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. JQ52

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 JQ52

SD/sdrd

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:

Turn-around Requested: 15 business days

Page: 14 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-S3-02-F-DUP	7/18	1627	Sediment	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) [illegible]	(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

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.

0002

Sue Dunnihoo

From: Sue Dunnihoo [sue@arilabs.com]
Sent: Wednesday, July 26, 2006 11:35 AM
To: 'Ben Hung'
Cc: 'Rebecca Desrosiers'; 'Elizabeth Appy'
Subject: RE: CONFIDENTIAL: RE: T4

Thought so, but don't like to make those decisions on my own, lol!

Thanks!

Susan D. Dunnihoo
206-695-6207

-----Original Message-----
From: Ben Hung [mailto:bhung@anchorenv.com]
Sent: Wednesday, July 26, 2006 11:33 AM
To: Sue Dunnihoo
Cc: Rebecca Desrosiers; Elizabeth Appy
Subject: RE: CONFIDENTIAL: RE: T4

Sue,

Sorry for the confusion. I'm looking at the COC and the original sample was selected for analysis. So, we should analyze the field dup as well.

Thanks!

Ben Hung
Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
503.670.1108 x21 (V)
503.670.1128 (F)
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-----Original Message-----
From: Sue Dunnihoo [mailto:sue@arilabs.com]
Sent: Wednesday, July 26, 2006 11:04 AM
To: Ben Hung
Cc: Rebecca Desrosiers; Elizabeth Appy
Subject: RE: CONFIDENTIAL: RE: T4

One more sample to deal with, now that we've confirmed these are field dups and not extra volume. - We have T4-S3-O8-C-DUP not on a COC. Analyze or hold?

Thanks!

Susan D. Dunnihoo
206-695-6207

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 050332-01 T4 Early Action
Matrix: Sediment
ARI Job Nos. JQ52

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

Sample receipt

Six sediment samples were received July 21, 2006 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 at first misidentified by sample receiving as additional aliquots for QC. It was confirmed by Anchor that these samples were discreet samples to be analyzed and samples were split off into ARI Job JQ52. At this time it was determined that sample T4-S3-08-C-DUP was not listed on a COC. This was identified by Anchor as a sample to be analyzed. Two of the listed samples were placed on hold and the remaining samples including T4-S3-08-C-DUP analyzed per the COC.

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 recoveries and RPDs within limits.

One sample required analysis at dilution due to response above the calibrated range of the instrument.

There were no 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 Bis-2-ethylhexylphthalate. All associated samples have been 'B'-flagged.

The LCS had recoveries within limits for target compounds.

Surrogates recoveries were within ARI control limits.

The batch MS/MSD run under ARI Job JQ35 had recovery and RPDs within limits. A copy of the summary form is included here.

Samples were run at dilution to attempt to minimize the matrix effect on internal standards as seen in earlier samples from this site. Internal standard areas were within method limits with the exception of Chrysene which was out in T4-S3-03-C-DUP. The sample was rerun at a higher dilution with acceptable IS response.

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.

Internal standard areas were within limits.

The batch MS/MSD run under ARI Job JQ35 had recoveries and RPDs within limits. A copy of the summary form is included in this report.

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

There were no other incidents of note.

Total Metals

The samples were digested and analyzed within holding times.

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

The SRM had recoveries within limits.

The duplicate RPDs were within limits.

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

General Chemistry Parameters

Total Organic Carbon

Samples were prepared and analyzed within the required holding time.

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

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

Standard reference recoveries were within limits.

Geotechnical Parameters

A geotechnical narrative follows this page.

Data 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: JQ52

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-S3-02-F-DUP
SAMPLE

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 12:46
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 45.9%
pH: 6.6

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	50	260	
91-57-6	2-Methylnaphthalene	50	160	
90-12-0	1-Methylnaphthalene	50	80	
208-96-8	Acenaphthylene	50	45	J
83-32-9	Acenaphthene	50	1,400	
86-73-7	Fluorene	50	640	
85-01-8	Phenanthrene	50	5,200	E
120-12-7	Anthracene	50	1,200	
206-44-0	Fluoranthene	50	11,000	E
129-00-0	Pyrene	50	10,000	E
56-55-3	Benzo(a)anthracene	50	7,100	E
218-01-9	Chrysene	50	8,800	E
205-99-2	Benzo(b)fluoranthene	50	9,700	E
207-08-9	Benzo(k)fluoranthene	50	7,900	E
50-32-8	Benzo(a)pyrene	50	9,800	E
193-39-5	Indeno(1,2,3-cd)pyrene	50	5,400	E
53-70-3	Dibenz(a,h)anthracene	50	1,900	
191-24-2	Benzo(g,h,i)perylene	50	6,100	E
198-55-0	Perylene	50	3,000	
92-52-4	Biphenyl	50	< 50	U
581-42-0	2,6-Dimethylnaphthalene	50	95	
832-69-9	1-Methylphenanthrene	50	480	
192-97-2	Benzo(e)pyrene	50	5,800	E
2245-38-7	2,3,5-Trimethylnaphthalene	50	120	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracen	61.0%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-02-F-DUP
DILUTION

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/09/06 16:00
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 45.9%
pH: 6.6

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**250**	**250 J**
91-57-6	**2-Methylnaphthalene**	**250**	**150 J**
90-12-0	1-Methylnaphthalene	250	< 250 U
208-96-8	Acenaphthylene	250	< 250 U
83-32-9	**Acenaphthene**	**250**	**1,300**
86-73-7	**Fluorene**	**250**	**620**
85-01-8	**Phenanthrene**	**250**	**4,700**
120-12-7	**Anthracene**	**250**	**1,100**
206-44-0	**Fluoranthene**	**250**	**10,000**
129-00-0	**Pyrene**	**250**	**8,900**
56-55-3	**Benzo(a)anthracene**	**250**	**6,400**
218-01-9	**Chrysene**	**250**	**7,800**
205-99-2	**Benzo(b)fluoranthene**	**250**	**8,000**
207-08-9	**Benzo(k)fluoranthene**	**250**	**6,700**
50-32-8	**Benzo(a)pyrene**	**250**	**8,200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**250**	**5,000**
53-70-3	**Dibenz(a,h)anthracene**	**250**	**1,800**
191-24-2	**Benzo(g,h,i)perylene**	**250**	**5,800**
198-55-0	**Perylene**	**250**	**2,500**
92-52-4	Biphenyl	250	< 250 U
581-42-0	2,6-Dimethylnaphthalene	250	< 250 U
832-69-9	**1-Methylphenanthrene**	**250**	**380**
192-97-2	**Benzo(e)pyrene**	**250**	**4,900**
2245-38-7	2,3,5-Trimethylnaphthalene	250	< 250 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

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

FORM I

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-03-C-DUP
SAMPLE

Lab Sample ID: JQ52B
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 13:11
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 41.8%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	49	98
91-57-6	2-Methylnaphthalene	49	49
90-12-0	1-Methylnaphthalene	49	24 J
208-96-8	Acenaphthylene	49	44 J
83-32-9	Acenaphthene	49	210
86-73-7	Fluorene	49	130
85-01-8	Phenanthrene	49	760
120-12-7	Anthracene	49	150
206-44-0	Fluoranthene	49	1,600
129-00-0	Pyrene	49	1,600
56-55-3	Benzo(a)anthracene	49	710
218-01-9	Chrysene	49	960
205-99-2	Benzo(b)fluoranthene	49	880
207-08-9	Benzo(k)fluoranthene	49	740
50-32-8	Benzo(a)pyrene	49	910
193-39-5	Indeno(1,2,3-cd)pyrene	49	550
53-70-3	Dibenz(a,h)anthracene	49	170
191-24-2	Benzo(g,h,i)perylene	49	690
198-55-0	Perylene	49	440
92-52-4	Biphenyl	49	< 49 U
581-42-0	2,6-Dimethylnaphthalene	49	< 49 U
832-69-9	1-Methylphenanthrene	110	< 110 Y
192-97-2	Benzo(e)pyrene	49	560
2245-38-7	2,3,5-Trimethylnaphthalene	49	64

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.7%
d14-Dibenzo(a,h)anthracen	66.0%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-B414-02-A-DUP
SAMPLE

Lab Sample ID: JQ52C
LIMS ID: 06-13104
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 19:47
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 50.1%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	48	< 48 U
91-57-6	2-Methylnaphthalene	48	< 48 U
90-12-0	1-Methylnaphthalene	48	< 48 U
208-96-8	Acenaphthylene	48	< 48 U
83-32-9	**Acenaphthene**	**48**	**120**
86-73-7	**Fluorene**	**48**	**48**
85-01-8	**Phenanthrene**	**48**	**420**
120-12-7	**Anthracene**	**48**	**81**
206-44-0	**Fluoranthene**	**48**	**980**
129-00-0	**Pyrene**	**48**	**920**
56-55-3	**Benzo(a)anthracene**	**48**	**660**
218-01-9	**Chrysene**	**48**	**840**
205-99-2	**Benzo(b)fluoranthene**	**48**	**1,100**
207-08-9	**Benzo(k)fluoranthene**	**48**	**840**
50-32-8	**Benzo(a)pyrene**	**48**	**1,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**48**	**660**
53-70-3	**Dibenz(a,h)anthracene**	**48**	**240**
191-24-2	**Benzo(g,h,i)perylene**	**48**	**770**
198-55-0	**Perylene**	**48**	**300**
92-52-4	Biphenyl	48	< 48 U
581-42-0	2,6-Dimethylnaphthalene	48	< 48 U
832-69-9	1-Methylphenanthrene	48	< 48 U
192-97-2	**Benzo(e)pyrene**	**48**	**630**
2245-38-7	2,3,5-Trimethylnaphthalene	48	< 48 U

Reported in μg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracen	79.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-08-C-DUP
SAMPLE

Lab Sample ID: JQ52D
LIMS ID: 06-13114
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 20:12
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 15.3%
pH: 5.8

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**	**88**
86-73-7	**Fluorene**	**49**	**59**
85-01-8	**Phenanthrene**	**49**	**560**
120-12-7	**Anthracene**	**49**	**93**
206-44-0	**Fluoranthene**	**49**	**1,100**
129-00-0	**Pyrene**	**49**	**900**
56-55-3	**Benzo(a)anthracene**	**49**	**540**
218-01-9	**Chrysene**	**49**	**780**
205-99-2	**Benzo(b)fluoranthene**	**49**	**830**
207-08-9	**Benzo(k)fluoranthene**	**49**	**620**
50-32-8	**Benzo(a)pyrene**	**49**	**660**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**49**	**440**
53-70-3	**Dibenz(a,h)anthracene**	**49**	**150**
191-24-2	**Benzo(g,h,i)perylene**	**49**	**500**
198-55-0	**Perylene**	**49**	**280**
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**	**490**
2245-38-7	2,3,5-Trimethylnaphthalene	49	< 49 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	69.0%
d14-Dibenzo(a,h)anthracen	67.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	MNP	DBA	TOT OUT
MB-080106	62.3%	74.3%	0
LCS-080106	75.3%	86.0%	0
T4-S3-02-F-DUP	68.7%	61.0%	0
T4-S3-02-F-DUP DL	D	D	0
T4-S3-03-C-DUP	64.7%	66.0%	0
T4-B414-02-A-DUP	73.3%	79.0%	0
T4-S3-08-C-DUP	69.0%	67.7%	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: 06-13102 to 06-13114

FORM-II SIM SW8270

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

ANALYTICAL RESOURCES INCORPORATED

Sample ID: T4-S3-08-C
MATRIX SPIKE

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized: VTS
Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted MS/MSD: 08/01/06

Date Analyzed MS: 08/07/06 21:10
MSD: 08/07/06 21:35
Instrument/Analyst MS: Und: 7/YZ
MSD: Und: 7/YZ

Sample Amount MS: 10.4 g-dry-wt
MSD: 10.4 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	121	235	144	79.2%	231	144	76.4%	1.7%
Chrysene	208	349	144	97.9%	337	144	89.6%	3.5%
Benzo(k)fluoranthene	185	361	144	122%	354	144	117%	2.0%

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

Sample ID: LCS-080106
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080106
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/01/06
Date Analyzed LCS: 08/07/06 11:40
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	100	150	66.7%
1-Methylnaphthalene	98.5	150	65.7%
Acenaphthylene	108	150	72.0%
Acenaphthene	108	150	72.0%
Fluorene	117	150	78.0%
Phenanthrene	121	150	80.7%
Anthracene	118	150	78.7%
Fluoranthene	131	150	87.3%
Pyrene	124	150	82.7%
Benzo(a)anthracene	124	150	82.7%
Chrysene	130	150	86.7%
Benzo(b)fluoranthene	130	150	86.7%
Benzo(k)fluoranthene	130	150	86.7%
Benzo(a)pyrene	116	150	77.3%
Indeno(1,2,3-cd)pyrene	118	150	78.7%
Dibenz(a,h)anthracene	123	150	82.0%
Benzo(g,h,i)perylene	128	150	85.3%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	75.3%
d14-Dibenzo(a,h)anthracen	86.0%

FORM III

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JQ35MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR

ARI Job No: JQ52

Project: T4 EARLY ACTION

Lab File ID: JQ35MB

Date Extracted: 08/01/06

Instrument ID: NT1

Date Analyzed: 08/07/06

Matrix: SOLID

Time Analyzed: 1115

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JQ35LCSS1	JQ35LCSS1	JQ35SB	08/07/06
02	T4-S3-02-F-DUP	JQ52A	JQ52A10	08/08/06
03	T4-S3-03-C-DUP	JQ52B	JQ52B10	08/08/06
04	T4-B414-02-A-DUP	JQ52C	JQ52C10	08/08/06
05	T4-S3-08-C-DUP	JQ52D	JQ52D10	08/08/06
06	T4-S3-02-F-DUP	JQ52ADL	JQ52ADL	08/09/06
07				
08				
09				
10				
11				
12				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: MB-080106
METHOD BLANK

Lab Sample ID: MB-080106
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/01/06
Date Analyzed: 08/07/06 11:15
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

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

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

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracen	74.3%

FORM I

SEMIVOLATILE ORGANICS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

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

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/08/06 21:22
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 45.9%
pH: 6.6

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	60	< 60 U
84-66-2	Diethylphthalate	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**60**	**140 B**
117-84-0	Di-n-Octyl phthalate	60	< 60 U

Reported in μg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	35.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-S3-03-C-DUP
SAMPLE

Lab Sample ID: JQ52B
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/08/06 21:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 41.8%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	60	< 60 U
84-66-2	Diethylphthalate	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**60**	**140 B**
117-84-0	Di-n-Octyl phthalate	60	< 60 U

Reported in μg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	29.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-S3-03-C-DUP
DILUTION

Lab Sample ID: JQ52B
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 13:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 41.8%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	99	< 99 U
84-66-2	Diethylphthalate	99	< 99 U
84-74-2	Di-n-Butylphthalate	99	< 99 U
85-68-7	Butylbenzylphthalate	99	< 99 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**99**	**140 B**
117-84-0	Di-n-Octyl phthalate	99	< 99 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	41.0%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-B414-02-A-DUP
SAMPLE

Lab Sample ID: JQ52C
LIMS ID: 06-13104
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 12:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 50.1%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	59	< 59 U
84-66-2	Diethylphthalate	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	< 59 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	41.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-S3-08-C-DUP
SAMPLE

Lab Sample ID: JQ52D
LIMS ID: 06-13114
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 12:55
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 15.3%
pH: 5.8

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	59	< 59 U
84-66-2	Diethylphthalate	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	< 59 U

Reported in μg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	63.7%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	TPH	TOT OUT
MB-073106	71.6%	0
LCS-073106	56.4%	0
T4-S3-02-F-DUP	35.9%	0
T4-S3-03-C-DUP	29.4%	0
T4-S3-03-C-DUP DL	41.0%	0
T4-B414-02-A-DUP	41.6%	0
T4-S3-08-C-DUP	63.7%	0

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

Prep Method: SW3550B
Log Number Range: 06-13102 to 06-13114

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-S3-08-C
MS/MSD

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted MS/MSD: 07/31/06

Date Analyzed MS: 08/08/06 20:21
MSD: 08/08/06 20:52
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: YES

Sample Amount MS: 50.8 g-dry-wt
MSD: 51.0 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 3.00
MSD: 3.00
Percent Moisture: 16.7%
pH: 6.0

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Di-n-Octyl phthalate	< 58.5	299	492	60.8%	295	490	60.2%	1.3%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: LCS-073106
LAB CONTROL

Lab Sample ID: LCS-073106
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 10:55
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

Analyte	Lab Control	Spike Added	Recovery
Dimethylphthalate	331	500	66.2%
Diethylphthalate	349	500	69.8%
Di-n-Butylphthalate	357	500	71.4%
Butylbenzylphthalate	322	500	64.4%
bis(2-Ethylhexyl)phthalate	373	500	74.6%
Di-n-Octyl phthalate	330	500	66.0%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	56.4%

Results reported in µg/kg

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JQ35MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR

ARI Job No: JQ35

Project: T4 EARLY ACTION

Lab File ID: JQ35MB

Date Extracted: 07/31/06

Instrument ID: NT6

Date Analyzed: 08/07/06

Matrix: SOLID

Time Analyzed: 1025

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JQ35LCSS1	JQ35LCSS1	JQ35SB	08/07/06
02	T4-S3-02-C	JQ35A	JQ35ADL	08/07/06
03	T4-S3-02-D	JQ35B	JQ35BDL	08/07/06
04	T4-S3-02-E	JQ35C	JQ35CDL	08/07/06
05	T4-S3-02-F	JQ35D	JQ35DDL	08/07/06
06	T4-S3-03-B	JQ35E	JQ35EDL	08/07/06
07	T4-S3-03-C	JQ35F	JQ35FDL	08/07/06
08	T4-S3-03-D	JQ35G	JQ35GDL	08/07/06
09	T4-S3-05-E	JQ35H	JQ35HDL	08/07/06
10	T4-S3-05-F	JQ35I	JQ35IDL	08/07/06
11	T4-S3-05-G	JQ35J	JQ35JDL	08/07/06
12	T4-S3-05-H	JQ35K	JQ35KDL	08/07/06
13	T4-S3-05-J	JQ35L	JQ35L	08/07/06
14	T4-S3-06-A	JQ35M	JQ35M	08/07/06
15	T4-S3-06-B	JQ35N	JQ35N	08/07/06
16	T4-S3-08-B	JQ35O	JQ35ODL	08/07/06
17	T4-S3-08-C	JQ35P	JQ35PDL	08/08/06
18	T4-S3-08-C MS	JQ35PMS	JQ35PMS	08/08/06
19	T4-S3-08-C MSD	JQ35PMSD	JQ35PMD	08/08/06
20	T4-S3-02-F-DUP	JQ52A	JQ52ADL	08/08/06
21	T4-S3-03-C-DUP	JQ52B	JQ52BDL	08/08/06
22	T4-B414-02-A-DUP	JQ52C	JQ52CDL	08/09/06
23	T4-S3-08-C-DUP	JQ52D	JQ52DDL	08/09/06
24	T4-S3-03-C-DUP	JQ52B	JQ52BDL2	08/09/06
25	T4-S3-05-G	JQ35J	JQ35JDL2	08/09/06
26	T4-S3-05-H	JQ35K	JQ35KDL2	08/09/06
27				
28				
29				
30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: MB-073106
METHOD BLANK

Lab Sample ID: MB-073106
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/30/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 10:25
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	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**10 J**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	71.6%

NWTPH-Dx

ANALYTICAL RESOURCES INCORPORATED

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

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/01/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-072806	Method Blank	07/28/06	08/01/06	1.0	Diesel	< 5.0 U
06-13102	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	59.8%
JQ52A	T4-S3-02-F-DUP	07/28/06	08/01/06	10	**Diesel**	**590**
06-13102	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**710**
					o-Terphenyl	56.4%
JQ52B	T4-S3-03-C-DUP	07/28/06	08/01/06	1.0	**Diesel**	**360**
06-13103	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**520**
					o-Terphenyl	50.7%
JQ52C	T4-B414-02-A-DUP	07/28/06	08/01/06	1.0	**Diesel**	**21**
06-13104	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**52**
					o-Terphenyl	70.7%
JQ52D	T4-S3-08-C-DUP	07/28/06	08/01/06	1.0	**Diesel**	**43**
06-13114	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**160**
					o-Terphenyl	64.0%

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: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	OTER	TOT OUT
072806MBS	59.8%	0
072806LCS	61.8%	0
T4-S3-02-F-DUP	56.4%	0
T4-S3-02-F-DUP MS	50.9%	0
T4-S3-02-F-DUP MSD	48.7%	0
T4-S3-03-C-DUP	50.7%	0
T4-B414-02-A-DUP	70.7%	0
T4-S3-08-C-DUP	64.0%	0

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

Prep Method: SW3550B
Log Number Range: 06-13102 to 06-13114

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID

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

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted MS/MSD: 07/28/06

Date Analyzed MS: 08/01/06 07:42
MSD: 08/01/06 07:57
Instrument/Analyst MS: FID3A/JGR
MSD: FID3A/JGR

Sample Amount MS: 5.42 g-dry-wt
MSD: 5.41 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 10.0
MSD: 10.0
Percent Moisture: 45.9%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	589	718	277	46.6%	699	277	39.7%	2.7%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	50.9%	48.7%

Results reported in mg/kg
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-072806
LAB CONTROL

Lab Sample ID: LCS-072806
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 07/28/06
Date Analyzed: 08/01/06 01:03
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	89.8	150	59.9%

TPHD Surrogate Recovery

o-Terphenyl	61.8%

Results reported in mg/kg

4

TPH METHOD BLANK SUMMARY

BLANK NO.

JQ52MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

SDG No.: JQ52

Project No.: T4 EARLY ACTION

Date Extracted: 07/28/06

Matrix: SOLID

Date Analyzed : 08/01/06

Instrument ID : FID3A

Time Analyzed : 0048

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	JQ52LCSS1	JQ52LCSS1	08/01/06
02	T4-S3-02-F-D	JQ52A	08/01/06
03	T4-S3-02-F-D	JQ52AMS	08/01/06
04	T4-S3-02-F-D	JQ52AMSD	08/01/06
05	T4-S3-03-C-D	JQ52B	08/01/06
06	T4-B414-02-A	JQ52C	08/01/06
07	T4-S3-08-C-D	JQ52D	08/01/06
08			

FORM IV TPH

TOTAL METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

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

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 54.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/07/06	6010B	08/07/06	**7439-92-1**	**Lead**	4	**713**	
3050B	08/07/06	6010B	08/07/06	**7440-66-6**	**Zinc**	1	**708**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-S3-02-F-DUP
DUPLICATE

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Lead	6010B	713	651	9.1%	+/- 20%	
Zinc	6010B	708	635	10.9%	+/- 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

Sample ID: T4-S3-02-F-DUP
MATRIX SPIKE

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Lead	6010B	713	1,010	356	83.4%	
Zinc	6010B	708	751	88.9	48.4%	H

Reported in mg/kg-dry

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

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-S3-03-C-DUP
SAMPLE

Lab Sample ID: JQ52B
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 60.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/07/06	6010B	08/07/06	**7439-92-1**	**Lead**	3	**432**	
3050B	08/07/06	6010B	08/07/06	**7440-66-6**	**Zinc**	0.9	**524**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-B414-02-A-DUP
SAMPLE

Lab Sample ID: JQ52C
LIMS ID: 06-13104
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 50.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/07/06	6010B	08/07/06	**7439-92-1**	**Lead**	4	**149**	
3050B	08/07/06	6010B	08/07/06	**7440-66-6**	**Zinc**	1	**180**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-S3-08-C-DUP
SAMPLE

Lab Sample ID: JQ52D
LIMS ID: 06-13114
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 81.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/07/06	6010B	08/07/06	**7439-92-1**	**Lead**	2	**12**	
3050B	08/07/06	6010B	08/07/06	**7440-66-6**	**Zinc**	0.7	**69.6**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: JQ52MB
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-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	08/07/06	6010B	08/07/06	7439-92-1	Lead	2	2	U
3050B	08/07/06	6010B	08/07/06	**7440-66-6**	**Zinc**	0.6	**2.0**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: JQ52LCS
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ52-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	212	200	106%	
Zinc	6010B	52.7	50.0	105%	

Reported in mg/kg-dry

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

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

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

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-F-DUP
ARI ID: 06-13102 JQ52A

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/26/06 072606#1	EPA 160.3	Percent	0.01	53.60
Total Organic Carbon	07/27/06 072706#1	Plumb,1981	Percent	0.020	1.62

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

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

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-C-DUP
ARI ID: 06-13103 JQ52B

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/26/06 072606#1	EPA 160.3	Percent	0.01	60.90
Total Organic Carbon	07/27/06 072706#1	Plumb,1981	Percent	0.020	1.82

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

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

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-A-DUP
ARI ID: 06-13104 JQ52C

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/26/06 072606#1	EPA 160.3	Percent	0.01	50.10
Total Organic Carbon	07/27/06 072706#1	Plumb,1981	Percent	0.020	1.74

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

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

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-08-C-DUP
ARI ID: 06-13114 JQ52D

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/26/06 072606#1	EPA 160.3	Percent	0.01	83.00
Total Organic Carbon	07/27/06 072706#1	Plumb,1981	Percent	0.020	0.130

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

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

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

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

LAB CONTROL RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
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	07/27/06	Percent	0.498	0.500	99.6%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
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 NIST #8704	07/27/06	Percent	3.16	3.35	94.3%

REPLICATE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

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

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: JQ52C Client ID: T4-B414-02-A-DUP					
Total Solids	07/26/06	Percent	50.10	50.00 49.80	0.3%
Total Organic Carbon	07/27/06	Percent	1.74	1.84 1.59	7.3%

MS/MSD RESULTS-CONVENTIONALS
JQ52-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

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

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: JQ52C Client ID: T4-B414-02-A-DUP						
Total Organic Carbon	07/27/06	Percent	1.74	3.57	1.92	95.3%

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Elizabeth Frances Weidner
Created: 7/27/06

Worklist: 5933
Analyst: EFW
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	JQ52A 06-13102 T4-S3-02-F-DUP	1.14	11.64	6.82	54.1	6.6
2.	JQ52B 06-13103 T4-S3-03-C-DUP	1.12	11.50	7.16	58.2	6.4
3.	JQ52C 06-13104 T4-B414-02-A-DUP	1.13	11.73	6.42	49.9	6.4
4.	JQ52D 06-13114 T4-S3-08-C-DUP	1.13	11.23	9.68	84.7	5.8

Solids Data Entry Report Checked by: ESR 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
JQ52	A	T4-S3-02-F-DUP	0.982	10.321	6.085	54.64
JQ52	B	T4-S3-03-C-DUP	1.019	10.724	6.929	60.90
JQ52	C	T4-B414-02-A-DUP	1.015	10.415	5.756	50.44
JQ52	D	T4-S3-08-C-DUP	1.004	10.609	8.848	81.67

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

SIM Semivolatile Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	MNP	DBA	TOT OUT
MB-080106	62.3%	74.3%	0
LCS-080106	75.3%	86.0%	0
T4-S3-02-F-DUP	68.7%	61.0%	0
T4-S3-02-F-DUP DL	D	D	0
T4-S3-03-C-DUP	64.7%	66.0%	0
T4-B414-02-A-DUP	73.3%	79.0%	0
T4-S3-08-C-DUP	69.0%	67.7%	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: 06-13102 to 06-13114

FORM-II SIM SW8270

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-08-C
MATRIX SPIKE

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized: VTS
Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted MS/MSD: 08/01/06

Date Analyzed MS: 08/07/06 21:10
MSD: 08/07/06 21:35
Instrument/Analyst MS: Und: 7/YZ
MSD: Und: 7/YZ

Sample Amount MS: 10.4 g-dry-wt
MSD: 10.4 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	121	235	144	79.2%	231	144	76.4%	1.7%
Chrysene	208	349	144	97.9%	337	144	89.6%	3.5%
Benzo(k)fluoranthene	185	361	144	122%	354	144	117%	2.0%

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

Sample ID: LCS-080106
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080106
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/01/06
Date Analyzed LCS: 08/07/06 11:40
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	100	150	66.7%
1-Methylnaphthalene	98.5	150	65.7%
Acenaphthylene	108	150	72.0%
Acenaphthene	108	150	72.0%
Fluorene	117	150	78.0%
Phenanthrene	121	150	80.7%
Anthracene	118	150	78.7%
Fluoranthene	131	150	87.3%
Pyrene	124	150	82.7%
Benzo(a)anthracene	124	150	82.7%
Chrysene	130	150	86.7%
Benzo(b)fluoranthene	130	150	86.7%
Benzo(k)fluoranthene	130	150	86.7%
Benzo(a)pyrene	116	150	77.3%
Indeno(1,2,3-cd)pyrene	118	150	78.7%
Dibenz(a,h)anthracene	123	150	82.0%
Benzo(g,h,i)perylene	128	150	85.3%

Reported in μg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	75.3%
d14-Dibenzo(a,h)anthracen	86.0%

FORM III

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JQ35MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR

ARI Job No: JQ52

Project: T4 EARLY ACTION

Lab File ID: JQ35MB

Date Extracted: 08/01/06

Instrument ID: NT1

Date Analyzed: 08/07/06

Matrix: SOLID

Time Analyzed: 1115

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JQ35LCSS1	JQ35LCSS1	JQ35SB	08/07/06
02	T4-S3-02-F-DUP	JQ52A	JQ52A10	08/08/06
03	T4-S3-03-C-DUP	JQ52B	JQ52B10	08/08/06
04	T4-B414-02-A-DUP	JQ52C	JQ52C10	08/08/06
05	T4-S3-08-C-DUP	JQ52D	JQ52D10	08/08/06
06	T4-S3-02-F-DUP	JQ52ADL	JQ52ADL	08/09/06
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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25				
26				
27				
28				
29				
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
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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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: 08/07/06 DFTPP Injection Time: 1024

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	41.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	43.7
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	19.0
365	Greater than 0.75% of mass 198	1.92
441	Present, but less than mass 443	13.1
442	40.0 - 110.0% of mass 198	73.5
443	15.0 - 24.0% of mass 442	14.5 (19.7)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0807	CC0807	08/07/06	1039
02	JQ35MBS1	JQ35MBS1	JQ35MB	08/07/06	1115
03	JQ35LCSS1	JQ35LCSS1	JQ35SB	08/07/06	1140
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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: 08/08/06 DFTPP Injection Time: 0911

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	42.1
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	44.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 0.75% of mass 198	1.90
441	Present, but less than mass 443	12.4
442	40.0 - 110.0% of mass 198	69.7
443	15.0 - 24.0% of mass 442	13.2 (18.9)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		CC0808	CC0808	08/08/06	0927
02	T4-S3-02-F-DUP	JQ52A	JQ52A10	08/08/06	1246
03	T4-S3-03-C-DUP	JQ52B	JQ52B10	08/08/06	1311
04	T4-B414-02-A-DUP	JQ52C	JQ52C10	08/08/06	1947
05	T4-S3-08-C-DUP	JQ52D	JQ52D10	08/08/06	2012
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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	T4-S3-02-F-DUP	JQ52ADL	JQ52ADL	08/09/06	1600
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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: JQ52 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0807 — Date Analyzed: 08/07/06

Instrument ID: NT1 — Time Analyzed: 1039

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3(PHN) AREA #	RT #
	12 HOUR STD	231039	6.89	129131	8.95	212850	10.76
	UPPER LIMIT	462078	7.39	258262	9.45	425700	11.26
	LOWER LIMIT	115520	6.39	64566	8.45	106425	10.26
	CLIENT SAMP. NO.						
01	JQ35MBS1	196430	6.89	104230	8.95	173132	10.77
02	JQ35LCSS1	226245	6.89	123629	8.95	200567	10.77
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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: JQ52 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0807 — Date Analyzed: 08/07/06

Instrument ID: NT1 — Time Analyzed: 1039

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	190817	14.08	197592	16.03		
	UPPER LIMIT	381634	14.58	395184	16.53		
	LOWER LIMIT	95408	13.58	98796	15.53		
	CLIENT SAMP. NO.						
01	JQ35MBS1	159409	14.08	172927	16.03		
02	JQ35LCSS1	186165	14.08	197062	16.04		
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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: JQ52 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0808 — Date Analyzed: 08/08/06

Instrument ID: NT1 — Time Analyzed: 0927

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3(PHN) AREA #	RT #
	12 HOUR STD	260380	6.88	135690	8.95	210931	10.75
	UPPER LIMIT	520760	7.38	271380	9.45	421862	11.25
	LOWER LIMIT	130190	6.38	67845	8.45	105466	10.25
	CLIENT SAMP. NO.						
01	T4-S3-02-F-D	281092	6.88	147661	8.95	243797	10.76
02	T4-S3-03-C-D	294830	6.88	155476	8.94	252000	10.76
03	T4-B414-02-A	282374	6.88	147361	8.94	235117	10.75
04	T4-S3-08-C-D	299651	6.88	156857	8.94	247671	10.75
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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: JQ52 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0808 — Date Analyzed: 08/08/06

Instrument ID: NT1 — Time Analyzed: 0927

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	190595	14.07	193807	16.02		
	UPPER LIMIT	381190	14.57	387614	16.52		
	LOWER LIMIT	95298	13.57	96904	15.52		
	CLIENT SAMP. NO.						
01	T4-S3-02-F-D	221789	14.08	226677	16.03		
02	T4-S3-03-C-D	219152	14.07	235237	16.03		
03	T4-B414-02-A	202857	14.07	206865	16.02		
04	T4-S3-08-C-D	213809	14.07	215837	16.02		
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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: JQ52 — 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	T4-S3-02-F-D	292387	6.88	144713	8.93	204501	10.75
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22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

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

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

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ52 — 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	T4-S3-02-F-D	187525	14.06	225550	16.01		
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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: JQ52

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-S3-02-F-DUP
SAMPLE

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 12:46
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 45.9%
pH: 6.6

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	50	260	
91-57-6	2-Methylnaphthalene	50	160	
90-12-0	1-Methylnaphthalene	50	80	
208-96-8	Acenaphthylene	50	45	J
83-32-9	Acenaphthene	50	1,400	
86-73-7	Fluorene	50	640	
85-01-8	Phenanthrene	50	5,200	E
120-12-7	Anthracene	50	1,200	
206-44-0	Fluoranthene	50	11,000	E
129-00-0	Pyrene	50	10,000	E
56-55-3	Benzo(a)anthracene	50	7,100	E
218-01-9	Chrysene	50	8,800	E
205-99-2	Benzo(b)fluoranthene	50	9,700	E
207-08-9	Benzo(k)fluoranthene	50	7,900	E
50-32-8	Benzo(a)pyrene	50	9,800	E
193-39-5	Indeno(1,2,3-cd)pyrene	50	5,400	E
53-70-3	Dibenz(a,h)anthracene	50	1,900	
191-24-2	Benzo(g,h,i)perylene	50	6,100	E
198-55-0	Perylene	50	3,000	
92-52-4	Biphenyl	50	< 50	U
581-42-0	2,6-Dimethylnaphthalene	50	95	
832-69-9	1-Methylphenanthrene	50	480	
192-97-2	Benzo(e)pyrene	50	5,800	E
2245-38-7	2,3,5-Trimethylnaphthalene	50	120	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracen	61.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060808.b/jq52a10.d
Lab Smp Id: JQ52A Client Smp ID: T4-S3-02-F-DUP
Inj Date : 08-AUG-2006 12:46
Operator : VTS Inst ID: nt1.i
Smp Info : JQ52A,10
Misc Info : 06-13102
Comment : 1ul Injection
Method : /chem3/nt1.i/20060808.b/simpna.m
Meth Date : 09-Aug-2006 11:00 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 7
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	18.50000	Weight of sample extracted (g)
M	45.90000	% 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	6.884	6.884	(1.000)	281092	2.00000	
2 Naphthalene	128	6.902	6.907	(1.003)	74381	0.53051	265.0
$ 3 2-Methylnaphthalene-d10	152	7.641	7.640	(1.110)	14919	0.20606	102.9
4 2-Methylnaphthalene	142	7.676	7.676	(1.115)	26391	0.31784	158.8
5 1-Methylnaphthalene	142	7.806	7.806	(1.134)	14273	0.16388	81.87
7 Acenaphthylene	152	8.763	8.763	(0.980)	10456	0.08541	42.67 J
* 8 Acenaphthene-d10	164	8.947	8.946	(1.000)	147661	2.00000	
9 Acenaphthene	153	8.982	8.982	(1.004)	199303	2.74886	1373
10 Dibenzofuran	168	9.171	9.171	(1.025)	52093	0.48778	243.7
11 Fluorene	166	9.597	9.596	(1.073)	106124	1.27646	637.7
* 15 Phenanthrene-d10	188	10.761	10.755	(1.000)	243797	2.00000	
16 Phenanthrene	178	10.791	10.784	(1.003)	1314314	10.5030	5247 E
17 Anthracene	178	10.844	10.843	(1.008)	290838	2.32570	1162
19 Fluoranthene	202	12.286	12.280	(1.142)	2897576	22.7017	11340 E

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
20 Pyrene	202	12.575	12.569	(0.893)	2896440	20.3377	10160	E
22 Benzo(a)anthracene	228	14.059	14.047	(0.999)	1908889	14.2926	7140	E
* 23 Chrysene-d12	240	14.077	14.070	(1.000)	221789	2.00000		
24 Chrysene	228	14.112	14.100	(1.003)	2170046	17.6157	8800	E
28 Benzo(b)fluoranthene	252	15.466	15.441	(0.965)	2482887	19.4080	9696	E
29 Benzo(k)fluoranthene	252	15.489	15.477	(0.966)	2156333	15.8104	7898(H)	E
30 Benzo(a)pyrene	252	15.962	15.938	(0.996)	2445462	19.6176	9800	E
* 31 Perylene-d12	264	16.033	16.021	(1.000)	226677	2.00000		
33 Indeno(1,2,3-cd)pyrene	276	18.019	17.989	(1.124)	1538853	10.7346	5363	E
$ 32 Dibenz(a,h)anthrancene-d14	292	17.924	17.912	(1.118)	15856	0.18278	91.31(M)	
34 Dibenz(a,h)anthracene	278	18.001	17.977	(1.123)	436547	3.72764	1862	
35 Benzo(g,h,i)perylene	276	18.610	18.568	(1.161)	1443325	12.1120	6051	E
48 Biphenyl	154	8.214	8.213	(0.918)	7798	0.08547	42.70	J m
49 2,6-Dimethylnaphthalene	156	8.409	8.408	(0.940)	13930	0.19386	96.85	
50 2,3,5-Trimethylnaphthalene	170	9.431	9.431	(1.054)	13940	0.23685	118.3	
51 1-Methylphenanthrene	192	11.559	11.559	(0.821)	86673	0.95470	476.9	
52 Benzo(e)pyrene	252	15.879	15.861	(0.990)	1611146	11.6763	5833	E
53 Perylene	252	16.080	16.068	(1.003)	769586	5.94010	2968	

QC Flag Legend

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

VTS
8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq52a10.d
Lab Smp Id: JQ52A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13102

Calibration Date: 08-AUG-2006
Calibration Time: 09:27
Client Smp ID: T4-S3-02-F-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	260380	130190	520760	281092	7.95
8 Acenaphthene-d10	135690	67845	271380	147661	8.82
15 Phenanthrene-d10	210931	105466	421862	243797	15.58
23 Chrysene-d12	190595	95298	381190	221789	16.37
31 Perylene-d12	193807	96904	387614	226677	16.96

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	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.76	0.06
23 Chrysene-d12	14.07	13.57	14.57	14.08	0.05
31 Perylene-d12	16.02	15.52	16.52	16.03	0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

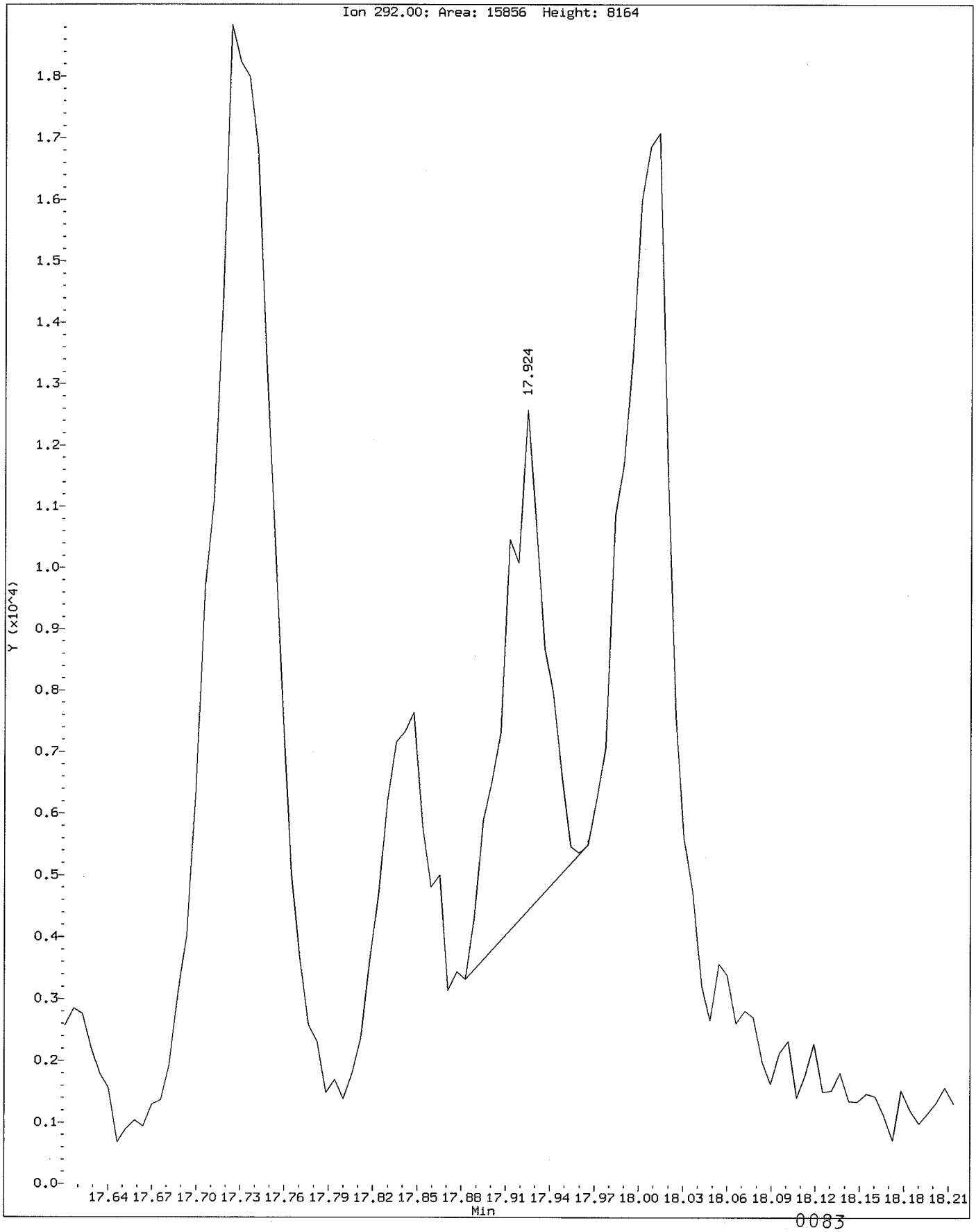
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52A
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13102

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-02-F-DUP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	149.9	102.9	68.69	32-97
$ 32 Dibenz(a,h)anthran	149.9	91.31	60.93	21-105

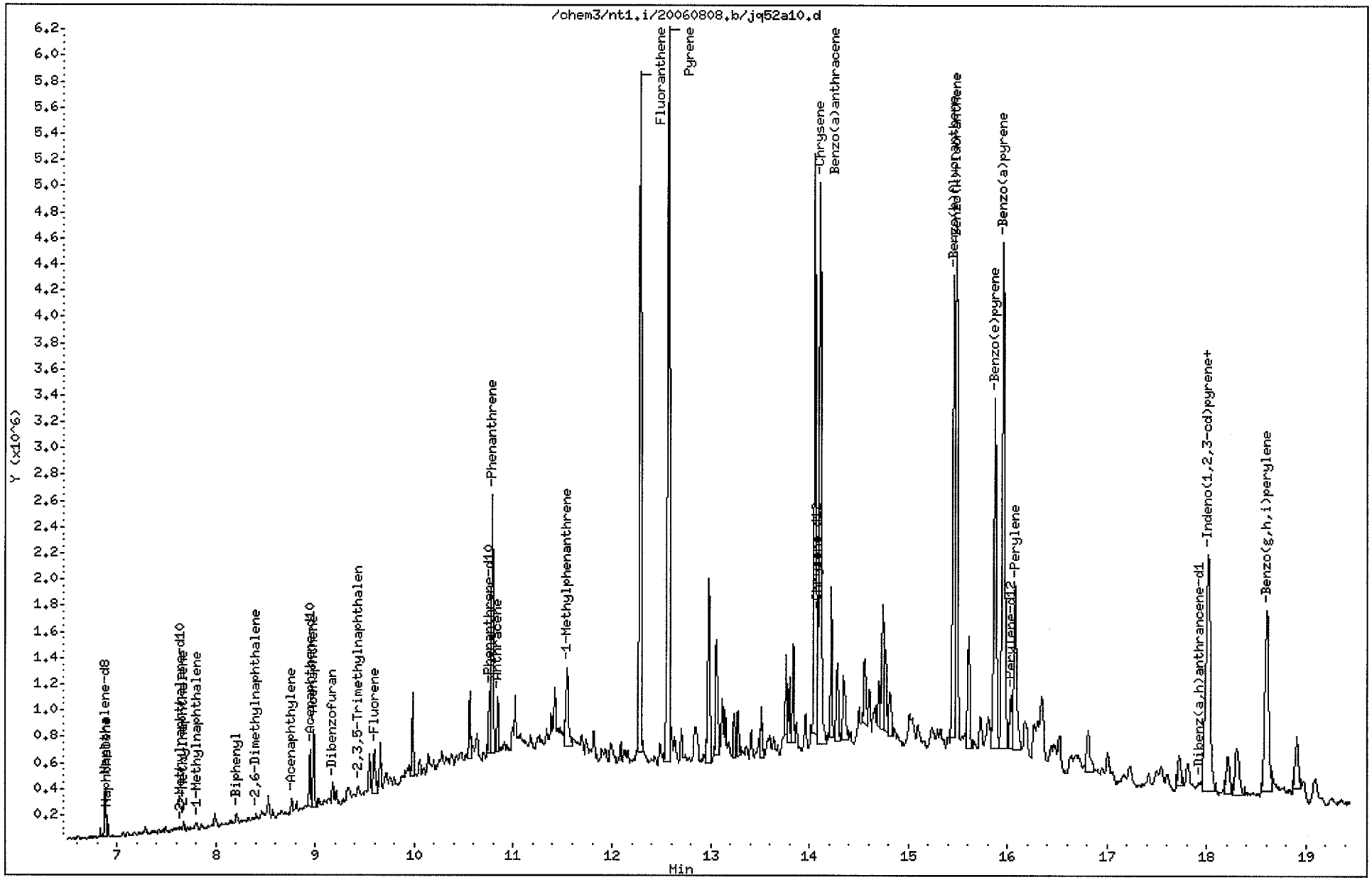
Data File: /chem3/nt1.i/20060808.b/jq52a10.d
Injection Date: 08-AUG-2006 12:46
Instrument: nt1.i
Client Sample ID: T4-S3-02-F-DUP

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



Data File: /chem3/nt1.i/20060808.b/jq52a10.d
Date : 08-AUG-2006 12:46
Client ID: T4-S3-02-F-DUP
Sample Info: JQ52A,10
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0084

Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

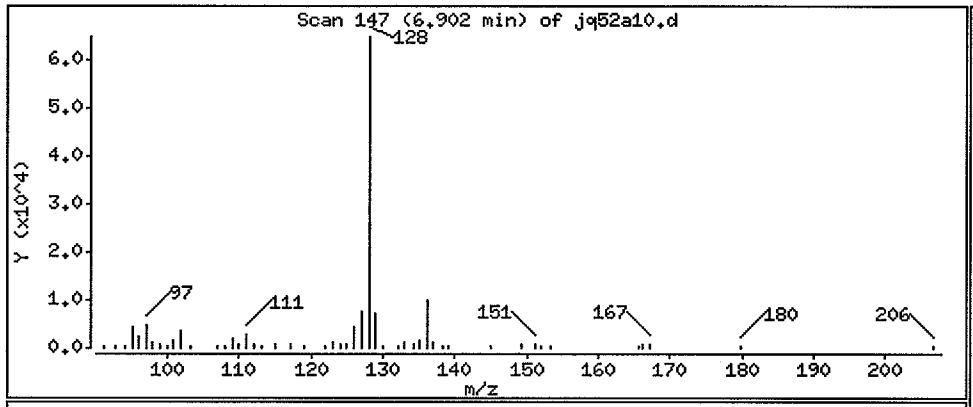
Operator: VTS

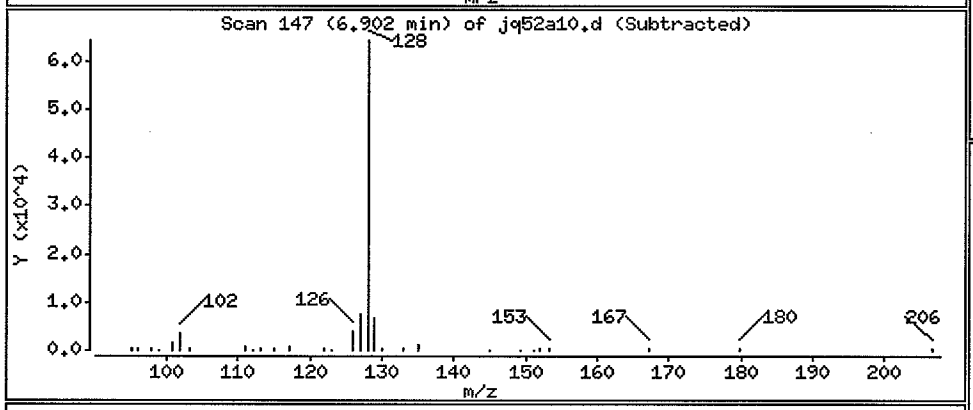
Column phase: ZB-5

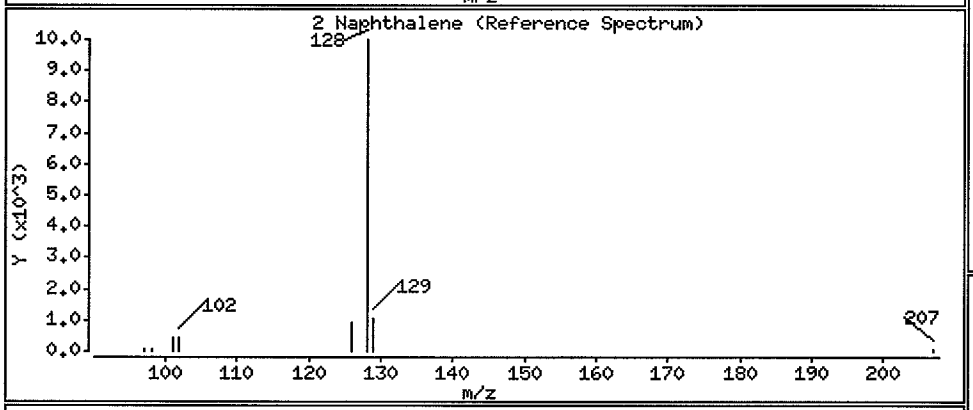
Column diameter: 0.25

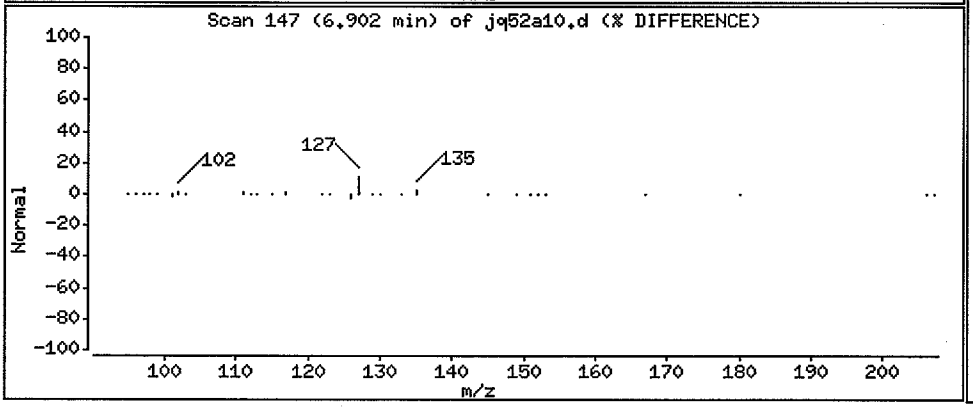
2 Naphthalene

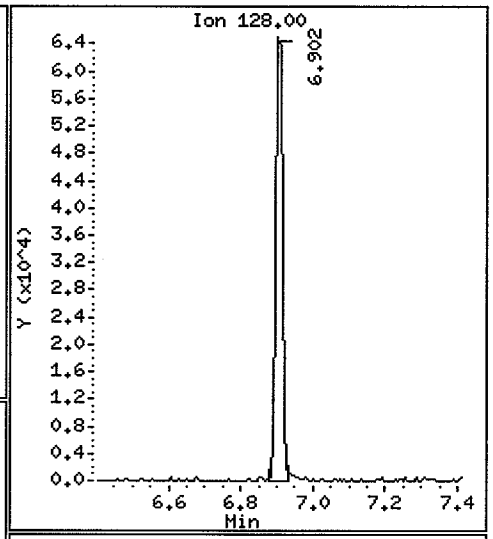
Concentration: 265.0 ug/kg

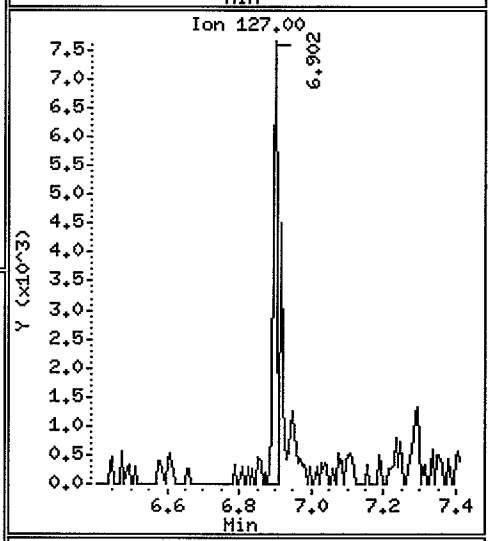


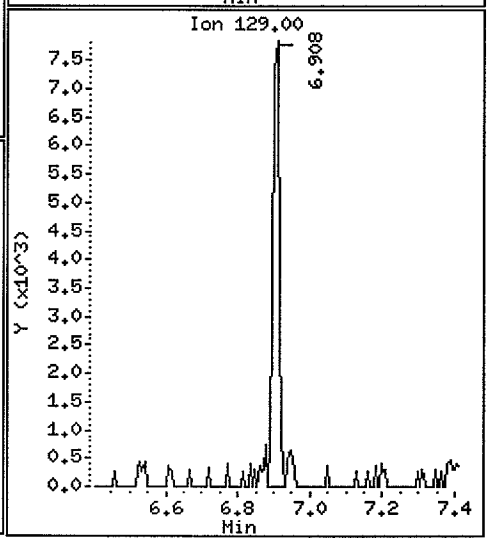












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

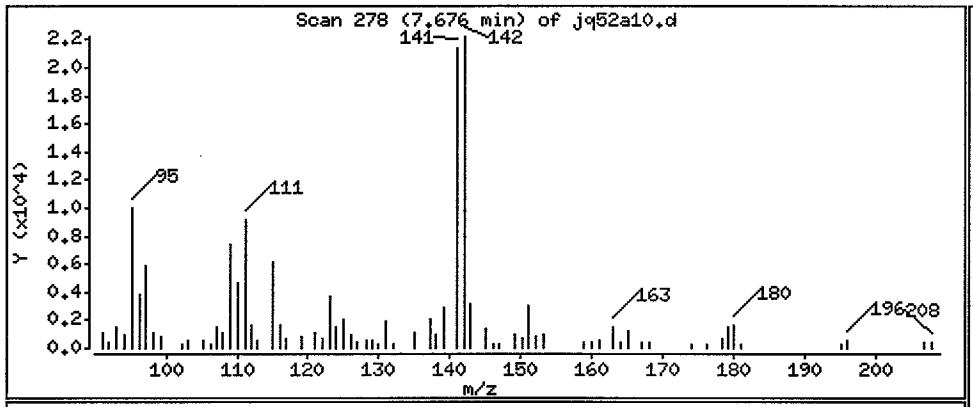
Operator: VTS

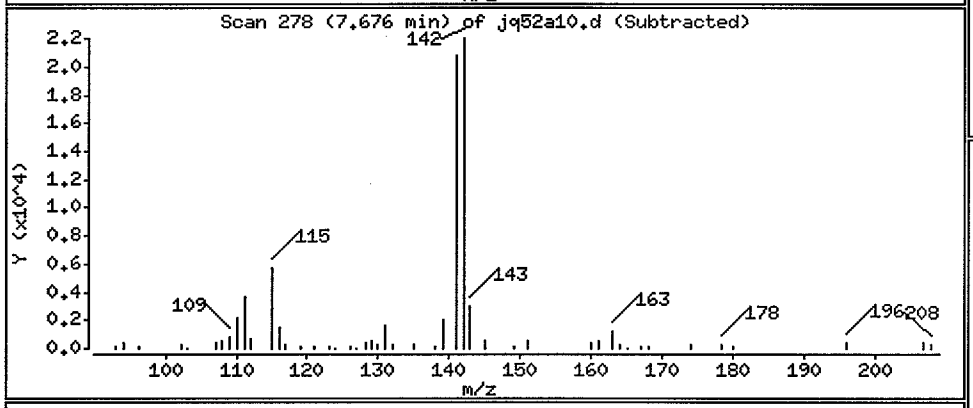
Column phase: ZB-5

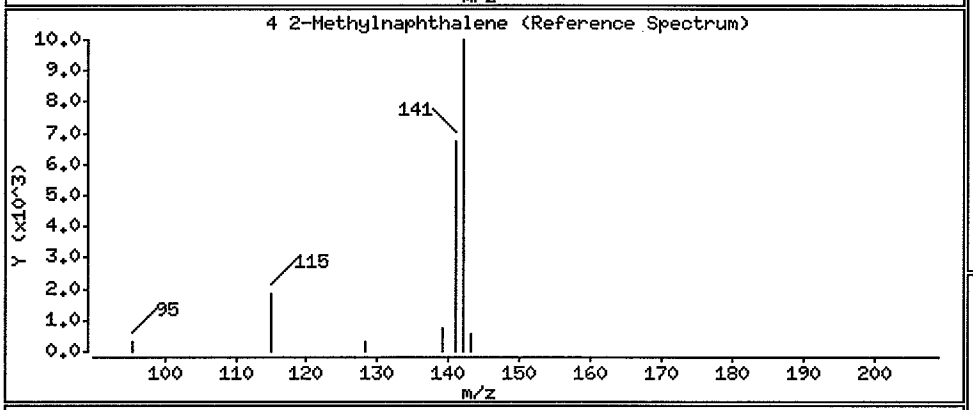
Column diameter: 0.25

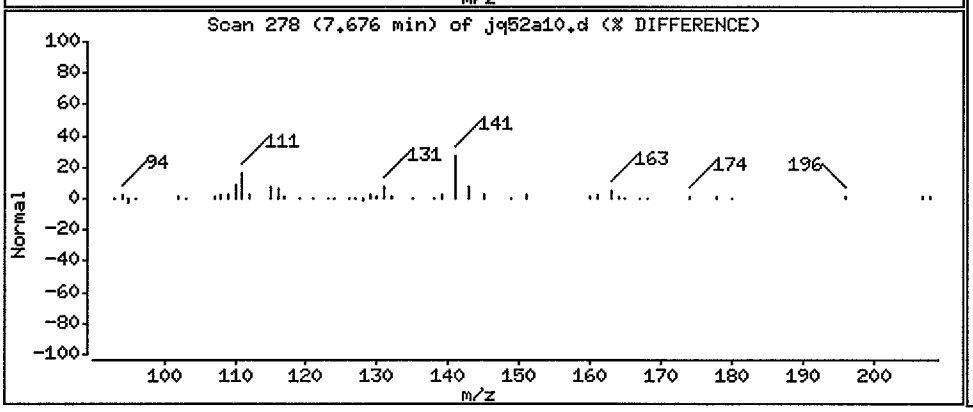
4 2-Methylnaphthalene

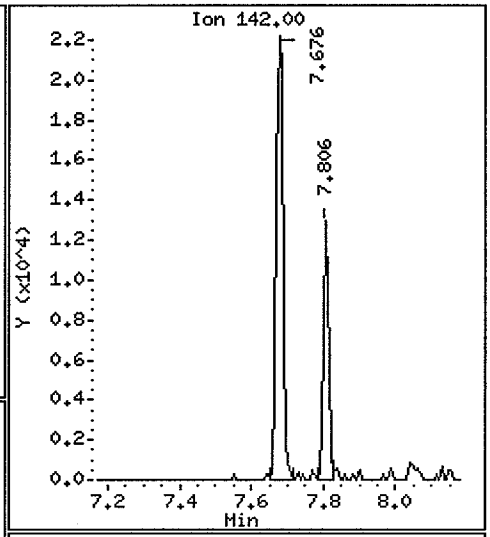
Concentration: 158.8 ug/kg

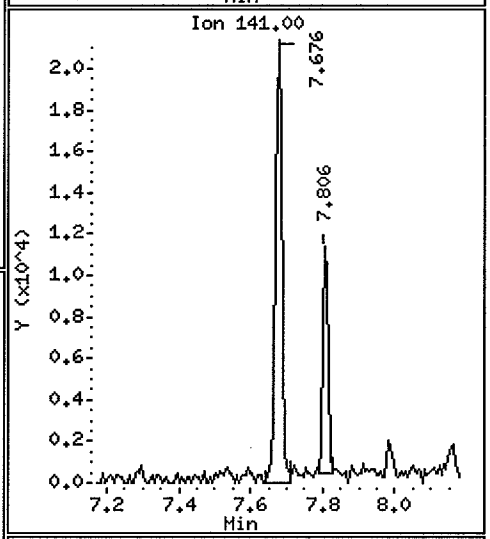


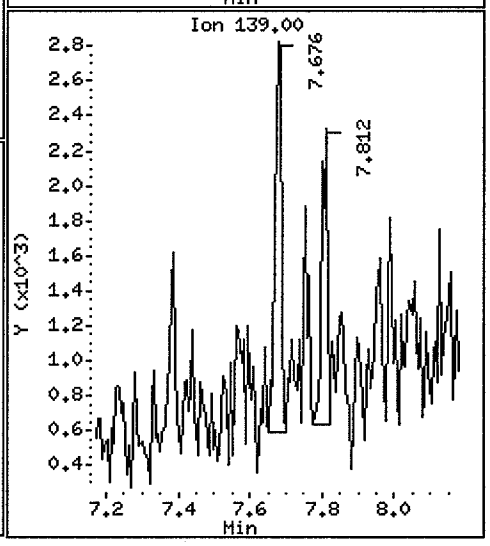












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

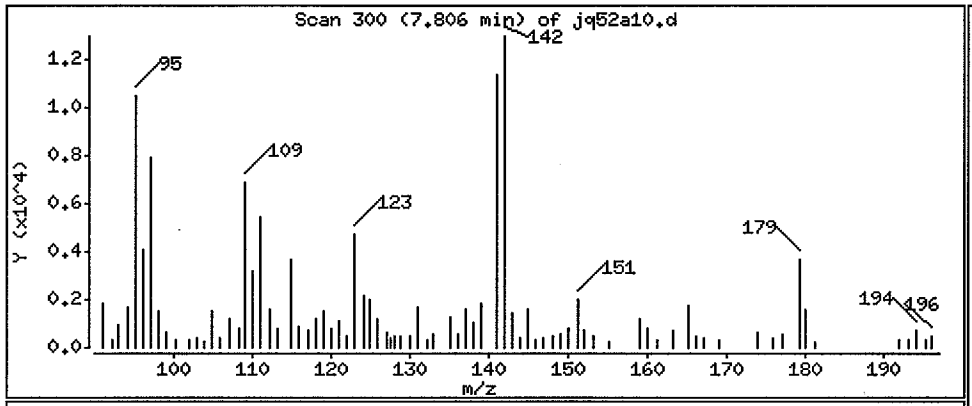
Operator: VTS

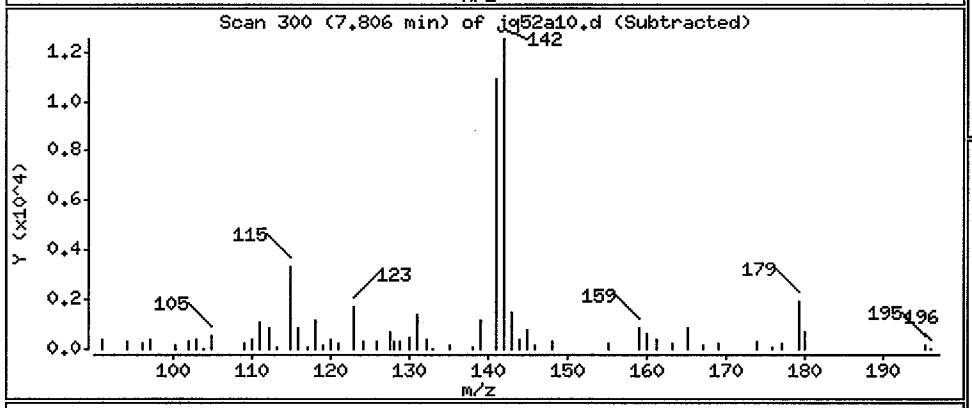
Column phase: ZB-5

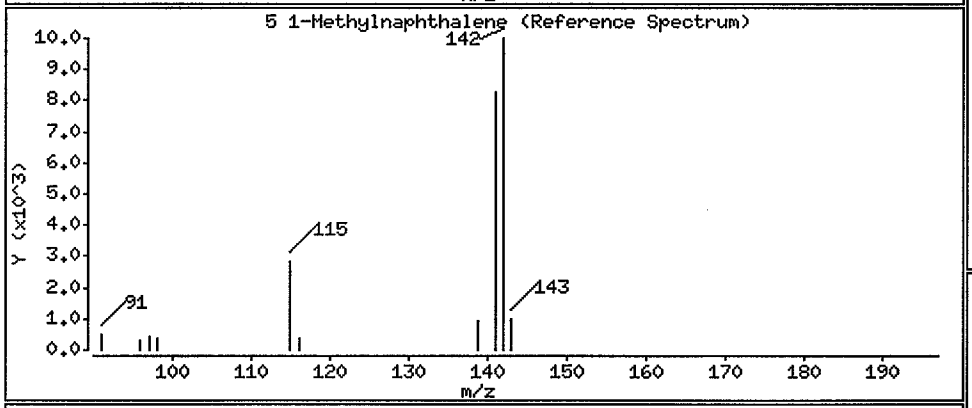
Column diameter: 0.25

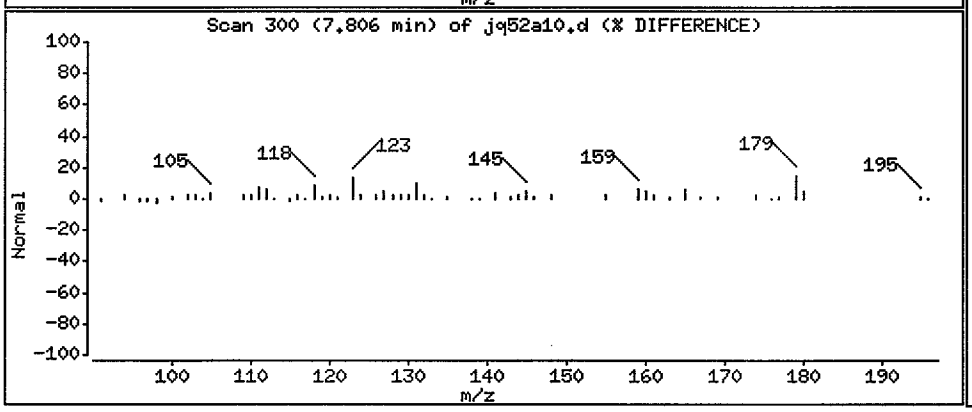
5 1-Methylnaphthalene

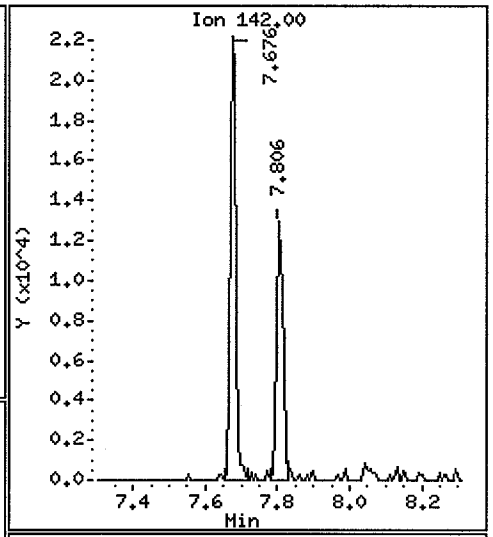
Concentration: 81.87 ug/kg

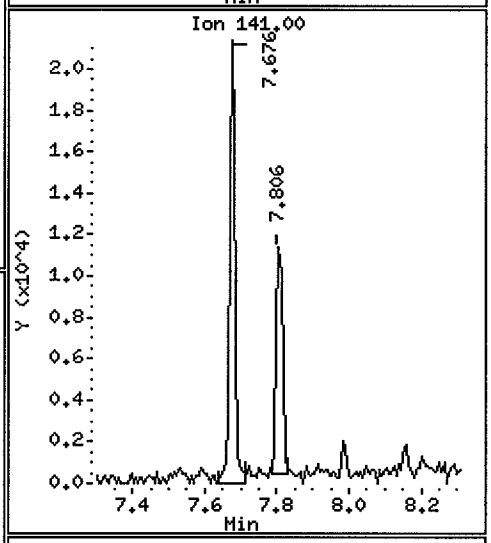


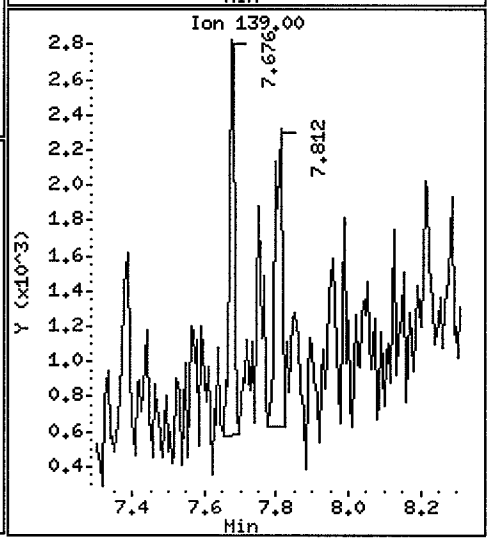












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

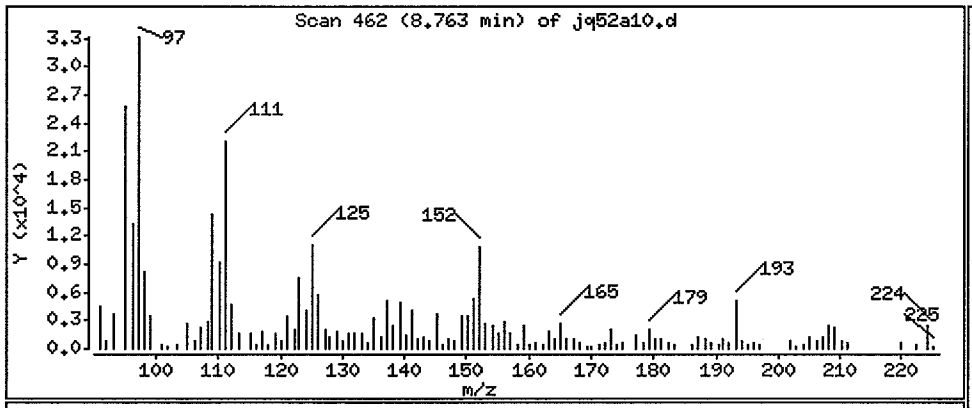
Column phase: ZB-5

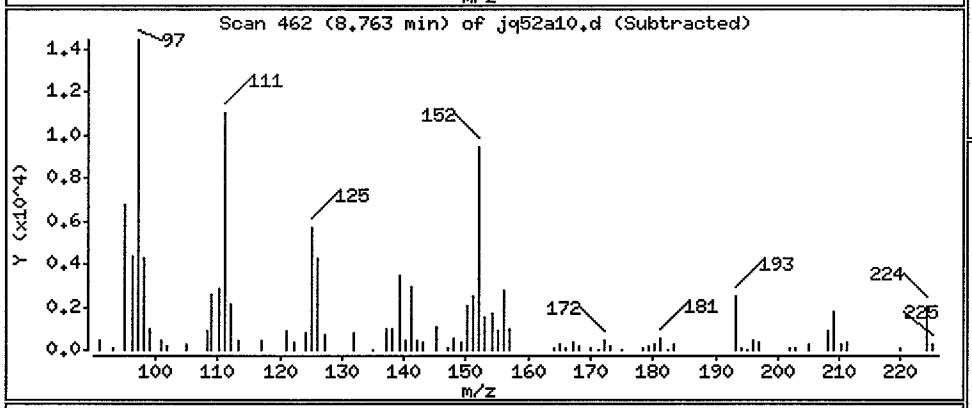
Column diameter: 0.25

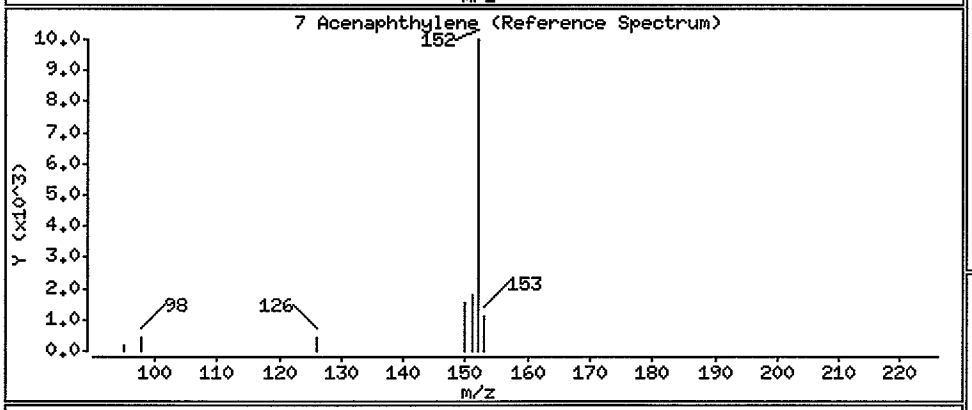
7 Acenaphthylene

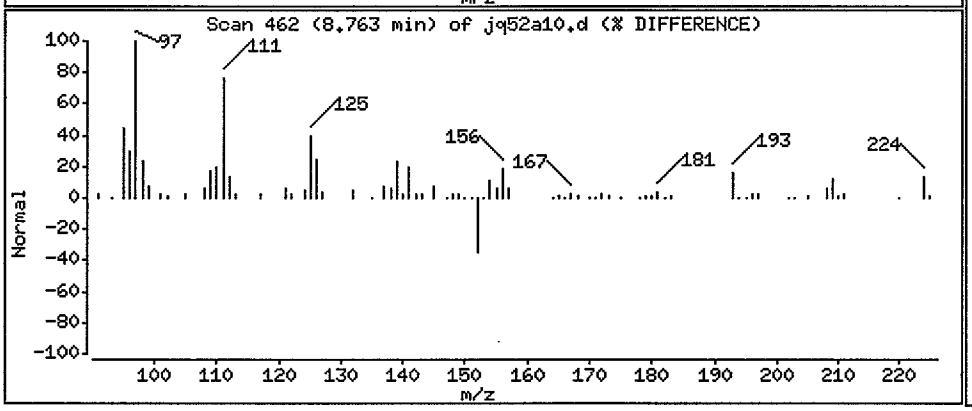
Concentration: 42.67 ug/kg

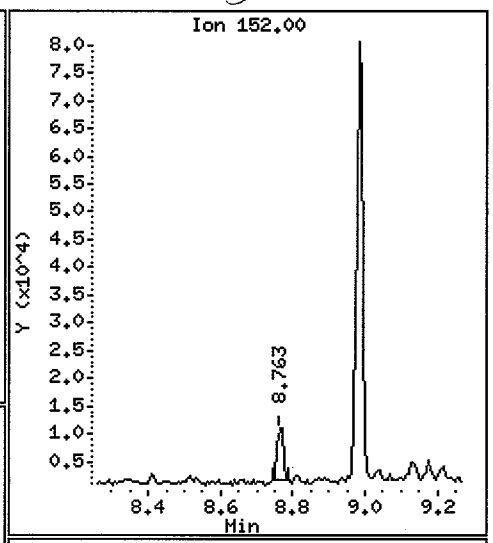
J CRL

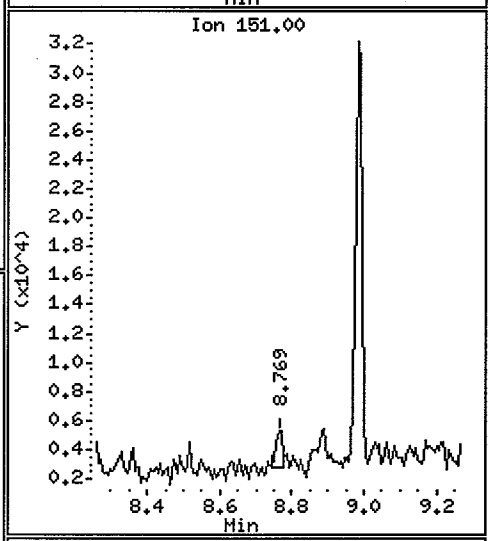


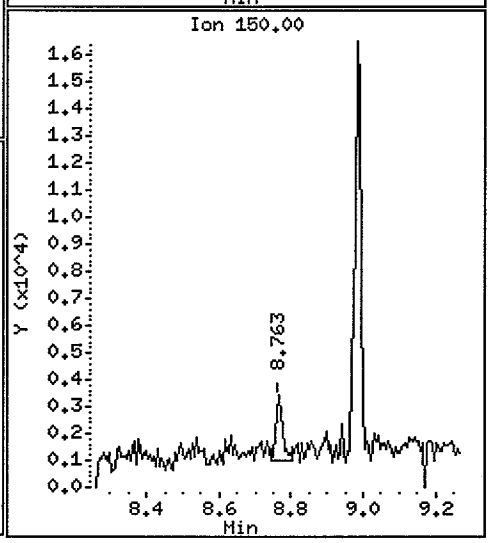












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

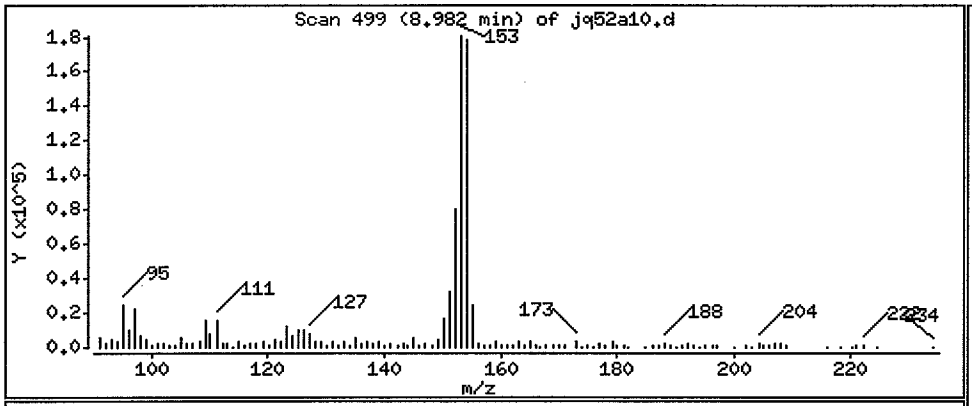
Operator: VTS

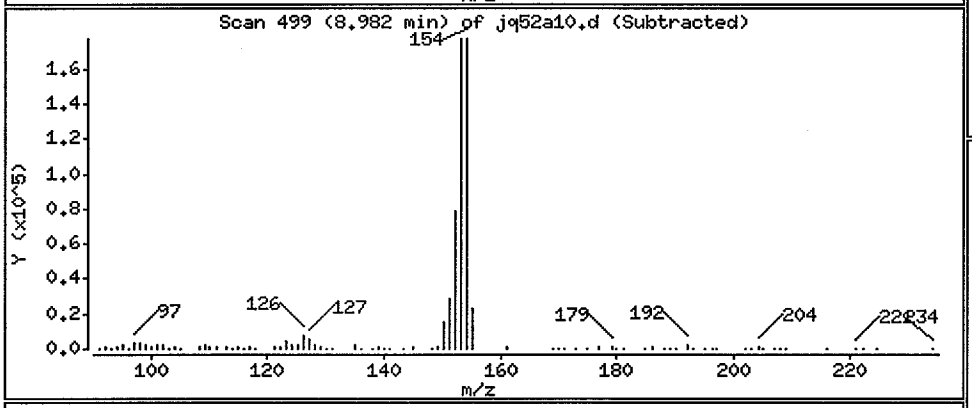
Column phase: ZB-5

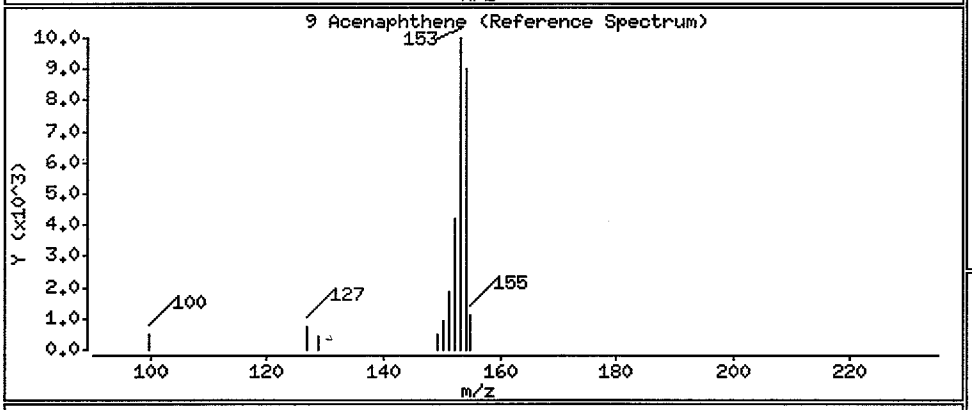
Column diameter: 0.25

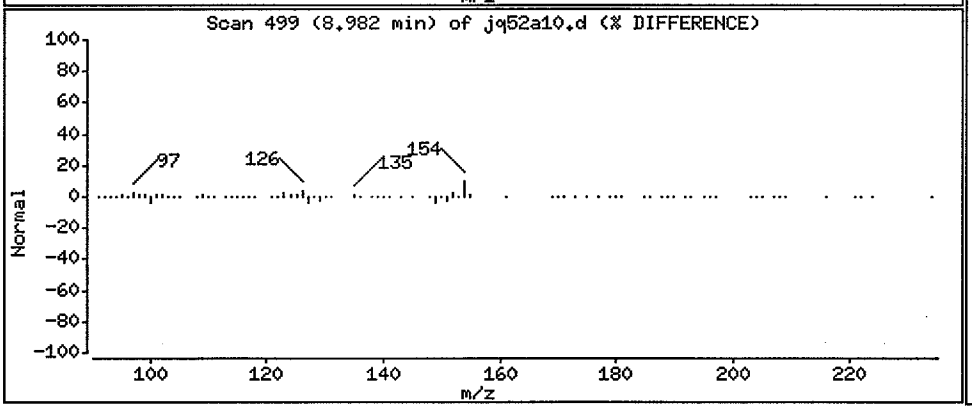
9 Acenaphthene

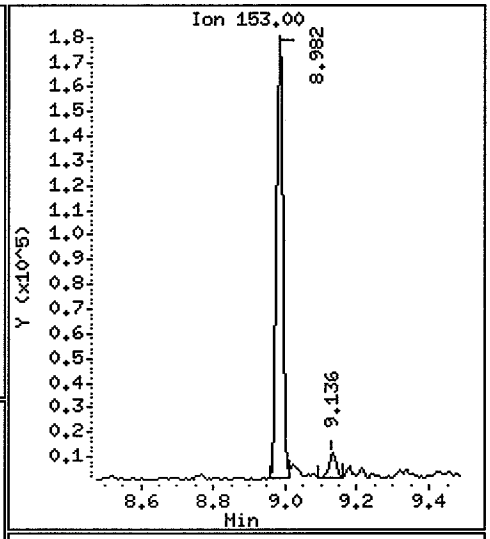
Concentration: 1373 ug/kg

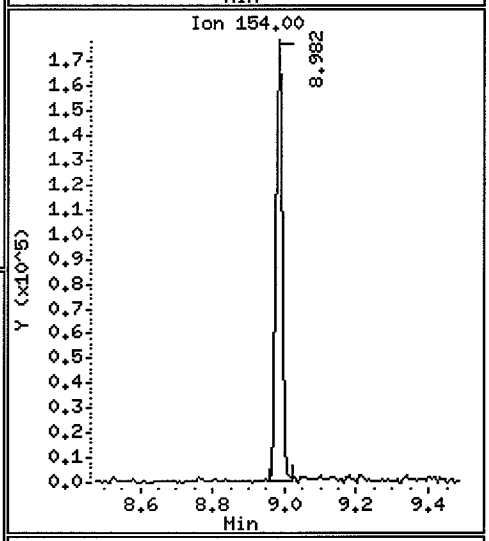


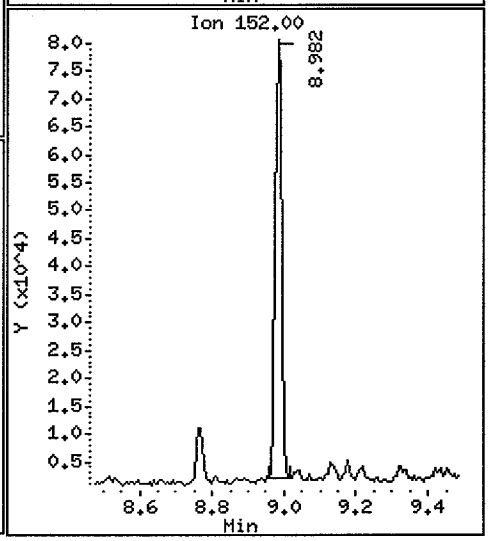












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

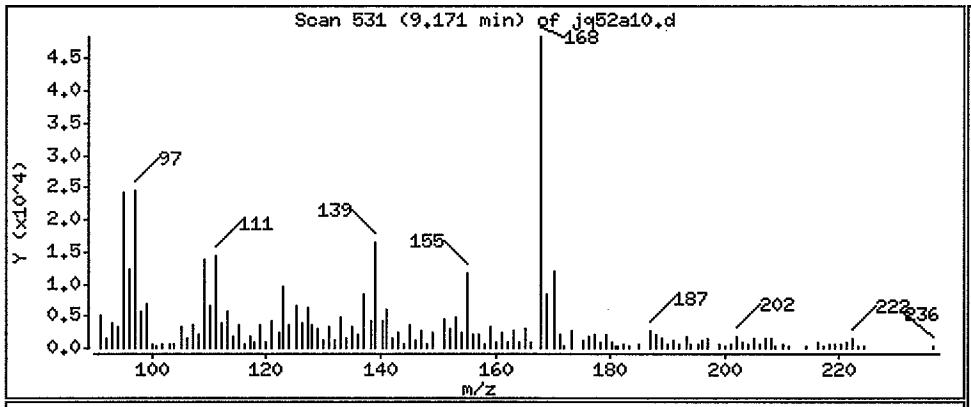
Column phase: ZB-5

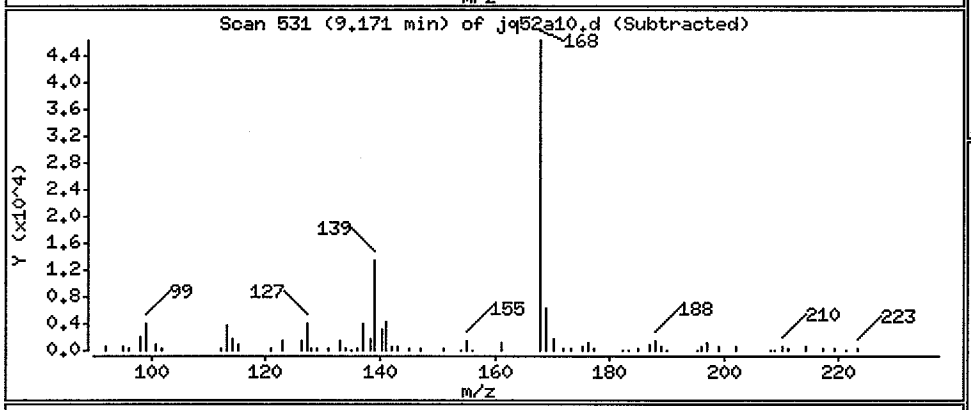
Column diameter: 0.25

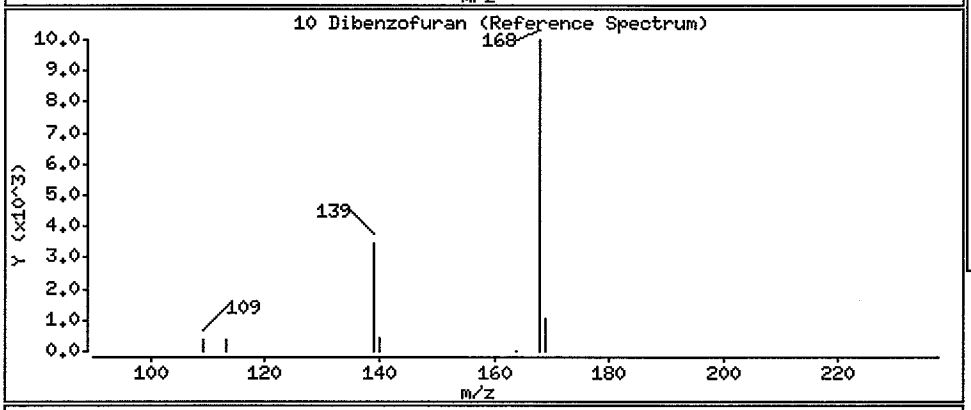
10 Dibenzofuran

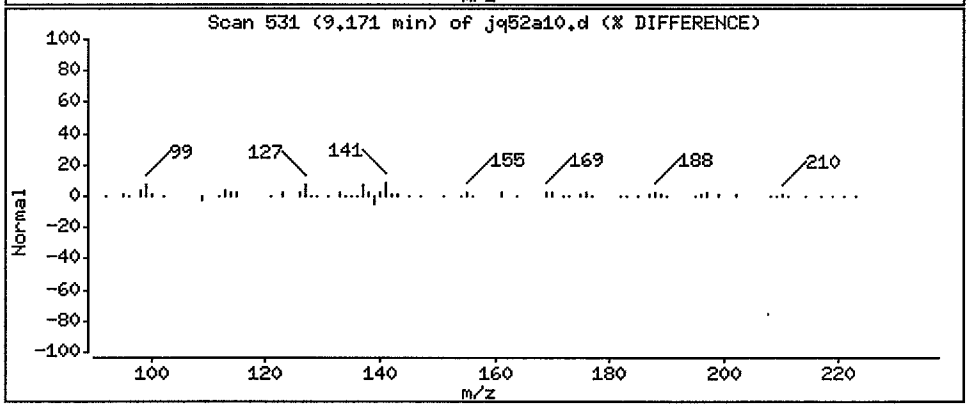
Concentration: 243.7 ug/kg

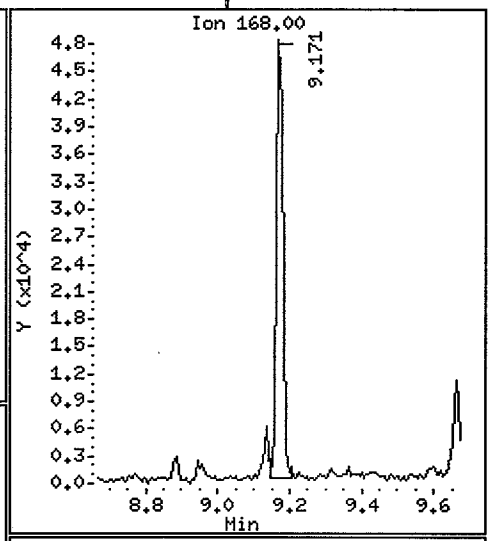
NR cpl

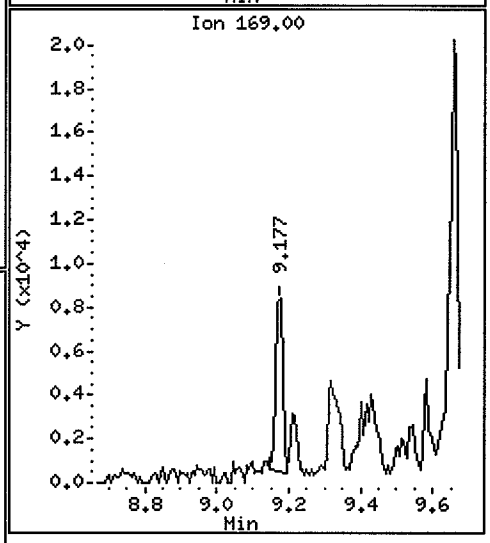












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

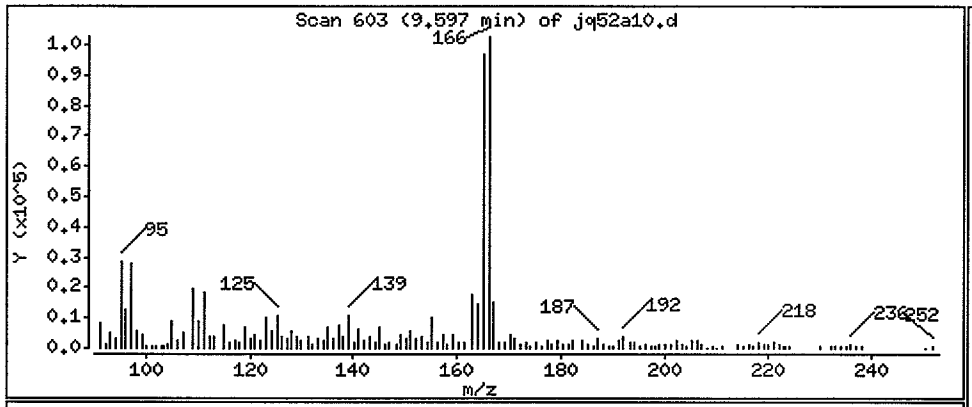
Operator: VTS

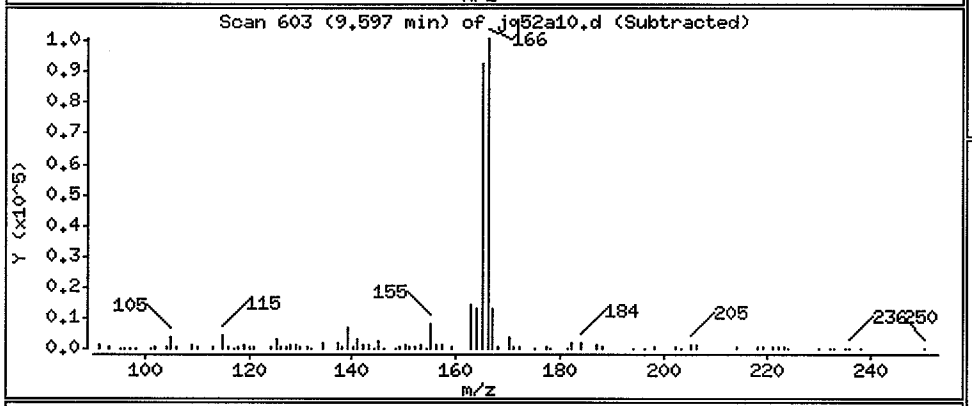
Column phase: ZB-5

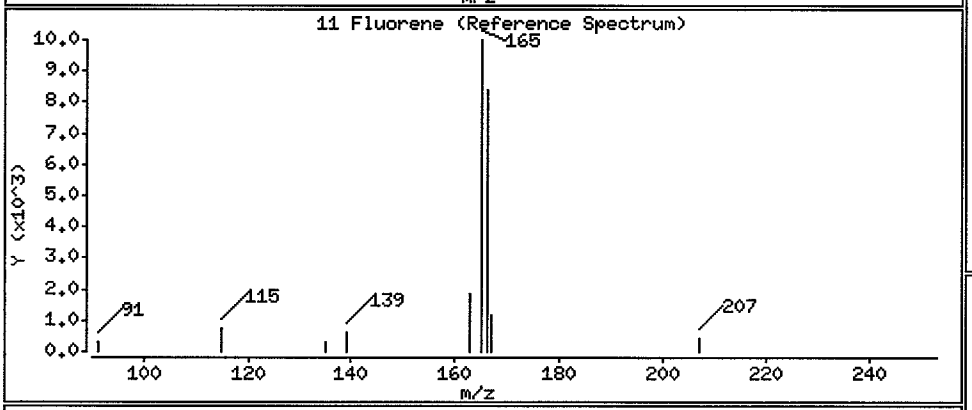
Column diameter: 0.25

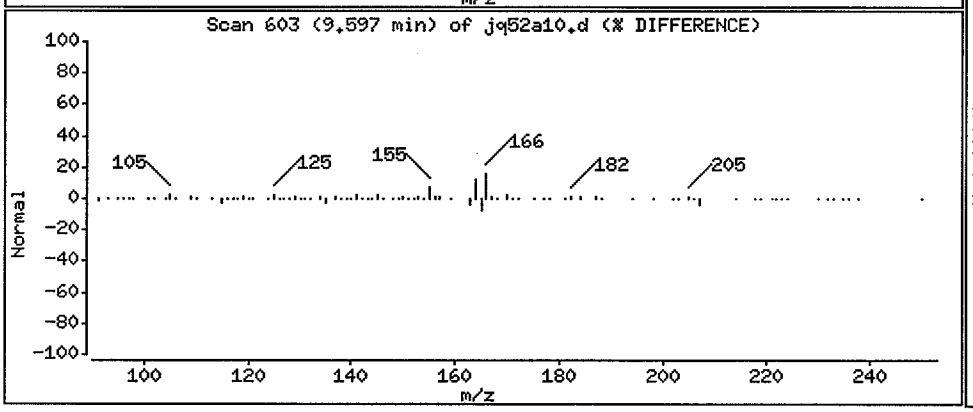
11 Fluorene

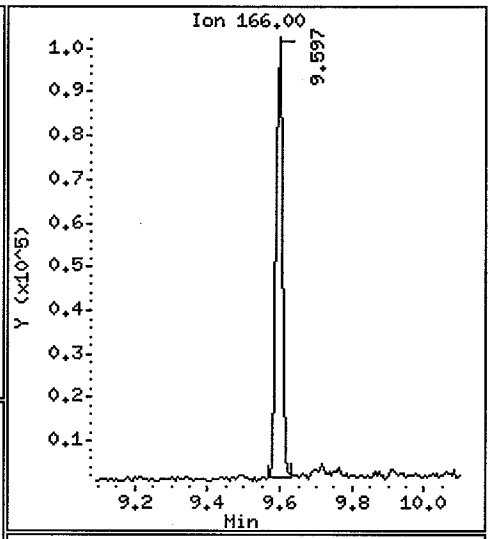
Concentration: 637.7 ug/kg

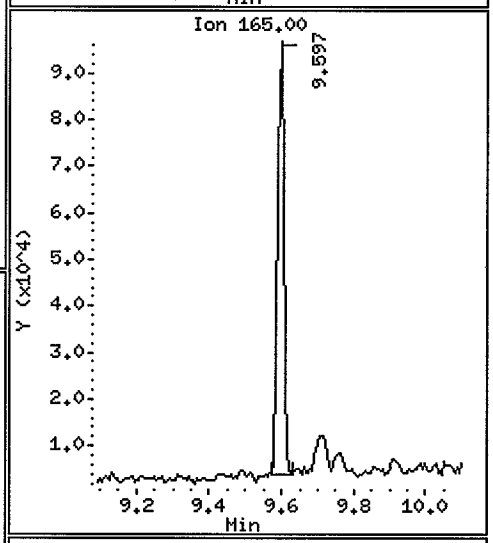


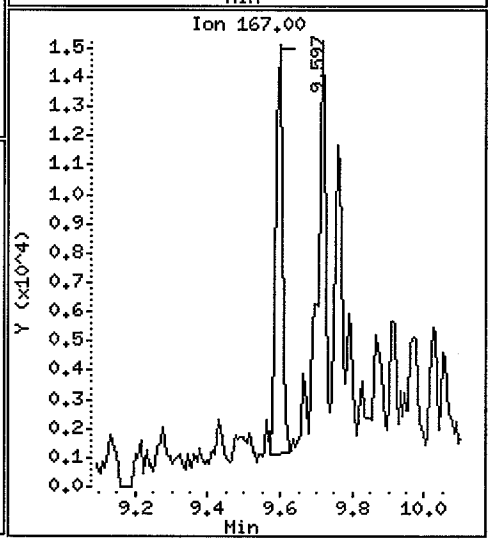












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

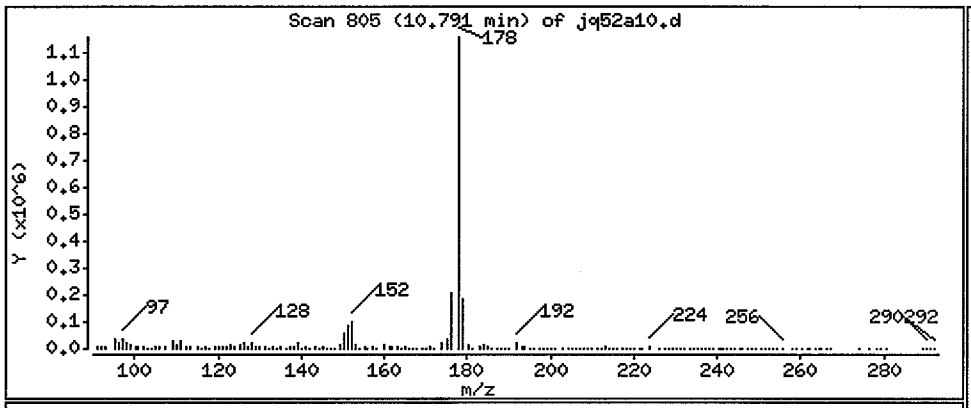
Column phase: ZB-5

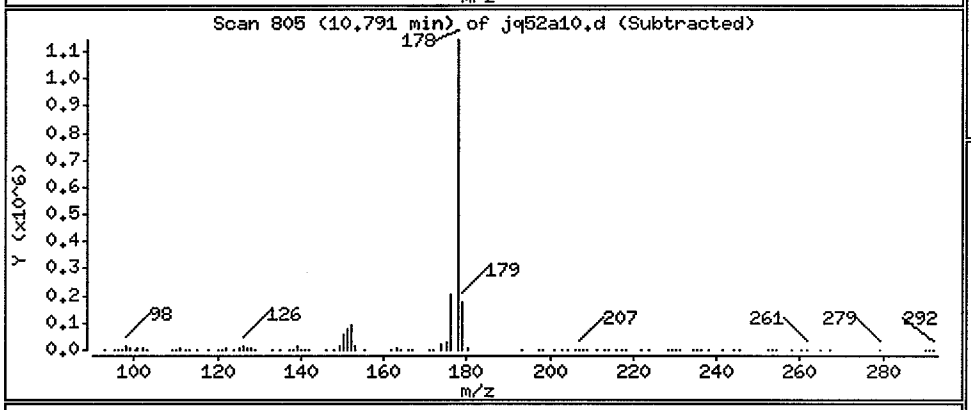
Column diameter: 0.25

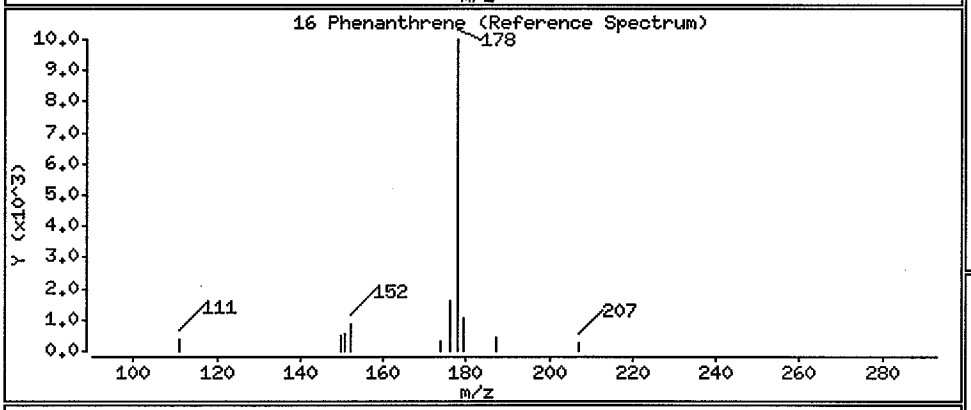
16 Phenanthrene

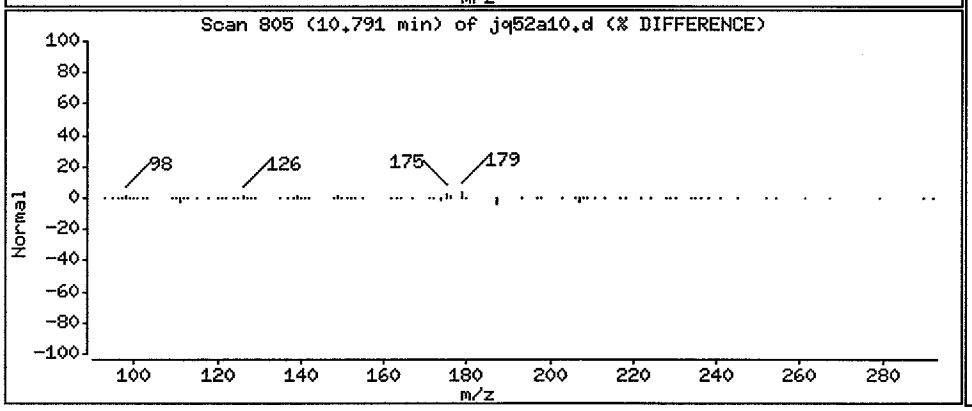
Concentration: 5247 ug/kg

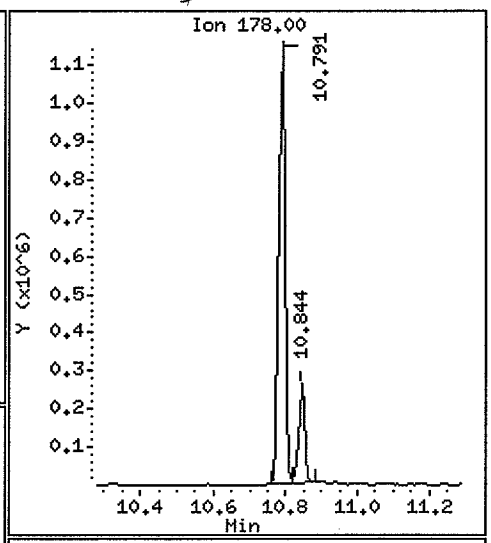
E

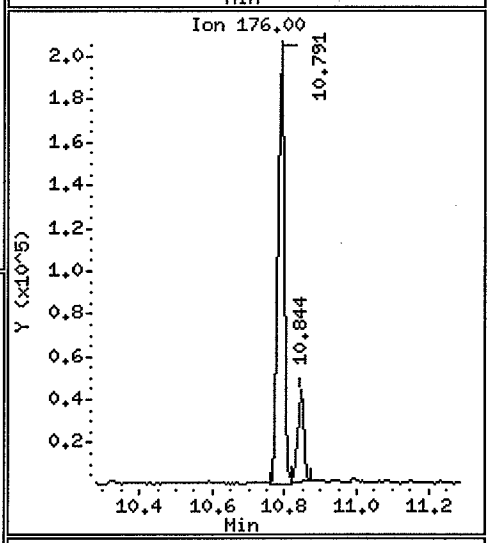


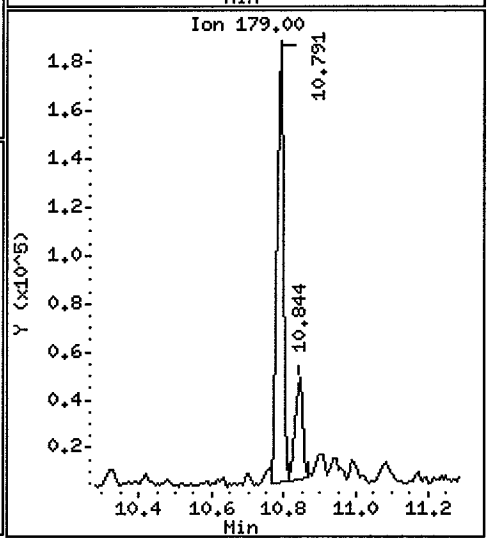












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

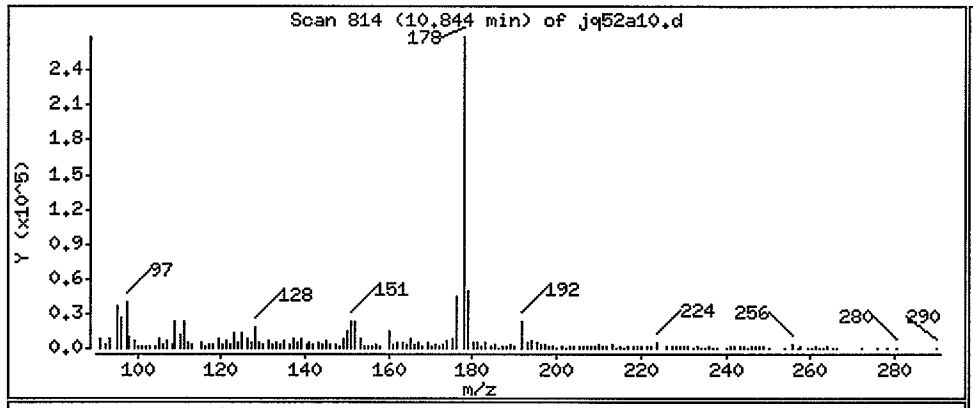
Operator: VTS

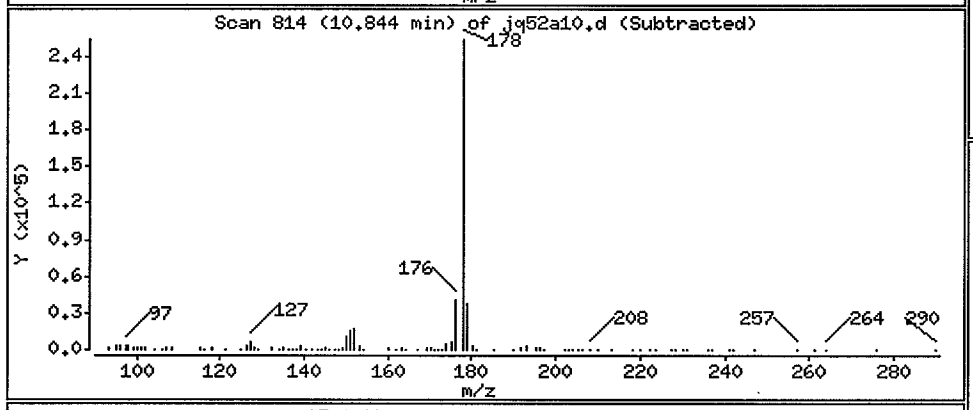
Column phase: ZB-5

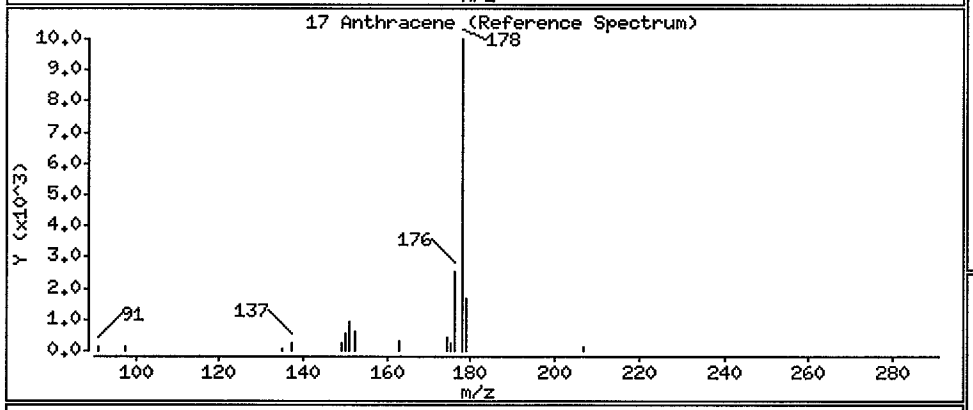
Column diameter: 0.25

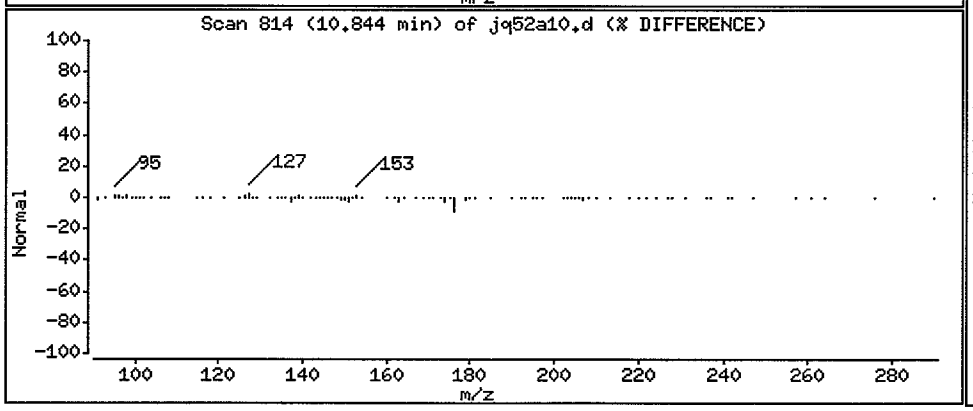
17 Anthracene

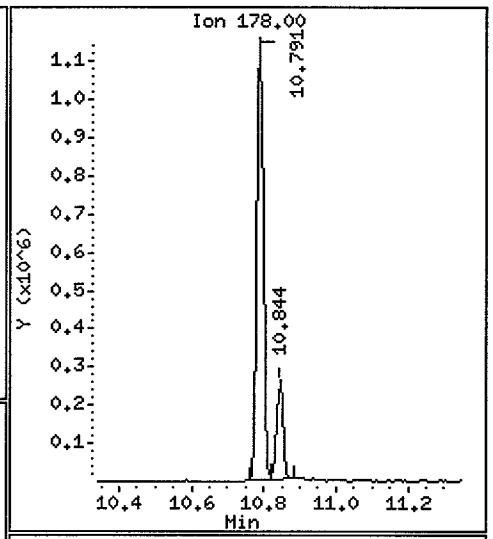
Concentration: 1162 ug/kg

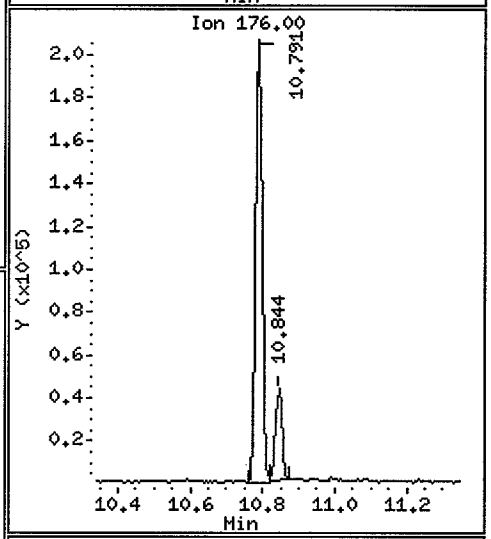


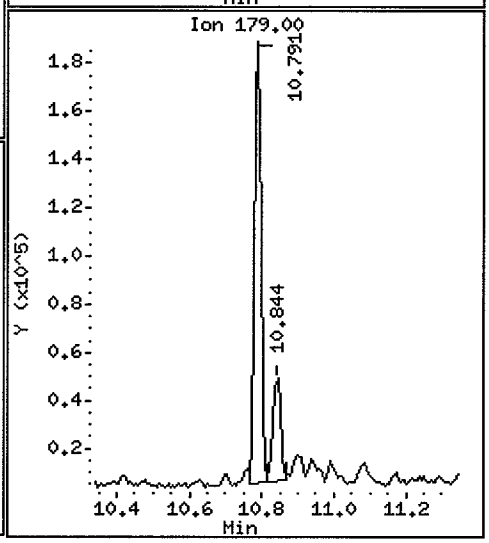












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

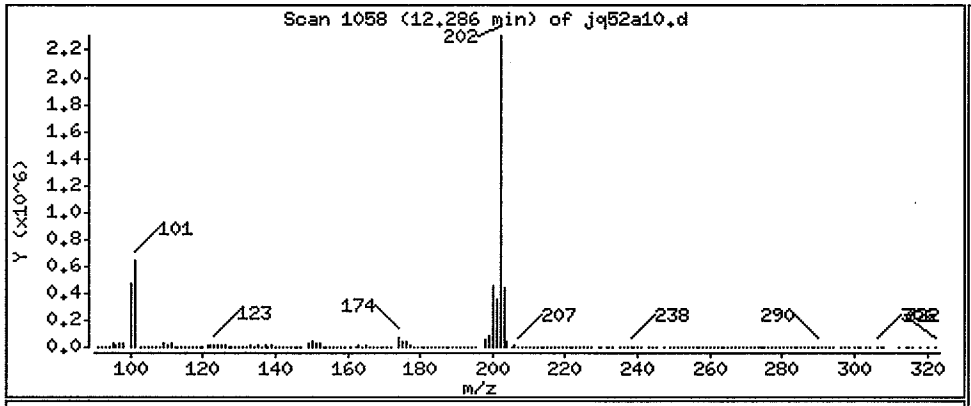
Column phase: ZB-5

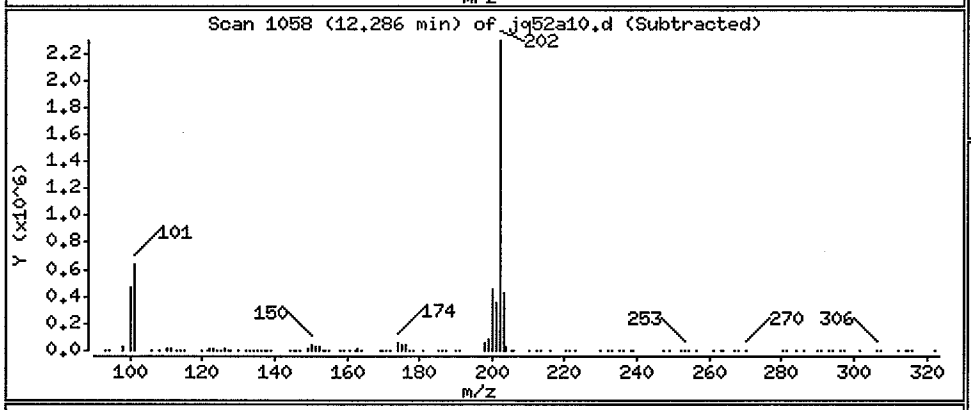
Column diameter: 0.25

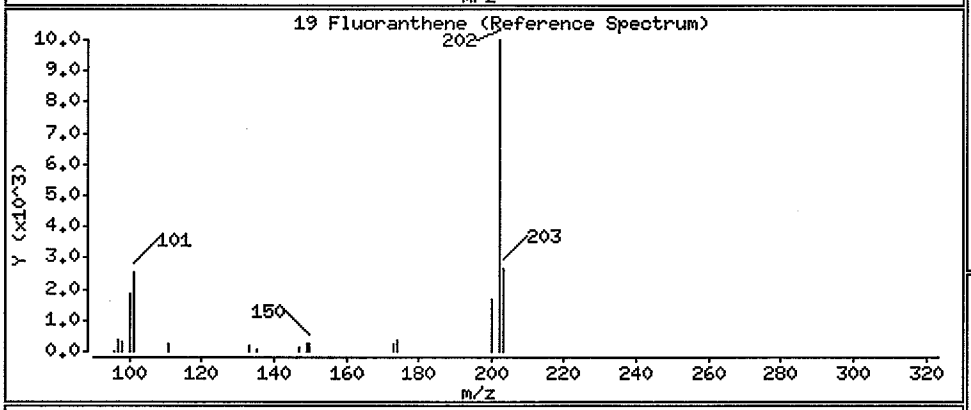
19 Fluoranthene

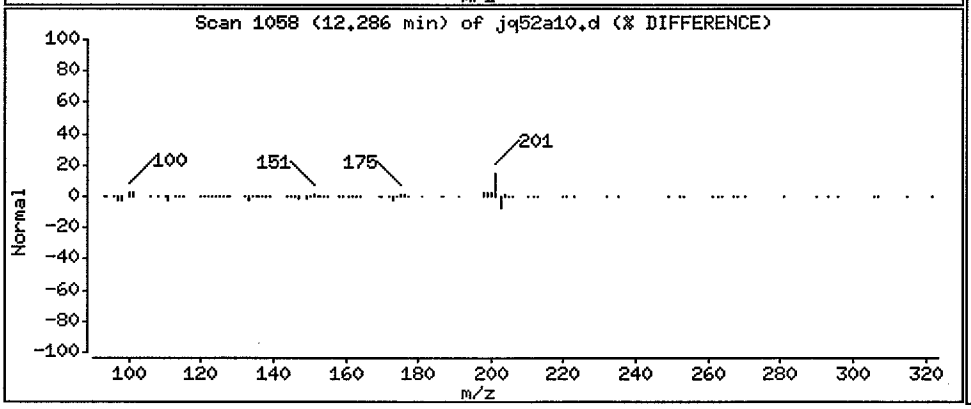
Concentration: 11340 ug/kg

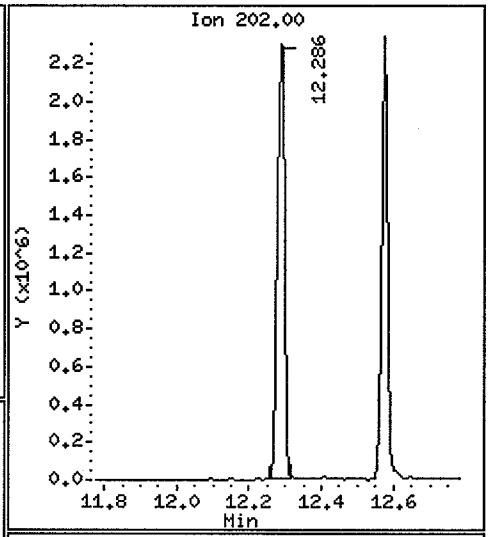
E

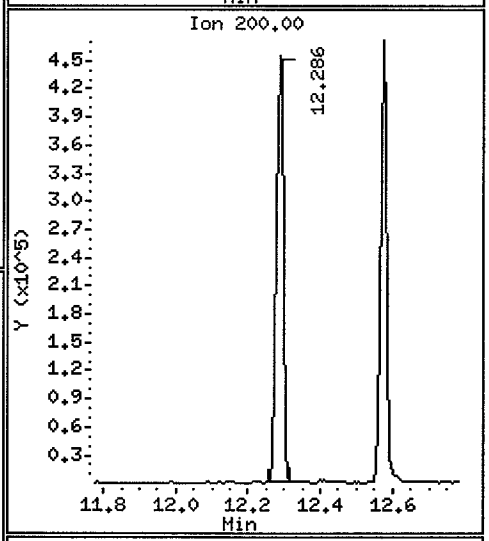


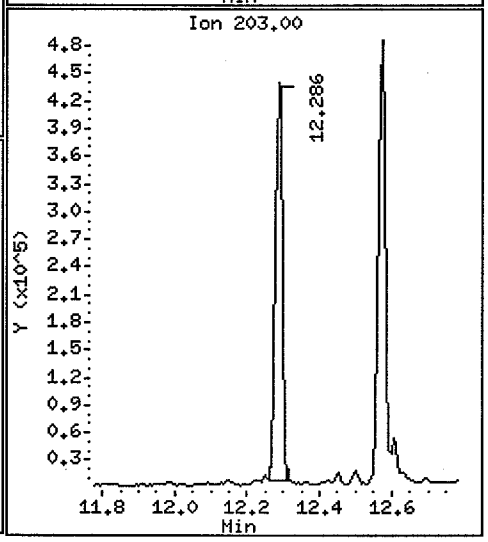












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

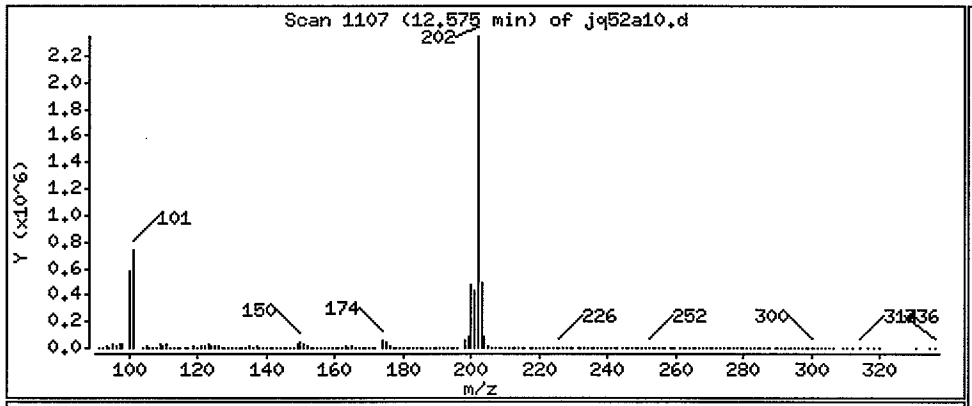
Operator: VTS

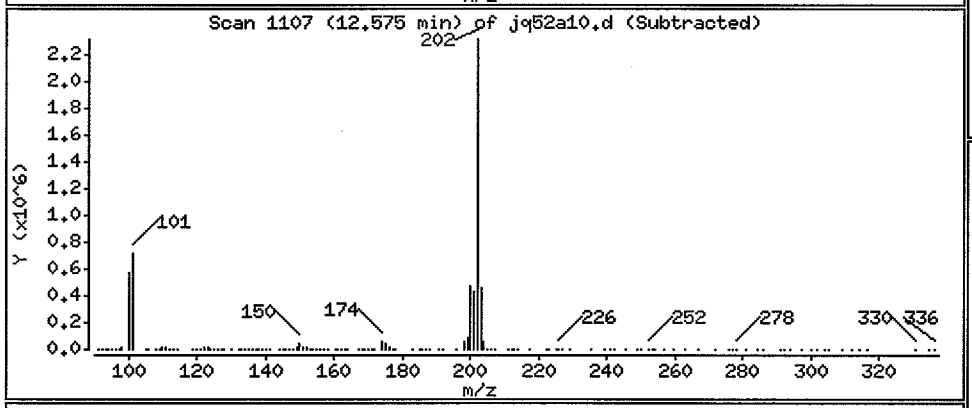
Column phase: ZB-5

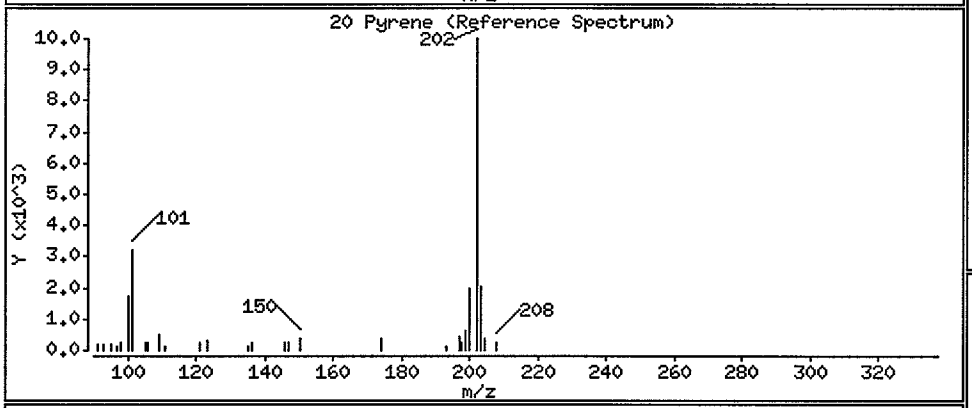
Column diameter: 0.25

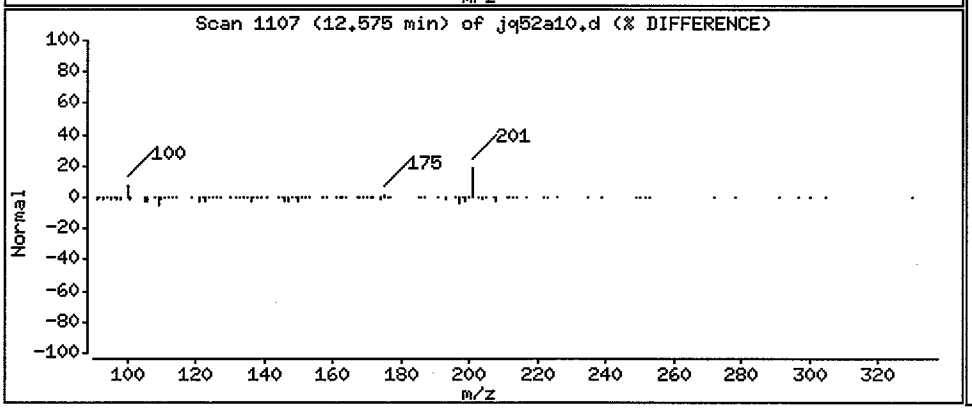
20 Pyrene

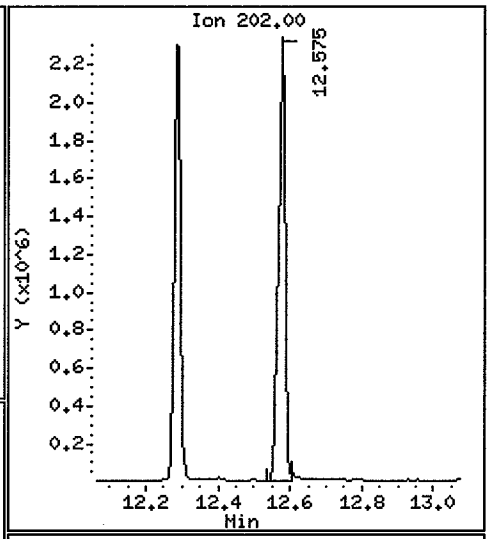
Concentration: 10160 ug/kg

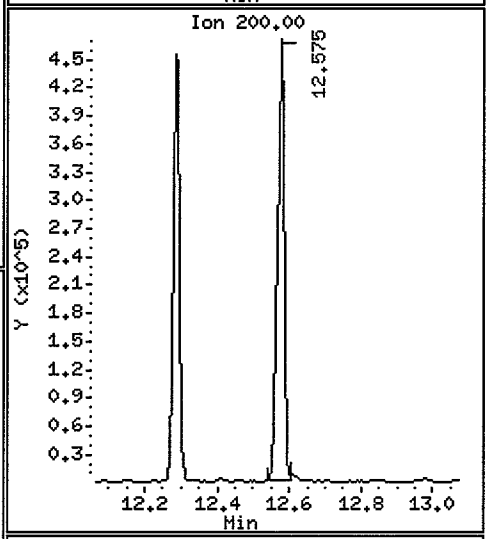


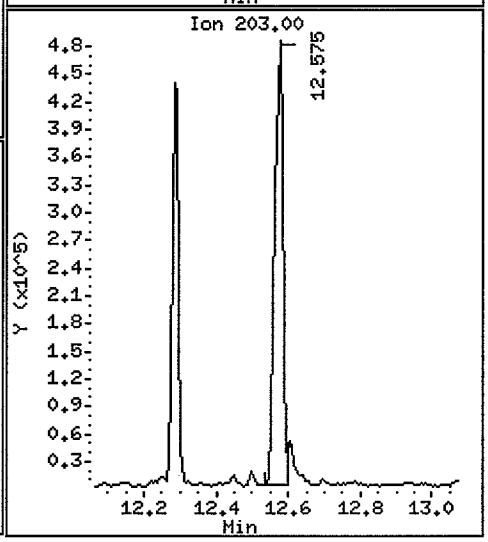












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

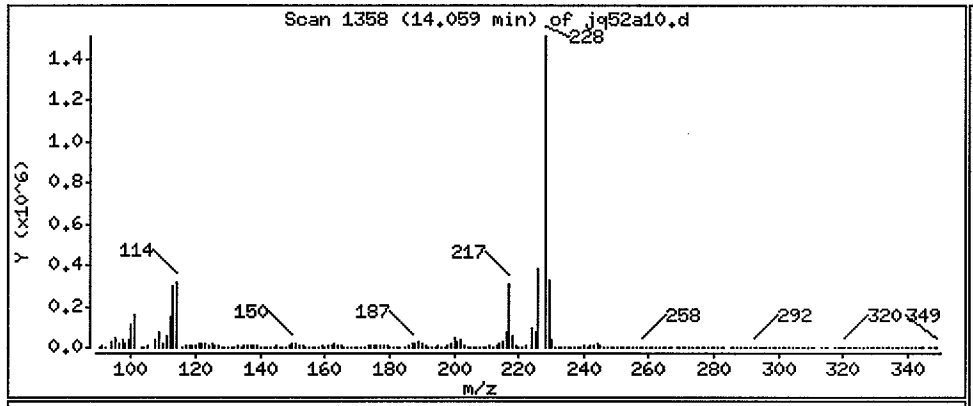
Column phase: ZB-5

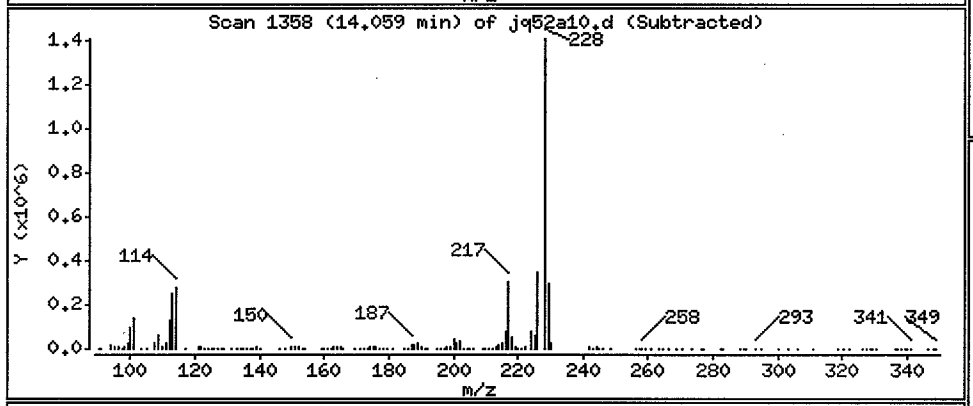
Column diameter: 0.25

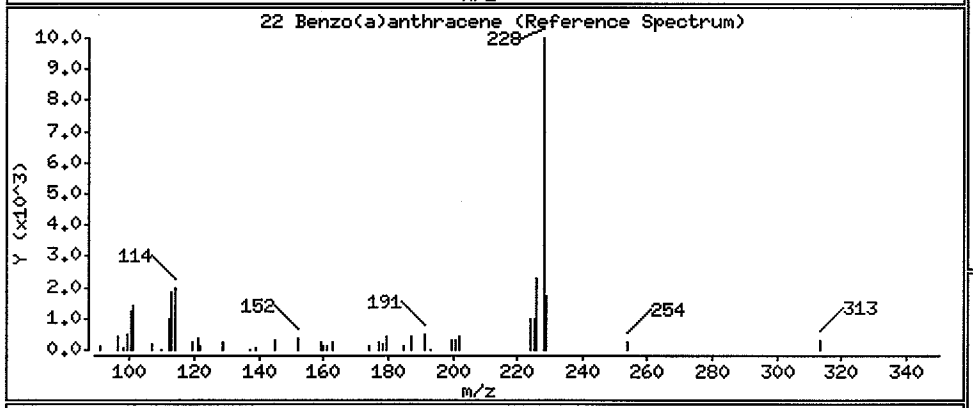
22 Benzo(a)anthracene

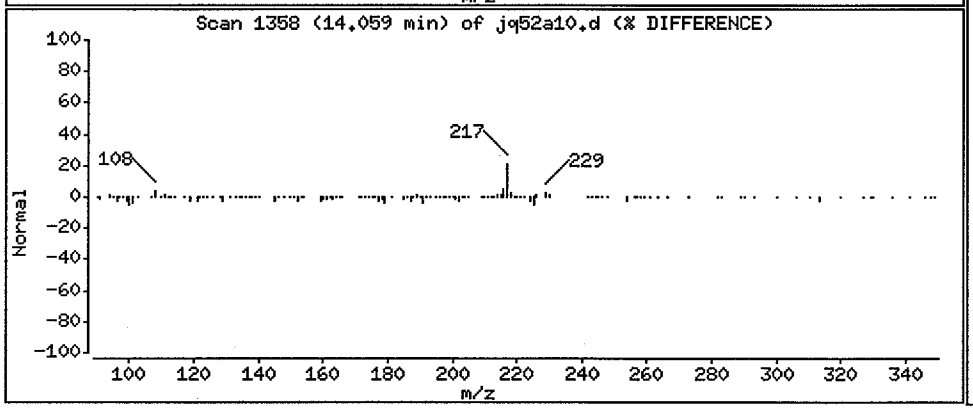
Concentration: 7140 ug/kg

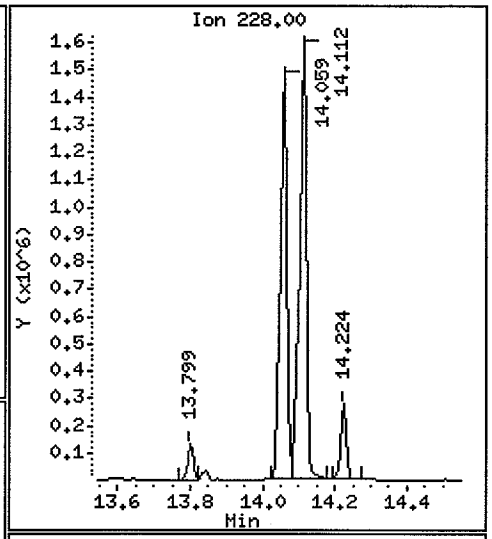
E

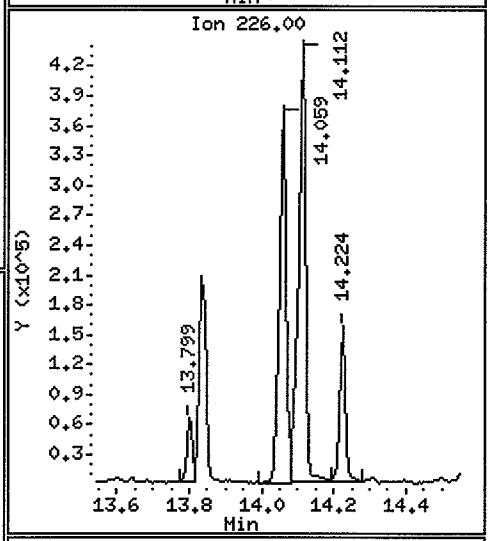


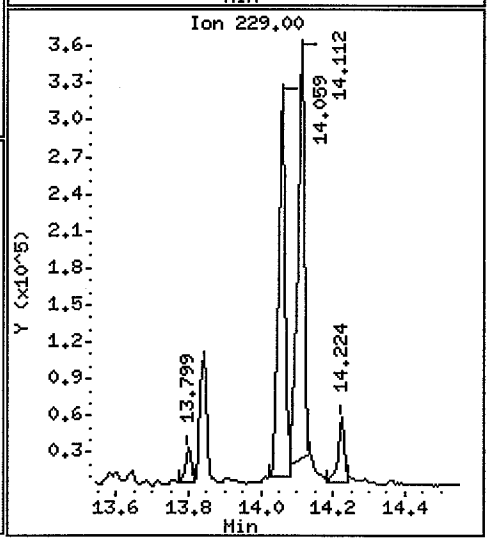












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

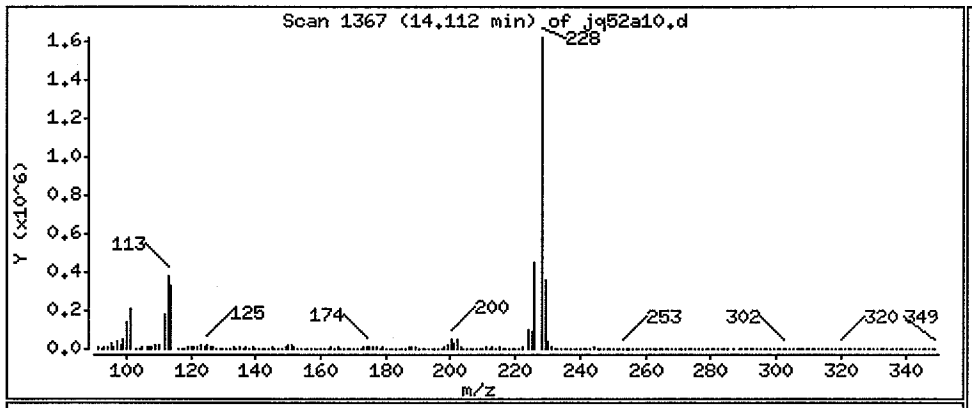
Column phase: ZB-5

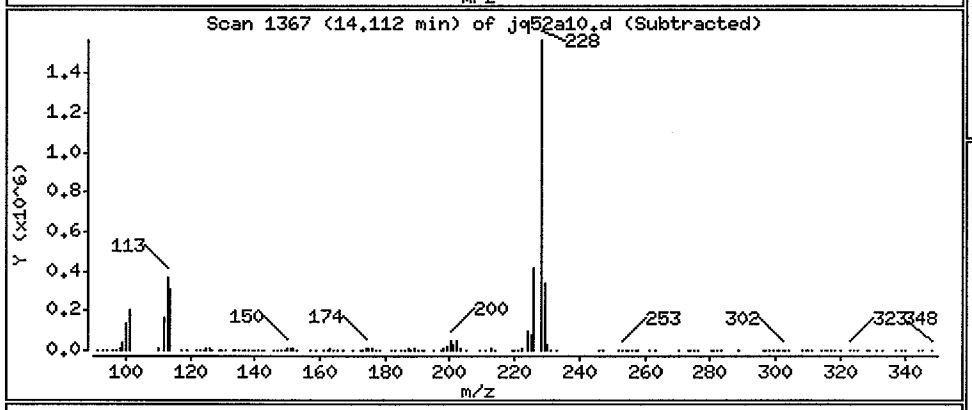
Column diameter: 0.25

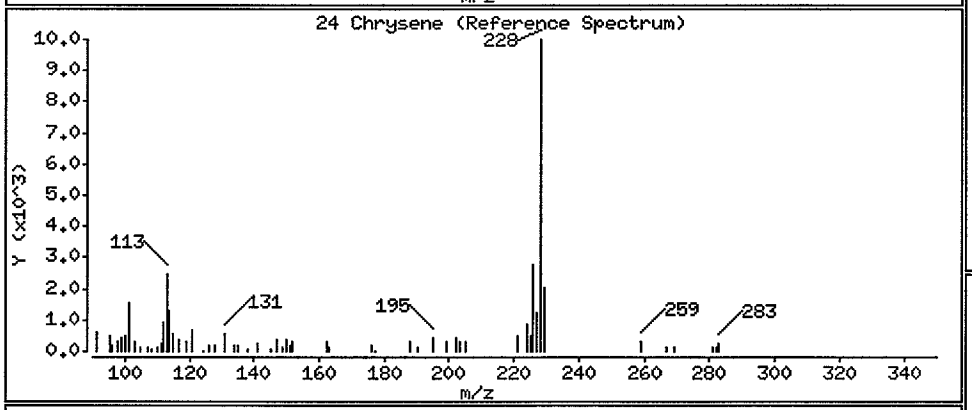
24 Chrysene

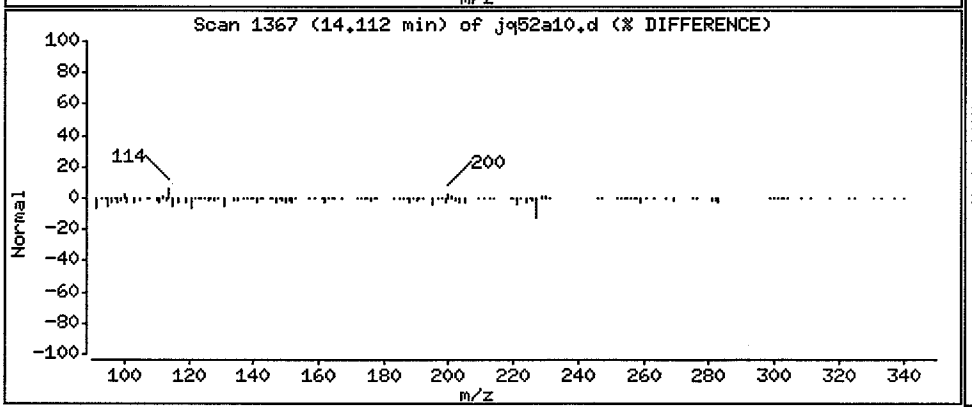
Concentration: 8800 ug/kg

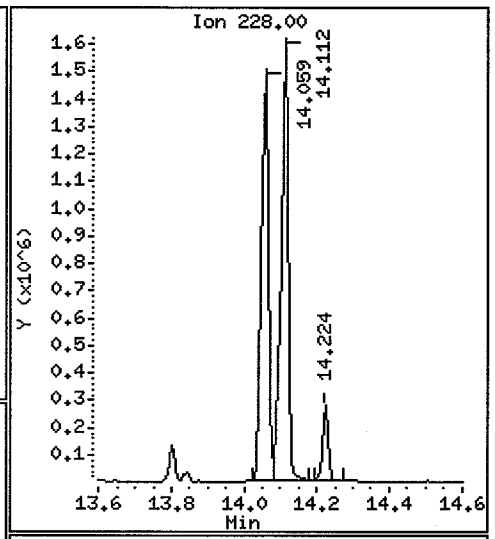
E

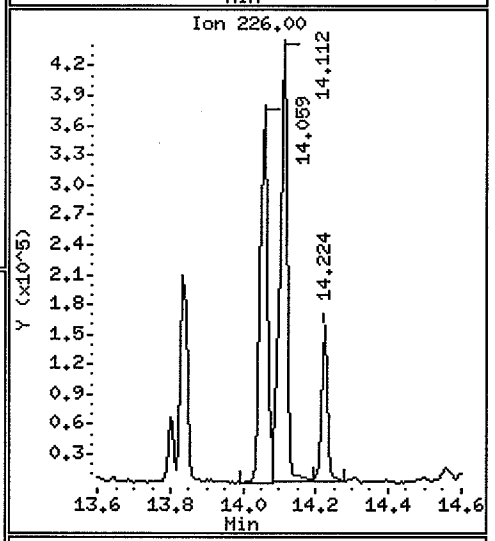


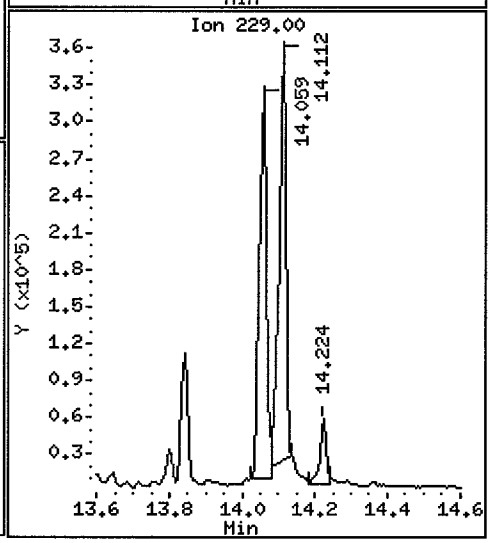












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

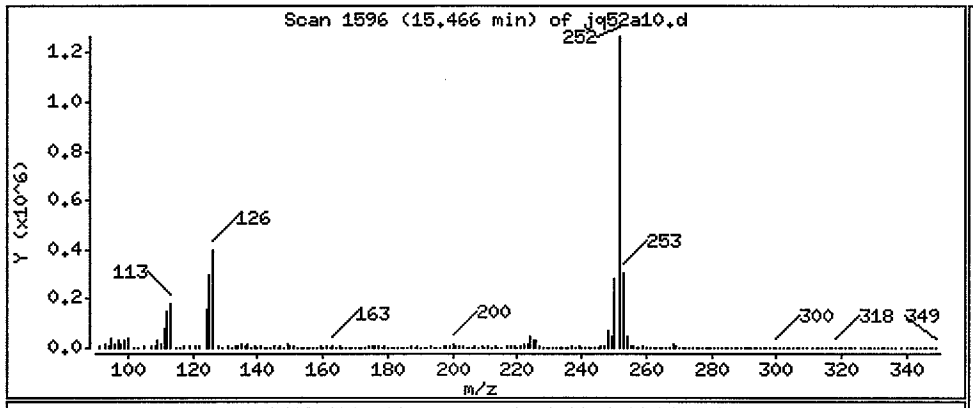
Operator: VTS

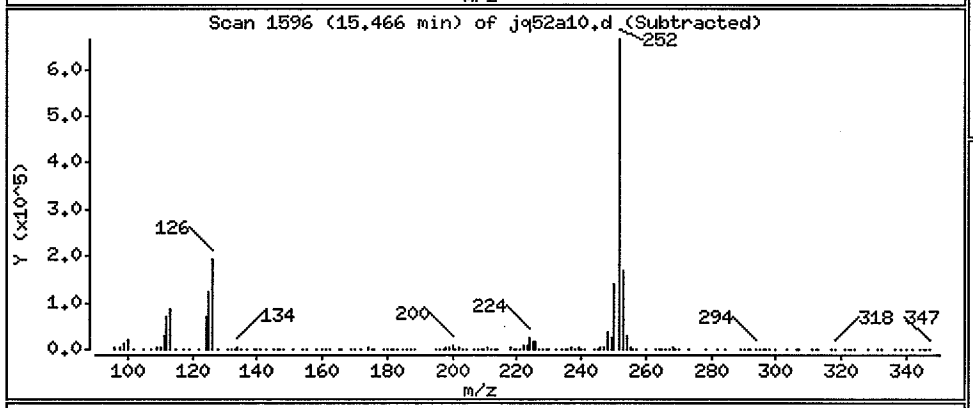
Column phase: ZB-5

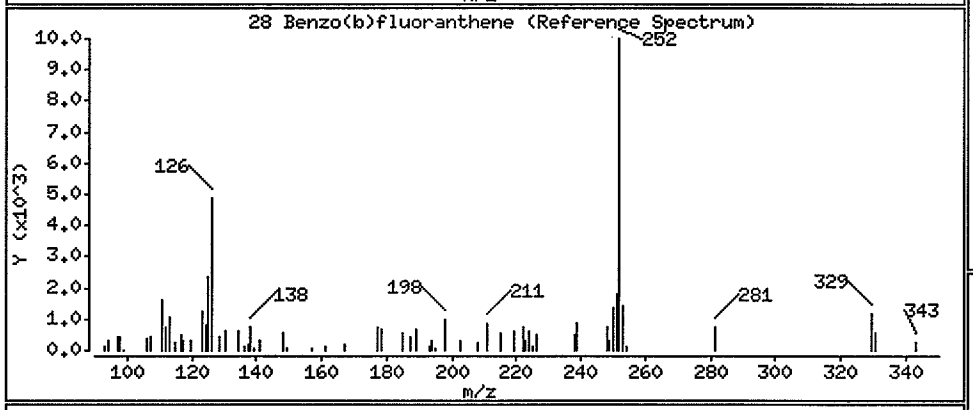
Column diameter: 0.25

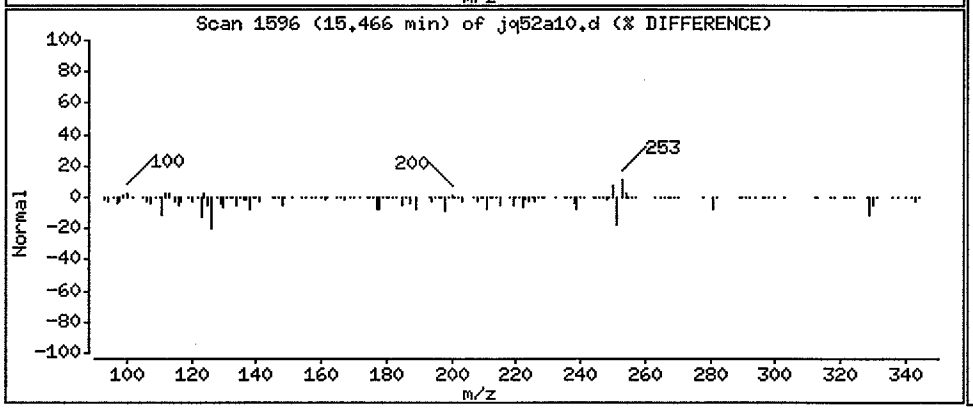
28 Benzo(b)fluoranthene

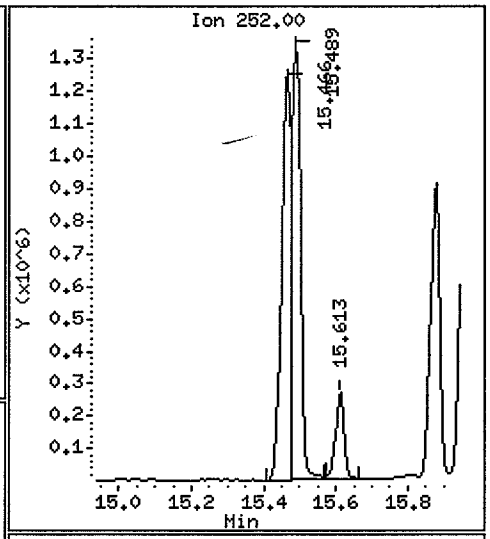
Concentration: 9696 ug/kg

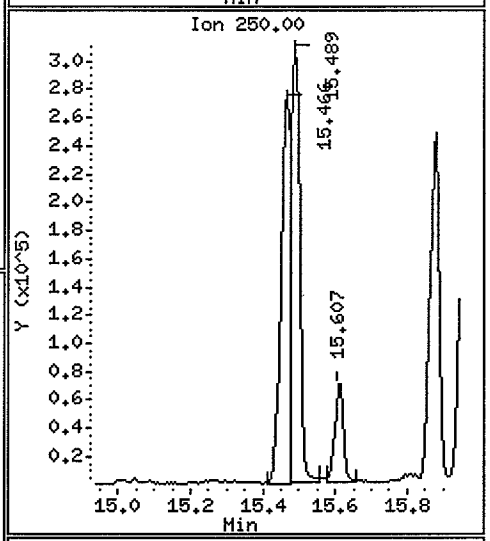


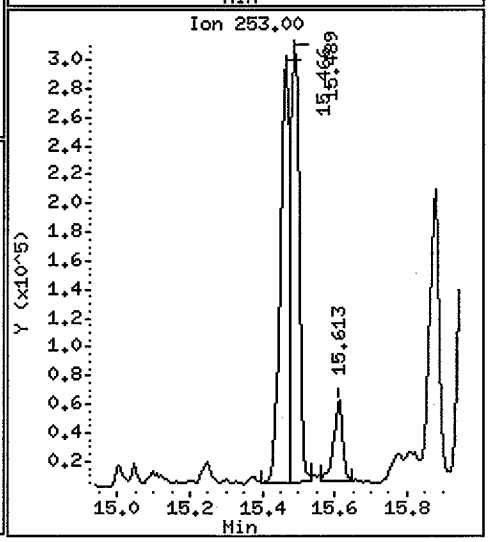












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

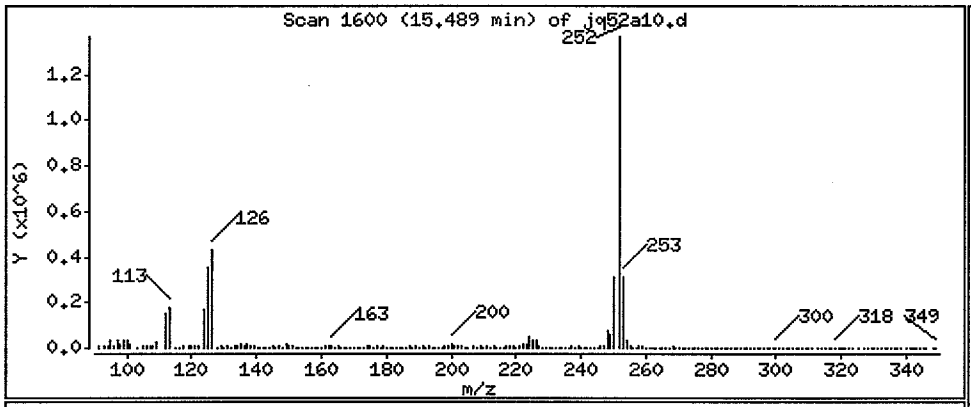
Operator: VTS

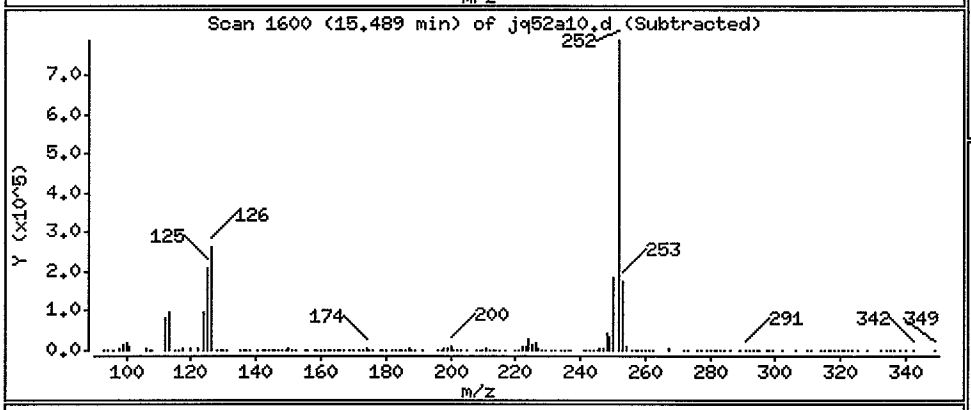
Column phase: ZB-5

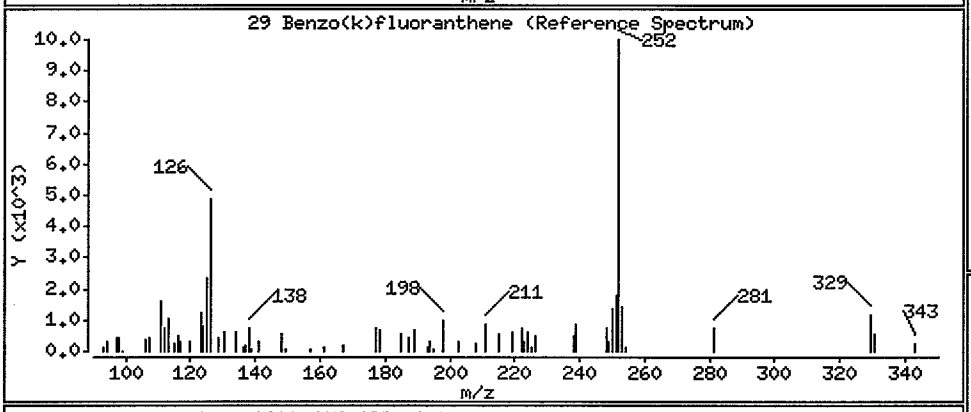
Column diameter: 0.25

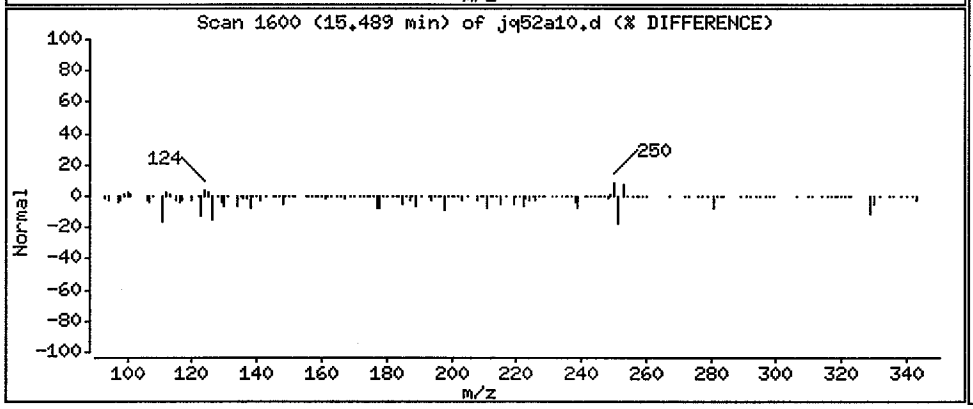
29 Benzo(k)fluoranthene

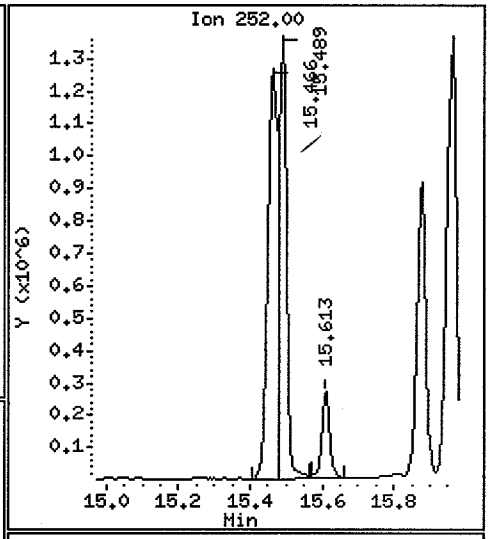
Concentration: 7898 ug/kg

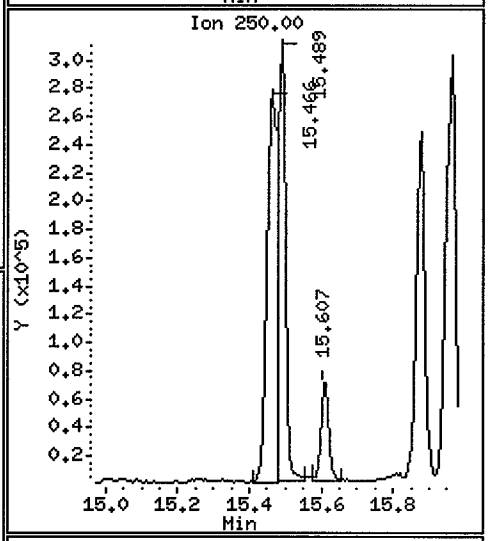


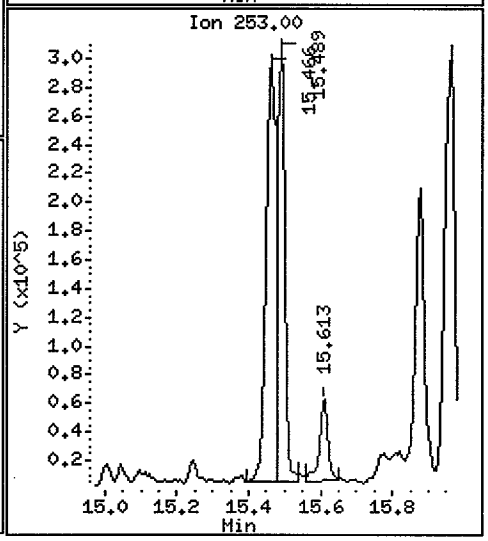












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

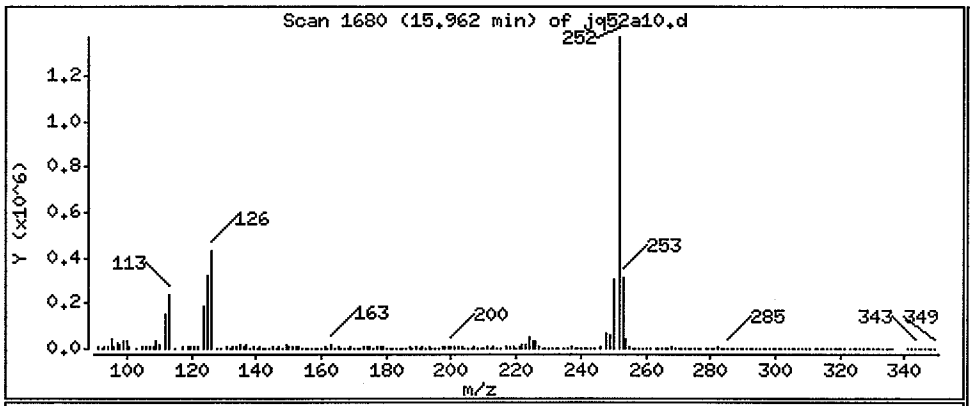
Operator: VTS

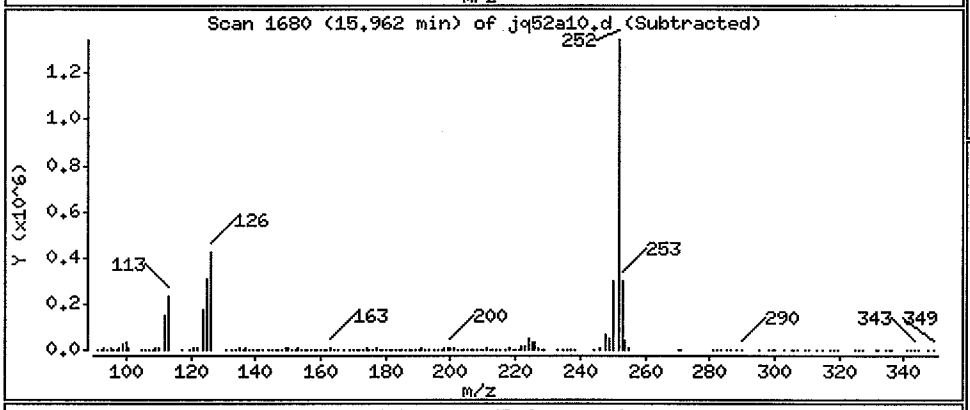
Column phase: ZB-5

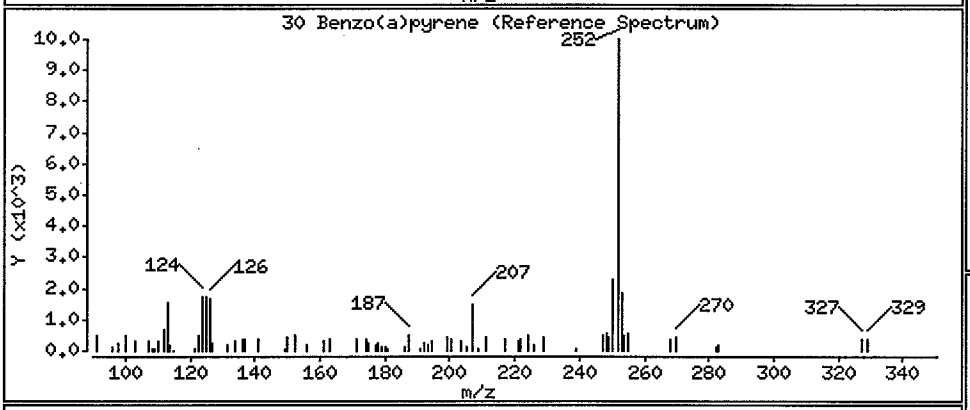
Column diameter: 0.25

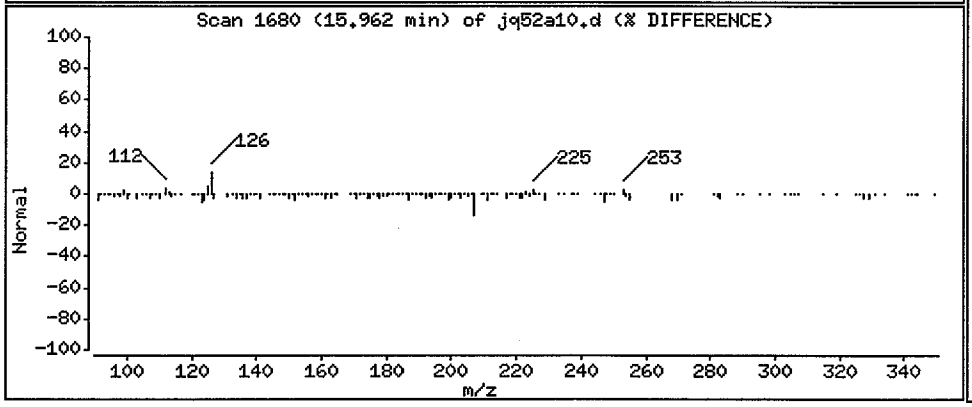
30 Benzo(a)pyrene

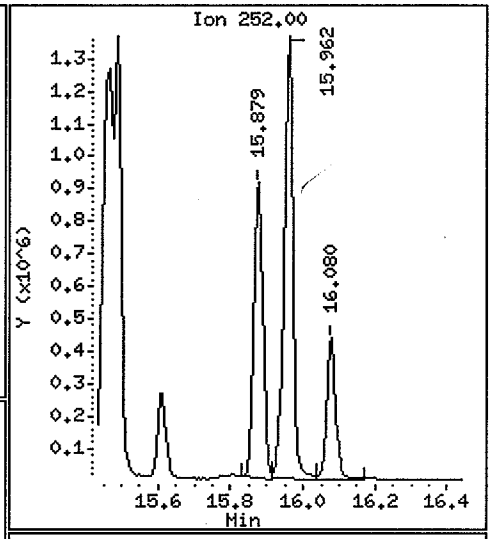
Concentration: 9800 ug/kg

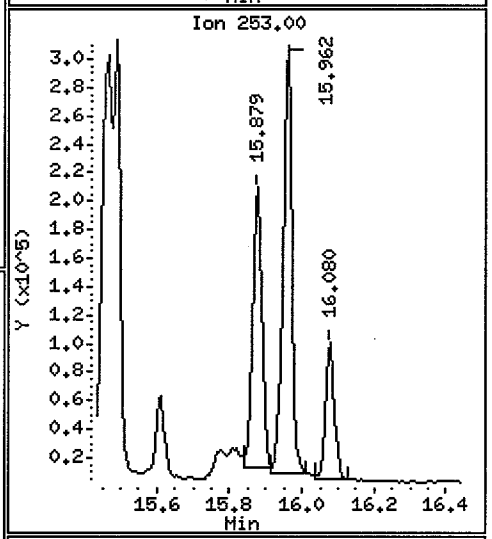


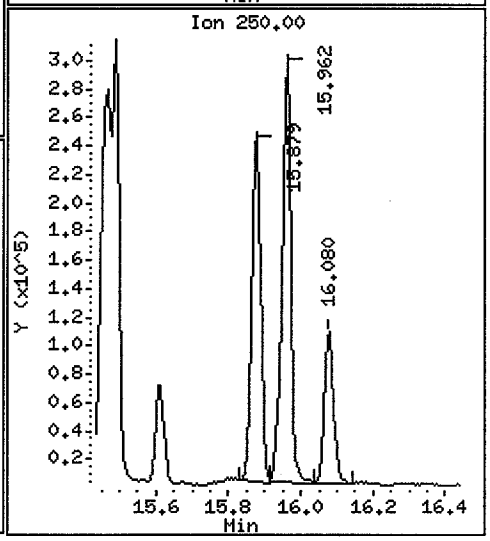












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

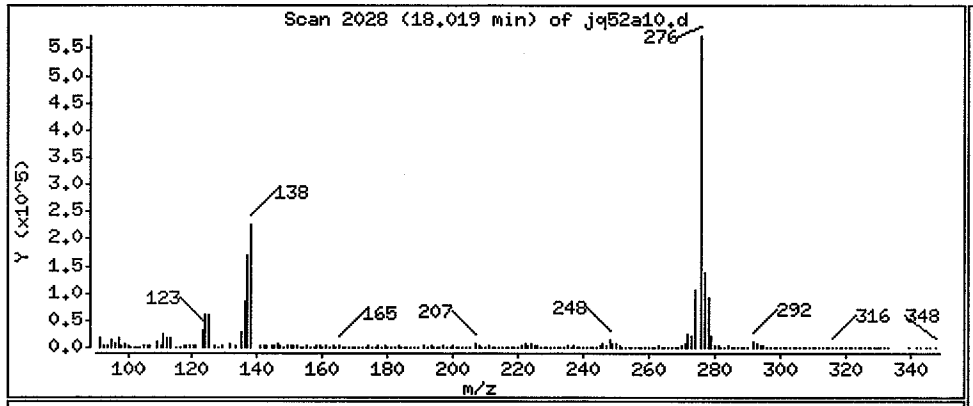
Column phase: ZB-5

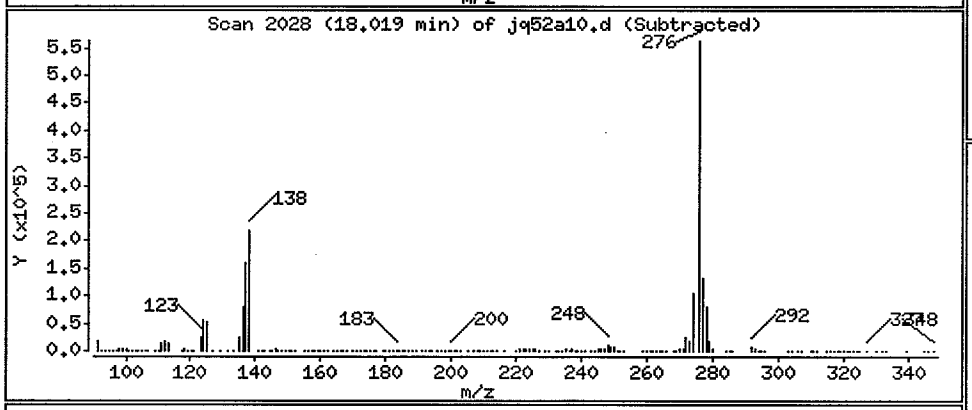
Column diameter: 0.25

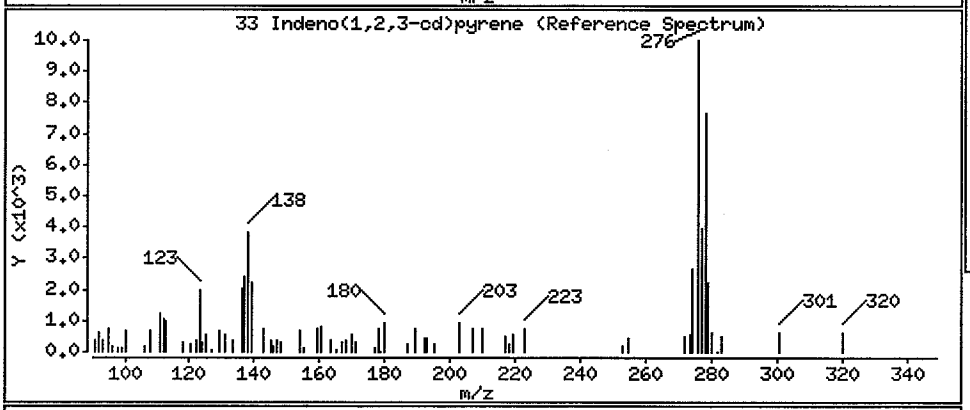
33 Indeno(1,2,3-cd)pyrene

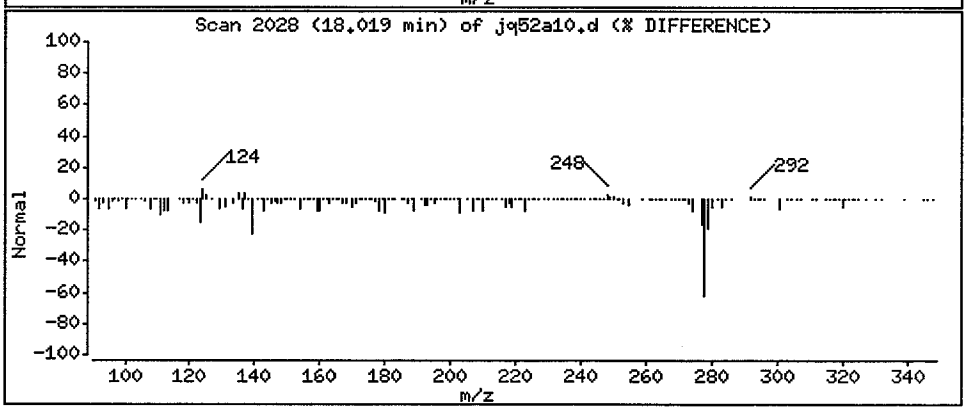
Concentration: 5363 ug/kg

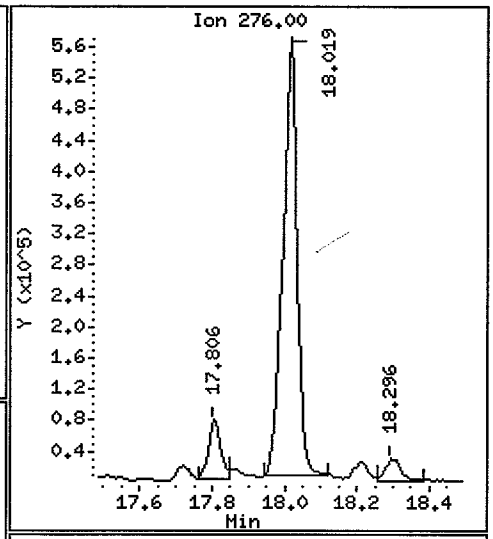
E

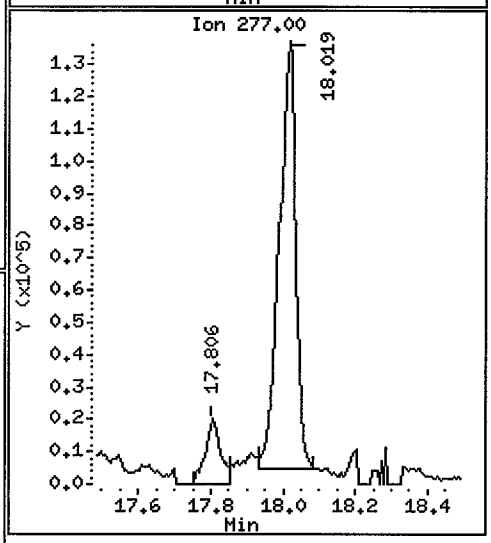












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

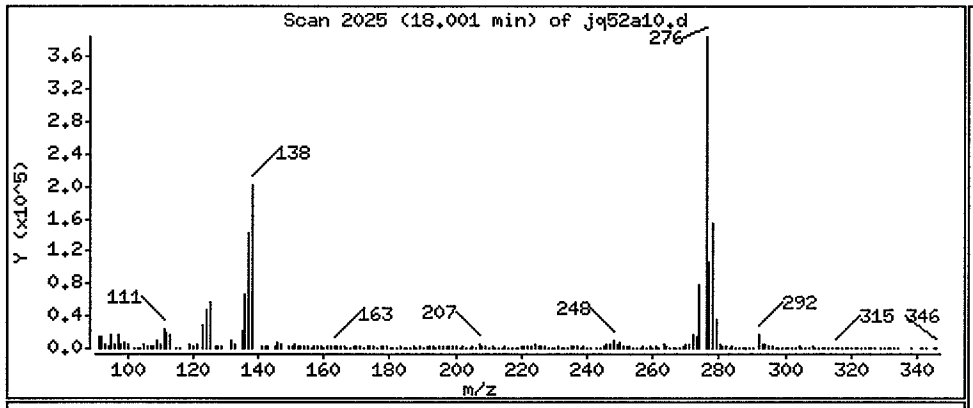
Operator: VTS

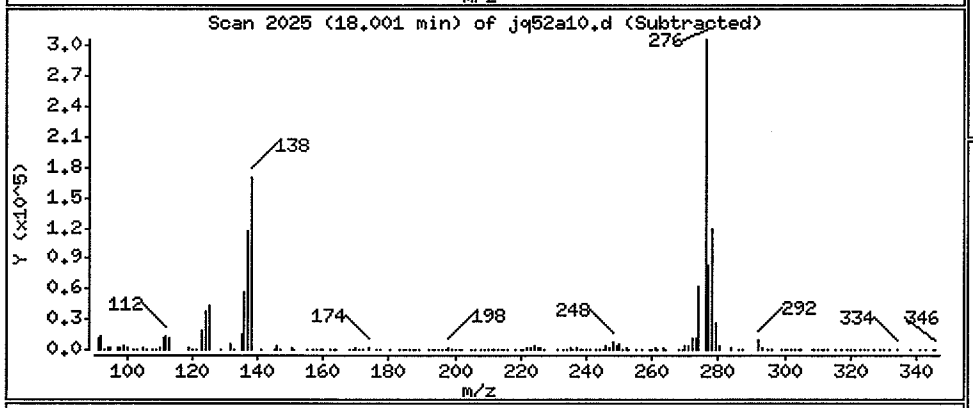
Column phase: ZB-5

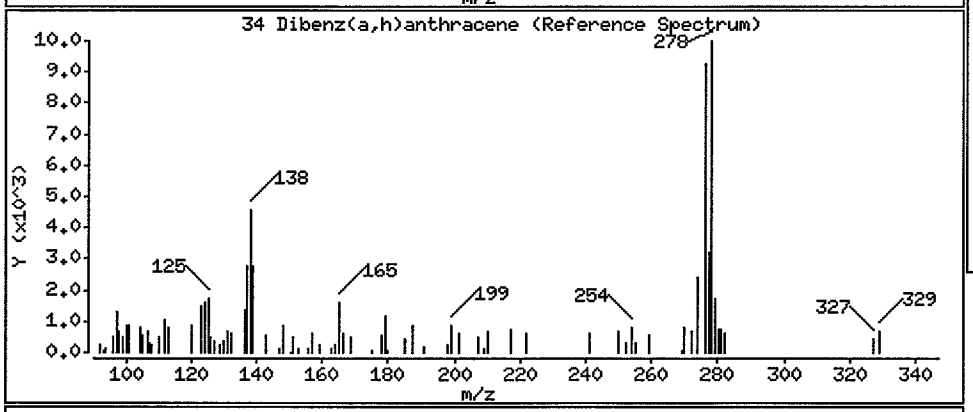
Column diameter: 0.25

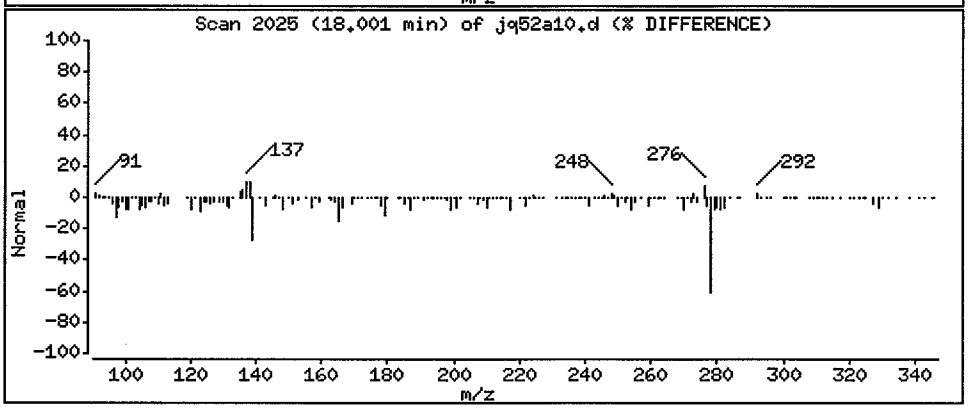
34 Dibenz(a,h)anthracene

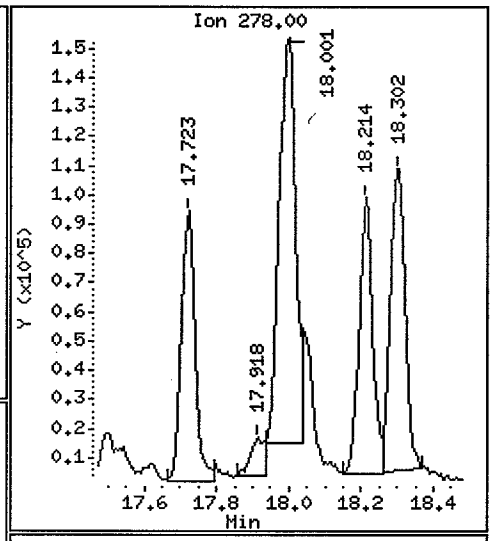
Concentration: 1862 ug/kg

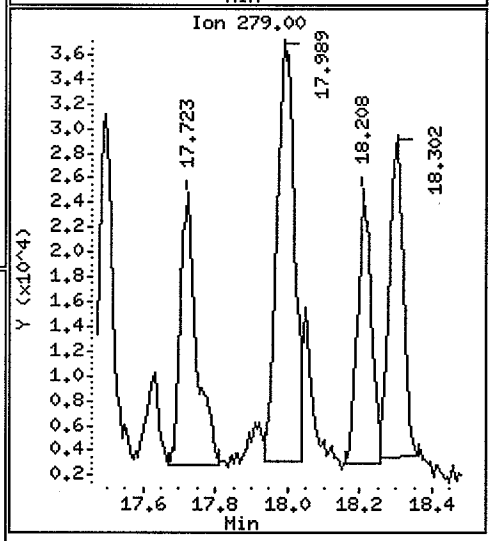












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

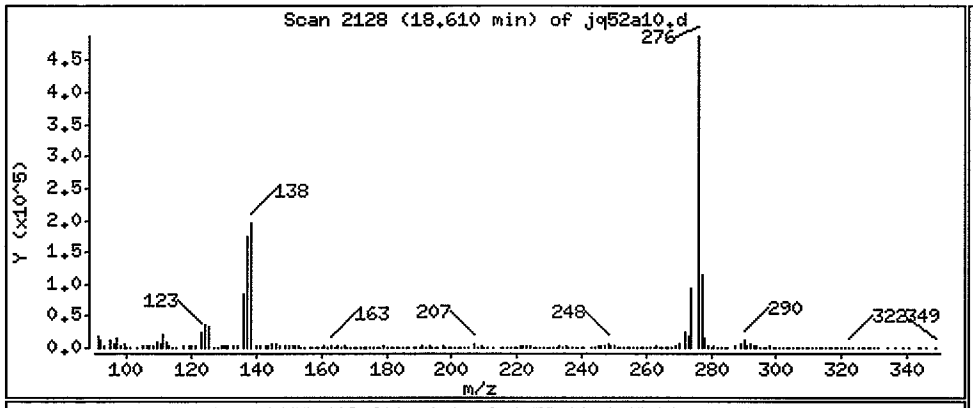
Operator: VTS

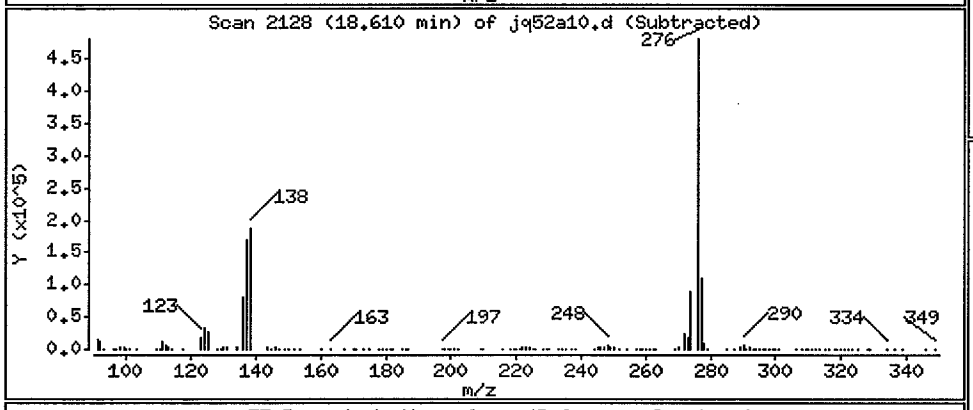
Column phase: ZB-5

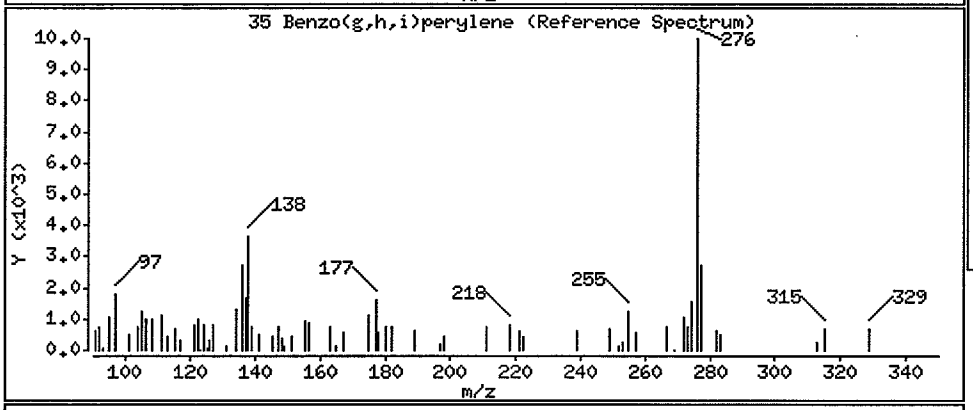
Column diameter: 0.25

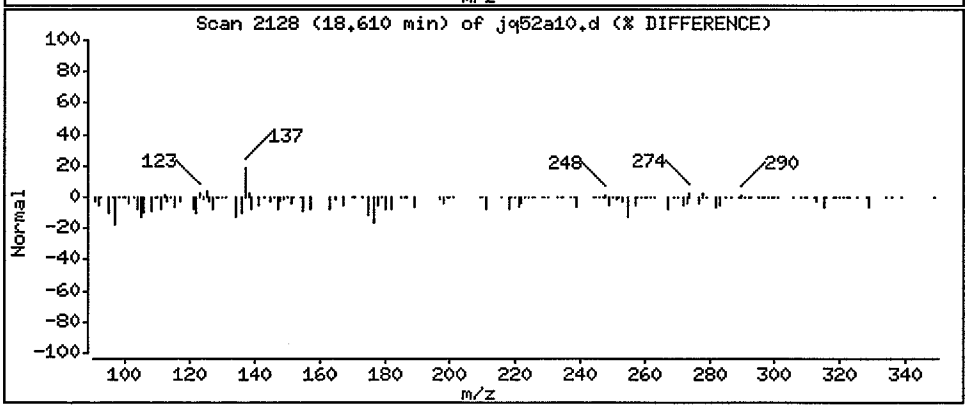
35 Benzo(g,h,i)perylene

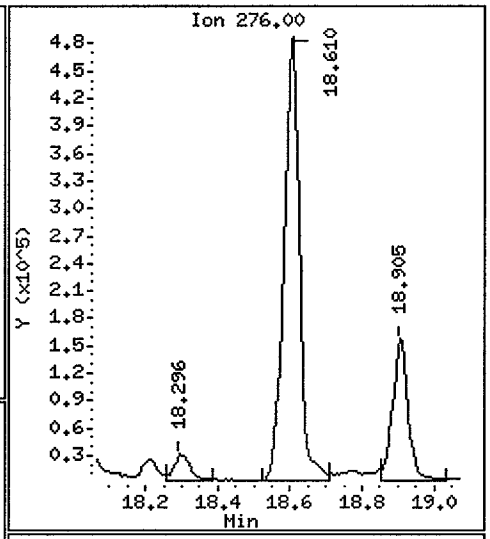
Concentration: 6051 ug/kg

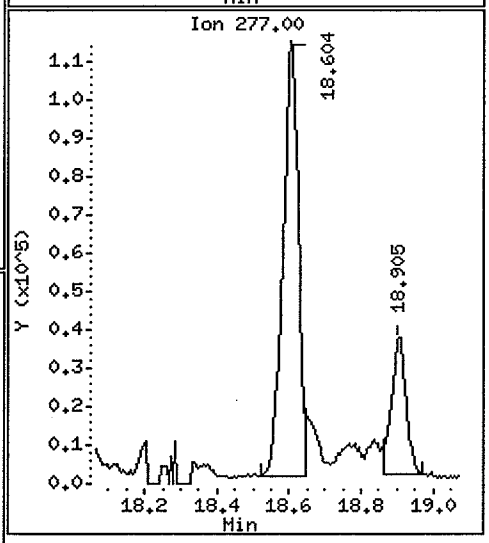












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

Operator: VTS

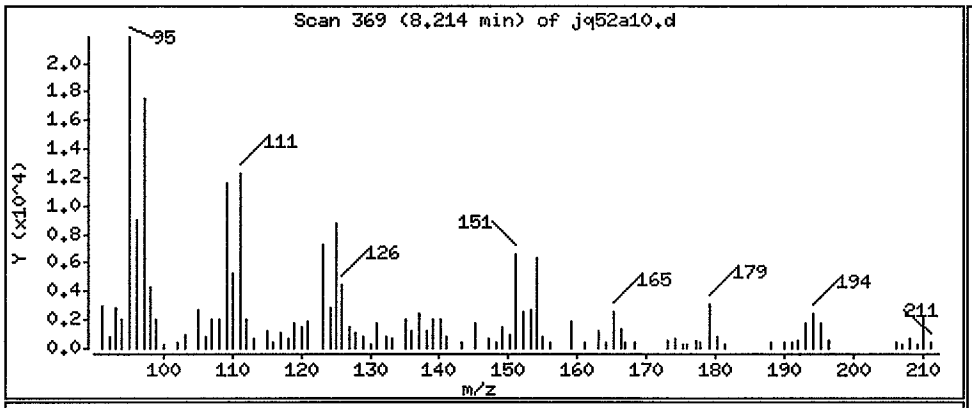
Column phase: ZB-5

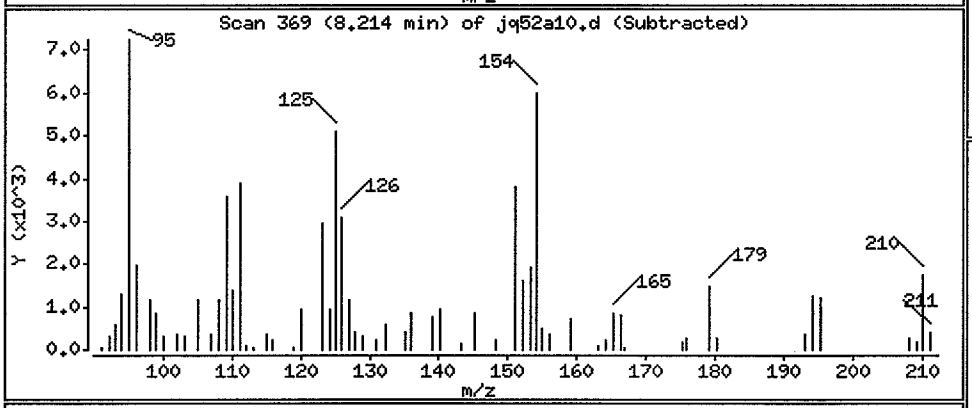
Column diameter: 0.25

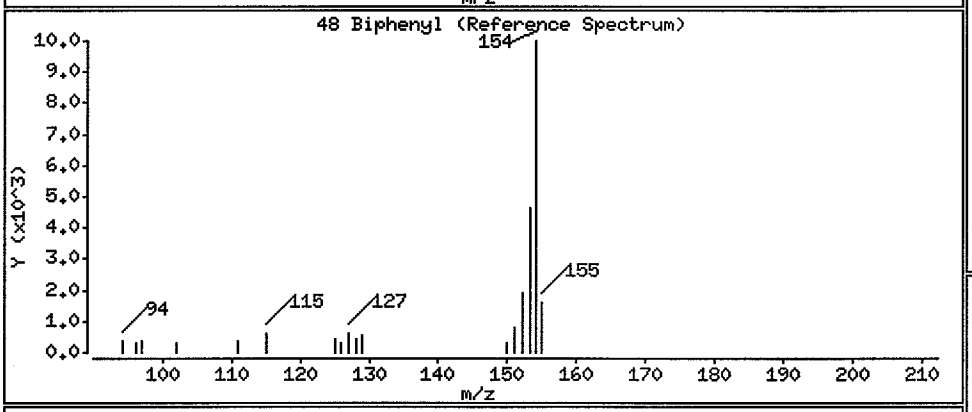
NOT Reported 8/10/06

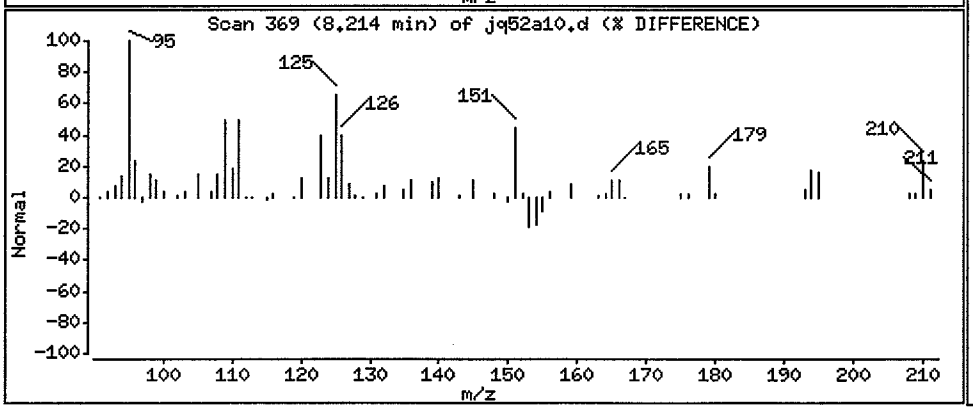
48 Biphenyl

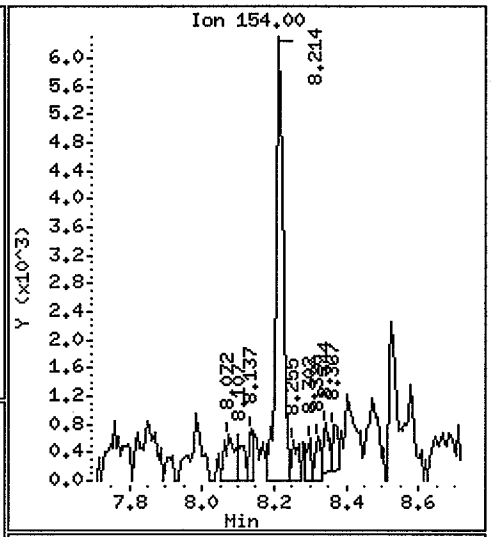
Concentration: 42.70 ug/kg

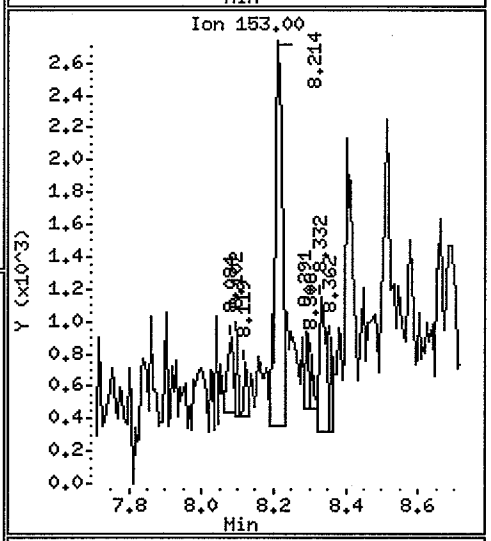


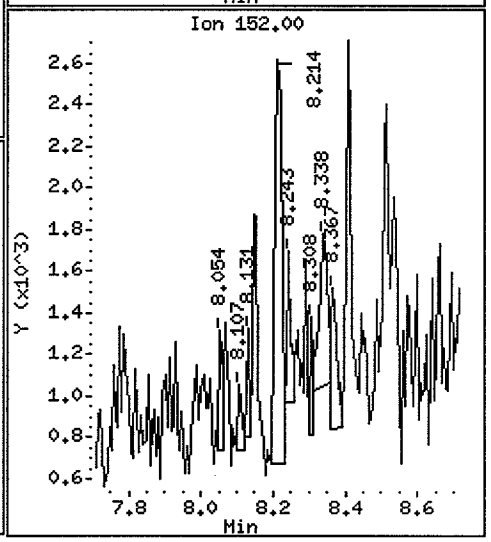












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

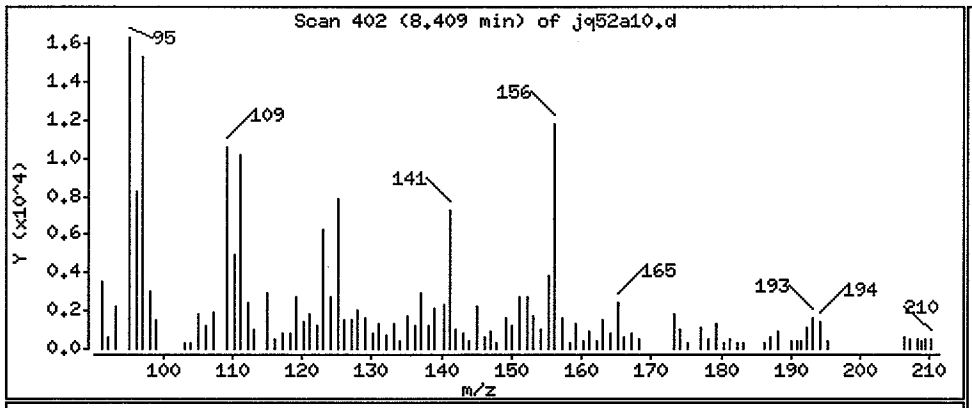
Operator: VTS

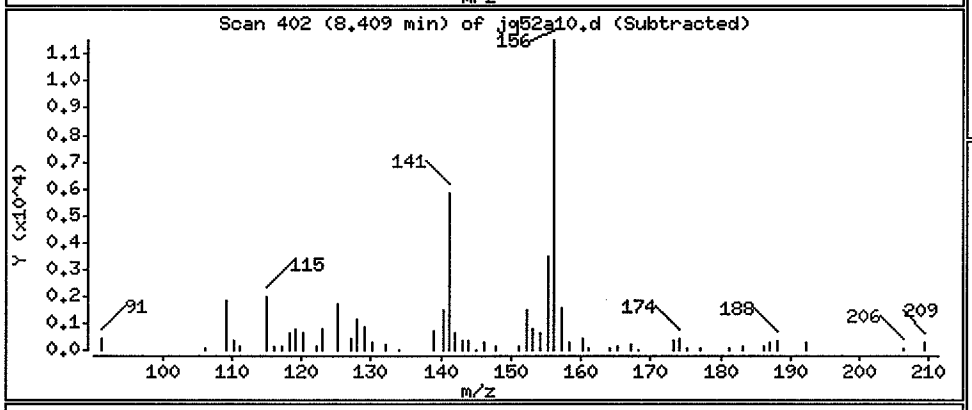
Column phase: ZB-5

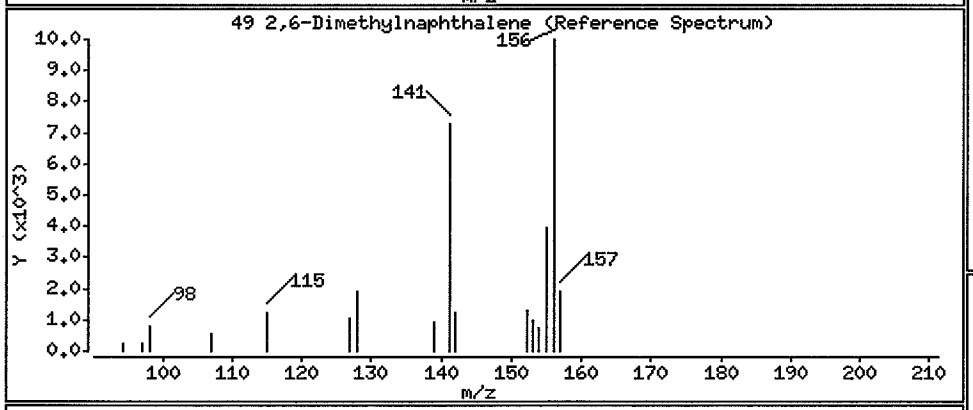
Column diameter: 0.25

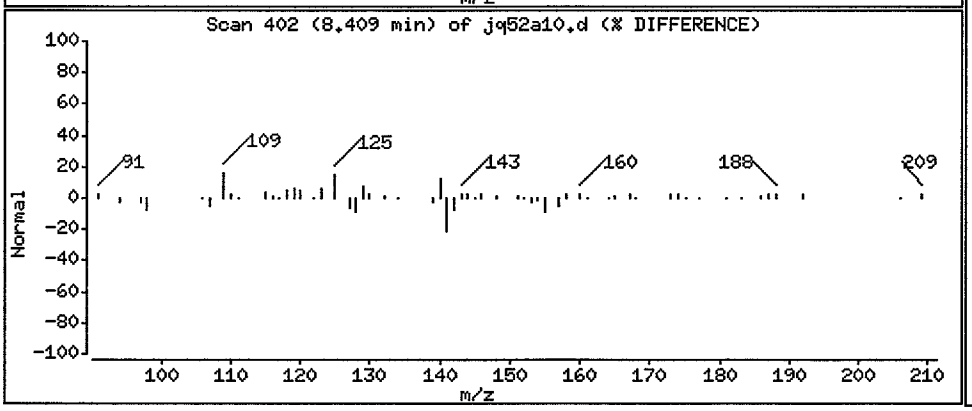
49 2,6-Dimethylnaphthalene

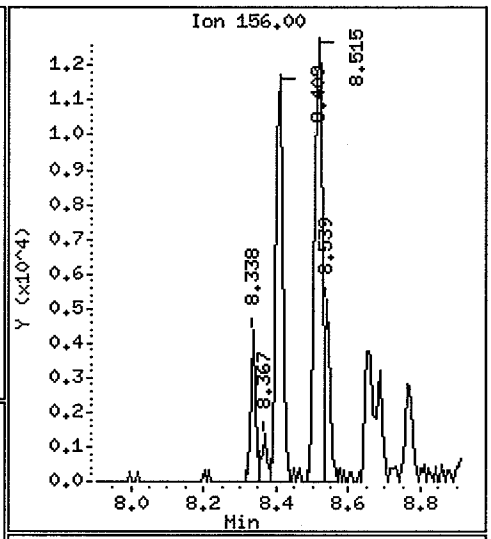
Concentration: 96.85 ug/kg

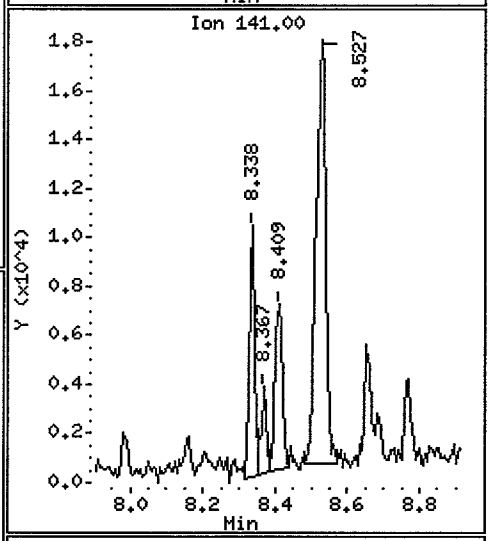


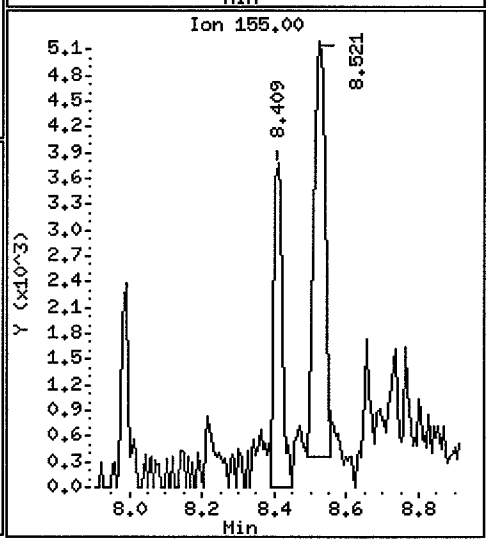












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

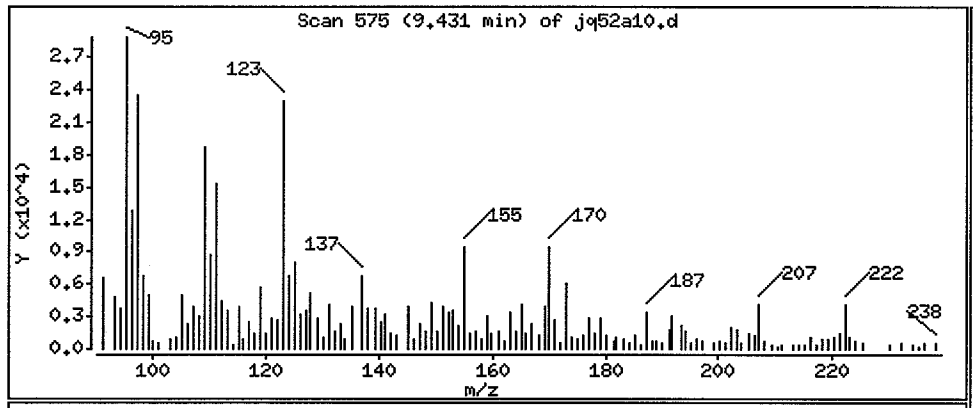
Operator: VTS

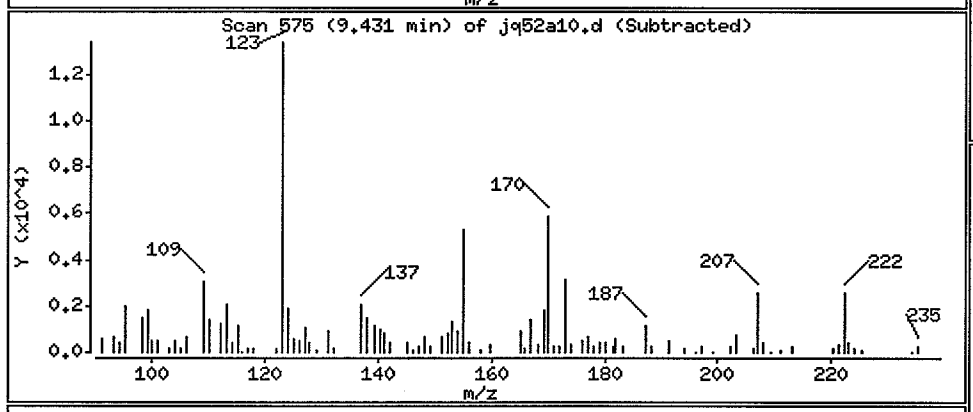
Column phase: ZB-5

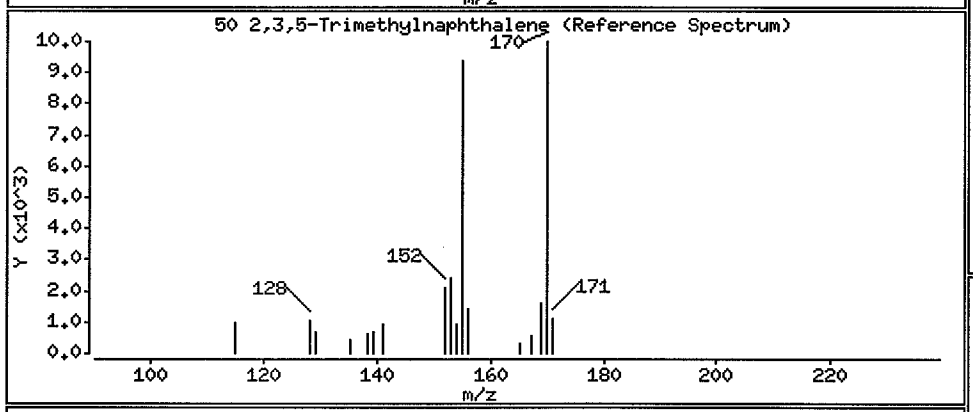
Column diameter: 0.25

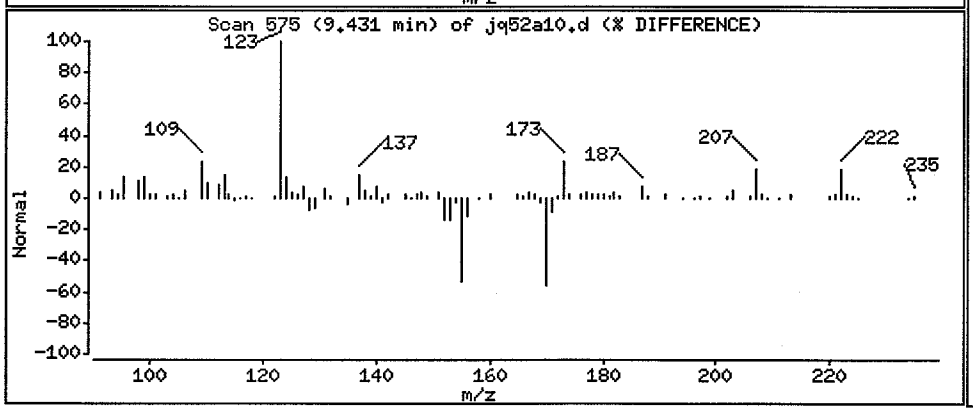
50 2,3,5-Trimethylnaphthalene

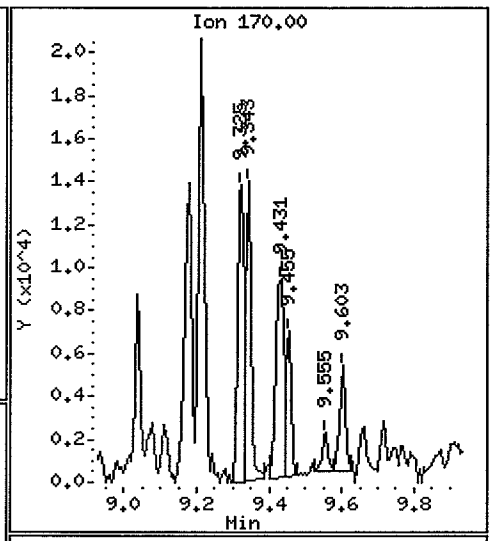
Concentration: 118.3 ug/kg

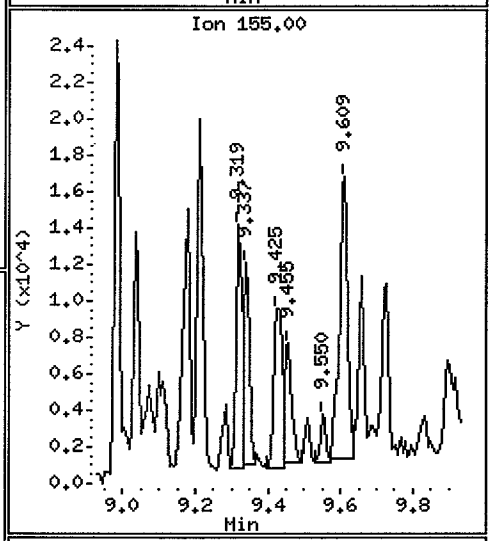


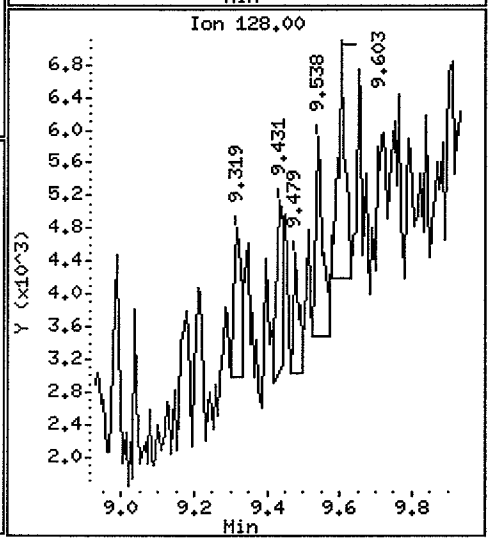












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

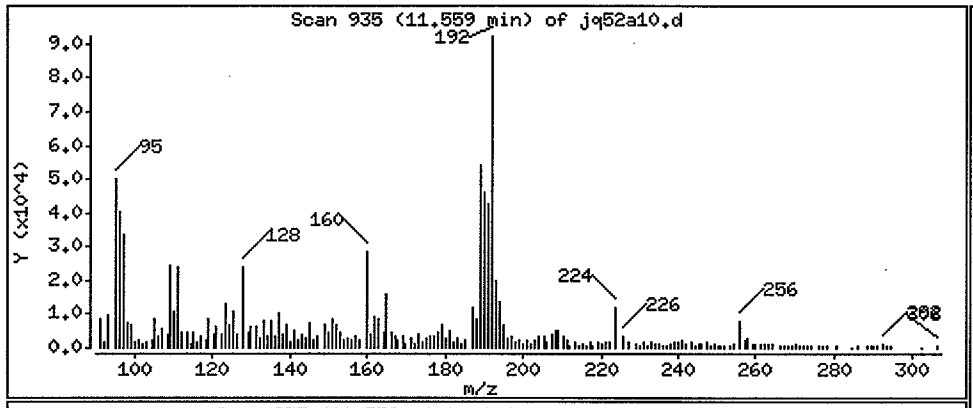
Operator: VTS

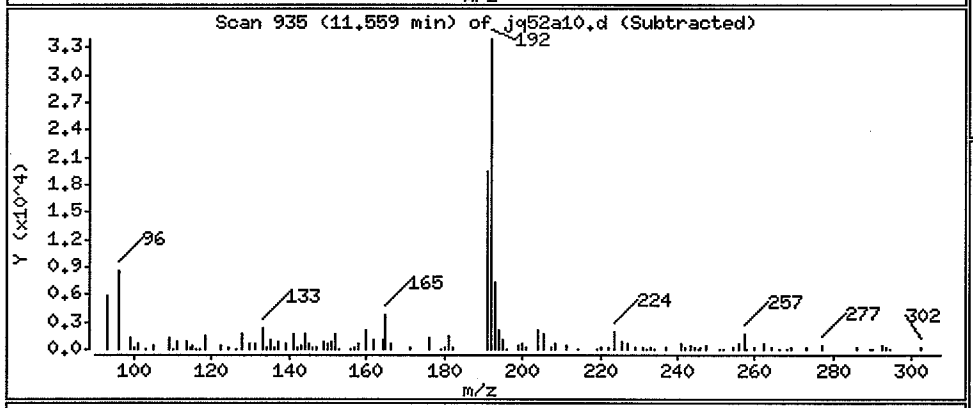
Column phase: ZB-5

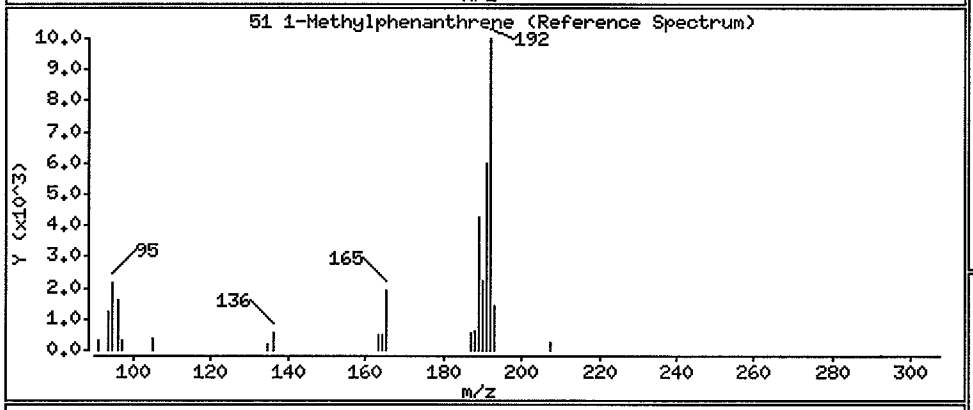
Column diameter: 0.25

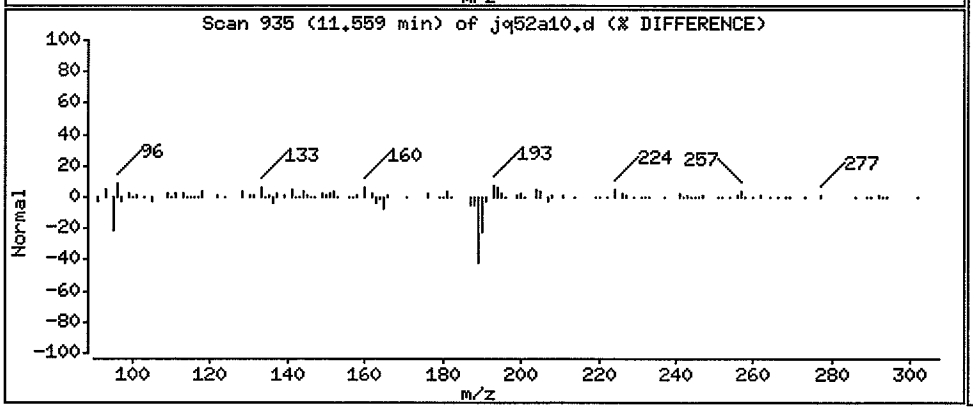
51 1-Methylphenanthrene

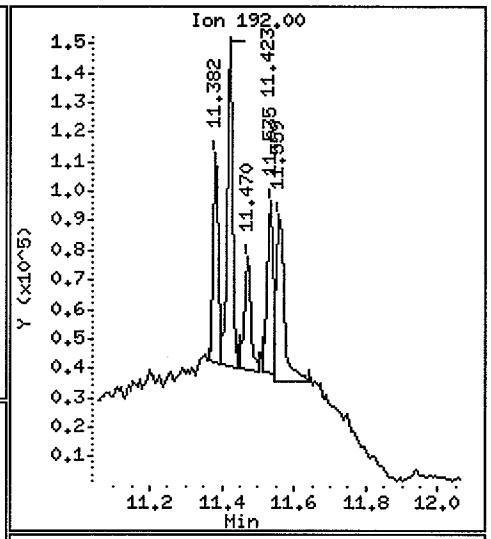
Concentration: 476.9 ug/kg

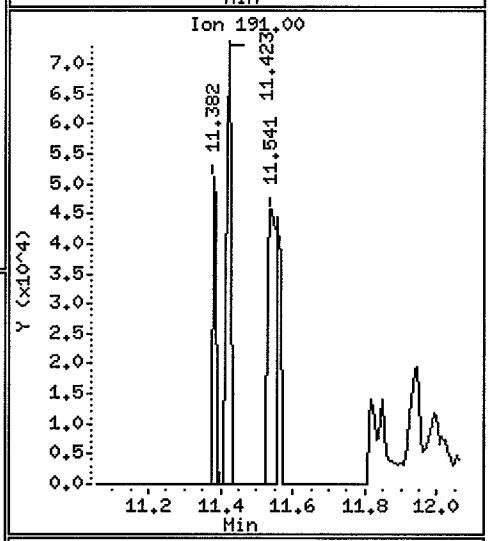


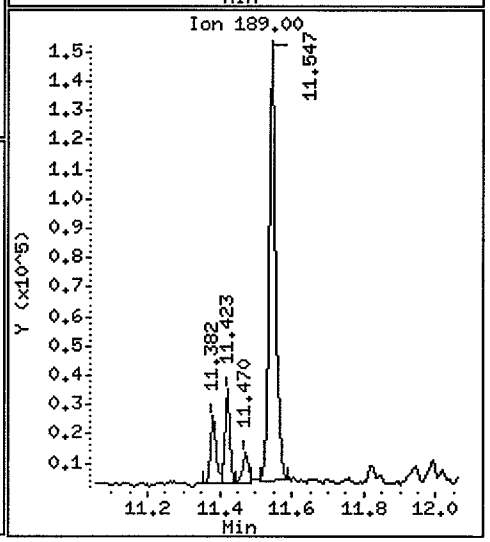












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

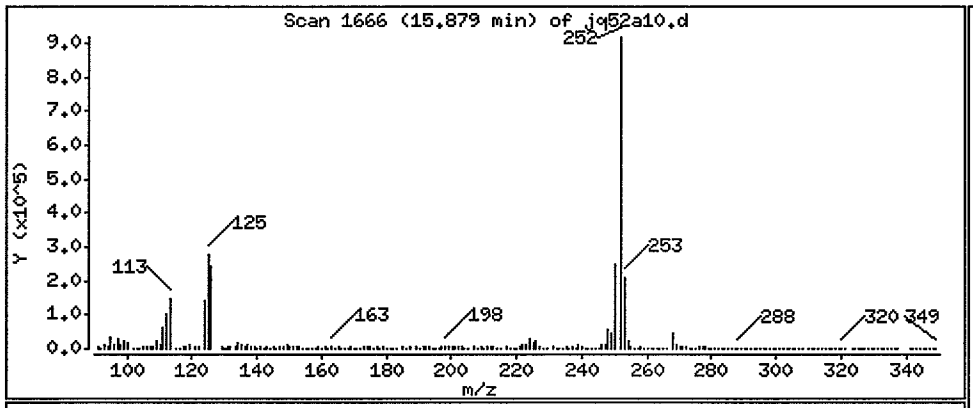
Operator: VTS

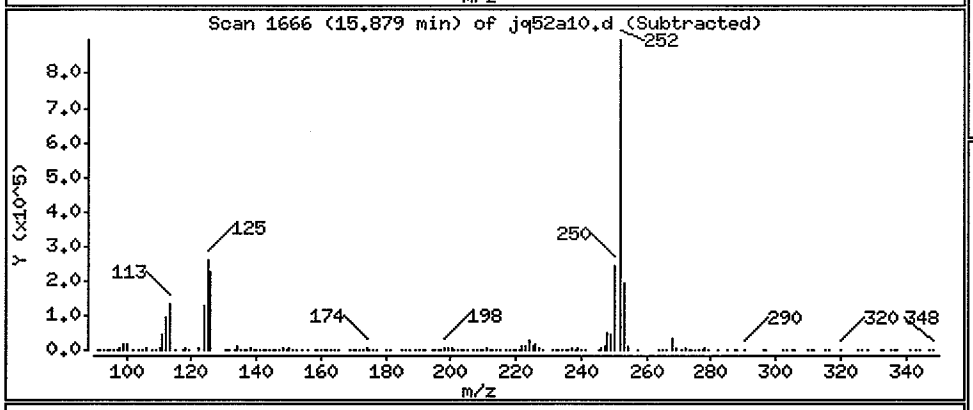
Column phase: ZB-5

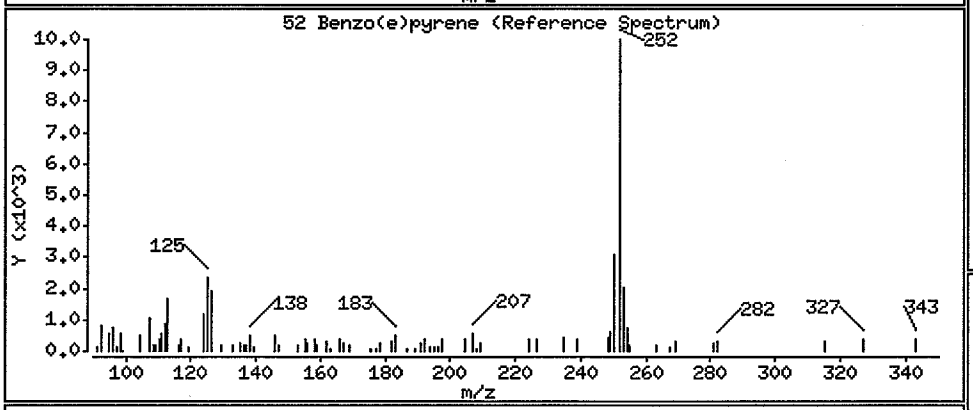
Column diameter: 0.25

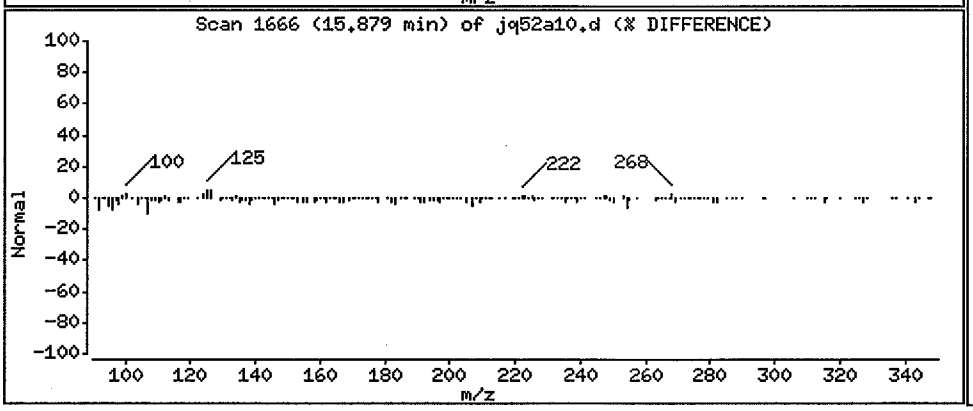
52 Benzo(e)pyrene

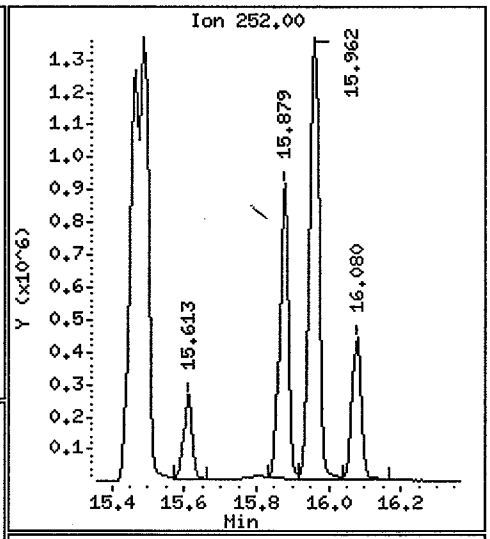
Concentration: 5833 ug/kg

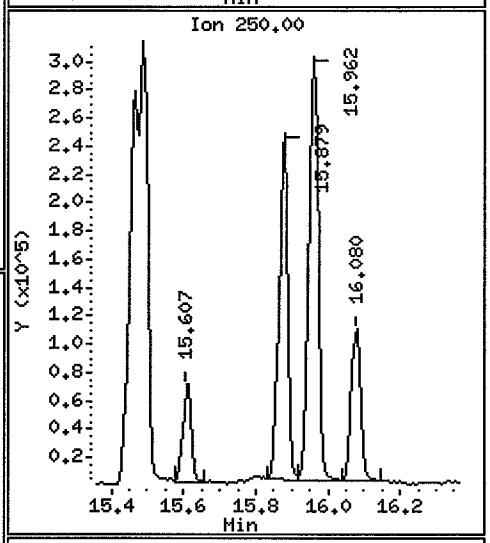


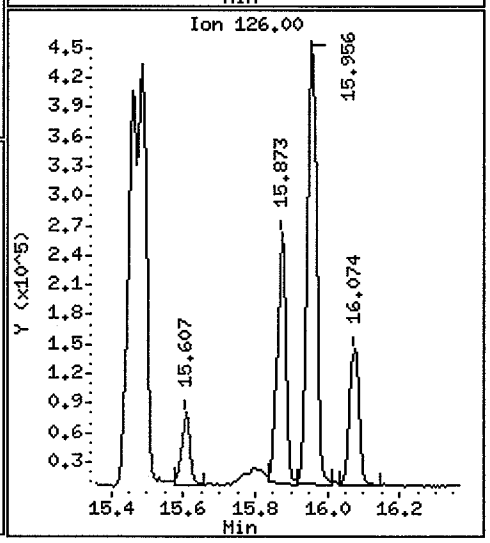












Data File: /chem3/nt1.i/20060808.b/jq52a10.d

Date : 08-AUG-2006 12:46

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A,10

Volume Injected (uL): 1.0

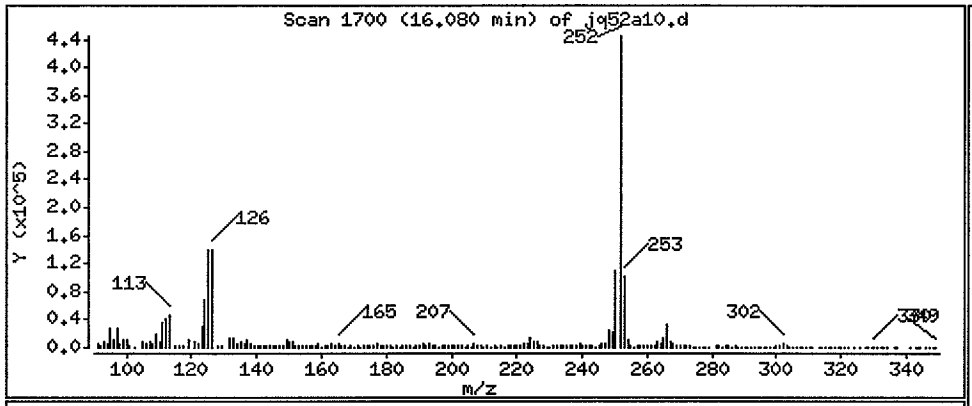
Operator: VTS

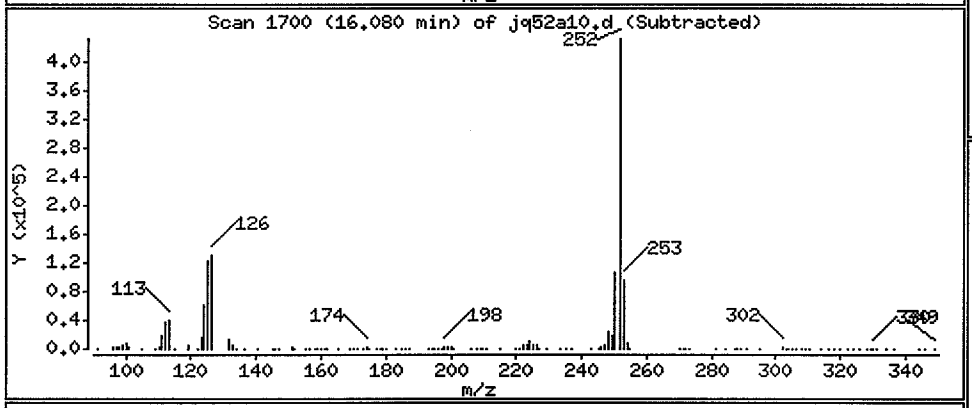
Column phase: ZB-5

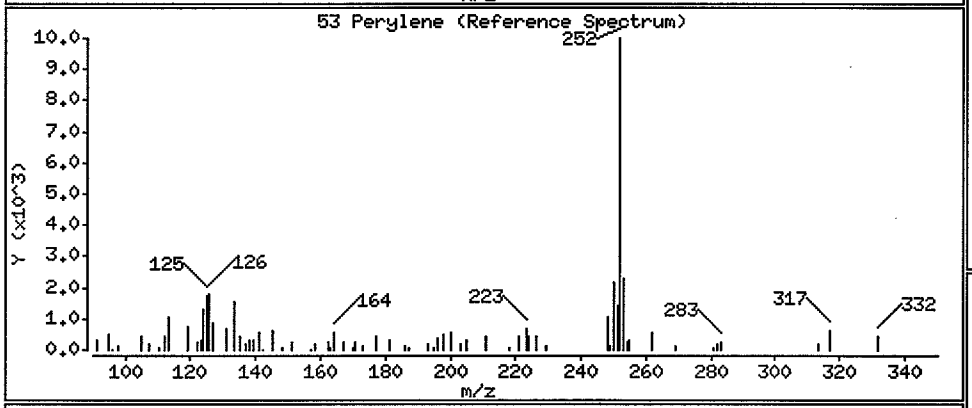
Column diameter: 0.25

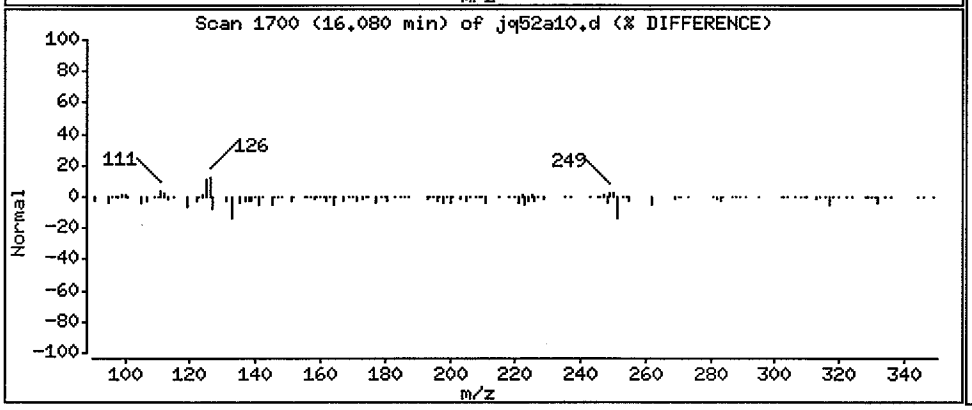
53 Perylene

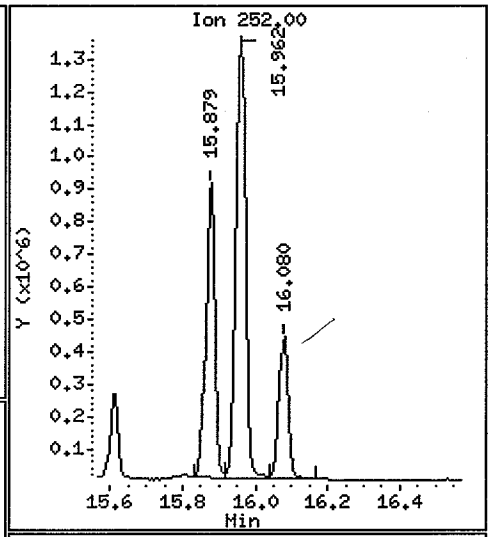
Concentration: 2968 ug/kg

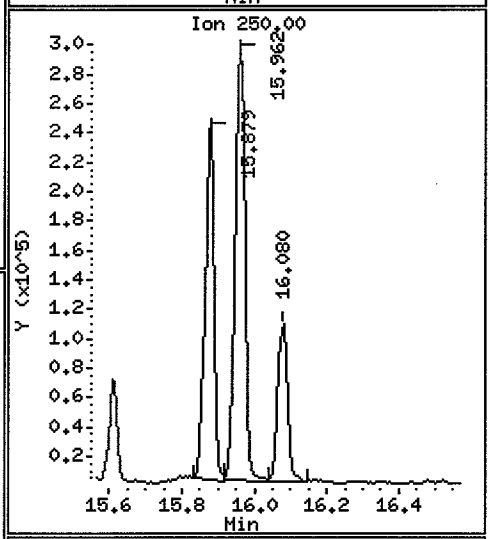


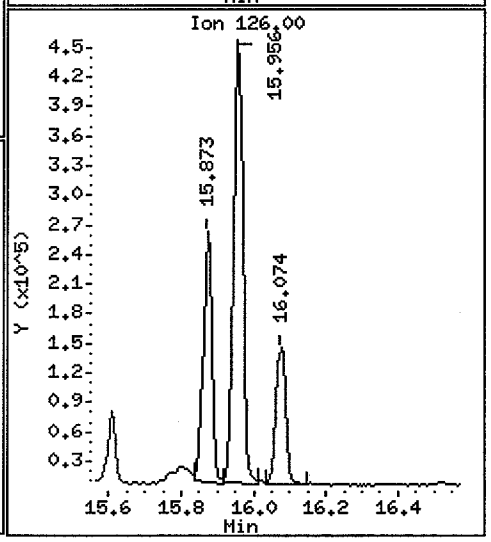












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-02-F-DUP
DILUTION

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/09/06 16:00
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 45.9%
pH: 6.6

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**250**	**250 J**
91-57-6	**2-Methylnaphthalene**	**250**	**150 J**
90-12-0	1-Methylnaphthalene	250	< 250 U
208-96-8	Acenaphthylene	250	< 250 U
83-32-9	**Acenaphthene**	**250**	**1,300**
86-73-7	**Fluorene**	**250**	**620**
85-01-8	**Phenanthrene**	**250**	**4,700**
120-12-7	**Anthracene**	**250**	**1,100**
206-44-0	**Fluoranthene**	**250**	**10,000**
129-00-0	**Pyrene**	**250**	**8,900**
56-55-3	**Benzo(a)anthracene**	**250**	**6,400**
218-01-9	**Chrysene**	**250**	**7,800**
205-99-2	**Benzo(b)fluoranthene**	**250**	**8,000**
207-08-9	**Benzo(k)fluoranthene**	**250**	**6,700**
50-32-8	**Benzo(a)pyrene**	**250**	**8,200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**250**	**5,000**
53-70-3	**Dibenz(a,h)anthracene**	**250**	**1,800**
191-24-2	**Benzo(g,h,i)perylene**	**250**	**5,800**
198-55-0	**Perylene**	**250**	**2,500**
92-52-4	Biphenyl	250	< 250 U
581-42-0	2,6-Dimethylnaphthalene	250	< 250 U
832-69-9	**1-Methylphenanthrene**	**250**	**380**
192-97-2	**Benzo(e)pyrene**	**250**	**4,900**
2245-38-7	2,3,5-Trimethylnaphthalene	250	< 250 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

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

FORM I

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060809.b/jq52adl.d
Lab Smp Id: JQ52ADL Client Smp ID: T4-S3-02-F-DUP
Inj Date : 09-AUG-2006 16:00
Operator : VTS Inst ID: nt1.i
Smp Info : JQ52A
Misc Info : 06-13102
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: 12
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.50000	Weight of sample extracted (g)
M	45.90000	% 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)	292387	2.00000	
2 Naphthalene	128	6.901	6.901	(1.003)	14053	0.09636	240.7 J
$ 3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
4 2-Methylnaphthalene	142	7.670	7.669	(1.115)	5062	0.05861	146.4 J
5 1-Methylnaphthalene	142	Compound Not Detected.					
7 Acenaphthylene	152	Compound Not Detected.					
* 8 Acenaphthene-d10	164	8.934	8.934	(1.000)	144713	2.00000	
9 Acenaphthene	153	8.976	8.975	(1.005)	36172	0.50906	1272
10 Dibenzofuran	168	9.165	9.164	(1.026)	8970	0.08570	214.1 J
11 Fluorene	166	9.590	9.590	(1.073)	19977	0.24518	612.4
* 15 Phenanthrene-d10	188	10.749	10.748	(1.000)	204501	2.00000	
16 Phenanthrene	178	10.778	10.778	(1.003)	198061	1.88689	4713
17 Anthracene	178	10.832	10.837	(1.008)	44588	0.42506	1062
19 Fluoranthene	202	12.274	12.273	(1.142)	435636	4.06894	10160

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)	429512	3.56693	8910
22 Benzo(a)anthracene	228	14.041	14.040	(0.998)	287538	2.54628	6360
* 23 Chrysene-d12	240	14.064	14.058	(1.000)	187525	2.00000	
24 Chrysene	228	14.094	14.093	(1.002)	324072	3.11138	7772
28 Benzo(b)fluoranthene	252	15.435	15.429	(0.964)	406410	3.19266	7975
29 Benzo(k)fluoranthene	252	15.459	15.459	(0.966)	365353	2.69218	6725
30 Benzo(a)pyrene	252	15.926	15.926	(0.995)	406897	3.28046	8194
* 31 Perylene-d12	264	16.009	16.008	(1.000)	225550	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.965	17.959	(1.122)	286695	2.00989	5020
$ 32 Dibenz(a,h)anthrancene-d14	292	Compound Not Detected.					
34 Dibenz(a,h)anthracene	278	17.953	17.959	(1.121)	82264	0.70596	1763
35 Benzo(g,h,i)perylene	276	18.550	18.544	(1.159)	274593	2.31583	5785
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	11.553	11.552	(0.821)	11670	0.15203	379.8
52 Benzo(e)pyrene	252	15.849	15.843	(0.990)	270415	1.96954	4920
53 Perylene	252	16.050	16.050	(1.003)	128282	0.99510	2486

VTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq52adl.d
Lab Smp Id: JQ52ADL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060809.b/simpna.m
Misc Info: 06-13102

Calibration Date: 09-AUG-2006
Calibration Time: 07:50
Client Smp ID: T4-S3-02-F-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	240084	120042	480168	292387	21.79
8 Acenaphthene-d10	117778	58889	235556	144713	22.87
15 Phenanthrene-d10	165702	82851	331404	204501	23.41
23 Chrysene-d12	120342	60171	240684	187525	55.83
31 Perylene-d12	134879	67440	269758	225550	67.22

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	8.93	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: JQ52ADL
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: 06-13102

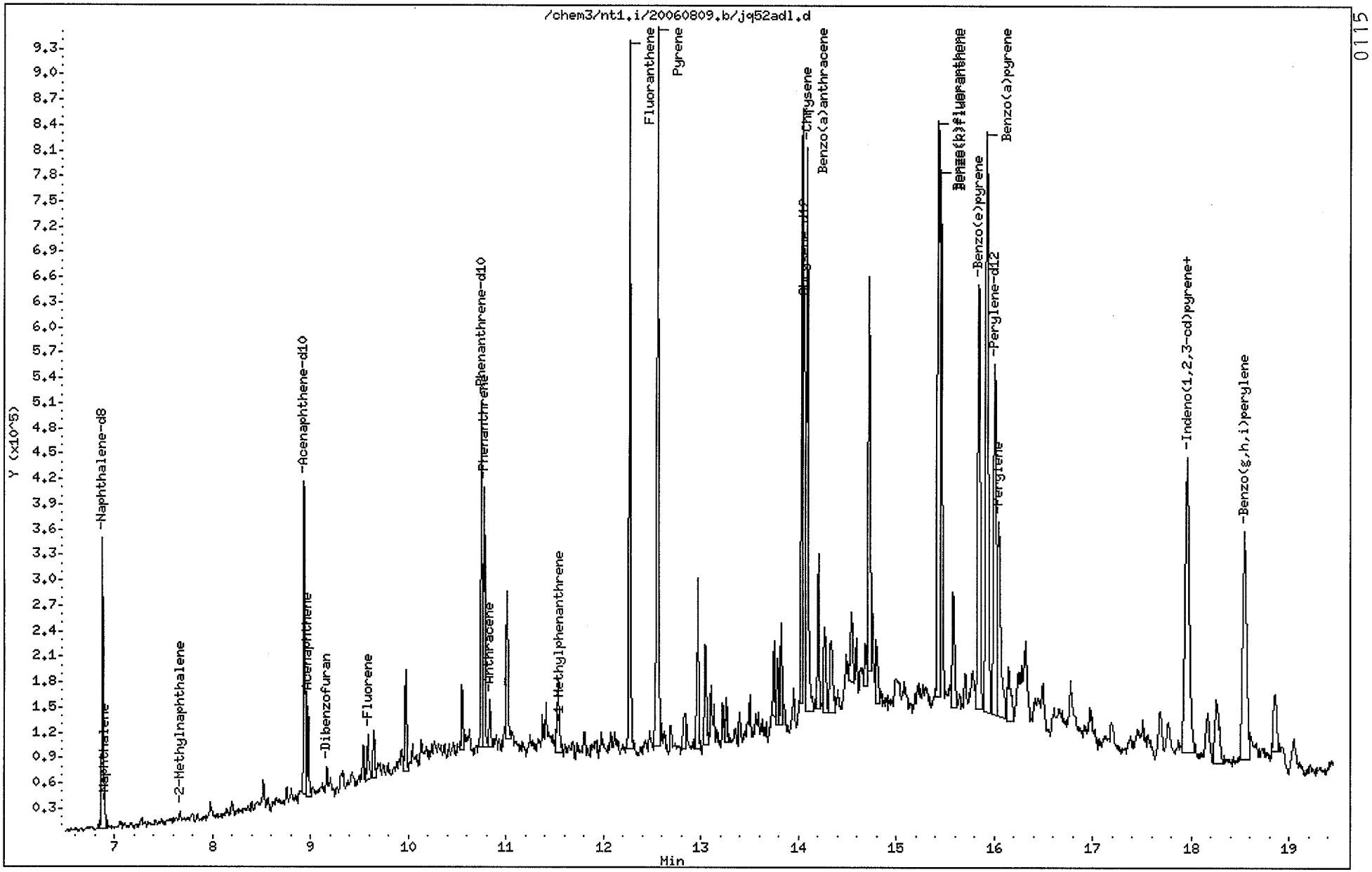
Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-02-F-DUP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthale	149.9	0.000	*	32-97
$ 32 Dibenz(a,h)anthra	149.9	0.000	*	21-105

"Diluted Out"

Data File: /chem3/nt1.i/20060809.b/jq52ad1.d
Date : 09-AUG-2006 16:00
Client ID: T4-S3-02-F-DUP
Sample Info: JQ52A
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0115

Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

Operator: VTS

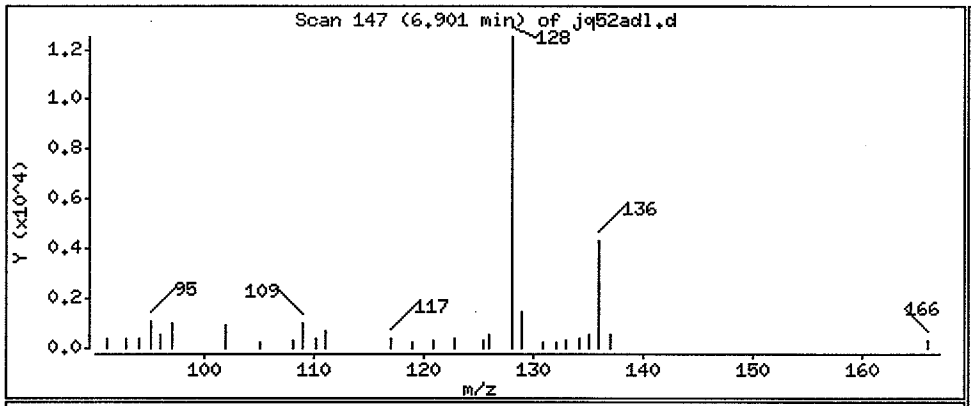
Column phase: ZB-5

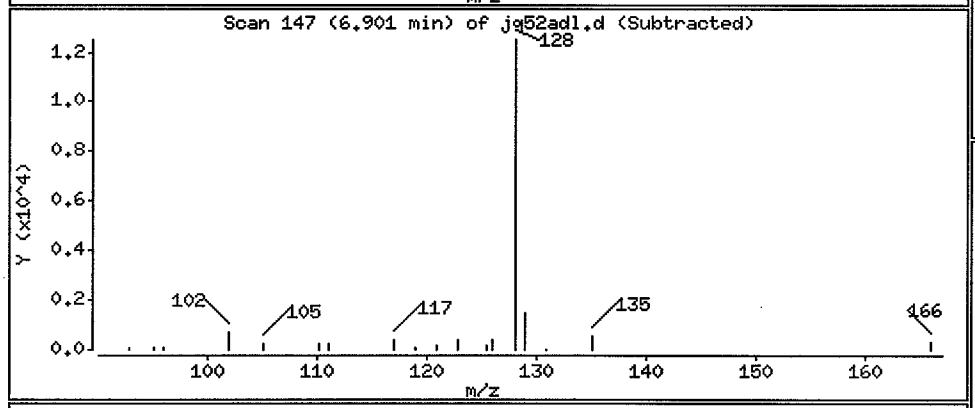
Column diameter: 0.25

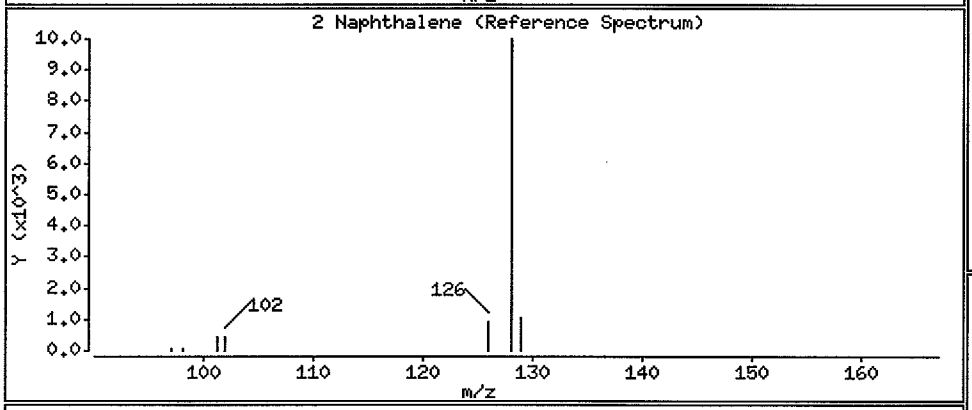
2 Naphthalene

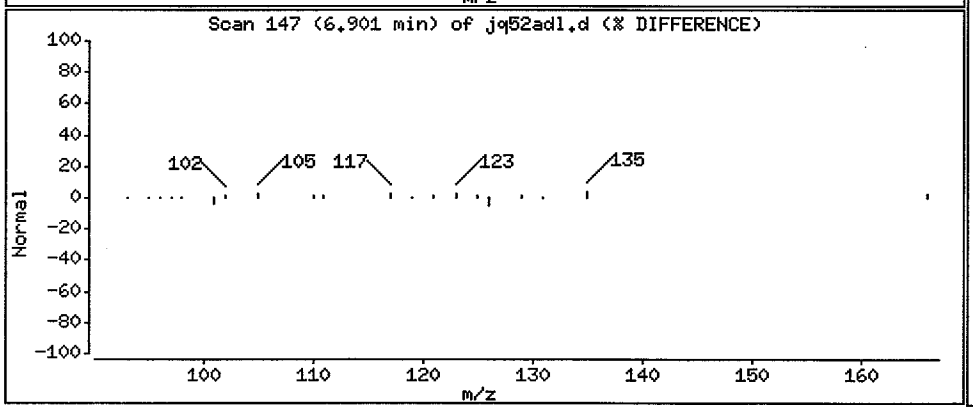
Concentration: 240.7 ug/kg

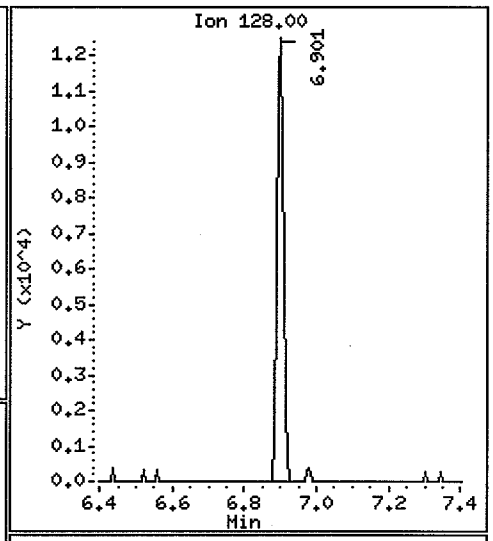
J UL

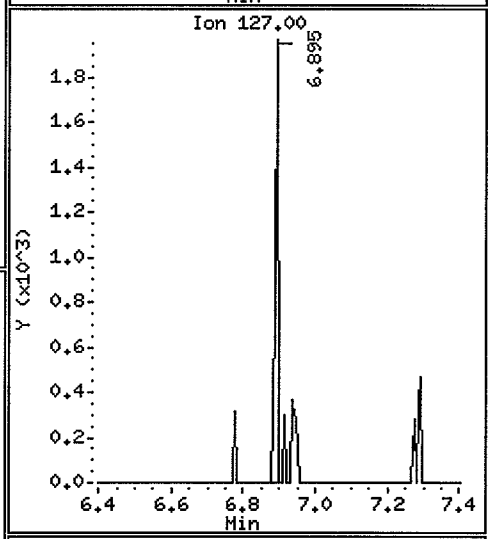


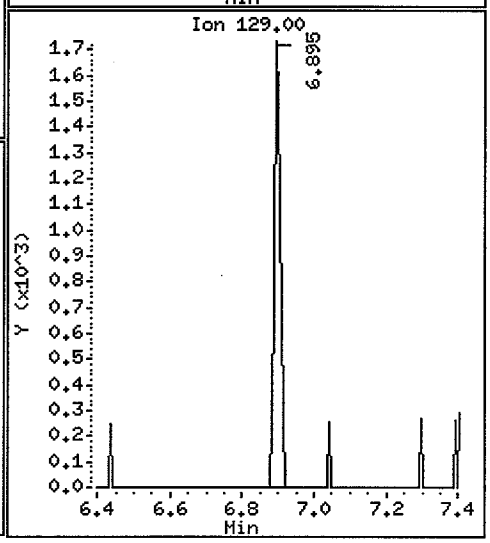












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

Operator: VTS

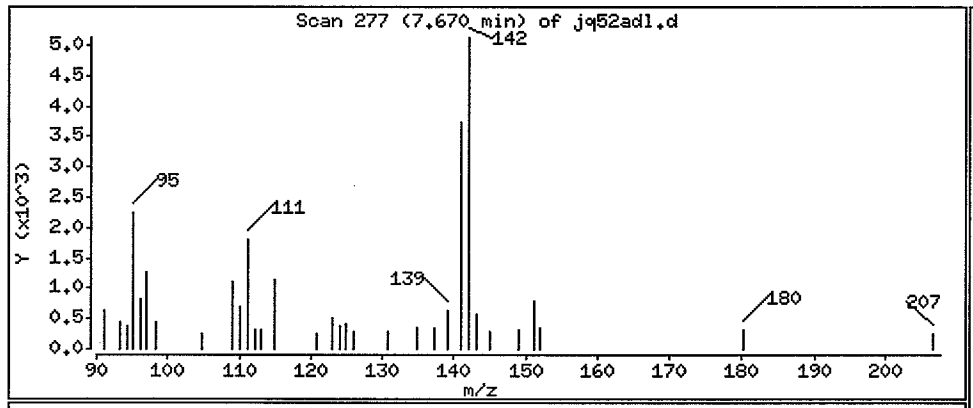
Column phase: ZB-5

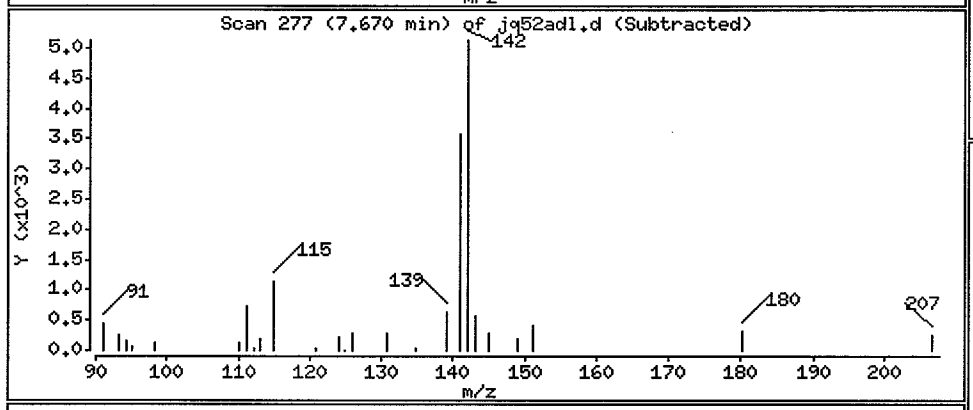
Column diameter: 0.25

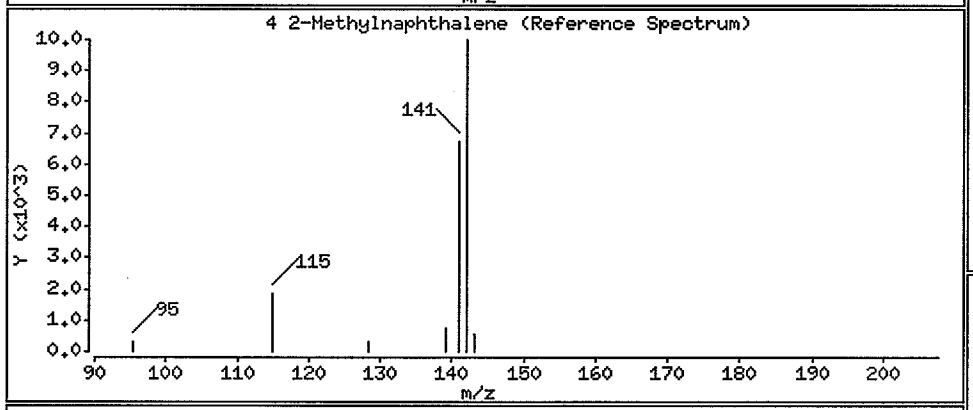
4 2-Methylnaphthalene

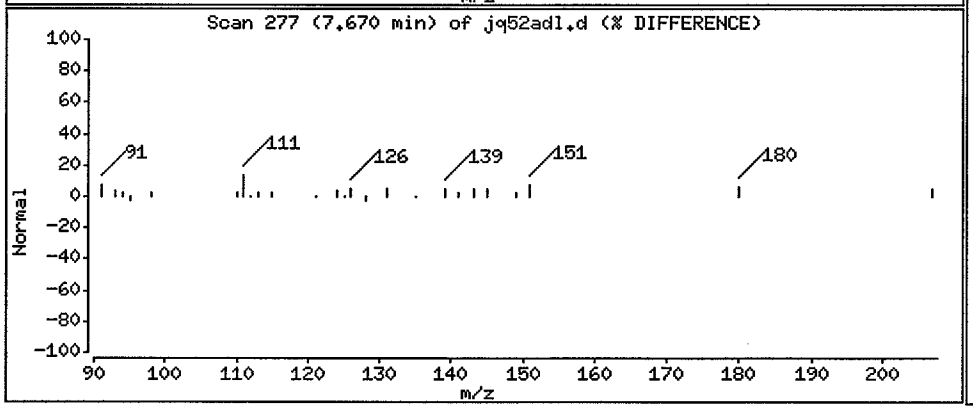
Concentration: 146.4 ug/kg

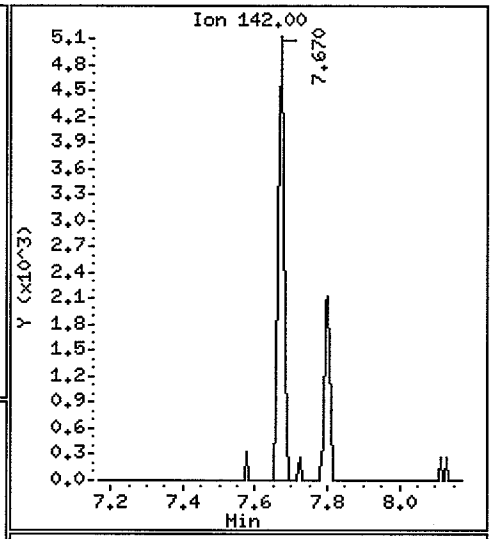
JLM

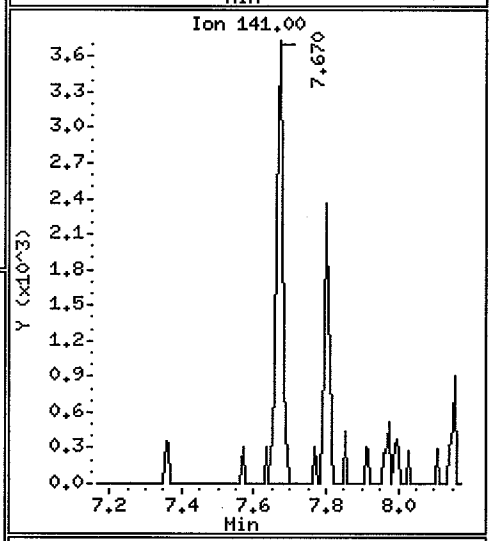


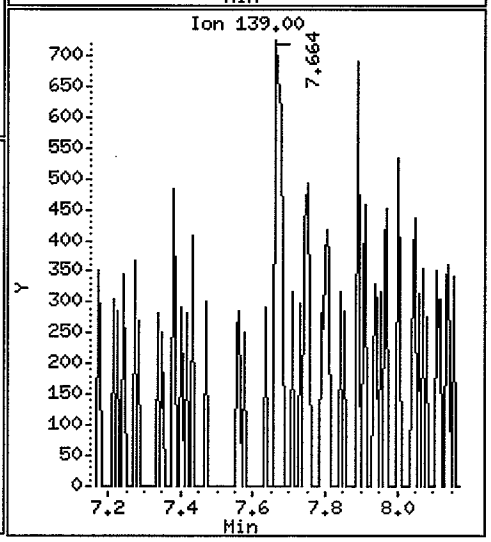












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

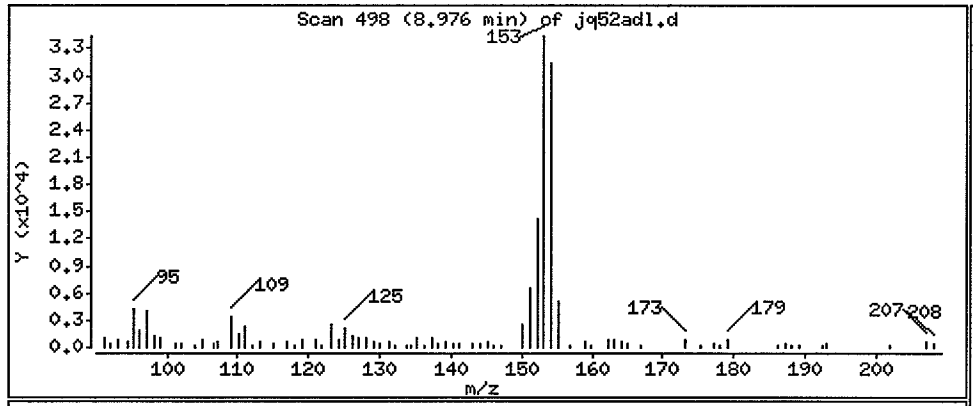
Operator: VTS

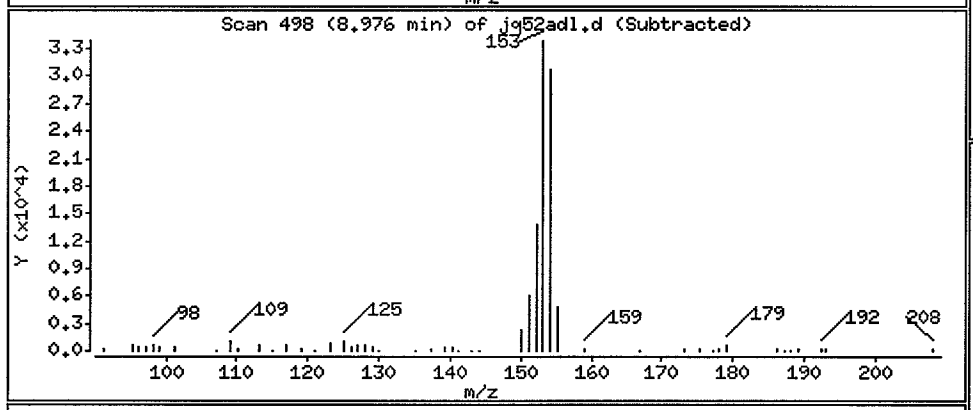
Column phase: ZB-5

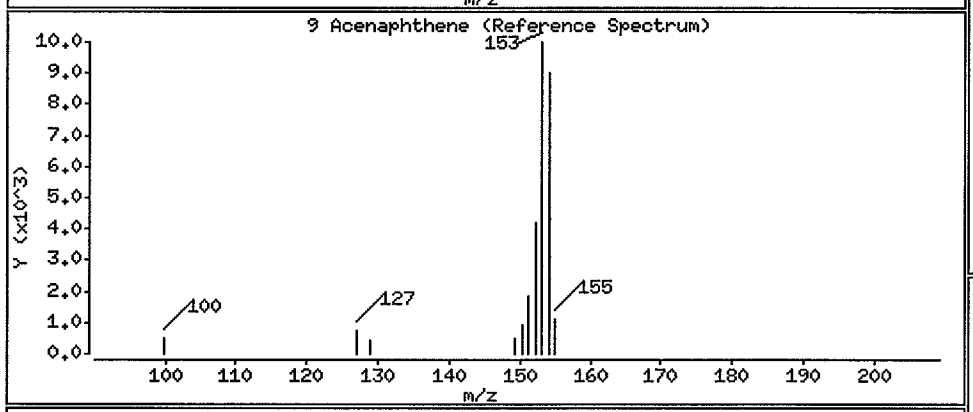
Column diameter: 0.25

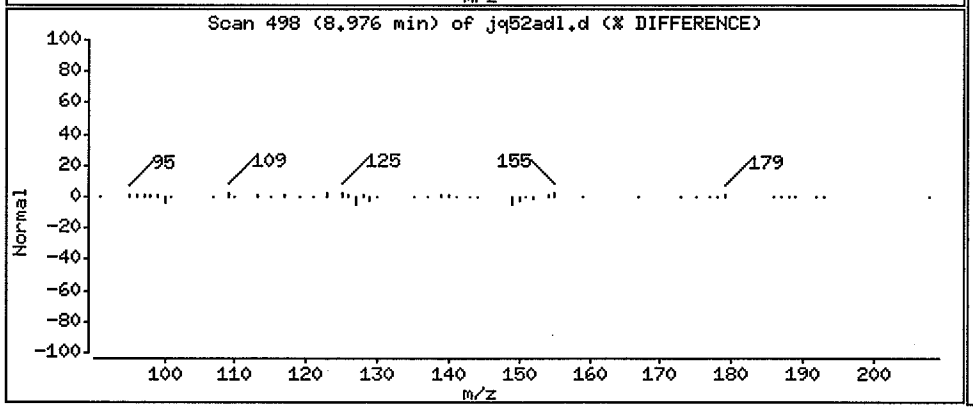
9 Acenaphthene

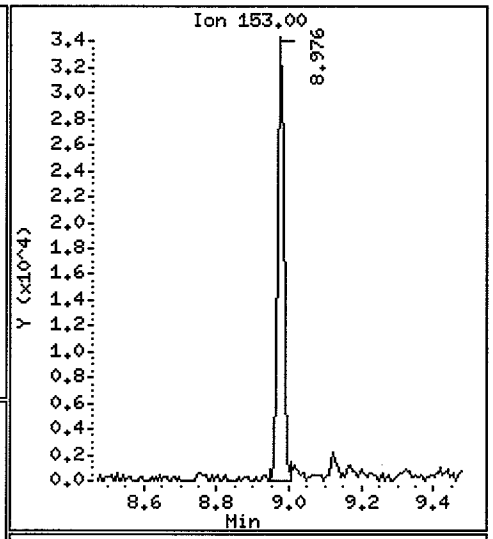
Concentration: 1272 ug/kg

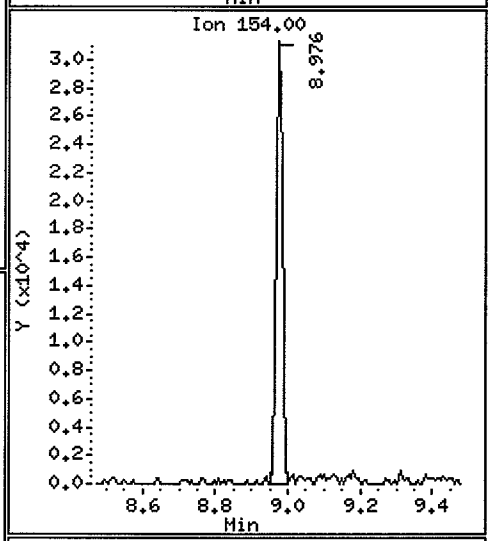


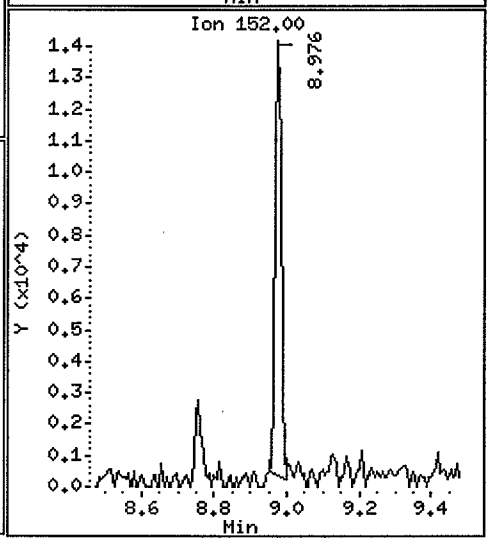












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

Operator: VTS

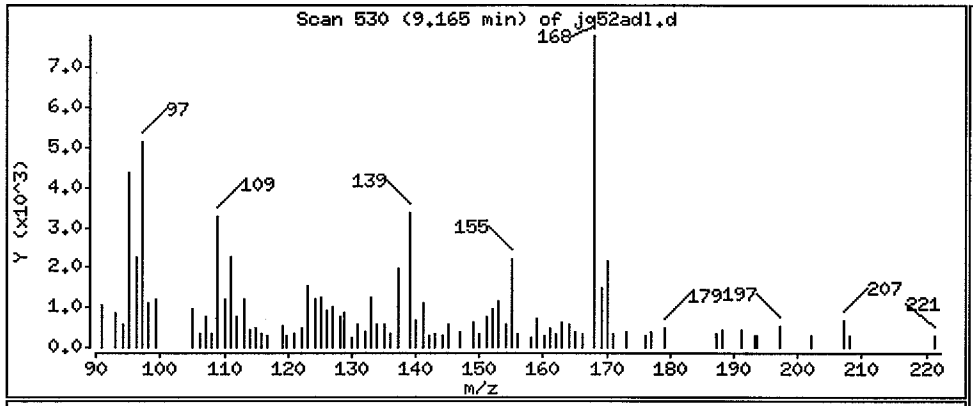
Column phase: ZB-5

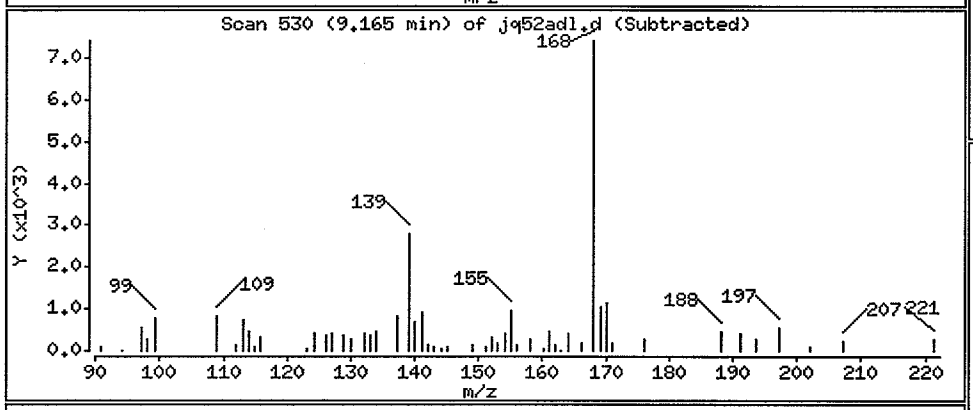
Column diameter: 0.25

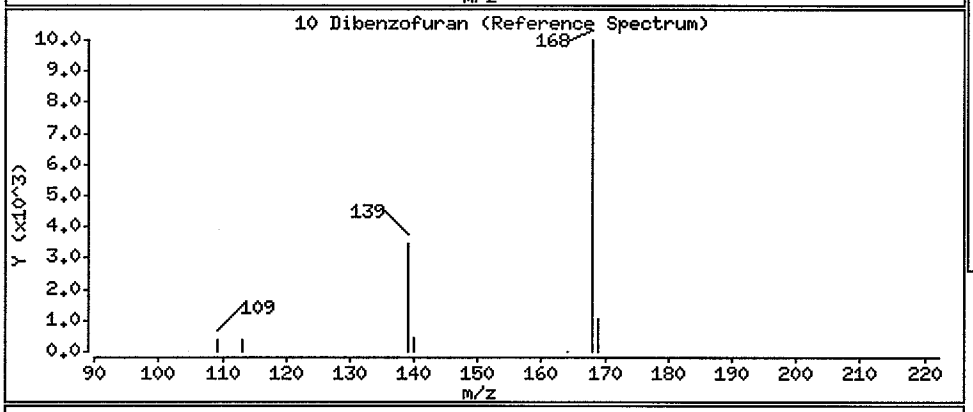
J per cpl

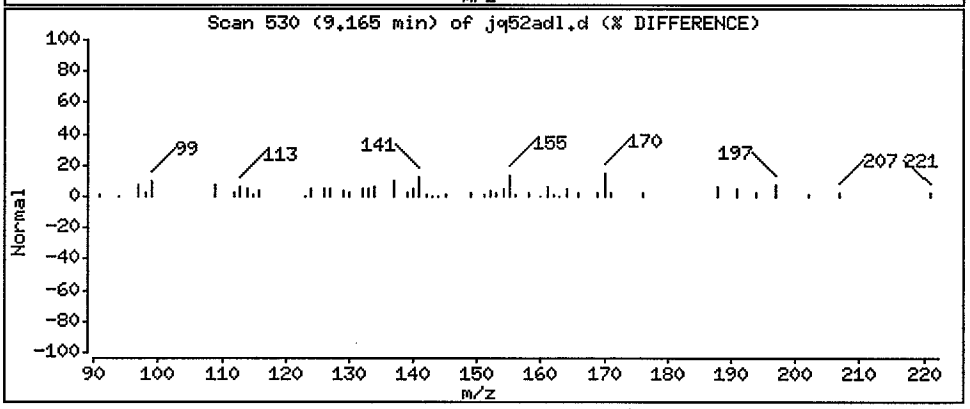
10 Dibenzofuran

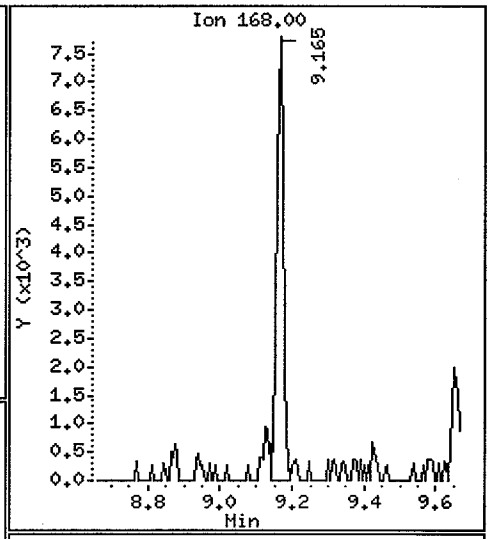
Concentration: 214.1 ug/kg

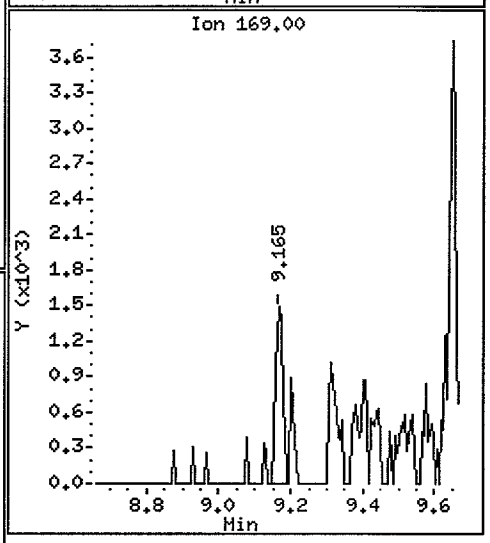












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

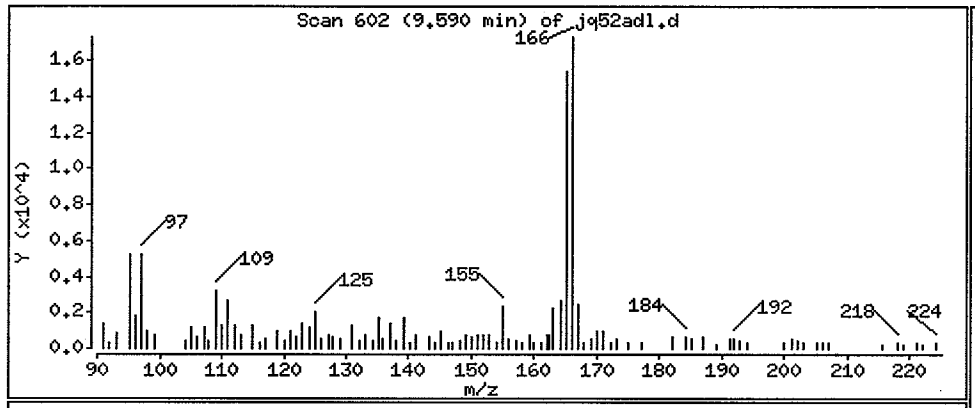
Operator: VTS

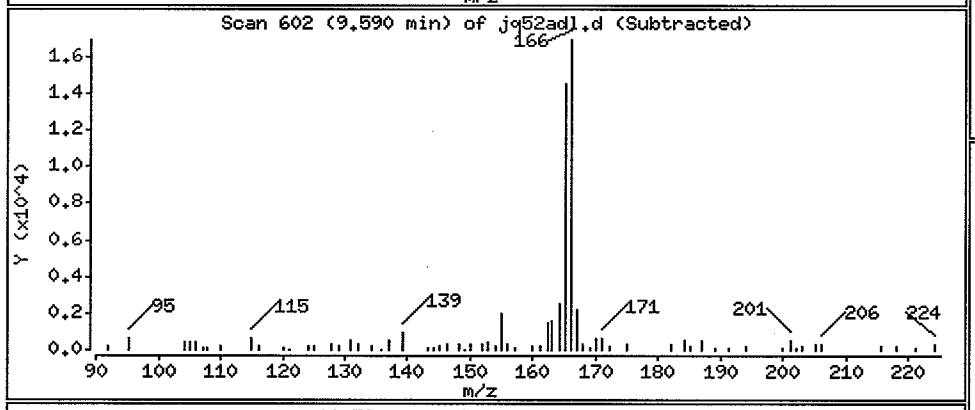
Column phase: ZB-5

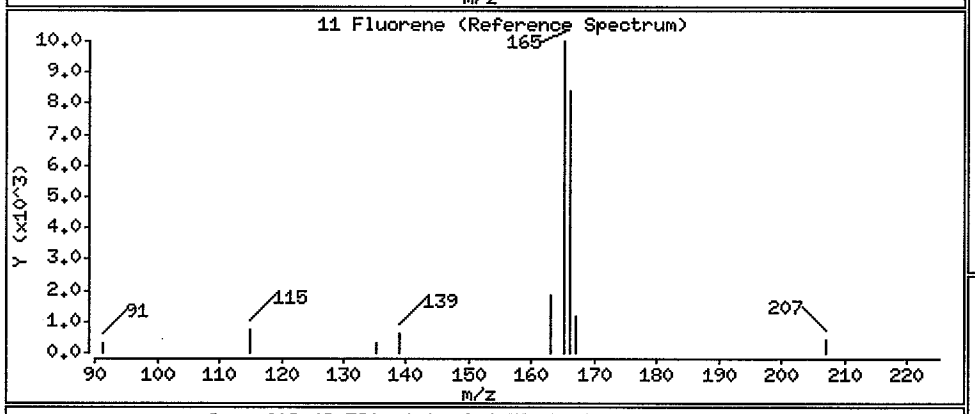
Column diameter: 0.25

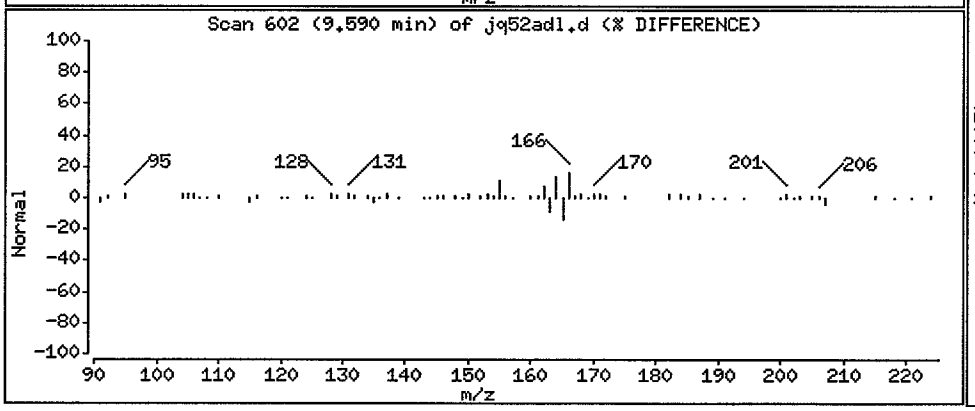
11 Fluorene

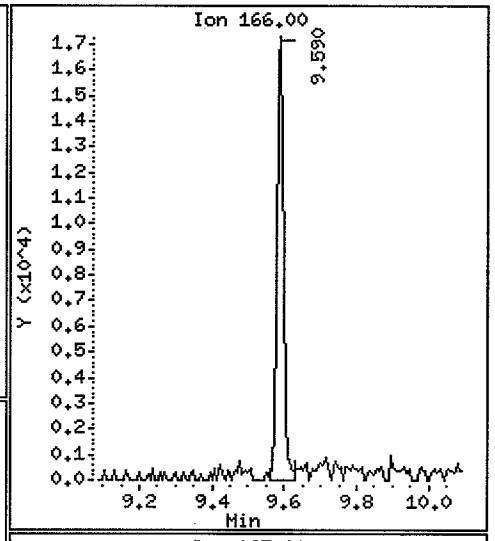
Concentration: 612.4 ug/kg

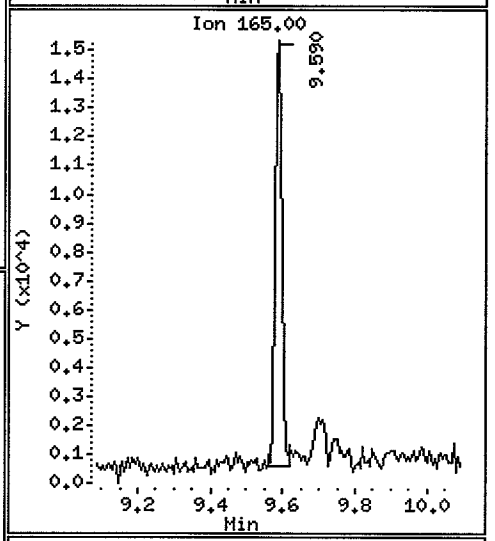


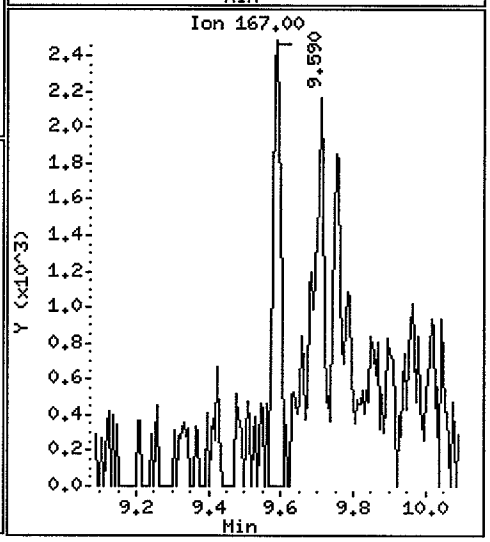












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

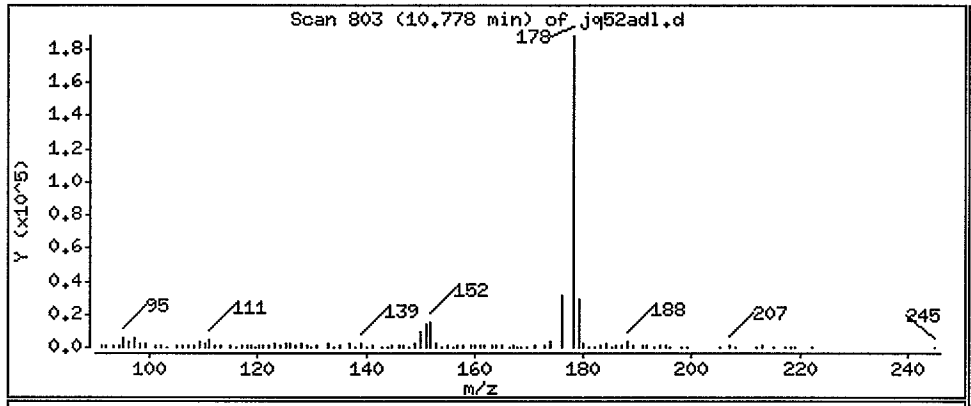
Operator: VTS

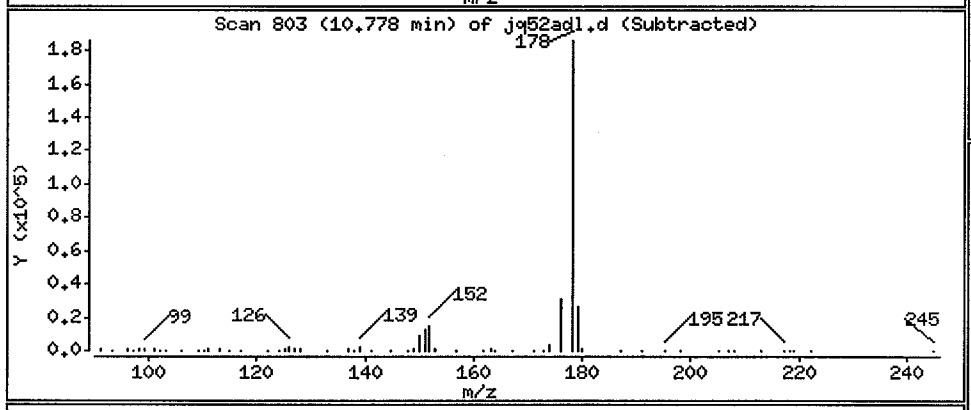
Column phase: ZB-5

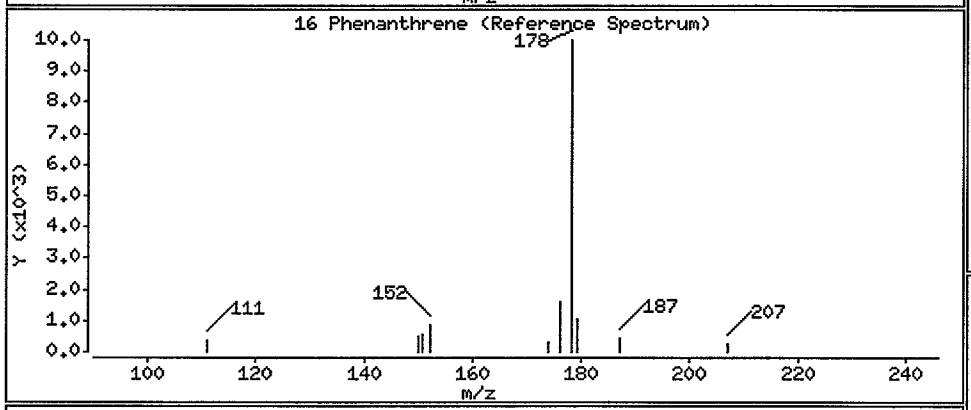
Column diameter: 0.25

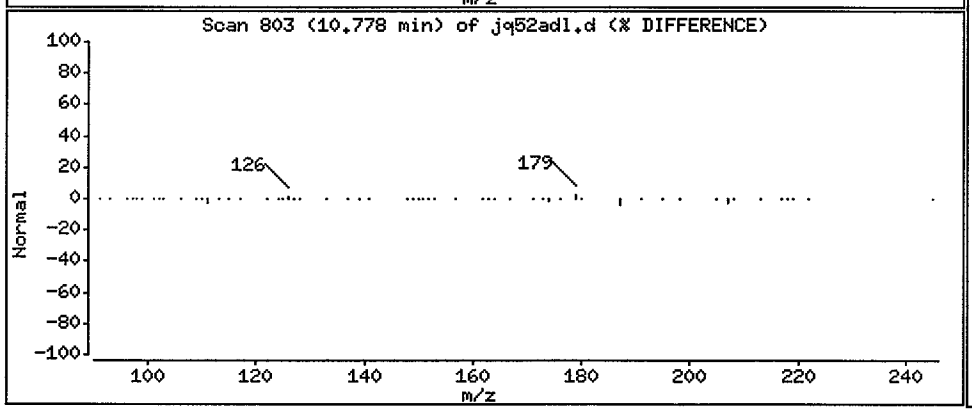
16 Phenanthrene

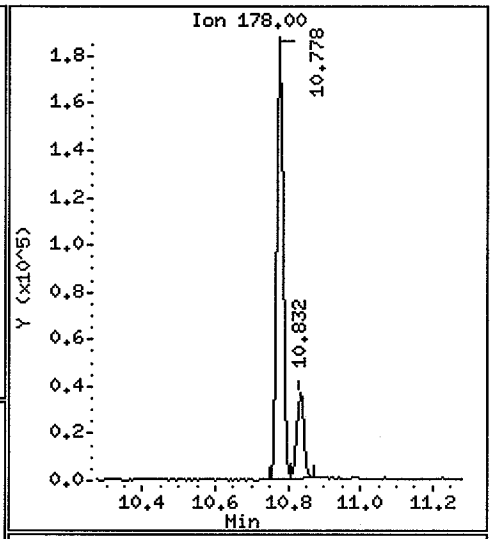
Concentration: 4713 ug/kg

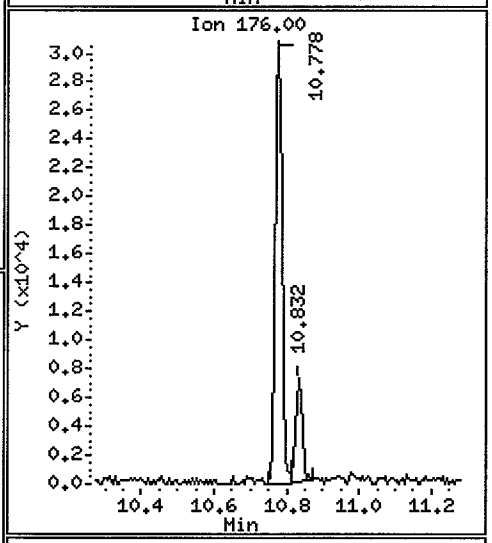


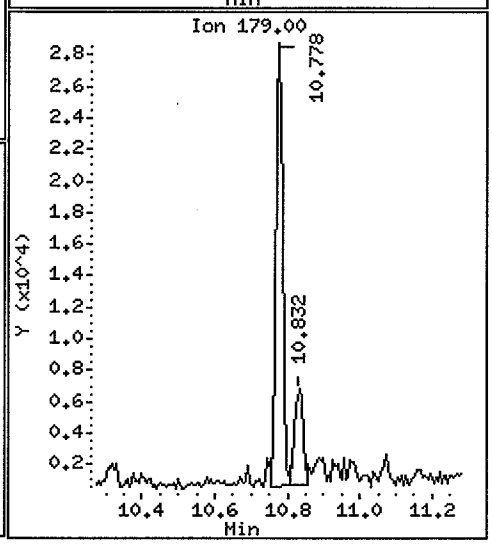












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

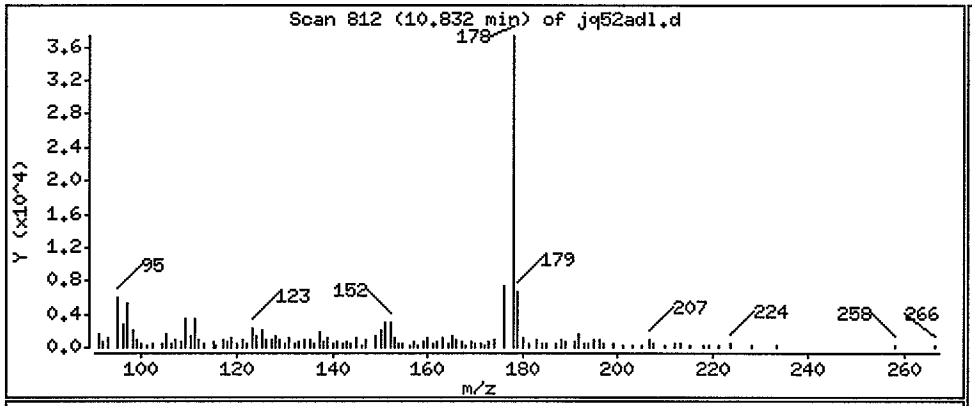
Operator: VTS

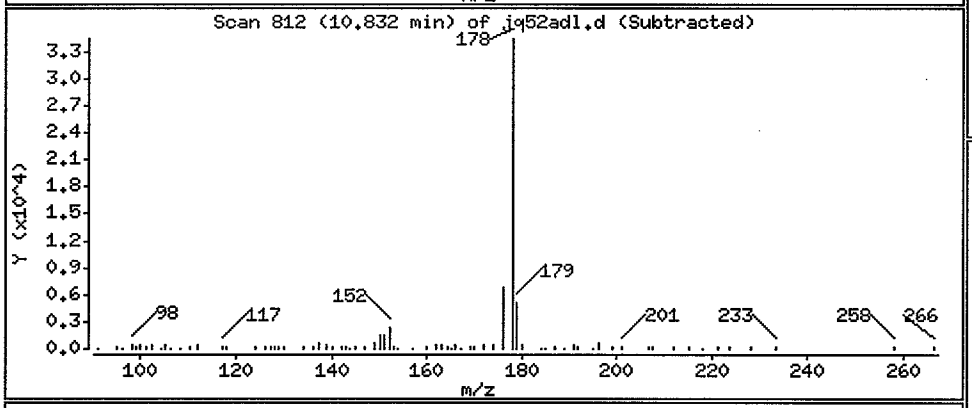
Column phase: ZB-5

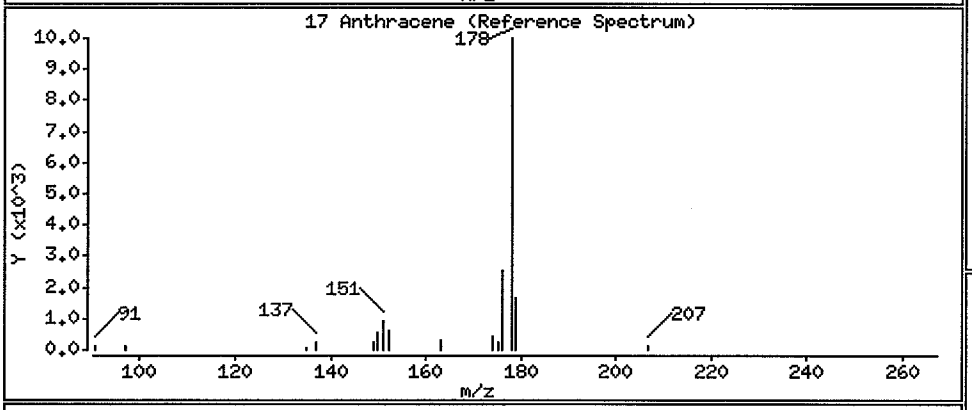
Column diameter: 0.25

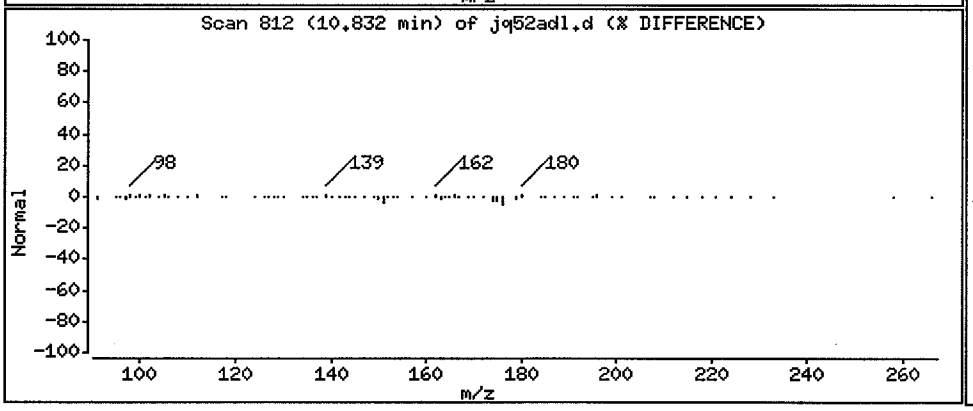
17 Anthracene

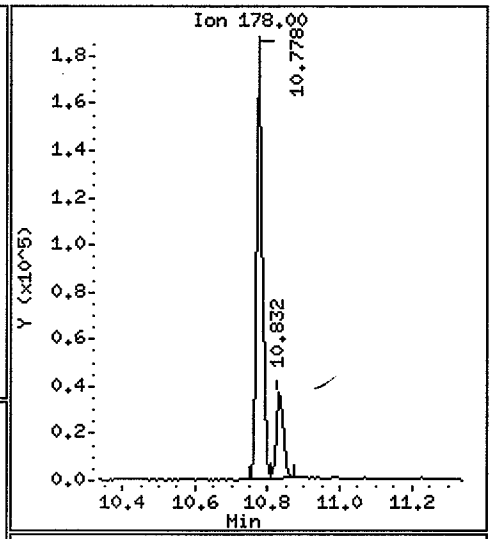
Concentration: 1062 ug/kg

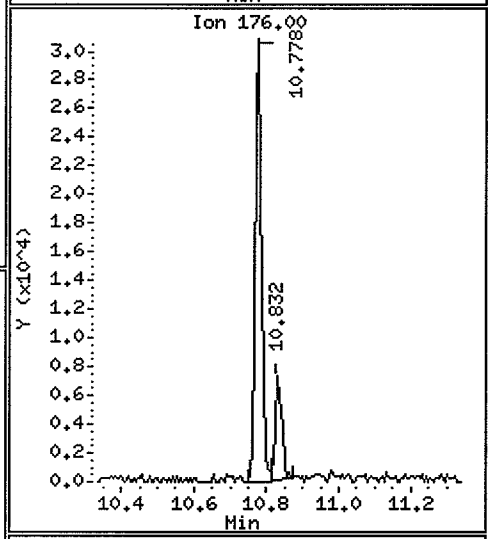


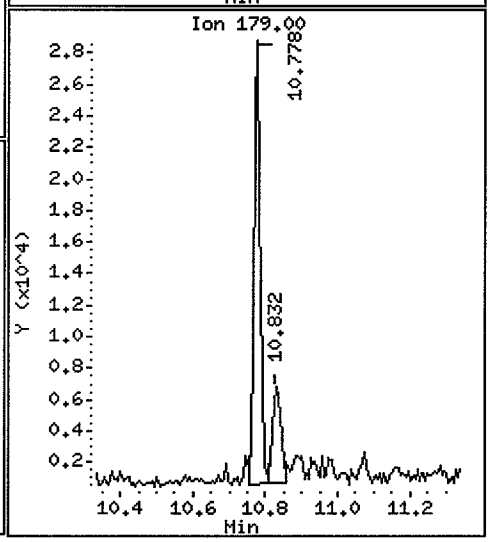












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

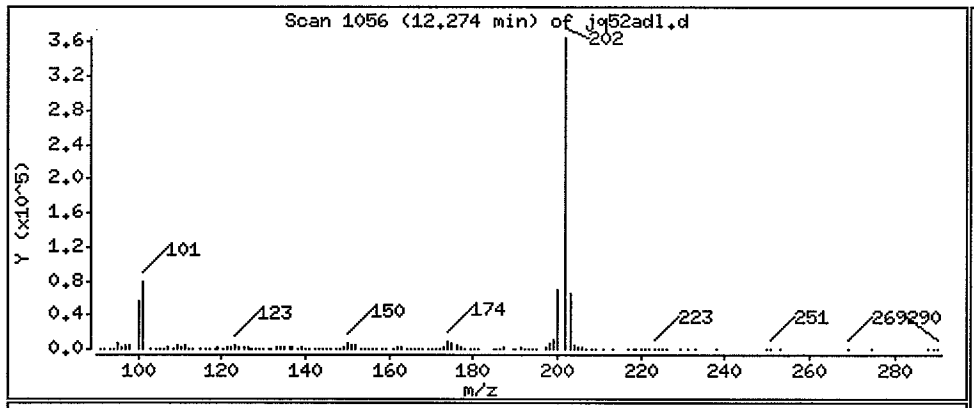
Operator: VTS

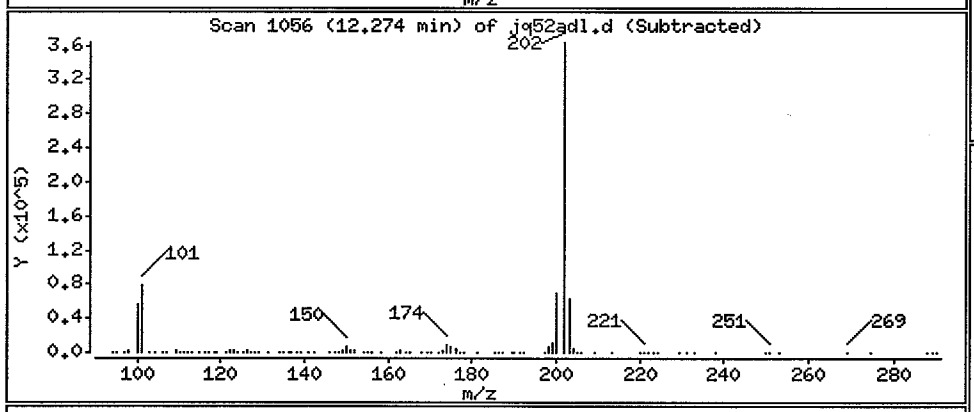
Column phase: ZB-5

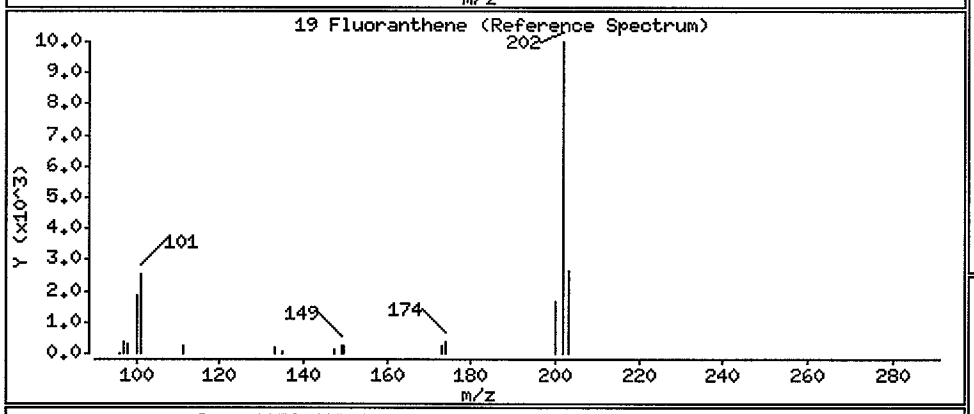
Column diameter: 0.25

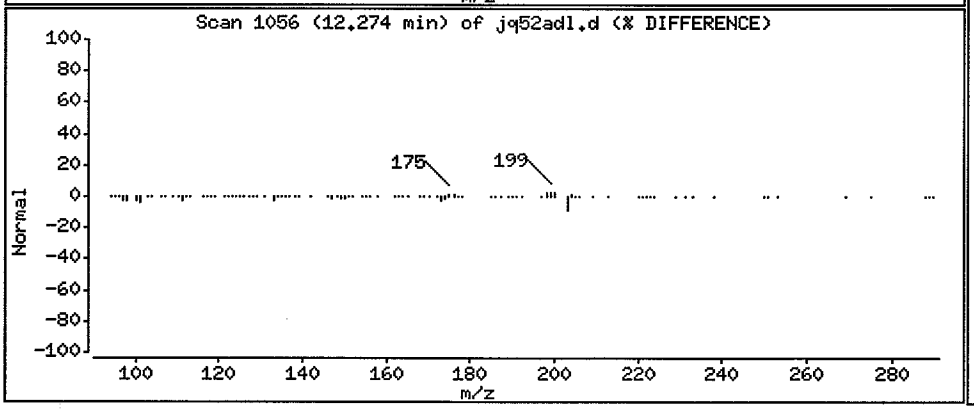
19 Fluoranthene

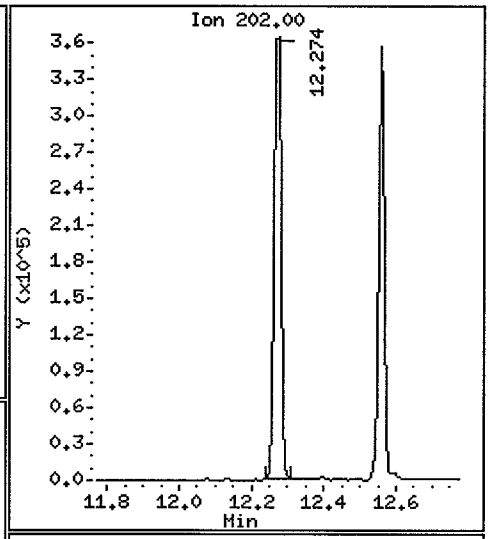
Concentration: 10160 ug/kg

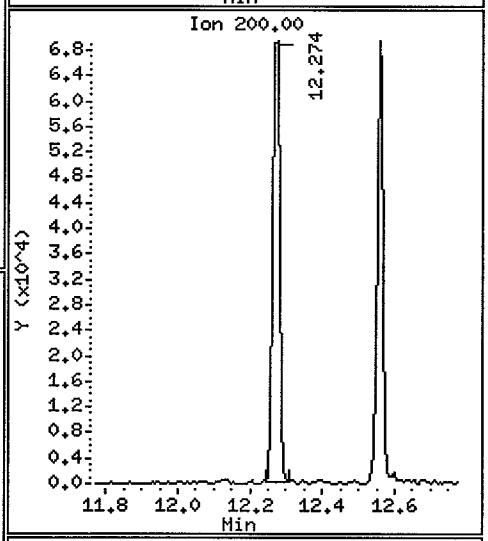


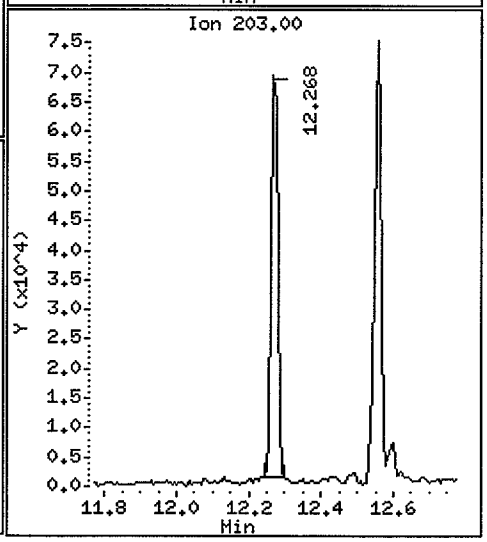












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

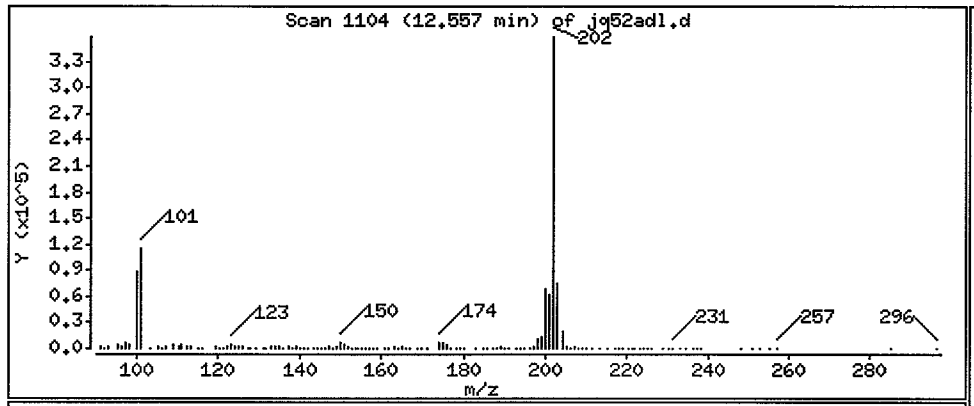
Operator: VTS

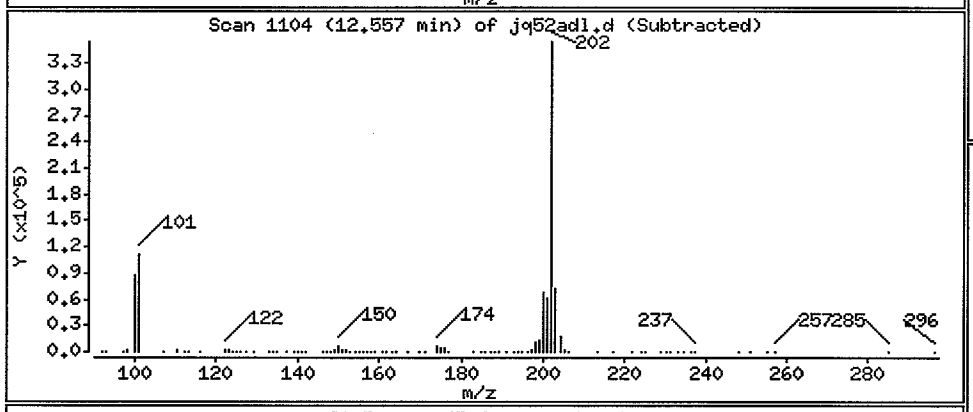
Column phase: ZB-5

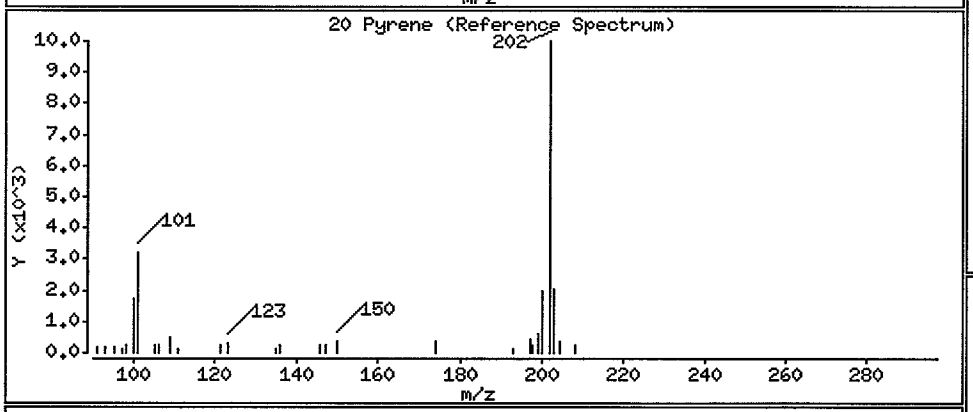
Column diameter: 0.25

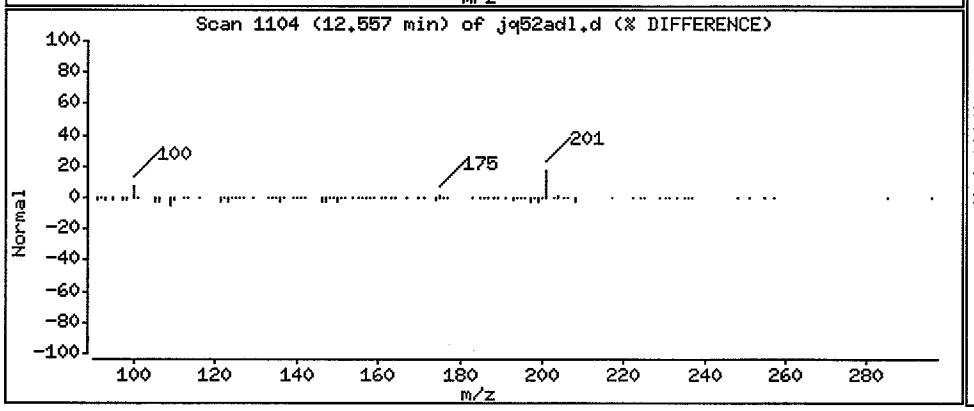
20 Pyrene

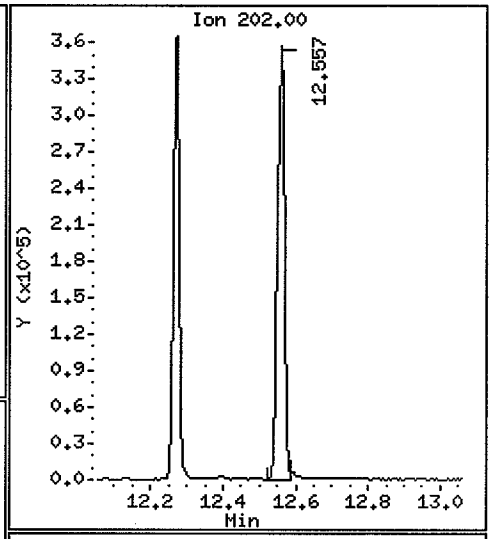
Concentration: 8910 ug/kg

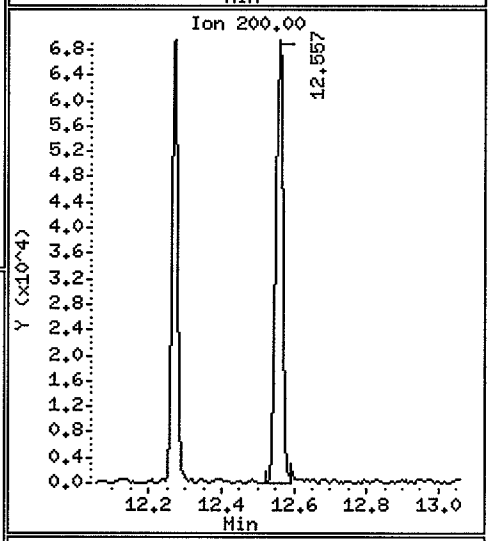


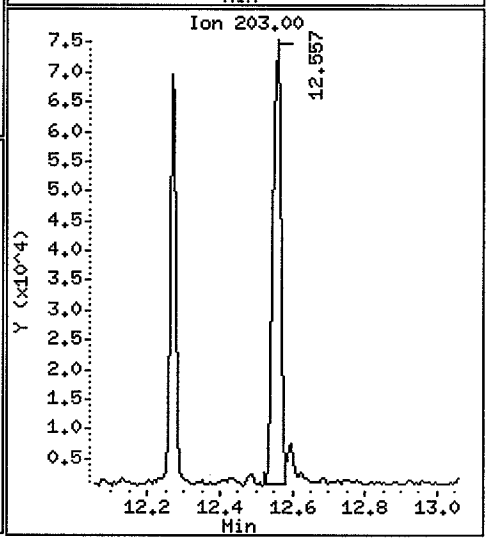












Data File: /chem3/nt1.i/20060809.b/jq52adl.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

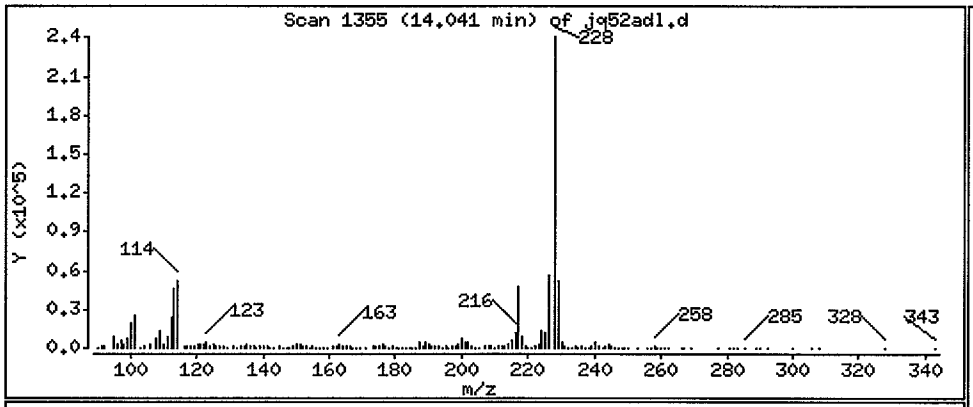
Operator: VTS

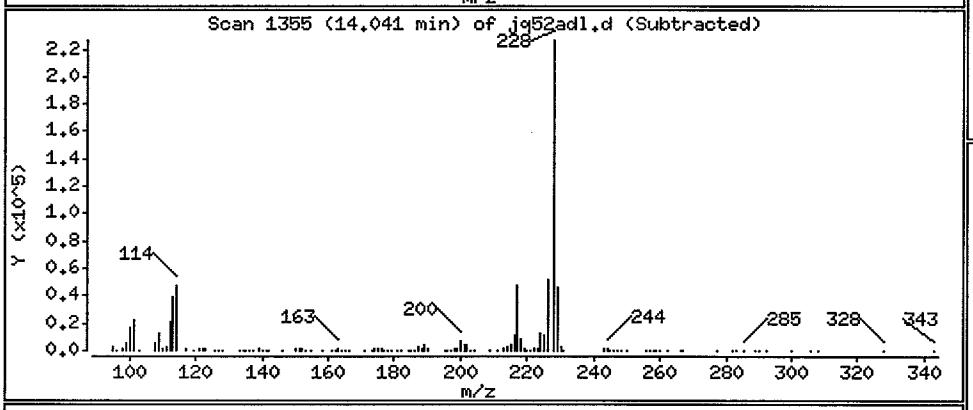
Column phase: ZB-5

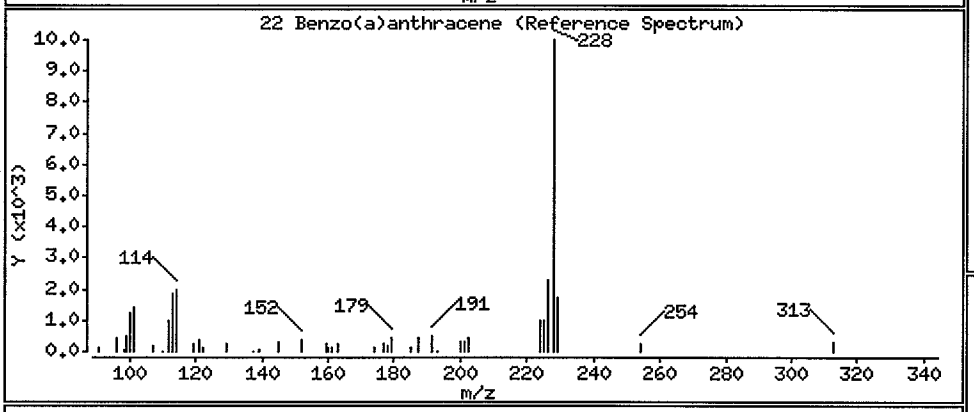
Column diameter: 0.25

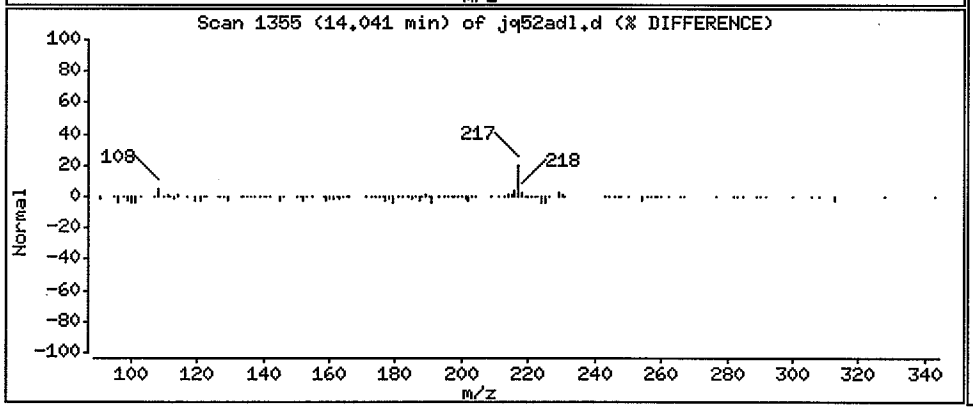
22 Benzo(a)anthracene

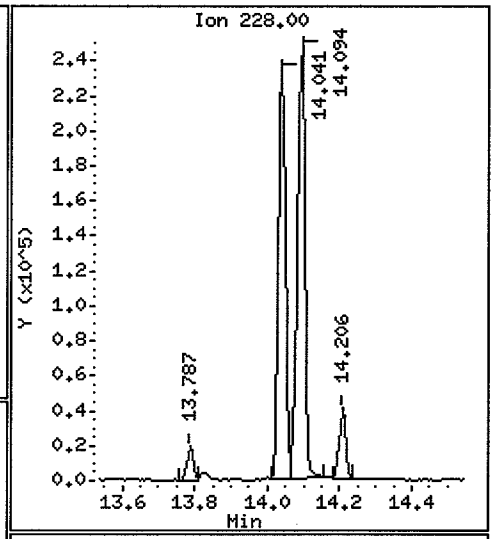
Concentration: 6360 ug/kg

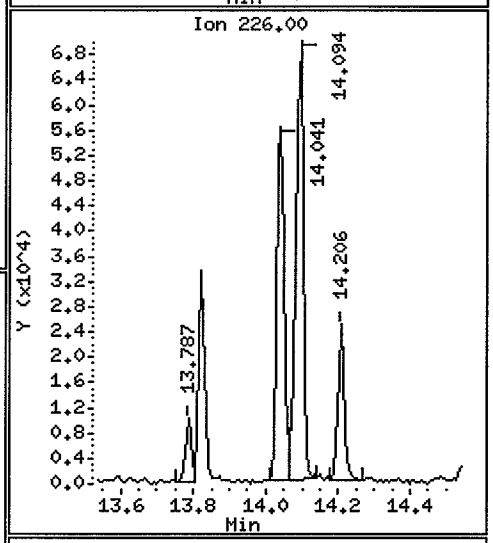


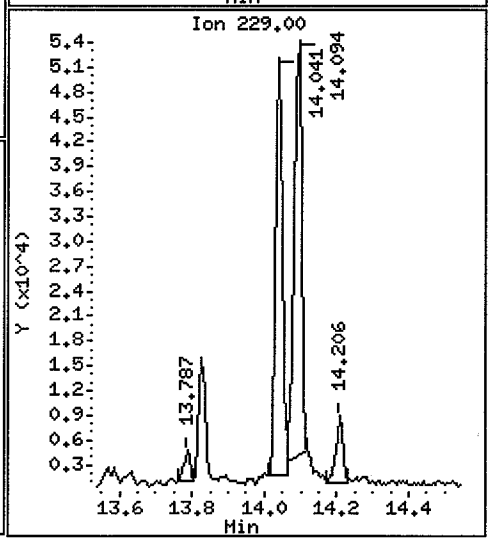












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

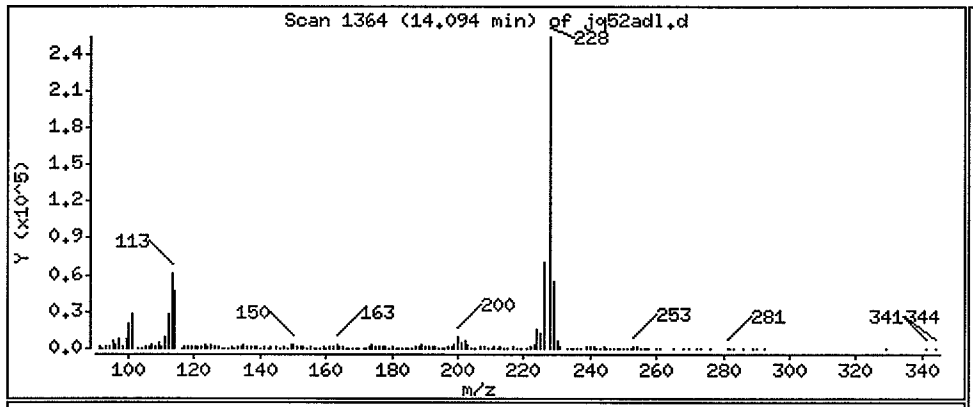
Operator: VTS

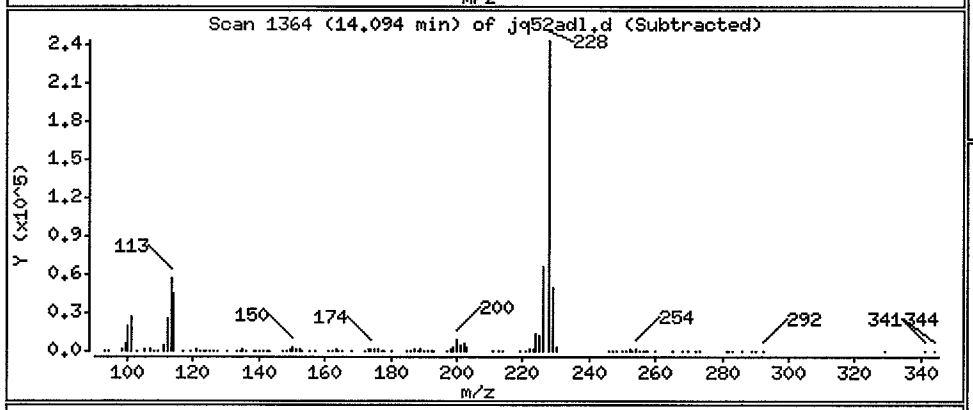
Column phase: ZB-5

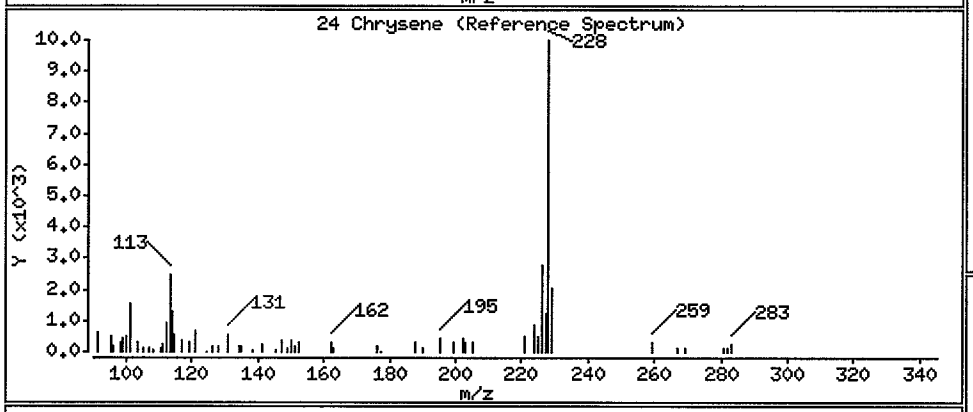
Column diameter: 0.25

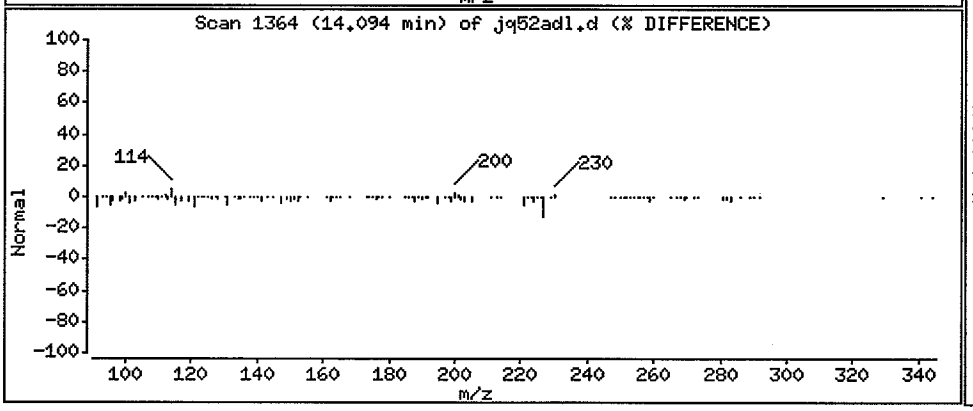
24 Chrysene

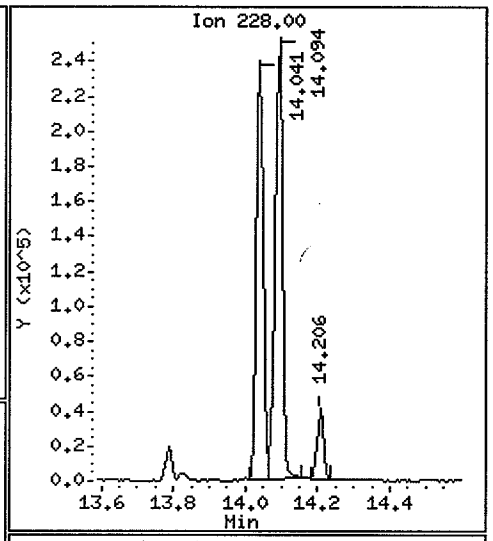
Concentration: 7772 ug/kg

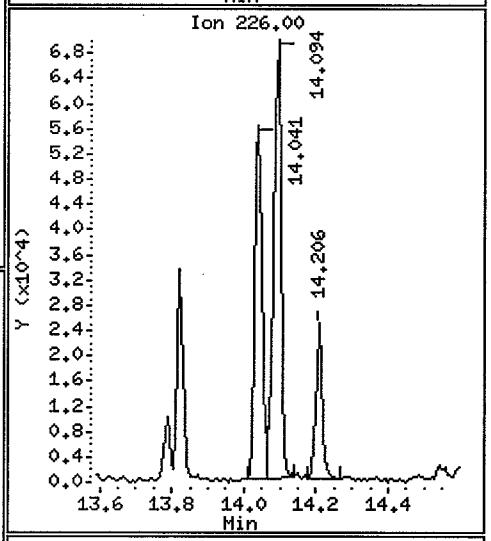


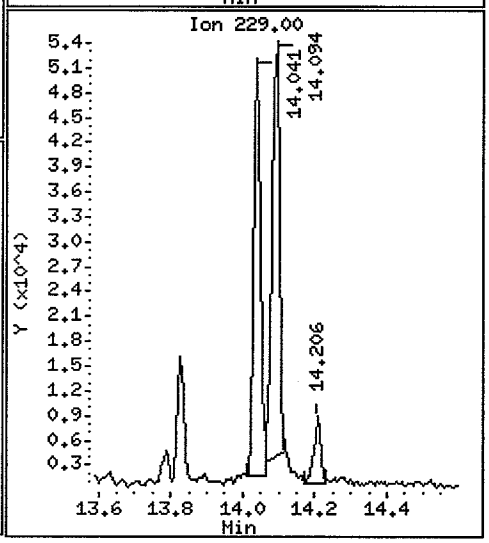












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

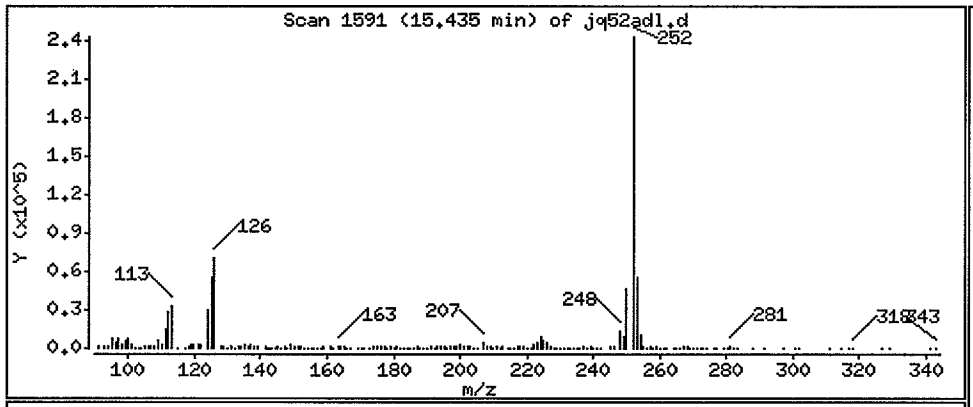
Operator: VTS

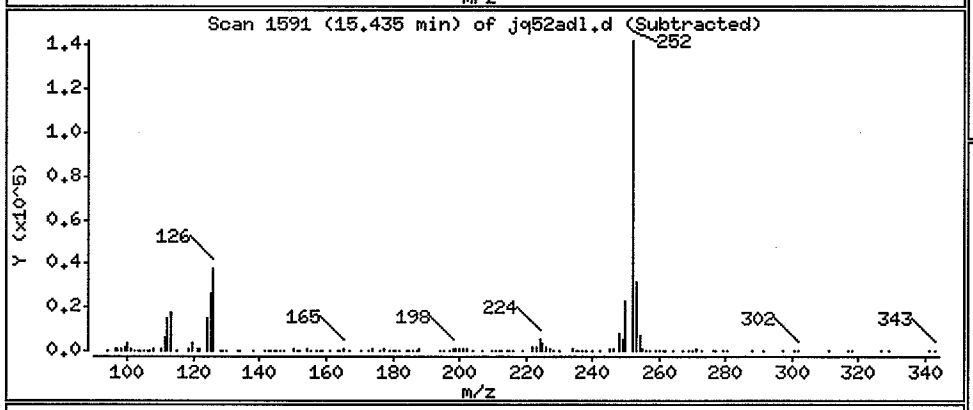
Column phase: ZB-5

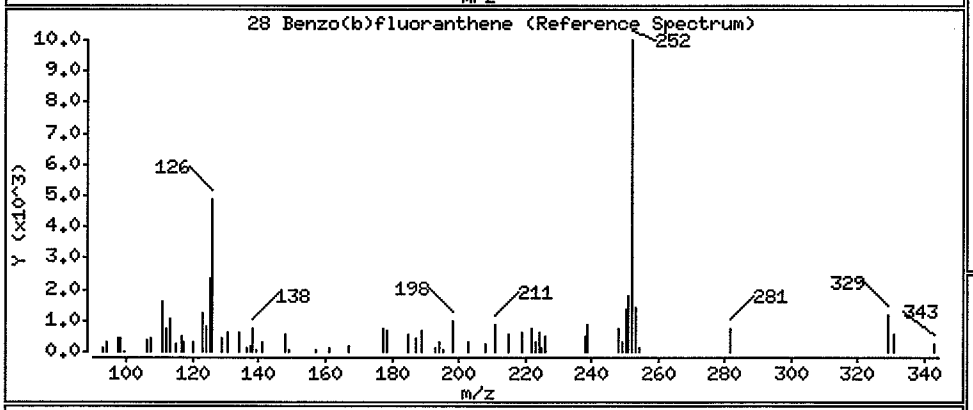
Column diameter: 0.25

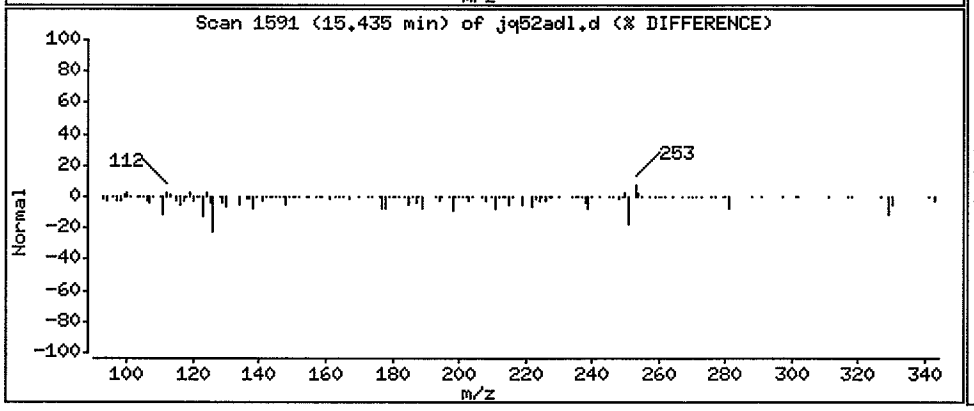
28 Benzo(b)fluoranthene

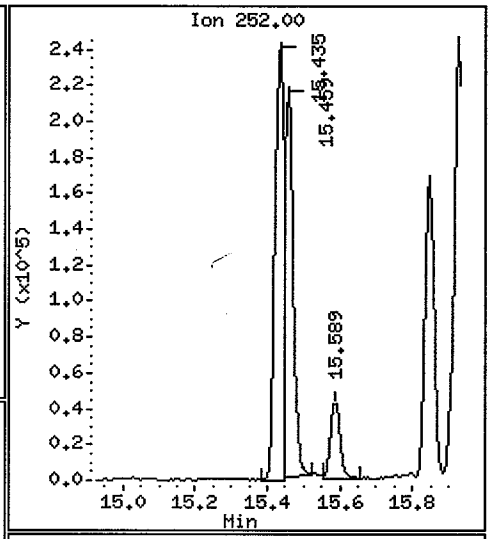
Concentration: 7975 ug/kg

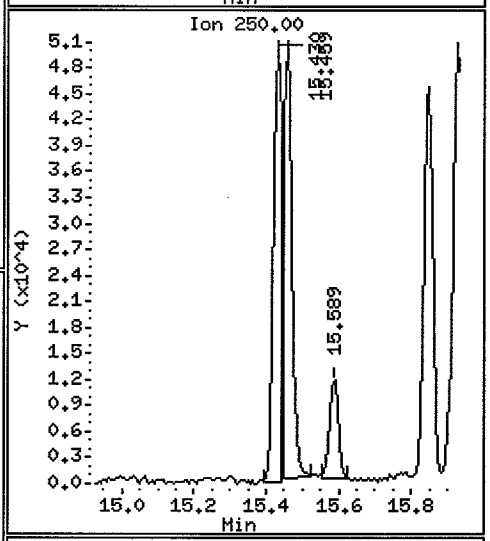


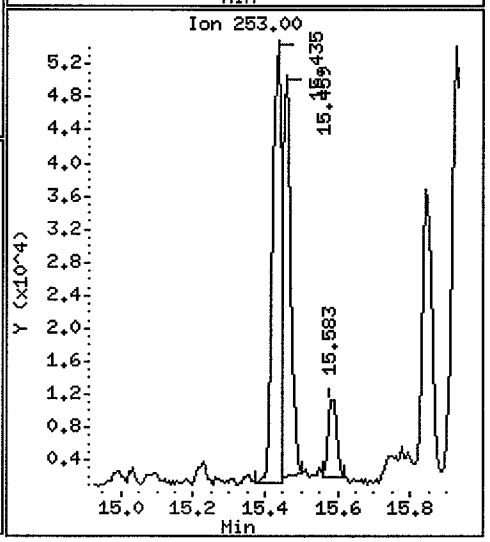












Data File: /chem3/nt1.i/20060809.b/jq52adl.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

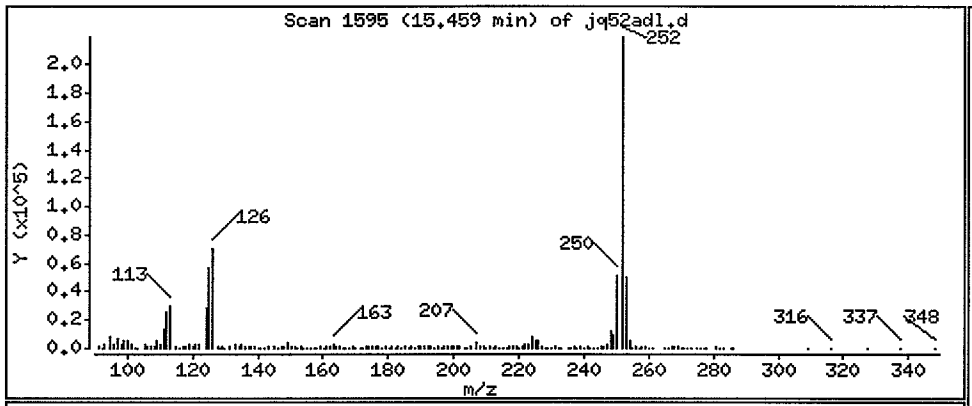
Operator: VTS

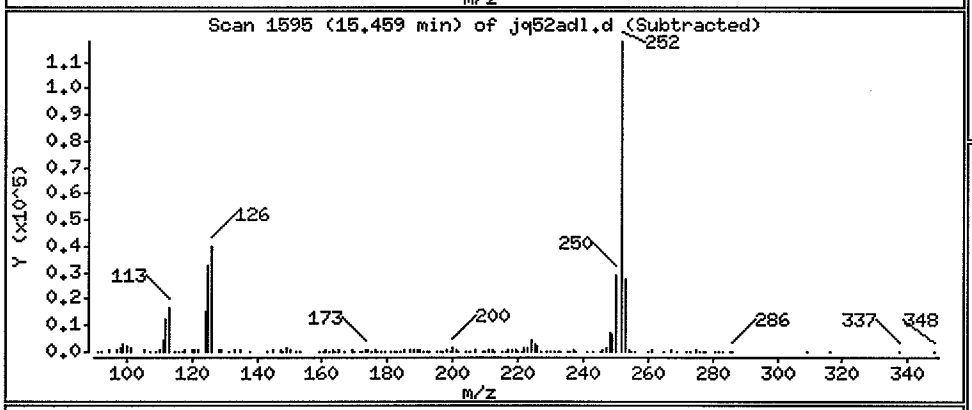
Column phase: ZB-5

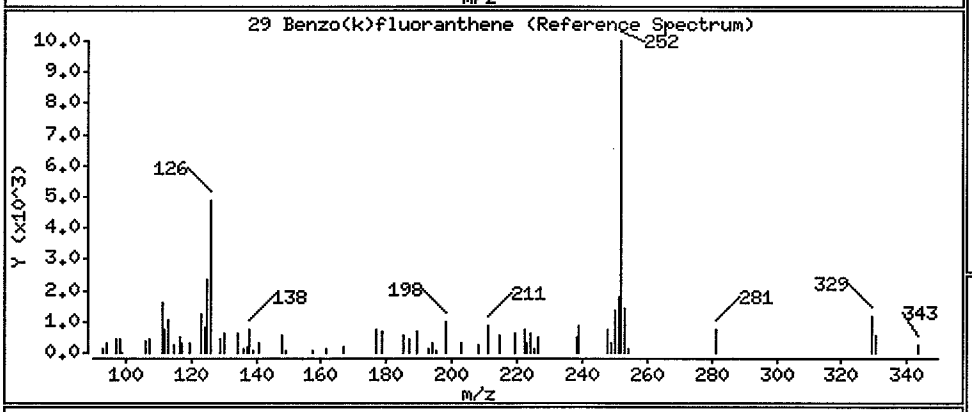
Column diameter: 0.25

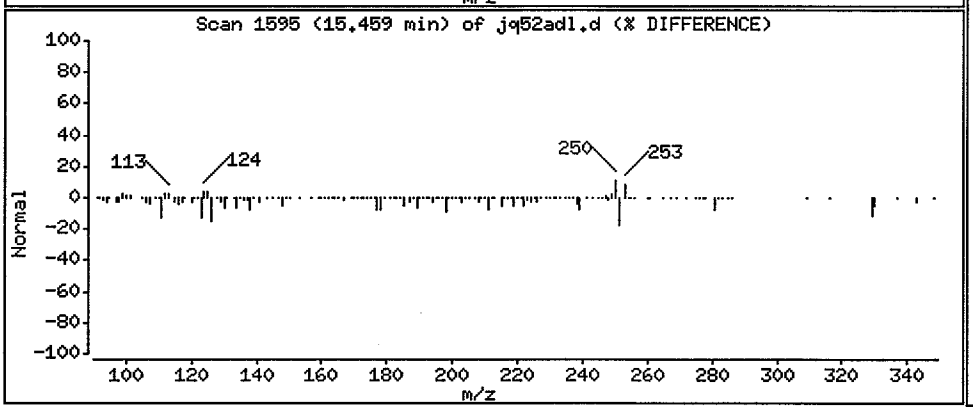
29 Benzo(k)fluoranthene

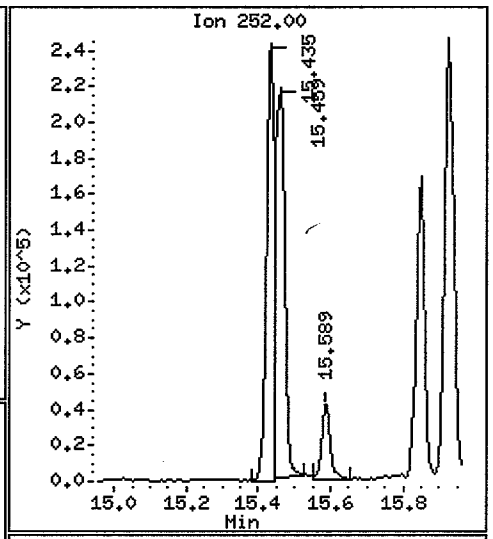
Concentration: 6725 ug/kg

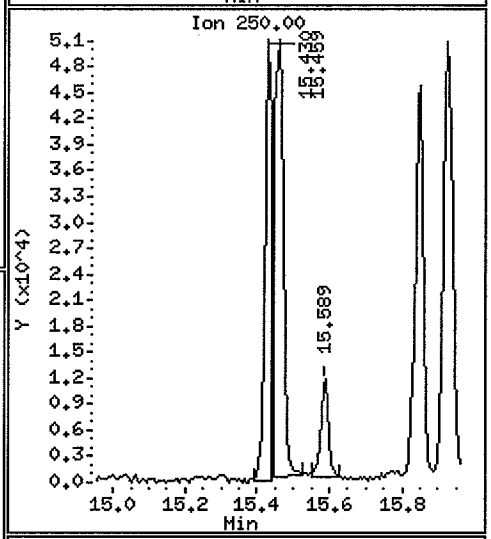


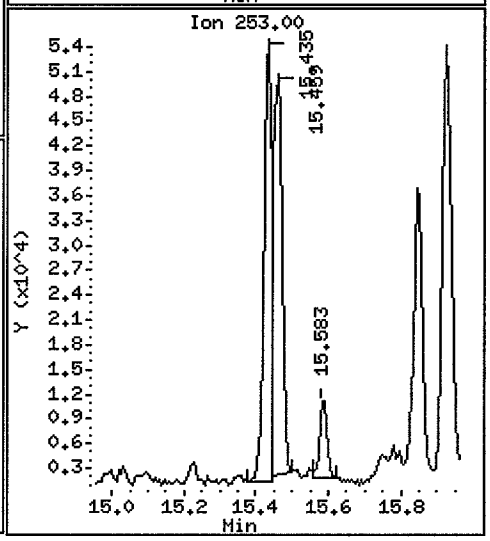












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

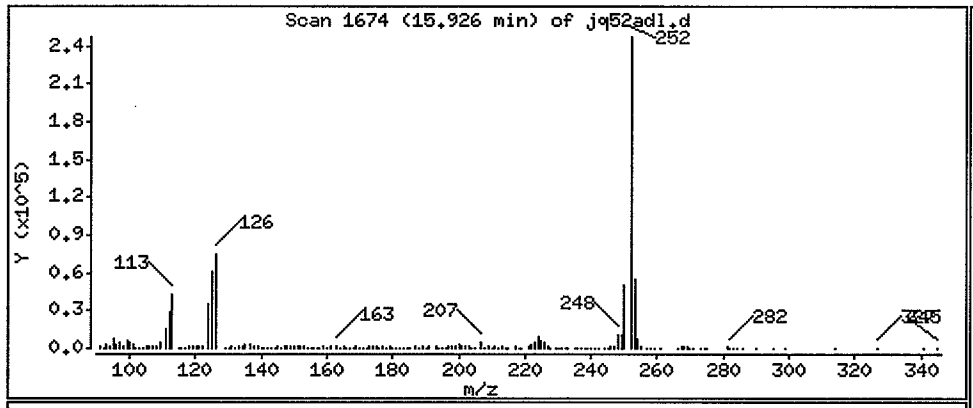
Operator: VTS

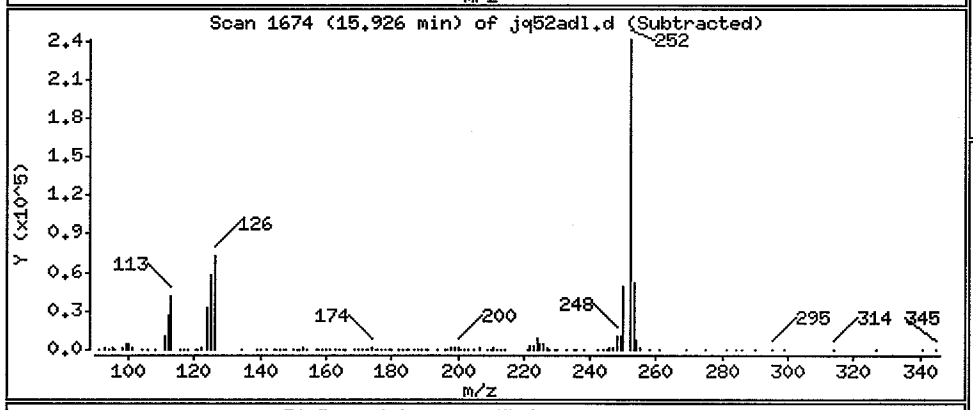
Column phase: ZB-5

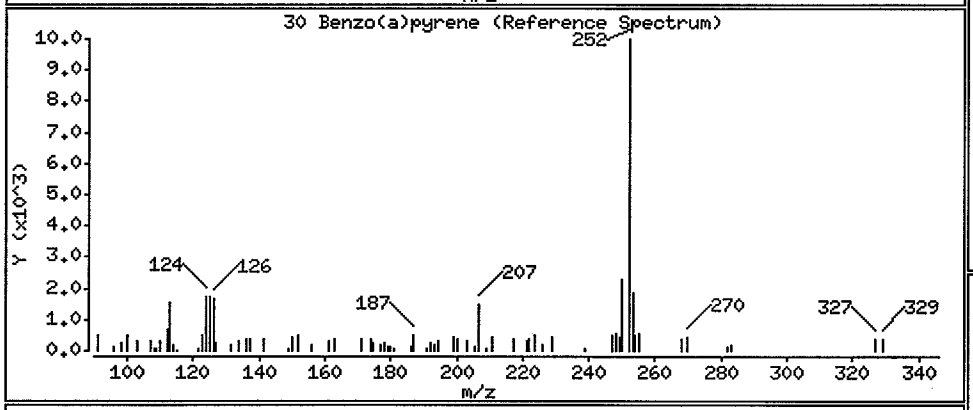
Column diameter: 0.25

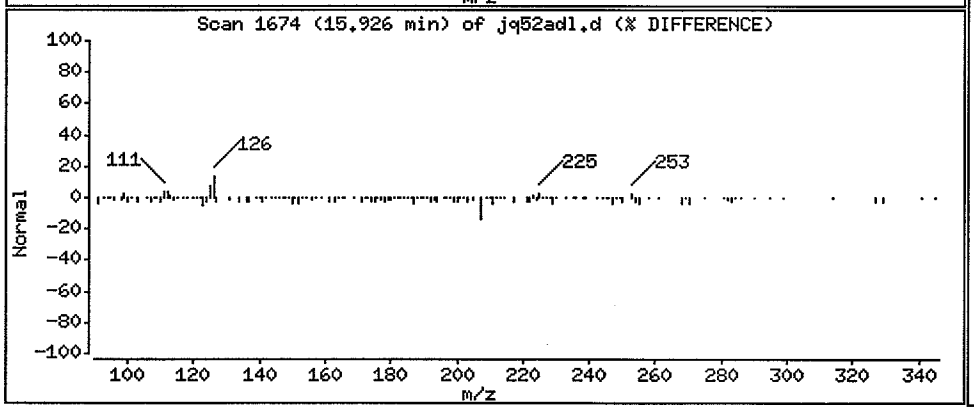
30 Benzo(a)pyrene

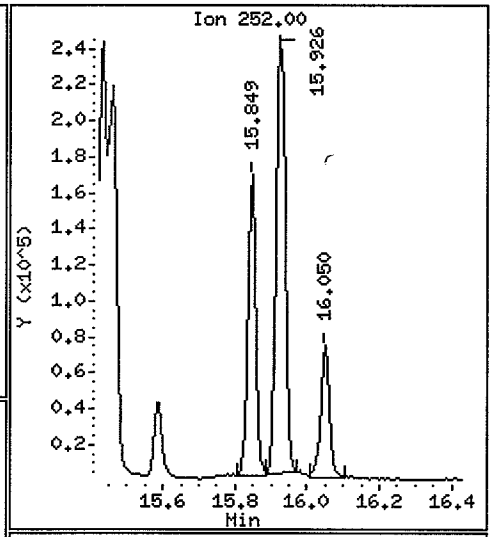
Concentration: 8194 ug/kg

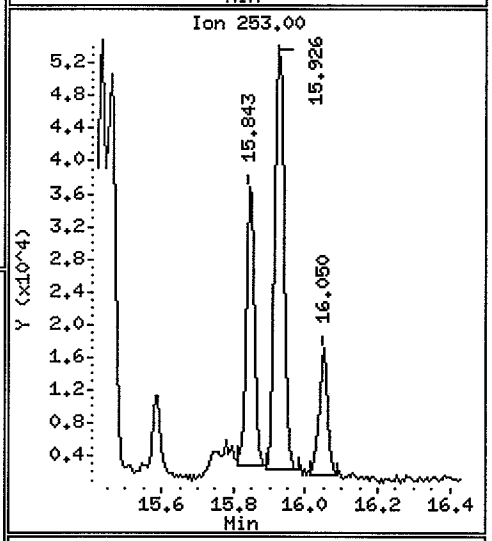


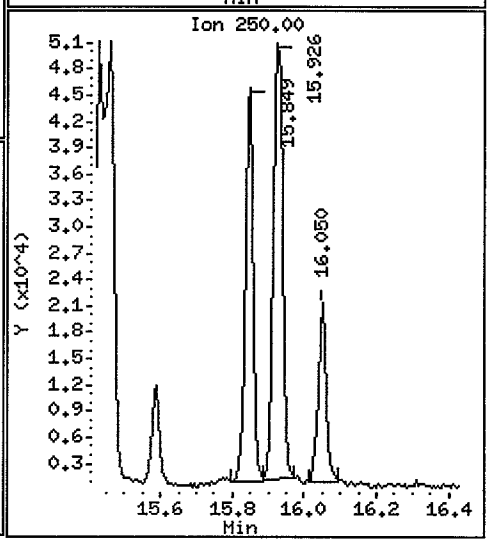












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

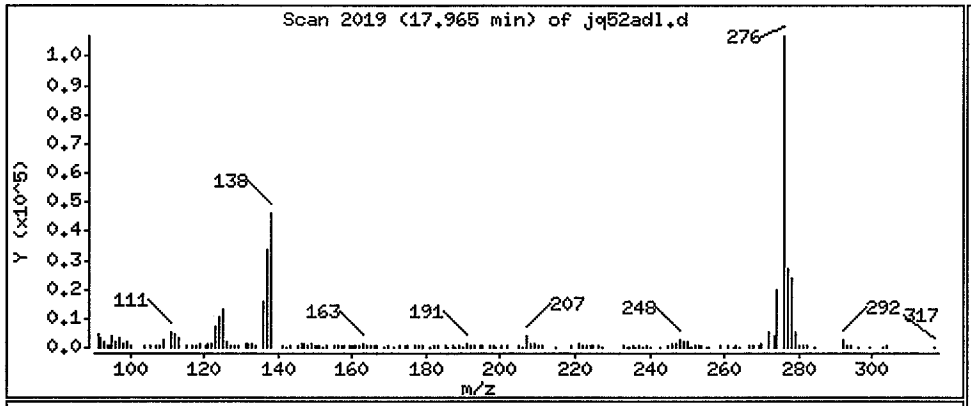
Operator: VTS

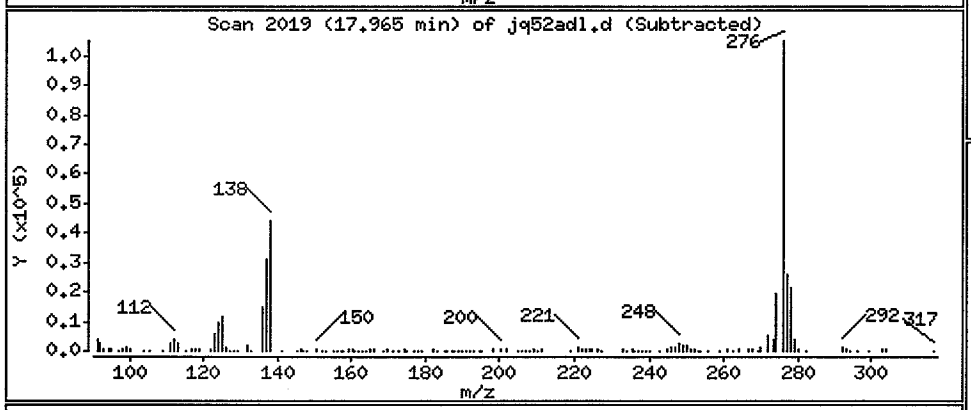
Column phase: ZB-5

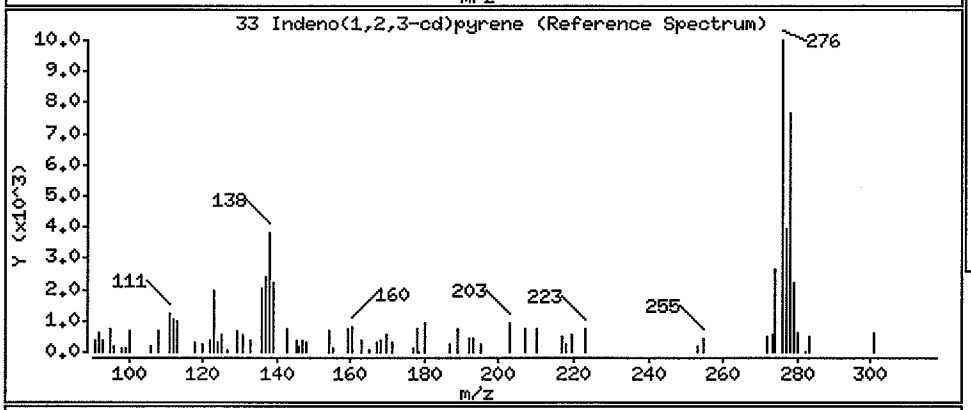
Column diameter: 0.25

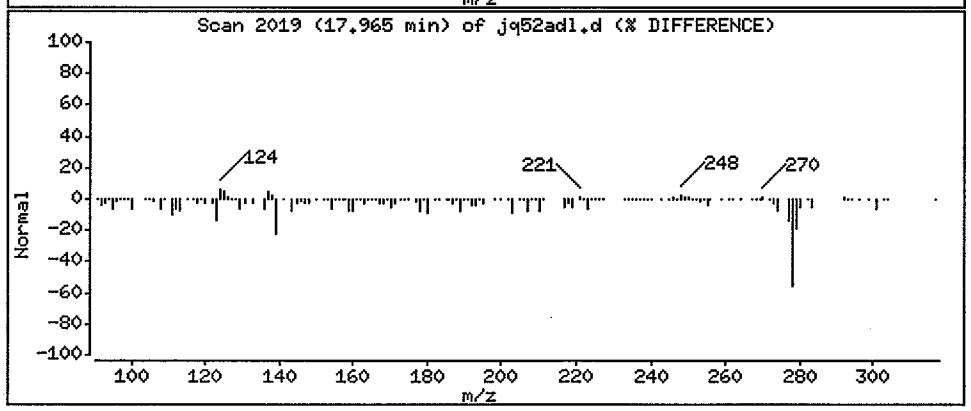
33 Indeno(1,2,3-cd)pyrene

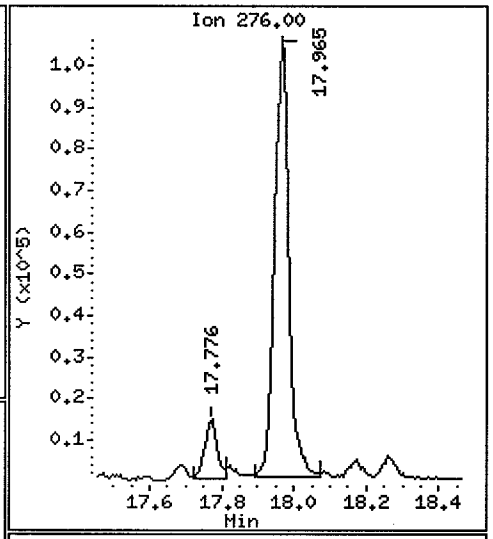
Concentration: 5020 ug/kg

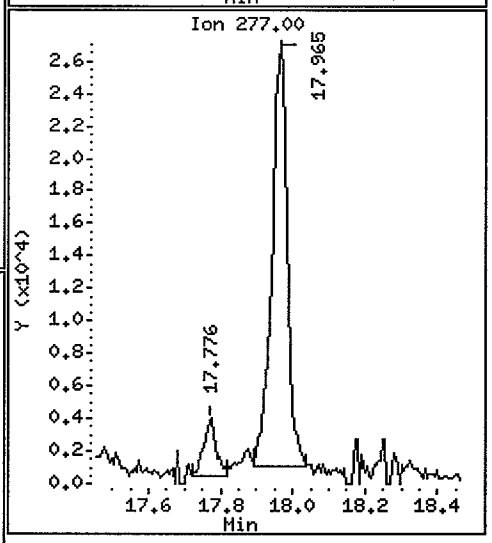












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

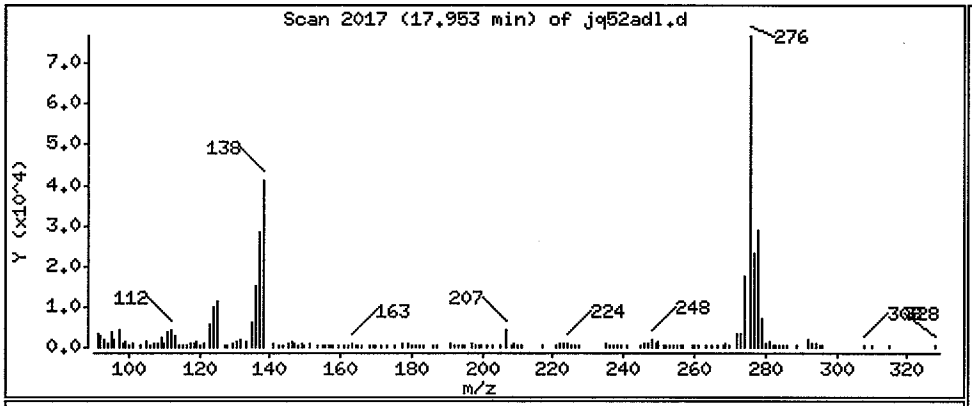
Operator: VTS

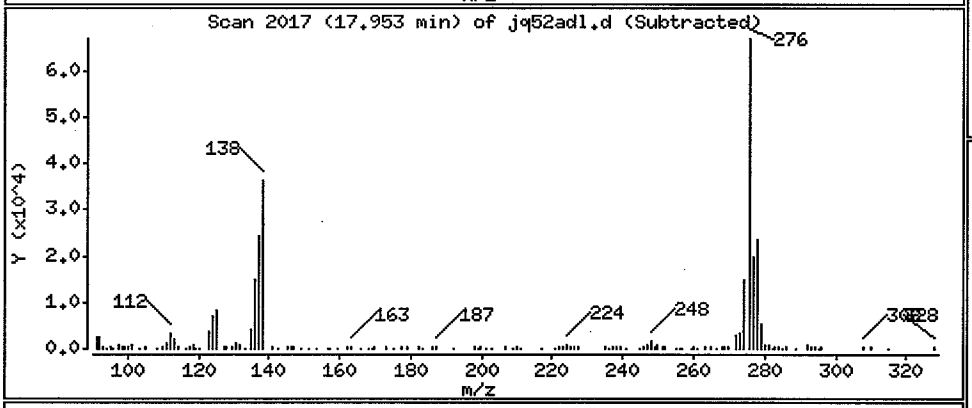
Column phase: ZB-5

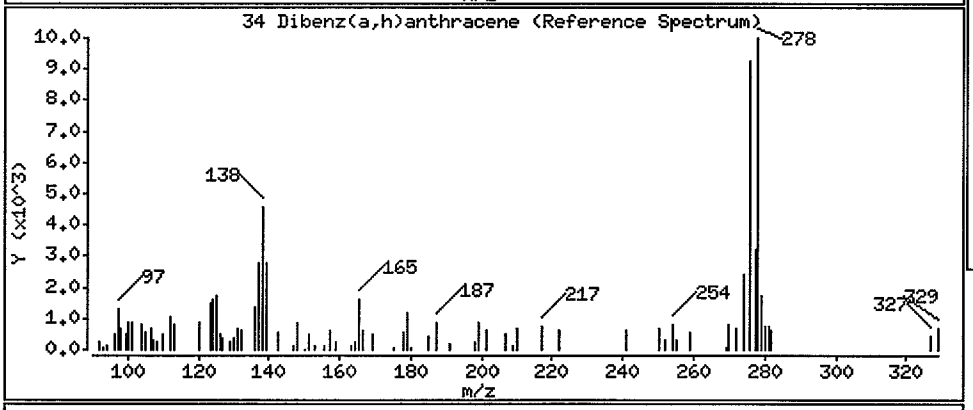
Column diameter: 0.25

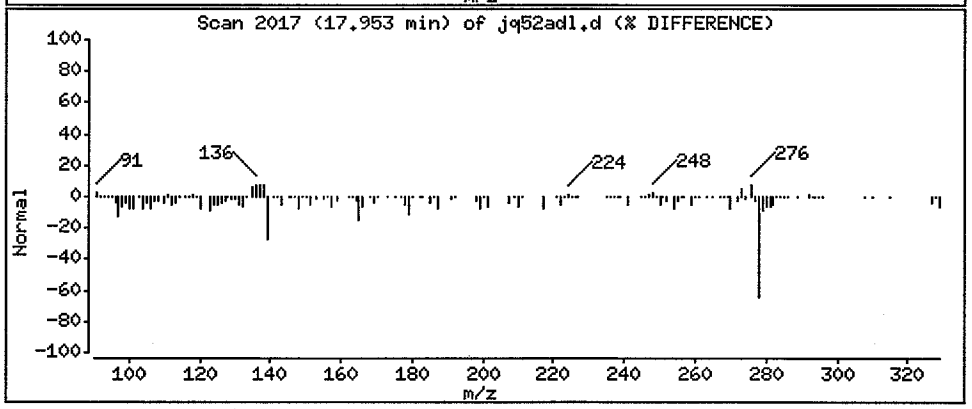
34 Dibenz(a,h)anthracene

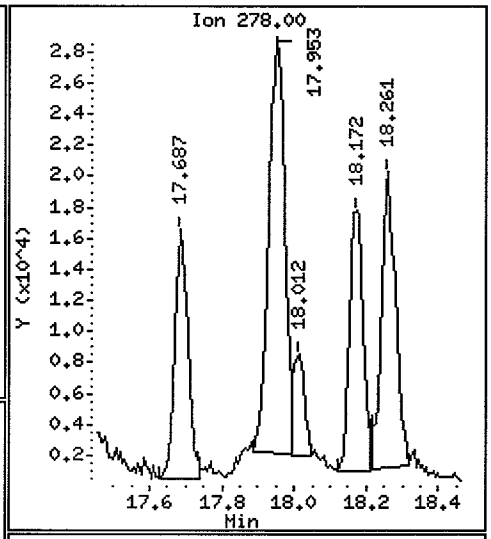
Concentration: 1763 ug/kg

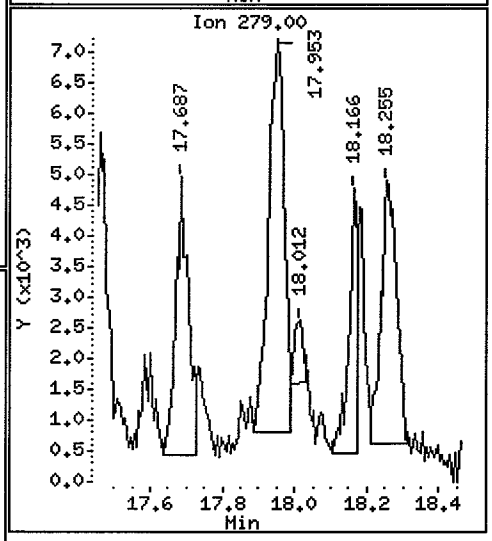












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

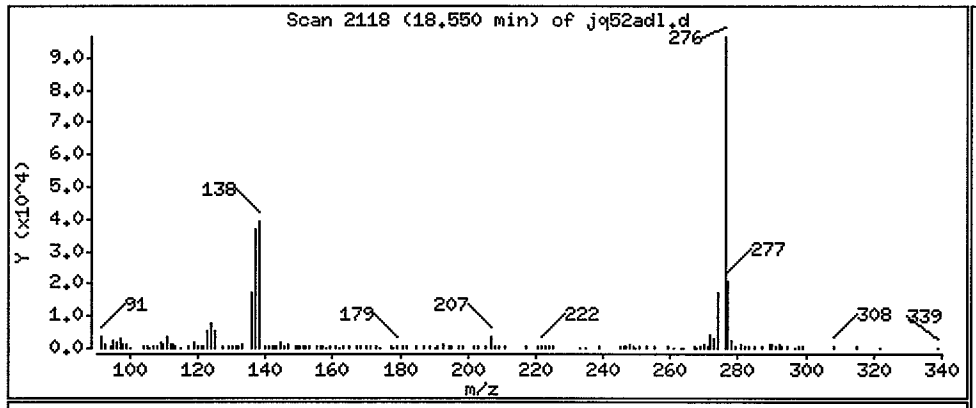
Operator: VTS

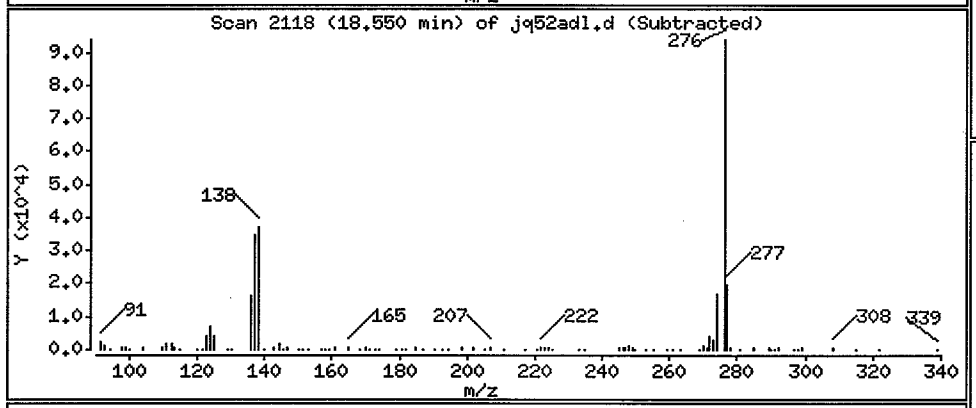
Column phase: ZB-5

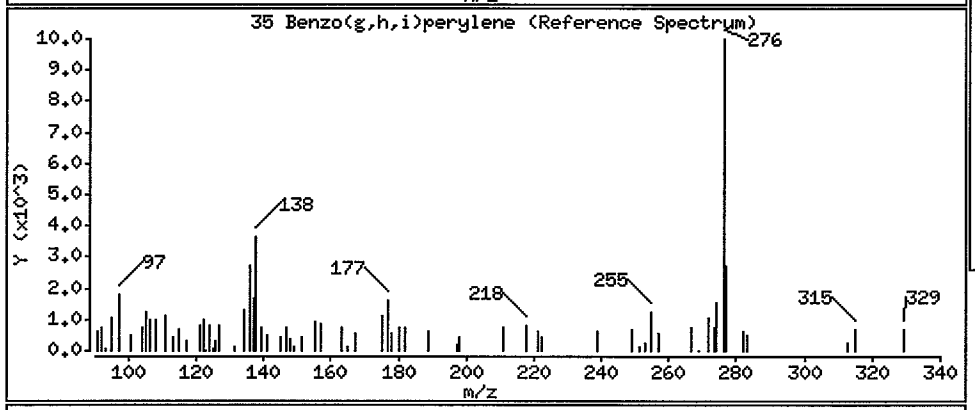
Column diameter: 0.25

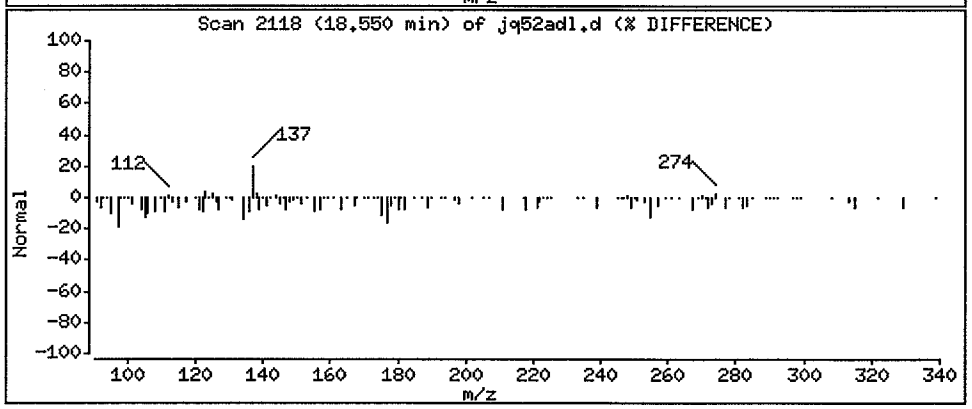
35 Benzo(g,h,i)perylene

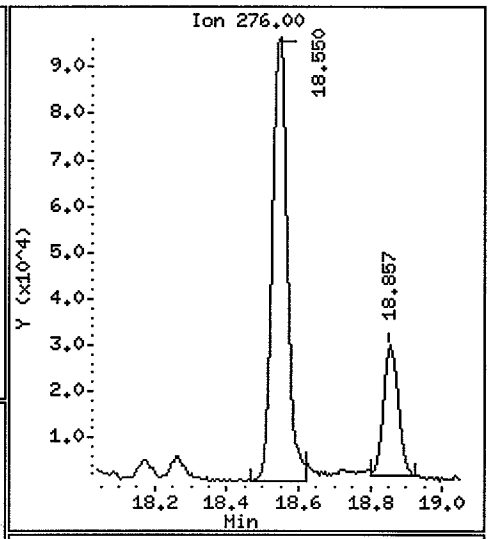
Concentration: 5785 ug/kg

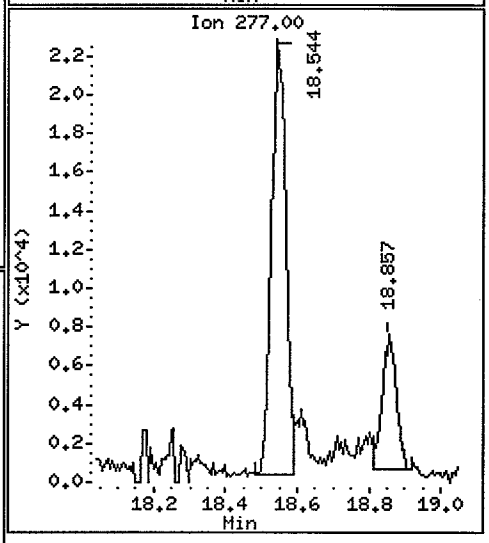












Data File: /chem3/nt1.i/20060809.b/jq52adl.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

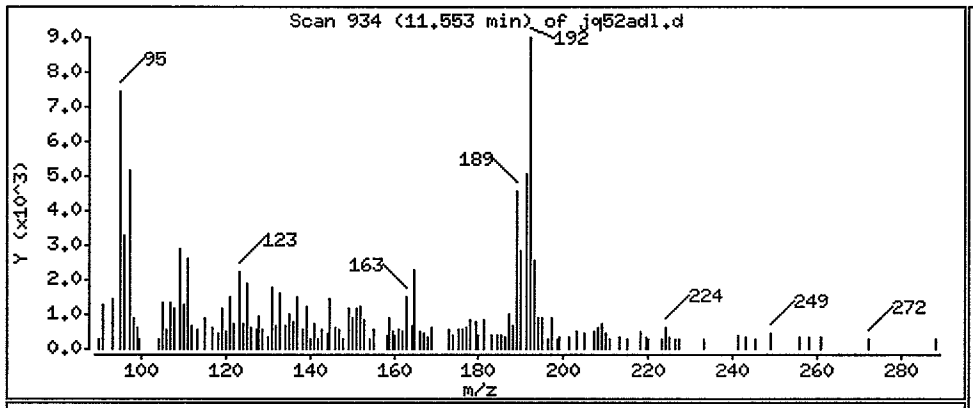
Operator: VTS

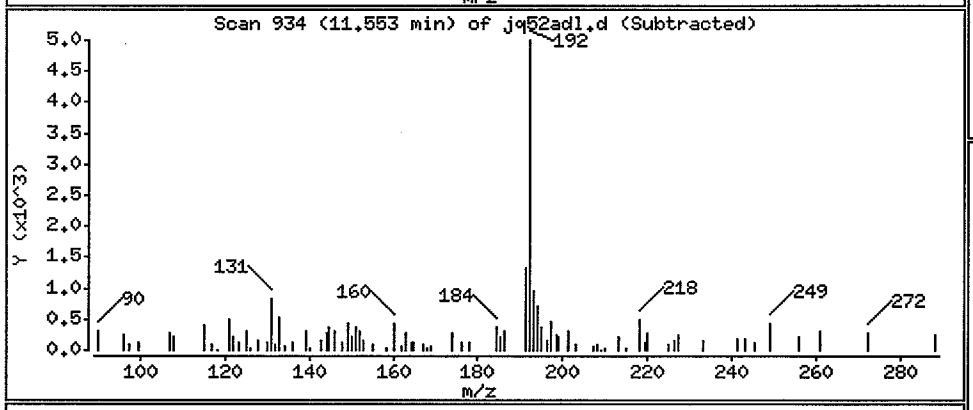
Column phase: ZB-5

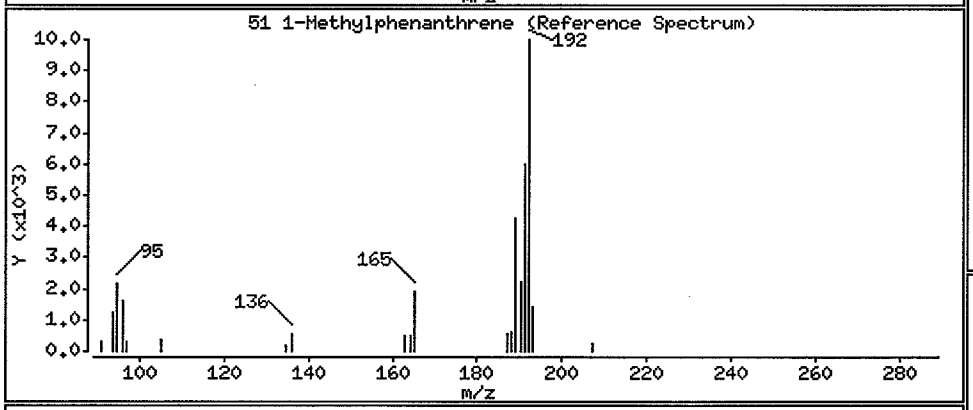
Column diameter: 0.25

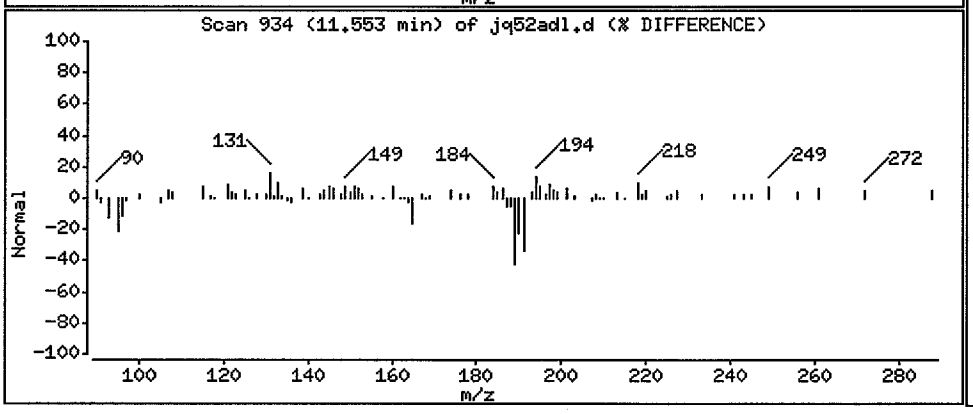
51 1-Methylphenanthrene

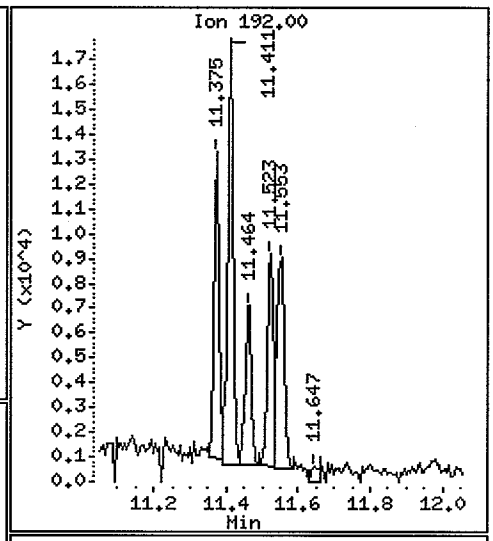
Concentration: 379.8 ug/kg

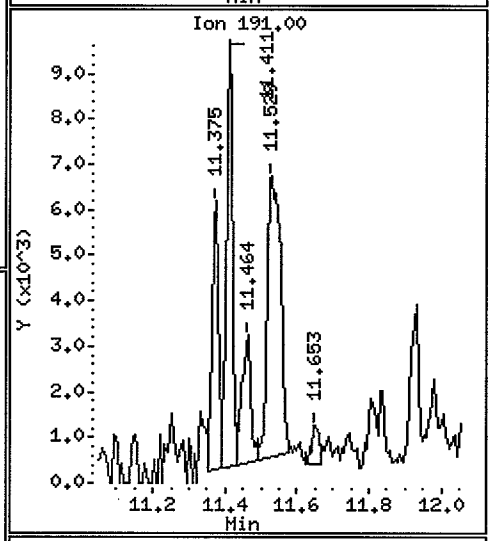


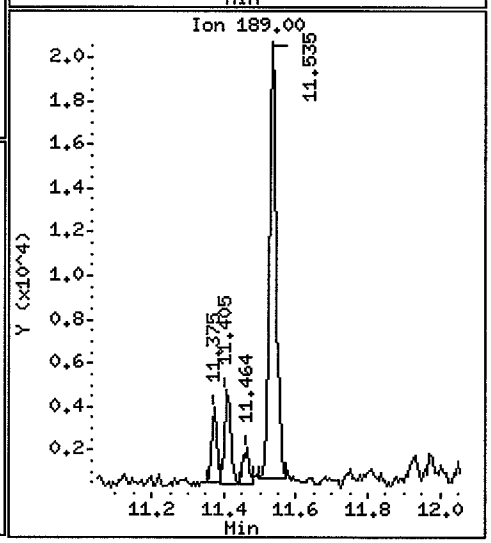












Data File: /chem3/nt1.i/20060809.b/jq52adl.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

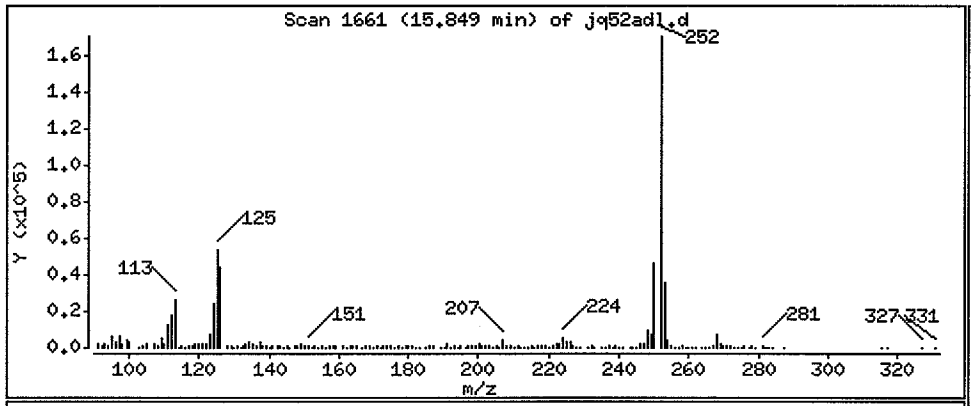
Operator: VTS

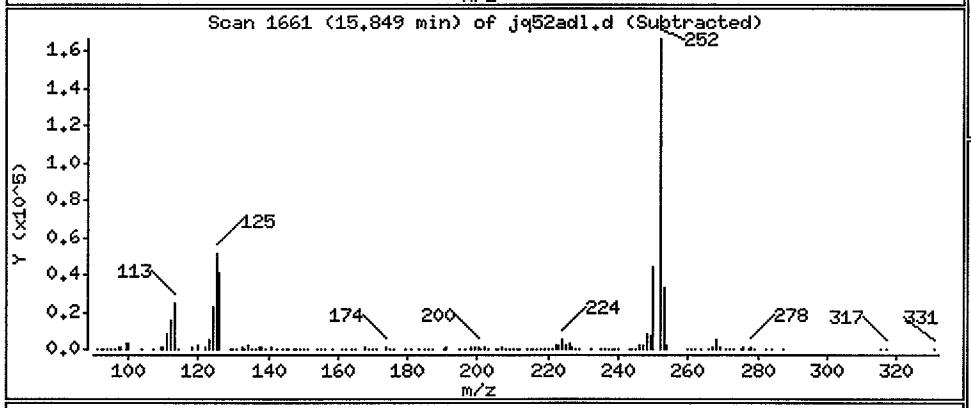
Column phase: ZB-5

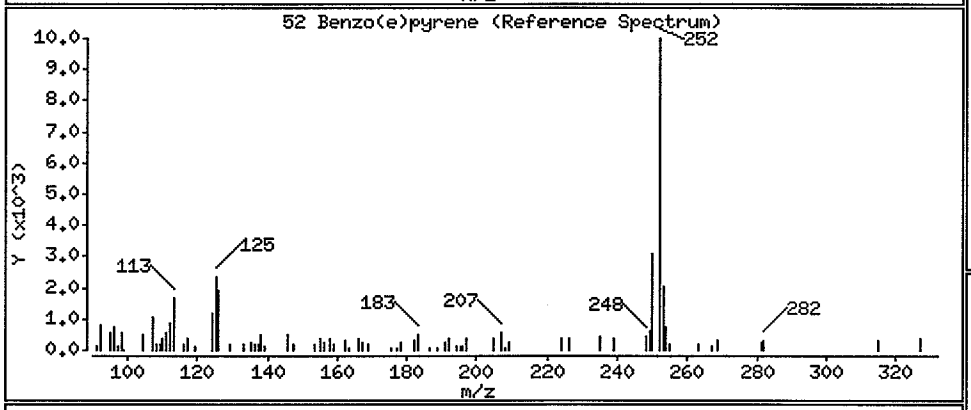
Column diameter: 0.25

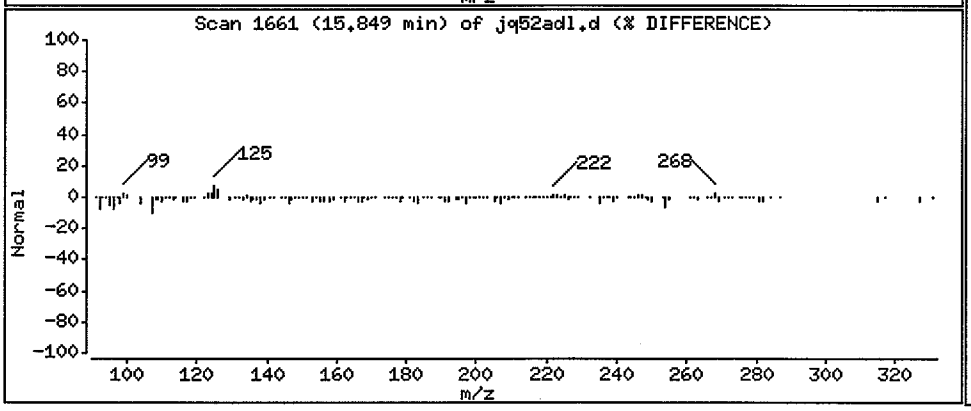
52 Benzo(e)pyrene

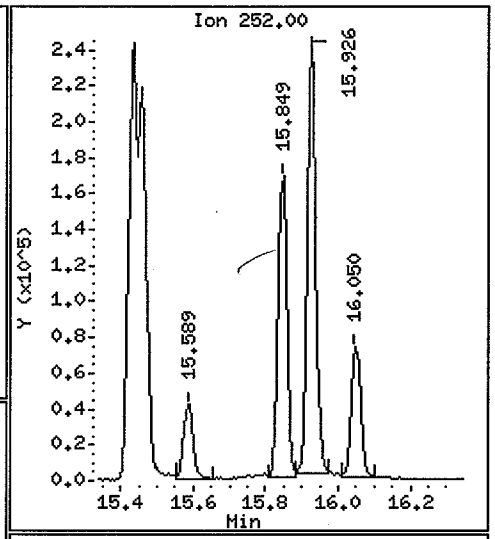
Concentration: 4920 ug/kg

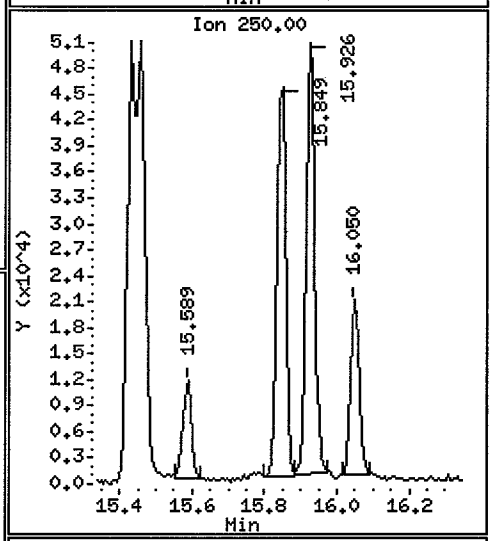


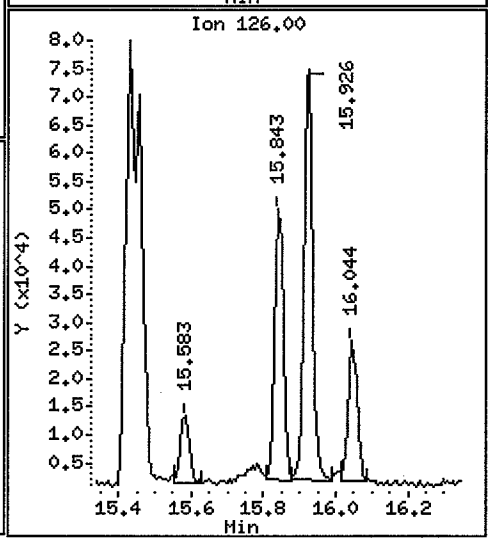












Data File: /chem3/nt1.i/20060809.b/jq52ad1.d

Date : 09-AUG-2006 16:00

Client ID: T4-S3-02-F-DUP

Instrument: nt1.i

Sample Info: JQ52A

Volume Injected (uL): 1.0

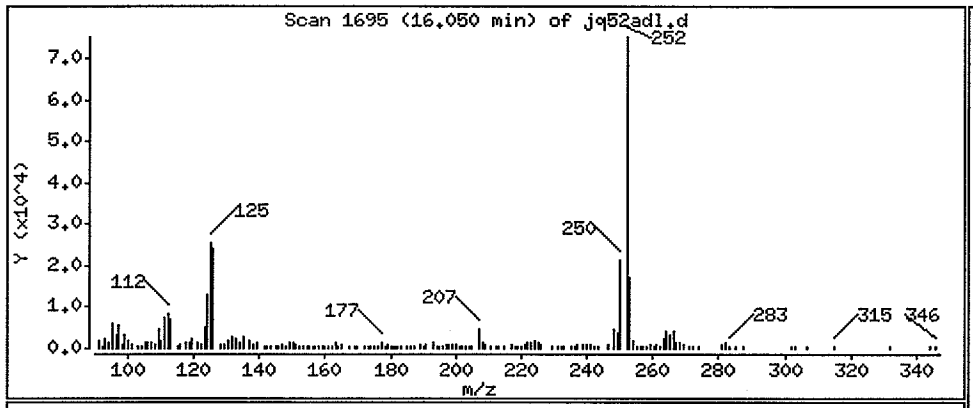
Operator: VTS

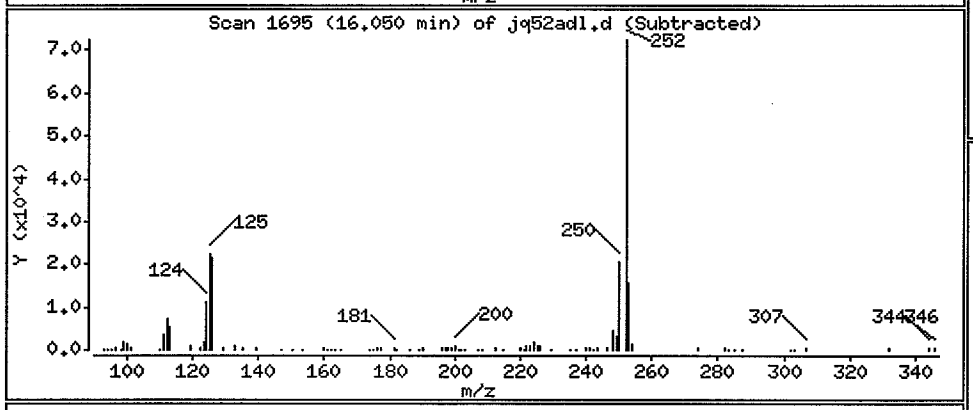
Column phase: ZB-5

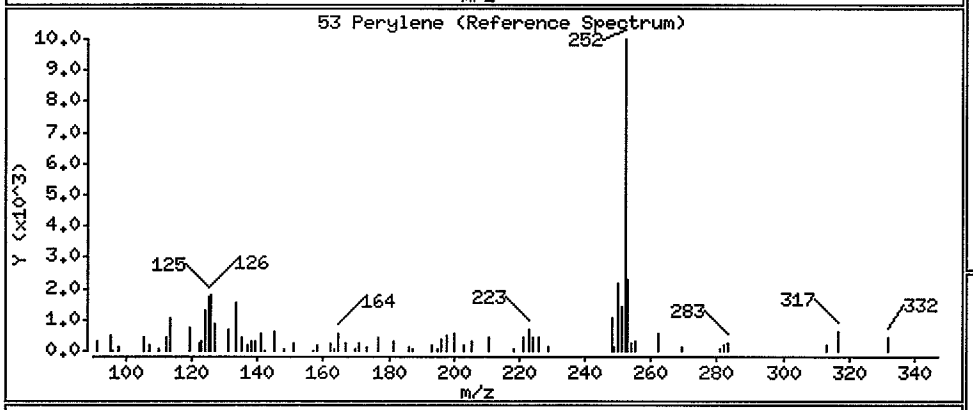
Column diameter: 0.25

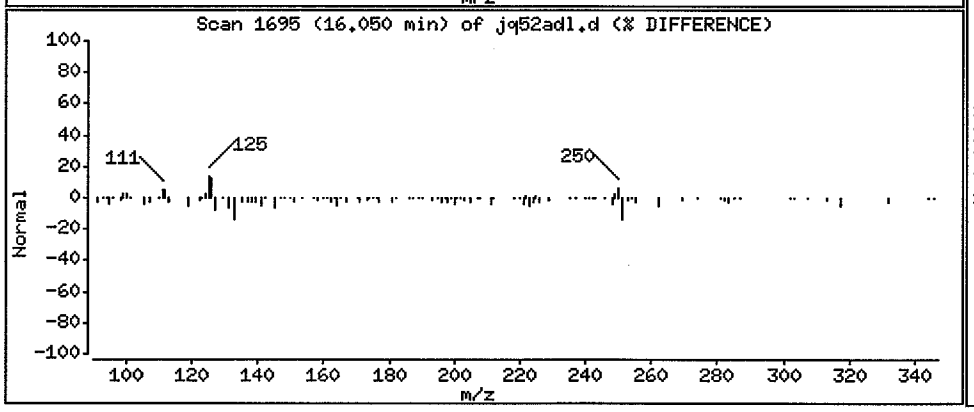
53 Perylene

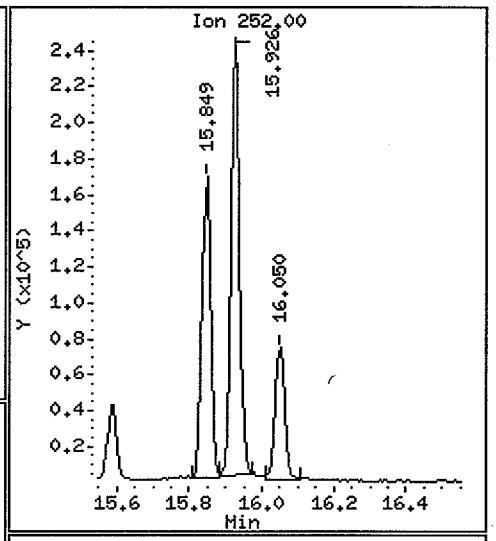
Concentration: 2486 ug/kg

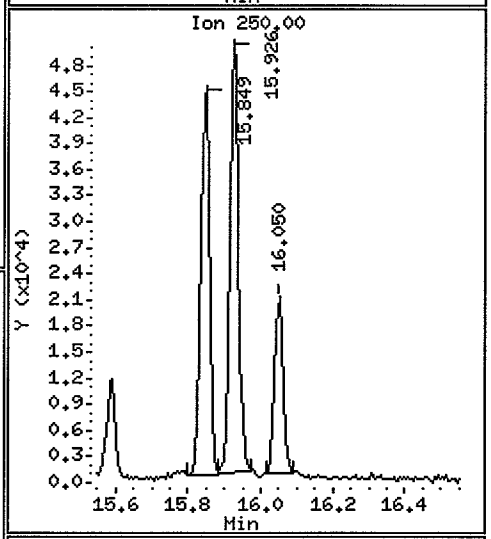


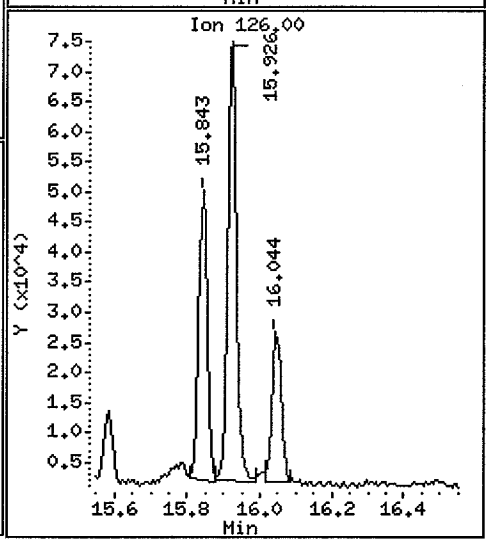












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-03-C-DUP
SAMPLE

Lab Sample ID: JQ52B
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 13:11
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 41.8%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	49	98
91-57-6	2-Methylnaphthalene	49	49
90-12-0	1-Methylnaphthalene	49	24 J
208-96-8	Acenaphthylene	49	44 J
83-32-9	Acenaphthene	49	210
86-73-7	Fluorene	49	130
85-01-8	Phenanthrene	49	760
120-12-7	Anthracene	49	150
206-44-0	Fluoranthene	49	1,600
129-00-0	Pyrene	49	1,600
56-55-3	Benzo(a)anthracene	49	710
218-01-9	Chrysene	49	960
205-99-2	Benzo(b)fluoranthene	49	880
207-08-9	Benzo(k)fluoranthene	49	740
50-32-8	Benzo(a)pyrene	49	910
193-39-5	Indeno(1,2,3-cd)pyrene	49	550
53-70-3	Dibenz(a,h)anthracene	49	170
191-24-2	Benzo(g,h,i)perylene	49	690
198-55-0	Perylene	49	440
92-52-4	Biphenyl	49	< 49 U
581-42-0	2,6-Dimethylnaphthalene	49	< 49 U
832-69-9	1-Methylphenanthrene	110	< 110 Y
192-97-2	Benzo(e)pyrene	49	560
2245-38-7	2,3,5-Trimethylnaphthalene	49	64

Reported in μg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.7%
d14-Dibenzo(a,h)anthracen	66.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060808.b/jq52b10.d
Lab Smp Id: JQ52B Client Smp ID: T4-S3-03-C-DUP
Inj Date : 08-AUG-2006 13:11
Operator : VTS Inst ID: nt1.i
Smp Info : JQ52B,10
Misc Info : 06-13103
Comment : 1ul Injection
Method : /chem3/nt1.i/20060808.b/simpna.m
Meth Date : 09-Aug-2006 11:00 yev 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	17.50000	Weight of sample extracted (g)
M	41.80000	% 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	6.882	6.884	(1.000)	294830	2.00000	
2 Naphthalene	128	6.905	6.907	(1.003)	29996	0.20397	100.1
$ 3 2-Methylnaphthalene-d10	152	7.638	7.640	(1.110)	14723	0.19388	95.18
4 2-Methylnaphthalene	142	7.674	7.676	(1.115)	8501	0.09761	47.92 J
5 1-Methylnaphthalene	142	7.810	7.806	(1.135)	4830	0.05287	25.96 J
7 Acenaphthylene	152	8.767	8.763	(0.980)	11609	0.09006	44.21 J
* 8 Acenaphthene-d10	164	8.944	8.946	(1.000)	155476	2.00000	
9 Acenaphthene	153	8.986	8.982	(1.005)	31928	0.41823	205.3
10 Dibenzofuran	168	9.175	9.171	(1.026)	10128	0.09007	44.22 J
11 Fluorene	166	9.594	9.596	(1.073)	23363	0.26688	131.0
* 15 Phenanthrene-d10	188	10.759	10.755	(1.000)	252000	2.00000	
16 Phenanthrene	178	10.788	10.784	(1.003)	198693	1.53612	754.1
17 Anthracene	178	10.842	10.843	(1.008)	38650	0.29901	146.8
19 Fluoranthene	202	12.284	12.280	(1.142)	427967	3.24386	1592

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
20 Pyrene	202	12.573	12.569	(0.893)	472915	3.36059	1650
22 Benzo(a)anthracene	228	14.051	14.047	(0.998)	190074	1.44028	707.1
* 23 Chrysene-d12	240	14.074	14.070	(1.000)	219152	2.00000	
24 Chrysene	228	14.104	14.100	(1.002)	238679	1.96083	962.6
28 Benzo(b)fluoranthene	252	15.445	15.441	(0.964)	238971	1.79999	883.6
29 Benzo(k)fluoranthene	252	15.475	15.477	(0.965)	215355	1.52154	747.0
30 Benzo(a)pyrene	252	15.942	15.938	(0.994)	238781	1.84581	906.1
* 31 Perylene-d12	264	16.031	16.021	(1.000)	235237	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.993	17.989	(1.122)	166729	1.12073	550.2
$ 32 Dibenz(a,h)anthrancene-d14	292	17.916	17.912	(1.118)	17829	0.19805	97.22
34 Dibenz(a,h)anthracene	278	17.975	17.977	(1.121)	41460	0.34114	167.5
35 Benzo(g,h,i)perylene	276	18.578	18.568	(1.159)	174884	1.41418	694.2
48 Biphenyl	154	Compound Not Detected.					
49 2,6-Dimethylnaphthalene	156	8.407	8.408	(0.940)	6725	0.08889	43.64 J
50 2,3,5-Trimethylnaphthalene	170	9.429	9.431	(1.054)	7793	0.12575	61.73
51 1-Methylphenanthrene	192	11.563	11.559	(0.822)	20076	0.22380	109.9(M) Y
52 Benzo(e)pyrene	252	15.865	15.861	(0.990)	165133	1.15320	566.1
53 Perylene	252	16.066	16.068	(1.002)	119852	0.89142	437.6

QC Flag Legend

M - Compound response manually integrated.

VTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq52b10.d
Lab Smp Id: JQ52B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13103

Calibration Date: 08-AUG-2006
Calibration Time: 09:27
Client Smp ID: T4-S3-03-C-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	260380	130190	520760	294830	13.23
8 Acenaphthene-d10	135690	67845	271380	155476	14.58
15 Phenanthrene-d10	210931	105466	421862	252000	19.47
23 Chrysene-d12	190595	95298	381190	219152	14.98
31 Perylene-d12	193807	96904	387614	235237	21.38

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	8.95	8.45	9.45	8.94	-0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.76	0.04
23 Chrysene-d12	14.07	13.57	14.57	14.07	0.03
31 Perylene-d12	16.02	15.52	16.52	16.03	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

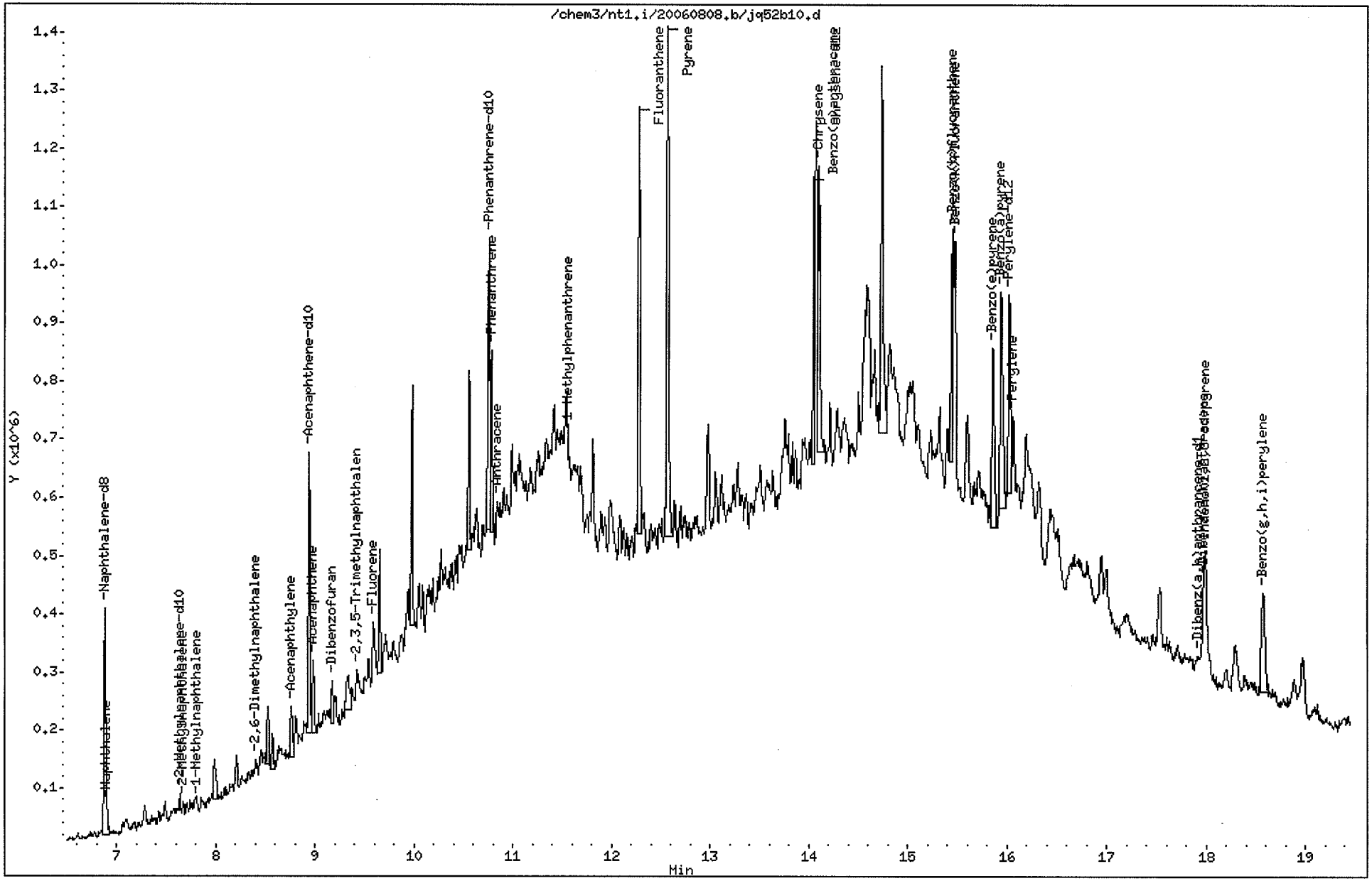
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52B
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13103

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-03-C-DUP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.3	95.18	64.63	32-97
$ 32 Dibenz(a,h)anthran	147.3	97.22	66.02	21-105

Data File: /chem3/nt1.i/20060808.b/jq52b10.d
Date : 08-AUG-2006 13:11
Client ID: T4-S3-03-C-DUP
Sample Info: JQ52B,10
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0141

Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

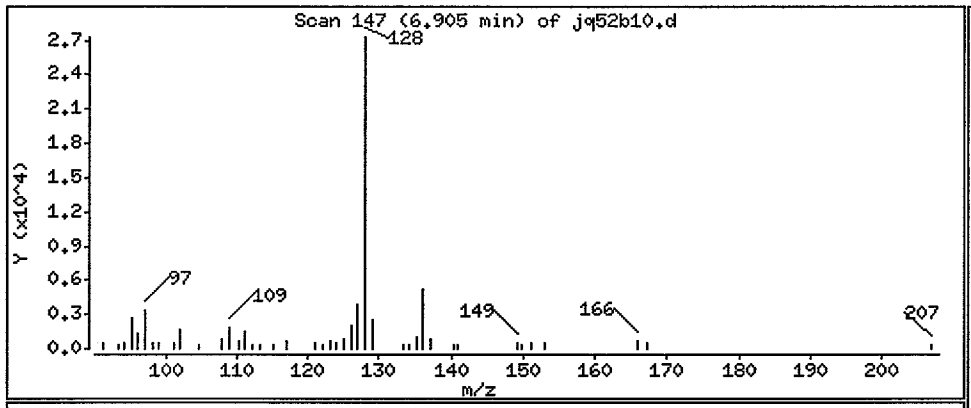
Operator: VTS

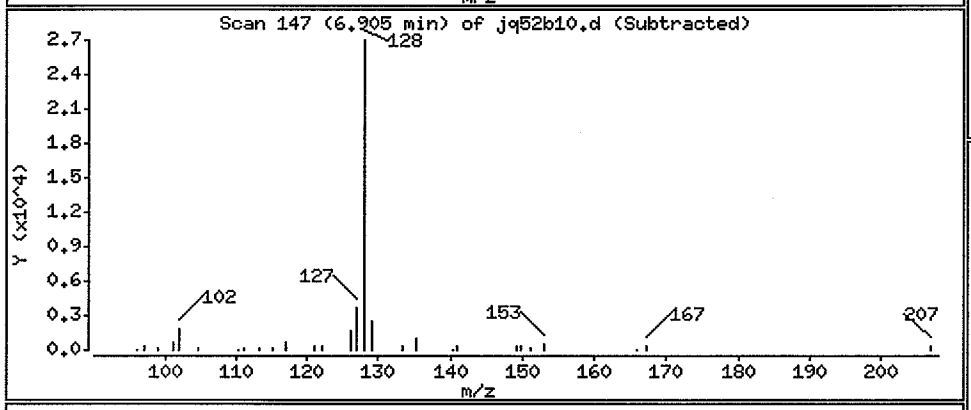
Column phase: ZB-5

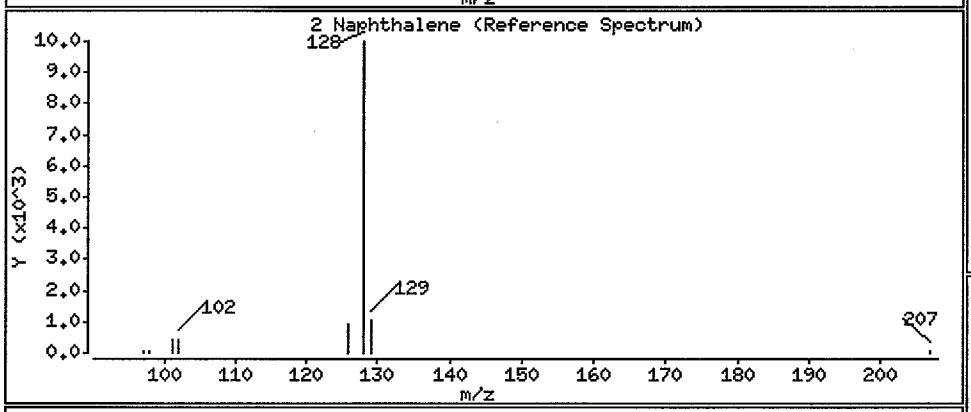
Column diameter: 0.25

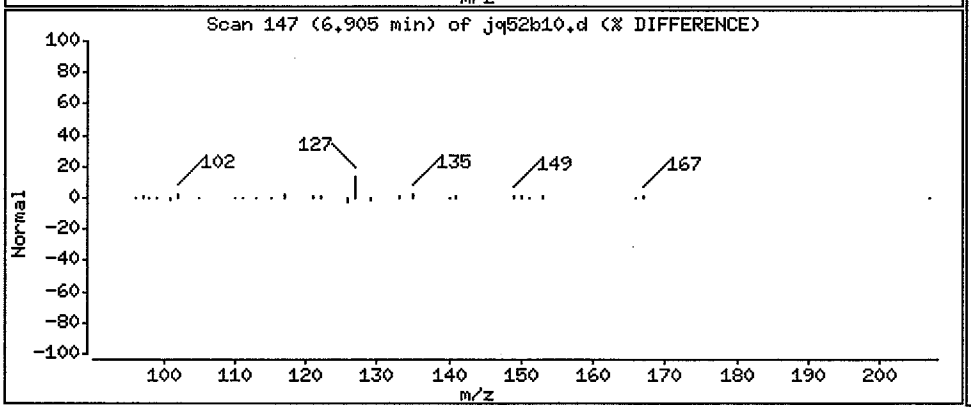
2 Naphthalene

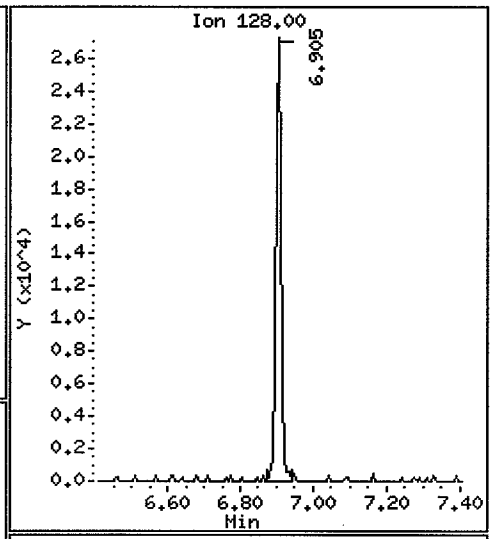
Concentration: 100.1 ug/kg

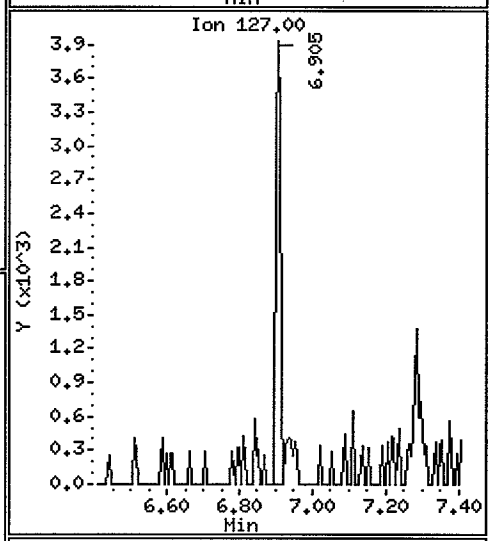


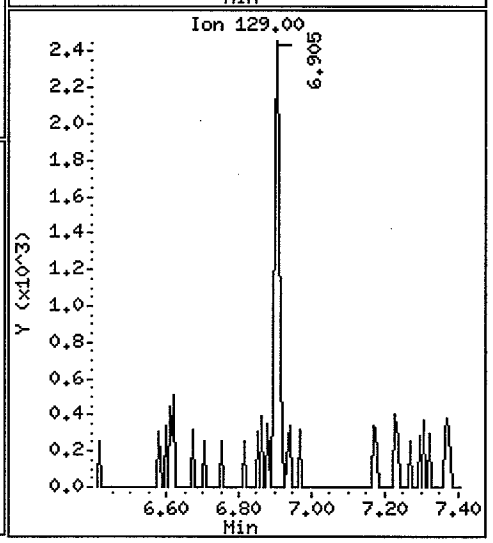












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

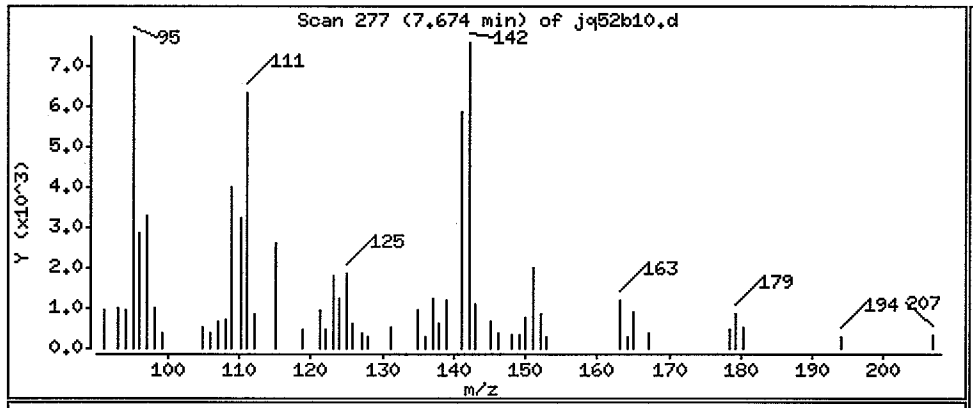
Operator: VTS

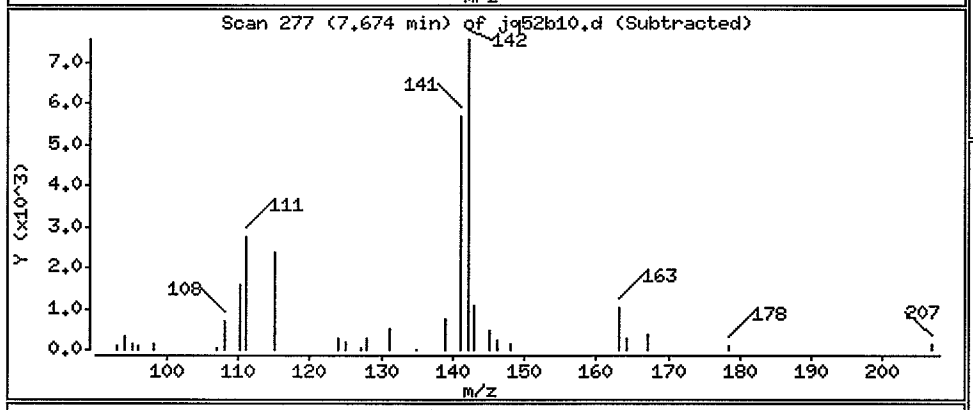
Column phase: ZB-5

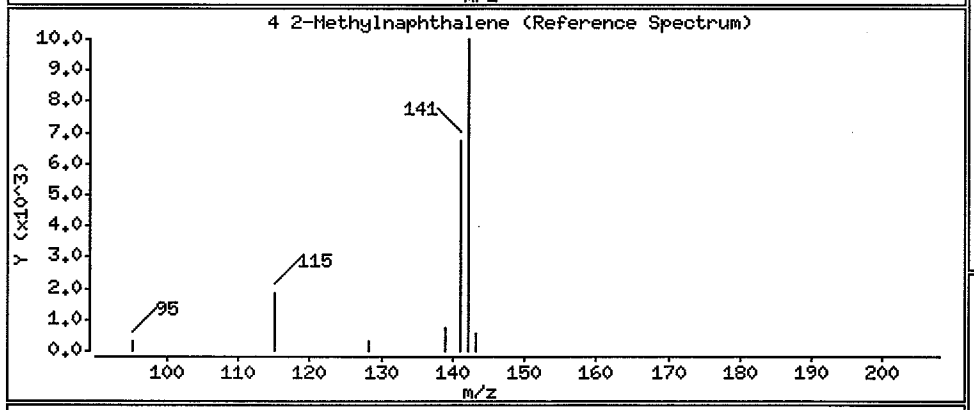
Column diameter: 0.25

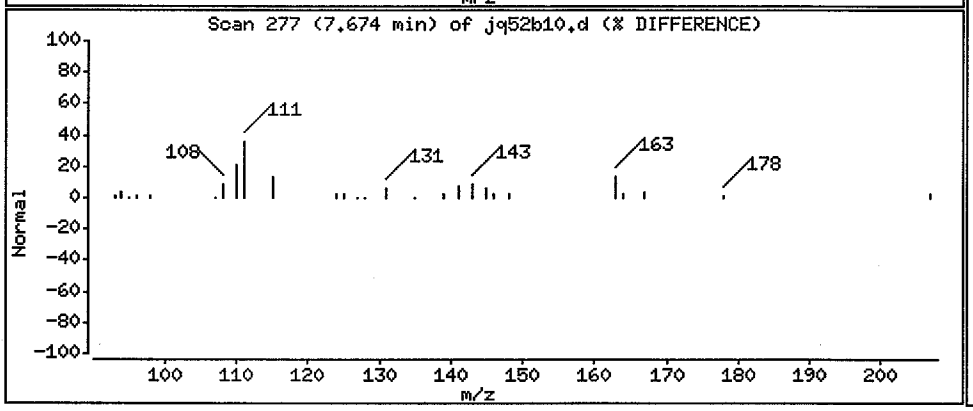
4 2-Methylnaphthalene

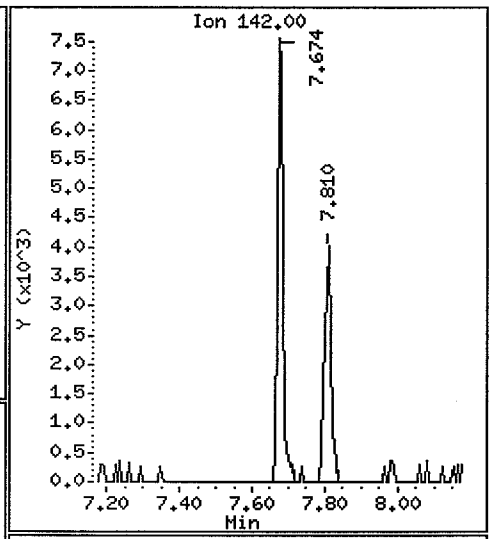
Concentration: 47.92 ug/kg

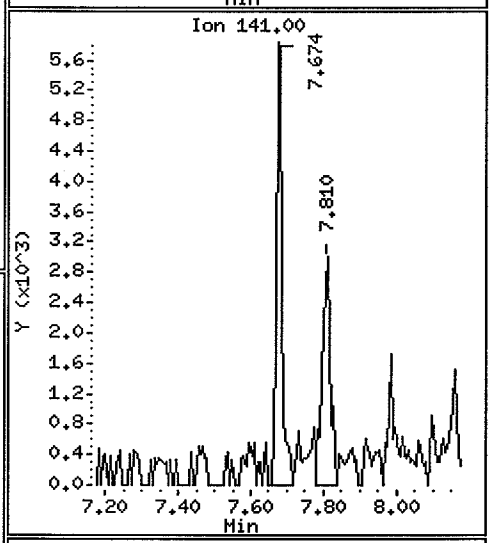


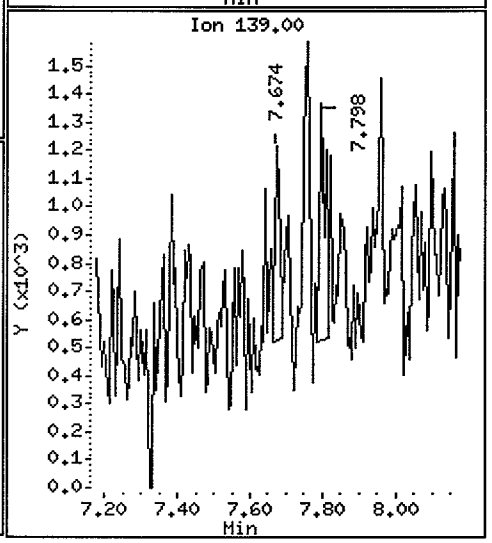












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

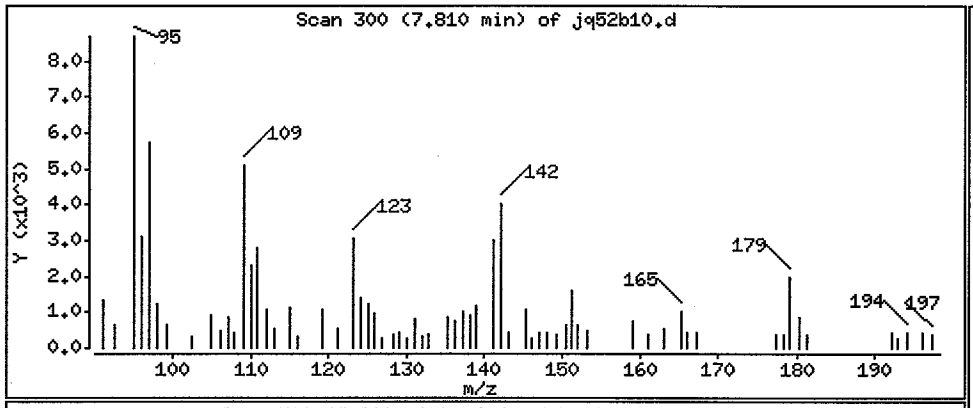
Operator: VTS

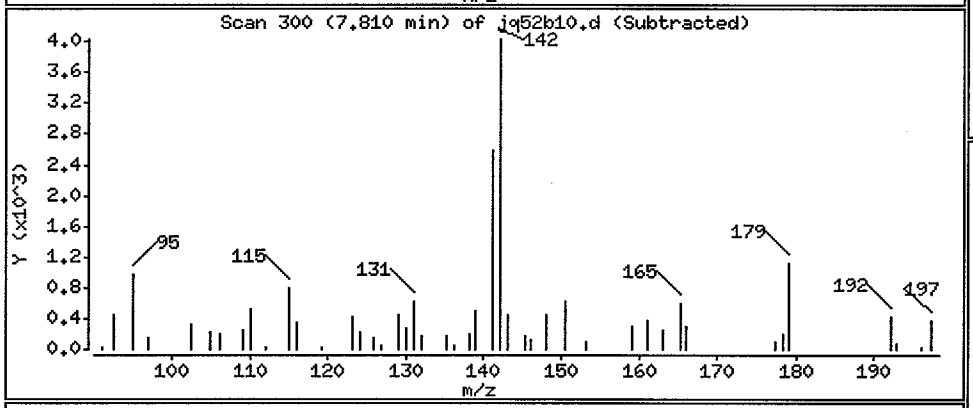
Column phase: ZB-5

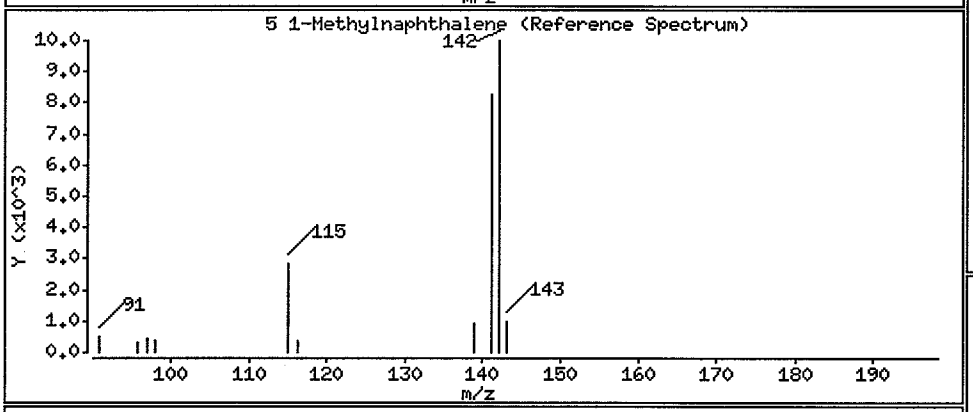
Column diameter: 0.25

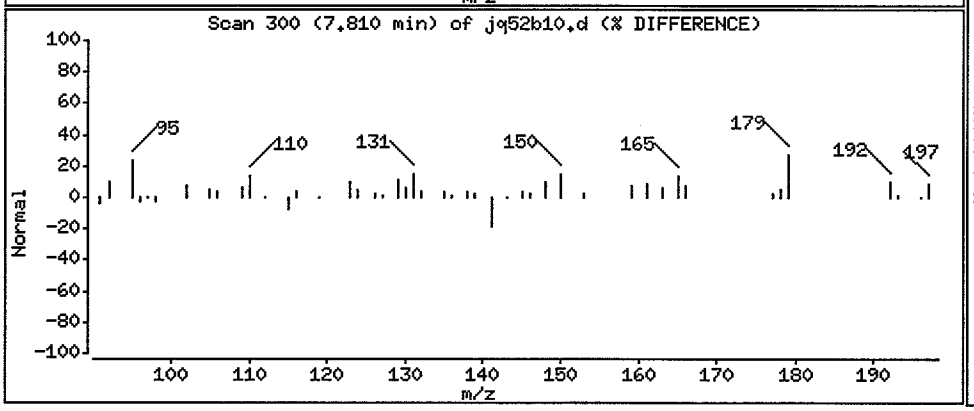
5 1-Methylnaphthalene

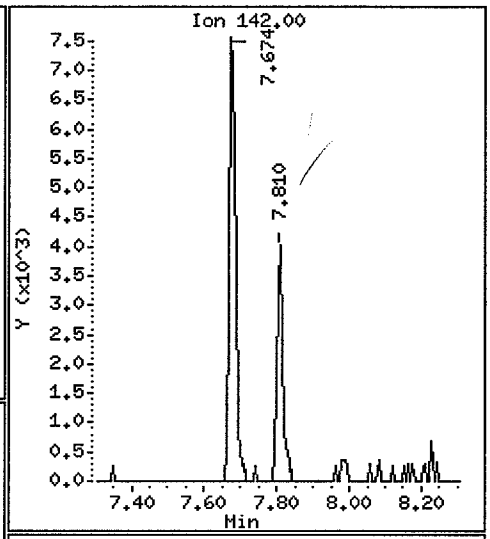
Concentration: 25.96 ug/kg

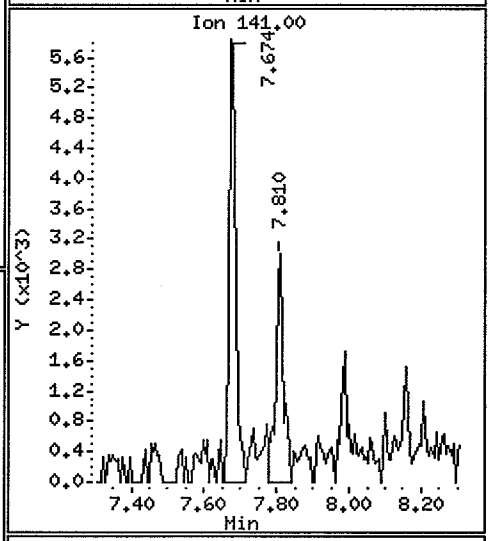


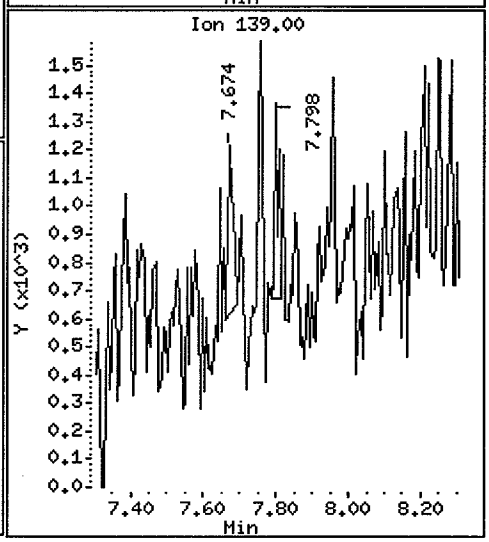












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

Operator: VTS

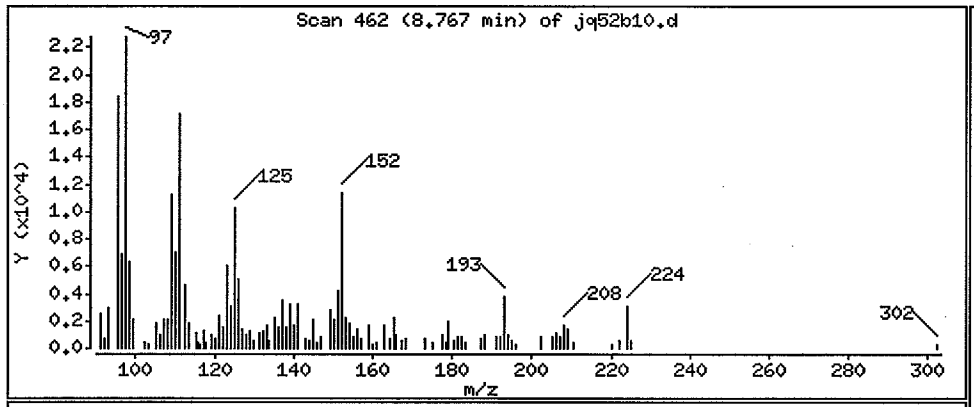
Column phase: ZB-5

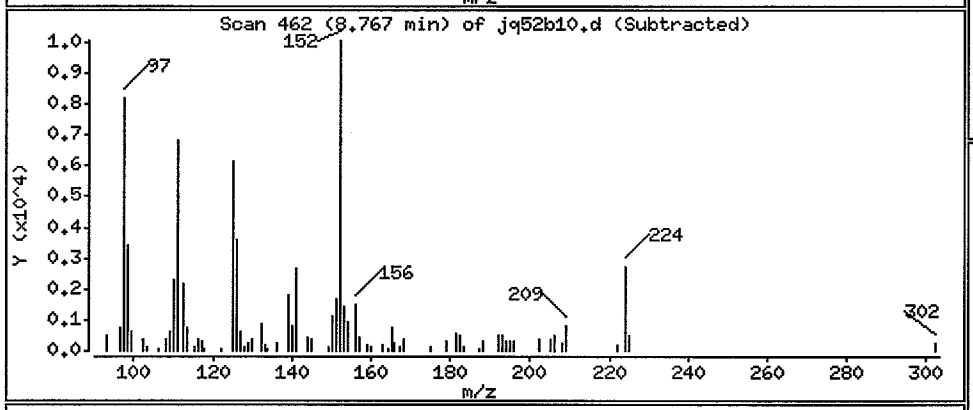
Column diameter: 0.25

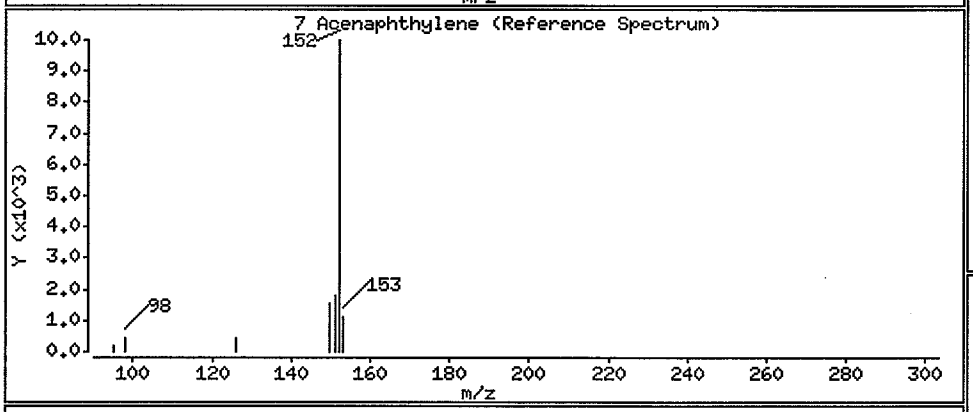
7 Acenaphthylene

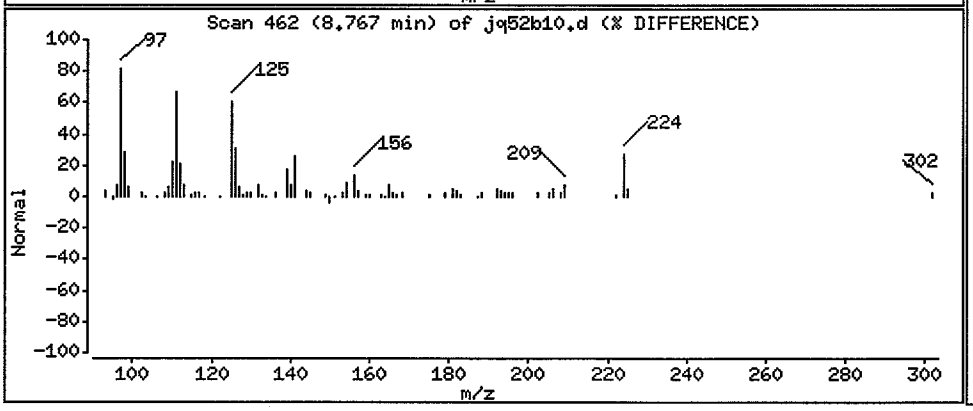
Concentration: 44.21 ug/kg

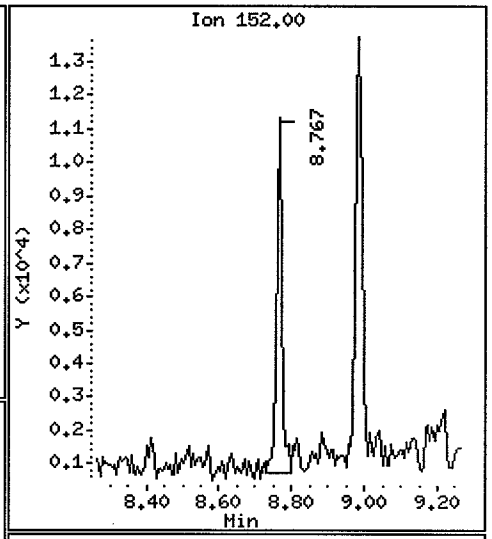
J cpr

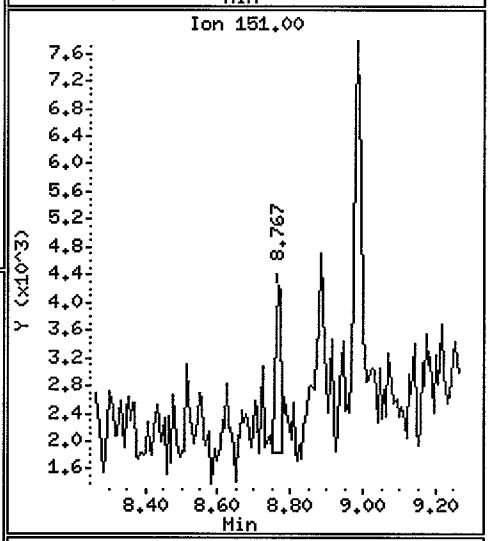


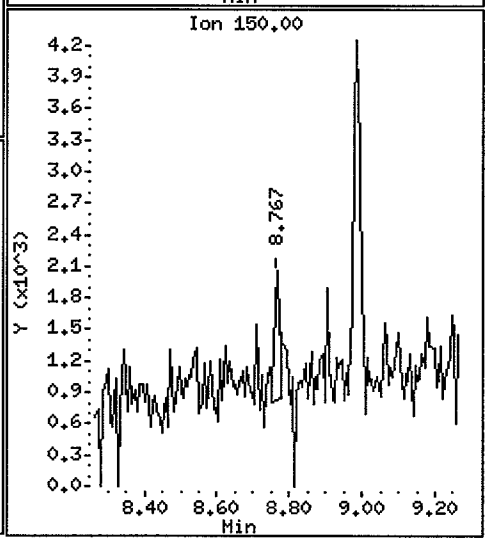












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

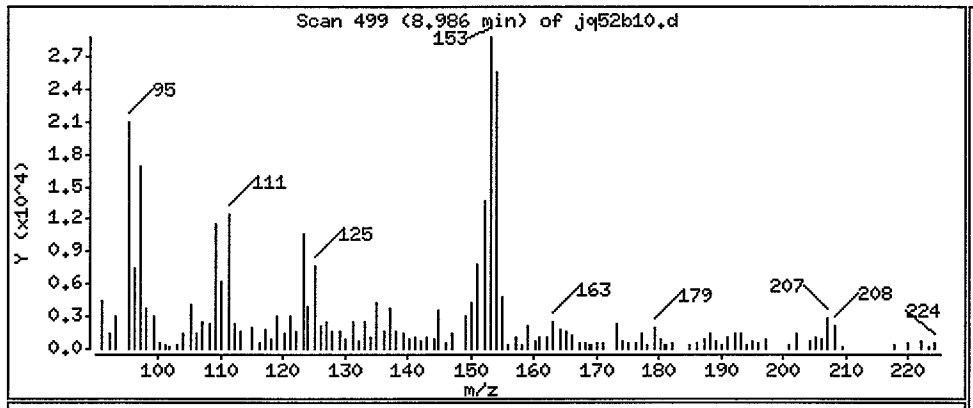
Operator: VTS

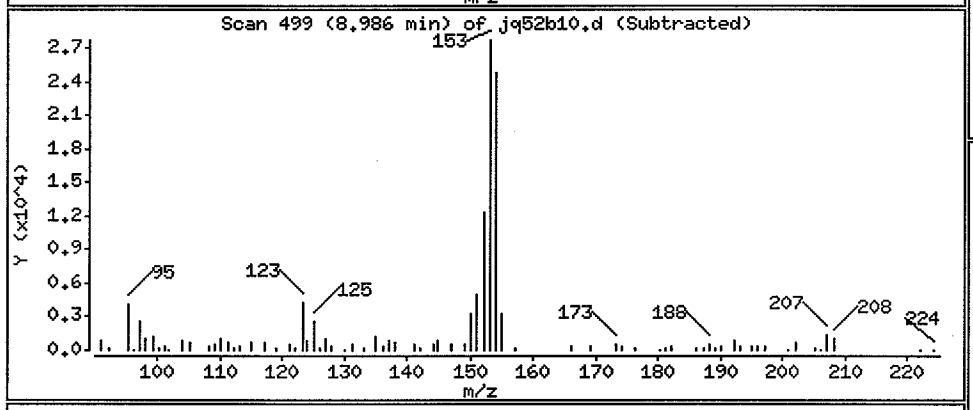
Column phase: ZB-5

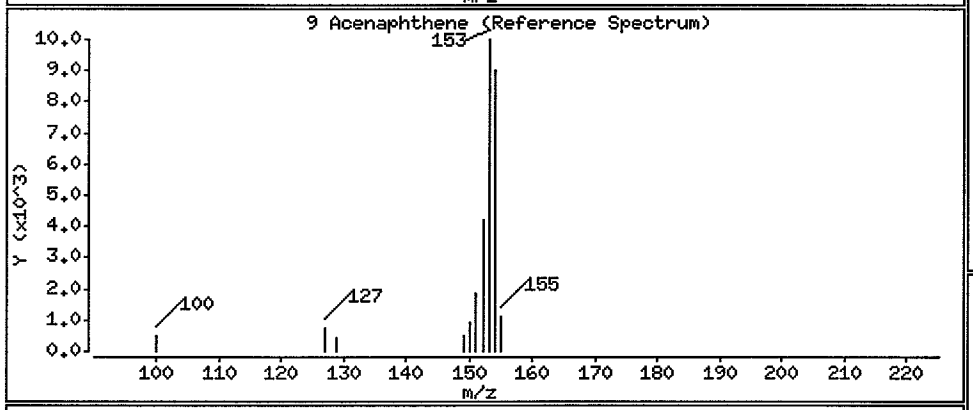
Column diameter: 0.25

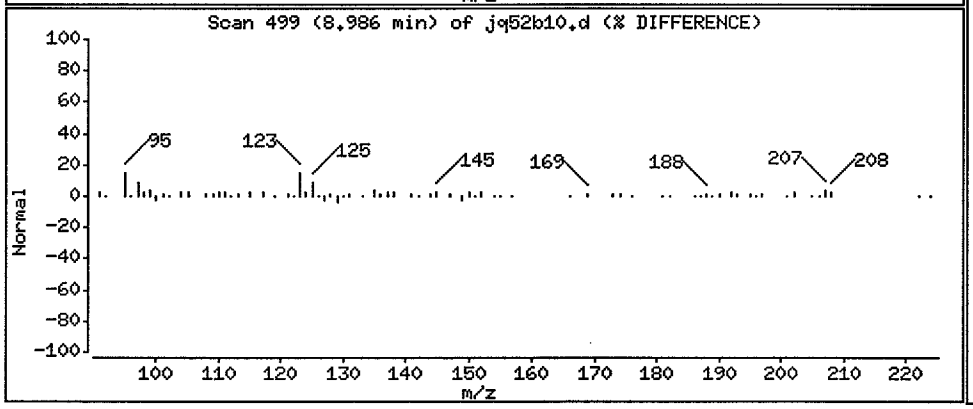
9 Acenaphthene

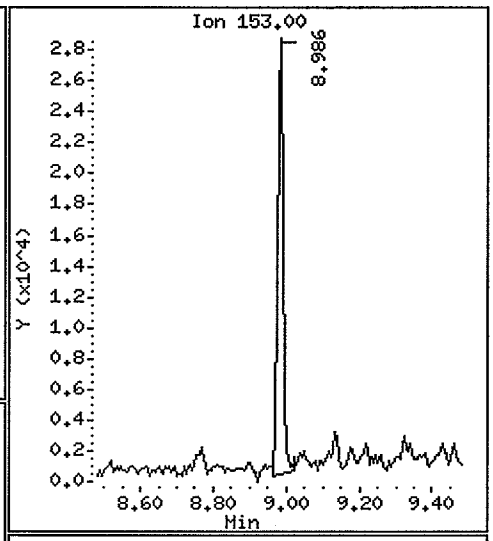
Concentration: 205.3 ug/kg

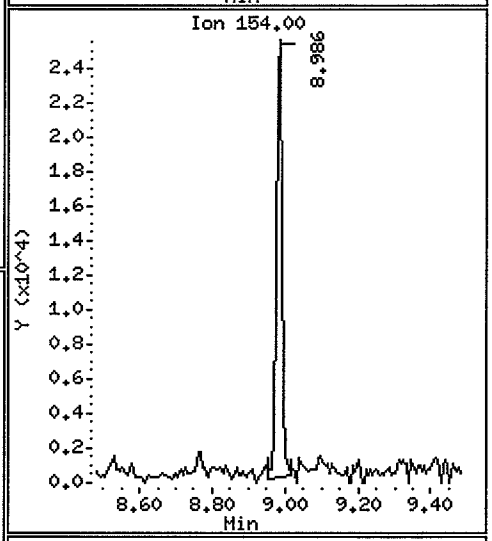


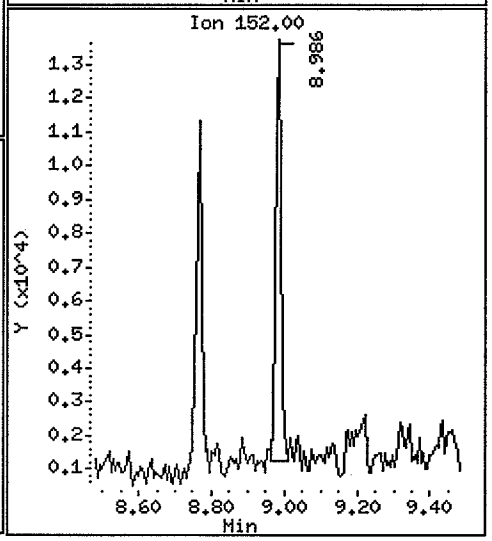












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

Operator: VTS

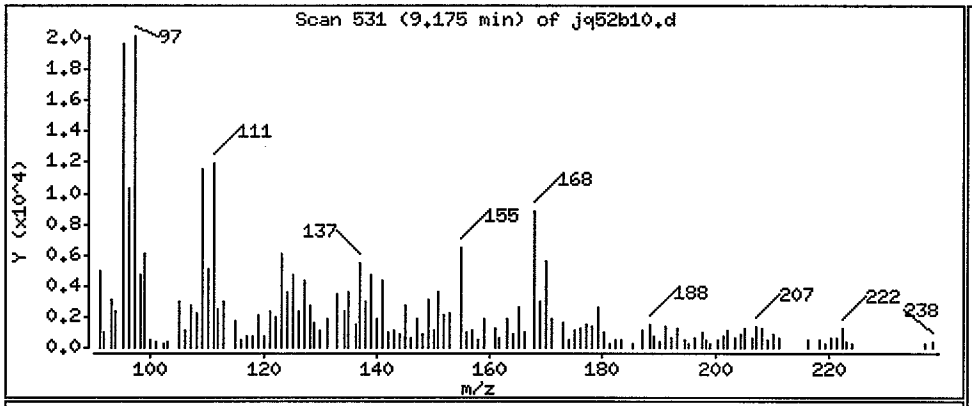
Column phase: ZB-5

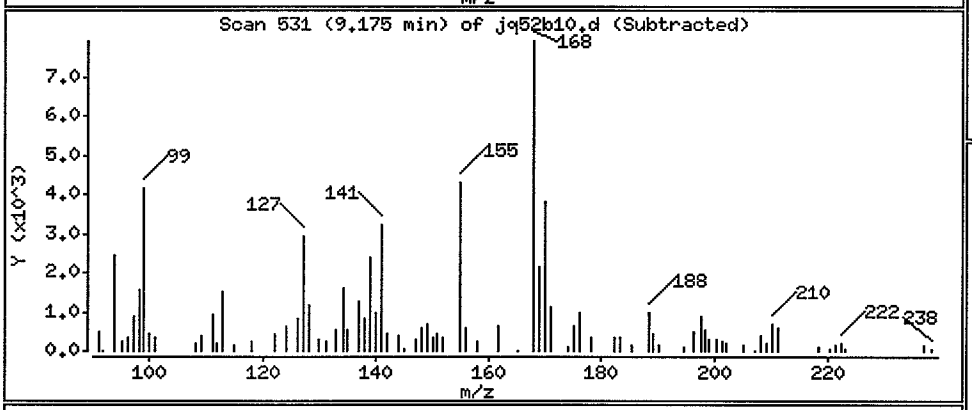
Column diameter: 0.25

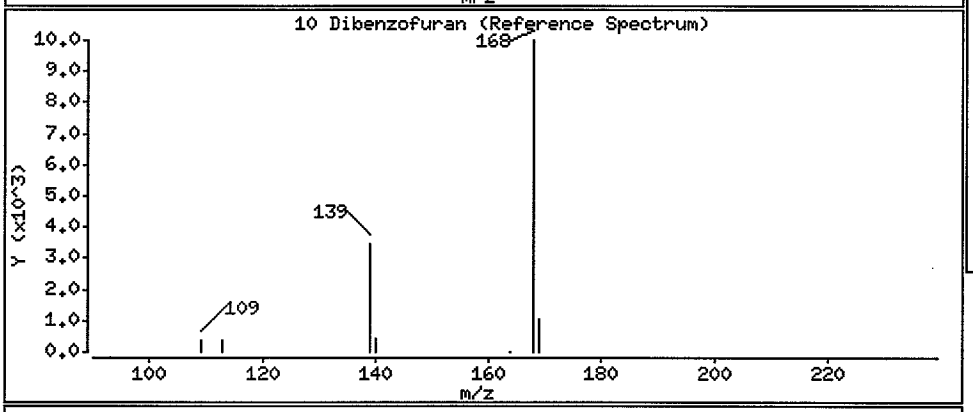
NR-qd

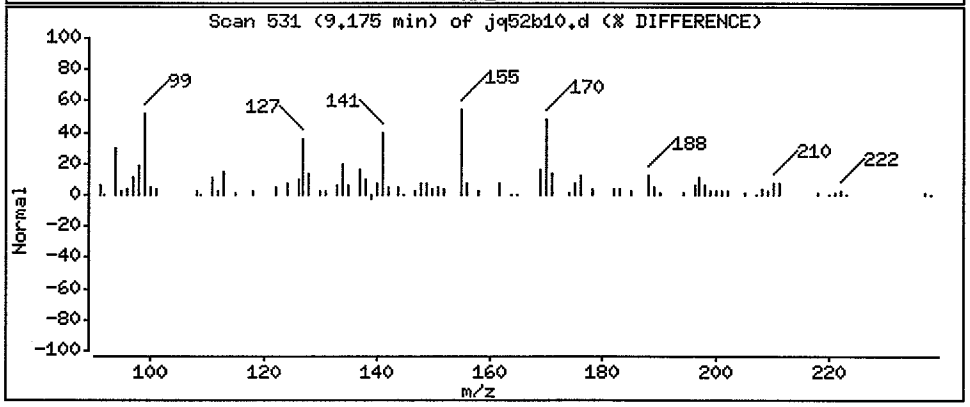
10 Dibenzofuran

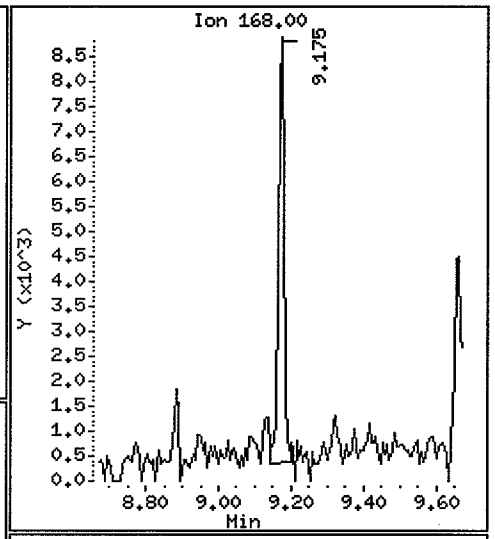
Concentration: 44.22 ug/kg

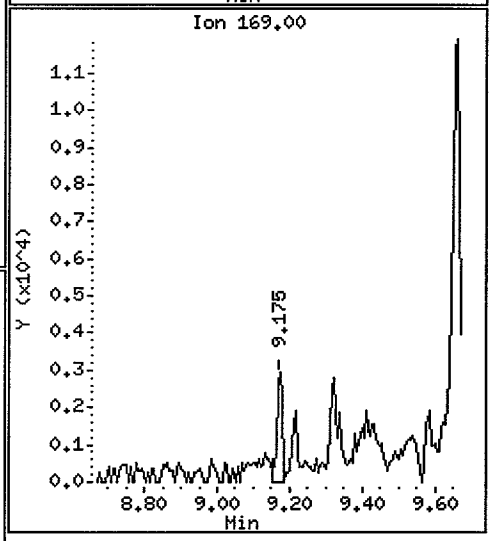












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

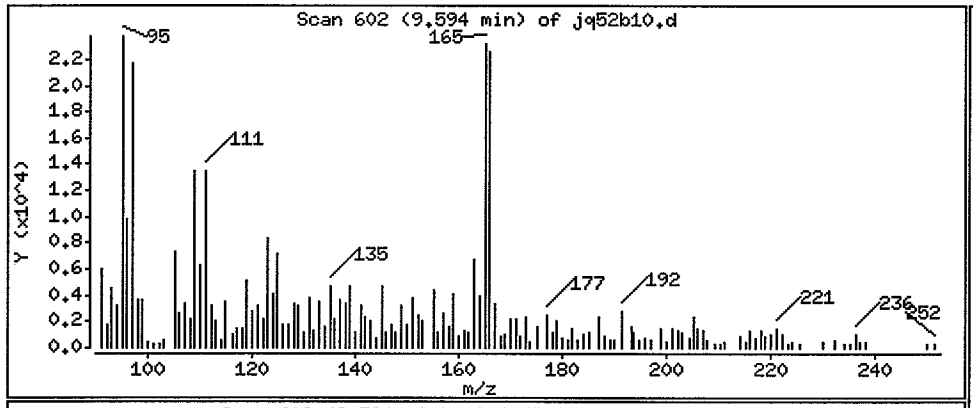
Operator: VTS

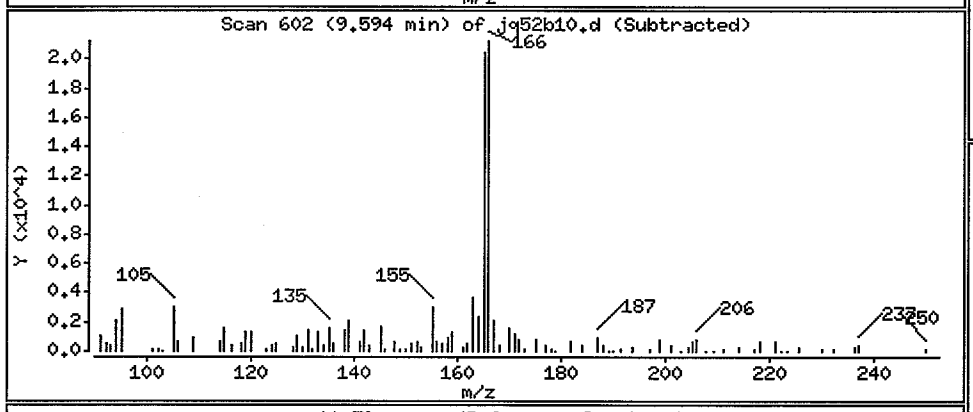
Column phase: ZB-5

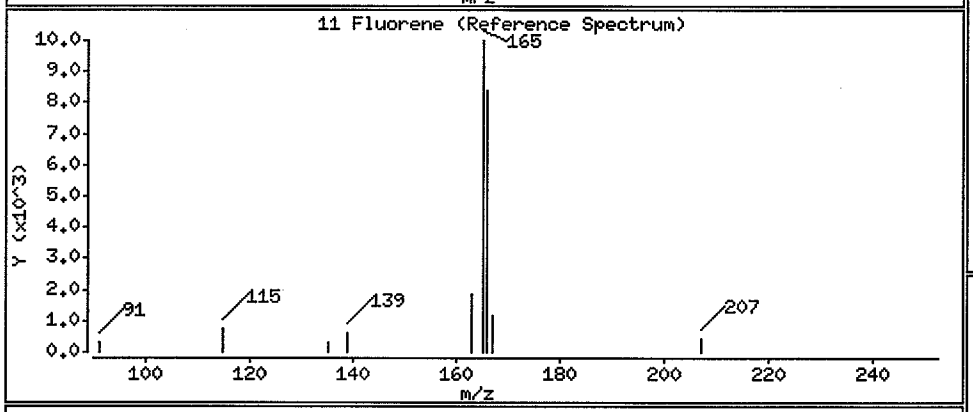
Column diameter: 0.25

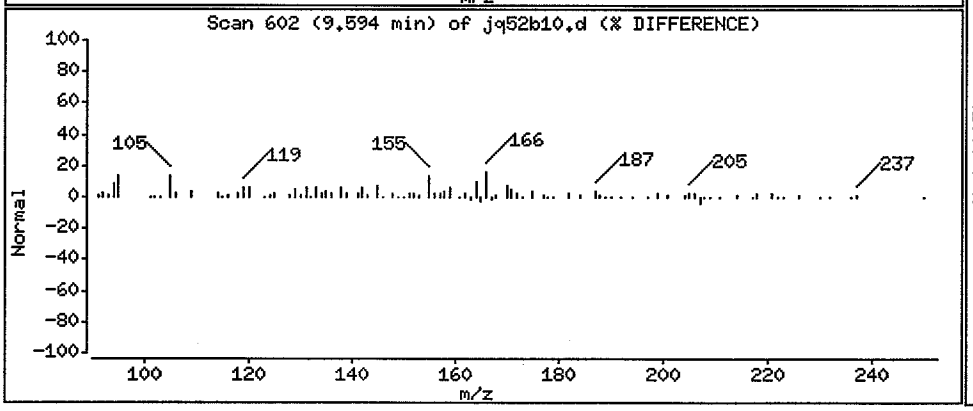
11 Fluorene

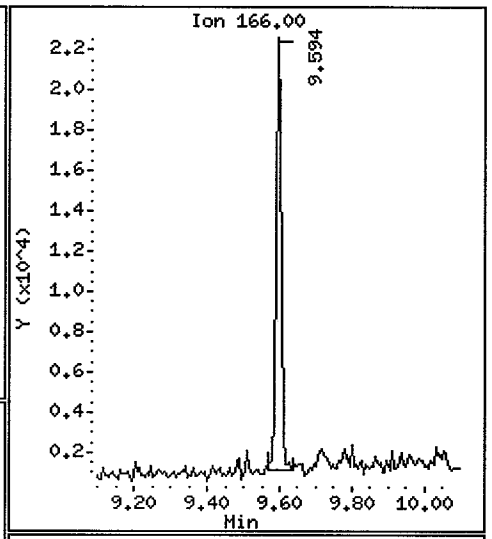
Concentration: 131.0 ug/kg

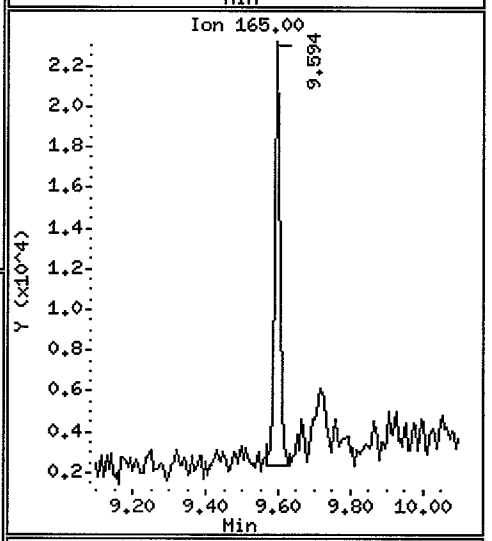


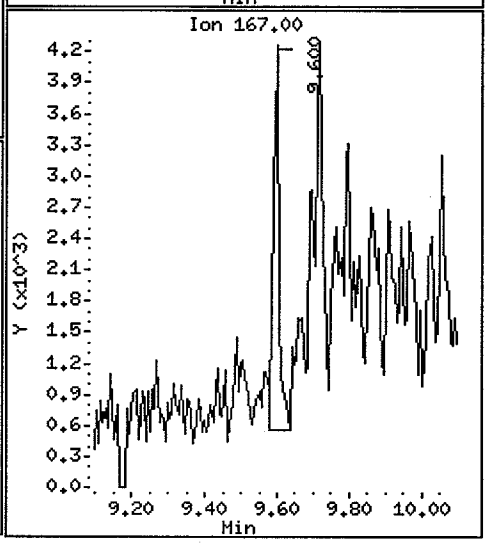












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

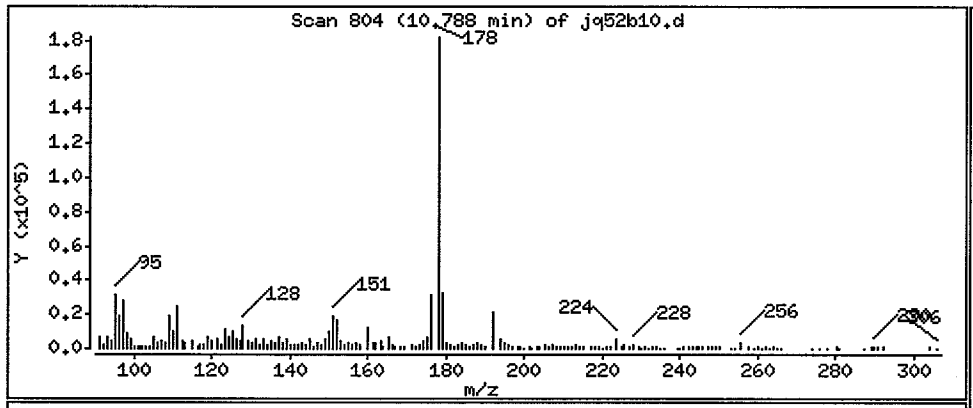
Operator: VTS

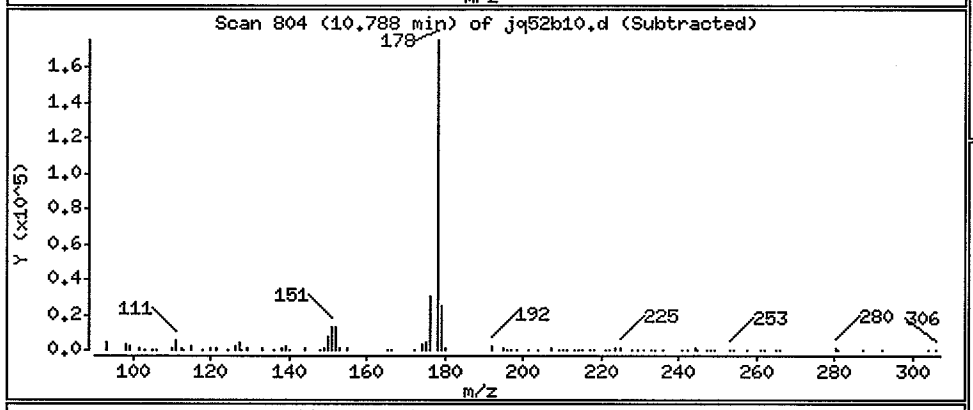
Column phase: ZB-5

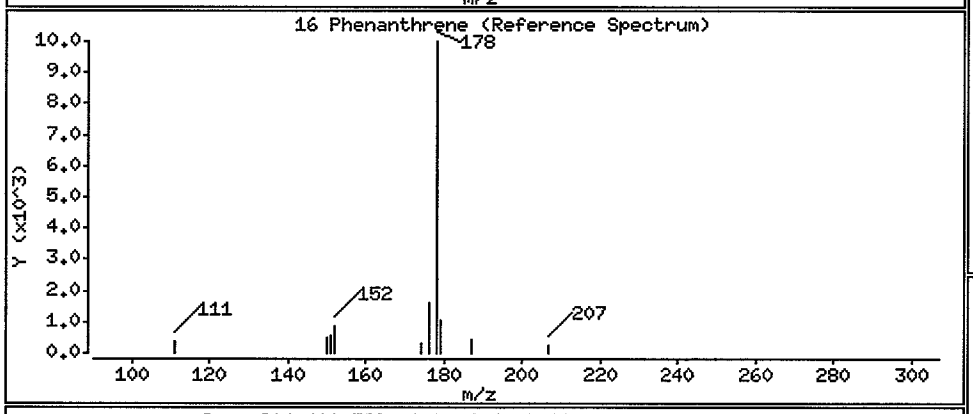
Column diameter: 0.25

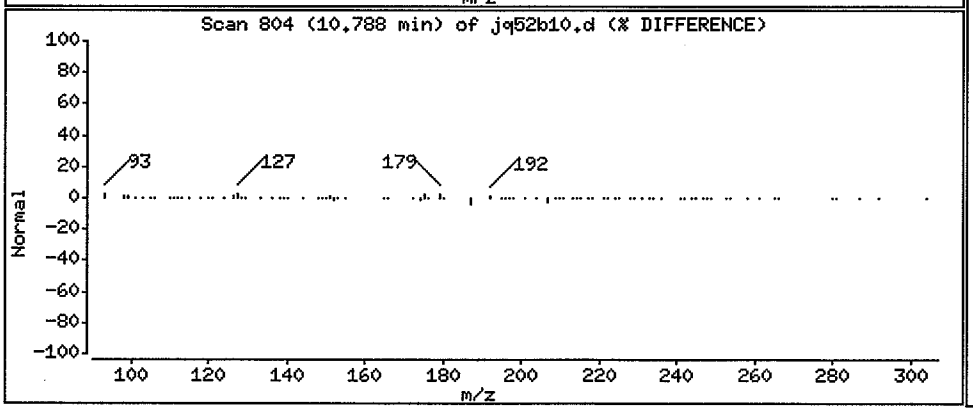
16 Phenanthrene

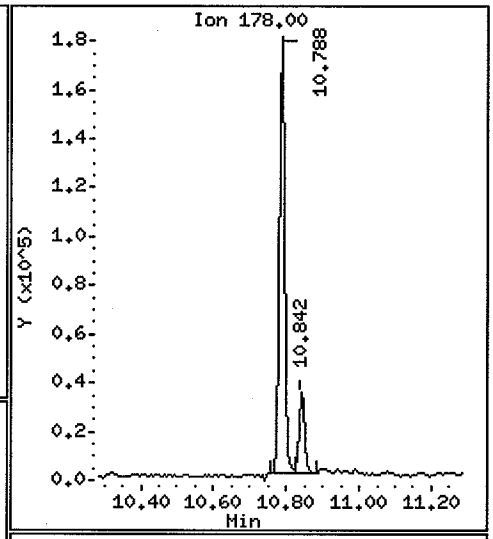
Concentration: 754.1 ug/kg

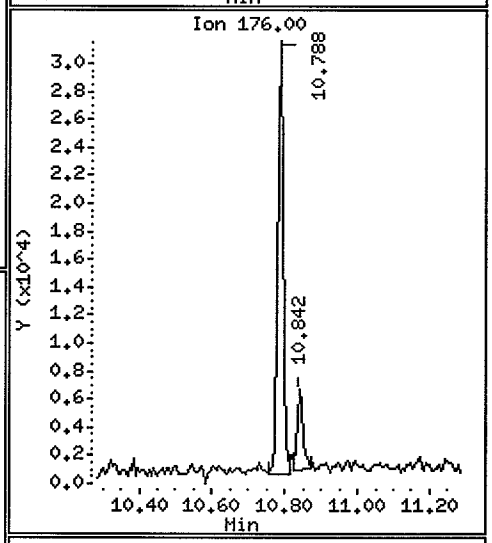


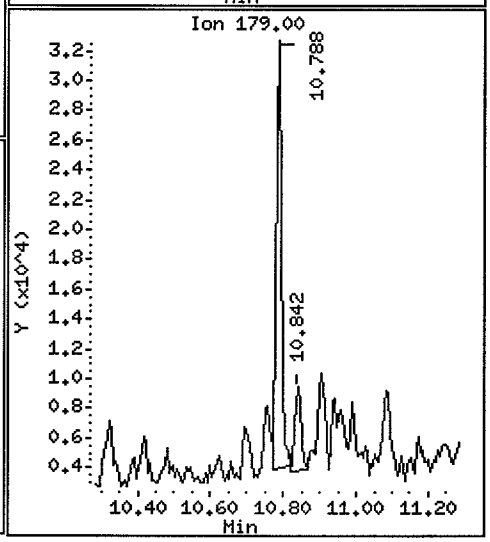












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

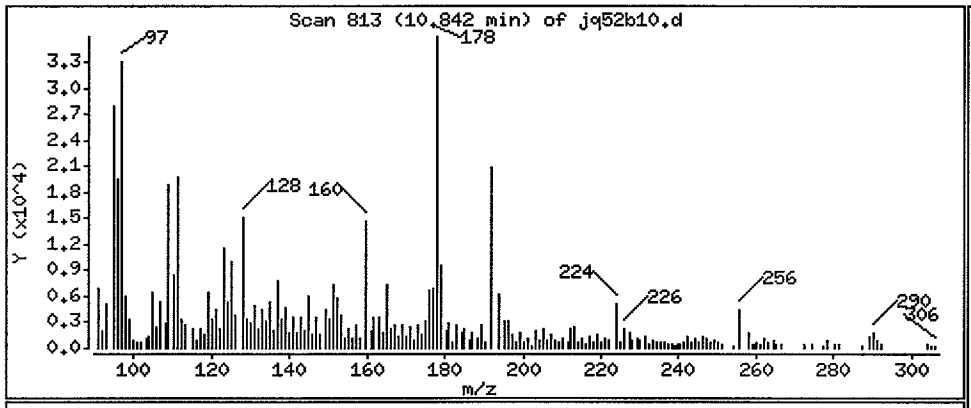
Operator: VTS

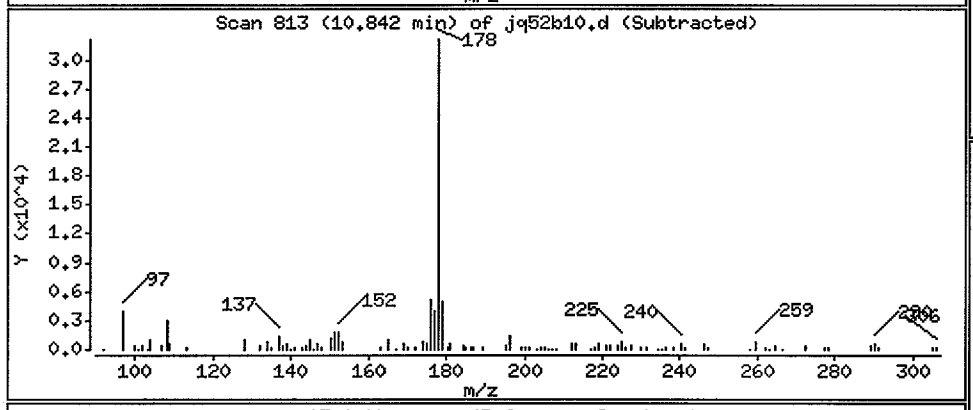
Column phase: ZB-5

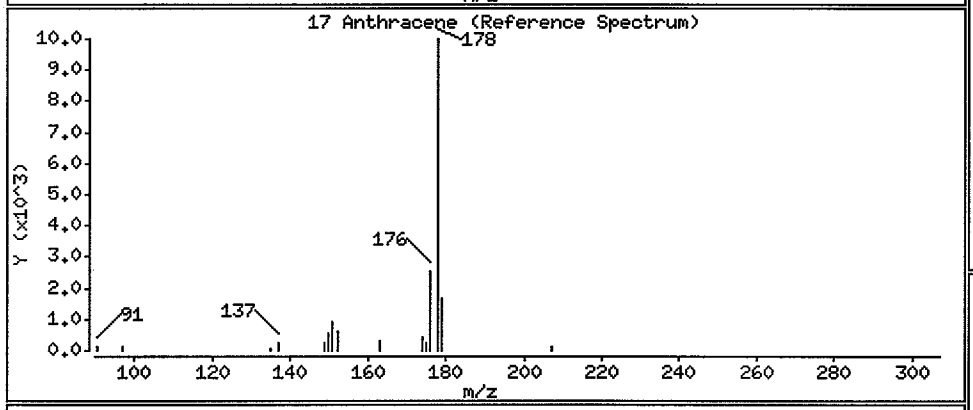
Column diameter: 0.25

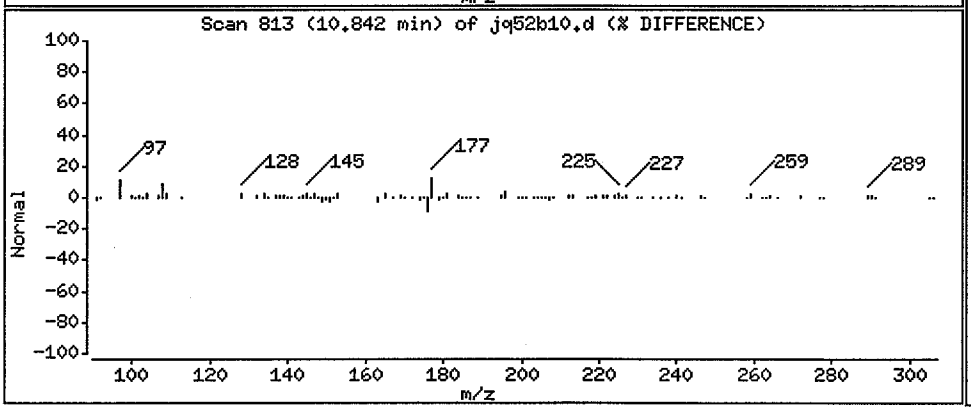
17 Anthracene

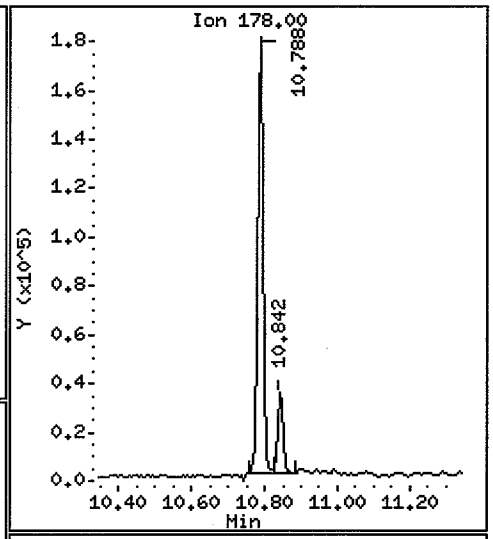
Concentration: 146.8 ug/kg

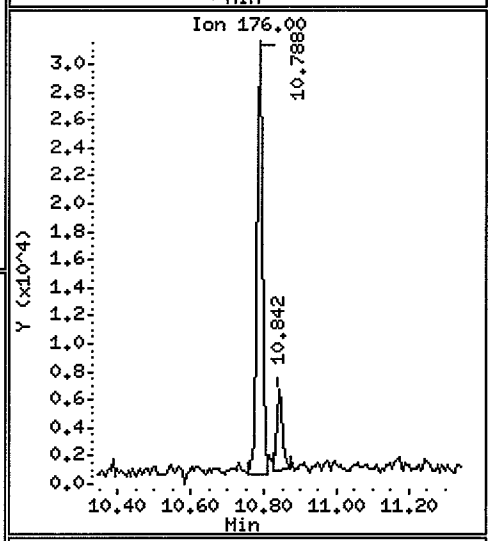


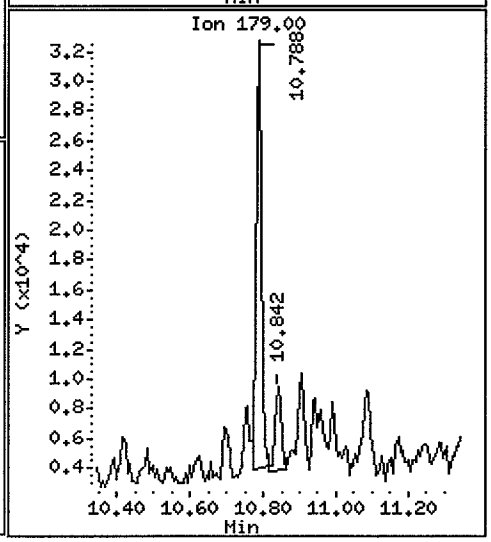












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

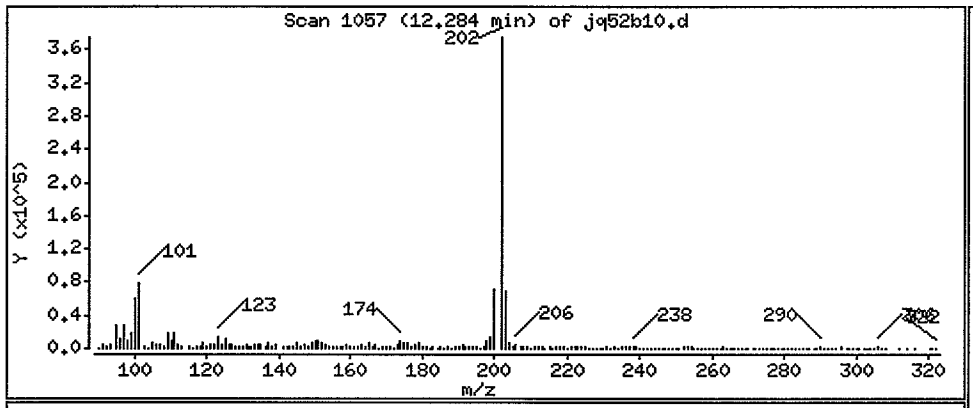
Operator: VTS

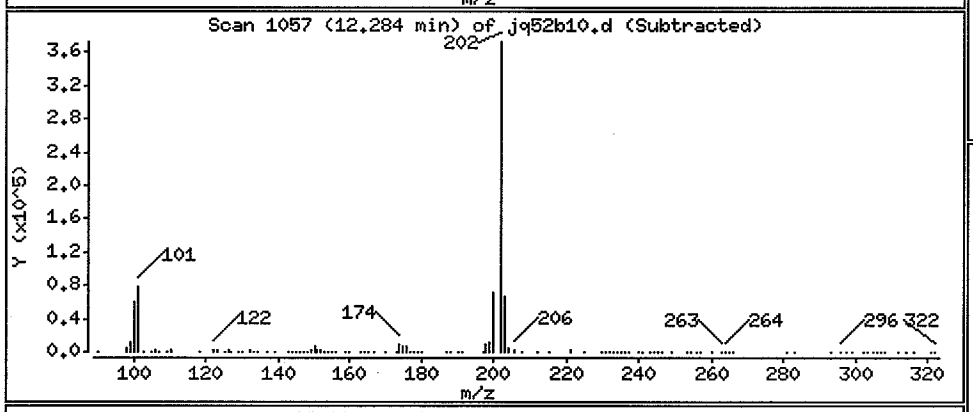
Column phase: ZB-5

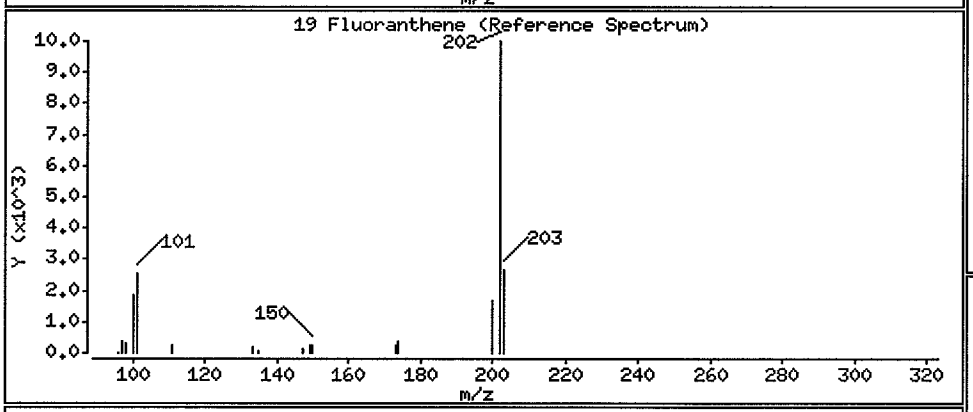
Column diameter: 0.25

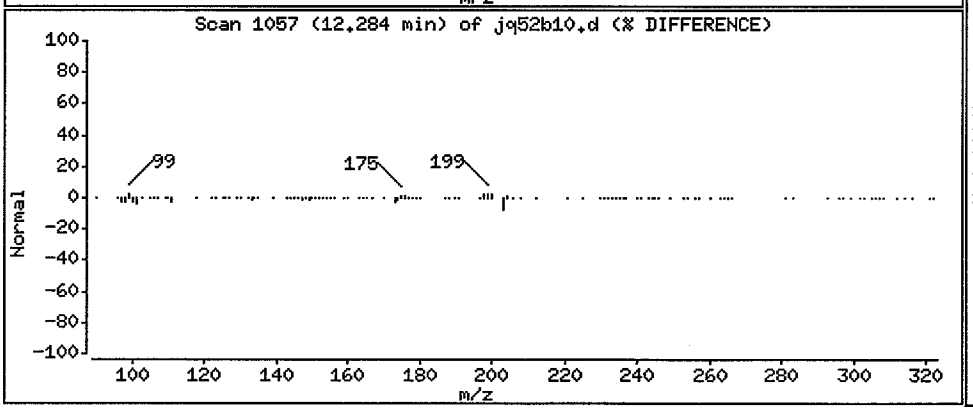
19 Fluoranthene

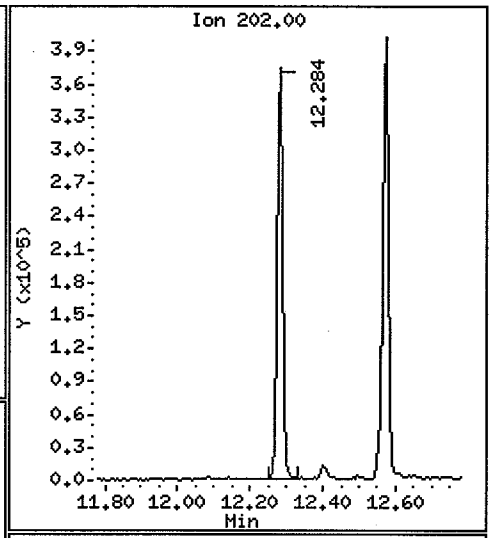
Concentration: 1592 ug/kg

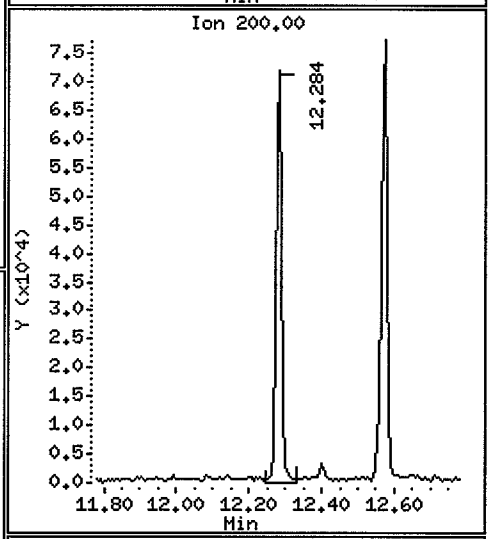


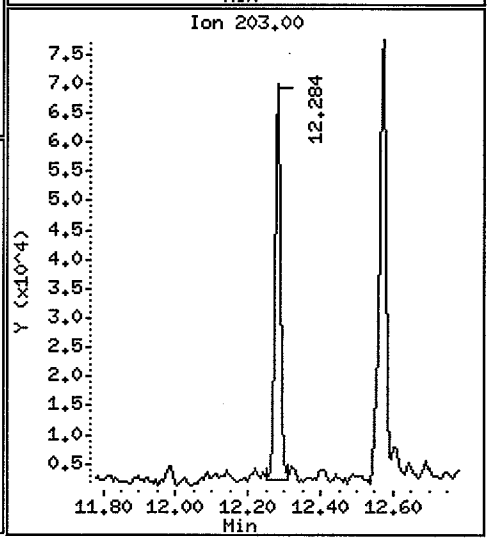












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

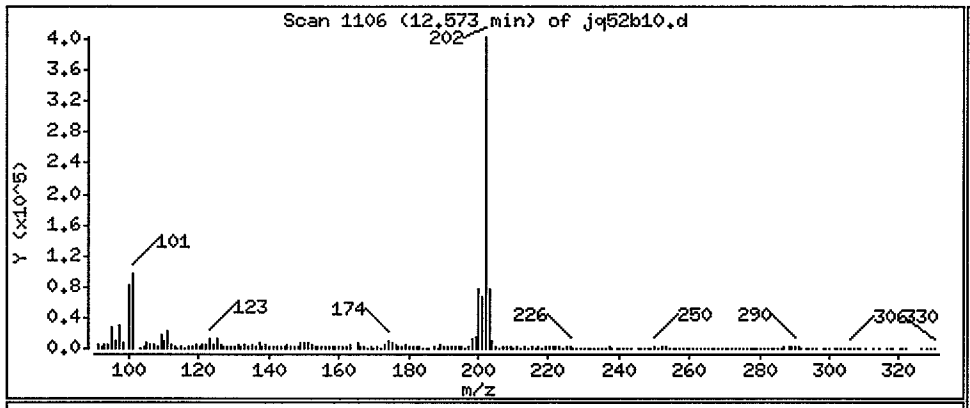
Operator: VTS

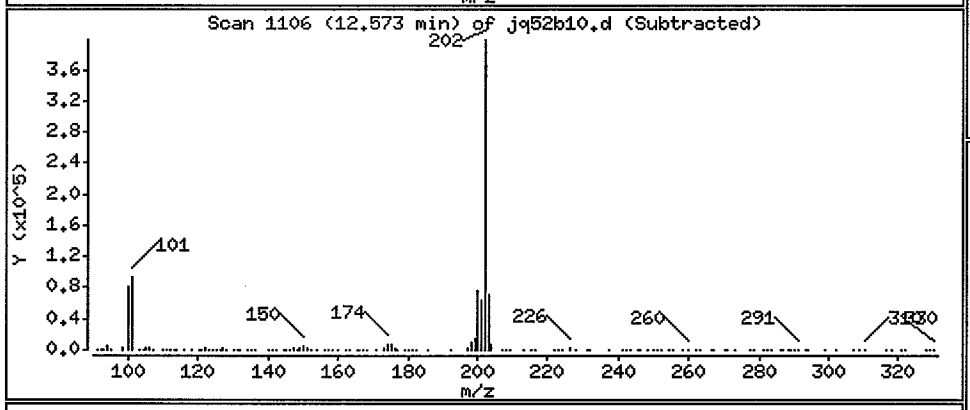
Column phase: ZB-5

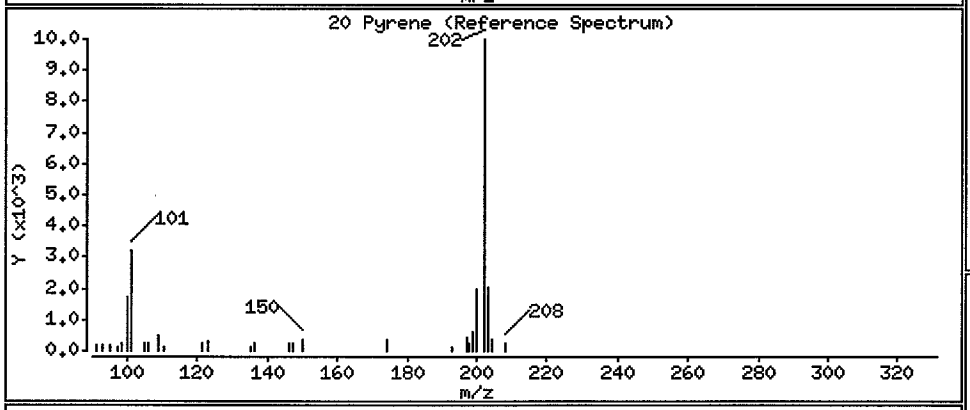
Column diameter: 0.25

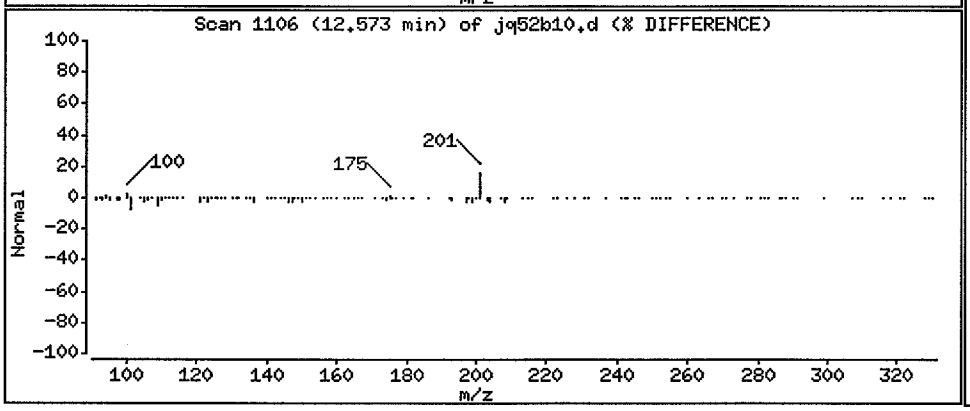
20 Pyrene

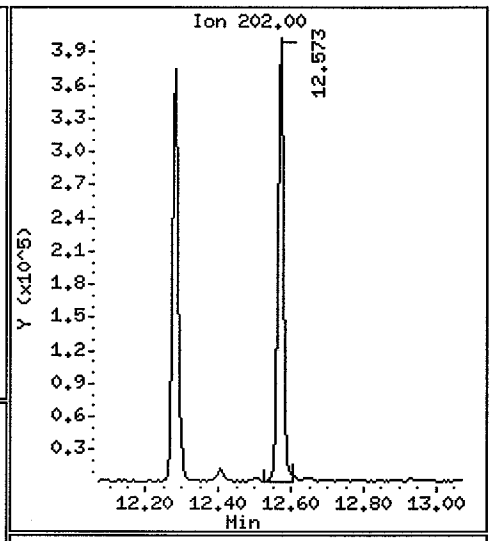
Concentration: 1650 ug/kg

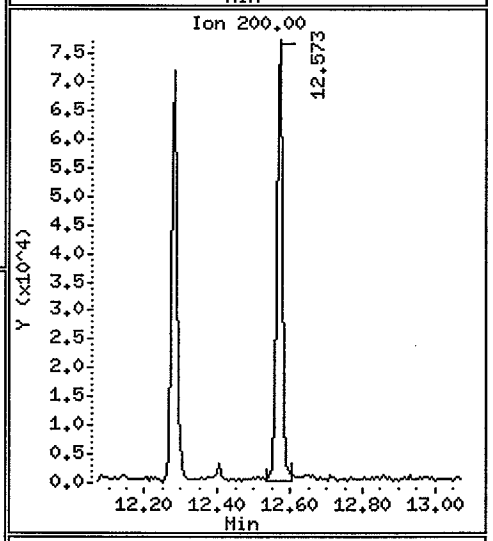


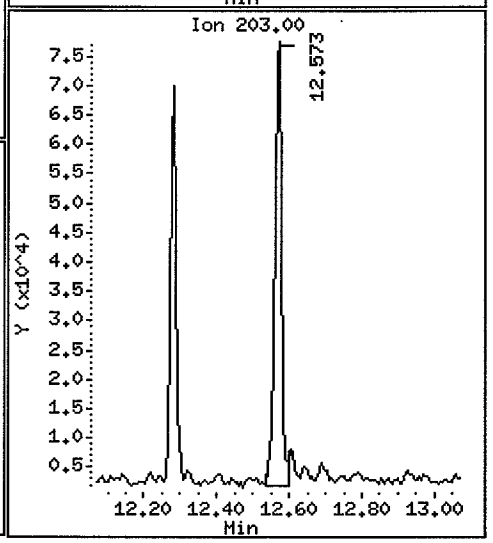












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

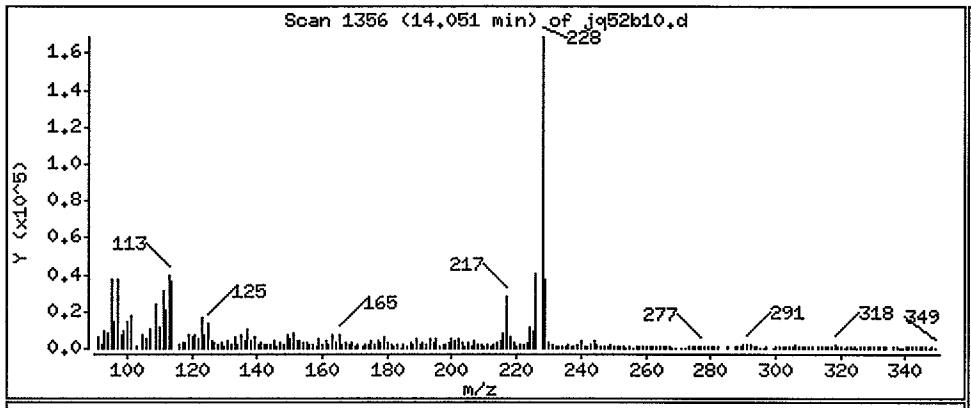
Operator: VTS

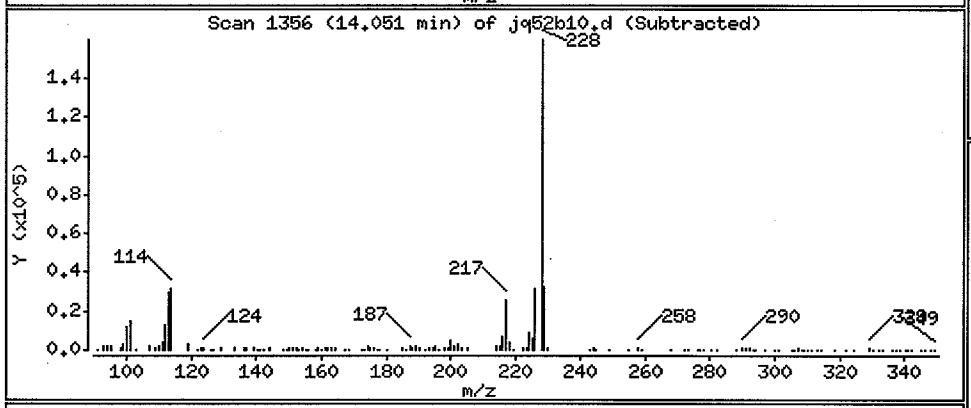
Column phase: ZB-5

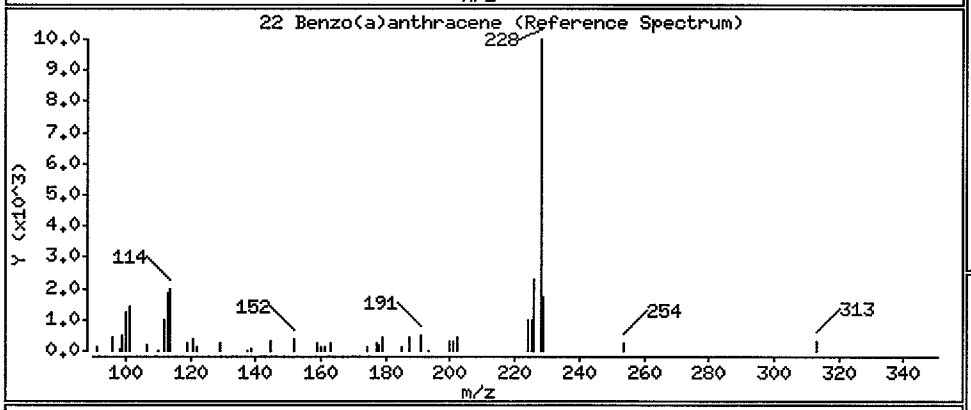
Column diameter: 0.25

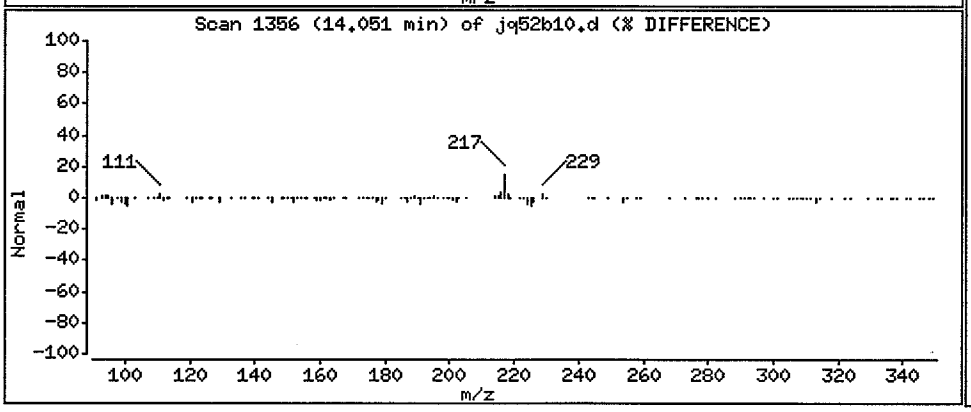
22 Benzo(a)anthracene

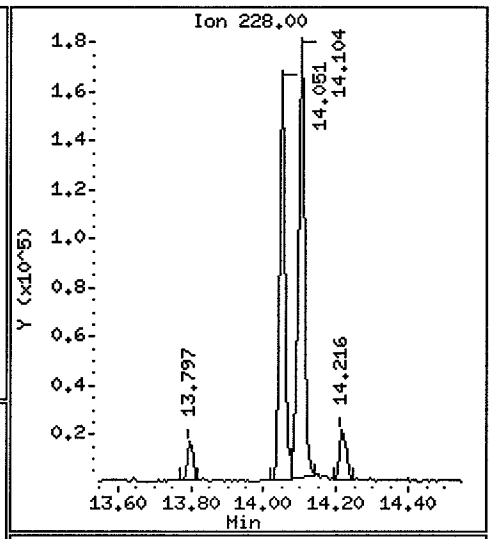
Concentration: 707.1 ug/kg

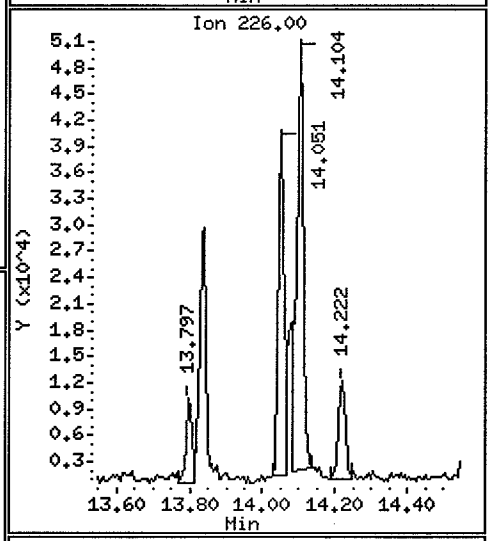


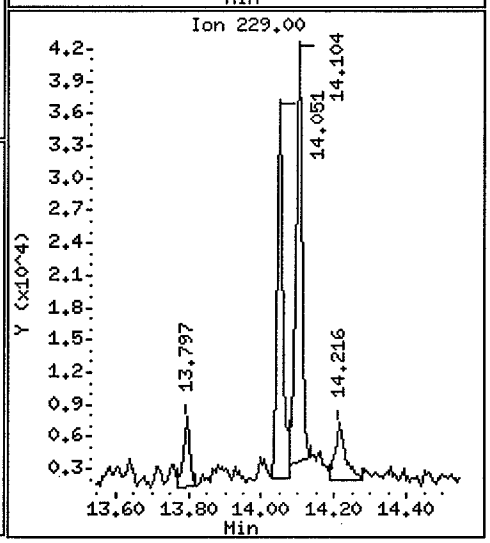












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

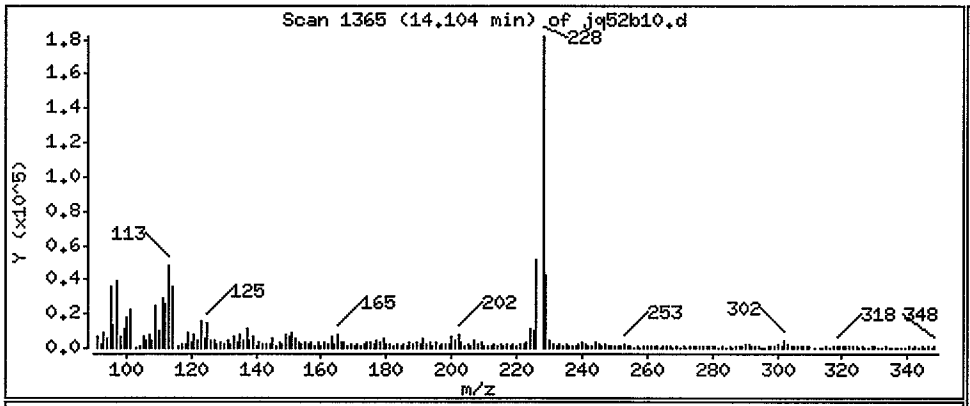
Operator: VTS

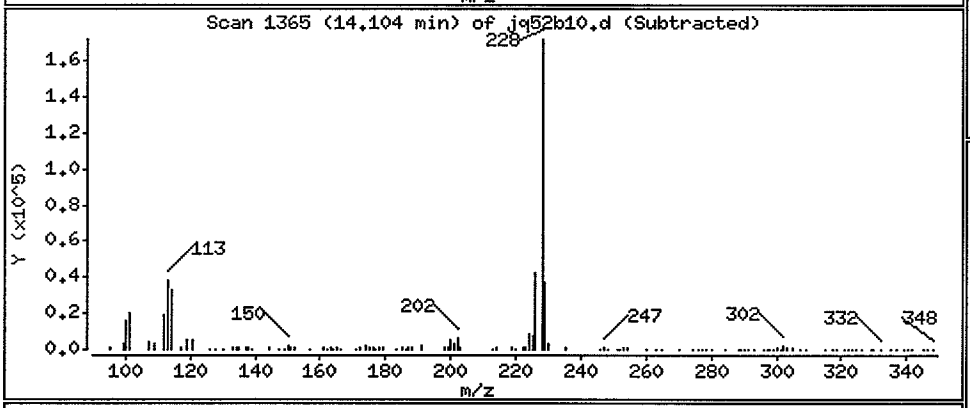
Column phase: ZB-5

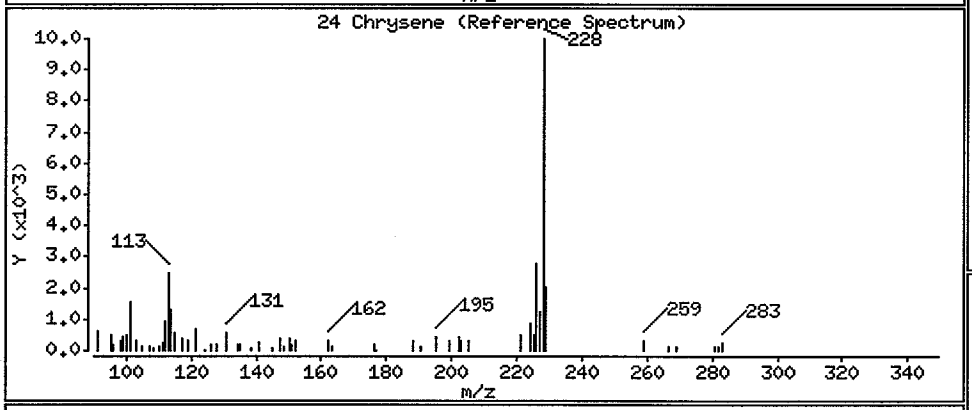
Column diameter: 0.25

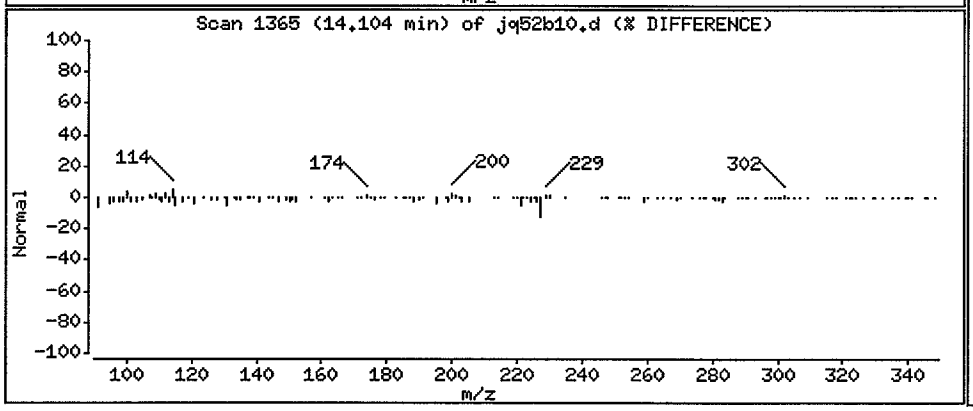
24 Chrysene

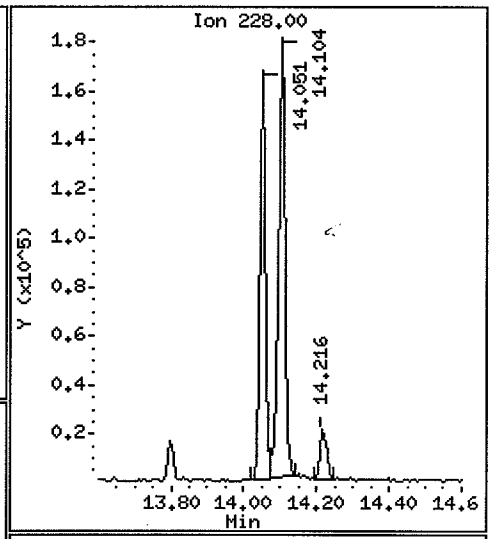
Concentration: 962.6 ug/kg

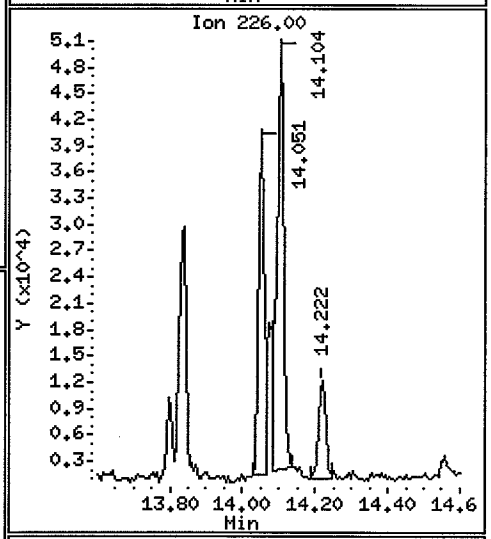


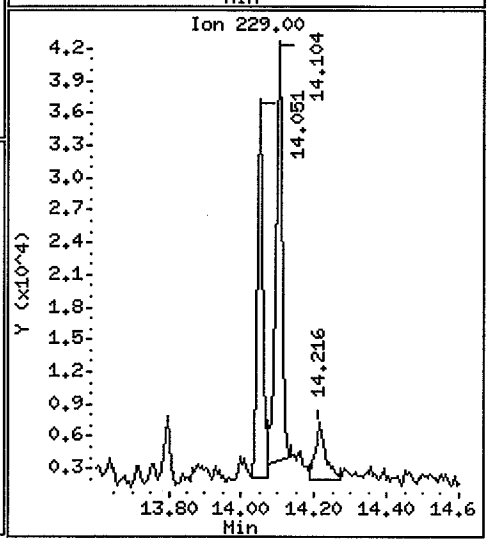












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

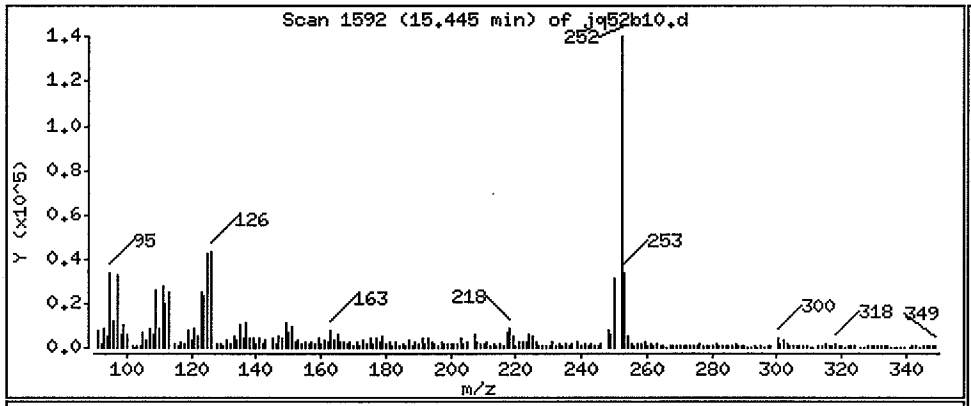
Operator: VTS

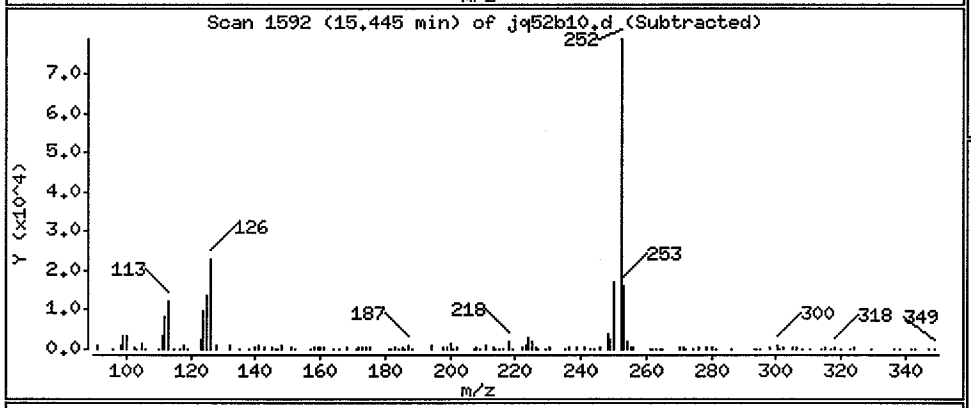
Column phase: ZB-5

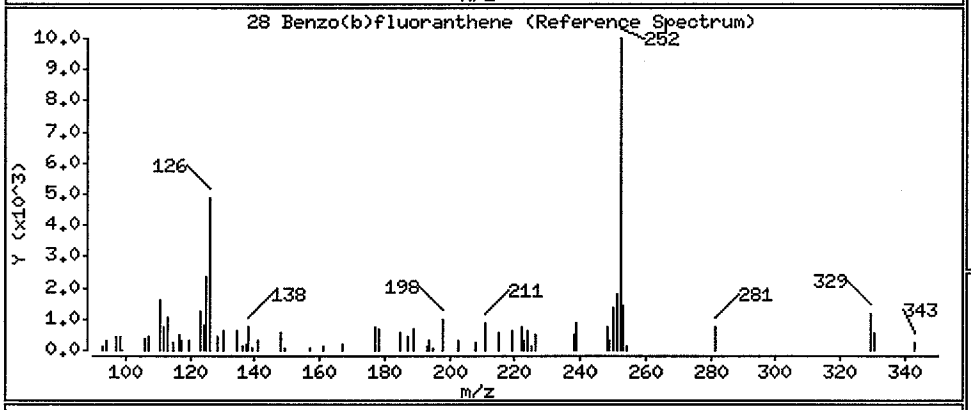
Column diameter: 0.25

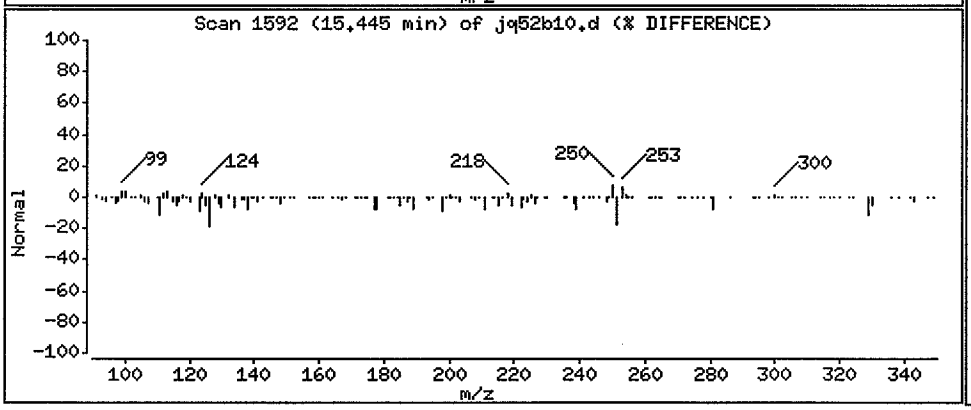
28 Benzo(b)fluoranthene

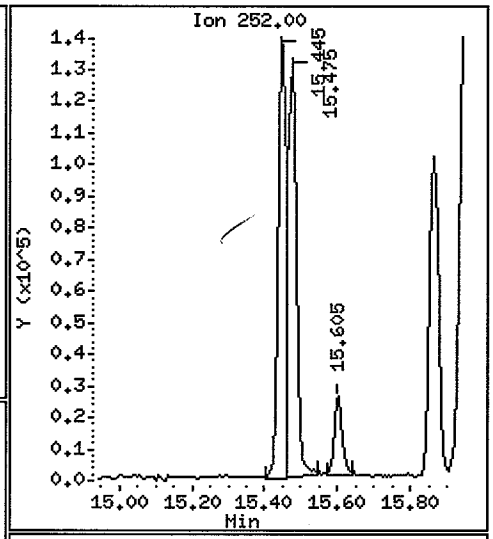
Concentration: 883.6 ug/kg

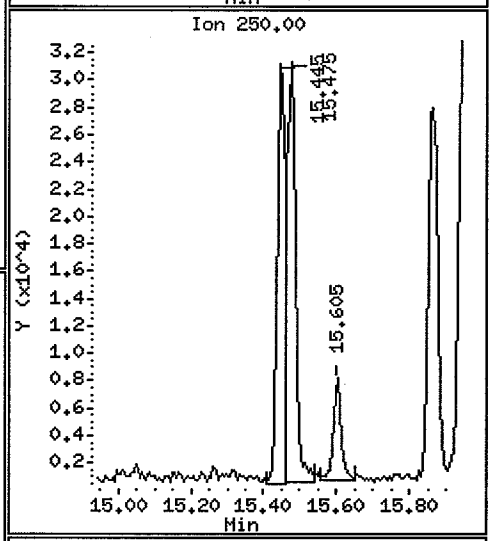


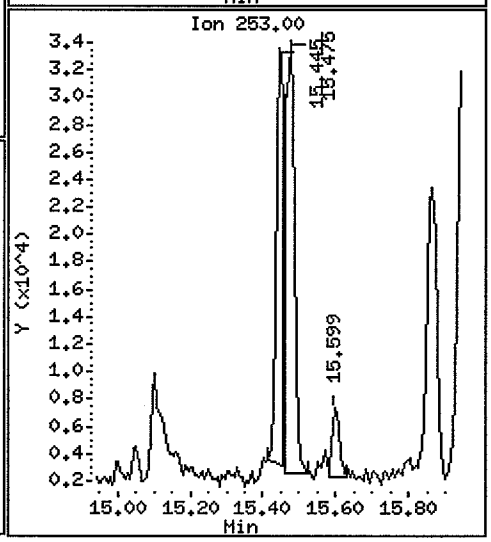












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

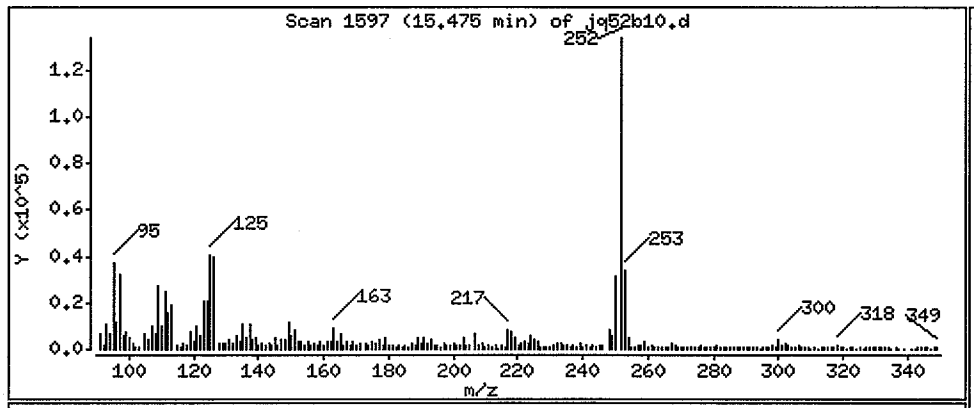
Operator: VTS

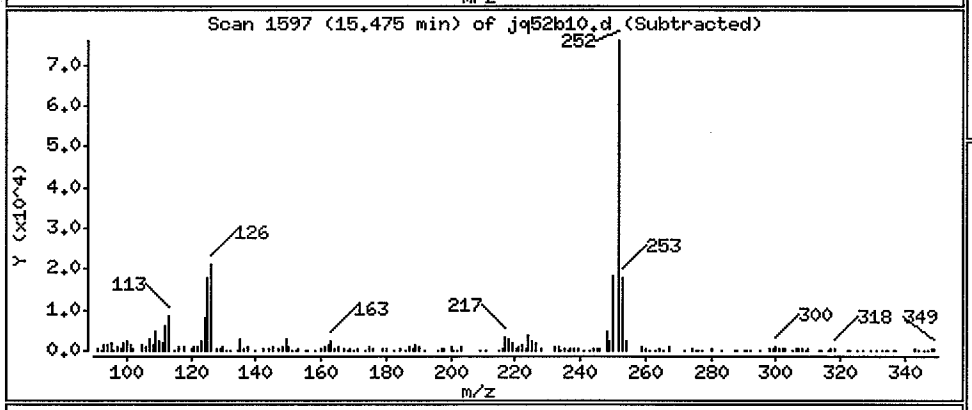
Column phase: ZB-5

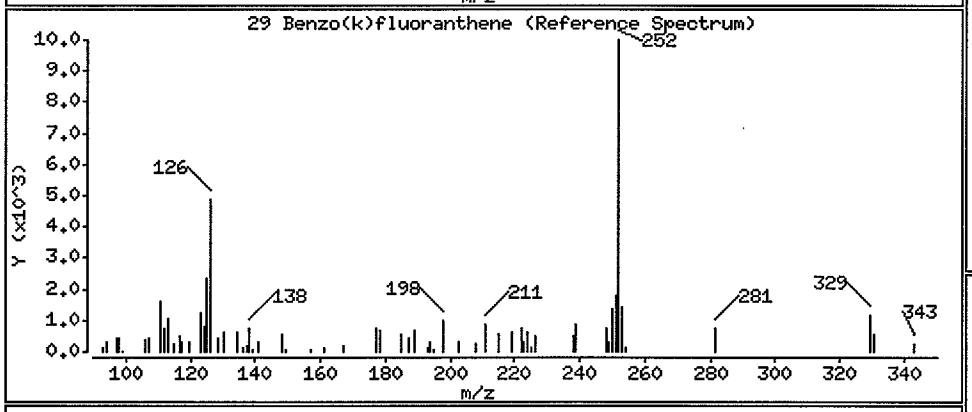
Column diameter: 0.25

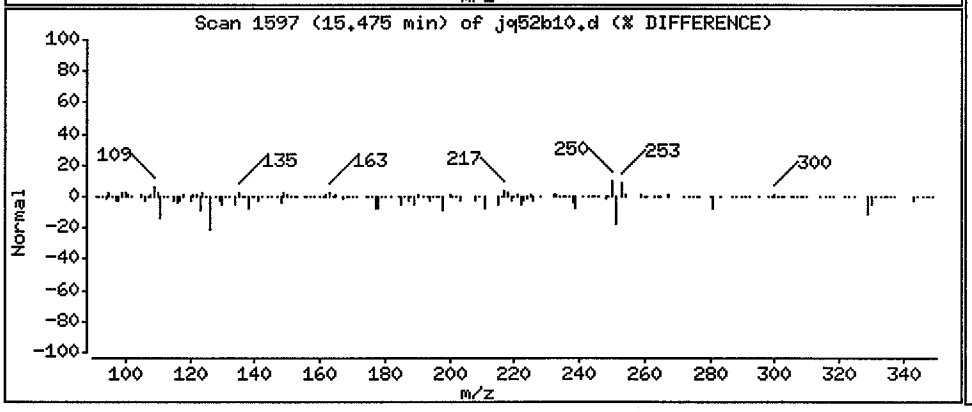
29 Benzo(k)fluoranthene

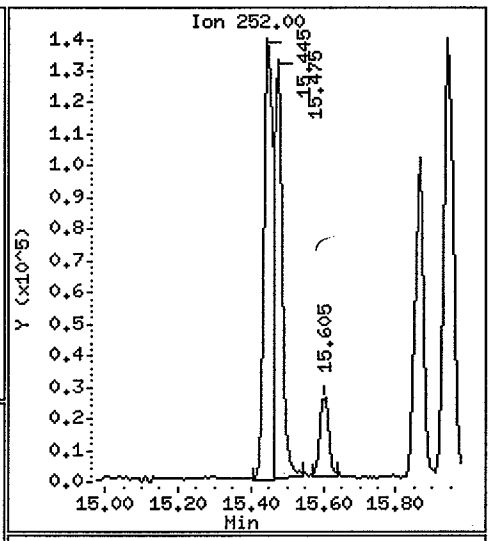
Concentration: 747.0 ug/kg

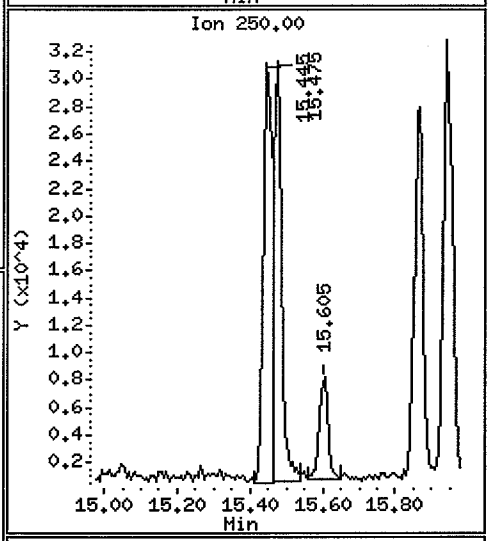


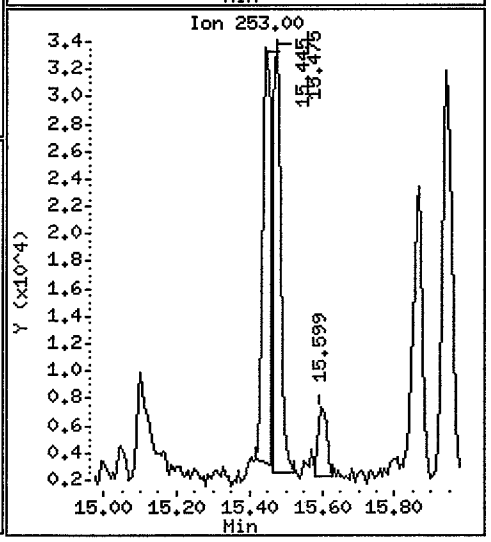












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

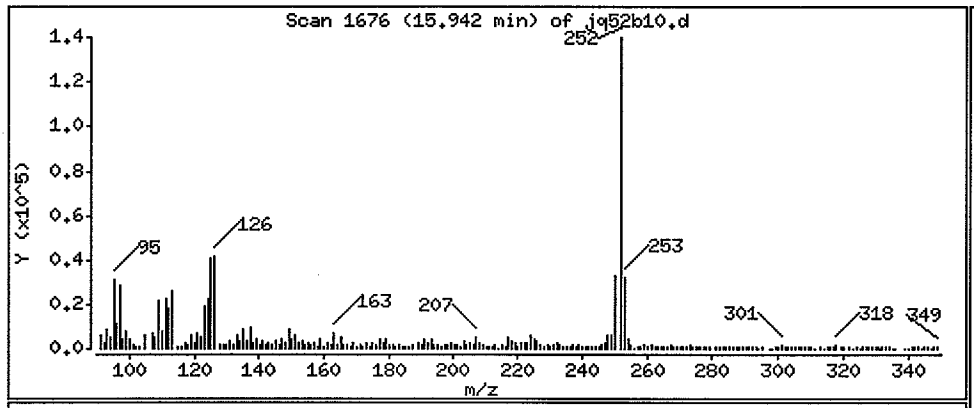
Operator: VTS

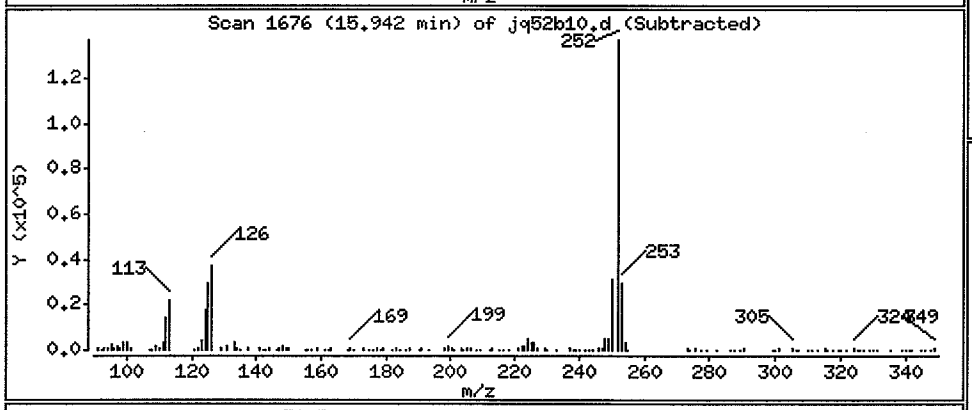
Column phase: ZB-5

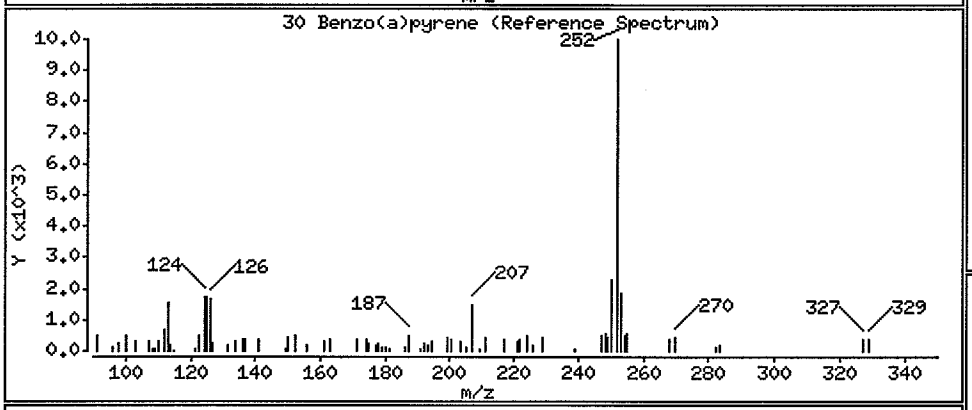
Column diameter: 0.25

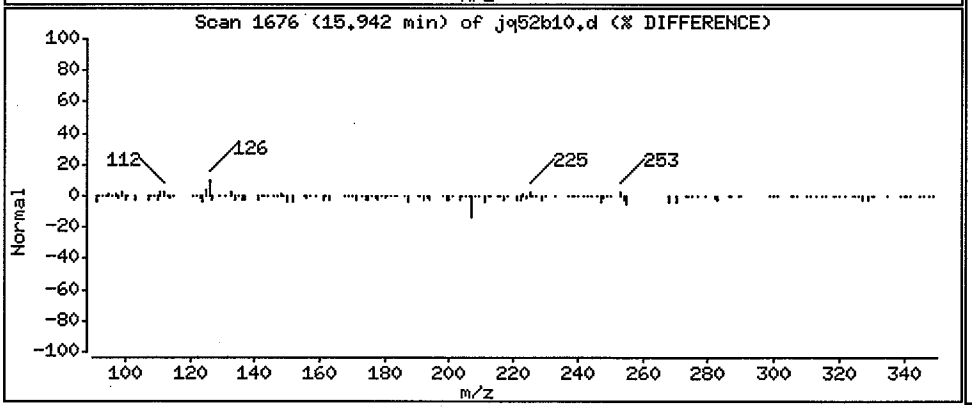
30 Benzo(a)pyrene

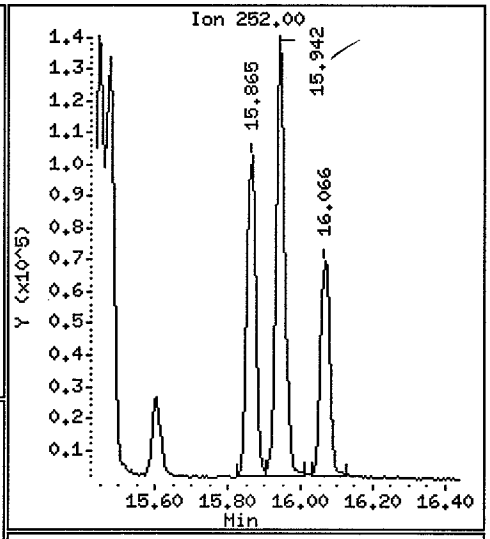
Concentration: 906.1 ug/kg

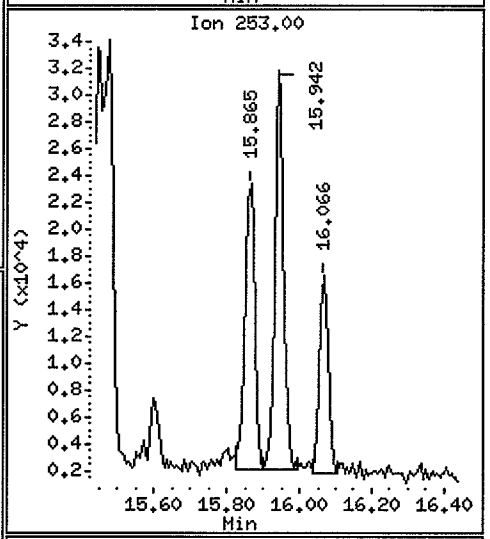


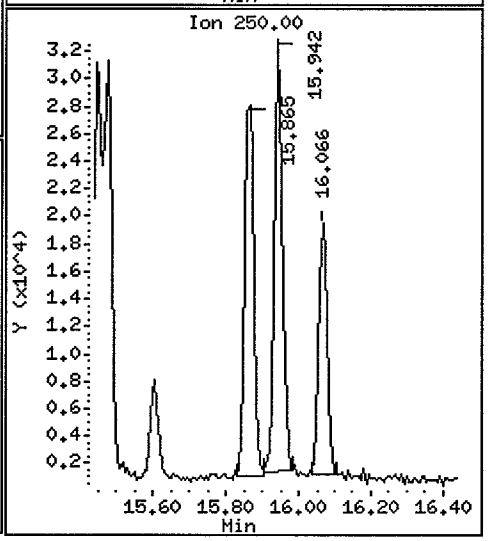












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

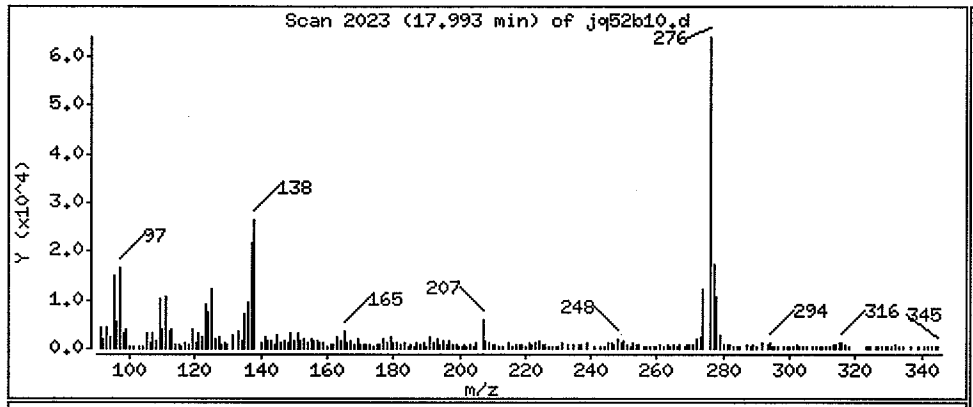
Operator: VTS

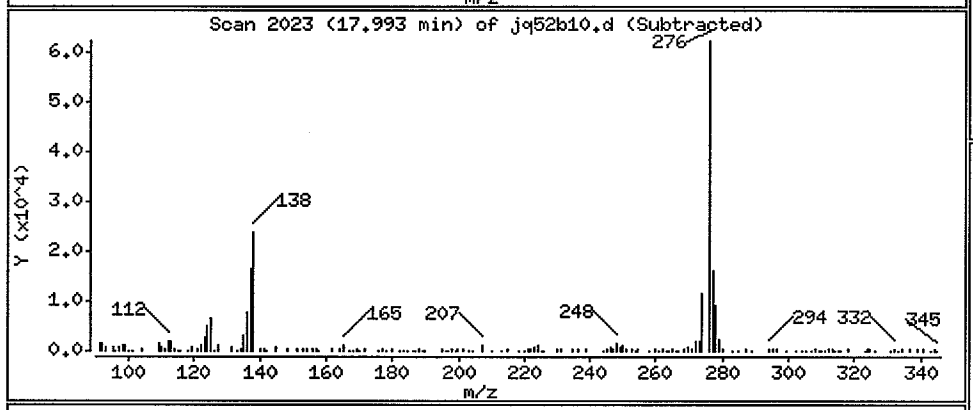
Column phase: ZB-5

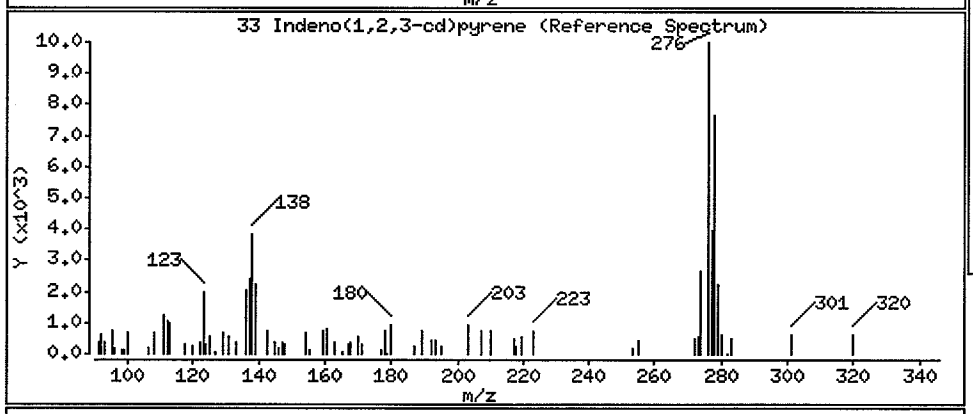
Column diameter: 0.25

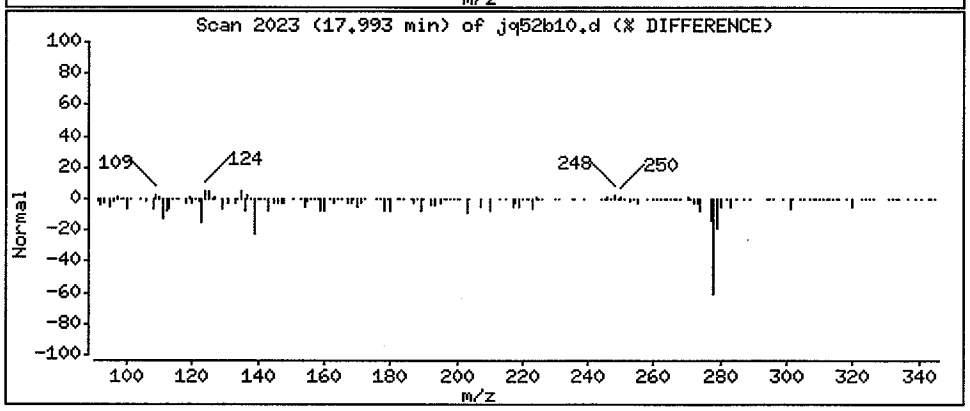
33 Indeno(1,2,3-cd)pyrene

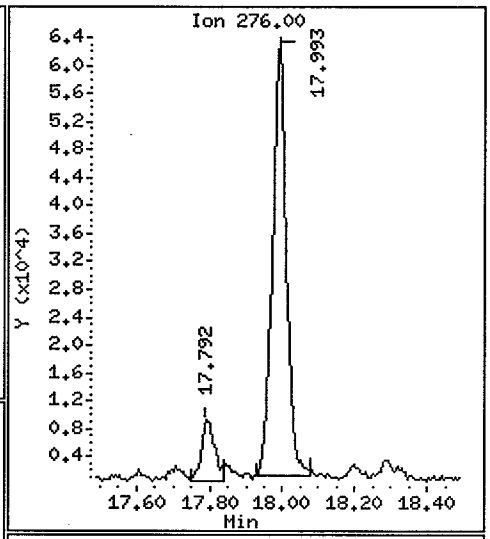
Concentration: 550.2 ug/kg

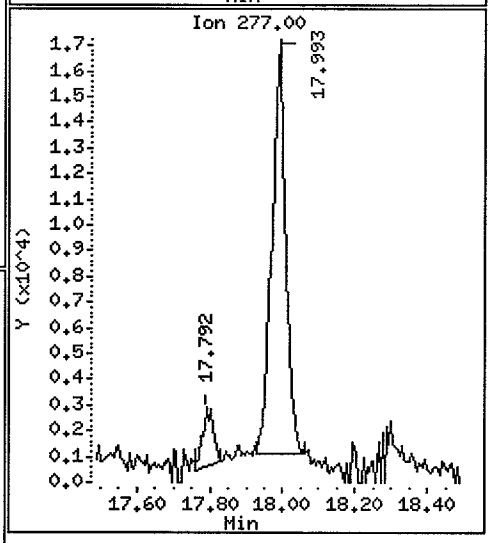












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

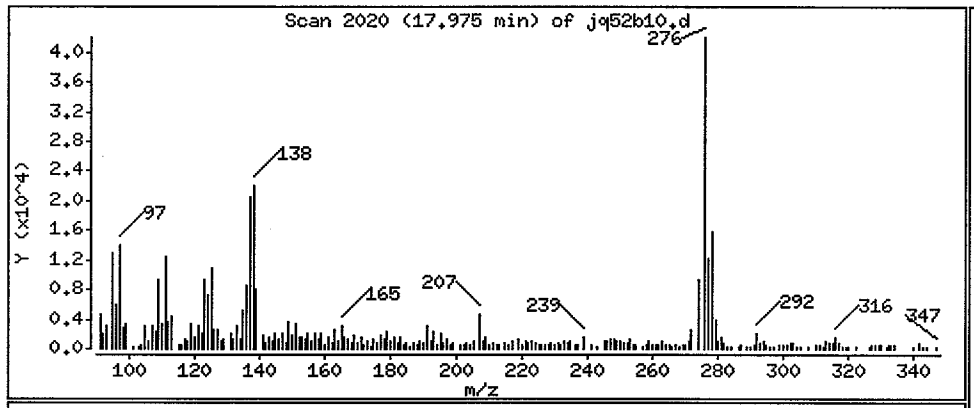
Operator: VTS

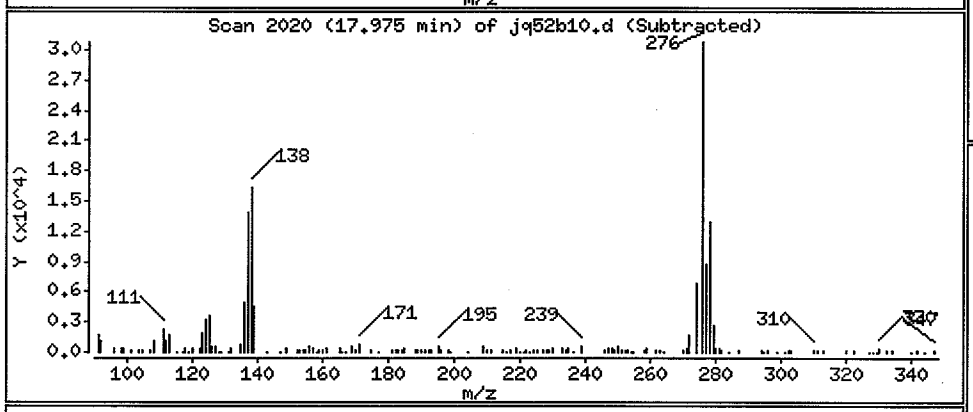
Column phase: ZB-5

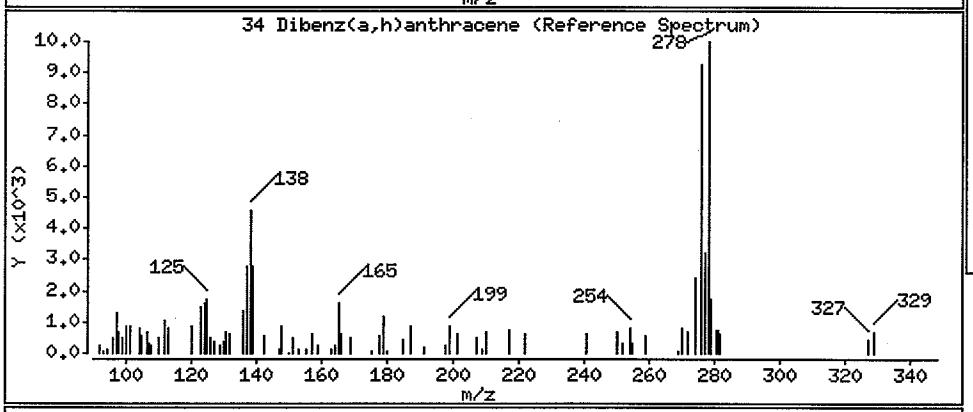
Column diameter: 0.25

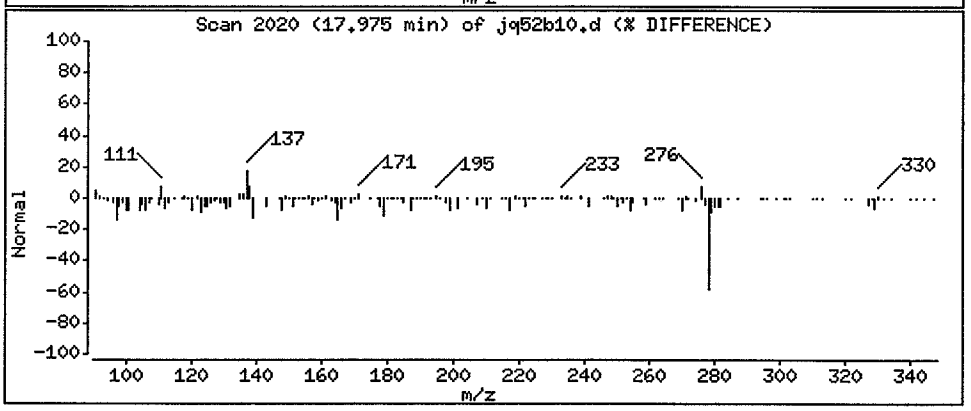
34 Dibenz(a,h)anthracene

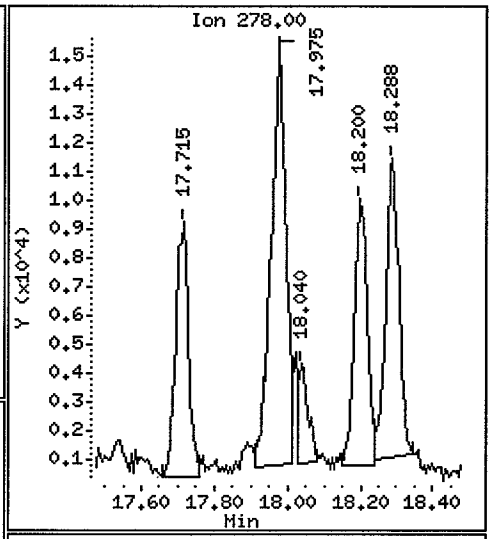
Concentration: 167.5 ug/kg

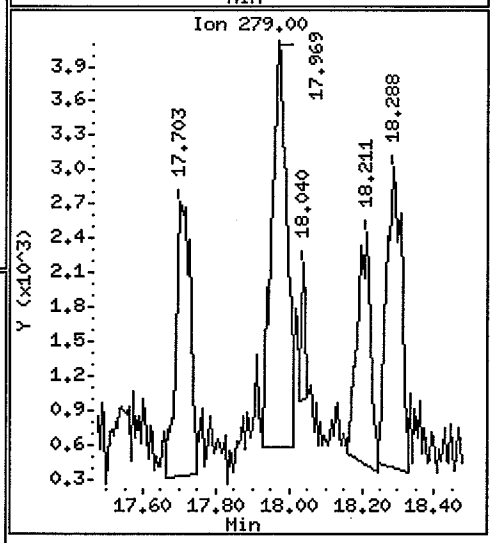












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

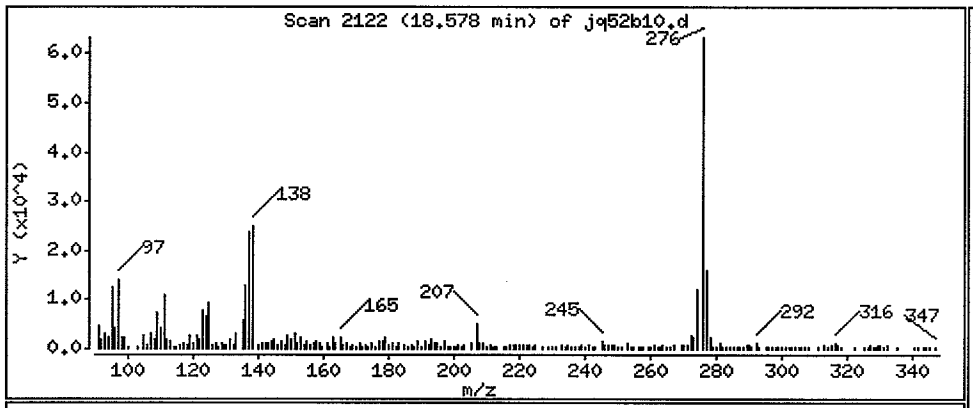
Operator: VTS

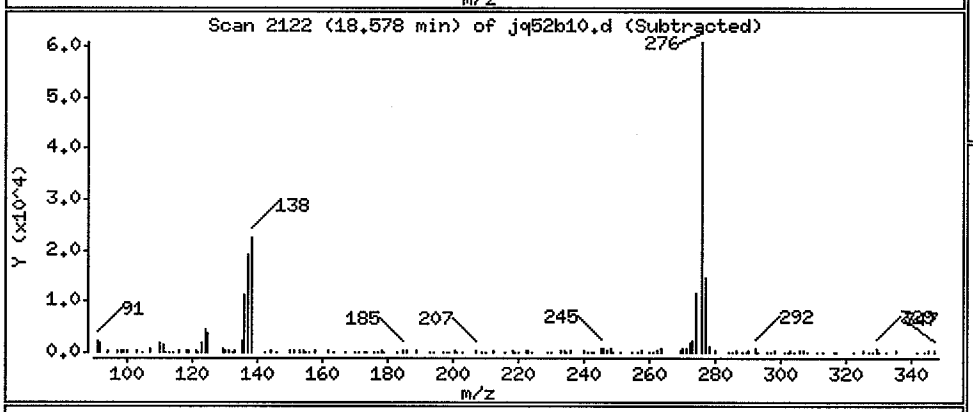
Column phase: ZB-5

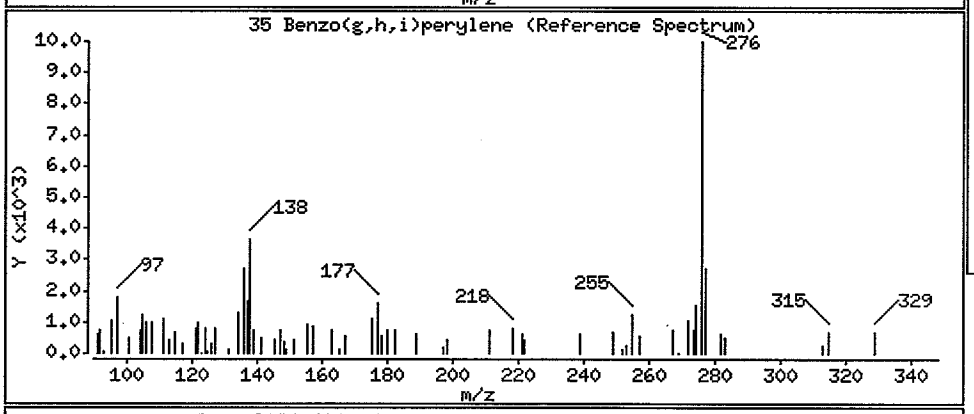
Column diameter: 0.25

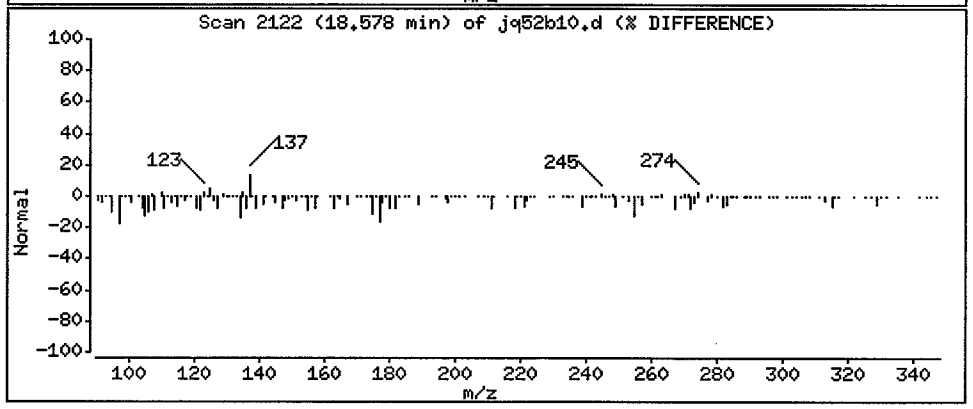
35 Benzo(g,h,i)perylene

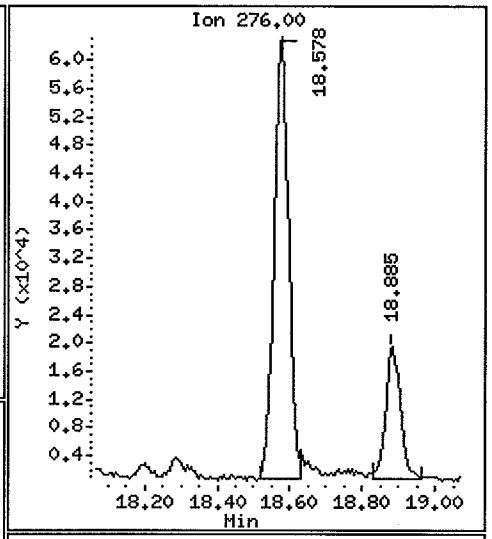
Concentration: 694.2 ug/kg

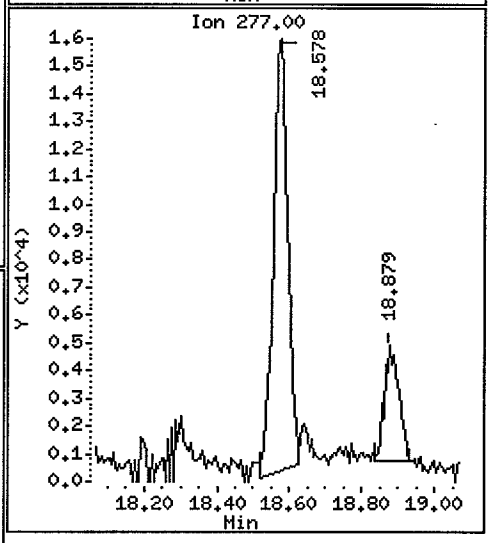












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

Operator: VTS

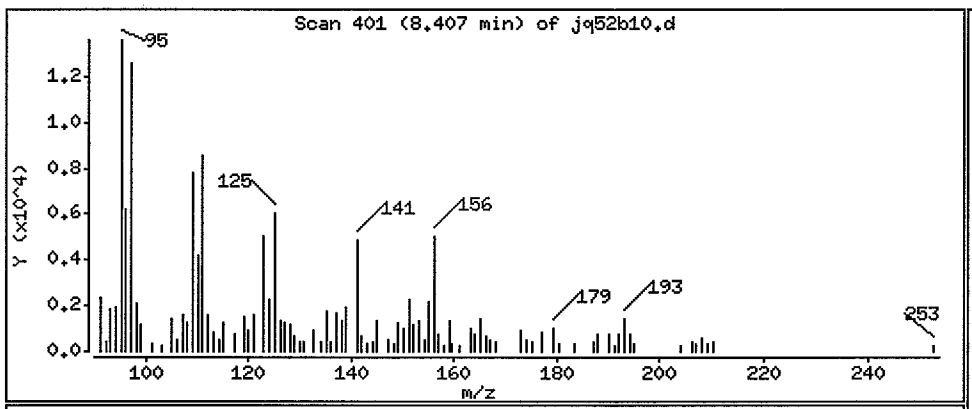
Column phase: ZB-5

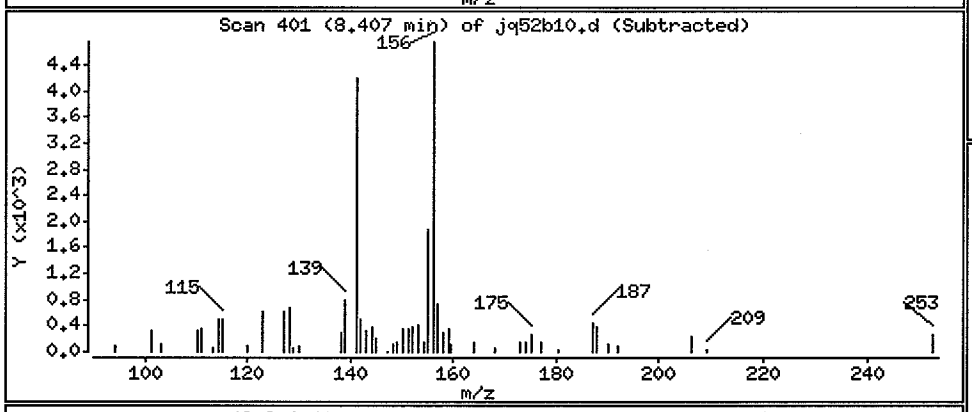
Column diameter: 0.25

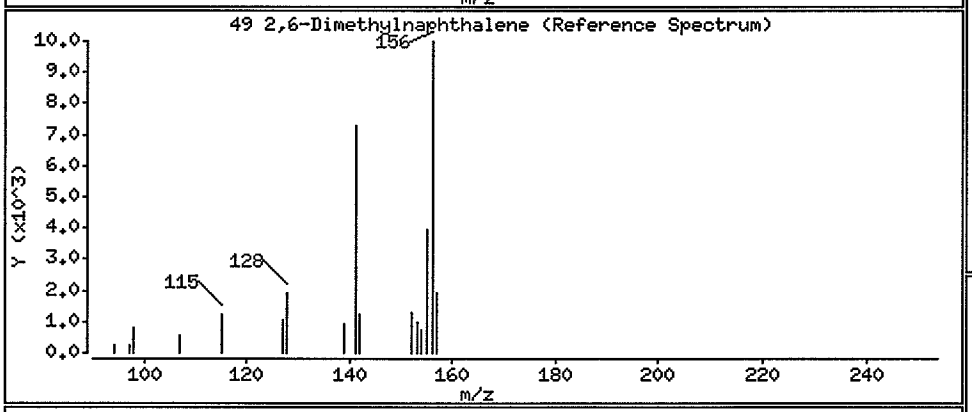
5 CRL Not Reported

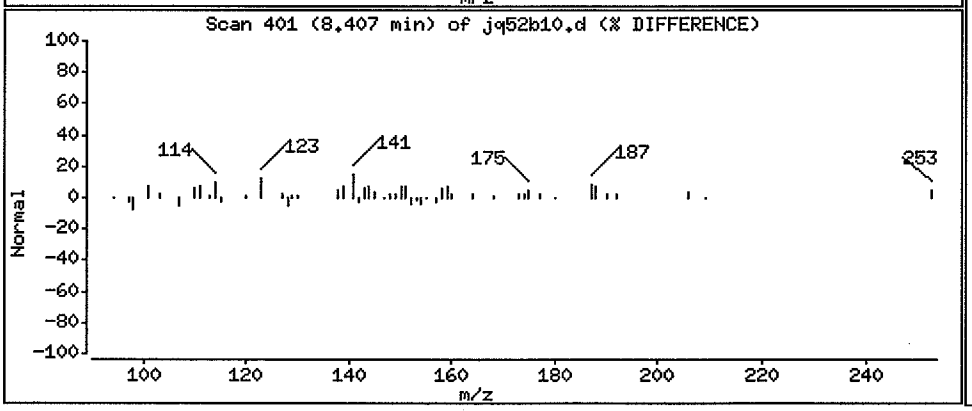
49 2,6-Dimethylnaphthalene

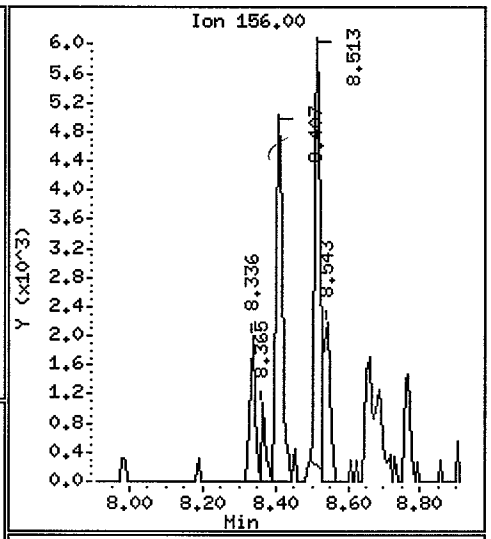
Concentration: 43.64 ug/kg

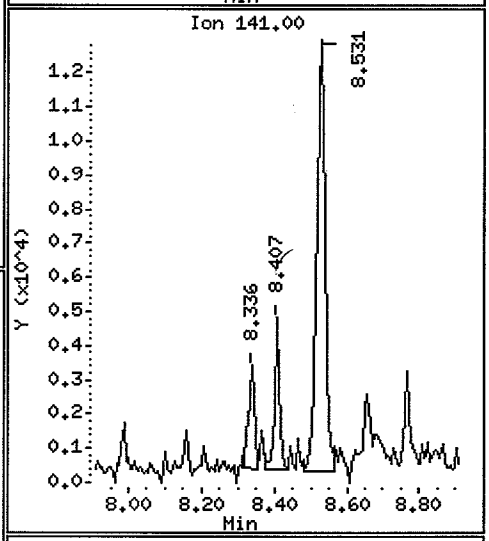


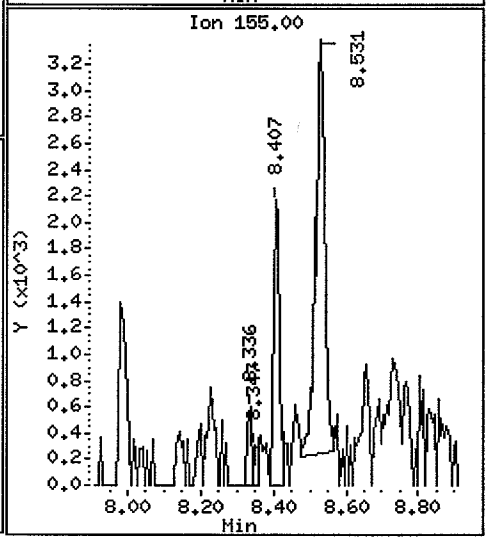












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

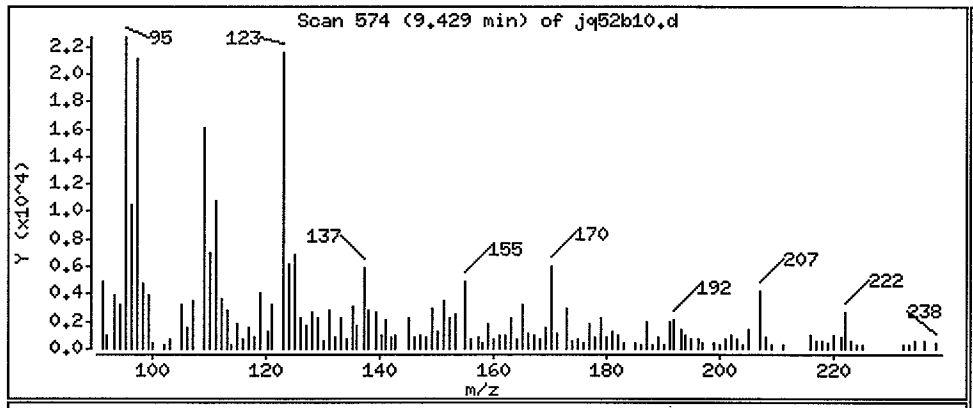
Operator: VTS

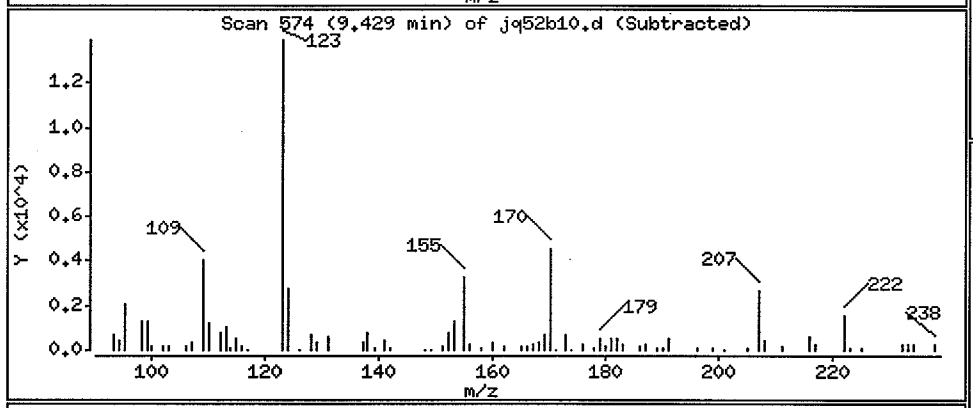
Column phase: ZB-5

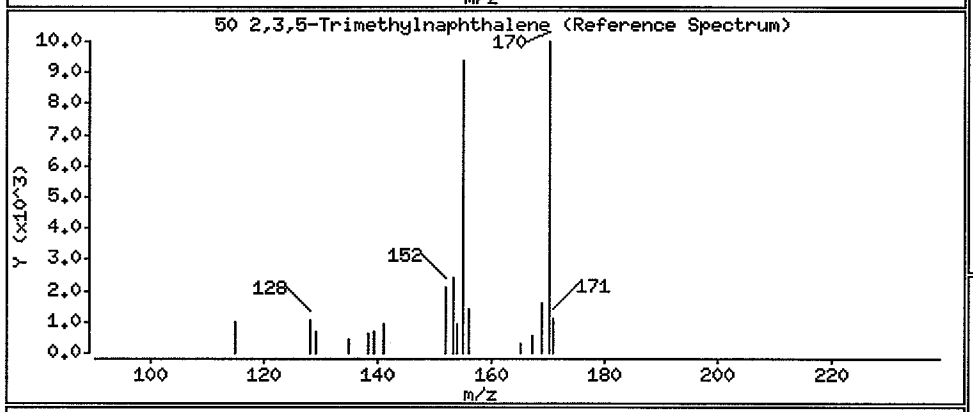
Column diameter: 0.25

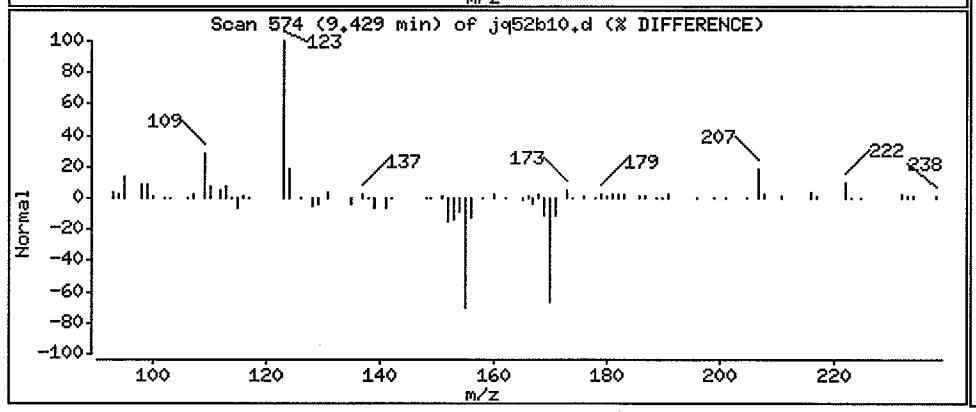
50 2,3,5-Trimethylnaphthalene

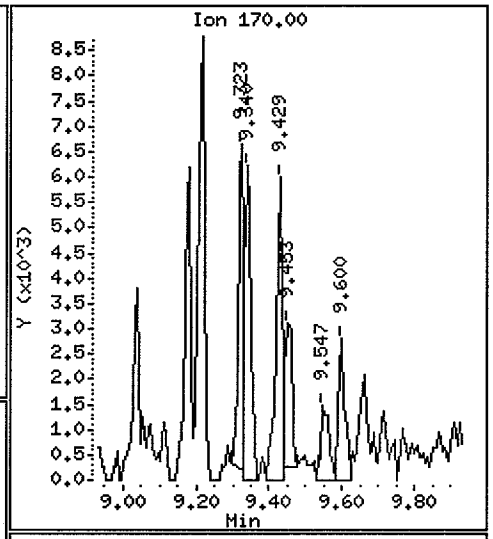
Concentration: 61.73 ug/kg

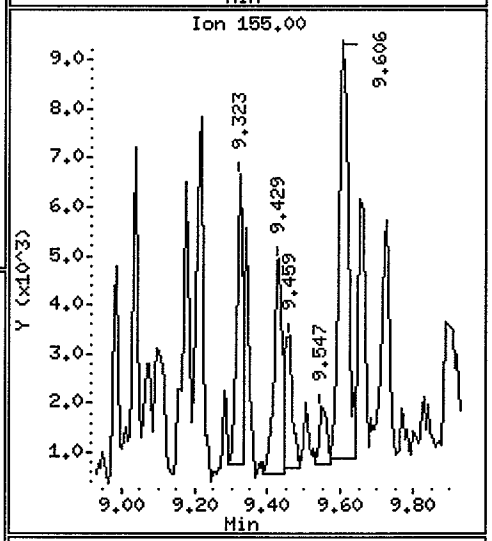


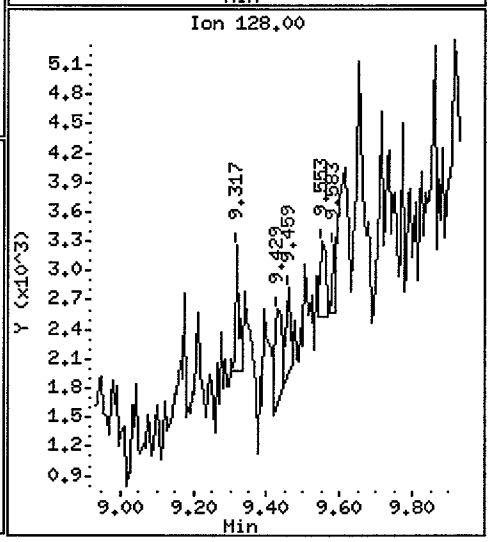












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

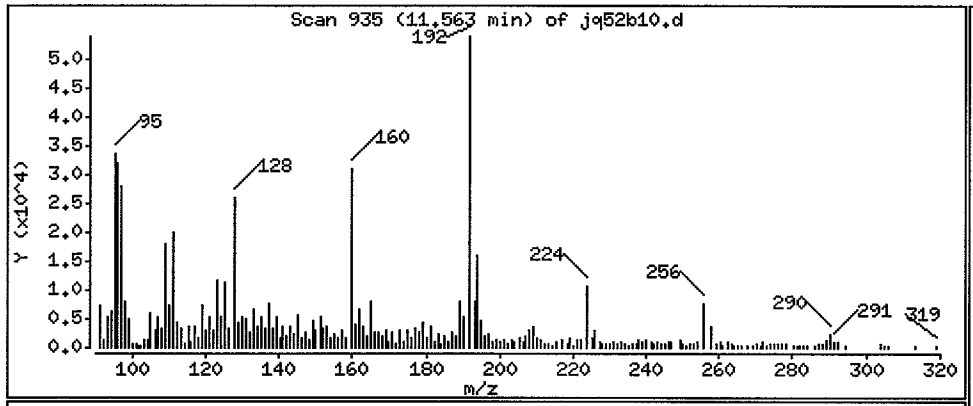
Operator: VTS

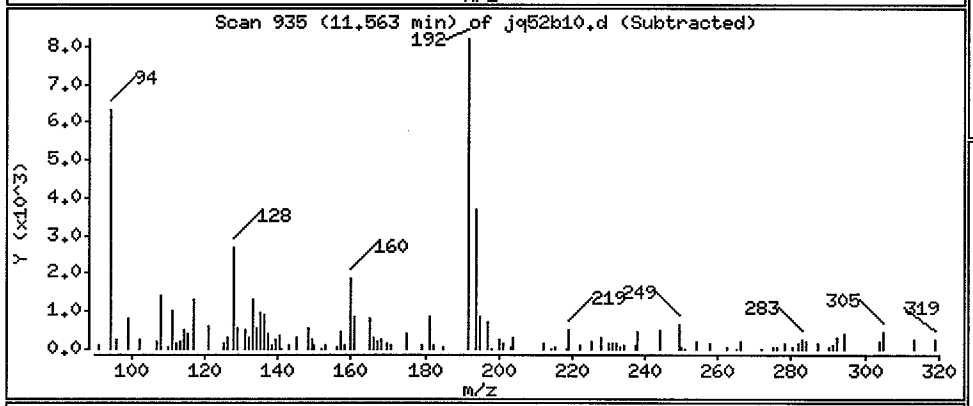
Column phase: ZB-5

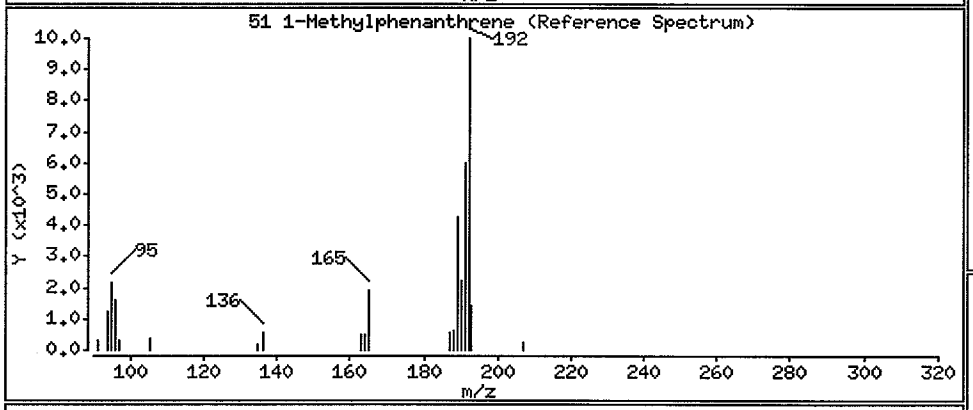
Column diameter: 0.25

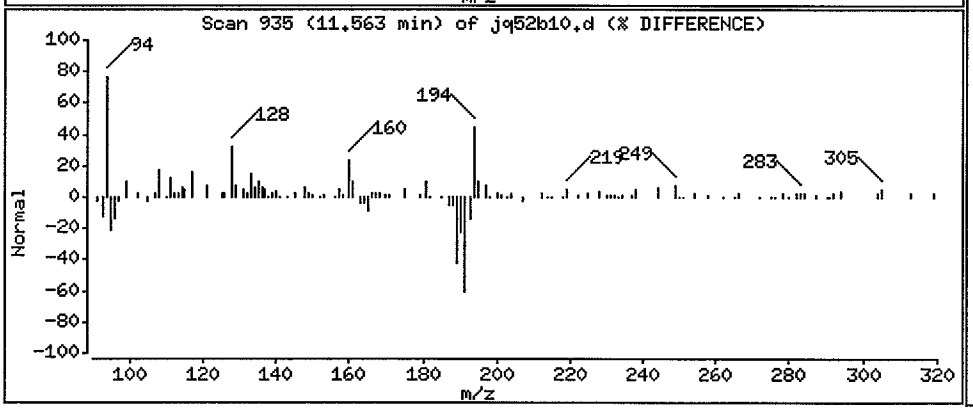
51 1-Methylphenanthrene

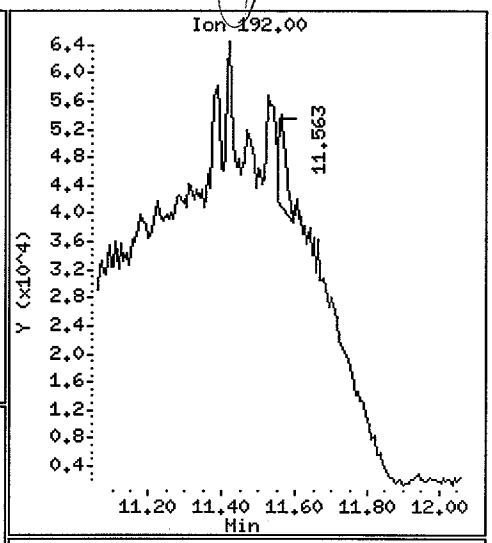
Concentration: 109.9 ug/kg

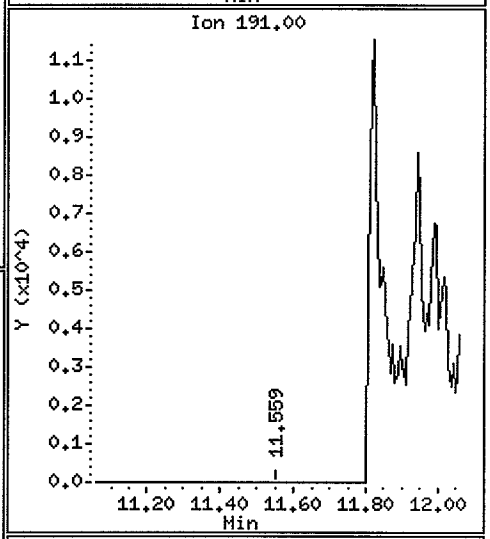


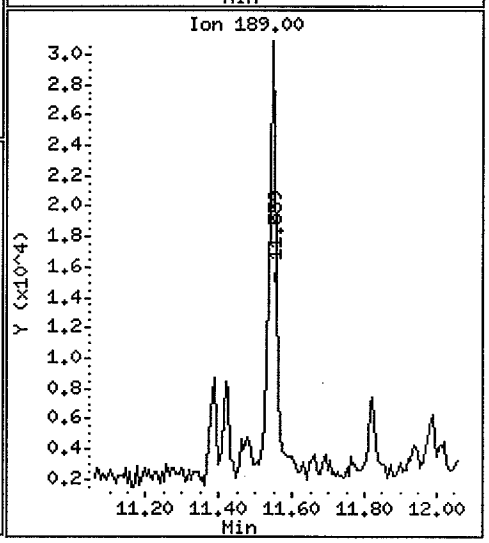












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

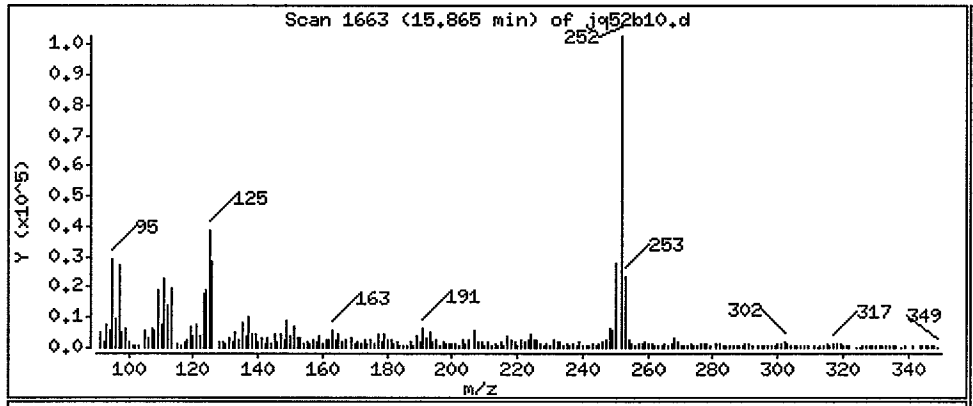
Operator: VTS

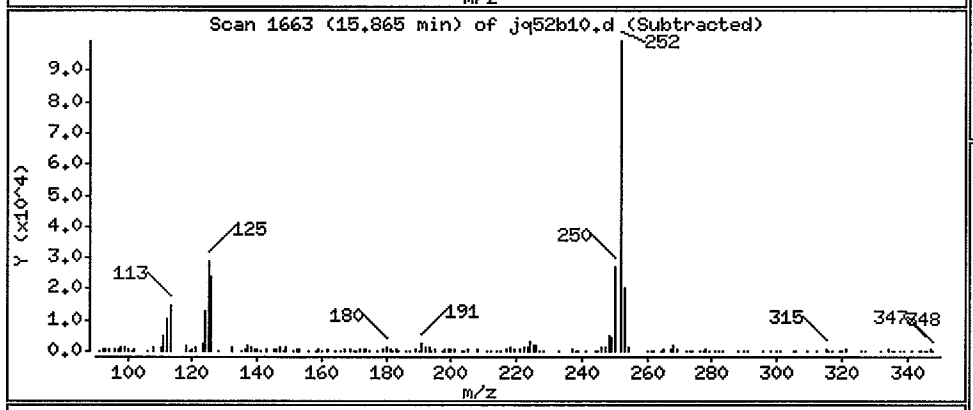
Column phase: ZB-5

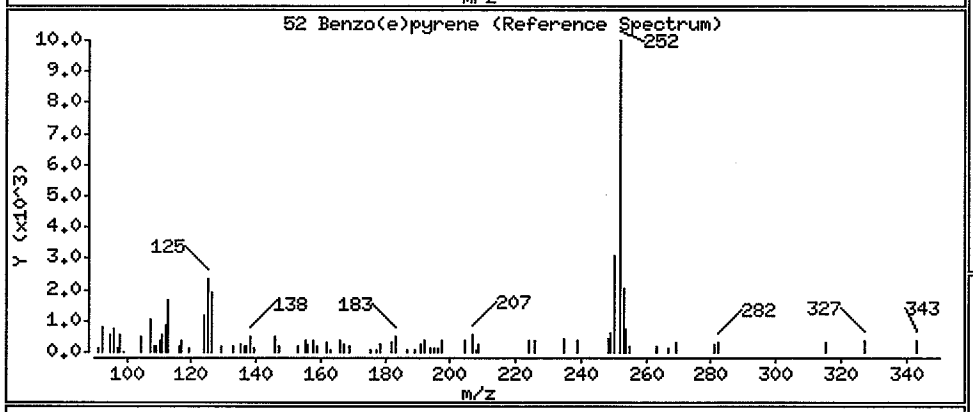
Column diameter: 0.25

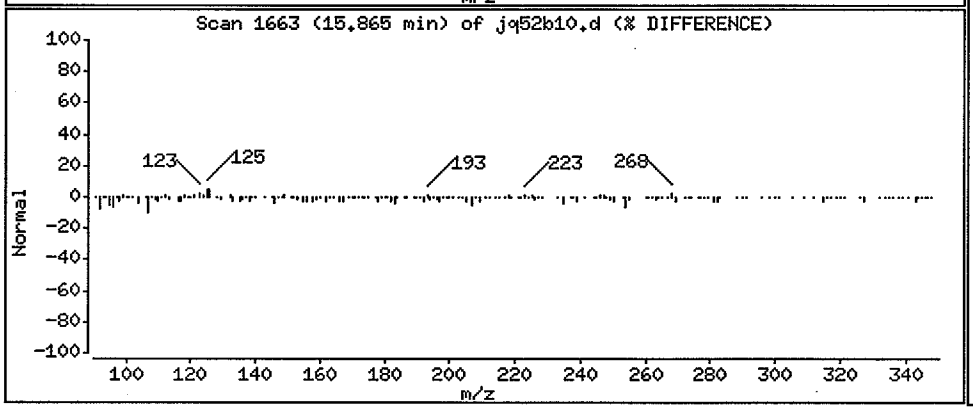
52 Benzo(e)pyrene

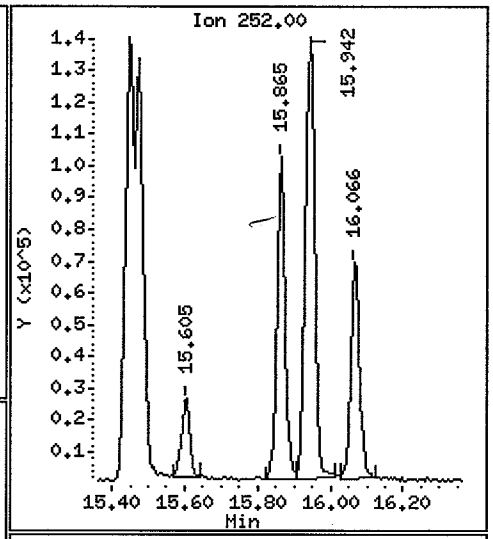
Concentration: 566.1 ug/kg

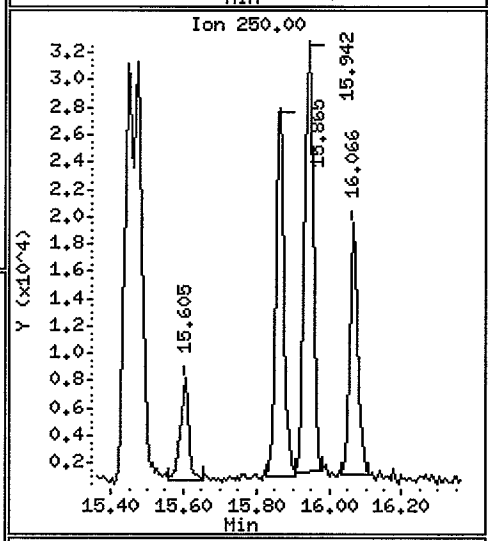


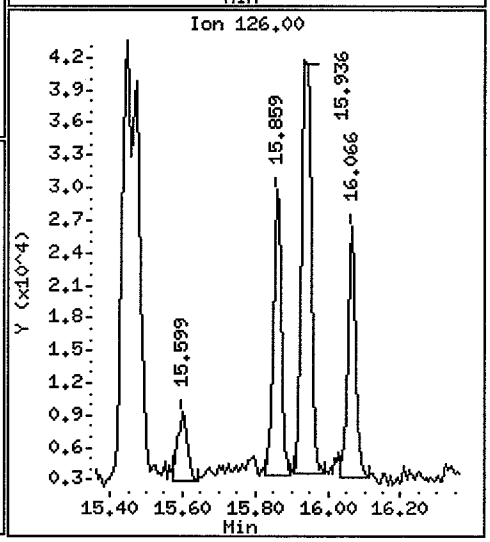












Data File: /chem3/nt1.i/20060808.b/jq52b10.d

Date : 08-AUG-2006 13:11

Client ID: T4-S3-03-C-DUP

Instrument: nt1.i

Sample Info: JQ52B,10

Volume Injected (uL): 1.0

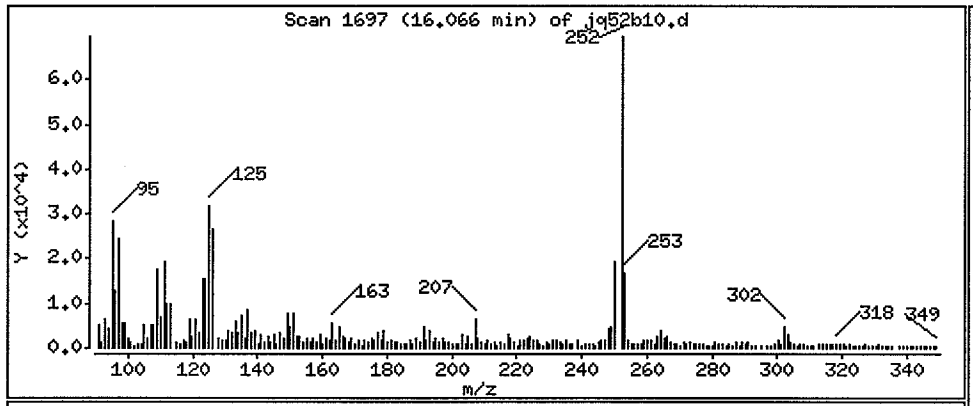
Operator: VTS

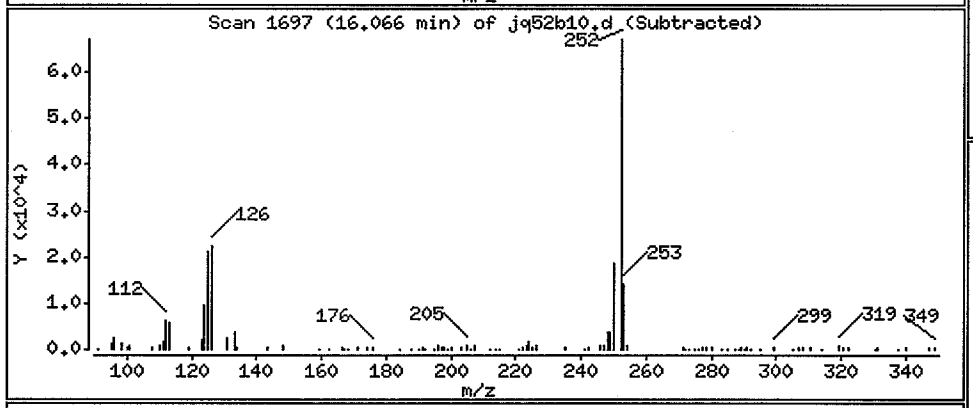
Column phase: ZB-5

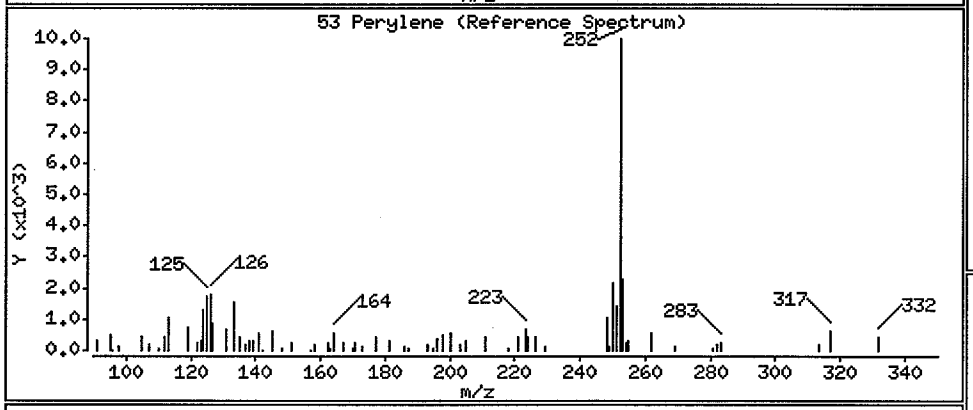
Column diameter: 0.25

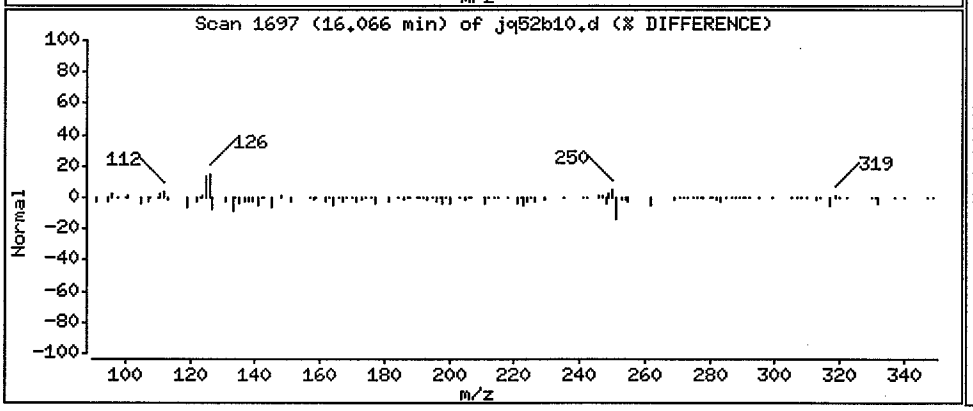
53 Perylene

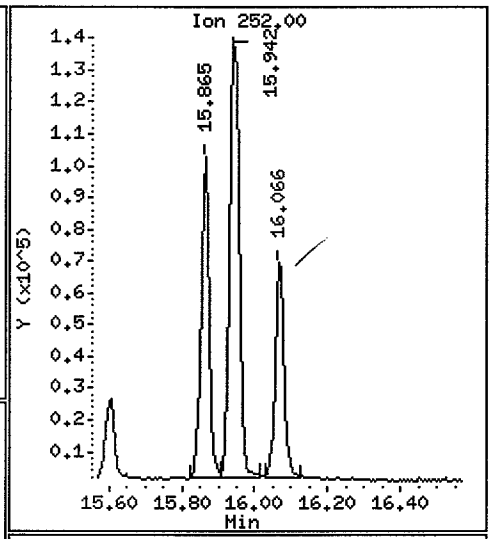
Concentration: 437.6 ug/kg

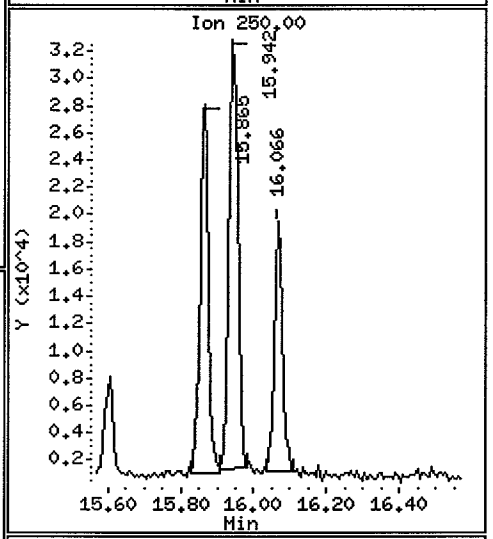


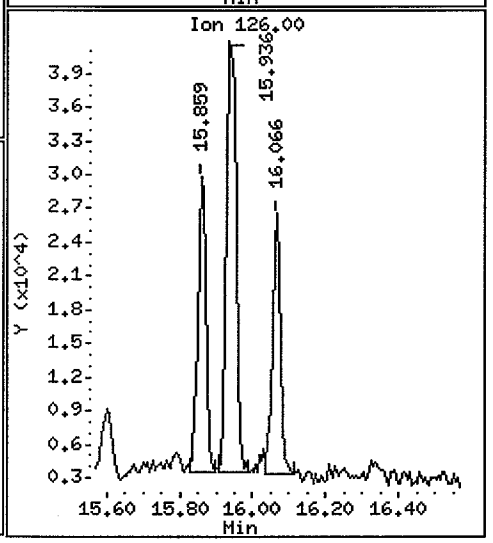












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-B414-02-A-DUP
SAMPLE

Lab Sample ID: JQ52C
LIMS ID: 06-13104
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 19:47
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 50.1%
pH: 6.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	48	< 48 U
91-57-6	2-Methylnaphthalene	48	< 48 U
90-12-0	1-Methylnaphthalene	48	< 48 U
208-96-8	Acenaphthylene	48	< 48 U
83-32-9	**Acenaphthene**	**48**	**120**
86-73-7	**Fluorene**	**48**	**48**
85-01-8	**Phenanthrene**	**48**	**420**
120-12-7	**Anthracene**	**48**	**81**
206-44-0	**Fluoranthene**	**48**	**980**
129-00-0	**Pyrene**	**48**	**920**
56-55-3	**Benzo(a)anthracene**	**48**	**660**
218-01-9	**Chrysene**	**48**	**840**
205-99-2	**Benzo(b)fluoranthene**	**48**	**1,100**
207-08-9	**Benzo(k)fluoranthene**	**48**	**840**
50-32-8	**Benzo(a)pyrene**	**48**	**1,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**48**	**660**
53-70-3	**Dibenz(a,h)anthracene**	**48**	**240**
191-24-2	**Benzo(g,h,i)perylene**	**48**	**770**
198-55-0	**Perylene**	**48**	**300**
92-52-4	Biphenyl	48	< 48 U
581-42-0	2,6-Dimethylnaphthalene	48	< 48 U
832-69-9	1-Methylphenanthrene	48	< 48 U
192-97-2	**Benzo(e)pyrene**	**48**	**630**
2245-38-7	2,3,5-Trimethylnaphthalene	48	< 48 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracen	79.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060808.b/jq52c10.d
Lab Smp Id: JQ52C Client Smp ID: T4-B414-02-A-DUP
Inj Date : 08-AUG-2006 19:47
Operator : VTS Inst ID: nt1.i
Smp Info : JQ52C,10
Misc Info : 06-13104
Comment : 1ul Injection
Method : /chem3/nt1.i/20060808.b/simpna.m
Meth Date : 09-Aug-2006 11:00 yev 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	21.00000	Weight of sample extracted (g)
M	50.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 1 Naphthalene-d8	136	6.883	6.884	(1.000)	282374	2.00000	
2 Naphthalene	128	Compound Not Detected.					
$ 3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	16032	0.22043	105.2
4 2-Methylnaphthalene	142	Compound Not Detected.					
5 1-Methylnaphthalene	142	Compound Not Detected.					
7 Acenaphthylene	152	Compound Not Detected.					
* 8 Acenaphthene-d10	164	8.940	8.946	(1.000)	147361	2.00000	
9 Acenaphthene	153	8.982	8.982	(1.005)	18488	0.25551	121.9
10 Dibenzofuran	168	Compound Not Detected.					
11 Fluorene	166	9.596	9.596	(1.073)	8446	0.10180	48.57
* 15 Phenanthrene-d10	188	10.755	10.755	(1.000)	235117	2.00000	
16 Phenanthrene	178	10.784	10.784	(1.003)	106979	0.88645	423.0
17 Anthracene	178	10.843	10.843	(1.008)	20553	0.17042	81.32
19 Fluoranthene	202	12.279	12.280	(1.142)	252642	2.05246	979.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
20 Pyrene	202	12.569	12.569	(0.893)	252412	1.93775	924.6
22 Benzo(a)anthracene	228	14.047	14.047	(0.998)	168289	1.37764	657.3
* 23 Chrysene-d12	240	14.070	14.070	(1.000)	202857	2.00000	
24 Chrysene	228	14.100	14.100	(1.002)	199095	1.76702	843.1
28 Benzo(b)fluoranthene	252	15.441	15.441	(0.964)	262761	2.25063	1074
29 Benzo(k)fluoranthene	252	15.471	15.477	(0.966)	218832	1.75816	838.9
30 Benzo(a)pyrene	252	15.938	15.938	(0.995)	244811	2.15197	1027
* 31 Perylene-d12	264	16.021	16.021	(1.000)	206865	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.977	17.989	(1.122)	181182	1.38492	660.8
$ 32 Dibenz(a,h)anthrancene-d14	292	17.906	17.912	(1.118)	18729	0.23658	112.9
34 Dibenz(a,h)anthracene	278	17.977	17.977	(1.122)	53124	0.49707	237.2
35 Benzo(g,h,i)perylene	276	18.562	18.568	(1.159)	176473	1.62275	774.3
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	15.855	15.861	(0.990)	166814	1.32471	632.1
53 Perylene	252	16.062	16.068	(1.003)	73276	0.61975	295.7

UTS

8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq52c10.d
Lab Smp Id: JQ52C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13104

Calibration Date: 08-AUG-2006
Calibration Time: 09:27
Client Smp ID: T4-B414-02-A-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	260380	130190	520760	282374	8.45
8 Acenaphthene-d10	135690	67845	271380	147361	8.60
15 Phenanthrene-d10	210931	105466	421862	235117	11.47
23 Chrysene-d12	190595	95298	381190	202857	6.43
31 Perylene-d12	193807	96904	387614	206865	6.74

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	8.94	-0.07
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.07	13.57	14.57	14.07	0.00
31 Perylene-d12	16.02	15.52	16.52	16.02	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

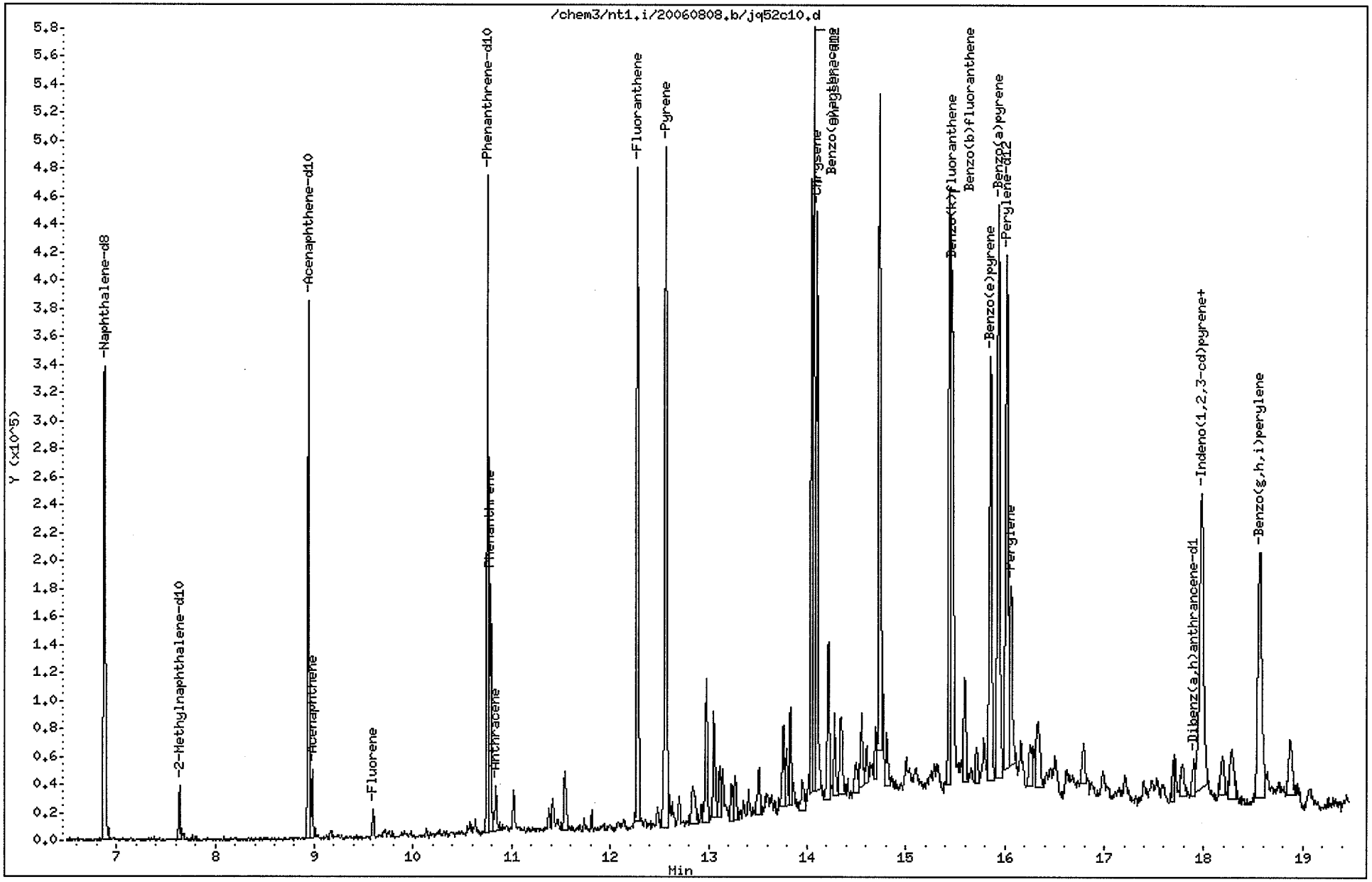
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52C
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13104

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-B414-02-A-DUP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	143.1	105.2	73.48	32-97
$ 32 Dibenz(a,h)anthran	143.1	112.9	78.86	21-105

Data File: /chem3/nt1.i/20060808.b/jq52c10.d
Date : 08-AUG-2006 19:47
Client ID: T4-B414-02-A-DUP
Sample Info: JQ52C,10
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0171

Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

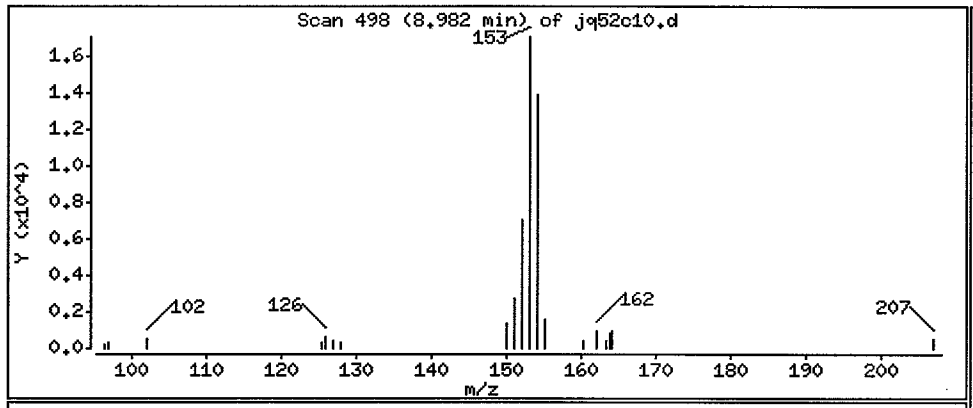
Operator: VTS

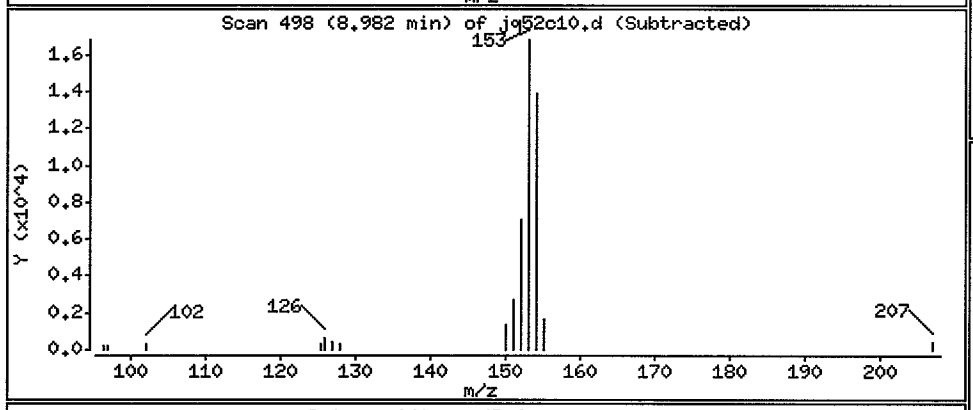
Column phase: ZB-5

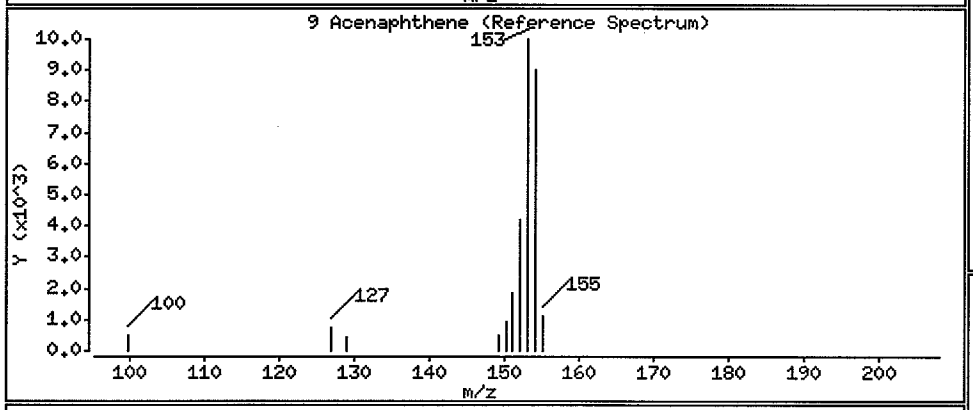
Column diameter: 0.25

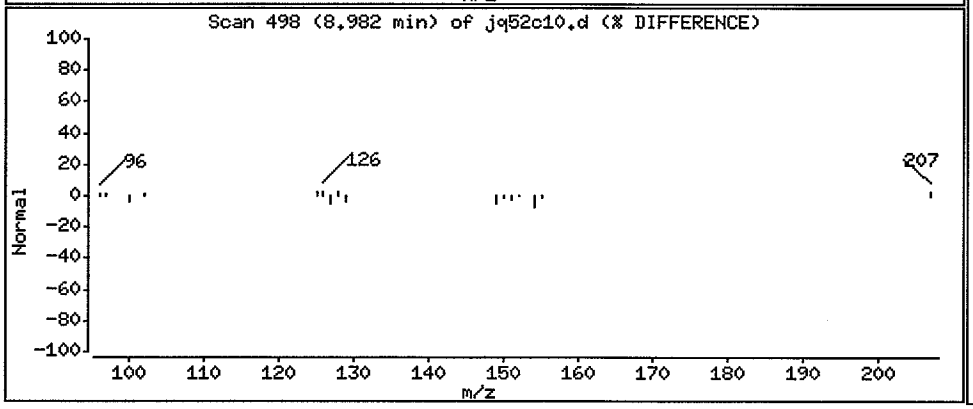
9 Acenaphthene

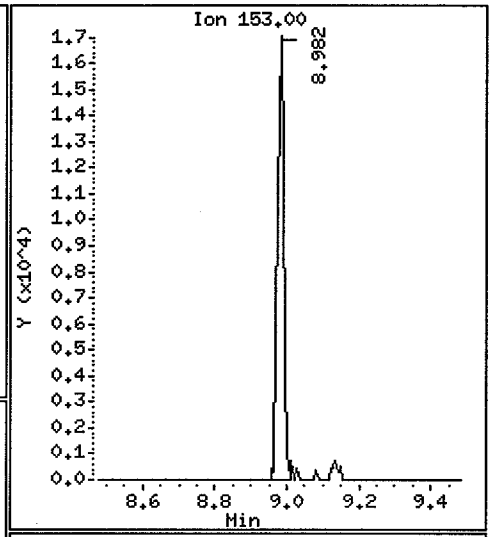
Concentration: 121.9 ug/kg

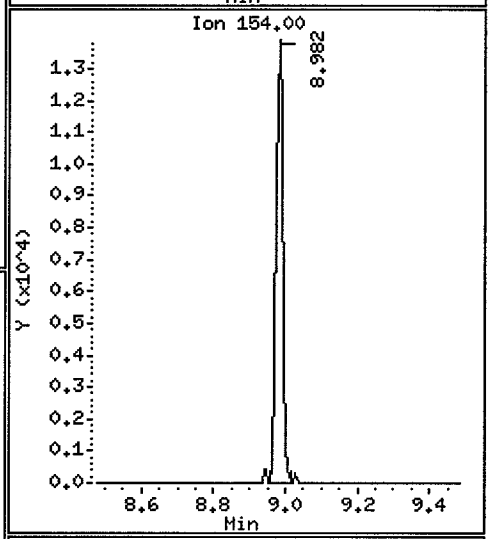


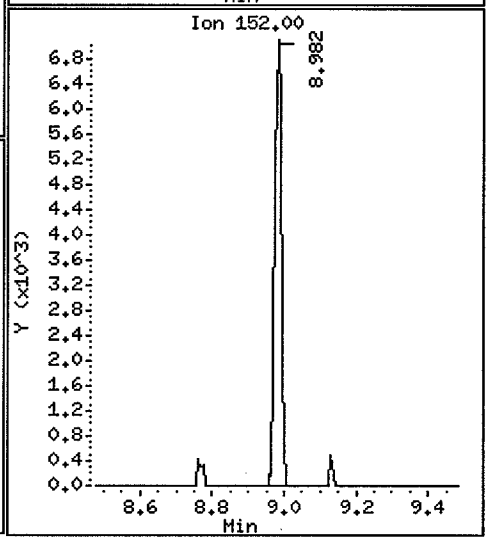












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

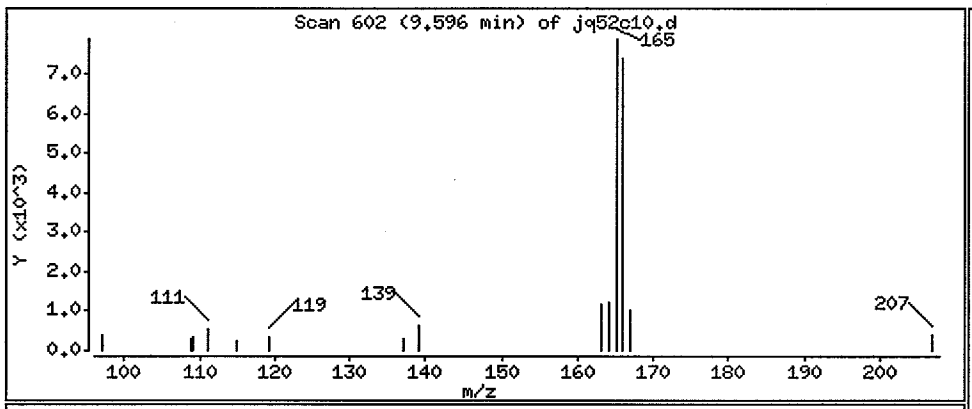
Operator: VTS

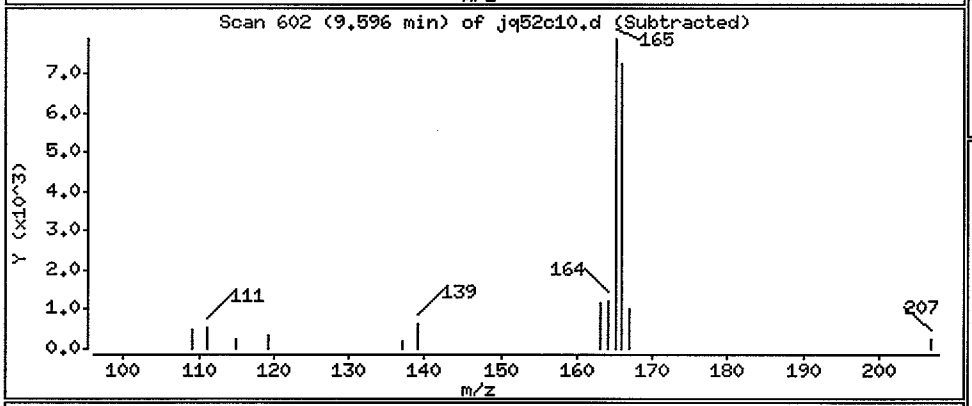
Column phase: ZB-5

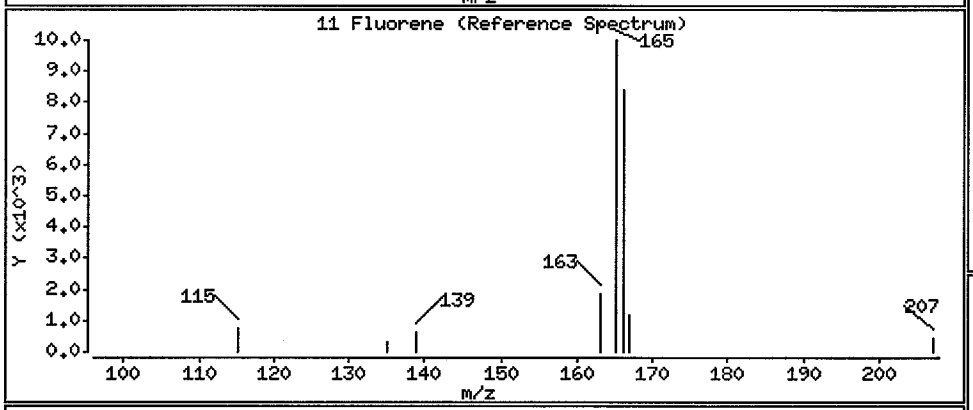
Column diameter: 0.25

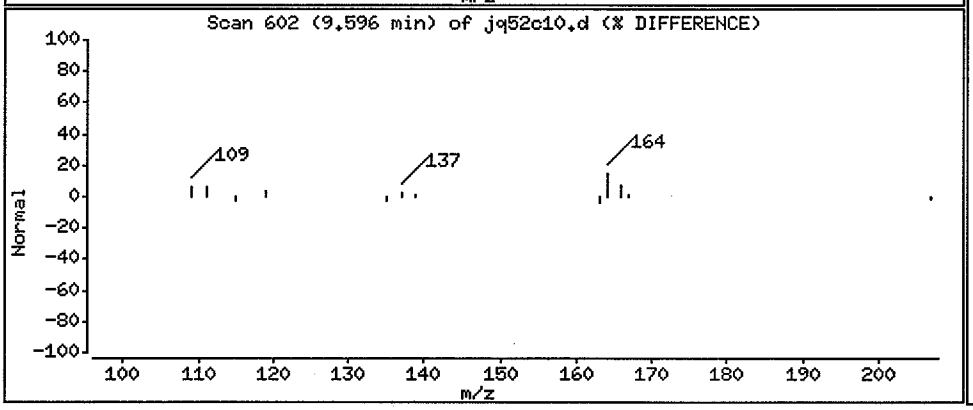
11 Fluorene

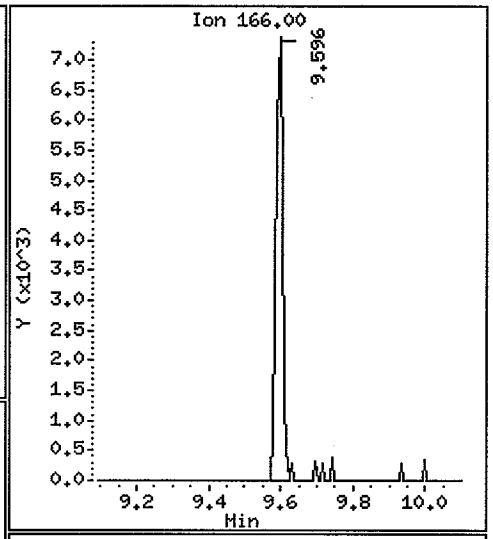
Concentration: 48.57 ug/kg

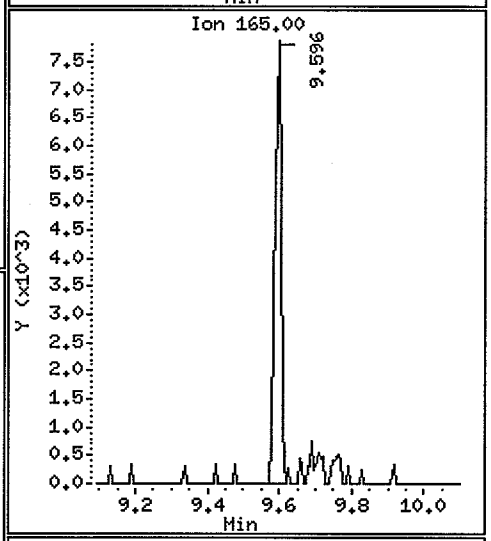


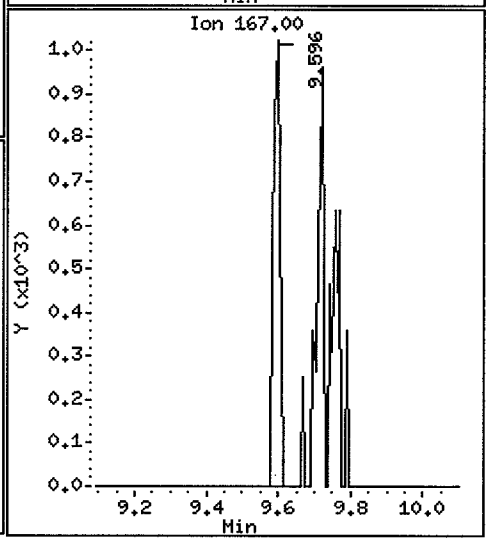












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

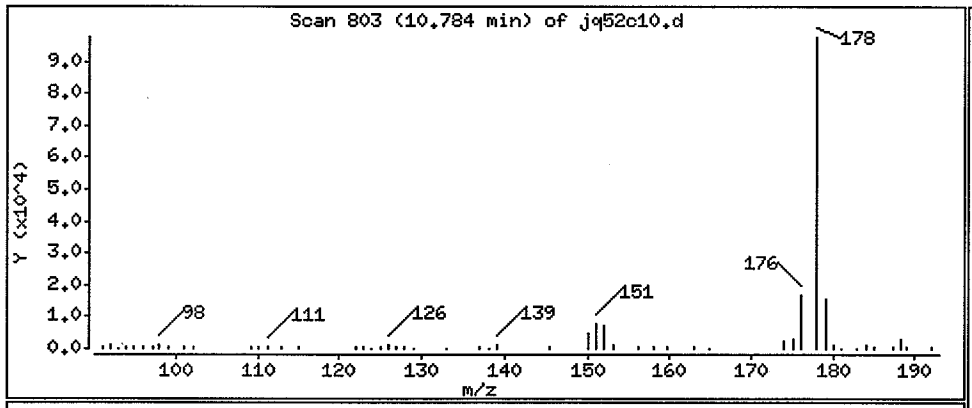
Operator: VTS

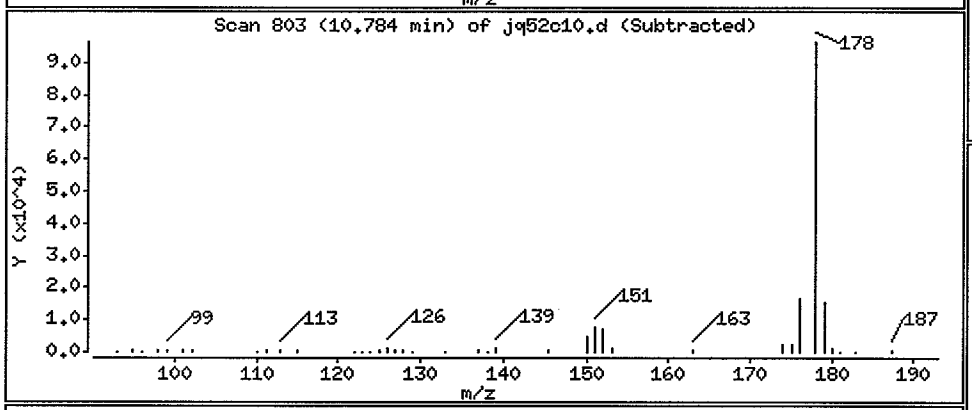
Column phase: ZB-5

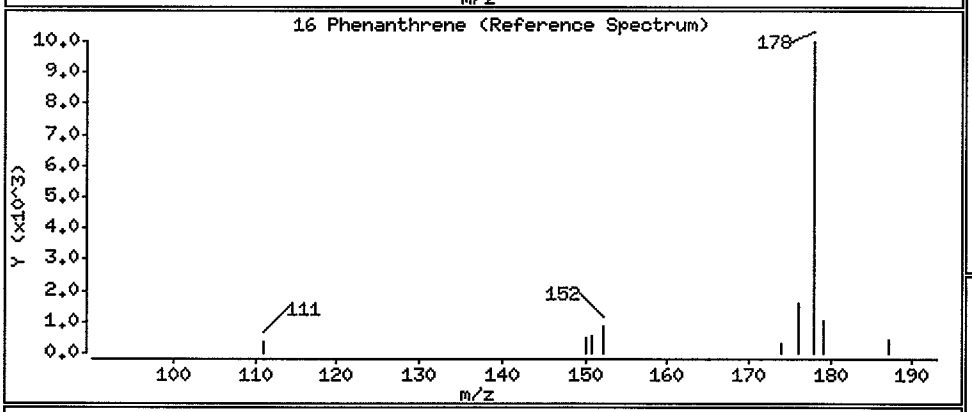
Column diameter: 0.25

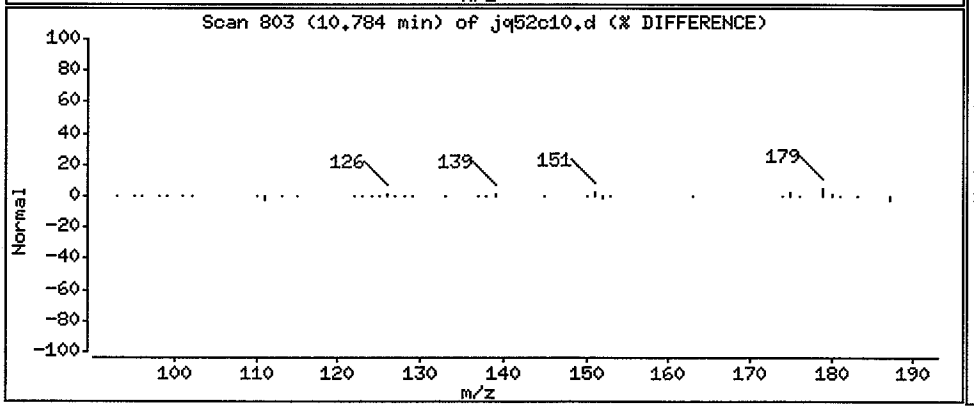
16 Phenanthrene

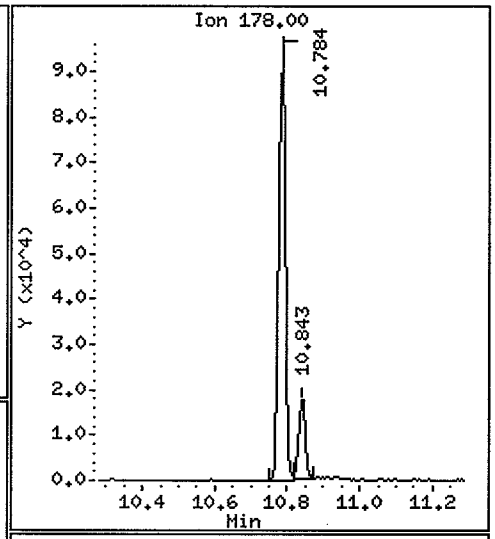
Concentration: 423.0 ug/kg

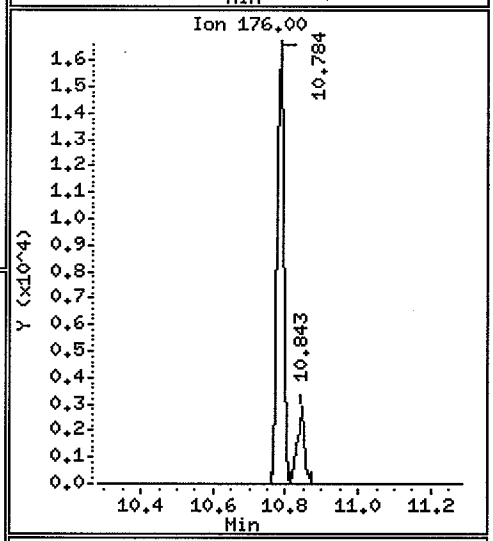


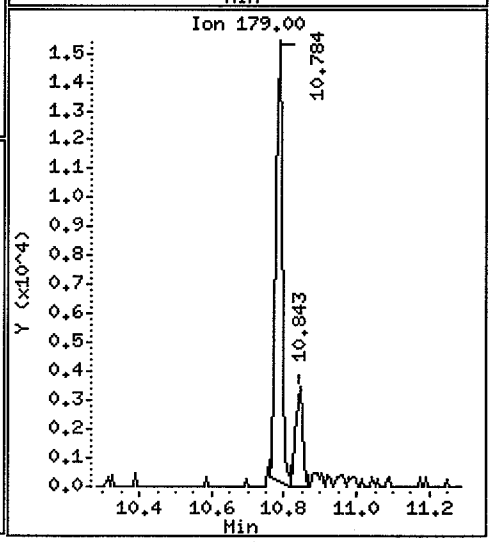












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

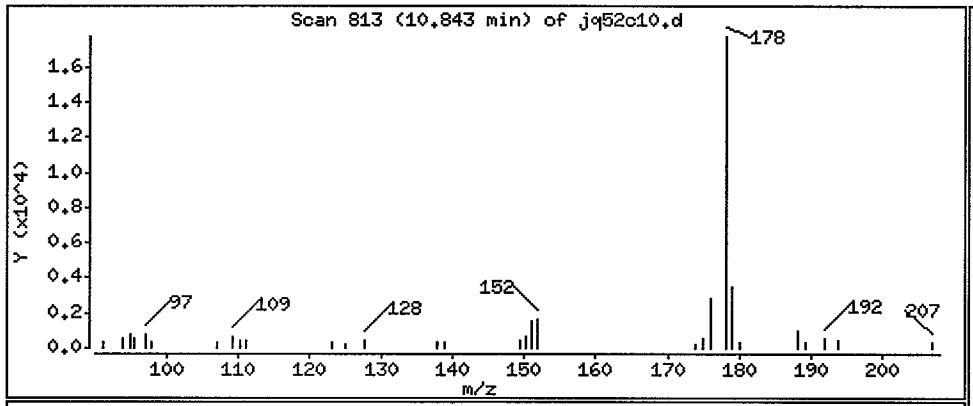
Operator: VTS

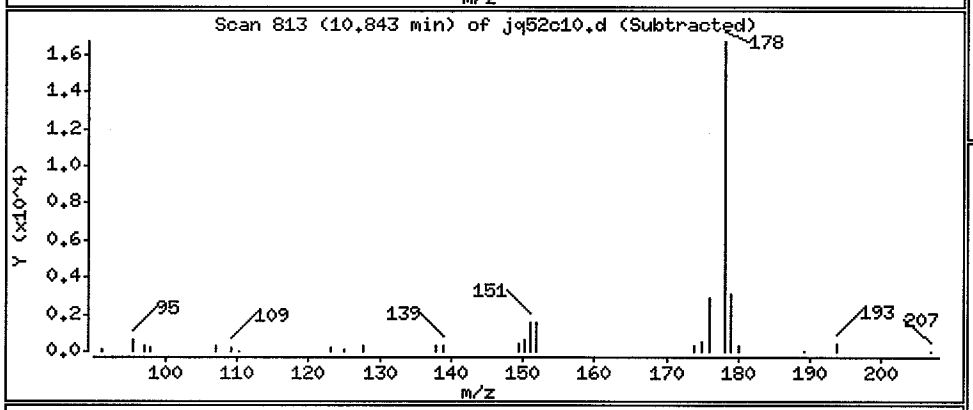
Column phase: ZB-5

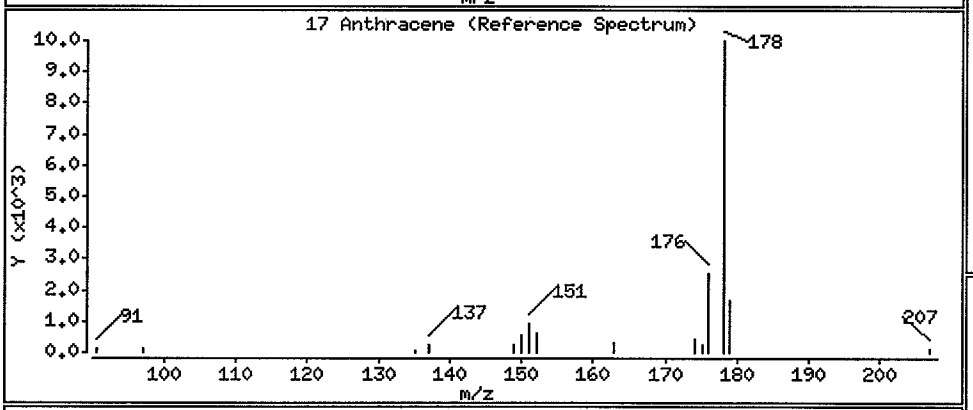
Column diameter: 0.25

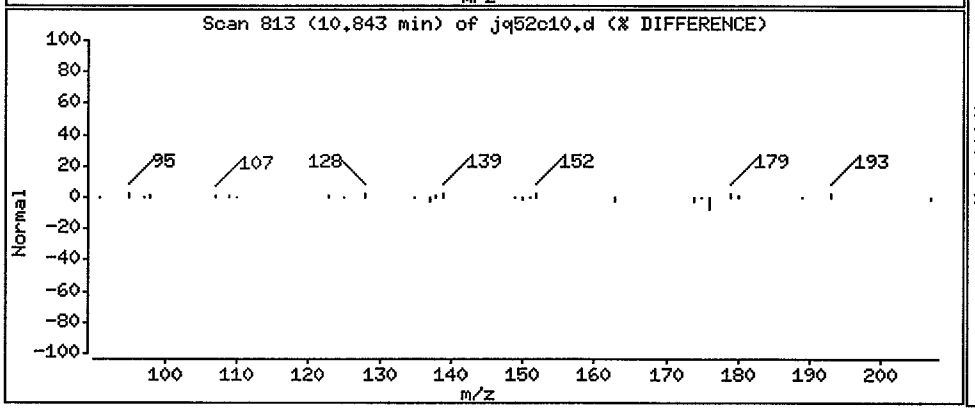
17 Anthracene

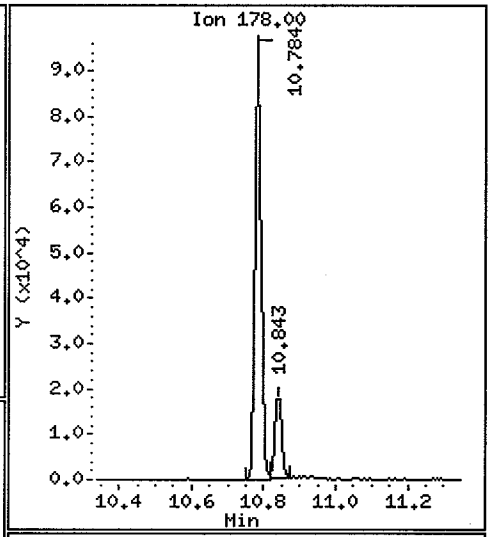
Concentration: 81.32 ug/kg

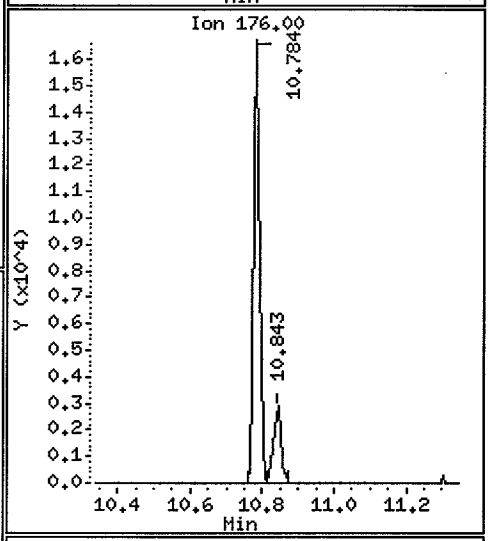


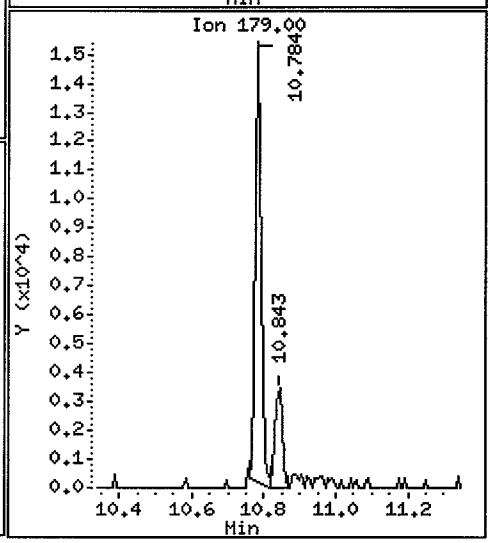












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

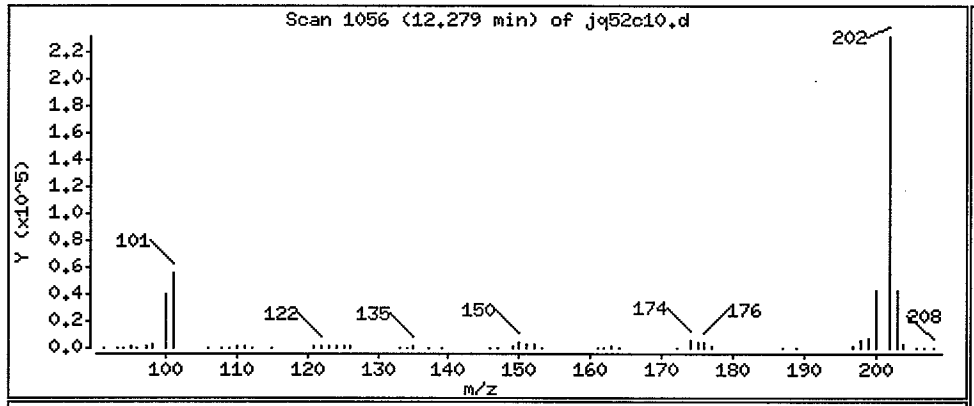
Operator: VTS

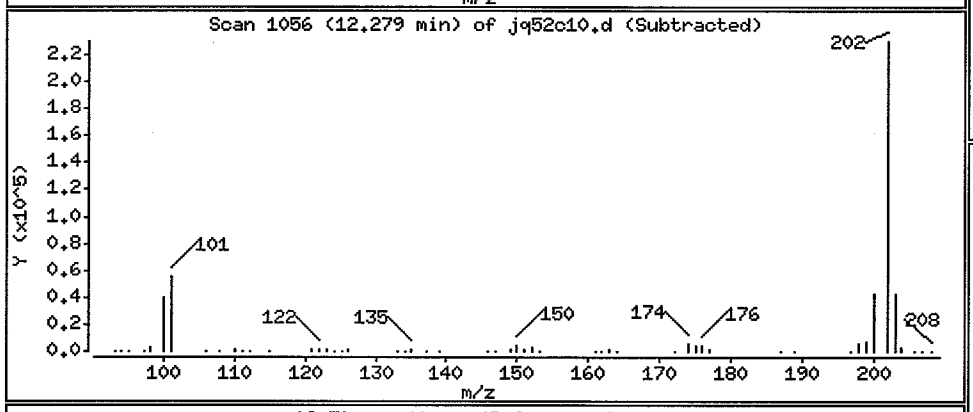
Column phase: ZB-5

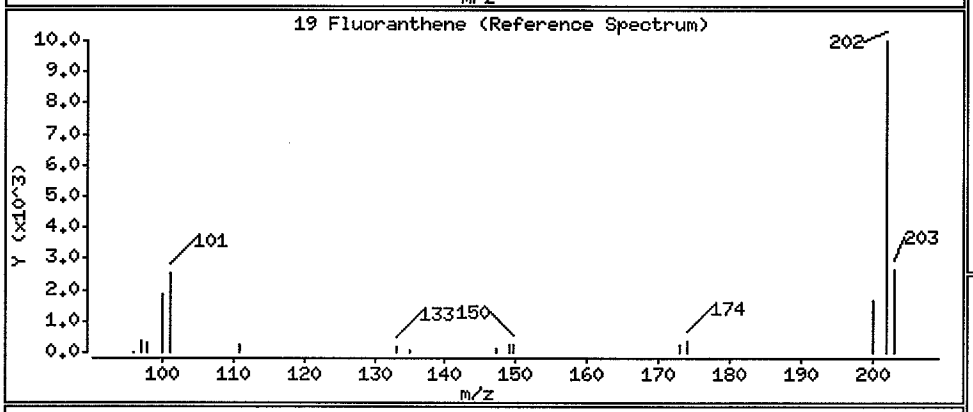
Column diameter: 0.25

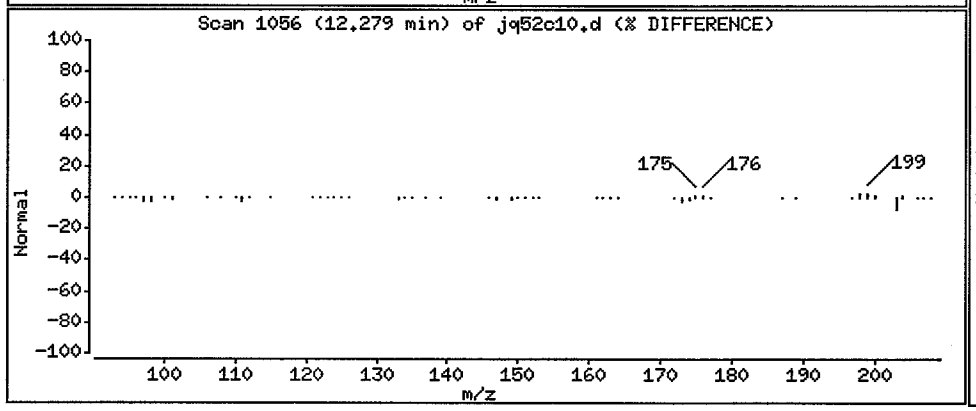
19 Fluoranthene

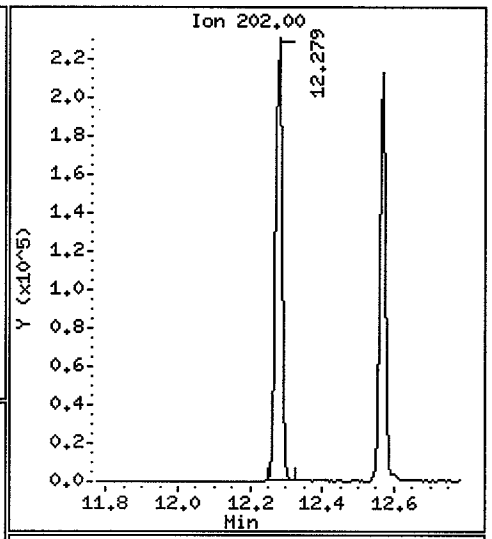
Concentration: 979.3 ug/kg

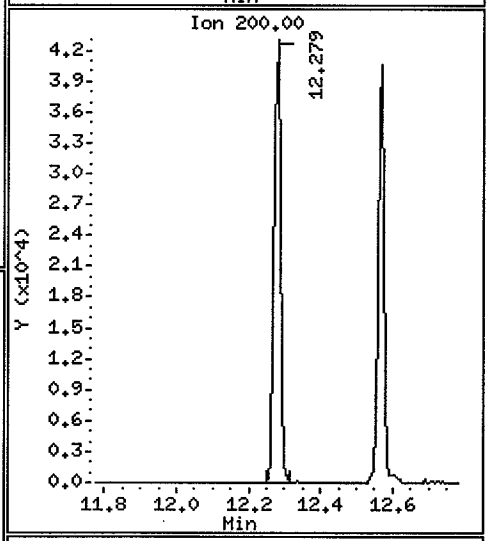


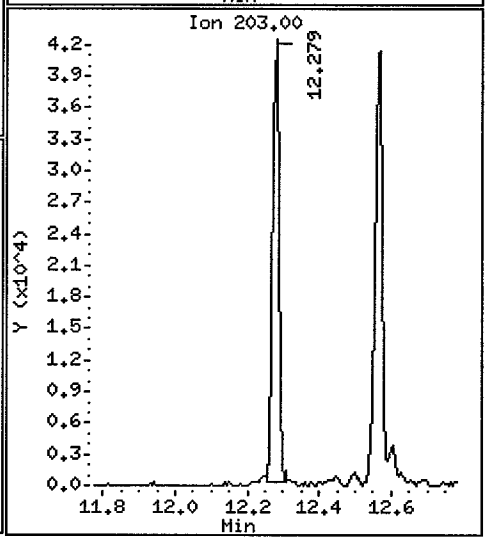












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

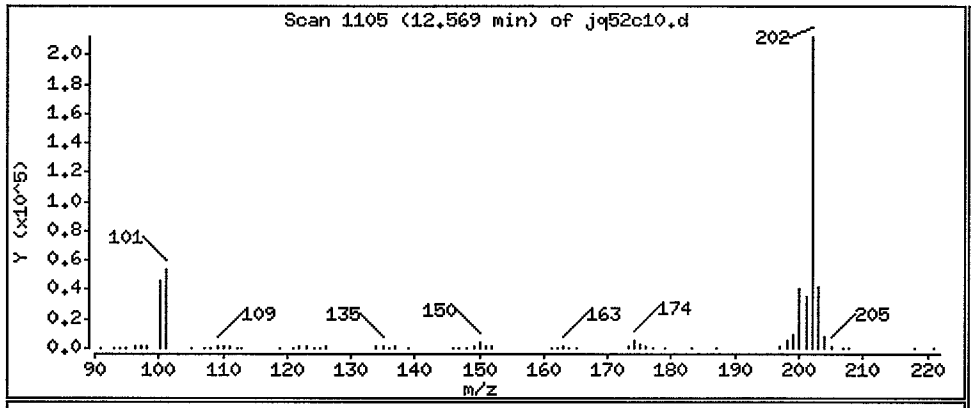
Operator: VTS

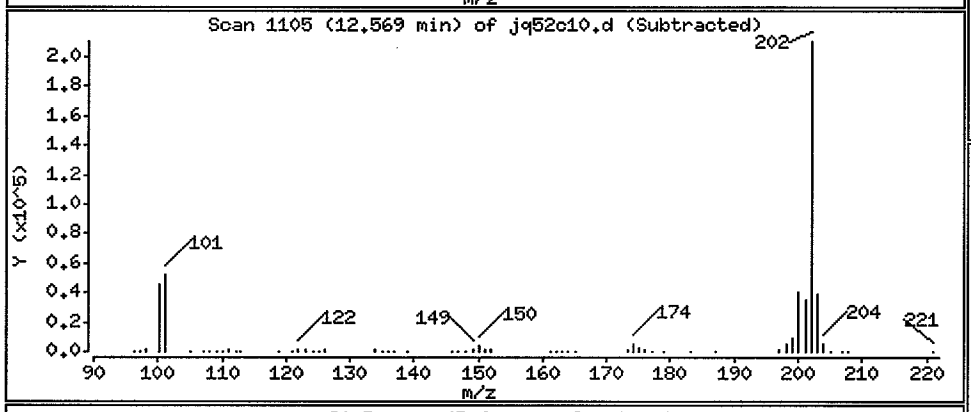
Column phase: ZB-5

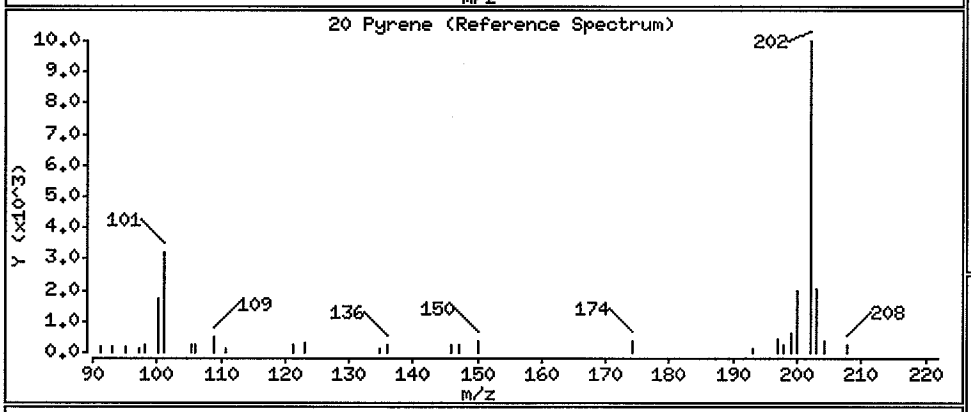
Column diameter: 0.25

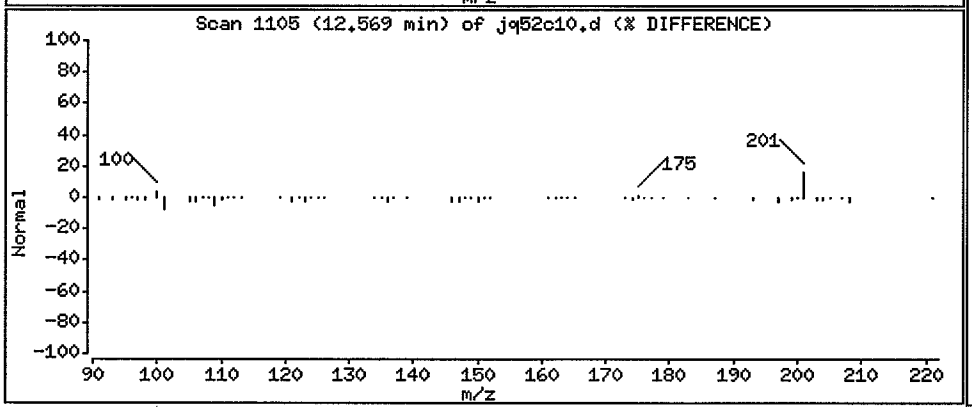
20 Pyrene

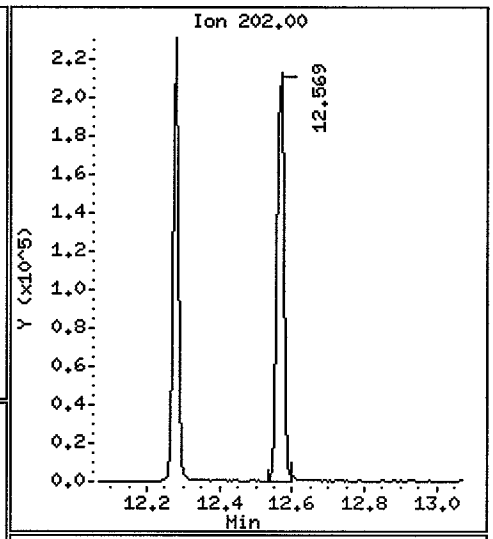
Concentration: 924.6 ug/kg

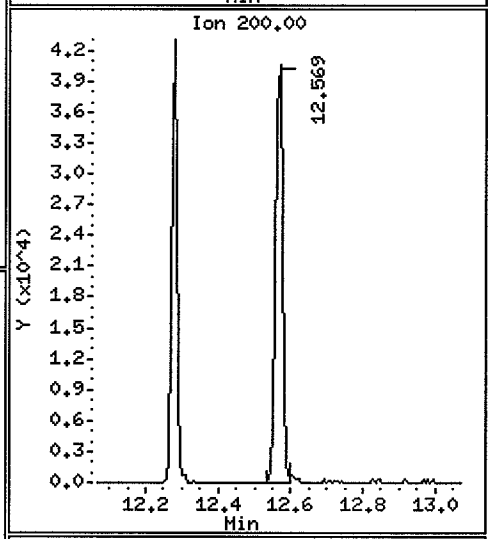


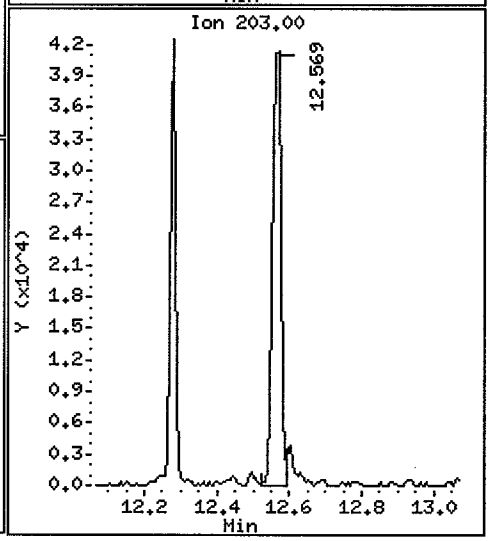












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

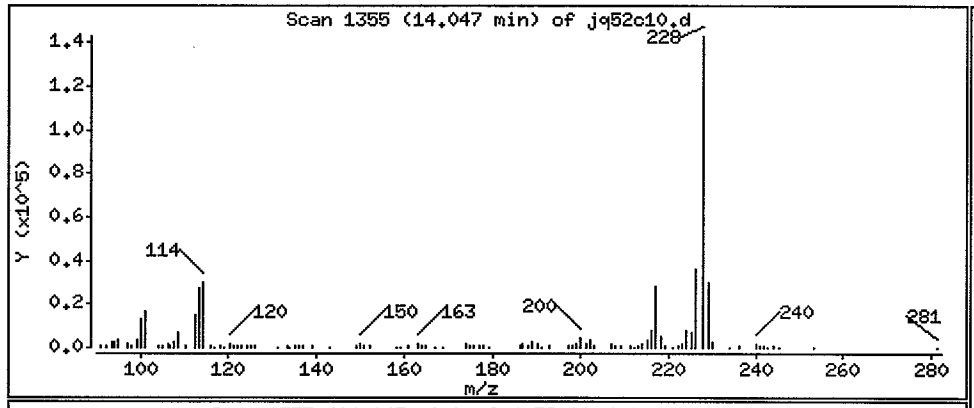
Operator: VTS

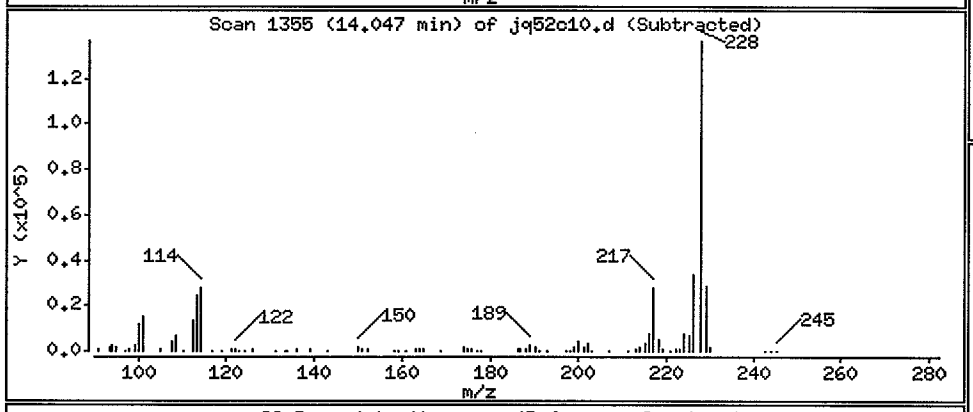
Column phase: ZB-5

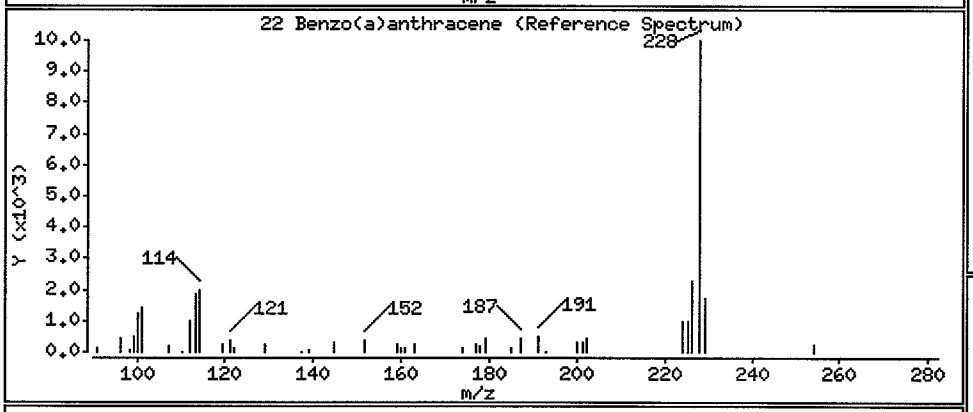
Column diameter: 0.25

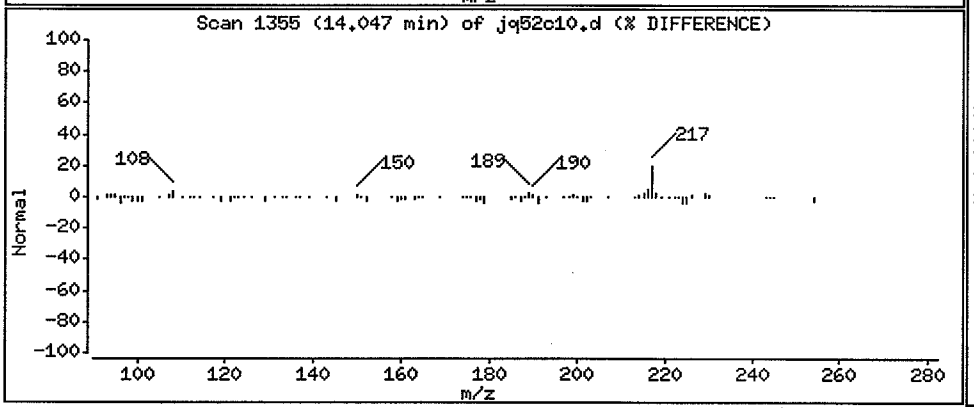
22 Benzo(a)anthracene

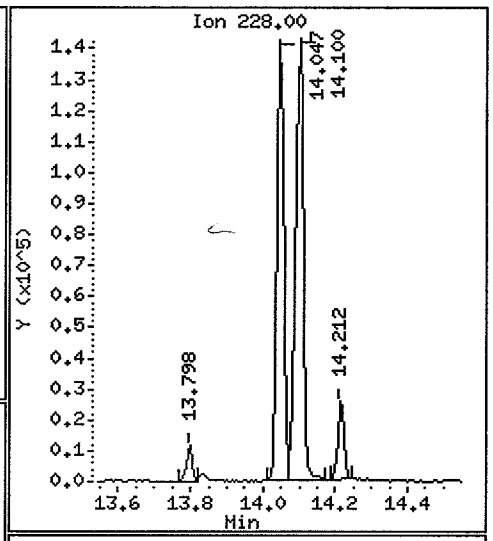
Concentration: 657.3 ug/kg

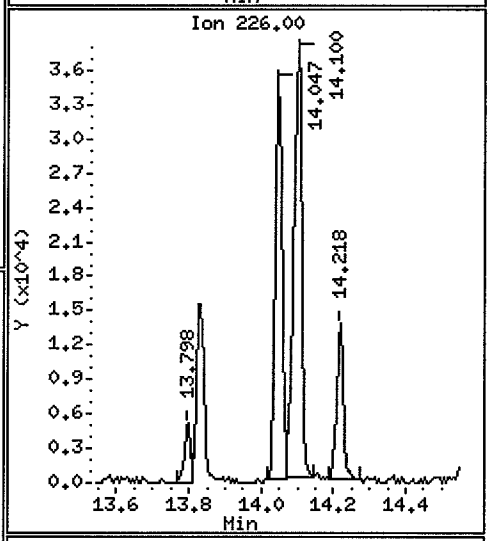


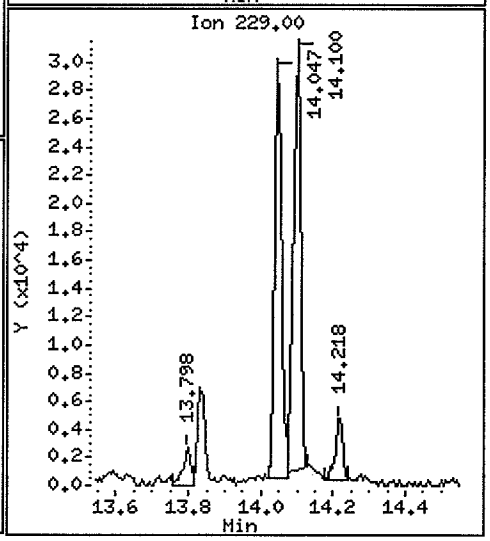












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

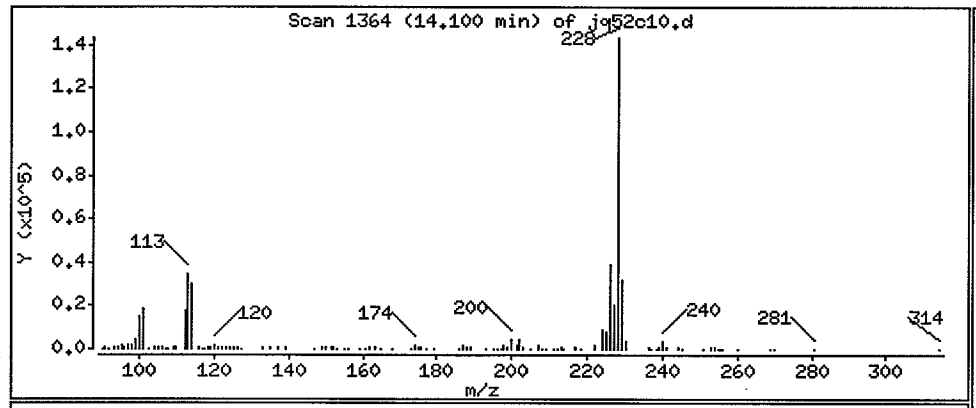
Operator: VTS

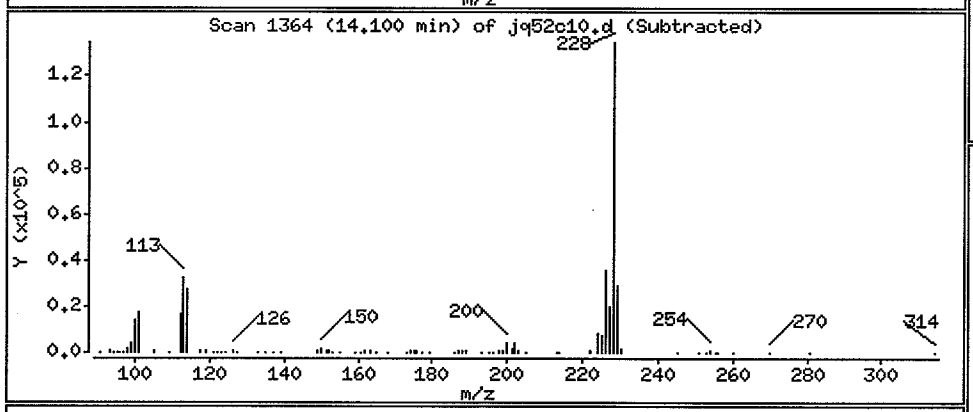
Column phase: ZB-5

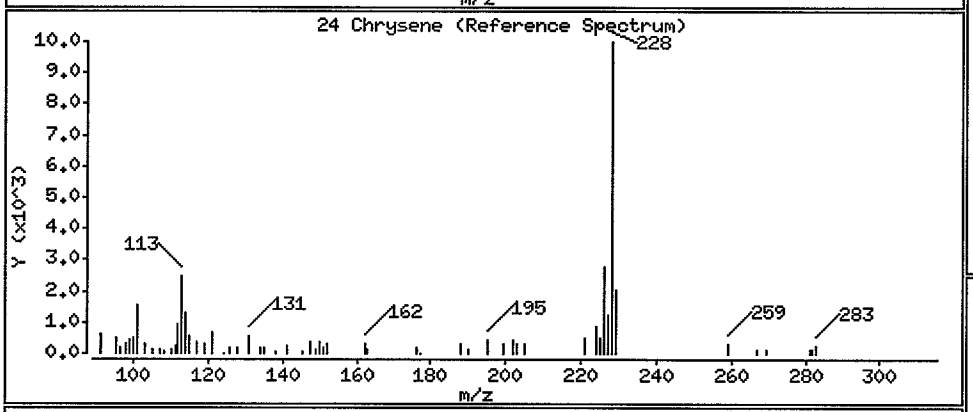
Column diameter: 0.25

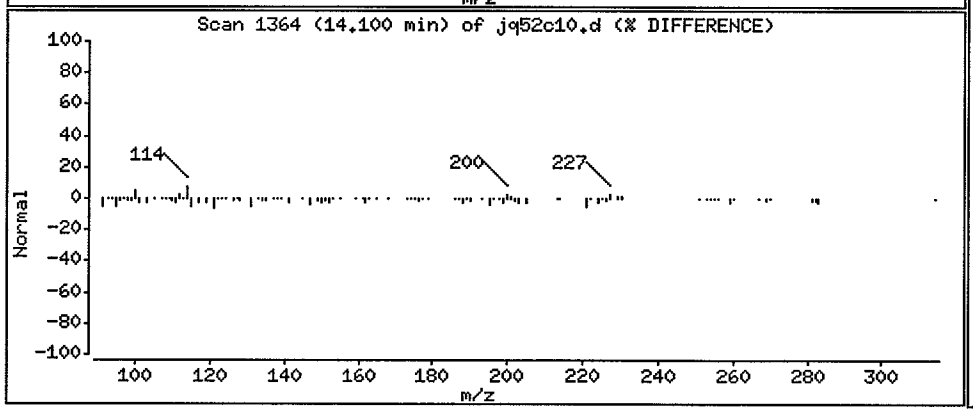
24 Chrysene

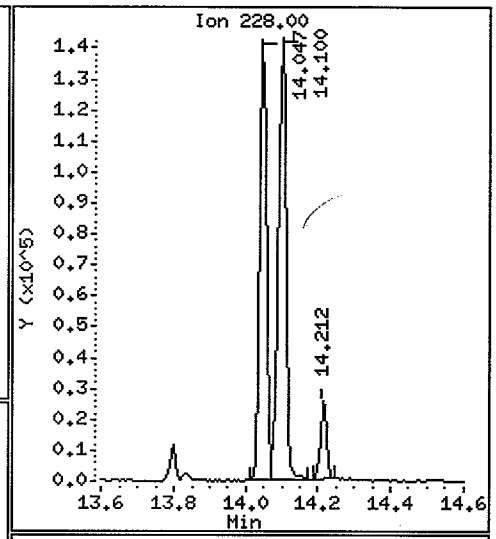
Concentration: 843.1 ug/kg

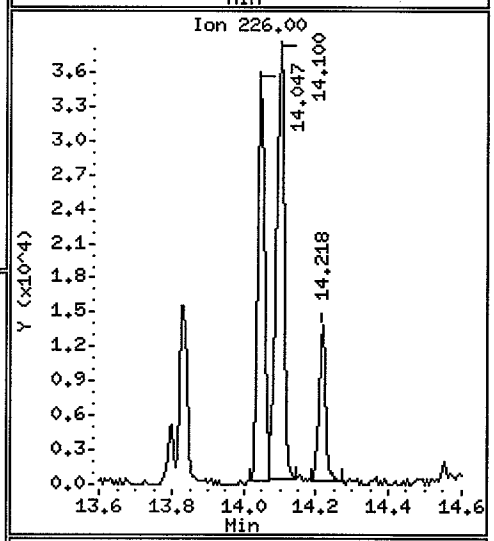


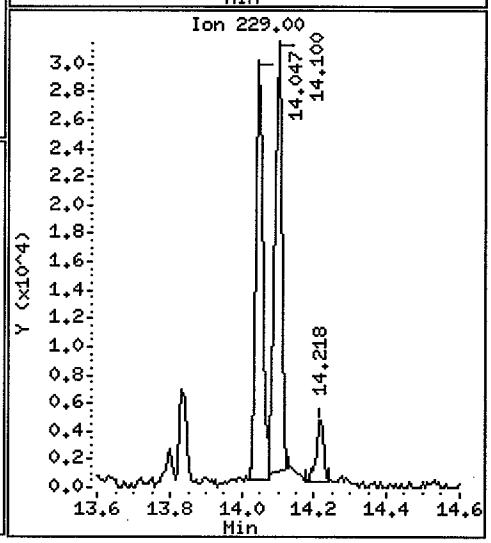












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

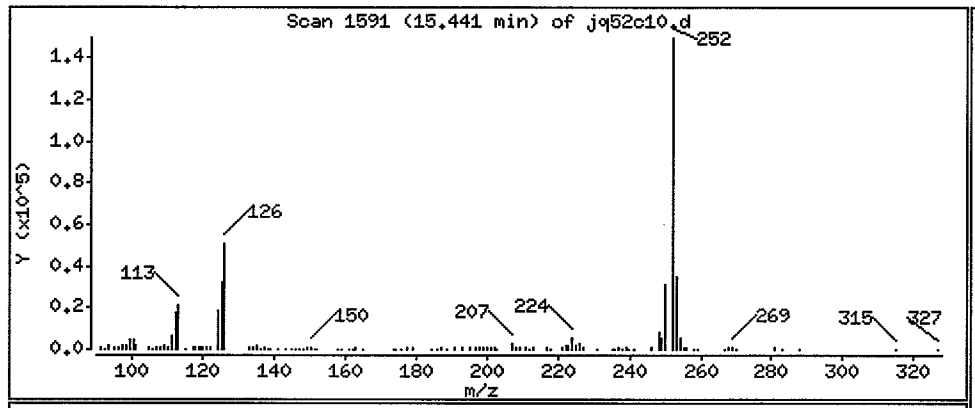
Operator: VTS

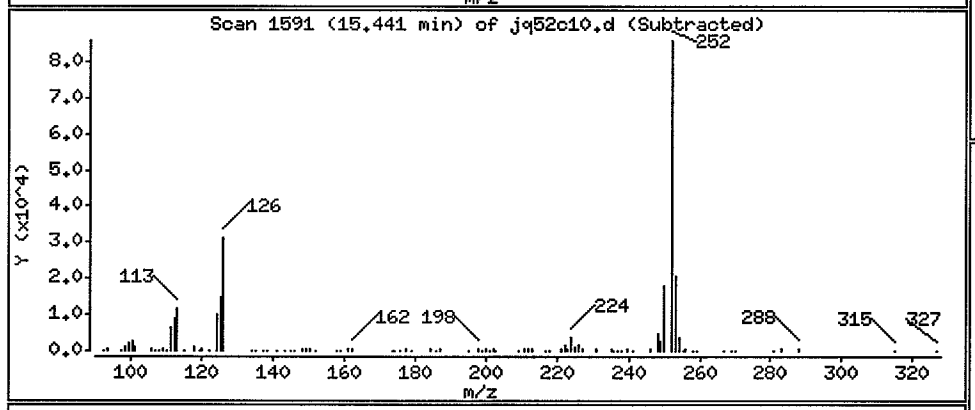
Column phase: ZB-5

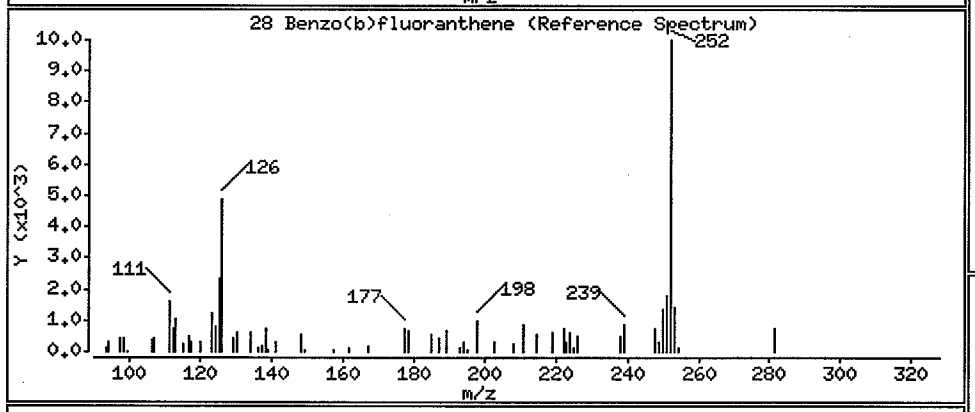
Column diameter: 0.25

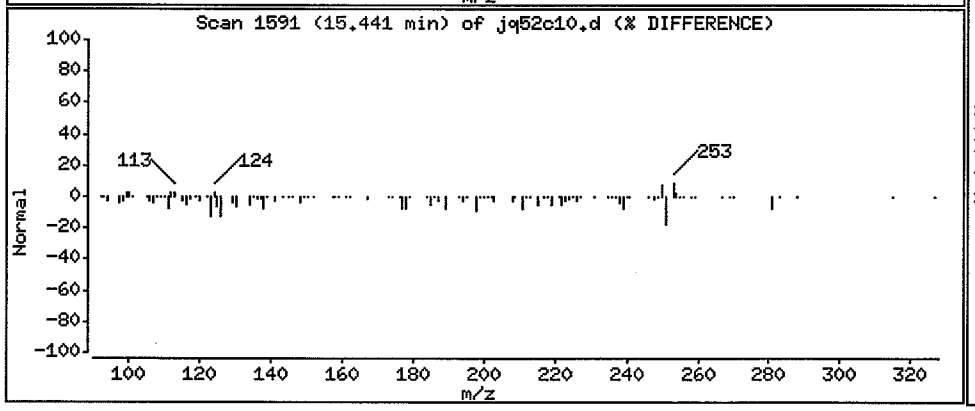
28 Benzo(b)fluoranthene

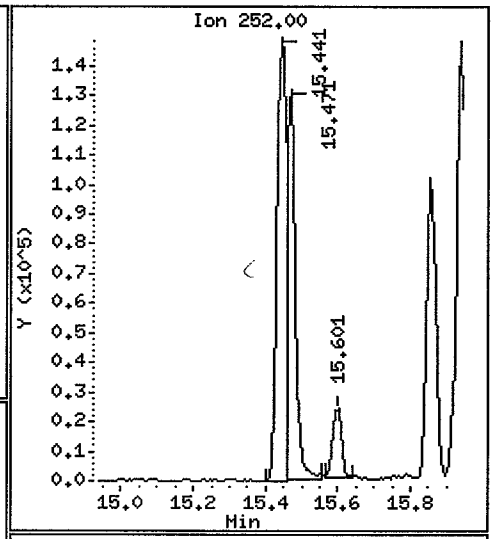
Concentration: 1074 ug/kg

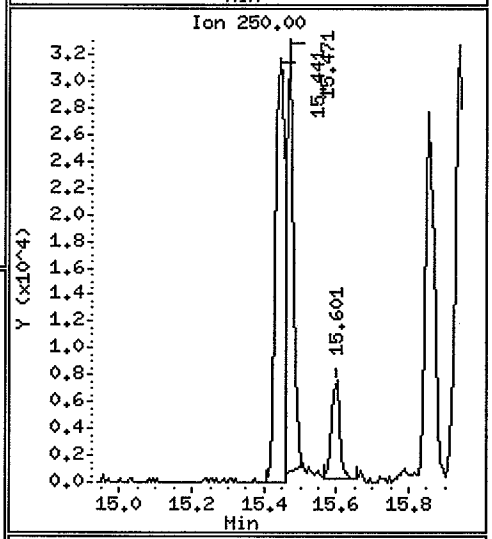


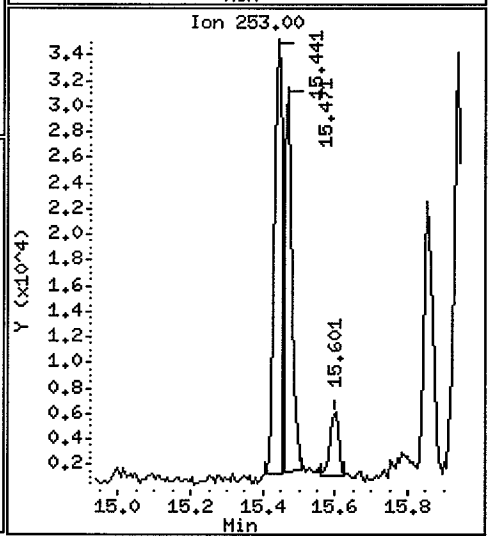












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

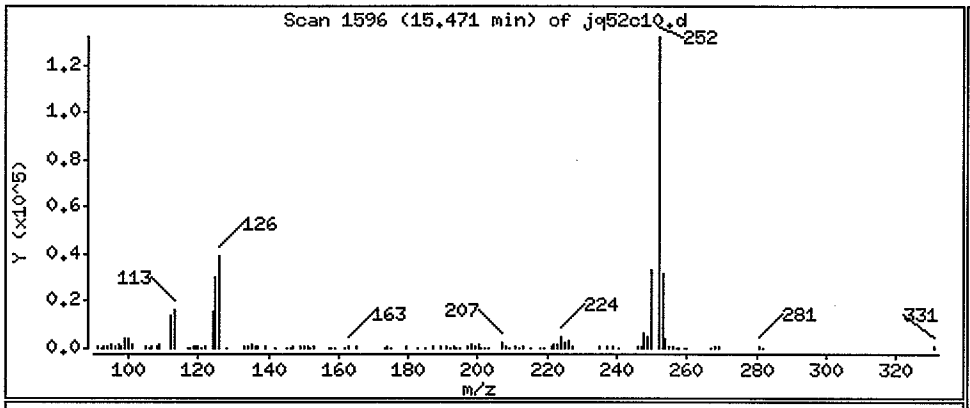
Operator: VTS

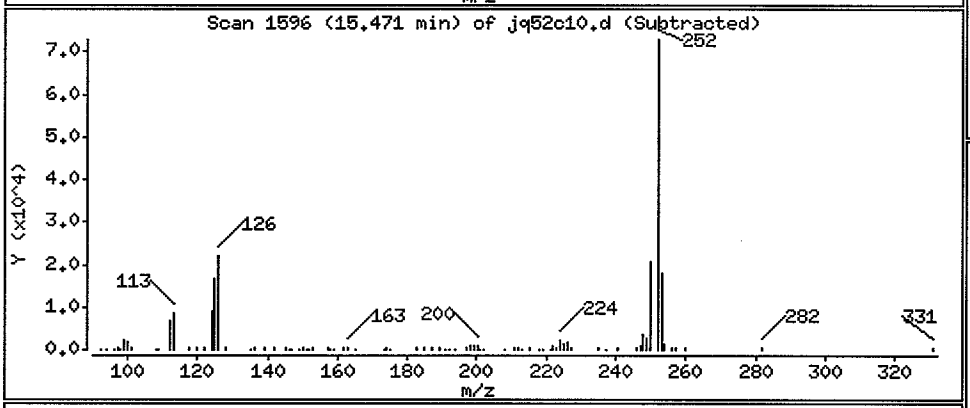
Column phase: ZB-5

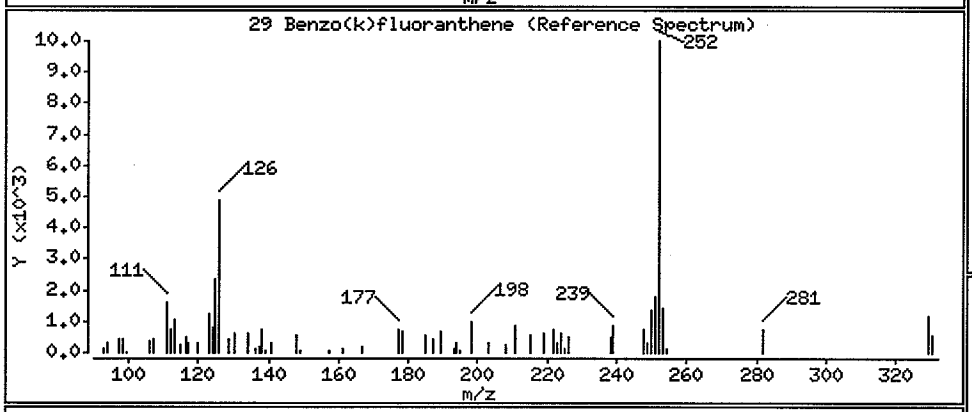
Column diameter: 0.25

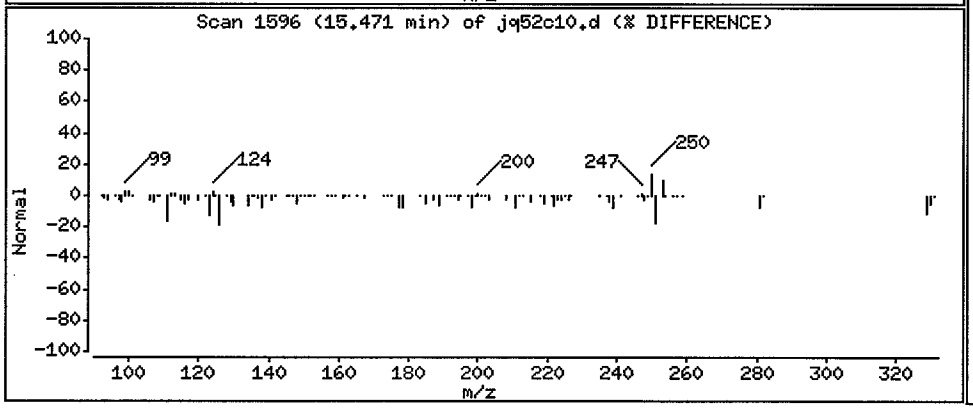
29 Benzo(k)fluoranthene

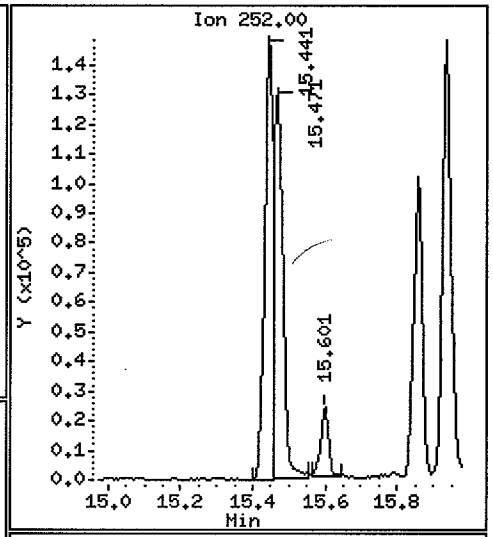
Concentration: 838.9 ug/kg

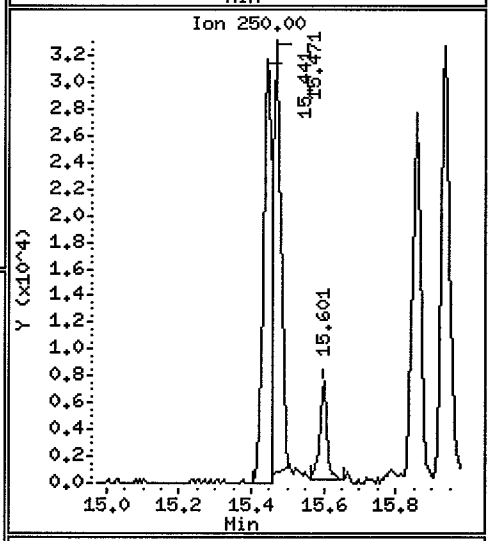


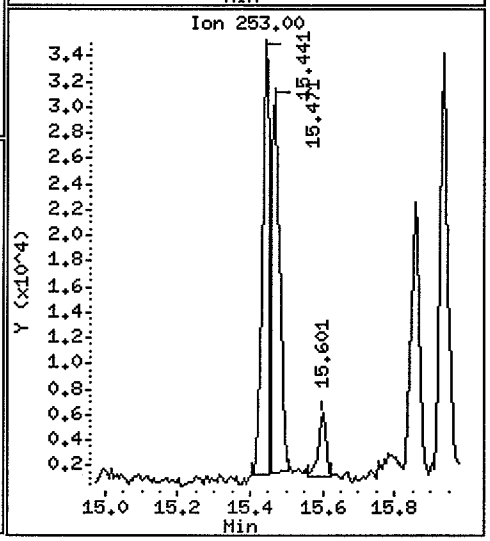












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

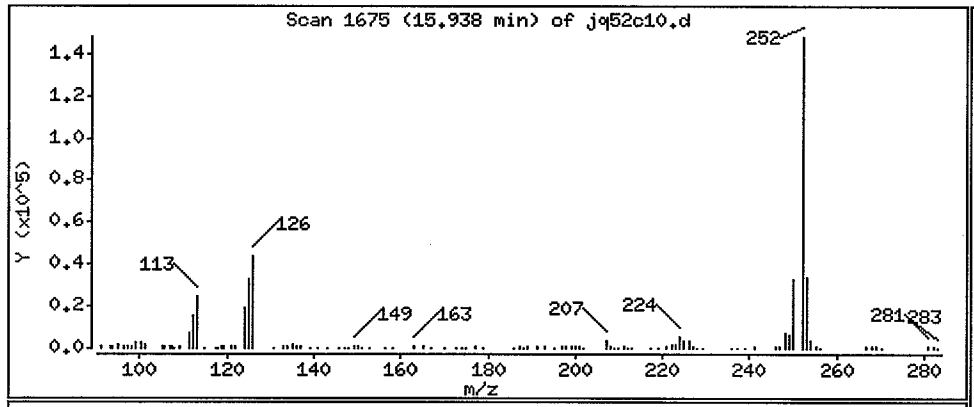
Operator: VTS

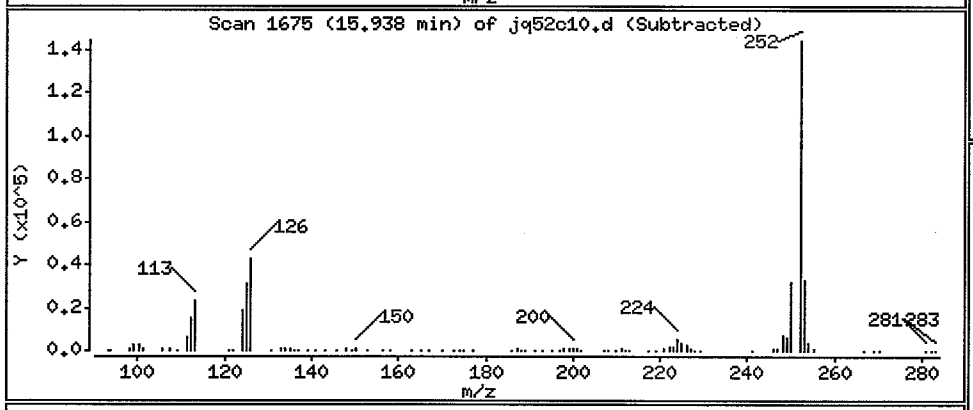
Column phase: ZB-5

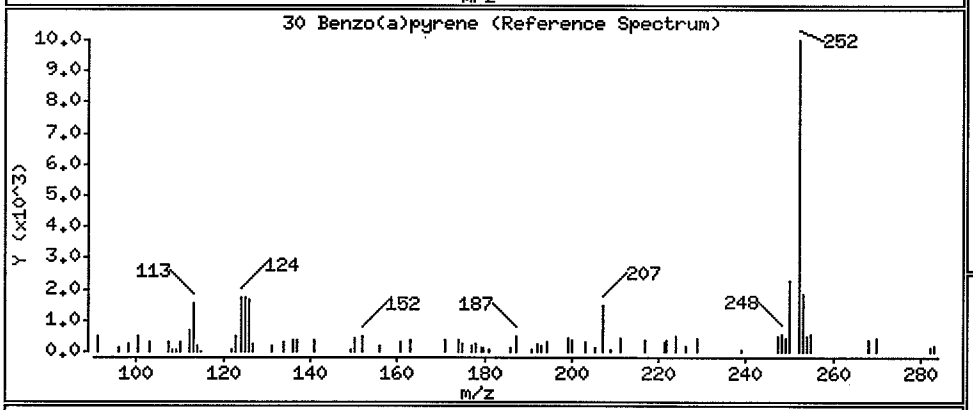
Column diameter: 0.25

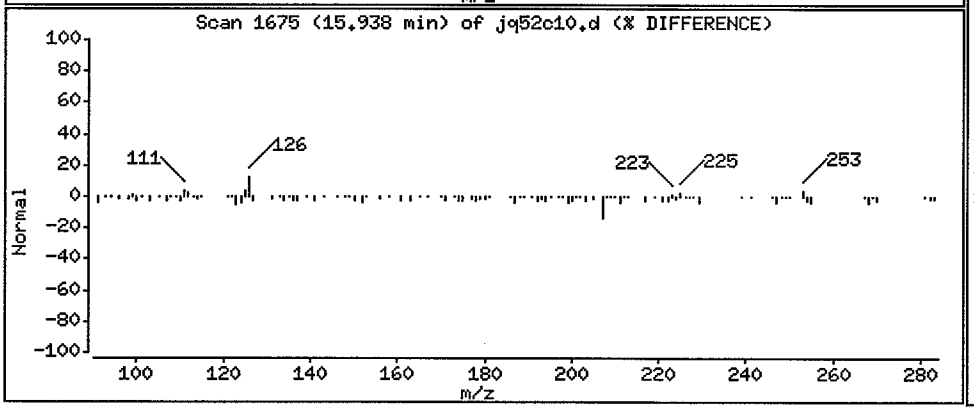
30 Benzo(a)pyrene

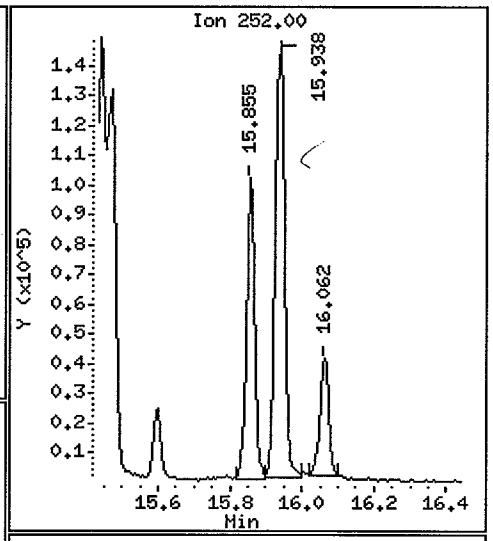
Concentration: 1027 ug/kg

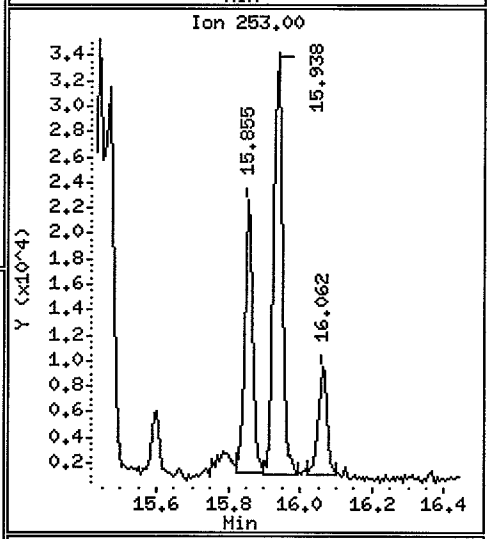


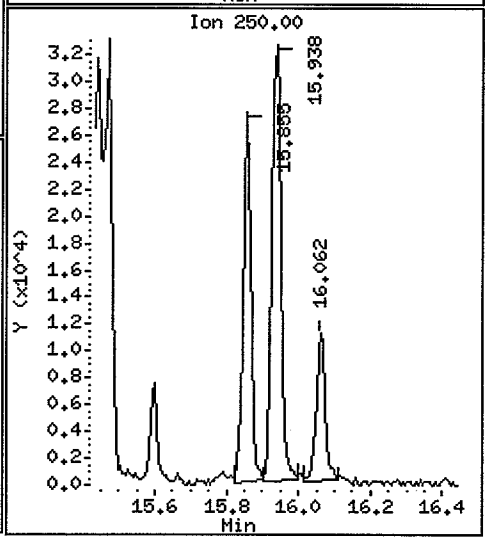












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

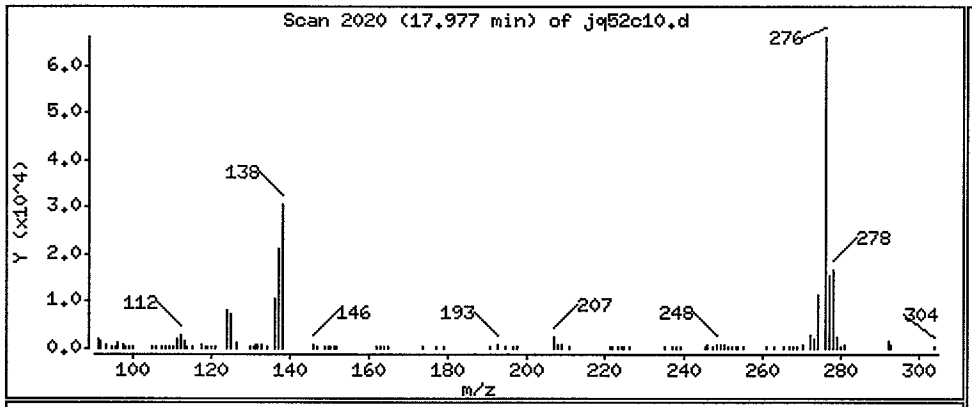
Operator: VTS

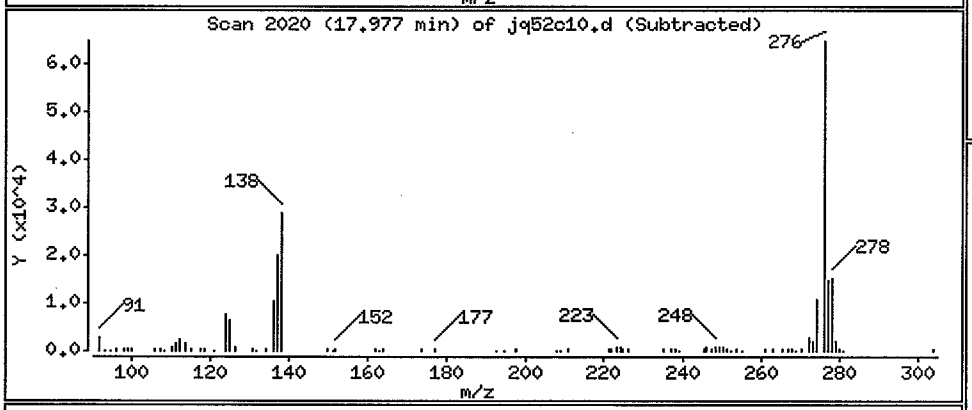
Column phase: ZB-5

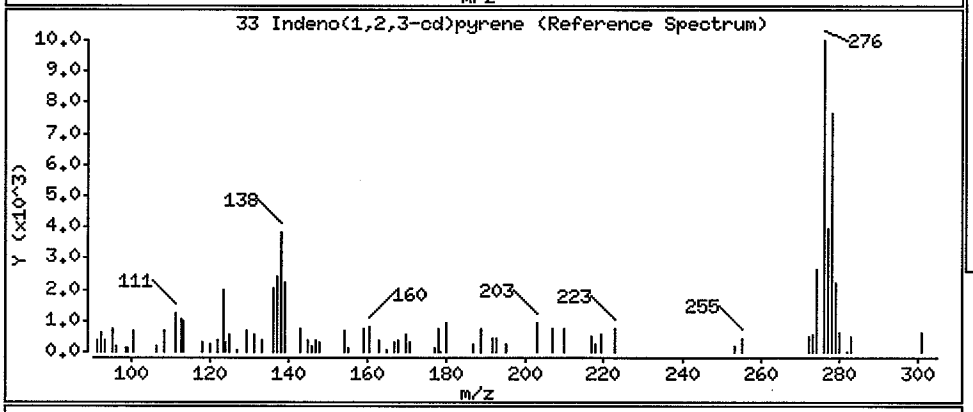
Column diameter: 0.25

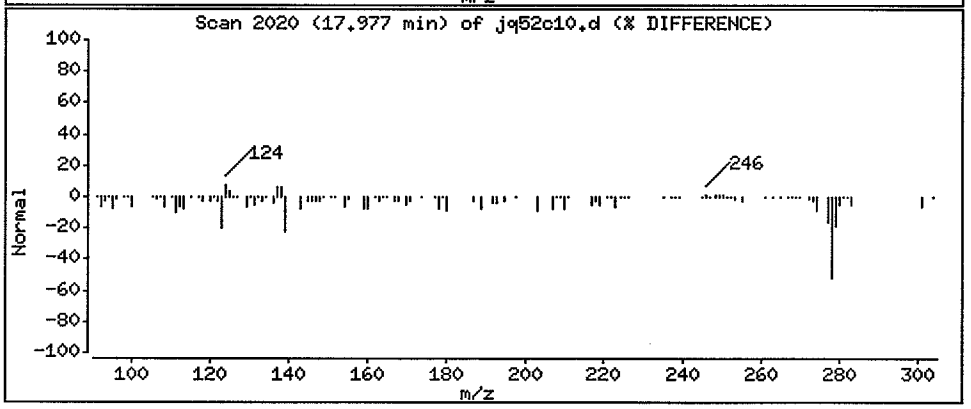
33 Indeno(1,2,3-cd)pyrene

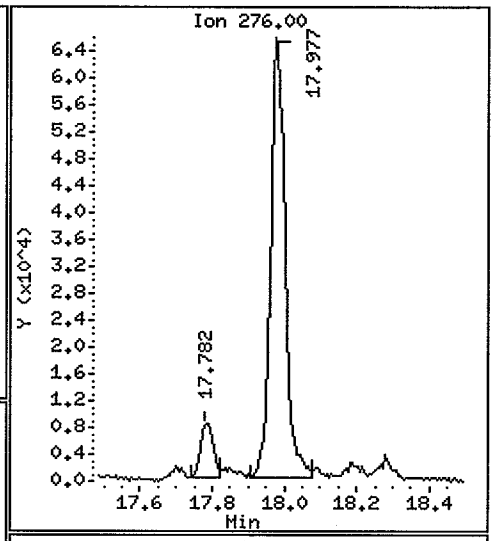
Concentration: 660.8 ug/kg

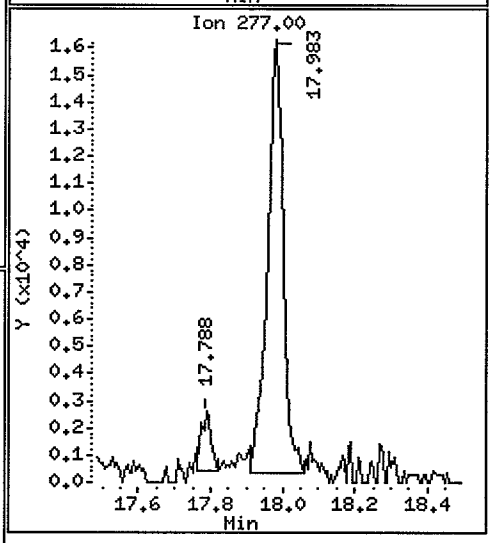












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

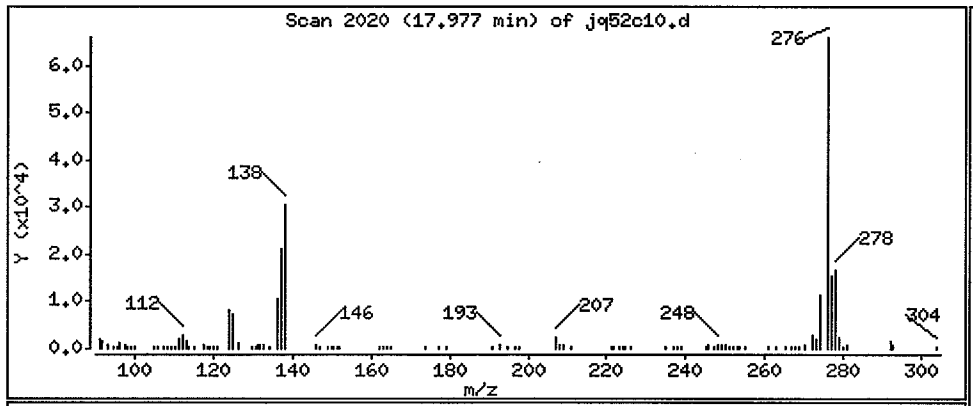
Operator: VTS

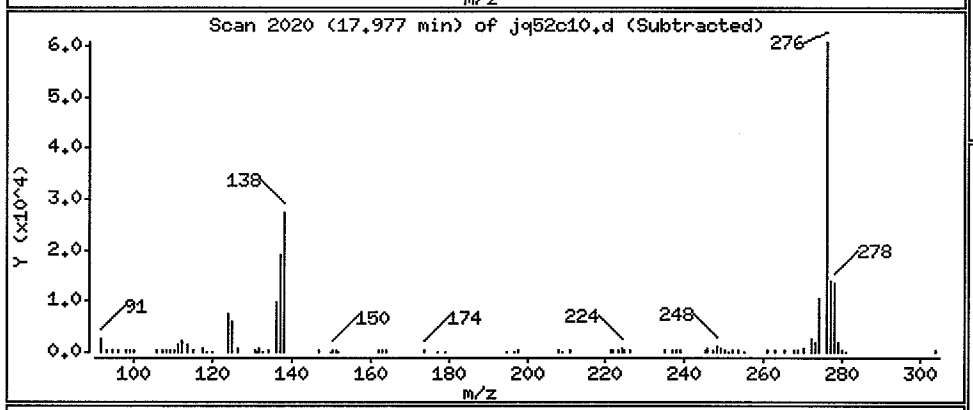
Column phase: ZB-5

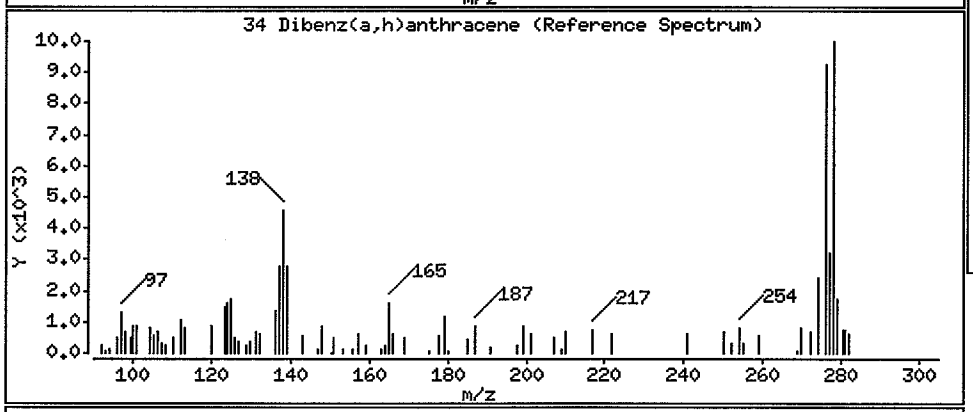
Column diameter: 0.25

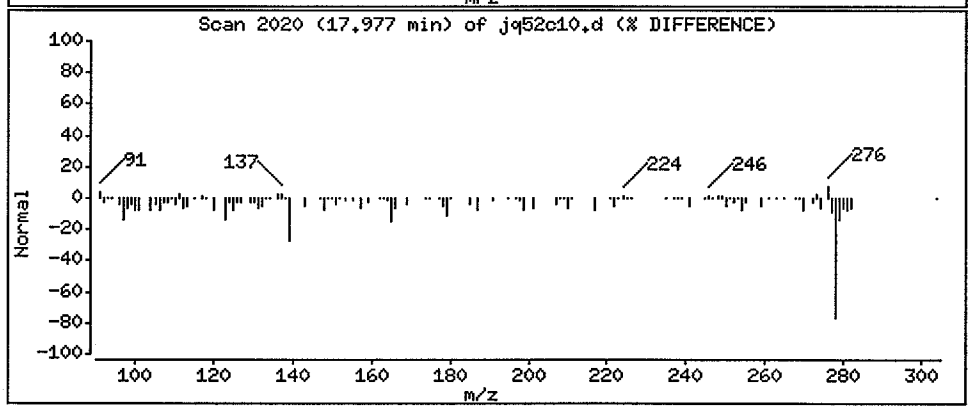
34 Dibenz(a,h)anthracene

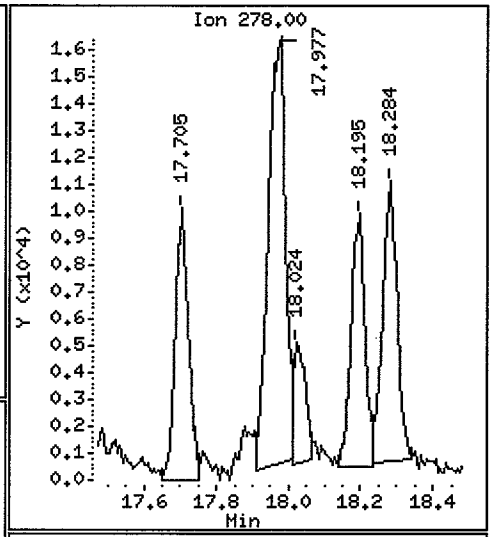
Concentration: 237.2 ug/kg

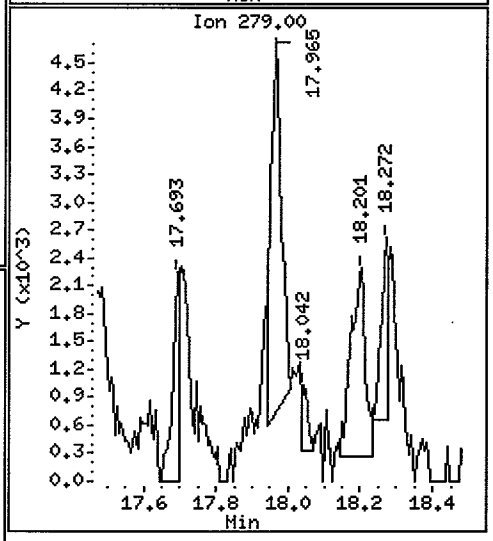












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

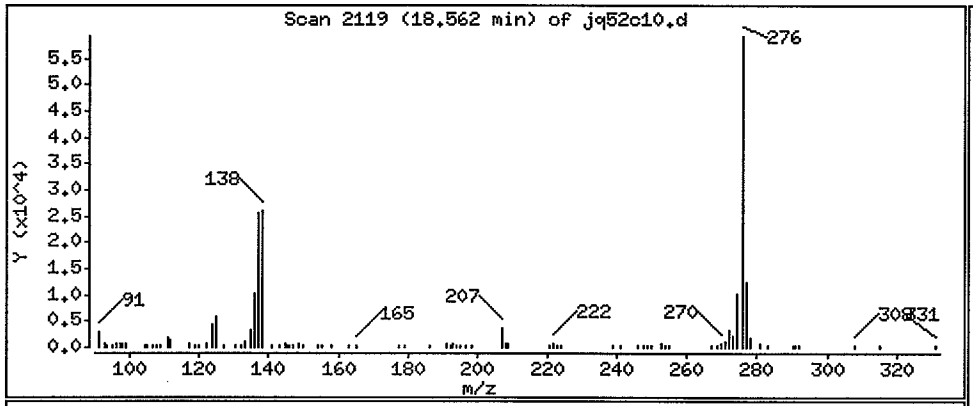
Operator: VTS

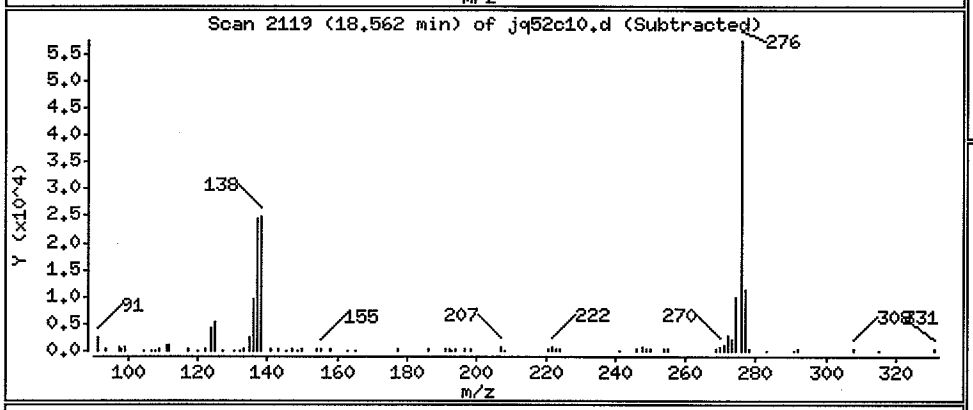
Column phase: ZB-5

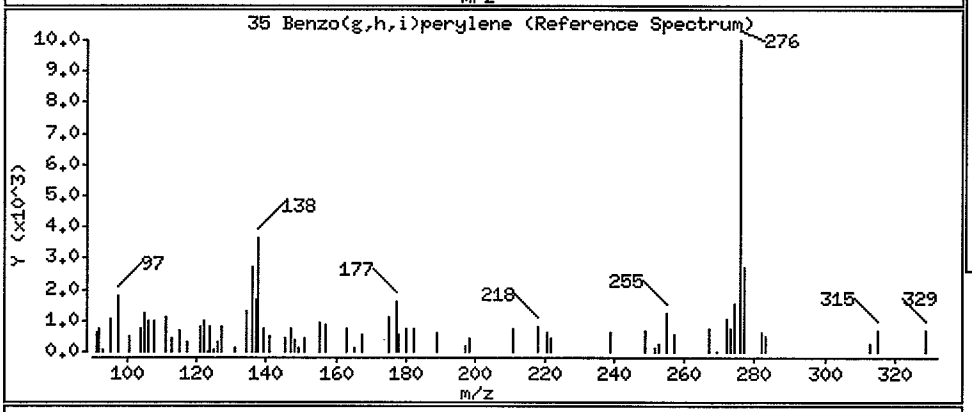
Column diameter: 0.25

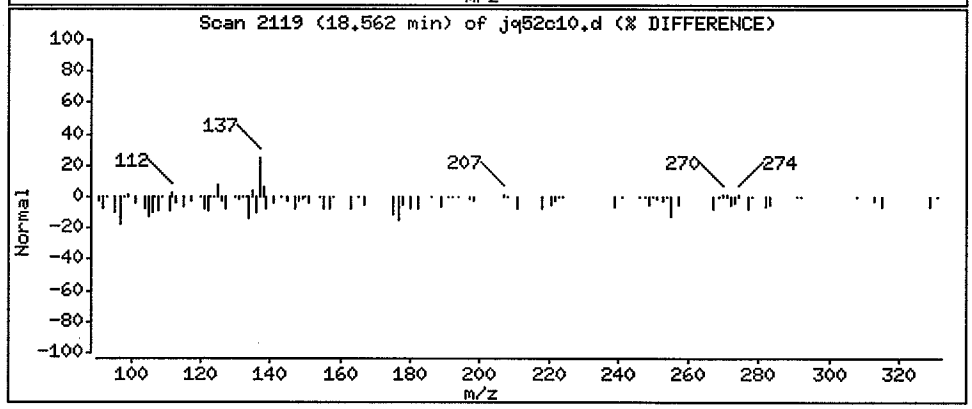
35 Benzo(g,h,i)perylene

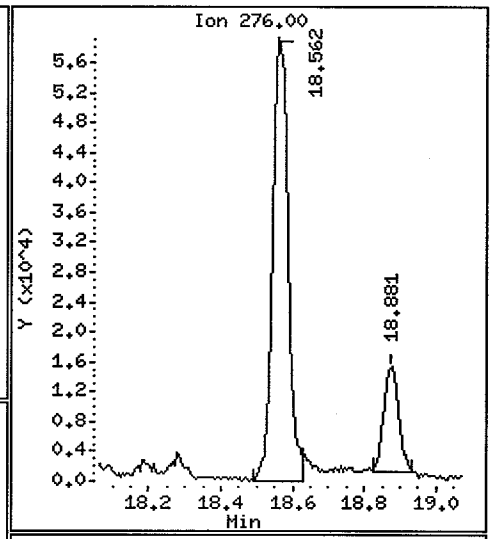
Concentration: 774.3 ug/kg

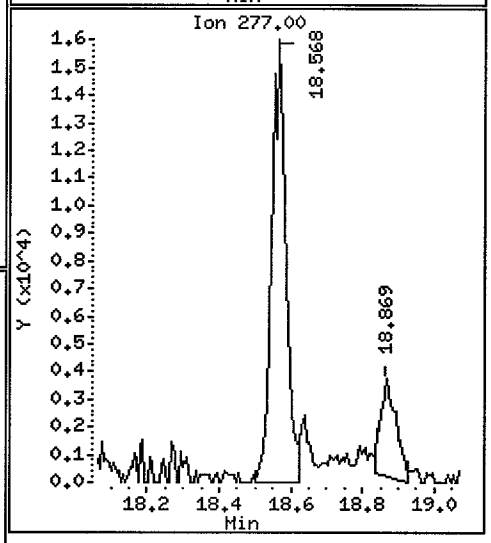












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

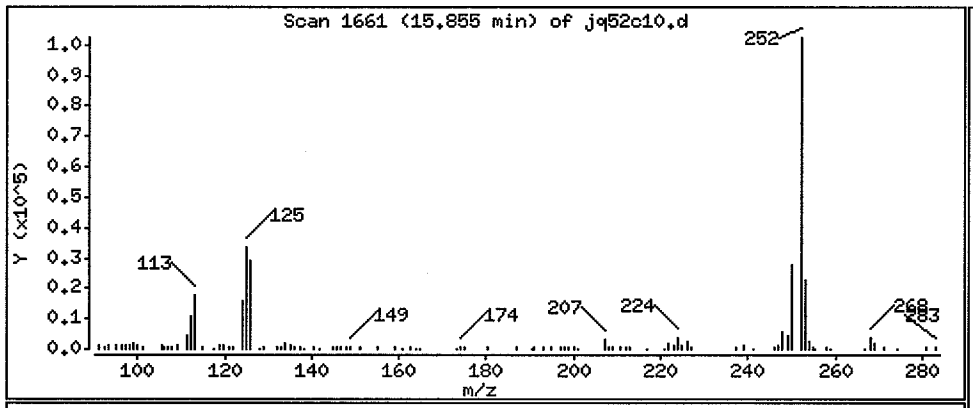
Operator: VTS

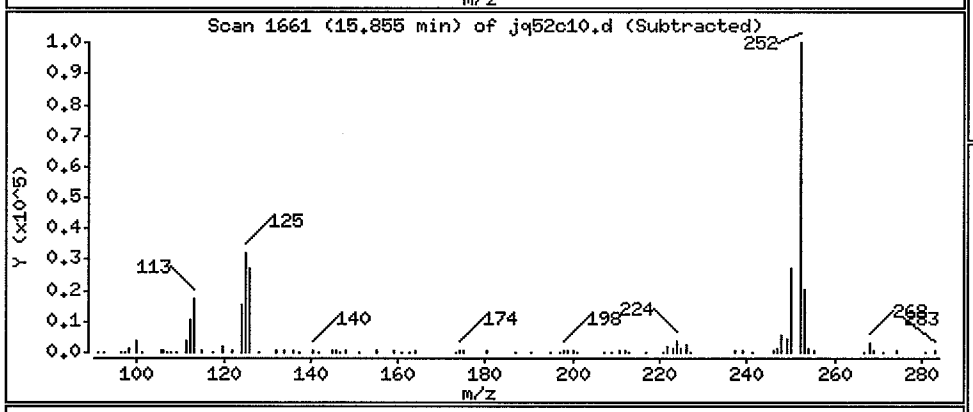
Column phase: ZB-5

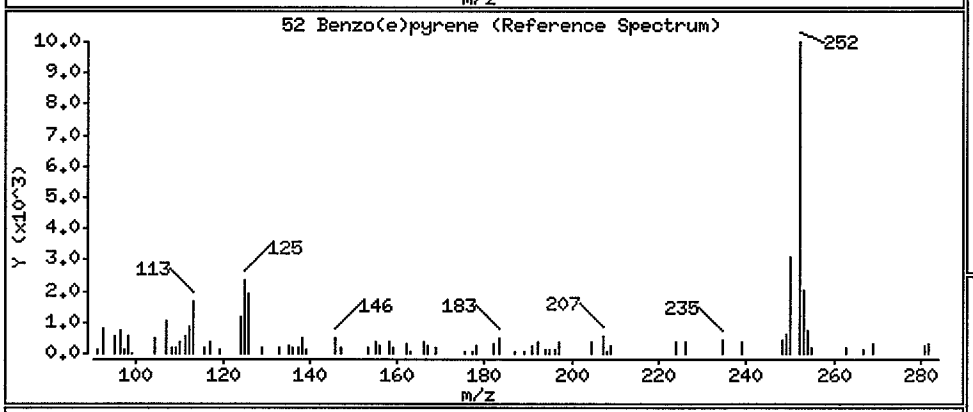
Column diameter: 0.25

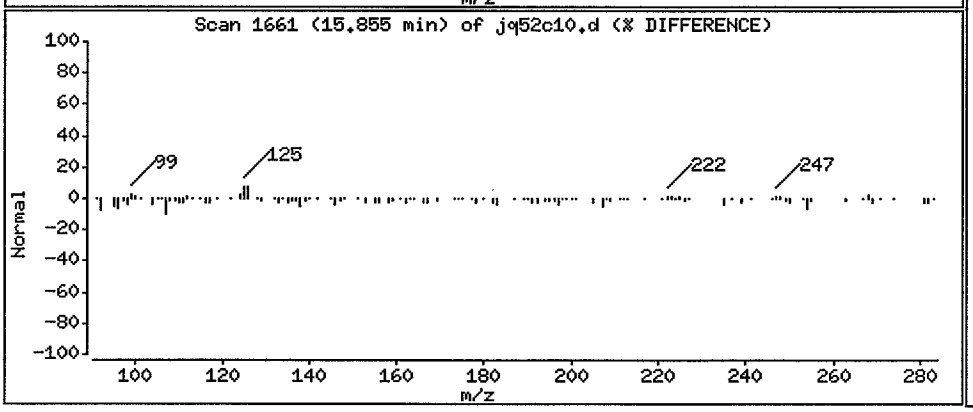
52 Benzo(e)pyrene

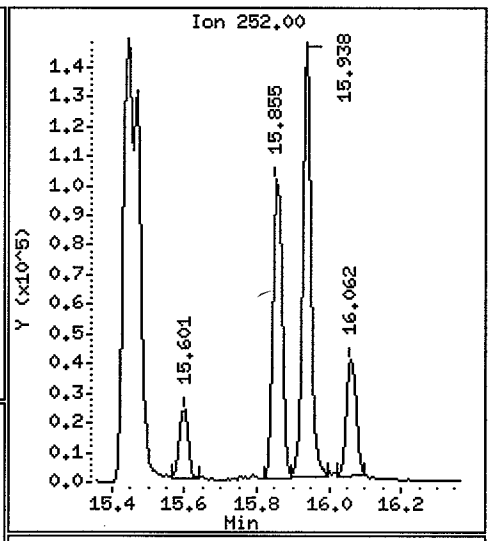
Concentration: 632.1 ug/kg

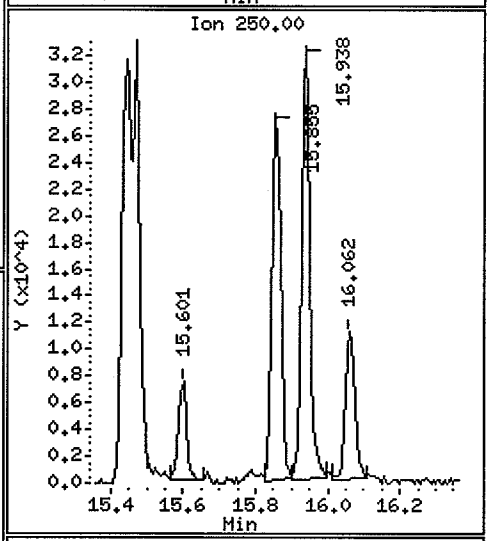


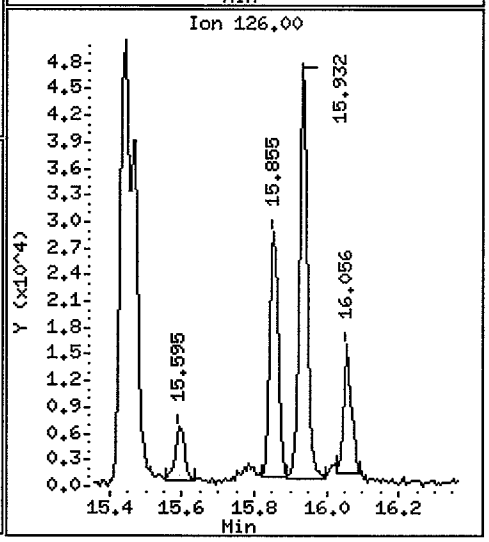












Data File: /chem3/nt1.i/20060808.b/jq52c10.d

Date : 08-AUG-2006 19:47

Client ID: T4-B414-02-A-DUP

Instrument: nt1.i

Sample Info: JQ52C,10

Volume Injected (uL): 1.0

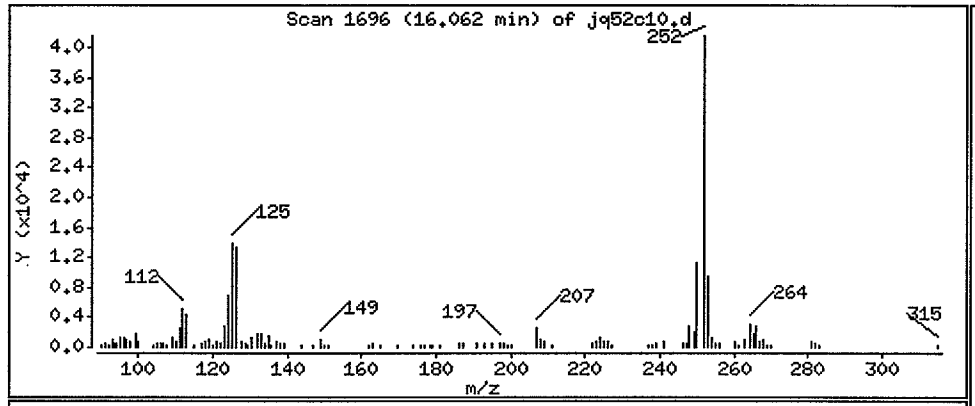
Operator: VTS

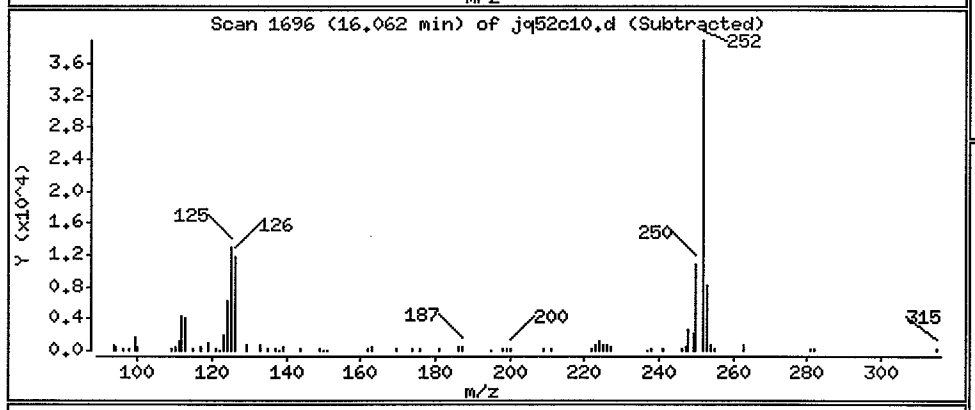
Column phase: ZB-5

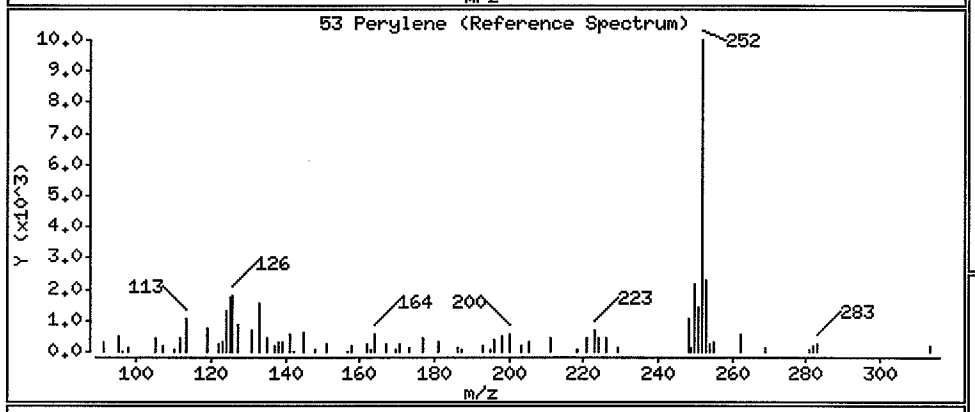
Column diameter: 0.25

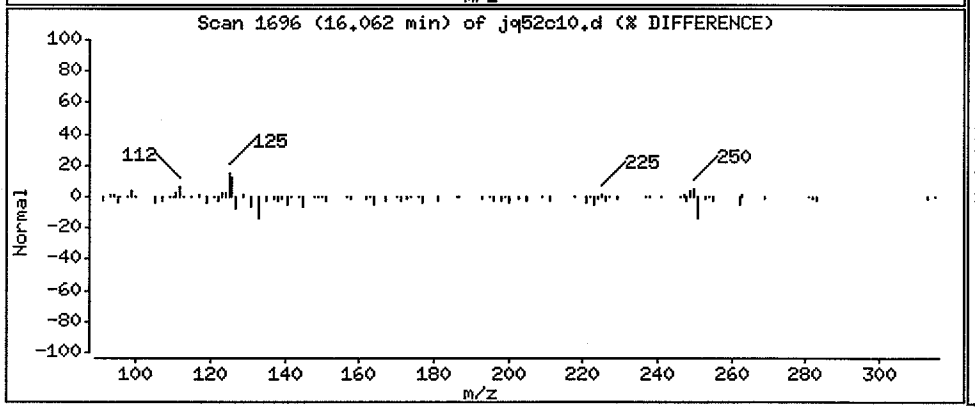
53 Perylene

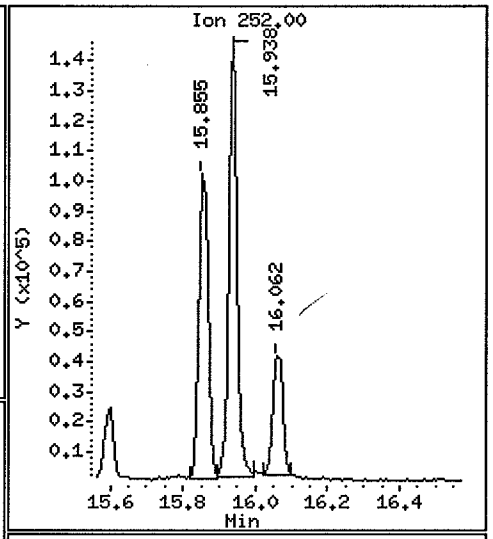
Concentration: 295.7 ug/kg

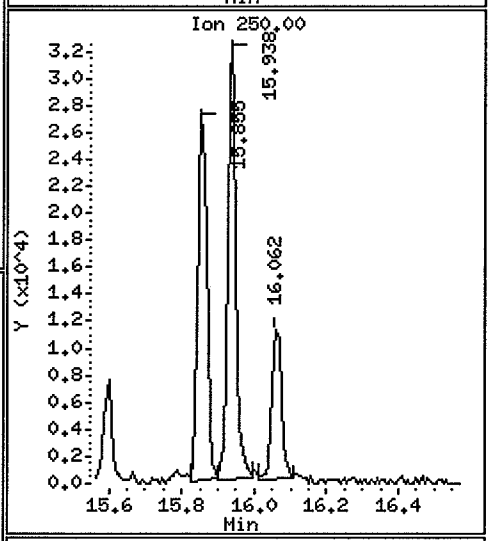


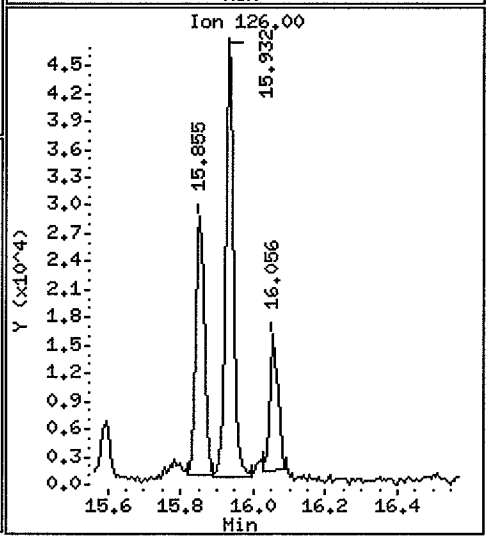












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-08-C-DUP
SAMPLE

Lab Sample ID: JQ52D
LIMS ID: 06-13114
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/08/06 20:12
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 15.3%
pH: 5.8

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**	**88**
86-73-7	**Fluorene**	**49**	**59**
85-01-8	**Phenanthrene**	**49**	**560**
120-12-7	**Anthracene**	**49**	**93**
206-44-0	**Fluoranthene**	**49**	**1,100**
129-00-0	**Pyrene**	**49**	**900**
56-55-3	**Benzo(a)anthracene**	**49**	**540**
218-01-9	**Chrysene**	**49**	**780**
205-99-2	**Benzo(b)fluoranthene**	**49**	**830**
207-08-9	**Benzo(k)fluoranthene**	**49**	**620**
50-32-8	**Benzo(a)pyrene**	**49**	**660**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**49**	**440**
53-70-3	**Dibenz(a,h)anthracene**	**49**	**150**
191-24-2	**Benzo(g,h,i)perylene**	**49**	**500**
198-55-0	**Perylene**	**49**	**280**
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**	**490**
2245-38-7	2,3,5-Trimethylnaphthalene	49	< 49 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	69.0%
d14-Dibenzo(a,h)anthracen	67.7%

FORM I

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060808.b/jq52d10.d
Lab Smp Id: JQ52D — Client Smp ID: T4-S3-08-C-DUP
Inj Date : 08-AUG-2006 20:12
Operator : VTS — Inst ID: nt1.i
Smp Info : JQ52D,10
Misc Info : 06-13114
Comment : 1ul Injection
Method : /chem3/nt1.i/20060808.b/simpna.m
Meth Date : 09-Aug-2006 11:00 yev — Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 — Cal File: ic0806f.d
Als bottle: 10
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	12.00000	Weight of sample extracted (g)
M	15.30000	% 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	6.883	6.884	(1.000)	299651	2.00000	
2 Naphthalene	128	Compound Not Detected.					
$ 3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	15953	0.20670	101.7
4 2-Methylnaphthalene	142	Compound Not Detected.					
5 1-Methylnaphthalene	142	Compound Not Detected.					
7 Acenaphthylene	152	Compound Not Detected.					
* 8 Acenaphthene-d10	164	8.940	8.946	(1.000)	156857	2.00000	
9 Acenaphthene	153	8.982	8.982	(1.005)	14074	0.18273	89.89
10 Dibenzofuran	168	9.171	9.171	(1.026)	6197	0.05462	26.87 J
11 Fluorene	166	9.596	9.596	(1.073)	10458	0.11841	58.25
* 15 Phenanthrene-d10	188	10.755	10.755	(1.000)	247671	2.00000	
16 Phenanthrene	178	10.784	10.784	(1.003)	145574	1.14512	563.3
17 Anthracene	178	10.843	10.843	(1.008)	24657	0.19409	95.48
19 Fluoranthene	202	12.279	12.280	(1.142)	289415	2.23202	1098

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
20 Pyrene	202	12.569	12.569	(0.893)	251587	1.83248	901.5
22 Benzo(a)anthracene	228	14.046	14.047	(0.998)	142145	1.10402	543.1
* 23 Chrysene-d12	240	14.070	14.070	(1.000)	213809	2.00000	
24 Chrysene	228	14.100	14.100	(1.002)	187825	1.58161	778.0
28 Benzo(b)fluoranthene	252	15.441	15.441	(0.964)	205469	1.68675	829.8
29 Benzo(k)fluoranthene	252	15.471	15.477	(0.966)	165167	1.27184	625.7(M)
30 Benzo(a)pyrene	252	15.938	15.938	(0.995)	158795	1.33784	658.1
* 31 Perylene-d12	264	16.020	16.021	(1.000)	215837	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.977	17.989	(1.122)	121726	0.89177	438.7
$ 32 Dibenz(a,h)anthrancene-d14	292	17.906	17.912	(1.118)	16796	0.20334	100.0
34 Dibenz(a,h)anthracene	278	17.971	17.977	(1.122)	34114	0.30593	150.5
35 Benzo(g,h,i)perylene	276	18.562	18.568	(1.159)	115153	1.01487	499.2
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	11.558	11.559	(0.821)	7020	0.08021	39.46 J
52 Benzo(e)pyrene	252	15.861	15.861	(0.990)	131634	1.00189	492.9
53 Perylene	252	16.062	16.068	(1.003)	71689	0.58113	285.9

QC Flag Legend

M - Compound response manually integrated.

VR
8.10.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq52d10.d
Lab Smp Id: JQ52D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13114

Calibration Date: 08-AUG-2006
Calibration Time: 09:27
Client Smp ID: T4-S3-08-C-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	260380	130190	520760	299651	15.08
8 Acenaphthene-d10	135690	67845	271380	156857	15.60
15 Phenanthrene-d10	210931	105466	421862	247671	17.42
23 Chrysene-d12	190595	95298	381190	213809	12.18
31 Perylene-d12	193807	96904	387614	215837	11.37

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	8.94	-0.07
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.07	13.57	14.57	14.07	0.00
31 Perylene-d12	16.02	15.52	16.52	16.02	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

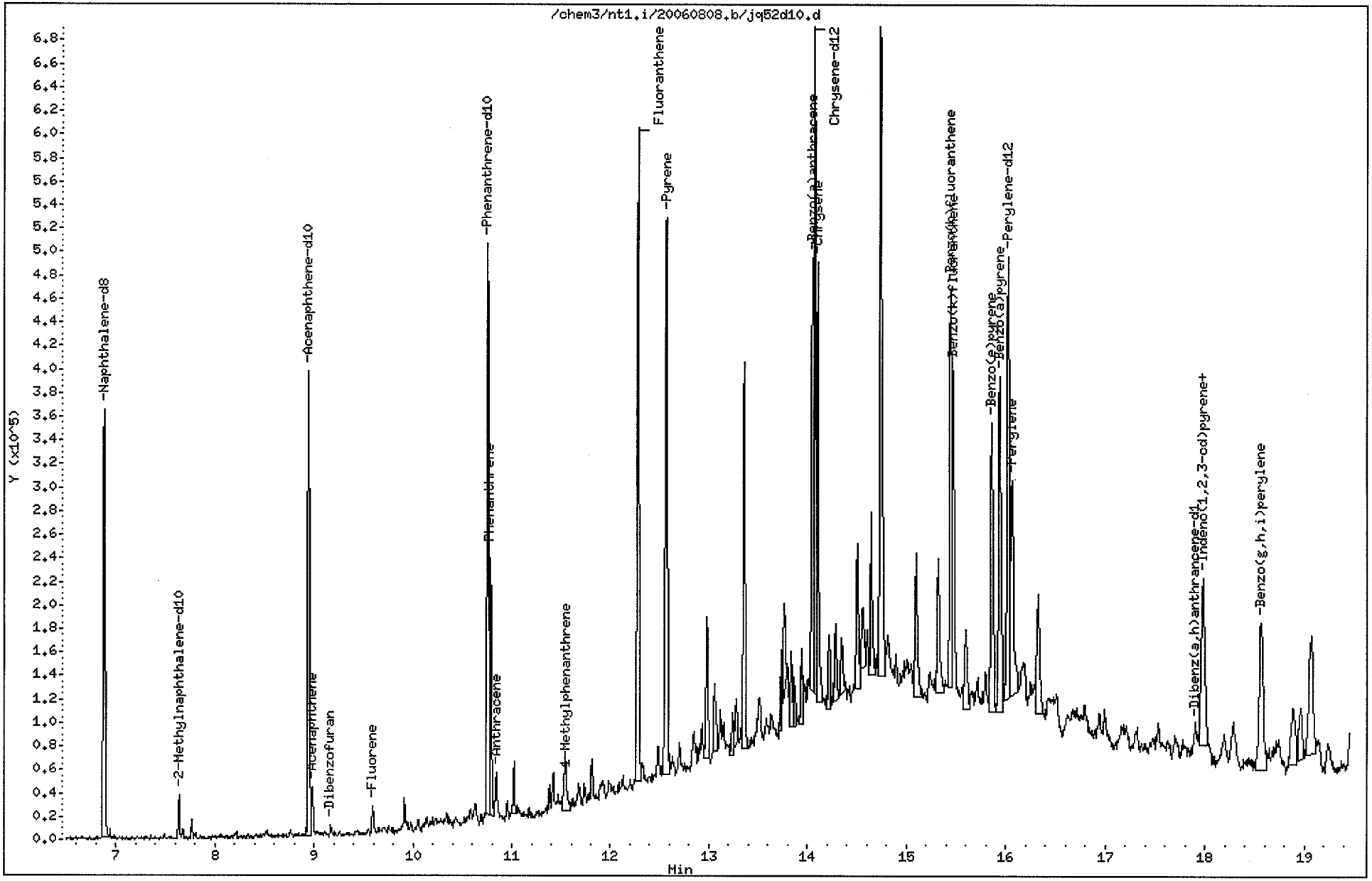
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52D
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info: 06-13114

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-08-C-DUP
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.6	101.7	68.90	32-97
$ 32 Dibenz(a,h)anthran	147.6	100.0	67.78	21-105

Data File: /chem3/nt1.i/20060808.b/jq52d10.d
Date : 08-AUG-2006 20:12
Client ID: T4-S3-08-C-DUP
Sample Info: JQ52D,10
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0193

Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

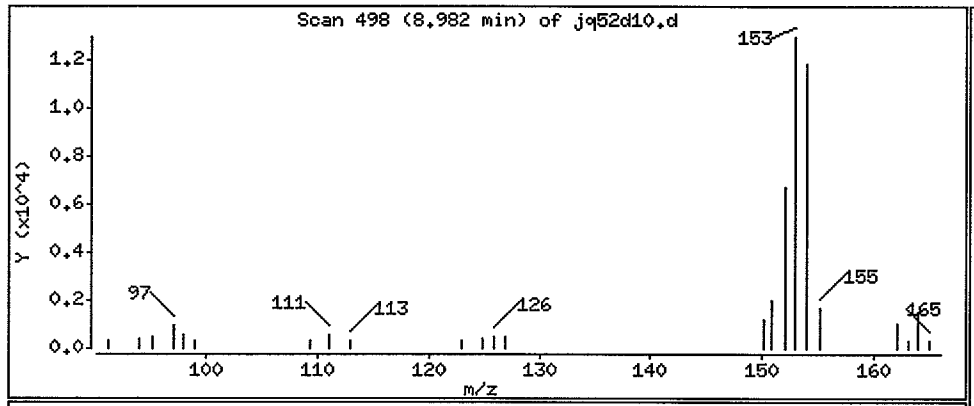
Operator: VTS

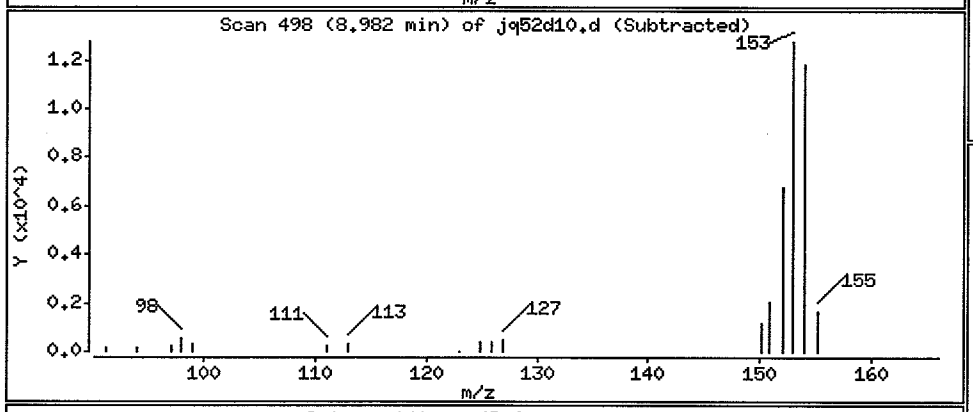
Column phase: ZB-5

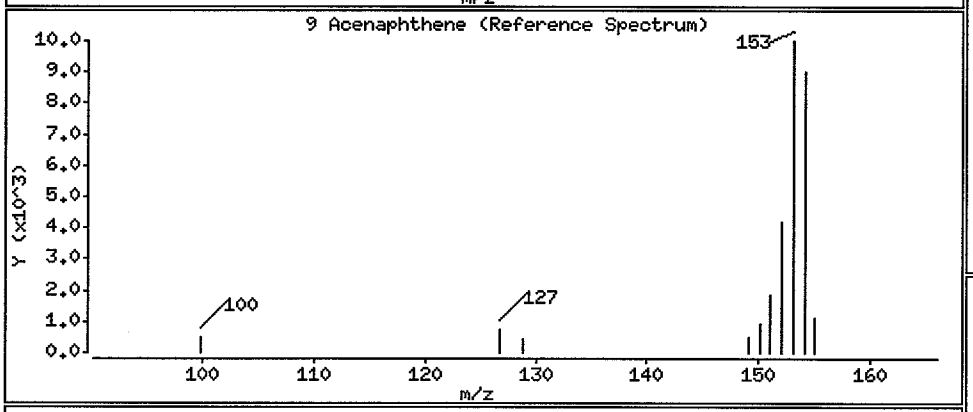
Column diameter: 0.25

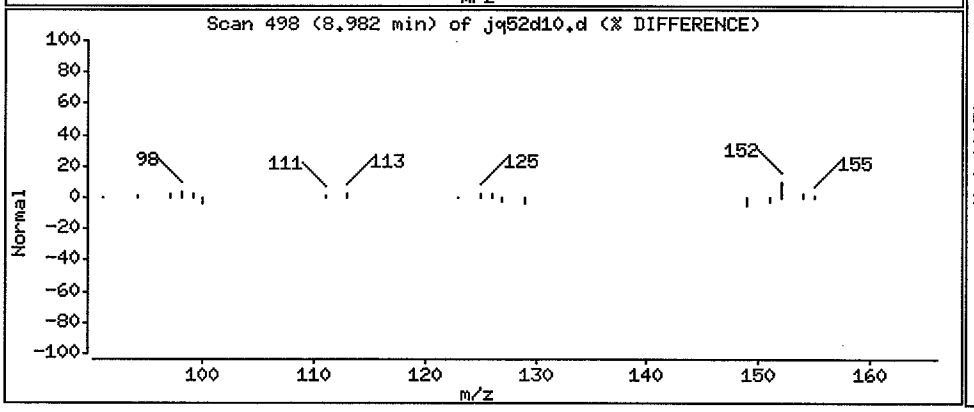
9 Acenaphthene

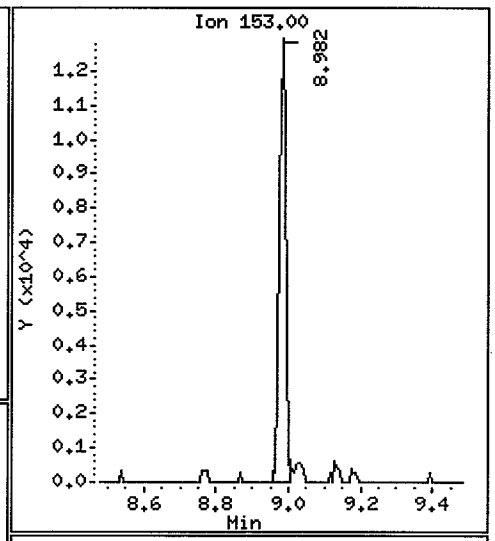
Concentration: 89.89 ug/kg

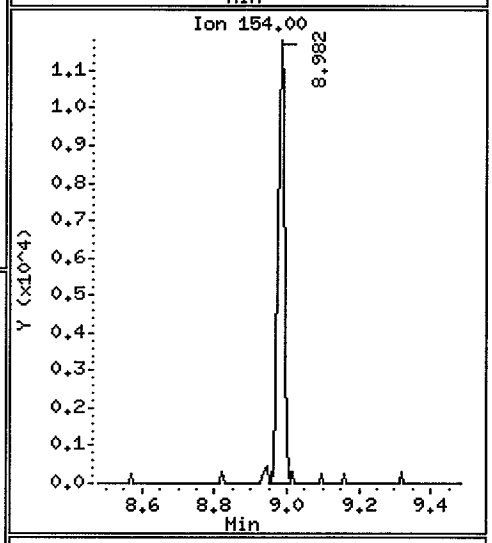


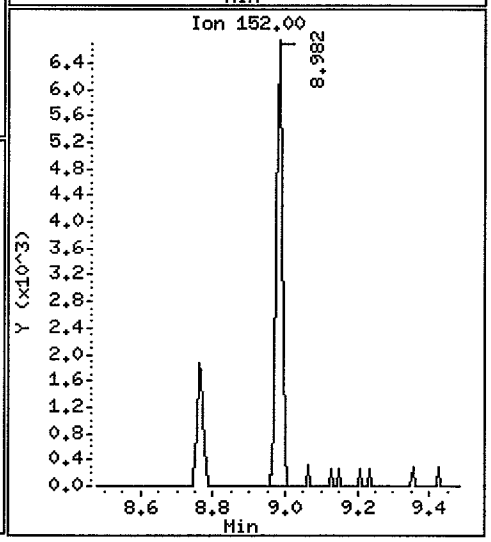












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

Operator: VTS

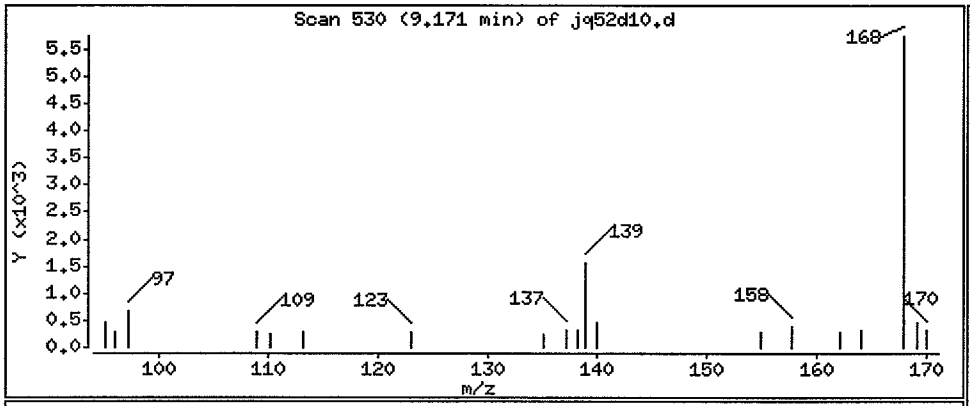
Column phase: ZB-5

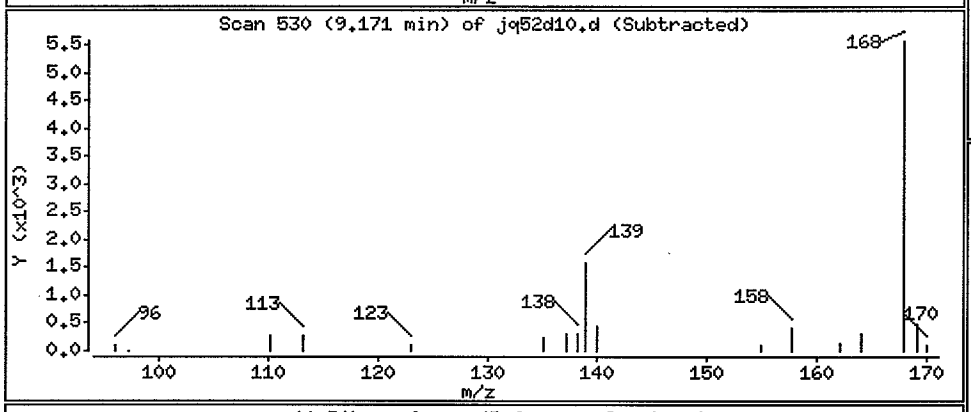
Column diameter: 0.25

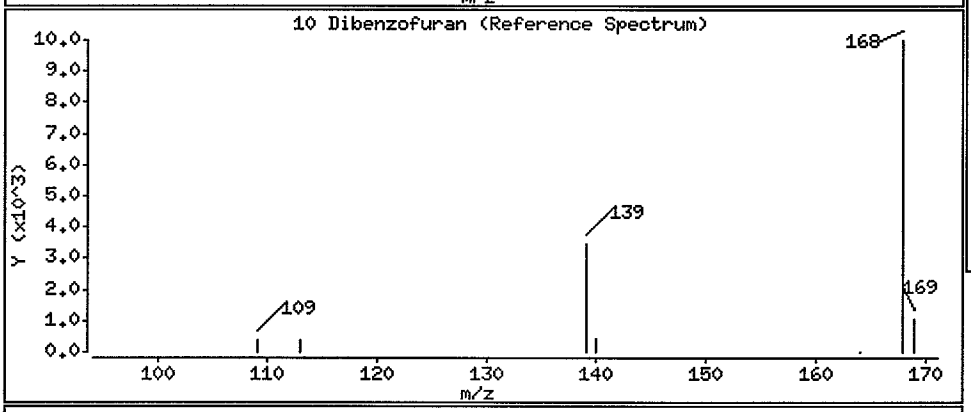
10 Dibenzofuran

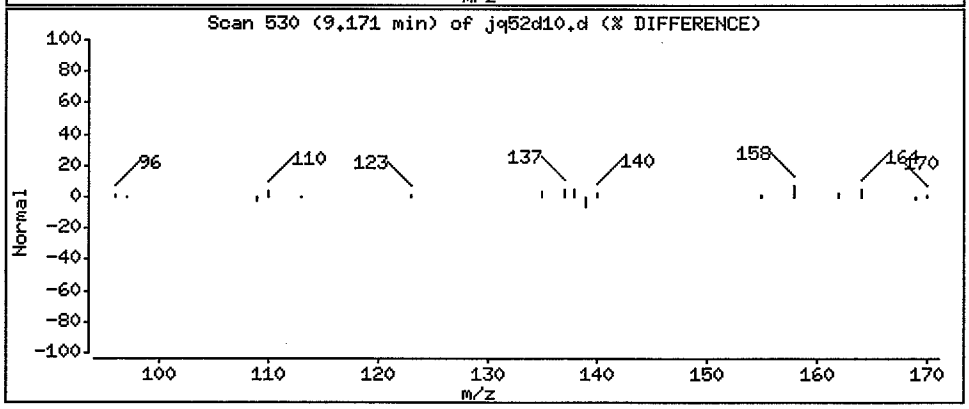
Concentration: 26.87 ug/kg

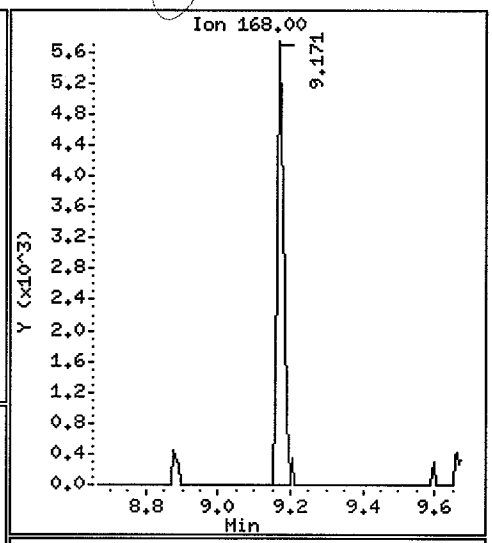
J NR.cp

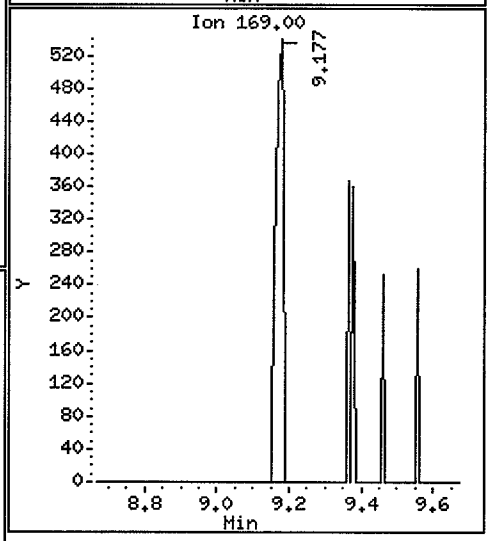












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

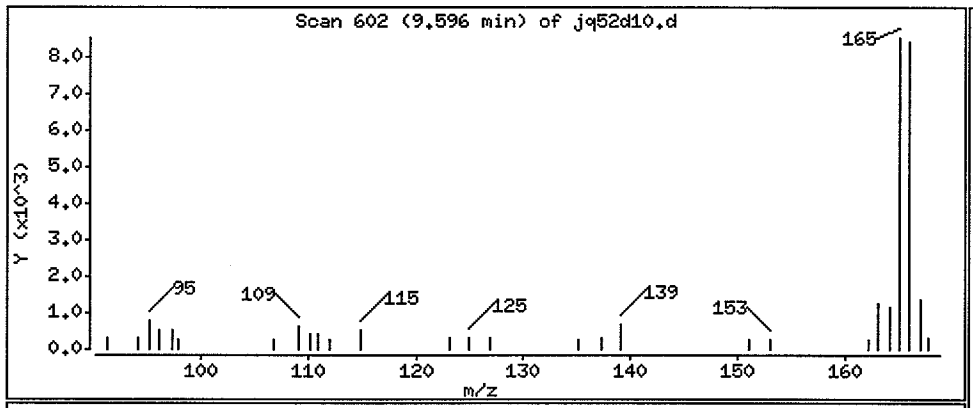
Operator: VTS

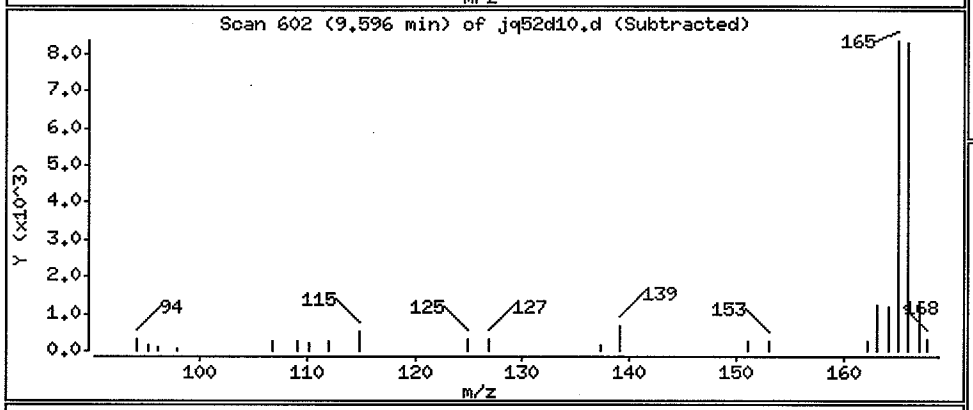
Column phase: ZB-5

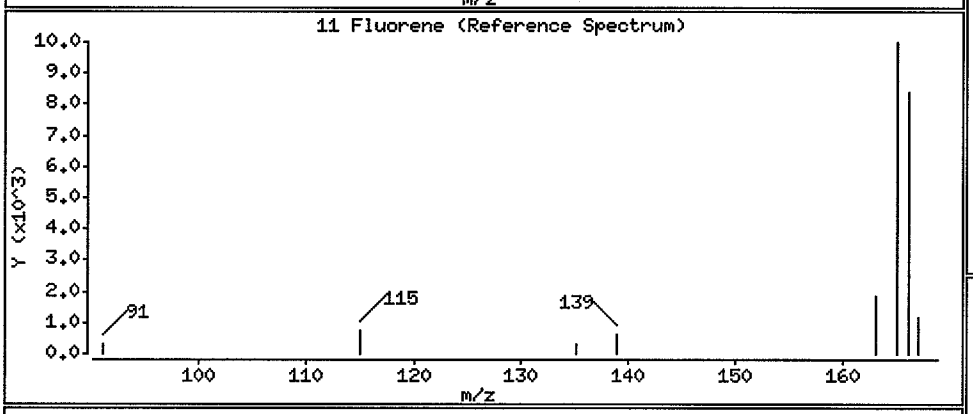
Column diameter: 0.25

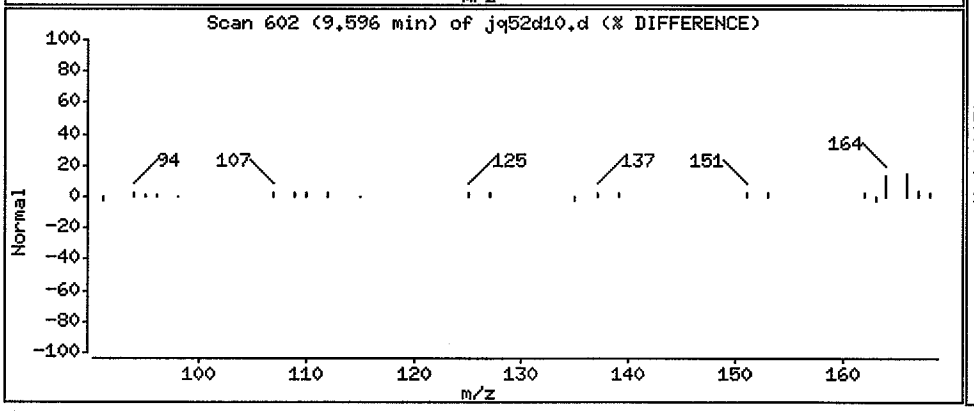
11 Fluorene

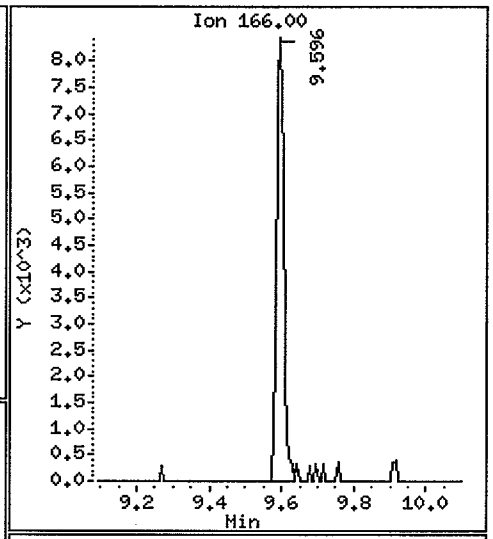
Concentration: 58.25 ug/kg

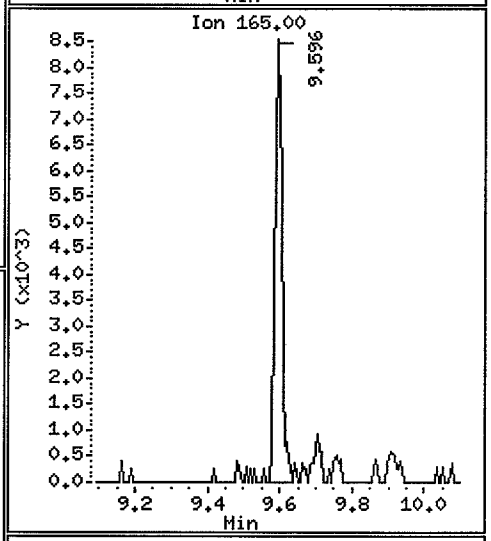


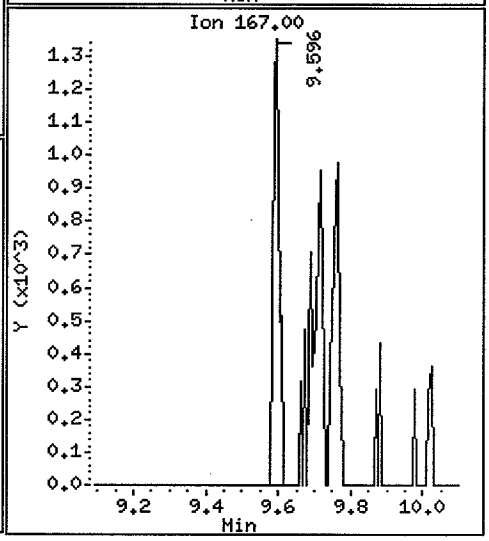












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

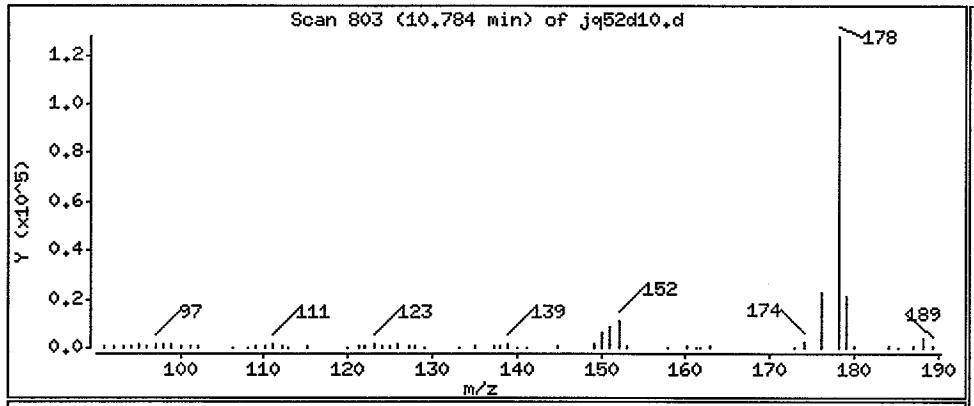
Operator: VTS

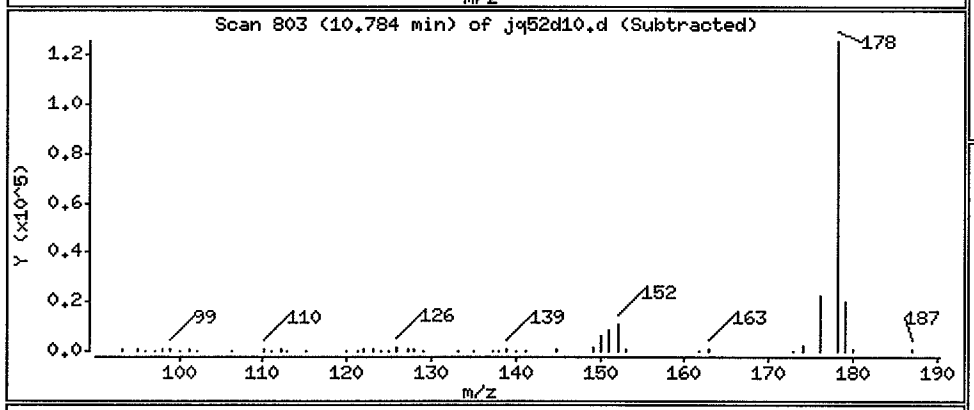
Column phase: ZB-5

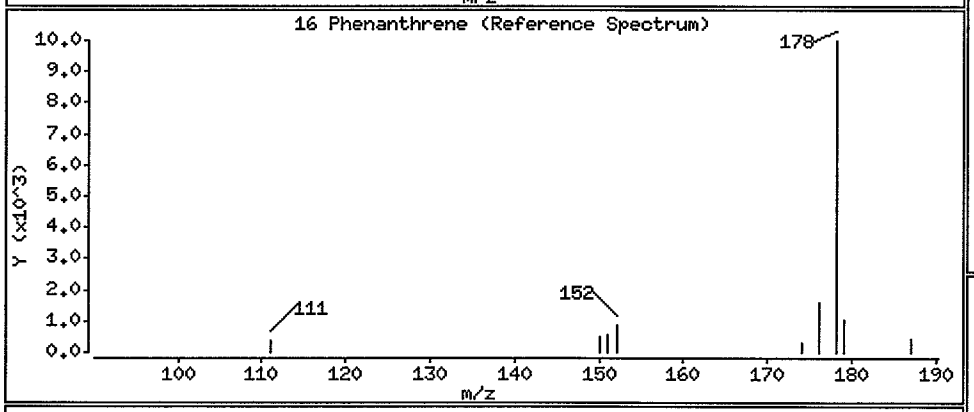
Column diameter: 0.25

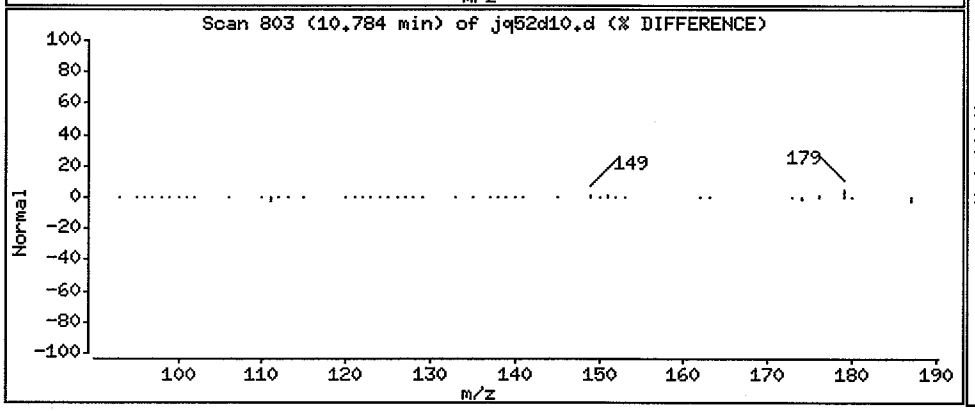
16 Phenanthrene

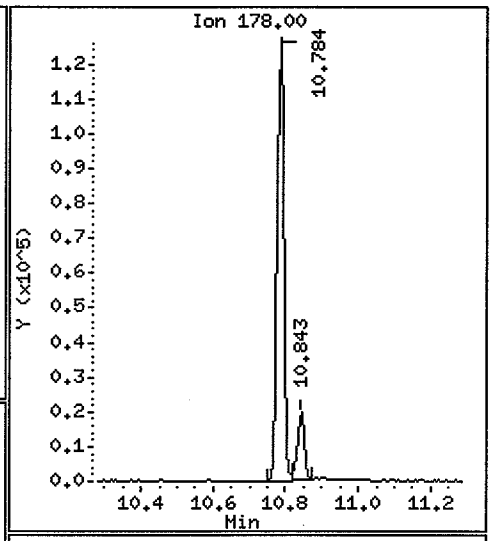
Concentration: 563.3 ug/kg

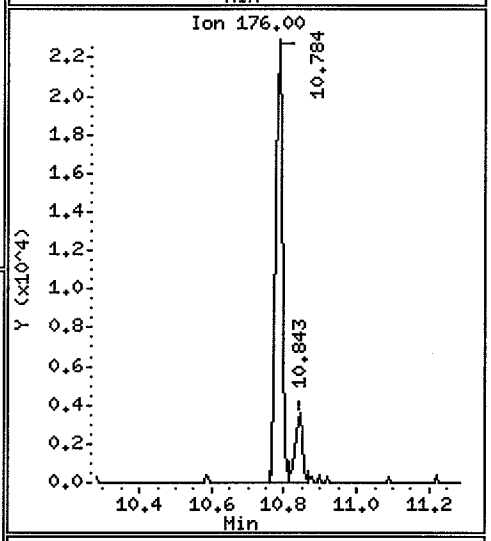


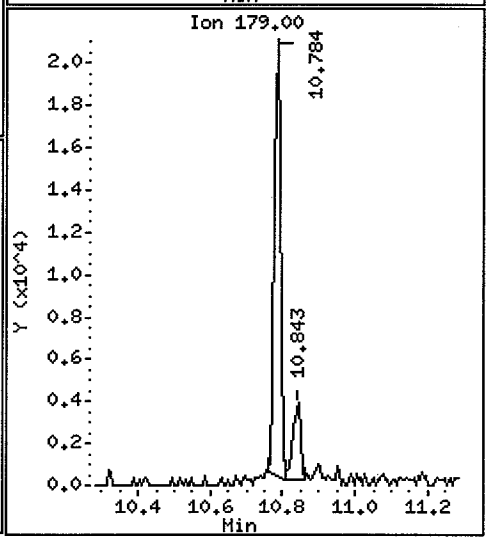












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

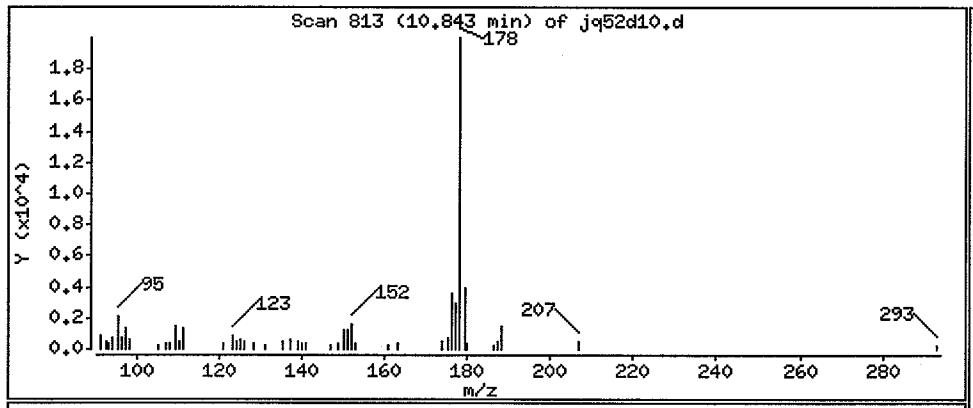
Operator: VTS

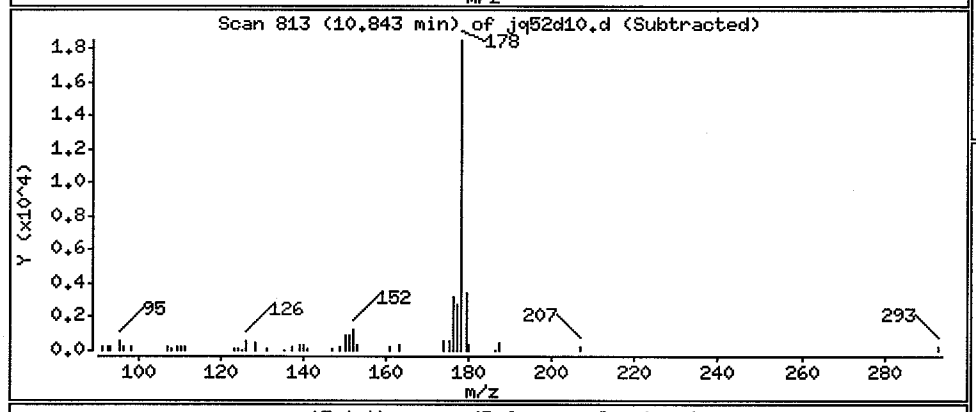
Column phase: ZB-5

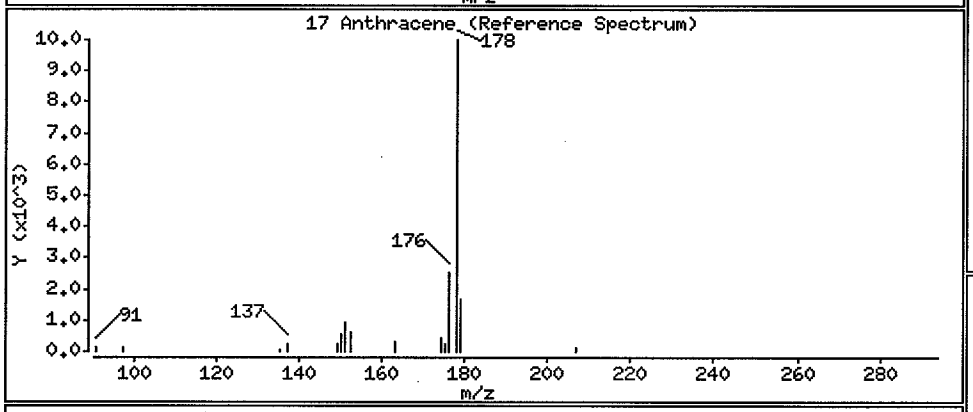
Column diameter: 0.25

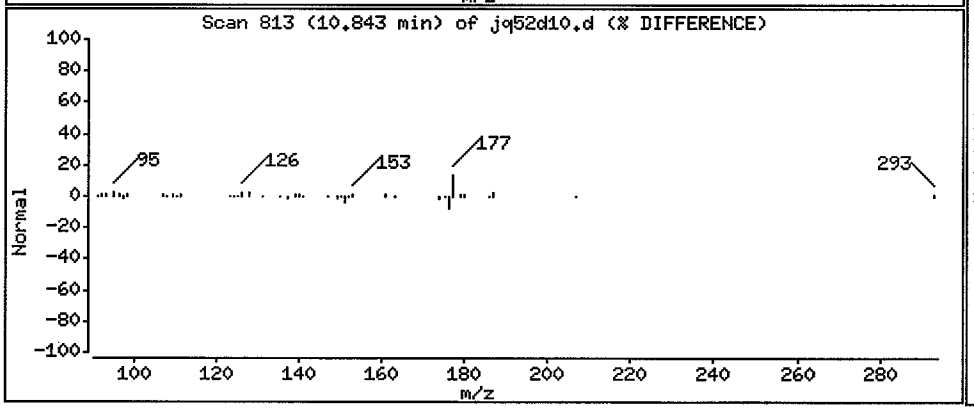
17 Anthracene

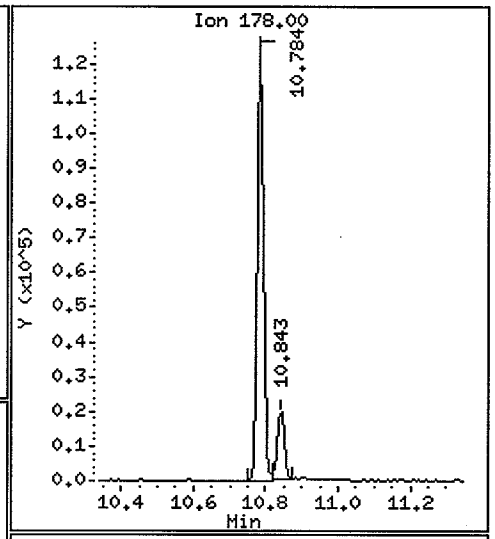
Concentration: 95.48 ug/kg

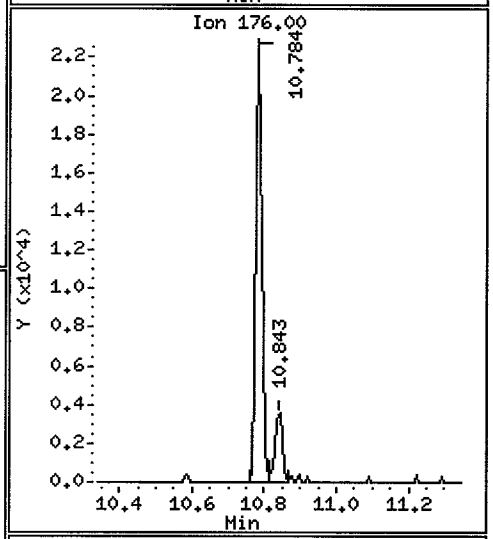


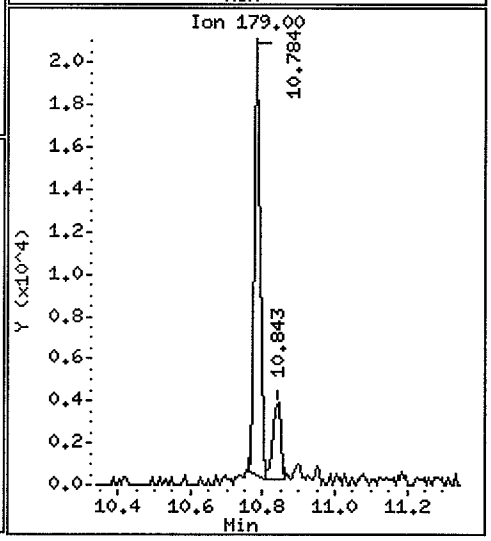












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

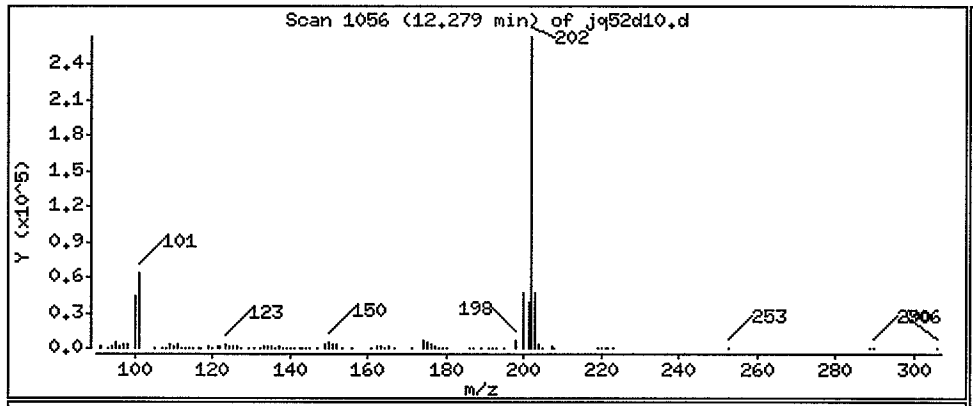
Operator: VTS

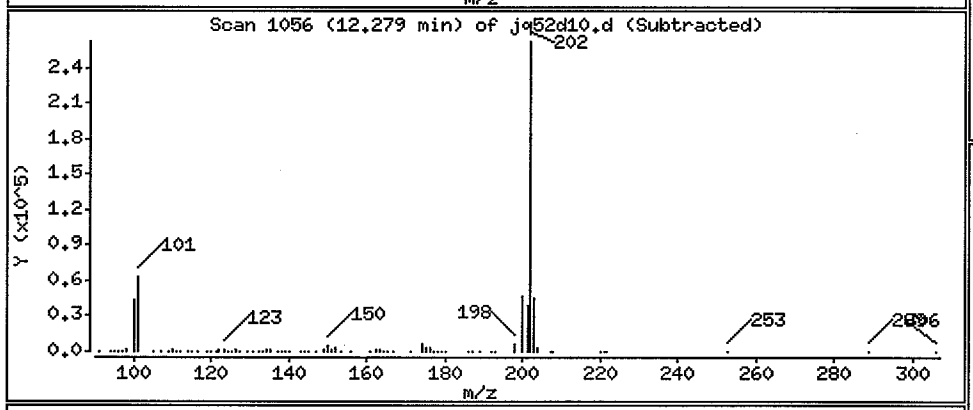
Column phase: ZB-5

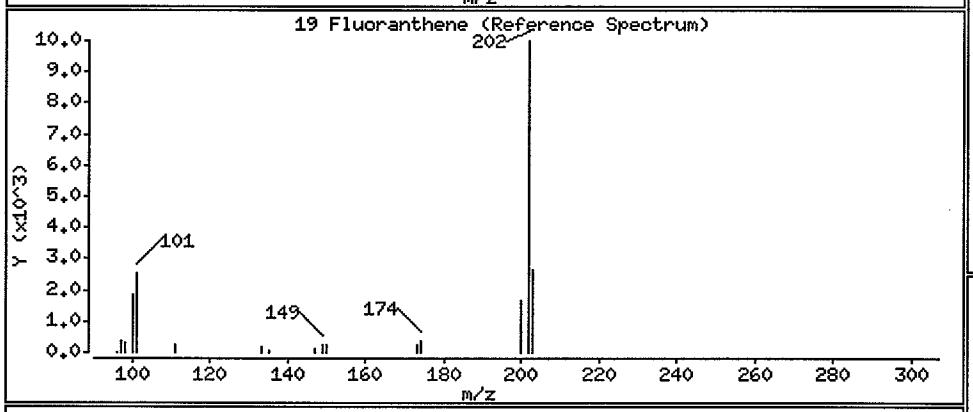
Column diameter: 0.25

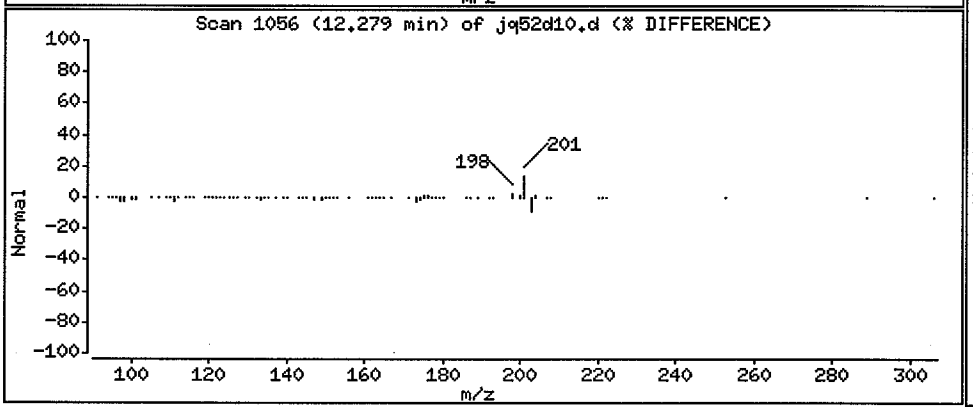
19 Fluoranthene

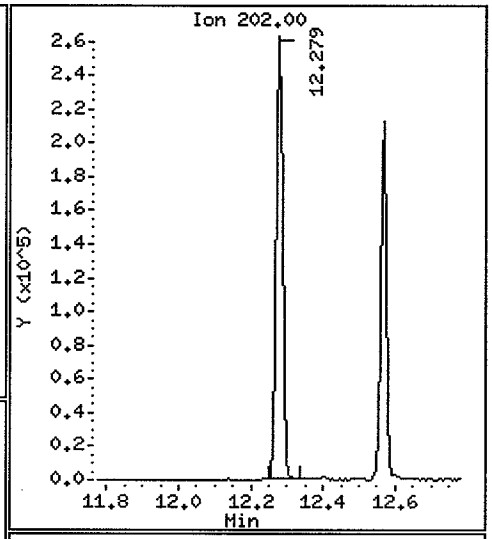
Concentration: 1098 ug/kg

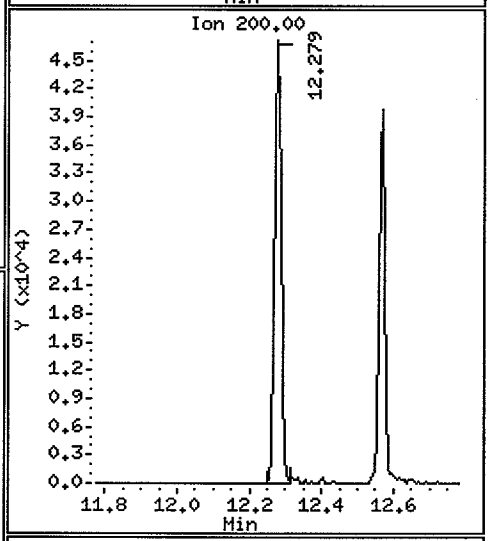


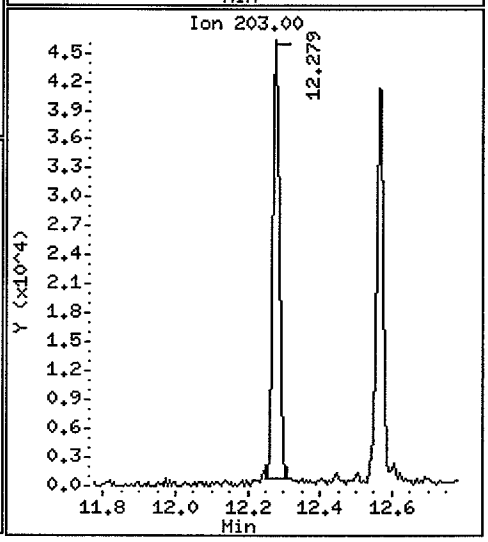












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

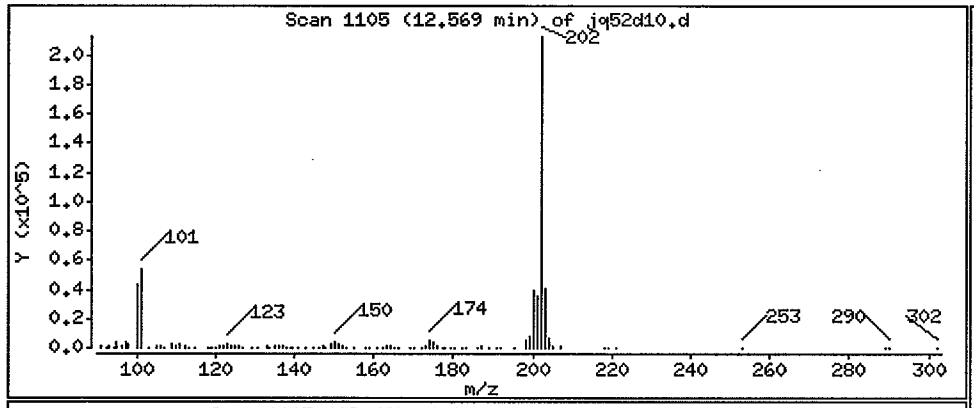
Operator: VTS

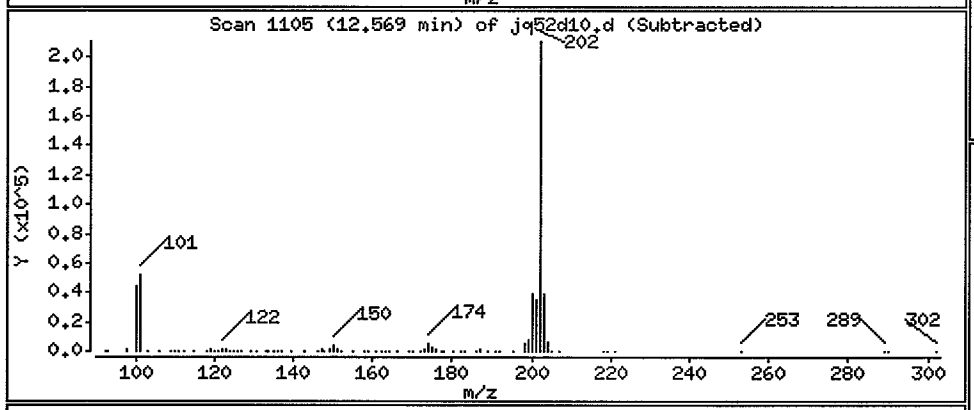
Column phase: ZB-5

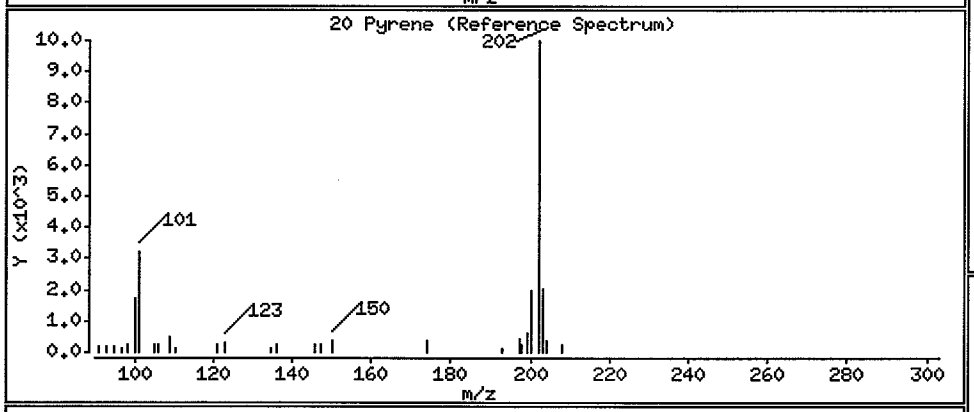
Column diameter: 0.25

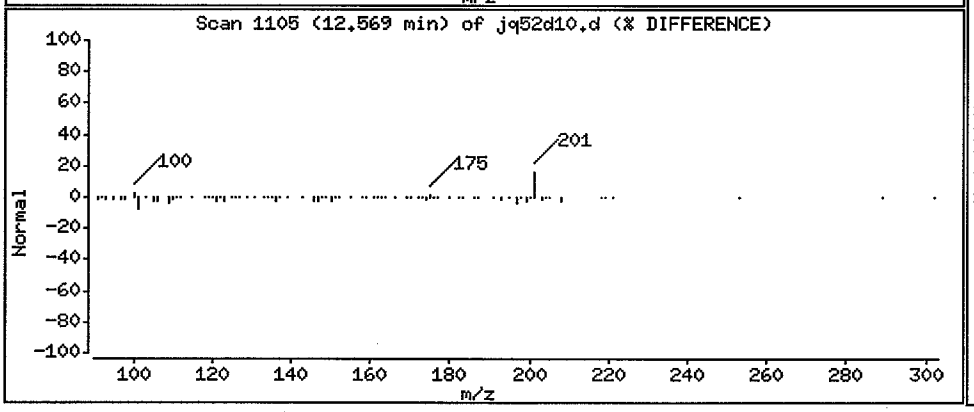
20 Pyrene

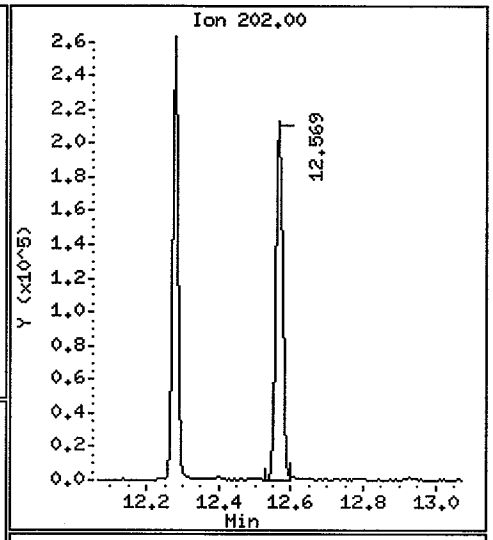
Concentration: 901.5 ug/kg

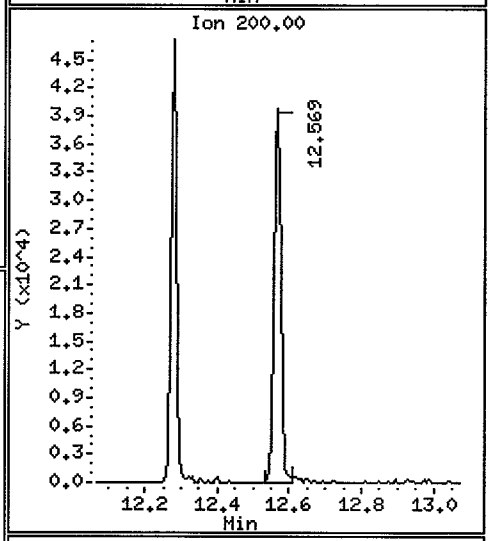


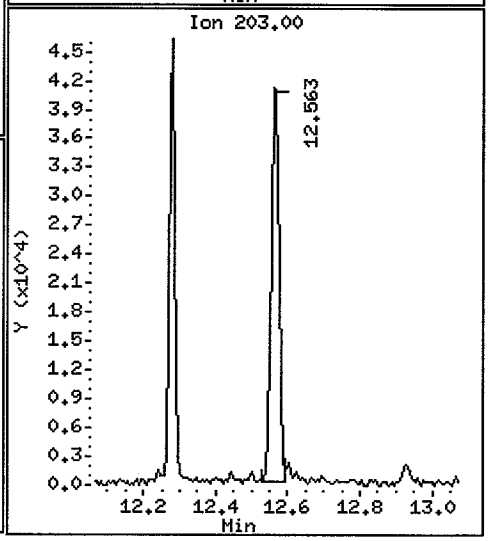












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

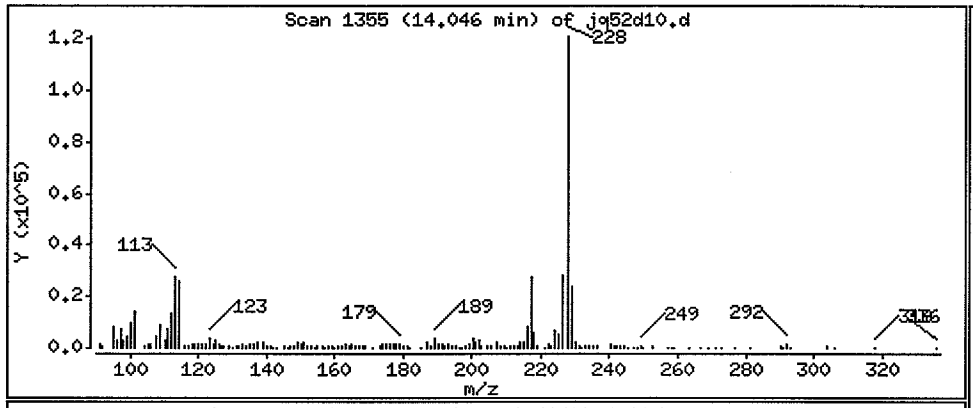
Operator: VTS

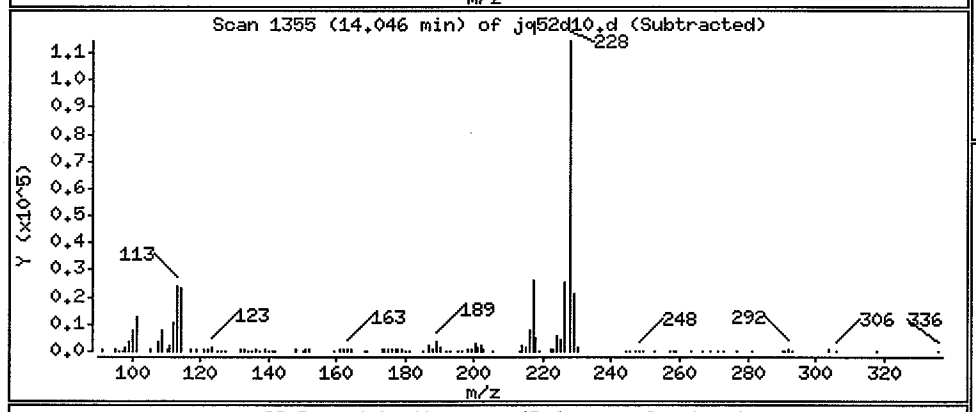
Column phase: ZB-5

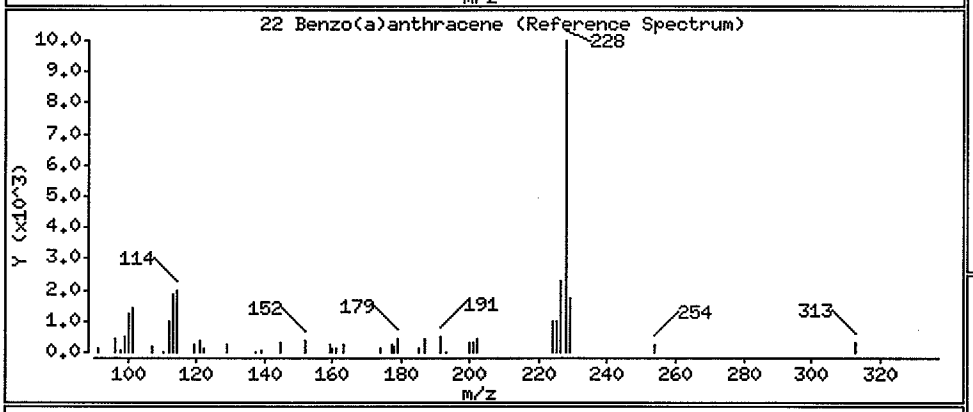
Column diameter: 0.25

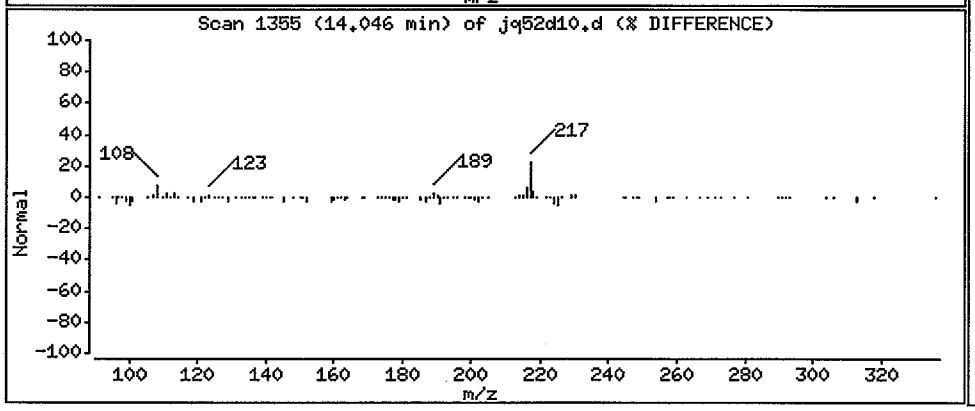
22 Benzo(a)anthracene

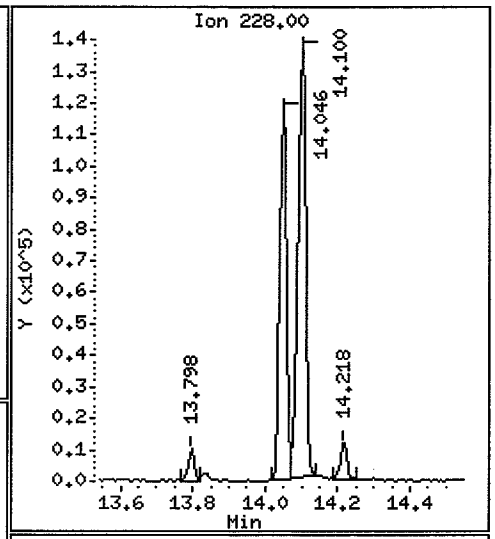
Concentration: 543.1 ug/kg

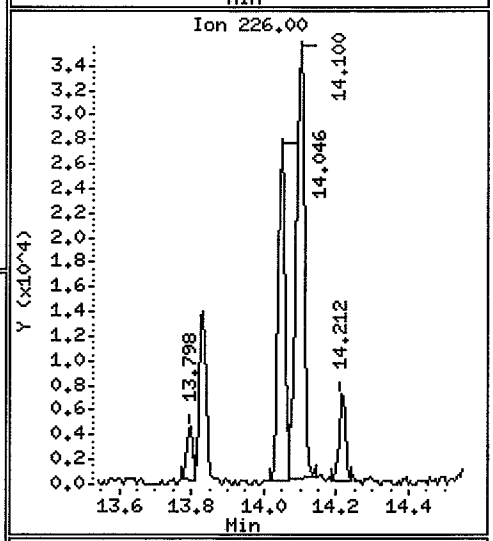


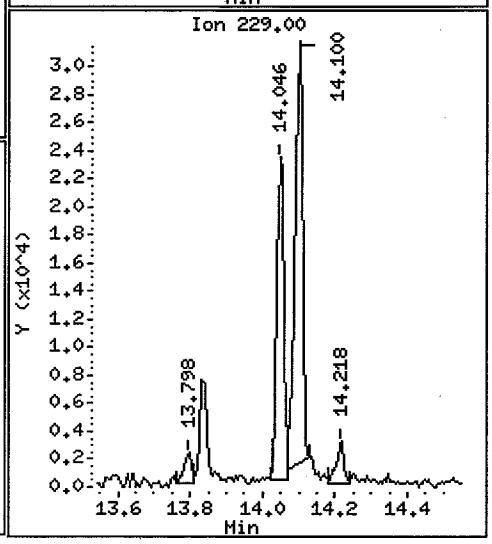












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

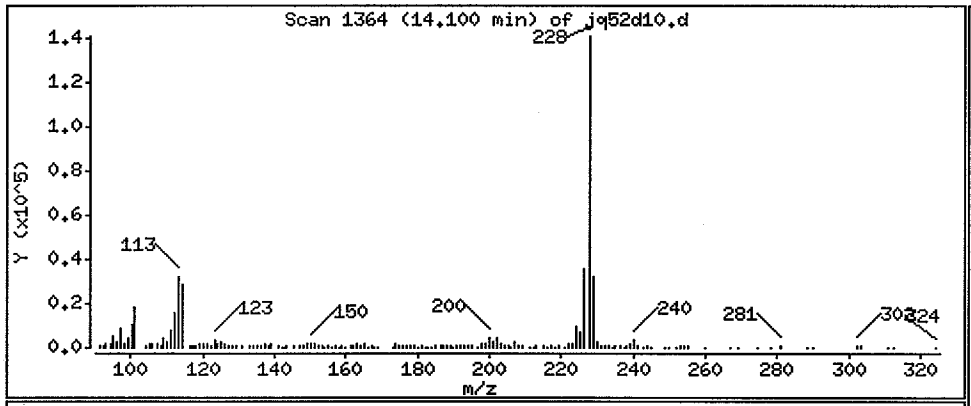
Operator: VTS

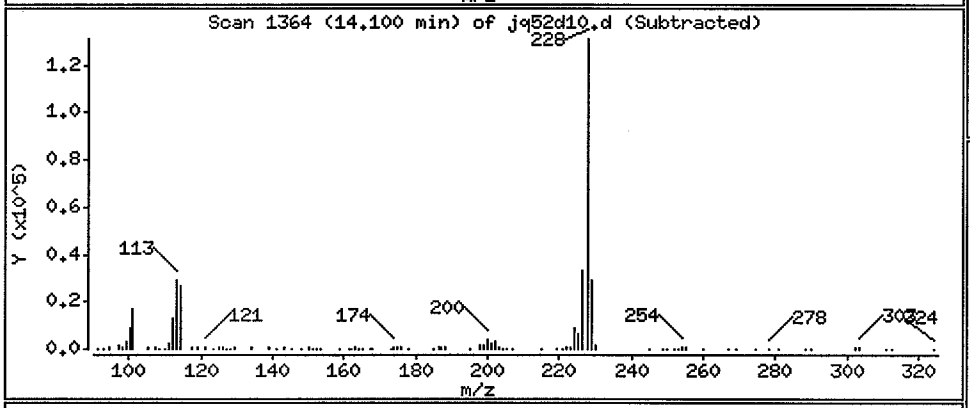
Column phase: ZB-5

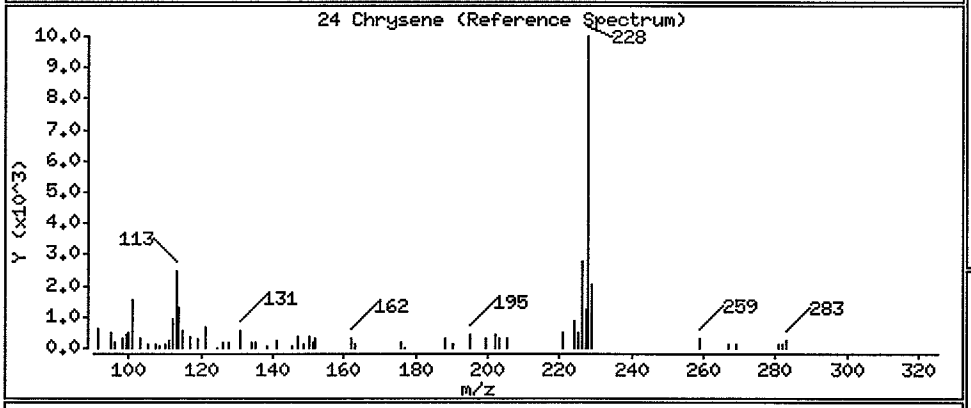
Column diameter: 0.25

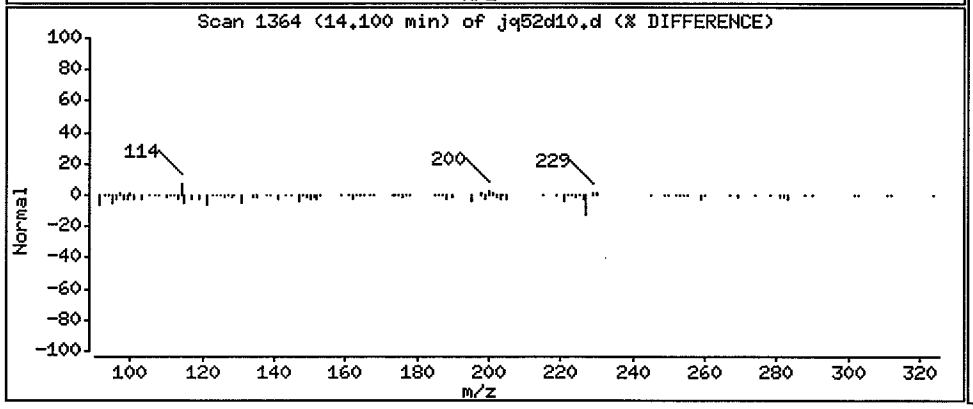
24 Chrysene

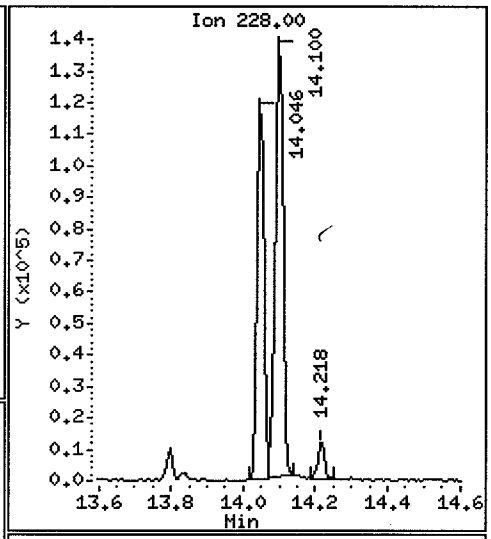
Concentration: 778.0 ug/kg

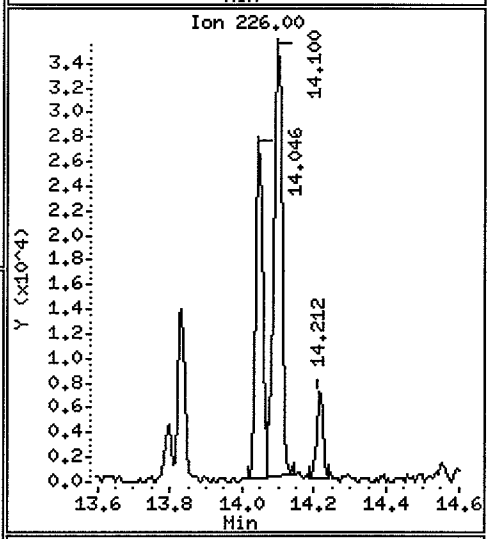


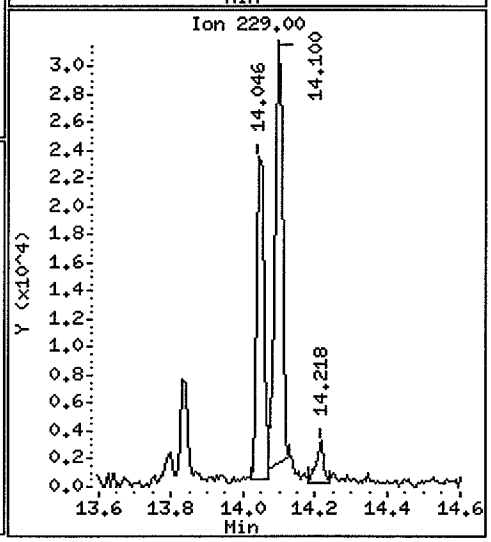












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

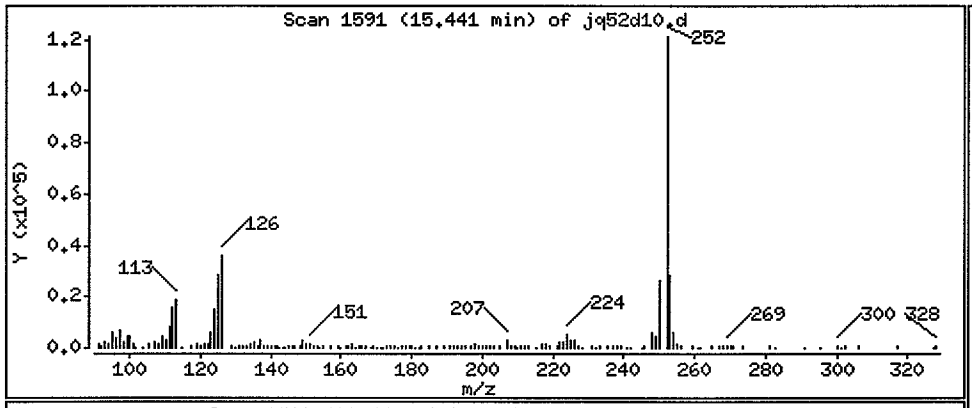
Operator: VTS

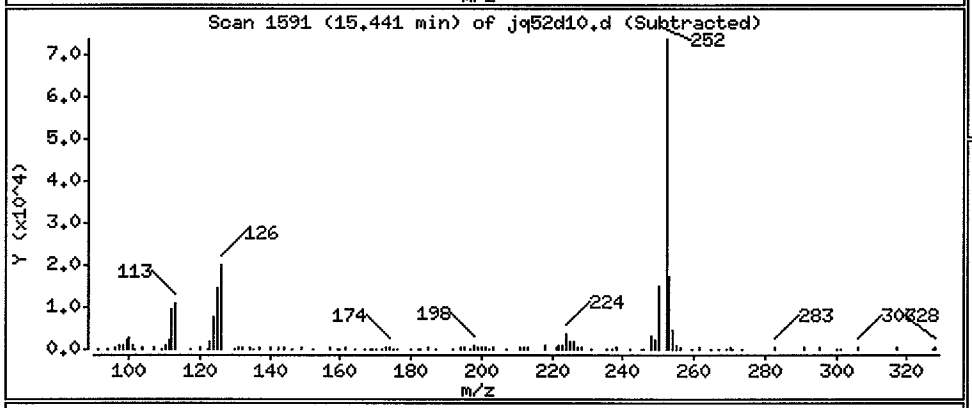
Column phase: ZB-5

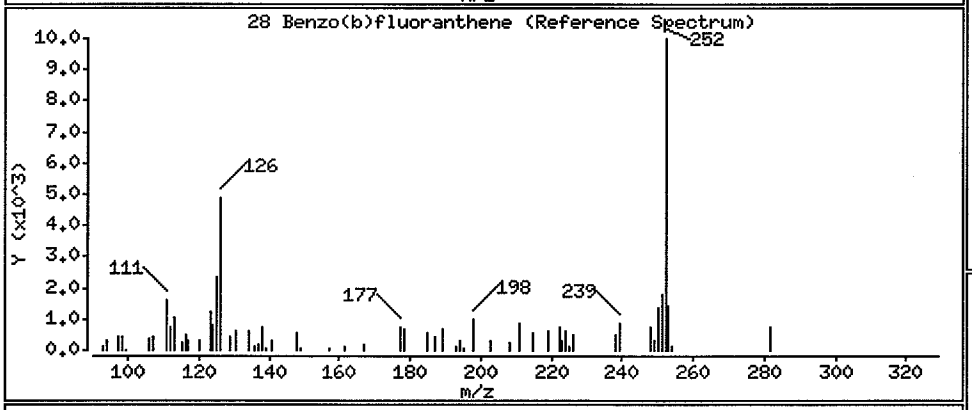
Column diameter: 0.25

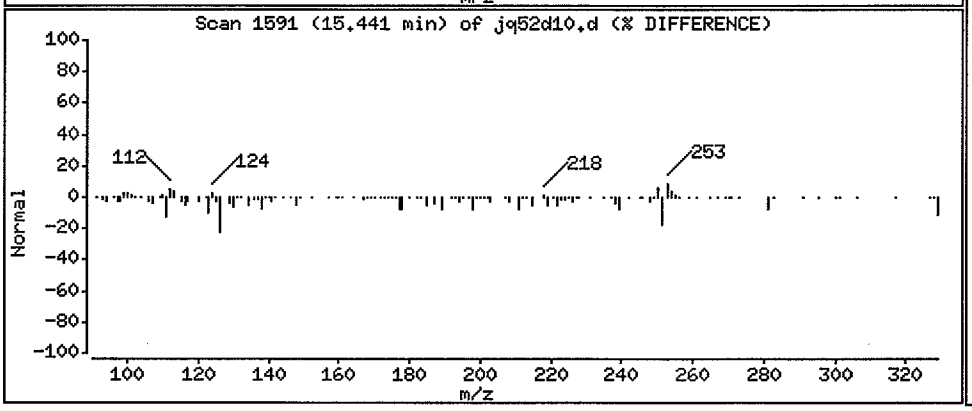
28 Benzo(b)fluoranthene

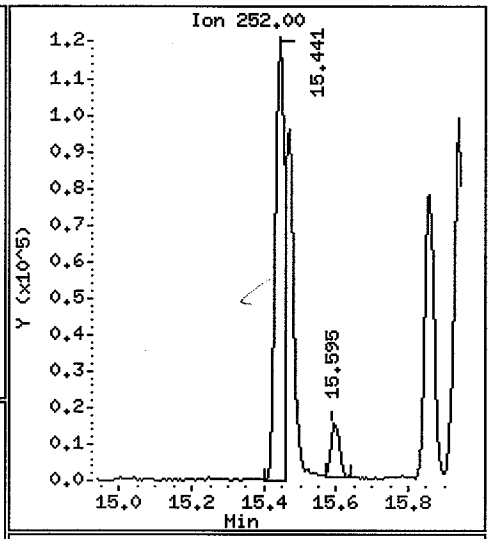
Concentration: 829.8 ug/kg

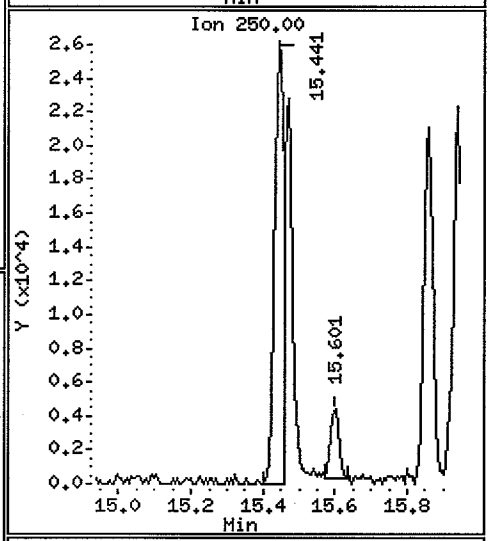


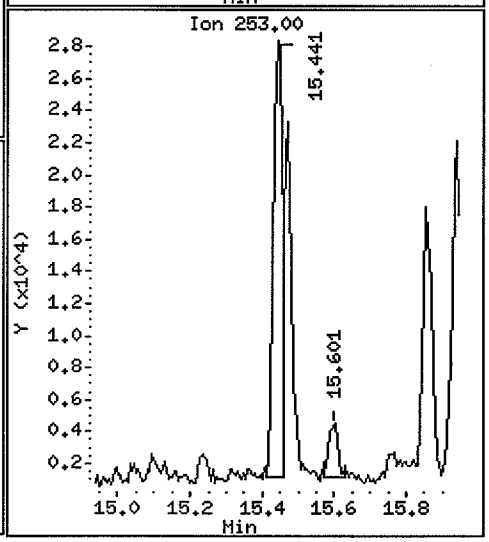












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

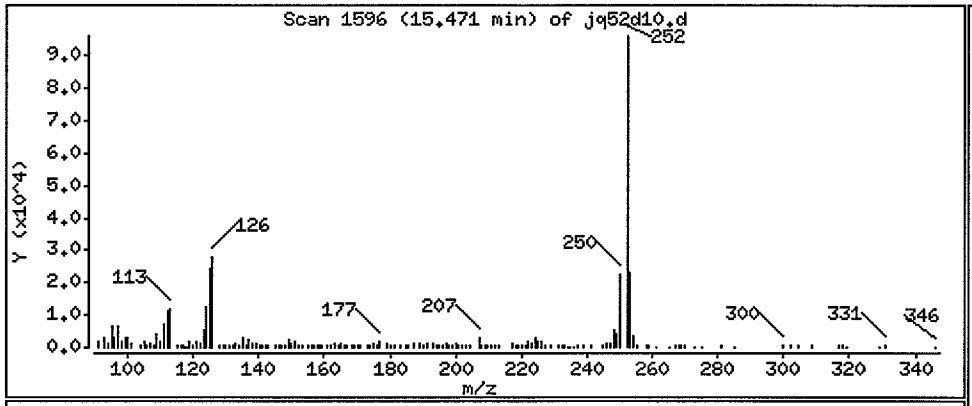
Operator: VTS

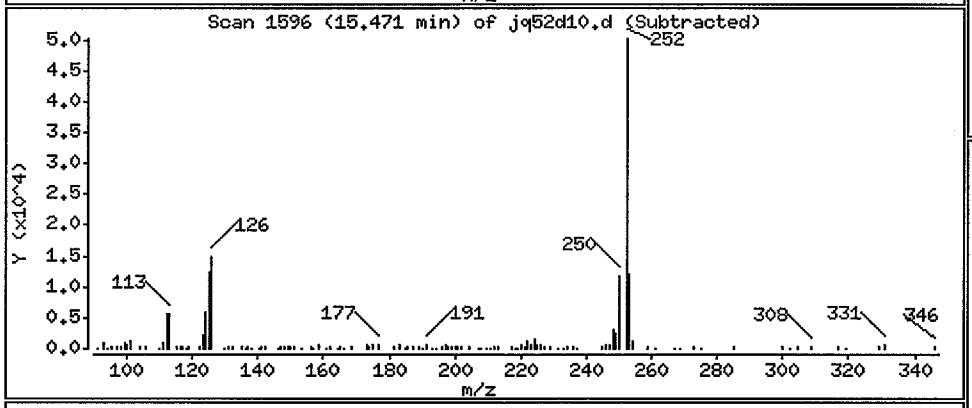
Column phase: ZB-5

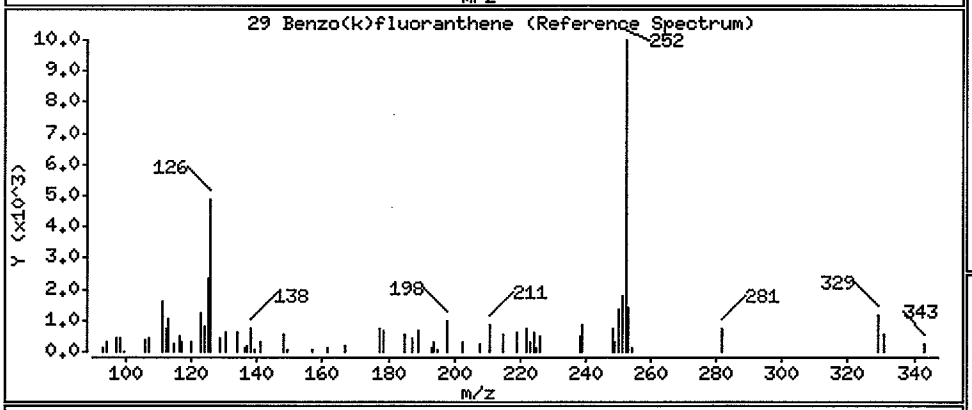
Column diameter: 0.25

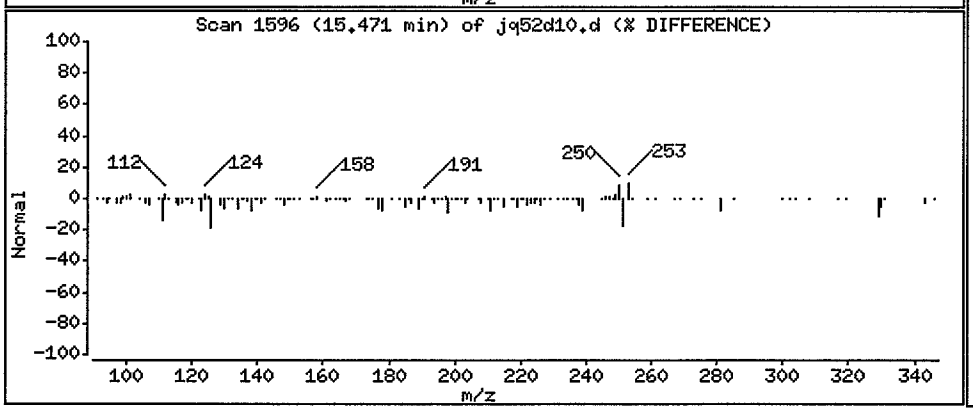
29 Benzo(k)fluoranthene

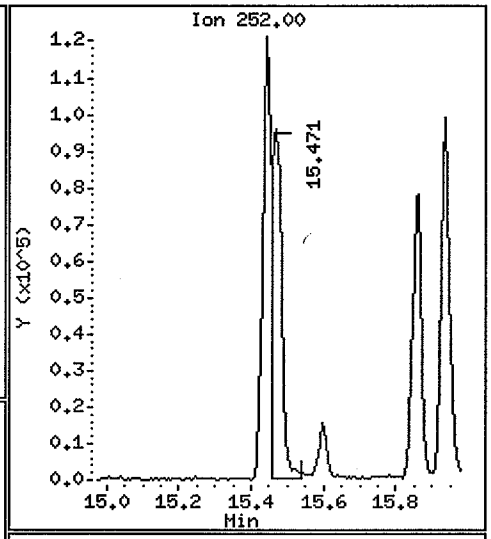
Concentration: 625.7 ug/kg

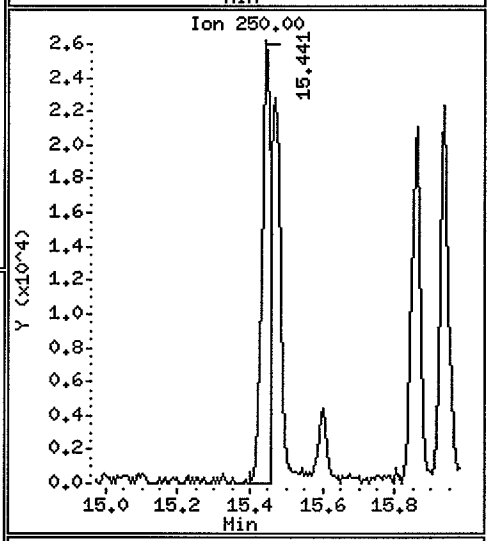


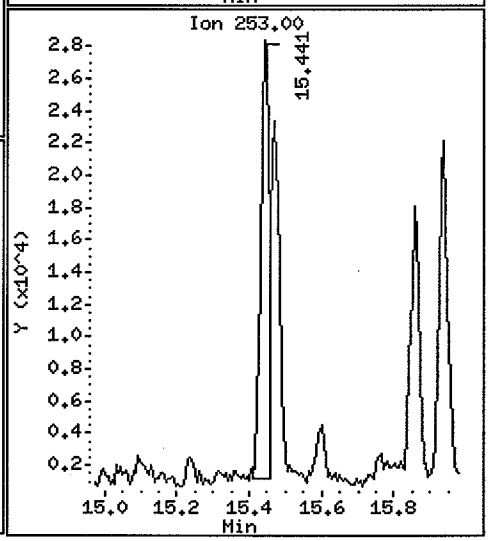












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

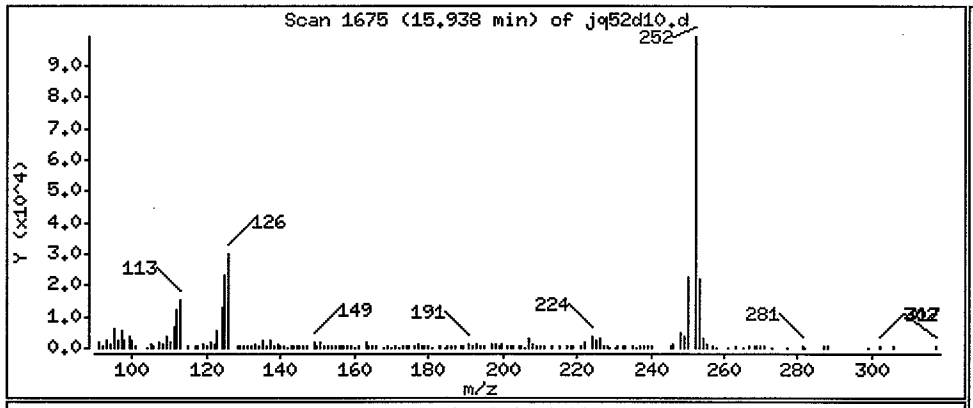
Operator: VTS

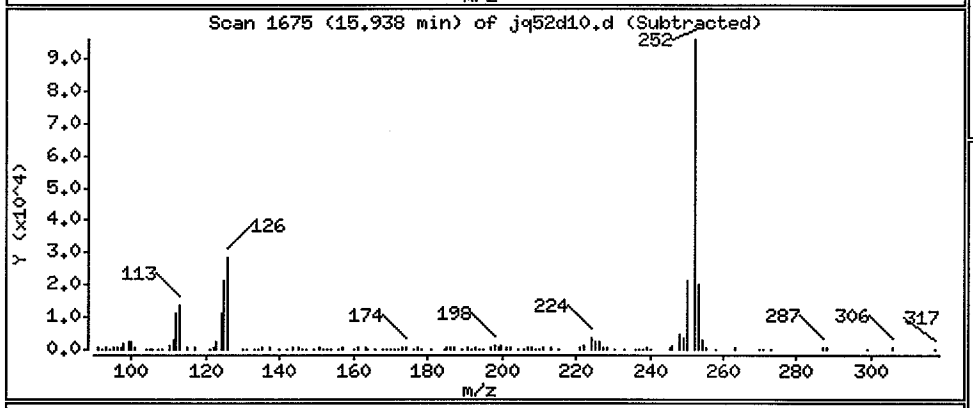
Column phase: ZB-5

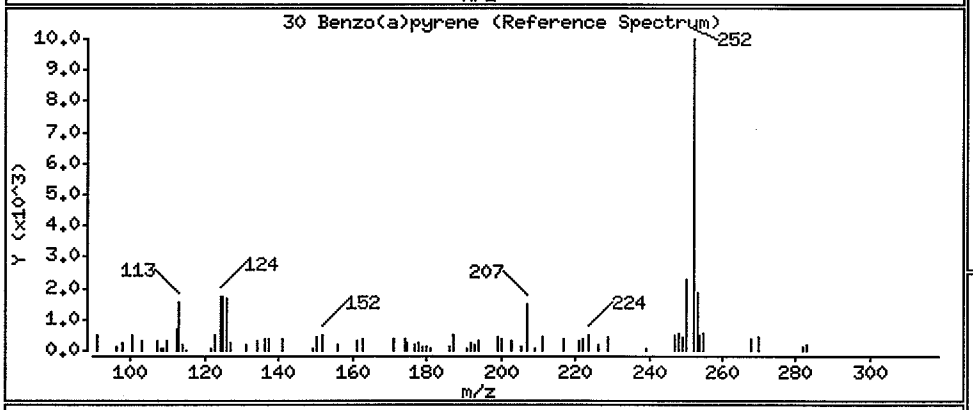
Column diameter: 0.25

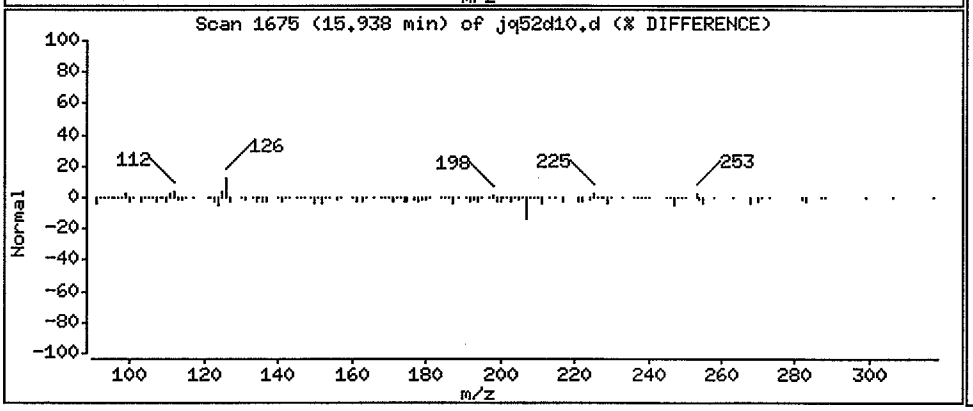
30 Benzo(a)pyrene

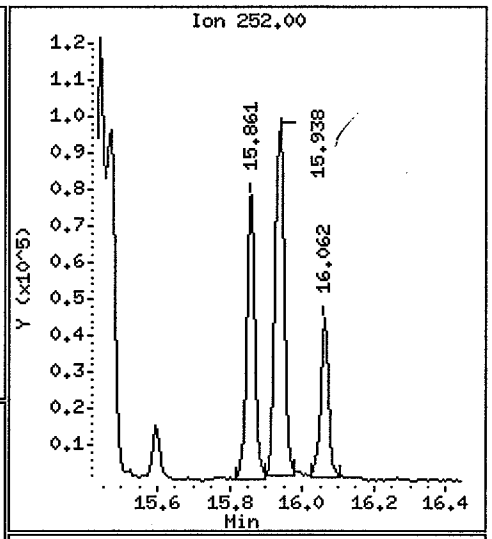
Concentration: 658.1 ug/kg

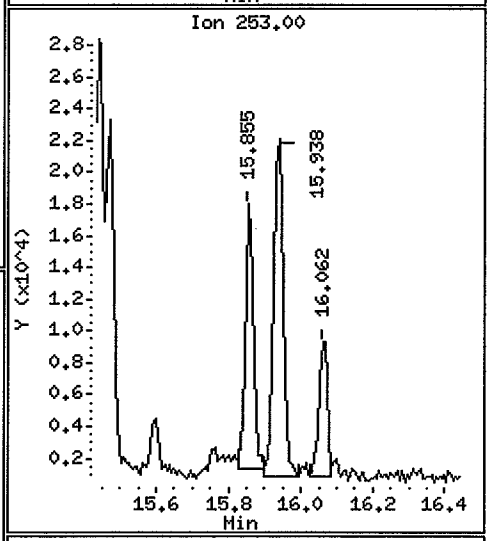


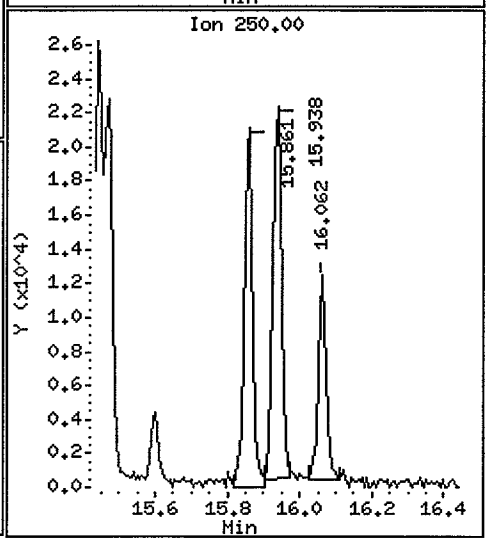












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

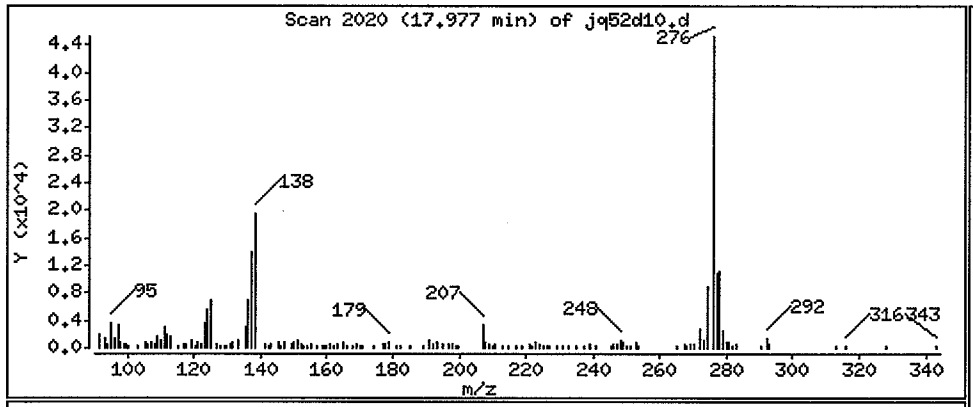
Operator: VTS

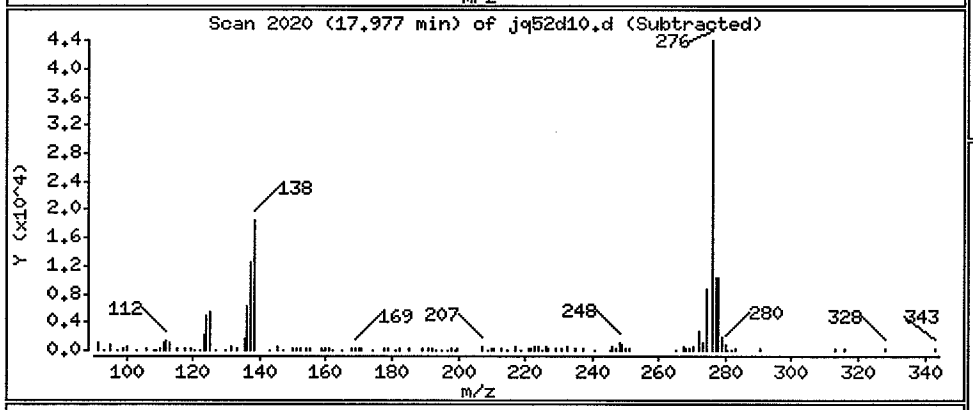
Column phase: ZB-5

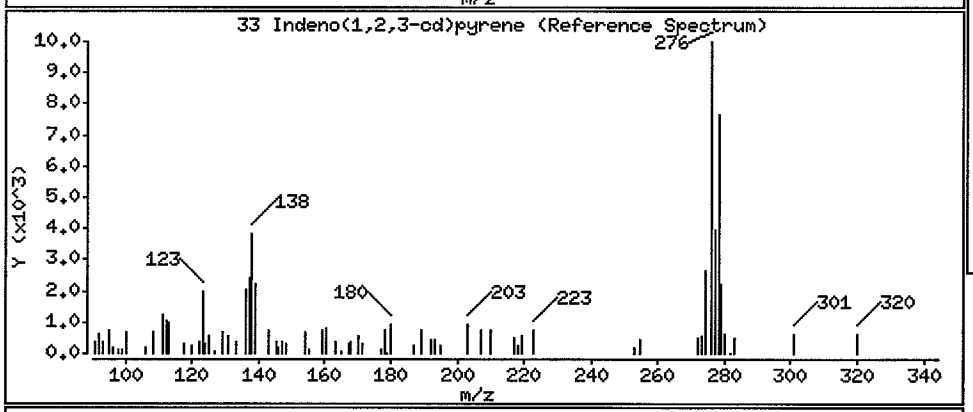
Column diameter: 0.25

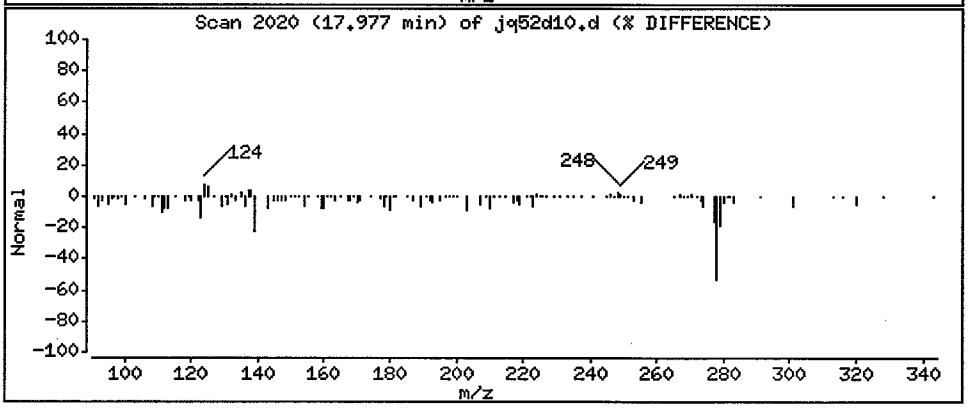
33 Indeno(1,2,3-cd)pyrene

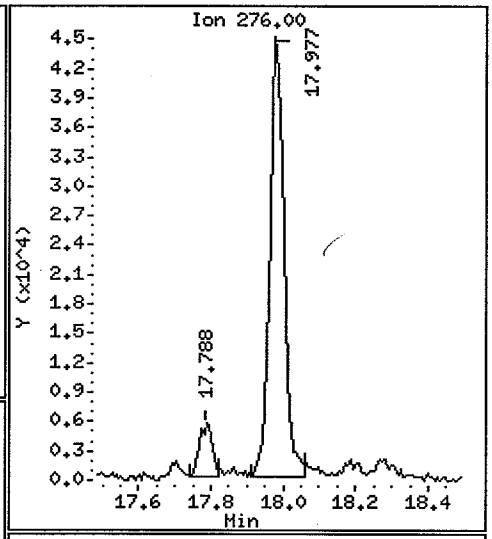
Concentration: 438.7 ug/kg

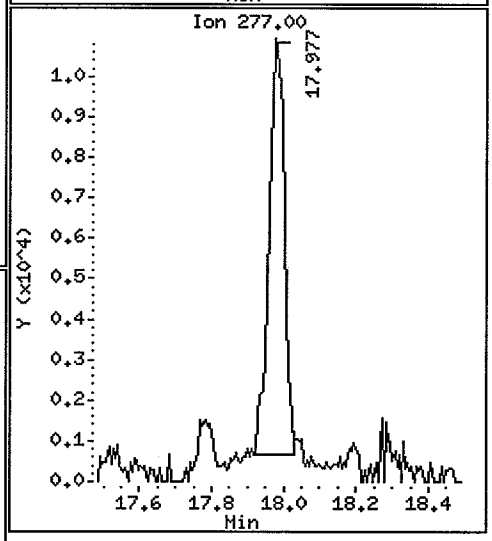












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

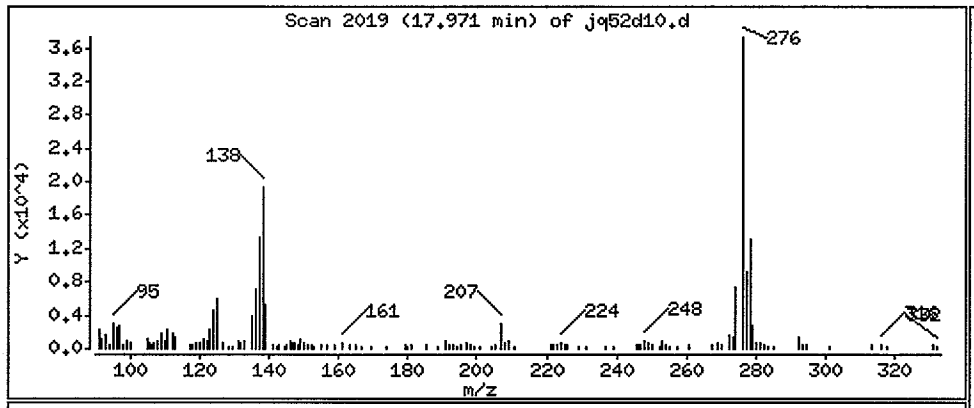
Operator: VTS

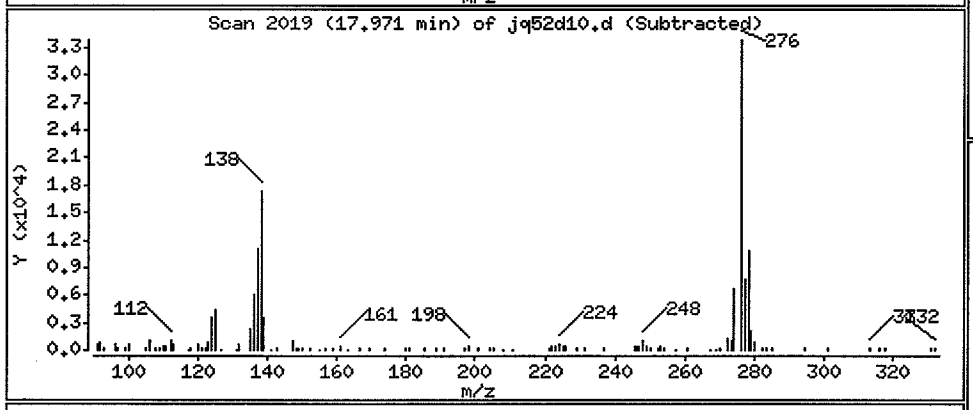
Column phase: ZB-5

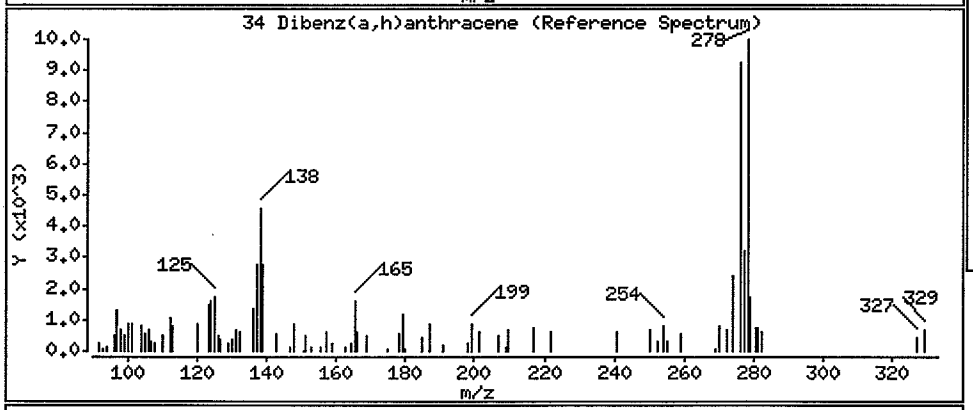
Column diameter: 0.25

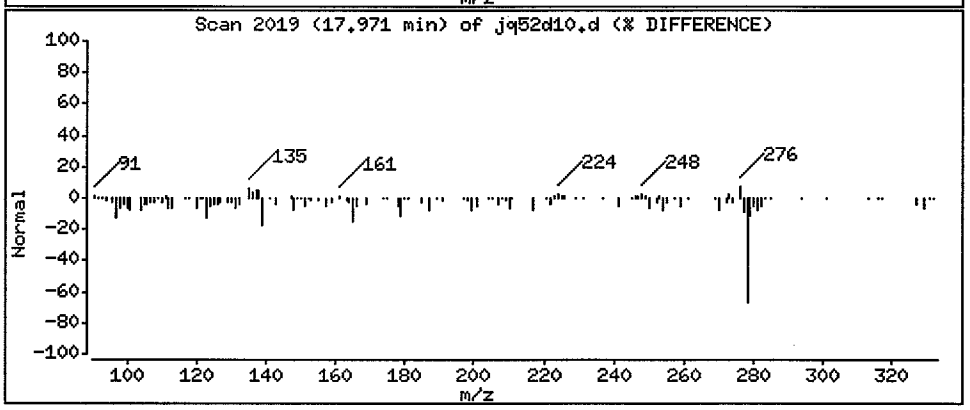
34 Dibenz(a,h)anthracene

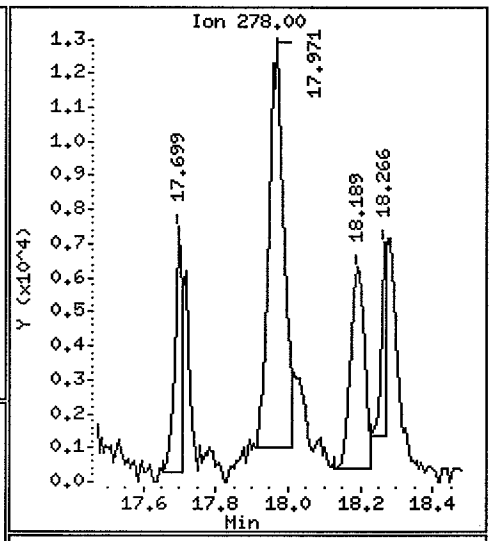
Concentration: 150.5 ug/kg

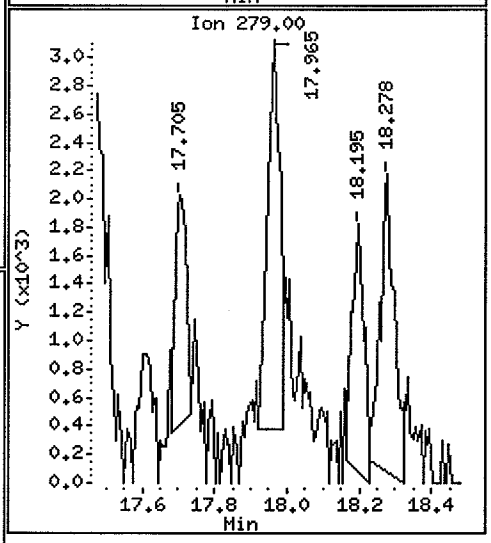












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

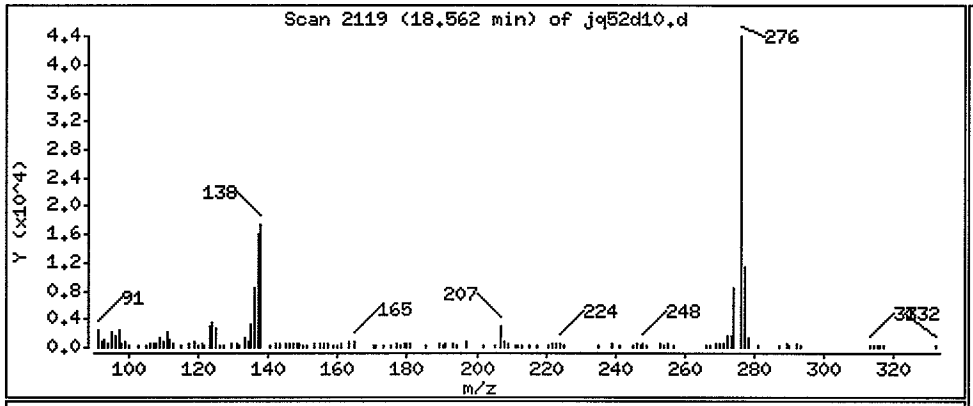
Operator: VTS

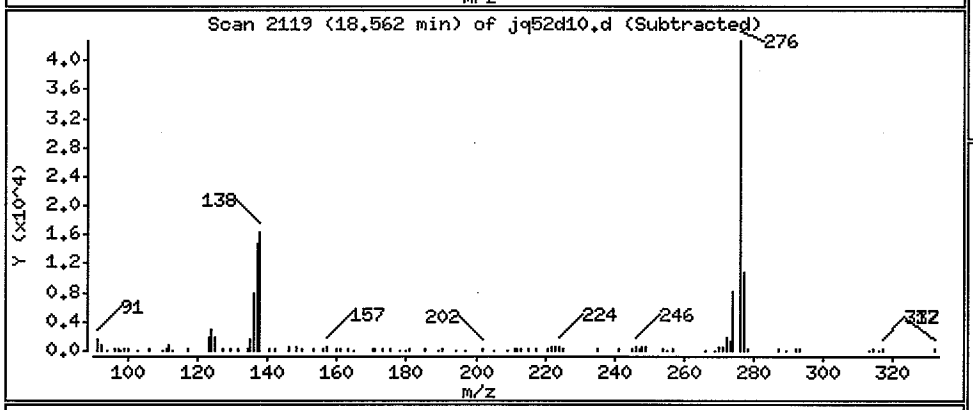
Column phase: ZB-5

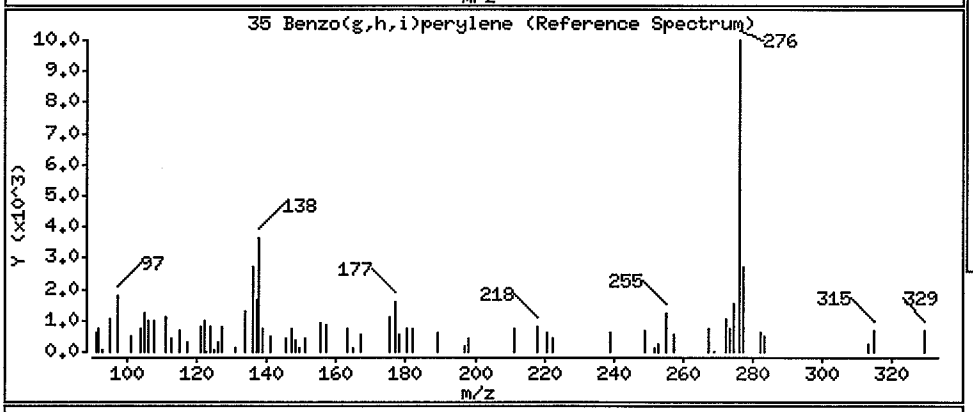
Column diameter: 0.25

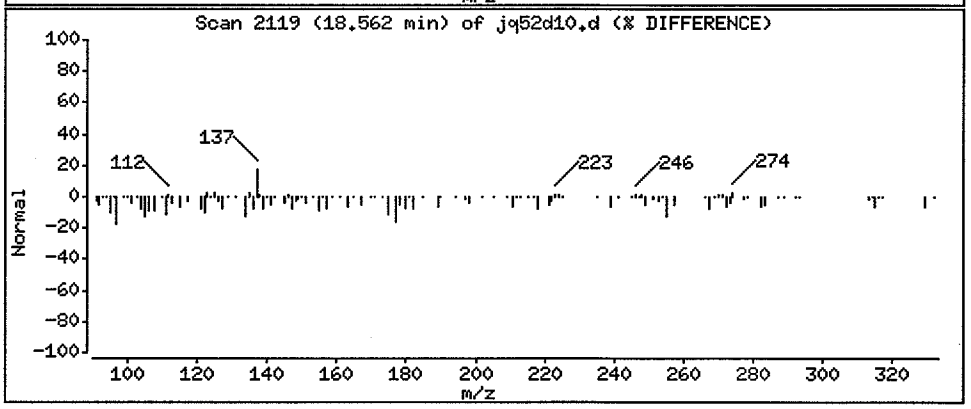
35 Benzo(g,h,i)perylene

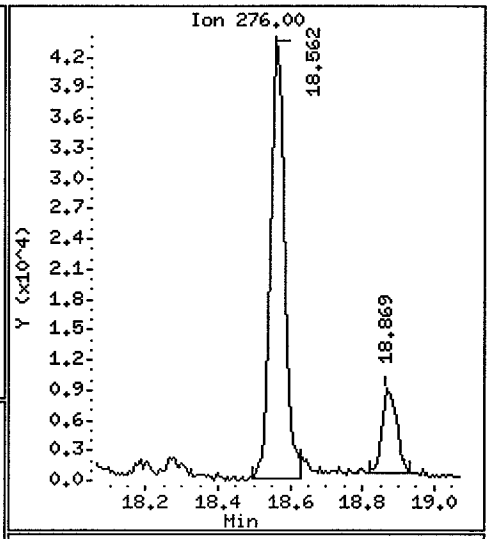
Concentration: 499.2 ug/kg

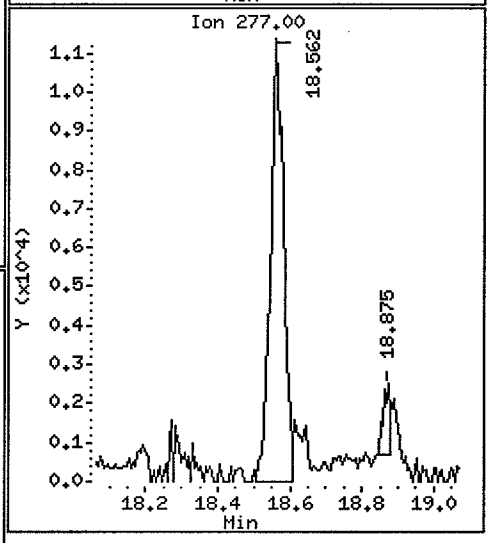












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

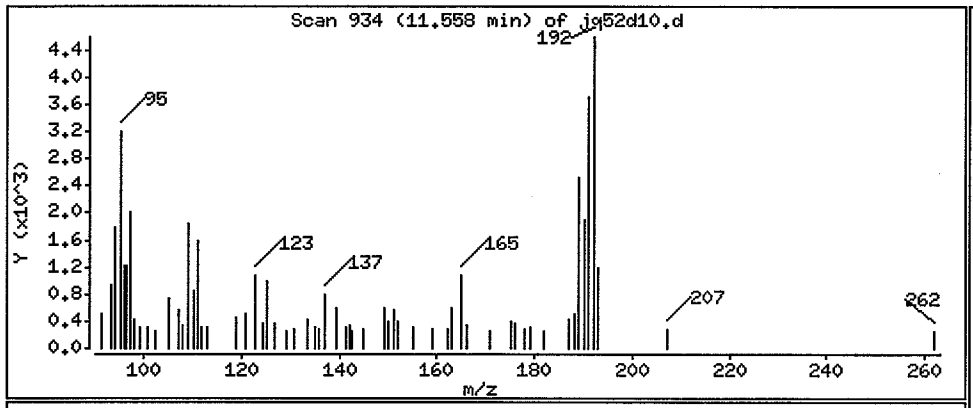
Operator: VTS

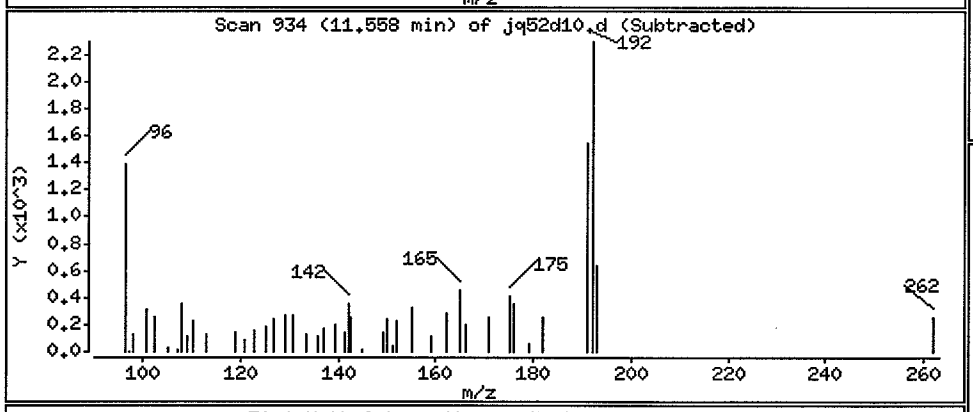
Column phase: ZB-5

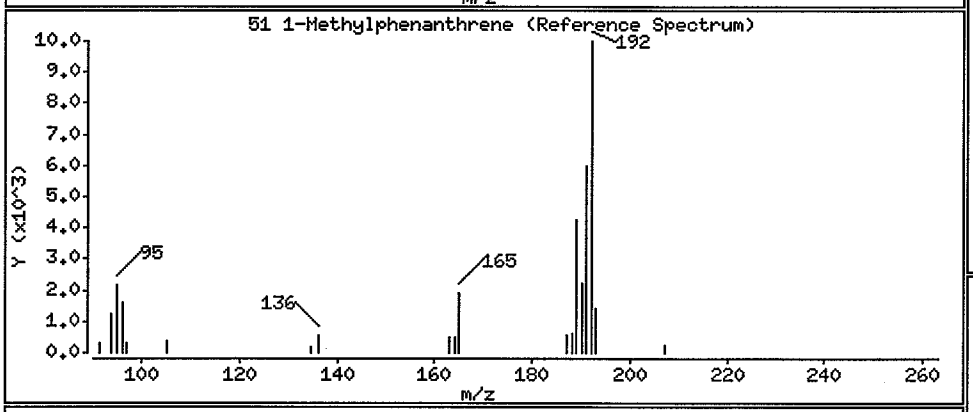
Column diameter: 0.25

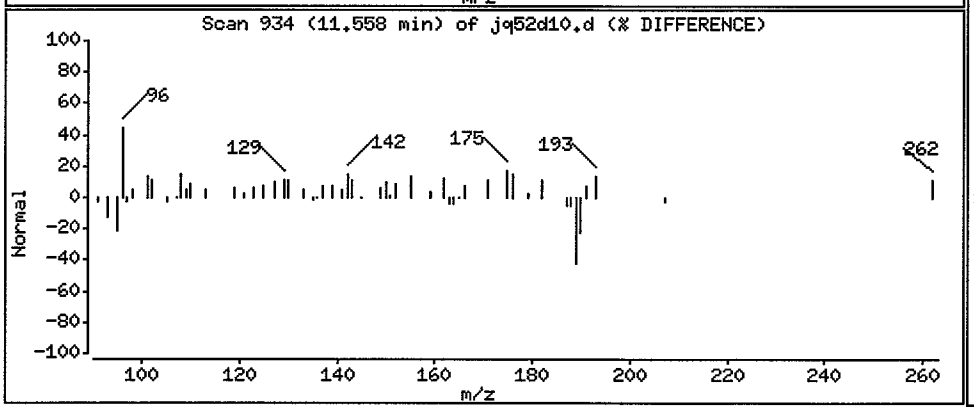
51 1-Methylphenanthrene

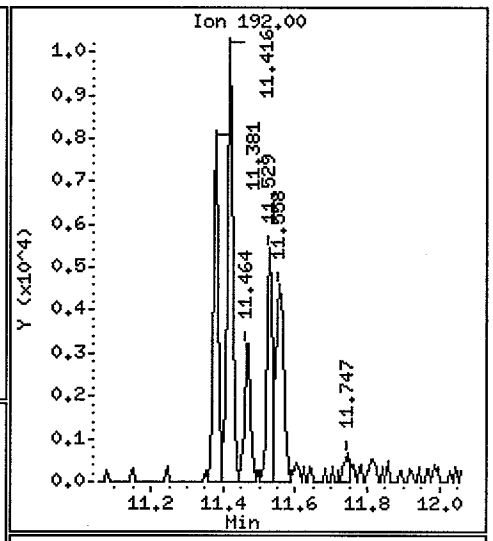
Concentration: 39.46 ug/kg

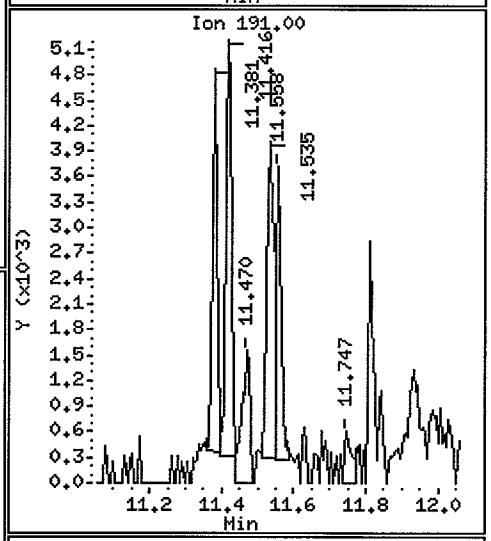


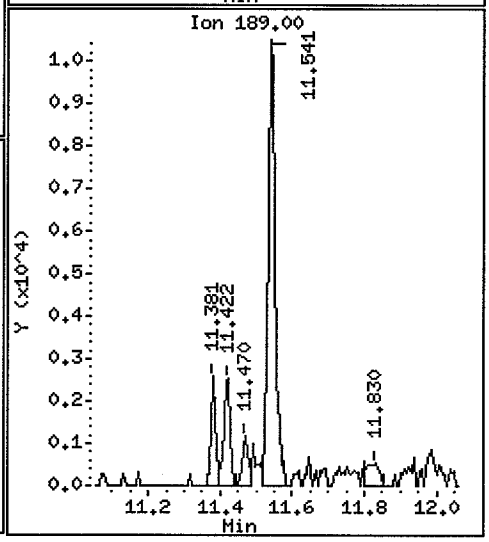












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

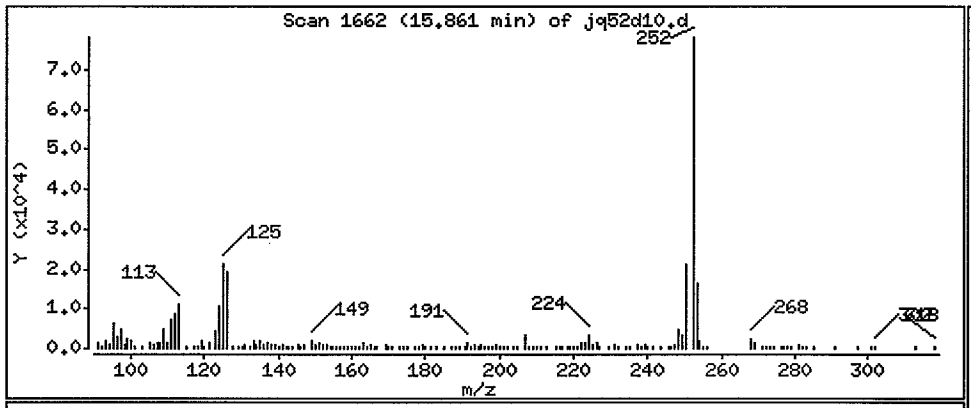
Operator: VTS

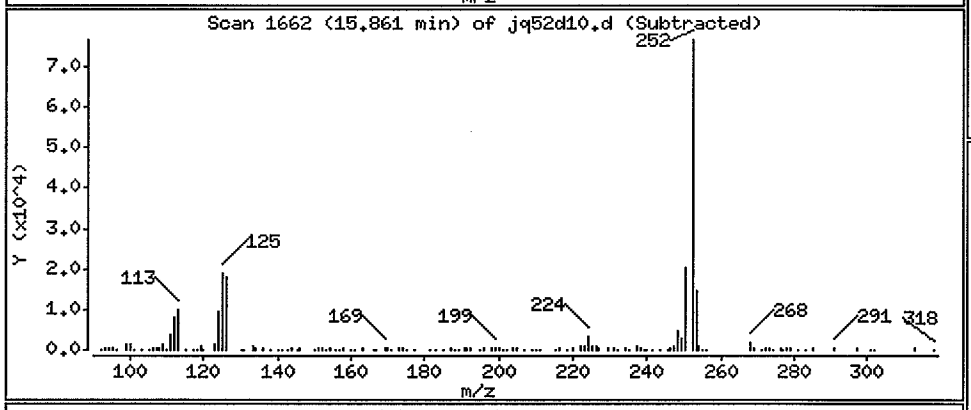
Column phase: ZB-5

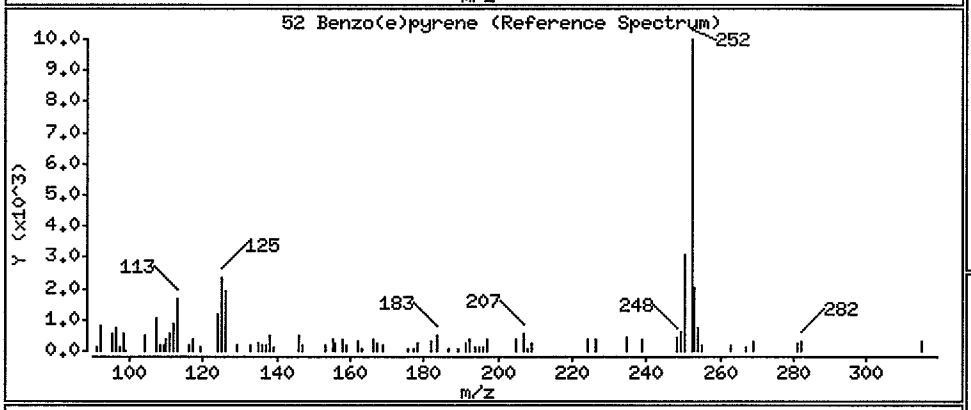
Column diameter: 0.25

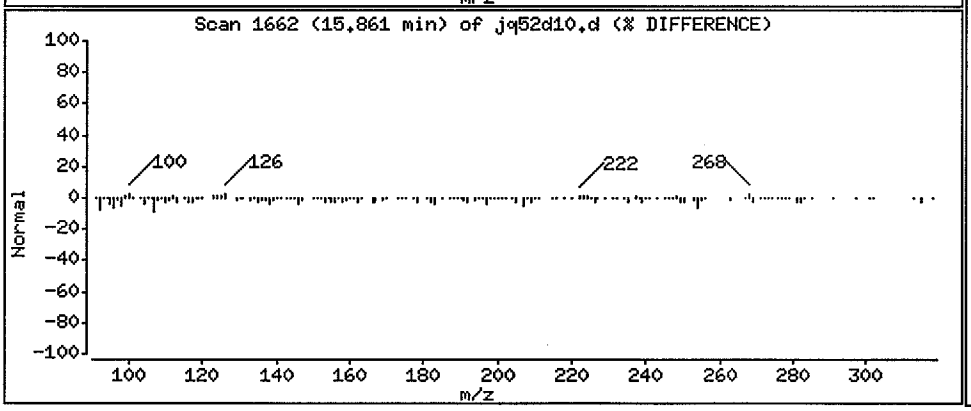
52 Benzo(e)pyrene

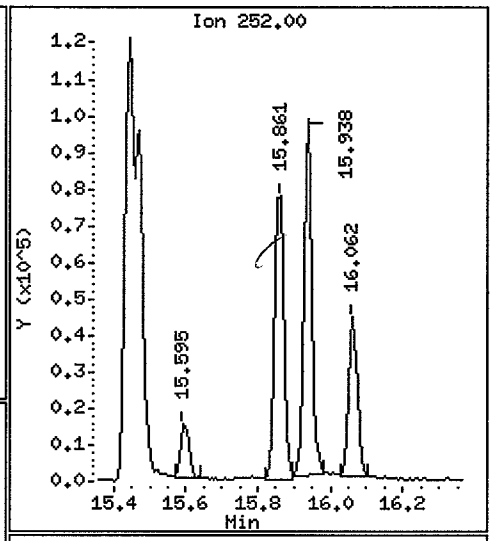
Concentration: 492.9 ug/kg

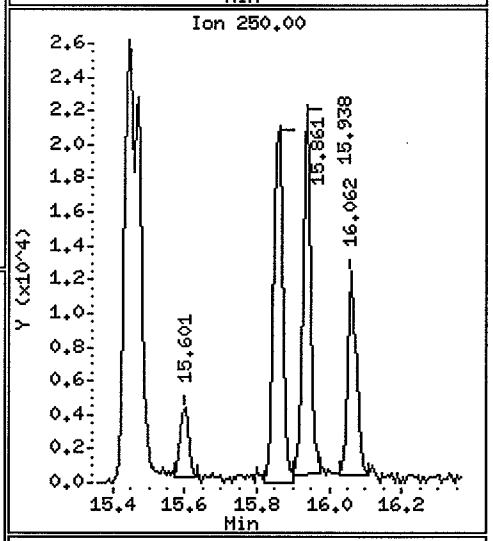


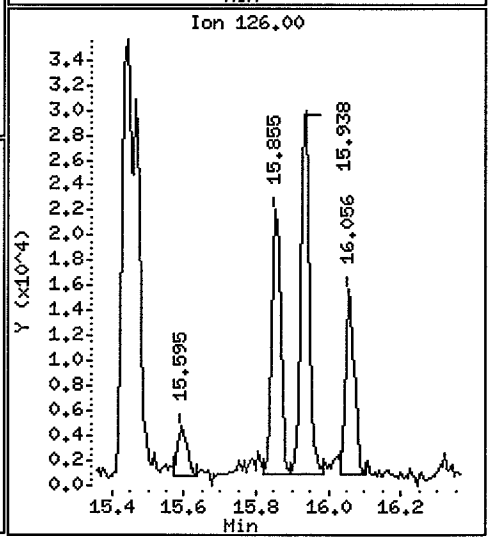












Data File: /chem3/nt1.i/20060808.b/jq52d10.d

Date : 08-AUG-2006 20:12

Client ID: T4-S3-08-C-DUP

Instrument: nt1.i

Sample Info: JQ52D,10

Volume Injected (uL): 1.0

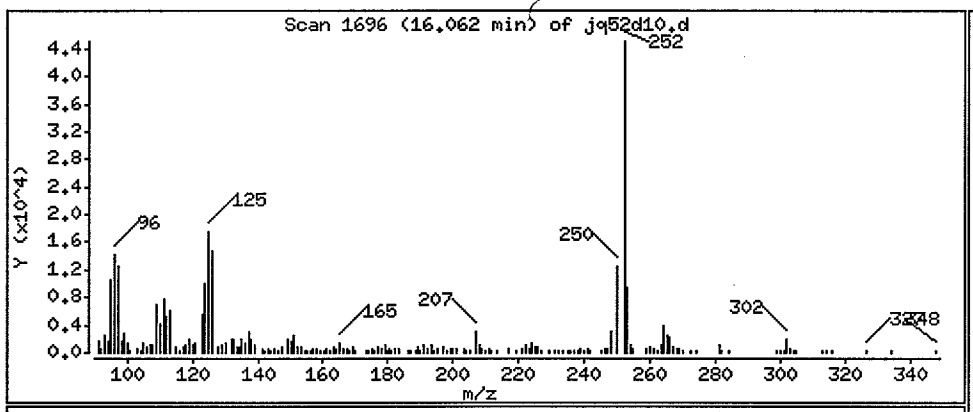
Operator: VTS

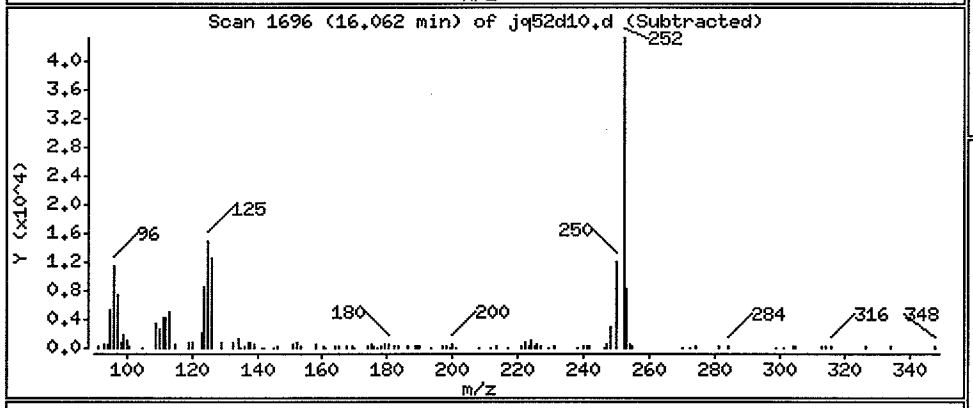
Column phase: ZB-5

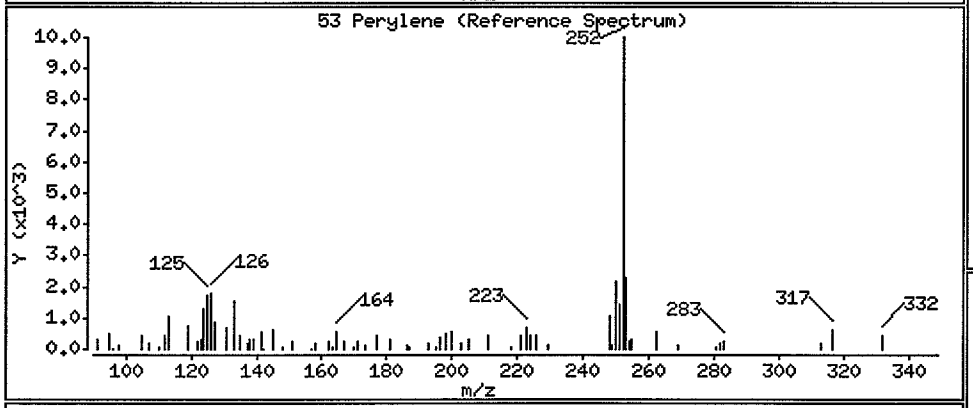
Column diameter: 0.25

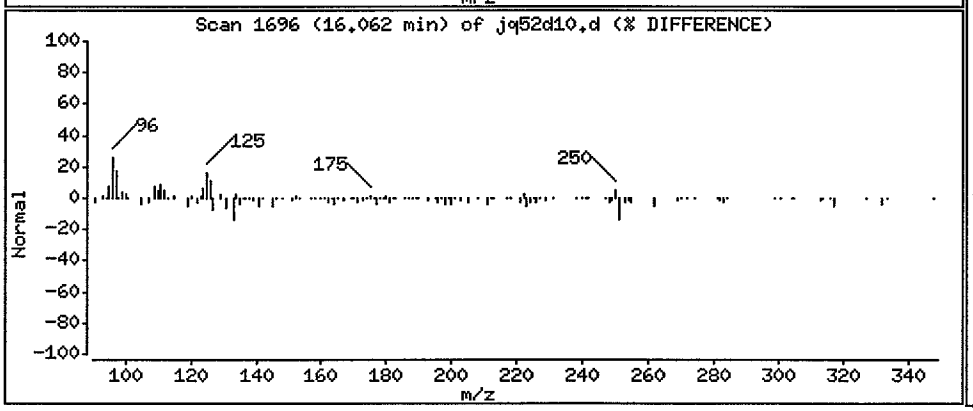
53 Perylene

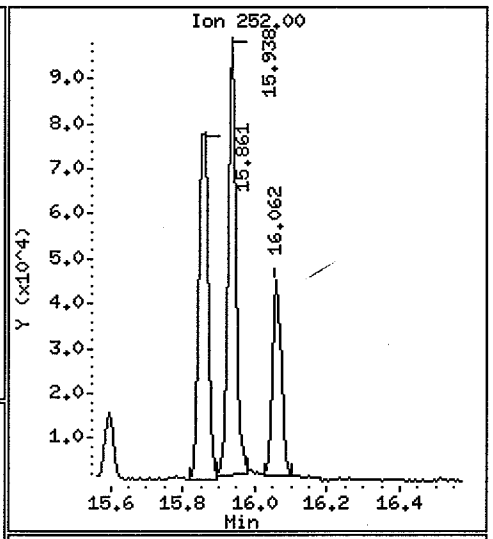
Concentration: 285.9 ug/kg

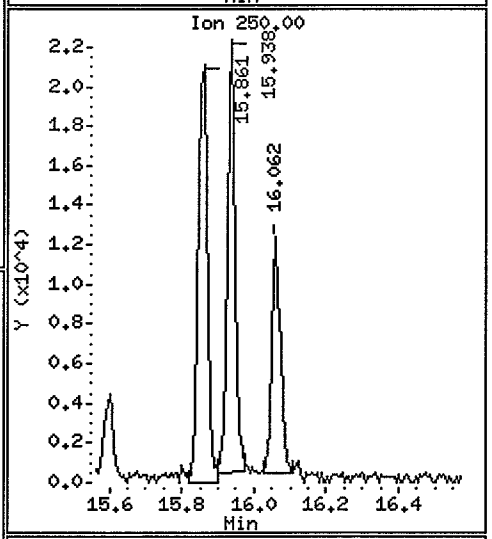


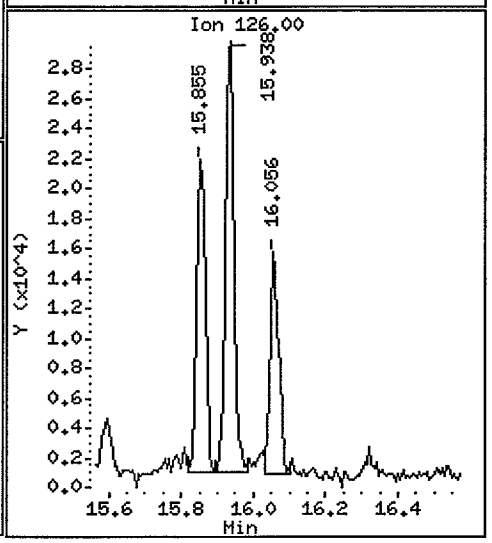












SIM Semivolatile Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ52 — 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

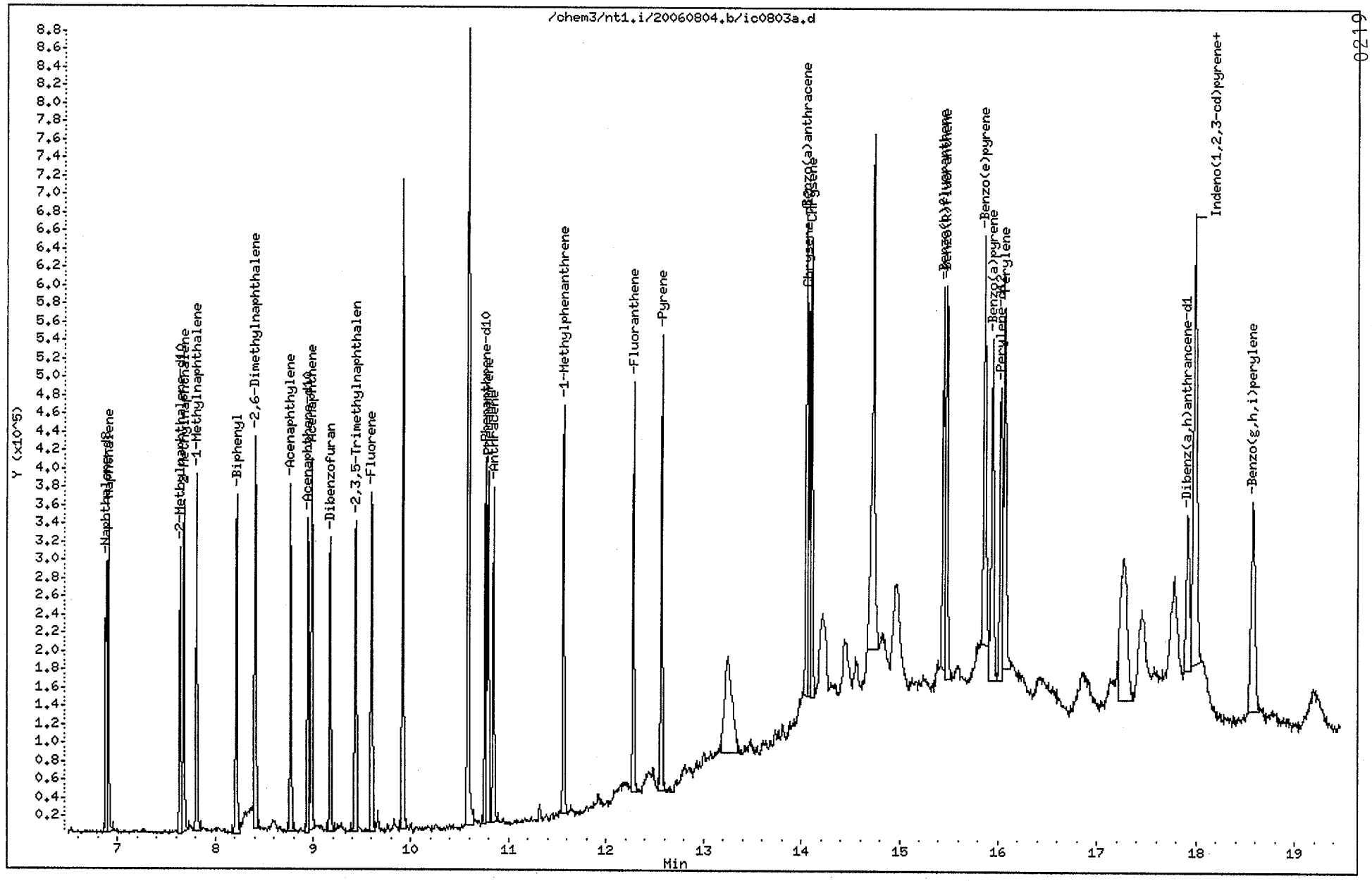
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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



0219

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:

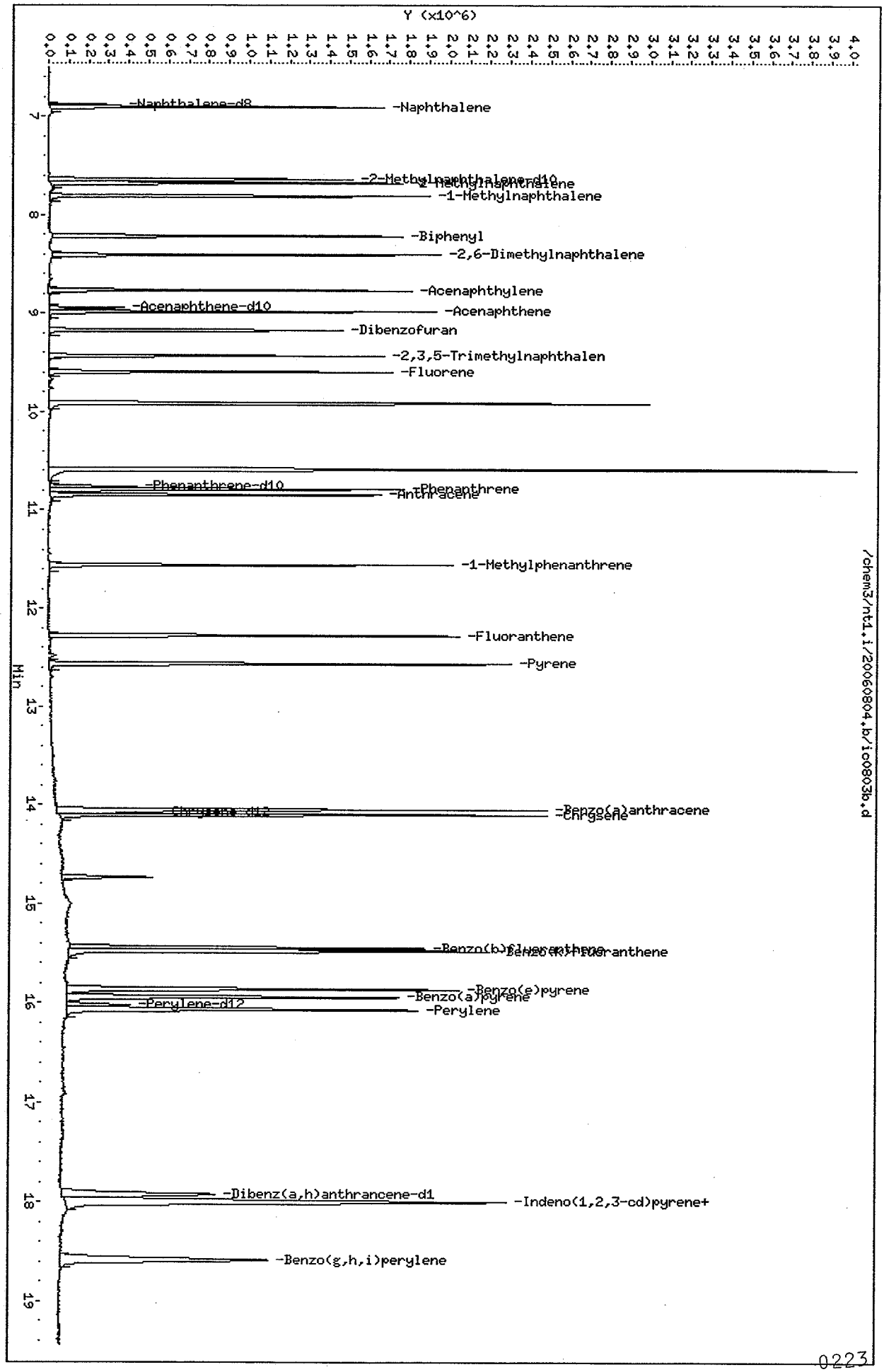
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	258376	15.96
8 Acenaphthene-d10	123591	61796	247182	134818	9.08
15 Phenanthrene-d10	200797	100398	401594	213897	6.52
23 Chrysene-d12	171210	85605	342420	186768	9.09
31 Perylene-d12	183426	91713	366852	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
Column phase: ZB-5

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



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:

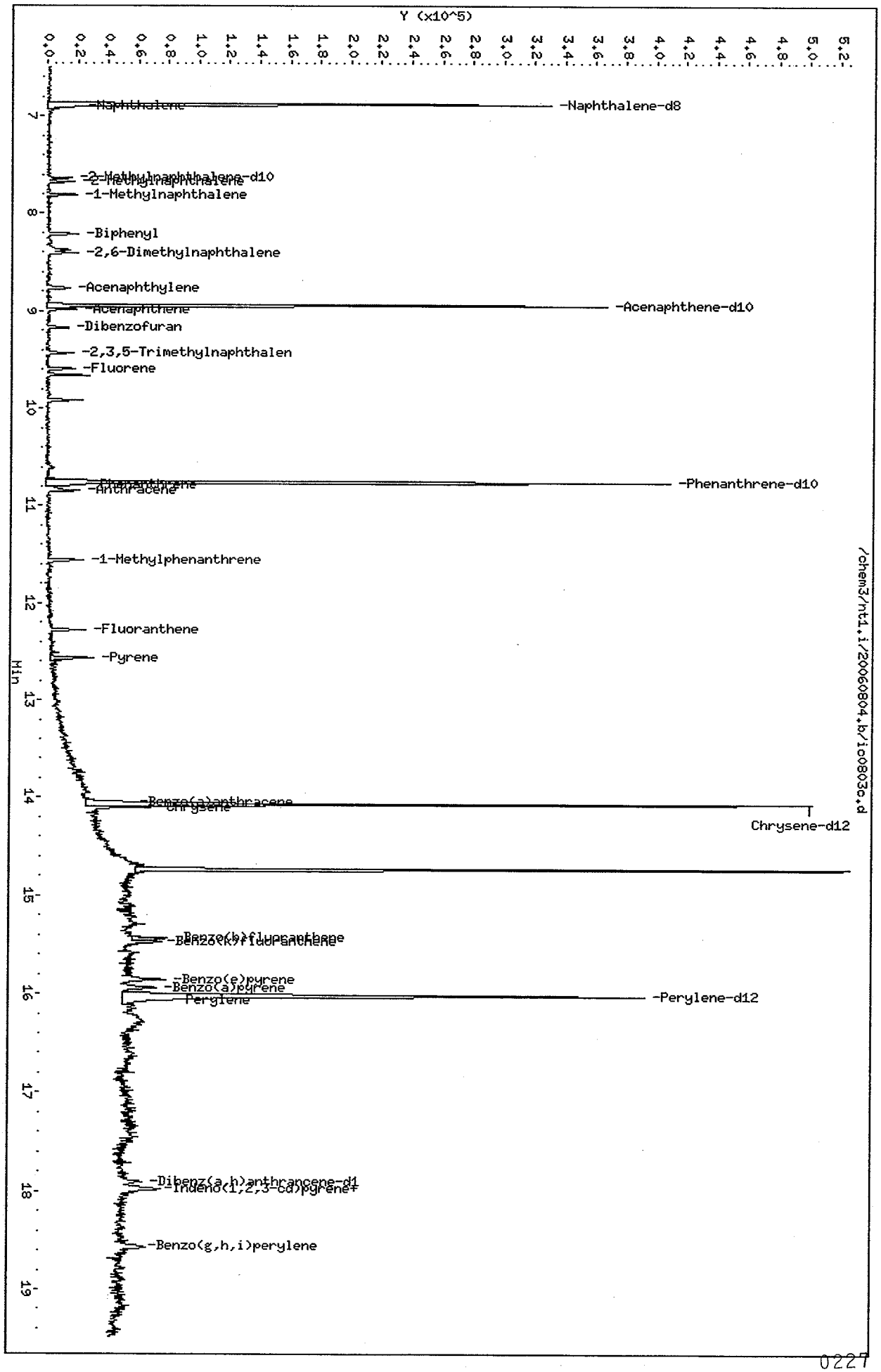
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	240196	7.80
8 Acenaphthene-d10	123591	61796	247182	130781	5.82
15 Phenanthrene-d10	200797	100398	401594	214296	6.72
23 Chrysene-d12	171210	85605	342420	190807	11.45
31 Perylene-d12	183426	91713	366852	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
Column phase: ZB-5

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



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

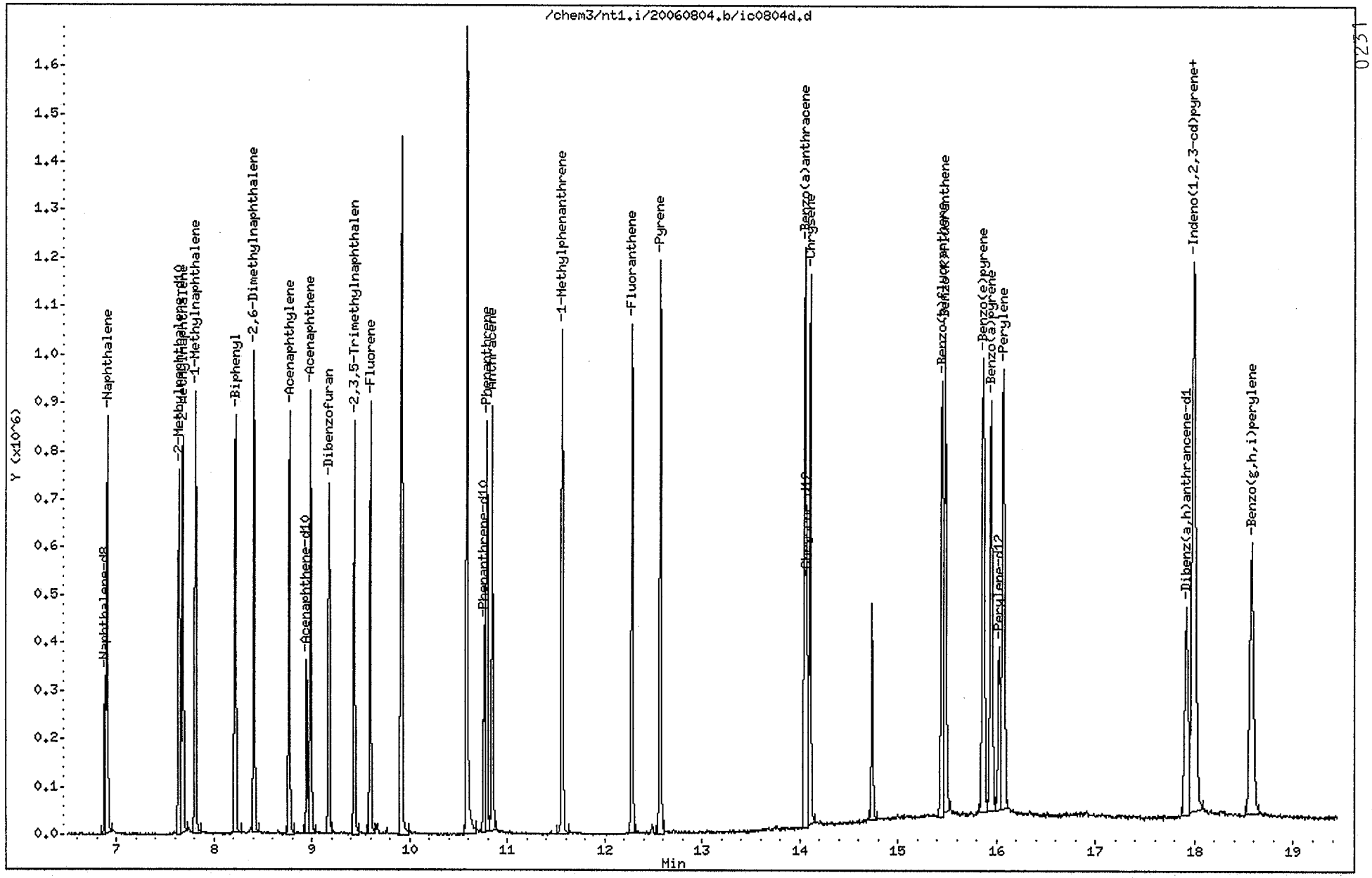
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/ic0804d.d
Date : 04-AUG-2006 11:39
Client ID:
Sample Info: IC0803D

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



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:

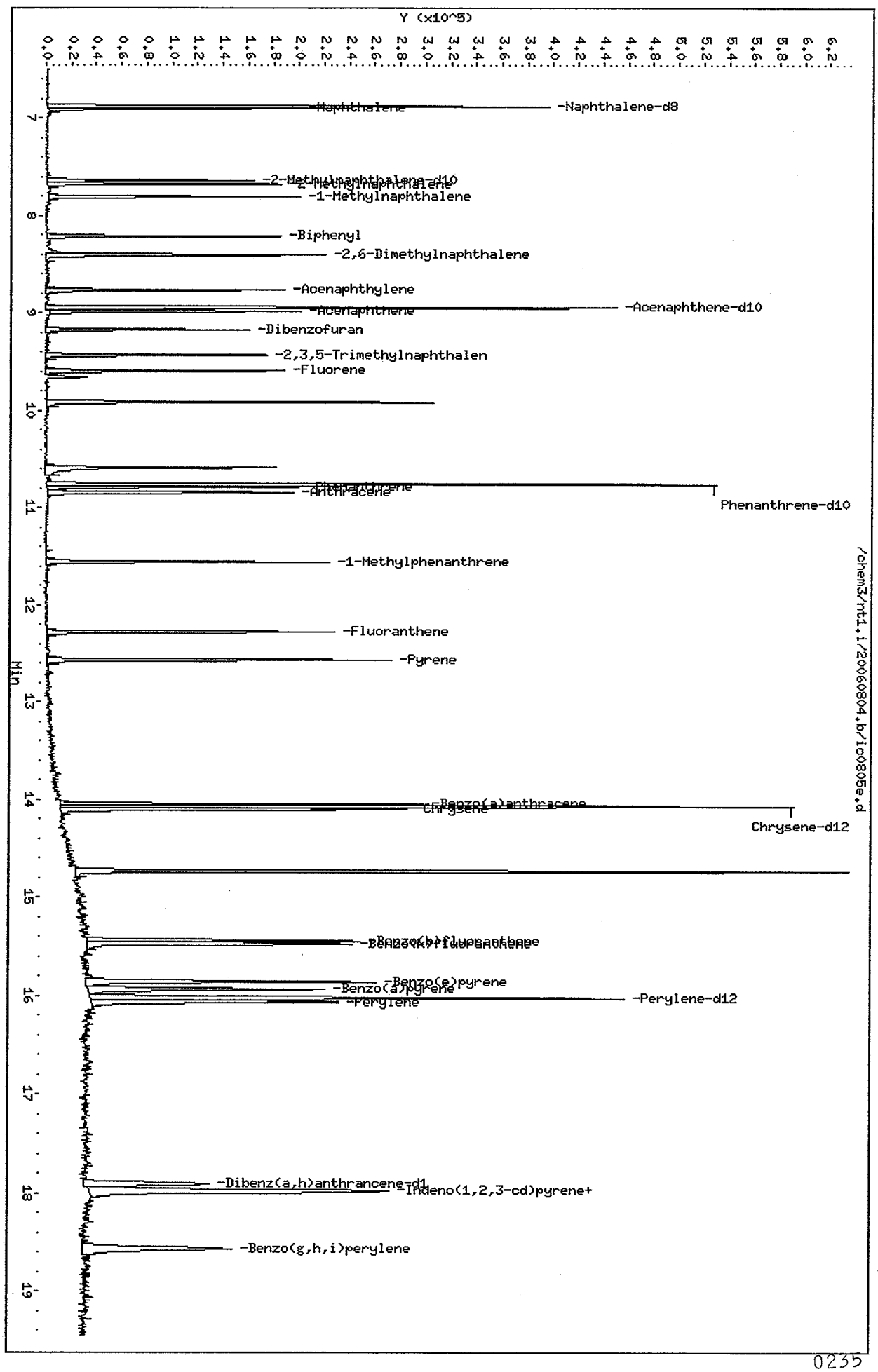
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	222814	111407	445628	305770	37.23
8 Acenaphthene-d10	123591	61796	247182	166121	34.41
15 Phenanthrene-d10	200797	100398	401594	269899	34.41
23 Chrysene-d12	171210	85605	342420	235891	37.78
31 Perylene-d12	183426	91713	366852	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
Column phase: ZB-5

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



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

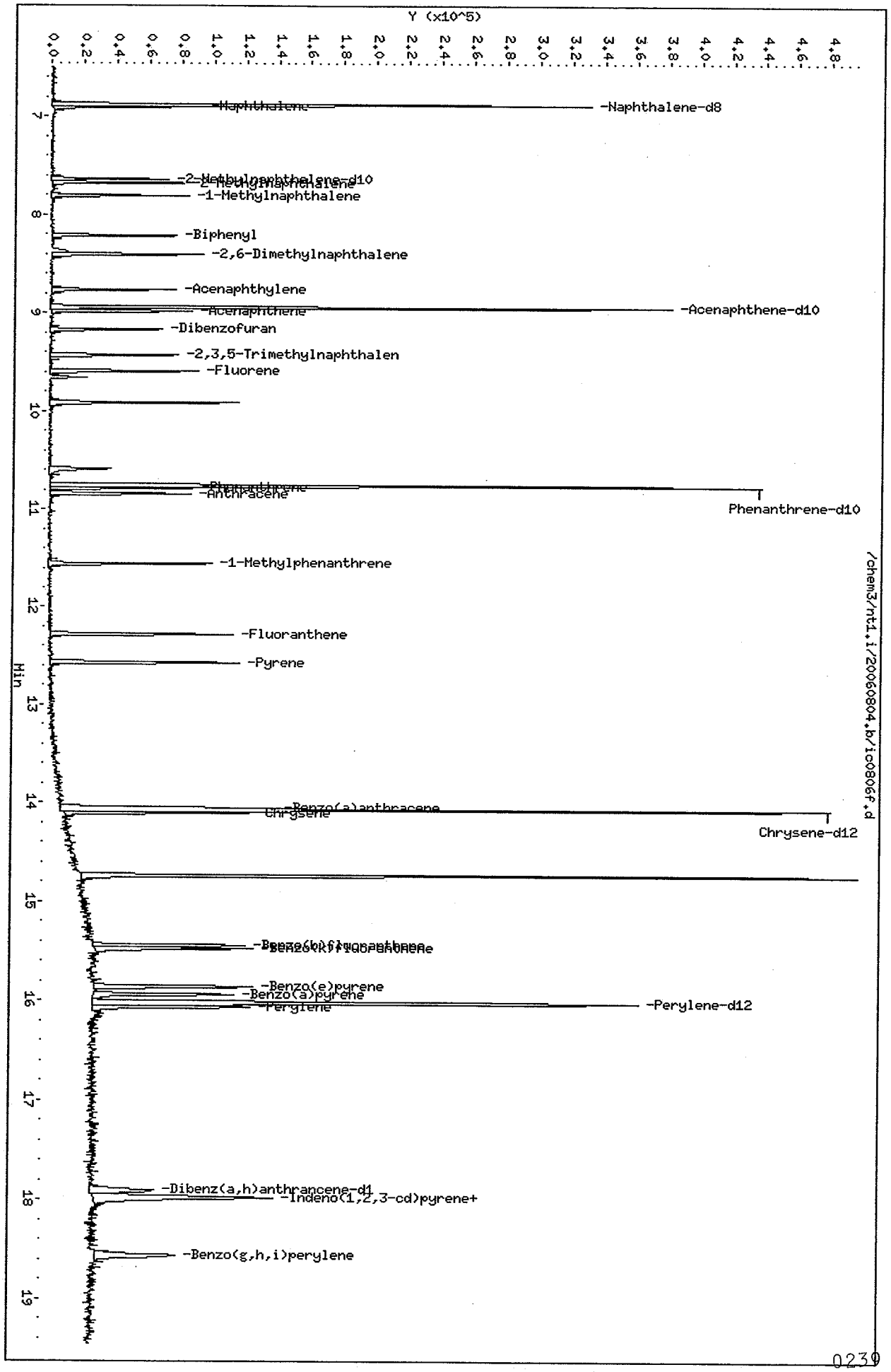
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/ic0806f.d
Date : 04-AUG-2006 12:28
Client ID:
Sample Info: IC0803F

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ52 — Project: T4 EARLY ACTION

Instrument ID: NT1 — Cont. Calib. Date: 08/07/06

Init. Calib. Date: 08/04/06 — Cont. Calib. Time: 1039

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.998	0.985	0.100	1.3	
2-Methylnaphthalene	0.591	0.572	0.100	3.2	
Acenaphthylene	1.658	1.596	0.100	3.7	
Acenaphthene	0.982	0.950	0.100	3.2	20.0
Dibenzofuran	1.446	1.405	0.100	2.8	
Fluorene	1.126	1.108	0.100	1.6	
Phenanthrene	1.027	0.971	0.100	5.4	
Anthracene	1.026	1.000	0.100	2.5	
Fluoranthene	1.047	1.013	0.100	3.2	20.0
Pyrene	1.284	1.209	0.100	5.8	
Benzo(a)anthracene	1.204	1.142	0.100	5.1	
Chrysene	1.111	1.068	0.100	3.9	
Benzo(b)fluoranthene	1.128	1.034	0.100	8.3	
Benzo(k)fluoranthene	1.203	1.240	0.100	-3.1	
Benzo(a)pyrene	1.100	1.017	0.100	7.5	20.0
Indeno(1,2,3-cd)pyrene	1.265	1.170	0.100	7.5	
Dibenz(a,h)anthracene	1.033	0.957	0.100	7.4	
Benzo(g,h,i)perylene	1.051	0.989	0.100	5.9	
1-Methylnaphthalene	0.620	0.601	0.100	3.1	
Biphenyl	1.236	1.157	0.100	6.4	
2,6-Dimethylnaphthalene	0.973	0.930	0.100	4.4	
2,3,5-Trimethylnaphthalene	0.797	0.781	0.100	2.0	
1-Methylphenanthrene	0.818	0.783	0.100	4.3	
Benzo(e)pyrene	1.217	1.121	0.100	7.9	
Perylene	1.143	1.062	0.100	7.1	
2-Methylnaphthalene-d10	0.515	0.503	0.100	2.3	
Dibenz(a,h)anthrancene-d14	0.765	0.734	0.100	4.0	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0807.d
Analysis Type:
Lab Sample ID: CC0807
Method: /chem3/nt1.i/20060807.b/simpna.m

Injection Date: 07-AUG-2006 10:39
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	0.98529	0.010	1.23350	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.51514	0.50273	0.010	2.40812	20.00000	Averaged
4 2-Methylnaphthalene	0.59078	0.57203	0.010	3.17335	20.00000	Averaged
5 1-Methylnaphthalene	0.61969	0.60094	0.010	3.02584	20.00000	Averaged
7 Acenaphthylene	1.65817	1.59593	0.010	3.75404	20.00000	Averaged
9 Acenaphthene	0.98203	0.94998	0.010	3.26371	20.00000	Averaged
10 Dibenzofuran	1.44651	1.40462	0.010	2.89598	20.00000	Averaged
11 Fluorene	1.12609	1.10796	0.010	1.60953	20.00000	Averaged
16 Phenanthrene	1.02657	0.97111	0.010	5.40243	20.00000	Averaged
17 Anthracene	1.02589	0.99975	0.010	2.54760	20.00000	Averaged
19 Fluoranthene	1.04707	1.01276	0.010	3.27733	20.00000	Averaged
20 Pyrene	1.28426	1.20942	0.010	5.82705	20.00000	Averaged
22 Benzo(a)anthracene	1.20437	1.14185	0.010	5.19097	20.00000	Averaged
24 Chrysene	1.11086	1.06788	0.010	3.86896	20.00000	Averaged
28 Benzo(b)fluoranthene	1.12875	1.03378	0.010	8.41415	20.00000	Averaged
29 Benzo(k)fluoranthene	1.20336	1.23989	0.010	-3.03563	20.00000	Averaged
30 Benzo(a)pyrene	1.09986	1.01663	0.010	7.56768	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.26484	1.16990	0.010	7.50568	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.76539	0.73452	0.010	4.03364	20.00000	Averaged
34 Dibenz(a,h)anthracene	1.03328	0.95682	0.010	7.40034	20.00000	Averaged
35 Benzo(g,h,i)perylene	1.05141	0.98874	0.010	5.96016	20.00000	Averaged
48 Biphenyl	1.23570	1.15672	0.010	6.39137	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.97325	0.93000	0.010	4.44419	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.79717	0.78128	0.010	1.99350	20.00000	Averaged
51 1-Methylphenanthrene	0.81867	0.78321	0.010	4.33071	20.00000	Averaged
52 Benzo(e)pyrene	1.21746	1.12091	0.010	7.93032	20.00000	Averaged
53 Perylene	1.14310	1.06153	0.010	7.13580	20.00000	Averaged

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060807.b/cc0807.d
Lab Smp Id: CC0807
Inj Date : 07-AUG-2006 10:39
Operator : YZ Inst ID: nt1.i
Smp Info : CC0807
Misc Info : SIM10
Comment : 1ul Injection
Method : /chem3/nt1.i/20060807.b/simpna.m
Meth Date : 07-Aug-2006 11:35 yev 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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.891	6.891	(1.000)	231039	2.00000	
	2 Naphthalene	128	6.915	6.915	(1.003)	284549	2.50000	2.469
$	3 2-Methylnaphthalene-d10	152	7.648	7.648	(1.110)	145188	2.50000	2.440
	4 2-Methylnaphthalene	142	7.683	7.683	(1.115)	165202	2.50000	2.421
	5 1-Methylnaphthalene	142	7.813	7.813	(1.134)	173551	2.50000	2.424
	7 Acenaphthylene	152	8.771	8.771	(0.980)	257605	2.50000	2.406
*	8 Acenaphthene-d10	164	8.954	8.954	(1.000)	129131	2.00000	
	9 Acenaphthene	153	8.989	8.989	(1.004)	153340	2.50000	2.418
	10 Dibenzofuran	168	9.178	9.178	(1.025)	226726	2.50000	2.428
	11 Fluorene	166	9.604	9.604	(1.073)	178841	2.50000	2.460
*	15 Phenanthrene-d10	188	10.762	10.762	(1.000)	212850	2.00000	
	16 Phenanthrene	178	10.792	10.792	(1.003)	258376	2.50000	2.365
	17 Anthracene	178	10.851	10.851	(1.008)	265997	2.50000	2.436
	19 Fluoranthene	202	12.287	12.287	(1.142)	269458	2.50000	2.418
	20 Pyrene	202	12.577	12.577	(0.893)	288473	2.50000	2.354
	22 Benzo(a)anthracene	228	14.054	14.054	(0.998)	272356	2.50000	2.370
*	23 Chrysene-d12	240	14.078	14.078	(1.000)	190817	2.00000	
	24 Chrysene	228	14.107	14.107	(1.002)	254712	2.50000	2.403
	28 Benzo(b)fluoranthene	252	15.455	15.455	(0.964)	255333	2.50000	2.290
	29 Benzo(k)fluoranthene	252	15.484	15.484	(0.966)	306241	2.50000	2.576
	30 Benzo(a)pyrene	252	15.951	15.951	(0.995)	251097	2.50000	2.311
*	31 Perylene-d12	264	16.034	16.034	(1.000)	197592	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	18.002	18.002	(1.123)	288955	2.50000	2.312
$	32 Dibenz(a,h)anthrancene-d14	292	17.931	17.931	(1.118)	181420	2.50000	2.399
	34 Dibenz(a,h)anthracene	278	17.996	17.996	(1.122)	236325	2.50000	2.315
	35 Benzo(g,h,i)perylene	276	18.581	18.581	(1.159)	244209	2.50000	2.351
	48 Biphenyl	154	8.221	8.221	(0.918)	186712	2.50000	2.340

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	8.416	8.416	(0.940)	150114	2.50000	2.389
50 2,3,5-Trimethylnaphthalene	170	9.438	9.438	(1.054)	126110	2.50000	2.450
51 1-Methylphenanthrene	192	11.566	11.566	(0.822)	186813	2.50000	2.392
52 Benzo(e)pyrene	252	15.869	15.869	(0.990)	276853	2.50000	2.302
53 Perylene	252	16.075	16.075	(1.003)	262189	2.50000	2.322

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0807.d
Lab Smp Id: CC0807
Analysis Type: SV
Quant Type: ISTD
Operator: YZ
Method File: /chem3/nt1.i/20060807.b/simpna.m
Misc Info: SIM10

Calibration Date: 07-AUG-2006
Calibration Time: 10:39

Level:
Sample Type:

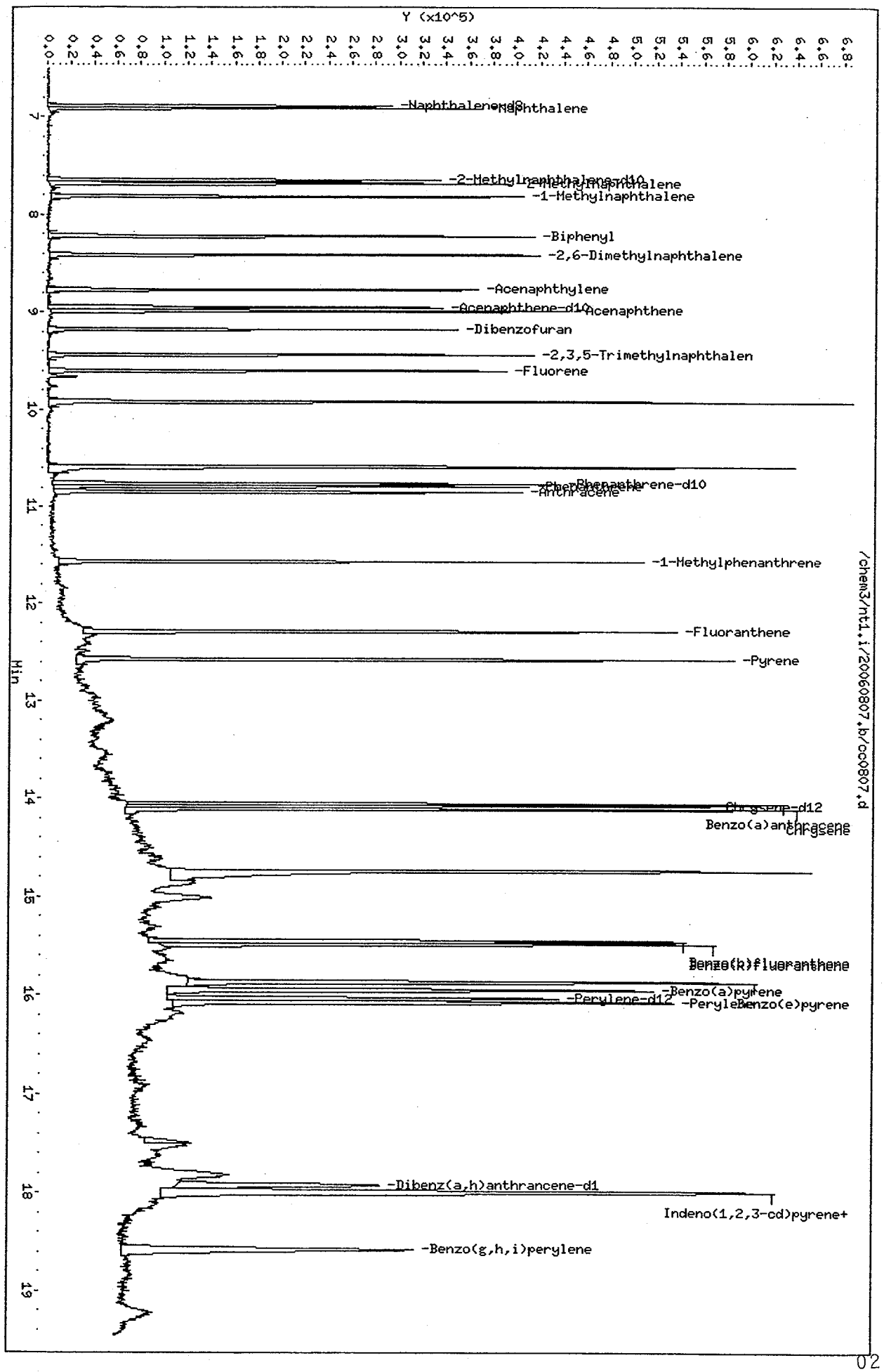
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	231039	115520	462078	231039	0.00
8 Acenaphthene-d10	129131	64566	258262	129131	0.00
15 Phenanthrene-d10	212850	106425	425700	212850	0.00
23 Chrysene-d12	190817	95408	381634	190817	0.00
31 Perylene-d12	197592	98796	395184	197592	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.89	6.39	7.39	6.89	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/20060807.b/cc0807.d
Date : 07-AUG-2006 10:39
Client ID:
Sample Info: CC0807
Column phase: ZB-5

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



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ52 — Project: T4 EARLY ACTION

Instrument ID: NT1 — Cont. Calib. Date: 08/08/06

Init. Calib. Date: 08/04/06 — Cont. Calib. Time: 0927

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.998	0.982	0.100	1.6	
2-Methylnaphthalene	0.591	0.555	0.100	6.1	
Acenaphthylene	1.658	1.647	0.100	0.7	
Acenaphthene	0.982	0.941	0.100	4.2	20.0
Dibenzofuran	1.446	1.377	0.100	4.8	
Fluorene	1.126	1.082	0.100	3.9	
Phenanthrene	1.027	0.989	0.100	3.7	
Anthracene	1.026	0.996	0.100	2.9	
Fluoranthene	1.047	1.035	0.100	1.1	20.0
Pyrene	1.284	1.214	0.100	5.4	
Benzo(a)anthracene	1.204	1.120	0.100	7.0	
Chrysene	1.111	1.076	0.100	3.2	
Benzo(b)fluoranthene	1.128	1.080	0.100	4.2	
Benzo(k)fluoranthene	1.203	1.162	0.100	3.4	
Benzo(a)pyrene	1.100	0.996	0.100	9.4	20.0
Indeno(1,2,3-cd)pyrene	1.265	1.148	0.100	9.2	
Dibenz(a,h)anthracene	1.033	0.973	0.100	5.8	
Benzo(g,h,i)perylene	1.051	0.990	0.100	5.8	
1-Methylnaphthalene	0.620	0.574	0.100	7.4	
Biphenyl	1.236	1.182	0.100	4.4	
2,6-Dimethylnaphthalene	0.973	0.963	0.100	1.0	
2,3,5-Trimethylnaphthalene	0.797	0.757	0.100	5.0	
1-Methylphenanthrene	0.818	0.787	0.100	3.8	
Benzo(e)pyrene	1.217	1.119	0.100	8.0	
Perylene	1.143	1.030	0.100	9.9	
2-Methylnaphthalene-d10	0.515	0.489	0.100	5.0	
Dibenz(a,h)anthrancene-d14	0.765	0.730	0.100	4.6	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060808.b/cc0808.d
Lab Smp Id: CC0808
Inj Date : 08-AUG-2006 09:27
Operator : VTS Inst ID: nt1.i
Smp Info : CC0808
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20060808.b/simpna.m
Meth Date : 08-Aug-2006 10:25 yev 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

	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	6.884	(1.000)	260380	2.00000	
	2 Naphthalene	128	6.907	6.907	(1.003)	319778	2.50000	2.462
$	3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	159108	2.50000	2.372
	4 2-Methylnaphthalene	142	7.676	7.676	(1.115)	180528	2.50000	2.347
	5 1-Methylnaphthalene	142	7.806	7.806	(1.134)	186785	2.50000	2.315
	7 Acenaphthylene	152	8.763	8.763	(0.980)	279347	2.50000	2.483
*	8 Acenaphthene-d10	164	8.946	8.946	(1.000)	135690	2.00000	
	9 Acenaphthene	153	8.982	8.982	(1.004)	159675	2.50000	2.397
	10 Dibenzofuran	168	9.171	9.171	(1.025)	233581	2.50000	2.380
	11 Fluorene	166	9.596	9.596	(1.073)	183581	2.50000	2.403
*	15 Phenanthrene-d10	188	10.755	10.755	(1.000)	210931	2.00000	
	16 Phenanthrene	178	10.784	10.784	(1.003)	260704	2.50000	2.408
	17 Anthracene	178	10.843	10.843	(1.008)	262651	2.50000	2.428
	19 Fluoranthene	202	12.280	12.280	(1.142)	272938	2.50000	2.472
	20 Pyrene	202	12.569	12.569	(0.893)	289265	2.50000	2.364
	22 Benzo(a)anthracene	228	14.047	14.047	(0.998)	266824	2.50000	2.325
*	23 Chrysene-d12	240	14.070	14.070	(1.000)	190595	2.00000	
	24 Chrysene	228	14.100	14.100	(1.002)	256254	2.50000	2.421
	28 Benzo(b)fluoranthene	252	15.441	15.441	(0.964)	261774	2.50000	2.393
	29 Benzo(k)fluoranthene	252	15.477	15.477	(0.966)	281641	2.50000	2.415
	30 Benzo(a)pyrene	252	15.938	15.938	(0.995)	241283	2.50000	2.264
*	31 Perylene-d12	264	16.021	16.021	(1.000)	193807	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.989	17.989	(1.123)	278016	2.50000	2.268
$	32 Dibenz(a,h)anthrancene-d14	292	17.912	17.912	(1.118)	176777	2.50000	2.383
	34 Dibenz(a,h)anthracene	278	17.977	17.977	(1.122)	235825	2.50000	2.355
	35 Benzo(g,h,i)perylene	276	18.568	18.568	(1.159)	239948	2.50000	2.355
	48 Biphenyl	154	8.213	8.213	(0.918)	200499	2.50000	2.392

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)	163394	2.50000	2.475
50 2,3,5-Trimethylnaphthalene	170	9.431	9.431	(1.054)	128455	2.50000	2.375
51 1-Methylphenanthrene	192	11.559	11.559	(0.821)	187593	2.50000	2.405
52 Benzo(e)pyrene	252	15.861	15.861	(0.990)	271174	2.50000	2.299
53 Perylene	252	16.068	16.068	(1.003)	249493	2.50000	2.252

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0808.d
Lab Smp Id: CC0808
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060808.b/simpna.m
Misc Info:

Calibration Date: 08-AUG-2006
Calibration Time: 09:27

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	260380	130190	520760	260380	0.00
8 Acenaphthene-d10	135690	67845	271380	135690	0.00
15 Phenanthrene-d10	210931	105466	421862	210931	0.00
23 Chrysene-d12	190595	95298	381190	190595	0.00
31 Perylene-d12	193807	96904	387614	193807	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	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.07	13.57	14.57	14.07	0.00
31 Perylene-d12	16.02	15.52	16.52	16.02	0.00

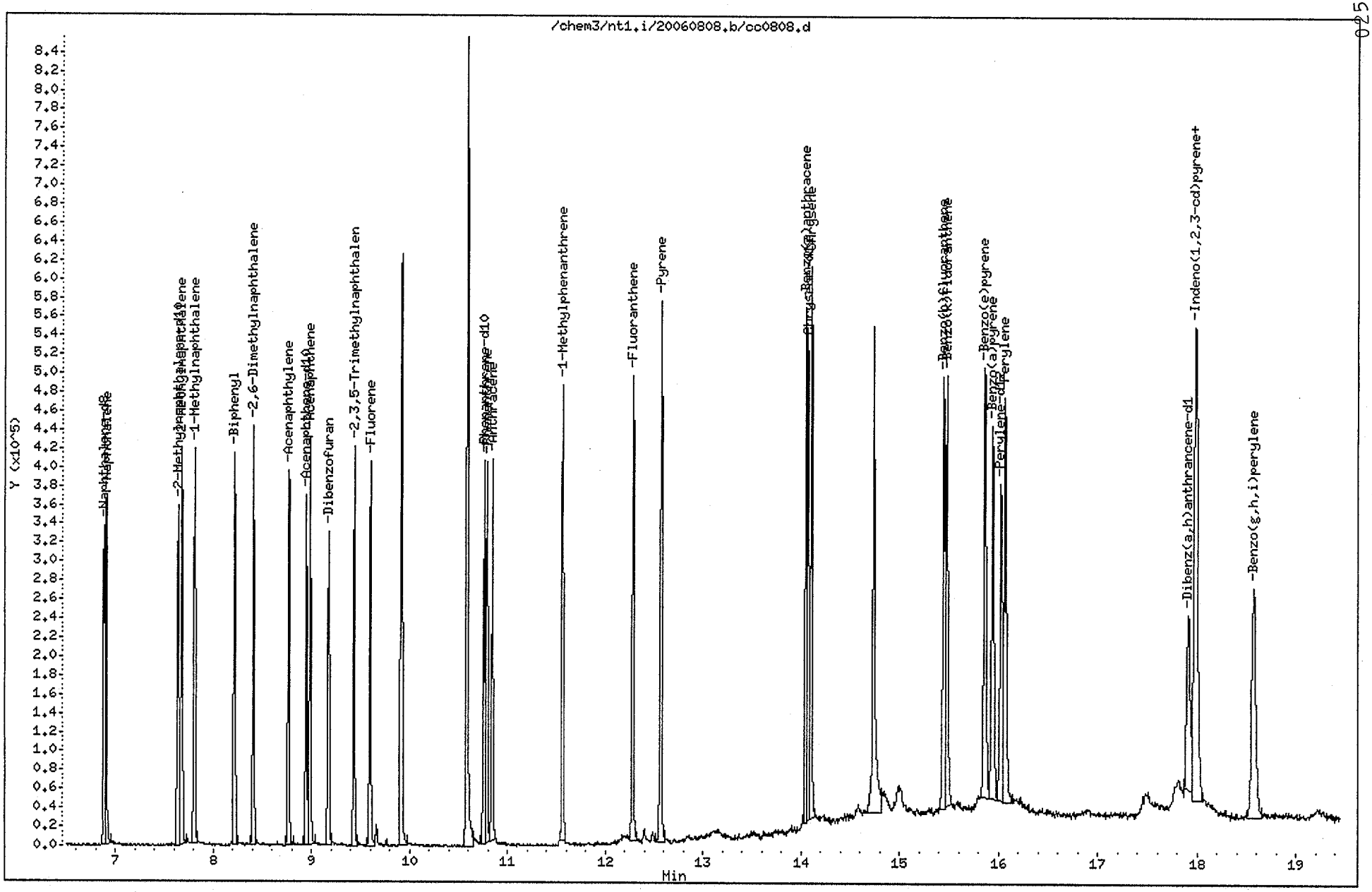
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060808.b/cc0808.d
Date : 08-AUG-2006 09:27
Client ID:
Sample Info: CC0808

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



0250

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0808.d
Analysis Type:
Lab Sample ID: CC0808
Method: /chem3/nt1.i/20060808.b/simpna.m

Injection Date: 08-AUG-2006 09:27
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	0.98250	0.010	1.51324	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.51514	0.48885	0.010	5.10275	20.00000	Averaged
4 2-Methylnaphthalene	0.59078	0.55466	0.010	6.11408	20.00000	Averaged
5 1-Methylnaphthalene	0.61969	0.57389	0.010	7.39214	20.00000	Averaged
7 Acenaphthylene	1.65817	1.64697	0.010	0.67596	20.00000	Averaged
9 Acenaphthene	0.98203	0.94141	0.010	4.13684	20.00000	Averaged
10 Dibenzofuran	1.44651	1.37714	0.010	4.79588	20.00000	Averaged
11 Fluorene	1.12609	1.08235	0.010	3.88354	20.00000	Averaged
16 Phenanthrene	1.02657	0.98877	0.010	3.68156	20.00000	Averaged
17 Anthracene	1.02589	0.99616	0.010	2.89788	20.00000	Averaged
19 Fluoranthene	1.04707	1.03517	0.010	1.13657	20.00000	Averaged
20 Pyrene	1.28426	1.21415	0.010	5.45865	20.00000	Averaged
22 Benzo(a)anthracene	1.20437	1.11996	0.010	7.00843	20.00000	Averaged
24 Chrysene	1.11086	1.07559	0.010	3.17449	20.00000	Averaged
28 Benzo(b)fluoranthene	1.12875	1.08056	0.010	4.26999	20.00000	Averaged
29 Benzo(k)fluoranthene	1.20336	1.16256	0.010	3.39022	20.00000	Averaged
30 Benzo(a)pyrene	1.09986	0.99597	0.010	9.44567	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.26484	1.14760	0.010	9.26923	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.76539	0.72971	0.010	4.66292	20.00000	Averaged
34 Dibenz(a,h)anthracene	1.03328	0.97344	0.010	5.79132	20.00000	Averaged
35 Benzo(g,h,i)perylene	1.05141	0.99046	0.010	5.79629	20.00000	Averaged
48 Biphenyl	1.23570	1.18209	0.010	4.33840	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.97325	0.96334	0.010	1.01844	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.79717	0.75734	0.010	4.99652	20.00000	Averaged
51 1-Methylphenanthrene	0.81867	0.78740	0.010	3.81908	20.00000	Averaged
52 Benzo(e)pyrene	1.21746	1.11936	0.010	8.05785	20.00000	Averaged
53 Perylene	1.14310	1.02986	0.010	9.90664	20.00000	Averaged

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR ENVIRONMENTAL

ARI Job No: JQ52 — 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:

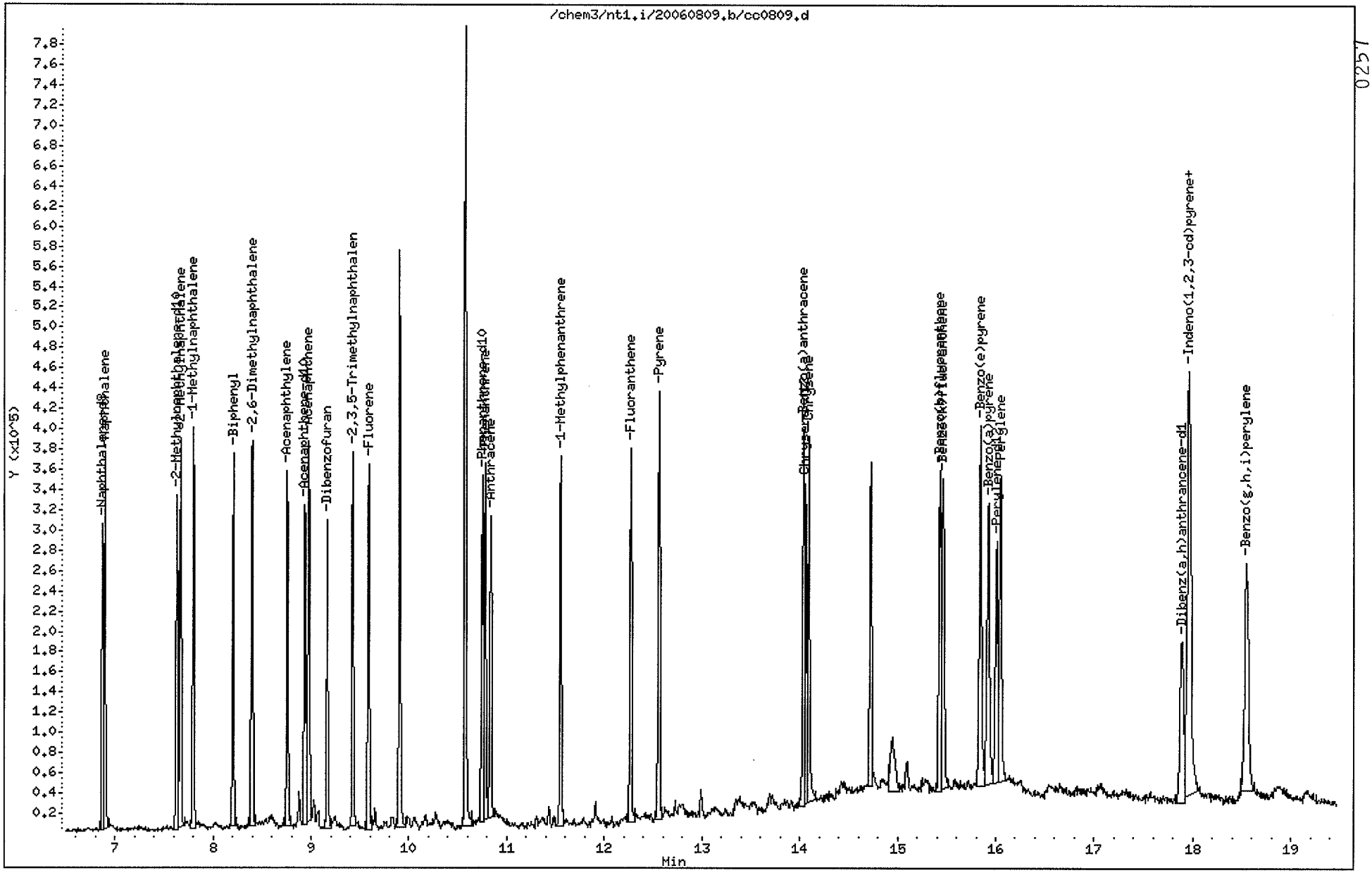
Sample Info: CC0809

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS

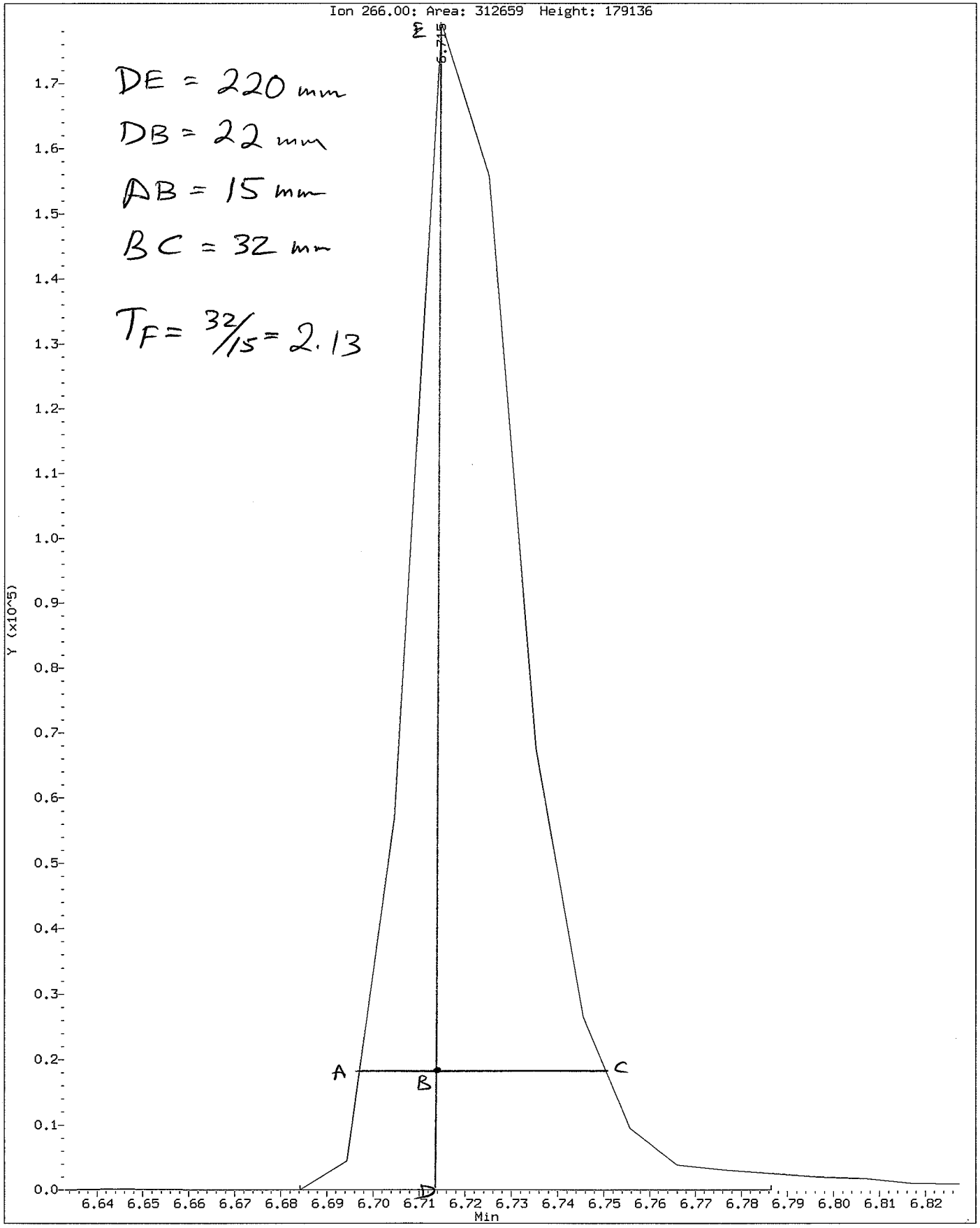
Column diameter: 0.25



0257

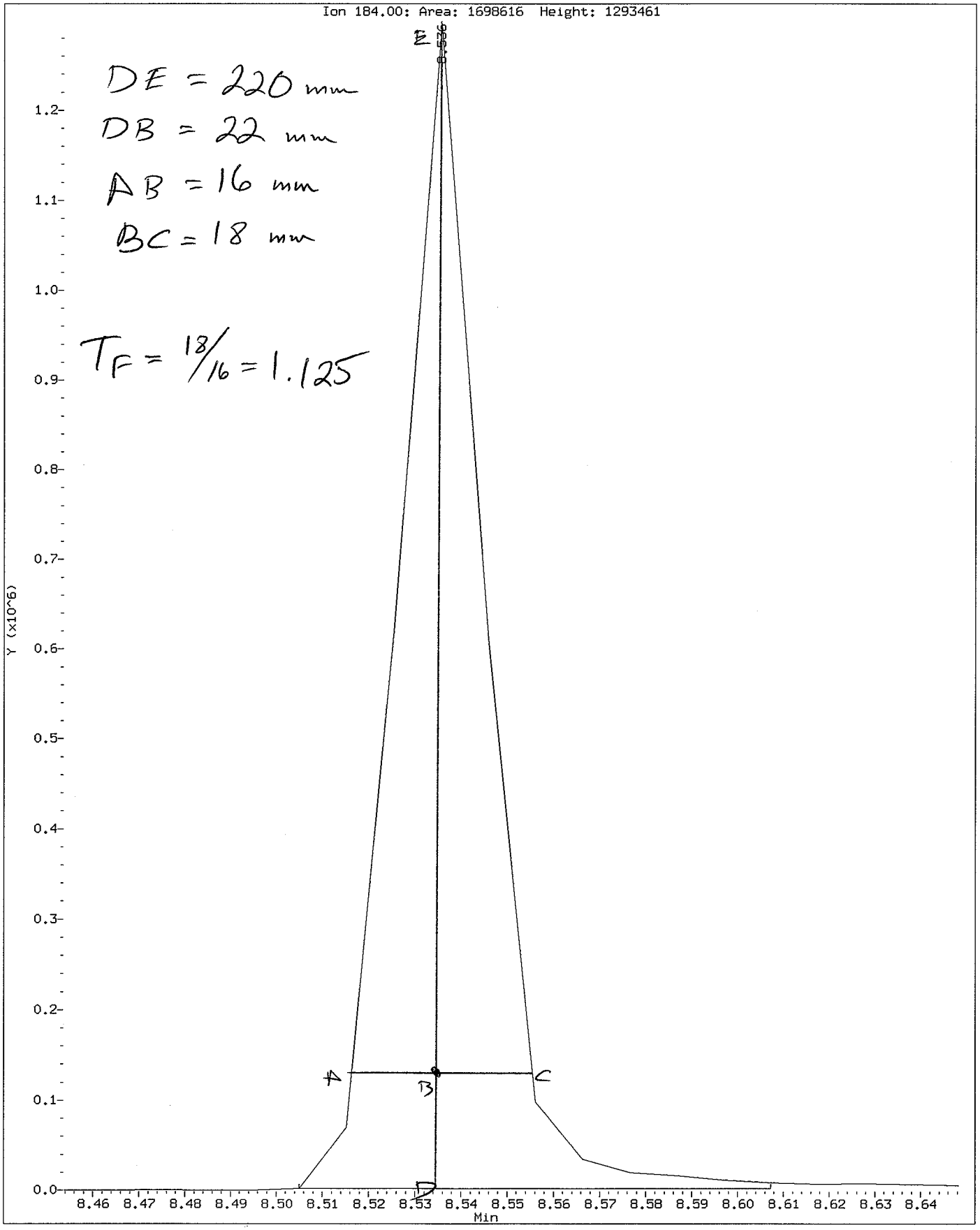
Data File: /chem3/nt1.i/20060809.b/ddt.b/df0809.d
Injection Date: 09-AUG-2006 07:32
Instrument: nt1.i
Client Sample ID:

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
Method: /chem3/nt1.i/20060809.b/ddt.b/sw846ddt.m
Analysis Date: 09-AUG-2006 07:32

ARI ID: DF0809
Misc: DF0809
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 %

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

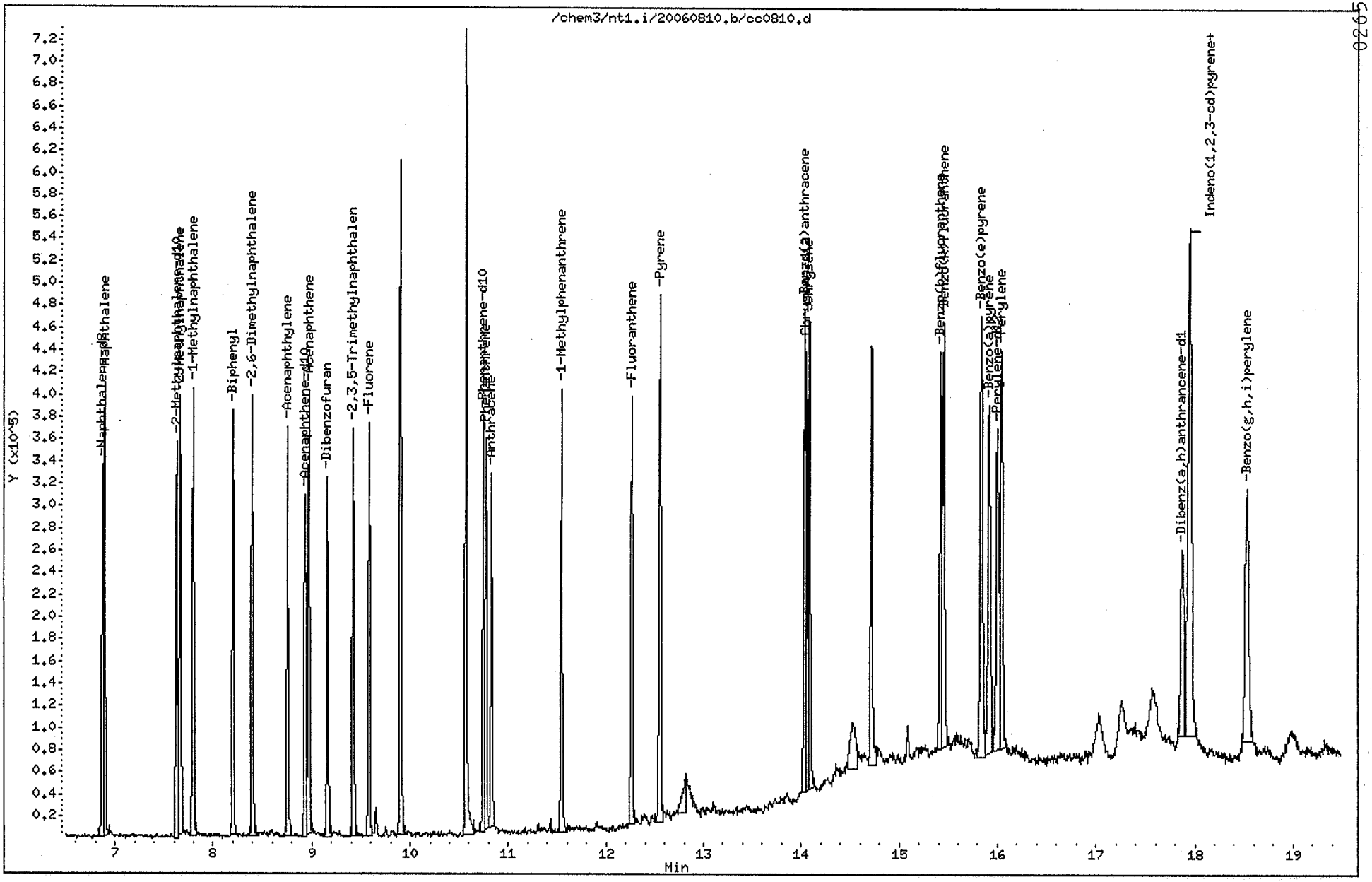
COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.99759	0.94185	0.010	5.58766	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.51514	0.46139	0.010	10.43408	20.00000	Averaged
4 2-Methylnaphthalene	0.59078	0.53086	0.010	10.14351	20.00000	Averaged
5 1-Methylnaphthalene	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

Column phase: ZB-5

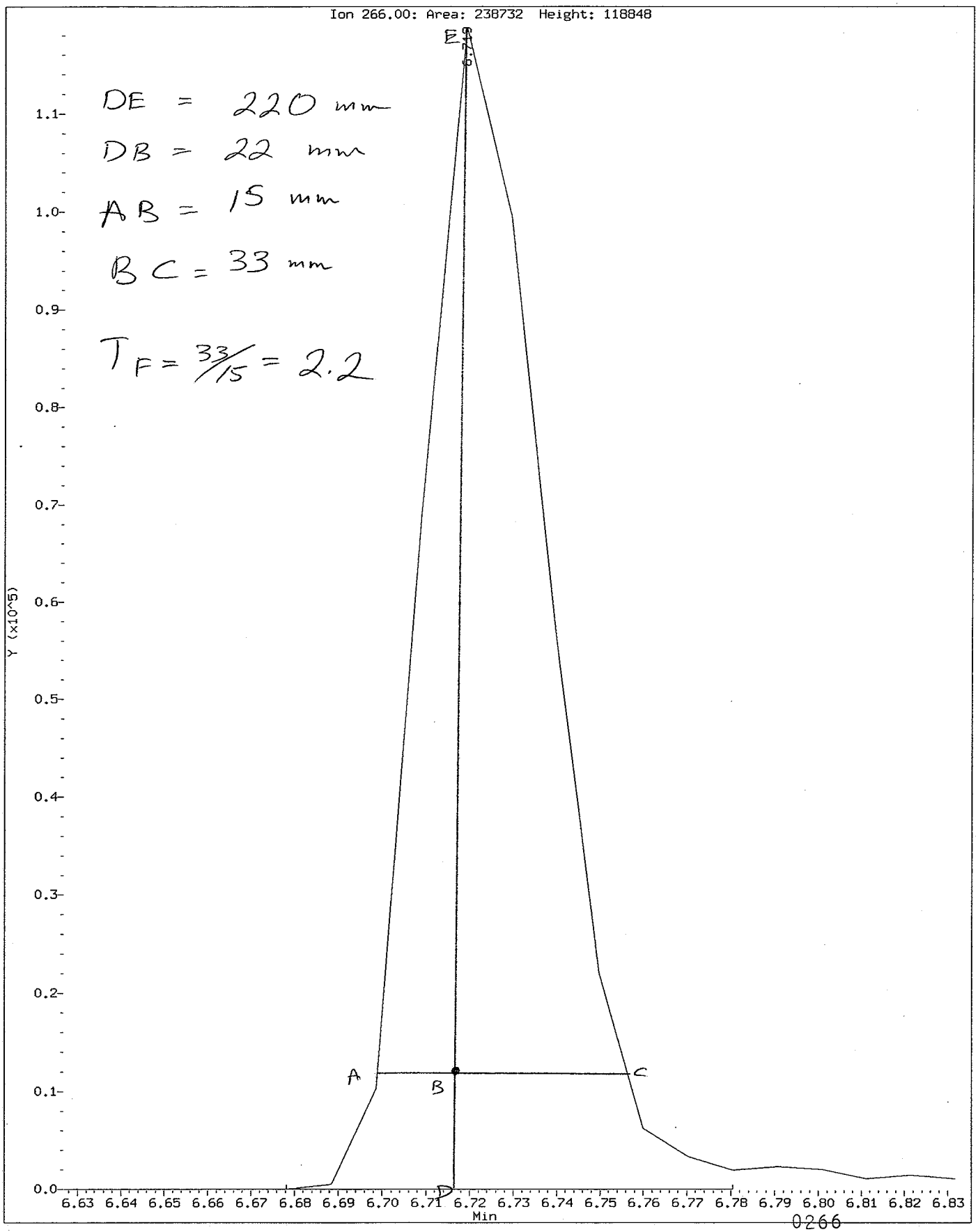
Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



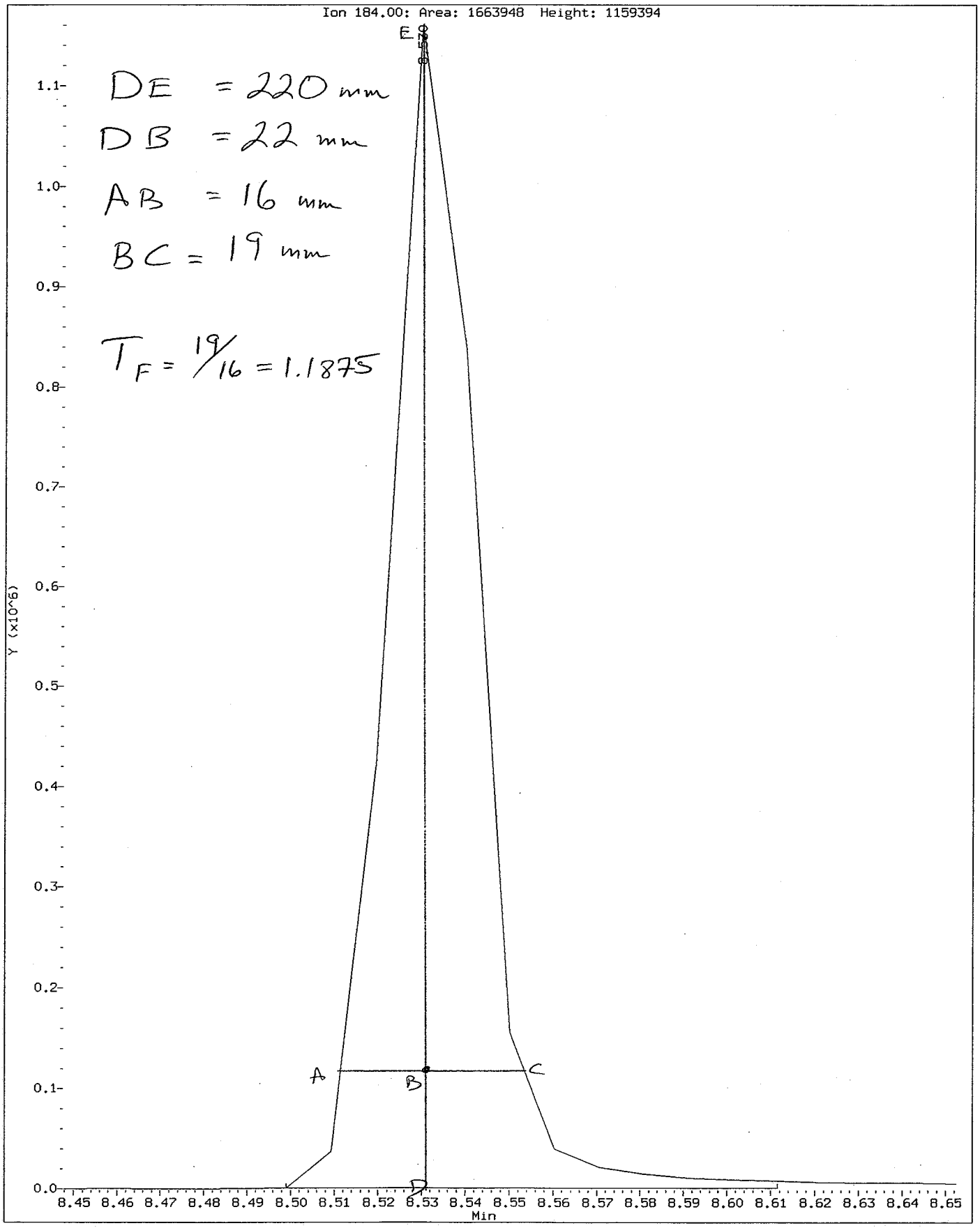
Data File: /chem3/nt1.i/20060810.b/ddt.b/df0810.d
Injection Date: 10-AUG-2006 13:08
Instrument: nt1.i
Client Sample ID:

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
Method: /chem3/nt1.i/20060810.b/ddt.b/sw846ddt.m
Analysis Date: 10-AUG-2006 13:08

ARI ID: DF0810
Misc:
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.					

1227

VTS
8.11.2006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	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:
Sample Matrix: NONE
Lab Smp Id: ICV0810
Level:
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info:

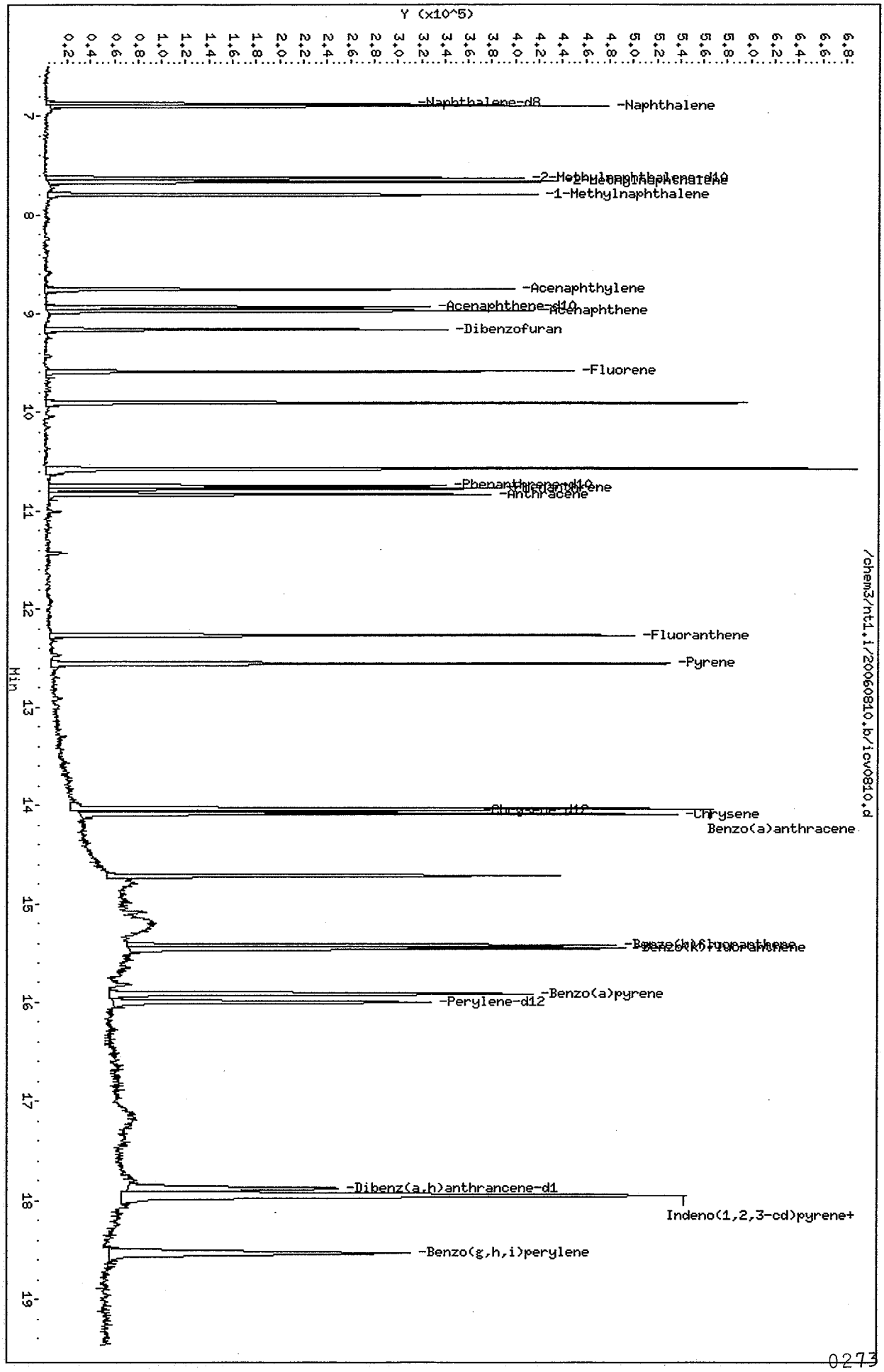
Client SDG: 20060810
Fraction: SV

Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

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
Column phase: ZB-5

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



SIM Semivolatile Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt1.i/20060804.b/df0804.d

Date : 04-AUG-2006 09:53

Client ID:

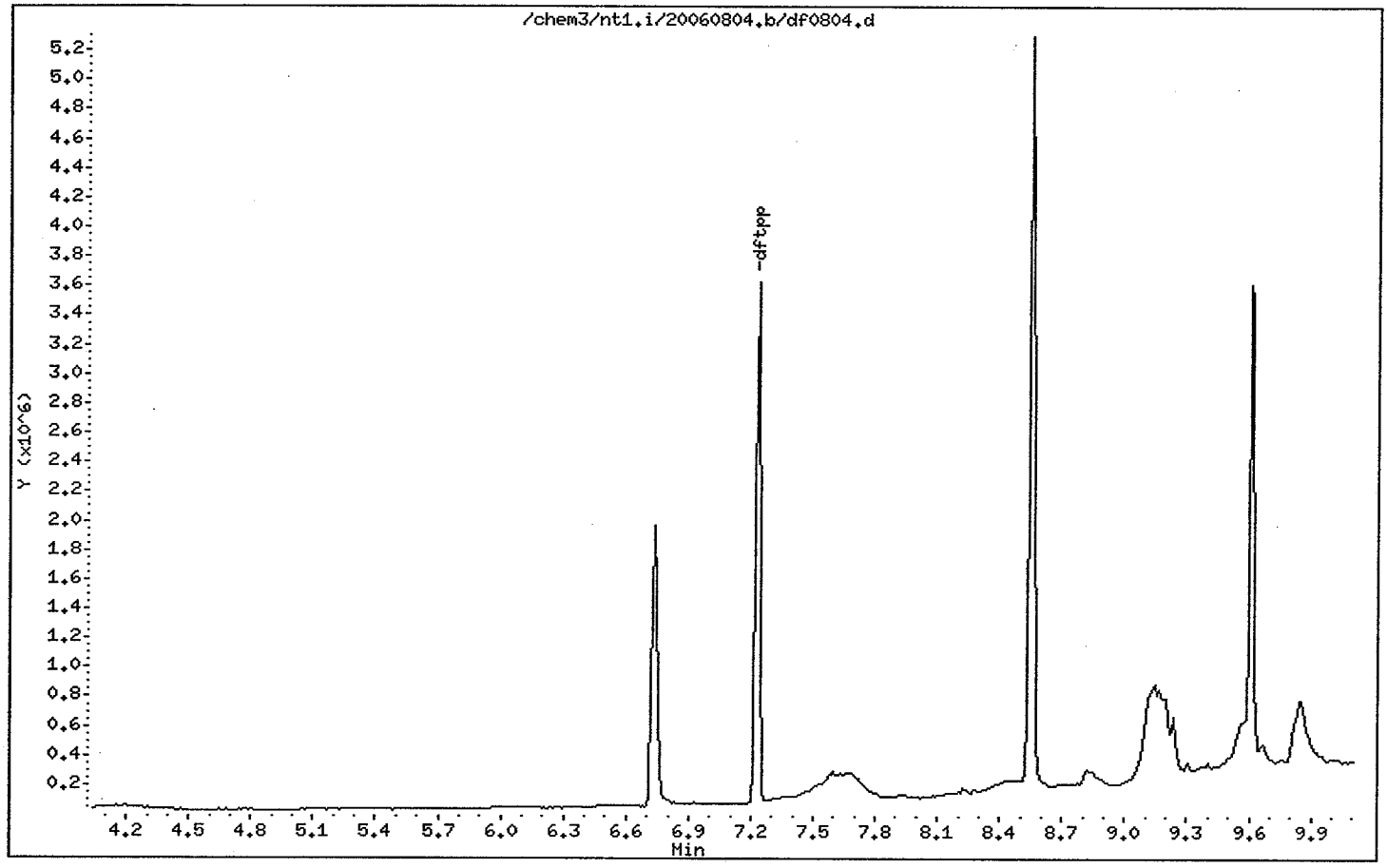
Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060804.b/df0804.d

Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

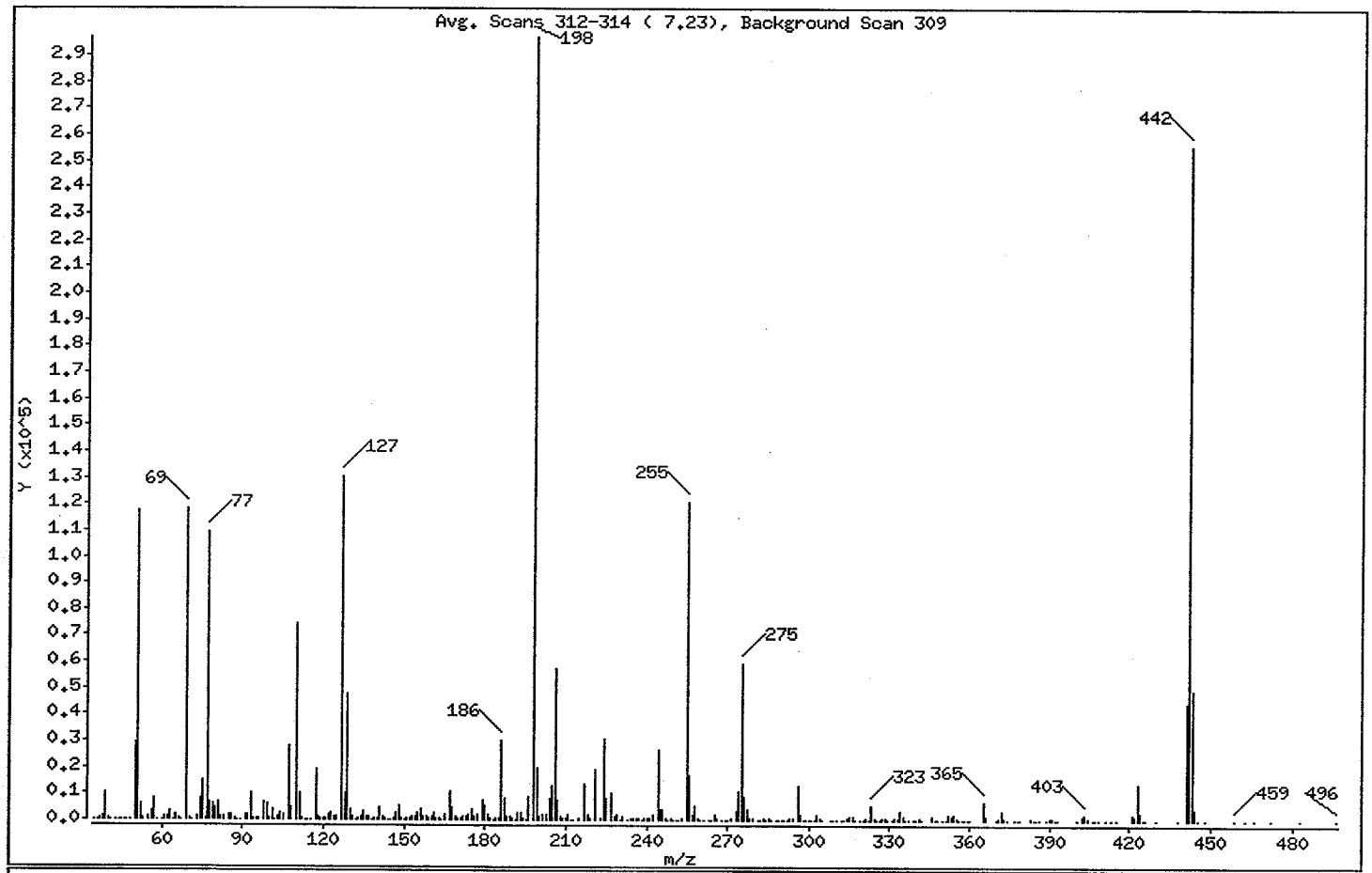
Sample Info: DF0804

Operator: LJR

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	39.50
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	39.68
70	Less than 2.00% of mass 69	0.16 (0.41)
127	25.00 - 75.00% of mass 198	43.90
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	20.06
365	Greater than 0.75% of mass 198	2.25
441	Present, but less than mass 443	15.05
442	40.00 - 110.00% of mass 198	86.30
443	15.00 - 24.00% of mass 442	16.57 (19.20)

Data File: /chem3/nt1.i/20060804.b/df0804.d

Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25

Data File: df0804.d
Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309
Location of Maximum: 198.00
Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	104	132.00	167	224.00	30960	322.00	41
36.00	193	133.00	466	225.00	8338	323.00	5687
37.00	380	134.00	1065	227.00	10334	324.00	830
38.00	1590	135.00	3386	228.00	1446	325.00	119
39.00	10316	136.00	1562	229.00	2189	326.00	95
40.00	425	137.00	1212	230.00	311	327.00	1021
41.00	335	138.00	180	231.00	1054	328.00	547
43.00	227	139.00	580	233.00	313	329.00	137
44.00	211	140.00	405	234.00	557	331.00	40
45.00	202	141.00	4914	235.00	775	332.00	367
46.00	24	142.00	1661	236.00	744	333.00	546
47.00	77	143.00	949	237.00	875	334.00	3425
48.00	153	144.00	154	238.00	183	335.00	1088
50.00	29200	145.00	242	239.00	638	336.00	100
51.00	117304	146.00	698	240.00	494	337.00	64
52.00	6047	147.00	3045	241.00	763	339.00	109
53.00	380	148.00	5247	242.00	1902	340.00	117
55.00	1228	149.00	897	244.00	26648	341.00	727
56.00	3107	150.00	312	245.00	3816	342.00	125
57.00	7948	151.00	905	246.00	4009	346.00	1122
58.00	274	152.00	440	247.00	917	347.00	226
60.00	313	153.00	1416	248.00	292	348.00	65
61.00	1226	154.00	1605	249.00	1018	350.00	96
62.00	1199	155.00	2395	250.00	197	351.00	71
63.00	3460	156.00	4278	251.00	287	352.00	1862
64.00	146	157.00	1141	252.00	263	353.00	1254
65.00	1816	158.00	1118	253.00	618	354.00	1708
66.00	346	159.00	380	255.00	120568	355.00	354
67.00	14	160.00	1651	256.00	17008	356.00	62
69.00	117848	161.00	2422	257.00	1714	357.00	50
70.00	484	162.00	641	258.00	5492	358.00	44
71.00	265	163.00	453	259.00	948	359.00	236
73.00	1283	164.00	100	260.00	203	360.00	34
74.00	8041	165.00	1901	261.00	336	365.00	6669
75.00	15094	167.00	10942	263.00	177	366.00	1065

Data File: /chem3/nt1.i/20060804.b/df0804.d

Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25

Data File: df0804.d
Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309
Location of Maximum: 198.00
Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	610	168.00	4520	264.00	10	370.00	309
77.00	109344	169.00	1050	265.00	2375	371.00	342
78.00	7104	170.00	425	266.00	668	372.00	3218
79.00	6358	171.00	352	268.00	123	373.00	780
80.00	5009	172.00	1118	269.00	23	374.00	155
81.00	6496	173.00	1145	270.00	231	377.00	121
82.00	1587	174.00	2276	271.00	451	378.00	48
83.00	1619	175.00	3854	273.00	3728	379.00	74
85.00	1798	176.00	1631	274.00	10740	383.00	883
86.00	2108	177.00	1801	275.00	59576	384.00	252
87.00	635	179.00	7819	276.00	8737	385.00	68
88.00	273	180.00	5642	277.00	3970	386.00	41
89.00	165	181.00	2387	278.00	702	389.00	142
91.00	2045	182.00	391	279.00	348	390.00	342
92.00	1842	183.00	249	281.00	176	391.00	452
93.00	9941	184.00	779	282.00	182	392.00	229
94.00	638	185.00	460	283.00	607	393.00	131
95.00	664	186.00	30160	284.00	249	400.00	45
96.00	766	187.00	8078	285.00	556	402.00	1406
98.00	7107	188.00	1038	286.00	228	403.00	2105
99.00	5819	189.00	1454	288.00	144	404.00	700
100.00	419	190.00	411	289.00	251	406.00	58
101.00	4244	191.00	181	290.00	311	407.00	48
102.00	48	192.00	2691	291.00	318	408.00	44
103.00	1659	193.00	2495	292.00	197	411.00	39
104.00	2709	194.00	636	293.00	697	413.00	44
105.00	2115	195.00	132	294.00	364	415.00	128
107.00	27704	196.00	9213	296.00	13038	421.00	1715
108.00	4583	198.00	296960	297.00	1714	422.00	1202
110.00	74144	199.00	20000	298.00	35	423.00	13458
111.00	10557	200.00	1277	299.00	52	424.00	2775
112.00	828	201.00	1951	300.00	2	425.00	263
113.00	271	203.00	2161	301.00	187	426.00	43
114.00	203	204.00	8337	302.00	286	430.00	88
115.00	47	205.00	13190	303.00	1797	438.00	51

Data File: /chem3/nt1.i/20060804.b/df0804.d

Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25

Data File: df0804.d
Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309
Location of Maximum: 198.00
Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	19192	206.00	57200	304.00	498	441.00	44680
118.00	1479	207.00	7504	305.00	39	442.00	256256
119.00	426	208.00	1444	308.00	273	443.00	49200
120.00	408	209.00	417	309.00	191	444.00	4351
121.00	486	210.00	743	310.00	302	445.00	255
122.00	1998	211.00	2156	312.00	34	448.00	42
123.00	3039	212.00	37	313.00	237	459.00	60
124.00	1393	213.00	269	314.00	726	463.00	39
125.00	1411	215.00	619	315.00	1404	466.00	39
127.00	130368	217.00	13804	316.00	1213	472.00	40
128.00	10523	218.00	1843	317.00	304	483.00	40
129.00	48016	219.00	356	319.00	66	496.00	40
130.00	3762	221.00	18928	320.00	80		
131.00	1072	223.00	480	321.00	439		

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

Data file: /chem3/nt1.i/20060804.b/ddt.b/df0804.d
Method: /chem3/nt1.i/20060804.b/ddt.b/sw846ddt.m
Analysis Date: 04-AUG-2006 09:53

ARI ID: DF0804
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.730	433592
Benzidine	8.551	2972773
4,4'-DDE	8.817	7261
4,4'-DDD	9.236	71178
4,4'-DDT	9.615	970302

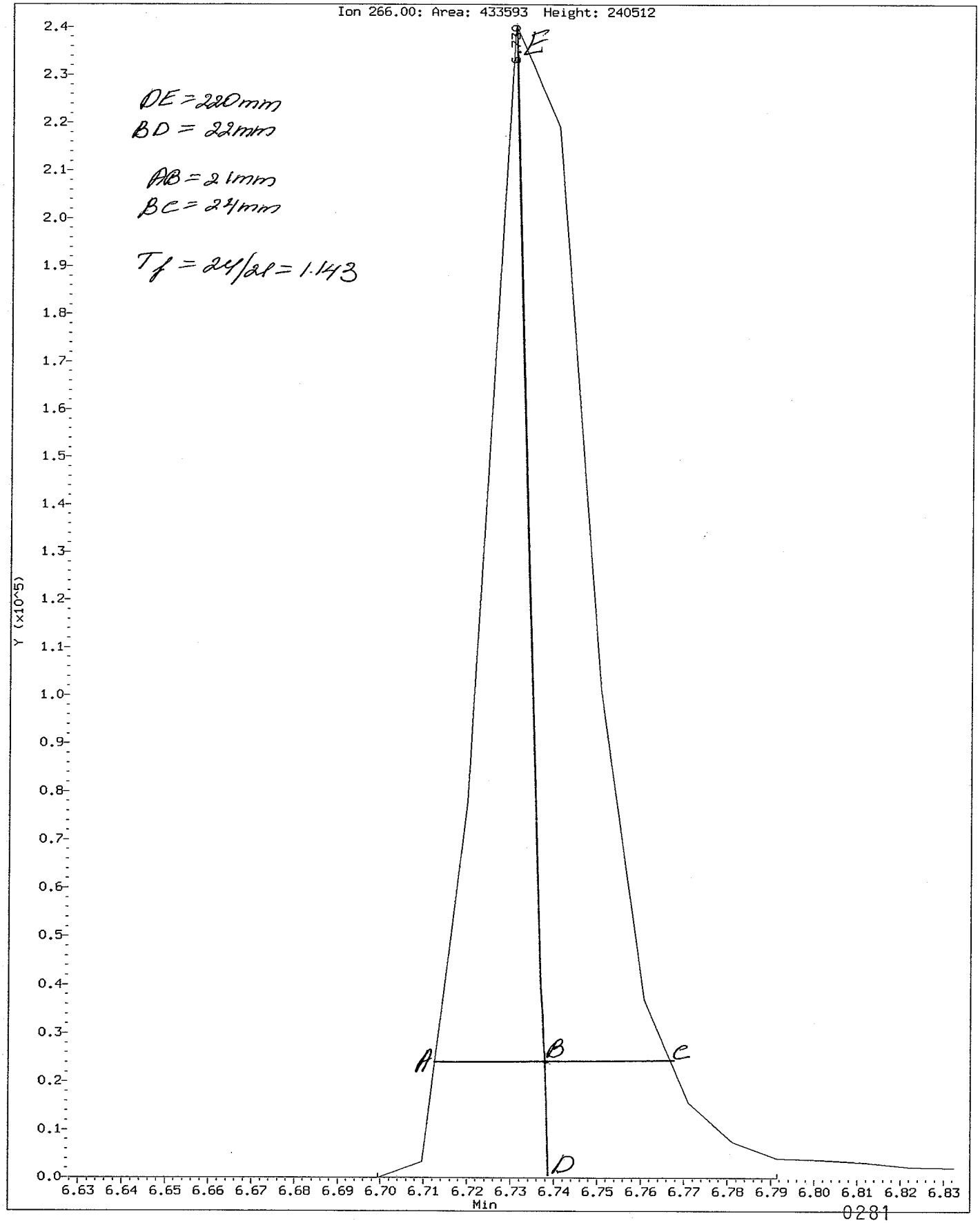
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(7261 + 71178) * 100}{(7261 + 71178 + 970302)}$$

DDT Percent Breakdown = 7.5 %

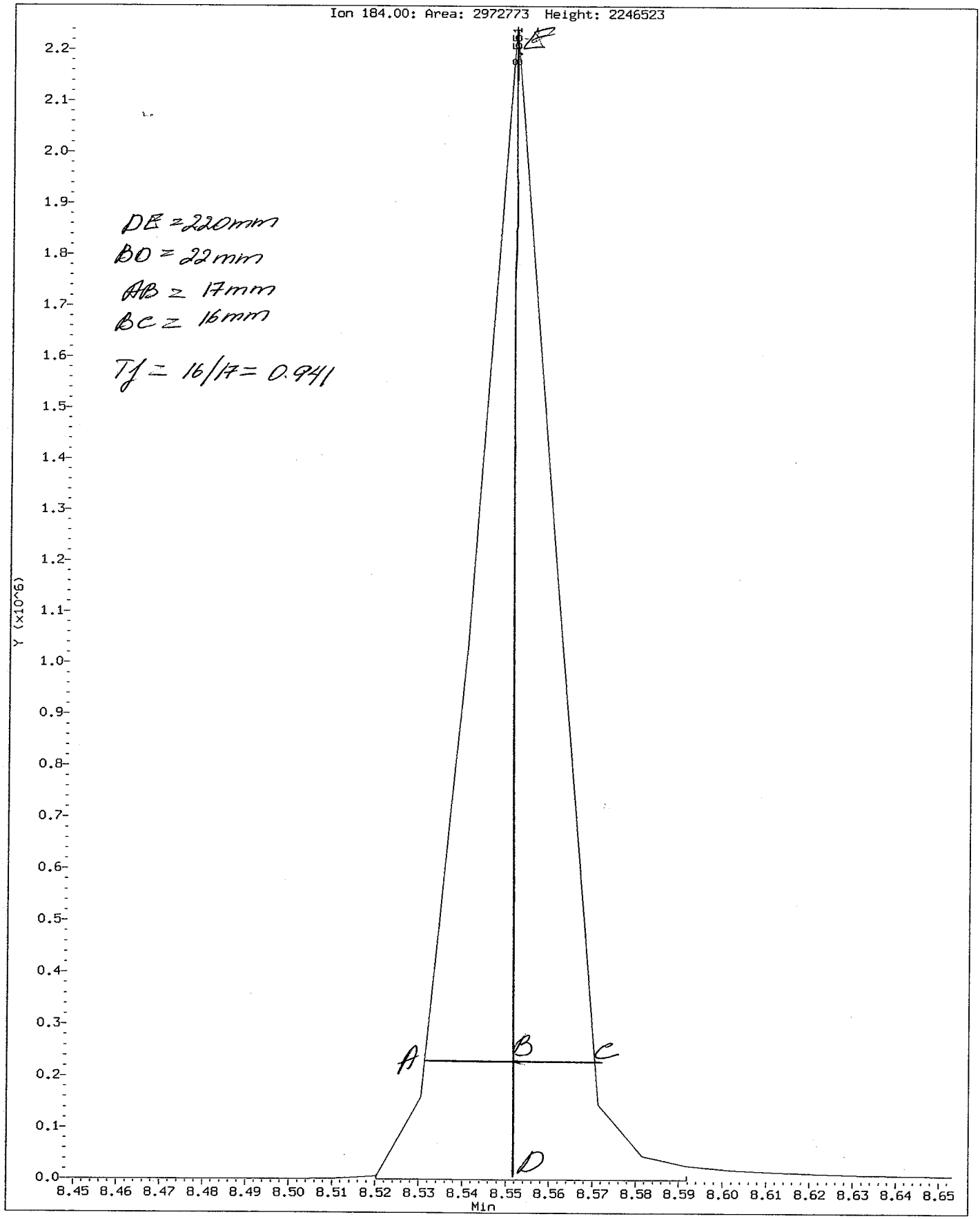
Data File: /chem3/nt1.i/20060804.b/ddt.b/df0804.d
Injection Date: 04-AUG-2006 09:53
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060804.b/ddt.b/df0804.d
Injection Date: 04-AUG-2006 09:53
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt1.i/20060807.b/df0807.d

Date : 07-AUG-2006 10:24

Client ID:

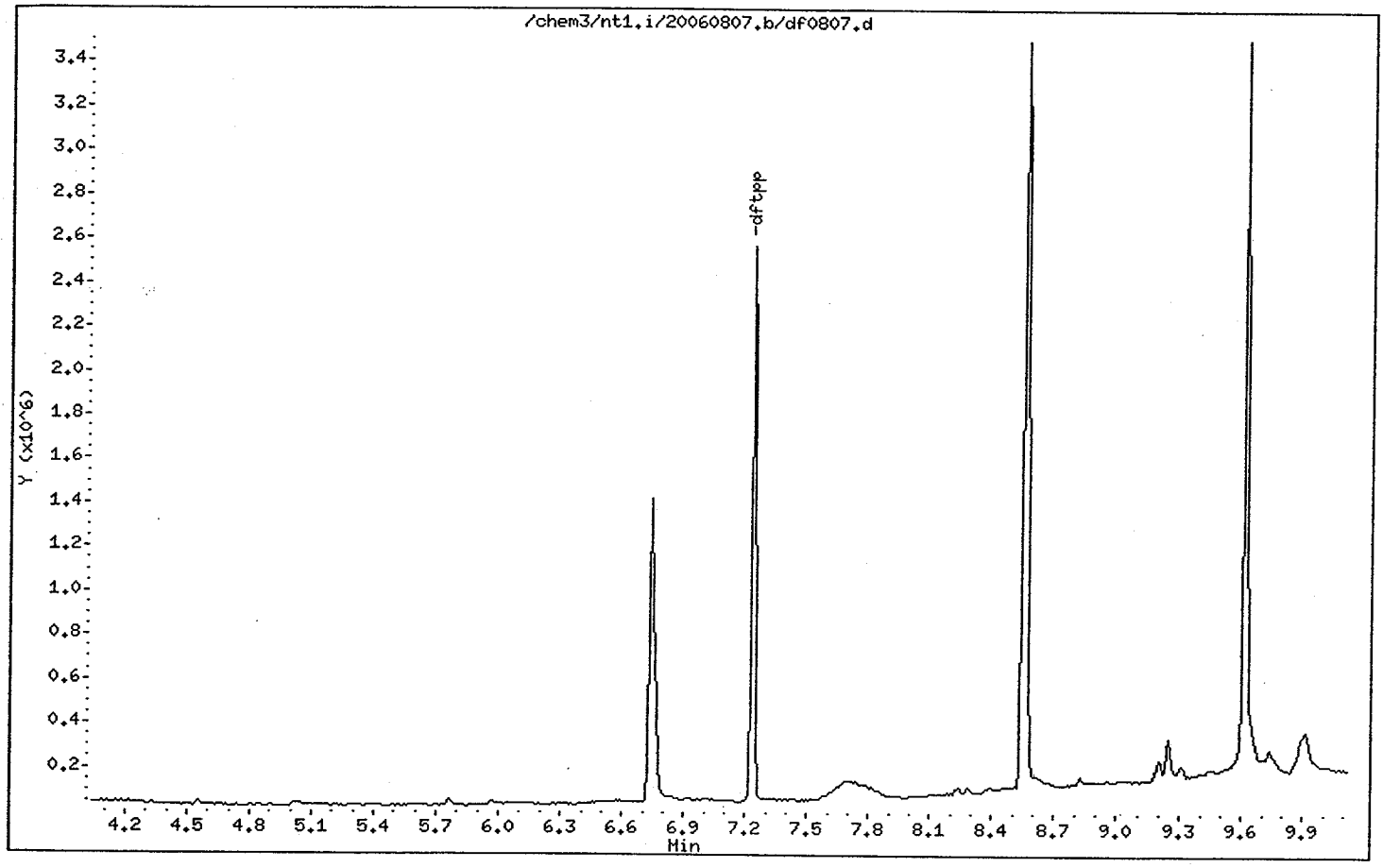
Instrument: nt1.i

Sample Info: DF0807

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060807.b/df0807.d

Date : 07-AUG-2006 10:24

Client ID:

Instrument: nt1.i

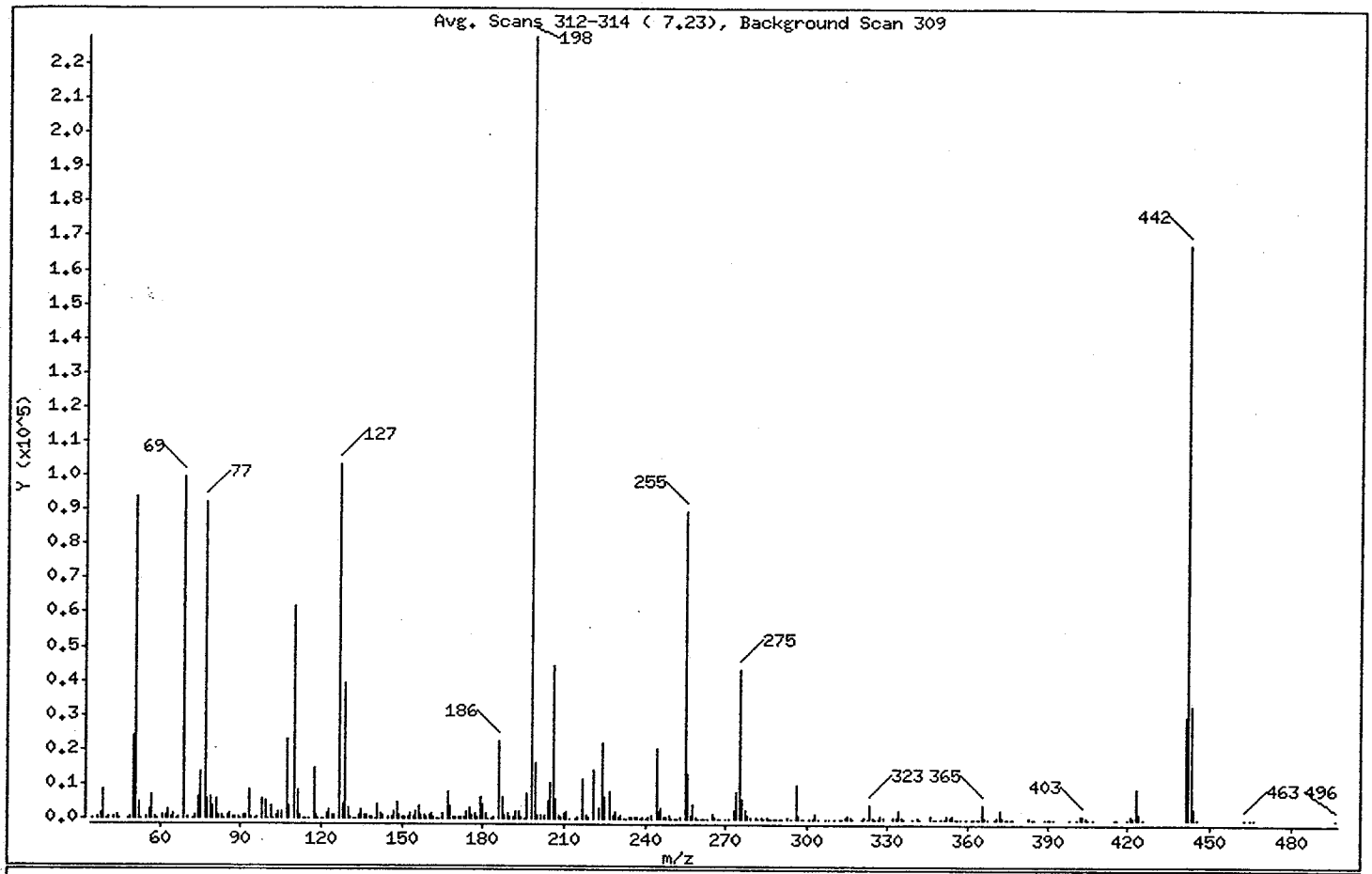
Sample Info: DF0807

Operator: YZ

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	41.21
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.67
70	Less than 2.00% of mass 69	0.16 (0.37)
127	25.00 - 75.00% of mass 198	45.24
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.20
275	10.00 - 30.00% of mass 198	19.01
365	Greater than 0.75% of mass 198	1.92
441	Present, but less than mass 443	13.10
442	40.00 - 110.00% of mass 198	73.50
443	15.00 - 24.00% of mass 442	14.45 (19.67)

Data File: /chem3/nt1.i/20060807.b/df0807.d

Date : 07-AUG-2006 10:24

Client ID:

Instrument: nt1.i

Sample Info: DF0807

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25

Data File: df0807.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	48	130.00	2893	218.00	1181	315.00	1050
37.00	709	131.00	415	219.00	285	316.00	617
38.00	1394	132.00	230	221.00	14336	317.00	154
39.00	8315	133.00	216	223.00	2985	320.00	110
40.00	44	134.00	1067	224.00	21936	321.00	280
41.00	656	135.00	2822	225.00	6071	322.00	143
43.00	324	136.00	917	227.00	7652	323.00	4002
44.00	1011	137.00	1026	228.00	1100	324.00	665
45.00	235	138.00	422	229.00	1891	325.00	193
48.00	141	139.00	560	230.00	391	326.00	53
49.00	630	140.00	130	231.00	957	327.00	919
50.00	24120	141.00	4331	232.00	23	328.00	383
51.00	93888	142.00	1684	233.00	80	332.00	323
52.00	4611	143.00	891	234.00	602	333.00	374
53.00	102	145.00	550	235.00	770	334.00	2372
55.00	576	146.00	630	236.00	508	335.00	527
56.00	2579	147.00	2019	237.00	492	336.00	145
57.00	6629	148.00	4863	238.00	11	339.00	34
58.00	292	149.00	1150	239.00	520	341.00	433
59.00	190	150.00	325	240.00	179	342.00	162
61.00	836	151.00	468	241.00	553	346.00	935
62.00	1087	152.00	481	242.00	1160	347.00	185
63.00	2795	153.00	1498	244.00	20552	348.00	33
64.00	452	154.00	750	245.00	2185	350.00	43
65.00	1531	155.00	2099	246.00	3050	351.00	37
66.00	231	156.00	3832	247.00	414	352.00	1202
67.00	278	157.00	942	248.00	274	353.00	704
69.00	99512	158.00	918	249.00	786	354.00	1265
70.00	372	159.00	559	250.00	189	355.00	106
72.00	157	160.00	924	251.00	226	356.00	46
73.00	804	161.00	1554	252.00	83	357.00	59
74.00	6358	162.00	708	253.00	311	359.00	103
75.00	13469	163.00	45	255.00	89640	361.00	89
77.00	92040	164.00	61	256.00	12920	362.00	46
78.00	5932	165.00	1589	257.00	1086	363.00	40

Data File: /chem3/nt1.i/20060807.b/df0807.d

Date : 07-AUG-2006 10:24

Client ID:

Instrument: nt1.i

Sample Info: DF0807

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25

Data File: df0807.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	6029	167.00	8067	258.00	4083	364.00	64
80.00	3926	168.00	3449	259.00	760	365.00	4378
81.00	5696	169.00	562	260.00	166	366.00	590
82.00	1256	170.00	375	261.00	224	367.00	37
83.00	1230	171.00	534	262.00	117	370.00	150
84.00	42	172.00	673	263.00	122	371.00	279
85.00	1118	173.00	658	265.00	1616	372.00	2528
86.00	1348	174.00	1858	266.00	704	373.00	720
87.00	663	175.00	3266	267.00	180	374.00	50
88.00	526	176.00	1067	268.00	80	375.00	46
89.00	326	177.00	1313	270.00	67	376.00	63
90.00	52	178.00	625	271.00	210	377.00	43
91.00	1267	179.00	6266	273.00	2818	383.00	409
92.00	824	180.00	3977	274.00	7909	384.00	131
93.00	8356	181.00	1731	275.00	43304	385.00	61
94.00	518	182.00	180	276.00	5886	389.00	86
95.00	79	183.00	179	277.00	2744	390.00	174
96.00	652	184.00	319	278.00	977	391.00	153
98.00	6008	186.00	22632	279.00	387	392.00	115
99.00	5404	187.00	6271	281.00	265	398.00	38
100.00	240	188.00	848	282.00	46	401.00	57
101.00	3644	189.00	1375	283.00	675	402.00	881
102.00	172	190.00	328	284.00	176	403.00	1202
103.00	1085	191.00	275	285.00	610	404.00	394
104.00	2260	192.00	1958	286.00	118	405.00	58
105.00	2023	193.00	1928	287.00	37	407.00	37
107.00	22832	194.00	526	288.00	50	415.00	125
108.00	3888	195.00	90	289.00	211	416.00	65
110.00	61944	196.00	7253	290.00	36	420.00	40
111.00	8468	198.00	227840	291.00	54	421.00	1137
112.00	1017	199.00	16408	293.00	678	422.00	651
113.00	188	200.00	1241	294.00	147	423.00	8960
114.00	156	201.00	1223	296.00	9729	424.00	1603
115.00	73	203.00	1150	297.00	1162	425.00	162
117.00	14881	204.00	4999	298.00	91	441.00	29840

Data File: /chem3/nt1.i/20060807.b/df0807.d

Date : 07-AUG-2006 10:24

Client ID:

Instrument: nt1.i

Sample Info: DF0807

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25

Data File: df0807.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1178	205.00	10414	299.00	103	442.00	167424
119.00	184	206.00	44424	301.00	143	443.00	32928
120.00	186	207.00	5614	302.00	234	444.00	2894
121.00	6	208.00	1223	303.00	1396	445.00	110
122.00	1624	209.00	570	304.00	221	463.00	45
123.00	2388	210.00	1407	307.00	33	465.00	41
124.00	1019	211.00	2041	308.00	210	466.00	44
125.00	839	212.00	208	310.00	104	496.00	45
127.00	103080	214.00	104	312.00	140		
128.00	4301	215.00	410	313.00	134		
129.00	39528	217.00	11344	314.00	767		

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

Data file: /chem3/nt1.i/20060807.b/ddt.b/df0807.d
Method: /chem3/nt1.i/20060807.b/ddt.b/sw846ddt.m
Analysis Date: 07-AUG-2006 10:24

ARI ID: DF0807
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.741	322798
Benzidine	8.552	2211081
4,4'-DDE	8.828	4559
4,4'-DDD	9.248	41739
4,4'-DDT	9.616	768935

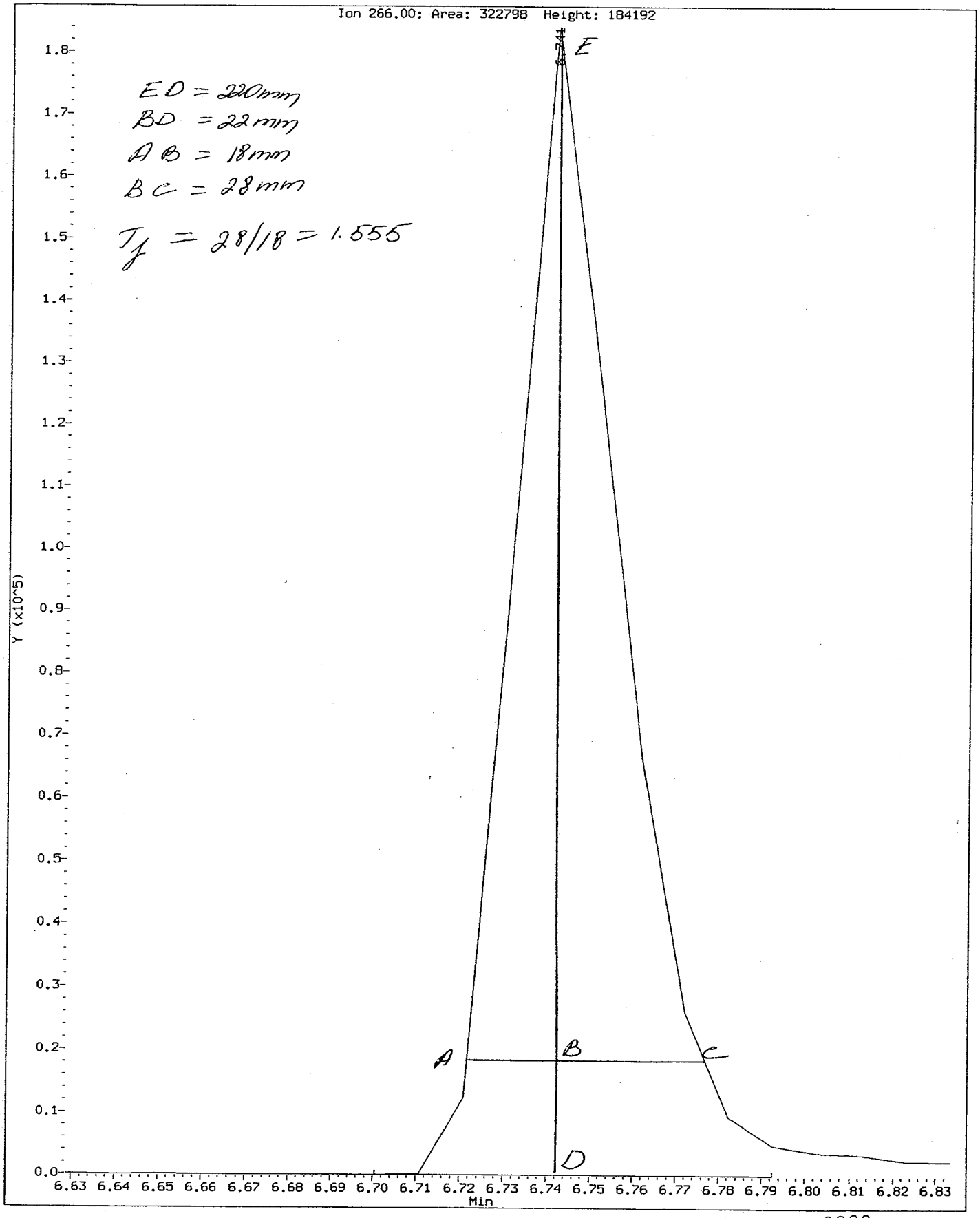
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(4559 + 41739) * 100}{(4559 + 41739 + 768935)}$$

DDT Percent Breakdown = 5.7 %

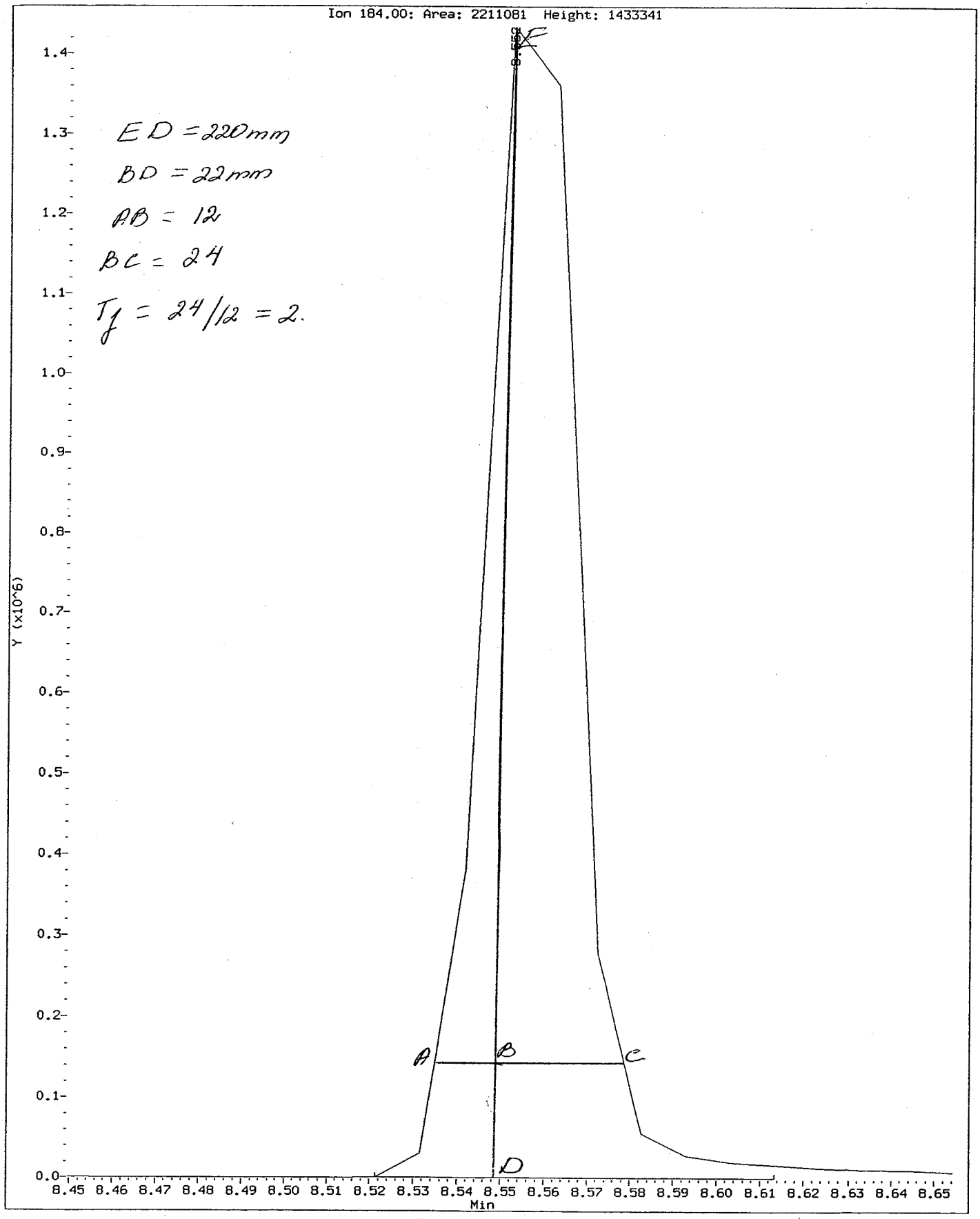
Data File: /chem3/nt1.i/20060807.b/ddt.b/df0807.d
Injection Date: 07-AUG-2006 10:24
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060807.b/ddt.b/df0807.d
Injection Date: 07-AUG-2006 10:24
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt1.i/20060808.b/df0808.d

Date : 08-AUG-2006 09:11

Client ID:

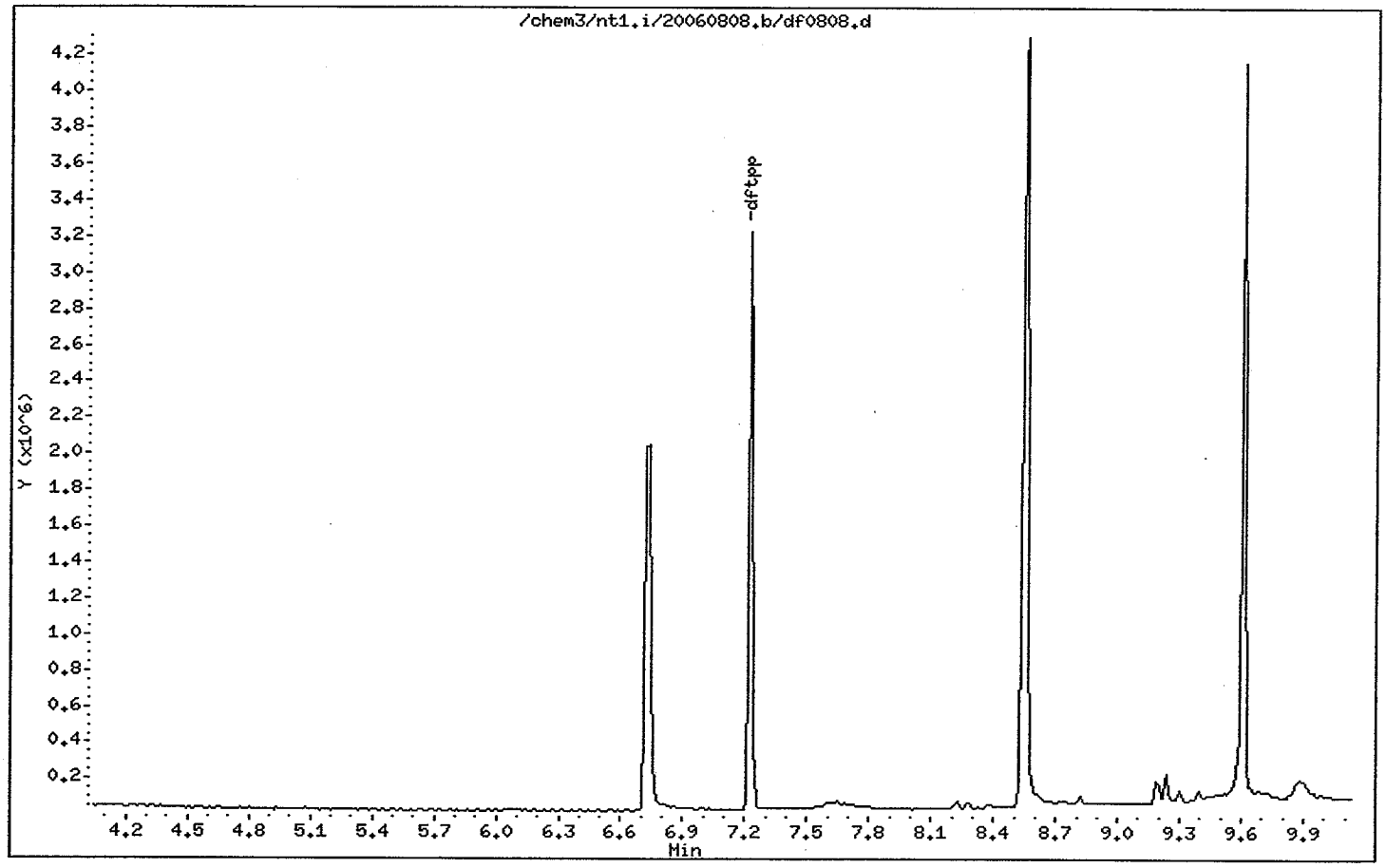
Instrument: nt1.i

Sample Info: DF0808

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060808.b/df0808.d

Date : 08-AUG-2006 09:11

Client ID:

Instrument: nt1.i

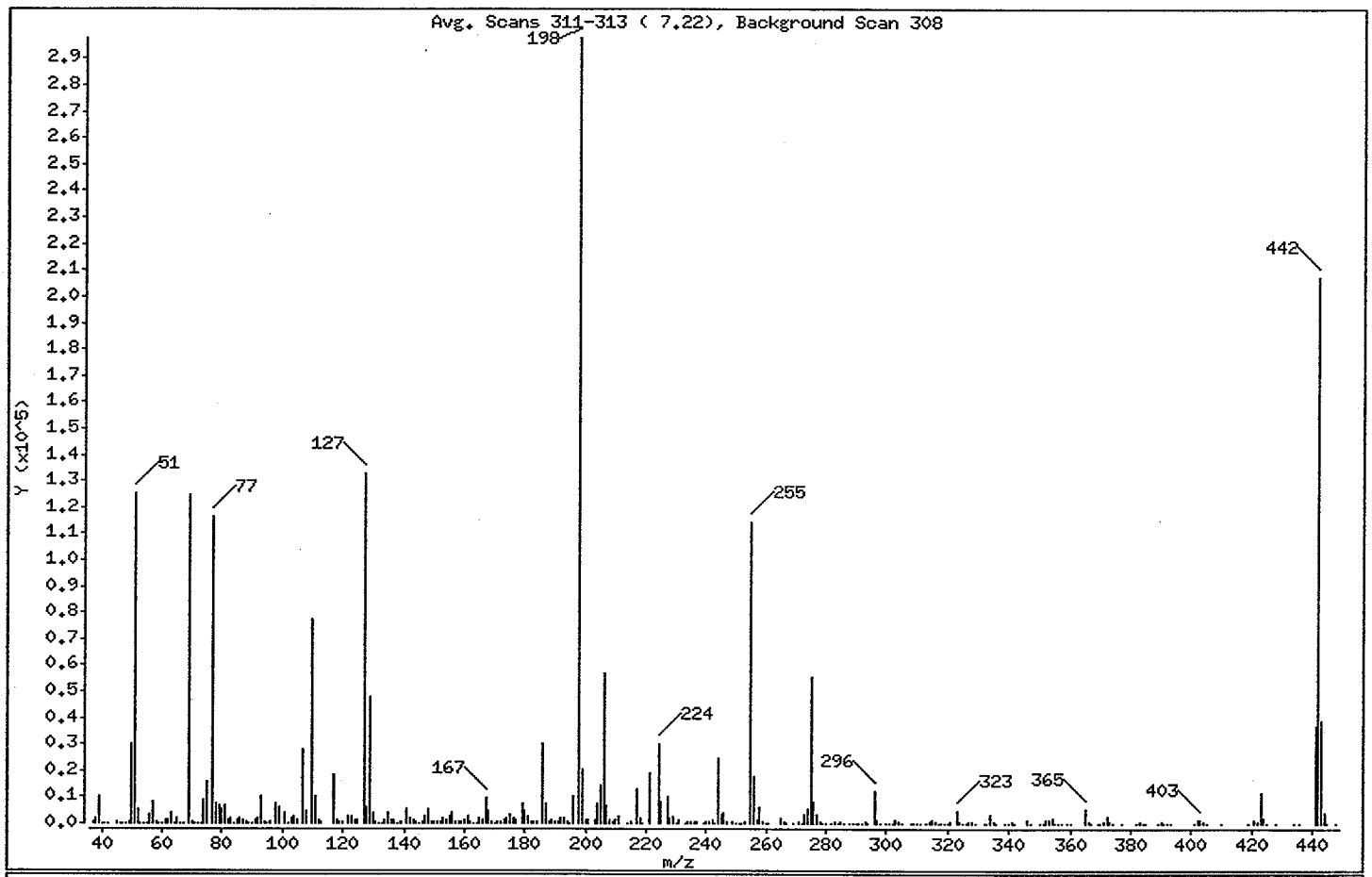
Sample Info: DF0808

Operator: YZ

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	42.14
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.85
70	Less than 2.00% of mass 69	0.12 (0.29)
127	25.00 - 75.00% of mass 198	44.68
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.89
275	10.00 - 30.00% of mass 198	18.59
365	Greater than 0.75% of mass 198	1.90
441	Present, but less than mass 443	12.41
442	40.00 - 110.00% of mass 198	69.74
443	15.00 - 24.00% of mass 442	13.17 (18.89)

Data File: /chem3/nt1.i/20060808.b/df0808.d

Date : 08-AUG-2006 09:11

Client ID:

Instrument: nt1.i

Sample Info: DF0808

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25

Data File: df0808.d
Spectrum: Avg. Scans 311-313 (7.22), Background Scan 308
Location of Maximum: 198.00
Number of points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	488	129.00	47888	215.00	474	315.00	1305
38.00	1891	130.00	4182	217.00	12837	316.00	792
39.00	10509	131.00	877	218.00	1854	317.00	192
40.00	111	132.00	146	219.00	179	318.00	36
41.00	53	133.00	6	221.00	19344	319.00	76
42.00	305	134.00	1464	224.00	29792	320.00	164
45.00	363	135.00	3935	225.00	8222	321.00	533
46.00	106	136.00	1125	227.00	9982	323.00	4760
47.00	80	137.00	1647	228.00	1811	324.00	968
48.00	107	138.00	207	229.00	2455	325.00	107
49.00	383	139.00	363	230.00	88	326.00	90
50.00	30072	141.00	5523	231.00	1410	327.00	826
51.00	125544	142.00	1942	233.00	342	328.00	560
52.00	5657	143.00	1450	234.00	967	329.00	126
53.00	38	144.00	509	235.00	752	332.00	293
54.00	90	145.00	282	236.00	365	333.00	251
55.00	260	146.00	965	237.00	870	334.00	3195
56.00	3650	147.00	2871	239.00	202	335.00	739
57.00	8432	148.00	5590	240.00	601	336.00	117
58.00	601	149.00	927	241.00	415	339.00	47
59.00	121	150.00	426	242.00	1469	340.00	105
60.00	209	151.00	807	243.00	243	341.00	580
61.00	1379	152.00	843	244.00	24912	342.00	173
62.00	1251	153.00	1829	245.00	3656	346.00	1136
63.00	4344	154.00	1577	246.00	3784	347.00	222
64.00	50	155.00	2898	247.00	589	350.00	52
65.00	1758	156.00	4144	249.00	954	351.00	88
66.00	182	157.00	904	250.00	252	352.00	1663
67.00	62	158.00	998	251.00	132	353.00	1058
69.00	124672	159.00	810	252.00	317	354.00	1849
70.00	357	160.00	1540	253.00	374	355.00	225
71.00	114	161.00	2460	255.00	114200	356.00	35
72.00	51	162.00	831	256.00	17920	357.00	72
73.00	238	163.00	241	257.00	1626	359.00	145
74.00	8690	164.00	225	258.00	5975	360.00	89

Data File: /chem3/nt1.i/20060808.b/df0808.d

Date : 08-AUG-2006 09:11

Client ID:

Instrument: nt1.i

Sample Info: DF0808

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25

Data File: df0808.d
Spectrum: Avg. Scans 311-313 (7.22), Background Scan 308
Location of Maximum: 198.00
Number of points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	15917	165.00	1814	259.00	693	365.00	5669
77.00	116568	166.00	1554	260.00	222	366.00	817
78.00	7783	167.00	9906	261.00	256	367.00	44
79.00	6553	168.00	4665	265.00	1951	369.00	82
80.00	5448	169.00	849	266.00	458	370.00	185
81.00	6775	170.00	170	267.00	104	371.00	605
82.00	1264	171.00	480	269.00	39	372.00	2990
83.00	2170	172.00	843	271.00	404	373.00	659
84.00	151	173.00	1320	272.00	68	374.00	98
85.00	1063	174.00	2162	273.00	3553	377.00	42
86.00	1722	175.00	3678	274.00	5691	382.00	43
87.00	1086	176.00	1999	275.00	55368	383.00	929
88.00	562	177.00	1223	276.00	8194	384.00	236
89.00	272	179.00	7821	277.00	3679	385.00	50
90.00	124	180.00	5118	278.00	613	389.00	54
91.00	1683	181.00	2855	279.00	176	390.00	480
92.00	2122	182.00	492	280.00	148	391.00	65
93.00	10591	183.00	405	282.00	79	392.00	154
94.00	753	184.00	736	283.00	663	393.00	35
95.00	67	186.00	30184	284.00	282	401.00	251
96.00	590	187.00	7576	285.00	575	402.00	1395
98.00	7381	188.00	769	286.00	143	403.00	1684
99.00	5987	189.00	1487	288.00	100	404.00	684
101.00	4445	190.00	440	289.00	239	405.00	58
102.00	313	191.00	881	290.00	108	410.00	65
103.00	1738	192.00	2186	291.00	124	419.00	38
104.00	2635	193.00	2138	292.00	181	421.00	1575
105.00	1455	194.00	661	293.00	982	422.00	751
107.00	28056	195.00	144	294.00	218	423.00	11418
108.00	4847	196.00	10486	296.00	12113	424.00	2015
110.00	77576	198.00	297856	297.00	1483	425.00	240
111.00	10385	199.00	20536	298.00	80	428.00	42
112.00	1161	200.00	1381	300.00	52	434.00	45
113.00	430	201.00	1689	301.00	162	436.00	38
117.00	18736	203.00	1681	302.00	202	441.00	36960

Data File: /chem3/nt1.i/20060808.b/df0808.d

Date : 08-AUG-2006 09:11

Client ID:

Instrument: nt1.i

Sample Info: DF0808

Operator: YZ

Column phase: ZB-5

Column diameter: 0.25

Data File: df0808.d
Spectrum: Avg. Scans 311-313 (7.22), Background Scan 308
Location of Maximum: 198.00
Number of points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1227	204.00	7742	303.00	1602	442.00	207744
119.00	354	205.00	14639	304.00	421	443.00	39248
120.00	454	206.00	56968	305.00	72	444.00	3801
122.00	2436	207.00	7109	308.00	220	445.00	202
123.00	3023	208.00	1670	309.00	210	448.00	35
124.00	1671	209.00	609	310.00	141		
125.00	1179	210.00	1189	311.00	118		
127.00	133056	211.00	2535	313.00	68		
128.00	5865	214.00	45	314.00	815		

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

Data file: /chem3/nt1.i/20060808.b/ddt.b/df0808.d
Method: /chem3/nt1.i/20060808.b/ddt.b/sw846ddt.m
Analysis Date: 08-AUG-2006 09:11

ARI ID: DF0808
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.733	469204
Benzidine	8.554	2971908
4,4'-DDE	8.820	5475
4,4'-DDD	9.239	41647
4,4'-DDT	9.607	1012026

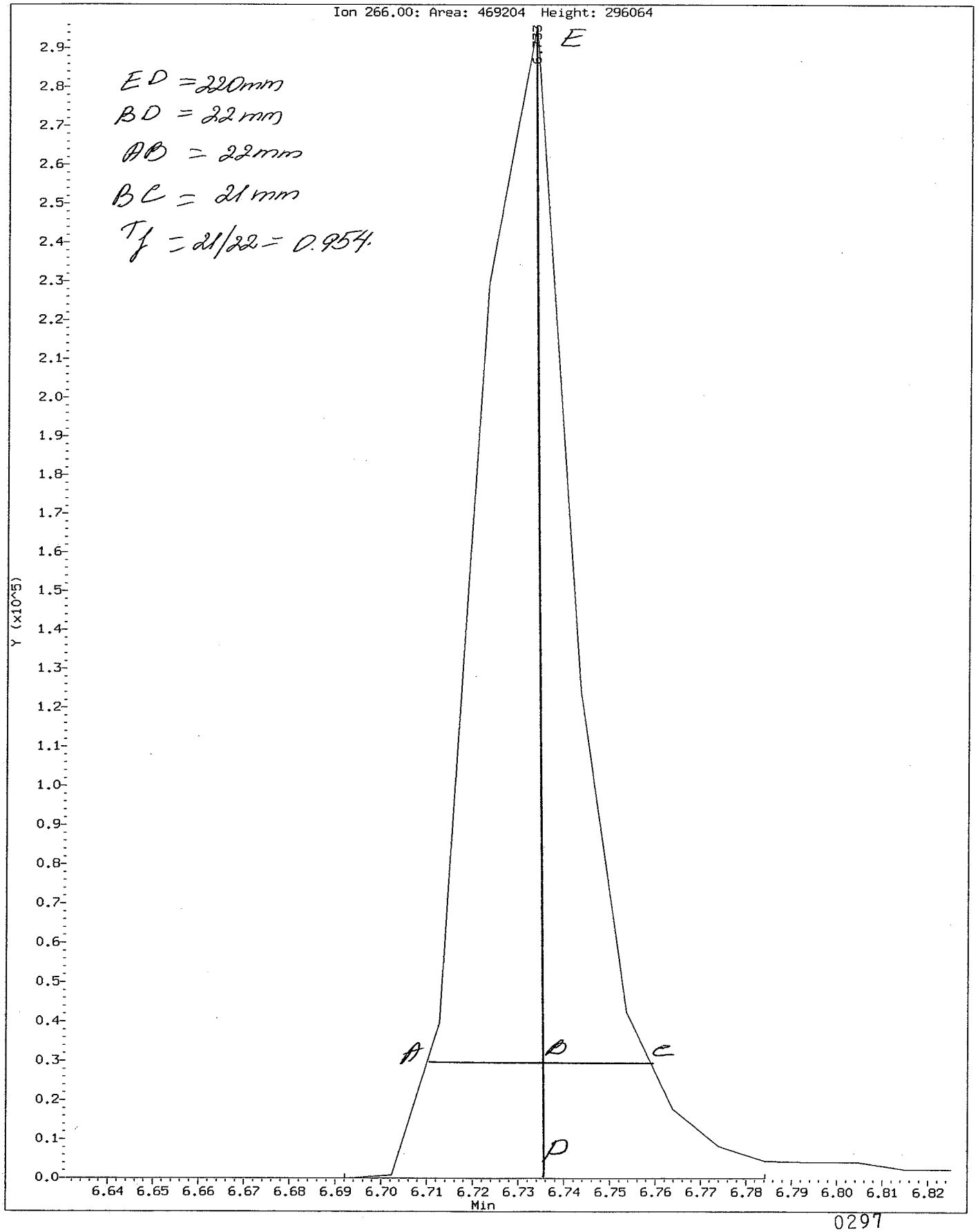
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(5475 + 41647) * 100}{(5475 + 41647 + 1012026)}$$

DDT Percent Breakdown = 4.4 %

Data File: /chem3/nt1.i/20060808.b/ddt.b/df0808.d
Injection Date: 08-AUG-2006 09:11
Instrument: nt1.i
Client Sample ID:

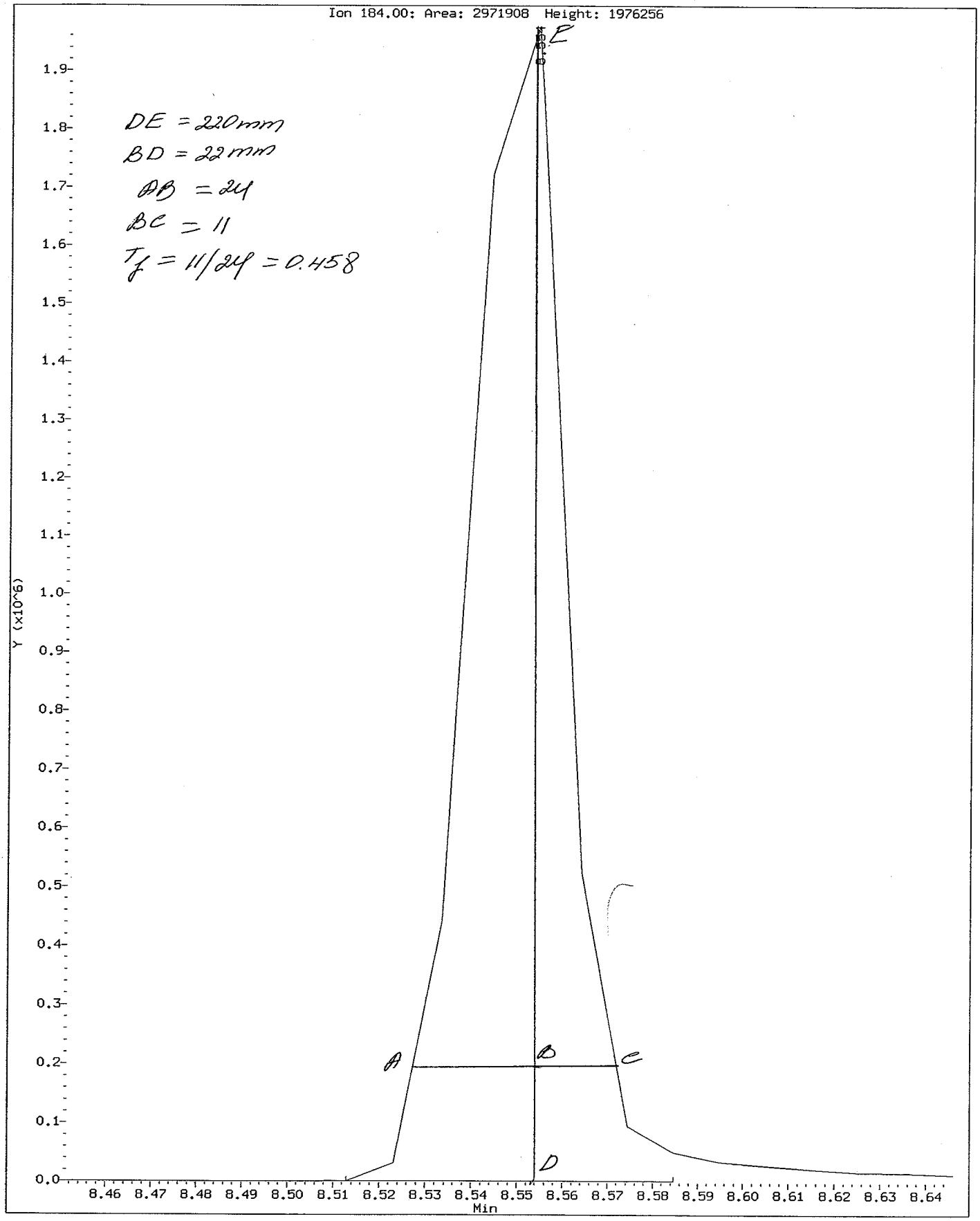
Compound: Pentachlorophenol
CAS Number: 87-86-5



0297

Data File: /chem3/nt1.i/20060808.b/ddt.b/df0808.d
Injection Date: 08-AUG-2006 09:11
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt1.i/20060809.b/df0809.d

Date : 09-AUG-2006 07:32

Client ID:

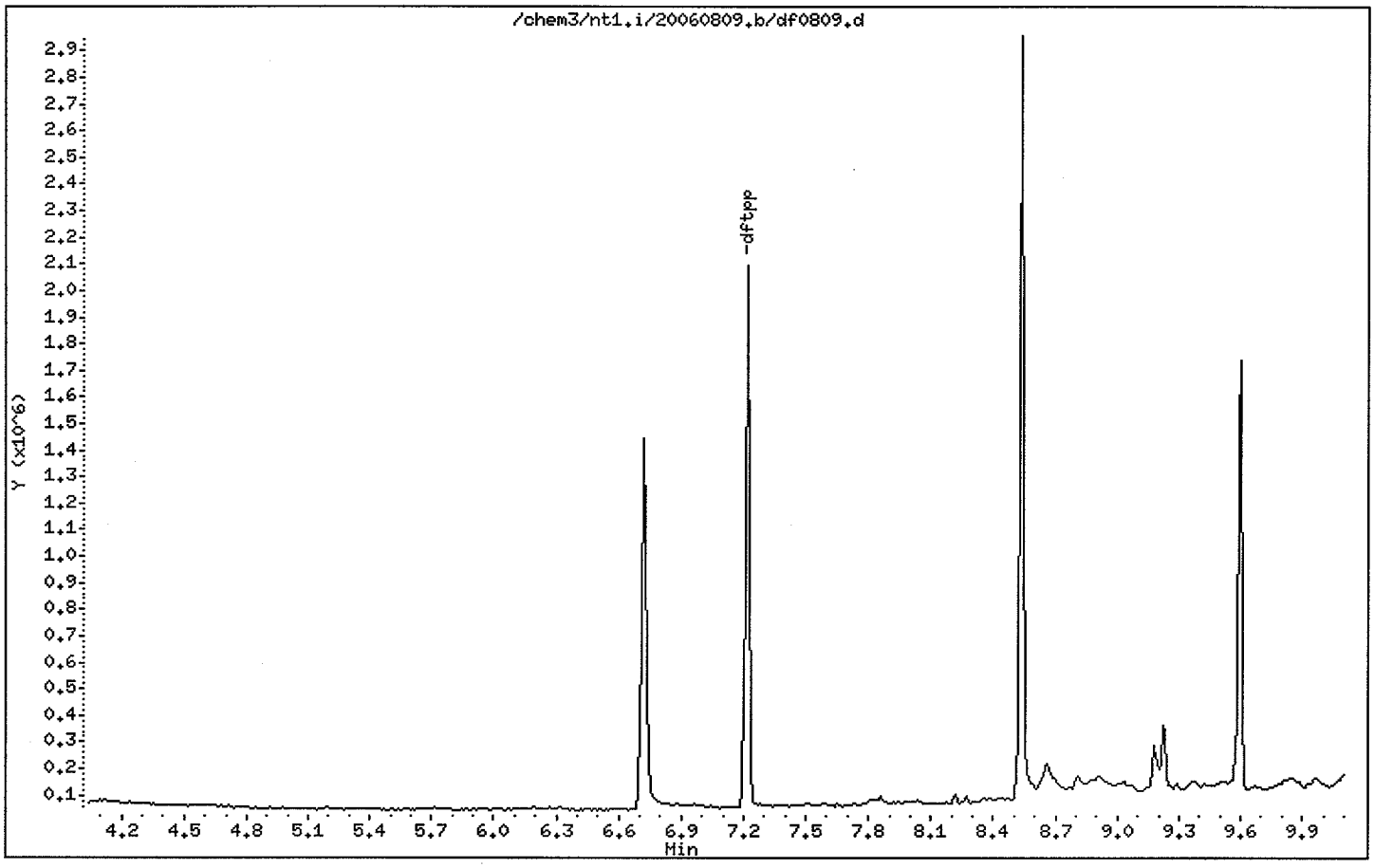
Instrument: nt1.i

Sample Info: DF0809

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060809.b/df0809.d

Date : 09-AUG-2006 07:32

Client ID:

Instrument: nt1.i

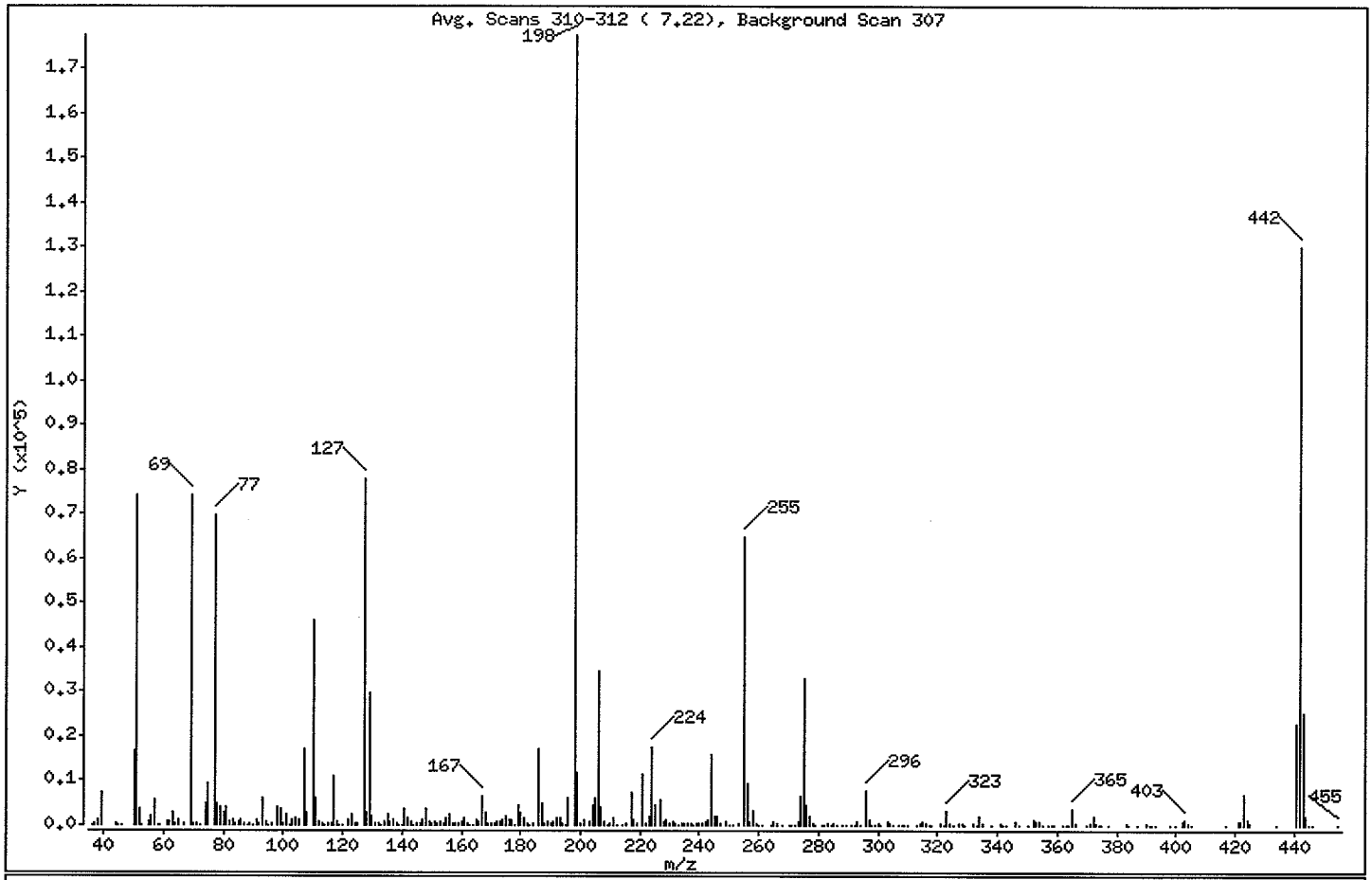
Sample Info: DF0809

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	41.91
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.92
70	Less than 2.00% of mass 69	0.11 (0.27)
127	25.00 - 75.00% of mass 198	43.85
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.60
275	10.00 - 30.00% of mass 198	18.67
365	Greater than 0.75% of mass 198	2.10
441	Present, but less than mass 443	12.83
442	40.00 - 110.00% of mass 198	73.33
443	15.00 - 24.00% of mass 442	14.16 (19.31)

Data File: /chem3/nt1.i/20060809.b/df0809.d

Date : 09-AUG-2006 07:32

Client ID:

Instrument: nt1.i

Sample Info: DF0809

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0809.d
Spectrum: Avg. Scans 310-312 (7.22), Background Scan 307
Location of Maximum: 198.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3	132.00	319	214.00	36	308.00	156
37.00	267	133.00	49	215.00	226	309.00	112
38.00	1171	134.00	974	217.00	7405	310.00	83
39.00	7180	135.00	2288	218.00	1226	313.00	143
44.00	280	136.00	820	219.00	286	314.00	560
45.00	98	137.00	1034	221.00	11408	315.00	752
46.00	32	138.00	290	222.00	443	316.00	585
50.00	16896	139.00	7	223.00	1885	317.00	68
51.00	74376	140.00	95	224.00	17712	318.00	34
52.00	3555	141.00	3553	225.00	4528	321.00	288
53.00	86	142.00	1654	227.00	5842	322.00	129
55.00	819	143.00	848	228.00	989	323.00	3337
56.00	1959	144.00	39	229.00	1357	324.00	474
57.00	5512	145.00	547	230.00	286	325.00	95
58.00	179	146.00	584	231.00	663	327.00	525
59.00	14	147.00	1323	232.00	243	328.00	226
61.00	671	148.00	3759	233.00	108	329.00	98
62.00	621	149.00	680	234.00	360	332.00	297
63.00	2683	150.00	288	235.00	370	333.00	197
64.00	265	151.00	700	236.00	313	334.00	1951
65.00	1098	152.00	260	237.00	351	335.00	491
67.00	232	153.00	1009	238.00	65	338.00	37
69.00	74408	154.00	515	239.00	319	341.00	484
70.00	204	155.00	1705	240.00	208	342.00	174
71.00	348	156.00	2559	241.00	361	343.00	57
72.00	18	157.00	584	242.00	683	346.00	661
74.00	4964	158.00	505	243.00	1032	347.00	110
75.00	9263	159.00	338	244.00	15728	350.00	36
77.00	69656	160.00	879	245.00	2229	352.00	1193
78.00	5003	161.00	1494	246.00	2053	353.00	752
79.00	4137	162.00	466	247.00	502	354.00	1010
80.00	2826	163.00	195	249.00	628	355.00	172
81.00	3982	164.00	161	250.00	147	357.00	50
82.00	806	165.00	1247	251.00	37	358.00	39
83.00	1127	166.00	947	253.00	256	359.00	40

Data File: /chem3/nt1.i/20060809.b/df0809.d

Date : 09-AUG-2006 07:32

Client ID:

Instrument: nt1.i

Sample Info: DF0809

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0809.d
Spectrum: Avg. Scans 310-312 (7.22), Background Scan 307
Location of Maximum: 198.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	226	167.00	6655	255.00	64920	362.00	44
85.00	929	168.00	2781	256.00	9331	363.00	38
86.00	1167	169.00	348	257.00	651	364.00	62
87.00	487	170.00	398	258.00	3349	365.00	3720
88.00	132	171.00	219	259.00	571	366.00	503
89.00	259	172.00	614	260.00	121	370.00	132
90.00	67	173.00	705	261.00	138	371.00	219
91.00	1134	174.00	1211	264.00	69	372.00	1861
92.00	351	175.00	2173	265.00	711	373.00	454
93.00	6195	176.00	1095	266.00	457	374.00	81
94.00	693	177.00	1115	268.00	44	375.00	43
95.00	80	178.00	95	270.00	136	377.00	43
96.00	447	179.00	4513	271.00	160	383.00	496
98.00	4135	180.00	2990	272.00	134	384.00	115
99.00	3793	181.00	1524	273.00	988	387.00	35
100.00	361	182.00	229	274.00	6645	390.00	245
101.00	2357	183.00	110	275.00	33136	391.00	127
102.00	56	184.00	554	276.00	4456	392.00	166
103.00	1054	186.00	17336	277.00	2102	393.00	34
104.00	1566	187.00	4712	278.00	296	398.00	44
105.00	1069	188.00	601	279.00	57	400.00	87
107.00	16952	189.00	869	281.00	137	402.00	861
108.00	2927	190.00	274	282.00	177	403.00	1036
110.00	46304	191.00	673	283.00	273	404.00	350
111.00	6246	192.00	1617	284.00	109	405.00	41
112.00	834	193.00	1613	285.00	309	417.00	34
113.00	328	194.00	219	286.00	81	421.00	823
114.00	152	195.00	128	288.00	42	422.00	993
115.00	289	196.00	6015	289.00	149	423.00	7052
116.00	364	198.00	177472	291.00	143	424.00	1278
117.00	10893	199.00	11708	292.00	41	425.00	209
118.00	784	200.00	576	293.00	687	434.00	48
119.00	115	201.00	1425	294.00	63	441.00	22760
120.00	103	203.00	753	296.00	7725	442.00	130144
122.00	1300	204.00	4431	297.00	1105	443.00	25128

Data File: /chem3/nt1.i/20060809.b/df0809.d

Date : 09-AUG-2006 07:32

Client ID:

Instrument: nt1.i

Sample Info: DF0809

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0809.d
Spectrum: Avg. Scans 310-312 (7.22), Background Scan 307
Location of Maximum: 198.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	2408	205.00	6185	298.00	120	444.00	2026
124.00	584	206.00	34504	299.00	56	445.00	80
125.00	535	207.00	4121	300.00	252	446.00	41
127.00	77816	208.00	818	301.00	28	455.00	38
128.00	3027	209.00	157	303.00	943		
129.00	29832	210.00	562	304.00	257		
130.00	1966	211.00	1659	305.00	81		
131.00	257	212.00	46	307.00	42		

Data File: /chem3/nt1.i/20060810.b/df0810.d

Date : 10-AUG-2006 13:08

Client ID:

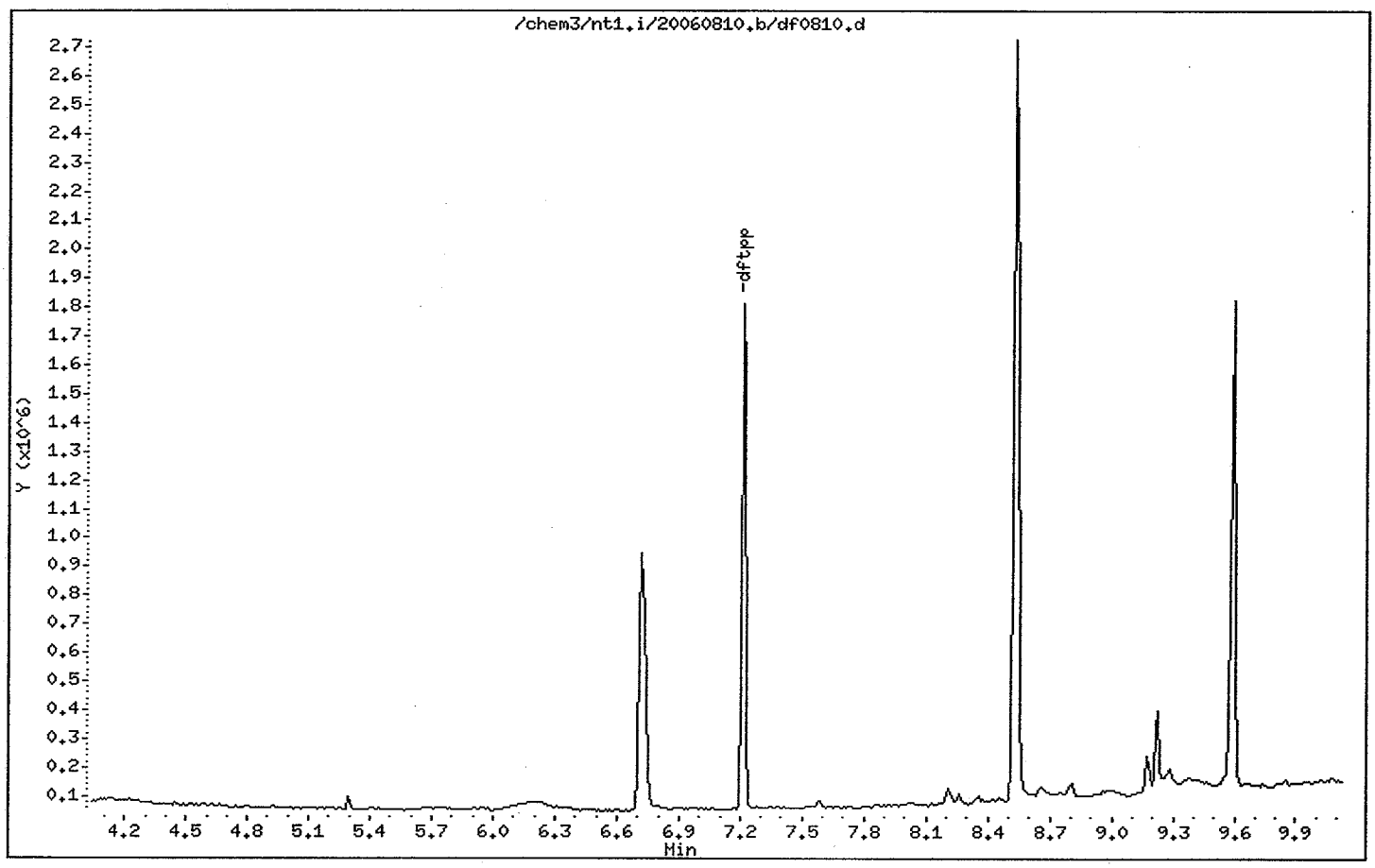
Instrument: nt1.i

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

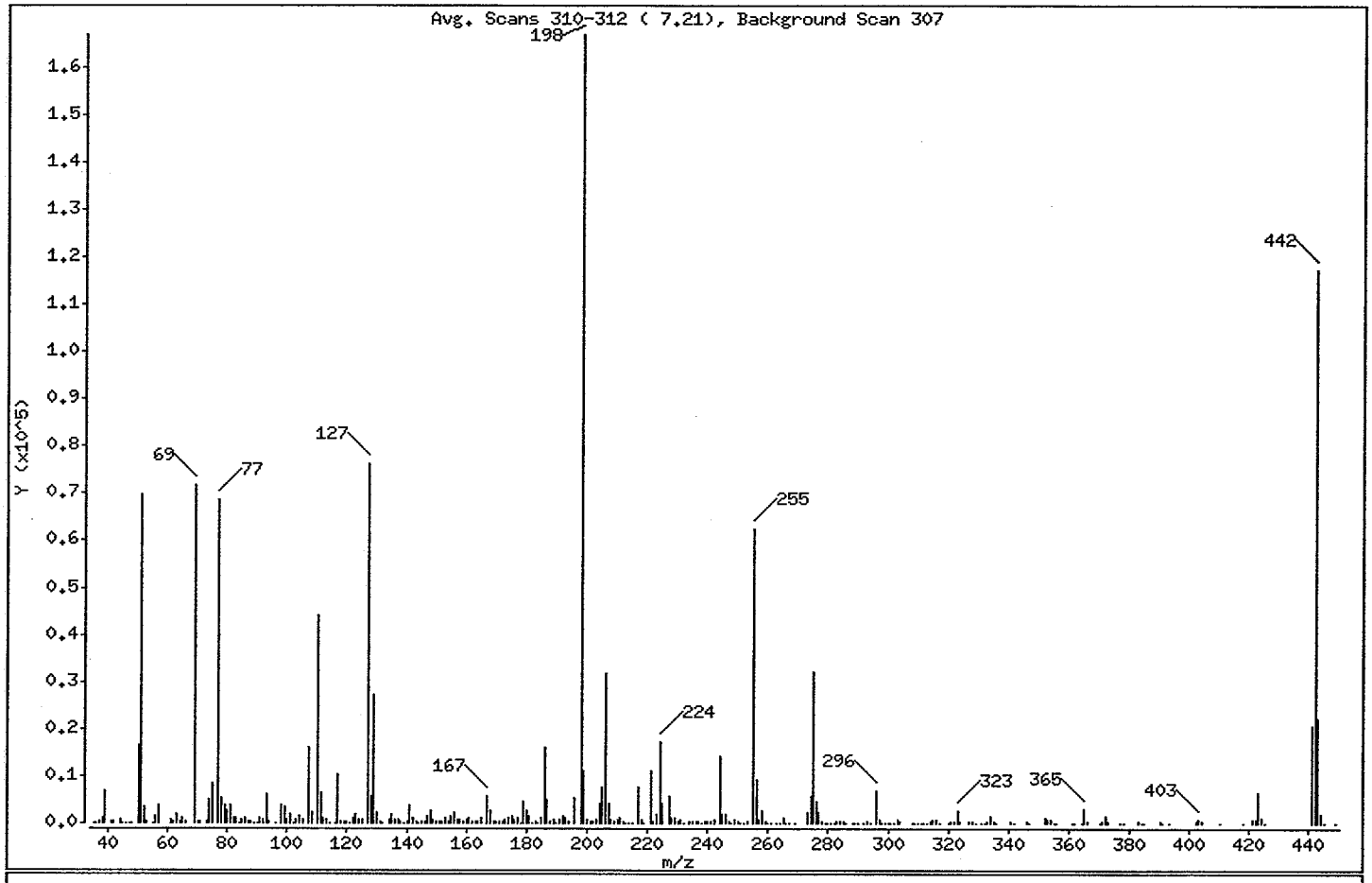
Sample Info: DF0810

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 INCORPORATED

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

Sample ID: MB-080106
METHOD BLANK

Lab Sample ID: MB-080106
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 08/01/06
Date Analyzed: 08/07/06 11:15
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

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

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

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracen	74.3%

YZ 8/9/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060807.b/jq35mb.d
Lab Smp Id: JQ35MBS1 — Client Smp ID: JQ35MBS1
Inj Date : 07-AUG-2006 11:15
Operator : VTS — Inst ID: nt1.i
Smp Info : JQ35MBS1
Misc Info : 06-12971
Comment : 1ul Injection
Method : /chem3/nt1.i/20060807.b/simpna.m
Meth Date : 07-Aug-2006 11:35 yev — Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 — Cal File: ic0806f.d
Als bottle: 1 — QC Sample: BLANK
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	10.00000	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	6.889	6.891	(1.000)	196430	2.00000	
2 Naphthalene	128	Compound Not Detected.					
$ 3 2-Methylnaphthalene-d10	152	7.646	7.648	(1.110)	94855	1.87482	93.74
4 2-Methylnaphthalene	142	Compound Not Detected.					
5 1-Methylnaphthalene	142	Compound Not Detected.					
7 Acenaphthylene	152	Compound Not Detected.					
* 8 Acenaphthene-d10	164	8.952	8.954	(1.000)	104230	2.00000	
9 Acenaphthene	153	Compound Not Detected.					
10 Dibenzofuran	168	Compound Not Detected.					
11 Fluorene	166	Compound Not Detected.					
* 15 Phenanthrene-d10	188	10.766	10.762	(1.000)	173132	2.00000	
16 Phenanthrene	178	Compound Not Detected.					
17 Anthracene	178	Compound Not Detected.					
19 Fluoranthene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	Compound Not Detected.					
	22 Benzo(a)anthracene	228	Compound Not Detected.					
*	23 Chrysene-d12	240	14.082	14.078	(1.000)	159409	2.00000	
	24 Chrysene	228	Compound Not Detected.					
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	Compound Not Detected.					
	30 Benzo(a)pyrene	252	Compound Not Detected.					
*	31 Perylene-d12	264	16.032	16.034	(1.000)	172927	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
$	32 Dibenz(a,h)anthrancene-d14	292	17.923	17.931	(1.118)	147698	2.23180	111.6
	34 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	35 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	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	Compound Not Detected.					
	53 Perylene	252	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq35mb.d
Lab Smp Id: JQ35MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060807.b/simpna.m
Misc Info: 06-12971

Calibration Date: 07-AUG-2006
Calibration Time: 10:39
Client Smp ID: JQ35MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	231039	115520	462078	196430	-14.98
8 Acenaphthene-d10	129131	64566	258262	104230	-19.28
15 Phenanthrene-d10	212850	106425	425700	173132	-18.66
23 Chrysene-d12	190817	95408	381634	159409	-16.46
31 Perylene-d12	197592	98796	395184	172927	-12.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.89	6.39	7.39	6.89	-0.03
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.02
15 Phenanthrene-d10	10.76	10.26	11.26	10.77	0.04
23 Chrysene-d12	14.08	13.58	14.58	14.08	0.03
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.

Analytical Resources, Inc.

RECOVERY REPORT

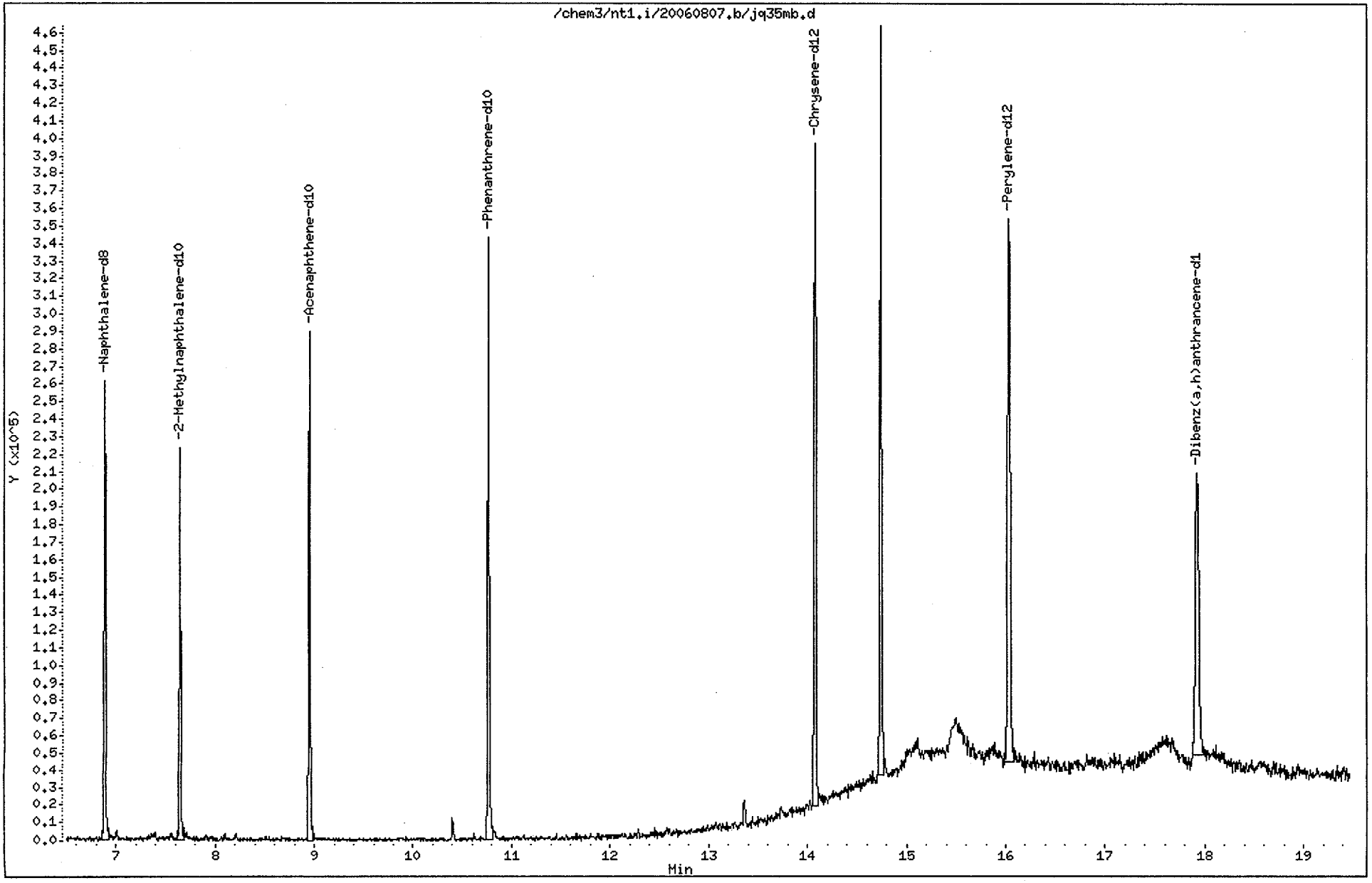
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ35MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060807.b/simpna.m
Misc Info: 06-12971

Client SDG: JQ35
Fraction: SV
Client Smp ID: JQ35MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.0	93.74	62.49	32-97
$ 32 Dibenz(a,h)anthran	150.0	111.6	74.39	21-105

Data File: /chem3/nt1.i/20060807.b/jq35mb.d
Date : 07-AUG-2006 11:15
Client ID: JQ35MBS1
Sample Info: JQ35MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0314

YZ 8/9/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060807.b/jq35sb.d
Lab Smp Id: JQ35LCSS1 Client Smp ID: JQ35LCSS1
Inj Date : 07-AUG-2006 11:40
Operator : VTS Inst ID: nt1.i
Smp Info : JQ35LCSS1
Misc Info : 06-12971
Comment : 1ul Injection
Method : /chem3/nt1.i/20060807.b/simpna.m
Meth Date : 07-Aug-2006 11:35 yev Quant Type: ISTD
Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
Als bottle: 2 QC Sample: LCS
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	10.00000	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	6.888	6.891	(1.000)	226245	2.00000	
2 Naphthalene	128	6.912	6.915	(1.003)	225362	1.99700	99.85
$ 3 2-Methylnaphthalene-d10	152	7.645	7.648	(1.110)	131653	2.25923	113.0
4 2-Methylnaphthalene	142	7.686	7.683	(1.116)	145343	2.17479	108.7
5 1-Methylnaphthalene	142	7.816	7.813	(1.135)	138277	1.97253	98.63
7 Acenaphthylene	152	8.774	8.771	(0.980)	221193	2.15800	107.9
* 8 Acenaphthene-d10	164	8.951	8.954	(1.000)	123629	2.00000	
9 Acenaphthene	153	8.992	8.989	(1.005)	131698	2.16952	108.5
10 Dibenzofuran	168	9.182	9.178	(1.026)	185863	2.07865	103.9
11 Fluorene	166	9.601	9.604	(1.073)	163099	2.34309	117.2
* 15 Phenanthrene-d10	188	10.766	10.762	(1.000)	200567	2.00000	
16 Phenanthrene	178	10.795	10.792	(1.003)	249111	2.41978	121.0
17 Anthracene	178	10.848	10.851	(1.008)	241336	2.34581	117.3
19 Fluoranthene	202	12.290	12.287	(1.142)	275557	2.62425	131.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.574	12.577	(0.893)	295289	2.47017	123.5
	22 Benzo(a)anthracene	228	14.057	14.054	(0.998)	278347	2.48289	124.1
*	23 Chrysene-d12	240	14.081	14.078	(1.000)	186165	2.00000	
	24 Chrysene	228	14.111	14.107	(1.002)	269441	2.60578	130.3
	28 Benzo(b)fluoranthene	252	15.452	15.455	(0.964)	290370	2.61084	130.5
	29 Benzo(k)fluoranthene	252	15.488	15.484	(0.966)	309474	2.61009	130.5
	30 Benzo(a)pyrene	252	15.949	15.951	(0.994)	250684	2.31322	115.7
*	31 Perylene-d12	264	16.037	16.034	(1.000)	197062	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	18.005	18.002	(1.123)	295716	2.37283	118.6
$	32 Dibenz(a,h)anthrancene-d14	292	17.923	17.931	(1.118)	194708	2.58182	129.1
	34 Dibenz(a,h)anthracene	278	17.994	17.996	(1.122)	250787	2.46327	123.2
	35 Benzo(g,h,i)perylene	276	18.591	18.581	(1.159)	266677	2.57420	128.7
	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	Compound Not Detected.					
	53 Perylene	252	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: jq35sb.d
Lab Smp Id: JQ35LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060807.b/simpna.m
Misc Info: 06-12971

Calibration Date: 07-AUG-2006
Calibration Time: 10:39
Client Smp ID: JQ35LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	231039	115520	462078	226245	-2.07
8 Acenaphthene-d10	129131	64566	258262	123629	-4.26
15 Phenanthrene-d10	212850	106425	425700	200567	-5.77
23 Chrysene-d12	190817	95408	381634	186165	-2.44
31 Perylene-d12	197592	98796	395184	197062	-0.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.89	6.39	7.39	6.89	-0.04
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.03
15 Phenanthrene-d10	10.76	10.26	11.26	10.77	0.03
23 Chrysene-d12	14.08	13.58	14.58	14.08	0.02
31 Perylene-d12	16.03	15.53	16.53	16.04	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: JQ35LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060807.b/simpna.m
Misc Info: 06-12971

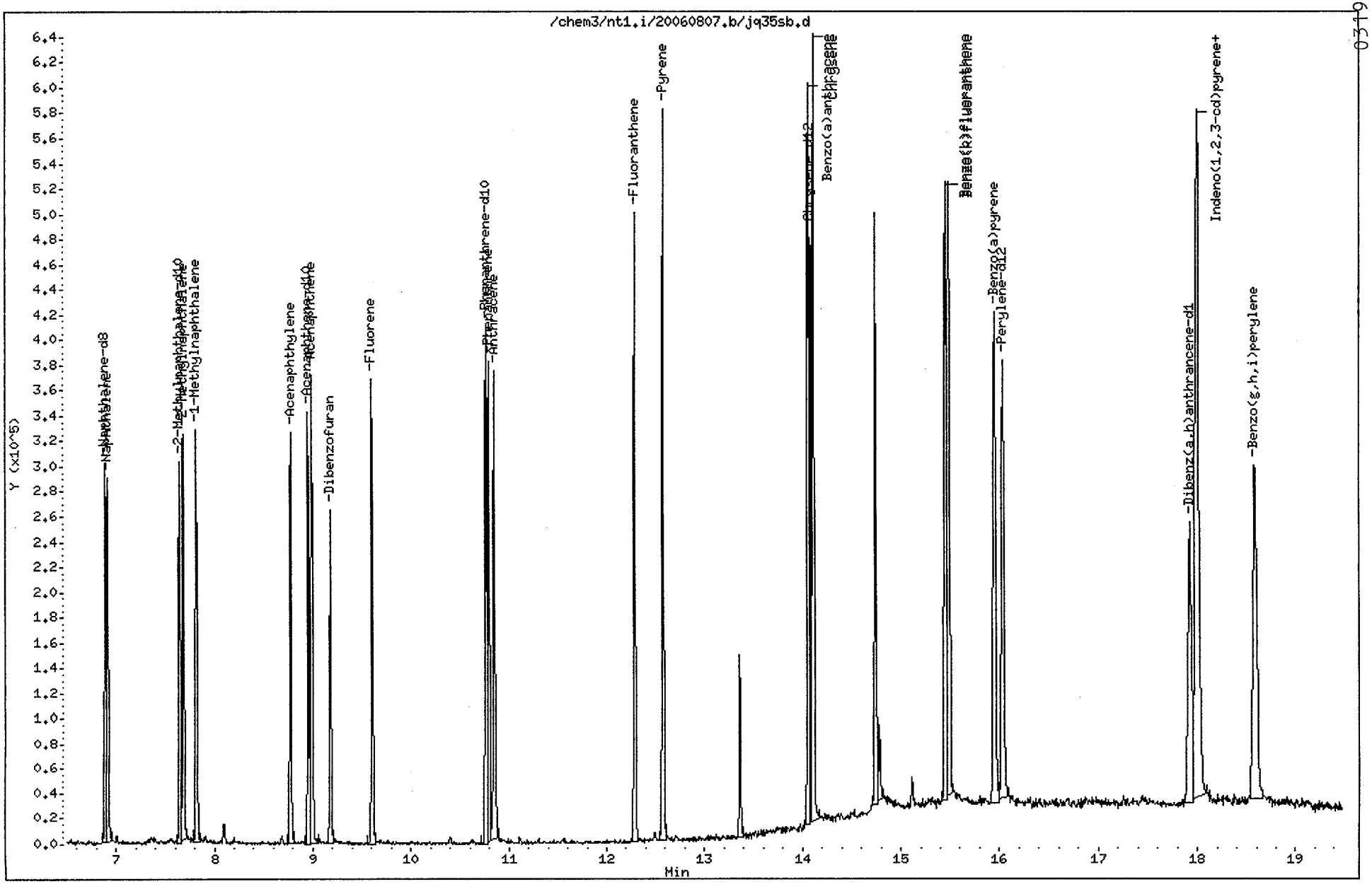
Client SDG: JQ35
Fraction: SV
Client Smp ID: JQ35LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
16 Phenanthrene	150.0	121.0	80.66	46-107
24 Chrysene	150.0	130.3	86.86	49-108
29 Benzo(k)fluoranthe	150.0	130.5	87.00	37-94

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.0	113.0	75.31	32-97
$ 32 Dibenz(a,h)anthran	150.0	129.1	86.06	21-105

Data File: /chem3/nt1.i/20060807.b/jq35sb.d
Date : 07-AUG-2006 11:40
Client ID: JQ35LCSS1
Sample Info: JQ35LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

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



0719

SIM Semivolatile Analysis
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

QA LIMs # _____
EXT LIMs # _____
Bid # SM073ØA-Ø1

(8270)PNA/ SIM PNA/(8310)PNA– Soil/Sediment
In House_____ PSDDA_____ ~~Pro-Sep~~ X
(3550B) Microtip_____ low level
(3550B Macrotip X
KD X
Turbovap X

ANALYTICAL RESOURCES INCORPORATED

Client Name: Anchor Environmental

ARI Job No(s): JQ35, JQ52

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted	GPC Aliquot #1/#2	~~Alumina~~ Aliquot ~~Silica Gel~~	Final Effective Volume .5mL	Volume To Lab .5mL	Time Extracted 13:05 Comments
MB: JQ35 MB	8/1	10.00					
B: SB	↓	10.00					
A	checked	19.00					
B		4.00					
C		4.00					
D		3.54					
E		4.54					
F		17.00					
G		15.04					
H		19.50					
I		5.02					
J		4.04					
K		4.50					
L		13.00					
M		19.54					
N		13.54					
O		14.50					
P		12.50					
PMS		12.52					06-12971
PMSD	↓	12.50		✓	✓	✓	06-13102
8/1	Date/Analyst:			8/3 8/4			

KD: GAH 8-1-06

urrogate Amount: 50 ul Added By: CW /Spk. Witness ||||
Concentration: 30/150 ng/mL ID: 1499-4

Spike Amount: 50 ul Added By: CW /Spk. Witness ||||
S Concentration: 30/150 ng/mL ID: 1393-03
ly

(DCM) Solvent Lot ID: P2978
(Acetonitrile) Solvent Lot ID: N/A
(1:1 DCM/Acetone) Reagent ID: P485
0% Silica ~~(2%) Alumina~~ ID: I2620
Na2So4 ID: I2963
Neutral glasswool ID: 3-12 H1

Hexane: I3204

007F Spike Amount: 50 ul Added by CW w ||||
/MSD Concentration: 30/150 ng/mL ID 1254-04B
only

Revision 6
7/29/03

QA LIMs # _____
EXT LIMs # _____
Bid # SM073QA-01

(8270)PNA/ SIM PNA/(8310)PNA– Soil/Sediment
In House_____ PSDDA_____ Pro-Sep_____
(3550B) Microtip_____
(3550B Macrotip_____
KD_____
Turbovap_____

ANALYTICAL RESOURCES INCORPORATED

Client Name: _____

ARI Job No(s): JQ35, JQ52

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted	GPC Aliquot #1 / #2	~~Alumina~~ Silica Aliquot 1:1	Final Effective Volume	Volume To Lab	Time Extracted _____ Comments
~~MB:~~							
~~SB:~~							
JQ52 A	checked	18.54		↓	↓	↓	
B	↓	17.54					
C		21.02					
D		12.02					
Date/Analyst:				TH 8/4	→	→	

Surrogate Amount: _____ Added By: _____/Spk. Witness_____
Concentration: _____ ID: _____

Spike Amount: _____ Added By: _____/Spk. Witness_____
Concentration: _____ ID: _____

(DCM) Solvent Lot ID: _____
(Acetonitrile) Solvent Lot ID: _____
(1:1 DCM/Acetone) Reagent ID: _____
(2%) Alumina ID: _____
Na2So4 ID: _____
Neutral glasswool ID: _____

ANALYTICAL RESOURCES INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JQ52

Client Name: Anchor Environmental

Parameter: SIM PNA low lvl

Client Project: T4 Early Action

3575 SOP Number(s)

☐ No Anomalies

List problems, corrective actions, and any other pertinent information:

Extraction

Analyst: _____

Date Extracted: _____

See Reverse Side for Additional Information

3056F

Rev. 5
2/15/01

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: JQ52 Client ID: Anchor Environmental

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): Sim PNA's

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 8.4.2006 Analysis Start Date: 8.7.2006

DFTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	~~MS/MSD Recovery in Control?~~	~~YES / NO~~
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- Linked to JQ35
- Includes forms, curve, logbook pages.
- Sample A showed E values @ 10X (A-D All run @ 10X) See ADL @ 50X
- Do Not recommend reporting below curve value per Additional Analytes due to NO MDL values and that we ARE NOT well versed in those new PNA's.

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 8.10.2006

Reviewer's Signature: [signature] **Date:** 8/10/06

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM PNA curve Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): SIM PNA

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 8/4/2006 Analysis Start Date: _____

DFTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

6 points curve for routine analytes + additional analytes:

Biphenyl
2,6 Dimethylnaphthalene
2,3,5 Trimethylnaphthalene
1- Methylphenanthrene
Benzo-(e)pyrene
Perylene.

all RSD<15%, all averaged

Additional Details on Reverse: Yes / No

Analyst Signature: YB **Date:** 8/4/06

Reviewer's Signature: [signature] **Date:** 8.4.2006

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 8/4/2006 Analysis: SIM PNA Analyst: YZ

GC Program: ~~AT~~ SIM PNA Column No: 97876 Column Type: ZB-5

Instrument Tune (.U or .CT.): 1216 U EM Voltage: 1700

Calibration File: DF0804 Curve Date: 08/04/06

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1408-04)(1416-02)	(1330-04) @ 20X

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060804.b

	Time	Filename	LabID	ClientId	DF											
1	0953	df0804.d	DF0804		1	NO ISTDS FOUND										
2	1025	ic0803a.d	IC0803A		1	6.88	222814	8.95	123591	10.76	200797	14.08	171210	16.03	183426	
3	1049	ic0803b.d	IC0803B		1	6.88	258376	8.95	134818	10.76	213897	14.08	186768	16.03	190332	
4	1114	ic0803c.d	IC0803C		1	6.88	240196	8.95	130781	10.75	214296	14.07	190807	16.02	191469	
5	1139	ic0804d.d	IC0803D		1	6.88	245793	8.95	134787	10.76	216386	14.07	183473	16.03	196521	
6	1204	ic0805e.d	IC0803E		1	6.88	305770	8.95	166121	10.76	269899	14.07	235891	16.03	239658	
7	1228	ic0806f.d	IC0803F		1	6.88	245095	8.95	131758	10.76	219114	14.07	191517	16.03	197414	
8	1253	jp87mb.d	JP87MBW1	JP87MBW1	1	6.88	228604	8.95	127686	10.76	211581	14.08	191918	16.03	195235	
9	1318	jp87sb.d	JP87LCSW1	JP87LCSW1	1	6.88	303611	8.95	159367	10.76	257063	14.07	220410	16.03	214214	
10	1343	jp87ad.d	JP87AD		1	6.88	270931	8.95	140164	10.76	231423	14.08	208242	16.03	193229	
11	1408	jq33mb.d	JQ33MBS1	JQ33MBS1	1	6.88	232087	8.95	116948	10.76	201358	14.07	181056	16.03	177519	
12	1433	jq33sb.d	JQ33LCSS1	JQ33LCSS1	1	6.88	242062	8.95	131310	10.76	217726	14.07	192039	16.03	188994	
13	1457	jq33a200.d	JQ33A	T4-B414-01-A	200	6.88	238007	8.95	129506	10.76	213340	14.08	193067	16.03	201758	
14	1522	jq33a20.d	JQ33A	T4-B414-01-A	20	6.88	269722	8.95	143124	10.76	234650	14.09	239002	16.05	230123	
15	1547	jq33b10.d	JQ33B	T4-B414-01-B	10	6.89	253684	8.95	137858	10.76	229584	14.08	206616	16.03	217551	
16	1612	jq33c10.d	JQ33C	T4-B414-01-C	10	6.88	251304	8.95	136383	10.76	218514	14.08	201248	16.03	207051	
17	1637	jq33d10.d	JQ33D	T4-B414-02-A	10	6.89	250830	8.95	139170	10.76	226881	14.08	206452	16.03	210860	
18	1701	jq33dms.d	JQ33DMS	T4-B414-02-A MS	10	6.88	286926	8.95	153185	10.76	242209	14.08	211508	16.03	209035	
19	1726	jq33f10.d	JQ33F	T4-B414-02-C	10	6.88	266003	8.95	142673	10.76	228052	14.08	213090	16.03	208949	
20	1751	jq33g10.d	JQ33G	T4-B414-03-A	10	6.88	267089	8.95	148727	10.76	233614	14.08	213580	16.03	210994	
21	1816	jq33h10.d	JQ33H	T4-B414-03-B	10	6.88	269385	8.95	143637	10.76	230650	14.08	209106	16.03	212426	
22	1840	jq33i.d	JQ33I	T4-B414-03-C	1	6.88	267919	8.95	144260	10.76	242100	14.08	235399	16.04	231697	
23	1905	jq33j.d	JQ33J	T4-B414-04-A	1	6.88	260269	8.95	142460	10.76	229532	14.08	222385	16.04	203749	
24	1930	jq33k.d	JQ33K	T4-B414-04-B	1	6.88	247787	8.95	134801	10.76	225260	14.08	220402	16.04	208456	
25	1955	jq33l10.d	JQ33L	T4-B414-04-C	10	6.88	244088	8.95	139139	10.76	216520	14.08	196332	16.03	190131	
26	2019	jq33m50.d	JQ33M	T4-S3-01-D	50	6.88	256942	8.95	141892	10.76	226524	14.08	204610	16.03	193008	
27	2044	jq33n100.d	JQ33N	T4-S3-01-E	100	6.89	271920	8.95	145808	10.76	236513	14.07	211864	16.03	204121	
28	2109	jq33o20.d	JQ33O	T4-S3-01-F	20	6.88	252583	8.95	137446	10.76	226835	14.08	199033	16.03	188672	
29	2133	jq33p10.d	JQ33P	T4-S3-01-G	10	6.89	273354	8.95	144693	10.76	235162	14.07	211801	16.03	200625	
30	2158	jq33q20.d	JQ33Q	T4-S3-01-H	20	6.88	258695	8.95	138477	10.76	228584	14.08	204572	16.03	200060	
31	2247	jq33m10.d	JQ33M		1	6.88	274419	8.95	156017	10.76	247958	14.08	238659	16.04	212818	
32	2312	jq33n10.d	JQ33N10		1	6.88	280766	8.95	157690	10.76	248493	14.09	253079	16.05	209925	
33	2337	jq33e.d	JQ33E	T4-B414-02-B	1	6.88	277565	8.95	157937	10.76	263844	14.08	260270	16.04	217317	

YZ 8/7/06

Maintenance

new liner, new septum

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): ~~CC 08I~~ CC0803A

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 8/7/06 Analysis: ~~VB~~ SIM PNA Analyst: SIM PNA YZ

GC Program: SIM PNA Column No: 97876 Column Type: ZB5

Instrument Tune (.U or .CT.): ~~DF 0807~~ 1216U EM Voltage: 1700

Calibration File: DF 0807 Curve Date: 08/04/06

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1409-01)(1416-02)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060807.b

	Time	Filename	LabID	ClientId	DF											
1	1024	df0807.d	DF0807		1	NO ISTDS FOUND										
2	1039	cc0807.d	CC0807		1	6.89	231039	8.95	129131	10.76	212850	14.08	190817	16.03	197592	
3	1115	jq35mb.d	JQ35MBS1	JQ35MBS1	1	6.89	196430	8.95	104230	10.77	173132	14.08	159409	16.03	172927	
4	1140	jq35sb.d	JQ35LCSS1	JQ35LCSS1	1	6.89	226245	8.95	123629	10.77	200567	14.08	186165	16.04	197062	
5	1205	jq33a400.d	JQ33A	T4-B414-01-A	400	6.89	246370	8.95	132639	10.77	226457	14.08	201812	16.03	195108	
6	1230	jq35a10.d	JQ35A	T4-S3-02-C	10	6.89	250257	8.95	140520	10.77	233920	14.08	216153	16.04	222940	
7	1255	jq35b10.d	JQ35B	T4-S3-02-D	10	6.89	252321	8.95	137813	10.77	221695	14.08	201926	16.04	221481	
8	1319	jq35c10.d	JQ35C	T4-S3-02-E	10	6.89	255309	8.95	135507	10.77	230694	14.08	204176	16.04	221520	
9	1344	jq35d10.d	JQ35D	T4-S3-02-F	10	6.89	245660	8.95	138987	10.77	217562	14.08	192685	16.04	207083	
10	1409	jq35e10.d	JQ35E	T4-S3-03-B	10	6.89	258290	8.95	143281	10.77	234449	14.08	206315	16.04	215028	
11	1434	jq35f10.d	JQ35F	T4-S3-03-C	10	6.89	265580	8.95	144721	10.77	240069	14.08	213562	16.04	228495	
12	1459	jq35g10.d	JQ35G	T4-S3-03-D	10	6.89	271540	8.95	154950	10.77	251307	14.08	219185	16.04	227150	
13	1524	jq35h10.d	JQ35H	T4-S3-05-E	10	6.89	260423	8.95	143012	10.77	234928	14.08	216038	16.04	224207	
14	1548	jq33e.d	JQ33E	T4-B414-02-B	1	6.89	18768	8.95	12739	10.77	18286	14.08	16014	16.04	16207	
15	1613	jq33dmsd.d	JQ33DMSD	T4-B414-02-A MSD	1	6.89	243802	8.95	135461	10.77	217457	14.08	201762	16.04	209436	
16	1638	jq33m10.d	JQ33M	T4-S3-01-D	10	6.89	191997	8.96	109595	10.76	181216	14.09	173999	16.05	172020	
17	1703	jq33n.d	JQ33N	T4-S3-01-E	10	6.89	232216	8.95	124202	10.77	206056	14.10	208263	16.06	203544	
18	1728	jq33q.d	JQ33Q	T4-S3-01-H	20	6.89	236820	8.95	130040	10.77	209660	14.08	191739	16.04	194767	
19	1752	jq35i.d	JQ35I	T4-S3-05-F	1	6.89	258282	8.95	144086	10.77	240271	14.08	217398	16.04	219636	
20	1817	jq35j10.d	JQ35J	T4-S3-05-G	10	6.89	236638	8.95	129610	10.77	212650	14.08	196122	16.04	197010	
21	1842	jq35k10.d	JQ35K	T4-S3-05-H	10	6.89	281122	8.95	153358	10.77	241831	14.08	213685	16.04	214240	
22	1907	jq35l.d	JQ35L	T4-S3-05-J	1	6.89	280939	8.95	148640	10.77	238770	14.08	215263	16.04	228029	
23	1931	jq35m10.d	JQ35M	T4-S3-06-A	10	6.89	282329	8.95	148056	10.77	235343	14.08	222786	16.04	218704	
24	1956	jq35n.d	JQ35N	T4-S3-06-B	1	6.89	285064	8.95	152700	10.76	251705	14.08	217001	16.04	217400	
25	2021	jq35o10.d	JQ35O	T4-S3-08-B	10	6.89	288440	8.95	153597	10.77	247720	14.08	221992	16.04	213545	
26	2046	jq35p.d	JQ35P	T4-S3-08-C	1	6.89	291334	8.95	157337	10.76	253395	14.08	230403	16.03	228911	
27	2110	jq35pms.d	JQ35PMS	T4-S3-08-C MS	1	6.88	290178	8.95	154050	10.76	255867	14.08	227439	16.03	224669	
28	2135	jq35pmsd.d	JQ35PMSD	T4-S3-08-C MSD	1	6.89	319462	8.95	166317	10.76	267717	14.08	232739	16.03	234309	

new liner, new septum YZ 8/8/06

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0807

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 08/08 /06 Analysis: ~~YB~~ SIMPAH Analyst: ~~SI~~ YZ

GC Program: SIMPAH Column No: 97876 Column Type: ZB5

Instrument Tune (.U or .CT.): D 1216 U EM Voltage: 1700

Calibration File: DF0808 Curve Date: 08/04/06

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1409-01)	(1416-02)

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060808.b

	Time	Filename	LabID	ClientId	DF											
1	0911	df0808.d	DF0808		1	NO ISTDS FOUND										
2	1132	jq33e.d	JQ33E	T4-B414-02-B	1	6.88	254624	8.95	133732	10.76	214656	14.08	202193	16.03	204528	
3	1017	jq35a20.d	JQ35A	T4-S3-02-C	20	6.88	275765	8.95	148163	10.76	236793	14.08	205605	16.03	214516	
4	1042	jq35h20.d	JQ35H	T4-S3-05-E	20	6.88	288009	8.95	152401	10.75	240720	14.07	208693	16.03	219436	
5	1157	jq35i2.d	JQ35I	T4-S3-05-F	2	6.88	287961	8.95	153297	10.76	243446	14.07	215360	16.03	228392	
6	1107	jq35j20.d	JQ35J	T4-S3-05-G	20	6.88	268640	8.95	137942	10.75	228879	14.07	198041	16.03	206426	
7	1221	jq35l2.d	JQ35L	T4-S3-05-J	2	6.88	282317	8.94	150556	10.76	232914	14.07	199547	16.02	212284	
8	1246	jq52a10.d	JQ52A	T4-S3-02-F-DUP	10	6.88	281092	8.95	147661	10.76	243797	14.08	221789	16.03	226677	
9	1311	jq52b10.d	JQ52B	T4-S3-03-C-DUP	10	6.88	294830	8.94	155476	10.76	252000	14.07	219152	16.03	235237	
10	1947	jq52c10.d	JQ52C	T4-B414-02-A-DUP	10	6.88	282374	8.94	147361	10.75	235117	14.07	202857	16.02	206865	
11	2012	jq52d10.d	JQ52D	T4-S3-08-C-DUP	10	6.88	299651	8.94	156857	10.75	247671	14.07	213809	16.02	215837	
12	1336	jq69mb.d	JQ69MBW1		1	6.88	284542	8.94	152816	10.76	234784	14.07	207329	16.02	212099	
13	1401	jq69sb.d	JQ69LCSW1		1	6.88	276952	8.95	145353	10.76	236692	14.07	202683	16.02	208283	
14	1425	jq69a.d	JQ69A		1	6.88	257472	8.95	131446	10.76	207020	14.07	188647	16.02	190390	
15	1450	jq69b.d	JQ69B		1	6.88	281293	8.95	145620	10.76	231650	14.07	202412	16.02	202645	
16	1515	jq69c.d	JQ69C		1	6.88	276189	8.94	140773	10.76	226205	14.07	195349	16.02	199890	
17	1540	jq69d.d	JQ69D		1	6.88	271336	8.95	141612	10.76	232639	14.07	203590	16.03	206311	
18	1604	jq69e.d	JQ69E		1	6.88	277840	8.95	148756	10.76	239039	14.07	217644	16.03	220686	
19	1629	jq69f.d	JQ69F		1	6.88	254738	8.95	126250	10.76	203332	14.07	179895	16.02	179998	
20	1654	jq69g.d	JQ69G		1	6.88	284206	8.95	146296	10.76	230685	14.07	206086	16.02	206191	
21	1719	jq69h.d	JQ69H		1	6.88	275153	8.95	152242	10.76	241646	14.07	207211	16.02	205413	
22	1743	jq69i.d	JQ69I		1	6.88	308916	8.95	155011	10.75	243958	14.07	206934	16.02	207374	
23	1808	jq69ims.d	JQ69IMS		1	6.88	313276	8.95	161802	10.75	251623	14.07	213219	16.03	213676	
24	1833	jq69imsd.d	JQ69IMSD		1	6.88	291837	8.95	152356	10.76	238274	14.07	201808	16.02	206888	
25	1857	jq69j.d	JQ69J		1	6.88	300017	8.94	151874	10.76	238591	14.07	207389	16.02	206162	
26	1922	jq69k.d	JQ69K		1	6.88	299232	8.94	154960	10.76	238300	14.07	206304	16.02	205913	

Mair

new liner, new septum

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC08 08

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

8/10/2006 VTS

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 8/9/2006 Analysis: SimPNA Analyst: VTS

GC Program: SimPNA Column No: 97876 Column Type: ZB-5

Instrument Tune (.U or .CT.): 1216.U EM Voltage: 1700

Calibration File: dF0809 Curve Date: 8.4.2006

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1409-01)(1416-02)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060809.b

	Time	Filename	LabID	ClientId	DF										
1	0732	df0809.d	DF0809		1	NO ISTDS FOUND									
2	0750	cc0809.d	CC0809		1	6.88	240084	8.93	117778	10.75	165702	14.06	120342	16.01	134879
3	0824	alumf481.d	ALUMINA F481		1	6.88	281958	8.94	137135	10.75	193639	14.07	170965	16.01	205528
4	0849	jq36mb.d	JQ36MBS1	JQ36MBS1	1	6.87	281861	8.94	134389	10.75	197511	14.06	141875	16.00	154607
5	0913	jq36sb.d	JQ36LCSS1	JQ36LCSS1	1	6.87	275313	8.93	133692	10.75	191452	14.06	144196	16.01	149760
6	0938	jq36a.d	JQ36A	T4-S3-07-B	10	6.87	320521	8.93	158906	10.75	249104	14.06	242827	16.01	264051
7	1003	jq36b.d	JQ36B	T4-S3-07-C	10	6.87	305810	8.93	156239	10.75	236480	14.06	215326	16.01	252490
8	1028	jq36c.d	JQ36C	T4-S3-07-D	10	6.88	286948	8.93	143552	10.75	214338	14.06	206392	16.01	235490
9	1052	jq36d.d	JQ36D	T4-S3-07-E	10	6.87	323836	8.93	165761	10.75	254306	14.06	212637	16.01	243442
10	1128	jq36d2.d	JQ36D	T4-S3-07-E	1	6.87	313898	8.94	158383	10.75	239934	14.07	205634	16.01	223426
11	1153	jq36dms.d	JQ36DMS	T4-S3-07-E MS	1	6.87	280786	8.93	137095	10.75	195375	14.06	171946	16.01	209334
12	1217	jq36dmsd.d	JQ36DMSD	T4-S3-07-E MSD	1	6.87	297558	8.94	148574	10.75	227903	14.06	212253	16.01	228736
13	1242	jq36e.d	JQ36E	T4-S3-04-A	10	6.88	276537	8.94	138889	10.75	194946	14.06	185164	16.01	219680
14	1307	jq36f.d	JQ36F	T4-S3-04-B	10	6.88	290530	8.93	142764	10.75	211489	14.06	180784	16.01	225659
15	1332	jq36g.d	JQ36G	T4-S3-04-C	10	6.87	265372	8.94	128041	10.75	189984	14.06	168146	16.00	205398
16	1357	jq36h.d	JQ36H	T4-S3-04-D	10	6.87	282758	8.93	139211	10.75	200047	14.06	181008	16.01	229029
17	1421	jq36i.d	JQ36I	T4-WB-01	10	6.88	302761	8.93	143704	10.75	208678	14.06	178534	16.01	230149
18	1446	jq36j.d	JQ36J	T4-WB-02	10	6.88	308222	8.93	149761	10.75	211021	14.06	186669	16.01	235441
19	1511	jq36k.d	JQ36K	T4-WB-03	10	6.87	305205	8.94	146460	10.75	215927	14.06	187298	16.01	235390
20	1536	jq36l.d	JQ36L	T4-WB-04	10	6.88	309830	8.94	153610	10.75	228513	14.06	203612	16.01	247075
21	1600	jq52adl.d	JQ52ADL	T4-S3-02-F-DUP	50	6.88	292387	8.93	144713	10.75	204501	14.06	187525	16.01	225550

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0809

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

VTS 8.10.2006

Semivolatile Organics
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	TPH	TOT OUT
MB-073106	71.6%	0
LCS-073106	56.4%	0
T4-S3-02-F-DUP	35.9%	0
T4-S3-03-C-DUP	29.4%	0
T4-S3-03-C-DUP DL	41.0%	0
T4-B414-02-A-DUP	41.6%	0
T4-S3-08-C-DUP	63.7%	0

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

Prep Method: SW3550B
Log Number Range: 06-13102 to 06-13114

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-08-C
MS/MSD

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted MS/MSD: 07/31/06

Date Analyzed MS: 08/08/06 20:21
MSD: 08/08/06 20:52
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: YES

Sample Amount MS: 50.8 g-dry-wt
MSD: 51.0 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 3.00
MSD: 3.00
Percent Moisture: 16.7%
pH: 6.0

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Di-n-Octyl phthalate	< 58.5	299	492	60.8%	295	490	60.2%	1.3%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: LCS-073106
LAB CONTROL

Lab Sample ID: LCS-073106
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 10:55
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

Analyte	Lab Control	Spike Added	Recovery
Dimethylphthalate	331	500	66.2%
Diethylphthalate	349	500	69.8%
Di-n-Butylphthalate	357	500	71.4%
Butylbenzylphthalate	322	500	64.4%
bis(2-Ethylhexyl)phthalate	373	500	74.6%
Di-n-Octyl phthalate	330	500	66.0%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	56.4%

Results reported in µg/kg

FORM III

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

JQ35MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR

ARI Job No: JQ35

Project: T4 EARLY ACTION

Lab File ID: JQ35MB

Date Extracted: 07/31/06

Instrument ID: NT6

Date Analyzed: 08/07/06

Matrix: SOLID

Time Analyzed: 1025

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	JQ35LCSS1	JQ35LCSS1	JQ35SB	08/07/06
02	T4-S3-02-C	JQ35A	JQ35ADL	08/07/06
03	T4-S3-02-D	JQ35B	JQ35BDL	08/07/06
04	T4-S3-02-E	JQ35C	JQ35CDL	08/07/06
05	T4-S3-02-F	JQ35D	JQ35DDL	08/07/06
06	T4-S3-03-B	JQ35E	JQ35EDL	08/07/06
07	T4-S3-03-C	JQ35F	JQ35FDL	08/07/06
08	T4-S3-03-D	JQ35G	JQ35GDL	08/07/06
09	T4-S3-05-E	JQ35H	JQ35HDL	08/07/06
10	T4-S3-05-F	JQ35I	JQ35IDL	08/07/06
11	T4-S3-05-G	JQ35J	JQ35JDL	08/07/06
12	T4-S3-05-H	JQ35K	JQ35KDL	08/07/06
13	T4-S3-05-J	JQ35L	JQ35L	08/07/06
14	T4-S3-06-A	JQ35M	JQ35M	08/07/06
15	T4-S3-06-B	JQ35N	JQ35N	08/07/06
16	T4-S3-08-B	JQ35O	JQ35ODL	08/07/06
17	T4-S3-08-C	JQ35P	JQ35PDL	08/08/06
18	T4-S3-08-C MS	JQ35PMS	JQ35PMS	08/08/06
19	T4-S3-08-C MSD	JQ35PMSD	JQ35PMD	08/08/06
20	T4-S3-02-F-DUP	JQ52A	JQ52ADL	08/08/06
21	T4-S3-03-C-DUP	JQ52B	JQ52BDL	08/08/06
22	T4-B414-02-A-DUP	JQ52C	JQ52CDL	08/09/06
23	T4-S3-08-C-DUP	JQ52D	JQ52DDL	08/09/06
24	T4-S3-03-C-DUP	JQ52B	JQ52BDL2	08/09/06
25	T4-S3-05-G	JQ35J	JQ35JDL2	08/09/06
26	T4-S3-05-H	JQ35K	JQ35KDL2	08/09/06
27				
28				
29				
30				

COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: T4 EARLY ACTION

DFTPP Injection Date: 07/05/06 DFTPP Injection Time: 1016

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	50.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.5
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	50.7
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	6.4
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 0.75% of mass 198	3.73
441	Present, but less than mass 443	11.3
442	40.0 - 110.0% of mass 198	74.5
443	15.0 - 24.0% of mass 442	14.4 (19.4)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN 25	ABN 25	0250705	07/05/06	1016
02	ABN 80	ABN 80	0800705	07/05/06	1046
03	ABN 1	ABN 1	0010705	07/05/06	1117
04	ABN 40	ABN 40	0400705	07/05/06	1147
05	ABN 5	ABN 5	0050705	07/05/06	1218
06	ABN 10	ABN 10	0100705	07/05/06	1249
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: T4 EARLY ACTION

DFTPP Injection Date: 08/07/06 DFTPP Injection Time: 0954

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	58.6	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	67.5	
70	Less than 2.0% of mass 69	0.0	(0.0)1
127	25.0 - 75.0% of mass 198	53.6	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.2	
275	10.0 - 30.0% of mass 198	28.8	
365	Greater than 0.75% of mass 198	4.02	
441	Present, but less than mass 443	10.3	
442	40.0 - 110.0% of mass 198	61.2	
443	15.0 - 24.0% of mass 442	12.1	(19.8)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0807	08/07/06	0954
02	JQ35MBS1	JQ35MBS1	JQ35MB	08/07/06	1025
03	JQ35LCSS1	JQ35LCSS1	JQ35SB	08/07/06	1055
04	T4-S3-02-C	JQ35A	JQ35ADL	08/07/06	1435
05	T4-S3-02-D	JQ35B	JQ35BDL	08/07/06	1505
06	T4-S3-02-E	JQ35C	JQ35CDL	08/07/06	1536
07	T4-S3-02-F	JQ35D	JQ35DDL	08/07/06	1606
08	T4-S3-03-B	JQ35E	JQ35EDL	08/07/06	1637
09	T4-S3-03-C	JQ35F	JQ35FDL	08/07/06	1707
10	T4-S3-03-D	JQ35G	JQ35GDL	08/07/06	1738
11	T4-S3-05-E	JQ35H	JQ35HDL	08/07/06	1808
12	T4-S3-05-F	JQ35I	JQ35IDL	08/07/06	1839
13	T4-S3-05-G	JQ35J	JQ35JDL	08/07/06	1909
14	T4-S3-05-H	JQ35K	JQ35KDL	08/07/06	1940
15	T4-S3-05-J	JQ35L	JQ35L	08/07/06	2011
16	T4-S3-06-A	JQ35M	JQ35M	08/07/06	2042
17	T4-S3-06-B	JQ35N	JQ35N	08/07/06	2112
18	T4-S3-08-B	JQ35O	JQ35ODL	08/07/06	2143
19					
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: T4 EARLY ACTION

DFTPP Injection Date: 08/08/06 DFTPP Injection Time: 1313

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	57.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	64.5
70	Less than 2.0% of mass 69	0.8 (1.2)1
127	25.0 - 75.0% of mass 198	51.8
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	8.0
275	10.0 - 30.0% of mass 198	28.9
365	Greater than 0.75% of mass 198	4.54
441	Present, but less than mass 443	9.9
442	40.0 - 110.0% of mass 198	62.5
443	15.0 - 24.0% of mass 442	12.4 (19.9)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0808	08/08/06	1313
02	T4-S3-08-C	JQ35P	JQ35PDL	08/08/06	1950
03	T4-S3-08-C MS	JQ35PMS	JQ35PMS	08/08/06	2021
04	T4-S3-08-C MSD	JQ35PMSD	JQ35PMD	08/08/06	2052
05	T4-S3-02-F-DUP	JQ52A	JQ52ADL	08/08/06	2122
06	T4-S3-03-C-DUP	JQ52B	JQ52BDL	08/08/06	2153
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08					
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: T4 EARLY ACTION

DFTPP Injection Date: 08/09/06 DFTPP Injection Time: 0922

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	54.1	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	62.7	
70	Less than 2.0% of mass 69	0.4	(0.7)1
127	25.0 - 75.0% of mass 198	49.8	
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	6.9	
275	10.0 - 30.0% of mass 198	27.6	
365	Greater than 0.75% of mass 198	4.72	
441	Present, but less than mass 443	9.9	
442	40.0 - 110.0% of mass 198	62.6	
443	15.0 - 24.0% of mass 442	12.8	(20.4)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0809	08/09/06	0922
02	T4-B414-02-A-DUP	JQ52C	JQ52CDL	08/09/06	1225
03	T4-S3-08-C-DUP	JQ52D	JQ52DDL	08/09/06	1255
04	T4-S3-03-C-DUP	JQ52B	JQ52BDL2	08/09/06	1326
05	T4-S3-05-G	JQ35J	JQ35JDL2	08/09/06	1357
06	T4-S3-05-H	JQ35K	JQ35KDL2	08/09/06	1427
07					
08					
09					
10					
11					
12					
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19					
20					
21					
22					

FORM V SV

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0807 — Date Analyzed: 08/07/06

Instrument ID: NT6 — Time Analyzed: 0954

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	318996	5.34	1113586	7.40	652908	10.18
	UPPER LIMIT	637992	5.84	2227172	7.90	1305816	10.68
	LOWER LIMIT	159498	4.84	556793	6.90	326454	9.68
	CLIENT SAMP. NO.						
01	JQ35MBS1	275186	5.33	958062	7.39	601750	10.17
02	JQ35LCSS1	295002	5.34	1049992	7.40	623908	10.18
03	T4-S3-02-C	235359	5.34	826001	7.39	508844	10.17
04	T4-S3-02-D	271832	5.34	945282	7.39	575206	10.18
05	T4-S3-02-E	266178	5.33	923237	7.39	561620	10.17
06	T4-S3-02-F	265607	5.34	918689	7.39	570291	10.18
07	T4-S3-03-B	269847	5.34	922218	7.39	578246	10.18
08	T4-S3-03-C	255609	5.34	889587	7.40	564436	10.18
09	T4-S3-03-D	273744	5.34	960436	7.40	621005	10.18
10	T4-S3-05-E	247651	5.34	888253	7.39	539856	10.17
11	T4-S3-05-F	273746	5.34	961139	7.40	589822	10.18
12	T4-S3-05-G	283610	5.34	1002038	7.40	618713	10.18
13	T4-S3-05-H	271768	5.34	967057	7.39	582763	10.18
14	T4-S3-05-J	278813	5.34	963400	7.40	597410	10.18
15	T4-S3-06-A	275134	5.34	961990	7.40	592819	10.17
16	T4-S3-06-B	263625	5.34	919585	7.39	551757	10.17
17	T4-S3-08-B	288756	5.33	977180	7.39	592069	10.17
18							
19							
20							
21							
22							

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

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

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

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0807 — Date Analyzed: 08/07/06

Instrument ID: NT6 — Time Analyzed: 0954

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	1012561	12.46	948800	16.62	760208	18.69
	UPPER LIMIT	2025122	12.96	1897600	17.12	1520416	19.19
	LOWER LIMIT	506280	11.96	474400	16.12	380104	18.19
	CLIENT SAMP. NO.						
01	JQ35MBS1	928155	12.45	794537	16.61	654960	18.69
02	JQ35LCSS1	1009544	12.45	940810	16.62	754542	18.69
03	T4-S3-02-C	849244	12.45	1153651	16.64	1213401	18.74
04	T4-S3-02-D	977476	12.46	1470785	16.65	1500984	18.76
05	T4-S3-02-E	936311	12.45	1470900	16.65	1475376	18.76
06	T4-S3-02-F	1030944	12.46	1154300	16.64	1358283	18.73
07	T4-S3-03-B	1017619	12.46	1130218	16.64	1275374	18.73
08	T4-S3-03-C	1040270	12.46	1004405	16.63	1263784	18.72
09	T4-S3-03-D	1217238	12.46	1021064	16.64	1228034	18.72
10	T4-S3-05-E	906604	12.46	1029153	16.64	1154733	18.73
11	T4-S3-05-F	984088	12.46	1373168	16.65	1471233	18.75
12	T4-S3-05-G	1017365	12.46	1520075	16.65	1550127*	18.75
13	T4-S3-05-H	969912	12.46	1573103	16.66	1638808*	18.76
14	T4-S3-05-J	962828	12.45	854688	16.62	883281	18.71
15	T4-S3-06-A	973775	12.45	1149694	16.64	1189870	18.73
16	T4-S3-06-B	858875	12.45	803173	16.62	851889	18.70
17	T4-S3-08-B	956344	12.45	1153655	16.63	1236480	18.73
18							
19							
20							
21							
22							

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

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

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

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0807 — Date Analyzed: 08/07/06

Instrument ID: NT6 — Time Analyzed: 0954

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1381183	18.01				
	UPPER LIMIT	2762366	18.51				
	LOWER LIMIT	690592	17.51				
	CLIENT SAMP. NO.						
01	JQ35MBS1	1175278	18.01				
02	JQ35LCSS1	1363655	18.01				
03	T4-S3-02-C	1343914	18.03				
04	T4-S3-02-D	1527430	18.03				
05	T4-S3-02-E	1514920	18.03				
06	T4-S3-02-F	1468699	18.02				
07	T4-S3-03-B	1456773	18.02				
08	T4-S3-03-C	1492125	18.02				
09	T4-S3-03-D	1478107	18.02				
10	T4-S3-05-E	1316502	18.02				
11	T4-S3-05-F	1555936	18.03				
12	T4-S3-05-G	1688708	18.03				
13	T4-S3-05-H	1729755	18.03				
14	T4-S3-05-J	1260069	18.01				
15	T4-S3-06-A	1381176	18.02				
16	T4-S3-06-B	1184095	18.01				
17	T4-S3-08-B	1403845	18.02				
18							
19							
20							
21							
22							

IS7 = Di-n-octylphthalate-d4

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

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

FORM VIII SV-3

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0808 — Date Analyzed: 08/08/06

Instrument ID: NT6 — Time Analyzed: 1313

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	284616	5.18	977404	7.25	544393	10.02
	UPPER LIMIT	569232	5.68	1954808	7.75	1088786	10.52
	LOWER LIMIT	142308	4.68	488702	6.75	272196	9.52
	CLIENT SAMP. NO.						
01	T4-S3-08-C	261154	5.18	885007	7.24	503719	10.02
02	T4-S3-08-C M	271231	5.18	936915	7.24	544822	10.02
03	T4-S3-08-C M	281521	5.18	950259	7.24	548682	10.02
04	T4-S3-02-F-D	269854	5.18	911964	7.24	568465	10.02
05	T4-S3-03-C-D	264846	5.18	905100	7.24	541269	10.03
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0808 — Date Analyzed: 08/08/06

Instrument ID: NT6 — Time Analyzed: 1313

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	824403	12.29	813838	16.45	837816	18.51
	UPPER LIMIT	1648806	12.79	1627676	16.95	1675632	19.01
	LOWER LIMIT	412202	11.79	406919	15.95	418908	18.01
	CLIENT SAMP. NO.						
01	T4-S3-08-C	788702	12.29	875351	16.44	987151	18.51
02	T4-S3-08-C M	828649	12.29	926797	16.44	1015346	18.51
03	T4-S3-08-C M	840039	12.29	957256	16.44	1025007	18.51
04	T4-S3-02-F-D	1098818	12.30	1585341	16.47	1668294	18.55
05	T4-S3-03-C-D	950198	12.30	1780984*	16.45	1437237	18.53
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

Cont. Calib. ID: CC0808 — Date Analyzed: 08/08/06

Instrument ID: NT6 — Time Analyzed: 1313

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1238353	17.85				
	UPPER LIMIT	2476706	18.35				
	LOWER LIMIT	619176	17.35				
	CLIENT SAMP. NO.						
01	T4-S3-08-C	1346798	17.84				
02	T4-S3-08-C M	1438826	17.85				
03	T4-S3-08-C M	1454127	17.84				
04	T4-S3-02-F-D	2134475	17.87				
05	T4-S3-03-C-D	1912241	17.86				
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IS7 = Di-n-octylphthalate-d4

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

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

FORM VIII SV-3

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

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

Instrument ID: NT6 — Time Analyzed: 0922

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	324892	5.10	1118078	7.18	626364	9.95
	UPPER LIMIT	649784	5.60	2236156	7.68	1252728	10.45
	LOWER LIMIT	162446	4.60	559039	6.68	313182	9.45
	CLIENT SAMP. NO.						
01	T4-B414-02-A	328600	5.10	1121955	7.17	660913	9.95
02	T4-S3-08-C-D	317536	5.09	1087876	7.17	644339	9.95
03	T4-S3-03-C-D	290792	5.09	999285	7.17	596369	9.95
04	T4-S3-05-G	292461	5.09	1011267	7.17	604786	9.95
05	T4-S3-05-H	315959	5.09	1091310	7.17	651453	9.95
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

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

Instrument ID: NT6 — Time Analyzed: 0922

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	965932	12.22	826790	16.36	721459	18.42
	UPPER LIMIT	1931864	12.72	1653580	16.86	1442918	18.92
	LOWER LIMIT	482966	11.72	413395	15.86	360730	17.92
	CLIENT SAMP. NO.						
01	T4-B414-02-A	948685	12.21	864219	16.36	1061784	18.43
02	T4-S3-08-C-D	981426	12.21	820983	16.36	890507	18.42
03	T4-S3-03-C-D	947189	12.22	1063388	16.37	1115911	18.43
04	T4-S3-05-G	922058	12.21	798013	16.36	907745	18.43
05	T4-S3-05-H	991469	12.21	839550	16.36	980696	18.43
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: JQ35 — Project: T4 EARLY ACTION

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

Instrument ID: NT6 — Time Analyzed: 0922

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1180779	17.78				
	UPPER LIMIT	2361558	18.28				
	LOWER LIMIT	590390	17.28				
	CLIENT SAMP. NO.						
01	T4-B414-02-A	1353174	17.78				
02	T4-S3-08-C-D	1223600	17.77				
03	T4-S3-03-C-D	1381975	17.78				
04	T4-S3-05-G	1170038	17.78				
05	T4-S3-05-H	1219579	17.77				
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IS7 = Di-n-octylphthalate-d4

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

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

FORM VIII SV-3

Semivolatile Organics
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

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

Lab Sample ID: JQ52A
LIMS ID: 06-13102
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/08/06 21:22
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 45.9%
pH: 6.6

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	60	< 60 U
84-66-2	Diethylphthalate	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**60**	**140 B**
117-84-0	Di-n-Octyl phthalate	60	< 60 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	35.9%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060808.b/jq52adl.d
Lab Smp Id: JQ52A Client Smp ID: T4-S3-02-F-DUP
Inj Date : 08-AUG-2006 21:22
Operator : LJR Inst ID: nt6.i
Smp Info : JQ52A,3
Misc Info : 06-13102
Comment : 1ul Injection
Method : /chem1/nt6.i/20060808.b/SW846.m
Meth Date : 09-Aug-2006 13:41 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 16
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 8/10/06

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	93.10000	Weight of sample extracted (g)
M	45.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	2.989	2.956	(0.577)	93884	4.71491	280.8
$ 2 Phenol-d5	99	4.971	4.965	(0.960)	137933	5.71684	340.5(M)
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	4.902	4.896	(0.946)	111348	5.44271	324.2(M)
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	5.179	5.179	(1.000)	269854	20.0000	(M)
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	5.484	5.478	(1.059)	43528	3.30060	196.6(M)
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.162	6.167	(0.851)	104303	4.22486	251.6
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	7.241	7.246	(1.000)	911964	20.0000	
	28 Naphthalene	128	7.273	7.278	(1.004)	80640	1.45454	86.64
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	8.390	8.389	(1.159)	21885	0.72986 LOL	43.47(M)
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.063	9.068	(0.904)	153110	3.60721	214.9
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	10.025	10.024	(1.000)	568465	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	10.073	10.072	(1.005)	234969	6.43689	383.4
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	10.329	10.329	(1.030)	63903	1.27236	75.79
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	10.869	10.863	(1.084)	128746	3.16007	188.2(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.291	11.290	(1.126)	37845	6.92339	412.4
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.300	12.294	(1.000)	1098818	20.0000	
	60 Phenanthrene	178	12.338	12.327	(1.003)	1955784	26.7368	1593
	61 Anthracene	178	12.402	12.396	(1.008)	357241	4.86467	289.8
	62 Carbazole	167	12.738	12.733	(1.036)	243617	4.12102	245.5
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	14.213	14.180	(1.155)	5203536	72.1513	4298
65 Pyrene	202	14.528	14.501	(0.882)	5014646	37.5517	2237
$ 66 Terphenyl-d14	244	14.939	14.934	(0.907)	250632	2.98534	177.8
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	16.451	16.424	(0.999)	4132621	34.5205	2056
* 69 Chrysene-d12	240	16.467	16.445	(1.000)	1585341	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	16.510	16.483	(1.003)	4498383	37.8128	2252
72 bis(2-Ethylhexyl)phthalate	149	16.943	16.931	(0.948)	125984	2.33764 R	139.2
* 134 Di-n-octylphthalate-d4	153	17.867	17.850	(1.000)	2134475	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	18.070	18.021	(0.974)	5795779	52.9163	3152(M)
75 Benzo(k)fluoranthene	252	18.070	18.048	(0.974)	4777713	42.1643	2513(M)
76 Benzo(a)pyrene	252	18.481	18.427	(0.996)	5744122	54.4886	3245
* 77 Perylene-d12	264	18.551	18.507	(1.000)	1668294	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	19.875	19.827	(1.071)	3876640	30.2277	1800
79 Dibenzo(a,h)anthracene	278	19.908	19.875	(1.073)	1391026	11.0419	657.7
80 Benzo(g,h,i)perylene	276	20.153	20.099	(1.086)	3386828	25.2199	1502
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	11.066	11.194	(1.104)	36831	0.66219	39.44

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq52adl.d
Lab Smp Id: JQ52A
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-13102

Calibration Date: 08-AUG-2006
Calibration Time: 13:13
Client Smp ID: T4-S3-02-F-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	284616	142308	569232	269854	-5.19
27 Naphthalene-d8	977404	488702	1954808	911964	-6.70
42 Acenaphthene-d10	544393	272196	1088786	568465	4.42
59 Phenanthrene-d10	824403	412202	1648806	1098818	33.29
69 Chrysene-d12	813838	406919	1627676	1585341	94.80
134 Di-n-octylphthala	1238353	619176	2476706	2134475	72.36
77 Perylene-d12	837816	418908	1675632	1668294	99.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.18	4.68	5.68	5.18	0.01
27 Naphthalene-d8	7.25	6.75	7.75	7.24	-0.07
42 Acenaphthene-d10	10.02	9.52	10.52	10.02	0.01
59 Phenanthrene-d10	12.29	11.79	12.79	12.30	0.05
69 Chrysene-d12	16.45	15.95	16.95	16.47	0.13
134 Di-n-octylphthala	17.85	17.35	18.35	17.87	0.09
77 Perylene-d12	18.51	18.01	19.01	18.55	0.23

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

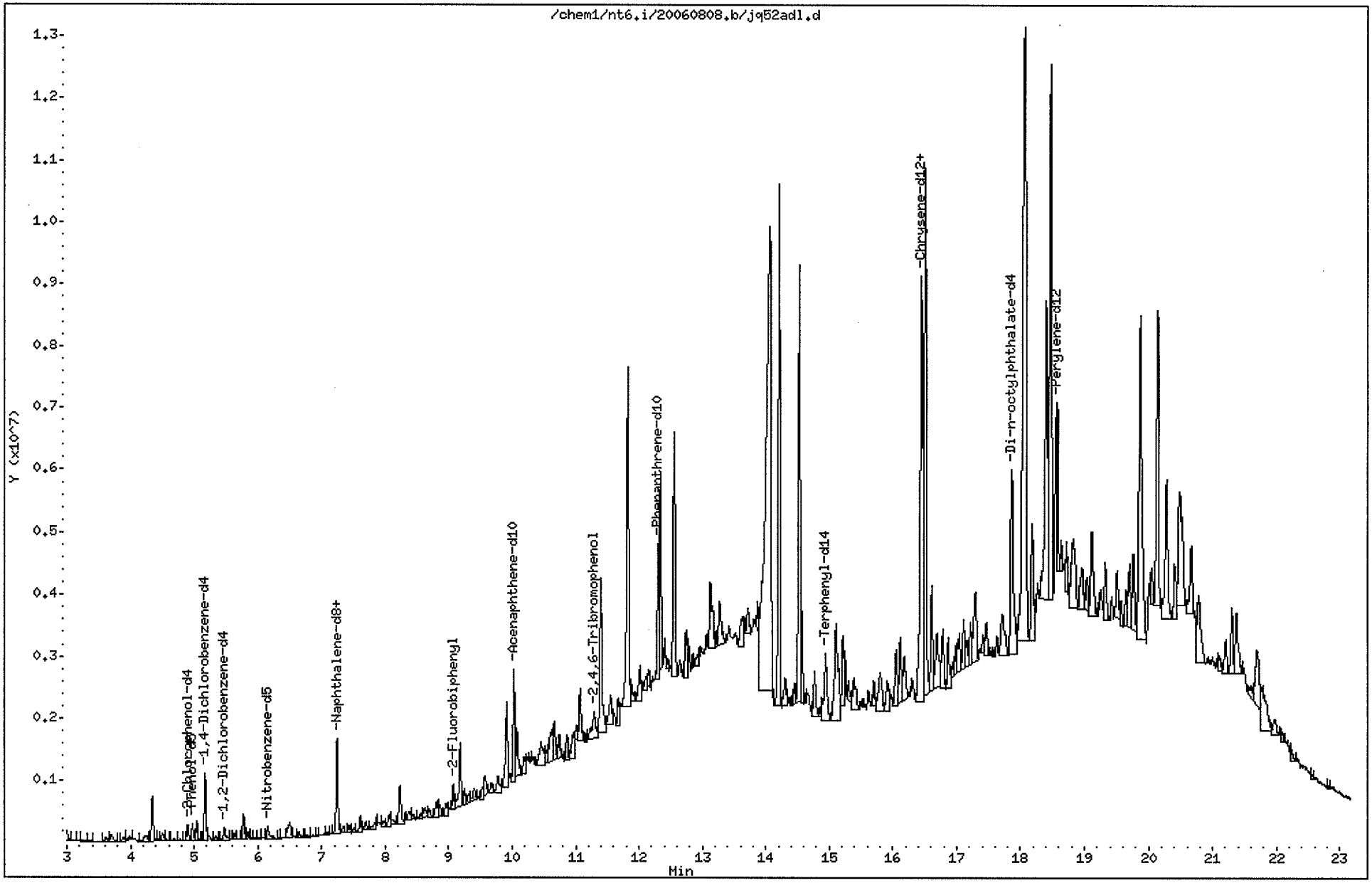
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52A
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-13102

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-02-F-DUP
Operator: LJR
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	744.5	280.8	37.72	22-91
$ 2 Phenol-d5	744.5	340.5	45.73	26-99
$ 5 2-Chlorophenol-d4	744.5	324.2	43.54	29-96
$ 10 1,2-Dichlorobenzen	496.4	196.6	39.61	24-87
$ 18 Nitrobenzene-d5	496.4	251.6	50.70	27-101
$ 36 2-Fluorobiphenyl	496.4	214.9	43.29	30-100
$ 55 2,4,6-Tribromophen	744.5	412.4	55.39	20-114
$ 66 Terphenyl-d14	496.4	177.8	35.82	12-120

Data File: /chem1/nt6.i/20060808.b/jq52ad1.d
Date : 08-AUG-2006 21:22
Client ID: T4-S3-02-F-DUP
Sample Info: JQ52A,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



0355

Data File: /chem1/nt6.i/20060808.b/jq52ad1.d

Date : 08-AUG-2006 21:22

Client ID: T4-S3-02-F-DUP

Instrument: nt6.i

Sample Info: JQ52A,3

Volume Injected (uL): 1.0

Operator: LJR

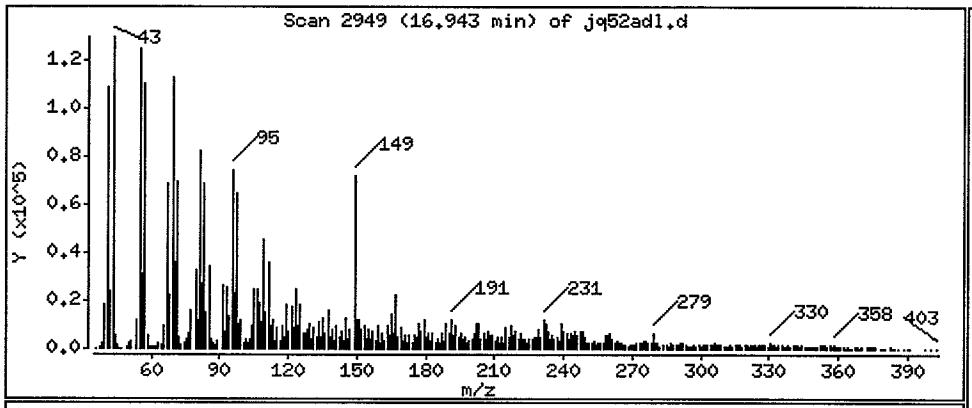
Column phase: ZB-5

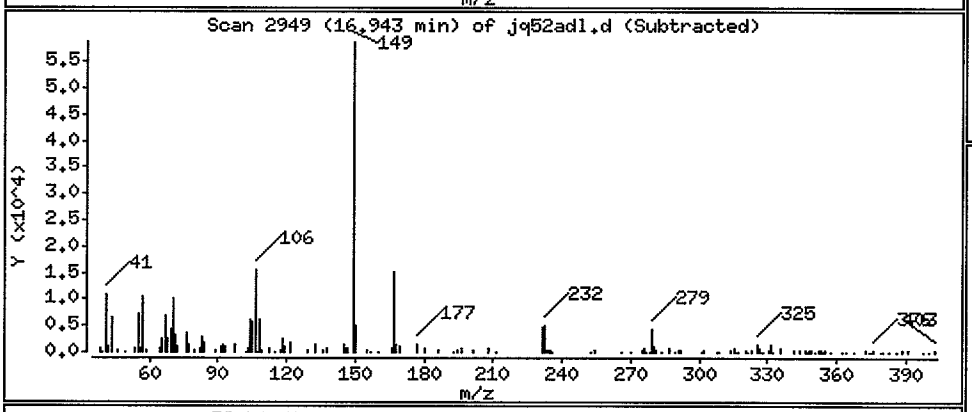
Column diameter: 0.32

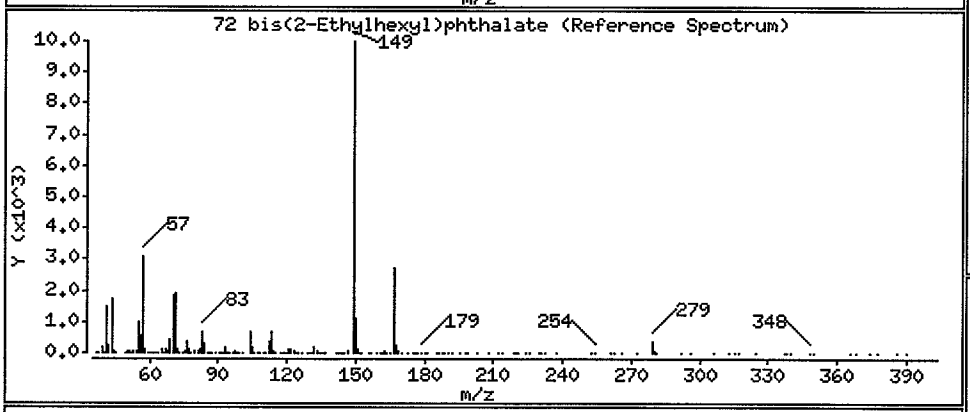
72 bis(2-Ethylhexyl)phthalate

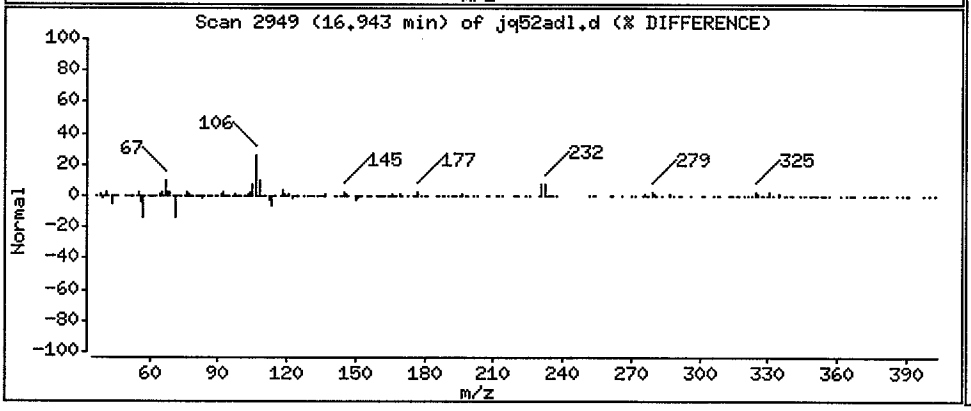
Concentration: 139.2 ug/kg

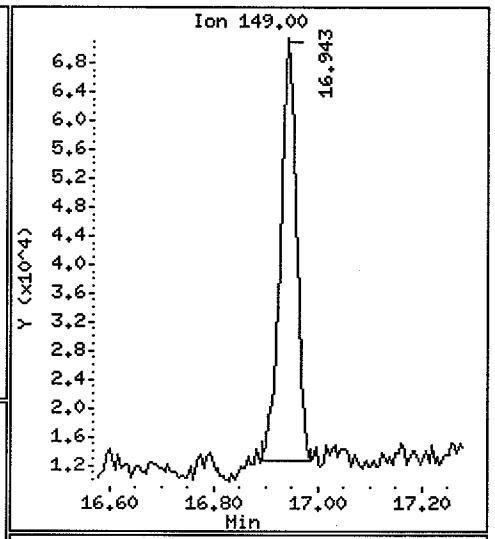
B

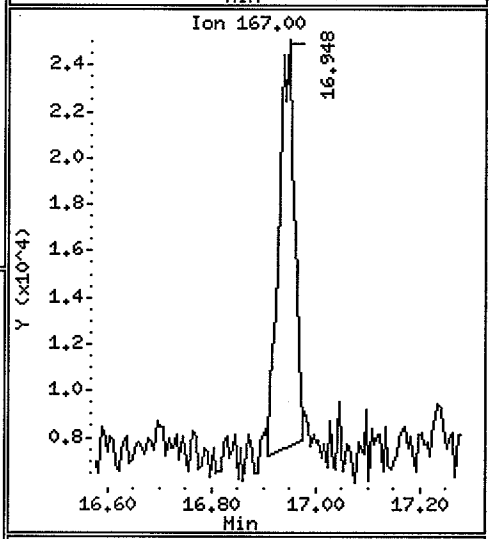


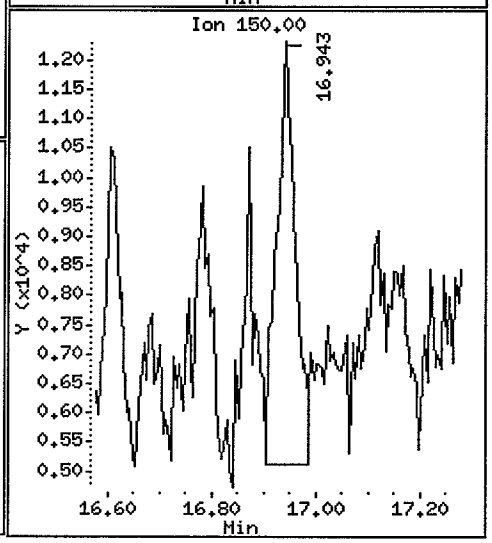












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-S3-03-C-DUP
SAMPLE

Lab Sample ID: JQ52B
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/08/06 21:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 41.8%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	60	< 60 U
84-66-2	Diethylphthalate	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**60**	**140 B**
117-84-0	Di-n-Octyl phthalate	60	< 60 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	29.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060808.b/jq52bdl.d
Lab Smp Id: JQ52B Client Smp ID: T4-S3-03-C-DUP
Inj Date : 08-AUG-2006 21:53
Operator : LJR Inst ID: nt6.i
Smp Info : JQ52B,3
Misc Info : 06-13103
Comment : 1ul Injection
Method : /chem1/nt6.i/20060808.b/SW846.m
Meth Date : 09-Aug-2006 13:41 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 17
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 8/10/06

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	86.70000	Weight of sample extracted (g)
M	41.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	2.970	2.956	(0.574)	101022	5.16921	307.3
$ 2 Phenol-d5	99	4.973	4.965	(0.961)	130334	5.50404	327.2(M)
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	4.898	4.896	(0.946)	106450	5.30169	315.2(M)
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	5.176	5.179	(1.000)	264846	20.0000	(M)
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	5.475	5.478	(1.058)	41273	3.18879	189.6(M)
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.159	6.167	(0.850)	98501	4.02010	239.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	7.244	7.246	(1.000)	905100	20.0000	
	28 Naphthalene	128	7.270	7.278	(1.004)	35481	0.64484 LOL	38.34(M)
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.065	9.068	(0.904)	141775	3.50799	208.6
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	10.027	10.024	(1.000)	541269	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	10.070	10.072	(1.004)	49585	1.42661	84.82
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	10.866	10.863	(1.084)	39518	1.01870	60.57(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.288	11.290	(1.126)	33626	6.46065	384.1
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.297	12.294	(1.000)	950198	20.0000	
	60 Phenanthrene	178	12.329	12.327	(1.003)	374894	5.92664	352.4(M)
	61 Anthracene	178	12.393	12.396	(1.008)	59662	0.93951 LOL	55.86(M)
	62 Carbazole	167	12.735	12.733	(1.036)	31197	0.61027 ↓	36.28(M)
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	14.199	14.180	(1.155)	1232341	19.7601	1175
65 Pyrene	202	14.514	14.501	(0.882)	1110672	7.40351	440.2
$ 66 Terphenyl-d14	244	14.942	14.934	(0.908)	231224	2.45162	145.8
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	16.432	16.424	(0.999)	744752	5.53766	329.2
* 69 Chrysene-d12	240	16.453	16.445	(1.000)	1780984	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	16.491	16.483	(1.002)	712395	5.33048	316.9
72 bis(2-Ethylhexyl)phthalate	149	16.940	16.931	(0.949)	110550	2.28965 B	136.1(M)
* 134 Di-n-octylphthalate-d4	153	17.858	17.850	(1.000)	1912241	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	18.035	18.021	(0.973)	582172	6.16982	366.8(M)
75 Benzo(k)fluoranthene	252	18.035	18.048	(0.973)	859612	8.81003	523.8(M)
76 Benzo(a)pyrene	252	18.446	18.427	(0.995)	727904	8.01495	476.5
* 77 Perylene-d12	264	18.532	18.507	(1.000)	1437237	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	19.840	19.827	(1.071)	526131	4.76199	283.1
79 Dibenzo(a,h)anthracene	278	19.888	19.875	(1.073)	63374	0.58393 LOL	34.72(M)
80 Benzo(g,h,i)perylene	276	20.113	20.099	(1.085)	541251	4.67835	278.1
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	4.685	4.751	(0.905)	3806122	~~109.255~~	~~6496~~ RT
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq52bdl.d
Lab Smp Id: JQ52B
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-13103

Calibration Date: 08-AUG-2006
Calibration Time: 13:13
Client Smp ID: T4-S3-03-C-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	284616	142308	569232	264846	-6.95
27 Naphthalene-d8	977404	488702	1954808	905100	-7.40
42 Acenaphthene-d10	544393	272196	1088786	541269	-0.57
59 Phenanthrene-d10	824403	412202	1648806	950198	15.26
69 Chrysene-d12	813838	406919	1627676	1780984	118.84 <-
134 Di-n-octylphthala	1238353	619176	2476706	1912241	54.42
77 Perylene-d12	837816	418908	1675632	1437237	71.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.18	4.68	5.68	5.18	-0.05
27 Naphthalene-d8	7.25	6.75	7.75	7.24	-0.03
42 Acenaphthene-d10	10.02	9.52	10.52	10.03	0.03
59 Phenanthrene-d10	12.29	11.79	12.79	12.30	0.02
69 Chrysene-d12	16.45	15.95	16.95	16.45	0.05
134 Di-n-octylphthala	17.85	17.35	18.35	17.86	0.05
77 Perylene-d12	18.51	18.01	19.01	18.53	0.13

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

Analytical Resources, Inc.

RECOVERY REPORT

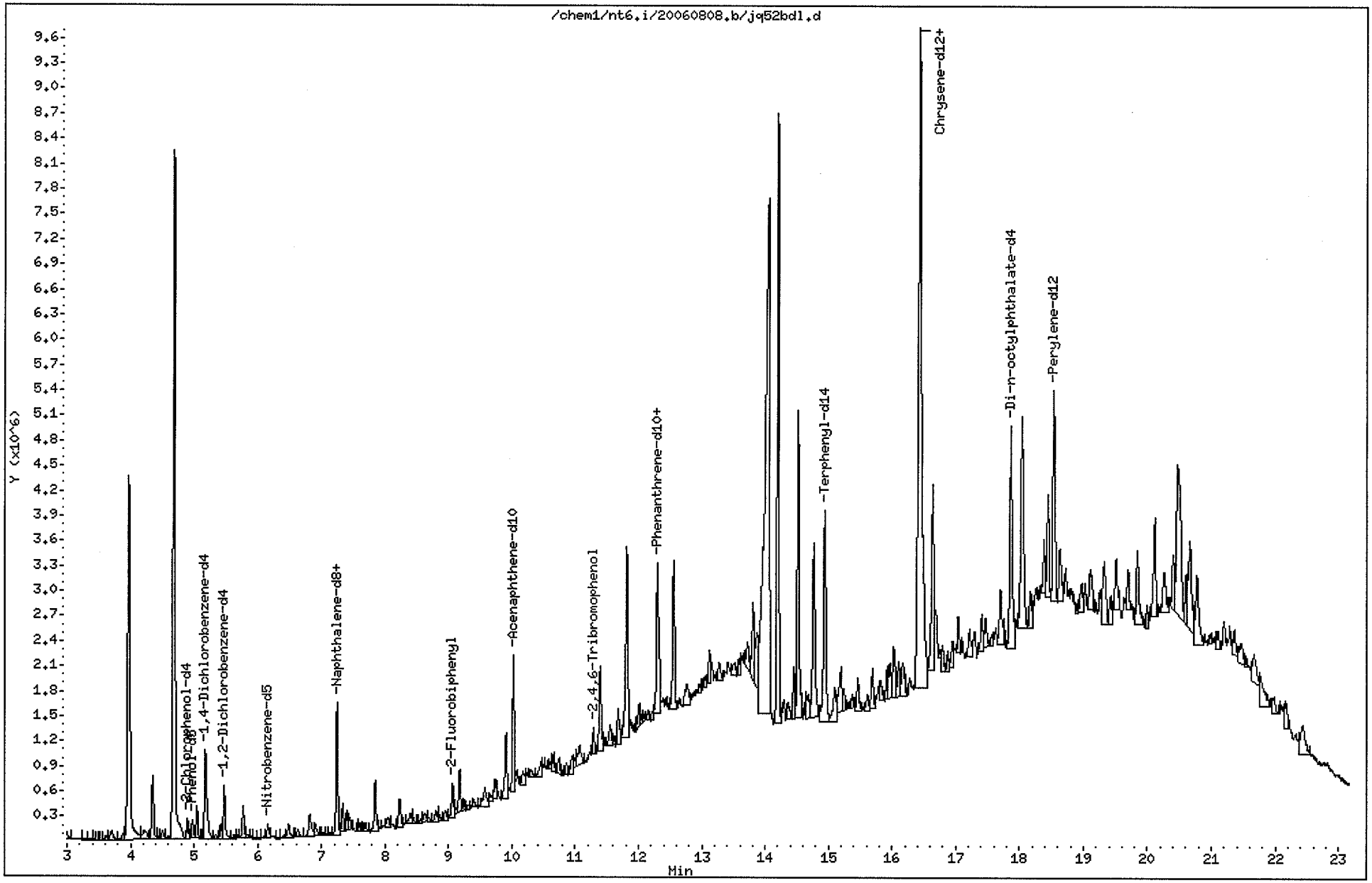
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52B
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-13103

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-03-C-DUP
Operator: LJR
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	743.2	307.3	41.35	22-91
$ 2 Phenol-d5	743.2	327.2	44.03	26-99
$ 5 2-Chlorophenol-d4	743.2	315.2	42.41	29-96
$ 10 1,2-Dichlorobenzen	495.4	189.6	38.27	24-87
$ 18 Nitrobenzene-d5	495.4	239.0	48.24	27-101
$ 36 2-Fluorobiphenyl	495.4	208.6	42.10	30-100
$ 55 2,4,6-Tribromophen	743.2	384.1	51.69	20-114
$ 66 Terphenyl-d14	495.4	145.8	29.42	12-120

Data File: /chem1/nt6.i/20060808.b/jq52bd1.d
Date : 08-AUG-2006 21:53
Client ID: T4-S3-03-C-DUP
Sample Info: JQ52B,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



0363

Data File: /chem1/nt6.i/20060808.b/jq52bdl.d

Date : 08-AUG-2006 21:53

Client ID: T4-S3-03-C-DUP

Instrument: nt6.i

Sample Info: JQ52B,3

Volume Injected (uL): 1.0

Operator: LJR

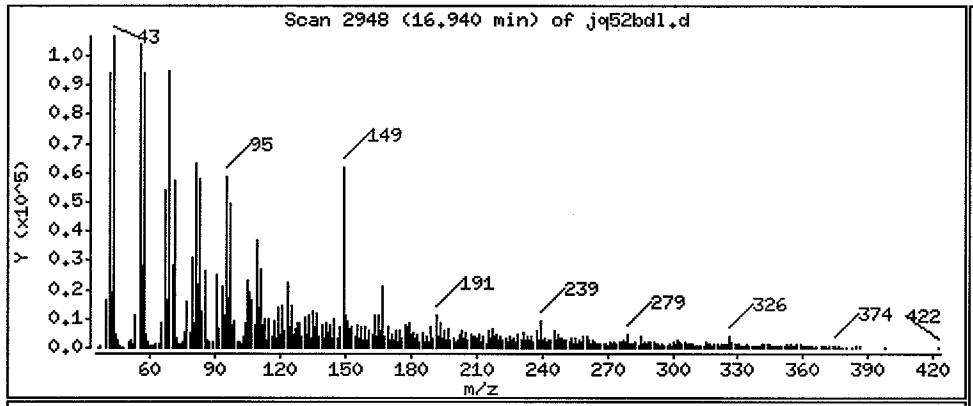
Column phase: ZB-5

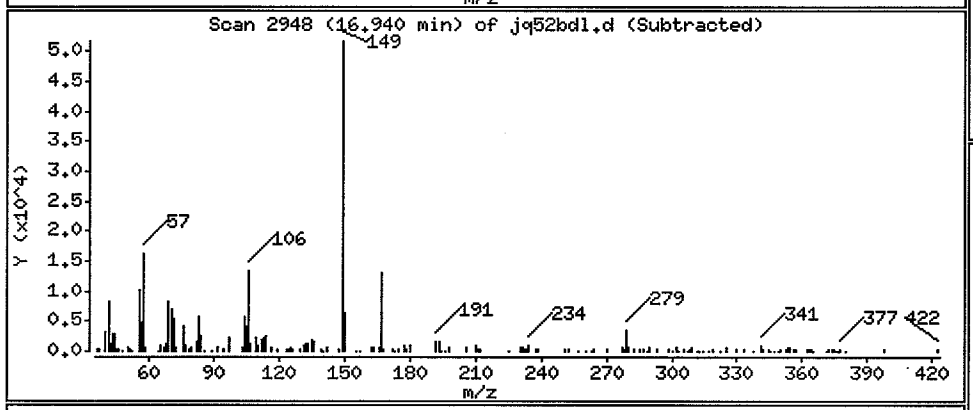
Column diameter: 0.32

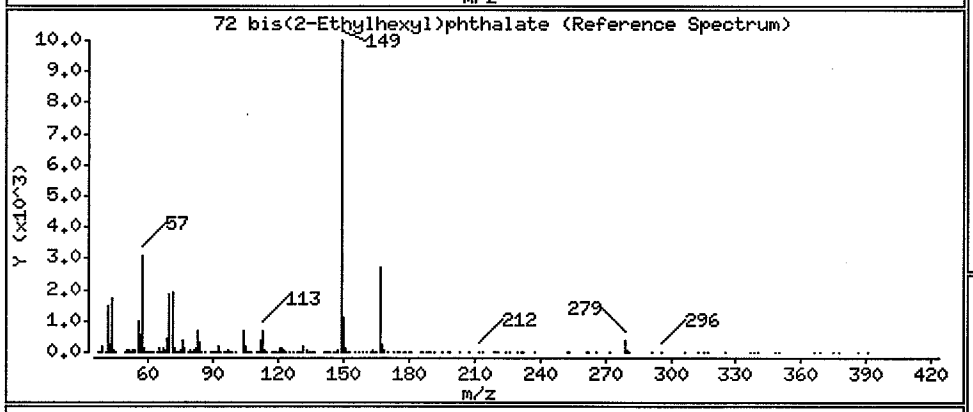
B

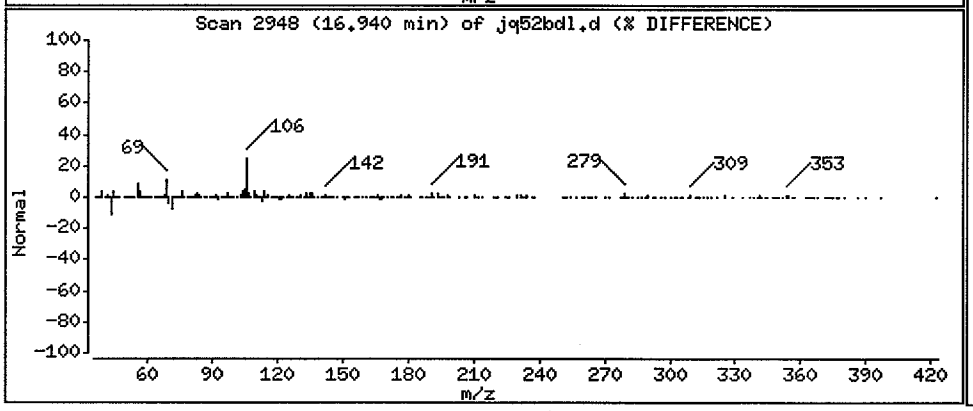
72 bis(2-Ethylhexyl)phthalate

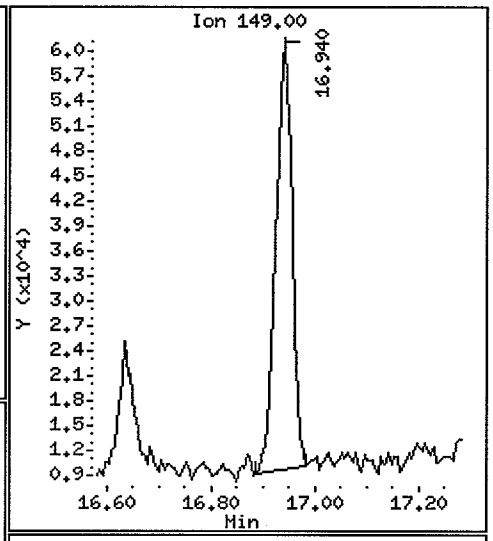
Concentration: 136.1 ug/kg

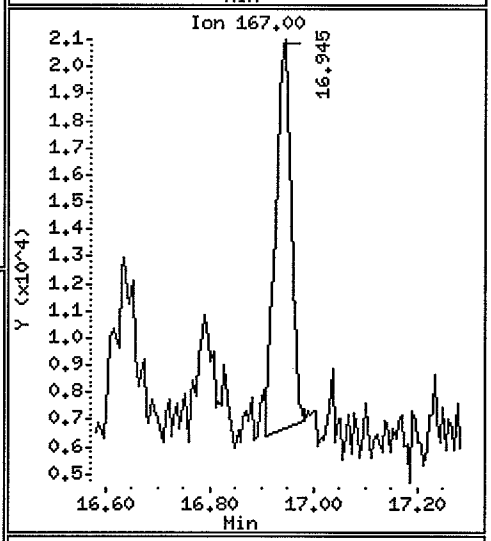


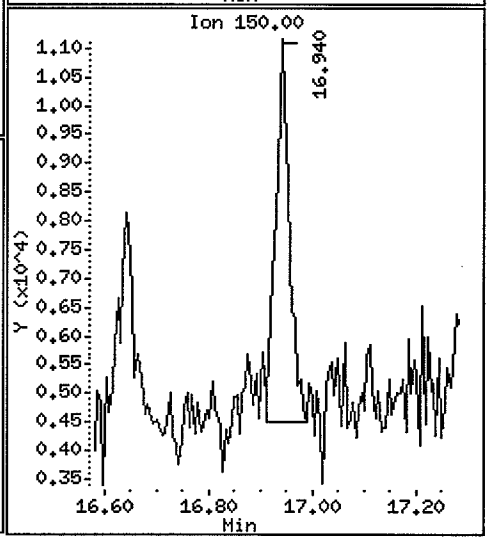






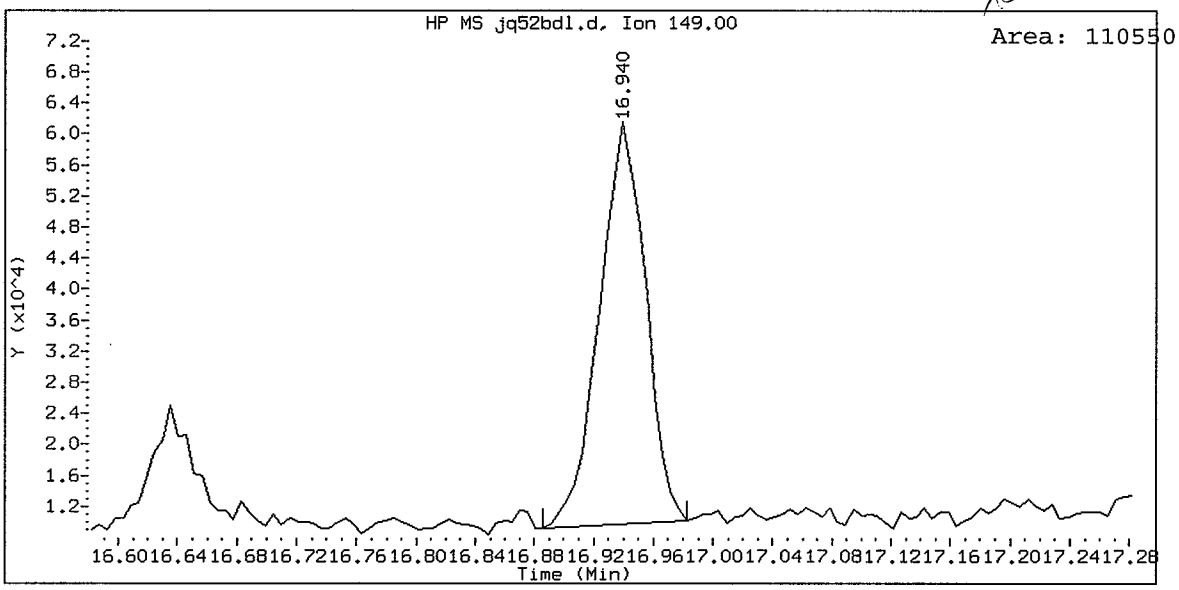


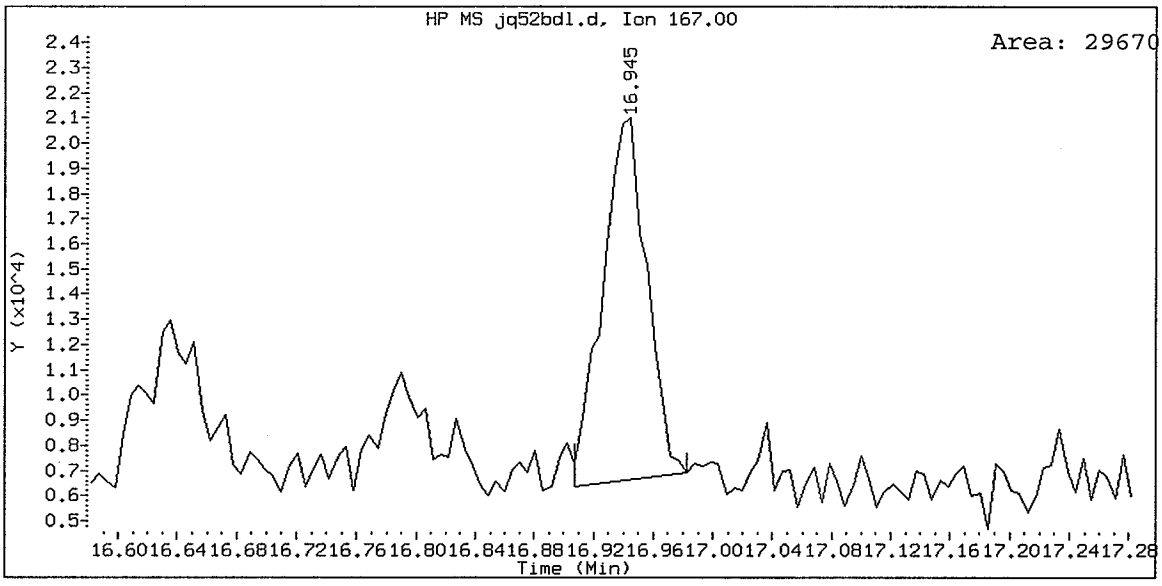


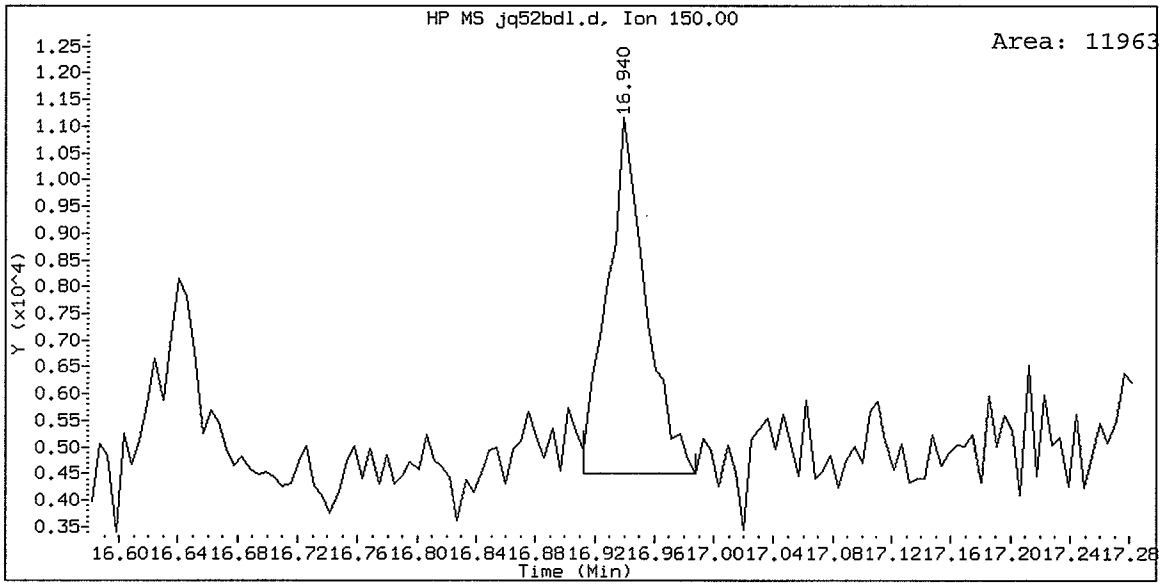


JQ52B, /chem1/nt6.i/20060808.b/jq52bdl.d
bis(2-Ethylhexyl)phthalate Amount: 2.29

B







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-S3-03-C-DUP
DILUTION

Lab Sample ID: JQ52B
LIMS ID: 06-13103
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 13:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 41.8%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	99	< 99 U
84-66-2	Diethylphthalate	99	< 99 U
84-74-2	Di-n-Butylphthalate	99	< 99 U
85-68-7	Butylbenzylphthalate	99	< 99 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**99**	**140 B**
117-84-0	Di-n-Octyl phthalate	99	< 99 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	41.0%

FORM I

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060809.b/jq52bdl2.d
Lab Smp Id: JQ52B Client Smp ID: T4-S3-03-C-DUP
Inj Date : 09-AUG-2006 13:26
Operator : LJR Inst ID: nt6.i
Smp Info : JQ52B,5
Misc Info : 06-13103
Comment : 1ul Injection
Method : /chem1/nt6.i/20060809.b/SW846.m
Meth Date : 10-Aug-2006 08:35 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 6
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 8/10/06

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

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	86.70000	Weight of sample extracted (g)
M	41.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	2.856	2.823	(0.561)	71748	3.34371	331.3(M)
$ 2 Phenol-d5	99	4.896	4.890	(0.961)	88647	3.40956	337.9(M)
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	4.816	4.810	(0.945)	71370	3.23739	320.8(M)
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	5.094	5.099	(1.000)	290792	20.0000	(M)
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	5.404	5.398	(1.061)	28787	2.02566	200.7(M)
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.088	6.092	(0.849)	64975	2.40187	238.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	7.172	7.177	(1.000)	999285	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	8.994	8.999	(0.904)	97777	2.19580	217.6
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	9.950	9.955	(1.000)	596369	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	9.998	9.998	(1.005)	33506	0.87494 LOC	86.70(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	10.789	10.788	(1.084)	29047	0.67960 LOC	67.34(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.211	11.210	(1.127)	21138	3.68606	365.3
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.215	12.220	(1.000)	947189	20.0000	
	60 Phenanthrene	178	12.247	12.252	(1.003)	238830	3.78762	375.3(M)
	61 Anthracene	178	12.317	12.321	(1.008)	34154	0.53954 LOC	53.46(M)
	62 Carbazole	167	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	14.106	14.100	(1.155)	590783	9.50304	941.7
65 Pyrene	202	14.421	14.421	(0.881)	538499	6.01181	595.7
$ 66 Terphenyl-d14	244	14.860	14.859	(0.908)	115510	2.05120	203.3
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	16.339	16.344	(0.998)	295980	3.68592	365.2
* 69 Chrysene-d12	240	16.366	16.360	(1.000)	1063388	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	16.398	16.397	(1.002)	314263	3.93828	390.2
72 bis(2-Ethylhexyl)phthalate	149	16.863	16.862	(0.949)	49658	1.42312 B	141.0(M)
* 134 Di-n-octylphthalate-d4	153	17.776	17.776	(1.000)	1381975	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	17.942	17.936	(0.973)	291355	3.97688	394.1(M)
75 Benzo(k)fluoranthene	252	17.942	17.963	(0.973)	347589	4.58817	454.6(M)
76 Benzo(a)pyrene	252	18.348	18.342	(0.995)	349626	4.95826	491.3
* 77 Perylene-d12	264	18.433	18.422	(1.000)	1115911	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	19.737	19.736	(1.071)	279008	3.25245	322.3
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	20.009	20.014	(1.085)	305491	3.40088	337.0(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq52bdl2.d
Lab Smp Id: JQ52B
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060809.b/SW846.m
Misc Info: 06-13103

Calibration Date: 09-AUG-2006
Calibration Time: 09:22
Client Smp ID: T4-S3-03-C-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	324892	162446	649784	290792	-10.50
27 Naphthalene-d8	1118078	559039	2236156	999285	-10.62
42 Acenaphthene-d10	626364	313182	1252728	596369	-4.79
59 Phenanthrene-d10	965932	482966	1931864	947189	-1.94
69 Chrysene-d12	826790	413395	1653580	1063388	28.62
134 Di-n-octylphthala	1180779	590390	2361558	1381975	17.04
77 Perylene-d12	721459	360730	1442918	1115911	54.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.10	4.60	5.60	5.09	-0.09
27 Naphthalene-d8	7.18	6.68	7.68	7.17	-0.07
42 Acenaphthene-d10	9.95	9.45	10.45	9.95	-0.05
59 Phenanthrene-d10	12.22	11.72	12.72	12.22	-0.04
69 Chrysene-d12	16.36	15.86	16.86	16.37	0.04
134 Di-n-octylphthala	17.78	17.28	18.28	17.78	0.00
77 Perylene-d12	18.42	17.92	18.92	18.43	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

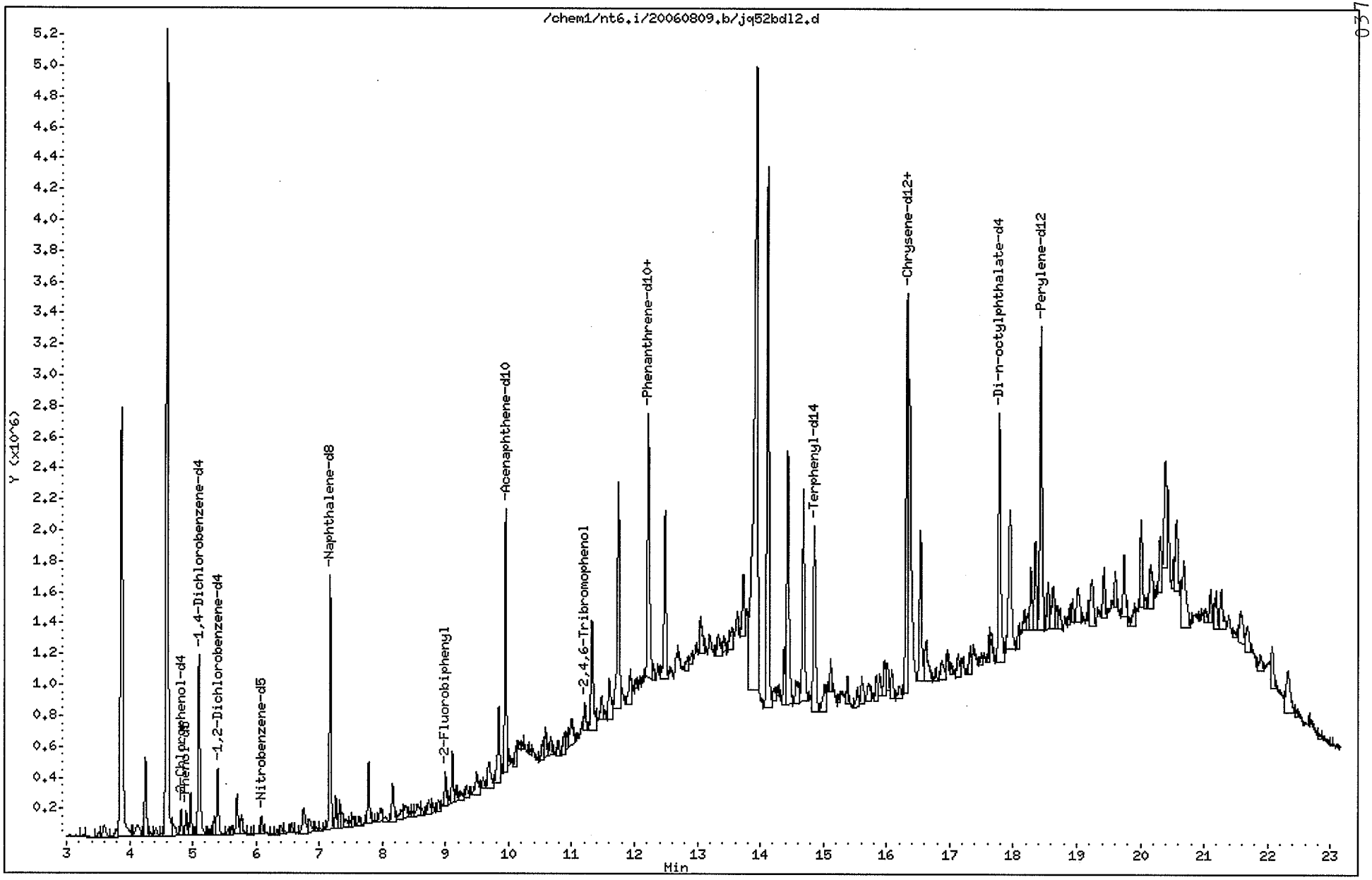
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52B
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060809.b/SW846.m
Misc Info: 06-13103

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-03-C-DUP
Operator: LJR
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	743.2	331.3	44.58	22-91
$ 2 Phenol-d5	743.2	337.9	45.46	26-99
$ 5 2-Chlorophenol-d4	743.2	320.8	43.17	29-96
$ 10 1,2-Dichlorobenzen	495.4	200.7	40.51	24-87
$ 18 Nitrobenzene-d5	495.4	238.0	48.04	27-101
$ 36 2-Fluorobiphenyl	495.4	217.6	43.92	30-100
$ 55 2,4,6-Tribromophen	743.2	365.3	49.15	20-114
$ 66 Terphenyl-d14	495.4	203.3	41.02	12-120

Data File: /chem1/nt6.i/20060809.b/jq52bd12.d
Date : 09-AUG-2006 13:26
Client ID: T4-S3-03-C-DUP
Sample Info: JQ52B,5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



0372

Data File: /chem1/nt6.i/20060809.b/jq52bdl2.d

Date : 09-AUG-2006 13:26

Client ID: T4-S3-03-C-DUP

Instrument: nt6.i

Sample Info: JQ52B,5

Volume Injected (uL): 1.0

Operator: LJR

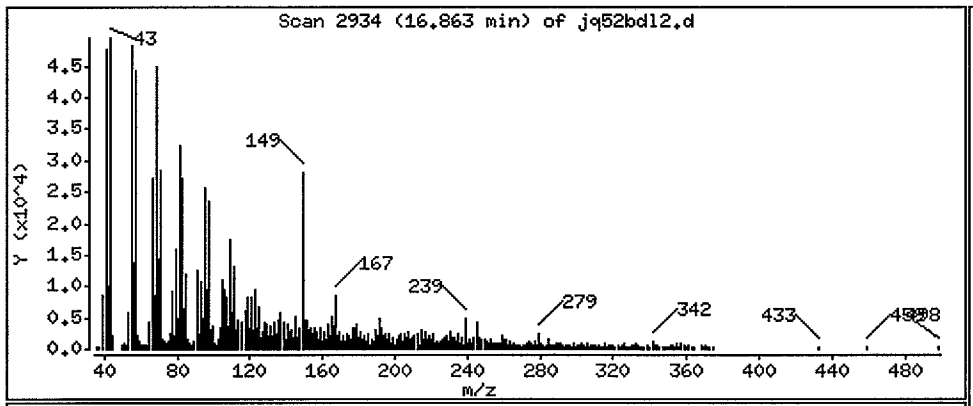
Column phase: ZB-5

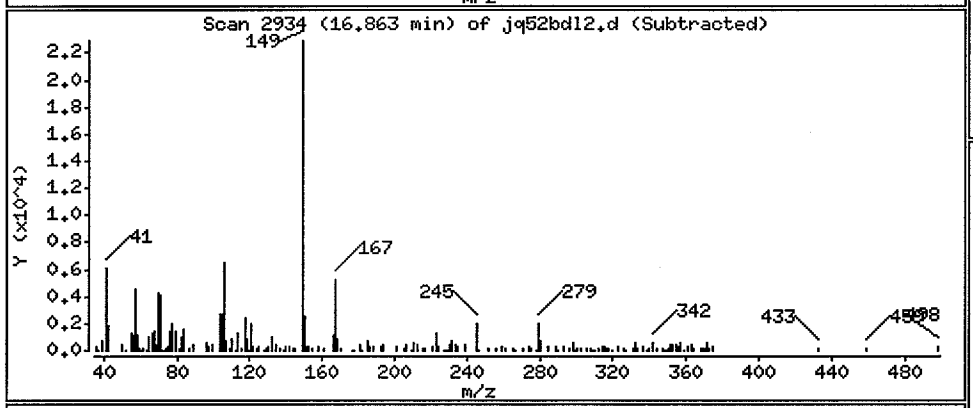
Column diameter: 0.32

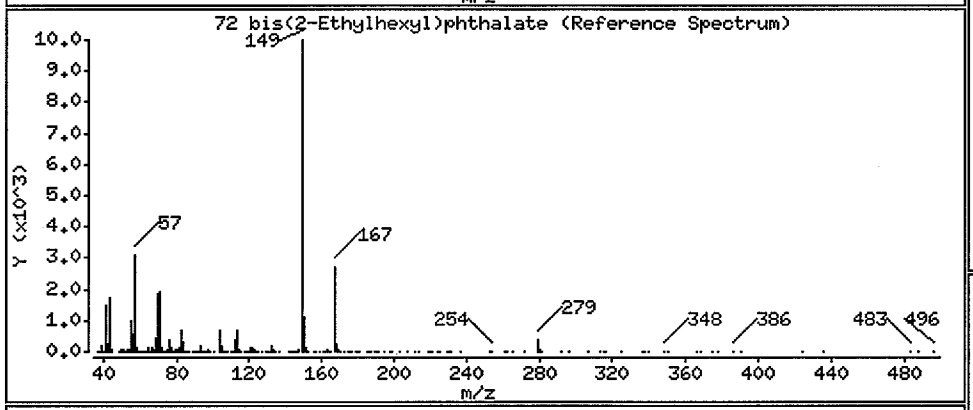
72 bis(2-Ethylhexyl)phthalate

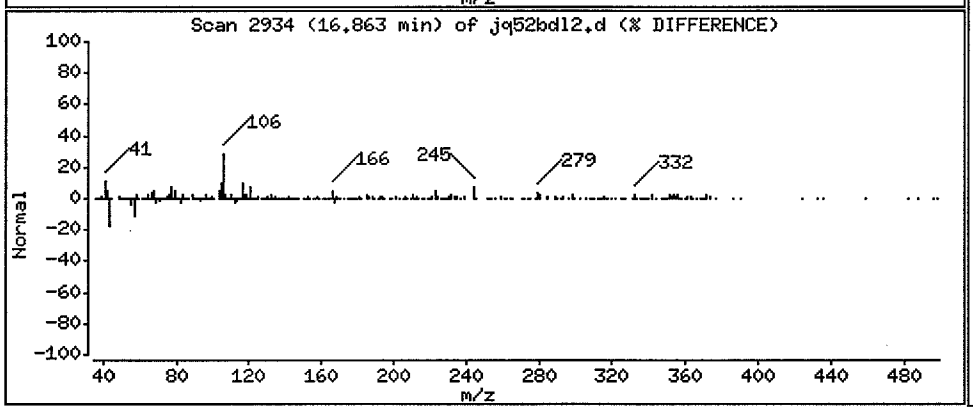
Concentration: 141.0 ug/kg

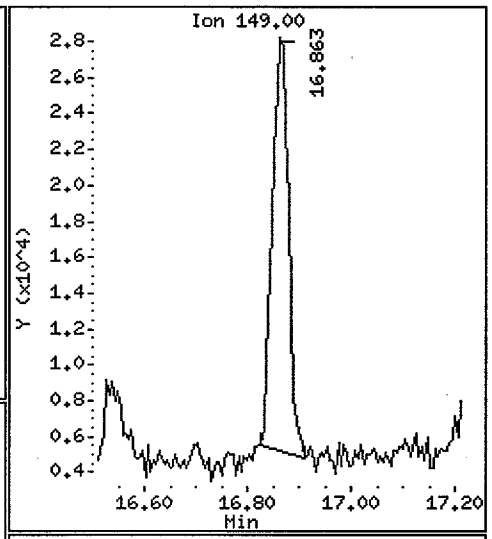
B

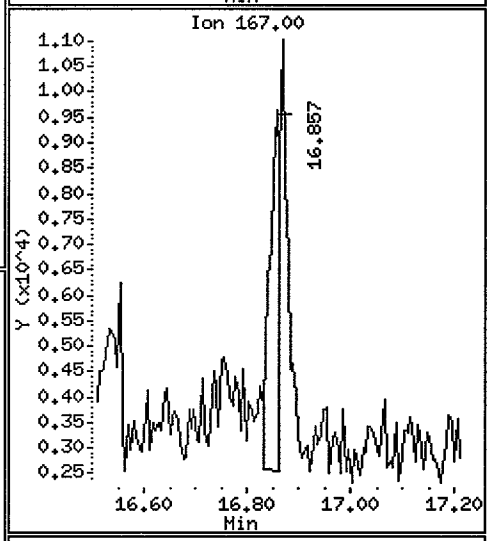


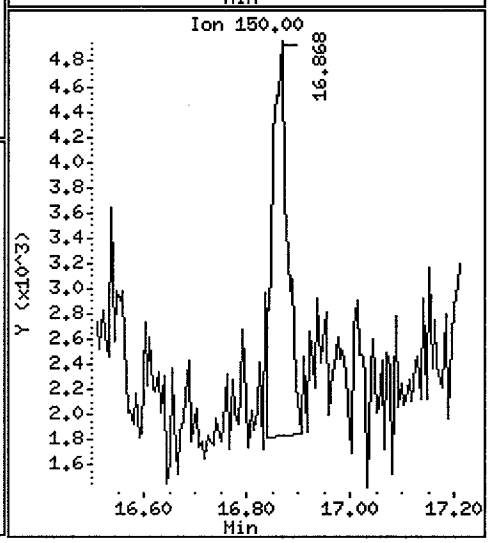






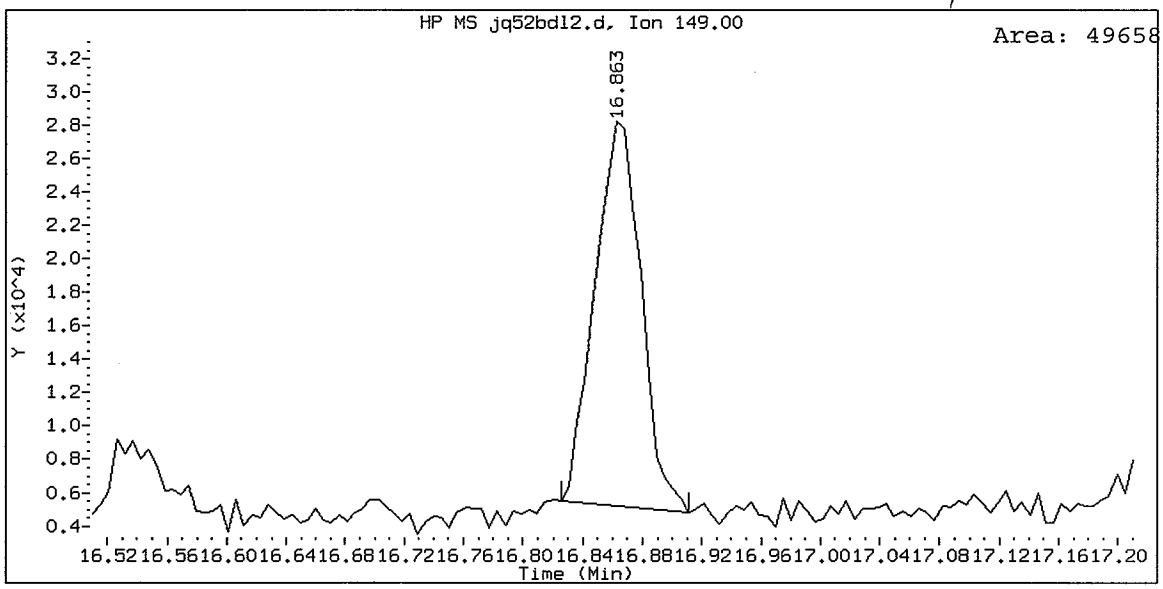


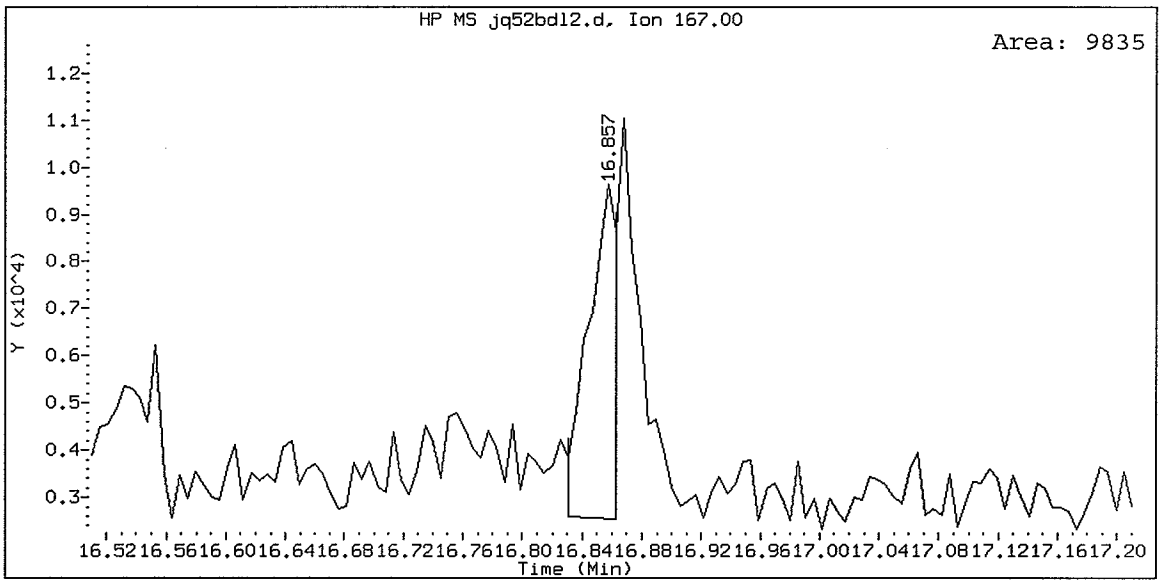


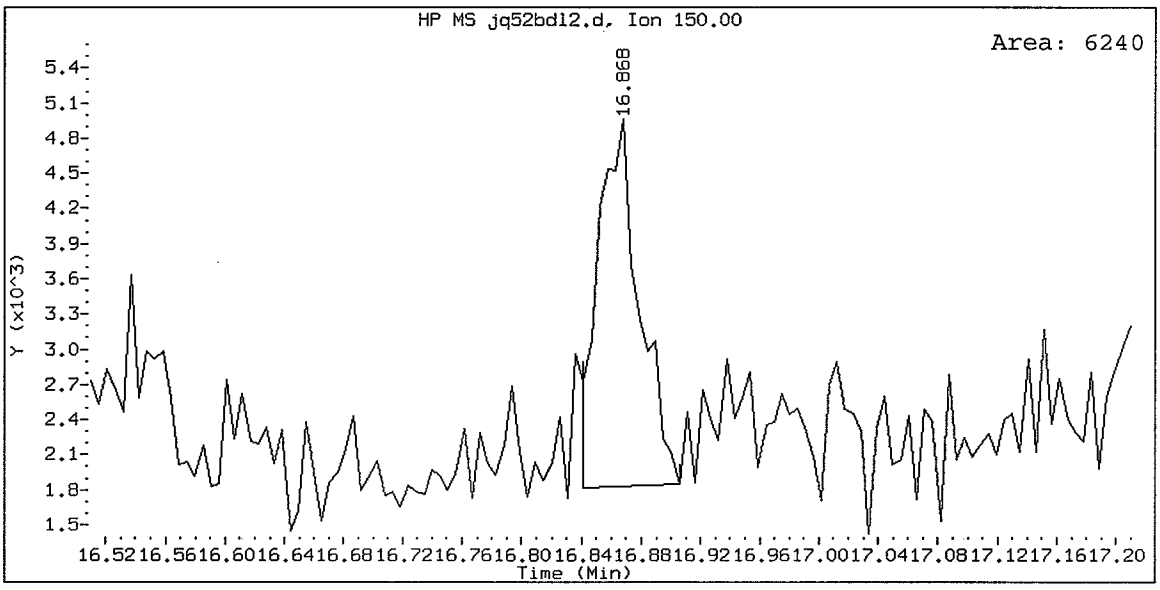


JQ52B, /chem1/nt6.i/20060809.b/jq52bdl2.d
bis(2-Ethylhexyl)phthalate Amount: 1.42

B







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-B414-02-A-DUP
SAMPLE

Lab Sample ID: JQ52C
LIMS ID: 06-13104
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 12:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 50.1%
pH: 6.4

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	59	< 59 U
84-66-2	Diethylphthalate	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	< 59 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	41.6%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060809.b/jq52cdl.d
Lab Smp Id: JQ52C Client Smp ID: T4-B414-02-A-DUP
Inj Date : 09-AUG-2006 12:25
Operator : LJR Inst ID: nt6.i
Smp Info : JQ52C,3
Misc Info : 06-13104
Comment : 1ul Injection
Method : /chem1/nt6.i/20060809.b/SW846.m
Meth Date : 10-Aug-2006 08:35 jeff Quant Type: ISTD LJR 8/10/06
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 7
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	~~1000.00000~~	Volume of final extract (uL)
Ws	102.00000	Weight of sample extracted (g)
M	50.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	2.852	2.823	(0.560)	111449	4.59632	270.9
$ 2 Phenol-d5	99	4.893	4.890	(0.960)	161059	5.48194	323.1(M)
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	4.818	4.810	(0.945)	120246	4.82686	284.5(M)
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	5.096	5.099	(1.000)	328600	20.0000	(M)
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	5.400	5.398	(1.060)	46703	2.90824	171.4
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	5.801	5.777	(1.138)	37485	1.12364	66.23(M) RT
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.084	6.092	(0.849)	111214	3.66165	215.8
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	7.168	7.177	(1.000)	1121955	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	8.995	8.999	(0.904)	169404	3.43282	202.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	9.946	9.955	(1.000)	660913	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	9.989	9.998	(1.004)	31516	0.74260 LDL	43.77
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.207	11.210	(1.127)	34318	5.39997	318.3
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.211	12.220	(1.000)	948685	20.0000	
	60 Phenanthrene	178	12.243	12.252	(1.003)	295636	4.68112	275.9
	61 Anthracene	178	12.307	12.321	(1.008)	46828	0.73859 LDL	43.53
	62 Carbazole	167	12.655	12.663	(1.036)	49534	0.97052	57.20(M)
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	14.097	14.100	(1.154)	605838	9.72984	573.5
65 Pyrene	202	14.418	14.421	(0.881)	509777	7.00274	412.8
$ 66 Terphenyl-d14	244	14.850	14.859	(0.908)	158625	3.46599	204.3
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	16.341	16.344	(0.999)	347489	5.32466	313.8
* 69 Chrysene-d12	240	16.357	16.360	(1.000)	864219	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	16.394	16.397	(1.002)	415348	6.40462	377.5
72 bis(2-Ethylhexyl)phthalate	149	16.864	16.862	(0.949)	25490	0.74605 LOQ B	43.97(M)
* 134 Di-n-octylphthalate-d4	153	17.778	17.776	(1.000)	1353174	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	17.933	17.936	(0.973)	371062	5.32305	313.7(M)
75 Benzo(k)fluoranthene	252	17.933	17.963	(0.973)	574103	7.96447	469.4(M)
76 Benzo(a)pyrene	252	18.344	18.342	(0.995)	412288	6.14496	362.2
* 77 Perylene-d12	264	18.430	18.422	(1.000)	1061784	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	19.738	19.736	(1.071)	399587	4.89551	288.5
79 Dibenzo(a,h)anthracene	278	19.786	19.784	(1.074)	46186	0.57604 LOQ	33.95(M)
80 Benzo(g,h,i)perylene	276	20.011	20.014	(1.086)	384061	4.49352	264.9
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

LOQ NOT reported AB 8/11/06

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq52cdl.d
Lab Smp Id: JQ52C
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060809.b/SW846.m
Misc Info: 06-13104

Calibration Date: 09-AUG-2006
Calibration Time: 09:22
Client Smp ID: T4-B414-02-A-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	324892	162446	649784	328600	1.14
27 Naphthalene-d8	1118078	559039	2236156	1121955	0.35
42 Acenaphthene-d10	626364	313182	1252728	660913	5.52
59 Phenanthrene-d10	965932	482966	1931864	948685	-1.79
69 Chrysene-d12	826790	413395	1653580	864219	4.53
134 Di-n-octylphthala	1180779	590390	2361558	1353174	14.60
77 Perylene-d12	721459	360730	1442918	1061784	47.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.10	4.60	5.60	5.10	-0.06
27 Naphthalene-d8	7.18	6.68	7.68	7.17	-0.12
42 Acenaphthene-d10	9.95	9.45	10.45	9.95	-0.09
59 Phenanthrene-d10	12.22	11.72	12.72	12.21	-0.07
69 Chrysene-d12	16.36	15.86	16.86	16.36	-0.02
134 Di-n-octylphthala	17.78	17.28	18.28	17.78	0.01
77 Perylene-d12	18.42	17.92	18.92	18.43	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

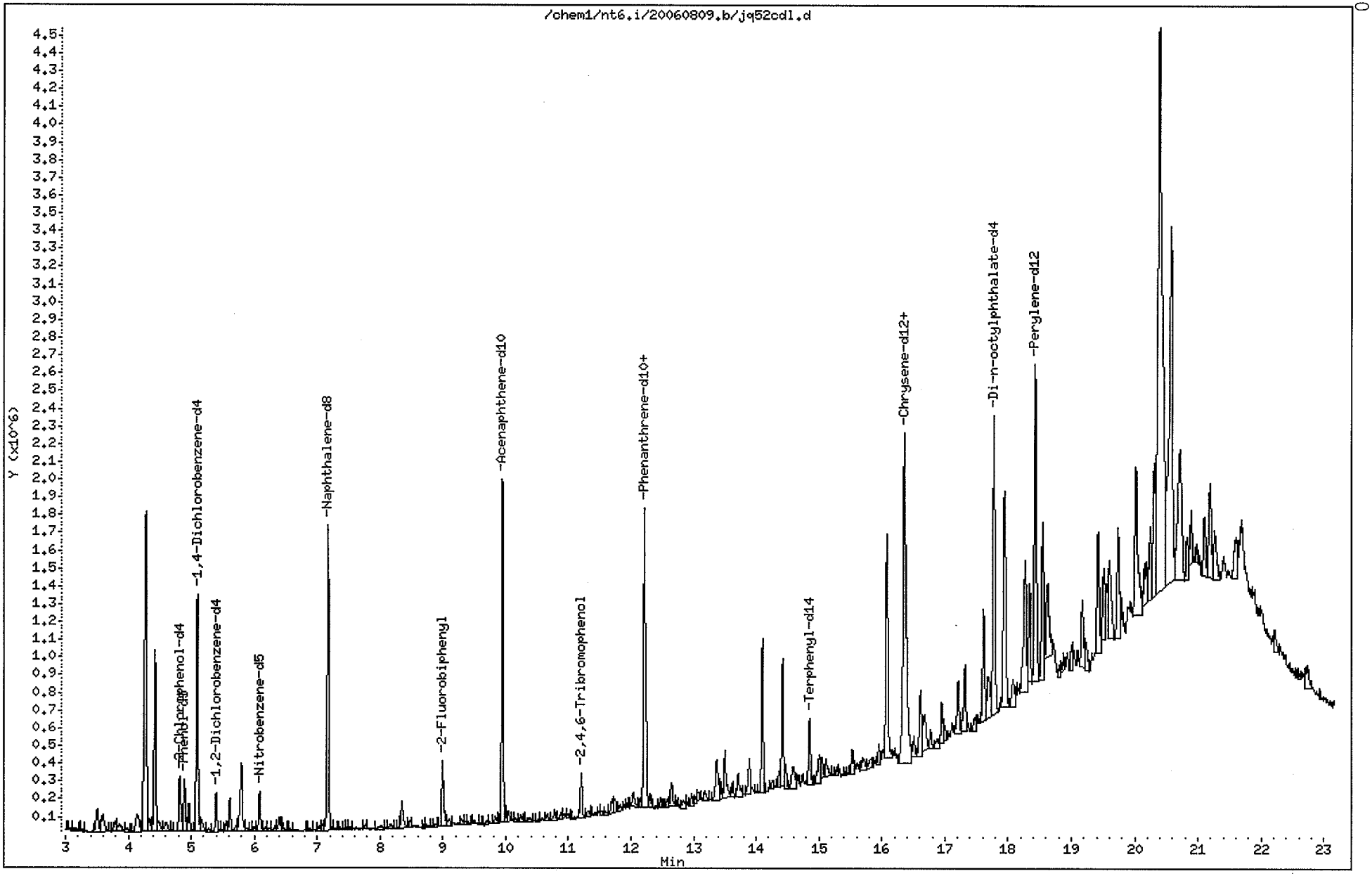
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52C
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060809.b/SW846.m
Misc Info: 06-13104

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-B414-02-A-DUP
Operator: LJR
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	736.8	270.9	36.77	22-91
$ 2 Phenol-d5	736.8	323.1	43.86	26-99
$ 5 2-Chlorophenol-d4	736.8	284.5	38.61	29-96
$ 10 1,2-Dichlorobenzen	491.2	171.4	34.90	24-87
$ 18 Nitrobenzene-d5	491.2	215.8	43.94	27-101
$ 36 2-Fluorobiphenyl	491.2	202.3	41.19	30-100
$ 55 2,4,6-Tribromophen	736.8	318.3	43.20	20-114
$ 66 Terphenyl-d14	491.2	204.3	41.59	12-120

Data File: /chem1/nt6.i/20060809.b/jq52cdl.d
Date : 09-AUG-2006 12:25
Client ID: T4-B414-02-A-DUP
Sample Info: JQ52C,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



0381

Data File: /chem1/nt6.i/20060809.b/jq52cdl.d

Date : 09-AUG-2006 12:25

Client ID: T4-B414-02-A-DUP

Instrument: nt6.i

Sample Info: JQ52C,3

Volume Injected (uL): 1.0

Operator: LJR

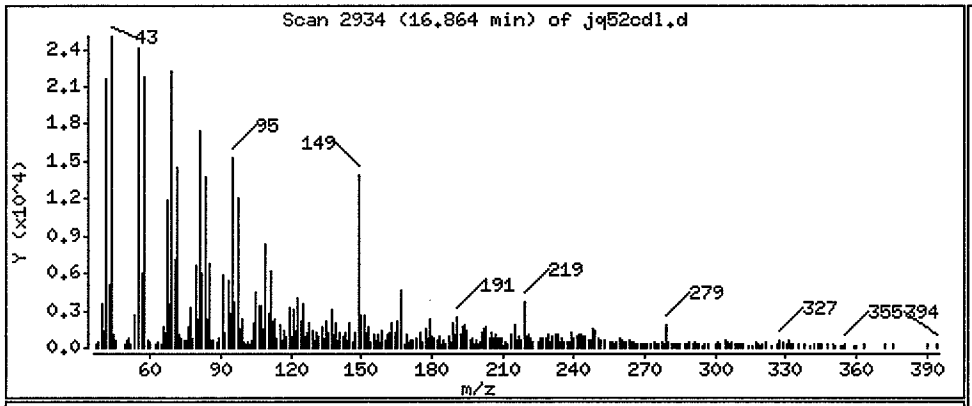
Column phase: ZB-5

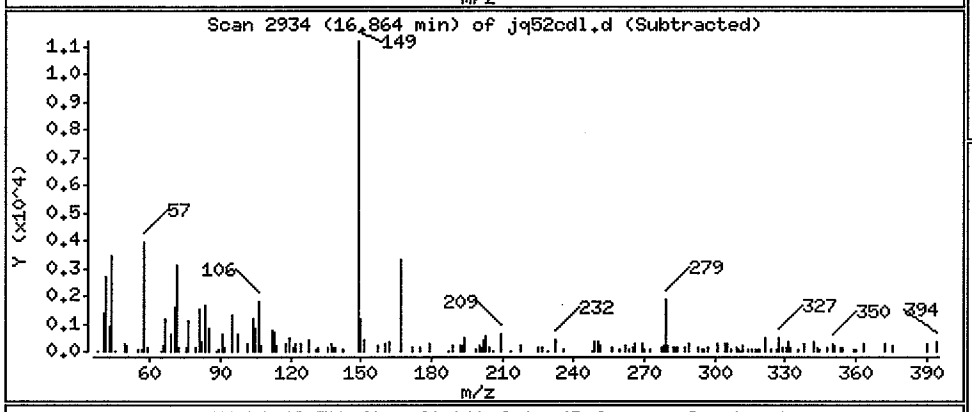
Column diameter: 0.32

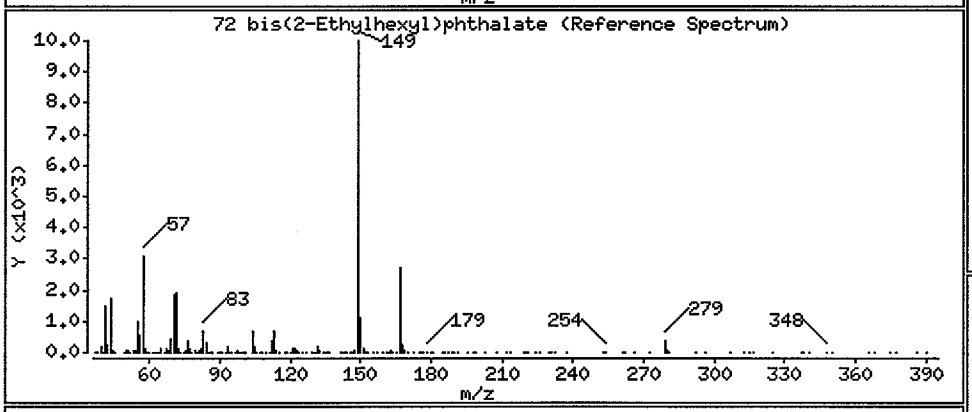
B LRL NOT reported BRB 8/1/06

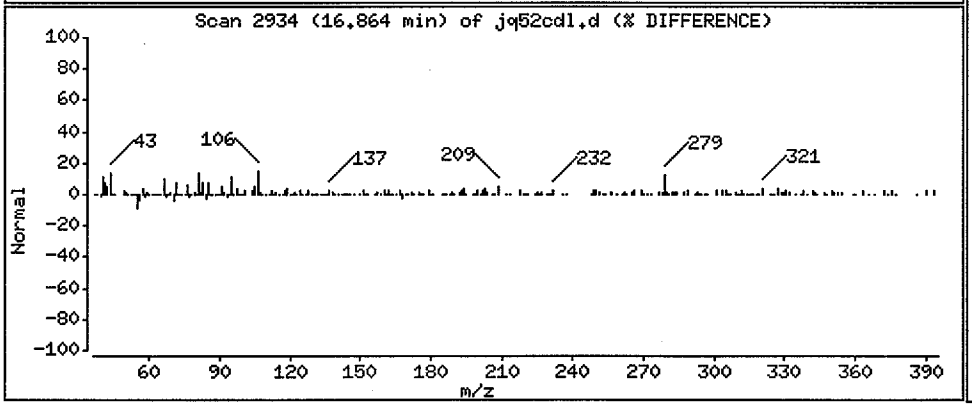
72 bis(2-Ethylhexyl)phthalate

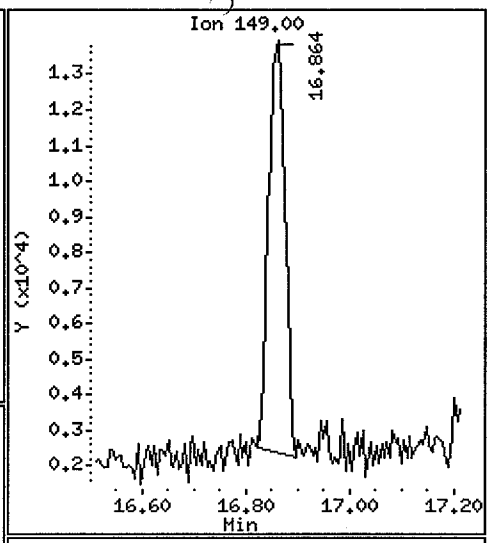
Concentration: 43.97 ug/kg

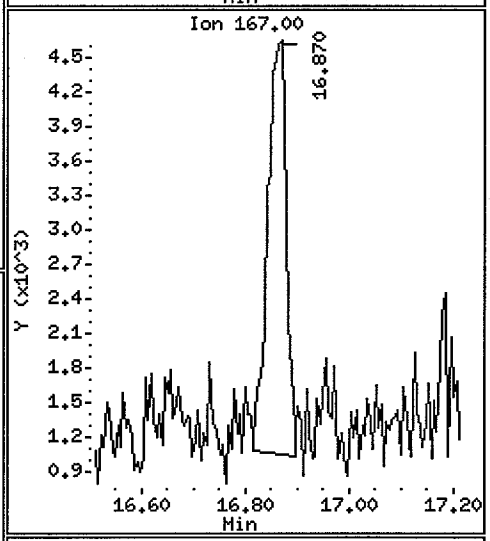


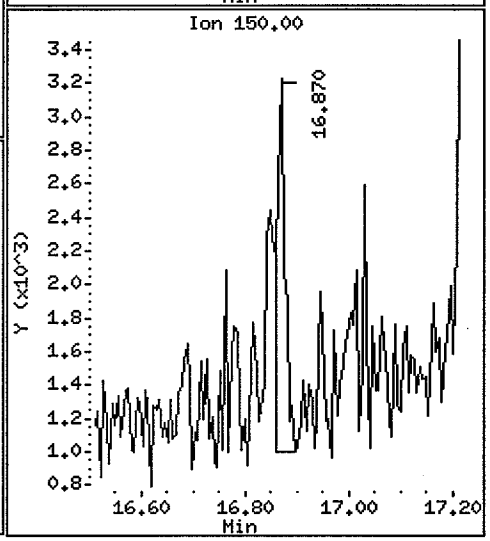




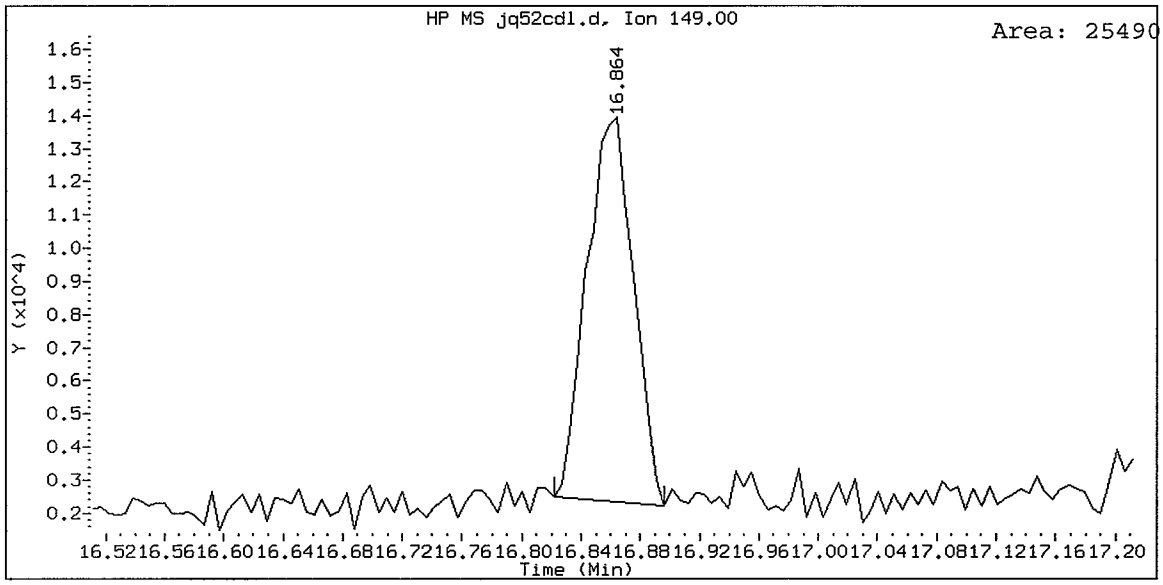


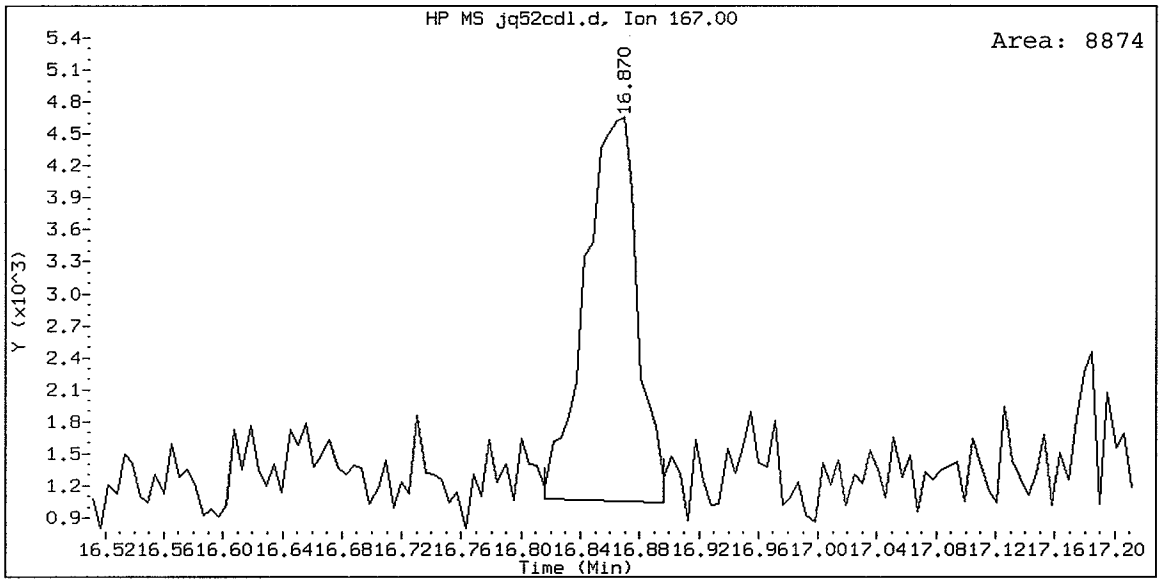


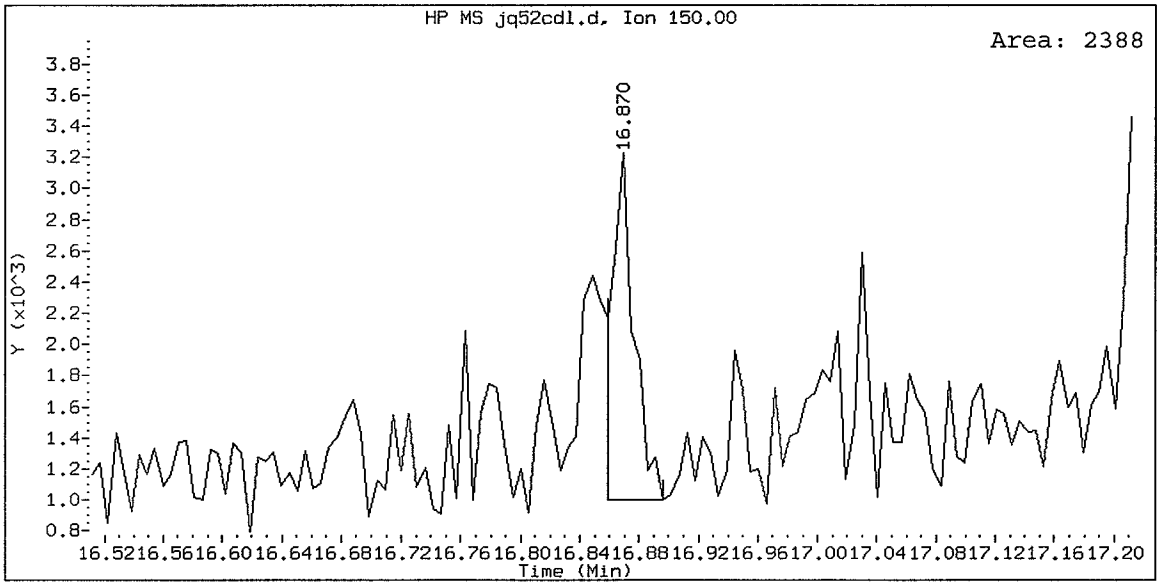




JQ52C, /chem1/nt6.i/20060809.b/jq52cdl.d
bis(2-Ethylhexyl)phthalate Amount: 0.75







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: T4-S3-08-C-DUP
SAMPLE

Lab Sample ID: JQ52D
LIMS ID: 06-13114
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 12:55
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 15.3%
pH: 5.8

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	59	< 59 U
84-66-2	Diethylphthalate	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	< 59 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	63.7%

FORM I

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060809.b/jq52ddl.d
Lab Smp Id: JQ52D Client Smp ID: T4-S3-08-C-DUP
Inj Date : 09-AUG-2006 12:55
Operator : LJR Inst ID: nt6.i
Smp Info : JQ52D,3
Misc Info : 06-13114
Comment : 1ul Injection
Method : /chem1/nt6.i/20060809.b/SW846.m
Meth Date : 10-Aug-2006 08:35 jeff Quant Type: ISTD LJR 8/10/06
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 8
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	60.10000	Weight of sample extracted (g)
M	15.30000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	2.850	2.823	(0.560)	139736	5.96371	351.5(M)
$ 2 Phenol-d5	99	4.896	4.890	(0.961)	206087	7.25896	427.8
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	4.816	4.810	(0.945)	164854	6.84807	403.6(M)
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	5.094	5.099	(1.000)	317536	20.0000	(M)
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	5.399	5.398	(1.060)	65522	4.22229	248.8(M)
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	5.783	5.777	(1.135)	17566	0.54490 LOL	32.11(M)
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.088	6.092	(0.849)	149726	5.08406	299.6
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	7.172	7.177	(1.000)	1087876	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	8.994	8.999	(0.904)	230893	4.79919	282.8
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	9.950	9.955	(1.000)	644339	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	9.993	9.998	(1.004)	35953	0.86894 LDL	51.21
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.205	11.210	(1.126)	42209	6.81247	401.5
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.210	12.220	(1.000)	981426	20.0000	
	60 Phenanthrene	178	12.242	12.252	(1.003)	193247	2.95781	174.3
	61 Anthracene	178	12.311	12.321	(1.008)	43581	0.66444 LDL	39.16
	62 Carbazole	167	12.653	12.663	(1.036)	30389	0.57555 J	33.92
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	14.096	14.100	(1.154)	515979	8.01024	472.1
65 Pyrene	202	14.416	14.421	(0.881)	459616	6.64619	391.7
$ 66 Terphenyl-d14	244	14.854	14.859	(0.908)	230851	5.30979	312.9
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	16.334	16.344	(0.999)	382212	6.16517	363.3
* 69 Chrysene-d12	240	16.355	16.360	(1.000)	820983	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	16.393	16.397	(1.002)	395144	6.41397	378.0
72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134 Di-n-octylphthalate-d4	153	17.771	17.776	(1.000)	1223600	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	17.937	17.936	(0.974)	417007	7.13273	420.4(M)
75 Benzo(k)fluoranthene	252	17.937	17.963	(0.974)	408208	6.75223	397.9(M)
76 Benzo(a)pyrene	252	18.337	18.342	(0.995)	425551	7.56257	445.7
* 77 Perylene-d12	264	18.423	18.422	(1.000)	890507	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	19.726	19.736	(1.071)	365771	5.34312	314.9
79 Dibenzo(a,h)anthracene	278	19.780	19.784	(1.074)	49359	0.73402 LOL	43.26(M)
80 Benzo(g,h,i)perylene	276	19.999	20.014	(1.086)	330679	4.61309	271.9
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq52ddl.d
Lab Smp Id: JQ52D
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060809.b/SW846.m
Misc Info: 06-13114

Calibration Date: 09-AUG-2006
Calibration Time: 09:22
Client Smp ID: T4-S3-08-C-DUP
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	324892	162446	649784	317536	-2.26
27 Naphthalene-d8	1118078	559039	2236156	1087876	-2.70
42 Acenaphthene-d10	626364	313182	1252728	644339	2.87
59 Phenanthrene-d10	965932	482966	1931864	981426	1.60
69 Chrysene-d12	826790	413395	1653580	820983	-0.70
134 Di-n-octylphthala	1180779	590390	2361558	1223600	3.63
77 Perylene-d12	721459	360730	1442918	890507	23.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.10	4.60	5.60	5.09	-0.09
27 Naphthalene-d8	7.18	6.68	7.68	7.17	-0.07
42 Acenaphthene-d10	9.95	9.45	10.45	9.95	-0.05
59 Phenanthrene-d10	12.22	11.72	12.72	12.21	-0.08
69 Chrysene-d12	16.36	15.86	16.86	16.36	-0.03
134 Di-n-octylphthala	17.78	17.28	18.28	17.77	-0.03
77 Perylene-d12	18.42	17.92	18.92	18.42	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

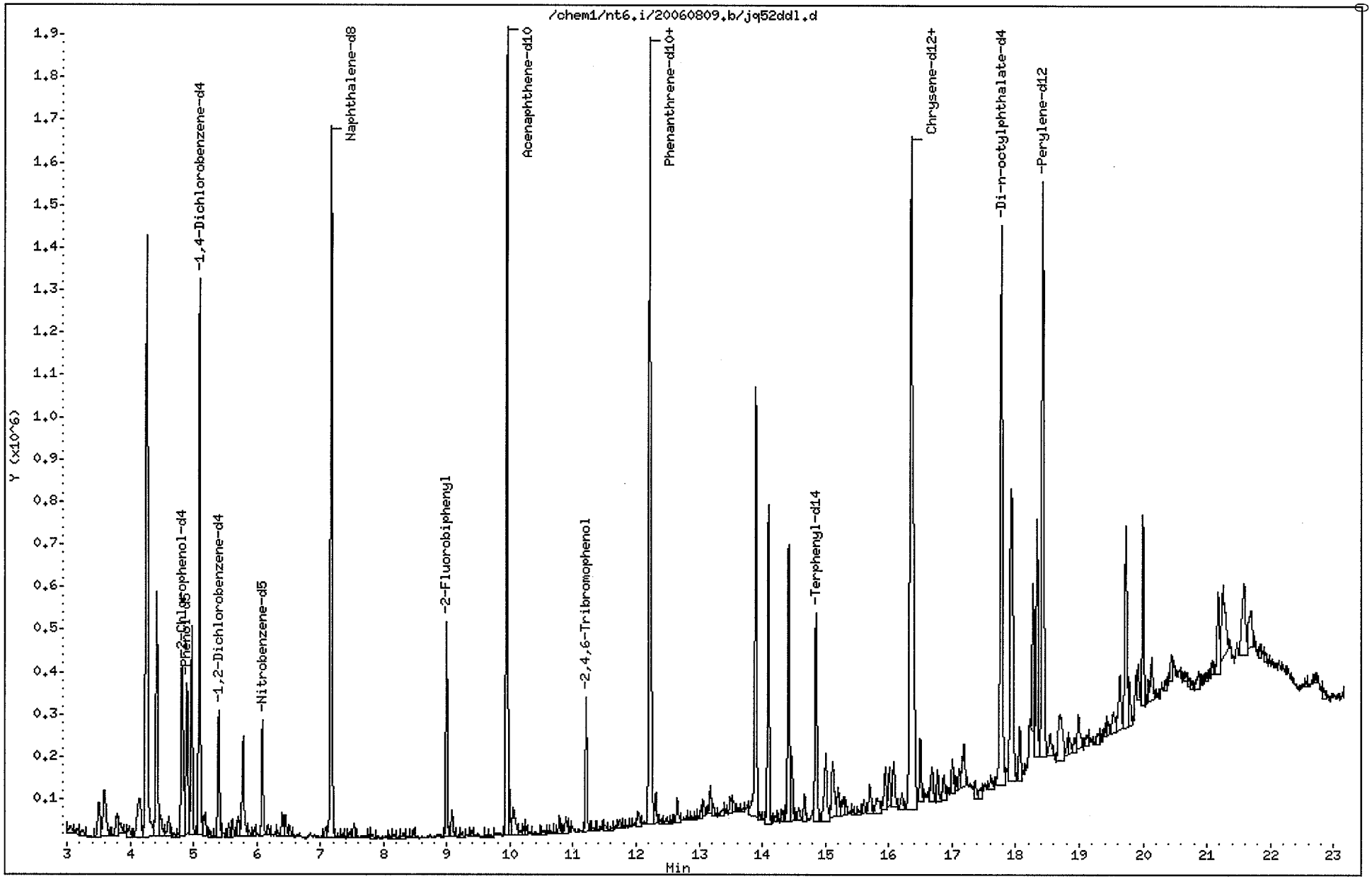
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ52D
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060809.b/SW846.m
Misc Info: 06-13114

Client SDG: JQ52
Fraction: SV
Client Smp ID: T4-S3-08-C-DUP
Operator: LJR
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	736.7	351.5	47.71	22-91
$ 2 Phenol-d5	736.7	427.8	58.07	26-99
$ 5 2-Chlorophenol-d4	736.7	403.6	54.78	29-96
$ 10 1,2-Dichlorobenzen	491.1	248.8	50.67	24-87
$ 18 Nitrobenzene-d5	491.1	299.6	61.01	27-101
$ 36 2-Fluorobiphenyl	491.1	282.8	57.59	30-100
$ 55 2,4,6-Tribromophen	736.7	401.5	54.50	20-114
$ 66 Terphenyl-d14	491.1	312.9	63.72	12-120

Data File: /chem1/nt6.i/20060809.b/jq52dd1.d
Date : 09-AUG-2006 12:55
Client ID: T4-S3-08-C-DUP
Sample Info: JQ52D,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



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