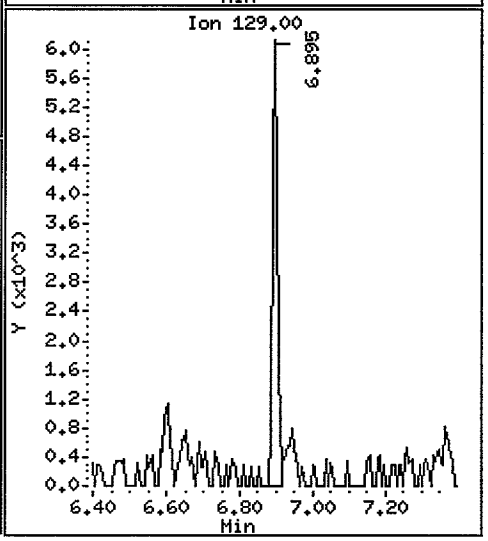












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

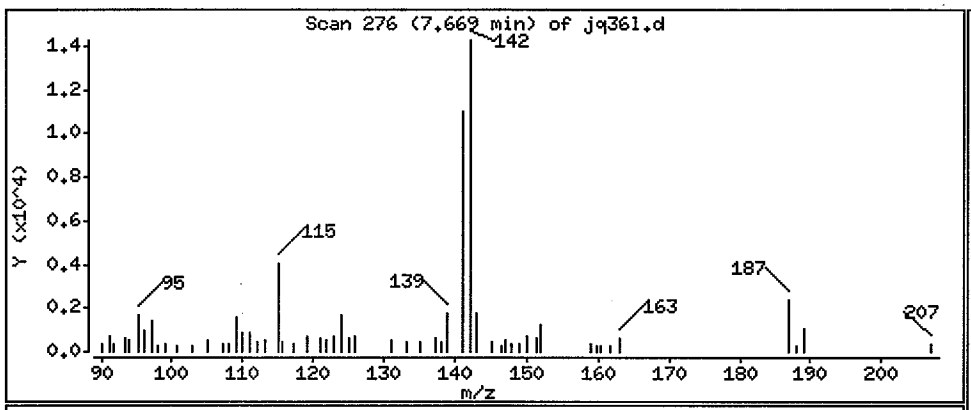
Operator: VTS

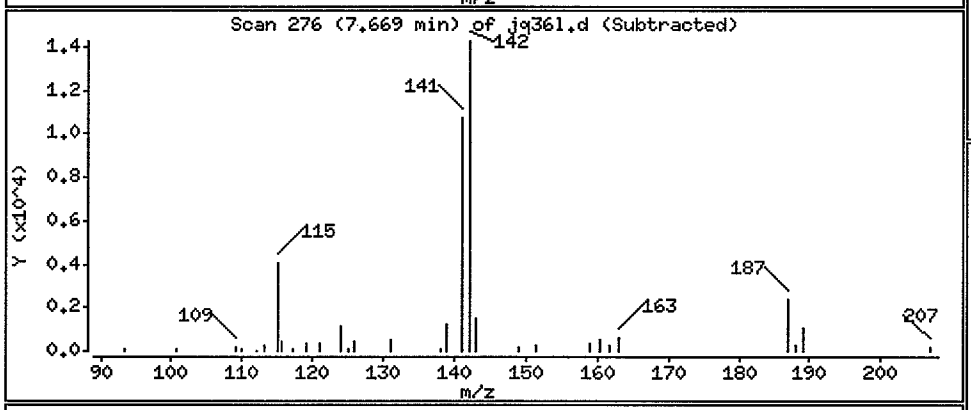
Column phase: ZB-5

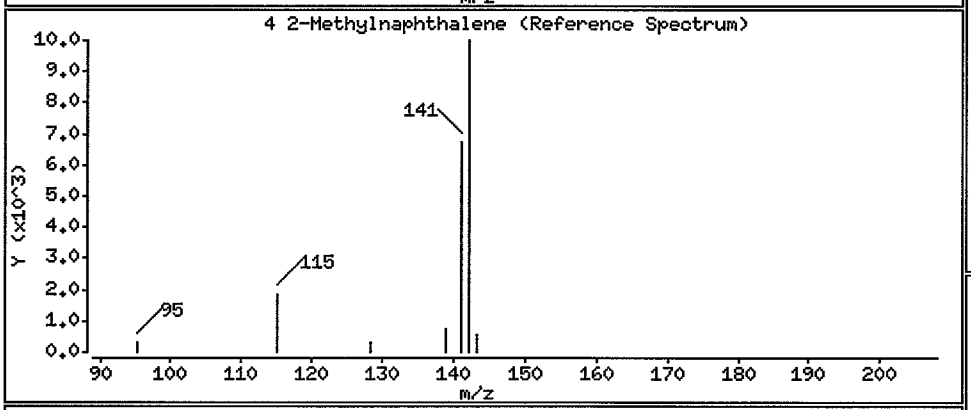
Column diameter: 0.25

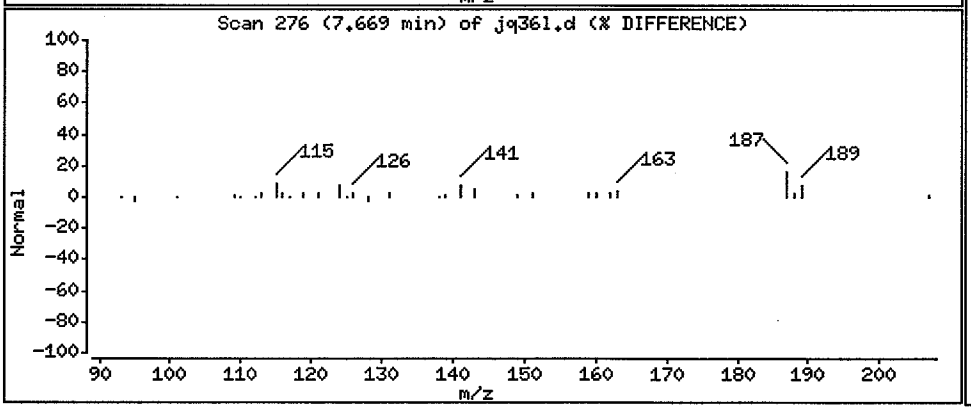
4 2-Methylnaphthalene

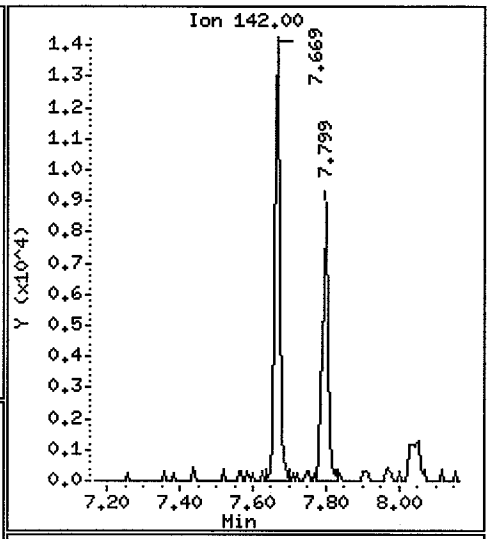
Concentration: 9.141 ug/kg

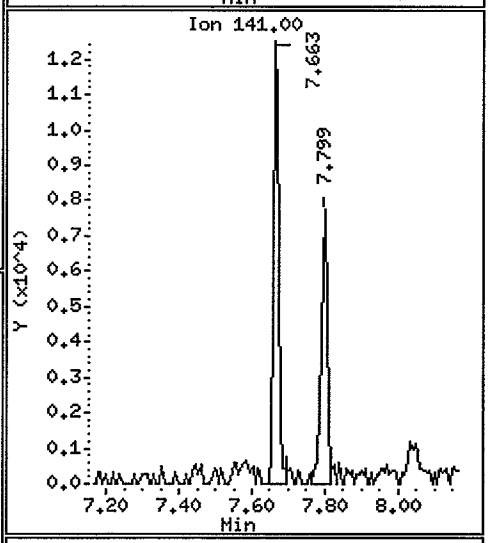


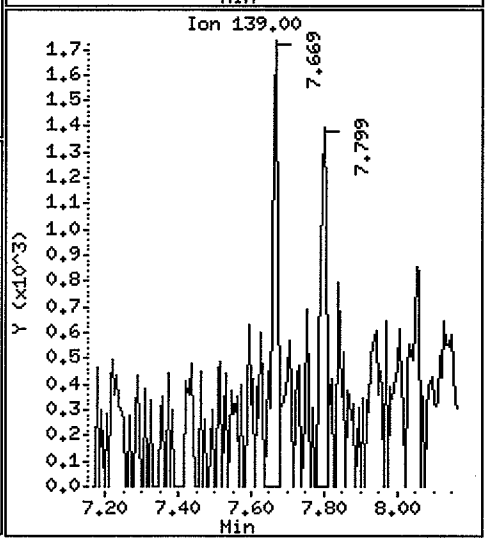












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

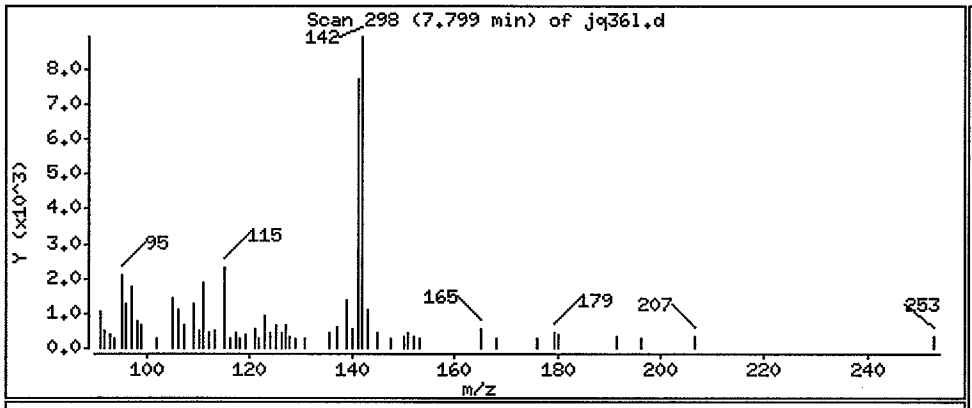
Operator: VTS

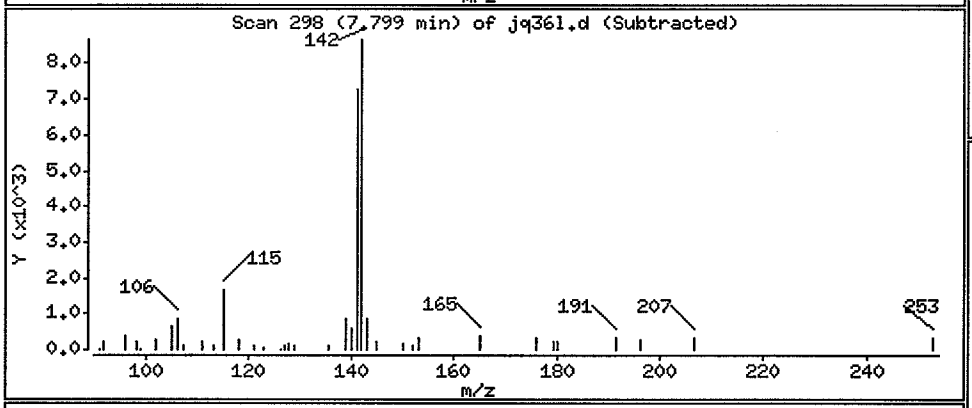
Column phase: ZB-5

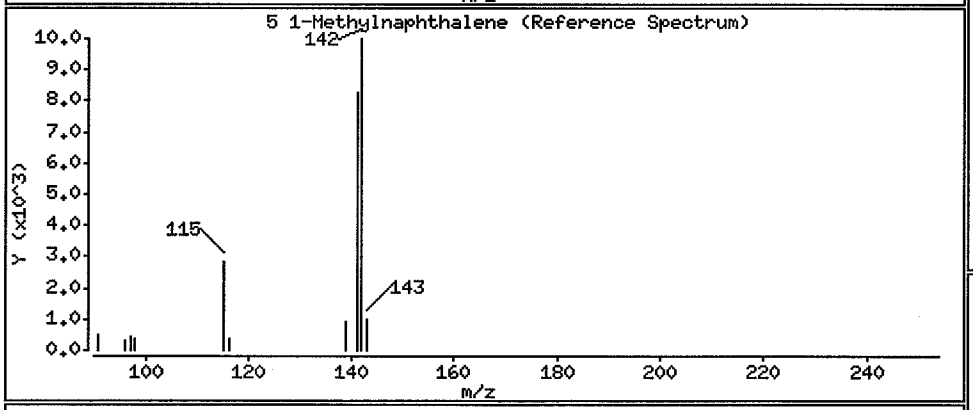
Column diameter: 0.25

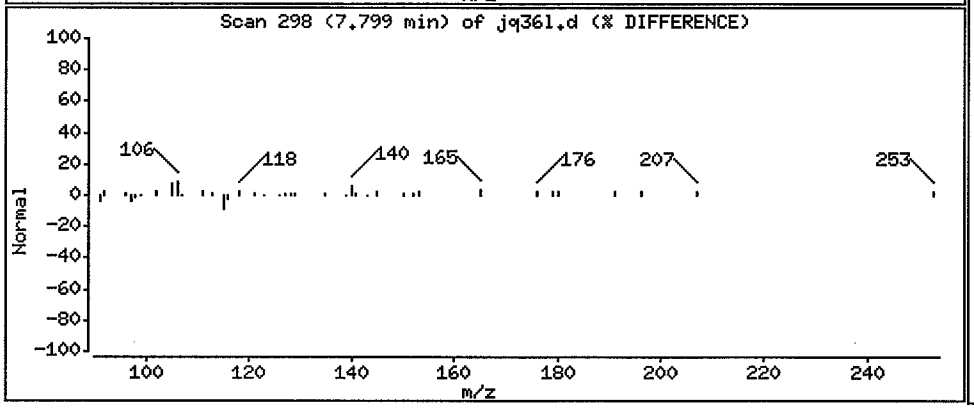
5 1-Methylnaphthalene

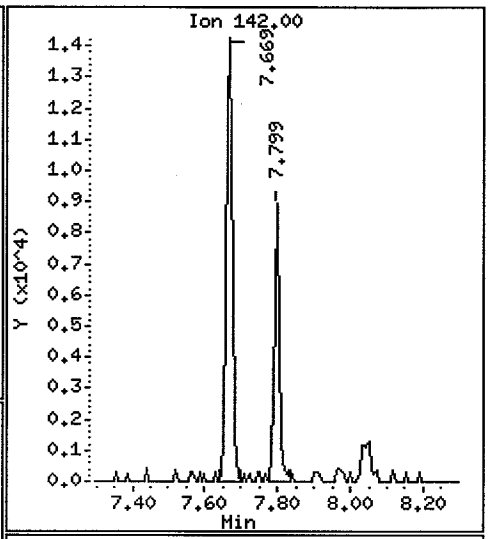
Concentration: 5.200 ug/kg

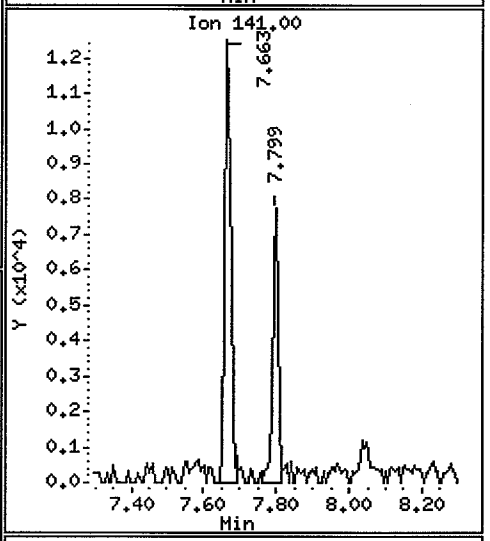


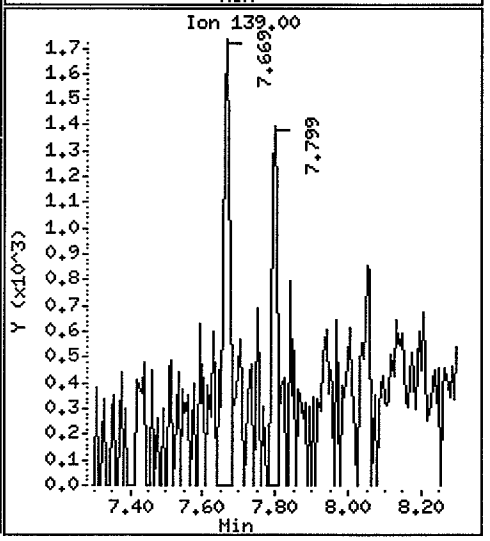












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

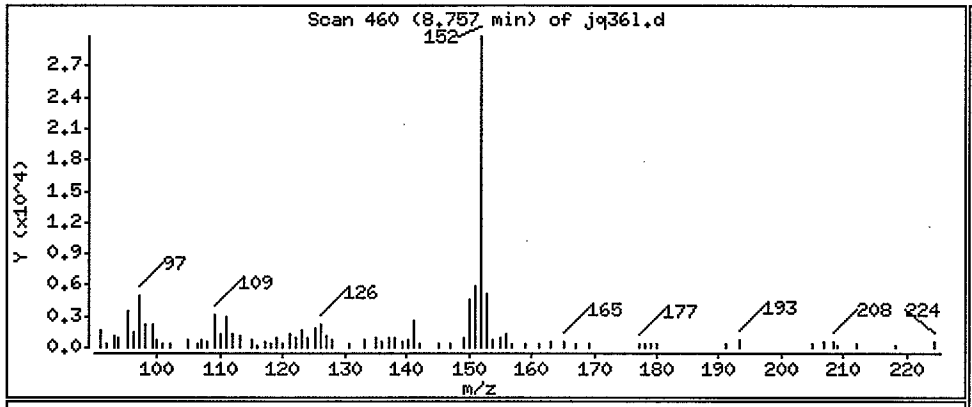
Operator: VTS

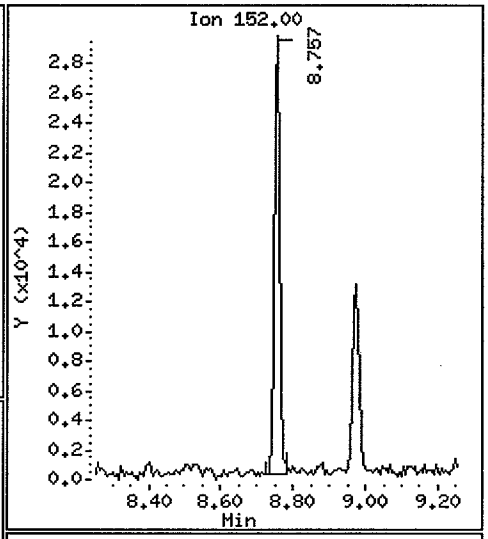
Column phase: ZB-5

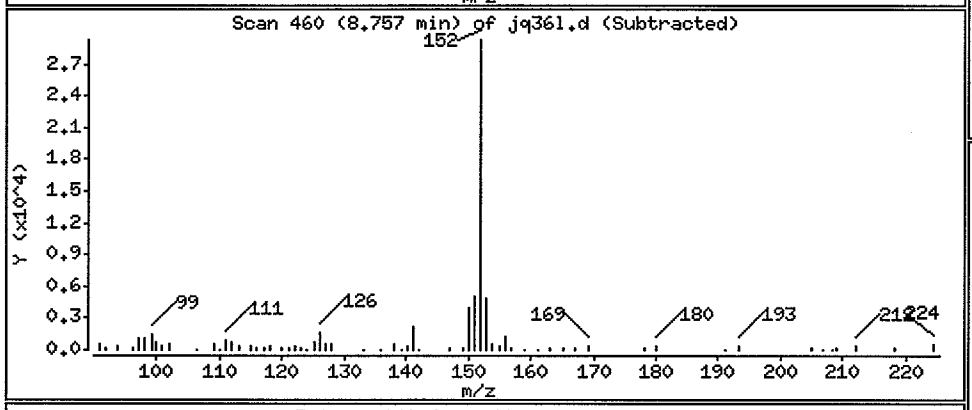
Column diameter: 0.25

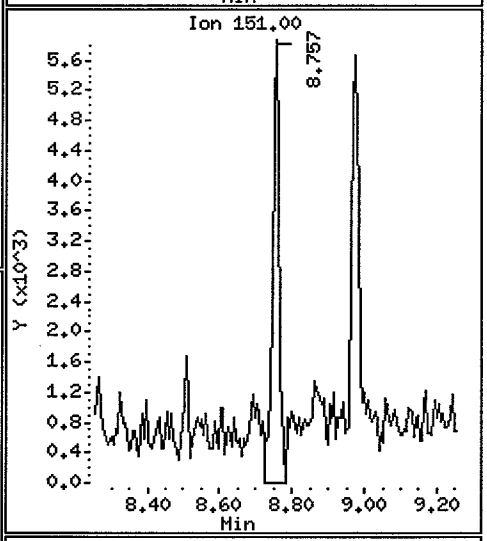
7 Acenaphthylene

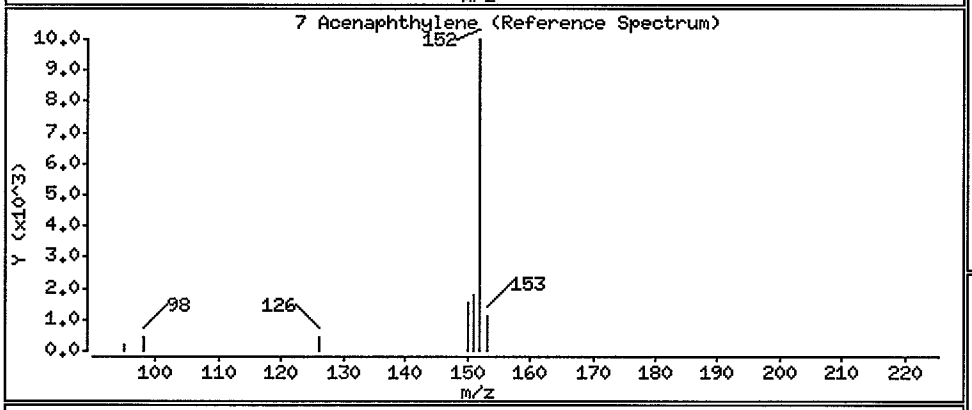
Concentration: 13.84 ug/kg

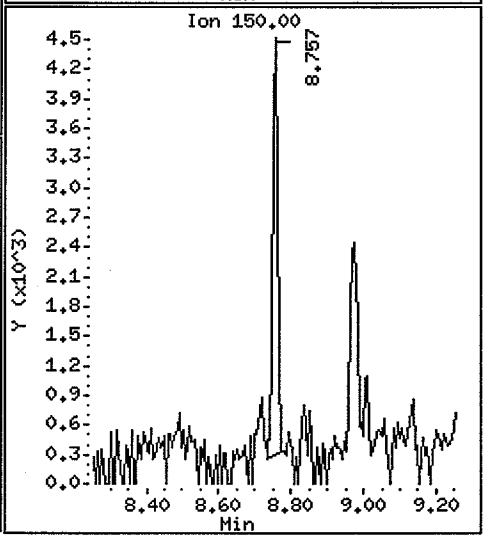


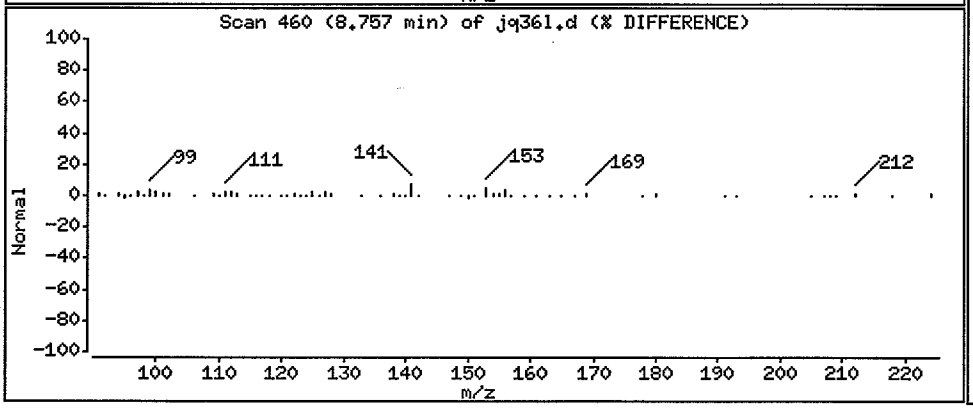












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

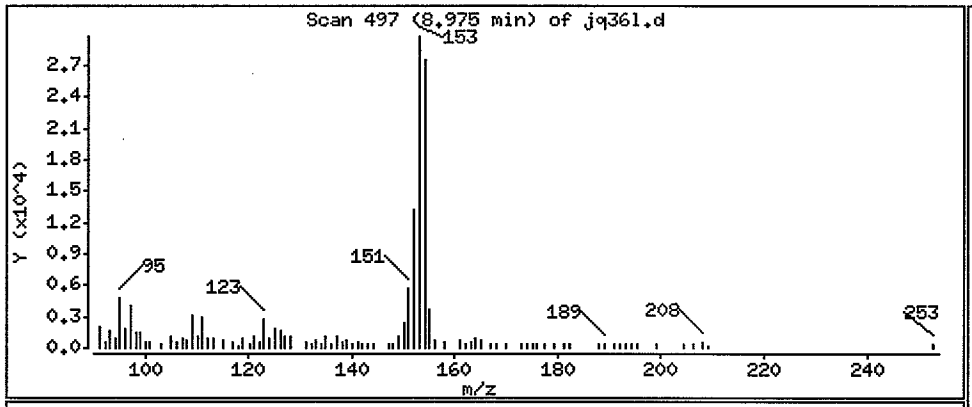
Operator: VTS

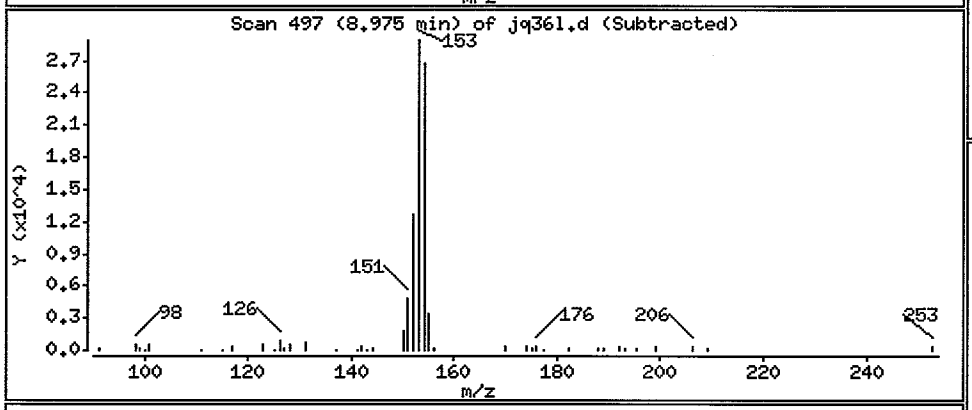
Column phase: ZB-5

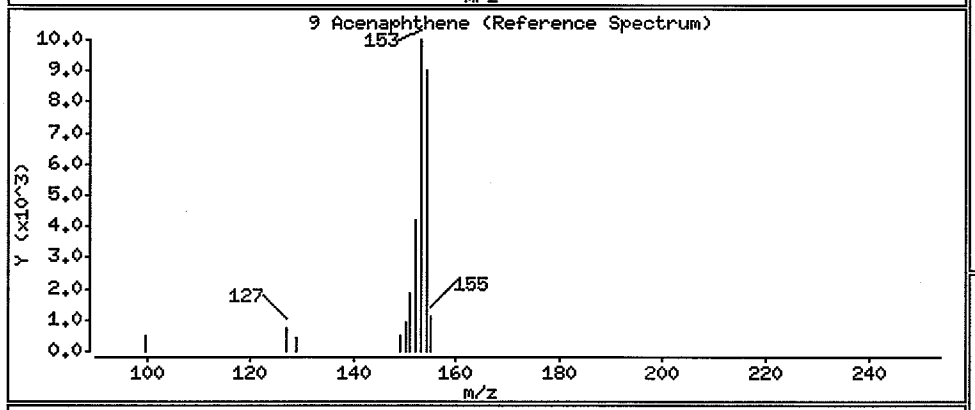
Column diameter: 0.25

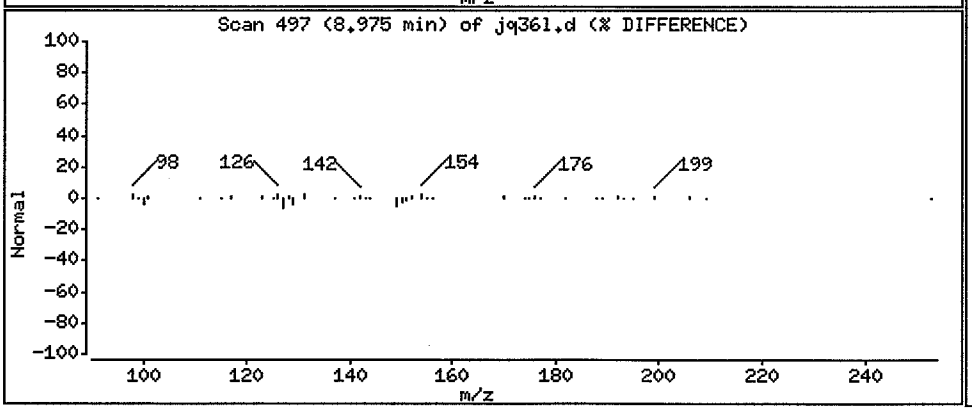
9 Acenaphthene

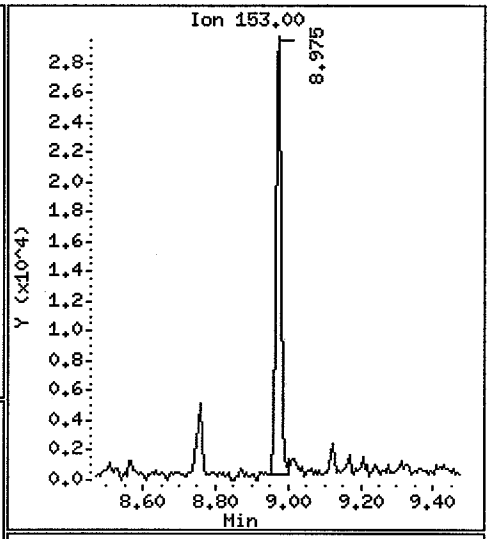
Concentration: 22.22 ug/kg

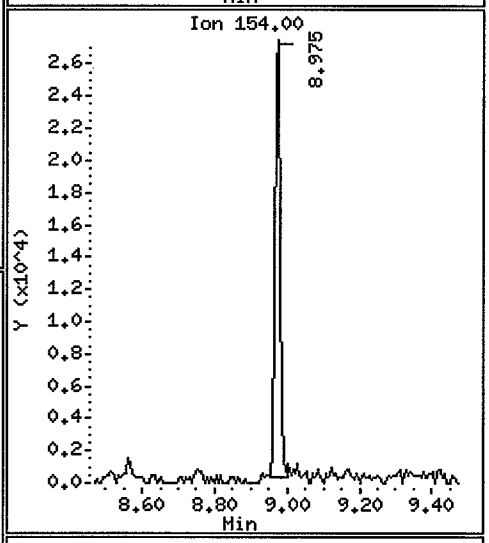


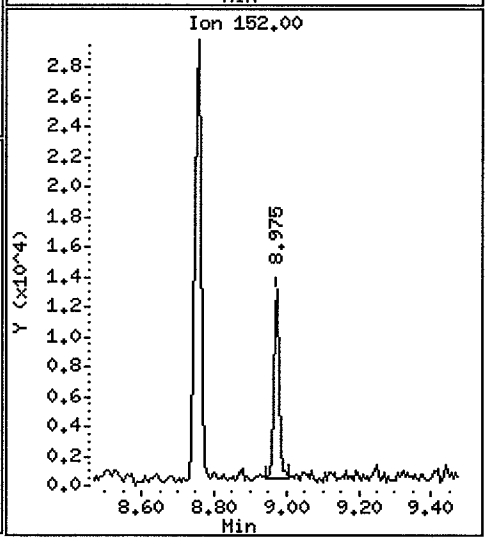












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

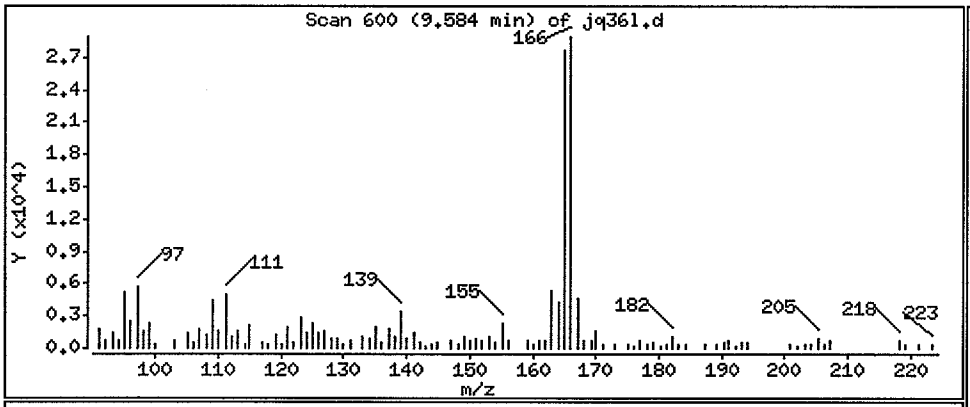
Operator: VTS

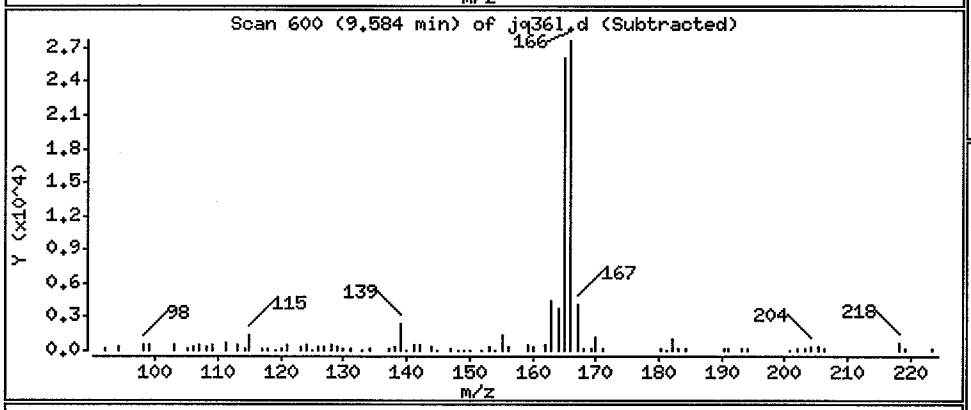
Column phase: ZB-5

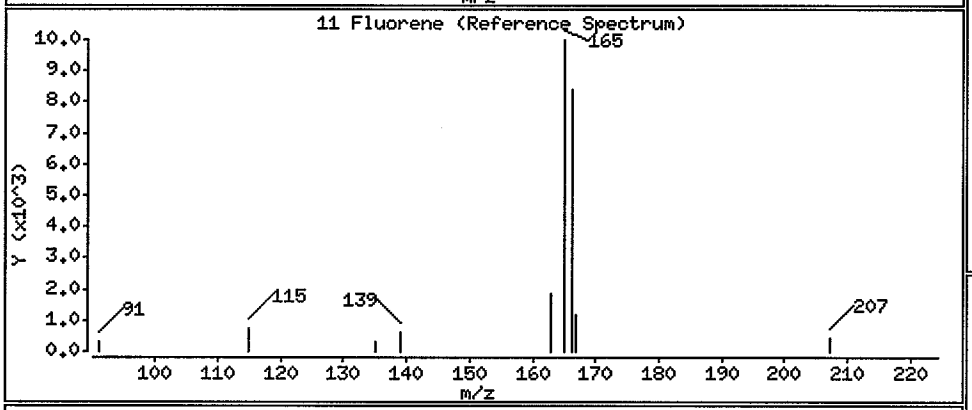
Column diameter: 0.25

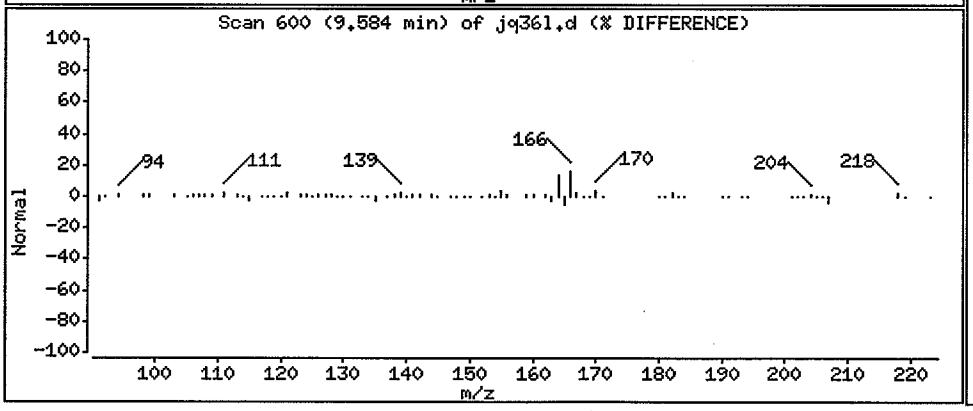
11 Fluorene

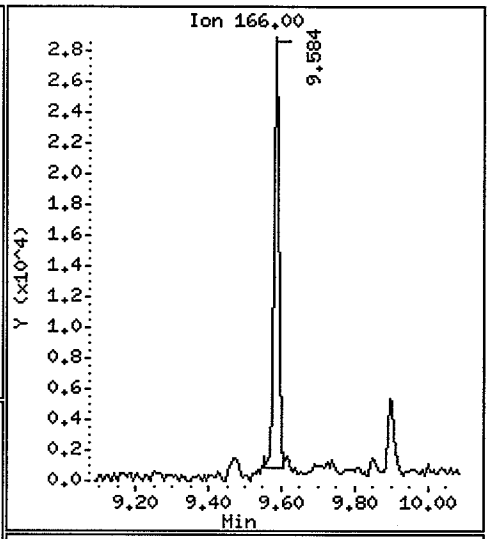
Concentration: 17.29 ug/kg

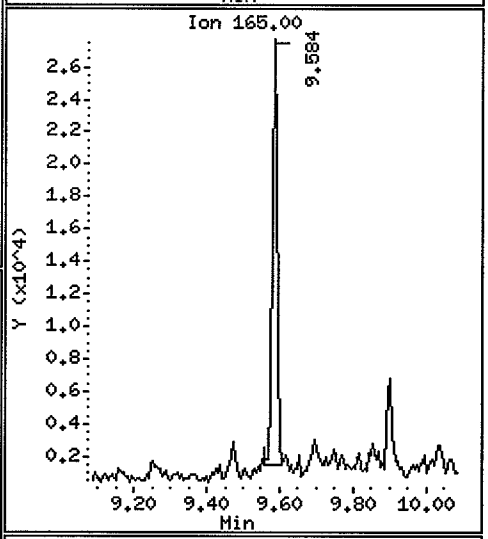


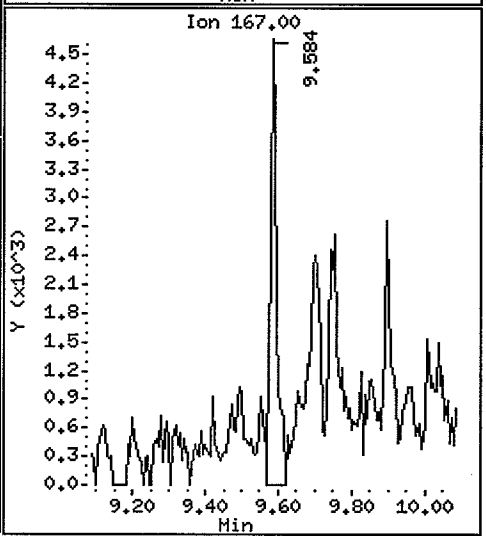












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

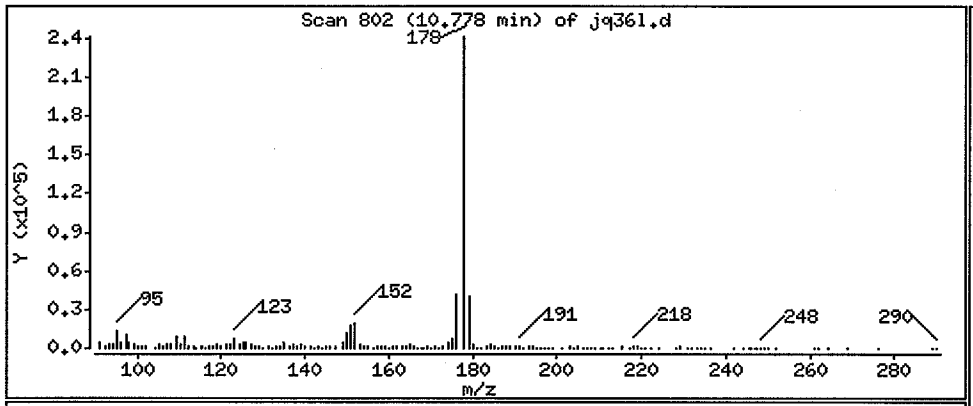
Operator: VTS

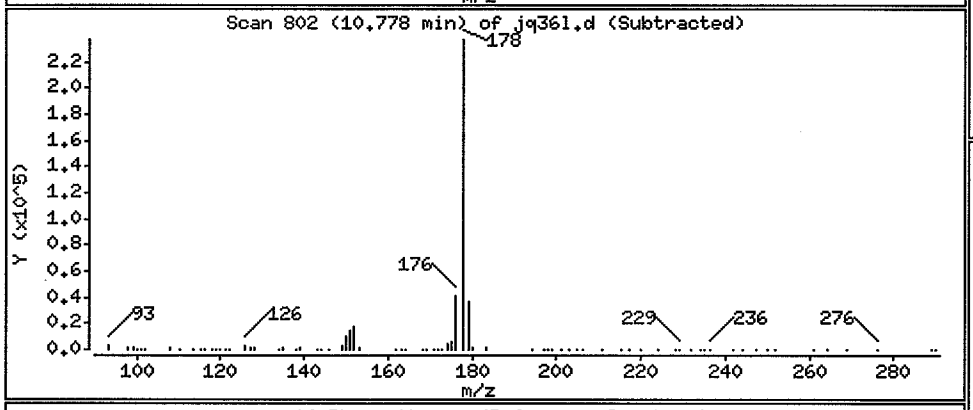
Column phase: ZB-5

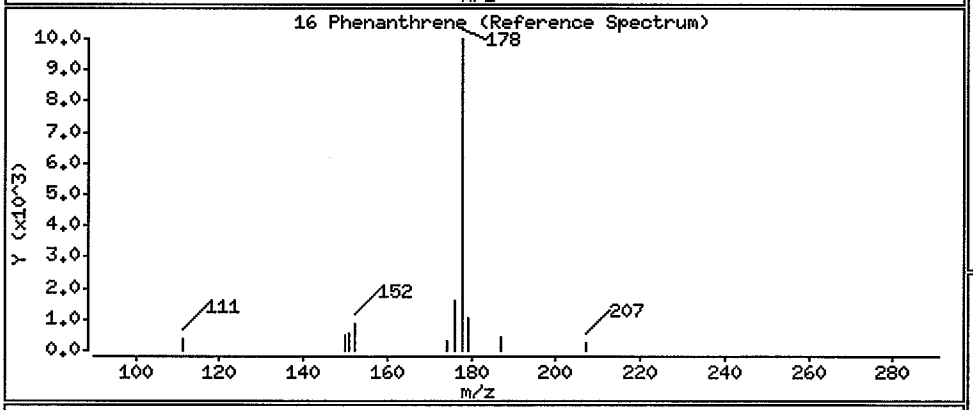
Column diameter: 0.25

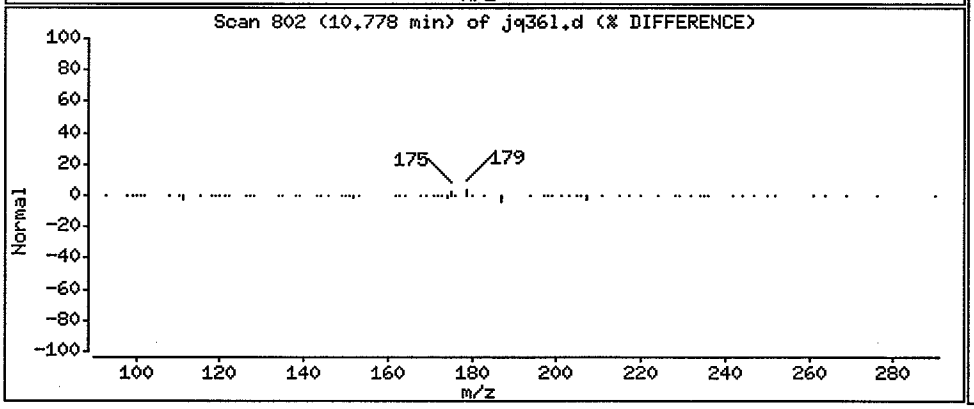
16 Phenanthrene

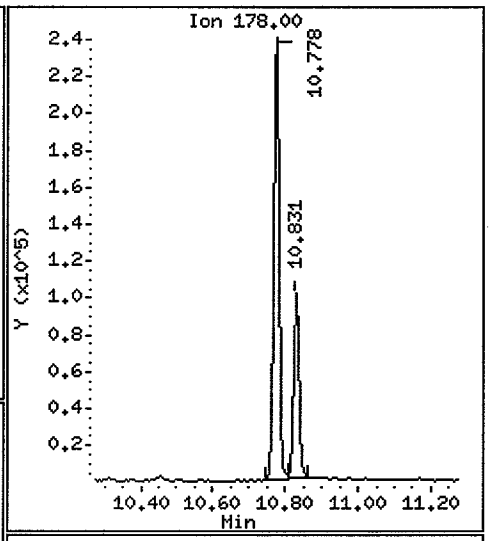
Concentration: 118.9 ug/kg

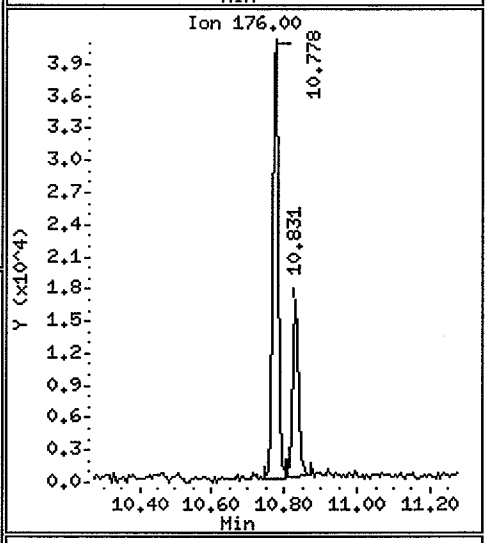


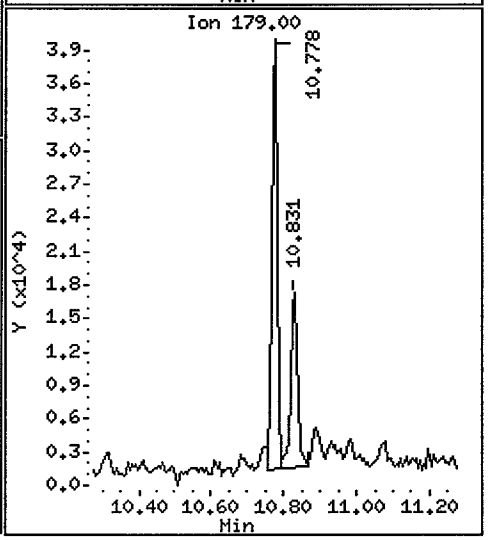












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

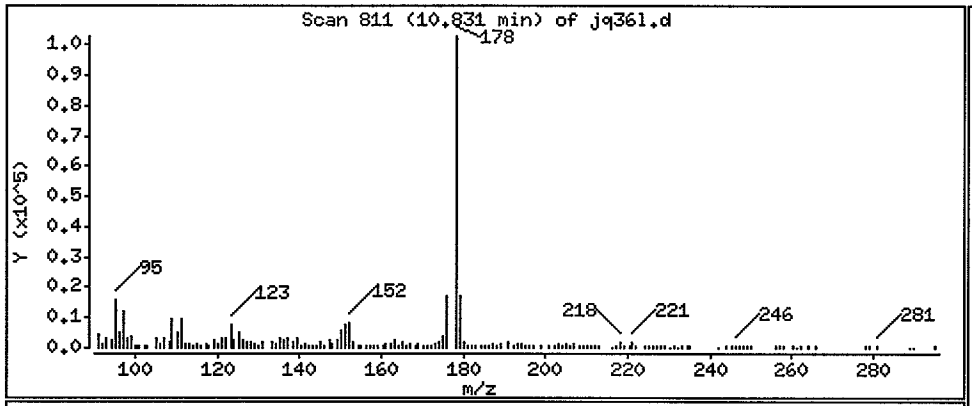
Operator: VTS

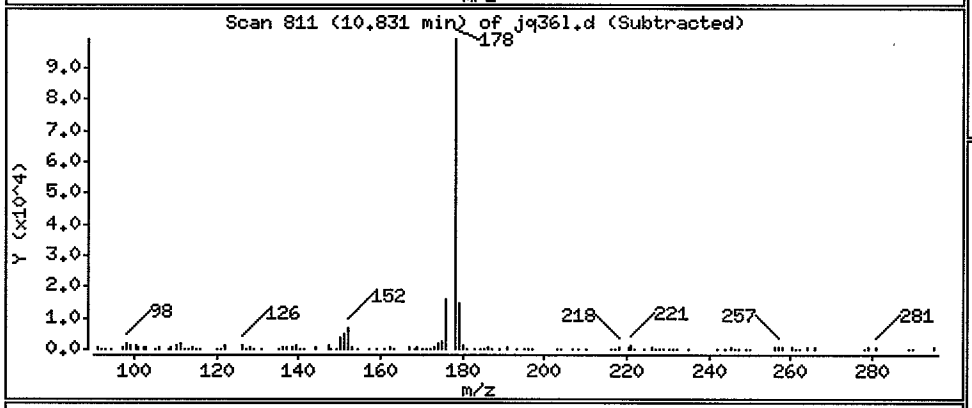
Column phase: ZB-5

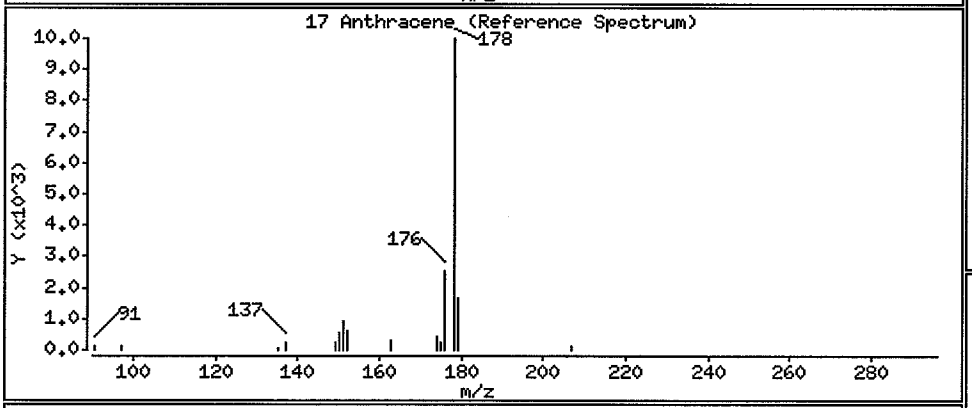
Column diameter: 0.25

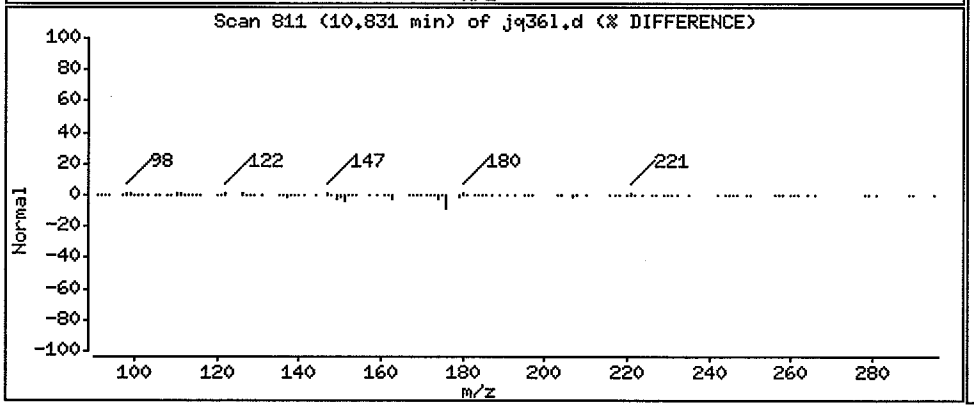
17 Anthracene

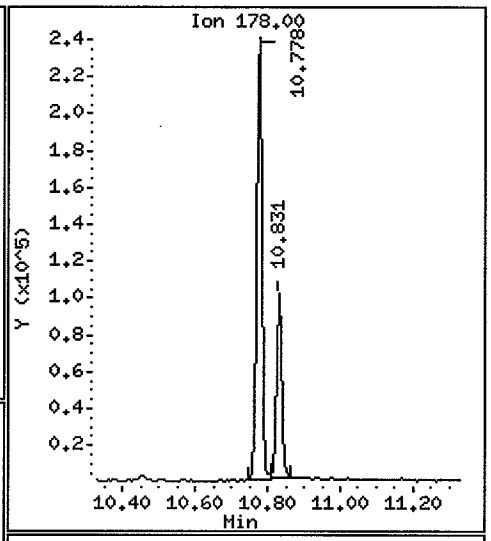
Concentration: 48.03 ug/kg

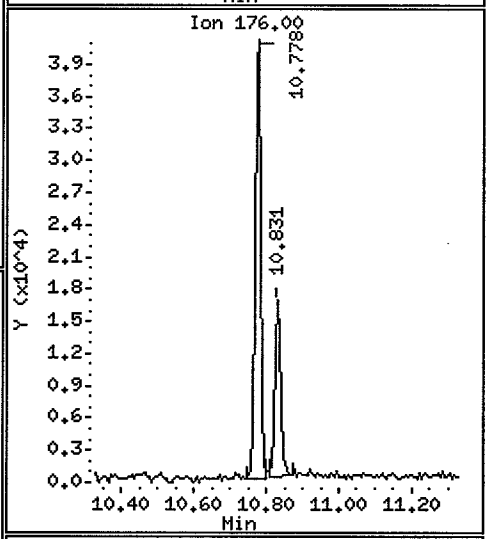


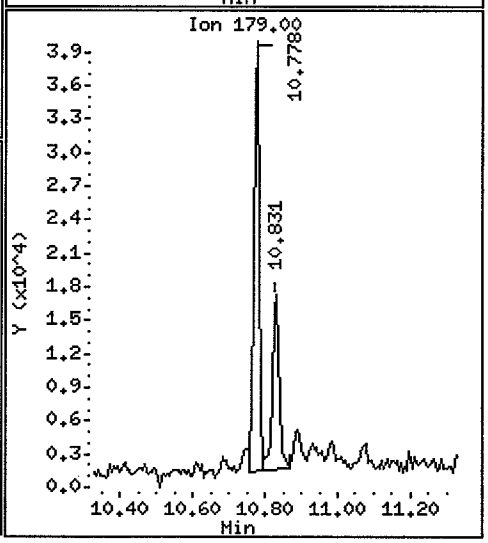












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

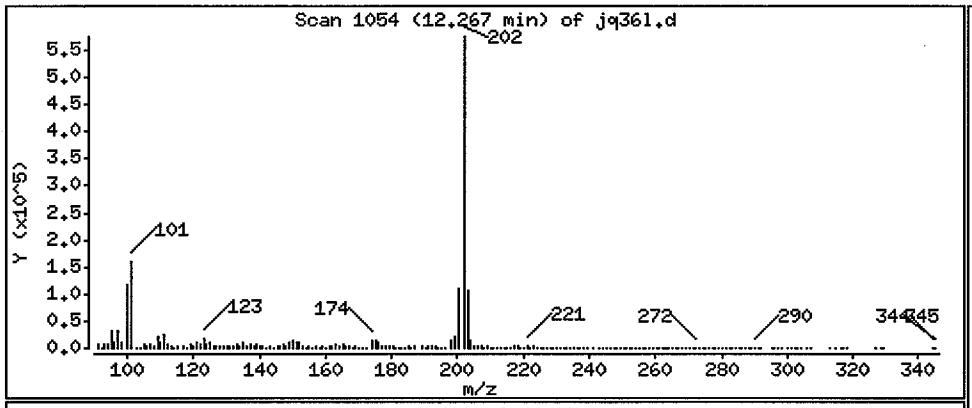
Operator: VTS

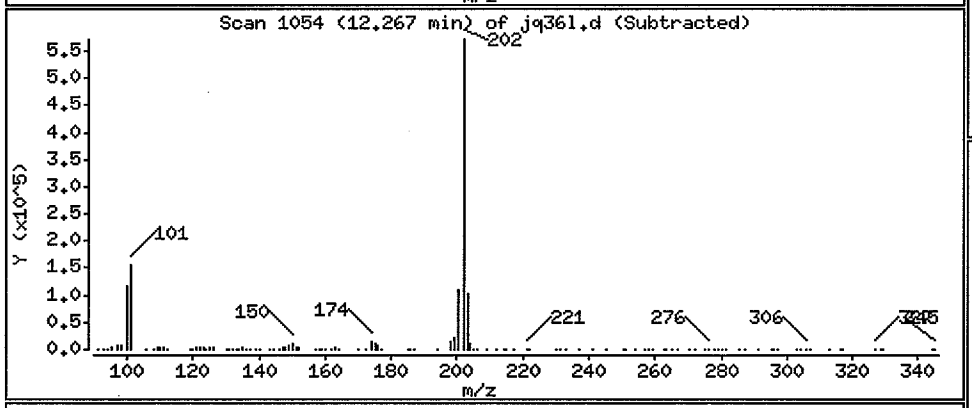
Column phase: ZB-5

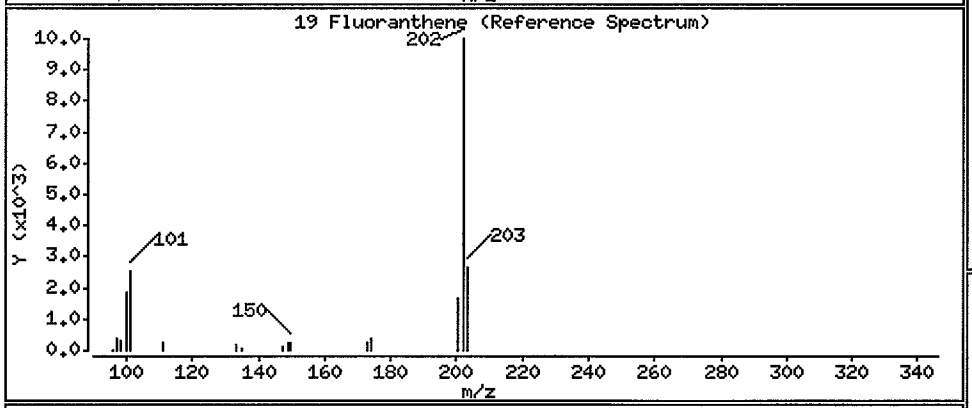
Column diameter: 0.25

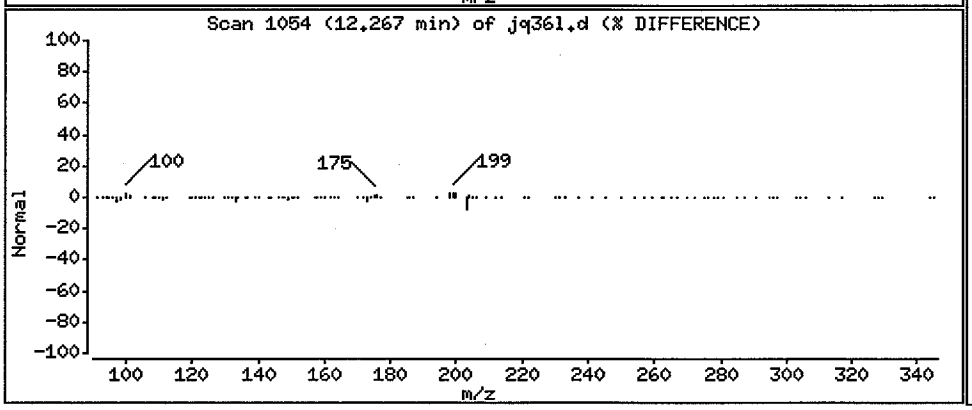
19 Fluoranthene

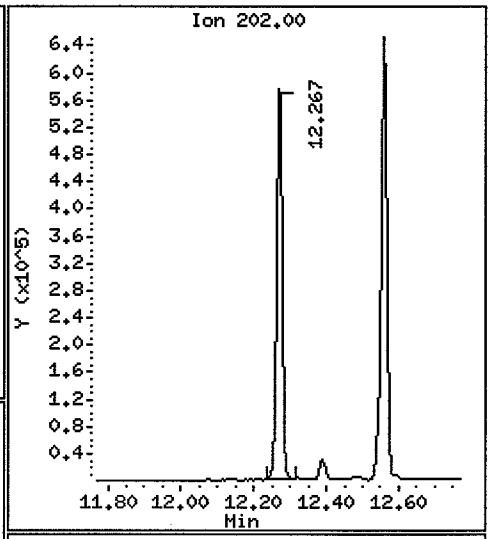
Concentration: 291.7 ug/kg

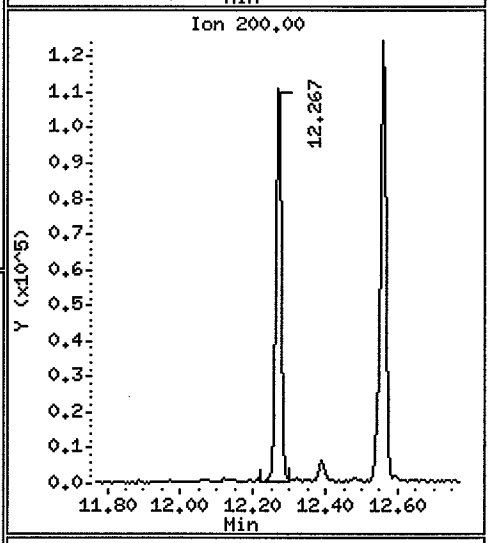


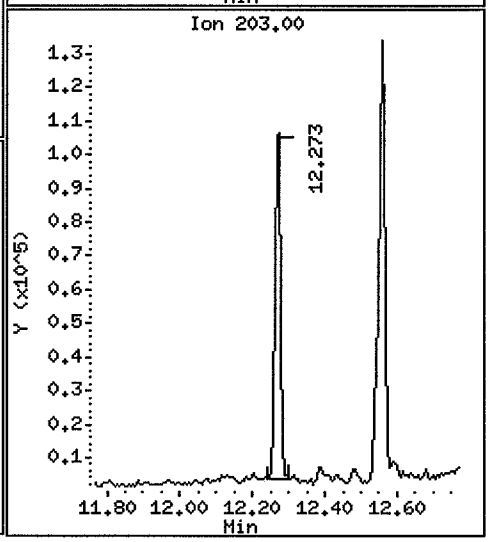












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

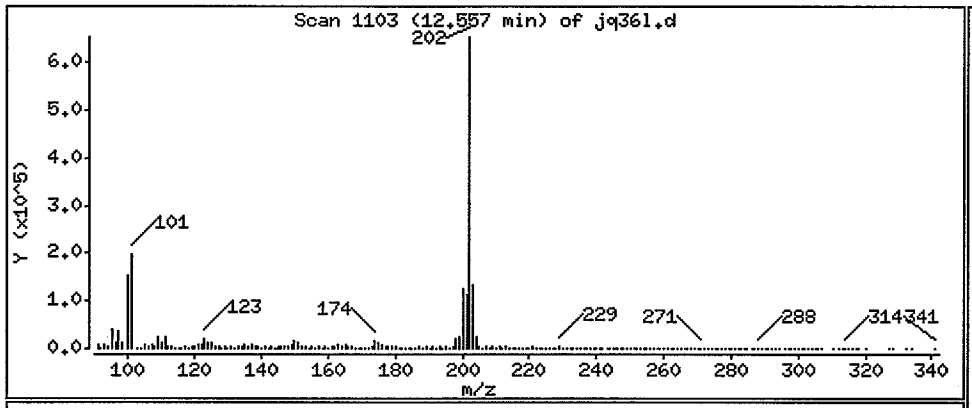
Operator: VTS

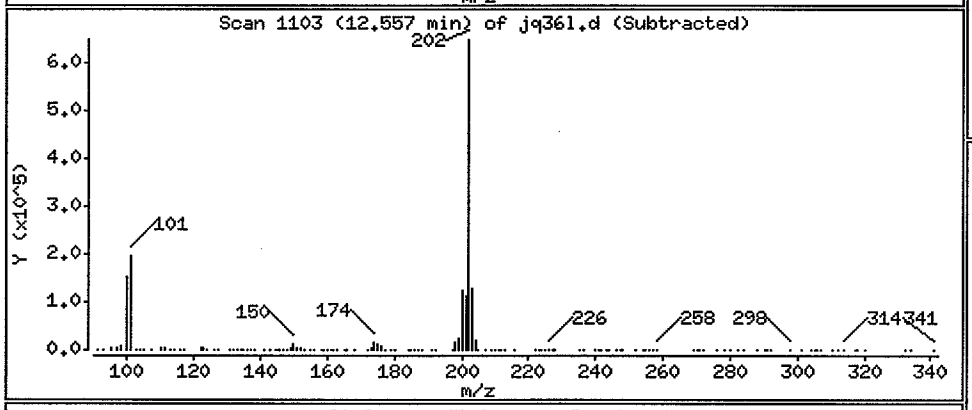
Column phase: ZB-5

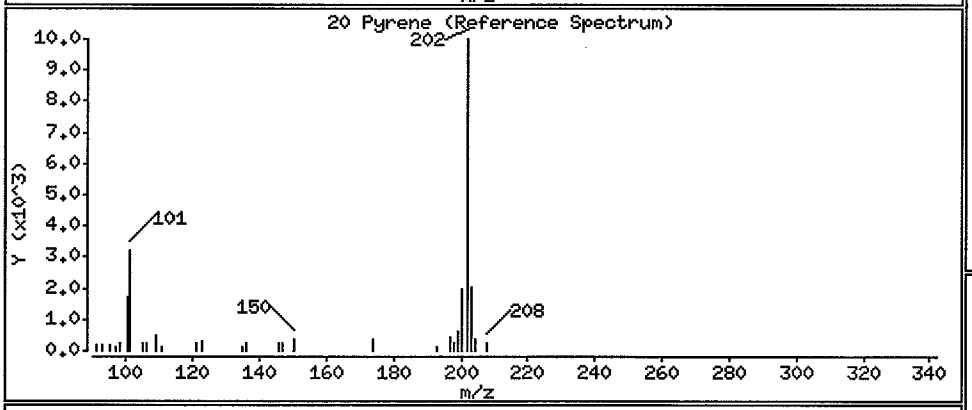
Column diameter: 0.25

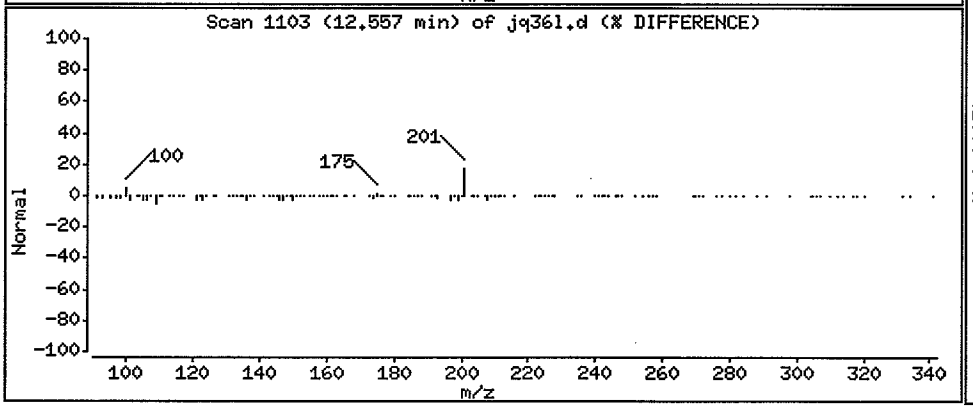
20 Pyrene

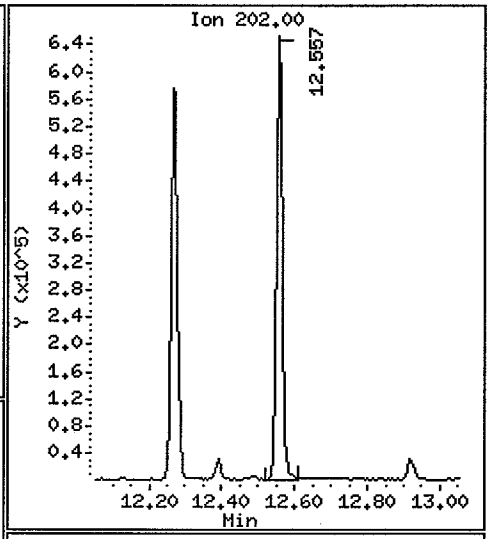
Concentration: 274.7 ug/kg

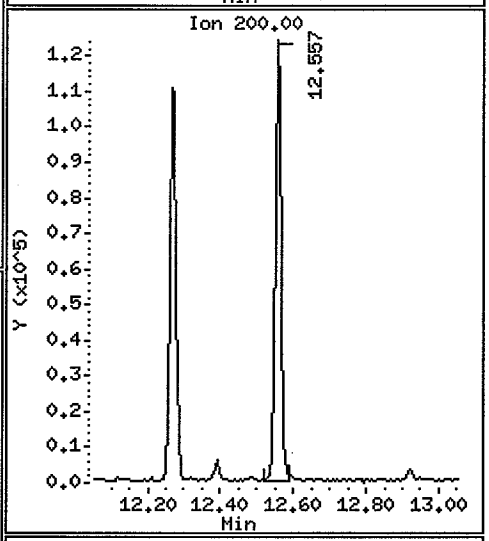


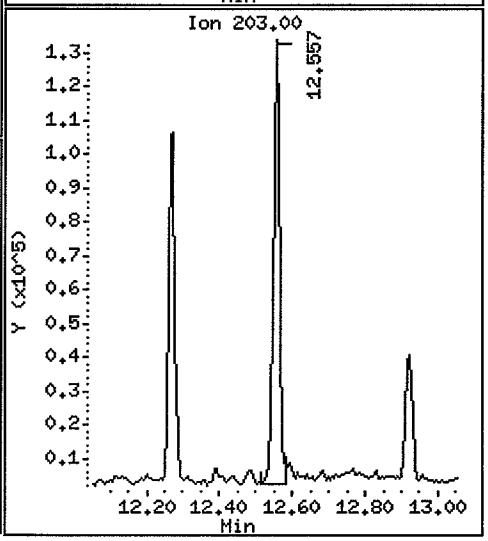












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

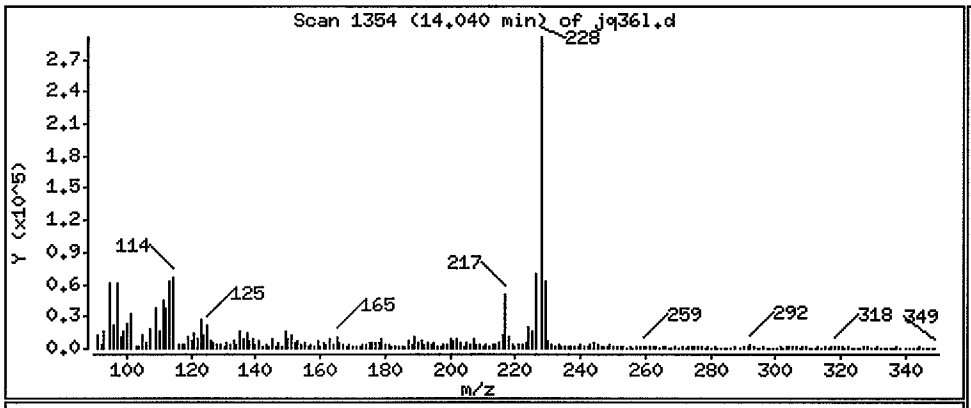
Operator: VTS

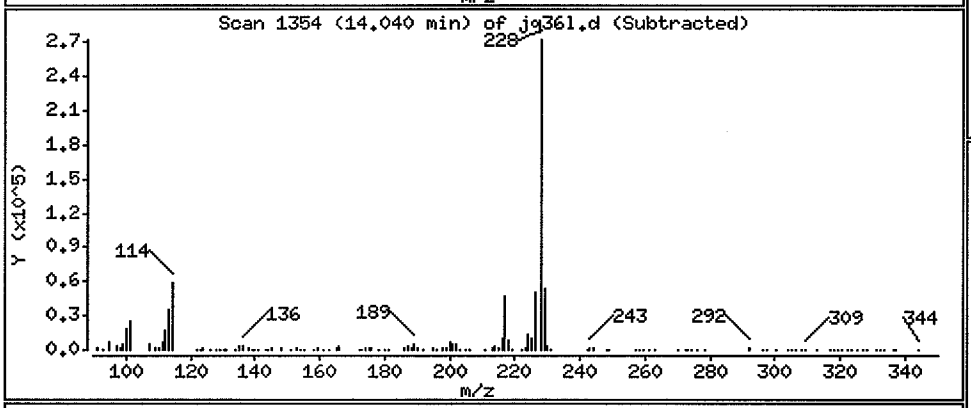
Column phase: ZB-5

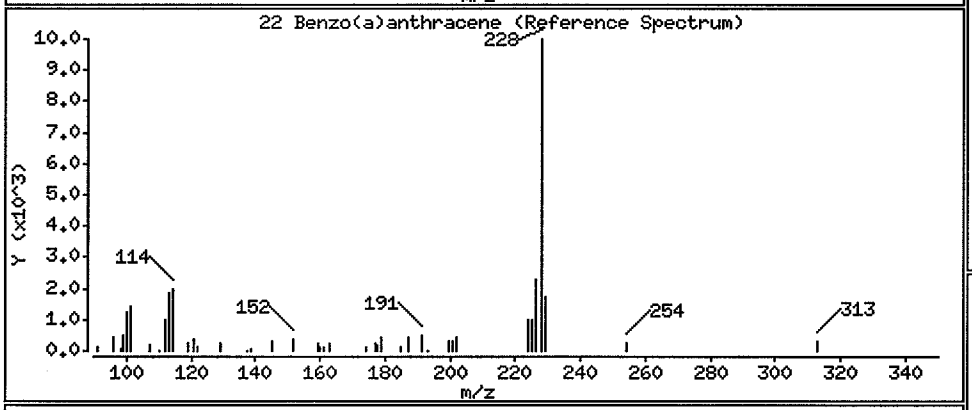
Column diameter: 0.25

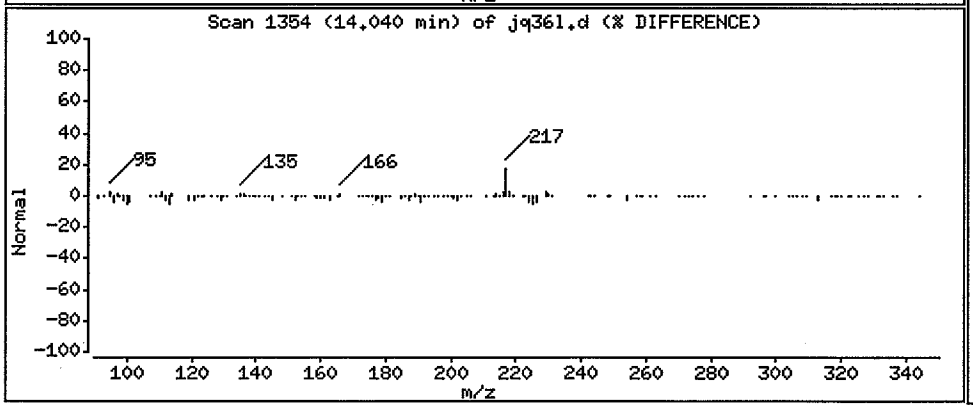
22 Benzo(a)anthracene

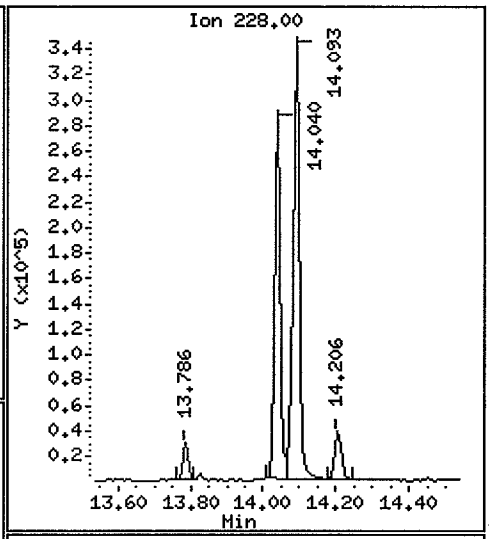
Concentration: 127.4 ug/kg

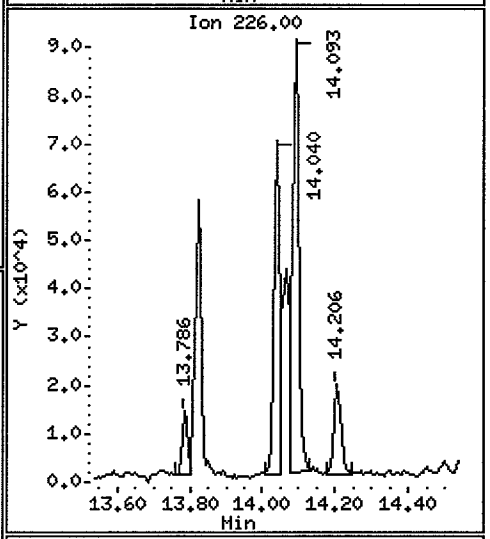


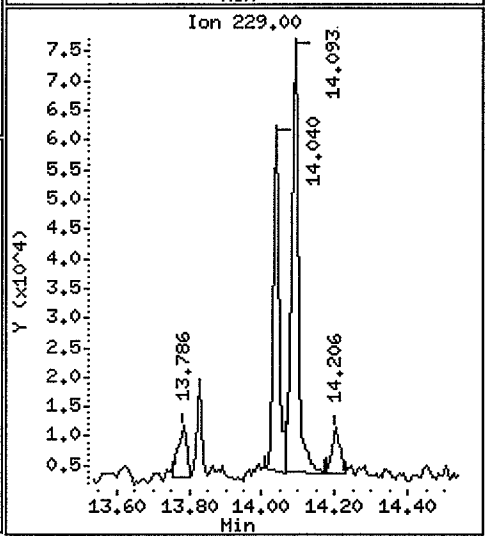












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

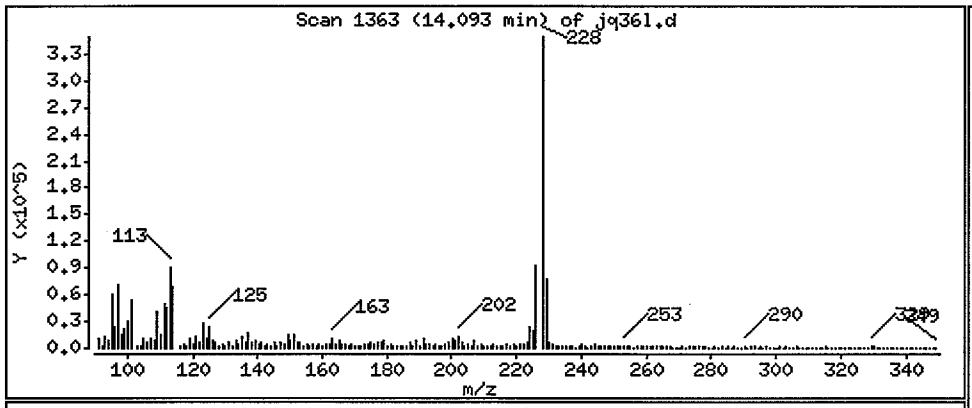
Operator: VTS

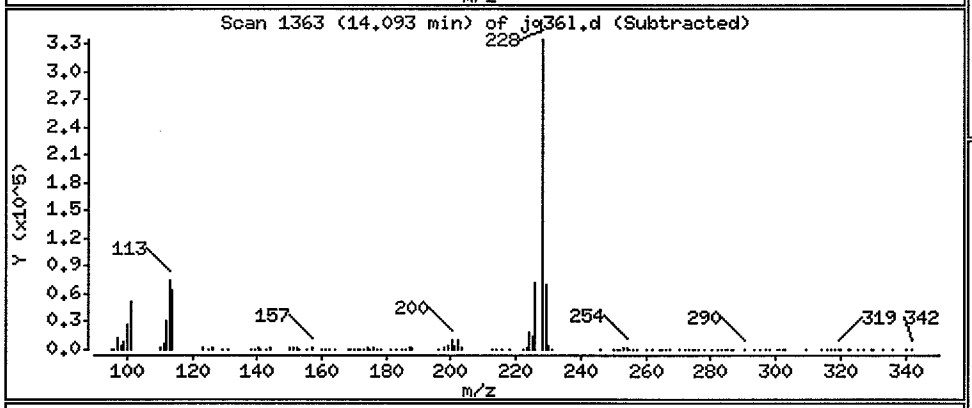
Column phase: ZB-5

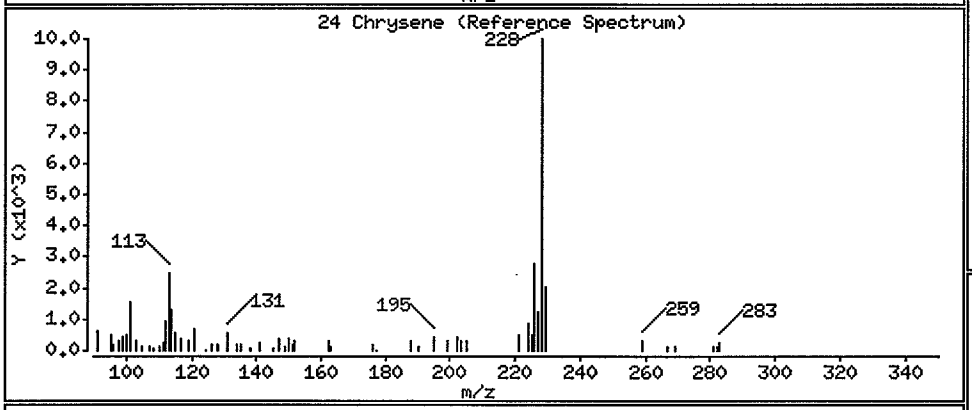
Column diameter: 0.25

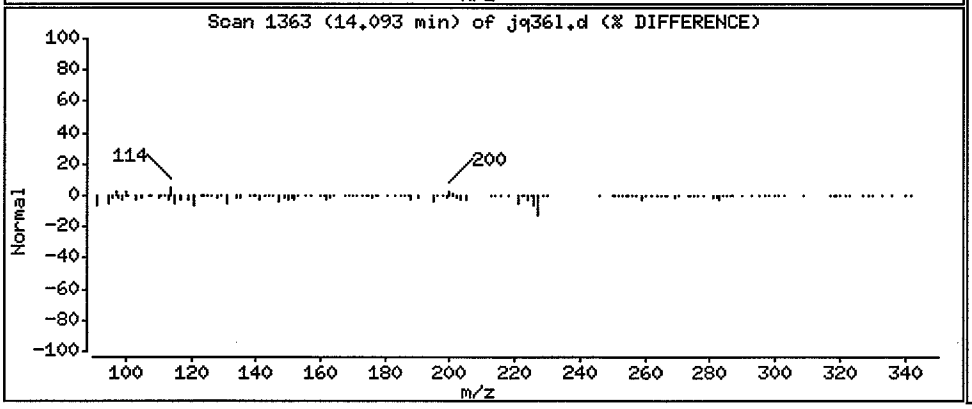
24 Chrysene

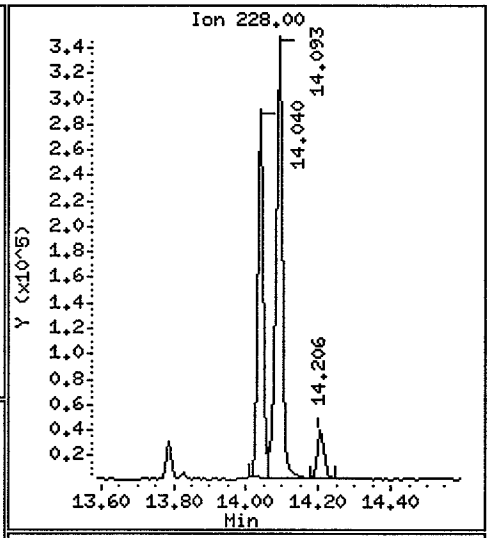
Concentration: 189.3 ug/kg

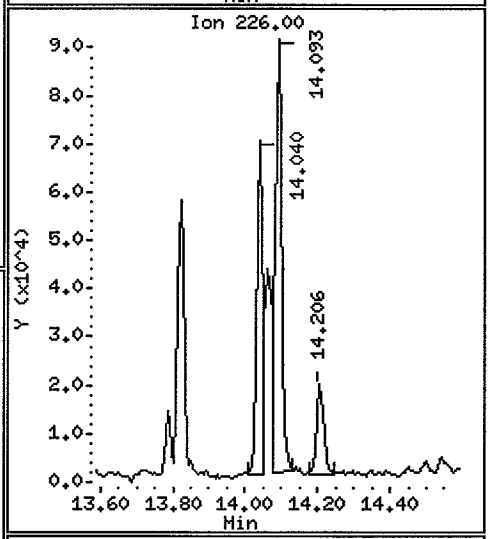


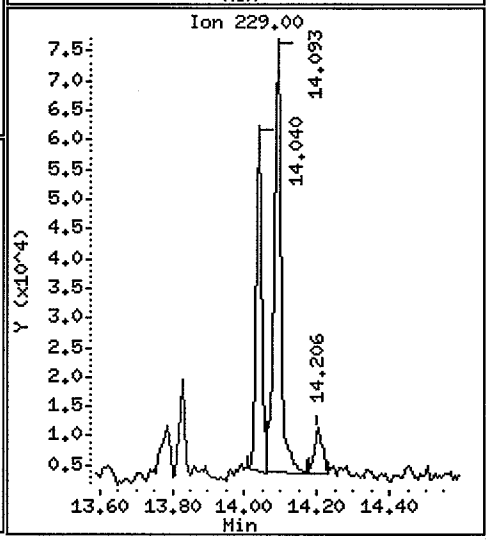












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

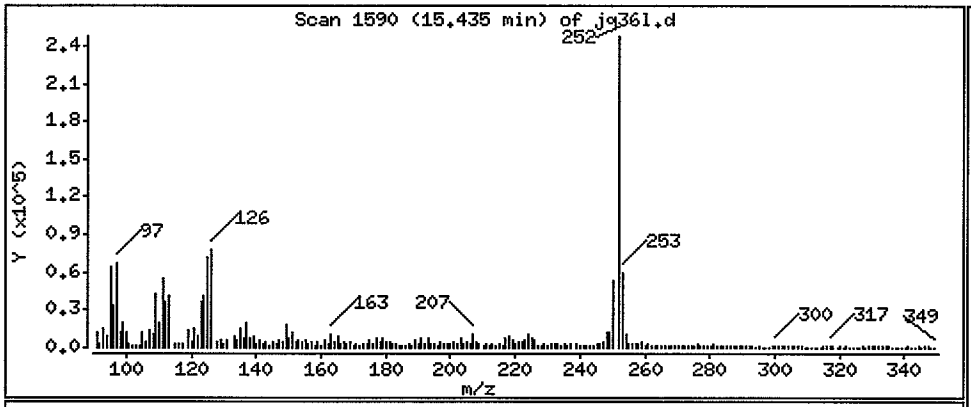
Operator: VTS

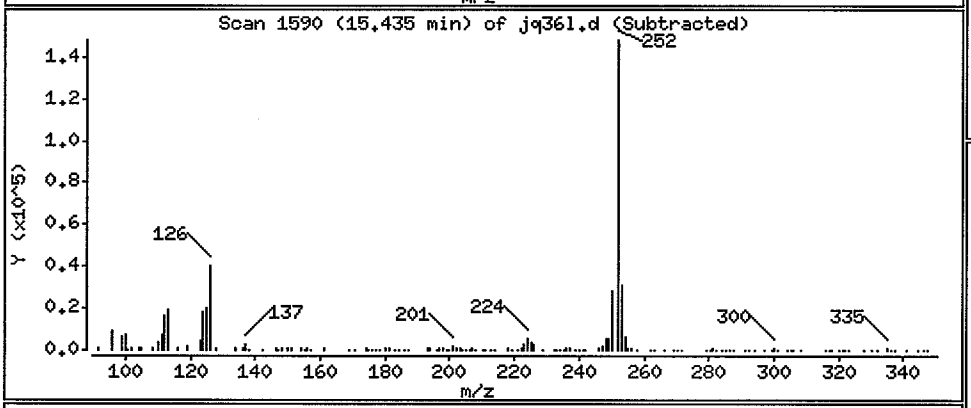
Column phase: ZB-5

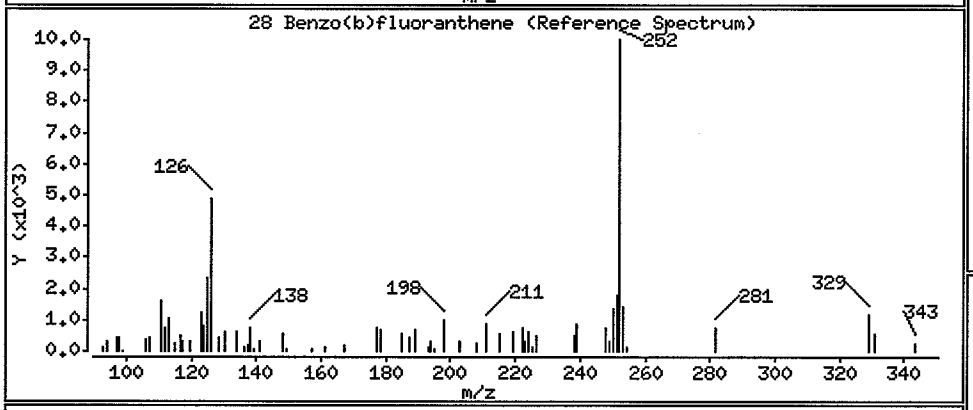
Column diameter: 0.25

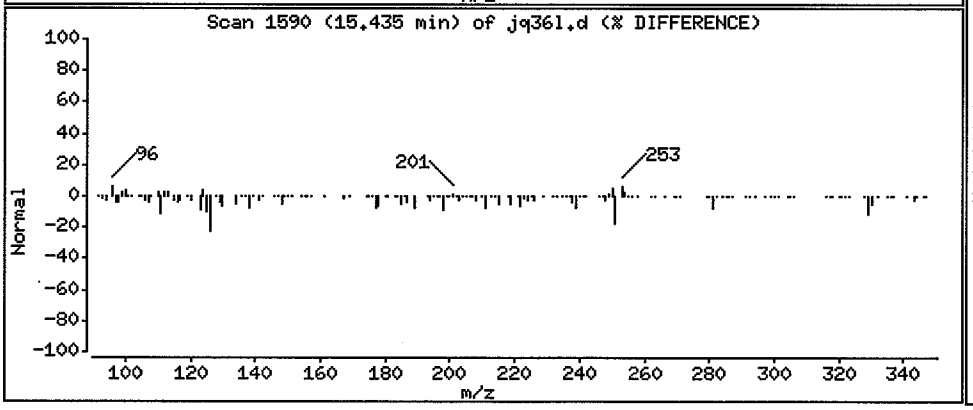
28 Benzo(b)fluoranthene

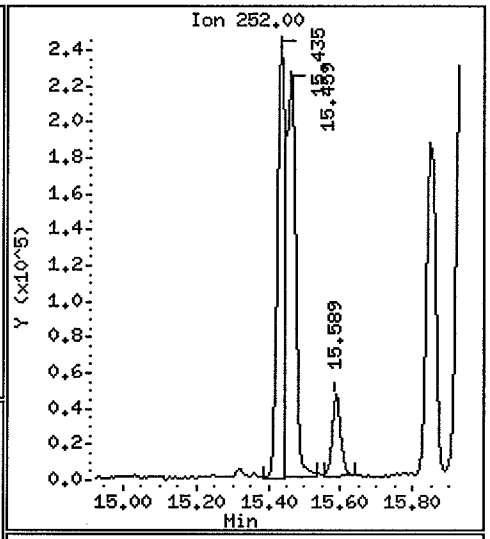
Concentration: 150.5 ug/kg

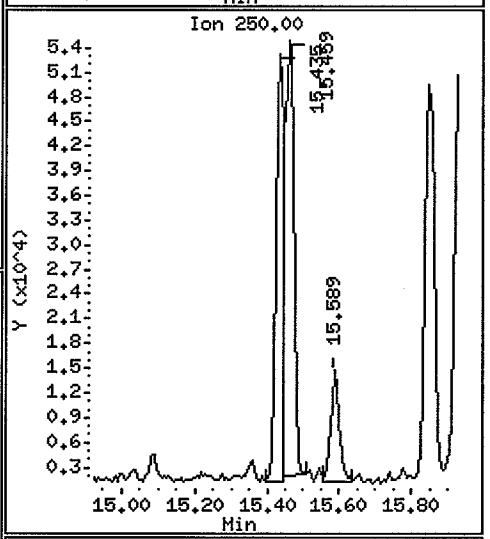


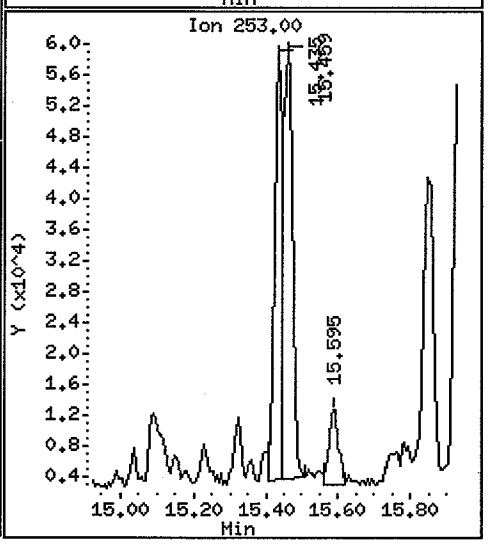












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

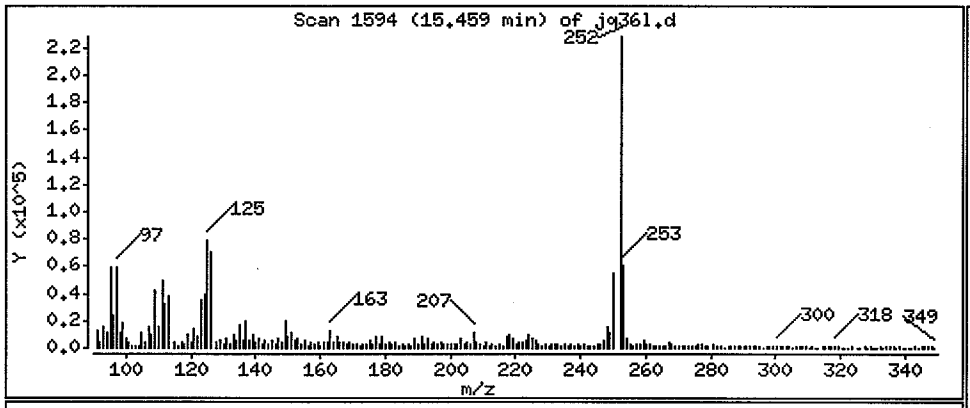
Operator: VTS

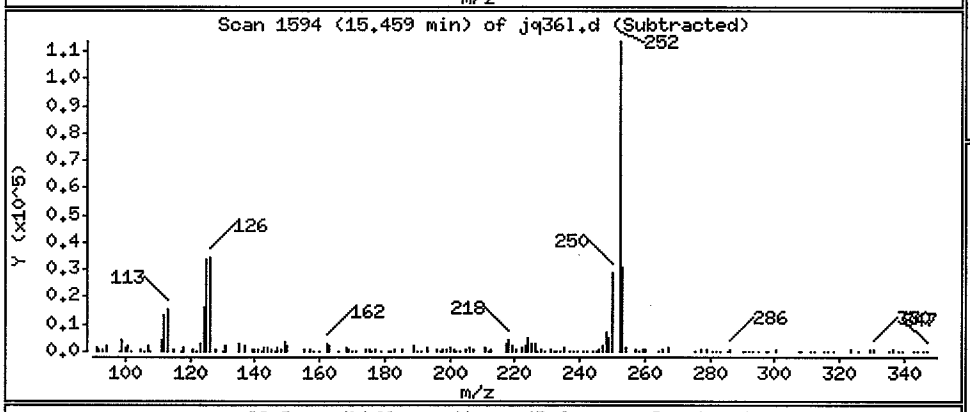
Column phase: ZB-5

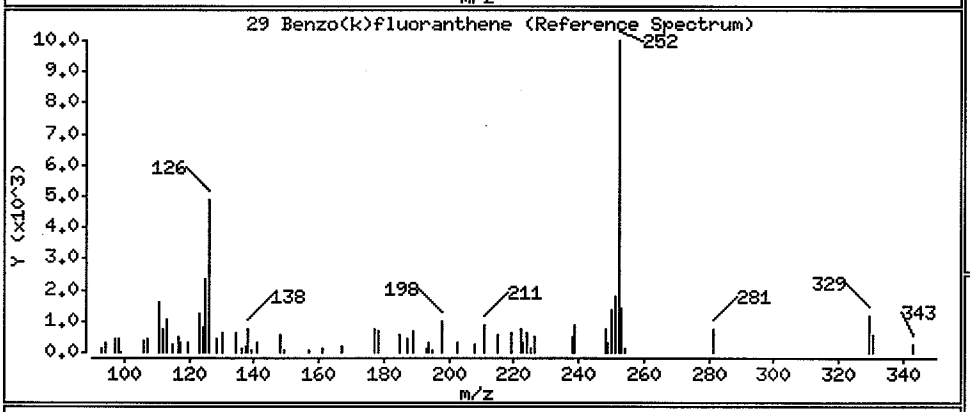
Column diameter: 0.25

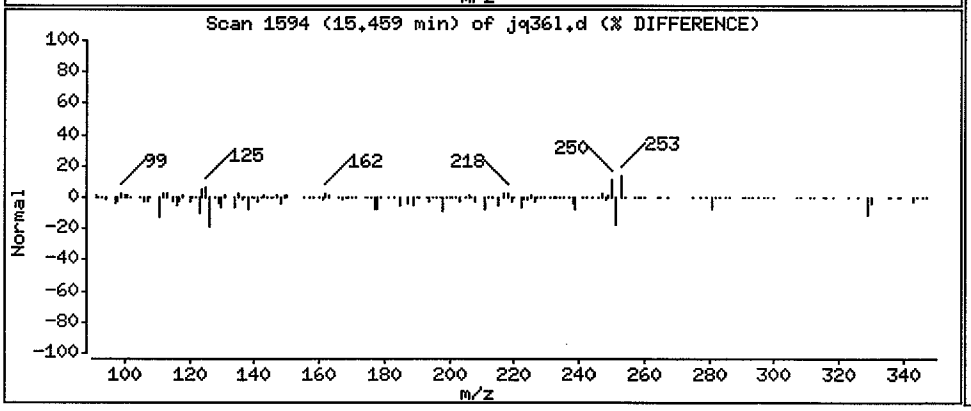
29 Benzo(k)fluoranthene

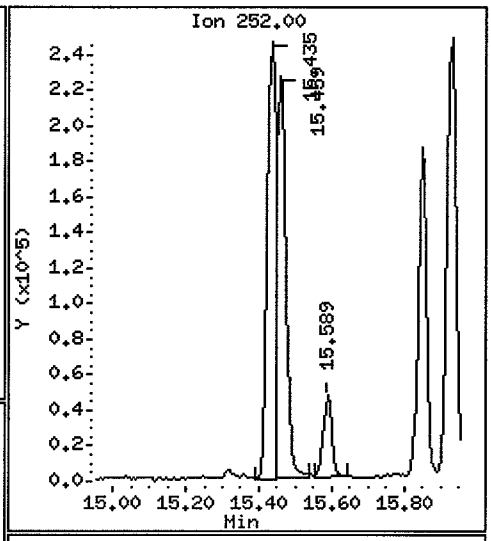
Concentration: 154.7 ug/kg

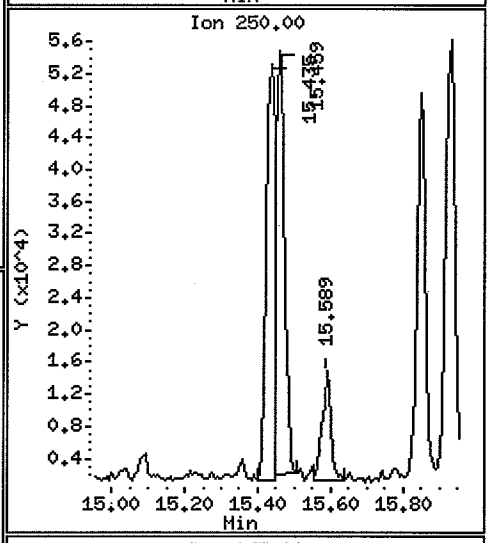


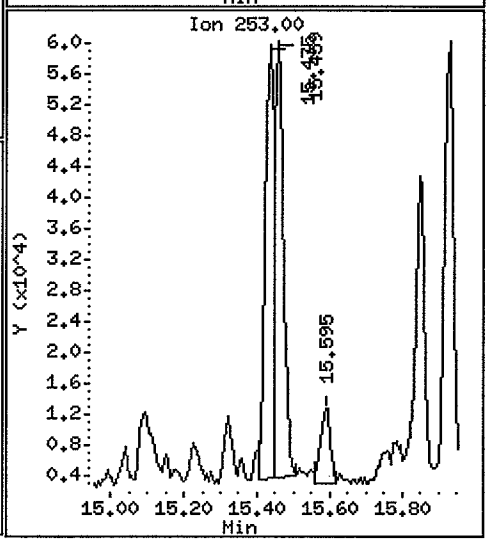












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

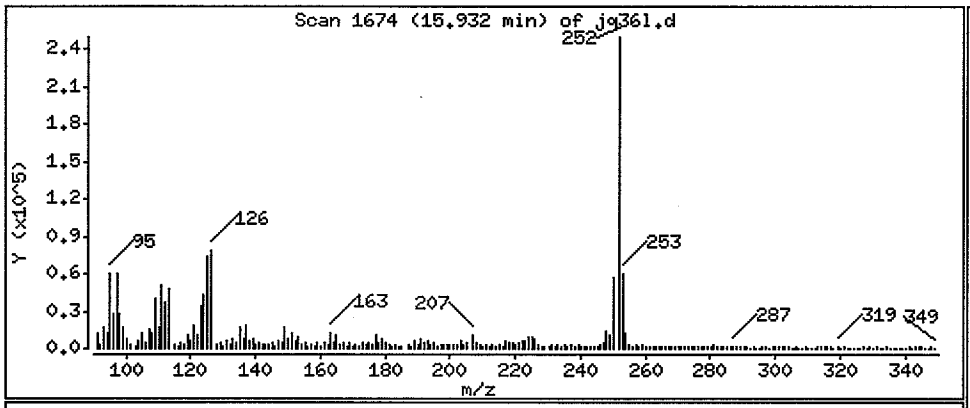
Operator: VTS

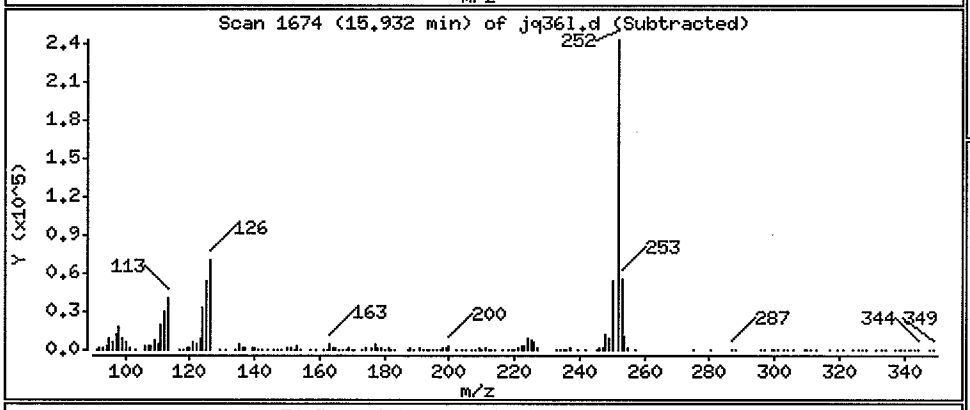
Column phase: ZB-5

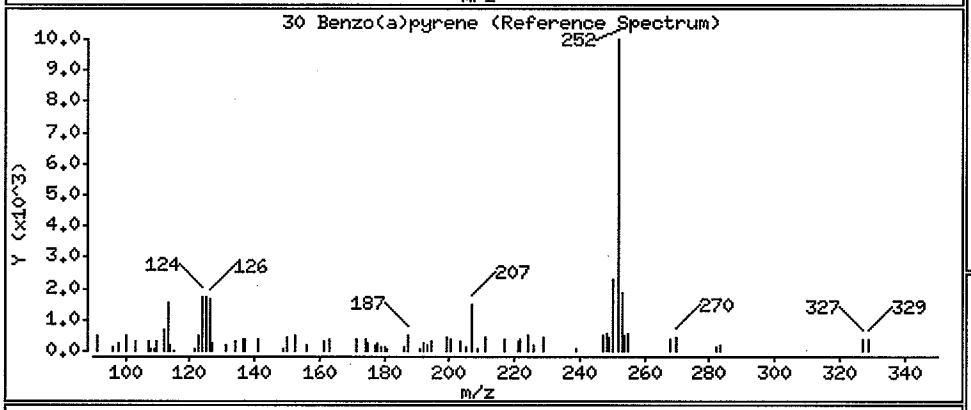
Column diameter: 0.25

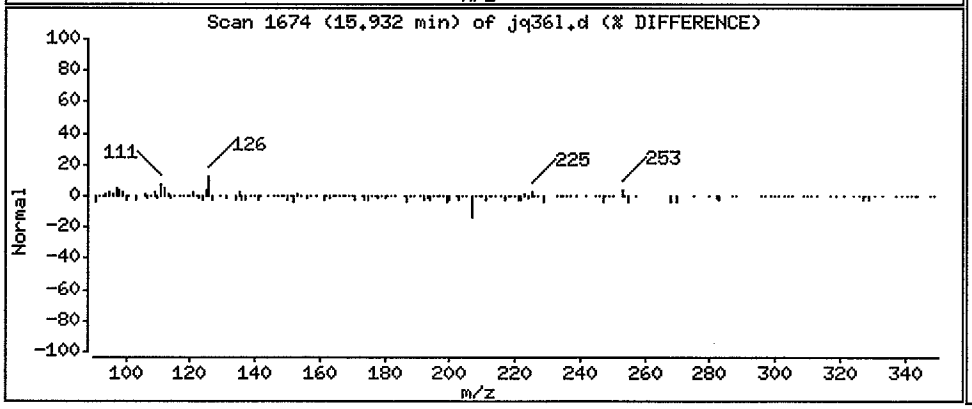
30 Benzo(a)pyrene

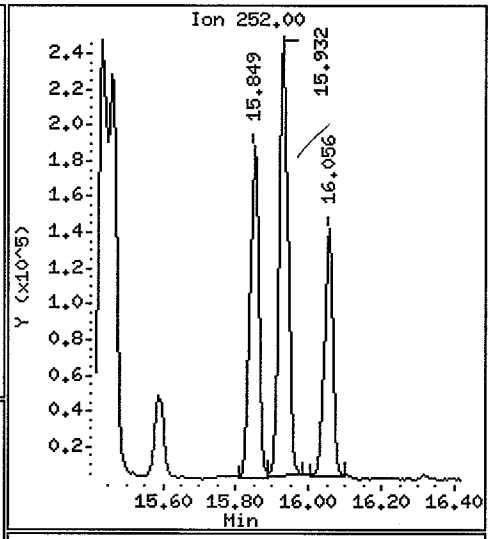
Concentration: 161.2 ug/kg

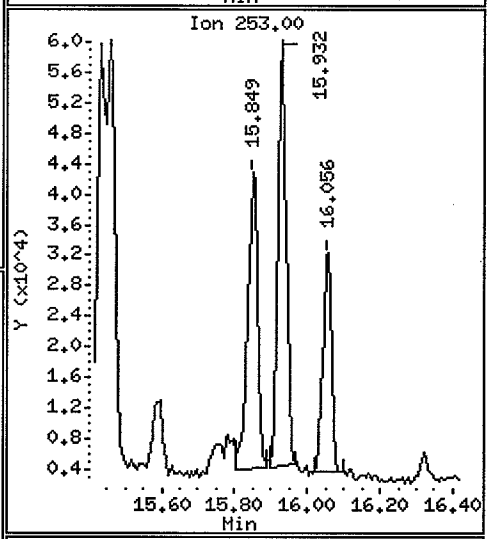


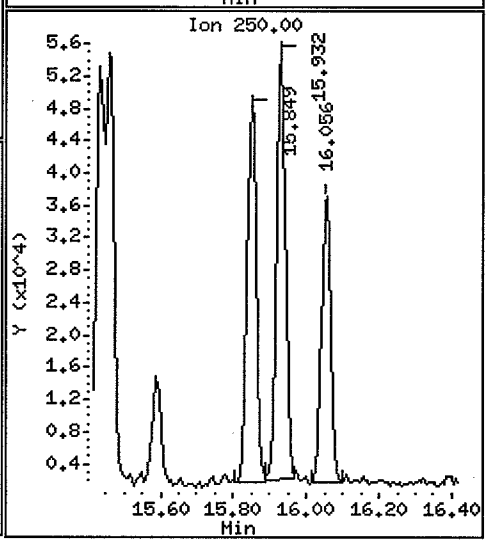












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

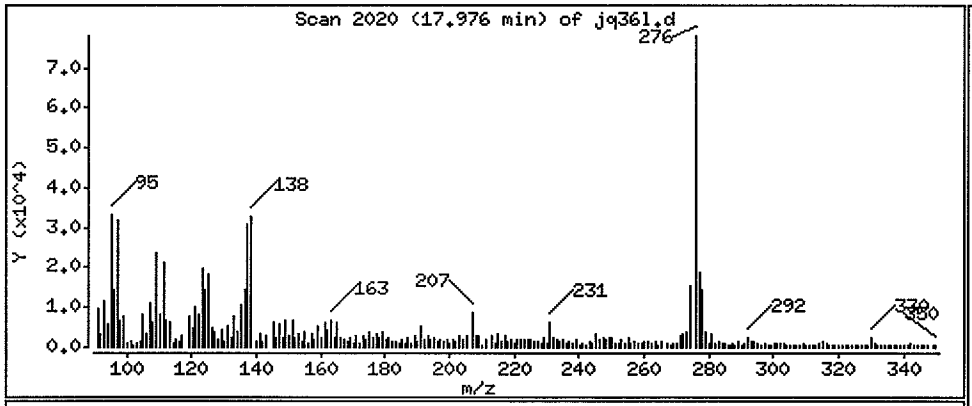
Operator: VTS

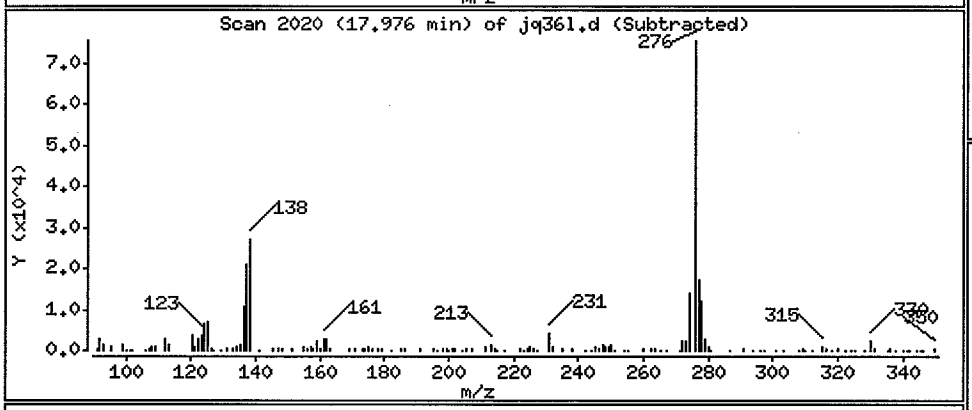
Column phase: ZB-5

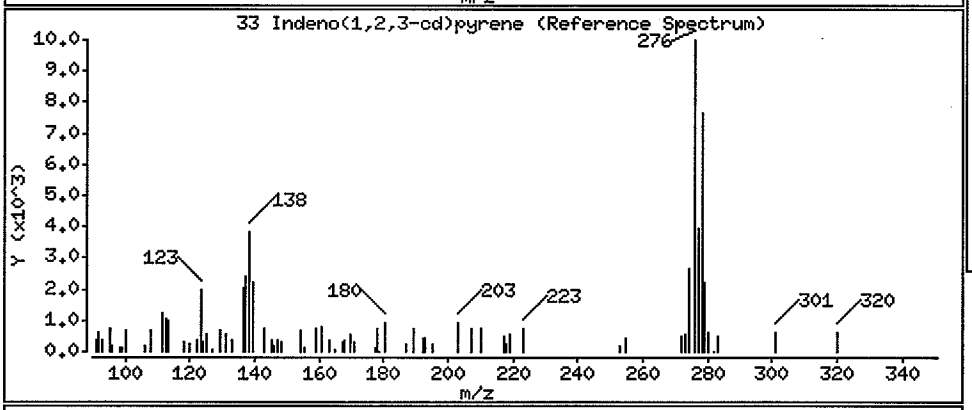
Column diameter: 0.25

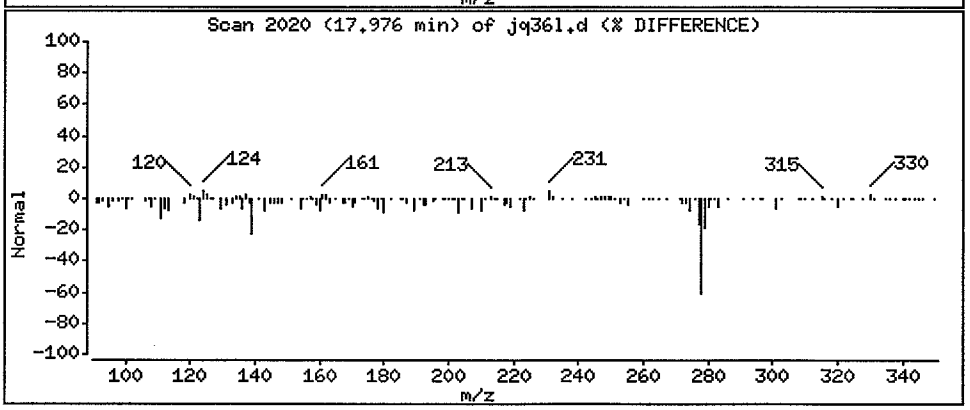
33 Indeno(1,2,3-cd)pyrene

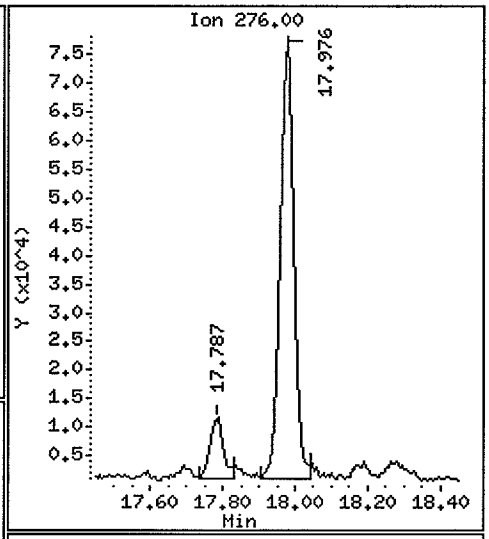
Concentration: 69.14 ug/kg

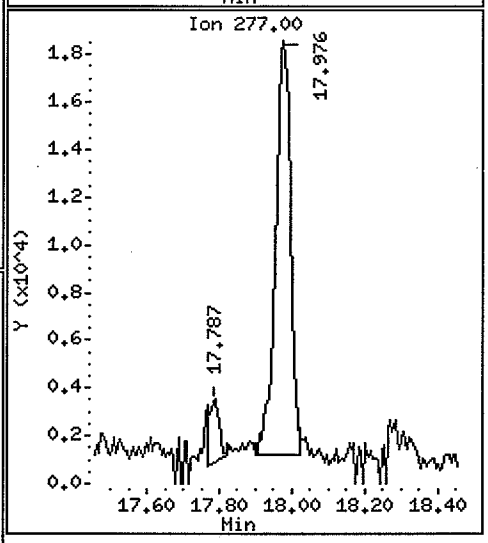












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

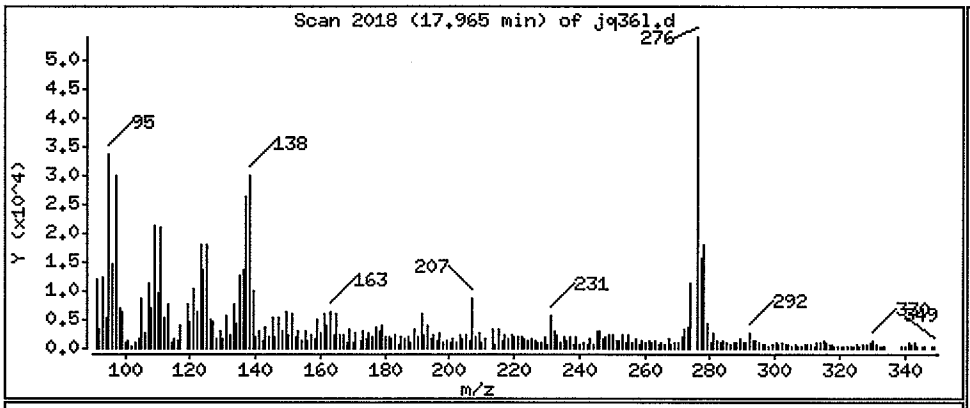
Operator: VTS

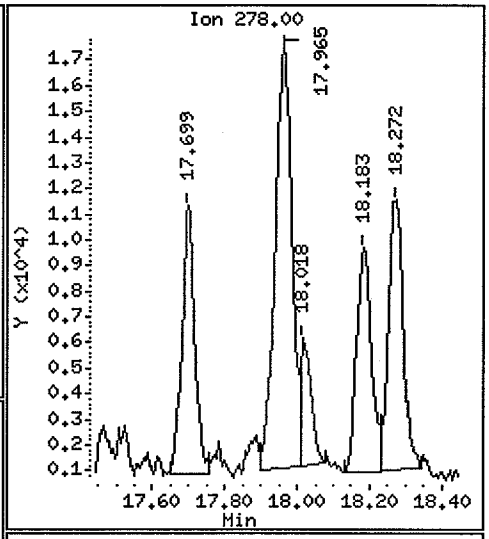
Column phase: ZB-5

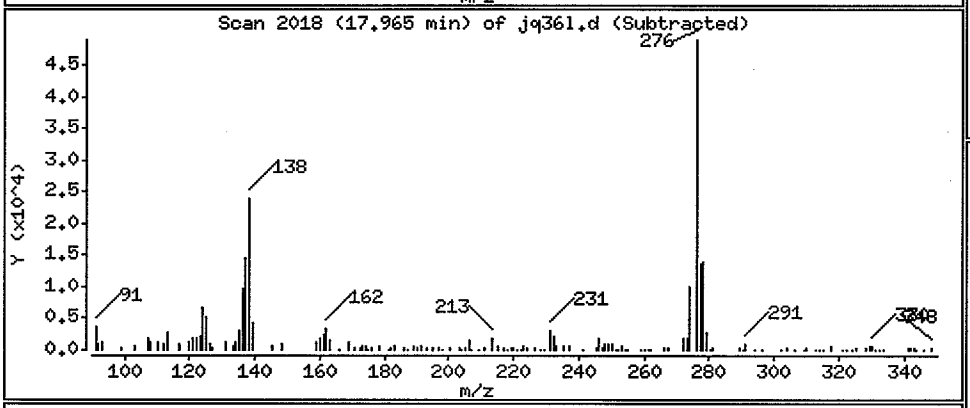
Column diameter: 0.25

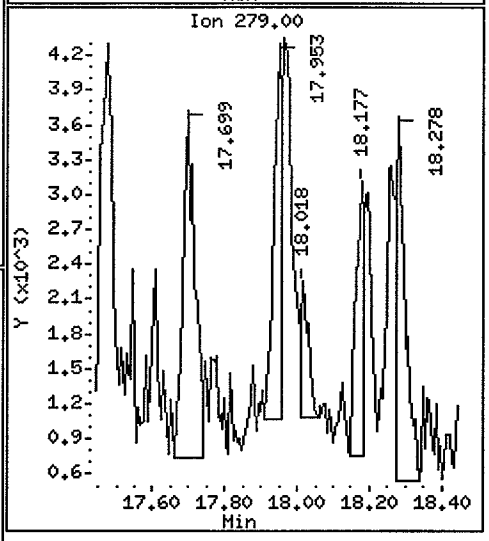
34 Dibenz(a,h)anthracene

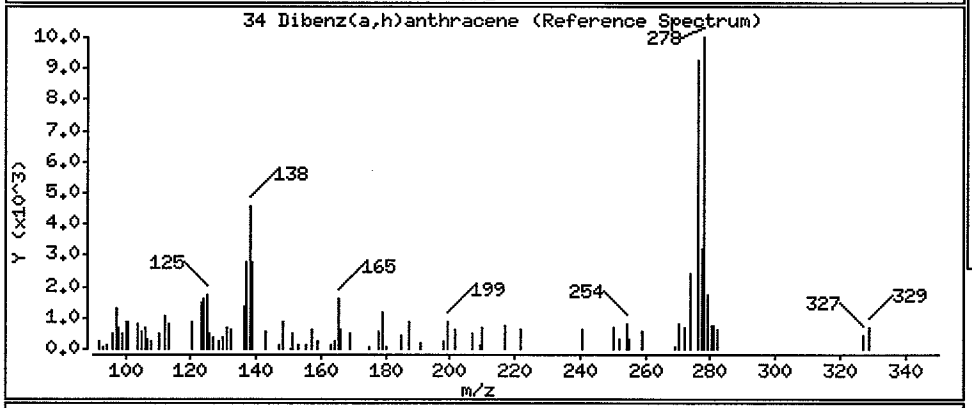
Concentration: 22.79 ug/kg

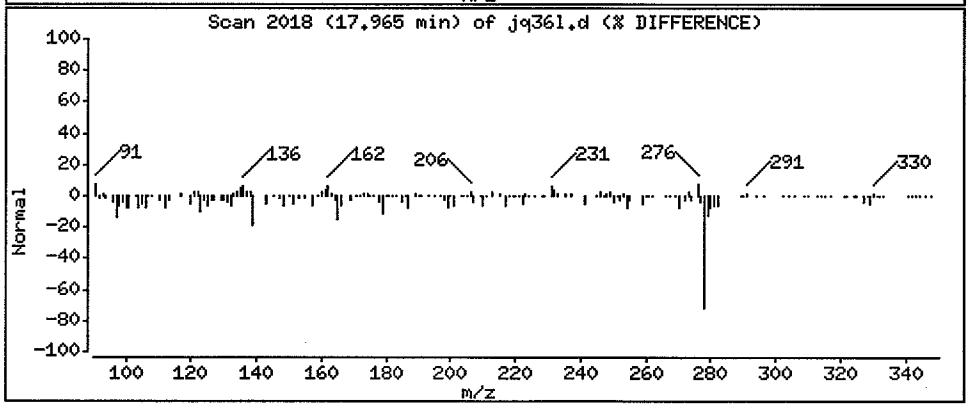












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

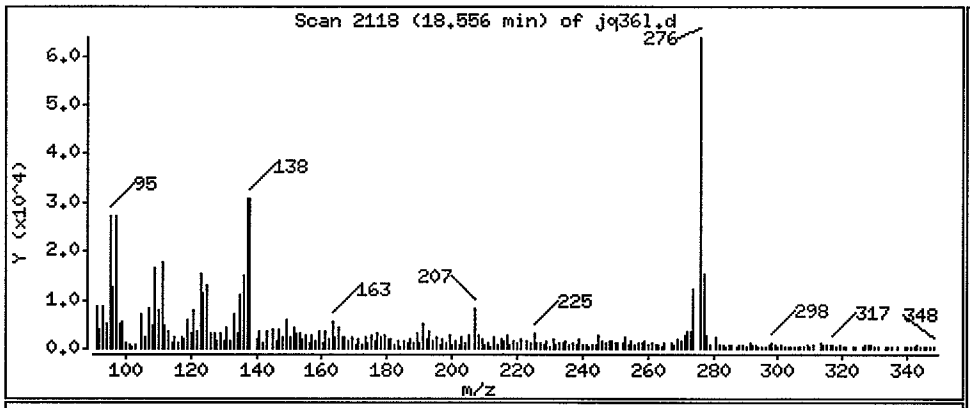
Operator: VTS

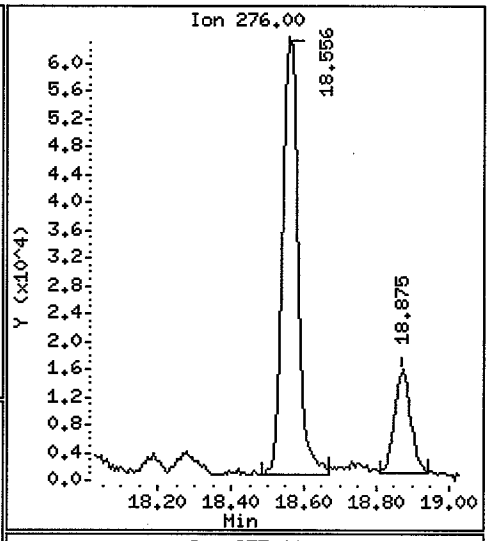
Column phase: ZB-5

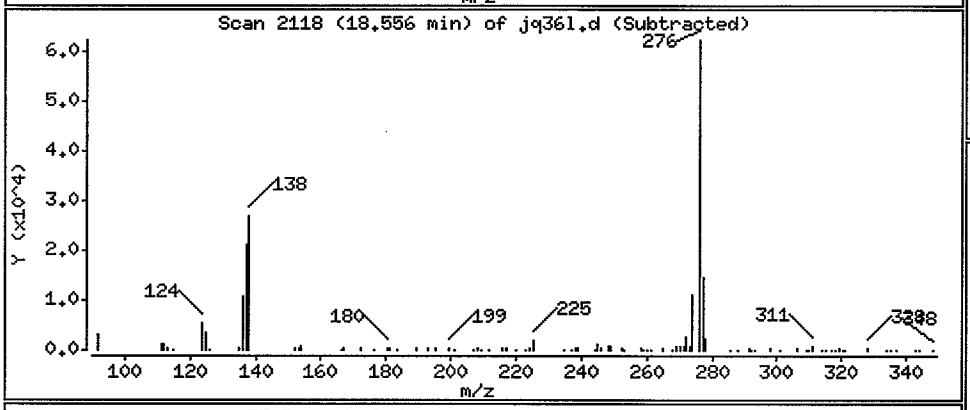
Column diameter: 0.25

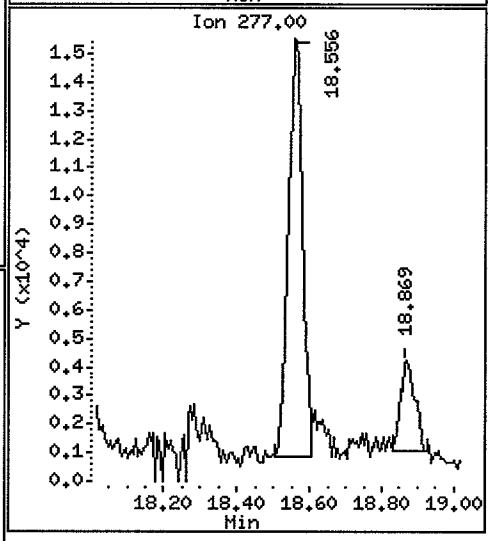
35 Benzo(g,h,i)perylene

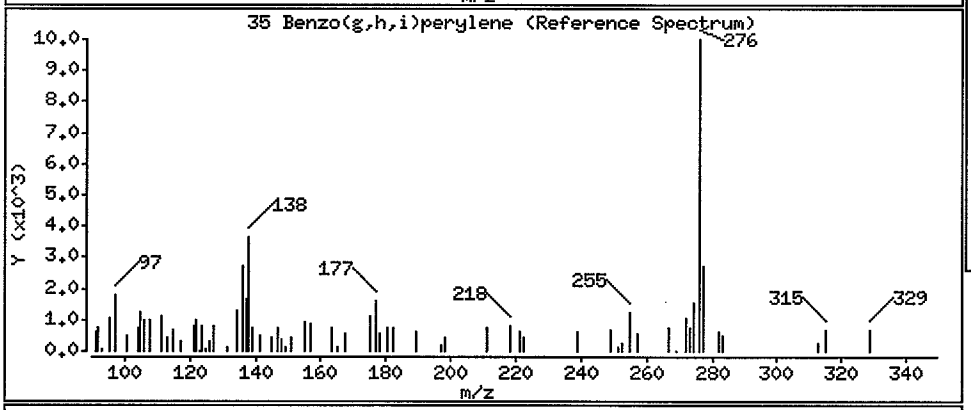
Concentration: 79.03 ug/kg

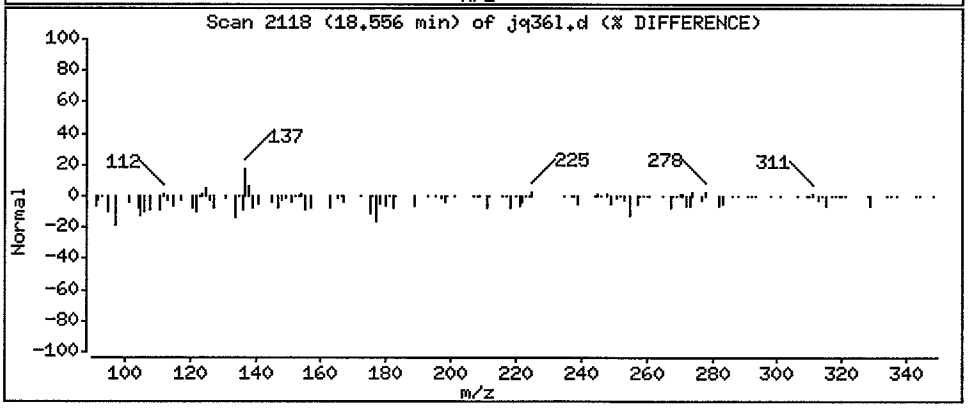












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

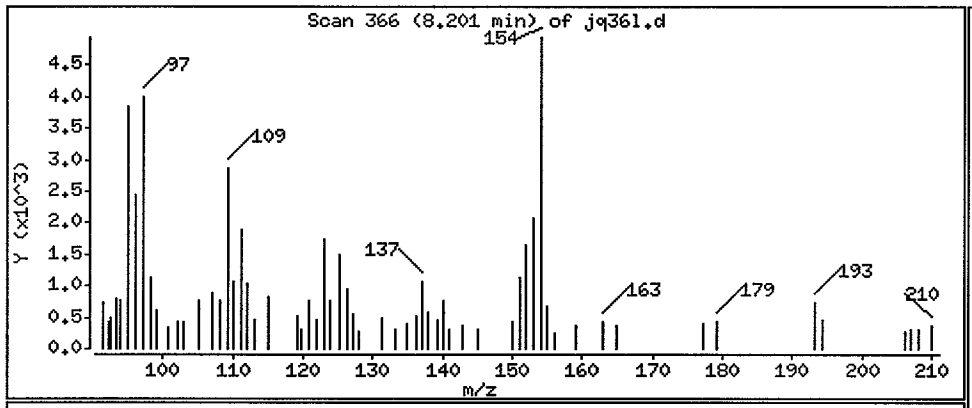
Operator: VTS

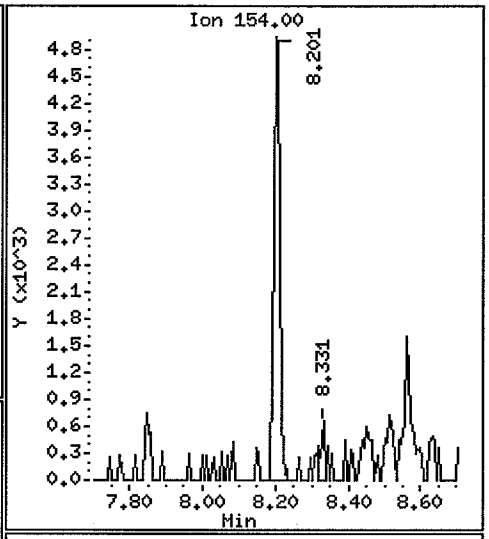
Column phase: ZB-5

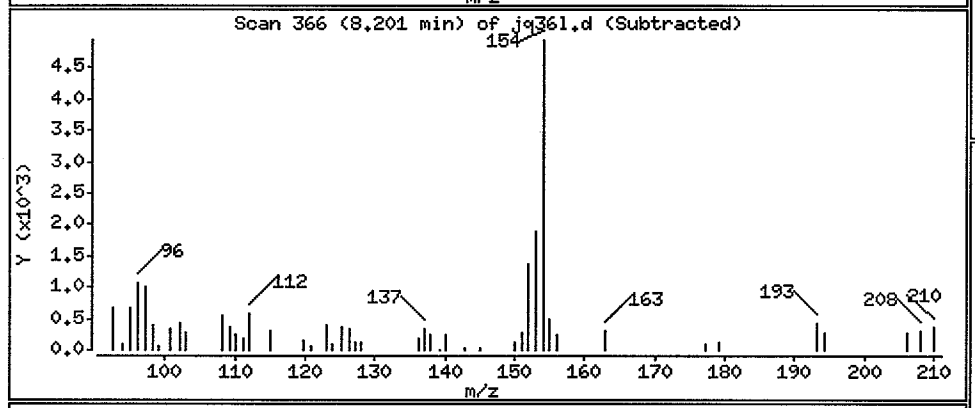
Column diameter: 0.25

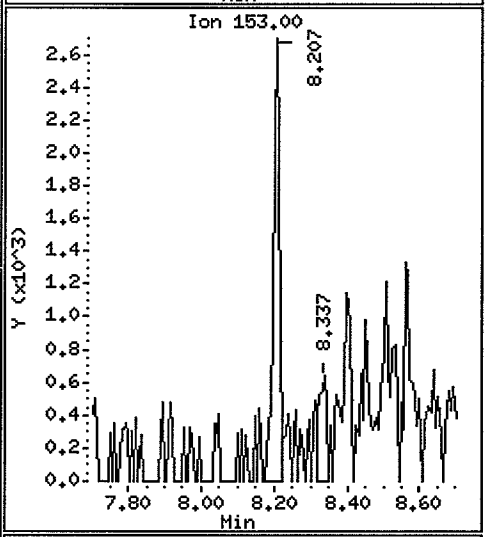
48 Biphenyl

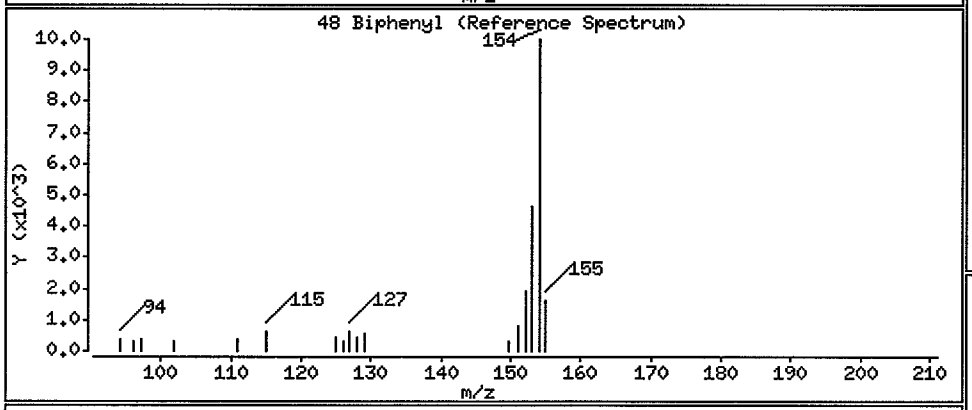
Concentration: 3.470 ug/kg

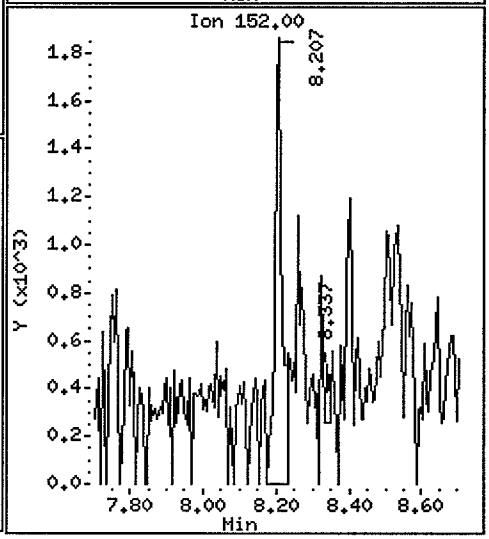


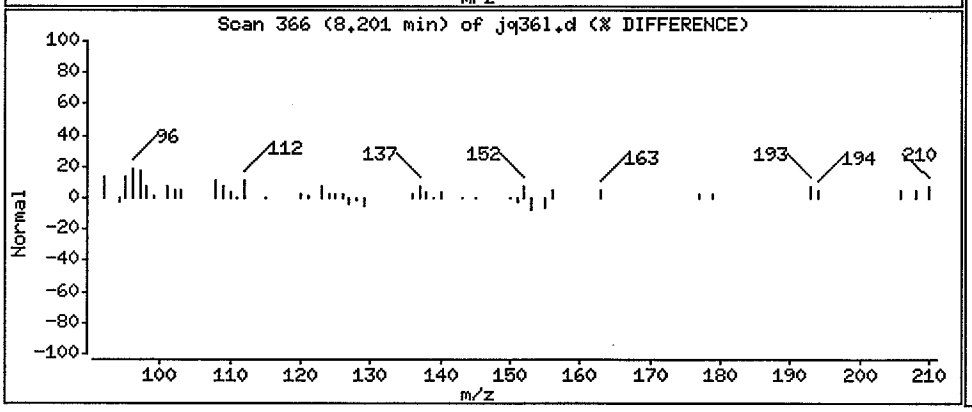












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

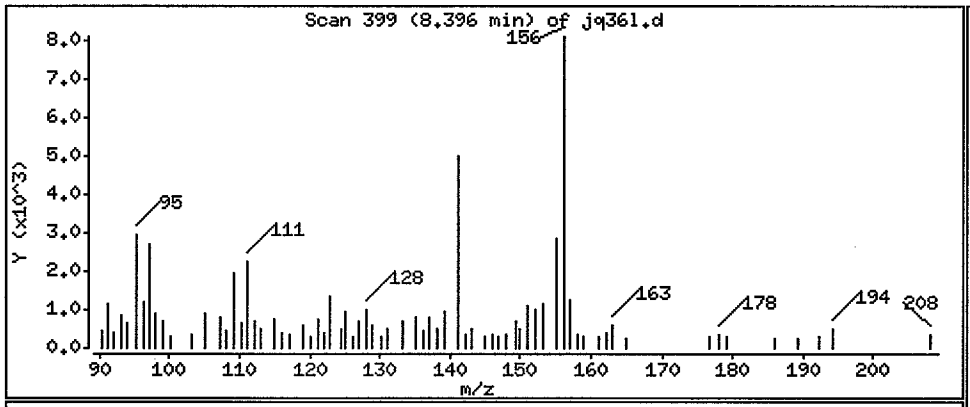
Operator: VTS

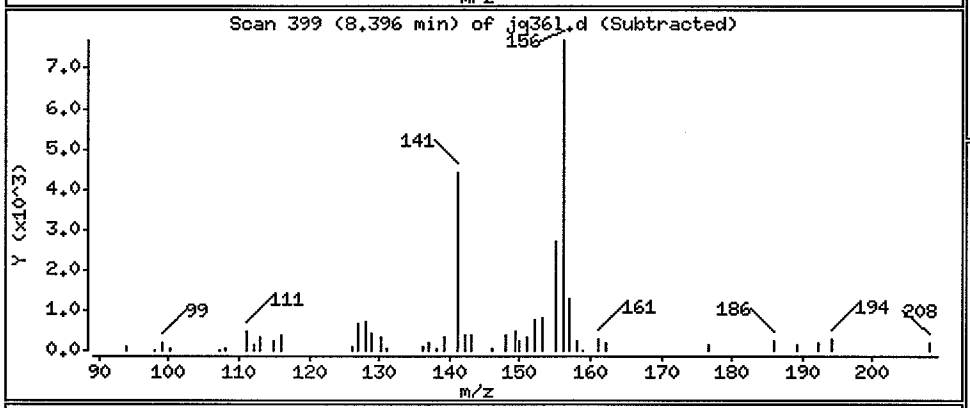
Column phase: ZB-5

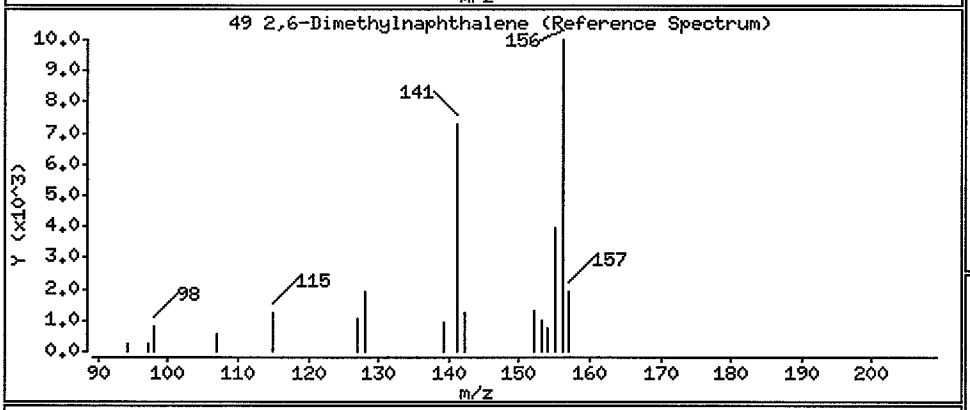
Column diameter: 0.25

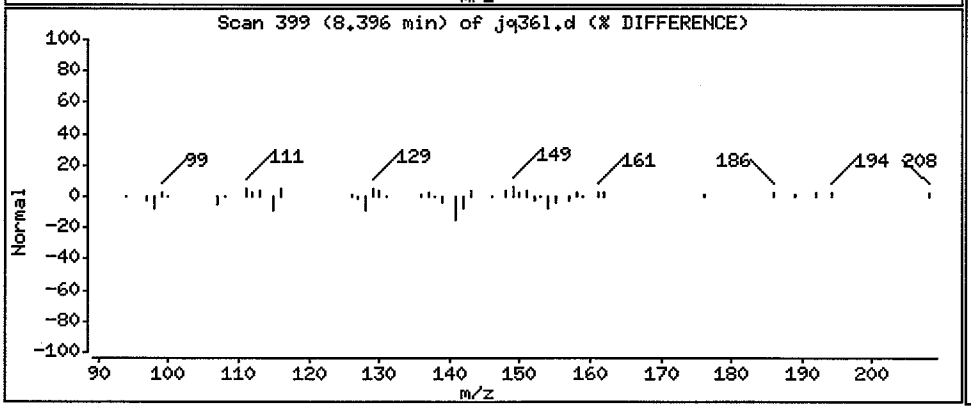
49 2,6-Dimethylnaphthalene

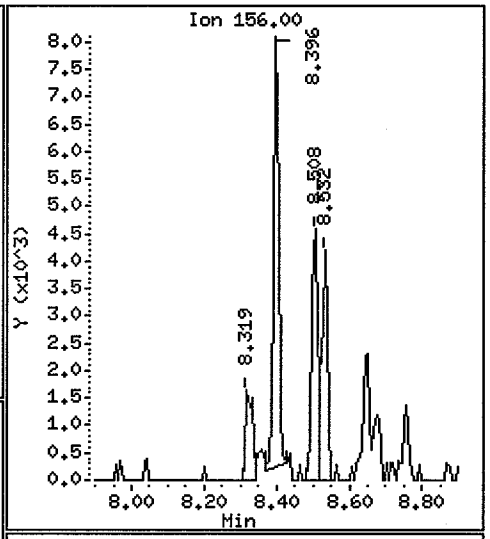
Concentration: 6.266 ug/kg

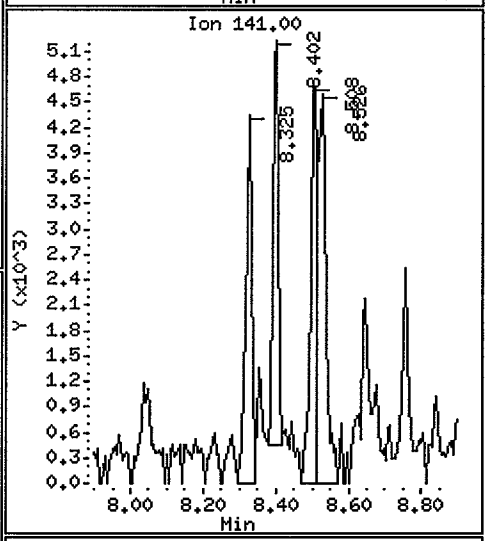


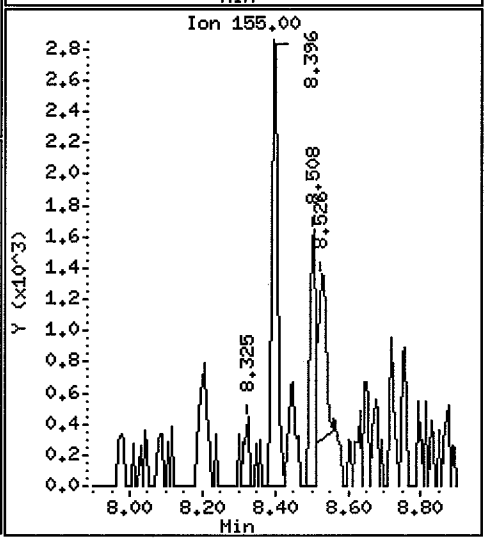












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

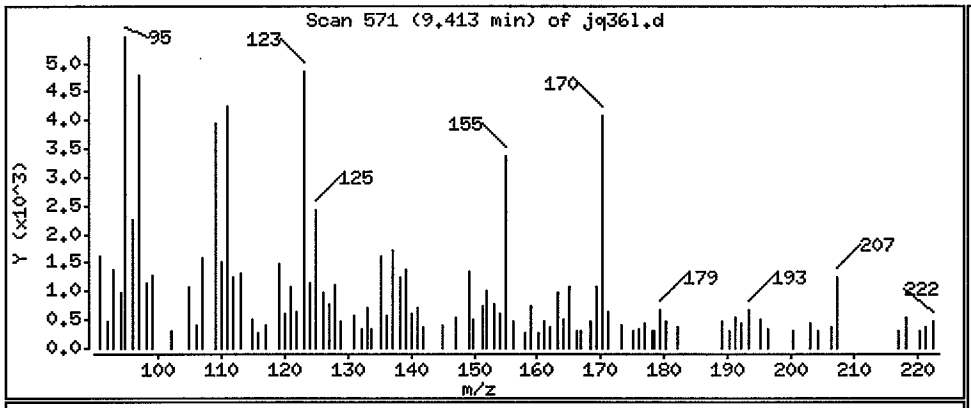
Operator: VTS

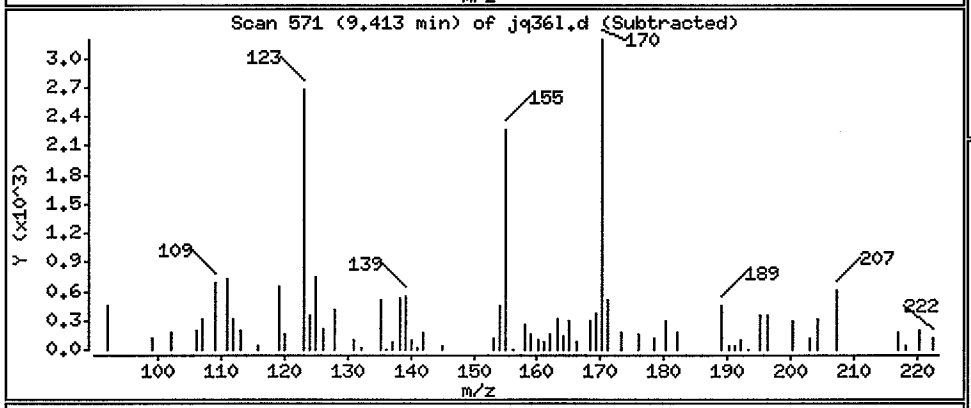
Column phase: ZB-5

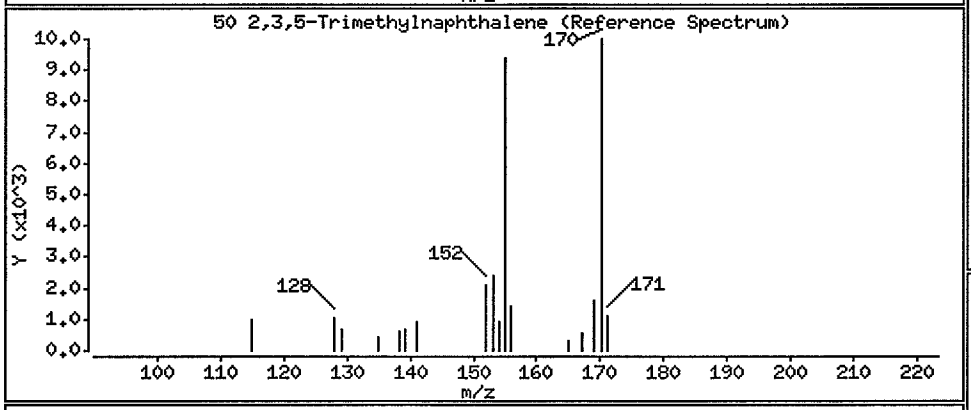
Column diameter: 0.25

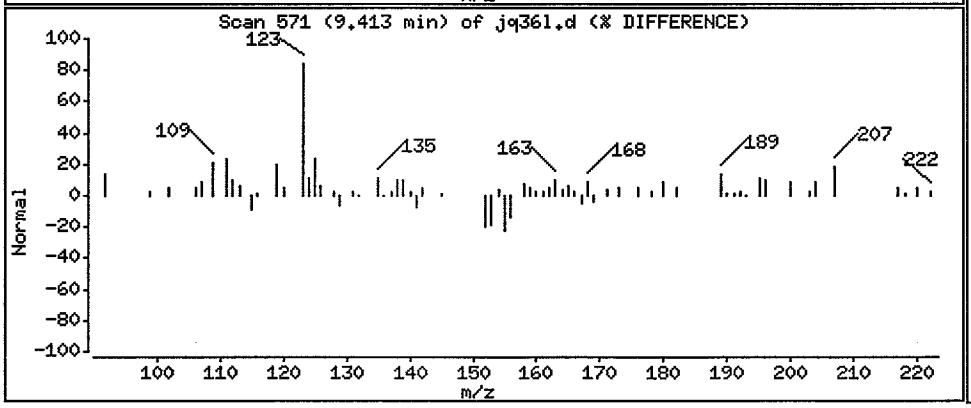
50 2,3,5-Trimethylnaphthalene

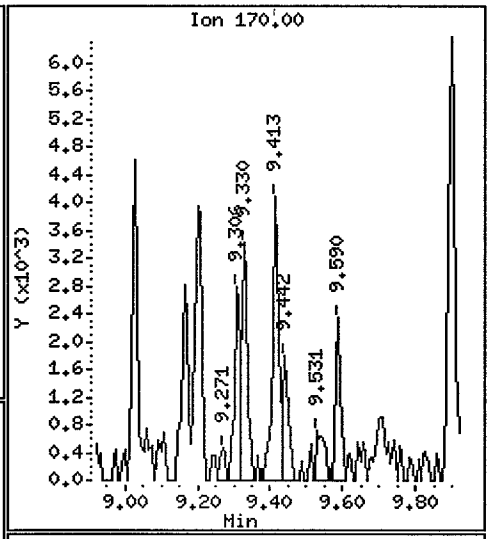
Concentration: 4.707 ug/kg

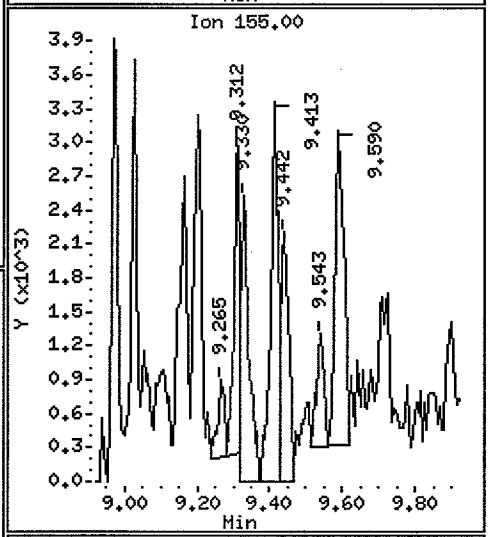


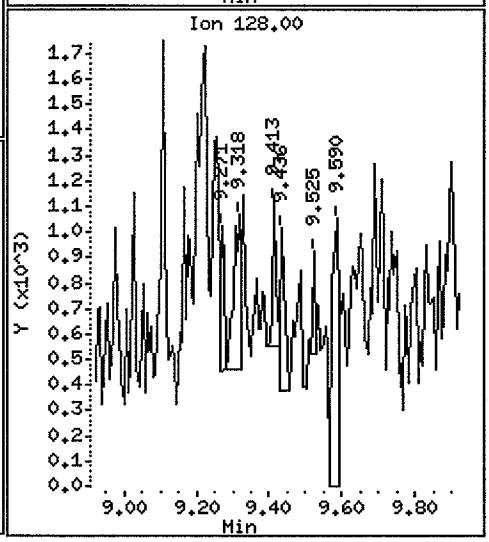












Data File: /chem3/nt1.i/20060810.b/jq36l.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

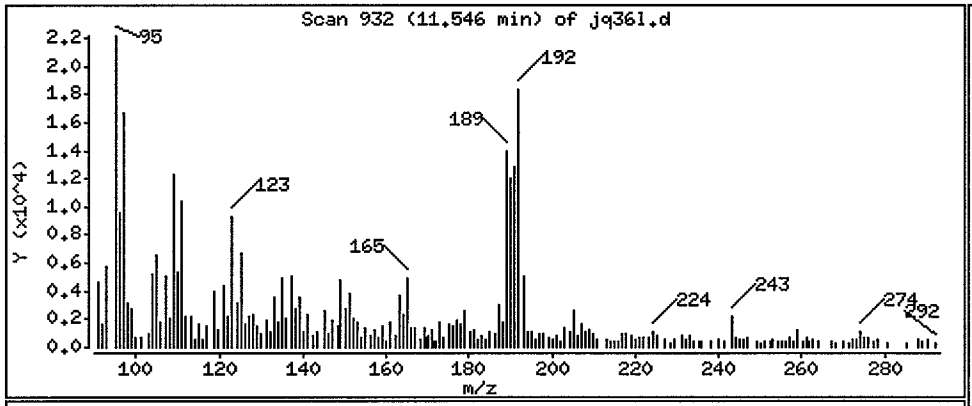
Operator: VTS

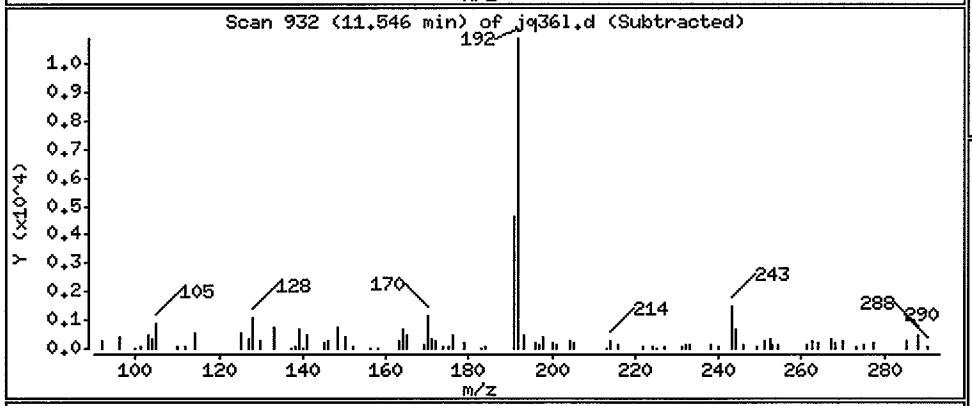
Column phase: ZB-5

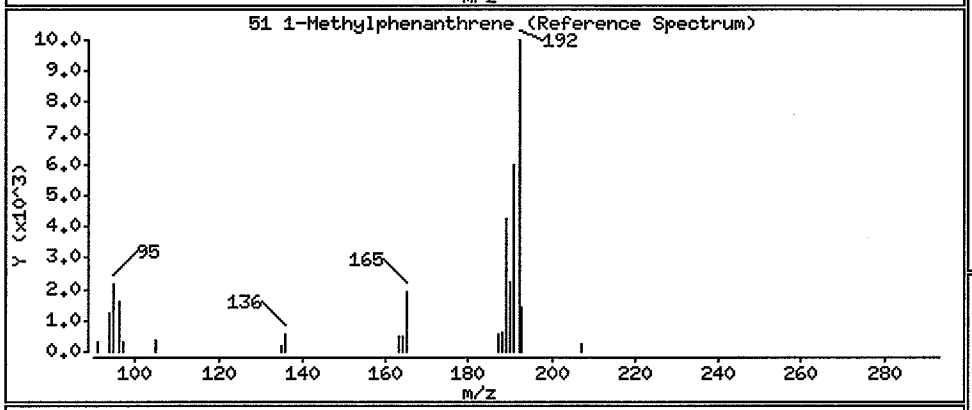
Column diameter: 0.25

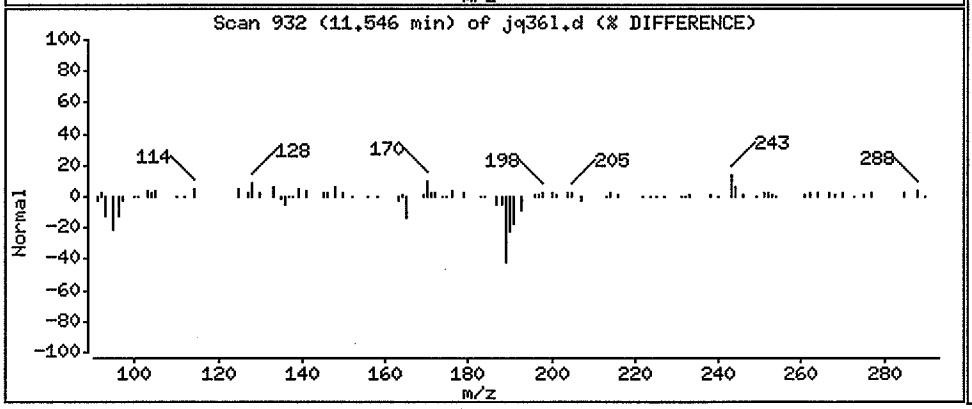
51 1-Methylphenanthrene

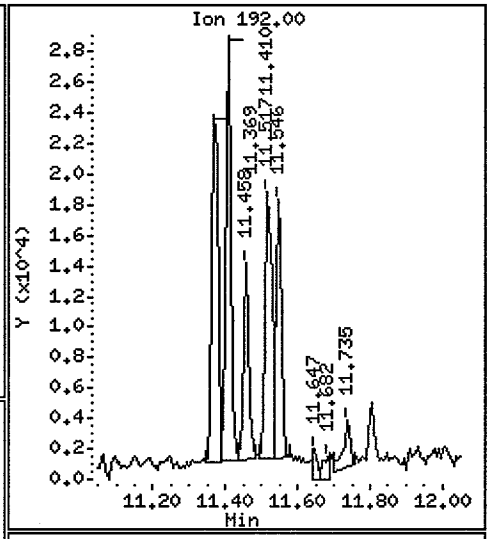
Concentration: 11.61 ug/kg

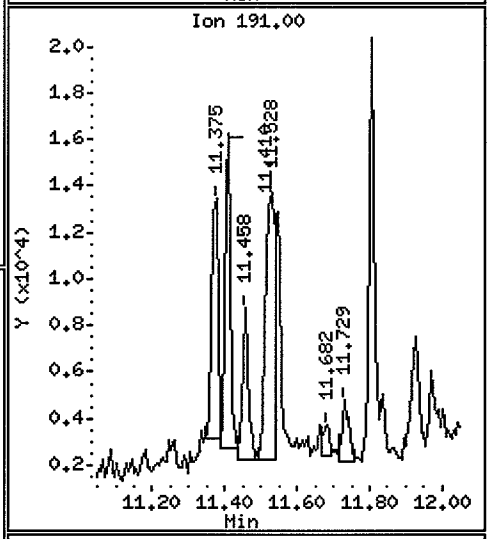


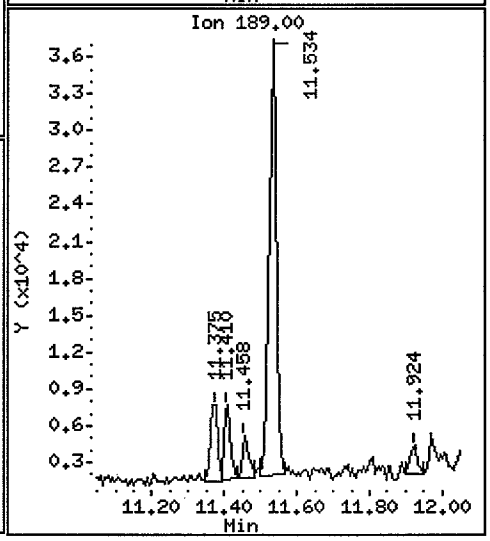












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

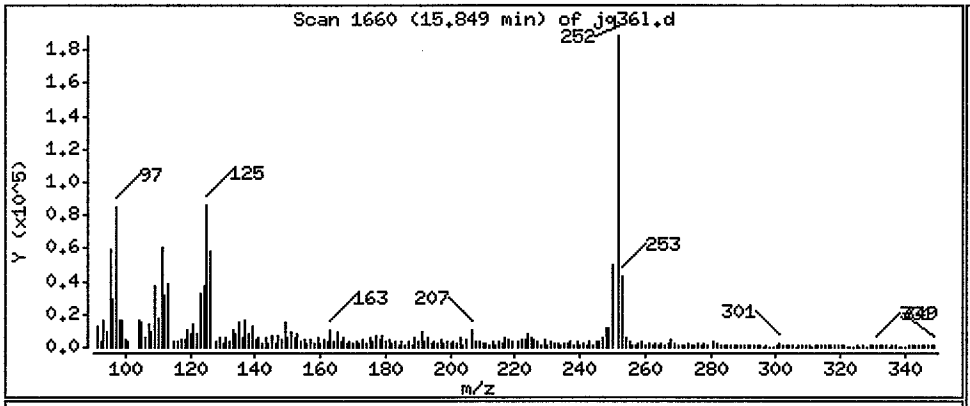
Operator: VTS

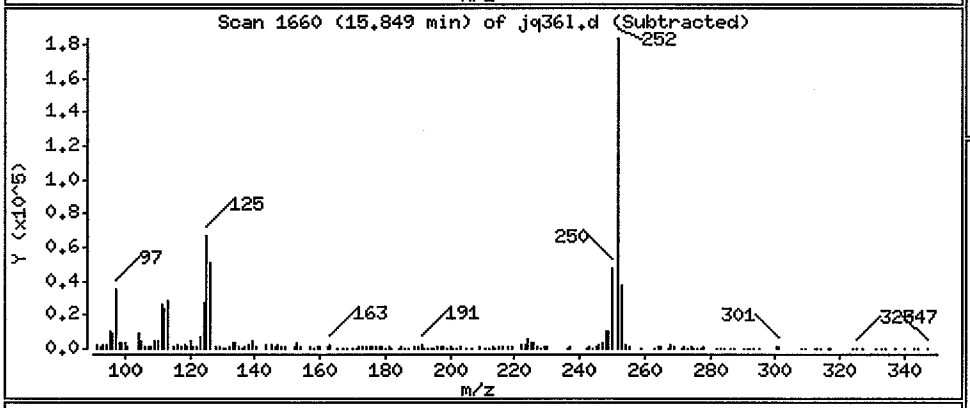
Column phase: ZB-5

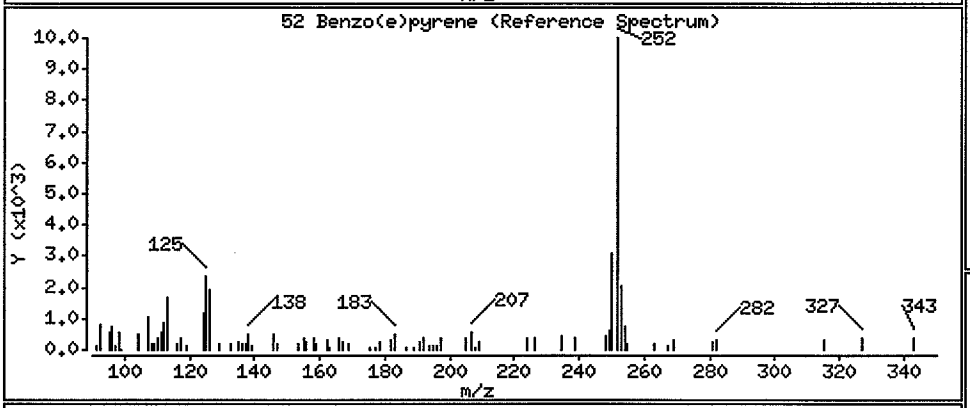
Column diameter: 0.25

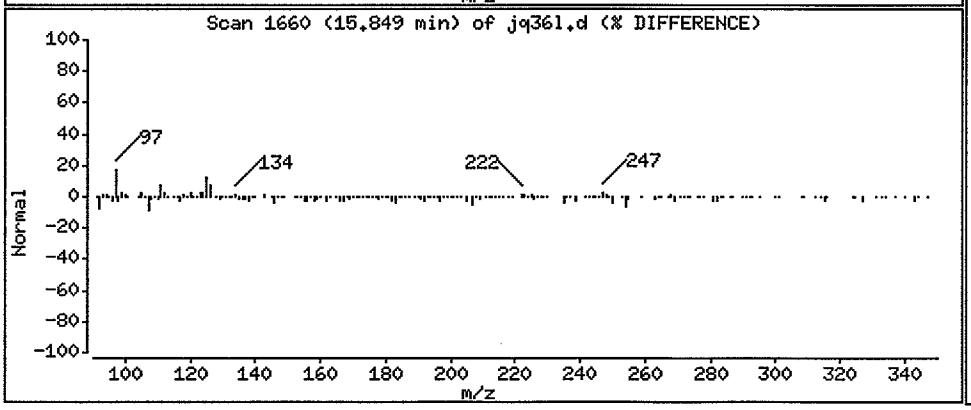
52 Benzo(e)pyrene

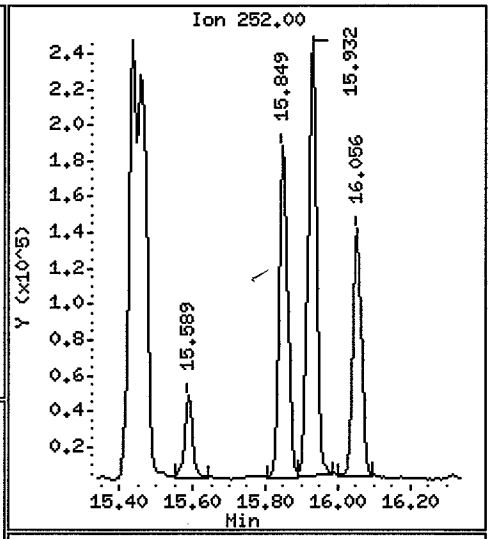
Concentration: 112.5 ug/kg

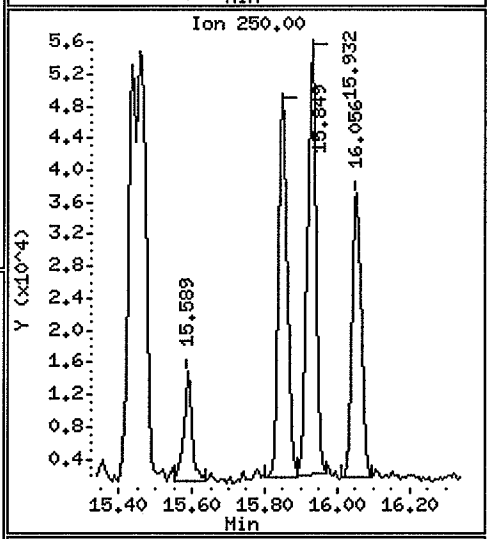


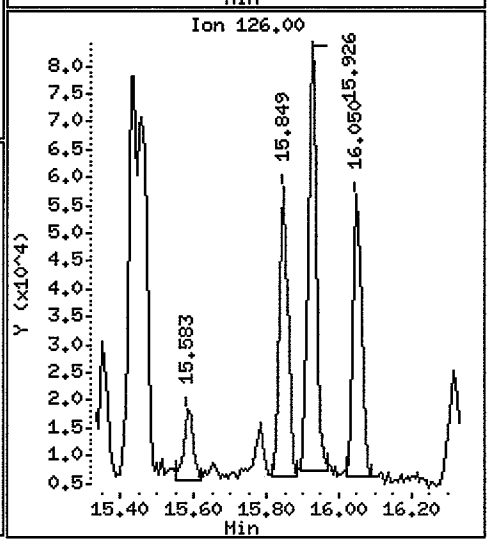












Data File: /chem3/nt1.i/20060810.b/jq361.d

Date : 10-AUG-2006 20:00

Client ID: T4-WB-04

Instrument: nt1.i

Sample Info: JQ36L

Volume Injected (uL): 1.0

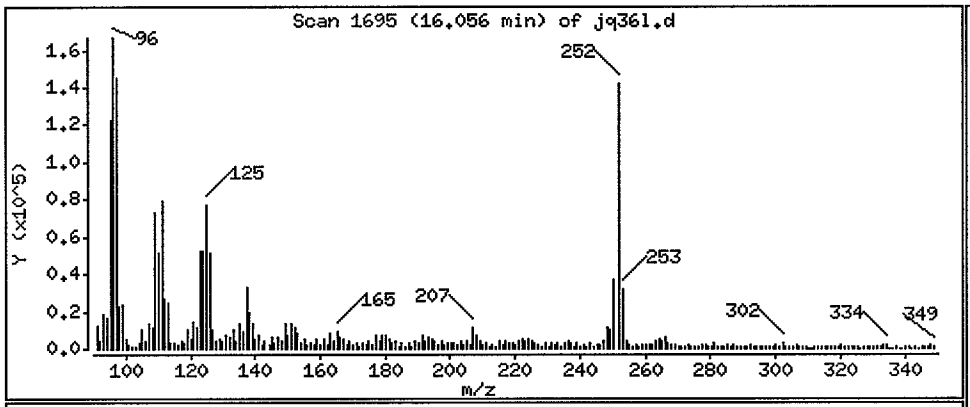
Operator: VTS

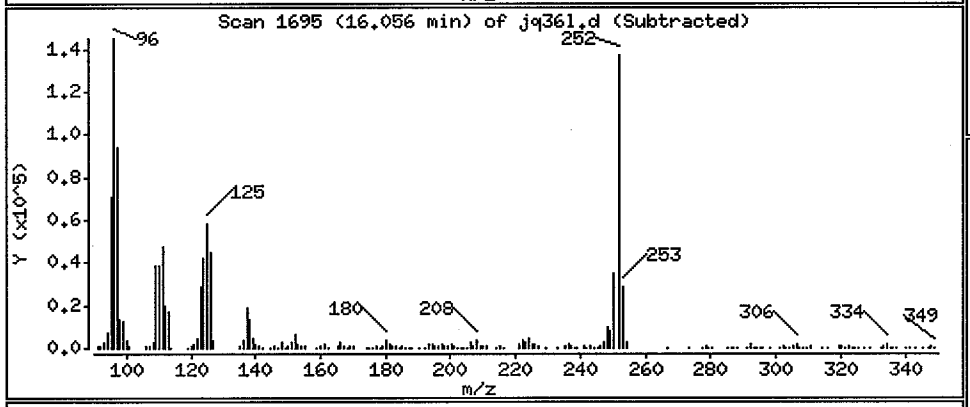
Column phase: ZB-5

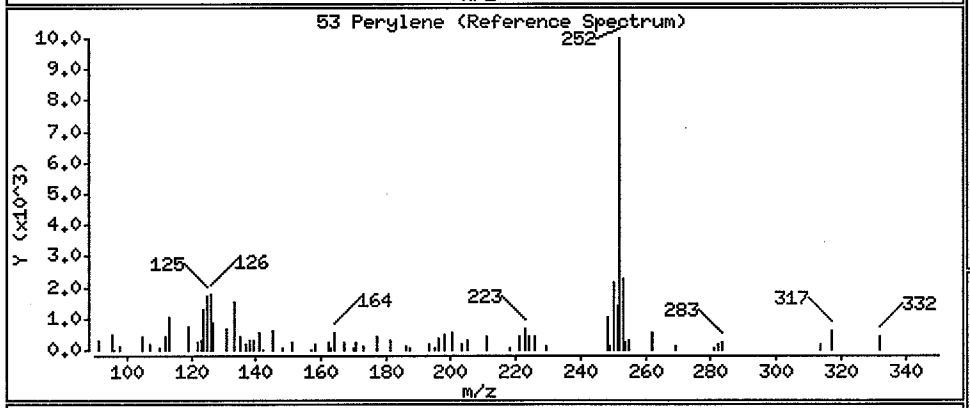
Column diameter: 0.25

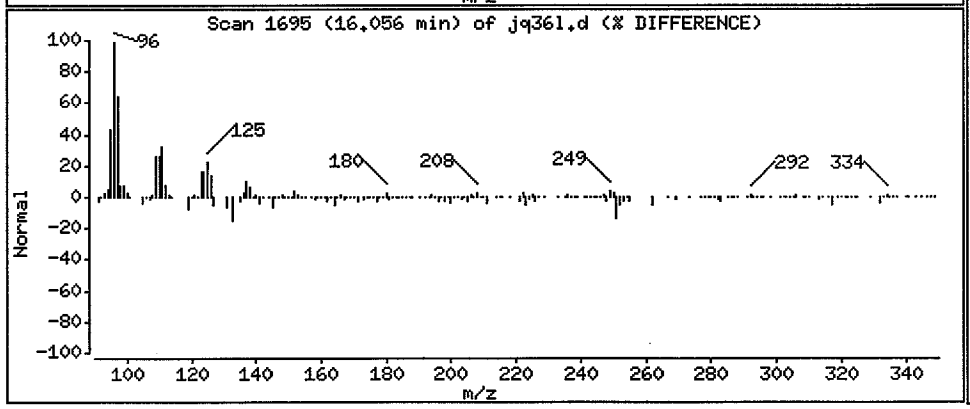
53 Perylene

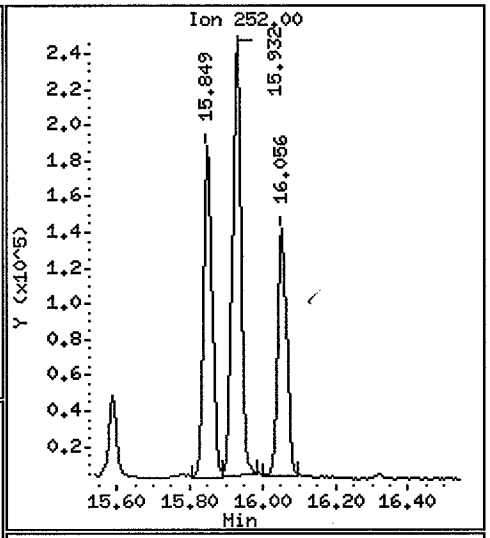
Concentration: 88.32 ug/kg

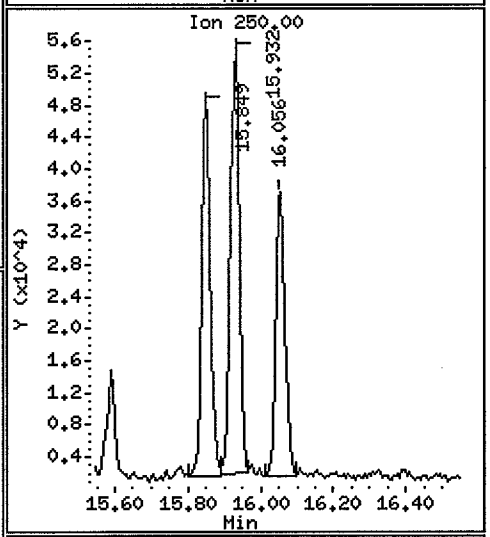


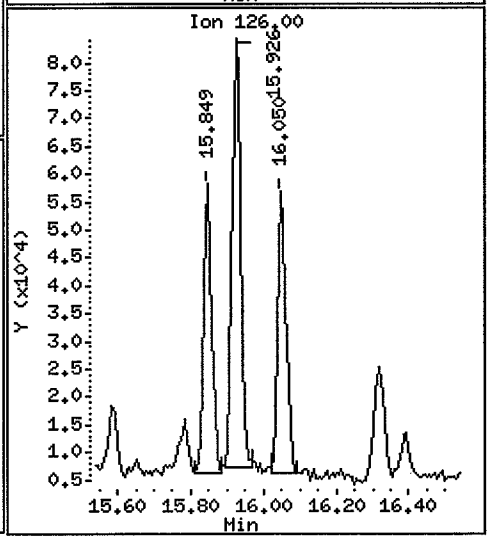












SIM Semivolatile Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ36

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Instrument ID: NT1 Calibration Date: 08/04/06

LAB FILE ID: RRF0.1=IC0803C RRF0.5=IC0806F RRF1 =IC0805E
RRF2.5=IC0803A RRF5 =IC0804D RRF10 =IC0803B

COMPOUND	RRF 0.1	RRF 0.5	RRF 1	RRF 2.5	RRF 5	RRF 10	$\overline{RRF}$	%RSD /R^2	
Naphthalene	1.125	1.009	0.898	0.958	1.001	0.994	0.998	7.5	
2-Methylnaphthalene	0.636	0.615	0.537	0.567	0.593	0.597	0.591	5.9	
Acenaphthylene	1.765	1.619	1.511	1.610	1.706	1.737	1.658	5.7	
Acenaphthene	1.004	1.013	0.898	0.950	1.004	1.023	0.982	4.9	*
Dibenzofuran	1.533	1.457	1.329	1.387	1.485	1.488	1.446	5.2	
Fluorene	1.136	1.180	1.026	1.065	1.172	1.178	1.126	5.8	
Phenanthrene	1.174	1.043	0.929	0.957	1.022	1.035	1.027	8.3	
Anthracene	1.114	0.977	0.949	0.974	1.067	1.074	1.026	6.6	
Fluoranthene	1.224	1.032	0.972	0.977	1.043	1.034	1.047	8.8	*
Pyrene	1.414	1.299	1.172	1.225	1.323	1.272	1.284	6.5	
Benzo(a)anthracene	1.436	1.152	1.085	1.148	1.213	1.192	1.204	10.1	
Chrysene	1.209	1.066	1.057	1.069	1.136	1.129	1.111	5.3	
Benzo(b)fluoranthene	1.255	1.066	0.993	1.151	1.170	1.136	1.128	8.0	
Benzo(k)fluoranthene	1.270	1.230	1.147	1.067	1.196	1.310	1.203	7.3	
Benzo(a)pyrene	1.404	1.047	0.964	1.011	1.066	1.108	1.100	14.2	*
Indeno(1,2,3-cd)pyrene	1.442	1.213	1.124	1.220	1.292	1.298	1.265	8.5	
Dibenz(a,h)anthracene	1.149	0.983	0.900	0.998	1.088	1.082	1.033	8.7	
Benzo(g,h,i)perylene	1.183	1.008	0.921	1.012	1.102	1.082	1.051	8.6	
1-Methylnaphthalene	0.700	0.601	0.573	0.594	0.631	0.619	0.620	7.1	
Biphenyl	1.319	1.232	1.166	1.161	1.274	1.262	1.236	5.1	
2,6-Dimethylnaphthalene	0.995	0.973	0.908	0.930	1.006	1.027	0.973	4.7	
2,3,5-Trimethylnaphthalene	0.844	0.792	0.734	0.769	0.831	0.813	0.797	5.2	
1-Methylphenanthrene	0.809	0.827	0.760	0.786	0.890	0.839	0.818	5.5	
Benzo(e)pyrene	1.531	1.132	1.076	1.146	1.202	1.217	1.217	13.3	
Perylene	1.431	1.091	0.966	1.050	1.159	1.162	1.143	13.9	
2-Methylnaphthalene-d10	0.529	0.518	0.474	0.506	0.540	0.523	0.515	4.5	
Dibenz(a,h)anthrancene-d14	0.819	0.739	0.678	0.757	0.800	0.799	0.765	6.8	

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

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2006 10:25
End Cal Date : 04-AUG-2006 12:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20060804.b/simpna.m
Cal Date : 04-Aug-2006 14:06 yev
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt1.i/20060804.b/ic0803c.d
Level 2: /chem3/nt1.i/20060804.b/ic0806f.d
Level 3: /chem3/nt1.i/20060804.b/ic0805e.d
Level 4: /chem3/nt1.i/20060804.b/ic0803a.d
Level 5: /chem3/nt1.i/20060804.b/ic0804d.d
Level 6: /chem3/nt1.i/20060804.b/ic0803b.d

Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	___ RRF	% RSD
53 Perylene	1.43115	1.09078	0.96639	1.04957	1.15866	1.16206	1.14310	13.903
52 Benzo(e)pyrene	1.53090	1.13190	1.07658	1.14554	1.20260	1.21723	1.21746	13.286
51 1-Methylphenanthrene	0.80940	0.82731	0.76038	0.78604	0.89011	0.83876	0.81867	5.498
50 2,3,5-Trimethylnaphthalene	0.84431	0.79178	0.73359	0.76892	0.83141	0.81303	0.79717	5.177
49 2,6-Dimethylnaphthalene	0.99510	0.97266	0.90848	0.92961	1.00646	1.02718	0.97325	4.728
48 Biphenyl	1.31930	1.23199	1.16604	1.16092	1.27363	1.26234	1.23570	5.066
2 Naphthalene	1.12466	1.00931	0.89847	0.95812	1.00108	0.99392	0.99759	7.460
4 2-Methylnaphthalene	0.63581	0.61473	0.53693	0.56716	0.59303	0.59702	0.59078	5.914
5 1-Methylnaphthalene	0.69976	0.60112	0.57333	0.59404	0.63094	0.61897	0.61969	7.104
6 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Acenaphthylene	1.76463	1.61945	1.51099	1.61007	1.70647	1.73743	1.65817	5.748
9 Acenaphthene	1.00382	1.01322	0.89794	0.94982	1.00430	1.02309	0.98203	4.934
10 Dibenzofuran	1.53264	1.45734	1.32913	1.38669	1.48525	1.48803	1.44651	5.184
11 Fluorene	1.13564	1.17974	1.02653	1.06502	1.17154	1.17805	1.12609	5.806
12 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Pentachlorophenol(ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Phenanthrene	1.17361	1.04291	0.92905	0.95712	1.02196	1.03476	1.02657	8.301
17 Anthracene	1.11351	0.97721	0.94890	0.97457	1.06714	1.07399	1.02589	6.557
18 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Fluoranthene	1.22401	1.03219	0.97216	0.97724	1.04303	1.03381	1.04707	8.775
20 Pyrene	1.41389	1.29929	1.17234	1.22526	1.32300	1.27178	1.28426	6.486

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2006 10:25
End Cal Date : 04-AUG-2006 12:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20060804.b/simpna.m
Cal Date : 04-Aug-2006 14:06 yev
Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	___ RRF	% RSD
21 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Benzo(a)anthracene	1.43622	1.15219	1.08471	1.14797	1.21336	1.19178	1.20437	10.116
24 Chrysene	1.20866	1.06599	1.05663	1.06862	1.13615	1.12909	1.11086	5.291
25 Bis-2-Ethylhexylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Benzo(b)fluoranthene	1.25514	1.06653	0.99327	1.15143	1.17026	1.13589	1.12875	7.972
29 Benzo(k)fluoranthene	1.27028	1.22994	1.14696	1.06693	1.19633	1.30970	1.20336	7.277
30 Benzo(a)pyrene	1.40367	1.04692	0.96366	1.01073	1.06659	1.10759	1.09986	14.247
33 Indeno(1,2,3-cd)pyrene	1.44180	1.21286	1.12410	1.22023	1.29241	1.29763	1.26484	8.489
34 Dibenz(a,h)anthracene	1.14880	0.98346	0.89994	0.99790	1.08788	1.08172	1.03328	8.676
35 Benzo(g,h,i)perylene	1.18275	1.00751	0.92124	1.01235	1.10231	1.08228	1.05141	8.633
$ 3 2-Methylnaphthalene-d10	0.52948	0.51807	0.47369	0.50637	0.54023	0.52298	0.51514	4.511
$ 13 2,4,6-Tribromophenol(ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 32 Dibenz(a,h)anthrancene-d14	0.81924	0.73944	0.67786	0.75717	0.79969	0.79896	0.76539	6.816

YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060804.b/ic0803a.d
Lab Smp Id: IC0803A
Inj Date : 04-AUG-2006 10:25
Operator : VTS Inst ID: nt1.i
Smp Info : IC0803A
Misc Info : SIM2.5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060804.b/simpna.m
Meth Date : 04-Aug-2006 14:06 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 10:25 Cal File: ic0803a.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.885	6.883	(1.000)	222814	2.00000	
	2 Naphthalene	128	6.908	6.907	(1.003)	266852	2.50000	2.401
$	3 2-Methylnaphthalene-d10	152	7.641	7.640	(1.110)	141032	2.50000	2.457
	4 2-Methylnaphthalene	142	7.682	7.681	(1.116)	157963	2.50000	2.400
	5 1-Methylnaphthalene	142	7.812	7.811	(1.135)	165451	2.50000	2.397
	7 Acenaphthylene	152	8.770	8.769	(0.980)	248737	2.50000	2.427
*	8 Acenaphthene-d10	164	8.947	8.946	(1.000)	123591	2.00000	
	9 Acenaphthene	153	8.989	8.987	(1.005)	146737	2.50000	2.418
	10 Dibenzofuran	168	9.178	9.170	(1.026)	214228	2.50000	2.397
	11 Fluorene	166	9.597	9.596	(1.073)	164534	2.50000	2.364
*	15 Phenanthrene-d10	188	10.762	10.760	(1.000)	200797	2.00000	
	16 Phenanthrene	178	10.791	10.790	(1.003)	240234	2.50000	2.331
	17 Anthracene	178	10.844	10.843	(1.008)	244614	2.50000	2.375
	19 Fluoranthene	202	12.280	12.279	(1.141)	245283	2.50000	2.333
	20 Pyrene	202	12.570	12.569	(0.893)	262220	2.50000	2.385
	22 Benzo(a)anthracene	228	14.054	14.052	(0.998)	245679	2.50000	2.383
*	23 Chrysene-d12	240	14.077	14.070	(1.000)	171210	2.00000	
	24 Chrysene	228	14.107	14.105	(1.002)	228699	2.50000	2.405
	28 Benzo(b)fluoranthene	252	15.448	15.447	(0.964)	264003	2.50000	2.550(H)
	29 Benzo(k)fluoranthene	252	15.478	15.476	(0.966)	244629	2.50000	2.217(H)
	30 Benzo(a)pyrene	252	15.945	15.938	(0.995)	231742	2.50000	2.297
*	31 Perylene-d12	264	16.028	16.026	(1.000)	183426	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.990	17.988	(1.122)	279777	2.50000	2.412
$	32 Dibenz(a,h)anthrancene-d14	292	17.919	17.906	(1.118)	173606	2.50000	2.473
	34 Dibenz(a,h)anthracene	278	17.984	17.976	(1.122)	228801	2.50000	2.414
	35 Benzo(g,h,i)perylene	276	18.575	18.562	(1.159)	232114	2.50000	2.407
	48 Biphenyl	154	8.220	8.219	(0.919)	179349	2.50000	2.349

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.409	8.408	(0.940)	143614	2.50000	2.388
50 2,3,5-Trimethylnaphthalene	170	9.438	9.430	(1.055)	118790	2.50000	2.411
51 1-Methylphenanthrene	192	11.565	11.564	(0.822)	168222	2.50000	2.400
52 Benzo(e)pyrene	252	15.862	15.861	(0.990)	262653	2.50000	2.352
53 Perylene	252	16.069	16.068	(1.003)	240649	2.50000	2.295

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0803a.d
Lab Smp Id: IC0803A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060804.b/simpna.m
Misc Info: SIM2.5

Calibration Date: 04-AUG-2006
Calibration Time: 10:25
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	222814	0.00
8 Acenaphthene-d10	123591	61796	247182	123591	0.00
15 Phenanthrene-d10	200797	100398	401594	200797	0.00
23 Chrysene-d12	171210	85605	342420	171210	0.00
31 Perylene-d12	183426	91713	366852	183426	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	0.00
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	0.00
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	0.00
23 Chrysene-d12	14.08	13.58	14.58	14.08	0.00
31 Perylene-d12	16.03	15.53	16.53	16.03	0.00

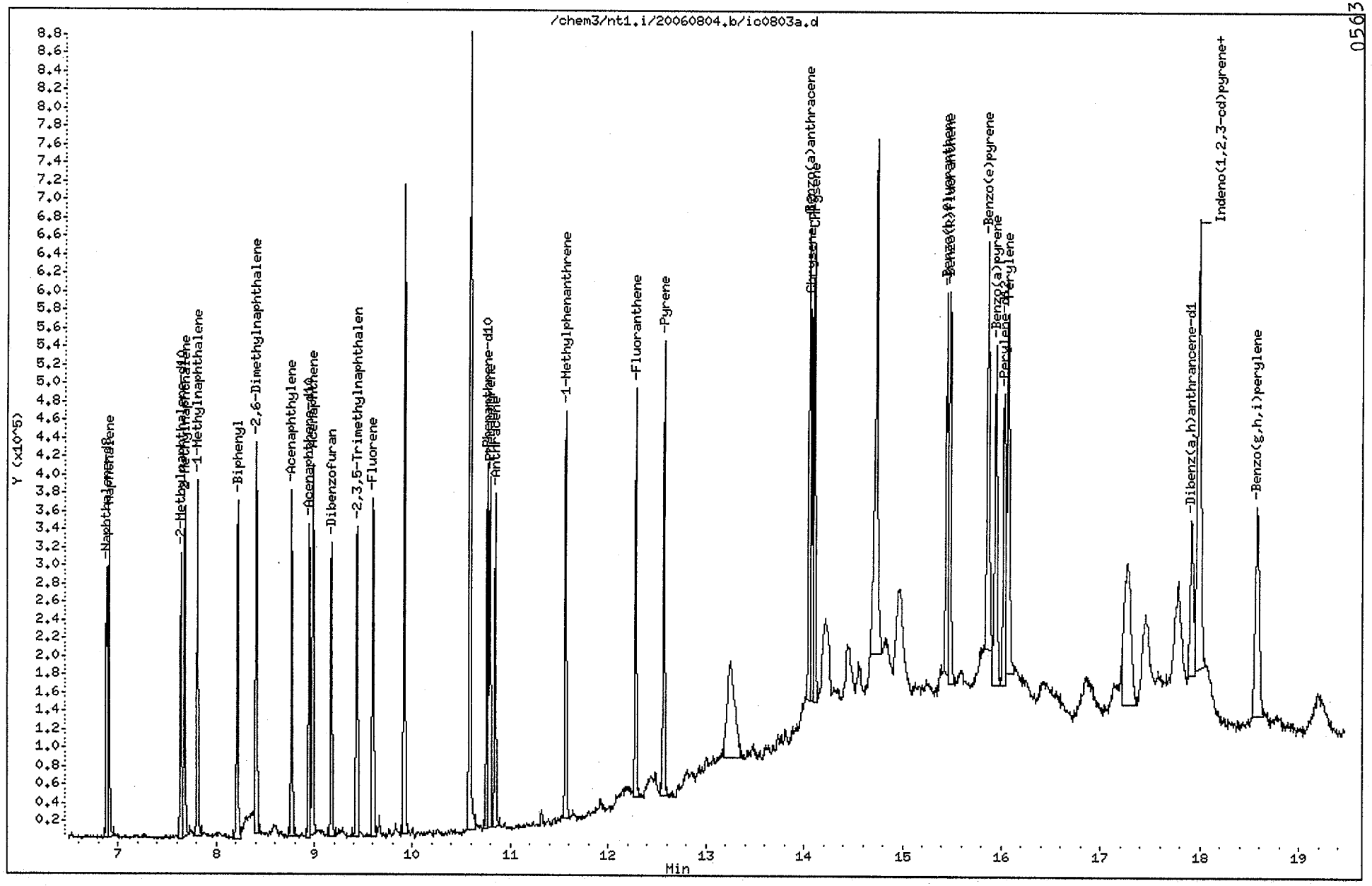
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/ic0803a.d
Date : 04-AUG-2006 10:25
Client ID:
Sample Info: IC0803A

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060804.b/ic0803b.d
Lab Smp Id: IC0803B
Inj Date : 04-AUG-2006 10:49
Operator : VTS Inst ID: nt1.i
Smp Info : IC0803B
Misc Info : SIM10
Comment : 1ul Injection
Method : /chem3/nt1.i/20060804.b/simpna.m
Meth Date : 04-Aug-2006 14:06 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 10:49 Cal File: ic0803b.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.883	6.883	(1.000)	258376	2.00000	
	2 Naphthalene	128	6.907	6.907	(1.003)	1284021	10.0000	9.963
$	3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	675627	10.0000	10.15
	4 2-Methylnaphthalene	142	7.681	7.681	(1.116)	771283	10.0000	10.11
	5 1-Methylnaphthalene	142	7.811	7.811	(1.135)	799638	10.0000	9.988
	7 Acenaphthylene	152	8.769	8.769	(0.980)	1171183	10.0000	10.48
*	8 Acenaphthene-d10	164	8.946	8.946	(1.000)	134818	2.00000	
	9 Acenaphthene	153	8.987	8.987	(1.005)	689655	10.0000	10.42
	10 Dibenzofuran	168	9.176	9.170	(1.026)	1003064	10.0000	10.29
	11 Fluorene	166	9.596	9.596	(1.073)	794109	10.0000	10.46
*	15 Phenanthrene-d10	188	10.760	10.760	(1.000)	213897	2.00000	
	16 Phenanthrene	178	10.790	10.790	(1.003)	1106661	10.0000	10.08
	17 Anthracene	178	10.843	10.843	(1.008)	1148617	10.0000	10.47
	19 Fluoranthene	202	12.285	12.279	(1.142)	1105648	10.0000	9.873
	20 Pyrene	202	12.569	12.569	(0.893)	1187636	10.0000	9.903
	22 Benzo(a)anthracene	228	14.052	14.052	(0.998)	1112932	10.0000	9.895
*	23 Chrysene-d12	240	14.076	14.070	(1.000)	186768	2.00000	
	24 Chrysene	228	14.105	14.105	(1.002)	1054391	10.0000	10.16
	28 Benzo(b)fluoranthene	252	15.453	15.447	(0.964)	1080977	10.0000	10.06(H)
	29 Benzo(k)fluoranthene	252	15.483	15.476	(0.966)	1246392	10.0000	10.88
	30 Benzo(a)pyrene	252	15.949	15.938	(0.995)	1054048	10.0000	10.07
*	31 Perylene-d12	264	16.026	16.026	(1.000)	190332	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	18.006	17.988	(1.124)	1234898	10.0000	10.26
$	32 Dibenz(a,h)anthrancene-d14	292	17.923	17.906	(1.118)	760341	10.0000	10.44
	34 Dibenz(a,h)anthracene	278	18.000	17.976	(1.123)	1029433	10.0000	10.47
	35 Benzo(g,h,i)perylene	276	18.585	18.562	(1.160)	1029959	10.0000	10.29
	48 Biphenyl	154	8.219	8.219	(0.919)	850928	10.0000	10.22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	692409	10.0000	10.55
50 2,3,5-Trimethylnaphthalene	170	9.437	9.430	(1.055)	548056	10.0000	10.20
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	783271	10.0000	10.25
52 Benzo(e)pyrene	252	15.867	15.861	(0.990)	1158385	10.0000	9.998
53 Perylene	252	16.074	16.068	(1.003)	1105890	10.0000	10.17

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0803b.d
Lab Smp Id: IC0803B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060804.b/simpna.m
Misc Info: SIM10

Calibration Date: 04-AUG-2006
Calibration Time: 10:25
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	258376	15.96
8 Acenaphthene-d10	123591	61796	247182	134818	9.08
15 Phenanthrene-d10	200797	100398	401594	213897	6.52
23 Chrysene-d12	171210	85605	342420	186768	9.09
31 Perylene-d12	183426	91713	366852	190332	3.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.01
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.01
23 Chrysene-d12	14.08	13.58	14.58	14.08	-0.01
31 Perylene-d12	16.03	15.53	16.53	16.03	-0.01

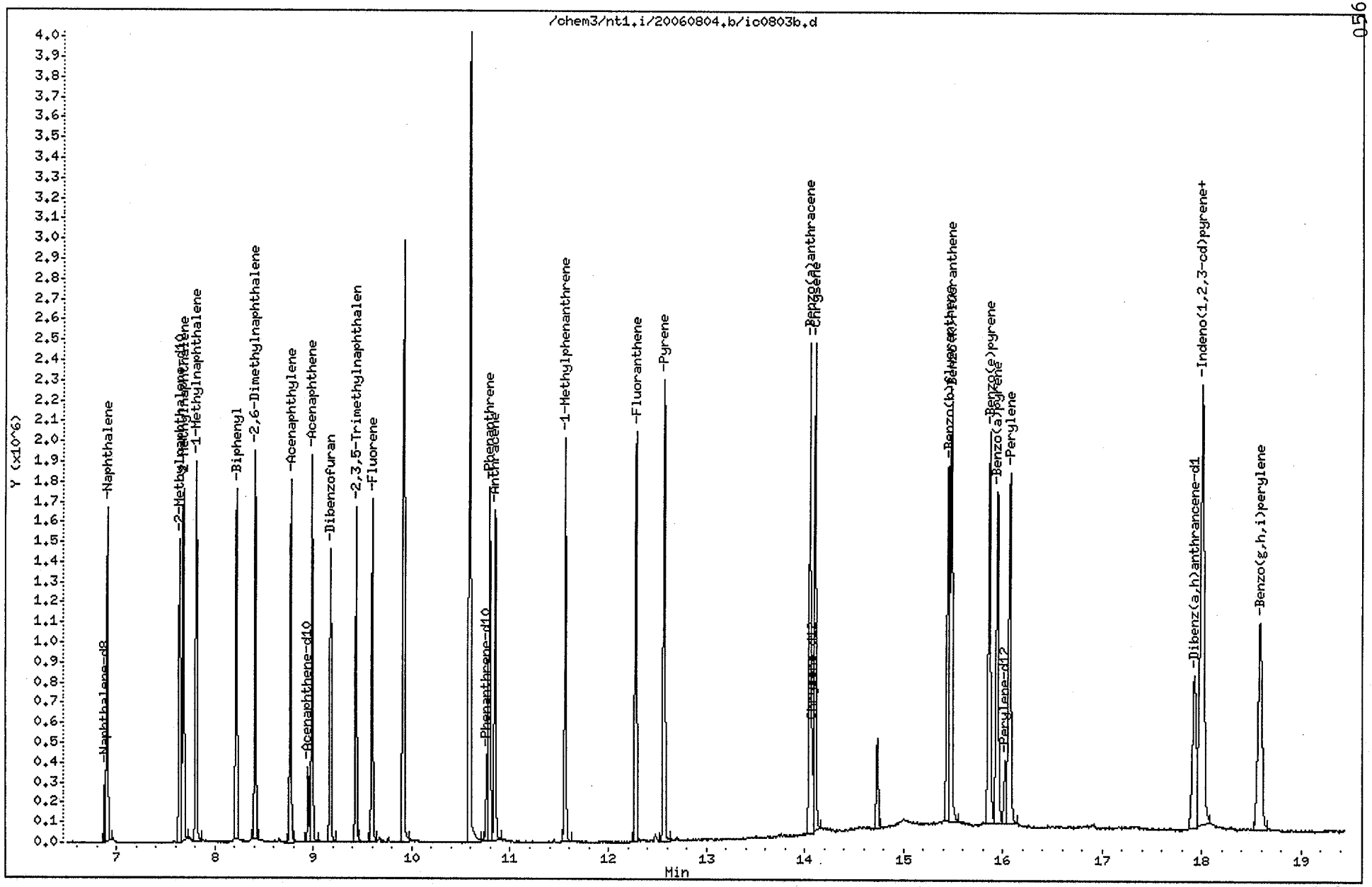
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/ic0803b.d
Date : 04-AUG-2006 10:49
Client ID:
Sample Info: IC0803B

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



0567

YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060804.b/ic0803c.d
Lab Smp Id: IC0803C
Inj Date : 04-AUG-2006 11:14
Operator : VTS Inst ID: nt1.i
Smp Info : IC0803C
Misc Info : SIM.1
Comment : 1ul Injection
Method : /chem3/nt1.i/20060804.b/simpna.m
Meth Date : 04-Aug-2006 14:06 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 11:14 Cal File: ic0803c.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.884	6.883	(1.000)	240196	2.00000	
	2 Naphthalene	128	6.907	6.907	(1.003)	13507	0.10000	0.1127
$	3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	6359	0.10000	0.1028
	4 2-Methylnaphthalene	142	7.676	7.681	(1.115)	7636	0.10000	0.1076
	5 1-Methylnaphthalene	142	7.811	7.811	(1.135)	8404	0.10000	0.1129
	7 Acenaphthylene	152	8.769	8.769	(0.980)	11539	0.10000	0.1064
*	8 Acenaphthene-d10	164	8.946	8.946	(1.000)	130781	2.00000	
	9 Acenaphthene	153	8.988	8.987	(1.005)	6564	0.10000	0.1022
	10 Dibenzofuran	168	9.171	9.170	(1.025)	10022	0.10000	0.1060
	11 Fluorene	166	9.596	9.596	(1.073)	7426	0.10000	0.1008
*	15 Phenanthrene-d10	188	10.755	10.760	(1.000)	214296	2.00000	
	16 Phenanthrene	178	10.784	10.790	(1.003)	12575	0.10000	0.1143
	17 Anthracene	178	10.843	10.843	(1.008)	11931	0.10000	0.1085
	19 Fluoranthene	202	12.280	12.279	(1.142)	13115	0.10000	0.1169
	20 Pyrene	202	12.569	12.569	(0.893)	13489	0.10000	0.1101
	22 Benzo(a)anthracene	228	14.047	14.052	(0.998)	13702	0.10000	0.1193
*	23 Chrysene-d12	240	14.070	14.070	(1.000)	190807	2.00000	
	24 Chrysene	228	14.100	14.105	(1.002)	11531	0.10000	0.1088
	28 Benzo(b)fluoranthene	252	15.447	15.447	(0.964)	12016	0.10000	0.1112(H)
	29 Benzo(k)fluoranthene	252	15.477	15.476	(0.966)	12161	0.10000	0.1056
	30 Benzo(a)pyrene	252	15.938	15.938	(0.995)	13438	0.10000	0.1276
*	31 Perylene-d12	264	16.021	16.026	(1.000)	191469	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.983	17.988	(1.122)	13803	0.10000	0.1140
$	32 Dibenz(a,h)anthrancene-d14	292	17.906	17.906	(1.118)	7843	0.10000	0.1070
	34 Dibenz(a,h)anthracene	278	17.977	17.976	(1.122)	10998	0.10000	0.1112
	35 Benzo(g,h,i)perylene	276	18.562	18.562	(1.159)	11323	0.10000	0.1125
	48 Biphenyl	154	8.213	8.219	(0.918)	8627	0.10000	0.1068

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	6507	0.10000	0.1022
50 2,3,5-Trimethylnaphthalene	170	9.437	9.430	(1.055)	5521	0.10000	0.1059
51 1-Methylphenanthrene	192	11.558	11.564	(0.821)	7722	0.10000	0.09887
52 Benzo(e)pyrene	252	15.861	15.861	(0.990)	14656	0.10000	0.1257
53 Perylene	252	16.062	16.068	(1.003)	13701	0.10000	0.1252

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0803c.d
Lab Smp Id: IC0803C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060804.b/simpna.m
Misc Info: SIM.1

Calibration Date: 04-AUG-2006
Calibration Time: 10:25

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	240196	7.80
8 Acenaphthene-d10	123591	61796	247182	130781	5.82
15 Phenanthrene-d10	200797	100398	401594	214296	6.72
23 Chrysene-d12	171210	85605	342420	190807	11.45
31 Perylene-d12	183426	91713	366852	191469	4.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.01
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.01
15 Phenanthrene-d10	10.76	10.26	11.26	10.75	-0.06
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.02	-0.04

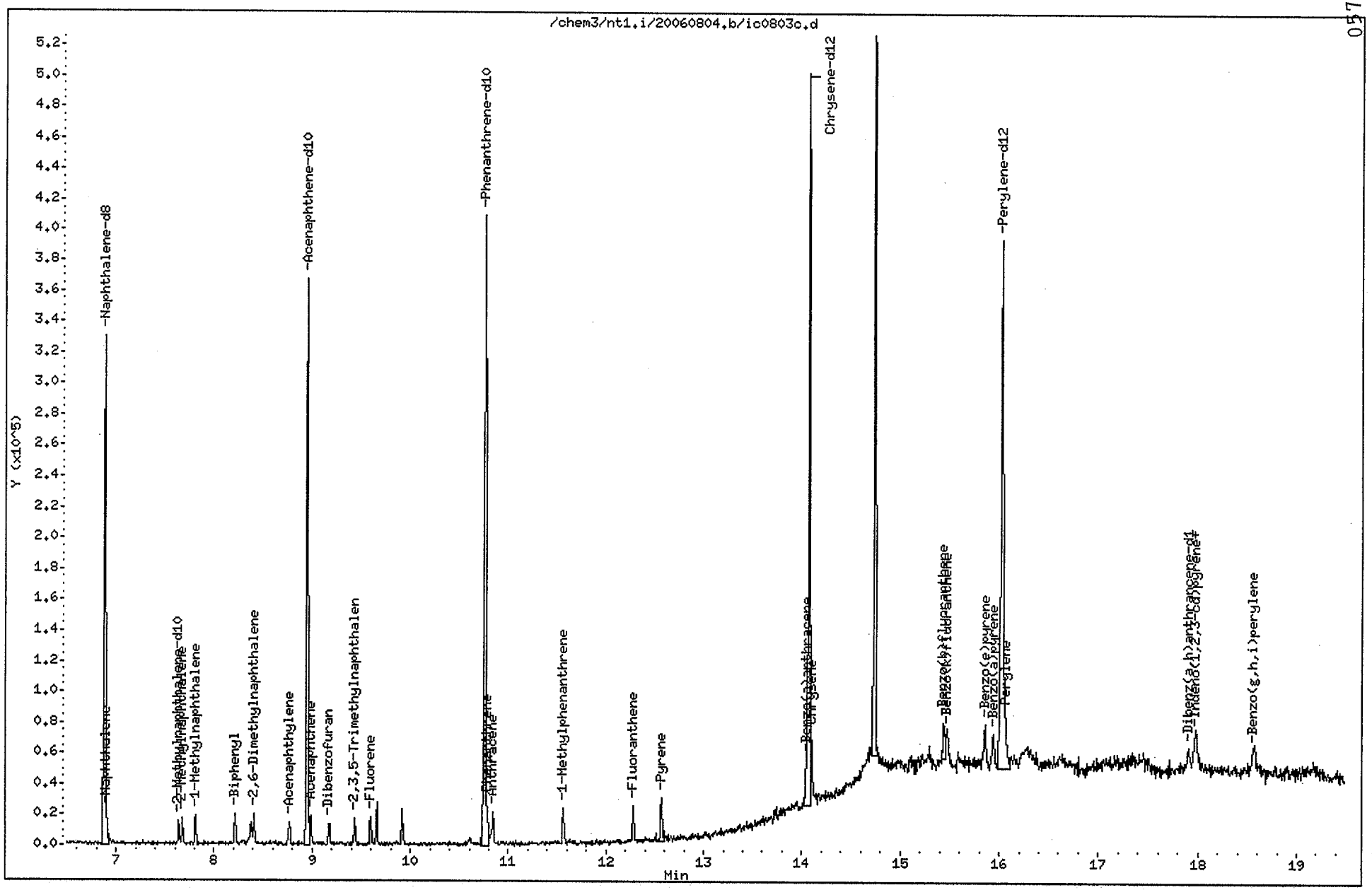
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/ic0803c.d
Date : 04-AUG-2006 11:14
Client ID:
Sample Info: IC0803C

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060804.b/ic0804d.d
Lab Smp Id: IC0803D
Inj Date : 04-AUG-2006 11:39
Operator : VTS Inst ID: nt1.i
Smp Info : IC0803D
Misc Info : SIM5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060804.b/simpna.m
Meth Date : 04-Aug-2006 14:06 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 11:39 Cal File: ic0804d.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.883	6.883	(1.000)	245793	2.00000	
	2 Naphthalene	128	6.907	6.907	(1.003)	615146	5.00000	5.017
$	3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	331961	5.00000	5.244
	4 2-Methylnaphthalene	142	7.681	7.681	(1.116)	364409	5.00000	5.019
	5 1-Methylnaphthalene	142	7.811	7.811	(1.135)	387701	5.00000	5.091
	7 Acenaphthylene	152	8.769	8.769	(0.980)	575026	5.00000	5.146
*	8 Acenaphthene-d10	164	8.946	8.946	(1.000)	134787	2.00000	
	9 Acenaphthene	153	8.987	8.987	(1.005)	338418	5.00000	5.113
	10 Dibenzofuran	168	9.176	9.170	(1.026)	500480	5.00000	5.134
	11 Fluorene	166	9.596	9.596	(1.073)	394771	5.00000	5.202
*	15 Phenanthrene-d10	188	10.760	10.760	(1.000)	216386	2.00000	
	16 Phenanthrene	178	10.790	10.790	(1.003)	552843	5.00000	4.978
	17 Anthracene	178	10.843	10.843	(1.008)	577287	5.00000	5.201
	19 Fluoranthene	202	12.279	12.279	(1.141)	564245	5.00000	4.981
	20 Pyrene	202	12.569	12.569	(0.893)	606835	5.00000	5.151
	22 Benzo(a)anthracene	228	14.052	14.052	(0.999)	556548	5.00000	5.037
*	23 Chrysene-d12	240	14.070	14.070	(1.000)	183473	2.00000	
	24 Chrysene	228	14.105	14.105	(1.003)	521133	5.00000	5.114
	28 Benzo(b)fluoranthene	252	15.447	15.447	(0.964)	574952	5.00000	5.184(H)
	29 Benzo(k)fluoranthene	252	15.477	15.476	(0.966)	587760	5.00000	4.971
	30 Benzo(a)pyrene	252	15.944	15.938	(0.995)	524018	5.00000	4.849
*	31 Perylene-d12	264	16.026	16.026	(1.000)	196521	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.994	17.988	(1.123)	634963	5.00000	5.109
$	32 Dibenz(a,h)anthrancene-d14	292	17.918	17.906	(1.118)	392891	5.00000	5.224
	34 Dibenz(a,h)anthracene	278	17.988	17.976	(1.122)	534480	5.00000	5.264
	35 Benzo(g,h,i)perylene	276	18.579	18.562	(1.159)	541568	5.00000	5.242
	48 Biphenyl	154	8.219	8.219	(0.919)	429172	5.00000	5.153

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	339145	5.00000	5.171
50 2,3,5-Trimethylnaphthalene	170	9.437	9.430	(1.055)	280157	5.00000	5.215
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	408278	5.00000	5.436
52 Benzo(e)pyrene	252	15.867	15.861	(0.990)	590838	5.00000	4.939
53 Perylene	252	16.068	16.068	(1.003)	569254	5.00000	5.068

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0804d.d
Lab Smp Id: IC0803D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060804.b/simpna.m
Misc Info: SIM5

Calibration Date: 04-AUG-2006
Calibration Time: 10:25

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	245793	10.31
8 Acenaphthene-d10	123591	61796	247182	134787	9.06
15 Phenanthrene-d10	200797	100398	401594	216386	7.76
23 Chrysene-d12	171210	85605	342420	183473	7.16
31 Perylene-d12	183426	91713	366852	196521	7.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.01
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.01
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.03	-0.01

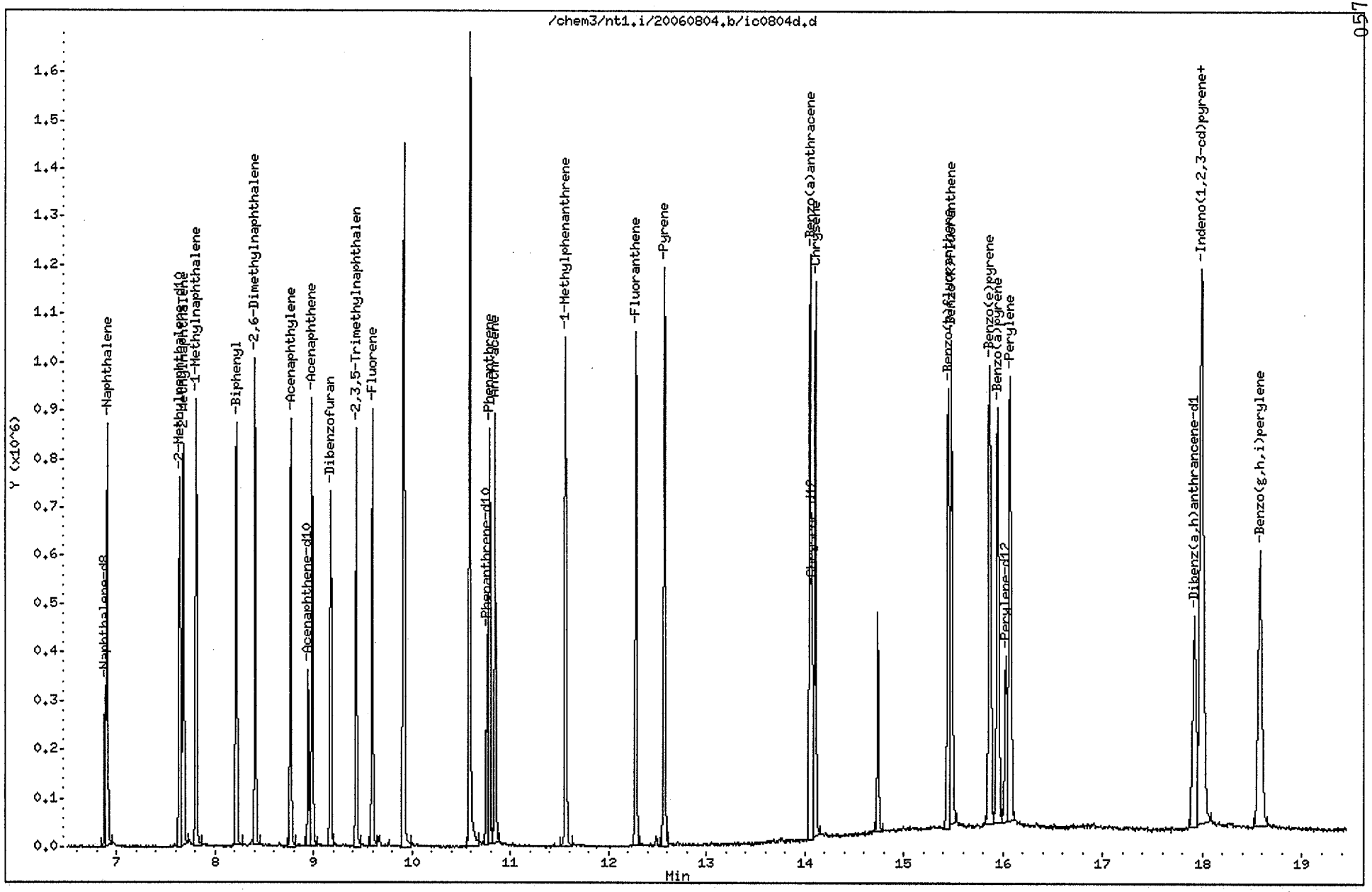
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/ic0804d.d
Date : 04-AUG-2006 11:39
Client ID:
Sample Info: IC0803D

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



0575

YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060804.b/ic0805e.d
Lab Smp Id: IC0803E
Inj Date : 04-AUG-2006 12:04
Operator : VTS Inst ID: nt1.i
Smp Info : IC0803E
Misc Info : SIM1
Comment : 1ul Injection
Method : /chem3/nt1.i/20060804.b/simpna.m
Meth Date : 04-Aug-2006 14:06 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 12:04 Cal File: ic0805e.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.883	6.883	(1.000)	305770	2.00000	
	2 Naphthalene	128	6.907	6.907	(1.003)	137362	1.00000	0.9006
$	3 2-Methylnaphthalene-d10	152	7.639	7.640	(1.110)	72420	1.00000	0.9195
	4 2-Methylnaphthalene	142	7.681	7.681	(1.116)	82089	1.00000	0.9089
	5 1-Methylnaphthalene	142	7.811	7.811	(1.135)	87654	1.00000	0.9252
	7 Acenaphthylene	152	8.768	8.769	(0.980)	125504	1.00000	0.9112
*	8 Acenaphthene-d10	164	8.946	8.946	(1.000)	166121	2.00000	
	9 Acenaphthene	153	8.987	8.987	(1.005)	74583	1.00000	0.9144
	10 Dibenzofuran	168	9.176	9.170	(1.026)	110398	1.00000	0.9189
	11 Fluorene	166	9.596	9.596	(1.073)	85264	1.00000	0.9116
*	15 Phenanthrene-d10	188	10.760	10.760	(1.000)	269899	2.00000	
	16 Phenanthrene	178	10.790	10.790	(1.003)	125375	1.00000	0.9050
	17 Anthracene	178	10.843	10.843	(1.008)	128053	1.00000	0.9250
	19 Fluoranthene	202	12.279	12.279	(1.141)	131192	1.00000	0.9285
	20 Pyrene	202	12.568	12.569	(0.893)	138272	1.00000	0.9129
	22 Benzo(a)anthracene	228	14.052	14.052	(0.999)	127937	1.00000	0.9006
*	23 Chrysene-d12	240	14.070	14.070	(1.000)	235891	2.00000	
	24 Chrysene	228	14.105	14.105	(1.003)	124625	1.00000	0.9512
	28 Benzo(b)fluoranthene	252	15.447	15.447	(0.964)	119023	1.00000	0.8800
	29 Benzo(k)fluoranthene	252	15.476	15.476	(0.966)	137439	1.00000	0.9531
	30 Benzo(a)pyrene	252	15.943	15.938	(0.995)	115475	1.00000	0.8762
*	31 Perylene-d12	264	16.026	16.026	(1.000)	239658	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.982	17.988	(1.122)	134700	1.00000	0.8887
$	32 Dibenz(a,h)anthrancene-d14	292	17.911	17.906	(1.118)	81227	1.00000	0.8856
	34 Dibenz(a,h)anthracene	278	17.982	17.976	(1.122)	107839	1.00000	0.8710
	35 Benzo(g,h,i)perylene	276	18.567	18.562	(1.159)	110391	1.00000	0.8762
	48 Biphenyl	154	8.219	8.219	(0.919)	96852	1.00000	0.9436

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	75459	1.00000	0.9335
50 2,3,5-Trimethylnaphthalene	170	9.436	9.430	(1.055)	60932	1.00000	0.9202
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	89683	1.00000	0.9288
52 Benzo(e)pyrene	252	15.860	15.861	(0.990)	129005	1.00000	0.8843
53 Perylene	252	16.067	16.068	(1.003)	115802	1.00000	0.8454

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0805e.d
Lab Smp Id: IC0803E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060804.b/simpna.m
Misc Info: SIM1

Calibration Date: 04-AUG-2006
Calibration Time: 10:25

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	305770	37.23
8 Acenaphthene-d10	123591	61796	247182	166121	34.41
15 Phenanthrene-d10	200797	100398	401594	269899	34.41
23 Chrysene-d12	171210	85605	342420	235891	37.78
31 Perylene-d12	183426	91713	366852	239658	30.66

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.02
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.02
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.03	-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.

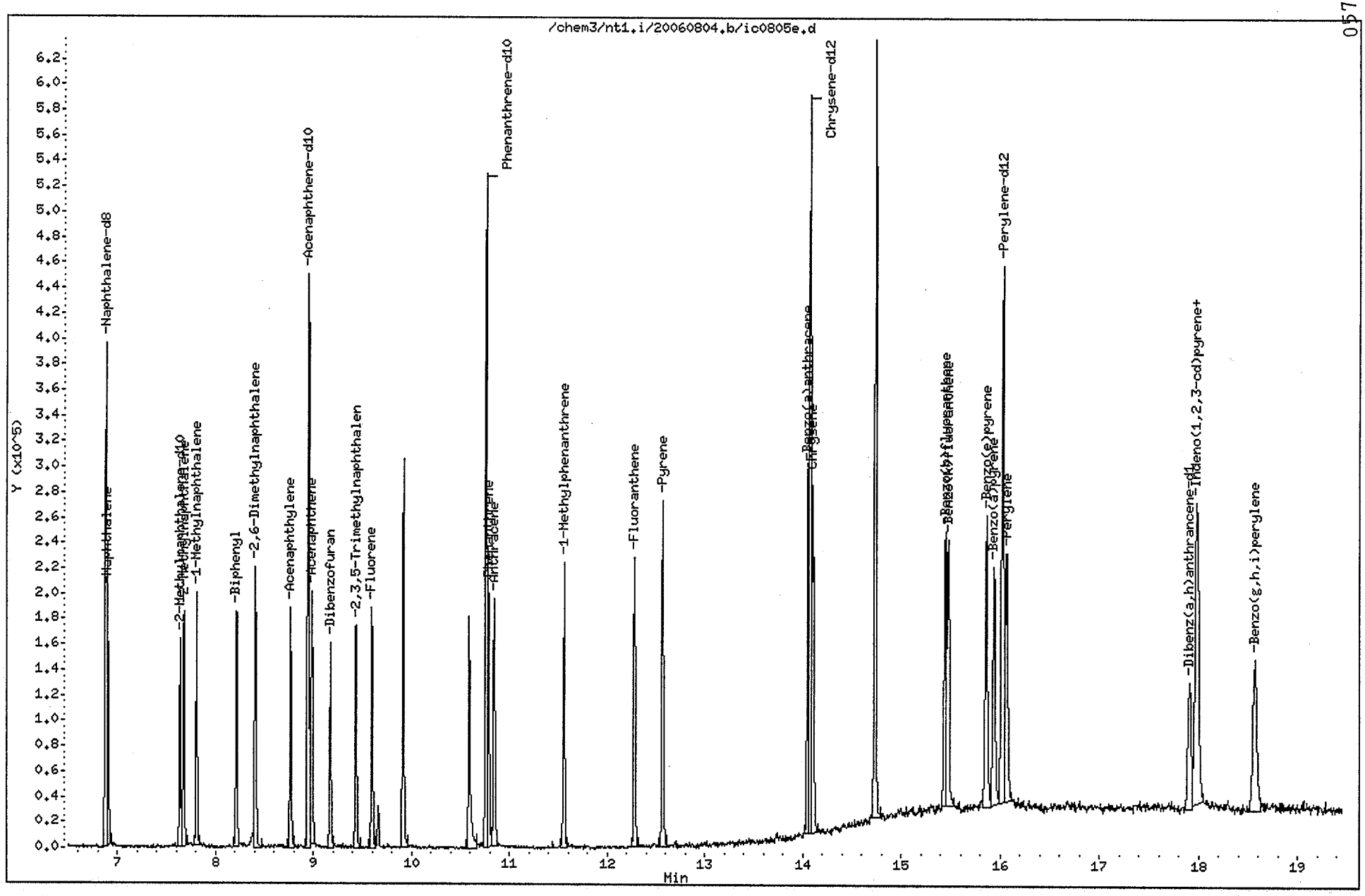
Data File: /chem3/nt1.i/20060804.b/ic0805e.d
Date : 04-AUG-2006 12:04
Client ID:
Sample Info: IC0803E

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0579



YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060804.b/ic0806f.d
Lab Smp Id: IC0803F
Inj Date : 04-AUG-2006 12:28
Operator : VTS Inst ID: nt1.i
Smp Info : IC0803F
Misc Info : SIM0.5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060804.b/simpna.m
Meth Date : 04-Aug-2006 14:06 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.883	6.883	(1.000)	245095	2.00000	
	2 Naphthalene	128	6.907	6.907	(1.003)	61844	0.50000	0.5059
$	3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	31744	0.50000	0.5028
	4 2-Methylnaphthalene	142	7.681	7.681	(1.116)	37667	0.50000	0.5203
	5 1-Methylnaphthalene	142	7.811	7.811	(1.135)	36833	0.50000	0.4850
	7 Acenaphthylene	152	8.769	8.769	(0.980)	53344	0.50000	0.4883
*	8 Acenaphthene-d10	164	8.946	8.946	(1.000)	131758	2.00000	
	9 Acenaphthene	153	8.987	8.987	(1.005)	33375	0.50000	0.5159
	10 Dibenzofuran	168	9.170	9.170	(1.025)	48004	0.50000	0.5037
	11 Fluorene	166	9.596	9.596	(1.073)	38860	0.50000	0.5238
*	15 Phenanthrene-d10	188	10.760	10.760	(1.000)	219114	2.00000	
	16 Phenanthrene	178	10.790	10.790	(1.003)	57129	0.50000	0.5080
	17 Anthracene	178	10.843	10.843	(1.008)	53530	0.50000	0.4763
	19 Fluoranthene	202	12.279	12.279	(1.141)	56542	0.50000	0.4929
	20 Pyrene	202	12.569	12.569	(0.893)	62209	0.50000	0.5059
	22 Benzo(a)anthracene	228	14.052	14.052	(0.999)	55166	0.50000	0.4783
*	23 Chrysene-d12	240	14.070	14.070	(1.000)	191517	2.00000	
	24 Chrysene	228	14.105	14.105	(1.003)	51039	0.50000	0.4798
	28 Benzo(b)fluoranthene	252	15.447	15.447	(0.964)	52637	0.50000	0.4724
	29 Benzo(k)fluoranthene	252	15.476	15.476	(0.966)	60702	0.50000	0.5110
	30 Benzo(a)pyrene	252	15.938	15.938	(0.994)	51669	0.50000	0.4759
*	31 Perylene-d12	264	16.026	16.026	(1.000)	197414	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.988	17.988	(1.122)	59859	0.50000	0.4795
$	32 Dibenz(a,h)anthrancene-d14	292	17.906	17.906	(1.117)	36494	0.50000	0.4830
	34 Dibenz(a,h)anthracene	278	17.976	17.976	(1.122)	48537	0.50000	0.4759
	35 Benzo(g,h,i)perylene	276	18.562	18.562	(1.158)	49724	0.50000	0.4791
	48 Biphenyl	154	8.219	8.219	(0.919)	40581	0.50000	0.4985

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	32039	0.50000	0.4997
50 2,3,5-Trimethylnaphthalene	170	9.430	9.430	(1.054)	26081	0.50000	0.4966
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	39611	0.50000	0.5053
52 Benzo(e)pyrene	252	15.861	15.861	(0.990)	55863	0.50000	0.4649
53 Perylene	252	16.068	16.068	(1.003)	53834	0.50000	0.4771

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0806f.d
Lab Smp Id: IC0803F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060804.b/simpna.m
Misc Info: SIM0.5

Calibration Date: 04-AUG-2006
Calibration Time: 10:25

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	245095	10.00
8 Acenaphthene-d10	123591	61796	247182	131758	6.61
15 Phenanthrene-d10	200797	100398	401594	219114	9.12
23 Chrysene-d12	171210	85605	342420	191517	11.86
31 Perylene-d12	183426	91713	366852	197414	7.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.02
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.01
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.03	-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.

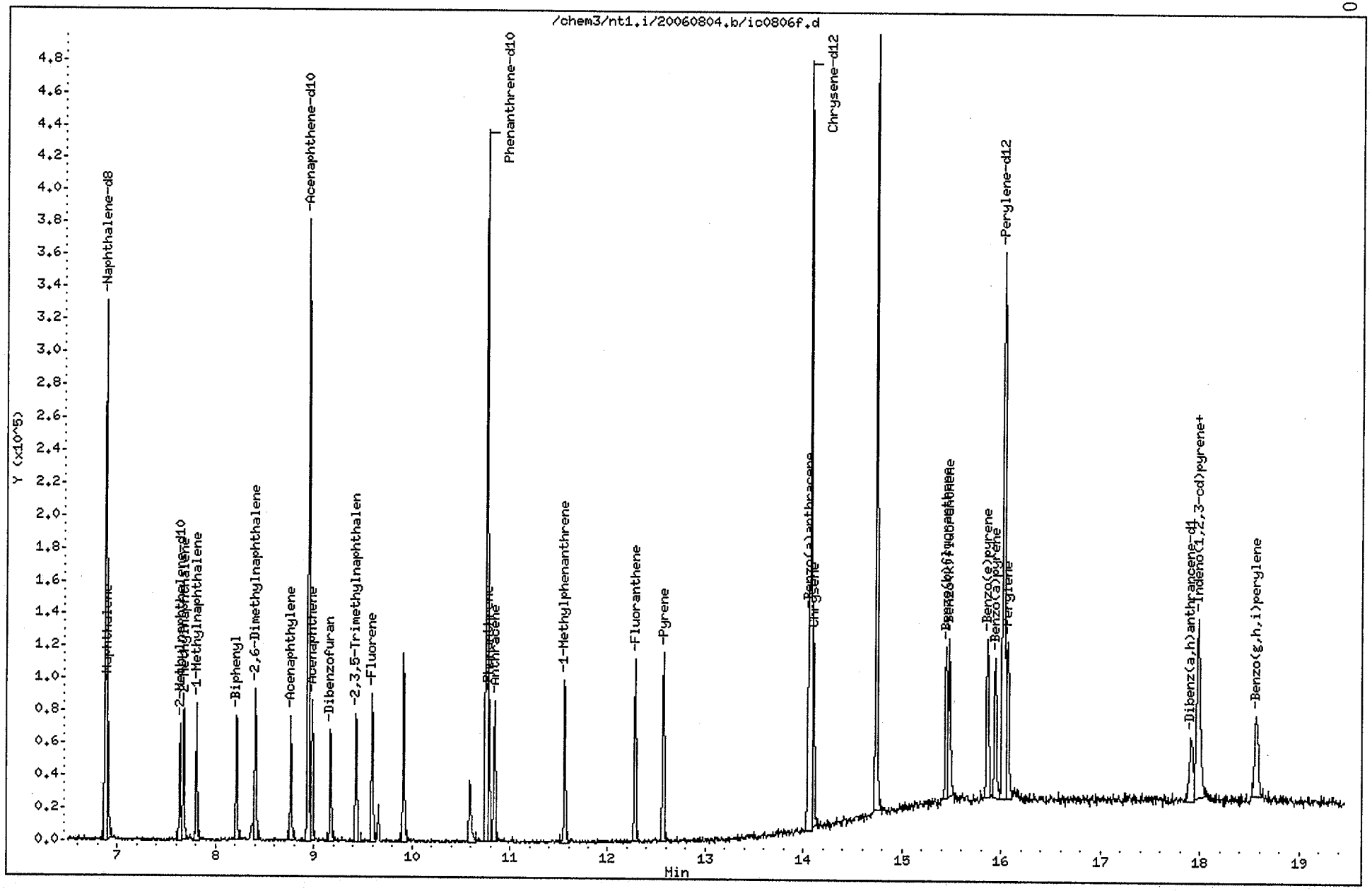
Data File: /chem3/nt1.i/20060804.b/ic0806f.d
Date : 04-AUG-2006 12:28
Client ID:
Sample Info: IC0803F

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0583



Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 8·10·2006 Analysis: SimpNA Analyst: VTS

GC Program: SimpNA Column No: 97876 Column Type: 2B-5

Instrument Tune (.U or .CT.): 1216.U EM Voltage: 1800

Calibration File: DF0810 Curve Date: 8·4·2006

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1409-1)(1416-02)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060810.b

	Time	Filename	LabID	ClientId	DF											
1	1308	df0810.d	DF0810		1	NO ISTDS FOUND										
2	1323	cc0810.d	CC0810		1	6.87	253209	8.94	122198	10.75	181565	14.05	143956	16.00	157395
3	1348	icv0810.d	ICV0810		1	6.87	230120	8.93	110612	10.74	164662	14.06	137716	16.00	146876
4	1413	jr96mb.d	JR96MBS1	JR96MBS1	1	6.87	301648	8.94	140733	10.74	216704	14.05	173072	16.00	168133
5	1438	jr96sb.d	JR96LCSS1	JR96LCSS1	1	6.87	241548	8.93	116346	10.74	176458	14.06	142049	16.00	143766
6	1502	jr96sbd.d	JR96LCSDS1	JR96LCSDS1	1	6.87	229261	8.93	109671	10.74	165836	14.05	132048	16.00	131144
7	1527	jr96a.d	JR96A Gun Club-1-060804		1	6.87	268597	8.93	128590	10.74	184360	14.06	143426	16.00	148361
8	1552	jr96b.d	JR96B Gun Club-2-060804		1	6.87	261072	8.93	128045	10.74	185652	14.06	152418	16.00	148662
9	1617	jr96c.d	JR96C Gun Club-3-060804		1	6.87	257918	8.93	128468	10.74	183380	14.06	171873	16.01	187922
10	1642	jr96d.d	JR96D Gun Club-C-060804		1	6.87	267202	8.93	126123	10.75	189804	14.07	194349	16.03	203611
11	1706	jq36edl.d	JQ36EDL	T4-S3-04-A	20	6.87	267048	8.94	128258	10.74	196888	14.06	187234	16.00	228685
12	1731	jq36f.d	JQ36F	T4-S3-04-B	1	6.87	311331	8.93	158607	10.75	240342	14.06	211477	16.01	236532
13	1756	jq36g.d	JQ36G	T4-S3-04-C	1	6.87	289236	8.93	146350	10.75	226319	14.06	191972	16.01	220413
14	1821	jq36h.d	JQ36H	T4-S3-04-D	1	6.87	281207	8.93	139188	10.75	210504	14.06	182315	16.00	211835
15	1845	jq36i.d	JQ36I	T4-WB-01	1	6.87	282183	8.94	141073	10.75	214898	14.06	207156	16.02	228634
16	1910	jq36j.d	JQ36J	T4-WB-02	1	6.87	300486	8.93	149361	10.75	228372	14.06	218919	16.01	227488
17	1935	jq36k.d	JQ36K	T4-WB-03	1	6.87	291689	8.93	148728	10.75	228935	14.06	221757	16.01	231164
18	2000	jq36l.d	JQ36L	T4-WB-04	1	6.87	280878	8.93	145849	10.75	222223	14.06	218134	16.01	226726
19	2024	jq35mbr.d	JQ35MBS2	JQ35MBS2	1	6.87	254449	8.93	122720	10.74	185475	14.06	162567	16.00	171882
20	2049	jq35sbr.d	JQ35LCSS2	JQ35LCSS2	1	6.87	257958	8.94	124932	10.74	181087	14.06	157919	16.00	166898
21	2114	jq35ire.d	JQ35I	T4-S3-05-F	10	6.87	221931	8.94	107051	10.74	161206	14.06	161363	16.00	170272

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0816

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

VTS 8.11.2006

Data File: /chem3/nt1.i/20060810.b/df0810.d

Date : 10-AUG-2006 13:08

Client ID:

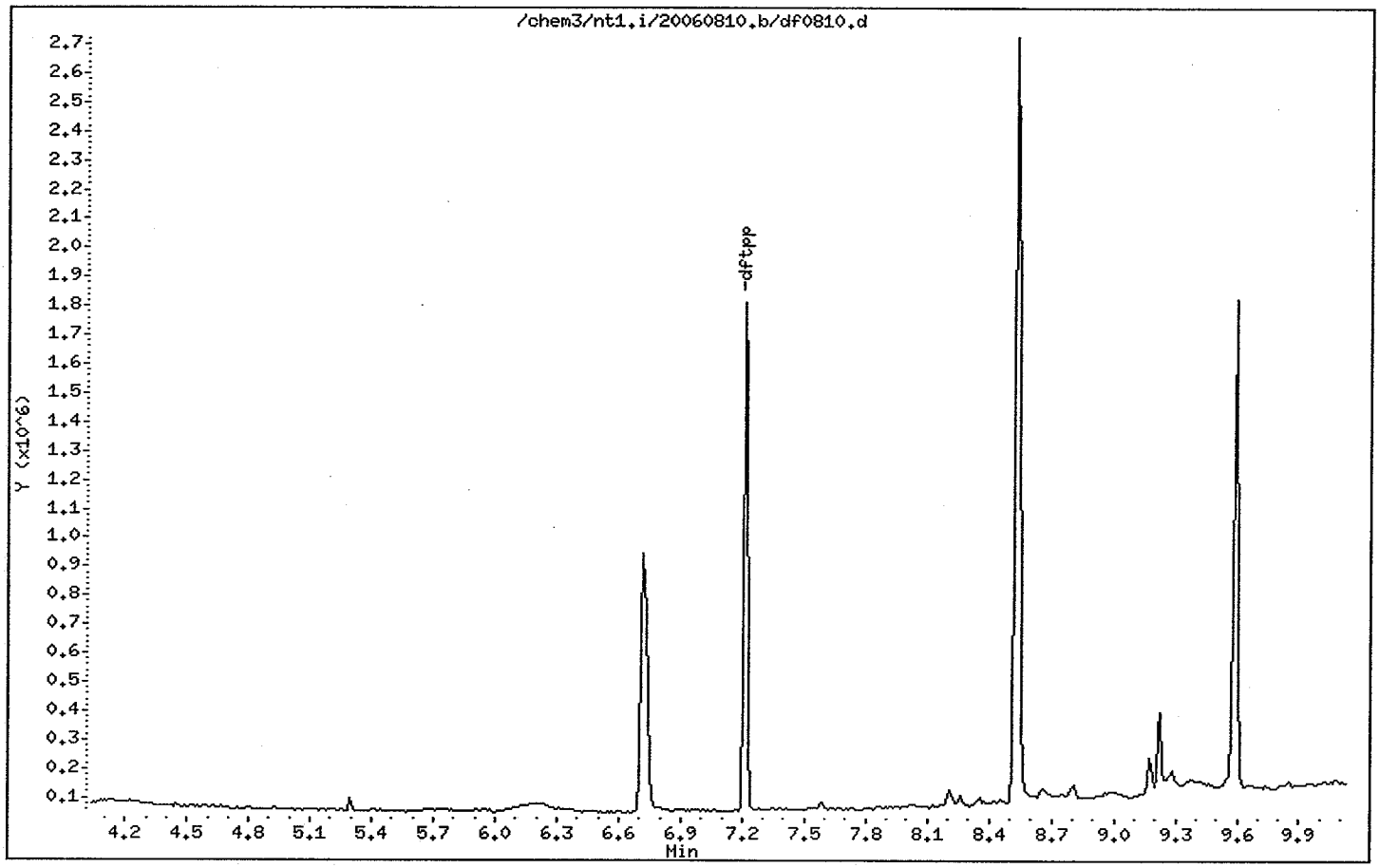
Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060810.b/df0810.d

Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

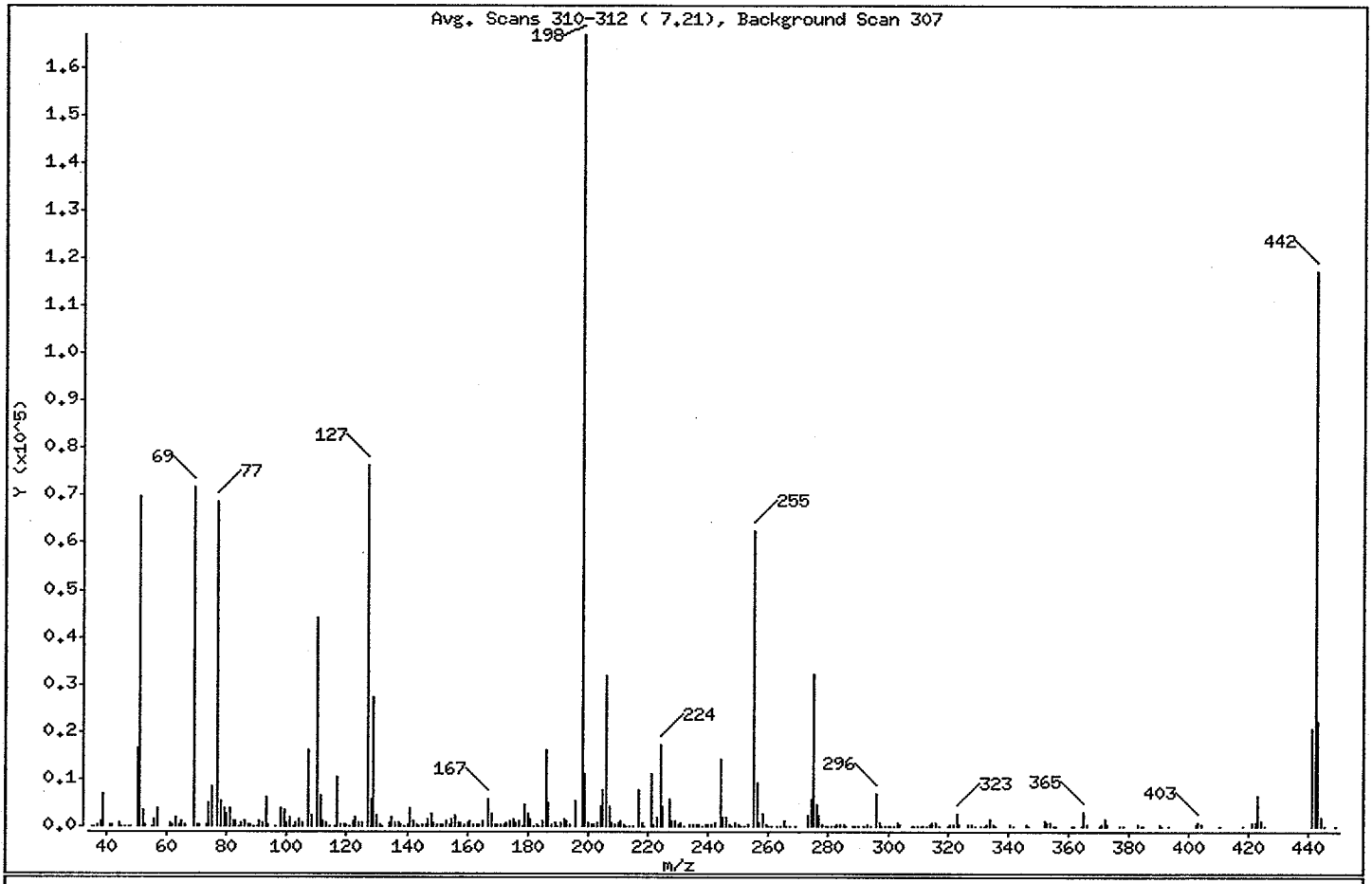
Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

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	41.73
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.91
70	Less than 2.00% of mass 69	0.32 (0.74)
127	25.00 - 75.00% of mass 198	45.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	19.35
365	Greater than 0.75% of mass 198	1.83
441	Present, but less than mass 443	12.51
442	40.00 - 110.00% of mass 198	70.22
443	15.00 - 24.00% of mass 442	13.34 (19.00)

Data File: /chem3/nt1.i/20060810.b/df0810.d

Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0810.d
Spectrum: Avg. Scans 310-312 (7.21), Background Scan 307
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	98	128.00	5803	208.00	888	298.00	43
36.00	52	129.00	27200	209.00	266	299.00	58
37.00	319	130.00	2360	210.00	860	300.00	37
38.00	991	131.00	416	211.00	1314	301.00	154
39.00	6882	132.00	40	212.00	212	302.00	60
41.00	290	134.00	691	213.00	149	303.00	814
42.00	319	135.00	1946	214.00	85	304.00	268
44.00	717	136.00	825	215.00	166	308.00	156
45.00	153	137.00	827	217.00	7819	309.00	92
46.00	115	138.00	327	218.00	865	310.00	107
47.00	3	139.00	106	219.00	38	311.00	47
48.00	47	140.00	352	221.00	11248	312.00	40
50.00	16472	141.00	3765	222.00	526	313.00	38
51.00	69592	142.00	1062	223.00	1822	314.00	365
52.00	3635	143.00	566	224.00	17296	315.00	728
53.00	234	144.00	180	225.00	4055	316.00	576
55.00	173	145.00	304	227.00	5726	317.00	62
56.00	1685	146.00	308	228.00	1036	320.00	56
57.00	3722	147.00	1424	229.00	1216	321.00	332
61.00	793	148.00	2805	230.00	238	322.00	242
62.00	460	149.00	864	231.00	791	323.00	2863
63.00	2020	150.00	399	232.00	177	324.00	445
64.00	199	151.00	508	234.00	470	327.00	527
65.00	1010	152.00	197	235.00	501	328.00	320
66.00	384	153.00	1020	236.00	336	329.00	92
69.00	71544	154.00	525	237.00	410	331.00	35
70.00	531	155.00	1533	238.00	6	332.00	124
71.00	354	156.00	2436	239.00	441	333.00	305
73.00	428	157.00	603	240.00	333	334.00	1522
74.00	5113	158.00	604	241.00	548	335.00	378
75.00	8347	159.00	435	242.00	729	336.00	128
77.00	68432	160.00	934	244.00	14009	341.00	352
78.00	5351	161.00	1329	245.00	1944	342.00	128
79.00	3771	162.00	284	246.00	2047	346.00	457
80.00	2668	163.00	225	247.00	238	347.00	162

Data File: /chem3/nt1.i/20060810.b/df0810.d

Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0810.d
Spectrum: Avg. Scans 310-312 (7.21), Background Scan 307
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	3966	164.00	201	248.00	112	352.00	1040
82.00	978	165.00	1100	249.00	597	353.00	759
83.00	992	167.00	5837	250.00	247	354.00	724
84.00	175	168.00	2718	251.00	152	355.00	174
85.00	779	169.00	486	252.00	129	356.00	36
86.00	1316	170.00	277	253.00	379	361.00	34
87.00	421	171.00	268	255.00	62504	362.00	41
88.00	277	172.00	512	256.00	9077	364.00	89
89.00	140	173.00	633	257.00	827	365.00	3056
90.00	37	174.00	1180	258.00	2646	366.00	375
91.00	1070	175.00	1711	259.00	523	370.00	40
92.00	874	176.00	867	260.00	30	371.00	225
93.00	6164	177.00	1031	261.00	102	372.00	1675
94.00	414	178.00	113	263.00	60	373.00	407
96.00	169	179.00	4611	264.00	153	377.00	40
98.00	3956	180.00	2752	265.00	1340	378.00	50
99.00	3447	181.00	1518	266.00	38	383.00	343
100.00	613	182.00	120	267.00	153	384.00	146
101.00	1996	183.00	348	269.00	112	385.00	38
102.00	176	184.00	52	273.00	2174	390.00	200
103.00	843	185.00	968	274.00	5598	391.00	169
104.00	1584	186.00	16080	275.00	32264	393.00	49
105.00	950	187.00	4997	276.00	4424	402.00	518
107.00	16066	188.00	473	277.00	2170	403.00	825
108.00	2370	189.00	680	278.00	405	404.00	293
110.00	44248	190.00	134	279.00	58	410.00	68
111.00	6597	191.00	649	280.00	84	418.00	40
112.00	988	192.00	1535	281.00	165	421.00	695
113.00	598	193.00	1261	282.00	51	422.00	858
114.00	140	194.00	327	283.00	265	423.00	6455
116.00	143	196.00	5444	284.00	231	424.00	1199
117.00	10341	198.00	166720	285.00	402	425.00	76
118.00	315	199.00	11234	286.00	143	441.00	20864
119.00	540	200.00	932	288.00	114	442.00	117096
120.00	283	201.00	379	289.00	133	443.00	22248

Data File: /chem3/nt1.i/20060810.b/df0810.d

Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0810.d

Spectrum: Avg. Scans 310-312 (7.21), Background Scan 307

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	94	202.00	214	290.00	86	444.00	1940
122.00	1032	203.00	769	292.00	179	445.00	53
123.00	1797	204.00	4348	293.00	417	449.00	37
124.00	806	205.00	7645	294.00	120		
125.00	896	206.00	31816	296.00	6736		
127.00	76136	207.00	4081	297.00	811		

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/cc0810.d
Lab Smp Id: CC0810
Inj Date : 10-AUG-2006 13:23
Operator : VTS Inst ID: nt1.i
Smp Info : CC0810
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1	Naphthalene-d8	136	6.874	6.874	(1.000)	253209	2.00000	
	2	Naphthalene	128	6.898	6.898	(1.003)	298106	2.50000	2.360
$	3	2-Methylnaphthalene-d10	152	7.630	7.630	(1.110)	146034	2.50000	2.239
	4	2-Methylnaphthalene	142	7.666	7.666	(1.115)	168022	2.50000	2.246
	5	1-Methylnaphthalene	142	7.796	7.796	(1.134)	168254	2.50000	2.145
	7	Acenaphthylene	152	8.753	8.753	(0.979)	247823	2.50000	2.446
*	8	Acenaphthene-d10	164	8.937	8.937	(1.000)	122198	2.00000	
	9	Acenaphthene	153	8.972	8.972	(1.004)	143194	2.50000	2.387
	10	Dibenzofuran	168	9.161	9.161	(1.025)	205725	2.50000	2.328
	11	Fluorene	166	9.587	9.587	(1.073)	164339	2.50000	2.389
*	15	Phenanthrene-d10	188	10.745	10.745	(1.000)	181565	2.00000	
	16	Phenanthrene	178	10.775	10.775	(1.003)	221931	2.50000	2.381
	17	Anthracene	178	10.828	10.828	(1.008)	221577	2.50000	2.379
	19	Fluoranthene	202	12.270	12.270	(1.142)	217386	2.50000	2.287
	20	Pyrene	202	12.554	12.554	(0.893)	232447	2.50000	2.515
	22	Benzo(a)anthracene	228	14.037	14.037	(0.999)	204443	2.50000	2.358
*	23	Chrysene-d12	240	14.055	14.055	(1.000)	143956	2.00000	
	24	Chrysene	228	14.090	14.090	(1.003)	189968	2.50000	2.376
	28	Benzo(b)fluoranthene	252	15.426	15.426	(0.964)	199182	2.50000	2.242
	29	Benzo(k)fluoranthene	252	15.455	15.455	(0.966)	242053	2.50000	2.556
	30	Benzo(a)pyrene	252	15.916	15.916	(0.995)	191245	2.50000	2.209
*	31	Perylene-d12	264	15.999	15.999	(1.000)	157395	2.00000	
	33	Indeno(1,2,3-cd)pyrene	276	17.949	17.949	(1.122)	248571	2.50000	2.497
$	32	Dibenz(a,h)anthrancene-d14	292	17.873	17.873	(1.117)	154335	2.50000	2.562
	34	Dibenz(a,h)anthracene	278	17.944	17.944	(1.122)	202062	2.50000	2.485
	35	Benzo(g,h,i)perylene	276	18.529	18.529	(1.158)	220622	2.50000	2.666
	48	Biphenyl	154	8.204	8.204	(0.918)	178613	2.50000	2.366

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.399	8.399	(0.940)	139232	2.50000	2.341
50 2,3,5-Trimethylnaphthalene	170	9.421	9.421	(1.054)	113964	2.50000	2.340
51 1-Methylphenanthrene	192	11.549	11.549	(0.822)	157286	2.50000	2.669
52 Benzo(e)pyrene	252	15.840	15.840	(0.990)	222477	2.50000	2.322
53 Perylene	252	16.040	16.040	(1.003)	210282	2.50000	2.338

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0810.d
Lab Smp Id: CC0810
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info:

Calibration Date: 10-AUG-2006
Calibration Time: 13:23
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	253209	0.00
8 Acenaphthene-d10	122198	61099	244396	122198	0.00
15 Phenanthrene-d10	181565	90782	363130	181565	0.00
23 Chrysene-d12	143956	71978	287912	143956	0.00
31 Perylene-d12	157395	78698	314790	157395	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	0.00
8 Acenaphthene-d10	8.94	8.44	9.44	8.94	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.05	13.55	14.55	14.05	0.00
31 Perylene-d12	16.00	15.50	16.50	16.00	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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0810.d
Analysis Type:
Lab Sample ID: CC0810
Method: /chem3/nt1.i/20060810.b/simpna.m

Injection Date: 10-AUG-2006 13:23
Init. Cal. Date(s): 04-AUG-2006 04-AUG-2006
Init. Cal. Times: 10:25 12:28
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.99759	0.94185	0.010	5.58766	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.51514	0.46139	0.010	10.43408	20.00000	Averaged
4 2-Methylnaphthalene	0.59078	0.53086	0.010	10.14351	20.00000	Averaged
5 1-Methylnaphthalene	0.61969	0.53159	0.010	14.21758	20.00000	Averaged
7 Acenaphthylene	1.65817	1.62244	0.010	2.15529	20.00000	Averaged
9 Acenaphthene	0.98203	0.93746	0.010	4.53918	20.00000	Averaged
10 Dibenzofuran	1.44651	1.34683	0.010	6.89112	20.00000	Averaged
11 Fluorene	1.12609	1.07589	0.010	4.45785	20.00000	Averaged
16 Phenanthrene	1.02657	0.97786	0.010	4.74497	20.00000	Averaged
17 Anthracene	1.02589	0.97630	0.010	4.83365	20.00000	Averaged
19 Fluoranthene	1.04707	0.95783	0.010	8.52295	20.00000	Averaged
20 Pyrene	1.28426	1.29177	0.010	-0.58473	20.00000	Averaged
22 Benzo(a)anthracene	1.20437	1.13614	0.010	5.66516	20.00000	Averaged
24 Chrysene	1.11086	1.05570	0.010	4.96535	20.00000	Averaged
28 Benzo(b)fluoranthene	1.12875	1.01239	0.010	10.30874	20.00000	Averaged
29 Benzo(k)fluoranthene	1.20336	1.23030	0.010	-2.23849	20.00000	Averaged
30 Benzo(a)pyrene	1.09986	0.97205	0.010	11.62046	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.26484	1.26343	0.010	0.11166	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.76539	0.78445	0.010	-2.48915	20.00000	Averaged
34 Dibenz(a,h)anthracene	1.03328	1.02703	0.010	0.60516	20.00000	Averaged
35 Benzo(g,h,i)perylene	1.05141	1.12137	0.010	-6.65415	20.00000	Averaged
48 Biphenyl	1.23570	1.16934	0.010	5.37087	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.97325	0.91152	0.010	6.34276	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.79717	0.74609	0.010	6.40762	20.00000	Averaged
51 1-Methylphenanthrene	0.81867	0.87408	0.010	-6.76844	20.00000	Averaged
52 Benzo(e)pyrene	1.21746	1.13080	0.010	7.11814	20.00000	Averaged
53 Perylene	1.14310	1.06881	0.010	6.49919	20.00000	Averaged

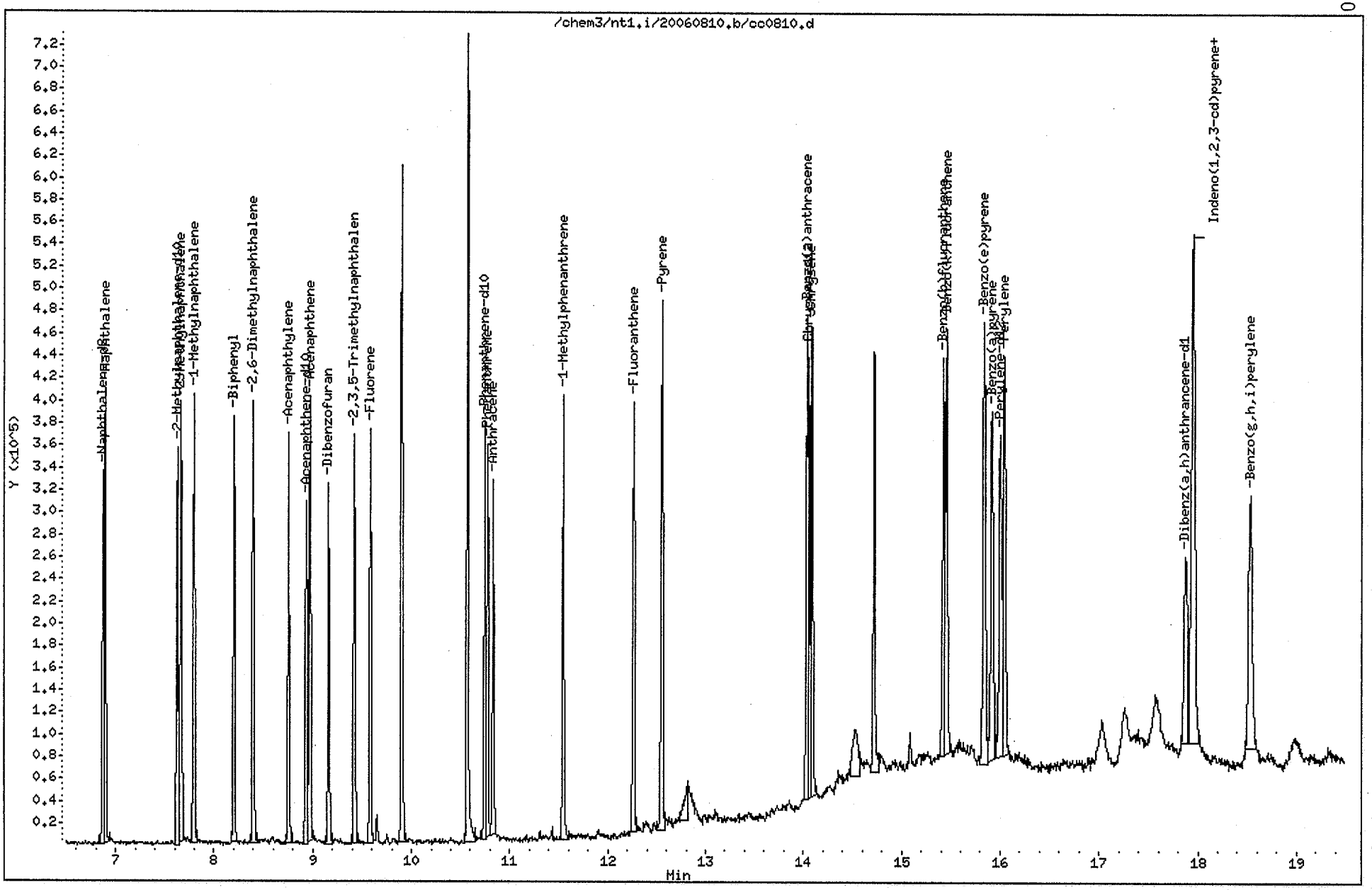
Data File: /chem3/nt1.i/20060810.b/cc0810.d
Date : 10-AUG-2006 13:23
Client ID:
Sample Info: CC0810

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

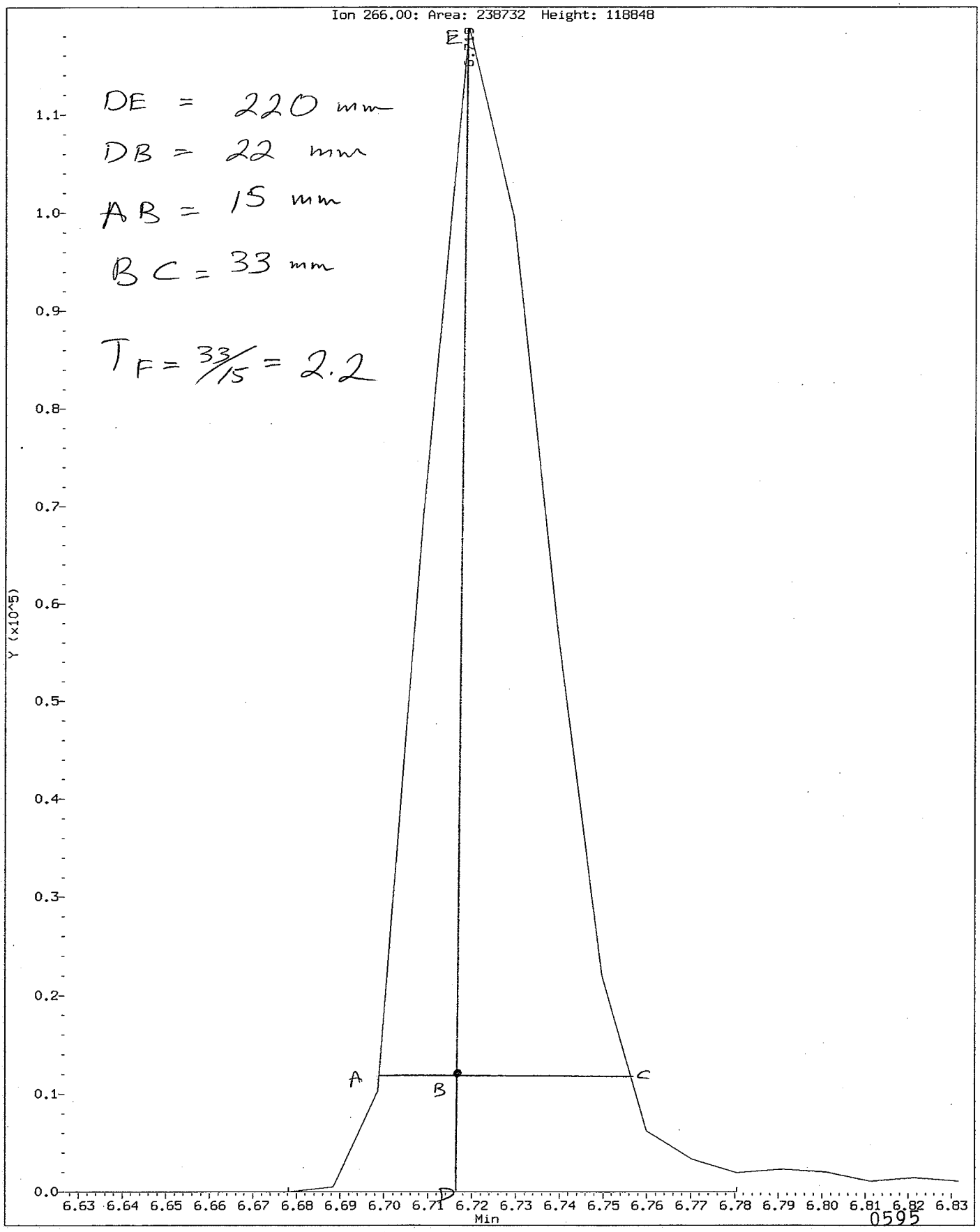
Column phase: ZB-5

0594



Data File: /chem3/nt1.i/20060810.b/ddt.b/df0810.d
Injection Date: 10-AUG-2006 13:08
Instrument: nt1.i
Client Sample ID:

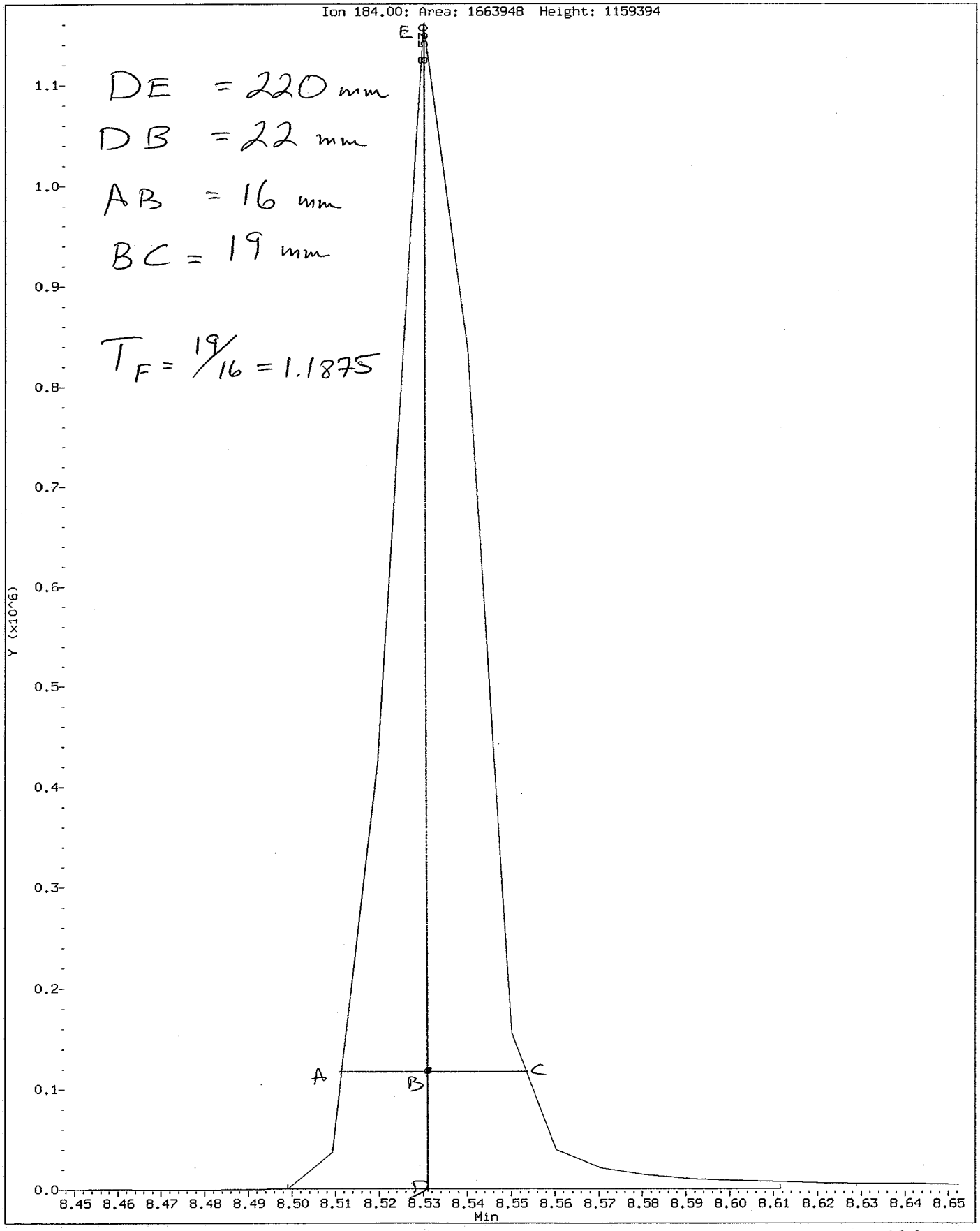
Compound: Pentachlorophenol
CAS Number: 87-86-5



0595

Data File: /chem3/nt1.i/20060810.b/ddt.b/df0810.d
Injection Date: 10-AUG-2006 13:08
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



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

Data file: /chem3/nt1.i/20060810.b/ddt.b/df0810.d ARI ID: DF0810
Method: /chem3/nt1.i/20060810.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 10-AUG-2006 13:08 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.719	238732
Benzidine	8.530	1663948
4,4'-DDE	8.806	5639
4,4'-DDD	9.225	81106
4,4'-DDT	9.594	459393

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

$$\text{DDT Percent Breakdown} = \frac{(\ 5639 + 81106) * 100}{(\ 5639 + 81106 + 459393)}$$

DDT Percent Breakdown = 15.9 %

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/icv0810.d
Lab Smp Id: ICV0810
Inj Date : 10-AUG-2006 13:48
Operator : VTS Inst ID: nt1.i
Smp Info : ICV0810
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 1
Dil Factor: 1.00000 (1330-1)
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	6.872	6.874	(1.000)	230120	2.00000	
	2 Naphthalene	128	6.896	6.898	(1.003)	332850	2.89982	2.900
$	3 2-Methylnaphthalene-d10	152	7.629	7.630	(1.110)	169563	2.86078	2.861(R)
	4 2-Methylnaphthalene	142	7.664	7.666	(1.115)	193173	2.84181	2.842
	5 1-Methylnaphthalene	142	7.800	7.796	(1.135)	186664	2.61793	2.618
	7 Acenaphthylene	152	8.757	8.753	(0.980)	278653	3.03851	3.039
*	8 Acenaphthene-d10	164	8.935	8.937	(1.000)	110612	2.00000	
	9 Acenaphthene	153	8.970	8.972	(1.004)	158144	2.91176	2.912
	10 Dibenzofuran	168	9.159	9.161	(1.025)	234039	2.92546	2.925
	11 Fluorene	166	9.585	9.587	(1.073)	181997	2.92227	2.922
*	15 Phenanthrene-d10	188	10.743	10.745	(1.000)	164662	2.00000	
	16 Phenanthrene	178	10.773	10.775	(1.003)	249764	2.95514	2.955
	17 Anthracene	178	10.832	10.828	(1.008)	246503	2.91850	2.918
	19 Fluoranthene	202	12.268	12.270	(1.142)	248619	2.88399	2.884
	20 Pyrene	202	12.558	12.554	(0.893)	267067	3.02005	3.020
	22 Benzo(a)anthracene	228	14.035	14.037	(0.998)	238129	2.87143	2.871
*	23 Chrysene-d12	240	14.059	14.055	(1.000)	137716	2.00000	
	24 Chrysene	228	14.088	14.090	(1.002)	226304	2.95855	2.959
	28 Benzo(b)fluoranthene	252	15.424	15.426	(0.964)	250989	3.02785	3.028
	29 Benzo(k)fluoranthene	252	15.454	15.455	(0.966)	246463	2.78892	2.789
	30 Benzo(a)pyrene	252	15.914	15.916	(0.994)	218281	2.70245	2.702
*	31 Perylene-d12	264	16.003	15.999	(1.000)	146876	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.953	17.949	(1.122)	267701	2.88200	2.882
$	32 Dibenz(a,h)anthrancene-d14	292	17.877	17.873	(1.117)	126610	2.25248	2.252(R)
	34 Dibenz(a,h)anthracene	278	17.948	17.944	(1.121)	219928	2.89828	2.898
	35 Benzo(g,h,i)perylene	276	18.533	18.529	(1.158)	234498	3.03702	3.037
	48 Biphenyl	154	Compound Not Detected.					

12278

VTS
8.11.2006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
49 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
51 1-Methylphenanthrene	192	Compound Not Detected.					
52 Benzo(e)pyrene	252	Compound Not Detected.					
53 Perylene	252	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: icv0810.d
Lab Smp Id: ICV0810
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info:

Calibration Date: 10-AUG-2006
Calibration Time: 13:23

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	230120	-9.12
8 Acenaphthene-d10	122198	61099	244396	110612	-9.48
15 Phenanthrene-d10	181565	90782	363130	164662	-9.31
23 Chrysene-d12	143956	71978	287912	137716	-4.33
31 Perylene-d12	157395	78698	314790	146876	-6.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.03
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.74	-0.02
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.03
31 Perylene-d12	16.00	15.50	16.50	16.00	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: Client SDG: 20060810
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0810
Level: Operator: VTS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: pnalcss.spk Quant Type: ISTD
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info:

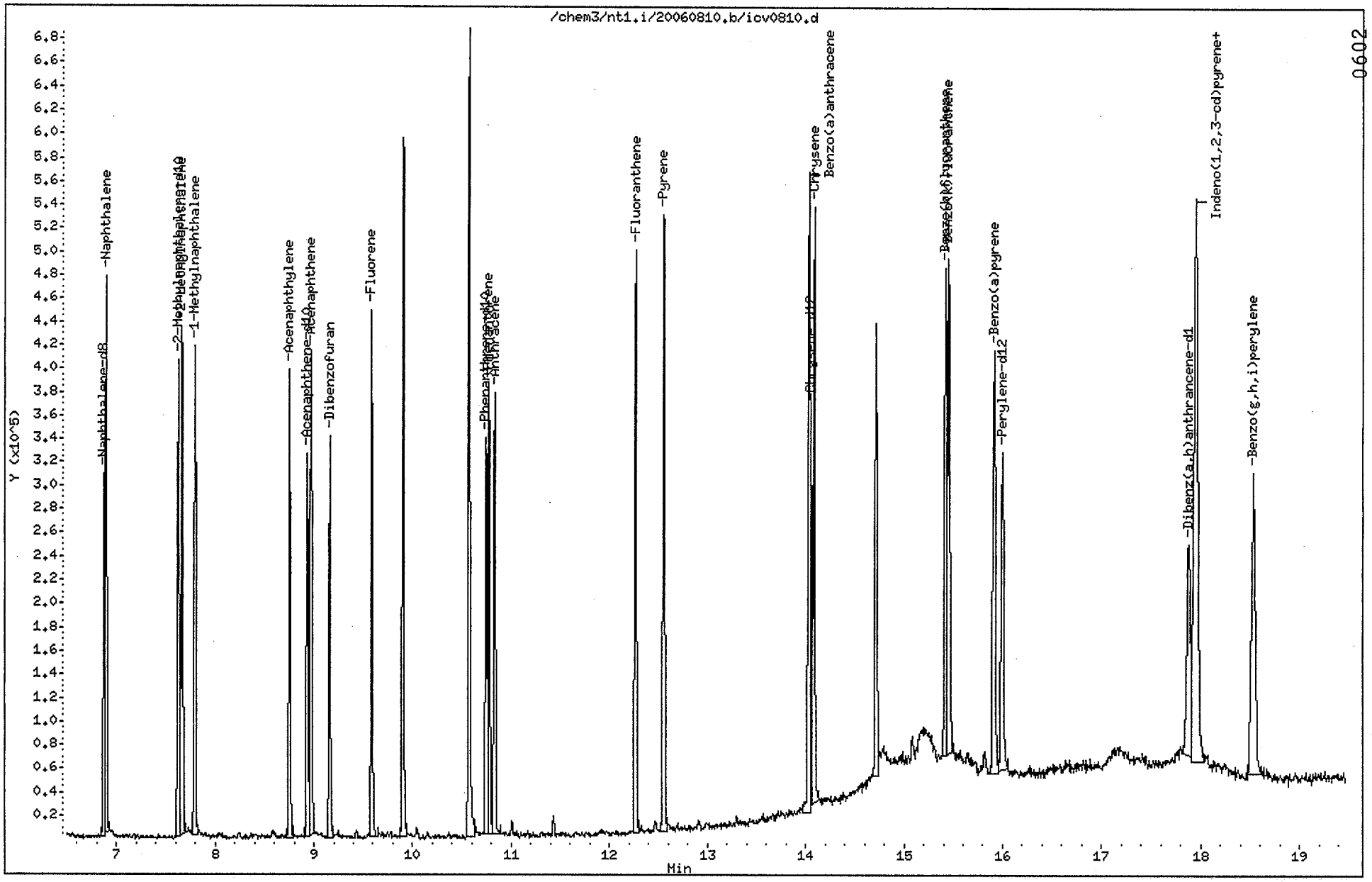
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	3.000	2.861	95.36	
$ 32 Dibenz(a,h)anthran	3.000	2.252	75.08	

Data File: /chem3/nt1.i/20060810.b/icv0810.d
Date : 10-AUG-2006 13:48
Client ID:
Sample Info: ICV0810

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Instrument ID: NT1 Cont. Calib. Date: 08/09/06

Init. Calib. Date: 08/04/06 Cont. Calib. Time: 0750

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.998	0.962	0.100	3.6	
2-Methylnaphthalene	0.591	0.528	0.100	10.6	
Acenaphthylene	1.658	1.610	0.100	2.9	
Acenaphthene	0.982	0.933	0.100	5.0	20.0
Dibenzofuran	1.446	1.349	0.100	6.7	
Fluorene	1.126	1.053	0.100	6.5	
Phenanthrene	1.027	0.990	0.100	3.6	
Anthracene	1.026	0.975	0.100	5.0	
Fluoranthene	1.047	0.927	0.100	11.5	20.0
Pyrene	1.284	1.350	0.100	-5.1	
Benzo(a)anthracene	1.204	1.127	0.100	6.4	
Chrysene	1.111	1.053	0.100	5.2	
Benzo(b)fluoranthene	1.128	1.066	0.100	5.5	
Benzo(k)fluoranthene	1.203	1.148	0.100	4.6	
Benzo(a)pyrene	1.100	0.970	0.100	11.8	20.0
Indeno(1,2,3-cd)pyrene	1.265	1.346	0.100	-6.4	
Dibenz(a,h)anthracene	1.033	1.093	0.100	-5.8	
Benzo(g,h,i)perylene	1.051	1.216	0.100	-15.7	
1-Methylnaphthalene	0.620	0.560	0.100	9.7	
Biphenyl	1.236	1.185	0.100	4.1	
2,6-Dimethylnaphthalene	0.973	0.935	0.100	3.9	
2,3,5-Trimethylnaphthalene	0.797	0.742	0.100	6.9	
1-Methylphenanthrene	0.818	0.907	0.100	-10.9	
Benzo(e)pyrene	1.217	1.152	0.100	5.3	
Perylene	1.143	1.064	0.100	6.9	
2-Methylnaphthalene-d10	0.515	0.479	0.100	7.0	
Dibenz(a,h)anthrancene-d14	0.765	0.836	0.100	-9.3	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
Data file : /chem3/nt1.i/20060809.b/cc0809.d
Lab Smp Id: CC0809
Inj Date : 09-AUG-2006 07:50
Operator : VTS Inst ID: nt1.i
Smp Info : CC0809
Misc Info : CC0809
Comment : 1ul Injection
Method : /chem3/nt1.i/20060809.b/simpna.m
Meth Date : 09-Aug-2006 08:50 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.877	6.877	(1.000)	240084	2.00000	
	2 Naphthalene	128	6.901	6.901	(1.003)	288873	2.50000	2.412
$	3 2-Methylnaphthalene-d10	152	7.634	7.634	(1.110)	143679	2.50000	2.323
	4 2-Methylnaphthalene	142	7.669	7.669	(1.115)	158430	2.50000	2.234
	5 1-Methylnaphthalene	142	7.799	7.799	(1.134)	167922	2.50000	2.257
	7 Acenaphthylene	152	8.757	8.757	(0.980)	237106	2.50000	2.428
*	8 Acenaphthene-d10	164	8.934	8.934	(1.000)	117778	2.00000	
	9 Acenaphthene	153	8.975	8.975	(1.005)	137394	2.50000	2.376
	10 Dibenzofuran	168	9.164	9.164	(1.026)	198591	2.50000	2.331
	11 Fluorene	166	9.590	9.590	(1.073)	155080	2.50000	2.339
*	15 Phenanthrene-d10	188	10.748	10.748	(1.000)	165702	2.00000	
	16 Phenanthrene	178	10.778	10.778	(1.003)	205150	2.50000	2.412
	17 Anthracene	178	10.837	10.837	(1.008)	202034	2.50000	2.377
	19 Fluoranthene	202	12.273	12.273	(1.142)	192041	2.50000	2.214
	20 Pyrene	202	12.557	12.557	(0.893)	203035	2.50000	2.627
	22 Benzo(a)anthracene	228	14.040	14.040	(0.999)	169504	2.50000	2.339
*	23 Chrysene-d12	240	14.058	14.058	(1.000)	120342	2.00000	
	24 Chrysene	228	14.093	14.093	(1.003)	158468	2.50000	2.371
	28 Benzo(b)fluoranthene	252	15.429	15.429	(0.964)	179661	2.50000	2.360
	29 Benzo(k)fluoranthene	252	15.459	15.459	(0.966)	193621	2.50000	2.386
	30 Benzo(a)pyrene	252	15.926	15.926	(0.995)	163556	2.50000	2.205
*	31 Perylene-d12	264	16.008	16.008	(1.000)	134879	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.959	17.959	(1.122)	226892	2.50000	2.660
$	32 Dibenz(a,h)anthrancene-d14	292	17.888	17.888	(1.117)	141019	2.50000	2.732
	34 Dibenz(a,h)anthracene	278	17.959	17.959	(1.122)	184301	2.50000	2.645
	35 Benzo(g,h,i)perylene	276	18.544	18.544	(1.158)	205057	2.50000	2.892

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
48 Biphenyl	154	8.207	8.207	(0.919)	174446	2.50000	2.397
49 2,6-Dimethylnaphthalene	156	8.402	8.402	(0.940)	137685	2.50000	2.402
50 2,3,5-Trimethylnaphthalene	170	9.424	9.424	(1.055)	109305	2.50000	2.328
51 1-Methylphenanthrene	192	11.552	11.552	(0.822)	136446	2.50000	2.770
52 Benzo(e)pyrene	252	15.843	15.843	(0.990)	194318	2.50000	2.367
53 Perylene	252	16.050	16.050	(1.003)	179414	2.50000	2.327

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0809.d
Lab Smp Id: CC0809
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: CC0809

Calibration Date: 09-AUG-2006
Calibration Time: 07:50

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	240084	0.00
8 Acenaphthene-d10	117778	58889	235556	117778	0.00
15 Phenanthrene-d10	165702	82851	331404	165702	0.00
23 Chrysene-d12	120342	60171	240684	120342	0.00
31 Perylene-d12	134879	67440	269758	134879	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	0.00
8 Acenaphthene-d10	8.93	8.43	9.43	8.93	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.00
31 Perylene-d12	16.01	15.51	16.51	16.01	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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0809.d
Analysis Type:
Lab Sample ID: CC0809
Method: /chem3/nt1.i/20060809.b/simpna.m

Injection Date: 09-AUG-2006 07:50
Init. Cal. Date(s): 04-AUG-2006 04-AUG-2006
Init. Cal. Times: 10:25 12:28
Quant Type: ISTD

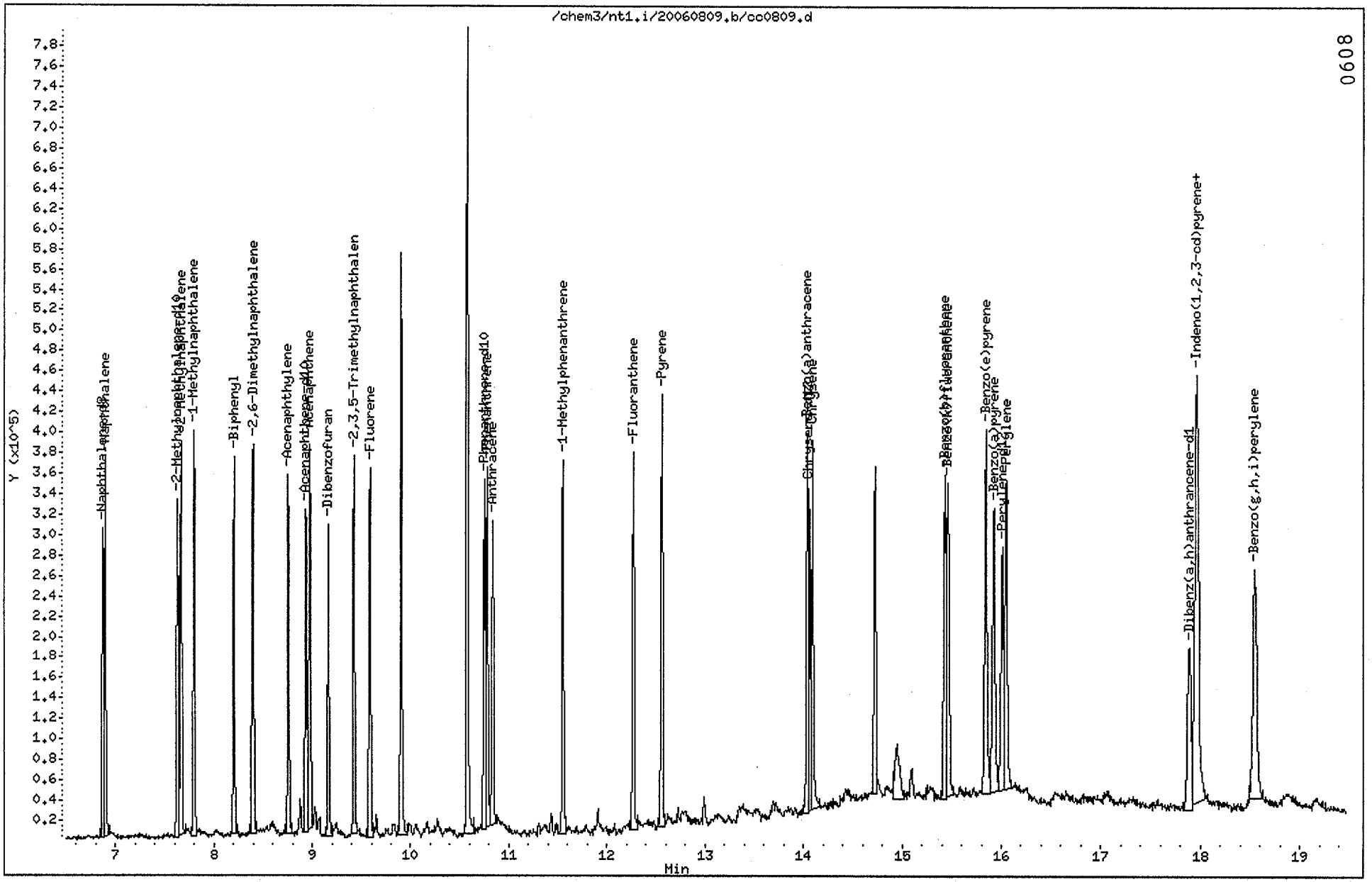
COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.99759	0.96257	0.010	3.51031	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.51514	0.47876	0.010	7.06100	20.00000	Averaged
4 2-Methylnaphthalene	0.59078	0.52792	0.010	10.64134	20.00000	Averaged
5 1-Methylnaphthalene	0.61969	0.55954	0.010	9.70652	20.00000	Averaged
7 Acenaphthylene	1.65817	1.61053	0.010	2.87340	20.00000	Averaged
9 Acenaphthene	0.98203	0.93324	0.010	4.96840	20.00000	Averaged
10 Dibenzofuran	1.44651	1.34892	0.010	6.74685	20.00000	Averaged
11 Fluorene	1.12609	1.05337	0.010	6.45726	20.00000	Averaged
16 Phenanthrene	1.02657	0.99045	0.010	3.51809	20.00000	Averaged
17 Anthracene	1.02589	0.97541	0.010	4.92035	20.00000	Averaged
19 Fluoranthene	1.04707	0.92716	0.010	11.45197	20.00000	Averaged
20 Pyrene	1.28426	1.34972	0.010	-5.09730	20.00000	Averaged
22 Benzo(a)anthracene	1.20437	1.12682	0.010	6.43953	20.00000	Averaged
24 Chrysene	1.11086	1.05345	0.010	5.16784	20.00000	Averaged
28 Benzo(b)fluoranthene	1.12875	1.06561	0.010	5.59381	20.00000	Averaged
29 Benzo(k)fluoranthene	1.20336	1.14841	0.010	4.56603	20.00000	Averaged
30 Benzo(a)pyrene	1.09986	0.97009	0.010	11.79876	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.26484	1.34575	0.010	-6.39717	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.76539	0.83642	0.010	-9.27924	20.00000	Averaged
34 Dibenz(a,h)anthracene	1.03328	1.09313	0.010	-5.79216	20.00000	Averaged
35 Benzo(g,h,i)perylene	1.05141	1.21624	0.010	-15.67783	20.00000	Averaged
48 Biphenyl	1.23570	1.18491	0.010	4.11013	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.97325	0.93522	0.010	3.90765	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.79717	0.74245	0.010	6.86504	20.00000	Averaged
51 1-Methylphenanthrene	0.81867	0.90705	0.010	-10.79653	20.00000	Averaged
52 Benzo(e)pyrene	1.21746	1.15255	0.010	5.33152	20.00000	Averaged
53 Perylene	1.14310	1.06415	0.010	6.90718	20.00000	Averaged

Data File: /chem3/nt1.i/20060809.b/cc0809.d
Date : 09-AUG-2006 07:50
Client ID:
Sample Info: CC0809

Instrument: nt1.i

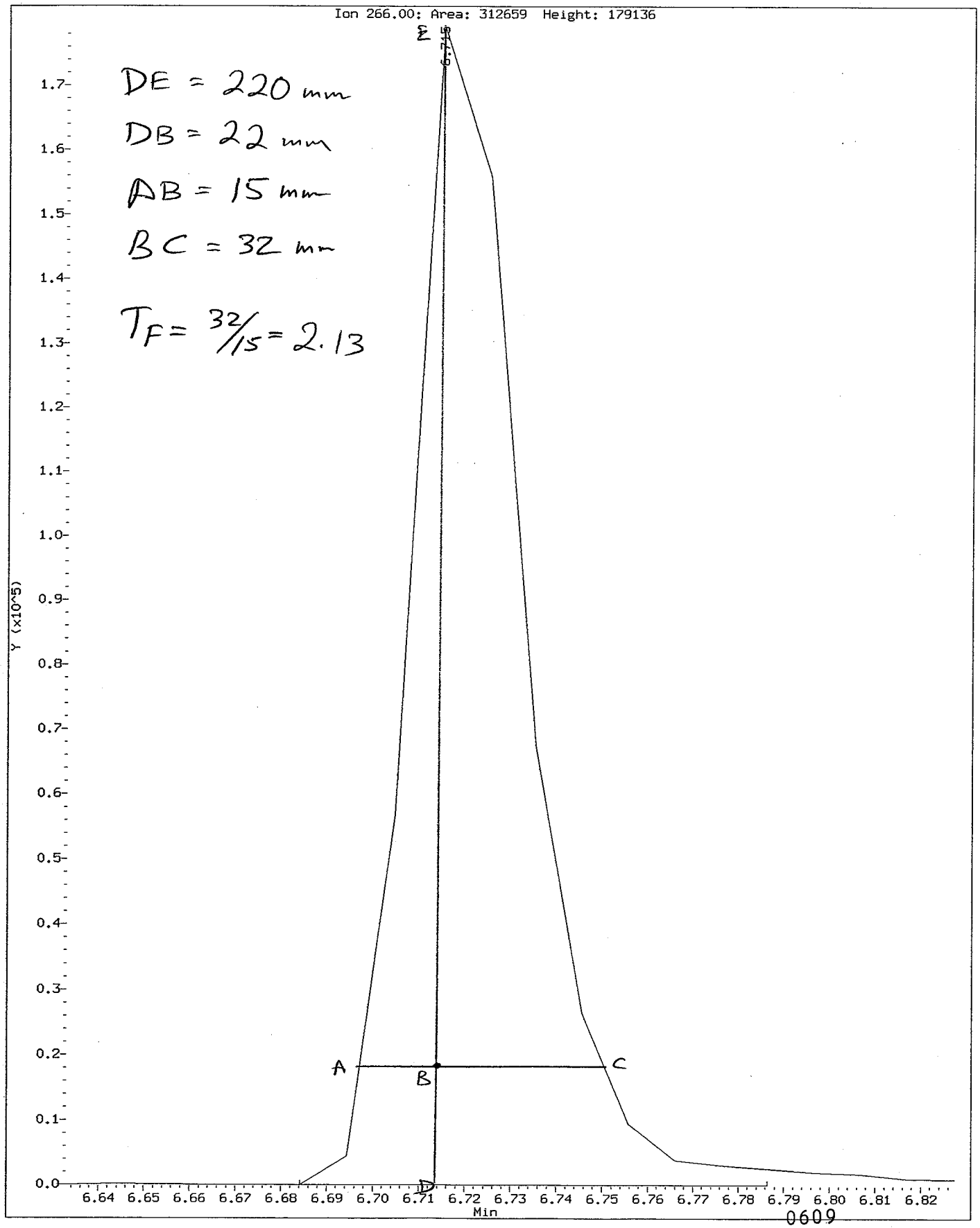
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



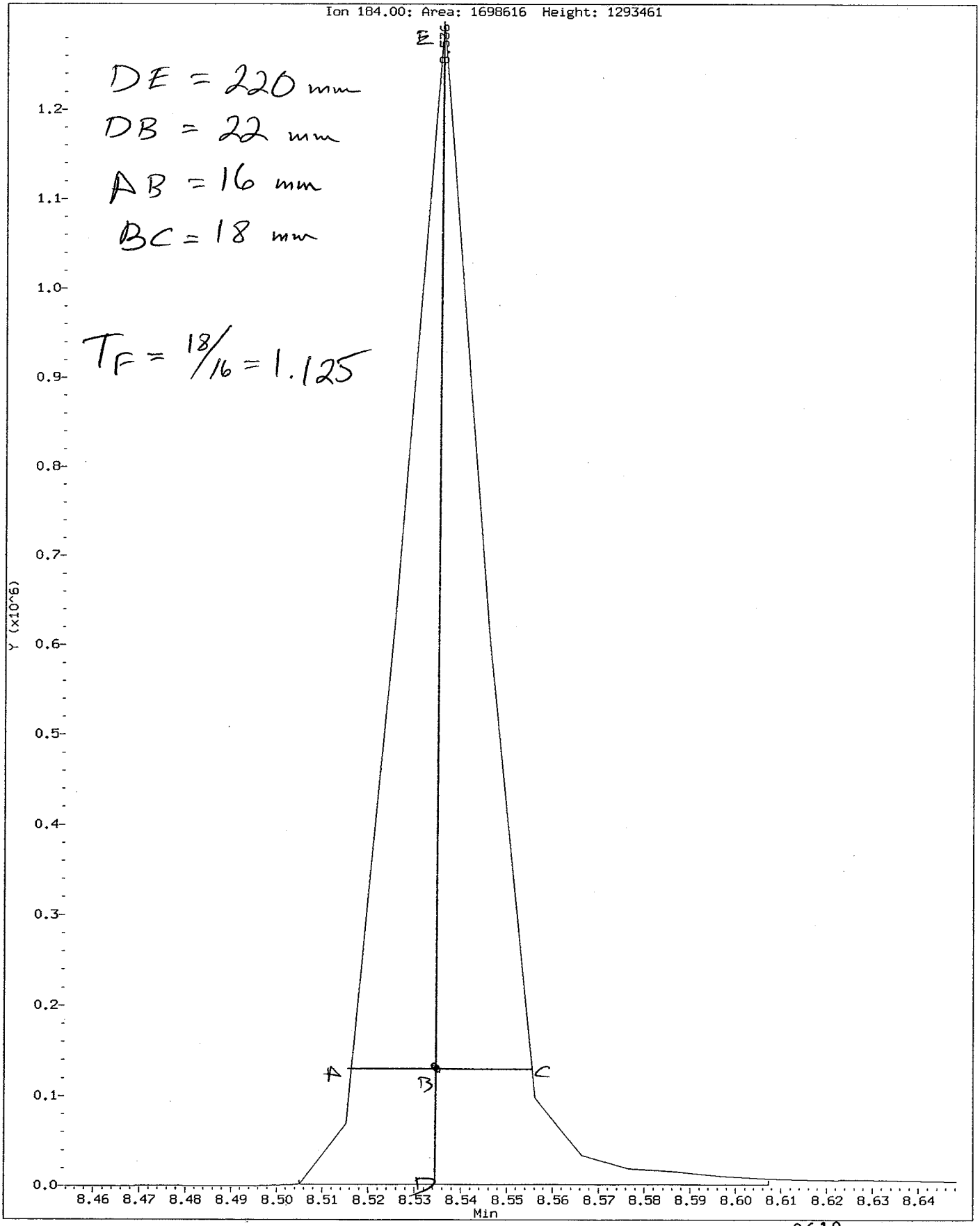
Data File: /chem3/nt1.i/20060809.b/ddt.b/df0809.d
Injection Date: 09-AUG-2006 07:32
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060809.b/ddt.b/df0809.d
Injection Date: 09-AUG-2006 07:32
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



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

Data file: /chem3/nt1.i/20060809.b/ddt.b/df0809.d ARI ID: DF0809
Method: /chem3/nt1.i/20060809.b/ddt.b/sw846ddt.m Misc: DF0809
Analysis Date: 09-AUG-2006 07:32 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.715	312659
Benzidine	8.536	1698616
4,4'-DDE	8.812	4802
4,4'-DDD	9.231	68925
4,4'-DDT	9.600	467714

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

$$\text{DDT Percent Breakdown} = \frac{(4802 + 68925) * 100}{(4802 + 68925 + 467714)}$$

DDT Percent Breakdown = 13.6 %

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Instrument ID: NT1 Cont. Calib. Date: 08/10/06

Init. Calib. Date: 08/04/06 Cont. Calib. Time: 1323

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.998	0.942	0.100	5.6	
2-Methylnaphthalene	0.591	0.531	0.100	10.2	
Acenaphthylene	1.658	1.622	0.100	2.2	
Acenaphthene	0.982	0.937	0.100	4.6	20.0
Dibenzofuran	1.446	1.347	0.100	6.8	
Fluorene	1.126	1.076	0.100	4.4	
Phenanthrene	1.027	0.978	0.100	4.8	
Anthracene	1.026	0.976	0.100	4.9	
Fluoranthene	1.047	0.958	0.100	8.5	20.0
Pyrene	1.284	1.292	0.100	-0.6	
Benzo(a)anthracene	1.204	1.136	0.100	5.6	
Chrysene	1.111	1.056	0.100	5.0	
Benzo(b)fluoranthene	1.128	1.012	0.100	10.3	
Benzo(k)fluoranthene	1.203	1.230	0.100	-2.2	
Benzo(a)pyrene	1.100	0.972	0.100	11.6	20.0
Indeno(1,2,3-cd)pyrene	1.265	1.263	0.100	0.2	
Dibenz(a,h)anthracene	1.033	1.027	0.100	0.6	
Benzo(g,h,i)perylene	1.051	1.121	0.100	-6.7	
1-Methylnaphthalene	0.620	0.532	0.100	14.2	
Biphenyl	1.236	1.169	0.100	5.4	
2,6-Dimethylnaphthalene	0.973	0.912	0.100	6.3	
2,3,5-Trimethylnaphthalene	0.797	0.746	0.100	6.4	
1-Methylphenanthrene	0.818	0.874	0.100	-6.8	
Benzo(e)pyrene	1.217	1.131	0.100	7.1	
Perylene	1.143	1.069	0.100	6.5	
2-Methylnaphthalene-d10	0.515	0.461	0.100	10.5	
Dibenz(a,h)anthrancene-d14	0.765	0.784	0.100	-2.5	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/cc0810.d
Lab Smp Id: CC0810
Inj Date : 10-AUG-2006 13:23
Operator : VTS Inst ID: nt1.i
Smp Info : CC0810
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20060810.b/simpna.m
Meth Date : 10-Aug-2006 14:25 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1	Naphthalene-d8	136	6.874	6.874	(1.000)	253209	2.00000	
	2	Naphthalene	128	6.898	6.898	(1.003)	298106	2.50000	2.360
$	3	2-Methylnaphthalene-d10	152	7.630	7.630	(1.110)	146034	2.50000	2.239
	4	2-Methylnaphthalene	142	7.666	7.666	(1.115)	168022	2.50000	2.246
	5	1-Methylnaphthalene	142	7.796	7.796	(1.134)	168254	2.50000	2.145
	7	Acenaphthylene	152	8.753	8.753	(0.979)	247823	2.50000	2.446
*	8	Acenaphthene-d10	164	8.937	8.937	(1.000)	122198	2.00000	
	9	Acenaphthene	153	8.972	8.972	(1.004)	143194	2.50000	2.387
	10	Dibenzofuran	168	9.161	9.161	(1.025)	205725	2.50000	2.328
	11	Fluorene	166	9.587	9.587	(1.073)	164339	2.50000	2.389
*	15	Phenanthrene-d10	188	10.745	10.745	(1.000)	181565	2.00000	
	16	Phenanthrene	178	10.775	10.775	(1.003)	221931	2.50000	2.381
	17	Anthracene	178	10.828	10.828	(1.008)	221577	2.50000	2.379
	19	Fluoranthene	202	12.270	12.270	(1.142)	217386	2.50000	2.287
	20	Pyrene	202	12.554	12.554	(0.893)	232447	2.50000	2.515
	22	Benzo(a)anthracene	228	14.037	14.037	(0.999)	204443	2.50000	2.358
*	23	Chrysene-d12	240	14.055	14.055	(1.000)	143956	2.00000	
	24	Chrysene	228	14.090	14.090	(1.003)	189968	2.50000	2.376
	28	Benzo(b)fluoranthene	252	15.426	15.426	(0.964)	199182	2.50000	2.242
	29	Benzo(k)fluoranthene	252	15.455	15.455	(0.966)	242053	2.50000	2.556
	30	Benzo(a)pyrene	252	15.916	15.916	(0.995)	191245	2.50000	2.209
*	31	Perylene-d12	264	15.999	15.999	(1.000)	157395	2.00000	
	33	Indeno(1,2,3-cd)pyrene	276	17.949	17.949	(1.122)	248571	2.50000	2.497
$	32	Dibenz(a,h)anthrancene-d14	292	17.873	17.873	(1.117)	154335	2.50000	2.562
	34	Dibenz(a,h)anthracene	278	17.944	17.944	(1.122)	202062	2.50000	2.485
	35	Benzo(g,h,i)perylene	276	18.529	18.529	(1.158)	220622	2.50000	2.666
	48	Biphenyl	154	8.204	8.204	(0.918)	178613	2.50000	2.366

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.399	8.399	(0.940)	139232	2.50000	2.341
50 2,3,5-Trimethylnaphthalene	170	9.421	9.421	(1.054)	113964	2.50000	2.340
51 1-Methylphenanthrene	192	11.549	11.549	(0.822)	157286	2.50000	2.669
52 Benzo(e)pyrene	252	15.840	15.840	(0.990)	222477	2.50000	2.322
53 Perylene	252	16.040	16.040	(1.003)	210282	2.50000	2.338

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0810.d
Lab Smp Id: CC0810
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info:

Calibration Date: 10-AUG-2006
Calibration Time: 13:23

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	253209	126604	506418	253209	0.00
8 Acenaphthene-d10	122198	61099	244396	122198	0.00
15 Phenanthrene-d10	181565	90782	363130	181565	0.00
23 Chrysene-d12	143956	71978	287912	143956	0.00
31 Perylene-d12	157395	78698	314790	157395	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.87	6.37	7.37	6.87	0.00
8 Acenaphthene-d10	8.94	8.44	9.44	8.94	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.05	13.55	14.55	14.05	0.00
31 Perylene-d12	16.00	15.50	16.50	16.00	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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0810.d
Analysis Type:
Lab Sample ID: CC0810
Method: /chem3/nt1.i/20060810.b/simpna.m

Injection Date: 10-AUG-2006 13:23
Init. Cal. Date(s): 04-AUG-2006 04-AUG-2006
Init. Cal. Times: 10:25 12:28
Quant Type: ISTD

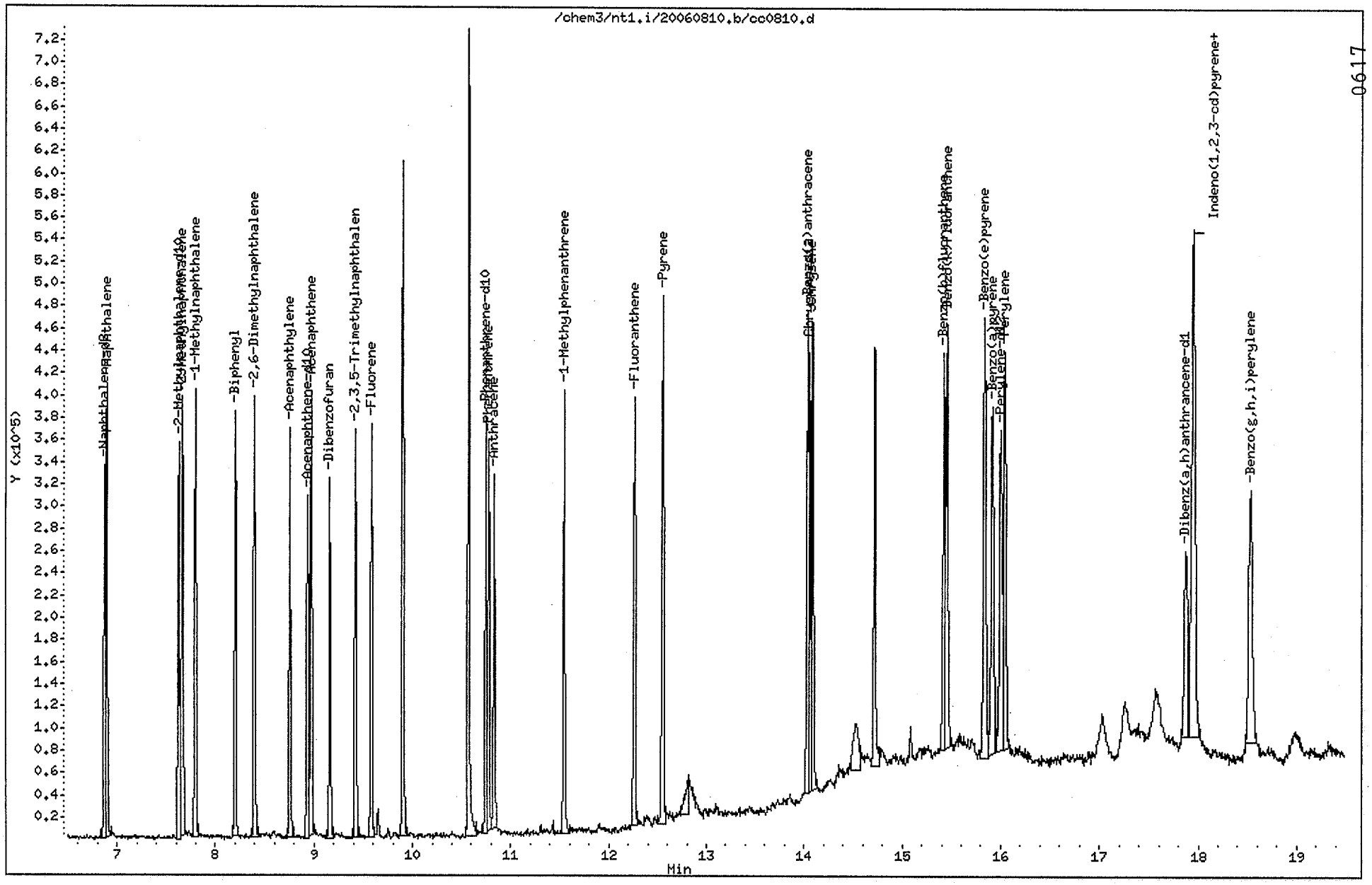
COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.99759	0.94185	0.010	5.58766	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.51514	0.46139	0.010	10.43408	20.00000	Averaged
4 2-Methylnaphthalene	0.59078	0.53086	0.010	10.14351	20.00000	Averaged
5 1-Methylnaphthalene	0.61969	0.53159	0.010	14.21758	20.00000	Averaged
7 Acenaphthylene	1.65817	1.62244	0.010	2.15529	20.00000	Averaged
9 Acenaphthene	0.98203	0.93746	0.010	4.53918	20.00000	Averaged
10 Dibenzofuran	1.44651	1.34683	0.010	6.89112	20.00000	Averaged
11 Fluorene	1.12609	1.07589	0.010	4.45785	20.00000	Averaged
16 Phenanthrene	1.02657	0.97786	0.010	4.74497	20.00000	Averaged
17 Anthracene	1.02589	0.97630	0.010	4.83365	20.00000	Averaged
19 Fluoranthene	1.04707	0.95783	0.010	8.52295	20.00000	Averaged
20 Pyrene	1.28426	1.29177	0.010	-0.58473	20.00000	Averaged
22 Benzo(a)anthracene	1.20437	1.13614	0.010	5.66516	20.00000	Averaged
24 Chrysene	1.11086	1.05570	0.010	4.96535	20.00000	Averaged
28 Benzo(b)fluoranthene	1.12875	1.01239	0.010	10.30874	20.00000	Averaged
29 Benzo(k)fluoranthene	1.20336	1.23030	0.010	-2.23849	20.00000	Averaged
30 Benzo(a)pyrene	1.09986	0.97205	0.010	11.62046	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.26484	1.26343	0.010	0.11166	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.76539	0.78445	0.010	-2.48915	20.00000	Averaged
34 Dibenz(a,h)anthracene	1.03328	1.02703	0.010	0.60516	20.00000	Averaged
35 Benzo(g,h,i)perylene	1.05141	1.12137	0.010	-6.65415	20.00000	Averaged
48 Biphenyl	1.23570	1.16934	0.010	5.37087	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.97325	0.91152	0.010	6.34276	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.79717	0.74609	0.010	6.40762	20.00000	Averaged
51 1-Methylphenanthrene	0.81867	0.87408	0.010	-6.76844	20.00000	Averaged
52 Benzo(e)pyrene	1.21746	1.13080	0.010	7.11814	20.00000	Averaged
53 Perylene	1.14310	1.06881	0.010	6.49919	20.00000	Averaged

Data File: /chem3/nt1.i/20060810.b/cc0810.d
Date : 10-AUG-2006 13:23
Client ID:
Sample Info: CC0810

Instrument: nt1.i

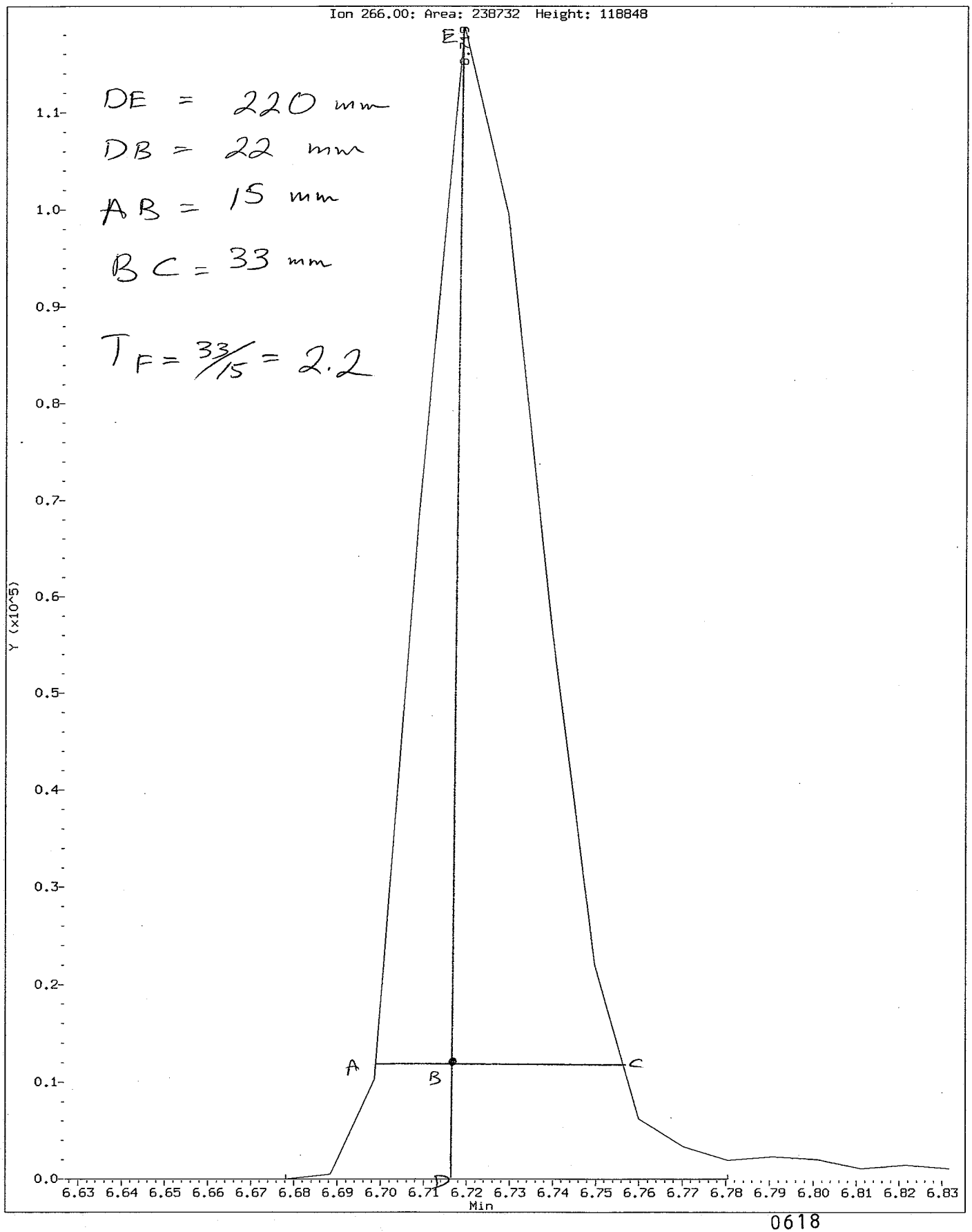
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



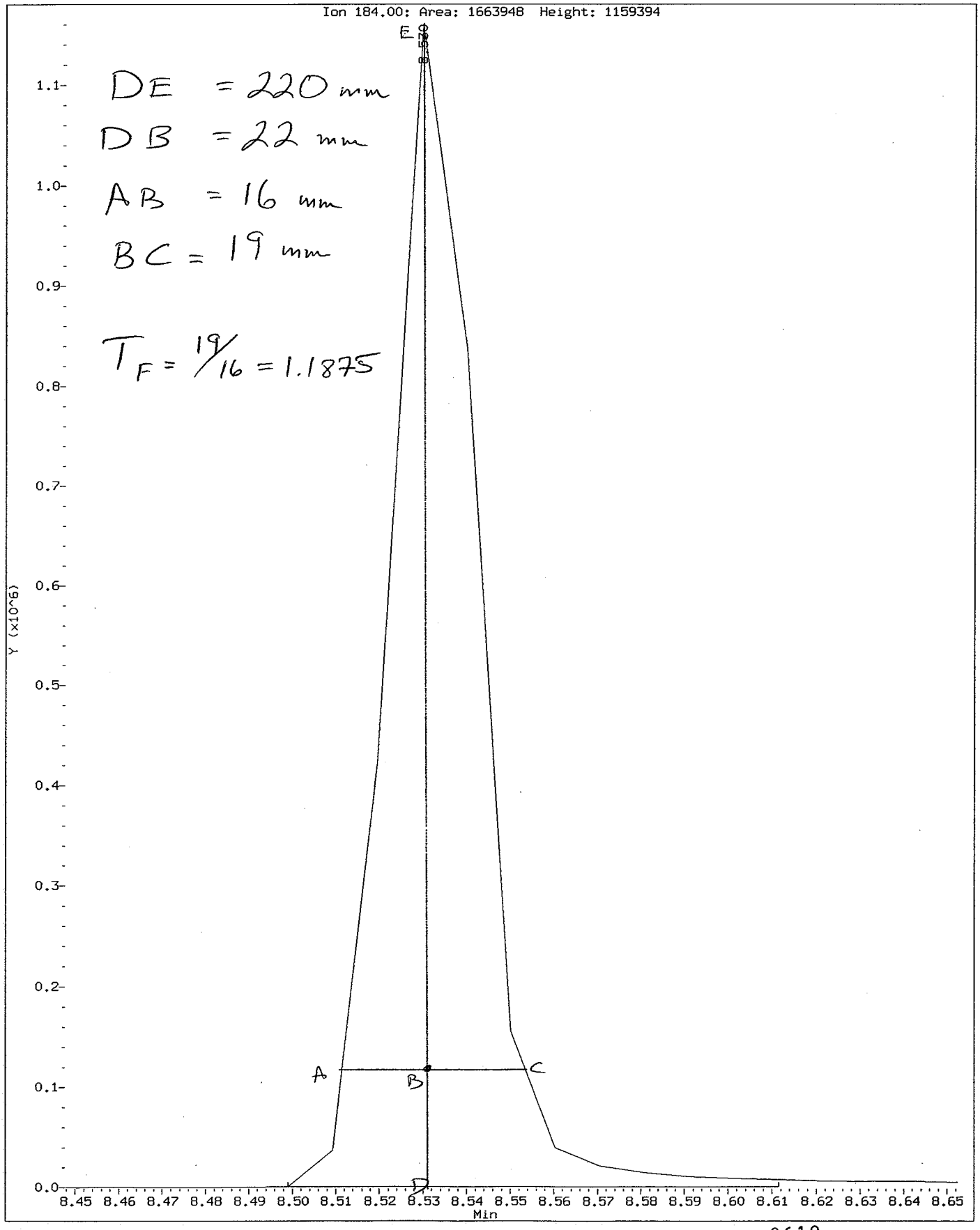
Data File: /chem3/nt1.i/20060810.b/ddt.b/df0810.d
Injection Date: 10-AUG-2006 13:08
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060810.b/ddt.b/df0810.d
Injection Date: 10-AUG-2006 13:08
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



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

Data file: /chem3/nt1.i/20060810.b/ddt.b/df0810.d ARI ID: DF0810
Method: /chem3/nt1.i/20060810.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 10-AUG-2006 13:08 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.719	238732
Benzidine	8.530	1663948
4,4'-DDE	8.806	5639
4,4'-DDD	9.225	81106
4,4'-DDT	9.594	459393

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

$$\text{DDT Percent Breakdown} = \frac{(\ 5639 + 81106) * 100}{(\ 5639 + 81106 + 459393)}$$

DDT Percent Breakdown = 15.9 %

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ36 Project: T4 EARLY ACTION

Instrument ID: NT1 Cont. Calib. Date: 08/14/06

Init. Calib. Date: 08/04/06 Cont. Calib. Time: 0813

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.998	0.975	0.100	2.3	
2-Methylnaphthalene	0.591	0.567	0.100	4.1	
Acenaphthylene	1.658	1.618	0.100	2.4	
Acenaphthene	0.982	0.930	0.100	5.3	20.0
Dibenzofuran	1.446	1.391	0.100	3.8	
Fluorene	1.126	1.102	0.100	2.1	
Phenanthrene	1.027	0.984	0.100	4.2	
Anthracene	1.026	1.003	0.100	2.2	
Fluoranthene	1.047	0.965	0.100	7.8	20.0
Pyrene	1.284	1.234	0.100	3.9	
Benzo(a)anthracene	1.204	1.090	0.100	9.5	
Chrysene	1.111	1.056	0.100	5.0	
Benzo(b)fluoranthene	1.128	1.109	0.100	1.7	
Benzo(k)fluoranthene	1.203	1.126	0.100	6.4	
Benzo(a)pyrene	1.100	0.986	0.100	10.4	20.0
Indeno(1,2,3-cd)pyrene	1.265	1.191	0.100	5.8	
Dibenz(a,h)anthracene	1.033	0.969	0.100	6.2	
Benzo(g,h,i)perylene	1.051	1.009	0.100	4.0	
1-Methylnaphthalene	0.620	0.583	0.100	6.0	
Biphenyl	1.236	1.160	0.100	6.1	
2,6-Dimethylnaphthalene	0.973	0.939	0.100	3.5	
2,3,5-Trimethylnaphthalene	0.797	0.743	0.100	6.8	
1-Methylphenanthrene	0.818	0.830	0.100	-1.5	
Benzo(e)pyrene	1.217	1.139	0.100	6.4	
Perylene	1.143	1.020	0.100	10.8	
2-Methylnaphthalene-d10	0.515	0.503	0.100	2.3	
Dibenz(a,h)anthrancene-d14	0.765	0.736	0.100	3.8	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060814.b/cc0814.d
Lab Smp Id: CC0814
Inj Date : 14-AUG-2006 08:13
Operator : VTS Inst ID: nt1.i
Smp Info : CC0814
Misc Info : DF0814
Comment : 1ul Injection
Method : /chem3/nt1.i/20060814.b/simpna.m
Meth Date : 14-Aug-2006 09:08 van Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.880	6.880	(1.000)	232064	2.00000	
	2 Naphthalene	128	6.898	6.898	(1.003)	282768	2.50000	2.443
$	3 2-Methylnaphthalene-d10	152	7.631	7.631	(1.109)	146031	2.50000	2.443
	4 2-Methylnaphthalene	142	7.672	7.672	(1.115)	164611	2.50000	2.401
	5 1-Methylnaphthalene	142	7.802	7.802	(1.134)	169219	2.50000	2.353
	7 Acenaphthylene	152	8.760	8.760	(0.980)	249705	2.50000	2.439
*	8 Acenaphthene-d10	164	8.937	8.937	(1.000)	123496	2.00000	
	9 Acenaphthene	153	8.973	8.973	(1.004)	143548	2.50000	2.367
	10 Dibenzofuran	168	9.162	9.162	(1.025)	214677	2.50000	2.403
	11 Fluorene	166	9.587	9.587	(1.073)	170170	2.50000	2.447
*	15 Phenanthrene-d10	188	10.746	10.746	(1.000)	190473	2.00000	
	16 Phenanthrene	178	10.775	10.775	(1.003)	234245	2.50000	2.396
	17 Anthracene	178	10.828	10.828	(1.008)	238730	2.50000	2.443
	19 Fluoranthene	202	12.264	12.264	(1.141)	229744	2.50000	2.304
	20 Pyrene	202	12.554	12.554	(0.893)	246634	2.50000	2.403
	22 Benzo(a)anthracene	228	14.032	14.032	(0.998)	217816	2.50000	2.263
*	23 Chrysene-d12	240	14.055	14.055	(1.000)	159839	2.00000	
	24 Chrysene	228	14.085	14.085	(1.002)	211077	2.50000	2.378
	28 Benzo(b)fluoranthene	252	15.421	15.421	(0.964)	225812	2.50000	2.457
	29 Benzo(k)fluoranthene	252	15.450	15.450	(0.966)	229287	2.50000	2.340
	30 Benzo(a)pyrene	252	15.917	15.917	(0.995)	200598	2.50000	2.240
*	31 Perylene-d12	264	16.000	16.000	(1.000)	162821	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.950	17.950	(1.122)	242383	2.50000	2.354
$	32 Dibenz(a,h)anthrancene-d14	292	17.873	17.873	(1.117)	149876	2.50000	2.405
	34 Dibenz(a,h)anthracene	278	17.944	17.944	(1.122)	197272	2.50000	2.345
	35 Benzo(g,h,i)perylene	276	18.529	18.529	(1.158)	205321	2.50000	2.399

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
48 Biphenyl	154	8.204	8.204	(0.918)	179035	2.50000	2.346
49 2,6-Dimethylnaphthalene	156	8.399	8.399	(0.940)	145007	2.50000	2.413
50 2,3,5-Trimethylnaphthalene	170	9.422	9.422	(1.054)	114774	2.50000	2.332
51 1-Methylphenanthrene	192	11.543	11.543	(0.821)	165884	2.50000	2.535
52 Benzo(e)pyrene	252	15.834	15.834	(0.990)	231853	2.50000	2.339
53 Perylene	252	16.035	16.035	(1.002)	207497	2.50000	2.230

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0814.d
Lab Smp Id: CC0814
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060814.b/simpna.m
Misc Info: DF0814

Calibration Date: 14-AUG-2006
Calibration Time: 08:13

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	232064	116032	464128	232064	0.00
8 Acenaphthene-d10	123496	61748	246992	123496	0.00
15 Phenanthrene-d10	190473	95236	380946	190473	0.00
23 Chrysene-d12	159839	79920	319678	159839	0.00
31 Perylene-d12	162821	81410	325642	162821	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.88	6.38	7.38	6.88	0.00
8 Acenaphthene-d10	8.94	8.44	9.44	8.94	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.06	13.56	14.56	14.06	0.00
31 Perylene-d12	16.00	15.50	16.50	16.00	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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0814.d
Analysis Type:
Lab Sample ID: CC0814
Method: /chem3/nt1.i/20060814.b/simpna.m

Injection Date: 14-AUG-2006 08:13
Init. Cal. Date(s): 04-AUG-2006 04-AUG-2006
Init. Cal. Times: 10:25 12:28
Quant Type: ISTD

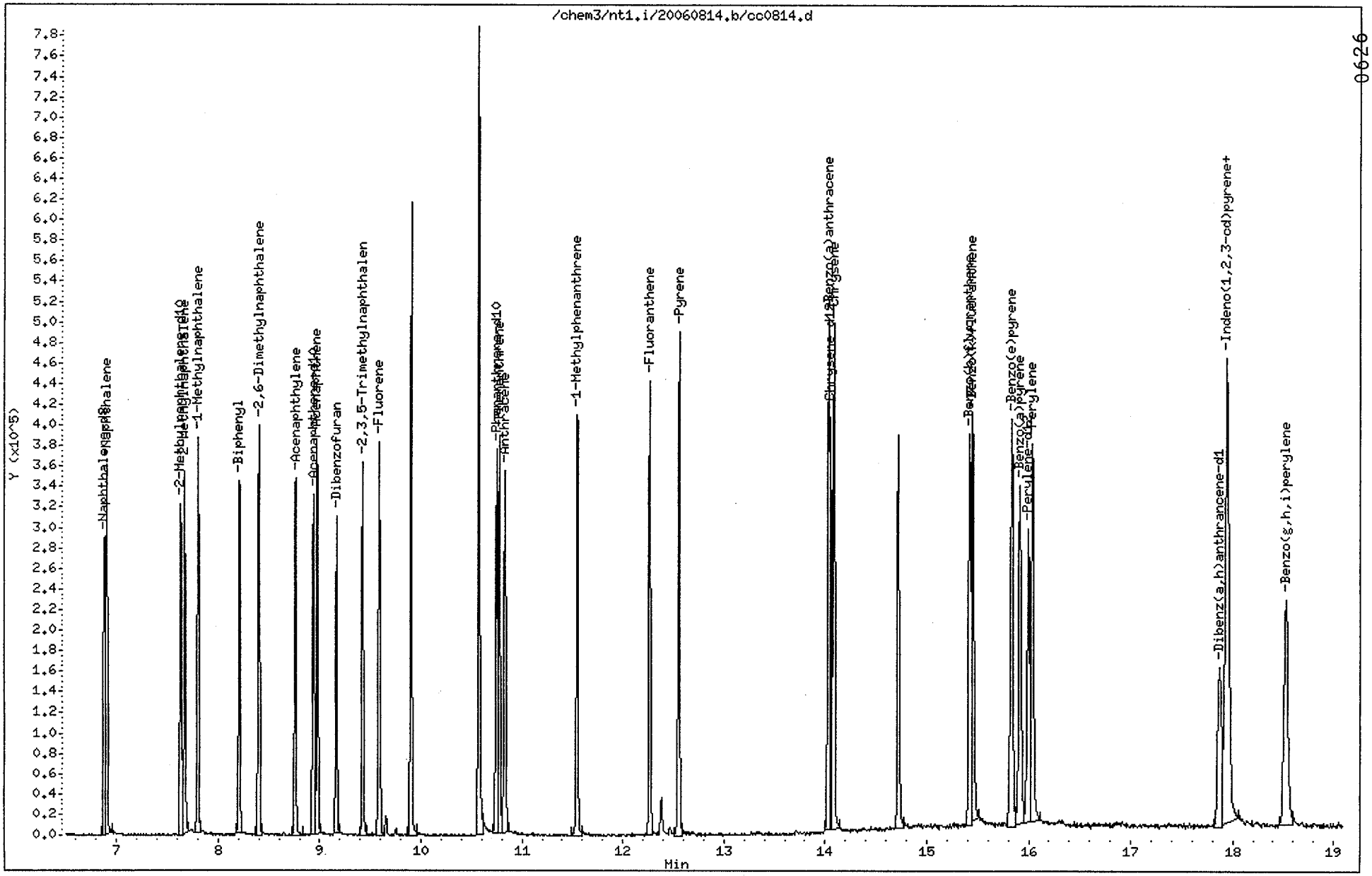
COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.99759	0.97479	0.010	2.28553	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.51514	0.50342	0.010	2.27500	20.00000	Averaged
4 2-Methylnaphthalene	0.59078	0.56747	0.010	3.94646	20.00000	Averaged
5 1-Methylnaphthalene	0.61969	0.58335	0.010	5.86473	20.00000	Averaged
7 Acenaphthylene	1.65817	1.61758	0.010	2.44828	20.00000	Averaged
9 Acenaphthene	0.98203	0.92990	0.010	5.30874	20.00000	Averaged
10 Dibenzofuran	1.44651	1.39067	0.010	3.86057	20.00000	Averaged
11 Fluorene	1.12609	1.10235	0.010	2.10779	20.00000	Averaged
16 Phenanthrene	1.02657	0.98385	0.010	4.16167	20.00000	Averaged
17 Anthracene	1.02589	1.00268	0.010	2.26174	20.00000	Averaged
19 Fluoranthene	1.04707	0.96494	0.010	7.84376	20.00000	Averaged
20 Pyrene	1.28426	1.23441	0.010	3.88140	20.00000	Averaged
22 Benzo(a)anthracene	1.20437	1.09018	0.010	9.48164	20.00000	Averaged
24 Chrysene	1.11086	1.05645	0.010	4.89813	20.00000	Averaged
28 Benzo(b)fluoranthene	1.12875	1.10950	0.010	1.70598	20.00000	Averaged
29 Benzo(k)fluoranthene	1.20336	1.12657	0.010	6.38132	20.00000	Averaged
30 Benzo(a)pyrene	1.09986	0.98561	0.010	10.38791	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.26484	1.19091	0.010	5.84463	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.76539	0.73639	0.010	3.78904	20.00000	Averaged
34 Dibenz(a,h)anthracene	1.03328	0.96927	0.010	6.19524	20.00000	Averaged
35 Benzo(g,h,i)perylene	1.05141	1.00882	0.010	4.05051	20.00000	Averaged
48 Biphenyl	1.23570	1.15978	0.010	6.14394	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.97325	0.93935	0.010	3.48331	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.79717	0.74350	0.010	6.73324	20.00000	Averaged
51 1-Methylphenanthrene	0.81867	0.83026	0.010	-1.41549	20.00000	Averaged
52 Benzo(e)pyrene	1.21746	1.13918	0.010	6.42963	20.00000	Averaged
53 Perylene	1.14310	1.01951	0.010	10.81245	20.00000	Averaged

Data File: /chem3/nt1.i/20060814.b/cc0814.d
Date : 14-AUG-2006 08:13
Client ID:
Sample Info: CC0814

Instrument: nt1.i

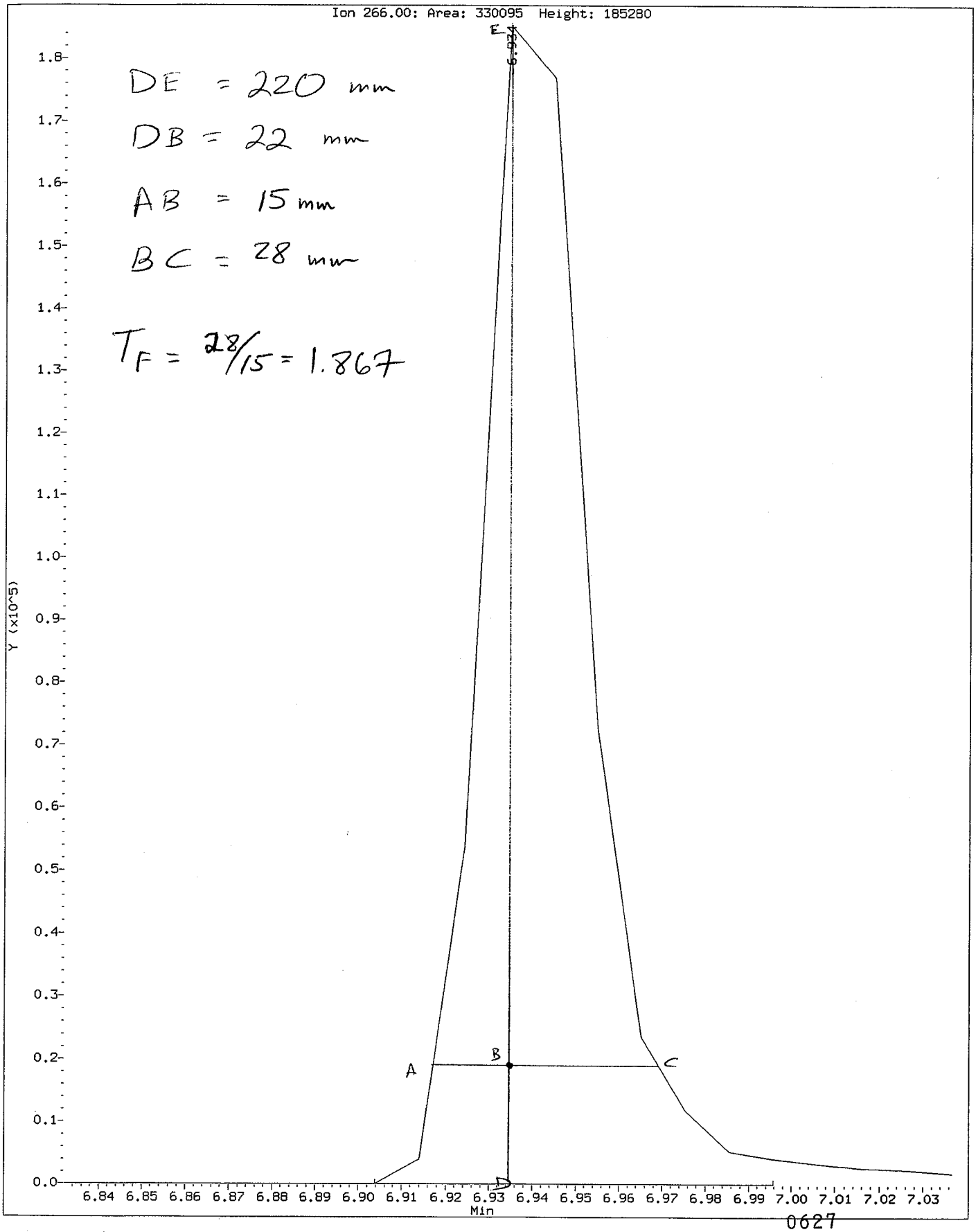
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



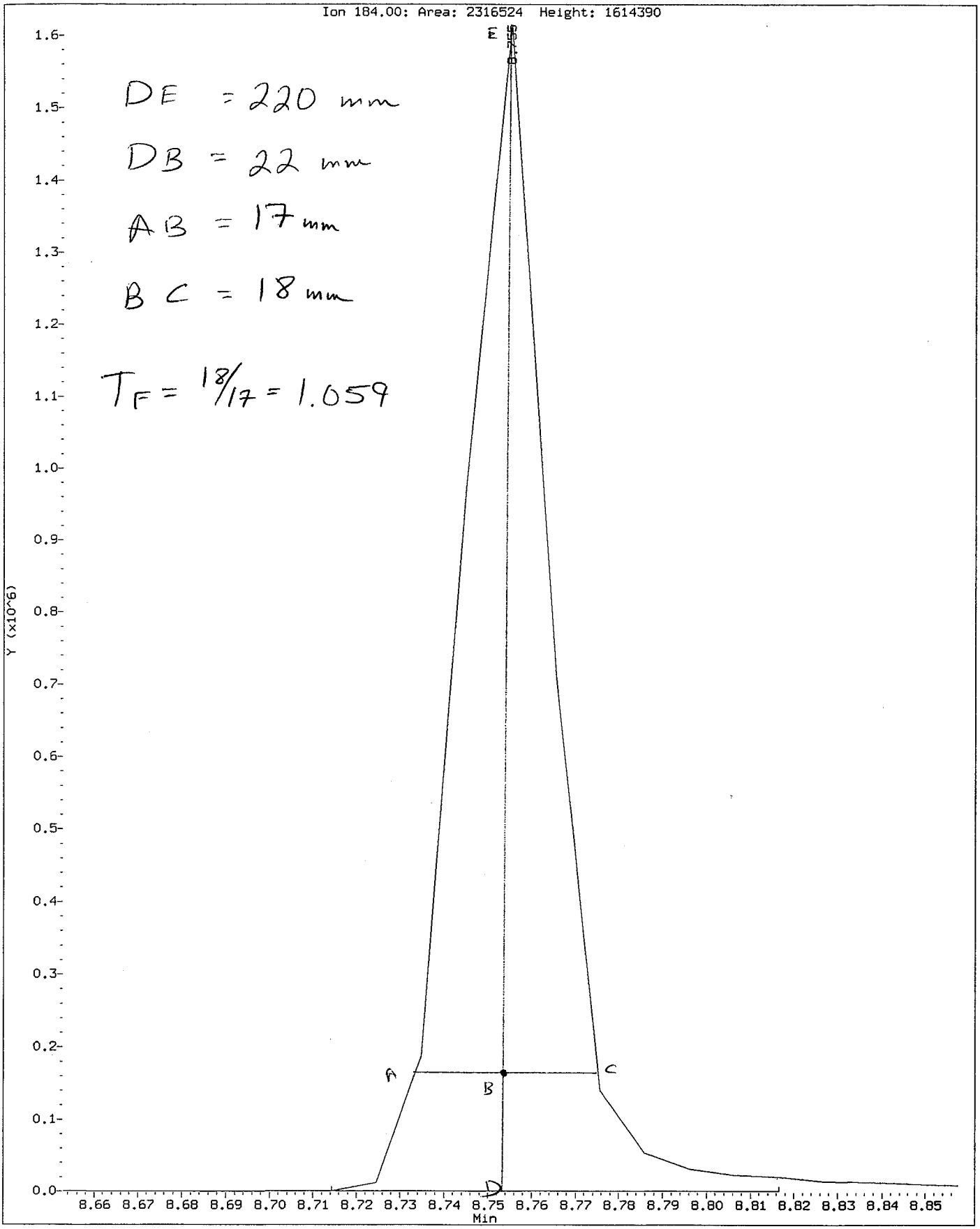
Data File: /chem3/nt1.i/20060814.b/ddt.b/df0814.d
Injection Date: 14-AUG-2006 07:58
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060814.b/ddt.b/df0814.d
Injection Date: 14-AUG-2006 07:58
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



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

Data file: /chem3/nt1.i/20060814.b/ddt.b/df0814.d
Method: /chem3/nt1.i/20060814.b/ddt.b/sw846ddt.m
Analysis Date: 14-AUG-2006 07:58

ARI ID: DF0814
Misc: DF0814
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.934	330094
Benzidine	8.755	2316524
4,4'-DDE	9.021	2519
4,4'-DDD	9.441	35364
4,4'-DDT	9.809	778165

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

$$\text{DDT Percent Breakdown} = \frac{(\ 2519 + 35364) * 100}{(\ 2519 + 35364 + 778165)}$$

DDT Percent Breakdown = 4.6 %