SIM Semivolatile Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

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-B414-01-D
SAMPLE

Lab Sample ID: JU43A
LIMS ID: 06-15845
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 12:53
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 1.20 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**42**	**130**
91-57-6	**2-Methylnaphthalene**	**42**	**75**
90-12-0	**1-Methylnaphthalene**	**42**	**29 J**
208-96-8	**Acenaphthylene**	**42**	**29 J**
83-32-9	**Acenaphthene**	**42**	**150**
86-73-7	**Fluorene**	**42**	**120**
85-01-8	**Phenanthrene**	**42**	**330**
120-12-7	**Anthracene**	**42**	**100**
206-44-0	**Fluoranthene**	**42**	**730**
129-00-0	**Pyrene**	**42**	**710**
56-55-3	**Benzo(a)anthracene**	**42**	**240**
218-01-9	**Chrysene**	**42**	**370**
205-99-2	**Benzo(b)fluoranthene**	**42**	**280**
207-08-9	**Benzo(k)fluoranthene**	**42**	**250**
50-32-8	**Benzo(a)pyrene**	**42**	**280**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**42**	**200**
53-70-3	**Dibenz(a,h)anthracene**	**42**	**46**
191-24-2	**Benzo(g,h,i)perylene**	**42**	**280**
198-55-0	**Perylene**	**42**	**370**
92-52-4	Biphenyl	42	< 42 U
581-42-0	2,6-Dimethylnaphthalene	42	< 42 U
832-69-9	1-Methylphenanthrene	42	< 42 U
192-97-2	**Benzo(e)pyrene**	**42**	**240**
2245-38-7	2,3,5-Trimethylnaphthalene	42	< 42 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	82.7%
d14-Dibenzo(a,h)anthracen	89.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43a.d
Lab Smp Id: JU43A Client Smp ID: T4-B414-01-D
Inj Date : 12-SEP-2006 12:53
Operator : VTS Inst ID: nt1.i
Smp Info : JU43A
Misc Info : 06-15845
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	2.19000	Weight of sample extracted (g)
M	45.10000	% 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	6.807	6.808	(1.000)	309586	2.00000		
	2 Naphthalene	128	6.836	6.832	(1.004)	48131	0.32360	134.6	
$	3 2-Methylnaphthalene-d10	152	7.563	7.564	(1.111)	190591	2.48272	1032	
	4 2-Methylnaphthalene	142	7.598	7.600	(1.116)	14238	0.18011	74.90	
	5 1-Methylnaphthalene	142	7.729	7.730	(1.135)	5781	0.06739	28.03	J
	7 Acenaphthylene	152	8.686	8.687	(0.979)	8334	0.06603	27.46	J
*	8 Acenaphthene-d10	164	8.869	8.871	(1.000)	153628	2.00000		
	9 Acenaphthene	153	8.905	8.906	(1.004)	27742	0.36393	151.3	
	10 Dibenzofuran	168	9.094	9.095	(1.025)	18231	~~0.16~~828	69.98	NR
	11 Fluorene	166	9.519	9.521	(1.073)	24023	0.29046	120.8	
*	15 Phenanthrene-d10	188	10.678	10.679	(1.000)	205279	2.00000		
	16 Phenanthrene	178	10.707	10.709	(1.003)	88204	0.79267	329.6	
	17 Anthracene	178	10.766	10.762	(1.008)	26686	0.23779	98.89	
	19 Fluoranthene	202	12.197	12.198	(1.142)	166031	1.74803	726.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.486	12.488	(0.893)	188286	1.70807	710.3	
	22 Benzo(a)anthracene	228	13.964	13.965	(0.998)	53096	0.56544	235.1	
*	23 Chrysene-d12	240	13.987	13.989	(1.000)	156625	2.00000		
	24 Chrysene	228	14.017	14.018	(1.002)	78165	0.88582	368.4	
	28 Benzo(b)fluoranthene	252	15.335	15.336	(0.964)	61498	0.65894	274.0	
	29 Benzo(k)fluoranthene	252	15.364	15.366	(0.966)	58074	0.59581	247.8	(M)
	30 Benzo(a)pyrene	252	15.819	15.821	(0.995)	56238	0.66808	277.8	
*	31 Perylene-d12	264	15.902	15.898	(1.000)	164811	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.817	17.813	(1.120)	44393	0.49125	204.3	
$	32 Dibenz(a,h)anthrancene-d14	292	17.734	17.736	(1.115)	145012	2.68500	1117	
	34 Dibenz(a,h)anthracene	278	17.799	17.807	(1.119)	8339	0.11386	47.35	
	35 Benzo(g,h,i)perylene	276	18.384	18.380	(1.156)	52468	0.65697	273.2	
	48 Biphenyl	154	Compound Not Detected.						
	49 2,6-Dimethylnaphthalene	156	8.337	8.333	(0.940)	6775	0.09414	39.15	J
	50 2,3,5-Trimethylnaphthalene	170	9.348	9.355	(1.054)	4266	0.07504	31.21	J
	51 1-Methylphenanthrene	192	Compound Not Detected.						
	52 Benzo(e)pyrene	252	15.743	15.744	(0.990)	53078	0.56599	235.4	
	53 Perylene	252	15.938	15.939	(1.002)	78283	0.89461	372.0	

QC Flag Legend

M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43a.d
Lab Smp Id: JU43A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15845

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-01-D
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	309586	-9.36
8 Acenaphthene-d10	169375	84688	338750	153628	-9.30
15 Phenanthrene-d10	232185	116092	464370	205279	-11.59
23 Chrysene-d12	179856	89928	359712	156625	-12.92
31 Perylene-d12	175373	87686	350746	164811	-6.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	-0.02
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.02
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	-0.01
23 Chrysene-d12	13.99	13.49	14.49	13.99	-0.01
31 Perylene-d12	15.90	15.40	16.40	15.90	0.03

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43A
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15845

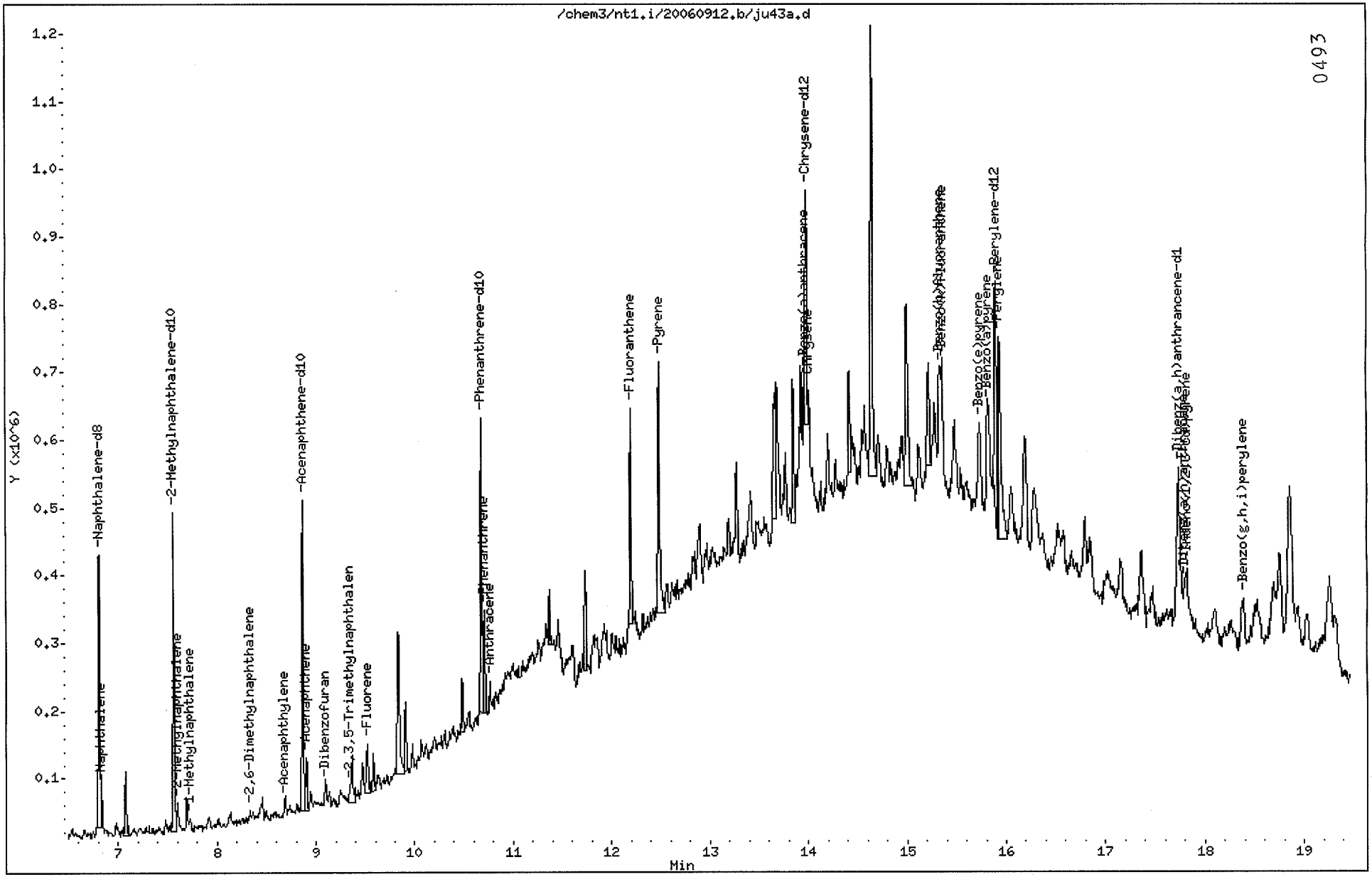
Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-01-D
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	1248	1032	82.76	32-97
$ 32 Dibenz(a,h)anthran	1248	1117	89.50	21-105

Data File: /chem3/nt1.i/20060912.b/ju43a.d
Date : 12-SEP-2006 12:53
Client ID: T4-B414-01-D
Sample Info: JU43A
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

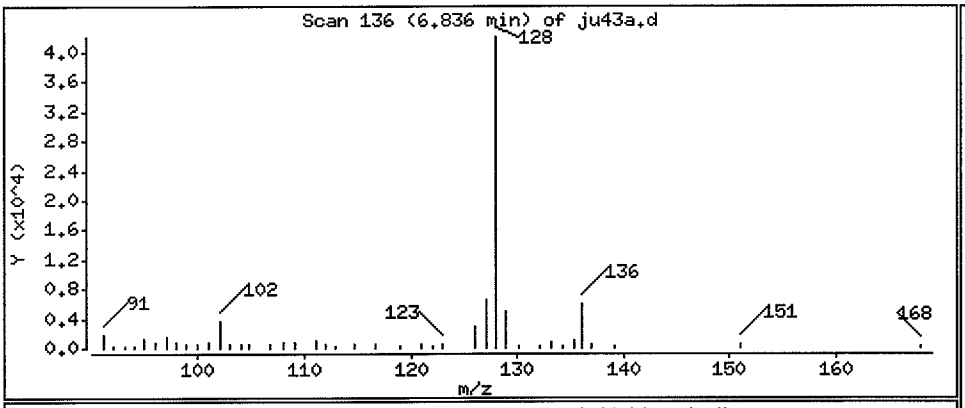
Operator: VTS

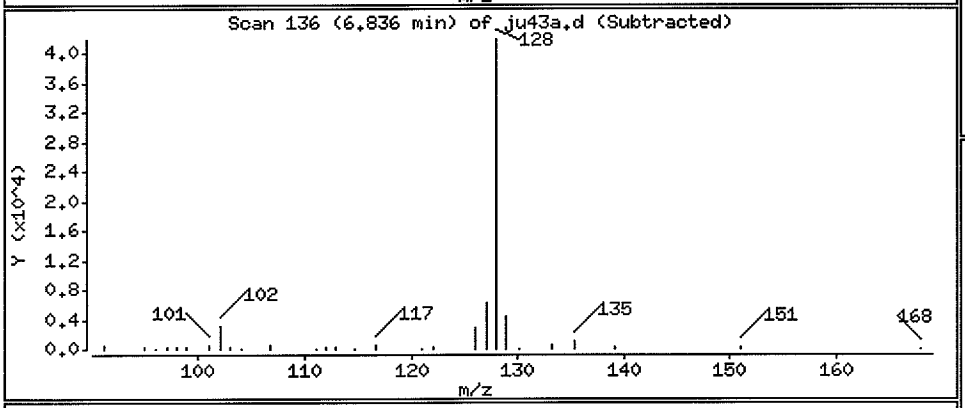
Column phase: ZB-5

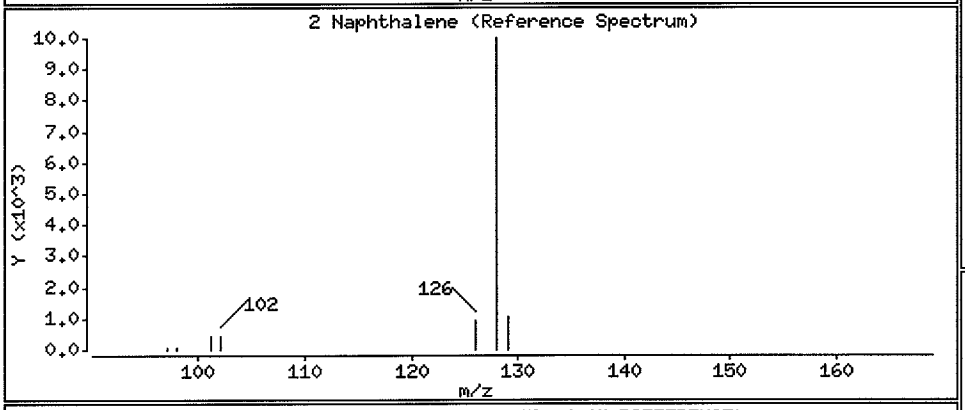
Column diameter: 0.25

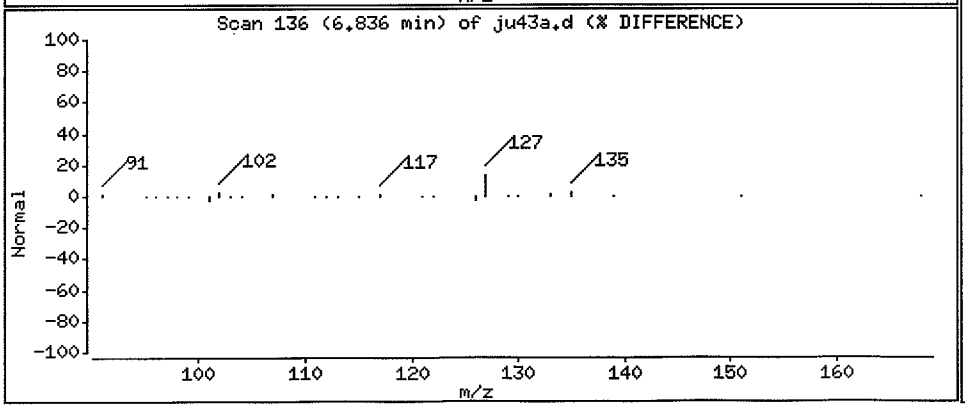
2 Naphthalene

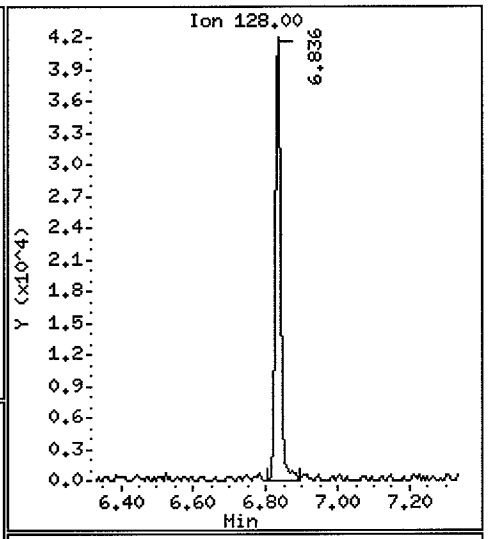
Concentration: 134.6 ug/kg

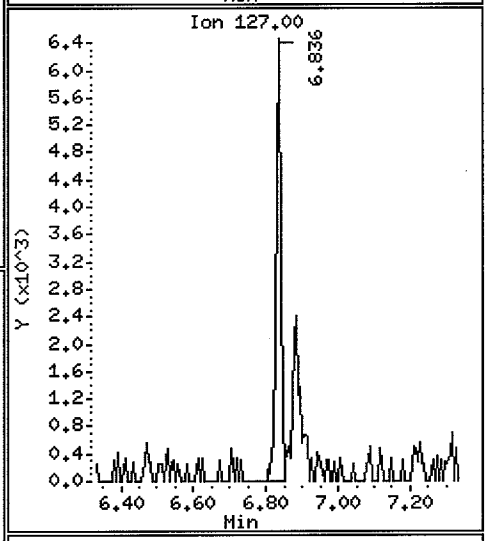


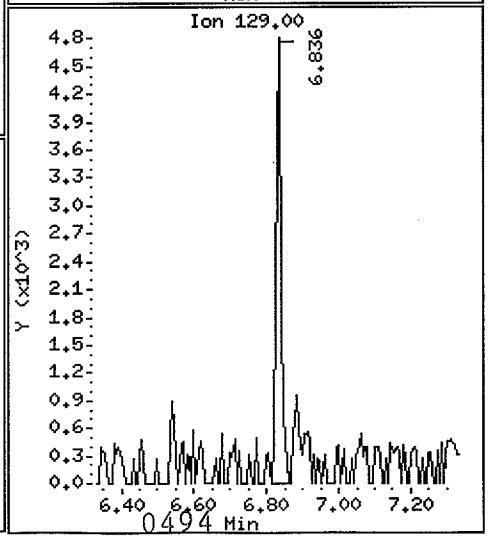












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

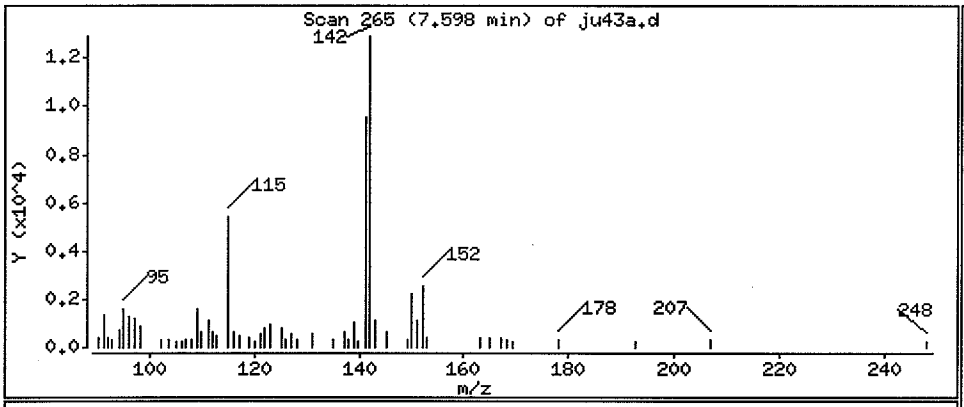
Operator: VTS

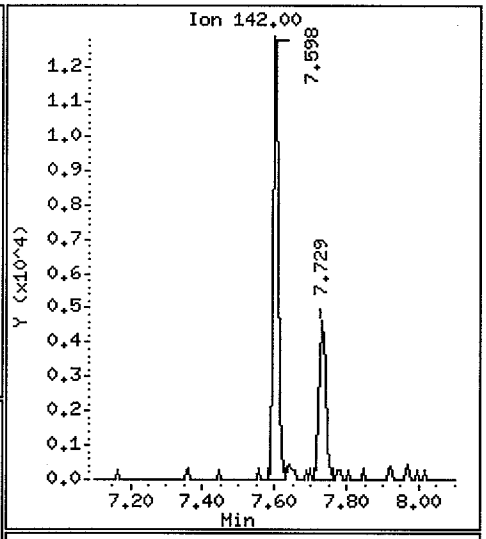
Column phase: ZB-5

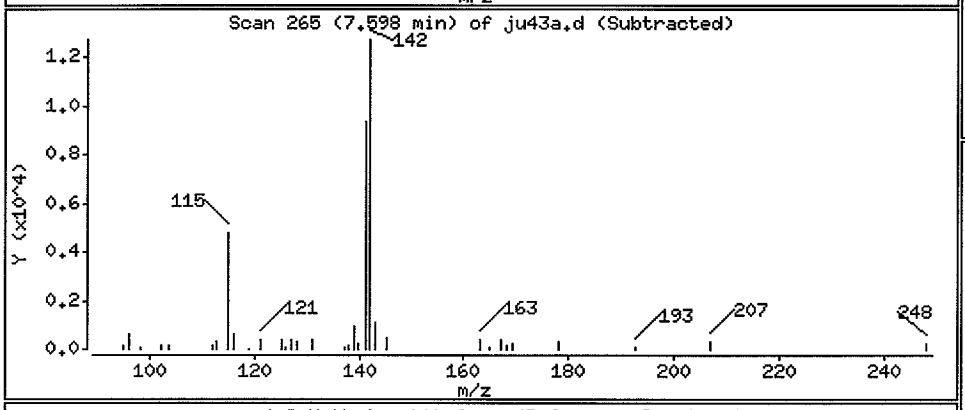
Column diameter: 0.25

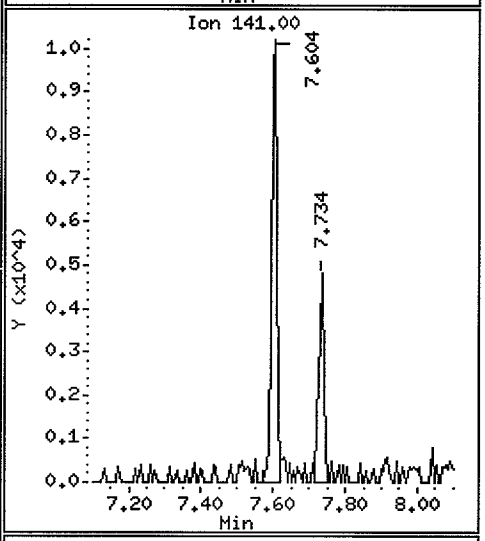
4 2-Methylnaphthalene

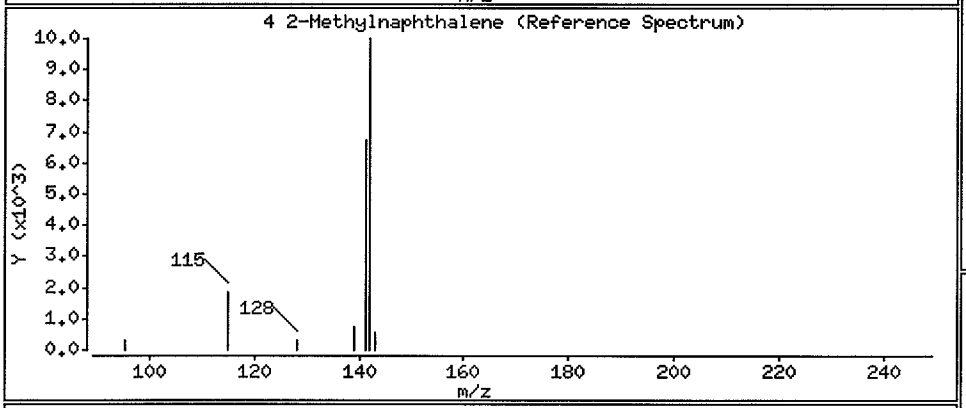
Concentration: 74.90 ug/kg

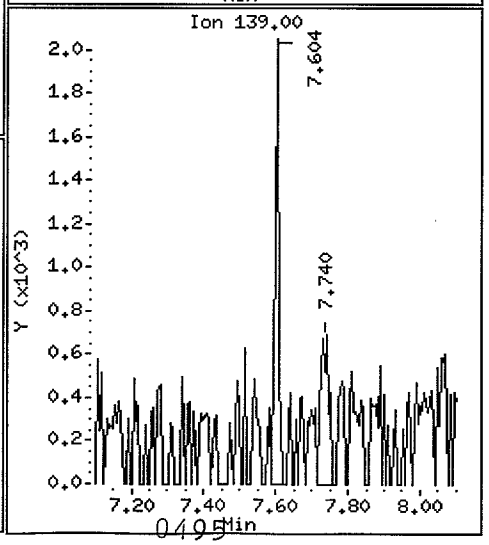


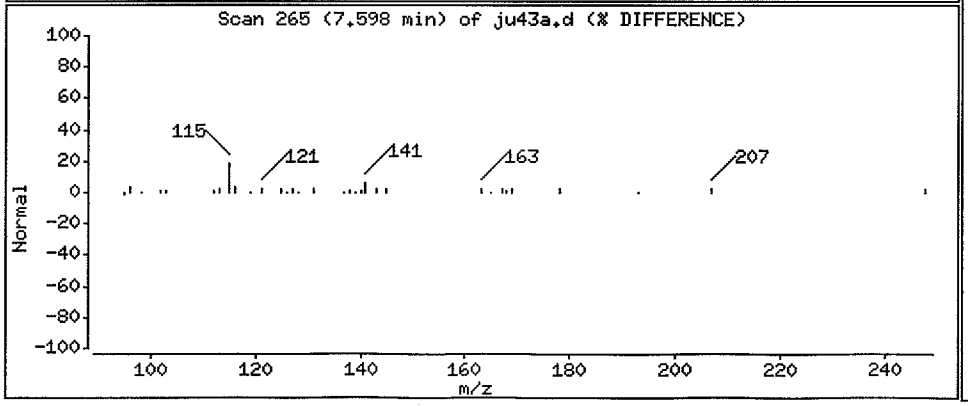












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

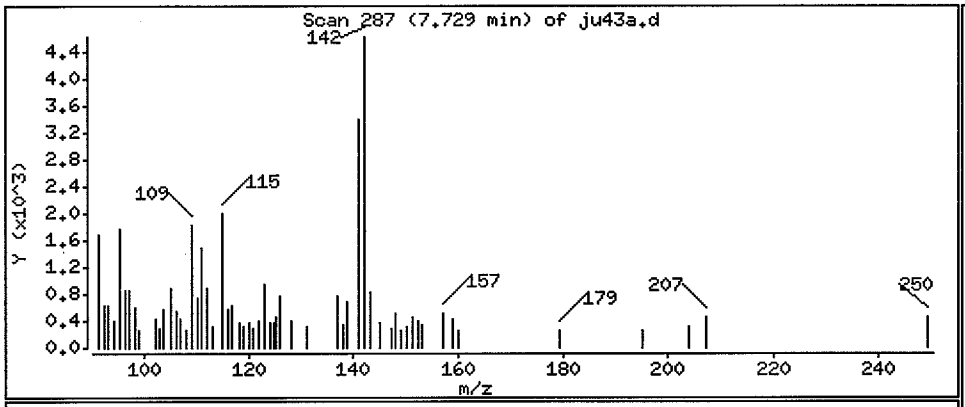
Operator: VTS

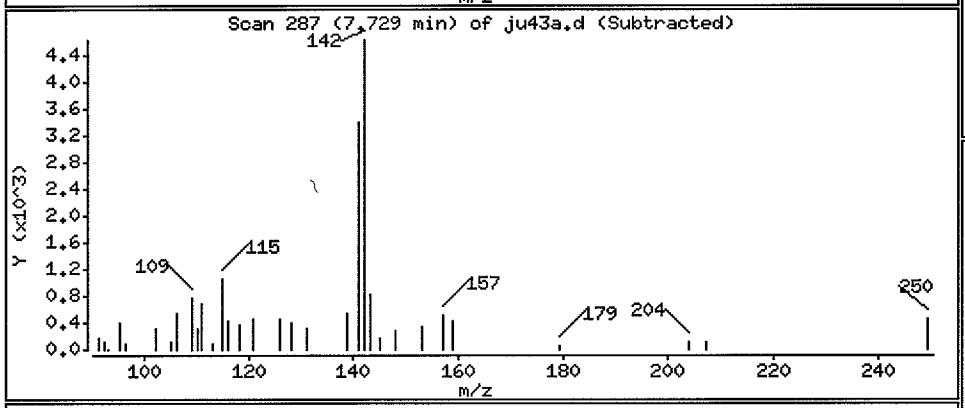
Column phase: ZB-5

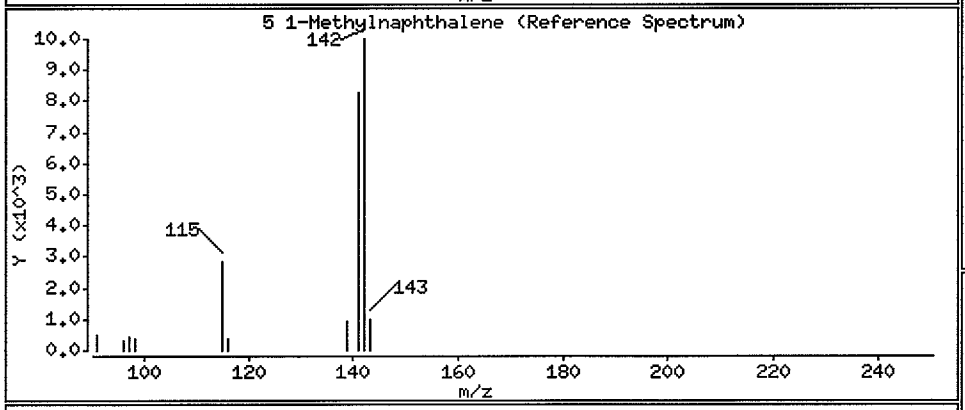
Column diameter: 0.25

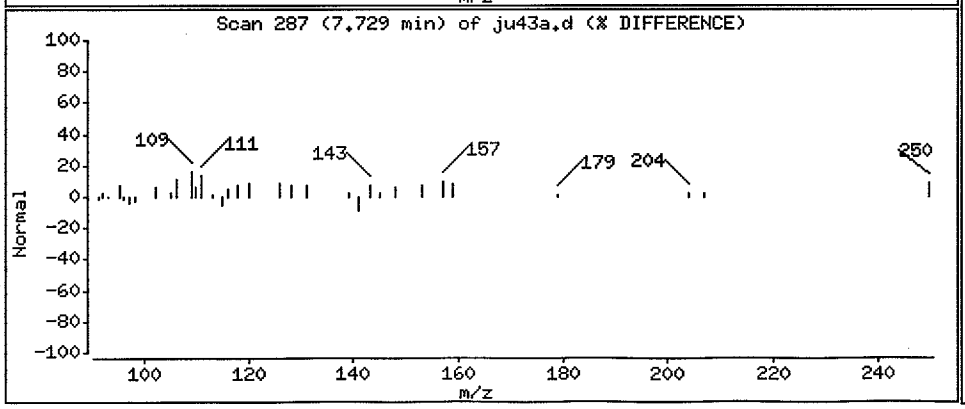
5 1-Methylnaphthalene

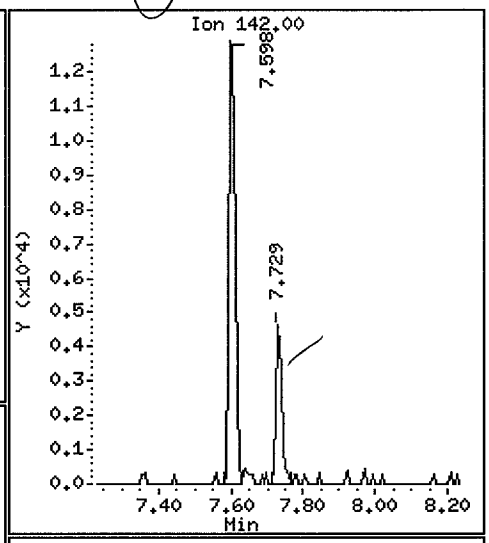
Concentration: 28.03 ug/kg

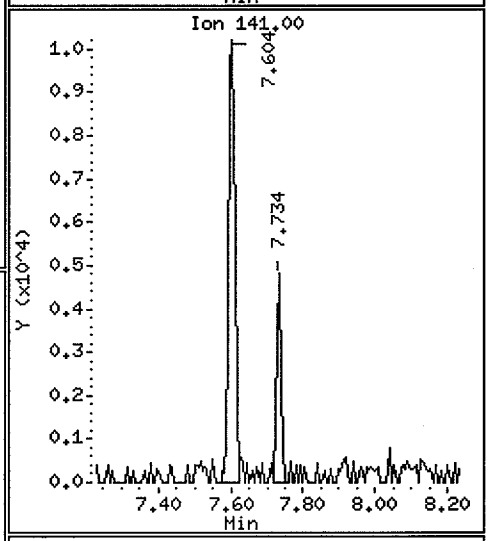


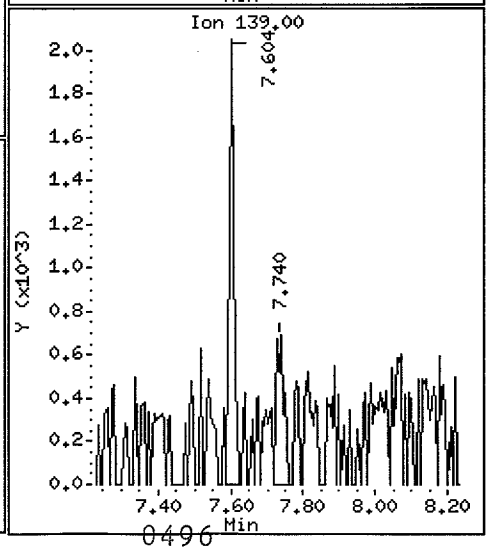












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

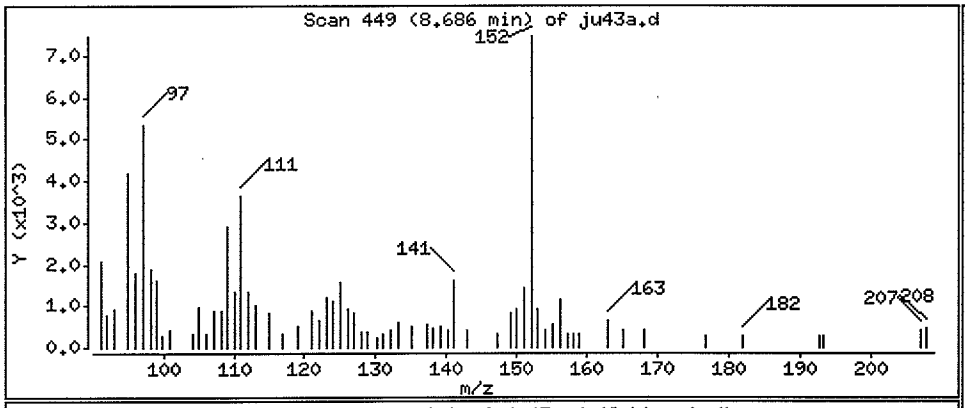
Operator: VTS

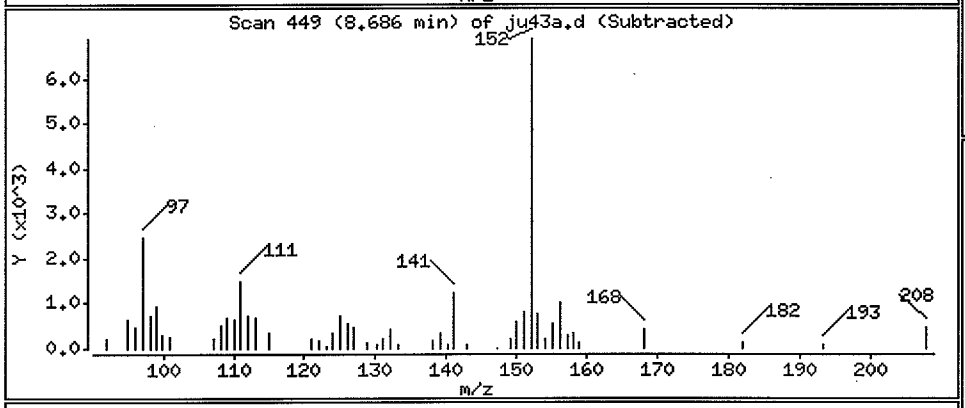
Column phase: ZB-5

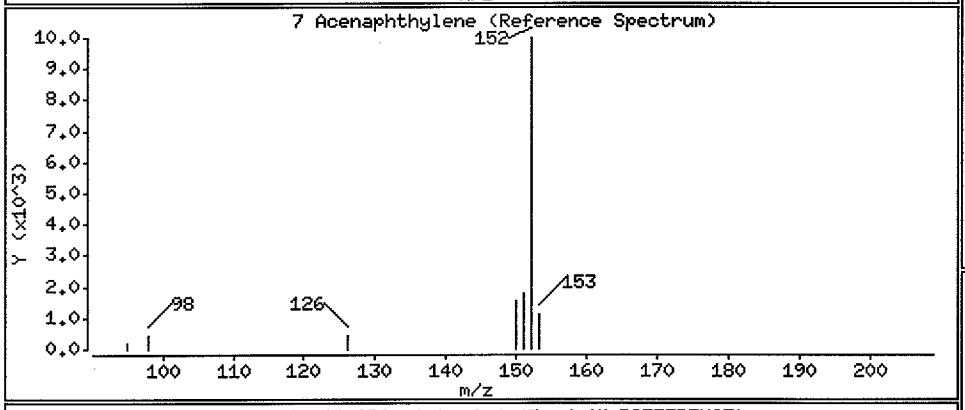
Column diameter: 0.25

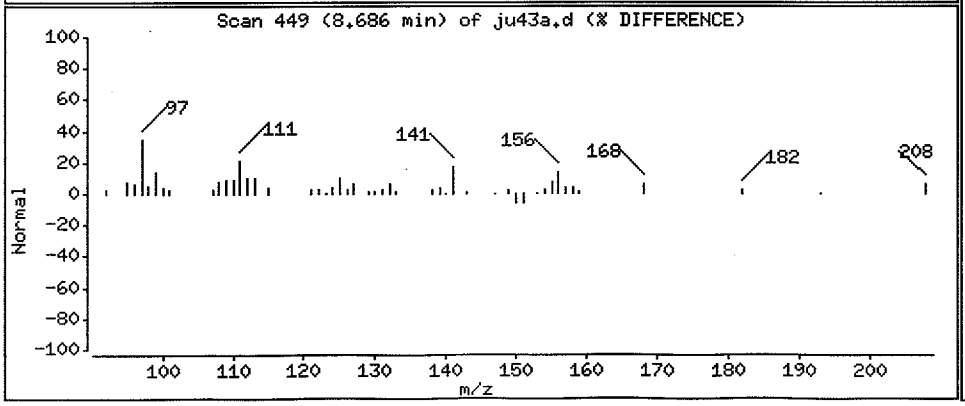
7 Acenaphthylene

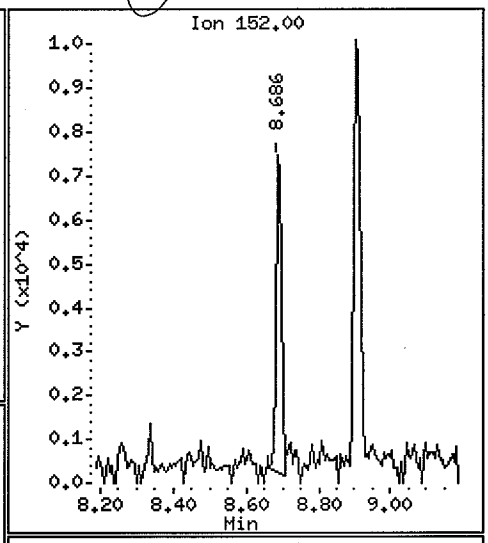
Concentration: 27.46 ug/kg (S) LR

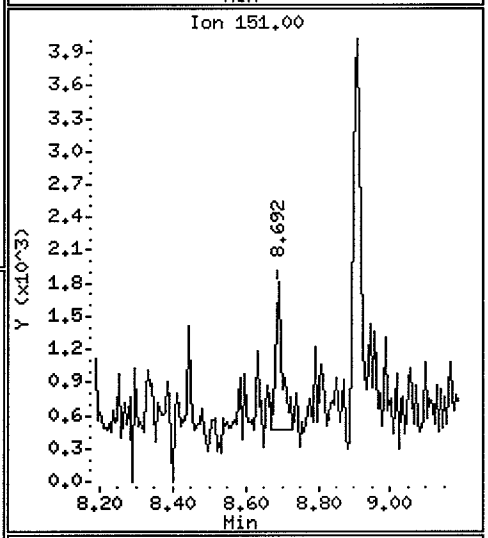


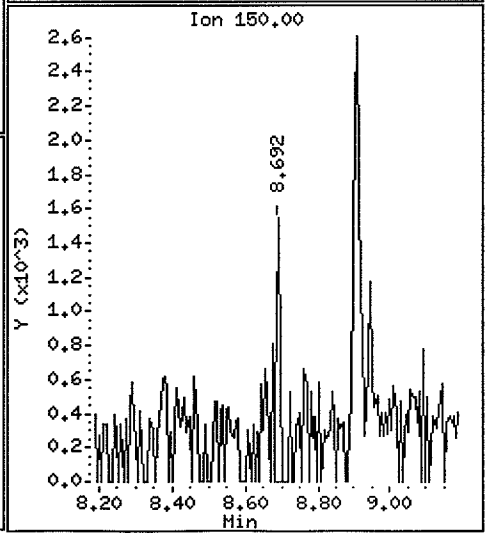












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

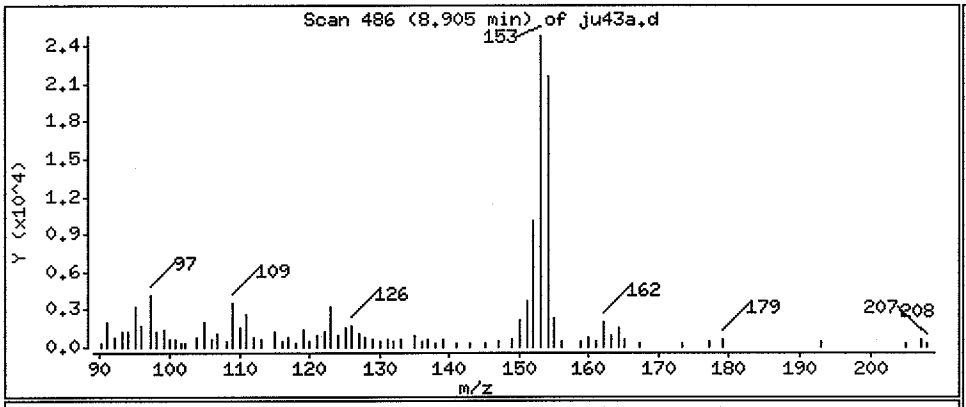
Operator: VTS

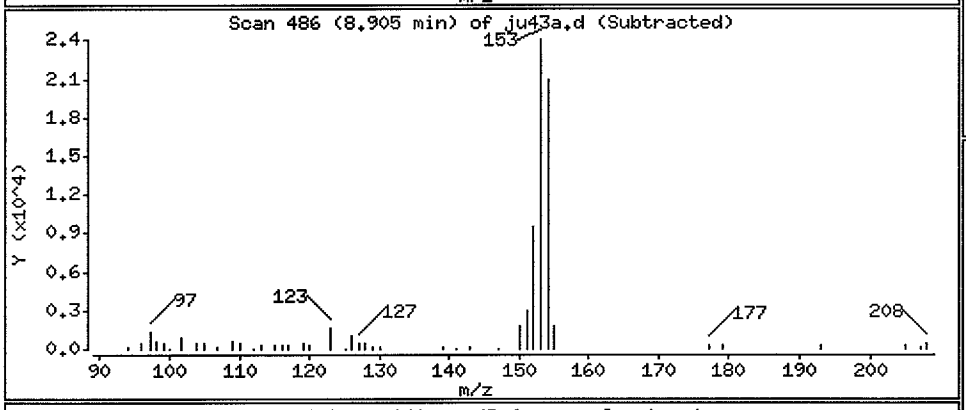
Column phase: ZB-5

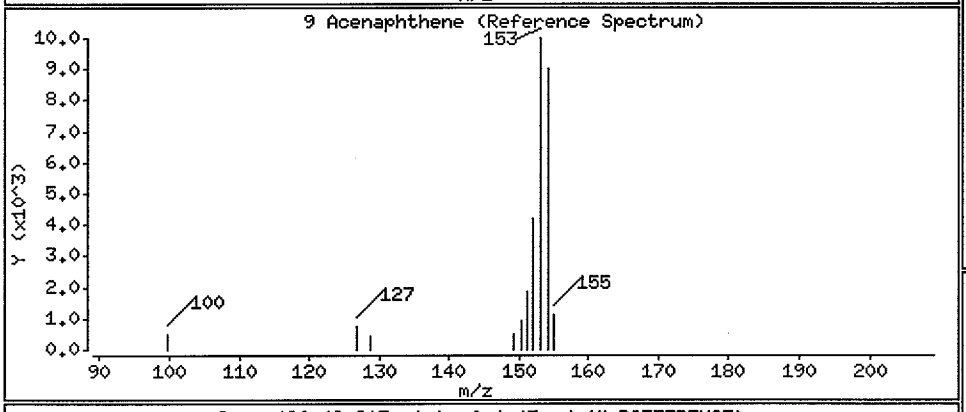
Column diameter: 0.25

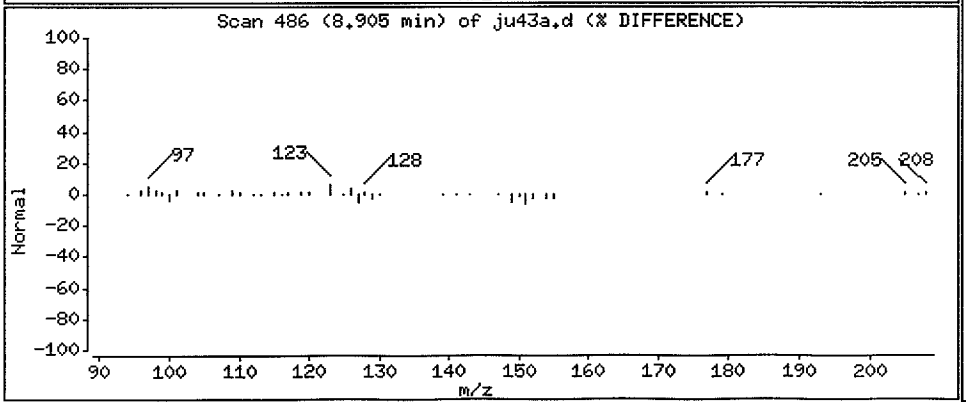
9 Acenaphthene

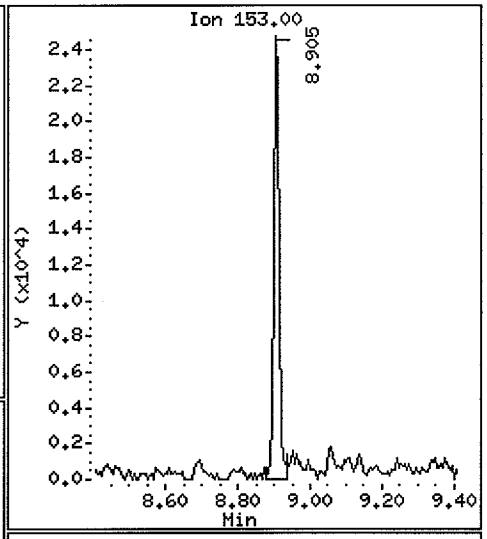
Concentration: 151.3 ug/kg

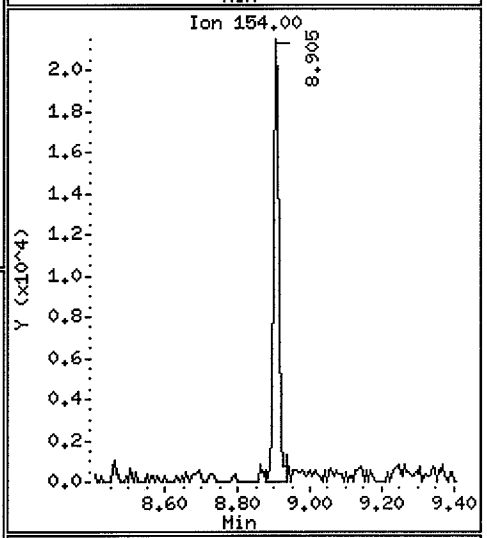


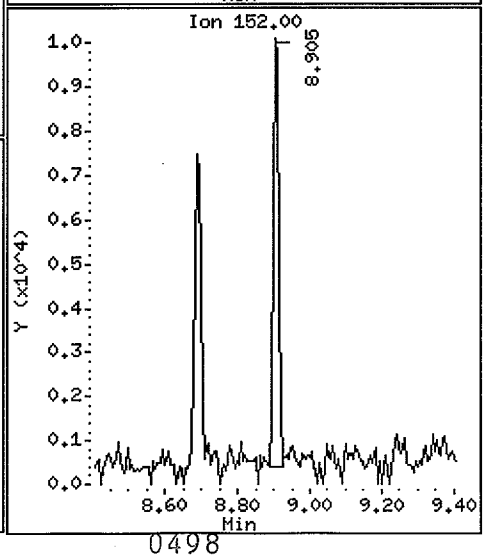












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

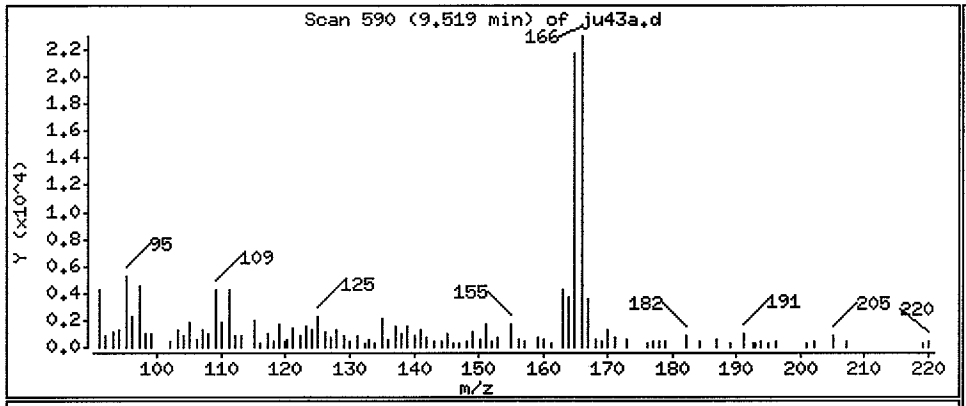
Operator: VTS

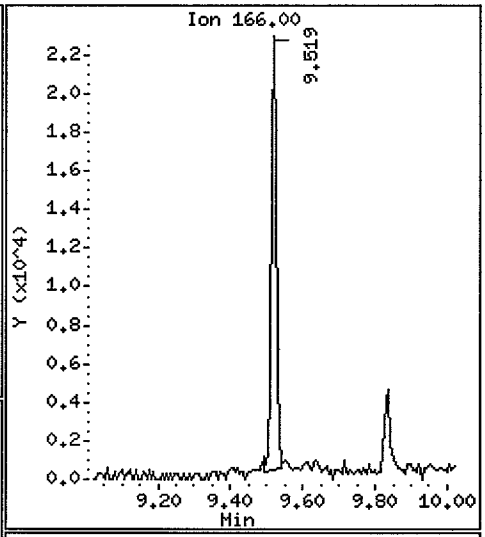
Column phase: ZB-5

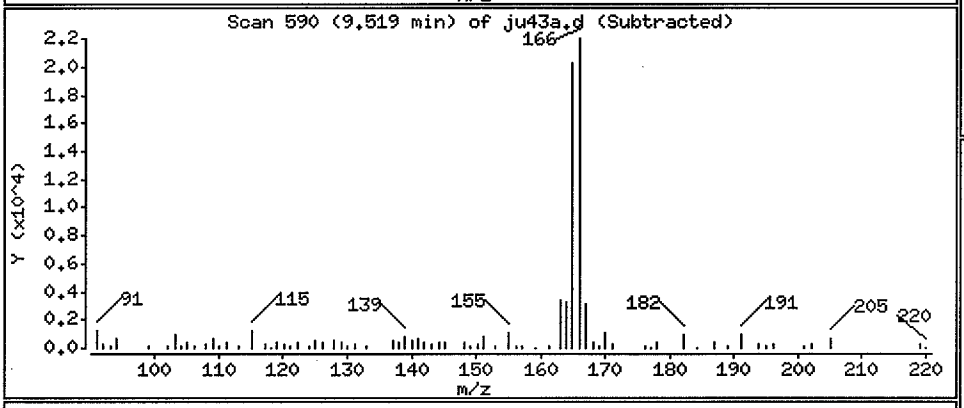
Column diameter: 0.25

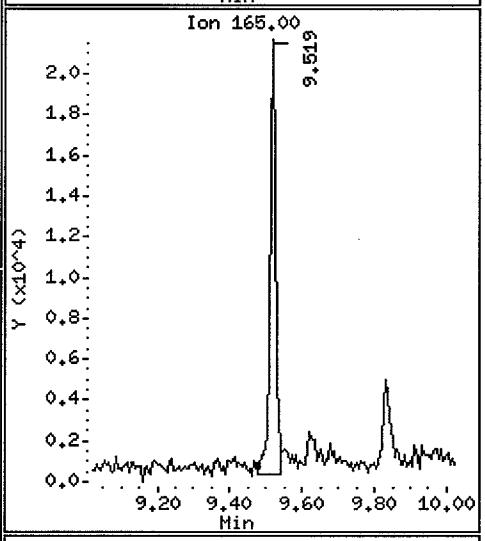
11 Fluorene

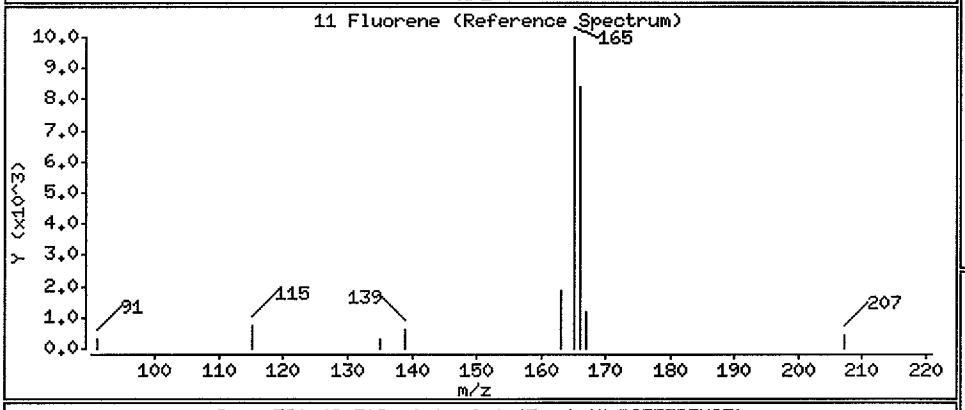
Concentration: 120.8 ug/kg

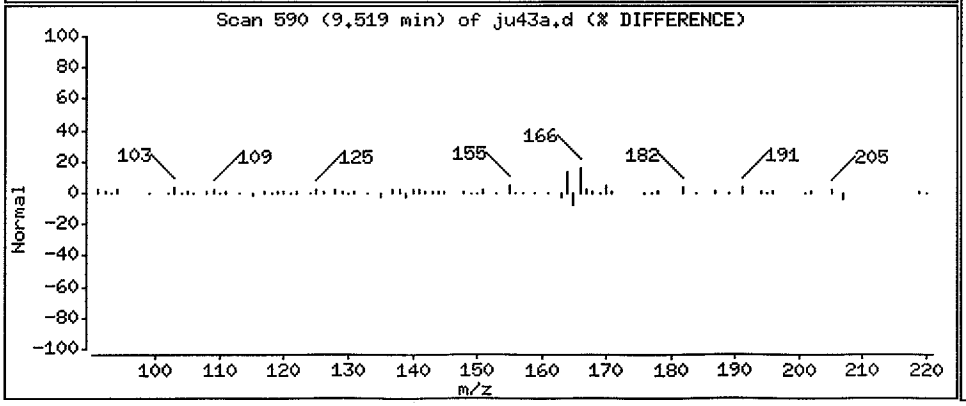


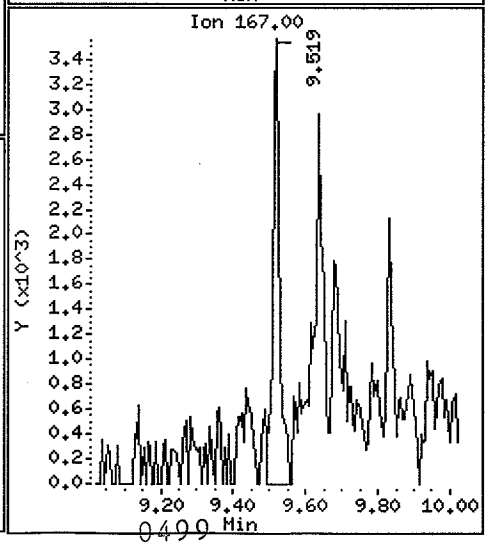












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

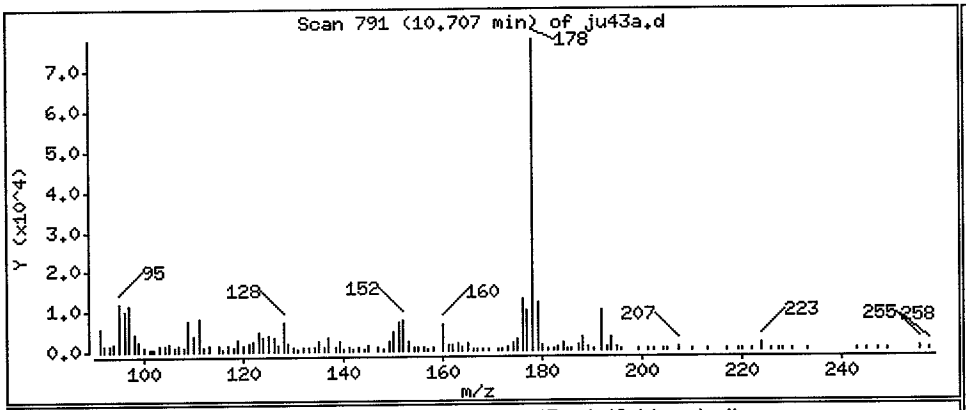
Operator: VTS

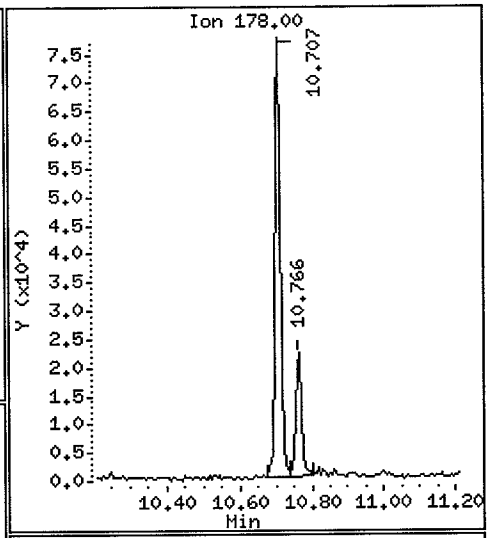
Column phase: ZB-5

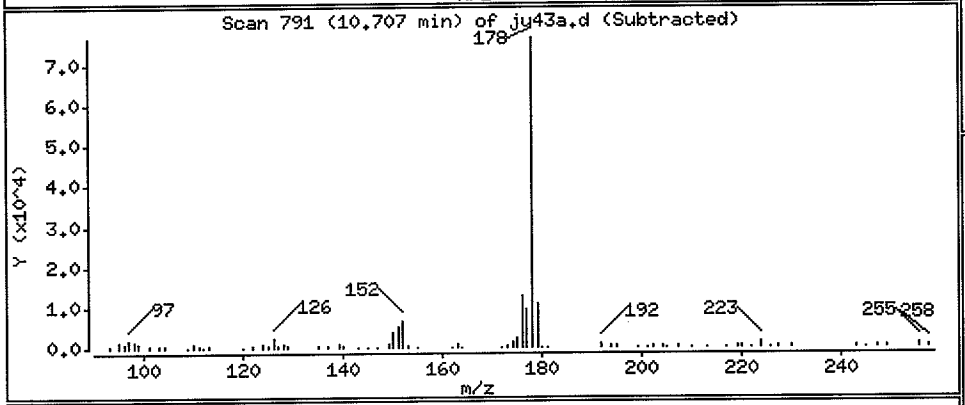
Column diameter: 0.25

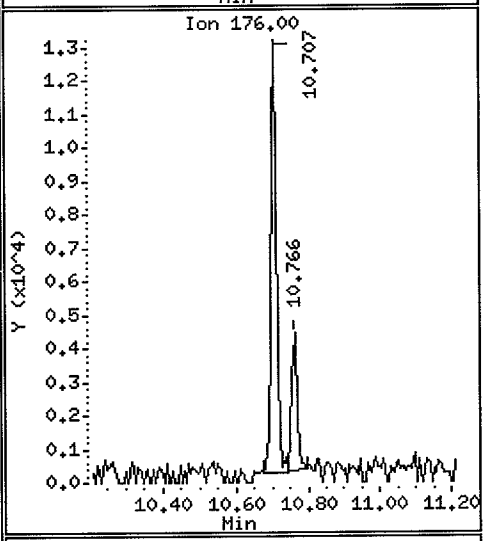
16 Phenanthrene

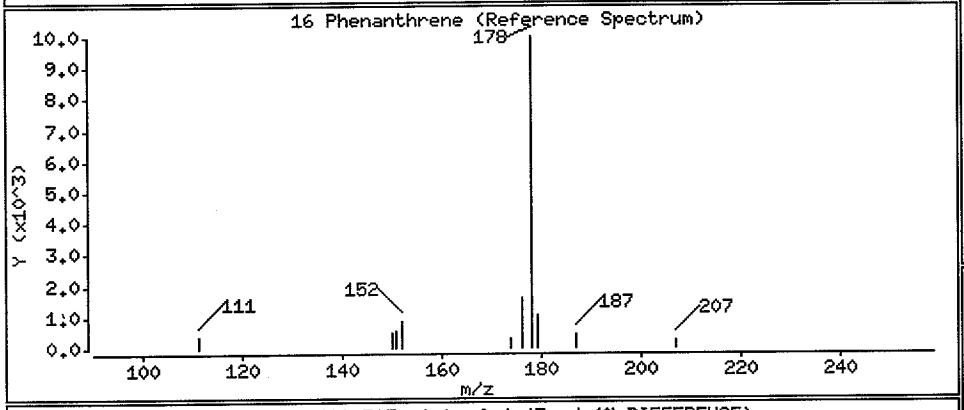
Concentration: 329.6 ug/kg

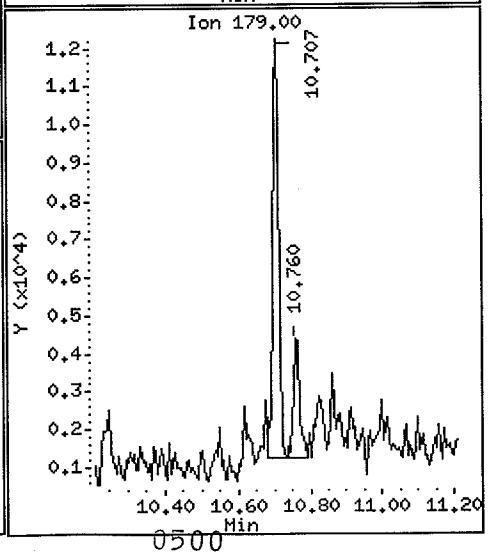


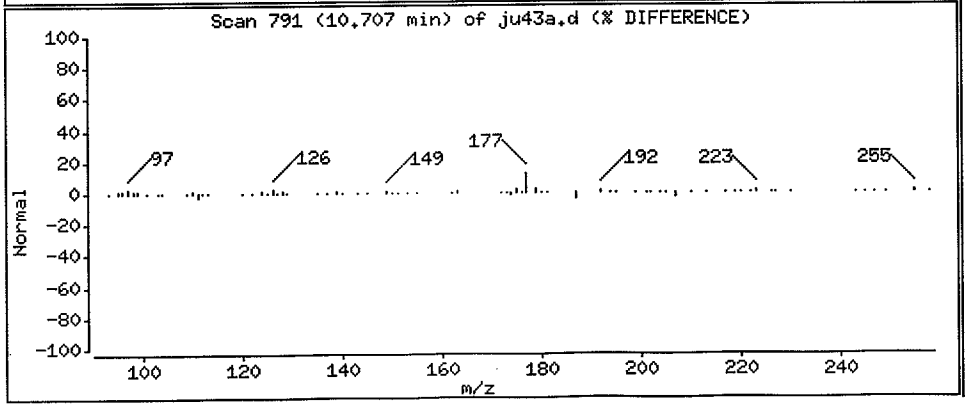












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

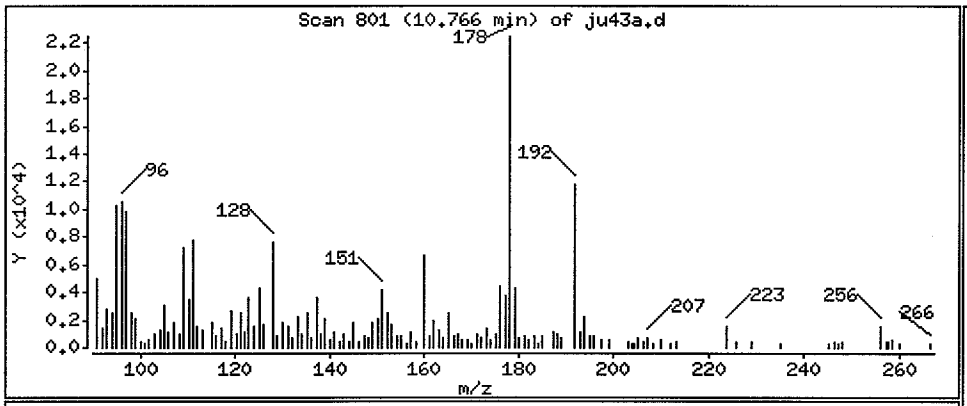
Operator: VTS

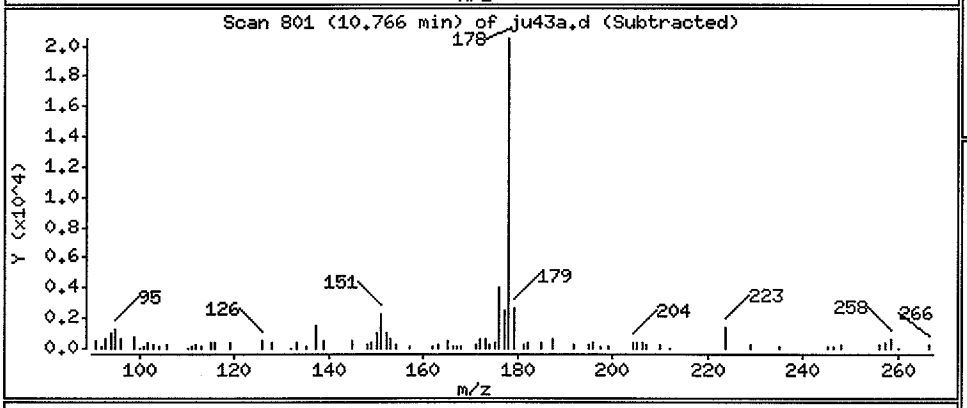
Column phase: ZB-5

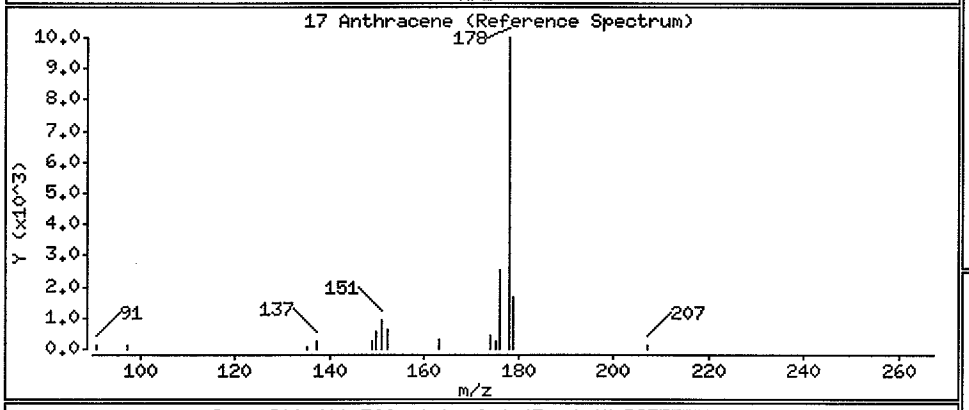
Column diameter: 0.25

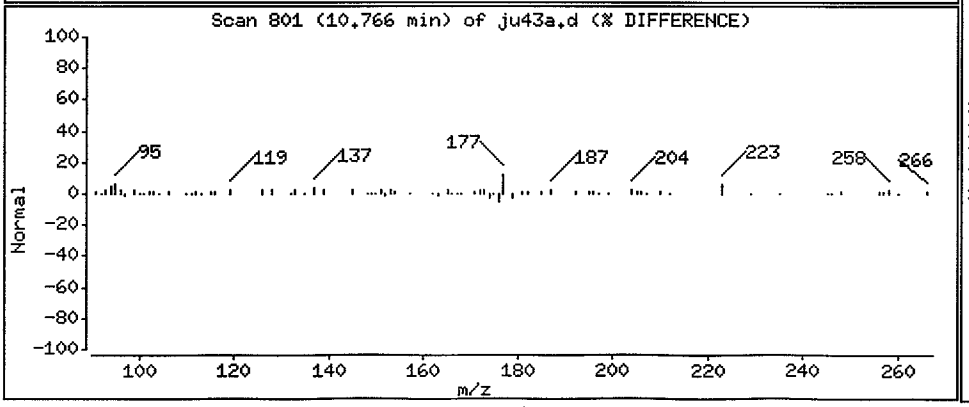
17 Anthracene

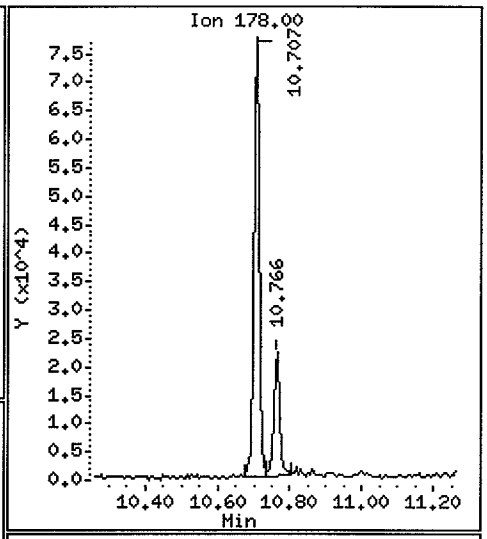
Concentration: 98.89 ug/kg

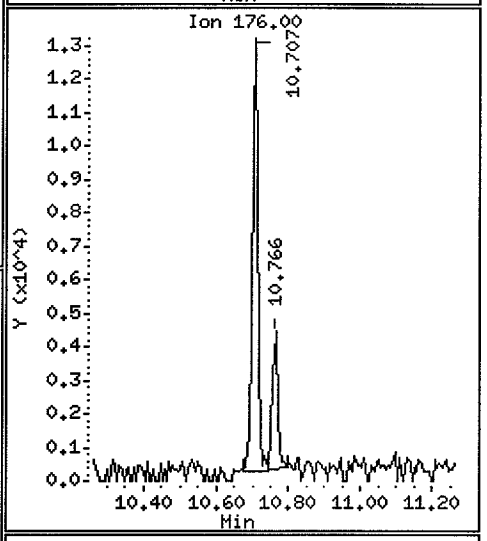


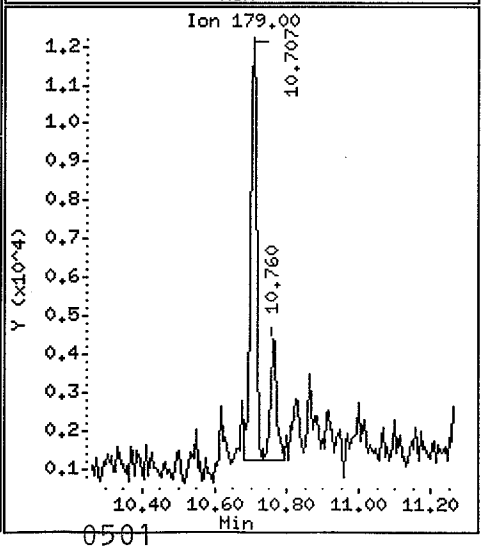












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

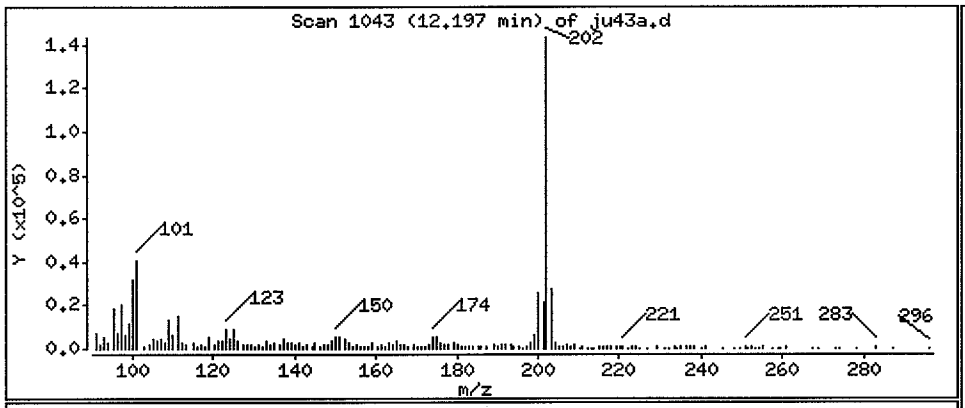
Operator: VTS

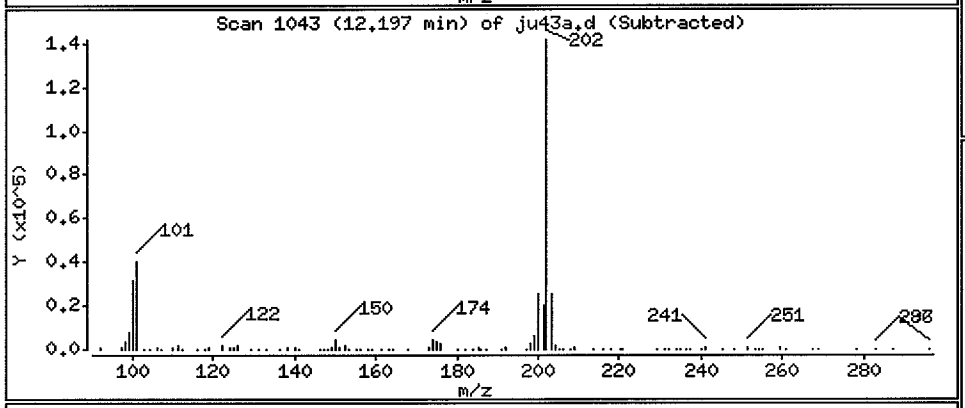
Column phase: ZB-5

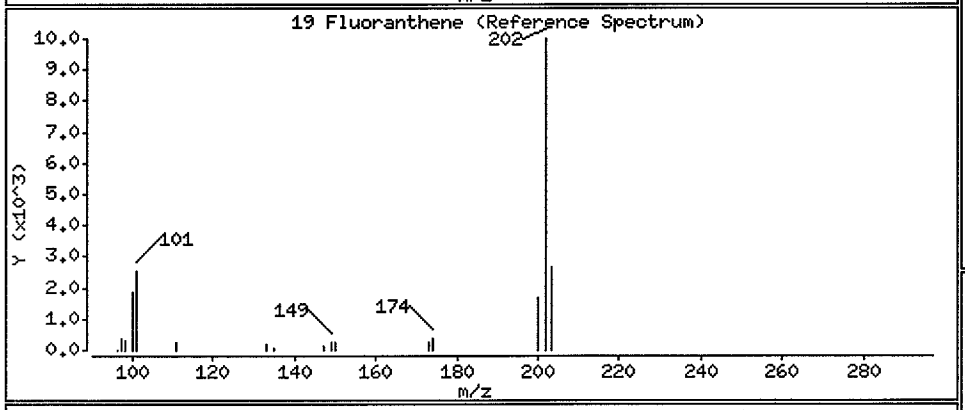
Column diameter: 0.25

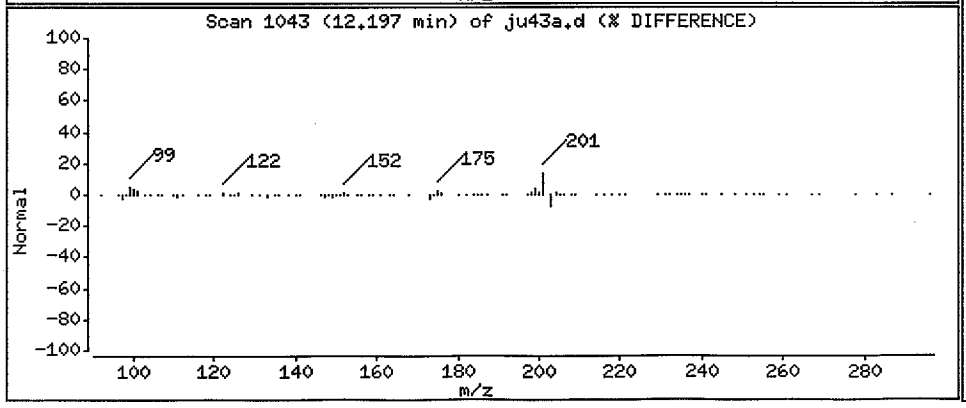
19 Fluoranthene

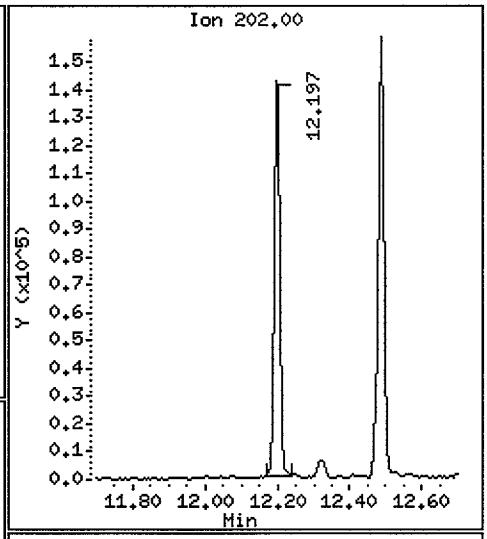
Concentration: 726.9 ug/kg

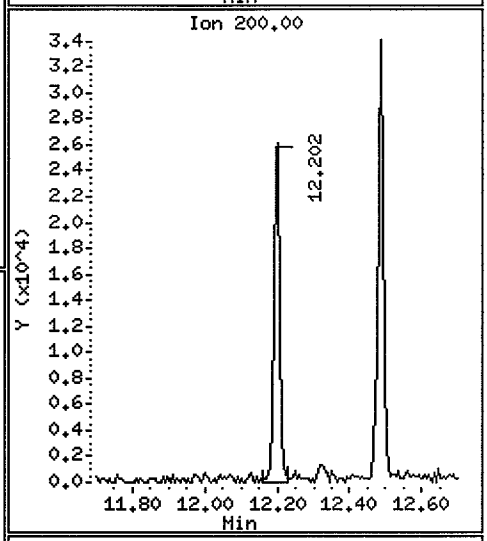


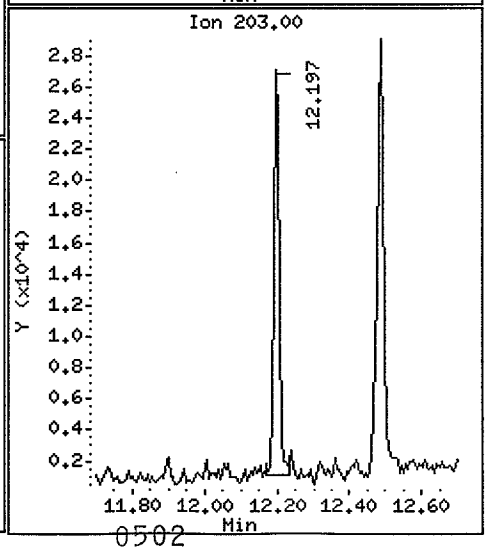












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

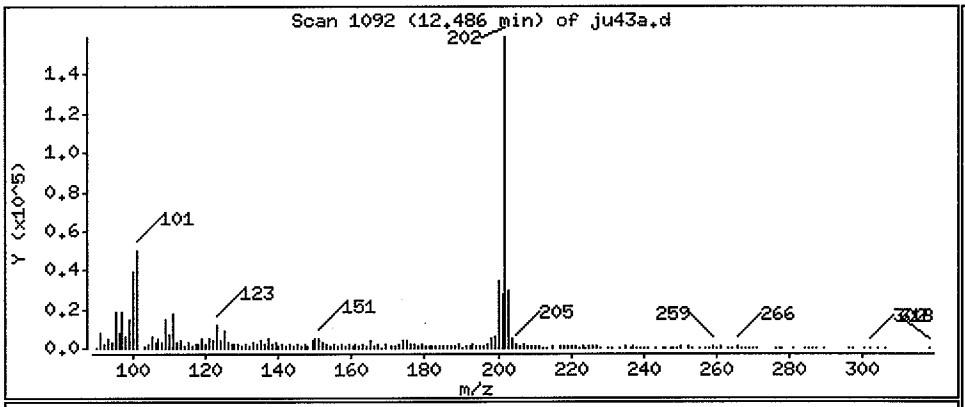
Operator: VTS

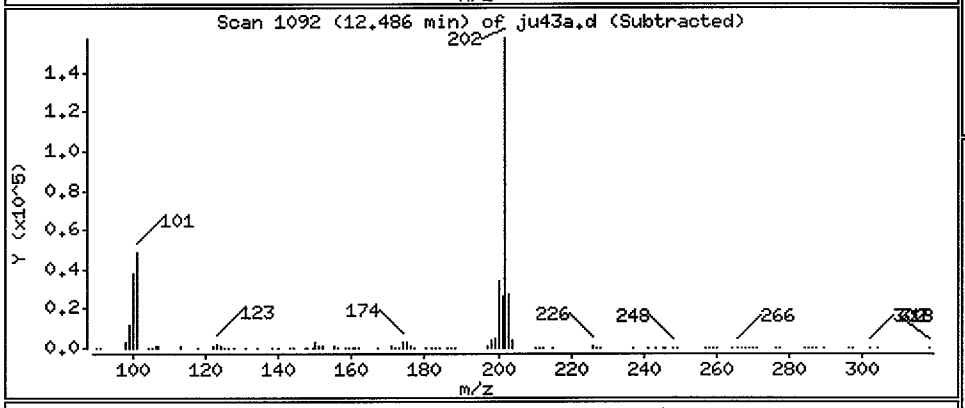
Column phase: ZB-5

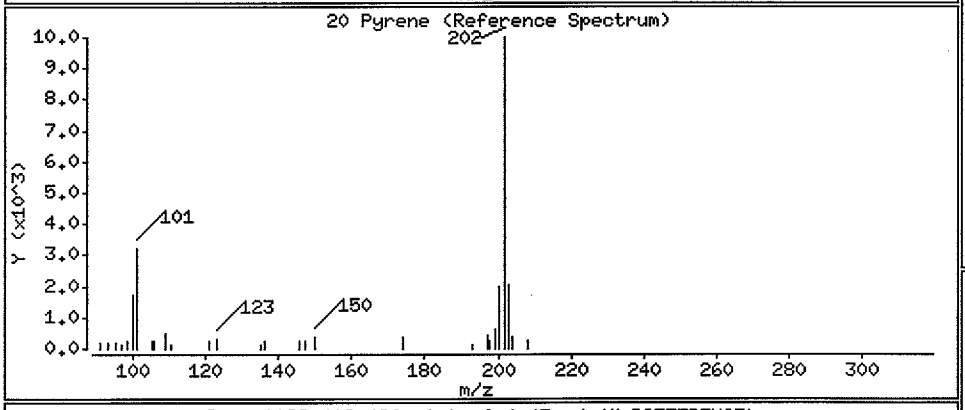
Column diameter: 0.25

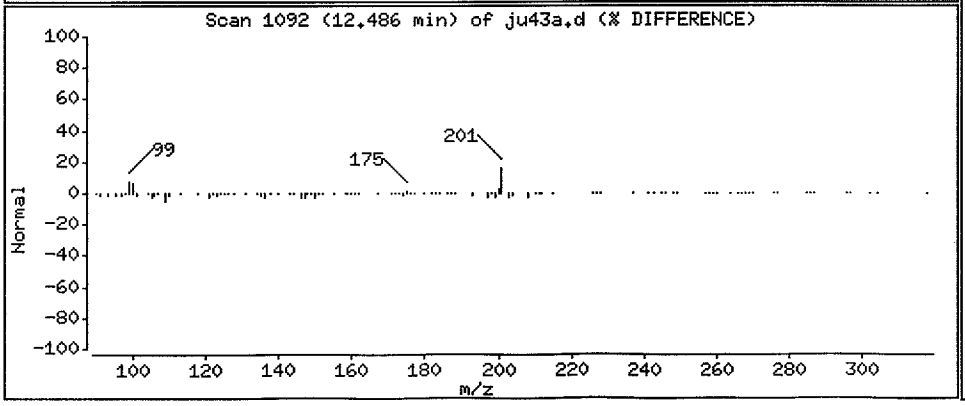
20 Pyrene

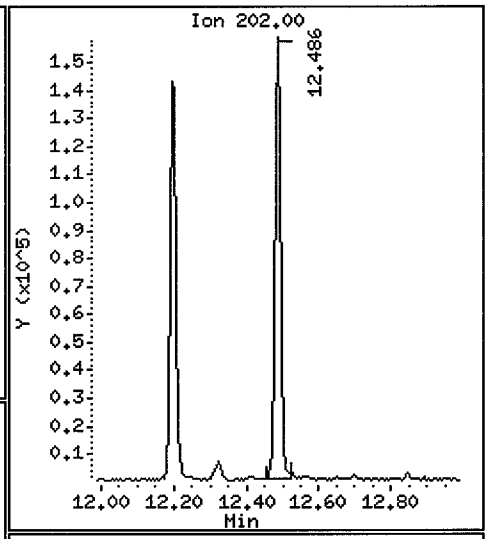
Concentration: 710.3 ug/kg

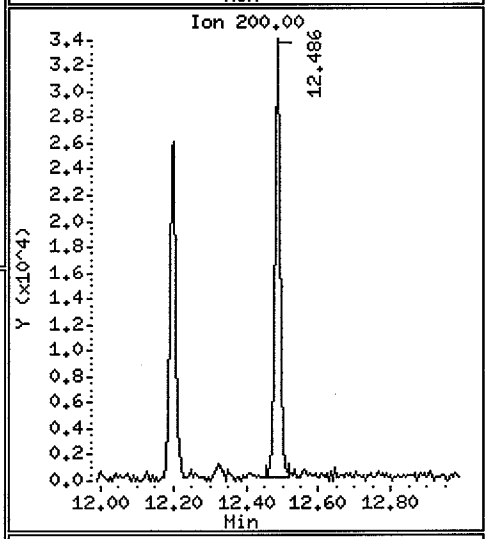


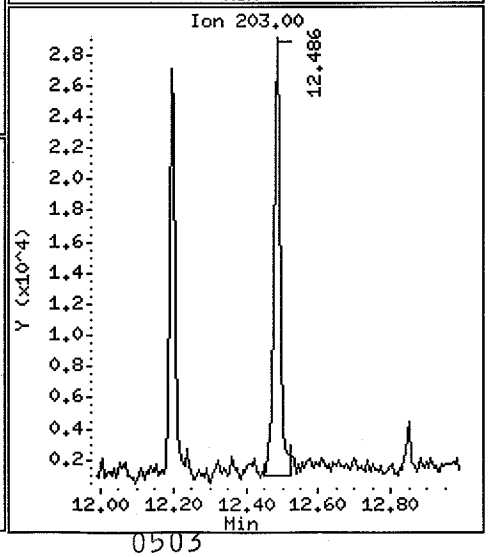












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

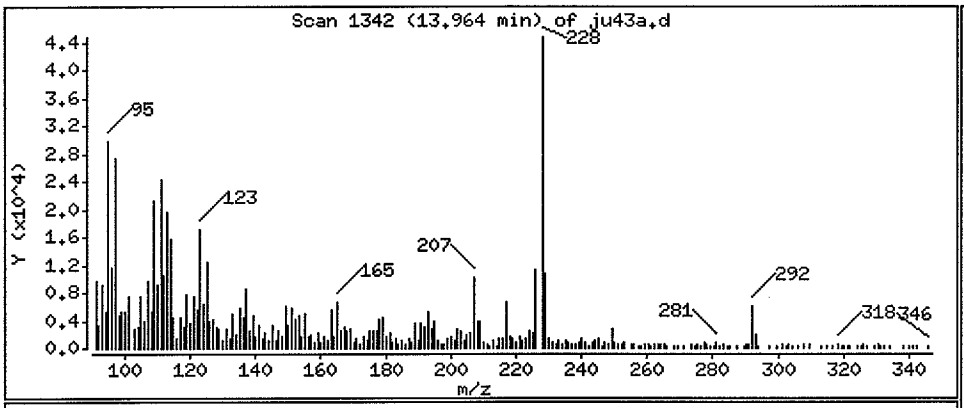
Operator: VTS

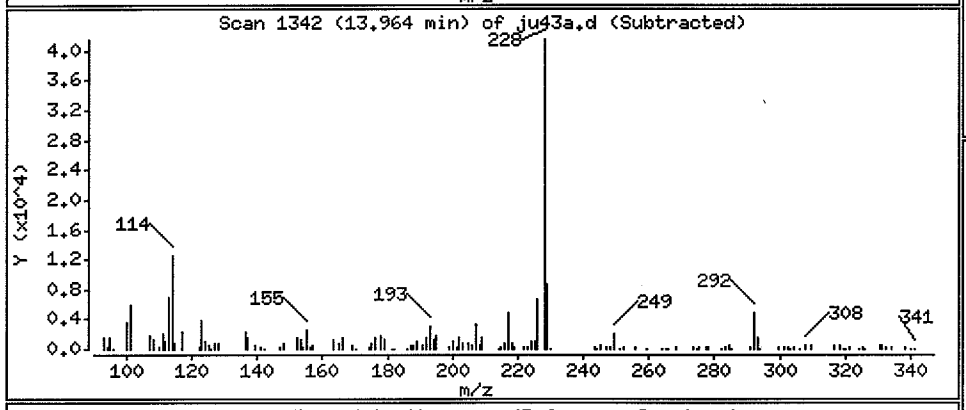
Column phase: ZB-5

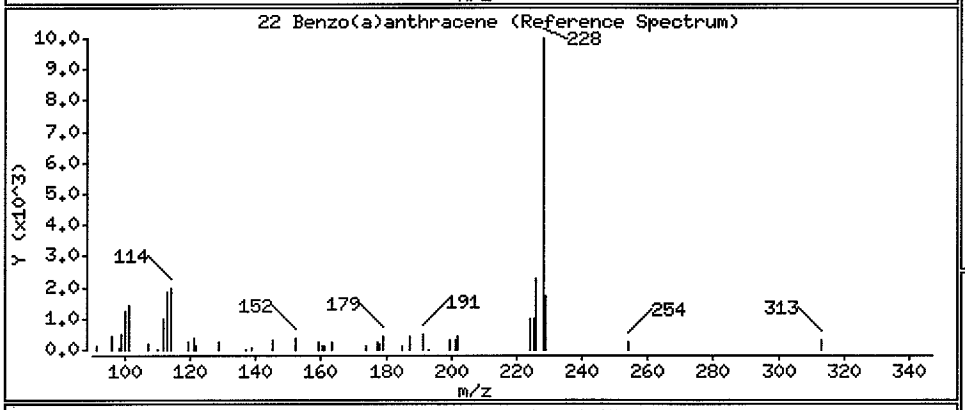
Column diameter: 0.25

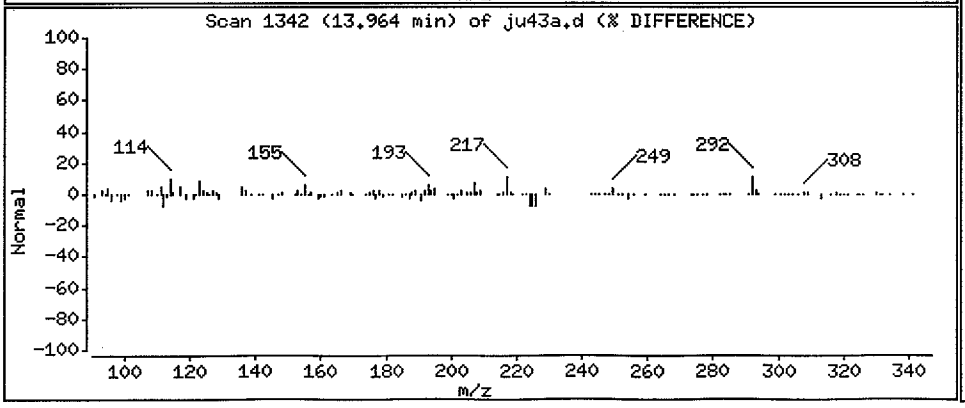
22 Benzo(a)anthracene

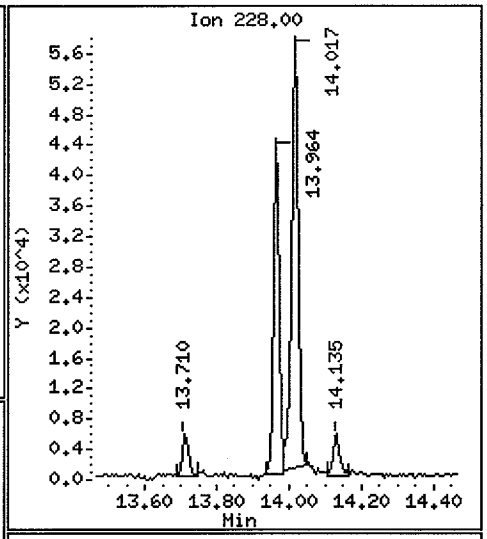
Concentration: 235.1 ug/kg

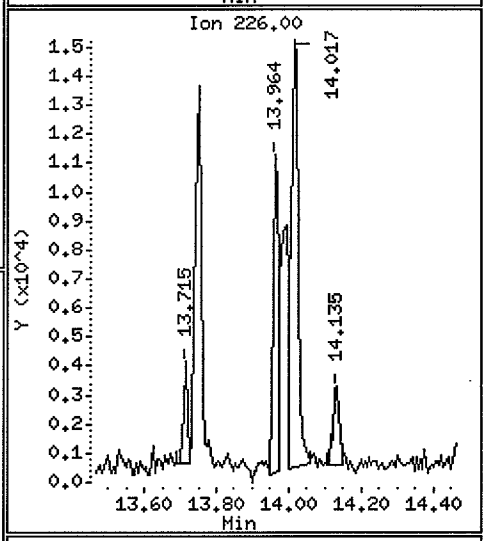


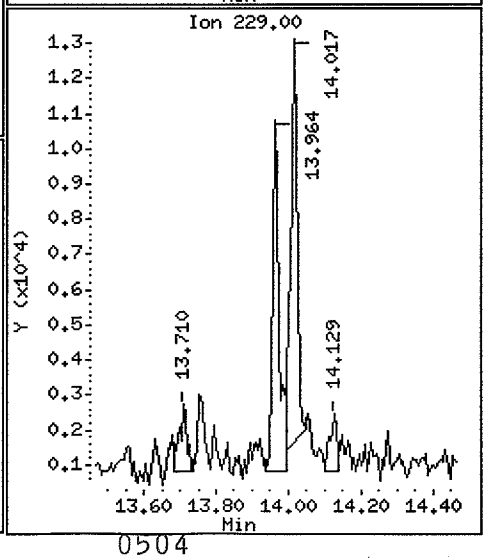












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

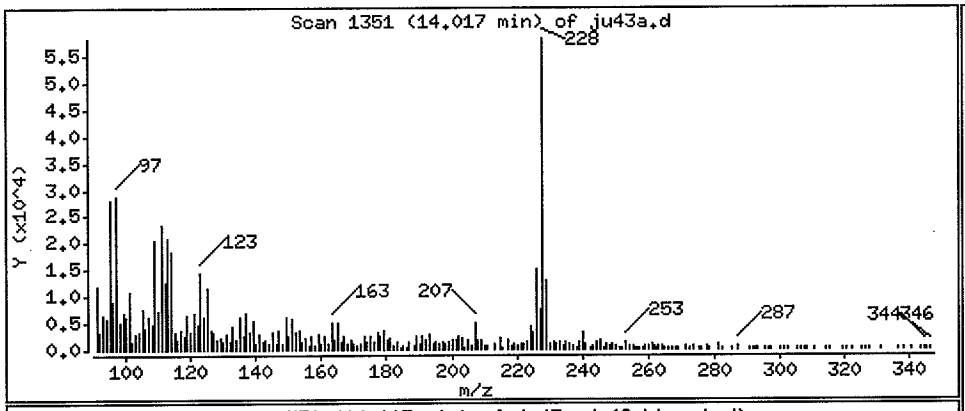
Operator: VTS

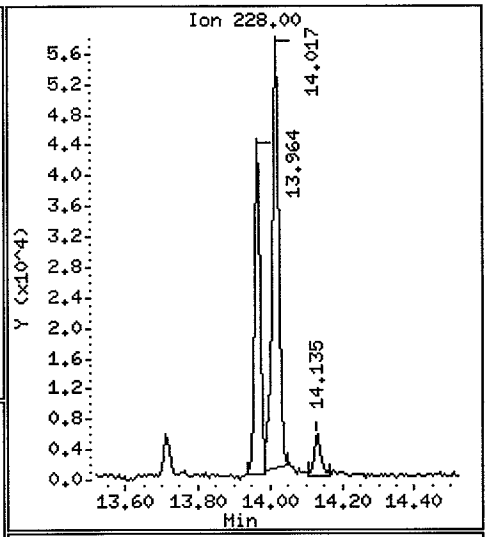
Column phase: ZB-5

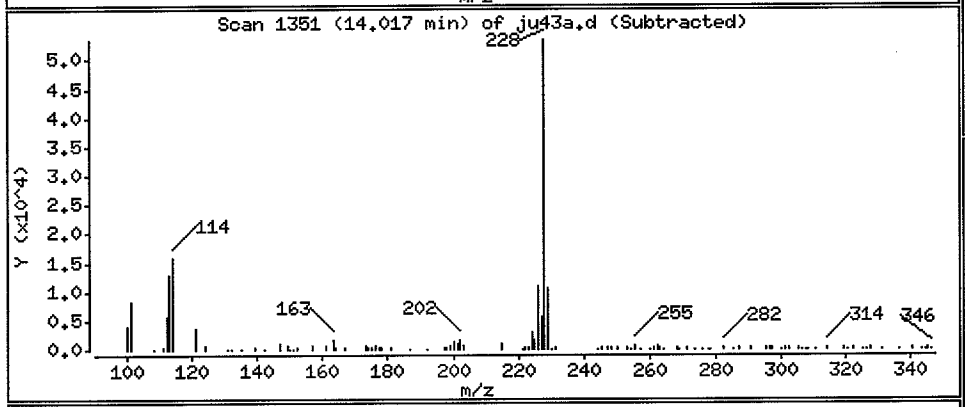
Column diameter: 0.25

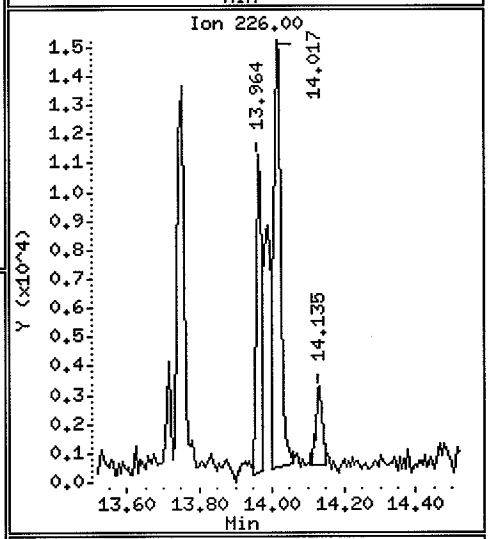
24 Chrysene

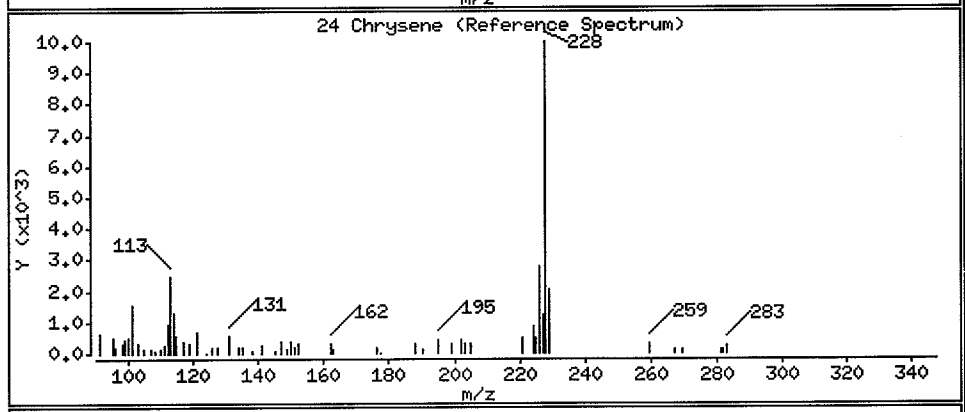
Concentration: 368.4 ug/kg

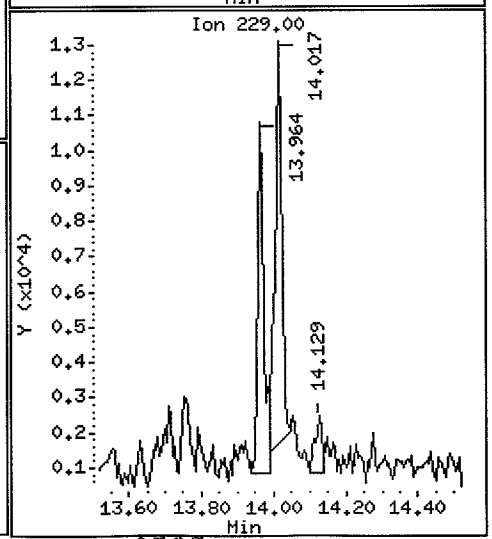


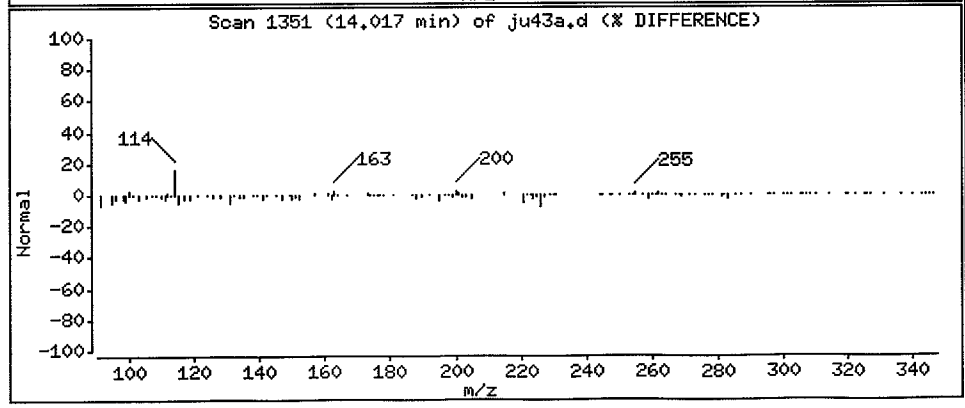












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

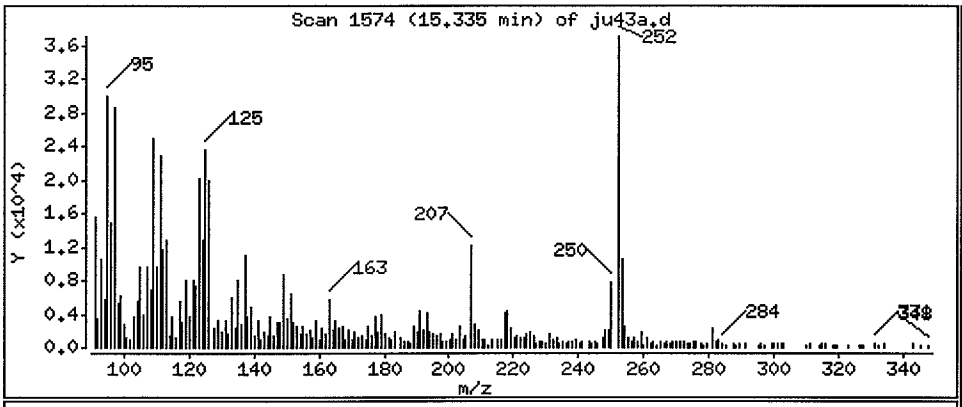
Operator: VTS

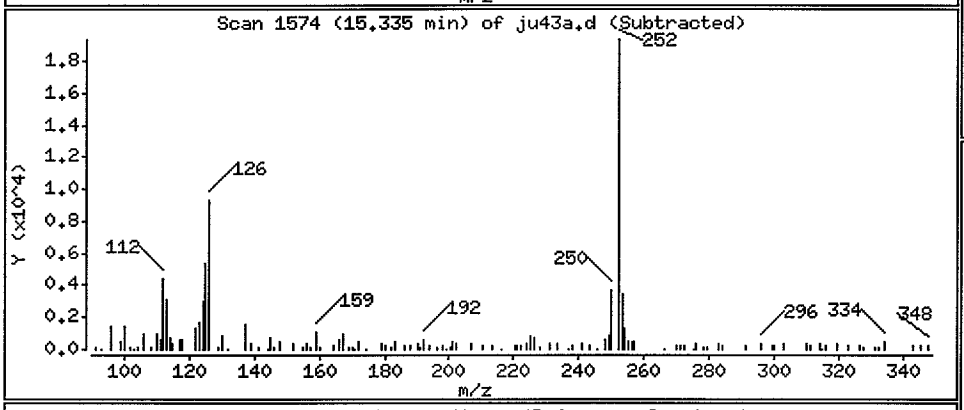
Column phase: ZB-5

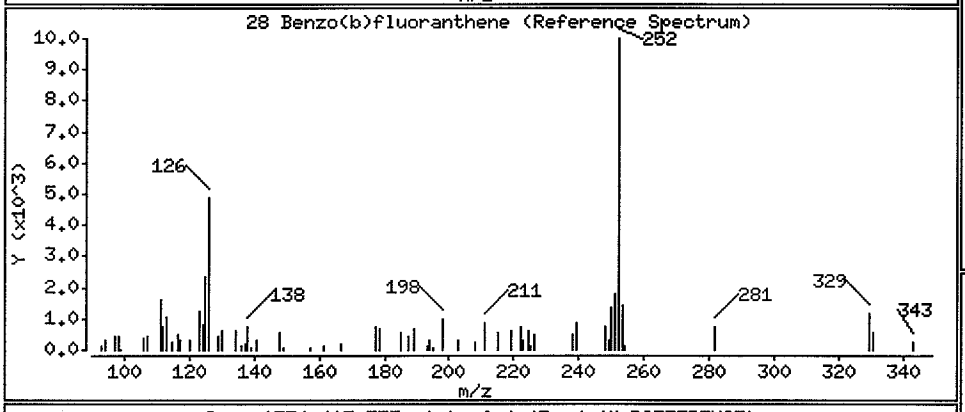
Column diameter: 0.25

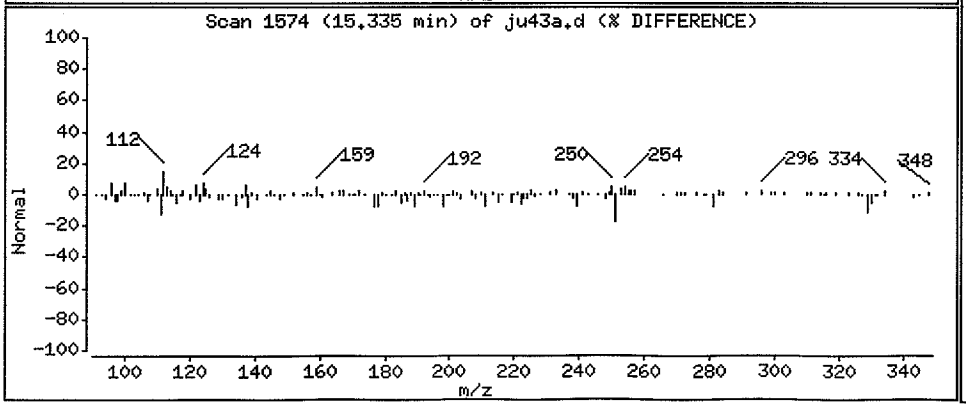
28 Benzo(b)fluoranthene

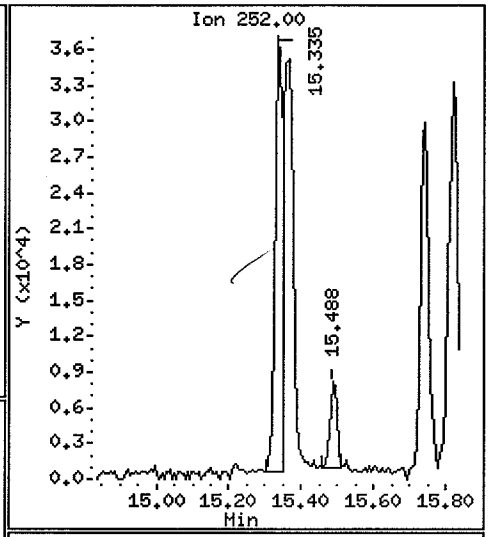
Concentration: 274.0 ug/kg

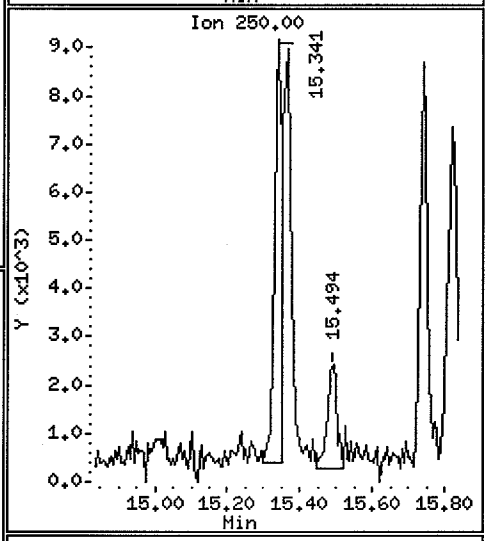


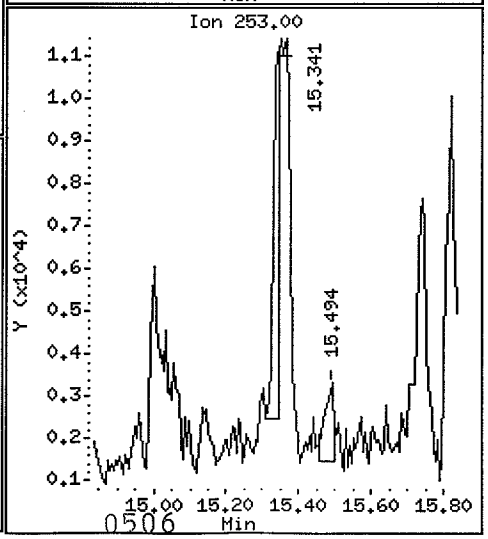












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

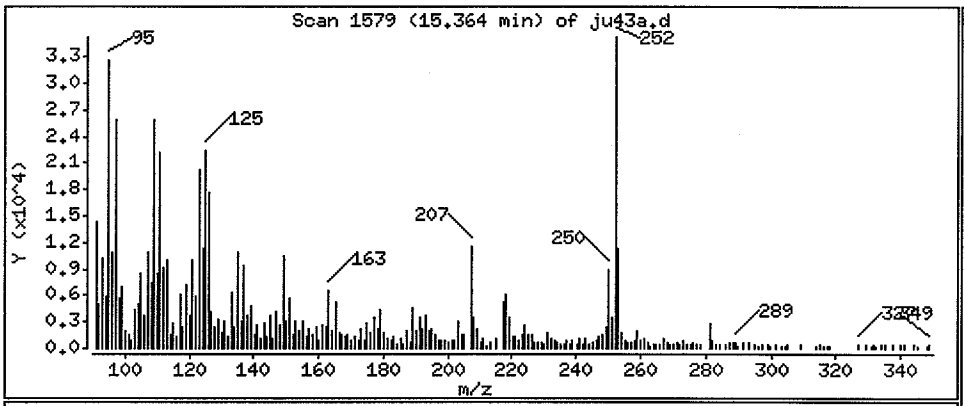
Operator: VTS

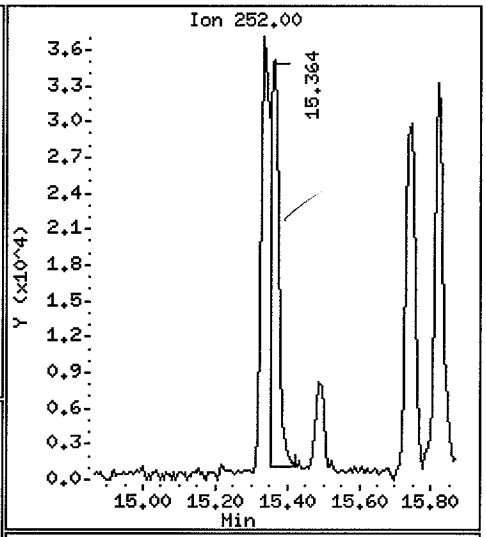
Column phase: ZB-5

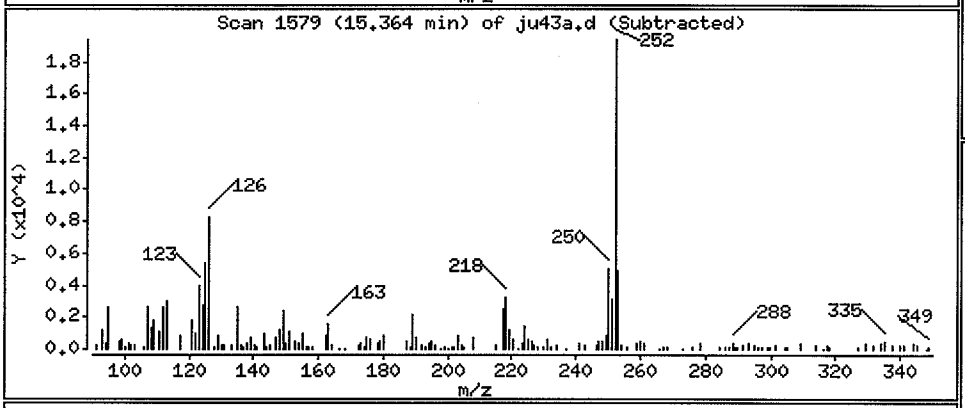
Column diameter: 0.25

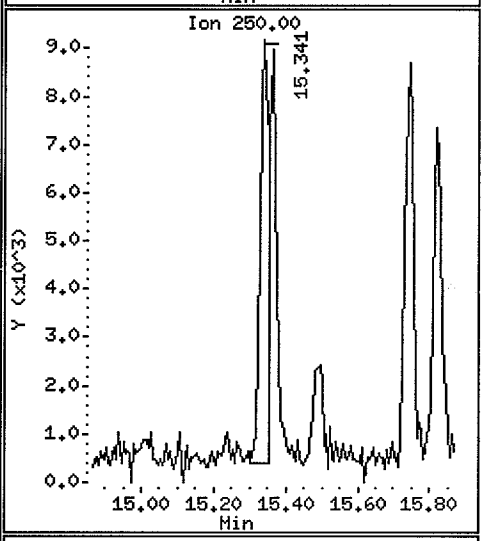
29 Benzo(k)fluoranthene

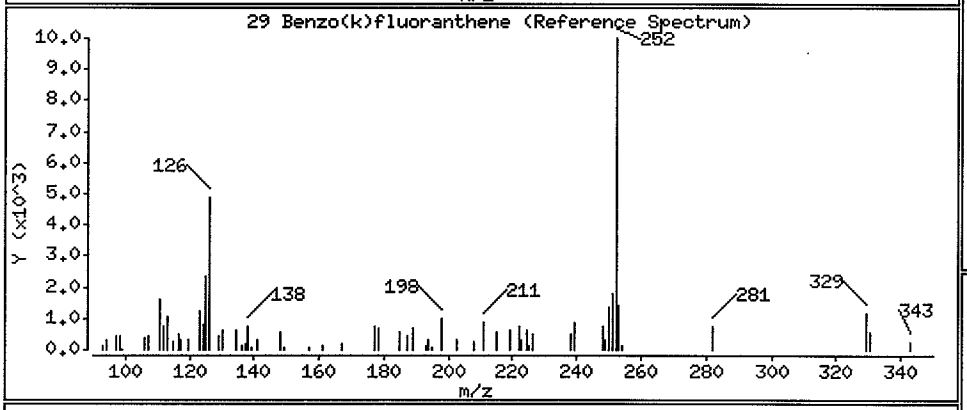
Concentration: 247.8 ug/kg

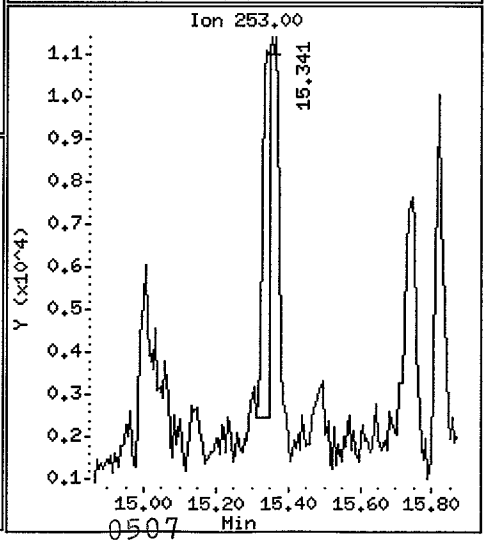


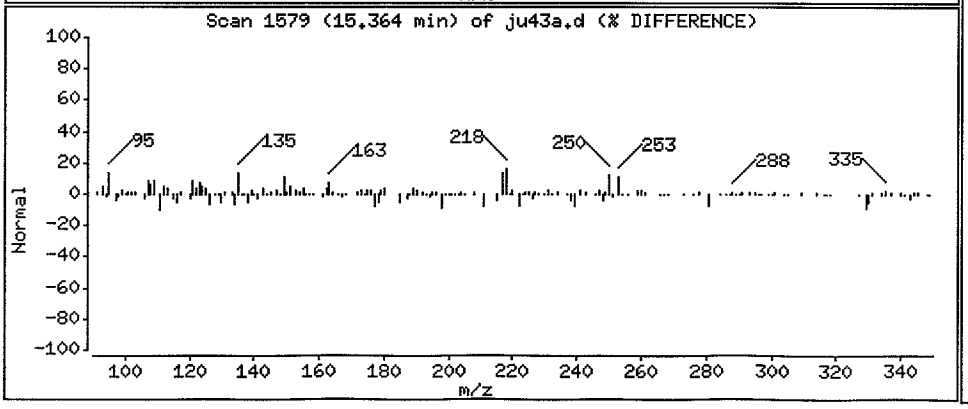












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

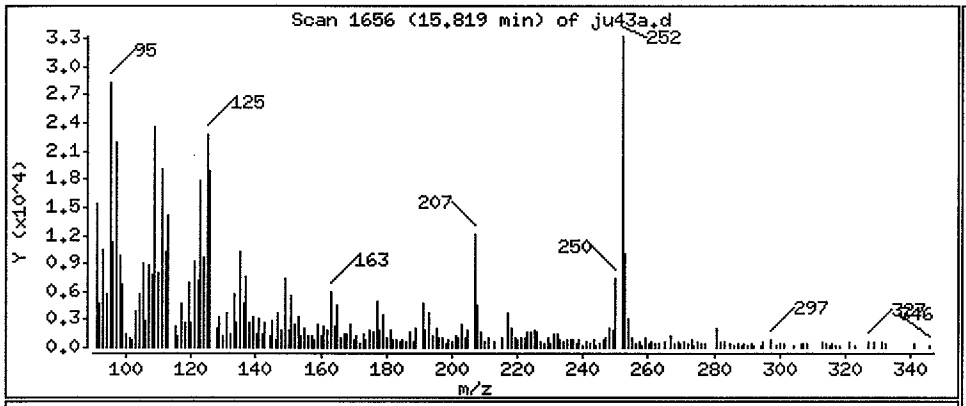
Operator: VTS

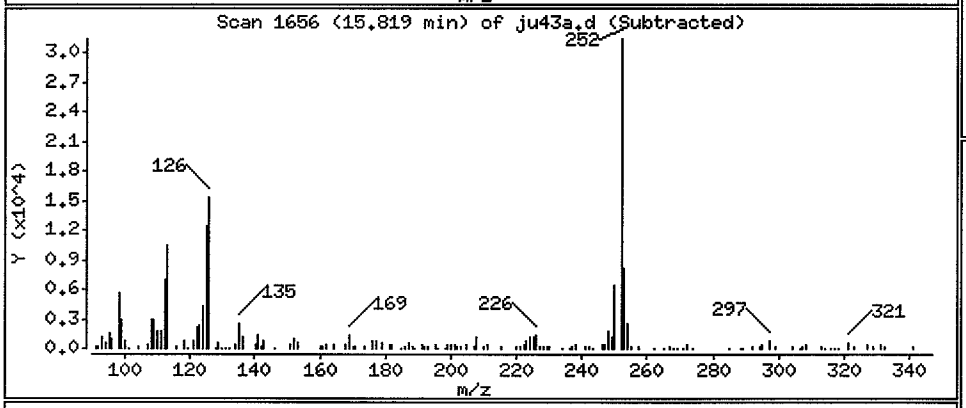
Column phase: ZB-5

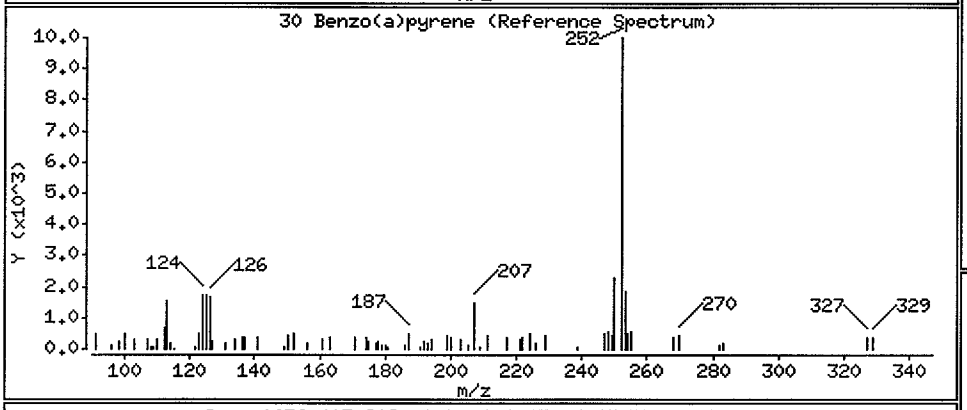
Column diameter: 0.25

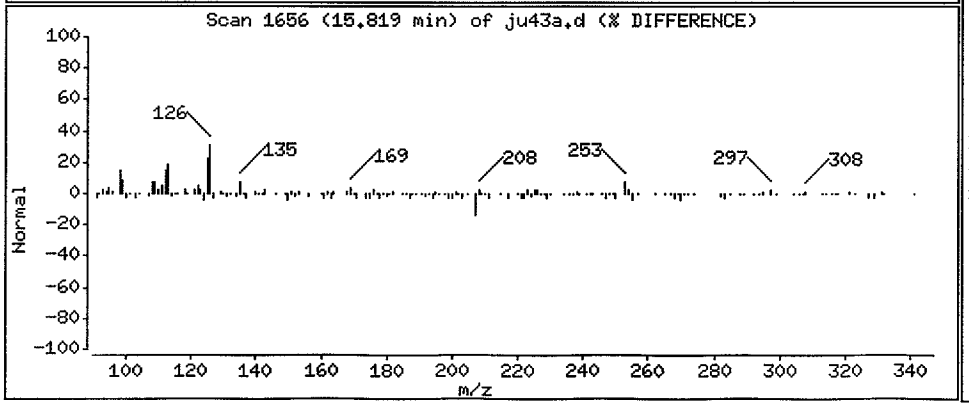
30 Benzo(a)pyrene

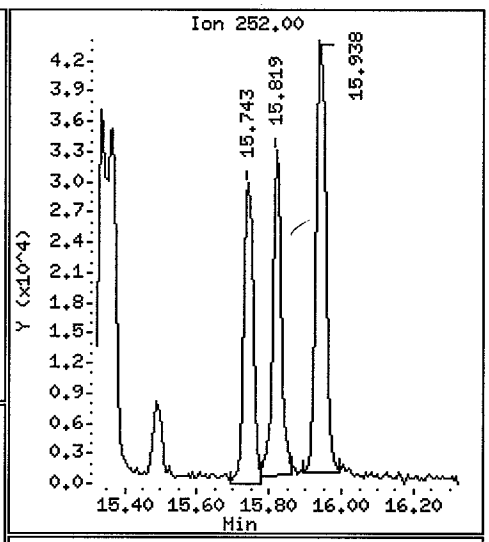
Concentration: 277.8 ug/kg

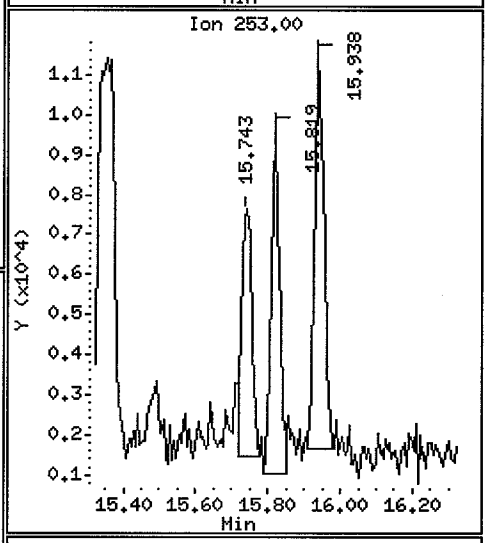


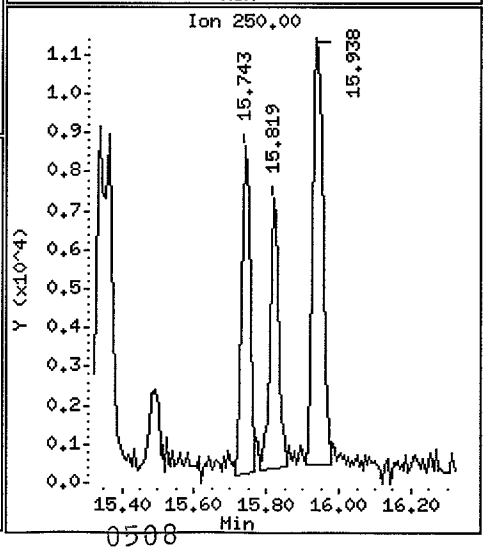












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

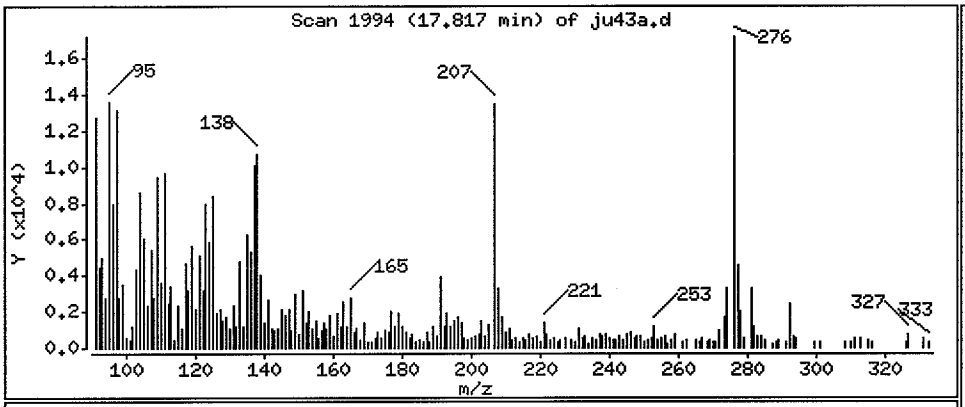
Operator: VTS

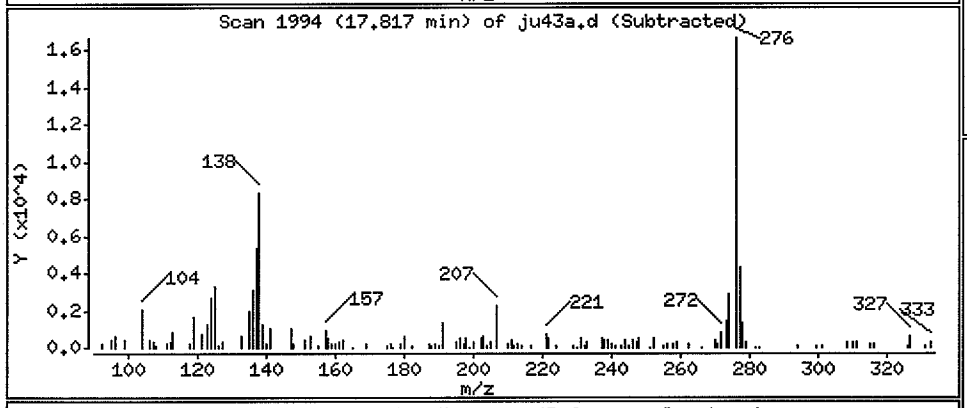
Column phase: ZB-5

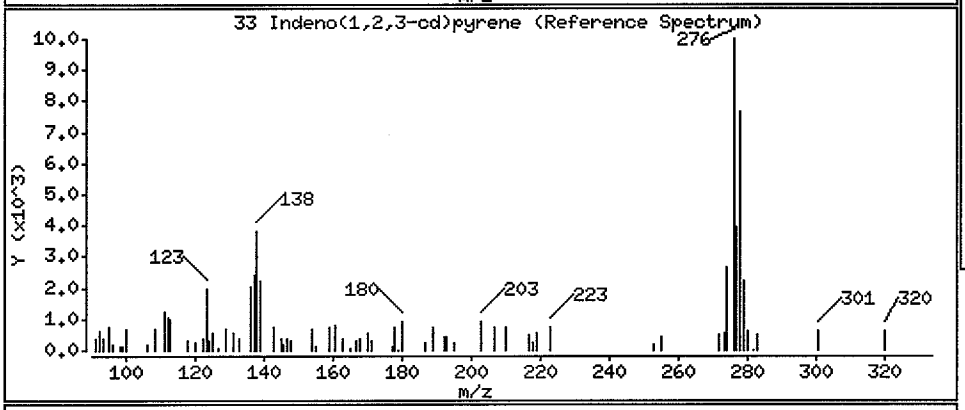
Column diameter: 0.25

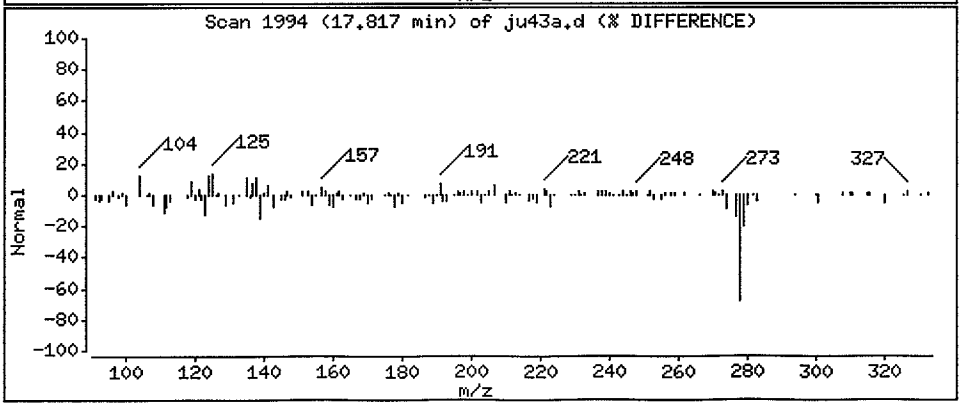
33 Indeno(1,2,3-cd)pyrene

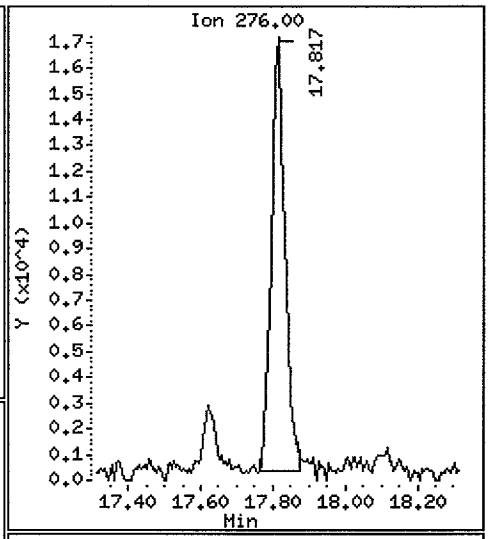
Concentration: 204.3 ug/kg

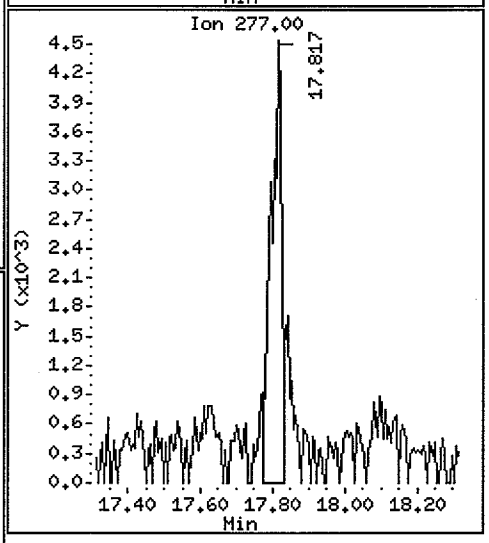












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

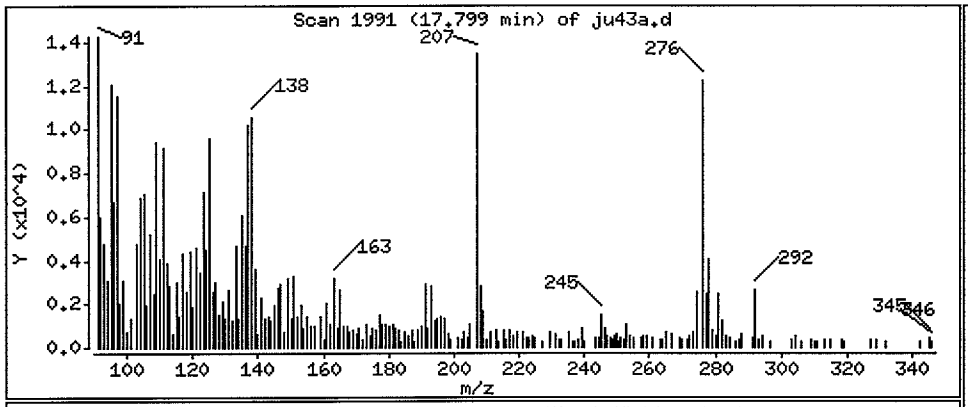
Operator: VTS

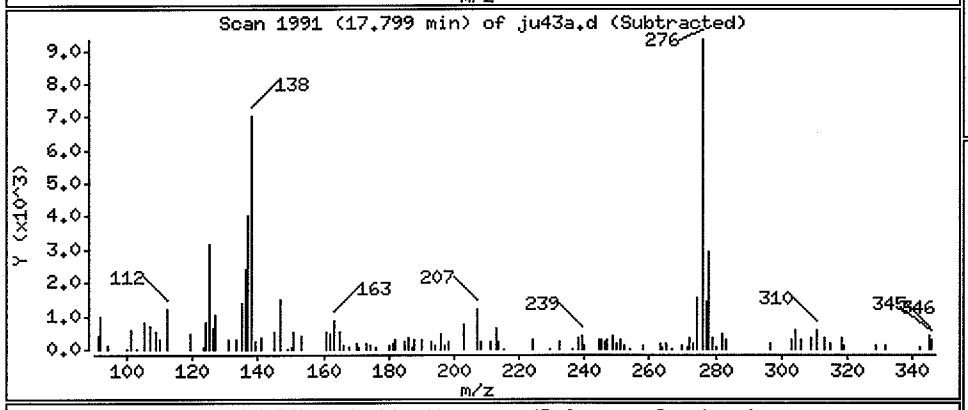
Column phase: ZB-5

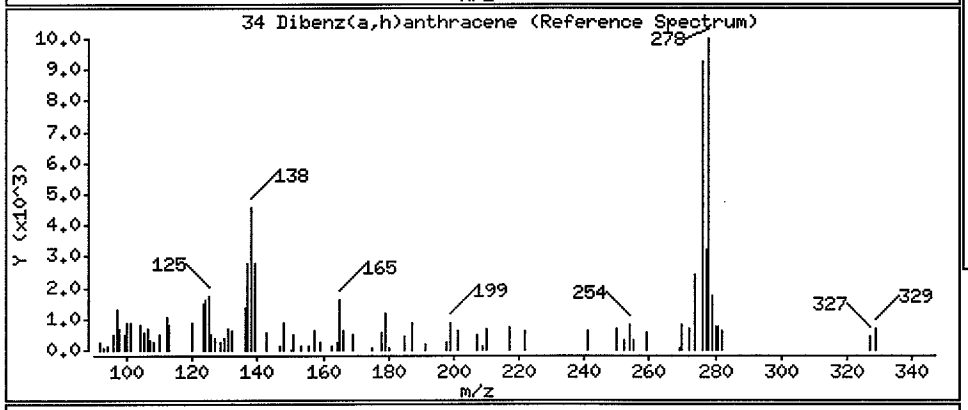
Column diameter: 0.25

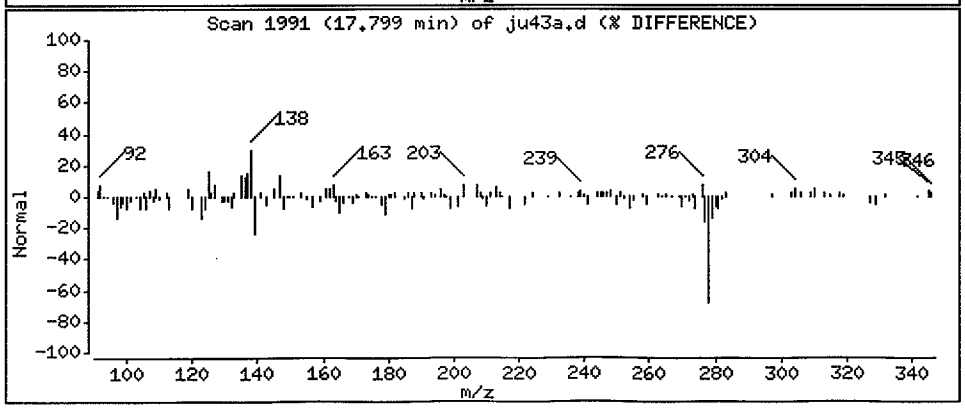
34 Dibenz(a,h)anthracene

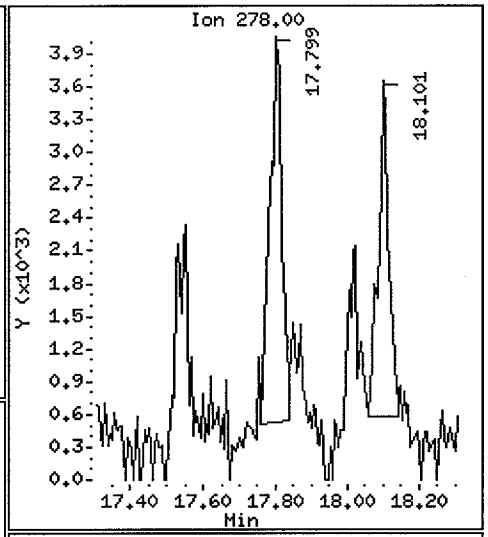
Concentration: 47.35 ug/kg

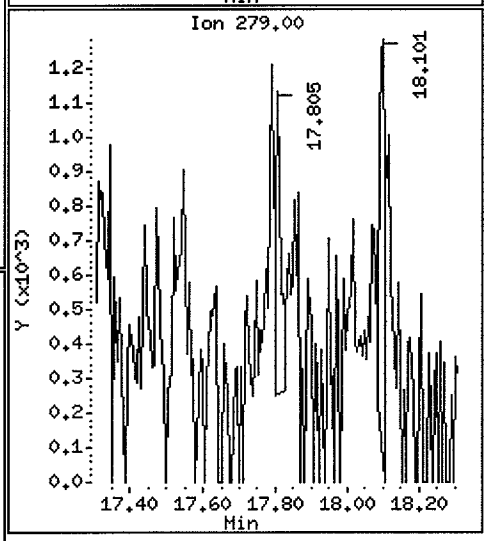












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

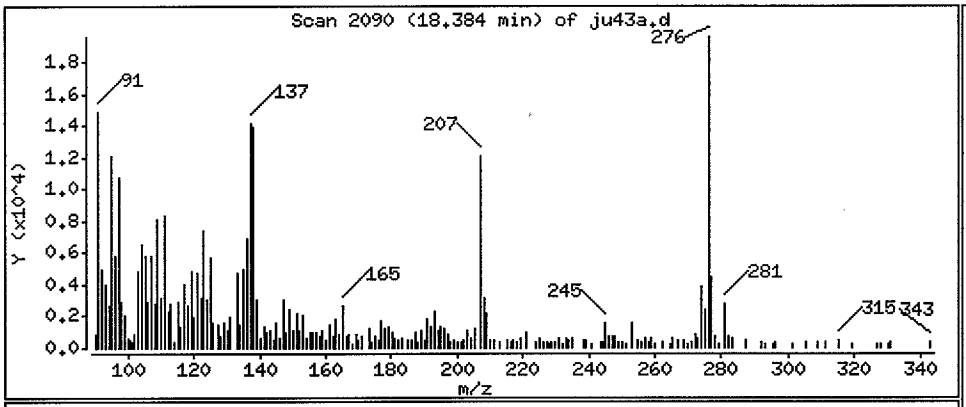
Operator: VTS

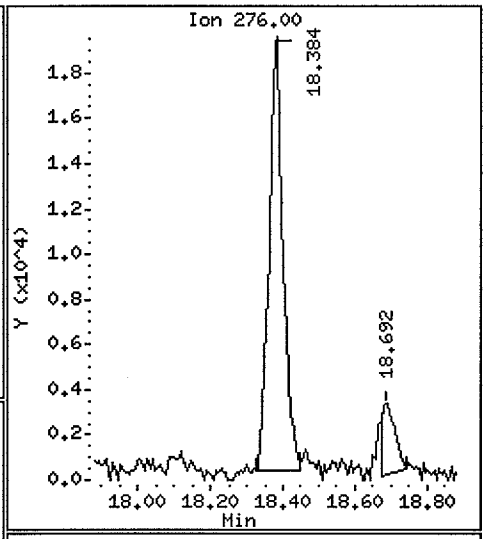
Column phase: ZB-5

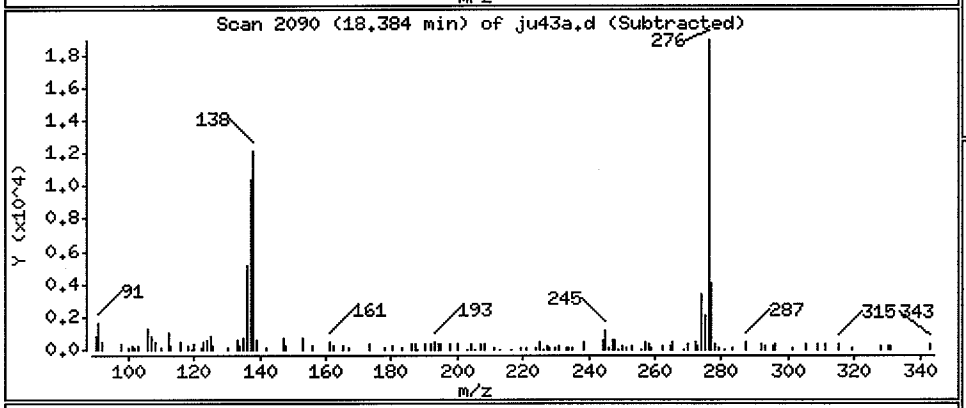
Column diameter: 0.25

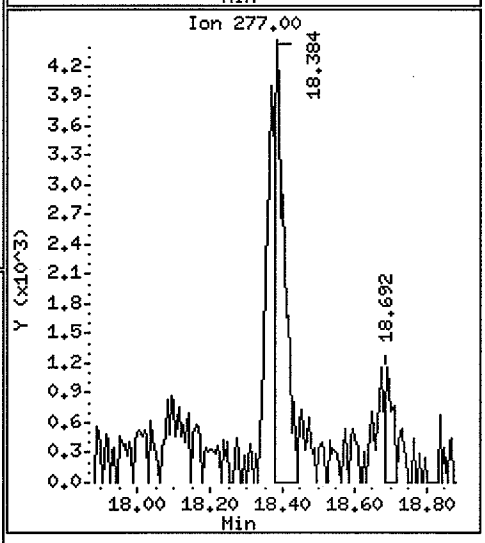
35 Benzo(g,h,i)perylene

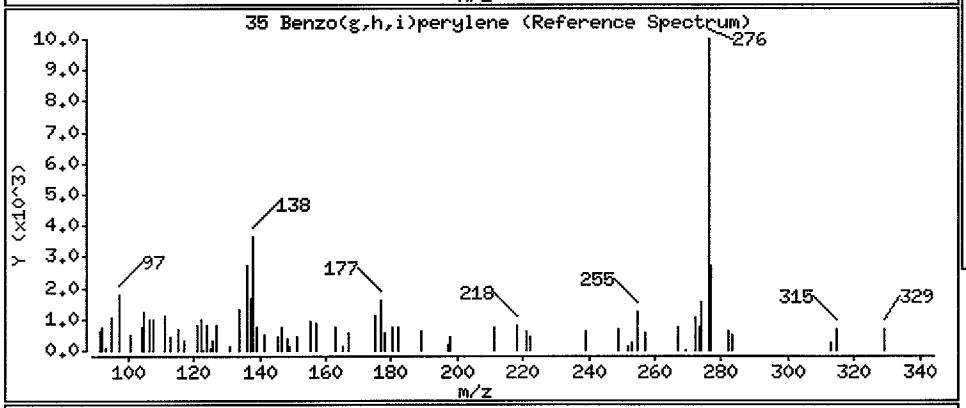
Concentration: 273.2 ug/kg

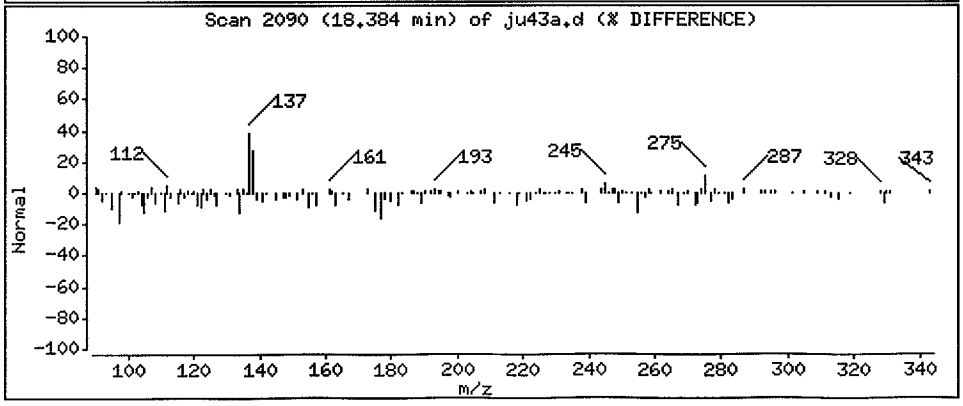












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

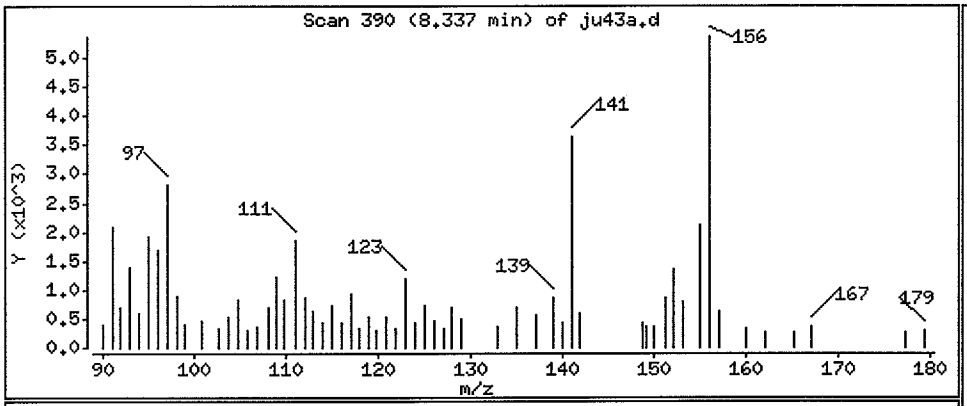
Operator: VTS

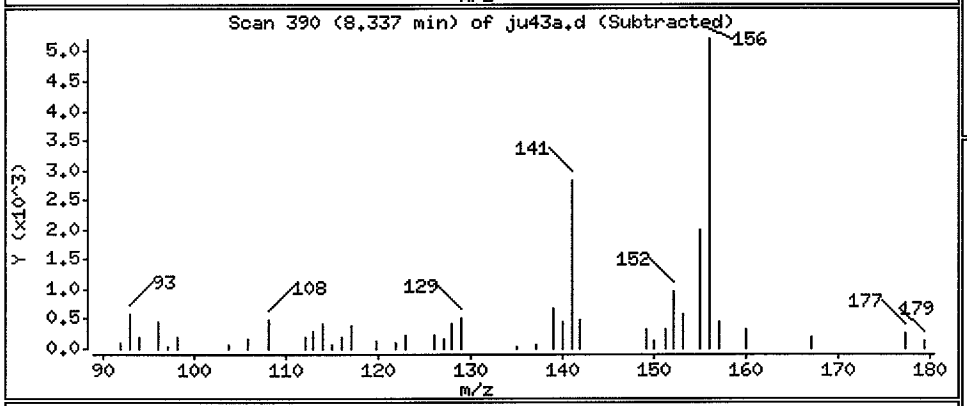
Column phase: ZB-5

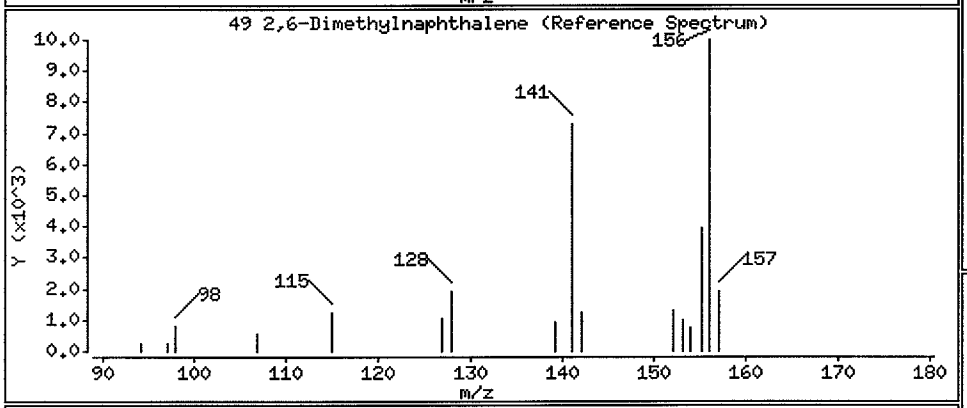
Column diameter: 0.25

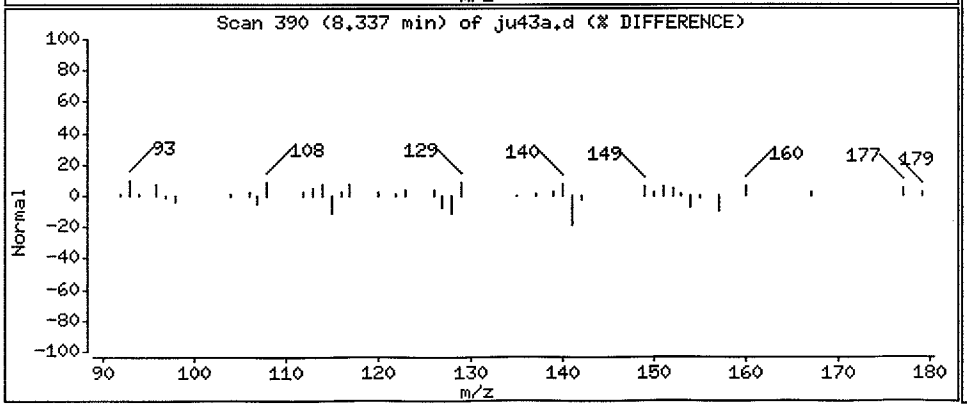
49 2,6-Dimethylnaphthalene

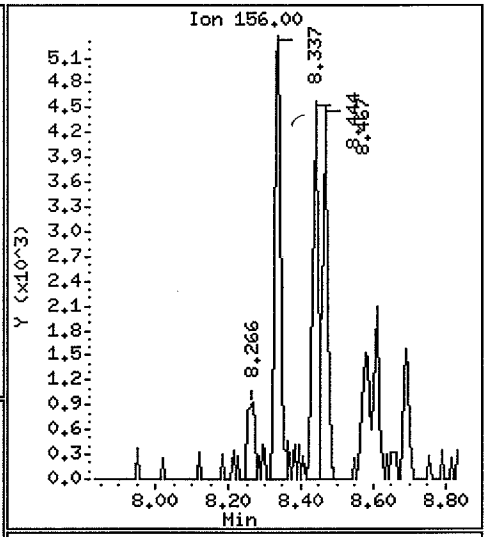
Concentration: 39.15 ug/kg

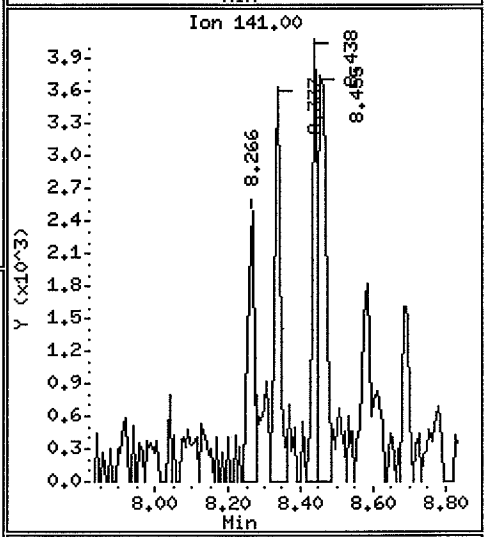


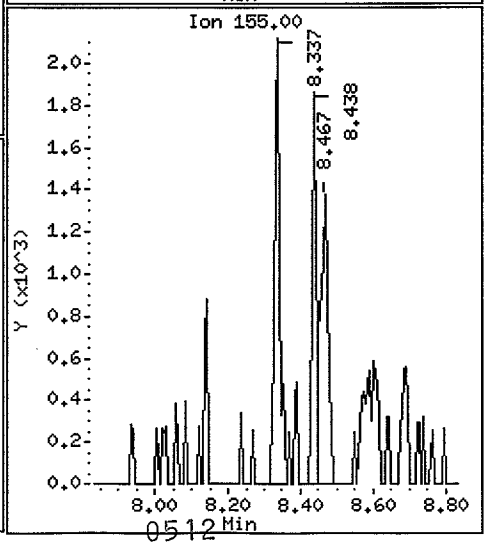












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

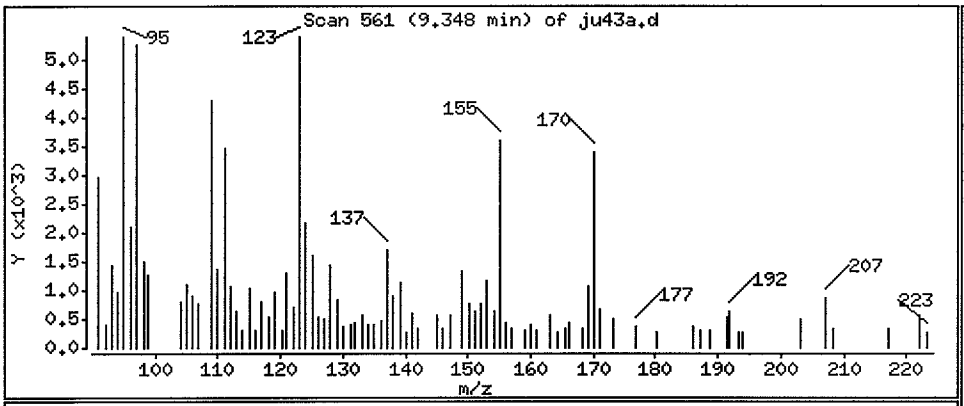
Operator: VTS

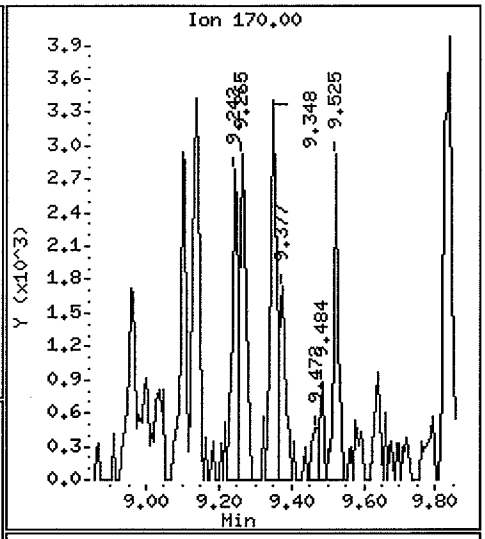
Column phase: ZB-5

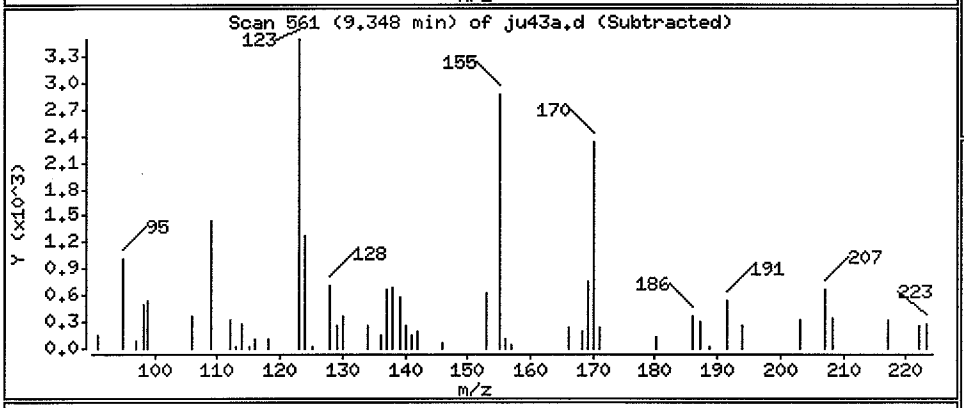
Column diameter: 0.25

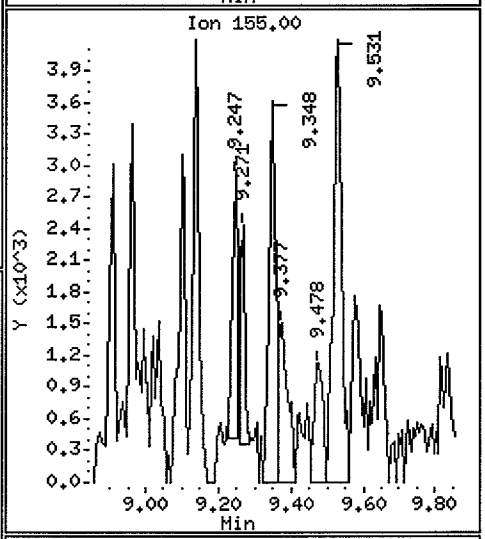
50 2,3,5-Trimethylnaphthalene

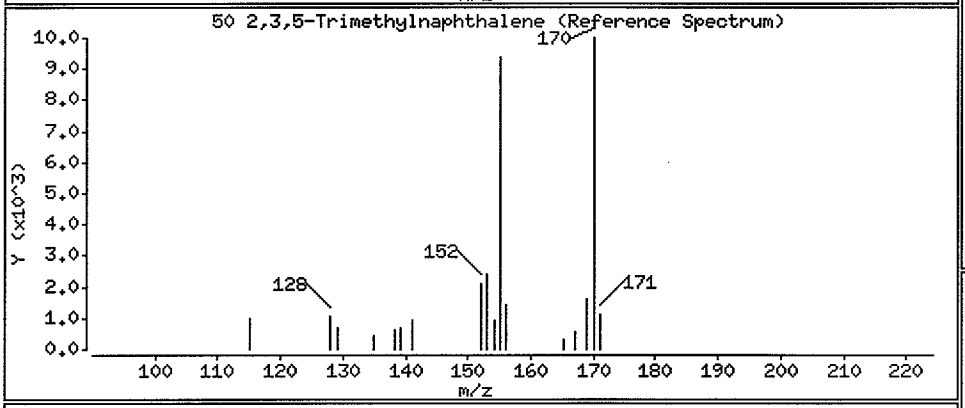
Concentration: 31.21 ug/kg

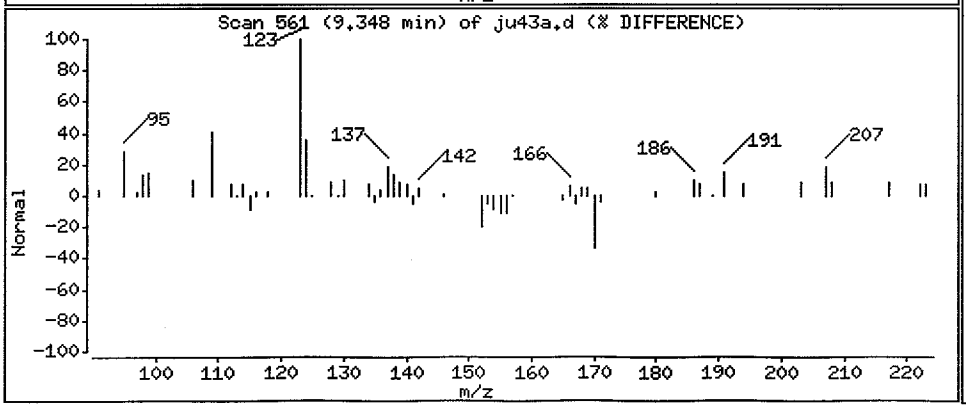


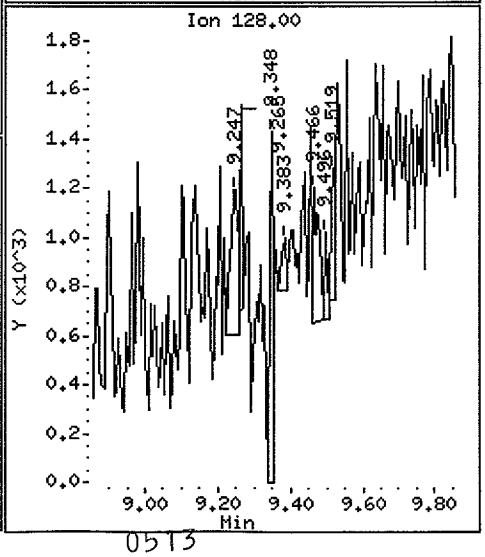












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

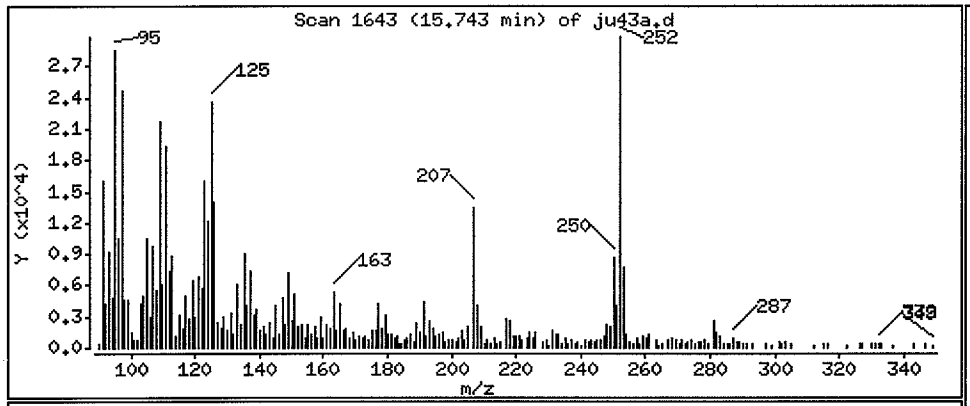
Operator: VTS

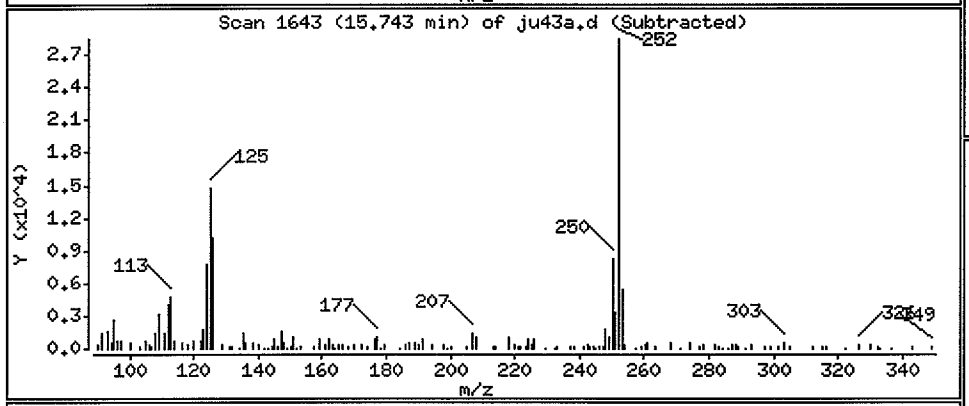
Column phase: ZB-5

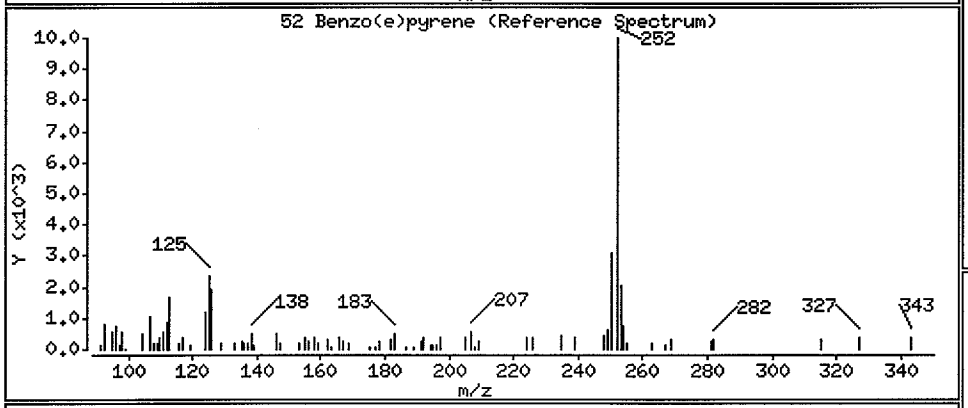
Column diameter: 0.25

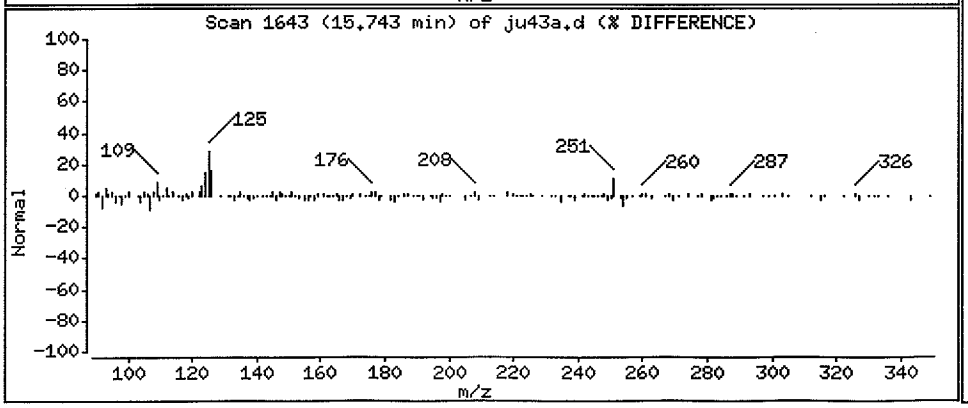
52 Benzo(e)pyrene

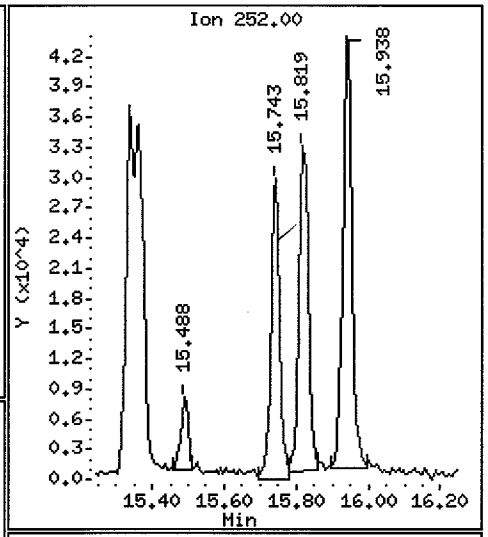
Concentration: 235.4 ug/kg

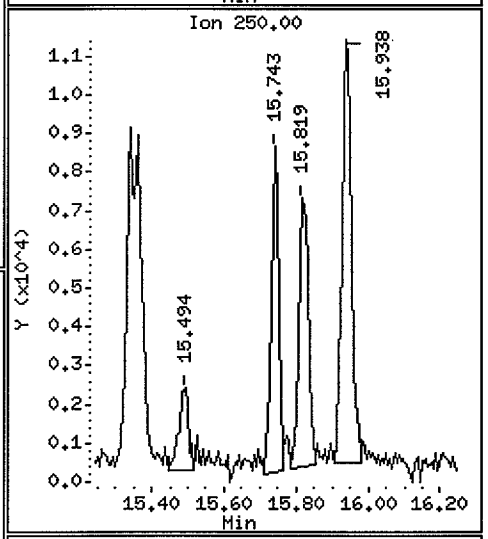


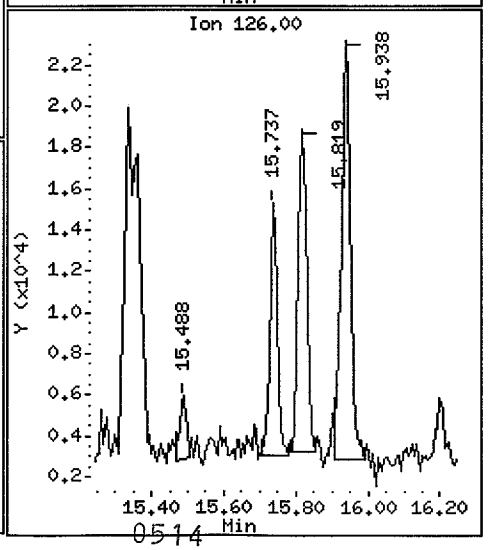












Data File: /chem3/nt1.i/20060912.b/ju43a.d

Date : 12-SEP-2006 12:53

Client ID: T4-B414-01-D

Instrument: nt1.i

Sample Info: JU43A

Volume Injected (uL): 1.0

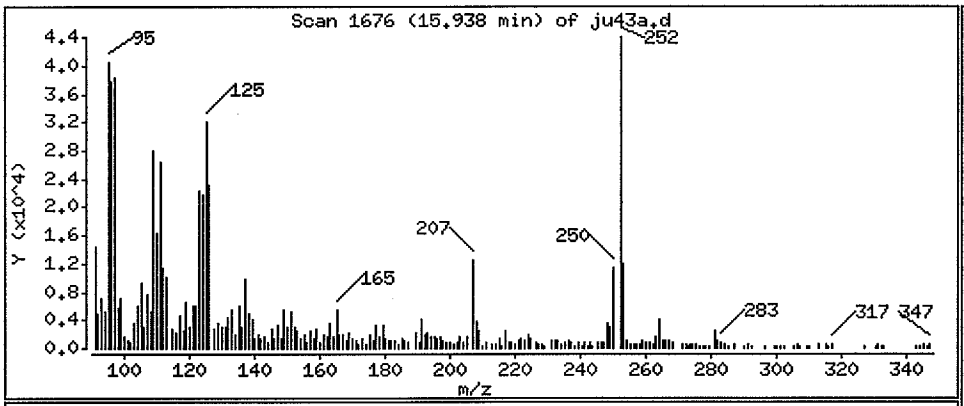
Operator: VTS

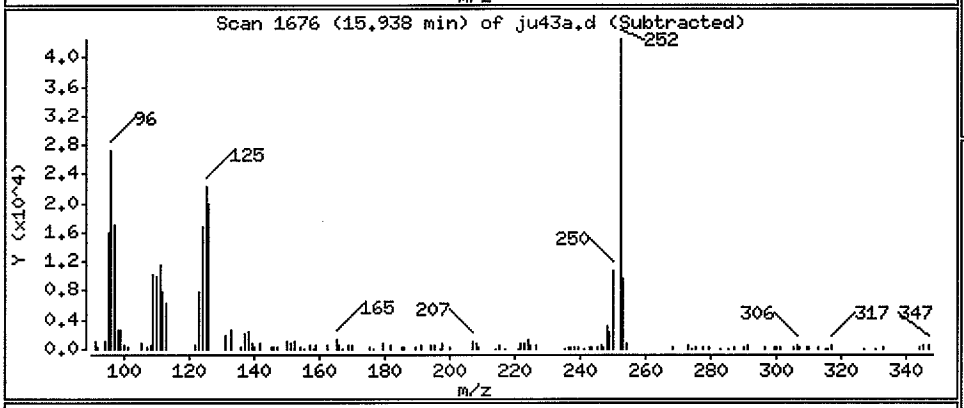
Column phase: ZB-5

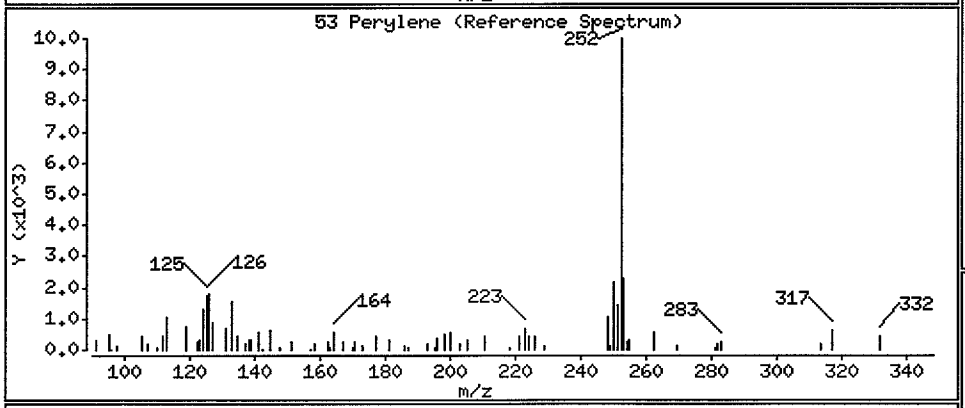
Column diameter: 0.25

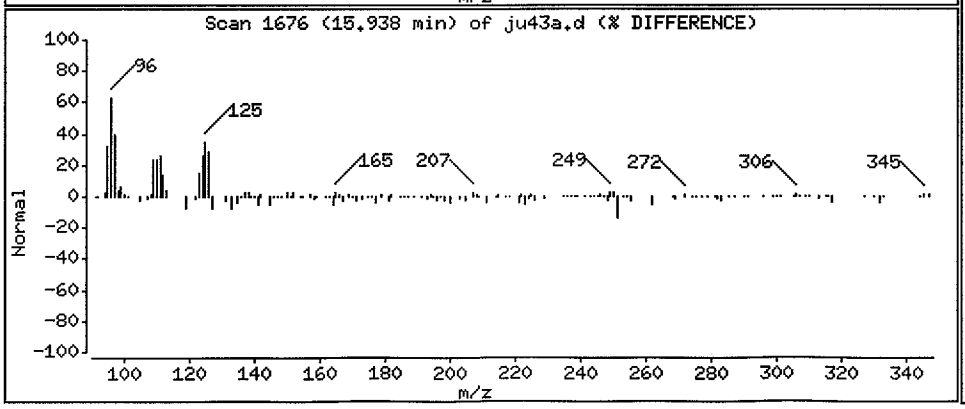
53 Perylene

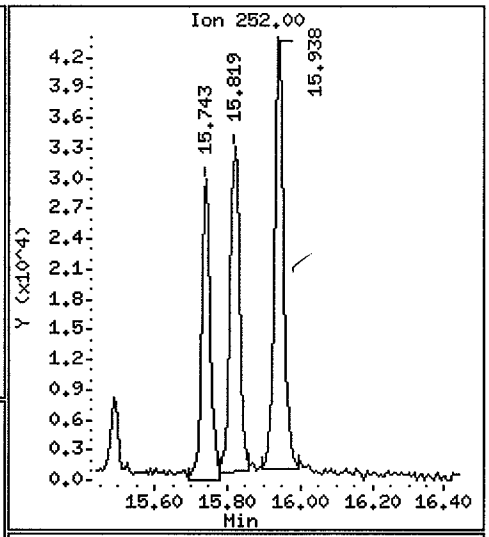
Concentration: 372.0 ug/kg

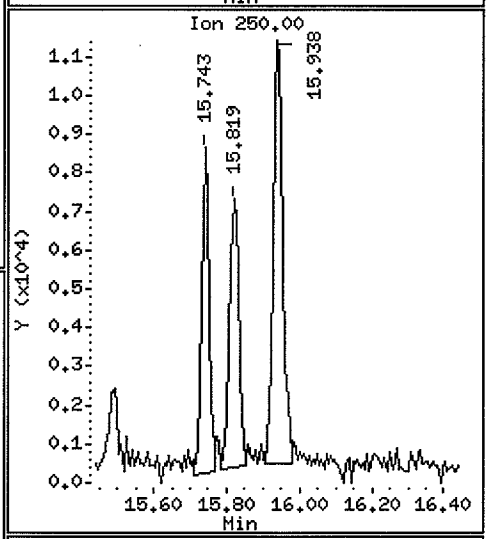


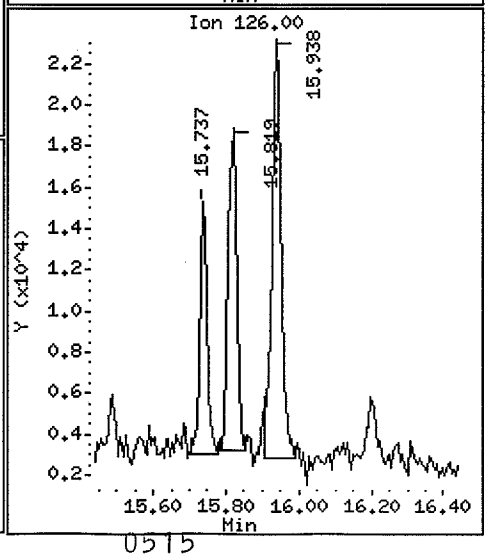












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-B414-01-F
SAMPLE

Lab Sample ID: JU43B
LIMS ID: 06-15846
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 13:17
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 1.23 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 42.2%
pH: 6.4

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	41	750	
91-57-6	2-Methylnaphthalene	41	810	
90-12-0	1-Methylnaphthalene	41	890	
208-96-8	Acenaphthylene	41	170	
83-32-9	Acenaphthene	41	3,300	
86-73-7	Fluorene	41	2,800	
85-01-8	Phenanthrene	41	10,000	E
120-12-7	Anthracene	41	1,900	
206-44-0	Fluoranthene	41	7,000	E
129-00-0	Pyrene	41	6,000	E
56-55-3	Benzo(a)anthracene	41	1,800	
218-01-9	Chrysene	41	2,400	
205-99-2	Benzo(b)fluoranthene	41	980	
207-08-9	Benzo(k)fluoranthene	41	1,200	
50-32-8	Benzo(a)pyrene	41	1,600	
193-39-5	Indeno(1,2,3-cd)pyrene	41	870	
53-70-3	Dibenz(a,h)anthracene	41	220	
191-24-2	Benzo(g,h,i)perylene	41	1,200	
198-55-0	Perylene	41	520	
92-52-4	Biphenyl	41	77	
581-42-0	2,6-Dimethylnaphthalene	41	1,300	
832-69-9	1-Methylphenanthrene	41	920	
192-97-2	Benzo(e)pyrene	41	990	
2245-38-7	2,3,5-Trimethylnaphthalene	41	620	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	89.3%
d14-Dibenzo(a,h)anthracen	107%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43b.d
Lab Smp Id: JU43B Client Smp ID: T4-B414-01-F
Inj Date : 12-SEP-2006 13:17
Operator : VTS Inst ID: nt1.i
Smp Info : JU43B
Misc Info : 06-15846
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	2.13000	Weight of sample extracted (g)
M	42.20000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.812	6.808	(1.000)	334612	2.00000		
	2 Naphthalene	128	6.830	6.832	(1.003)	297874	1.85291	752.5	
$	3 2-Methylnaphthalene-d10	152	7.563	7.564	(1.110)	222439	2.68087	1089	
	4 2-Methylnaphthalene	142	7.604	7.600	(1.116)	171110	2.00265	813.3	
	5 1-Methylnaphthalene	142	7.734	7.730	(1.135)	202590	2.18501	887.4	
	7 Acenaphthylene	152	8.692	8.687	(0.980)	54992	0.40664	165.1	
*	8 Acenaphthene-d10	164	8.869	8.871	(1.000)	164608	2.00000		
	9 Acenaphthene	153	8.911	8.906	(1.005)	659753	8.07748	3280	
	10 Dibenzofuran	168	9.100	9.095	(1.026)	338871	~~2.91~~929	1186	NR
	11 Fluorene	166	9.519	9.521	(1.073)	614908	6.93892	2818	
*	15 Phenanthrene-d10	188	10.684	10.679	(1.000)	218885	2.00000		
	16 Phenanthrene	178	10.713	10.709	(1.003)	2944971	24.8206	10080	E
	17 Anthracene	178	10.766	10.762	(1.008)	551319	4.60715	1871	
	19 Fluoranthene	202	12.203	12.198	(1.142)	1752509	17.3041	7028	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
	20 Pyrene	202	12.492	12.488	(0.893)	1807659	14.7847	6004	E
	22 Benzo(a)anthracene	228	13.970	13.965	(0.998)	451192	4.33206	1759	
*	23 Chrysene-d12	240	13.993	13.989	(1.000)	173721	2.00000		
	24 Chrysene	228	14.023	14.018	(1.002)	565652	5.77953	2347	
	28 Benzo(b)fluoranthene	252	15.347	15.336	(0.965)	240584	2.40439	976.5	
	29 Benzo(k)fluoranthene	252	15.364	15.366	(0.966)	315741	3.02138	1227	
	30 Benzo(a)pyrene	252	15.825	15.821	(0.995)	344139	3.81322	1549	
*	31 Perylene-d12	264	15.908	15.898	(1.000)	176697	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.817	17.813	(1.120)	207990	2.14677	871.9	
$	32 Dibenz(a,h)anthrancene-d14	292	17.746	17.736	(1.116)	186357	3.21842	1307(R)	
	34 Dibenz(a,h)anthracene	278	17.805	17.807	(1.119)	42854	0.54574	221.6	
	35 Benzo(g,h,i)perylene	276	18.390	18.380	(1.156)	261951	3.05934	1242	
	48 Biphenyl	154	8.142	8.138	(0.918)	19549	0.19151	77.78	
	49 2,6-Dimethylnaphthalene	156	8.337	8.333	(0.940)	239787	3.10977	1263	
	50 2,3,5-Trimethylnaphthalene	170	9.354	9.355	(1.055)	93273	1.53131	621.9	
	51 1-Methylphenanthrene	192	11.481	11.477	(0.820)	186336	2.27250	922.9	
	52 Benzo(e)pyrene	252	15.749	15.744	(0.990)	245431	2.44109	991.4	
	53 Perylene	252	15.944	15.939	(1.002)	120877	1.28845	523.3	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43b.d
Lab Smp Id: JU43B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15846

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-01-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	334612	-2.03
8 Acenaphthene-d10	169375	84688	338750	164608	-2.81
15 Phenanthrene-d10	232185	116092	464370	218885	-5.73
23 Chrysene-d12	179856	89928	359712	173721	-3.41
31 Perylene-d12	175373	87686	350746	176697	0.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.07
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.02
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.04
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.03
31 Perylene-d12	15.90	15.40	16.40	15.91	0.07

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

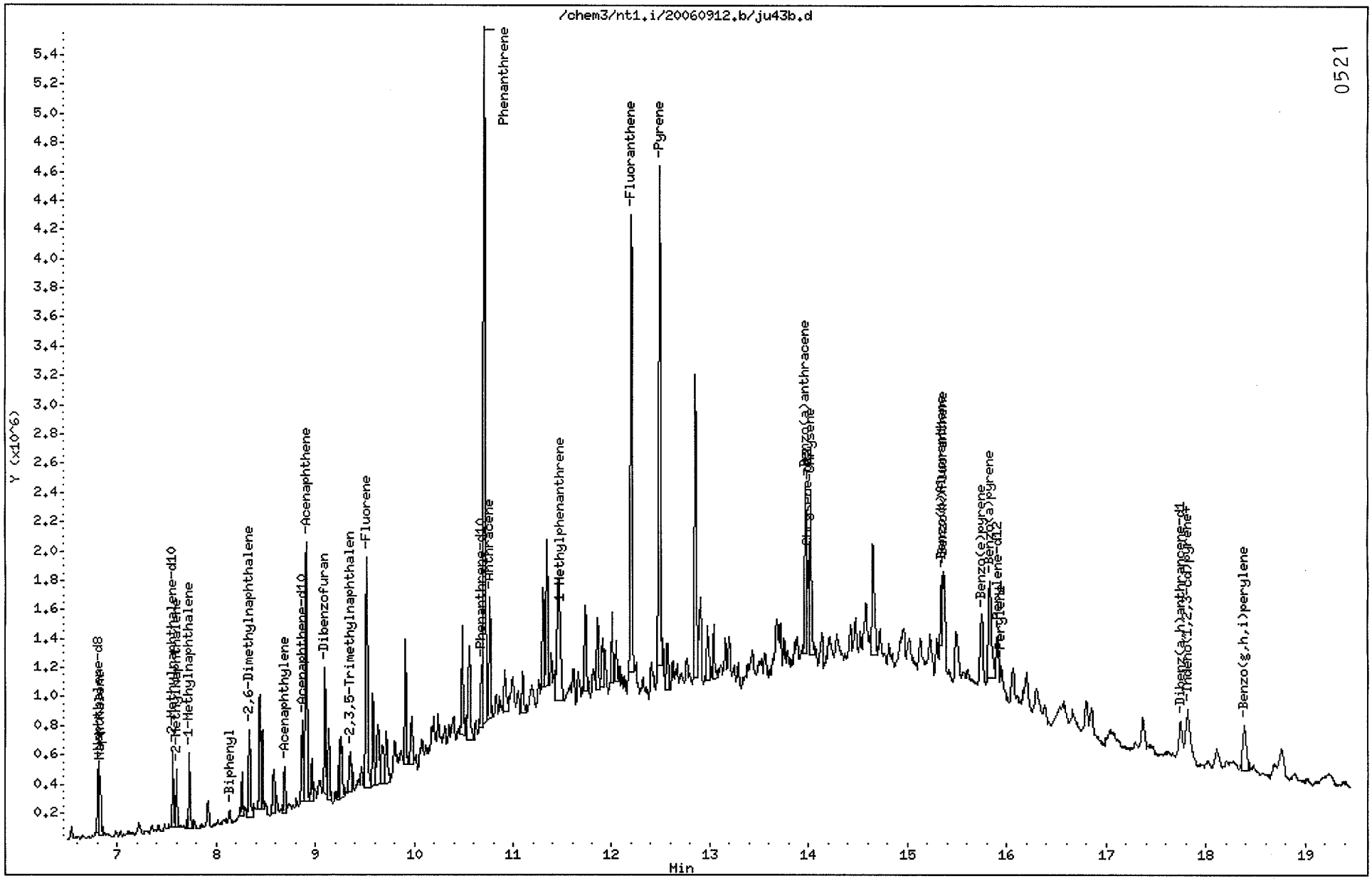
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43B
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15846

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-01-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	1218	1089	89.36	32-97
$ 32 Dibenz(a,h)anthran	1218	1307	107.28*	21-105

Data File: /chem3/nt1.i/20060912.b/ju43b.d
Date : 12-SEP-2006 13:17
Client ID: T4-B414-01-F
Sample Info: JU43B
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

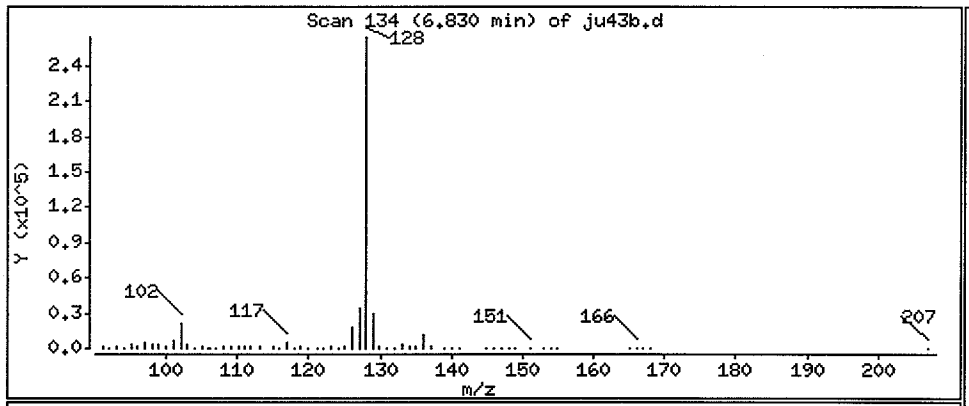
Operator: VTS

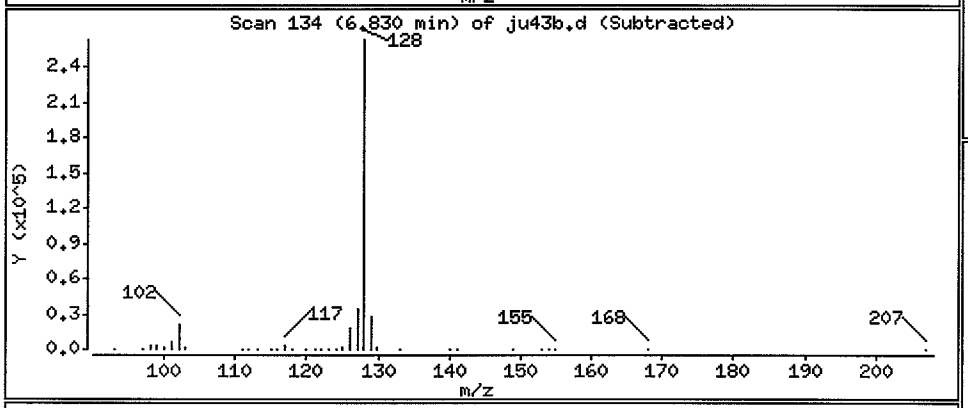
Column phase: ZB-5

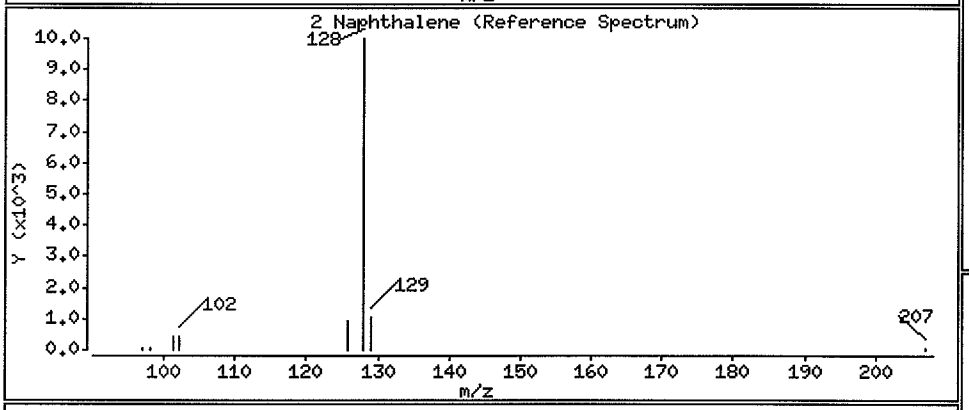
Column diameter: 0.25

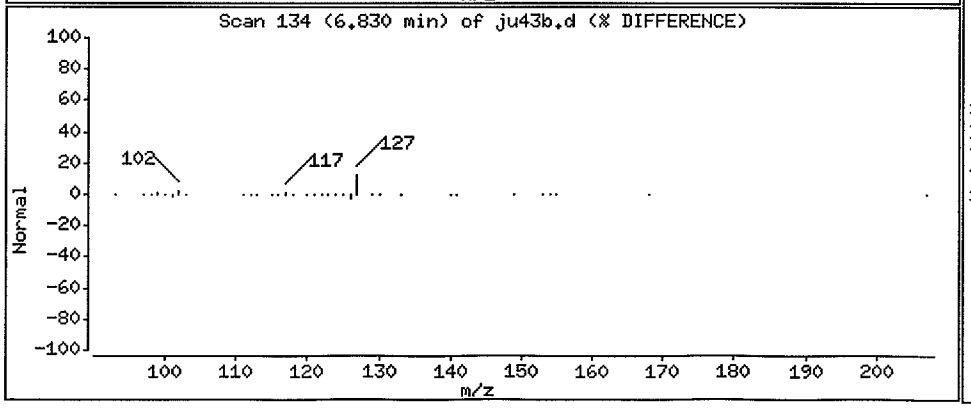
2 Naphthalene

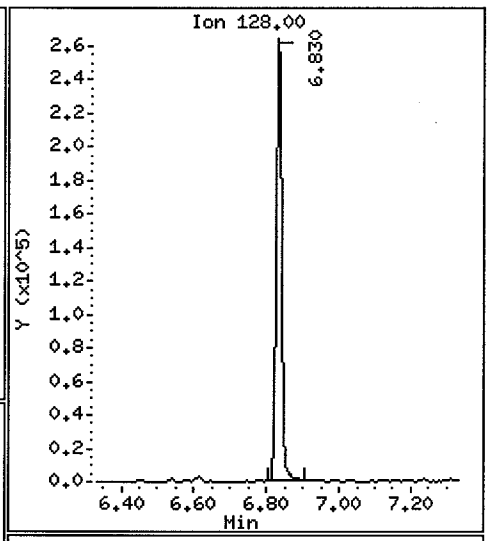
Concentration: 752.5 ug/kg

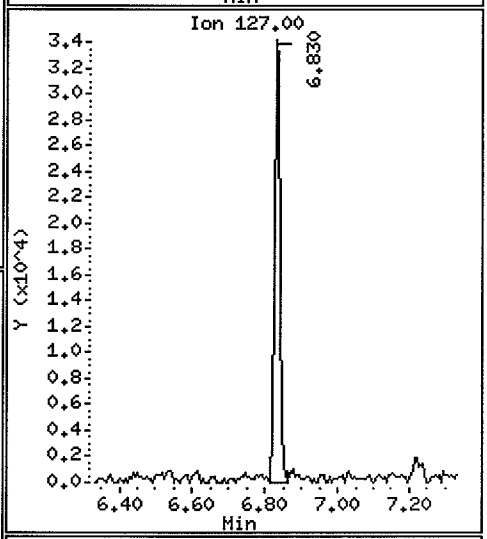


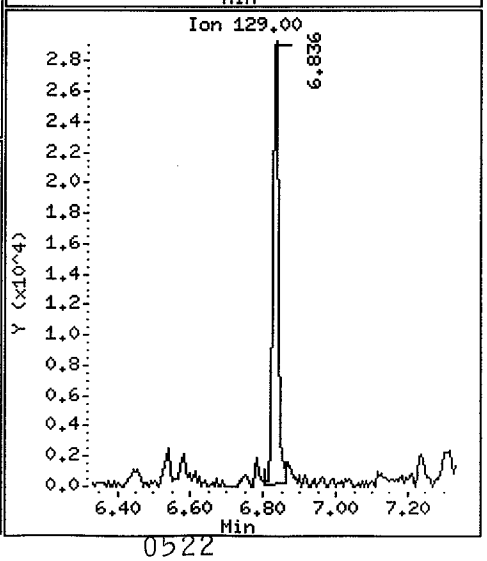












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

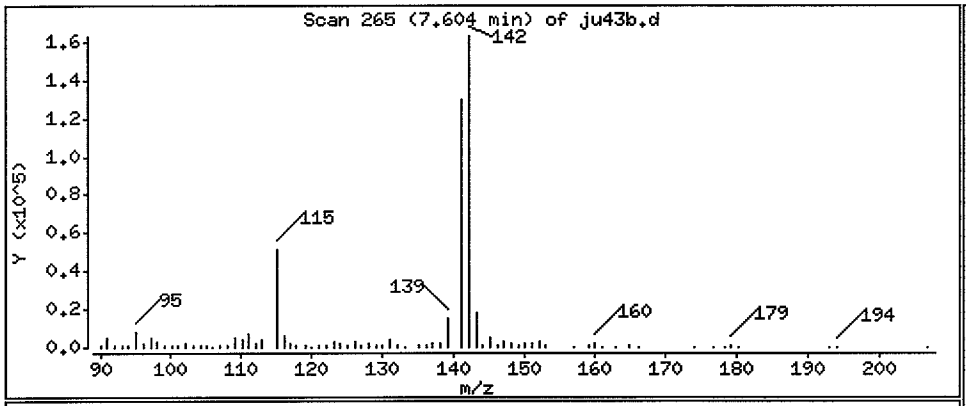
Operator: VTS

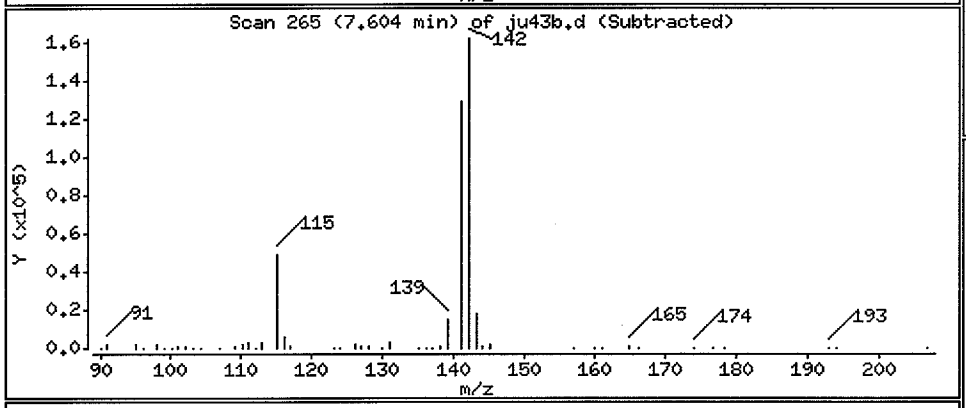
Column phase: ZB-5

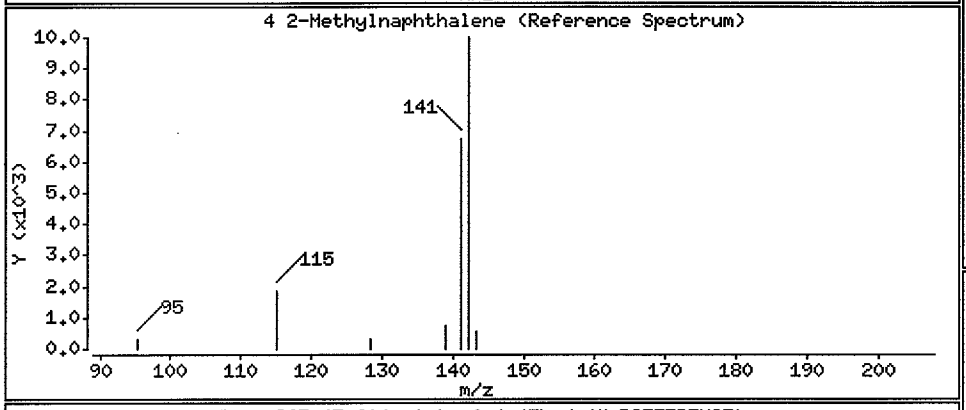
Column diameter: 0.25

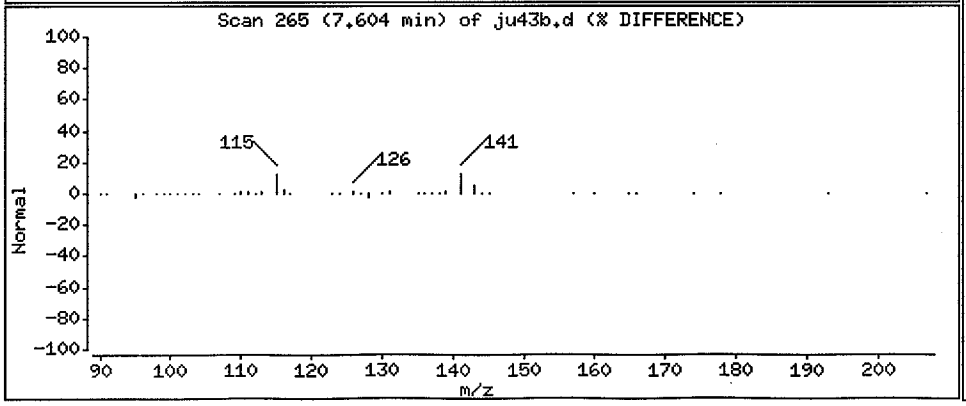
4 2-Methylnaphthalene

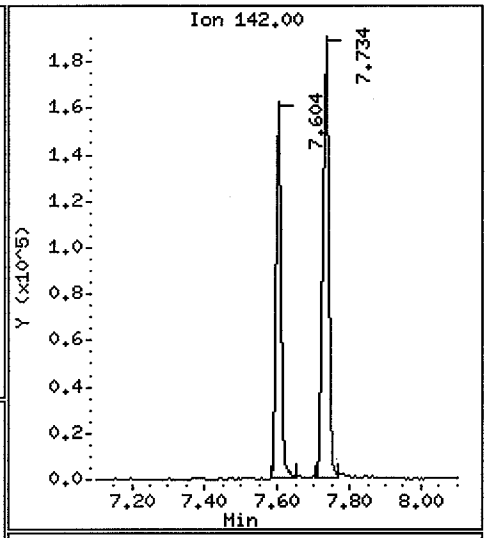
Concentration: 813.3 ug/kg

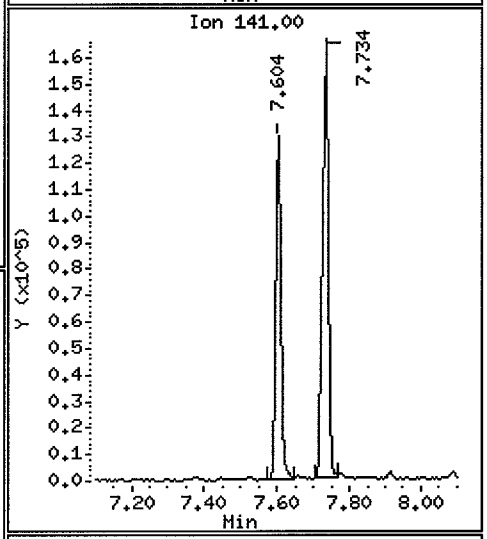


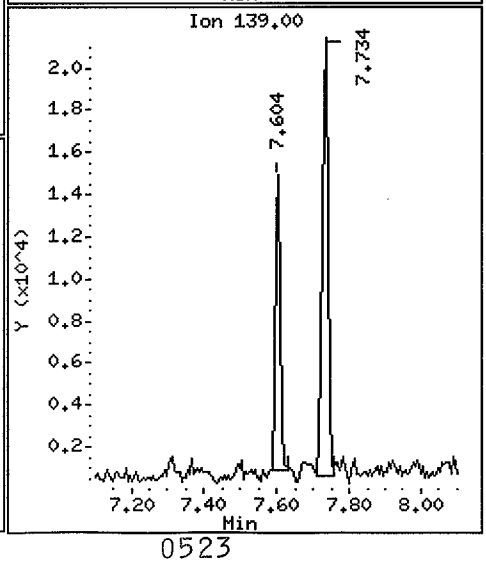












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

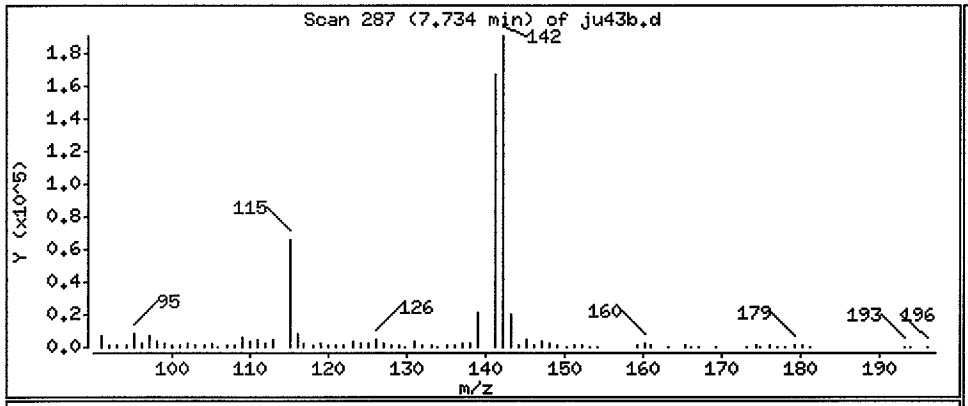
Operator: VTS

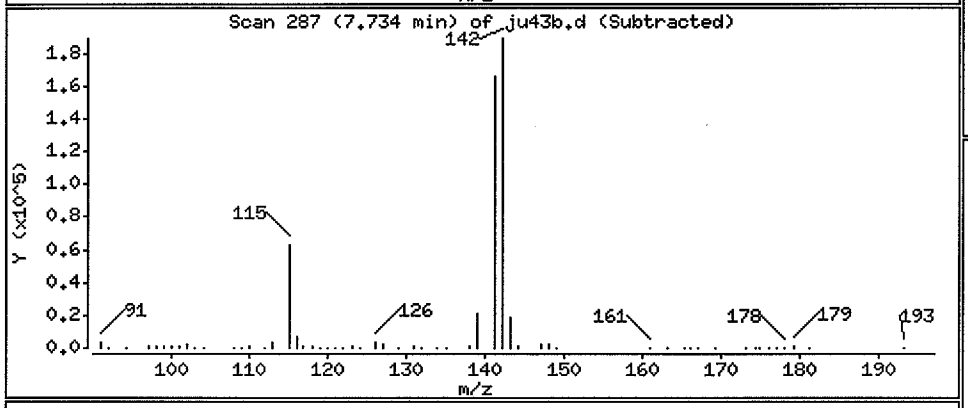
Column phase: ZB-5

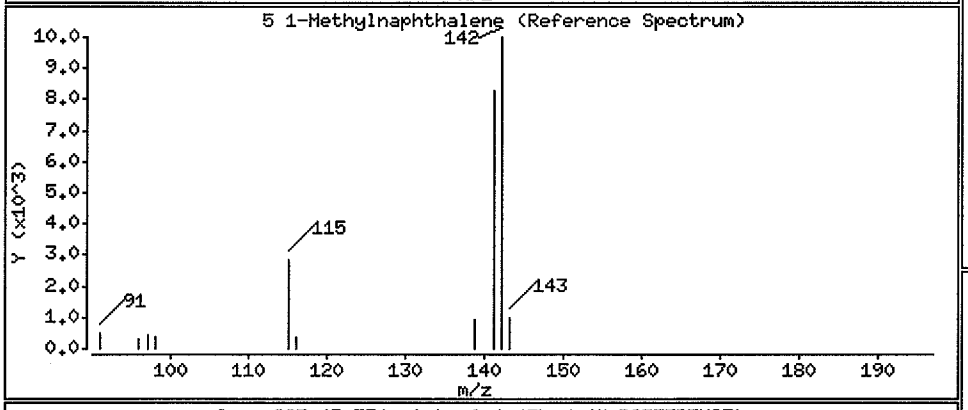
Column diameter: 0.25

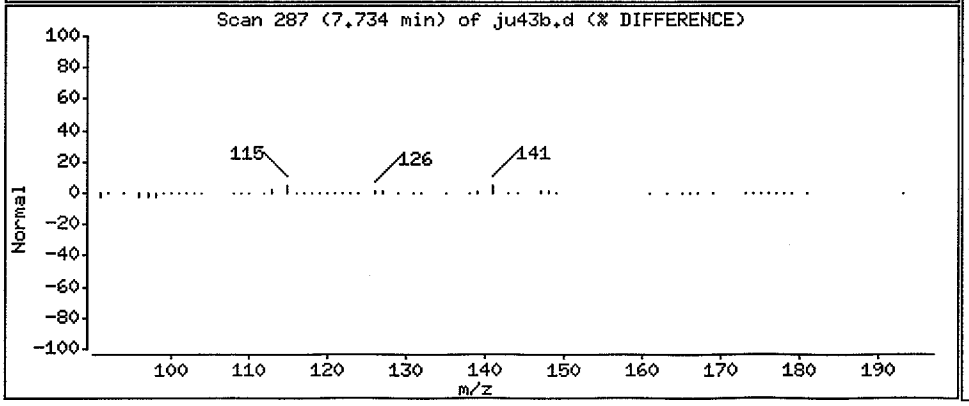
5 1-Methylnaphthalene

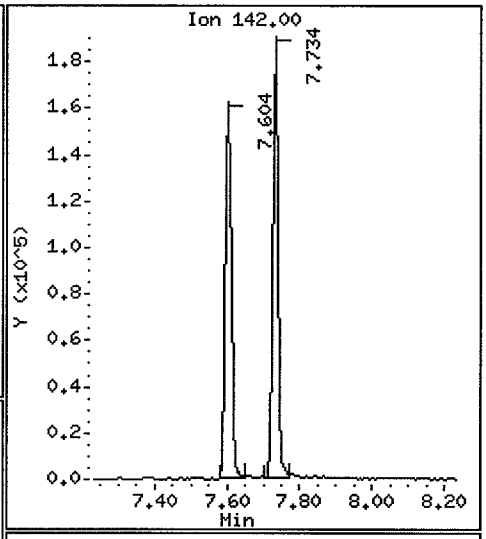
Concentration: 887.4 ug/kg

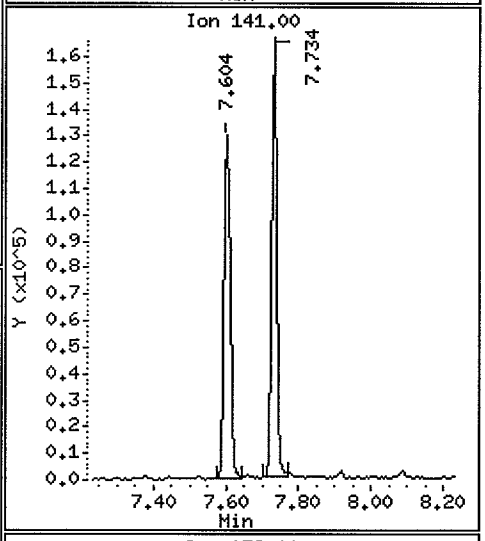


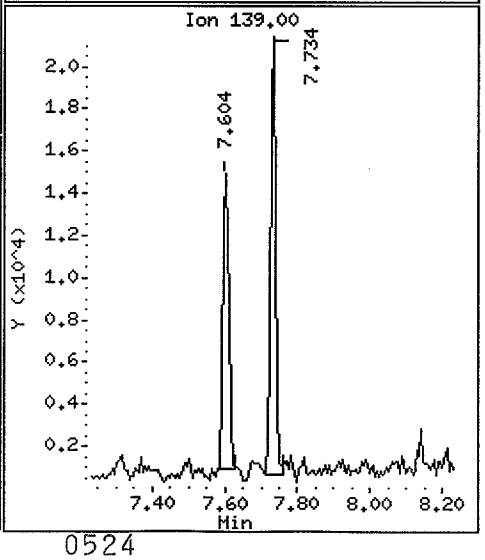












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

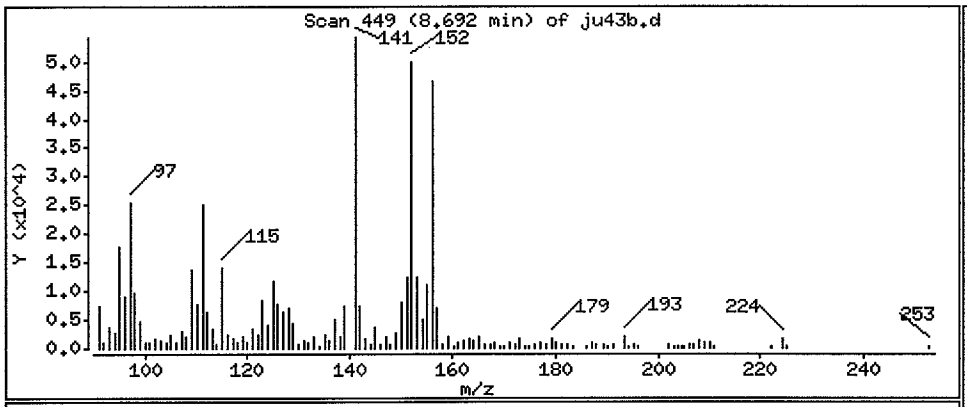
Operator: VTS

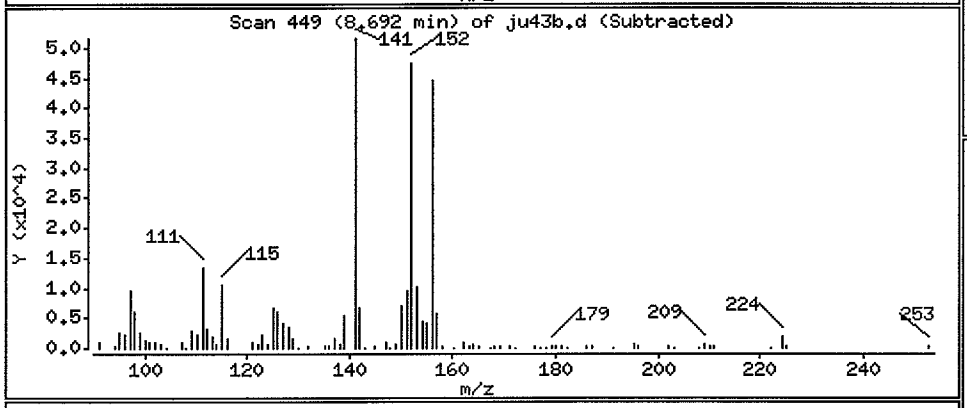
Column phase: ZB-5

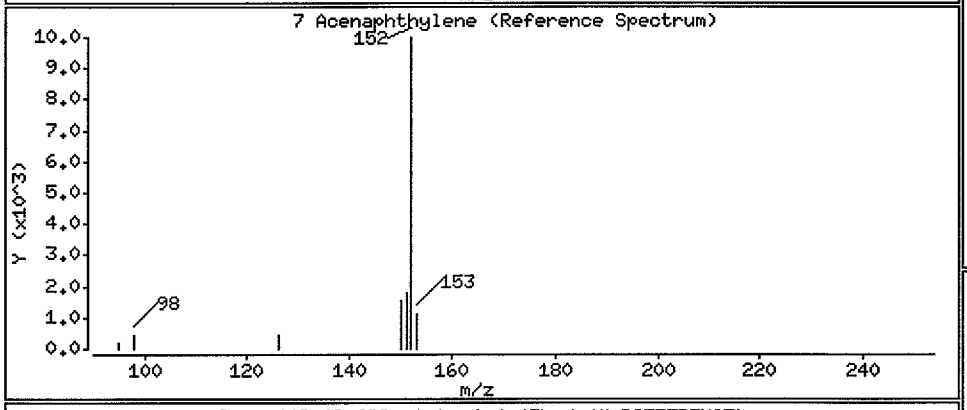
Column diameter: 0.25

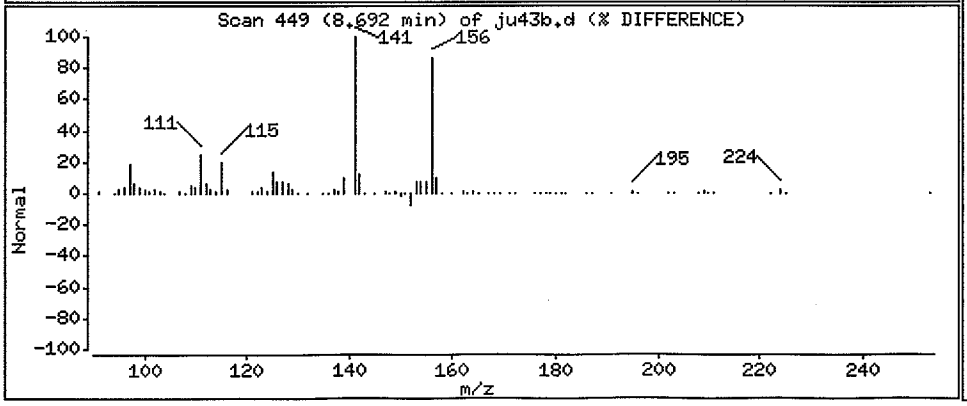
7 Acenaphthylene

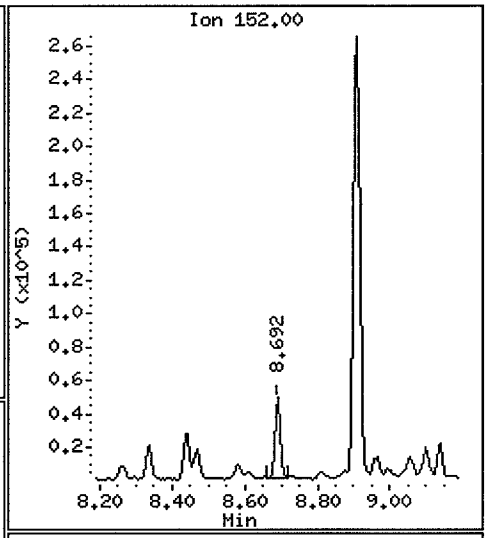
Concentration: 165.1 ug/kg

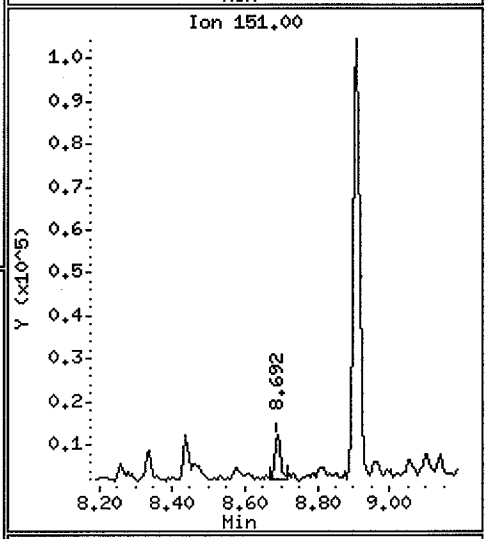


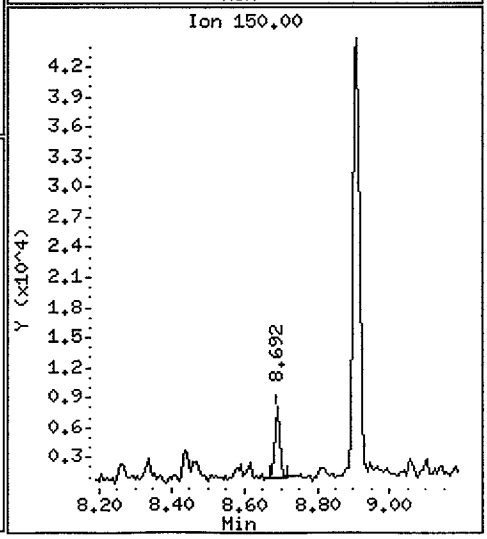












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

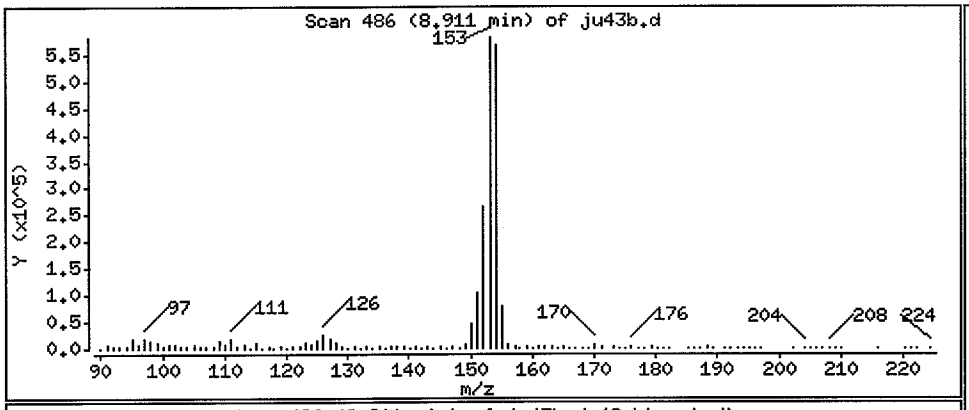
Operator: VTS

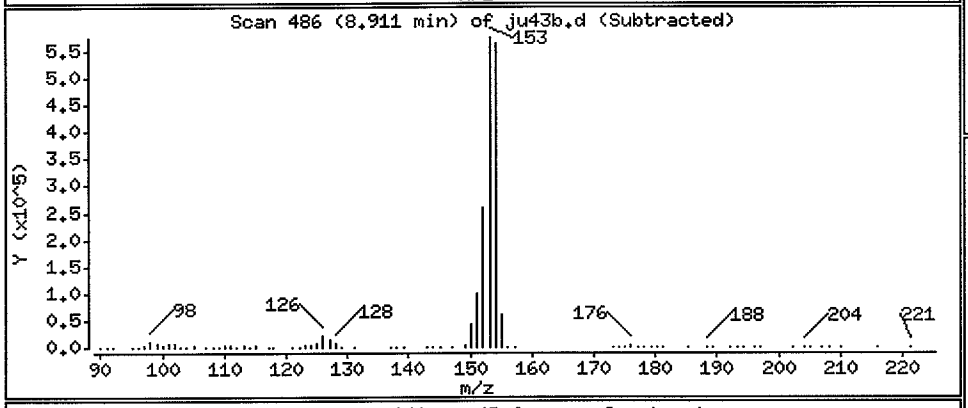
Column phase: ZB-5

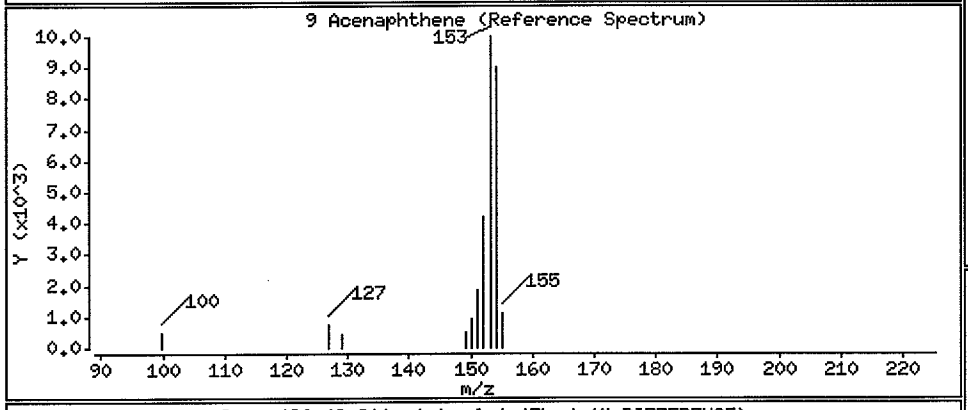
Column diameter: 0.25

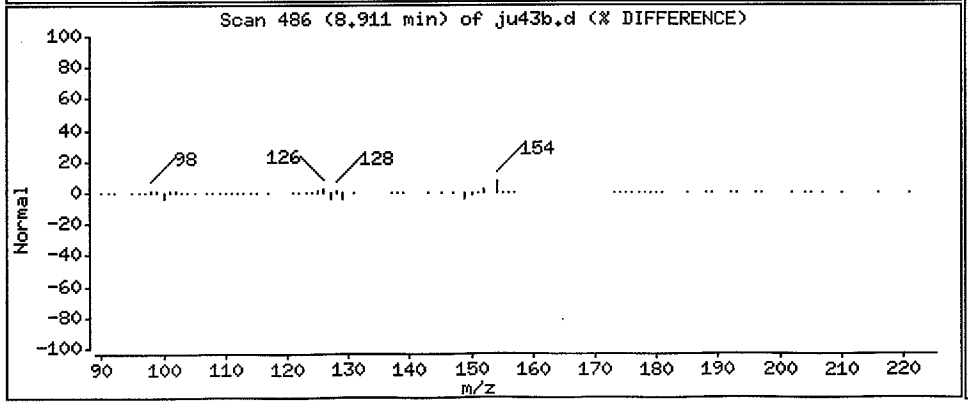
9 Acenaphthene

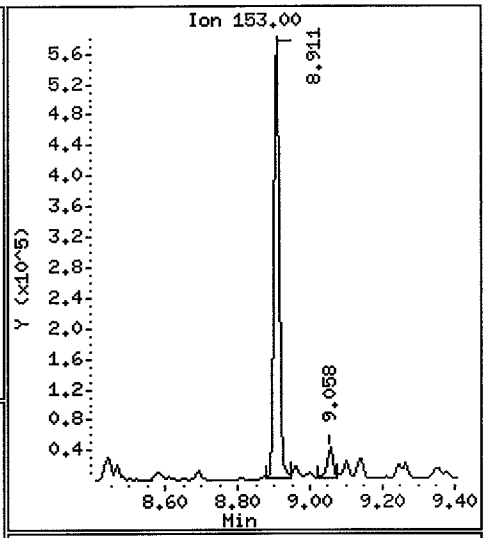
Concentration: 3280 ug/kg

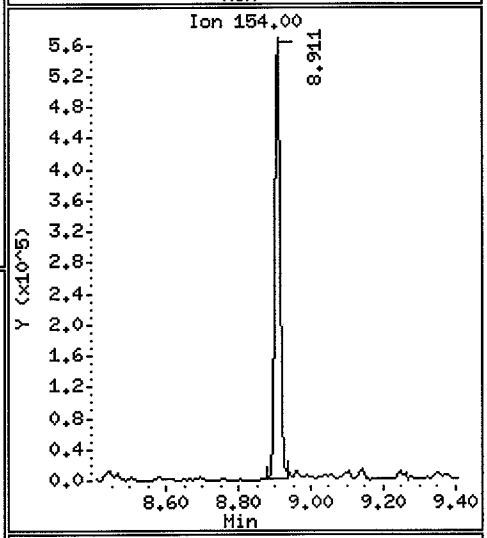


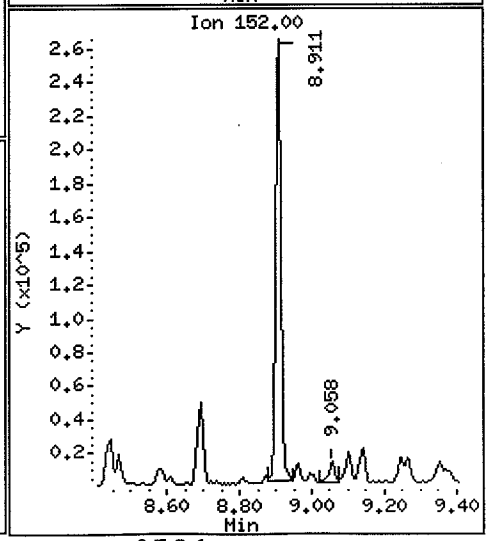












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

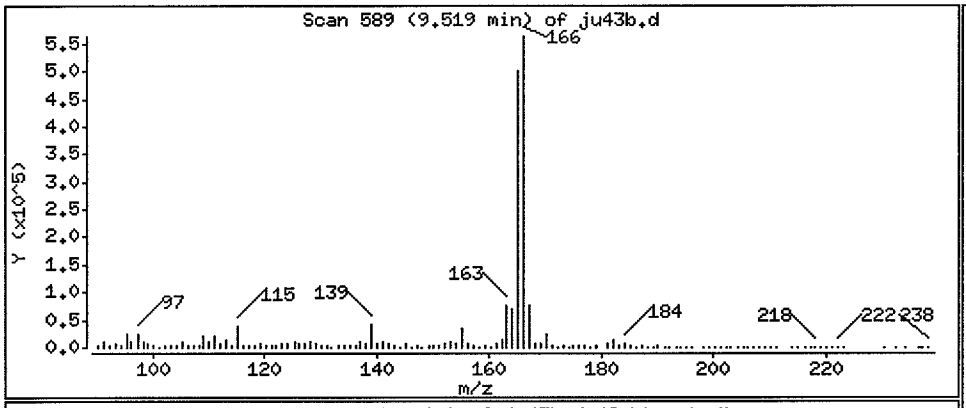
Operator: VTS

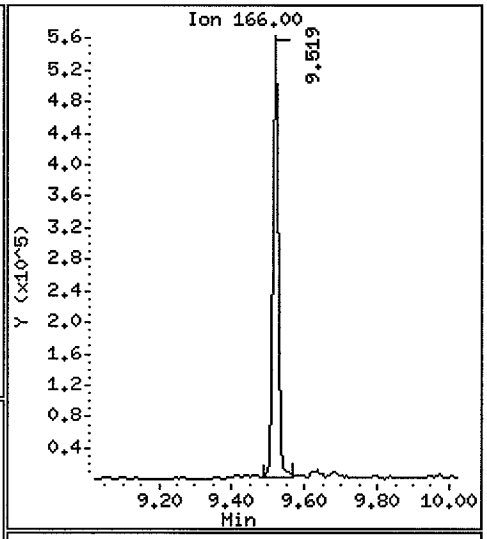
Column phase: ZB-5

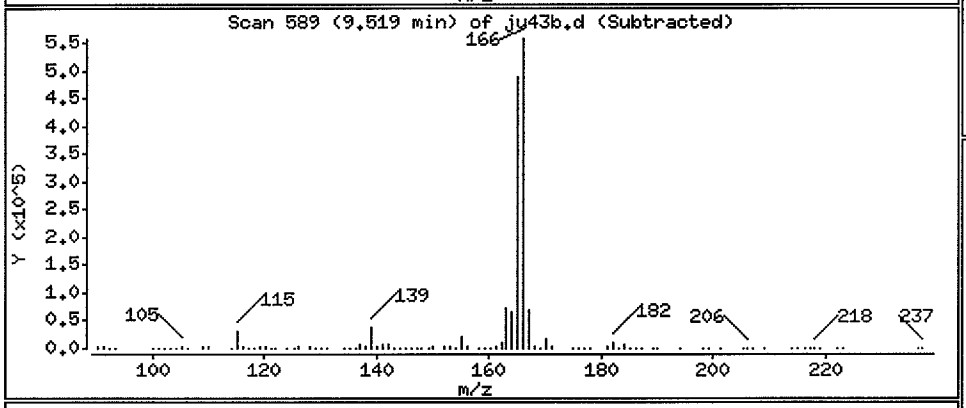
Column diameter: 0.25

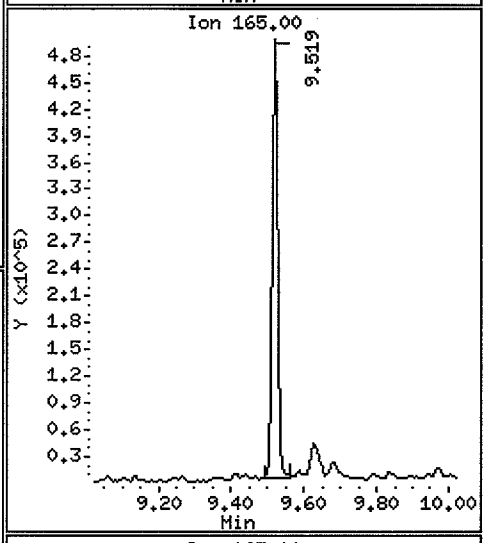
11 Fluorene

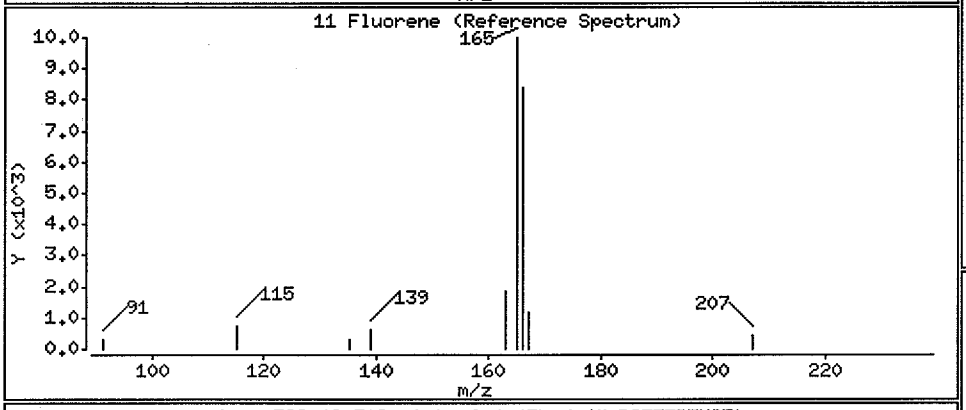
Concentration: 2818 ug/kg

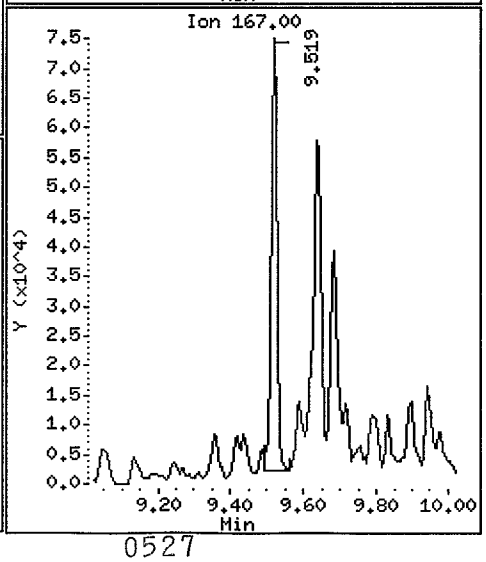


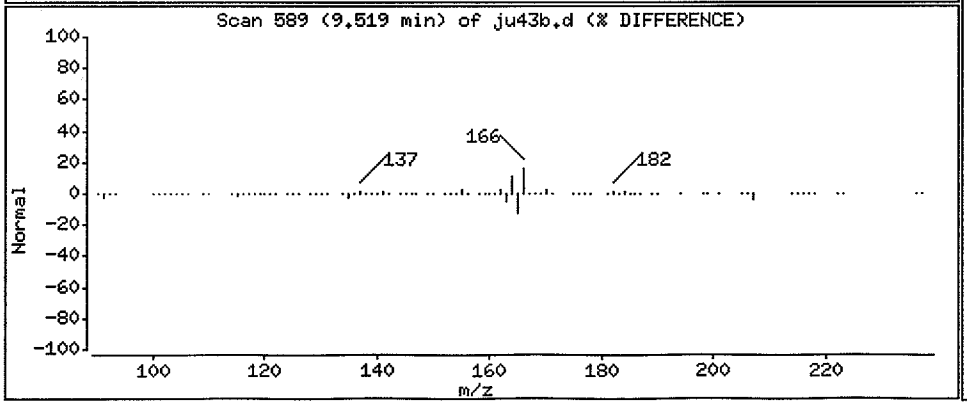












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

Operator: VTS

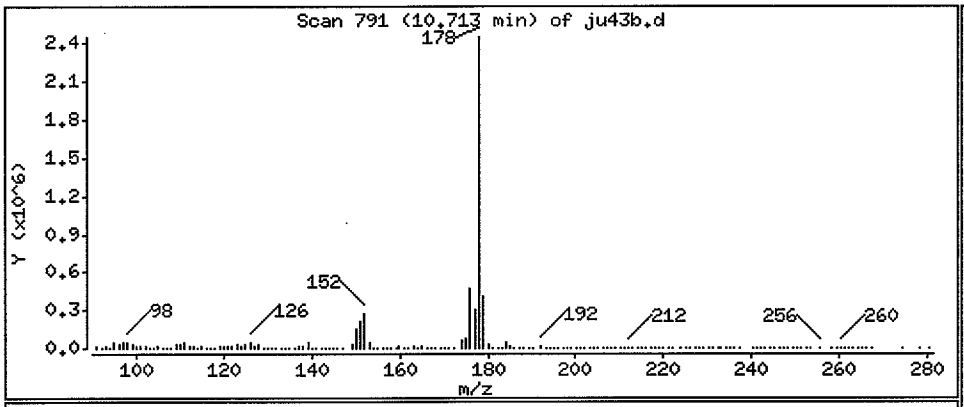
Column phase: ZB-5

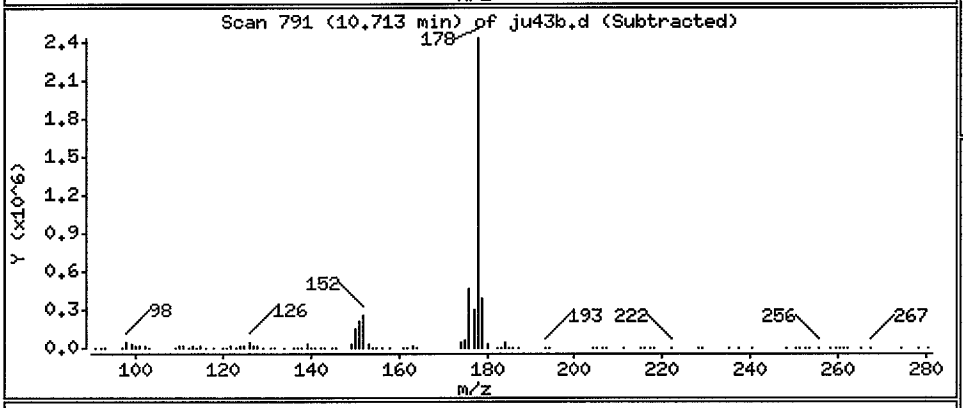
Column diameter: 0.25

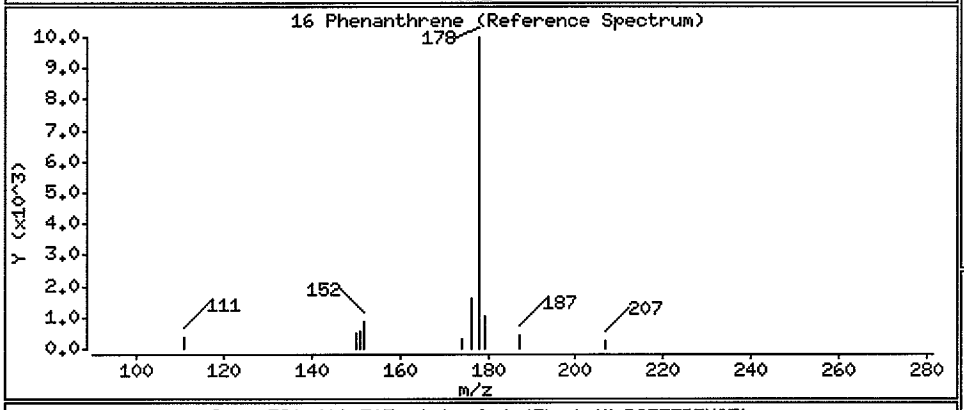
16 Phenanthrene

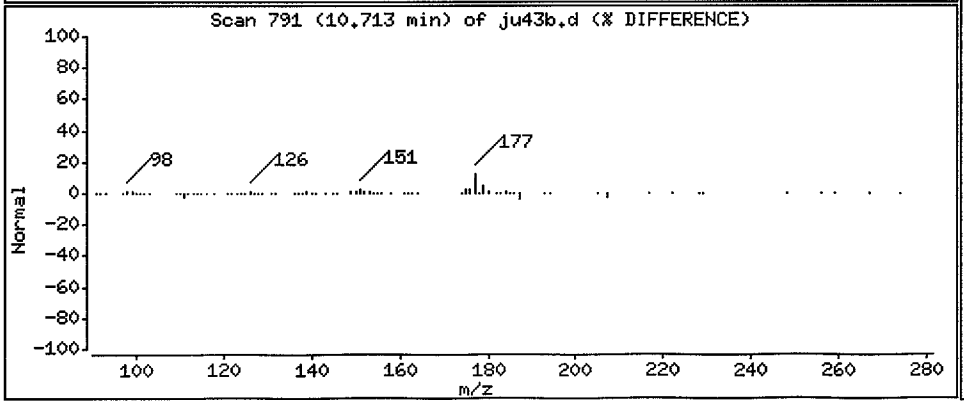
Concentration: 10080 ug/kg

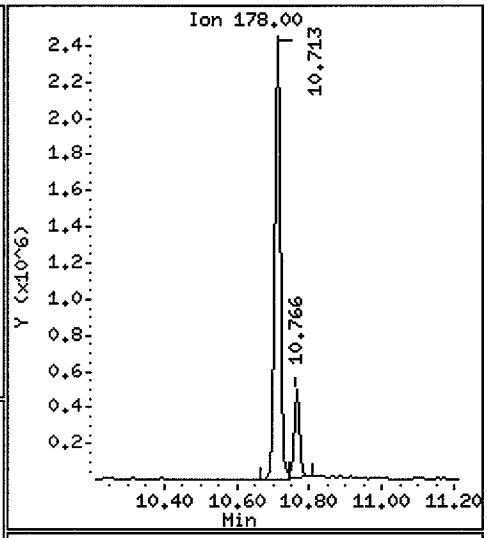
F

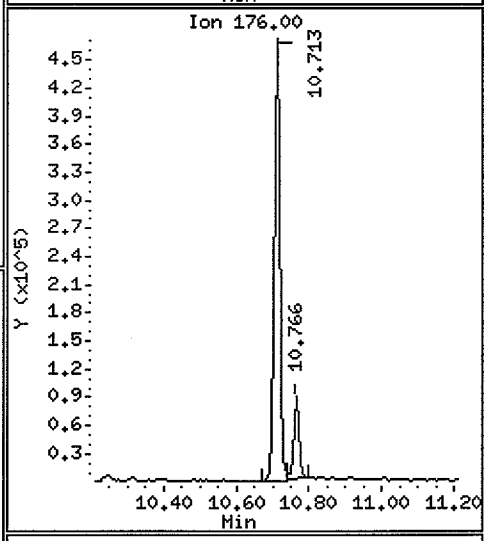


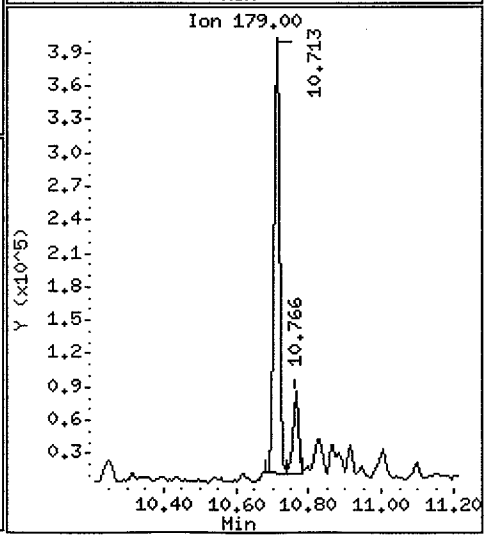












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

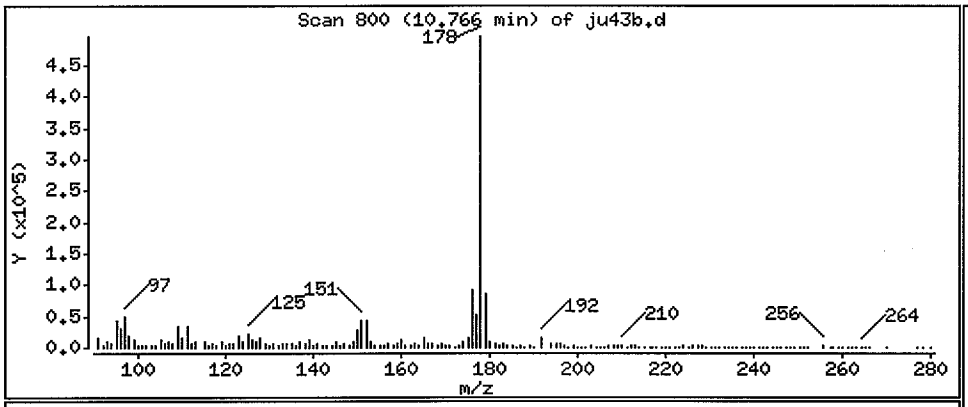
Operator: VTS

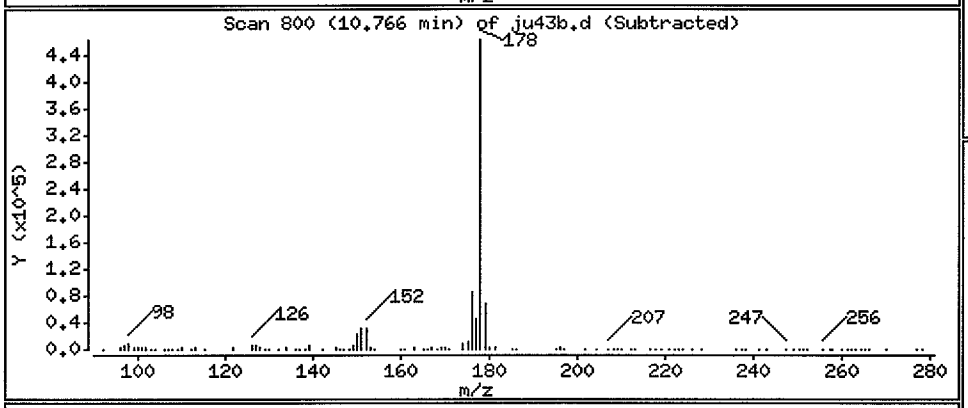
Column phase: ZB-5

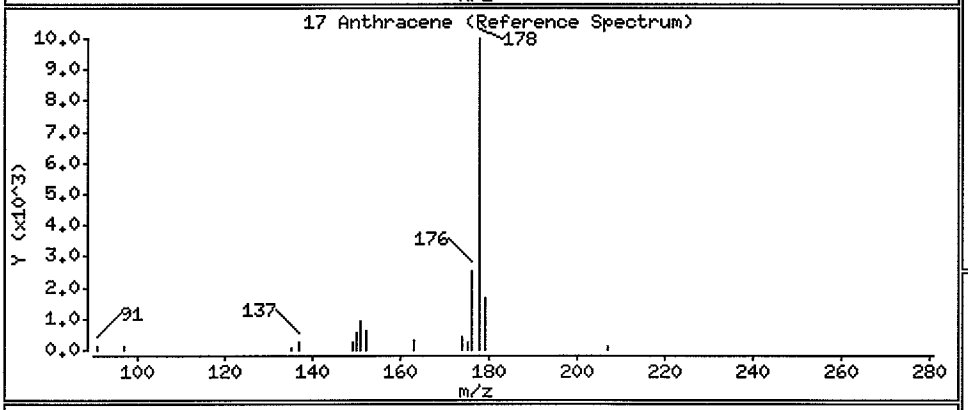
Column diameter: 0.25

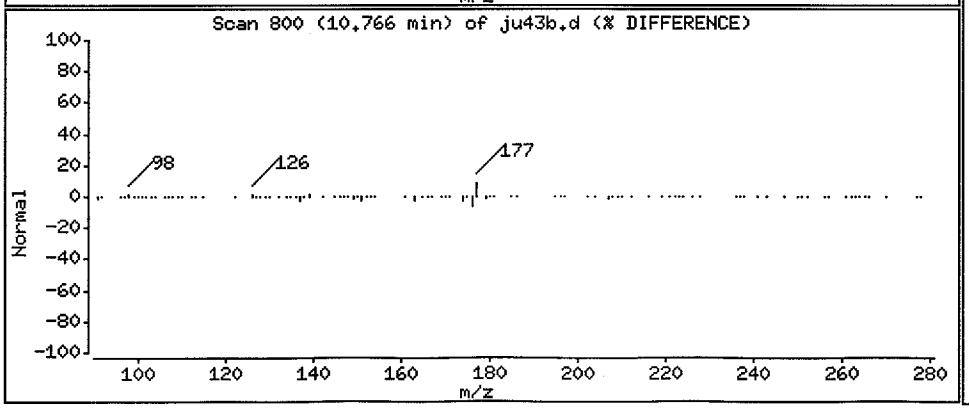
17 Anthracene

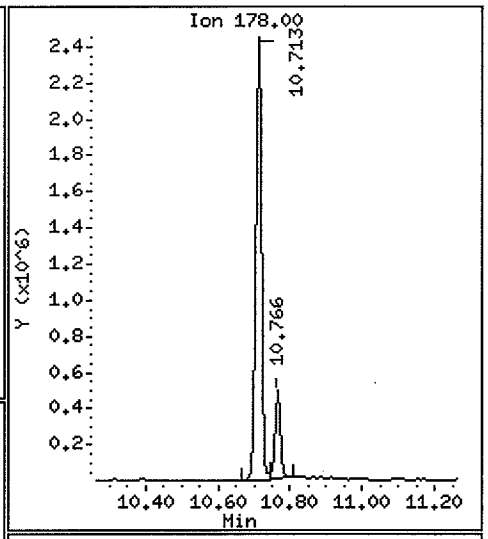
Concentration: 1871 ug/kg

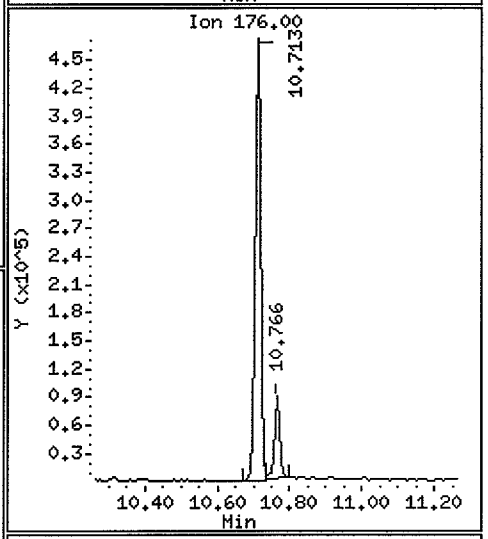


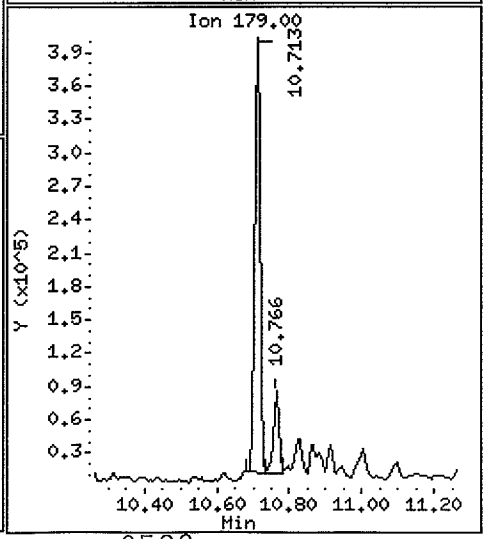












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

Operator: VTS

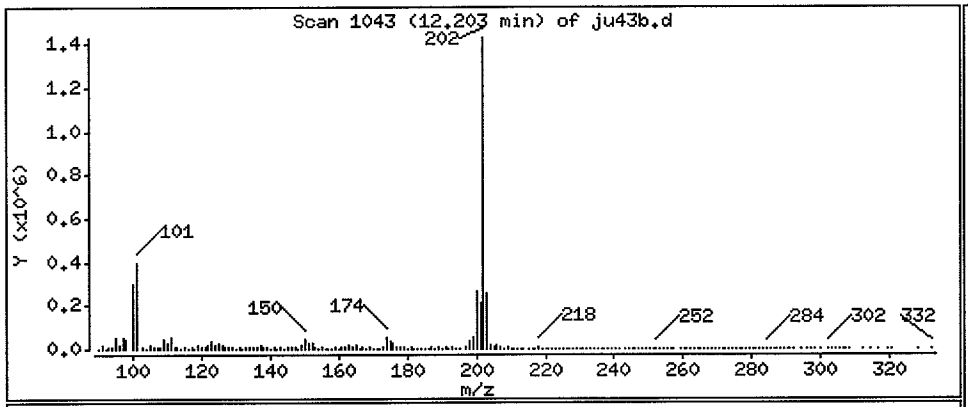
Column phase: ZB-5

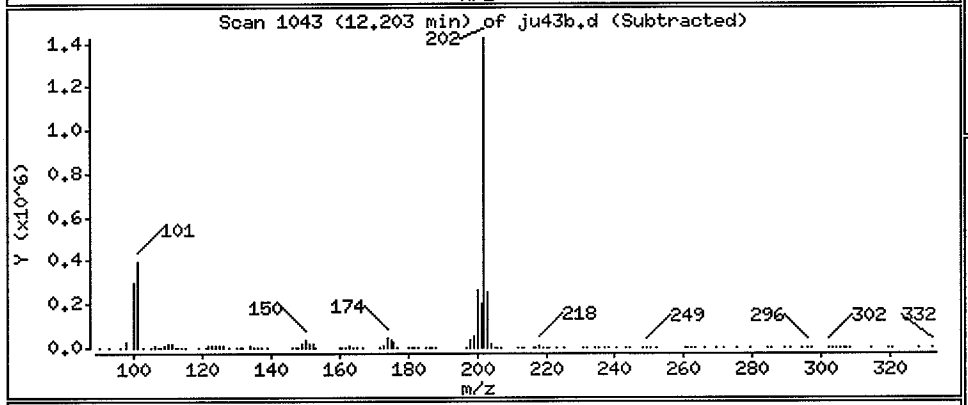
Column diameter: 0.25

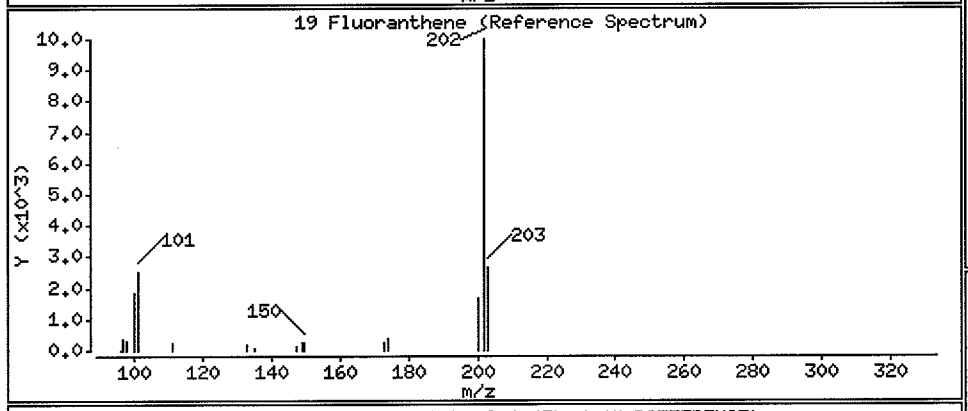
19 Fluoranthene

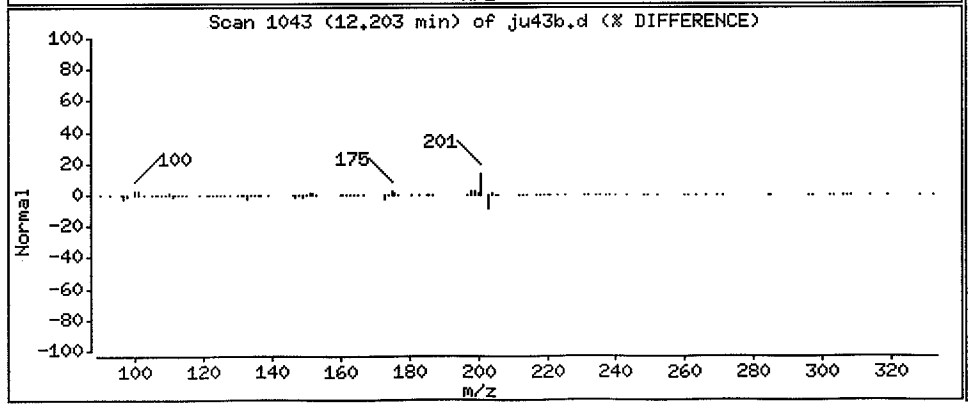
Concentration: 7028 ug/kg

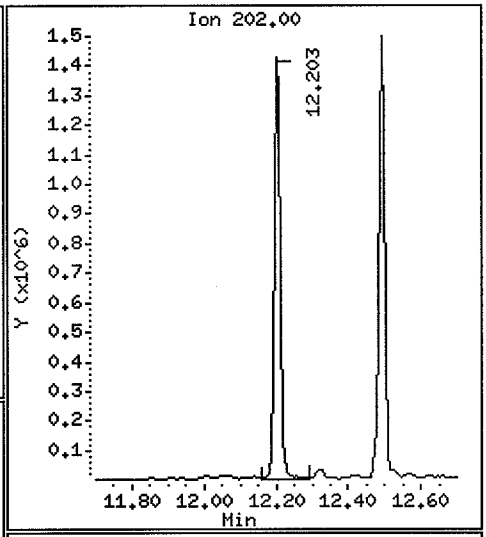
F

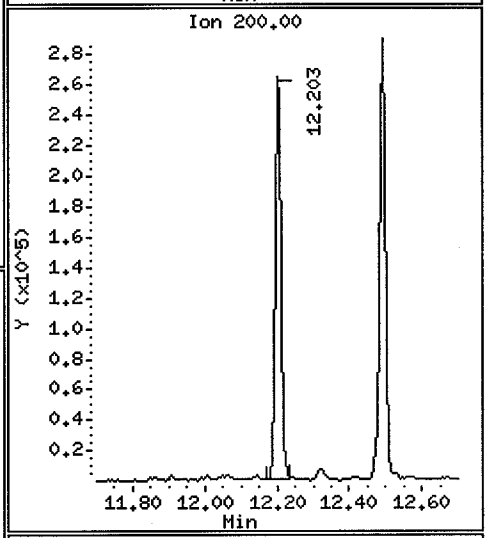


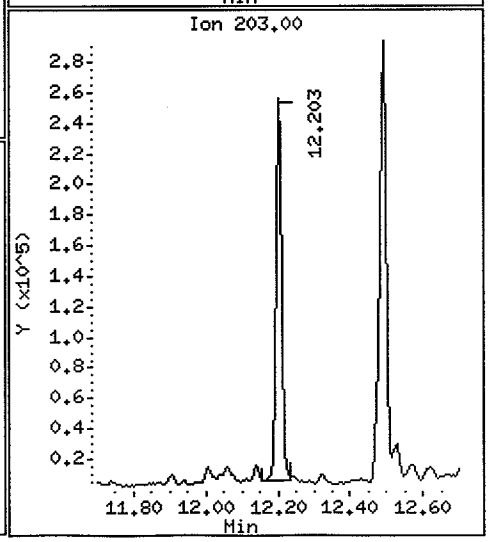












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

Operator: VTS

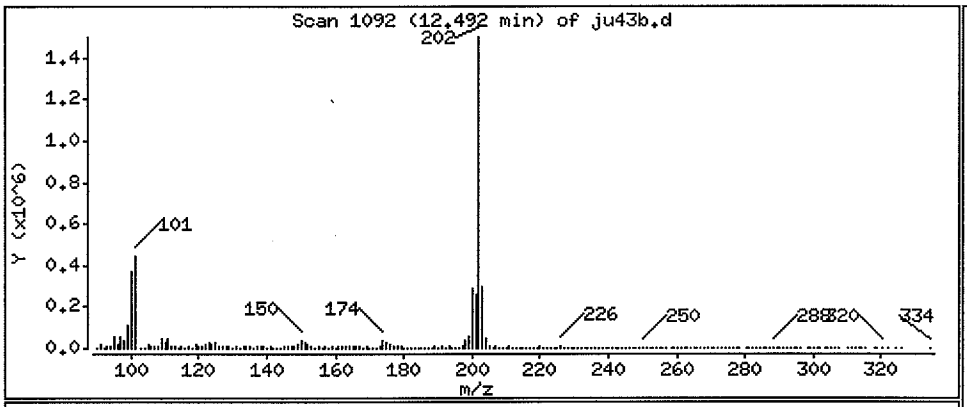
Column phase: ZB-5

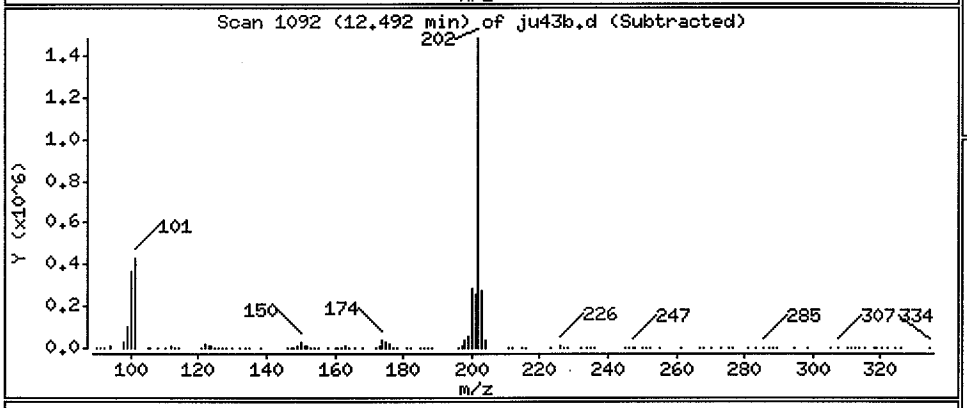
Column diameter: 0.25

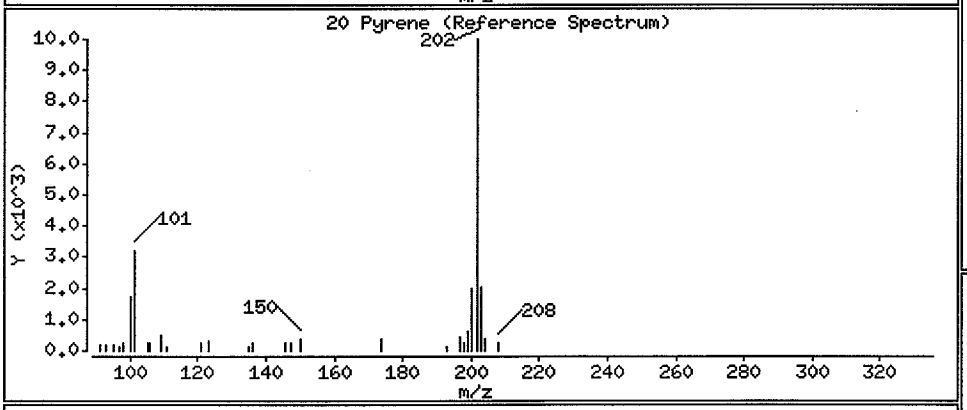
20 Pyrene

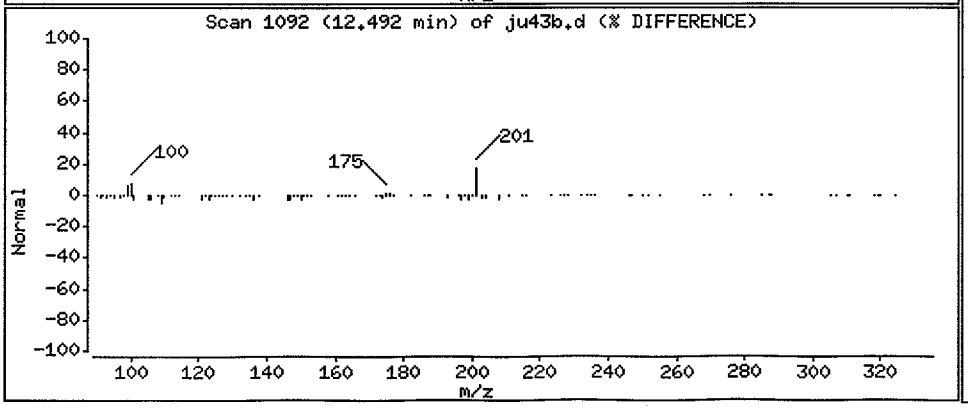
Concentration: 6004 ug/kg

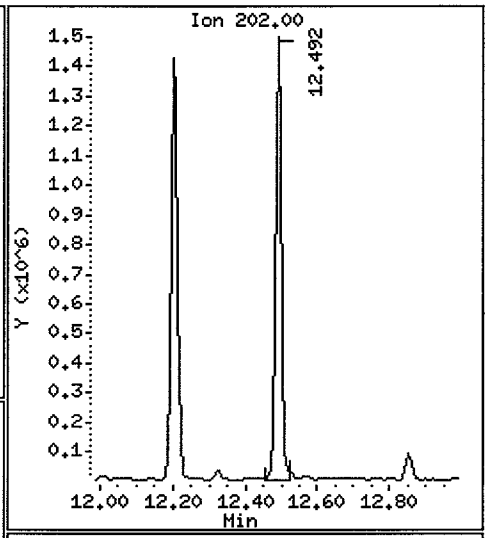
E

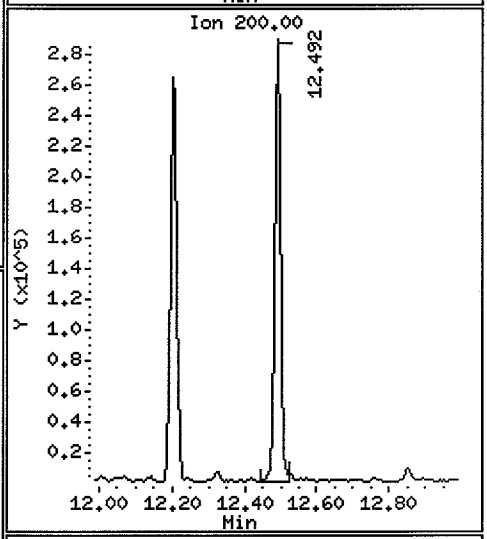


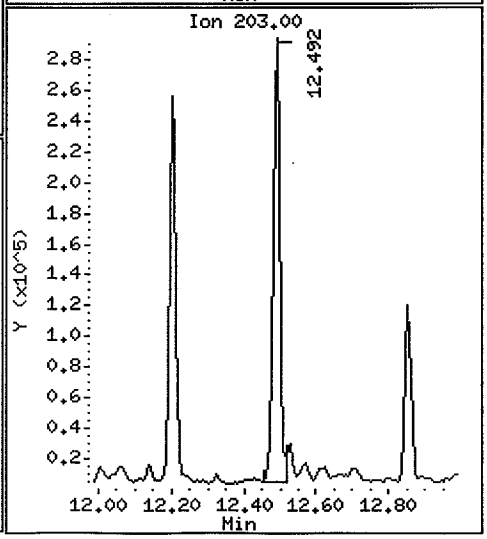












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

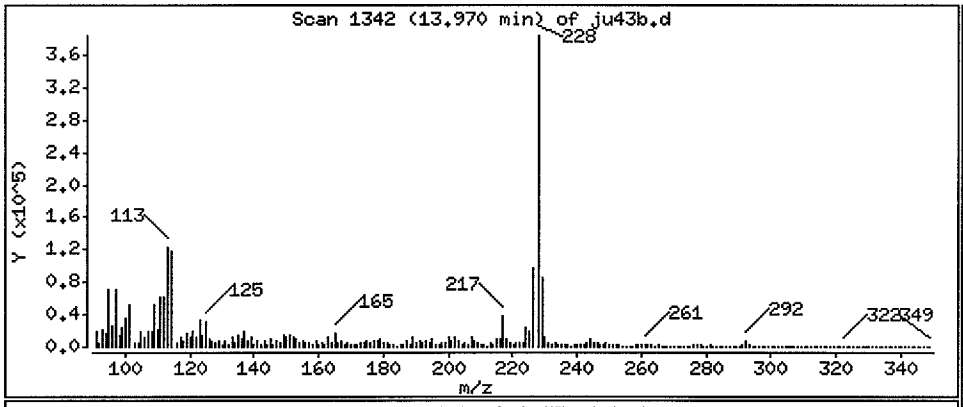
Operator: VTS

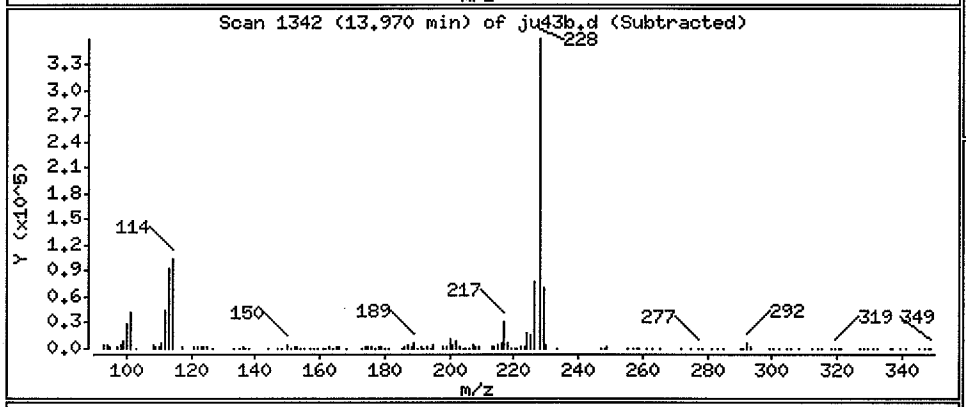
Column phase: ZB-5

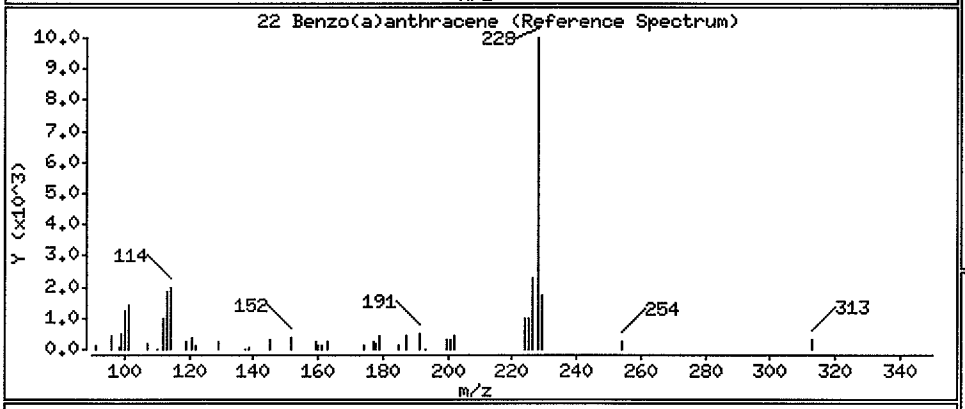
Column diameter: 0.25

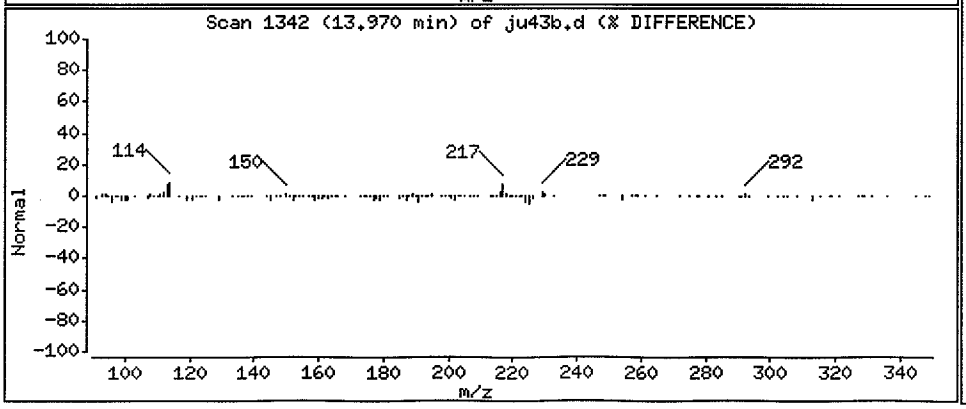
22 Benzo(a)anthracene

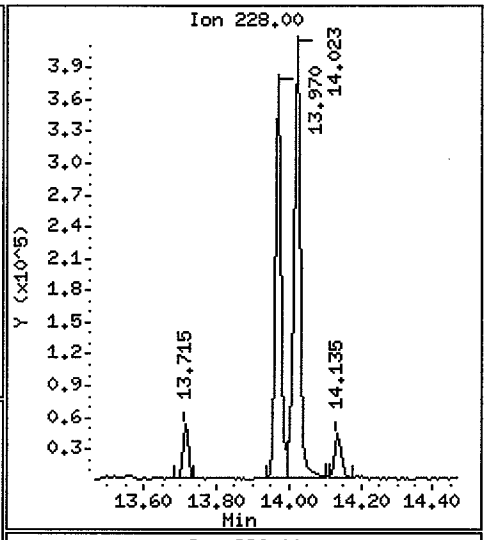
Concentration: 1759 ug/kg

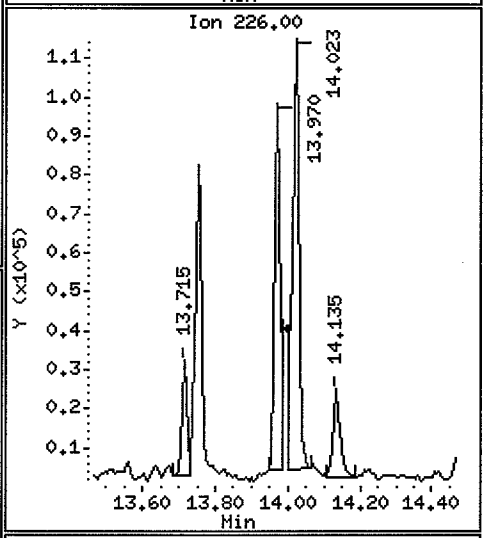


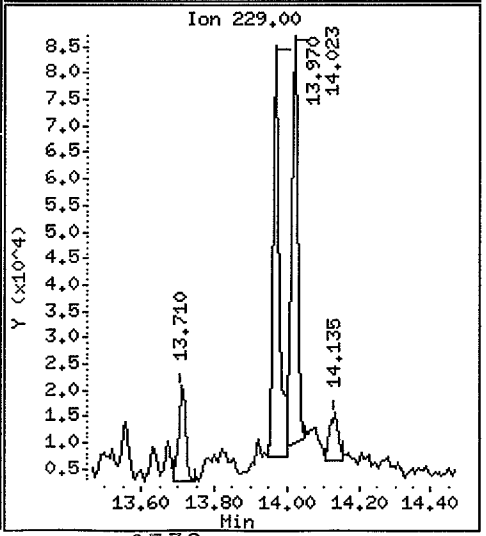












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

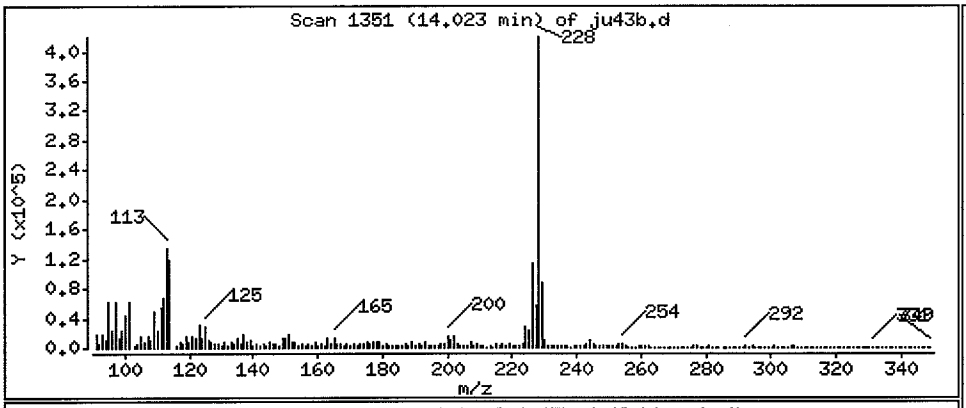
Operator: VTS

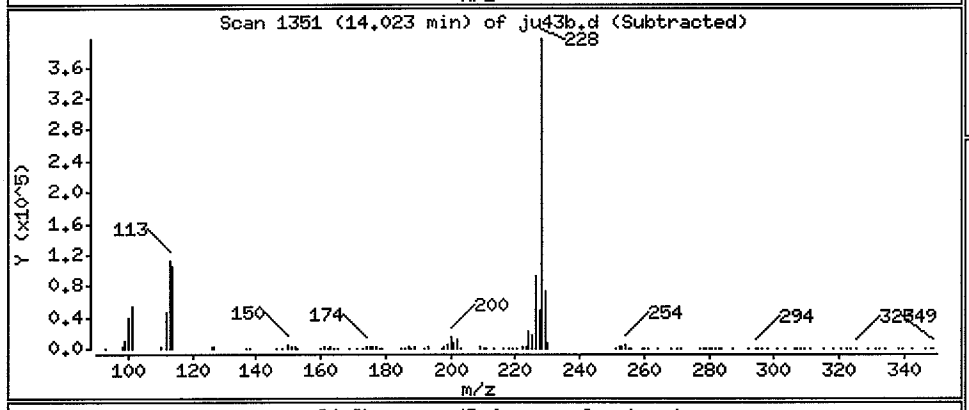
Column phase: ZB-5

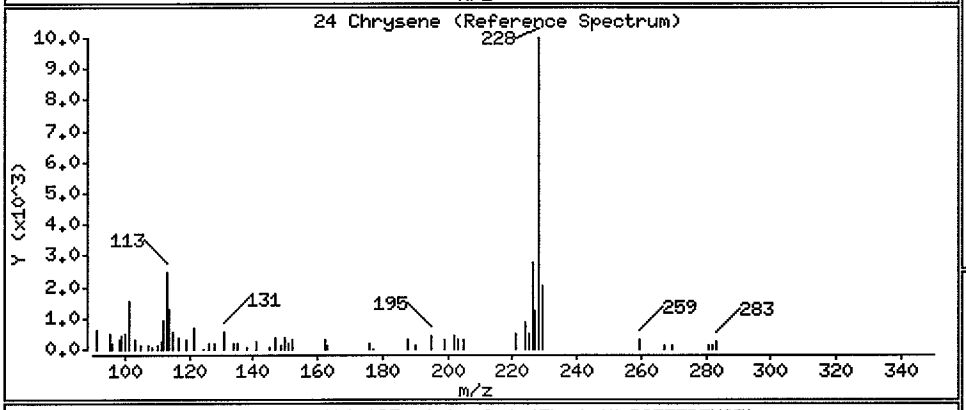
Column diameter: 0.25

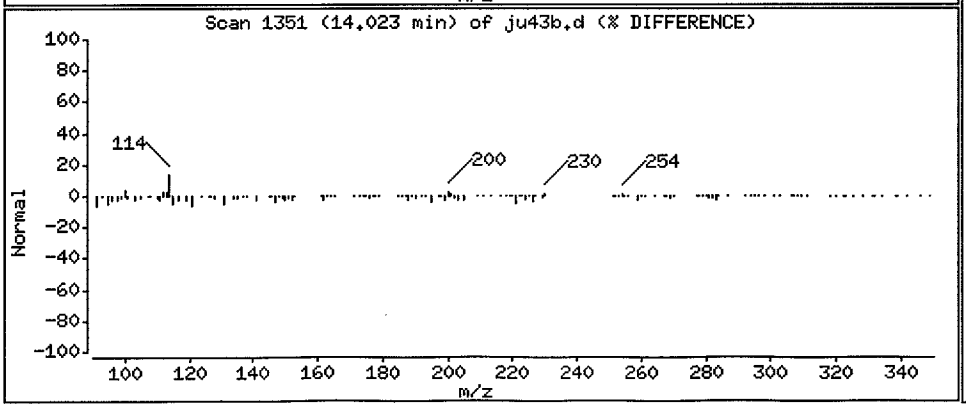
24 Chrysene

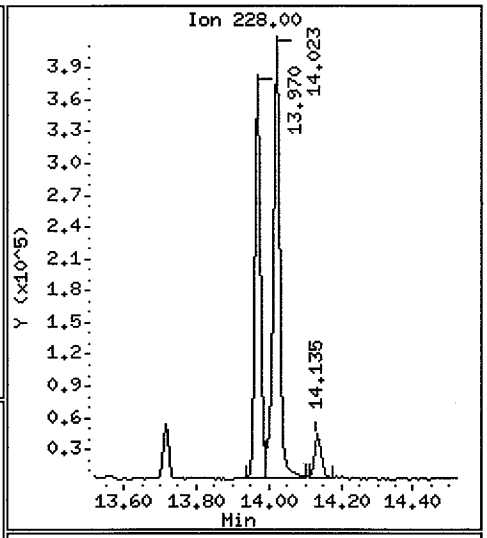
Concentration: 2347 ug/kg

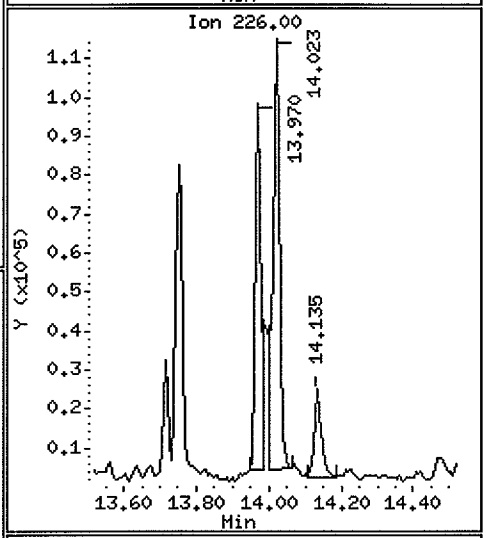


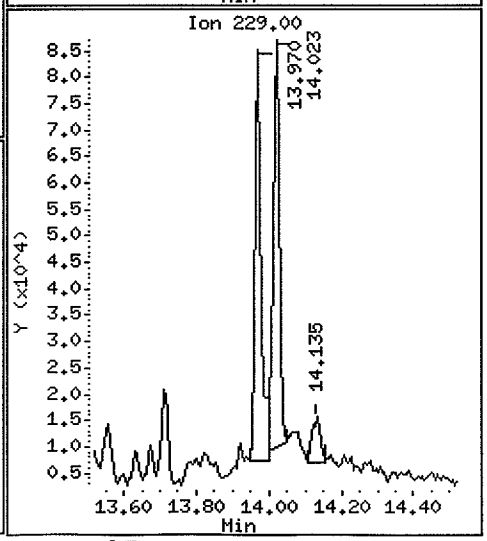












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

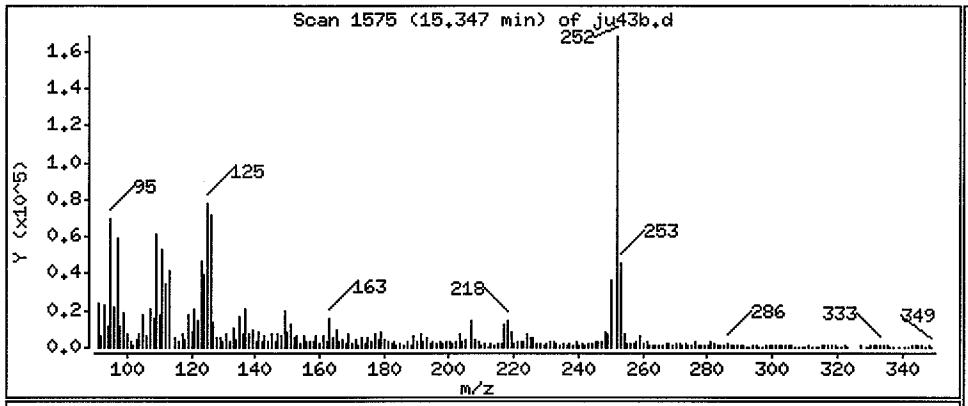
Operator: VTS

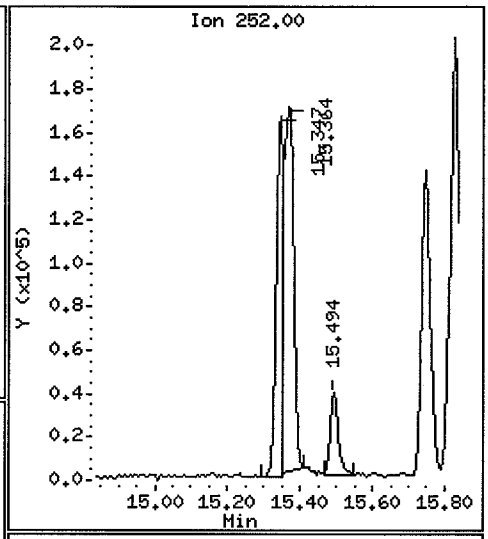
Column phase: ZB-5

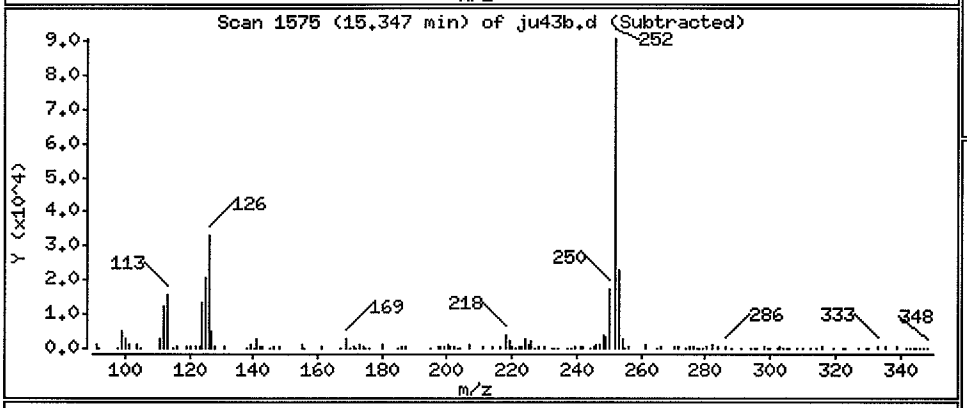
Column diameter: 0.25

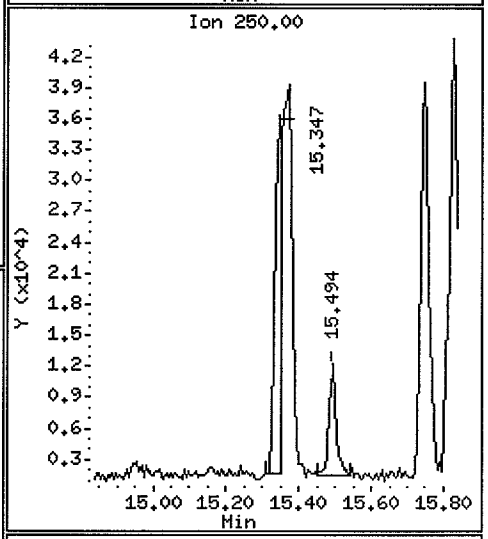
28 Benzo(b)fluoranthene

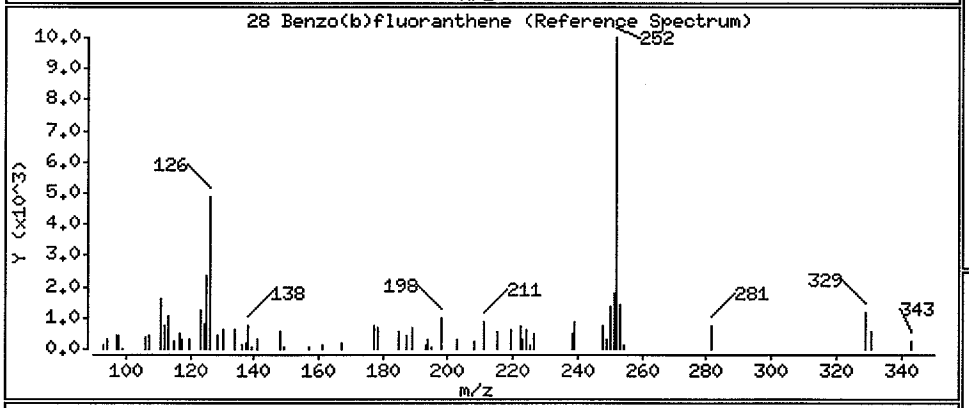
Concentration: 976.5 ug/kg

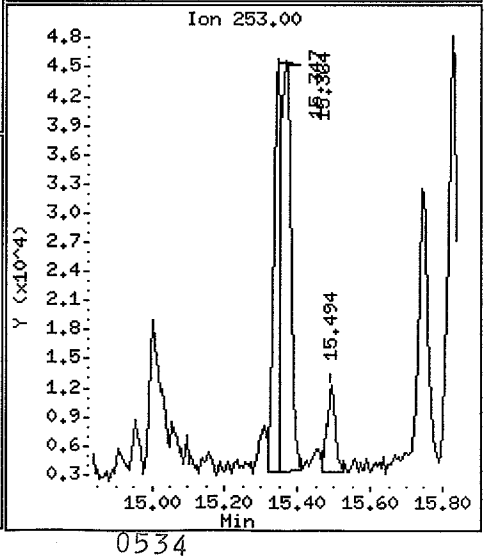


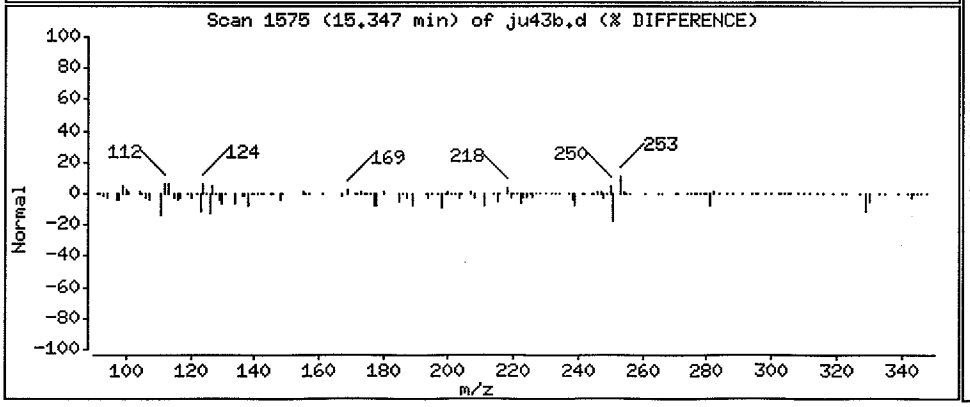












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

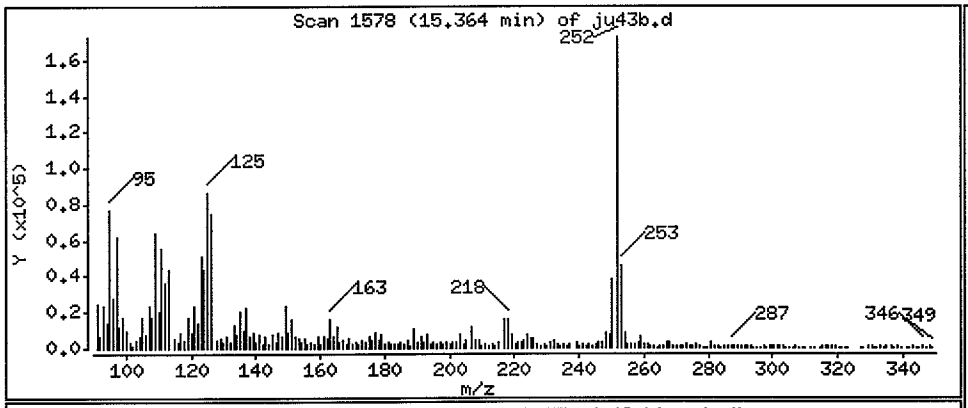
Operator: VTS

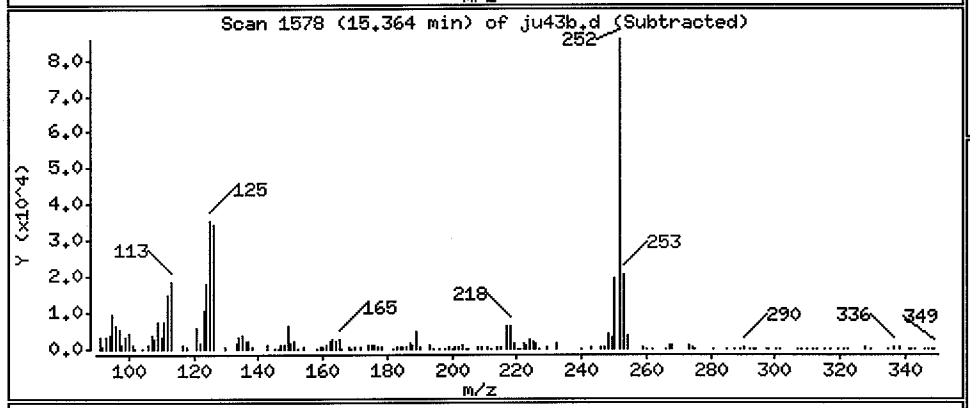
Column phase: ZB-5

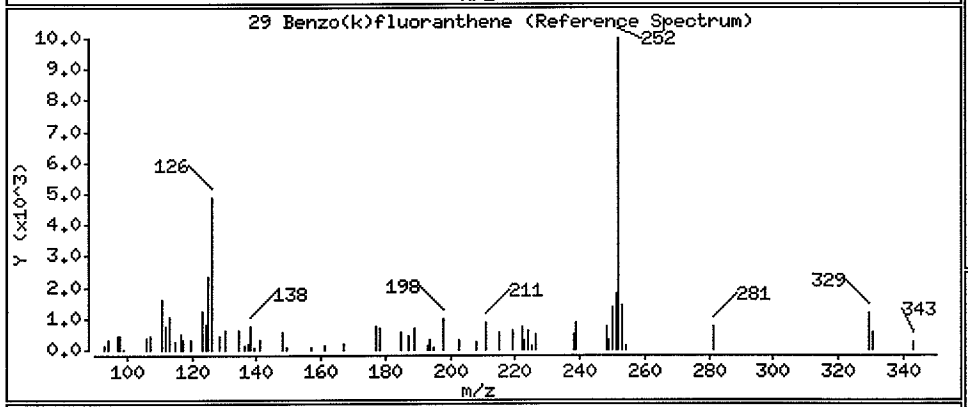
Column diameter: 0.25

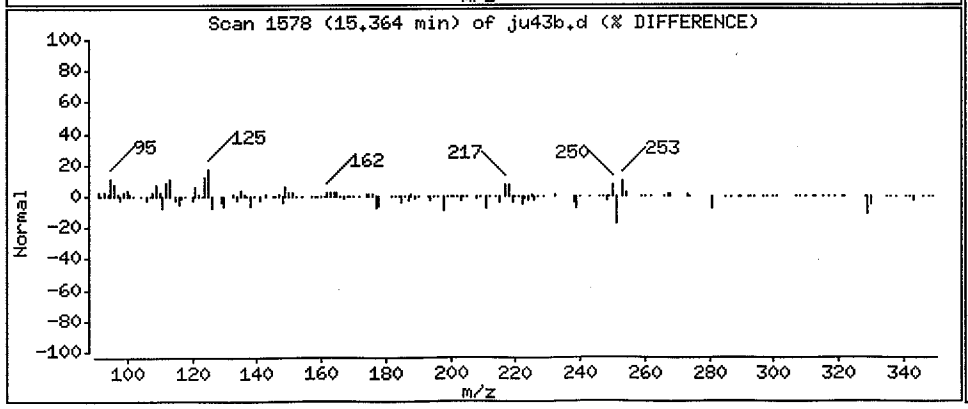
29 Benzo(k)fluoranthene

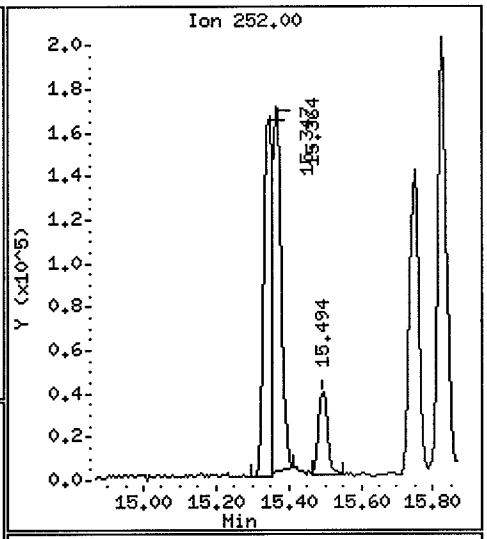
Concentration: 1227 ug/kg

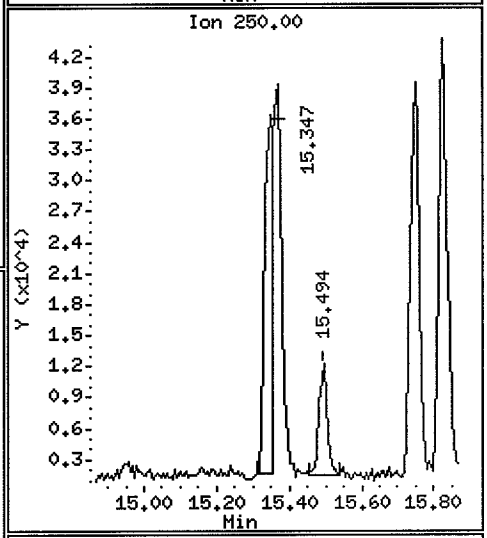


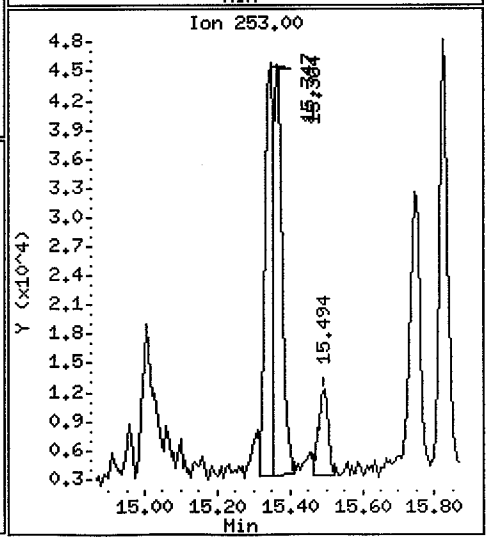












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

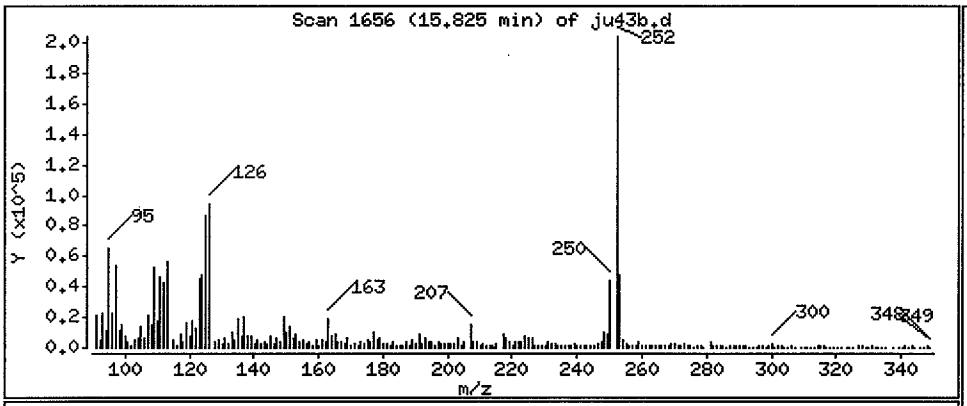
Operator: VTS

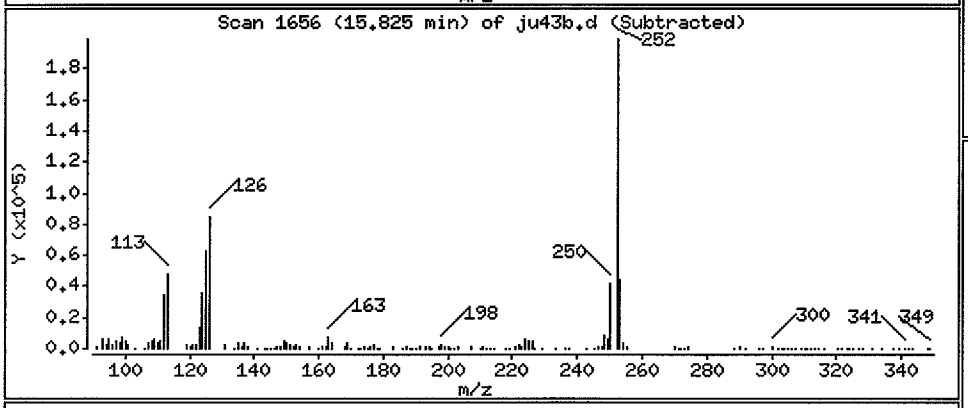
Column phase: ZB-5

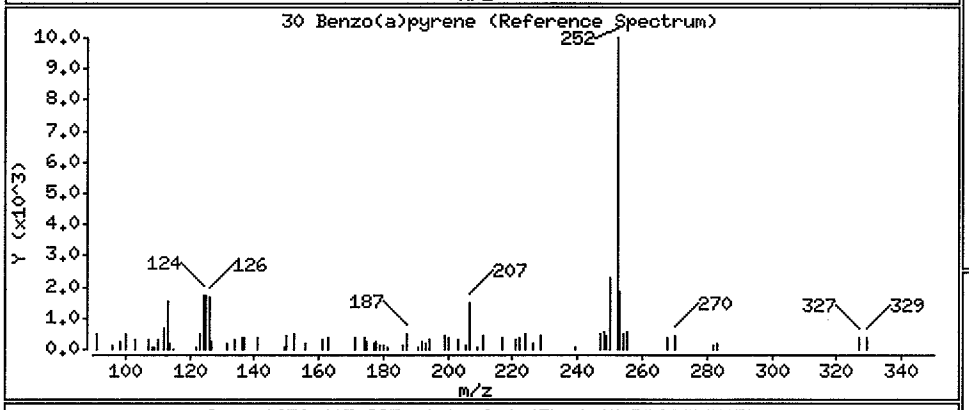
Column diameter: 0.25

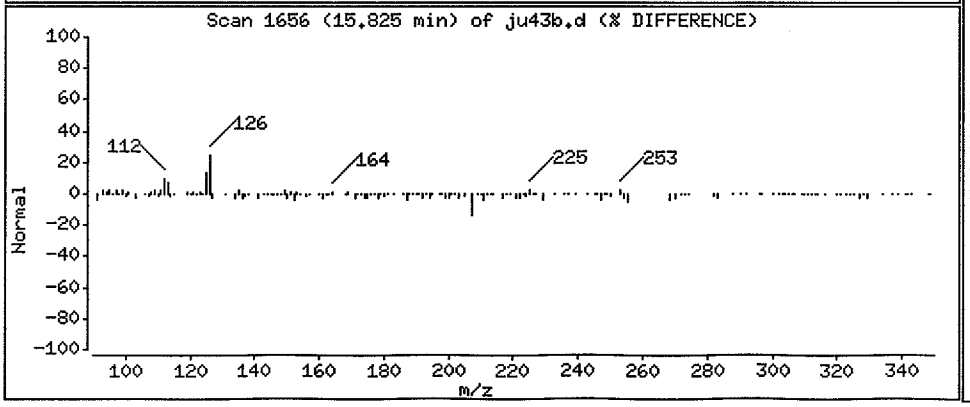
30 Benzo(a)pyrene

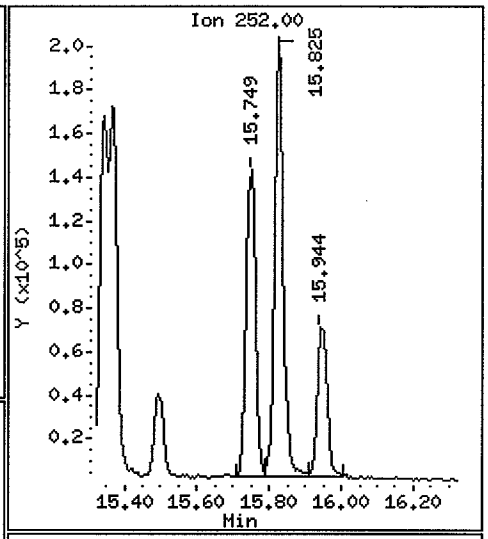
Concentration: 1549 ug/kg

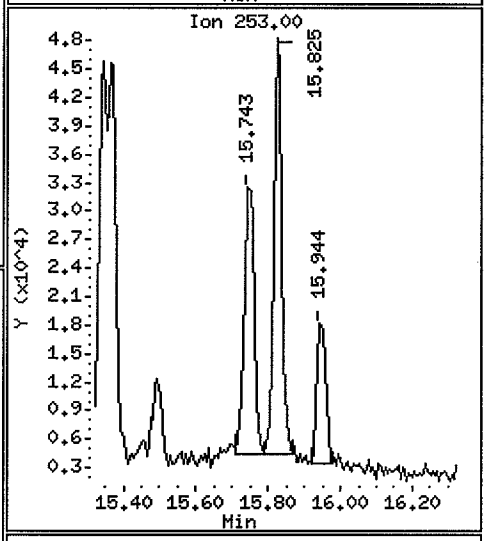


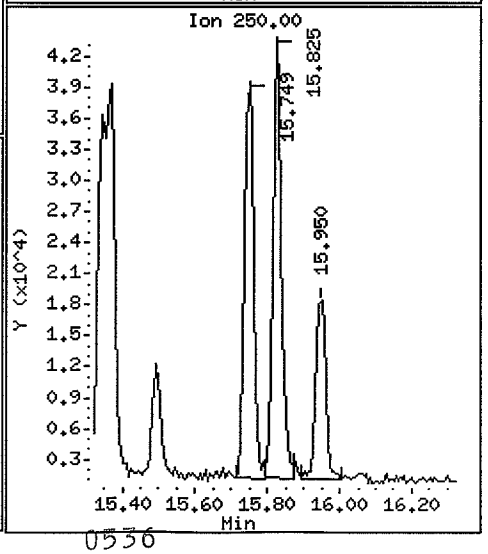












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

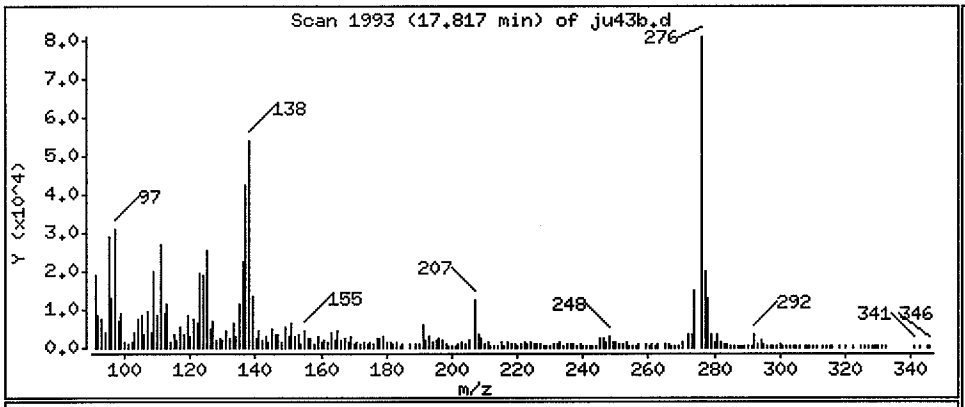
Operator: VTS

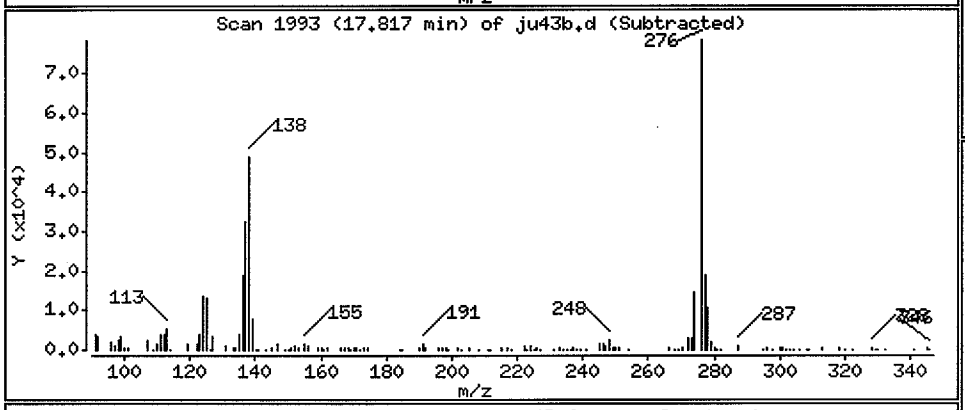
Column phase: ZB-5

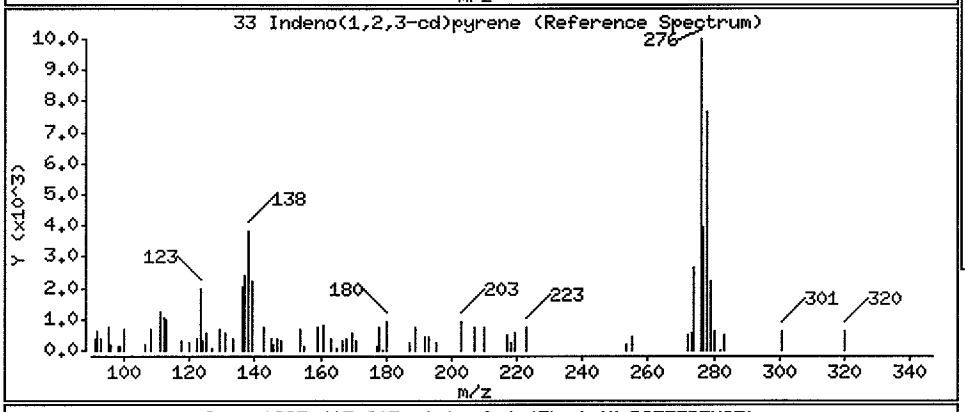
Column diameter: 0.25

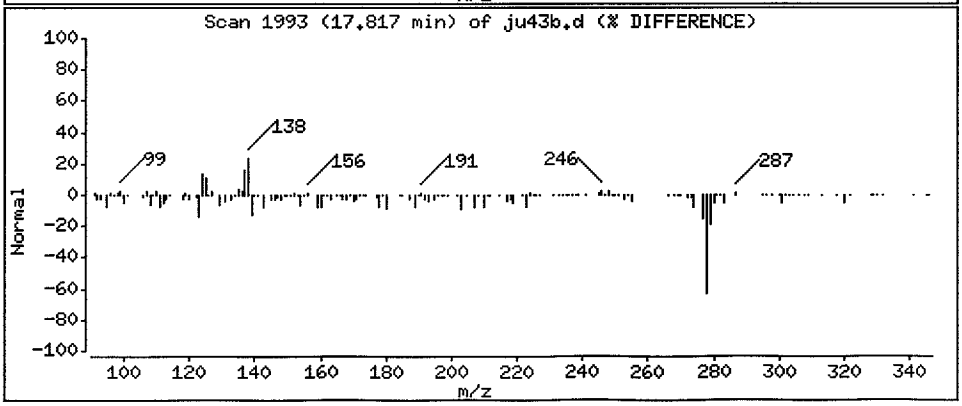
33 Indeno(1,2,3-cd)pyrene

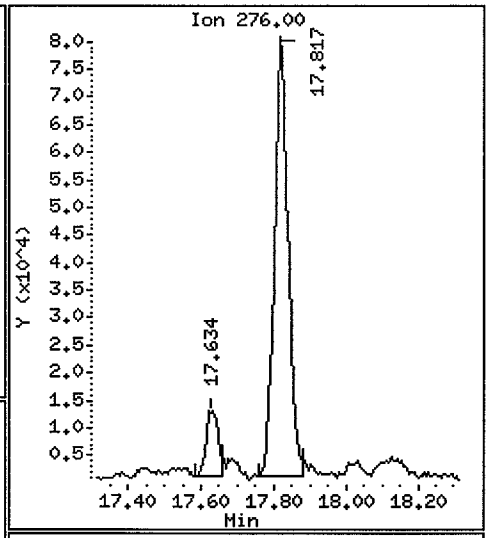
Concentration: 871.9 ug/kg

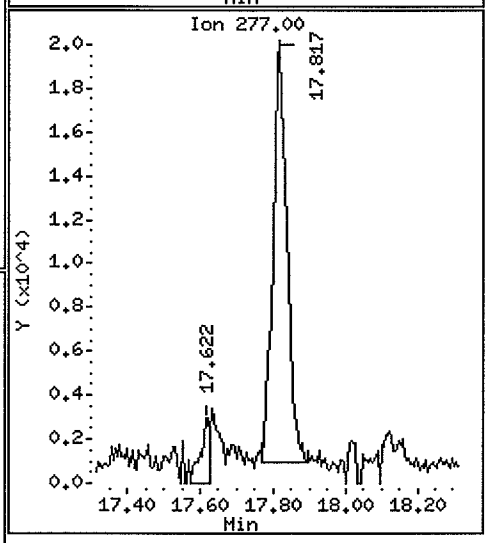












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

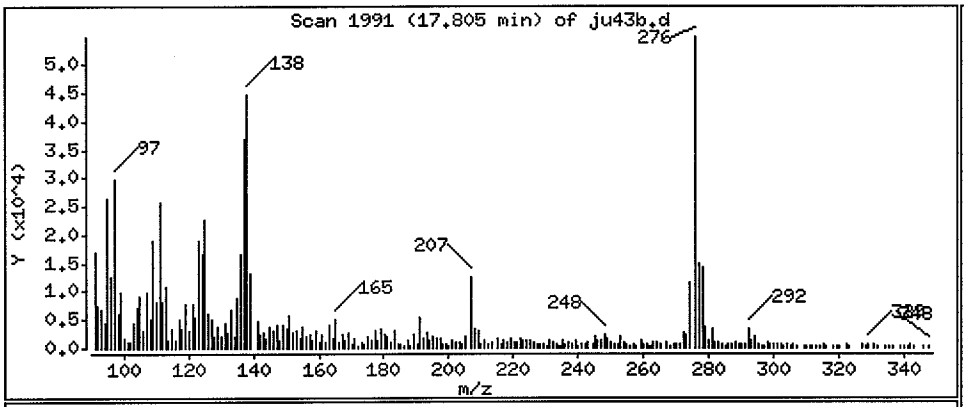
Operator: VTS

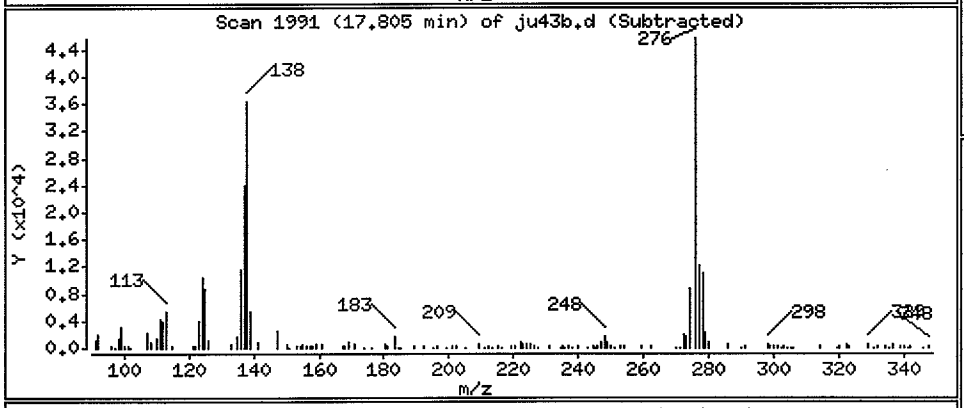
Column phase: ZB-5

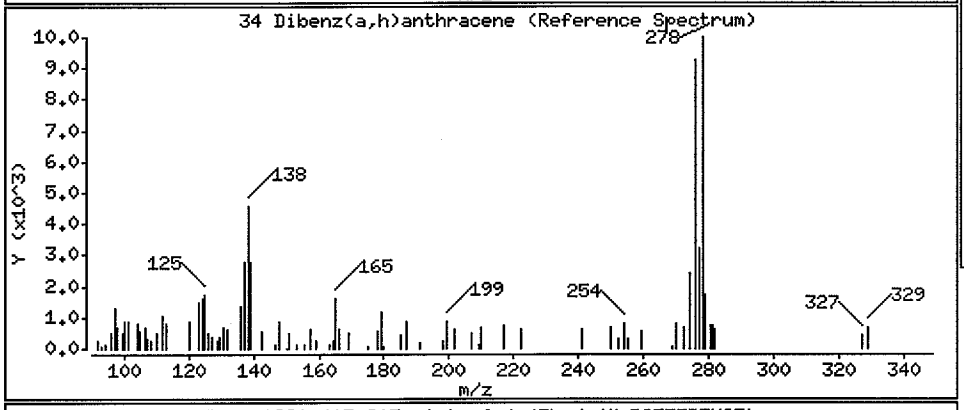
Column diameter: 0.25

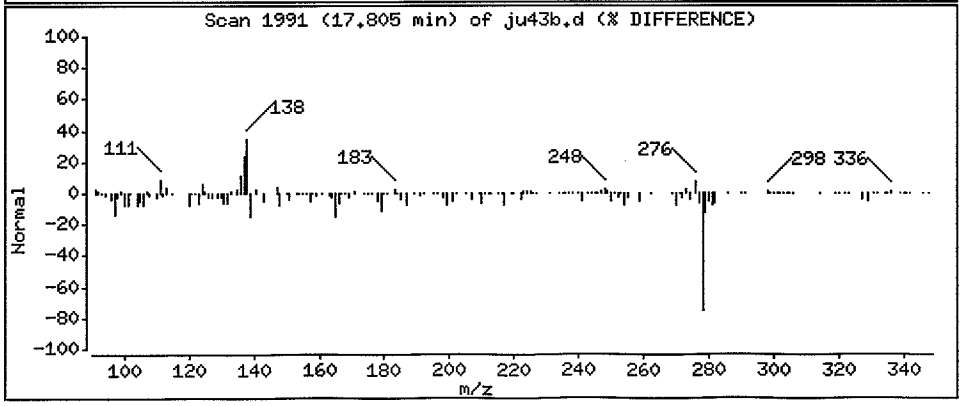
34 Dibenz(a,h)anthracene

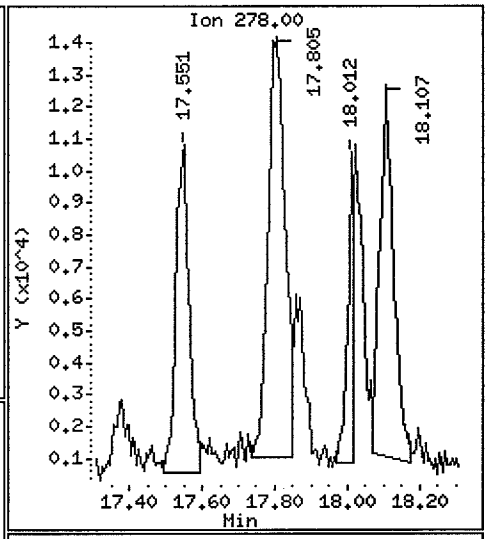
Concentration: 221.6 ug/kg

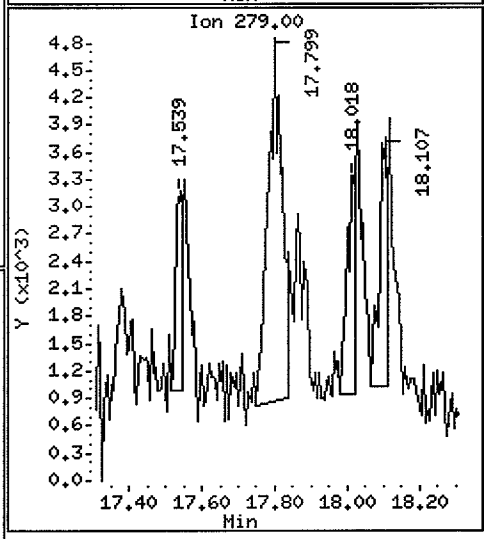












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

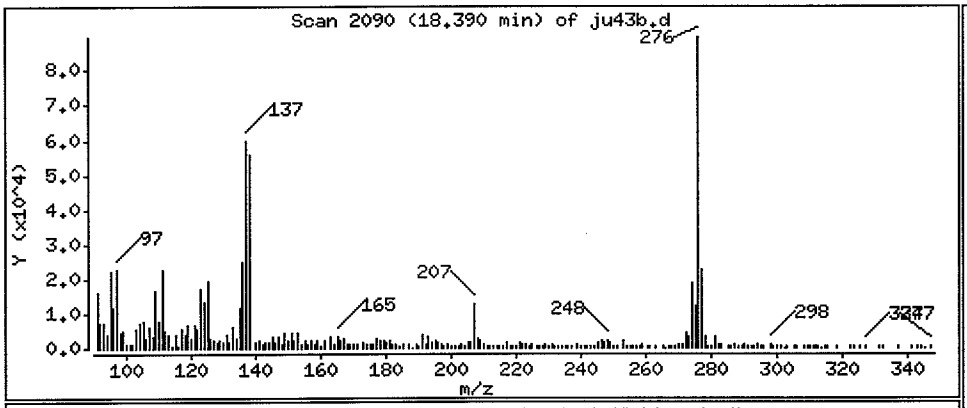
Operator: VTS

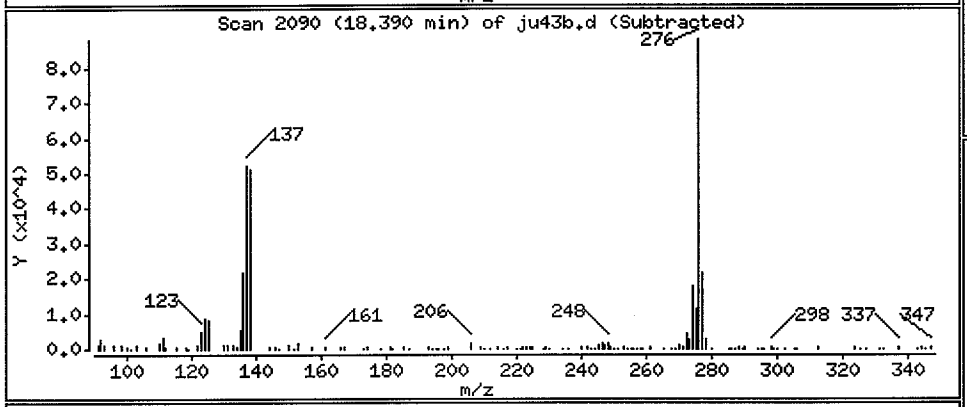
Column phase: ZB-5

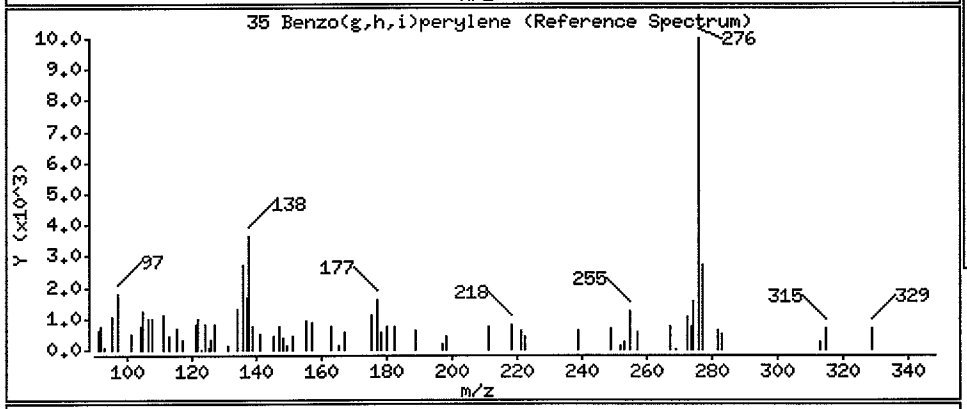
Column diameter: 0.25

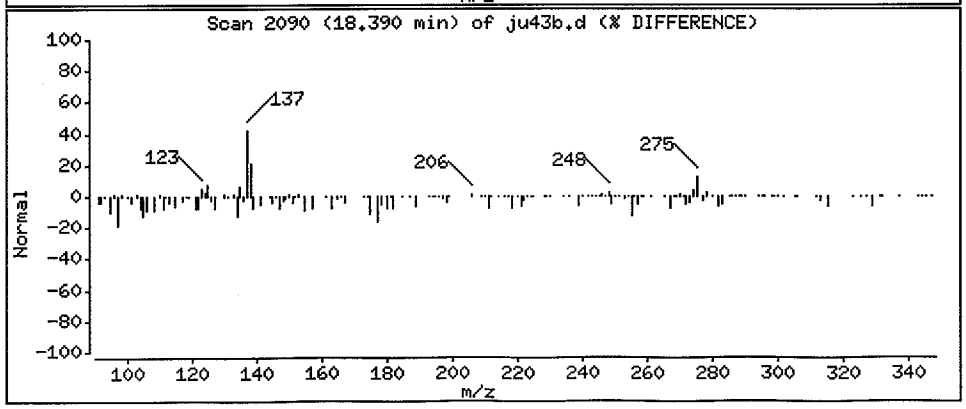
35 Benzo(g,h,i)perylene

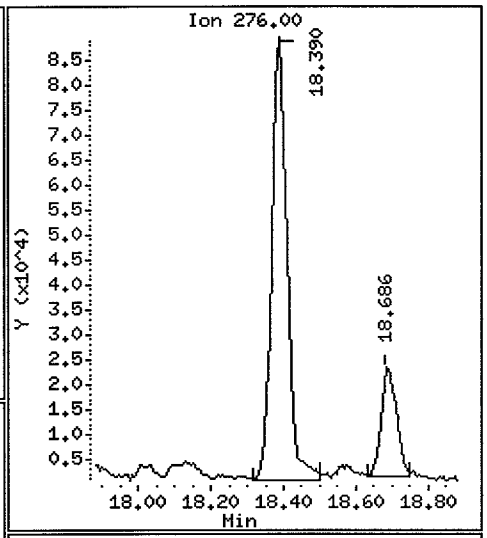
Concentration: 1242 ug/kg

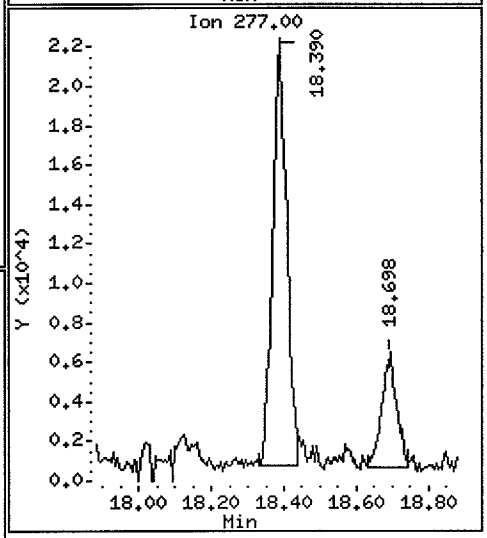












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

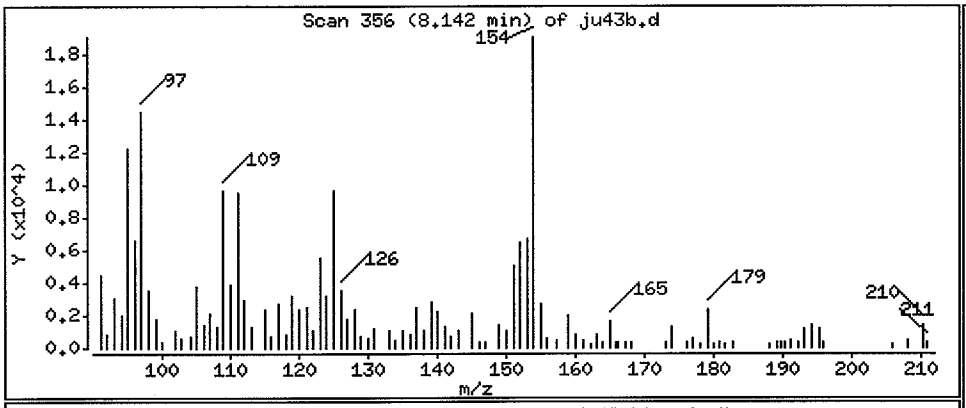
Operator: VTS

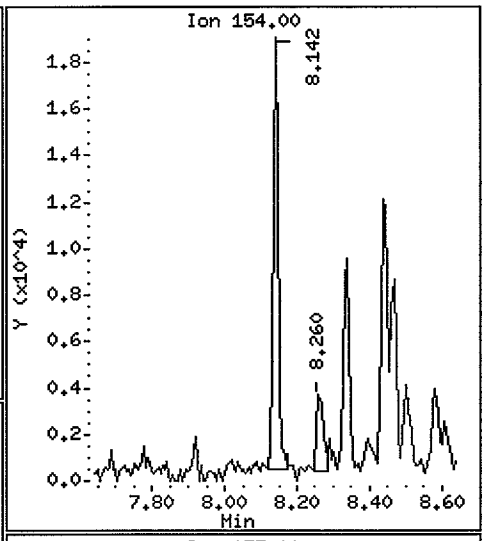
Column phase: ZB-5

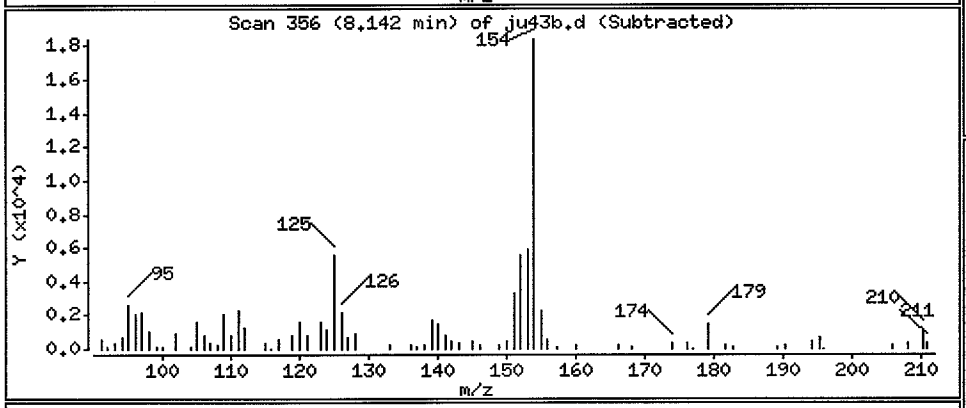
Column diameter: 0.25

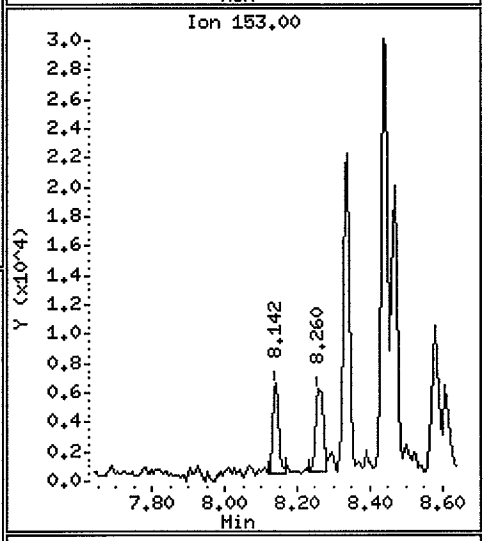
48 Biphenyl

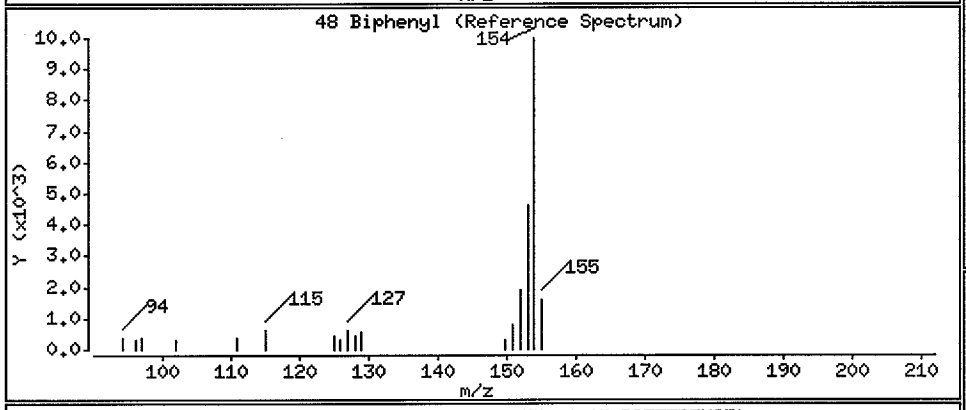
Concentration: 77.78 ug/kg

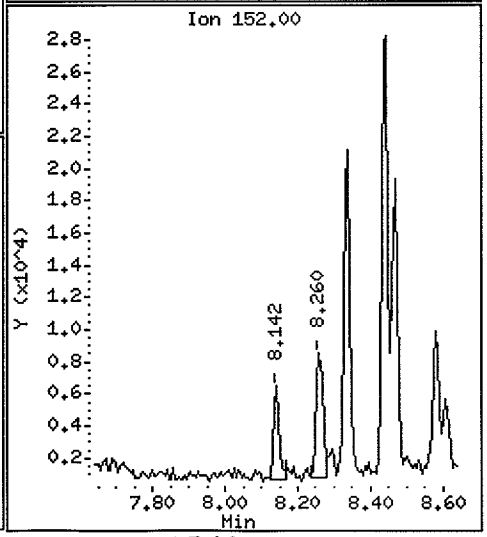


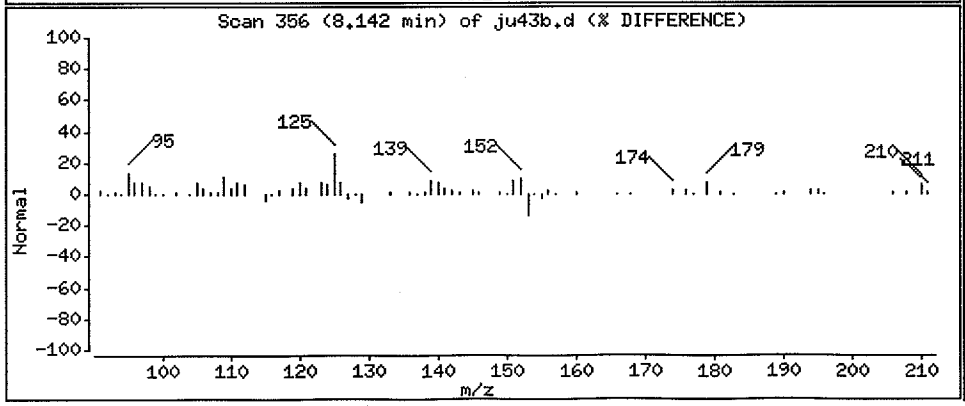












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

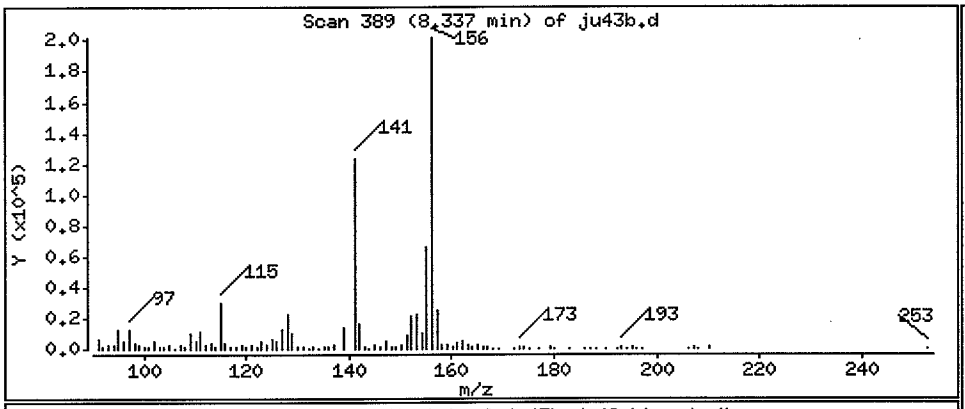
Operator: VTS

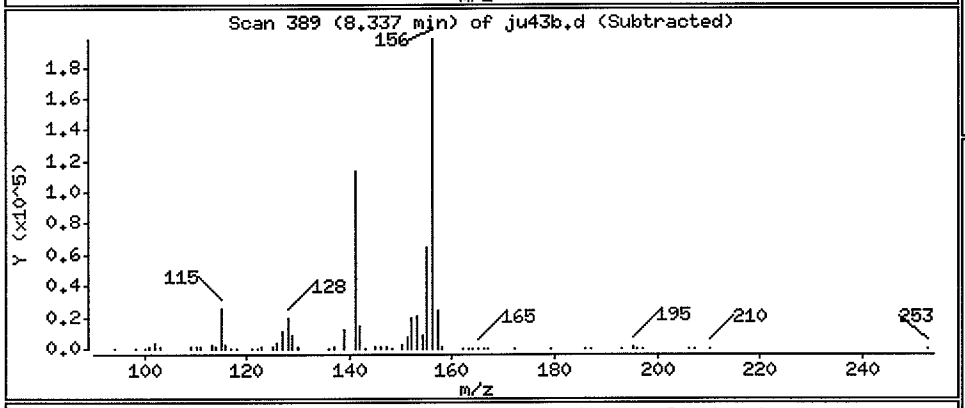
Column phase: ZB-5

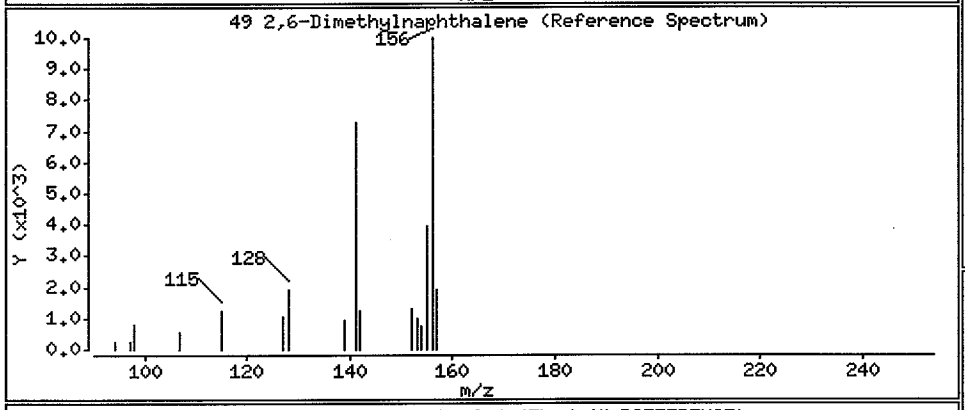
Column diameter: 0.25

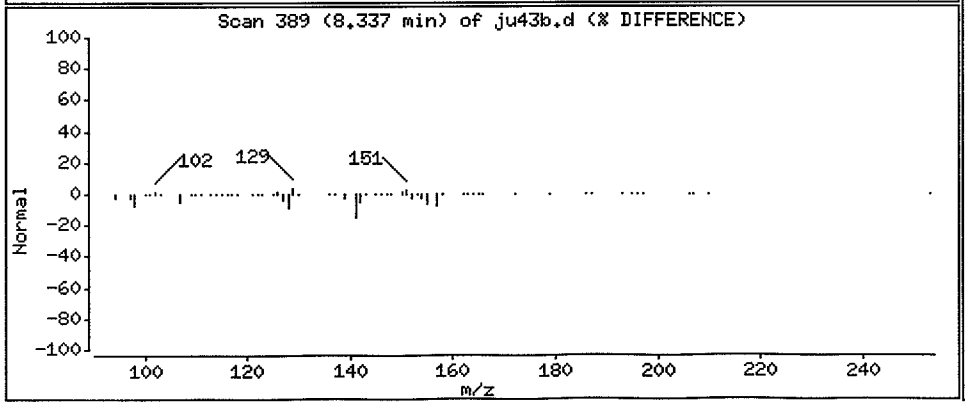
49 2,6-Dimethylnaphthalene

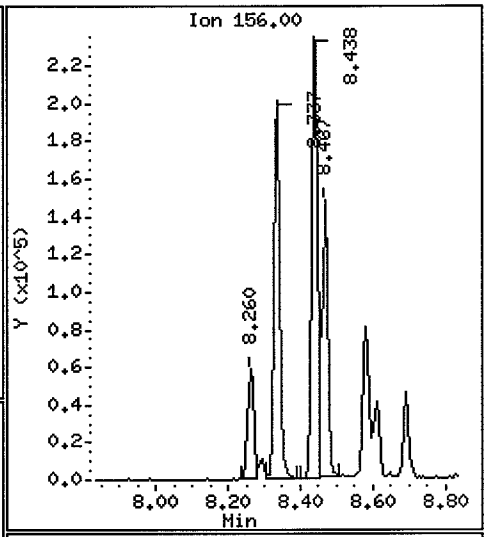
Concentration: 1263 ug/kg

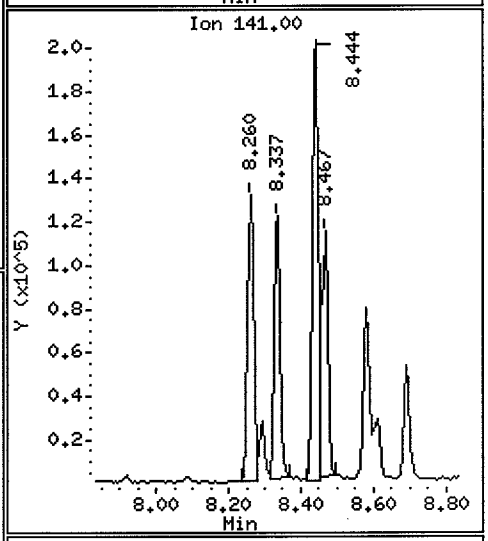


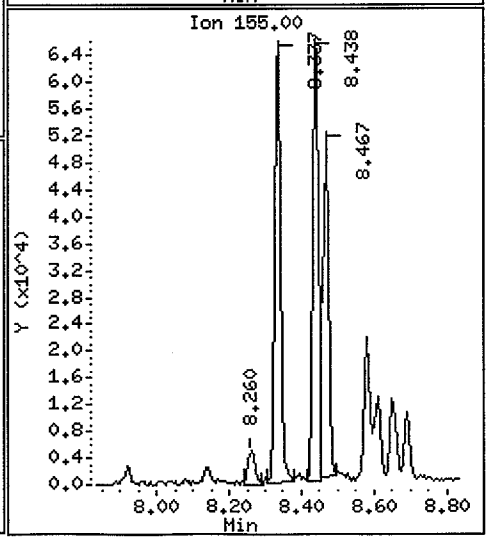












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

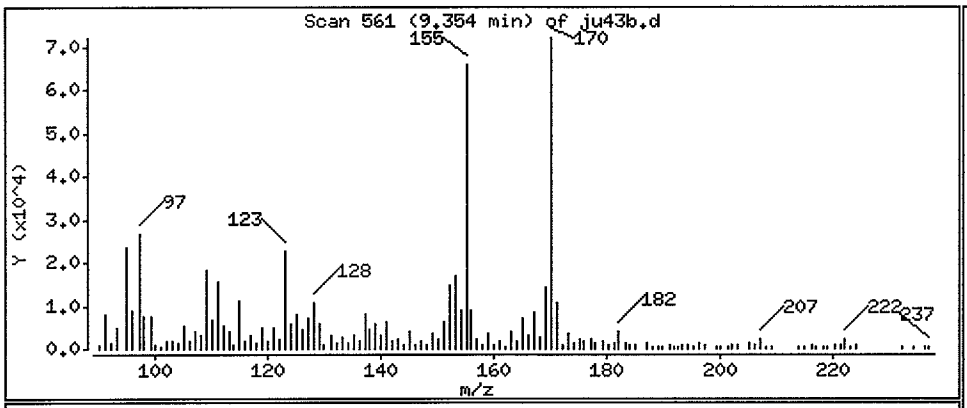
Operator: VTS

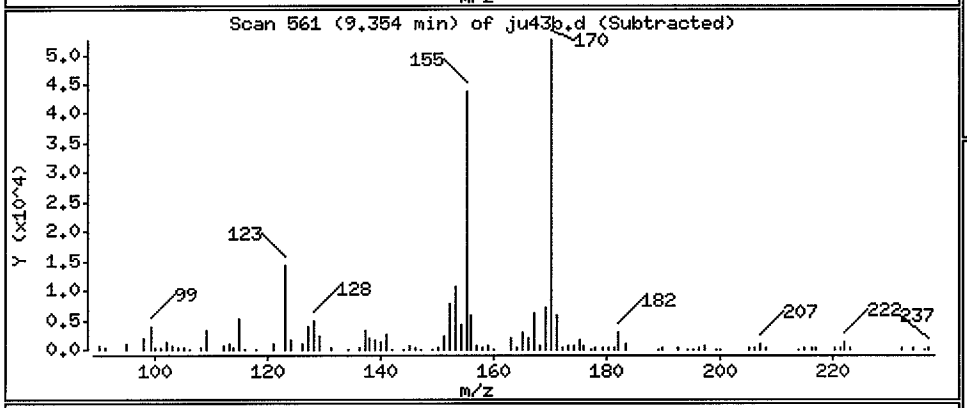
Column phase: ZB-5

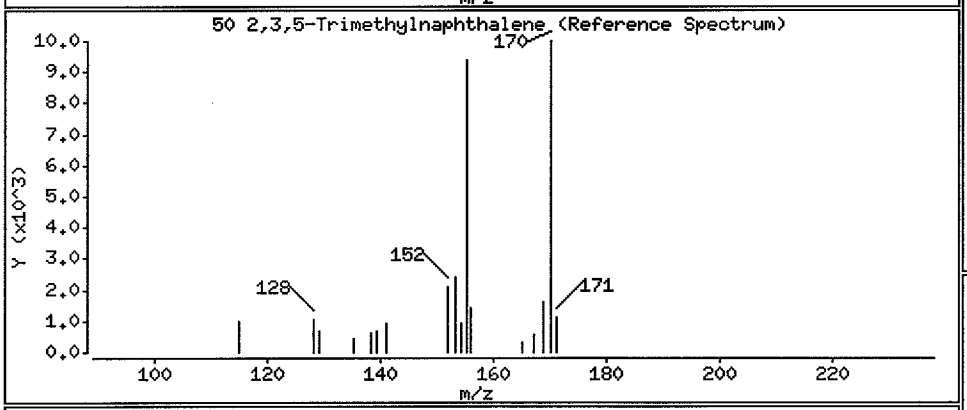
Column diameter: 0.25

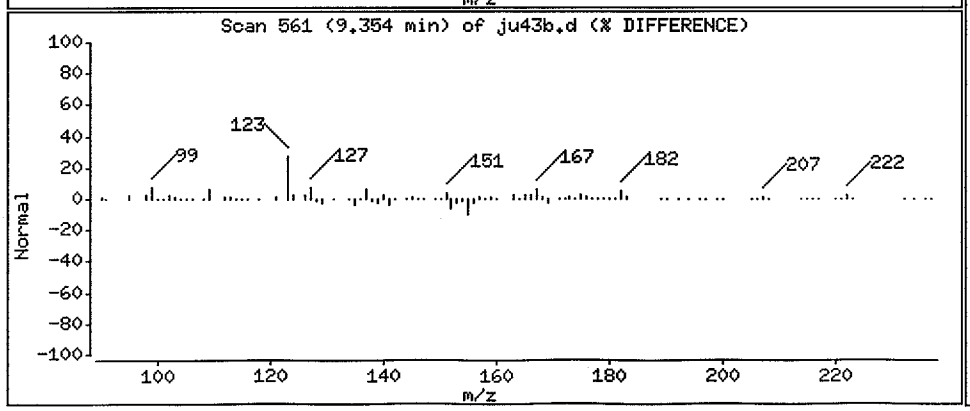
50 2,3,5-Trimethylnaphthalene

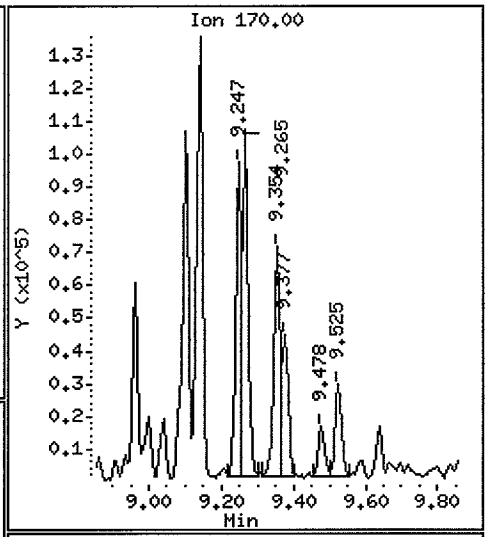
Concentration: 621.9 ug/kg

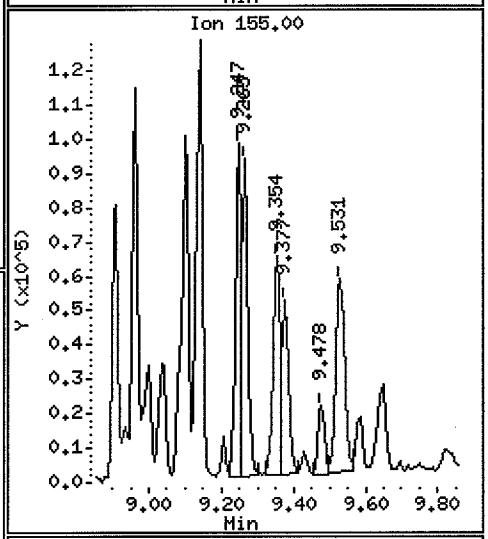


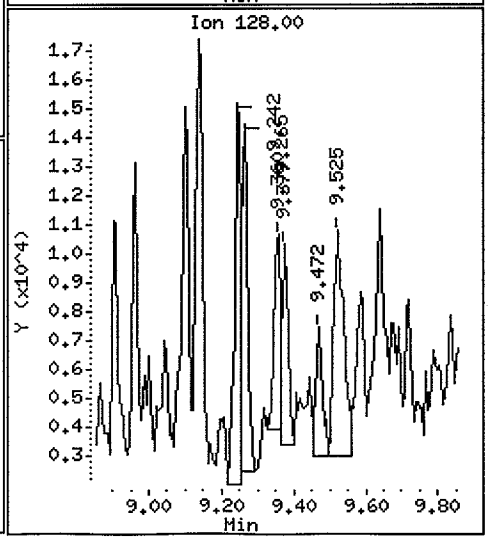












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

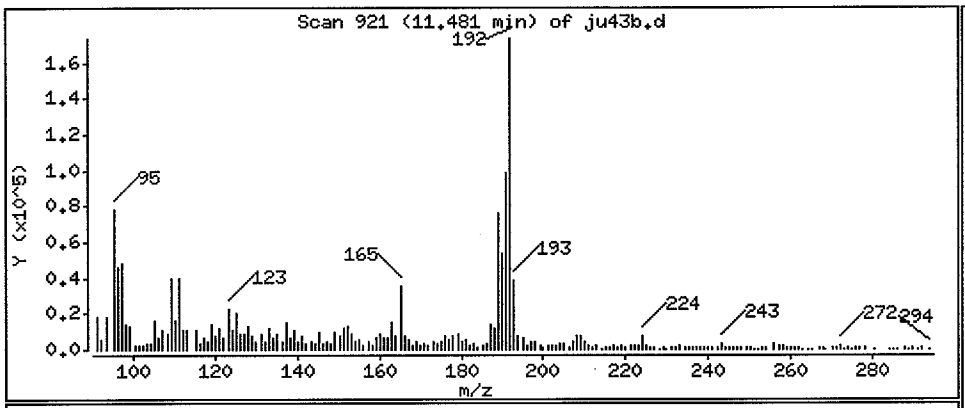
Operator: VTS

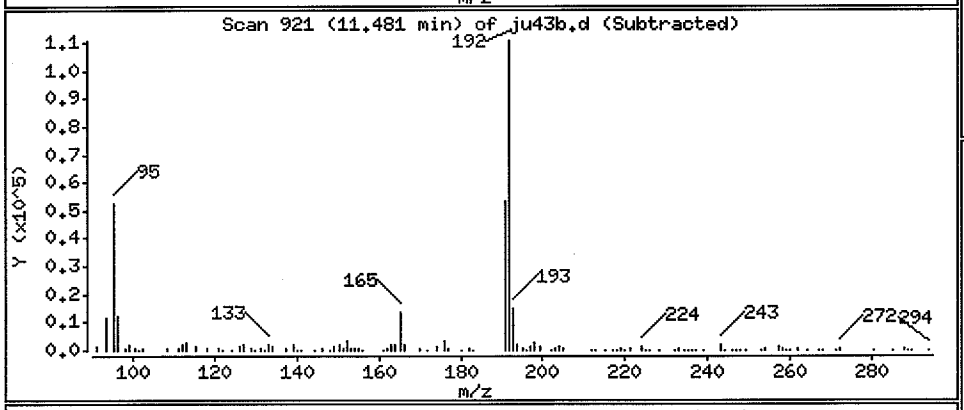
Column phase: ZB-5

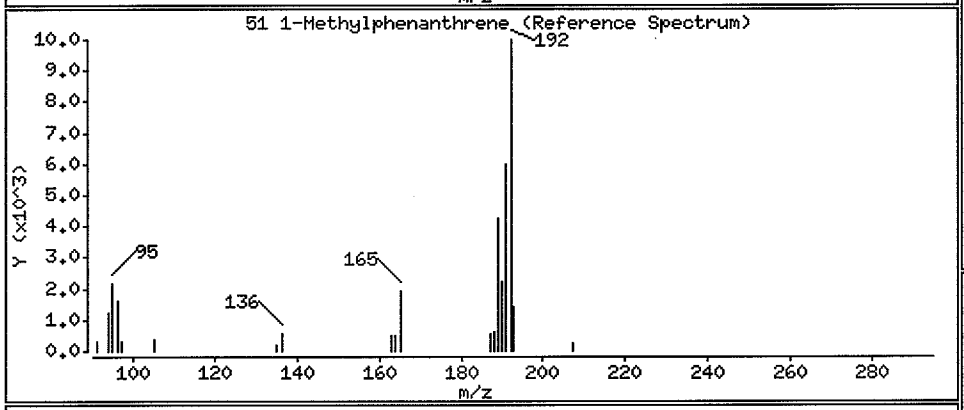
Column diameter: 0.25

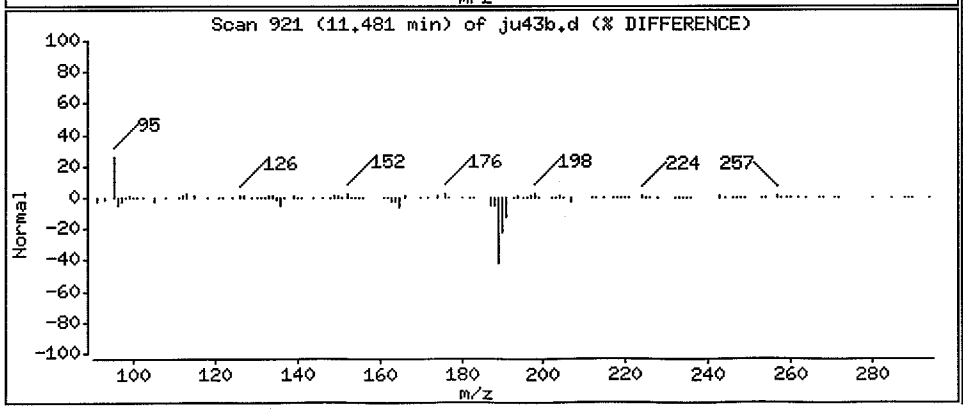
51 1-Methylphenanthrene

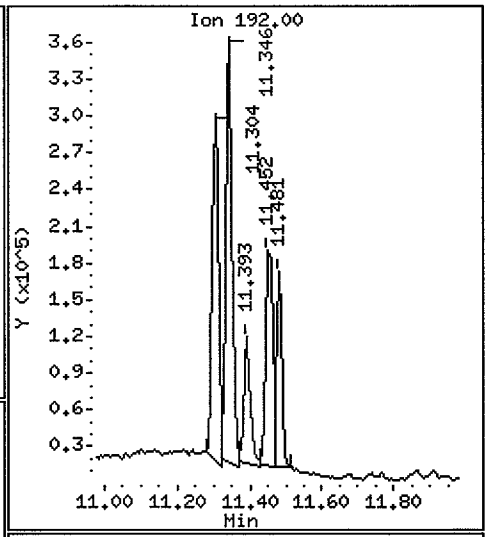
Concentration: 922.9 ug/kg

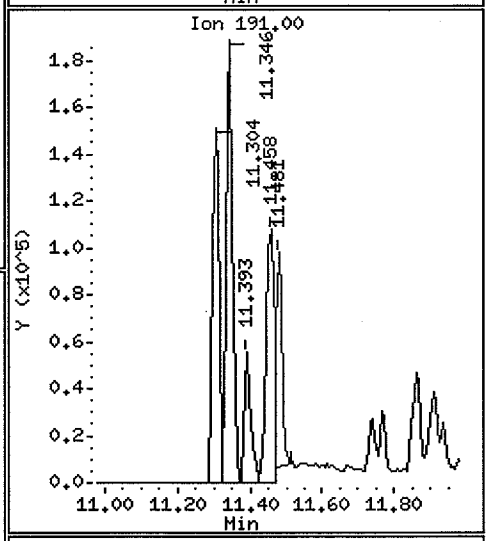


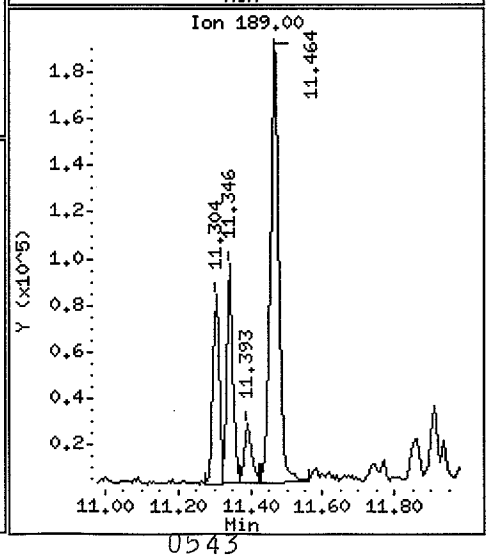












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

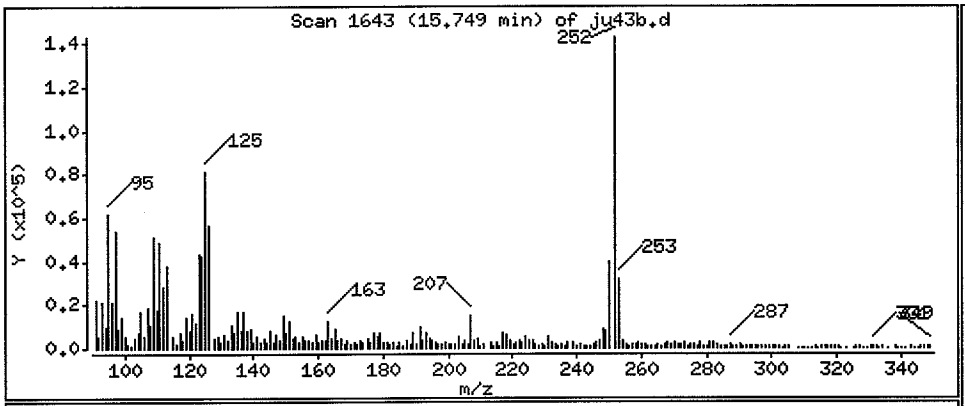
Operator: VTS

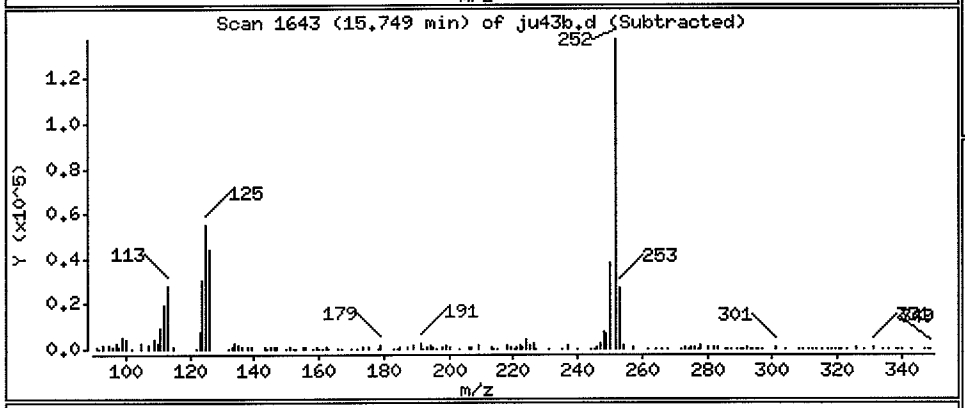
Column phase: ZB-5

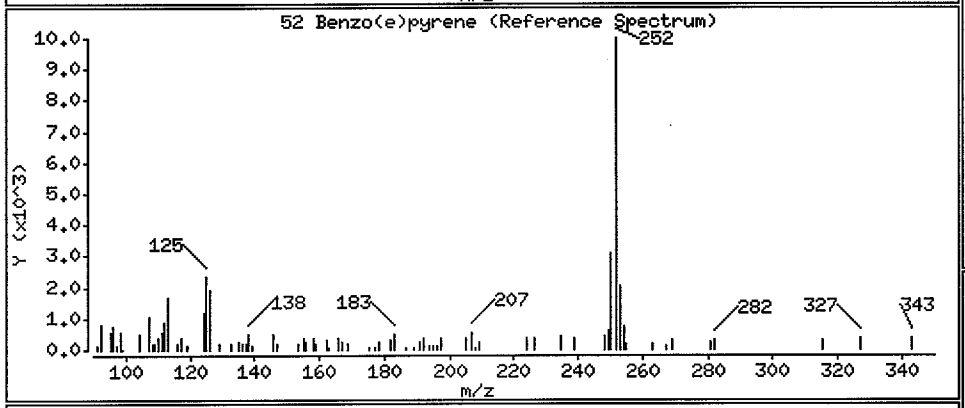
Column diameter: 0.25

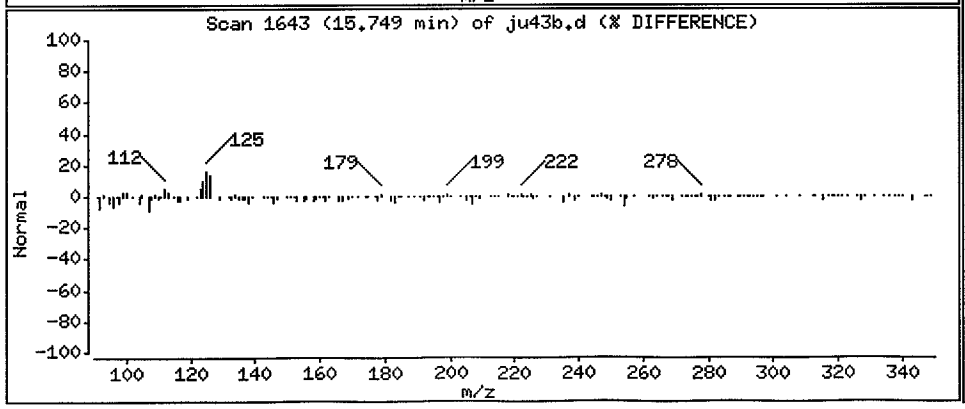
52 Benzo(e)pyrene

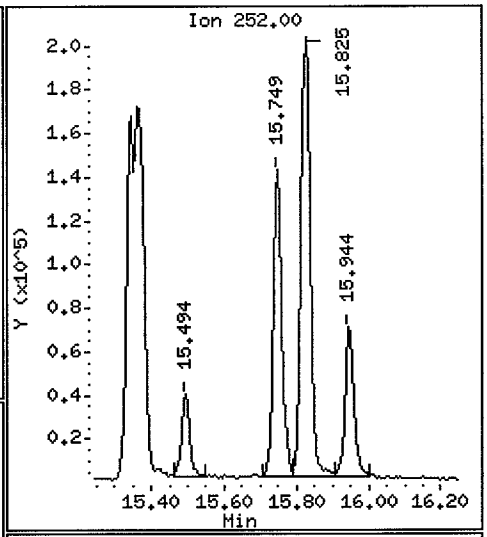
Concentration: 991.4 ug/kg

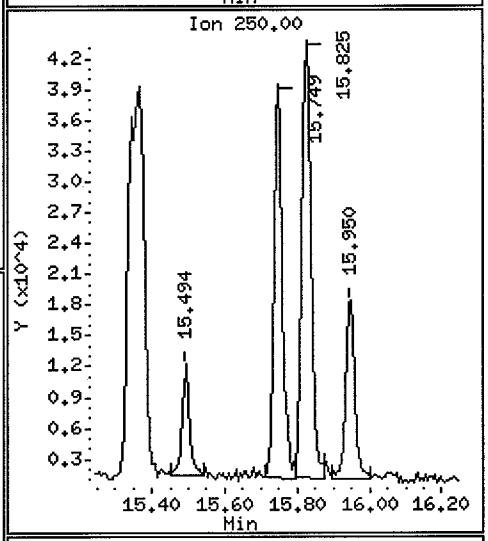


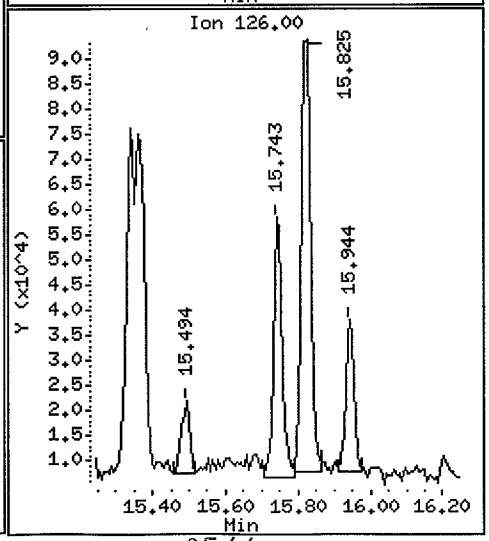












Data File: /chem3/nt1.i/20060912.b/ju43b.d

Date : 12-SEP-2006 13:17

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B

Volume Injected (uL): 1.0

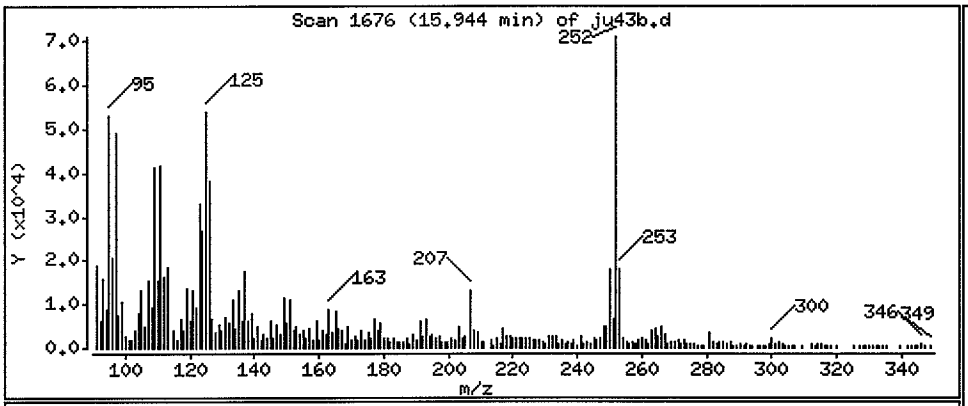
Operator: VTS

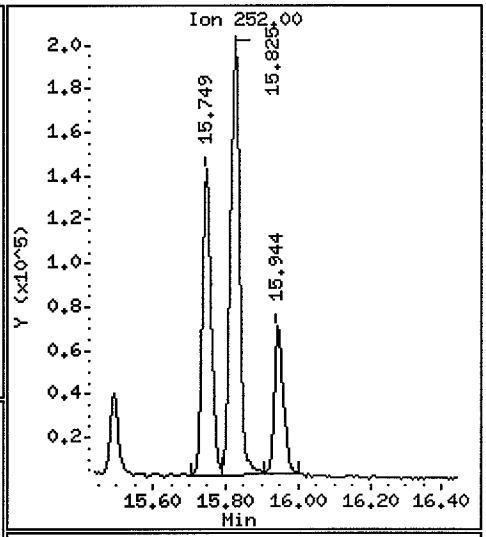
Column phase: ZB-5

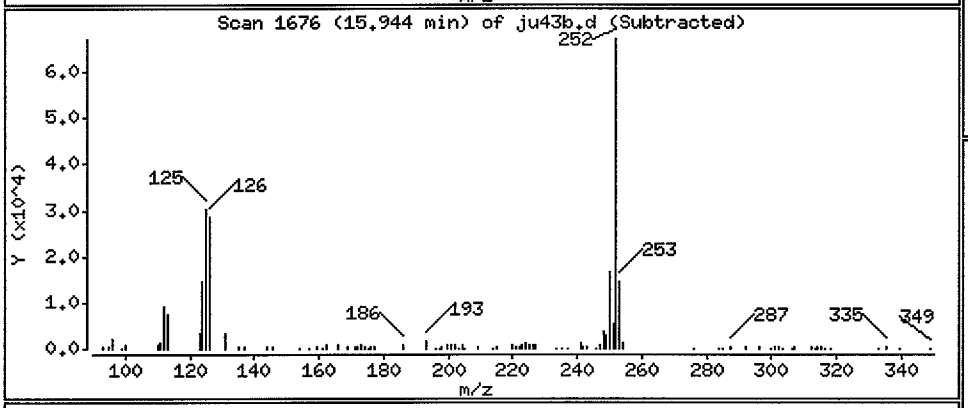
Column diameter: 0.25

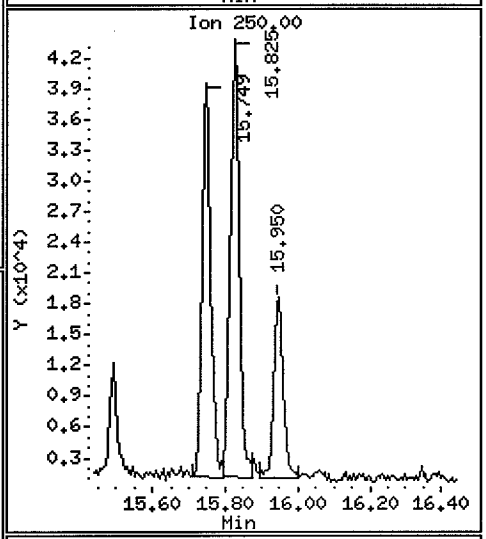
53 Perylene

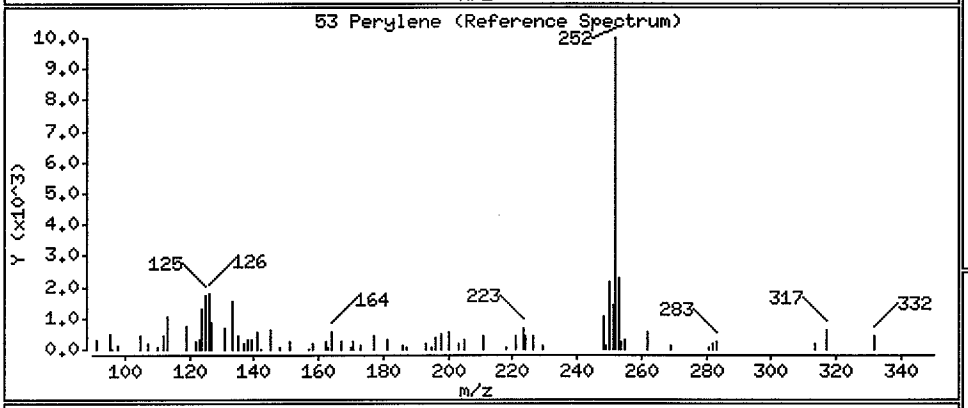
Concentration: 523.3 ug/kg

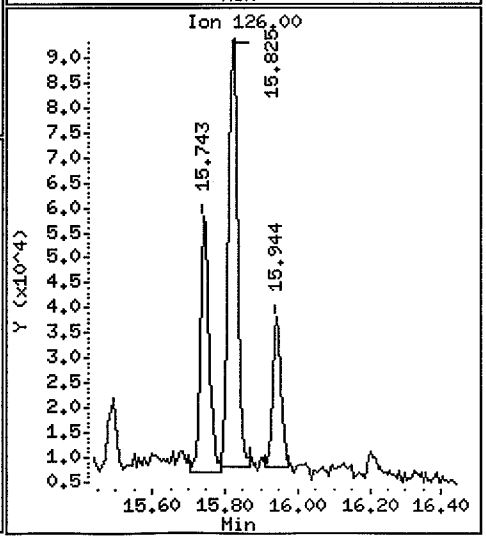


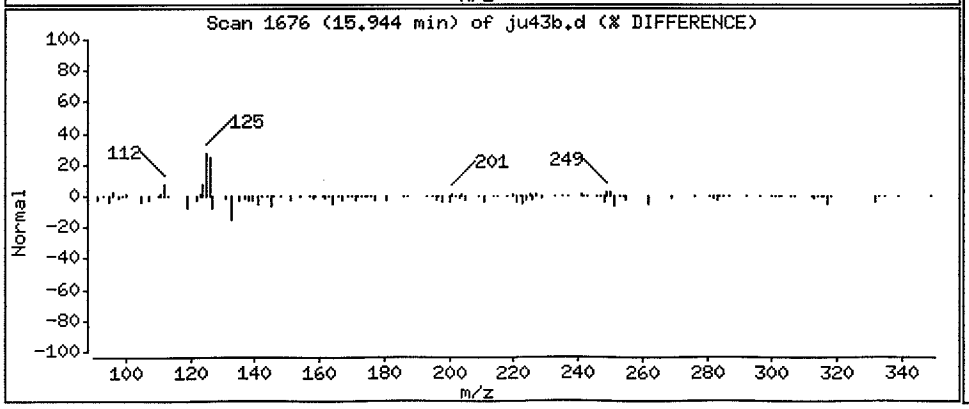












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-01-F**
Page 1 of 1 **DILUTION**

Lab Sample ID: JU43B
LIMS ID: 06-15846
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/13/06 15:08
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 1.23 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 42.2%
pH: 6.4

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	200	790	
91-57-6	2-Methylnaphthalene	200	810	
90-12-0	1-Methylnaphthalene	200	890	
208-96-8	Acenaphthylene	200	180	J
83-32-9	Acenaphthene	200	3,200	
86-73-7	Fluorene	200	2,700	
85-01-8	Phenanthrene	200	11,000	
120-12-7	Anthracene	200	1,800	
206-44-0	Fluoranthene	200	7,200	
129-00-0	Pyrene	200	6,400	
56-55-3	Benzo(a)anthracene	200	1,700	
218-01-9	Chrysene	200	2,200	
205-99-2	Benzo(b)fluoranthene	200	1,000	
207-08-9	Benzo(k)fluoranthene	200	1,100	
50-32-8	Benzo(a)pyrene	200	1,400	
193-39-5	Indeno(1,2,3-cd)pyrene	200	710	
53-70-3	Dibenz(a,h)anthracene	200	240	
191-24-2	Benzo(g,h,i)perylene	200	920	
198-55-0	Perylene	200	510	
92-52-4	Biphenyl	200	< 200	U
581-42-0	2,6-Dimethylnaphthalene	200	1,200	
832-69-9	1-Methylphenanthrene	200	980	
192-97-2	Benzo(e)pyrene	200	920	
2245-38-7	2,3,5-Trimethylnaphthalene	200	670	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	88.7%
d14-Dibenzo(a,h)anthracen	84.2%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060913.b/ju43bdl.d
Lab Smp Id: JU43BDL Client Smp ID: T4-B414-01-F
Inj Date : 13-SEP-2006 15:08
Operator : VTS Inst ID: nt1.i
Smp Info : JU43B,5
Misc Info : 06-15846
Comment : 1ul Injection
Method : /chem3/nt1.i/20060913.b/simpna.m
Meth Date : 14-Sep-2006 09:42 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	2.13000	Weight of sample extracted (g)
M	42.20000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.811	6.807	(1.000)	310227	2.00000		
	2 Naphthalene	128	6.835	6.831	(1.003)	57400	0.38512	782.0	
$	3 2-Methylnaphthalene-d10	152	7.568	7.563	(1.111)	40898	0.53165	1080	
	4 2-Methylnaphthalene	142	7.603	7.599	(1.116)	32022	0.40424	820.9	
	5 1-Methylnaphthalene	142	7.733	7.729	(1.135)	37426	0.43538	884.1	
	7 Acenaphthylene	152	8.691	8.686	(0.980)	11432	0.08751	177.7	
*	8 Acenaphthene-d10	164	8.868	8.864	(1.000)	159002	2.00000		
	9 Acenaphthene	153	8.909	8.905	(1.005)	122048	1.54694	3141	
	10 Dibenzofuran	168	9.098	9.094	(1.026)	62352	~~0.55~~608	1129	NR
	11 Fluorene	166	9.518	9.514	(1.073)	113636	1.32754	2696	
*	15 Phenanthrene-d10	188	10.676	10.672	(1.000)	208147	2.00000		
	16 Phenanthrene	178	10.706	10.702	(1.003)	633910	5.61829	11410	
	17 Anthracene	178	10.765	10.761	(1.008)	102273	0.89875	1825	
	19 Fluoranthene	202	12.201	12.197	(1.143)	340005	3.53036	7169	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.485	12.481	(0.893)	350445	3.15319	6403
	22 Benzo(a)anthracene	228	13.968	13.964	(0.999)	78228	0.82628	1678
*	23 Chrysene-d12	240	13.986	13.982	(1.000)	157913	2.00000	
	24 Chrysene	228	14.022	14.017	(1.003)	95712	1.07583	2185
	28 Benzo(b)fluoranthene	252	15.340	15.335	(0.965)	44515	0.48610	987.1
	29 Benzo(k)fluoranthene	252	15.363	15.365	(0.966)	50394	0.52690	1070
	30 Benzo(a)pyrene	252	15.824	15.814	(0.995)	56959	0.68960	1400
*	31 Perylene-d12	264	15.901	15.897	(1.000)	161716	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.816	17.806	(1.120)	30810	0.34746	705.6
$	32 Dibenz(a,h)anthrancene-d14	292	17.745	17.729	(1.116)	26749	0.50477	1025(M)
	34 Dibenz(a,h)anthracene	278	17.804	17.794	(1.120)	8347	0.11615	235.9(M)
	35 Benzo(g,h,i)perylene	276	18.383	18.367	(1.156)	35110	0.44804	909.8
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.336	8.332	(0.940)	44397	0.59608	1210
	50 2,3,5-Trimethylnaphthalene	170	9.353	9.354	(1.055)	19299	0.32801	666.1
	51 1-Methylphenanthrene	192	11.480	11.476	(0.821)	35640	0.47817	971.0
	52 Benzo(e)pyrene	252	15.741	15.737	(0.990)	41553	0.45158	917.0
	53 Perylene	252	15.936	15.938	(1.002)	21111	0.24587	499.3

QC Flag Legend

M - Compound response manually integrated.

9.14.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43bdl.d
Lab Smp Id: JU43BDL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15846

Calibration Date: 13-SEP-2006
Calibration Time: 10:18
Client Smp ID: T4-B414-01-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	337011	168506	674022	310227	-7.95
8 Acenaphthene-d10	171704	85852	343408	159002	-7.40
15 Phenanthrene-d10	223924	111962	447848	208147	-7.05
23 Chrysene-d12	172575	86288	345150	157913	-8.50
31 Perylene-d12	173129	86564	346258	161716	-6.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.06
8 Acenaphthene-d10	8.86	8.36	9.36	8.87	0.05
15 Phenanthrene-d10	10.67	10.17	11.17	10.68	0.04
23 Chrysene-d12	13.98	13.48	14.48	13.99	0.03
31 Perylene-d12	15.90	15.40	16.40	15.90	0.03

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

Analytical Resources, Inc.

RECOVERY REPORT

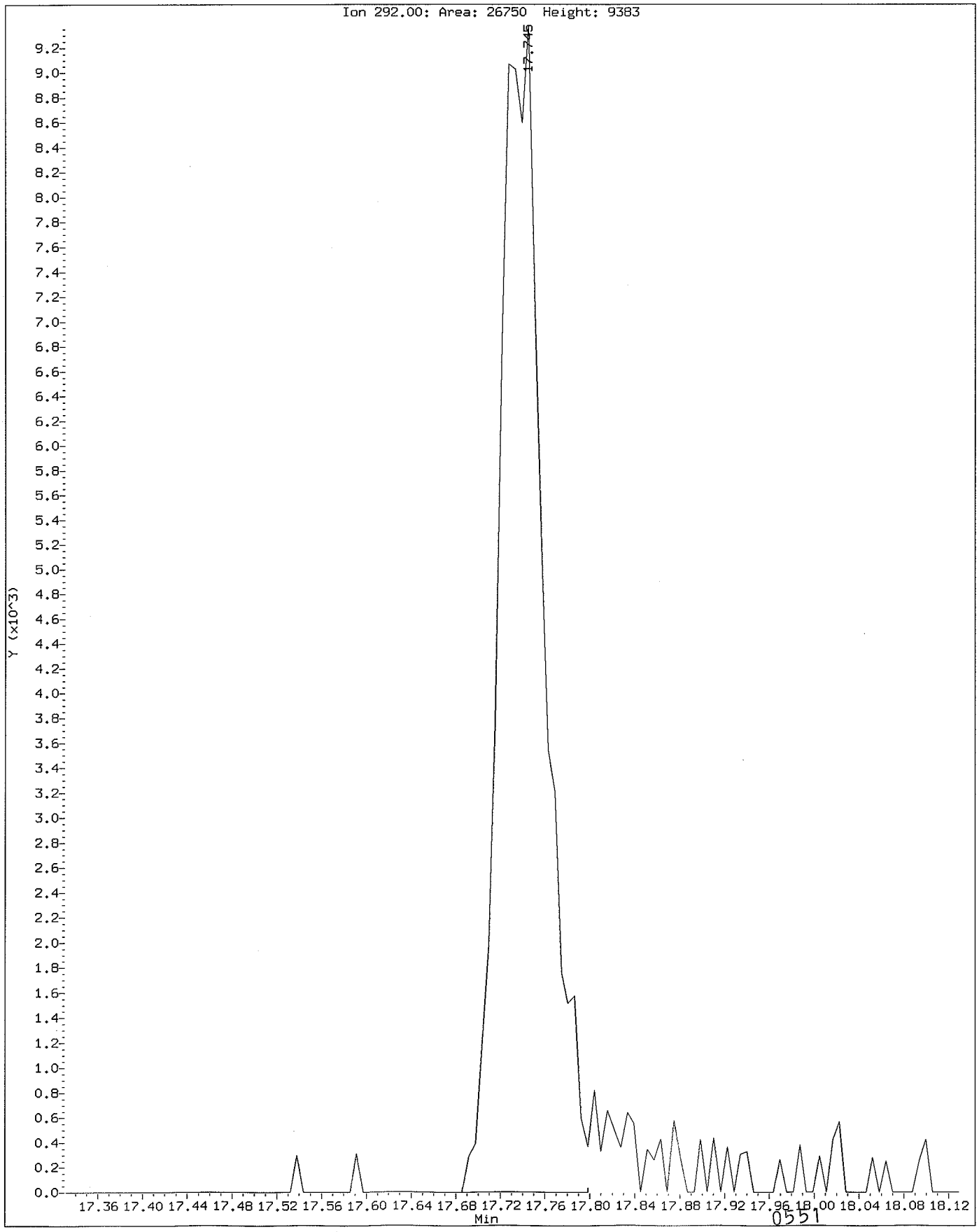
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43BDL
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15846

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-01-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	1218	1080	88.61	32-97
$ 32 Dibenz(a,h)anthran	1218	1025	84.13	21-105

Data File: /chem3/nt1.i/20060913.b/ju43bd1.d
Injection Date: 13-SEP-2006 15:08
Instrument: nt1.i
Client Sample ID: T4-B414-01-F

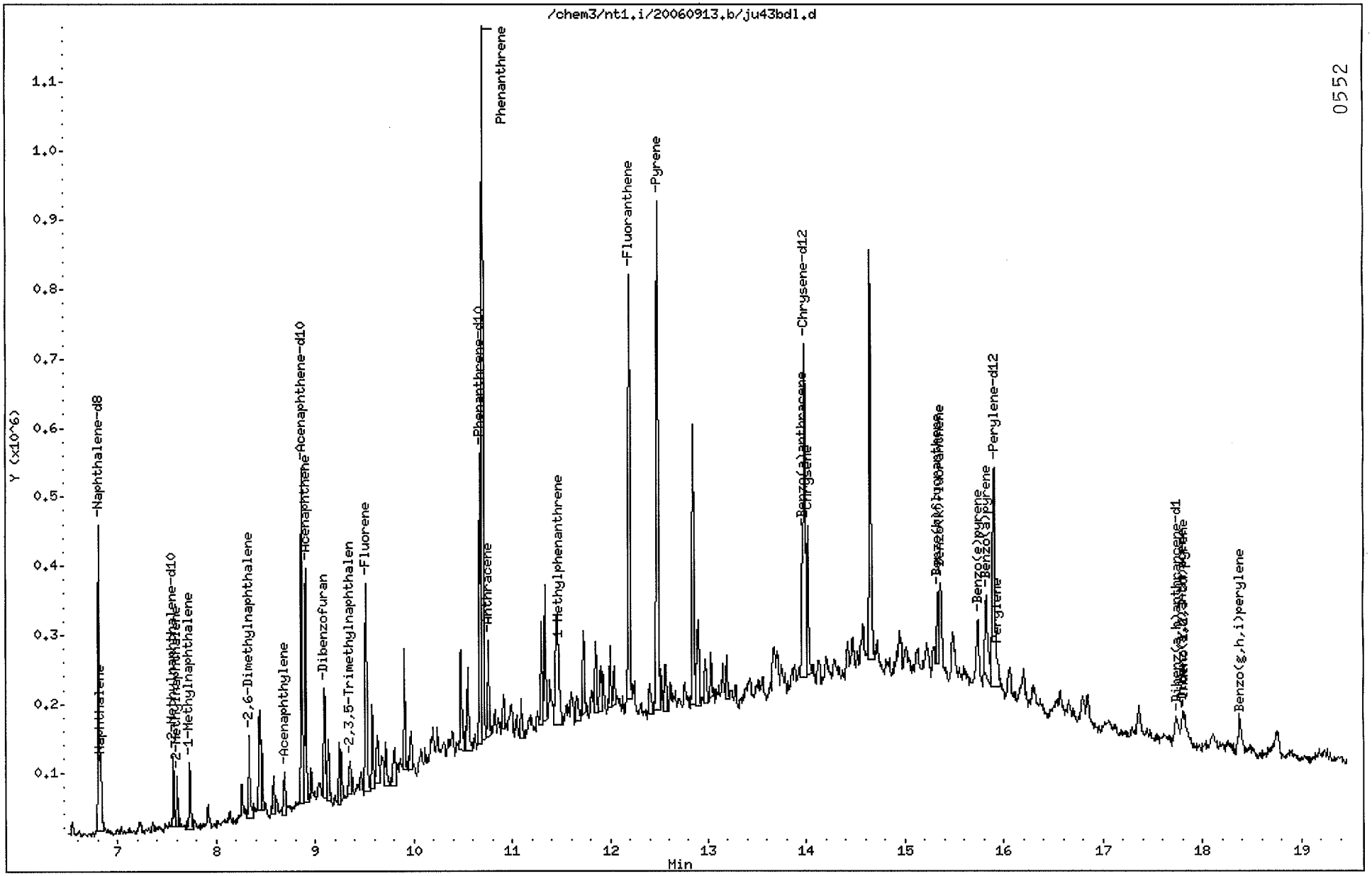
Compound: Dibenz(a,h)anthrancene-d14
CAS Number:



0551

Data File: /chem3/nt1.i/20060913.b/ju43bdl.d
Date : 13-SEP-2006 15:08
Client ID: T4-B414-01-F
Sample Info: JU43B,5
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

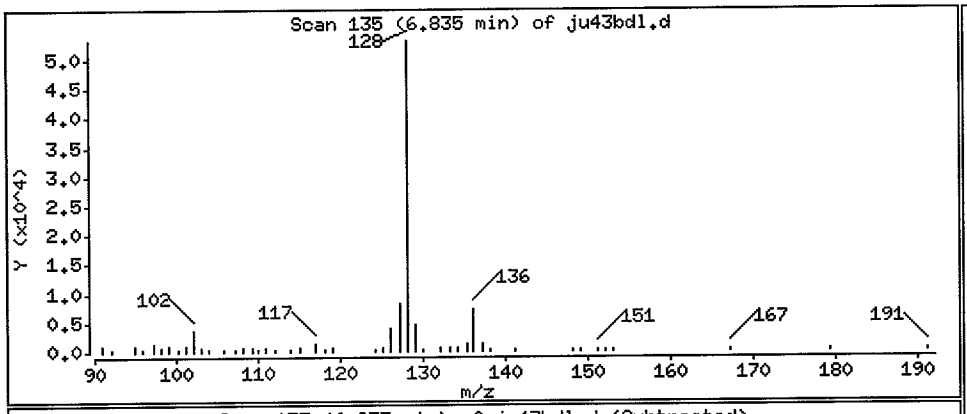
Operator: VTS

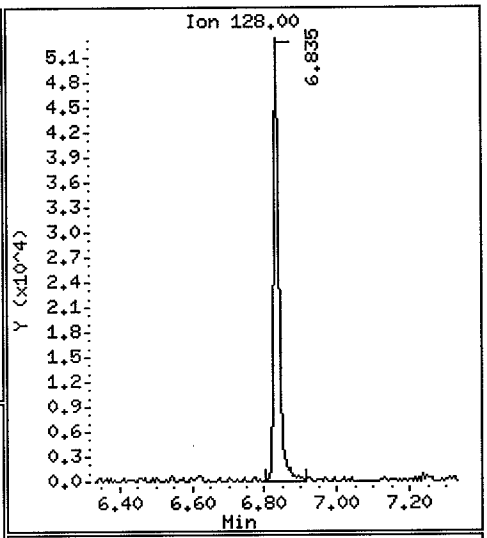
Column phase: ZB-5

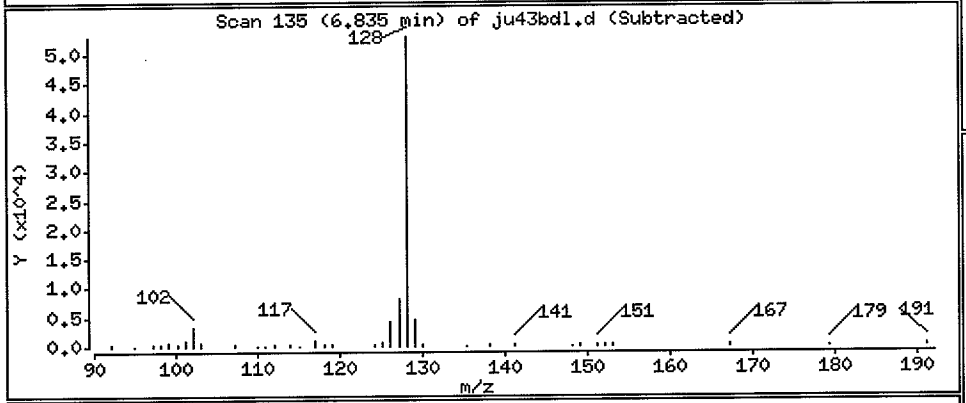
Column diameter: 0.25

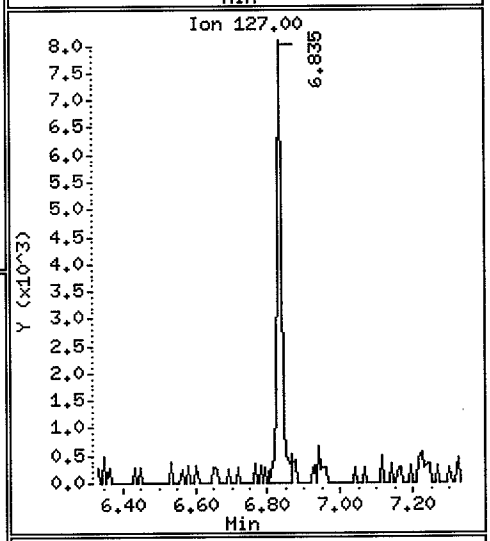
2 Naphthalene

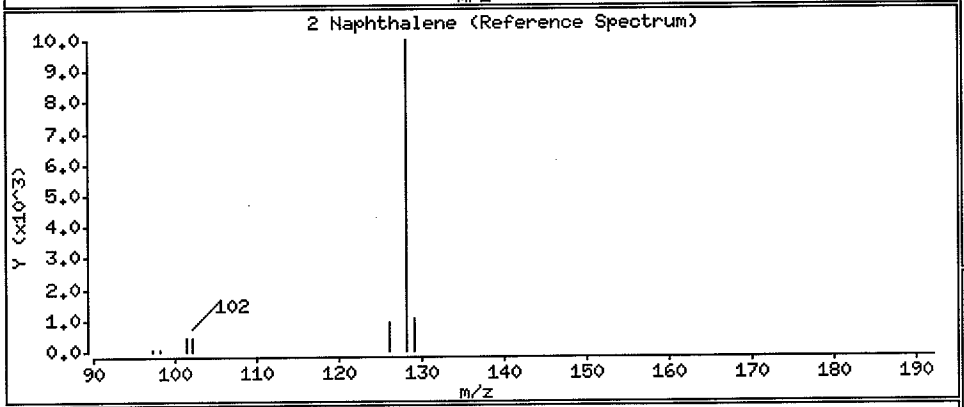
Concentration: 782.0 ug/kg

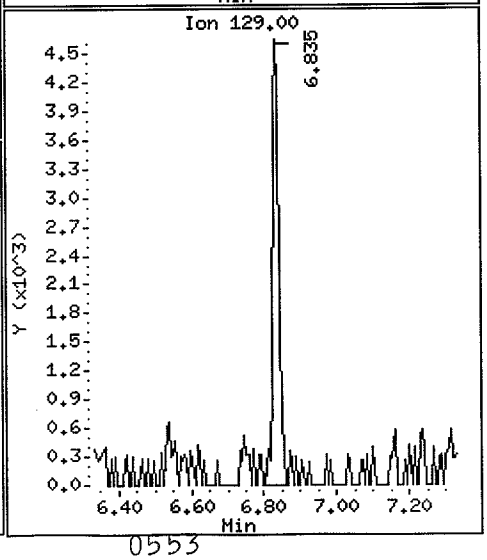


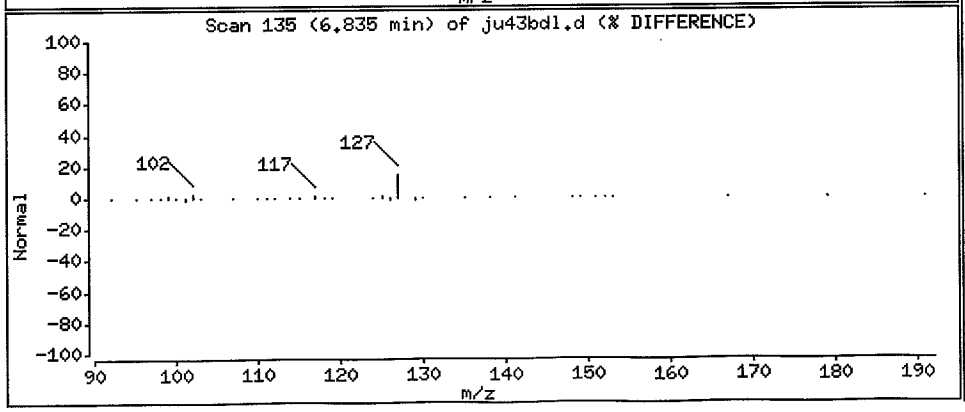












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

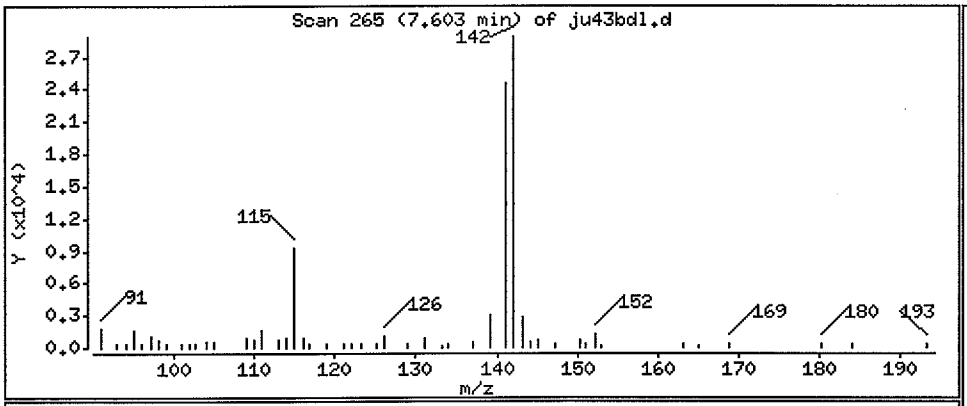
Operator: VTS

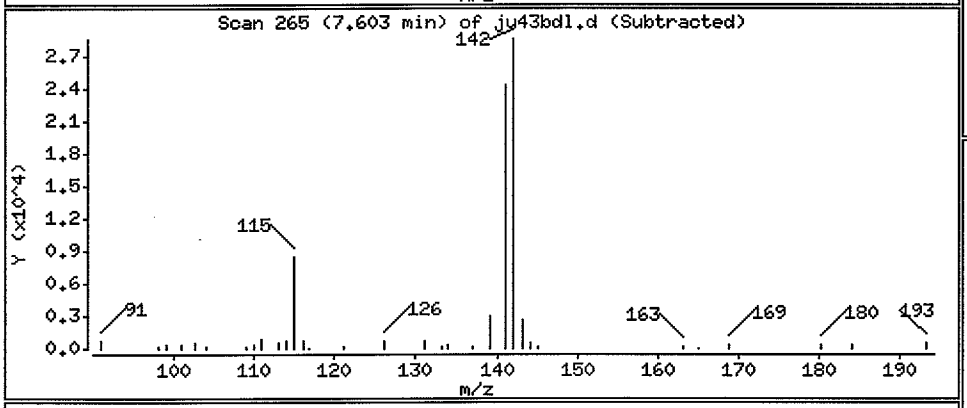
Column phase: ZB-5

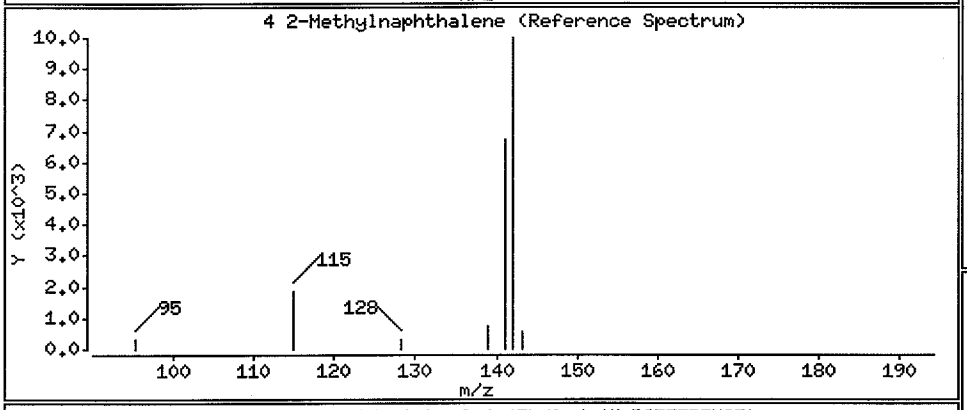
Column diameter: 0.25

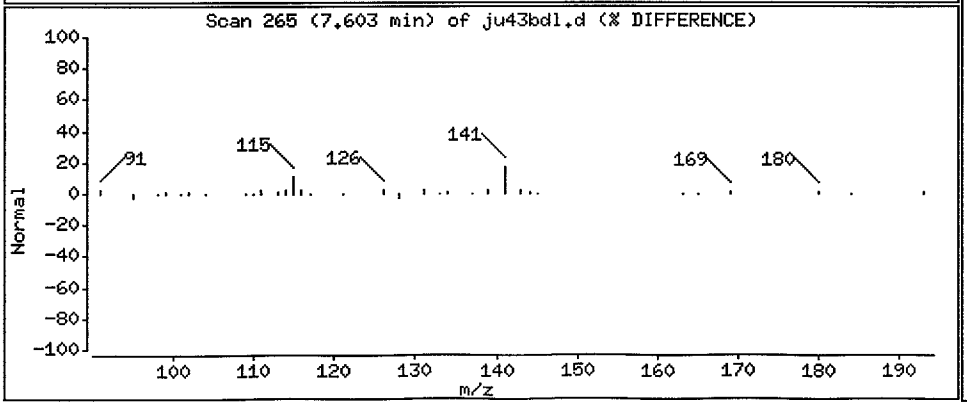
4 2-Methylnaphthalene

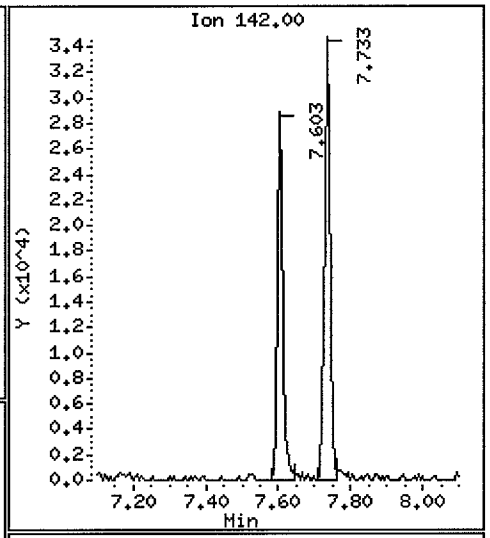
Concentration: 820.9 ug/kg

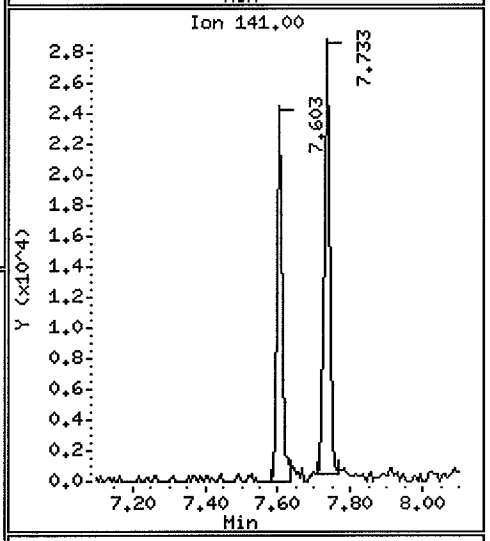


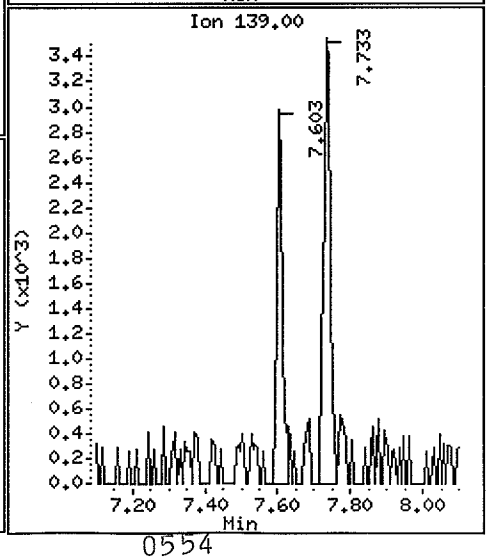












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

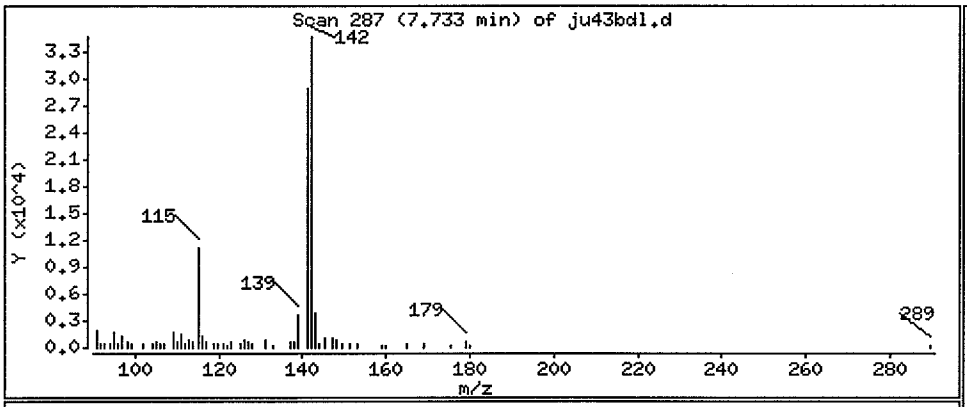
Operator: VTS

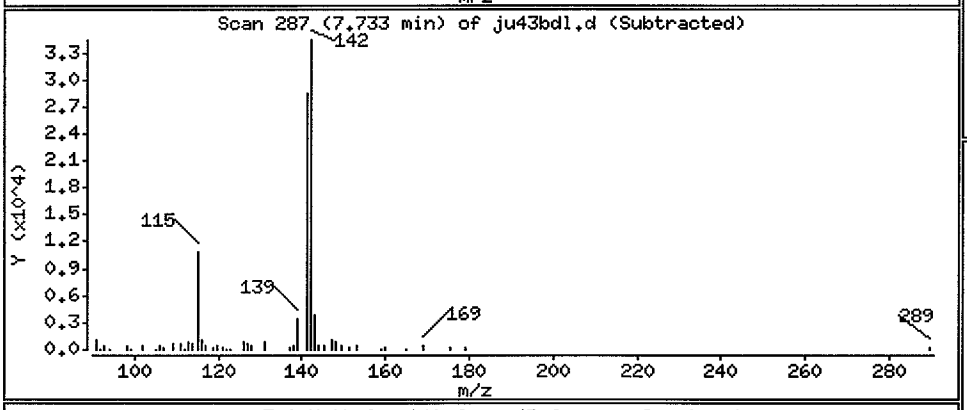
Column phase: ZB-5

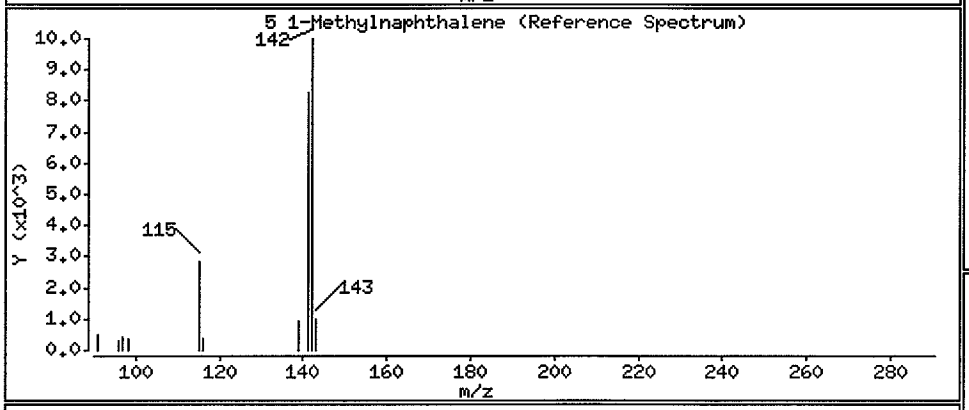
Column diameter: 0.25

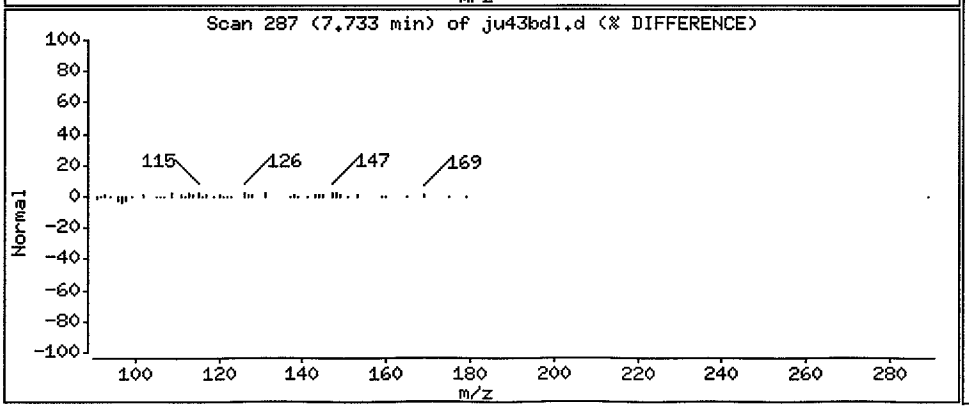
5 1-Methylnaphthalene

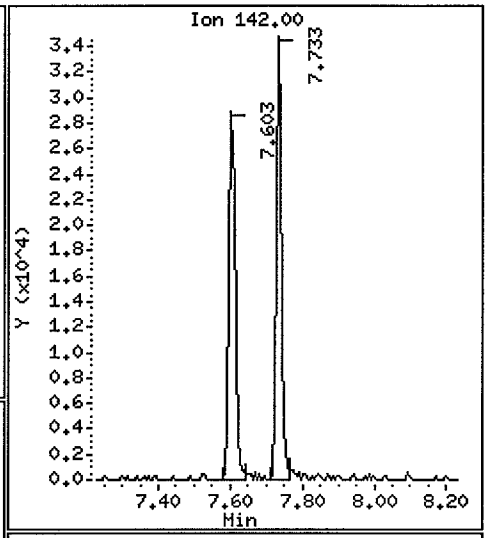
Concentration: 884.1 ug/kg

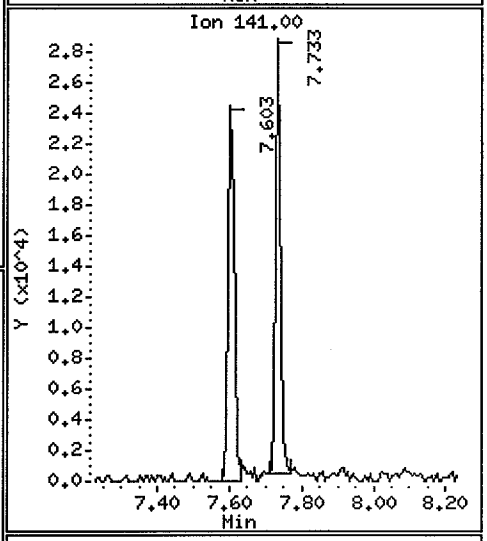


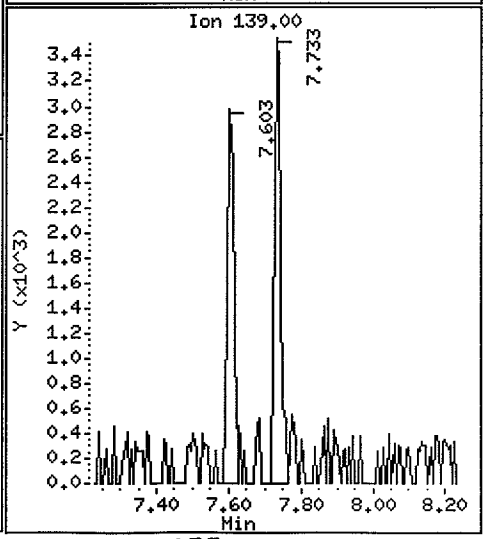












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

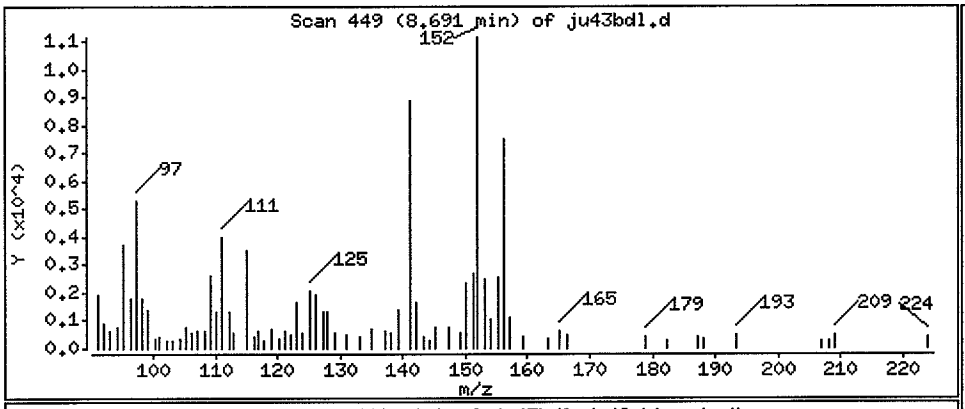
Operator: VTS

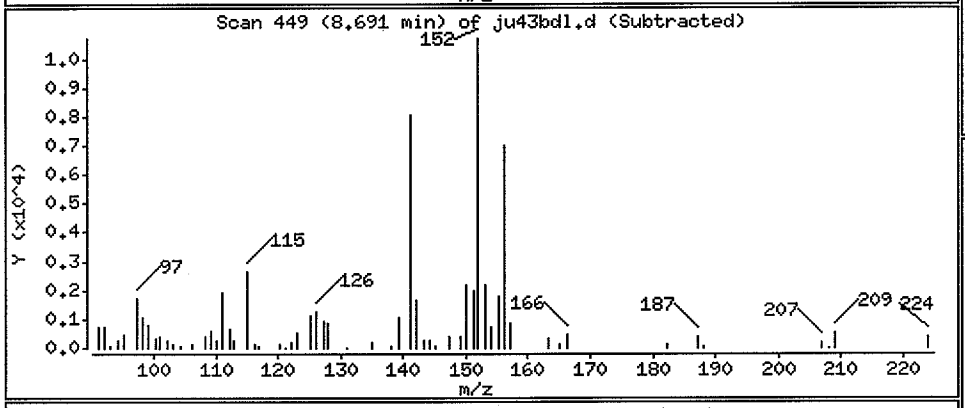
Column phase: ZB-5

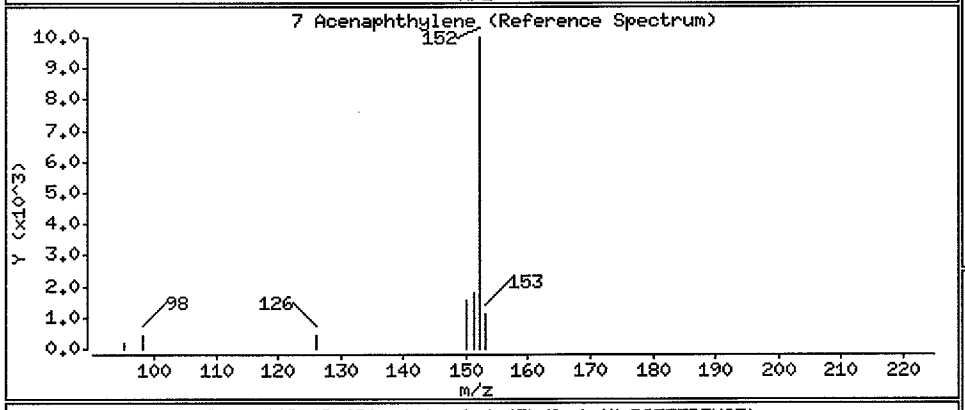
Column diameter: 0.25

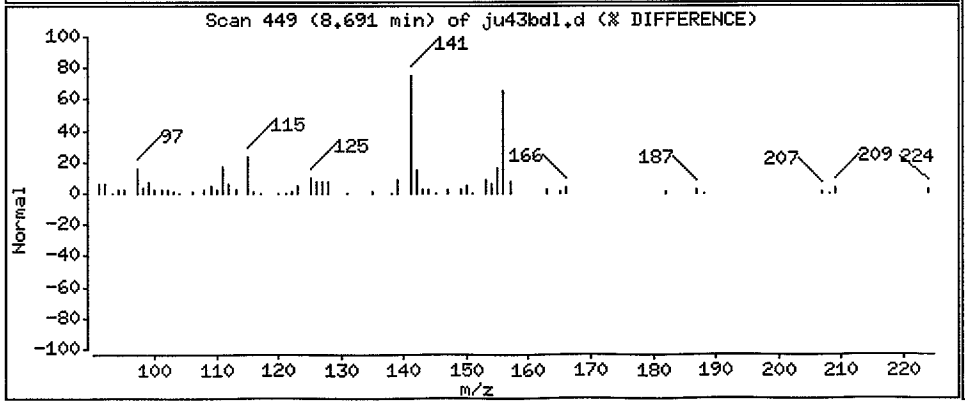
7 Acenaphthylene

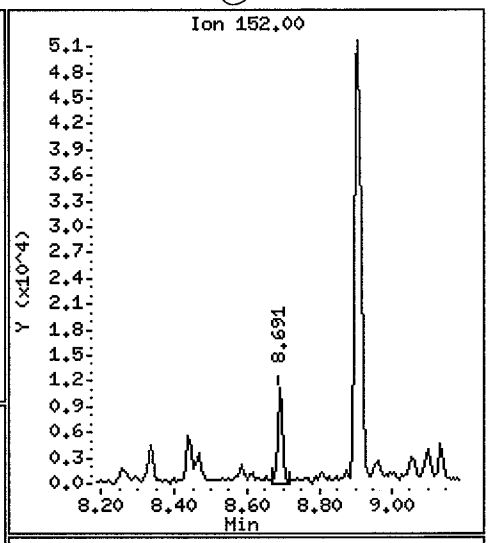
Concentration: 177.7 ug/kg

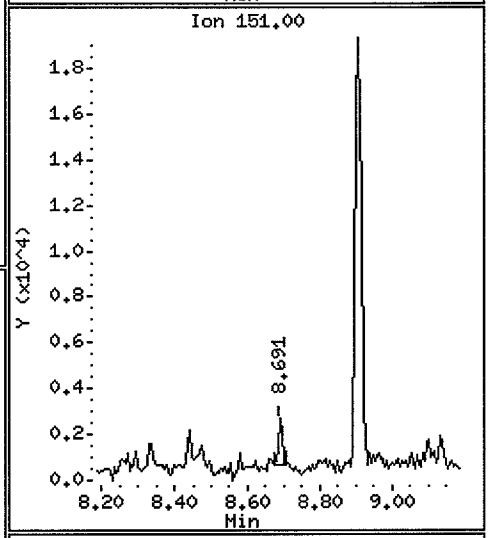


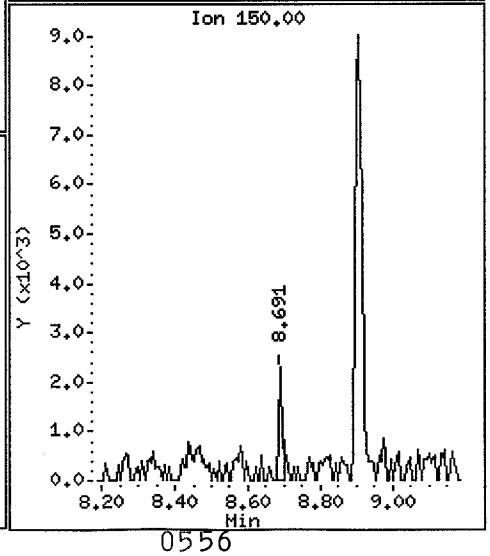












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

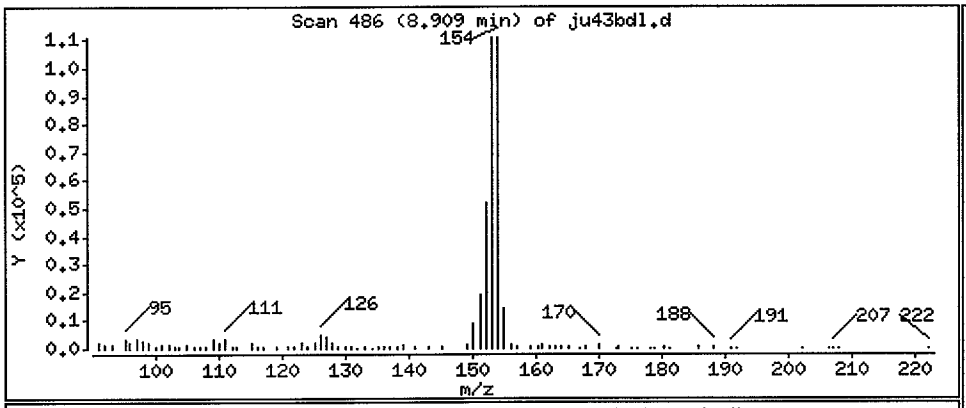
Operator: VTS

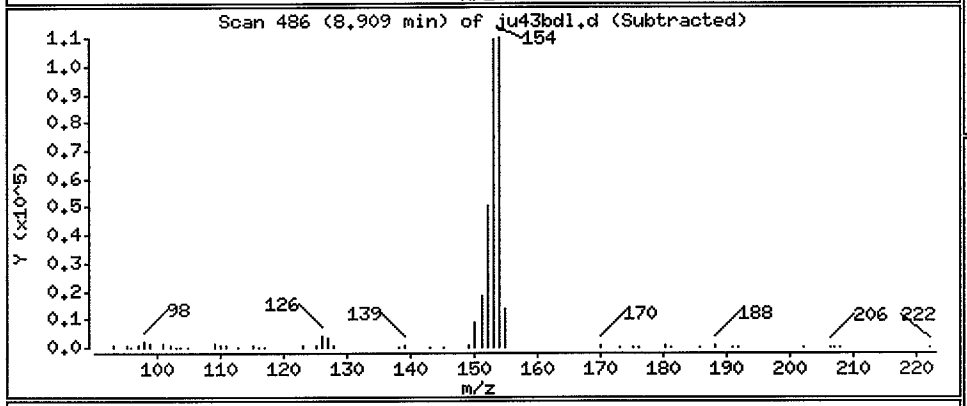
Column phase: ZB-5

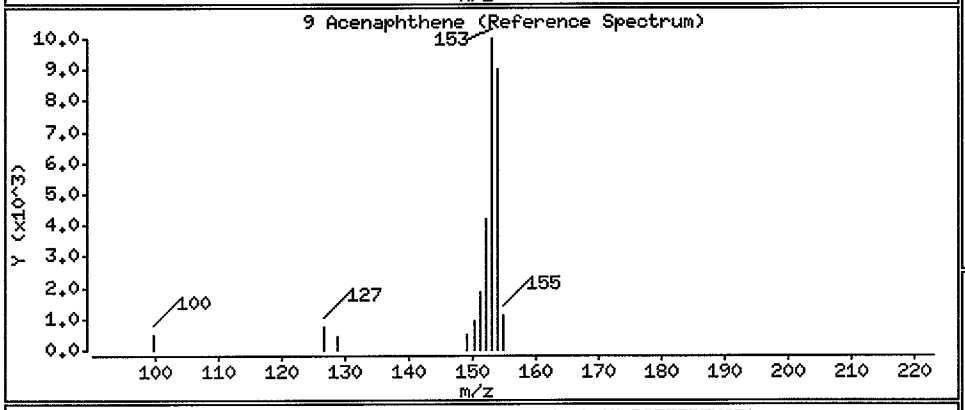
Column diameter: 0.25

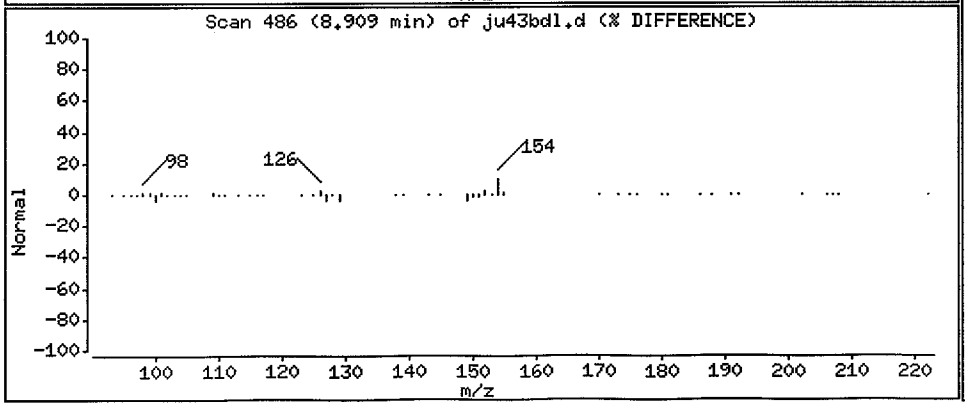
9 Acenaphthene

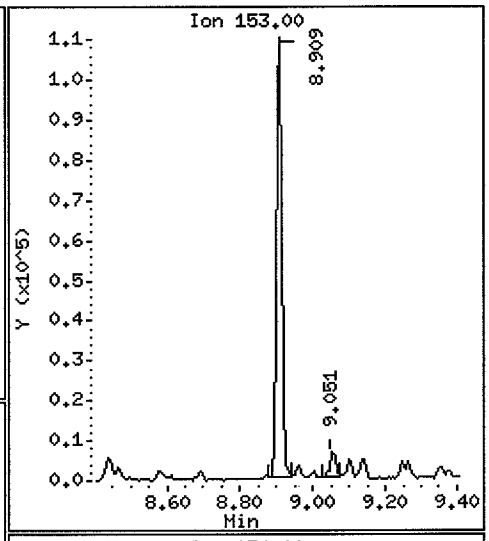
Concentration: 3141 ug/kg

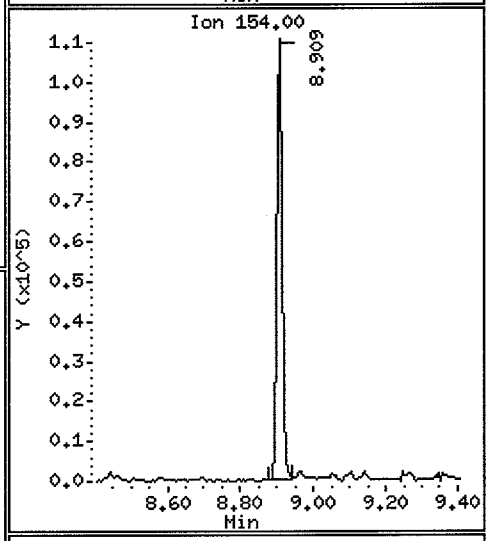


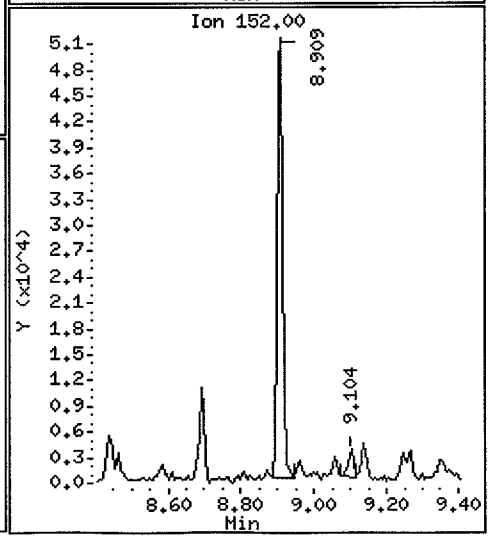












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

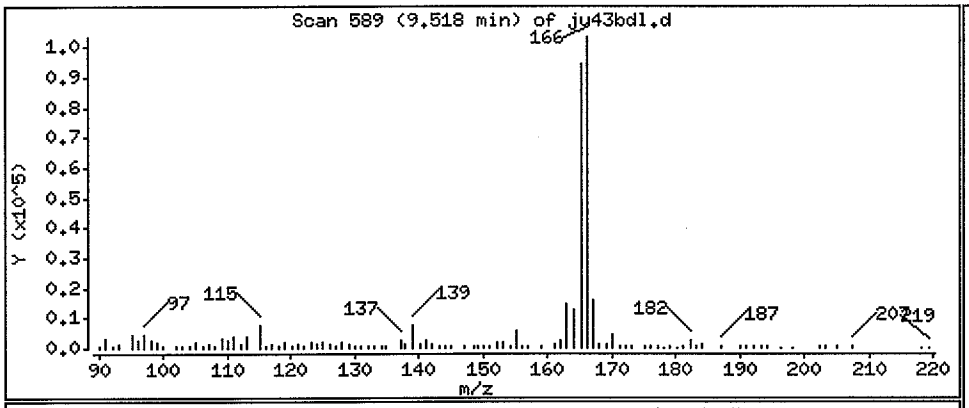
Operator: VTS

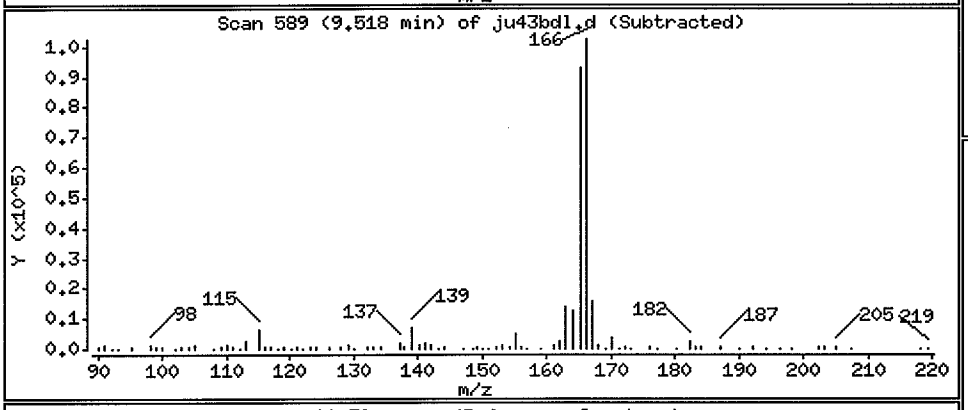
Column phase: ZB-5

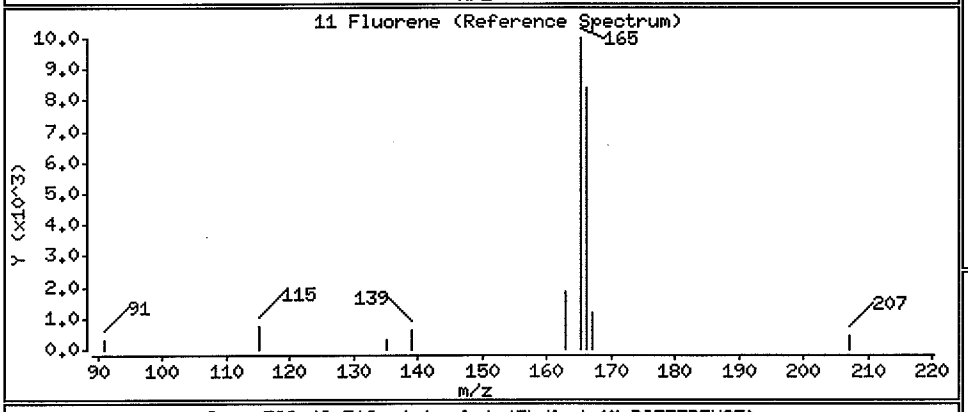
Column diameter: 0.25

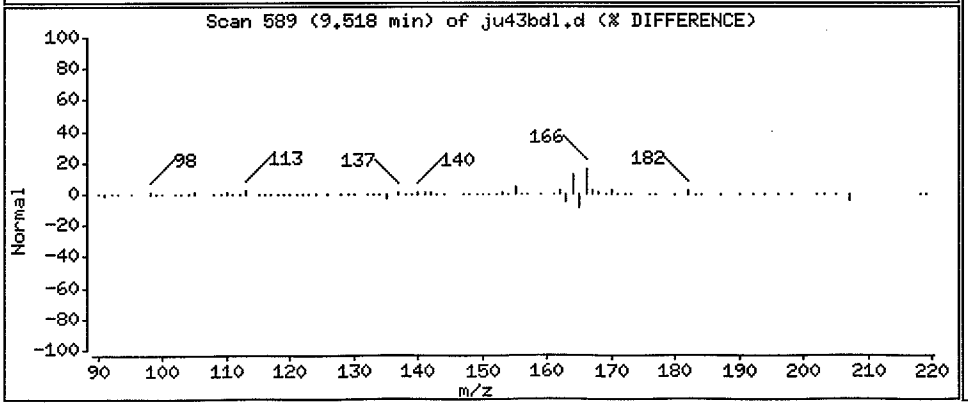
11 Fluorene

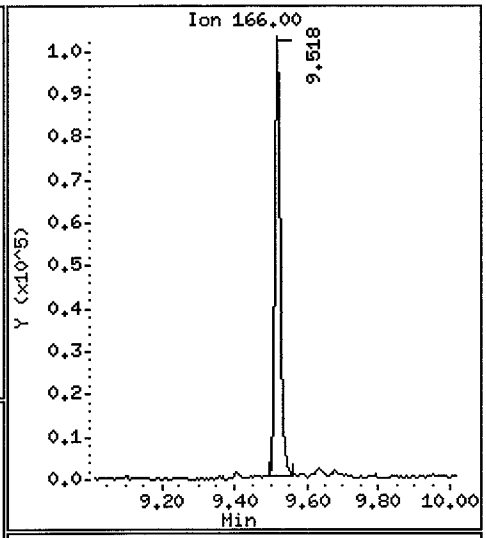
Concentration: 2696 ug/kg

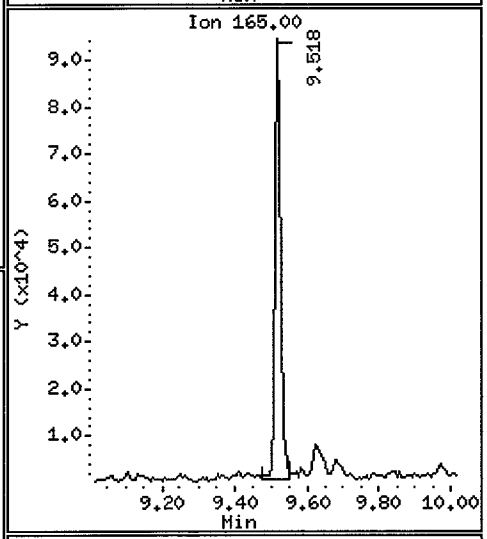


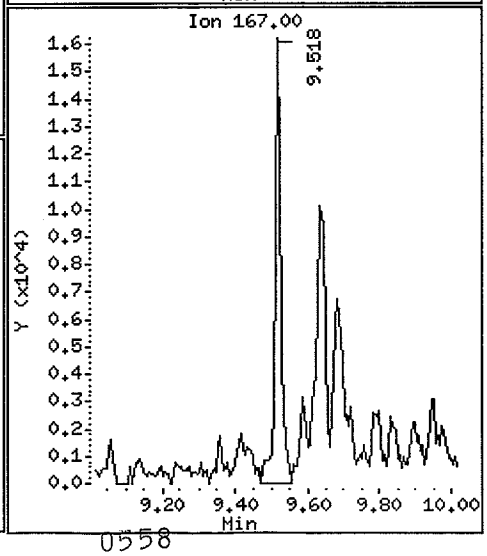












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

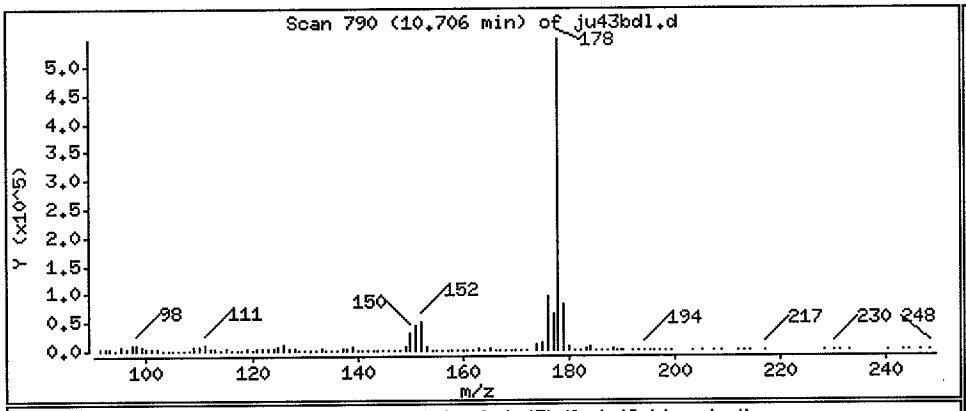
Operator: VTS

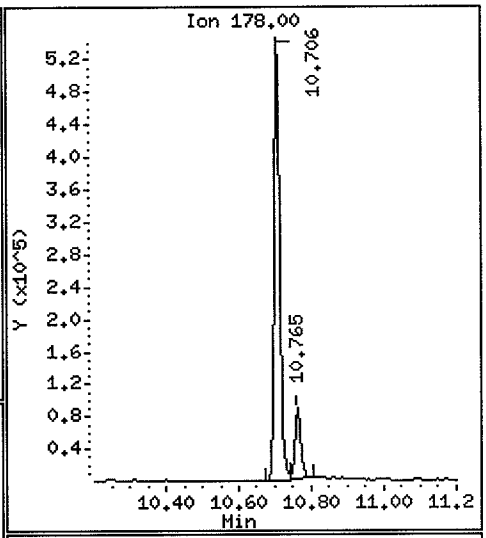
Column phase: ZB-5

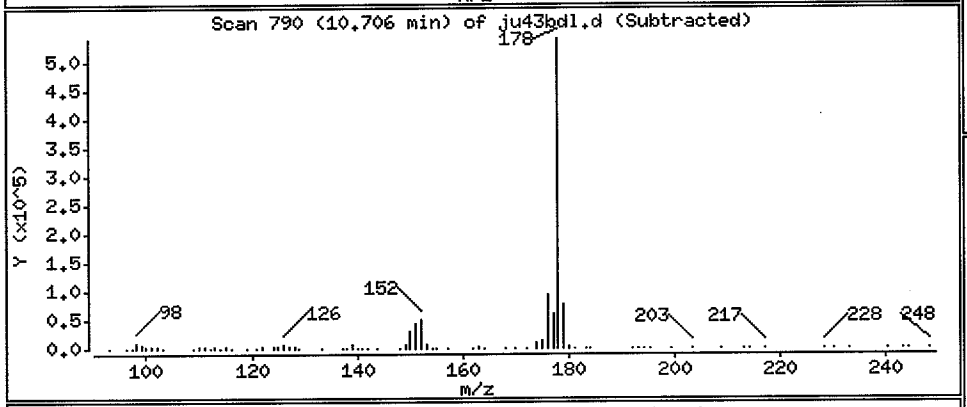
Column diameter: 0.25

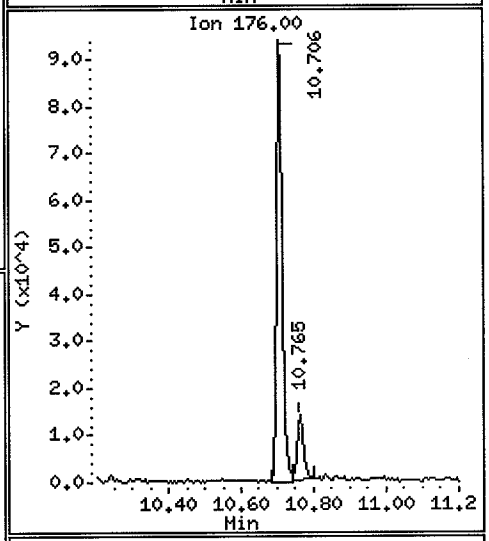
16 Phenanthrene

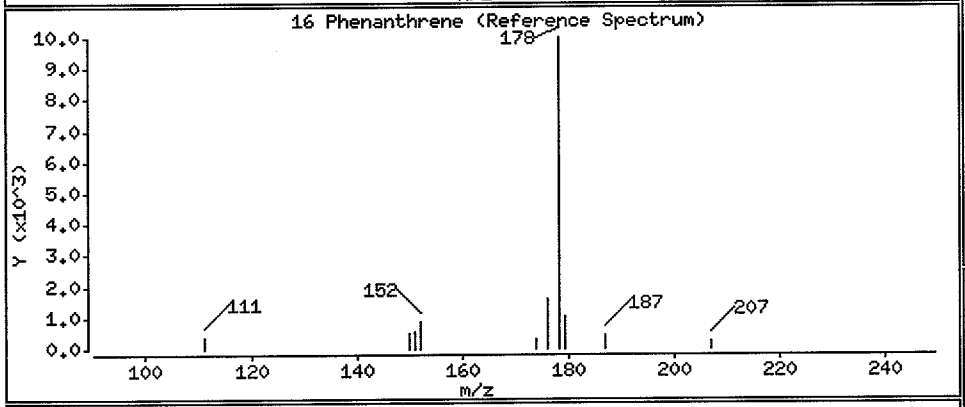
Concentration: 11410 ug/kg

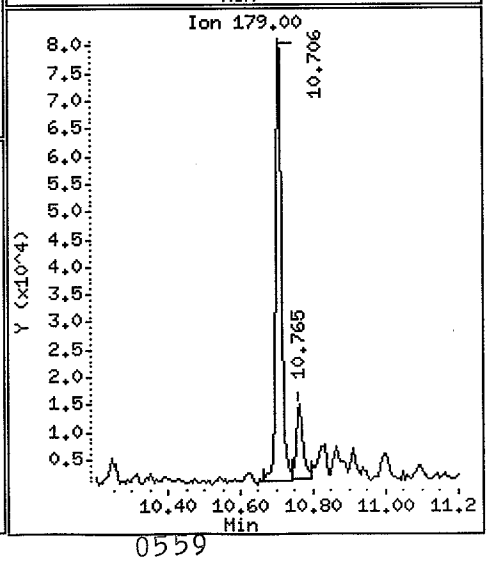


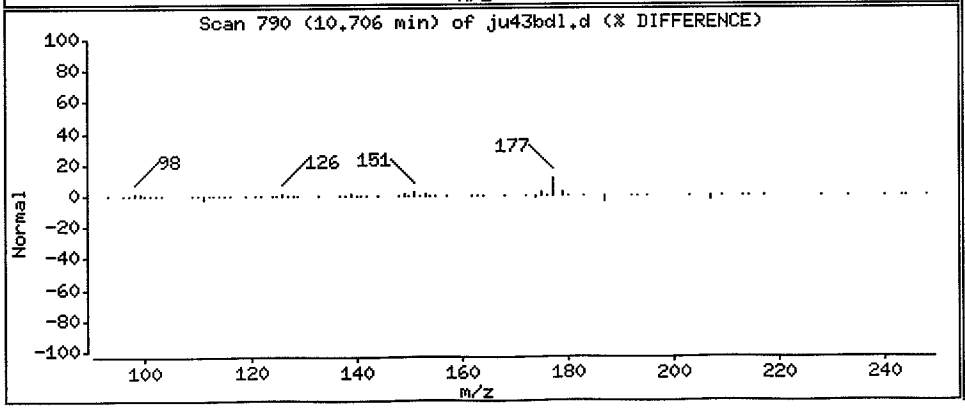












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

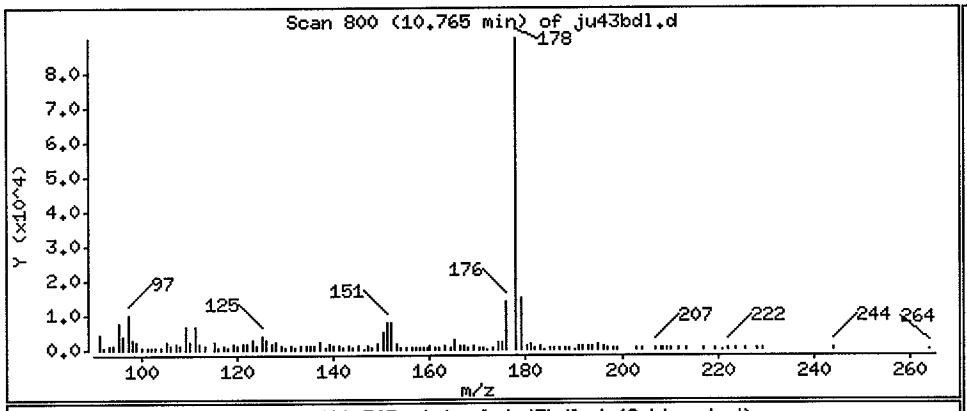
Operator: VTS

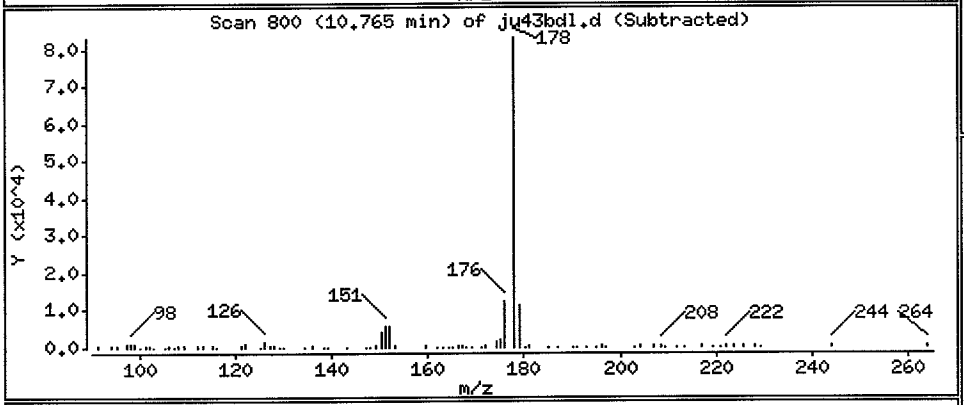
Column phase: ZB-5

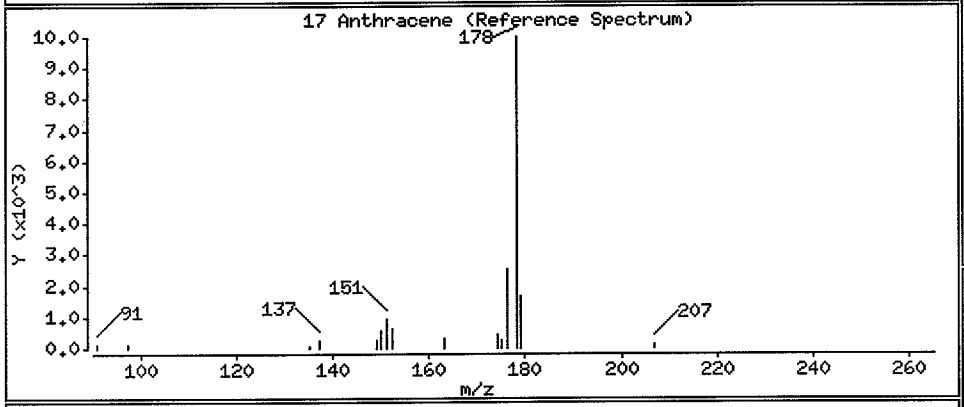
Column diameter: 0.25

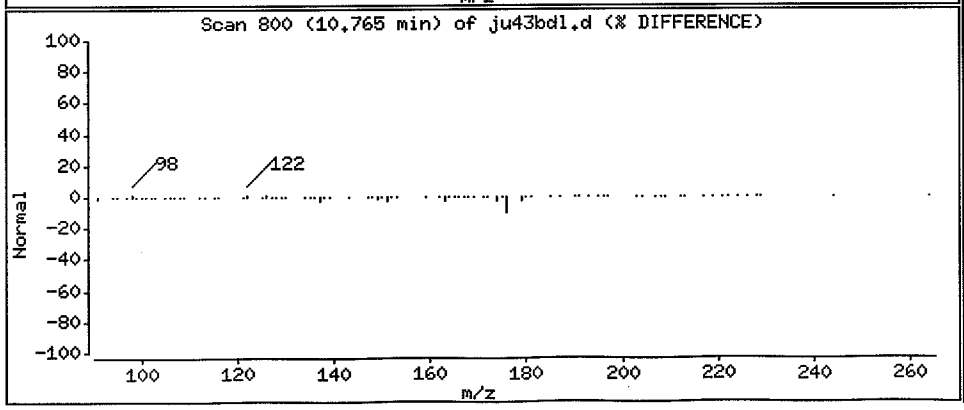
17 Anthracene

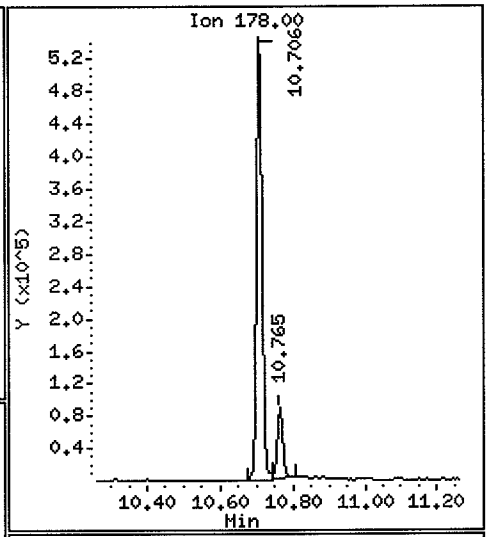
Concentration: 1825 ug/kg

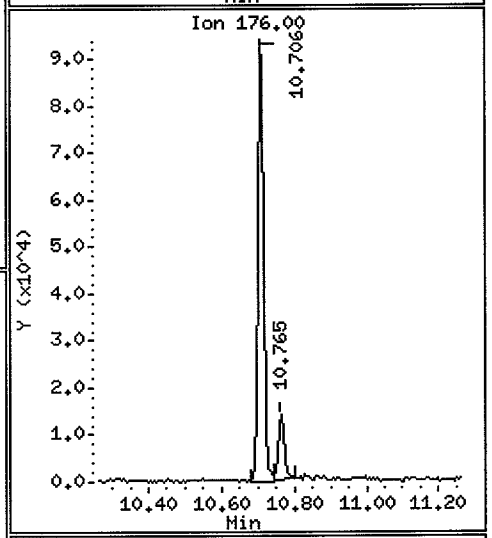


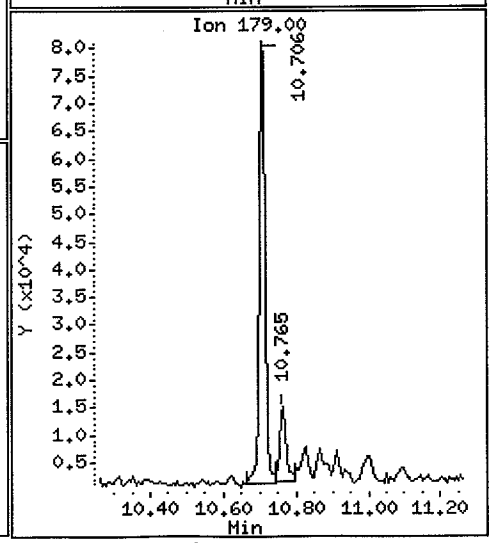












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

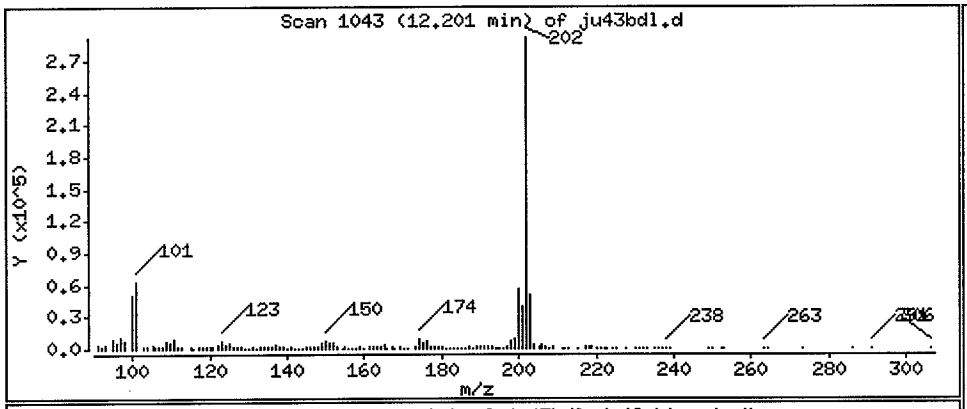
Operator: VTS

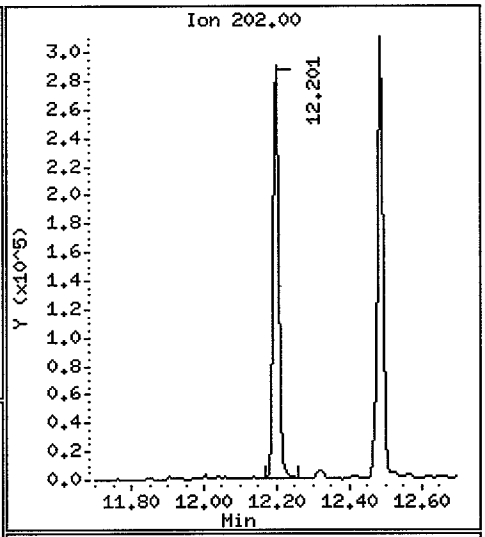
Column phase: ZB-5

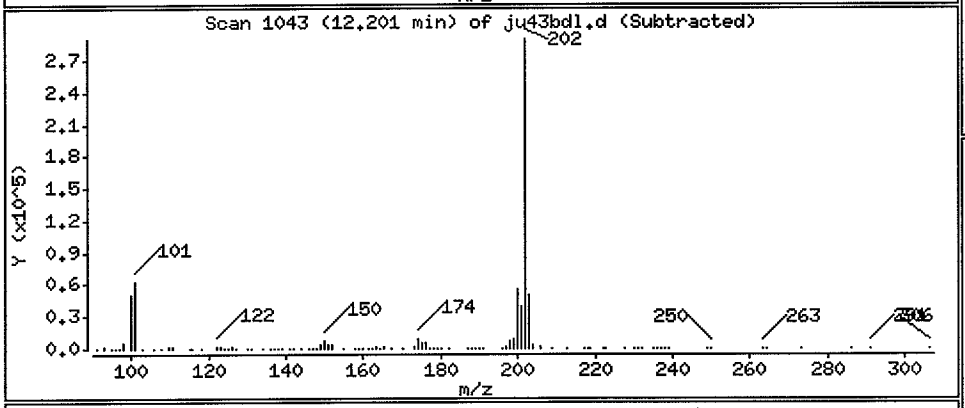
Column diameter: 0.25

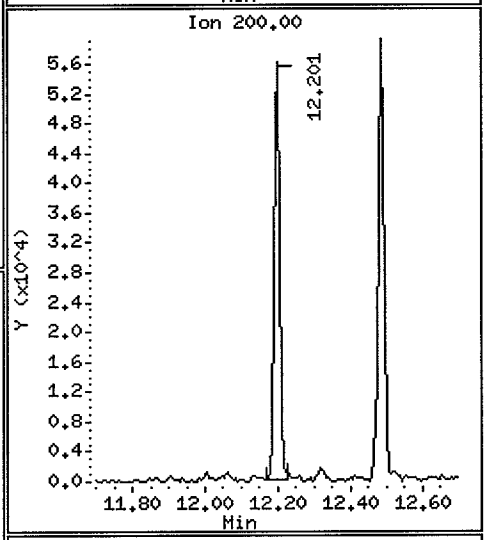
19 Fluoranthene

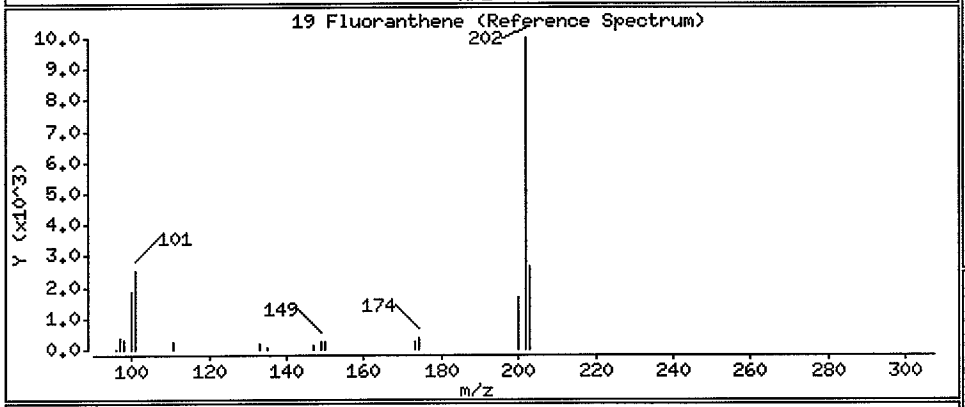
Concentration: 7169 ug/kg

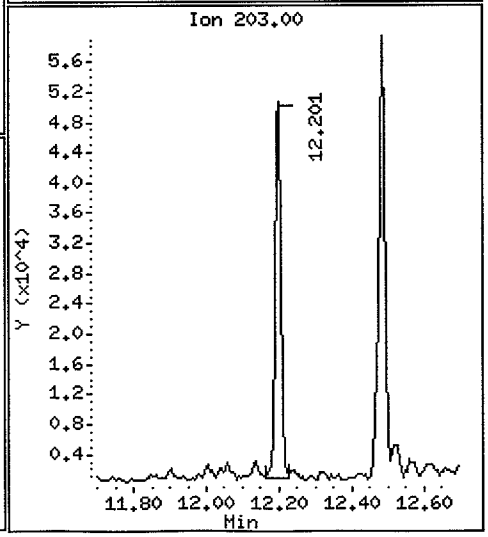


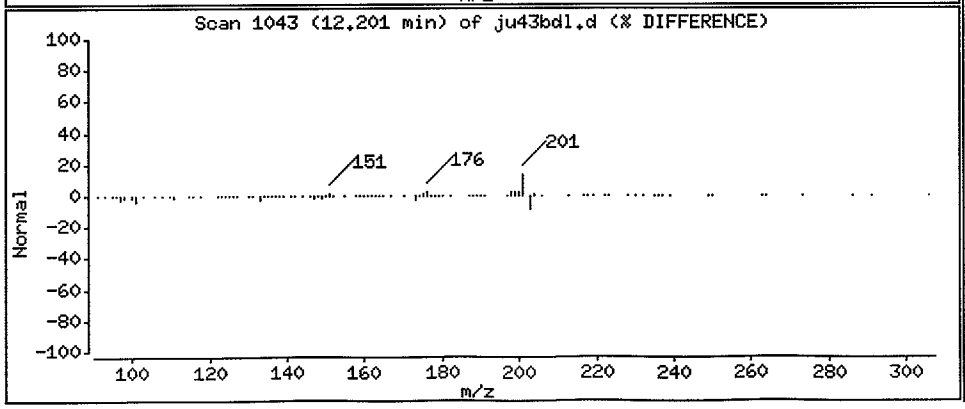












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

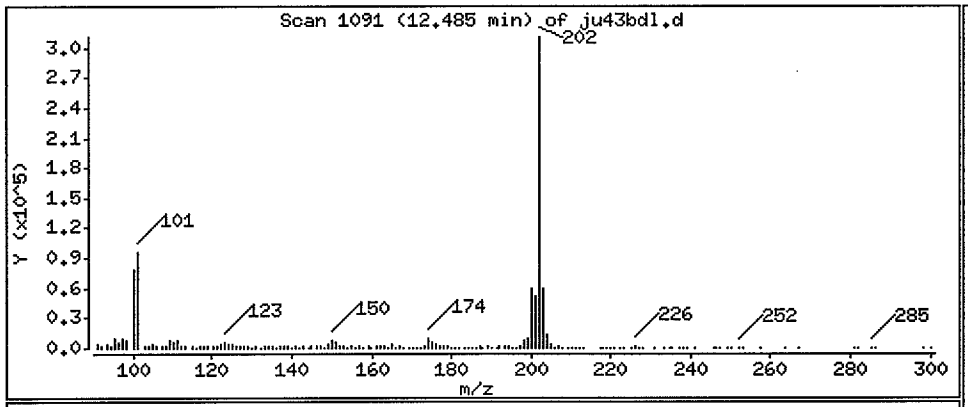
Operator: VTS

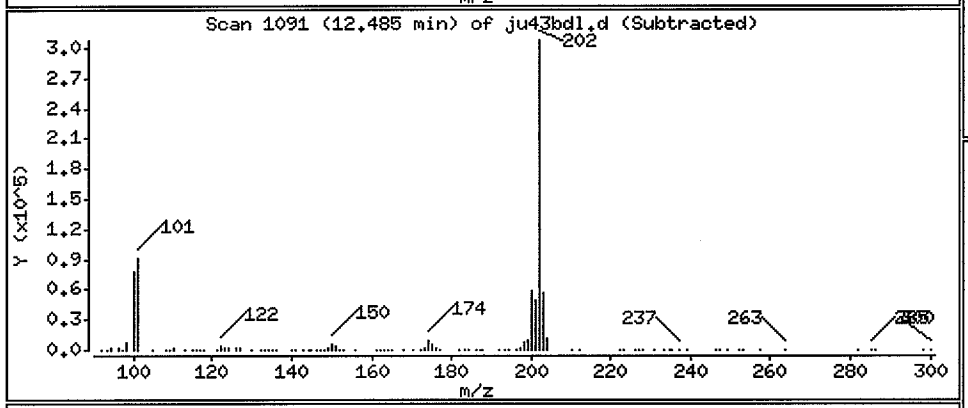
Column phase: ZB-5

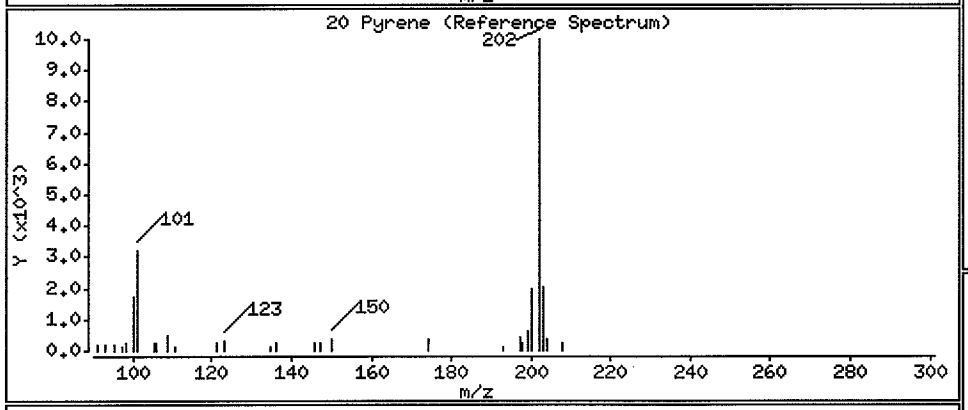
Column diameter: 0.25

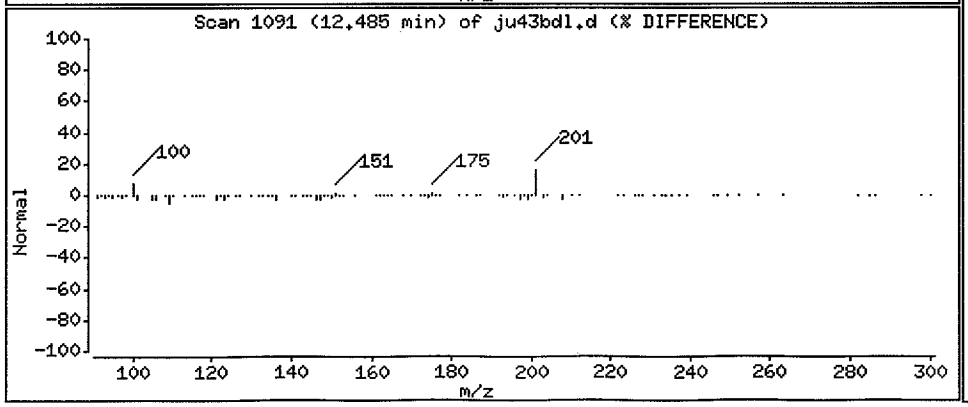
20 Pyrene

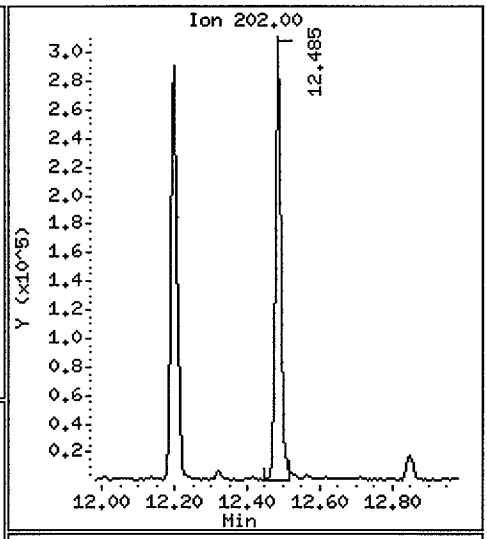
Concentration: 6403 ug/kg

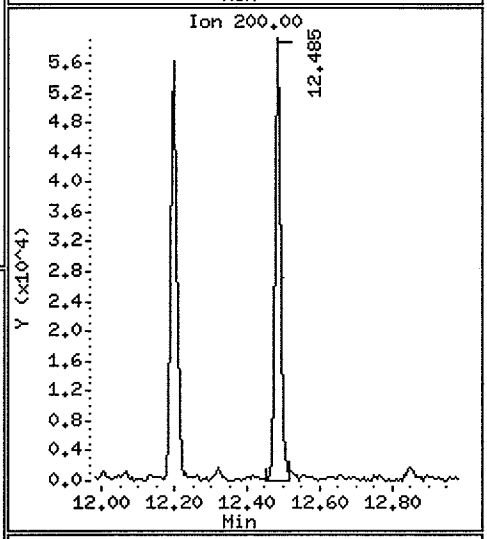


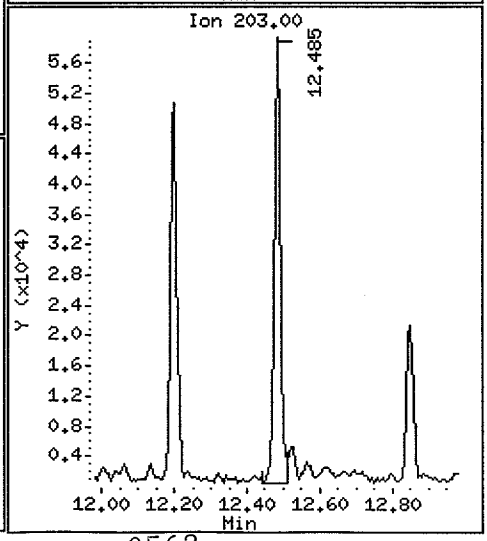












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

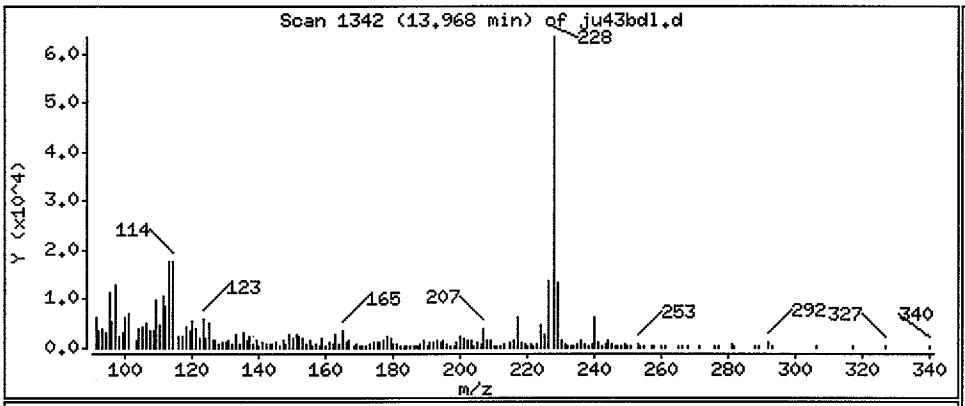
Operator: VTS

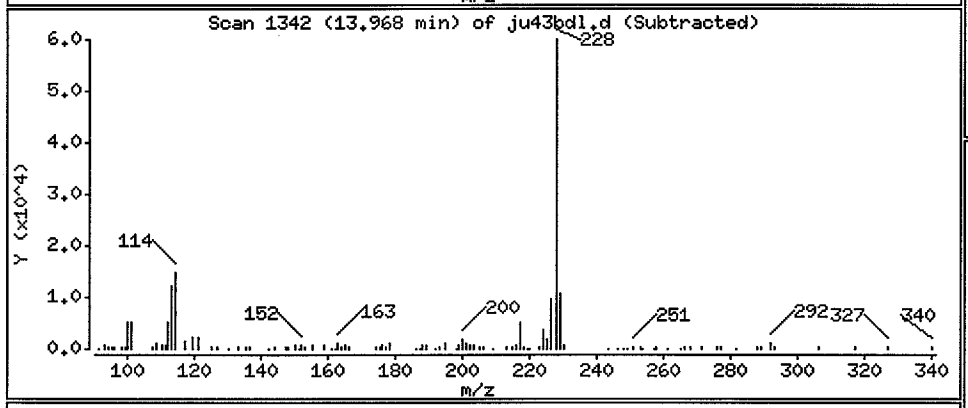
Column phase: ZB-5

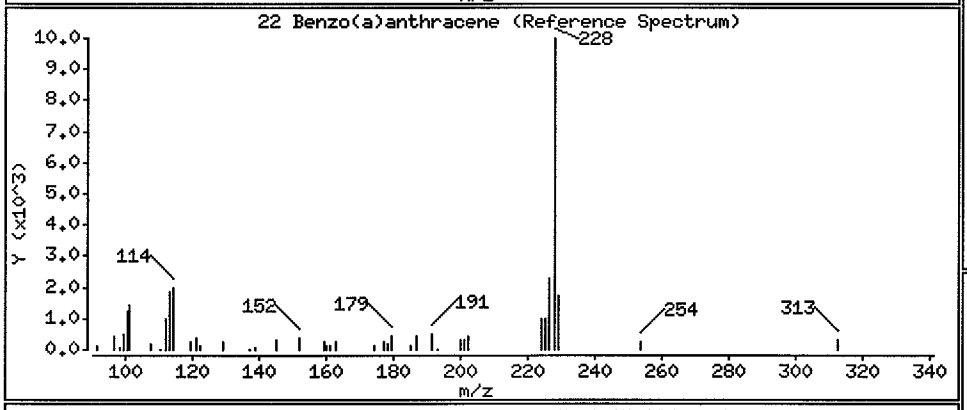
Column diameter: 0.25

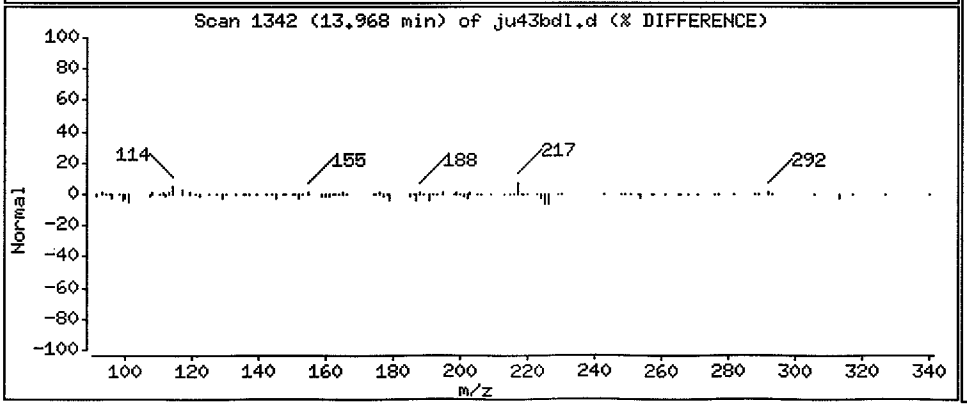
22 Benzo(a)anthracene

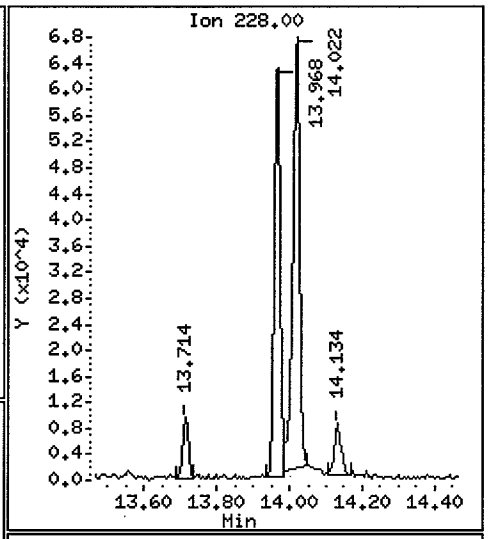
Concentration: 1678 ug/kg

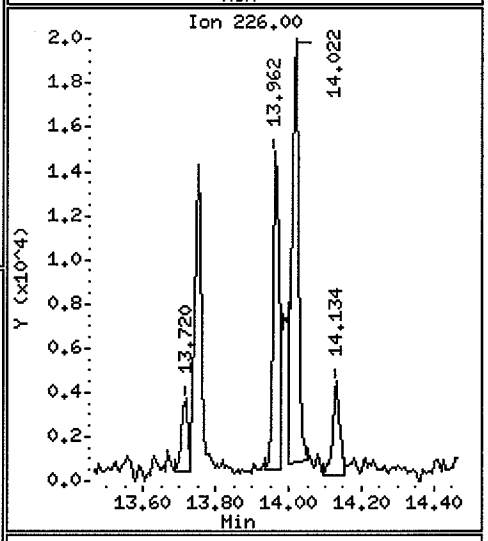


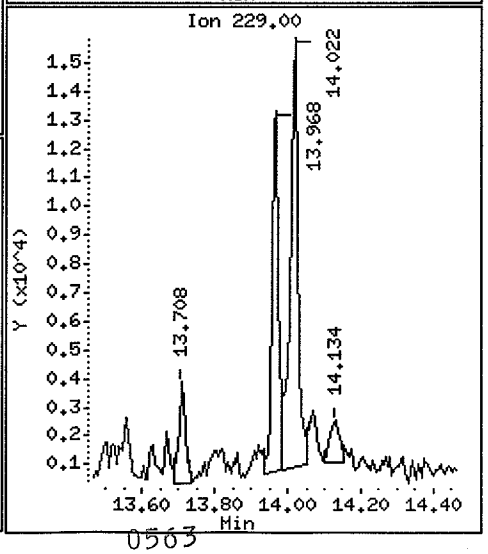












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

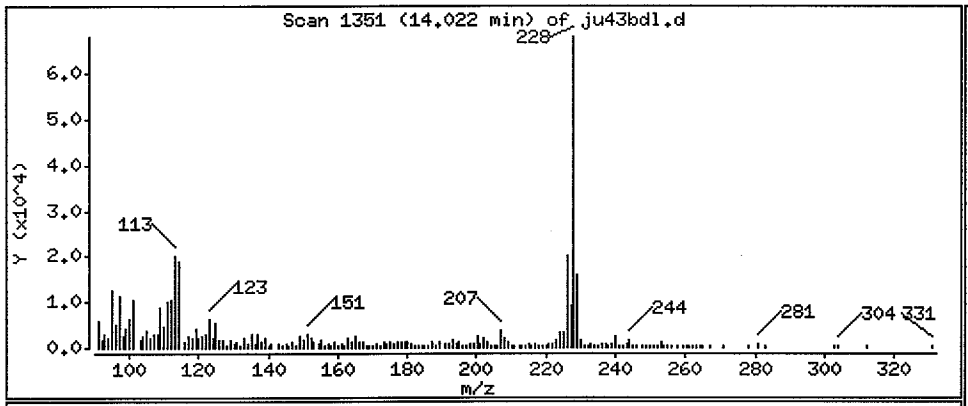
Operator: VTS

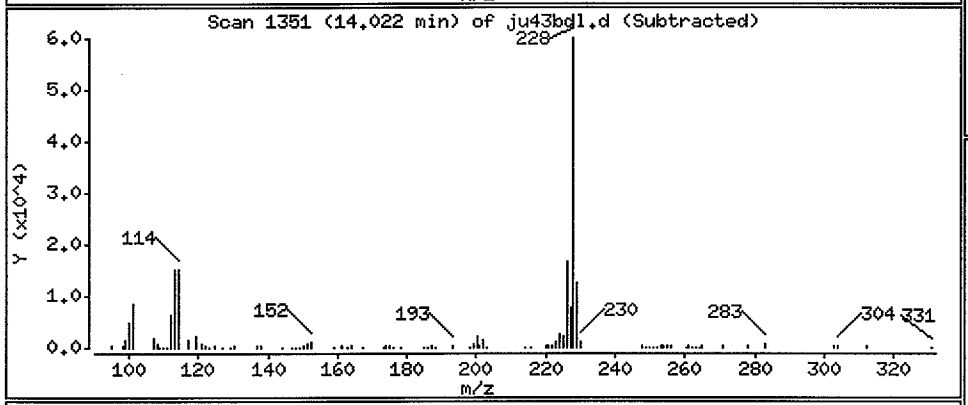
Column phase: ZB-5

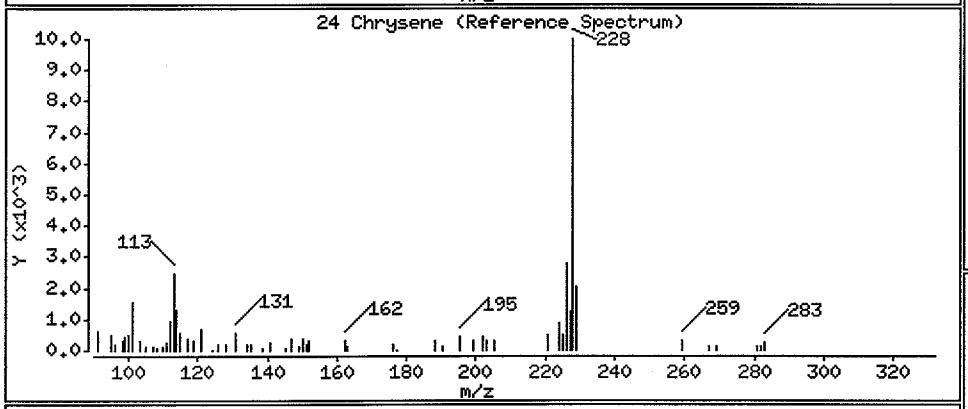
Column diameter: 0.25

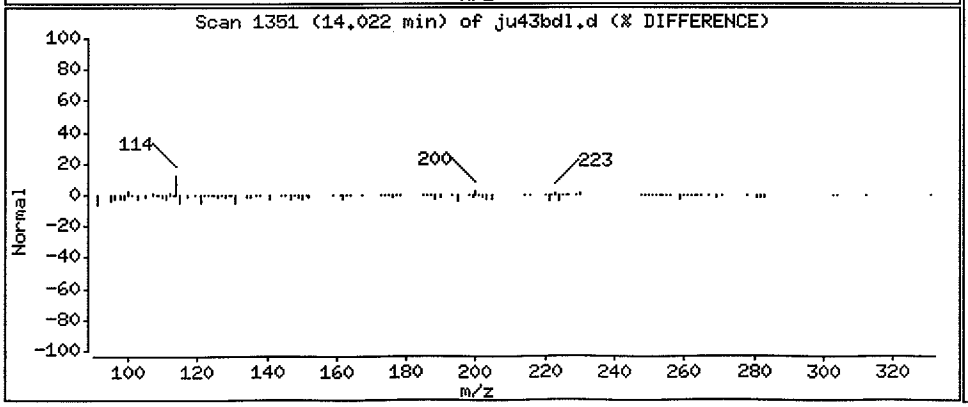
24 Chrysene

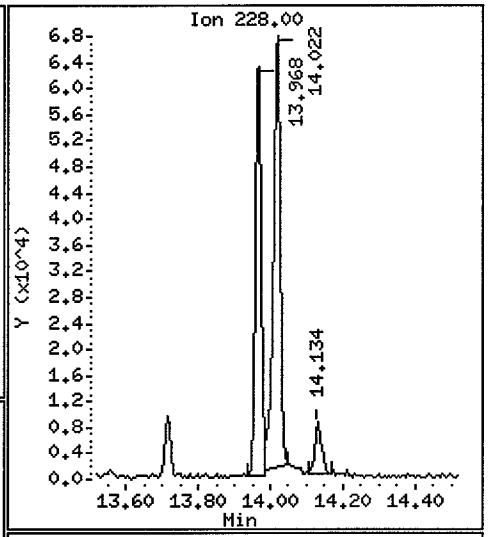
Concentration: 2185 ug/kg

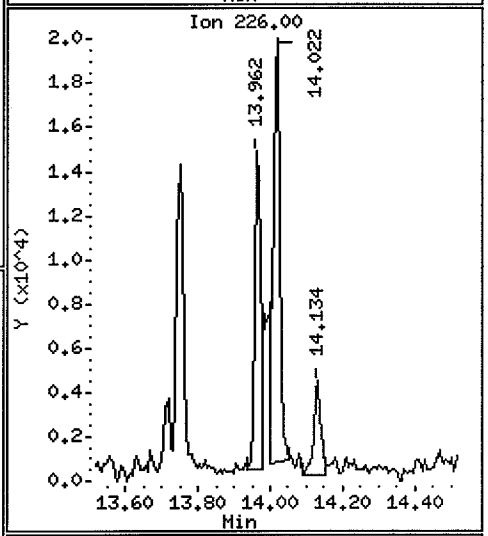


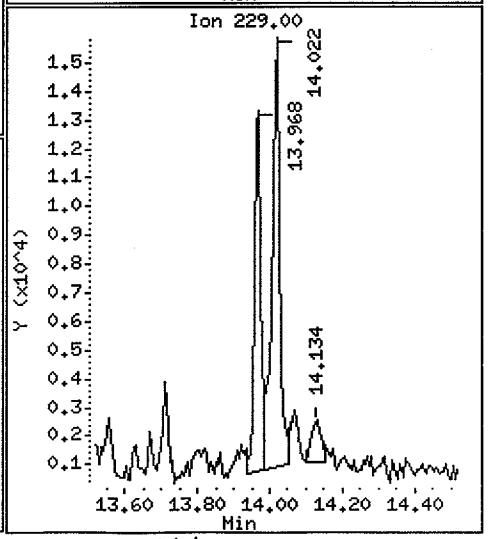












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

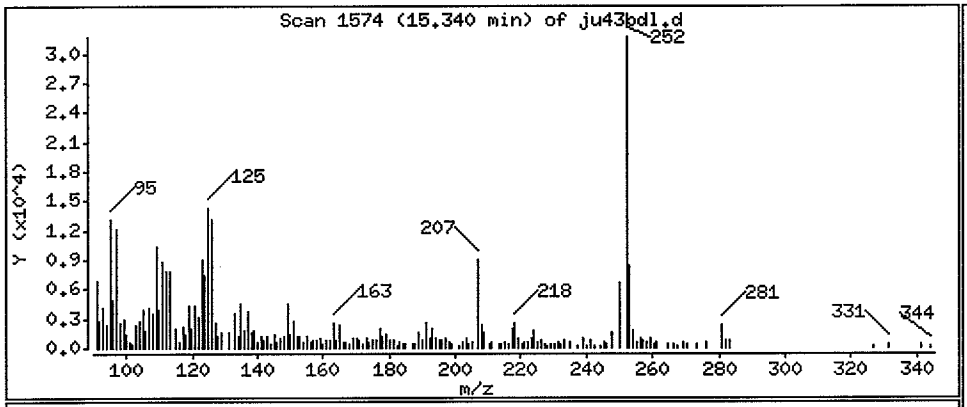
Operator: VTS

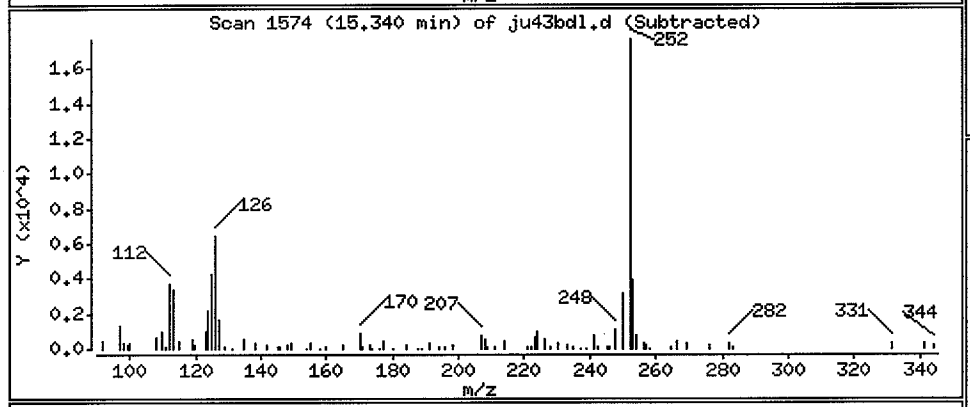
Column phase: ZB-5

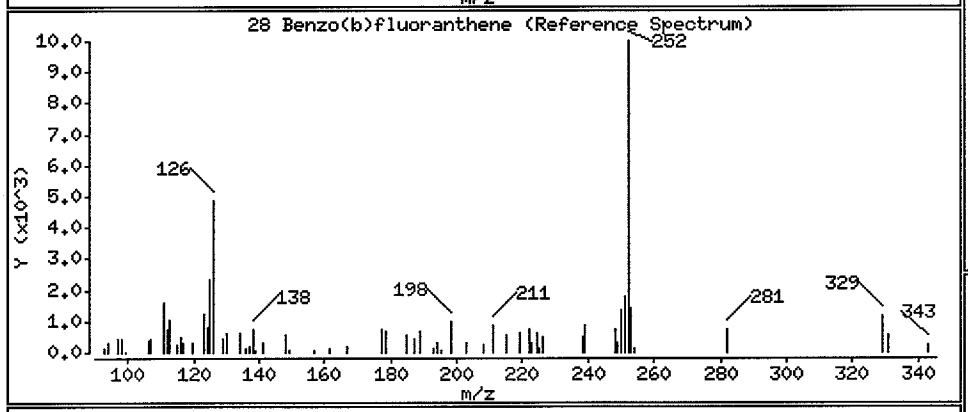
Column diameter: 0.25

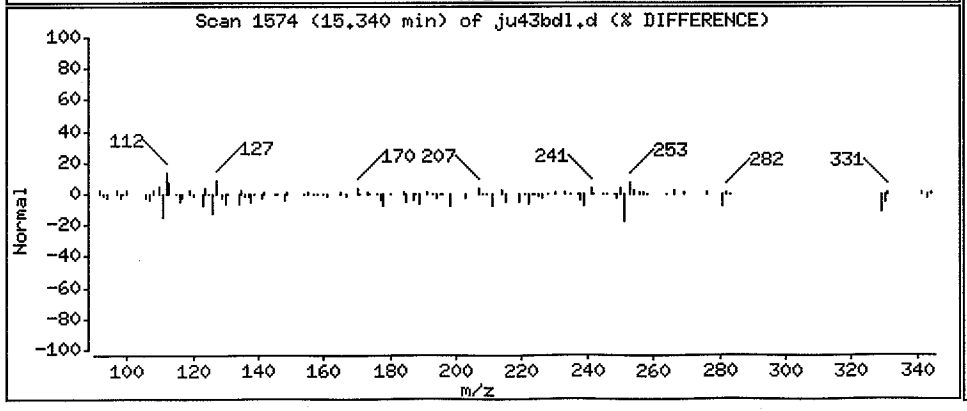
28 Benzo(b)fluoranthene

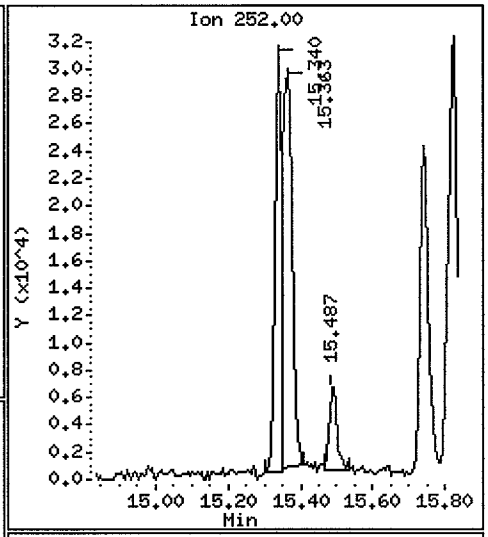
Concentration: 987.1 ug/kg

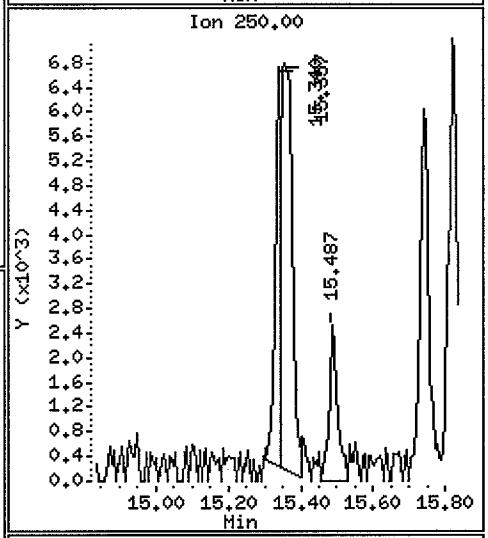


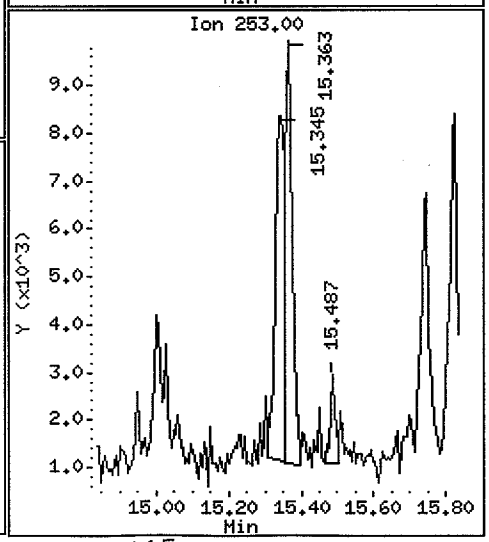












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

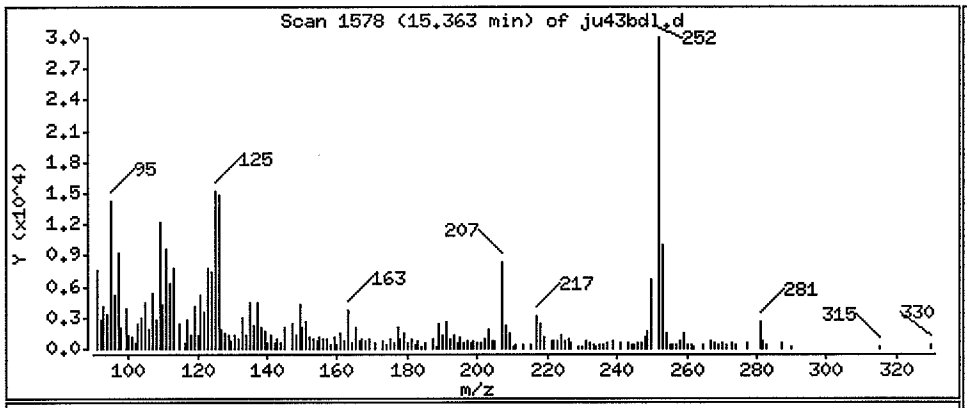
Operator: VTS

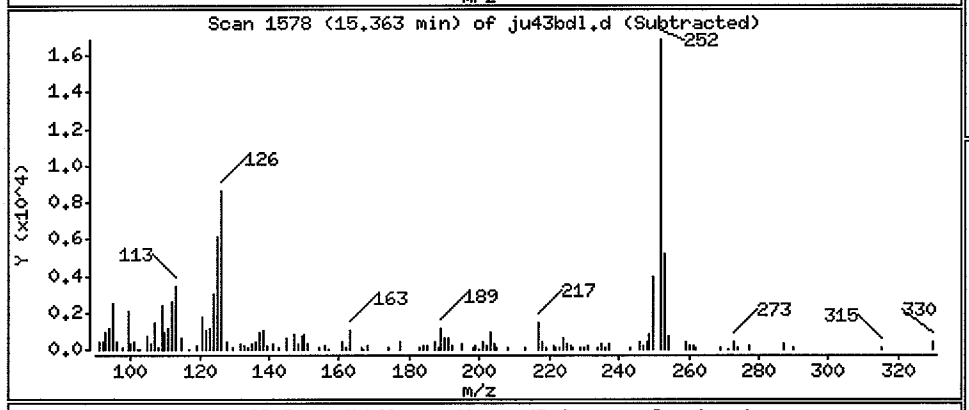
Column phase: ZB-5

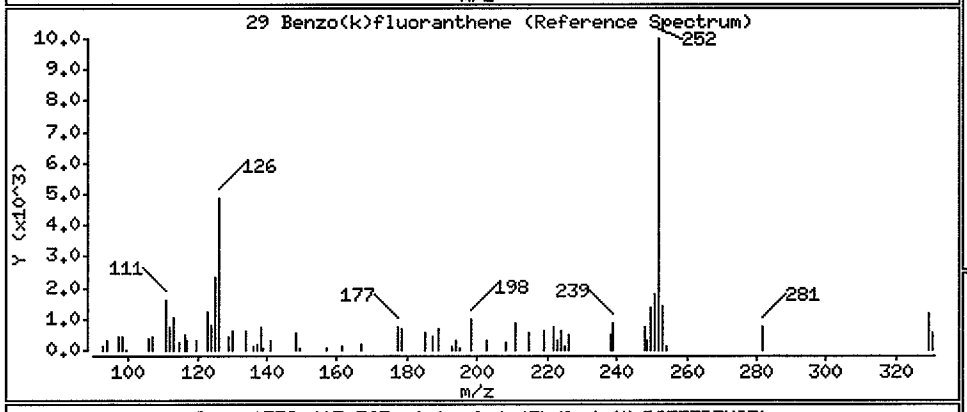
Column diameter: 0.25

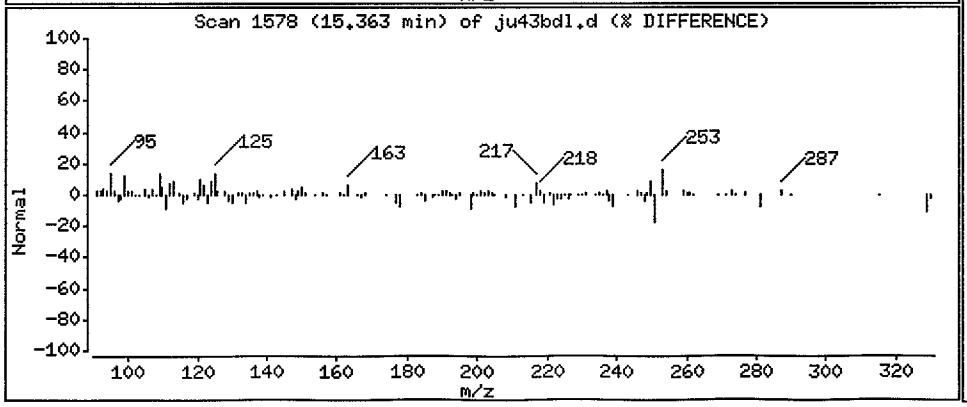
29 Benzo(k)fluoranthene

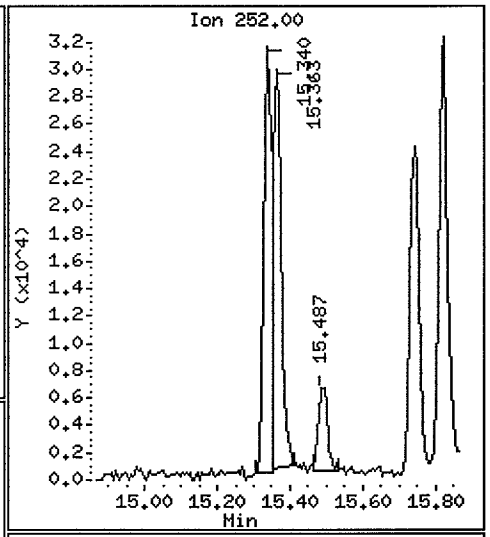
Concentration: 1070 ug/kg

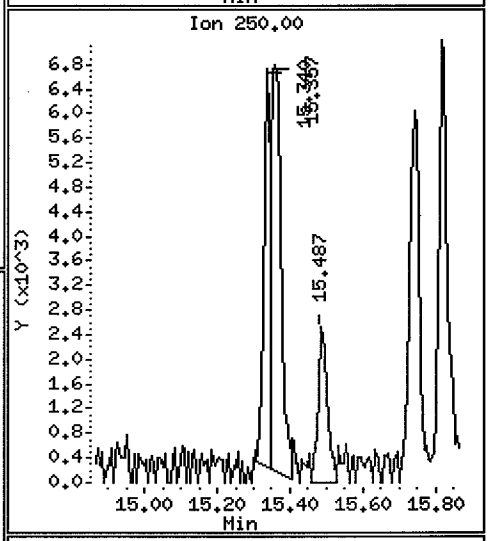


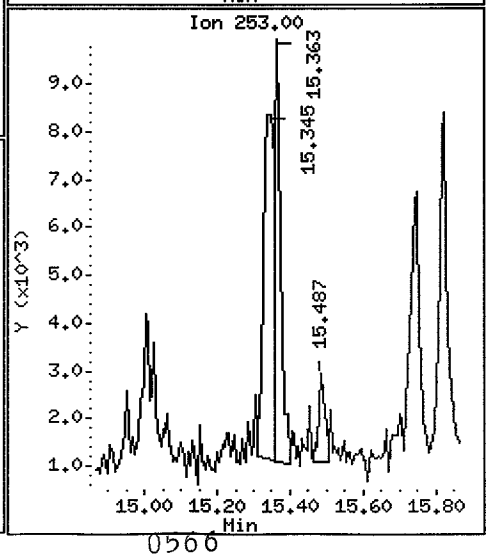












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

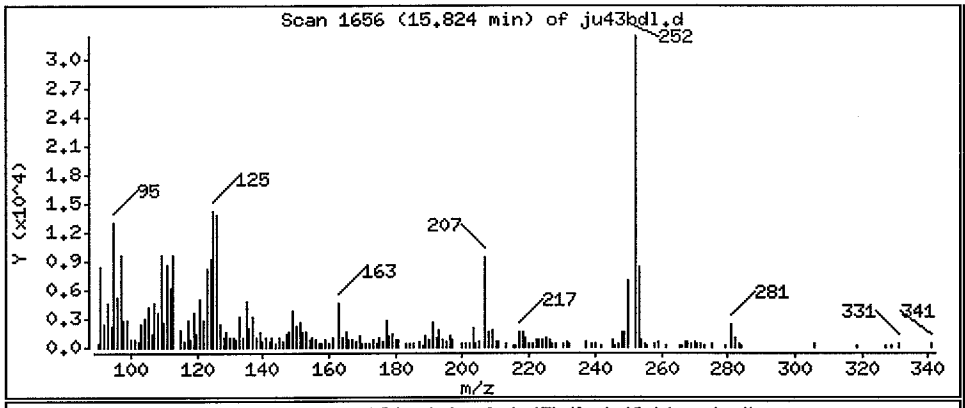
Operator: VTS

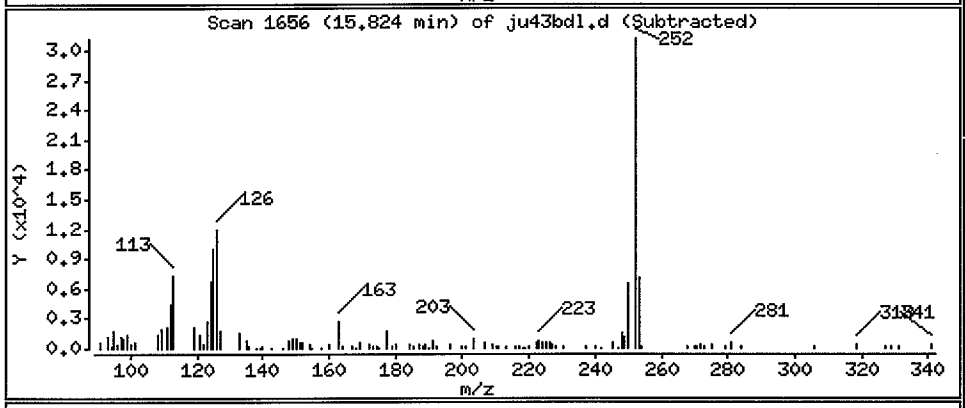
Column phase: ZB-5

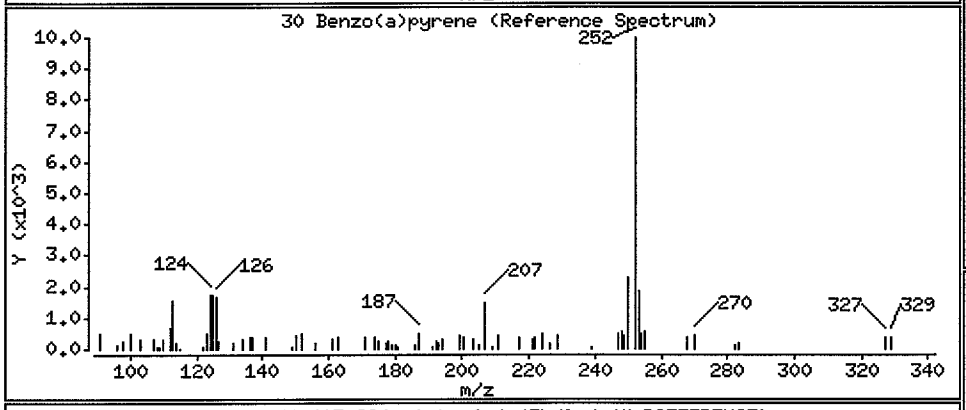
Column diameter: 0.25

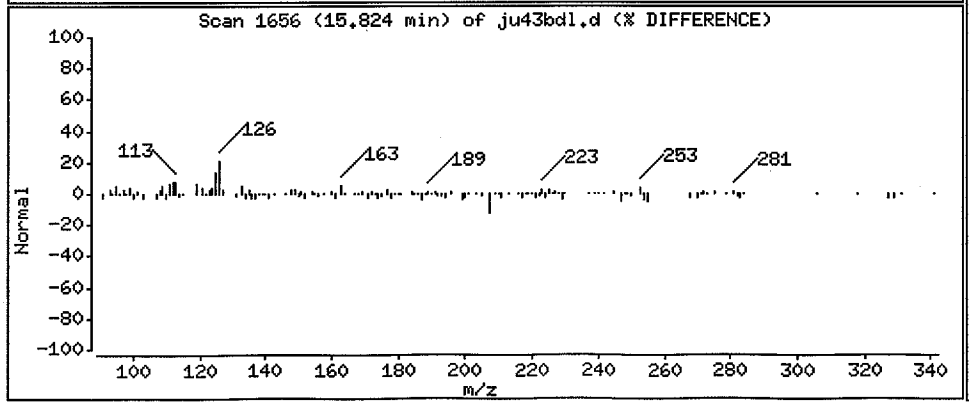
30 Benzo(a)pyrene

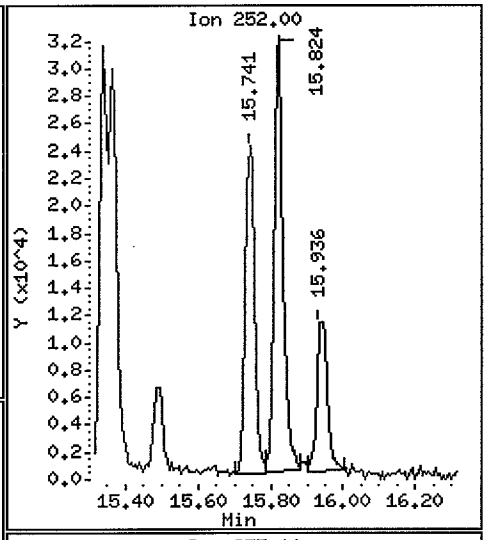
Concentration: 1400 ug/kg

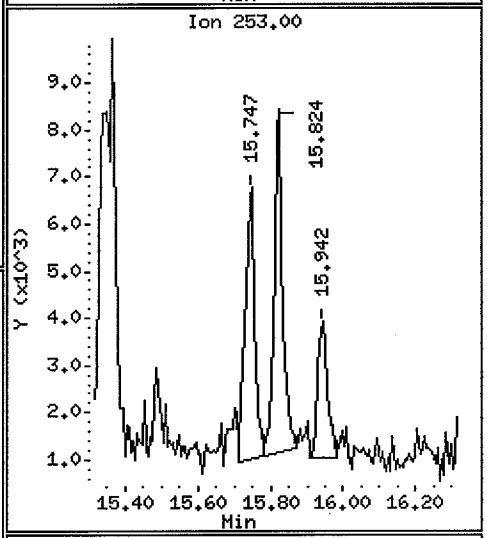


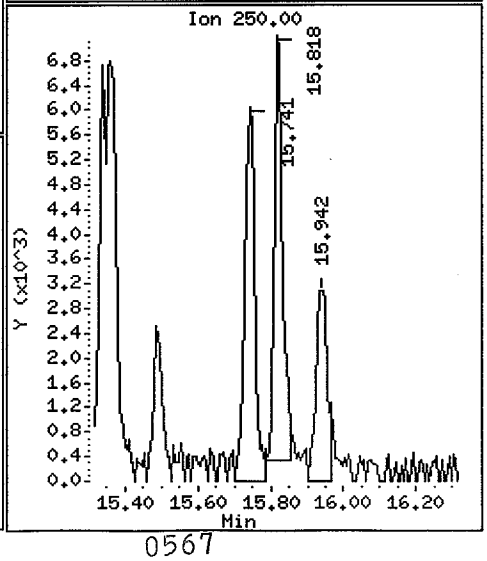












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

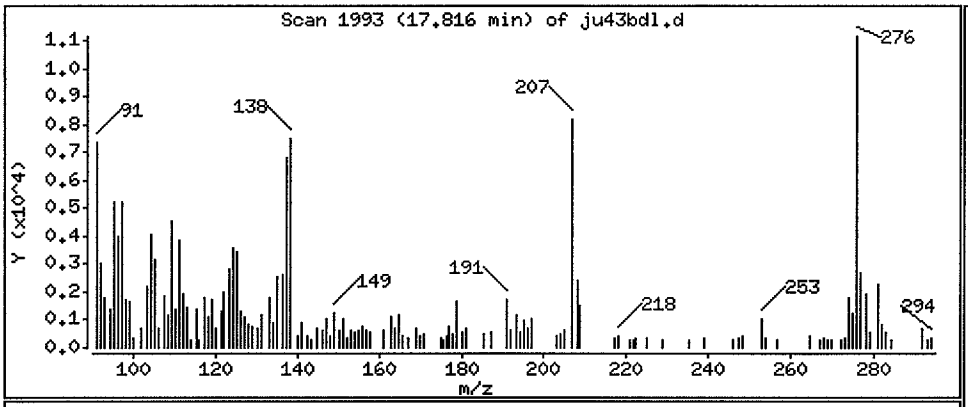
Operator: VTS

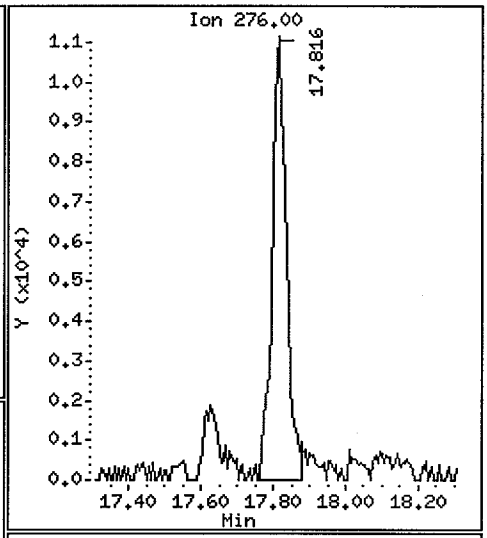
Column phase: ZB-5

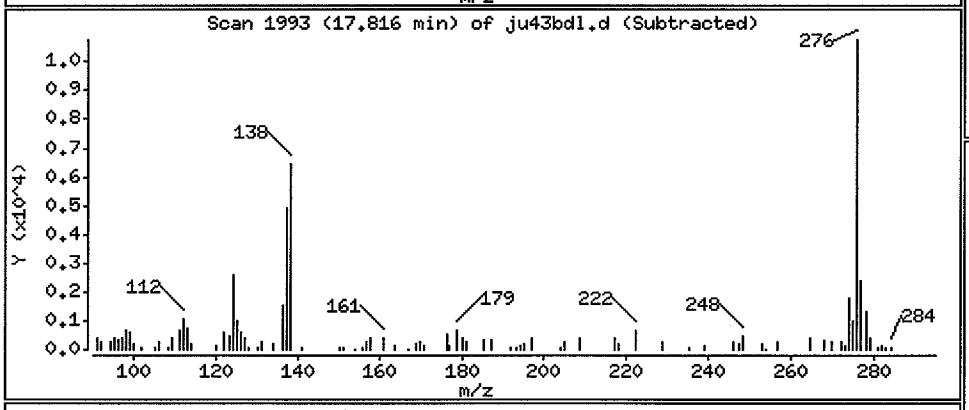
Column diameter: 0.25

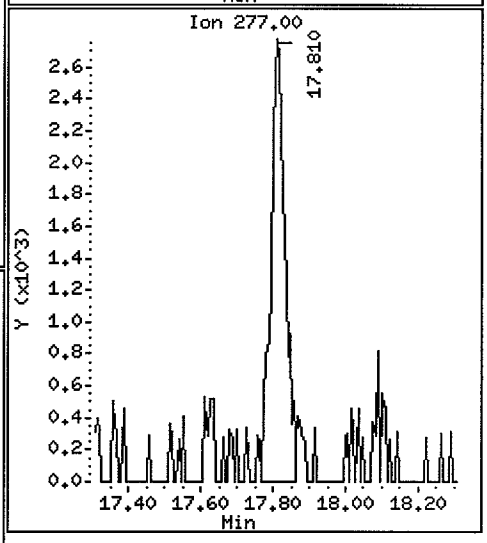
33 Indeno(1,2,3-cd)pyrene

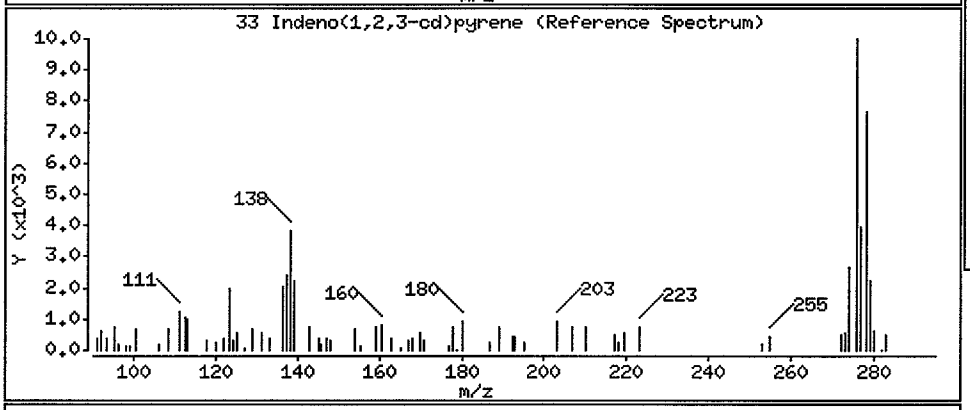
Concentration: 705.6 ug/kg

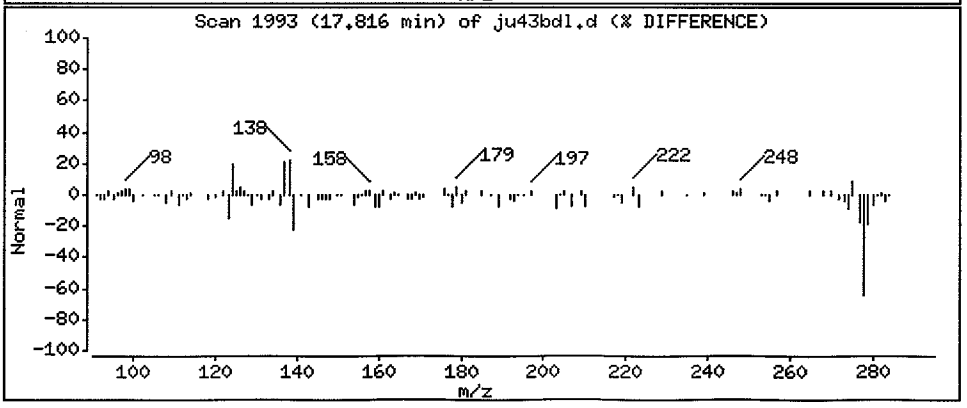












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

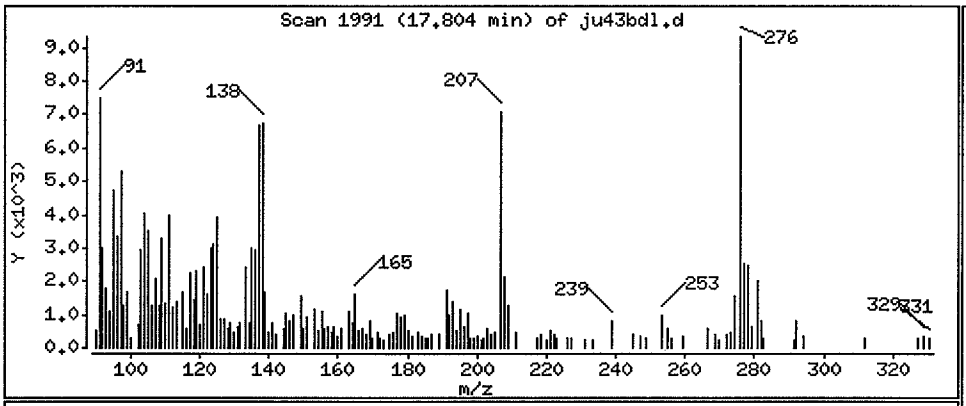
Operator: VTS

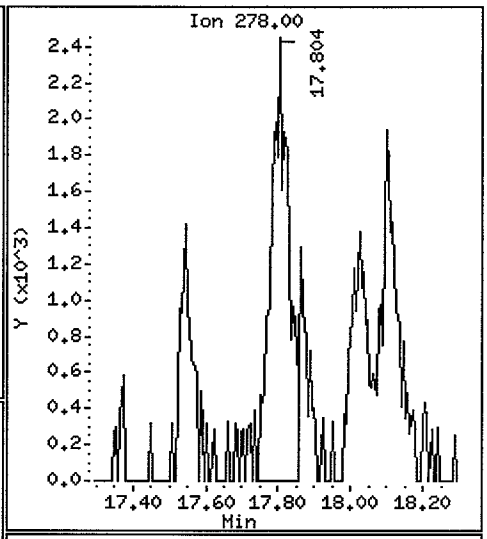
Column phase: ZB-5

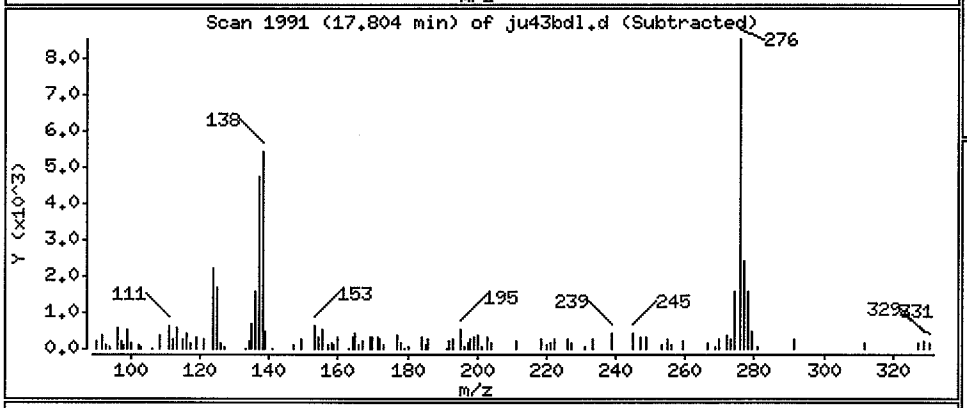
Column diameter: 0.25

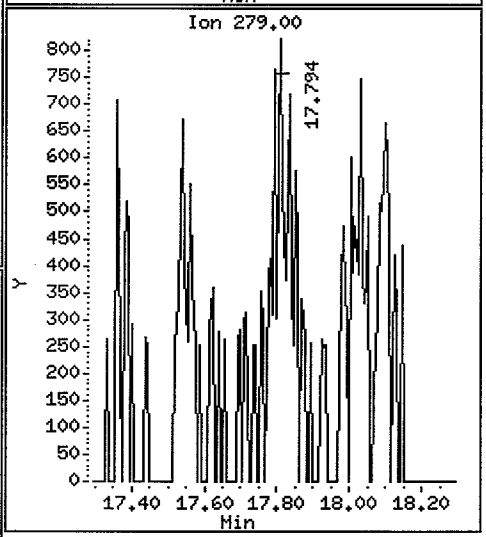
34 Dibenz(a,h)anthracene

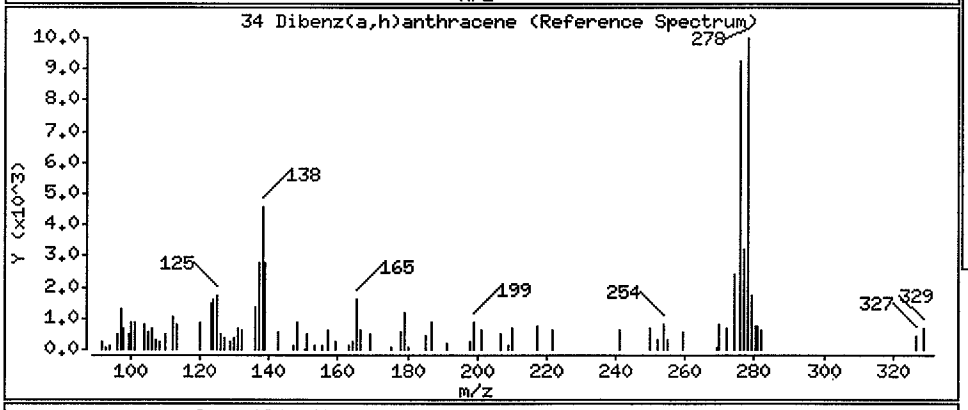
Concentration: 235.9 ug/kg

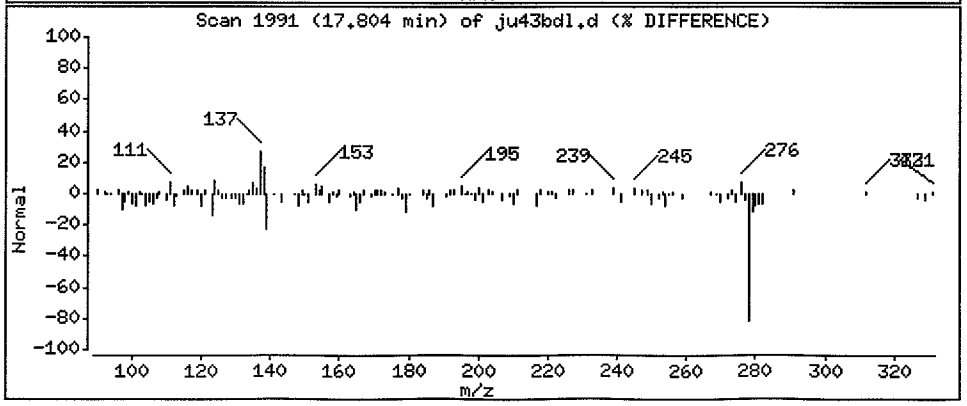












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

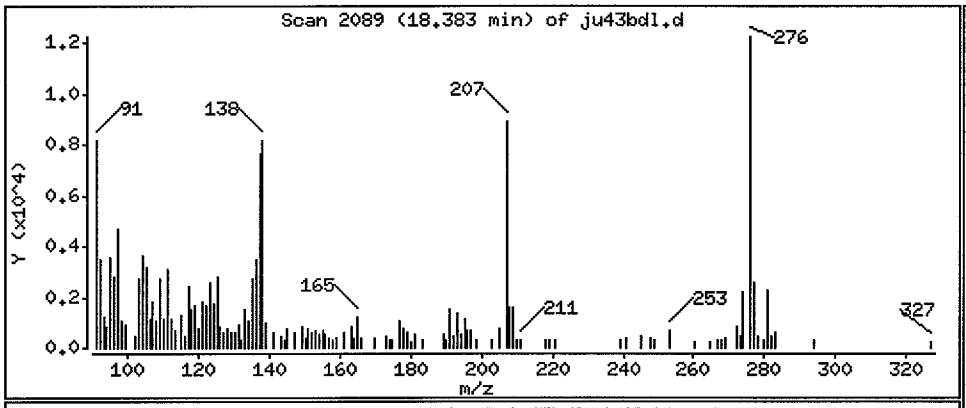
Operator: VTS

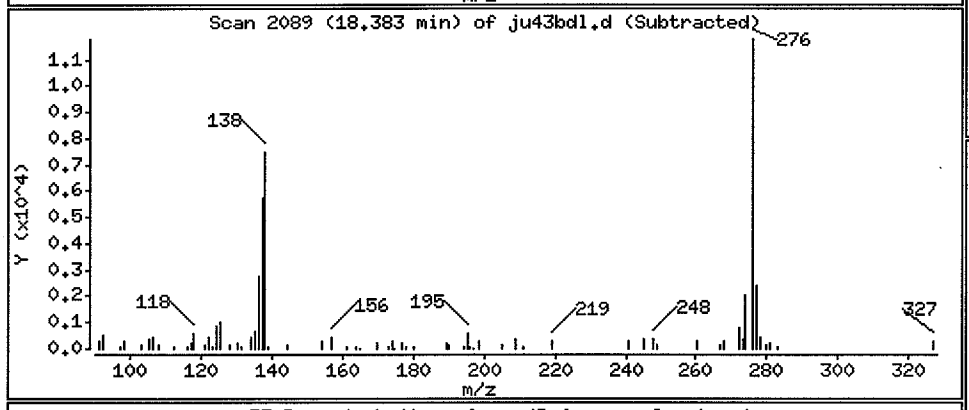
Column phase: ZB-5

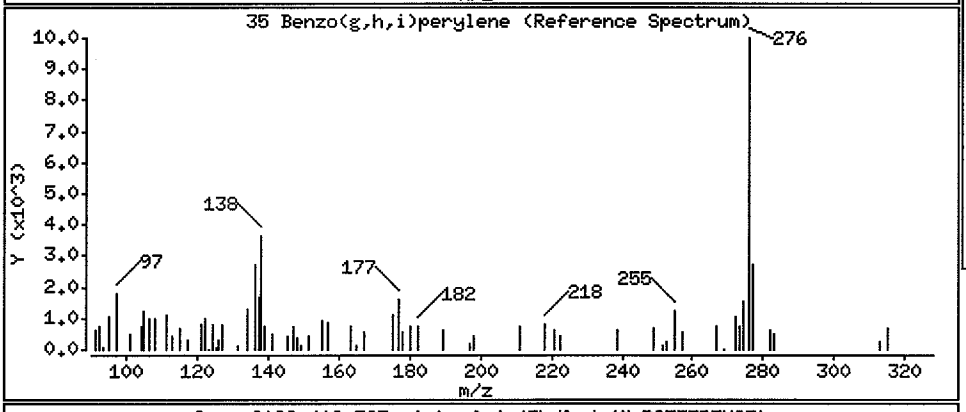
Column diameter: 0.25

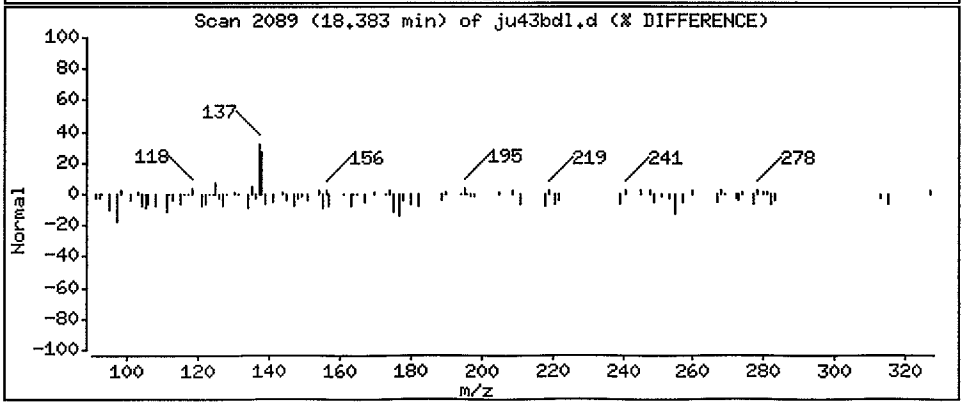
35 Benzo(g,h,i)perylene

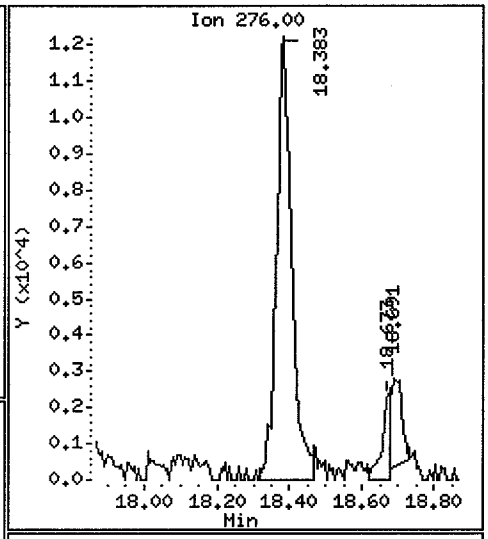
Concentration: 909.8 ug/kg

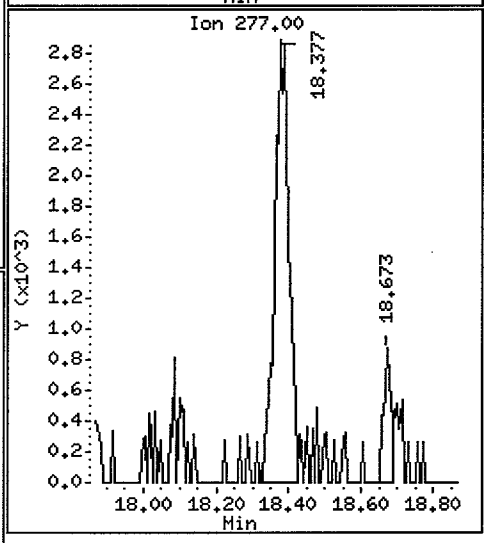












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

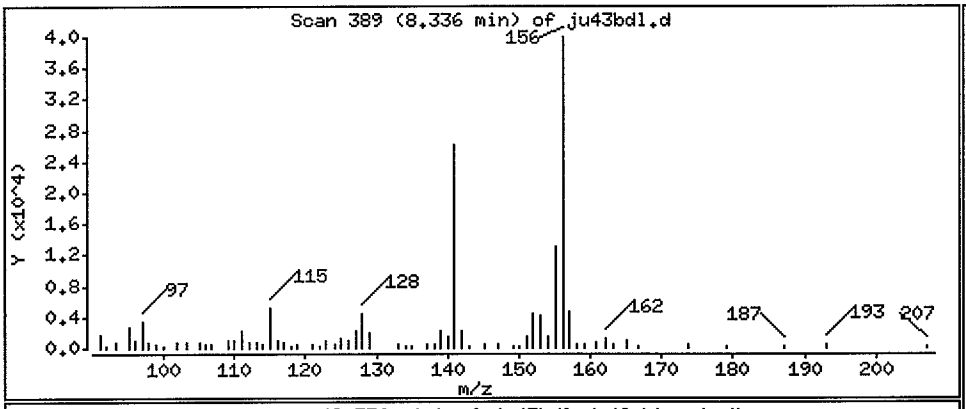
Operator: VTS

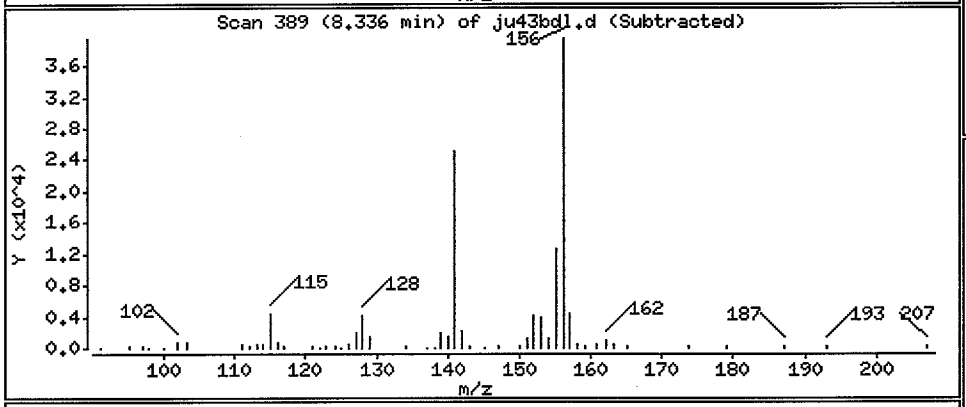
Column phase: ZB-5

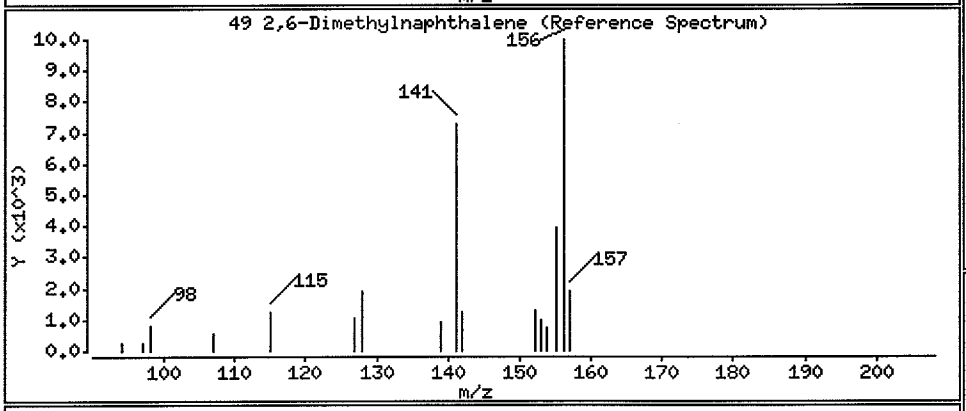
Column diameter: 0.25

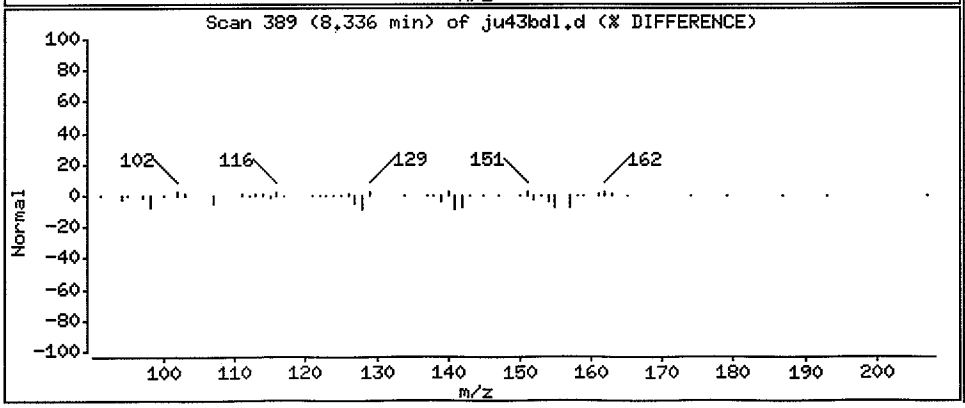
49 2,6-Dimethylnaphthalene

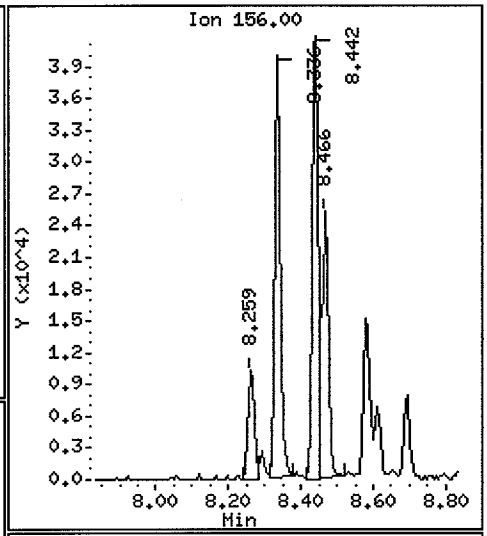
Concentration: 1210 ug/kg

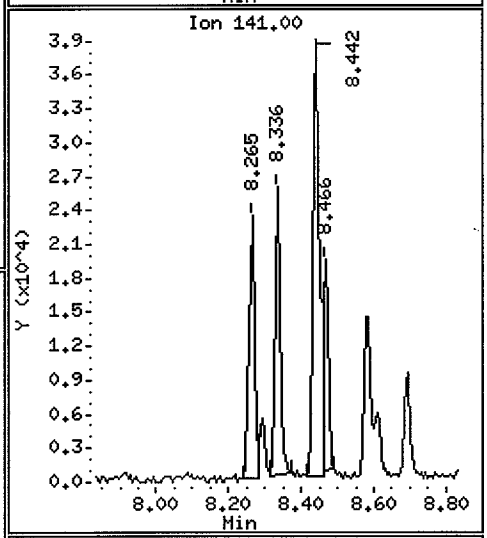


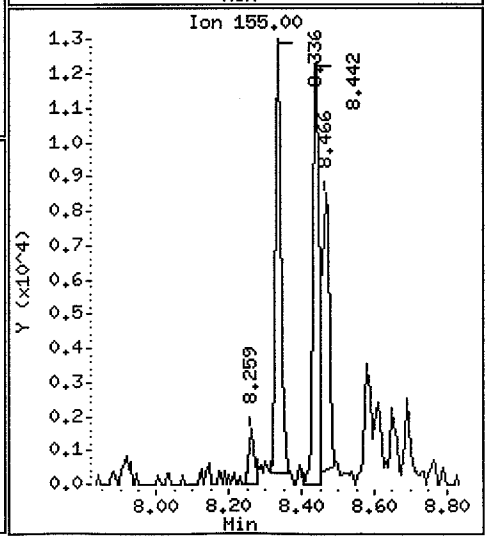












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

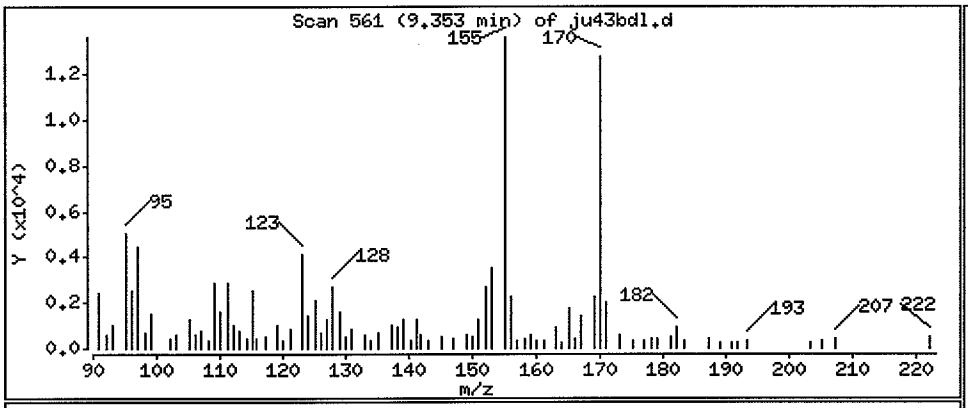
Operator: VTS

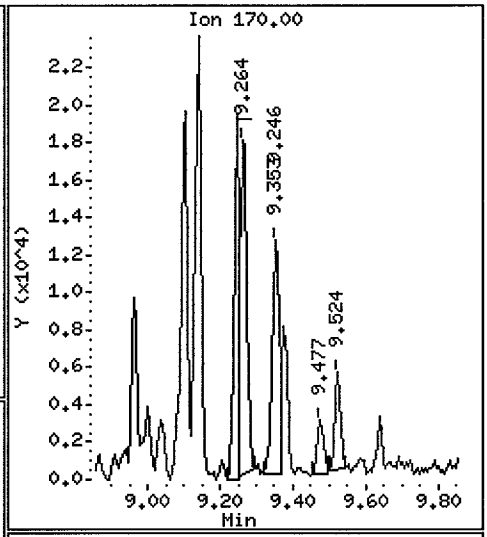
Column phase: ZB-5

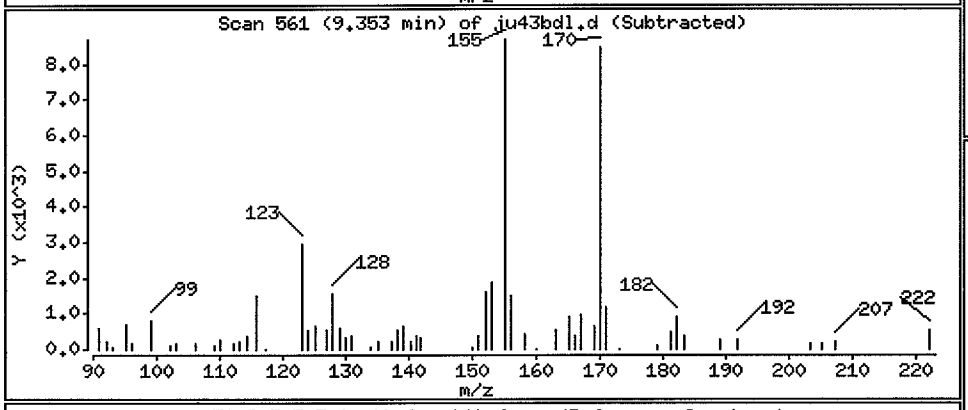
Column diameter: 0.25

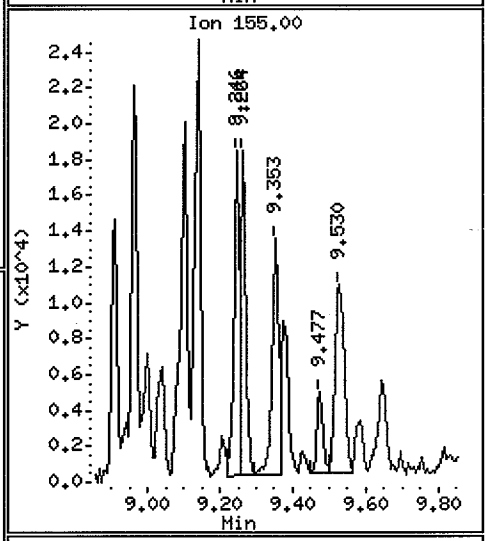
50 2,3,5-Trimethylnaphthalene

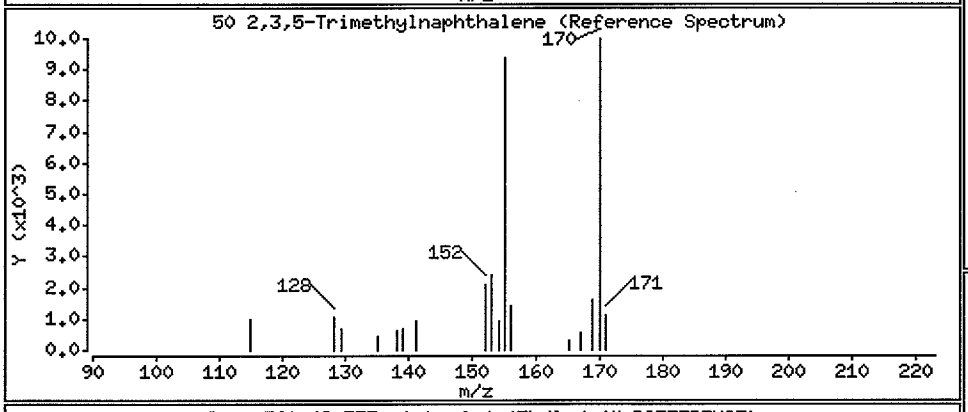
Concentration: 666.1 ug/kg

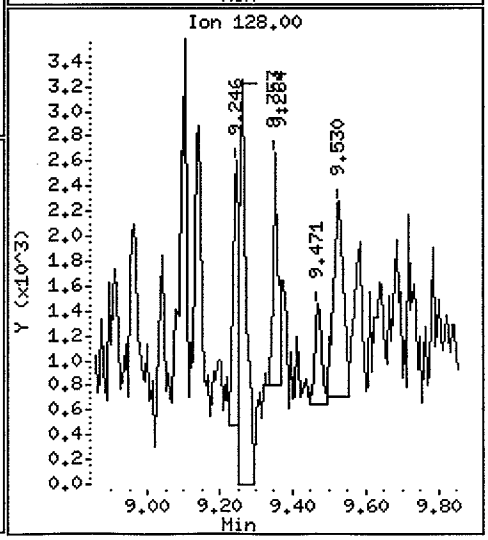


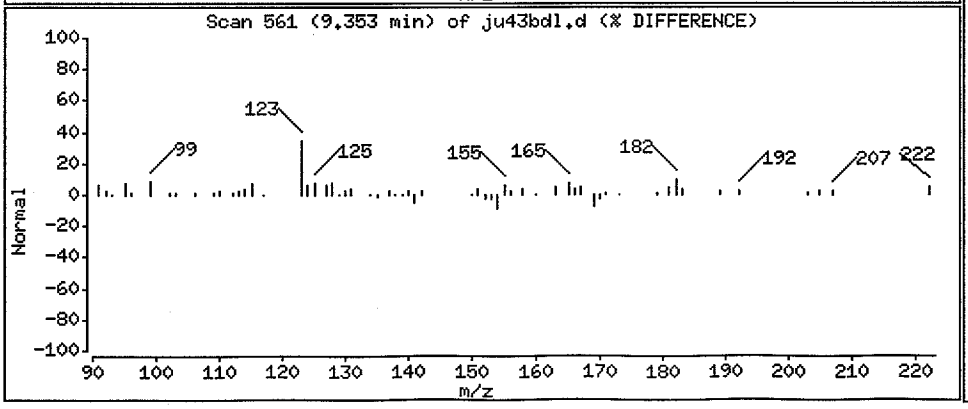












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

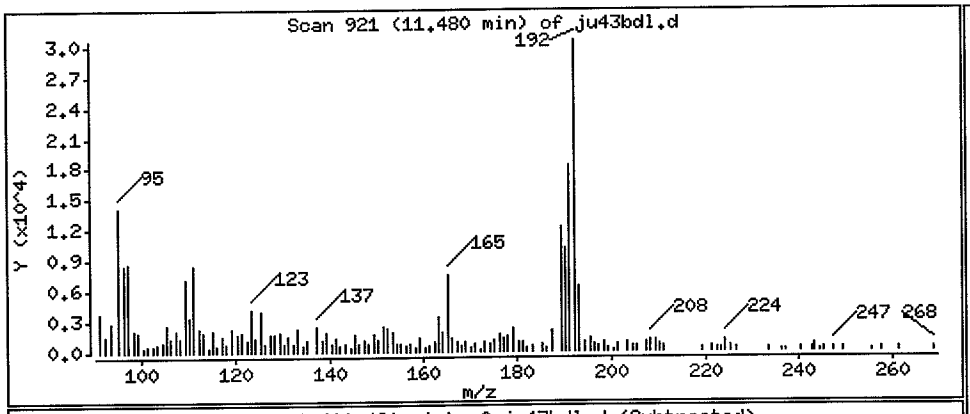
Operator: VTS

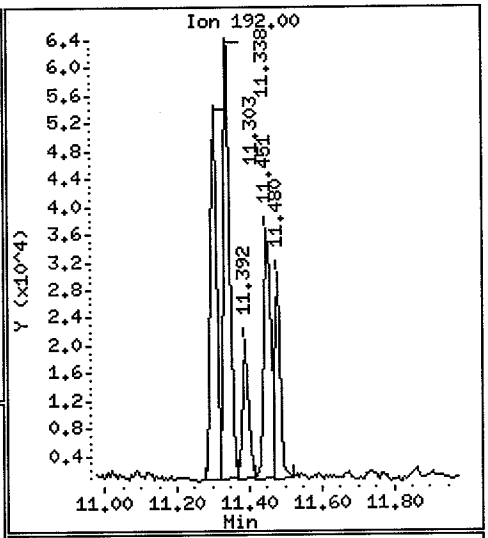
Column phase: ZB-5

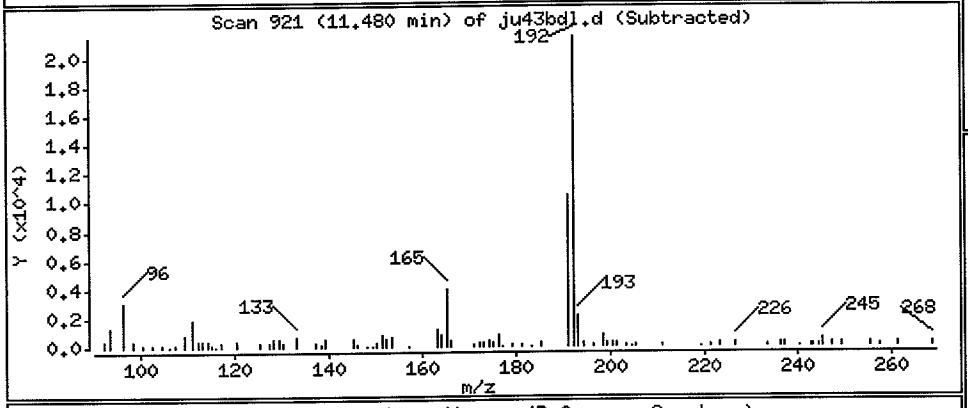
Column diameter: 0.25

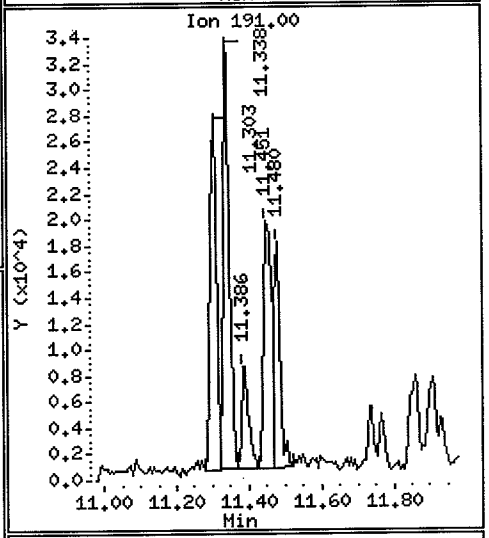
51 1-Methylphenanthrene

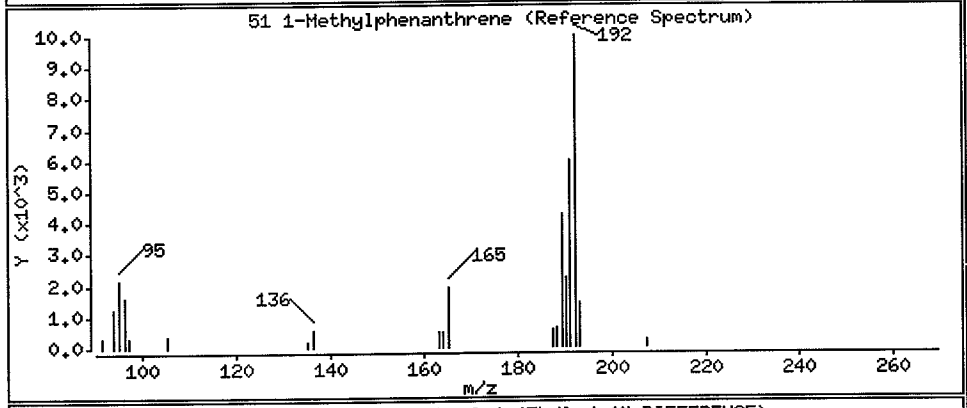
Concentration: 971.0 ug/kg

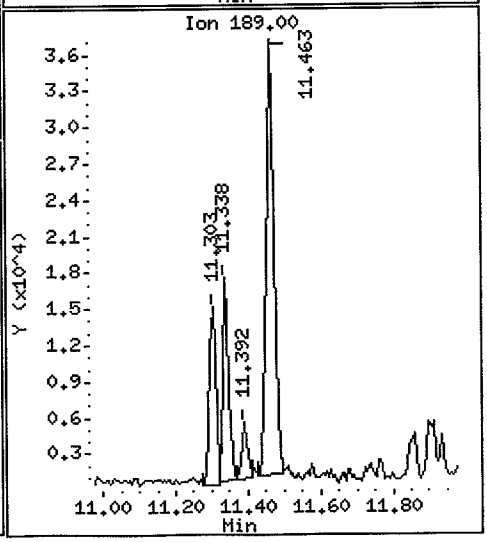


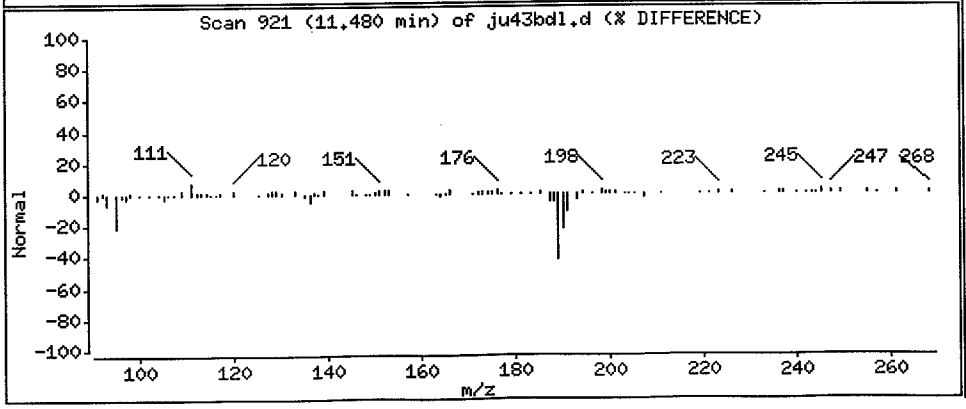












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

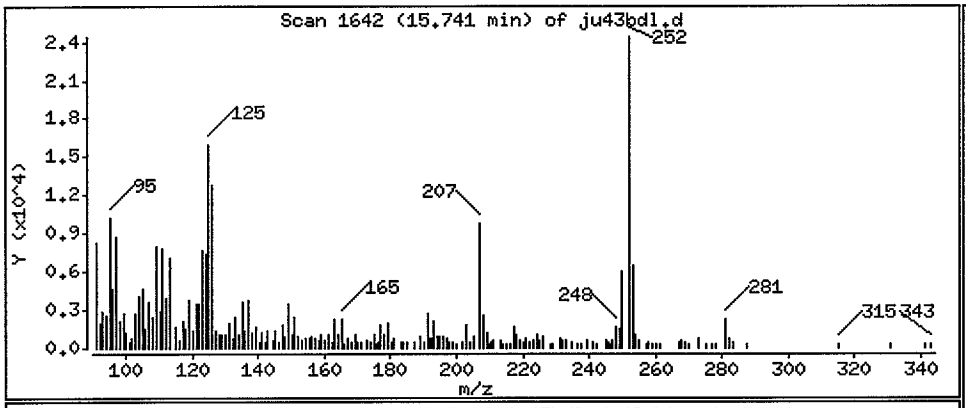
Operator: VTS

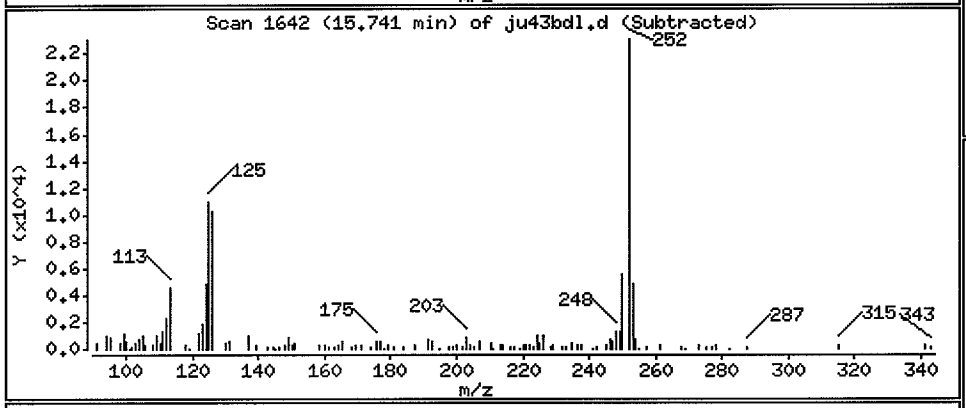
Column phase: ZB-5

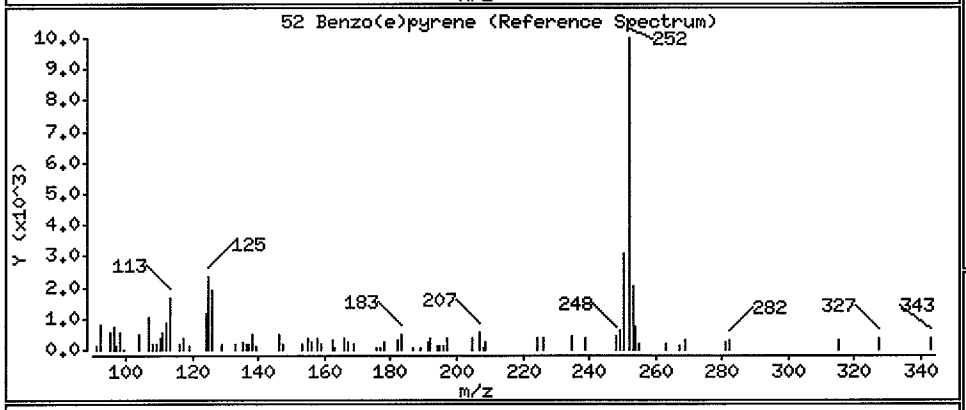
Column diameter: 0.25

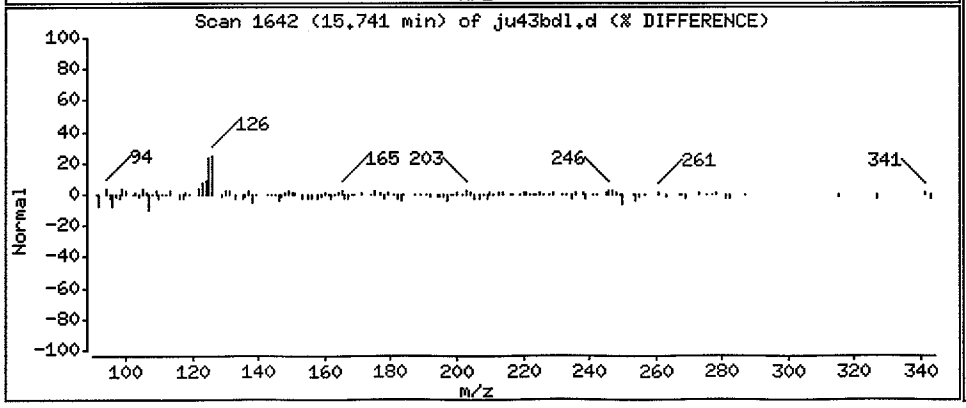
52 Benzo(e)pyrene

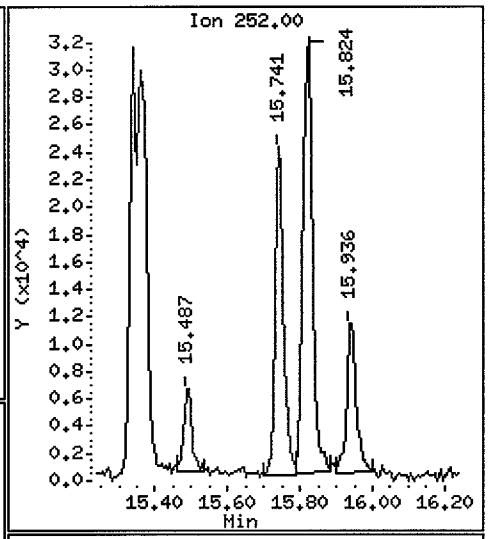
Concentration: 917.0 ug/kg

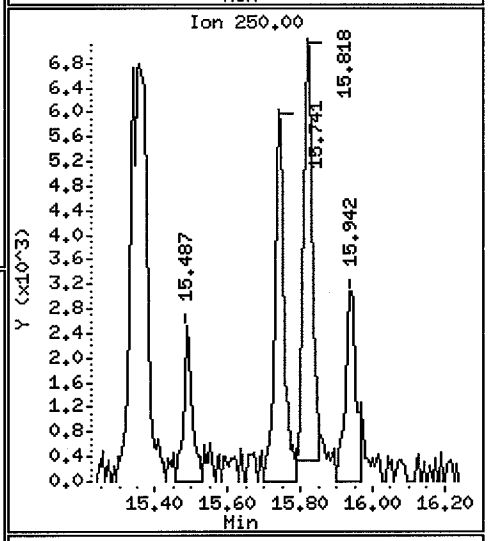


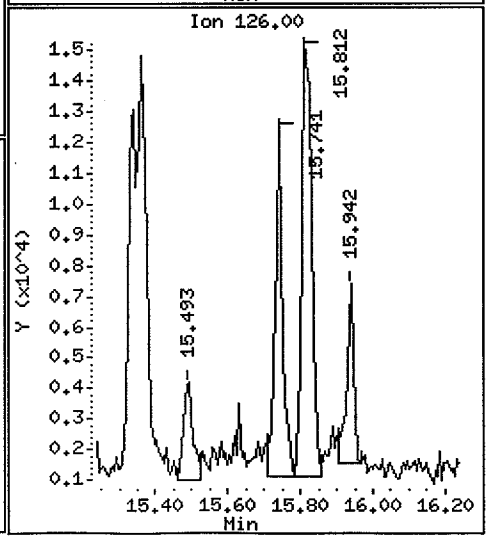












Data File: /chem3/nt1.i/20060913.b/ju43bdl.d

Date : 13-SEP-2006 15:08

Client ID: T4-B414-01-F

Instrument: nt1.i

Sample Info: JU43B,5

Volume Injected (uL): 1.0

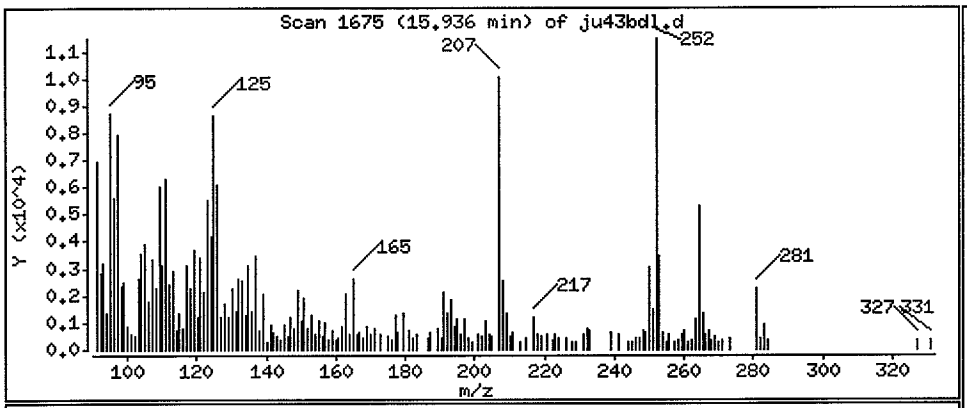
Operator: VTS

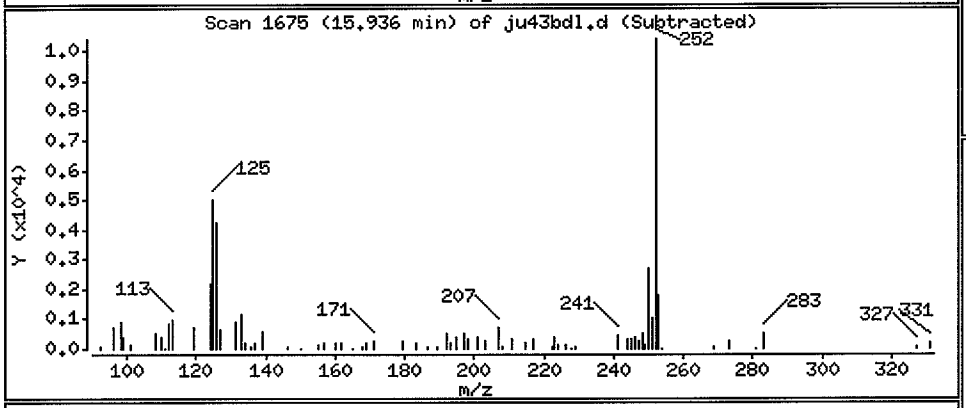
Column phase: ZB-5

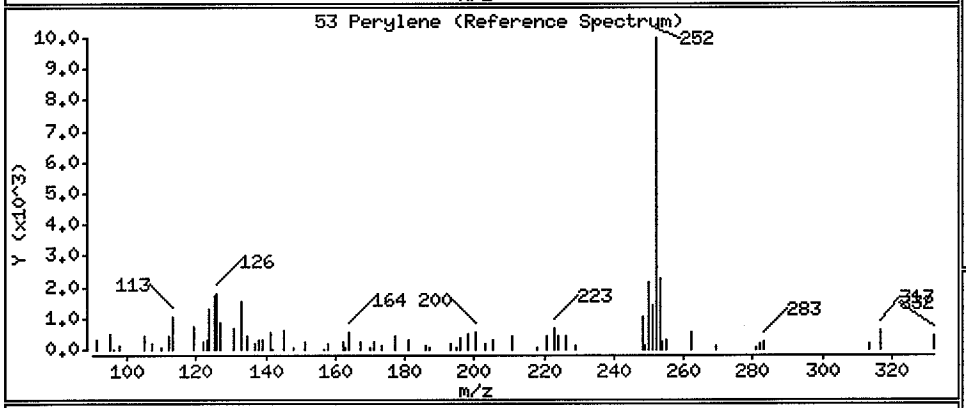
Column diameter: 0.25

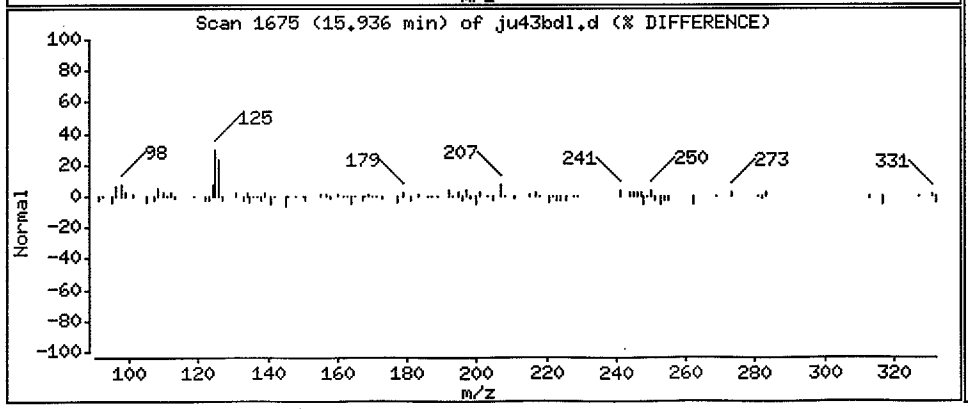
53 Perylene

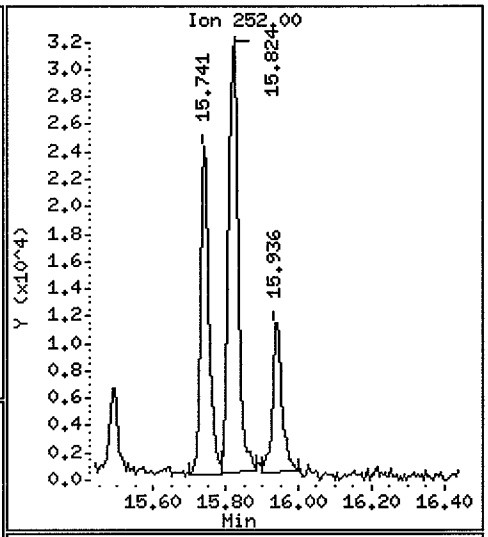
Concentration: 499.3 ug/kg

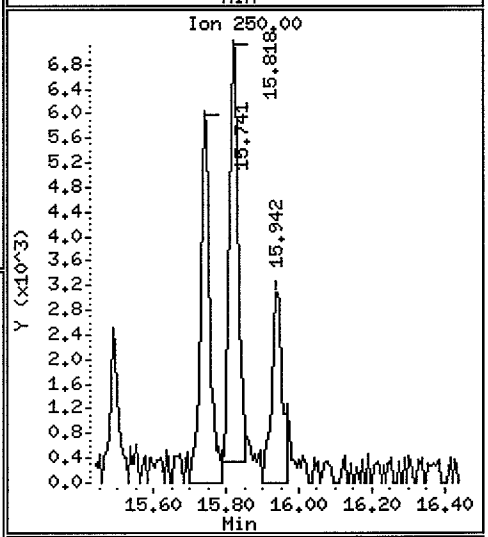


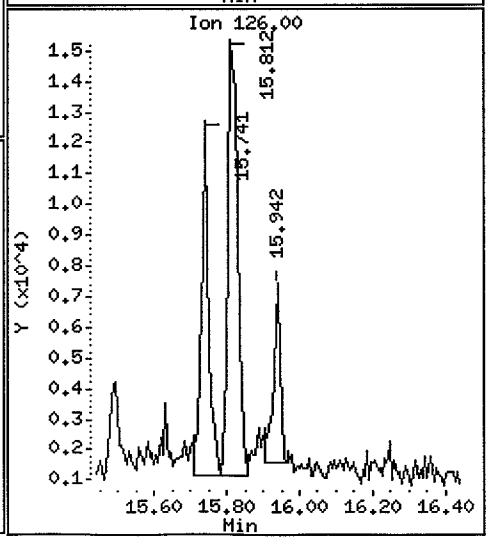












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-01-E**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43C
LIMS ID: 06-15847
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 14:17
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: 3.00
Percent Moisture: 43.7%
pH: 6.7

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	15	590	
91-57-6	2-Methylnaphthalene	15	430	
90-12-0	1-Methylnaphthalene	15	180	
208-96-8	Acenaphthylene	15	160	
83-32-9	Acenaphthene	15	1,100	
86-73-7	Fluorene	15	790	
85-01-8	Phenanthrene	15	3,000	E
120-12-7	Anthracene	15	510	
206-44-0	Fluoranthene	15	4,200	E
129-00-0	Pyrene	15	3,800	E
56-55-3	Benzo(a)anthracene	15	1,700	E
218-01-9	Chrysene	15	2,300	E
205-99-2	Benzo(b)fluoranthene	15	1,700	E
207-08-9	Benzo(k)fluoranthene	15	1,500	E
50-32-8	Benzo(a)pyrene	15	2,300	E
193-39-5	Indeno(1,2,3-cd)pyrene	15	1,300	
53-70-3	Dibenz(a,h)anthracene	15	330	
191-24-2	Benzo(g,h,i)perylene	15	1,700	E
198-55-0	Perylene	15	750	
92-52-4	Biphenyl	15	79	
581-42-0	2,6-Dimethylnaphthalene	15	190	
832-69-9	1-Methylphenanthrene	15	260	
192-97-2	Benzo(e)pyrene	15	1,400	
2245-38-7	2,3,5-Trimethylnaphthalene	15	170	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	93.3%
d14-Dibenzo(a,h)anthracen	88.8%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43c.d
Lab Smp Id: JU43CDL Client Smp ID: T4-B414-01-E
Inj Date : 12-SEP-2006 14:17
Operator : VTS Inst ID: nt1.i
Smp Info : JU43C,3
Misc Info : 06-15847
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 1
Dil Factor: 3.00000
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	3.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.10000	Weight of sample extracted (g)
M	43.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.813	6.808	(1.000)	323562	2.00000		
	2 Naphthalene	128	6.837	6.832	(1.003)	627224	4.03485	593.9	
$	3 2-Methylnaphthalene-d10	152	7.570	7.564	(1.111)	74870	0.93316	137.4	
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	241894	2.92778	431.0	
	5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	112914	1.25941	185.4	
	7 Acenaphthylene	152	8.693	8.687	(0.980)	147765	1.07696	158.5	
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	167006	2.00000		
	9 Acenaphthene	153	8.911	8.906	(1.005)	635862	7.67319	1129	
	10 Dibenzofuran	168	9.100	9.095	(1.026)	288683	~~2.45122~~	360.8	NR
	11 Fluorene	166	9.526	9.521	(1.074)	485907	5.40448	795.5	
*	15 Phenanthrene-d10	188	10.684	10.679	(1.000)	212006	2.00000		
	16 Phenanthrene	178	10.714	10.709	(1.003)	2311919	20.1174	2961	E
	17 Anthracene	178	10.767	10.762	(1.008)	402898	3.47610	511.7	
	19 Fluoranthene	202	12.209	12.198	(1.143)	2835938	28.9103	4256	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.499	12.488	(0.893)	3165454	25.9750	3823	E
	22 Benzo(a)anthracene	228	13.976	13.965	(0.998)	1211131	11.6667	1717	E
*	23 Chrysene-d12	240	14.000	13.989	(1.000)	173153	2.00000		
	24 Chrysene	228	14.029	14.018	(1.002)	1499527	15.3716	2263	E
	28 Benzo(b)fluoranthene	252	15.359	15.336	(0.965)	1230283	11.8049	1738	E
	29 Benzo(k)fluoranthene	252	15.383	15.366	(0.966)	1112961	10.2252	1505(H)	E
	30 Benzo(a)pyrene	252	15.844	15.821	(0.995)	1444838	15.3707	2263	E
*	31 Perylene-d12	264	15.921	15.898	(1.000)	184040	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.847	17.813	(1.121)	919477	9.11172	1341	
$	32 Dibenz(a,h)anthrancene-d14	292	17.765	17.736	(1.116)	53530	SS 0.88759	130.7	
	34 Dibenz(a,h)anthracene	278	17.830	17.807	(1.120)	185422	2.26712	333.7	
	35 Benzo(g,h,i)perylene	276	18.421	18.380	(1.157)	1018415	11.4195	1681	E
	48 Biphenyl	154	8.143	8.138	(0.918)	55946	0.54021	79.52	
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	103566	1.32385	194.9	
	50 2,3,5-Trimethylnaphthalene	170	9.354	9.355	(1.055)	70215	1.13620	167.2	
	51 1-Methylphenanthrene	192	11.488	11.477	(0.821)	144597	1.76925	260.4	
	52 Benzo(e)pyrene	252	15.761	15.744	(0.990)	973428	9.29553	1368	
	53 Perylene	252	15.956	15.939	(1.002)	498796	5.10463	751.4	

QC Flag Legend

H - Operator selected an alternate compound hit.

UTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43c.d
Lab Smp Id: JU43CDL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15847

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-01-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	323562	-5.27
8 Acenaphthene-d10	169375	84688	338750	167006	-1.40
15 Phenanthrene-d10	232185	116092	464370	212006	-8.69
23 Chrysene-d12	179856	89928	359712	173153	-3.73
31 Perylene-d12	175373	87686	350746	184040	4.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	14.00	0.08
31 Perylene-d12	15.90	15.40	16.40	15.92	0.14

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

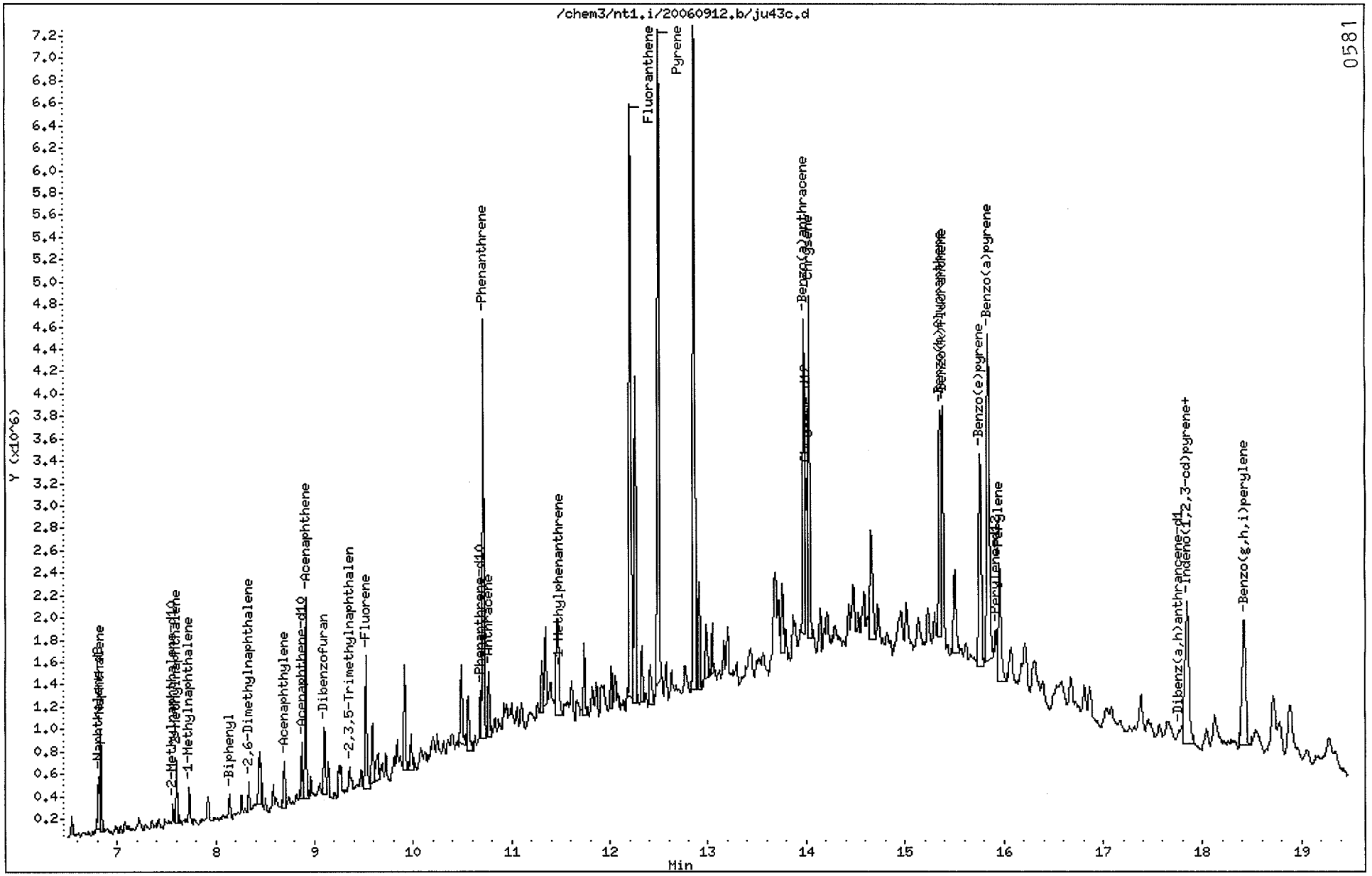
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43CDL
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15847

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-01-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.2	137.4	93.32	32-97
$ 32 Dibenz(a,h)anthran	147.2	130.7	88.76	21-105

Data File: /chem3/nt1.i/20060912.b/ju43c.d
Date : 12-SEP-2006 14:17
Client ID: T4-B414-01-E
Sample Info: JU43C,3
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

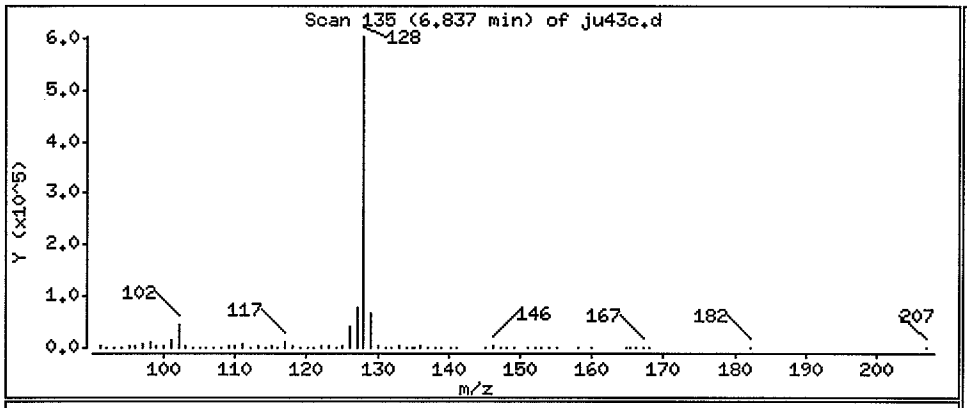
Operator: VTS

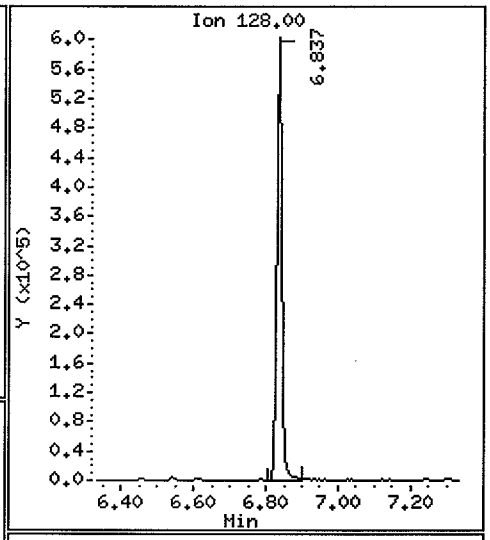
Column phase: ZB-5

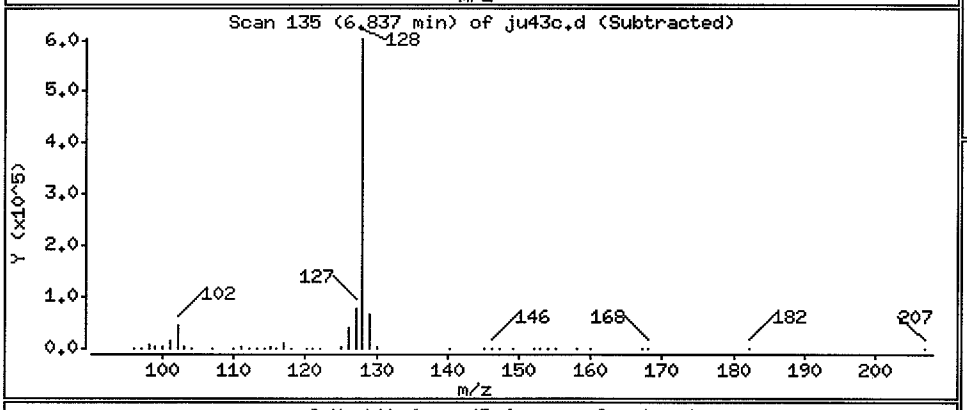
Column diameter: 0.25

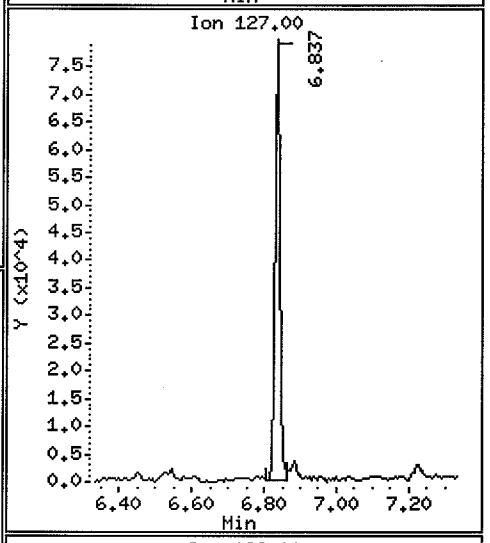
2 Naphthalene

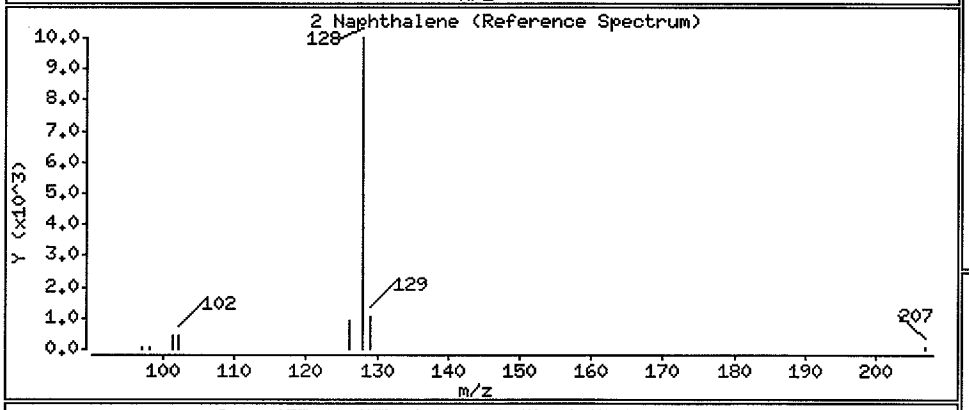
Concentration: 593.9 ug/kg

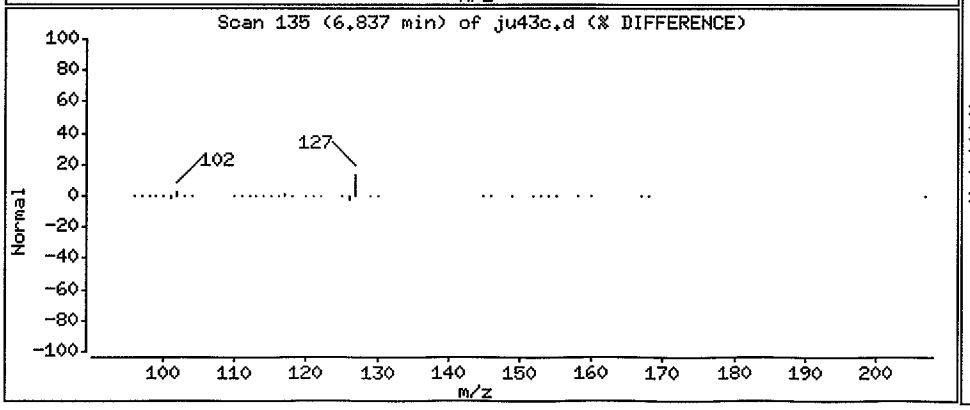


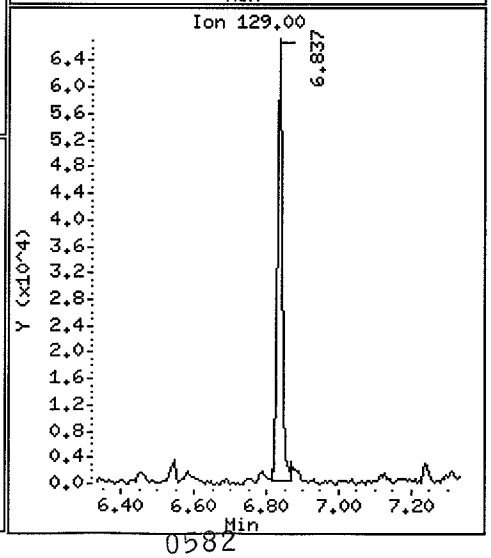












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

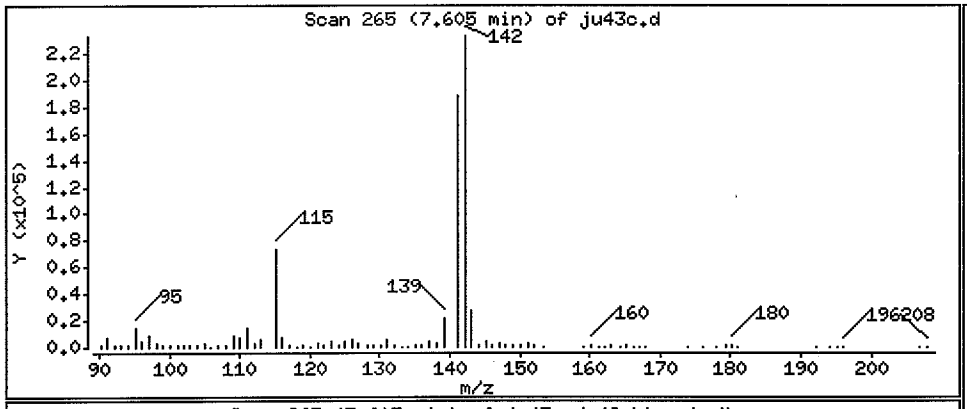
Operator: VTS

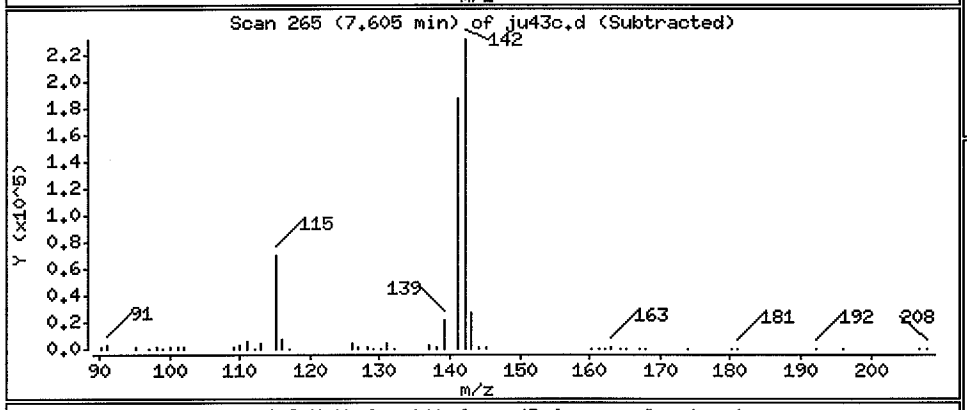
Column phase: ZB-5

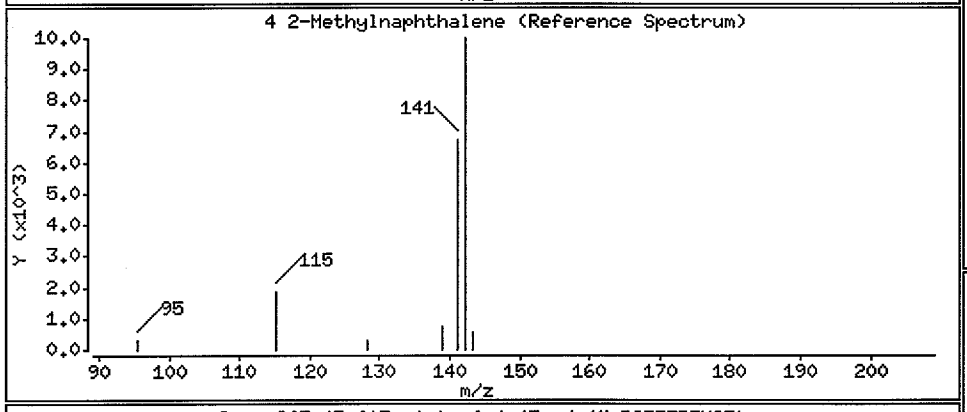
Column diameter: 0.25

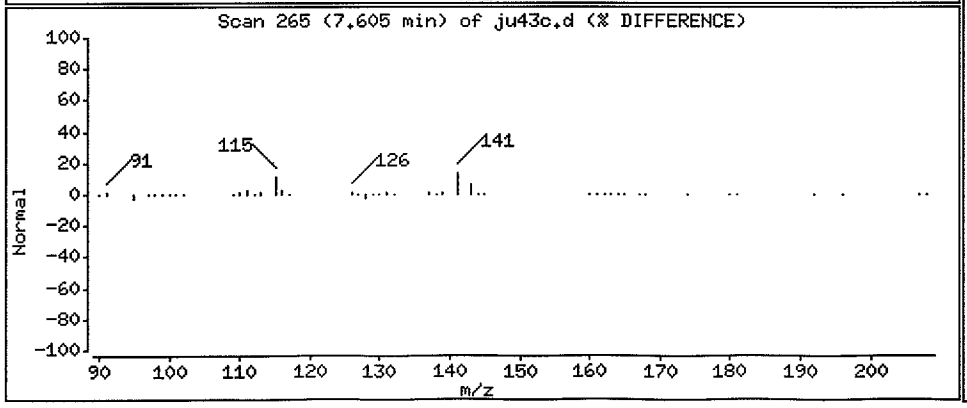
4 2-Methylnaphthalene

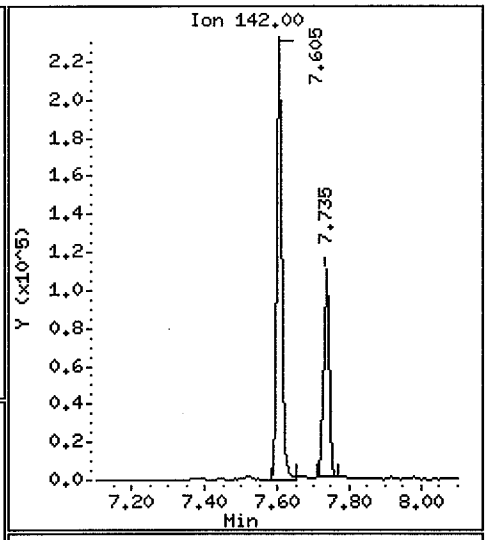
Concentration: 431.0 ug/kg

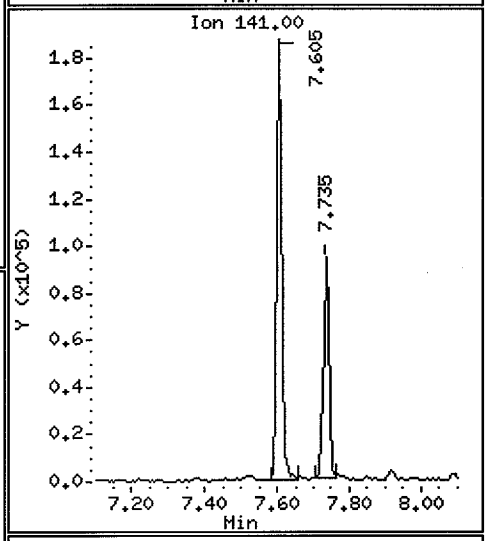


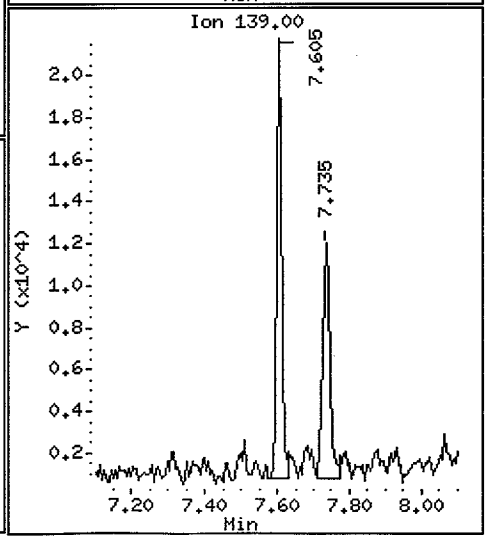












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

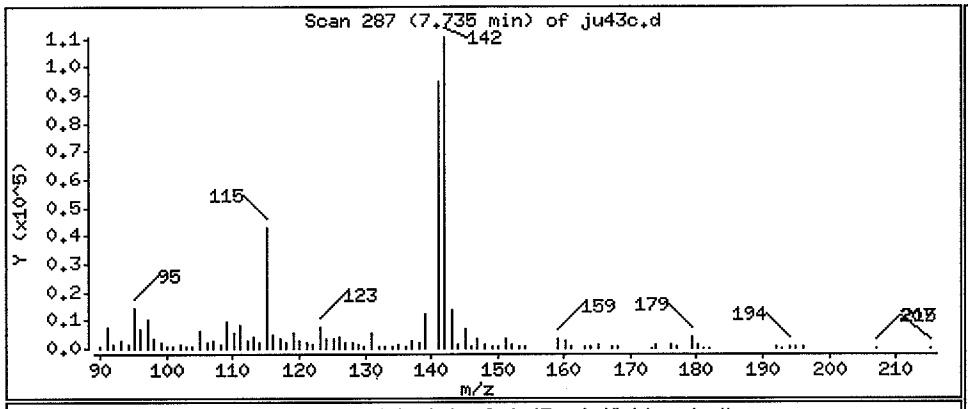
Operator: VTS

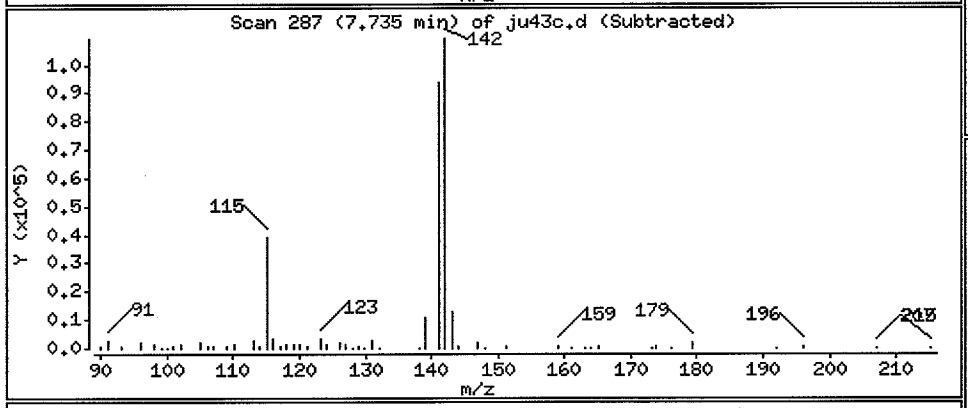
Column phase: ZB-5

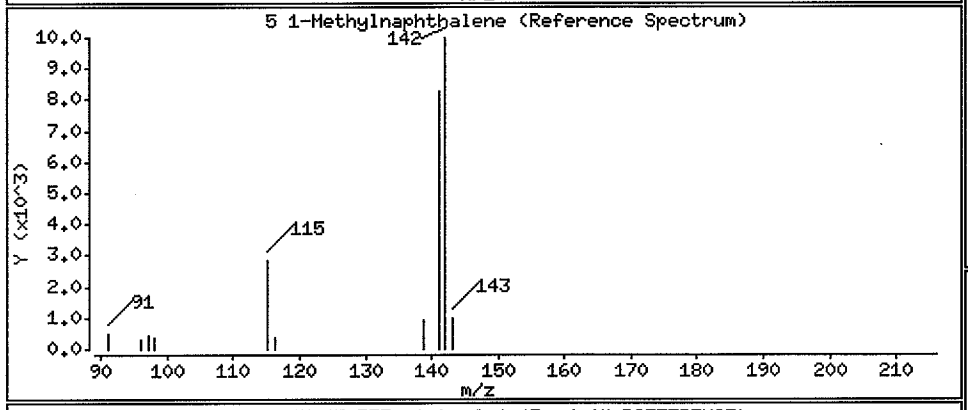
Column diameter: 0.25

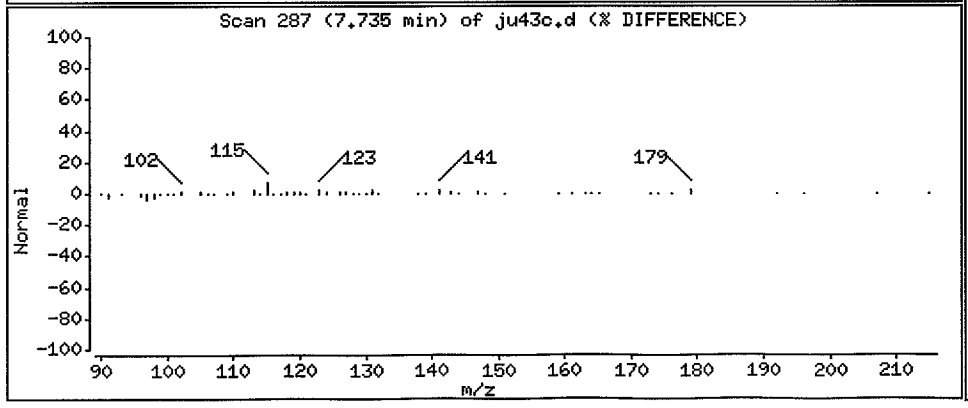
5 1-Methylnaphthalene

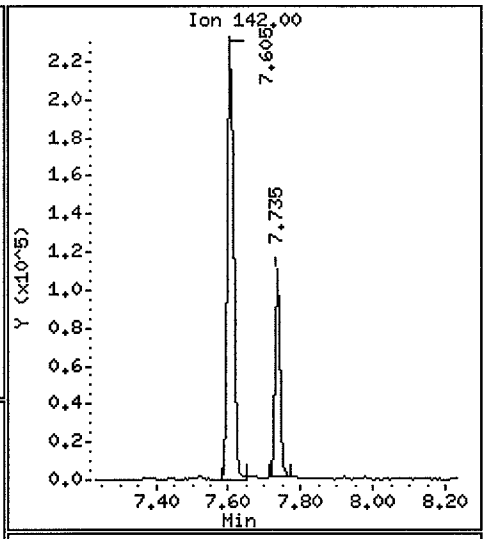
Concentration: 185.4 ug/kg

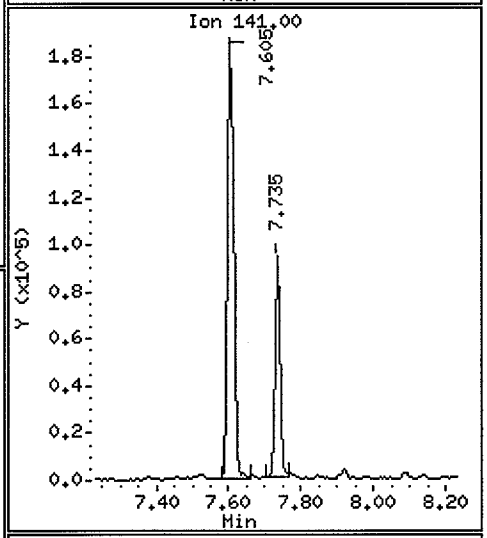


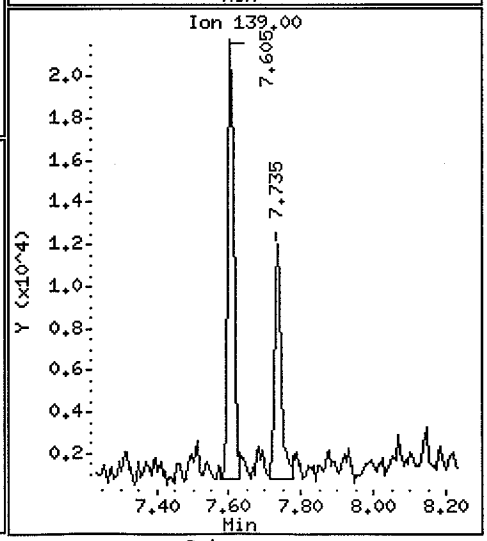












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

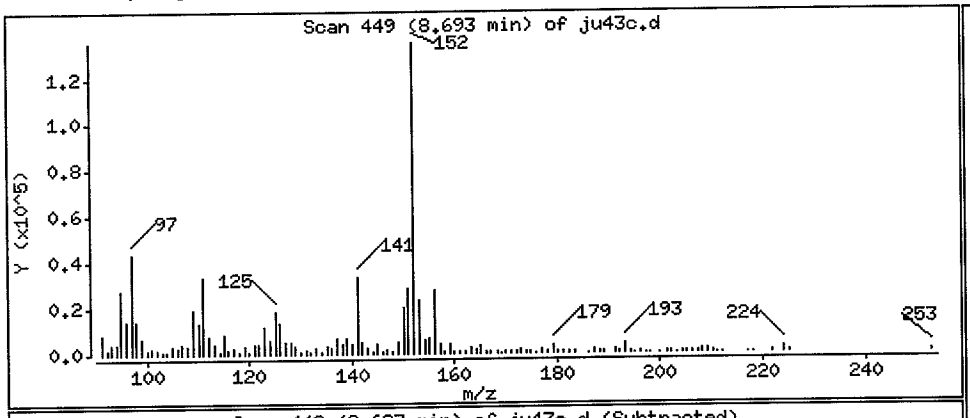
Operator: VTS

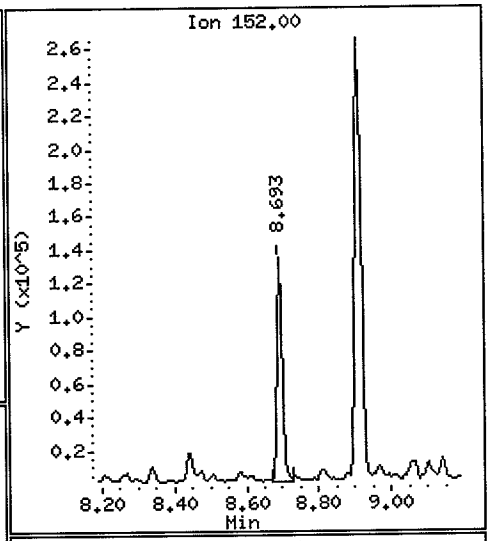
Column phase: ZB-5

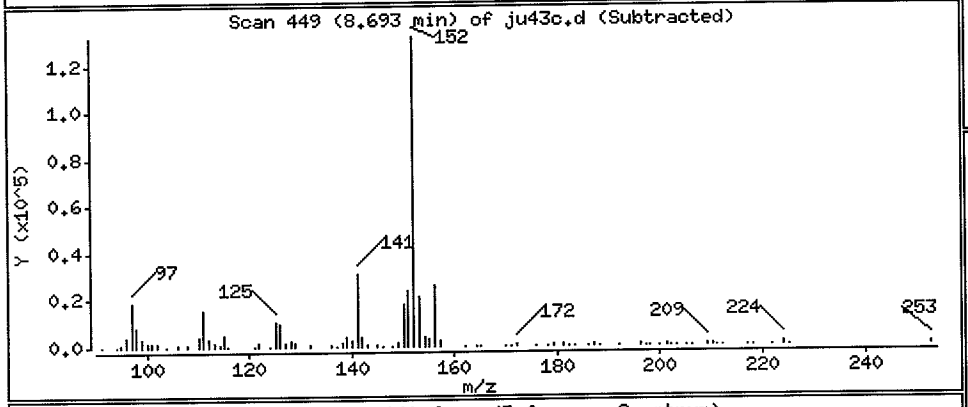
Column diameter: 0.25

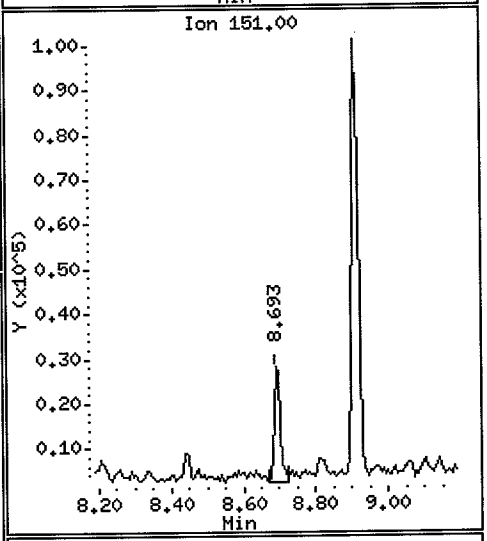
7 Acenaphthylene

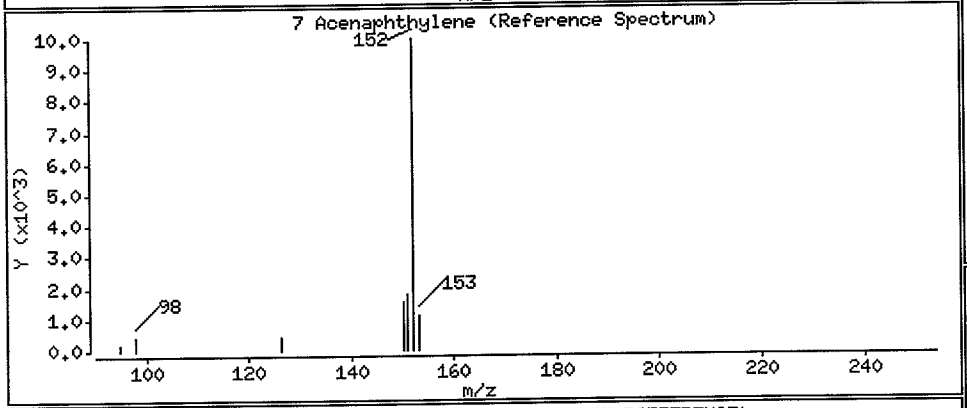
Concentration: 158.5 ug/kg

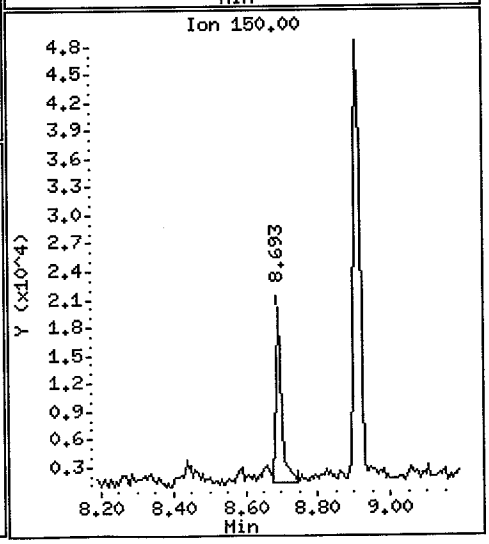


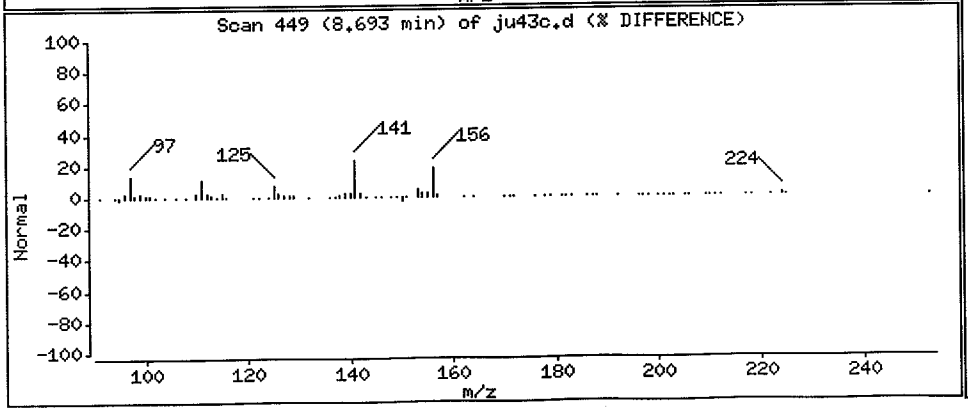












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

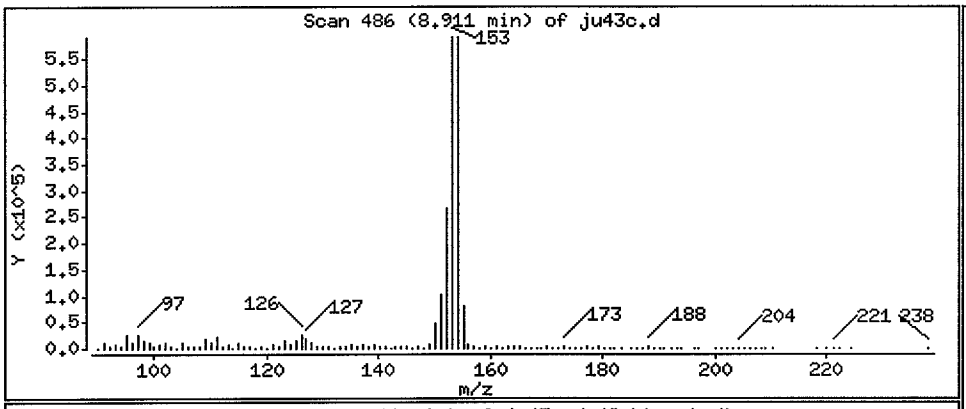
Operator: VTS

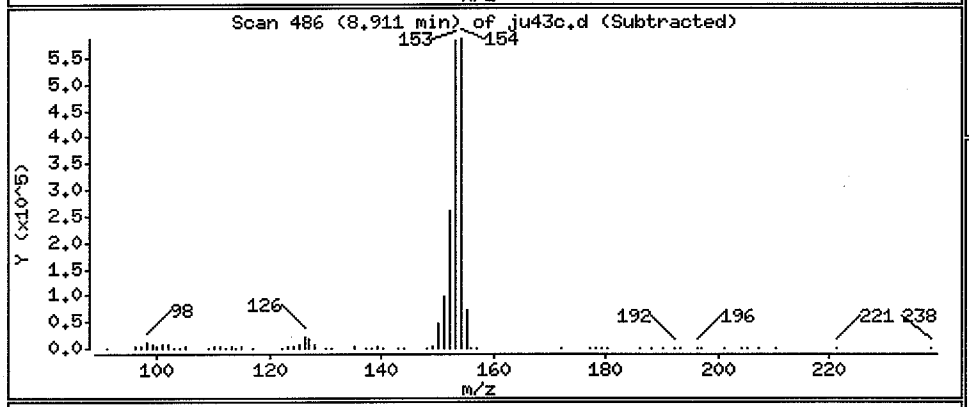
Column phase: ZB-5

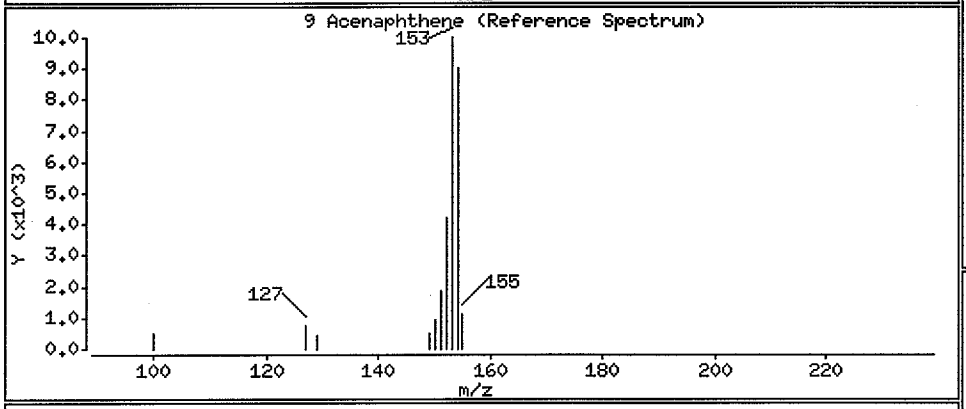
Column diameter: 0.25

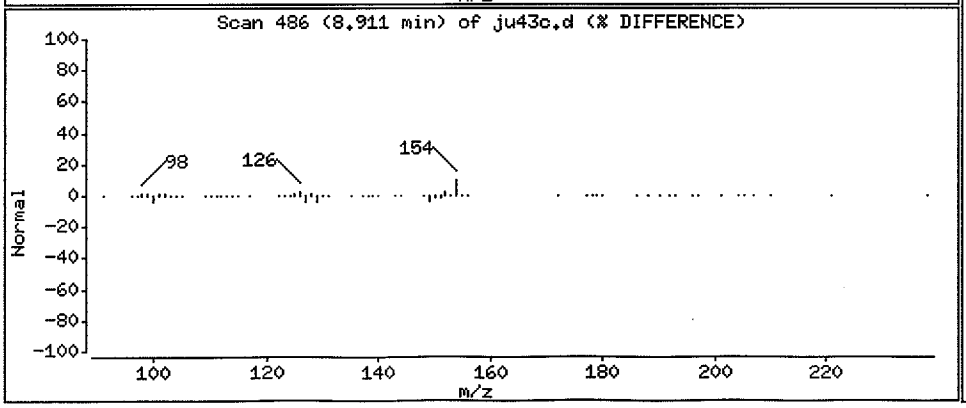
9 Acenaphthene

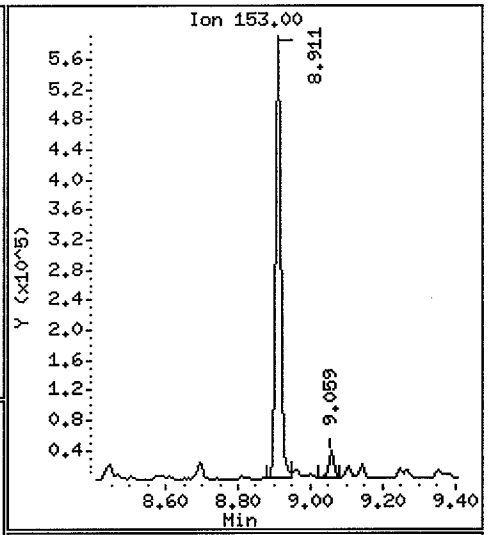
Concentration: 1129 ug/kg

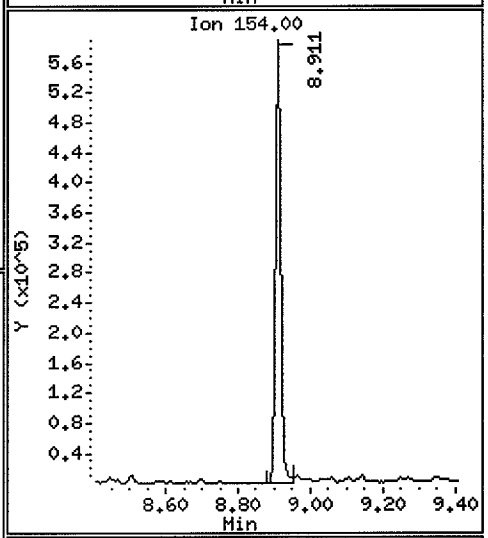


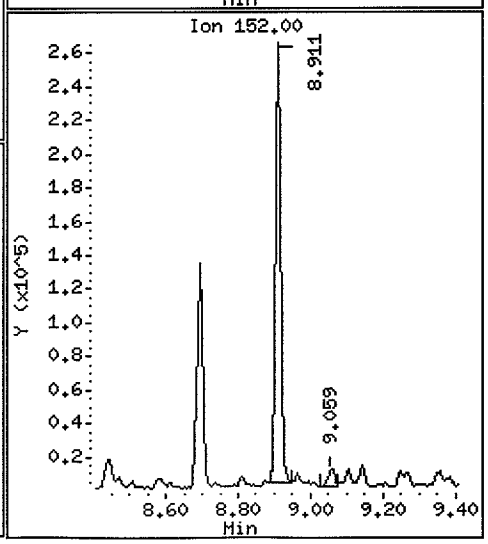












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

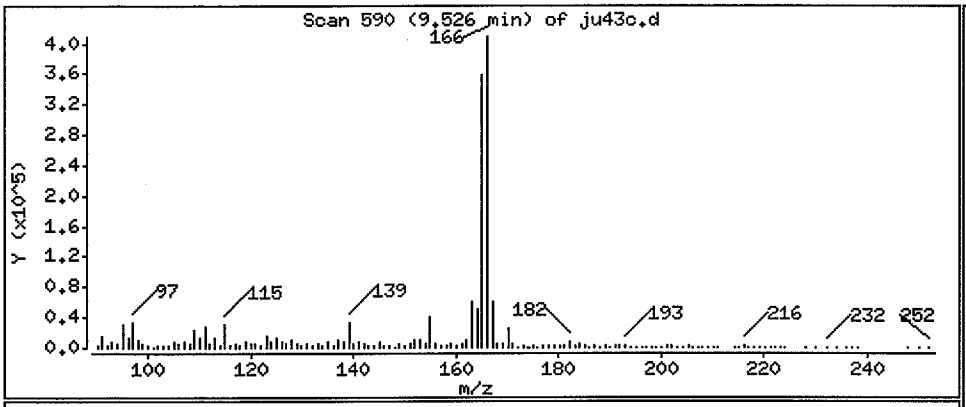
Operator: VTS

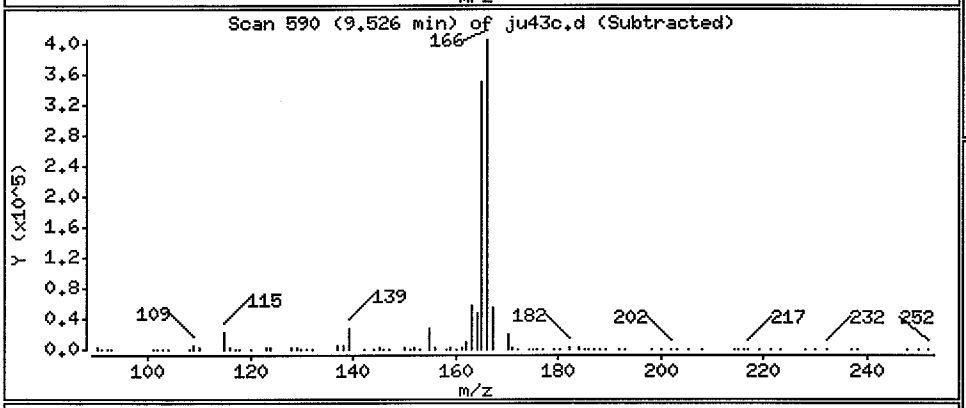
Column phase: ZB-5

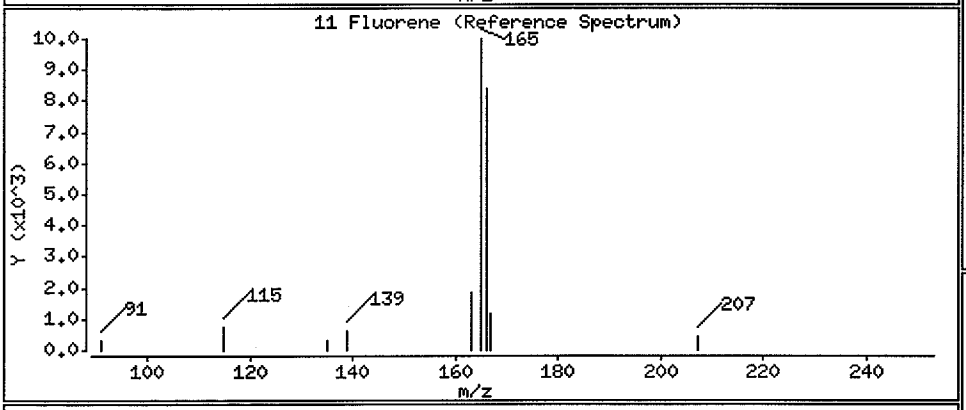
Column diameter: 0.25

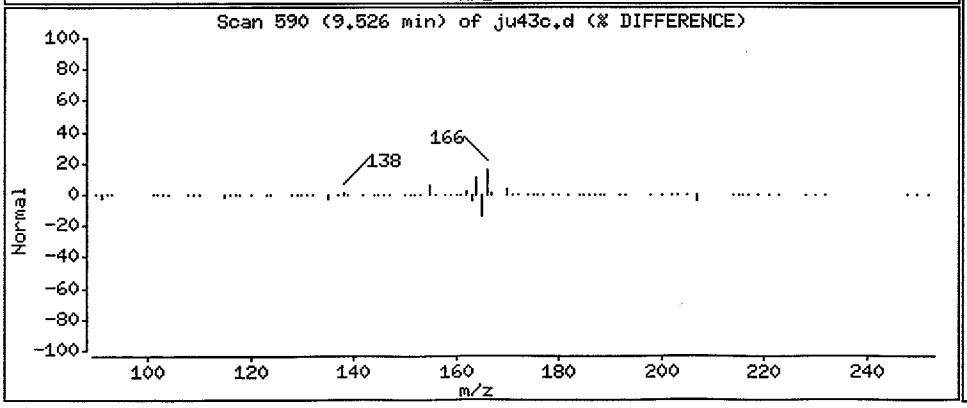
11 Fluorene

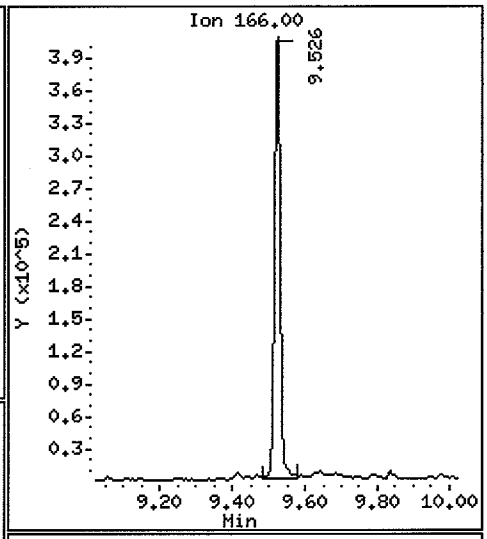
Concentration: 795.5 ug/kg

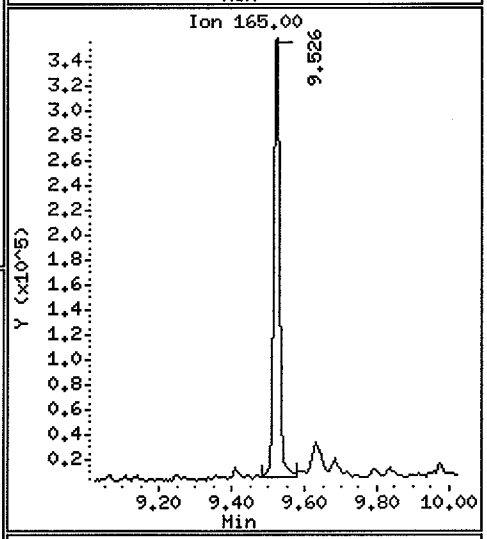


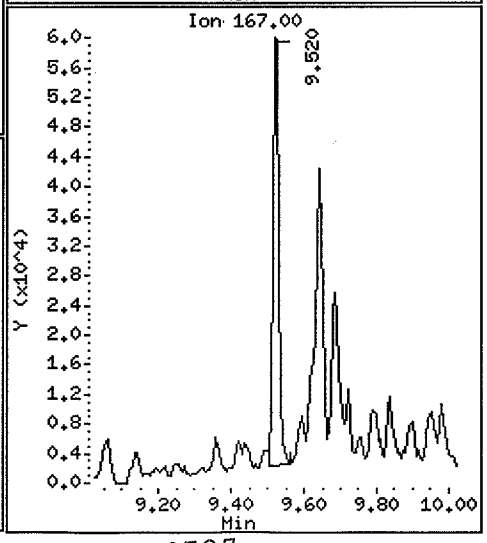












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

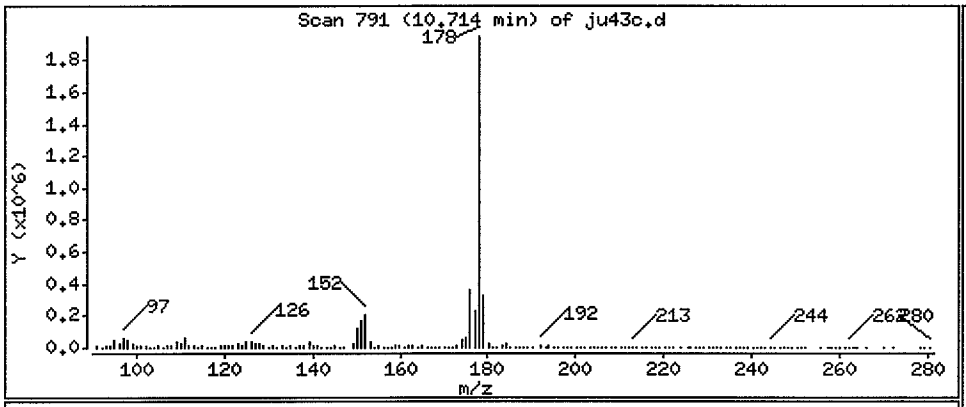
Operator: VTS

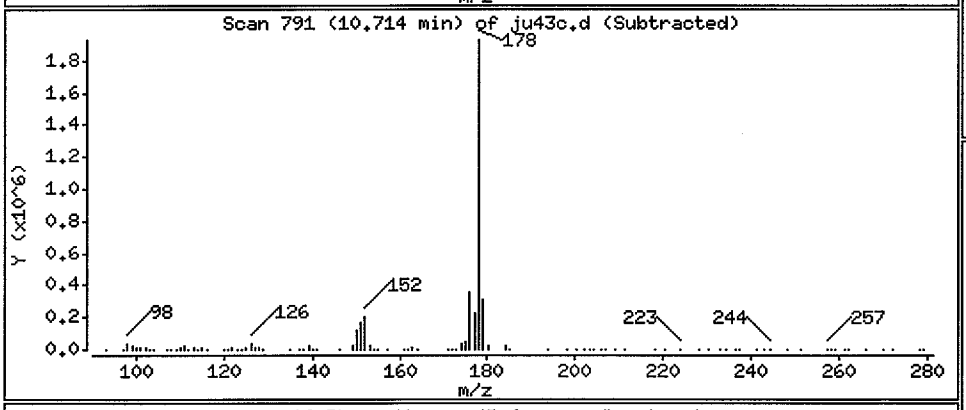
Column phase: ZB-5

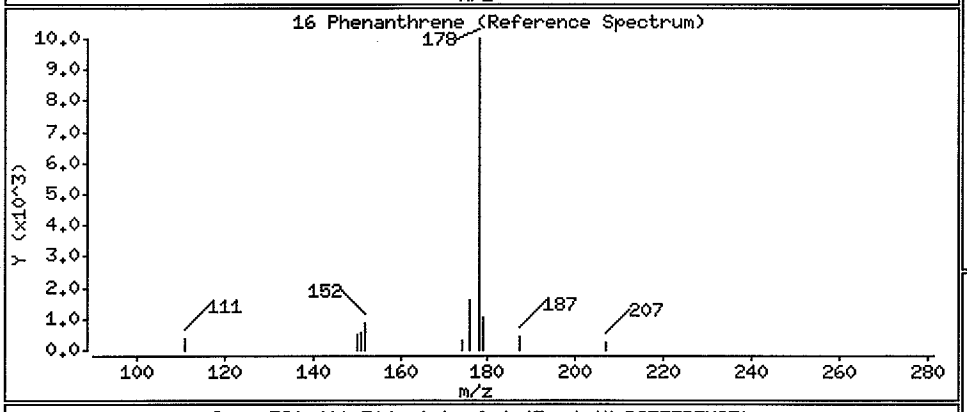
Column diameter: 0.25

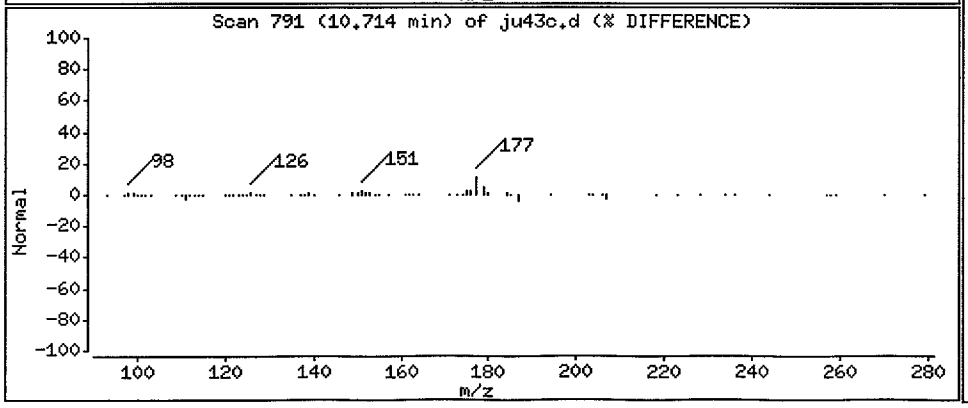
16 Phenanthrene

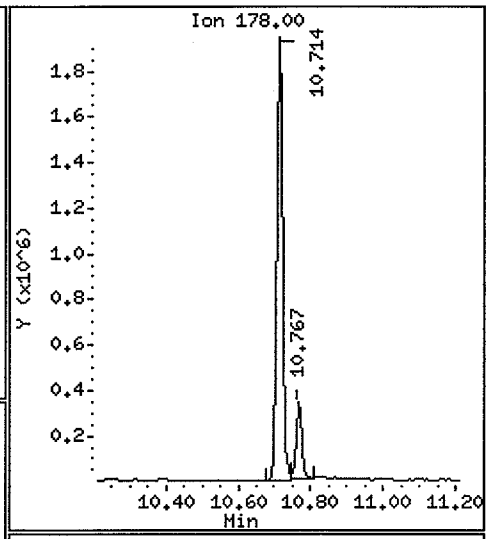
Concentration: 2961 ug/kg

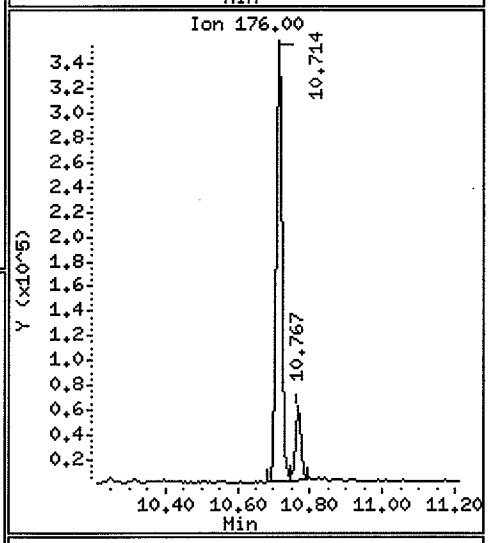


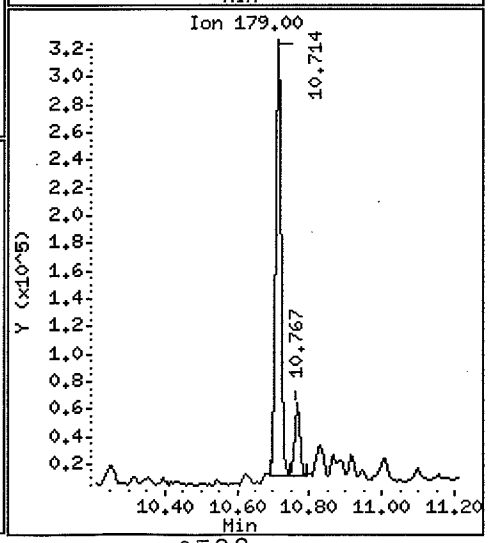












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

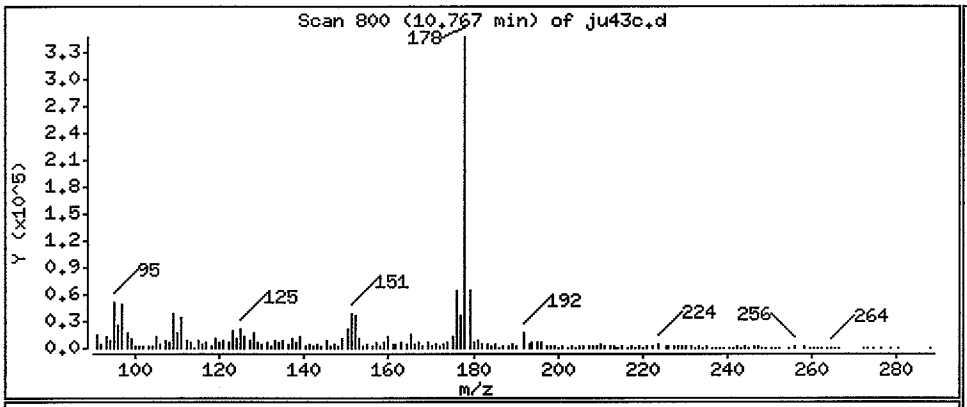
Operator: VTS

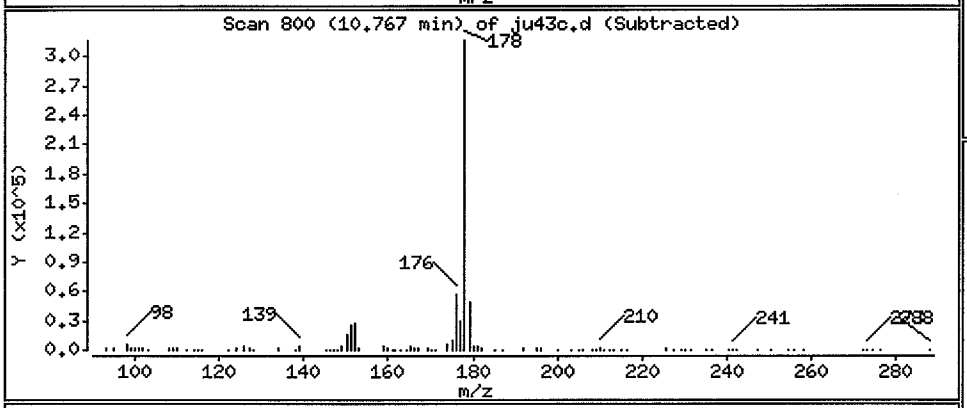
Column phase: ZB-5

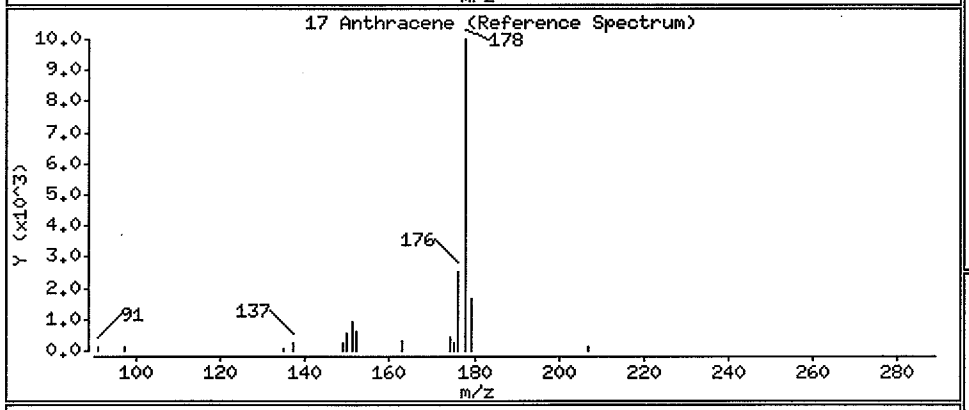
Column diameter: 0.25

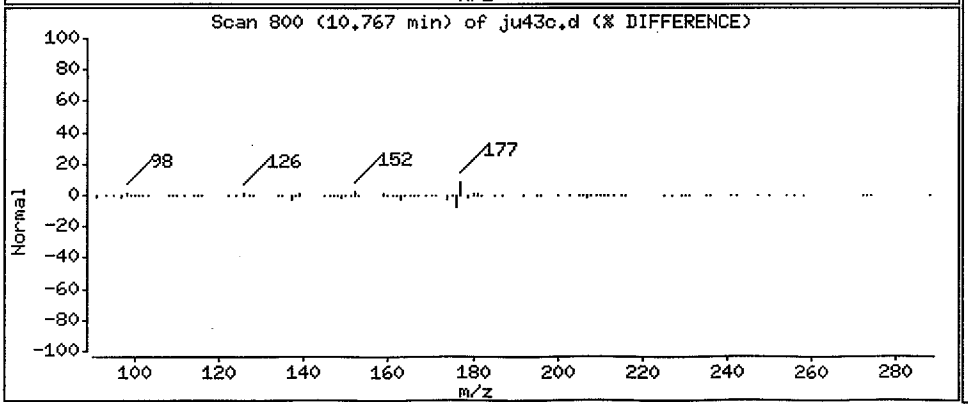
17 Anthracene

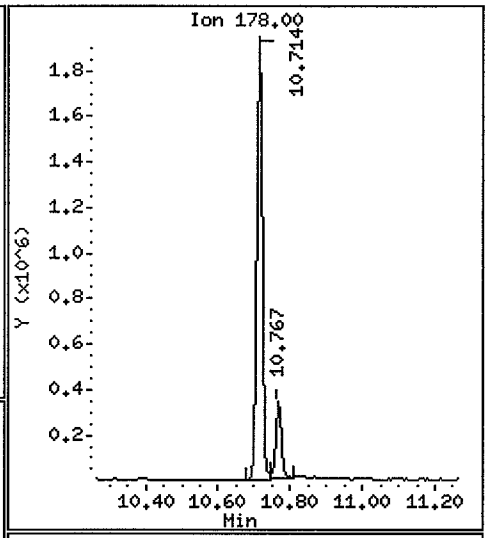
Concentration: 511.7 ug/kg

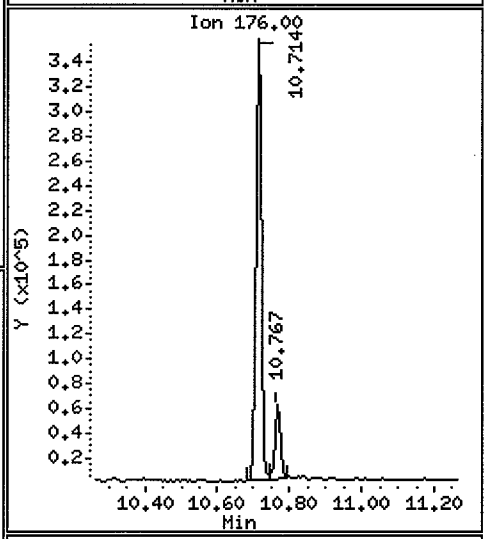


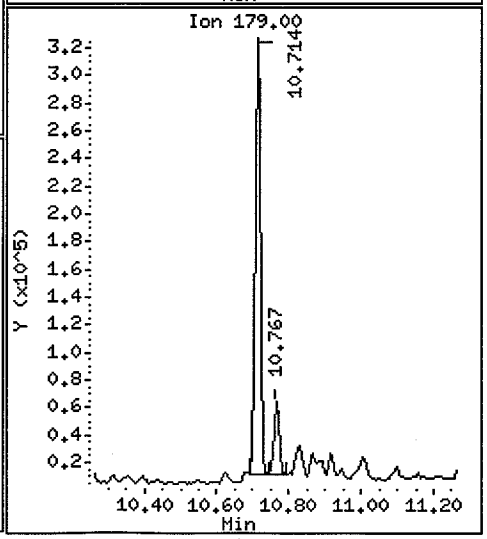












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

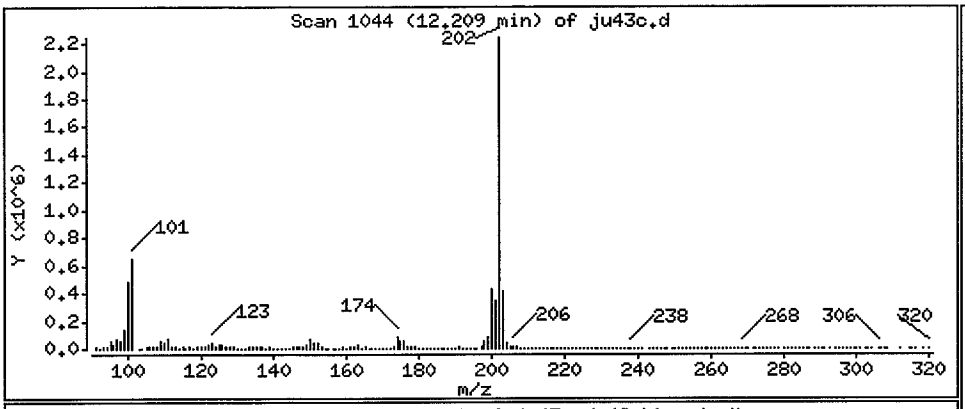
Operator: VTS

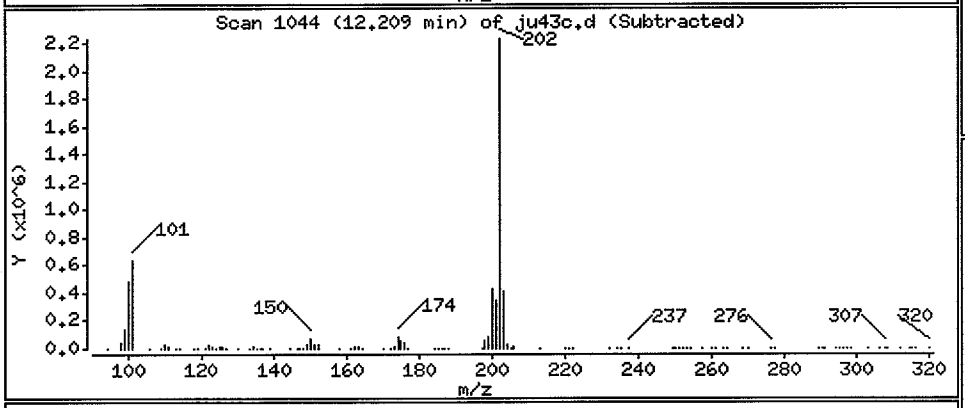
Column phase: ZB-5

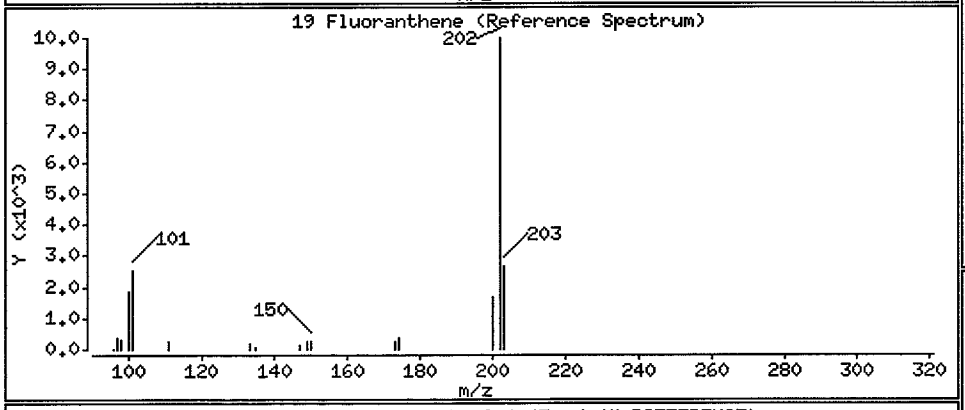
Column diameter: 0.25

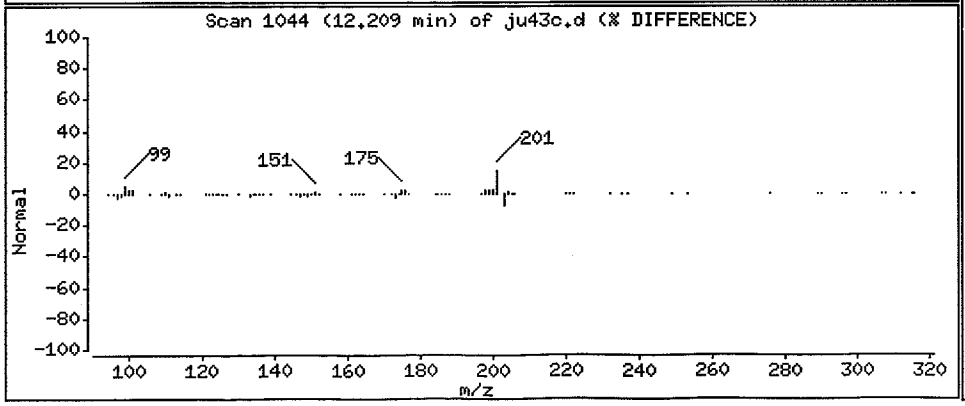
19 Fluoranthene

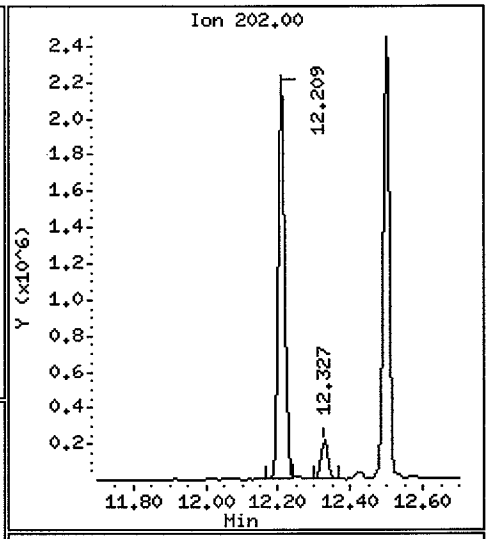
Concentration: 4256 ug/kg

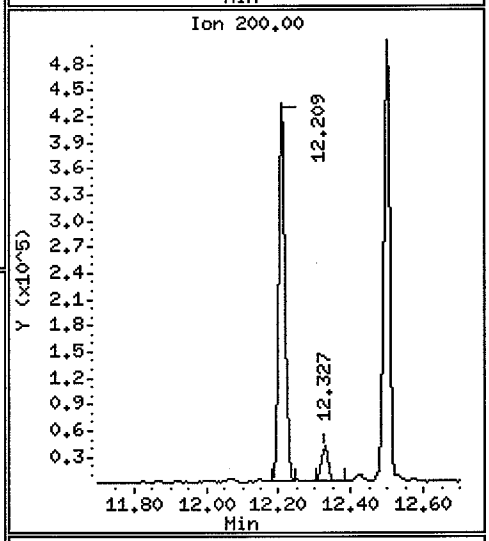


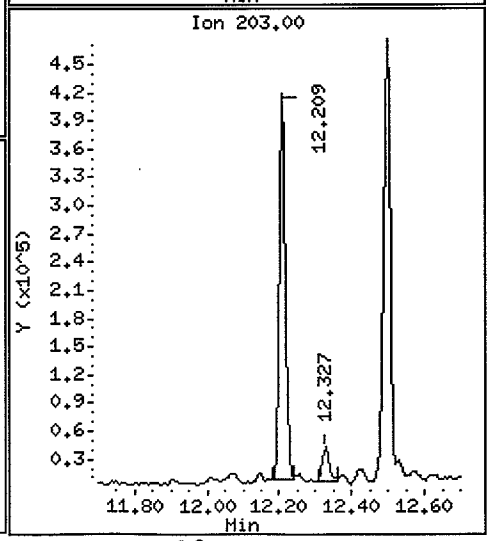












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

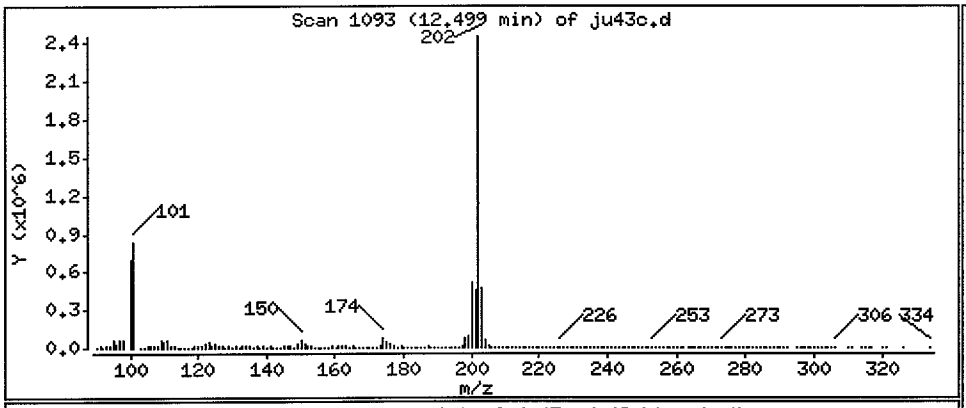
Operator: VTS

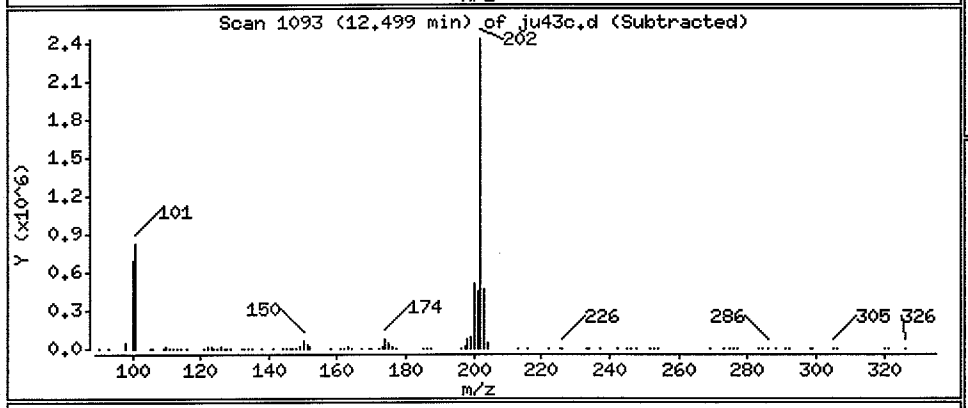
Column phase: ZB-5

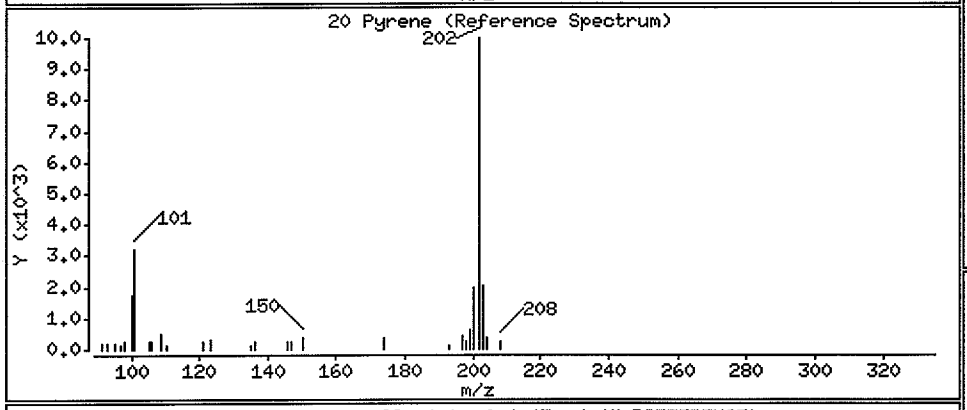
Column diameter: 0.25

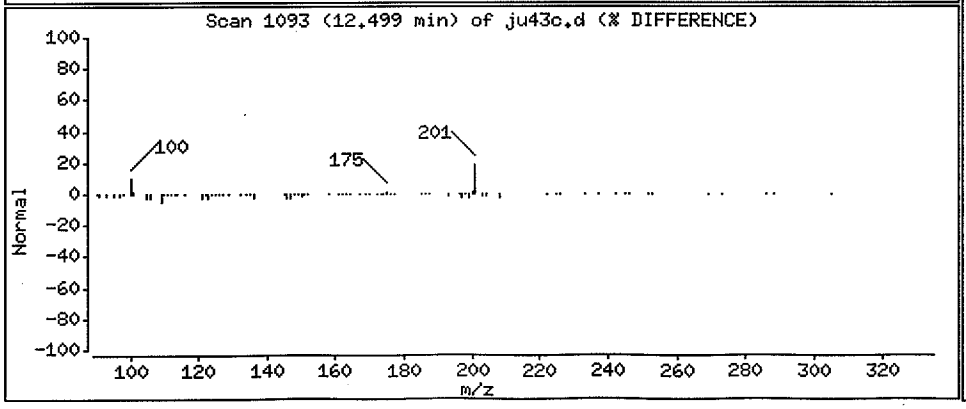
20 Pyrene

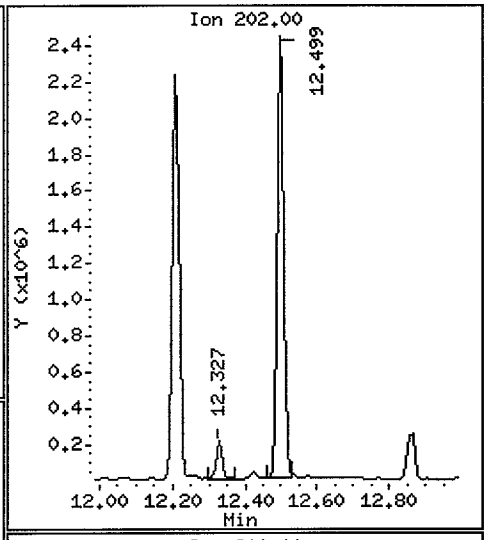
Concentration: 3823 ug/kg

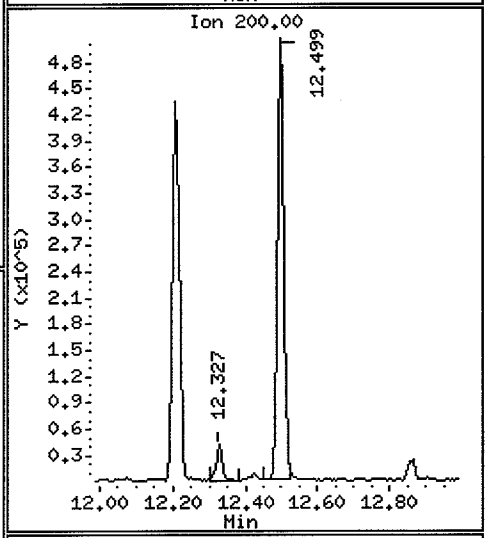


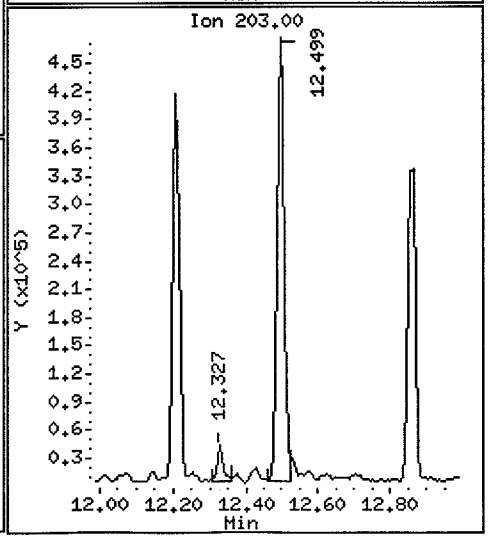












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

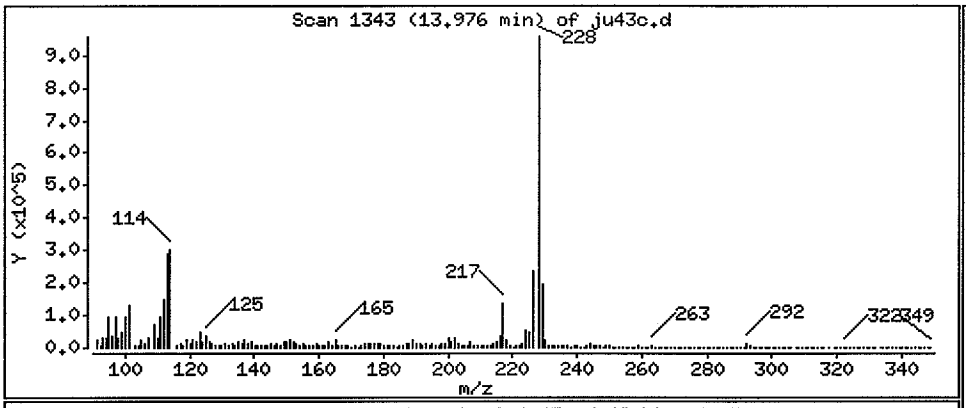
Operator: VTS

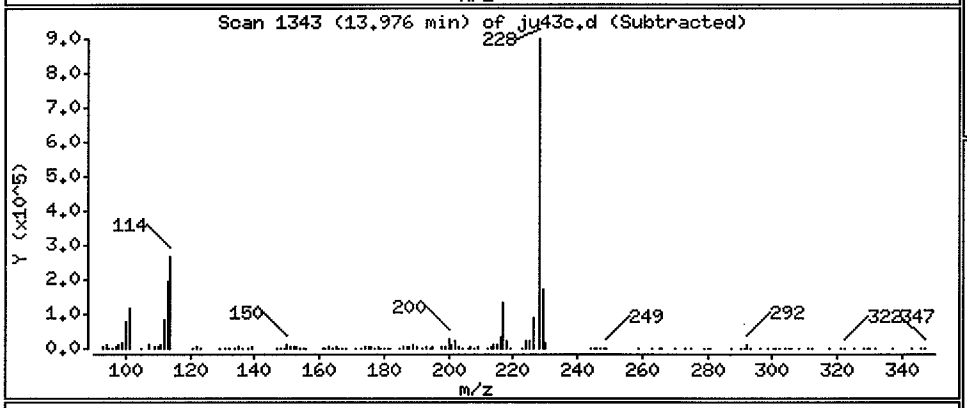
Column phase: ZB-5

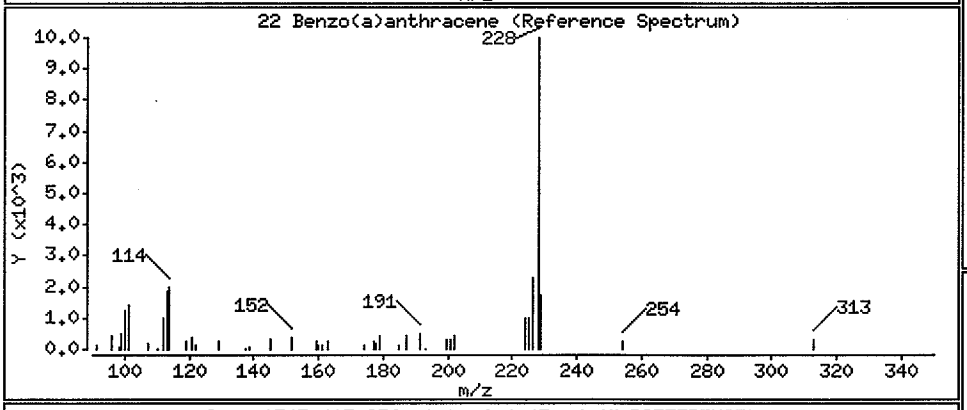
Column diameter: 0.25

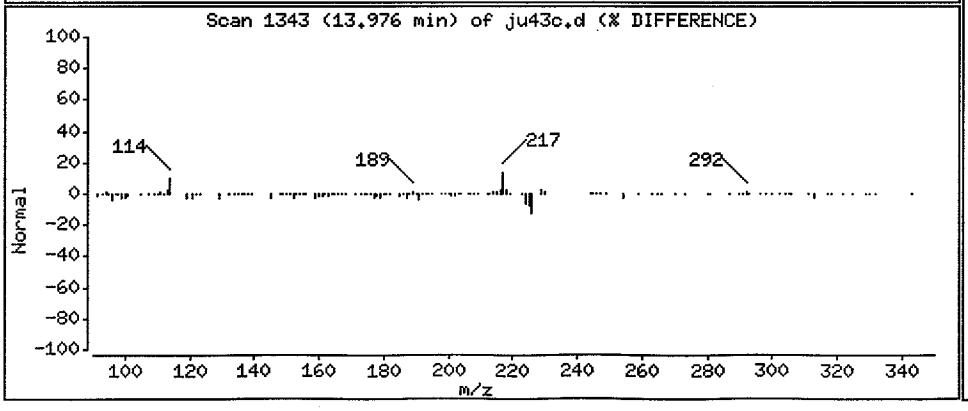
22 Benzo(a)anthracene

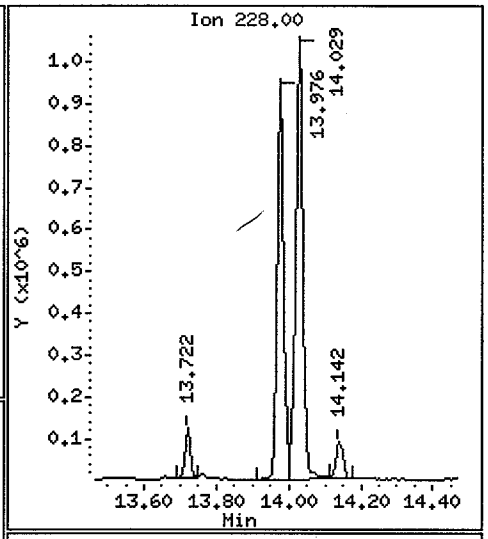
Concentration: 1717 ug/kg

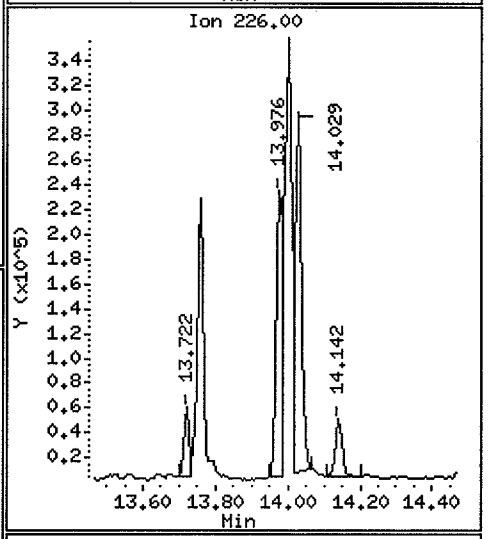


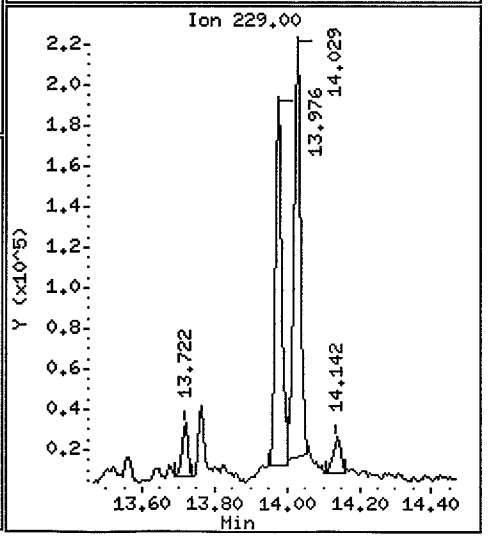












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

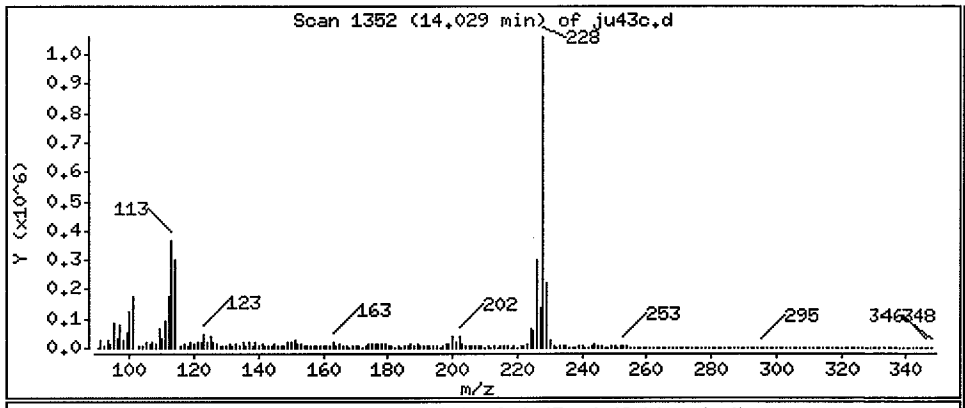
Operator: VTS

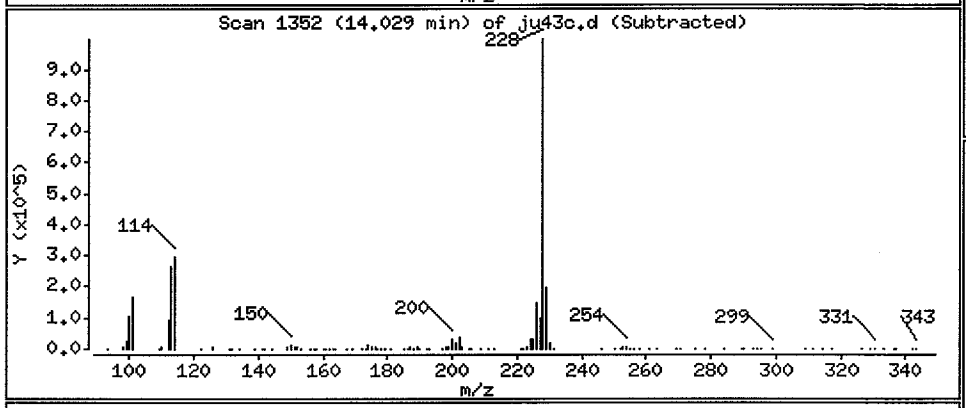
Column phase: ZB-5

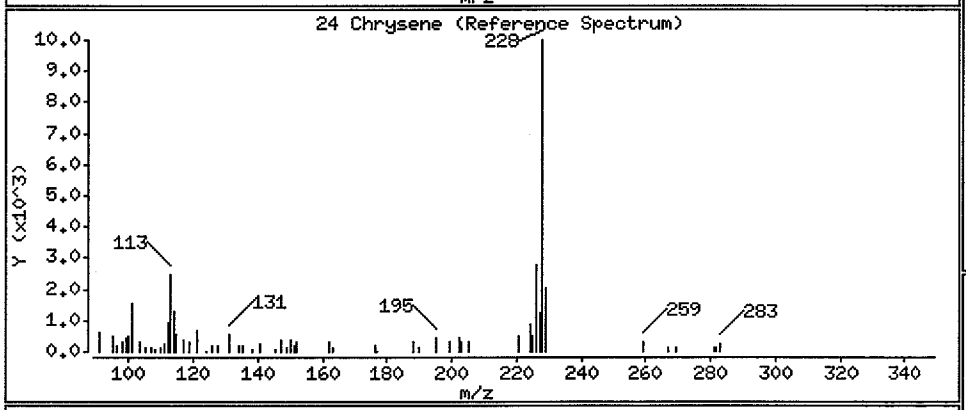
Column diameter: 0.25

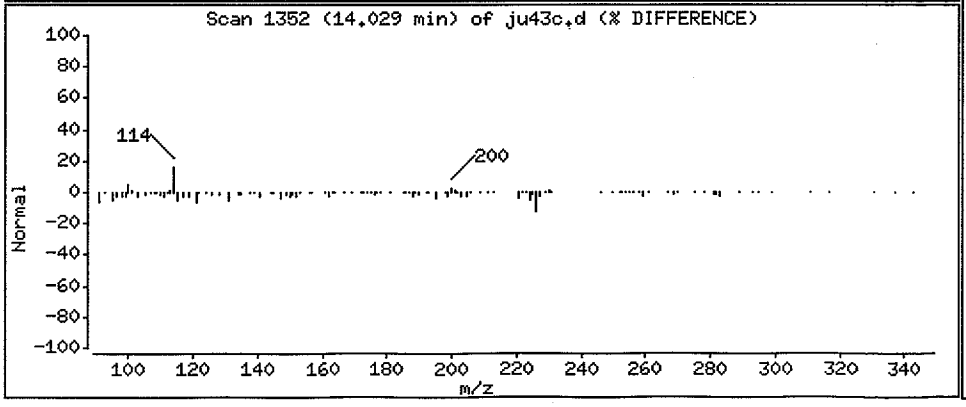
24 Chrysene

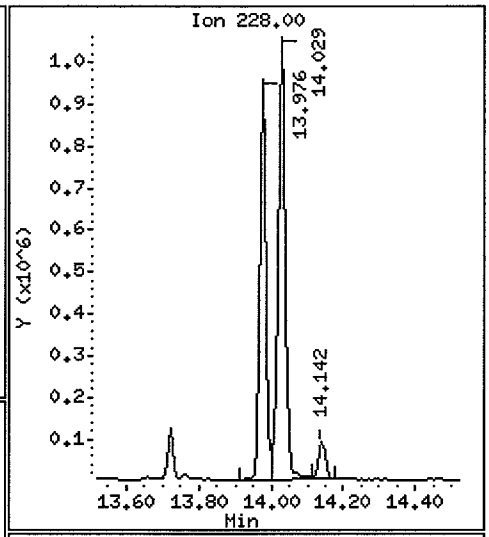
Concentration: 2263 ug/kg

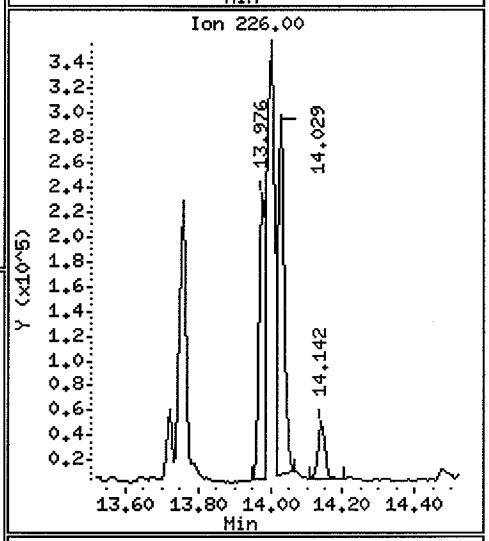


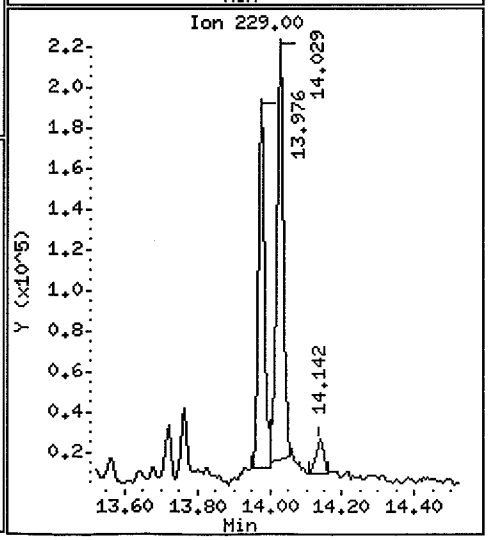












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

Operator: VTS

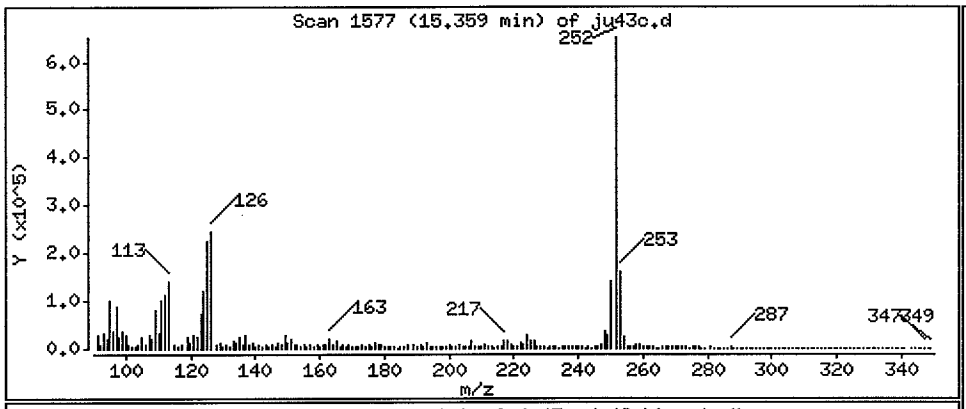
Column phase: ZB-5

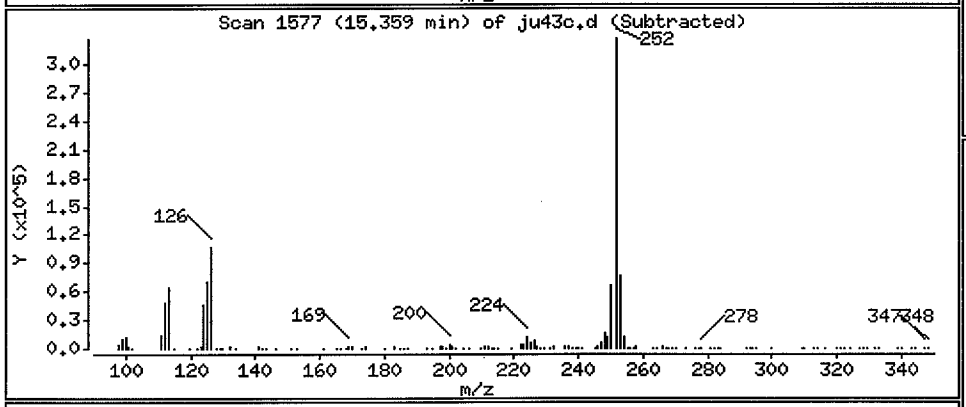
Column diameter: 0.25

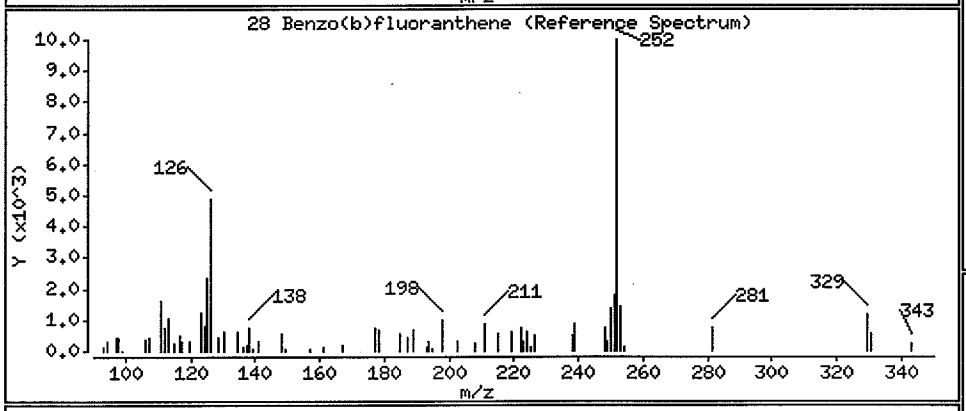
E

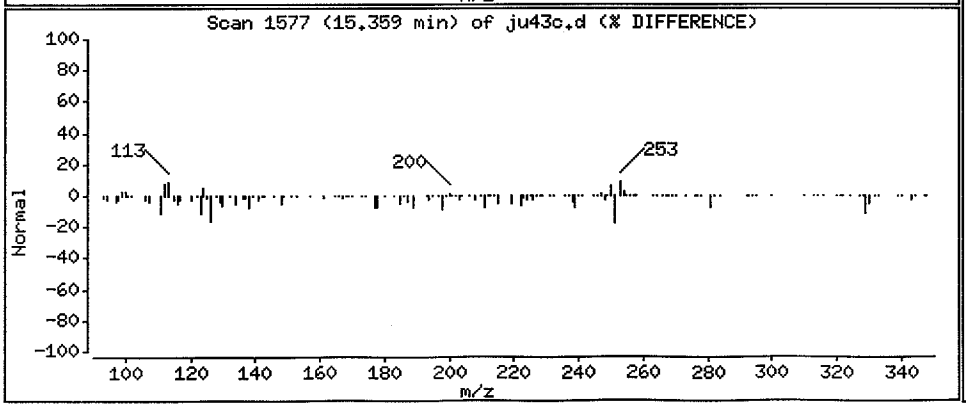
28 Benzo(b)fluoranthene

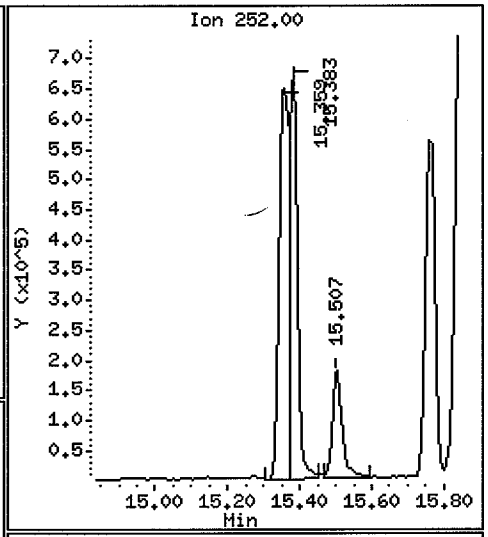
Concentration: 1738 ug/kg

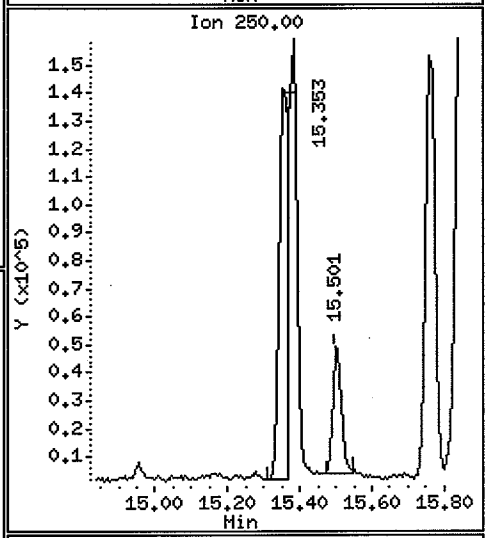


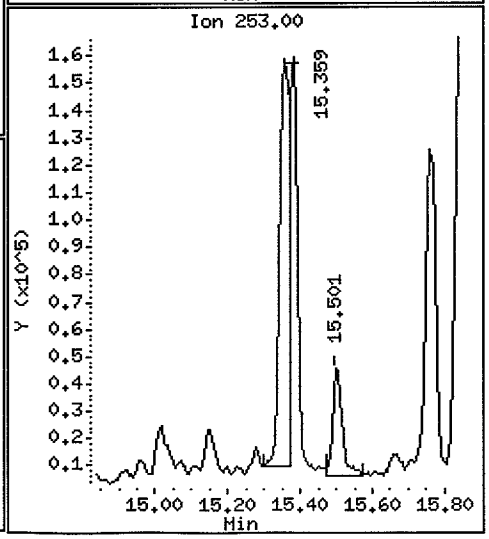












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

Operator: VTS

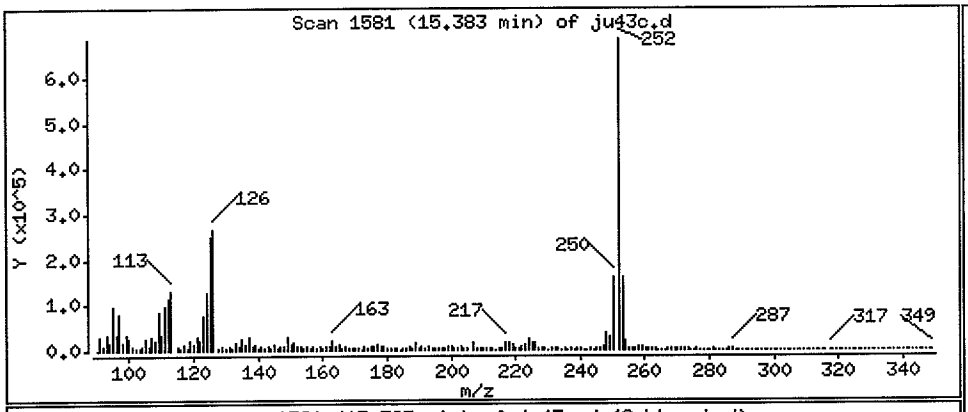
Column phase: ZB-5

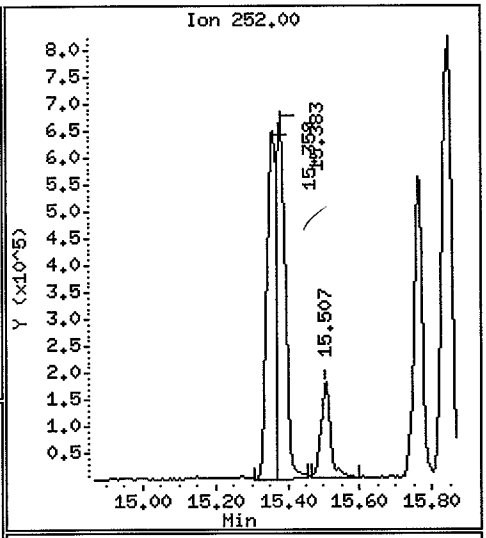
Column diameter: 0.25

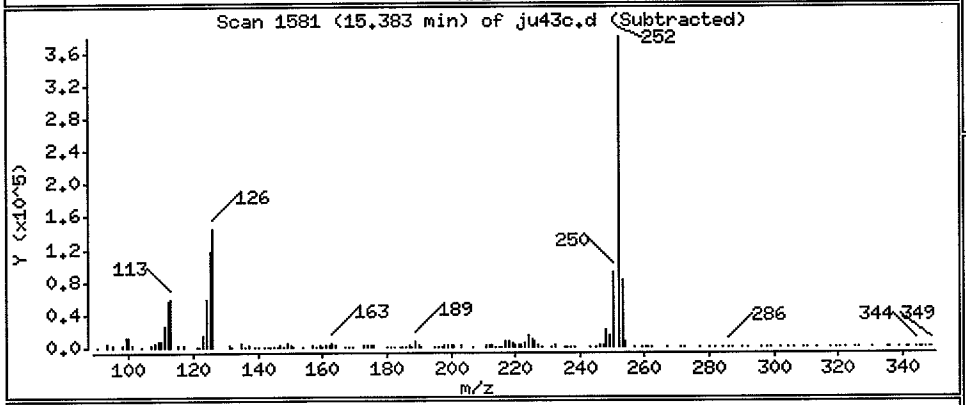
29 Benzo(k)fluoranthene

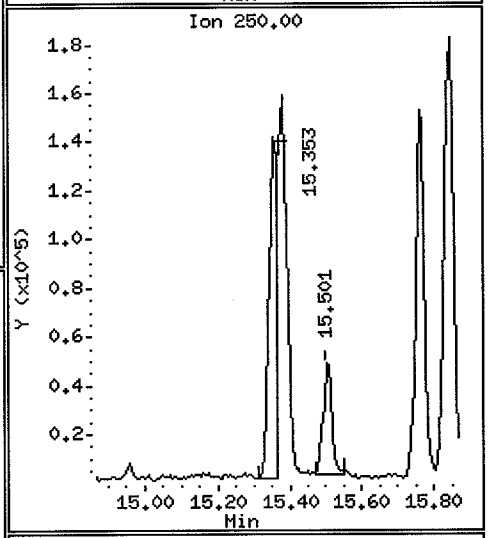
Concentration: 1505 ug/kg

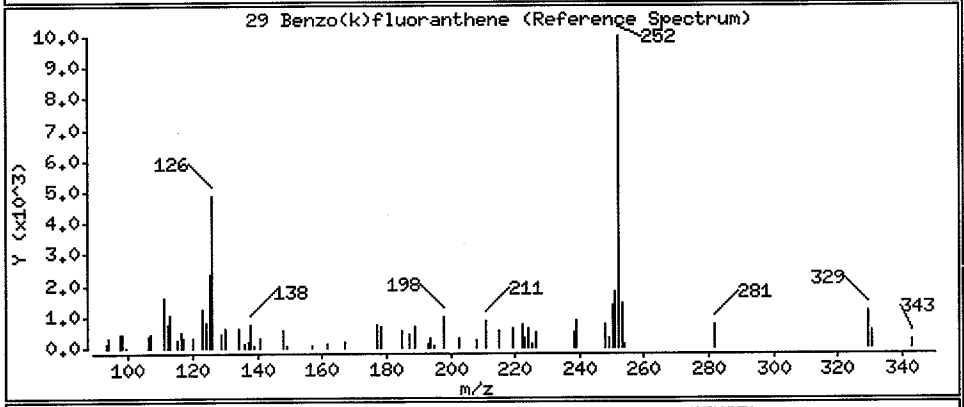
E

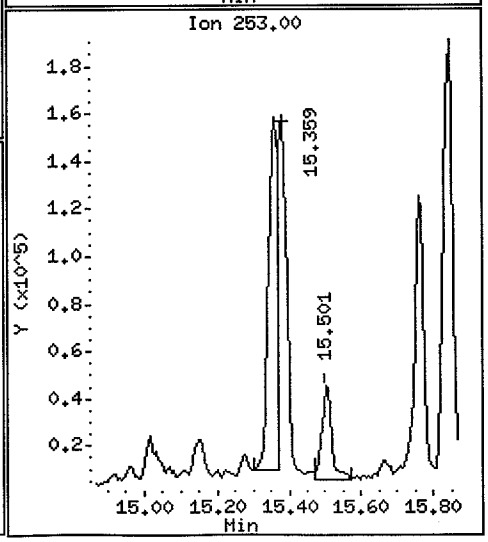


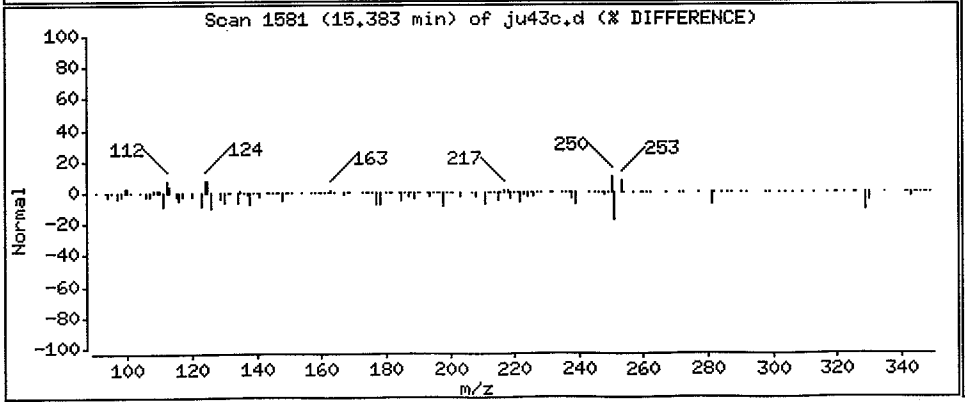












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

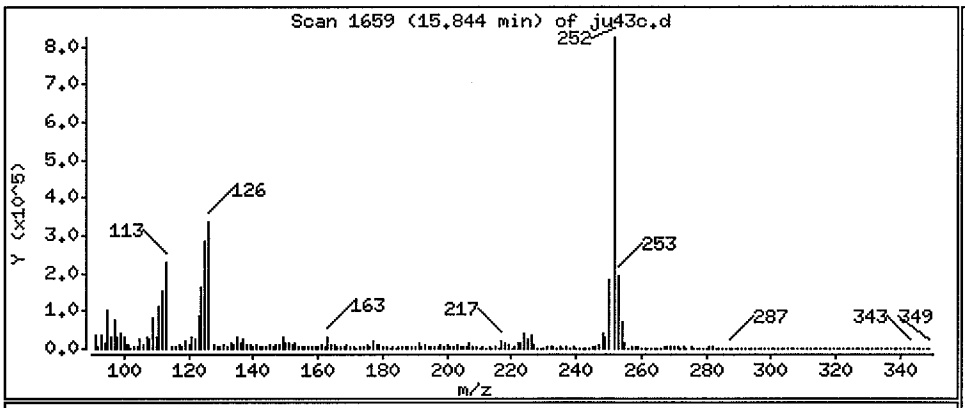
Operator: VTS

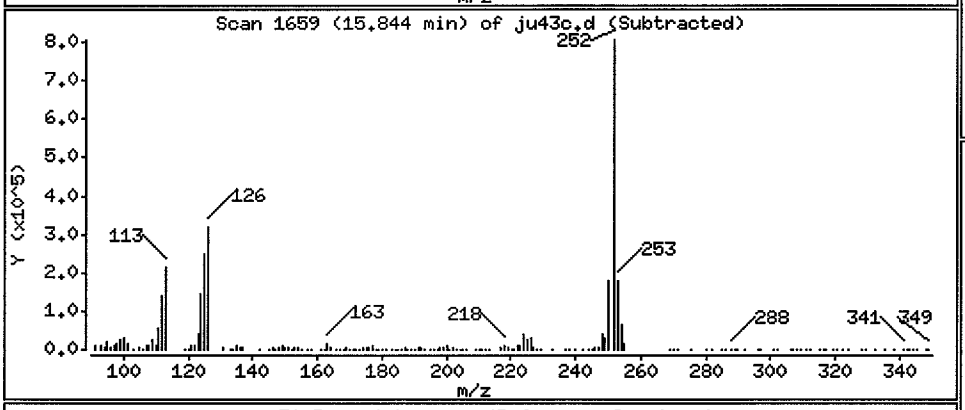
Column phase: ZB-5

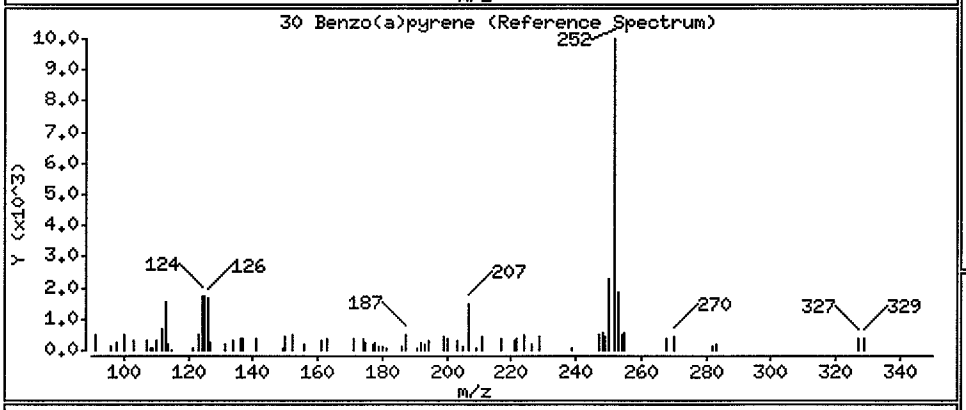
Column diameter: 0.25

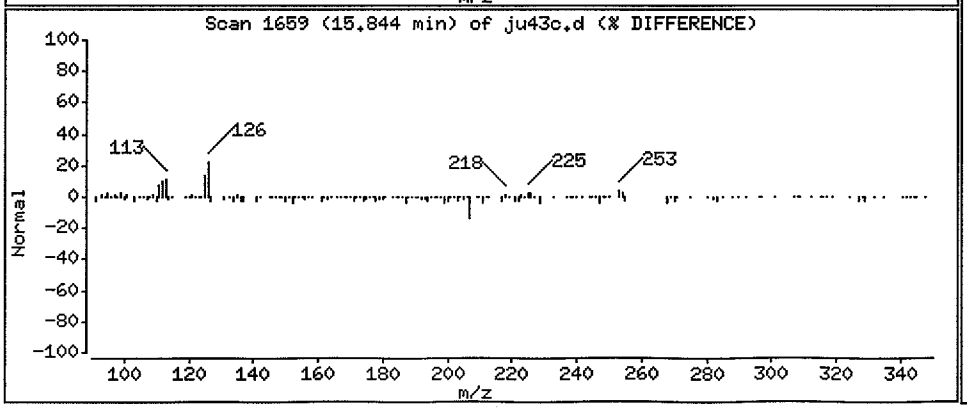
30 Benzo(a)pyrene

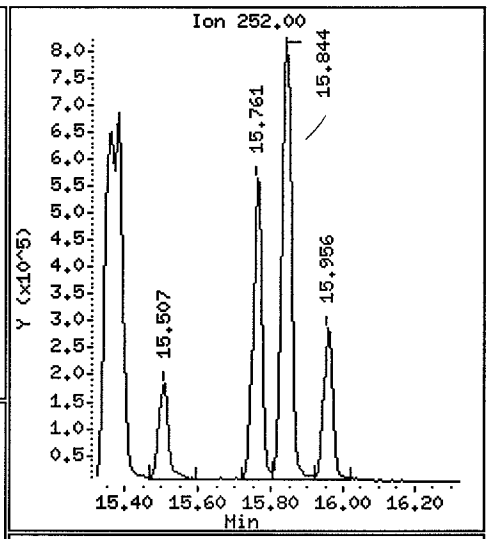
Concentration: 2263 ug/kg

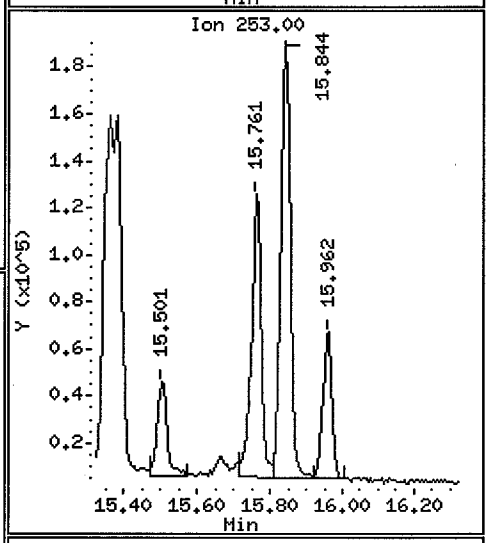


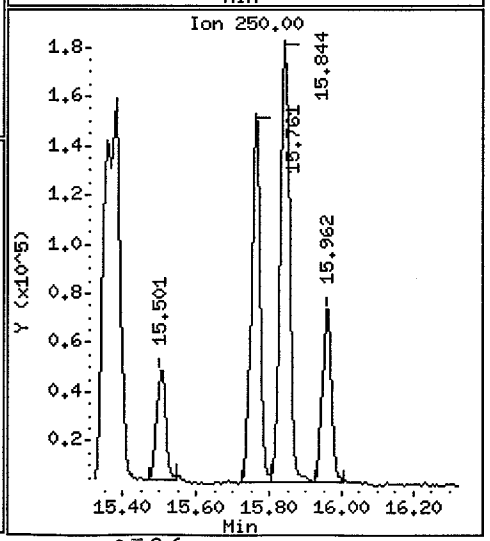












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

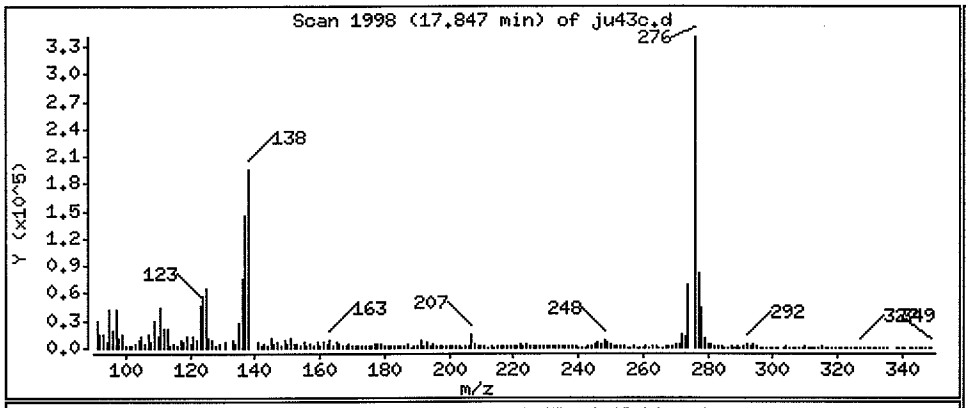
Operator: VTS

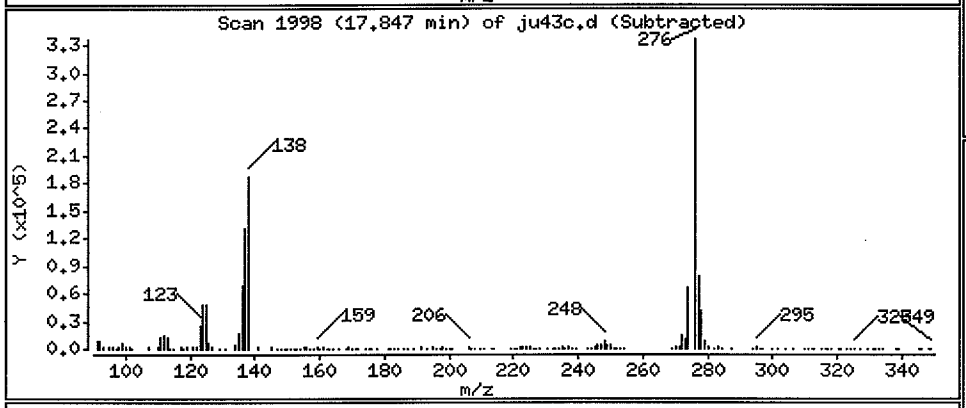
Column phase: ZB-5

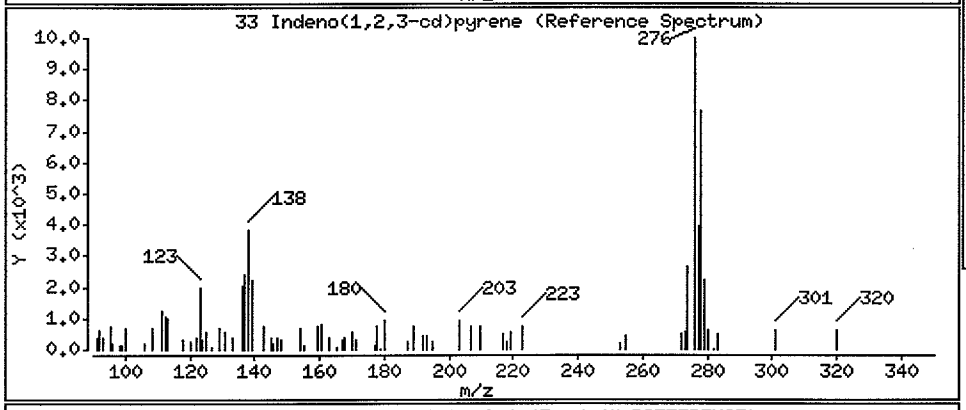
Column diameter: 0.25

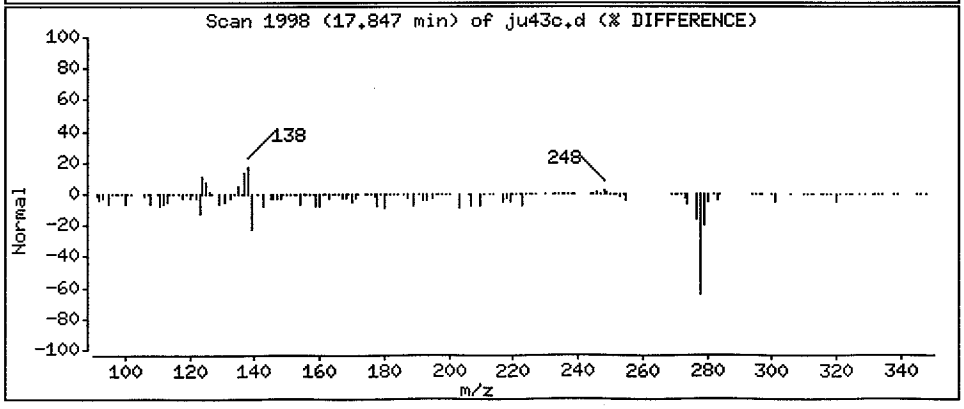
33 Indeno(1,2,3-cd)pyrene

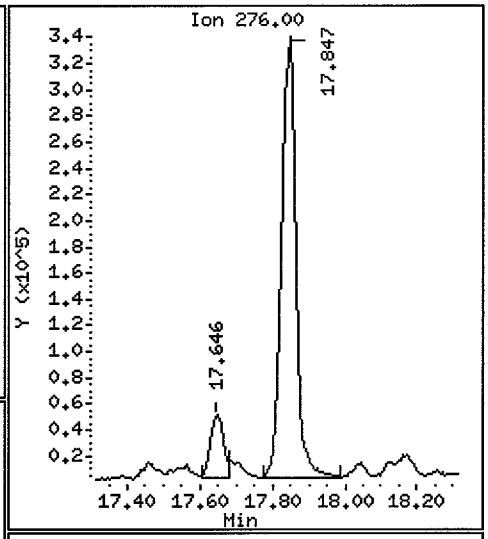
Concentration: 1341 ug/kg

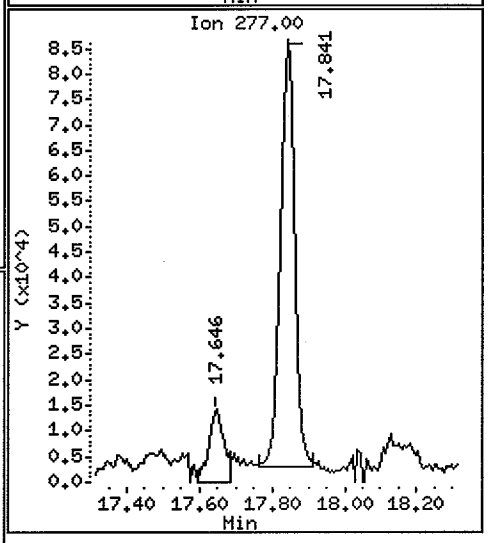












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

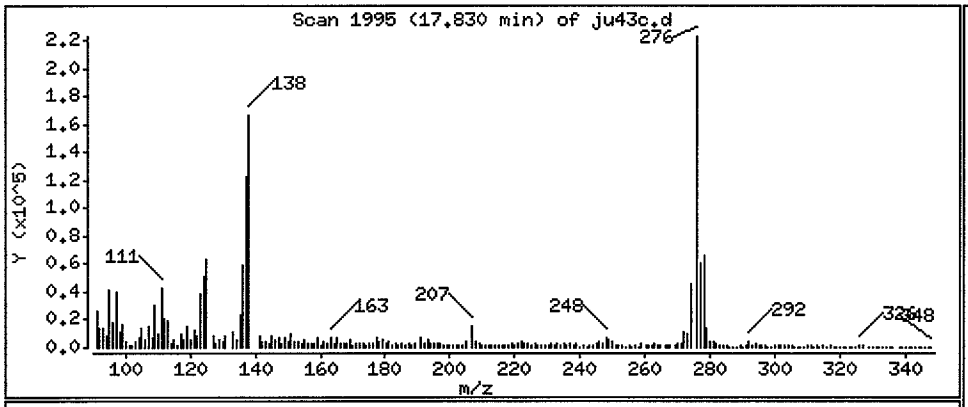
Operator: VTS

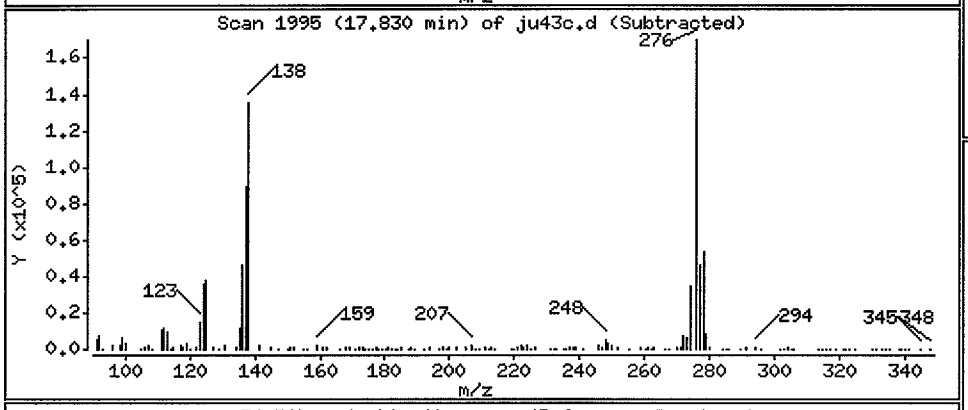
Column phase: ZB-5

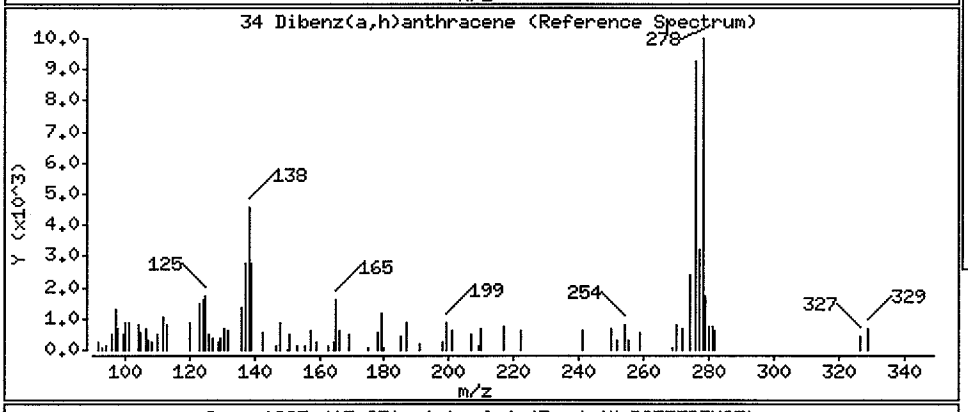
Column diameter: 0.25

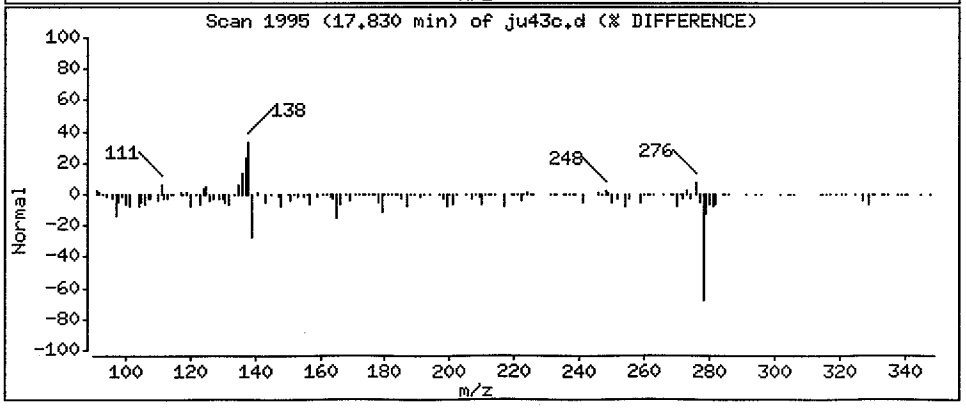
34 Dibenz(a,h)anthracene

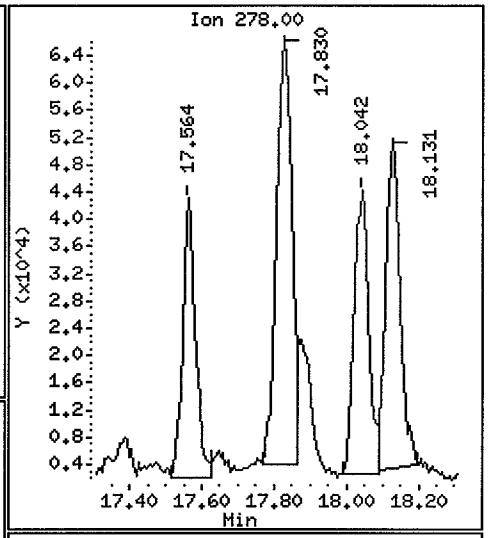
Concentration: 333.7 ug/kg

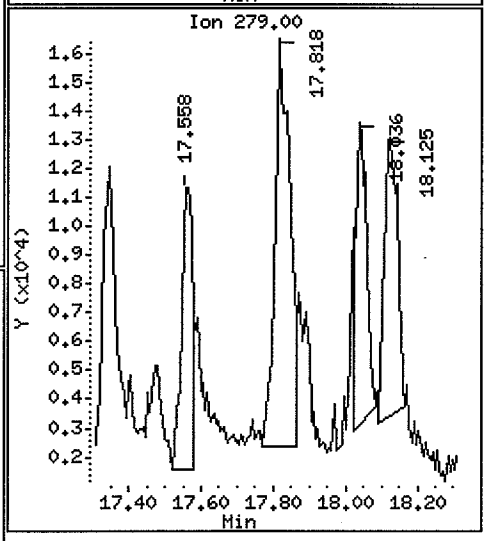












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

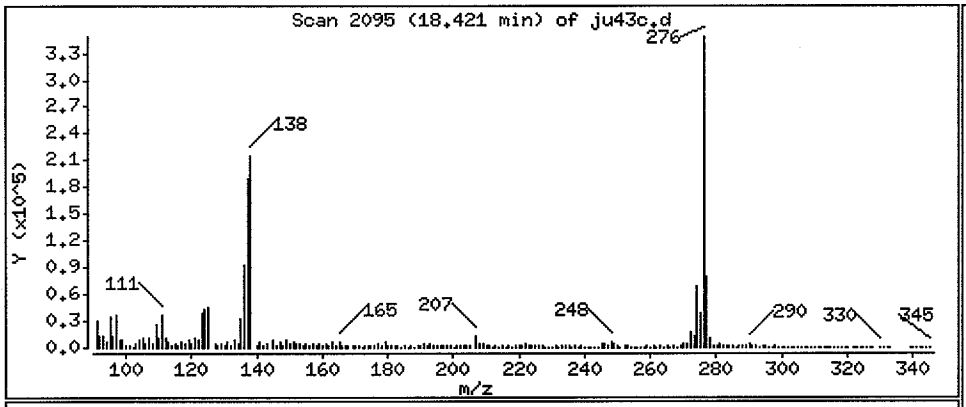
Operator: VTS

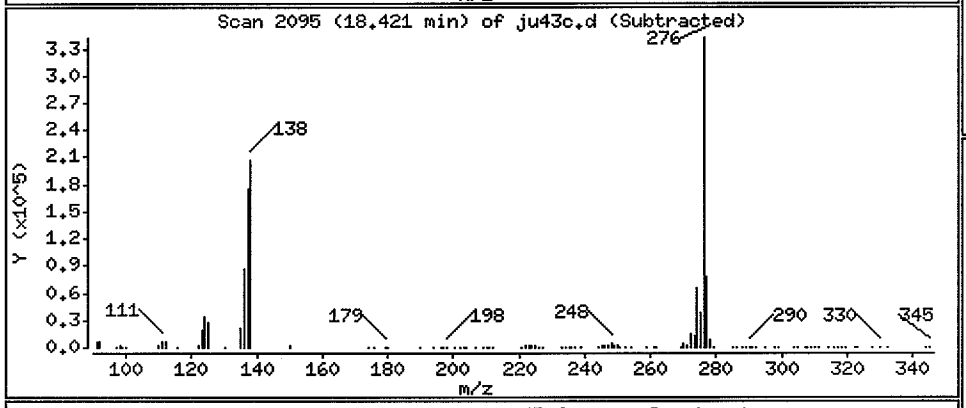
Column phase: ZB-5

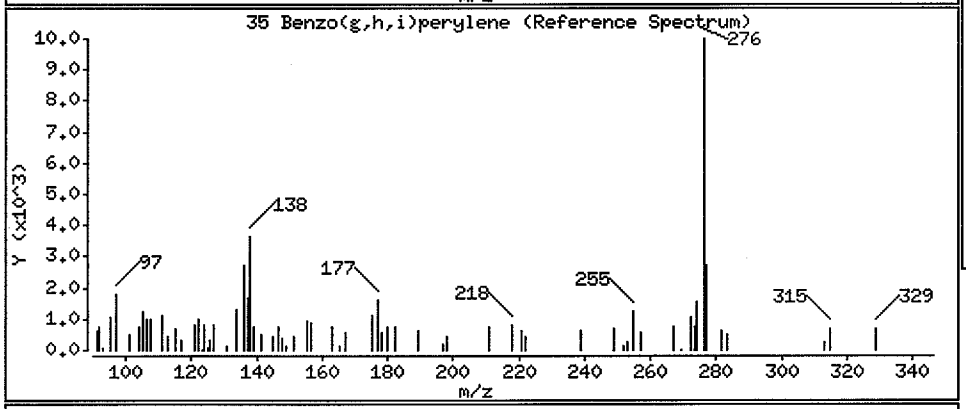
Column diameter: 0.25

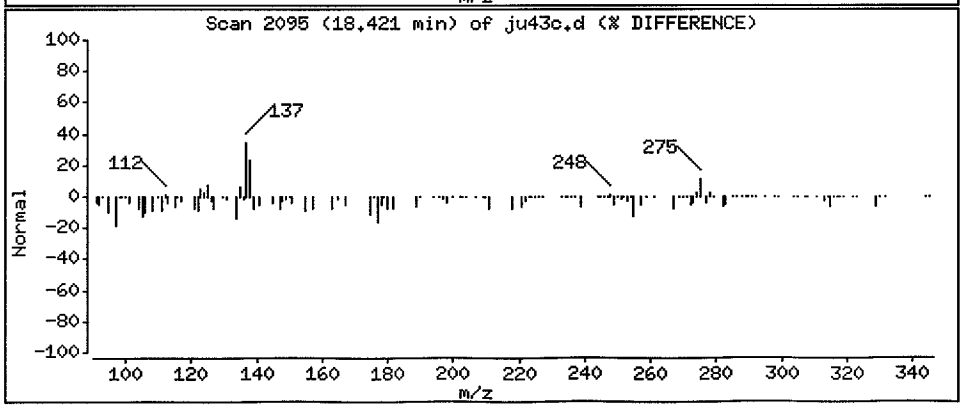
35 Benzo(g,h,i)perylene

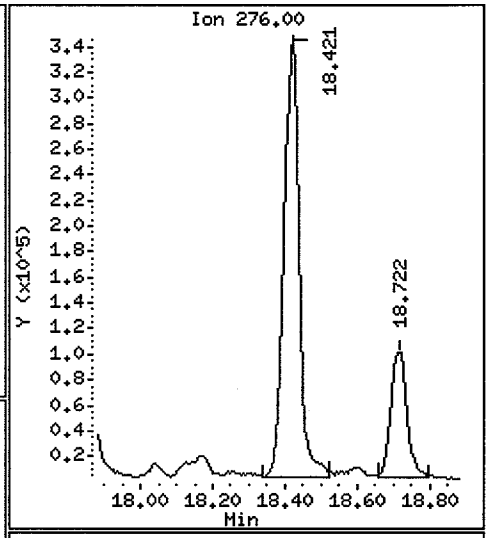
Concentration: 1681 ug/kg

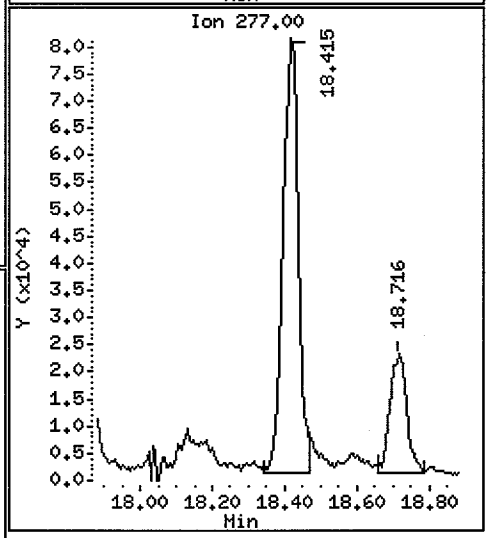












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

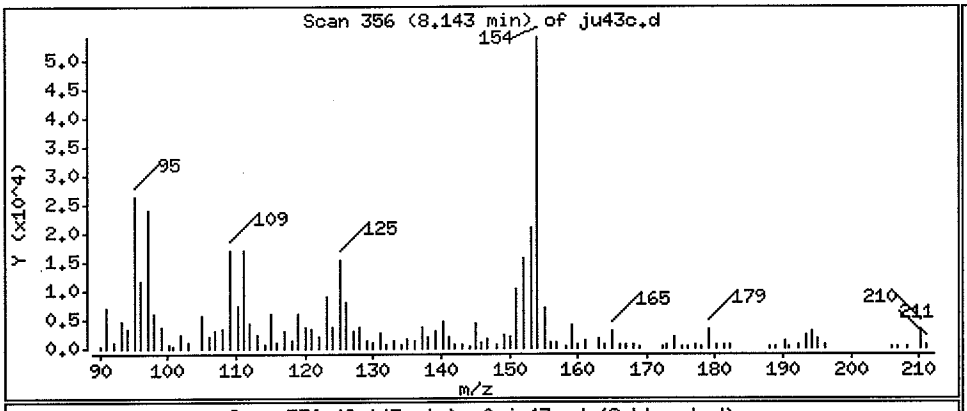
Operator: VTS

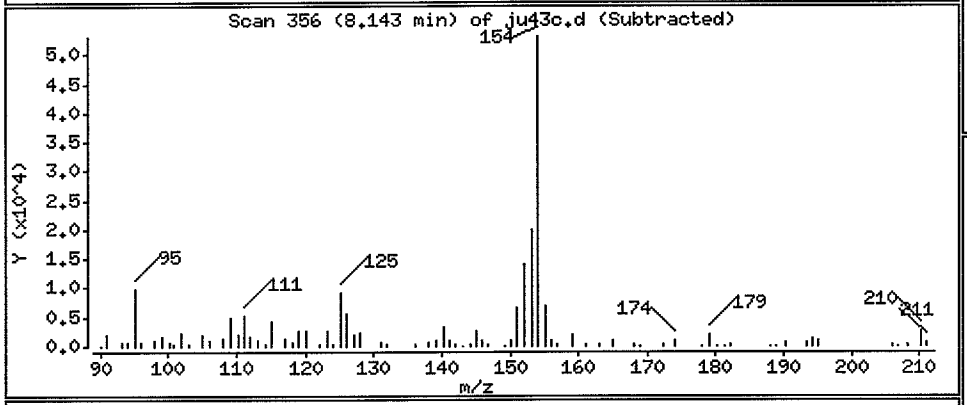
Column phase: ZB-5

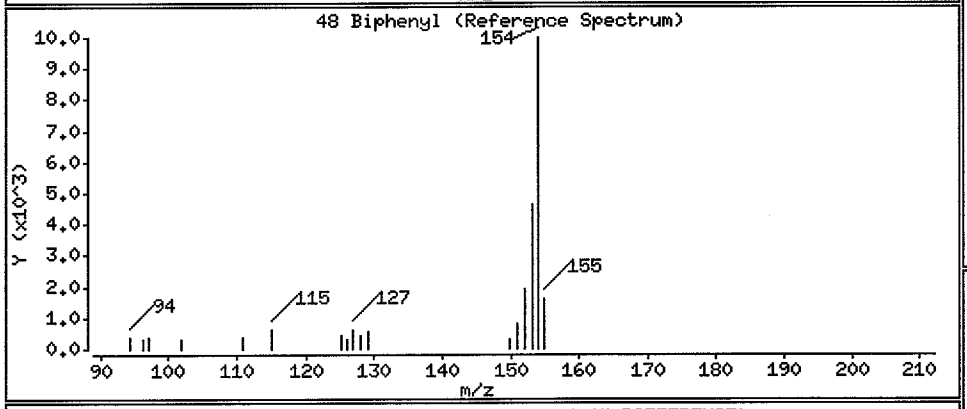
Column diameter: 0.25

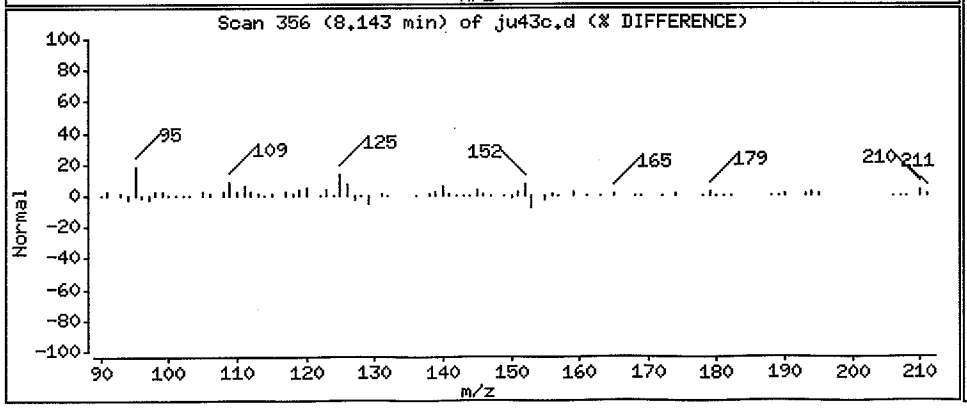
48 Biphenyl

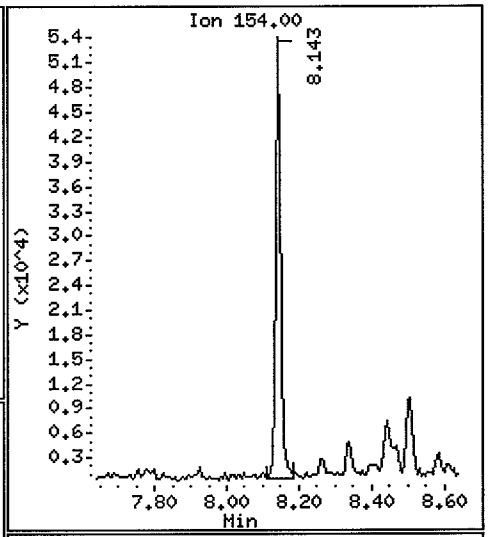
Concentration: 79.52 ug/kg

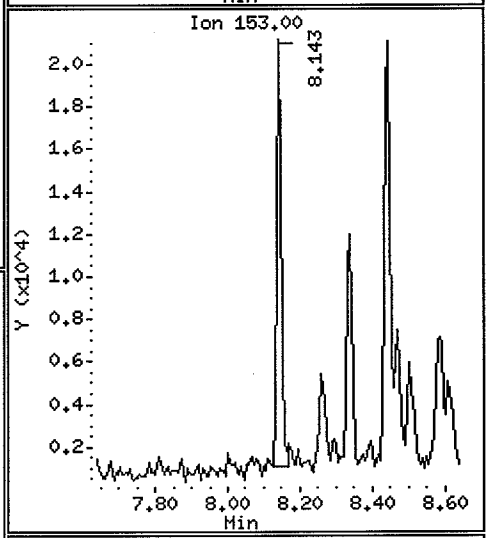


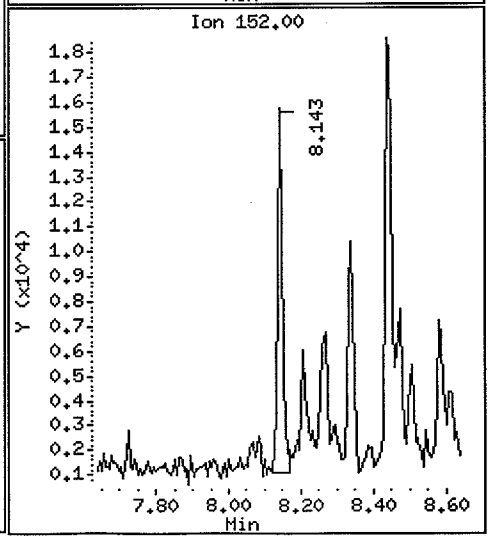












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

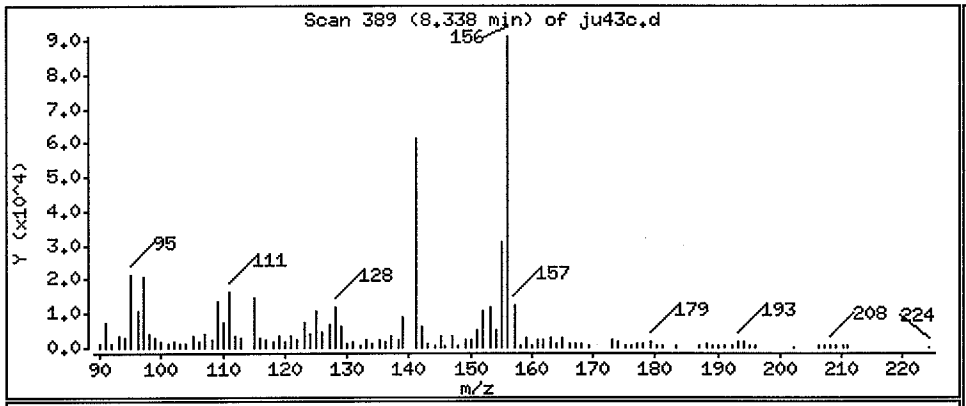
Operator: VTS

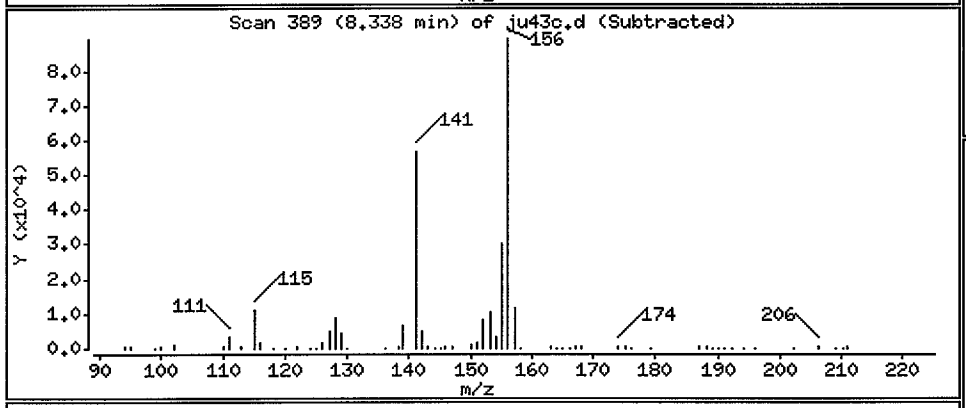
Column phase: ZB-5

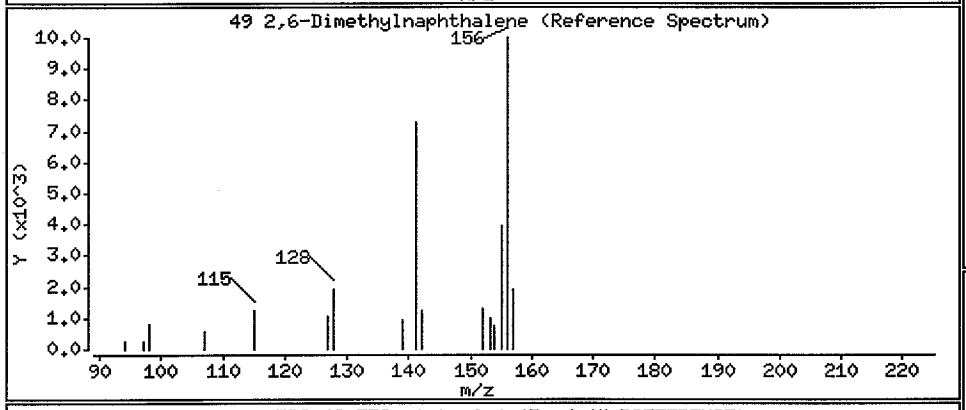
Column diameter: 0.25

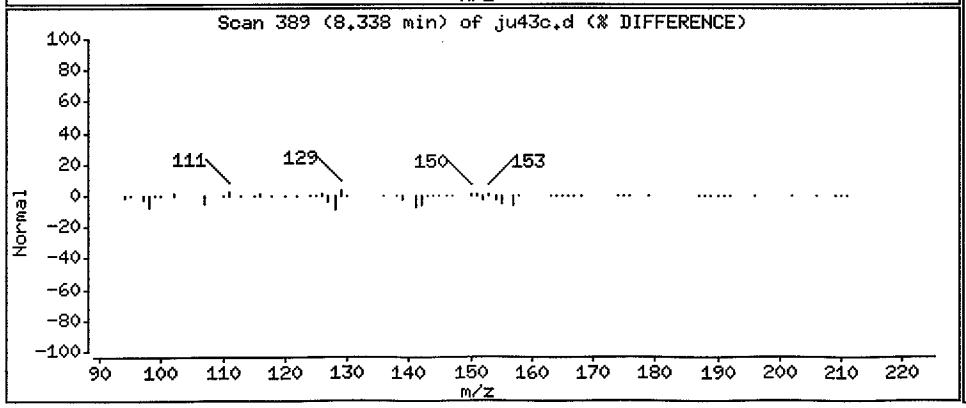
49 2,6-Dimethylnaphthalene

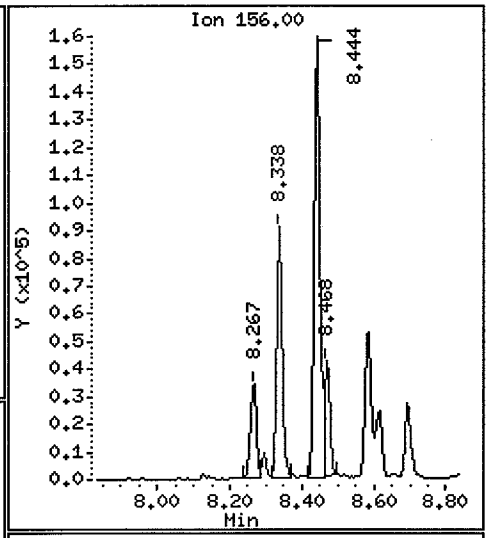
Concentration: 194.9 ug/kg

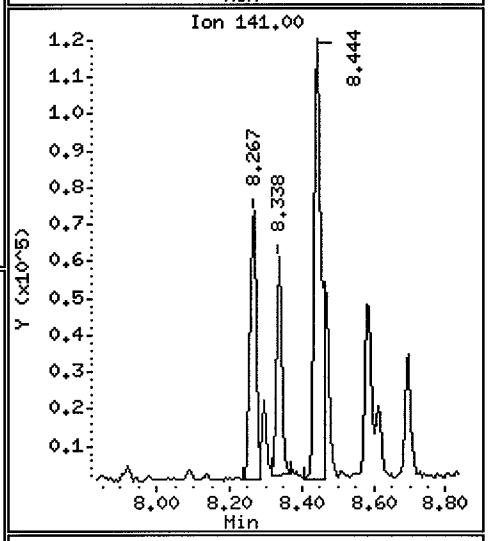


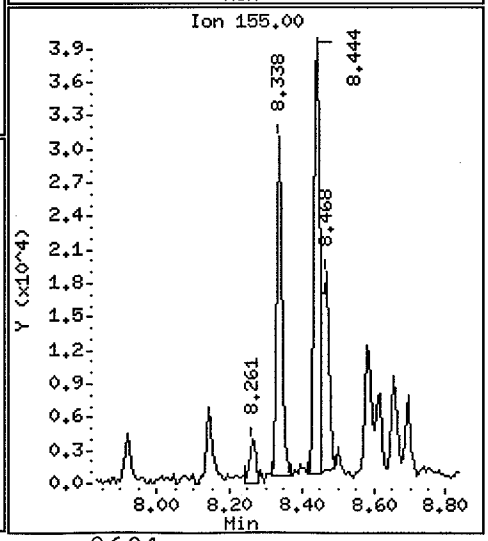












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

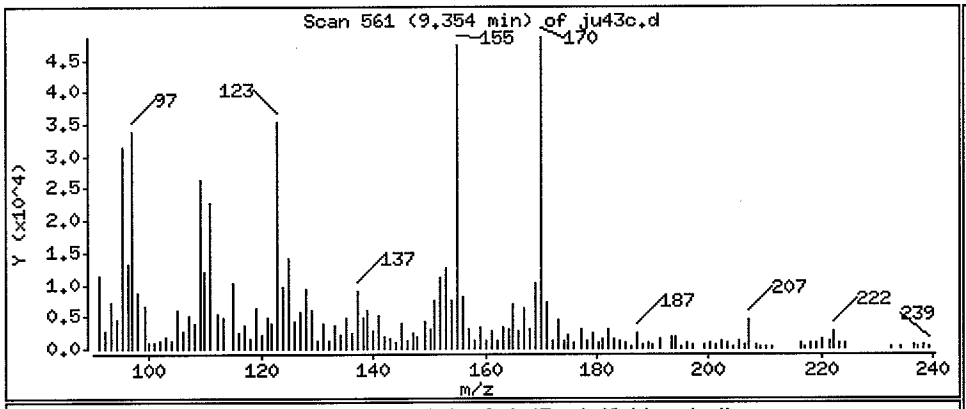
Operator: VTS

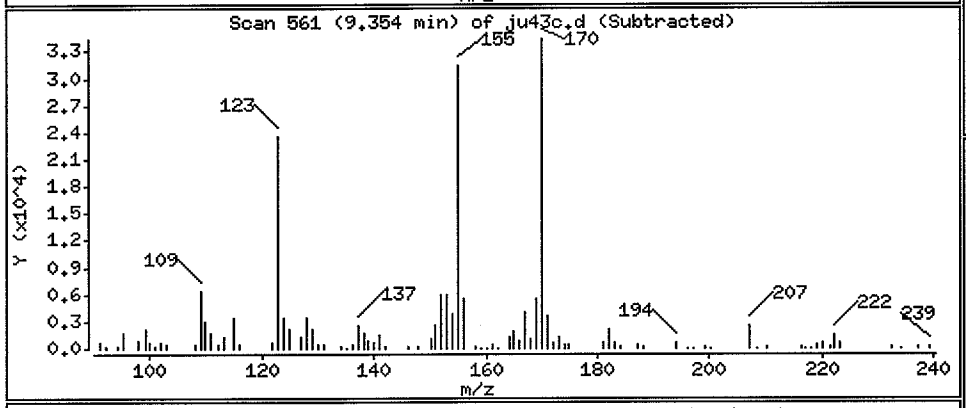
Column phase: ZB-5

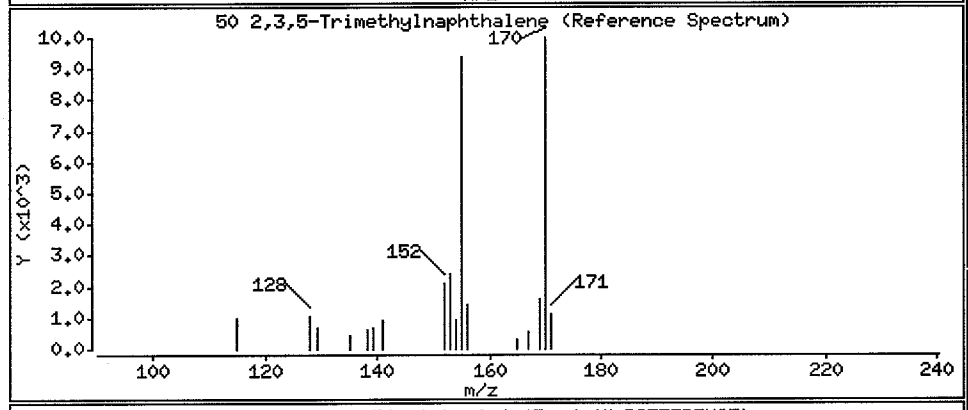
Column diameter: 0.25

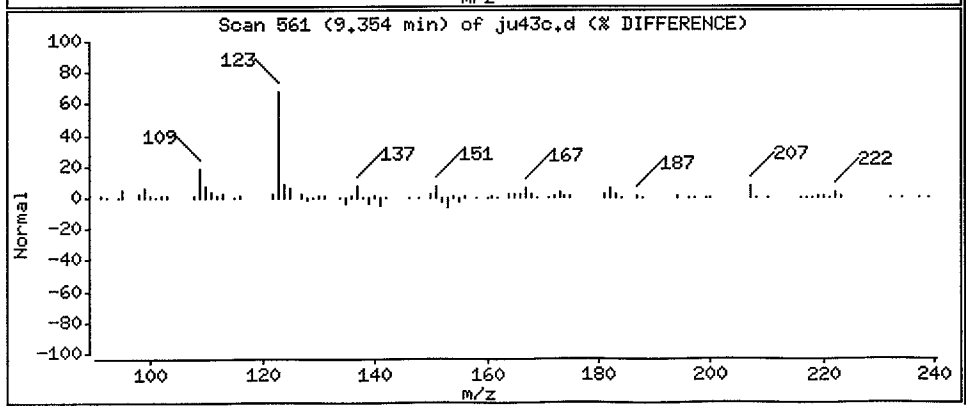
50 2,3,5-Trimethylnaphthalene

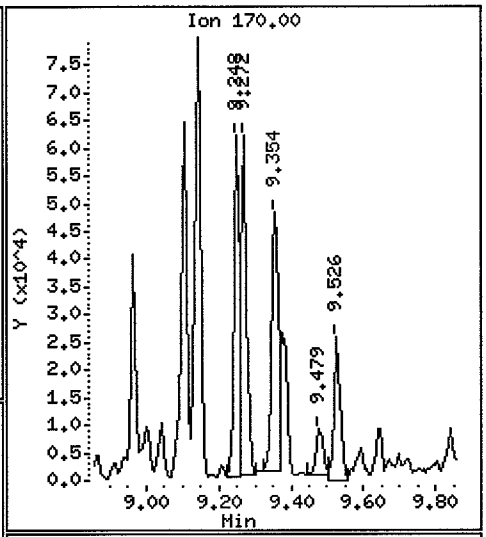
Concentration: 167.2 ug/kg

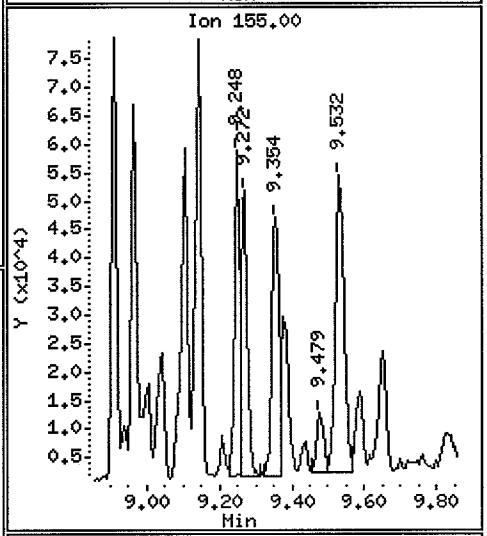


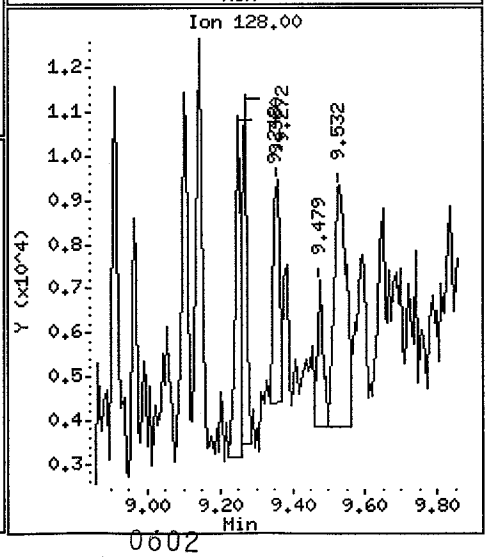












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

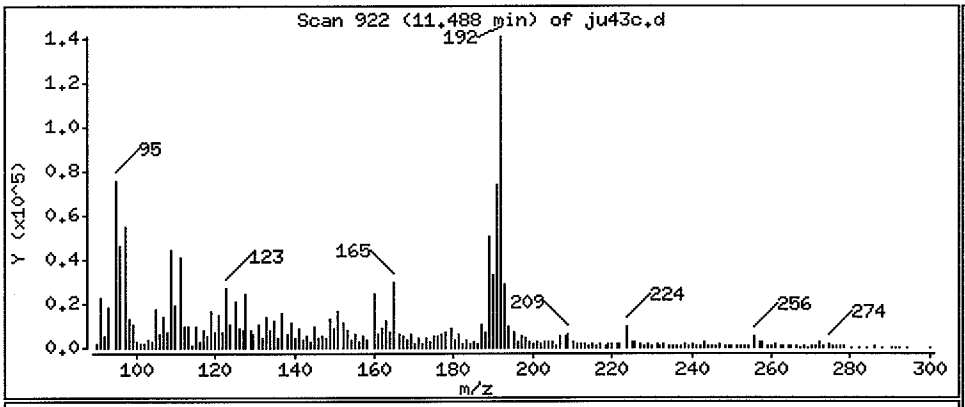
Operator: VTS

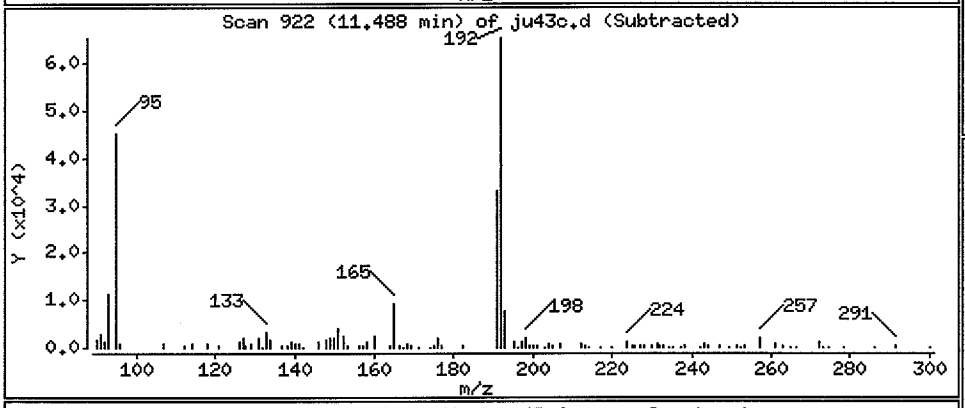
Column phase: ZB-5

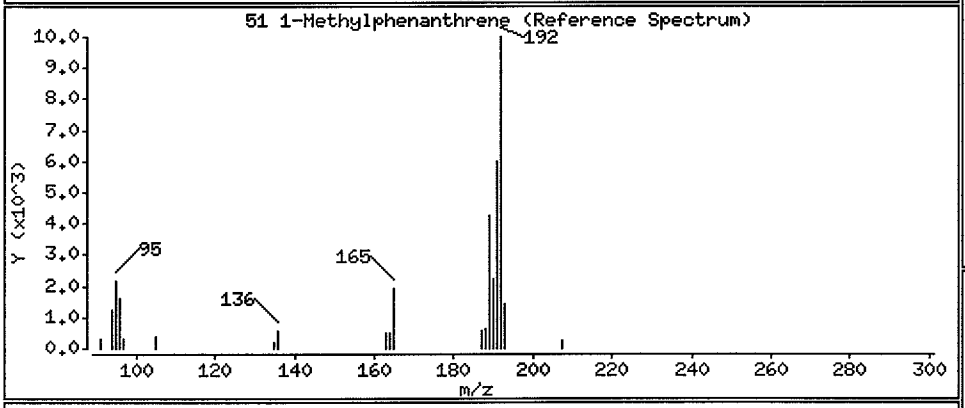
Column diameter: 0.25

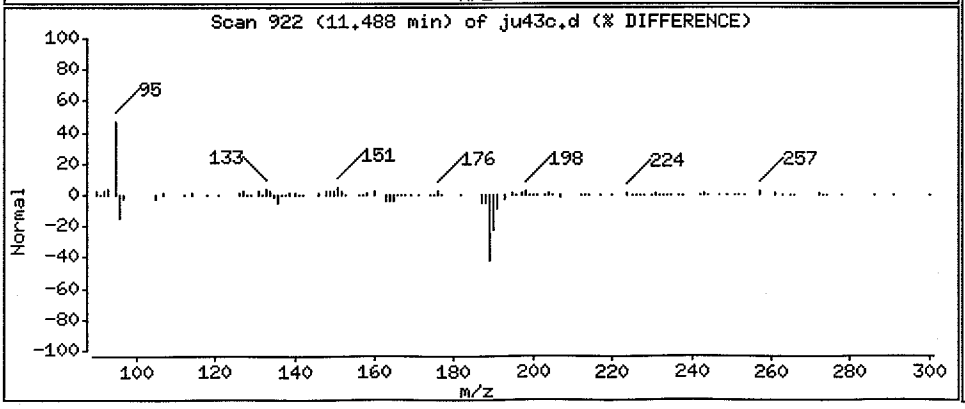
51 1-Methylphenanthrene

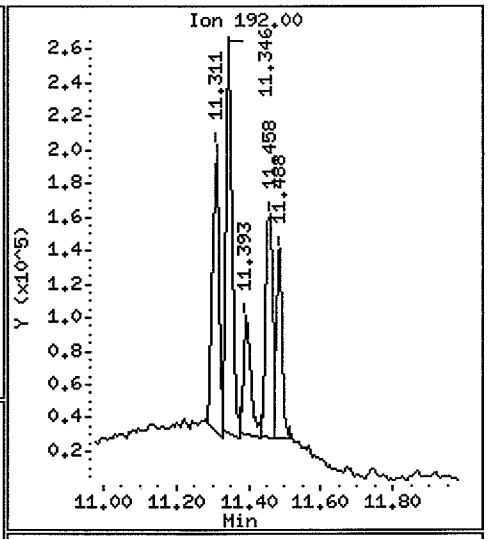
Concentration: 260.4 ug/kg

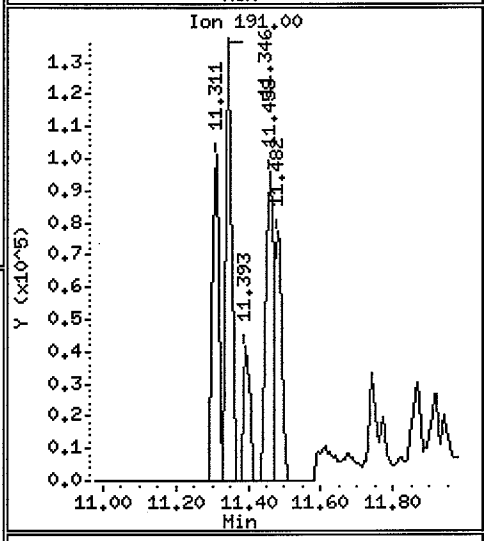


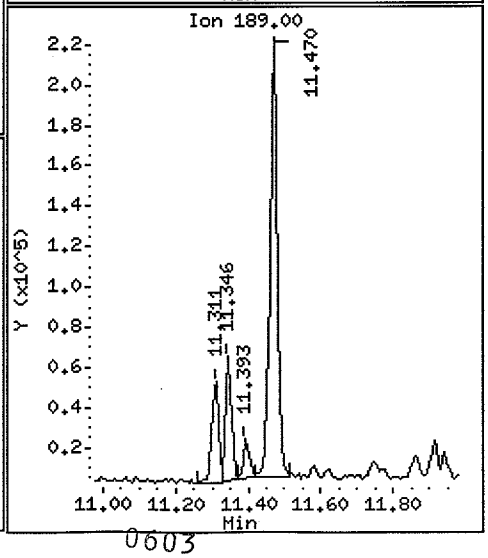












0603

Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

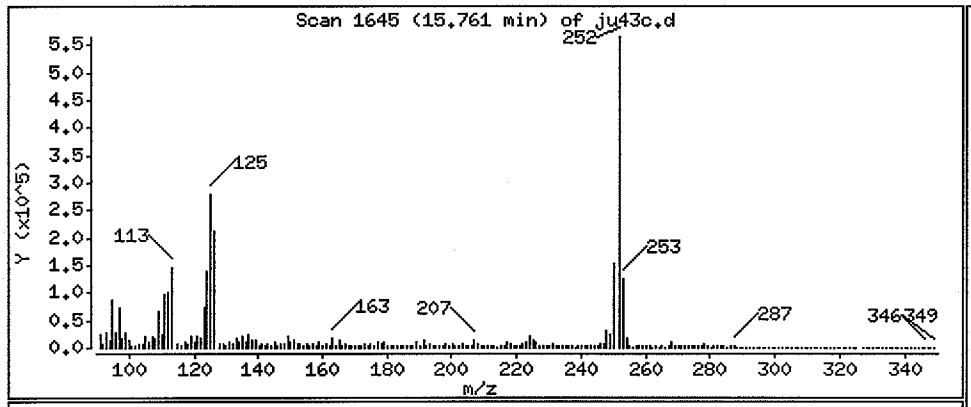
Operator: VTS

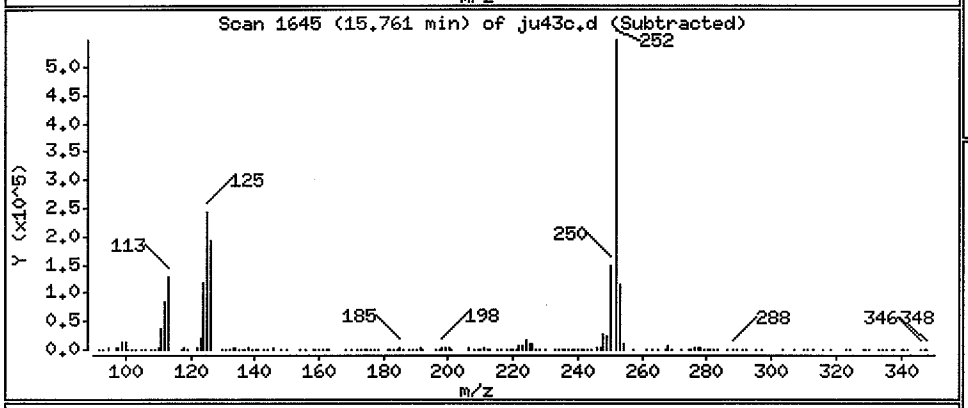
Column phase: ZB-5

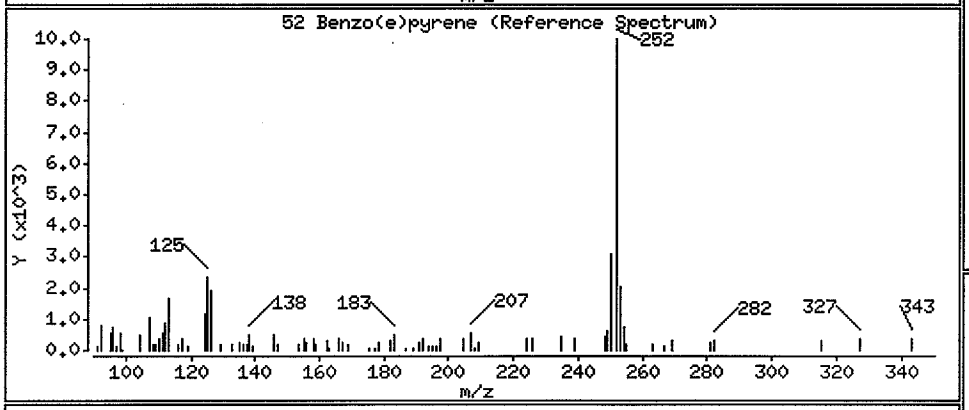
Column diameter: 0.25

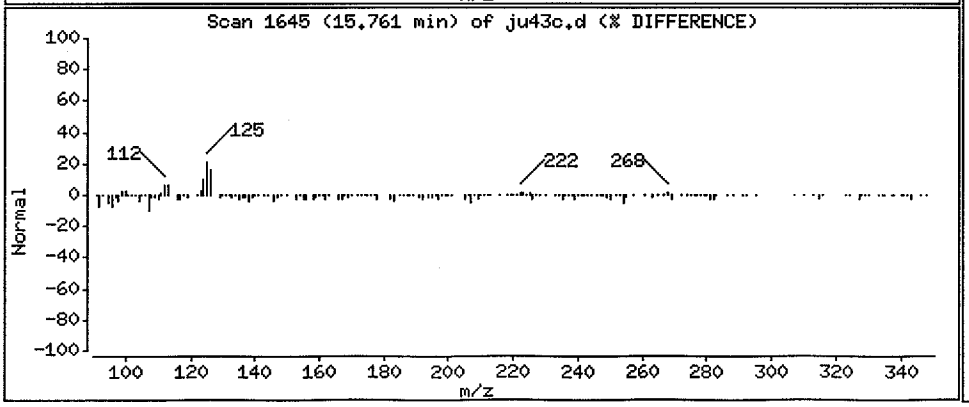
52 Benzo(e)pyrene

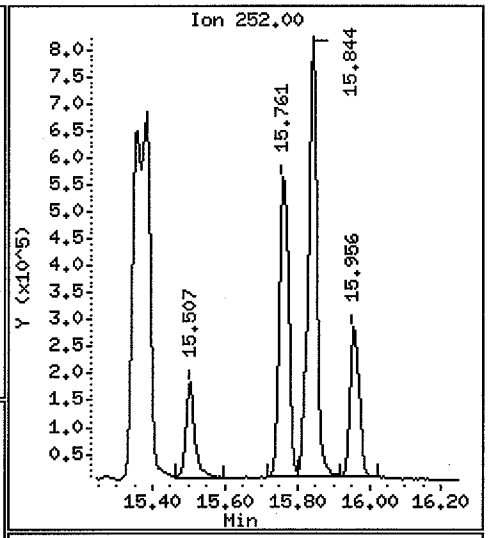
Concentration: 1368 ug/kg

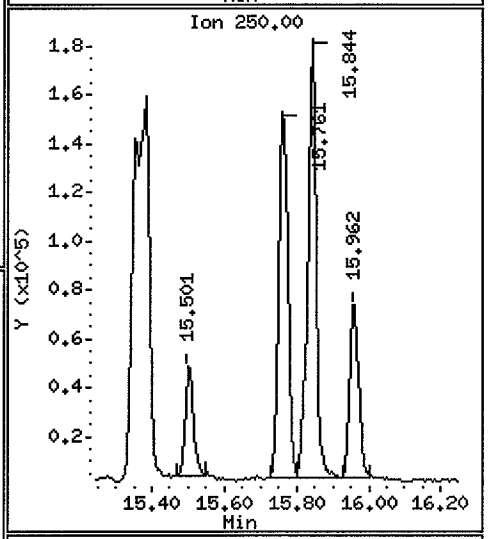


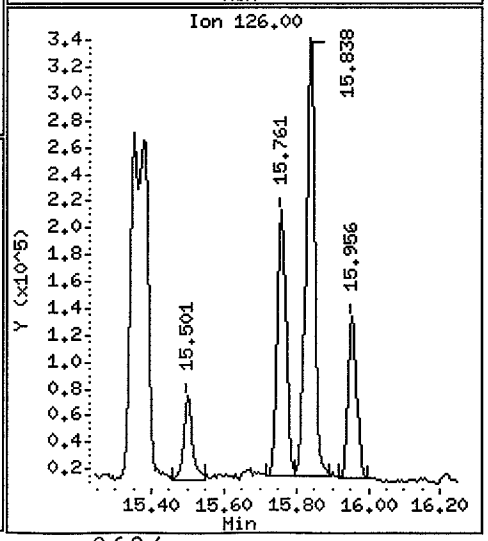












Data File: /chem3/nt1.i/20060912.b/ju43c.d

Date : 12-SEP-2006 14:17

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,3

Volume Injected (uL): 1.0

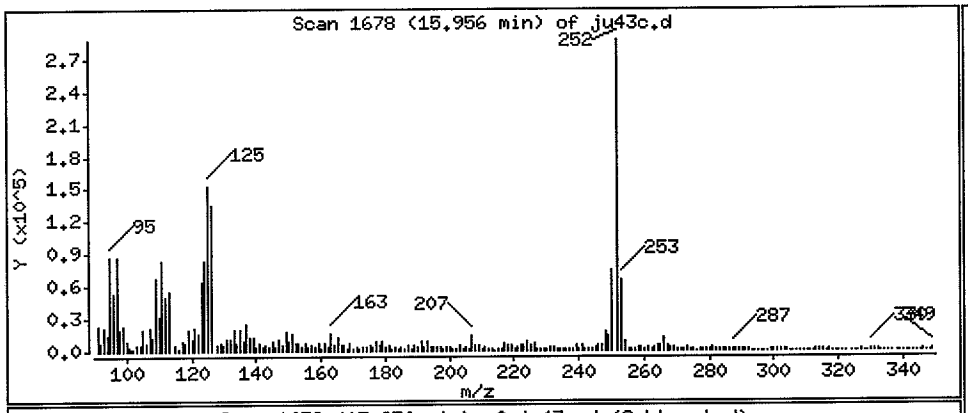
Operator: VTS

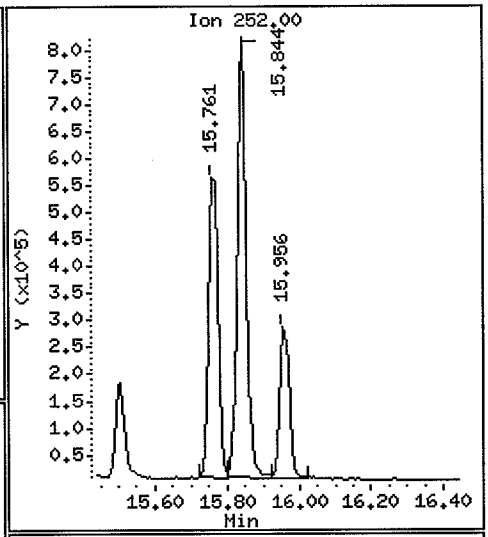
Column phase: ZB-5

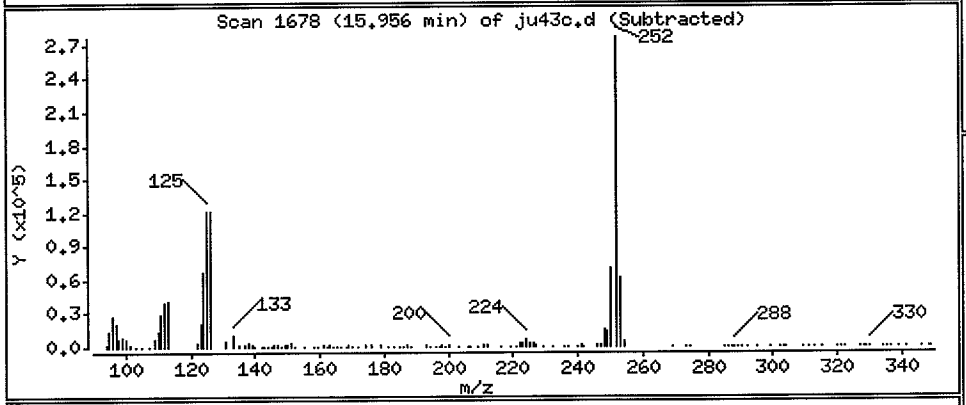
Column diameter: 0.25

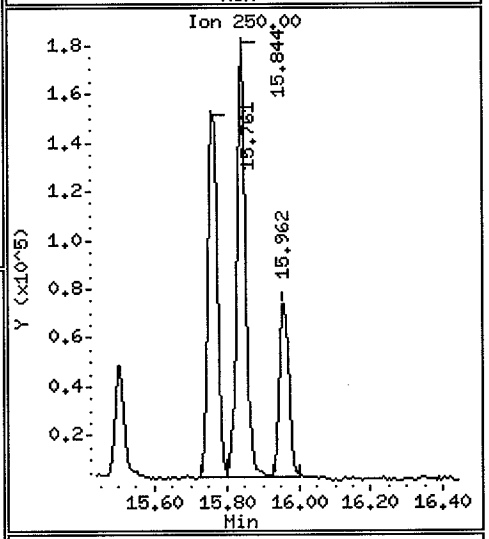
53 Perylene

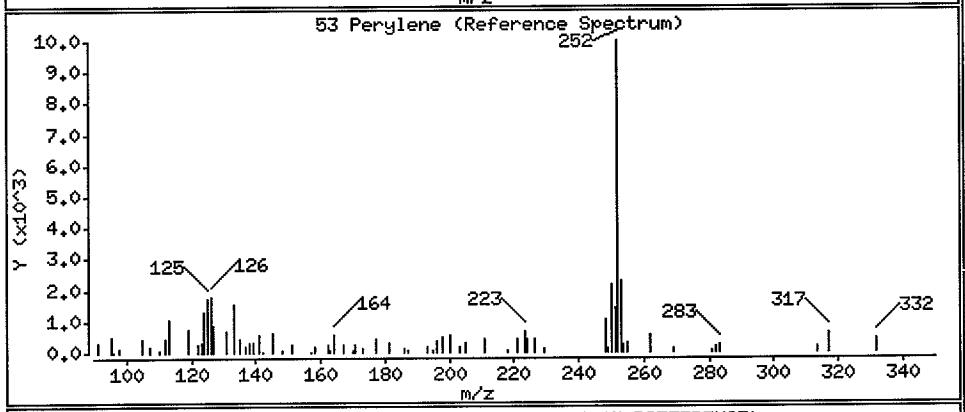
Concentration: 751.4 ug/kg

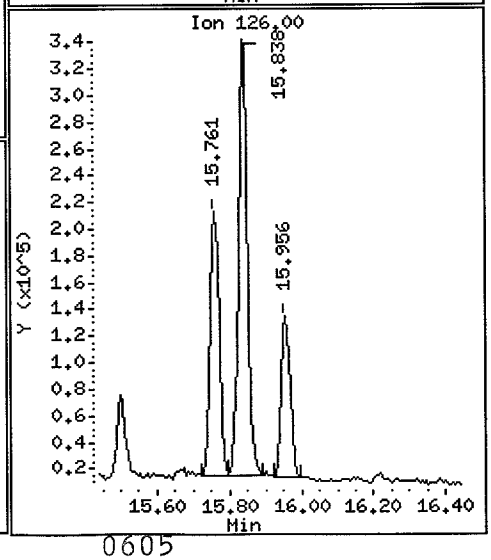


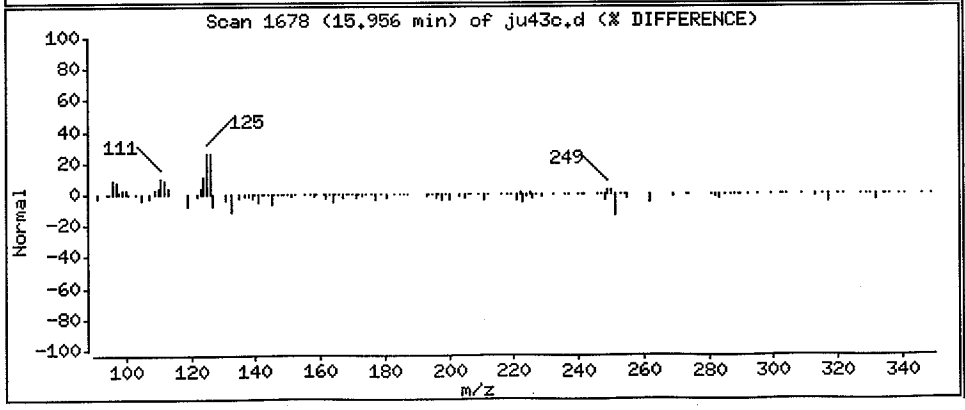












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-01-E**
Page 1 of 1 **DILUTION**

Lab Sample ID: JU43C
LIMS ID: 06-15847
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/13/06 15:33
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: 20.0
Percent Moisture: 43.7%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	98	550
91-57-6	2-Methylnaphthalene	98	390
90-12-0	1-Methylnaphthalene	98	170
208-96-8	Acenaphthylene	98	150
83-32-9	Acenaphthene	98	1,100
86-73-7	Fluorene	98	740
85-01-8	Phenanthrene	98	3,000
120-12-7	Anthracene	98	460
206-44-0	Fluoranthene	98	4,400
129-00-0	Pyrene	98	4,300
56-55-3	Benzo(a)anthracene	98	1,700
218-01-9	Chrysene	98	2,200
205-99-2	Benzo(b)fluoranthene	98	1,300
207-08-9	Benzo(k)fluoranthene	98	1,800
50-32-8	Benzo(a)pyrene	98	2,300
193-39-5	Indeno(1,2,3-cd)pyrene	98	1,200
53-70-3	Dibenz(a,h)anthracene	98	260
191-24-2	Benzo(g,h,i)perylene	98	1,500
198-55-0	Perylene	98	750
92-52-4	Biphenyl	98	< 98 U
581-42-0	2,6-Dimethylnaphthalene	98	190
832-69-9	1-Methylphenanthrene	98	280
192-97-2	Benzo(e)pyrene	98	1,400
2245-38-7	2,3,5-Trimethylnaphthalene	98	150

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	88.0%
d14-Dibenzo(a,h)anthracen	105%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060913.b/ju43cdl.d
Lab Smp Id: JU43CDL Client Smp ID: T4-B414-01-E
Inj Date : 13-SEP-2006 15:33
Operator : VTS Inst ID: nt1.i
Smp Info : JU43C,20
Misc Info : 06-15847
Comment : 1ul Injection
Method : /chem3/nt1.i/20060913.b/simpna.m
Meth Date : 14-Sep-2006 09:42 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 2
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	20.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.10000	Weight of sample extracted (g)
M	43.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.813	6.807	(1.000)	307757	2.00000		
	2 Naphthalene	128	6.830	6.831	(1.003)	83145	0.56233	551.8	
$	3 2-Methylnaphthalene-d10	152	7.569	7.563	(1.111)	10047	0.13165	129.2	
	4 2-Methylnaphthalene	142	7.605	7.599	(1.116)	31231	0.39742	390.0	
	5 1-Methylnaphthalene	142	7.735	7.729	(1.135)	14685	0.17220	169.0	
	7 Acenaphthylene	152	8.686	8.686	(0.979)	18827	0.14686	144.1	
*	8 Acenaphthene-d10	164	8.869	8.864	(1.000)	156042	2.00000		
	9 Acenaphthene	153	8.905	8.905	(1.004)	86926	1.12267	1102	
	10 Dibenzofuran	168	9.094	9.094	(1.025)	38100	~~0.34624~~	339.8	DR
	11 Fluorene	166	9.520	9.514	(1.073)	63668	0.75790	743.7	
*	15 Phenanthrene-d10	188	10.678	10.672	(1.000)	206410	2.00000		
	16 Phenanthrene	178	10.707	10.702	(1.003)	340760	3.04554	2989	
	17 Anthracene	178	10.761	10.761	(1.008)	52540	0.46559	456.9	
	19 Fluoranthene	202	12.197	12.197	(1.142)	424000	4.43955	4357	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
	20 Pyrene	202	12.486	12.481	(0.893)	490297	4.40345	4321	
	22 Benzo(a)anthracene	228	13.964	13.964	(0.998)	164396	1.73325	1701	
*	23 Chrysene-d12	240	13.988	13.982	(1.000)	158203	2.00000		
	24 Chrysene	228	14.017	14.017	(1.002)	201121	2.25651	2214	
	28 Benzo(b)fluoranthene	252	15.341	15.335	(0.965)	124447	1.37292	1347	
	29 Benzo(k)fluoranthene	252	15.365	15.365	(0.966)	174275	1.84091	1807	(M)
	30 Benzo(a)pyrene	252	15.820	15.814	(0.995)	195527	2.39159	2347	
*	31 Perylene-d12	264	15.902	15.897	(1.000)	160069	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.811	17.806	(1.120)	106454	1.21290	1190	
$	32 Dibenz(a,h)anthrancene-d14	292	17.741	17.729	(1.116)	8253	0.15735	154.4	(M)
	34 Dibenz(a,h)anthracene	278	17.800	17.794	(1.119)	18780	0.26401	259.1	
	35 Benzo(g,h,i)perylene	276	18.379	18.367	(1.156)	118751	1.53097	1502	
	48 Biphenyl	154	8.142	8.137	(0.918)	7453	0.07702	75.58	J
	49 2,6-Dimethylnaphthalene	156	8.338	8.332	(0.940)	13897	0.19012	186.6	
	50 2,3,5-Trimethylnaphthalene	170	9.348	9.354	(1.054)	8929	0.15464	151.8	
	51 1-Methylphenanthrene	192	11.482	11.476	(0.821)	20720	0.27748	272.3	
	52 Benzo(e)pyrene	252	15.743	15.737	(0.990)	125694	1.38003	1354	
	53 Perylene	252	15.944	15.938	(1.003)	65281	0.76813	753.8	

QC Flag Legend

M - Compound response manually integrated.

VTS

9.14.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43cdl.d
Lab Smp Id: JU43CDL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15847

Calibration Date: 13-SEP-2006
Calibration Time: 10:18
Client Smp ID: T4-B414-01-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	337011	168506	674022	307757	-8.68
8 Acenaphthene-d10	171704	85852	343408	156042	-9.12
15 Phenanthrene-d10	223924	111962	447848	206410	-7.82
23 Chrysene-d12	172575	86288	345150	158203	-8.33
31 Perylene-d12	173129	86564	346258	160069	-7.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.86	8.36	9.36	8.87	0.06
15 Phenanthrene-d10	10.67	10.17	11.17	10.68	0.05
23 Chrysene-d12	13.98	13.48	14.48	13.99	0.04
31 Perylene-d12	15.90	15.40	16.40	15.90	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

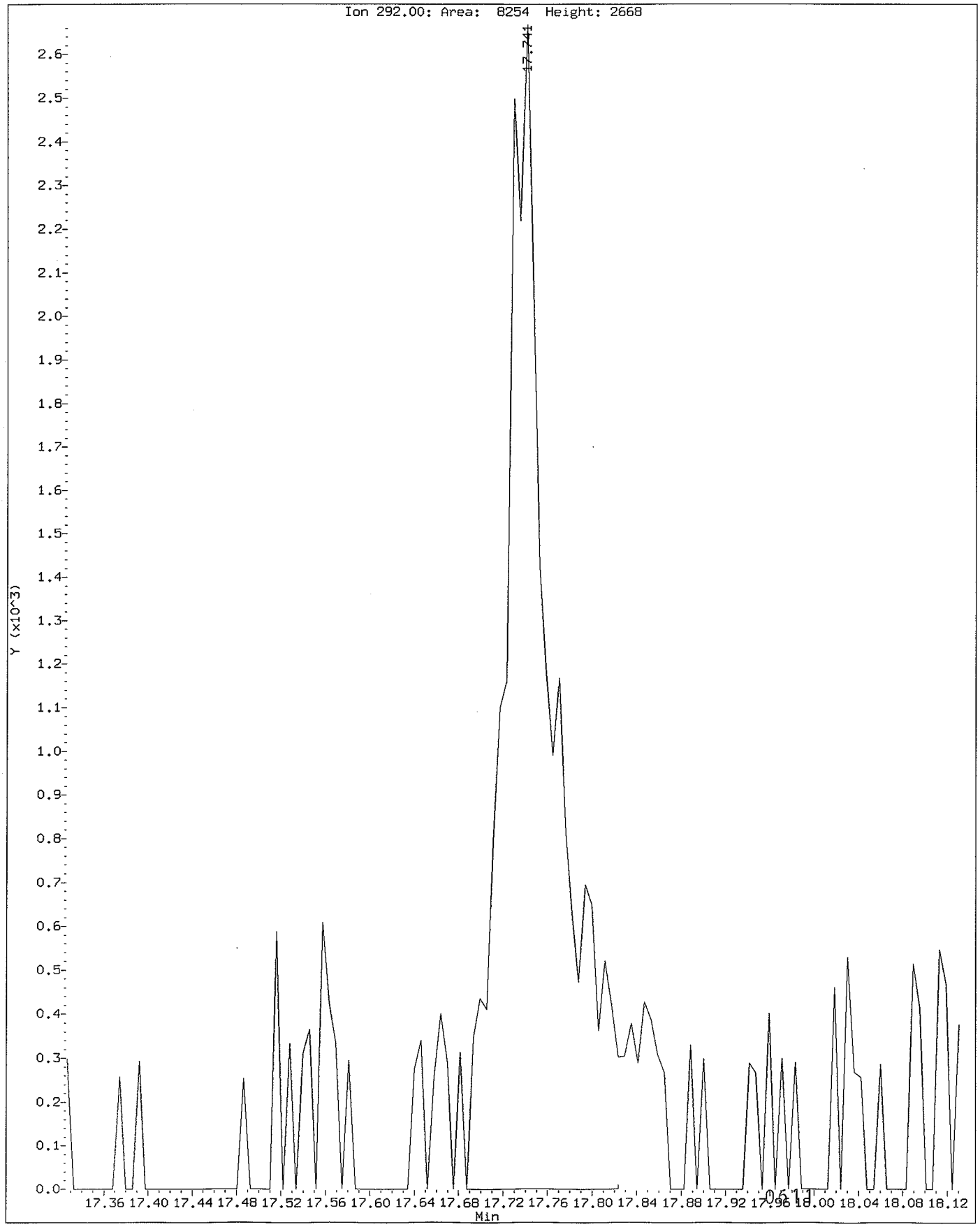
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43CDL
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15847

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-01-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.2	129.2	87.77	32-97
$ 32 Dibenz(a,h)anthran	147.2	154.4	104.90	21-105

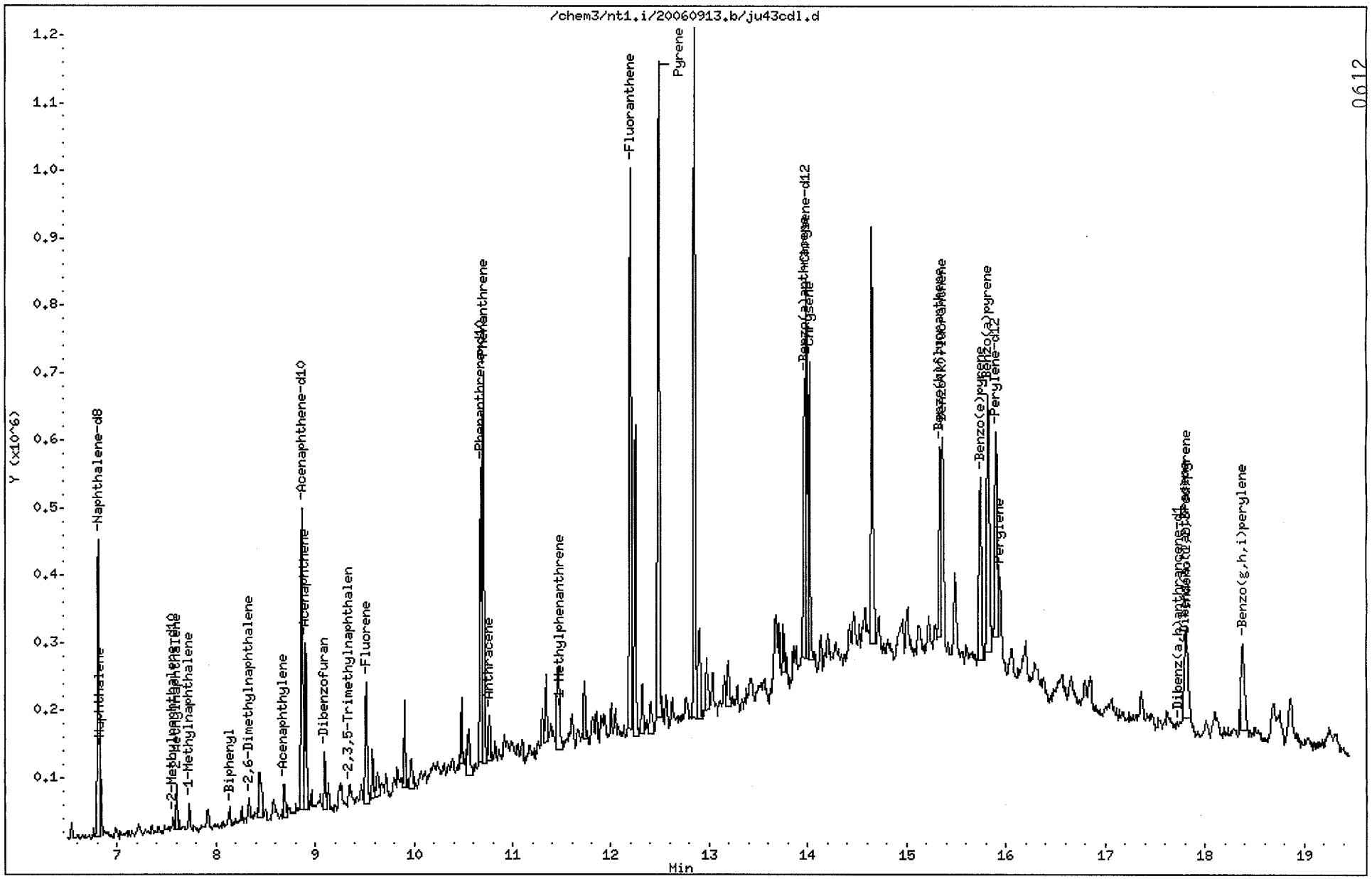
Data File: /chem3/nt1.i/20060913.b/ju43cdl.d
Injection Date: 13-SEP-2006 15:33
Instrument: nt1.i
Client Sample ID: T4-B414-01-E

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



Data File: /chem3/nt1.i/20060913.b/ju43cdl.d
Date : 13-SEP-2006 15:33
Client ID: T4-B414-01-E
Sample Info: JU43C,20
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

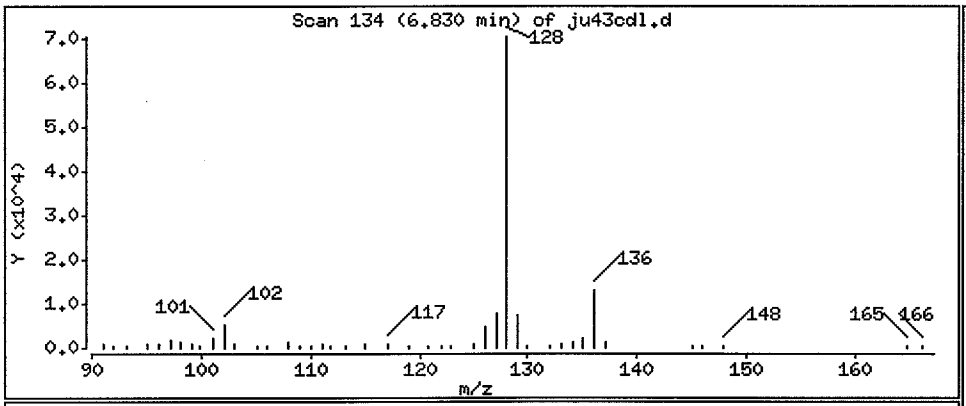
Operator: VTS

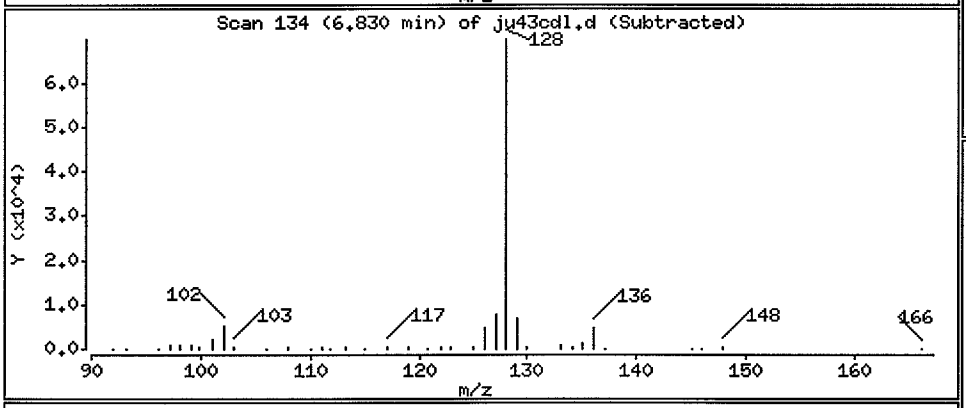
Column phase: ZB-5

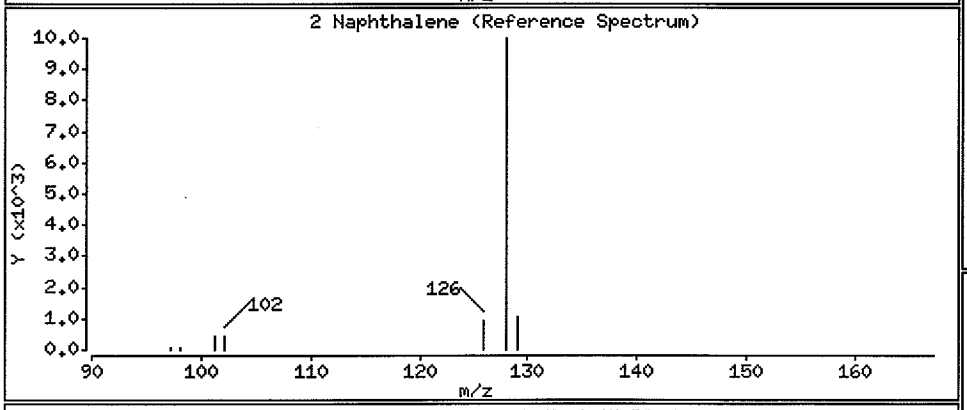
Column diameter: 0.25

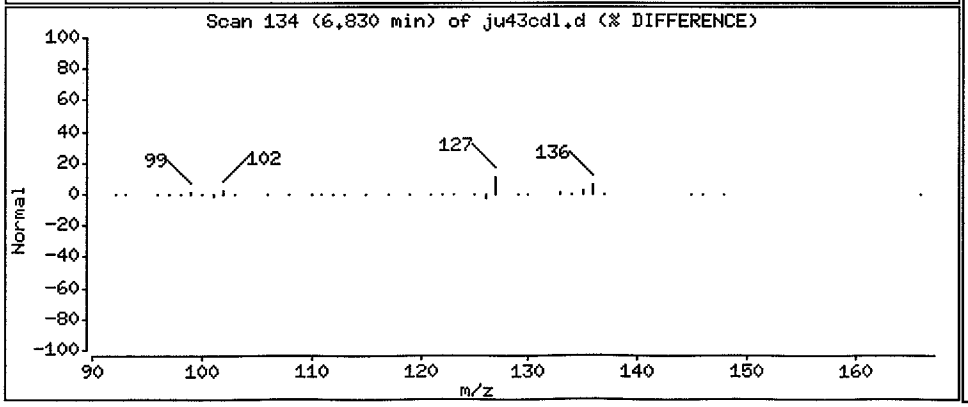
2 Naphthalene

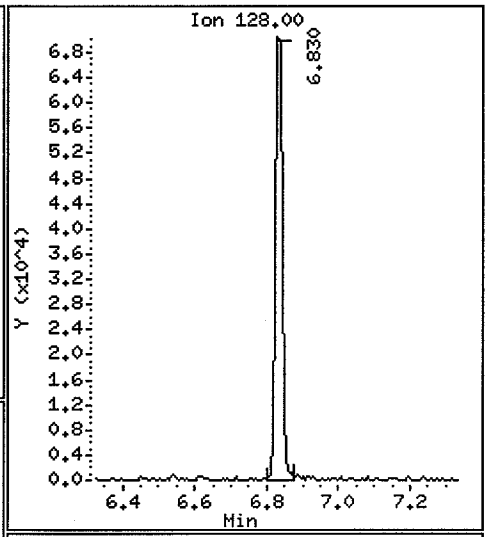
Concentration: 551.8 ug/kg

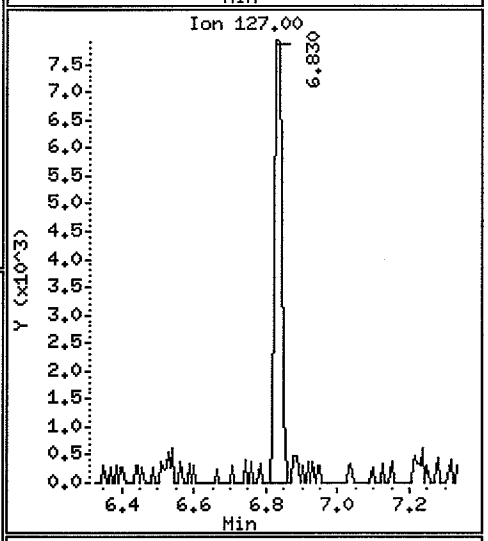


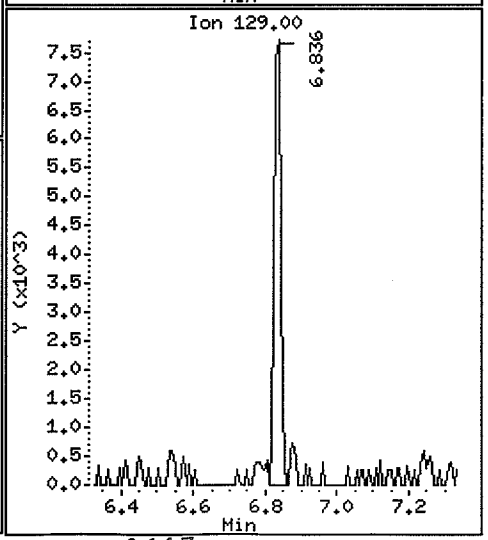












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

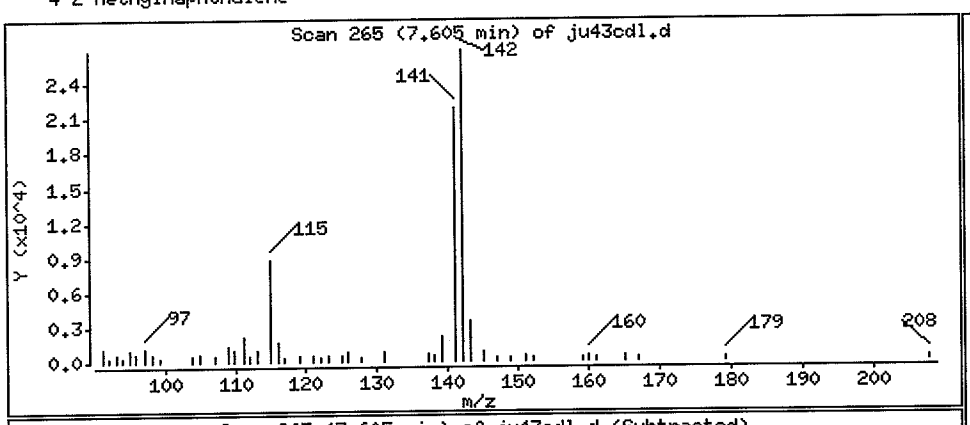
Operator: VTS

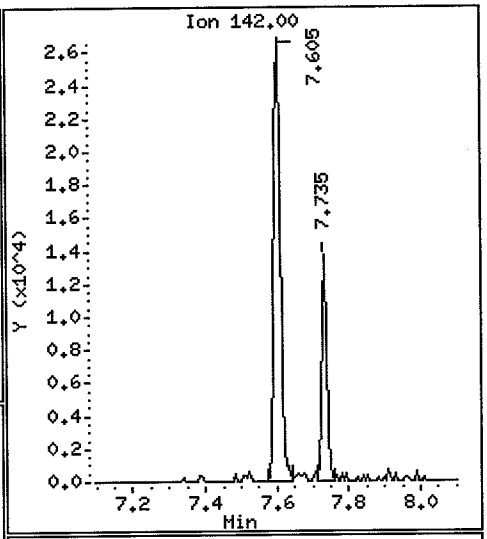
Column phase: ZB-5

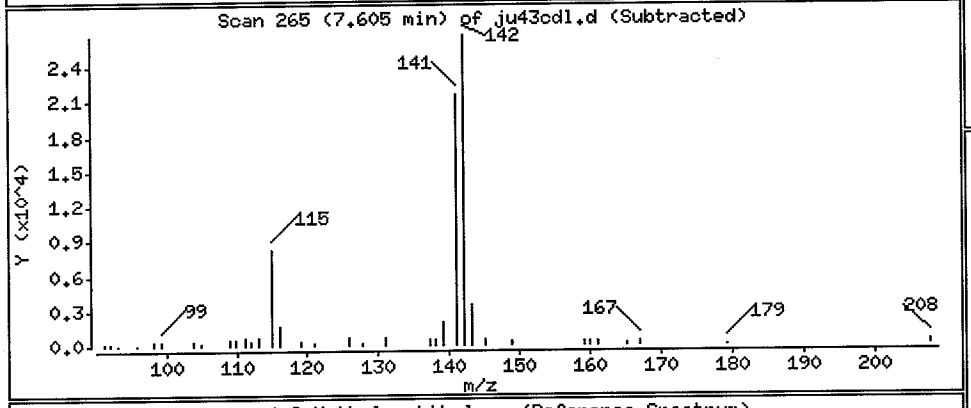
Column diameter: 0.25

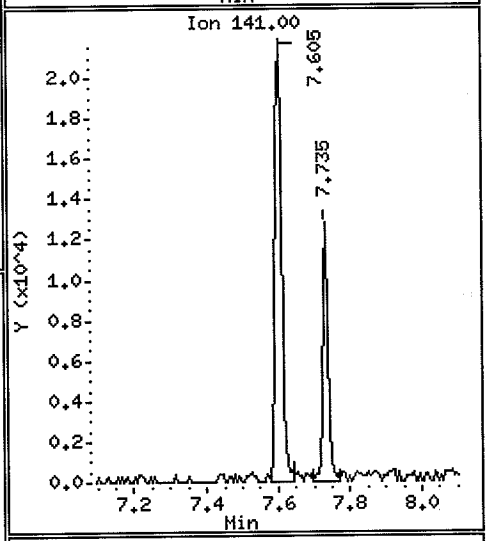
4 2-Methylnaphthalene

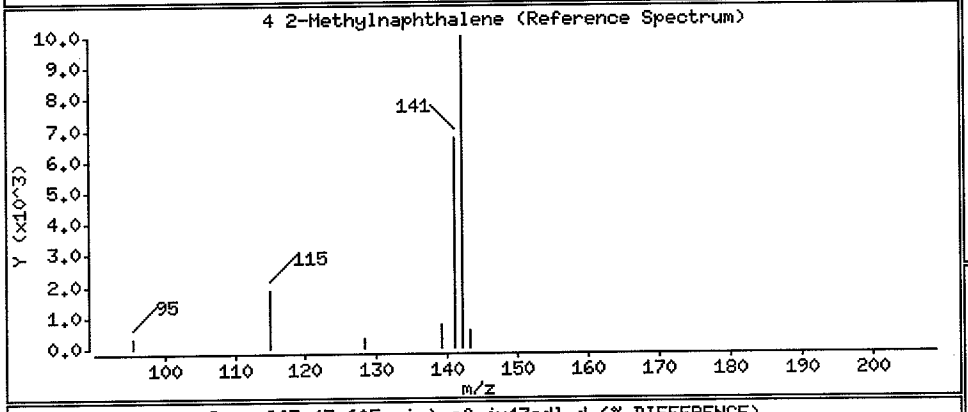
Concentration: 390.0 ug/kg

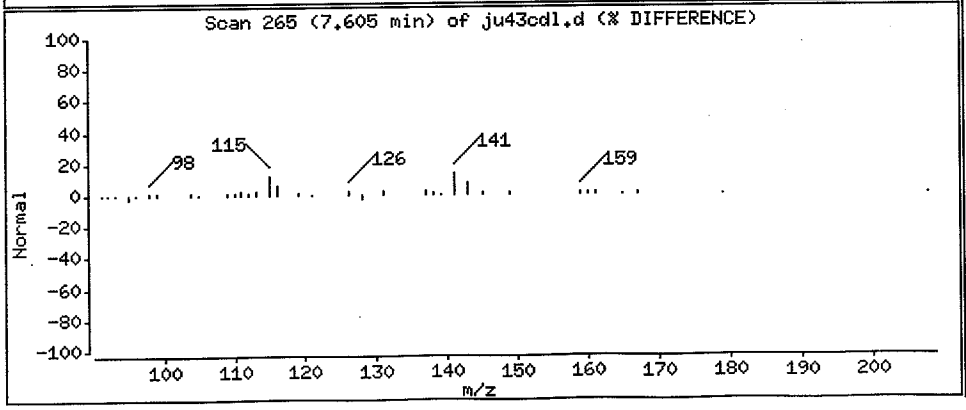


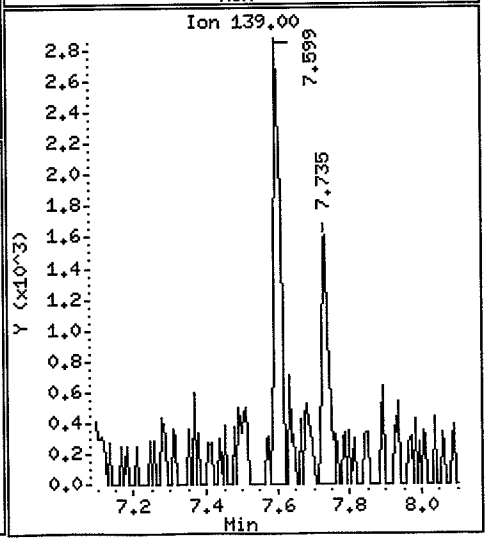












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

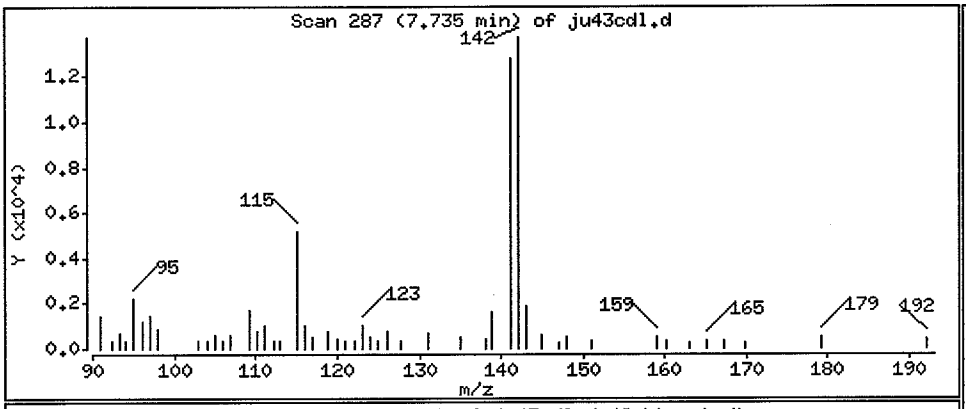
Operator: VTS

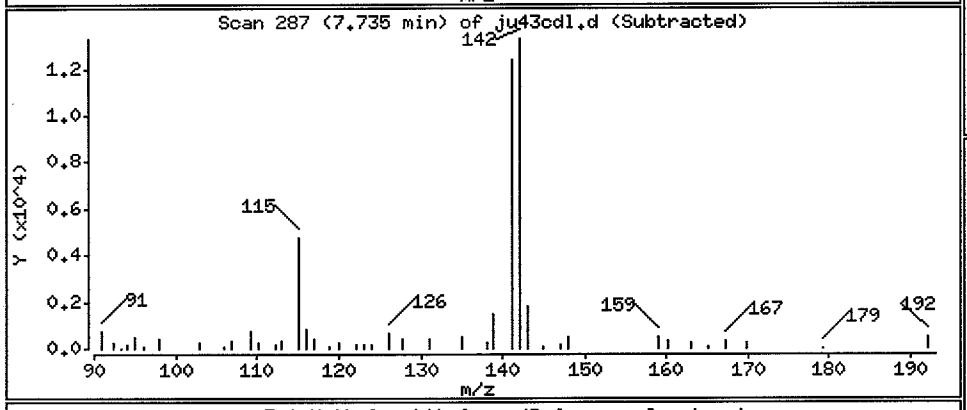
Column phase: ZB-5

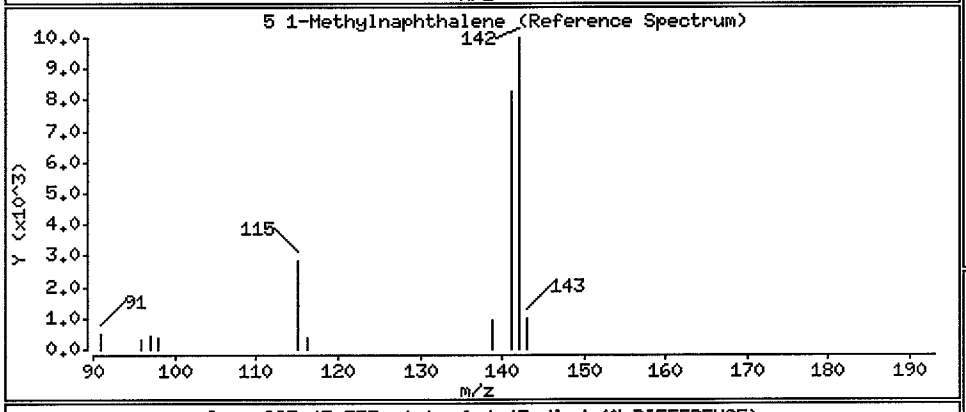
Column diameter: 0.25

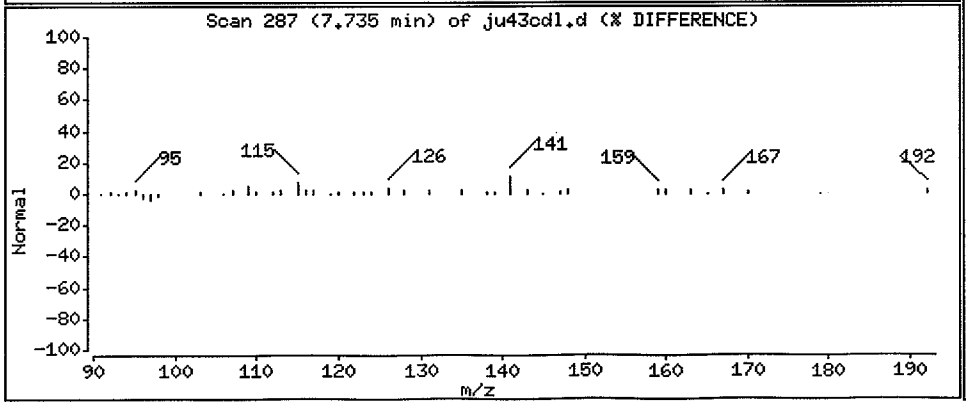
5 1-Methylnaphthalene

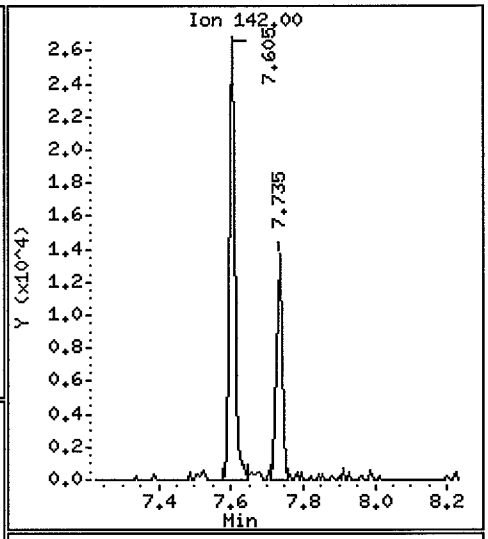
Concentration: 169.0 ug/kg

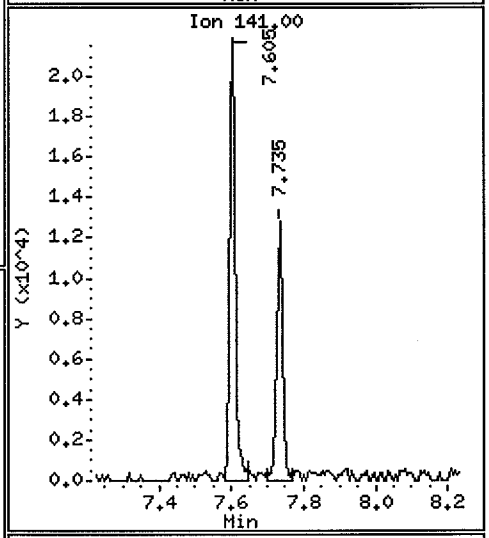


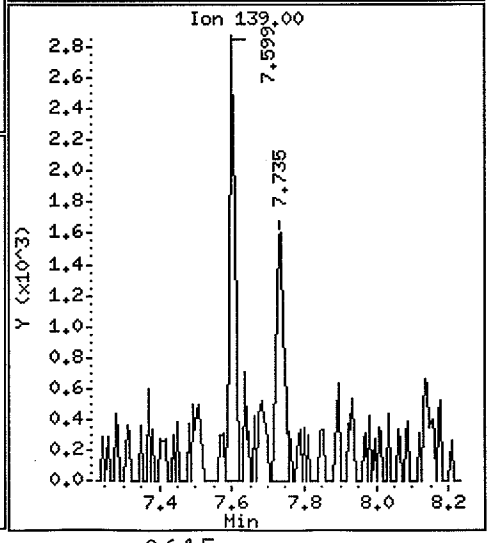












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

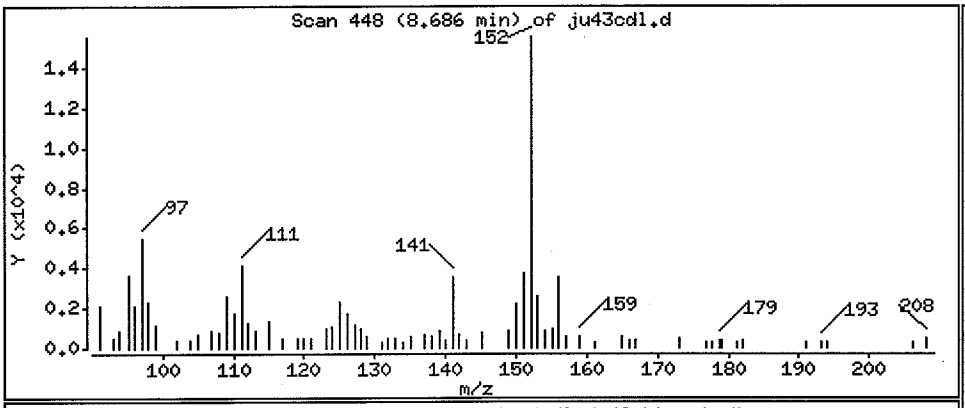
Operator: VTS

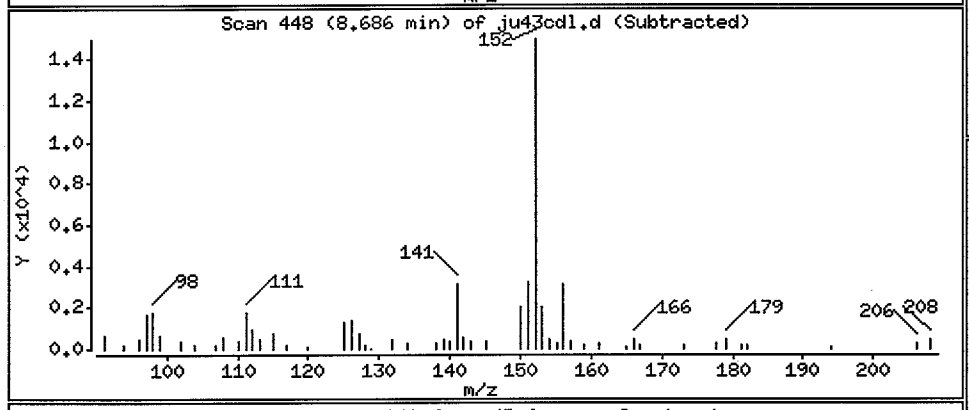
Column phase: ZB-5

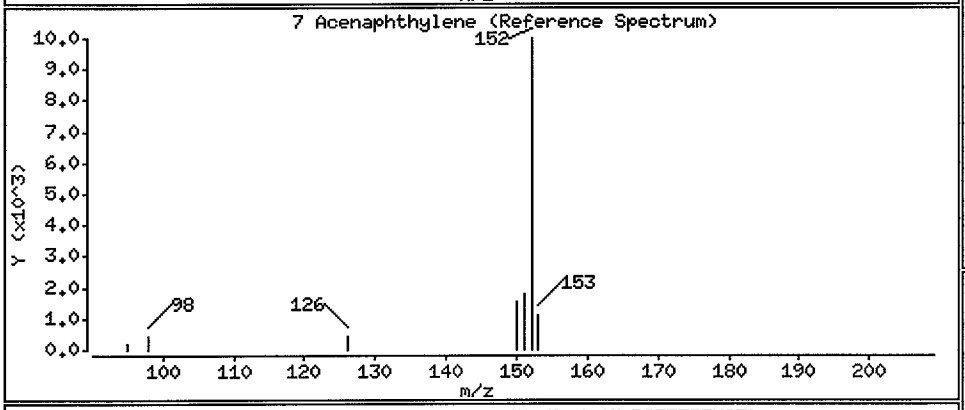
Column diameter: 0.25

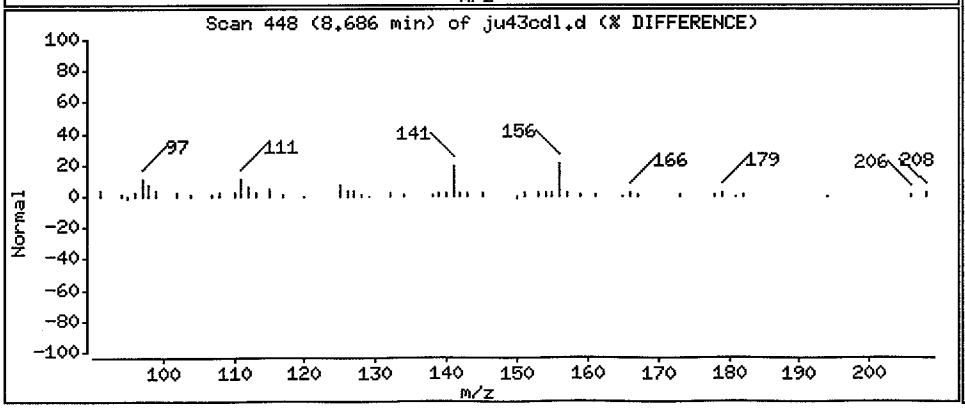
7 Acenaphthylene

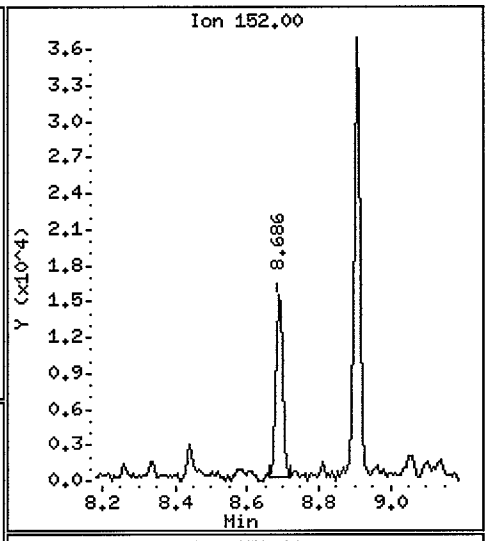
Concentration: 144.1 ug/kg

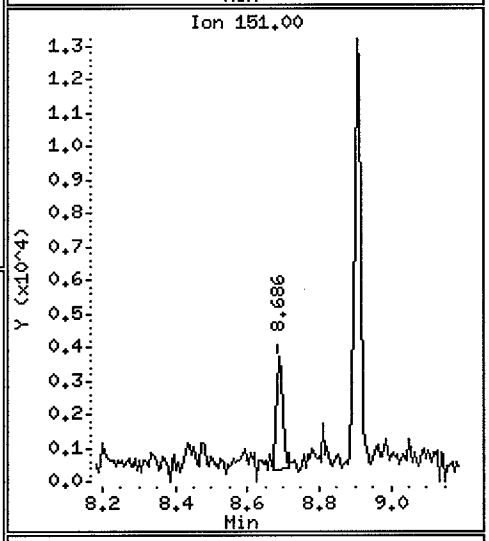


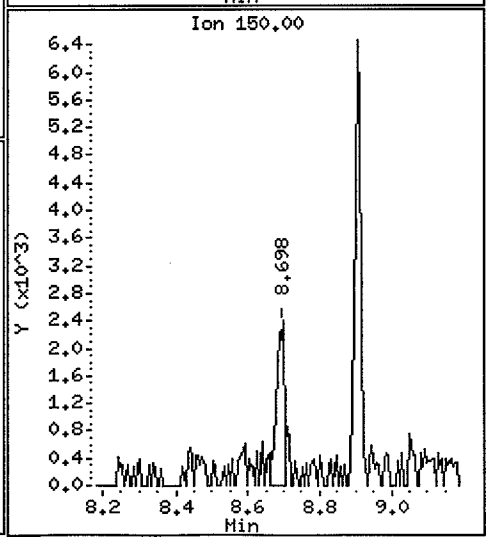












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

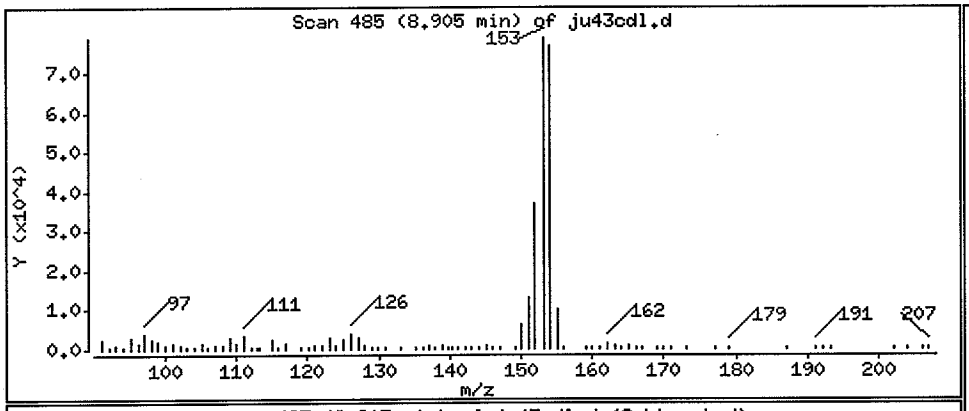
Operator: VTS

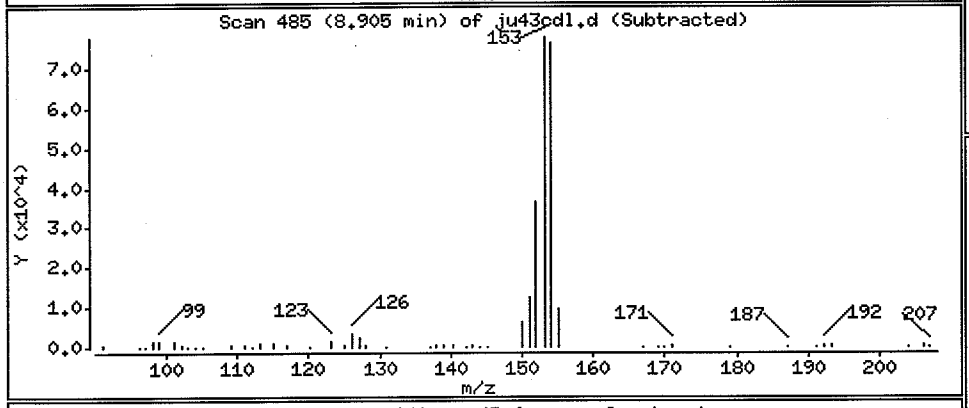
Column phase: ZB-5

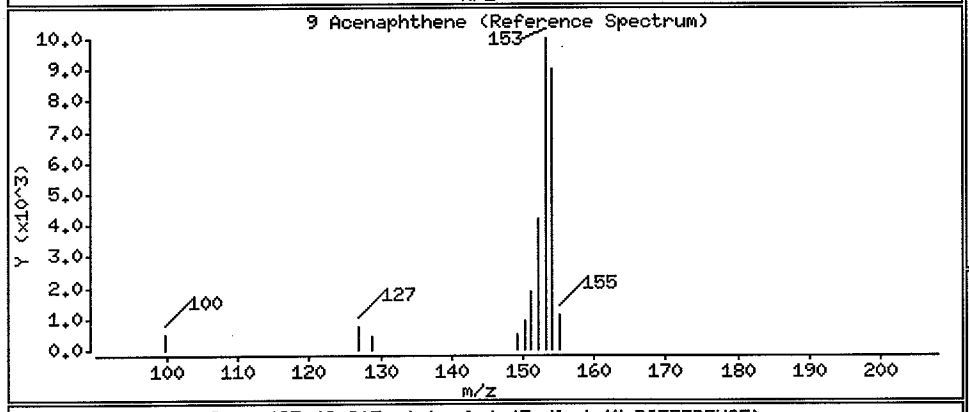
Column diameter: 0.25

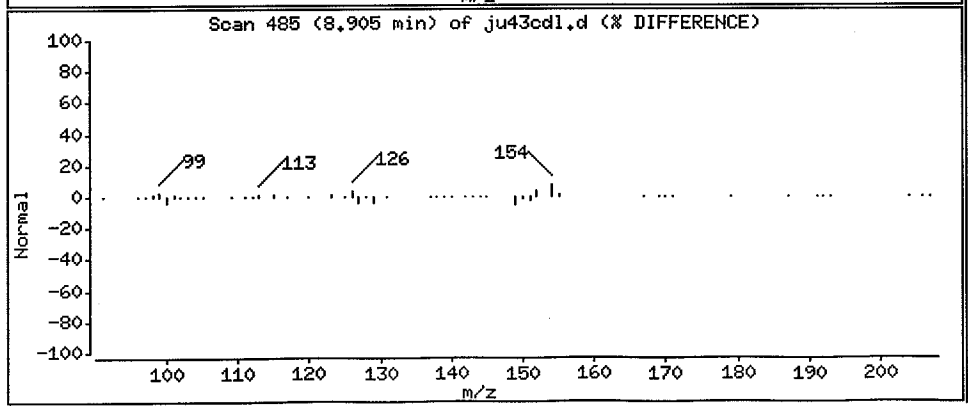
9 Acenaphthene

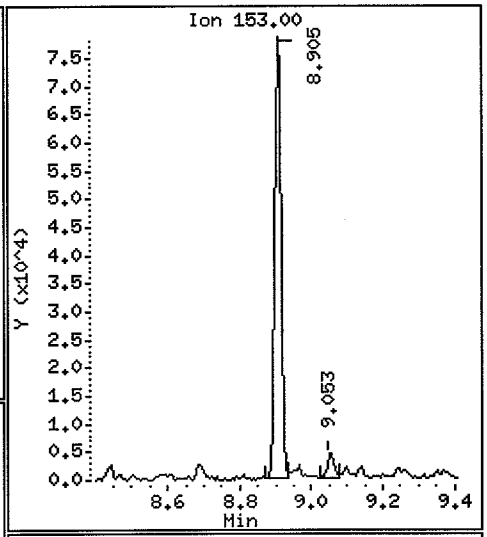
Concentration: 1102 ug/kg

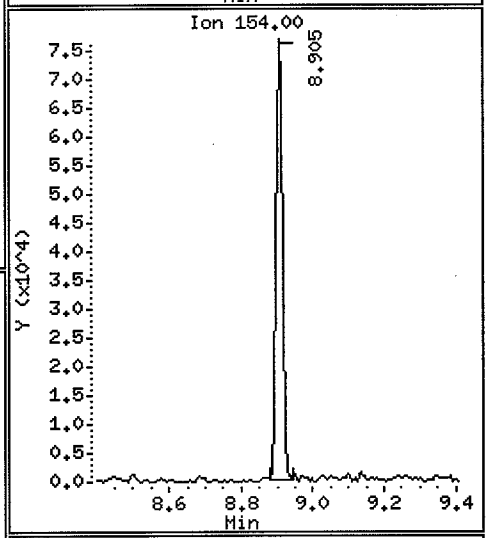


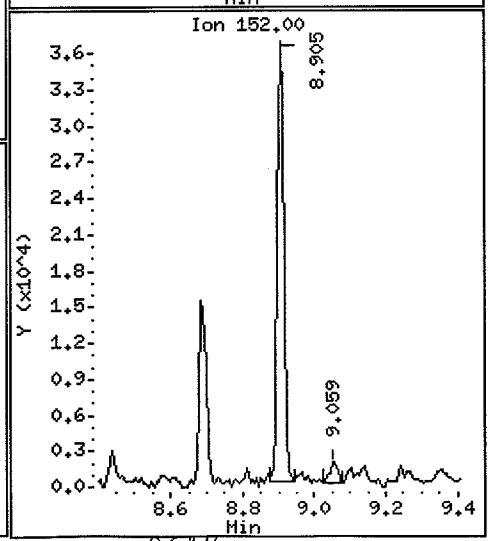












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

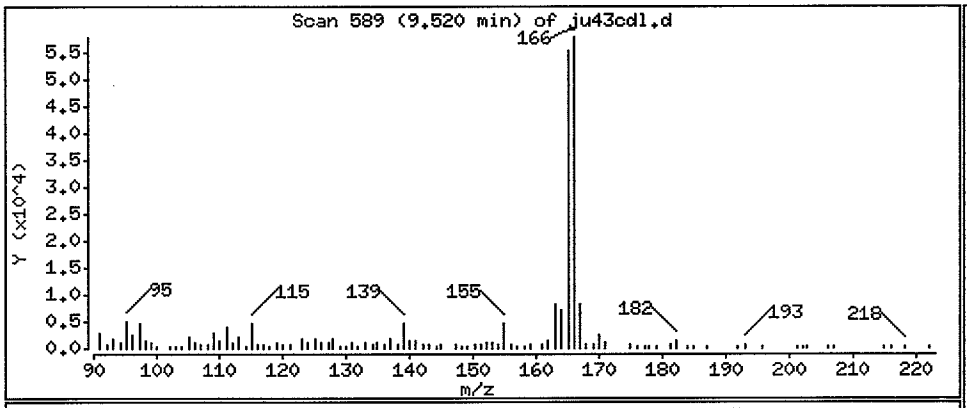
Operator: VTS

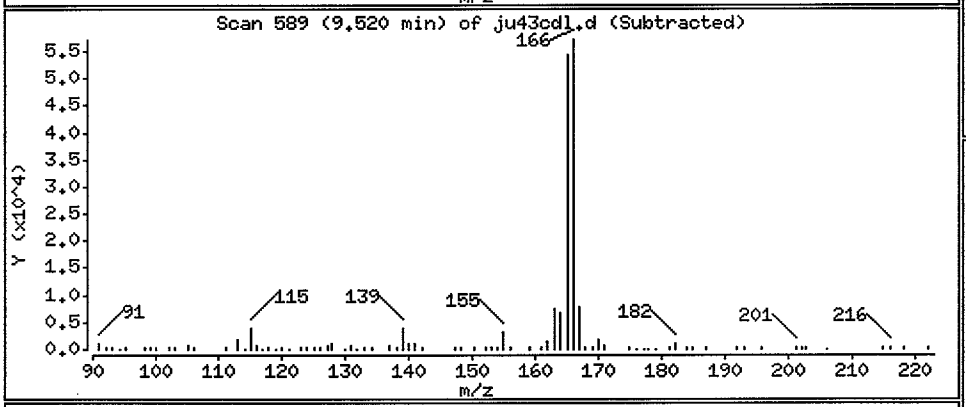
Column phase: ZB-5

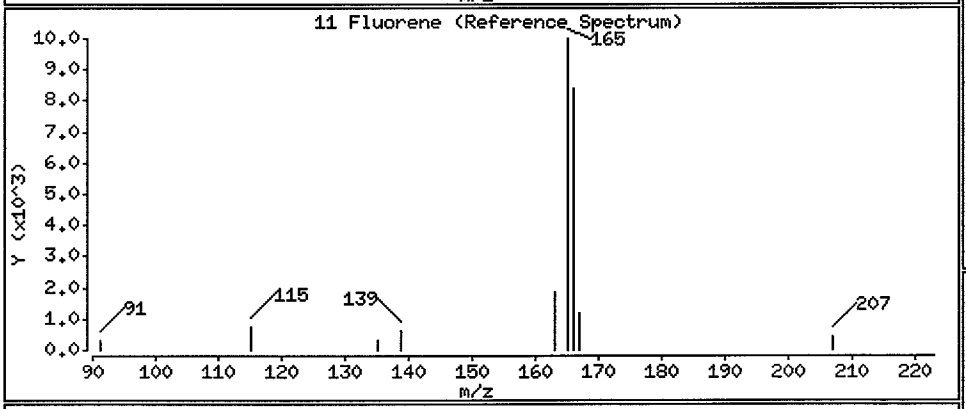
Column diameter: 0.25

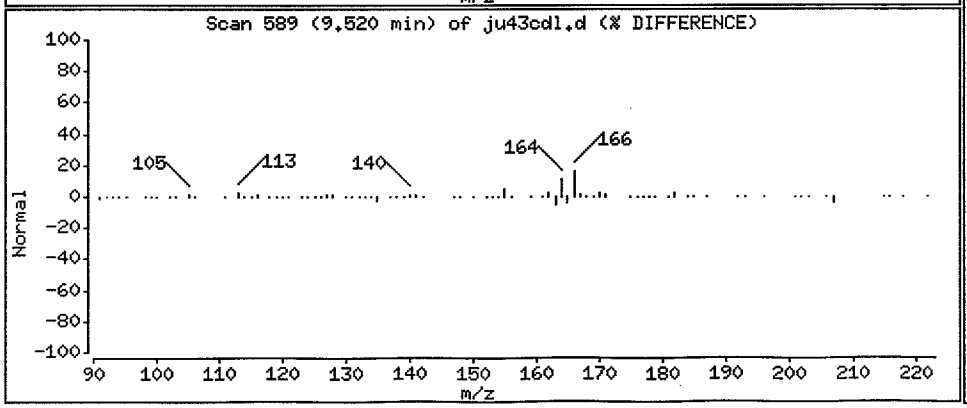
11 Fluorene

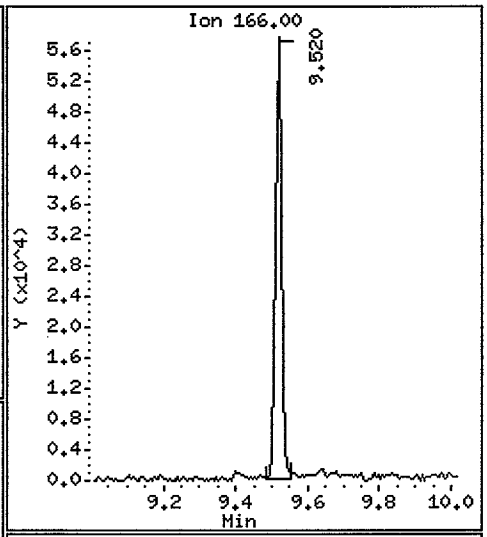
Concentration: 743.7 ug/kg

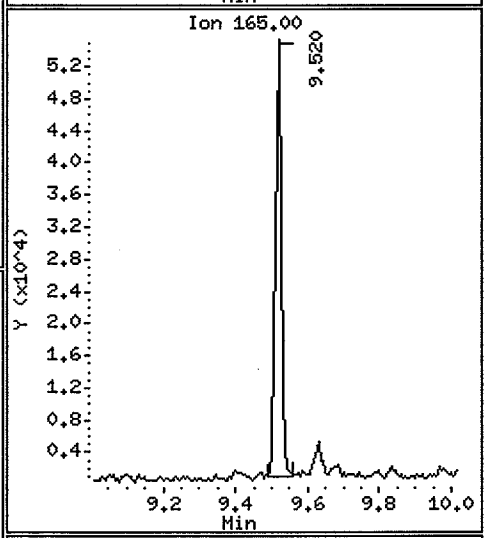


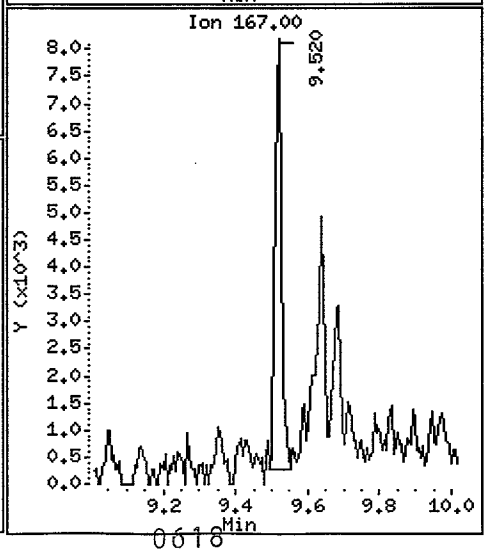












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

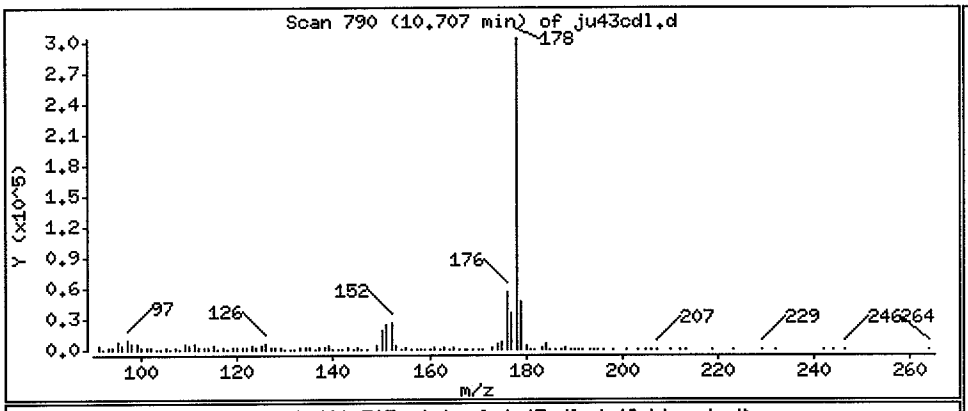
Operator: VTS

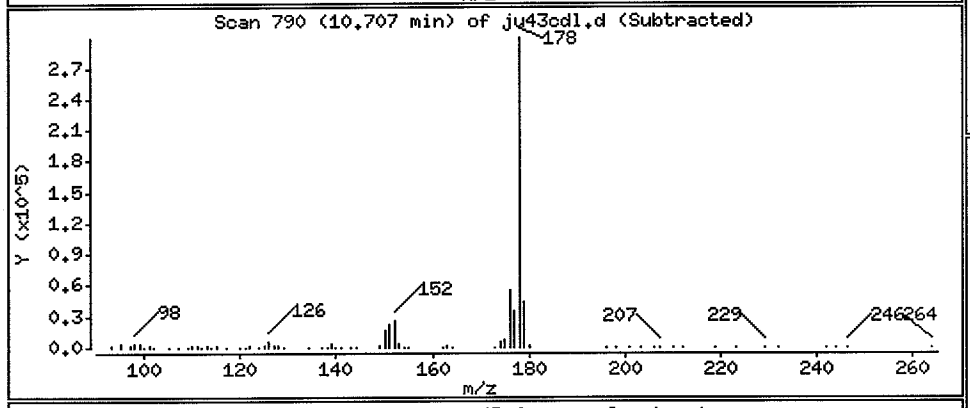
Column phase: ZB-5

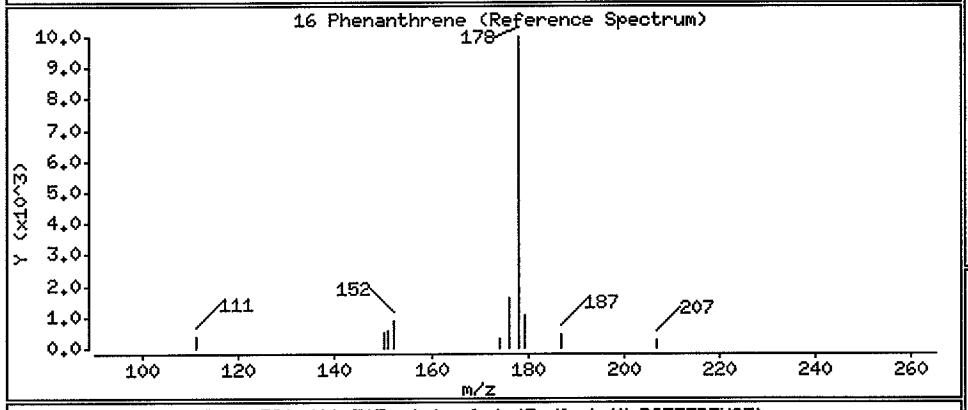
Column diameter: 0.25

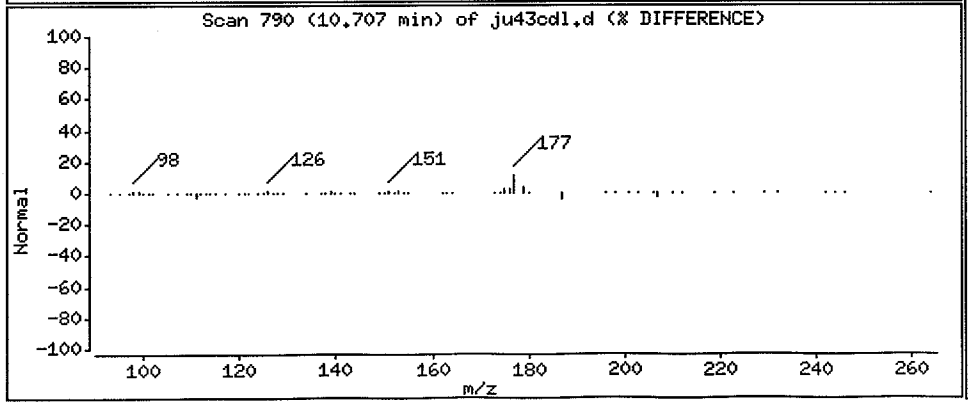
16 Phenanthrene

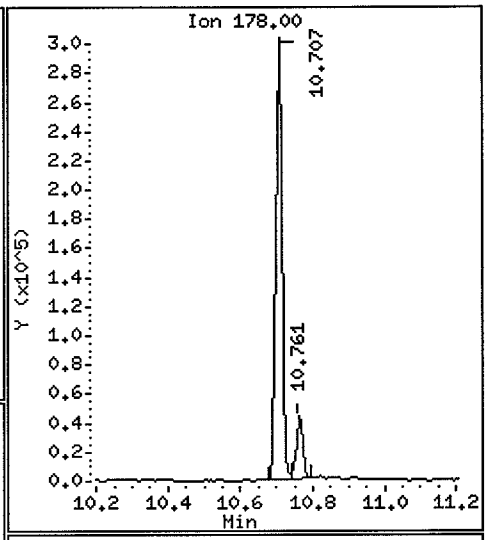
Concentration: 2989 ug/kg

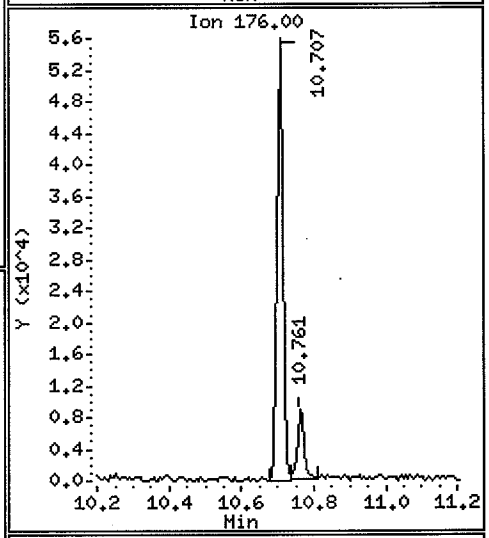


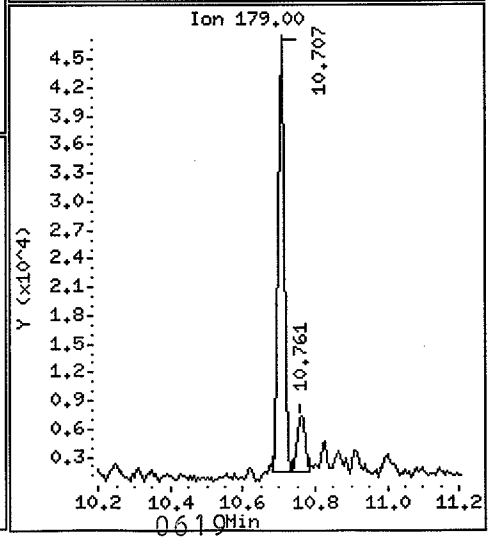












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

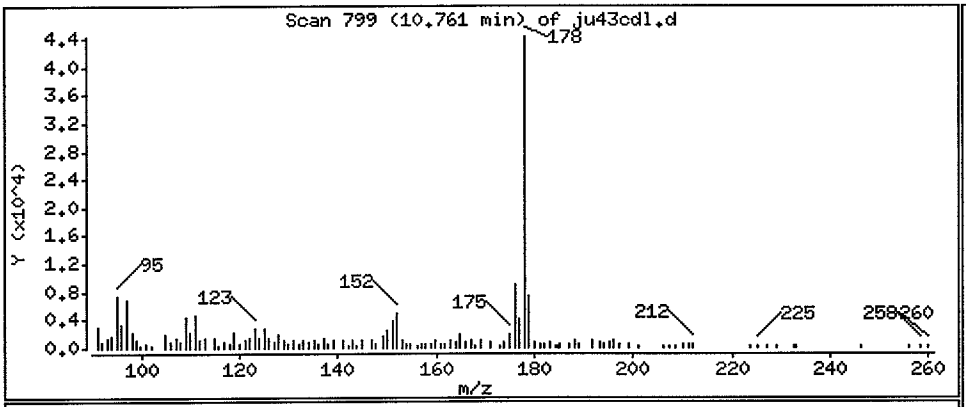
Operator: VTS

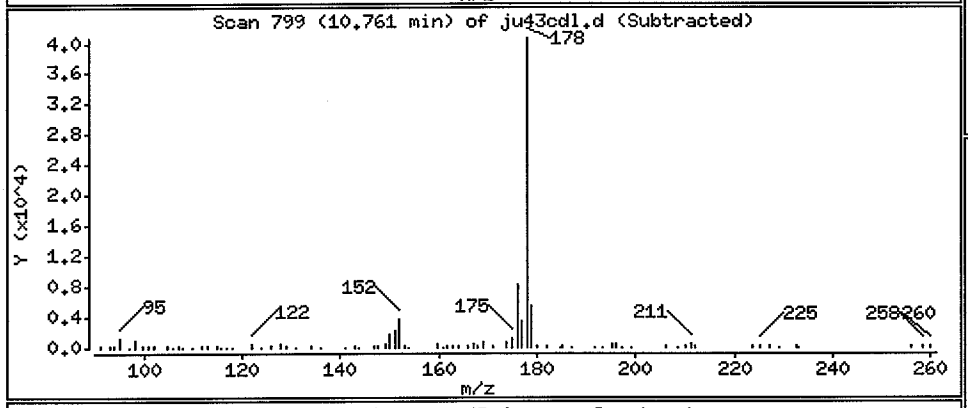
Column phase: ZB-5

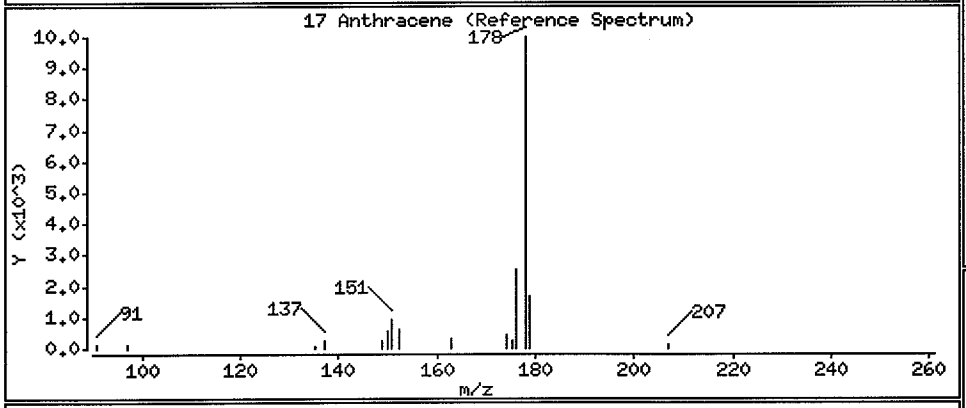
Column diameter: 0.25

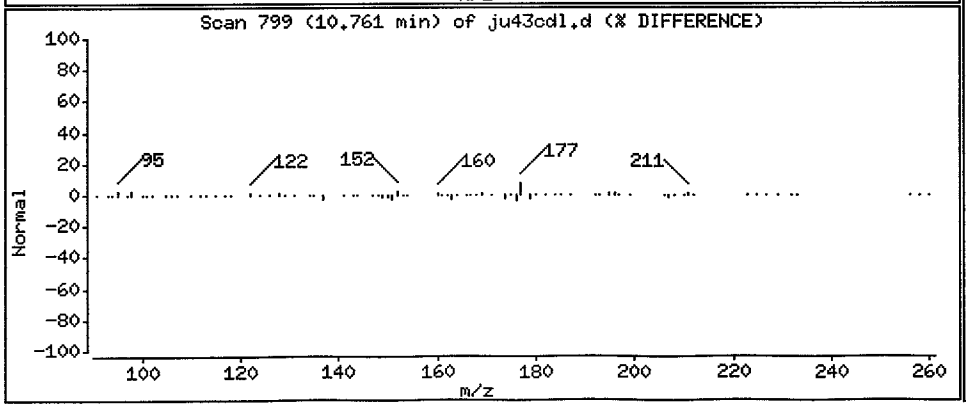
17 Anthracene

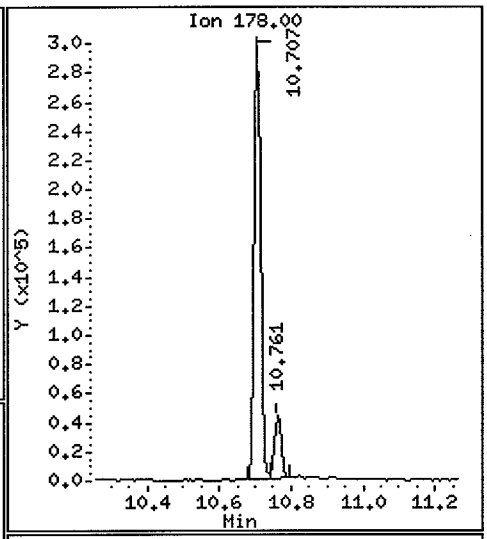
Concentration: 456.9 ug/kg

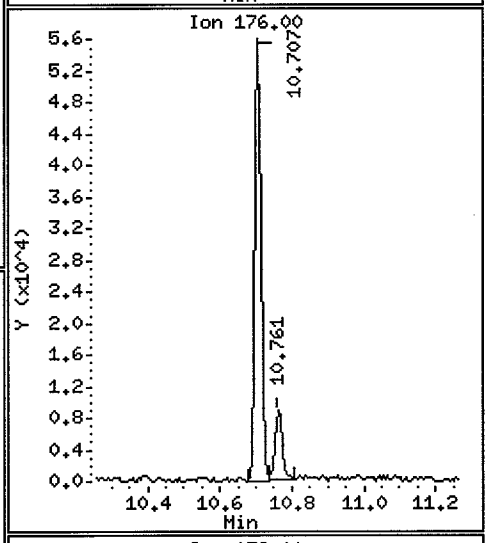


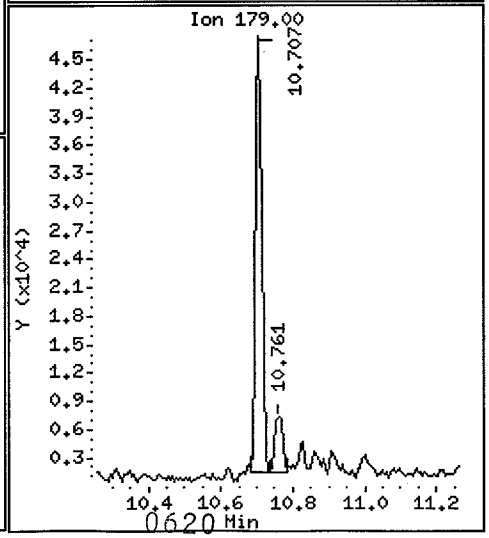












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

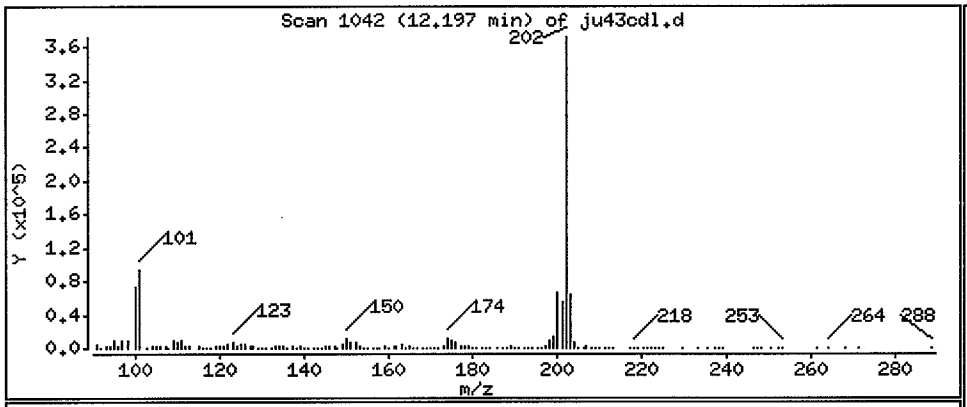
Operator: VTS

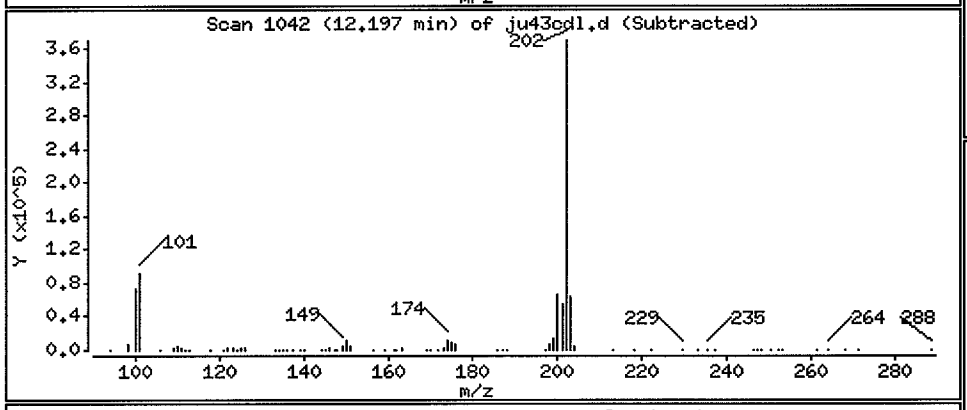
Column phase: ZB-5

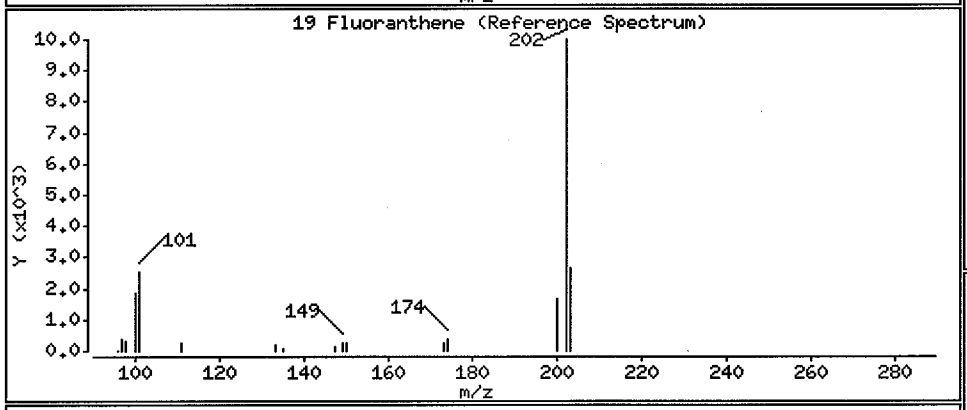
Column diameter: 0.25

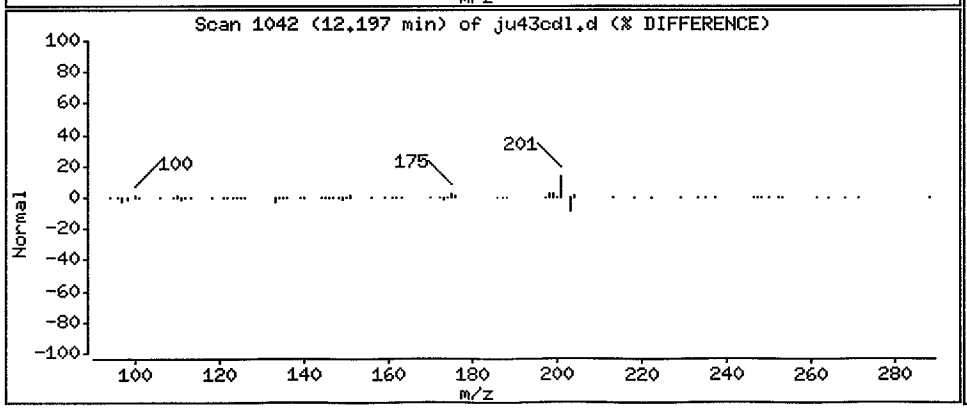
19 Fluoranthene

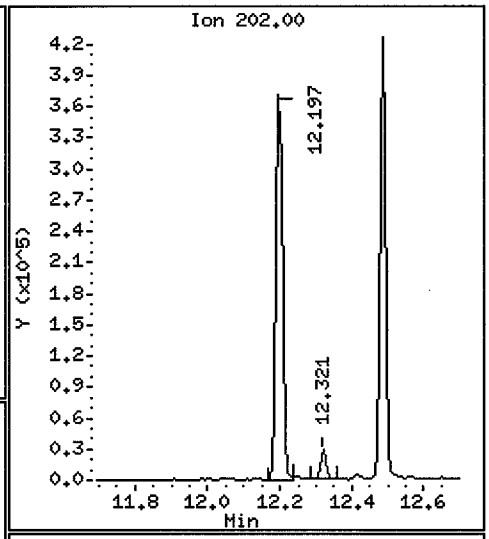
Concentration: 4357 ug/kg

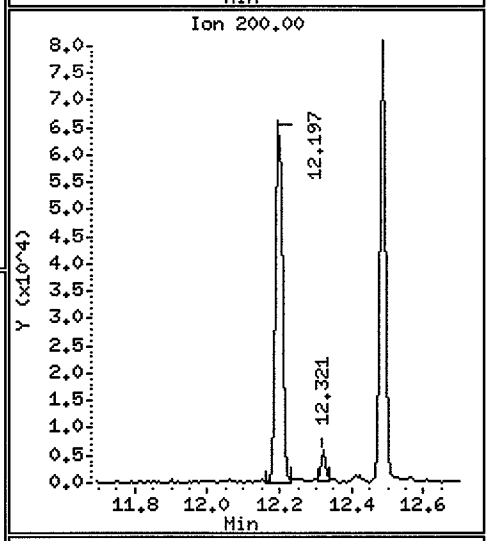


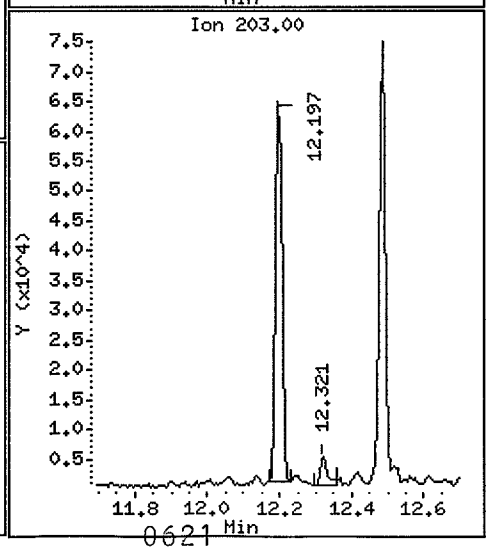












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

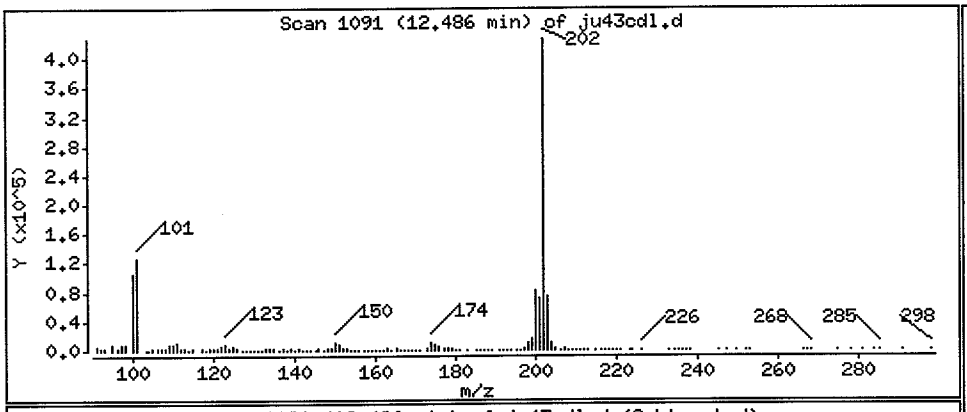
Operator: VTS

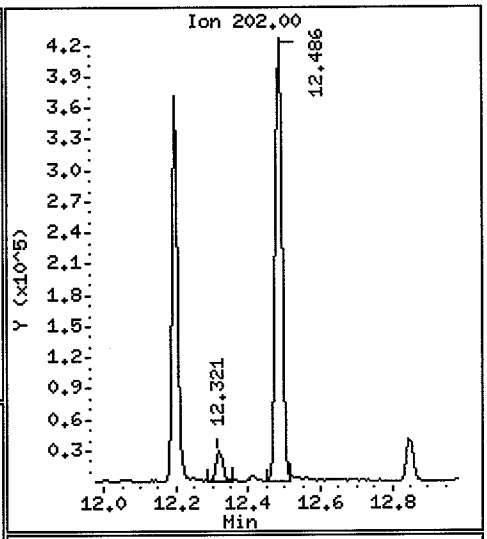
Column phase: ZB-5

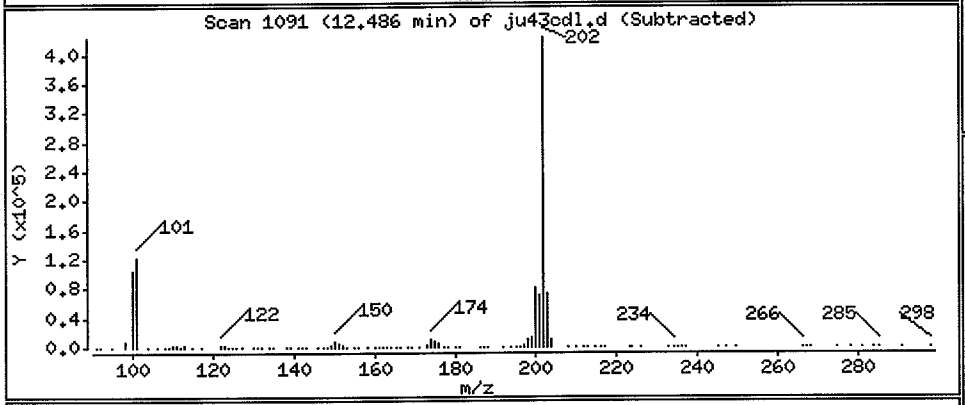
Column diameter: 0.25

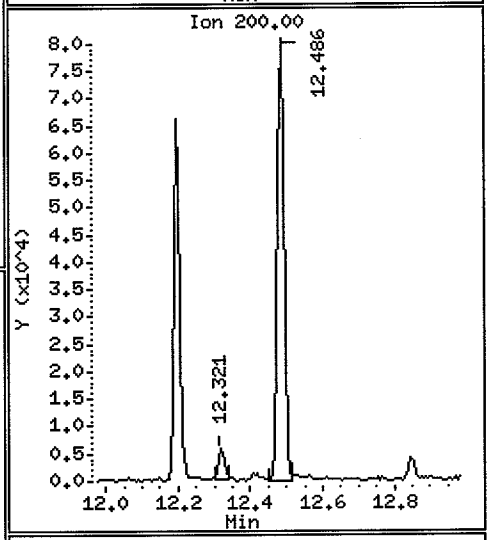
20 Pyrene

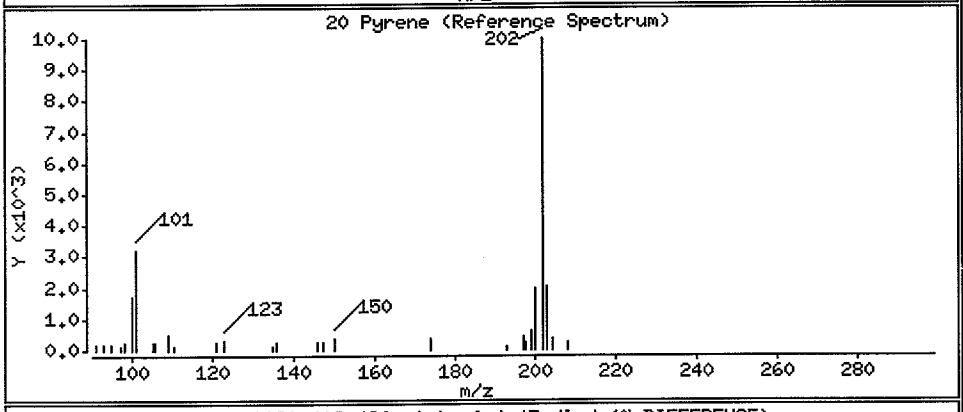
Concentration: 4321 ug/kg

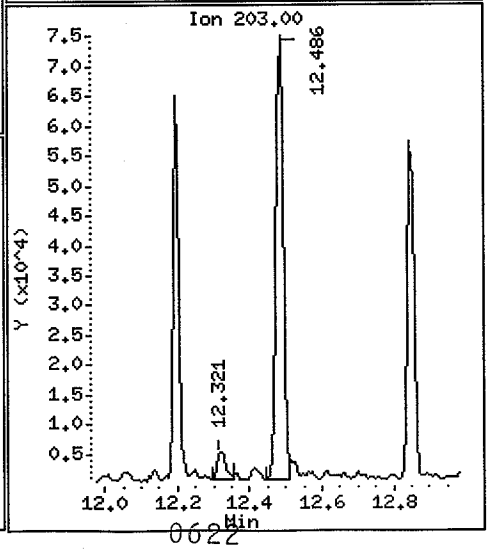


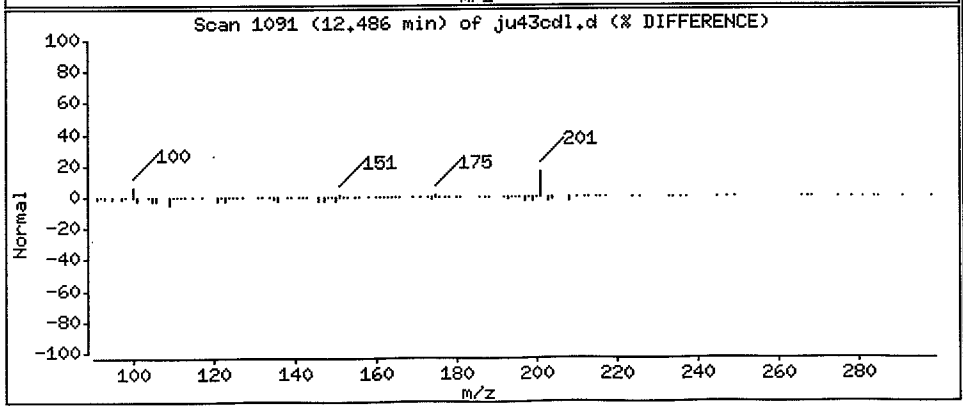












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

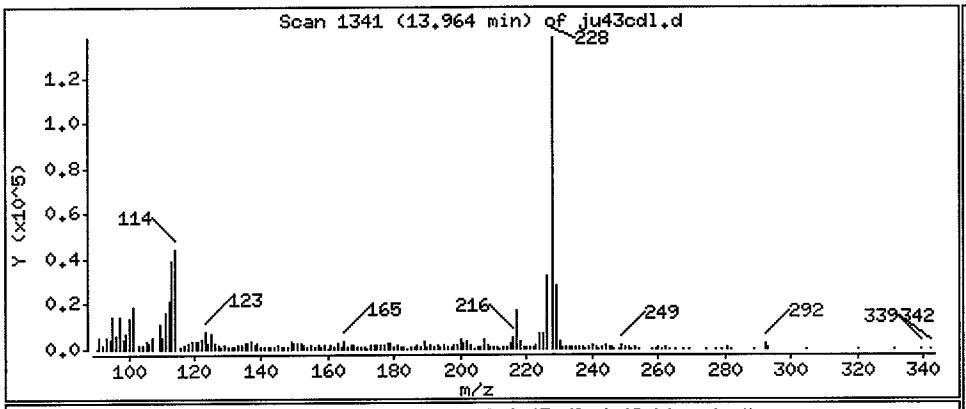
Operator: VTS

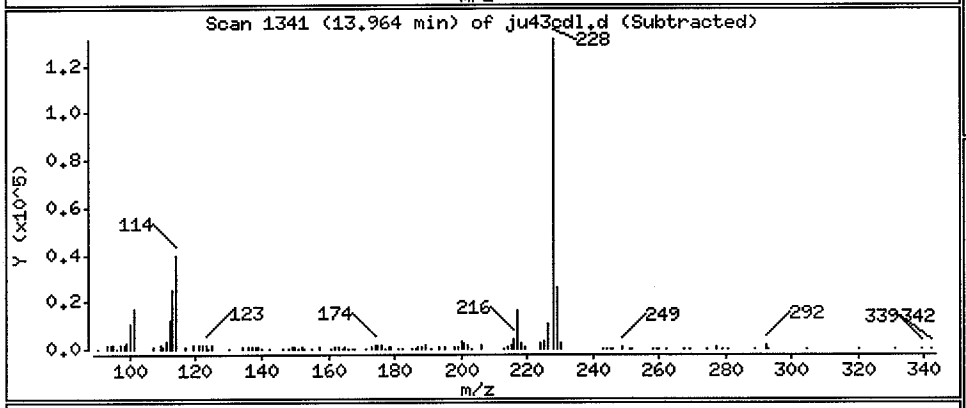
Column phase: ZB-5

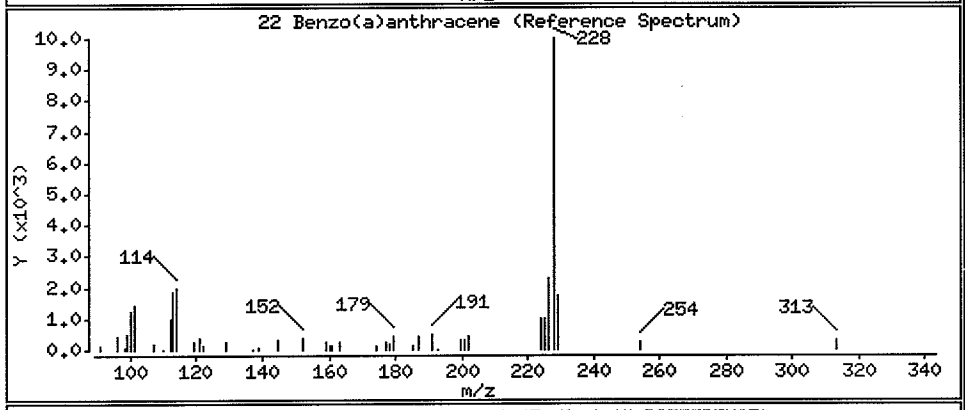
Column diameter: 0.25

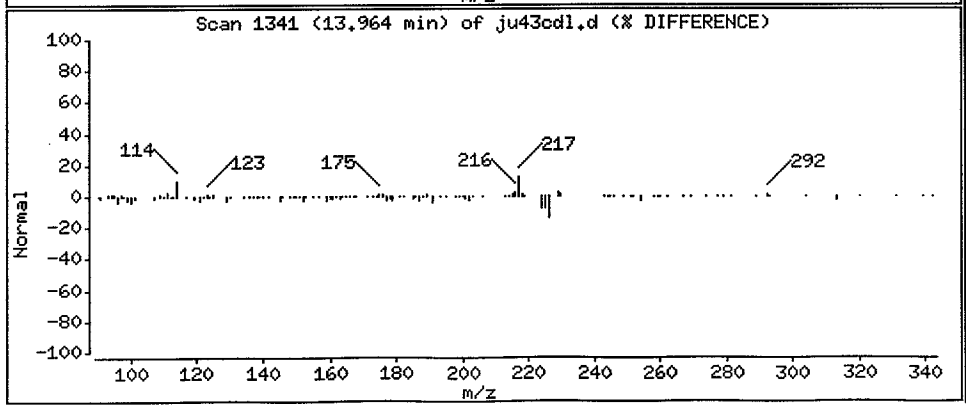
22 Benzo(a)anthracene

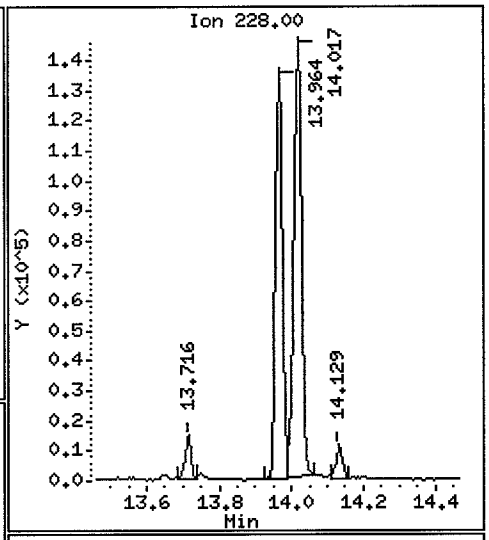
Concentration: 1701 ug/kg

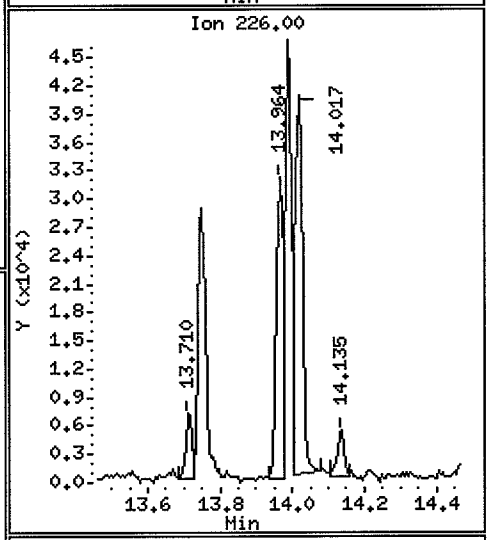


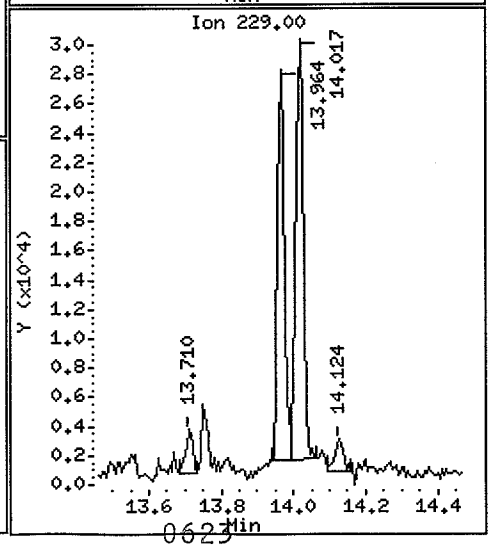












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

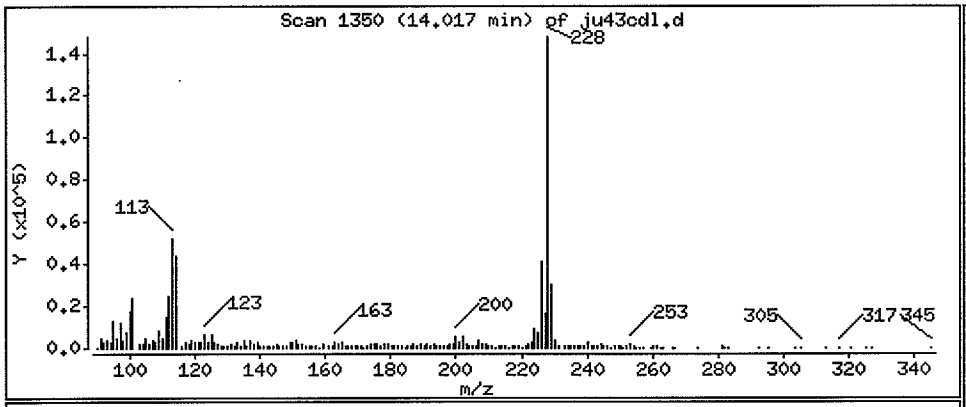
Operator: VTS

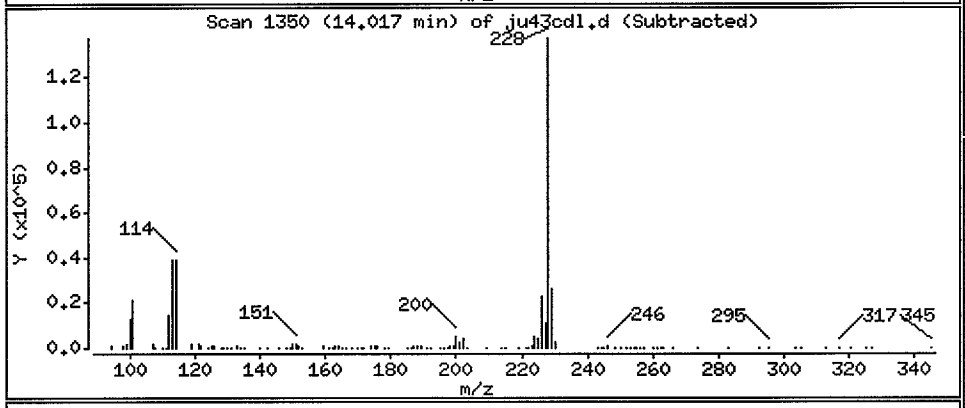
Column phase: ZB-5

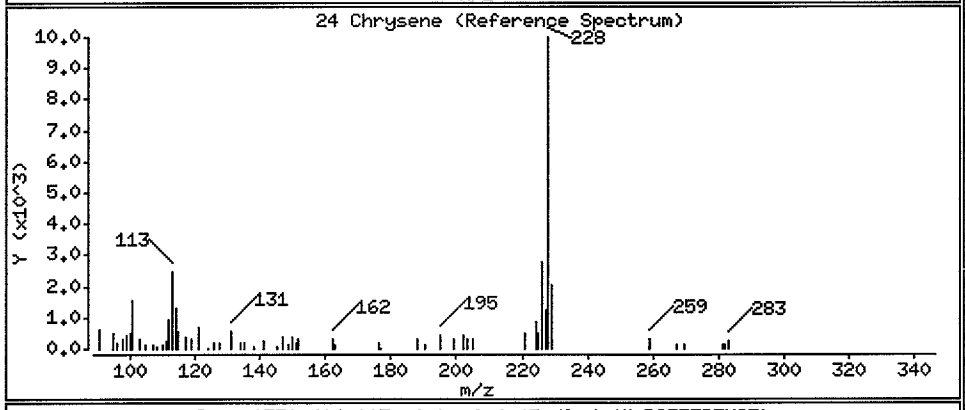
Column diameter: 0.25

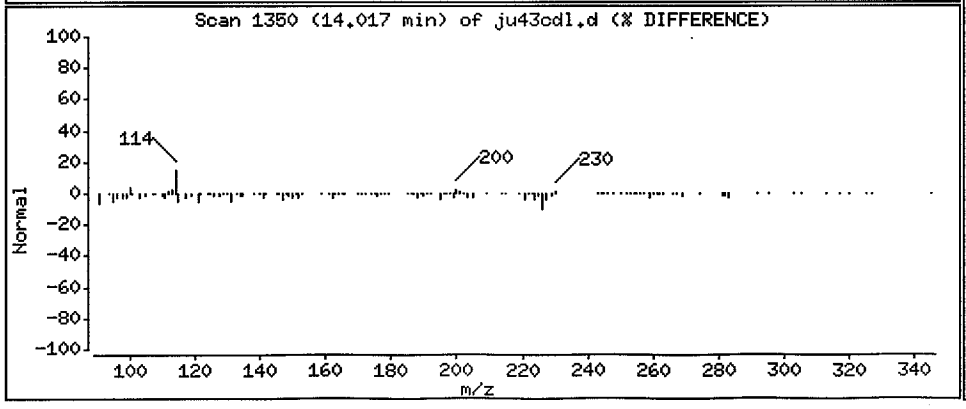
24 Chrysene

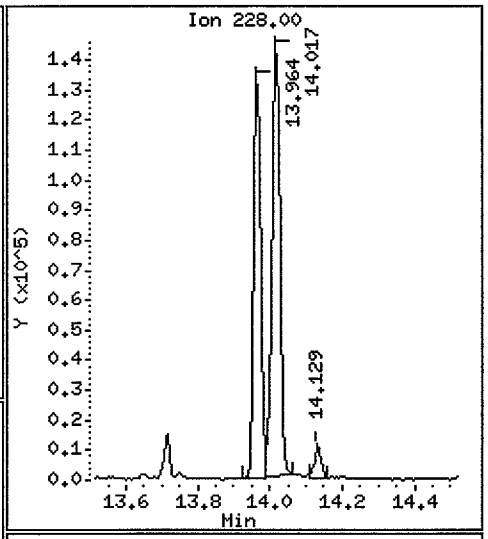
Concentration: 2214 ug/kg

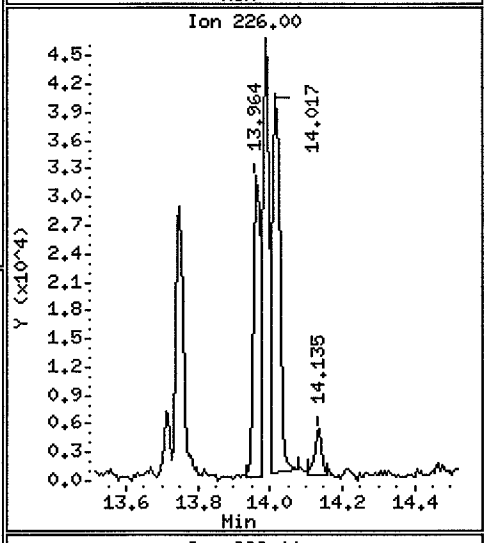


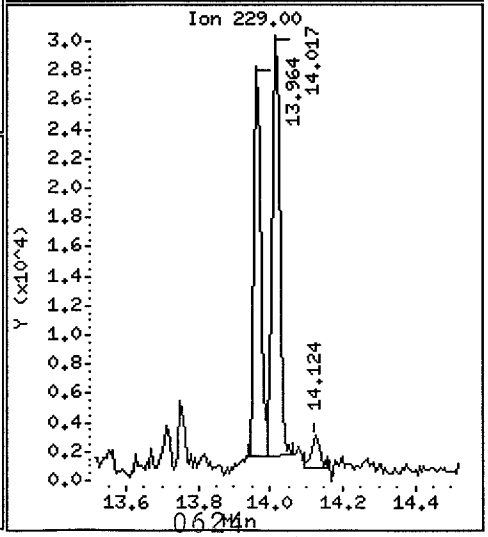












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

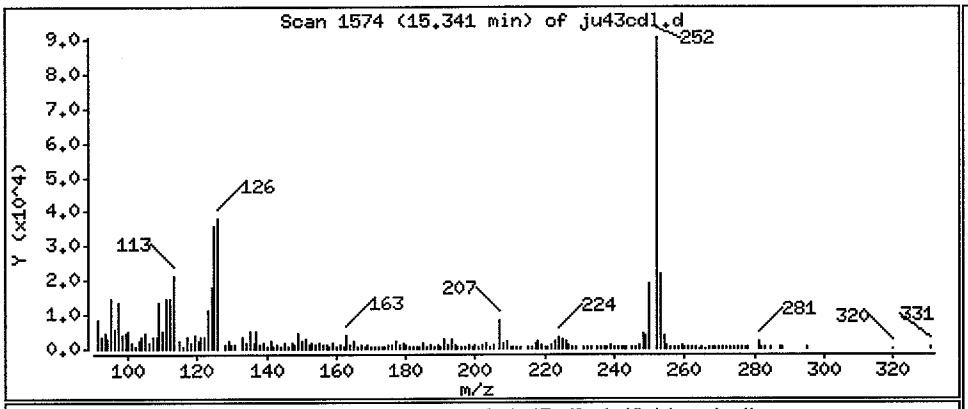
Operator: VTS

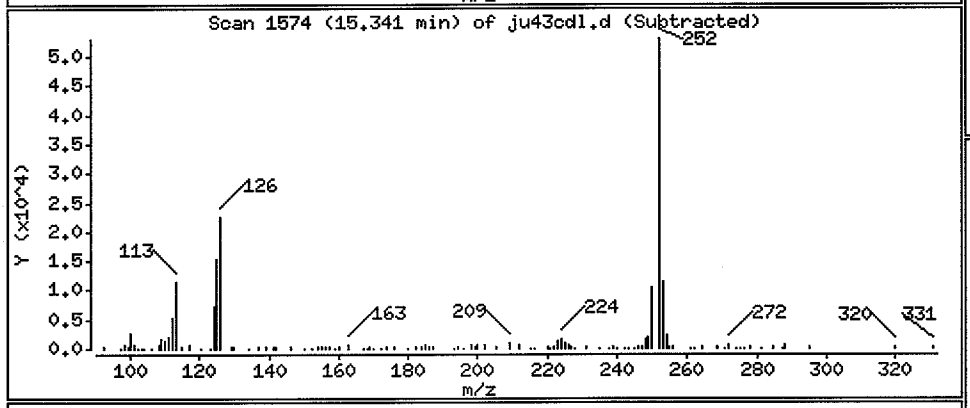
Column phase: ZB-5

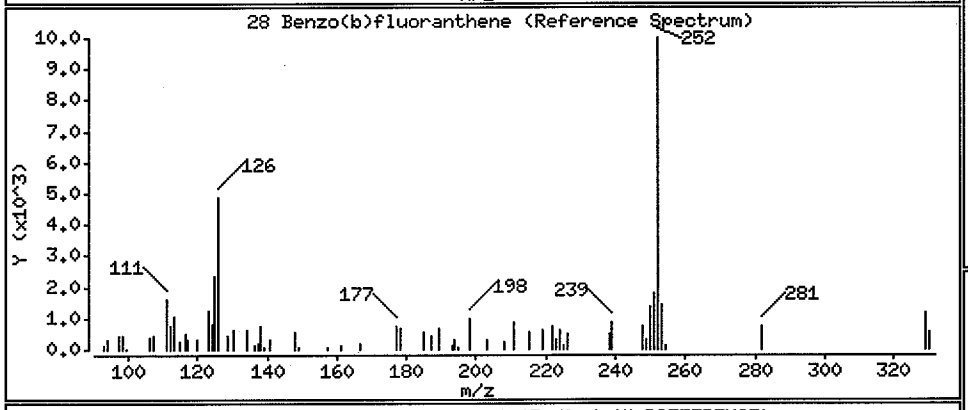
Column diameter: 0.25

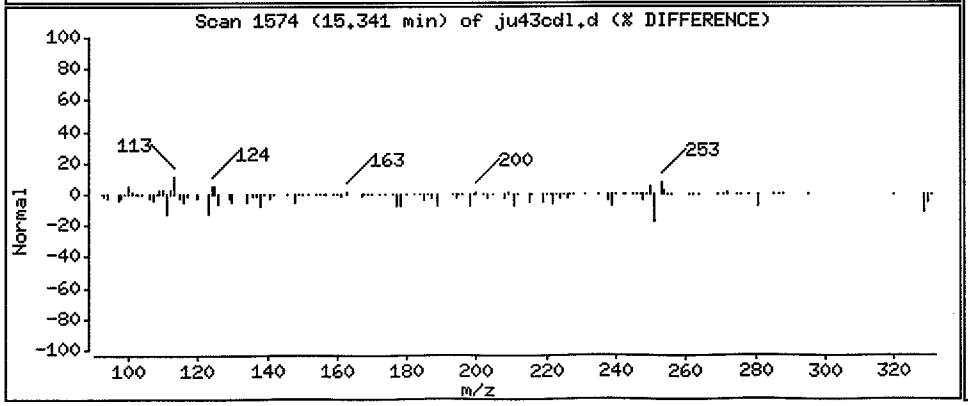
28 Benzo(b)fluoranthene

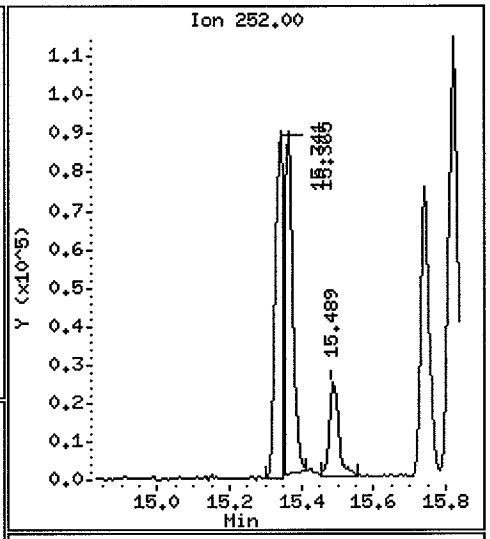
Concentration: 1347 ug/kg

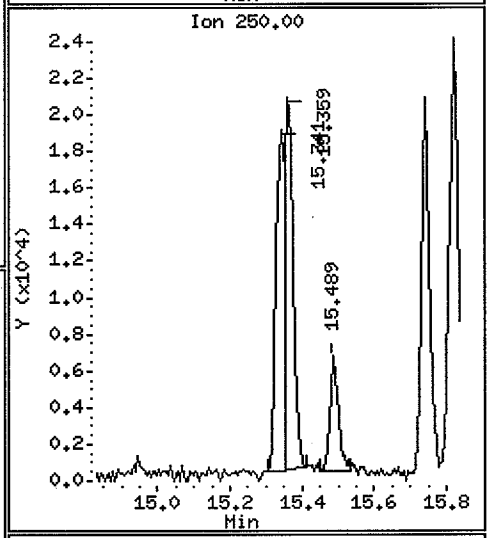


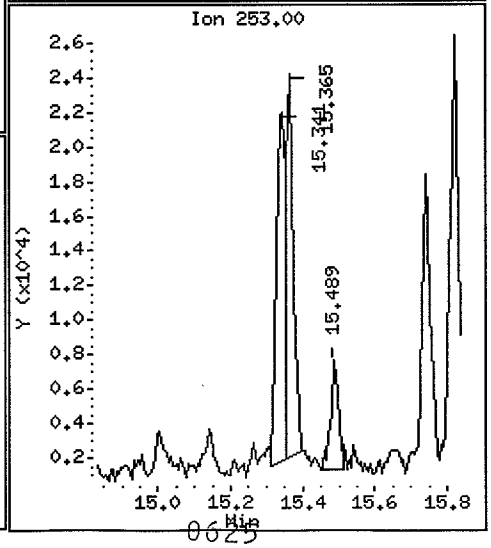












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

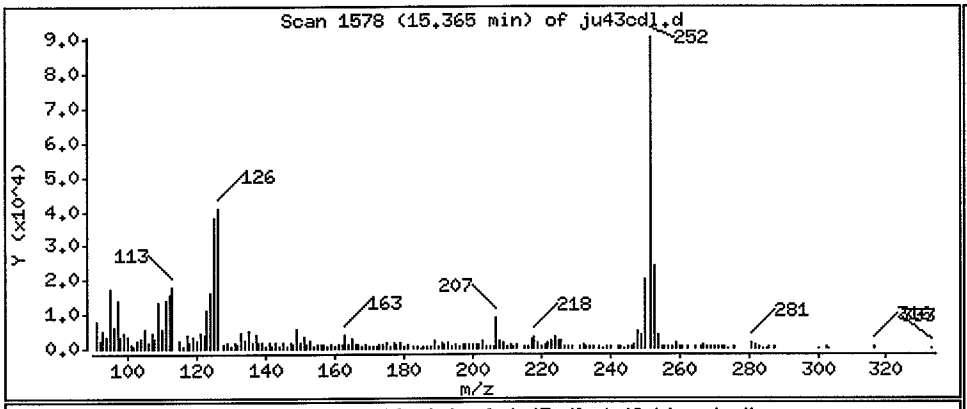
Operator: VTS

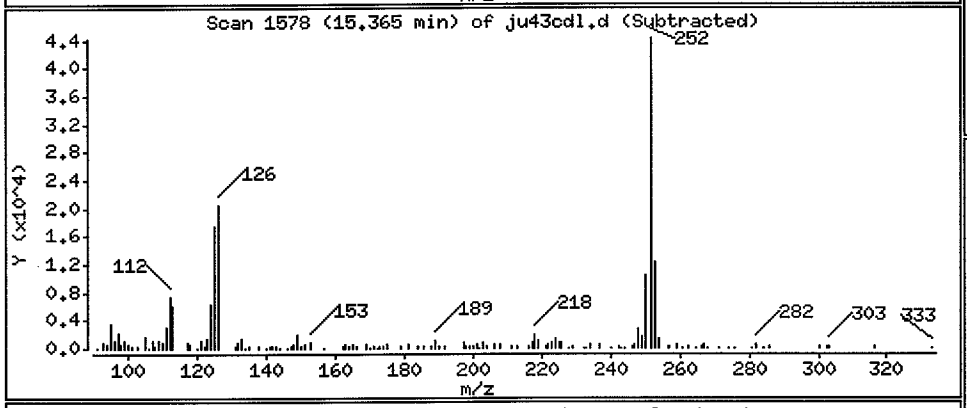
Column phase: ZB-5

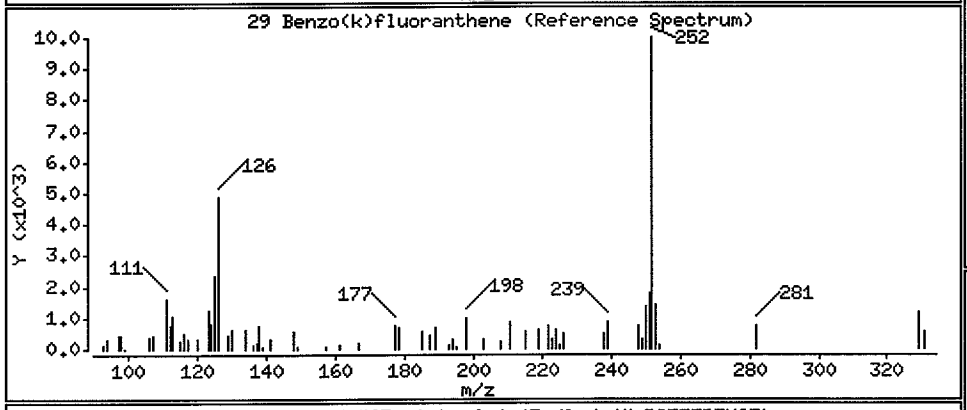
Column diameter: 0.25

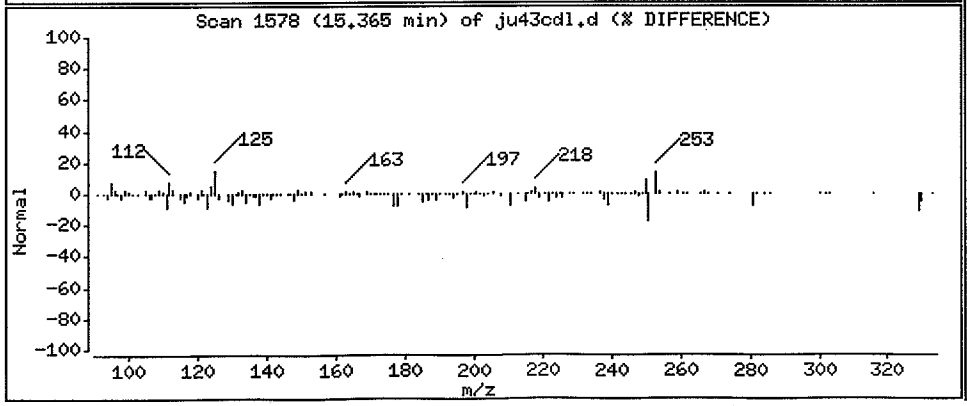
29 Benzo(k)fluoranthene

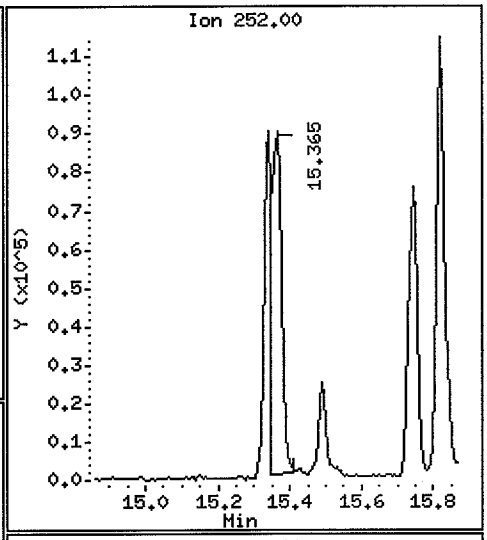
Concentration: 1807 ug/kg

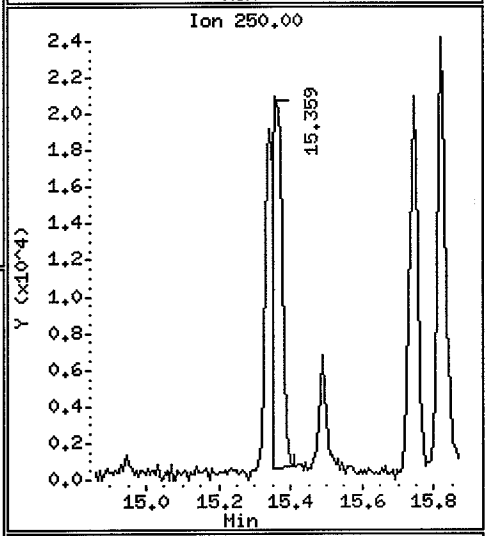


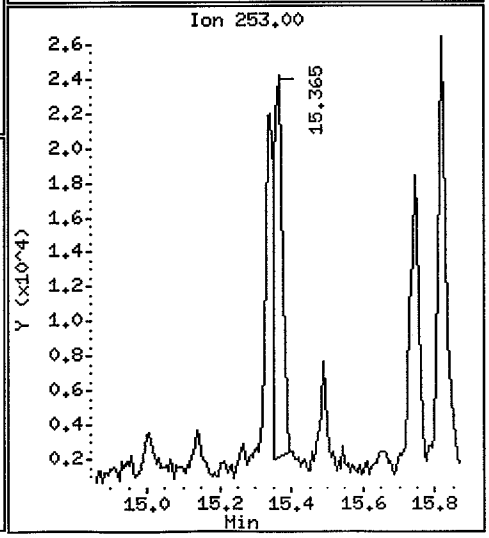












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

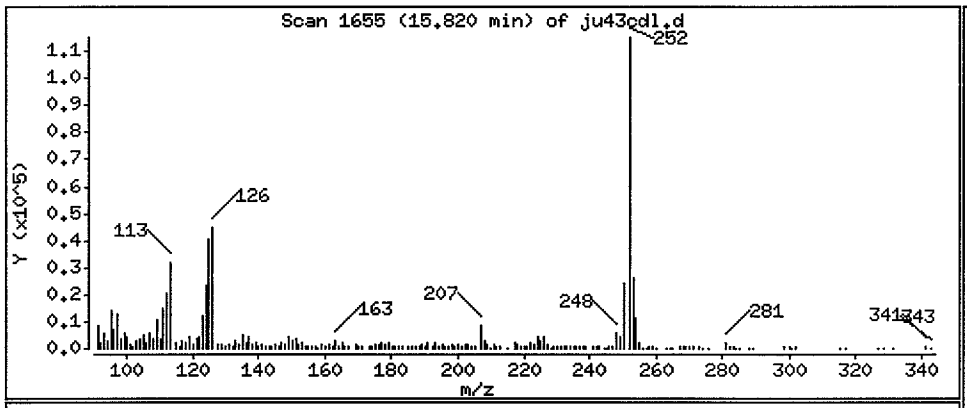
Operator: VTS

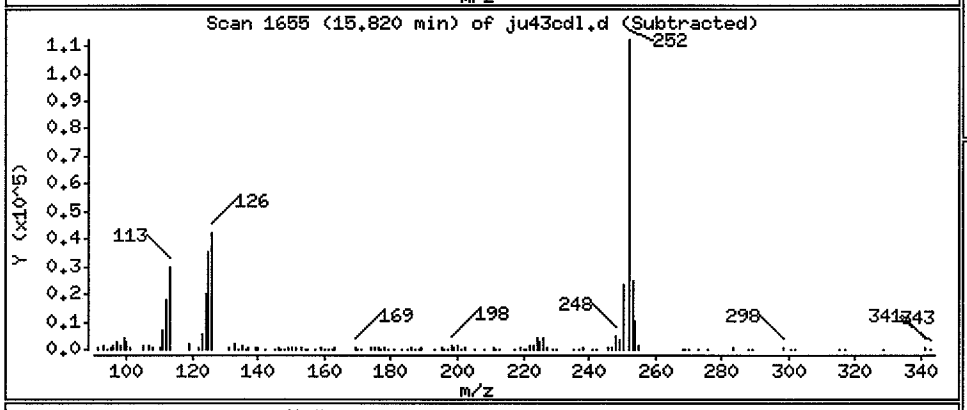
Column phase: ZB-5

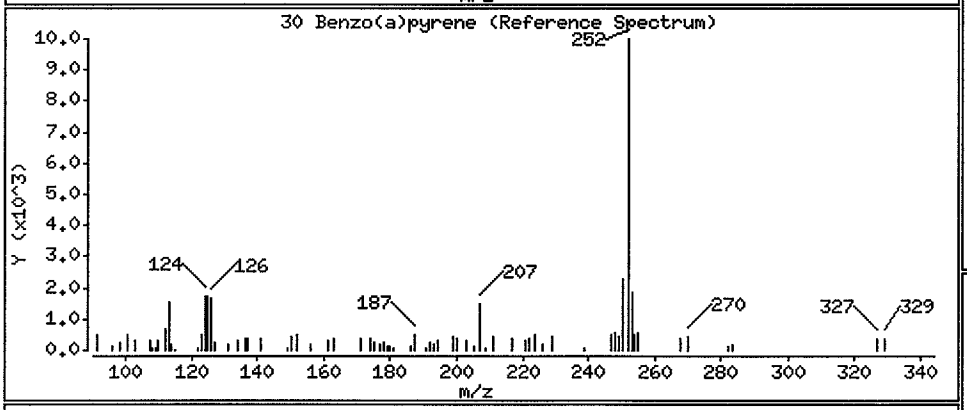
Column diameter: 0.25

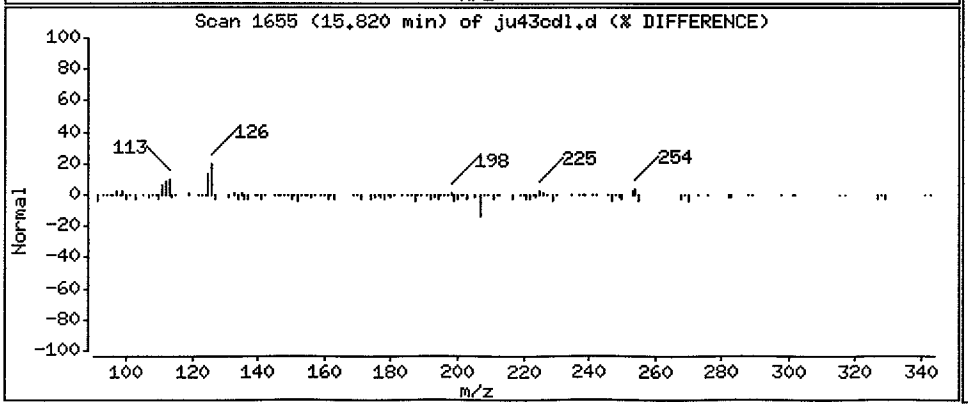
30 Benzo(a)pyrene

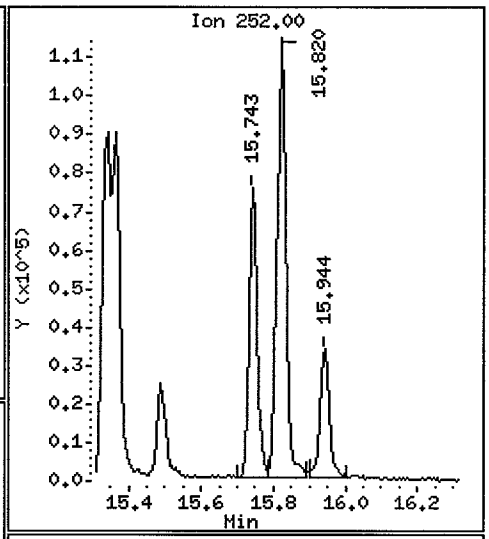
Concentration: 2347 ug/kg

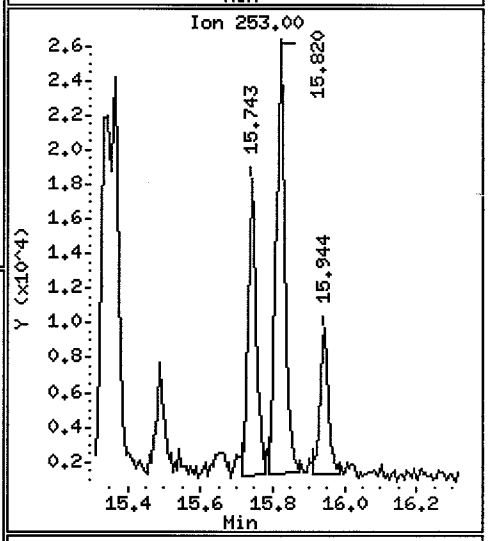


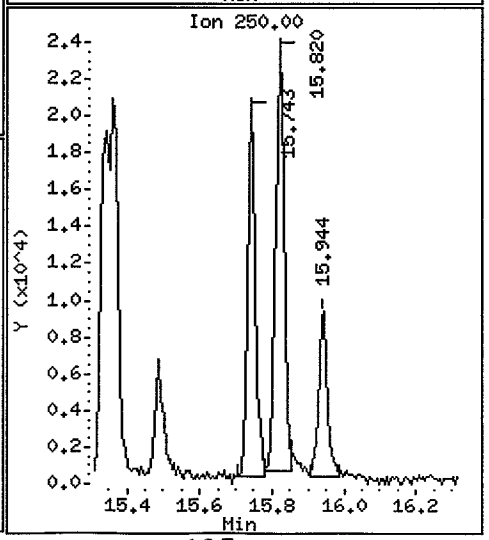












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

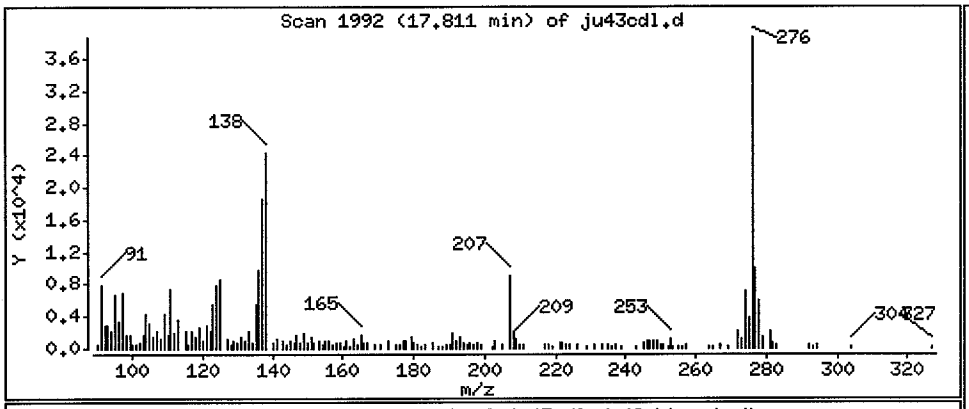
Operator: VTS

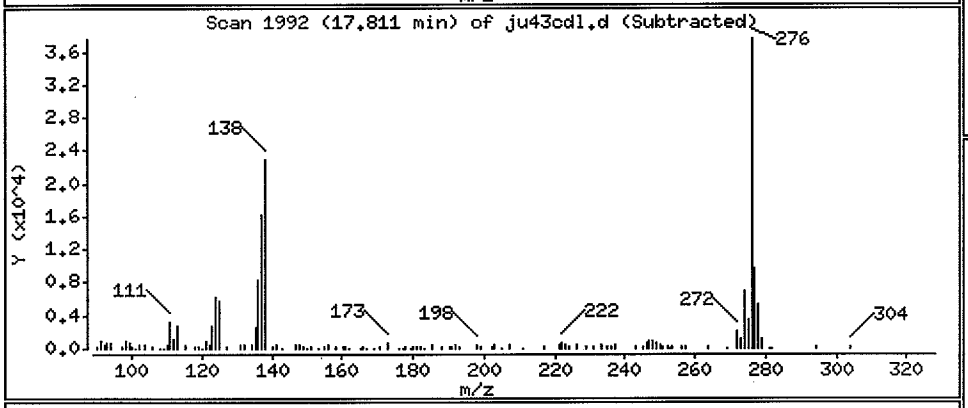
Column phase: ZB-5

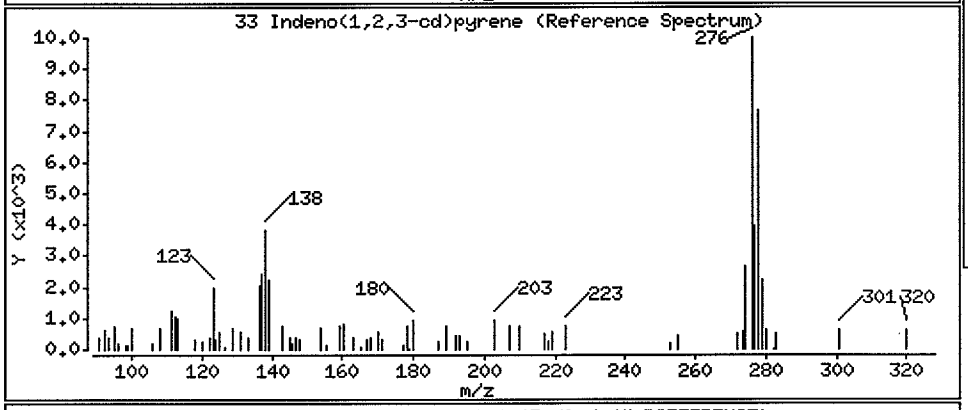
Column diameter: 0.25

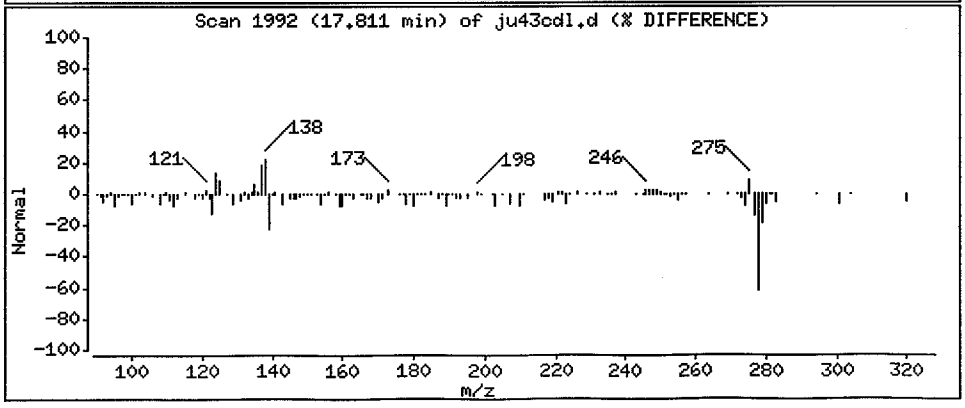
33 Indeno(1,2,3-cd)pyrene

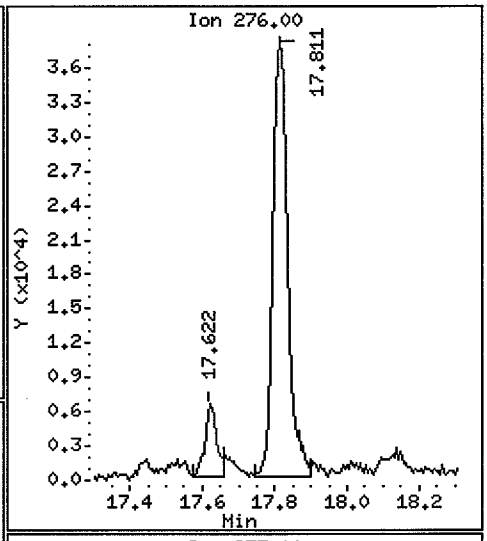
Concentration: 1190 ug/kg

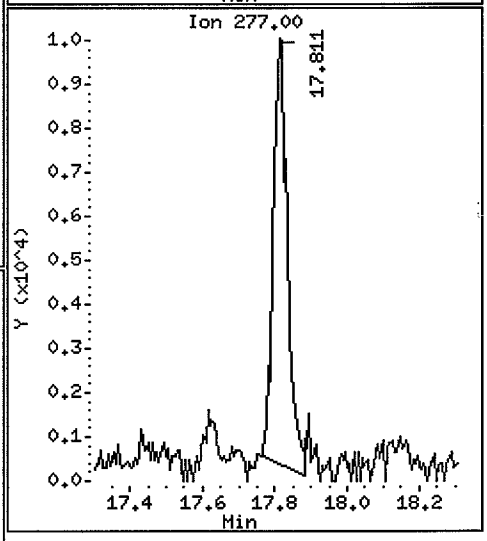












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

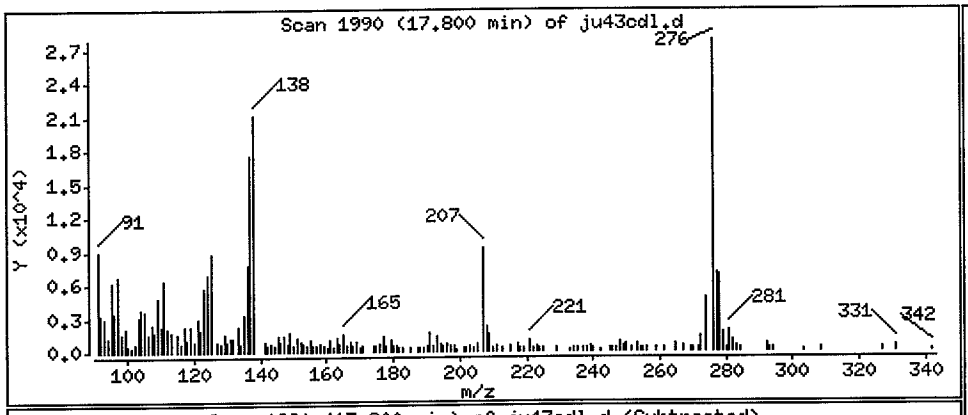
Operator: VTS

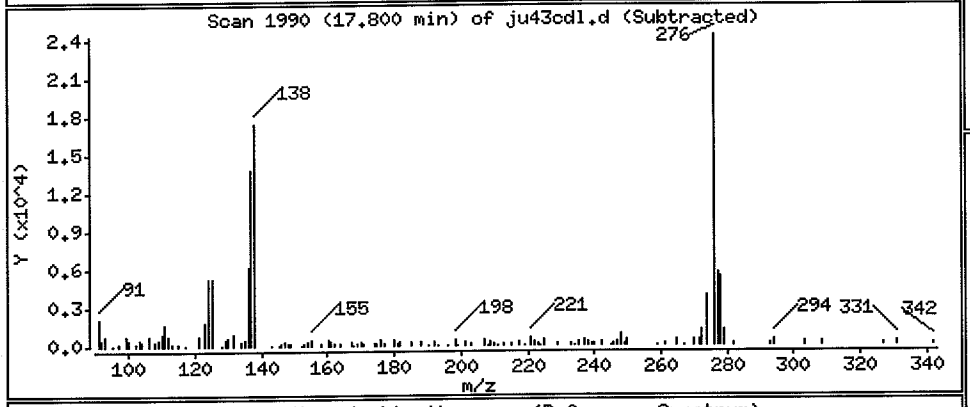
Column phase: ZB-5

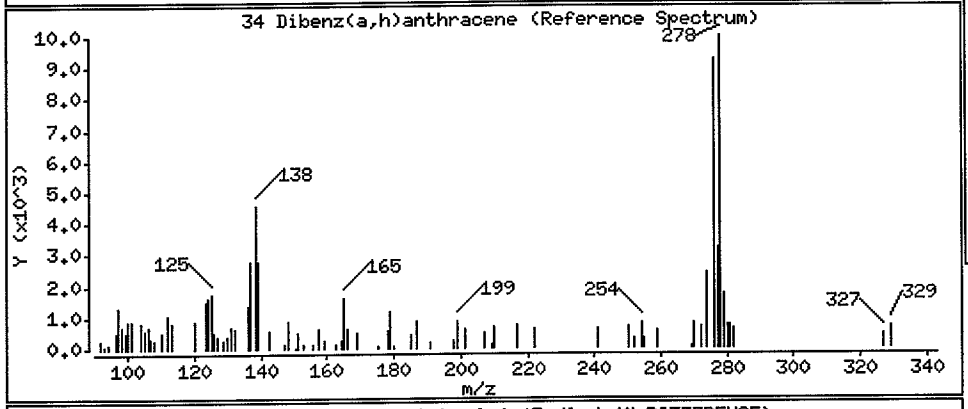
Column diameter: 0.25

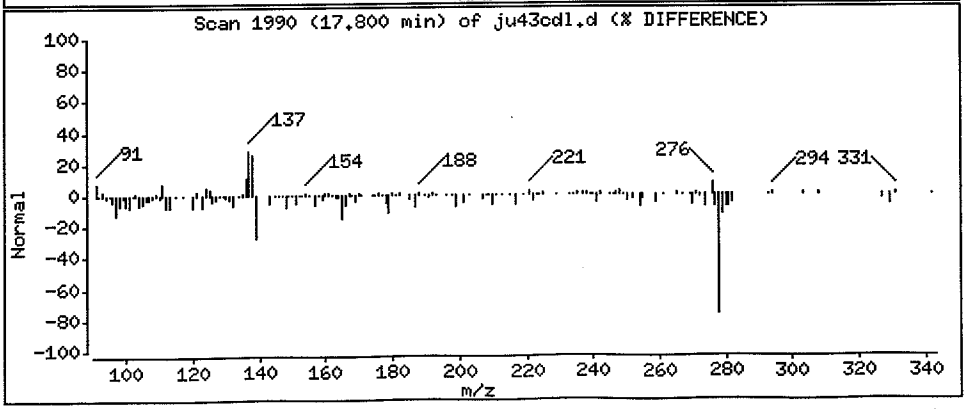
34 Dibenz(a,h)anthracene

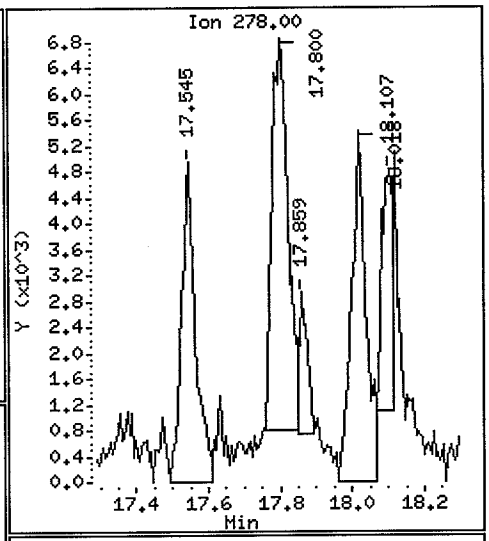
Concentration: 259.1 ug/kg

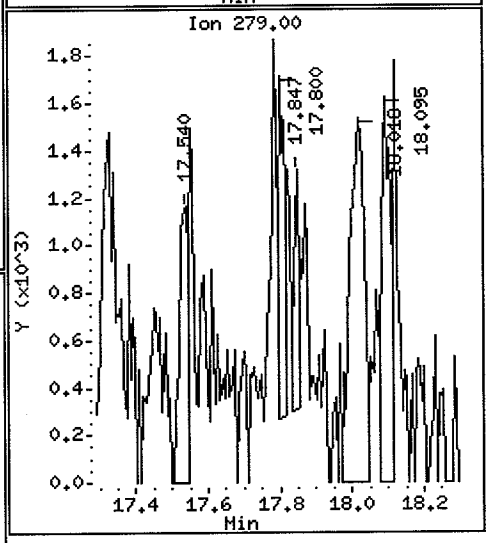












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

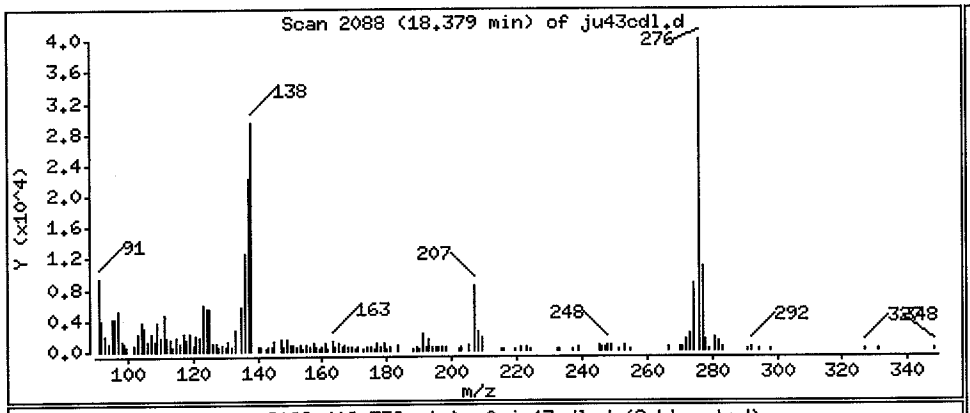
Operator: VTS

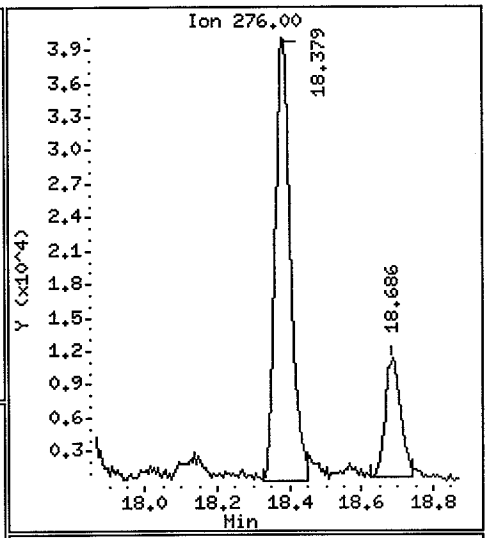
Column phase: ZB-5

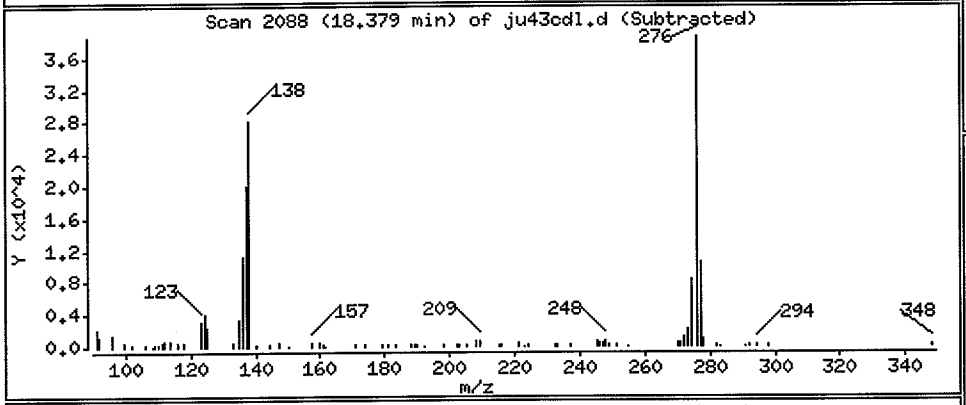
Column diameter: 0.25

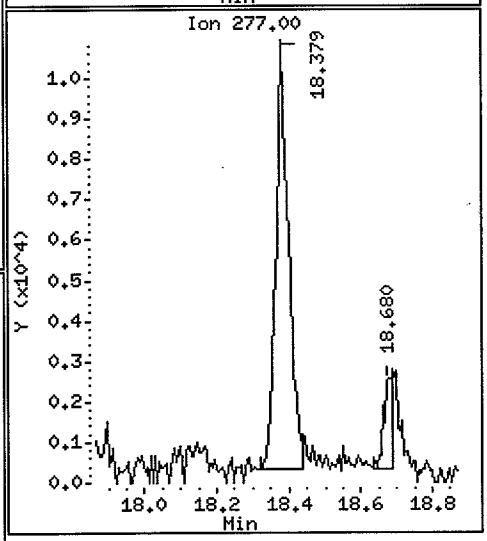
35 Benzo(g,h,i)perylene

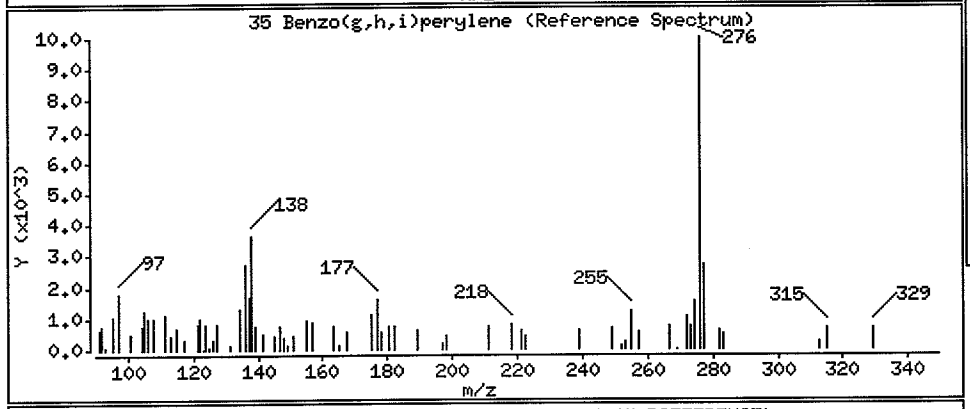
Concentration: 1502 ug/kg

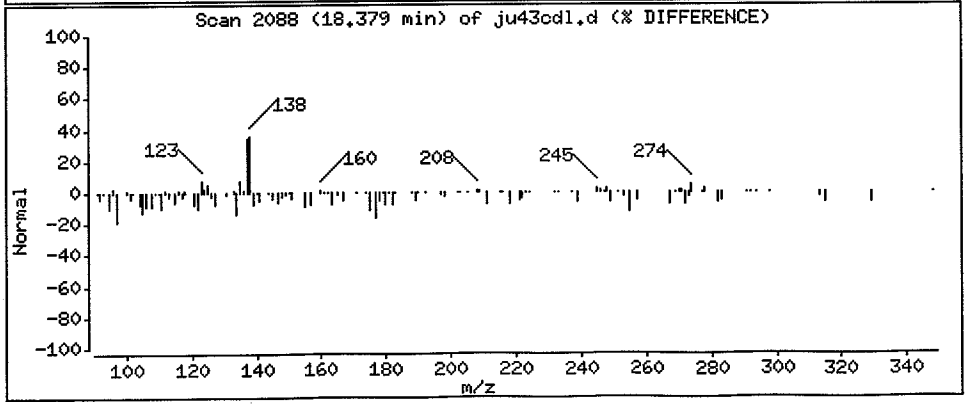












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

Operator: VTS

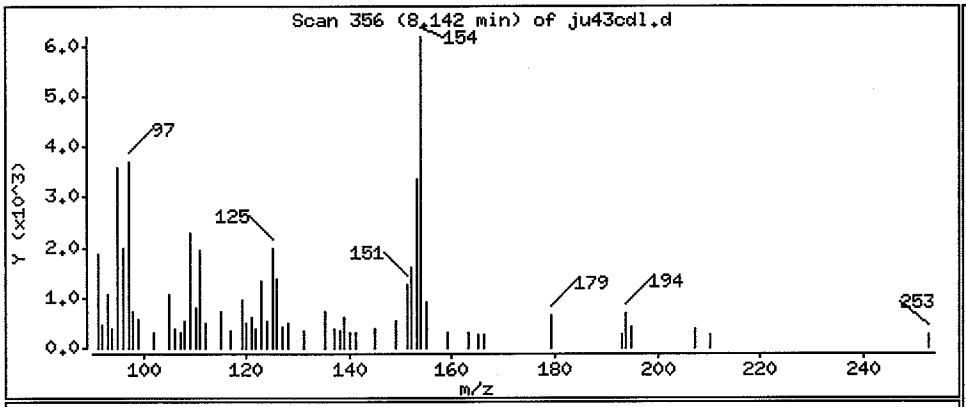
Column phase: ZB-5

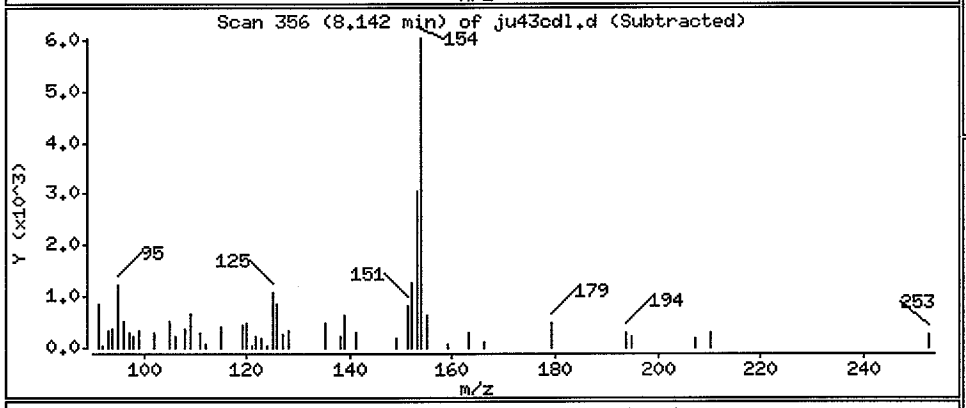
Column diameter: 0.25

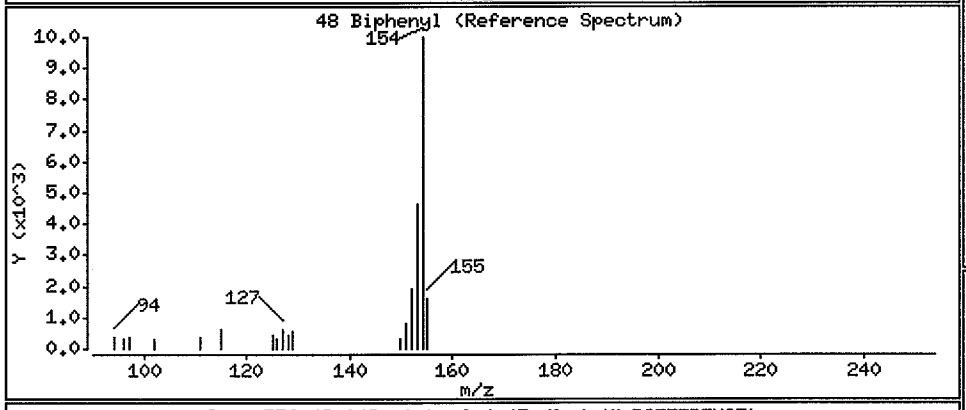
LRL

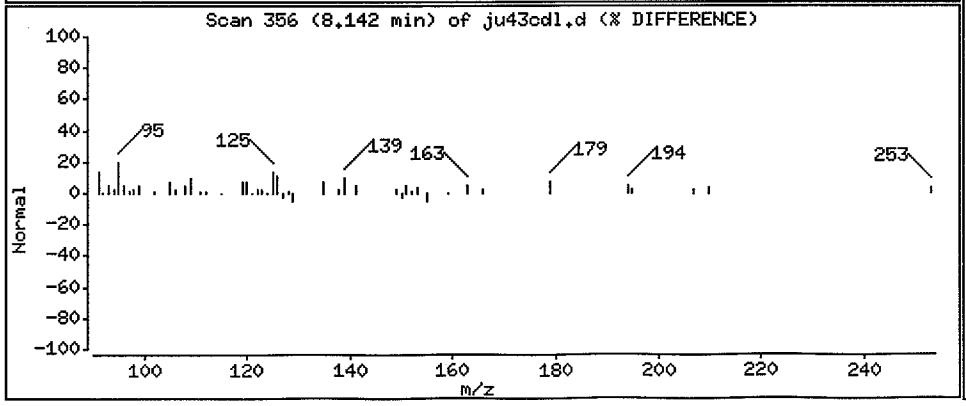
48 Biphenyl

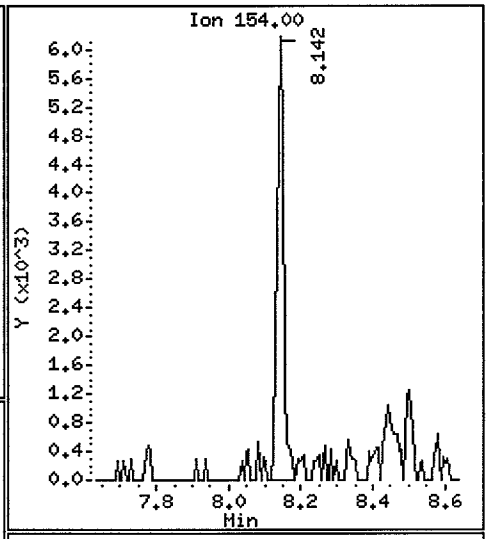
Concentration: 75.58 ug/kg

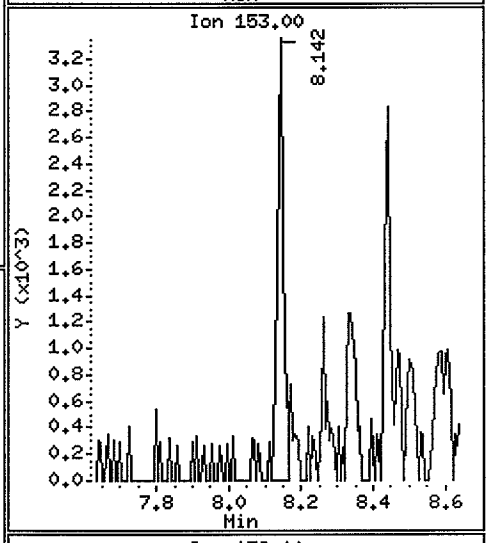


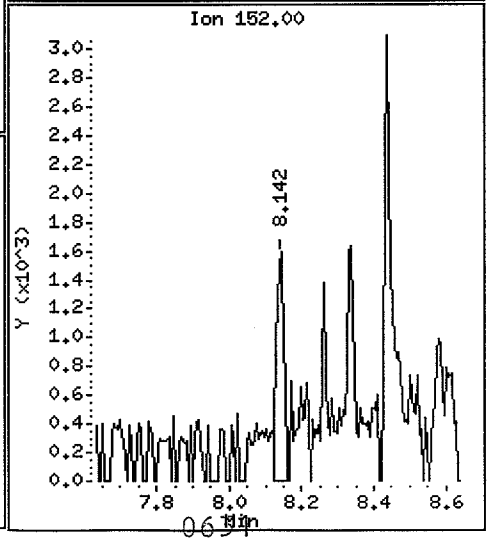












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

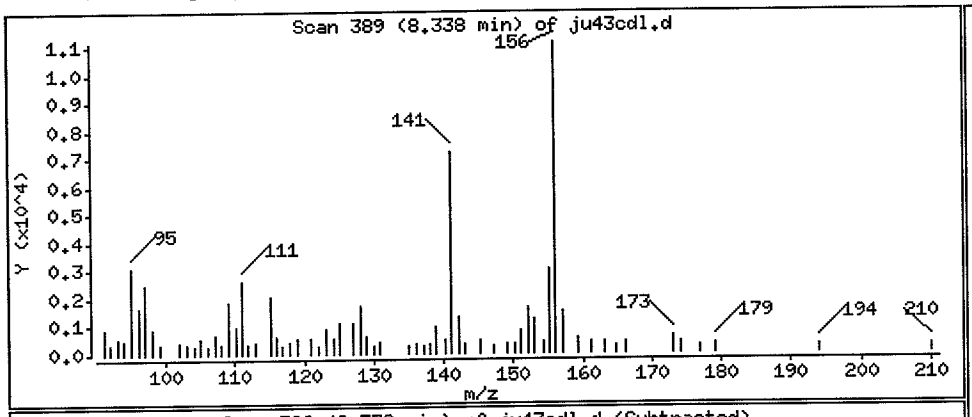
Operator: VTS

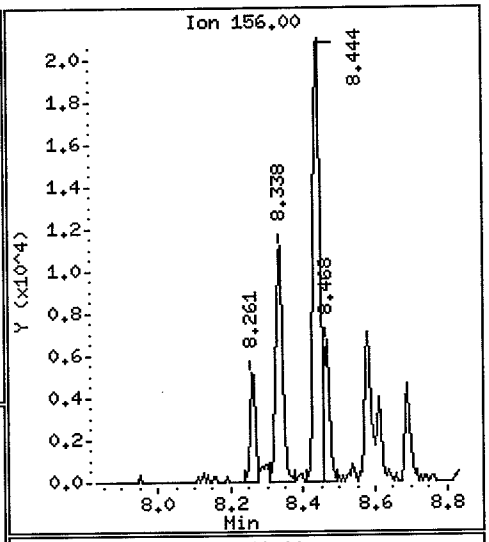
Column phase: ZB-5

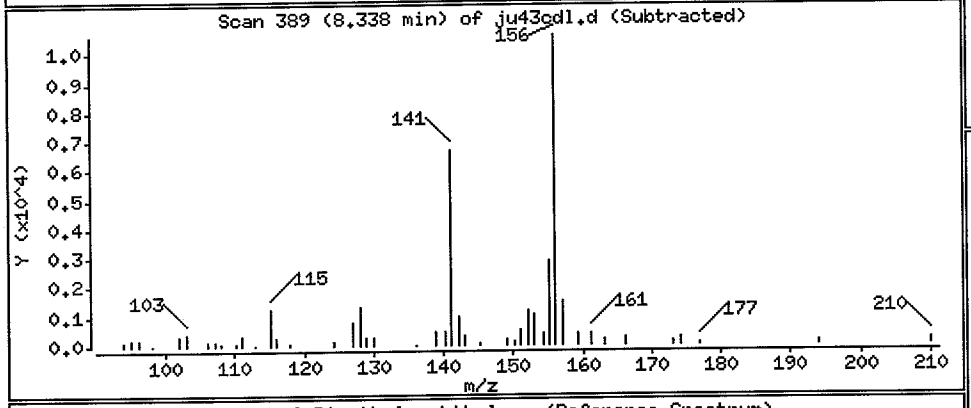
Column diameter: 0.25

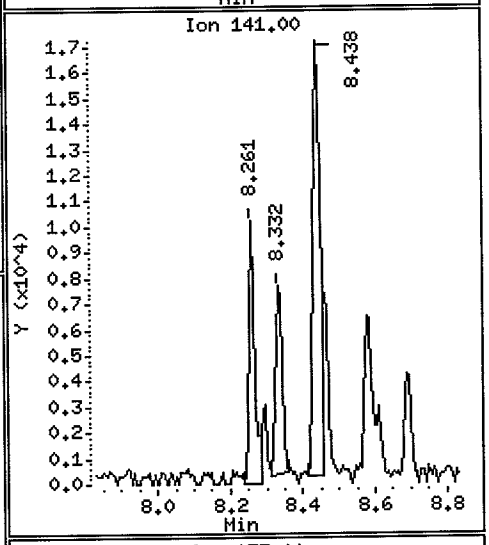
49 2,6-Dimethylnaphthalene

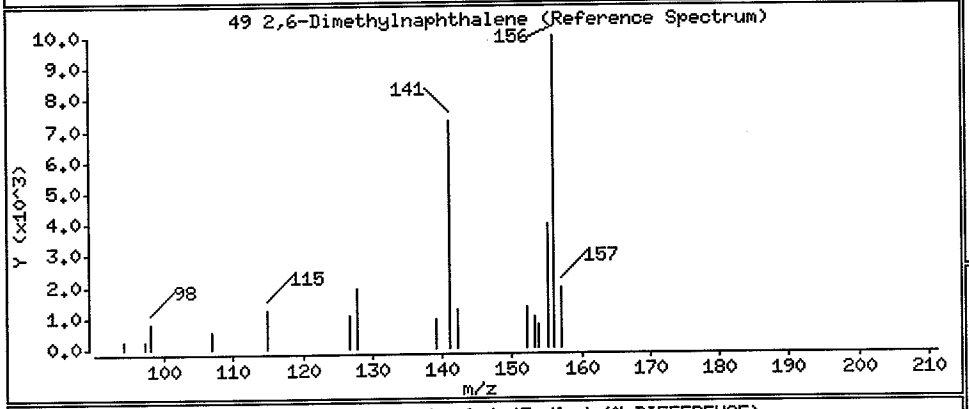
Concentration: 186.6 ug/kg

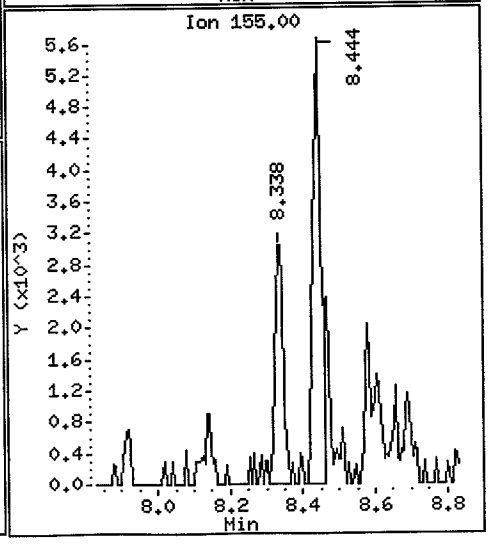


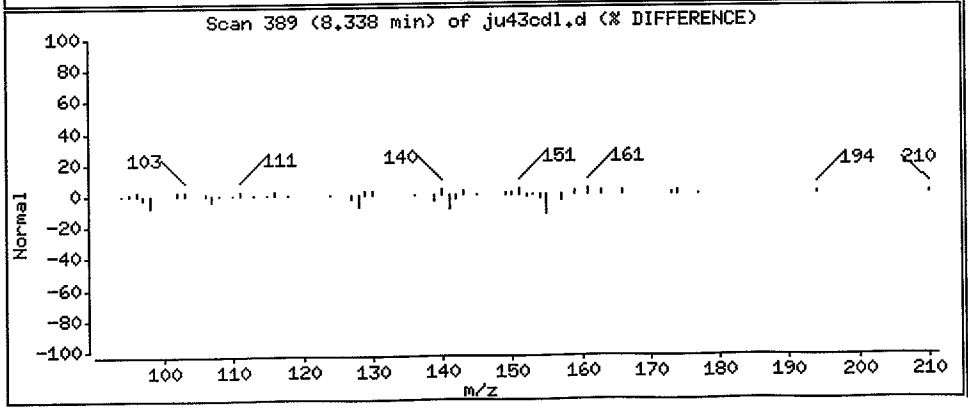












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

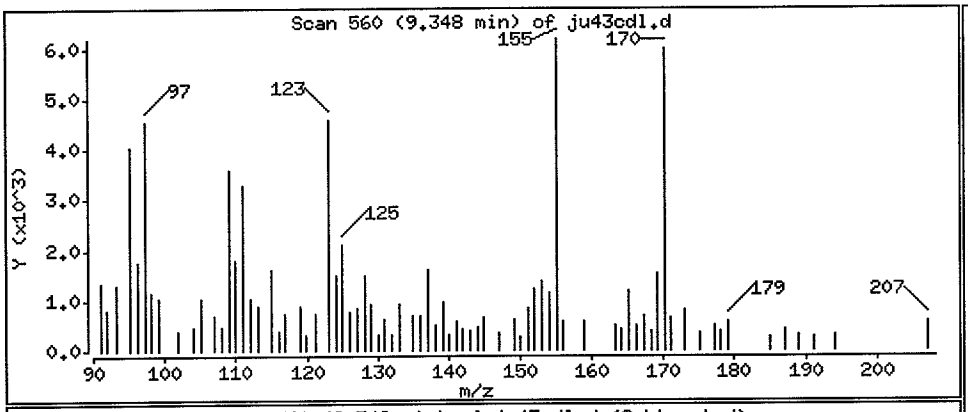
Operator: VTS

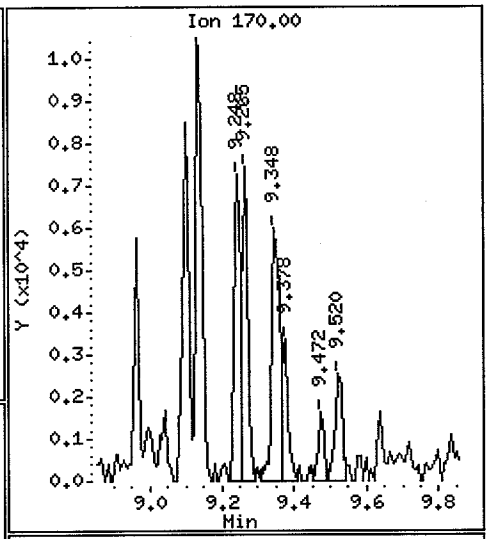
Column phase: ZB-5

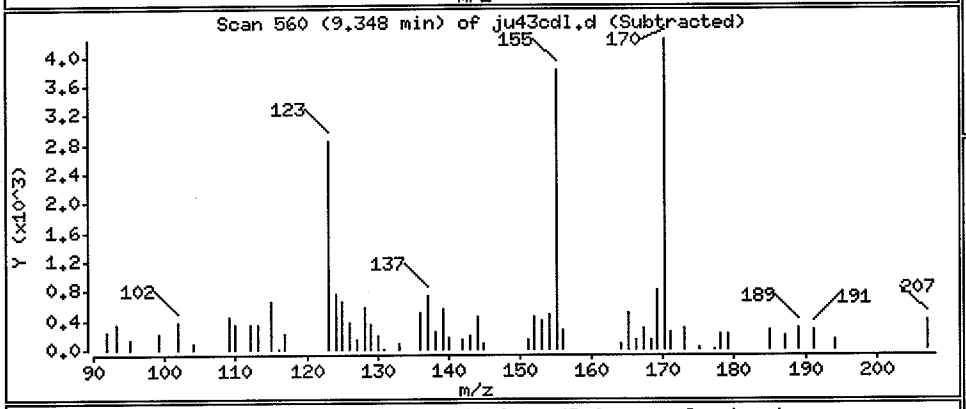
Column diameter: 0.25

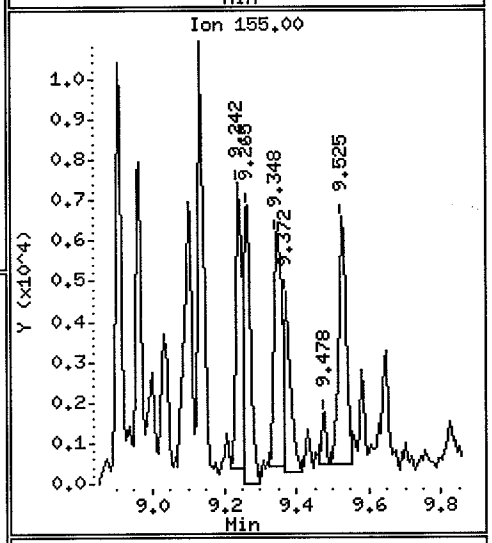
50 2,3,5-Trimethylnaphthalene

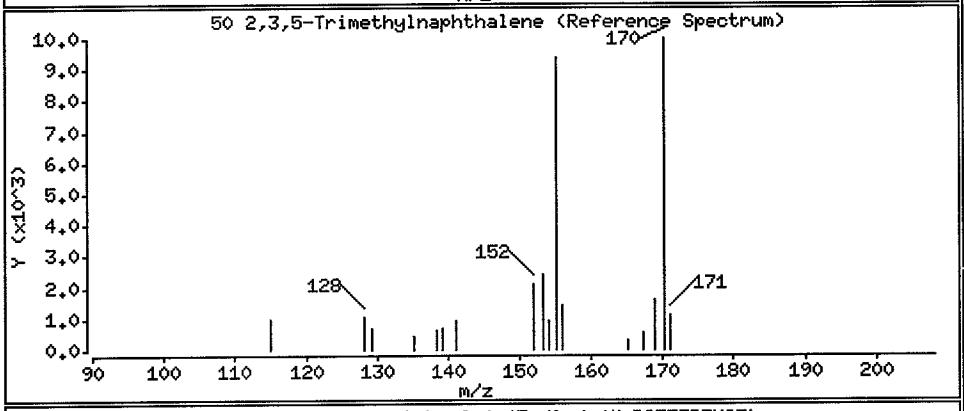
Concentration: 151.8 ug/kg

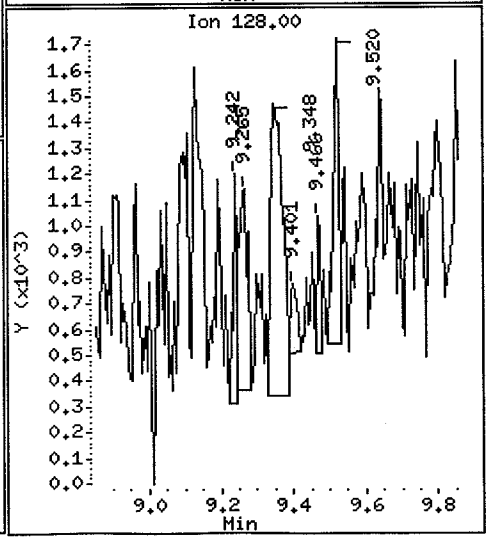


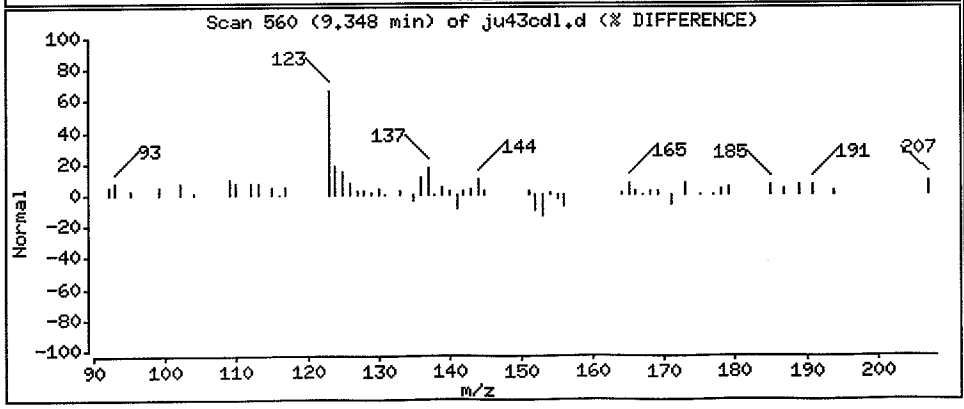












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

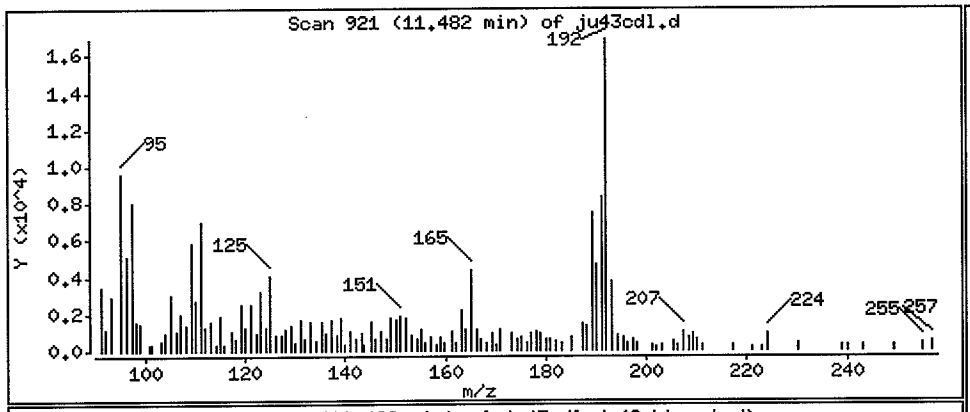
Operator: VTS

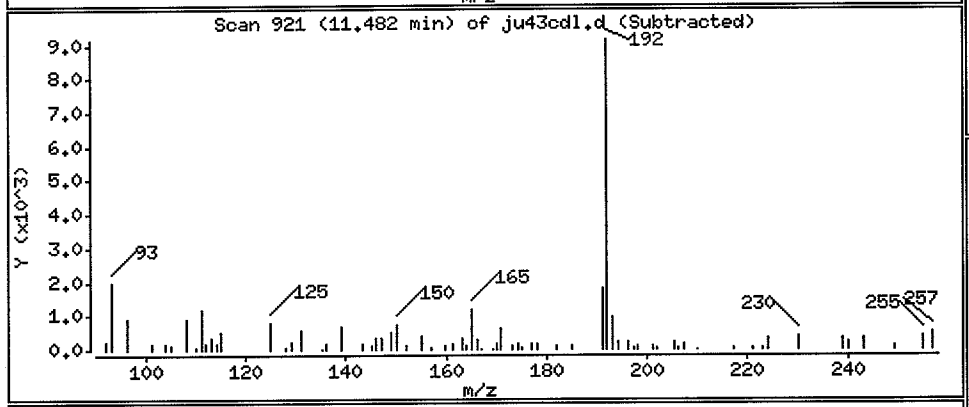
Column phase: ZB-5

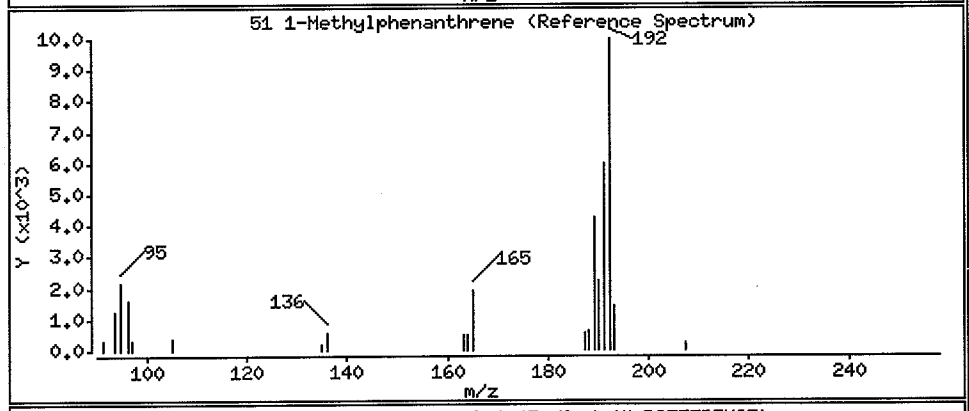
Column diameter: 0.25

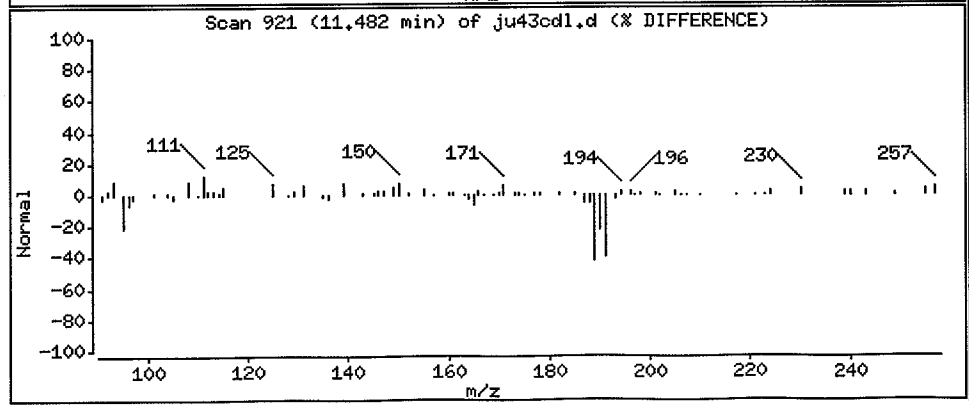
51 1-Methylphenanthrene

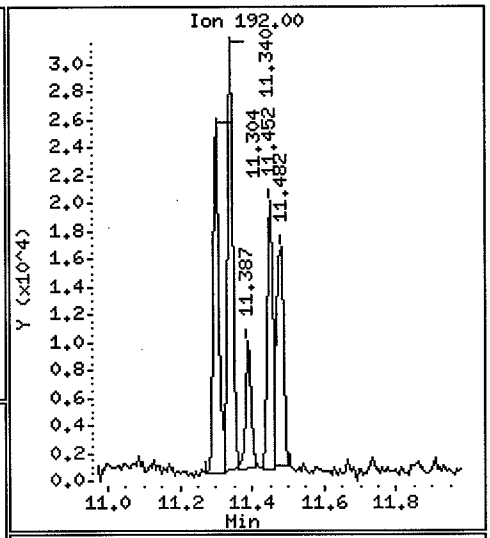
Concentration: 272.3 ug/kg

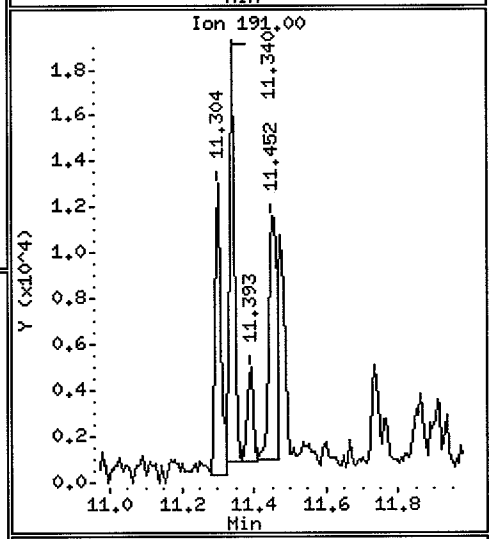


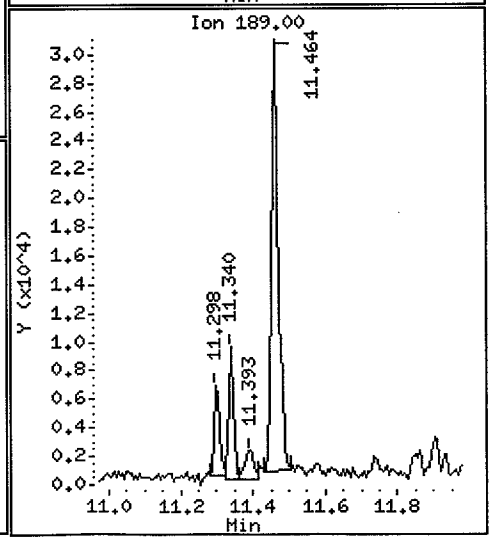












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

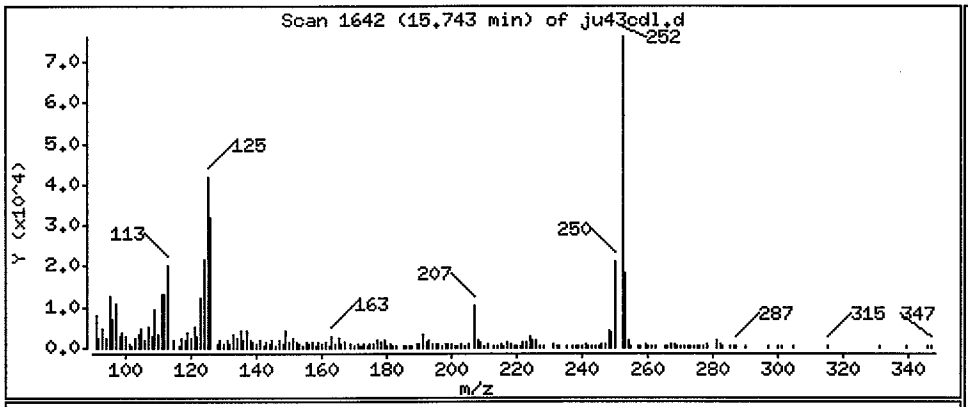
Operator: VTS

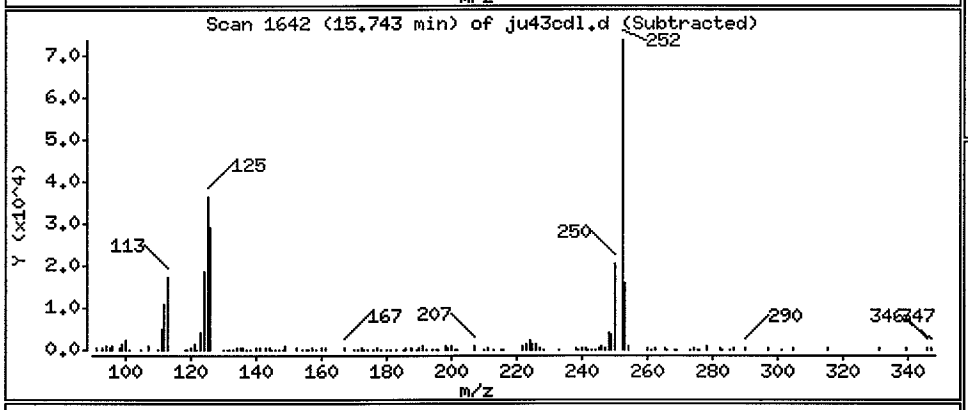
Column phase: ZB-5

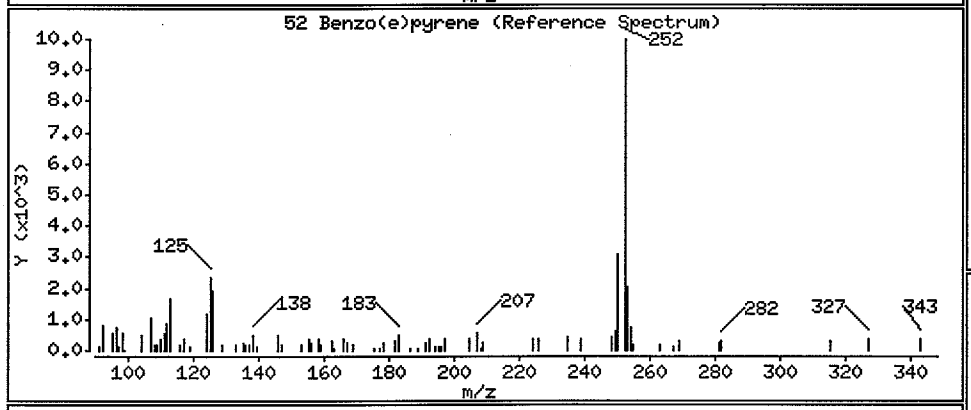
Column diameter: 0.25

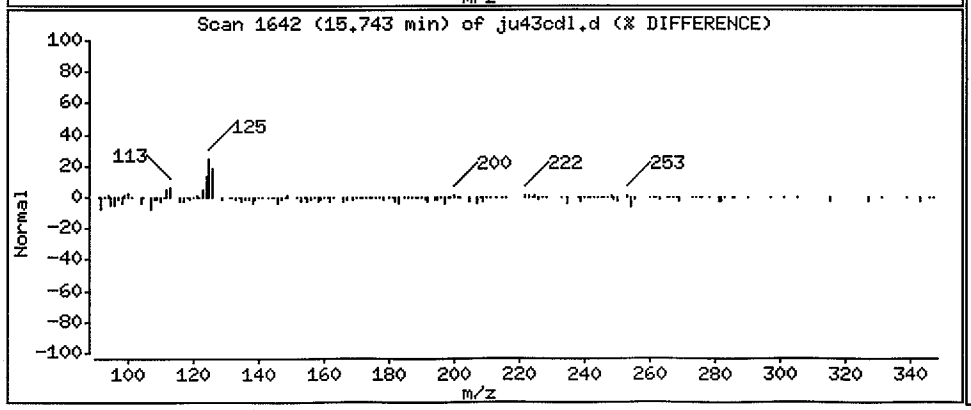
52 Benzo(e)pyrene

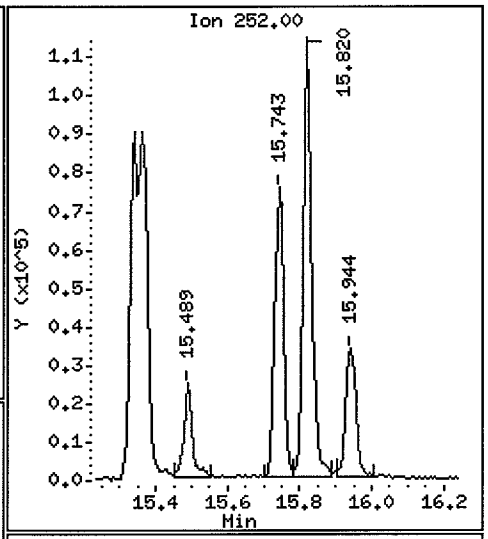
Concentration: 1354 ug/kg

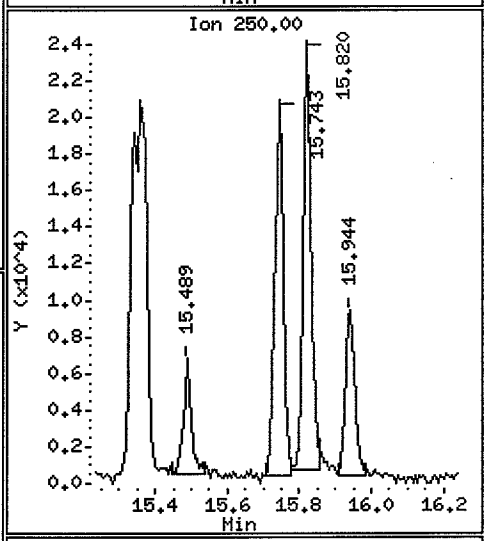


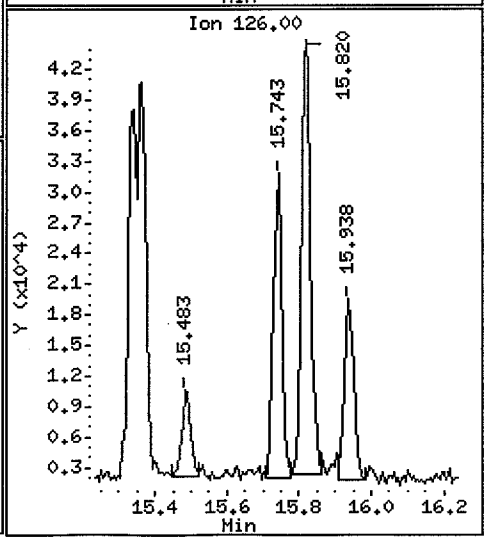












Data File: /chem3/nt1.i/20060913.b/ju43cdl.d

Date : 13-SEP-2006 15:33

Client ID: T4-B414-01-E

Instrument: nt1.i

Sample Info: JU43C,20

Volume Injected (uL): 1.0

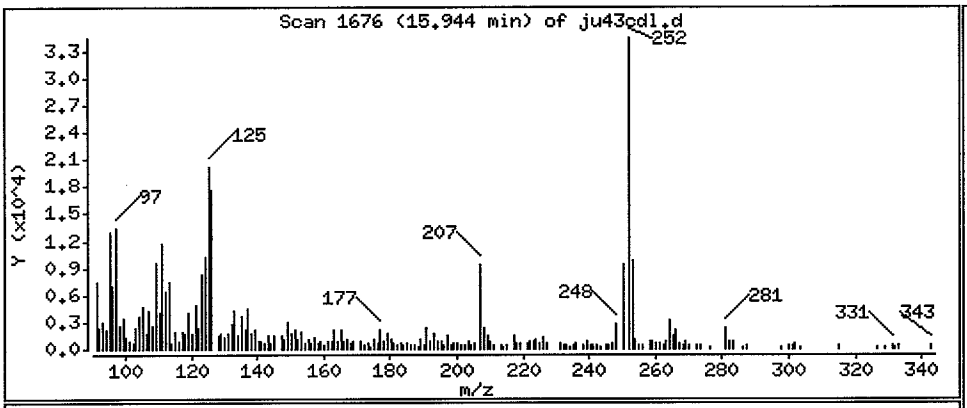
Operator: VTS

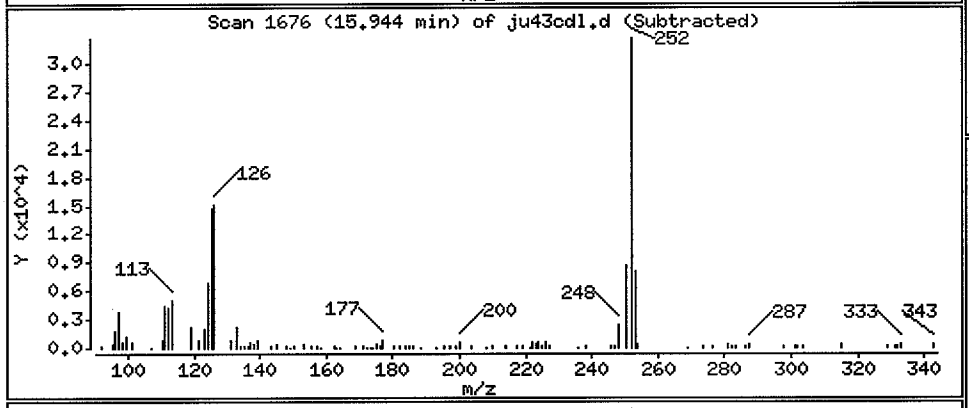
Column phase: ZB-5

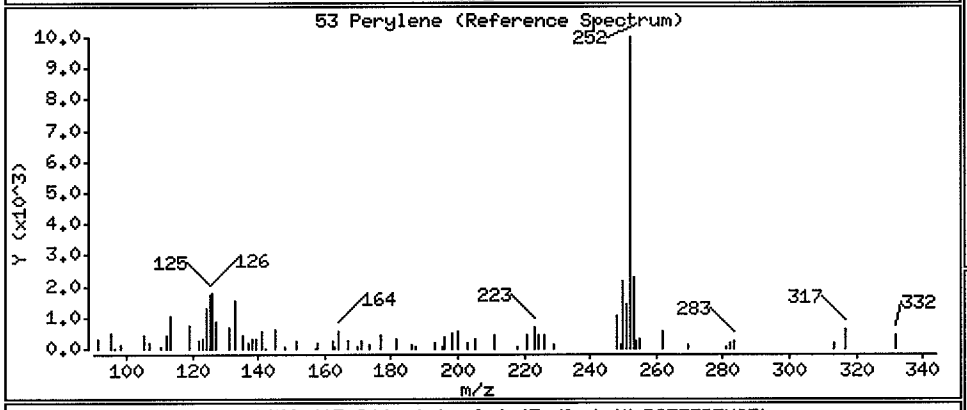
Column diameter: 0.25

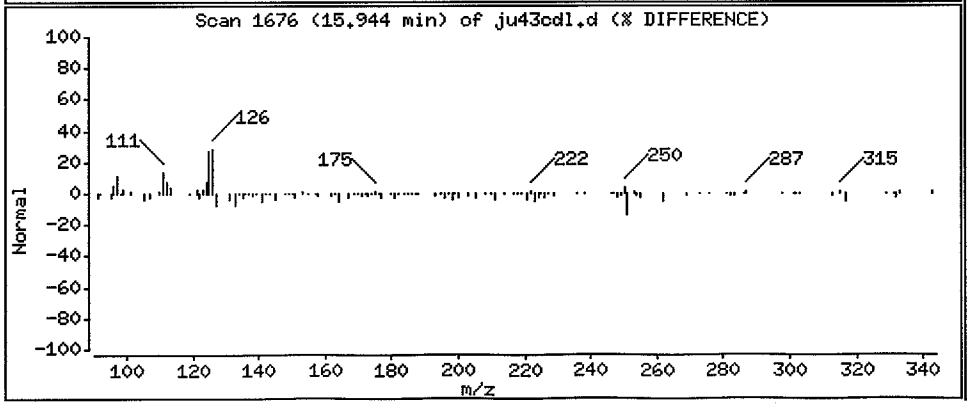
53 Perylene

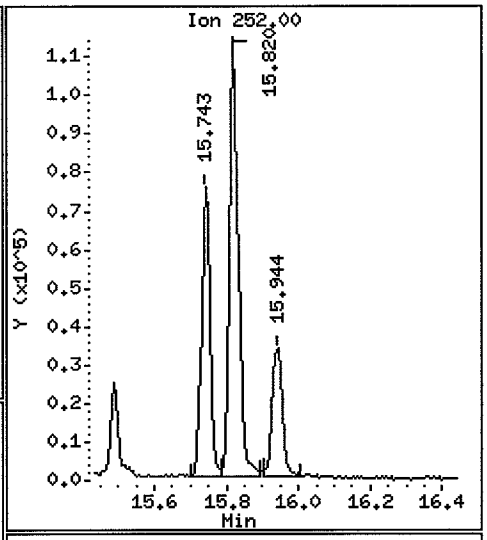
Concentration: 753.8 ug/kg

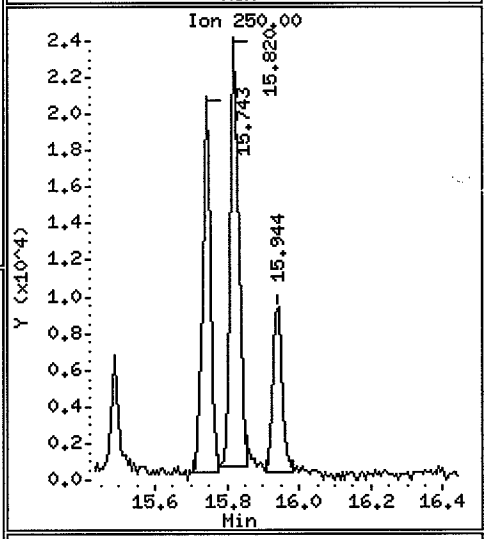


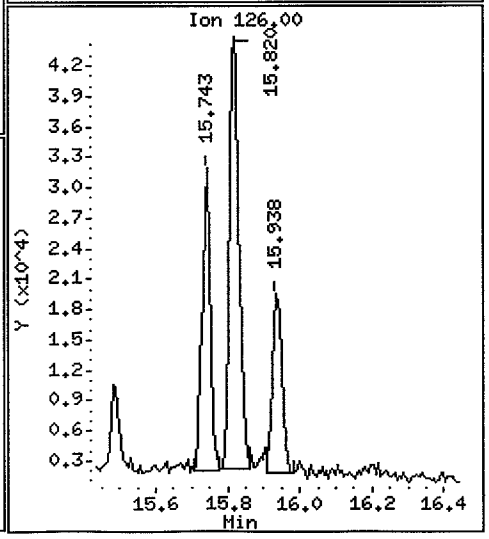












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-02-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43D
LIMS ID: 06-15848
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 14:42
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.3%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	96
91-57-6	2-Methylnaphthalene	5.0	46
90-12-0	1-Methylnaphthalene	5.0	17
208-96-8	Acenaphthylene	5.0	19
83-32-9	Acenaphthene	5.0	61
86-73-7	Fluorene	5.0	59
85-01-8	Phenanthrene	5.0	280
120-12-7	Anthracene	5.0	77
206-44-0	Fluoranthene	5.0	470
129-00-0	Pyrene	5.0	480
56-55-3	Benzo(a)anthracene	5.0	190
218-01-9	Chrysene	5.0	270
205-99-2	Benzo(b)fluoranthene	5.0	220
207-08-9	Benzo(k)fluoranthene	5.0	170
50-32-8	Benzo(a)pyrene	5.0	200
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	110
53-70-3	Dibenz(a,h)anthracene	5.0	33
191-24-2	Benzo(g,h,i)perylene	5.0	120
198-55-0	Perylene	5.0	300
92-52-4	Biphenyl	5.0	12
581-42-0	2,6-Dimethylnaphthalene	5.0	32
832-69-9	1-Methylphenanthrene	5.0	30
192-97-2	Benzo(e)pyrene	5.0	150
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	17

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.3%
d14-Dibenzo(a,h)anthracen	64.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43d.d
Lab Smp Id: JU43D Client Smp ID: T4-B414-02-D
Inj Date : 12-SEP-2006 14:42
Operator : VTS Inst ID: nt1.i
Smp Info : JU43D
Misc Info : 06-15848
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 2
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	18.50000	Weight of sample extracted (g)
M	45.30000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.813	6.808	(1.000)	384197	2.00000		
	2 Naphthalene	128	6.836	6.832	(1.003)	357897	1.93895	95.80	
$	3 2-Methylnaphthalene-d10	152	7.569	7.564	(1.111)	221031	2.32009	114.6	
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	90250	0.91995	45.45	
	5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	36484	0.34271	16.93	
	7 Acenaphthylene	152	8.692	8.687	(0.980)	57322	0.37754	18.65	
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	184808	2.00000		
	9 Acenaphthene	153	8.911	8.906	(1.005)	112595	1.22784	60.67	
	10 Dibenzofuran	168	9.100	9.095	(1.026)	97175	~~0.74~~564	36.84	NR
	11 Fluorene	166	9.520	9.521	(1.073)	118098	1.18701	58.65	
*	15 Phenanthrene-d10	188	10.684	10.679	(1.000)	234301	2.00000		
	16 Phenanthrene	178	10.713	10.709	(1.003)	707714	5.57225	275.3	
	17 Anthracene	178	10.767	10.762	(1.008)	200442	1.56481	77.32	
	19 Fluoranthene	202	12.215	12.198	(1.143)	1031867	9.51817	470.3	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.498	12.488	(0.893)	1129954	9.74848	481.7
	22 Benzo(a)anthracene	228	13.982	13.965	(0.999)	372666	3.77427	186.5
*	23 Chrysene-d12	240	13.999	13.989	(1.000)	164692	2.00000	
	24 Chrysene	228	14.035	14.018	(1.003)	506627	5.46023	269.8
	28 Benzo(b)fluoranthene	252	15.359	15.336	(0.964)	436175	4.38025	216.4
	29 Benzo(k)fluoranthene	252	15.388	15.366	(0.966)	361048	3.47168	171.5(M)
	30 Benzo(a)pyrene	252	15.849	15.821	(0.995)	365434	4.06879	201.0
*	31 Perylene-d12	264	15.932	15.898	(1.000)	175845	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.859	17.813	(1.121)	210275	2.18087	107.8
$	32 Dibenz(a,h)anthrancene-d14	292	17.776	17.736	(1.116)	111233	1.93032	95.38
	34 Dibenz(a,h)anthracene	278	17.835	17.807	(1.119)	52311	0.66940	33.07
	35 Benzo(g,h,i)perylene	276	18.426	18.380	(1.157)	208870	2.45122	121.1
	48 Biphenyl	154	8.143	8.138	(0.918)	28276	0.24673	12.19
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	56601	0.65382	32.30
	50 2,3,5-Trimethylnaphthalene	170	9.354	9.355	(1.055)	23103	0.33784	16.69
	51 1-Methylphenanthrene	192	11.488	11.477	(0.821)	46899	0.60332	29.81
	52 Benzo(e)pyrene	252	15.773	15.744	(0.990)	309046	3.08870	152.6
	53 Perylene	252	15.973	15.939	(1.003)	565846	6.06069	299.5

QC Flag Legend

M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43d.d
Lab Smp Id: JU43D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15848

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-02-D
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	384197	12.49
8 Acenaphthene-d10	169375	84688	338750	184808	9.11
15 Phenanthrene-d10	232185	116092	464370	234301	0.91
23 Chrysene-d12	179856	89928	359712	164692	-8.43
31 Perylene-d12	175373	87686	350746	175845	0.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.07
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	14.00	0.08
31 Perylene-d12	15.90	15.40	16.40	15.93	0.22

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

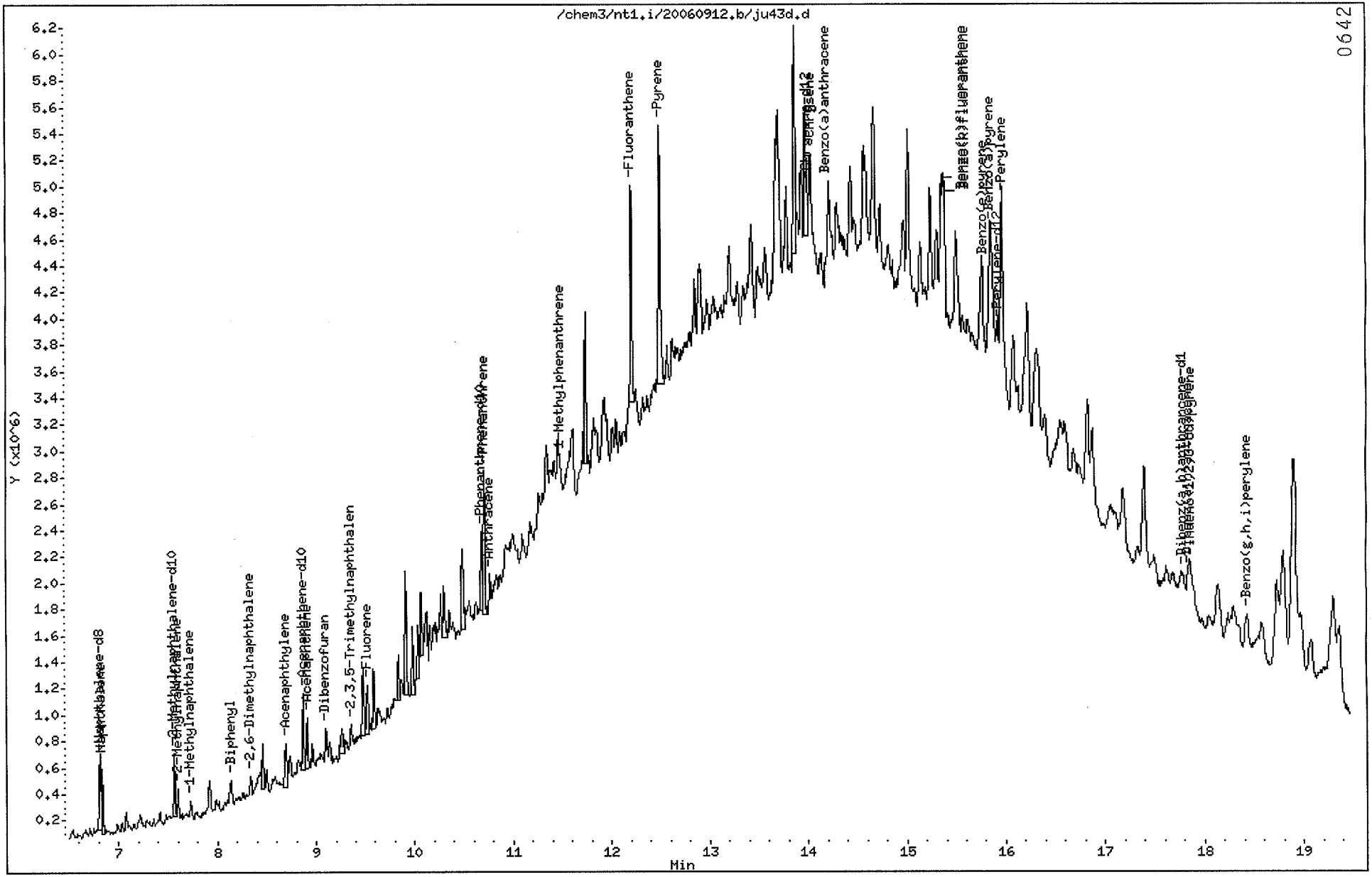
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43D
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15848

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-02-D
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.2	114.6	77.34	32-97
$ 32 Dibenz(a,h)anthran	148.2	95.38	64.34	21-105

Data File: /chem3/nt1.i/20060912.b/ju43d.d
Date : 12-SEP-2006 14:42
Client ID: T4-B414-02-D
Sample Info: JU43D
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

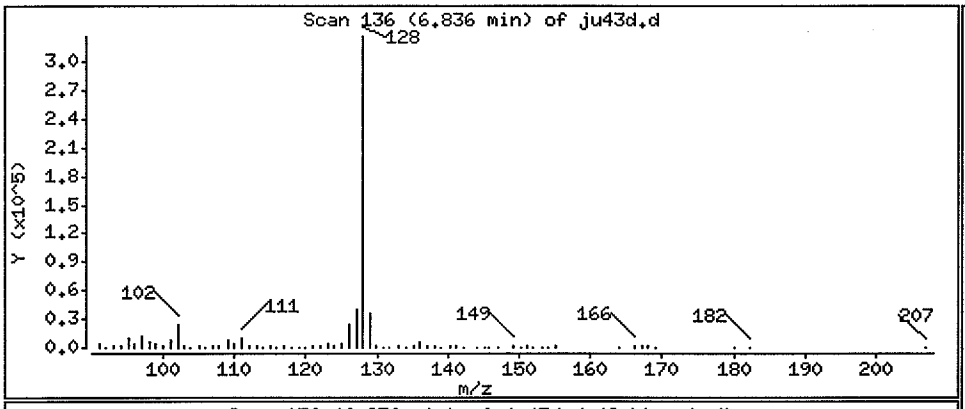
Operator: VTS

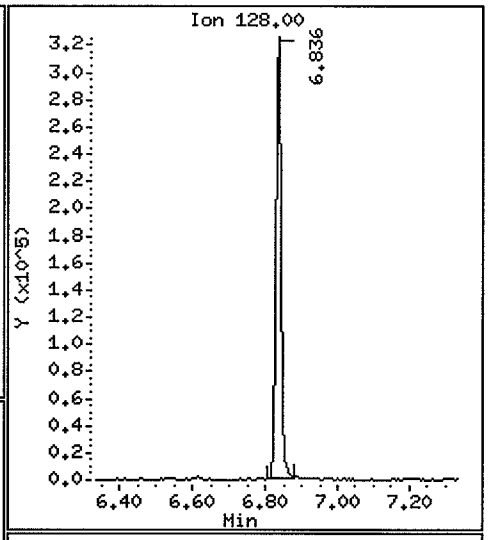
Column phase: ZB-5

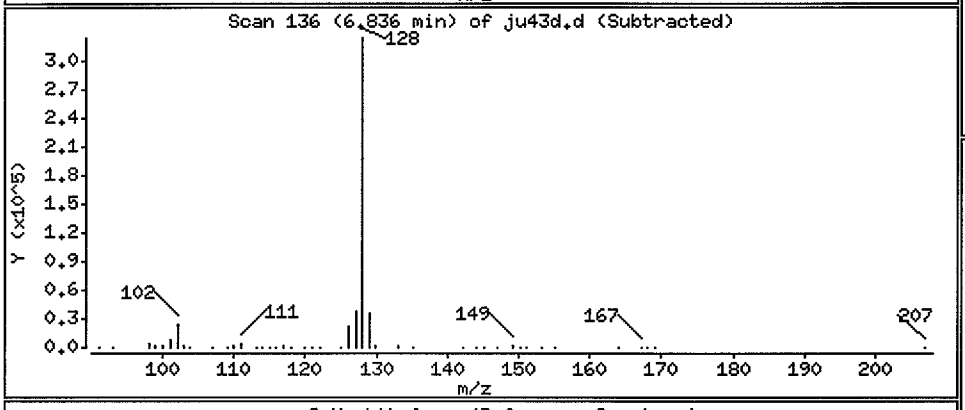
Column diameter: 0.25

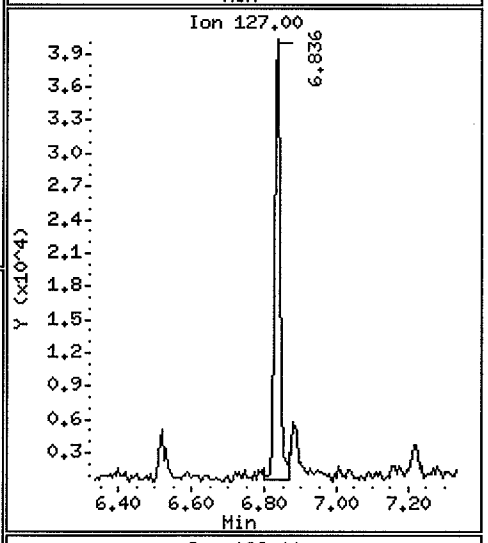
2 Naphthalene

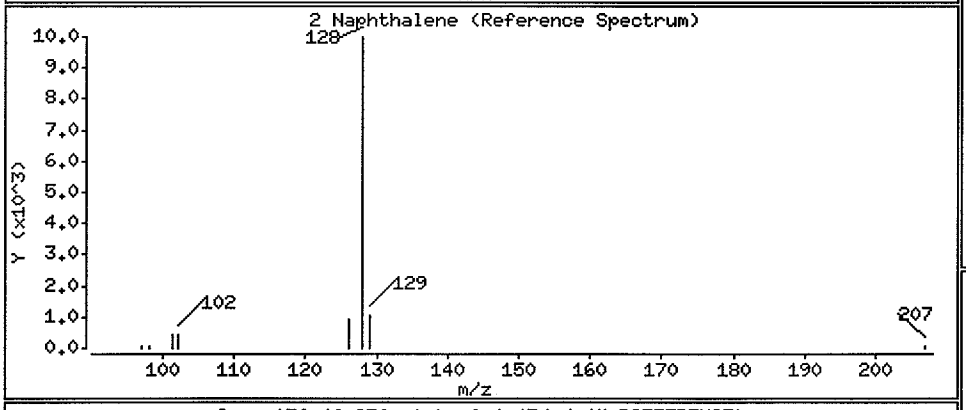
Concentration: 95.80 ug/kg

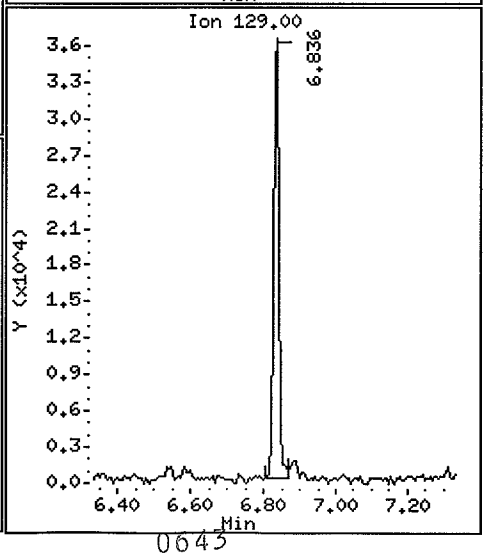


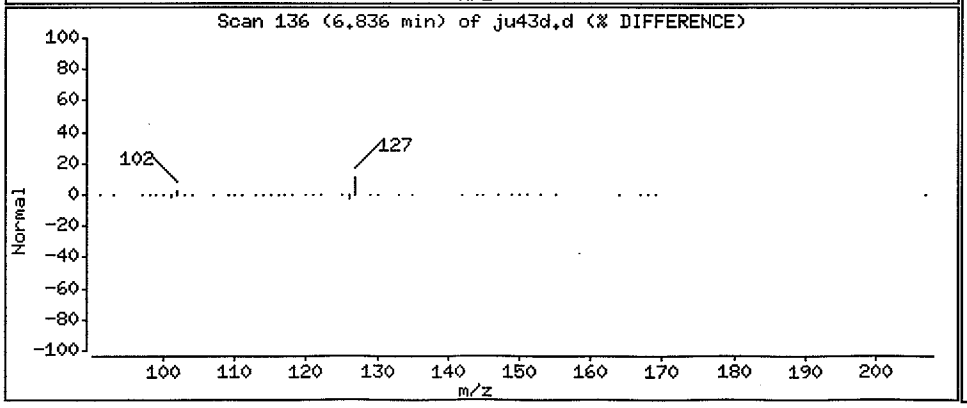












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

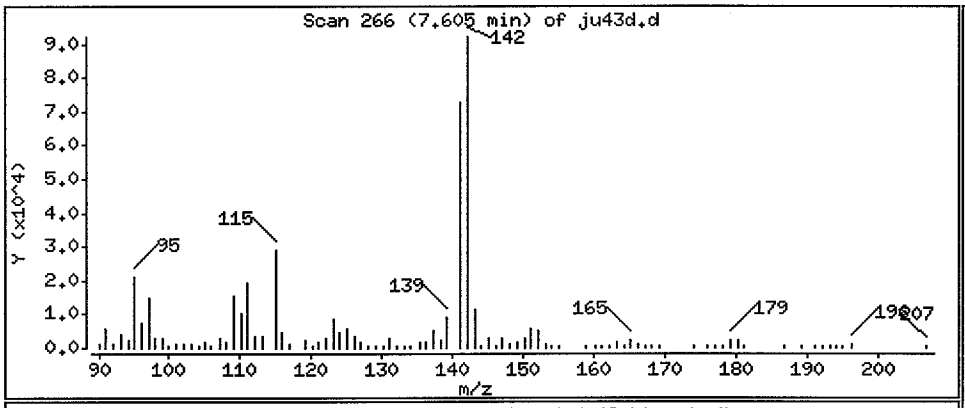
Operator: VTS

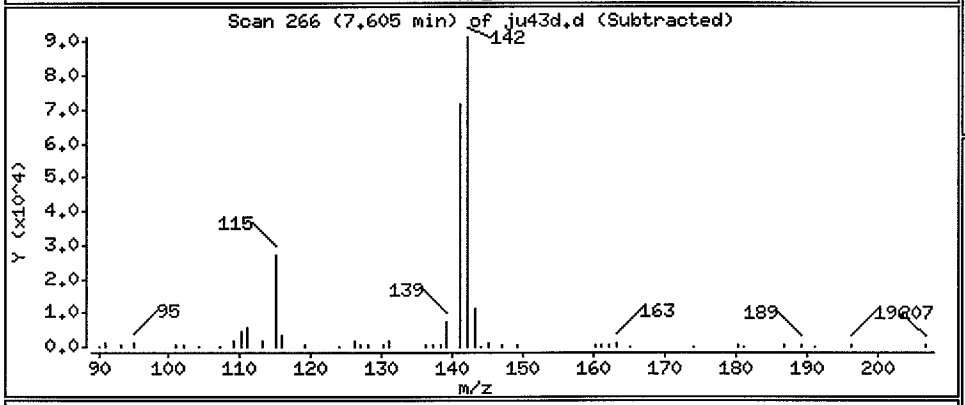
Column phase: ZB-5

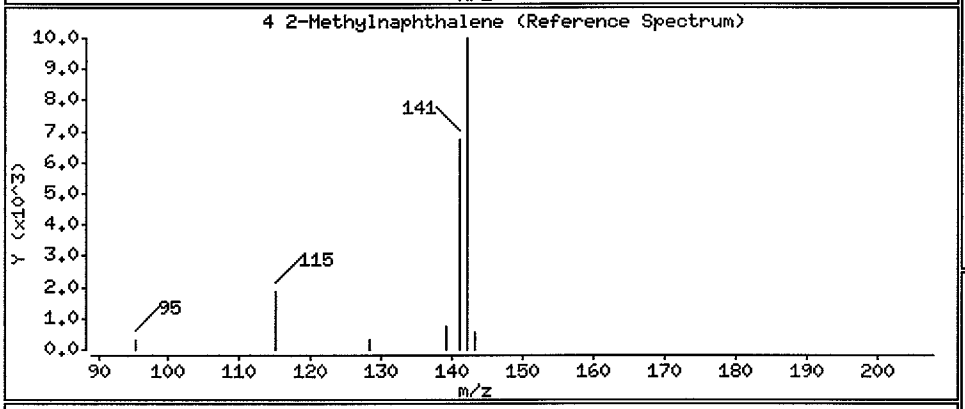
Column diameter: 0.25

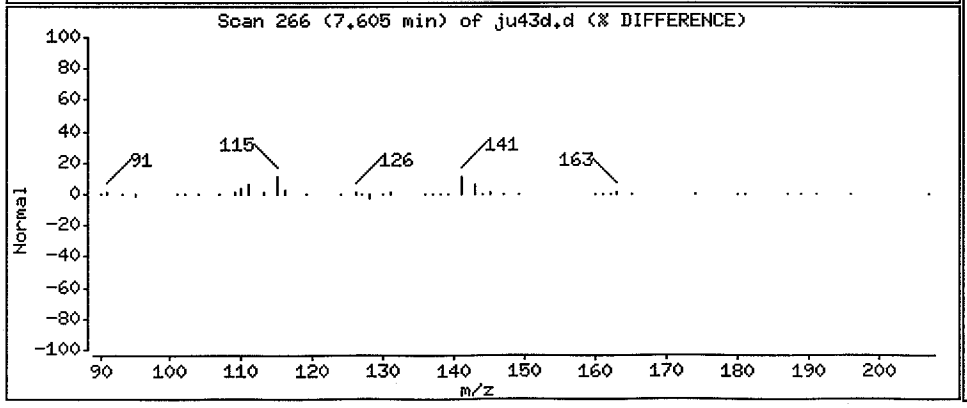
4 2-Methylnaphthalene

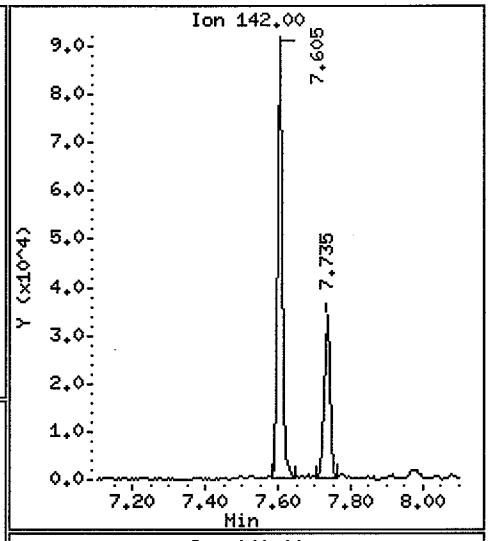
Concentration: 45.45 ug/kg

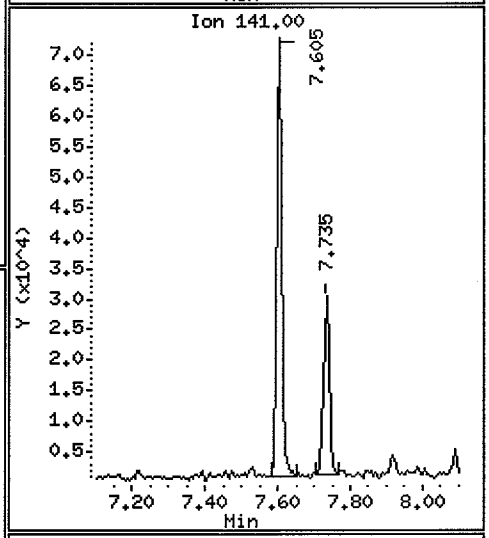


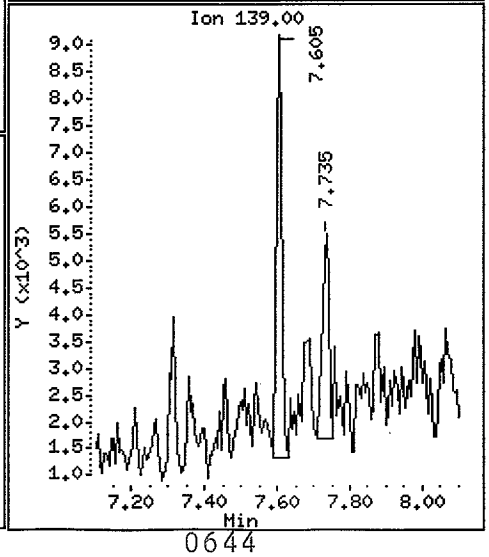












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

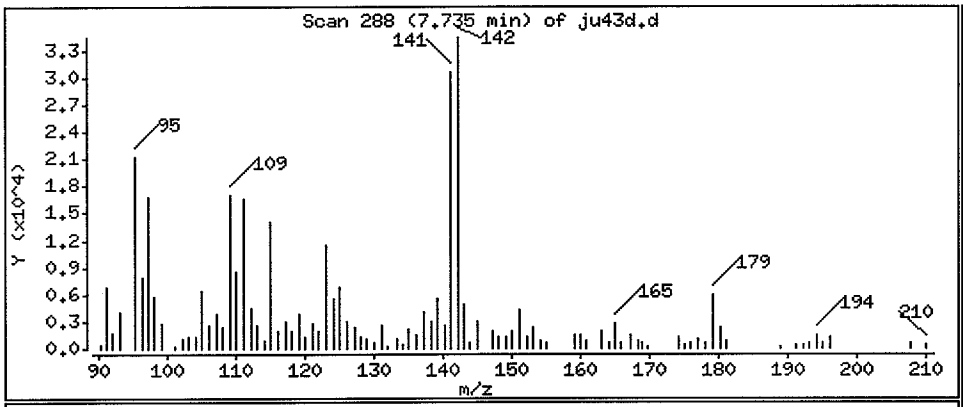
Operator: VTS

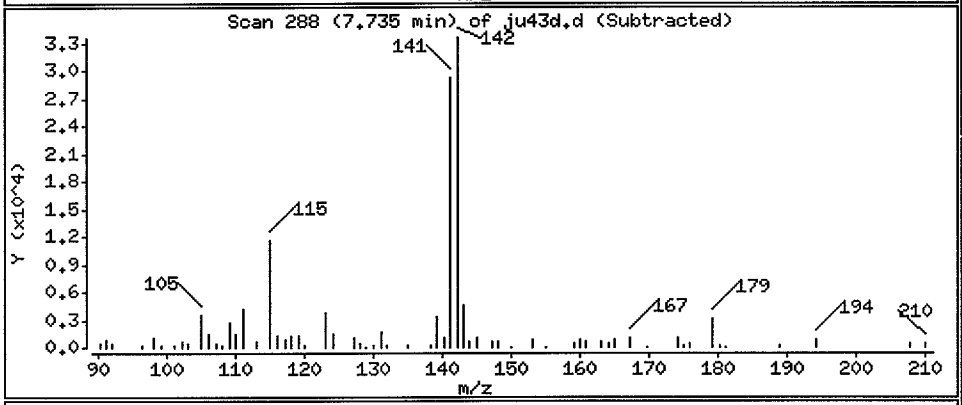
Column phase: ZB-5

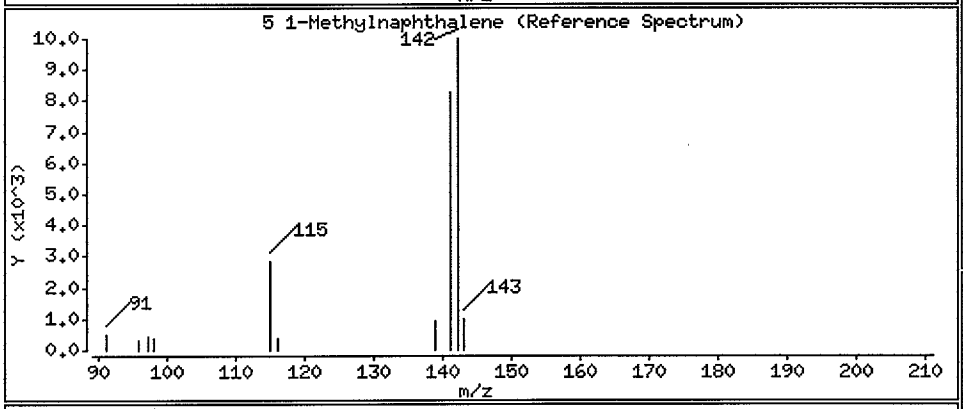
Column diameter: 0.25

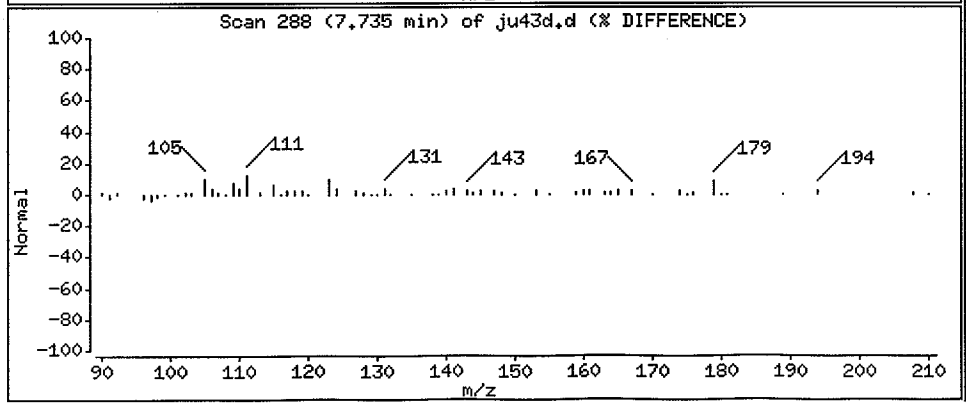
5 1-Methylnaphthalene

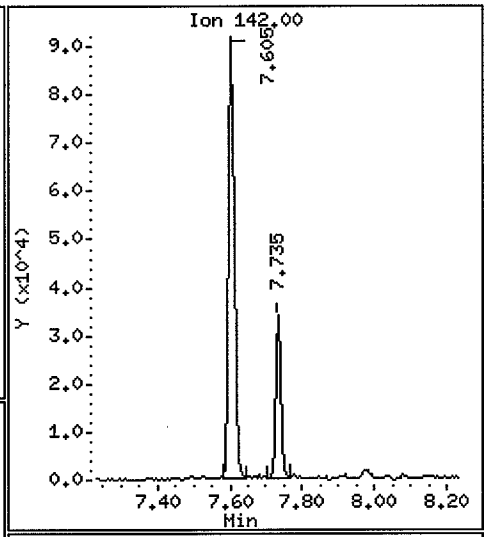
Concentration: 16.93 ug/kg

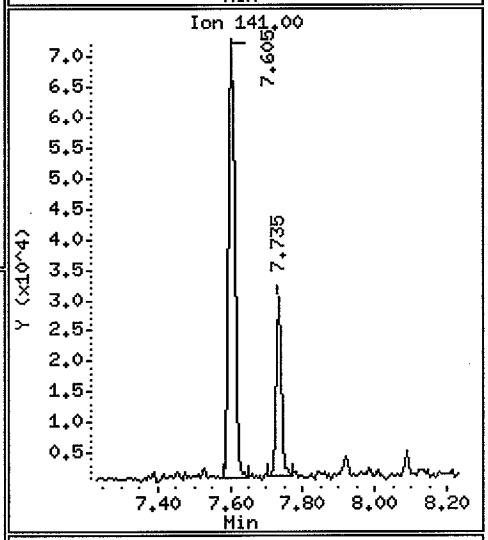


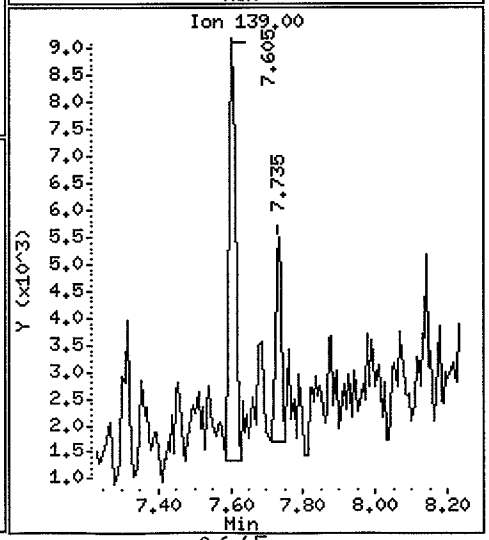












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

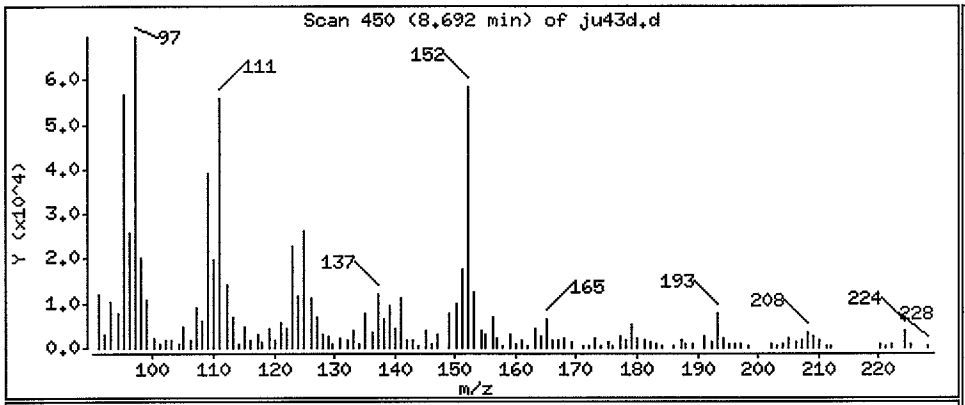
Operator: VTS

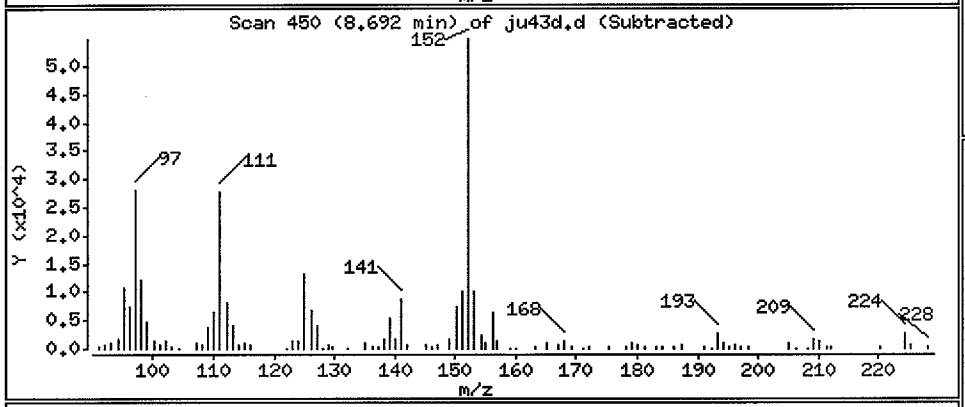
Column phase: ZB-5

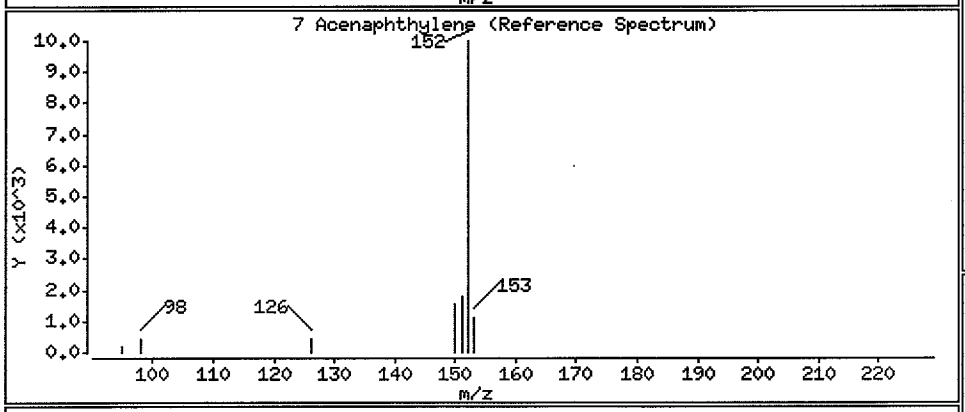
Column diameter: 0.25

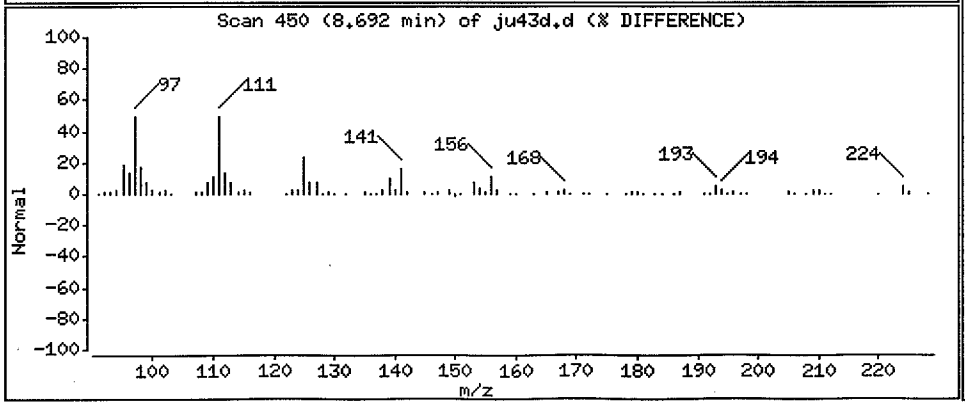
7 Acenaphthylene

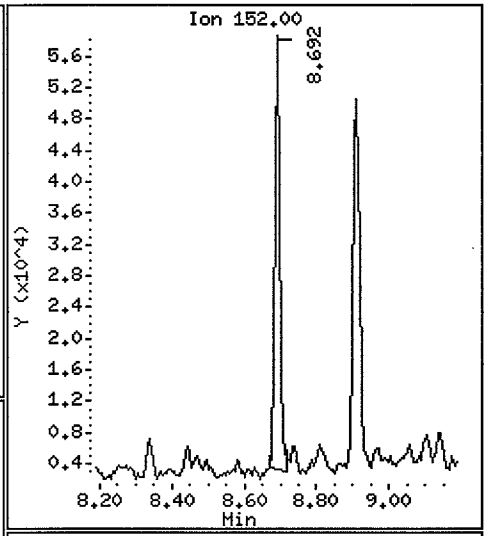
Concentration: 18.65 ug/kg

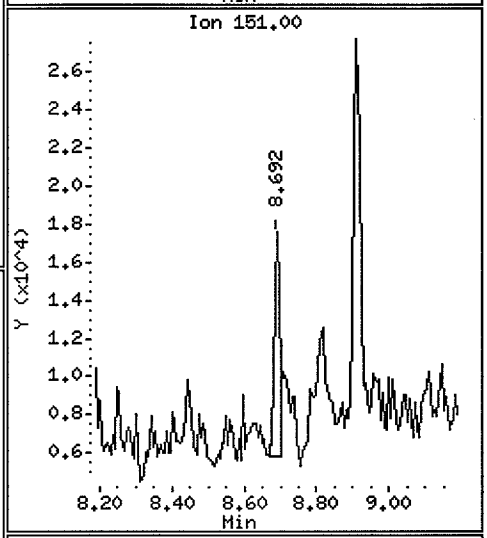


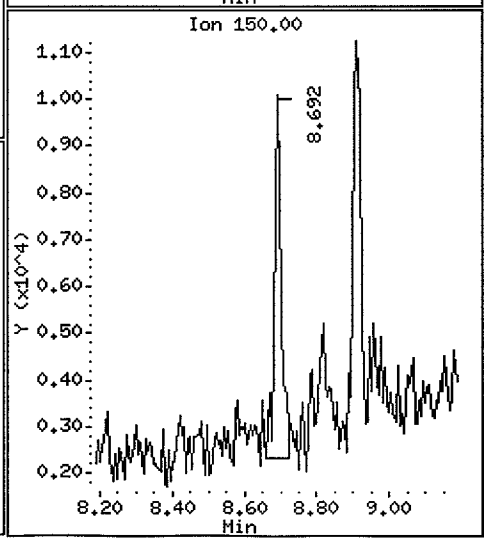












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

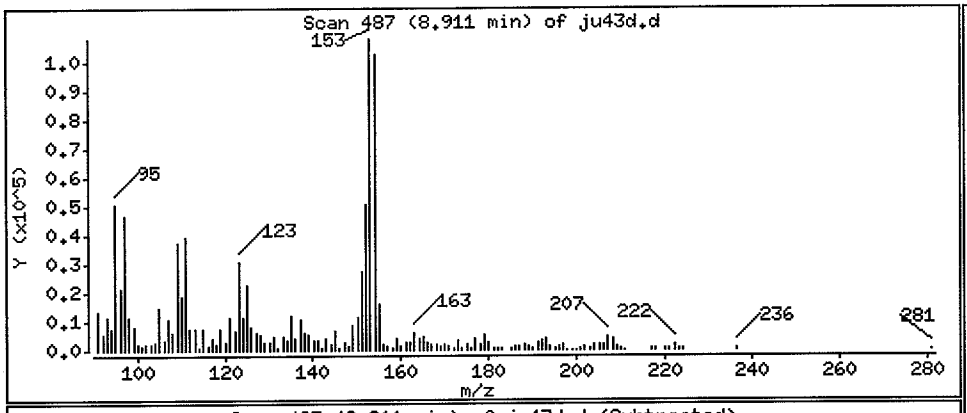
Operator: VTS

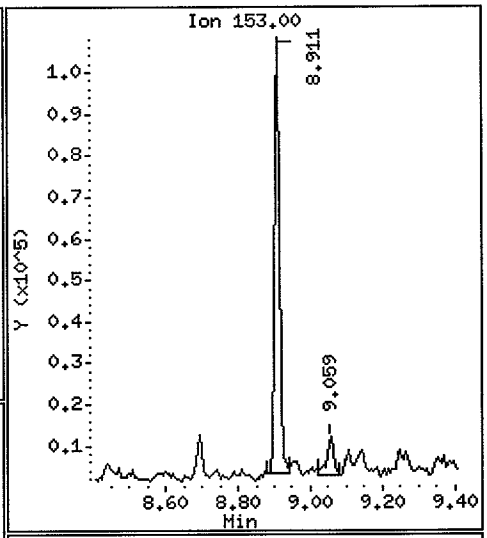
Column phase: ZB-5

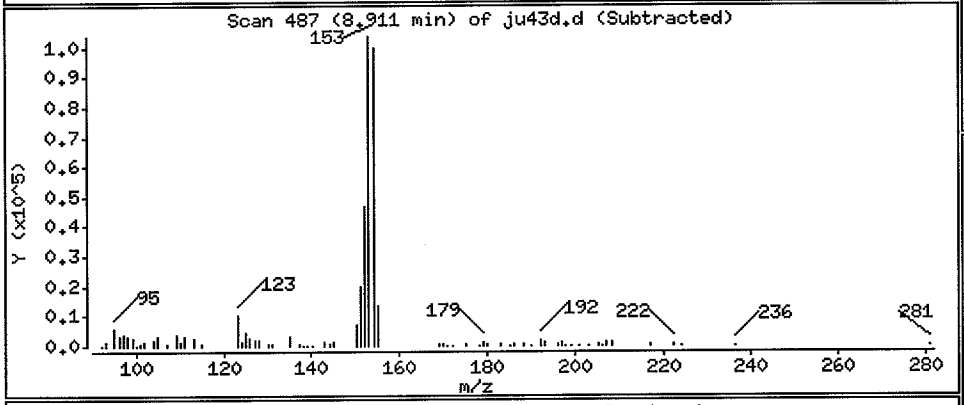
Column diameter: 0.25

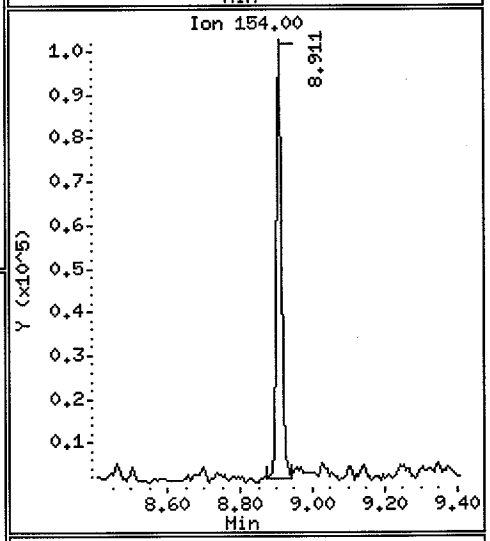
9 Acenaphthene

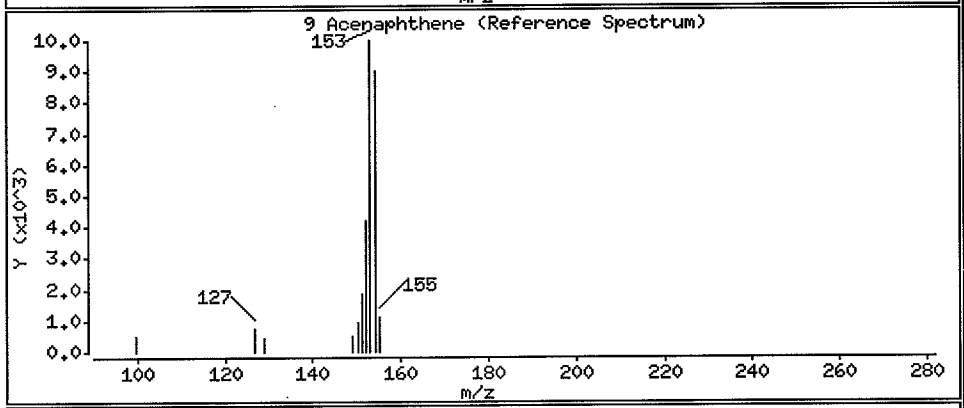
Concentration: 60.67 ug/kg

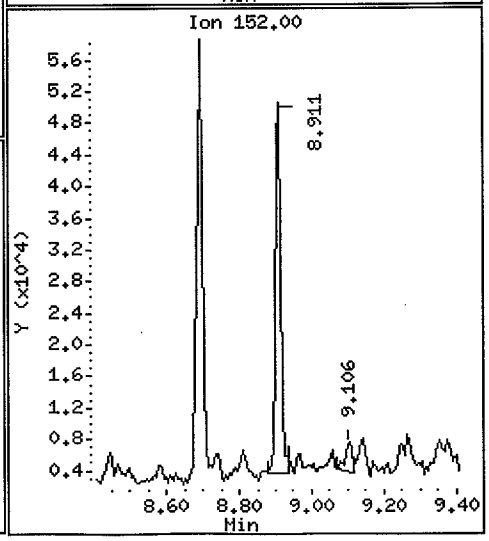


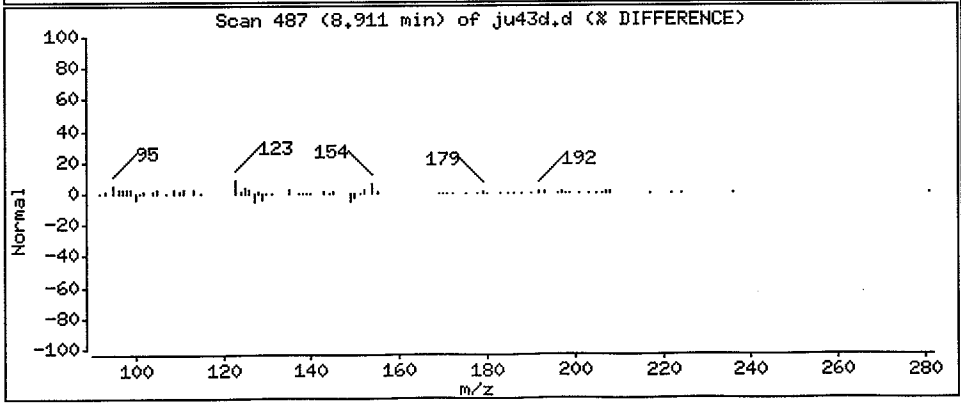












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

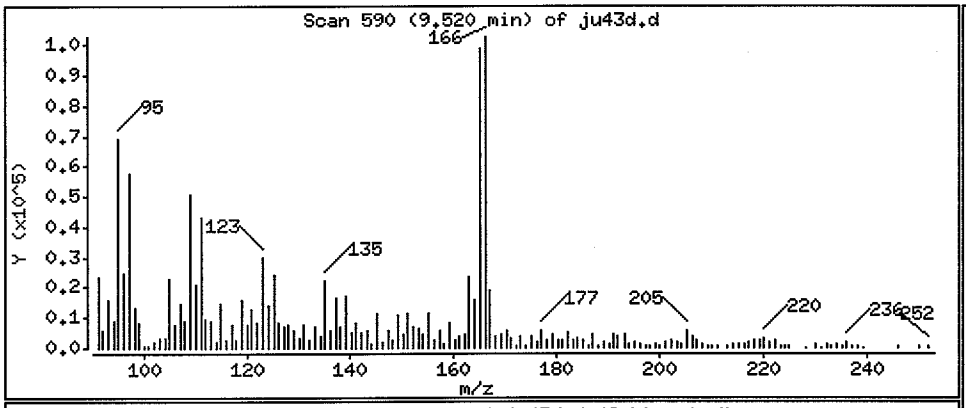
Operator: VTS

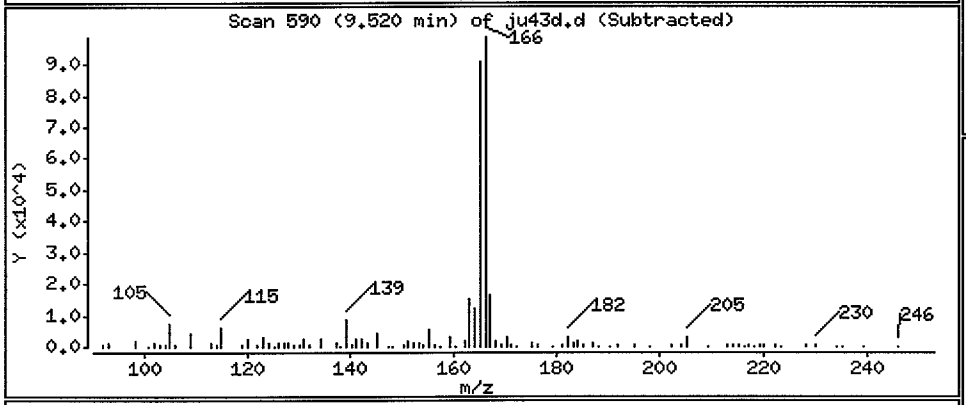
Column phase: ZB-5

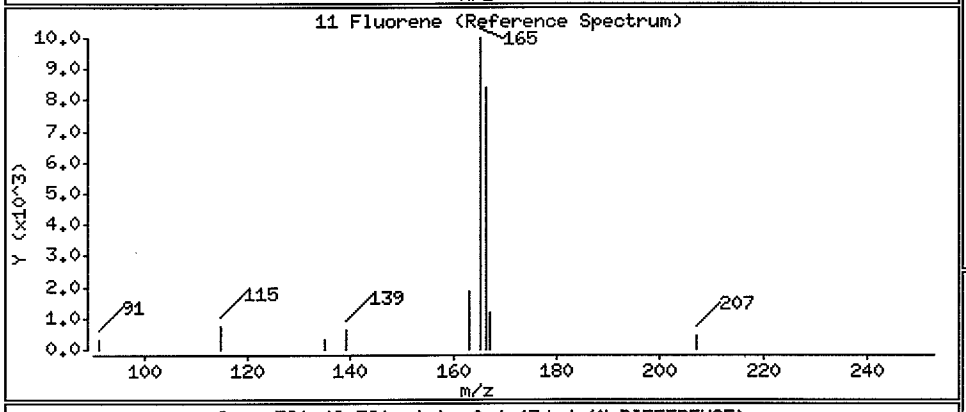
Column diameter: 0.25

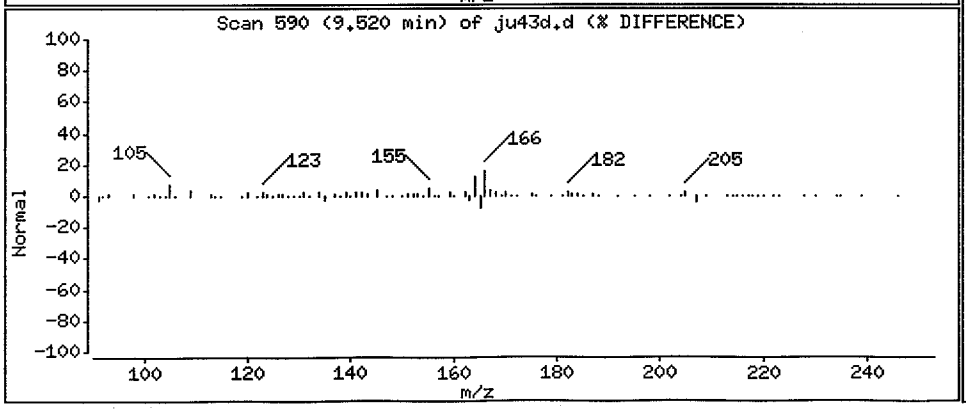
11 Fluorene

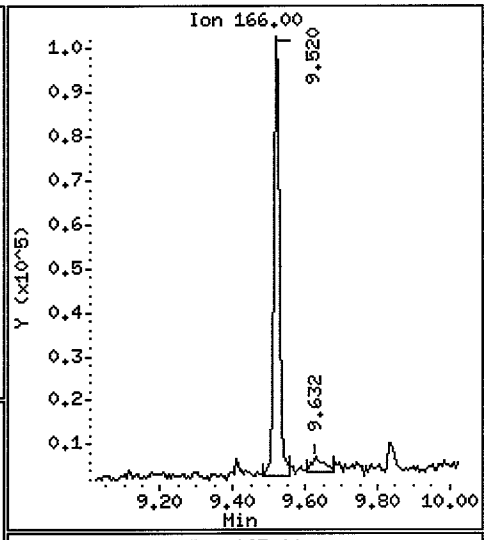
Concentration: 58.65 ug/kg

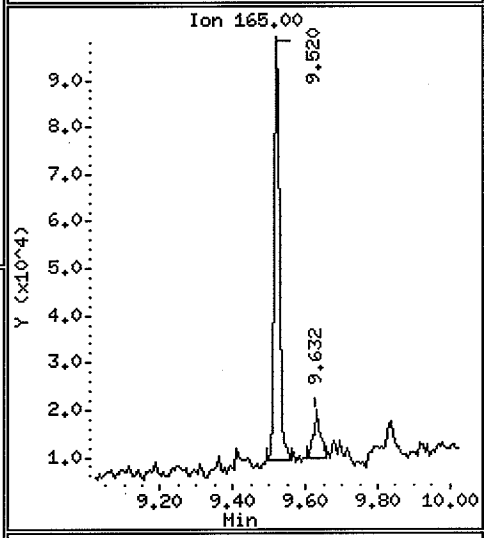


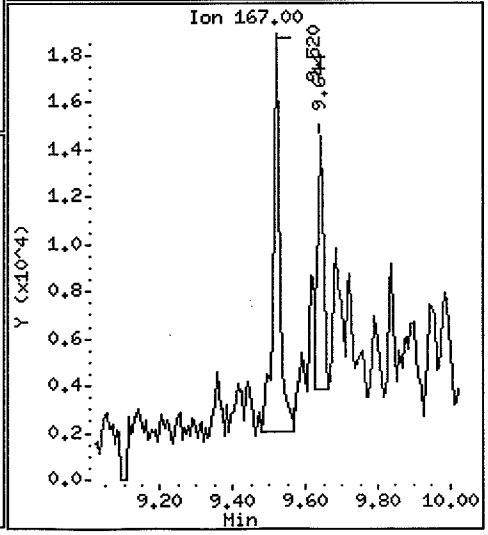












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

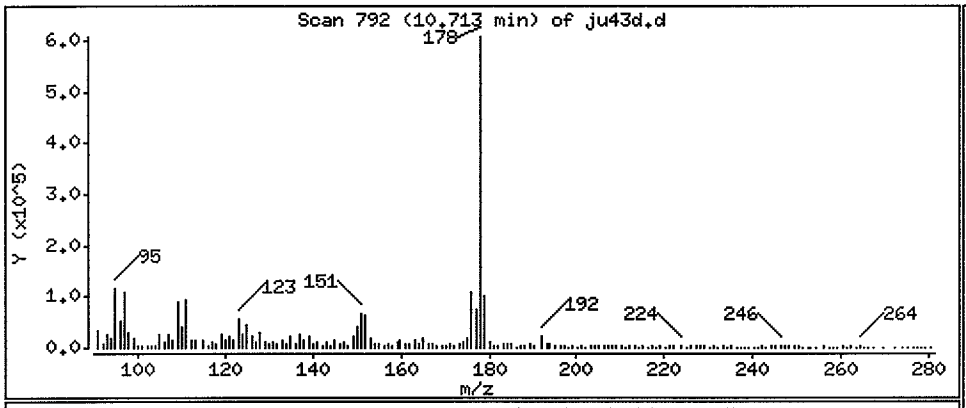
Operator: VTS

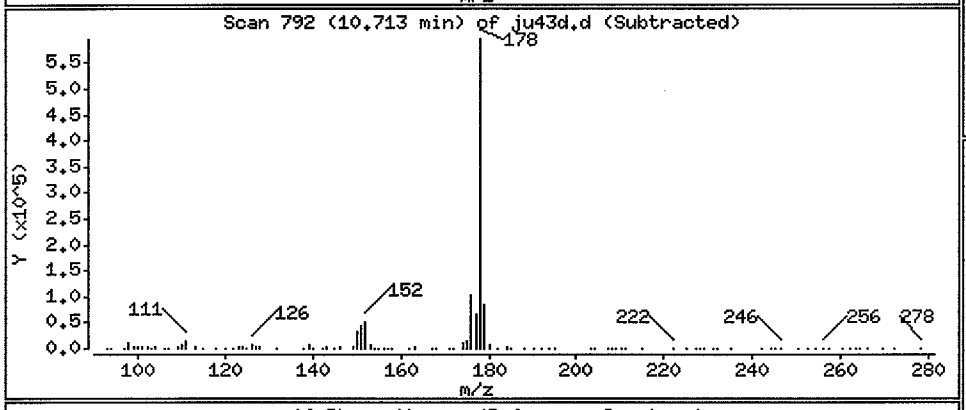
Column phase: ZB-5

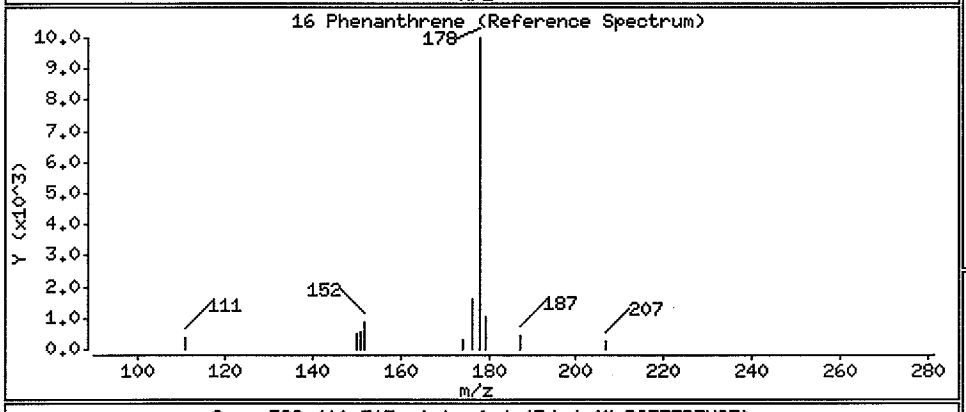
Column diameter: 0.25

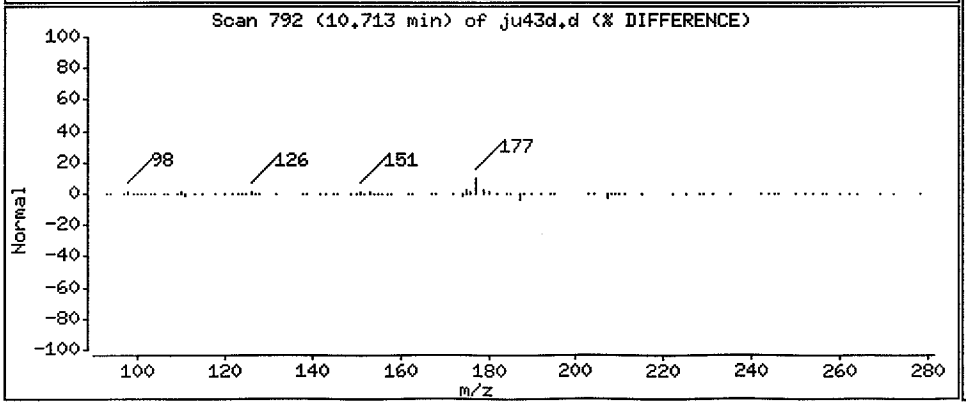
16 Phenanthrene

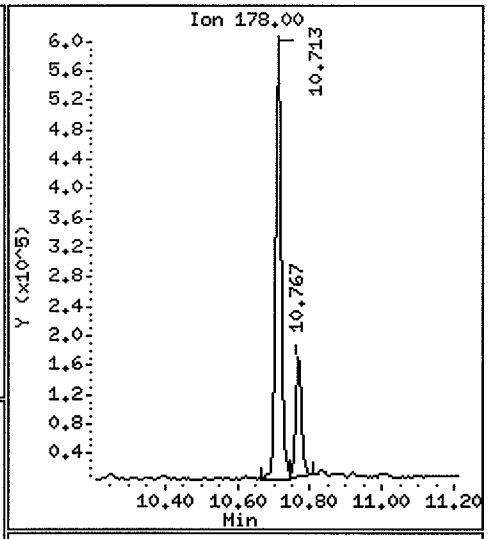
Concentration: 275.3 ug/kg

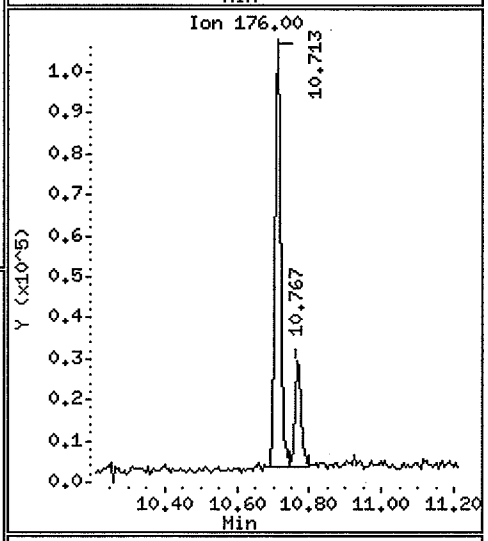


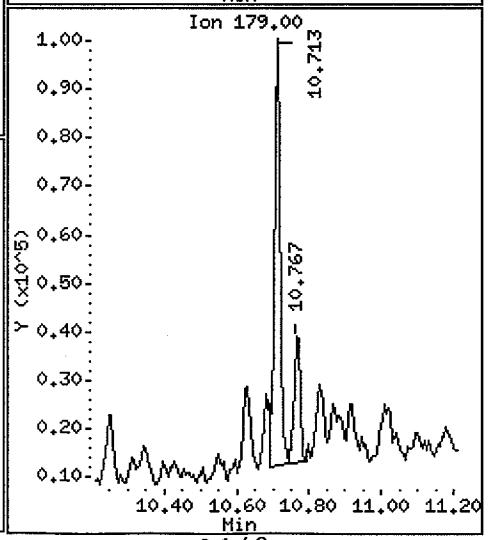












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

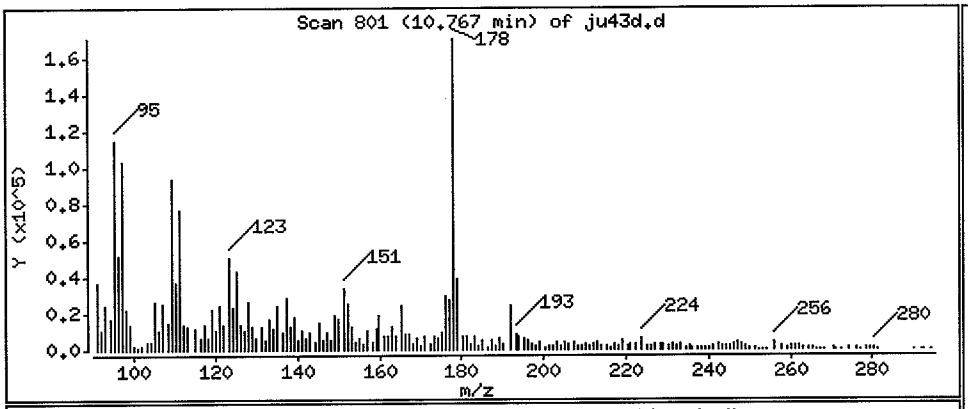
Operator: VTS

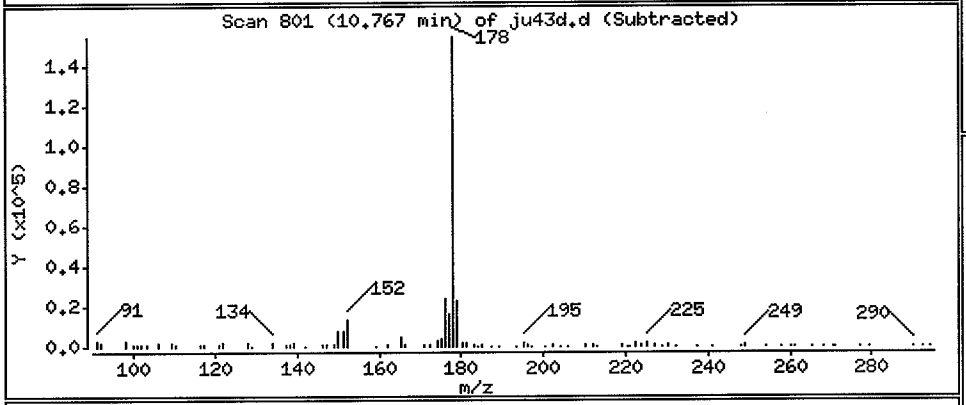
Column phase: ZB-5

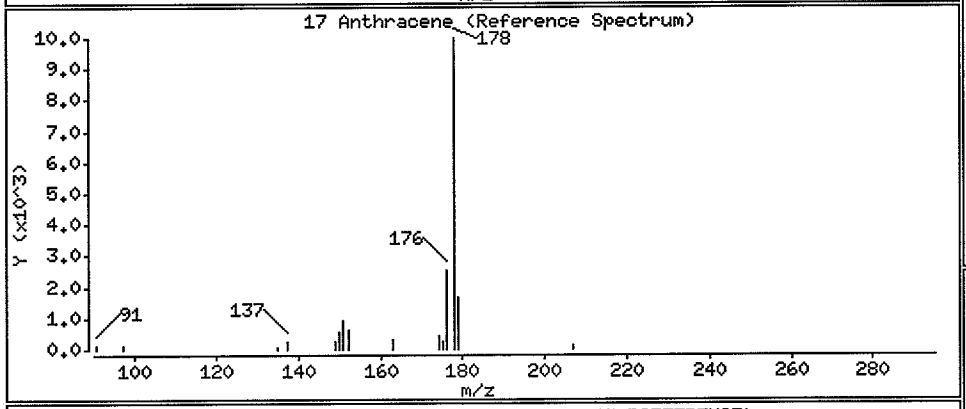
Column diameter: 0.25

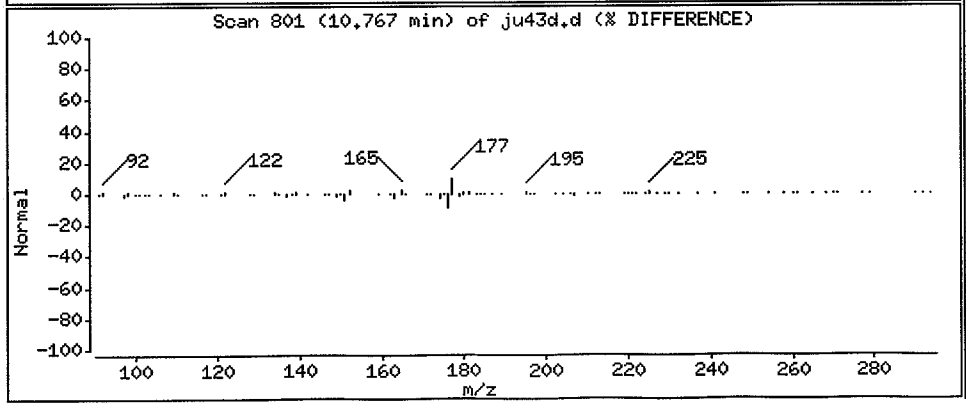
17 Anthracene

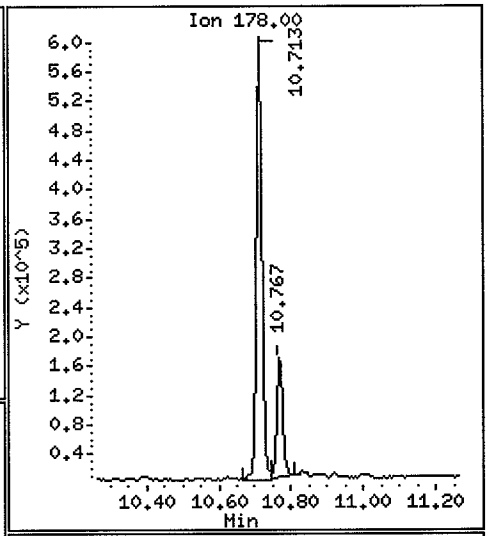
Concentration: 77.32 ug/kg

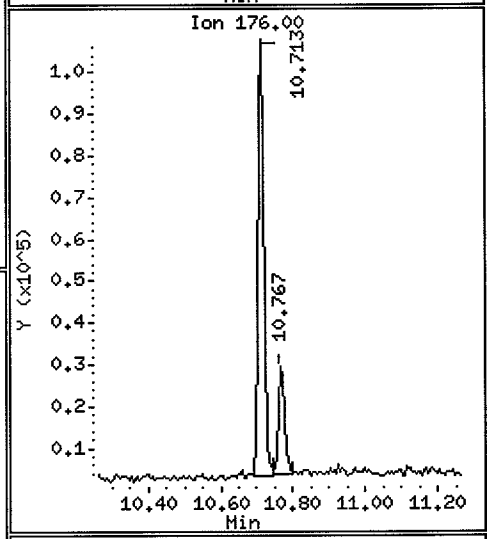


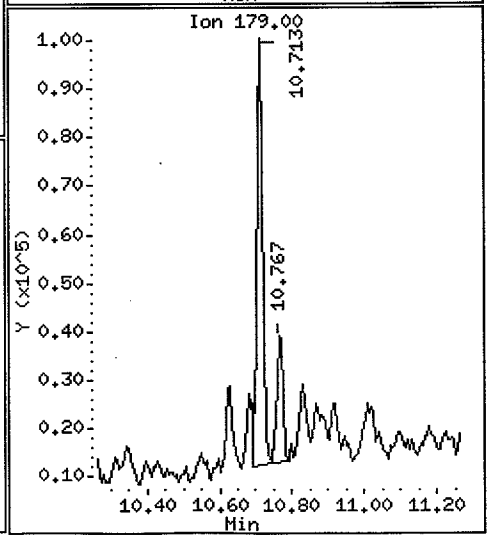












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

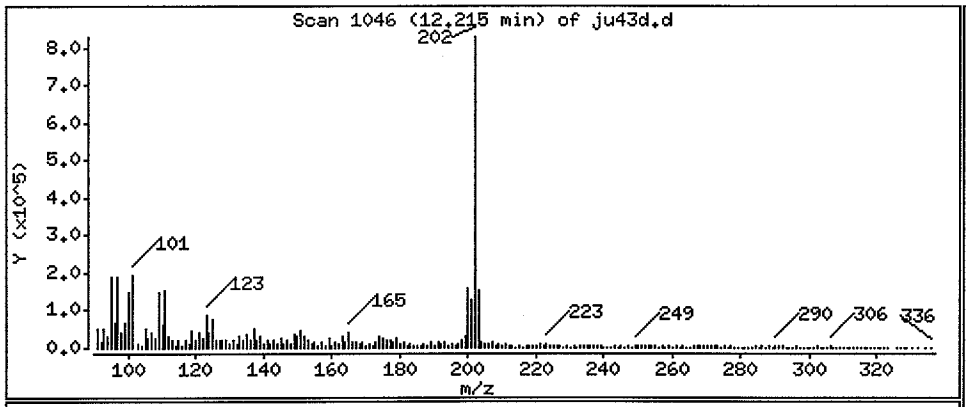
Operator: VTS

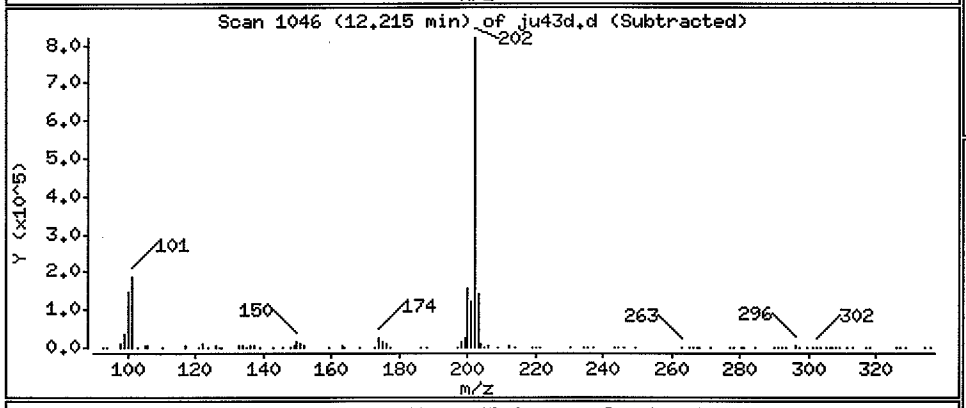
Column phase: ZB-5

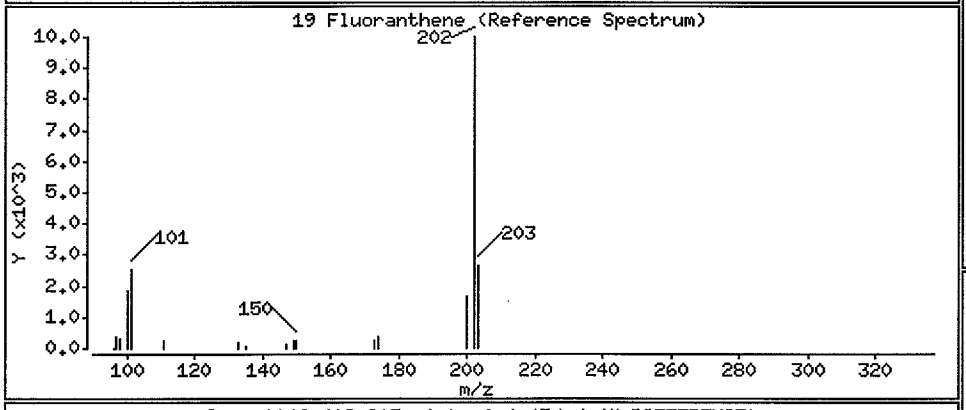
Column diameter: 0.25

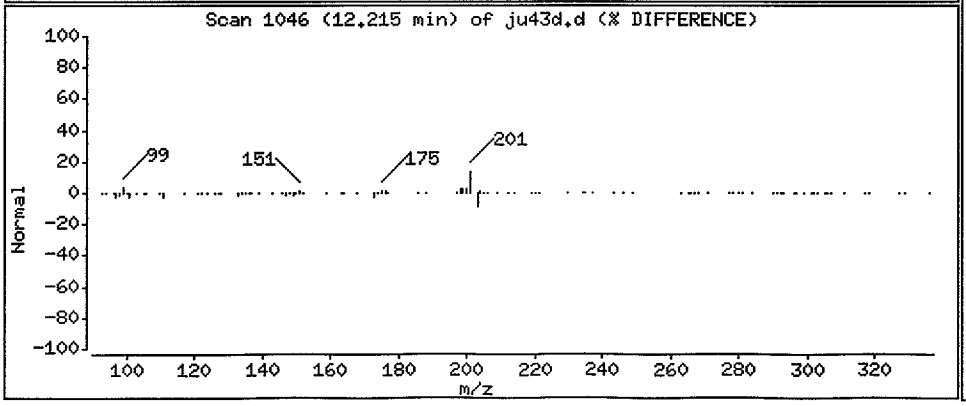
19 Fluoranthene

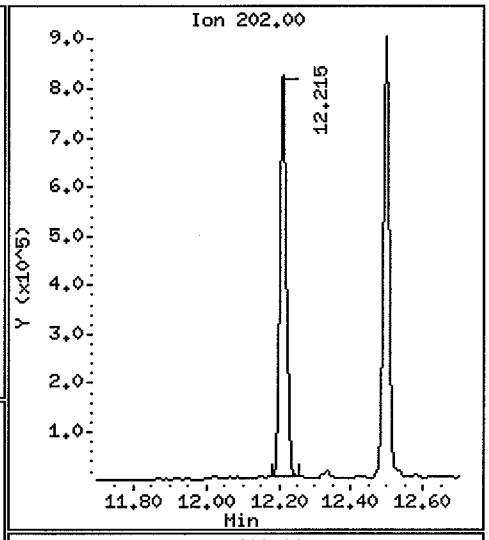
Concentration: 470.3 ug/kg

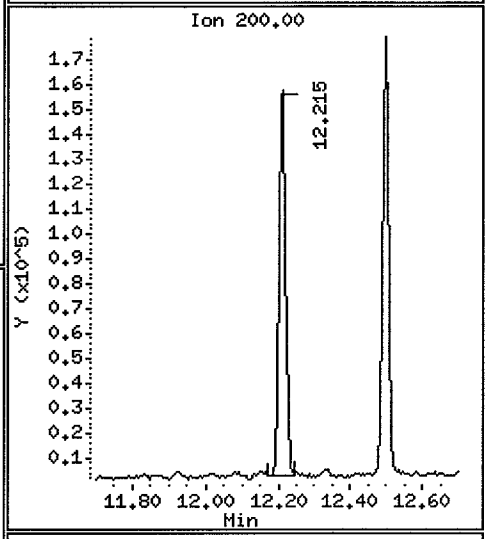


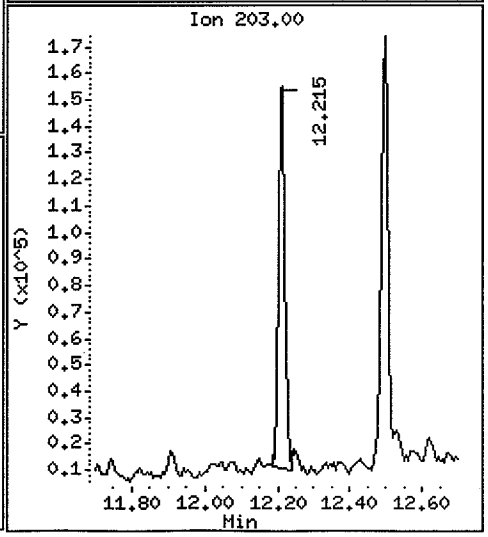












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

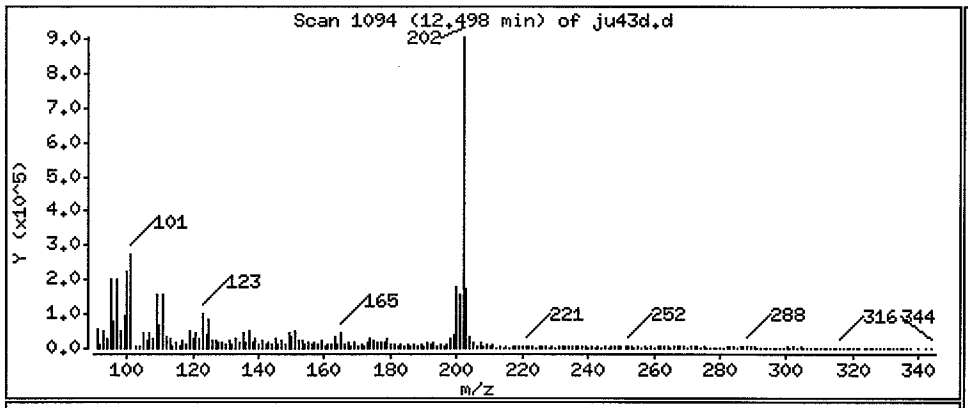
Operator: VTS

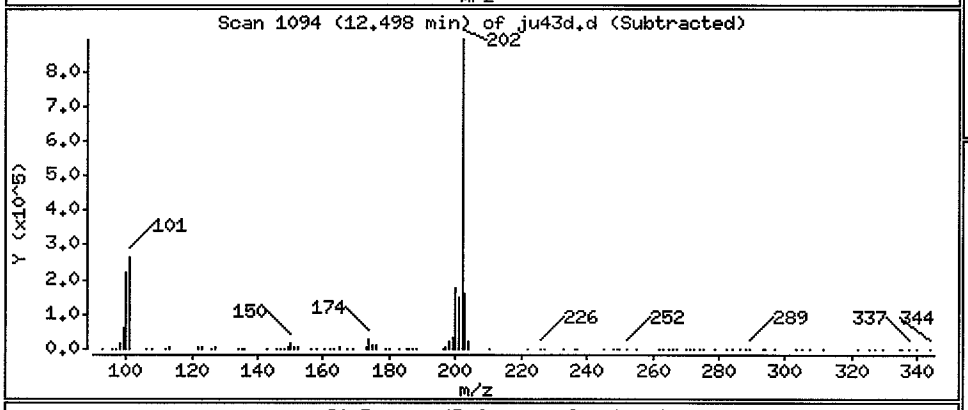
Column phase: ZB-5

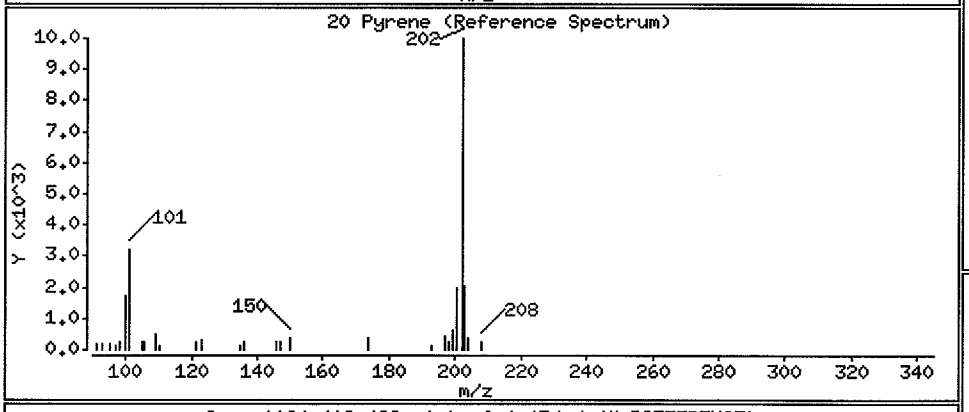
Column diameter: 0.25

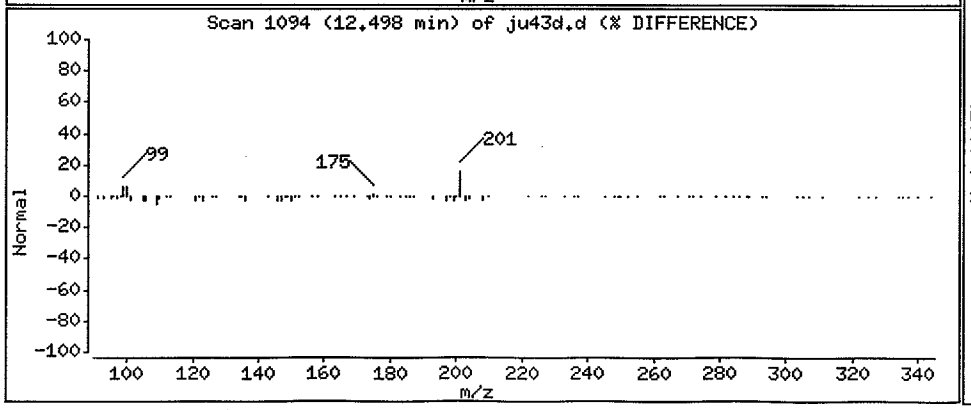
20 Pyrene

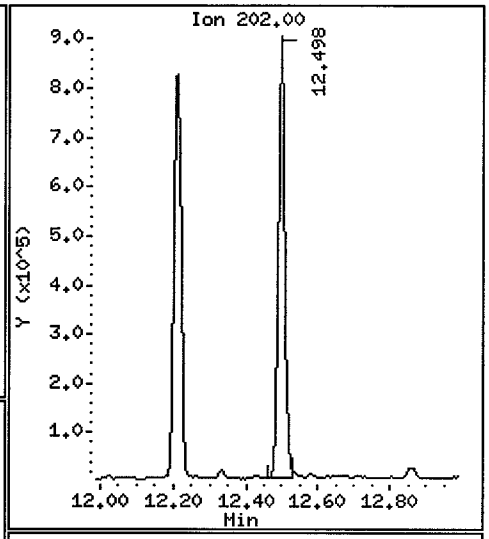
Concentration: 481.7 ug/kg

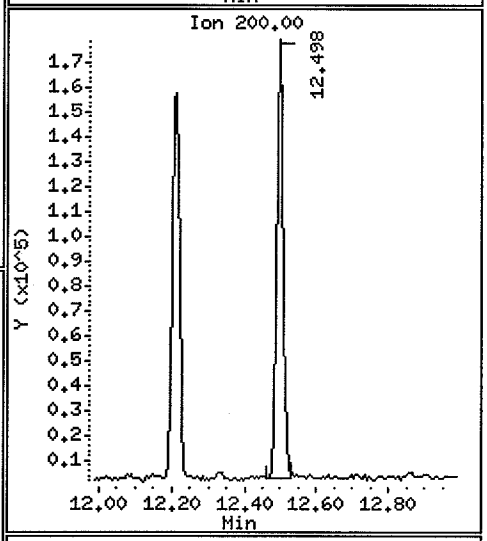


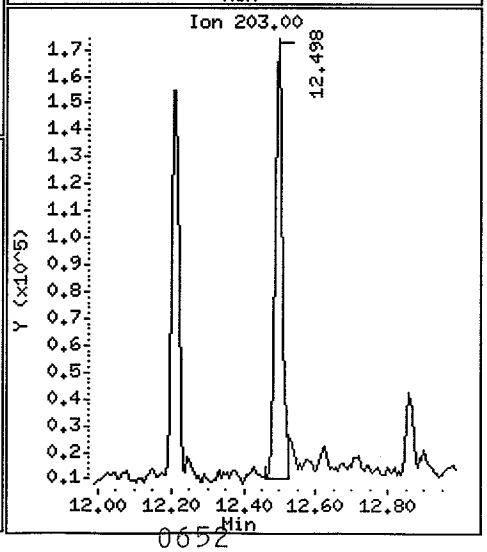












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

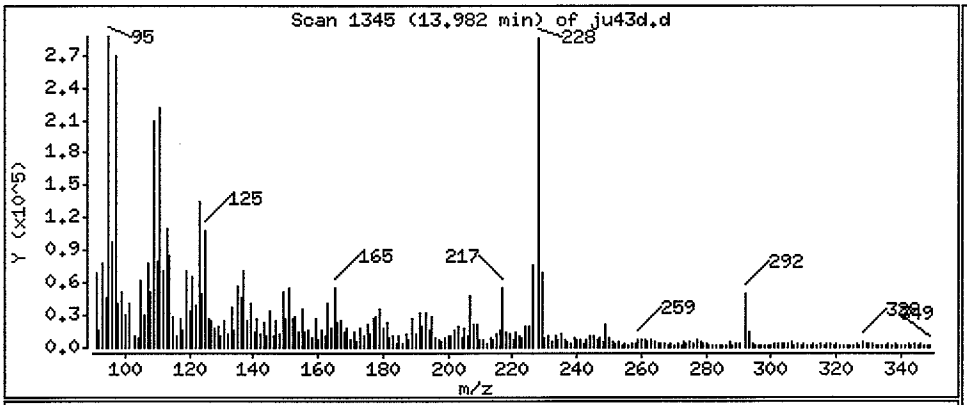
Operator: VTS

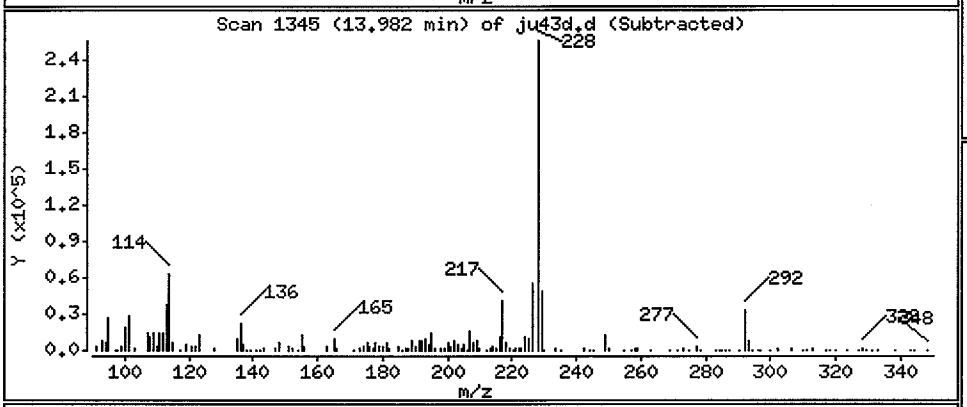
Column phase: ZB-5

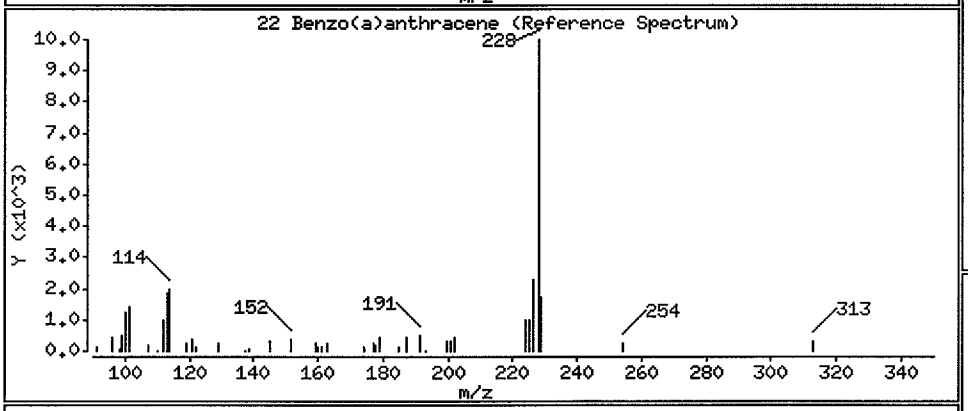
Column diameter: 0.25

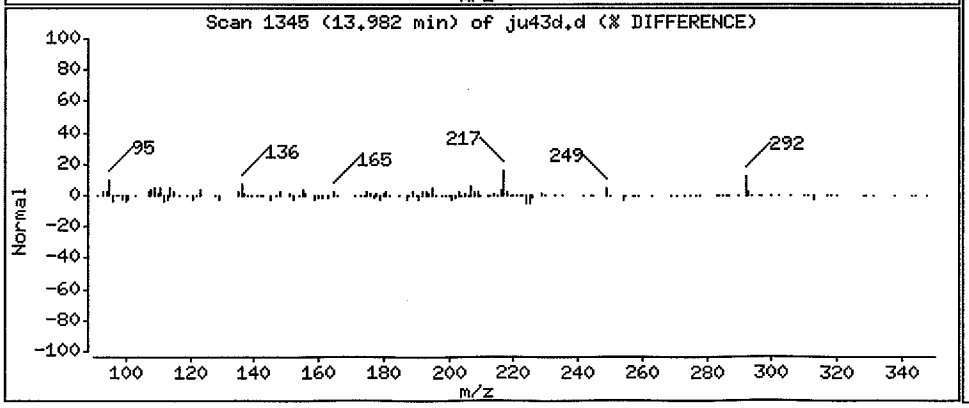
22 Benzo(a)anthracene

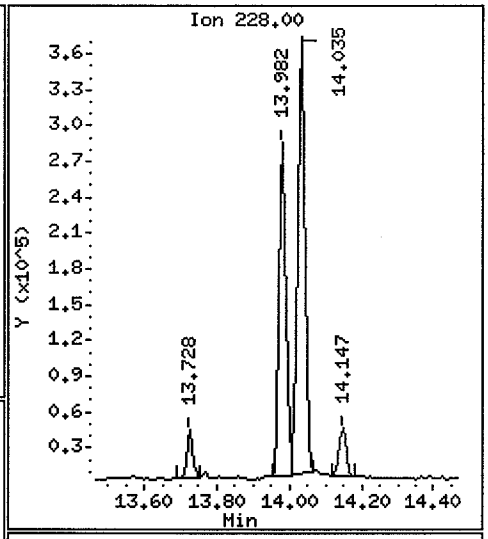
Concentration: 186.5 ug/kg

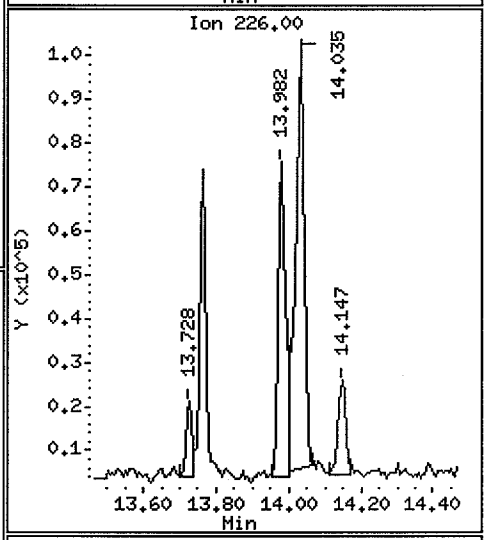


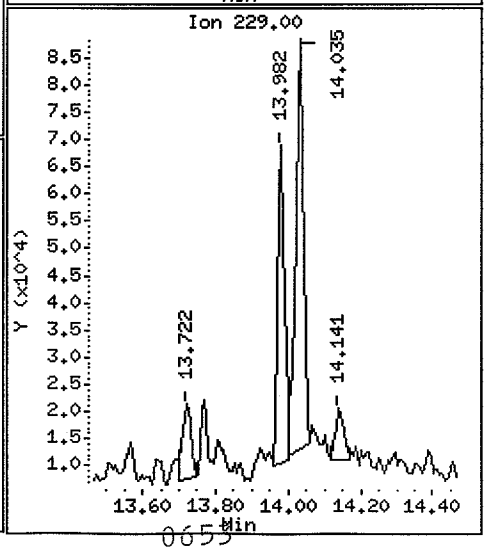












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

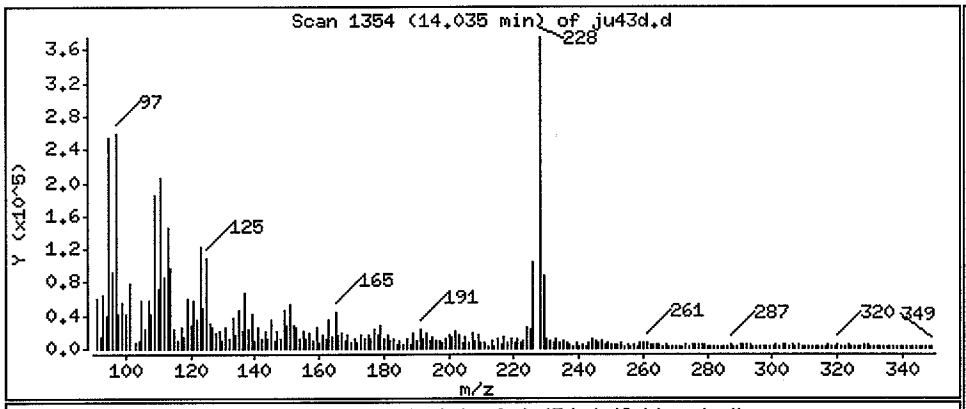
Operator: VTS

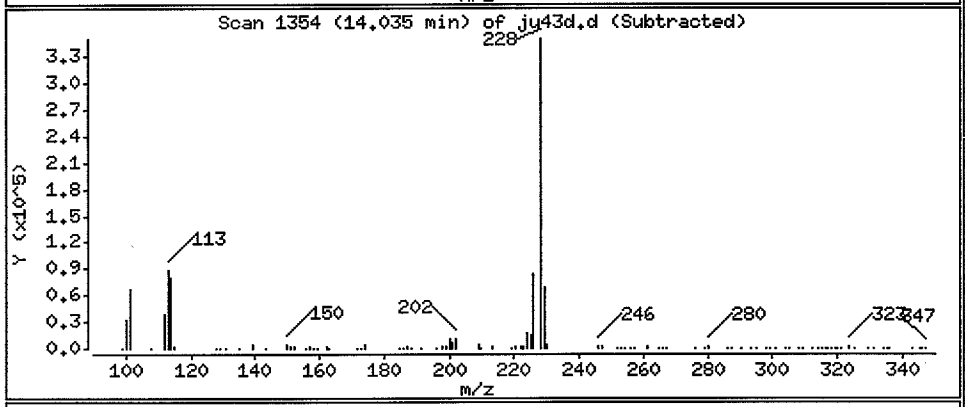
Column phase: ZB-5

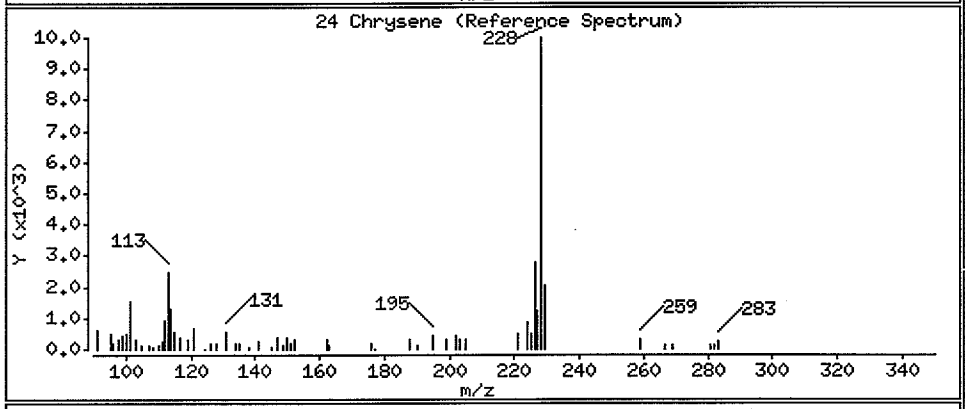
Column diameter: 0.25

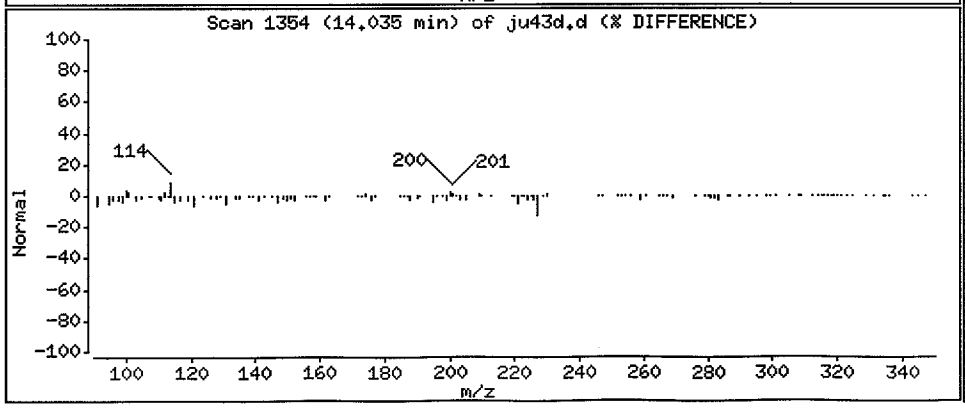
24 Chrysene

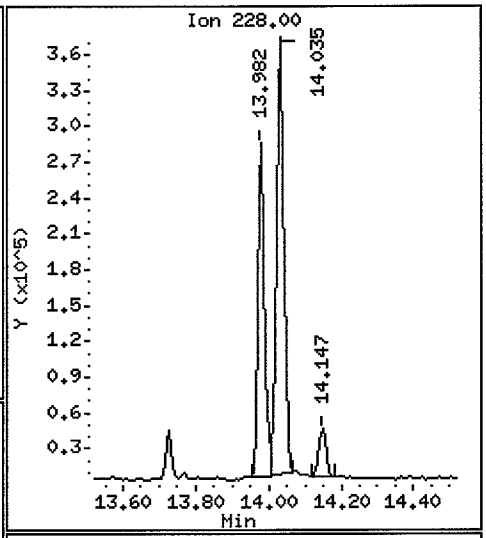
Concentration: 269.8 ug/kg

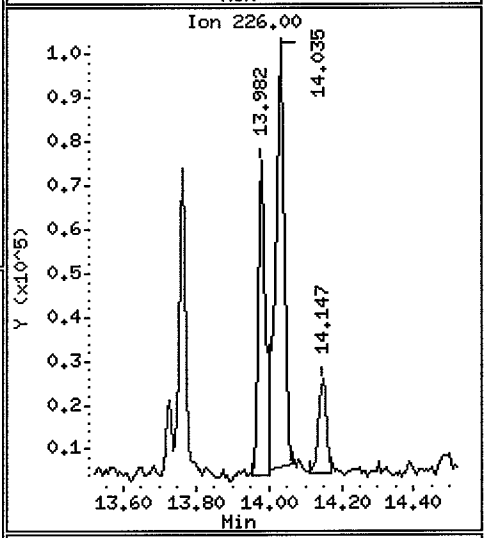


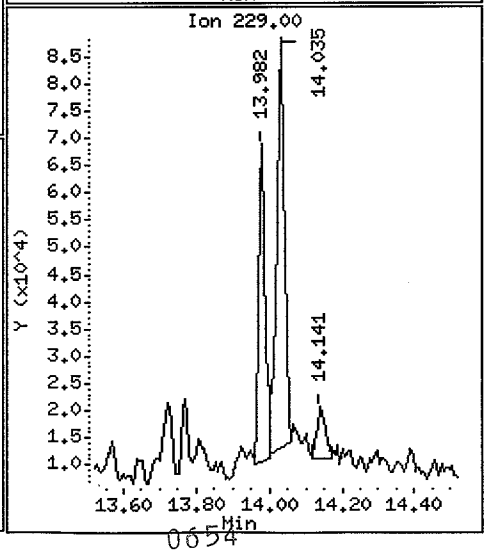












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

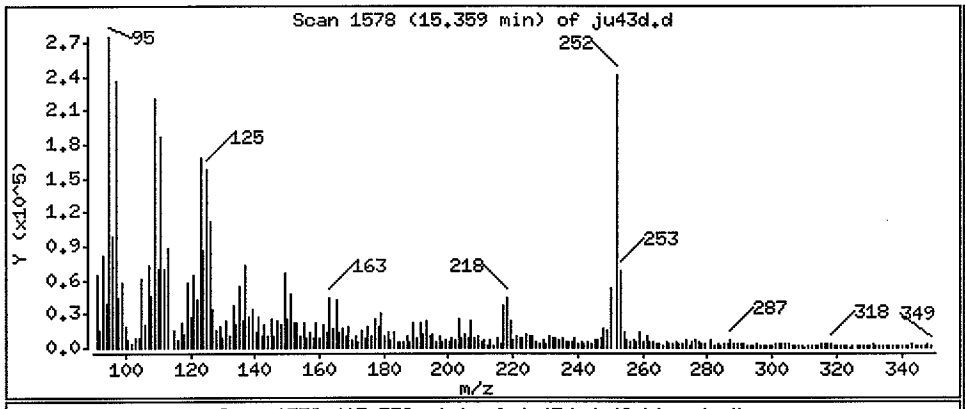
Operator: VTS

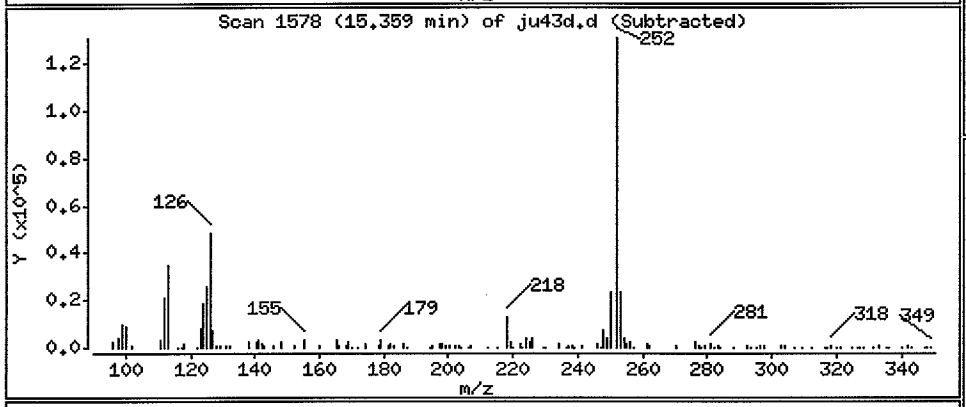
Column phase: ZB-5

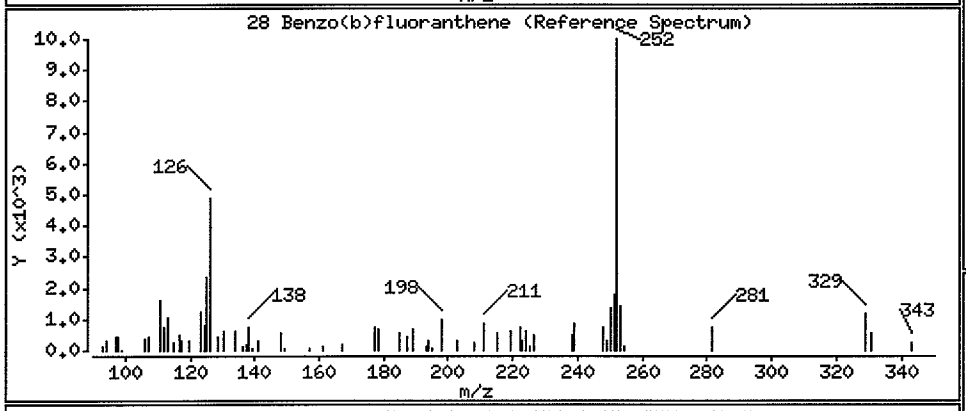
Column diameter: 0.25

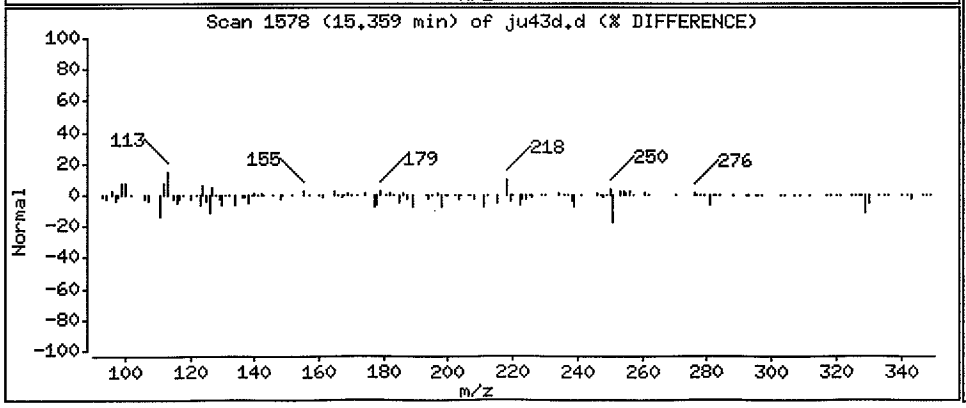
28 Benzo(b)fluoranthene

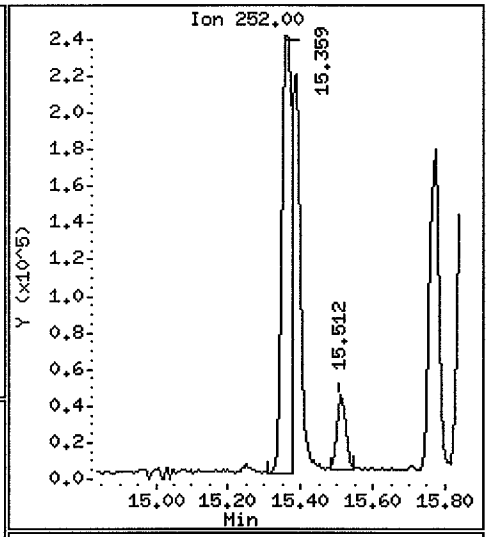
Concentration: 216.4 ug/kg

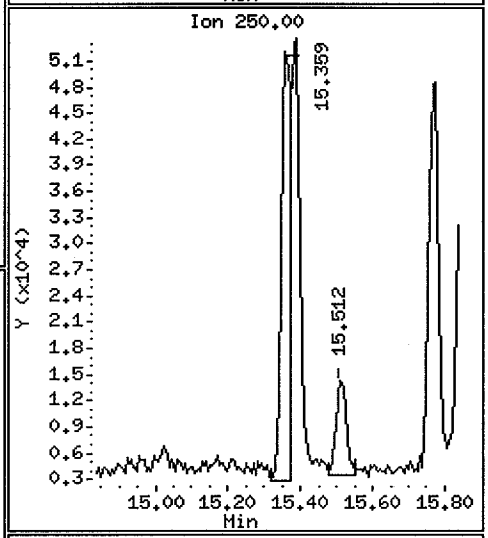


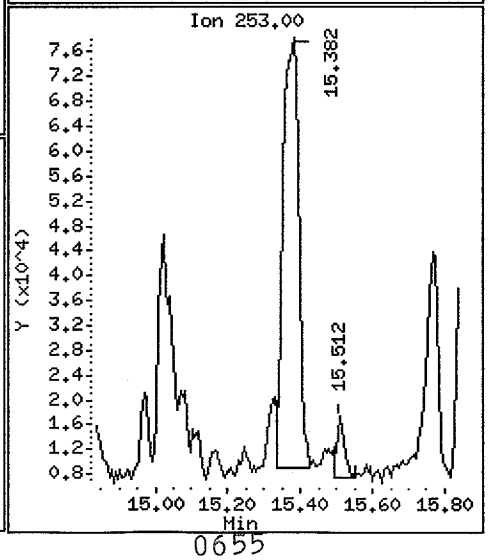












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

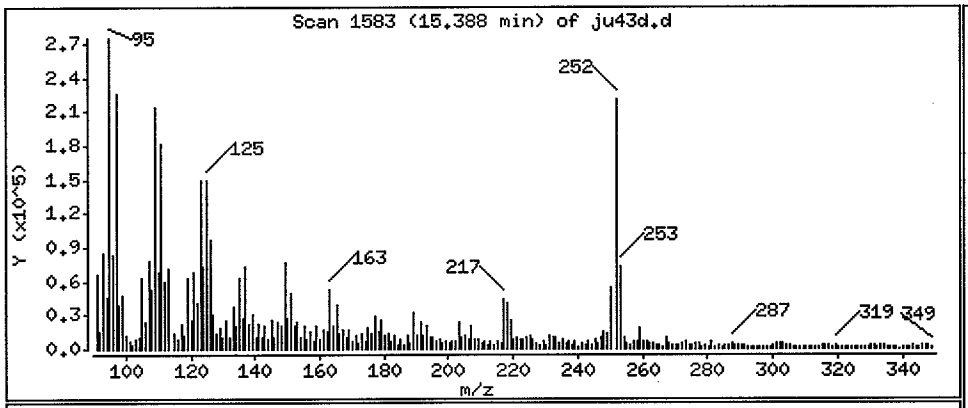
Operator: VTS

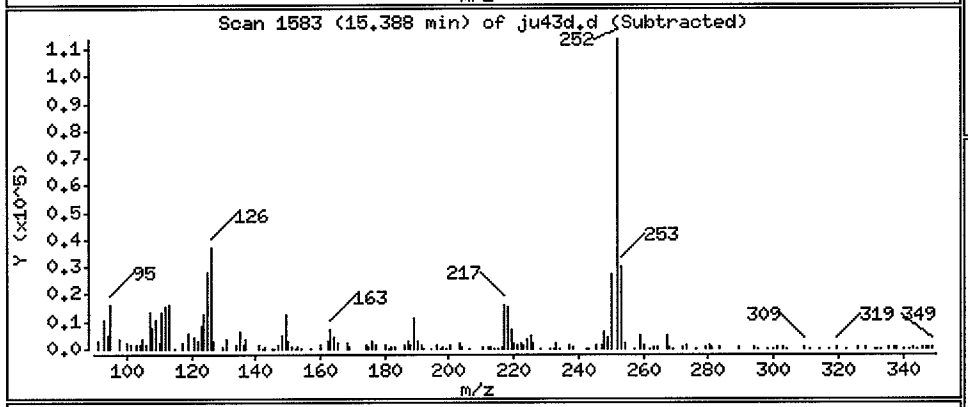
Column phase: ZB-5

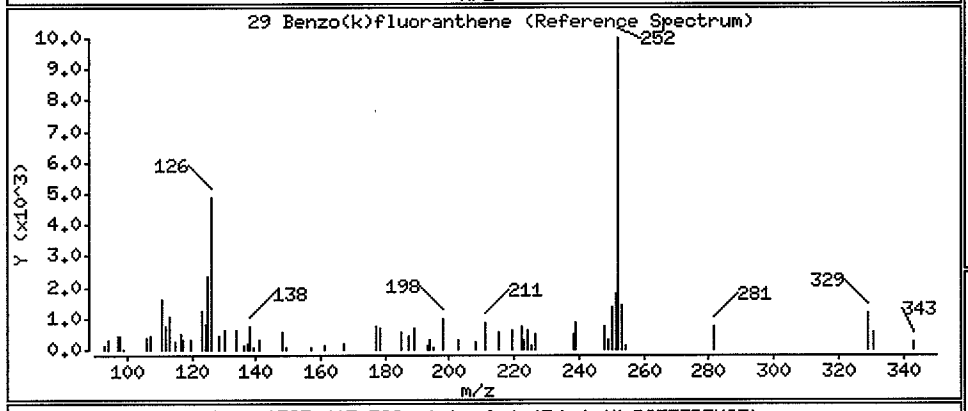
Column diameter: 0.25

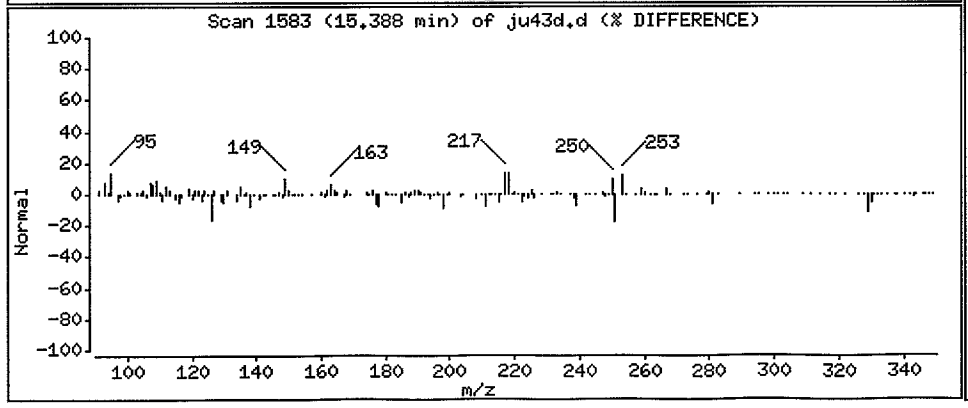
29 Benzo(k)fluoranthene

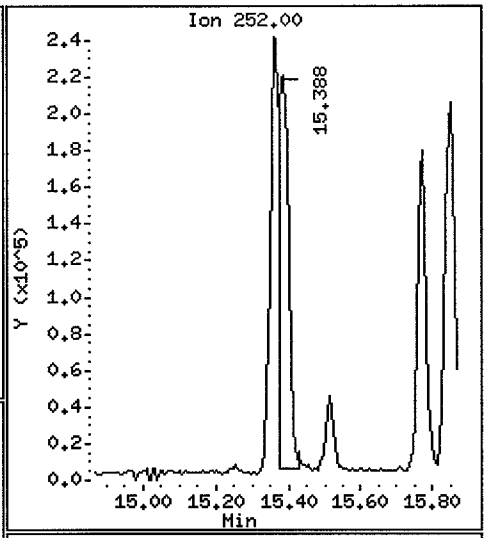
Concentration: 171.5 ug/kg

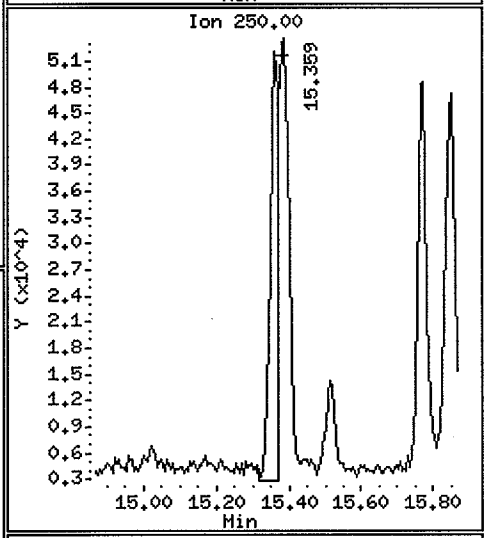


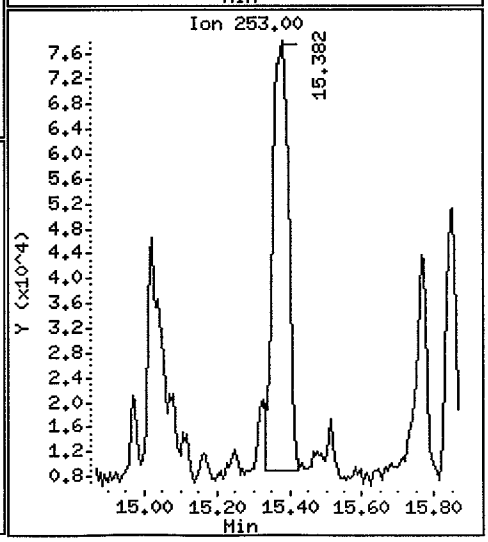












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

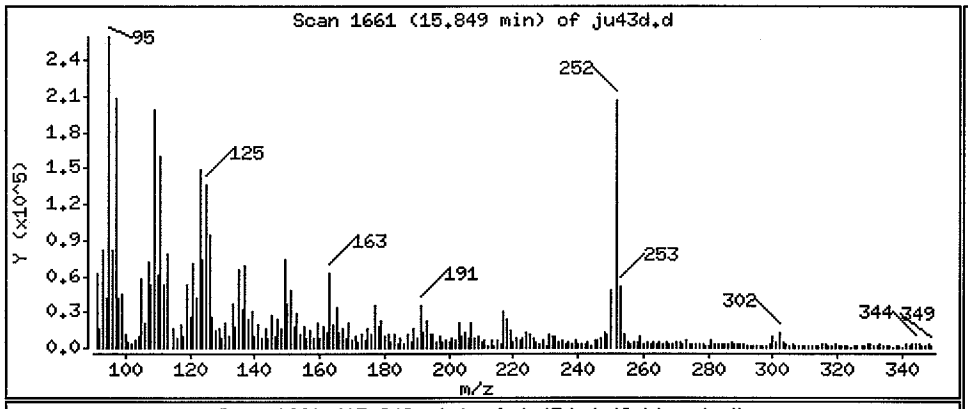
Operator: VTS

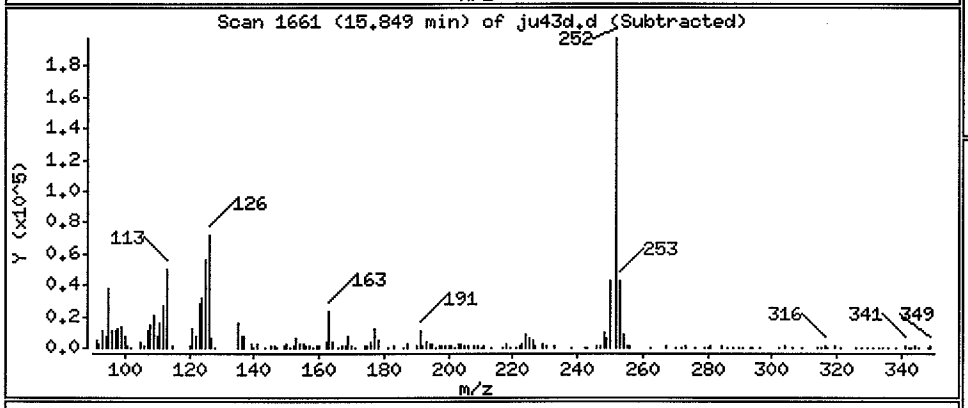
Column phase: ZB-5

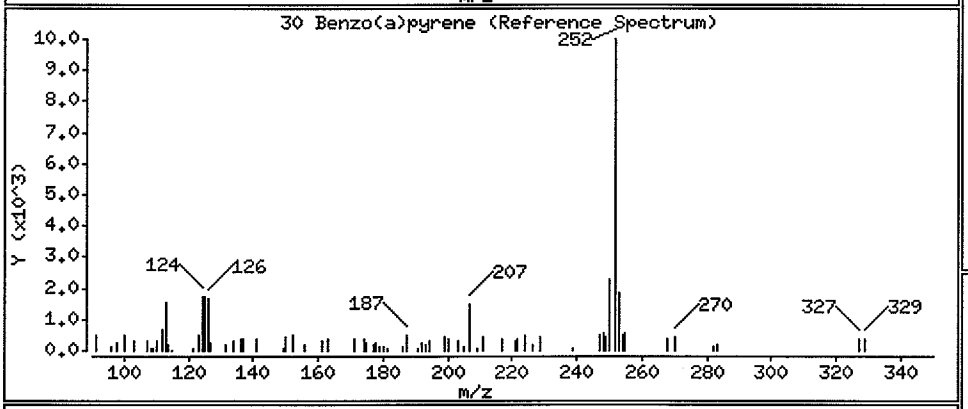
Column diameter: 0.25

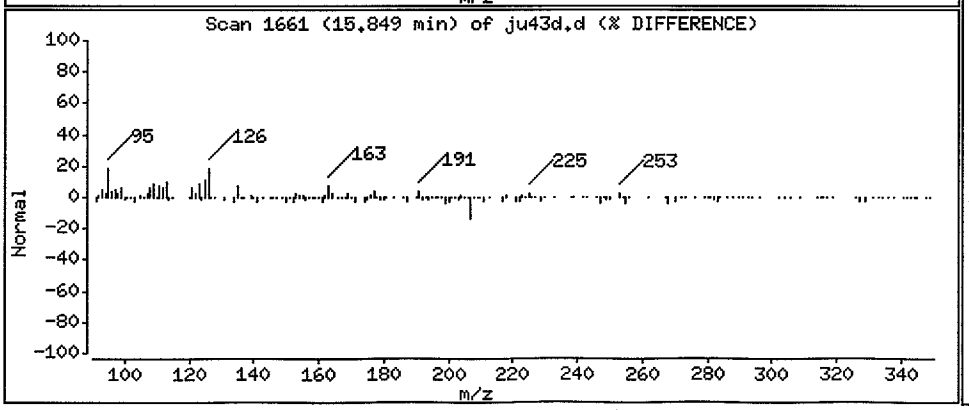
30 Benzo(a)pyrene

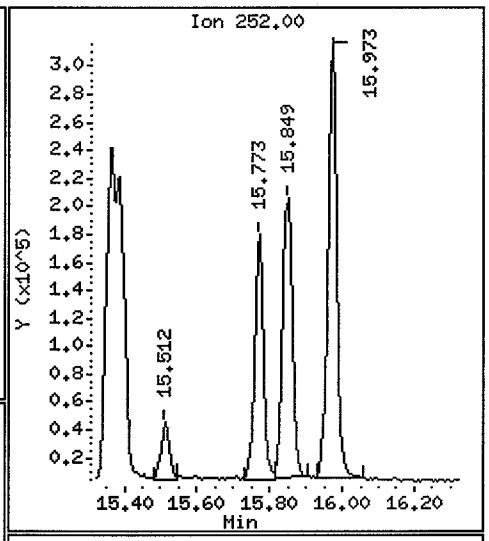
Concentration: 201.0 ug/kg

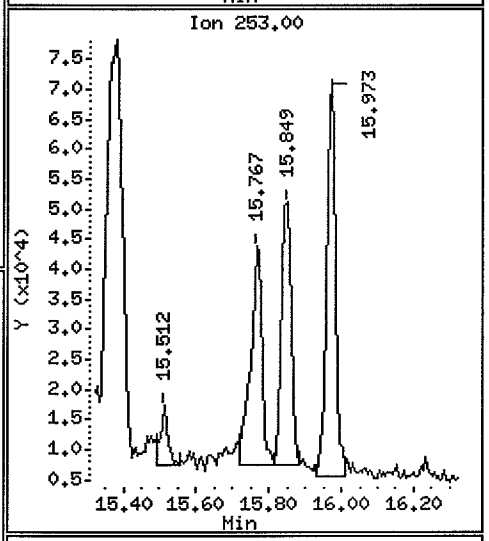


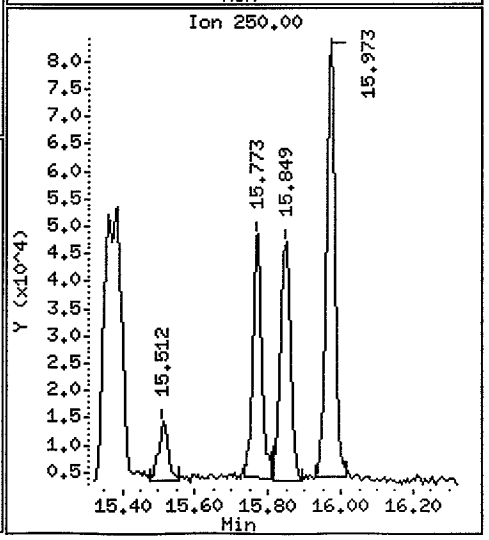












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

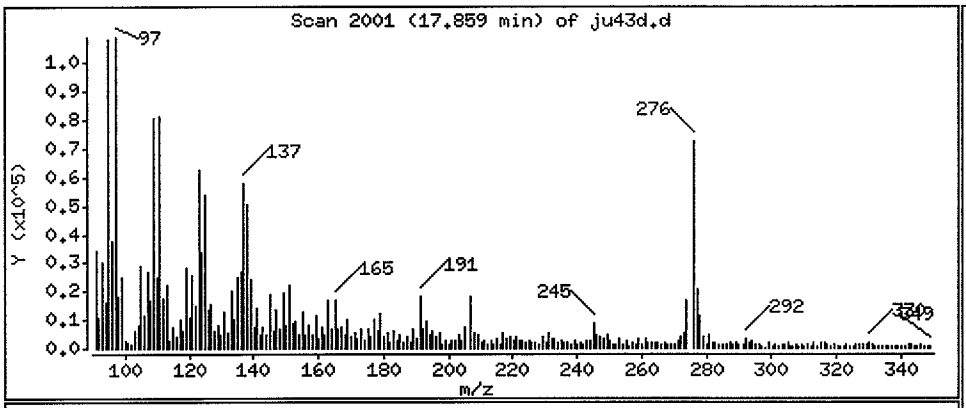
Operator: VTS

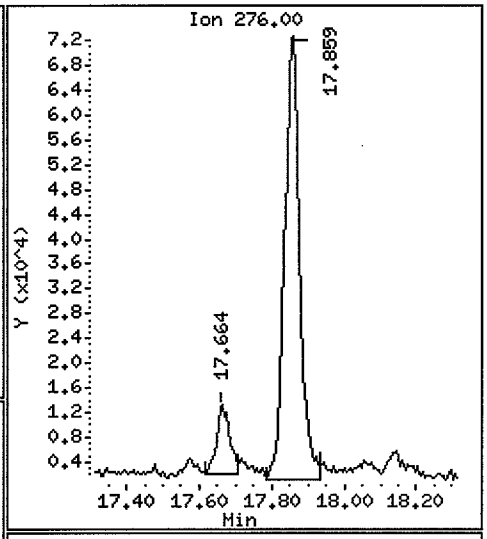
Column phase: ZB-5

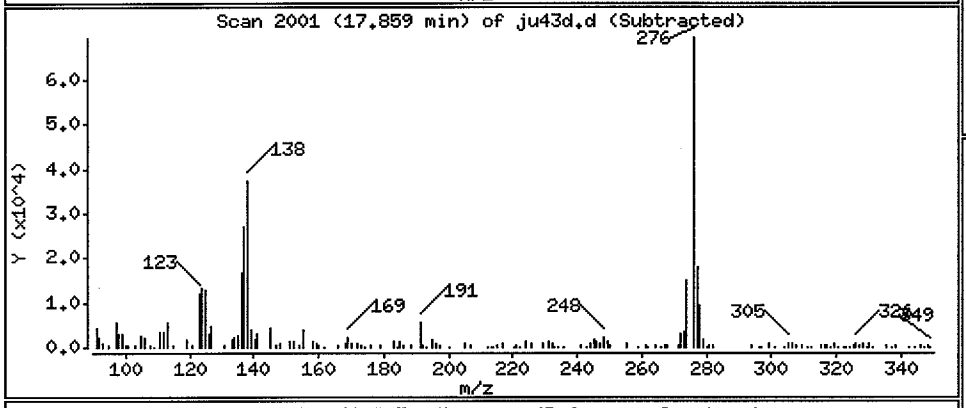
Column diameter: 0.25

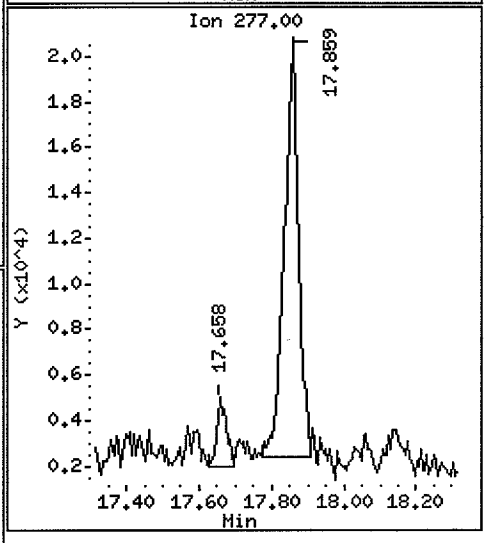
33 Indeno(1,2,3-cd)pyrene

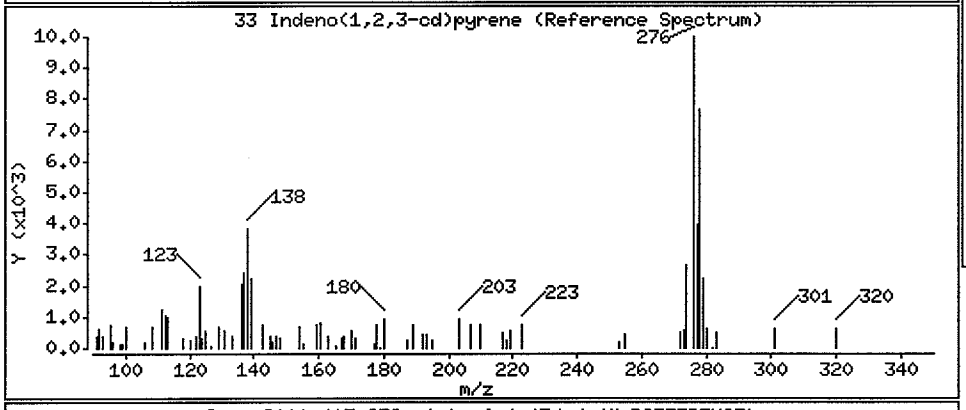
Concentration: 107.8 ug/kg

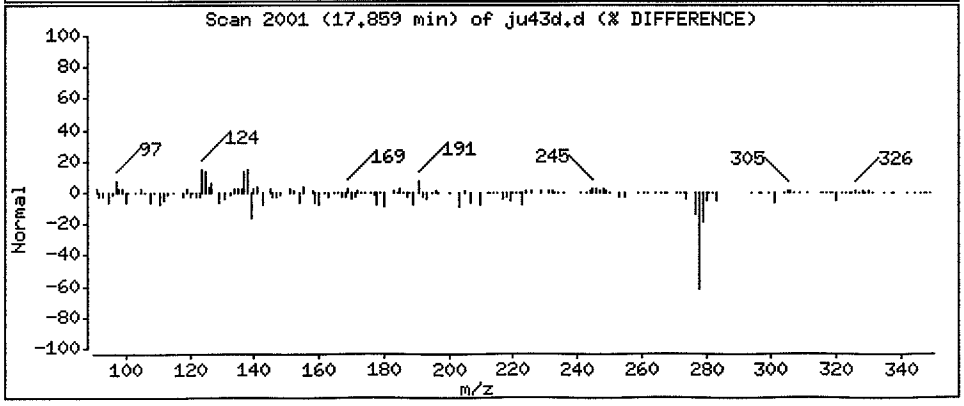












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

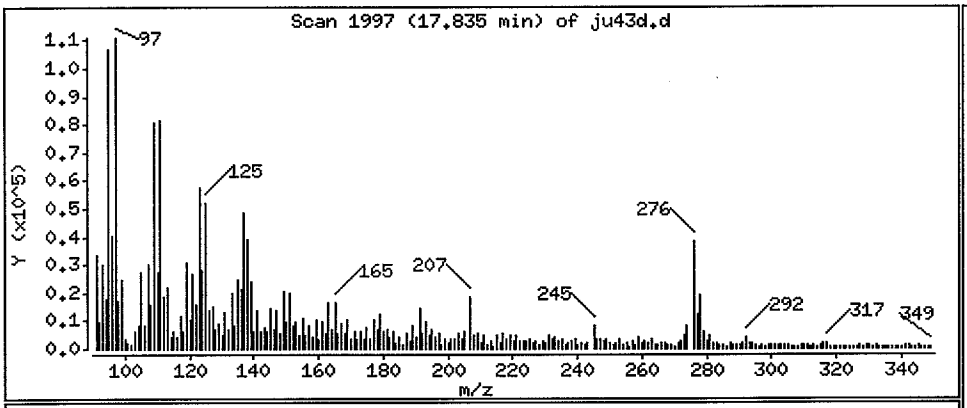
Operator: VTS

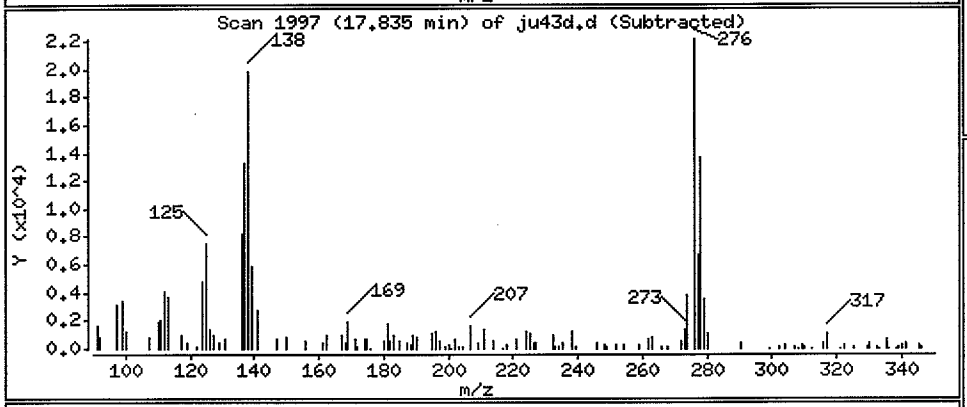
Column phase: ZB-5

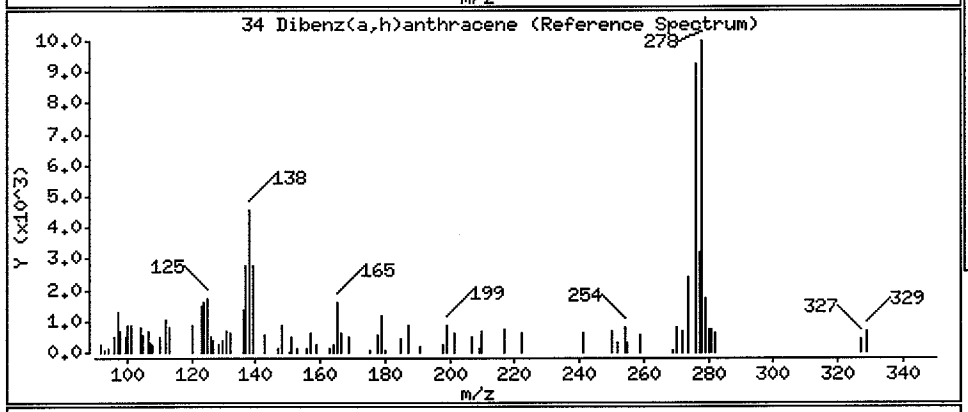
Column diameter: 0.25

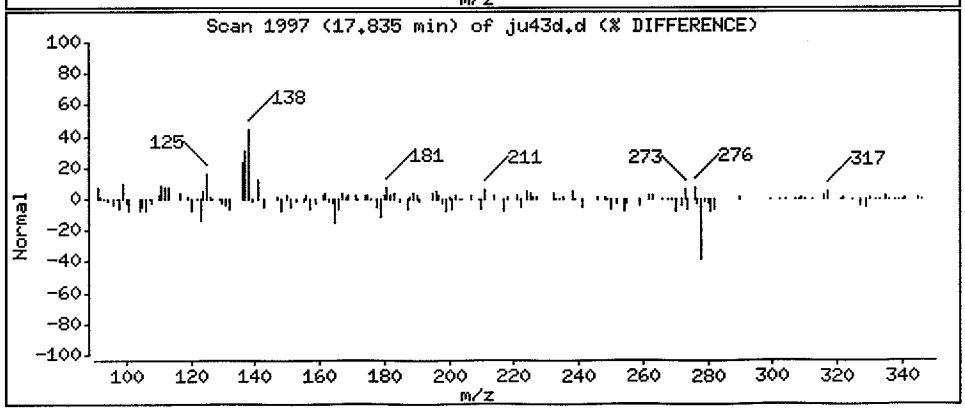
34 Dibenz(a,h)anthracene

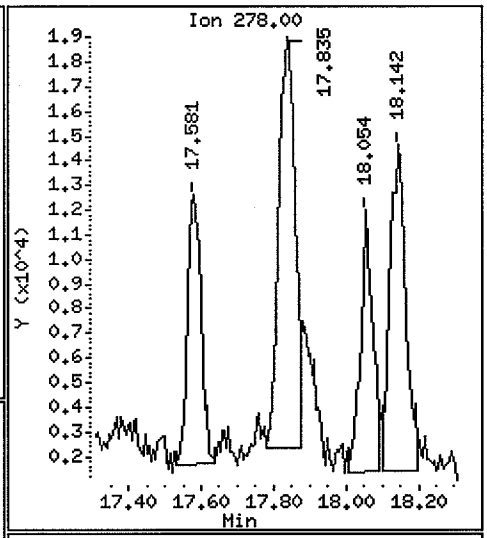
Concentration: 33.07 ug/kg

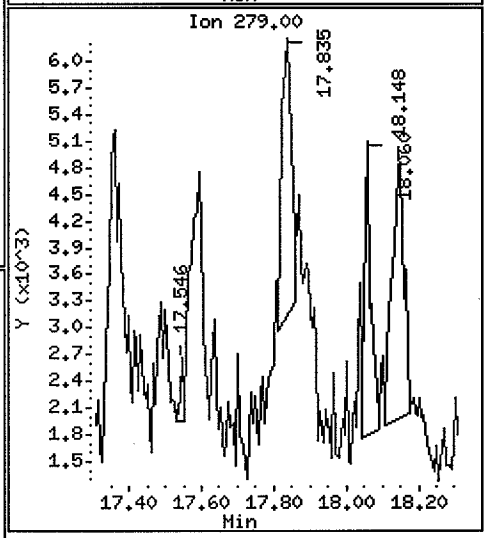












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

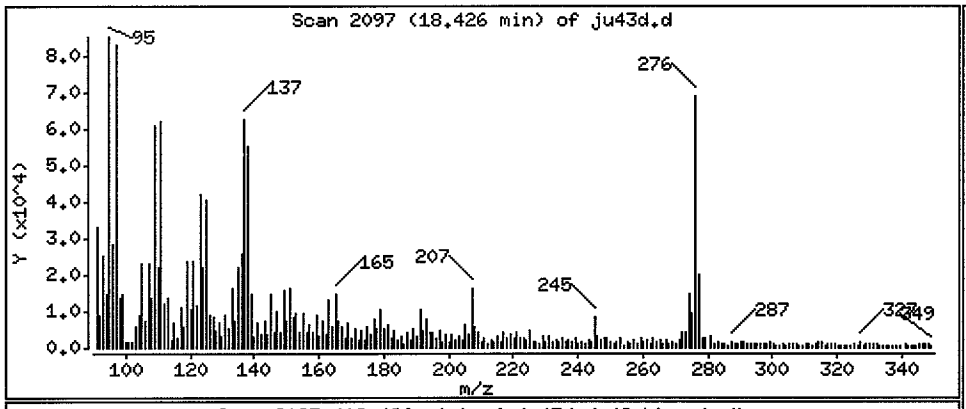
Operator: VTS

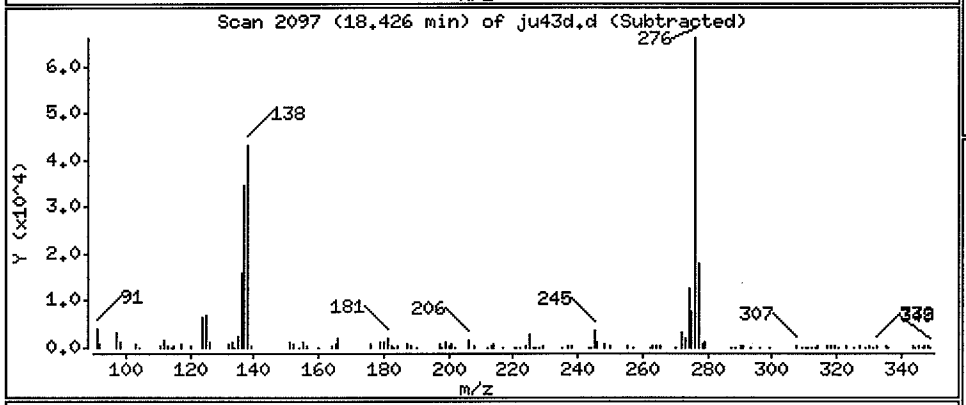
Column phase: ZB-5

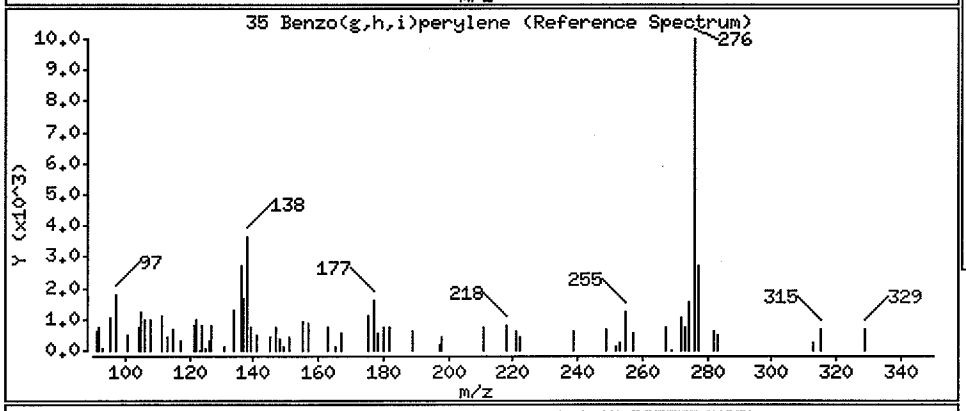
Column diameter: 0.25

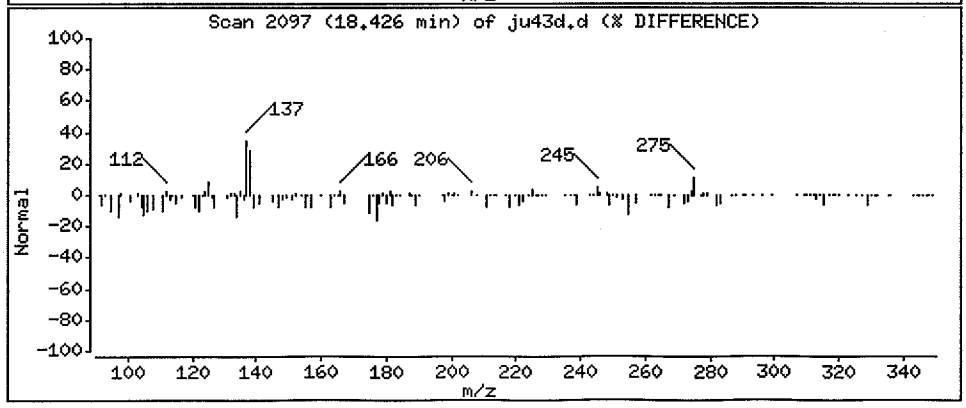
35 Benzo(g,h,i)perylene

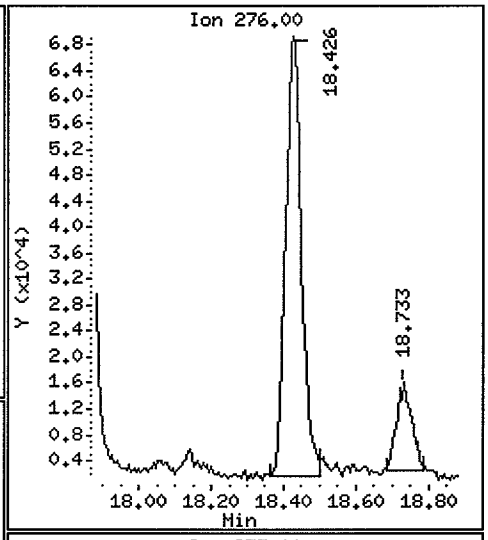
Concentration: 121.1 ug/kg

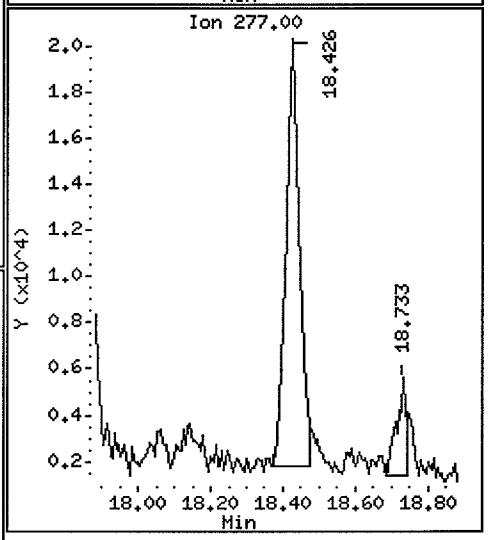












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

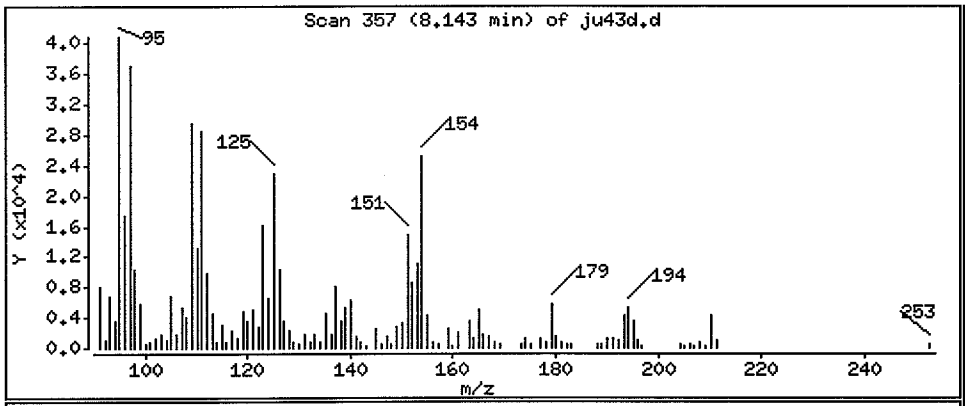
Operator: VTS

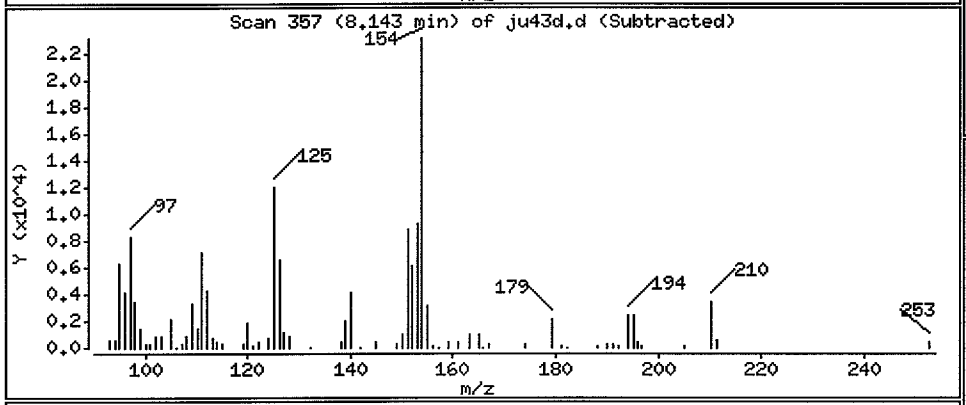
Column phase: ZB-5

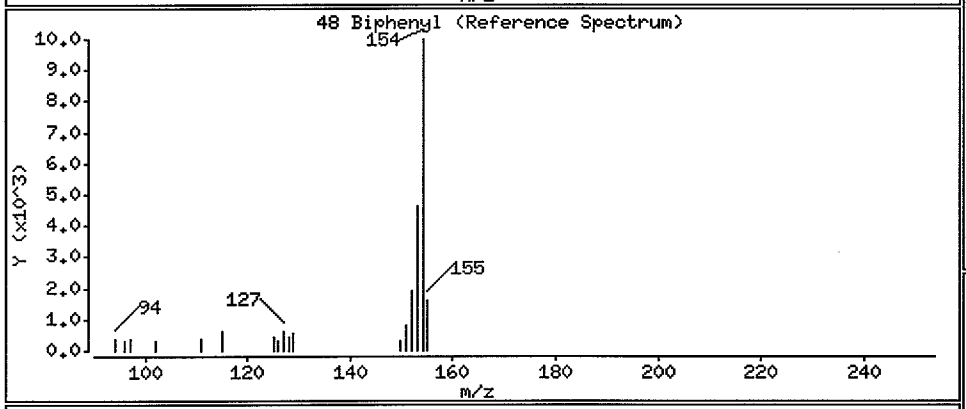
Column diameter: 0.25

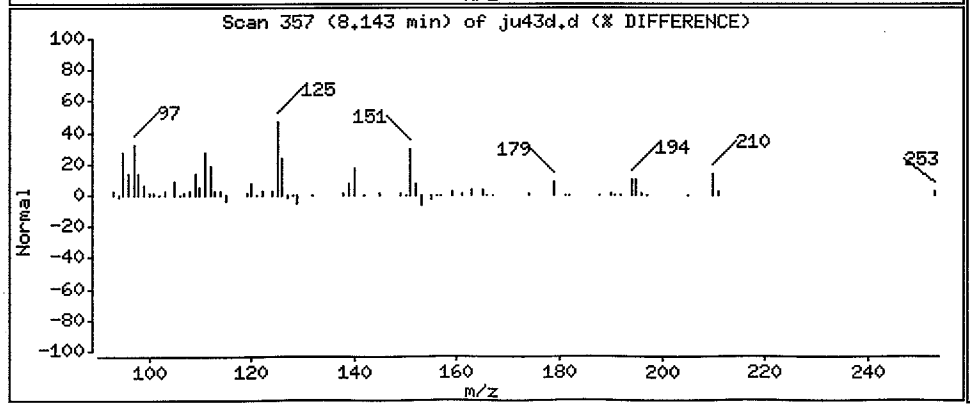
48 Biphenyl

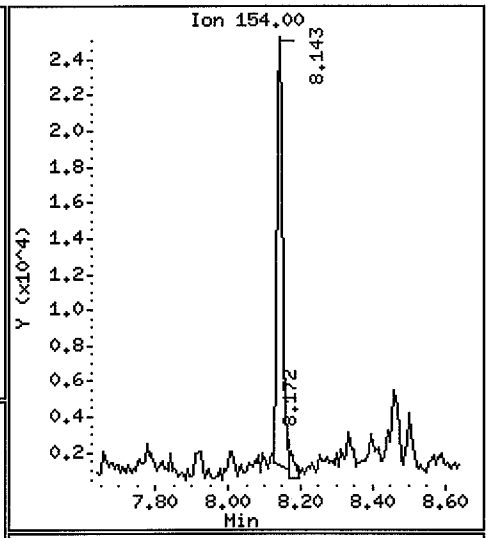
Concentration: 12.19 ug/kg

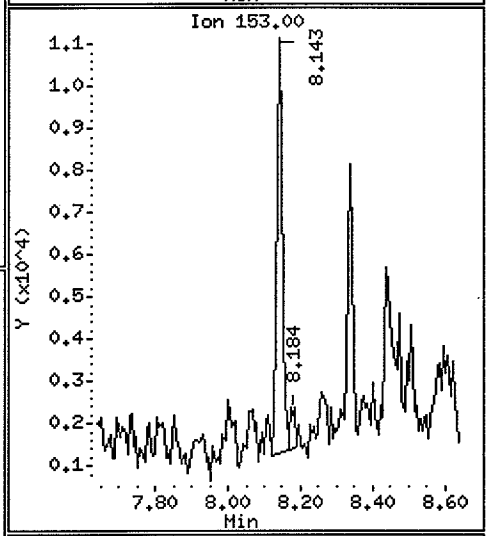


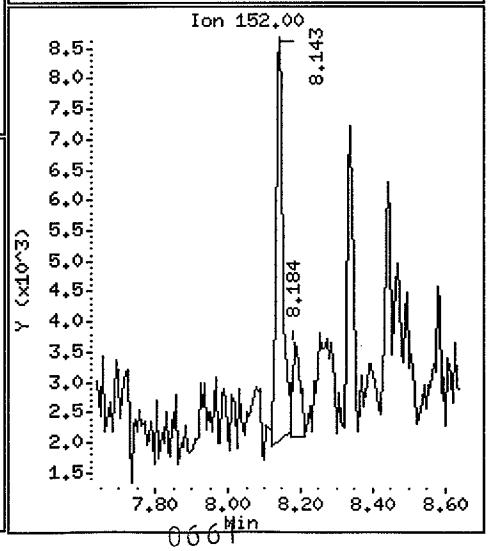












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

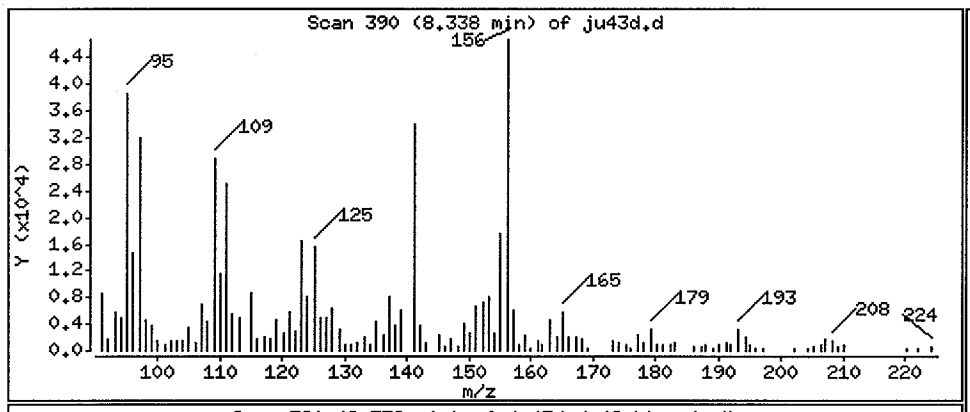
Operator: VTS

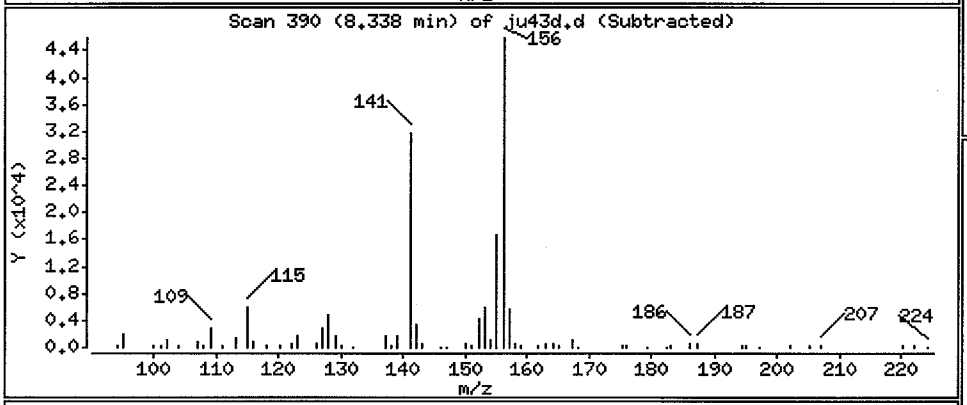
Column phase: ZB-5

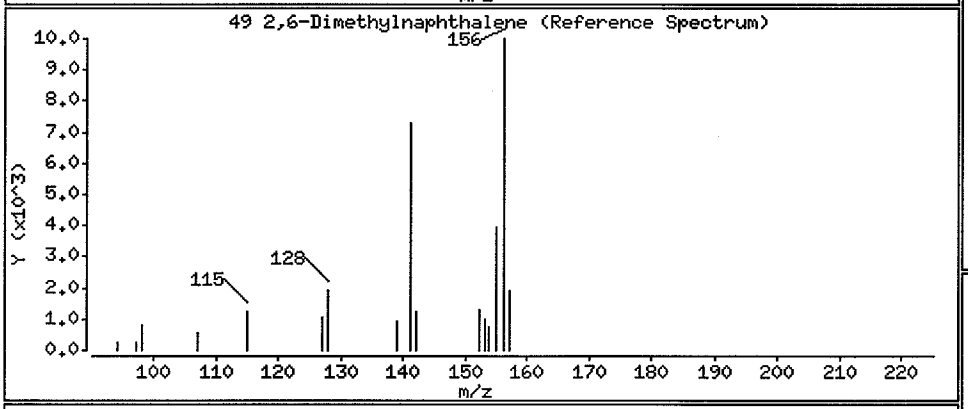
Column diameter: 0.25

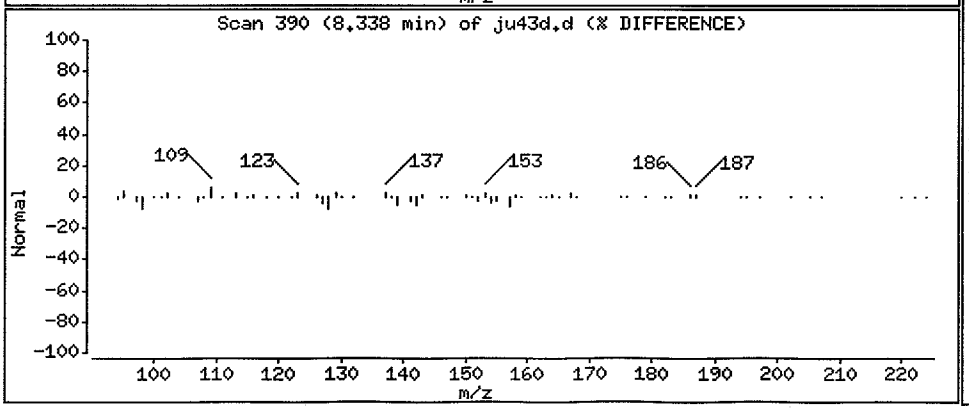
49 2,6-Dimethylnaphthalene

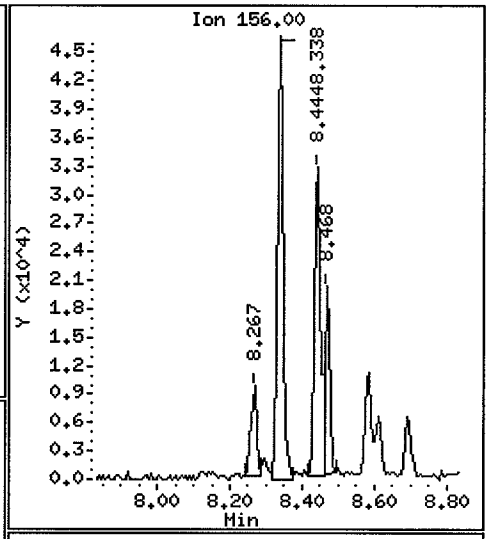
Concentration: 32.30 ug/kg

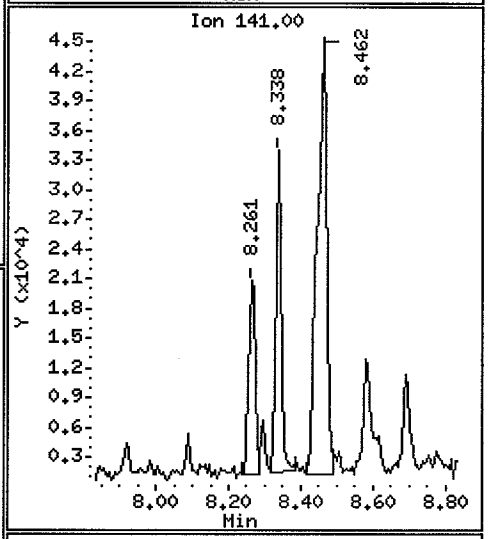


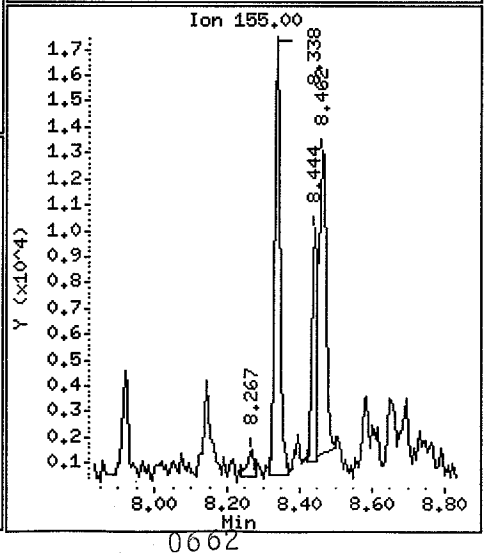












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

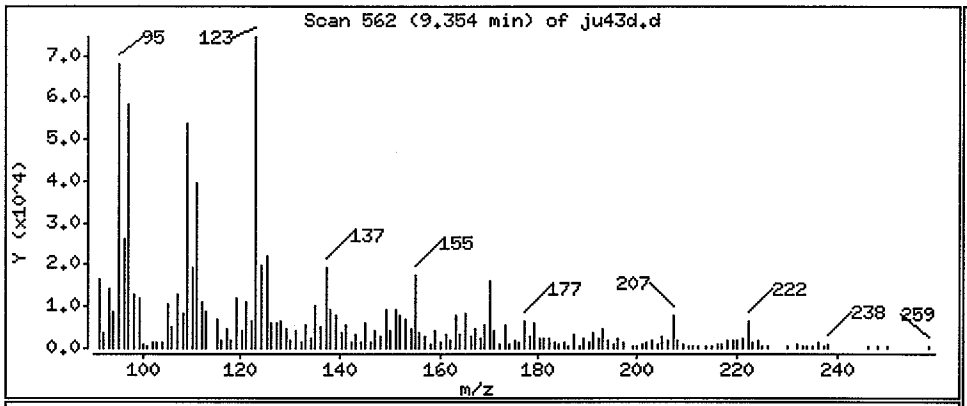
Operator: VTS

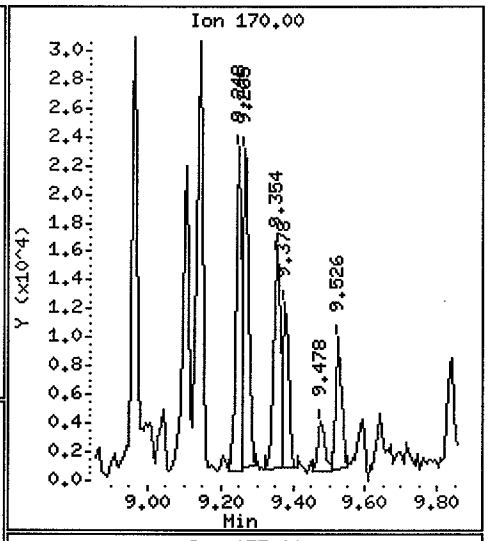
Column phase: ZB-5

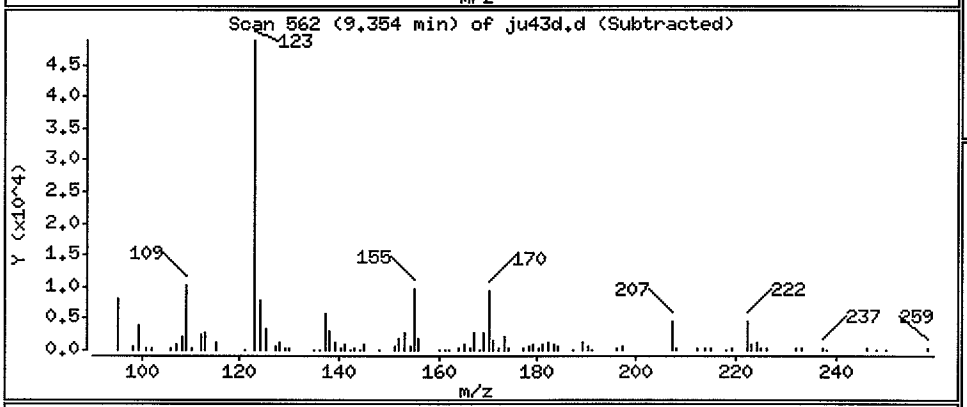
Column diameter: 0.25

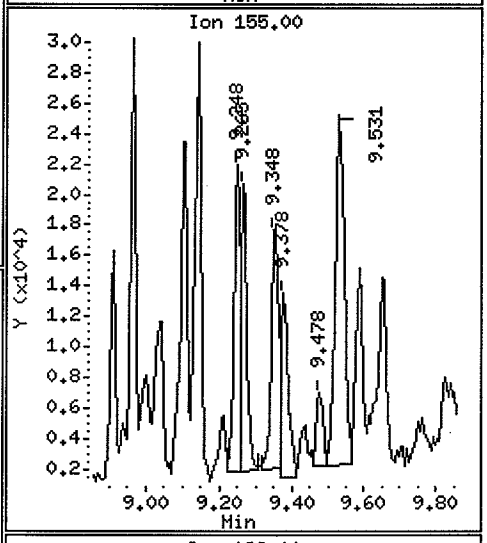
50 2,3,5-Trimethylnaphthalene

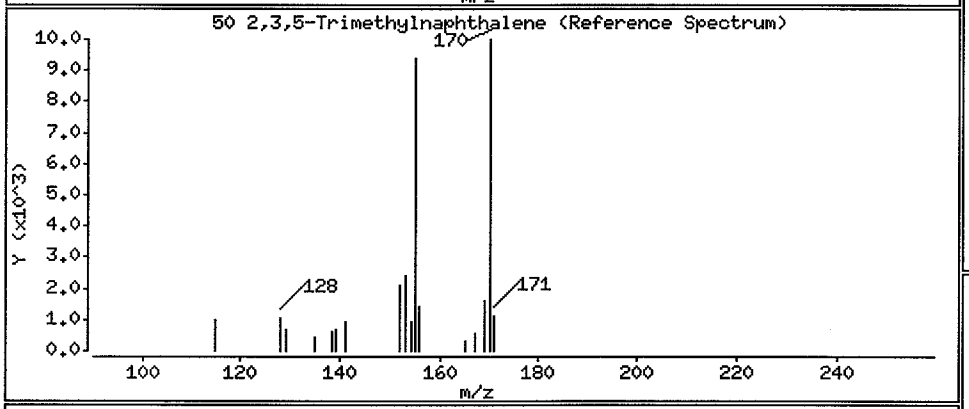
Concentration: 16.69 ug/kg

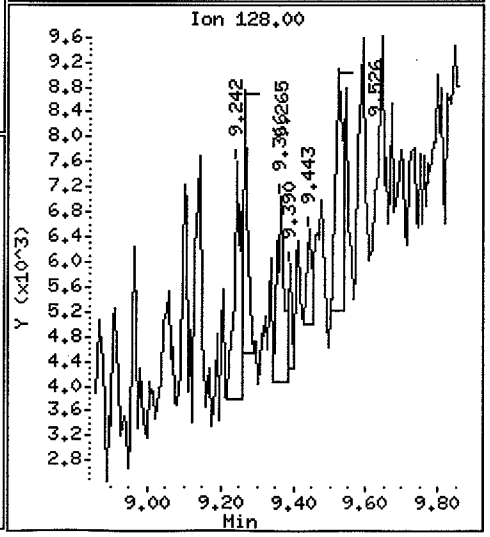


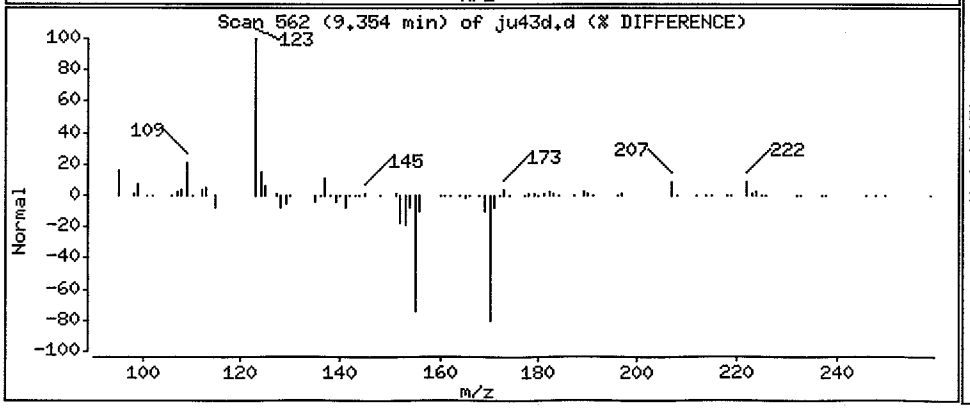












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

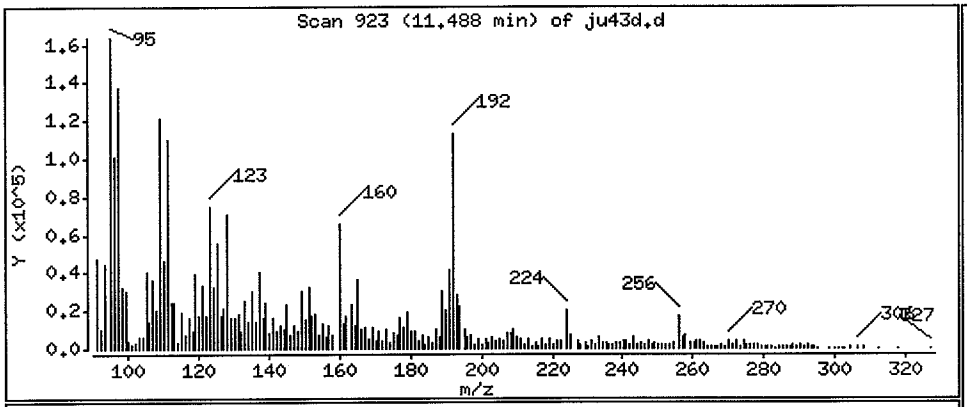
Operator: VTS

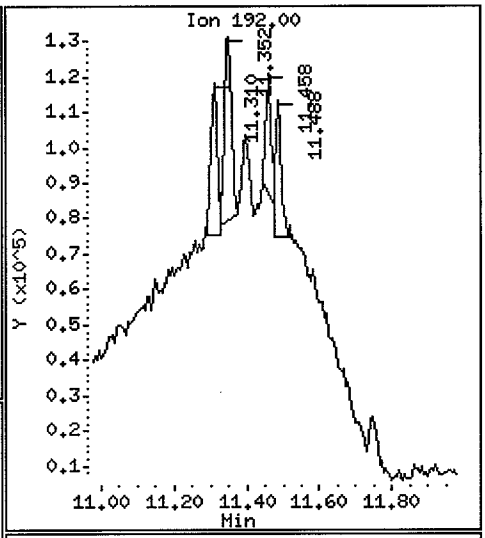
Column phase: ZB-5

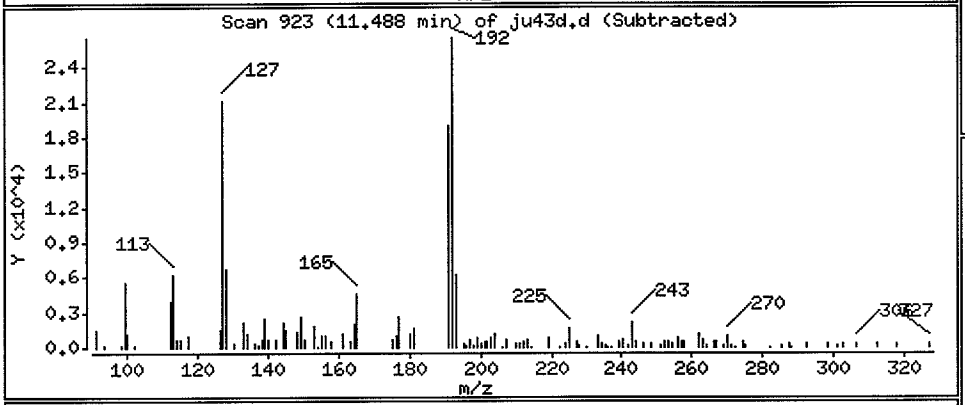
Column diameter: 0.25

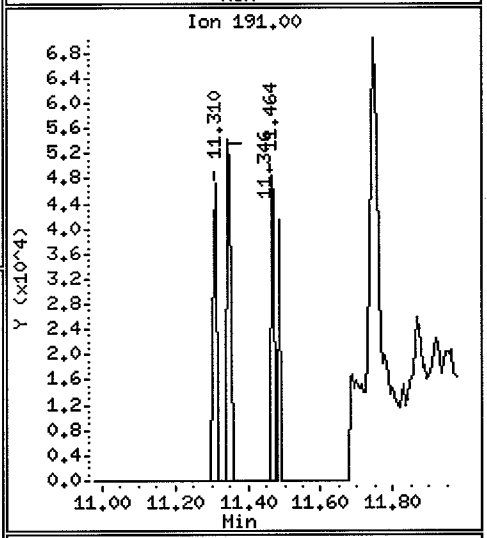
51 1-Methylphenanthrene

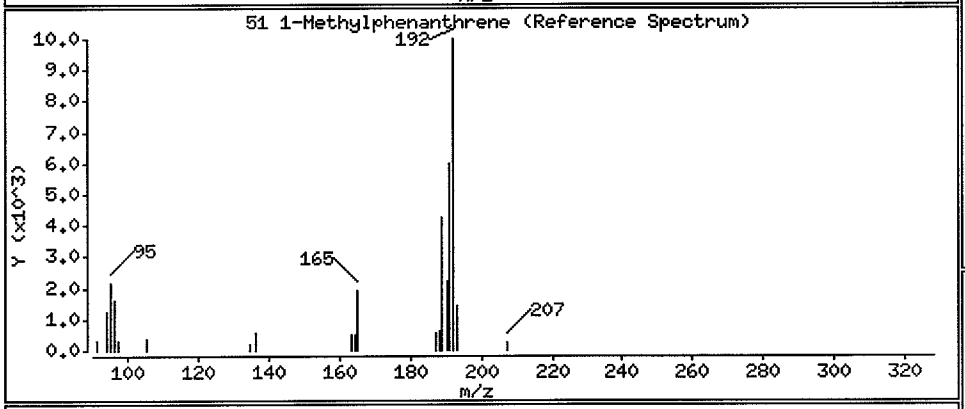
Concentration: 29.81 ug/kg

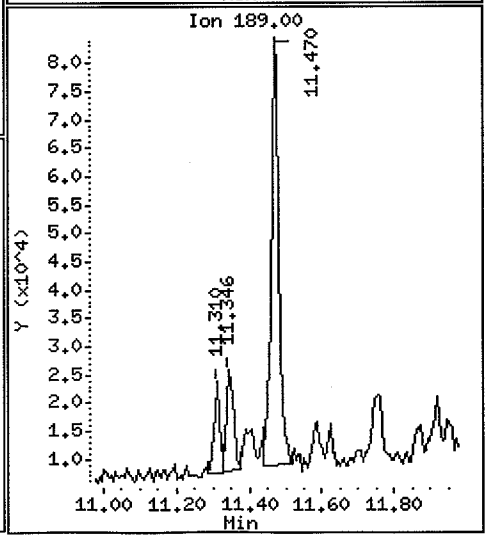


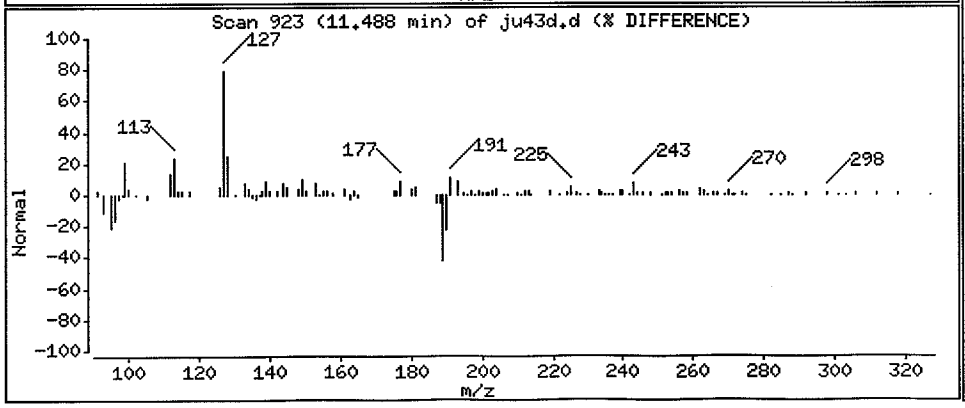












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

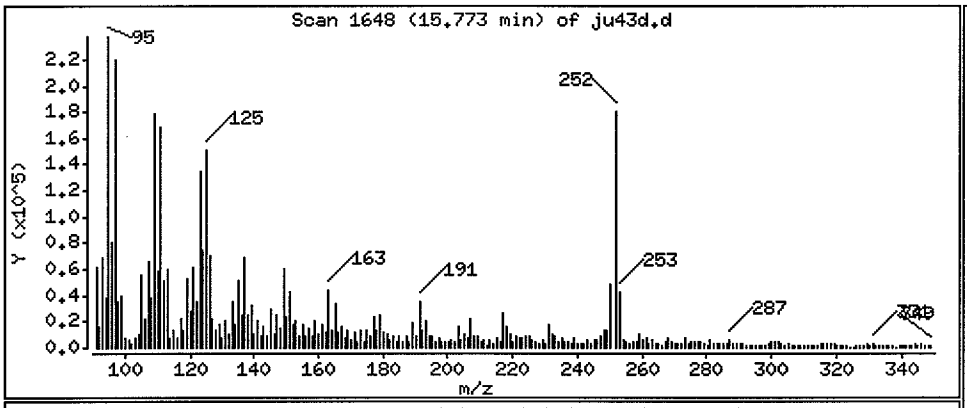
Operator: VTS

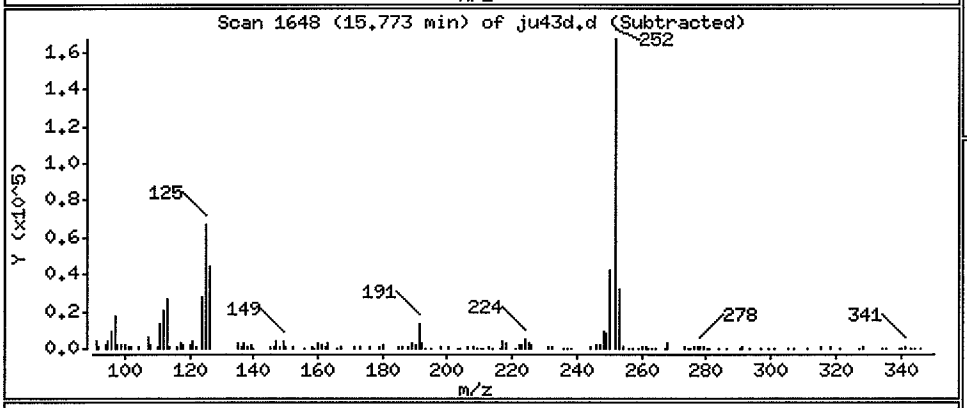
Column phase: ZB-5

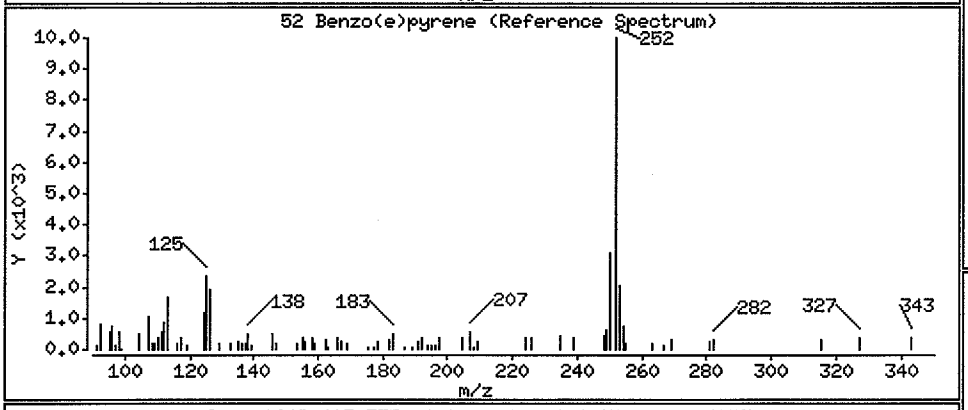
Column diameter: 0.25

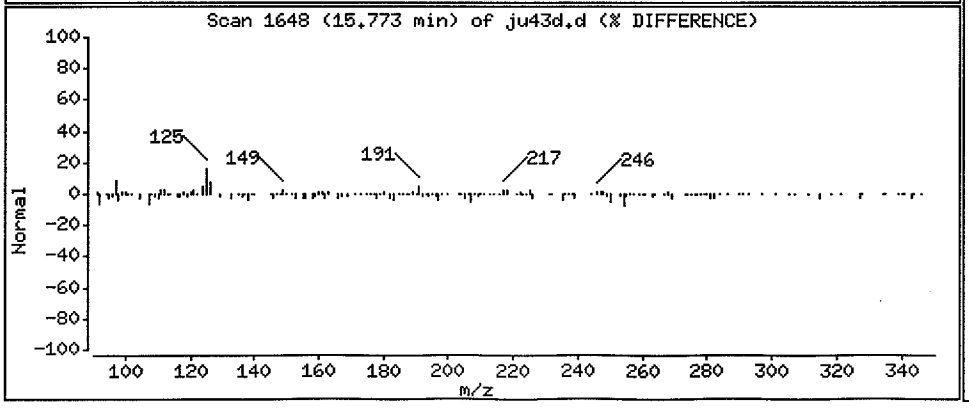
52 Benzo(e)pyrene

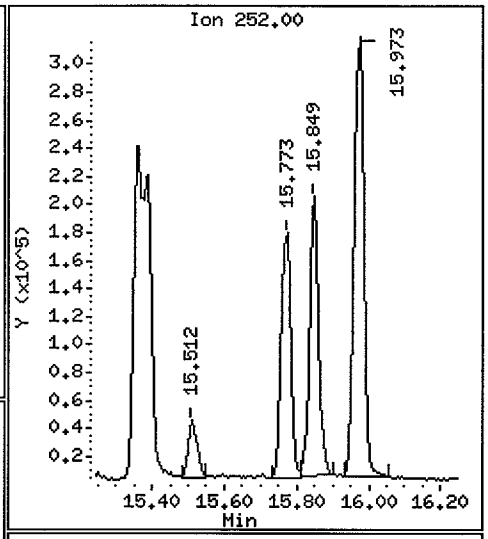
Concentration: 152.6 ug/kg

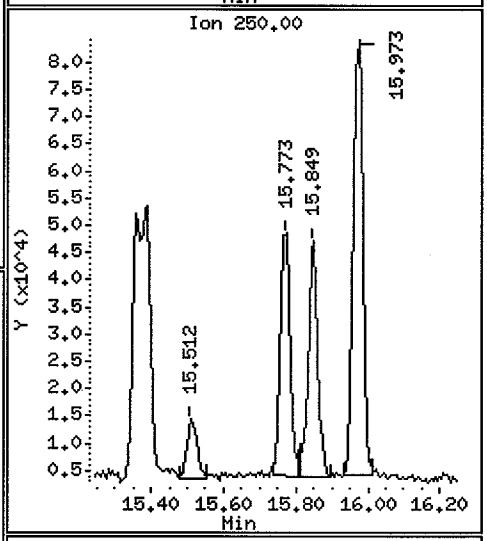


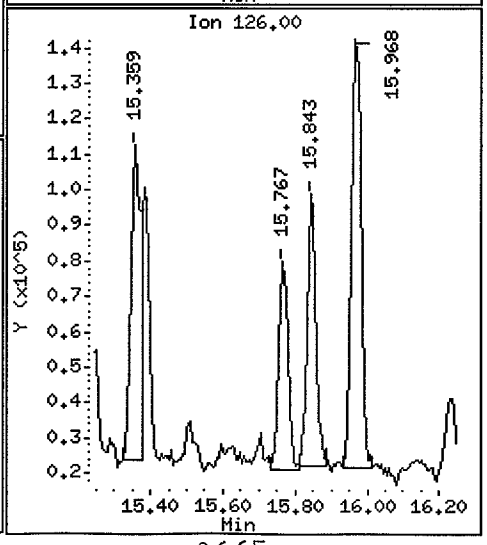












Data File: /chem3/nt1.i/20060912.b/ju43d.d

Date : 12-SEP-2006 14:42

Client ID: T4-B414-02-D

Instrument: nt1.i

Sample Info: JU43D

Volume Injected (uL): 1.0

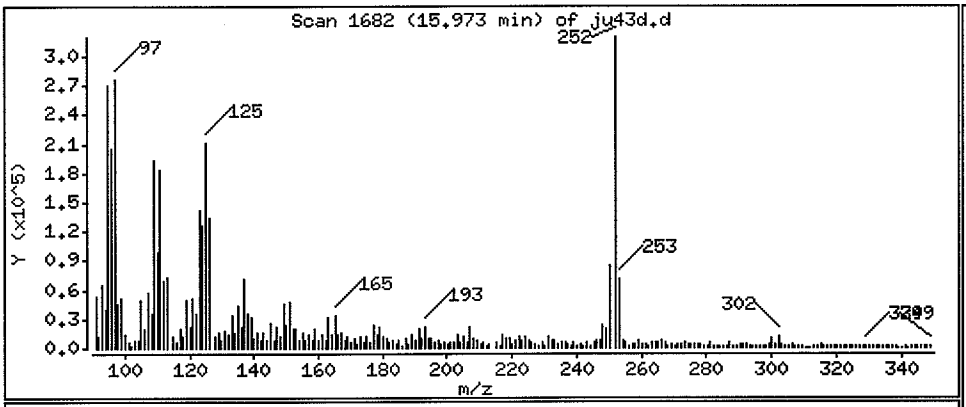
Operator: VTS

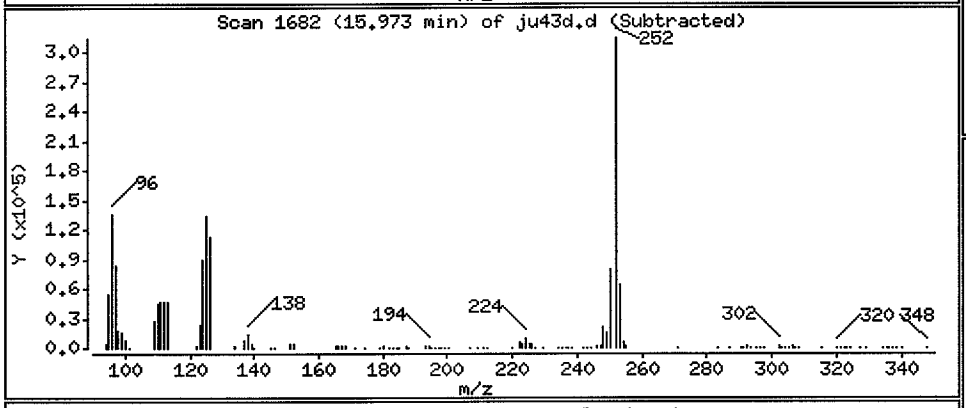
Column phase: ZB-5

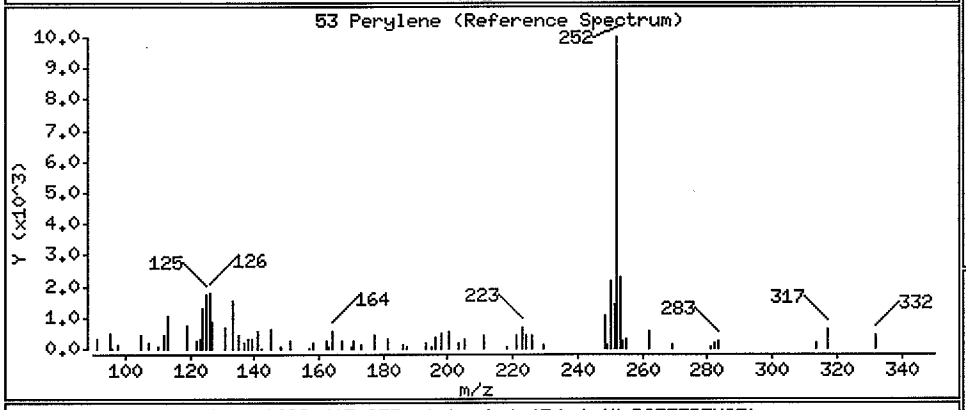
Column diameter: 0.25

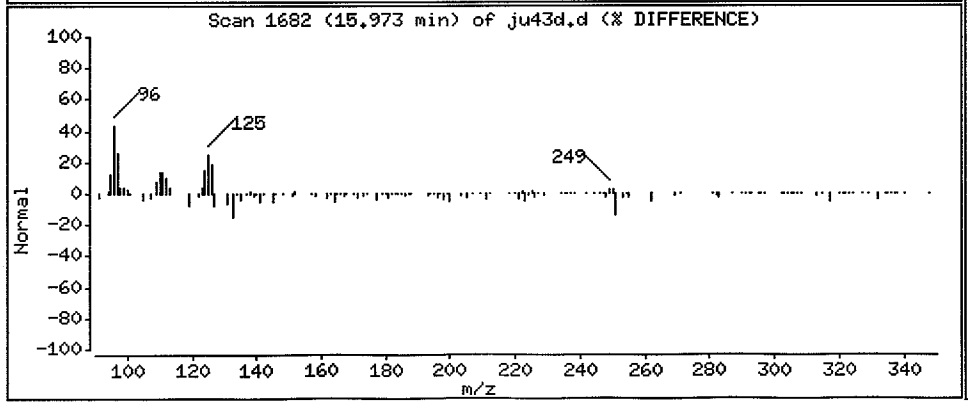
53 Perylene

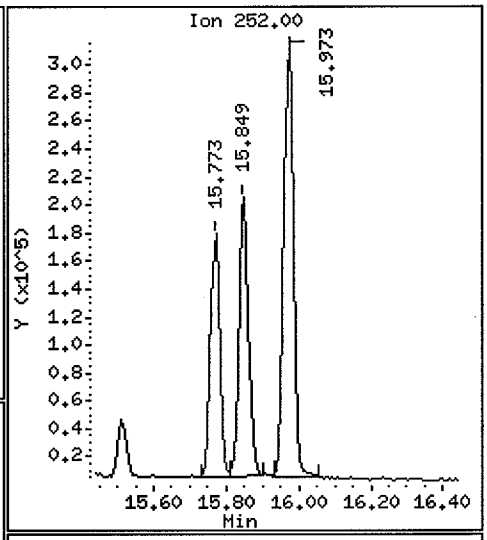
Concentration: 299.5 ug/kg

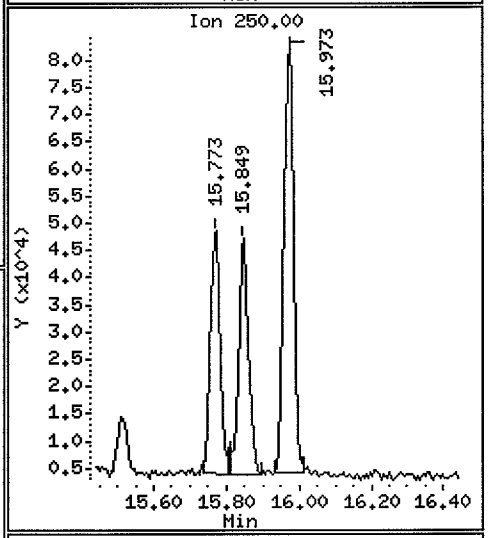


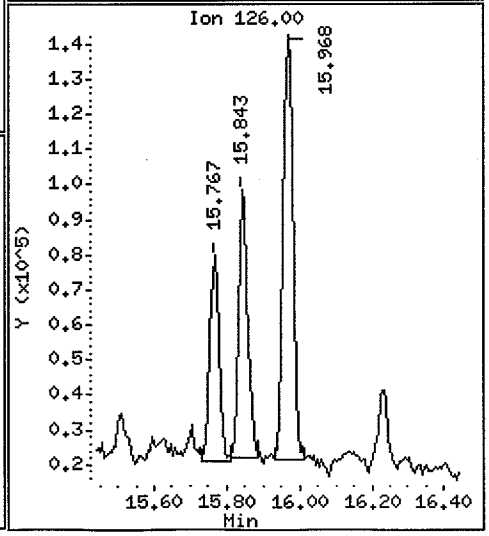












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-02-E**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43E
LIMS ID: 06-15849
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 15:07
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 44.0%
pH: 6.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.9	70
91-57-6	2-Methylnaphthalene	4.9	48
90-12-0	1-Methylnaphthalene	4.9	17
208-96-8	Acenaphthylene	4.9	22
83-32-9	Acenaphthene	4.9	74
86-73-7	Fluorene	4.9	63
85-01-8	Phenanthrene	4.9	260
120-12-7	Anthracene	4.9	62
206-44-0	Fluoranthene	4.9	370
129-00-0	Pyrene	4.9	400
56-55-3	Benzo(a)anthracene	4.9	140
218-01-9	Chrysene	4.9	230
205-99-2	Benzo(b)fluoranthene	4.9	180
207-08-9	Benzo(k)fluoranthene	4.9	140
50-32-8	Benzo(a)pyrene	4.9	190
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	95
53-70-3	Dibenz(a,h)anthracene	4.9	29
191-24-2	Benzo(g,h,i)perylene	4.9	120
198-55-0	Perylene	4.9	240
92-52-4	Biphenyl	4.9	10
581-42-0	2,6-Dimethylnaphthalene	4.9	33
832-69-9	1-Methylphenanthrene	4.9	33
192-97-2	Benzo(e)pyrene	4.9	130
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	29

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	82.3%
d14-Dibenzo(a,h)anthracen	80.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43e.d
Lab Smp Id: JU43E Client Smp ID: T4-B414-02-E
Inj Date : 12-SEP-2006 15:07
Operator : VTS Inst ID: nt1.i
Smp Info : JU43E
Misc Info : 06-15849
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.20000	Weight of sample extracted (g)
M	44.00000	% 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	6.807	6.808	(1.000)	384676	2.00000		
	2 Naphthalene	128	6.831	6.832	(1.003)	264550	1.43145	70.22	
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.111)	235153	2.46526	120.9	
	4 2-Methylnaphthalene	142	7.605	7.600	(1.117)	96745	0.98493	48.32	
	5 1-Methylnaphthalene	142	7.735	7.730	(1.136)	36186	0.33949	16.65	
	7 Acenaphthylene	152	8.692	8.687	(0.980)	69759	0.46211	22.67	
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	183746	2.00000		
	9 Acenaphthene	153	8.911	8.906	(1.005)	138913	1.52360	74.74	
	10 Dibenzofuran	168	9.100	9.095	(1.026)	98927	~~0.76~~347	37.45	NR
	11 Fluorene	166	9.520	9.521	(1.073)	126329	1.27708	62.65	
*	15 Phenanthrene-d10	188	10.684	10.679	(1.000)	237738	2.00000		
	16 Phenanthrene	178	10.714	10.709	(1.003)	670548	5.20329	255.3	
	17 Anthracene	178	10.767	10.762	(1.008)	163598	1.25871	61.75	
	19 Fluoranthene	202	12.209	12.198	(1.143)	824854	7.49863	367.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.499	12.488	(0.893)	986883	8.10655	397.7
	22 Benzo(a)anthracene	228	13.976	13.965	(0.998)	304364	2.93495	144.0
*	23 Chrysene-d12	240	14.000	13.989	(1.000)	172973	2.00000	
	24 Chrysene	228	14.029	14.018	(1.002)	453749	4.65621	228.4
	28 Benzo(b)fluoranthene	252	15.359	15.336	(0.964)	360125	3.56935	175.1
	29 Benzo(k)fluoranthene	252	15.383	15.366	(0.966)	301933	2.86538	140.6(M)
	30 Benzo(a)pyrene	252	15.844	15.821	(0.995)	351577	3.86345	189.5
*	31 Perylene-d12	264	15.926	15.898	(1.000)	178169	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.847	17.813	(1.121)	189145	1.93613	94.98
$	32 Dibenz(a,h)anthrancene-d14	292	17.770	17.736	(1.116)	141278	2.41974	118.7
	34 Dibenz(a,h)anthracene	278	17.829	17.807	(1.119)	46390	0.58589	28.74
	35 Benzo(g,h,i)perylene	276	18.415	18.380	(1.156)	214097	2.47979	121.7
	48 Biphenyl	154	8.143	8.138	(0.918)	24262	0.21293	10.45
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	58079	0.67477	33.10
	50 2,3,5-Trimethylnaphthalene	170	9.354	9.355	(1.055)	40111	0.58993	28.94
	51 1-Methylphenanthrene	192	11.488	11.477	(0.821)	54414	0.66650	32.70(M)
	52 Benzo(e)pyrene	252	15.761	15.744	(0.990)	272567	2.68859	131.9
	53 Perylene	252	15.962	15.939	(1.002)	471636	4.98573	244.6

QC Flag Legend

M - Compound response manually integrated.

VR

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43e.d
Lab Smp Id: JU43E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15849

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-02-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	384676	12.63
8 Acenaphthene-d10	169375	84688	338750	183746	8.48
15 Phenanthrene-d10	232185	116092	464370	237738	2.39
23 Chrysene-d12	179856	89928	359712	172973	-3.83
31 Perylene-d12	175373	87686	350746	178169	1.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	-0.01
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	14.00	0.08
31 Perylene-d12	15.90	15.40	16.40	15.93	0.18

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

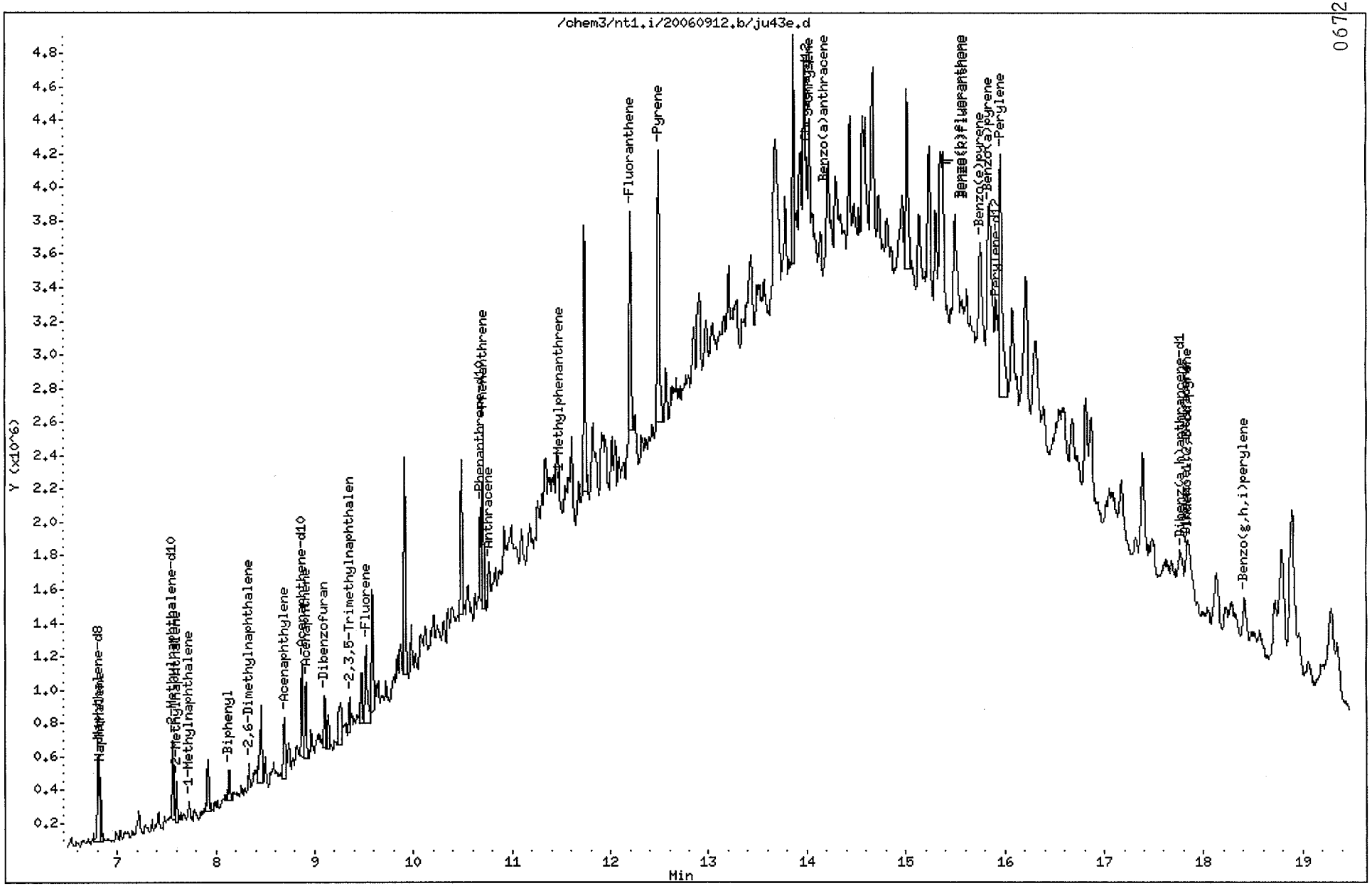
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43E
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15849

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-02-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3	2-Methylnaphthalen	147.2	120.9	82.18	32-97
$ 32	Dibenz(a,h)anthran	147.2	118.7	80.66	21-105

Data File: /chem3/nt1.i/20060912.b/ju43e.d
Date : 12-SEP-2006 15:07
Client ID: T4-B414-02-E
Sample Info: JU43E
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

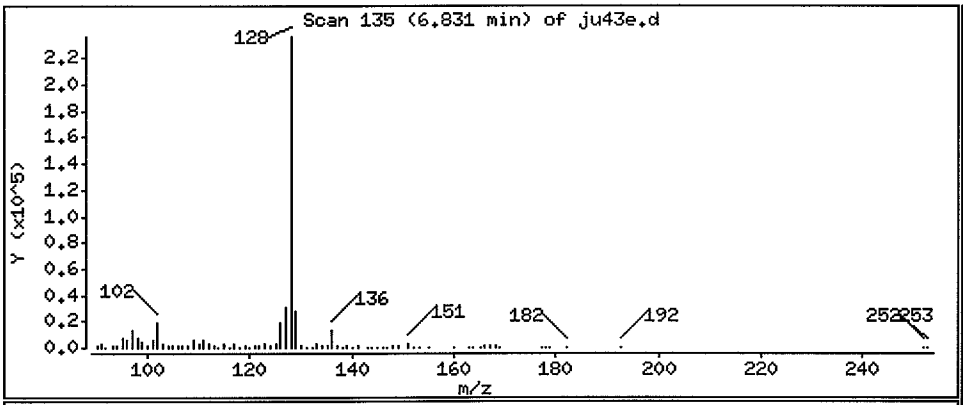
Operator: VTS

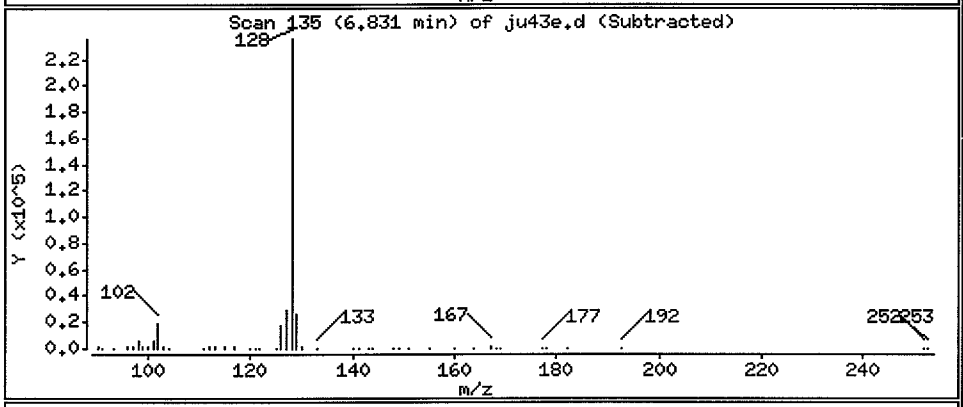
Column phase: ZB-5

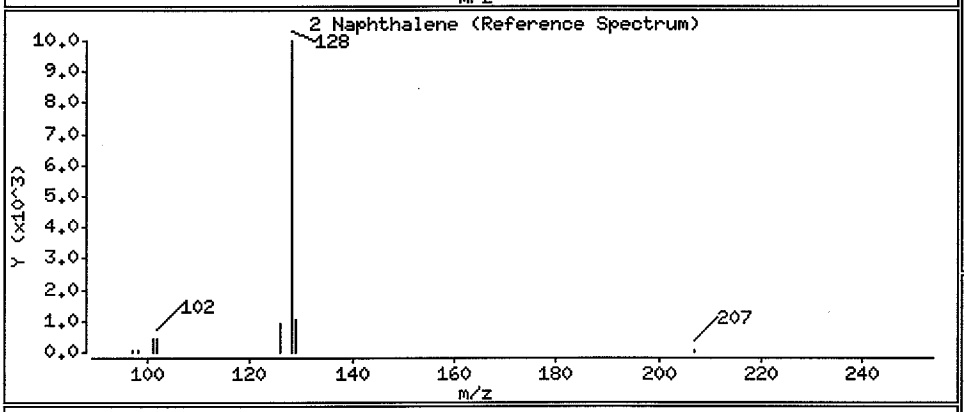
Column diameter: 0.25

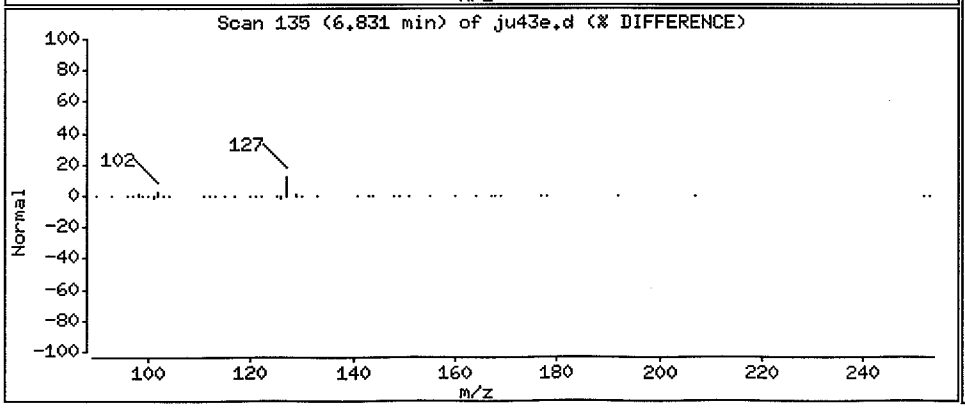
2 Naphthalene

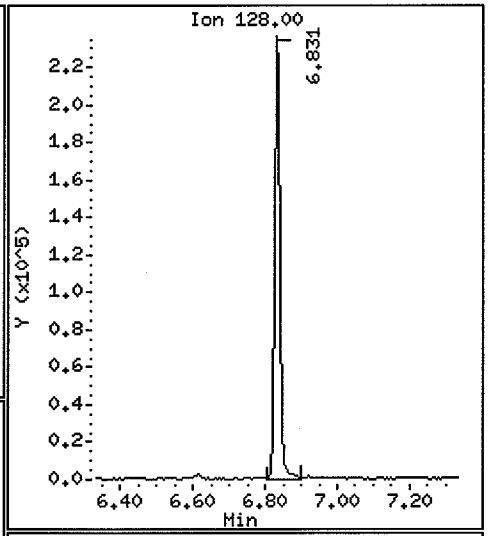
Concentration: 70.22 ug/kg

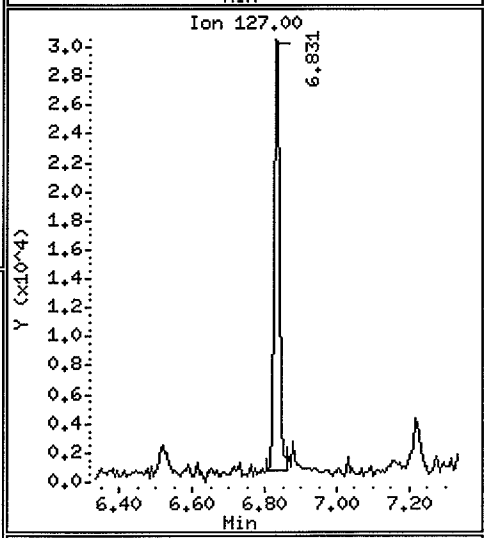


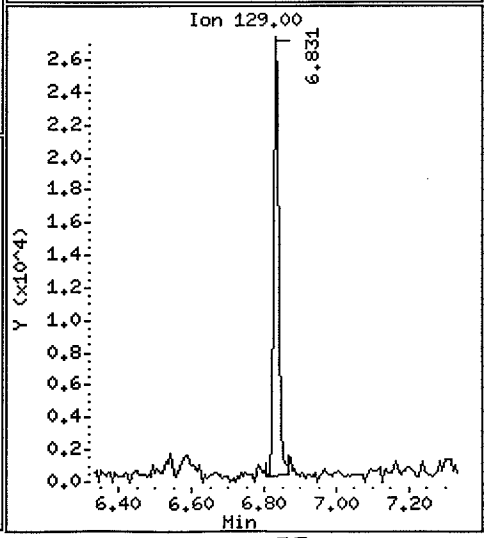












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

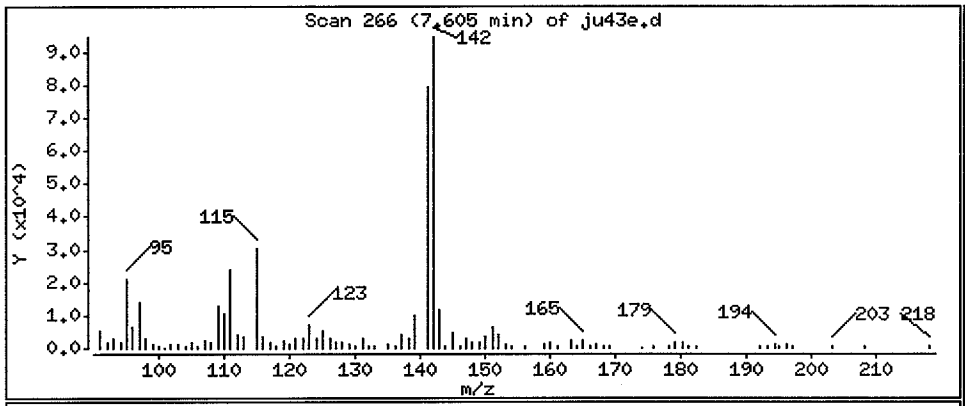
Operator: VTS

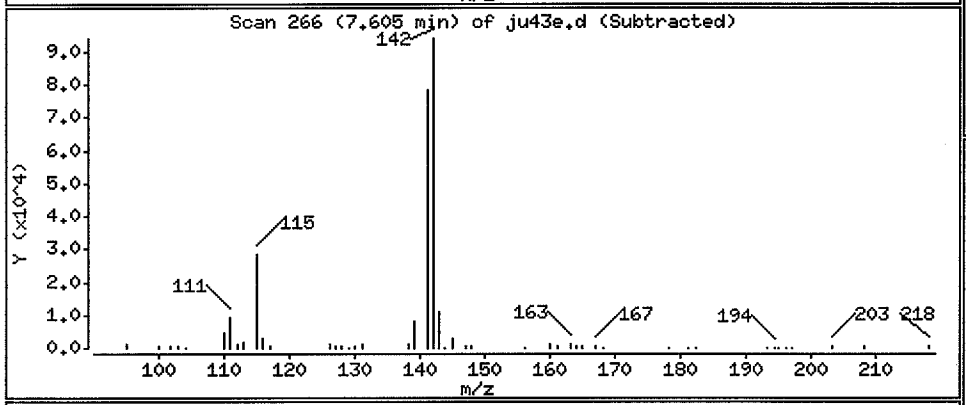
Column phase: ZB-5

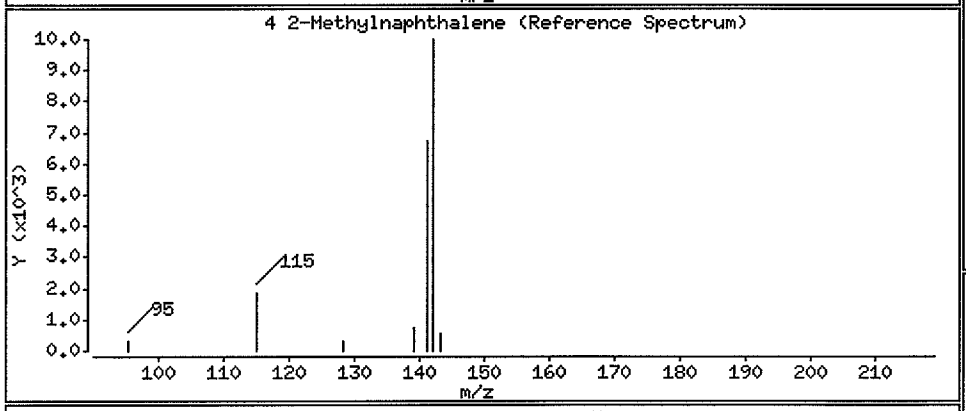
Column diameter: 0.25

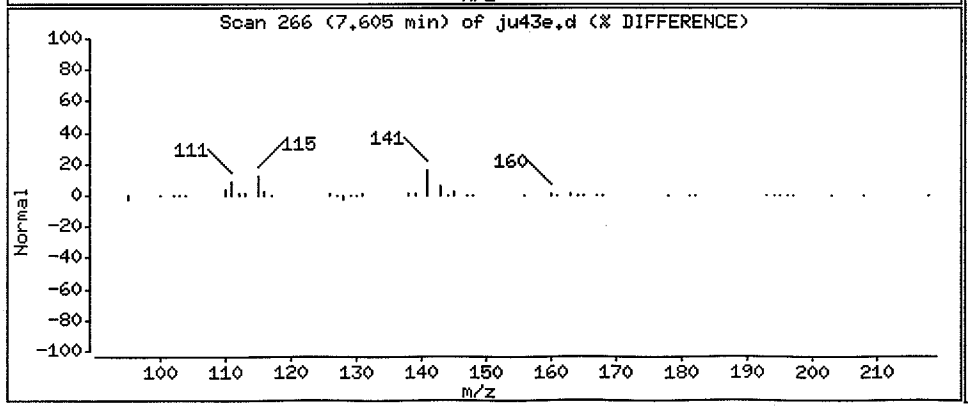
4 2-Methylnaphthalene

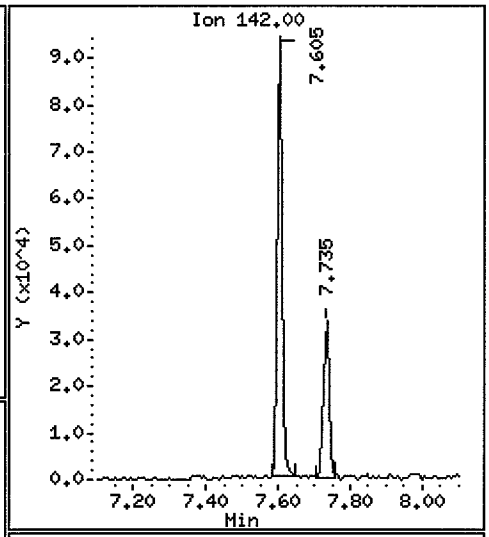
Concentration: 48.32 ug/kg

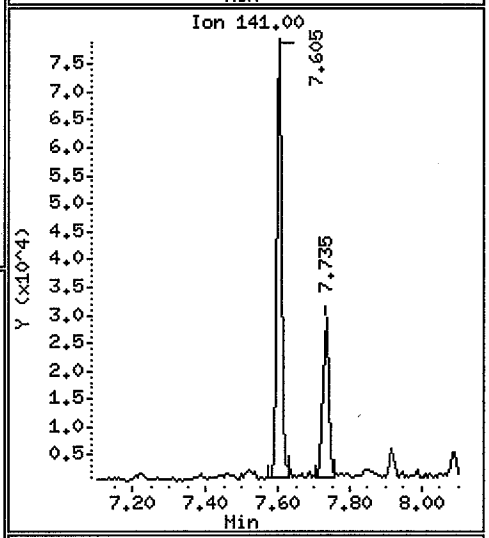


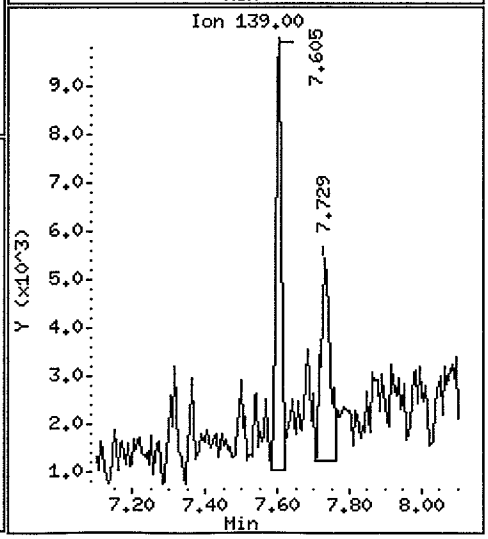












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

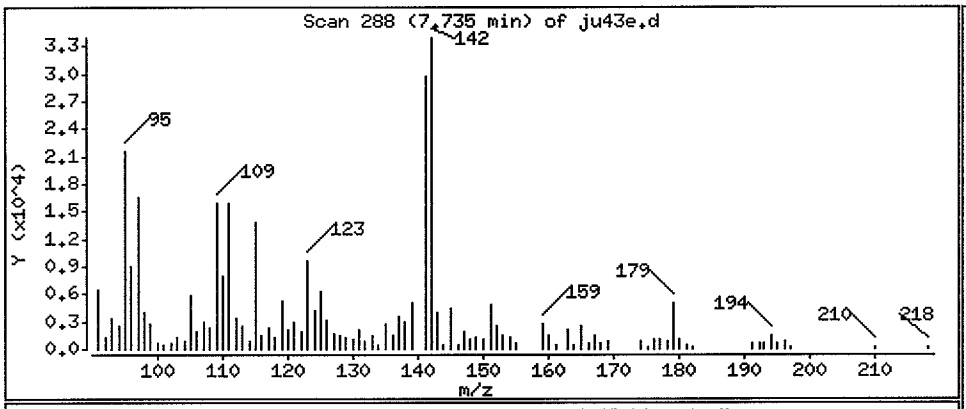
Operator: VTS

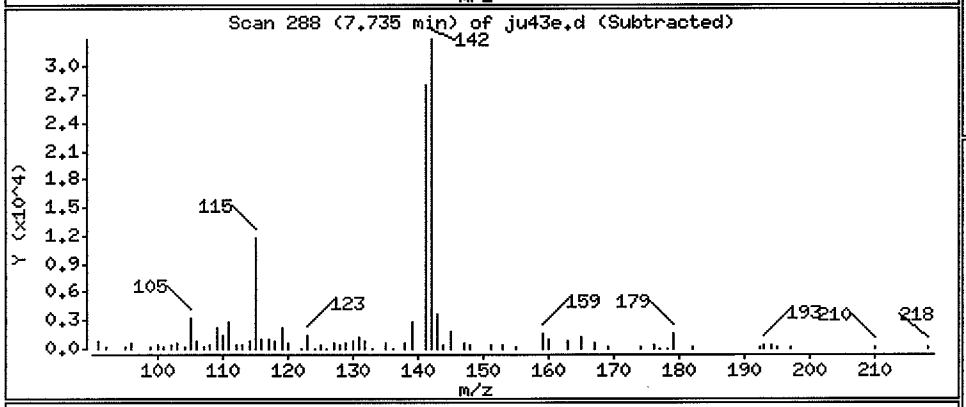
Column phase: ZB-5

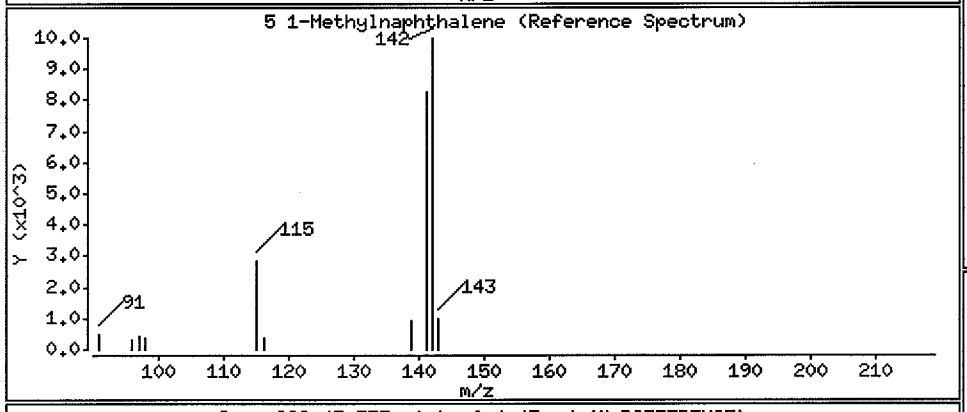
Column diameter: 0.25

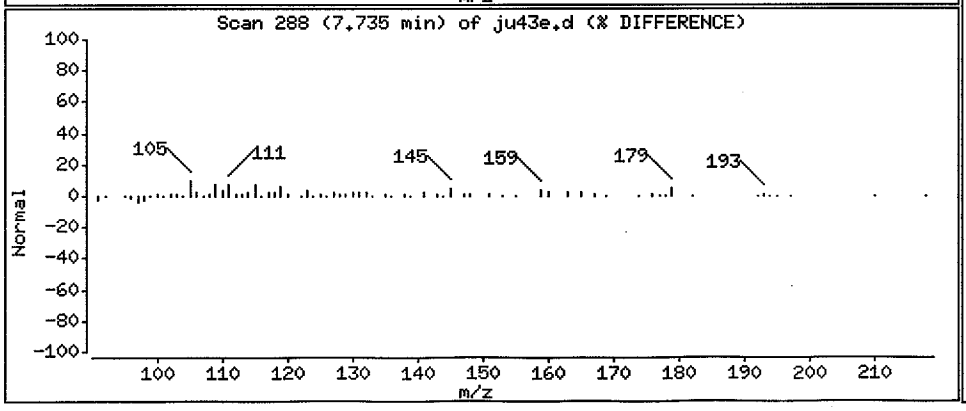
5 1-Methylnaphthalene

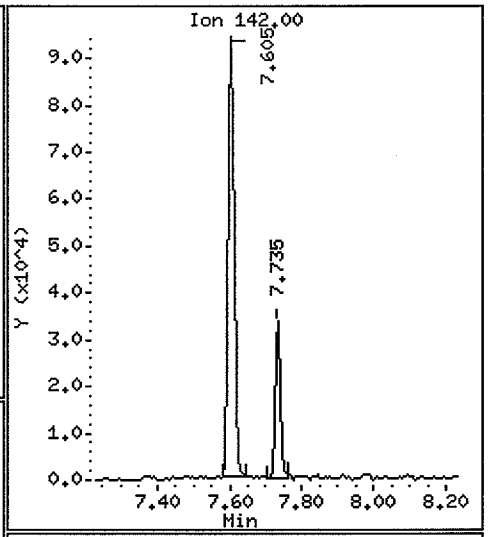
Concentration: 16.65 ug/kg

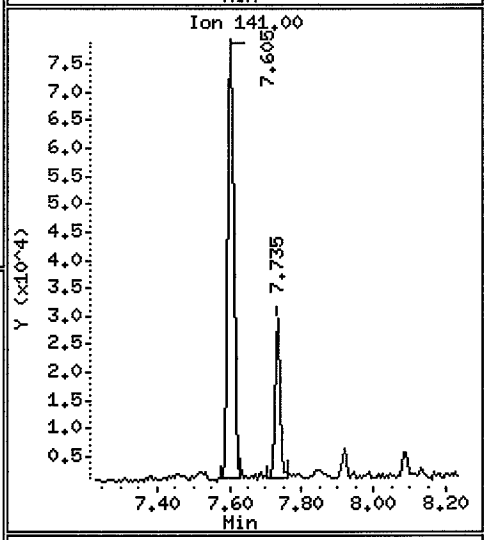


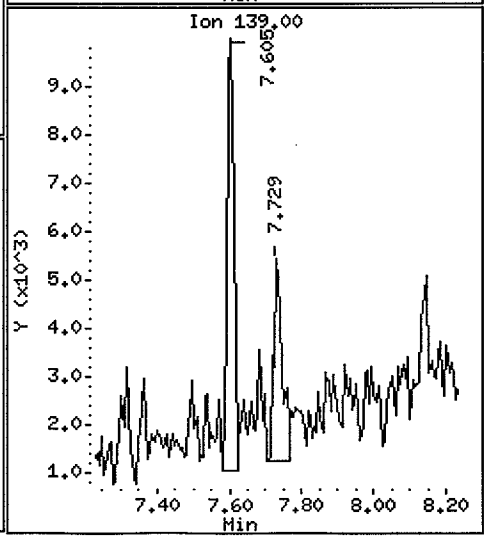












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

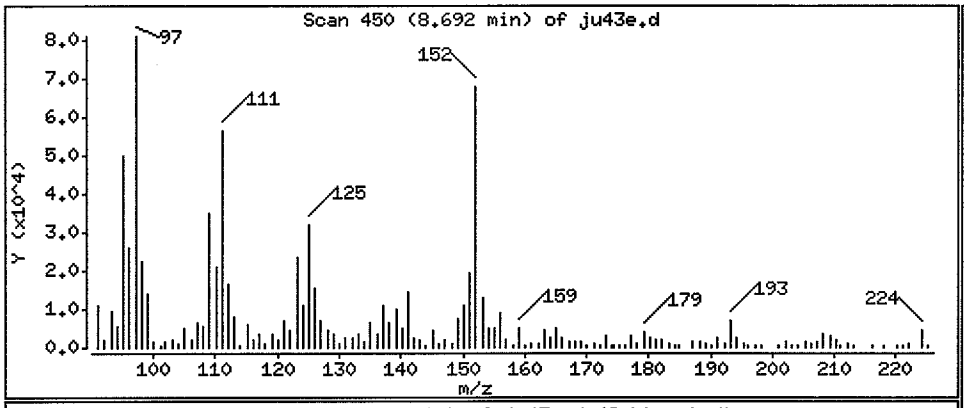
Operator: VTS

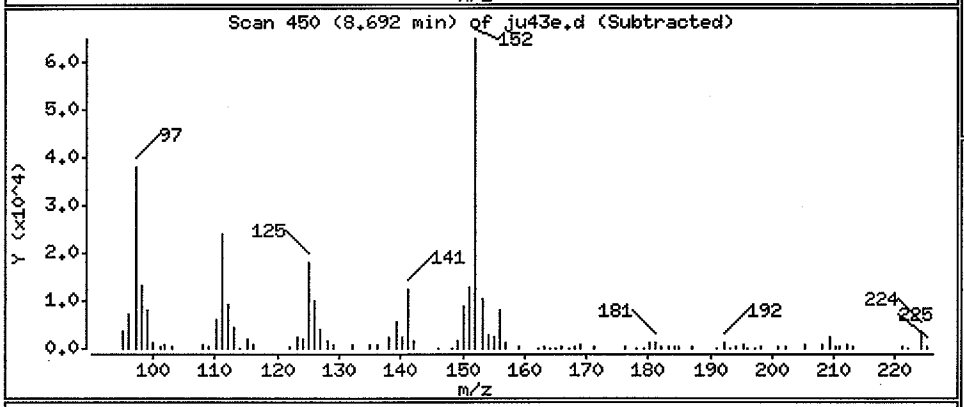
Column phase: ZB-5

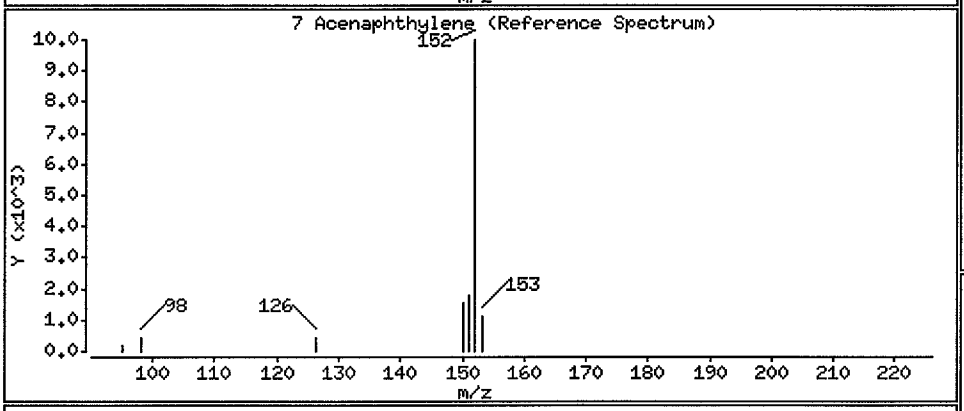
Column diameter: 0.25

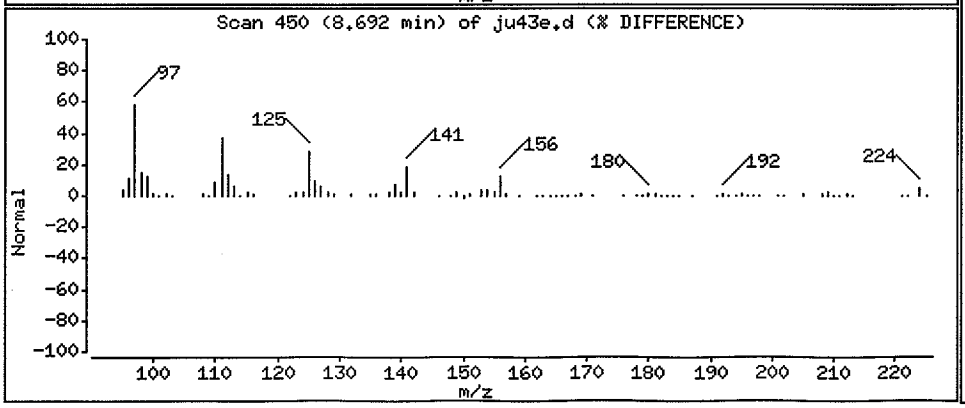
7 Acenaphthylene

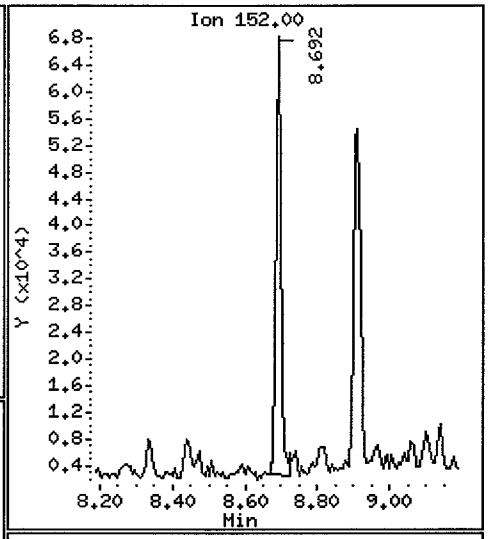
Concentration: 22.67 ug/kg

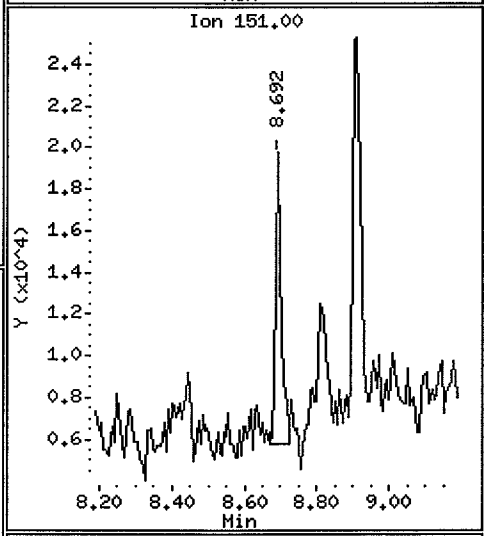


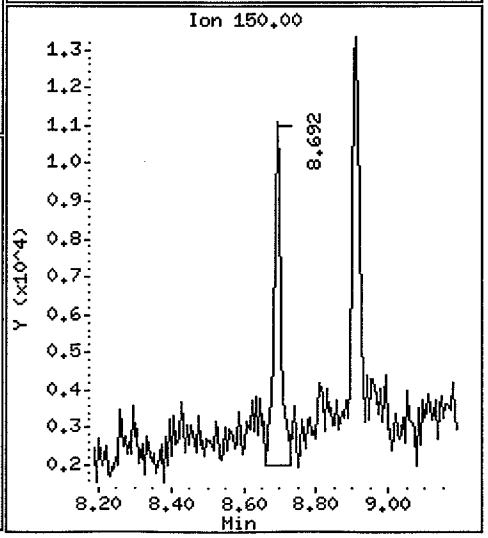












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

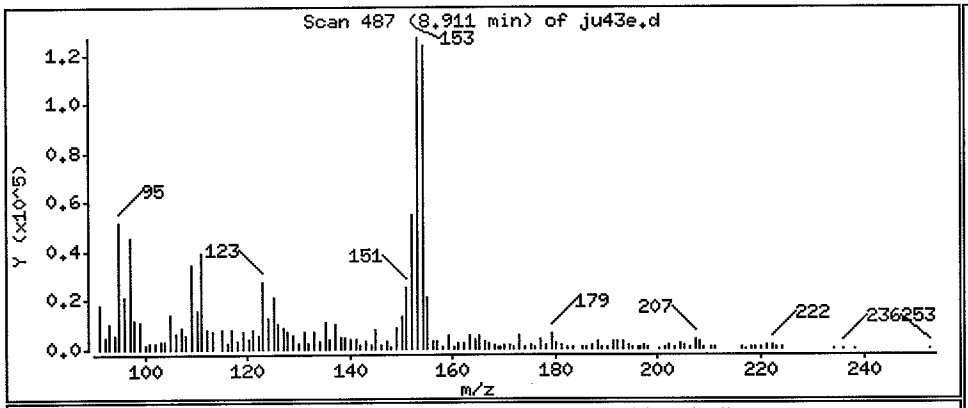
Operator: VTS

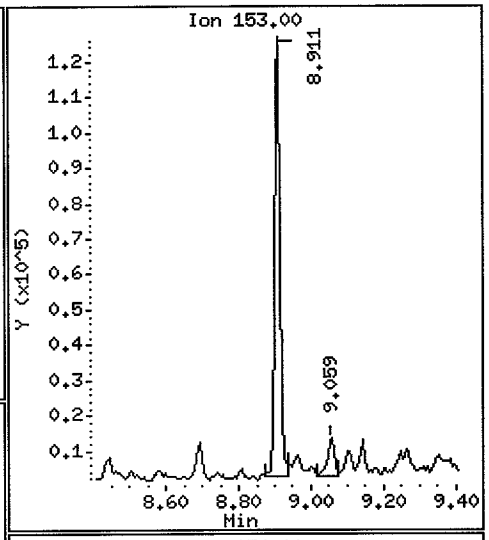
Column phase: ZB-5

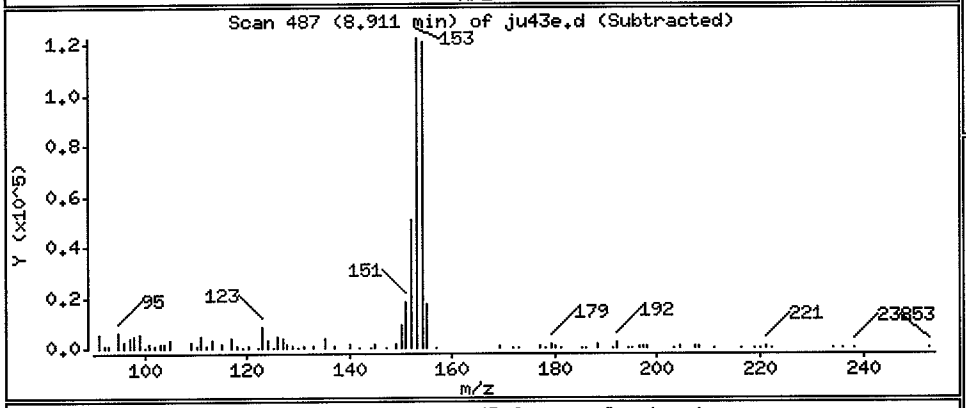
Column diameter: 0.25

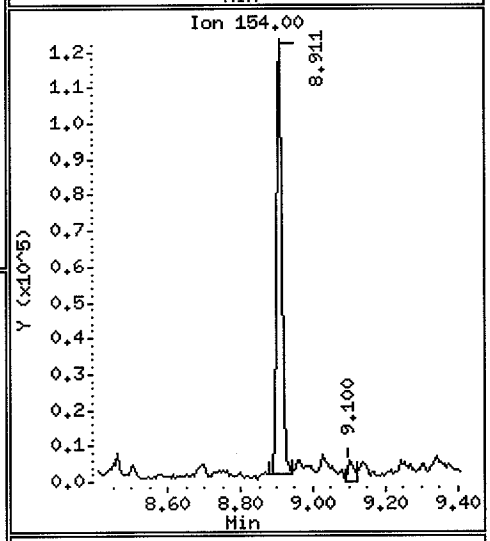
9 Acenaphthene

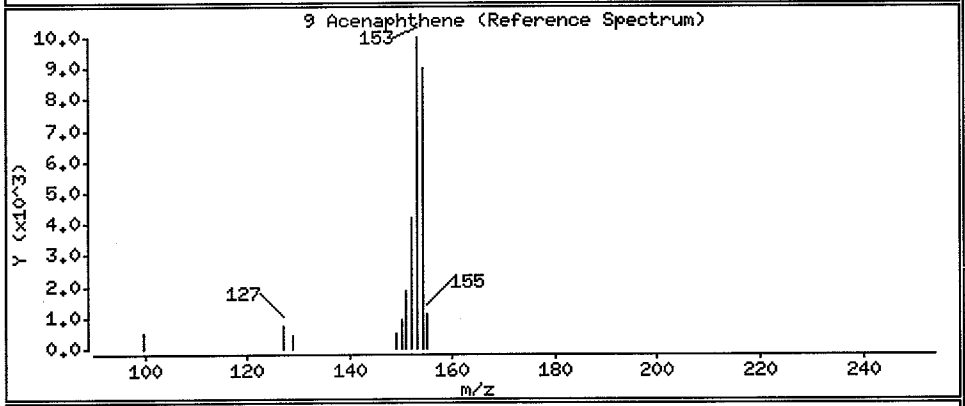
Concentration: 74.74 ug/kg

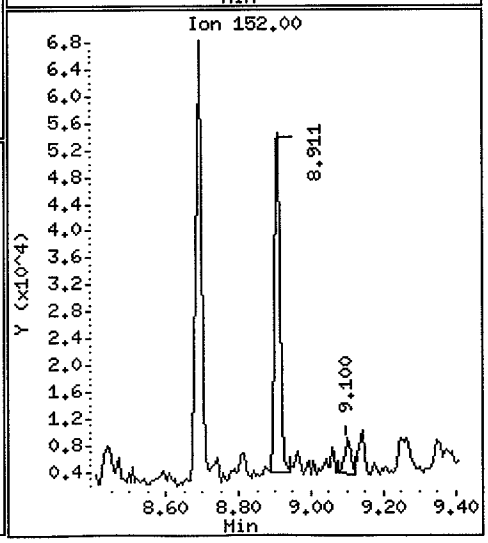


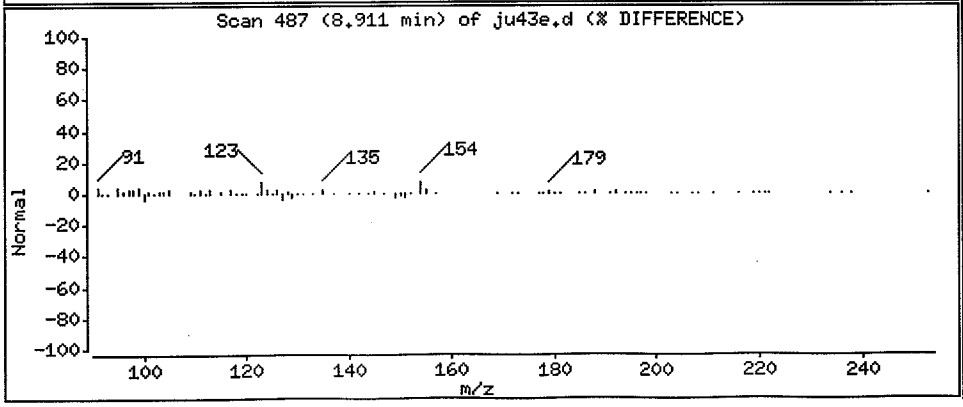












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

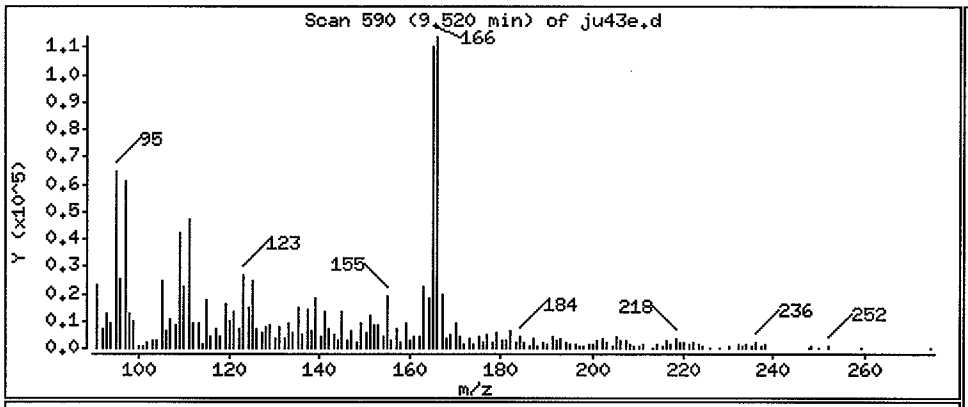
Operator: VTS

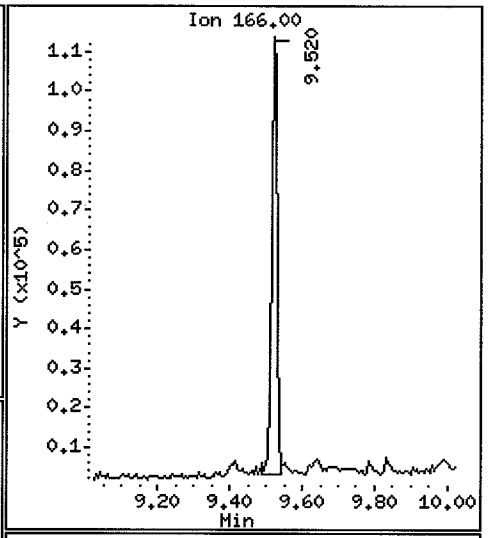
Column phase: ZB-5

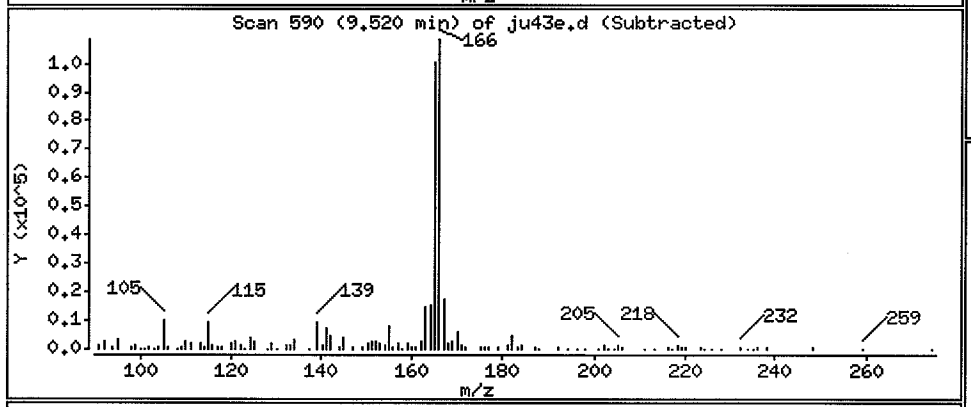
Column diameter: 0.25

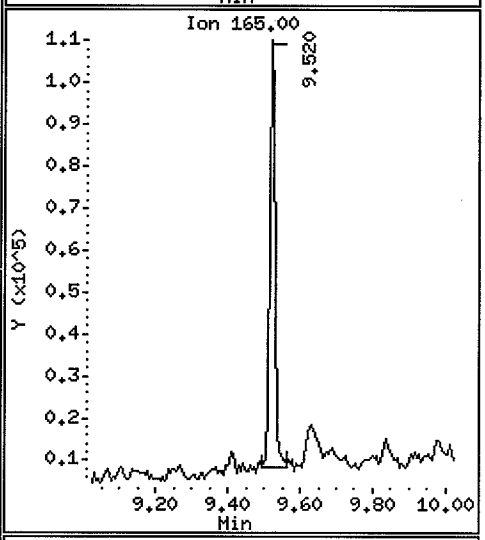
11 Fluorene

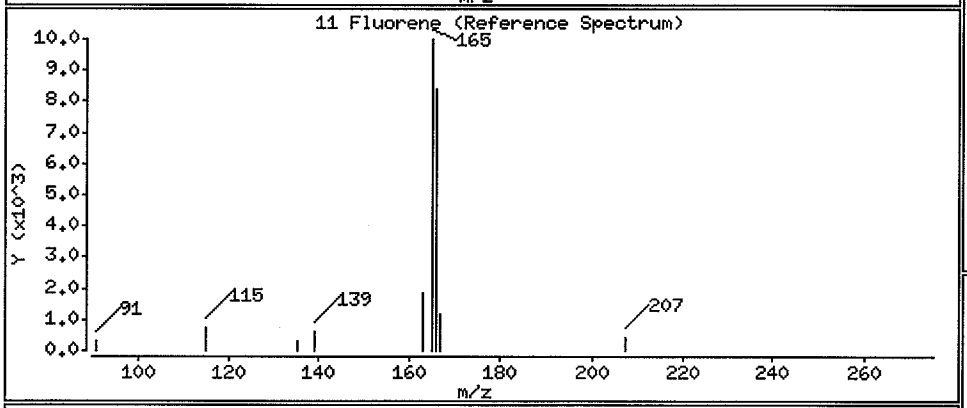
Concentration: 62.65 ug/kg

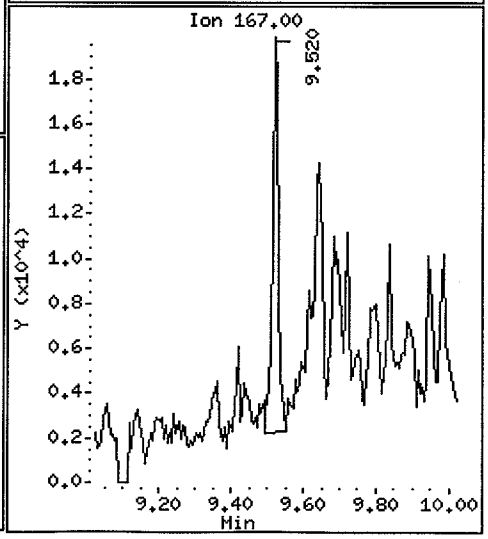


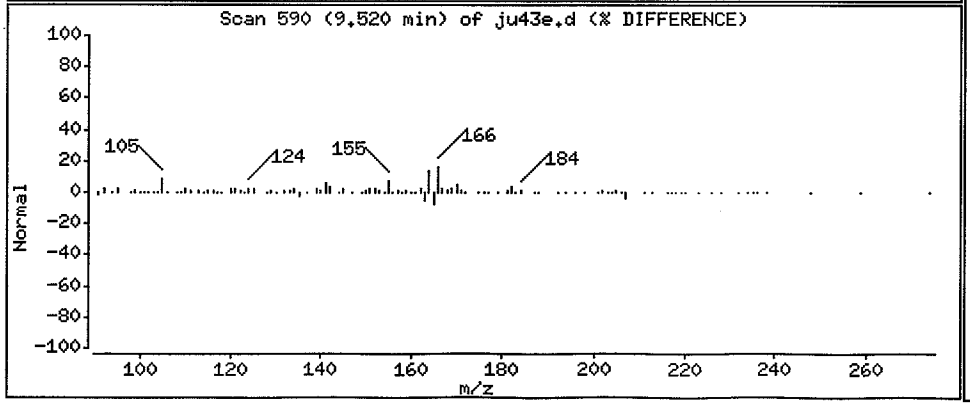












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

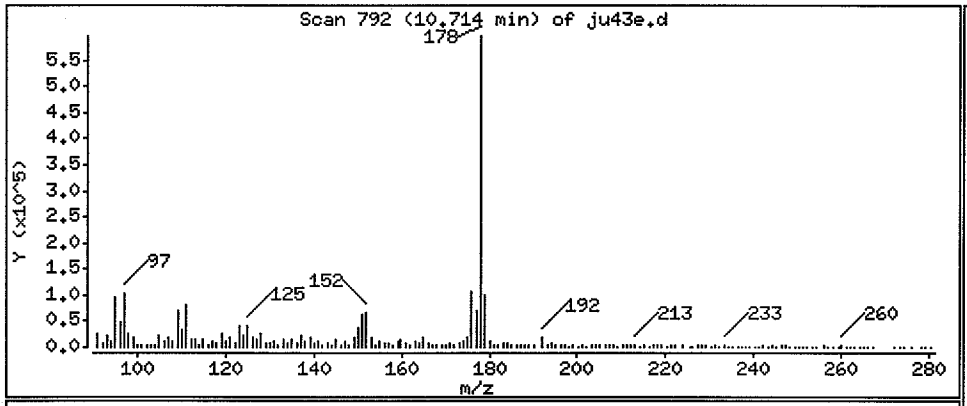
Operator: VTS

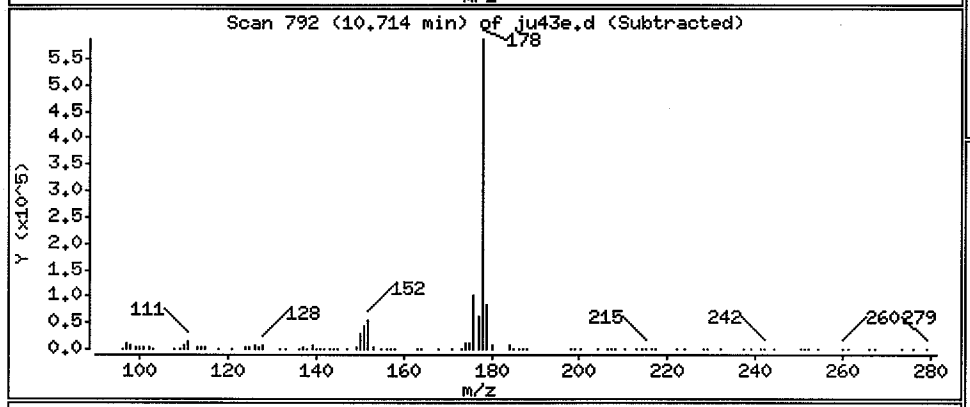
Column phase: ZB-5

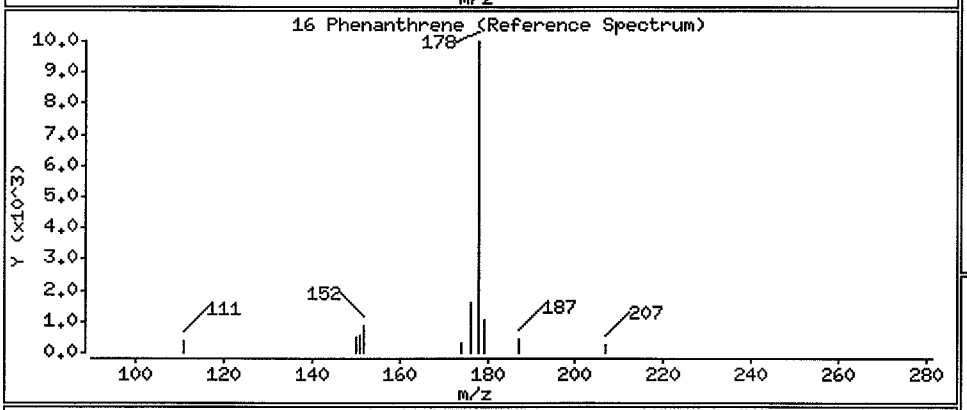
Column diameter: 0.25

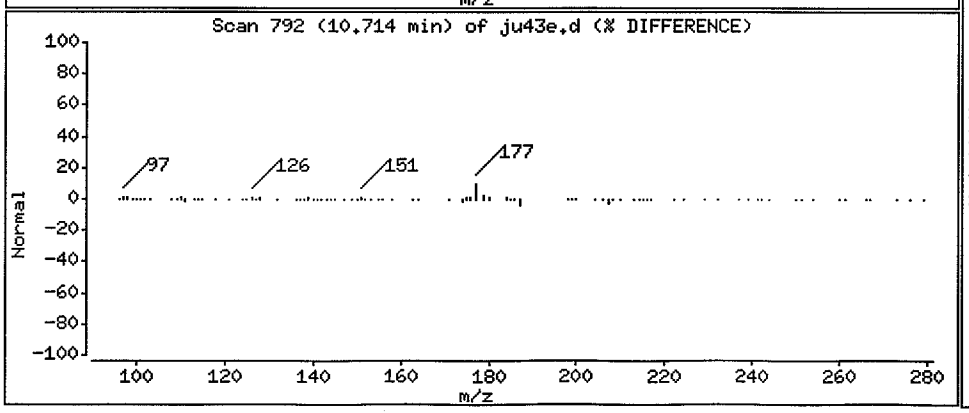
16 Phenanthrene

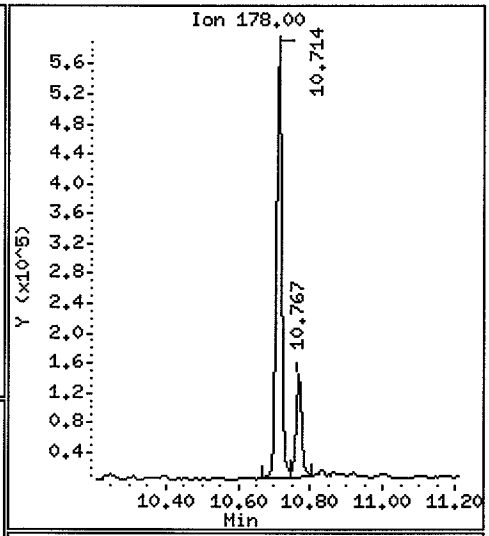
Concentration: 255.3 ug/kg

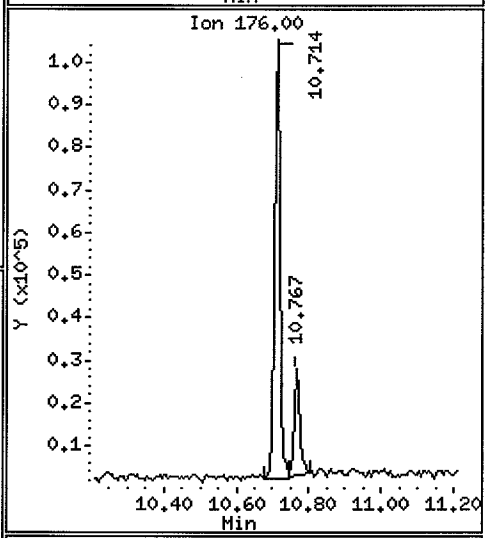


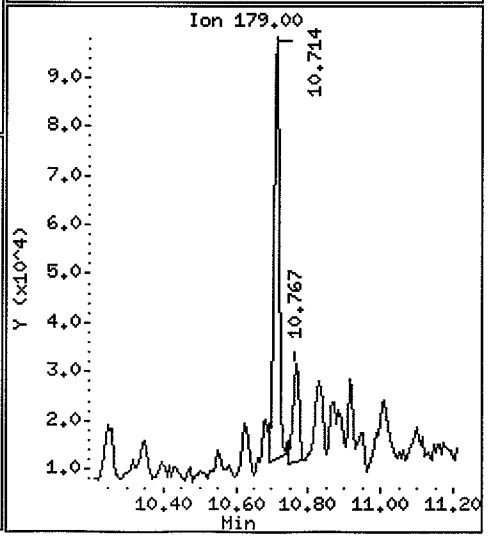












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

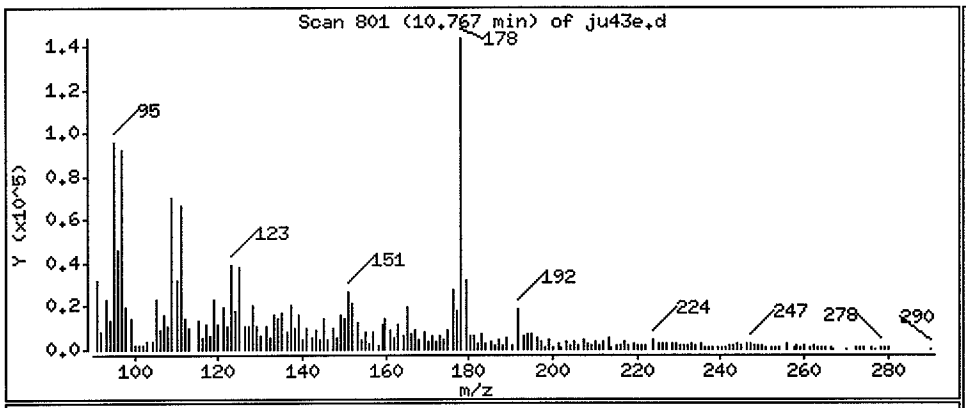
Operator: VTS

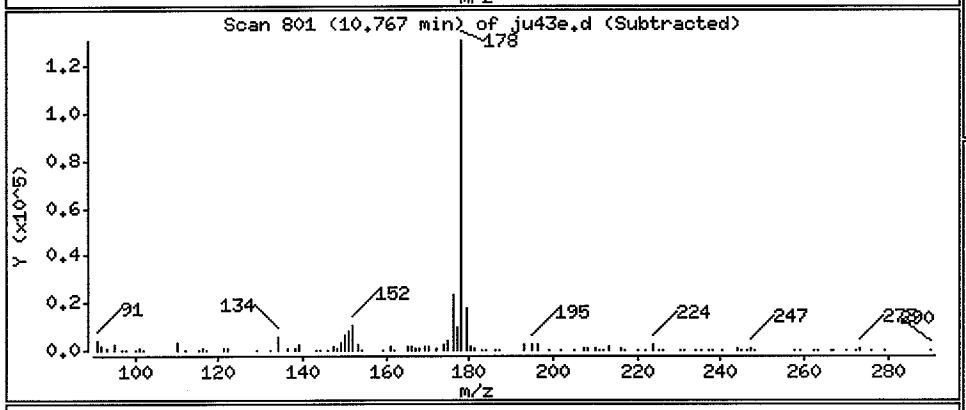
Column phase: ZB-5

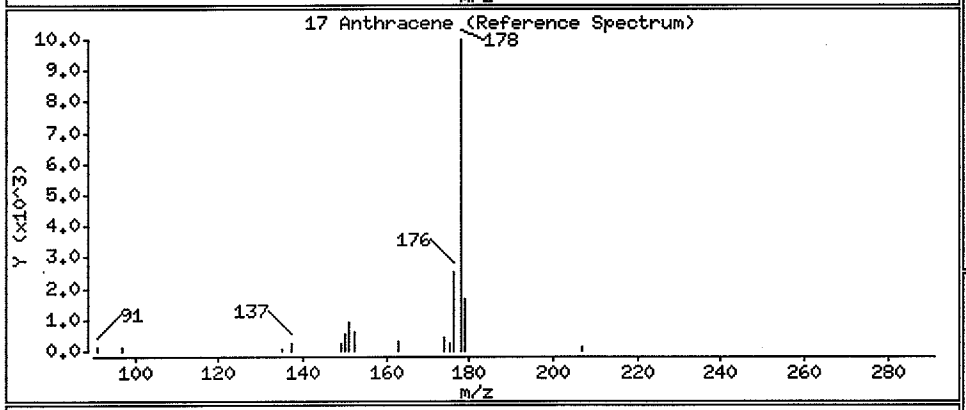
Column diameter: 0.25

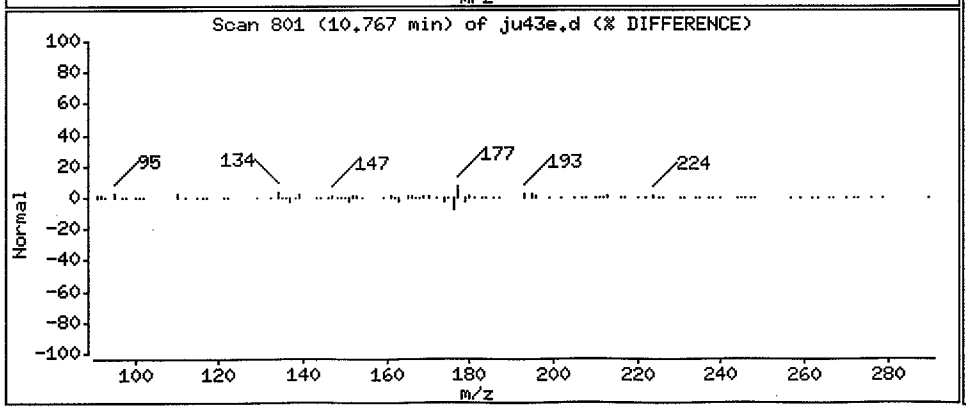
17 Anthracene

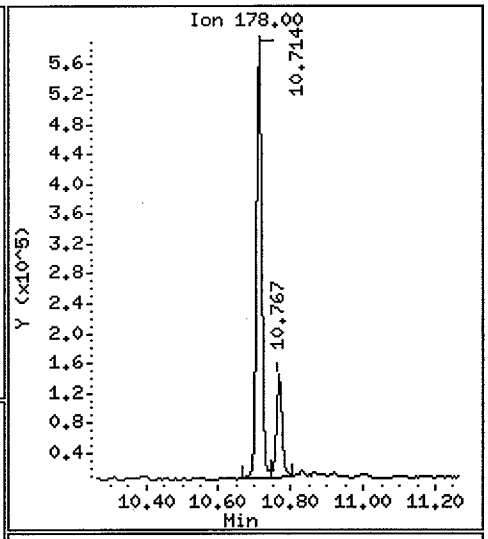
Concentration: 61.75 ug/kg

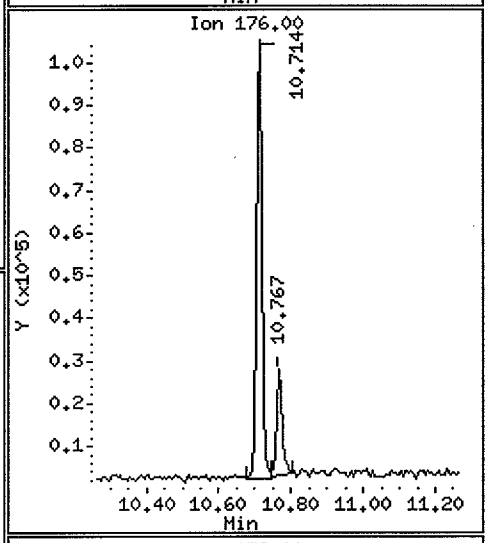


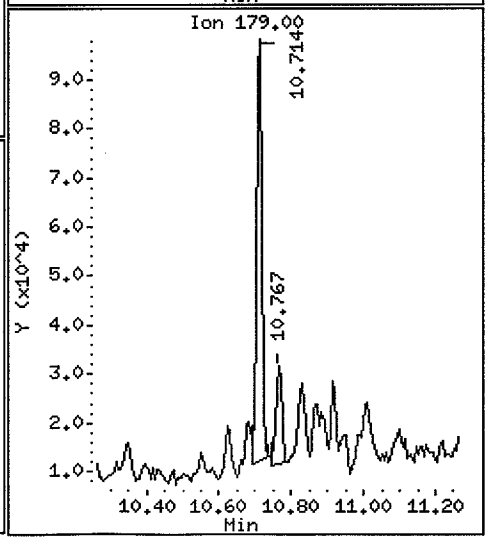












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

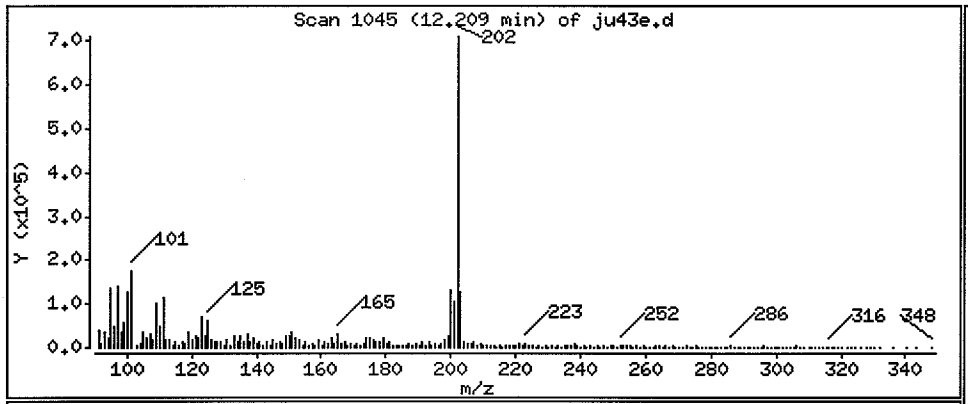
Operator: VTS

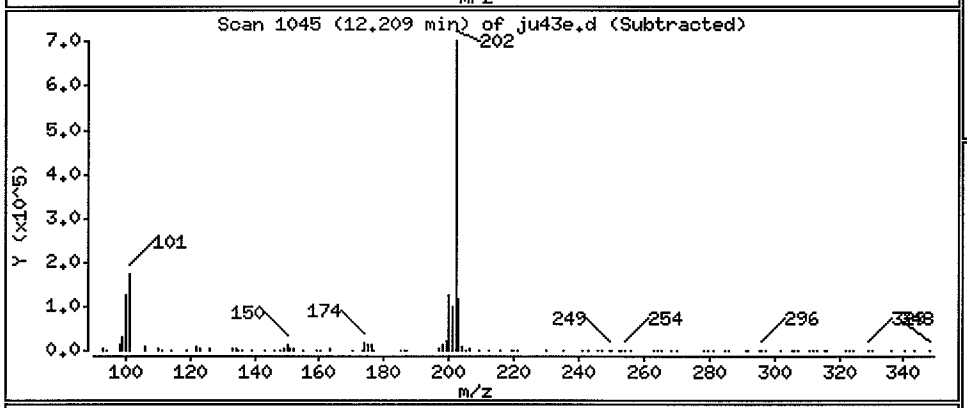
Column phase: ZB-5

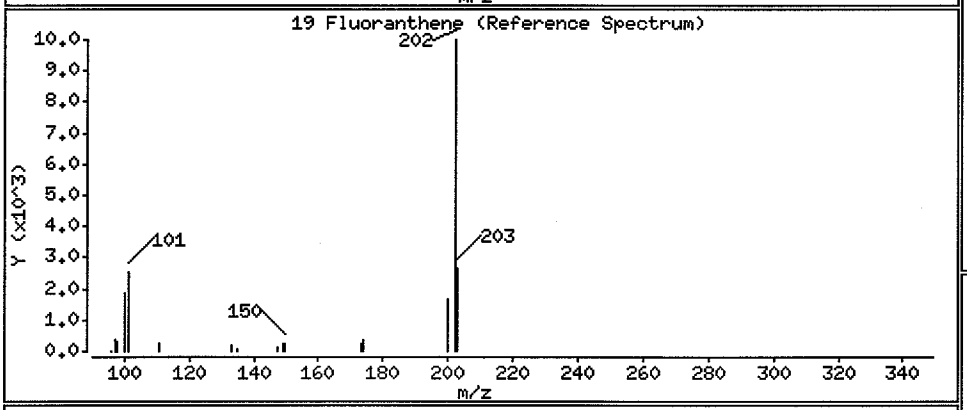
Column diameter: 0.25

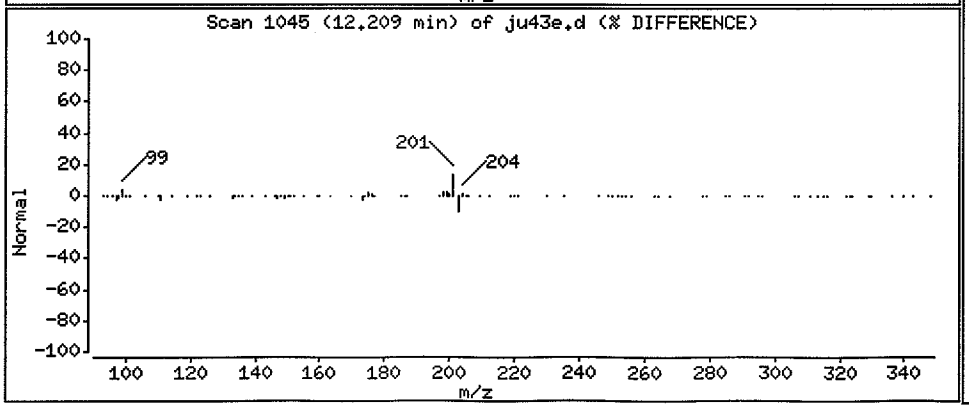
19 Fluoranthene

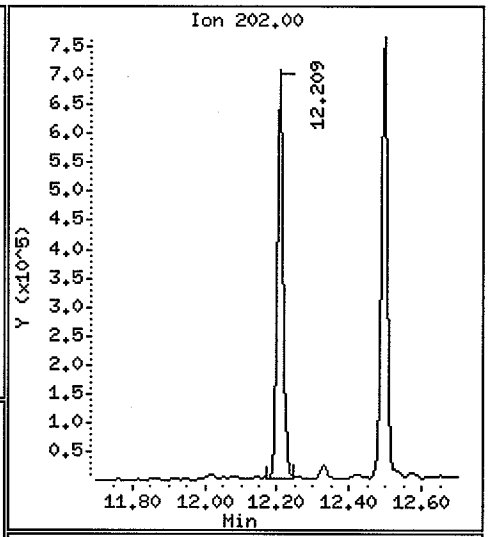
Concentration: 367.9 ug/kg

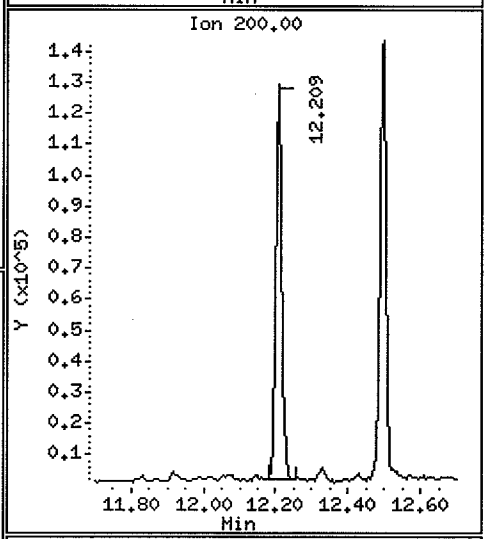


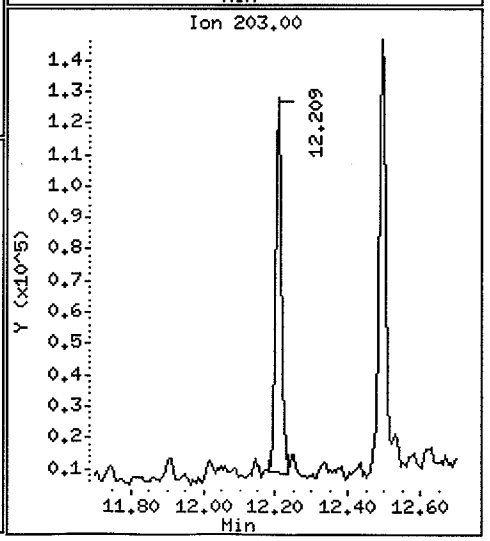












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

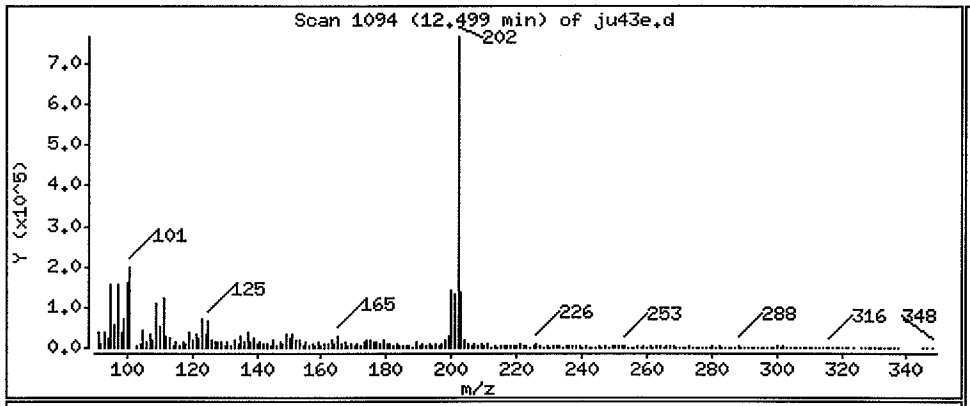
Operator: VTS

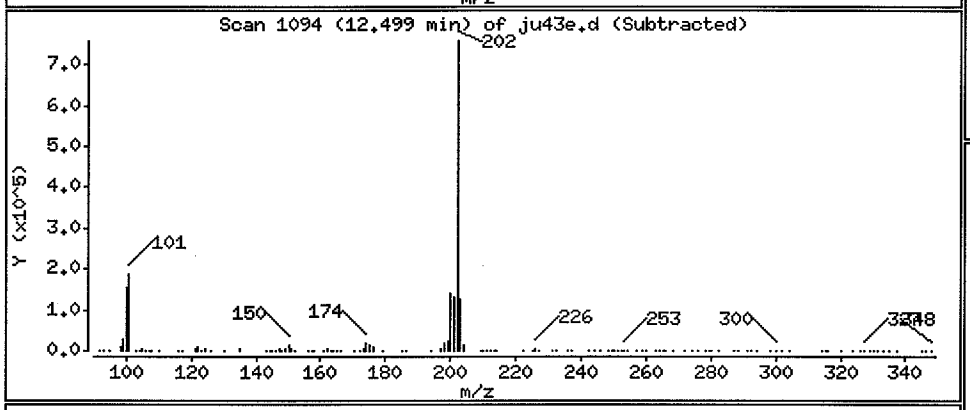
Column phase: ZB-5

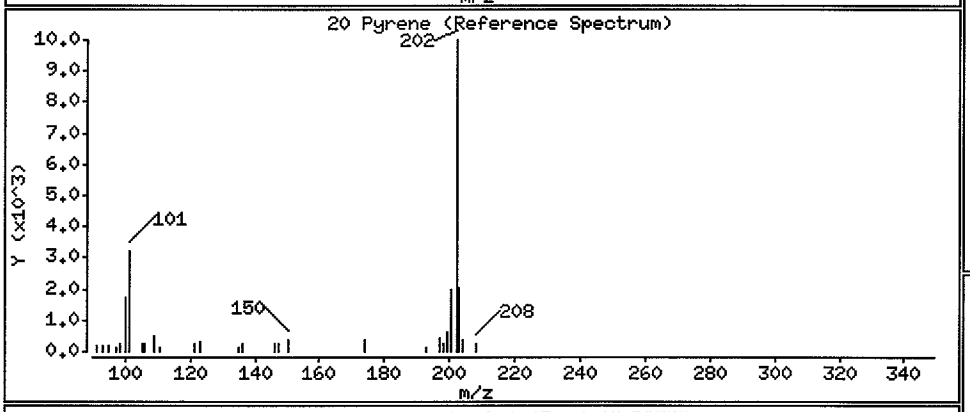
Column diameter: 0.25

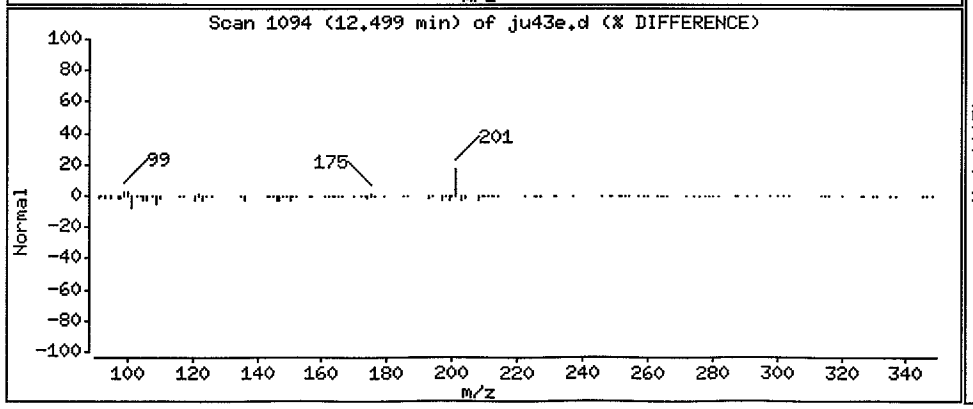
20 Pyrene

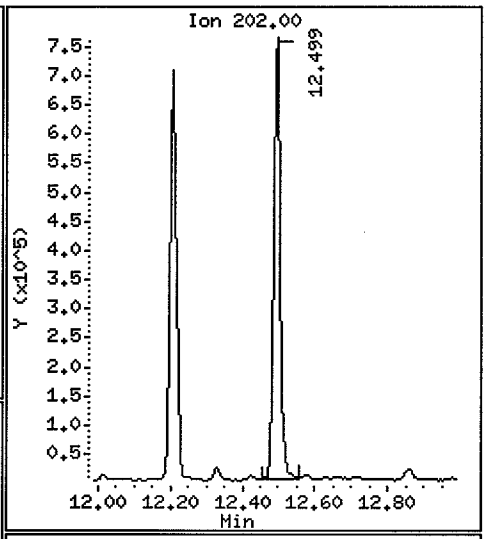
Concentration: 397.7 ug/kg

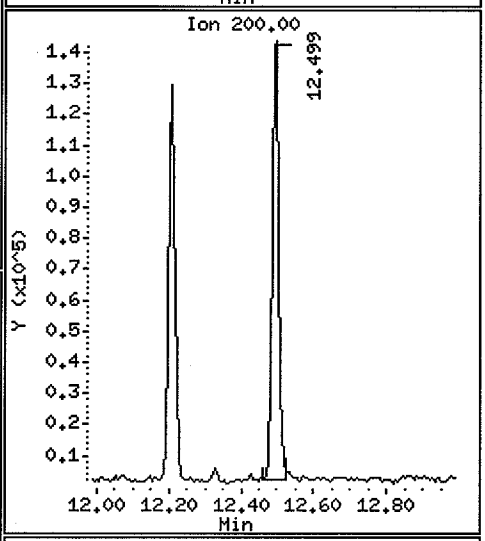


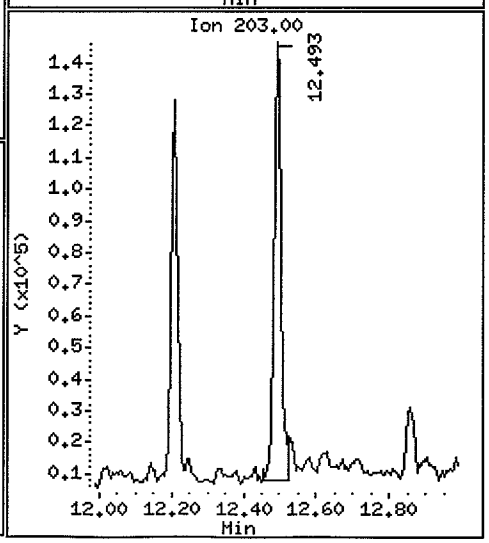












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

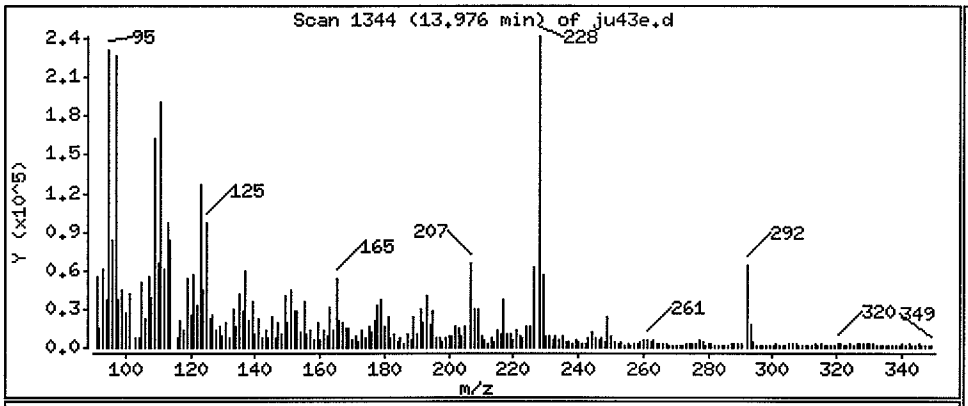
Operator: VTS

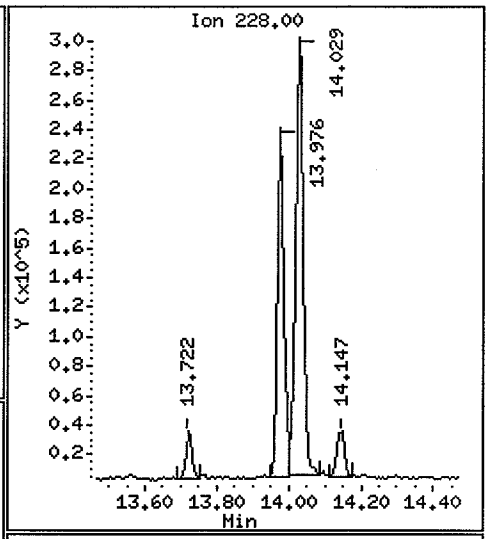
Column phase: ZB-5

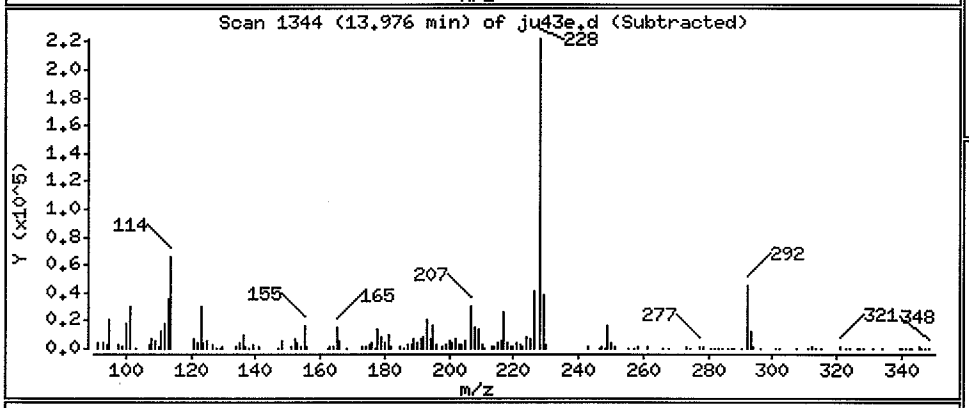
Column diameter: 0.25

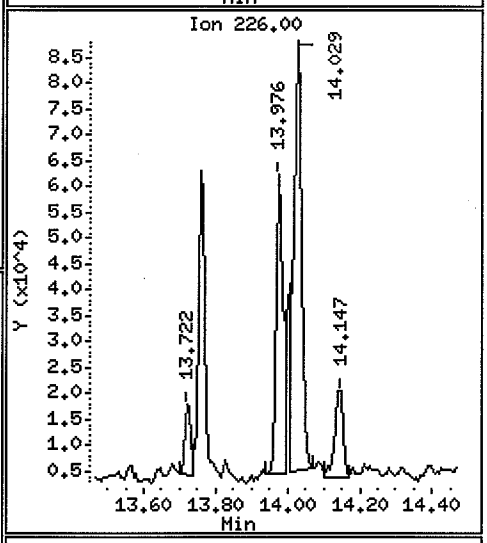
22 Benzo(a)anthracene

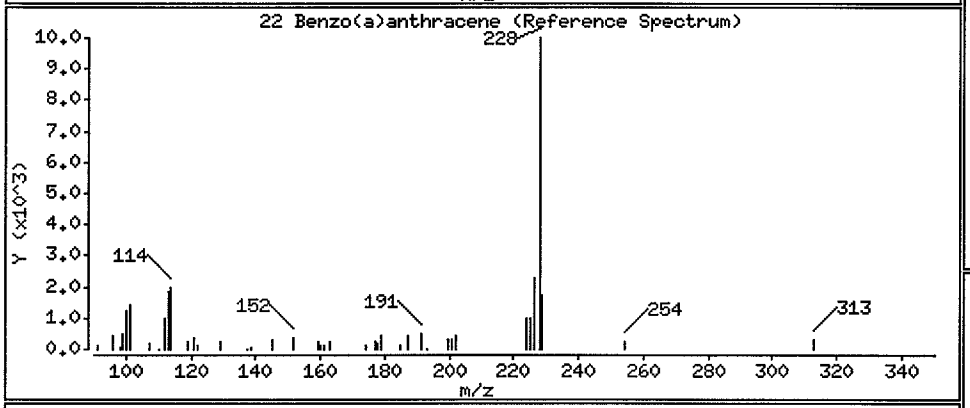
Concentration: 144.0 ug/kg

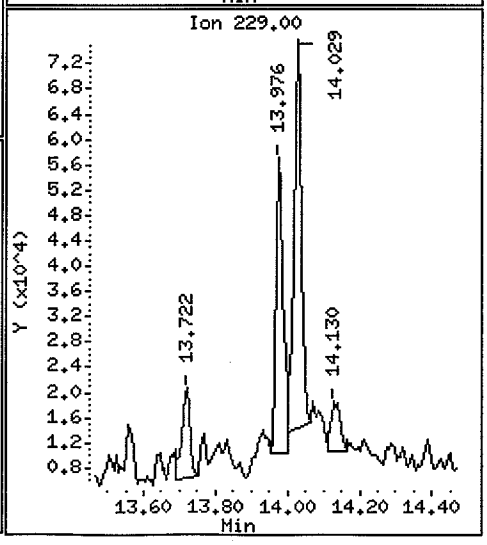


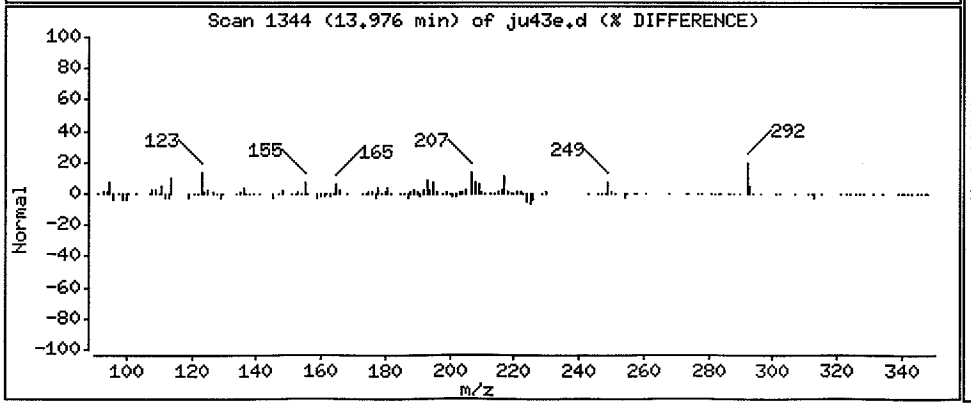












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

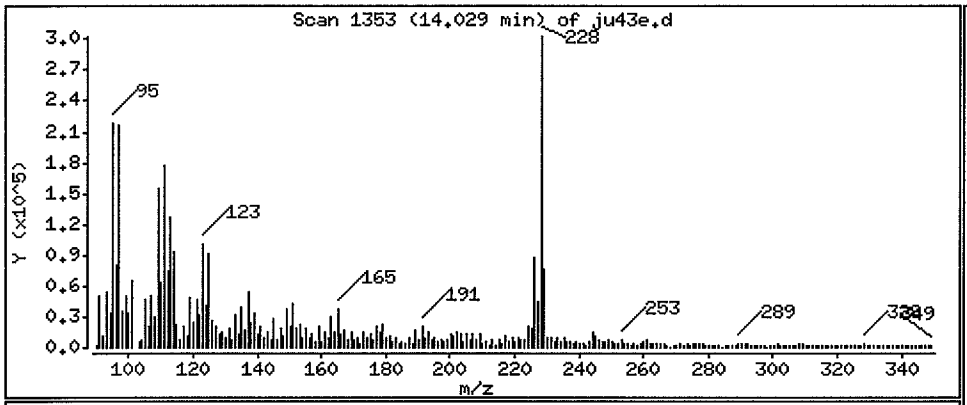
Operator: VTS

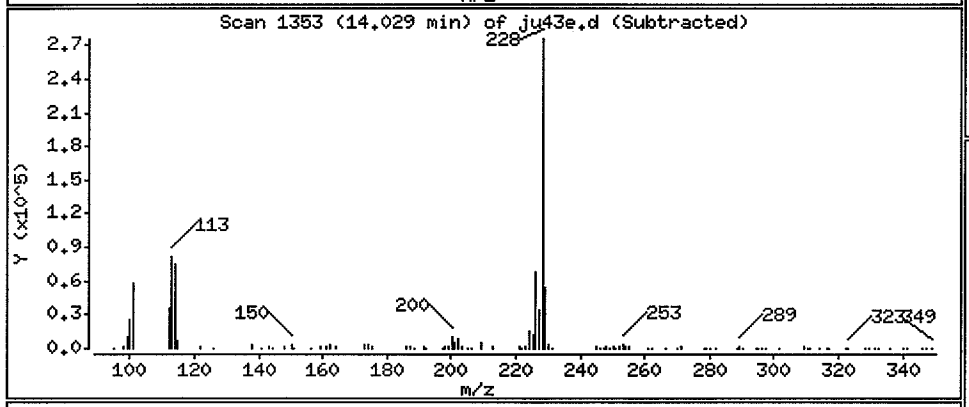
Column phase: ZB-5

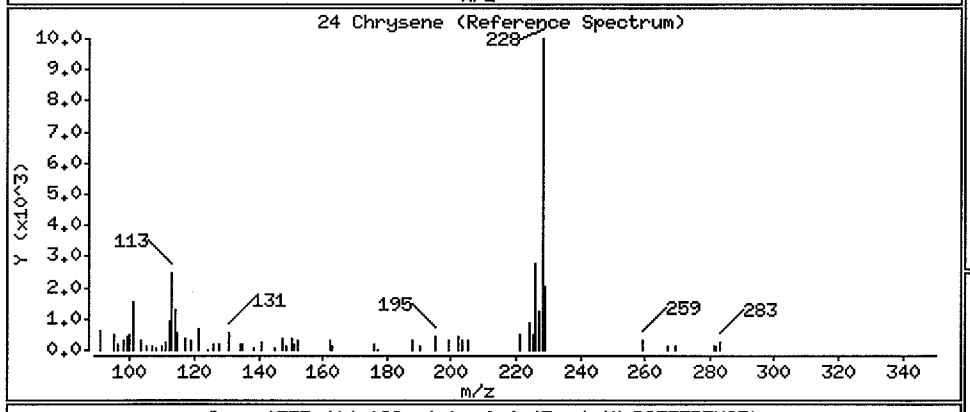
Column diameter: 0.25

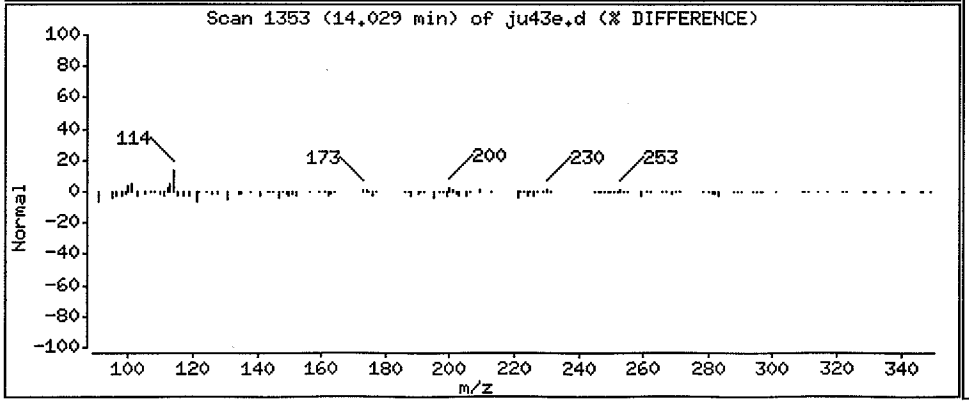
24 Chrysene

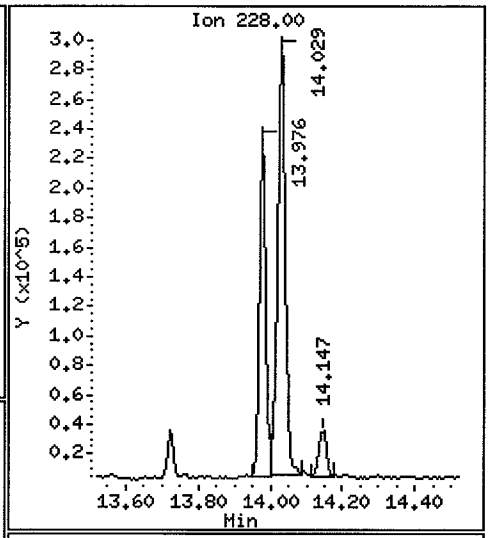
Concentration: 228.4 ug/kg

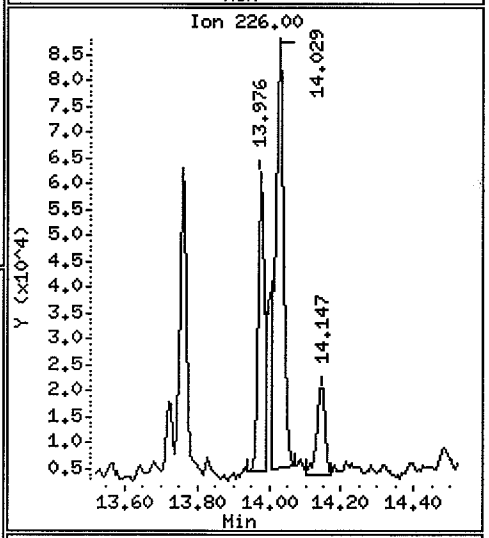


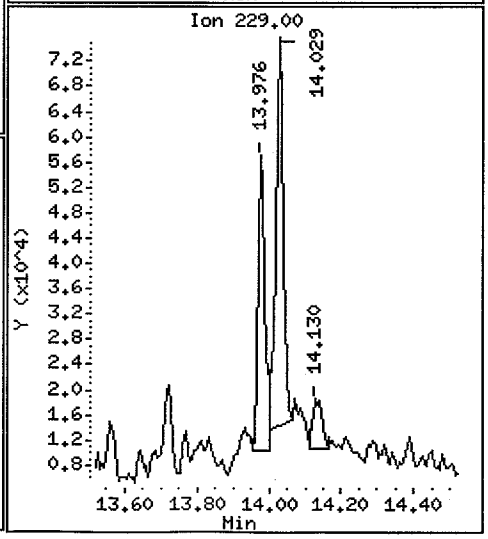












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

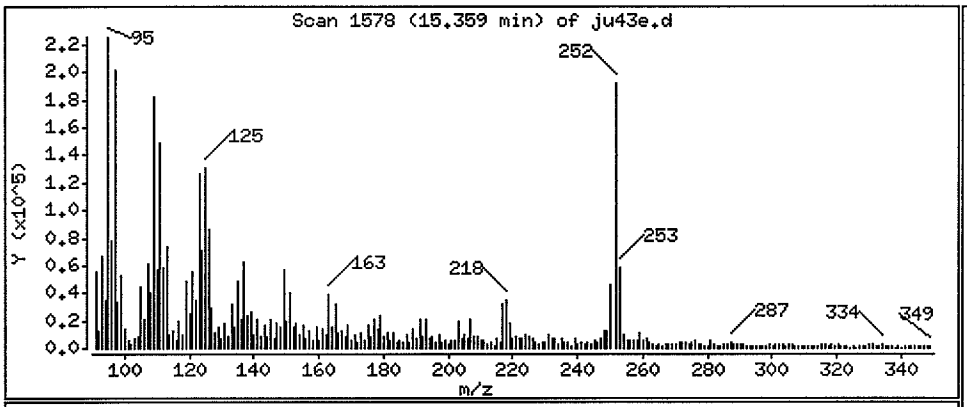
Operator: VTS

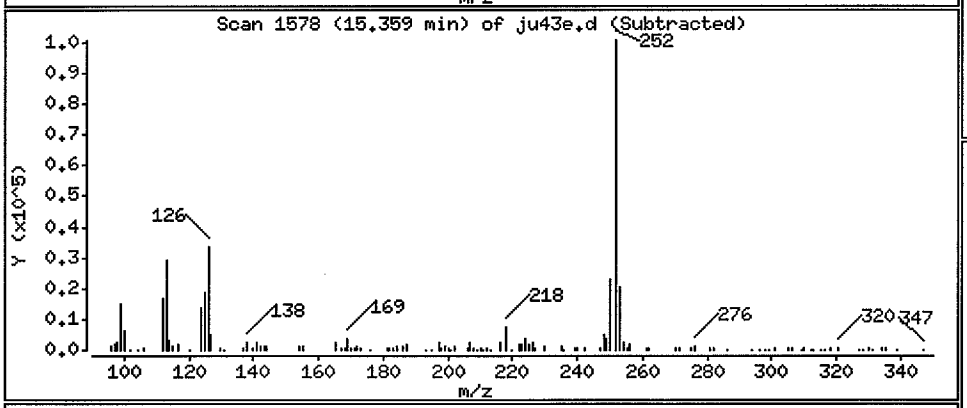
Column phase: ZB-5

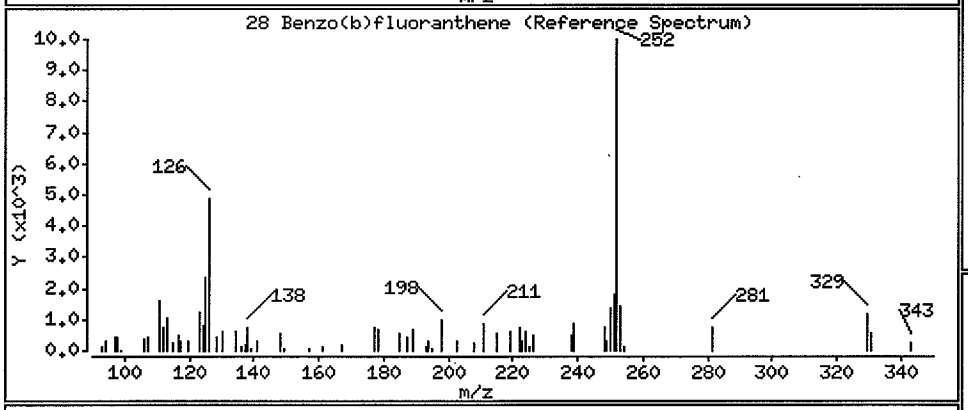
Column diameter: 0.25

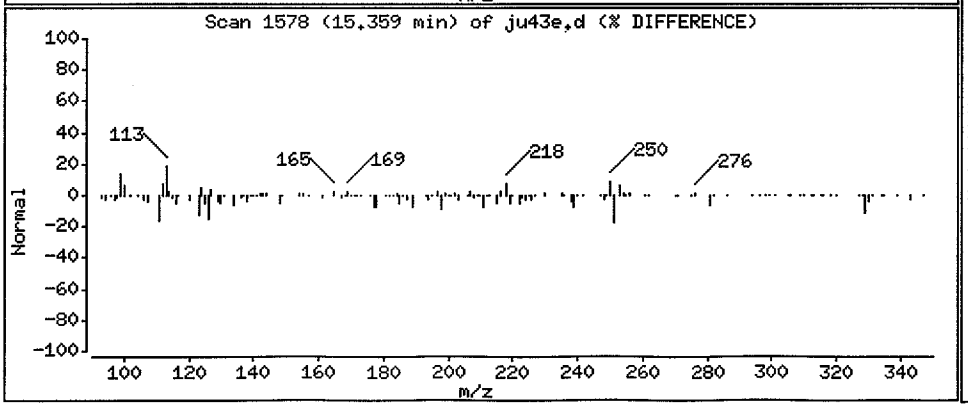
28 Benzo(b)fluoranthene

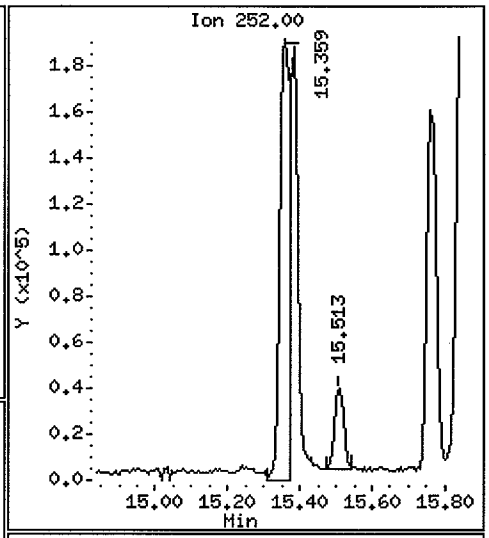
Concentration: 175.1 ug/kg

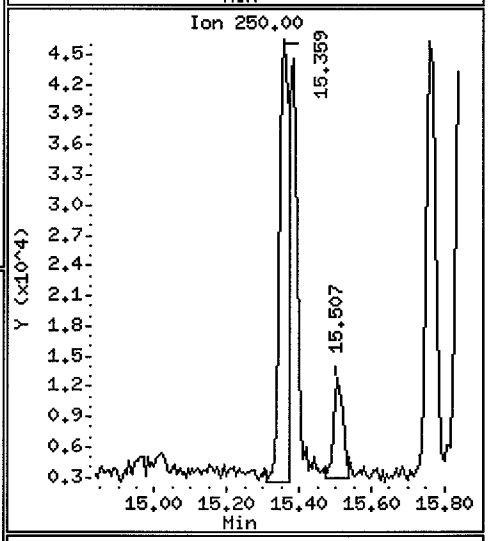


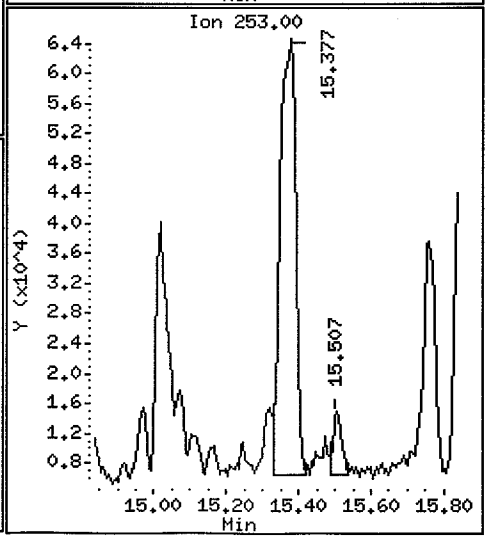












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

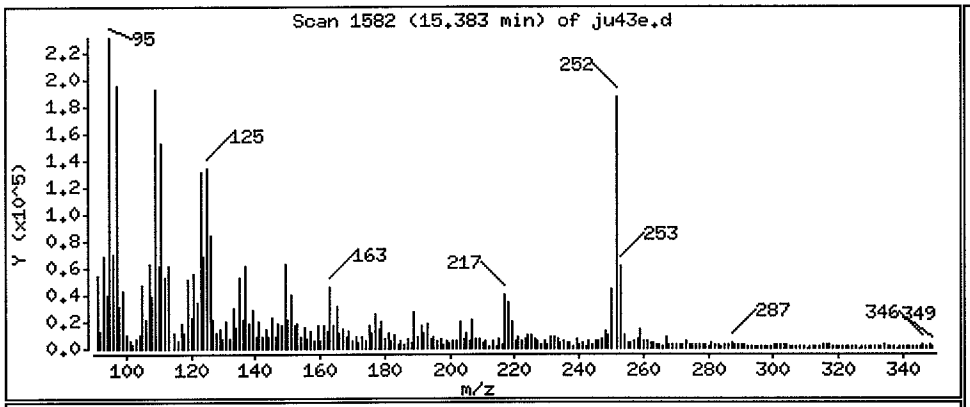
Operator: VTS

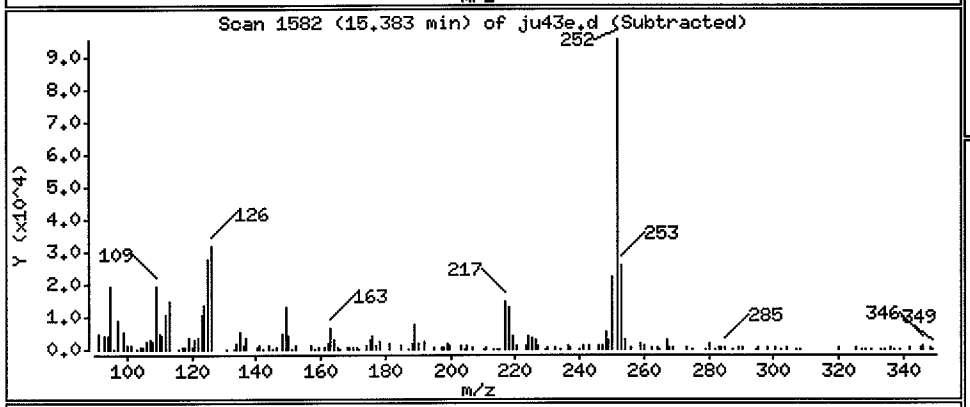
Column phase: ZB-5

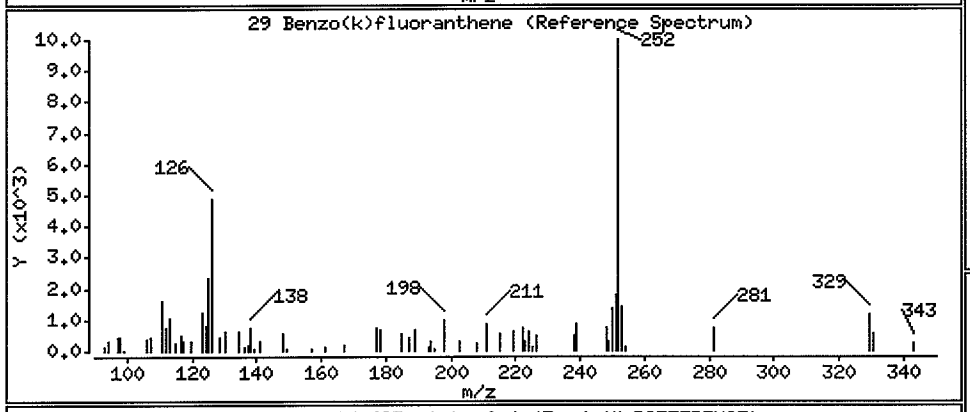
Column diameter: 0.25

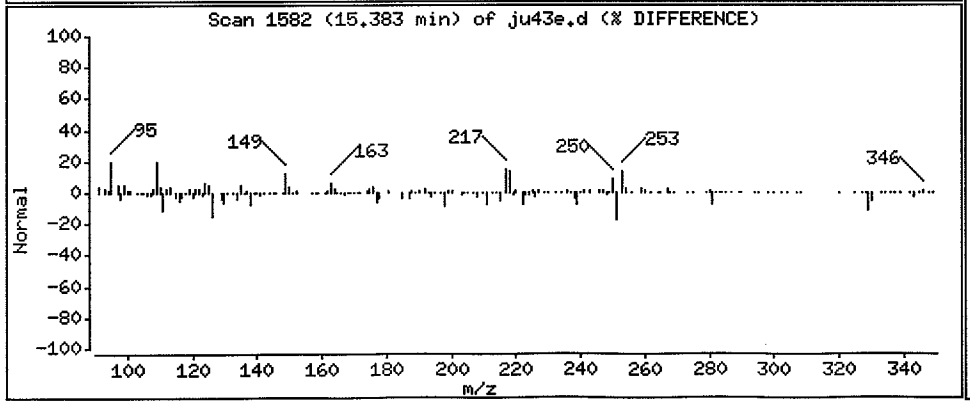
29 Benzo(k)fluoranthene

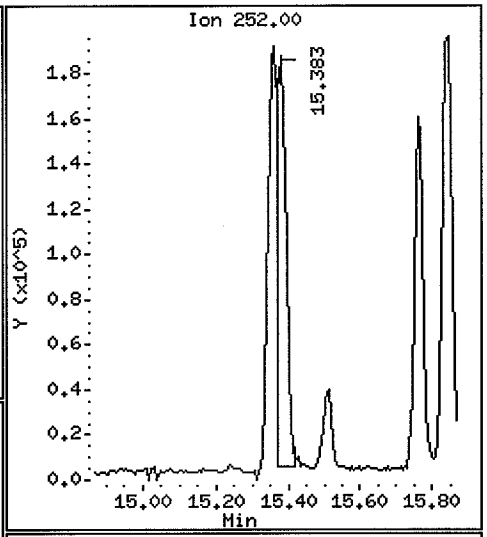
Concentration: 140.6 ug/kg

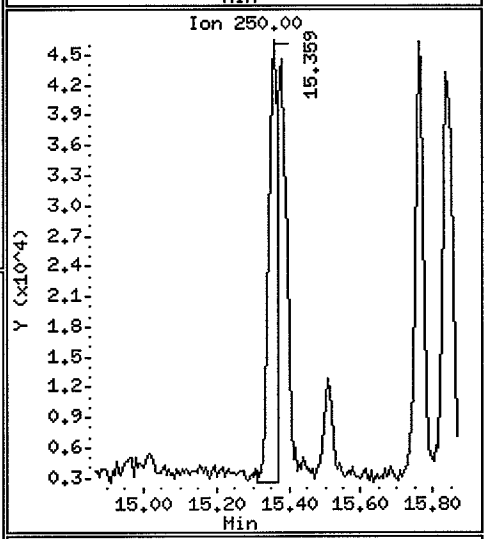


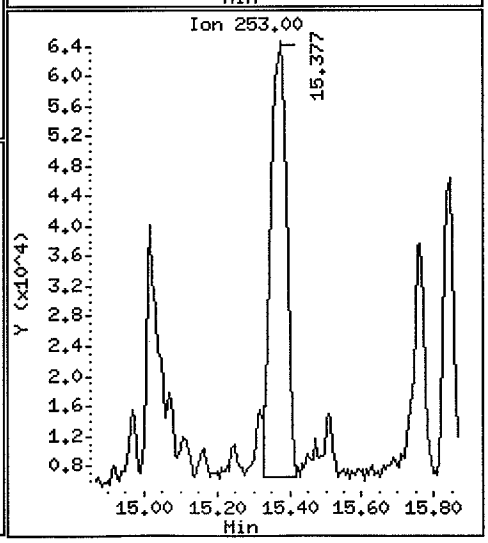












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

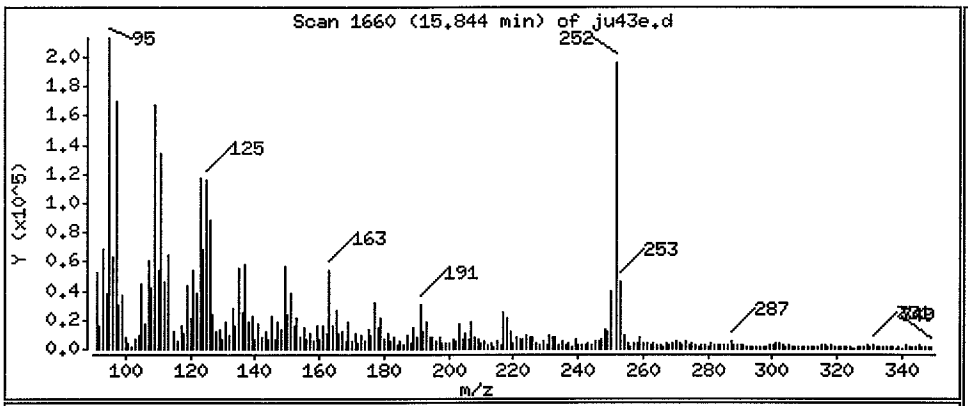
Operator: VTS

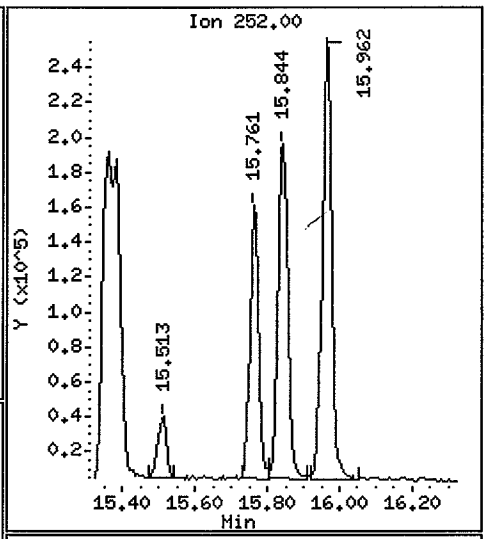
Column phase: ZB-5

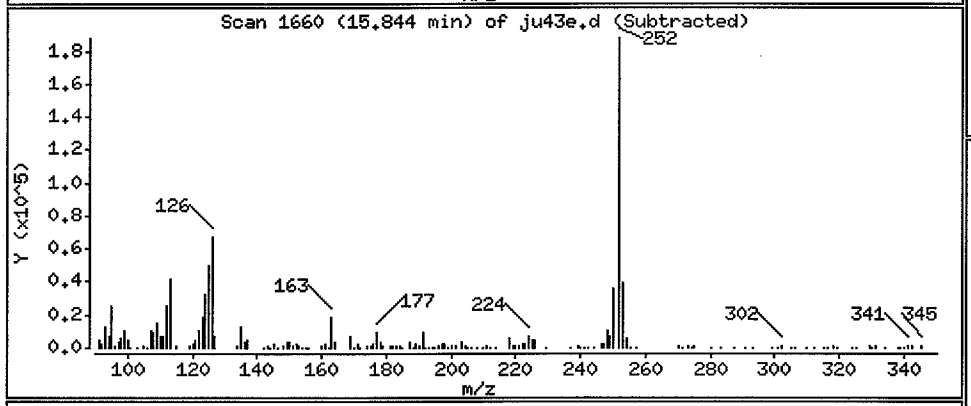
Column diameter: 0.25

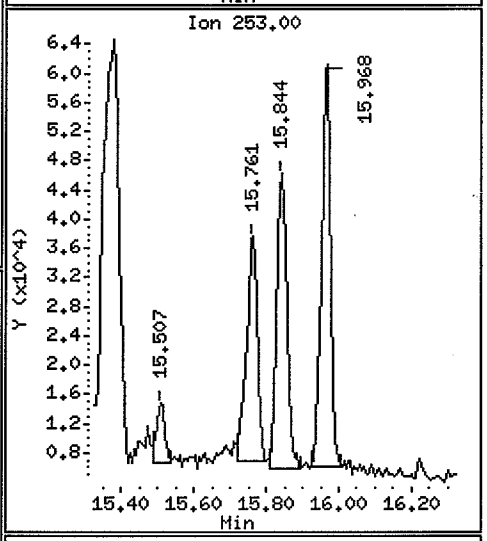
30 Benzo(a)pyrene

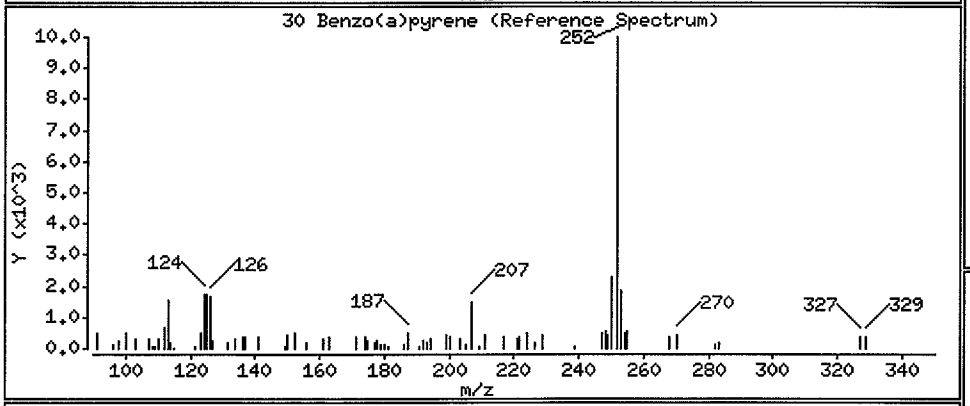
Concentration: 189.5 ug/kg

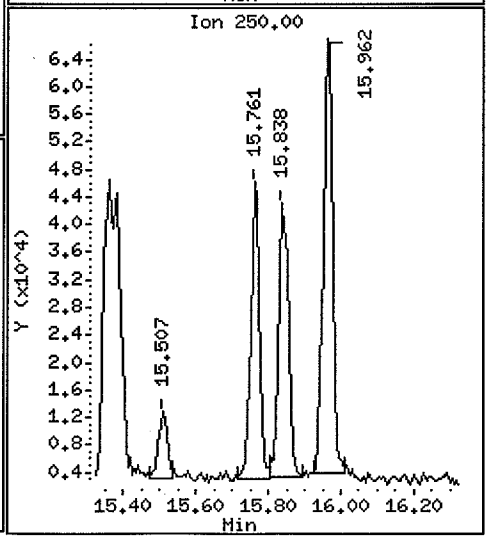


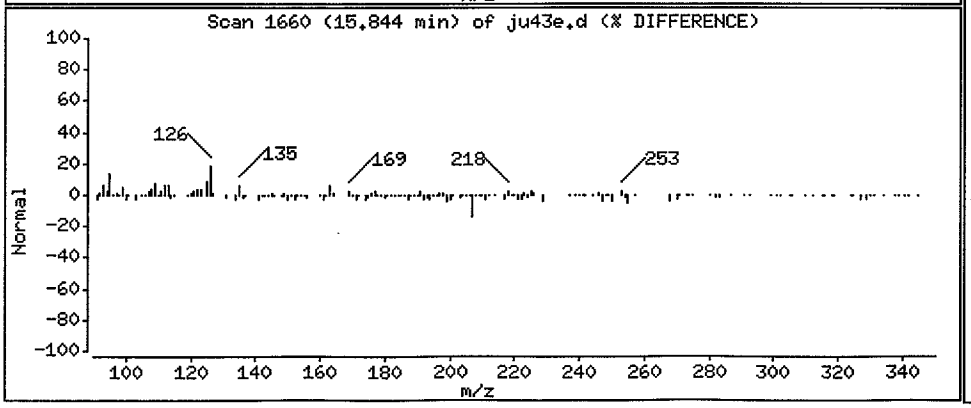












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

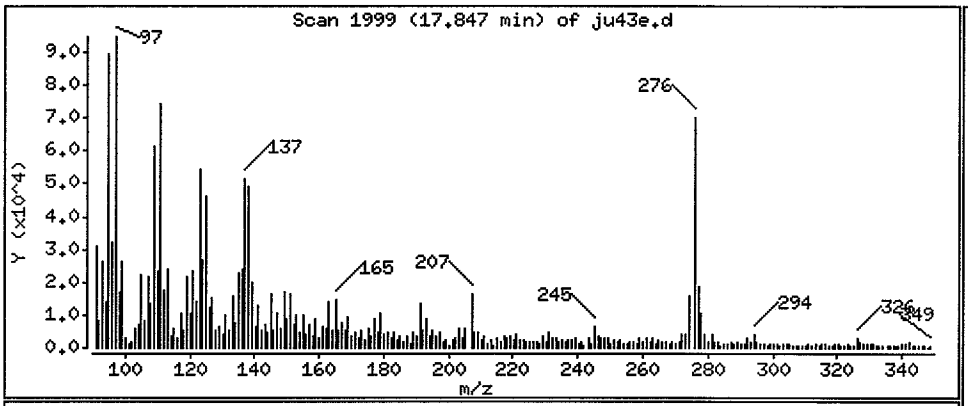
Operator: VTS

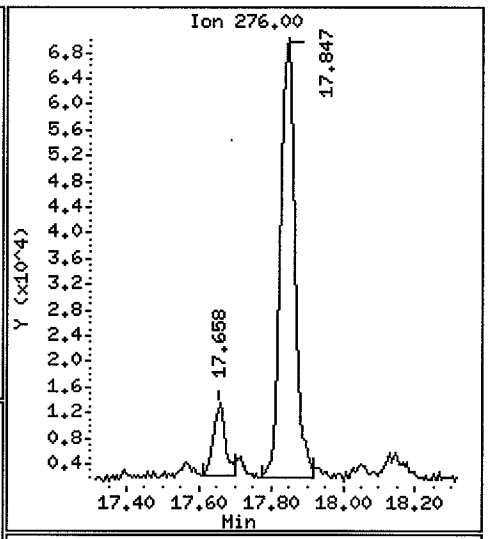
Column phase: ZB-5

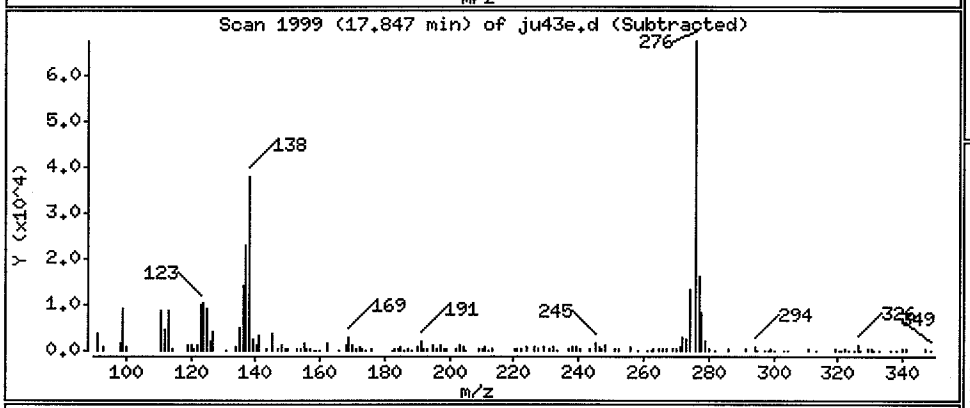
Column diameter: 0.25

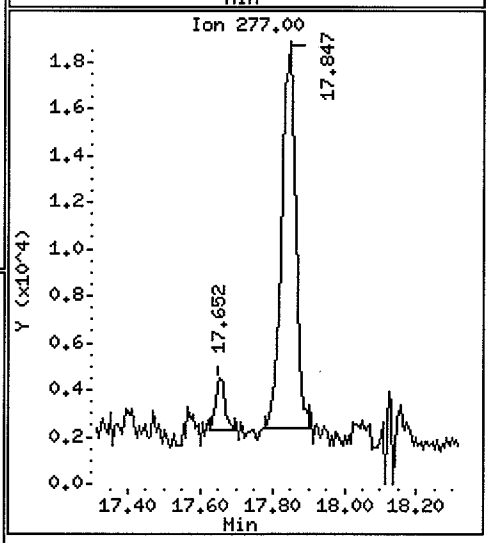
33 Indeno(1,2,3-cd)pyrene

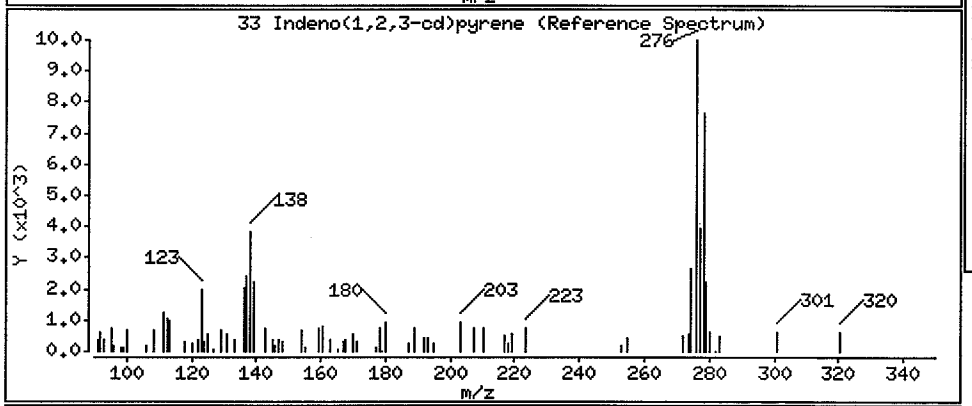
Concentration: 94.98 ug/kg

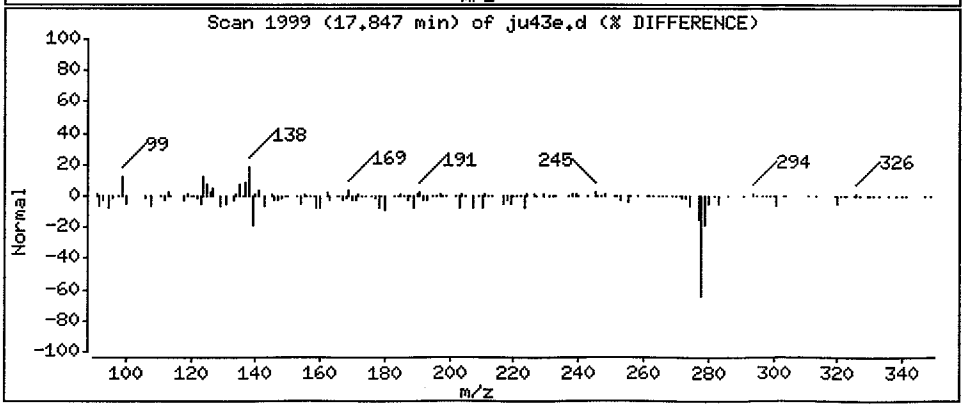












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

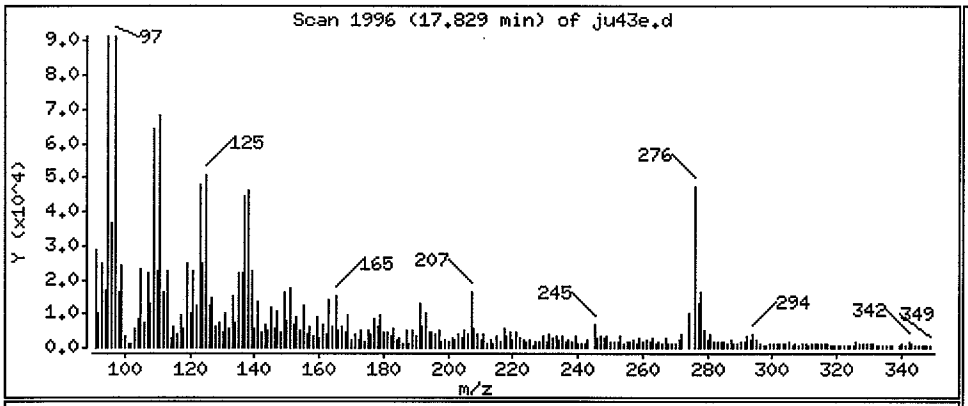
Operator: VTS

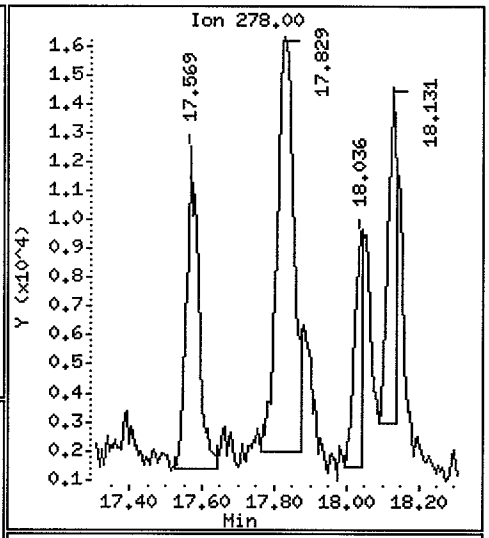
Column phase: ZB-5

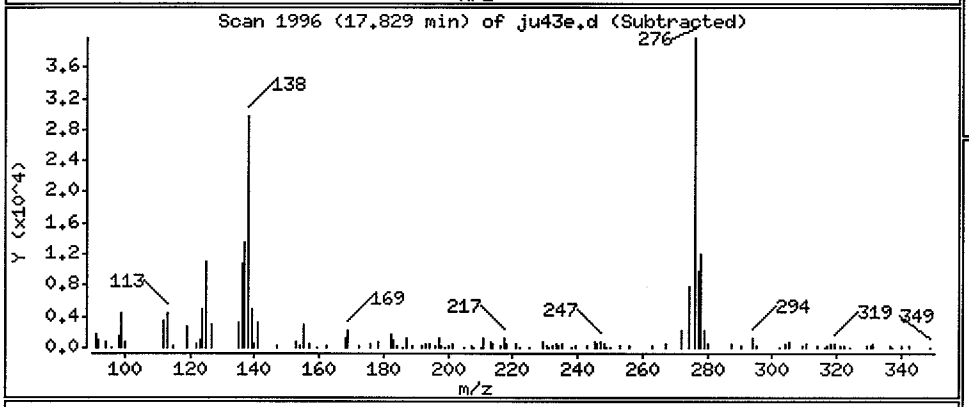
Column diameter: 0.25

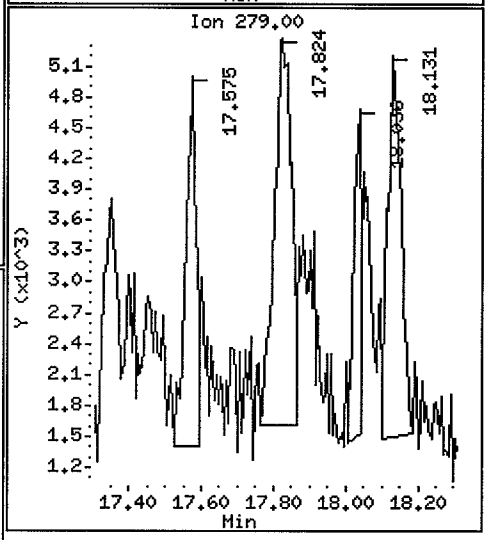
34 Dibenz(a,h)anthracene

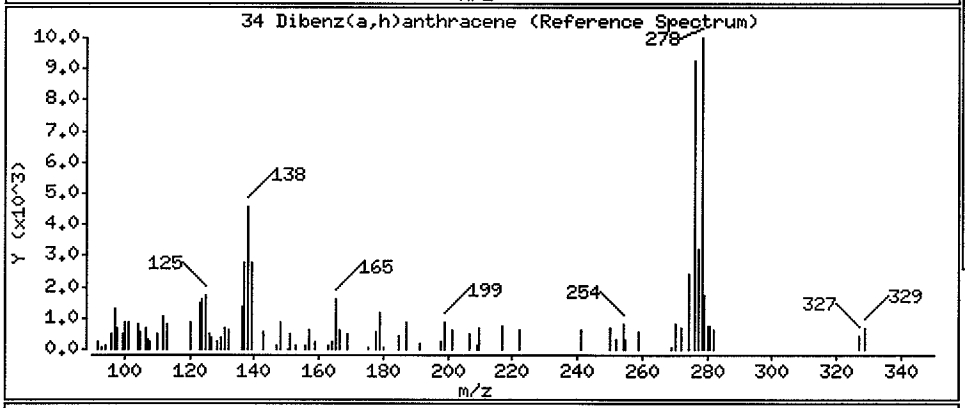
Concentration: 28.74 ug/kg

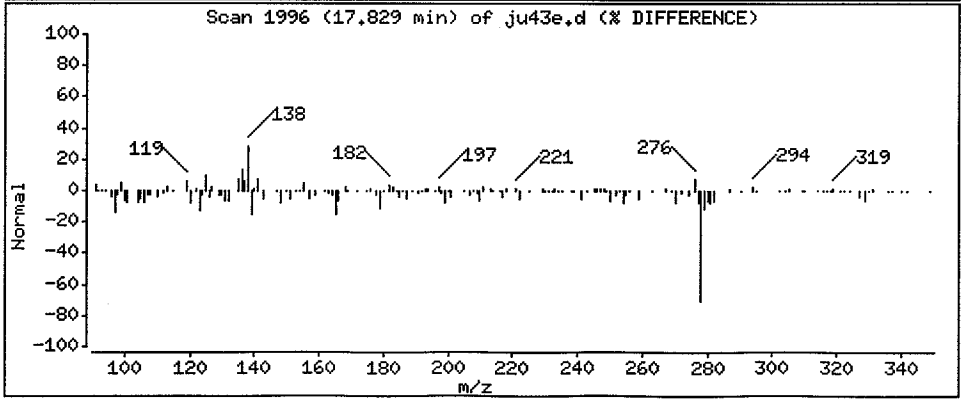












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

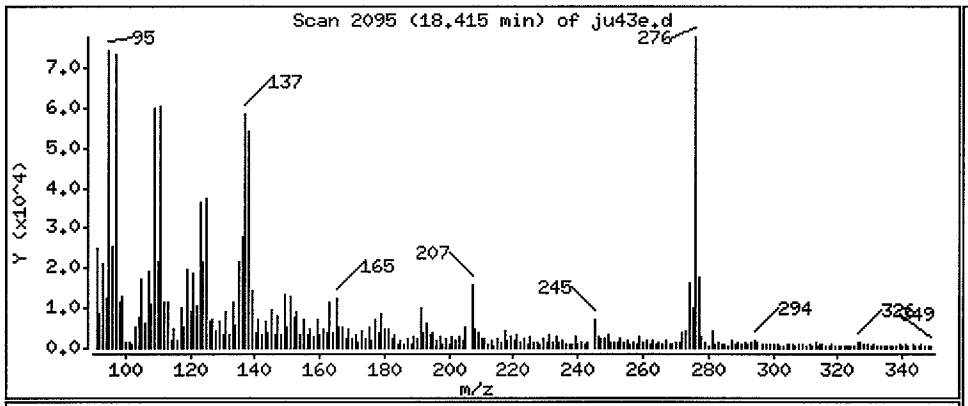
Operator: VTS

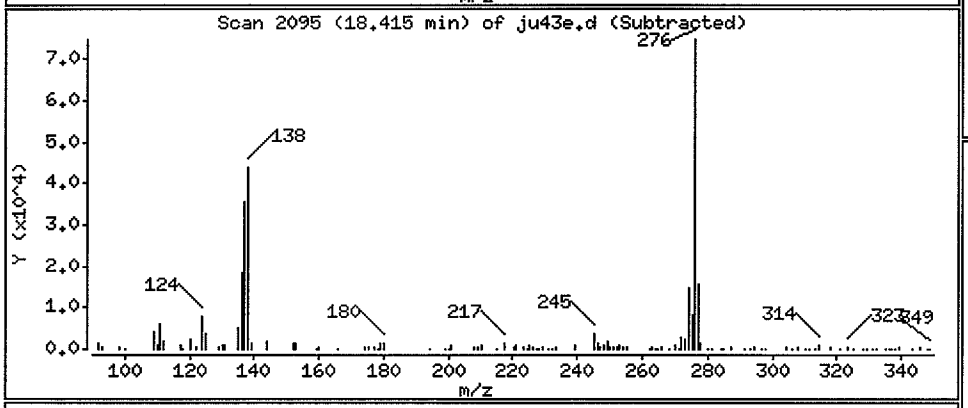
Column phase: ZB-5

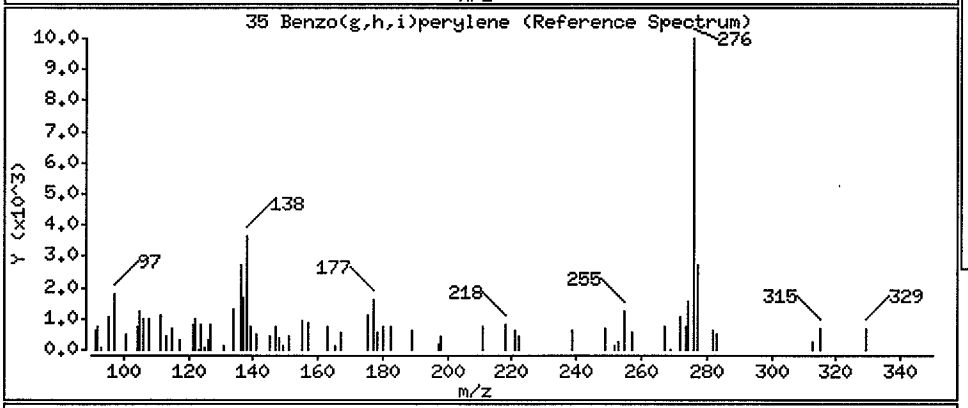
Column diameter: 0.25

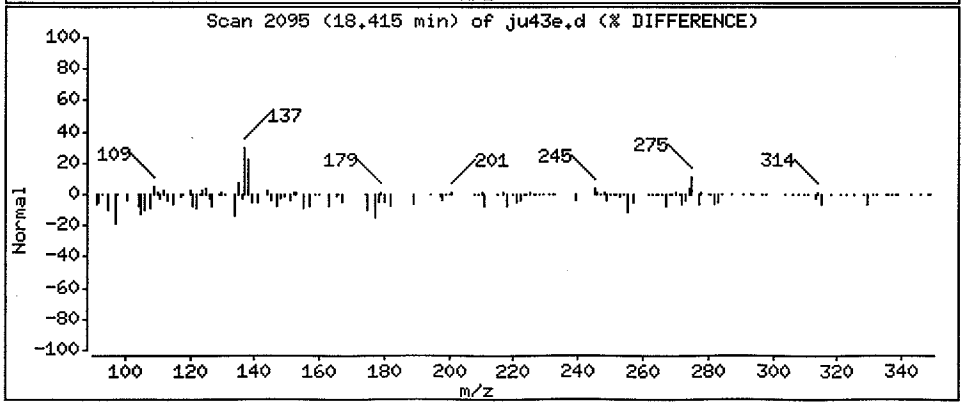
35 Benzo(g,h,i)perylene

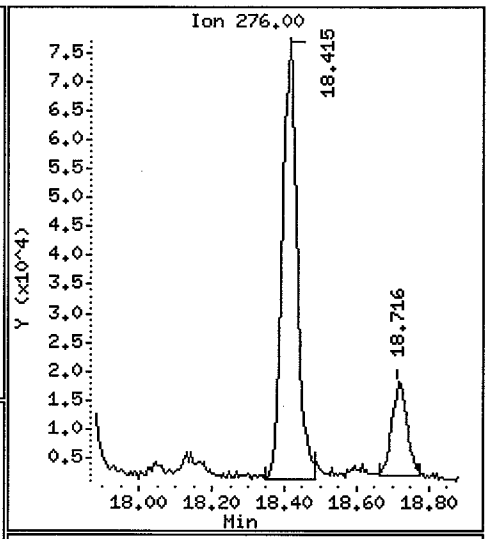
Concentration: 121.7 ug/kg

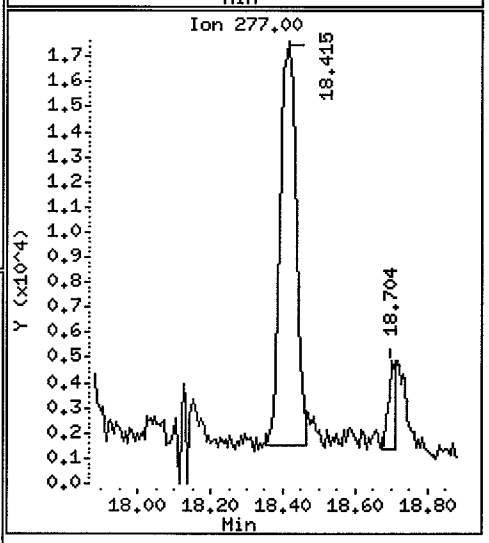












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

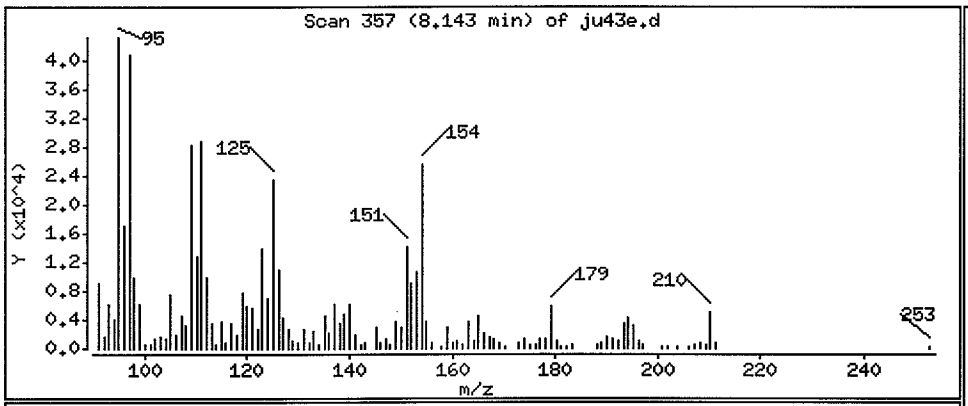
Operator: VTS

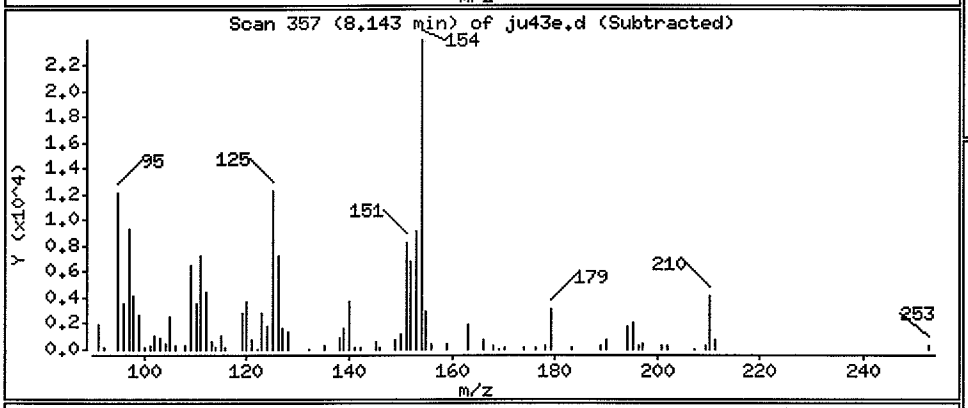
Column phase: ZB-5

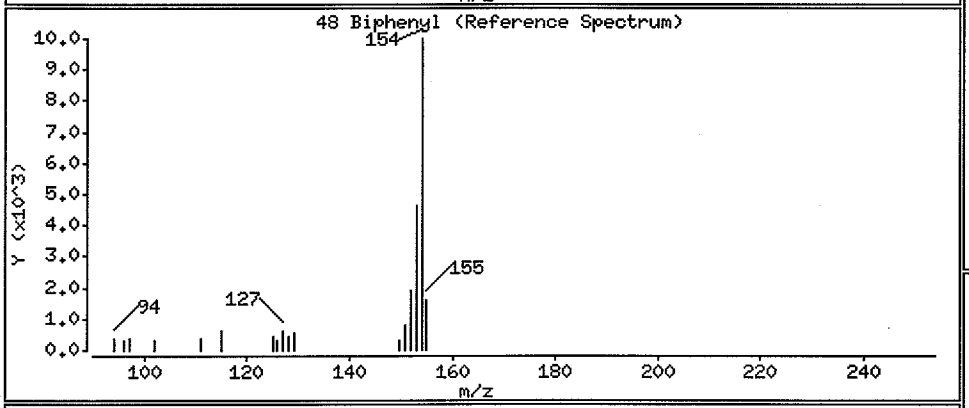
Column diameter: 0.25

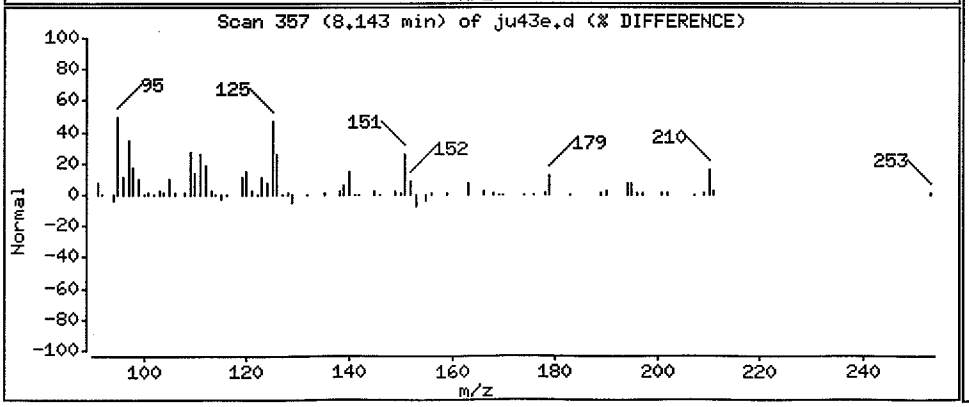
48 Biphenyl

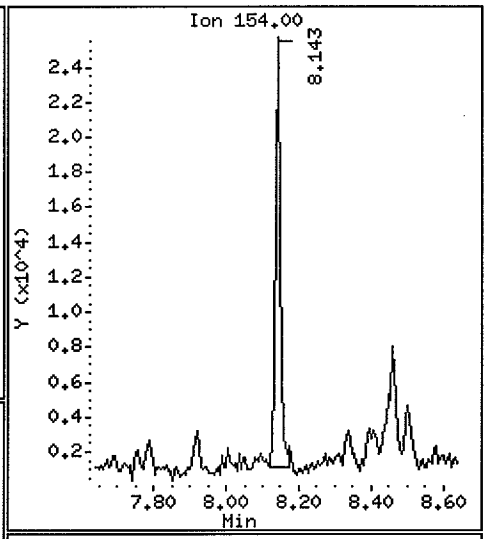
Concentration: 10.45 ug/kg

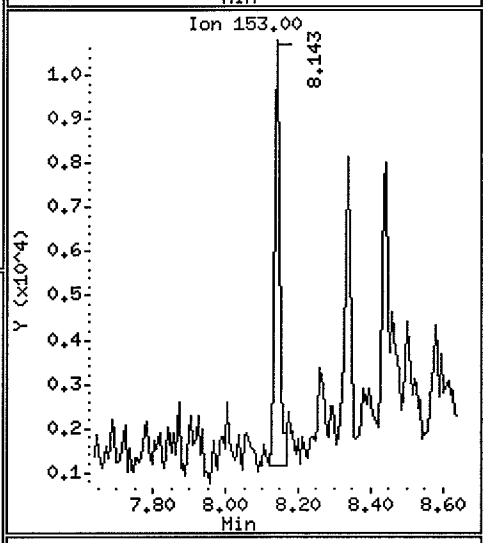


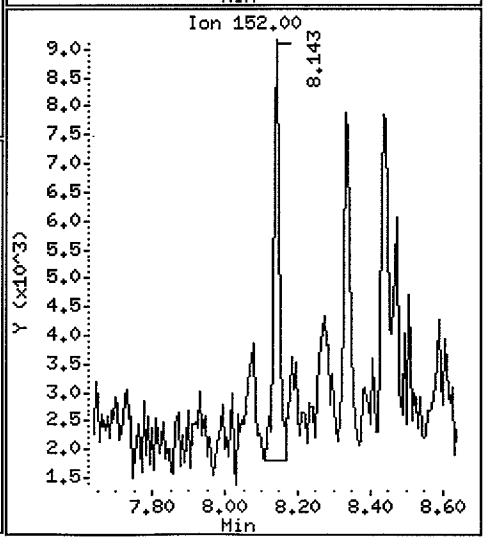












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

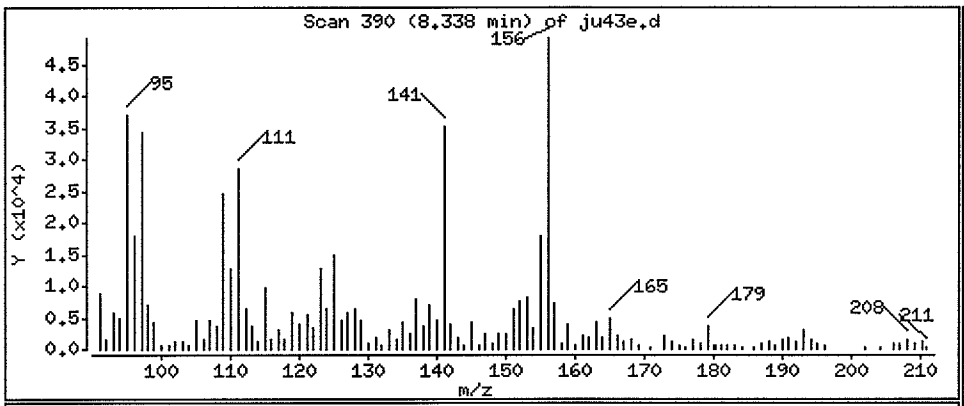
Operator: VTS

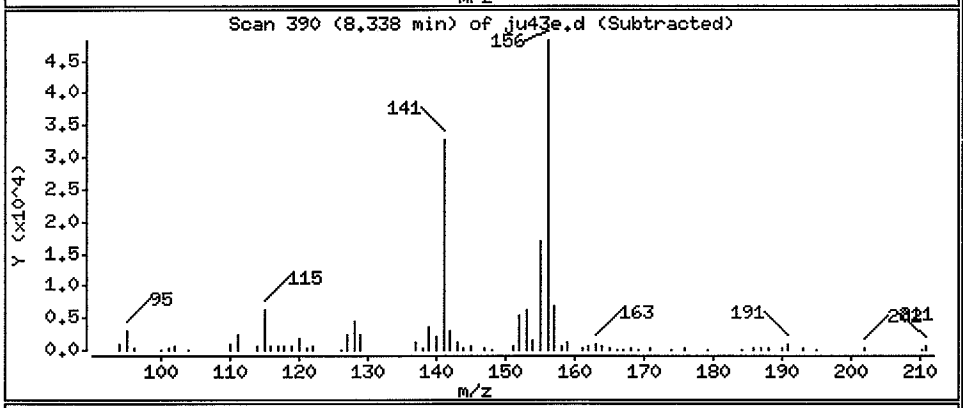
Column phase: ZB-5

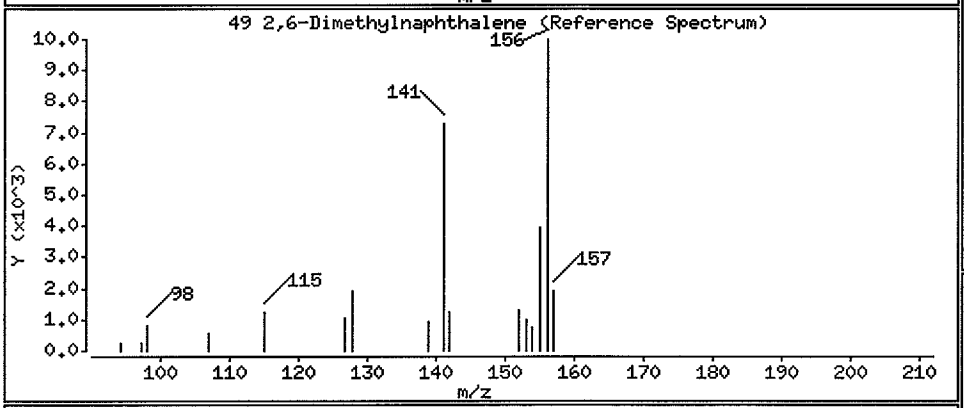
Column diameter: 0.25

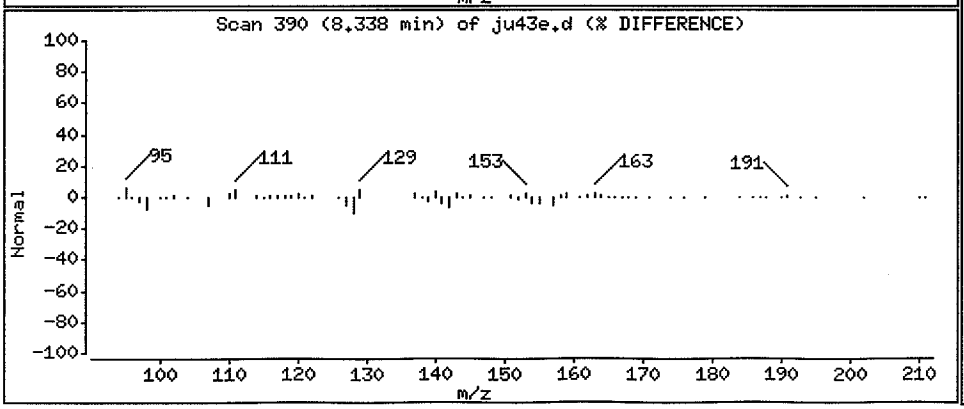
49 2,6-Dimethylnaphthalene

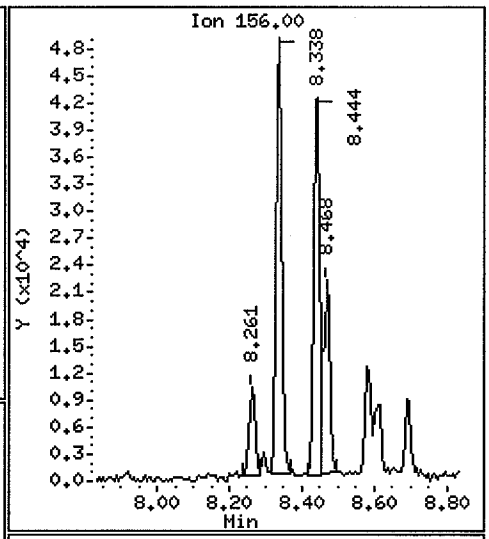
Concentration: 33.10 ug/kg

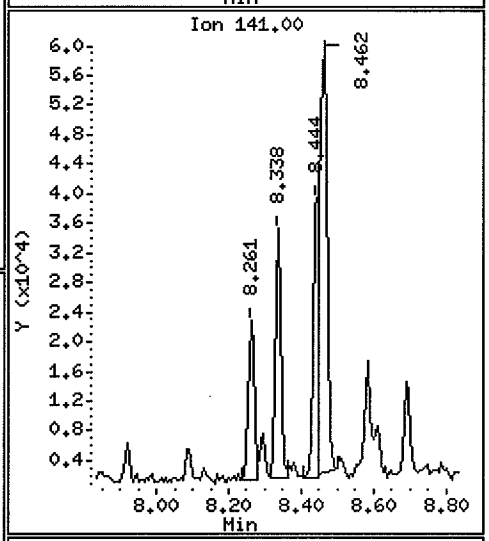


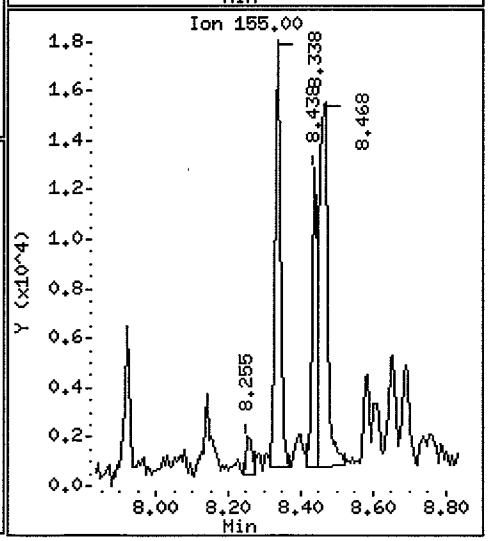












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

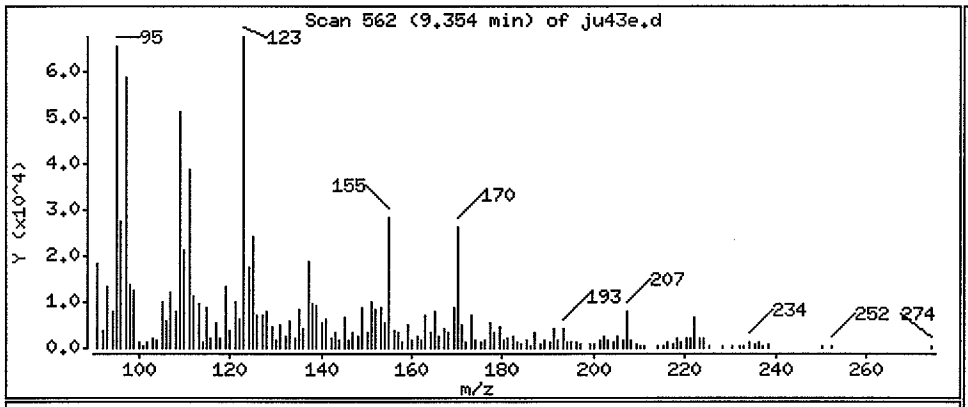
Operator: VTS

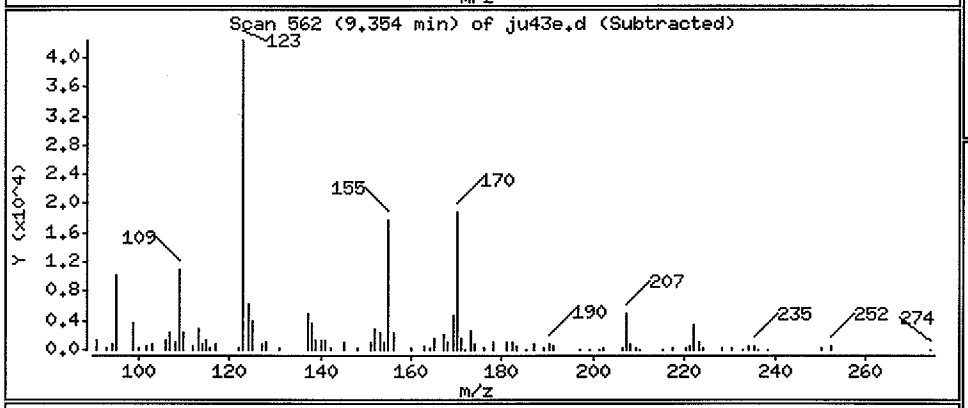
Column phase: ZB-5

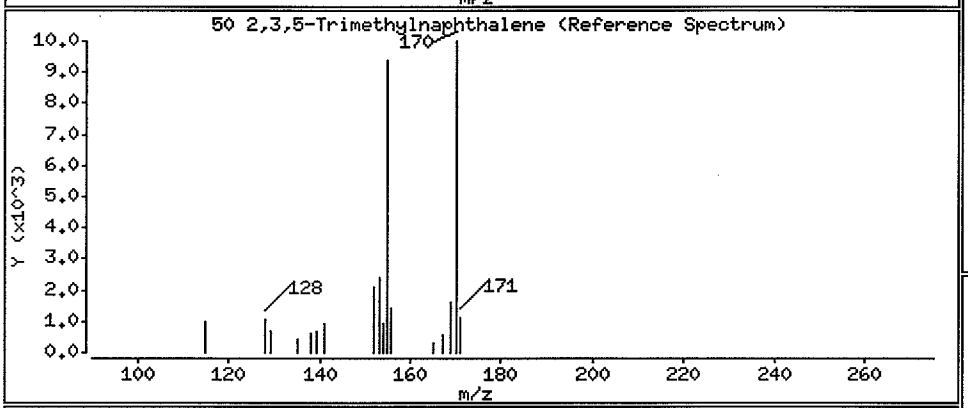
Column diameter: 0.25

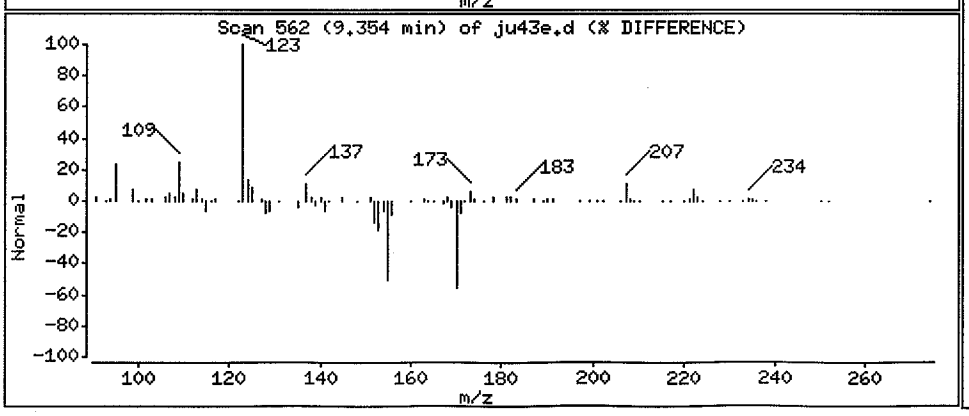
50 2,3,5-Trimethylnaphthalene

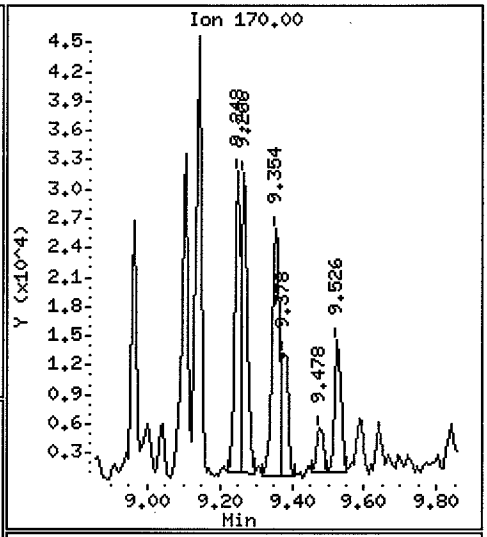
Concentration: 28.94 ug/kg

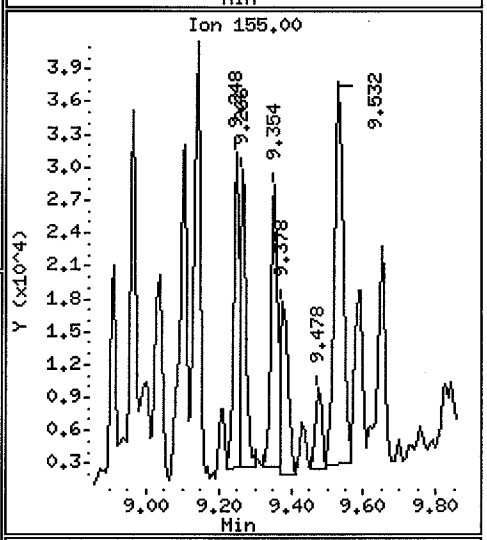


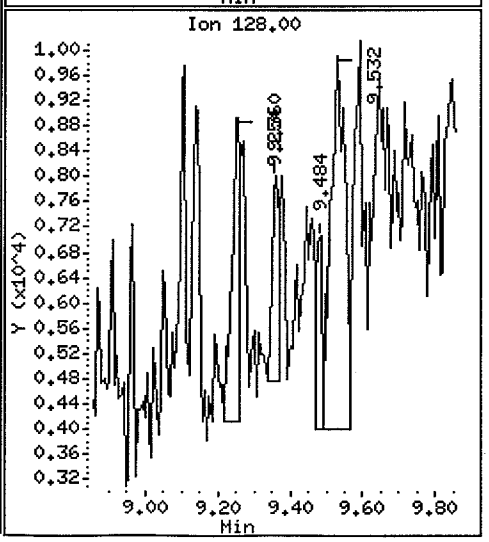












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

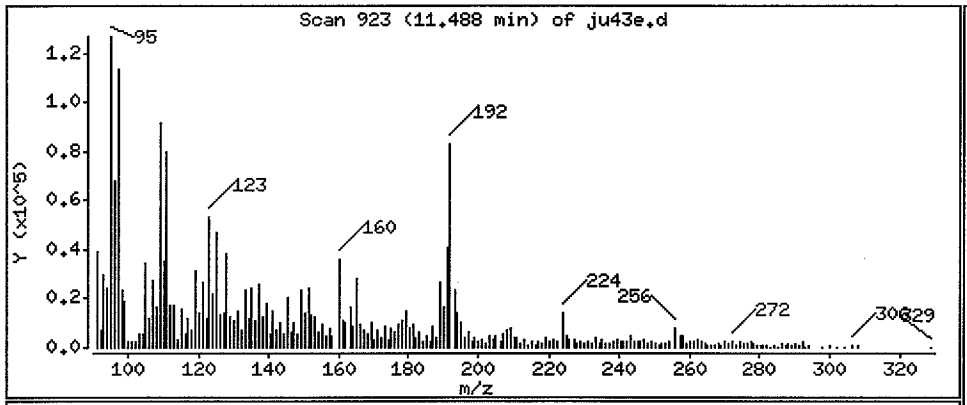
Operator: VTS

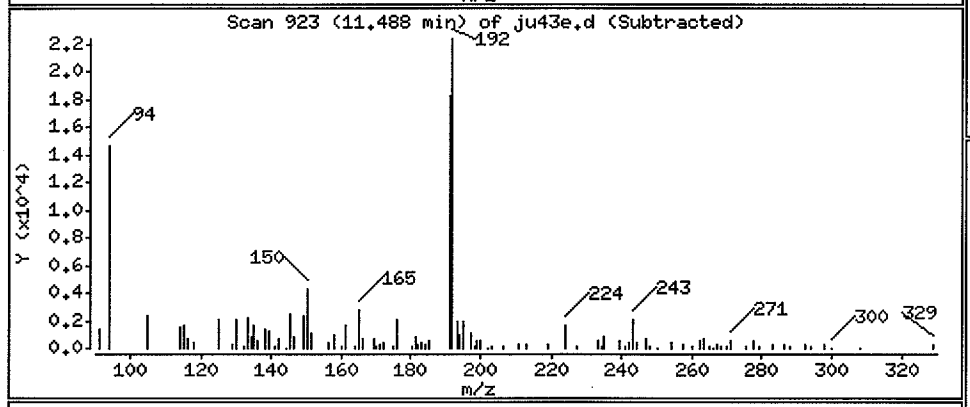
Column phase: ZB-5

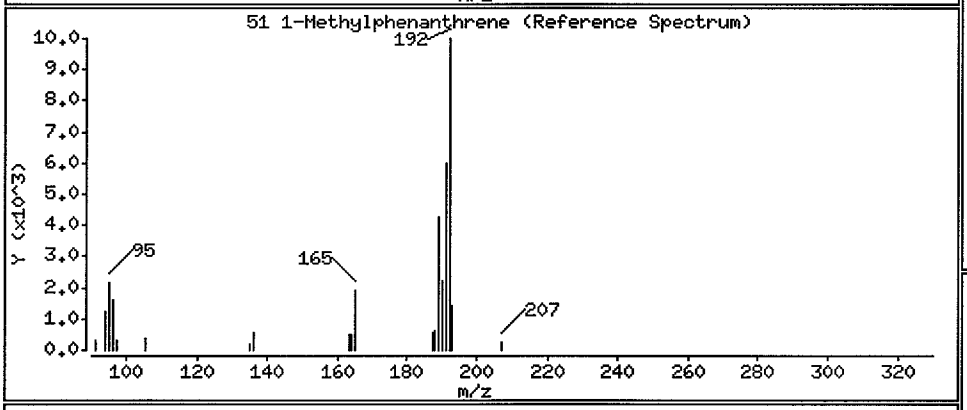
Column diameter: 0.25

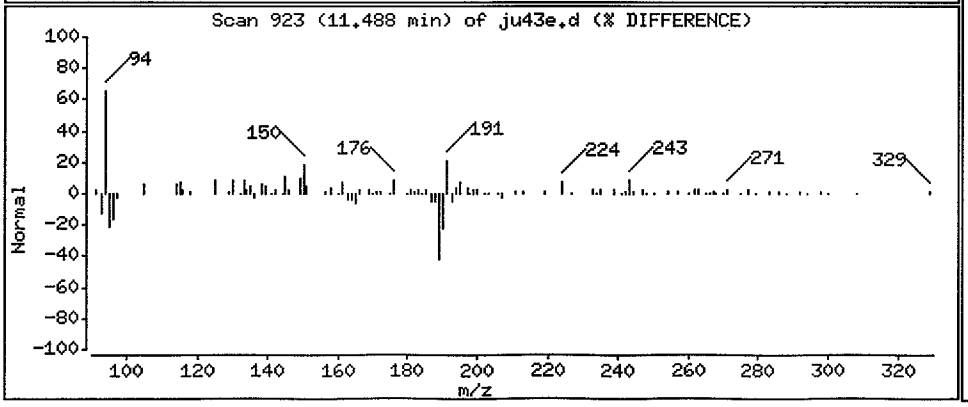
51 1-Methylphenanthrene

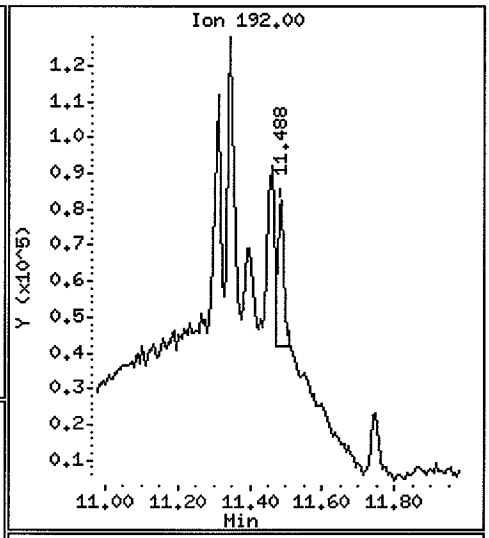
Concentration: 32.70 ug/kg

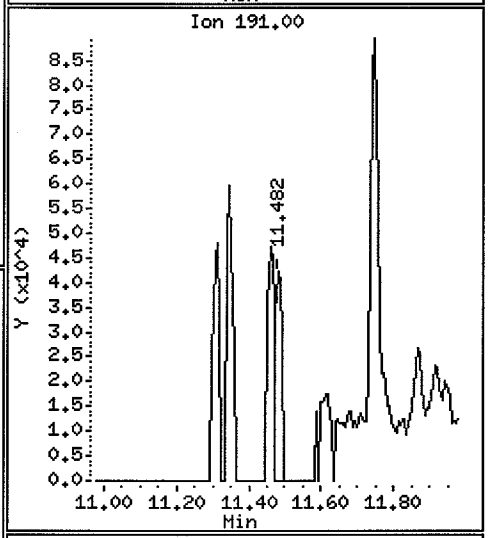


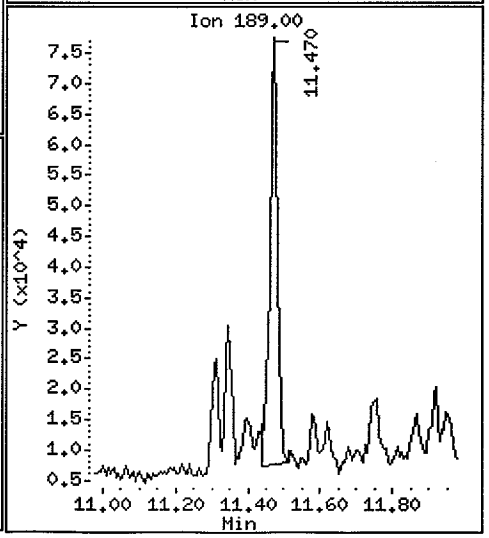












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

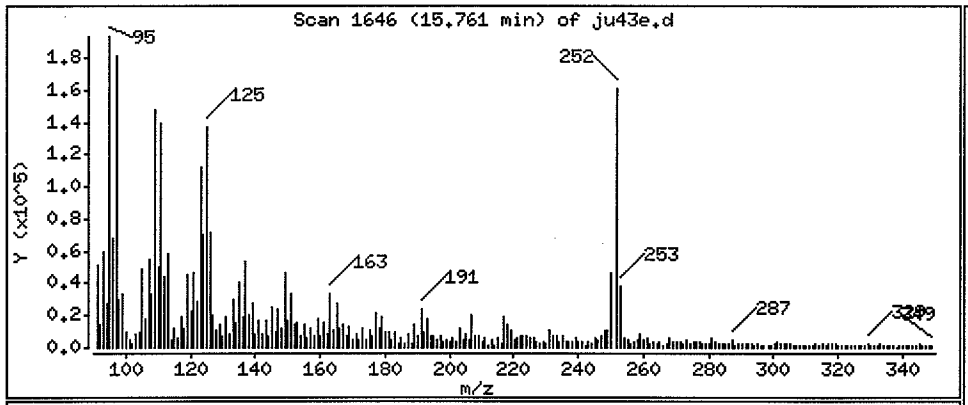
Operator: VTS

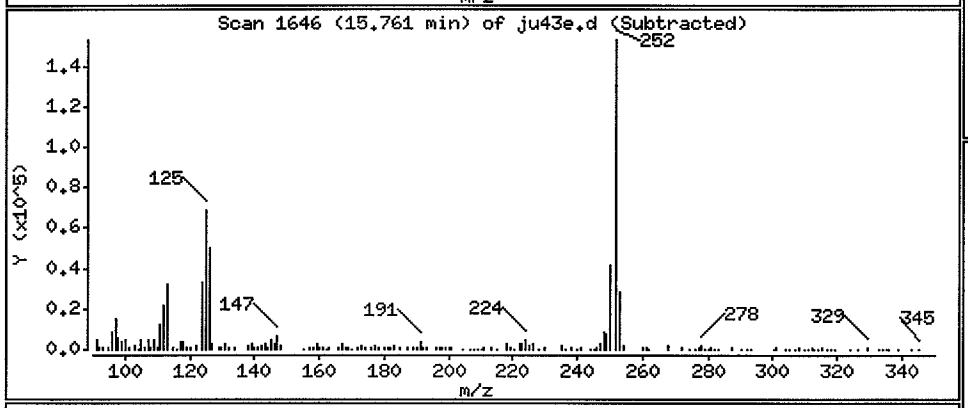
Column phase: ZB-5

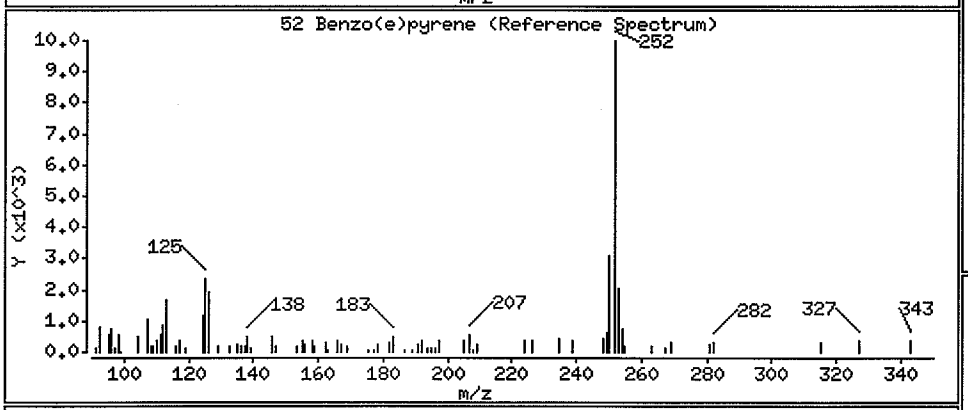
Column diameter: 0.25

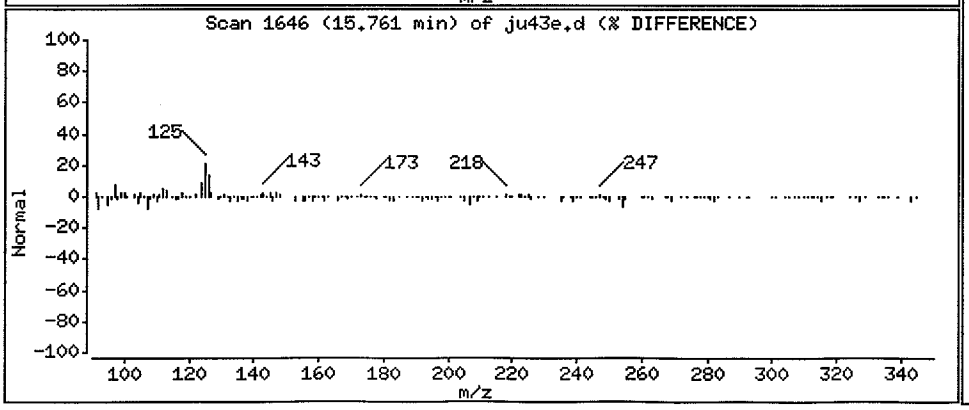
52 Benzo(e)pyrene

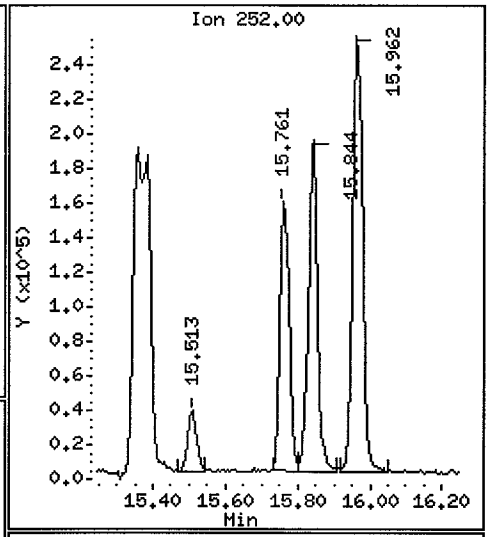
Concentration: 131.9 ug/kg

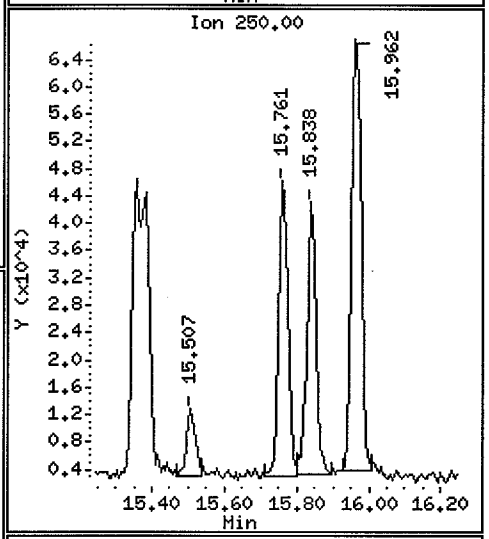


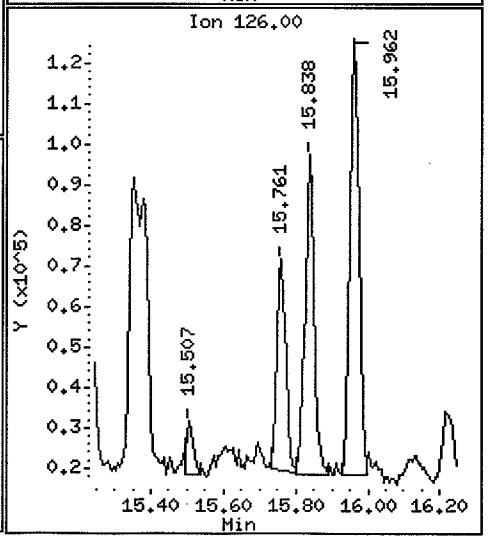












Data File: /chem3/nt1.i/20060912.b/ju43e.d

Date : 12-SEP-2006 15:07

Client ID: T4-B414-02-E

Instrument: nt1.i

Sample Info: JU43E

Volume Injected (uL): 1.0

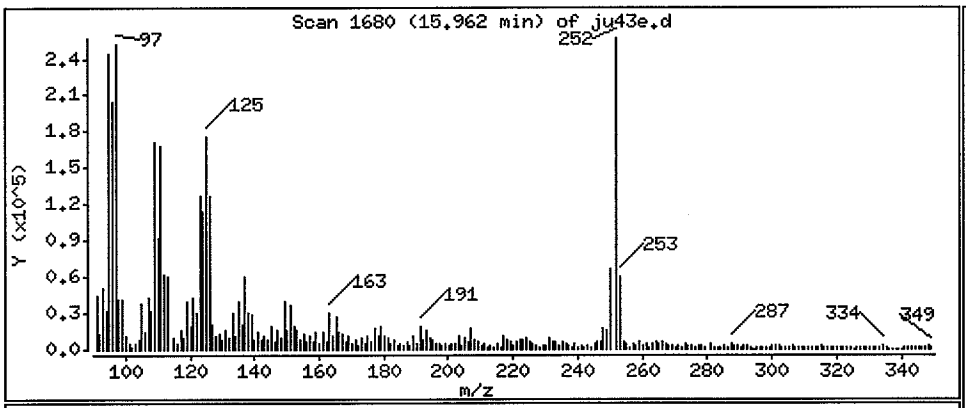
Operator: VTS

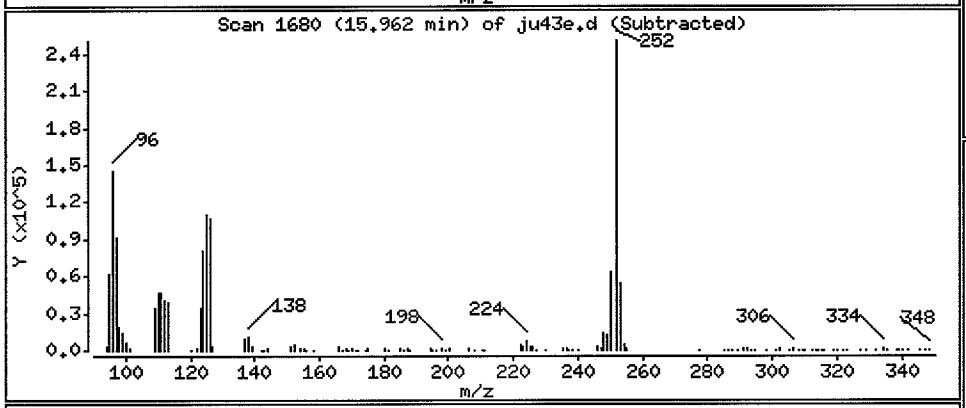
Column phase: ZB-5

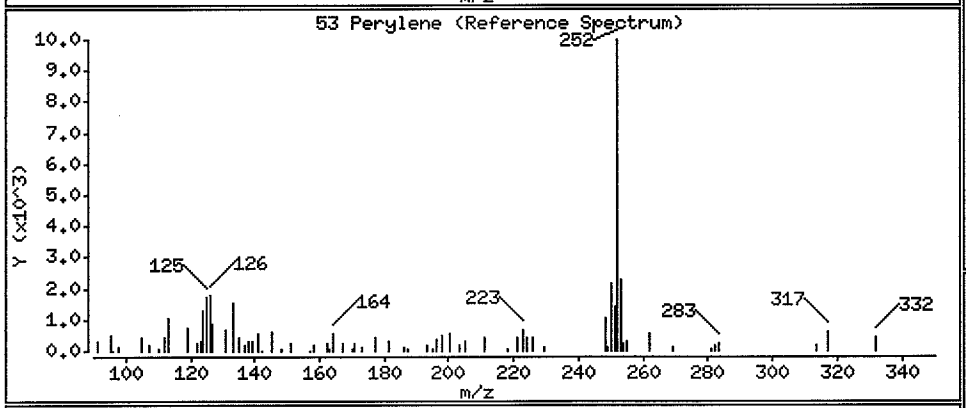
Column diameter: 0.25

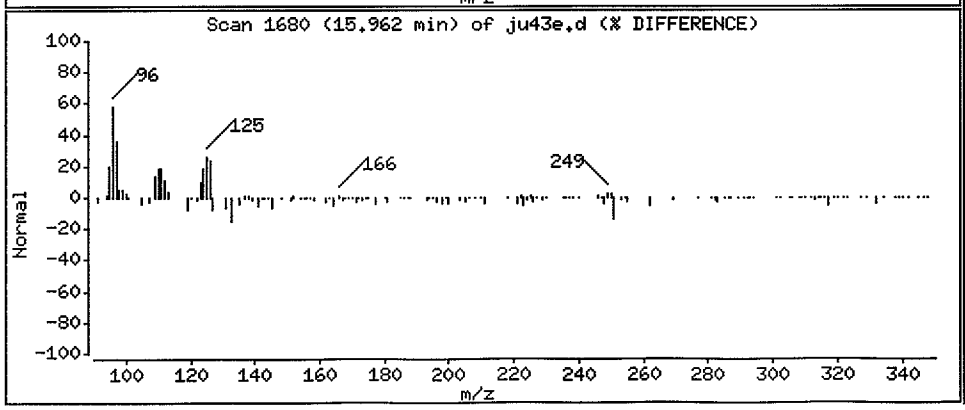
53 Perylene

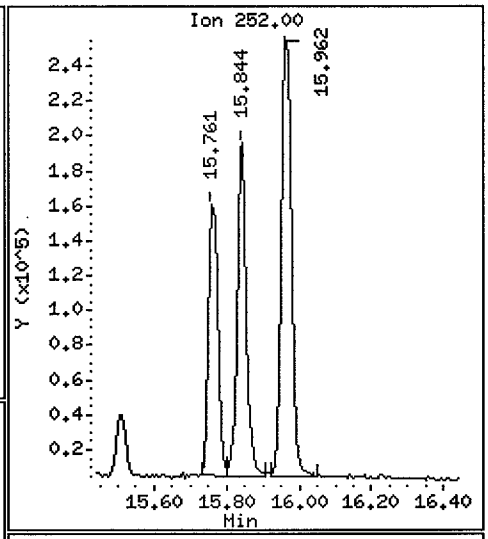
Concentration: 244.6 ug/kg

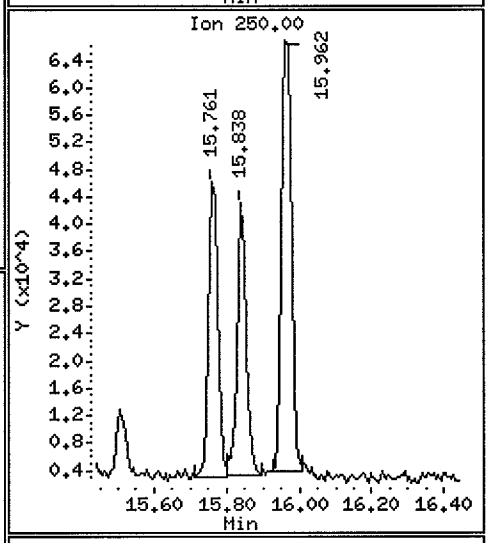


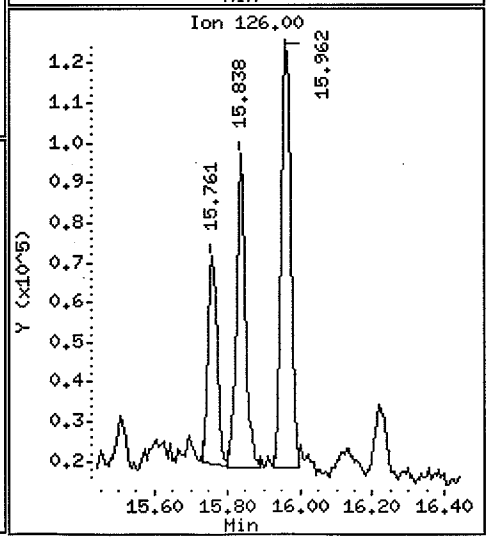












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-02-F**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43F
LIMS ID: 06-15850
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 15:31
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 42.5%
pH: 6.2

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	15	400	
91-57-6	2-Methylnaphthalene	15	230	
90-12-0	1-Methylnaphthalene	15	120	
208-96-8	Acenaphthylene	15	49	
83-32-9	Acenaphthene	15	580	
86-73-7	Fluorene	15	430	
85-01-8	Phenanthrene	15	1,400	
120-12-7	Anthracene	15	240	
206-44-0	Fluoranthene	15	1,600	E
129-00-0	Pyrene	15	1,400	
56-55-3	Benzo(a)anthracene	15	500	
218-01-9	Chrysene	15	710	
205-99-2	Benzo(b)fluoranthene	15	460	
207-08-9	Benzo(k)fluoranthene	15	390	
50-32-8	Benzo(a)pyrene	15	430	
193-39-5	Indeno(1,2,3-cd)pyrene	15	200	
53-70-3	Dibenz(a,h)anthracene	15	48	
191-24-2	Benzo(g,h,i)perylene	15	230	
198-55-0	Perylene	15	270	
92-52-4	Biphenyl	15	36	
581-42-0	2,6-Dimethylnaphthalene	15	160	
832-69-9	1-Methylphenanthrene	15	150	
192-97-2	Benzo(e)pyrene	15	310	
2245-38-7	2,3,5-Trimethylnaphthalene	15	110	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	88.7%
d14-Dibenzo(a,h)anthracen	69.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43f.d
Lab Smp Id: JU43F Client Smp ID: T4-B414-02-F
Inj Date : 12-SEP-2006 15:31
Operator : VTS Inst ID: nt1.i
Smp Info : JU43F,3
Misc Info : 06-15850
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 4
Dil Factor: 3.00000
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	3.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	17.60000	Weight of sample extracted (g)
M	42.50000	% 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	6.813	6.808	(1.000)	353433	2.00000		
2 Naphthalene	128	6.837	6.832	(1.003)	463337	2.72868	404.4	
$ 3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	77717	0.88678	131.4	
4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	140245	1.55400	230.3	
5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	76191	0.77799	115.3	
7 Acenaphthylene	152	8.692	8.687	(0.980)	48030	0.33152	49.14	
* 8 Acenaphthene-d10	164	8.870	8.871	(1.000)	176347	2.00000		
9 Acenaphthene	153	8.911	8.906	(1.005)	344603	3.93819	583.7	
10 Dibenzofuran	168	9.100	9.095	(1.026)	202006	~~1.62439~~	240.8	NR
11 Fluorene	166	9.520	9.521	(1.073)	277294	2.92082	432.9	
* 15 Phenanthrene-d10	188	10.684	10.679	(1.000)	226575	2.00000		
16 Phenanthrene	178	10.714	10.709	(1.003)	1178988	9.59941	1423	
17 Anthracene	178	10.767	10.762	(1.008)	203014	1.63893	242.9	
19 Fluoranthene	202	12.203	12.198	(1.142)	1127328	10.7533	1594	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.493	12.488	(0.893)	1169673	9.75478	1446
	22 Benzo(a)anthracene	228	13.976	13.965	(0.999)	345159	3.37916	500.9
*	23 Chrysene-d12	240	13.994	13.989	(1.000)	170371	2.00000	
	24 Chrysene	228	14.023	14.018	(1.002)	461807	4.81127	713.1
	28 Benzo(b)fluoranthene	252	15.353	15.336	(0.965)	298750	3.07090	455.2
	29 Benzo(k)fluoranthene	252	15.377	15.366	(0.966)	266382	2.62180	388.6(M)
	30 Benzo(a)pyrene	252	15.838	15.821	(0.995)	255743	2.91461	432.0
*	31 Perylene-d12	264	15.915	15.898	(1.000)	171795	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.835	17.813	(1.121)	126786	1.34596	199.5
$	32 Dibenz(a,h)anthrancene-d14	292	17.759	17.736	(1.116)	39241	0.69704	103.3
	34 Dibenz(a,h)anthracene	278	17.824	17.807	(1.120)	24469	0.32050	47.51
	35 Benzo(g,h,i)perylene	276	18.403	18.380	(1.156)	130485	1.56742	232.3
	48 Biphenyl	154	8.143	8.138	(0.918)	26526	0.24257	35.95
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	87177	1.05533	156.4
	50 2,3,5-Trimethylnaphthalene	170	9.354	9.355	(1.055)	49117	0.75270	111.6
	51 1-Methylphenanthrene	192	11.482	11.477	(0.820)	82870	1.03053	152.7
	52 Benzo(e)pyrene	252	15.755	15.744	(0.990)	202912	2.07577	307.7
	53 Perylene	252	15.956	15.939	(1.003)	165148	1.81057	268.4

QC Flag Legend

M - Compound response manually integrated.

VTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43f.d
Lab Smp Id: JU43F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15850

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-02-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	353433	3.48
8 Acenaphthene-d10	169375	84688	338750	176347	4.12
15 Phenanthrene-d10	232185	116092	464370	226575	-2.42
23 Chrysene-d12	179856	89928	359712	170371	-5.27
31 Perylene-d12	175373	87686	350746	171795	-2.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.07
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.04
31 Perylene-d12	15.90	15.40	16.40	15.91	0.11

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

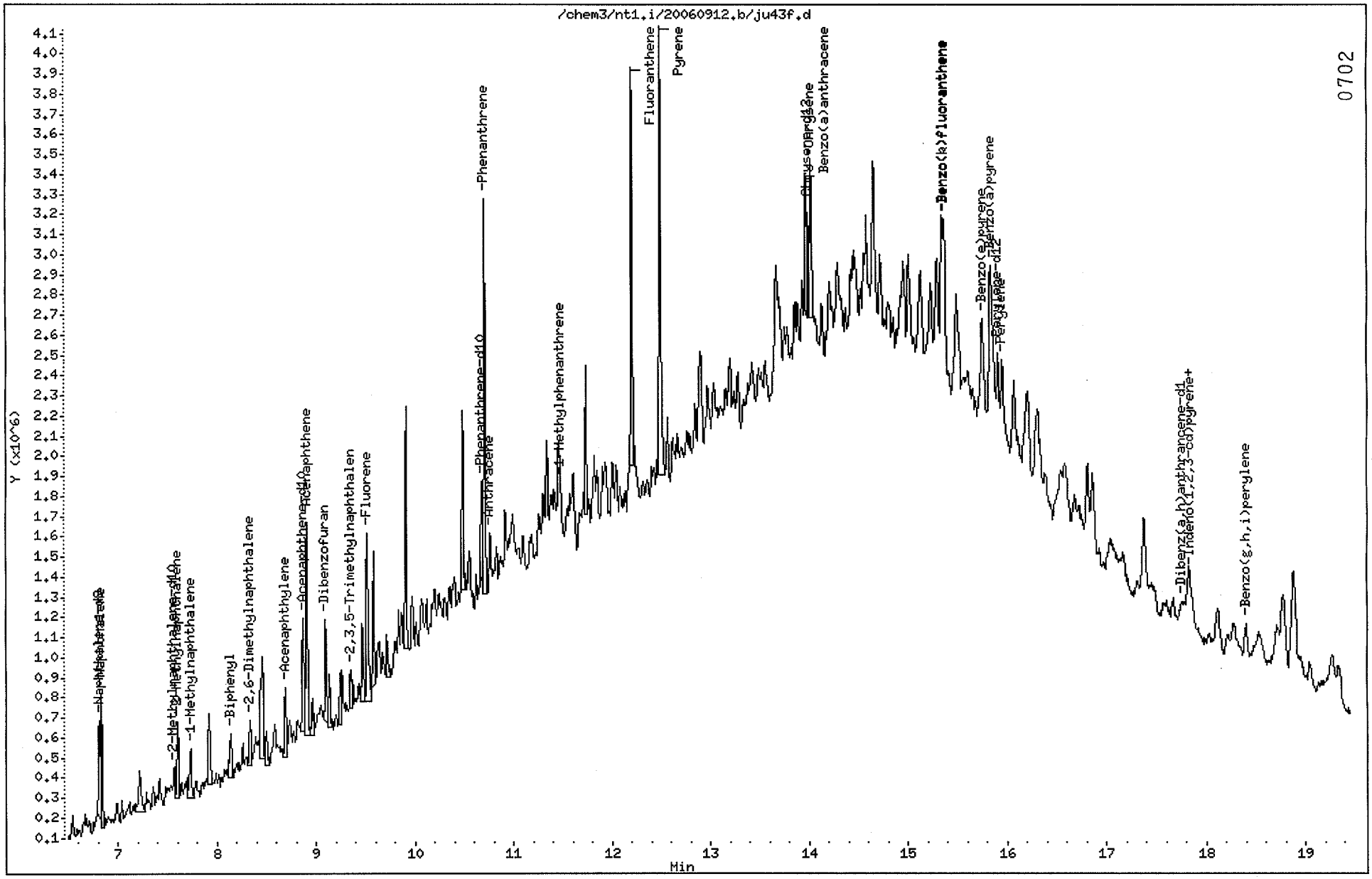
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43F
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15850

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-02-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.2	131.4	88.68	32-97
$ 32 Dibenz(a,h)anthran	148.2	103.3	69.70	21-105

Data File: /chem3/nt1.i/20060912.b/ju43f.d
Date : 12-SEP-2006 15:31
Client ID: T4-B414-02-F
Sample Info: JU43F,3
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

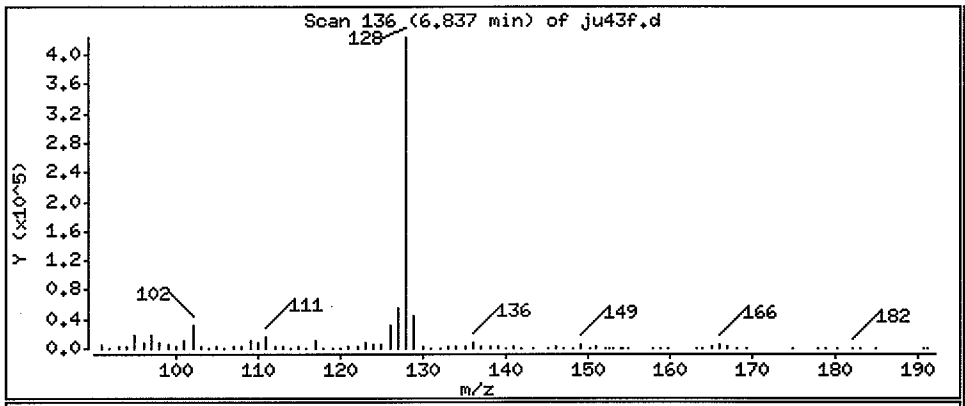
Operator: VTS

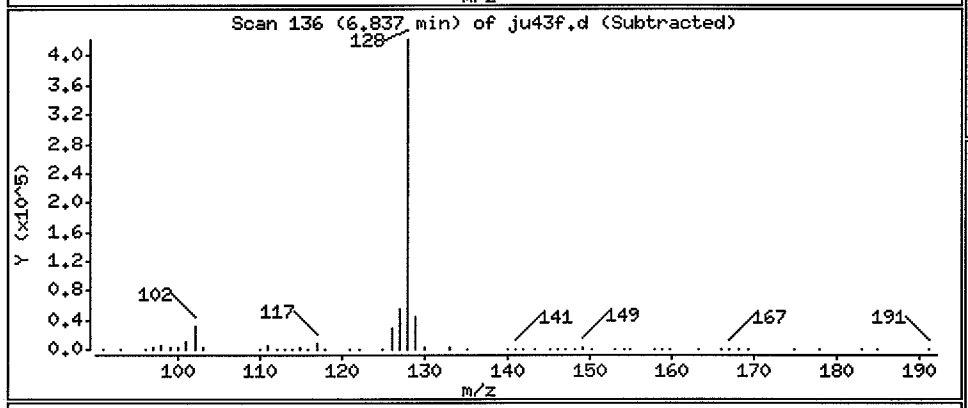
Column phase: ZB-5

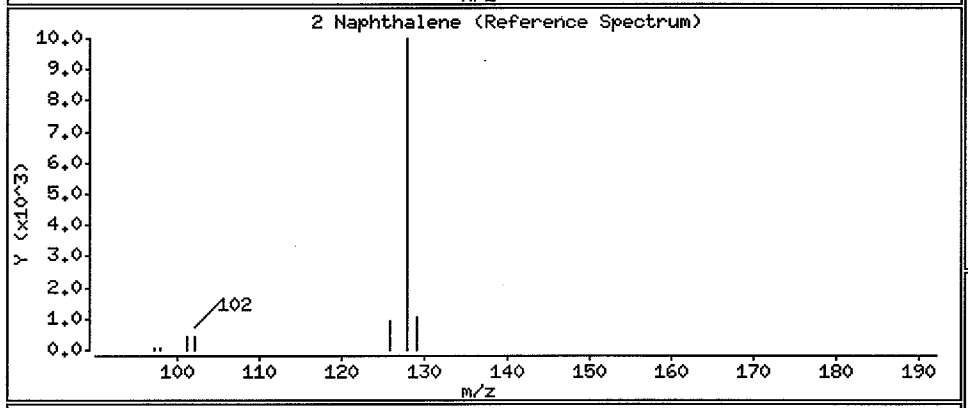
Column diameter: 0.25

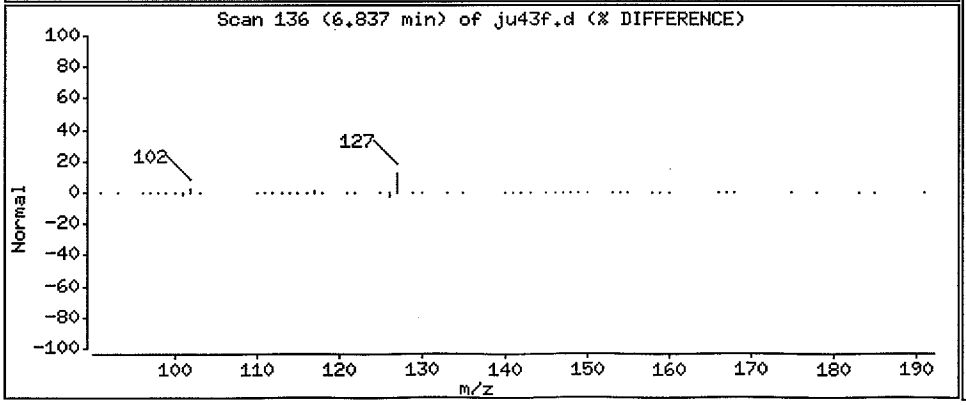
2 Naphthalene

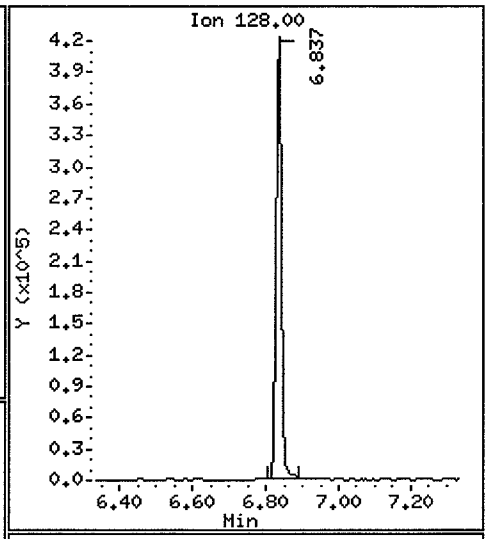
Concentration: 404.4 ug/kg

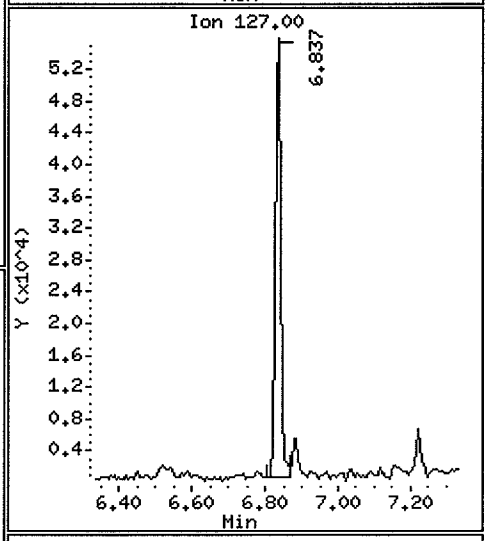


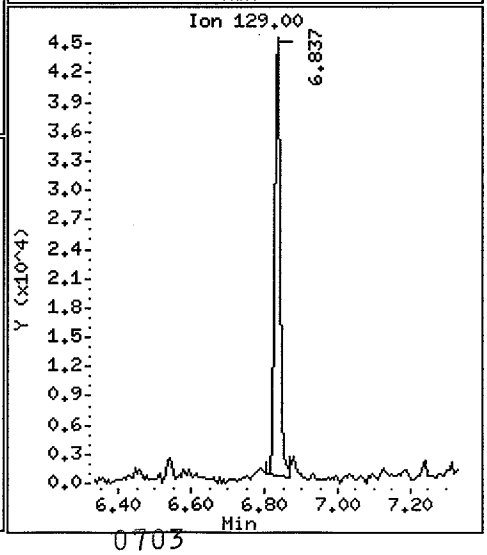












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

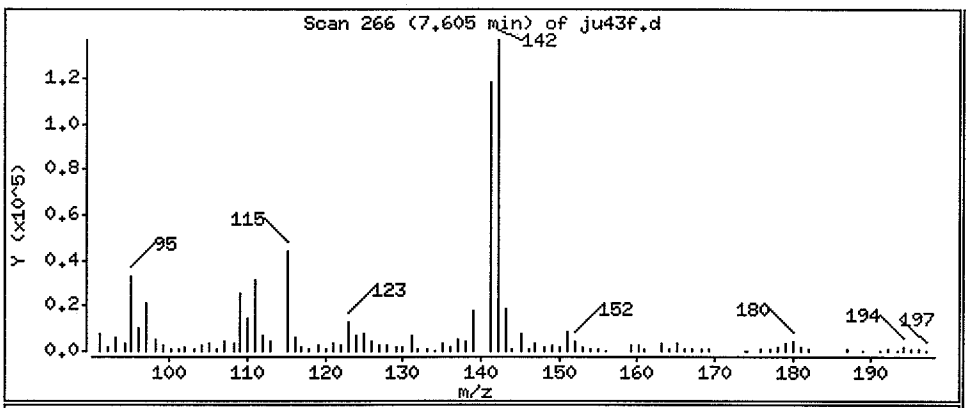
Operator: VTS

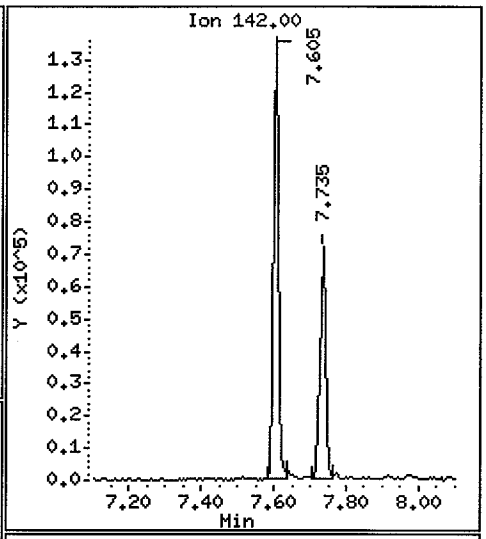
Column phase: ZB-5

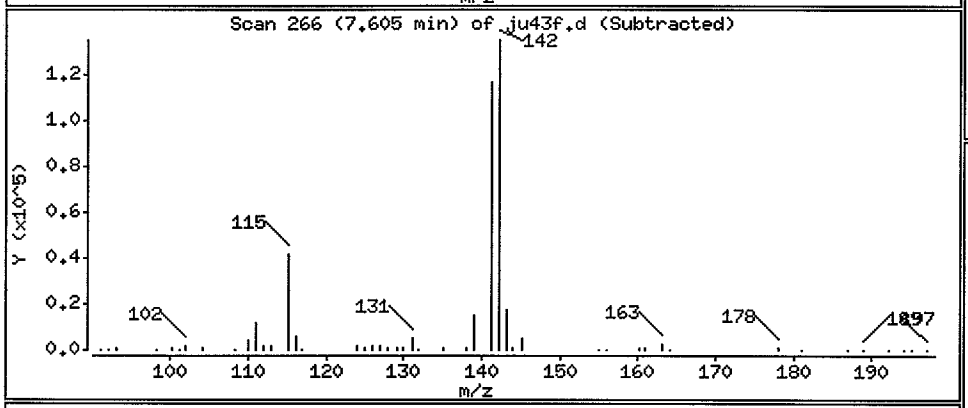
Column diameter: 0.25

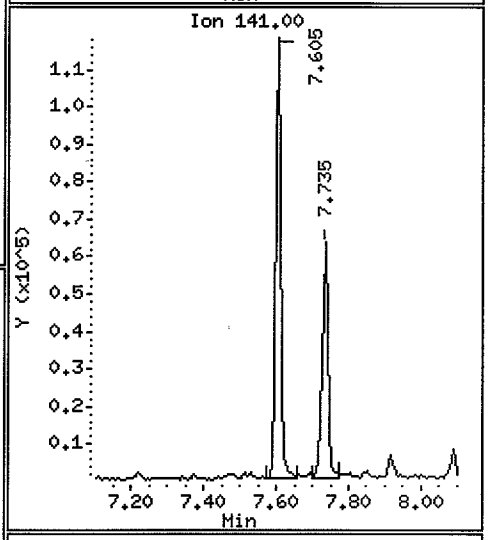
4 2-Methylnaphthalene

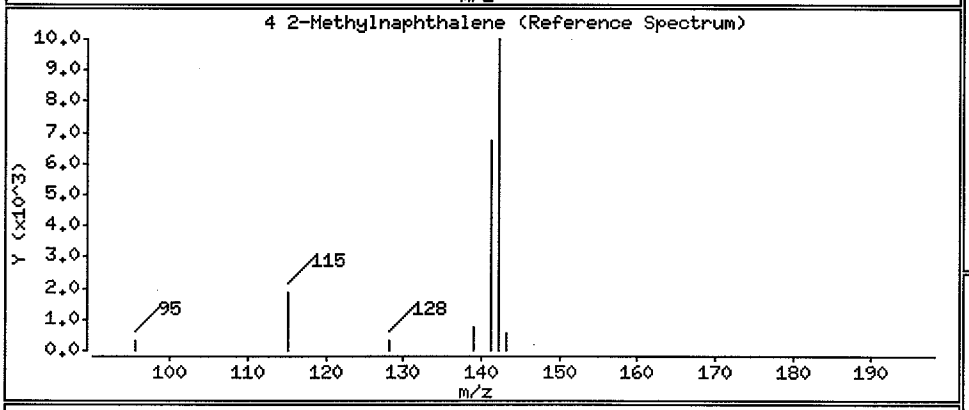
Concentration: 230.3 ug/kg

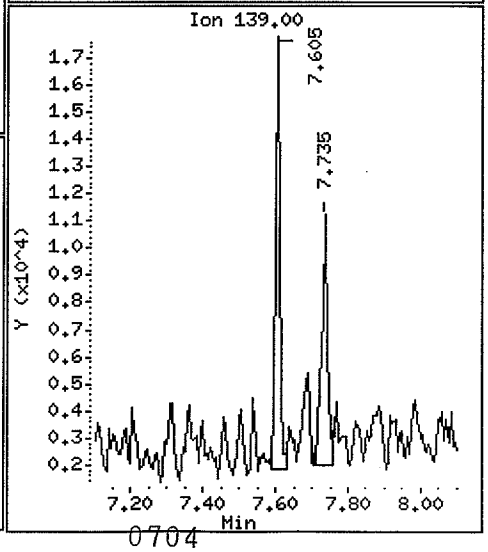


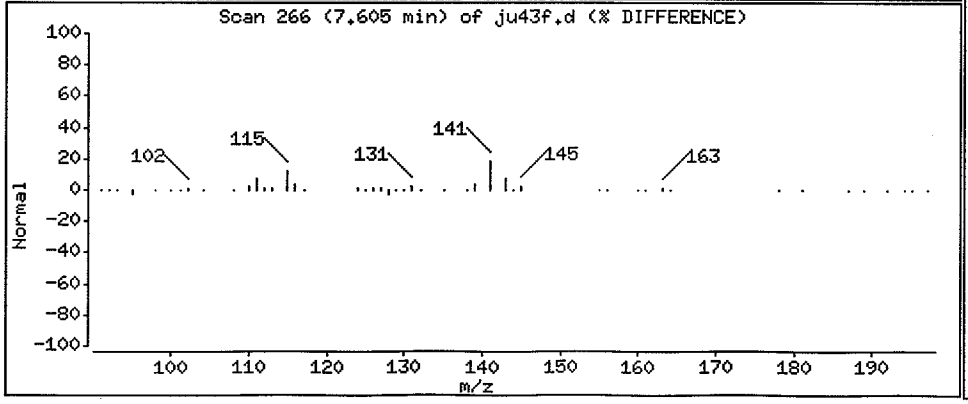












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

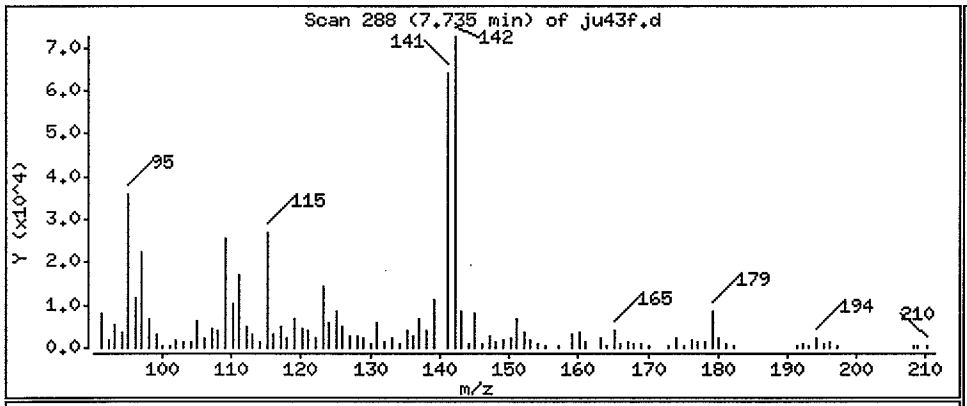
Operator: VTS

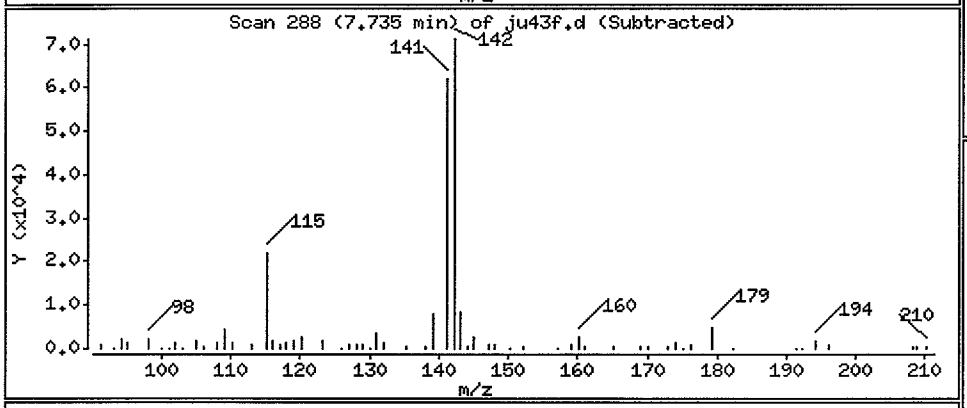
Column phase: ZB-5

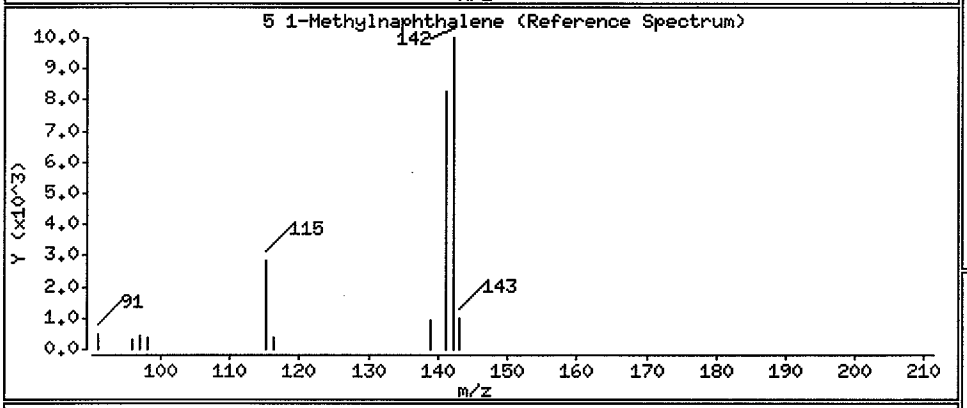
Column diameter: 0.25

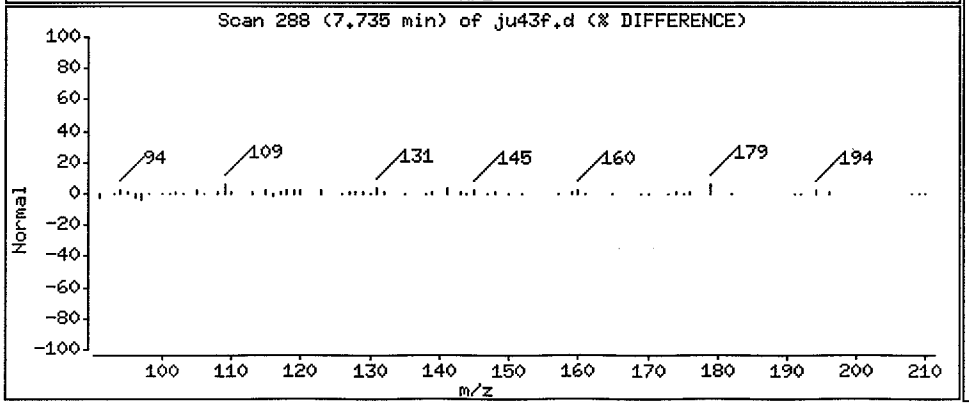
5 1-Methylnaphthalene

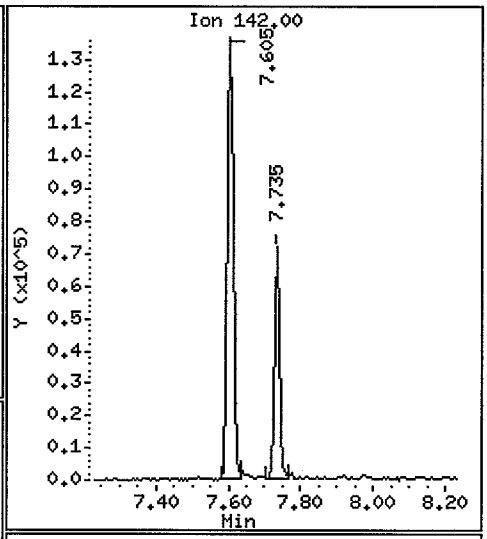
Concentration: 115.3 ug/kg

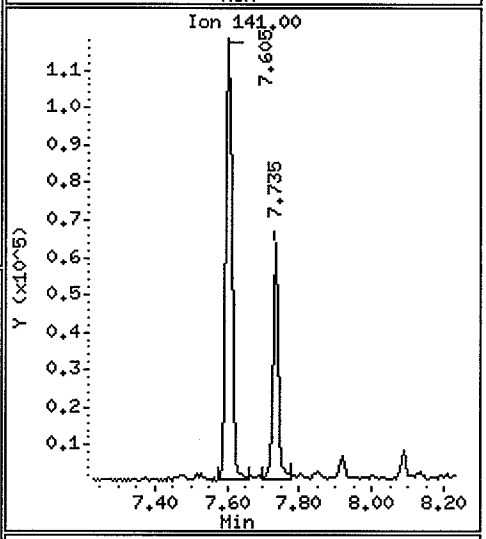


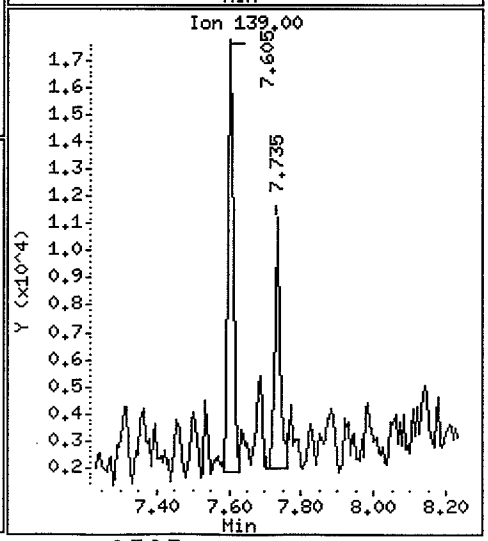












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

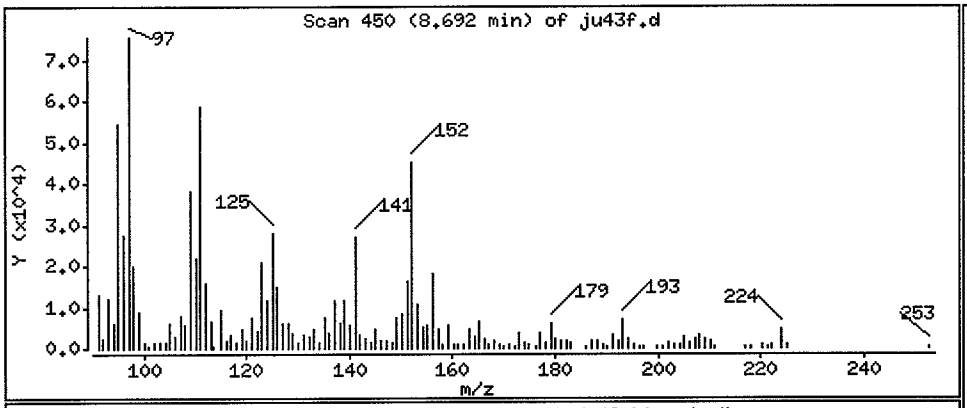
Operator: VTS

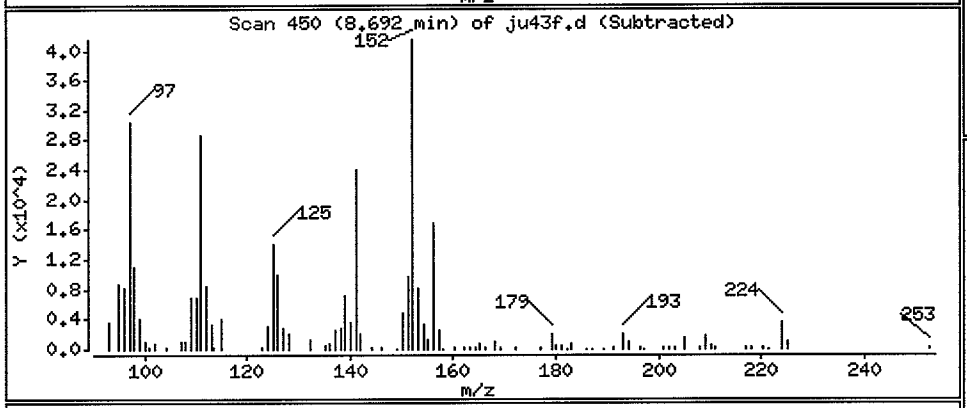
Column phase: ZB-5

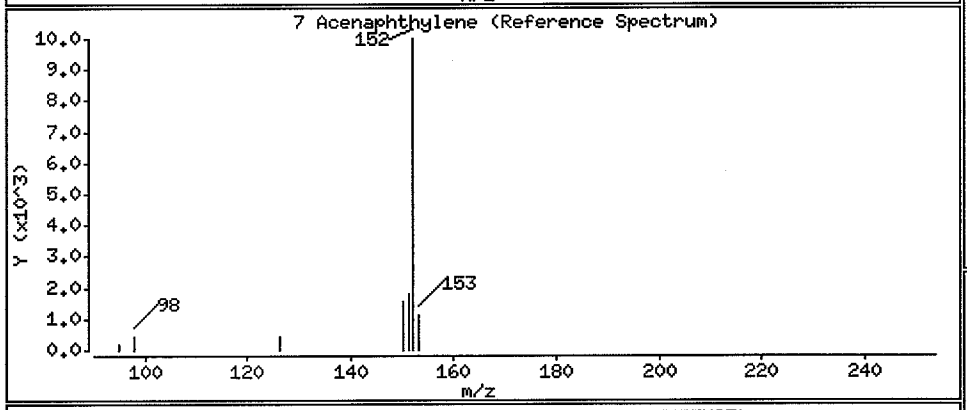
Column diameter: 0.25

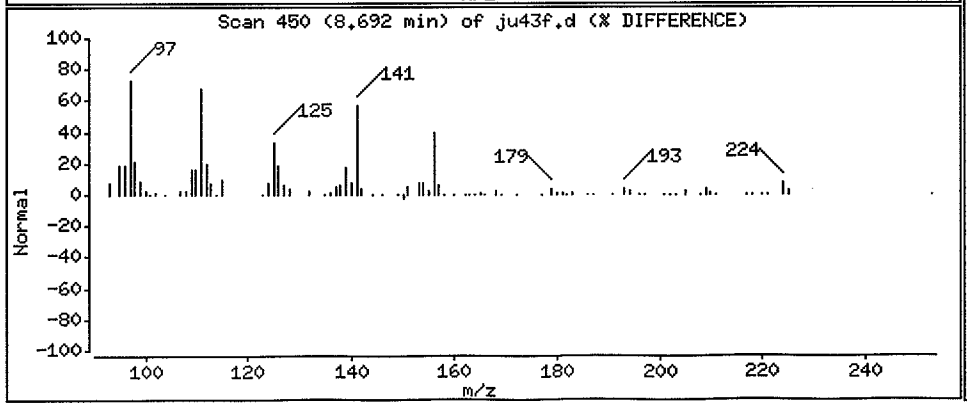
7 Acenaphthylene

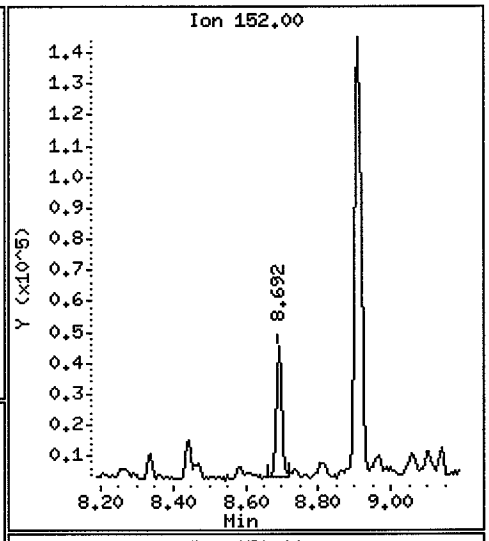
Concentration: 49.14 ug/kg

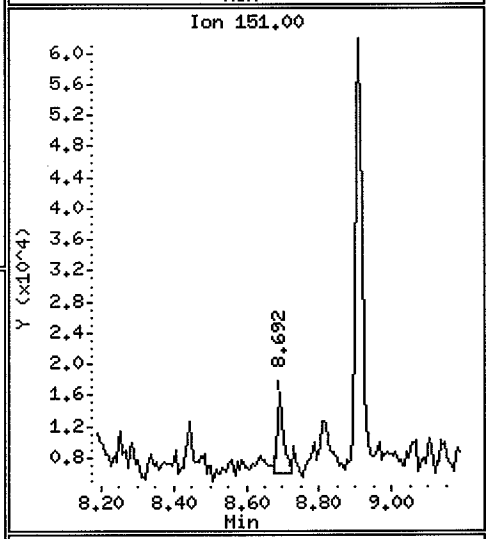


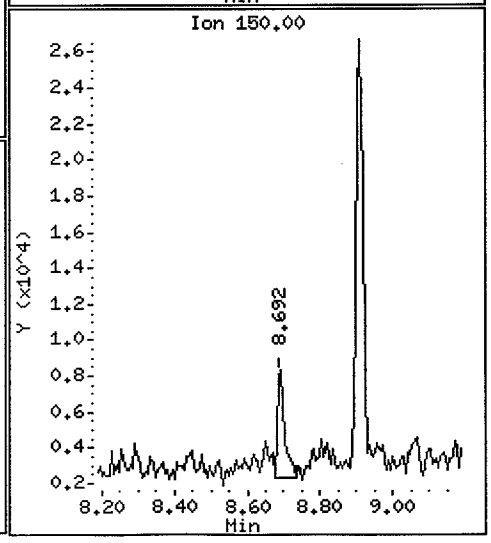












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

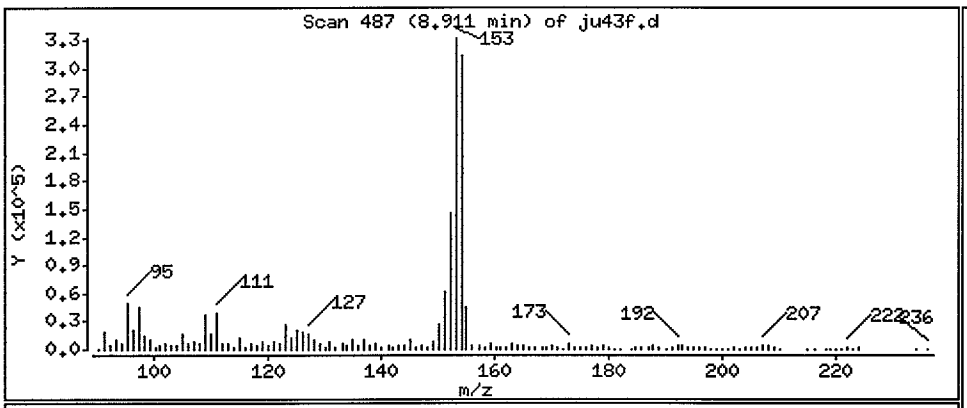
Operator: VTS

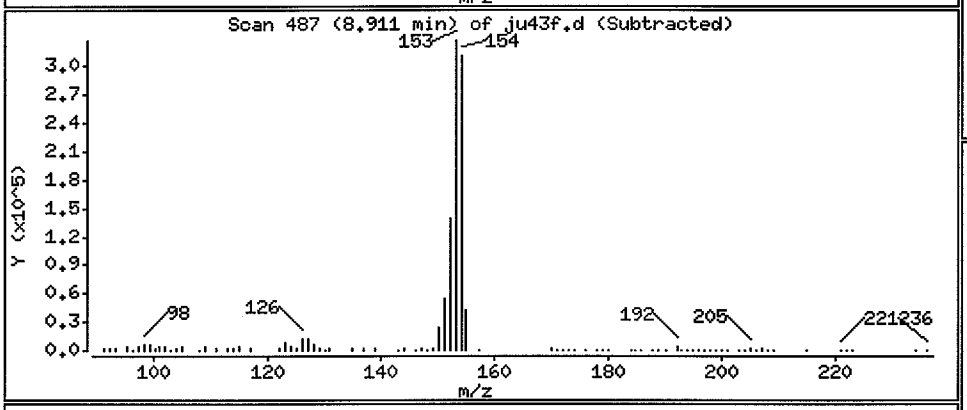
Column phase: ZB-5

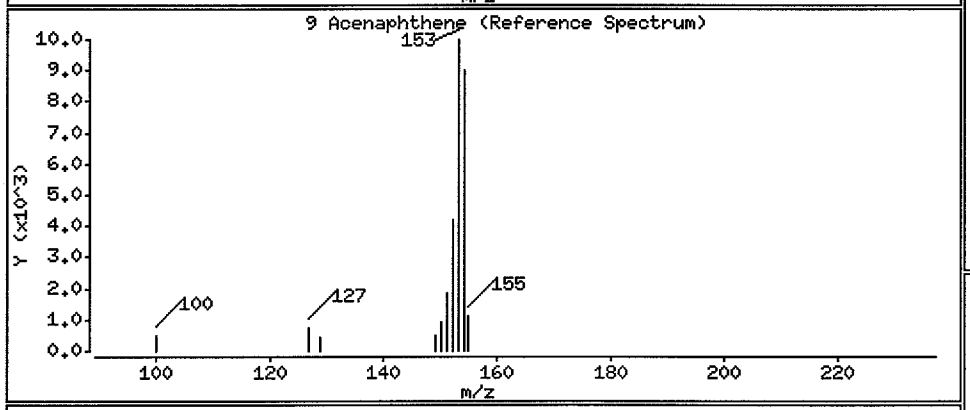
Column diameter: 0.25

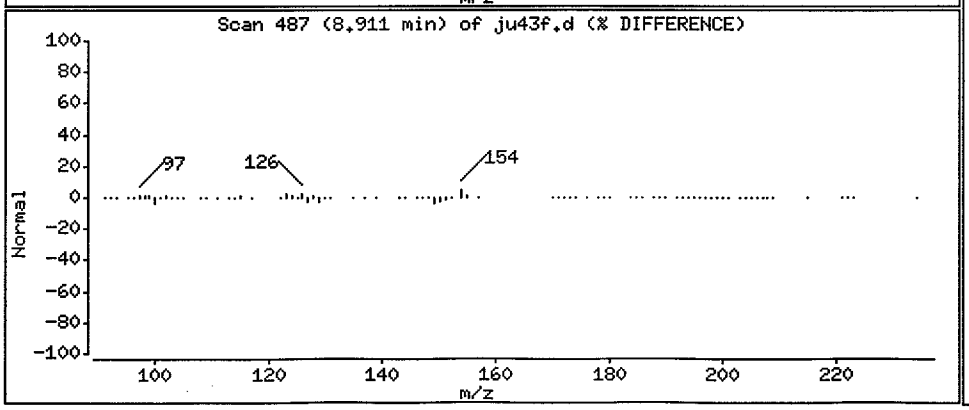
9 Acenaphthene

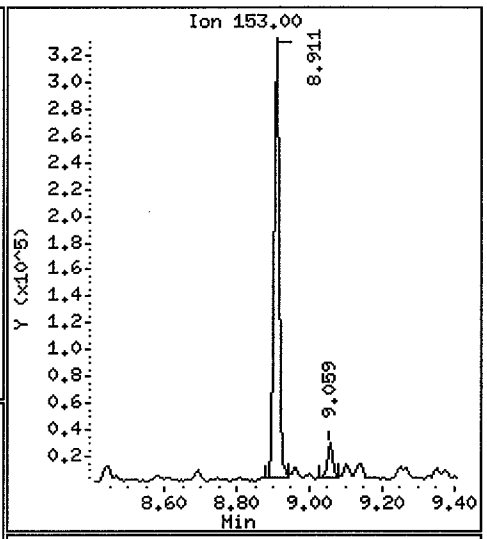
Concentration: 583.7 ug/kg

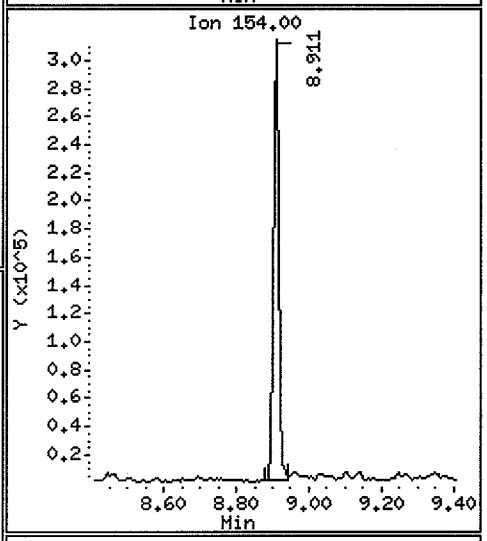


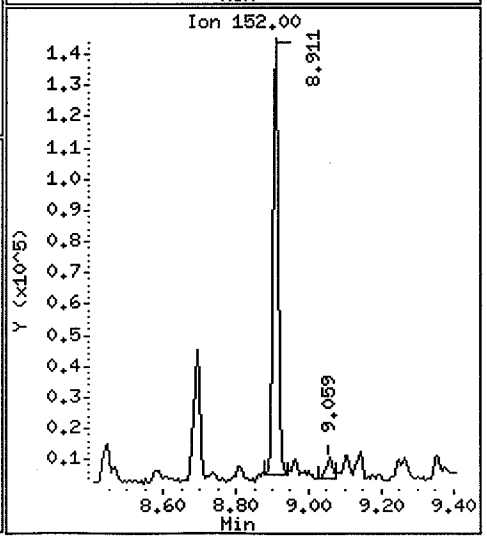












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

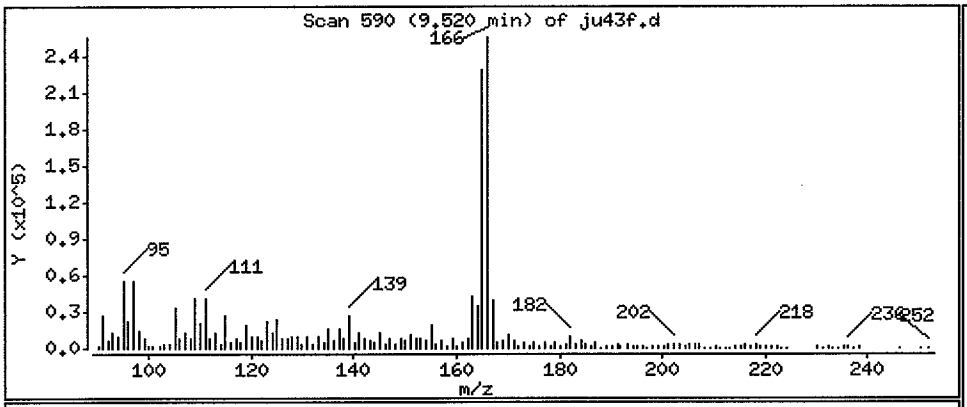
Operator: VTS

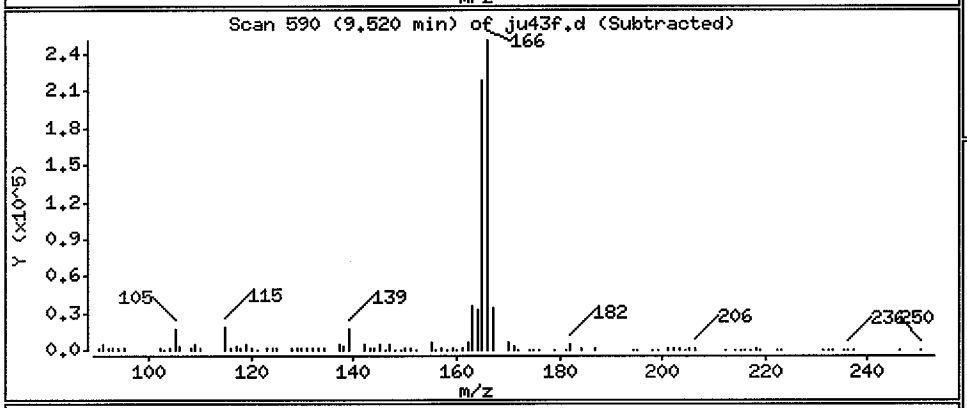
Column phase: ZB-5

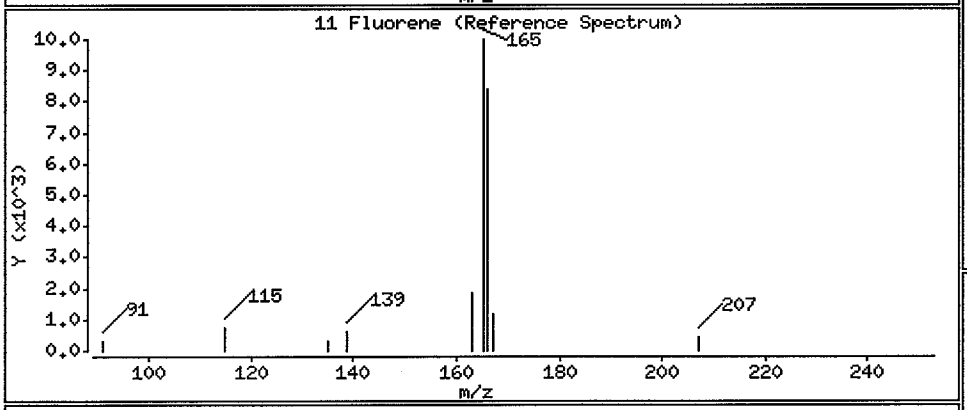
Column diameter: 0.25

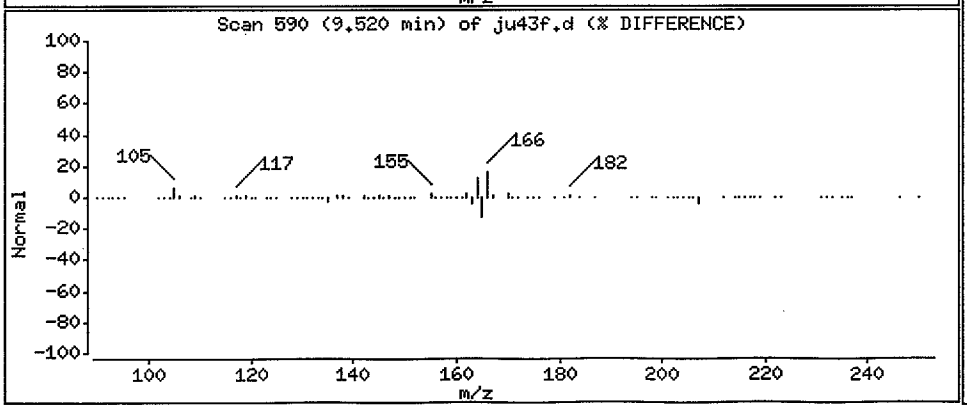
11 Fluorene

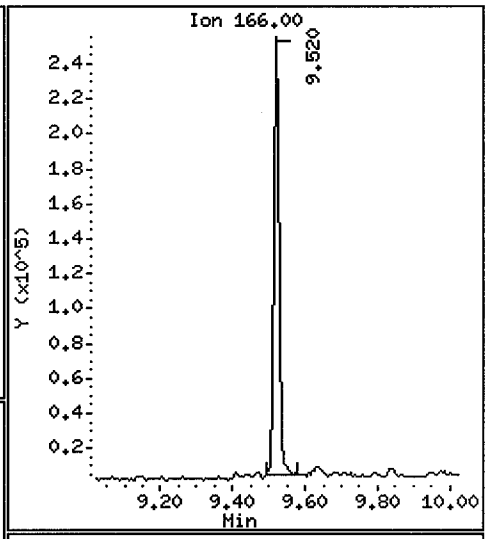
Concentration: 432.9 ug/kg

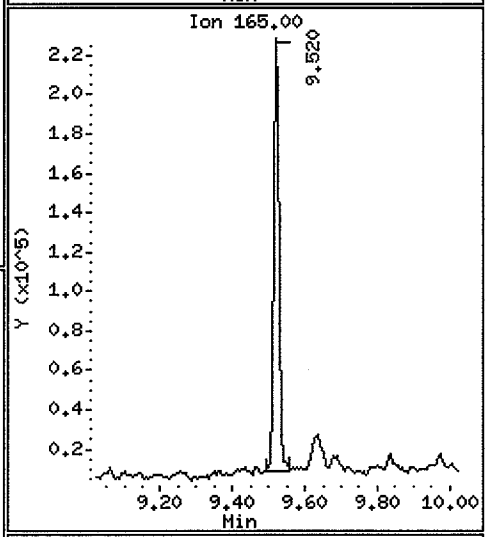


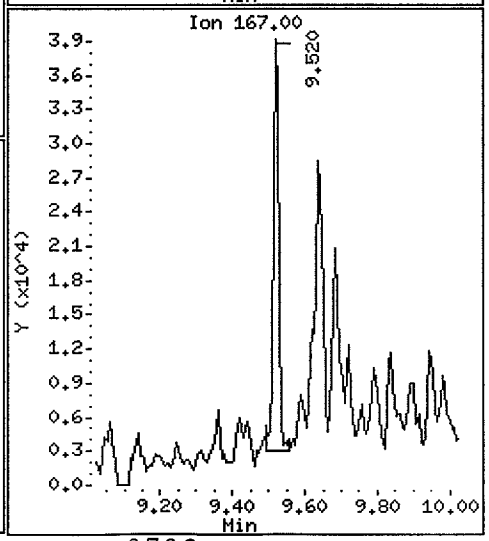












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

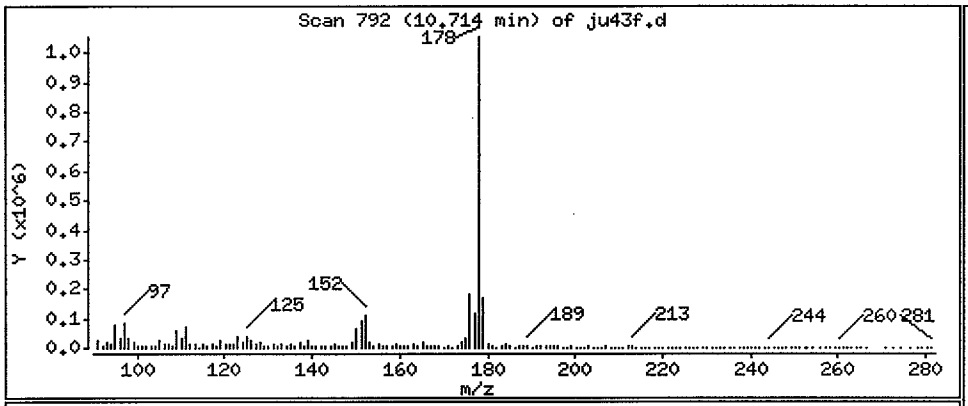
Operator: VTS

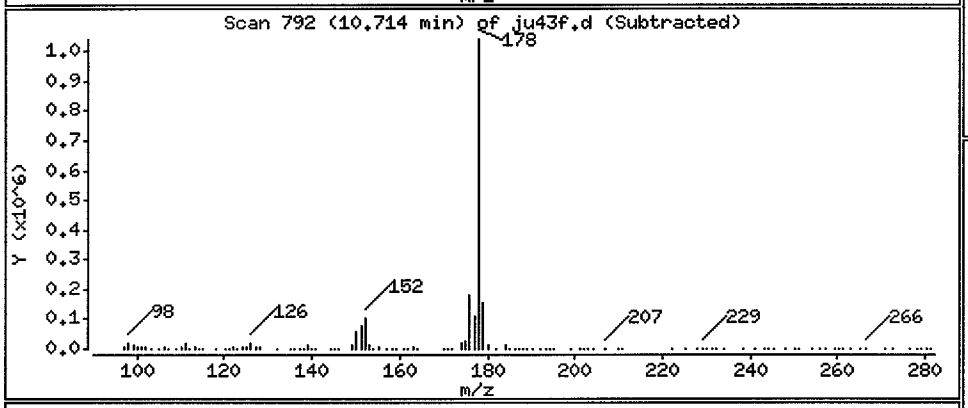
Column phase: ZB-5

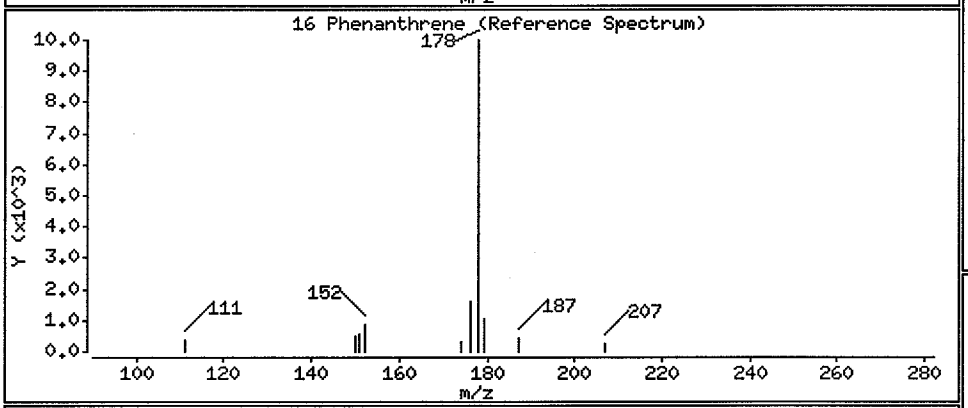
Column diameter: 0.25

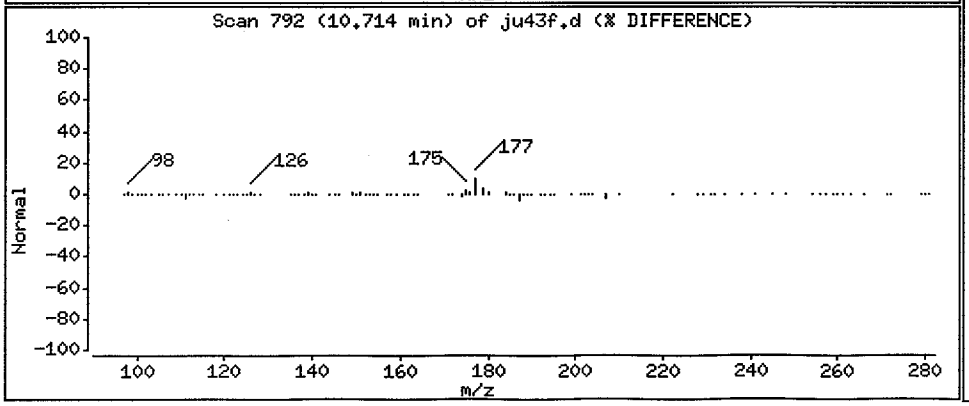
16 Phenanthrene

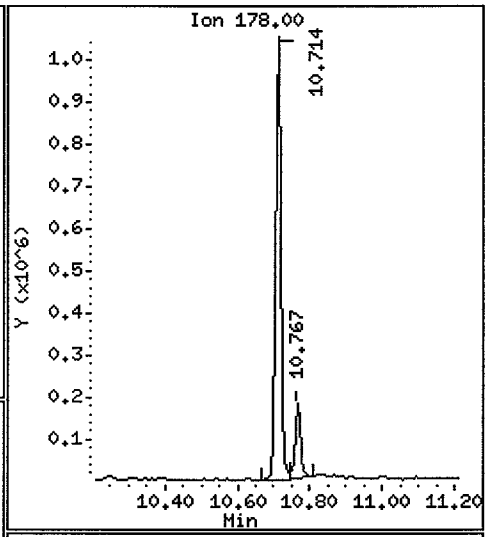
Concentration: 1423 ug/kg

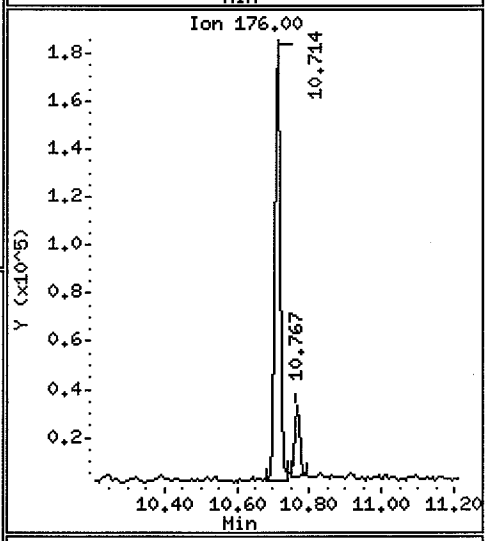


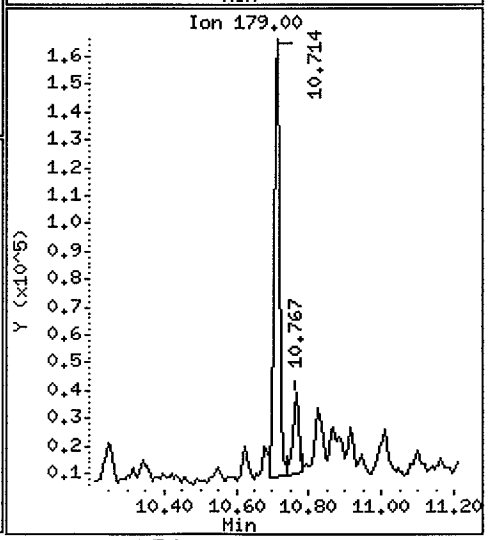












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

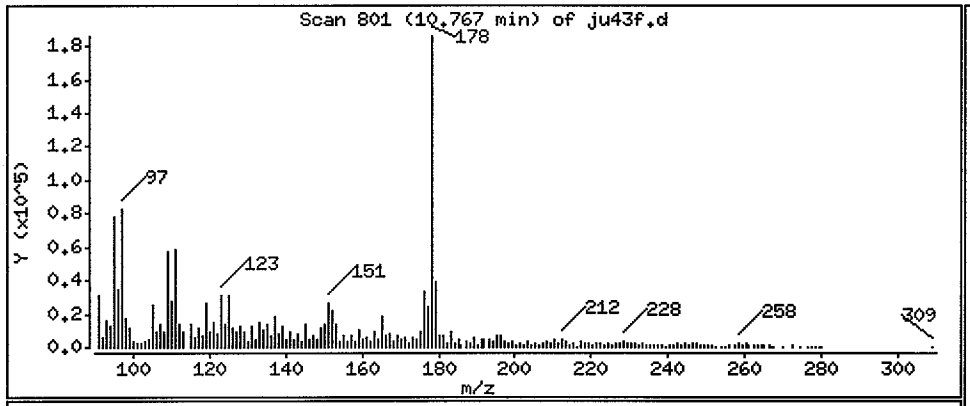
Operator: VTS

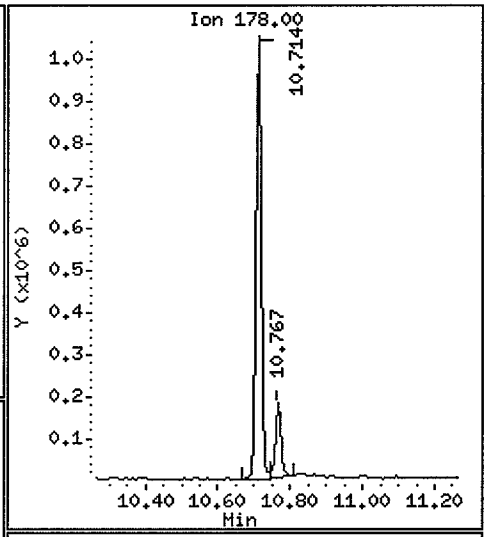
Column phase: ZB-5

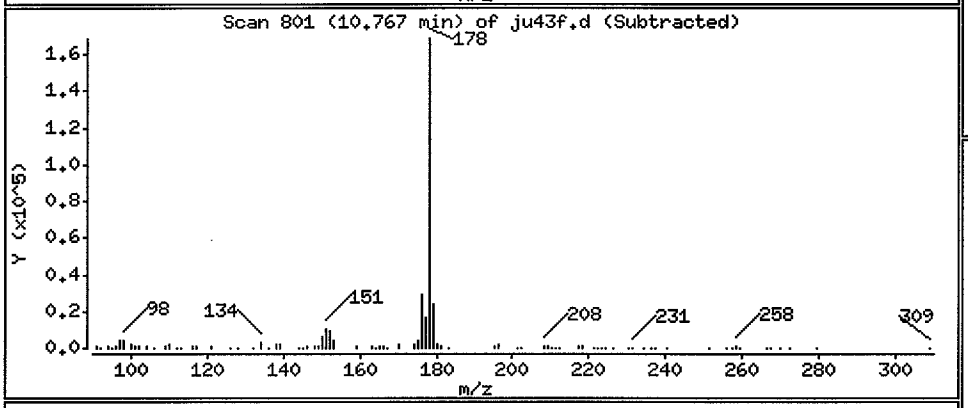
Column diameter: 0.25

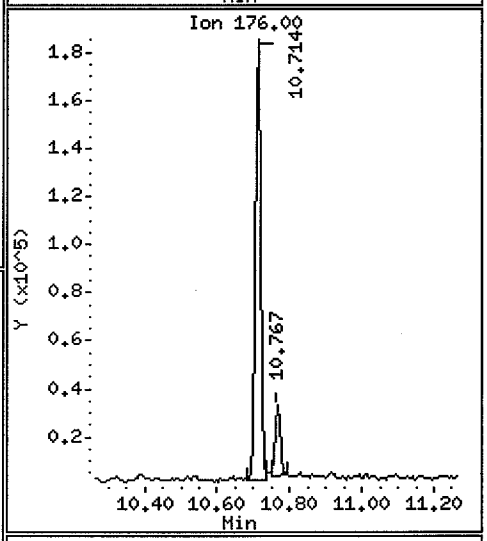
17 Anthracene

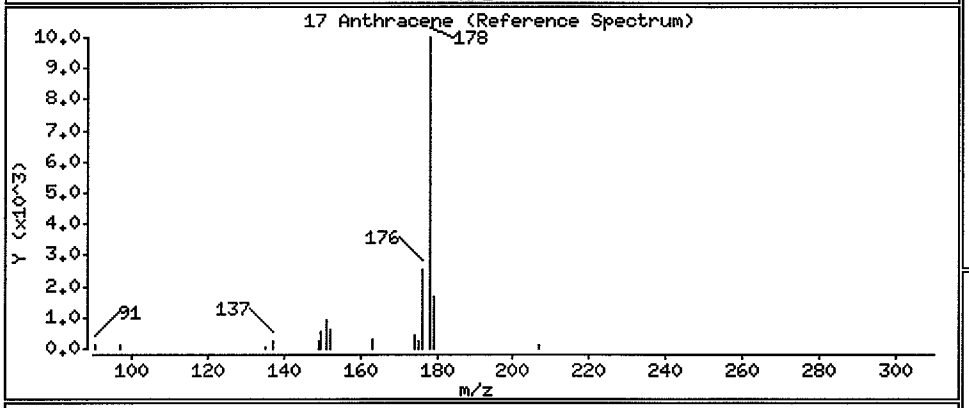
Concentration: 242.9 ug/kg

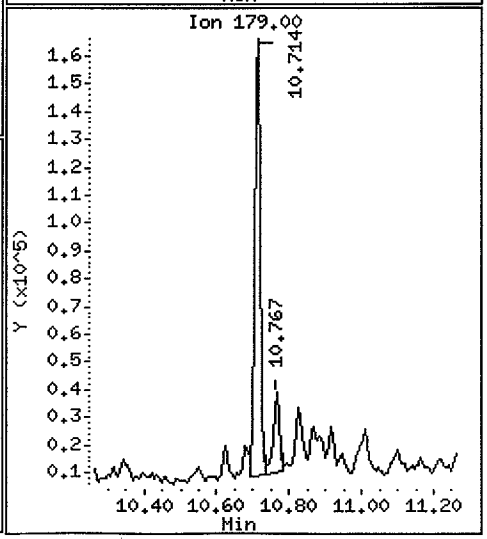


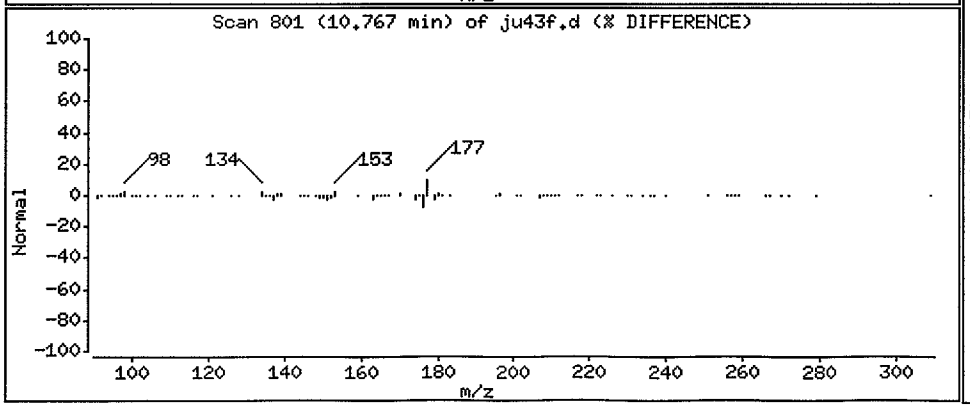












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

Operator: VTS

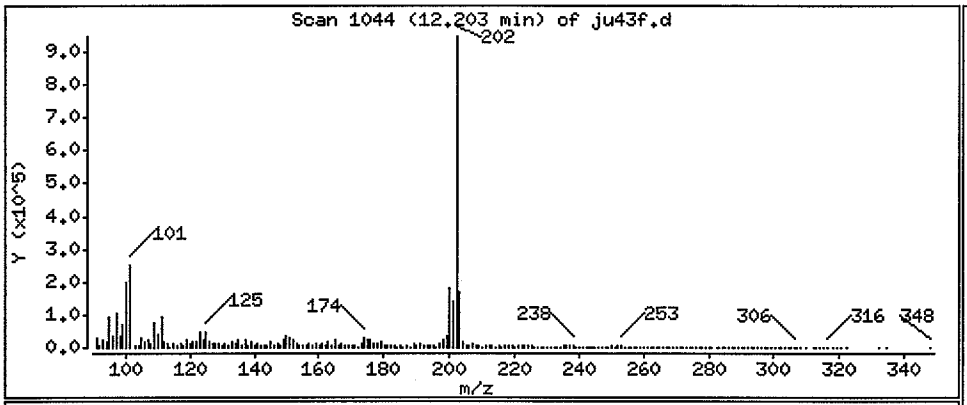
Column phase: ZB-5

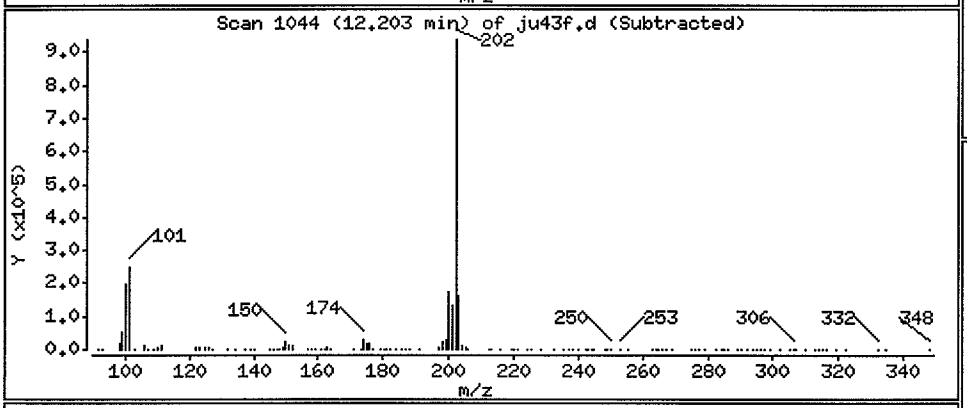
Column diameter: 0.25

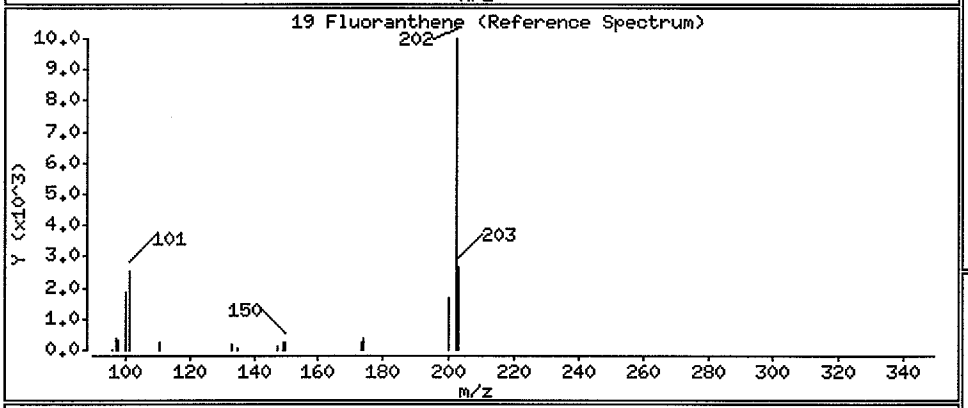
19 Fluoranthene

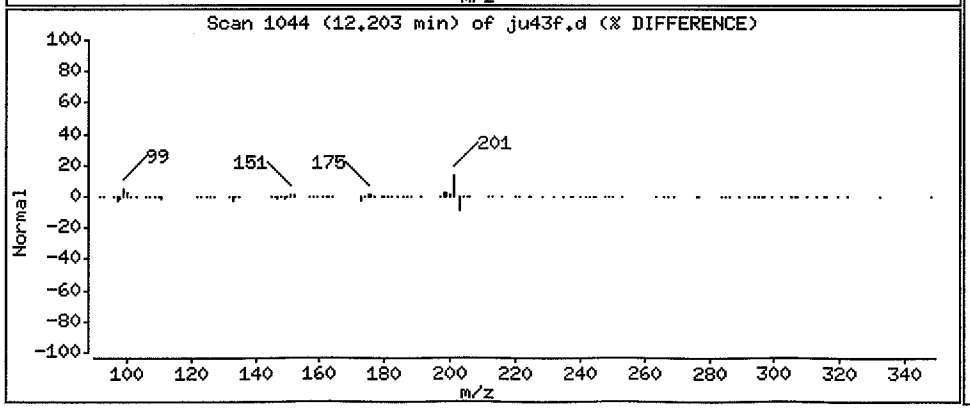
Concentration: 1594 ug/kg

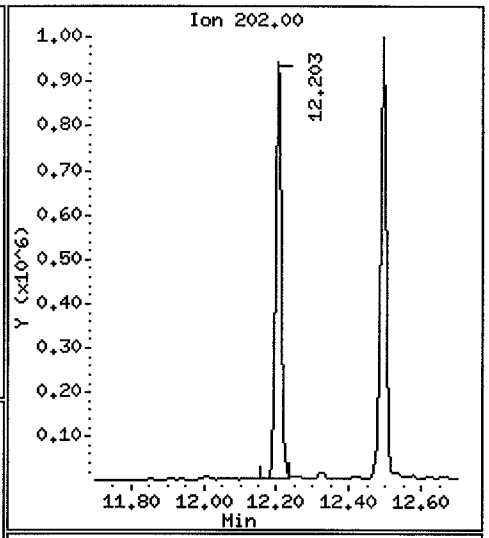
F

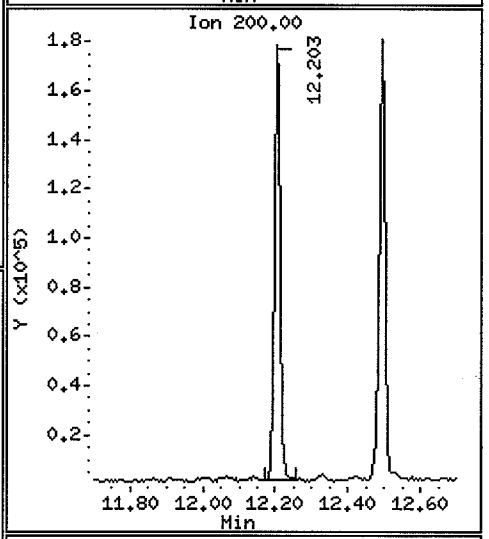


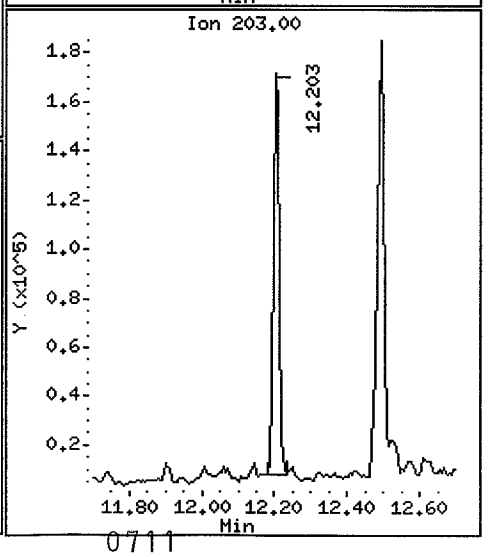












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

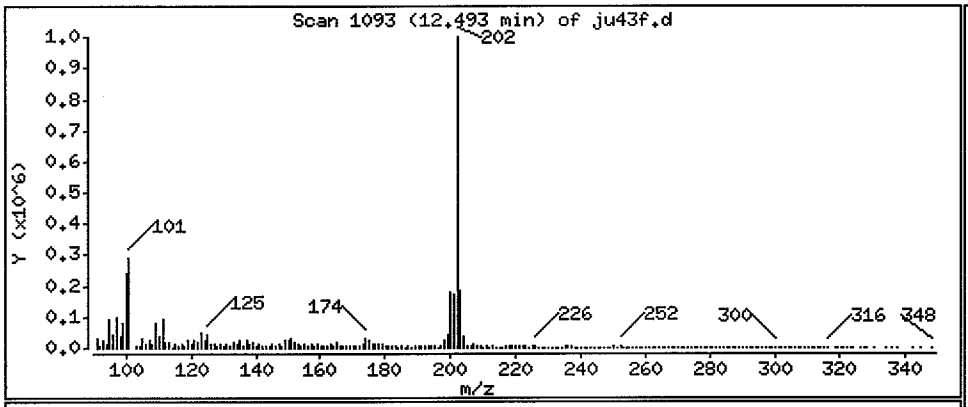
Operator: VTS

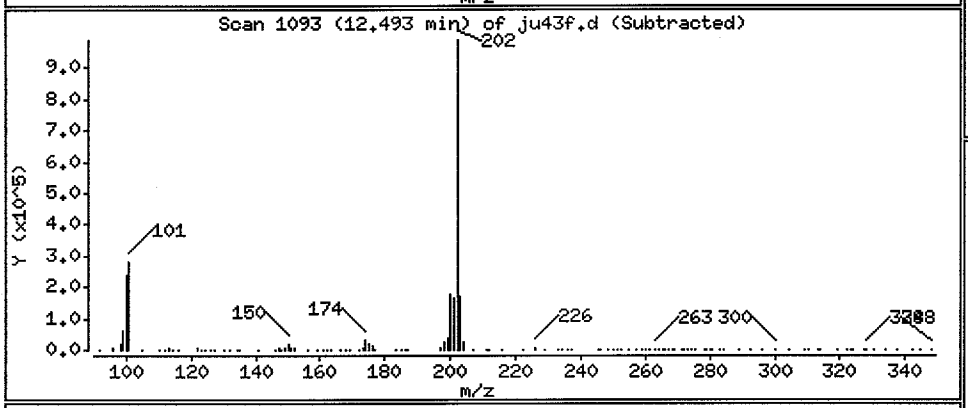
Column phase: ZB-5

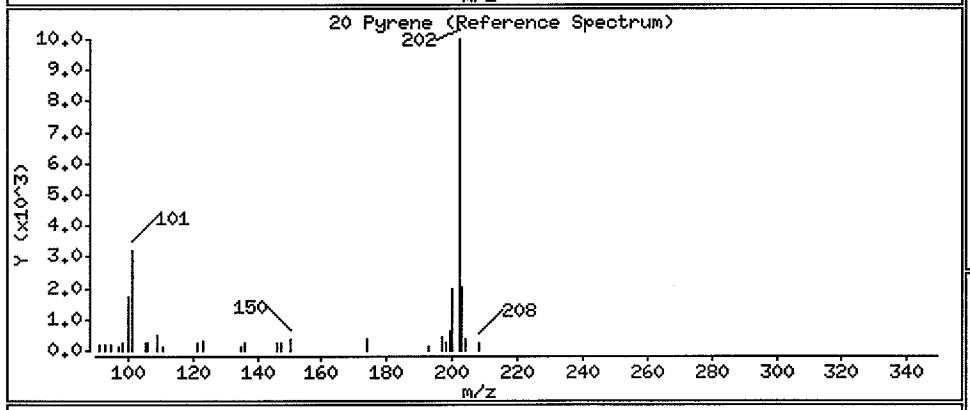
Column diameter: 0.25

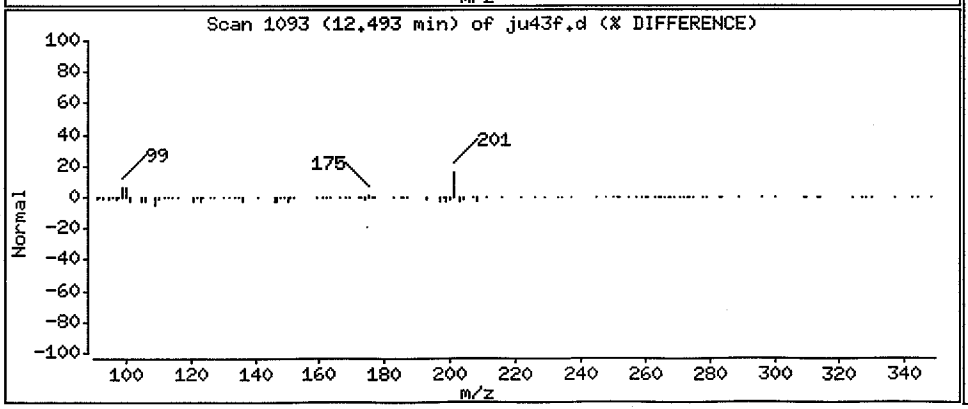
20 Pyrene

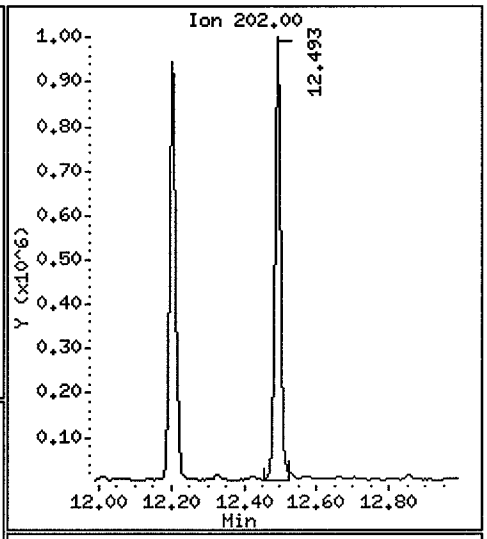
Concentration: 1446 ug/kg

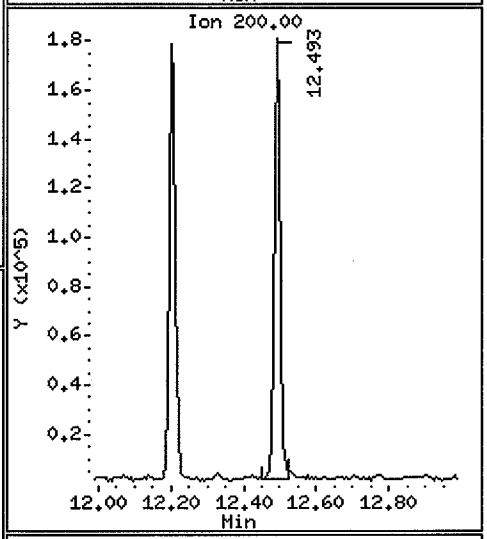


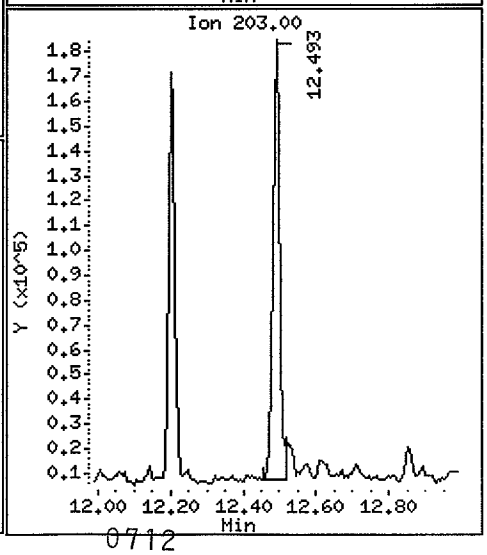












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

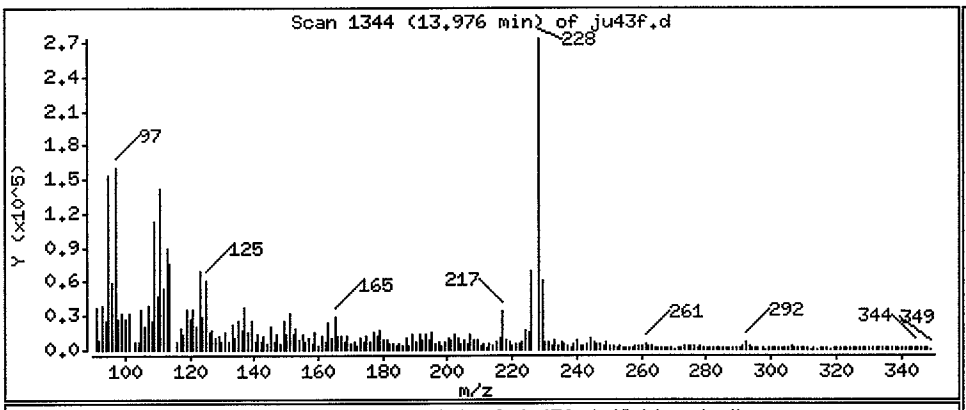
Operator: VTS

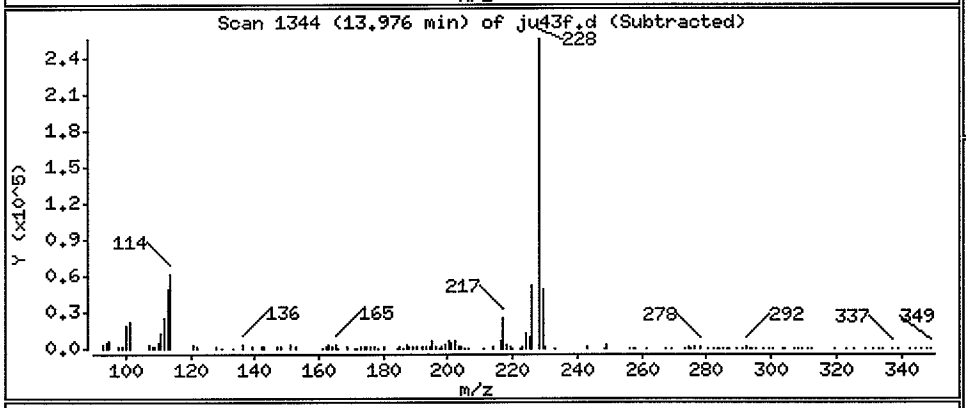
Column phase: ZB-5

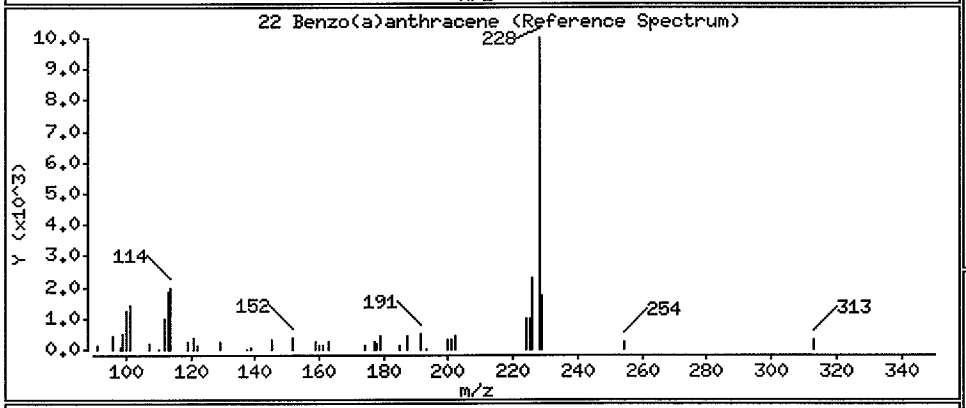
Column diameter: 0.25

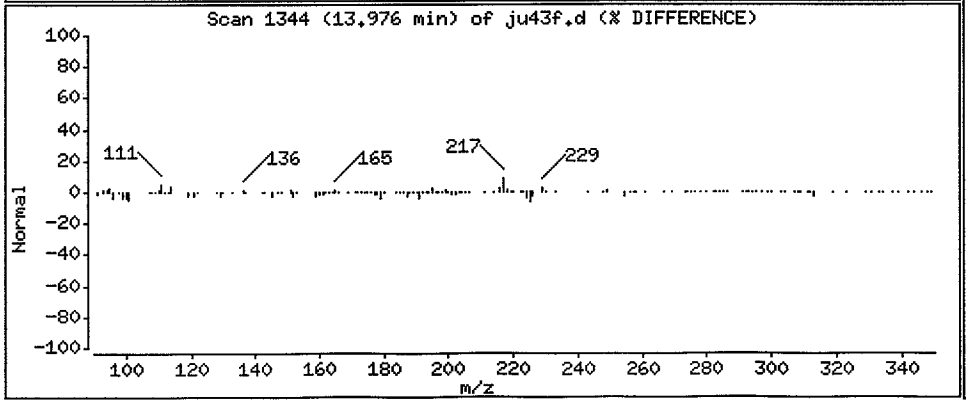
22 Benzo(a)anthracene

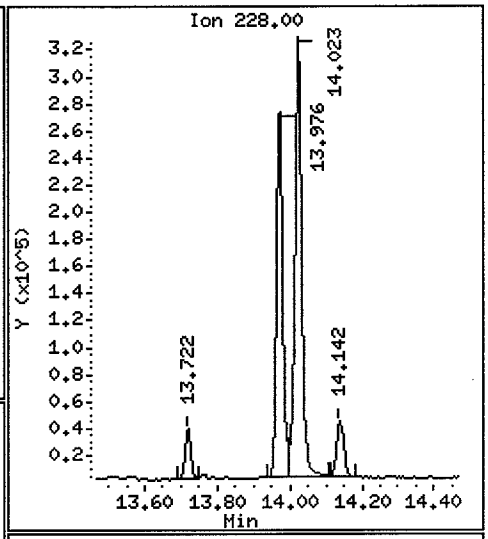
Concentration: 500.9 ug/kg

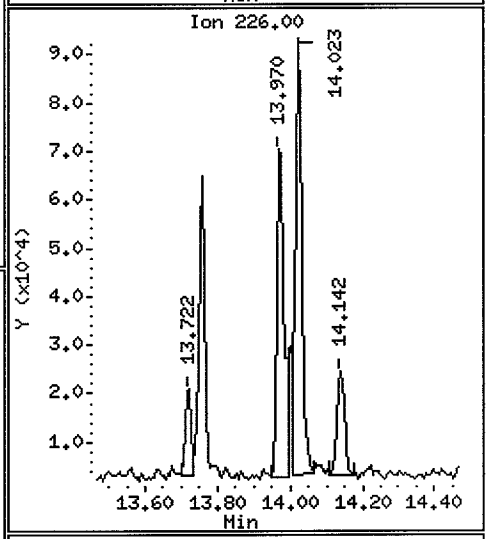


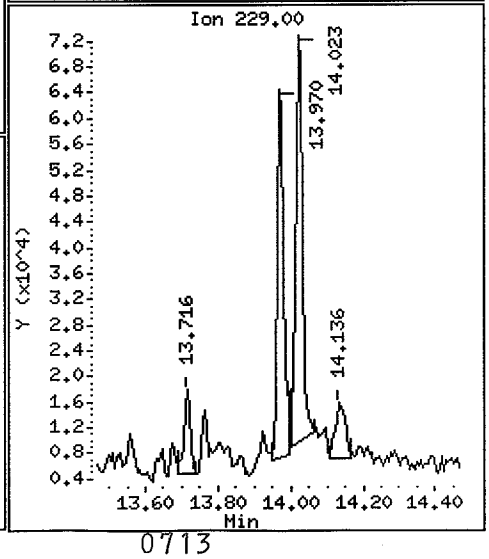












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

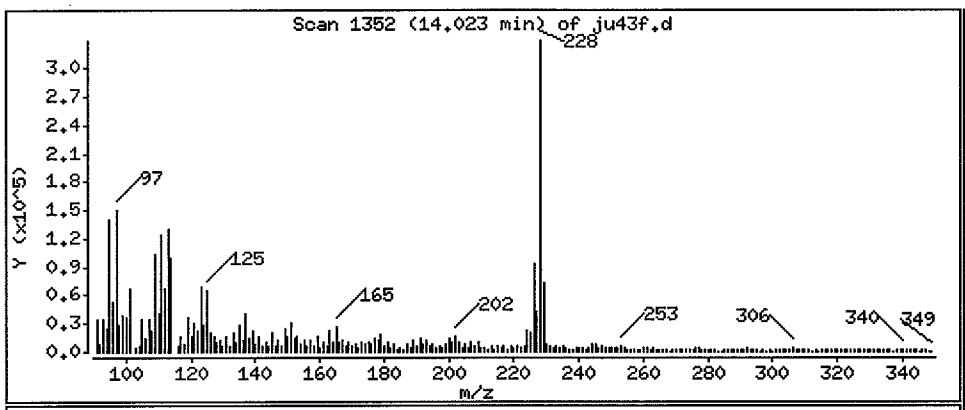
Operator: VTS

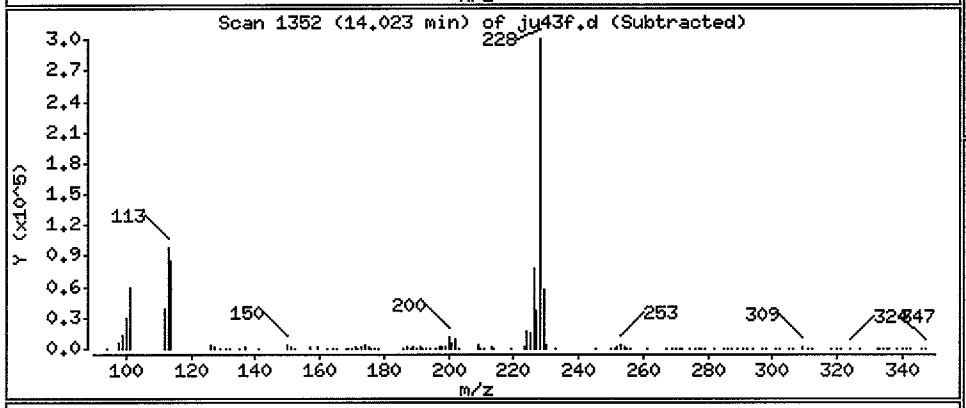
Column phase: ZB-5

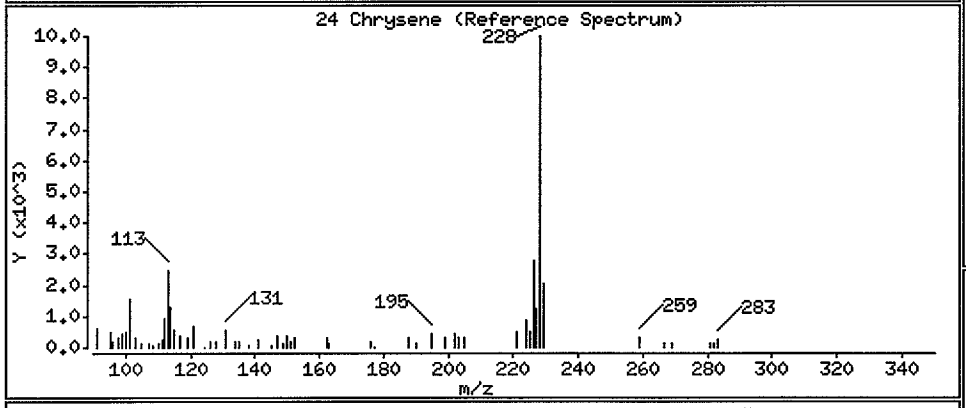
Column diameter: 0.25

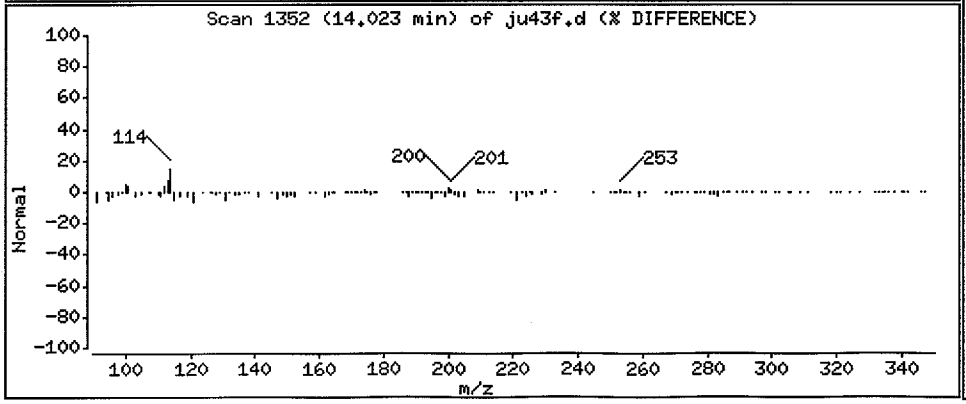
24 Chrysene

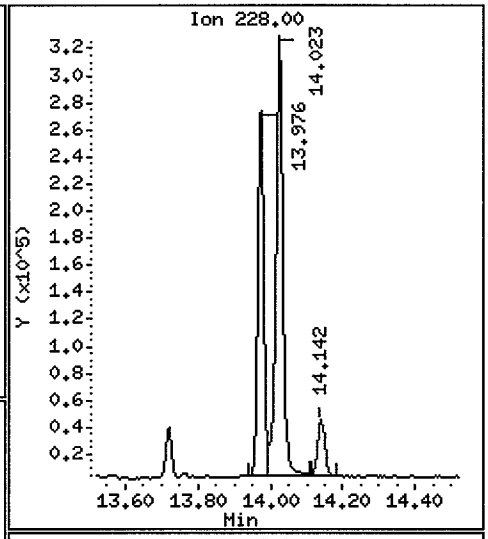
Concentration: 713.1 ug/kg

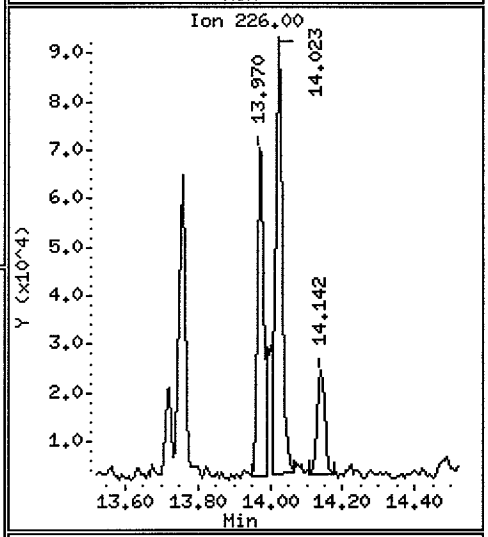


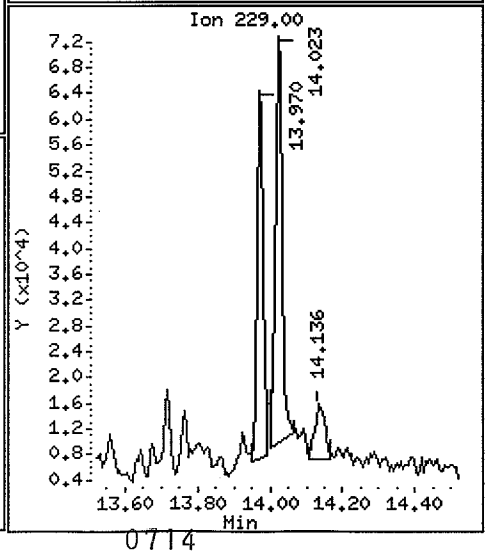












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

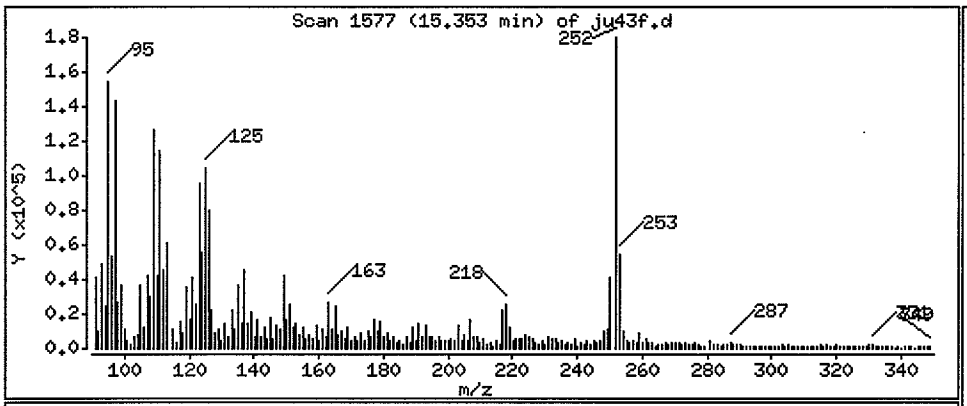
Operator: VTS

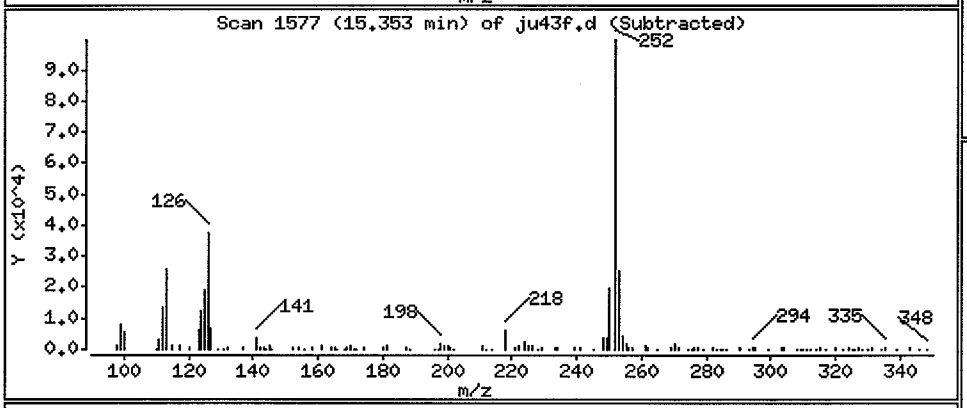
Column phase: ZB-5

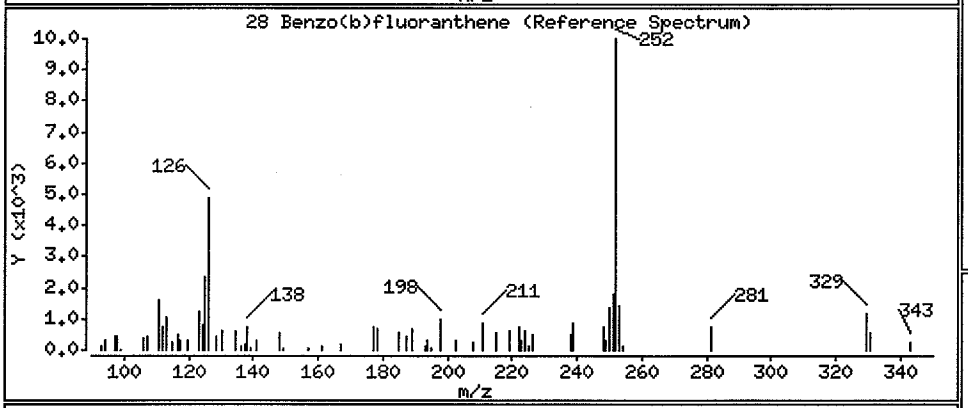
Column diameter: 0.25

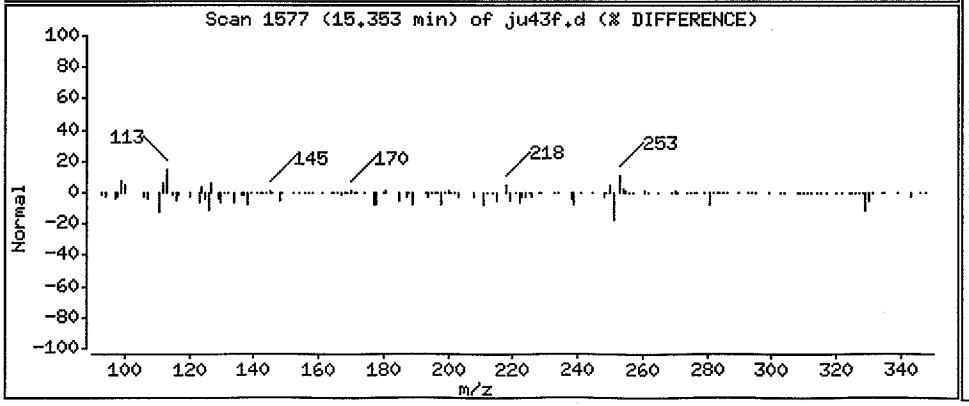
28 Benzo(b)fluoranthene

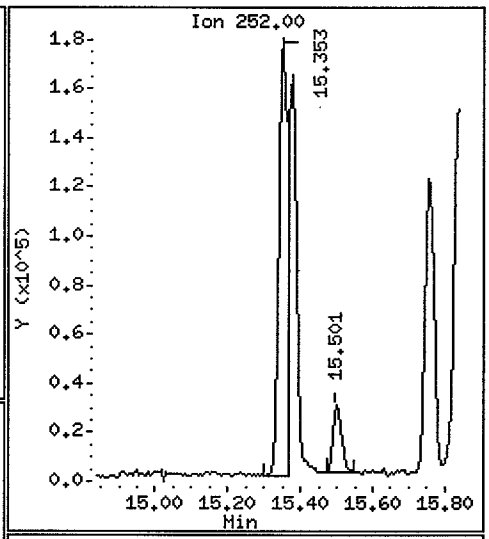
Concentration: 455.2 ug/kg

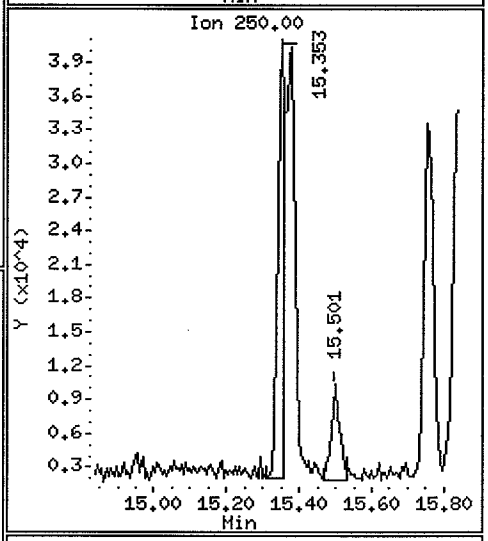


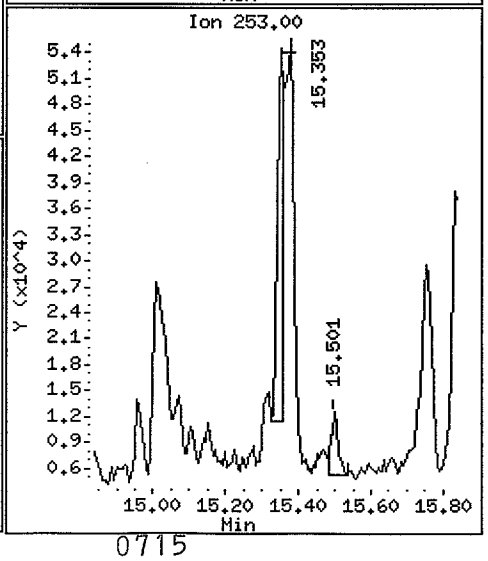












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

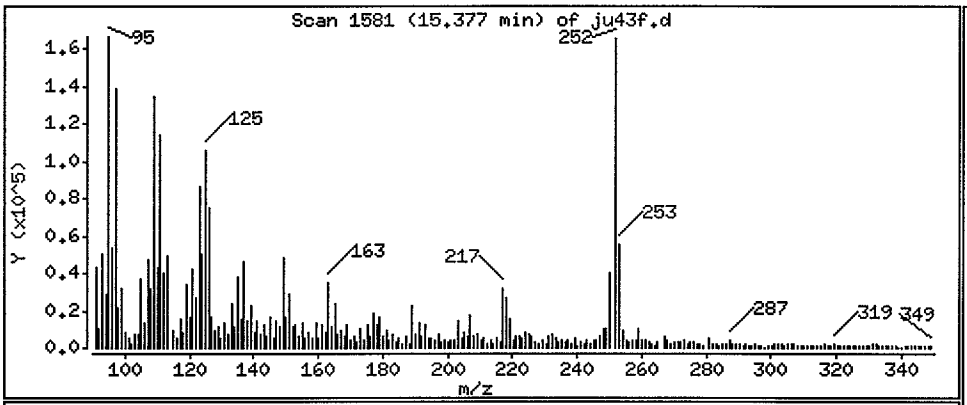
Operator: VTS

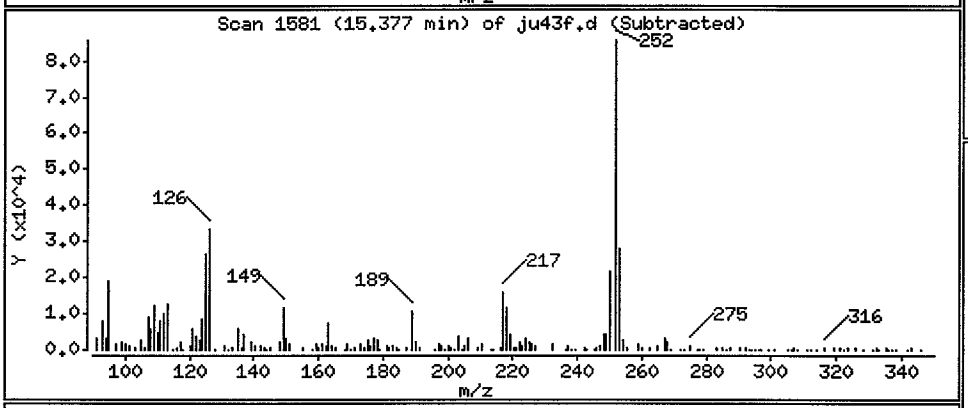
Column phase: ZB-5

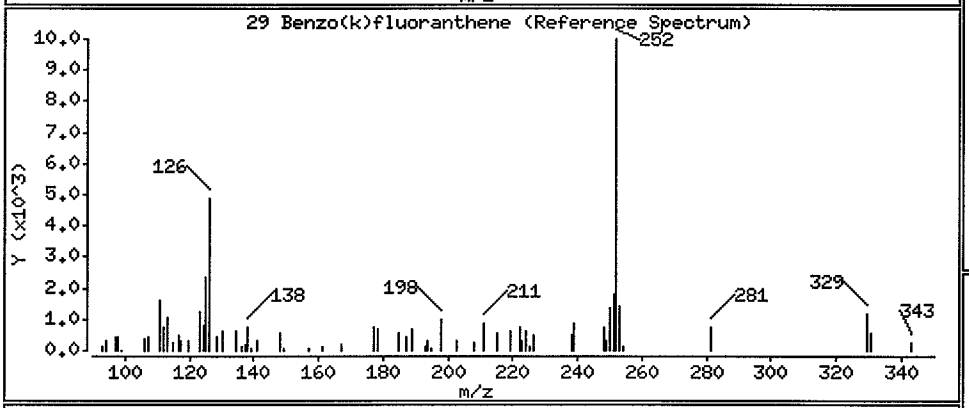
Column diameter: 0.25

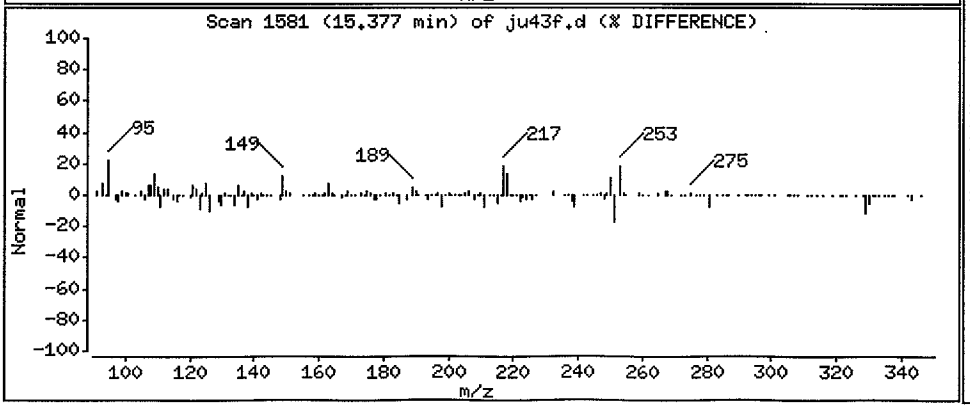
29 Benzo(k)fluoranthene

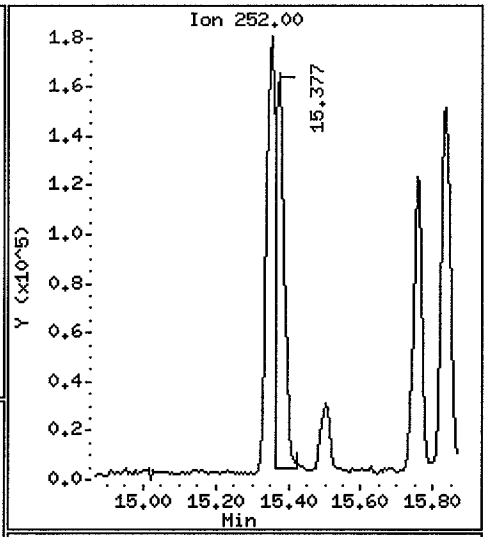
Concentration: 388.6 ug/kg

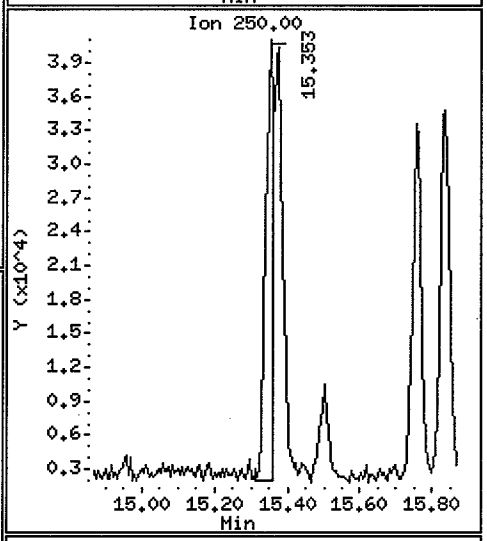


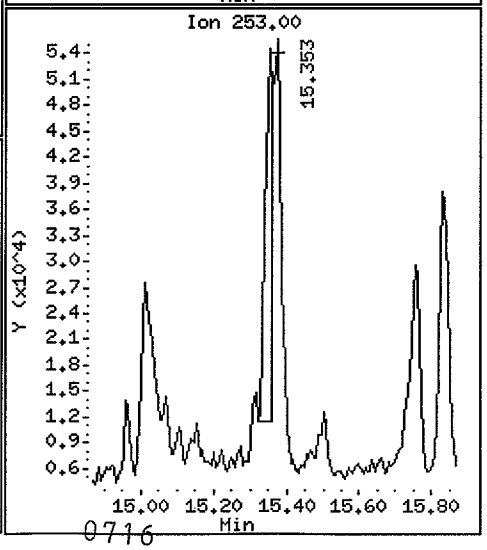












0716

Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

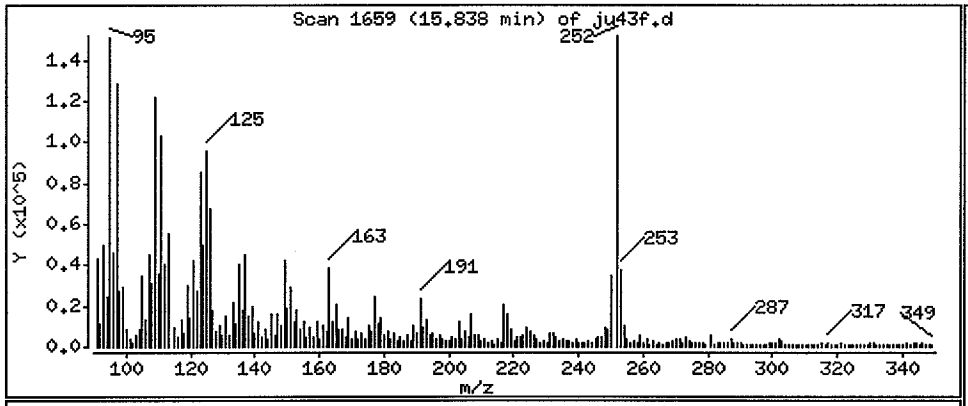
Operator: VTS

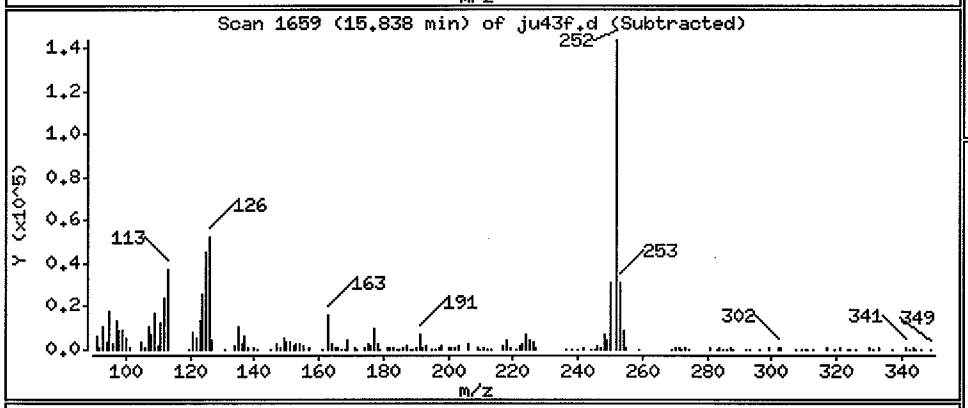
Column phase: ZB-5

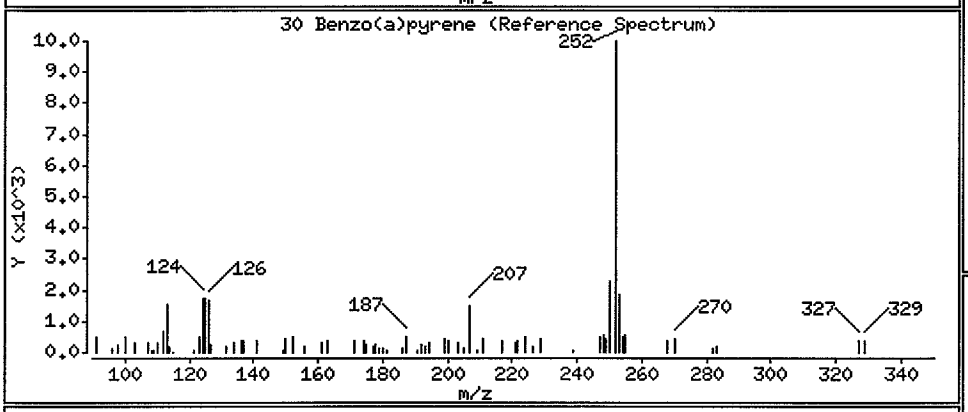
Column diameter: 0.25

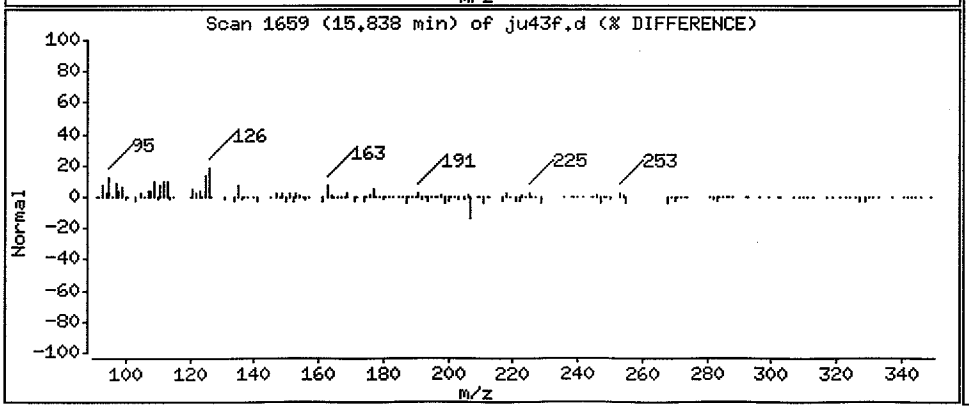
30 Benzo(a)pyrene

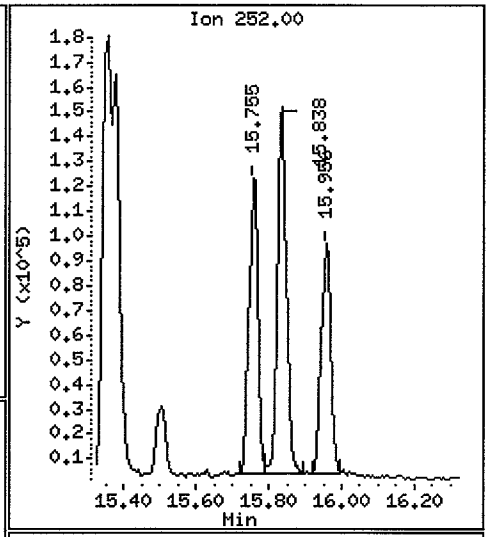
Concentration: 432.0 ug/kg

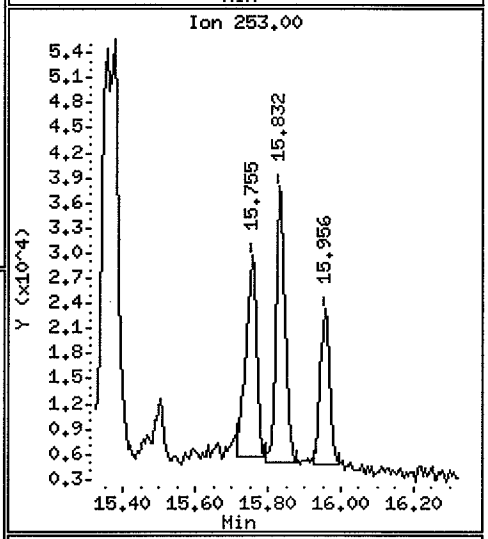


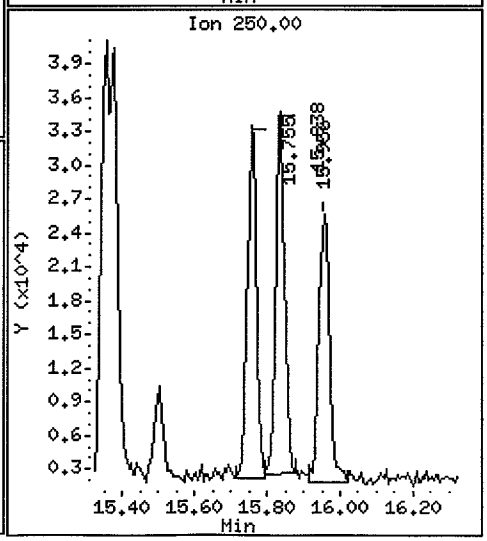












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

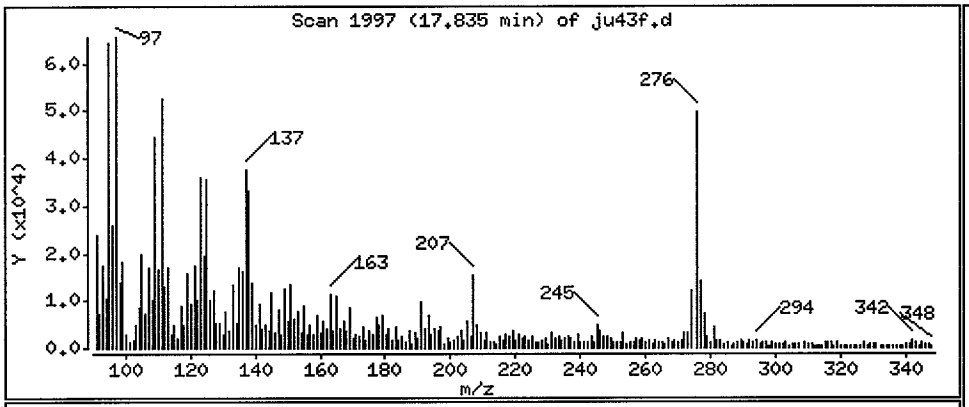
Operator: VTS

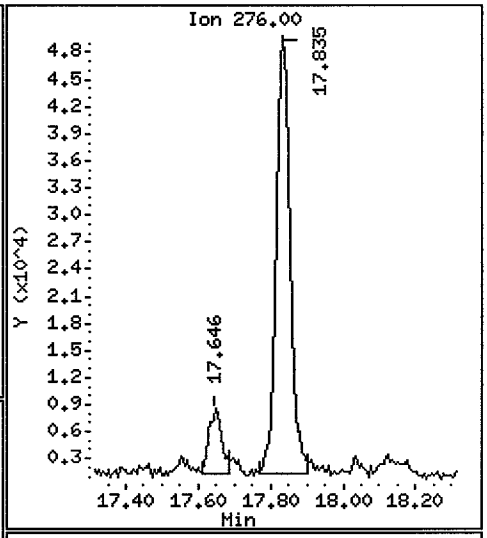
Column phase: ZB-5

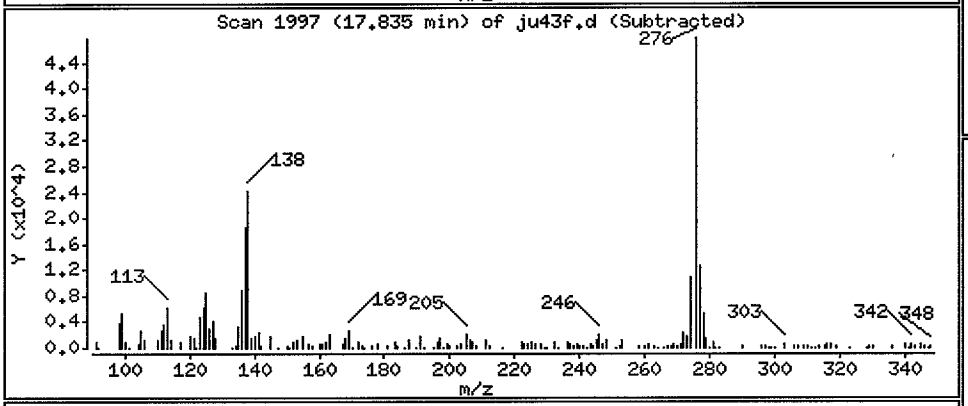
Column diameter: 0.25

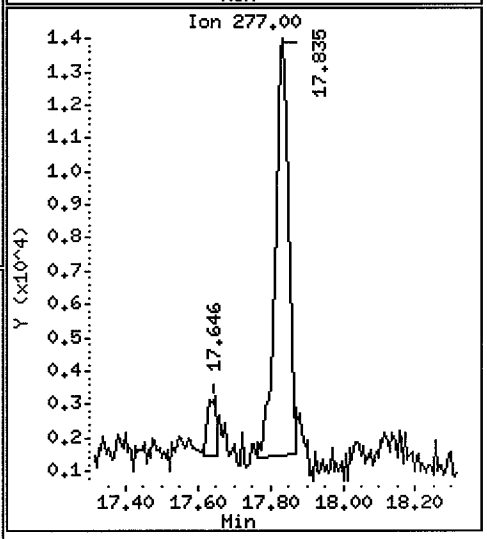
33 Indeno(1,2,3-cd)pyrene

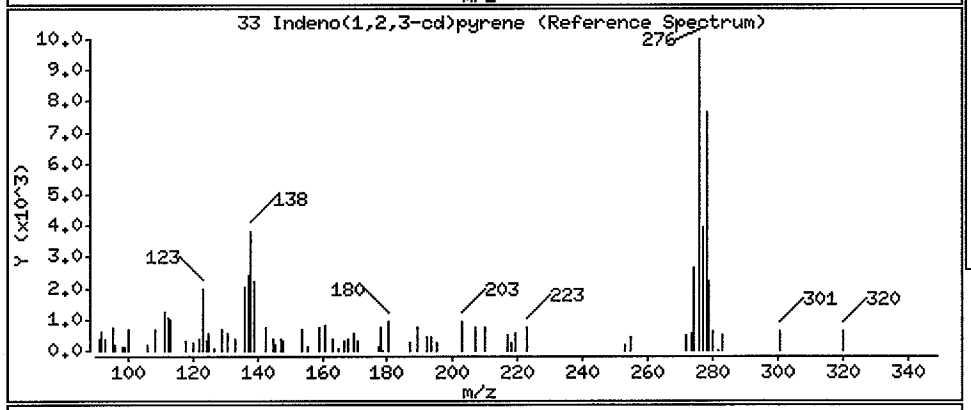
Concentration: 199.5 ug/kg

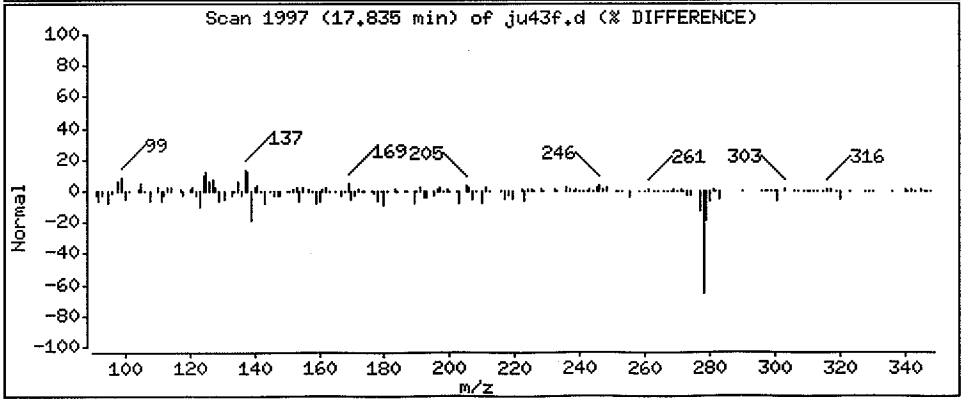












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

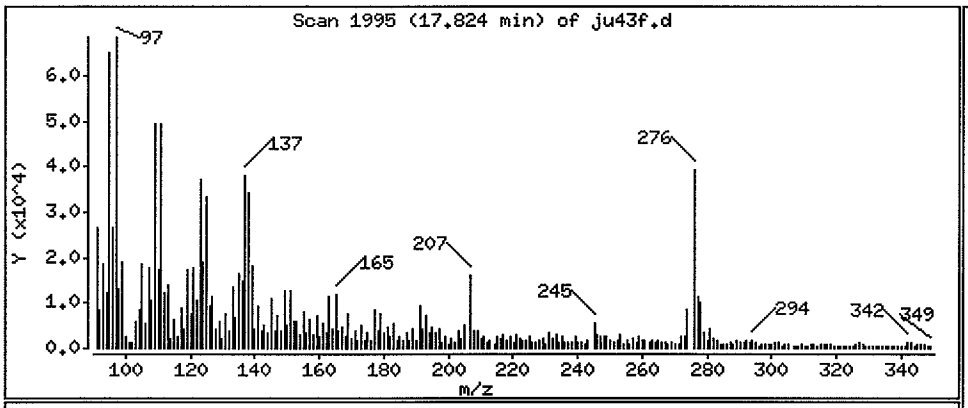
Operator: VTS

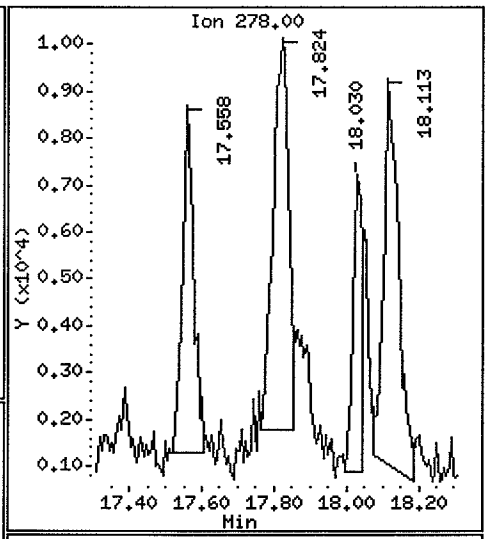
Column phase: ZB-5

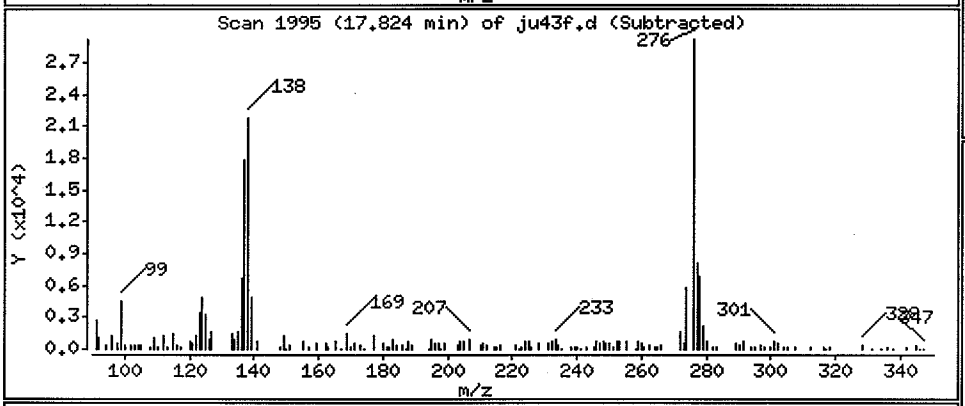
Column diameter: 0.25

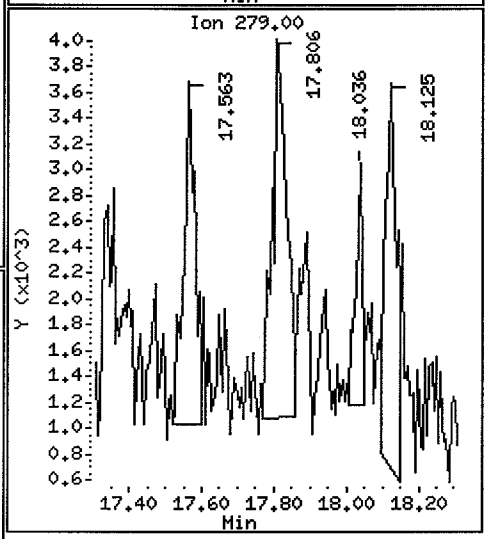
34 Dibenz(a,h)anthracene

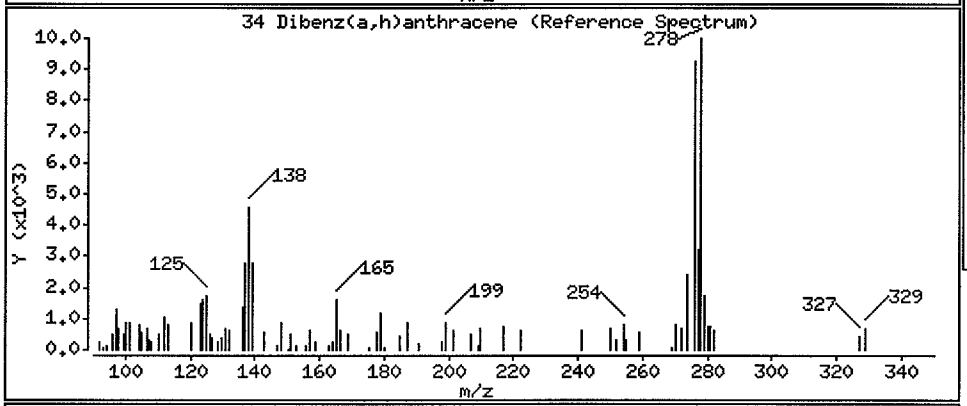
Concentration: 47.51 ug/kg

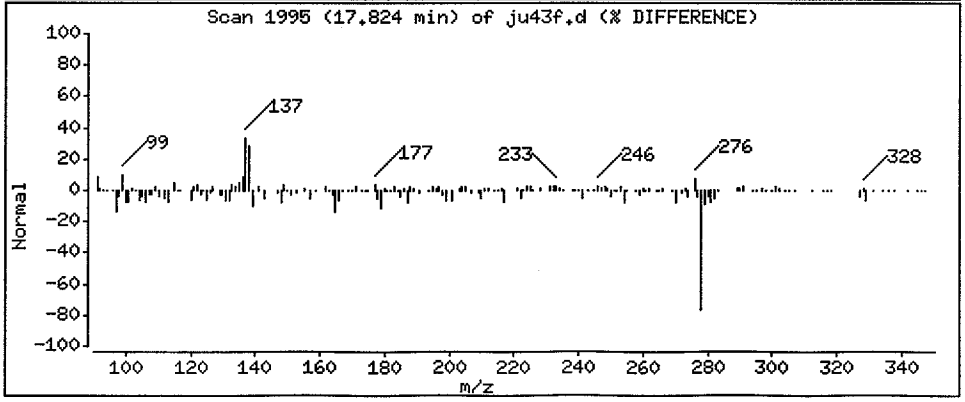












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

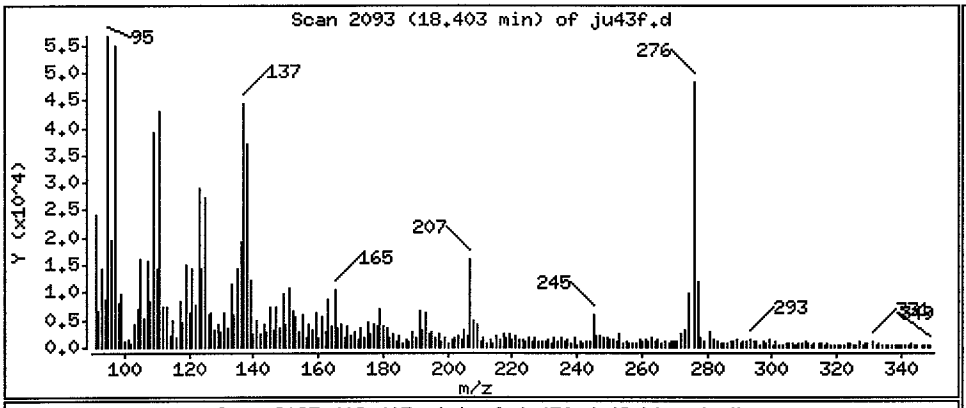
Operator: VTS

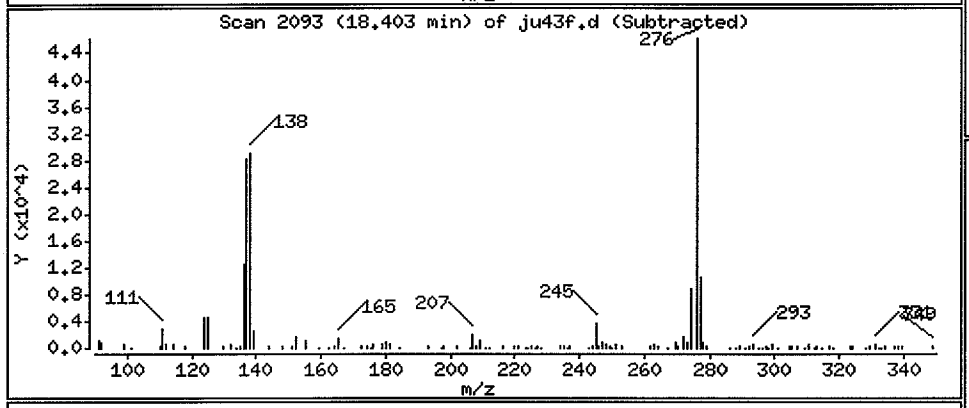
Column phase: ZB-5

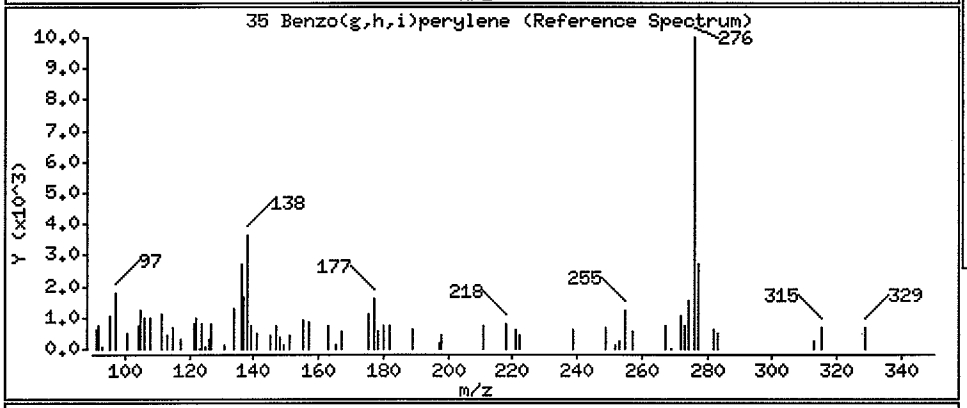
Column diameter: 0.25

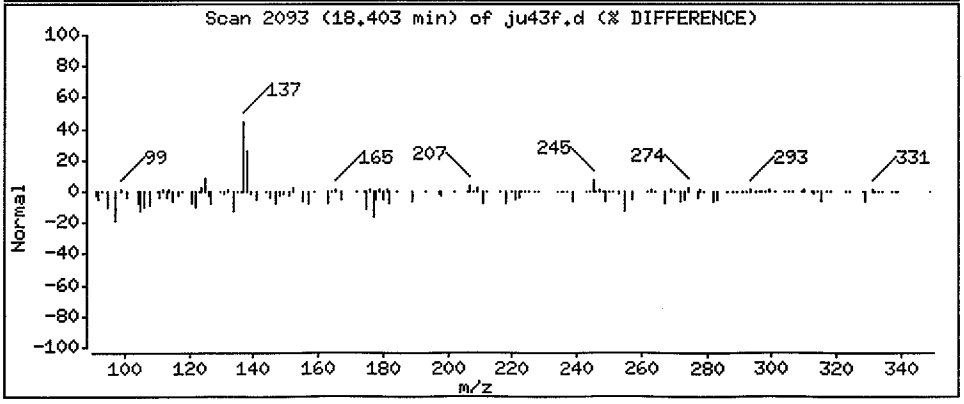
35 Benzo(g,h,i)perylene

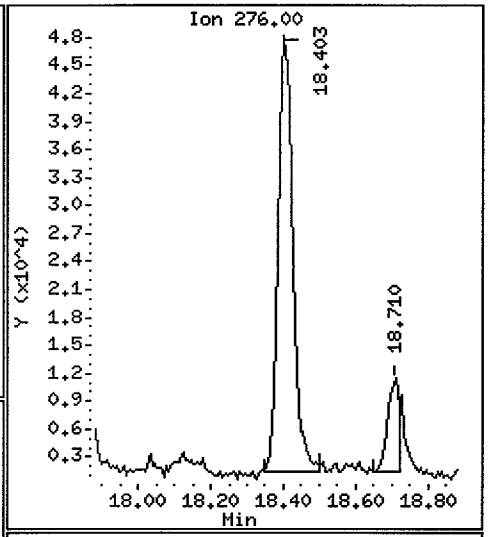
Concentration: 232.3 ug/kg

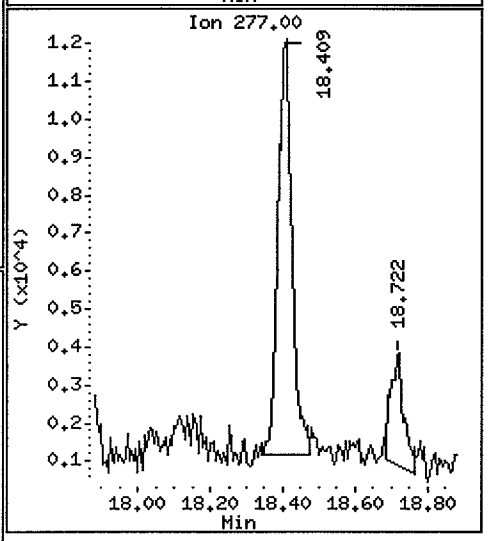












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

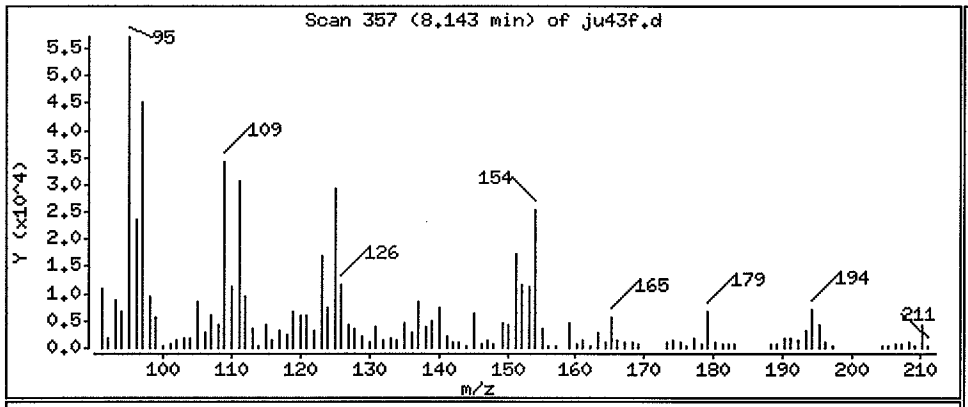
Operator: VTS

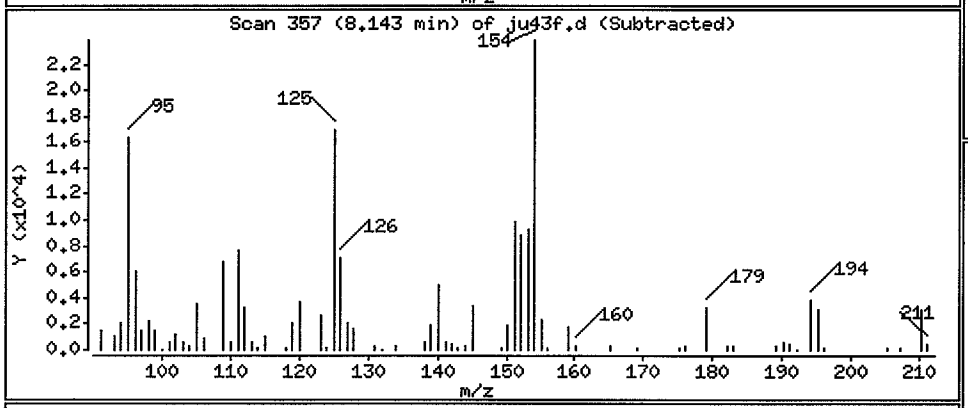
Column phase: ZB-5

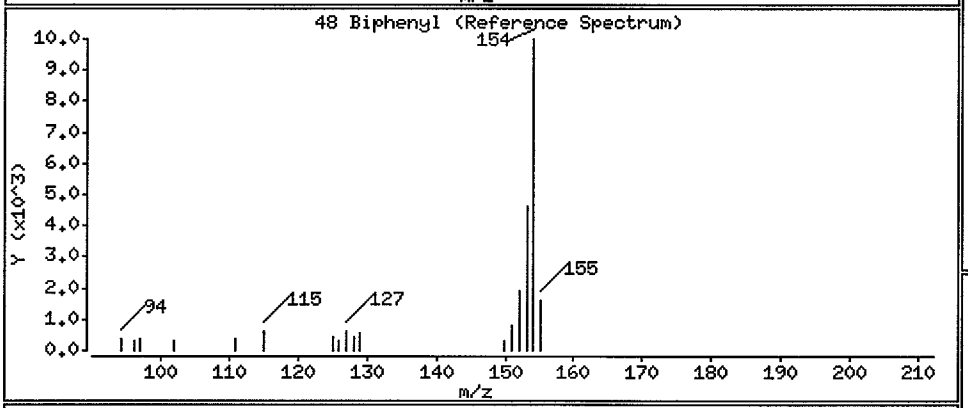
Column diameter: 0.25

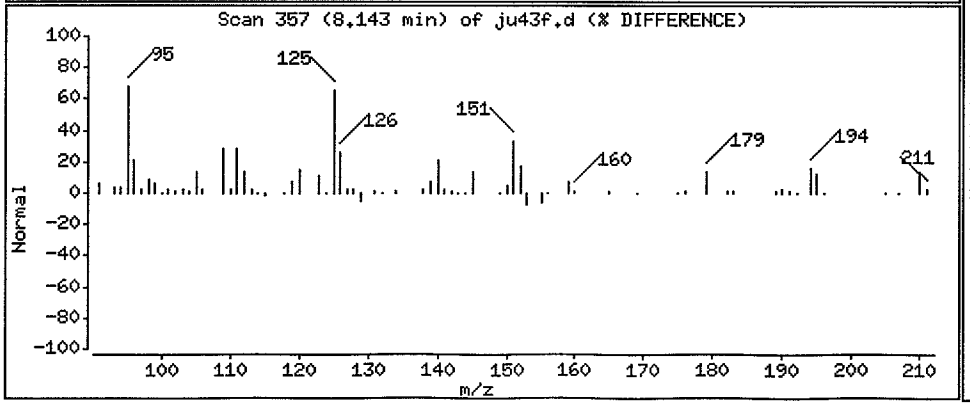
48 Biphenyl

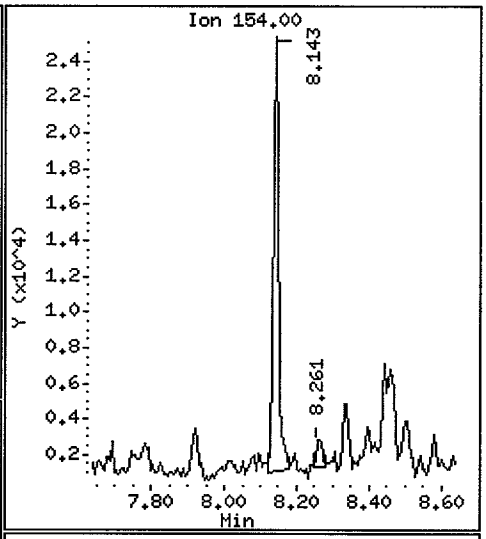
Concentration: 35.95 ug/kg

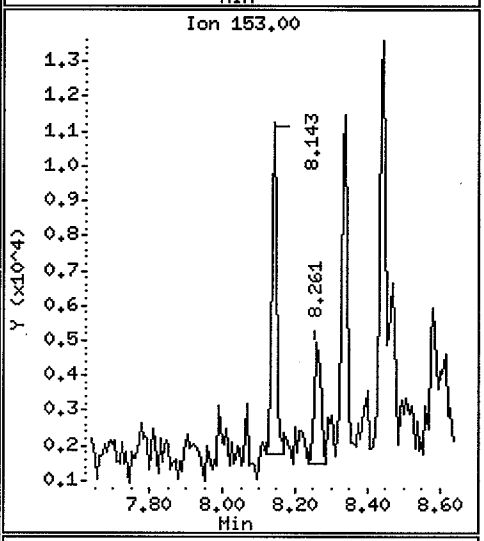


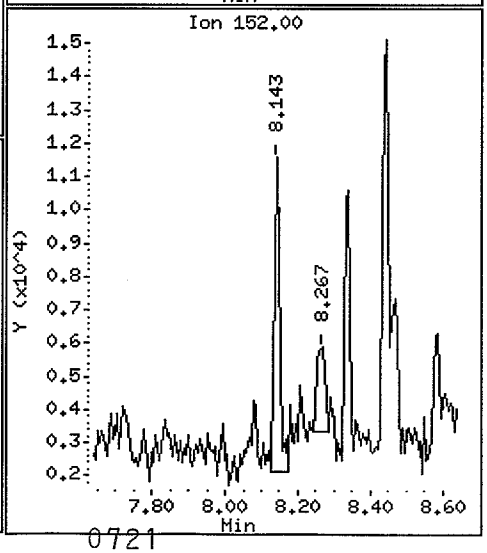












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

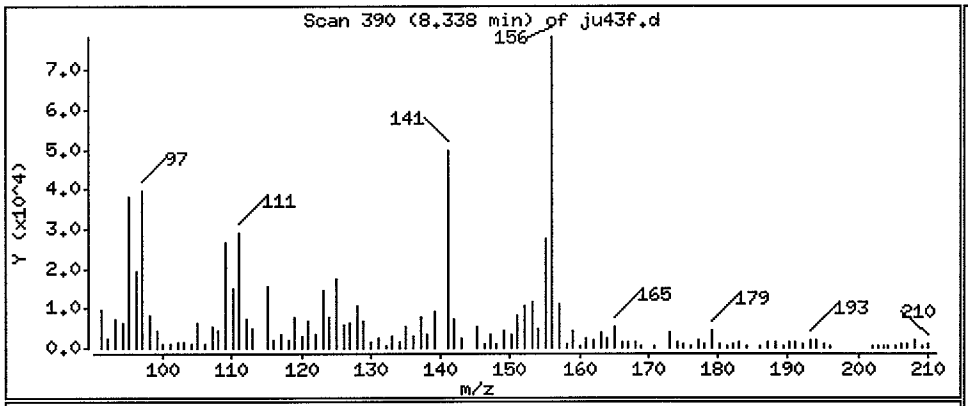
Operator: VTS

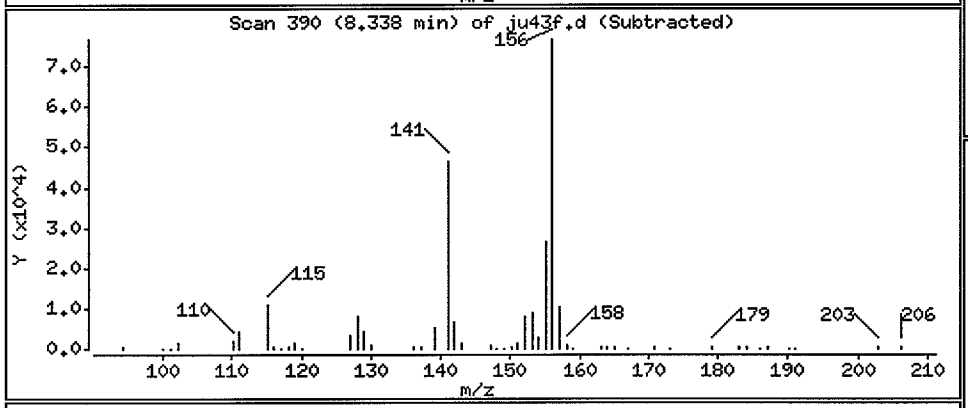
Column phase: ZB-5

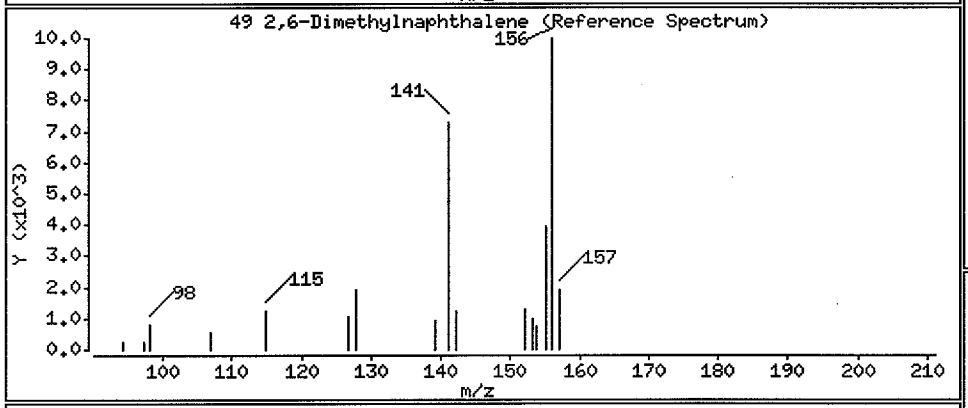
Column diameter: 0.25

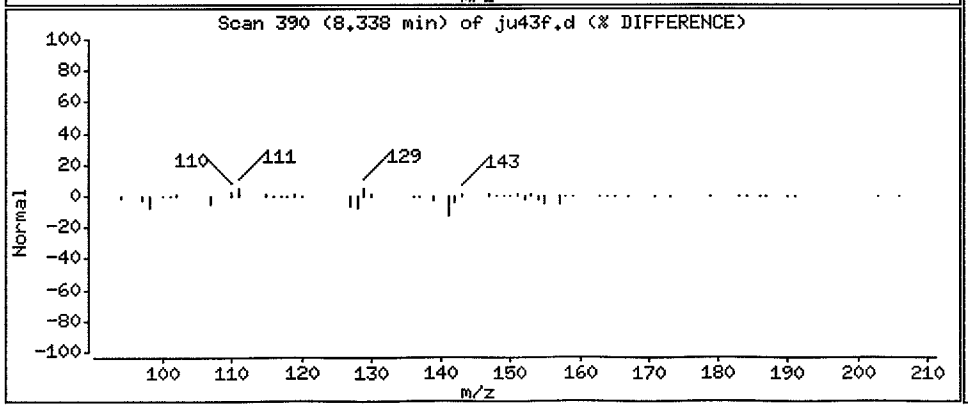
49 2,6-Dimethylnaphthalene

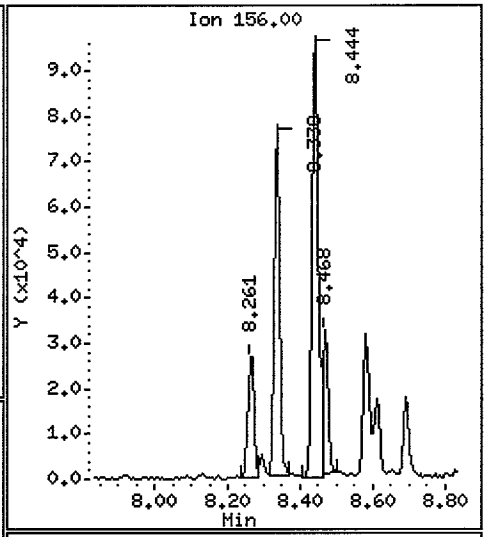
Concentration: 156.4 ug/kg

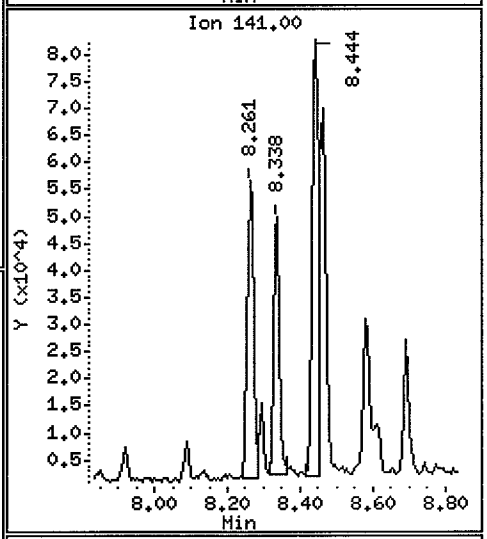


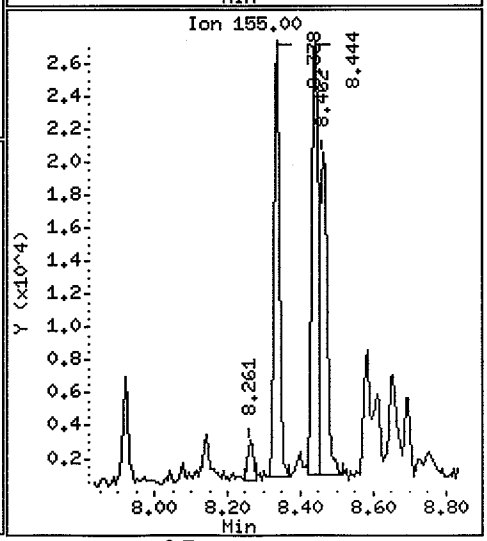












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

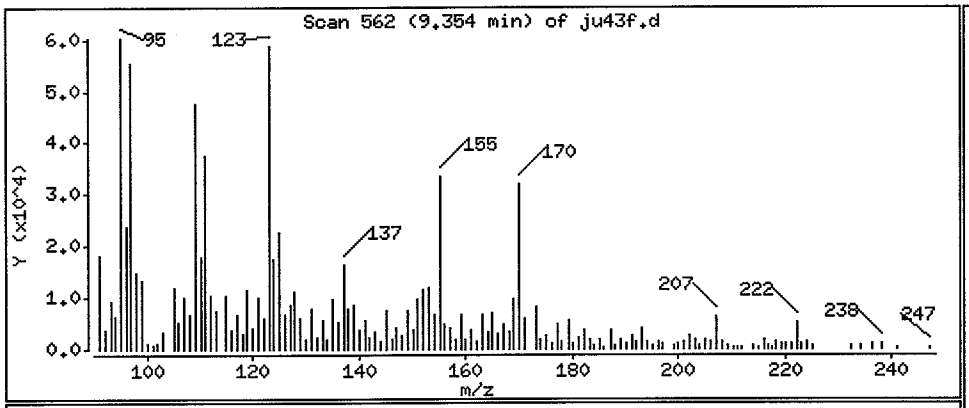
Operator: VTS

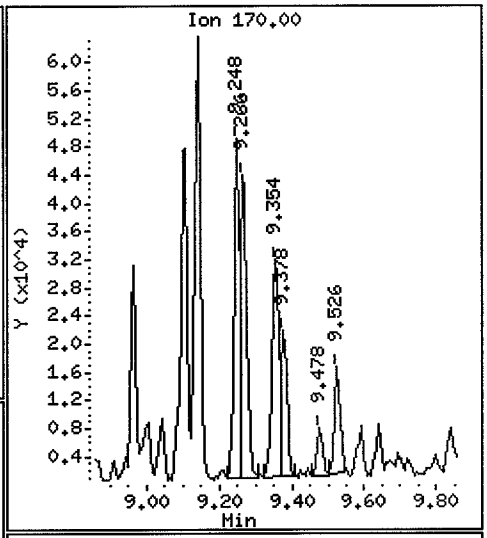
Column phase: ZB-5

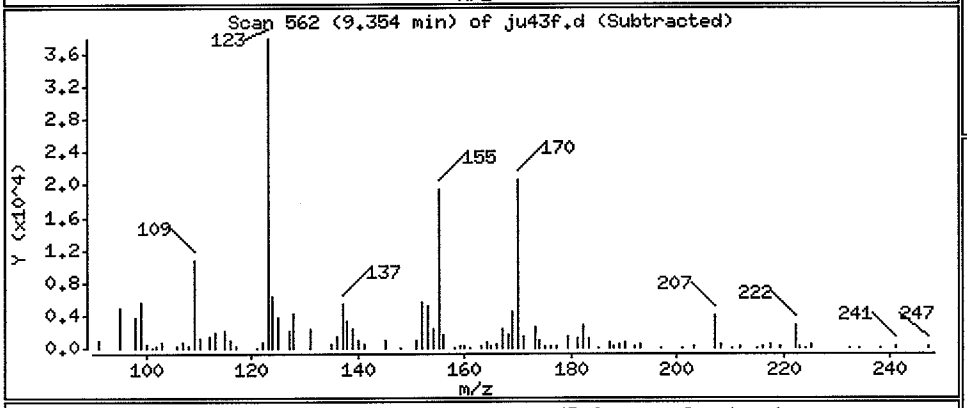
Column diameter: 0.25

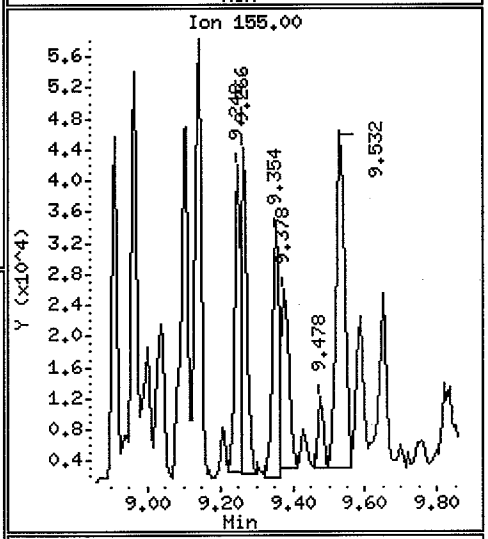
50 2,3,5-Trimethylnaphthalene

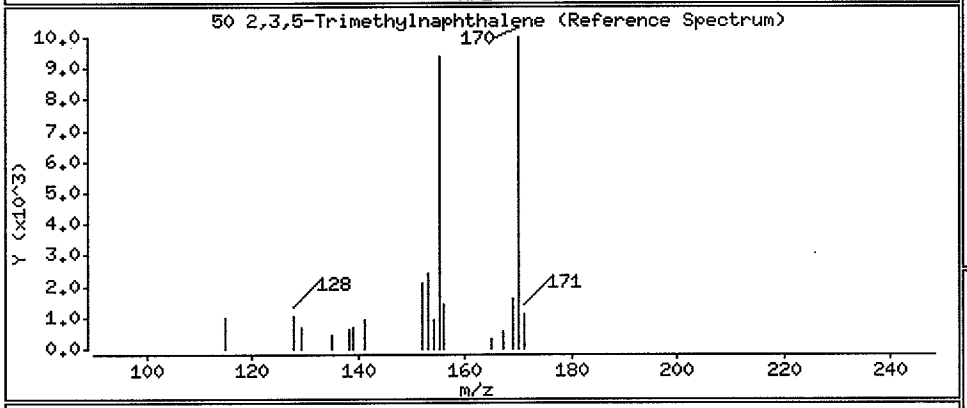
Concentration: 111.6 ug/kg

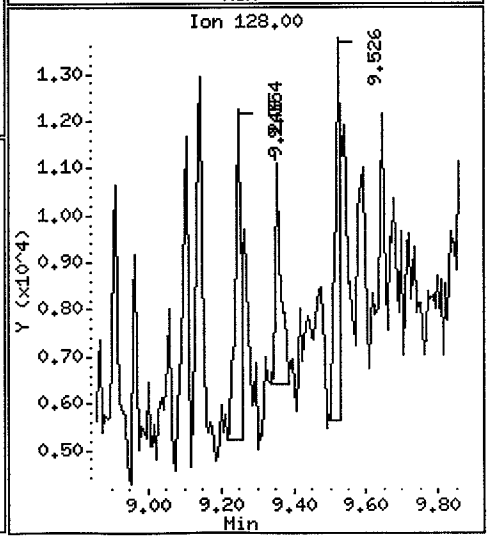


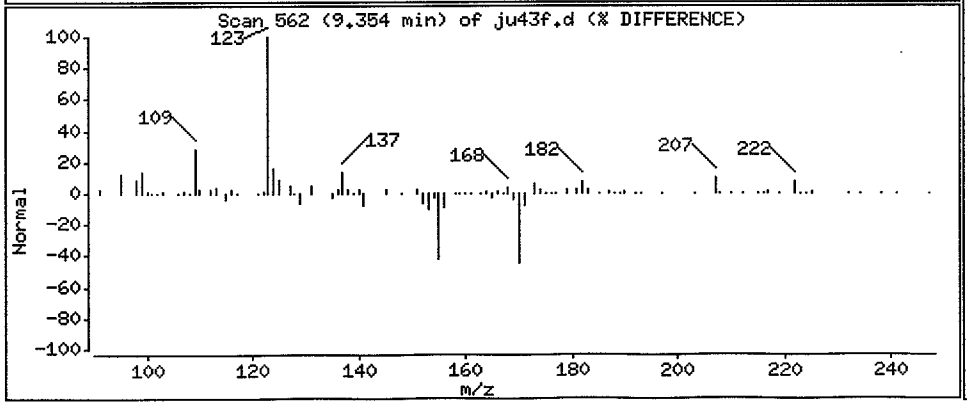












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

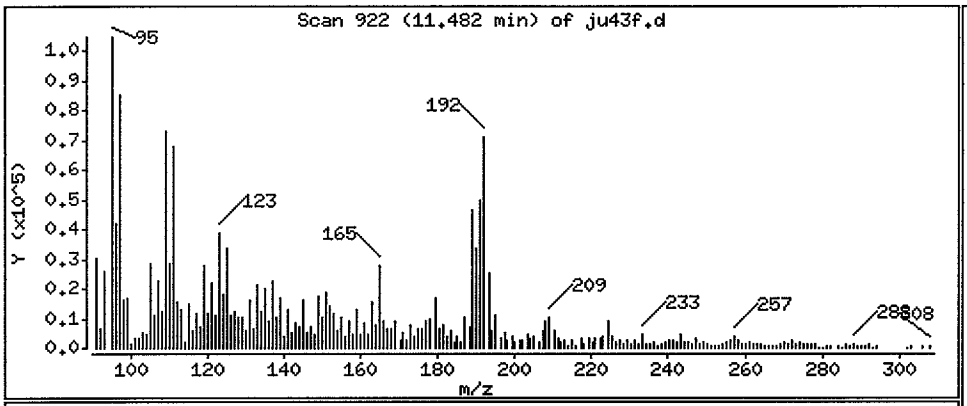
Operator: VTS

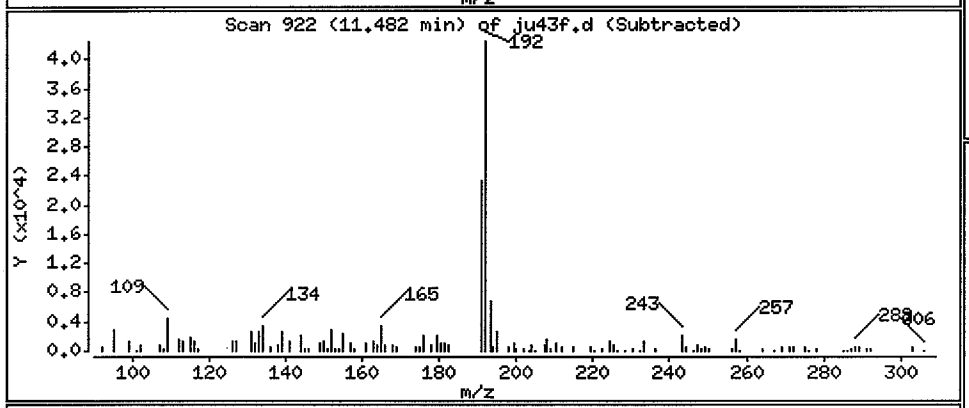
Column phase: ZB-5

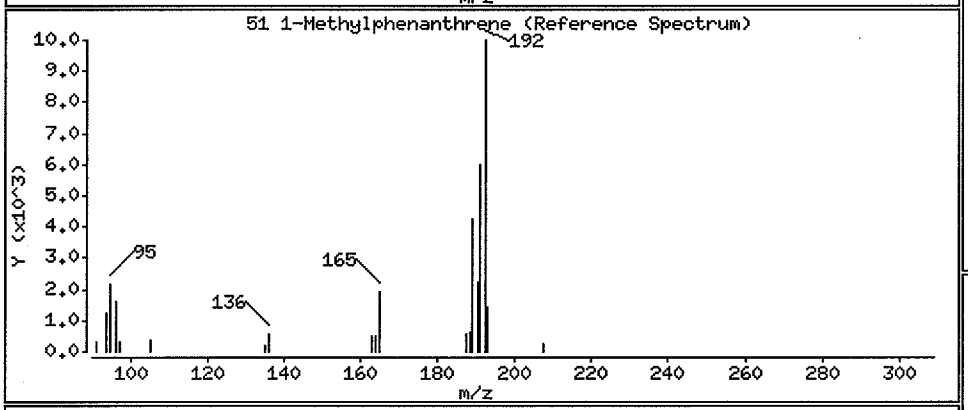
Column diameter: 0.25

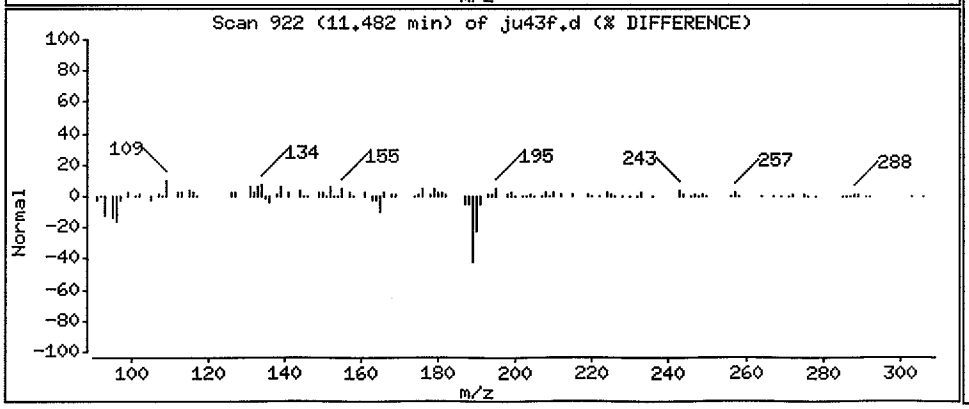
51 1-Methylphenanthrene

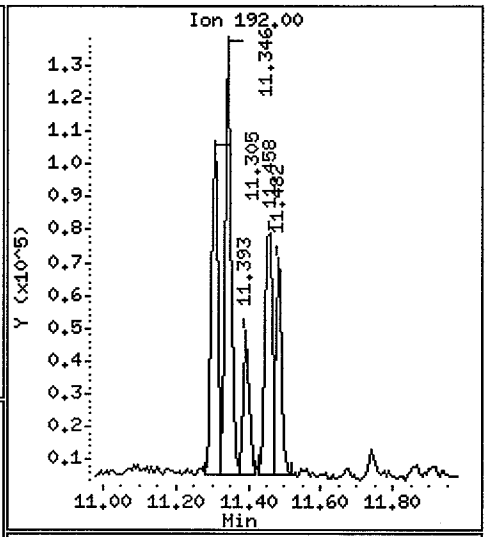
Concentration: 152.7 ug/kg

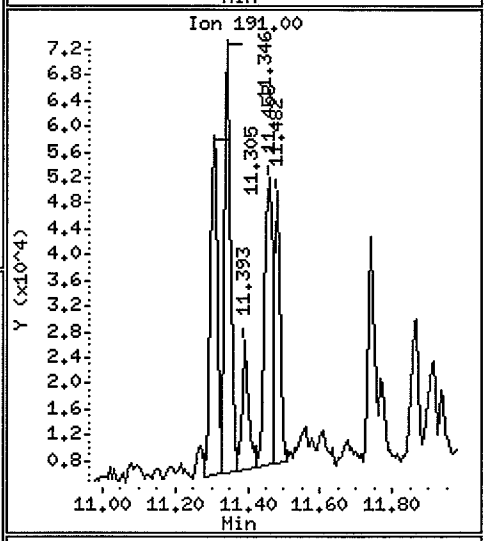


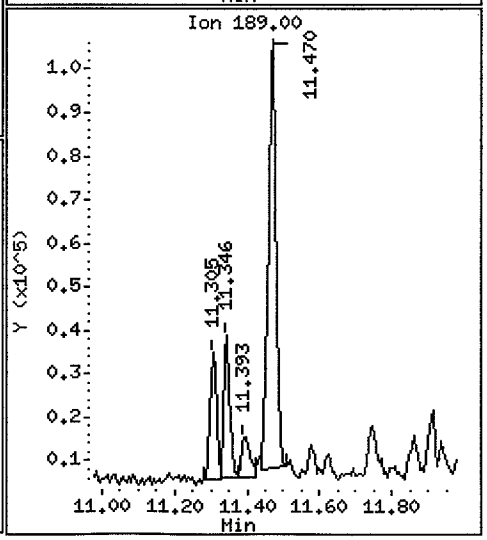












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

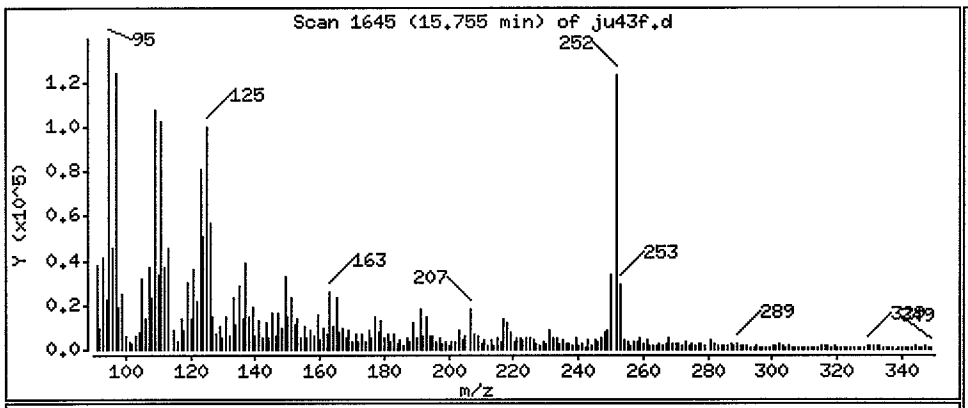
Operator: VTS

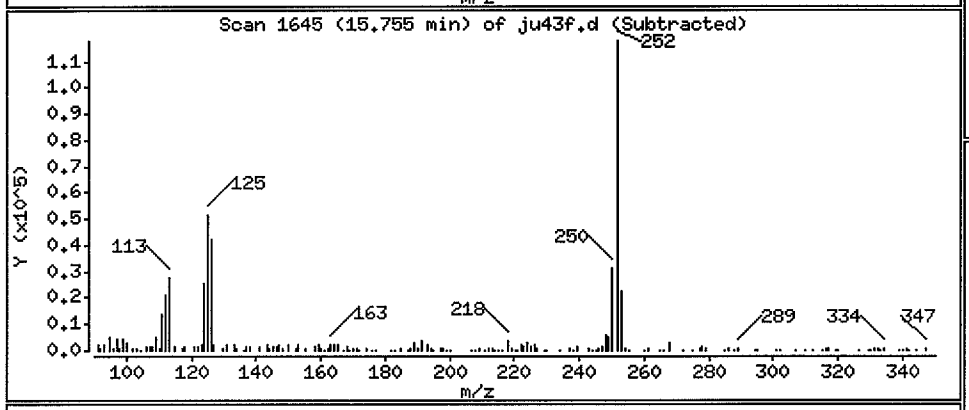
Column phase: ZB-5

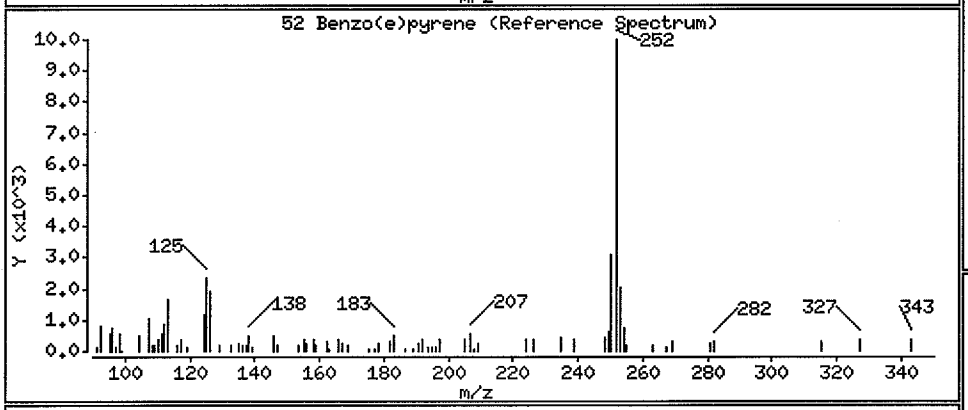
Column diameter: 0.25

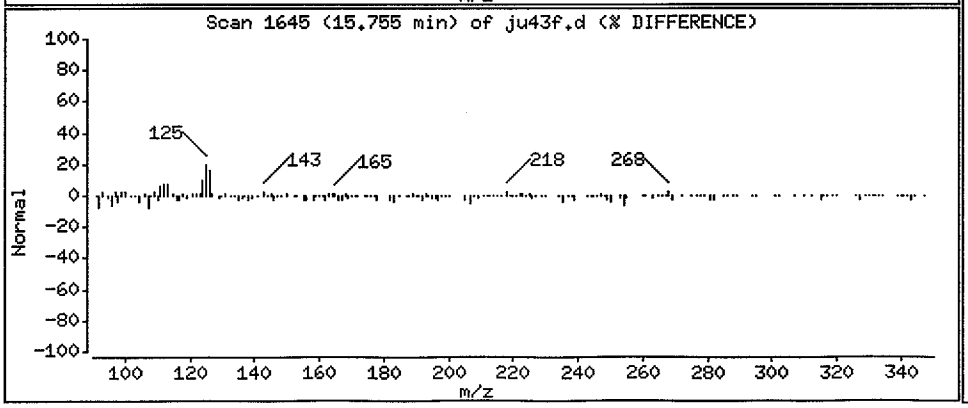
52 Benzo(e)pyrene

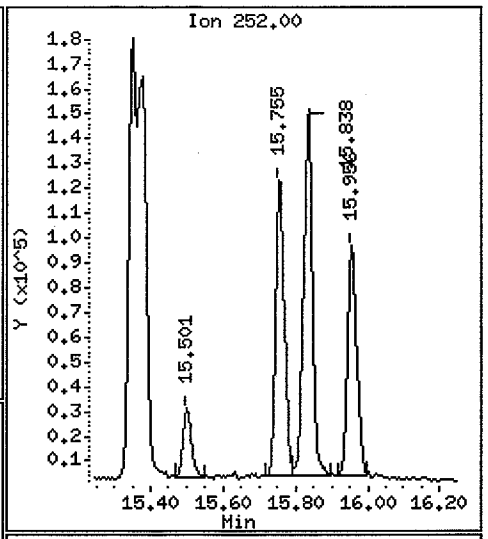
Concentration: 307.7 ug/kg

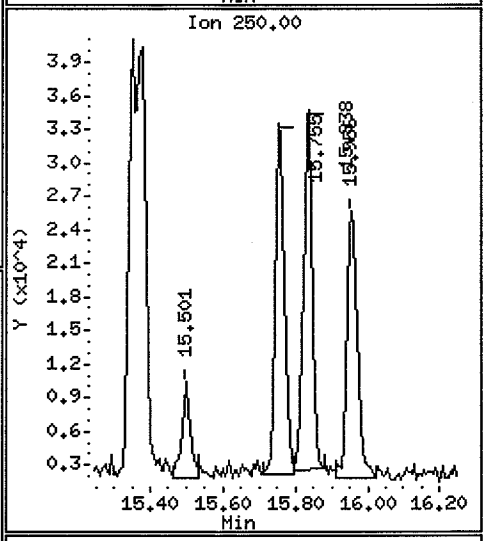


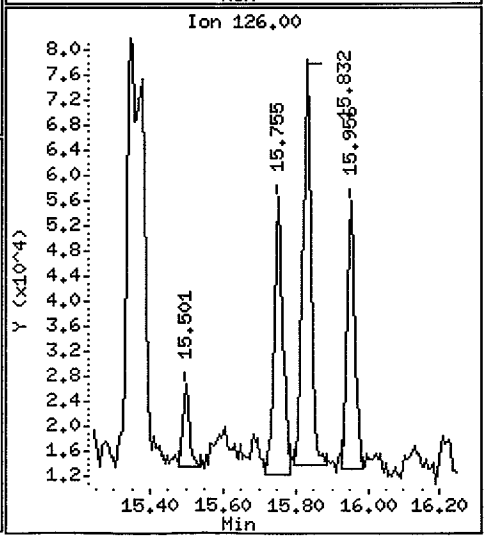












Data File: /chem3/nt1.i/20060912.b/ju43f.d

Date : 12-SEP-2006 15:31

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,3

Volume Injected (uL): 1.0

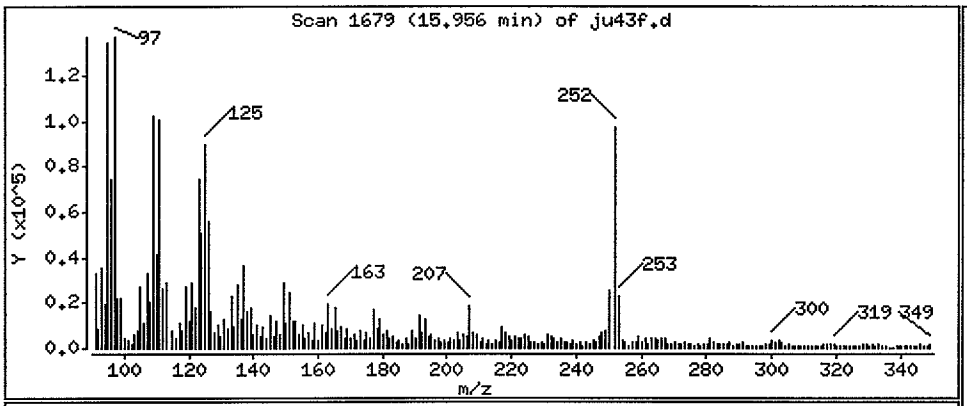
Operator: VTS

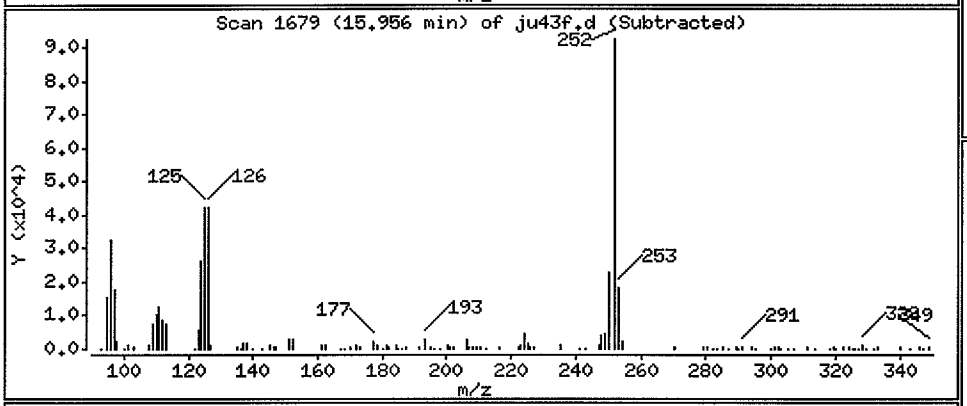
Column phase: ZB-5

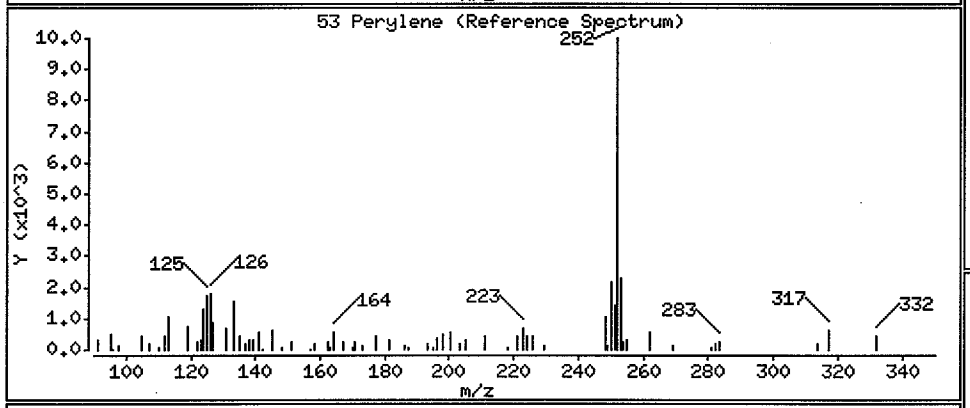
Column diameter: 0.25

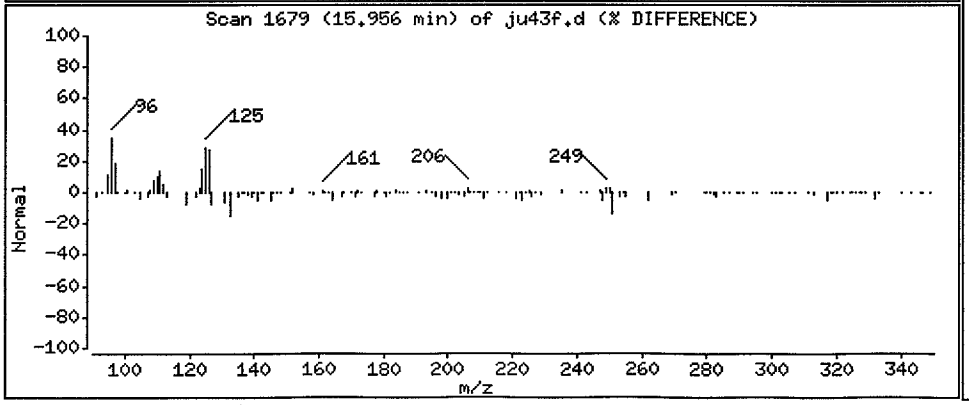
53 Perylene

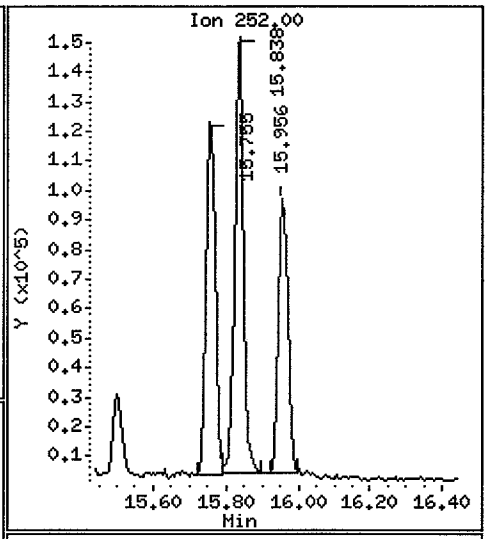
Concentration: 268.4 ug/kg

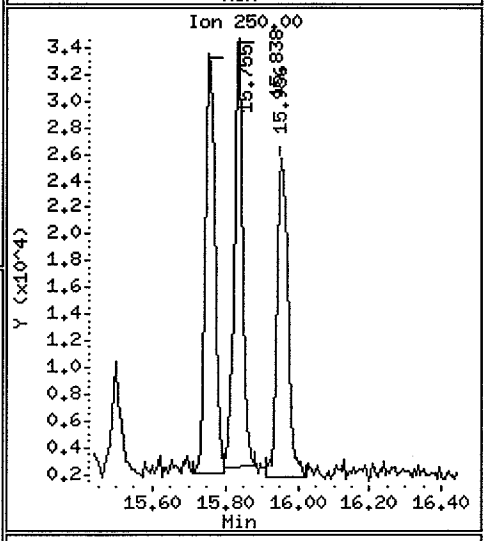


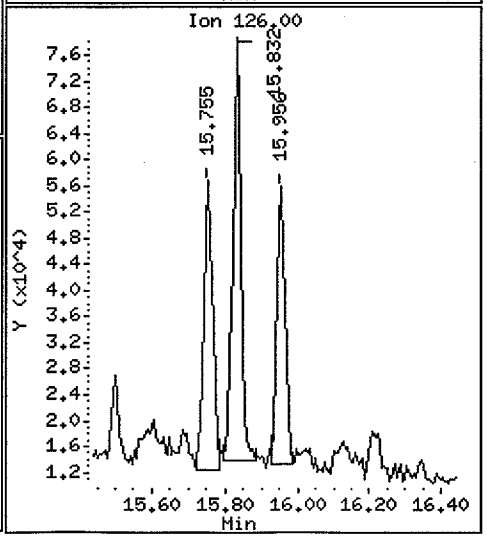












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-02-F**
Page 1 of 1 **DILUTION**

Lab Sample ID: JU43F
LIMS ID: 06-15850
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/13/06 15:59
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 42.5%
pH: 6.2

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	50	390	
91-57-6	2-Methylnaphthalene	50	220	
90-12-0	1-Methylnaphthalene	50	110	
208-96-8	Acenaphthylene	50	40	J
83-32-9	Acenaphthene	50	540	
86-73-7	Fluorene	50	400	
85-01-8	Phenanthrene	50	1,300	
120-12-7	Anthracene	50	220	
206-44-0	Fluoranthene	50	1,500	
129-00-0	Pyrene	50	1,400	
56-55-3	Benzo(a)anthracene	50	460	
218-01-9	Chrysene	50	650	
205-99-2	Benzo(b)fluoranthene	50	440	
207-08-9	Benzo(k)fluoranthene	50	350	
50-32-8	Benzo(a)pyrene	50	380	
193-39-5	Indeno(1,2,3-cd)pyrene	50	180	
53-70-3	Dibenz(a,h)anthracene	50	40	J
191-24-2	Benzo(g,h,i)perylene	50	230	
198-55-0	Perylene	50	250	
92-52-4	Biphenyl	50	< 50	U
581-42-0	2,6-Dimethylnaphthalene	50	150	
832-69-9	1-Methylphenanthrene	50	130	
192-97-2	Benzo(e)pyrene	50	280	
2245-38-7	2,3,5-Trimethylnaphthalene	50	110	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	82.3%
d14-Dibenzo(a,h)anthracen	62.0%

0727

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060913.b/ju43fdl.d
Lab Smp Id: JU43FDL — Client Smp ID: T4-B414-02-F
Inj Date : 13-SEP-2006 15:59
Operator : VTS — Inst ID: nt1.i
Smp Info : JU43F,10
Misc Info : 06-15850
Comment : 1ul Injection
Method : /chem3/nt1.i/20060913.b/simpna.m
Meth Date : 14-Sep-2006 09:42 van — Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 — Cal File: ic0904f.d
Als bottle: 3
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	17.60000	Weight of sample extracted (g)
M	42.50000	% 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	6.811	6.807	(1.000)	314160	2.00000		
	2 Naphthalene	128	6.835	6.831	(1.003)	116994	0.77513	383.0	
$	3 2-Methylnaphthalene-d10	152	7.567	7.563	(1.111)	19246	0.24706	122.1	
	4 2-Methylnaphthalene	142	7.603	7.599	(1.116)	36286	0.45233	223.5	
	5 1-Methylnaphthalene	142	7.733	7.729	(1.135)	18756	0.21546	106.5	
	7 Acenaphthylene	152	8.690	8.686	(0.980)	11300	0.08479	41.89	J
*	8 Acenaphthene-d10	164	8.868	8.864	(1.000)	162213	2.00000		
	9 Acenaphthene	153	8.909	8.905	(1.005)	86740	1.07765	532.4	
	10 Dibenzofuran	168	9.098	9.094	(1.026)	51584	~~0.45094~~	222.8	NR
	11 Fluorene	166	9.518	9.514	(1.073)	70102	0.80274	396.6	
*	15 Phenanthrene-d10	188	10.676	10.672	(1.000)	207926	2.00000		
	16 Phenanthrene	178	10.706	10.702	(1.003)	303938	2.69664	1332	
	17 Anthracene	178	10.765	10.761	(1.008)	51379	0.45198	223.3	
	19 Fluoranthene	202	12.201	12.197	(1.143)	298054	3.09806	1531	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.485	12.481	(0.893)	302399	2.71620	1342	
	22 Benzo(a)anthracene	228	13.968	13.964	(0.999)	88840	0.93675	462.8	
*	23 Chrysene-d12	240	13.986	13.982	(1.000)	158186	2.00000		
	24 Chrysene	228	14.021	14.017	(1.003)	118077	1.32493	654.6	
	28 Benzo(b)fluoranthene	252	15.339	15.335	(0.964)	81106	0.87544	432.5	
	29 Benzo(k)fluoranthene	252	15.369	15.365	(0.966)	67385	0.69642	344.1	
	30 Benzo(a)pyrene	252	15.824	15.814	(0.995)	63307	0.75760	374.3	
*	31 Perylene-d12	264	15.907	15.897	(1.000)	163605	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.816	17.806	(1.120)	33175	0.36982	182.7	
$	32 Dibenz(a,h)anthrancene-d14	292	17.745	17.729	(1.116)	9985	0.18624	92.02	
	34 Dibenz(a,h)anthracene	278	17.804	17.794	(1.119)	6147	0.08455	41.77(M)	J
	35 Benzo(g,h,i)perylene	276	18.389	18.367	(1.156)	36531	0.46079	227.7	
	48 Biphenyl	154	8.141	8.137	(0.918)	6679	0.06640	32.81	J
	49 2,6-Dimethylnaphthalene	156	8.336	8.332	(0.940)	22801	0.30007	148.3	
	50 2,3,5-Trimethylnaphthalene	170	9.358	9.354	(1.055)	13010	0.21674	107.1	
	51 1-Methylphenanthrene	192	11.480	11.476	(0.821)	19749	0.26451	130.7	
	52 Benzo(e)pyrene	252	15.747	15.737	(0.990)	53086	0.57025	281.7	
	53 Perylene	252	15.948	15.938	(1.003)	43363	0.49920	246.6	

QC Flag Legend

M - Compound response manually integrated.

VTS

9.14.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43fdl.d
Lab Smp Id: JU43FDL
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15850

Calibration Date: 13-SEP-2006
Calibration Time: 10:18
Client Smp ID: T4-B414-02-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	337011	168506	674022	314160	-6.78
8 Acenaphthene-d10	171704	85852	343408	162213	-5.53
15 Phenanthrene-d10	223924	111962	447848	207926	-7.14
23 Chrysene-d12	172575	86288	345150	158186	-8.34
31 Perylene-d12	173129	86564	346258	163605	-5.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.06
8 Acenaphthene-d10	8.86	8.36	9.36	8.87	0.04
15 Phenanthrene-d10	10.67	10.17	11.17	10.68	0.04
23 Chrysene-d12	13.98	13.48	14.48	13.99	0.03
31 Perylene-d12	15.90	15.40	16.40	15.91	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

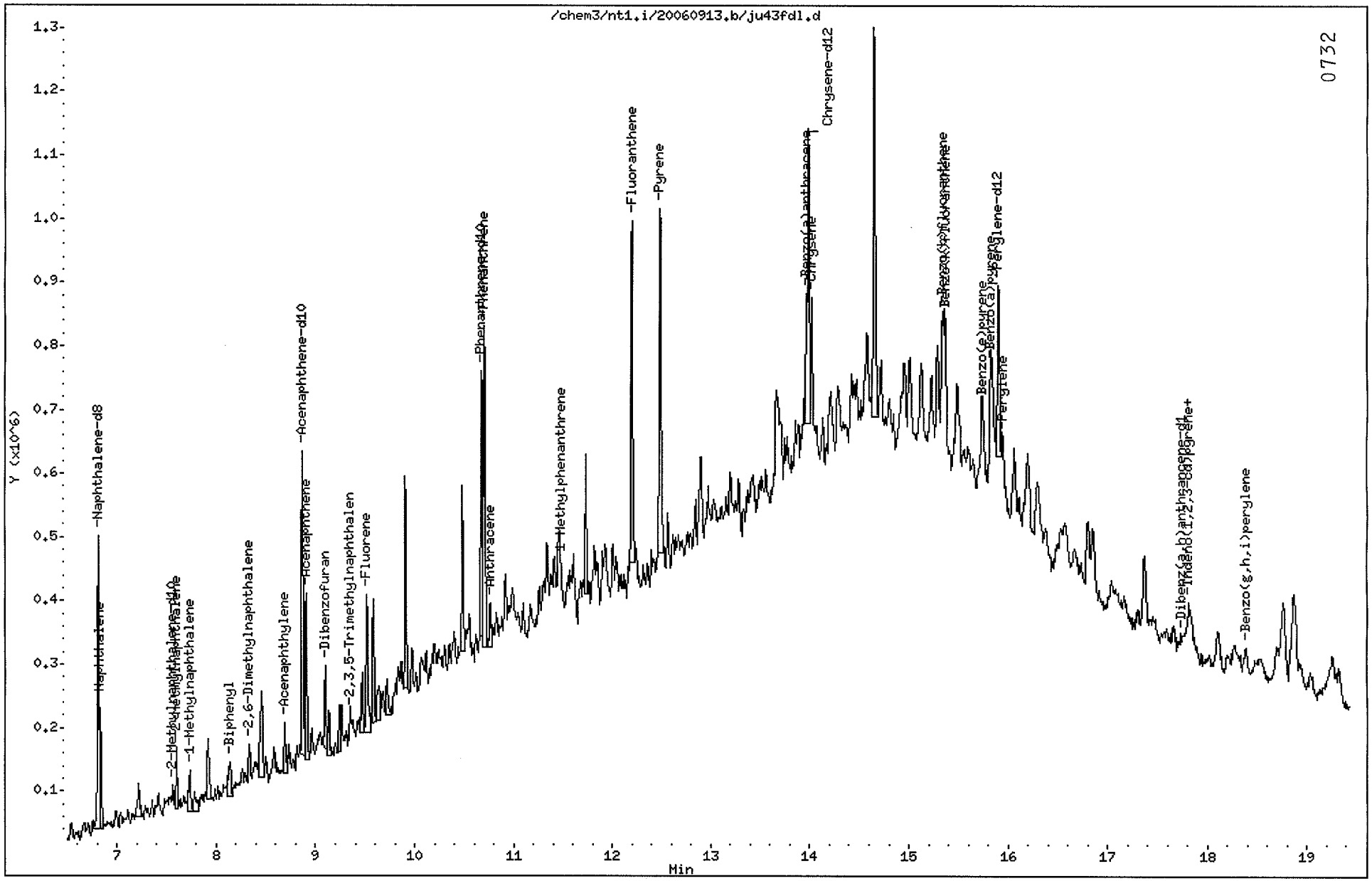
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43FDL
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15850

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-02-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.2	122.1	82.35	32-97
$ 32 Dibenz(a,h)anthran	148.2	92.02	62.08	21-105

Data File: /chem3/nt1.i/20060913.b/ju43fdl.d
Date : 13-SEP-2006 15:59
Client ID: T4-B414-02-F
Sample Info: JU43F,10
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

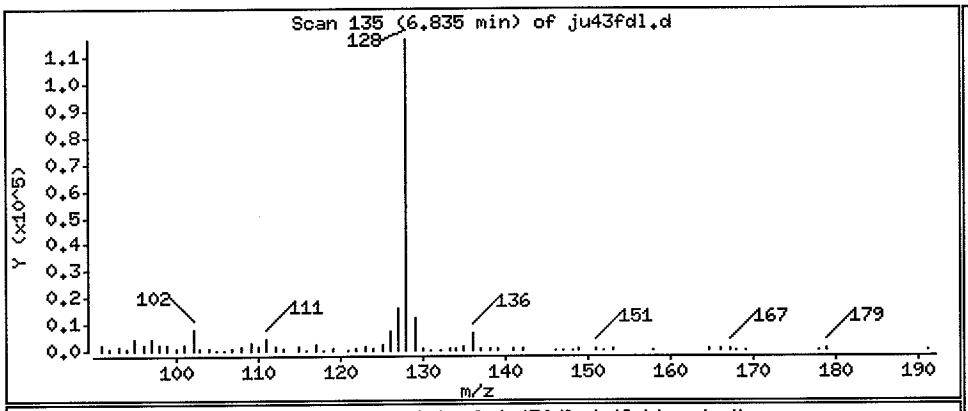
Operator: VTS

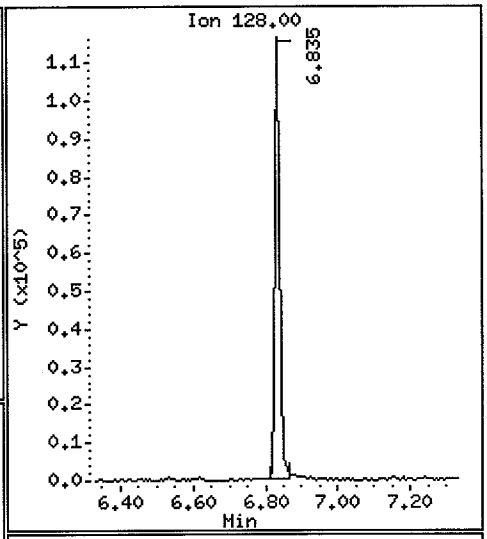
Column phase: ZB-5

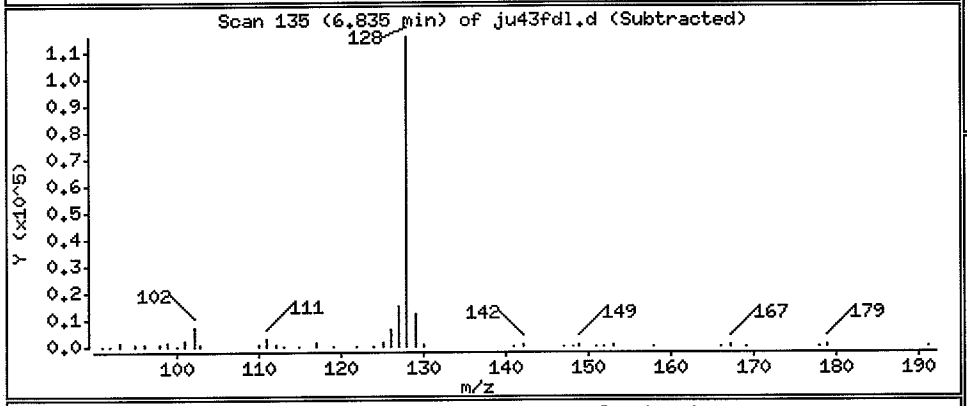
Column diameter: 0.25

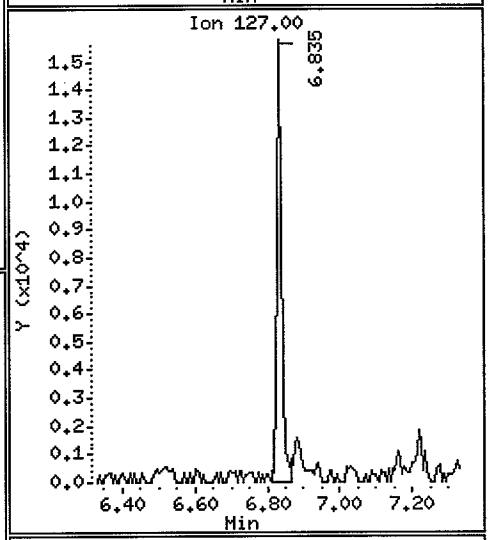
2 Naphthalene

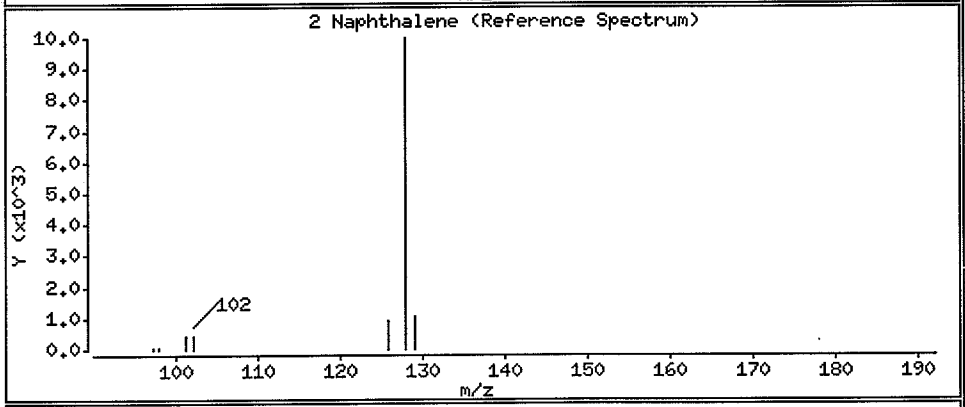
Concentration: 383.0 ug/kg

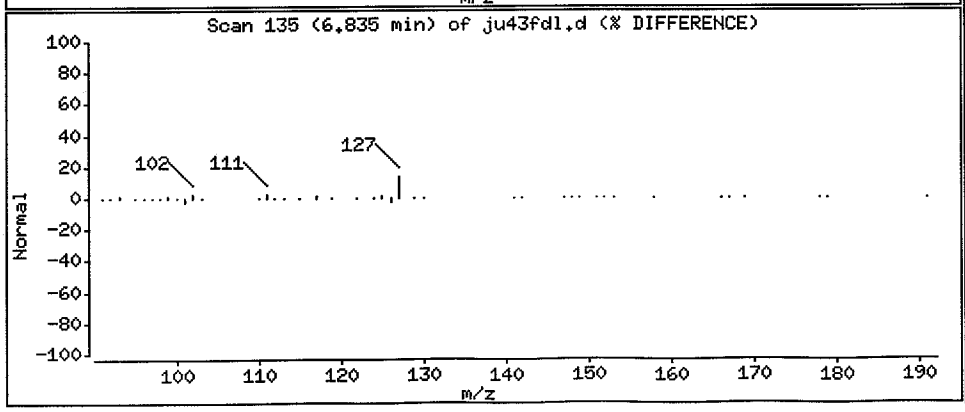


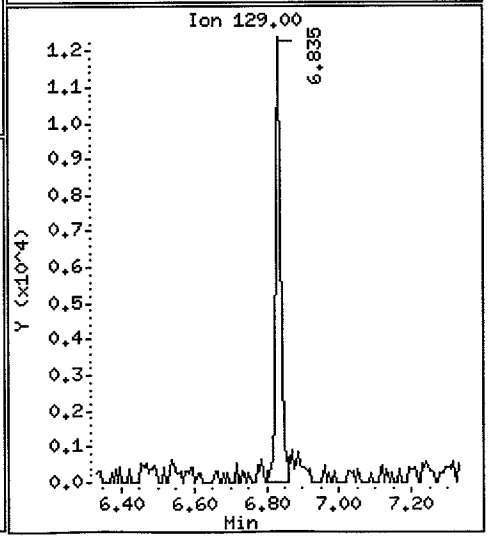












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

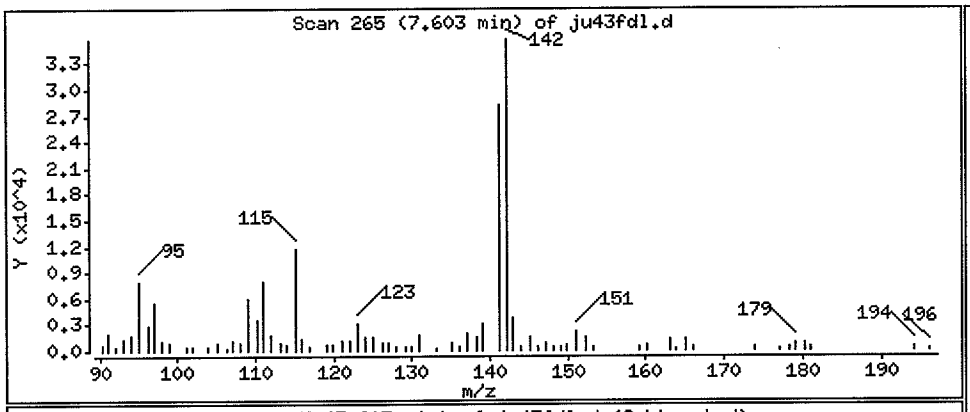
Operator: VTS

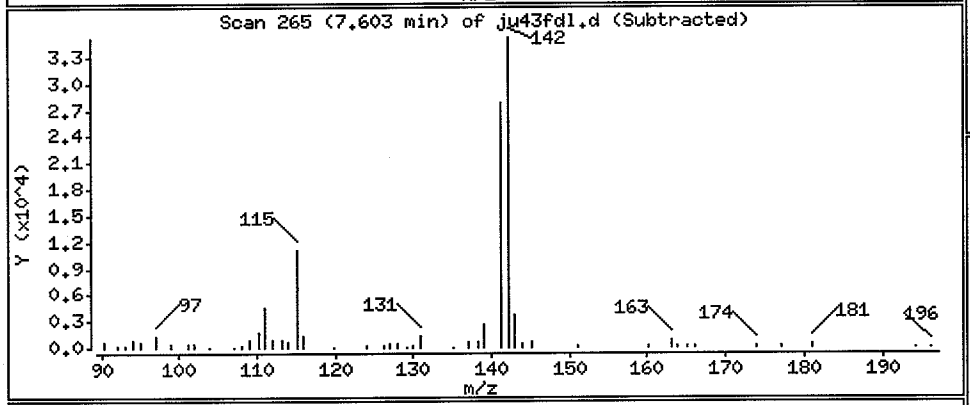
Column phase: ZB-5

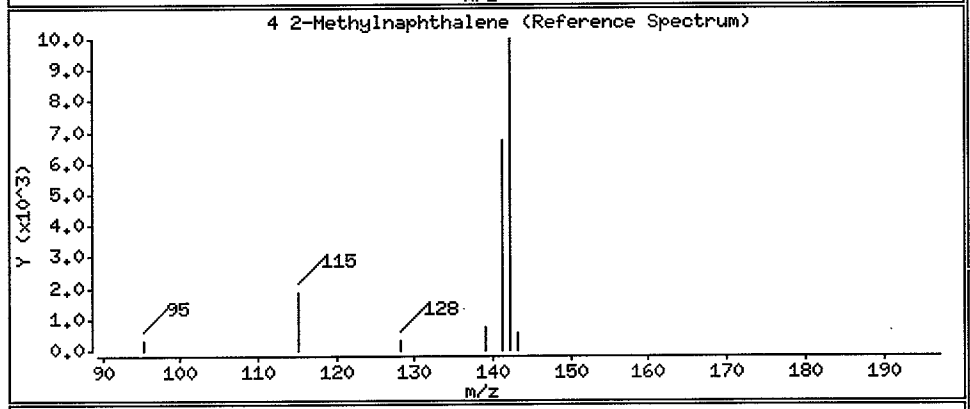
Column diameter: 0.25

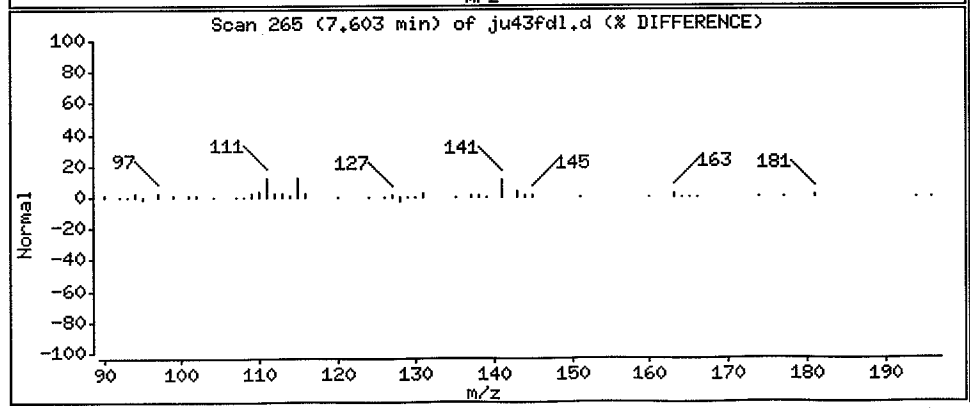
4 2-Methylnaphthalene

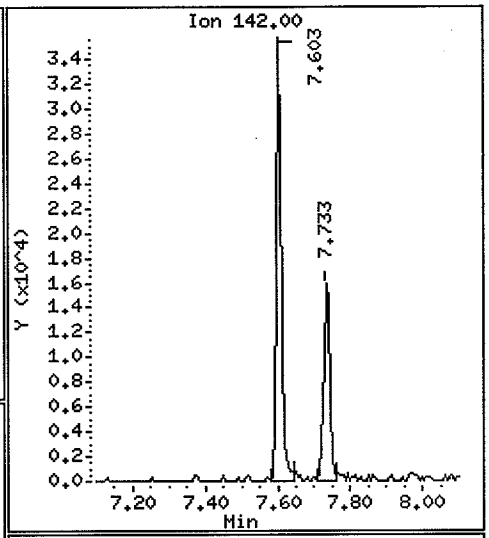
Concentration: 223.5 ug/kg

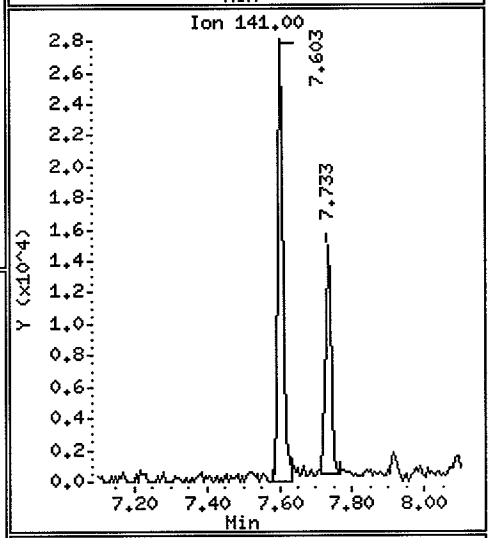


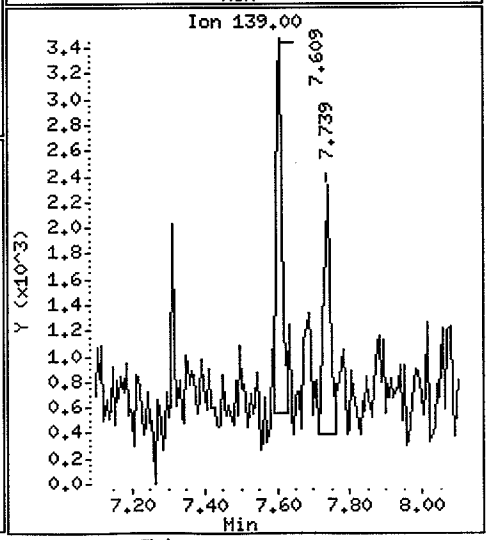












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

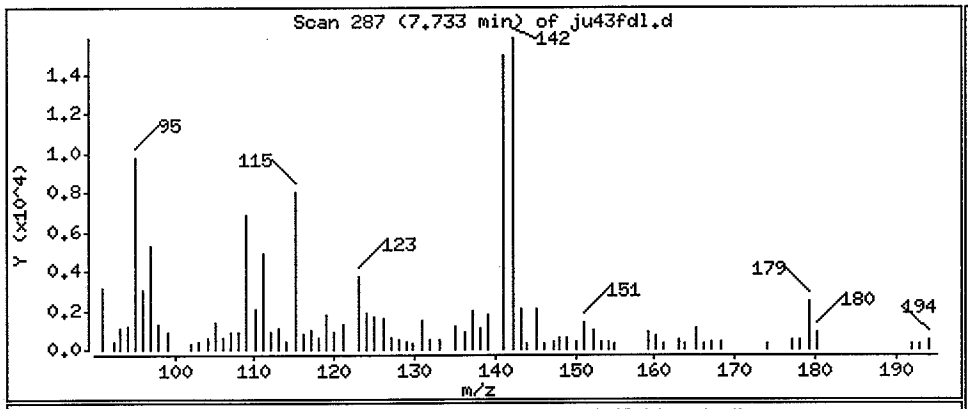
Operator: VTS

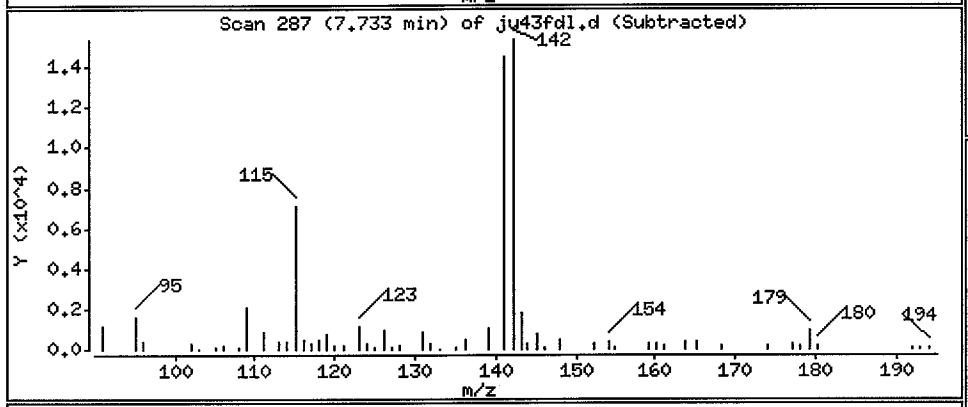
Column phase: ZB-5

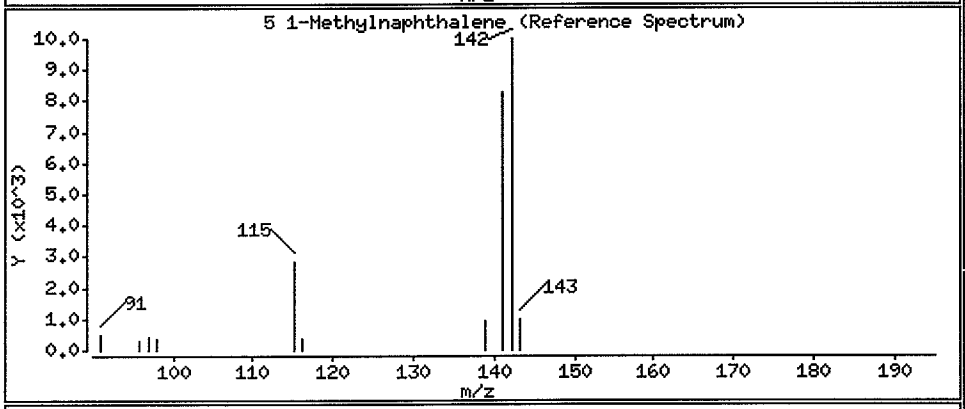
Column diameter: 0.25

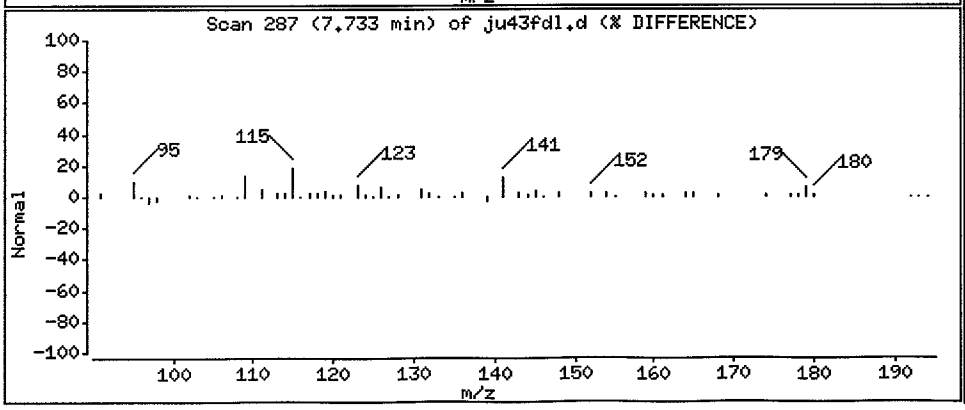
5 1-Methylnaphthalene

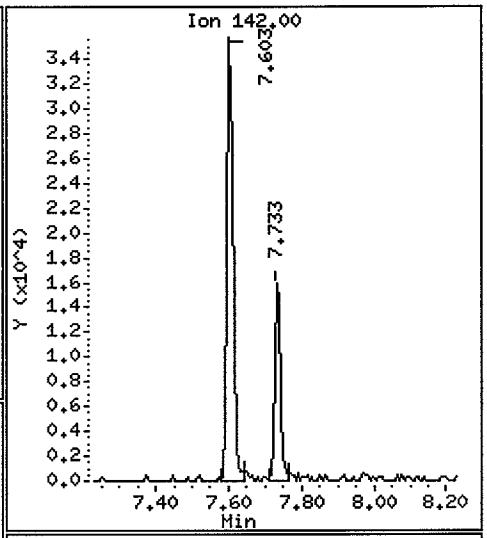
Concentration: 106.5 ug/kg

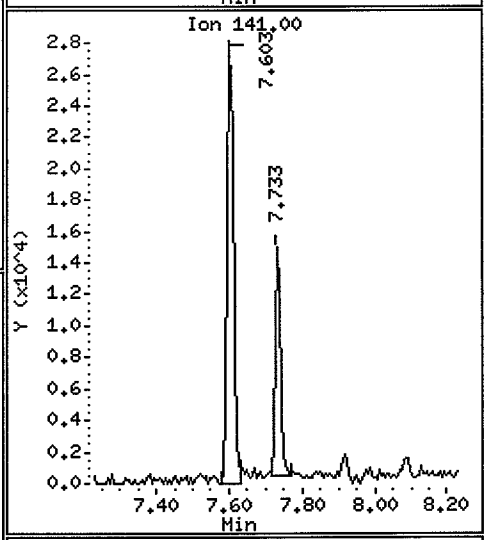


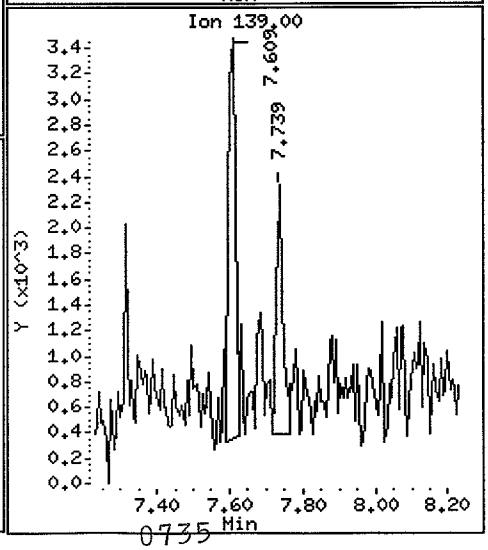












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

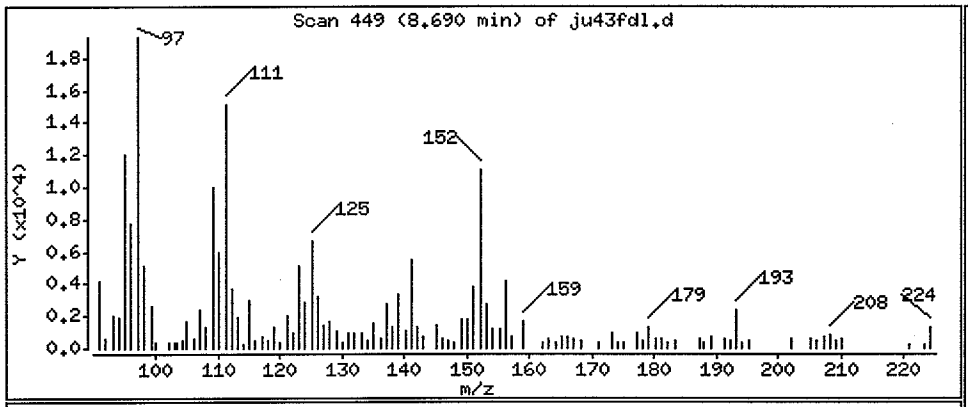
Operator: VTS

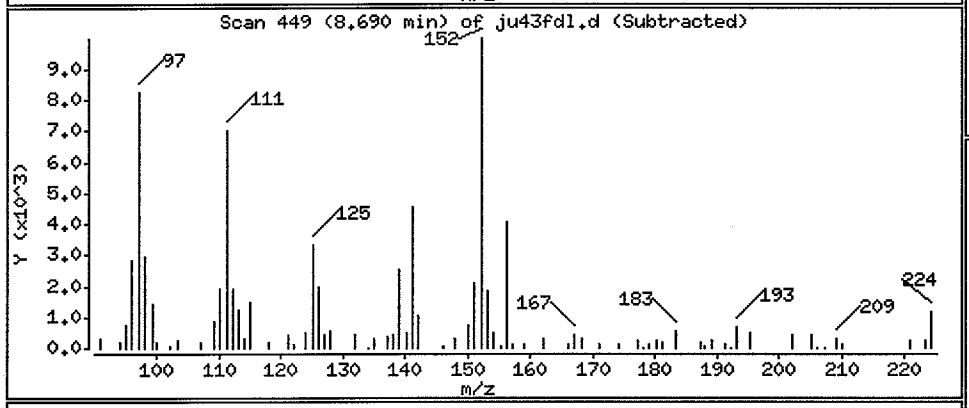
Column phase: ZB-5

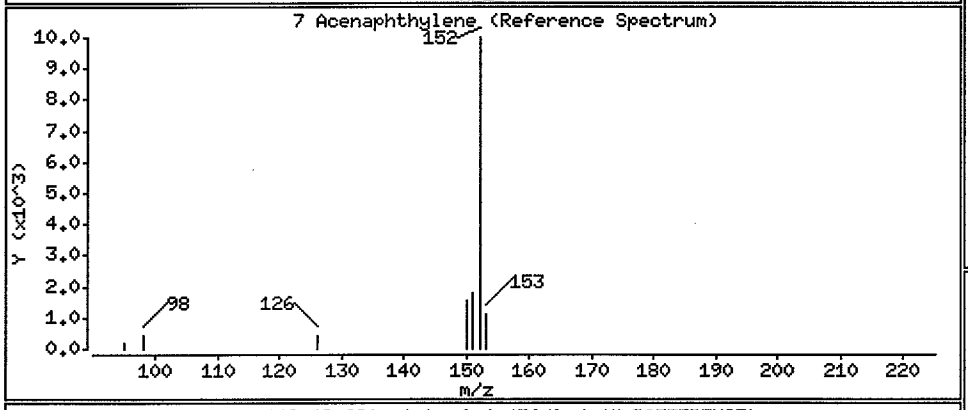
Column diameter: 0.25

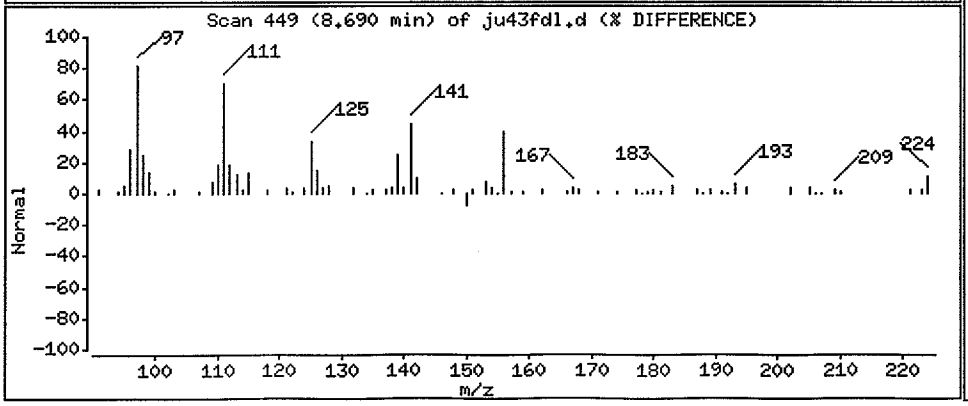
7 Acenaphthylene

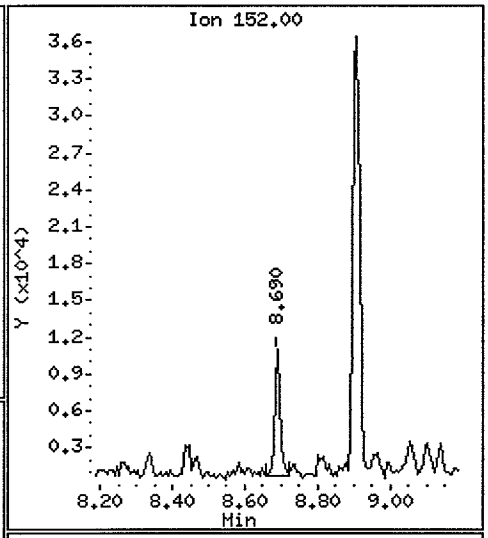
Concentration: 41.89 ug/kg

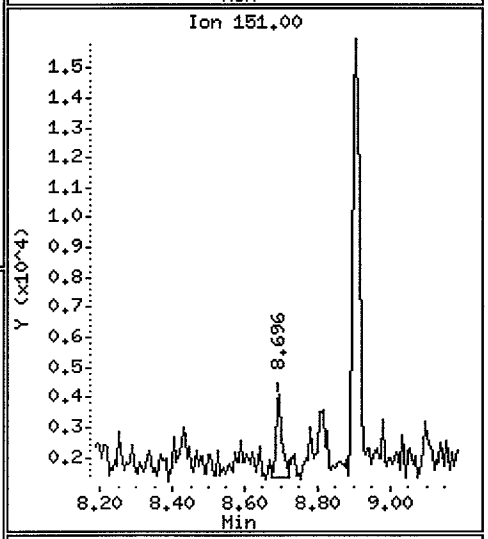


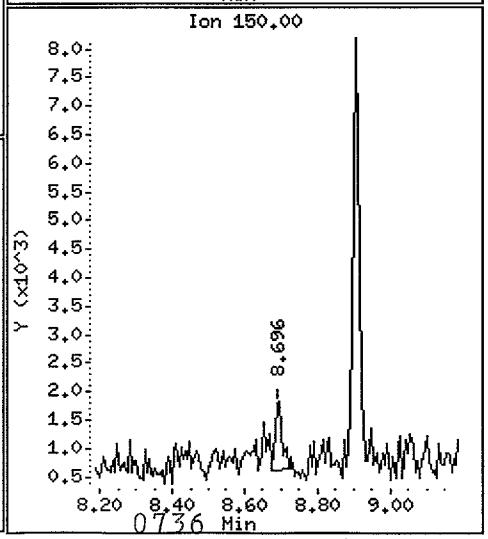












0736

Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

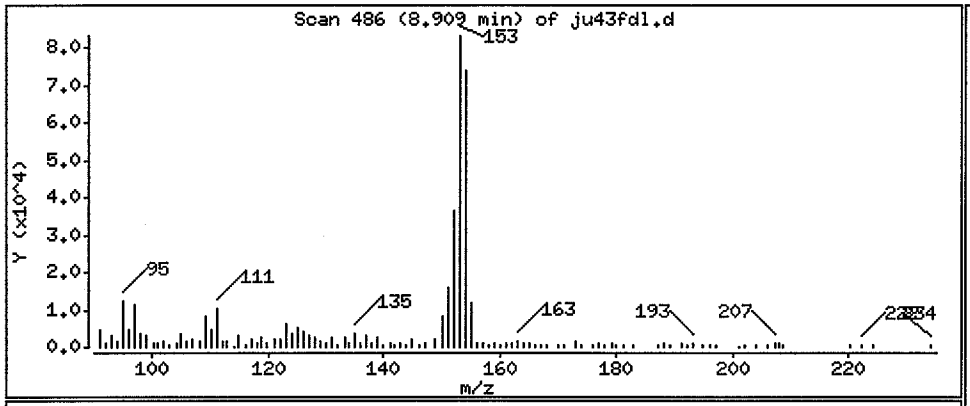
Operator: VTS

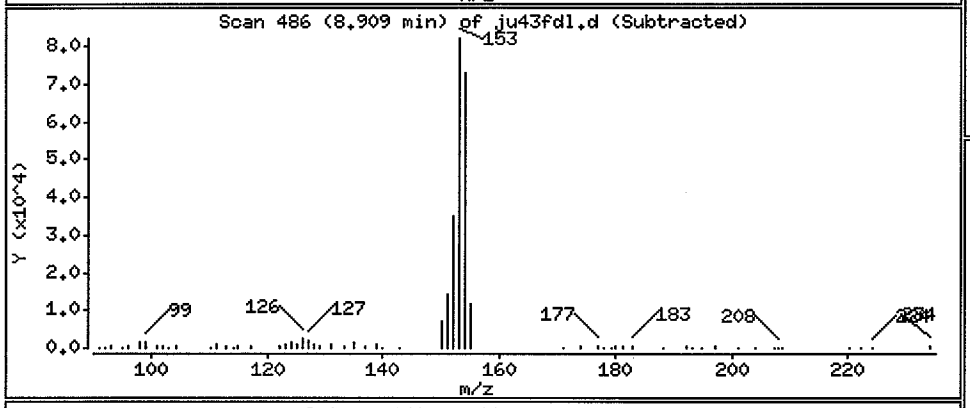
Column phase: ZB-5

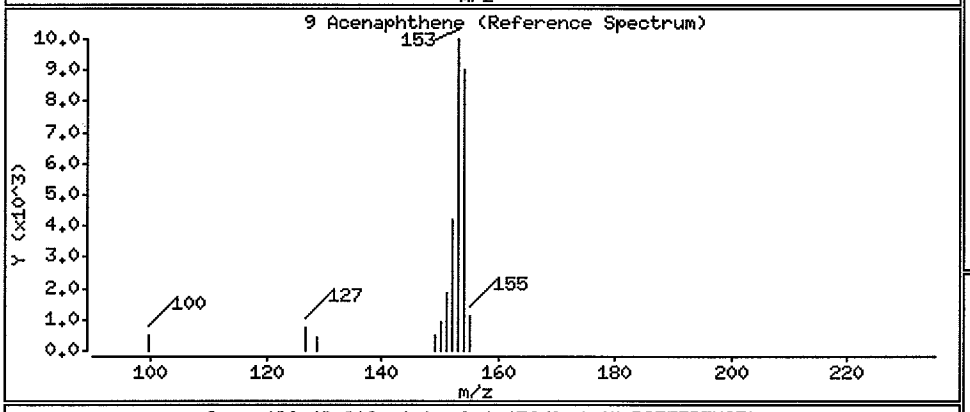
Column diameter: 0.25

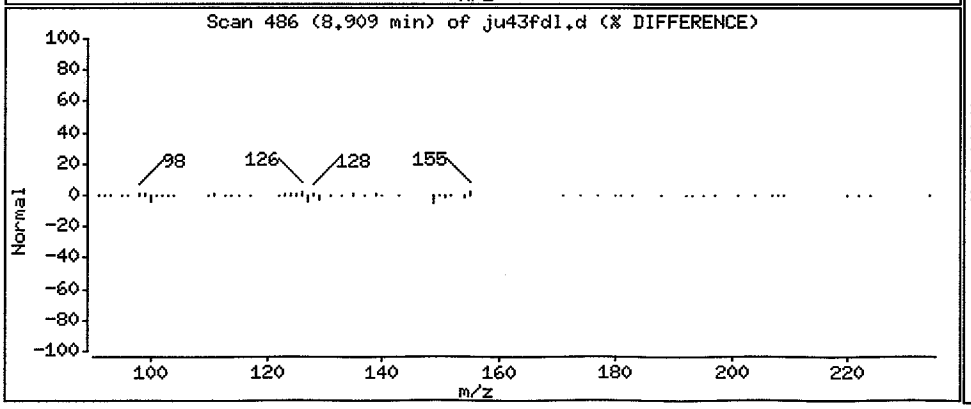
9 Acenaphthene

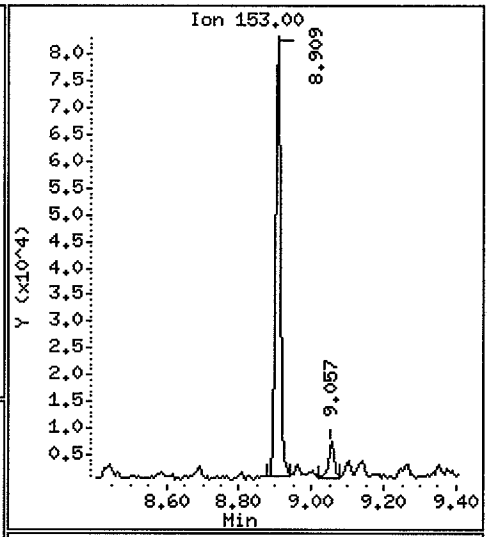
Concentration: 532.4 ug/kg

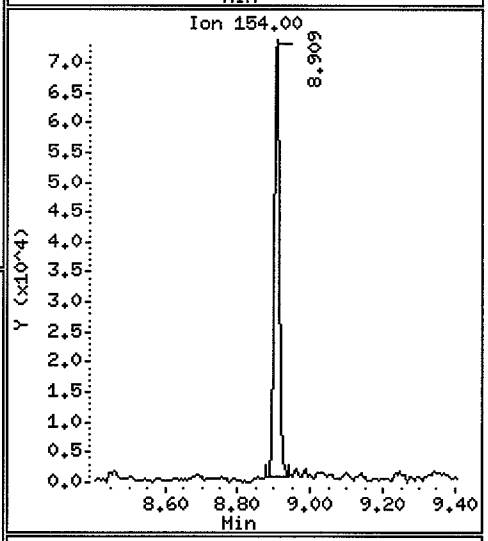


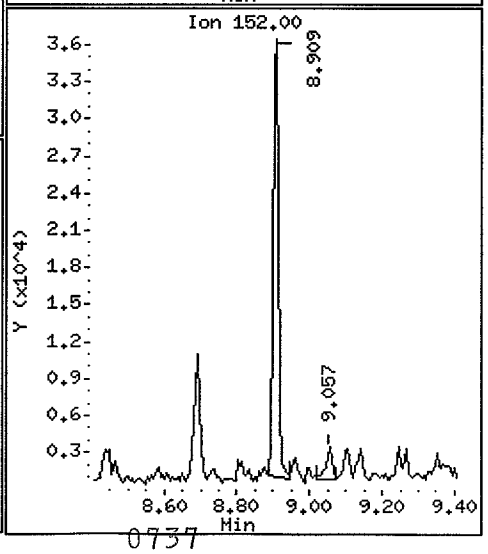












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

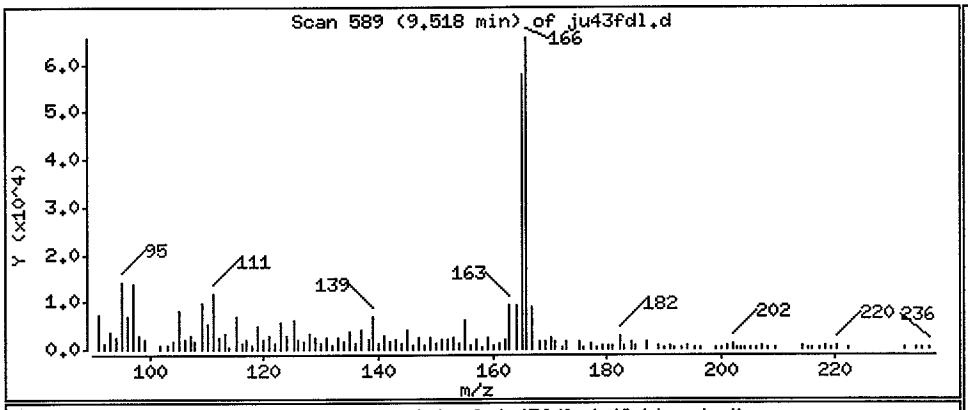
Operator: VTS

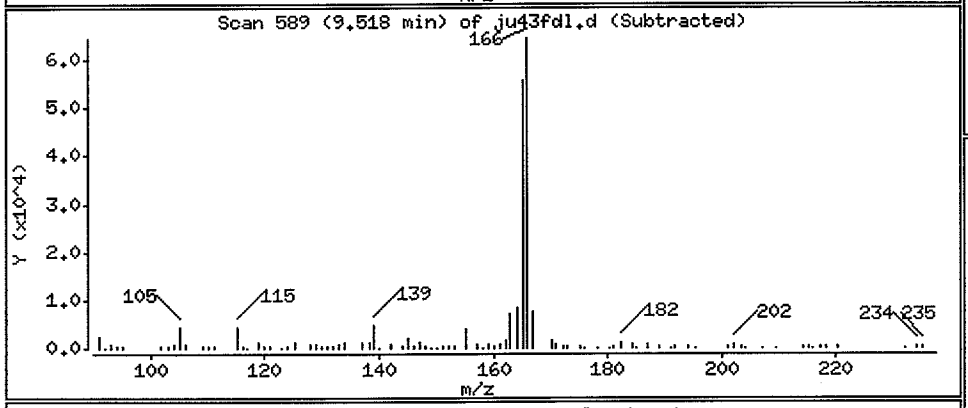
Column phase: ZB-5

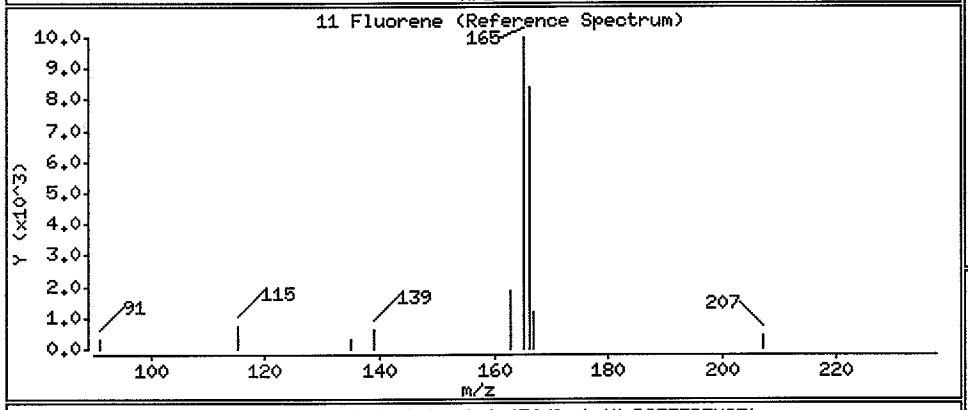
Column diameter: 0.25

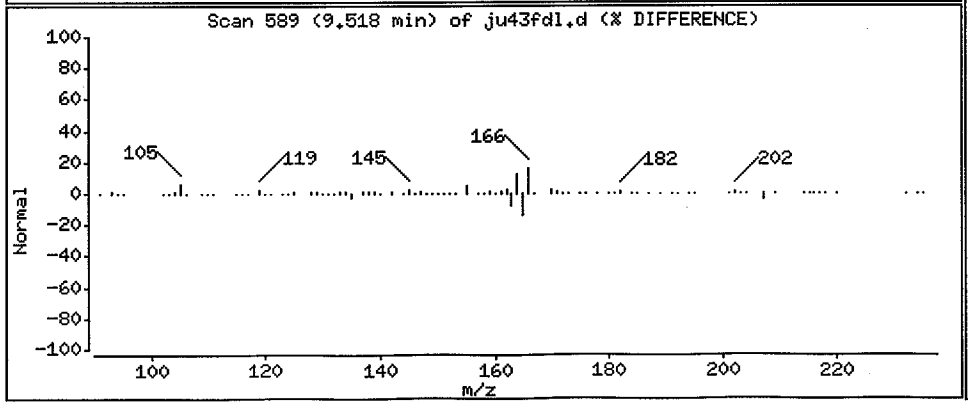
11 Fluorene

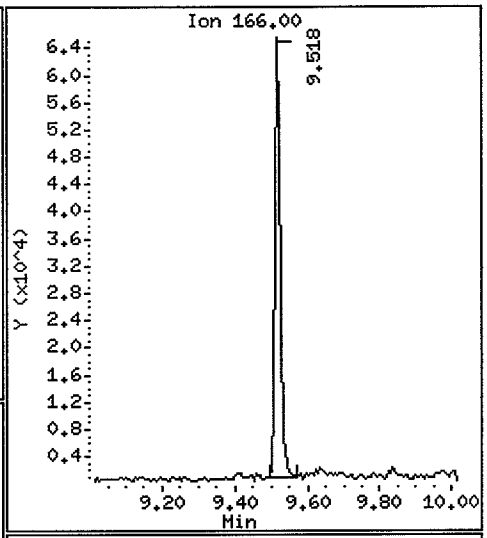
Concentration: 396.6 ug/kg

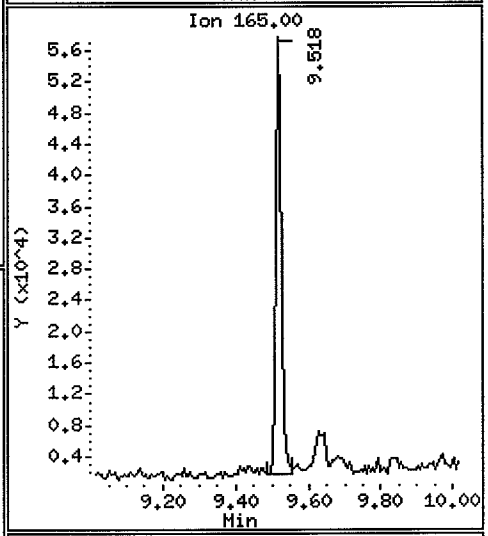


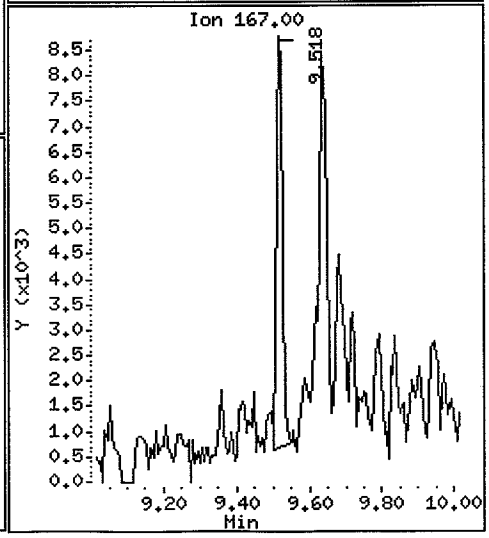












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

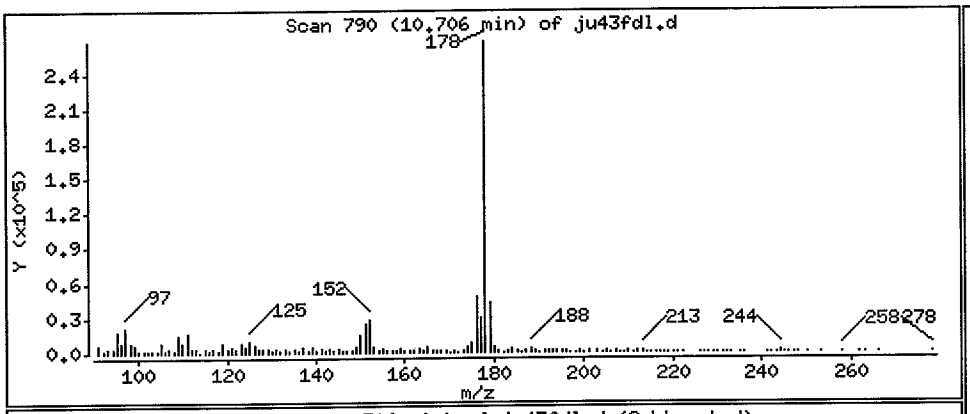
Operator: VTS

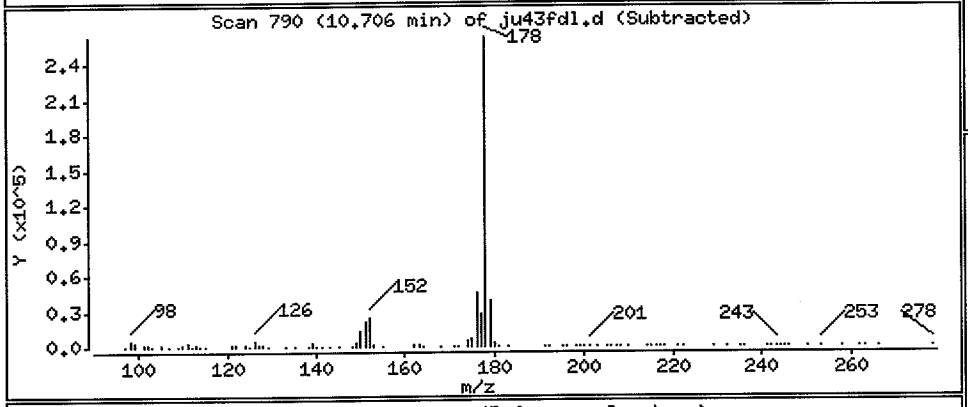
Column phase: ZB-5

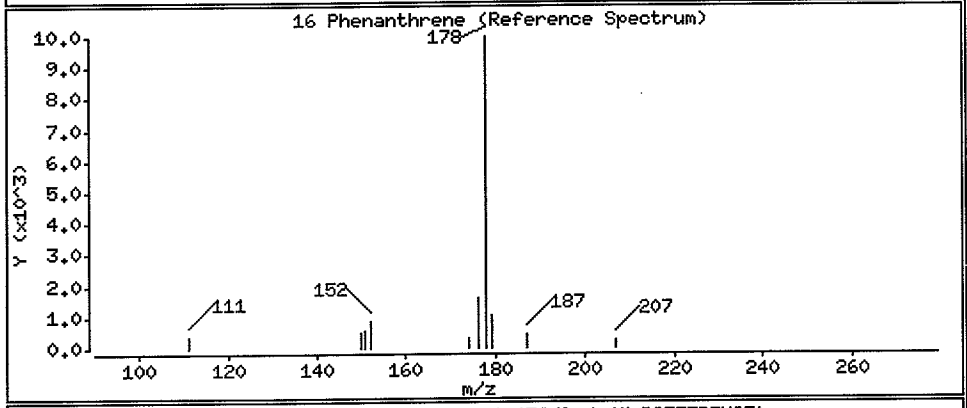
Column diameter: 0.25

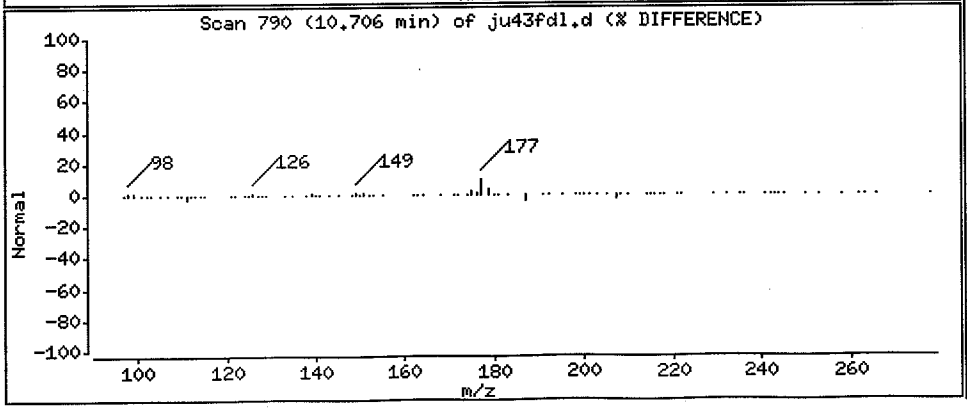
16 Phenanthrene

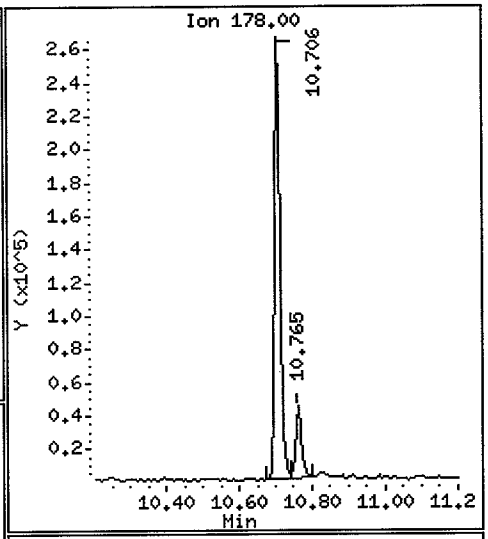
Concentration: 1332 ug/kg

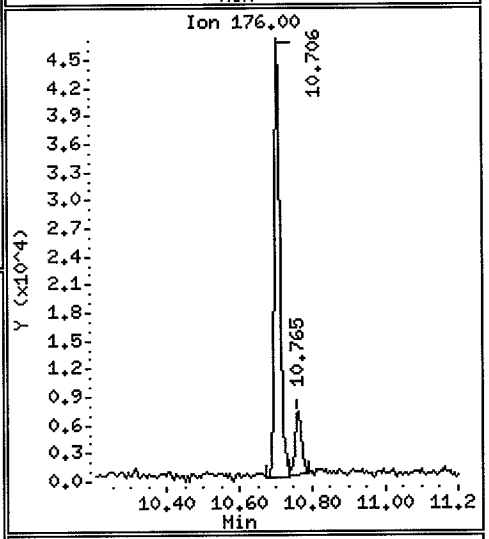


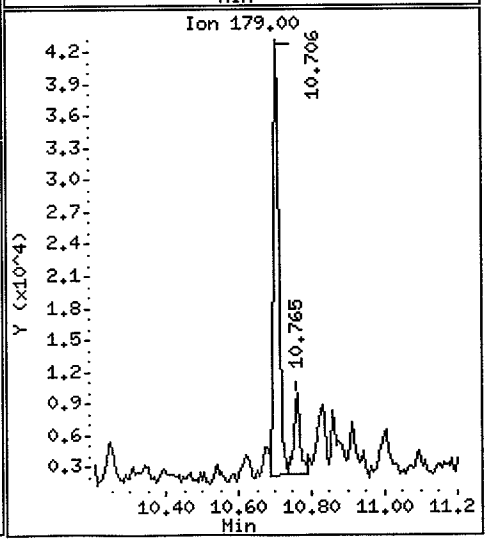












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

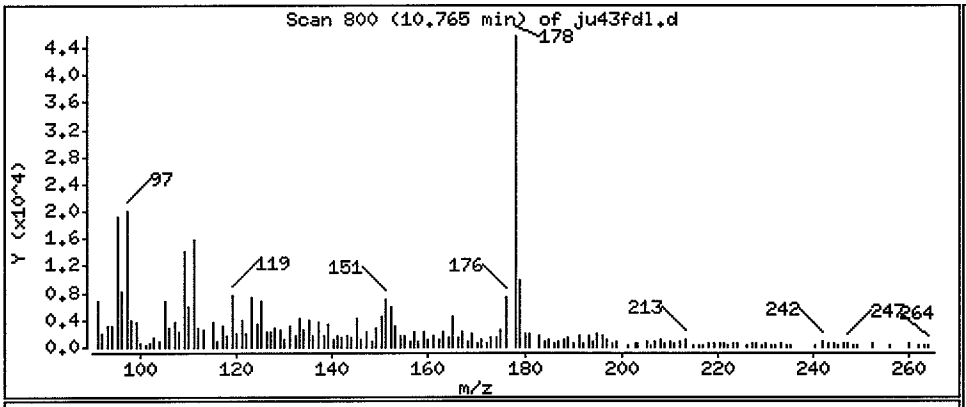
Operator: VTS

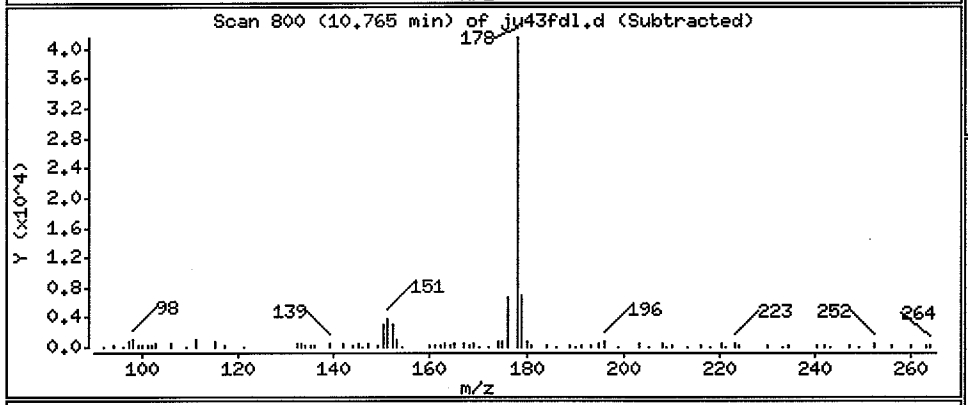
Column phase: ZB-5

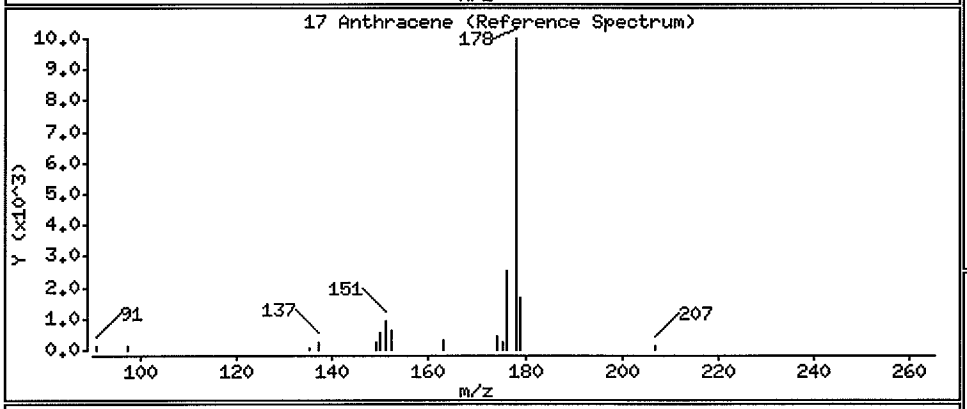
Column diameter: 0.25

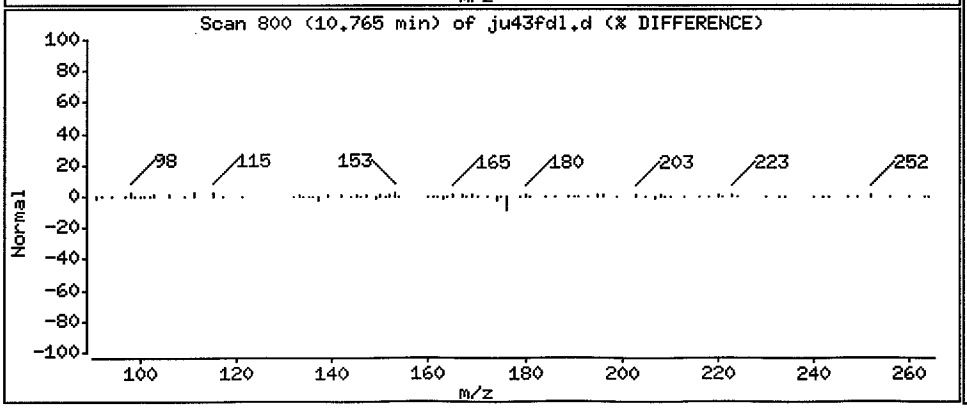
17 Anthracene

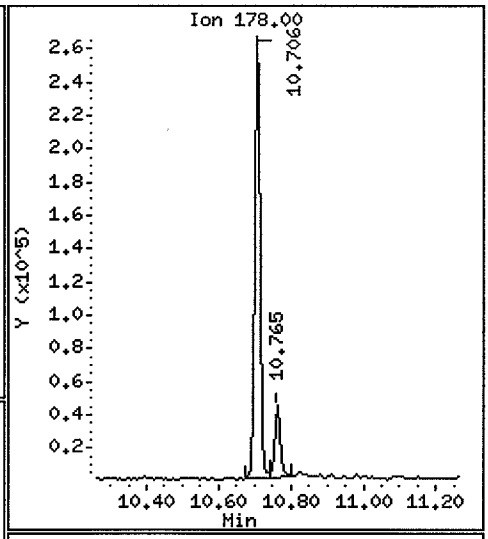
Concentration: 223.3 ug/kg

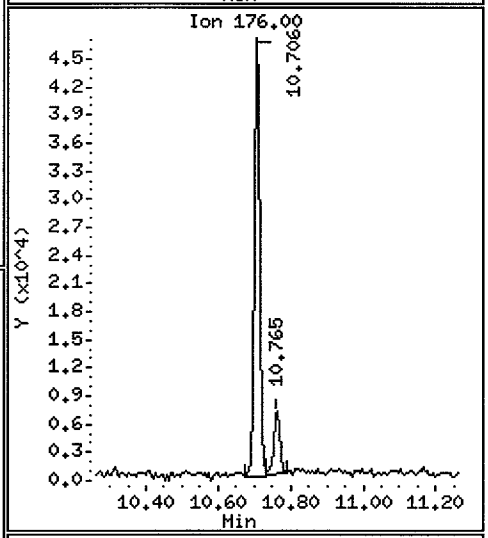


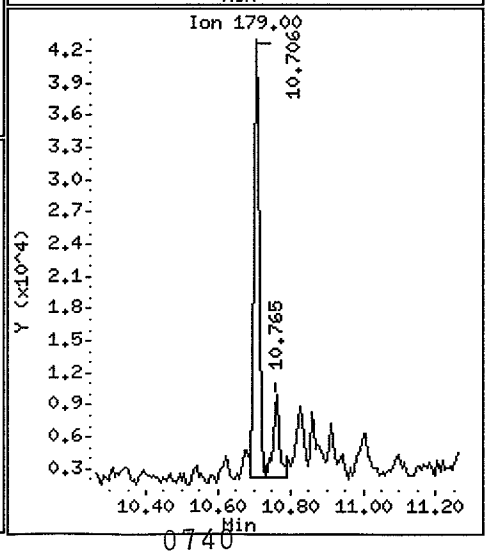












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

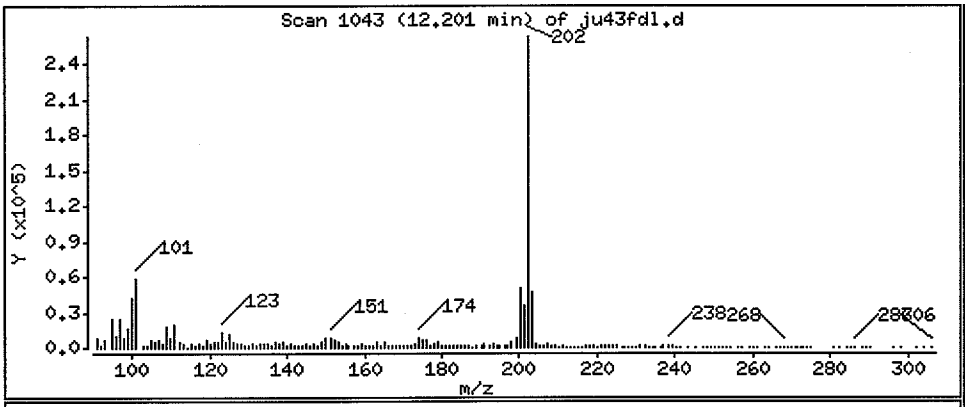
Operator: VTS

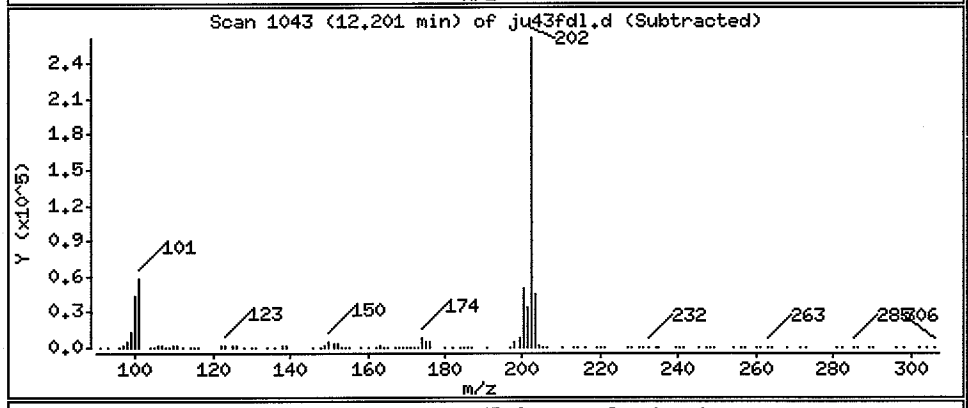
Column phase: ZB-5

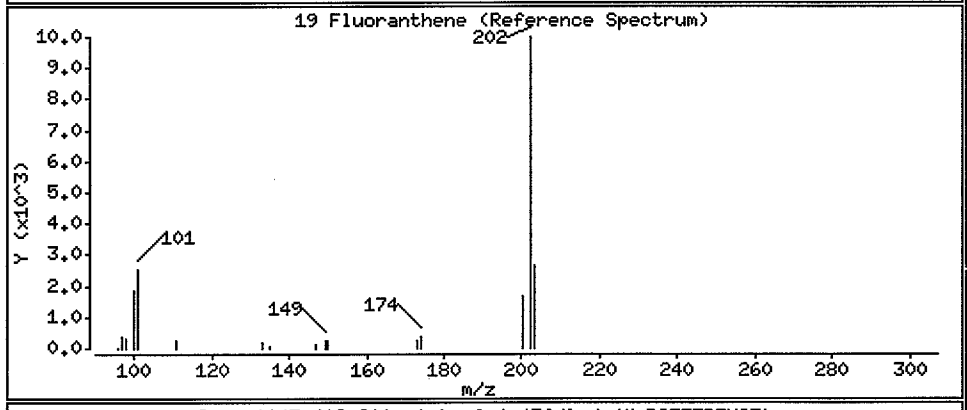
Column diameter: 0.25

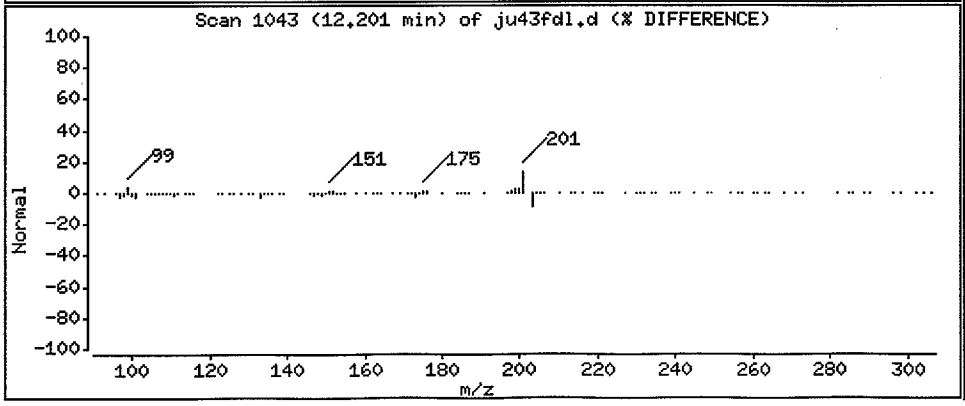
19 Fluoranthene

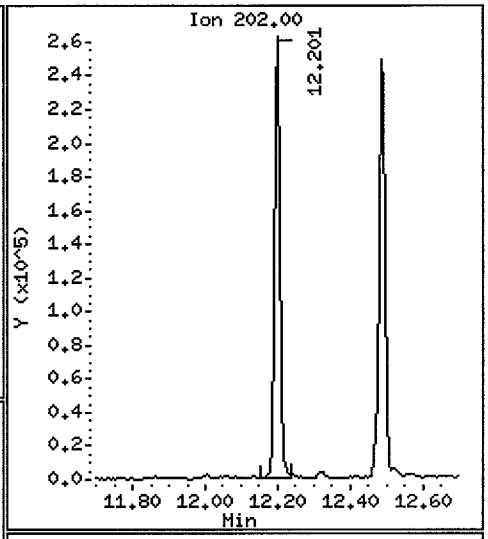
Concentration: 1531 ug/kg

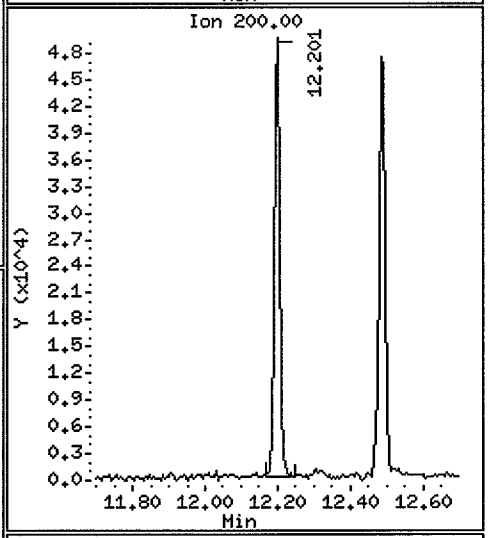


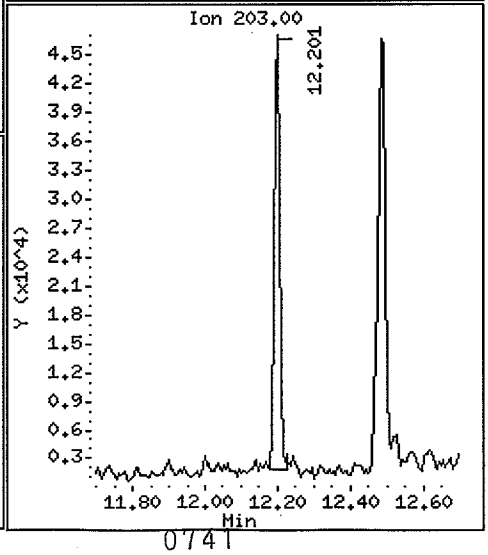












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

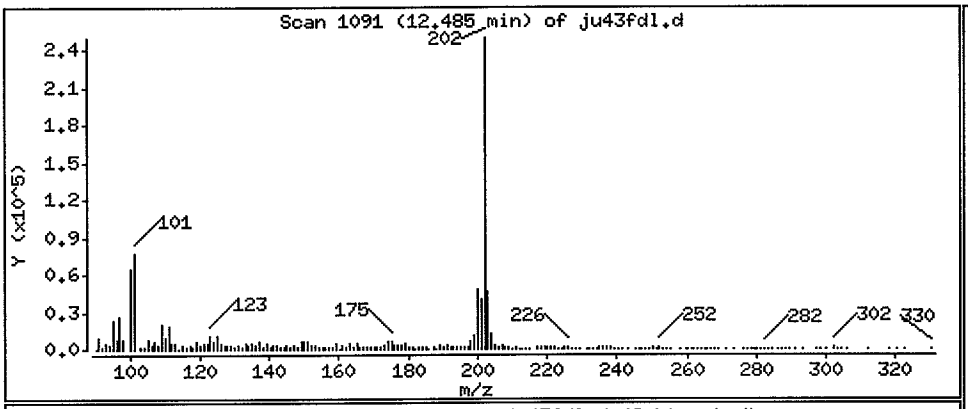
Operator: VTS

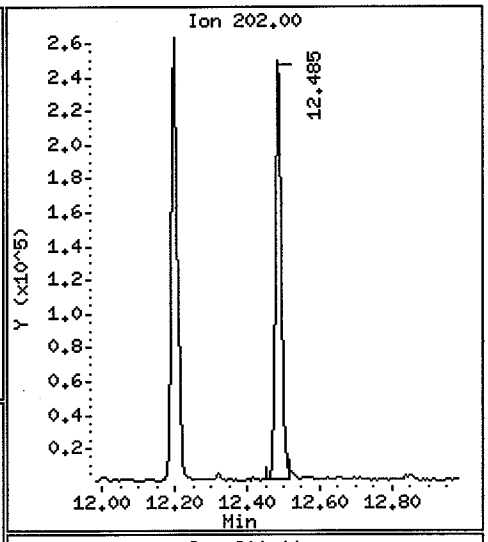
Column phase: ZB-5

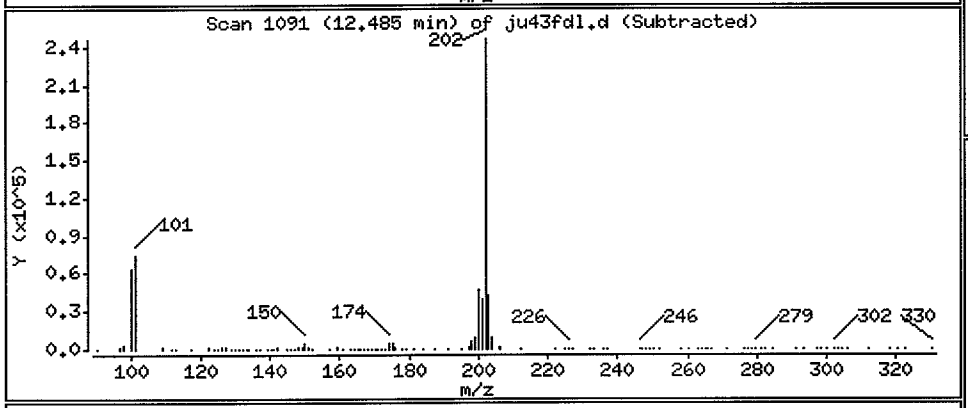
Column diameter: 0.25

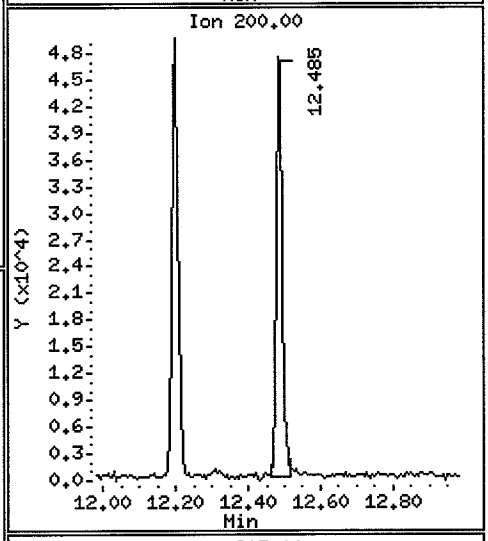
20 Pyrene

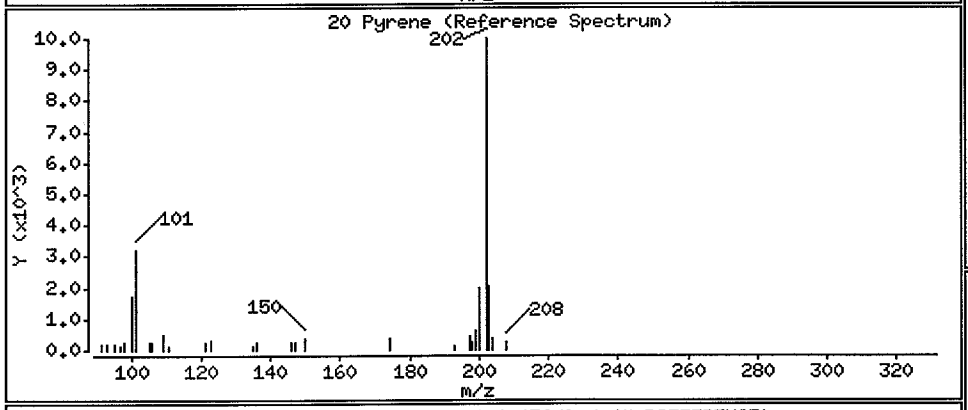
Concentration: 1342 ug/kg

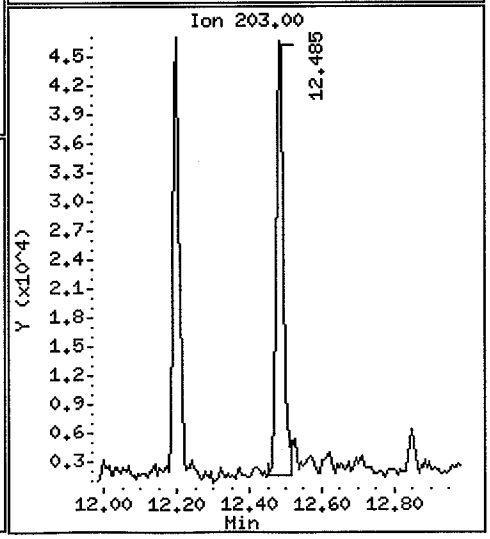


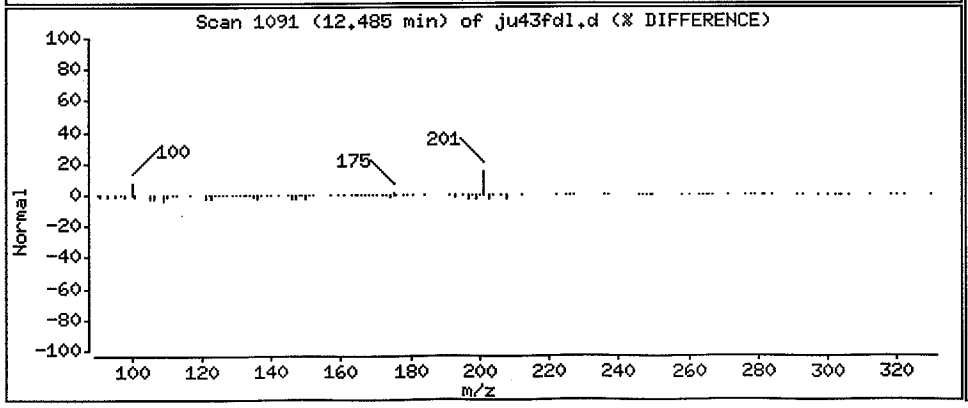












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

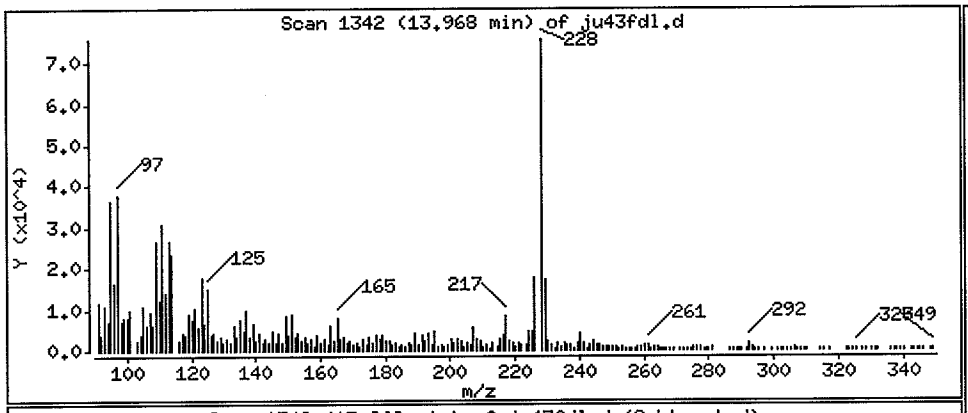
Operator: VTS

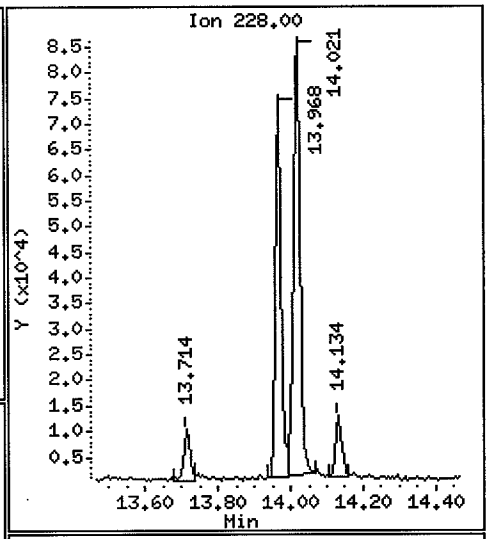
Column phase: ZB-5

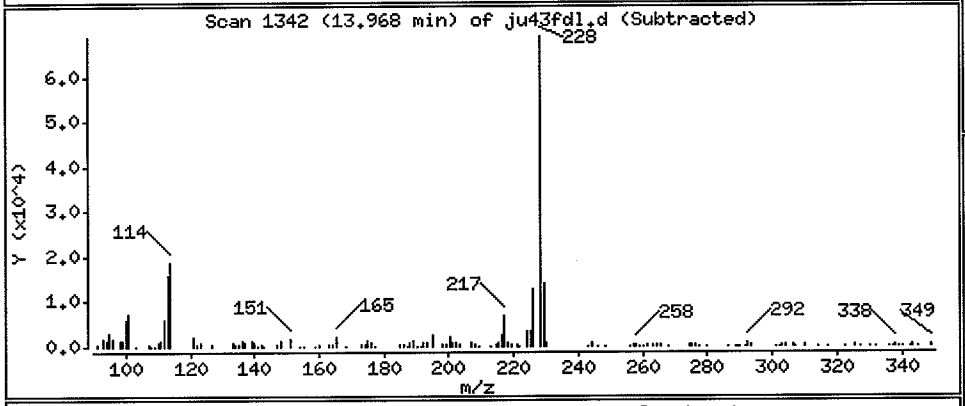
Column diameter: 0.25

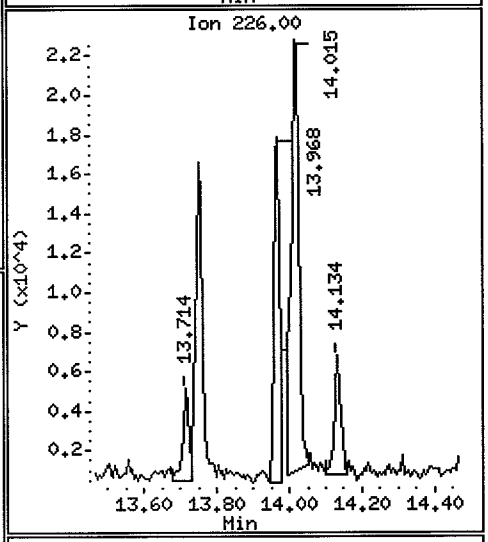
22 Benzo(a)anthracene

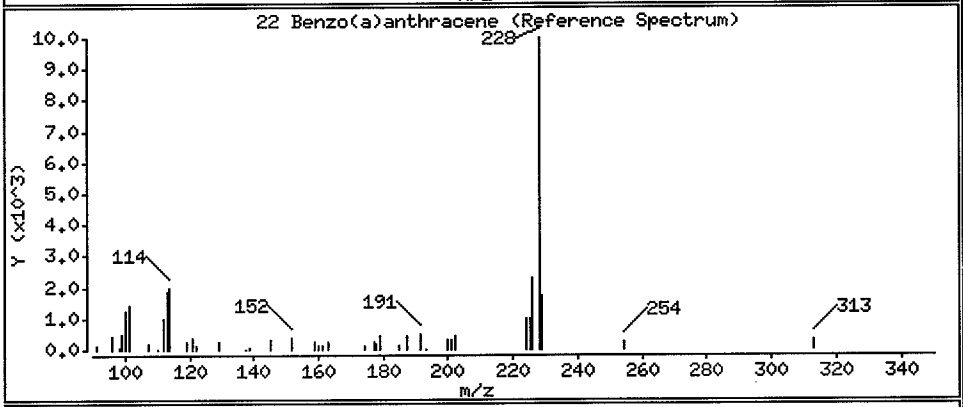
Concentration: 462.8 ug/kg

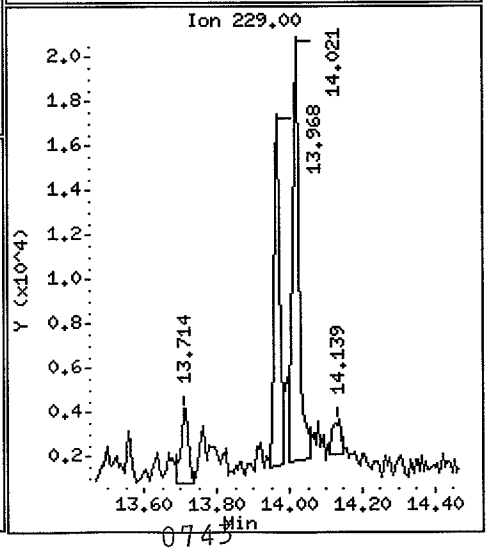


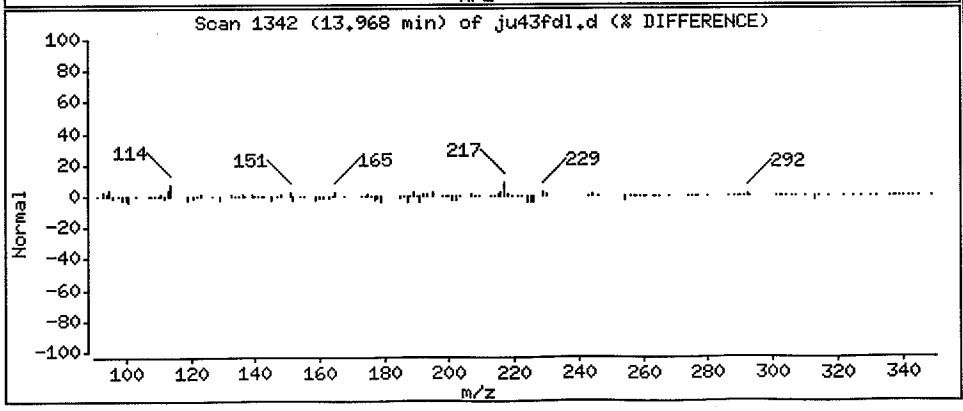












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

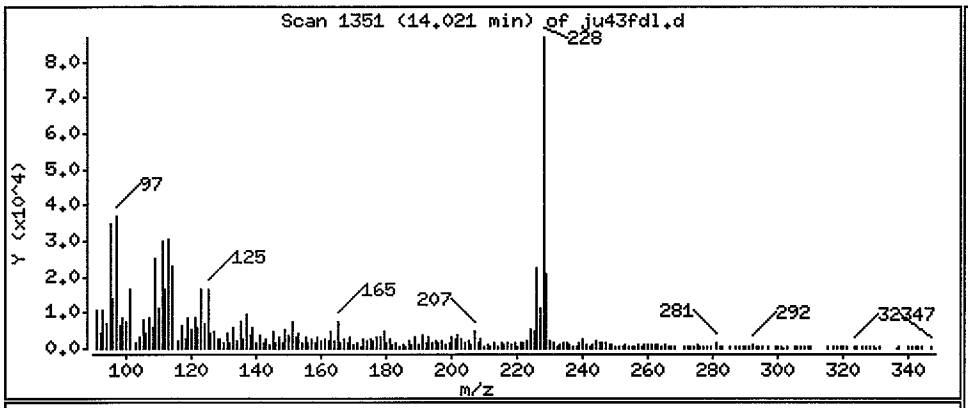
Operator: VTS

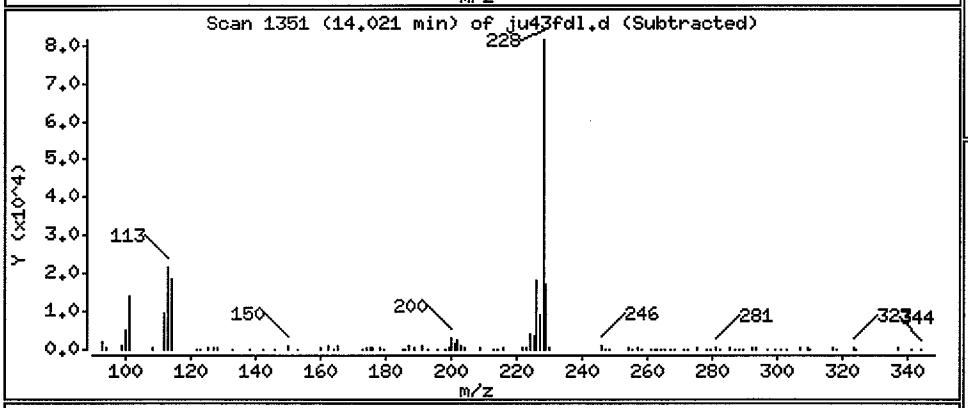
Column phase: ZB-5

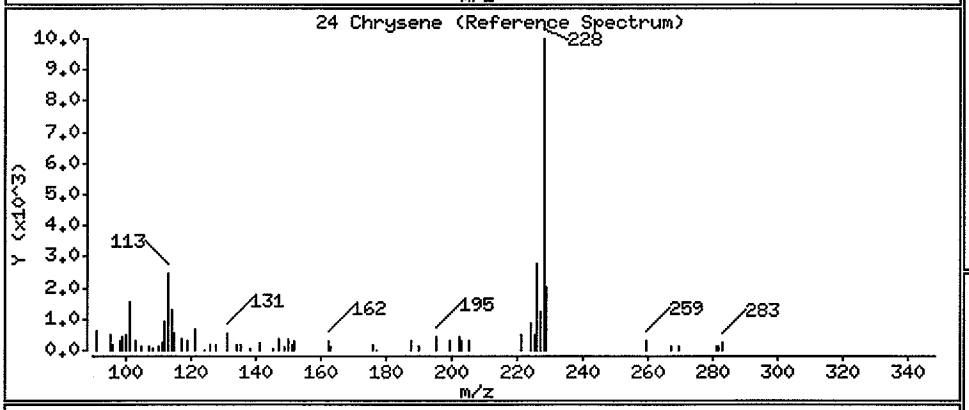
Column diameter: 0.25

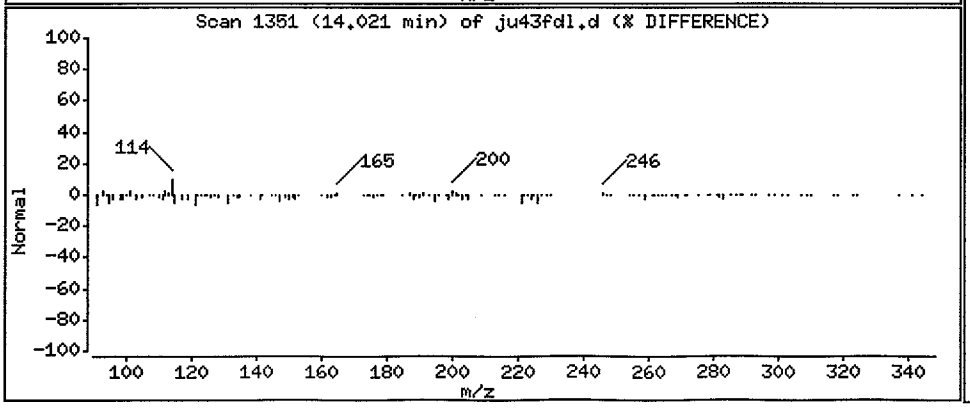
24 Chrysene

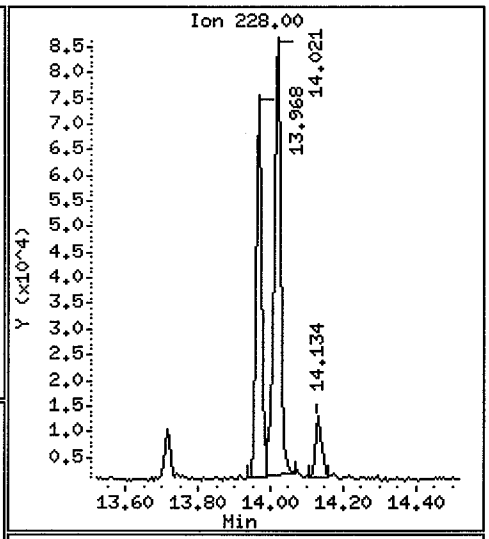
Concentration: 654.6 ug/kg

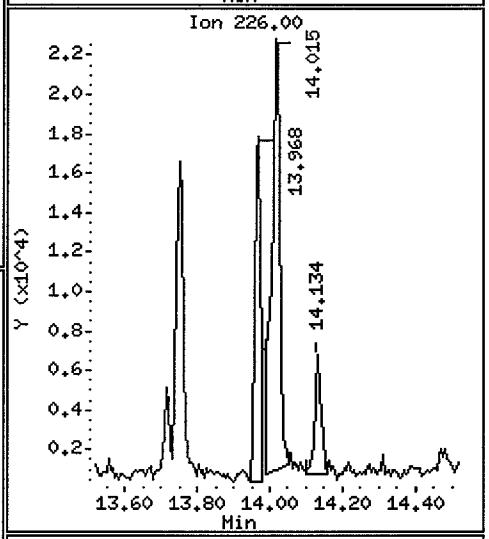


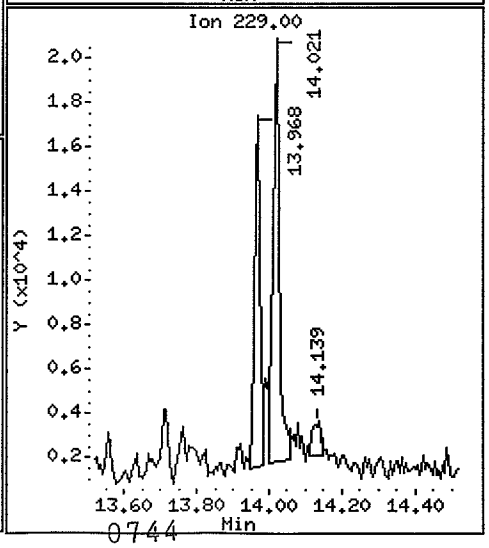












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

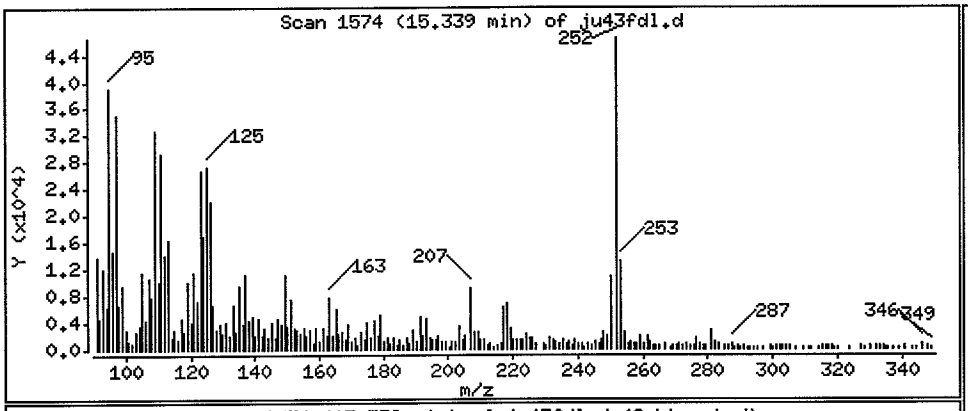
Operator: VTS

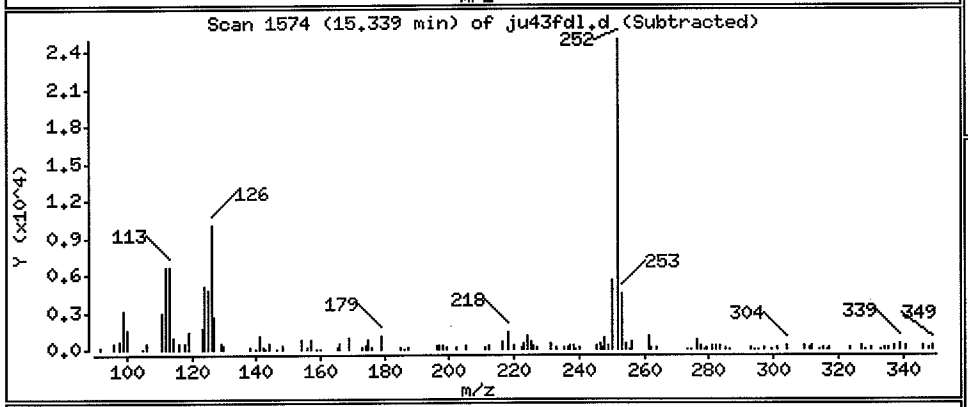
Column phase: ZB-5

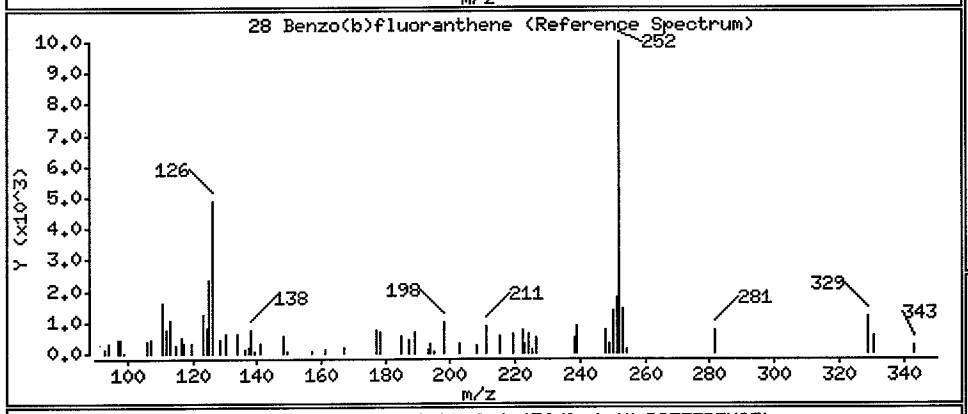
Column diameter: 0.25

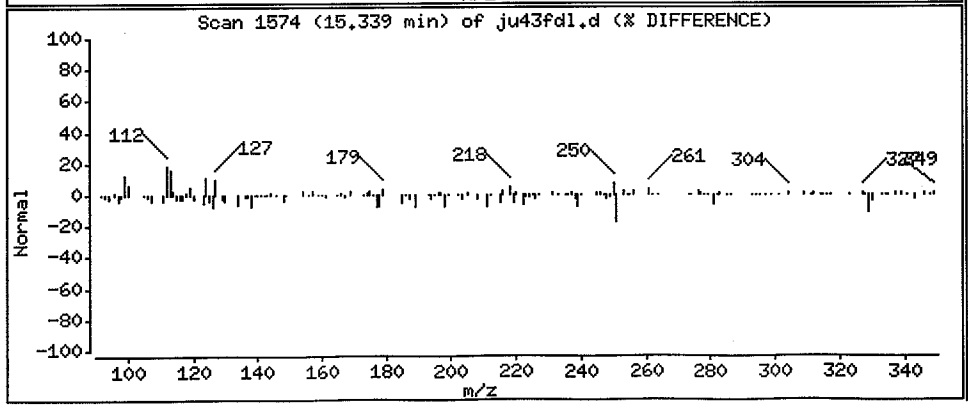
28 Benzo(b)fluoranthene

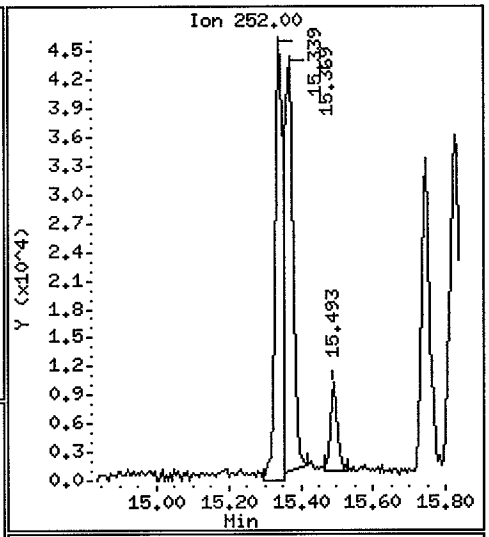
Concentration: 432.5 ug/kg

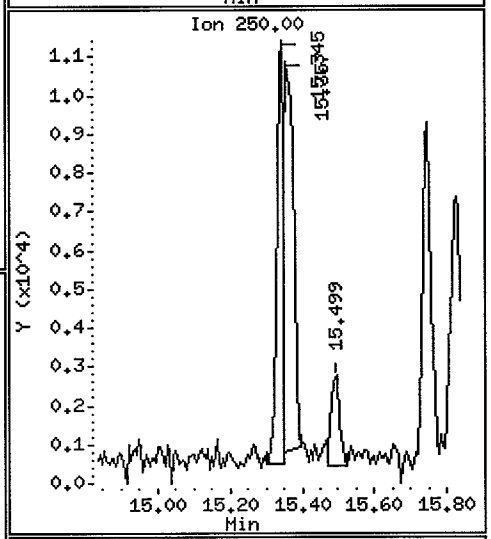


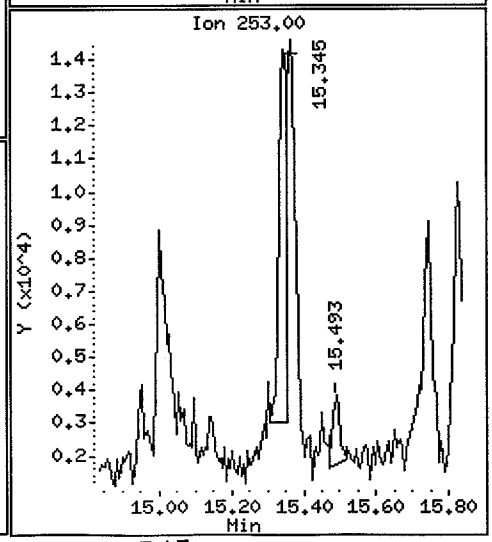












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

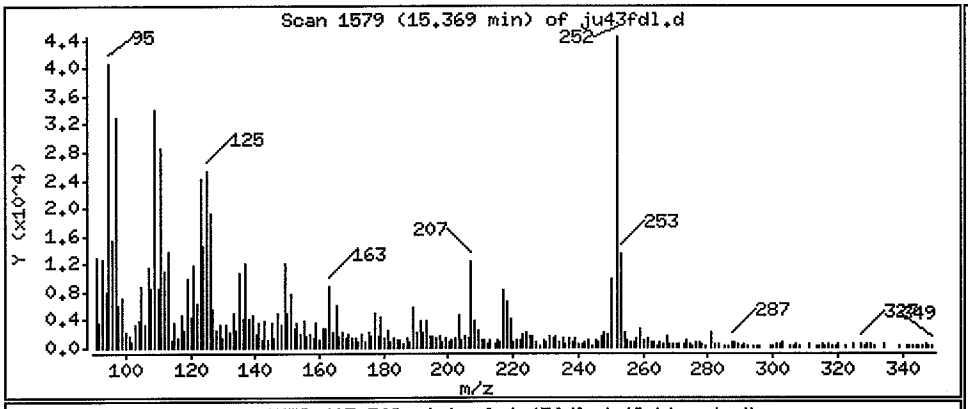
Operator: VTS

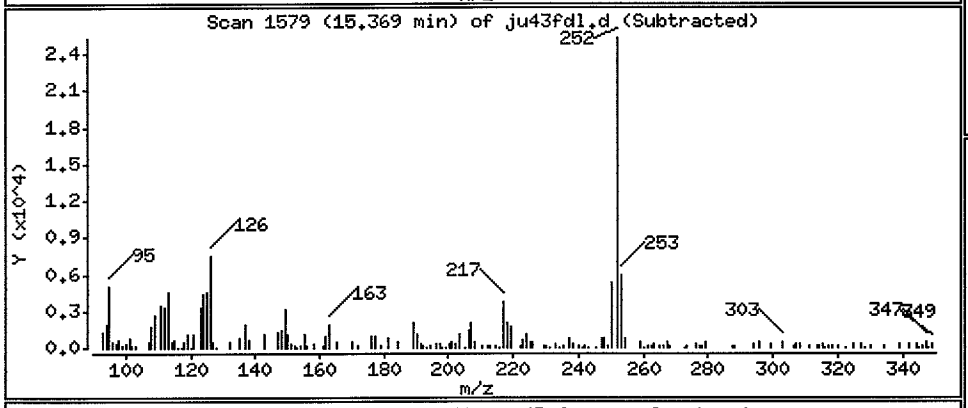
Column phase: ZB-5

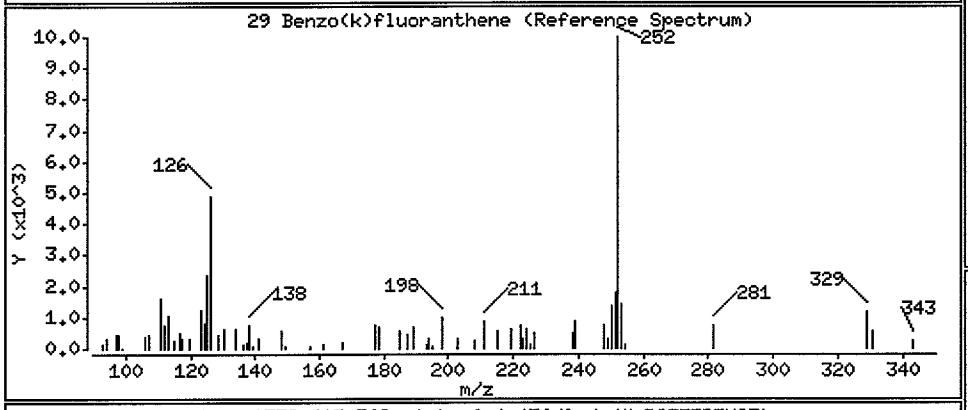
Column diameter: 0.25

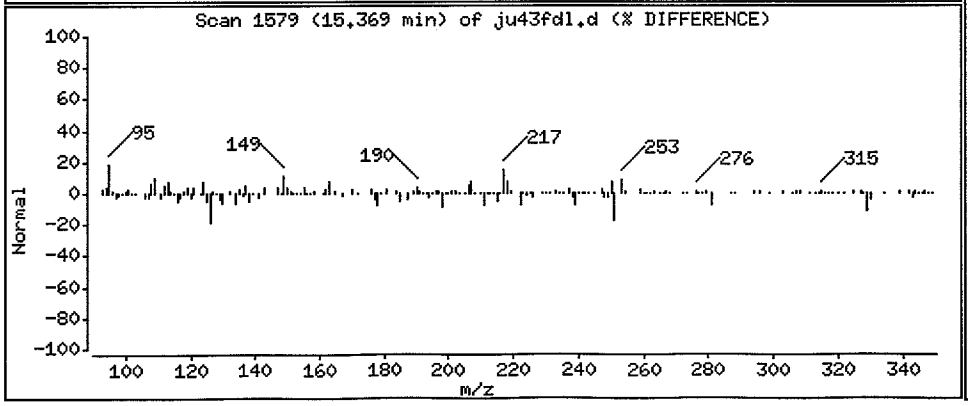
29 Benzo(k)fluoranthene

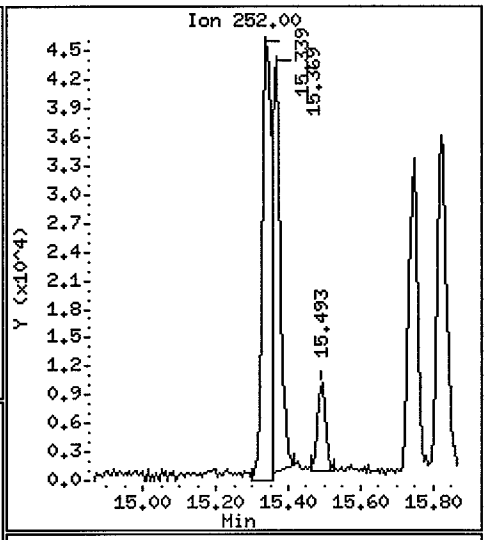
Concentration: 344.1 ug/kg

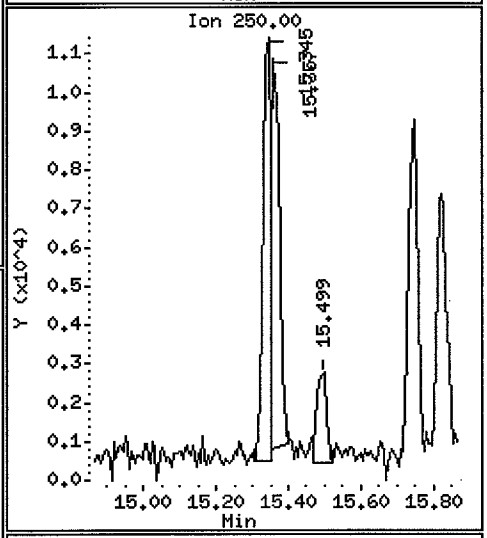


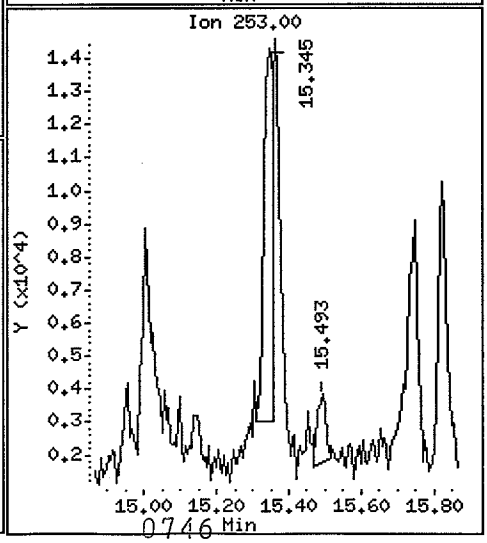












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

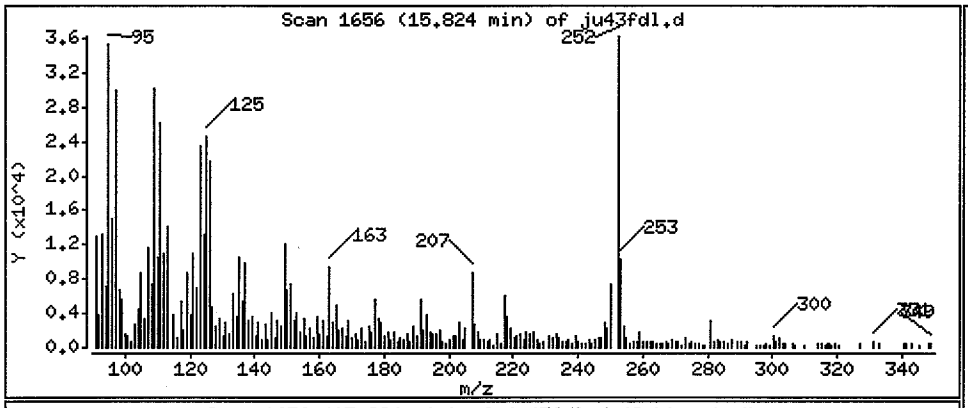
Operator: VTS

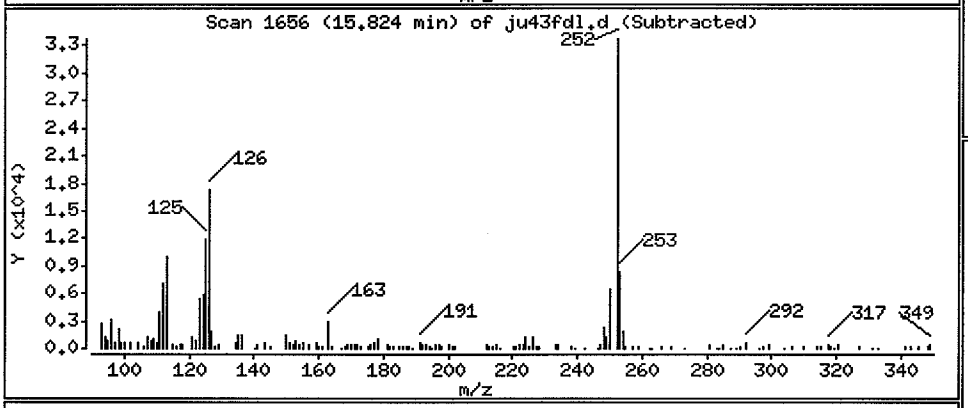
Column phase: ZB-5

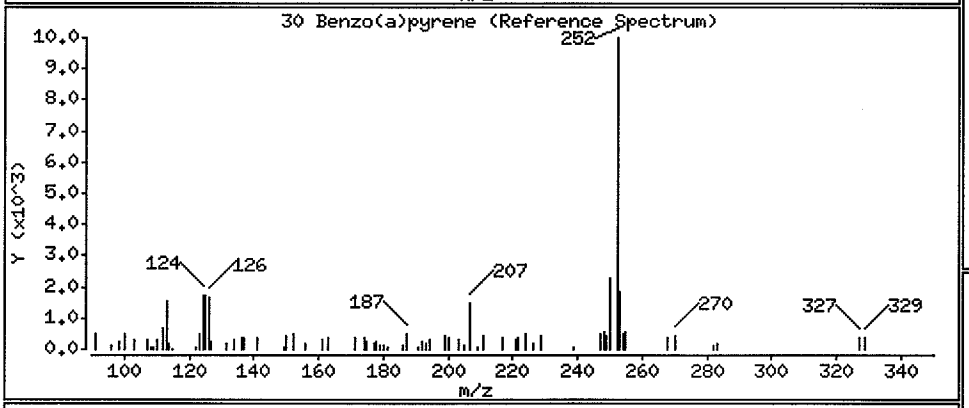
Column diameter: 0.25

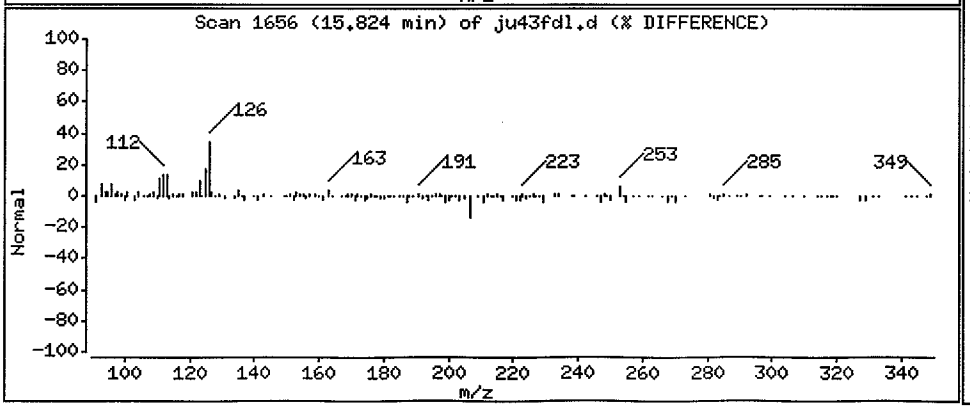
30 Benzo(a)pyrene

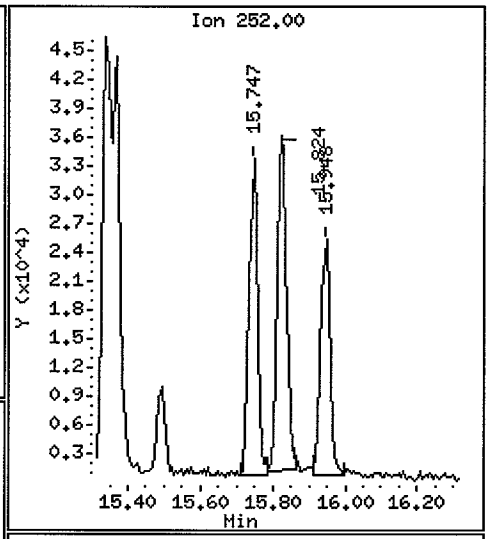
Concentration: 374.3 ug/kg

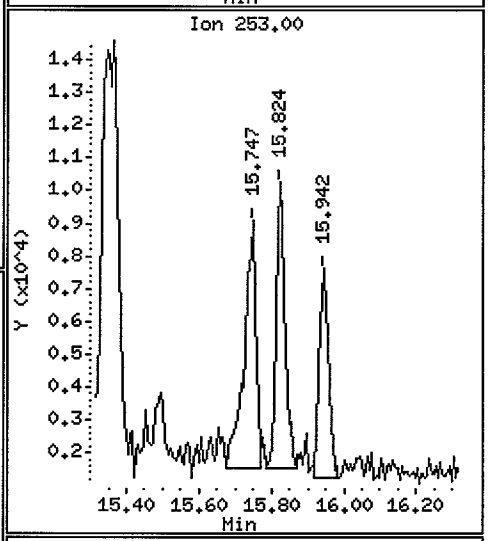


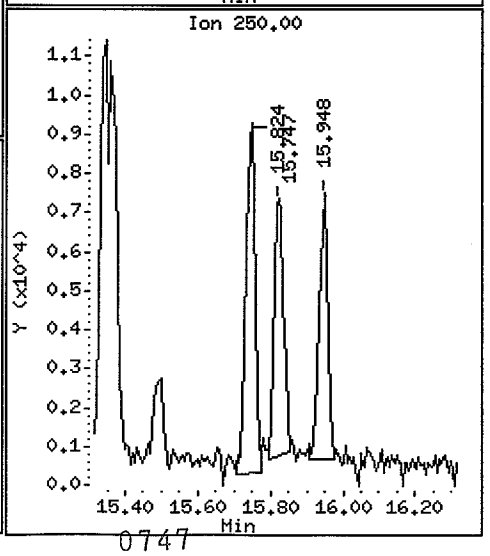












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

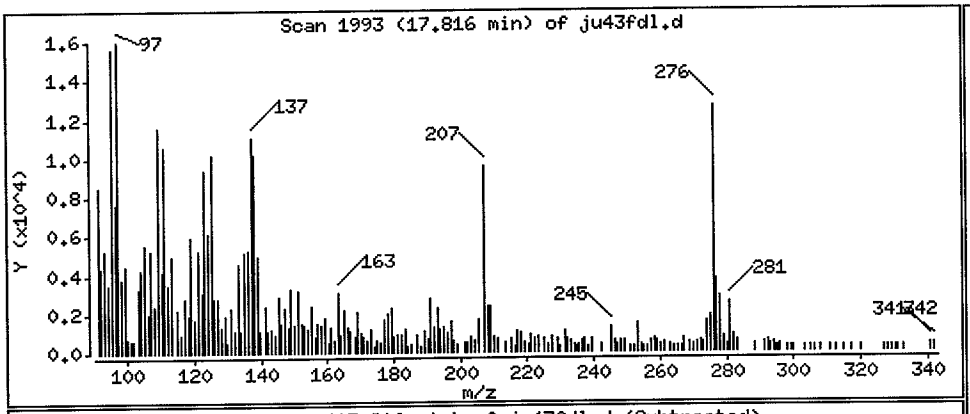
Operator: VTS

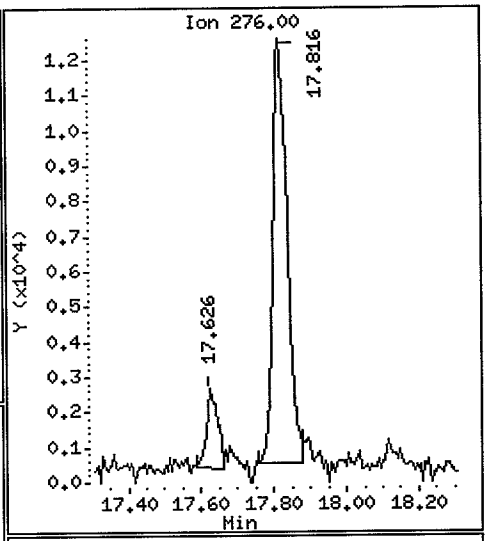
Column phase: ZB-5

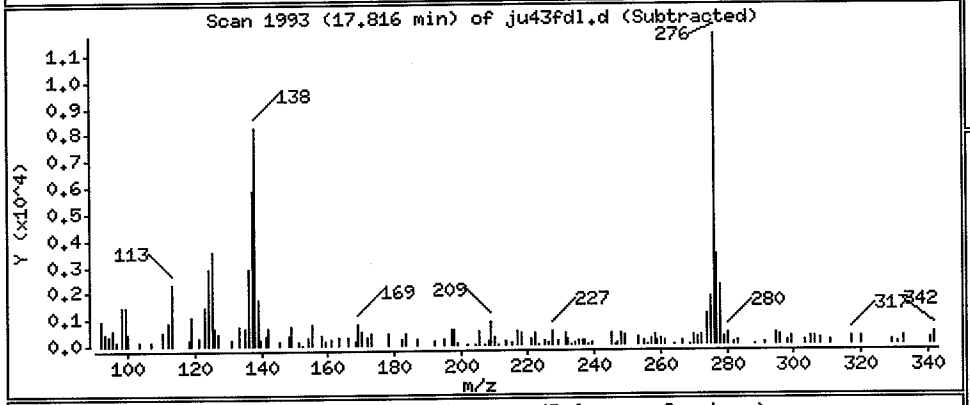
Column diameter: 0.25

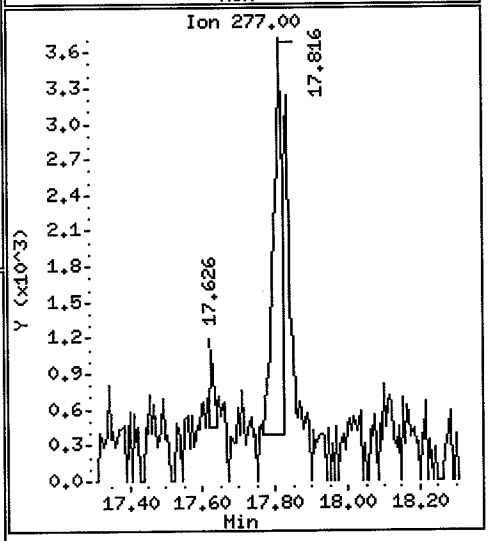
33 Indeno(1,2,3-cd)pyrene

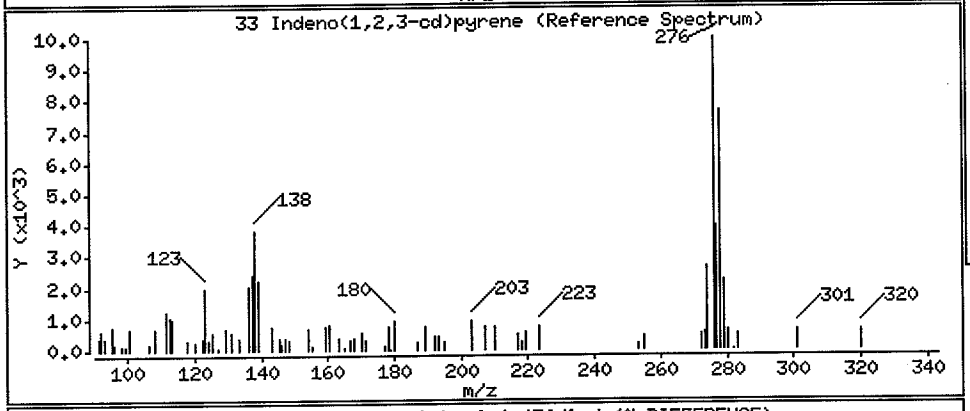
Concentration: 182.7 ug/kg

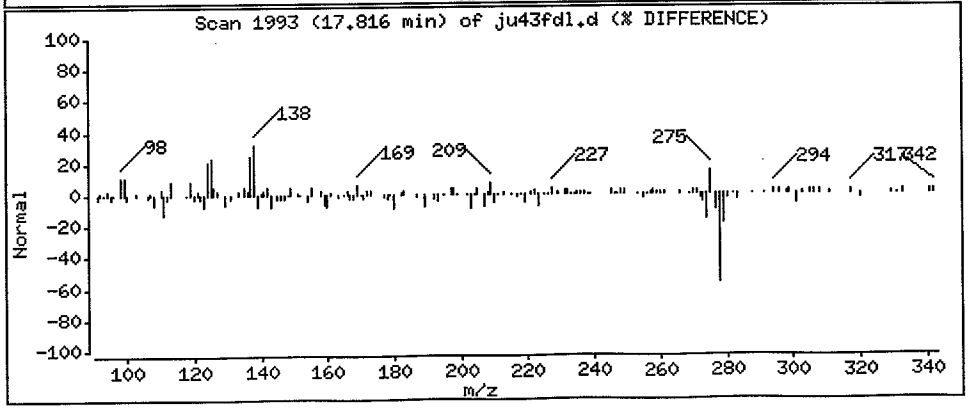












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

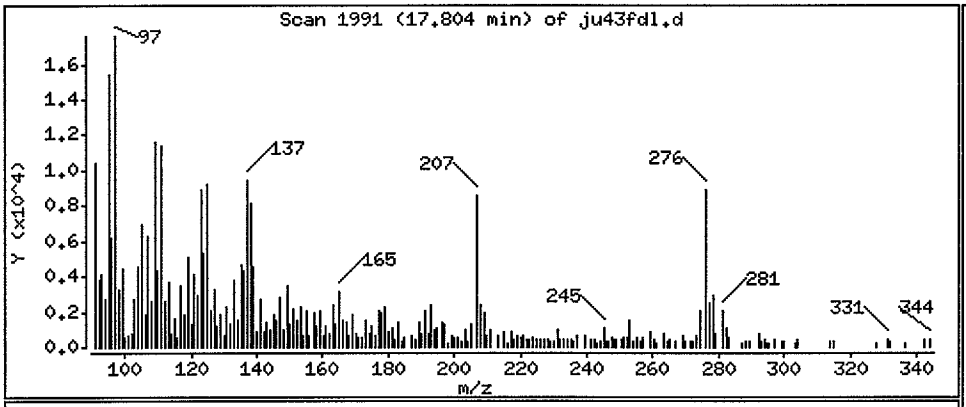
Operator: VTS

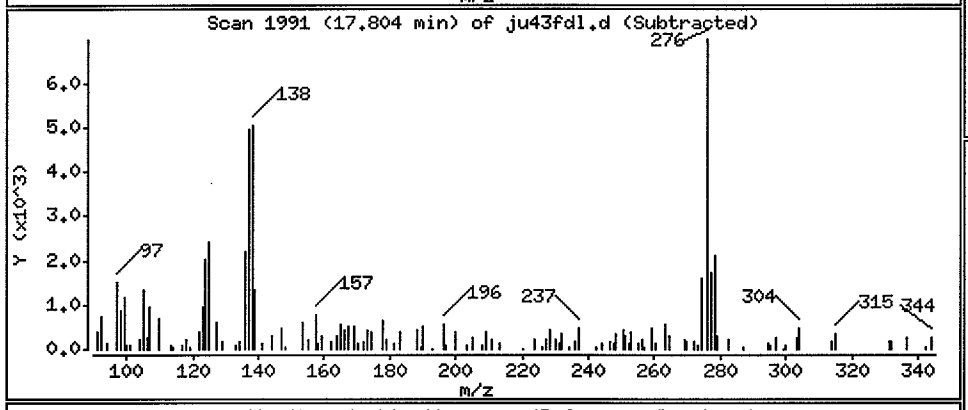
Column phase: ZB-5

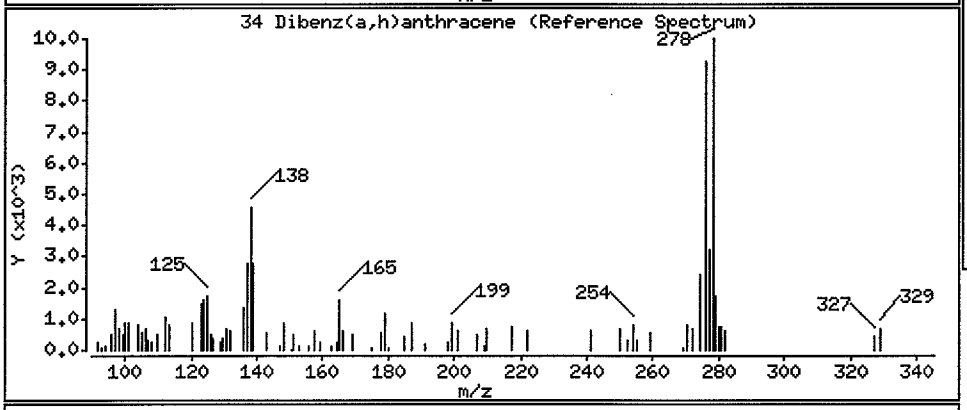
Column diameter: 0.25

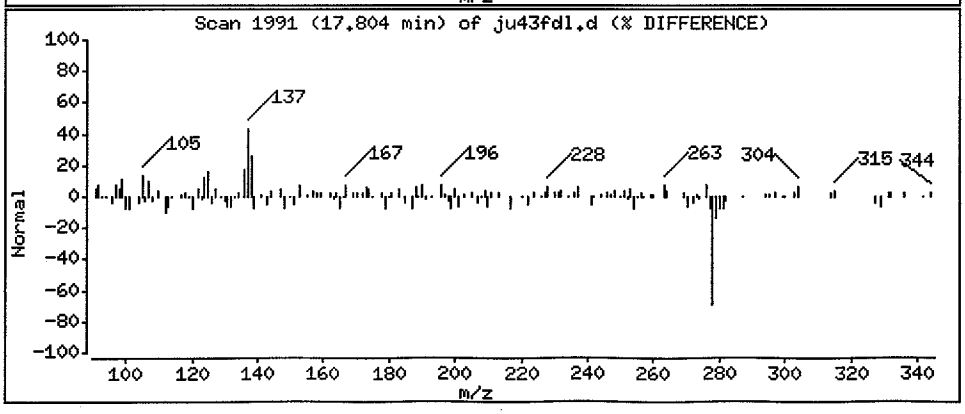
34 Dibenz(a,h)anthracene

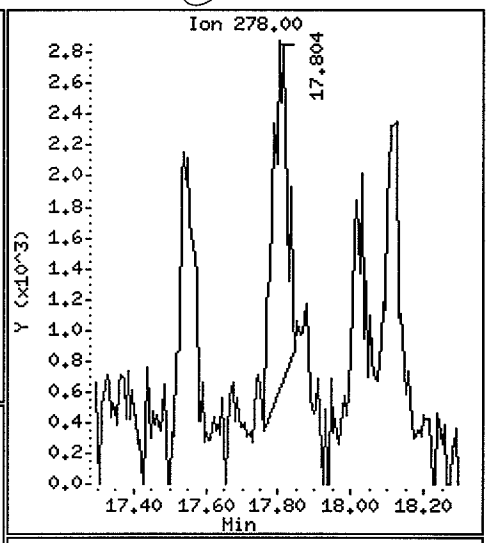
Concentration: 41.77 ug/kg

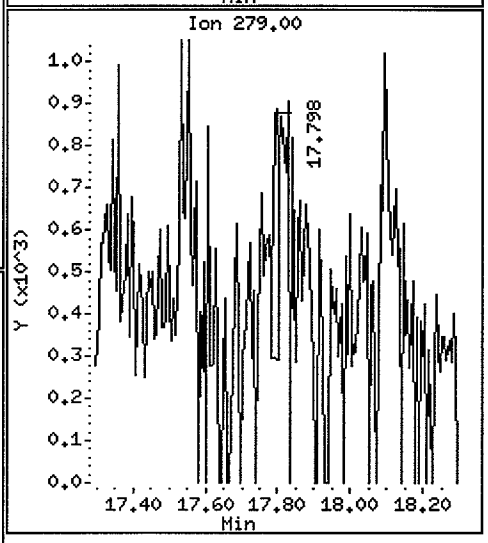












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

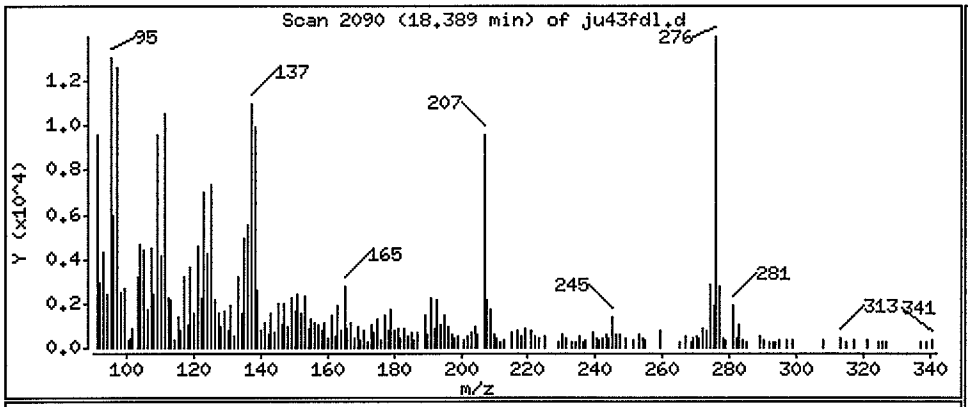
Operator: VTS

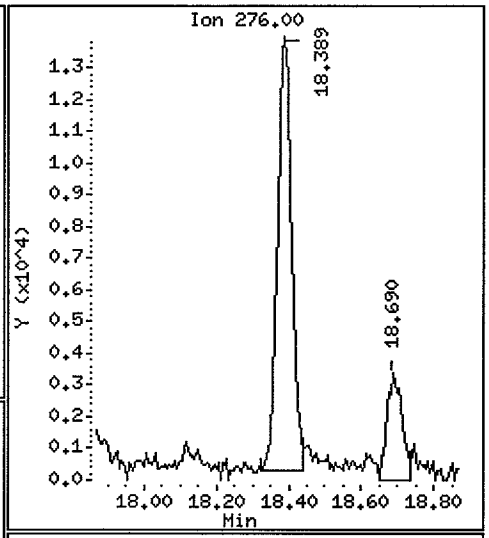
Column phase: ZB-5

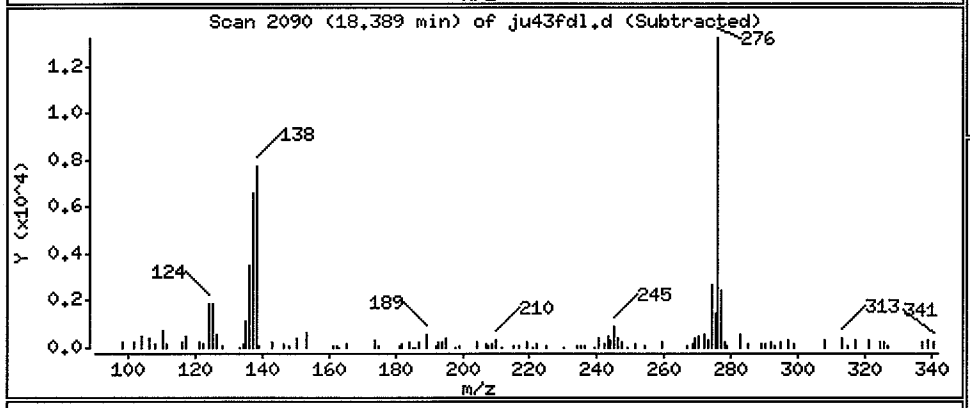
Column diameter: 0.25

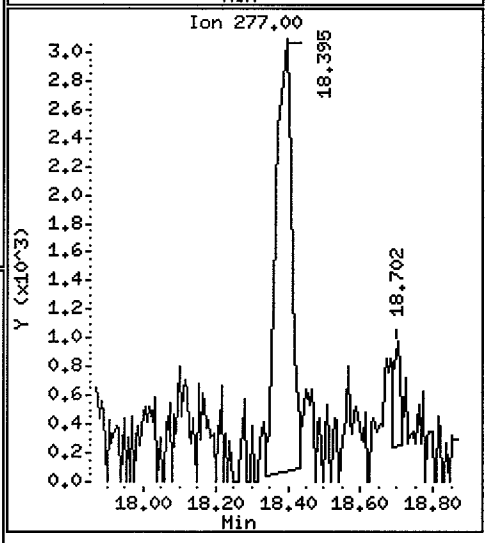
35 Benzo(g,h,i)perylene

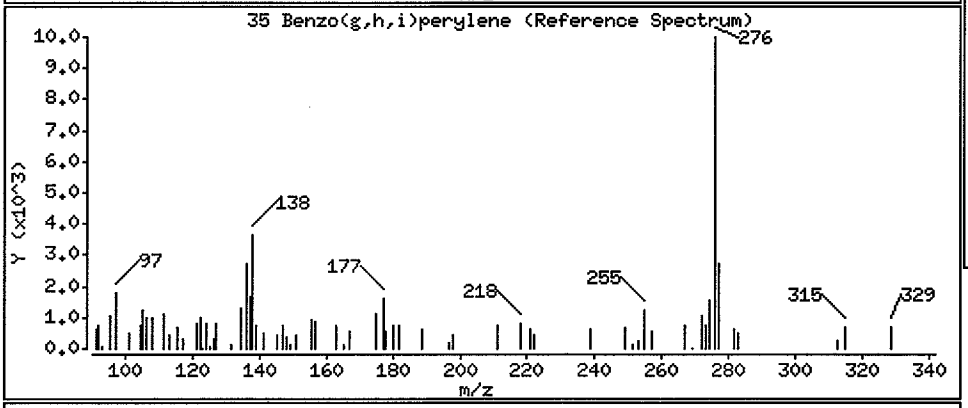
Concentration: 227.7 ug/kg

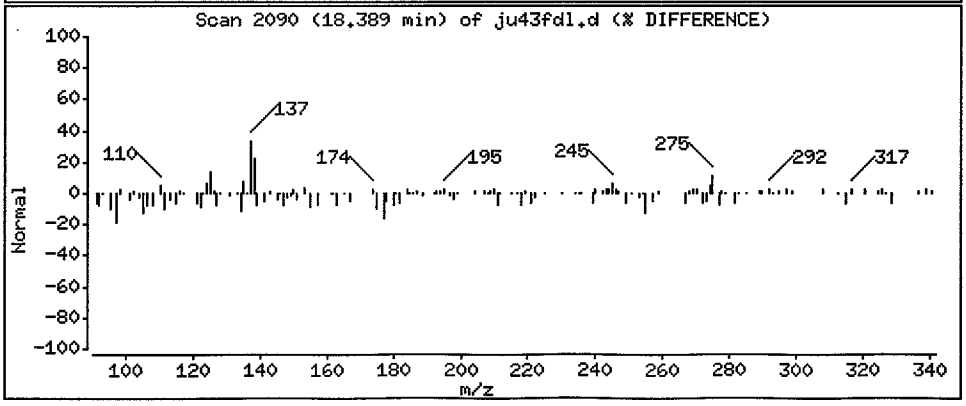












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

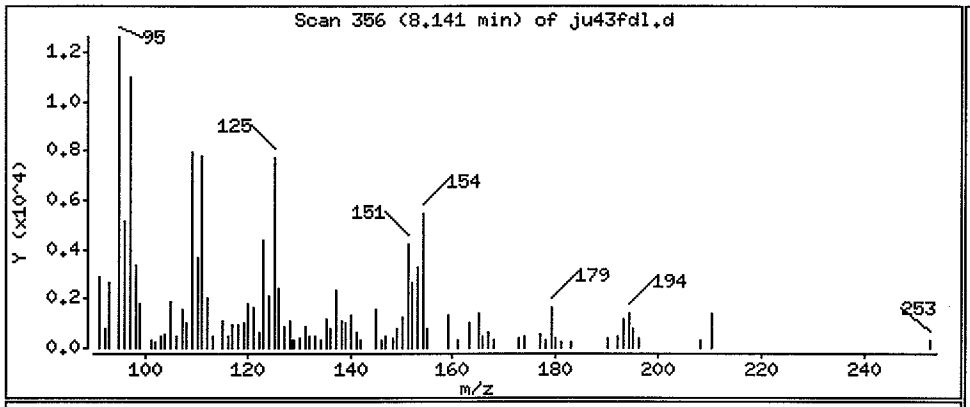
Operator: VTS

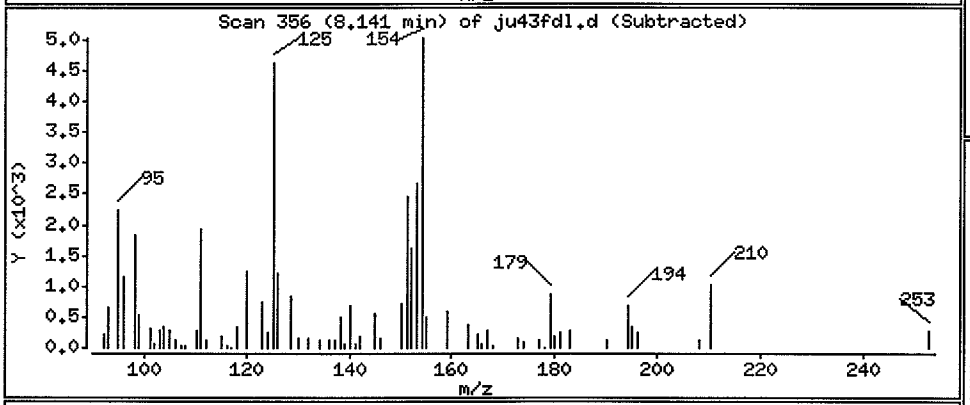
Column phase: ZB-5

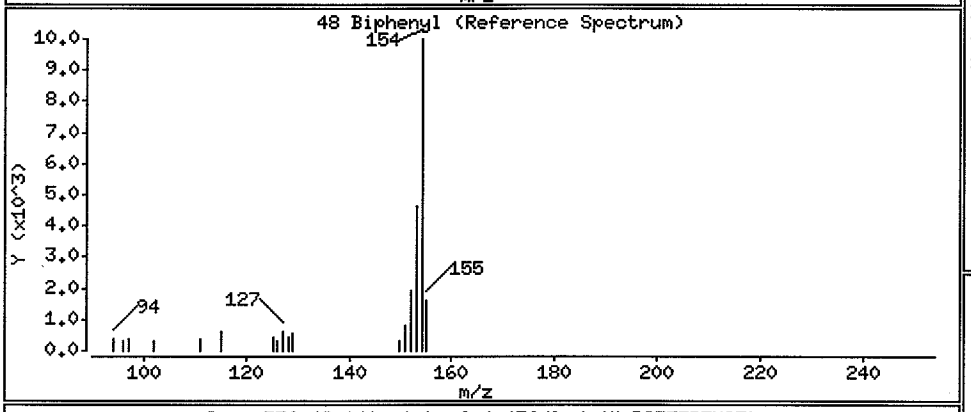
Column diameter: 0.25

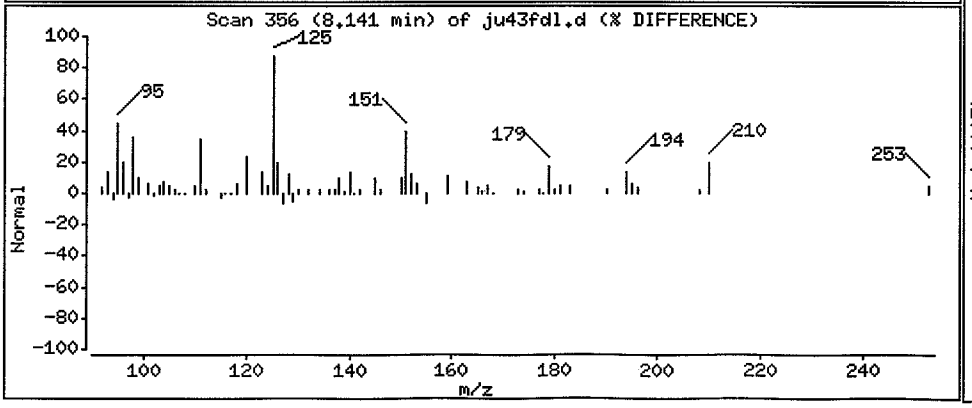
48 Biphenyl

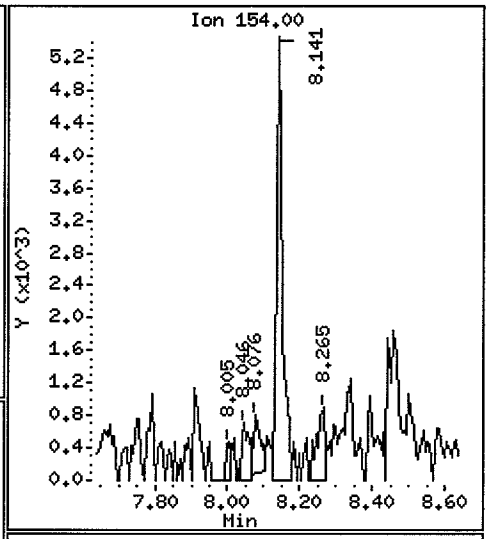
Concentration: 32.81 ug/kg

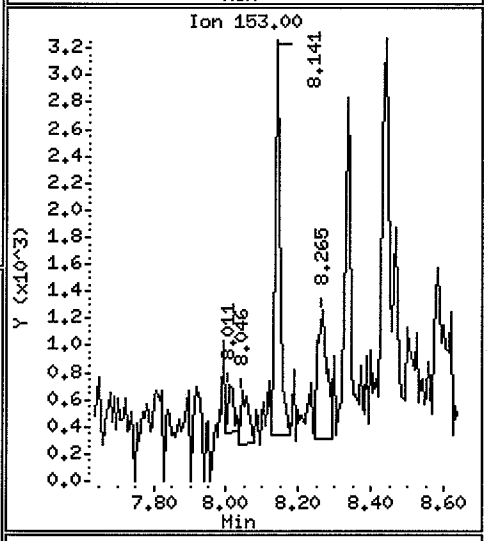


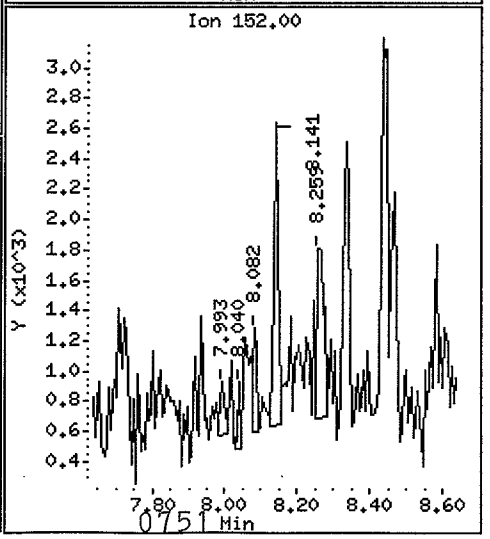












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

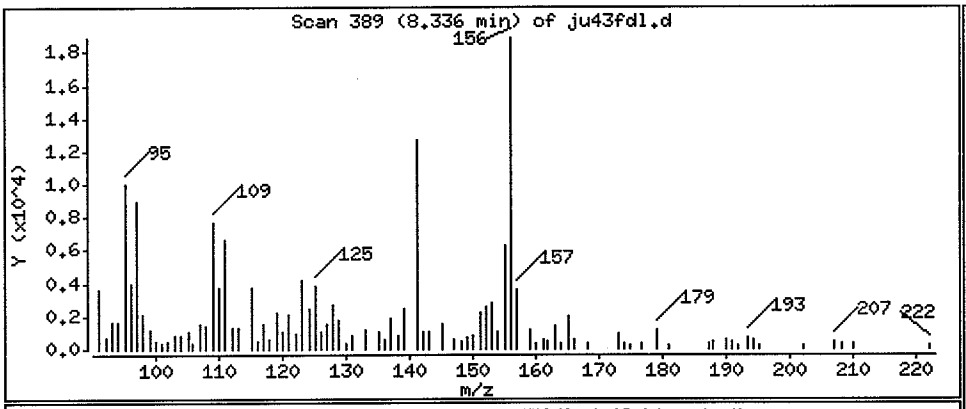
Operator: VTS

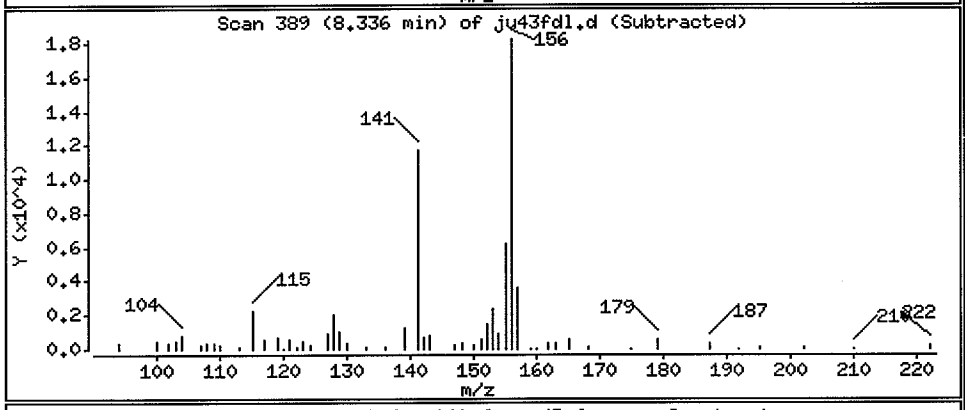
Column phase: ZB-5

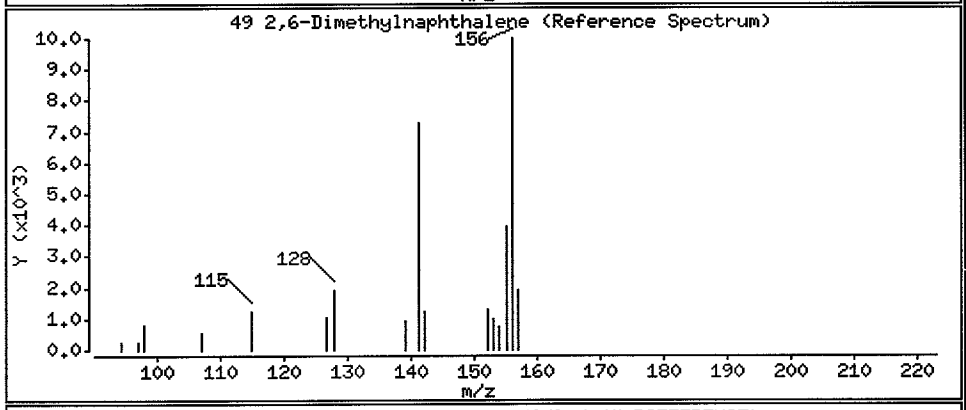
Column diameter: 0.25

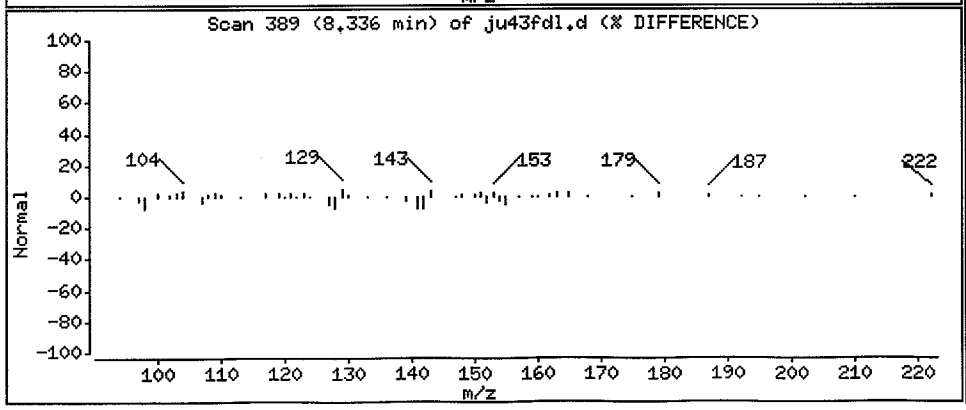
49 2,6-Dimethylnaphthalene

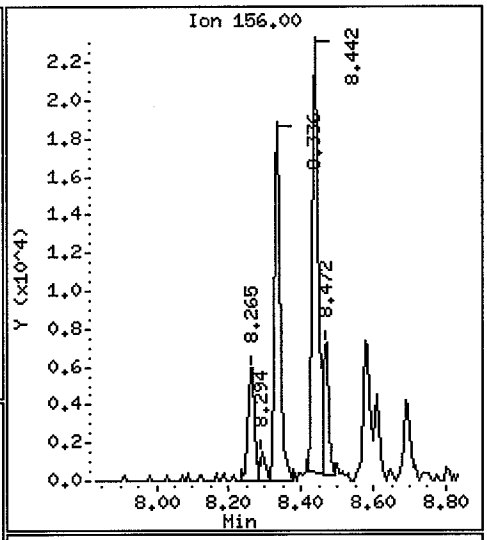
Concentration: 148.3 ug/kg

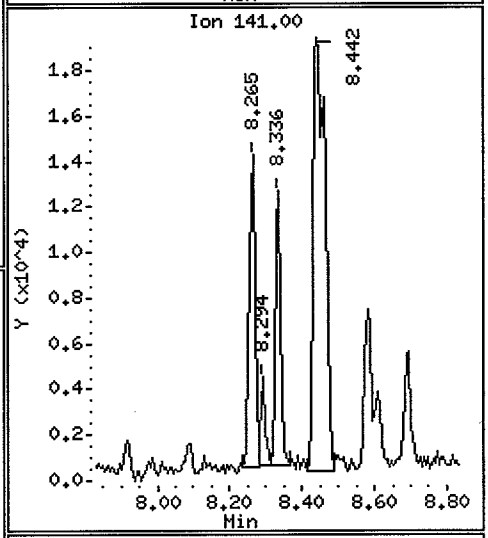


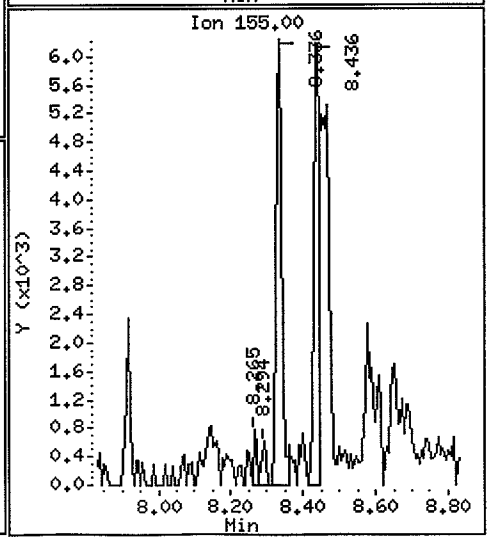












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

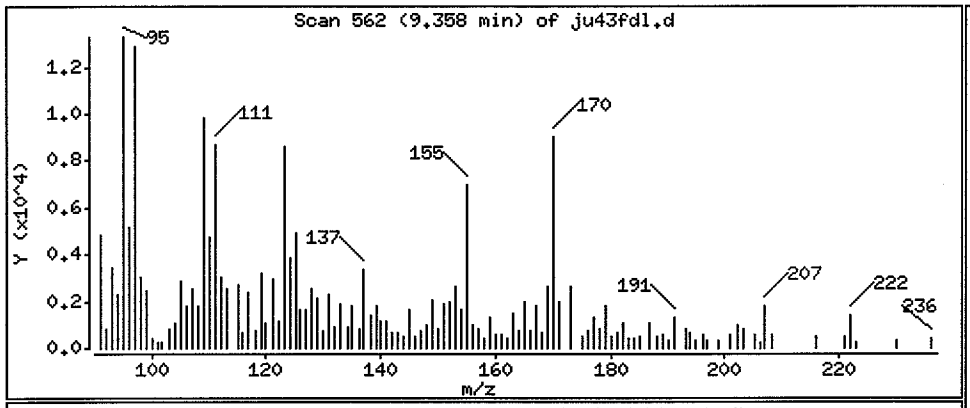
Operator: VTS

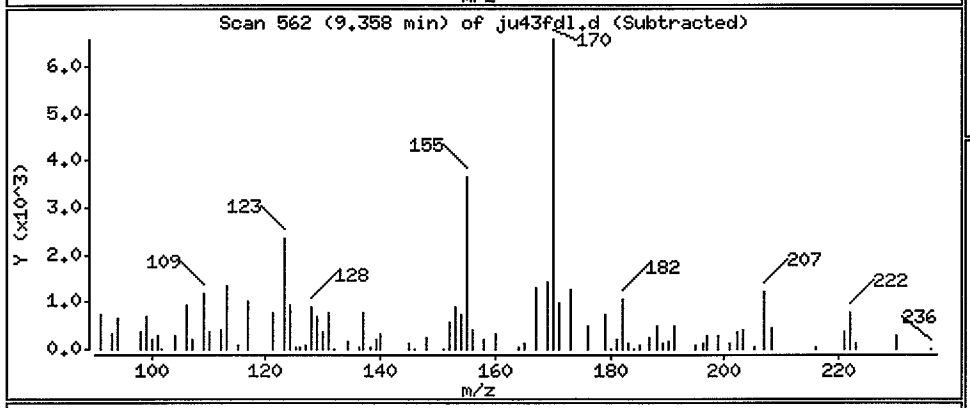
Column phase: ZB-5

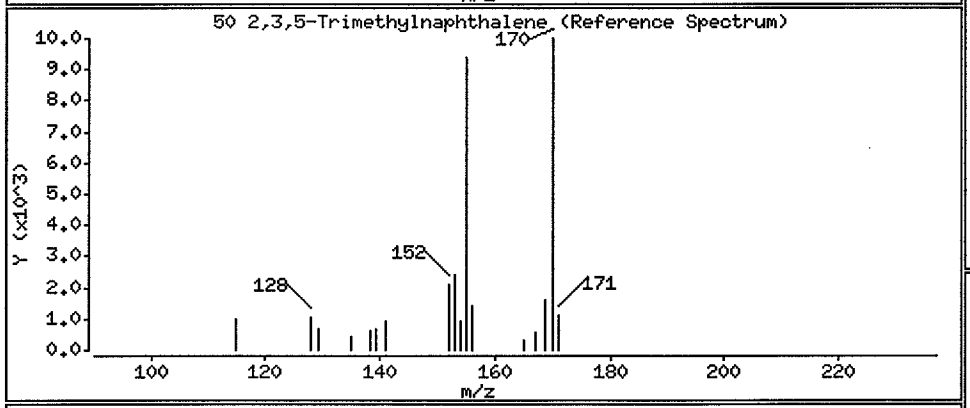
Column diameter: 0.25

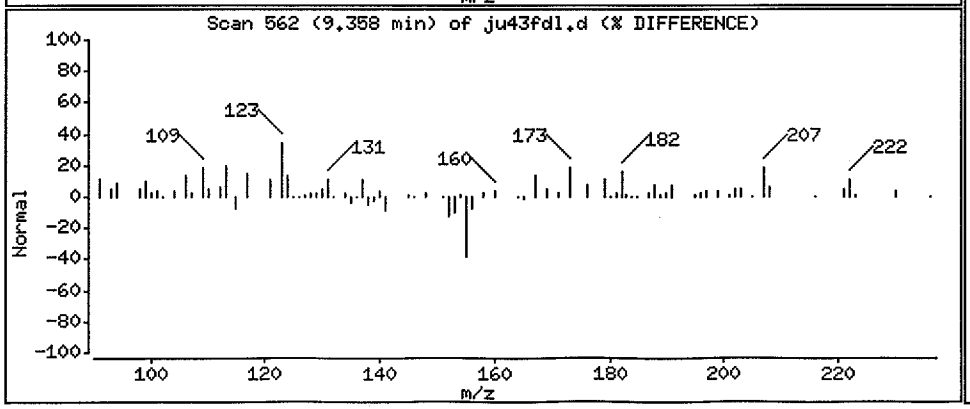
50 2,3,5-Trimethylnaphthalene

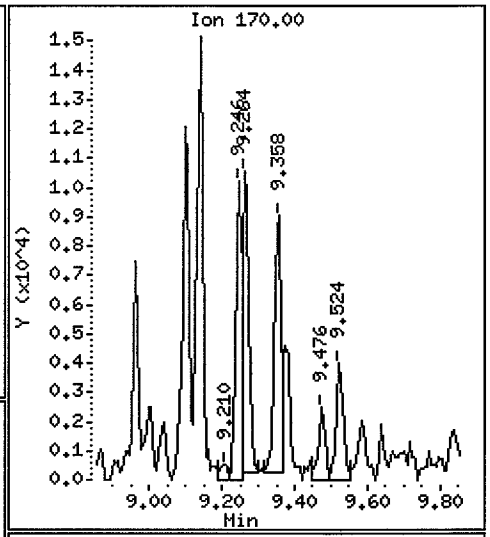
Concentration: 107.1 ug/kg

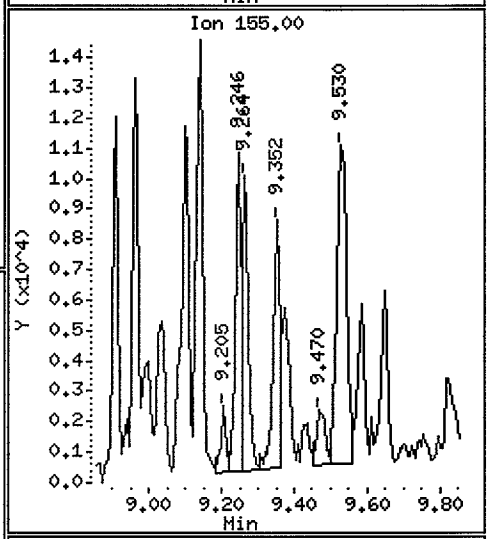


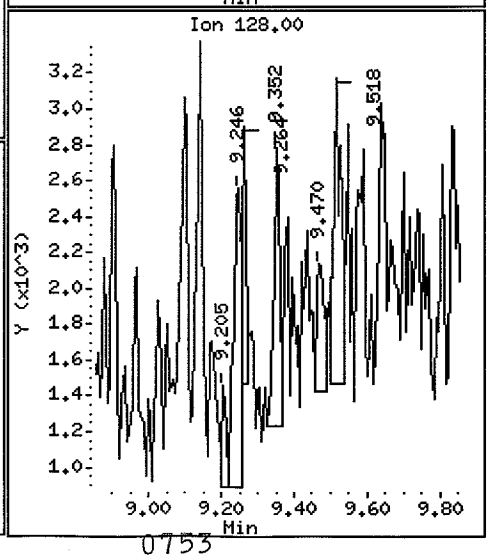












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

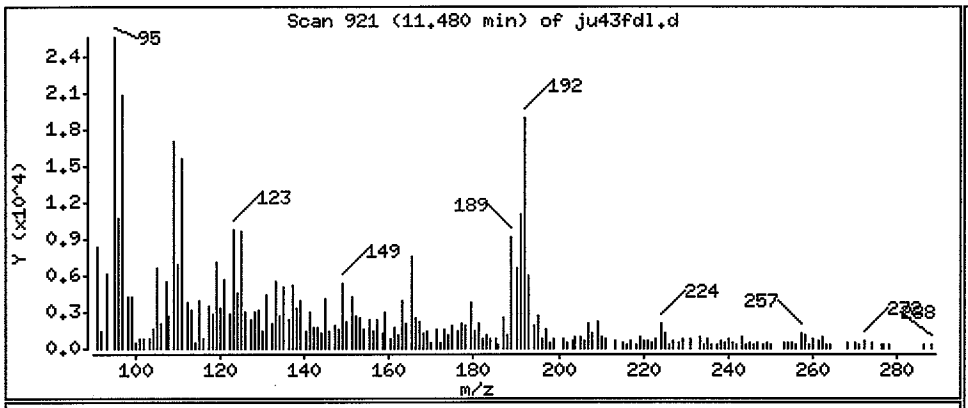
Operator: VTS

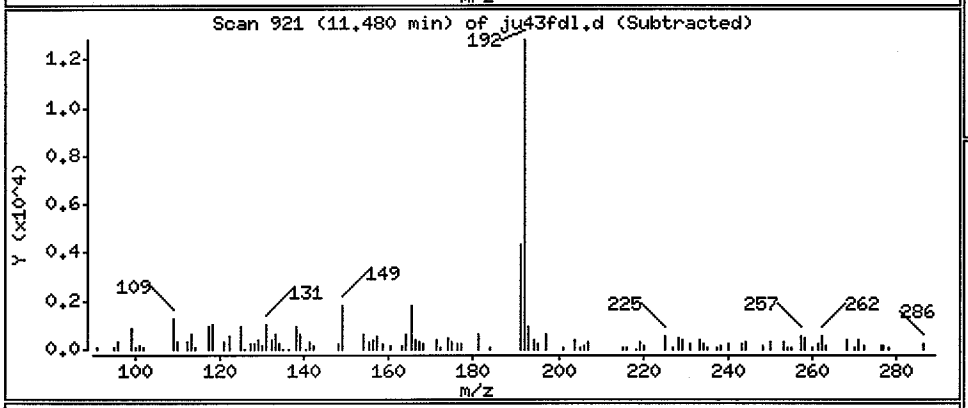
Column phase: ZB-5

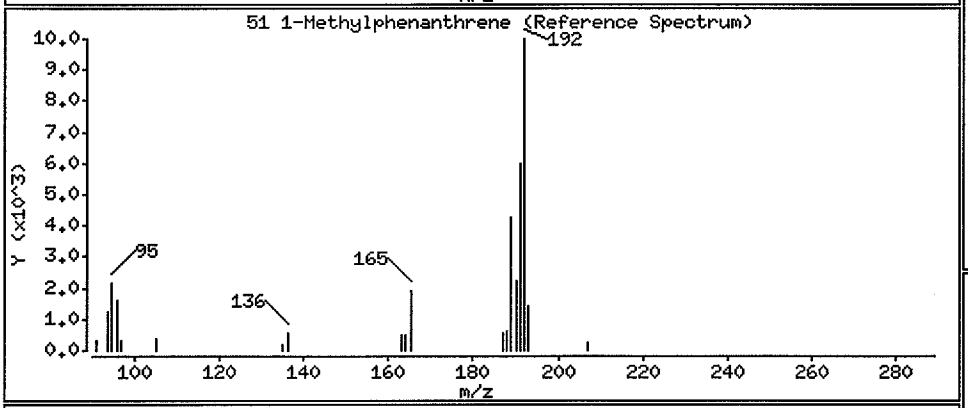
Column diameter: 0.25

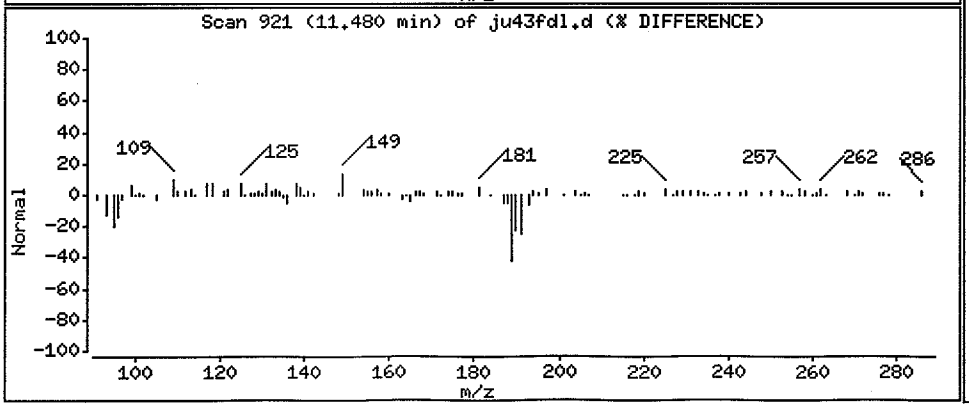
51 1-Methylphenanthrene

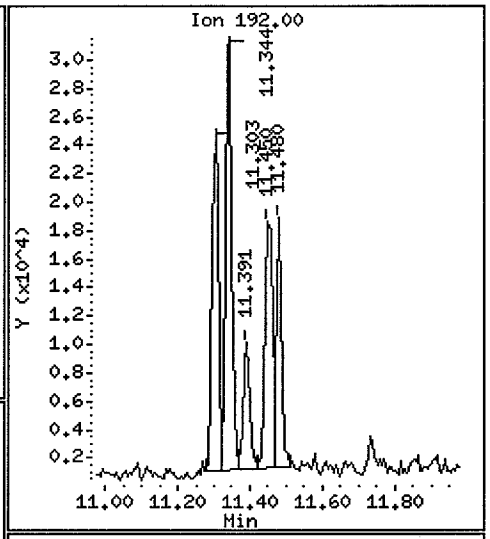
Concentration: 130.7 ug/kg

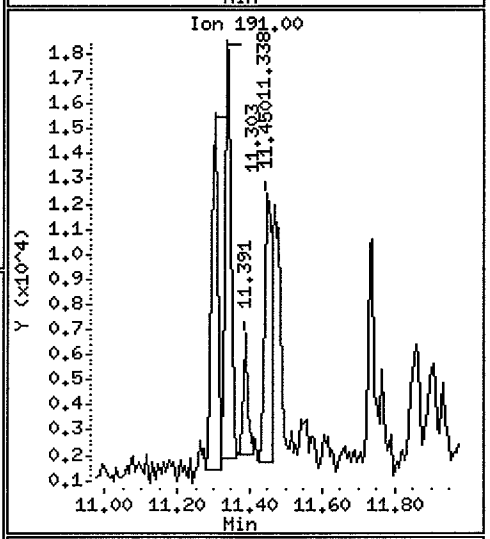


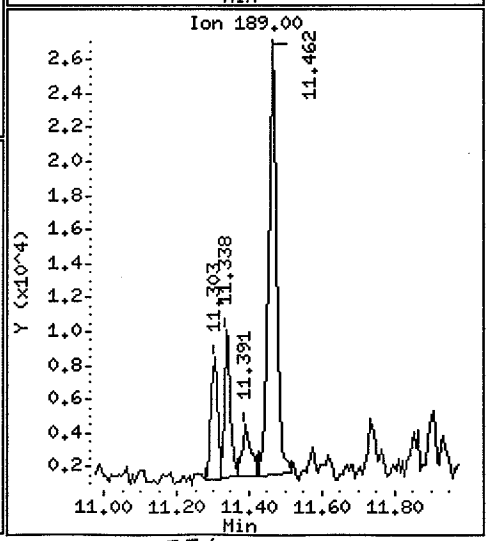












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

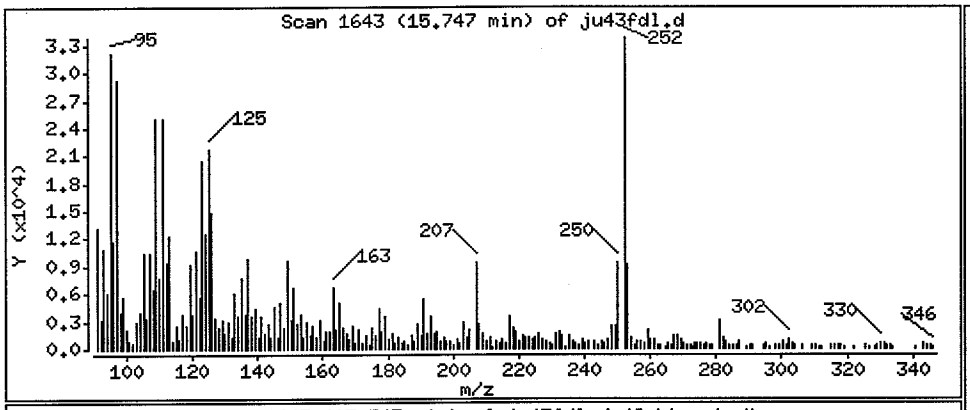
Operator: VTS

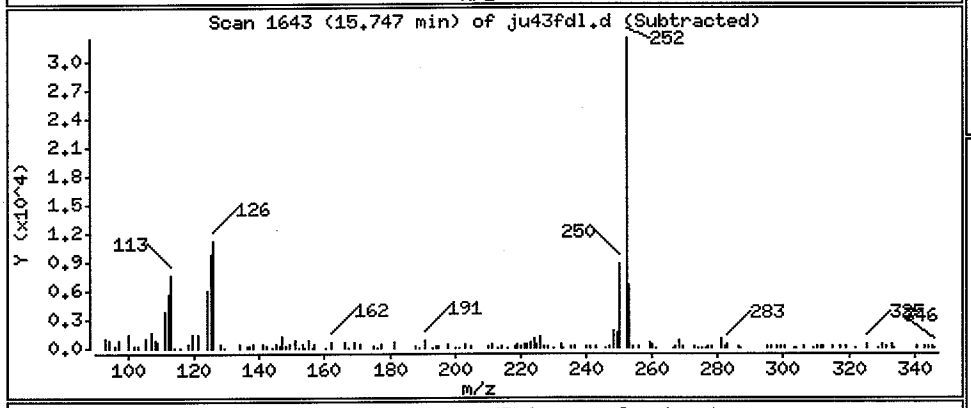
Column phase: ZB-5

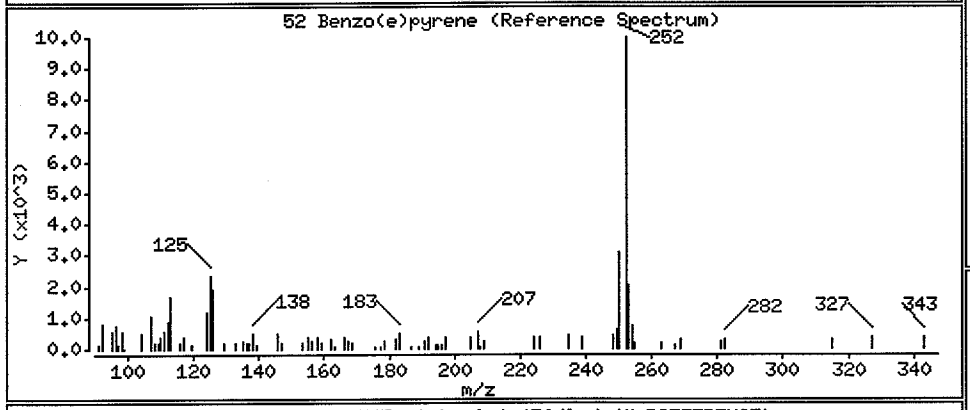
Column diameter: 0.25

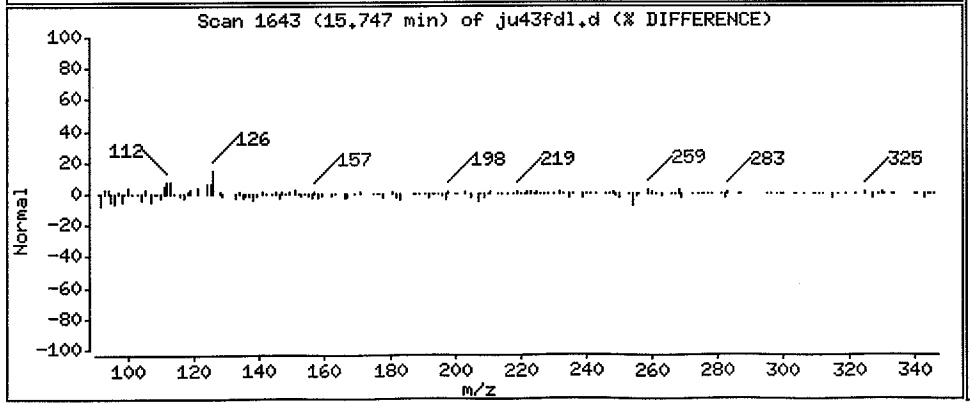
52 Benzo(e)pyrene

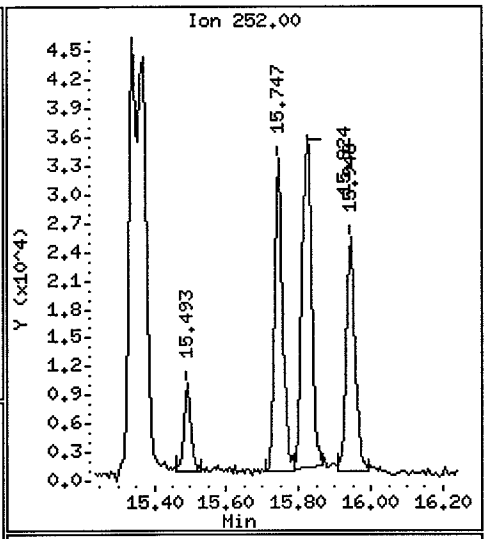
Concentration: 281.7 ug/kg

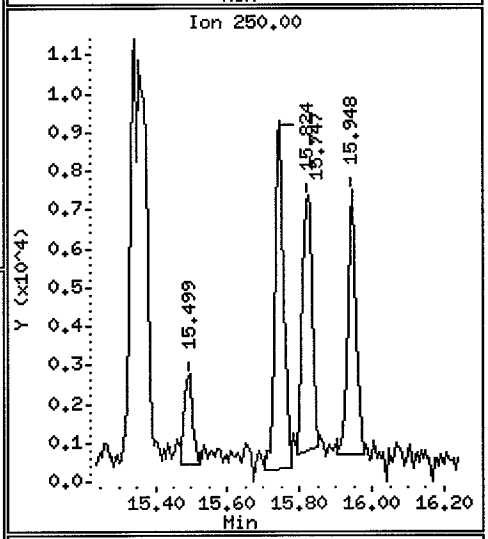


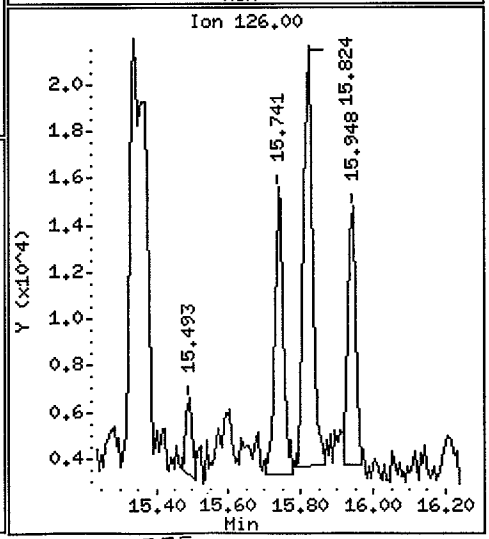












Data File: /chem3/nt1.i/20060913.b/ju43fdl.d

Date : 13-SEP-2006 15:59

Client ID: T4-B414-02-F

Instrument: nt1.i

Sample Info: JU43F,10

Volume Injected (uL): 1.0

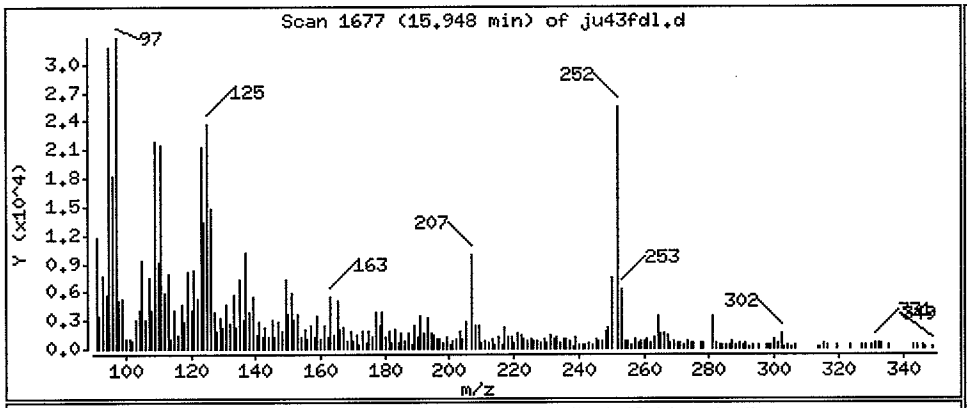
Operator: VTS

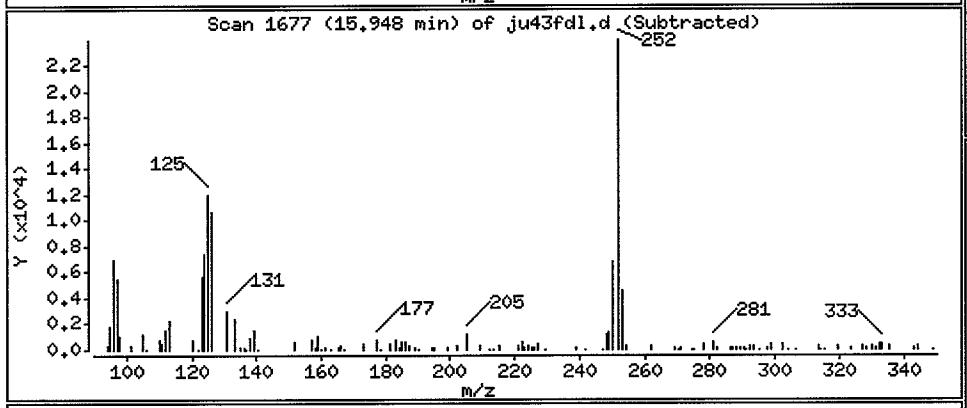
Column phase: ZB-5

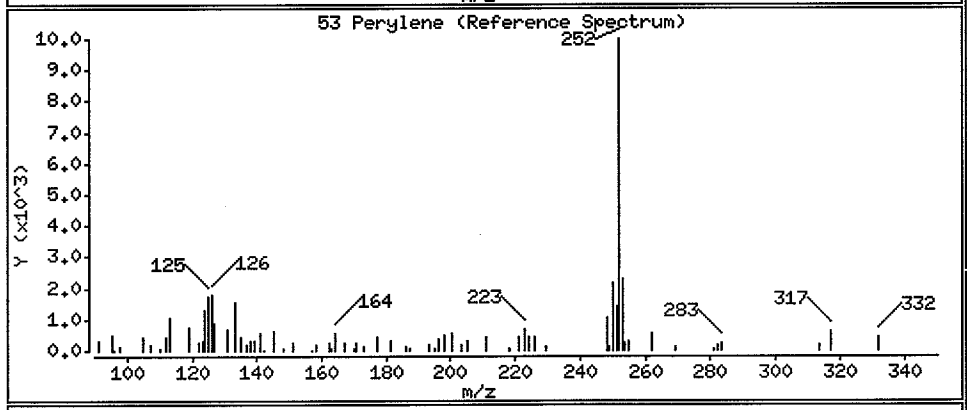
Column diameter: 0.25

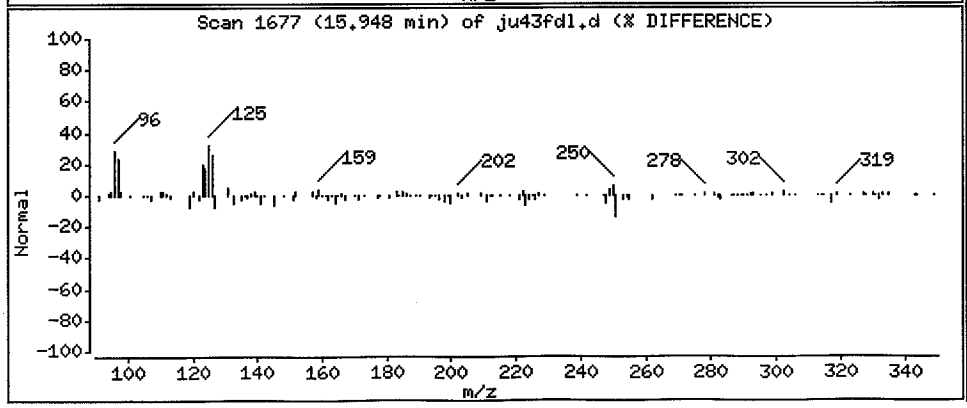
53 Perylene

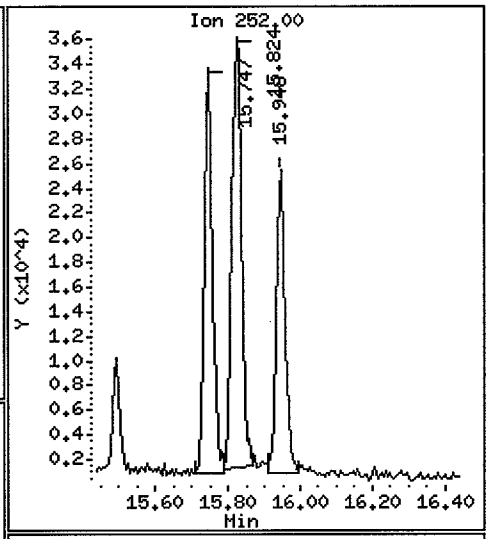
Concentration: 246.6 ug/kg

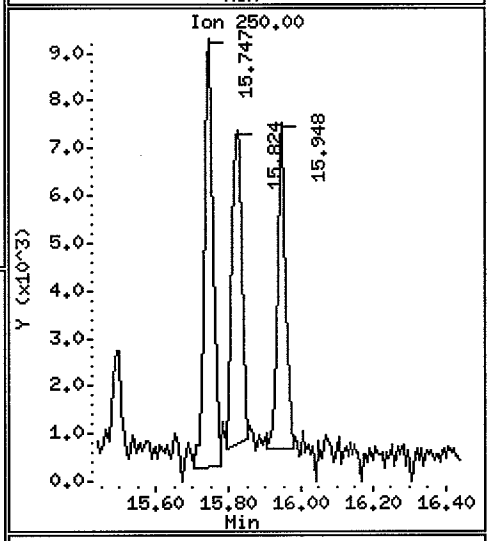


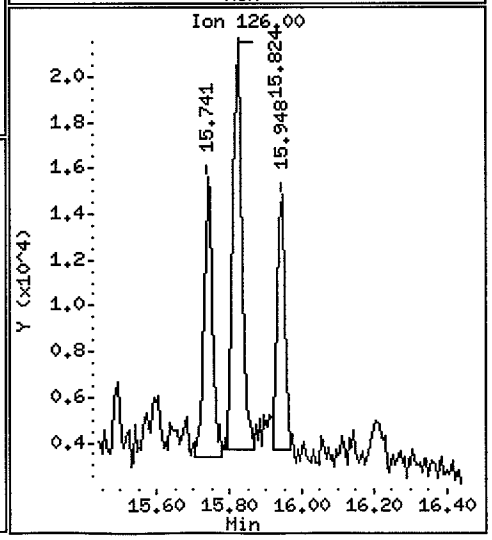












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-B414-04-D
SAMPLE

Lab Sample ID: JU43G
LIMS ID: 06-15851
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 15:56
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 50.5%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.9	28
91-57-6	2-Methylnaphthalene	4.9	15
90-12-0	1-Methylnaphthalene	4.9	12
208-96-8	Acenaphthylene	4.9	6.4
83-32-9	Acenaphthene	4.9	51
86-73-7	Fluorene	4.9	30
85-01-8	Phenanthrene	4.9	190
120-12-7	Anthracene	4.9	39
206-44-0	Fluoranthene	4.9	310
129-00-0	Pyrene	4.9	280
56-55-3	Benzo(a)anthracene	4.9	130
218-01-9	Chrysene	4.9	180
205-99-2	Benzo(b)fluoranthene	4.9	190
207-08-9	Benzo(k)fluoranthene	4.9	150
50-32-8	Benzo(a)pyrene	4.9	180
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	97
53-70-3	Dibenz(a,h)anthracene	4.9	33
191-24-2	Benzo(g,h,i)perylene	4.9	100
198-55-0	Perylene	4.9	250
92-52-4	Biphenyl	4.9	5.4
581-42-0	2,6-Dimethylnaphthalene	4.9	12
832-69-9	1-Methylphenanthrene	4.9	17
192-97-2	Benzo(e)pyrene	4.9	120
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	6.4

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	88.3%
d14-Dibenzo(a,h)anthracen	81.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43g.d
Lab Smp Id: JU43G Client Smp ID: T4-B414-04-D
Inj Date : 12-SEP-2006 15:56
Operator : VTS Inst ID: nt1.i
Smp Info : JU43G
Misc Info : 06-15851
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 5
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	20.60000	Weight of sample extracted (g)
M	50.50000	% 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	6.808	6.808	(1.000)	353358	2.00000		
	2 Naphthalene	128	6.832	6.832	(1.003)	98925	0.58271	28.57	
$	3 2-Methylnaphthalene-d10	152	7.565	7.564	(1.111)	232450	2.65290	130.1	
	4 2-Methylnaphthalene	142	7.606	7.600	(1.117)	27812	0.30824	15.11	
	5 1-Methylnaphthalene	142	7.736	7.730	(1.136)	24263	0.24780	12.15	
	7 Acenaphthylene	152	8.694	8.687	(0.980)	19061	0.13360	6.551	
*	8 Acenaphthene-d10	164	8.871	8.871	(1.000)	173658	2.00000		
	9 Acenaphthene	153	8.907	8.906	(1.004)	89227	1.03549	50.77	
	10 Dibenzofuran	168	9.096	9.095	(1.025)	34202	~~0.27929~~	13.69	NR
	11 Fluorene	166	9.521	9.521	(1.073)	57060	0.61034	29.93	
*	15 Phenanthrene-d10	188	10.680	10.679	(1.000)	220377	2.00000		
	16 Phenanthrene	178	10.709	10.709	(1.003)	463064	3.87634	190.1	
	17 Anthracene	178	10.768	10.762	(1.008)	96596	0.80175	39.31	
	19 Fluoranthene	202	12.204	12.198	(1.143)	636682	6.24396	306.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.494	12.488	(0.893)	653748	5.64819	277.0
	22 Benzo(a)anthracene	228	13.971	13.965	(0.998)	267776	2.71586	133.2
*	23 Chrysene-d12	240	13.995	13.989	(1.000)	164456	2.00000	
	24 Chrysene	228	14.025	14.018	(1.002)	345013	3.72375	182.6
	28 Benzo(b)fluoranthene	252	15.349	15.336	(0.964)	365839	3.79328	186.0
	29 Benzo(k)fluoranthene	252	15.378	15.366	(0.966)	304891	3.02696	148.4(M)
	30 Benzo(a)pyrene	252	15.839	15.821	(0.995)	309660	3.55983	174.6
*	31 Perylene-d12	264	15.916	15.898	(1.000)	170311	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.837	17.813	(1.121)	184455	1.97524	96.85
$	32 Dibenz(a,h)anthrancene-d14	292	17.754	17.736	(1.115)	136110	2.43879	119.6
	34 Dibenz(a,h)anthracene	278	17.807	17.807	(1.119)	51344	0.67838	33.26
	35 Benzo(g,h,i)perylene	276	18.404	18.380	(1.156)	172167	2.08614	102.3
	48 Biphenyl	154	8.144	8.138	(0.918)	11591	0.10763	5.278
	49 2,6-Dimethylnaphthalene	156	8.339	8.333	(0.940)	19738	0.24264	11.90
	50 2,3,5-Trimethylnaphthalene	170	9.350	9.355	(1.054)	8633	0.13435	6.588
	51 1-Methylphenanthrene	192	11.483	11.477	(0.821)	27244	0.35098	17.21
	52 Benzo(e)pyrene	252	15.756	15.744	(0.990)	245227	2.53051	124.1
	53 Perylene	252	15.957	15.939	(1.003)	462628	5.11614	250.9

QC Flag Legend

M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43g.d
Lab Smp Id: JU43G
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15851

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-04-D
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	353358	3.46
8 Acenaphthene-d10	169375	84688	338750	173658	2.53
15 Phenanthrene-d10	232185	116092	464370	220377	-5.09
23 Chrysene-d12	179856	89928	359712	164456	-8.56
31 Perylene-d12	175373	87686	350746	170311	-2.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.01
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.00
23 Chrysene-d12	13.99	13.49	14.49	14.00	0.05
31 Perylene-d12	15.90	15.40	16.40	15.92	0.11

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

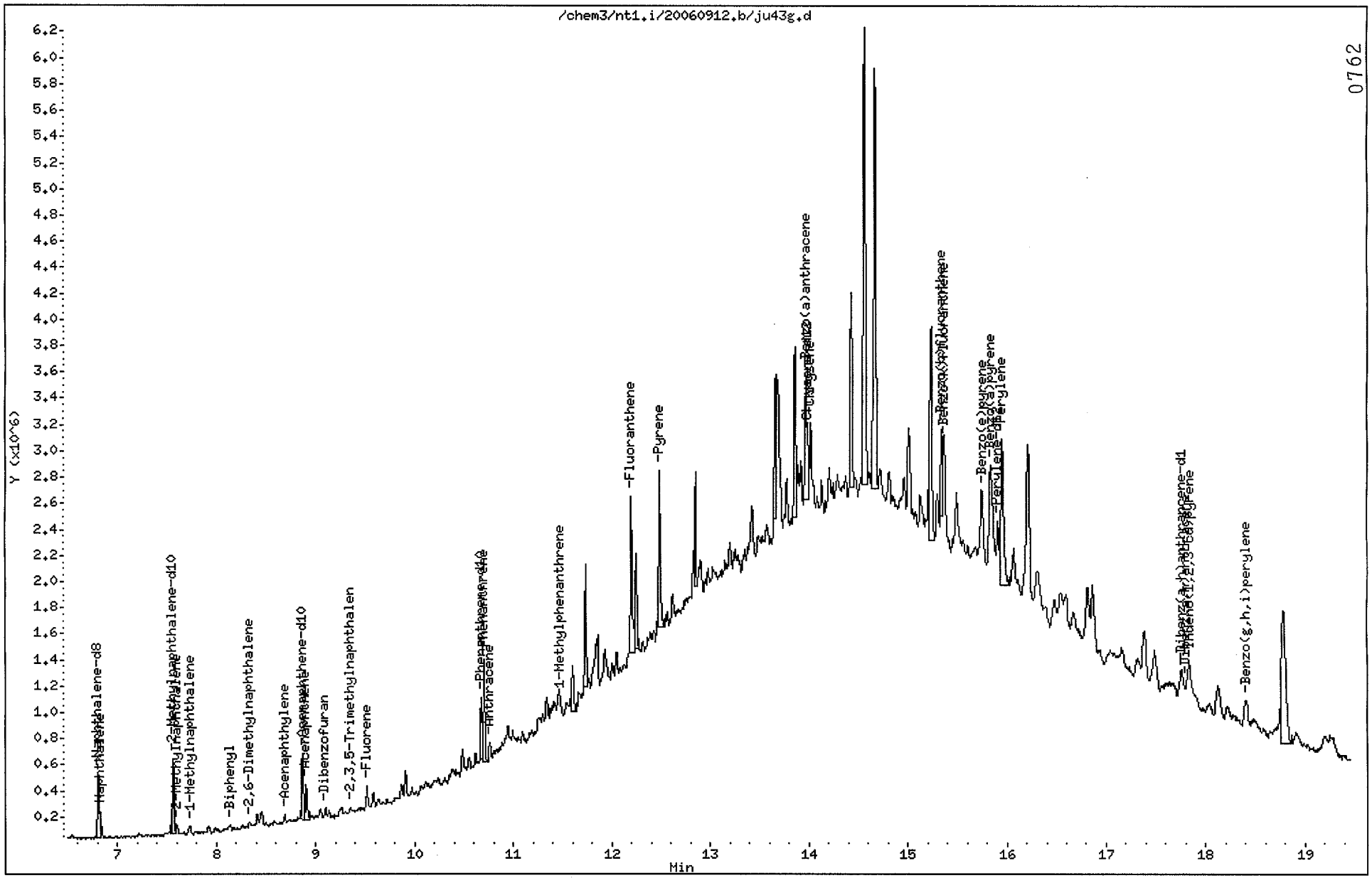
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43G
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15851

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-04-D
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.1	130.1	88.43	32-97
$ 32 Dibenz(a,h)anthran	147.1	119.6	81.29	21-105

Data File: /chem3/nt1.i/20060912.b/ju43g.d
Date : 12-SEP-2006 15:56
Client ID: T4-B414-04-D
Sample Info: JU43G
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

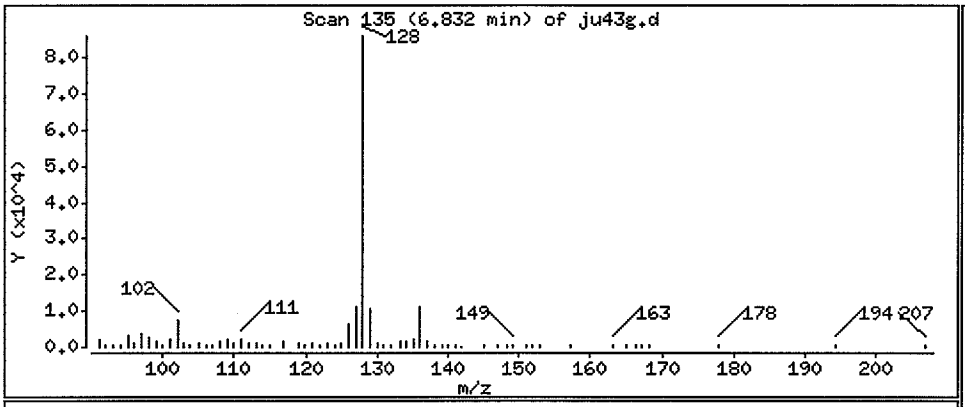
Operator: VTS

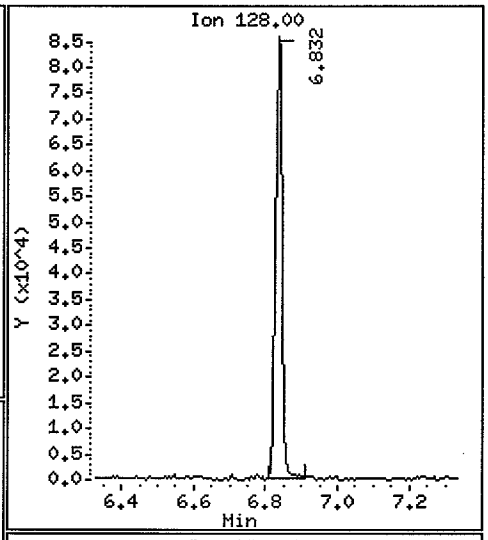
Column phase: ZB-5

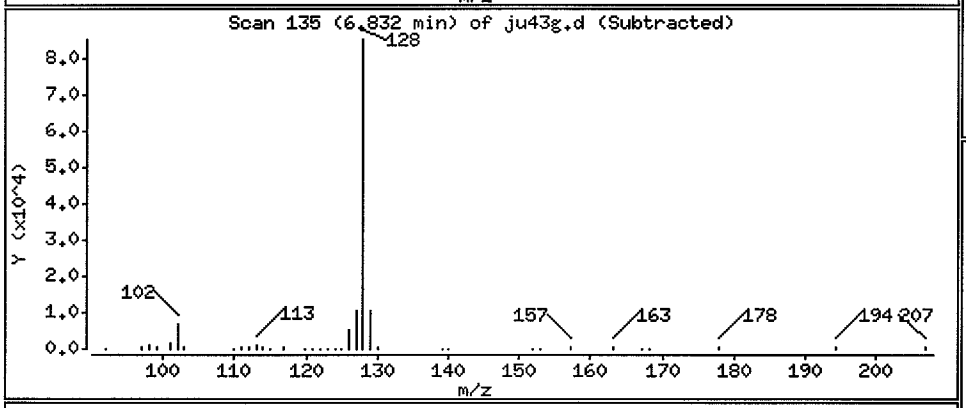
Column diameter: 0.25

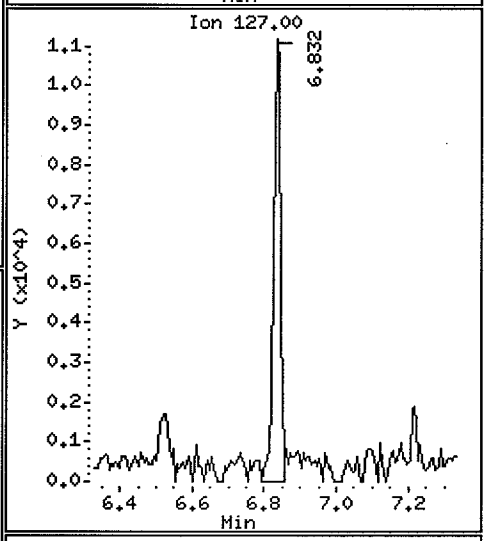
2 Naphthalene

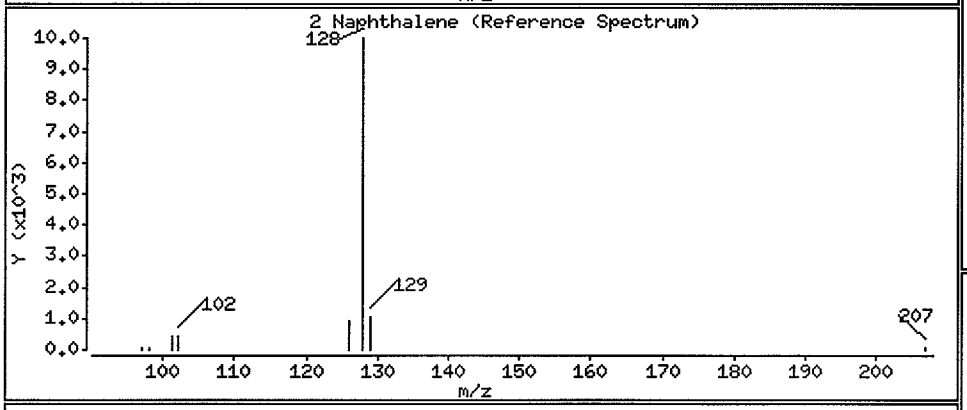
Concentration: 28.57 ug/kg

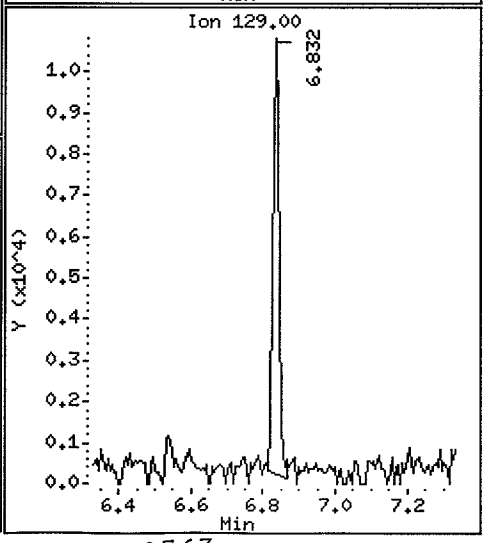


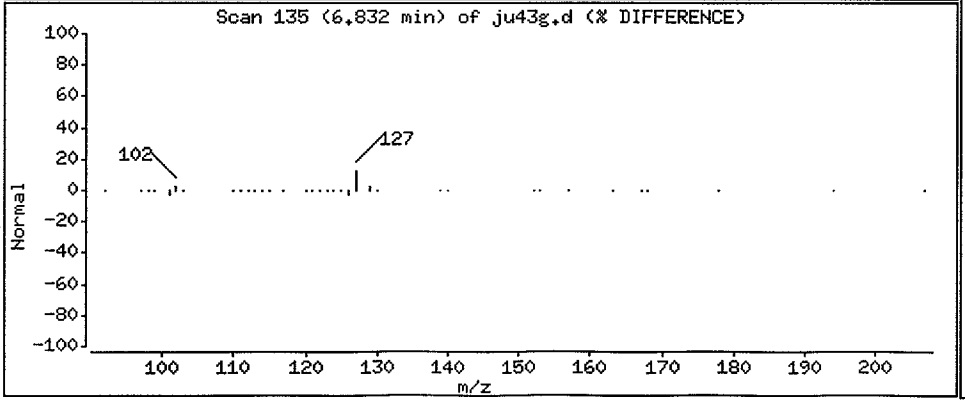












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

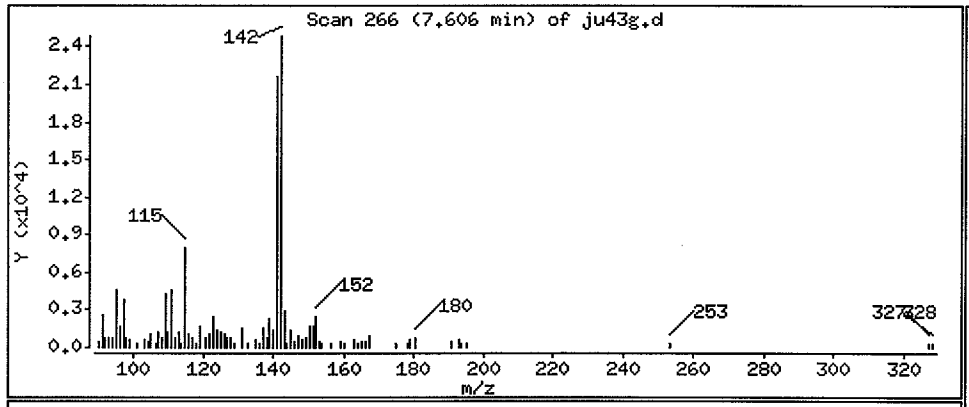
Operator: VTS

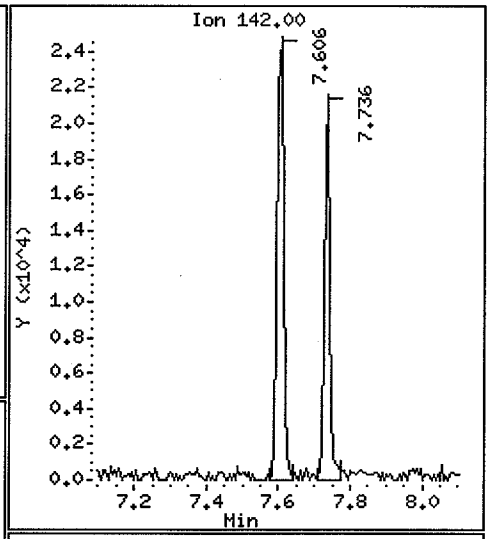
Column phase: ZB-5

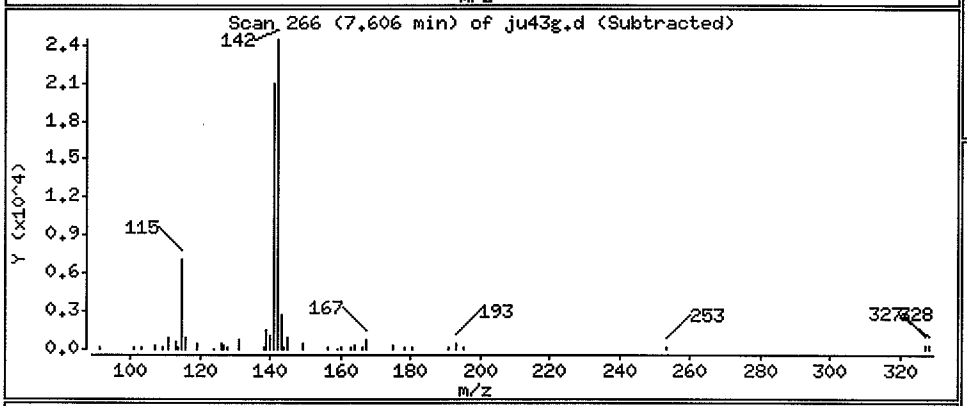
Column diameter: 0.25

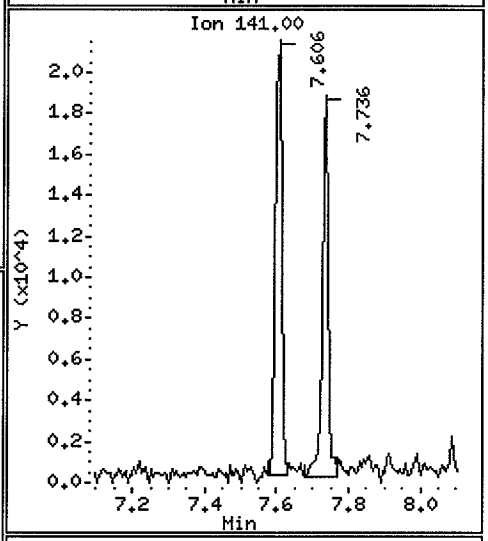
4 2-Methylnaphthalene

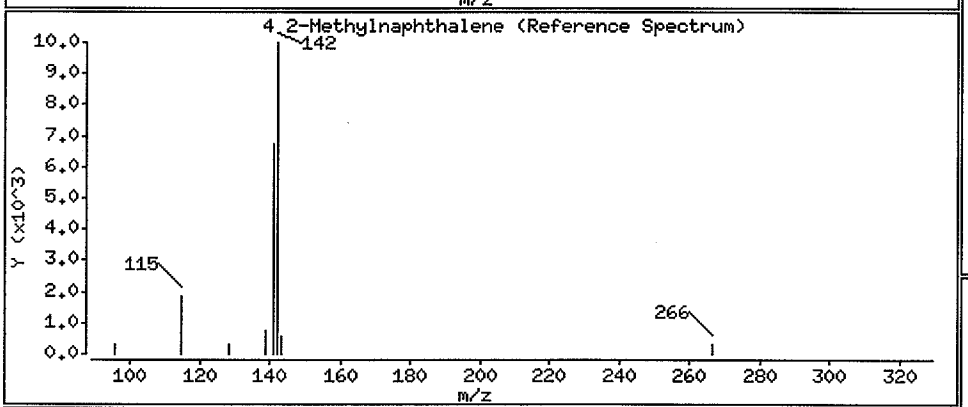
Concentration: 15.11 ug/kg

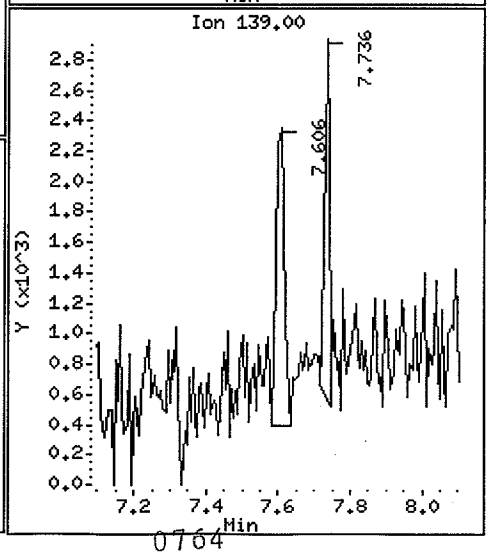


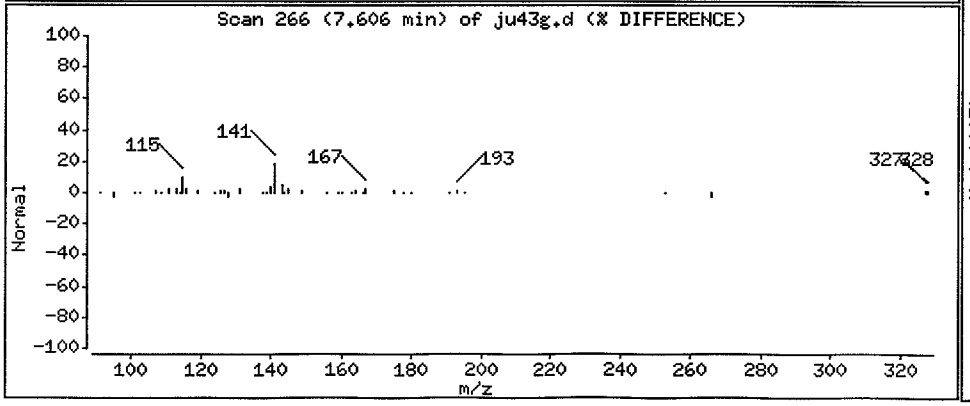












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

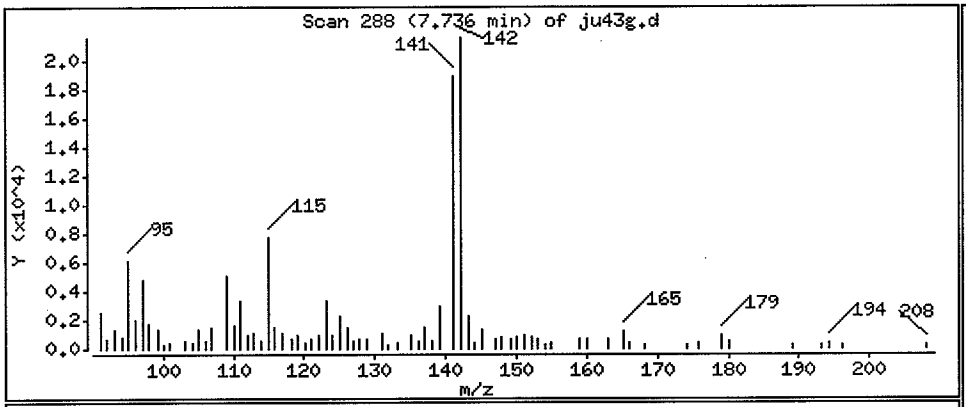
Operator: VTS

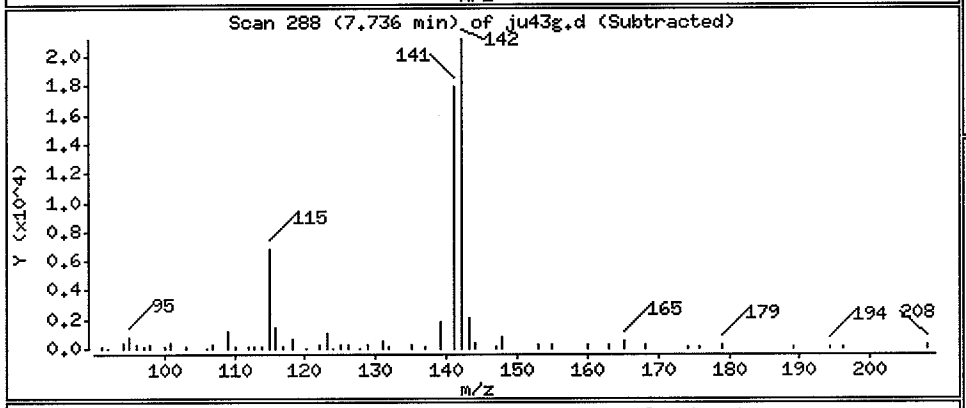
Column phase: ZB-5

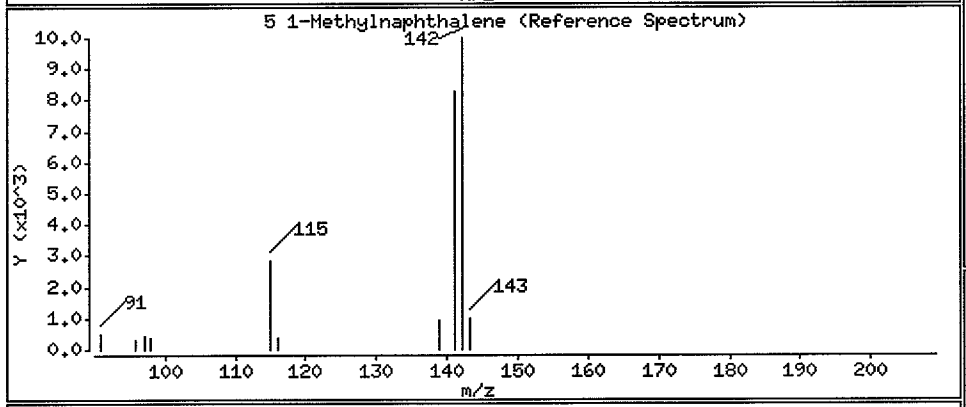
Column diameter: 0.25

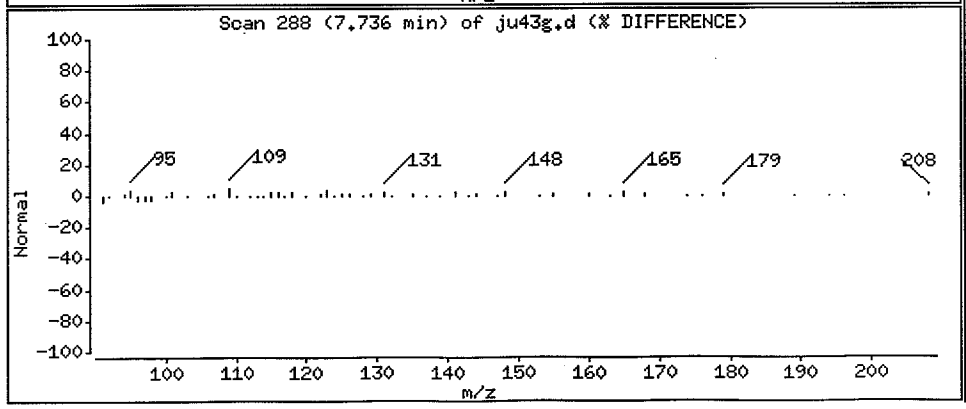
5 1-Methylnaphthalene

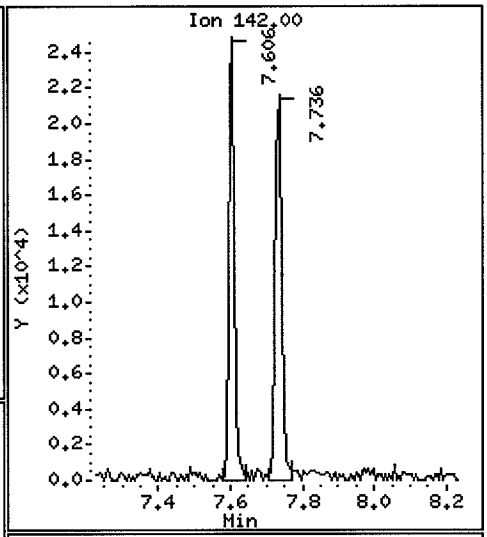
Concentration: 12.15 ug/kg

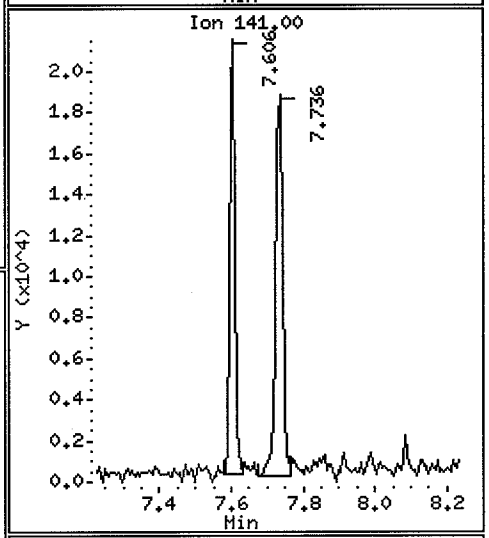


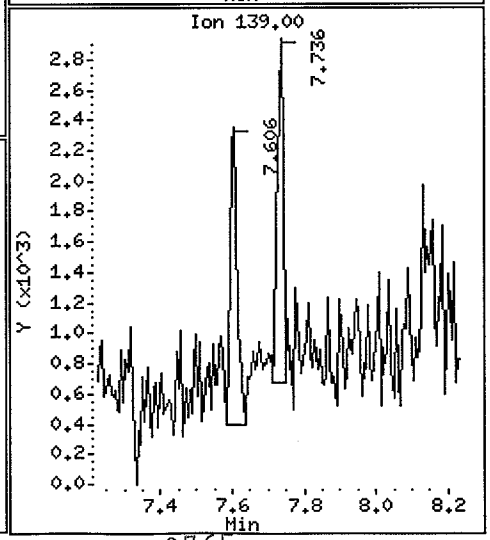












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

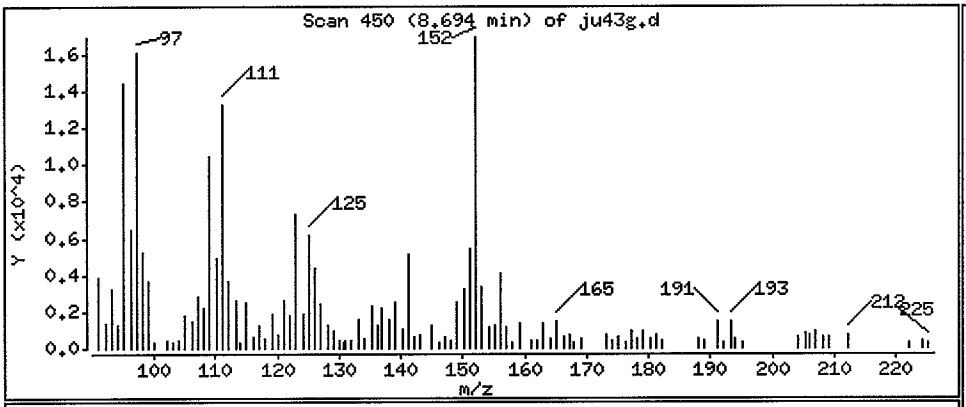
Operator: VTS

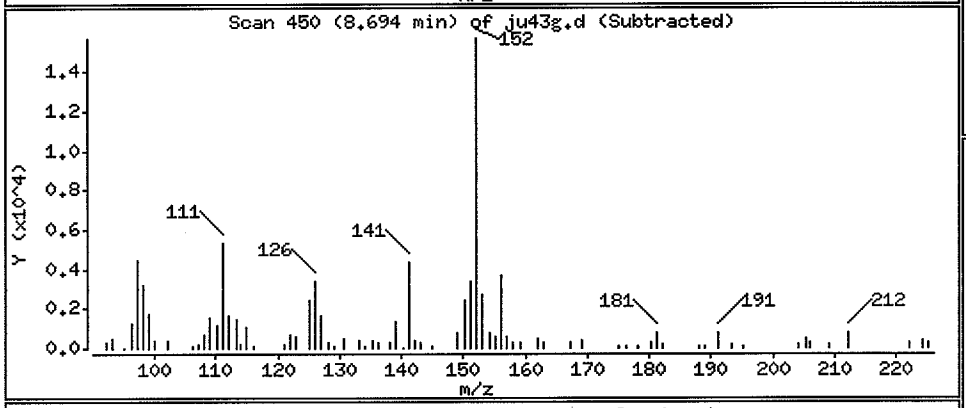
Column phase: ZB-5

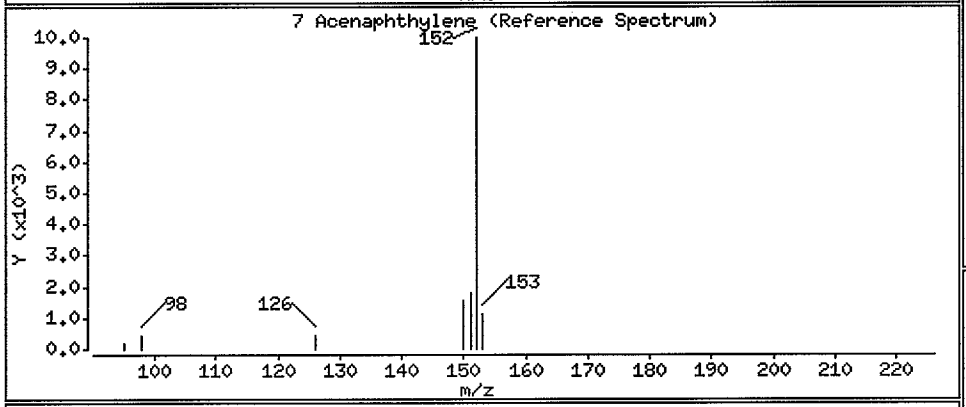
Column diameter: 0.25

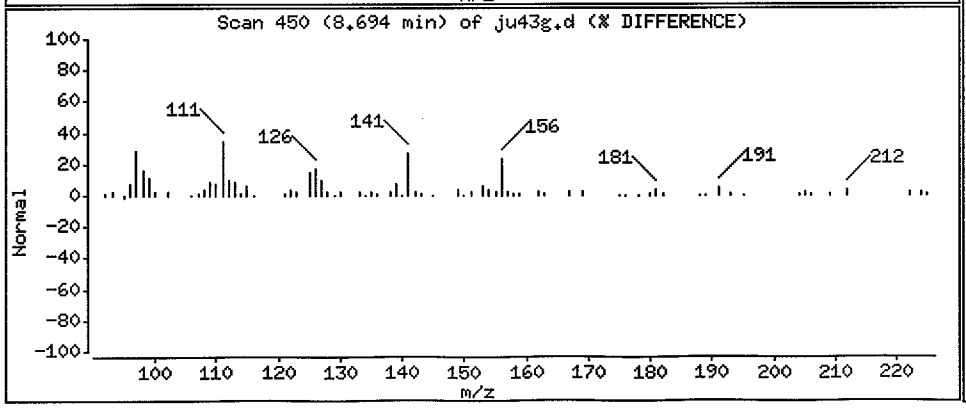
7 Acenaphthylene

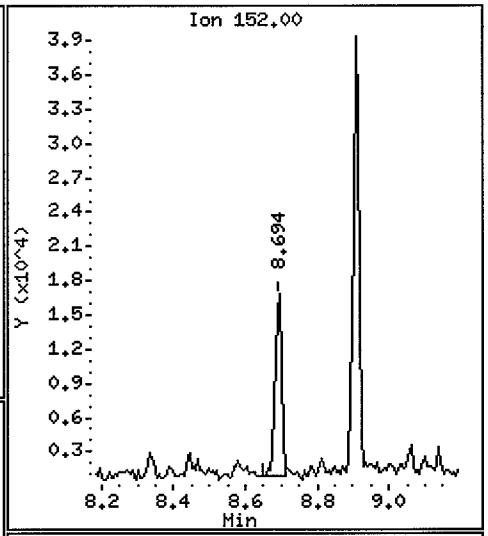
Concentration: 6.551 ug/kg

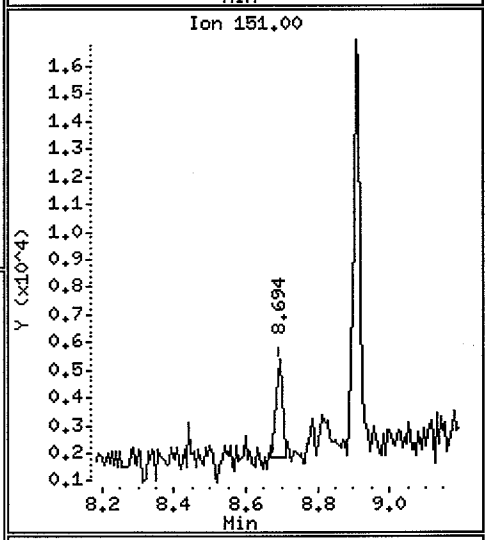


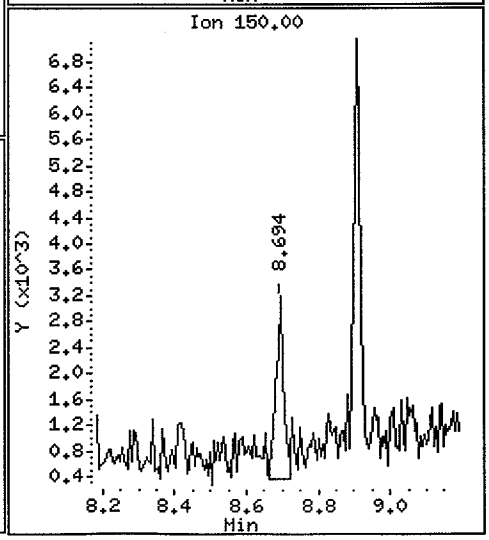












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

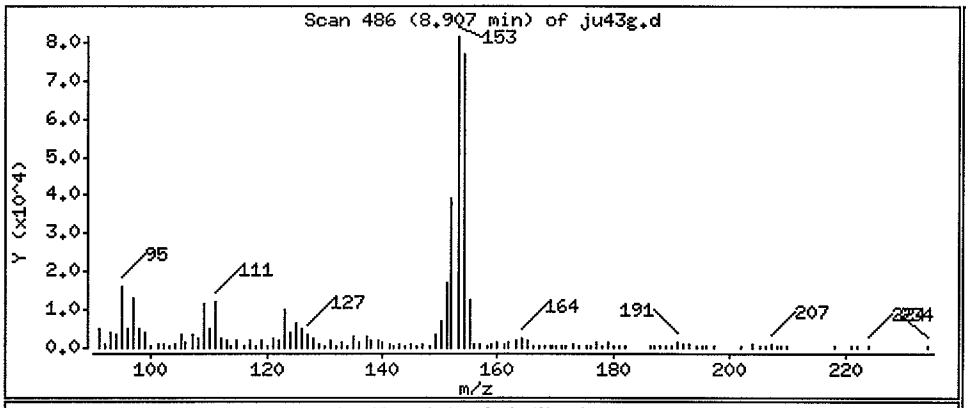
Operator: VTS

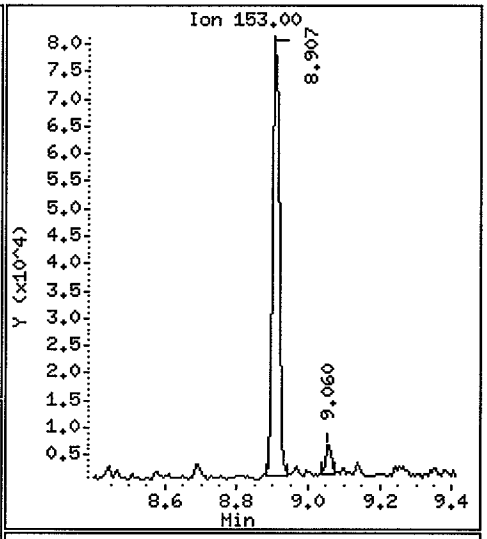
Column phase: ZB-5

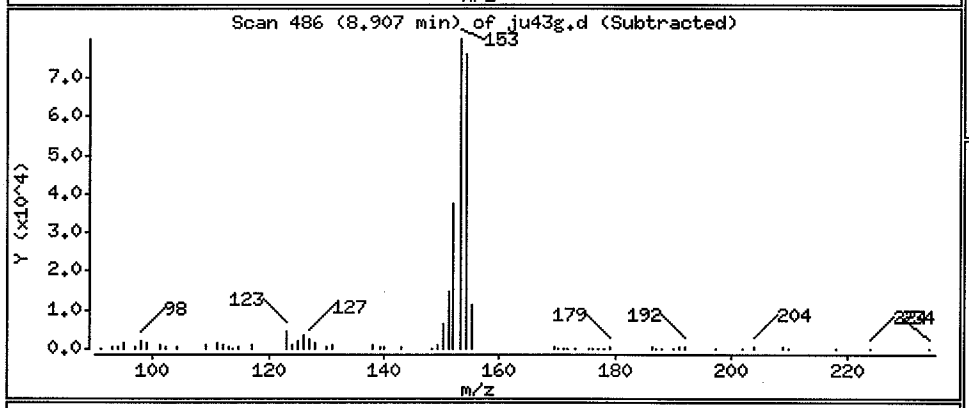
Column diameter: 0.25

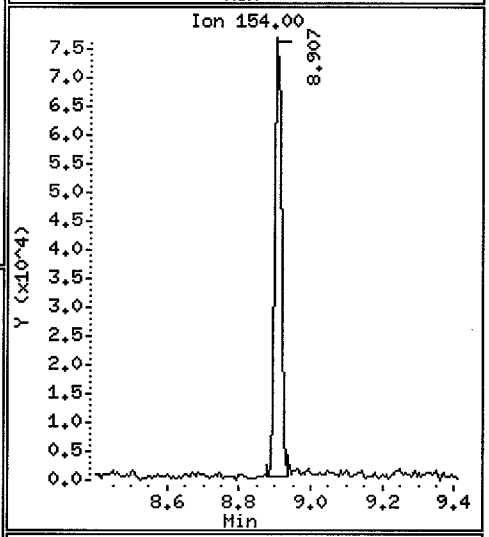
9 Acenaphthene

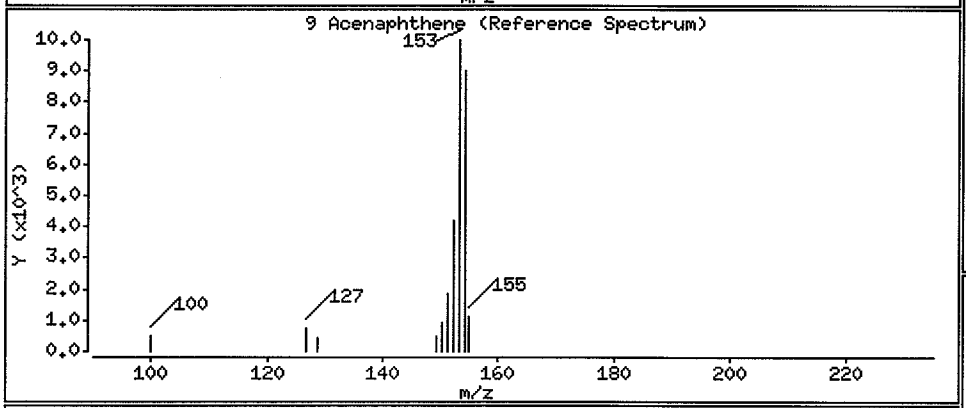
Concentration: 50.77 ug/kg

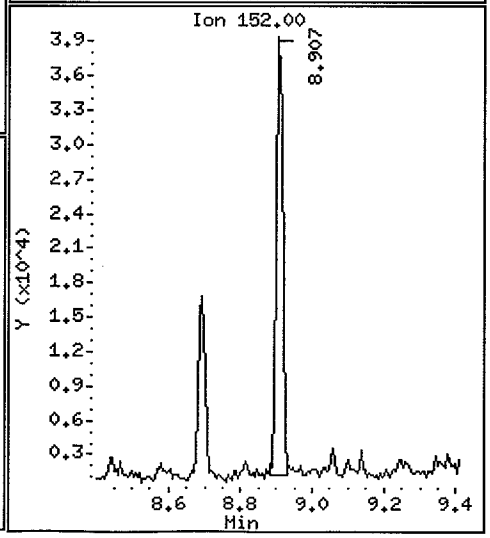


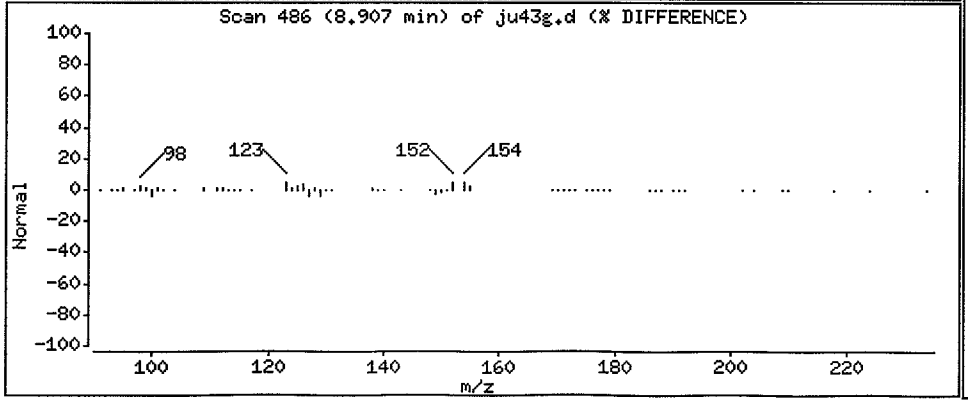












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

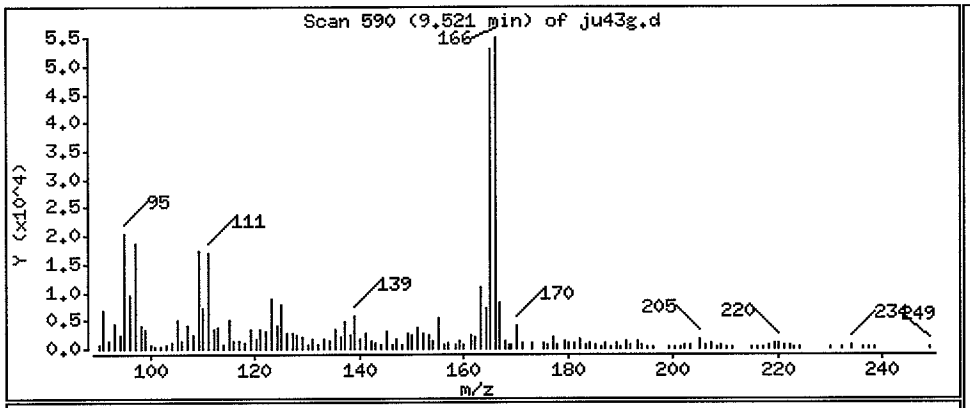
Operator: VTS

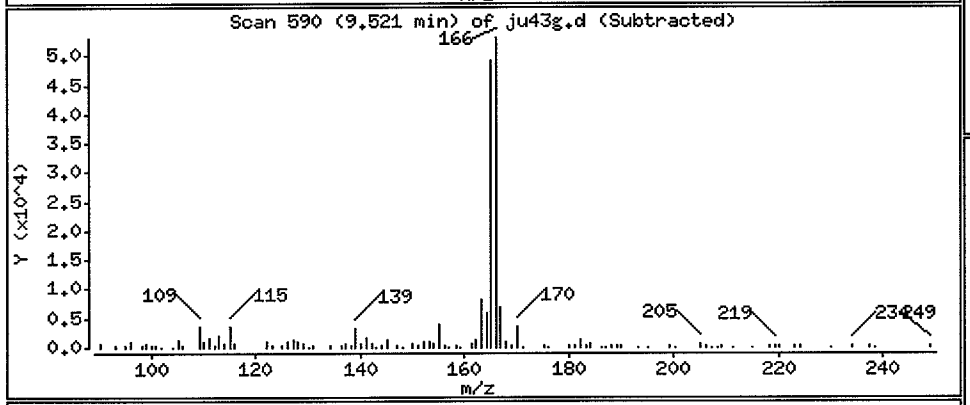
Column phase: ZB-5

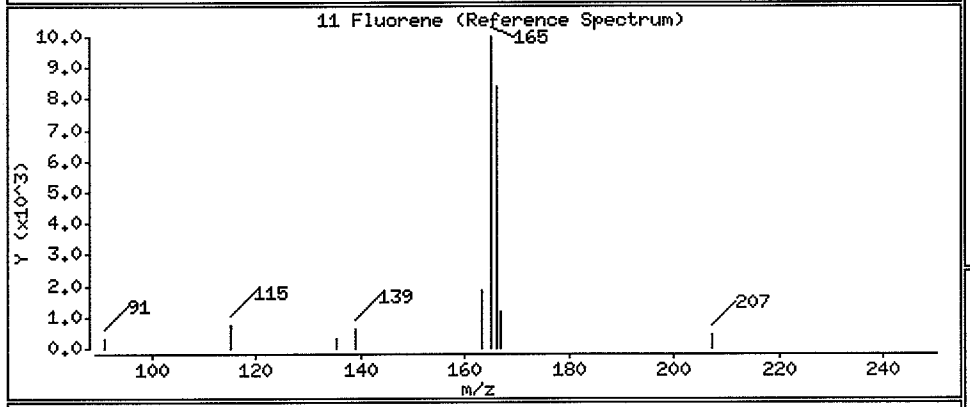
Column diameter: 0.25

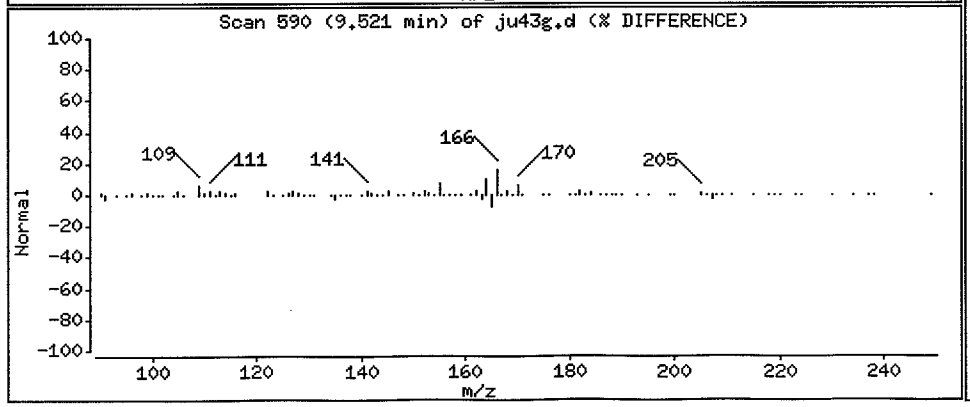
11 Fluorene

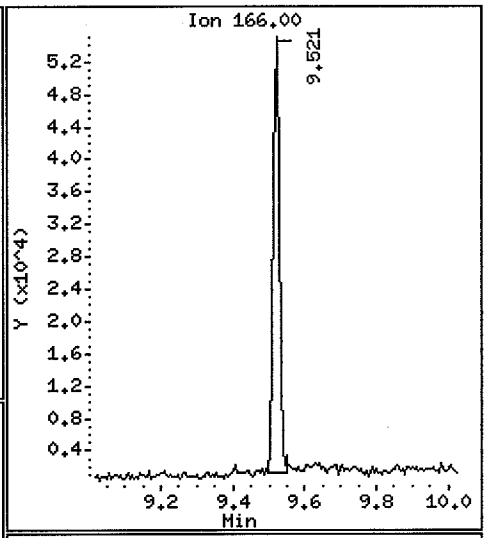
Concentration: 29.93 ug/kg

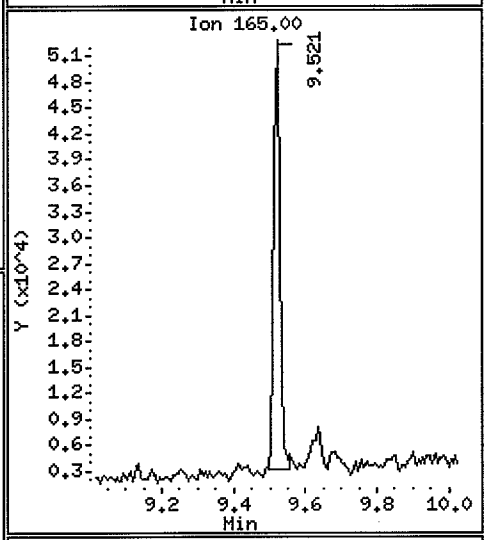


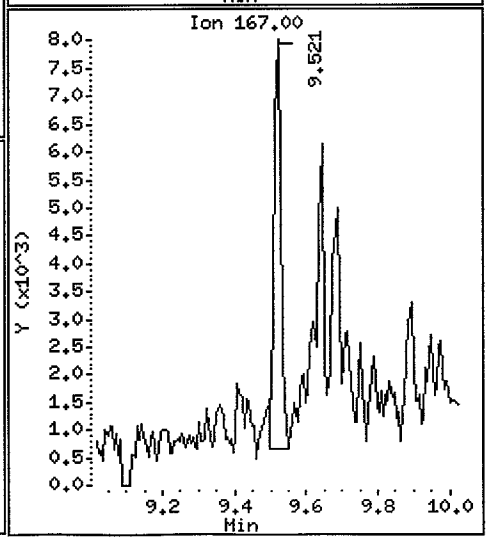












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

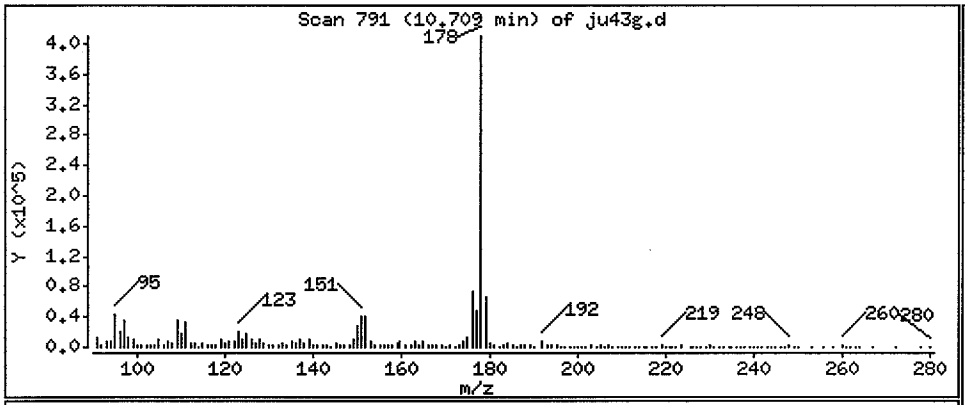
Operator: VTS

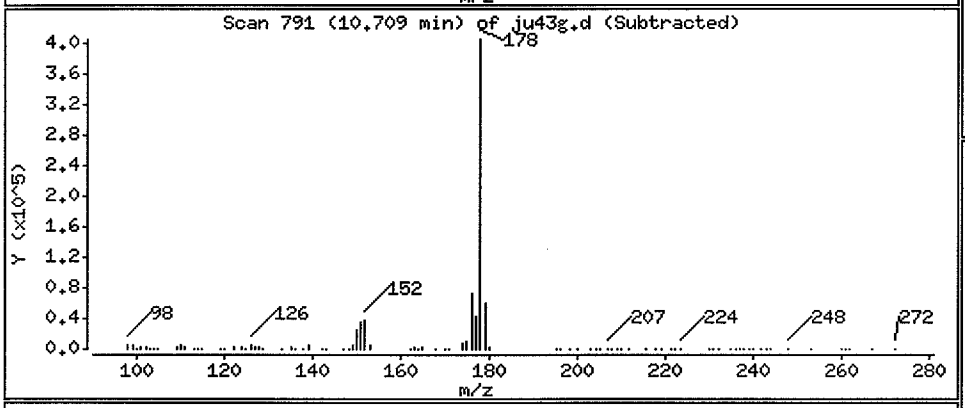
Column phase: ZB-5

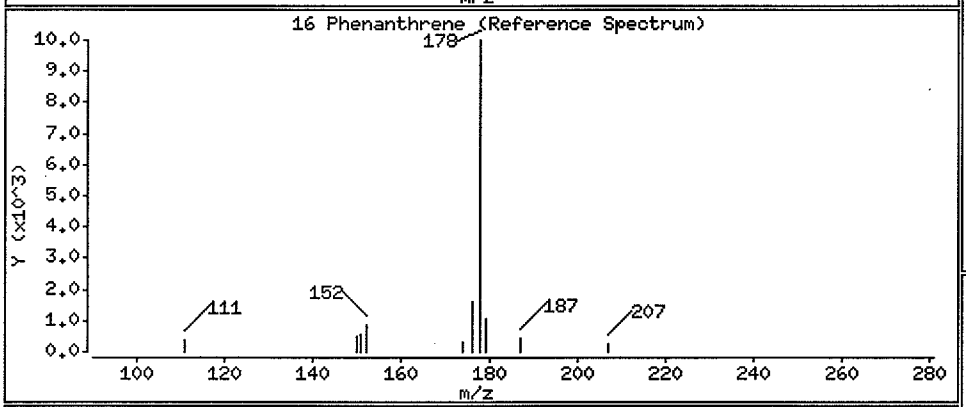
Column diameter: 0.25

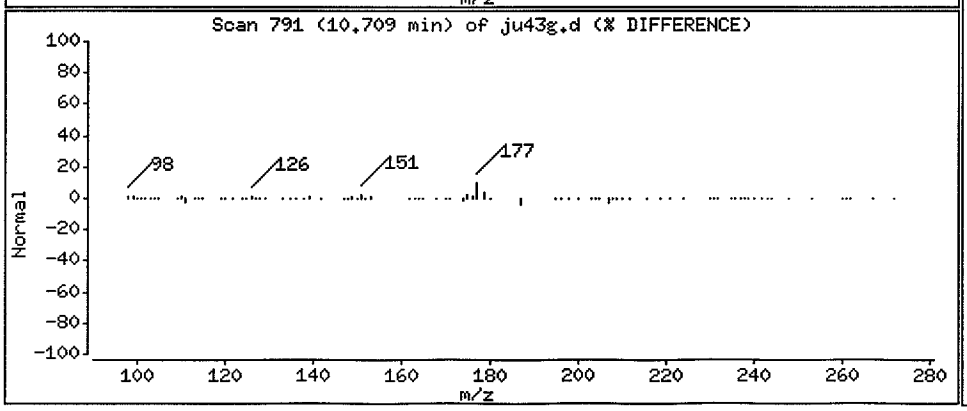
16 Phenanthrene

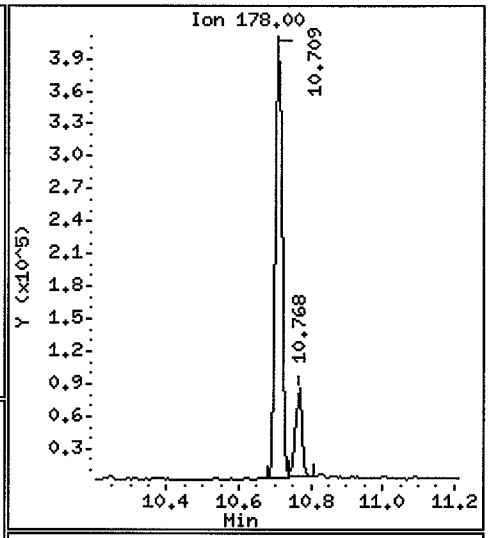
Concentration: 190.1 ug/kg

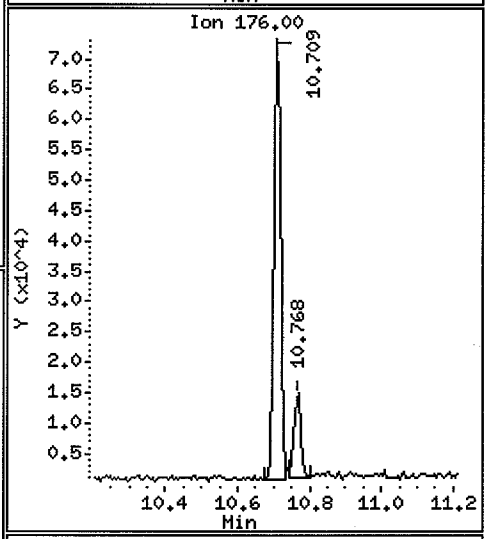


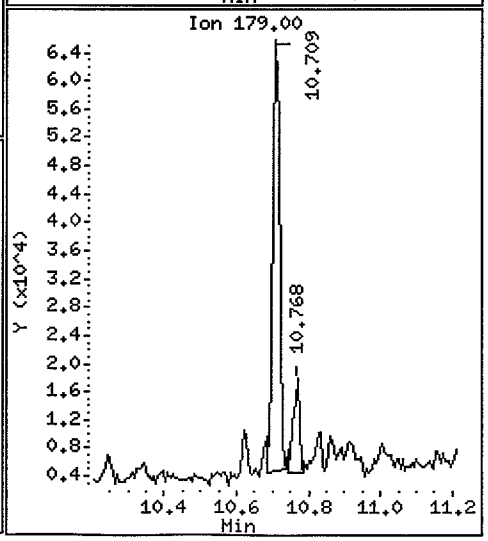












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

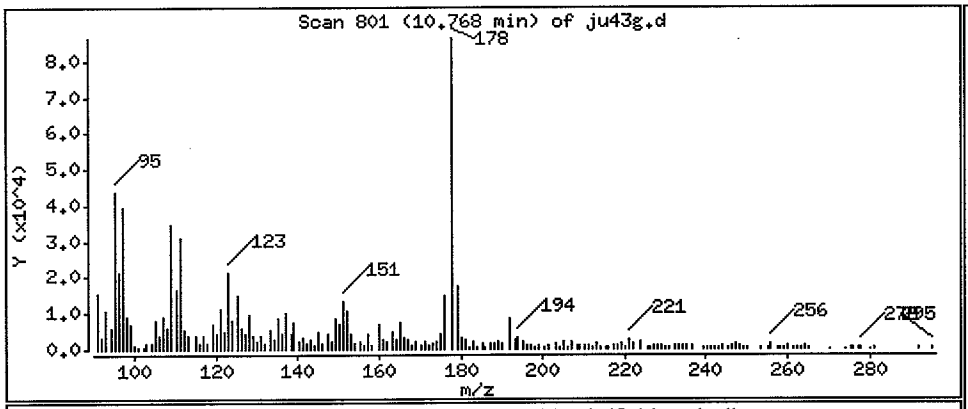
Operator: VTS

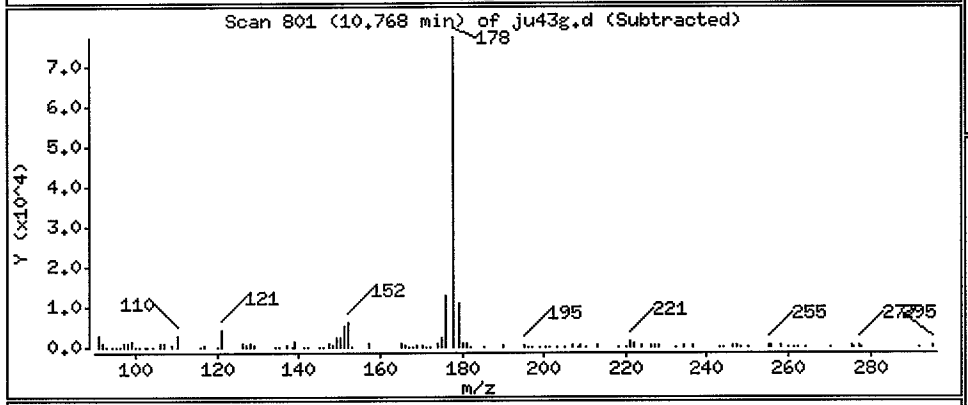
Column phase: ZB-5

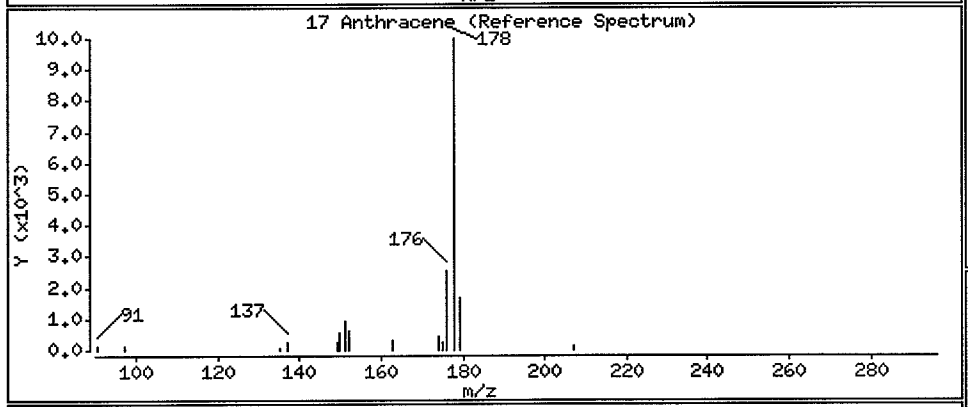
Column diameter: 0.25

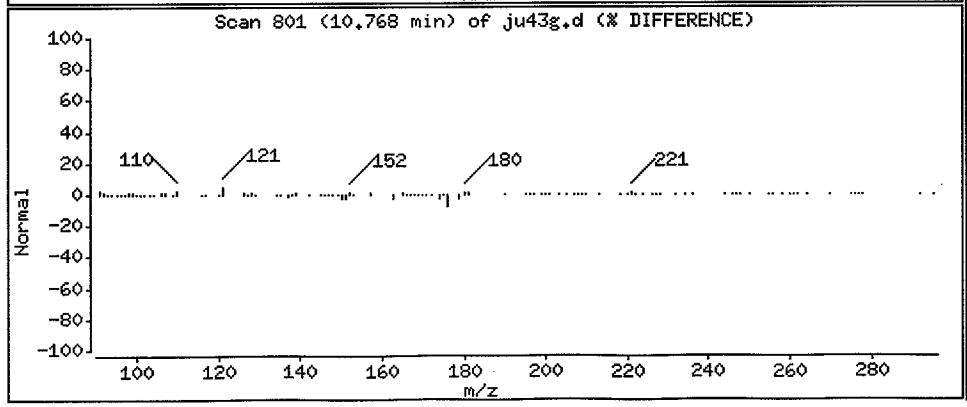
17 Anthracene

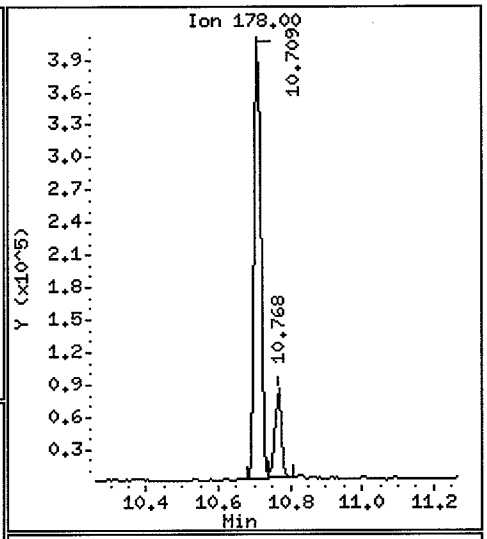
Concentration: 39.31 ug/kg

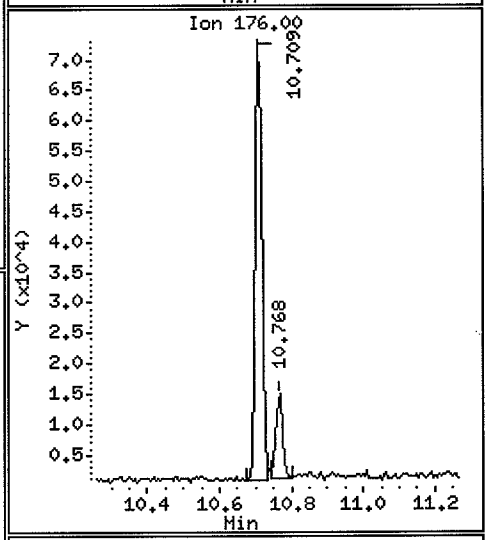


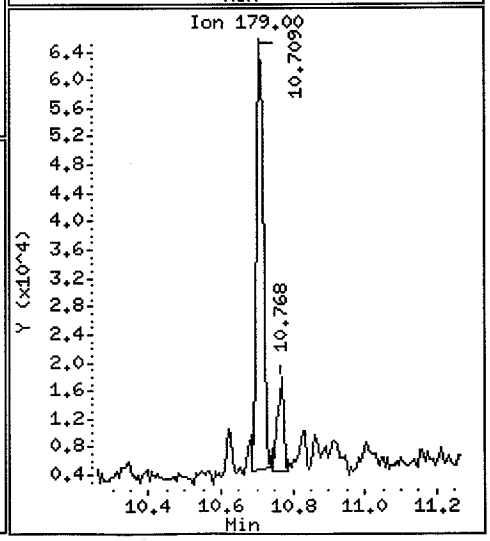












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

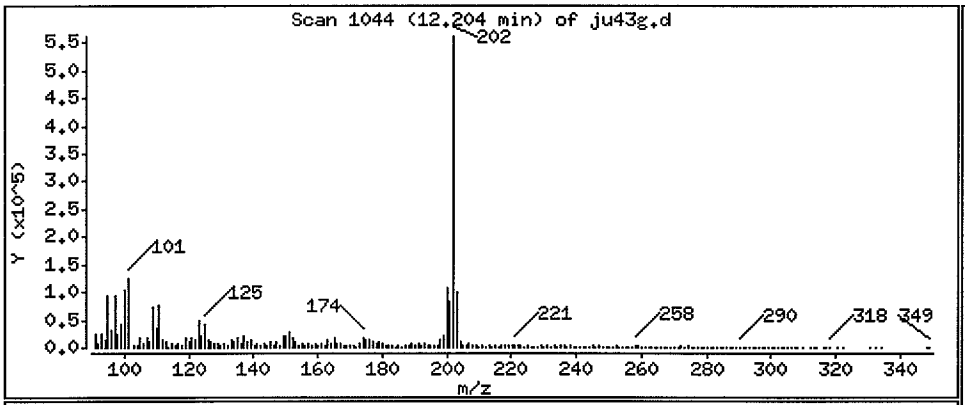
Operator: VTS

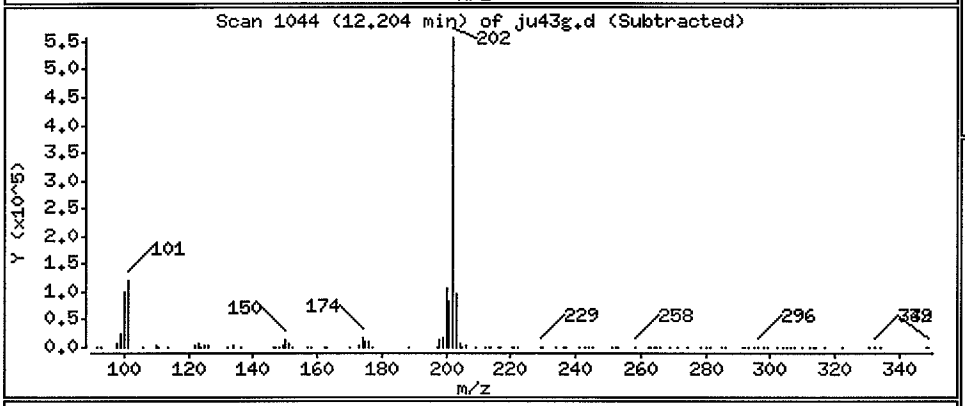
Column phase: ZB-5

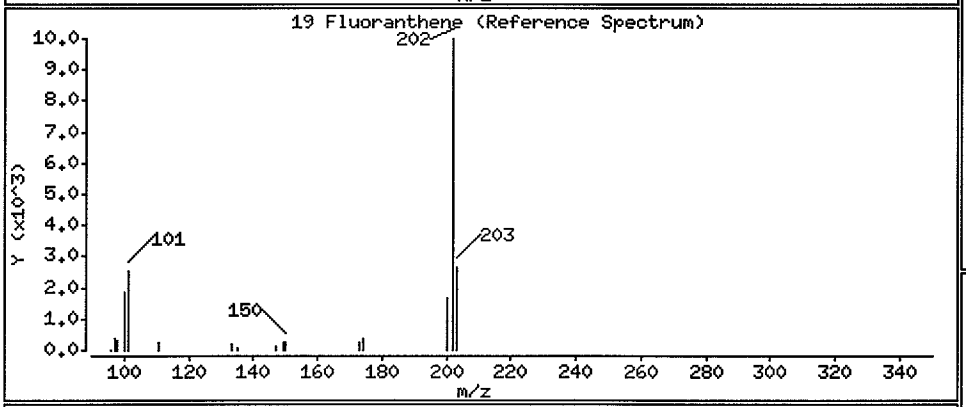
Column diameter: 0.25

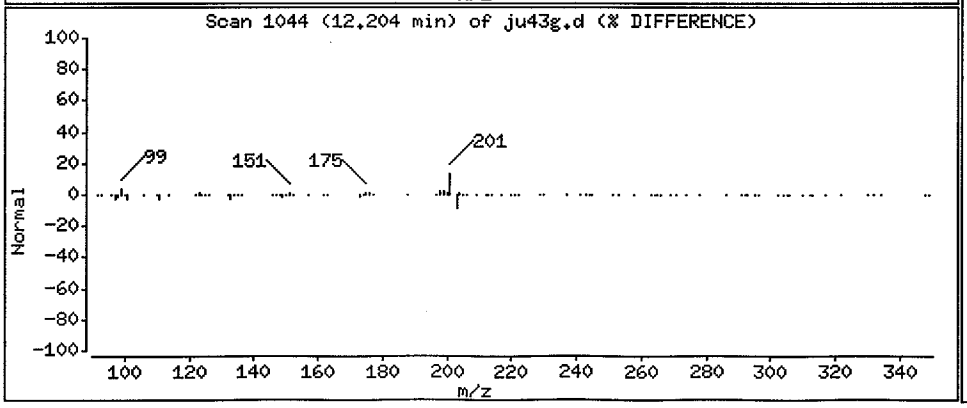
19 Fluoranthene

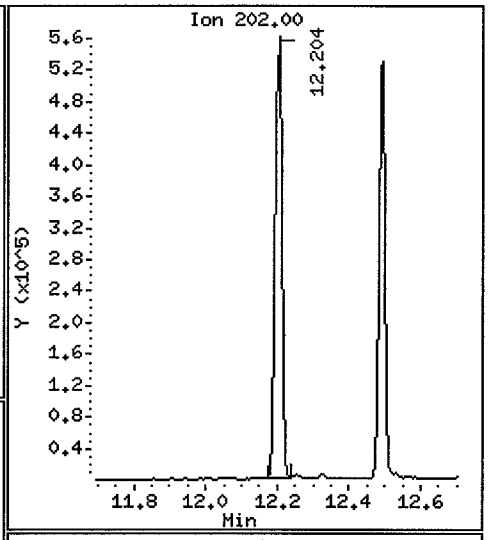
Concentration: 306.2 ug/kg

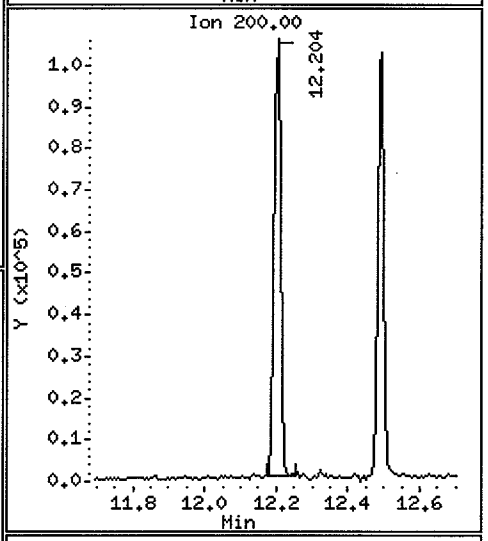


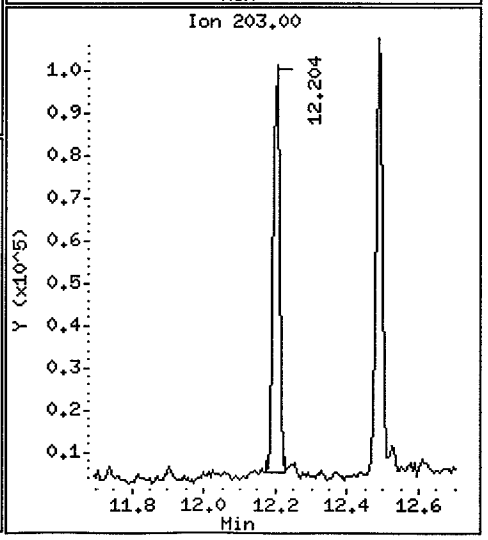












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

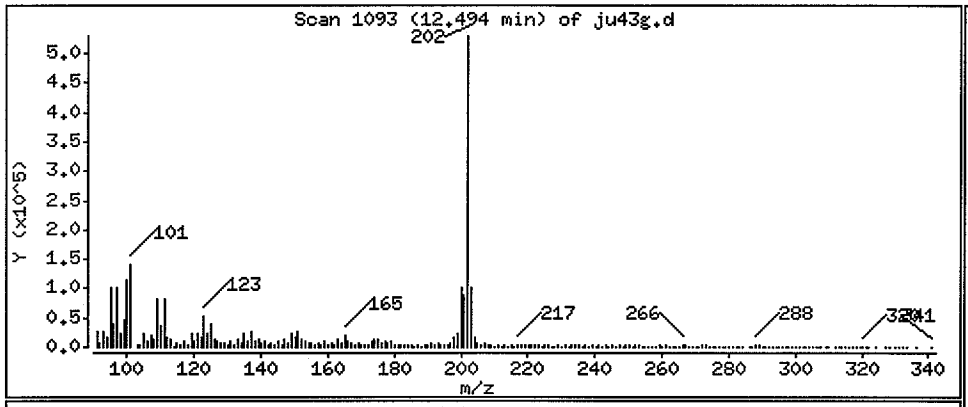
Operator: VTS

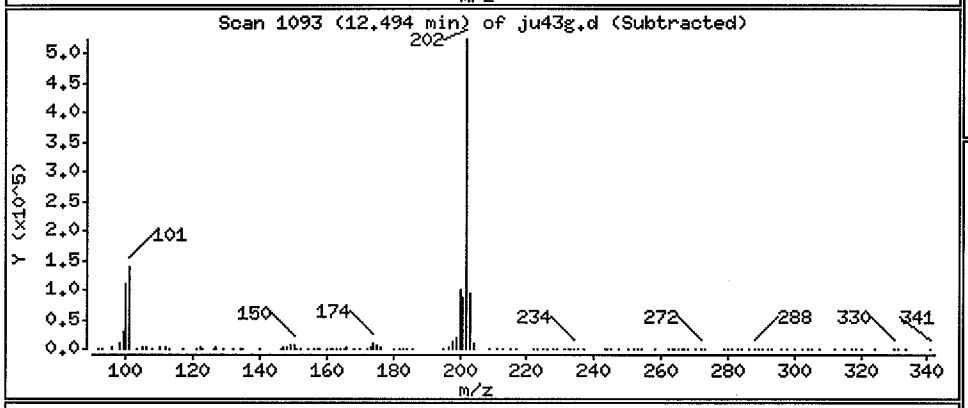
Column phase: ZB-5

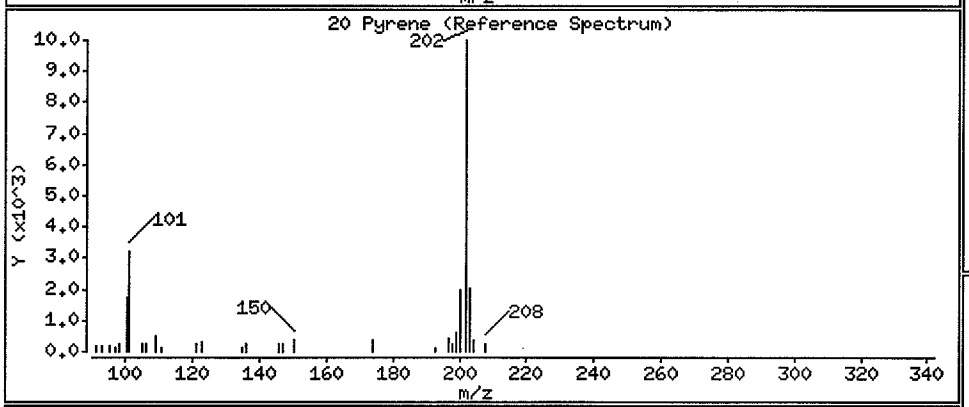
Column diameter: 0.25

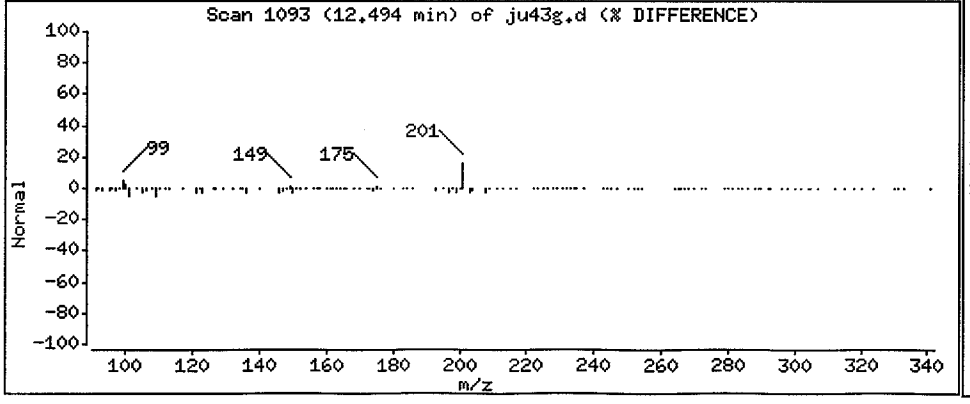
20 Pyrene

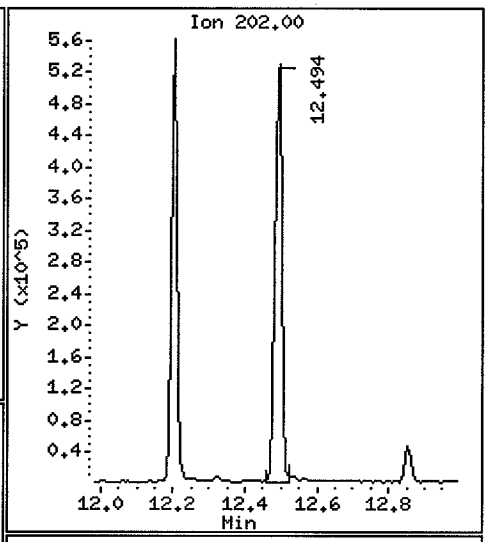
Concentration: 277.0 ug/kg

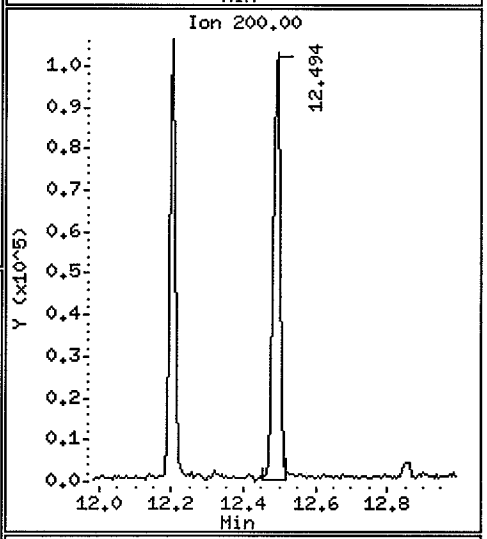


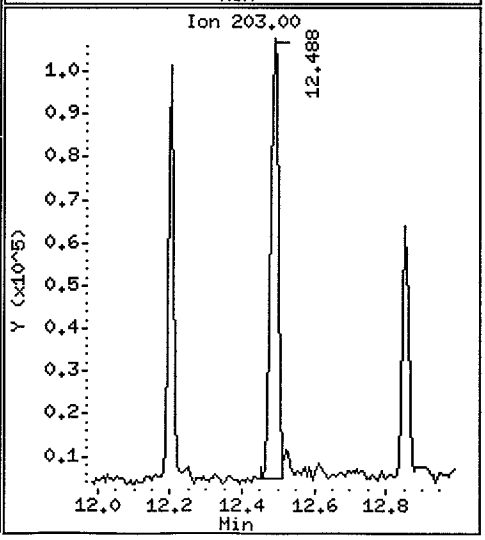












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

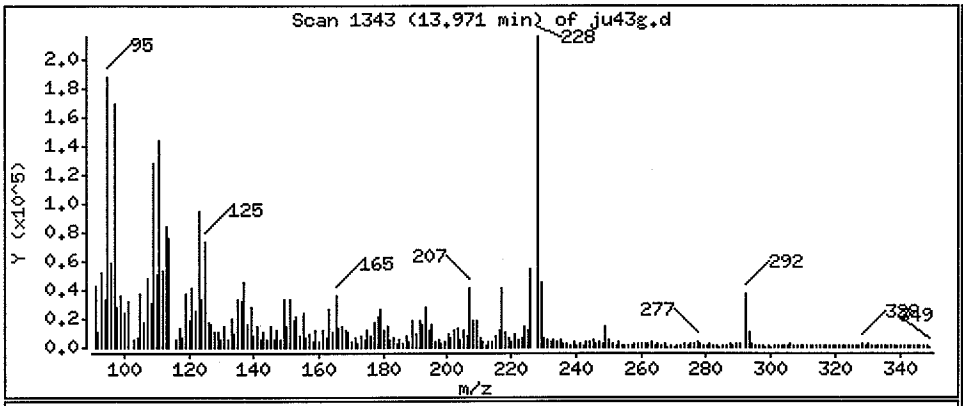
Operator: VTS

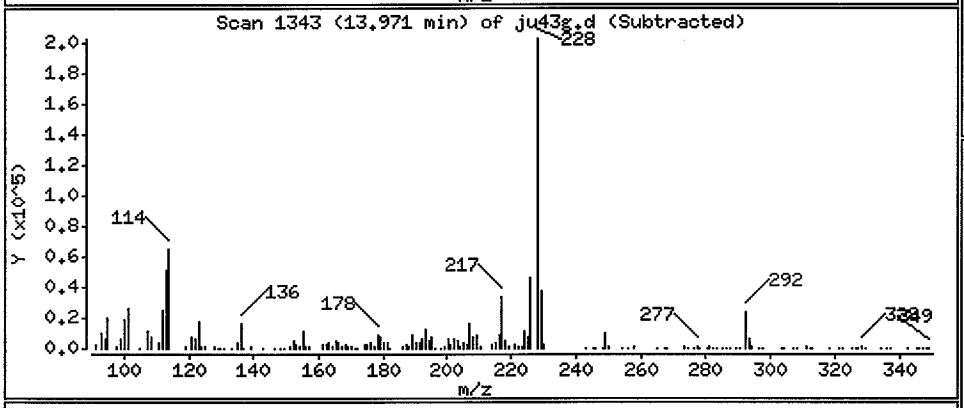
Column phase: ZB-5

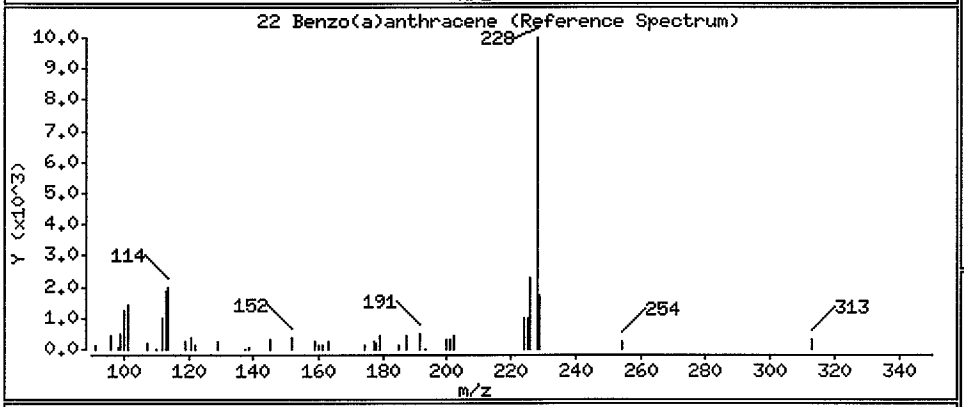
Column diameter: 0.25

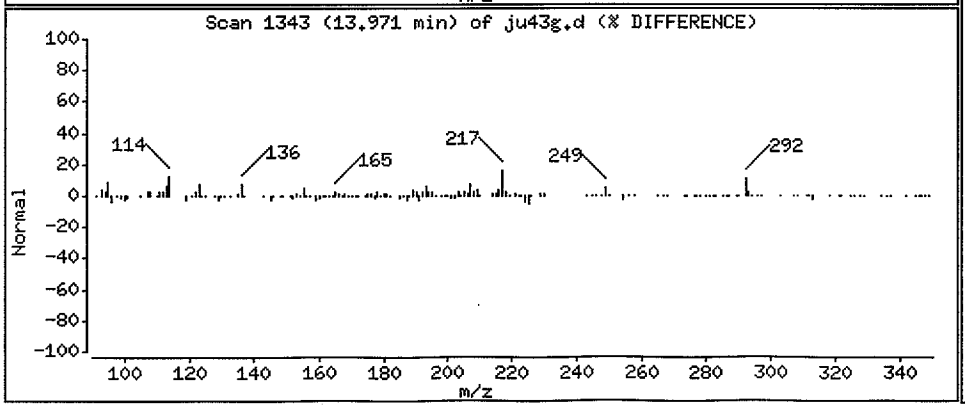
22 Benzo(a)anthracene

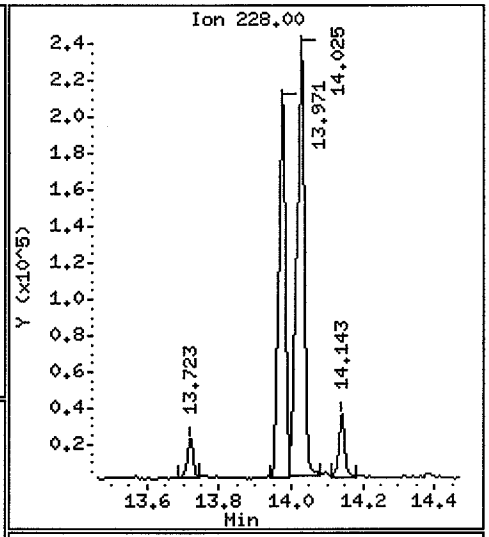
Concentration: 133.2 ug/kg

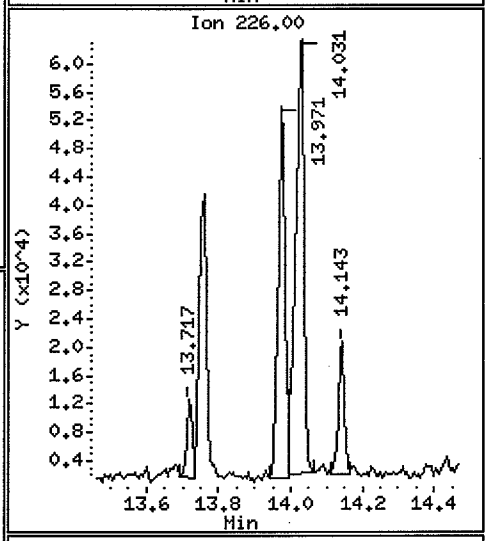


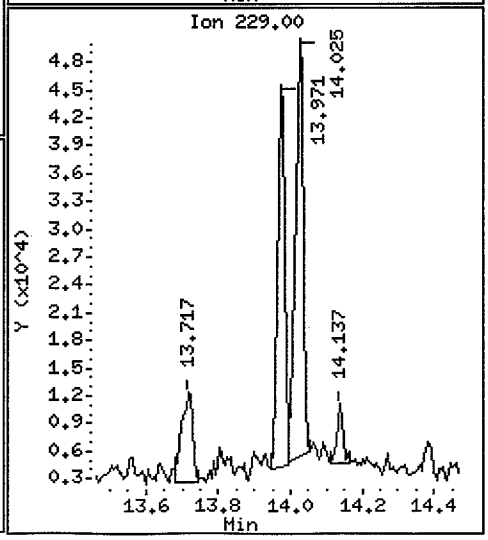












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

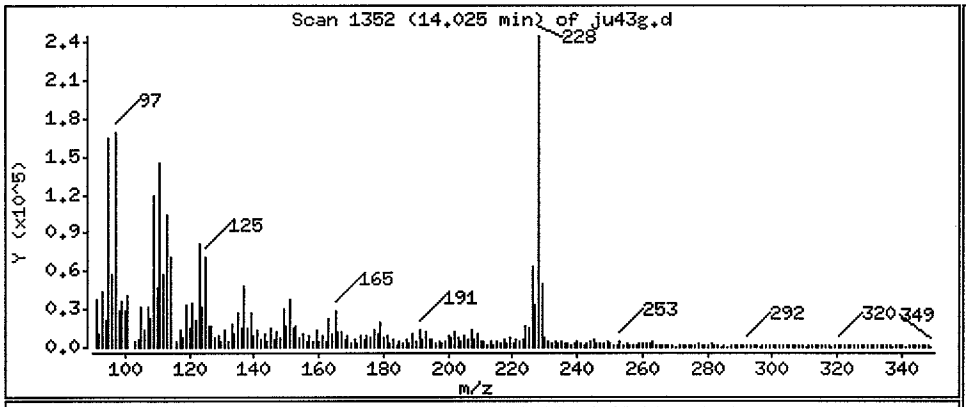
Operator: VTS

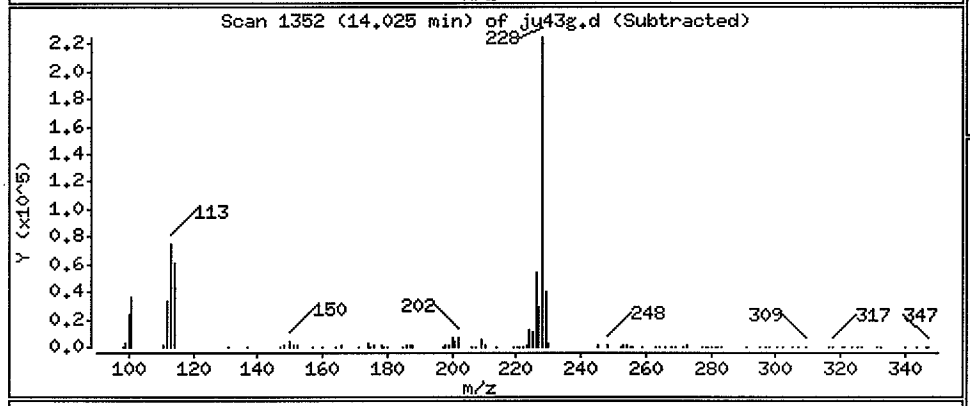
Column phase: ZB-5

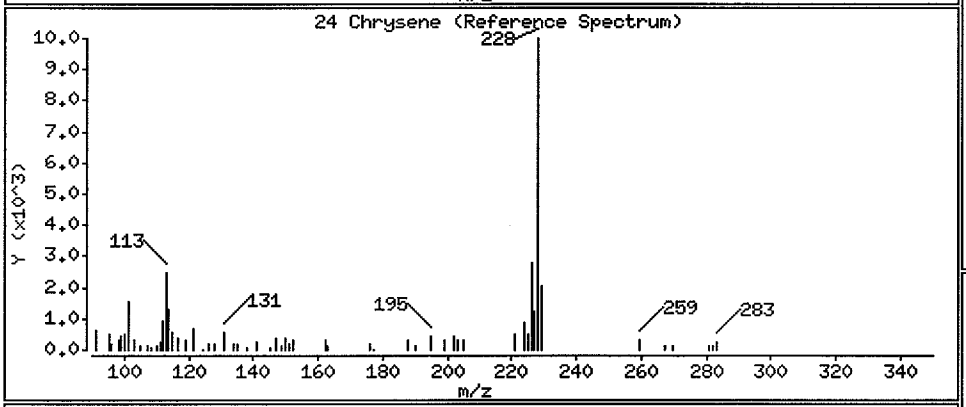
Column diameter: 0.25

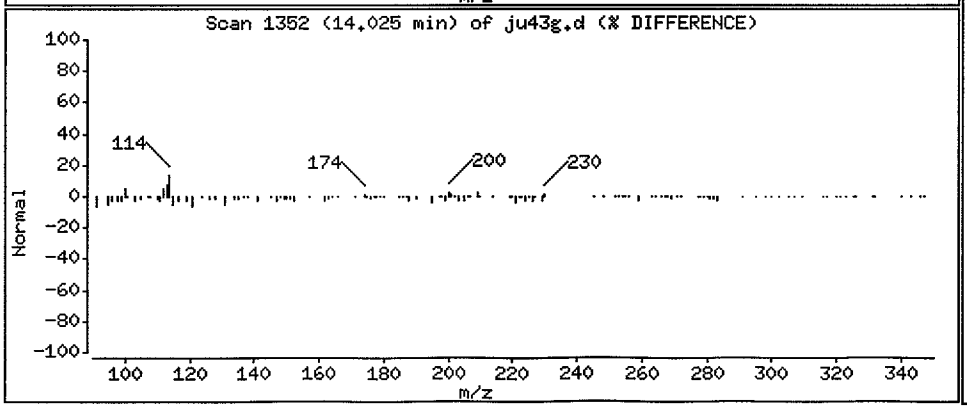
24 Chrysene

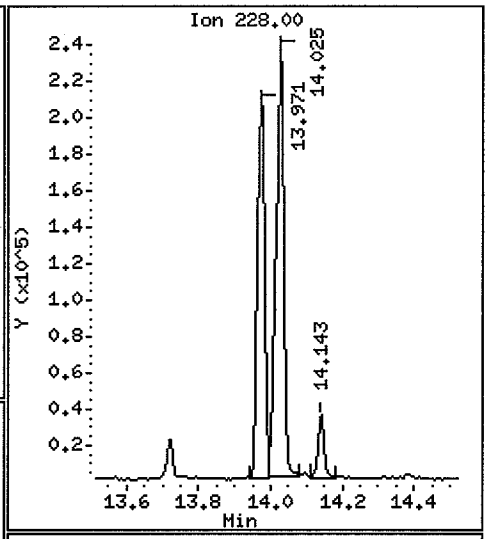
Concentration: 182.6 ug/kg

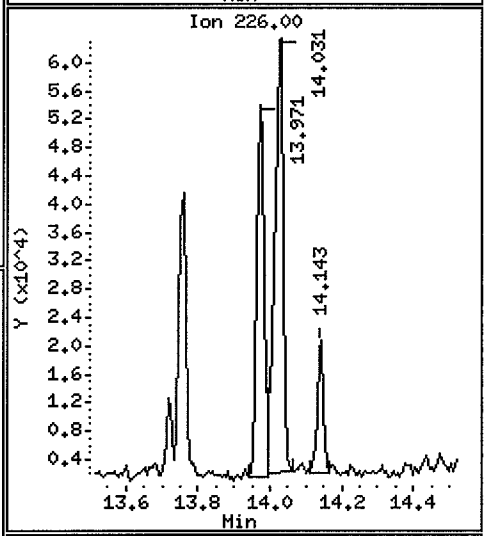


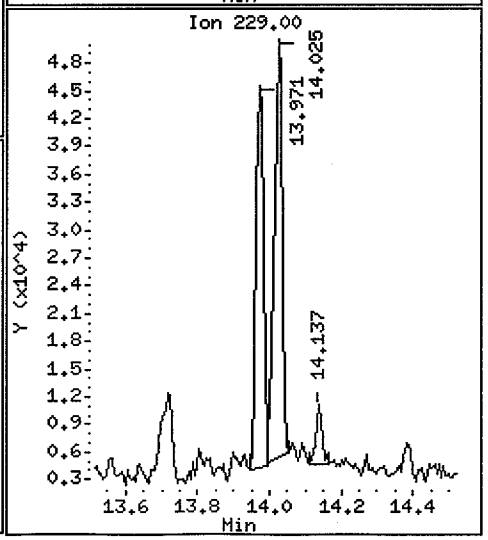












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

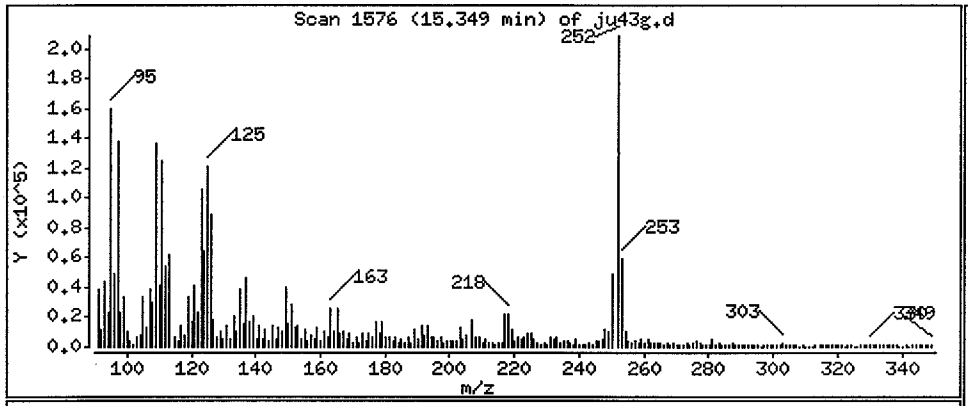
Operator: VTS

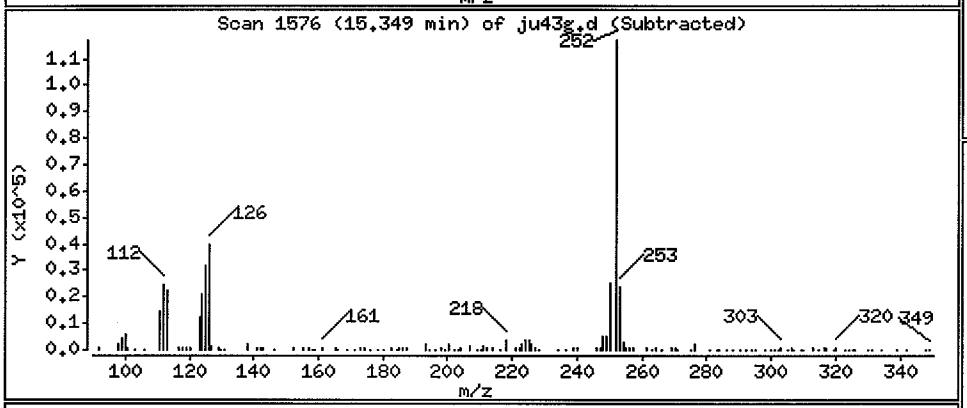
Column phase: ZB-5

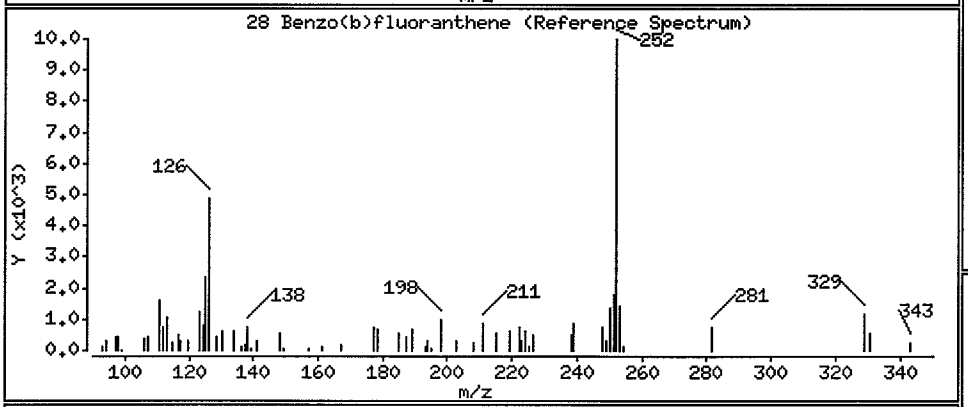
Column diameter: 0.25

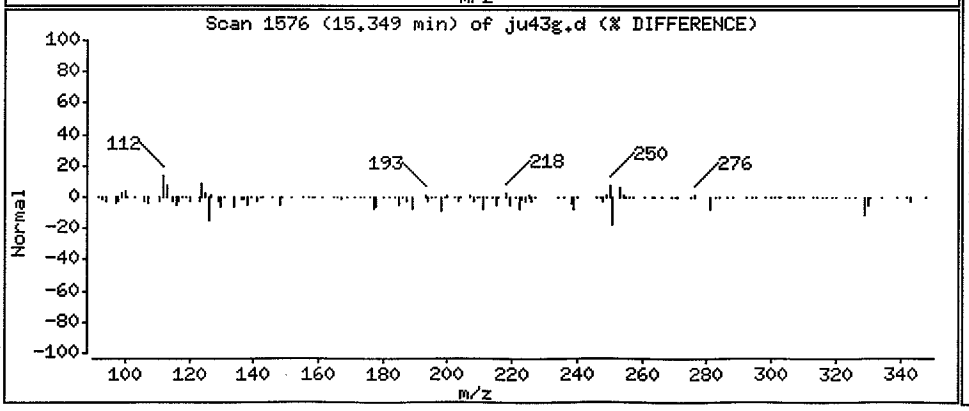
28 Benzo(b)fluoranthene

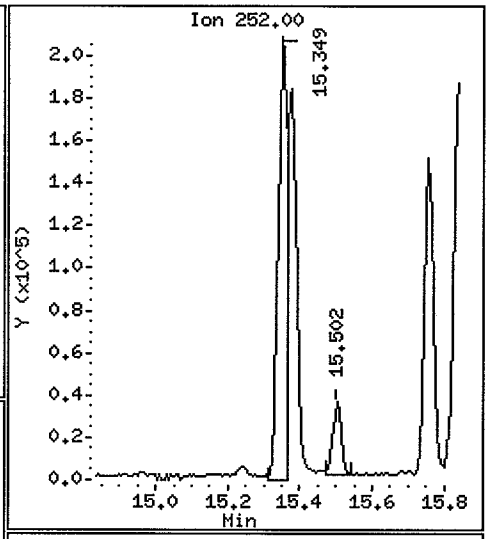
Concentration: 186.0 ug/kg

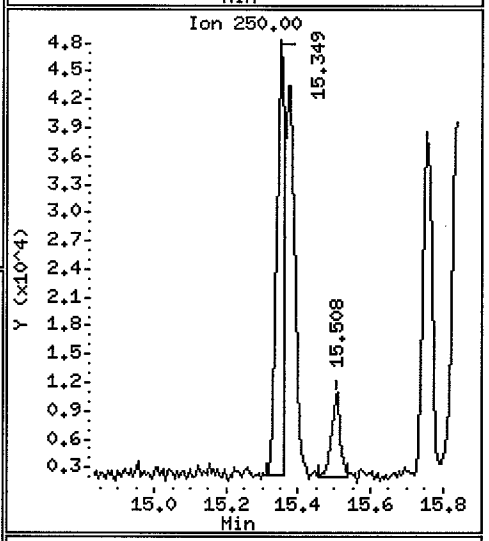


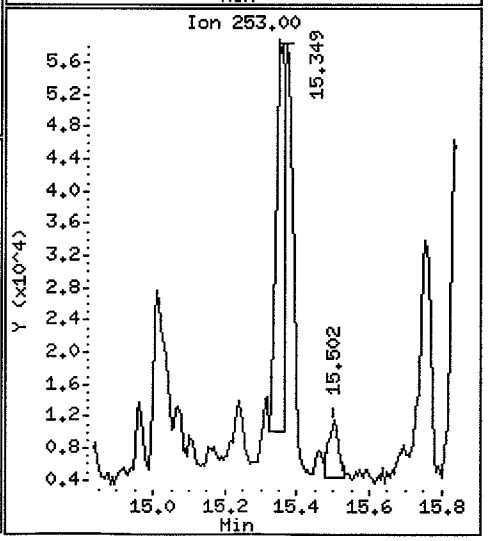












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

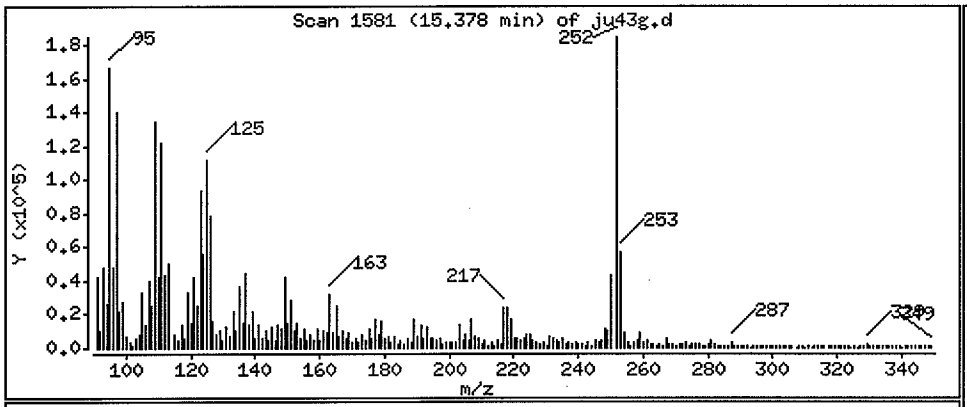
Operator: VTS

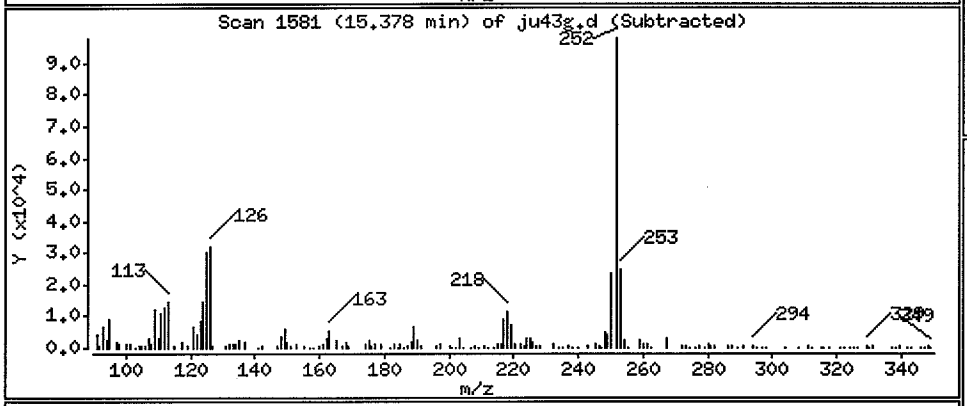
Column phase: ZB-5

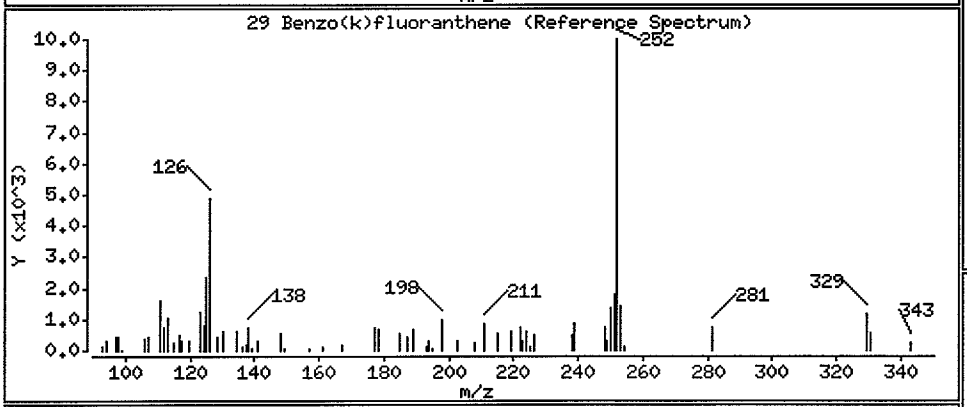
Column diameter: 0.25

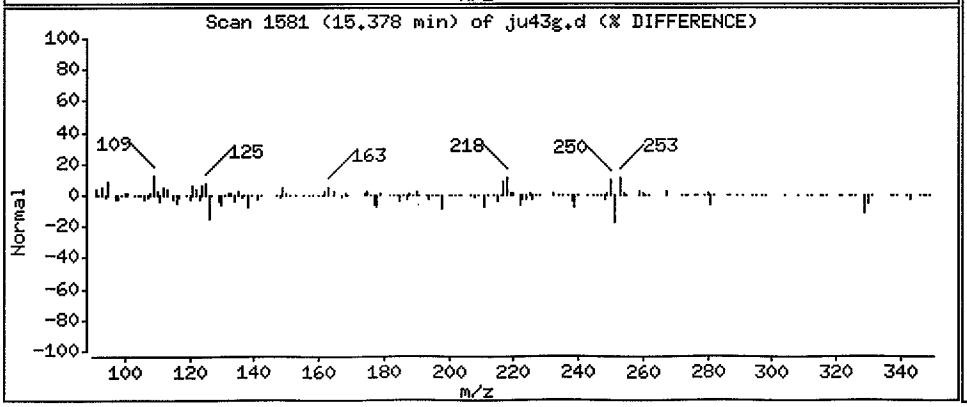
29 Benzo(k)fluoranthene

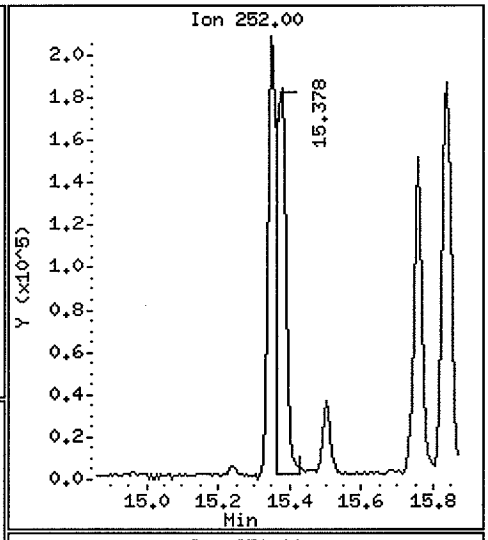
Concentration: 148.4 ug/kg

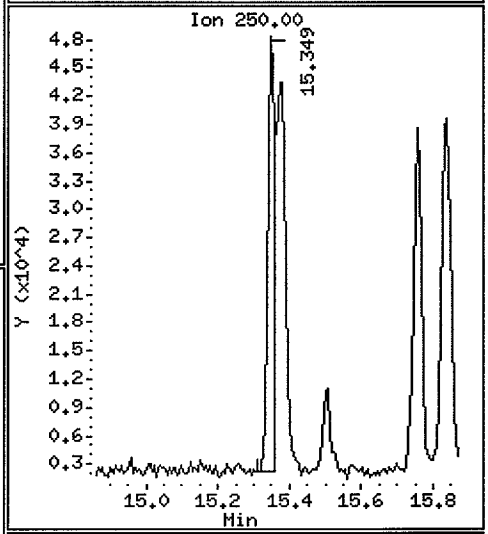


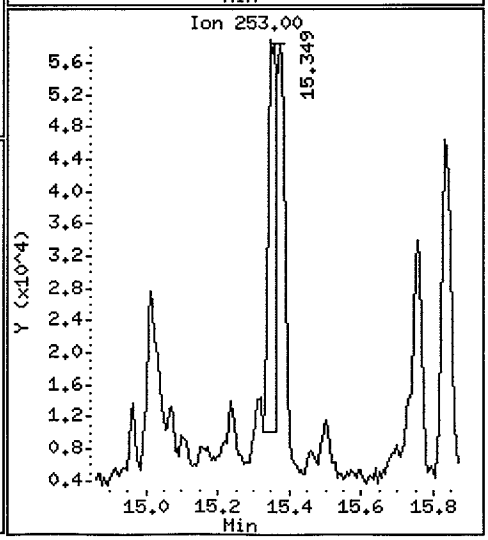












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

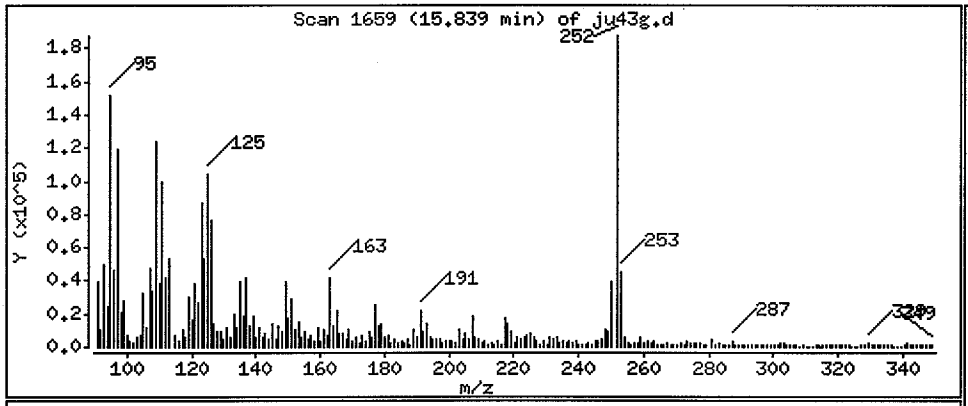
Operator: VTS

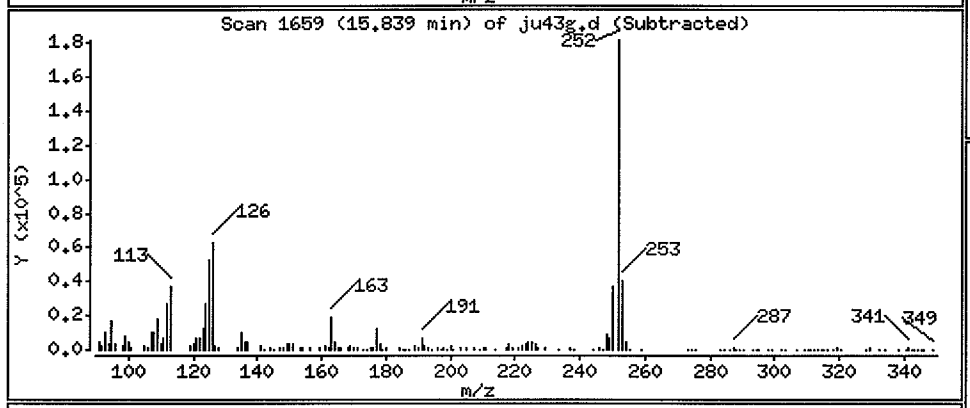
Column phase: ZB-5

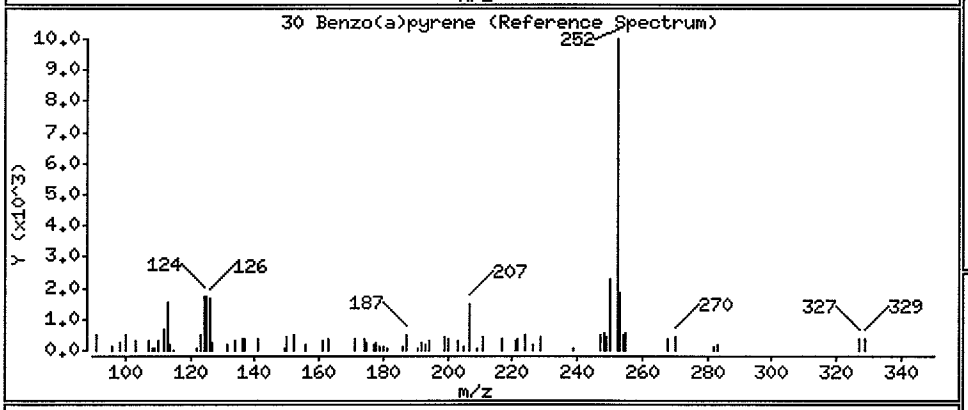
Column diameter: 0.25

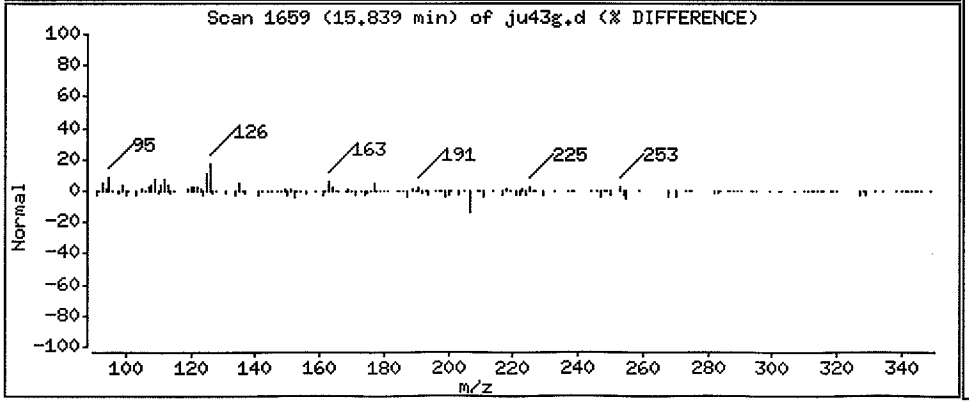
30 Benzo(a)pyrene

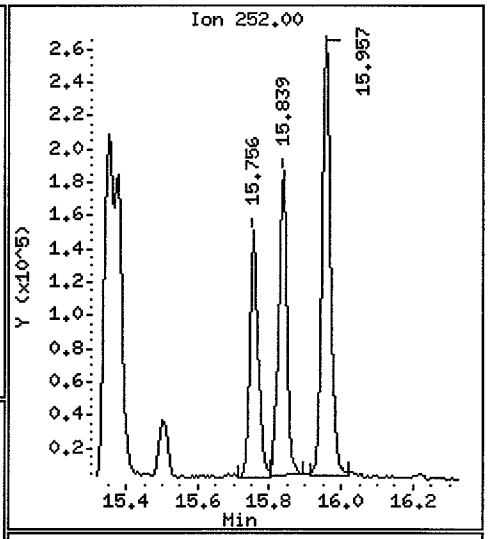
Concentration: 174.6 ug/kg

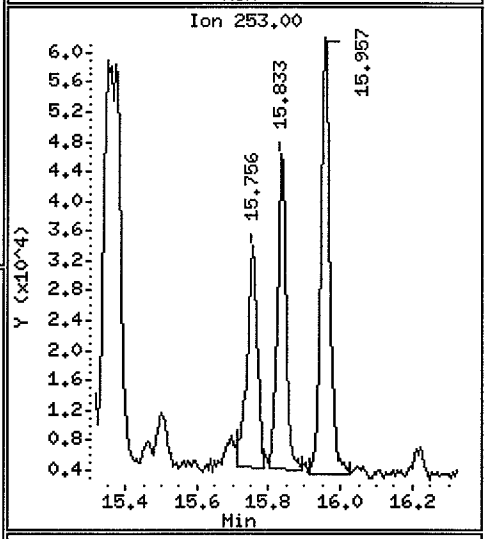


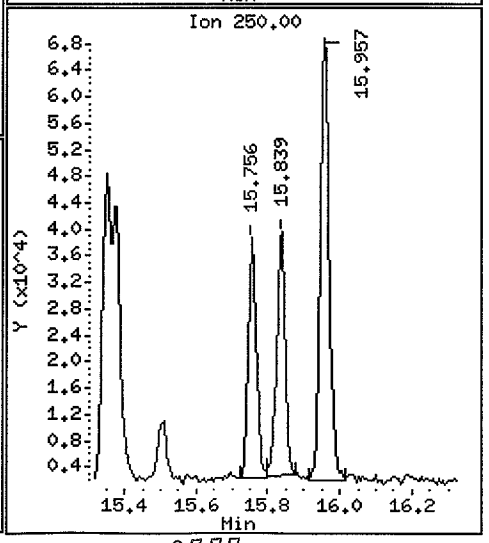












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

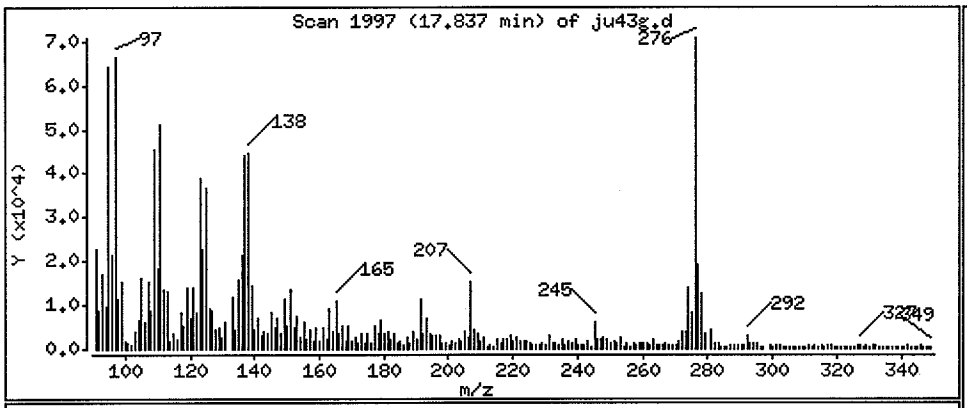
Operator: VTS

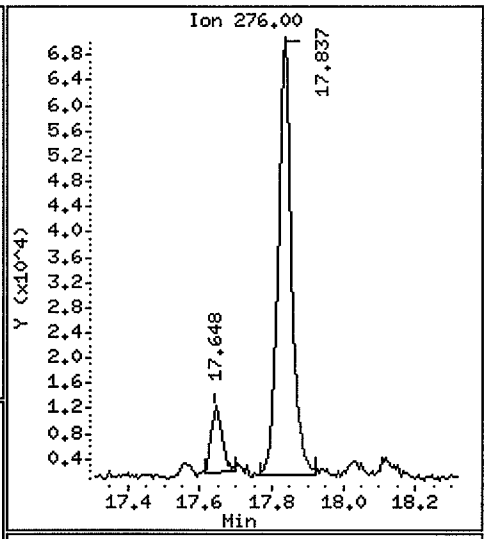
Column phase: ZB-5

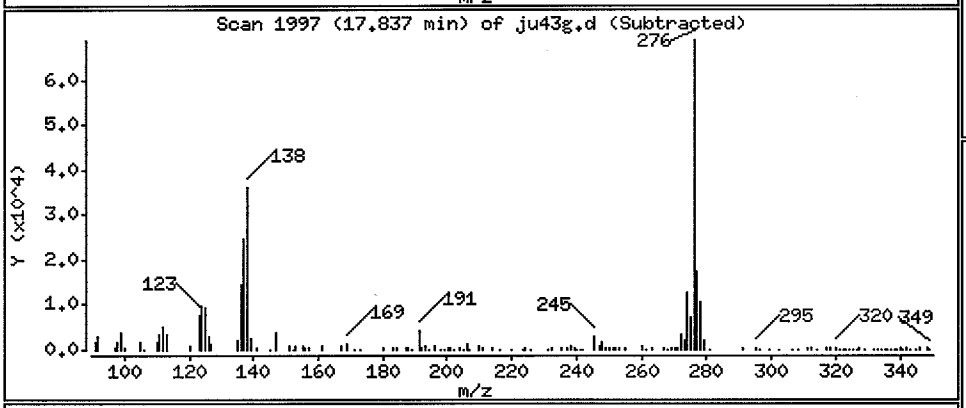
Column diameter: 0.25

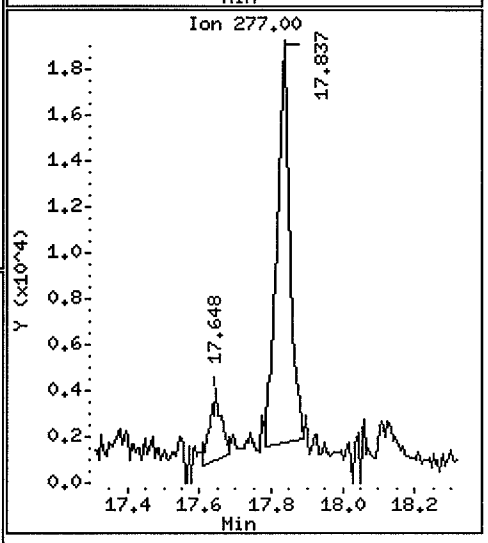
33 Indeno(1,2,3-cd)pyrene

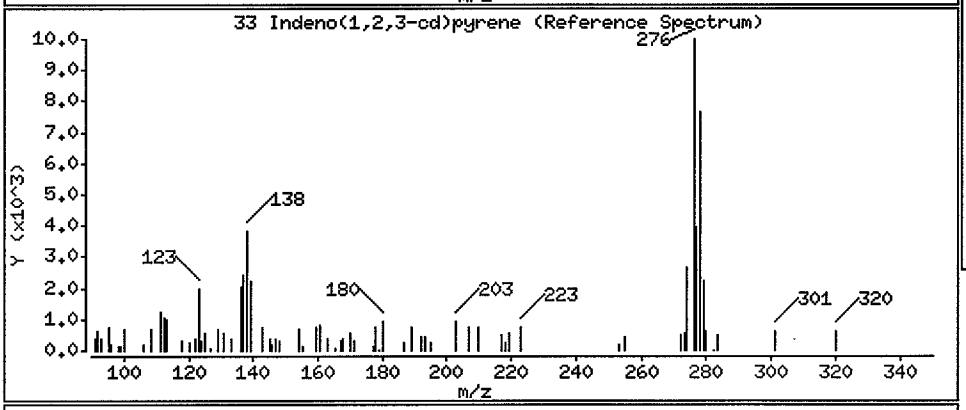
Concentration: 96.85 ug/kg

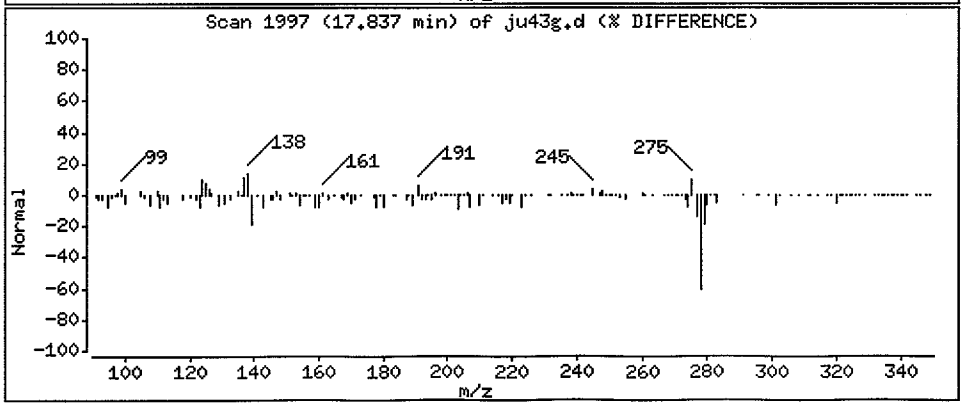












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

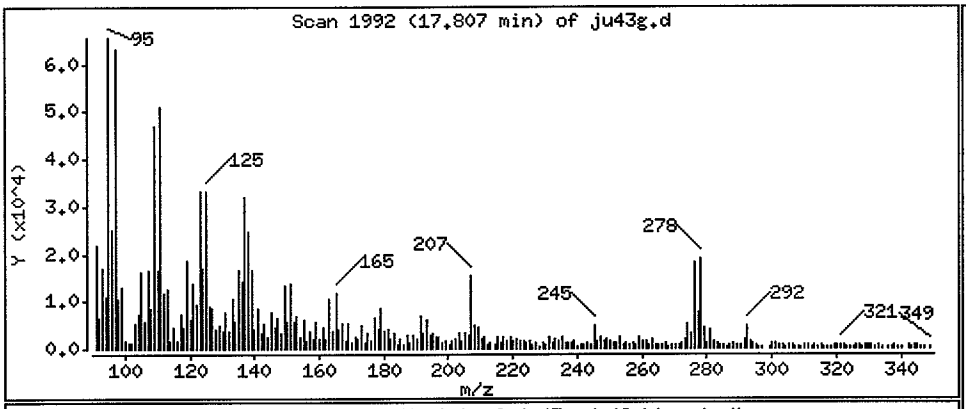
Operator: VTS

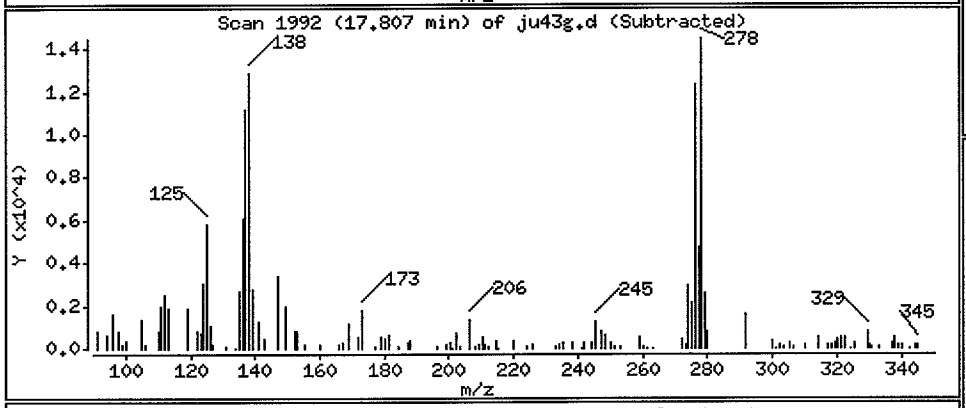
Column phase: ZB-5

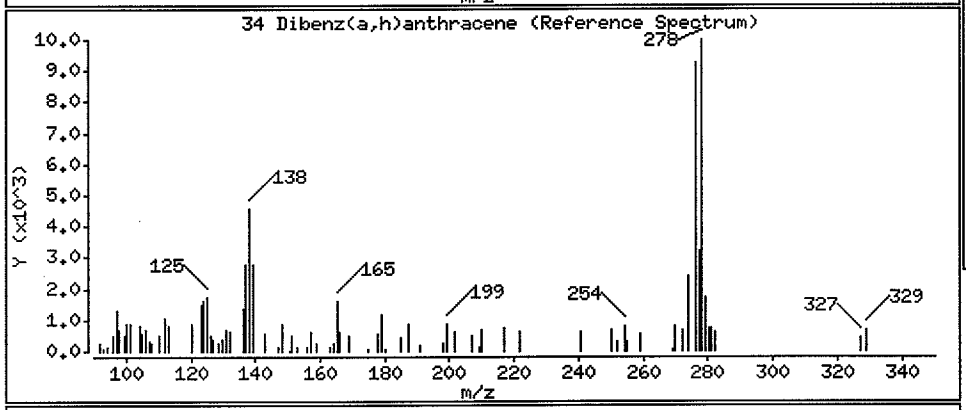
Column diameter: 0.25

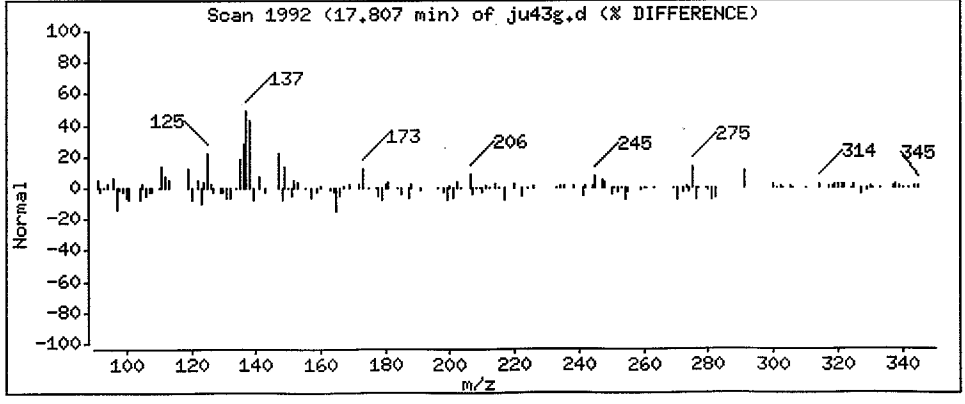
34 Dibenz(a,h)anthracene

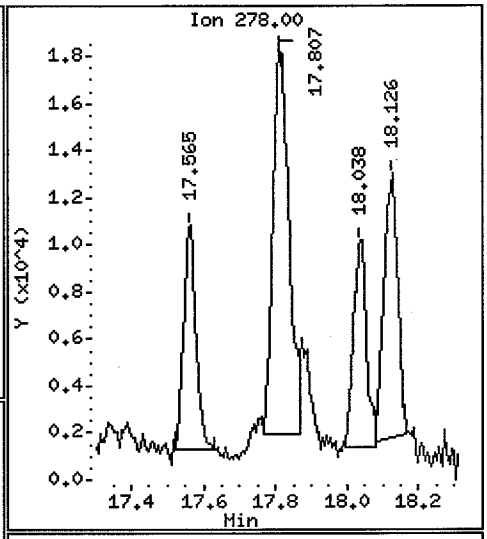
Concentration: 33.26 ug/kg

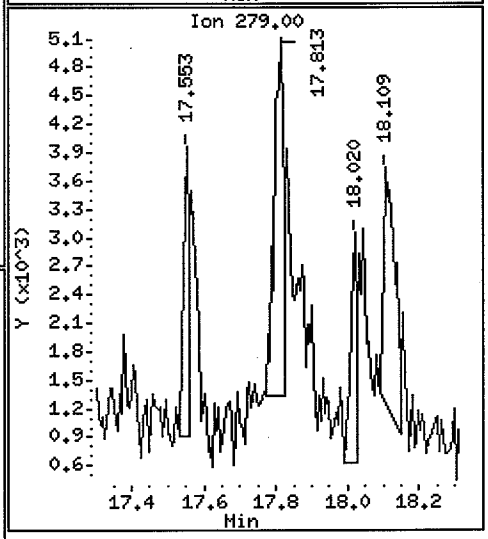












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

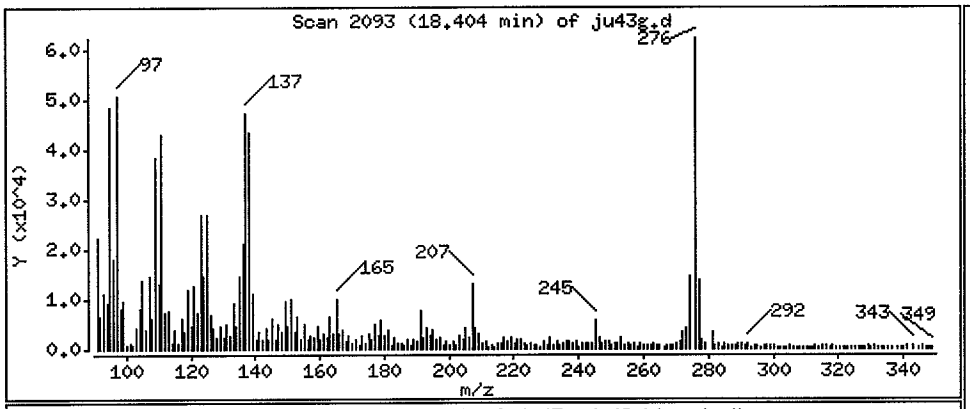
Operator: VTS

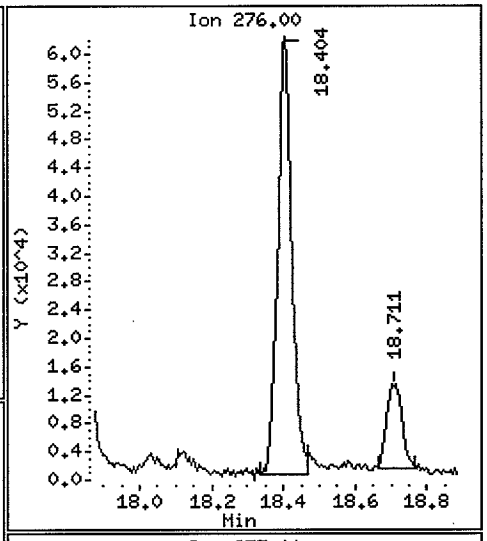
Column phase: ZB-5

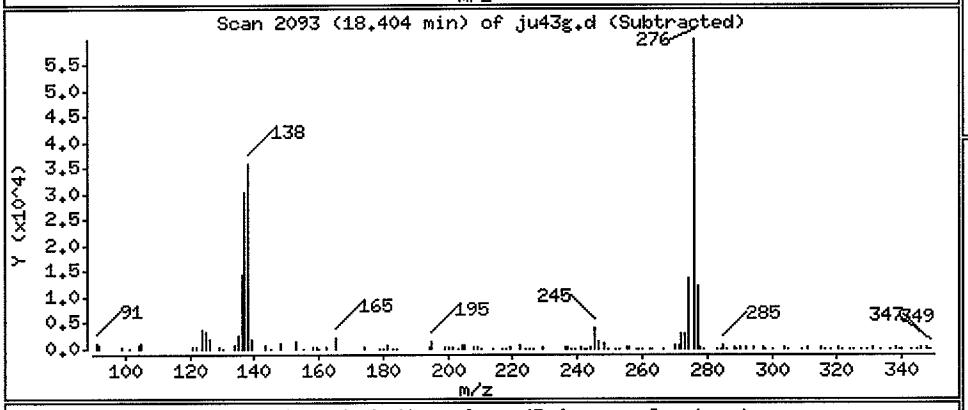
Column diameter: 0.25

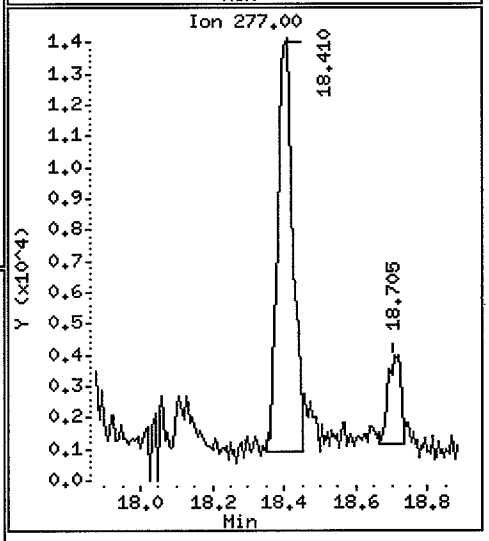
35 Benzo(g,h,i)perylene

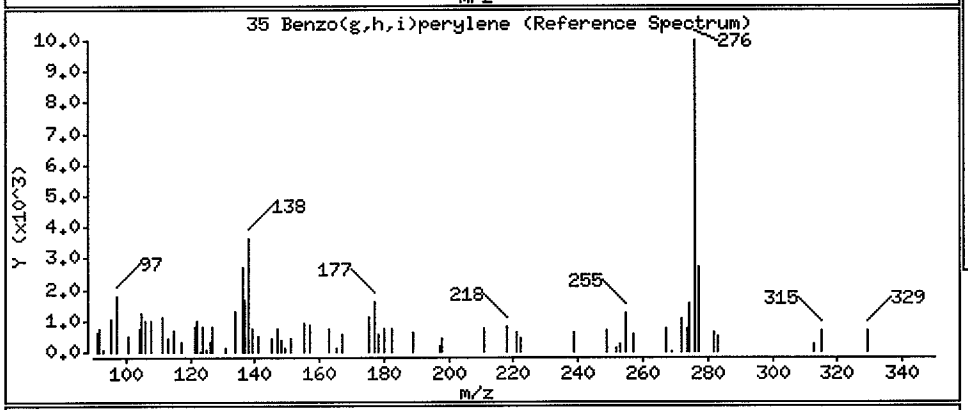
Concentration: 102.3 ug/kg

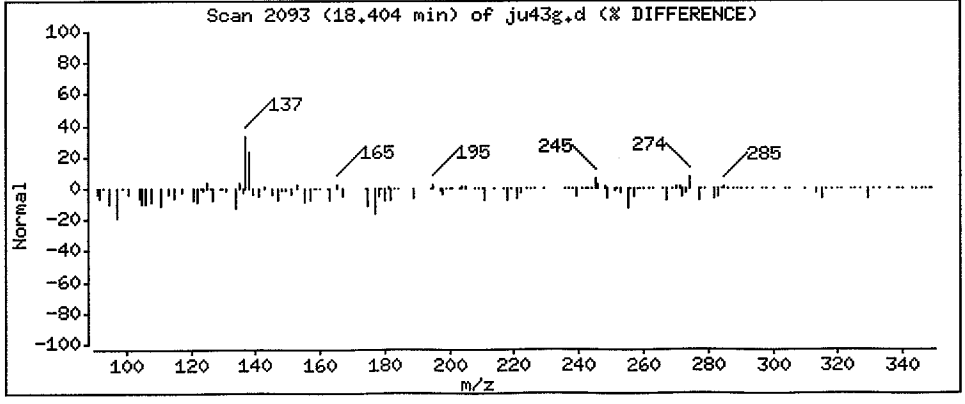












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

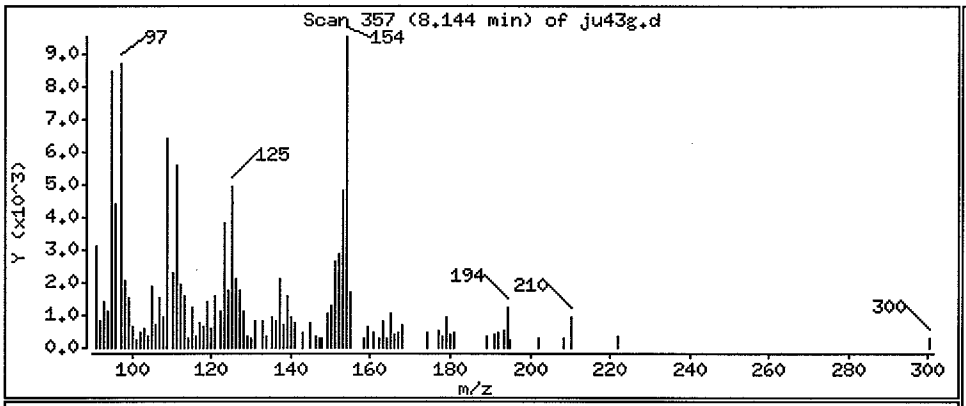
Operator: VTS

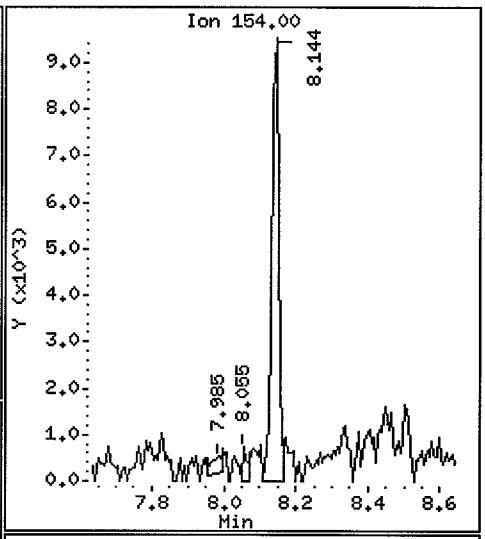
Column phase: ZB-5

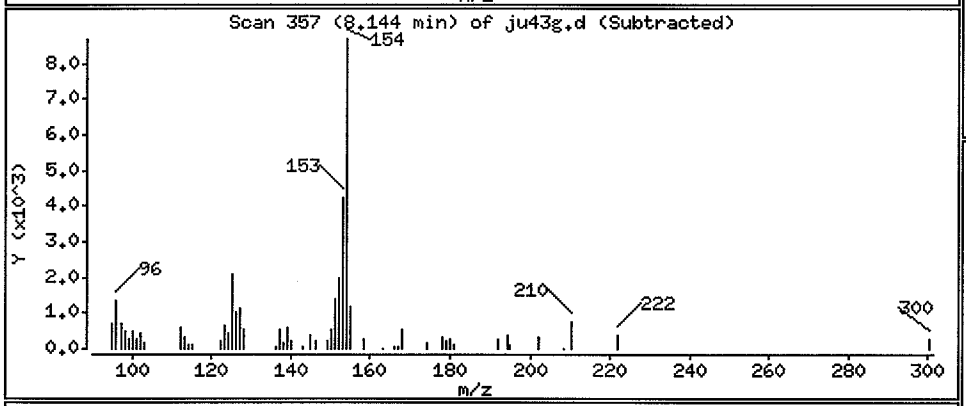
Column diameter: 0.25

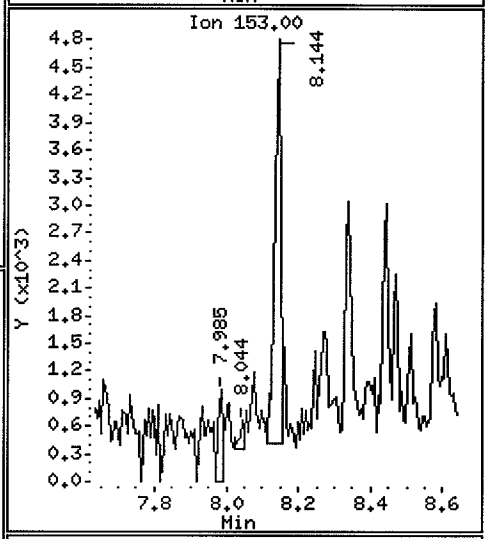
48 Biphenyl

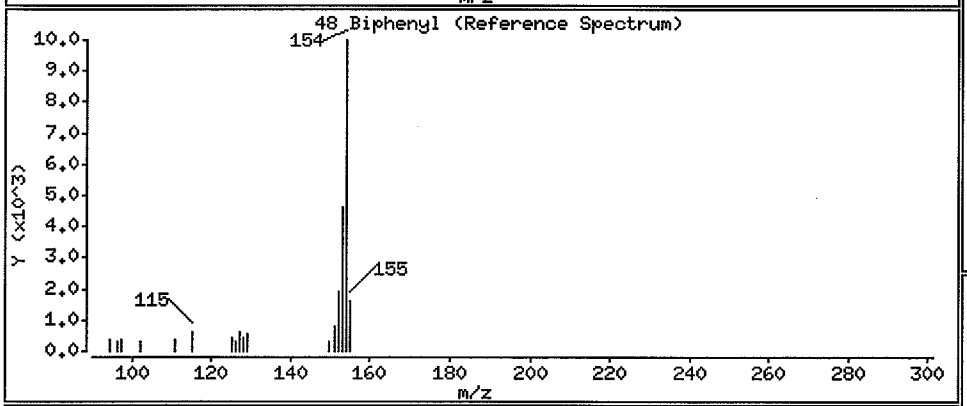
Concentration: 5.278 ug/kg

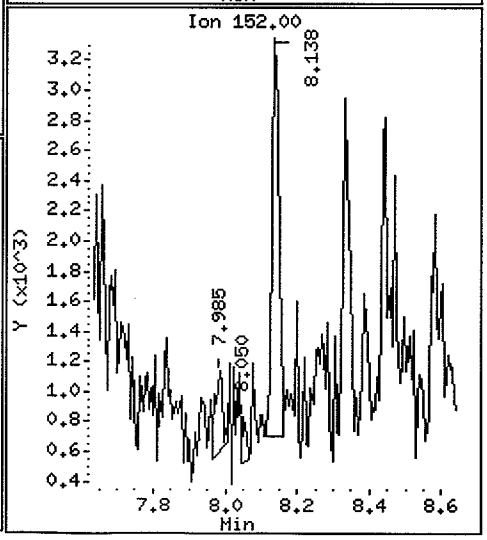


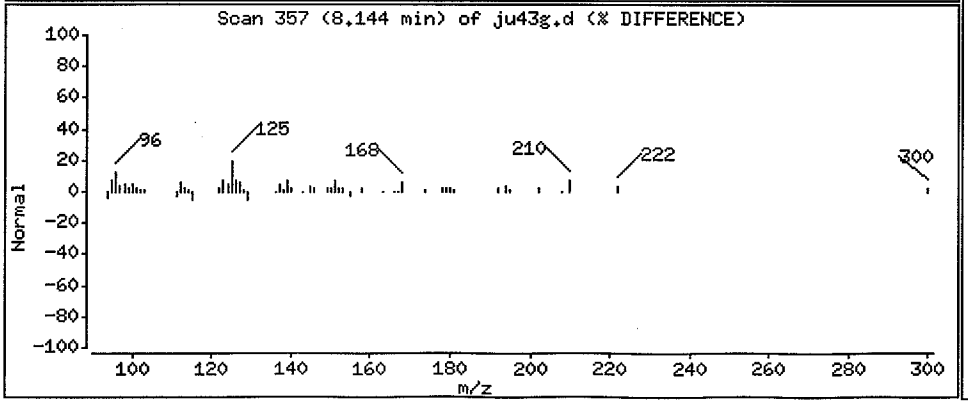












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

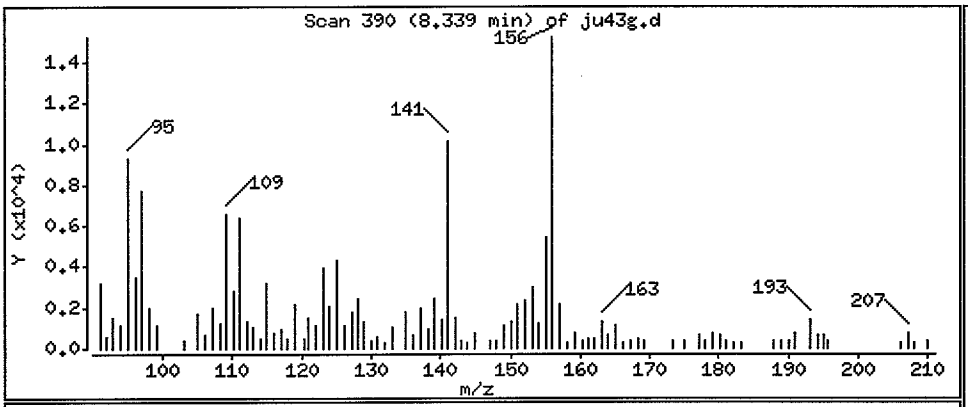
Operator: VTS

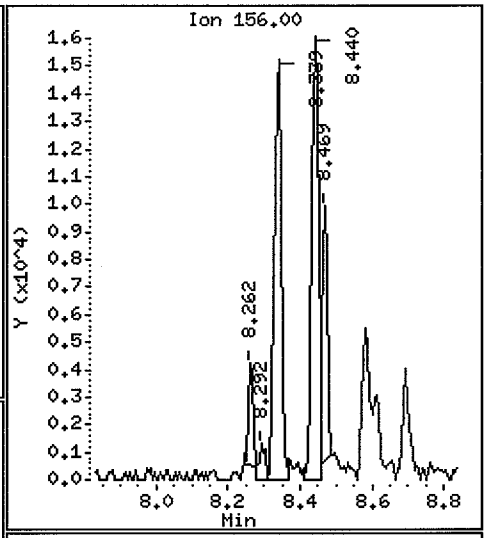
Column phase: ZB-5

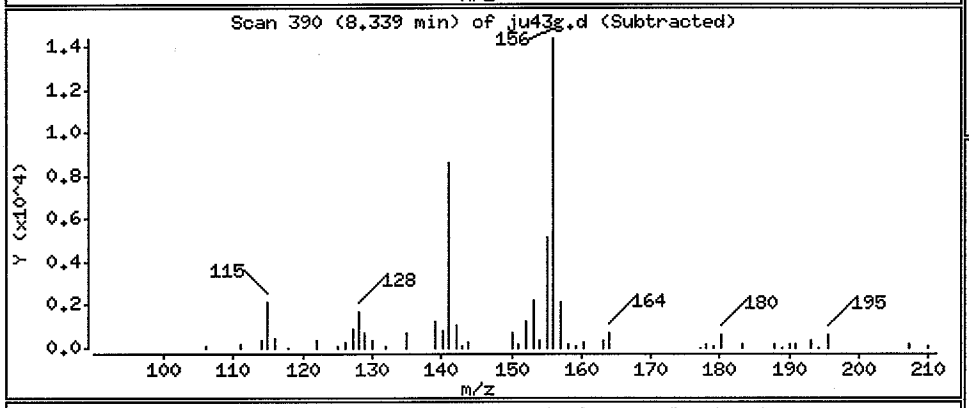
Column diameter: 0.25

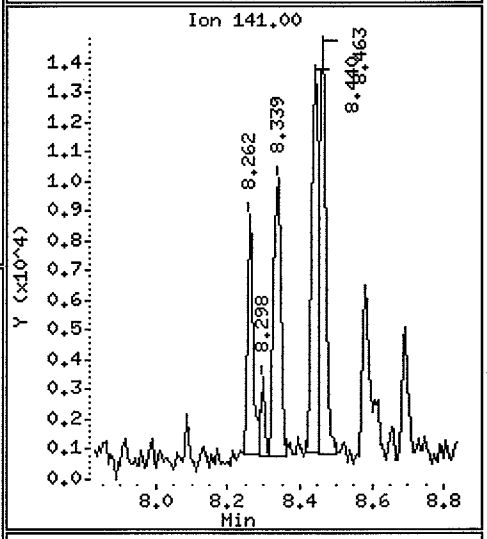
49 2,6-Dimethylnaphthalene

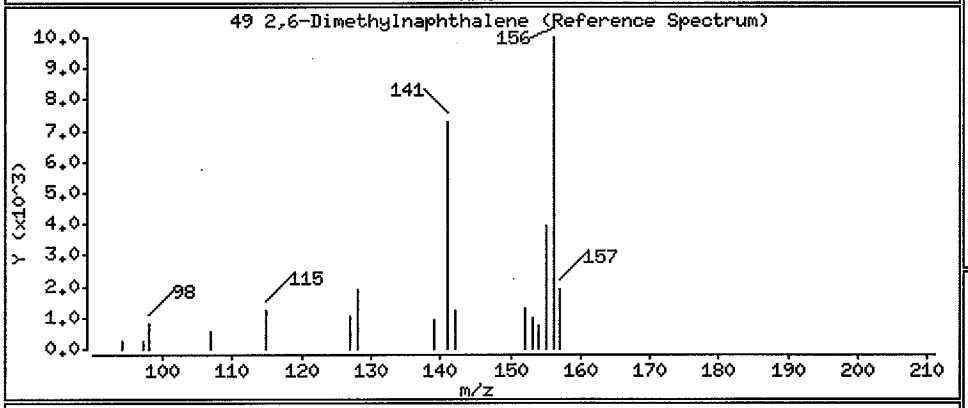
Concentration: 11.90 ug/kg

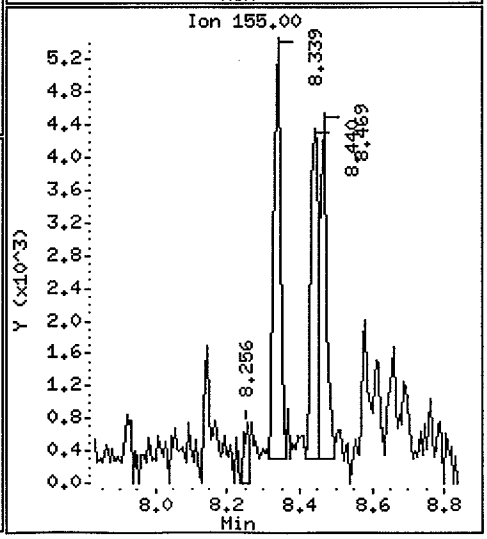


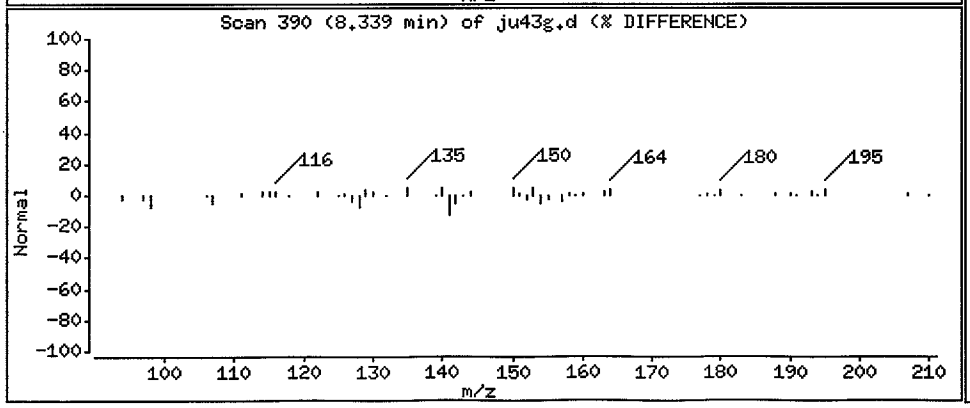












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

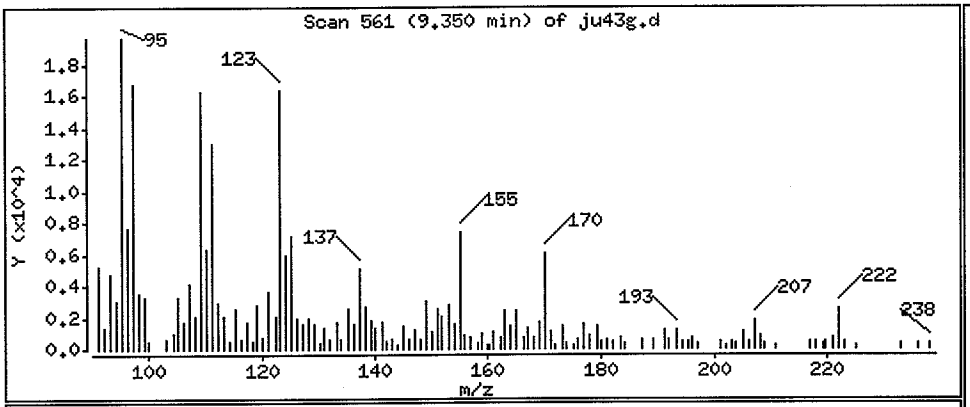
Operator: VTS

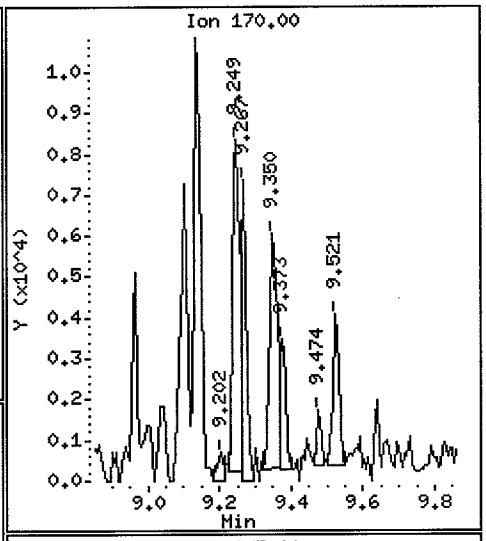
Column phase: ZB-5

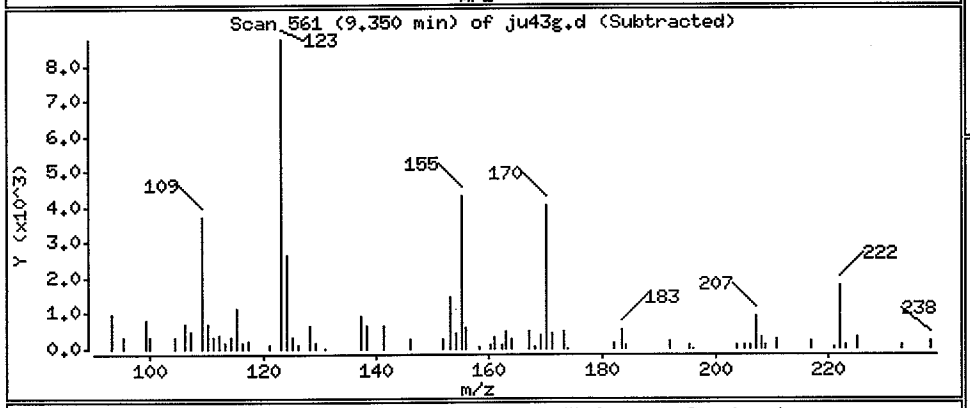
Column diameter: 0.25

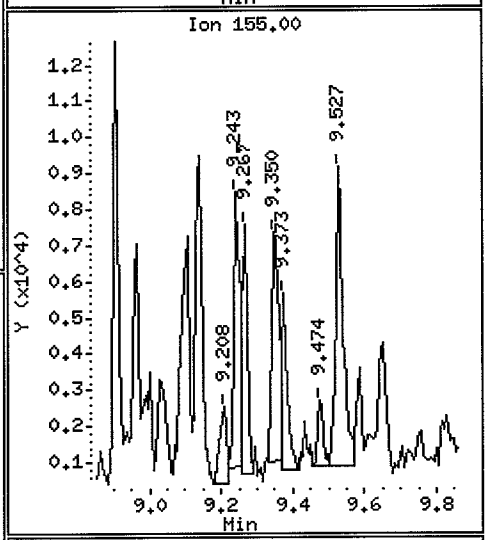
50 2,3,5-Trimethylnaphthalene

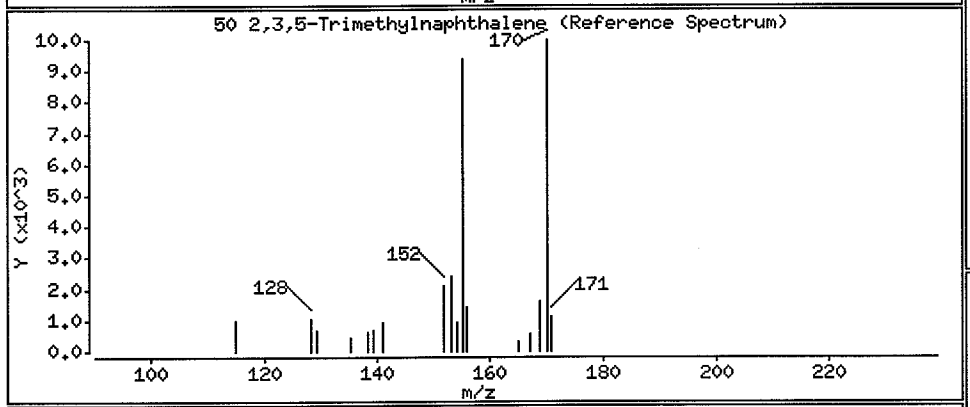
Concentration: 6.588 ug/kg

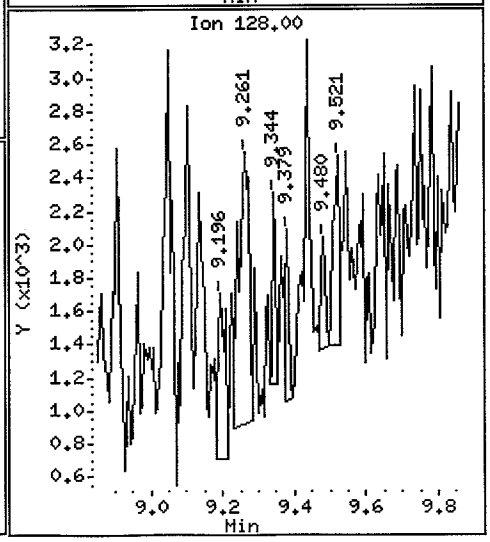


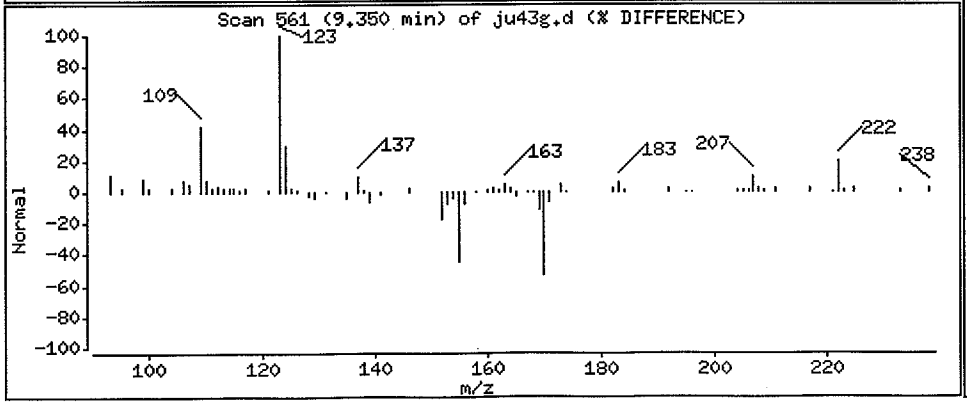












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

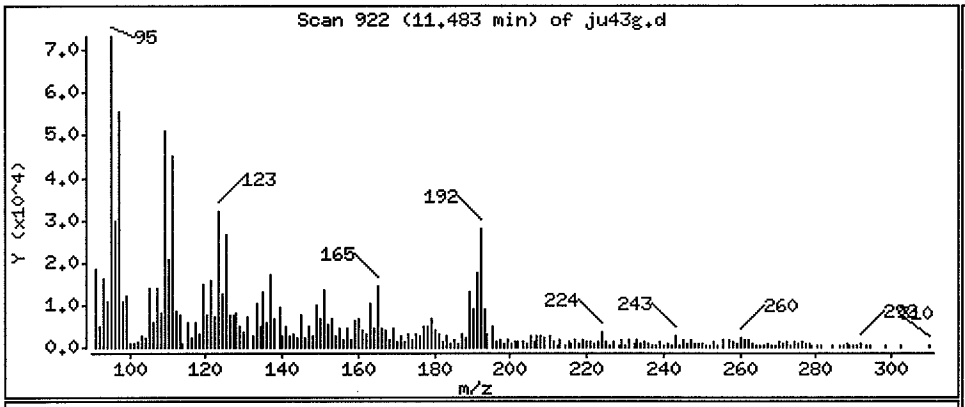
Operator: VTS

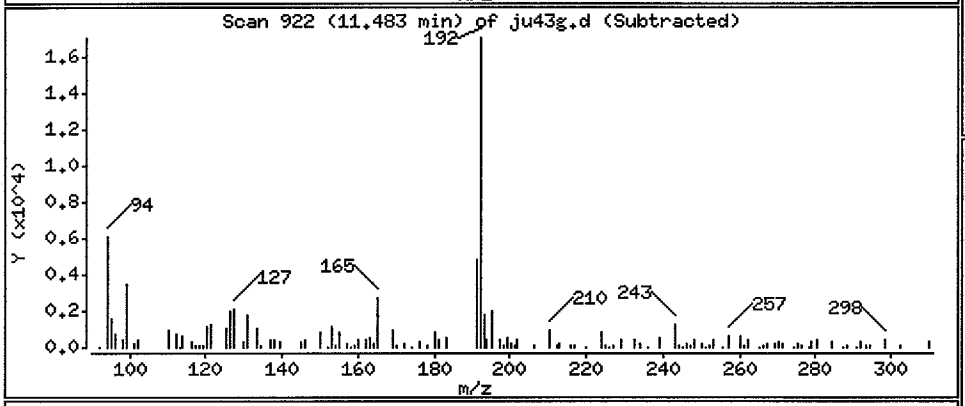
Column phase: ZB-5

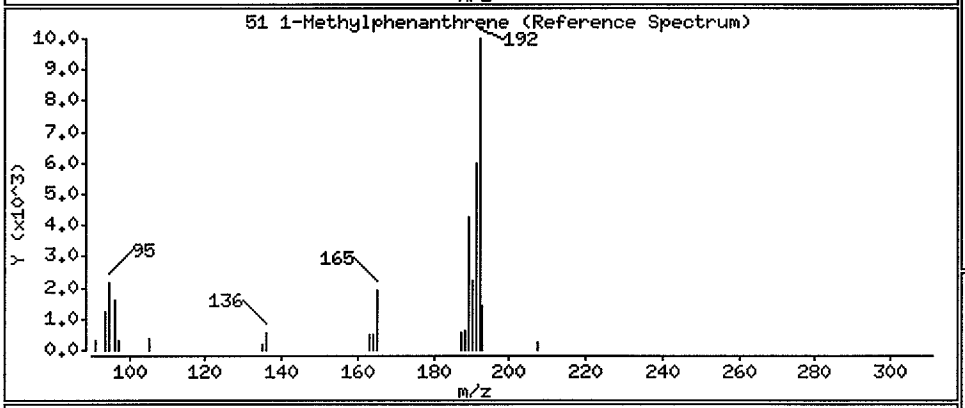
Column diameter: 0.25

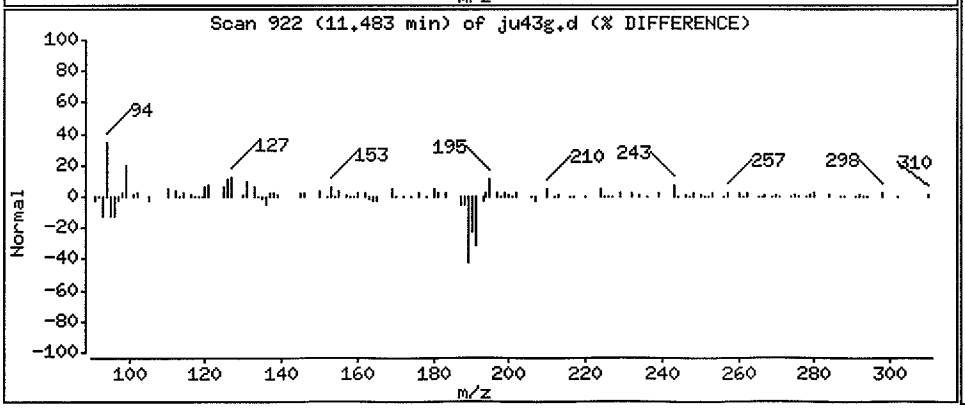
51 1-Methylphenanthrene

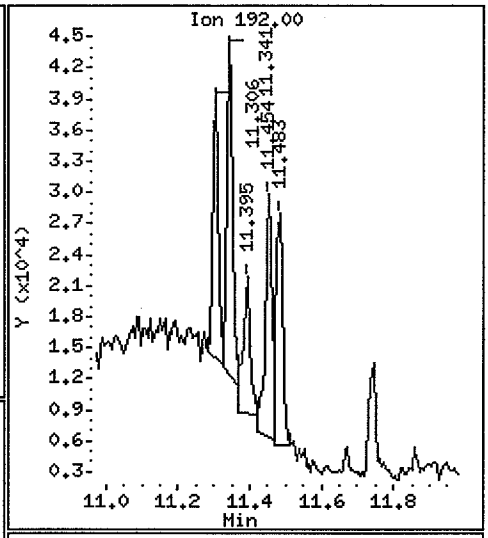
Concentration: 17.21 ug/kg

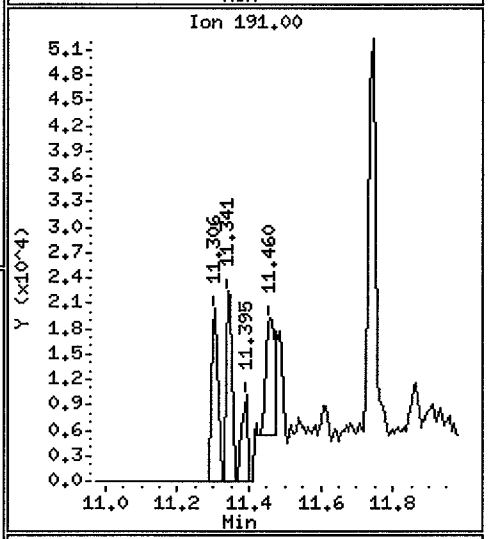


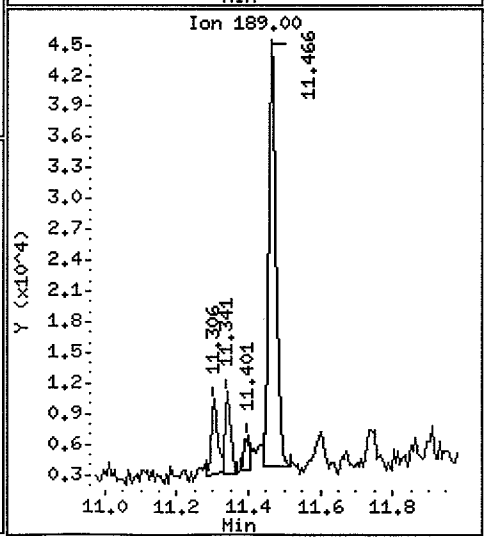












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

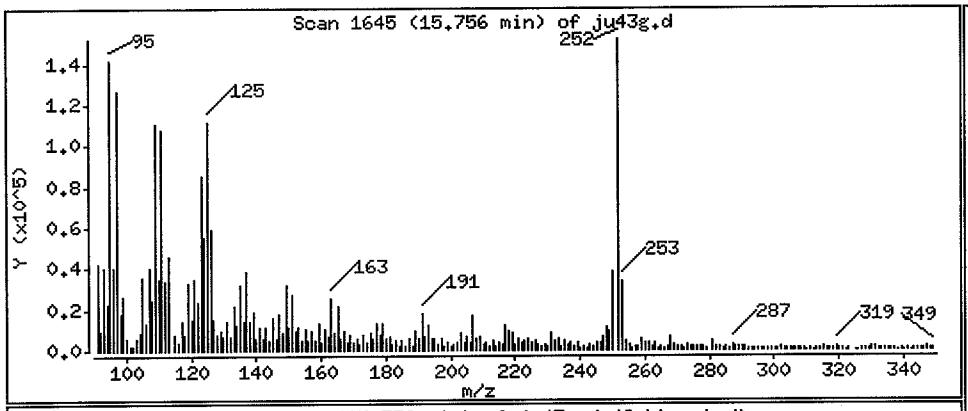
Operator: VTS

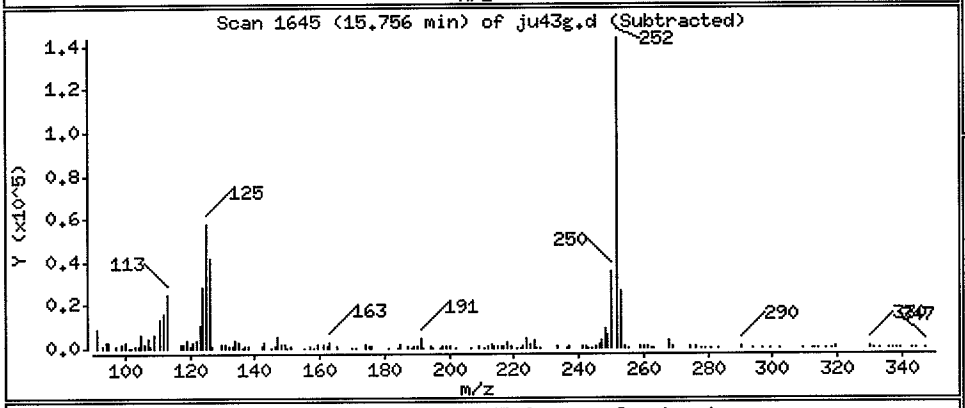
Column phase: ZB-5

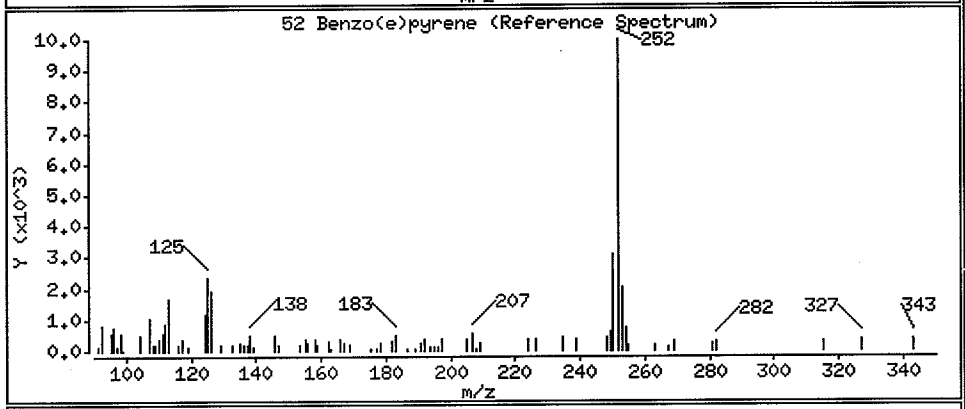
Column diameter: 0.25

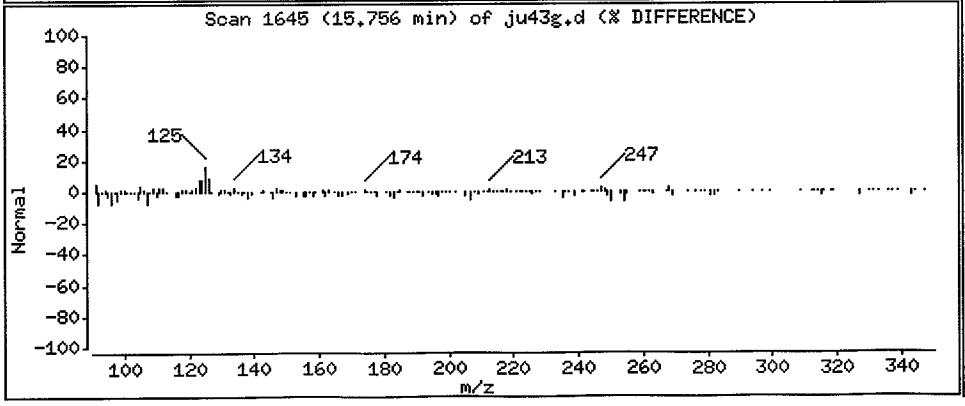
52 Benzo(e)pyrene

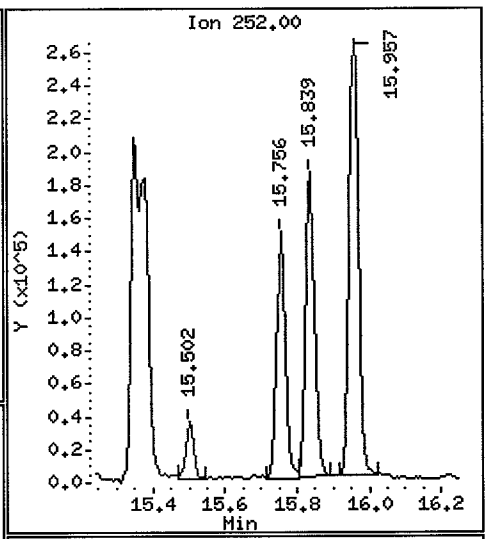
Concentration: 124.1 ug/kg

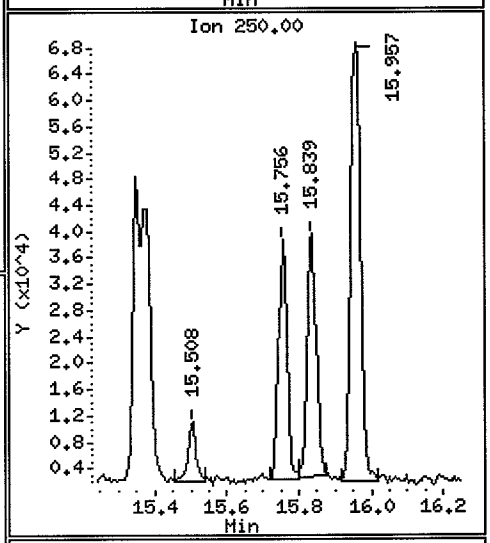


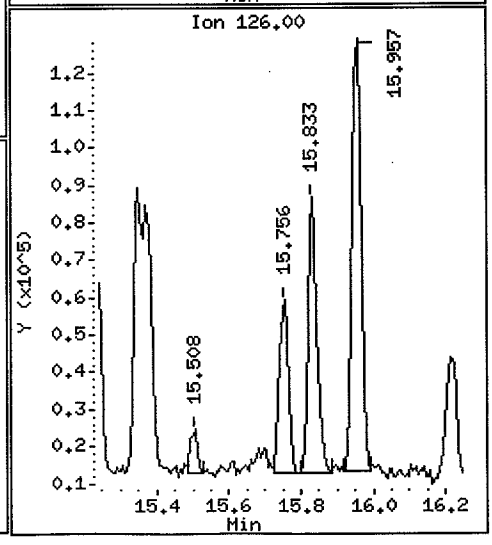












Data File: /chem3/nt1.i/20060912.b/ju43g.d

Date : 12-SEP-2006 15:56

Client ID: T4-B414-04-D

Instrument: nt1.i

Sample Info: JU43G

Volume Injected (uL): 1.0

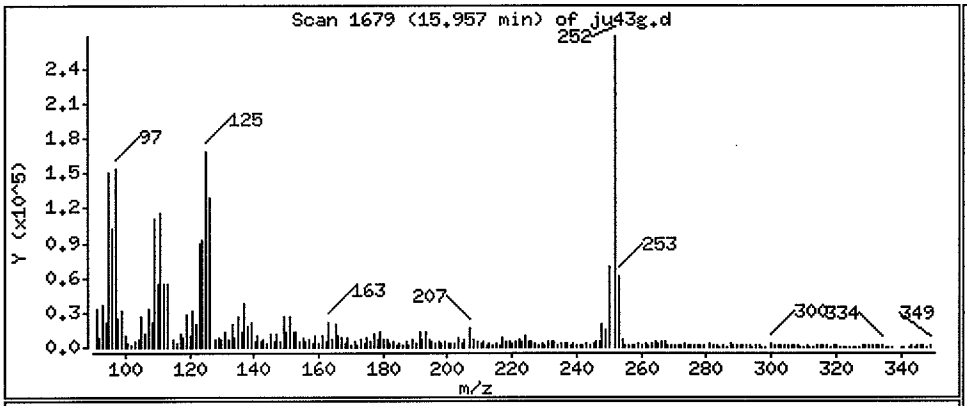
Operator: VTS

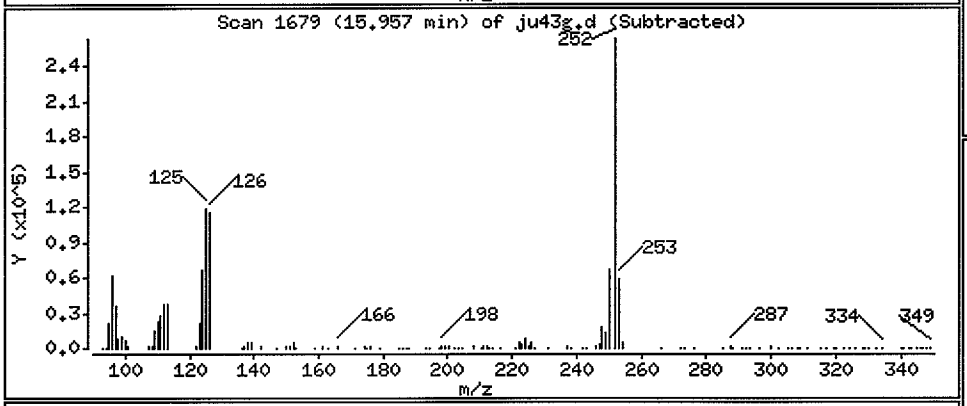
Column phase: ZB-5

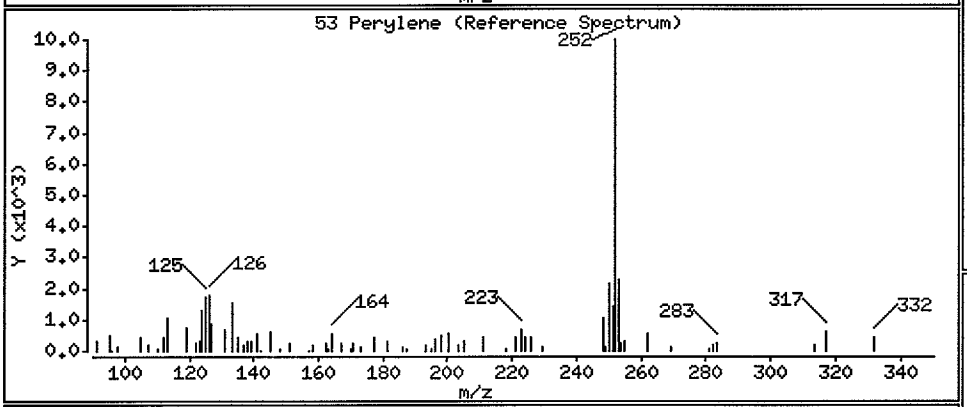
Column diameter: 0.25

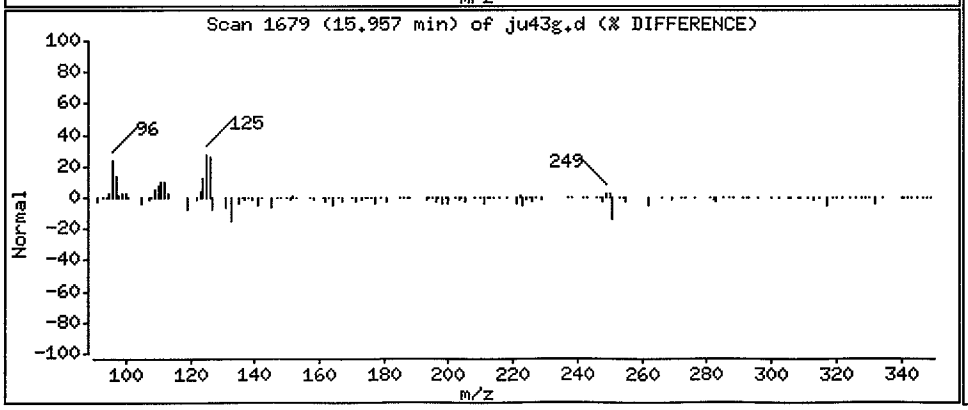
53 Perylene

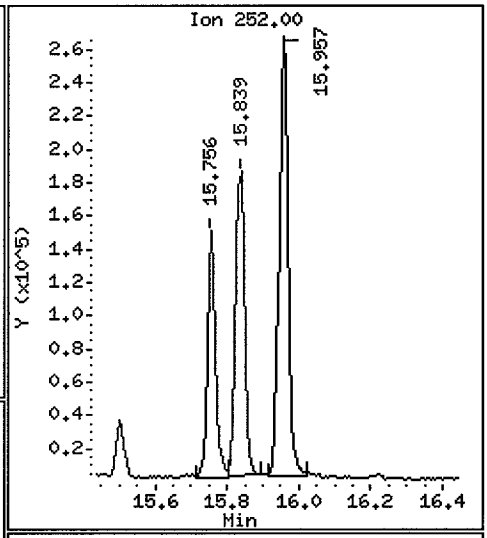
Concentration: 250.9 ug/kg

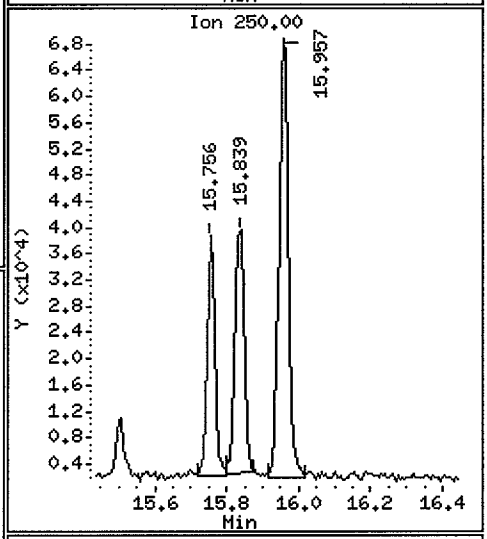


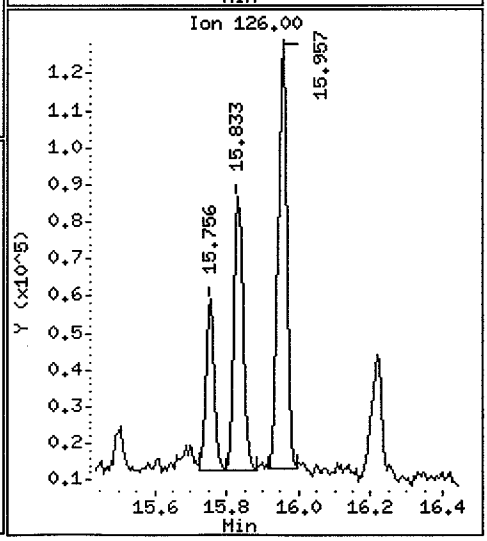












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-04-E**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43H
LIMS ID: 06-15852
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 16:21
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.5%
pH: 6.7

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	5.0	84	
91-57-6	2-Methylnaphthalene	5.0	33	
90-12-0	1-Methylnaphthalene	5.0	15	
208-96-8	Acenaphthylene	5.0	20	
83-32-9	Acenaphthene	5.0	160	
86-73-7	Fluorene	5.0	81	
85-01-8	Phenanthrene	5.0	650	E
120-12-7	Anthracene	5.0	170	
206-44-0	Fluoranthene	5.0	1,300	E
129-00-0	Pyrene	5.0	1,200	E
56-55-3	Benzo(a)anthracene	5.0	770	E
218-01-9	Chrysene	5.0	970	E
205-99-2	Benzo(b)fluoranthene	5.0	1,100	E
207-08-9	Benzo(k)fluoranthene	5.0	780	E
50-32-8	Benzo(a)pyrene	5.0	1,000	E
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	490	
53-70-3	Dibenz(a,h)anthracene	5.0	180	
191-24-2	Benzo(g,h,i)perylene	5.0	500	E
198-55-0	Perylene	5.0	600	E
92-52-4	Biphenyl	5.0	9.4	
581-42-0	2,6-Dimethylnaphthalene	5.0	21	
832-69-9	1-Methylphenanthrene	5.0	59	
192-97-2	Benzo(e)pyrene	5.0	670	E
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	13	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	92.0%
d14-Dibenzo(a,h)anthracen	78.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43h.d
Lab Smp Id: JU43H Client Smp ID: T4-B414-04-E
Inj Date : 12-SEP-2006 16:21
Operator : VTS Inst ID: nt1.i
Smp Info : JU43H
Misc Info : 06-15852
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.50000	Weight of sample extracted (g)
M	45.50000	% 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	6.813	6.808	(1.000)	372304	2.00000		
	2 Naphthalene	128	6.831	6.832	(1.003)	303852	1.69874	84.24	
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	254742	2.75937	136.8	
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	62402	0.65641	32.55	
	5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	32113	0.31129	15.44	
	7 Acenaphthylene	152	8.693	8.687	(0.980)	58138	0.39946	19.81	
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	177154	2.00000		
	9 Acenaphthene	153	8.911	8.906	(1.005)	285417	3.24694	161.0	
	10 Dibenzofuran	168	9.100	9.095	(1.026)	96148	~~0.76963~~	38.17	NR
	11 Fluorene	166	9.520	9.521	(1.073)	155963	1.63532	81.10	
*	15 Phenanthrene-d10	188	10.684	10.679	(1.000)	218931	2.00000		
	16 Phenanthrene	178	10.714	10.709	(1.003)	1556797	13.1181	650.5	E
	17 Anthracene	178	10.767	10.762	(1.008)	403199	3.36867	167.1	
	19 Fluoranthene	202	12.215	12.198	(1.143)	2576991	25.4395	1262	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.505	12.488	(0.892)	2590532	25.1983	1250	E
	22 Benzo(a)anthracene	228	13.988	13.965	(0.998)	1364379	15.5795	772.6	E
*	23 Chrysene-d12	240	14.012	13.989	(1.000)	146072	2.00000		
	24 Chrysene	228	14.041	14.018	(1.002)	1617559	19.6557	974.7	E
	28 Benzo(b)fluoranthene	252	15.383	15.336	(0.965)	1830706	22.4955	1116	E
	29 Benzo(k)fluoranthene	252	15.406	15.366	(0.966)	1346094	15.8376	785.4(M)	E
	30 Benzo(a)pyrene	252	15.867	15.821	(0.995)	1520769	20.7186	1027(H)	E
*	31 Perylene-d12	264	15.944	15.898	(1.000)	143711	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.877	17.813	(1.121)	774070	9.82340	487.2	
$	32 Dibenz(a,h)anthrancene-d14	292	17.788	17.736	(1.116)	111271	2.36275	117.2(H)	
	34 Dibenz(a,h)anthracene	278	17.859	17.807	(1.120)	226529	3.54698	175.9	
	35 Benzo(g,h,i)perylene	276	18.444	18.380	(1.157)	703591	10.1034	501.0	E
	48 Biphenyl	154	8.143	8.138	(0.918)	20819	0.18951	9.398	
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	34437	0.41498	20.58	
	50 2,3,5-Trimethylnaphthalene	170	9.349	9.355	(1.054)	17076	0.26049	12.92	
	51 1-Methylphenanthrene	192	11.488	11.477	(0.820)	83039	1.20441	59.73	
	52 Benzo(e)pyrene	252	15.785	15.744	(0.990)	1113264	13.6142	675.1	E
	53 Perylene	252	15.986	15.939	(1.003)	918116	12.0326	596.7	E

QC Flag Legend

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

VTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43h.d
Lab Smp Id: JU43H
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15852

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-04-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	372304	9.00
8 Acenaphthene-d10	169375	84688	338750	177154	4.59
15 Phenanthrene-d10	232185	116092	464370	218931	-5.71
23 Chrysene-d12	179856	89928	359712	146072	-18.78
31 Perylene-d12	175373	87686	350746	143711	-18.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	14.01	0.16
31 Perylene-d12	15.90	15.40	16.40	15.94	0.29

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

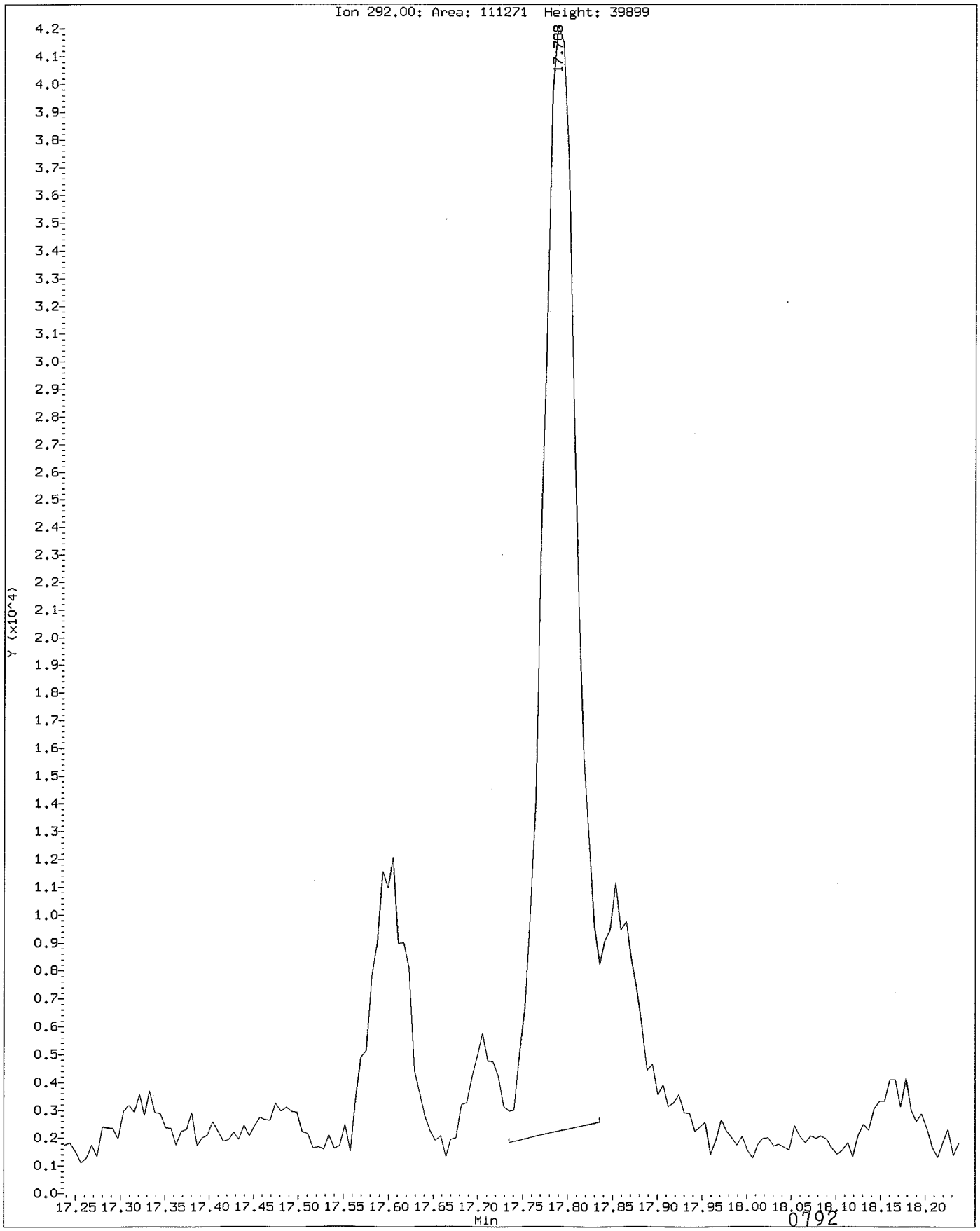
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43H
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15852

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-04-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.8	136.8	91.98	32-97
$ 32 Dibenz(a,h)anthran	148.8	117.2	78.76	21-105

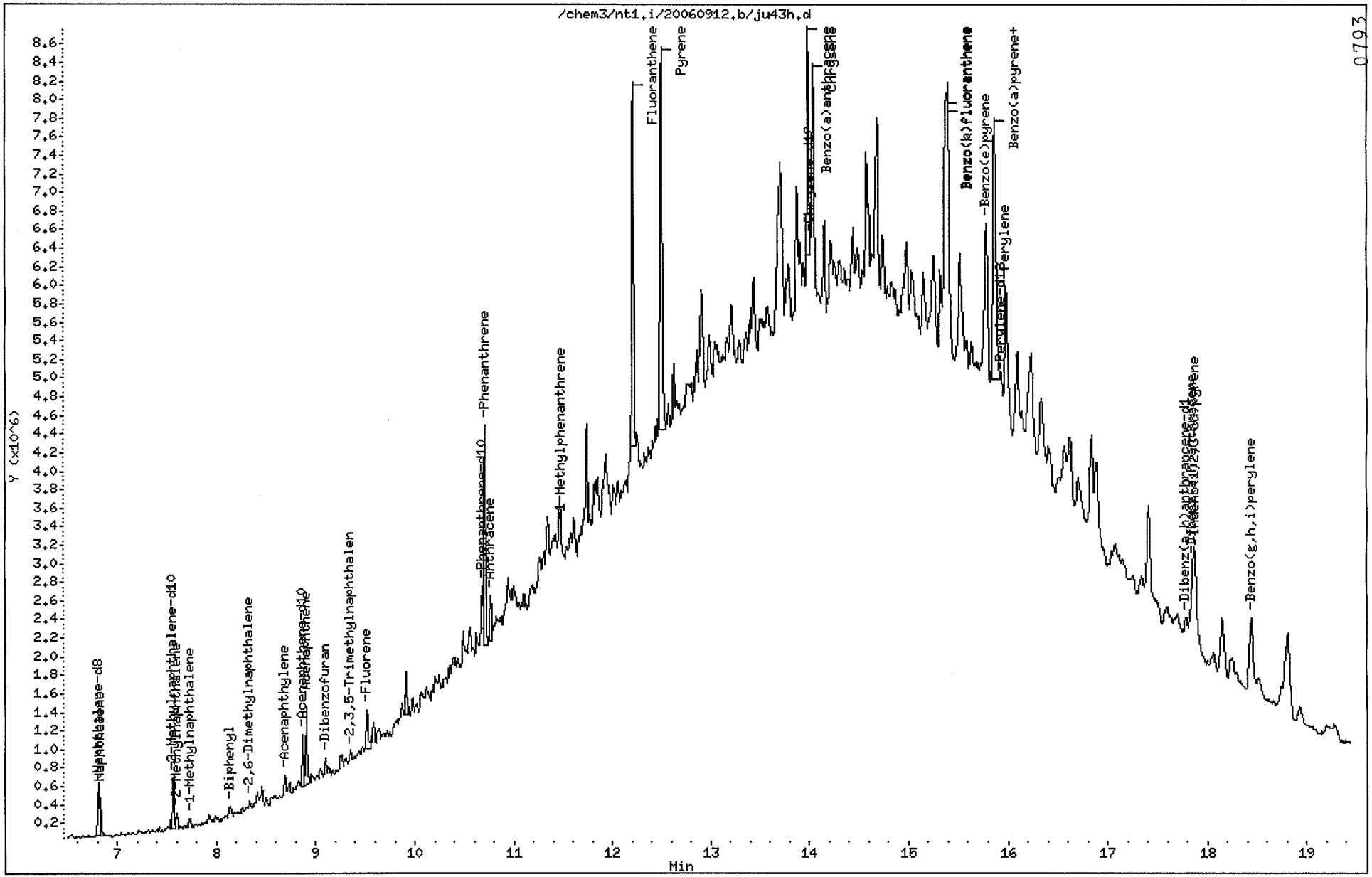
Data File: /chem3/nt1.i/20060912.b/ju43h.d
Injection Date: 12-SEP-2006 16:21
Instrument: nt1.i
Client Sample ID: T4-B414-04-E

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



Data File: /chem3/nt1.i/20060912.b/ju43h.d
Date : 12-SEP-2006 16:21
Client ID: T4-B414-04-E
Sample Info: JU43H
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

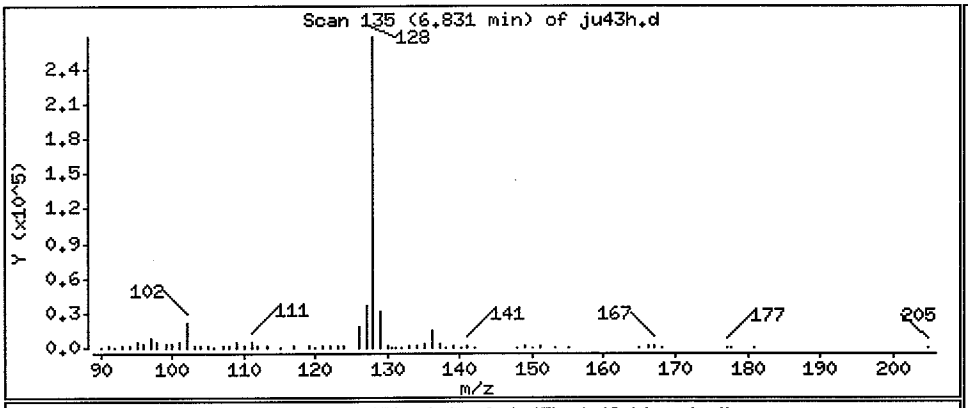
Operator: VTS

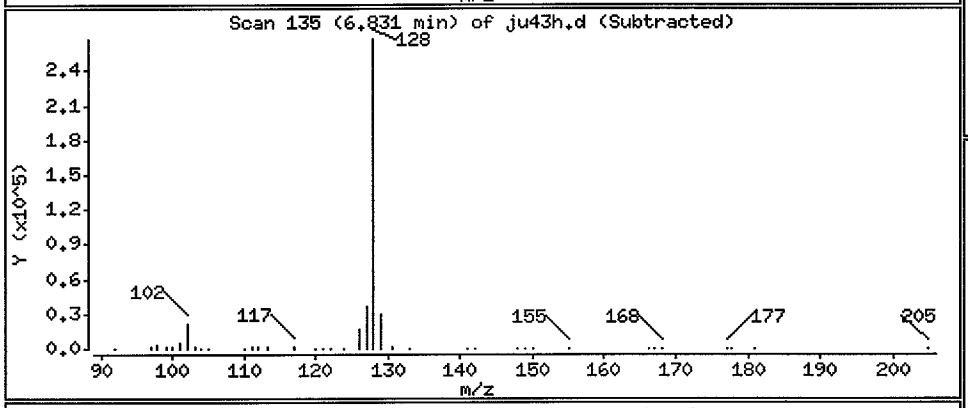
Column phase: ZB-5

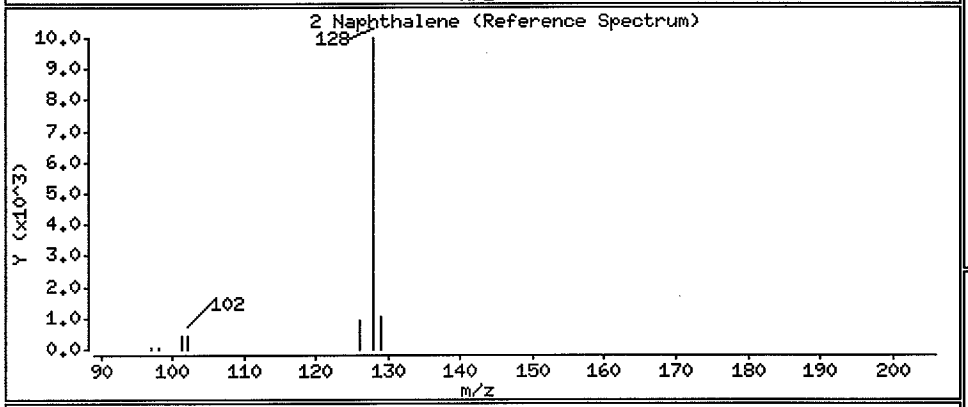
Column diameter: 0.25

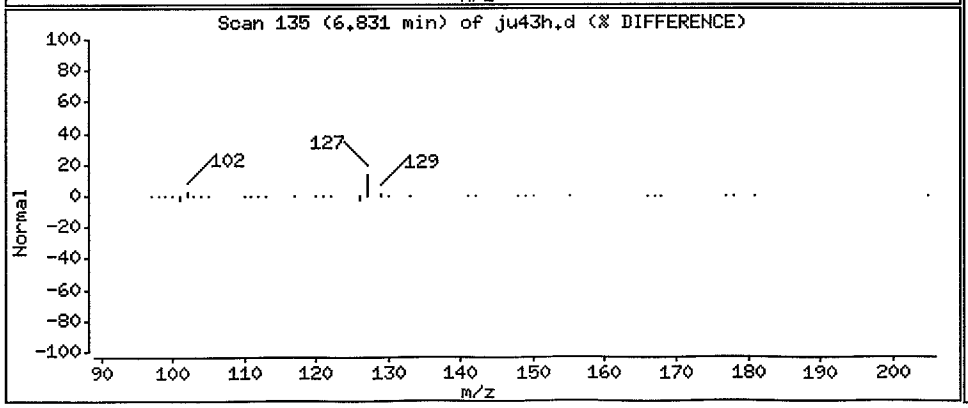
2 Naphthalene

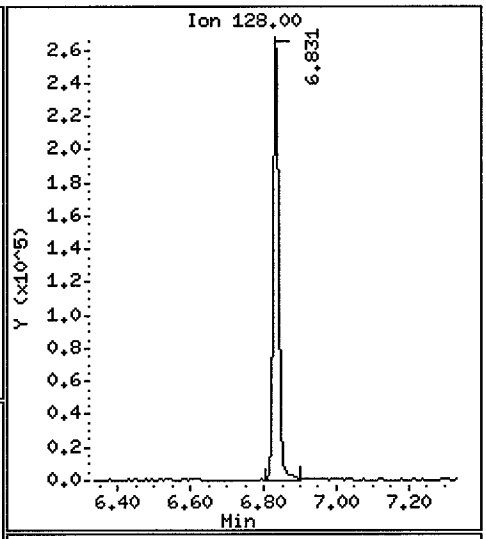
Concentration: 84.24 ug/kg

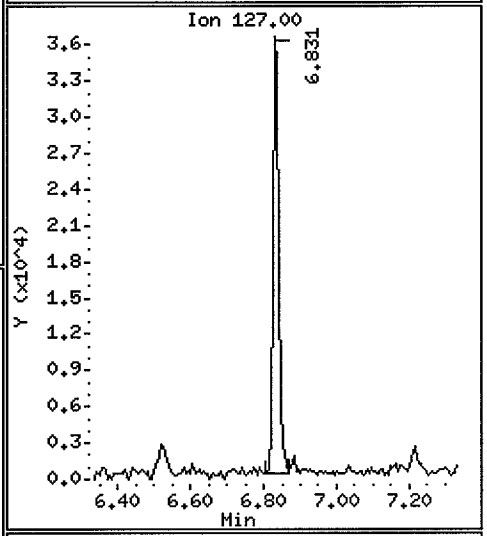


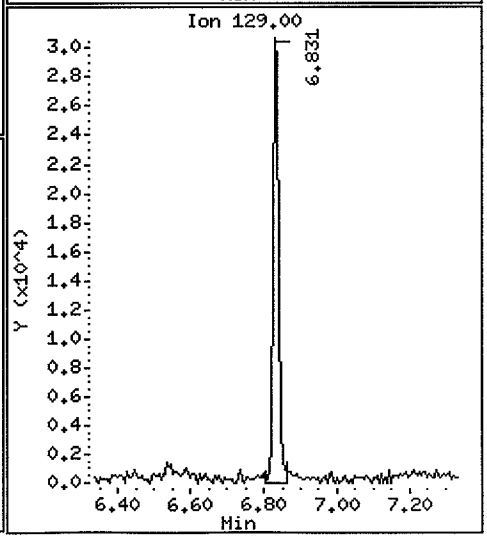












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

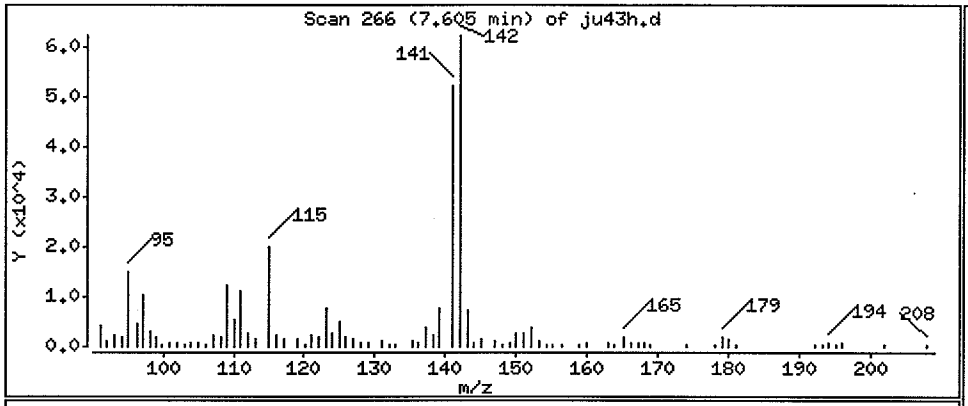
Operator: VTS

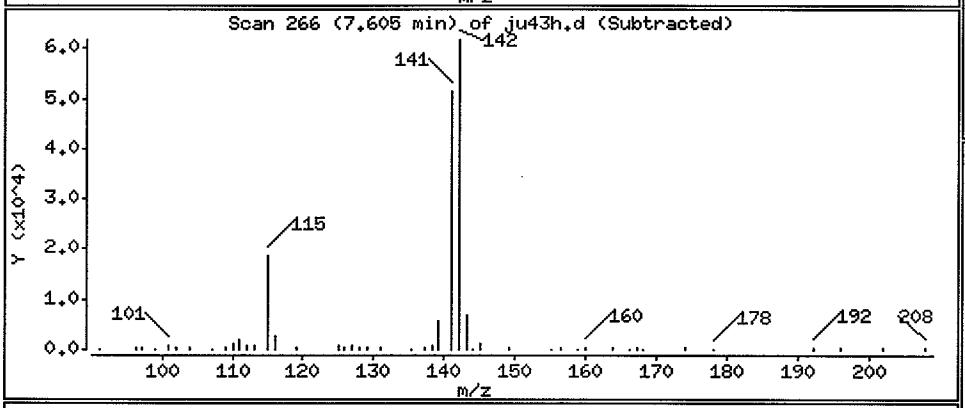
Column phase: ZB-5

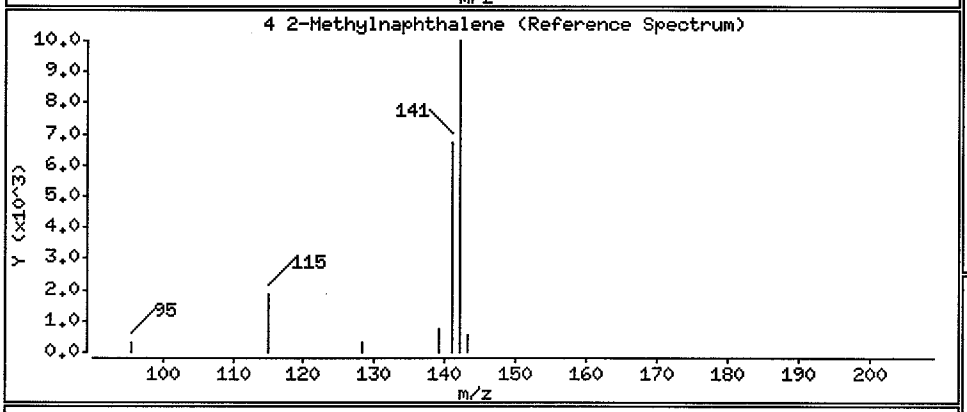
Column diameter: 0.25

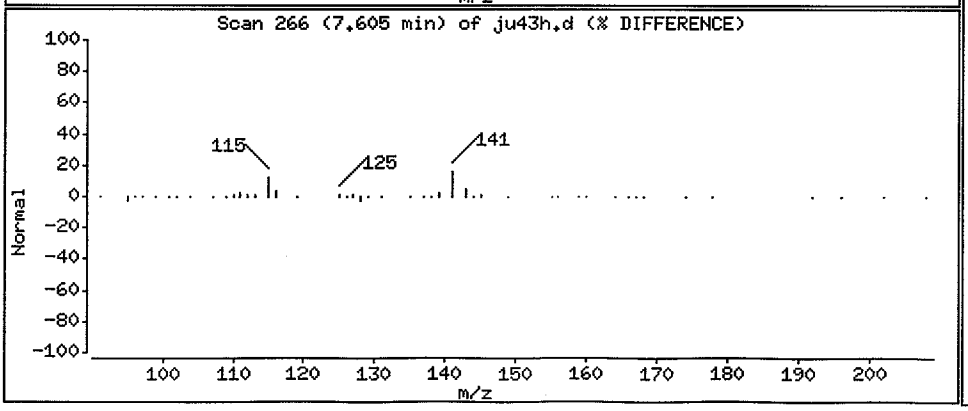
4 2-Methylnaphthalene

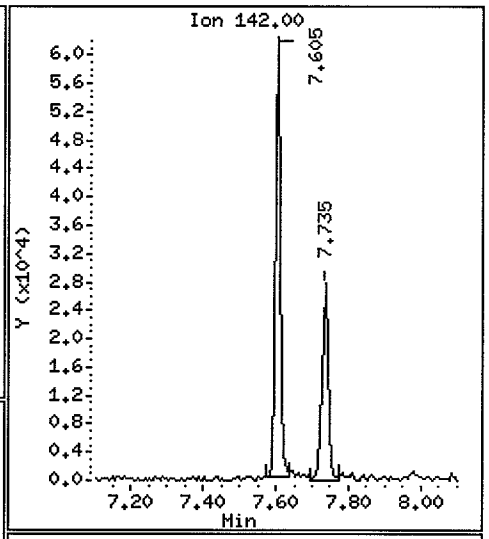
Concentration: 32.55 ug/kg

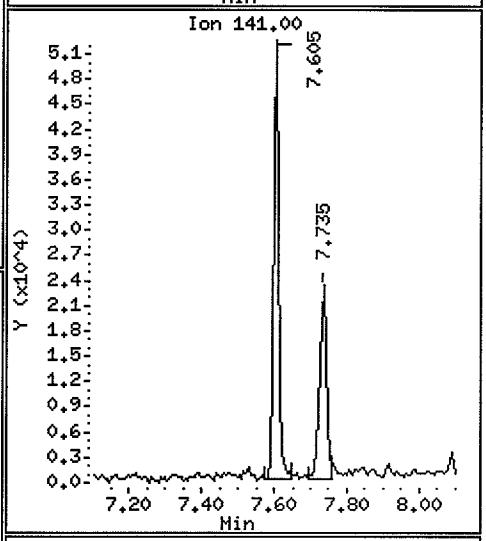


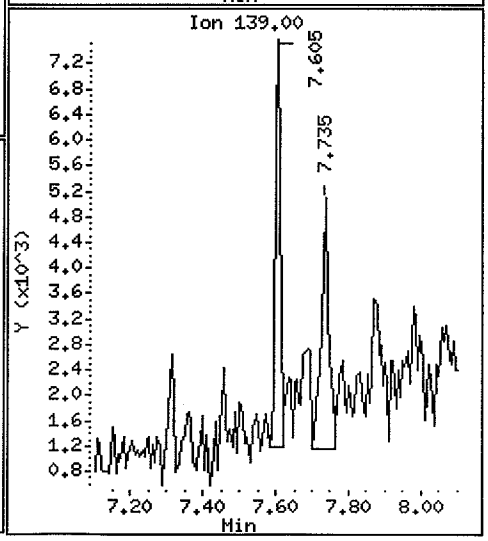












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

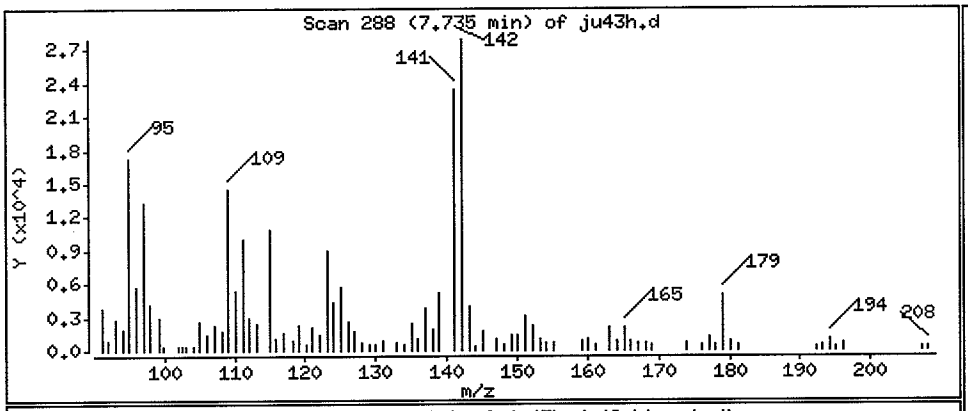
Operator: VTS

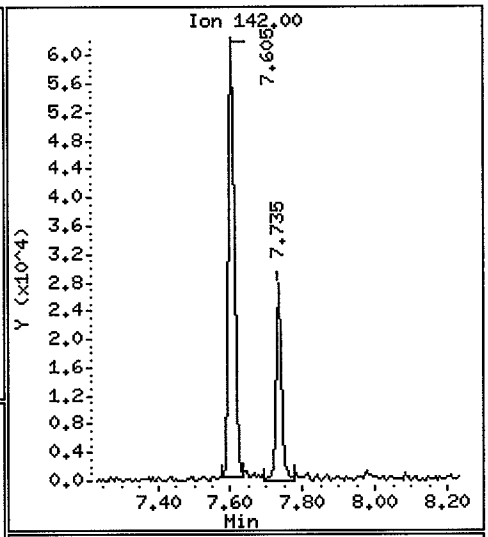
Column phase: ZB-5

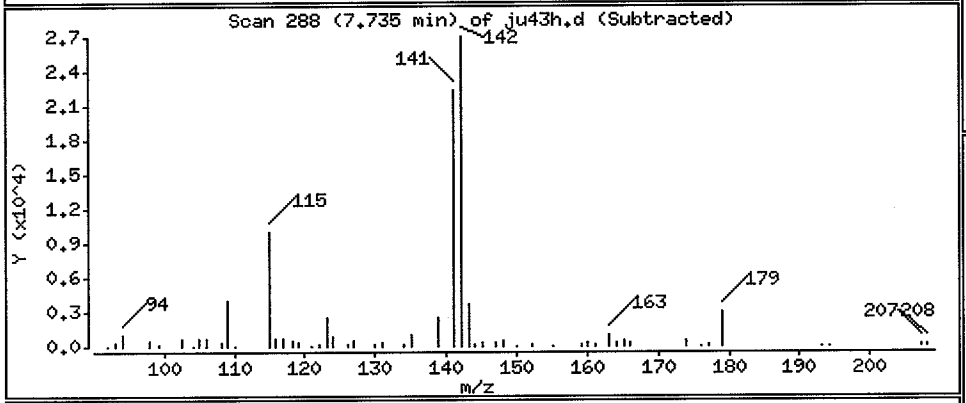
Column diameter: 0.25

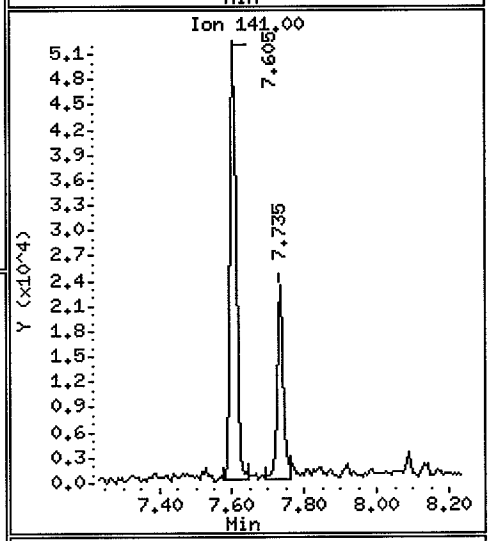
5 1-Methylnaphthalene

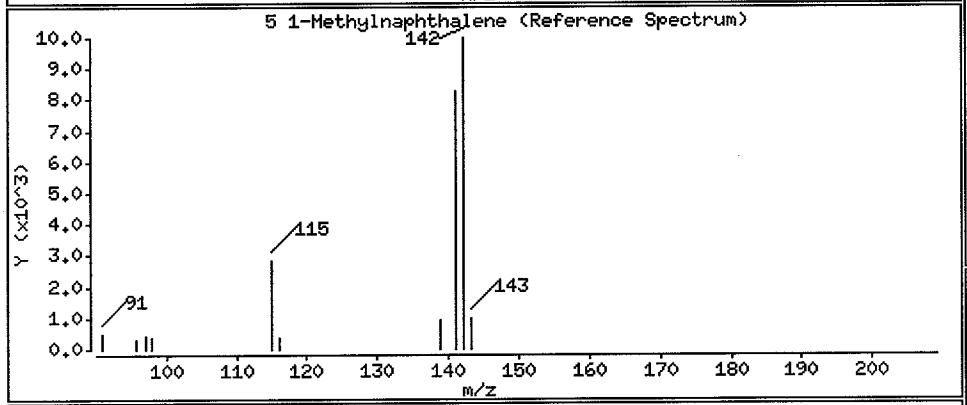
Concentration: 15.44 ug/kg

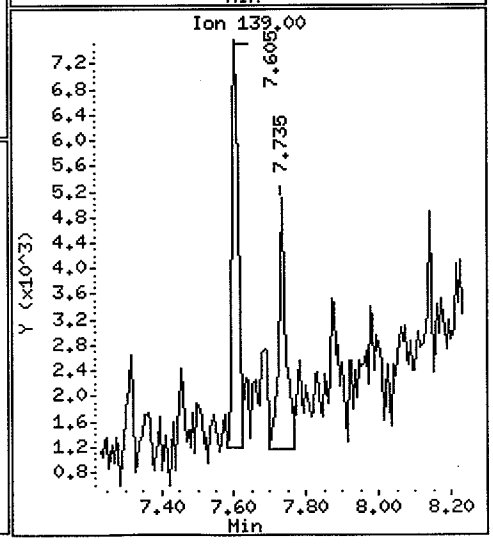


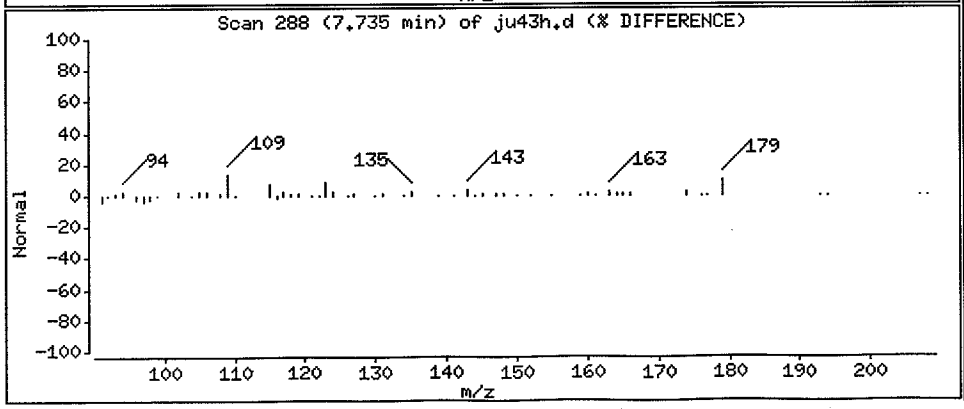












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

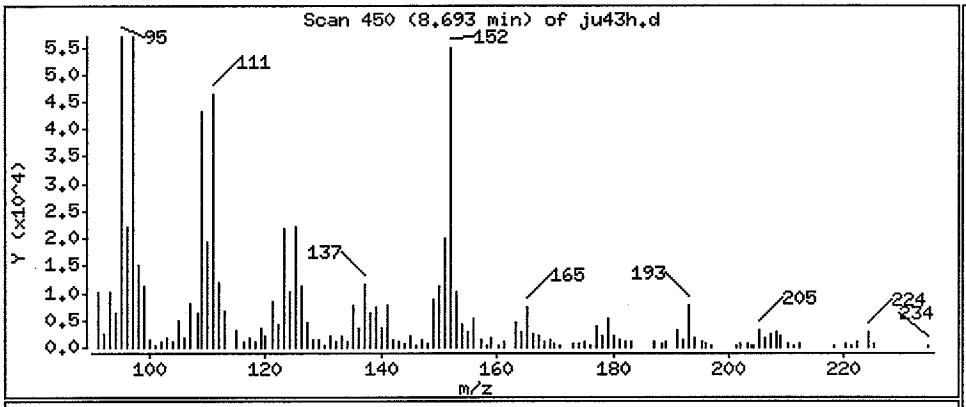
Operator: VTS

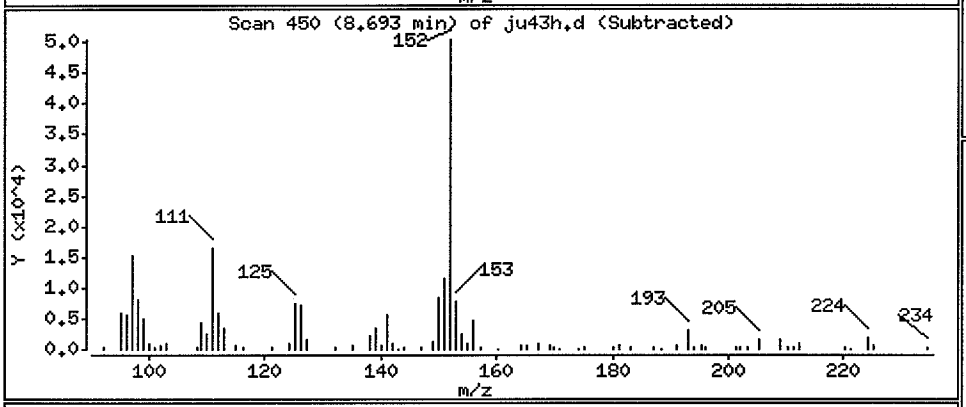
Column phase: ZB-5

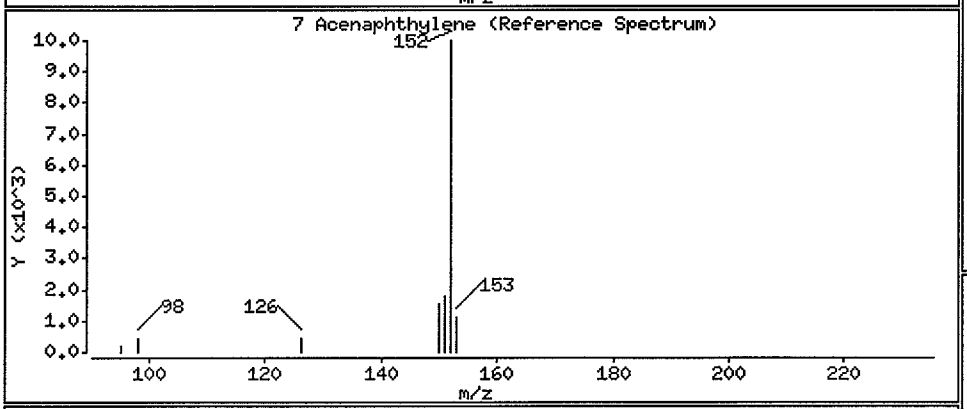
Column diameter: 0.25

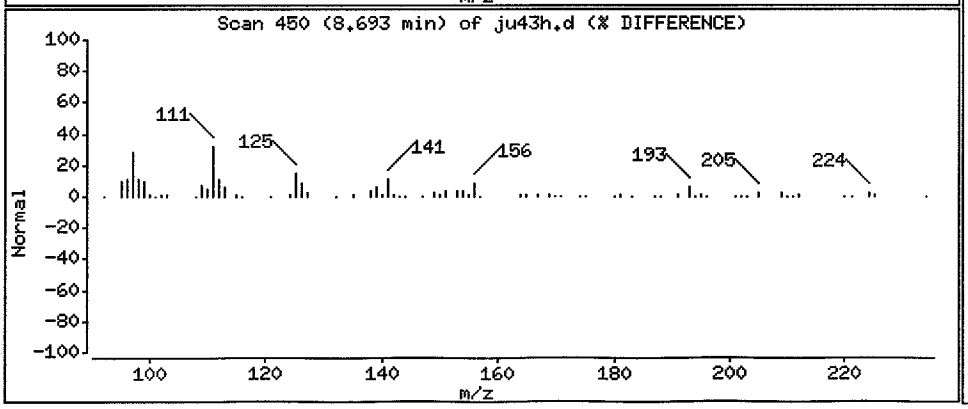
7 Acenaphthylene

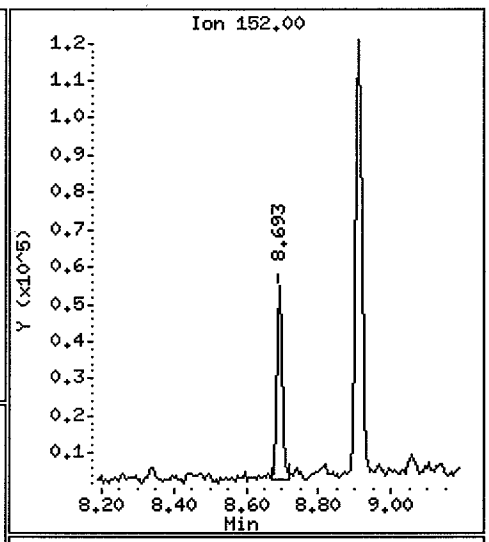
Concentration: 19.81 ug/kg

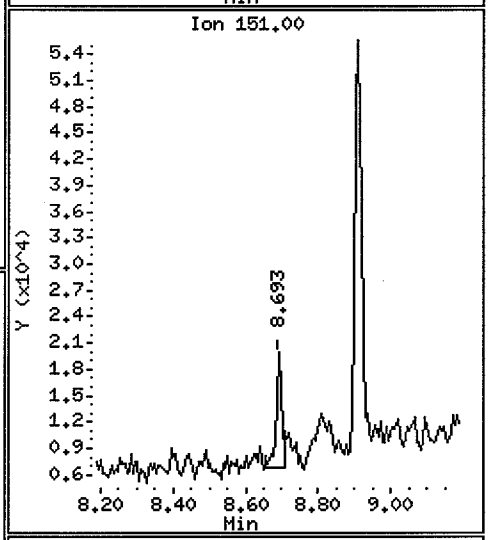


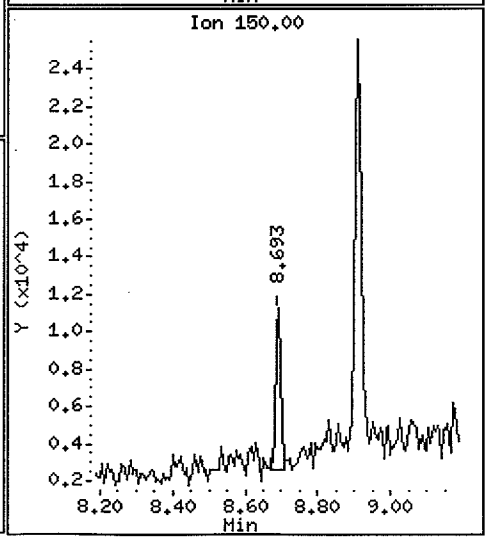












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

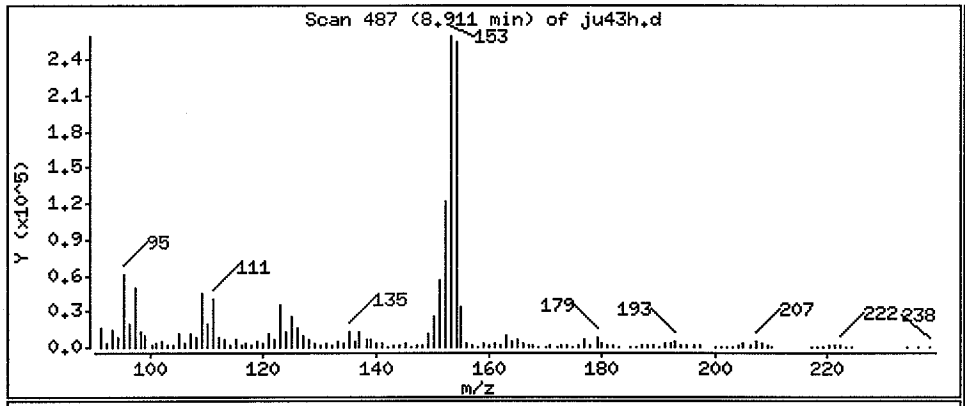
Operator: VTS

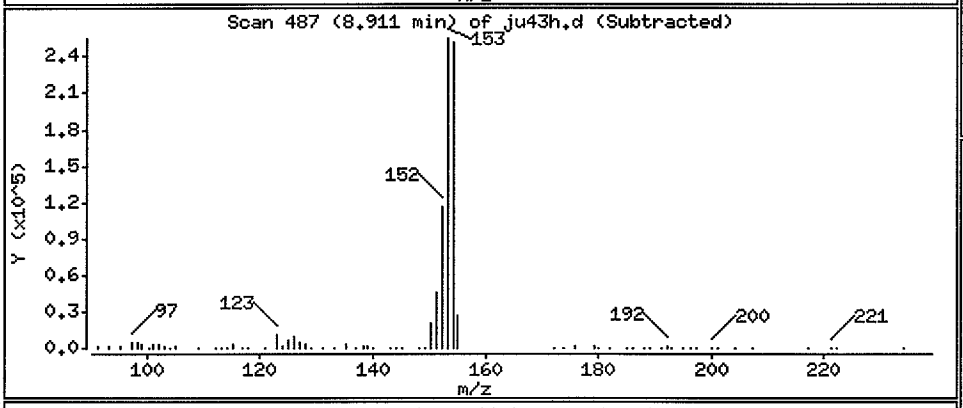
Column phase: ZB-5

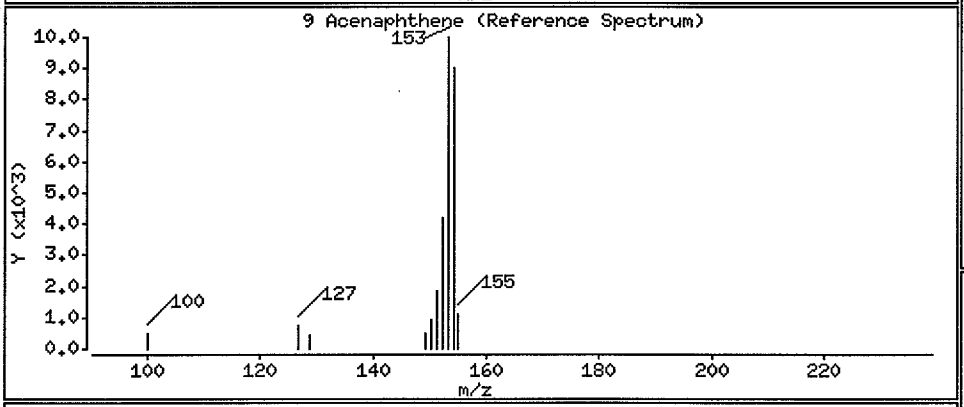
Column diameter: 0.25

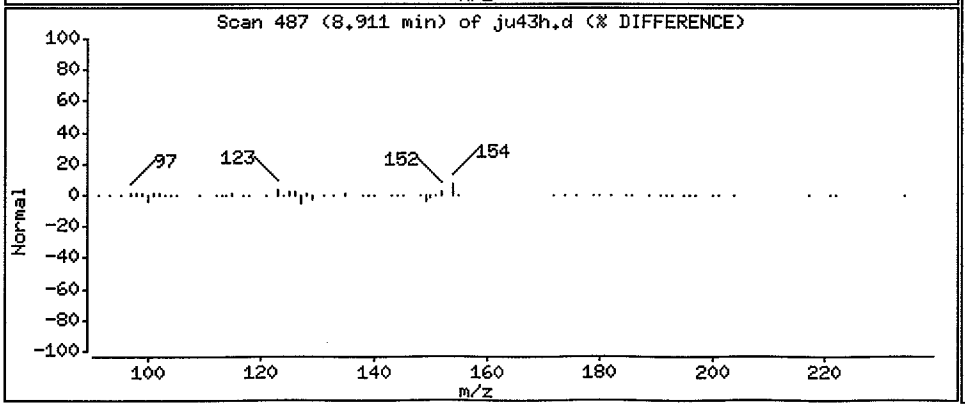
9 Acenaphthene

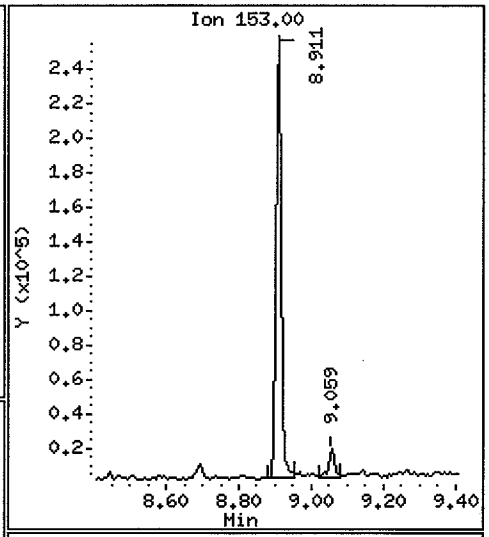
Concentration: 161.0 ug/kg

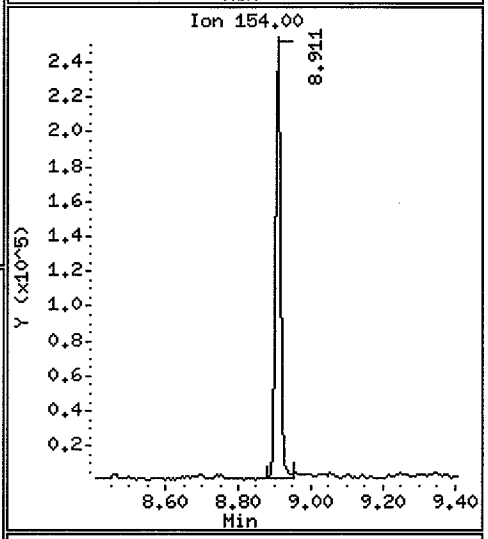


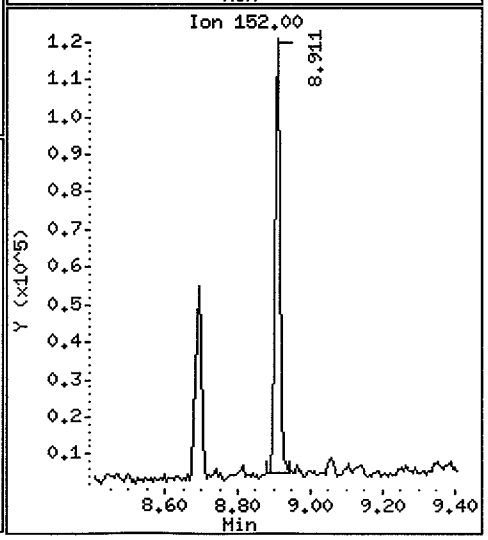












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

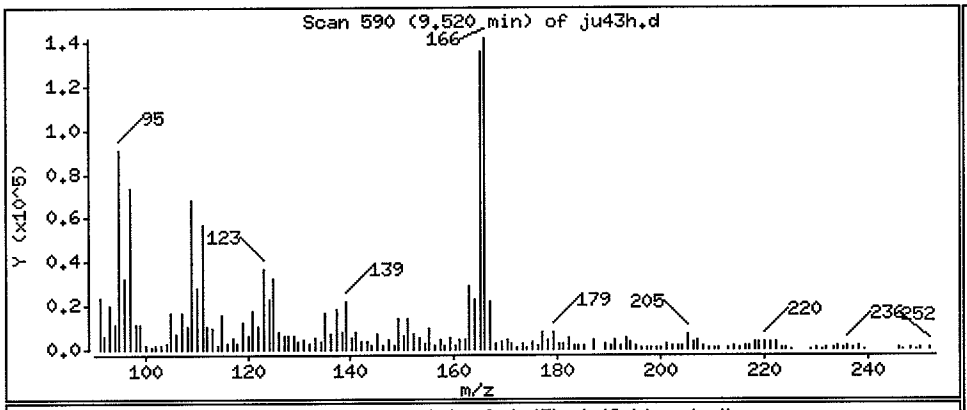
Operator: VTS

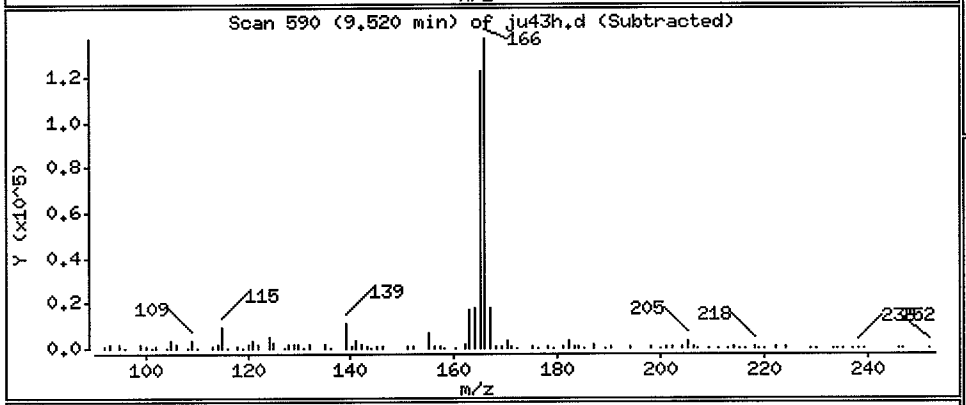
Column phase: ZB-5

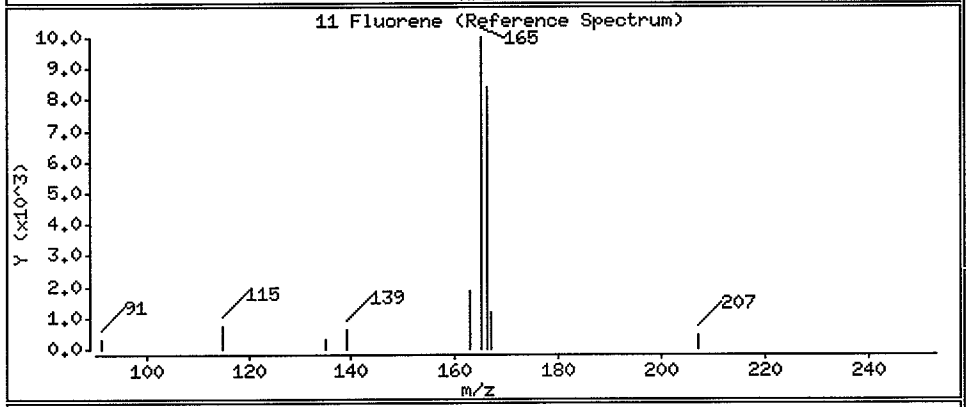
Column diameter: 0.25

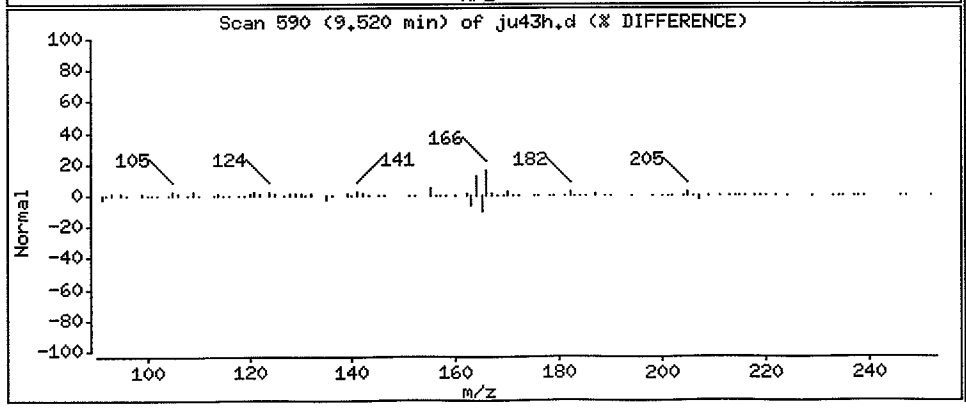
11 Fluorene

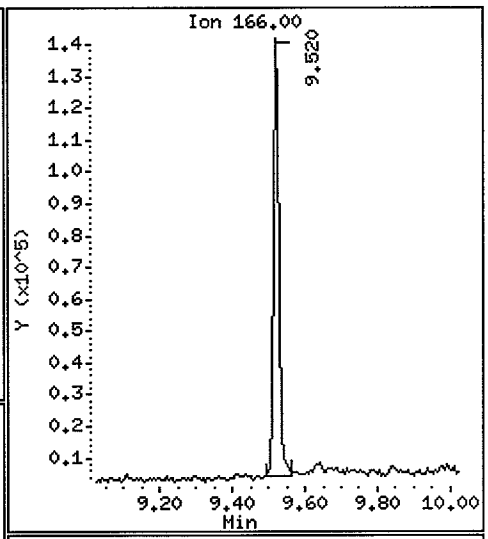
Concentration: 81.10 ug/kg

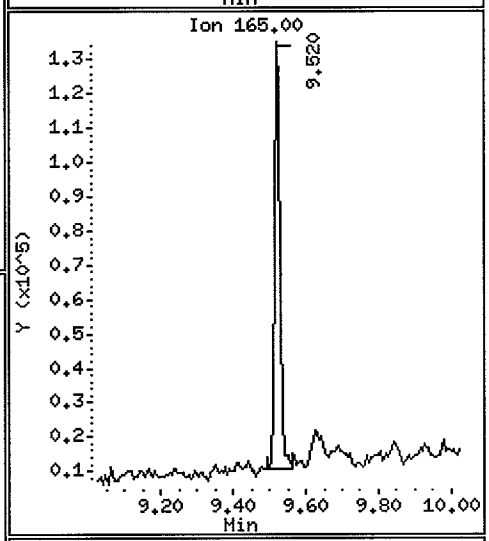


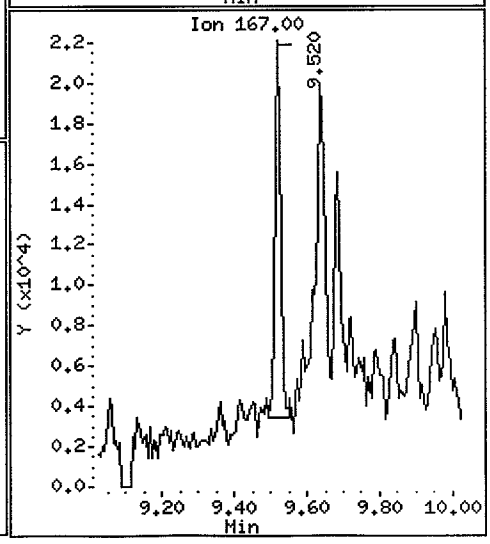












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

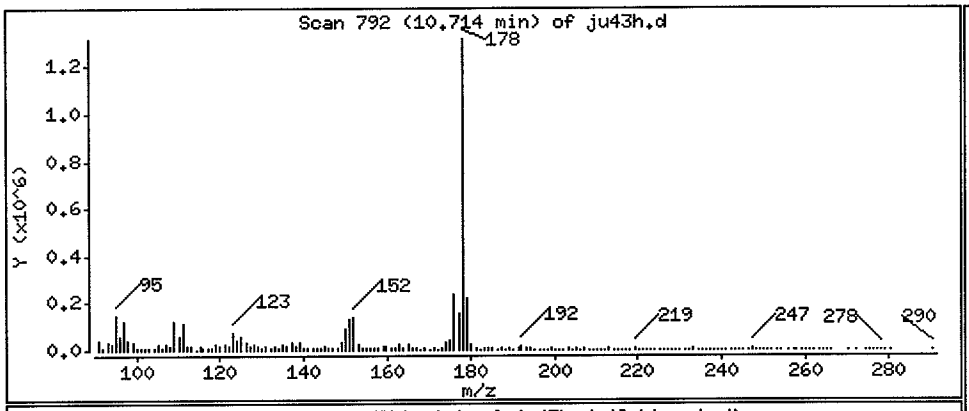
Operator: VTS

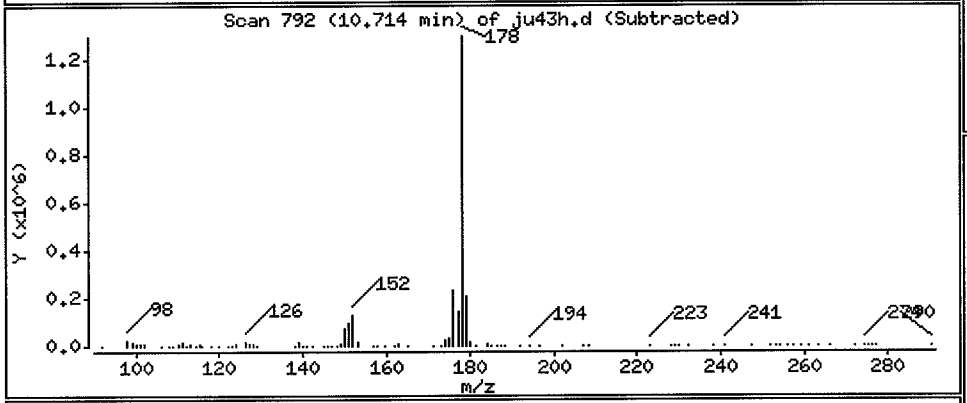
Column phase: ZB-5

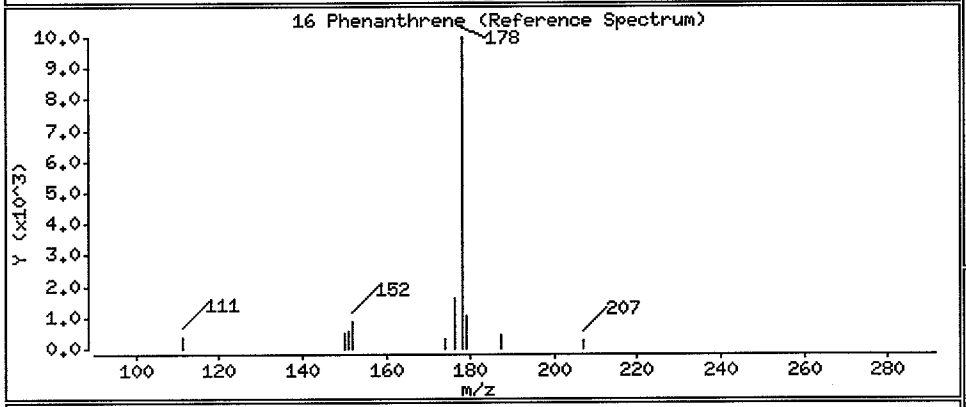
Column diameter: 0.25

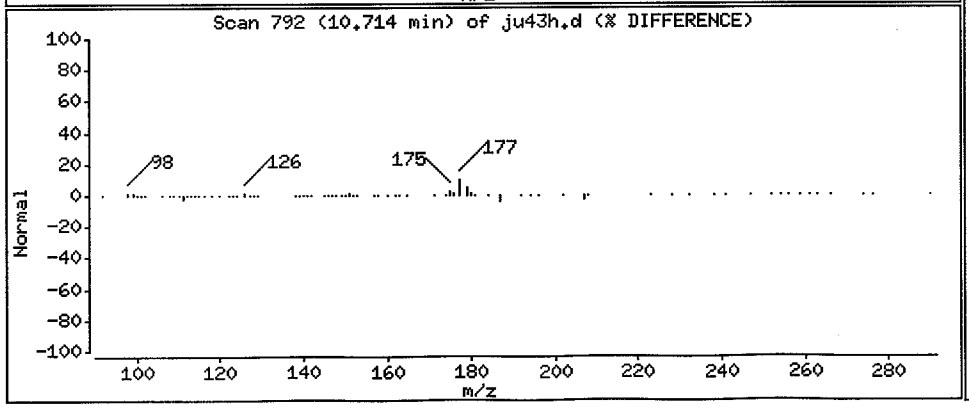
16 Phenanthrene

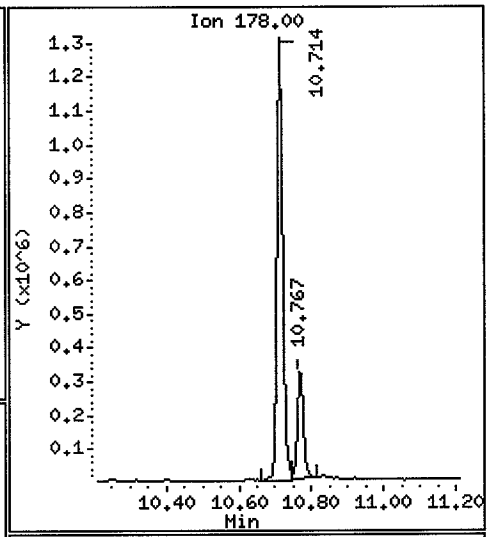
Concentration: 650.5 ug/kg

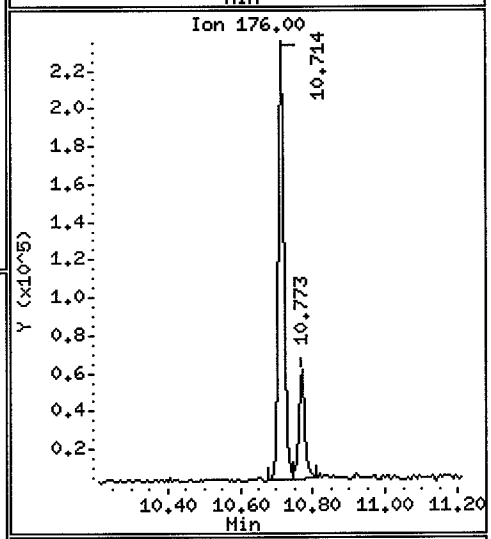


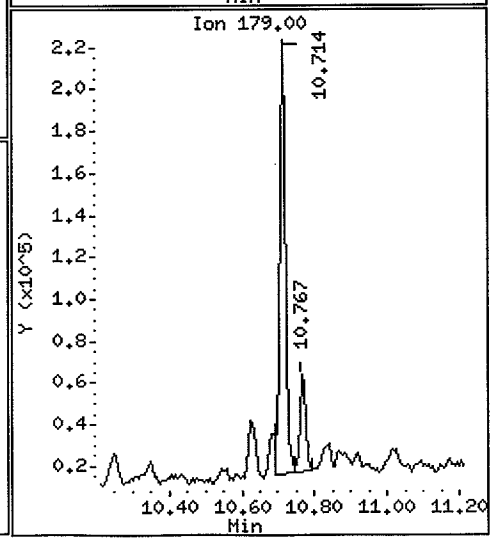












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

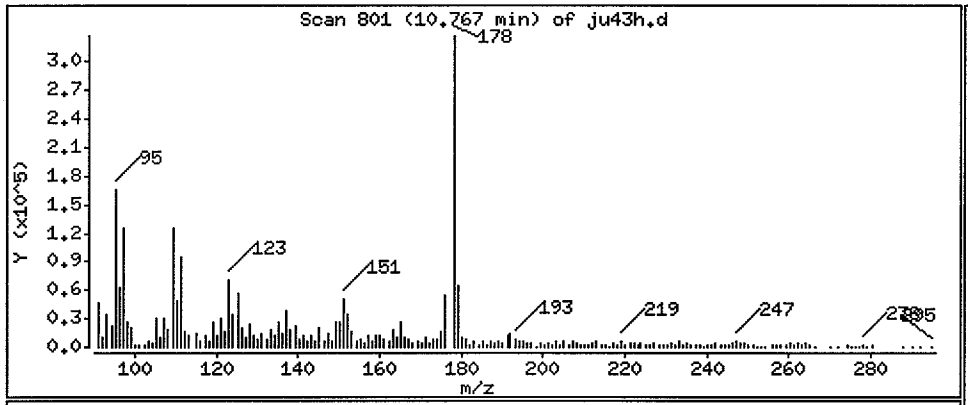
Operator: VTS

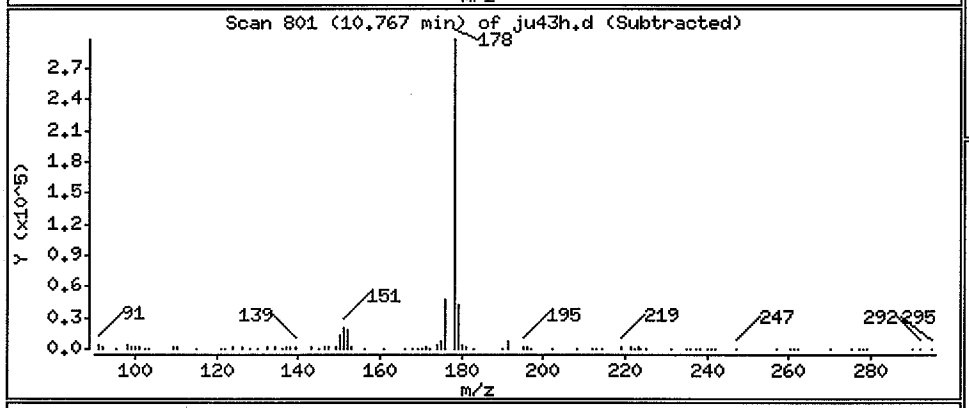
Column phase: ZB-5

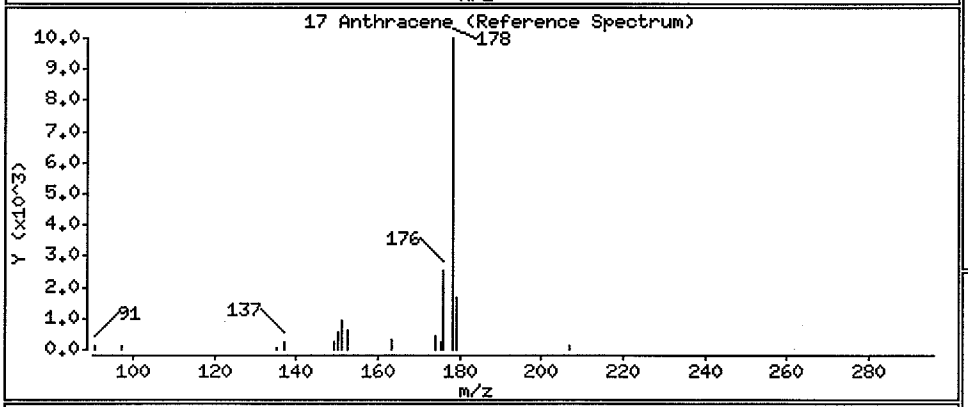
Column diameter: 0.25

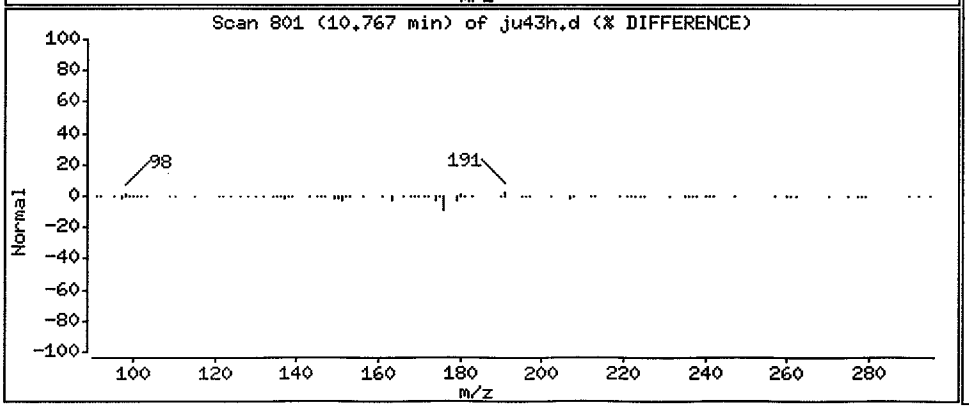
17 Anthracene

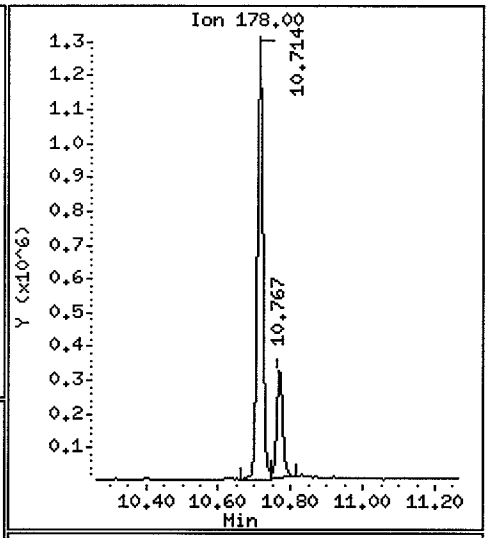
Concentration: 167.1 ug/kg

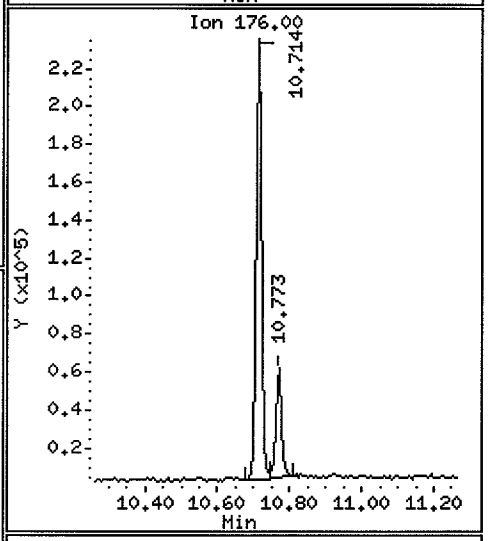


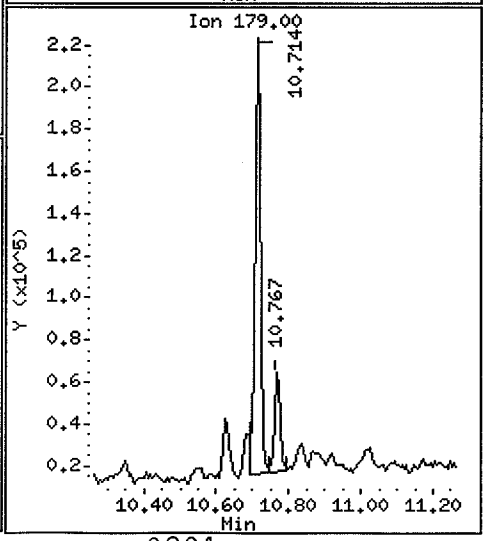












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

Operator: VTS

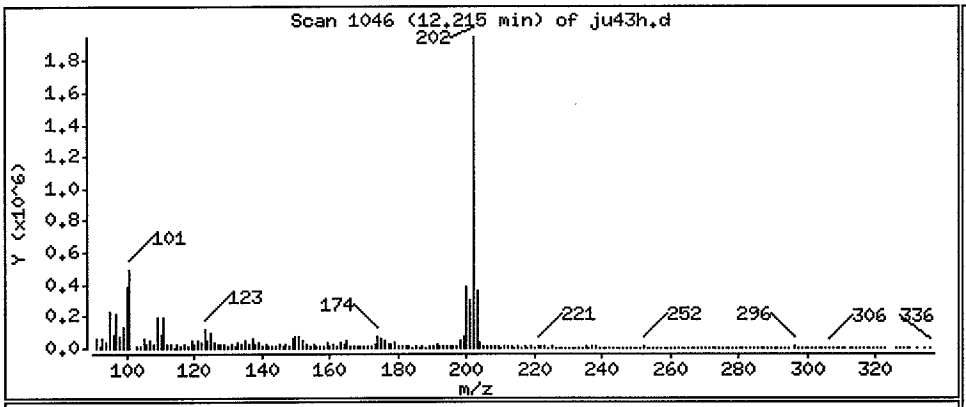
Column phase: ZB-5

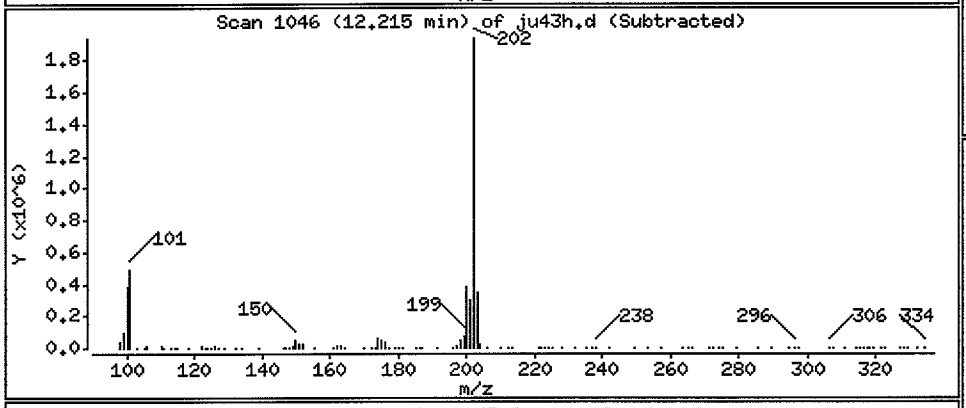
Column diameter: 0.25

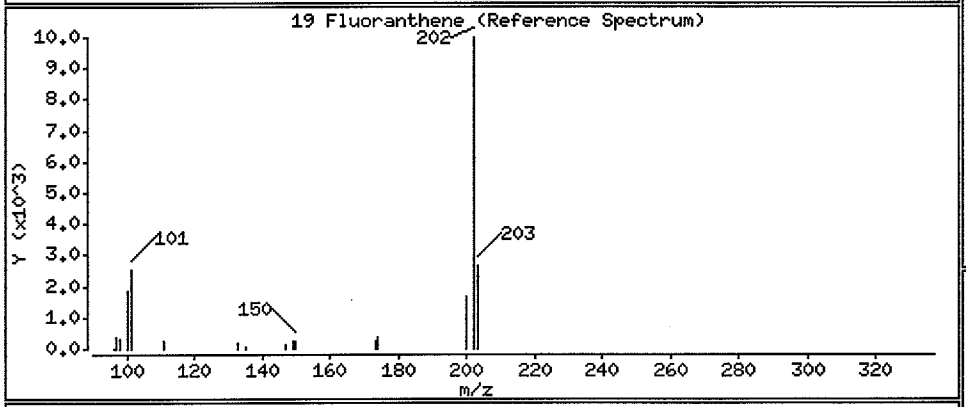
19 Fluoranthene

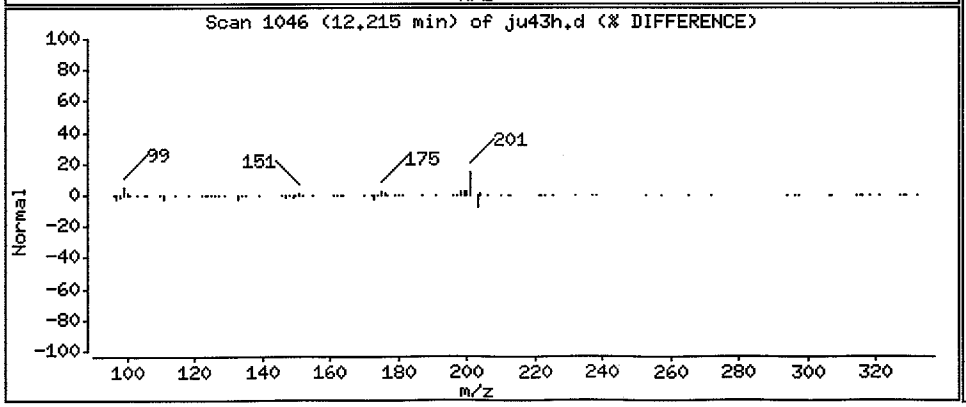
Concentration: 1262 ug/kg

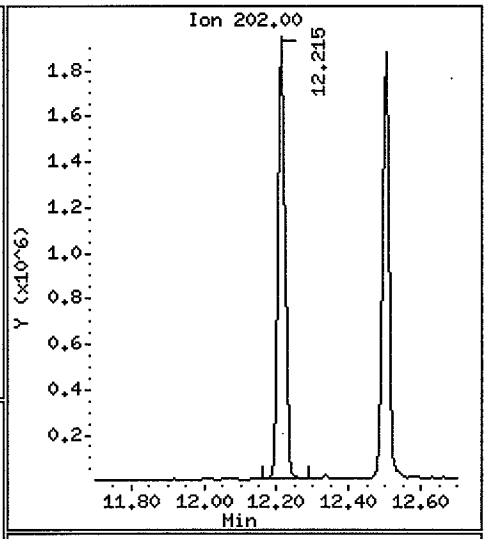
F

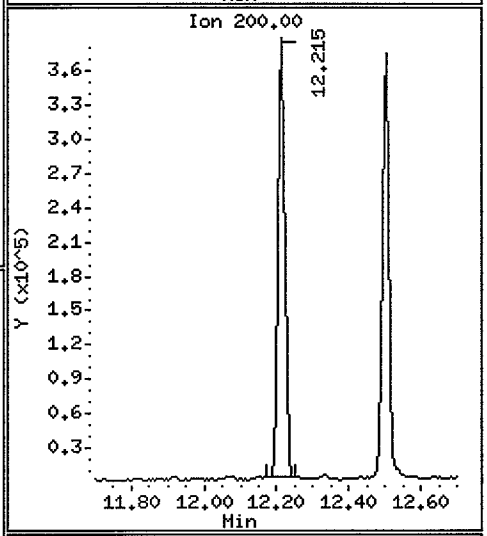


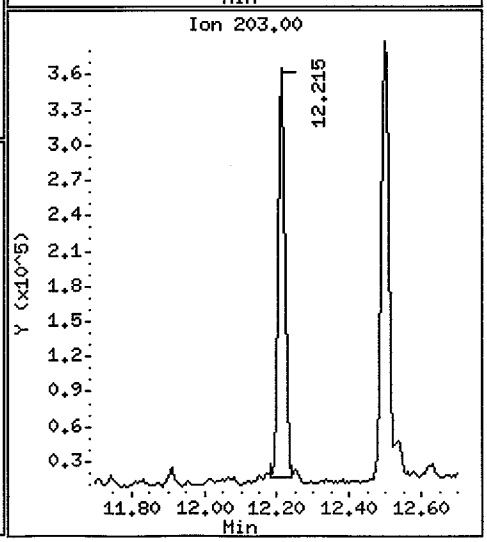












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

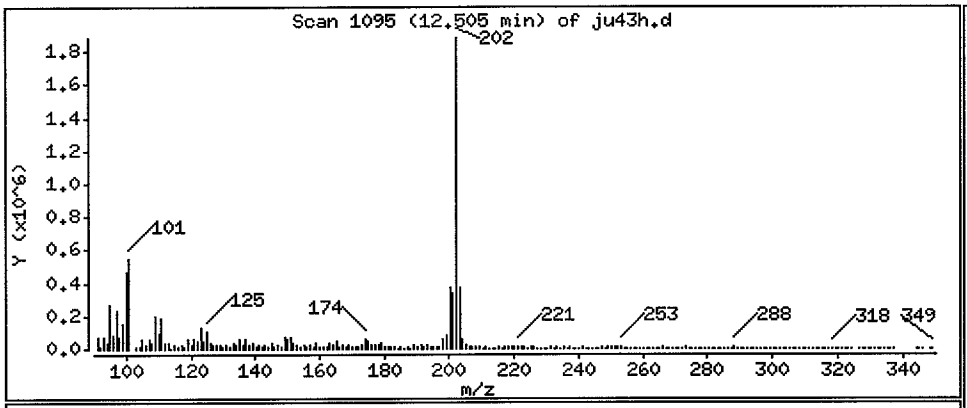
Operator: VTS

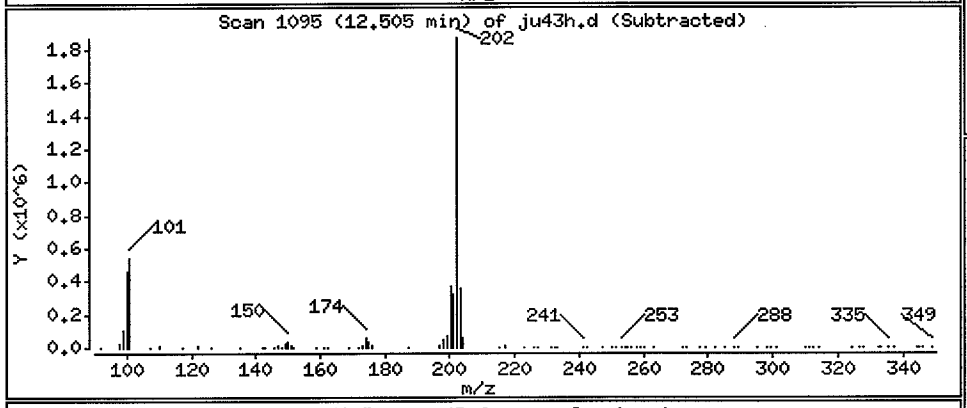
Column phase: ZB-5

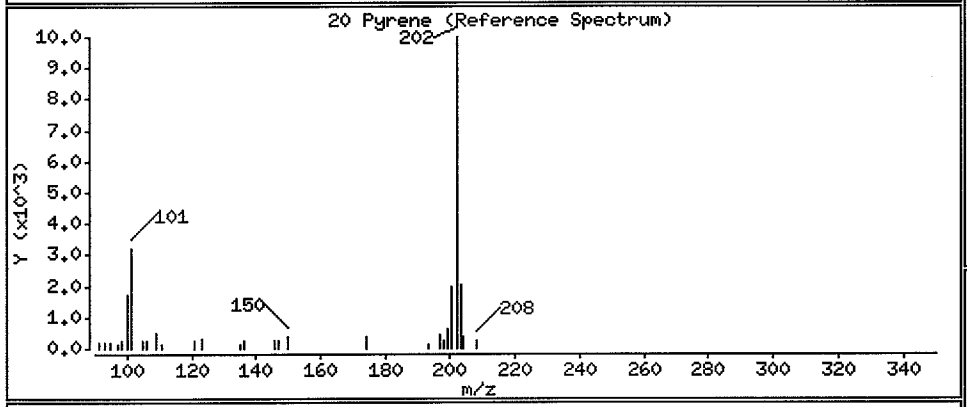
Column diameter: 0.25

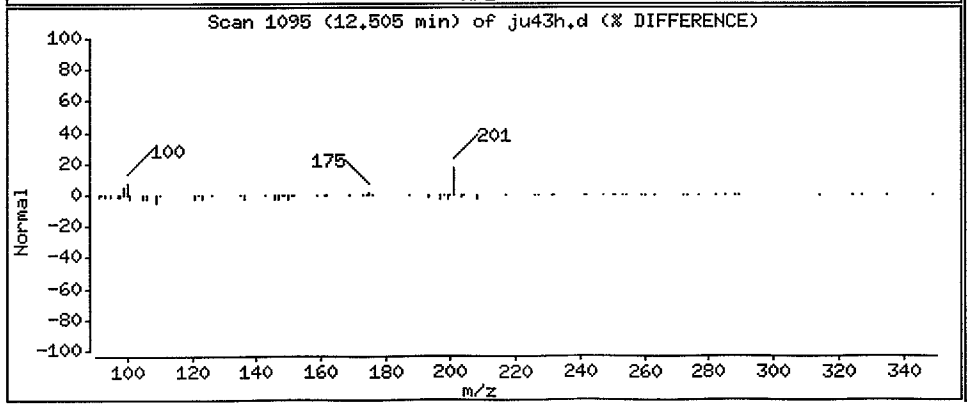
20 Pyrene

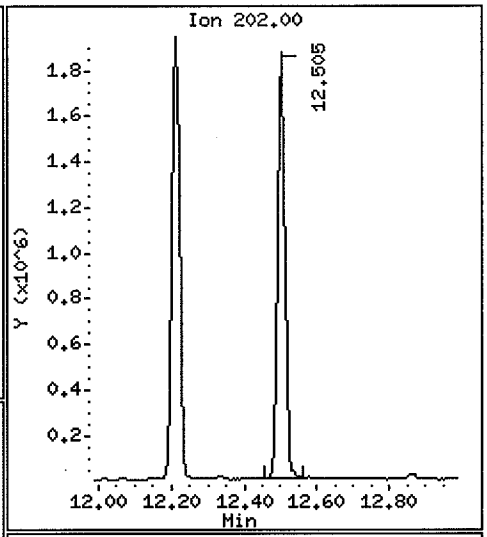
Concentration: 1250 ug/kg

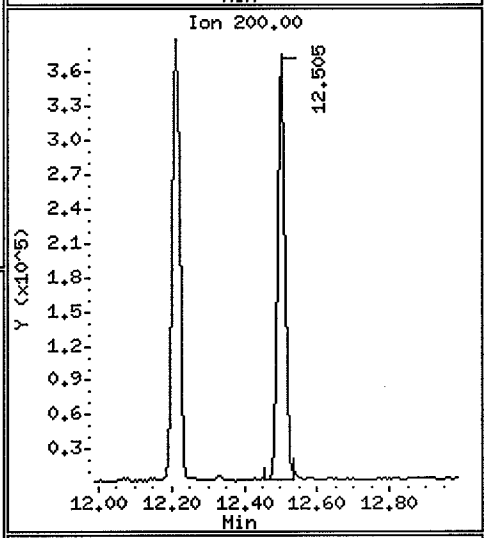


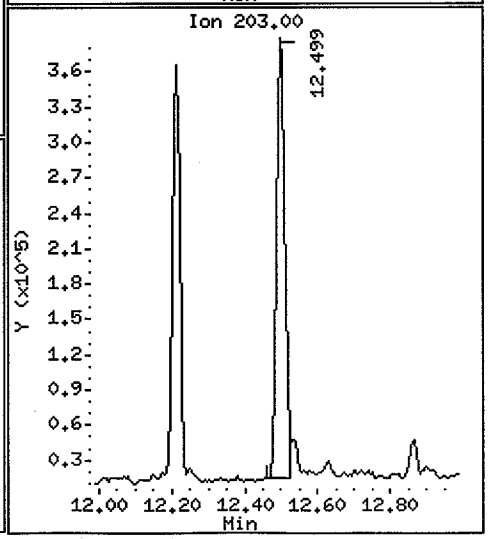












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

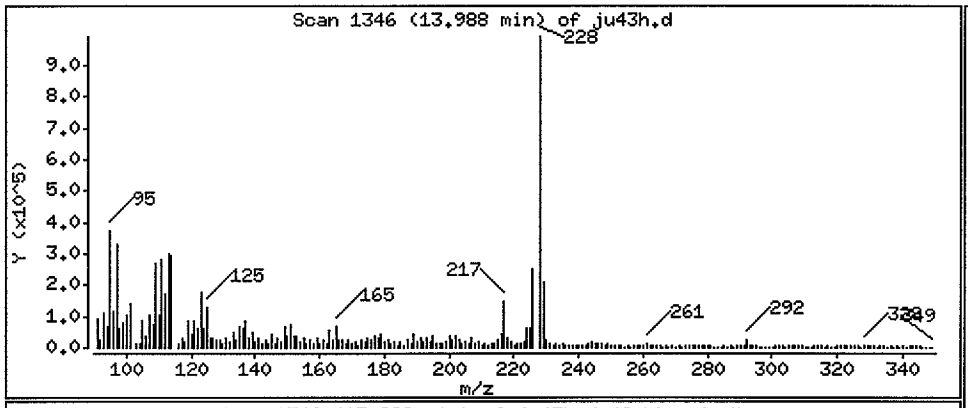
Operator: VTS

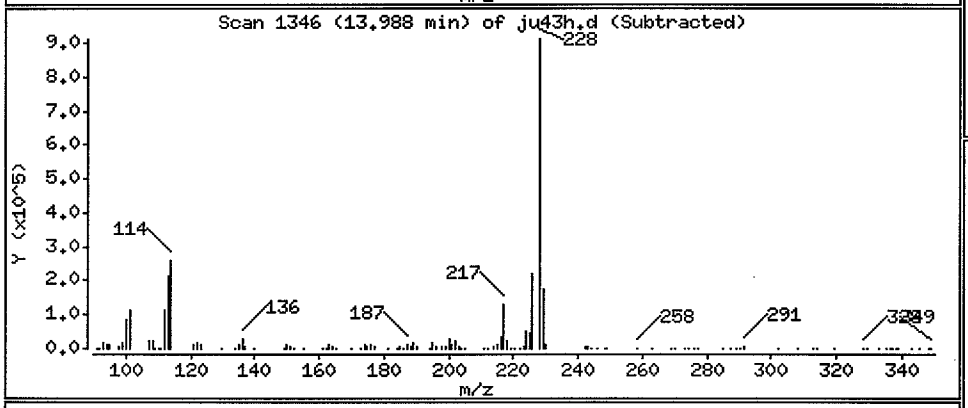
Column phase: ZB-5

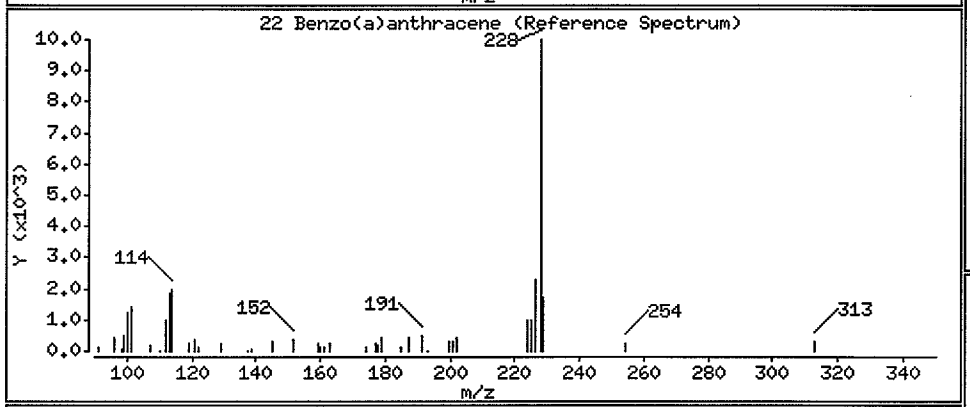
Column diameter: 0.25

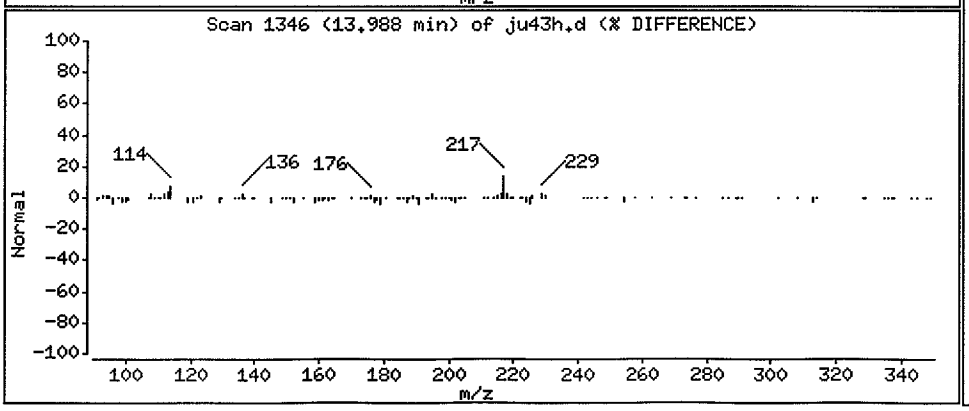
22 Benzo(a)anthracene

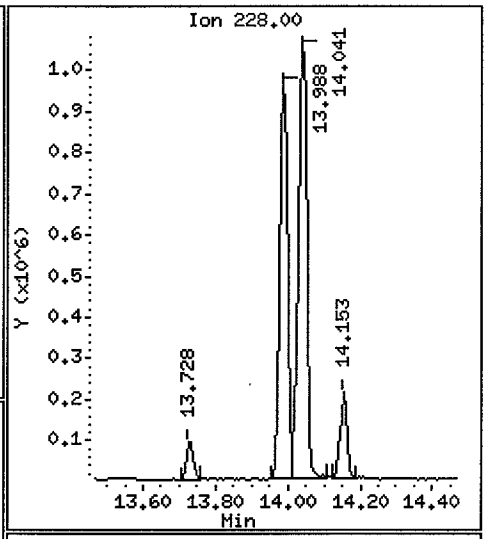
Concentration: 772.6 ug/kg

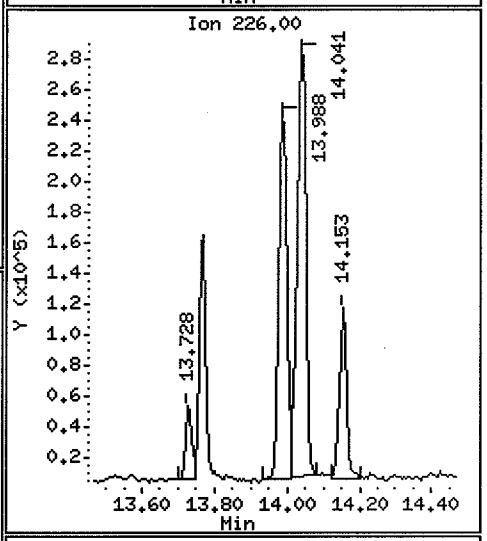


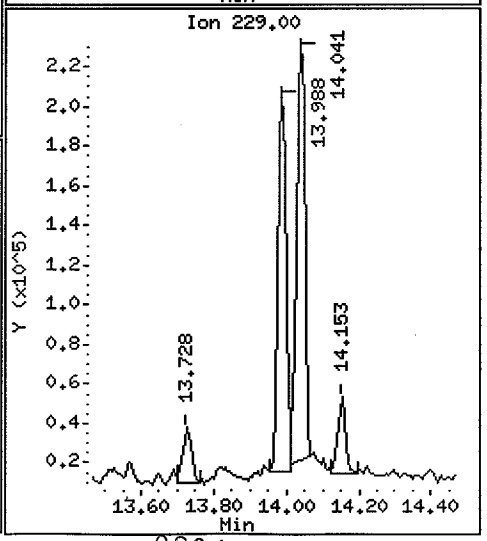












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

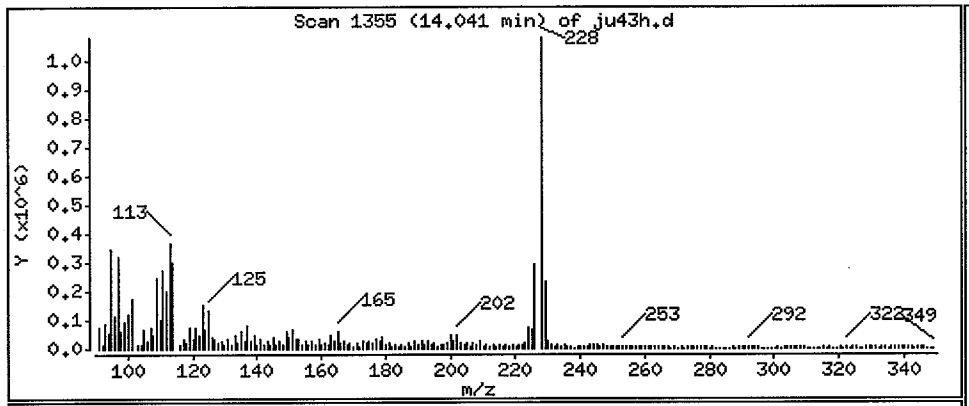
Operator: VTS

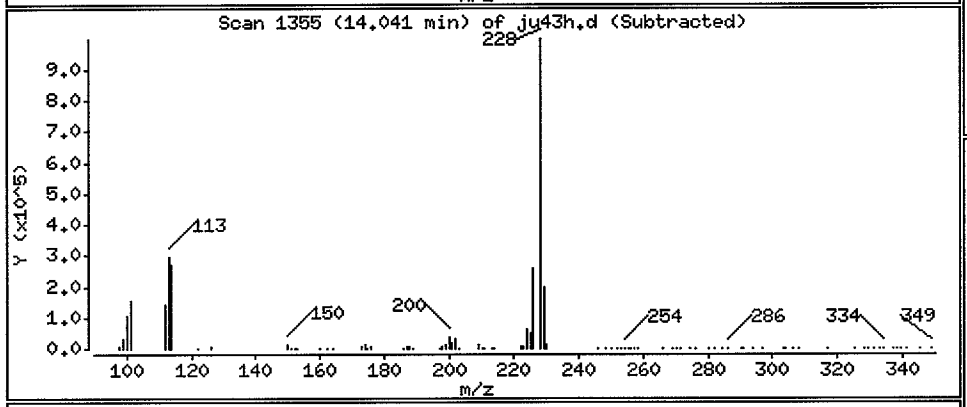
Column phase: ZB-5

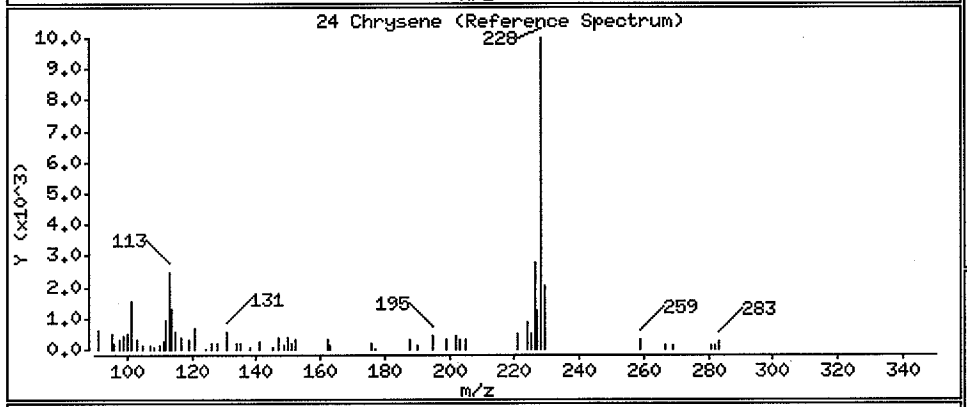
Column diameter: 0.25

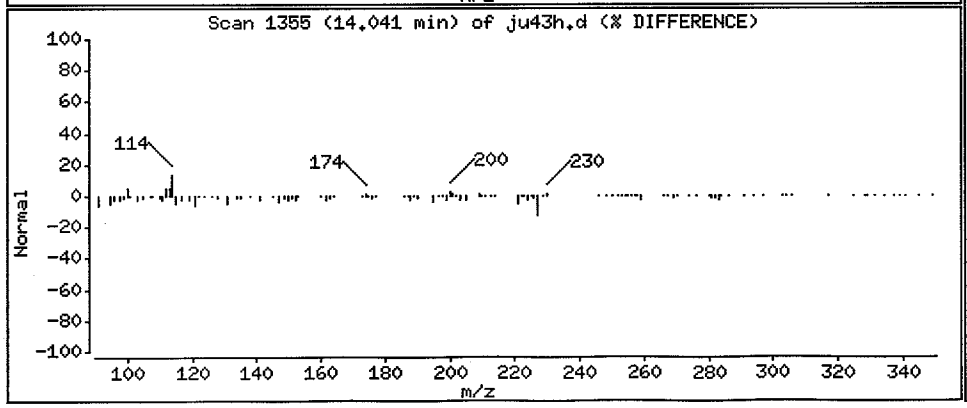
24 Chrysene

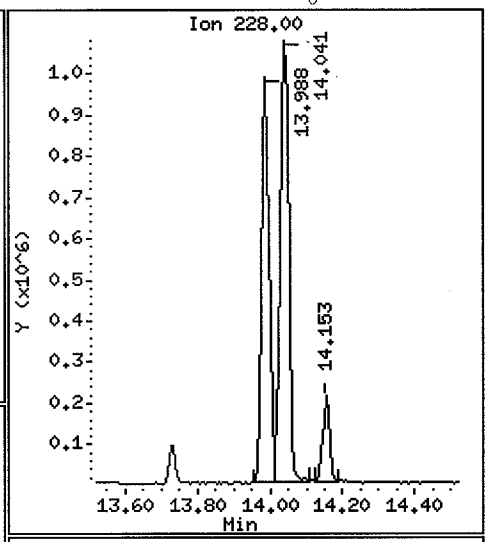
Concentration: 974.7 ug/kg

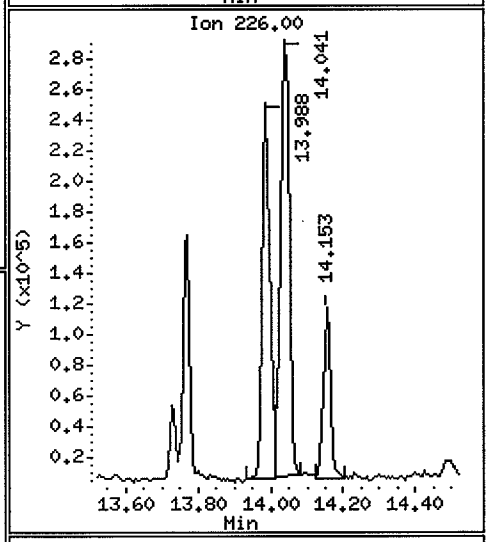


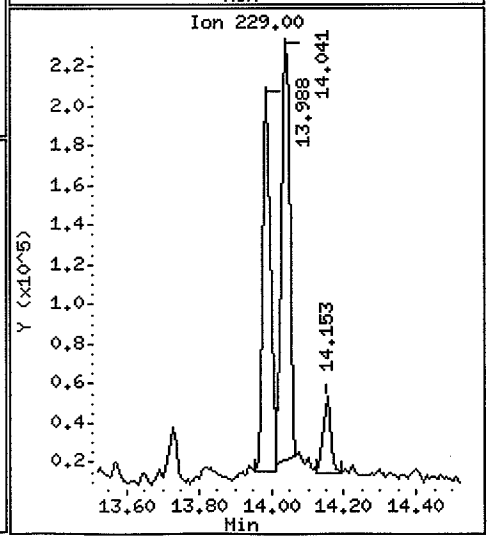












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

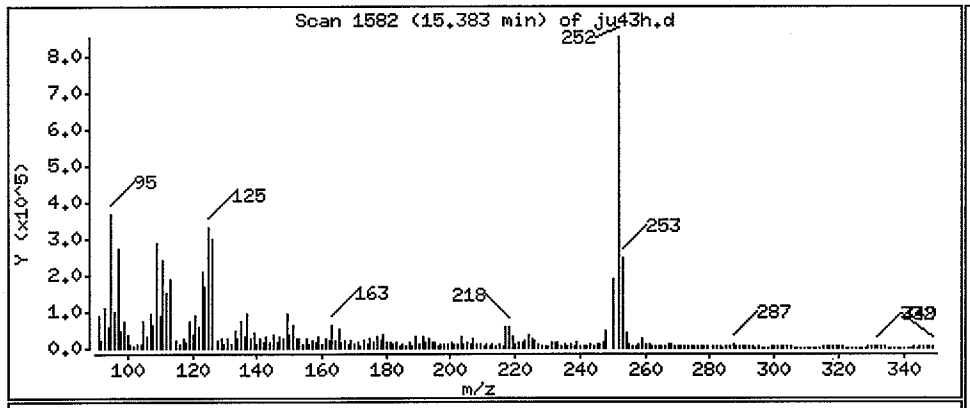
Operator: VTS

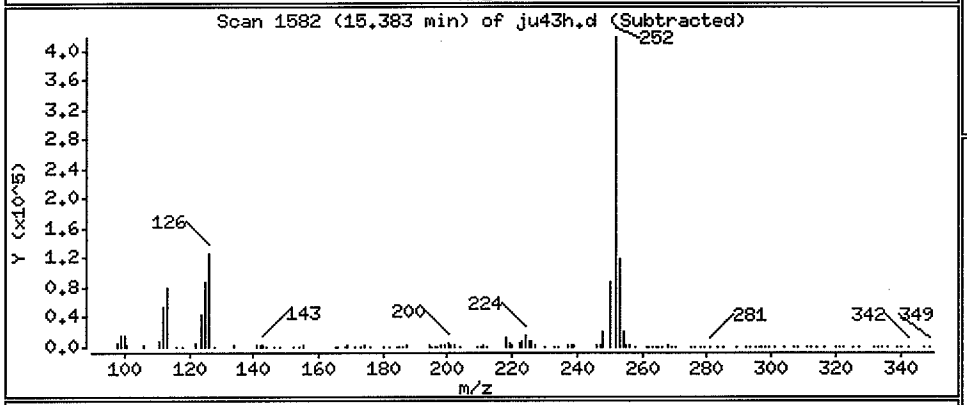
Column phase: ZB-5

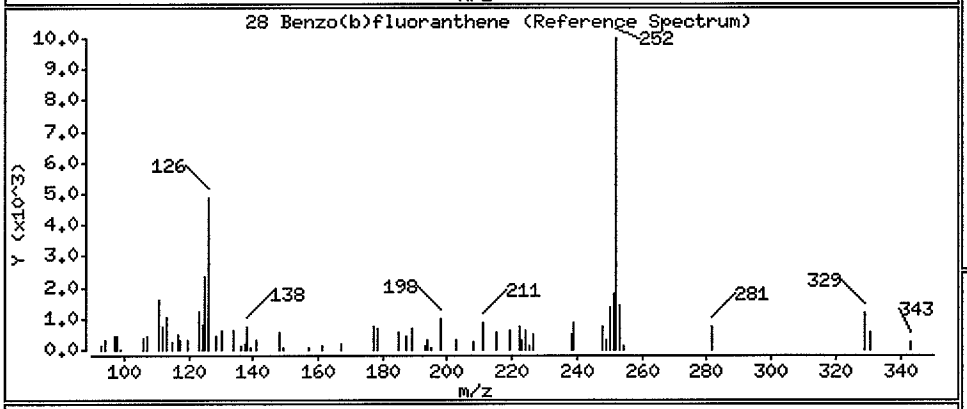
Column diameter: 0.25

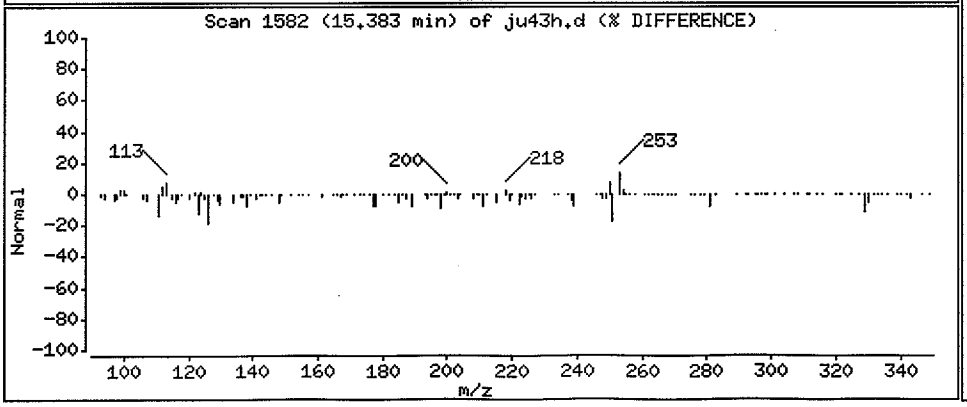
28 Benzo(b)fluoranthene

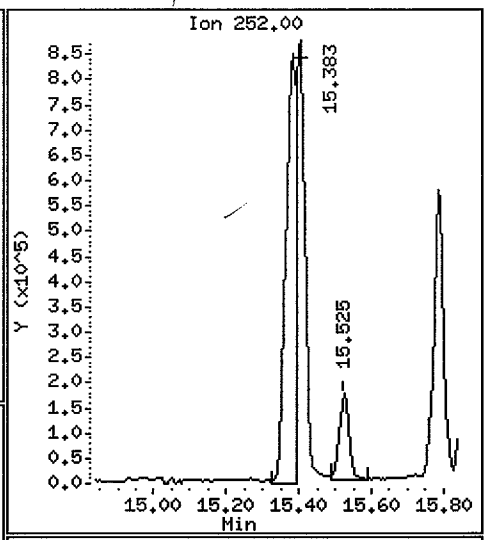
Concentration: 1116 ug/kg

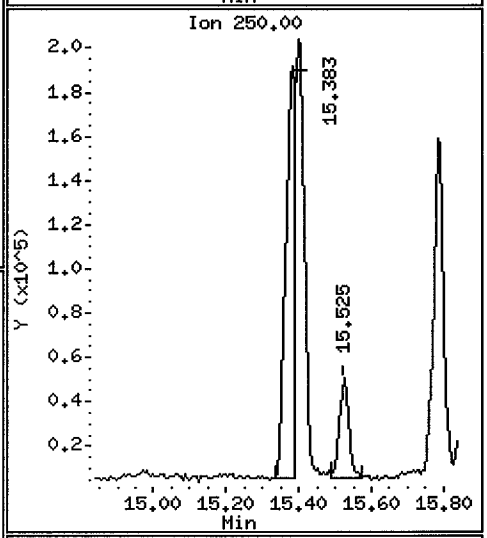


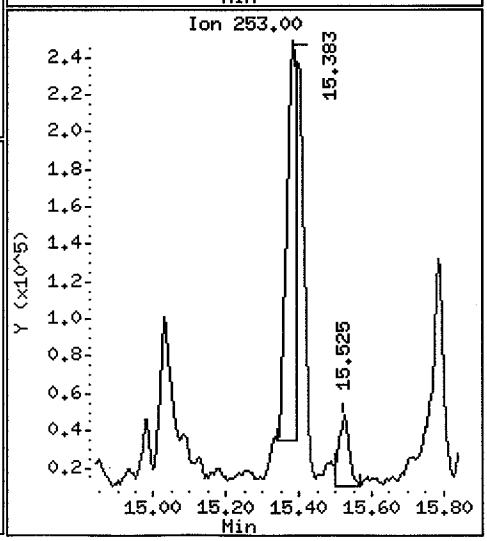












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

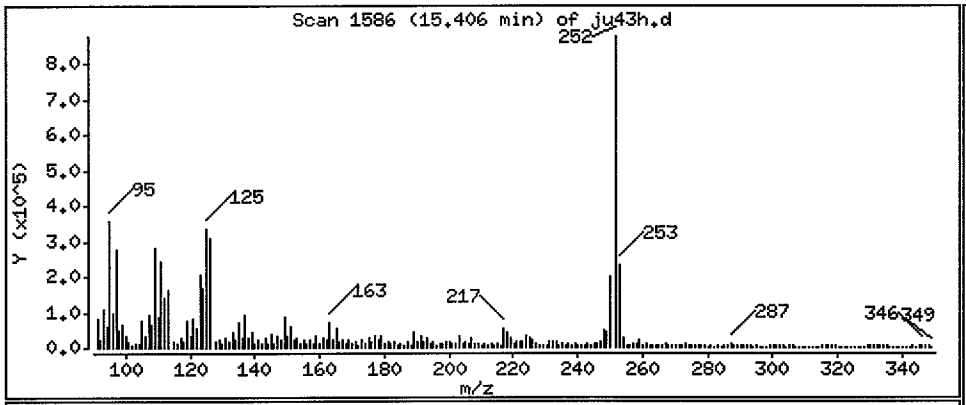
Operator: VTS

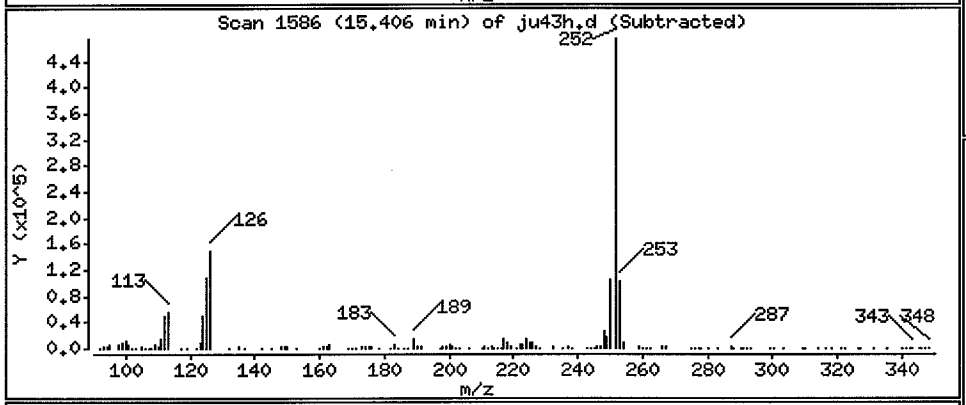
Column phase: ZB-5

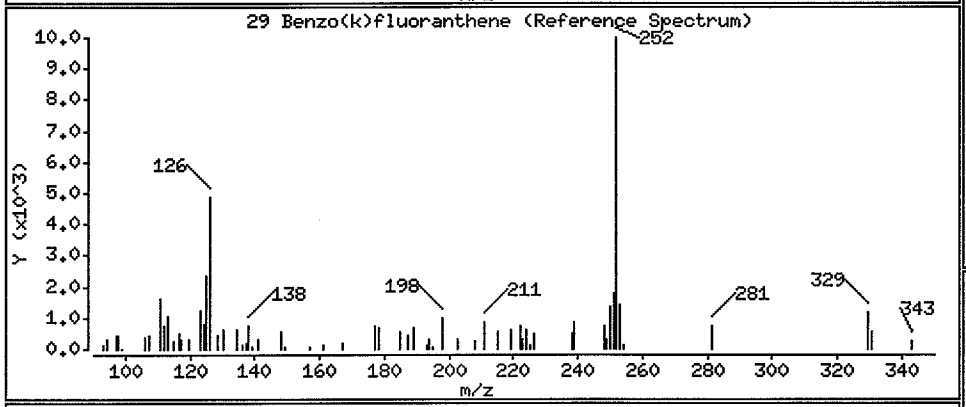
Column diameter: 0.25

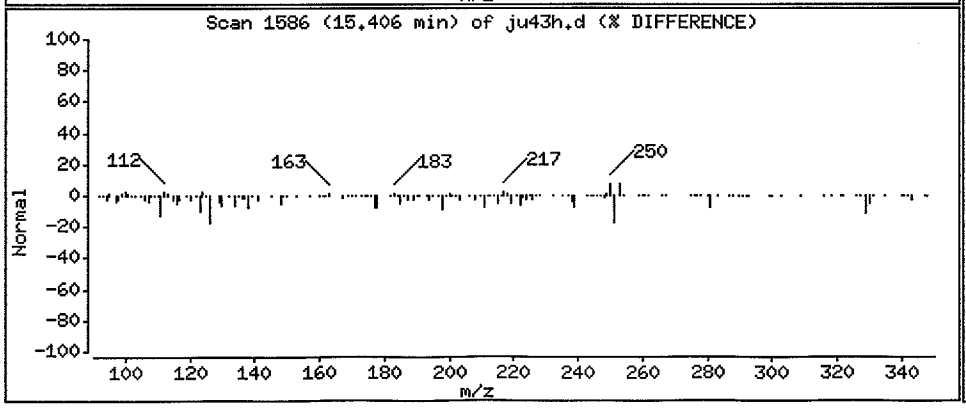
29 Benzo(k)fluoranthene

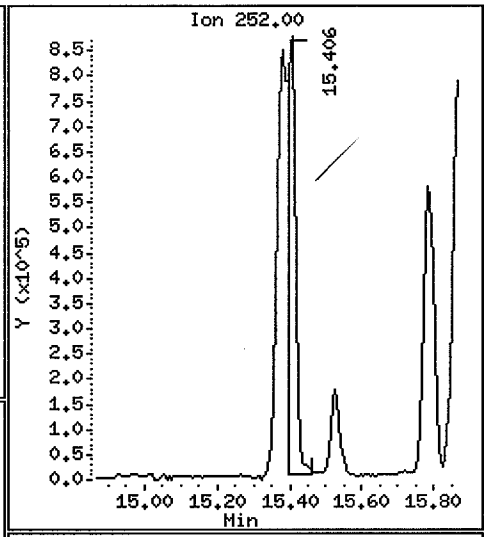
Concentration: 785.4 ug/kg

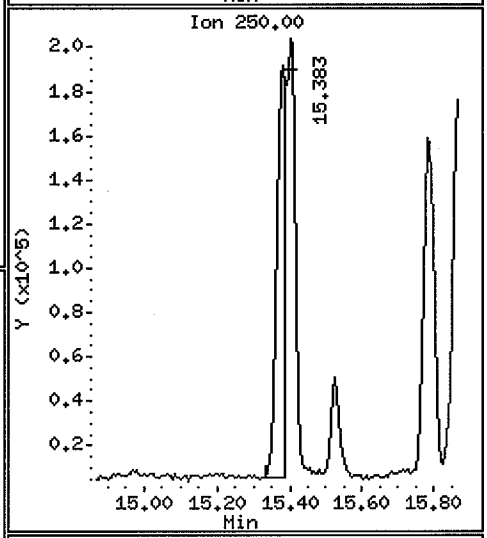


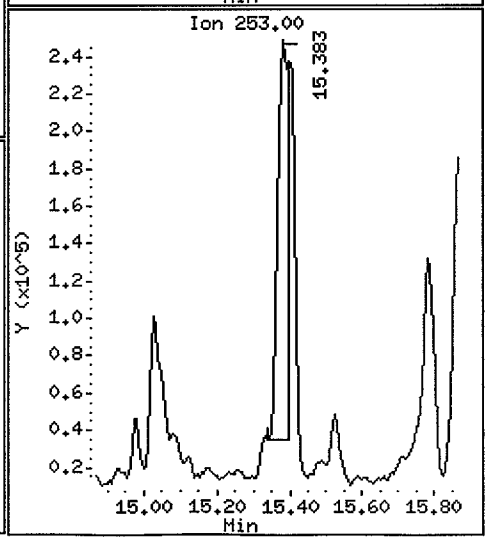












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

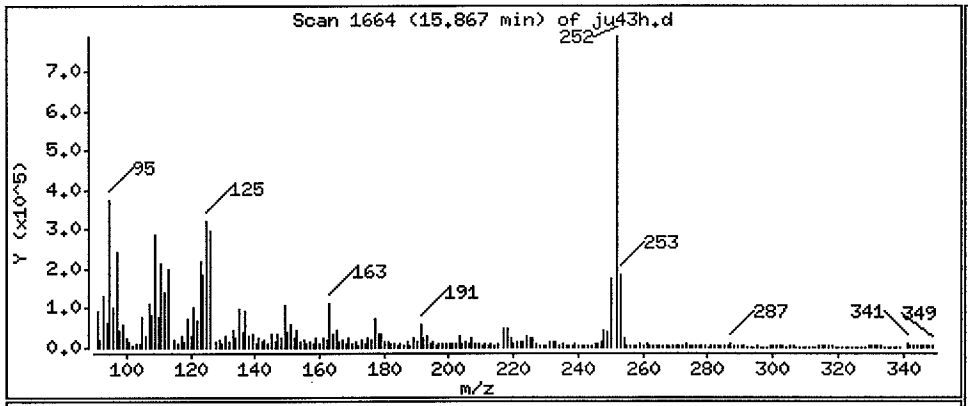
Operator: VTS

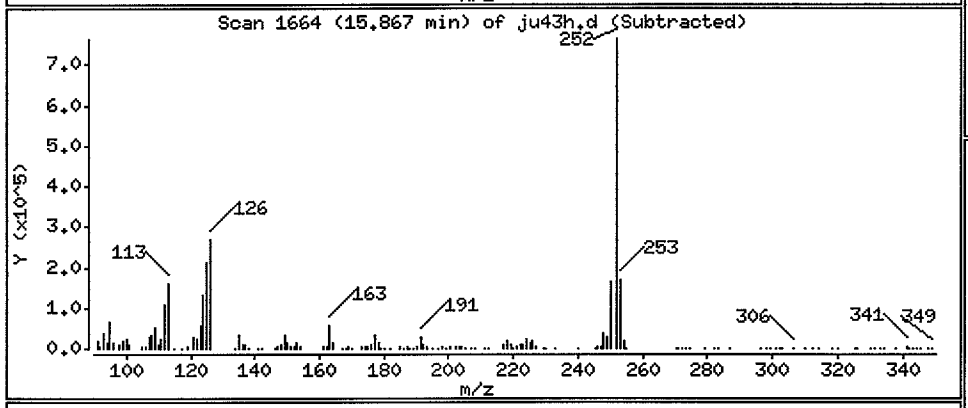
Column phase: ZB-5

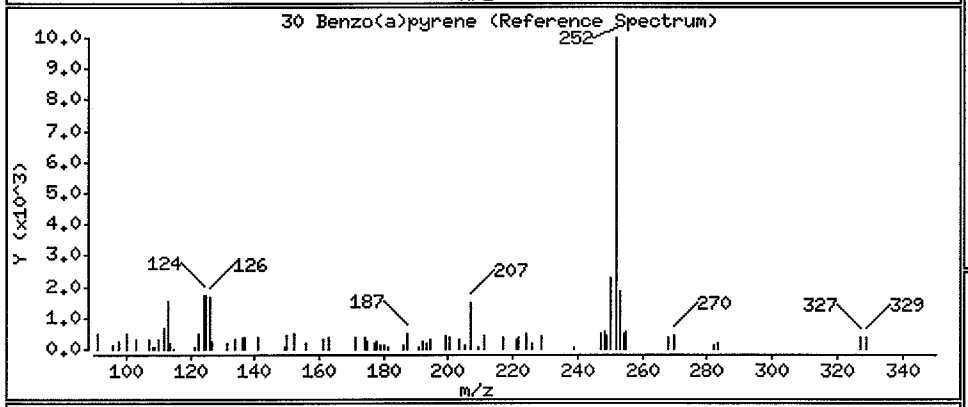
Column diameter: 0.25

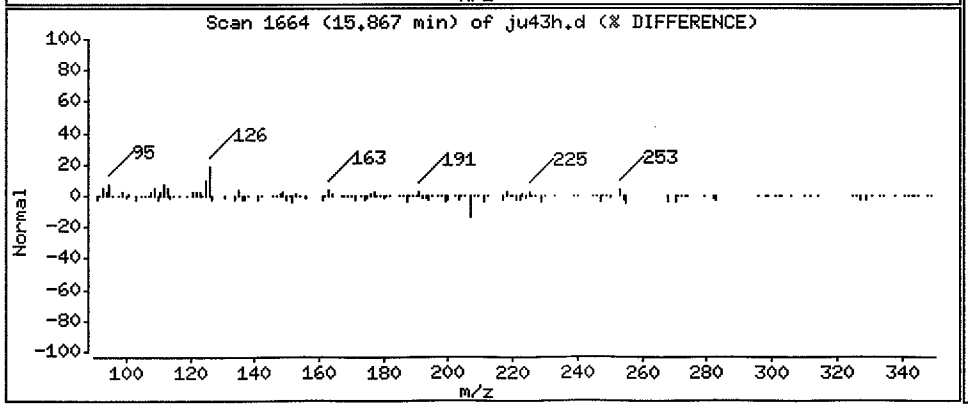
30 Benzo(a)pyrene

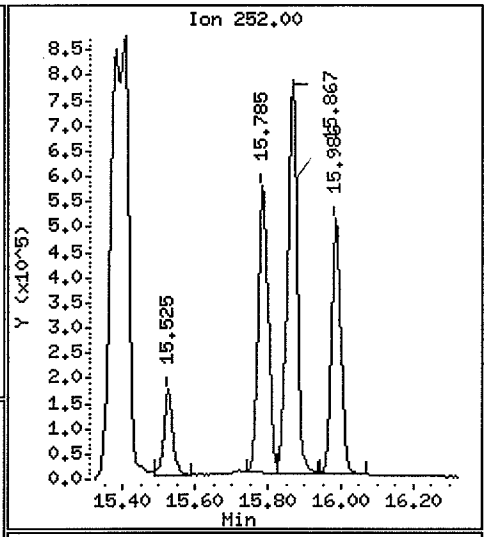
Concentration: 1027 ug/kg

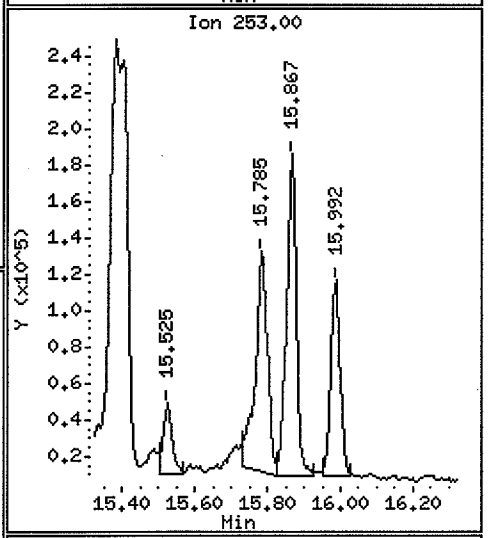


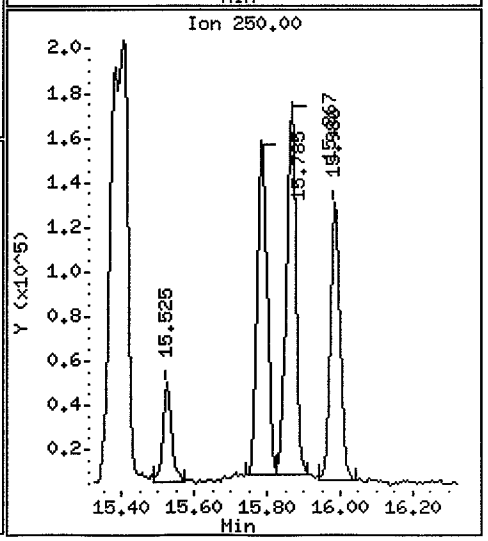












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

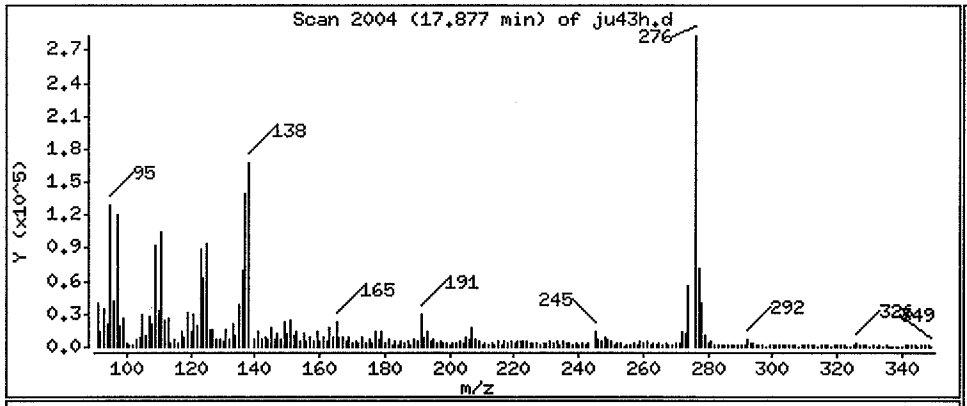
Operator: VTS

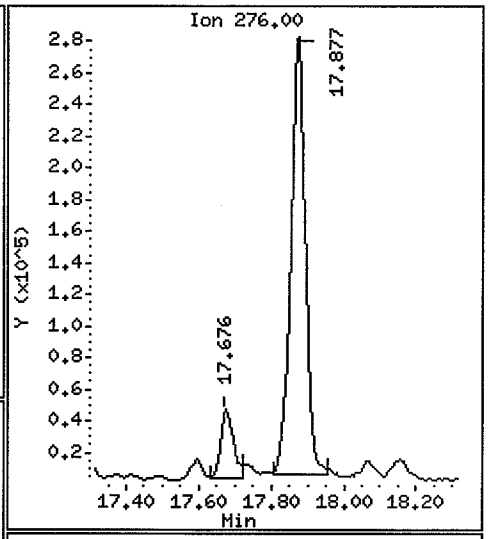
Column phase: ZB-5

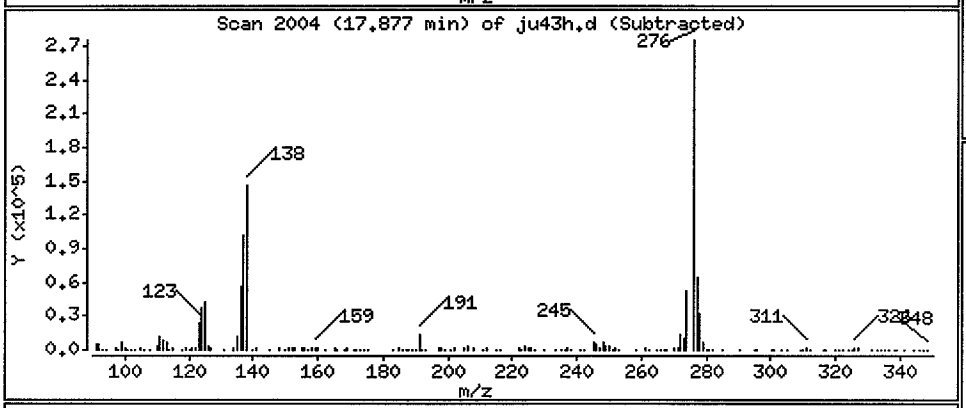
Column diameter: 0.25

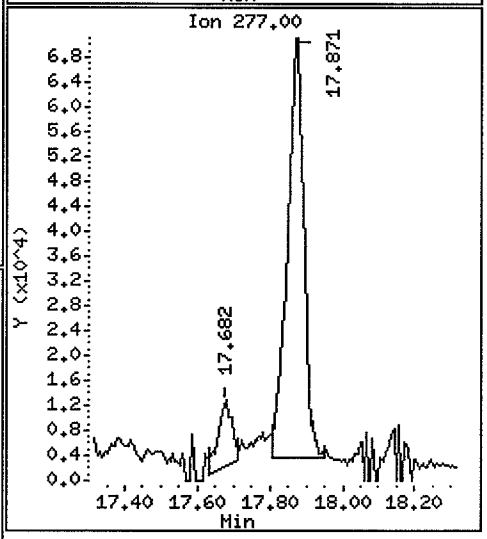
33 Indeno(1,2,3-cd)pyrene

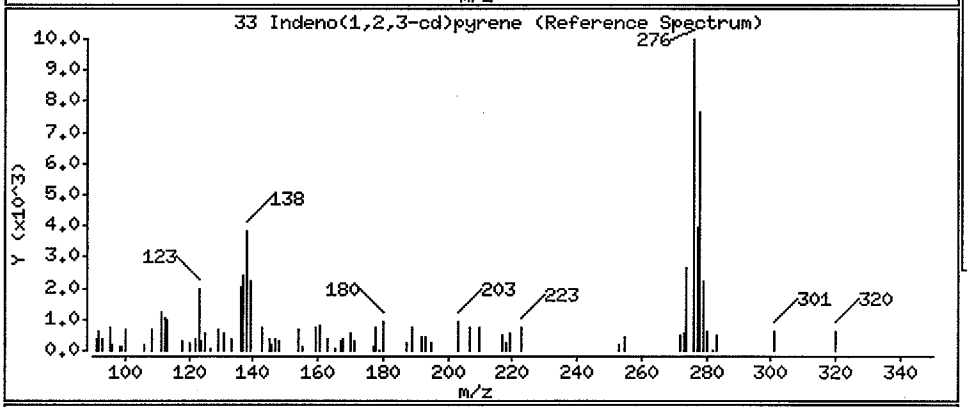
Concentration: 487.2 ug/kg

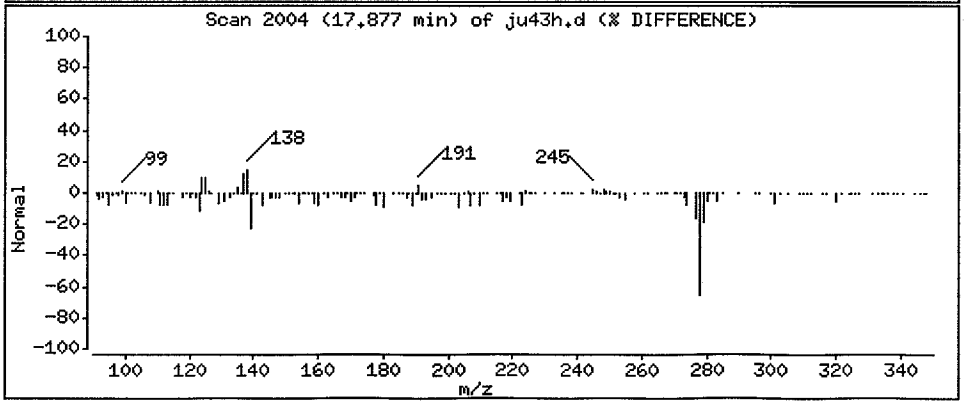












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

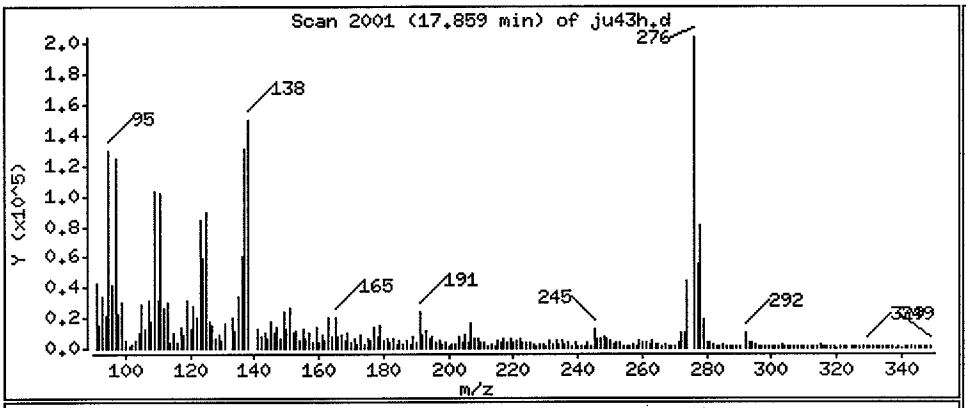
Operator: VTS

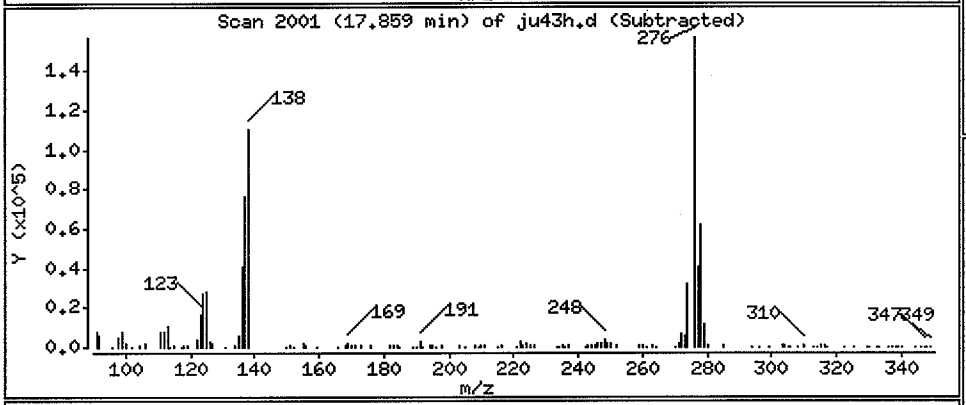
Column phase: ZB-5

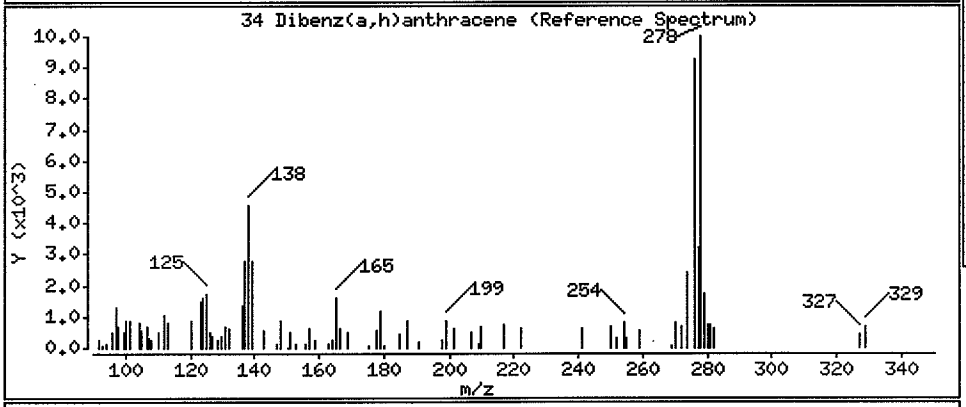
Column diameter: 0.25

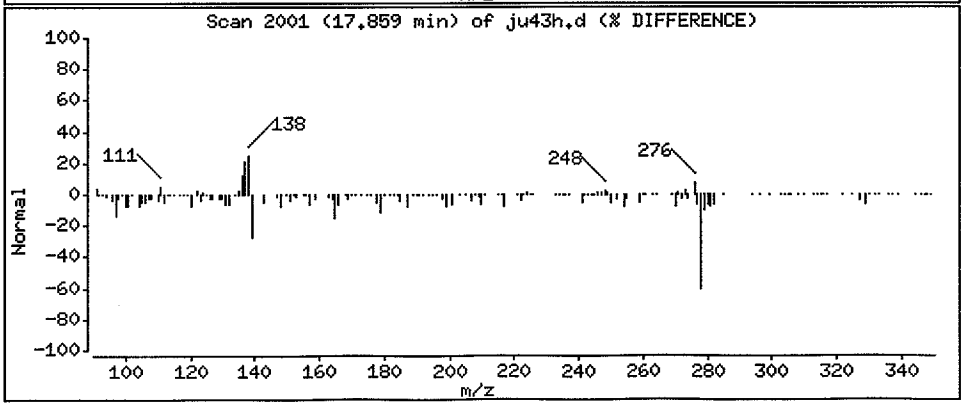
34 Dibenz(a,h)anthracene

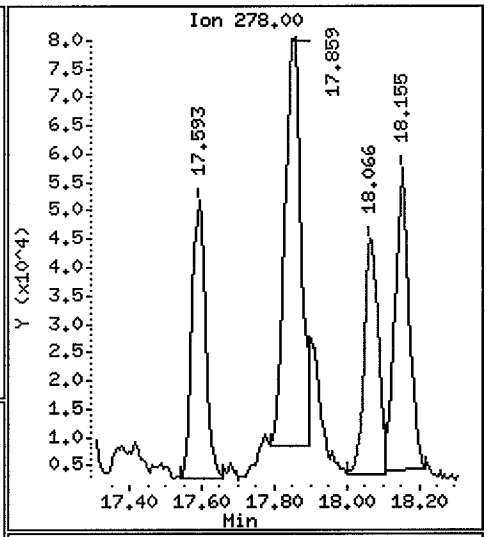
Concentration: 175.9 ug/kg

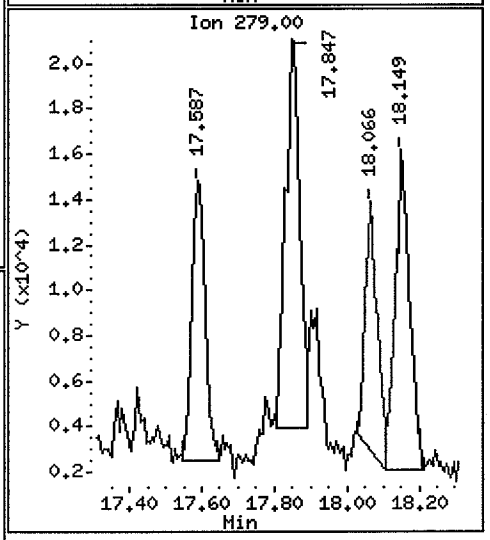












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

Operator: VTS

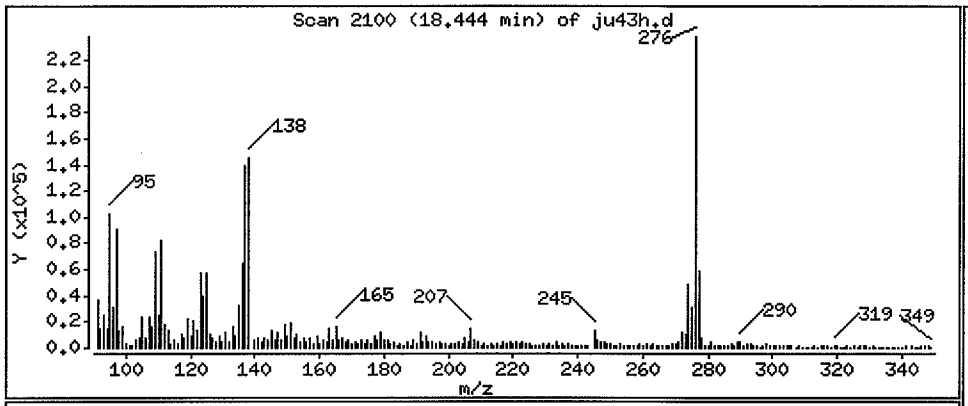
Column phase: ZB-5

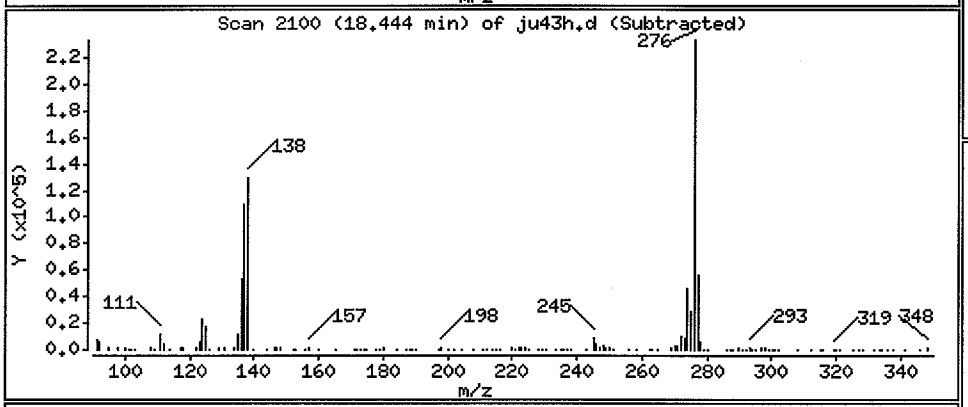
Column diameter: 0.25

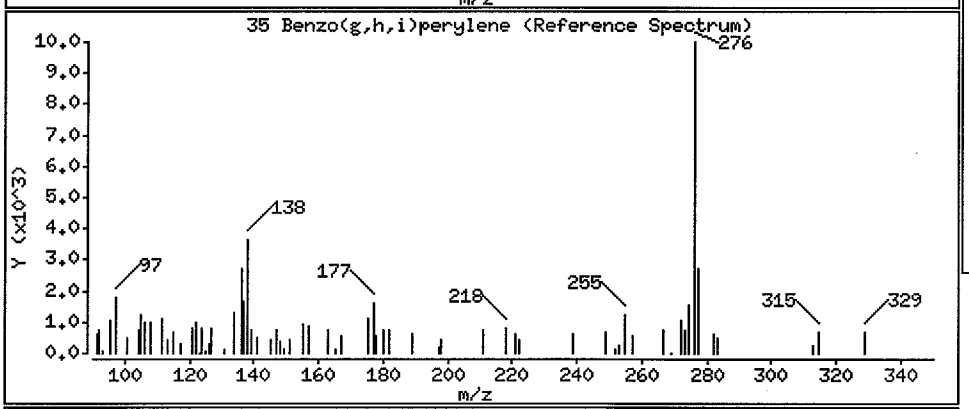
35 Benzo(g,h,i)perylene

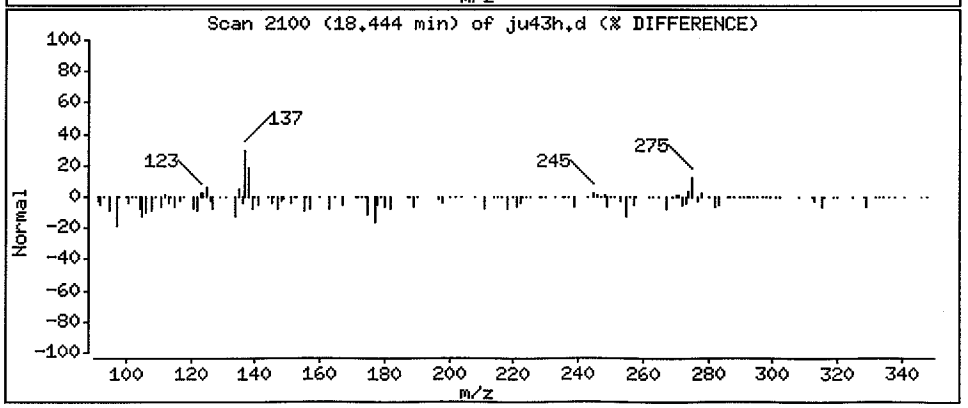
Concentration: 501.0 ug/kg

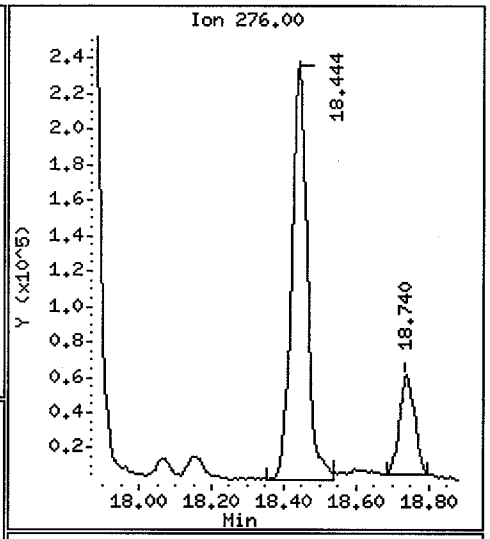
E

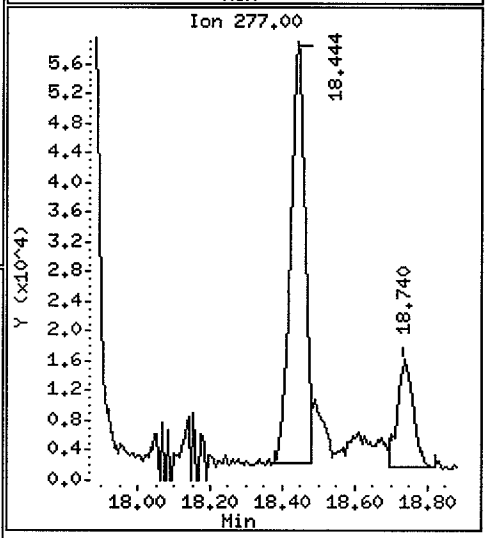












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

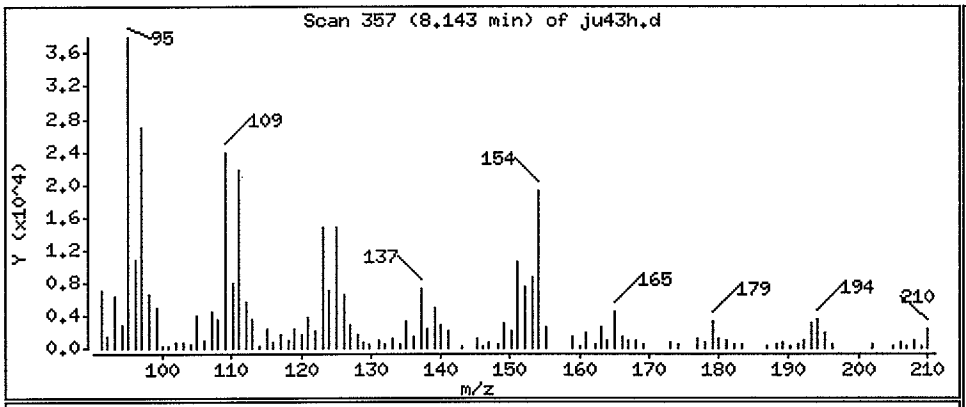
Operator: VTS

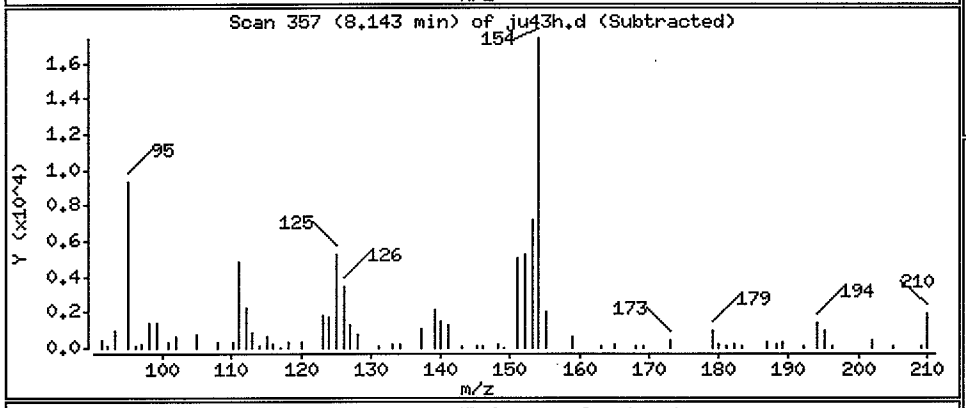
Column phase: ZB-5

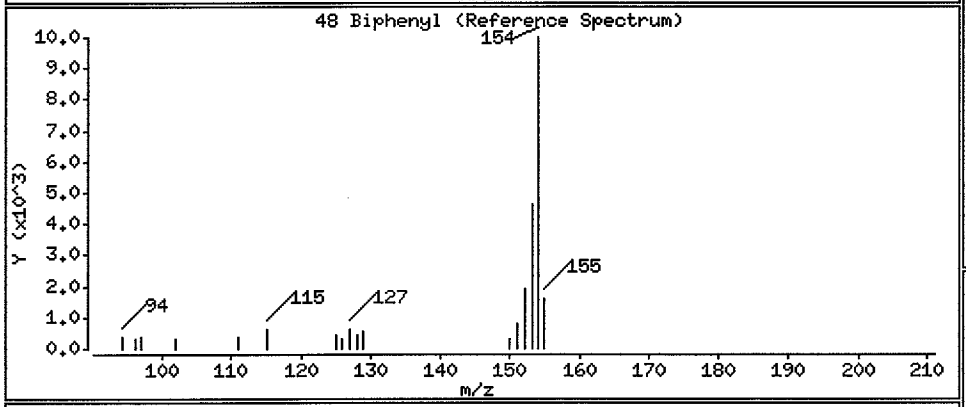
Column diameter: 0.25

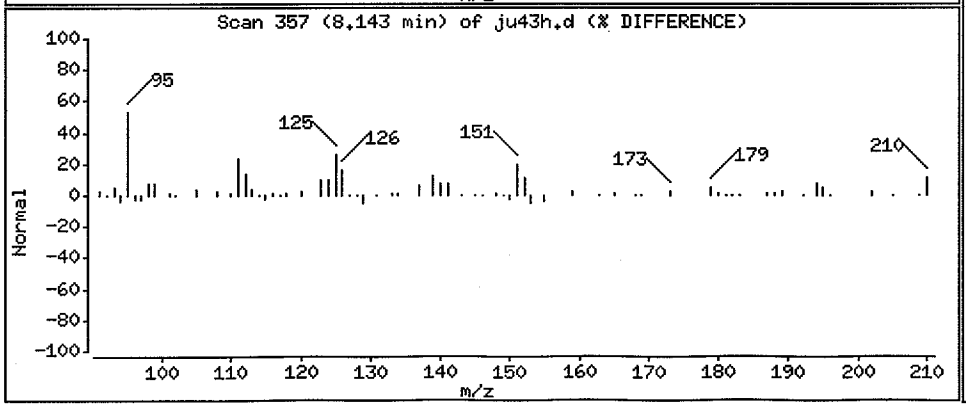
48 Biphenyl

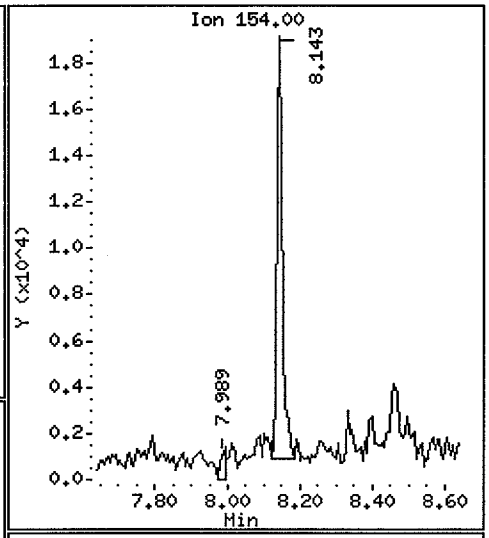
Concentration: 9.398 ug/kg

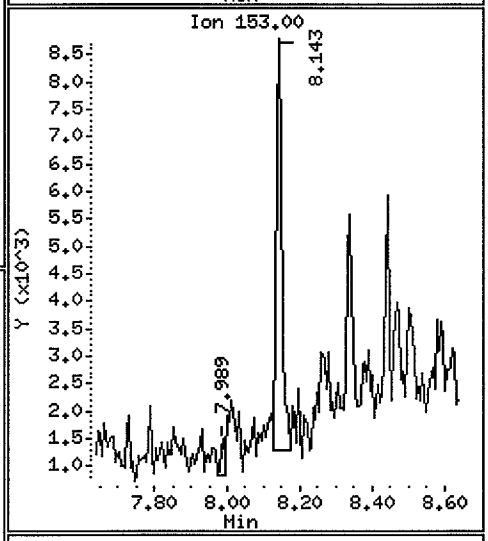


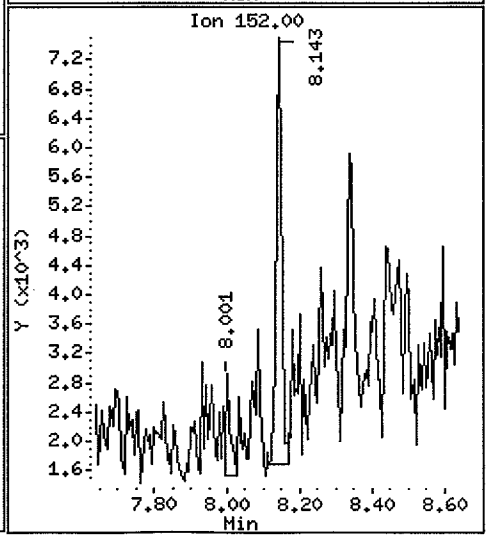












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

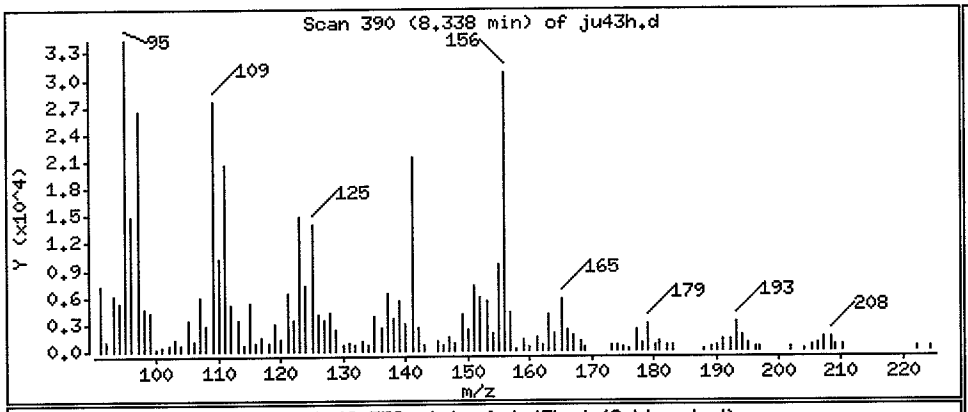
Operator: VTS

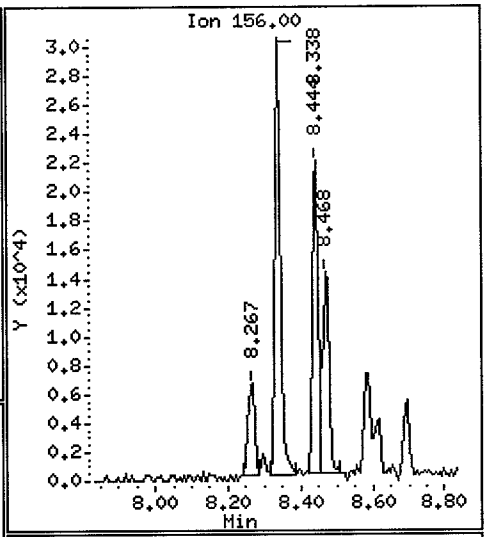
Column phase: ZB-5

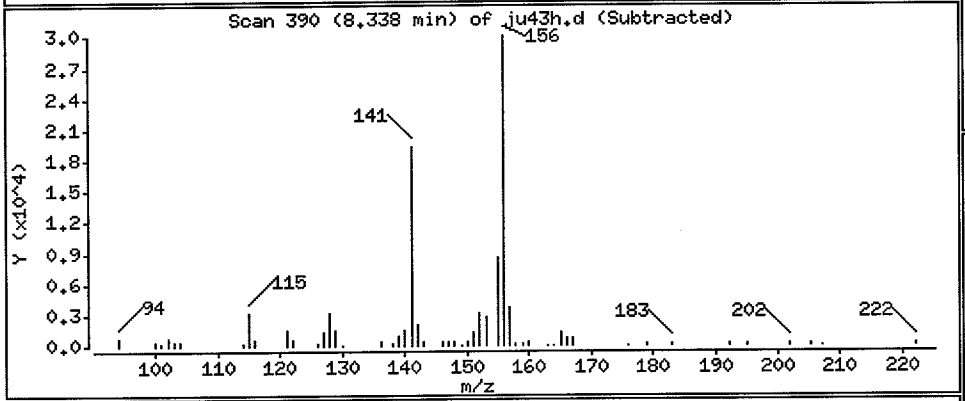
Column diameter: 0.25

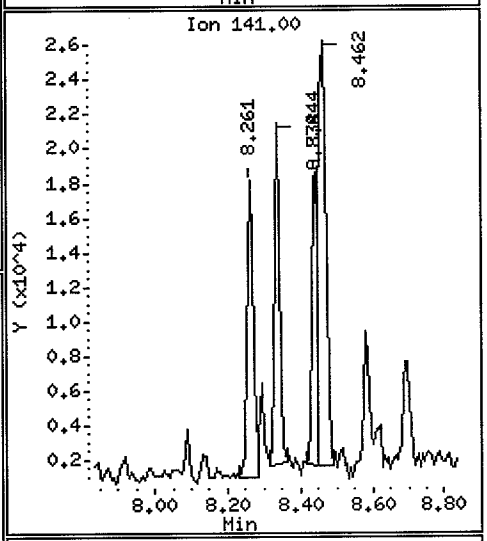
49 2,6-Dimethylnaphthalene

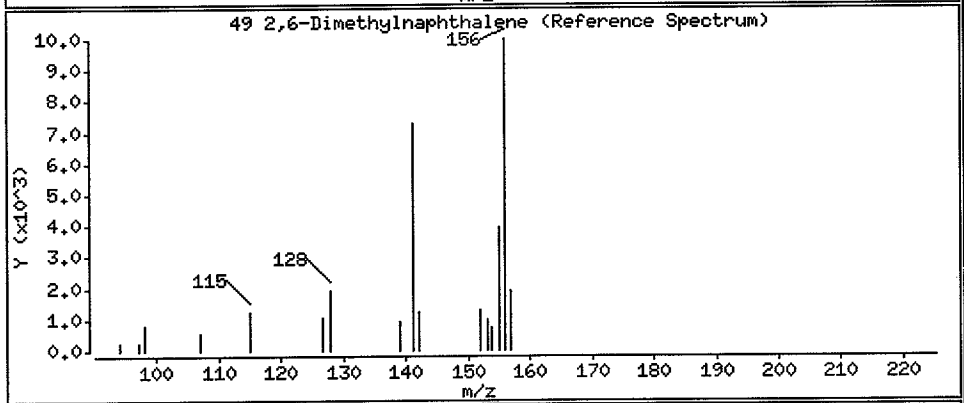
Concentration: 20.58 ug/kg

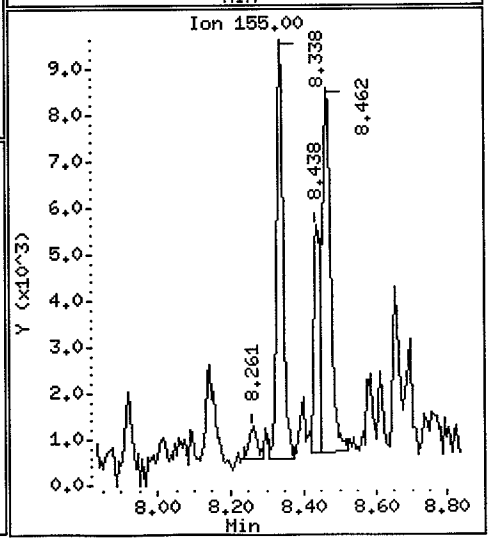


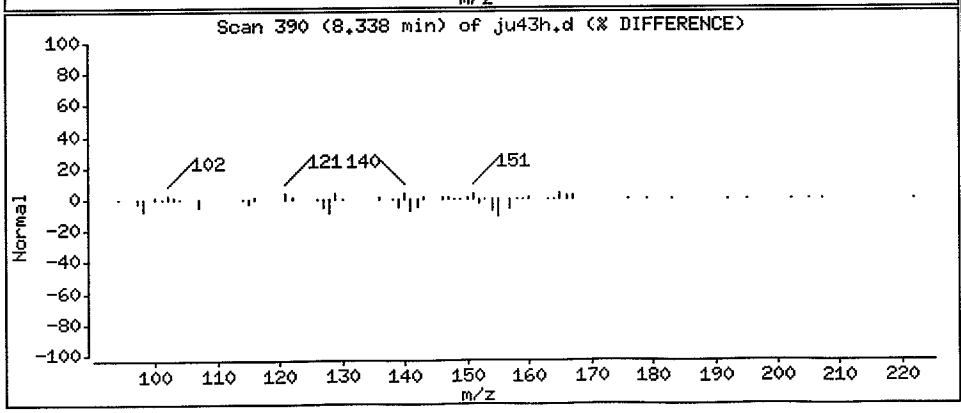












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

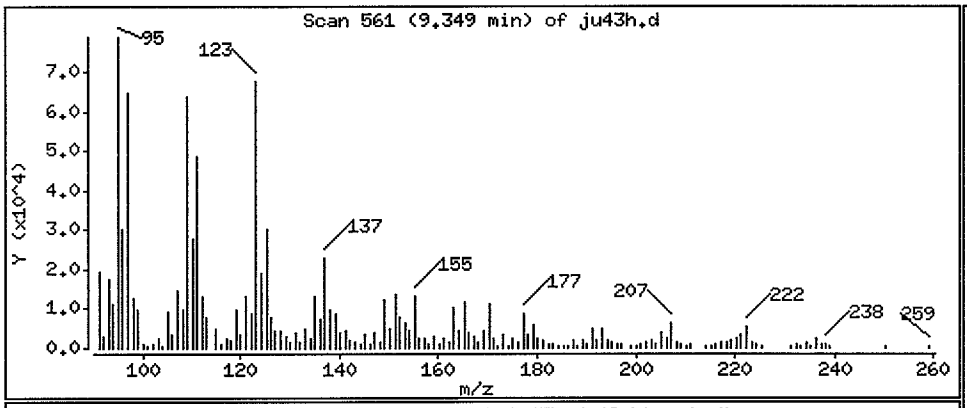
Operator: VTS

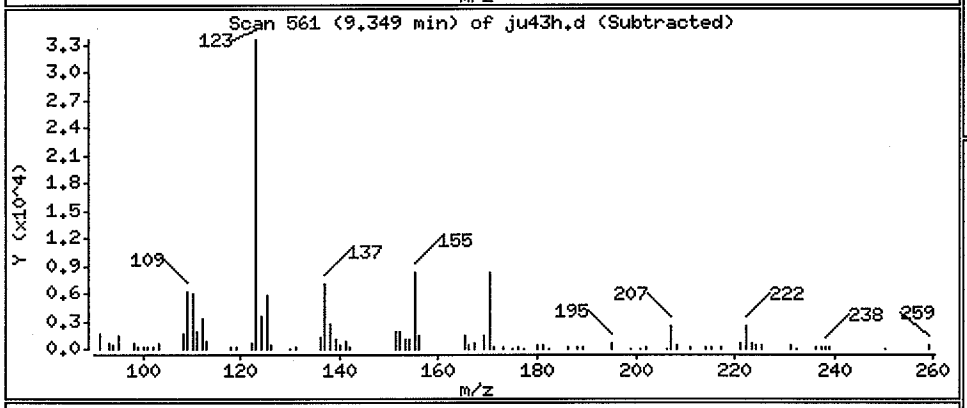
Column phase: ZB-5

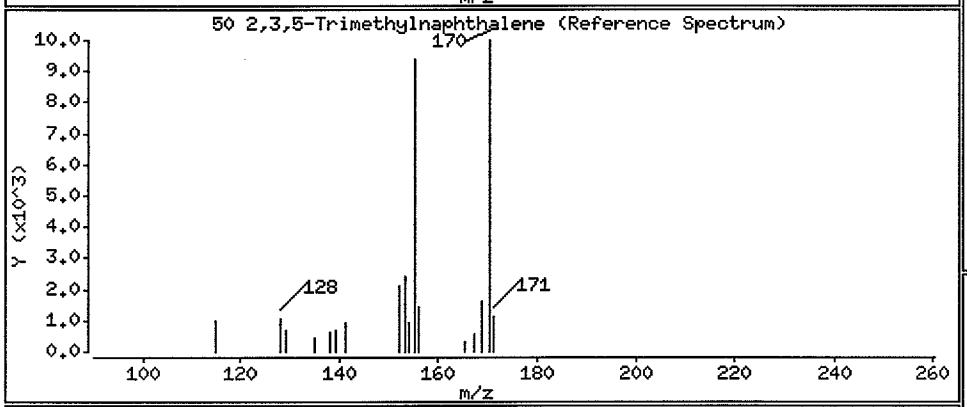
Column diameter: 0.25

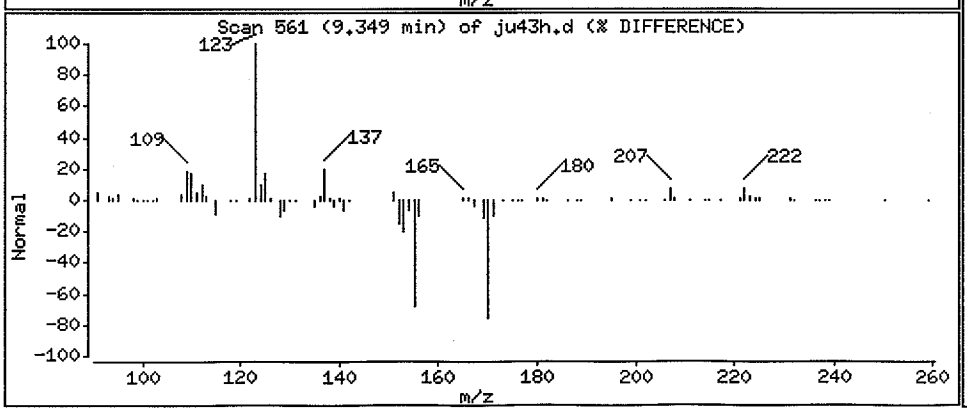
50 2,3,5-Trimethylnaphthalene

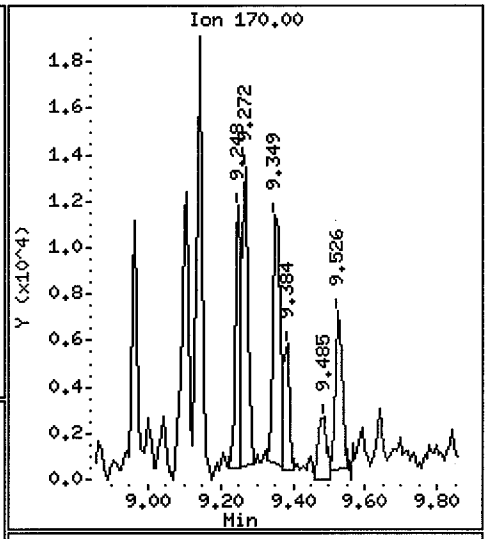
Concentration: 12.92 ug/kg

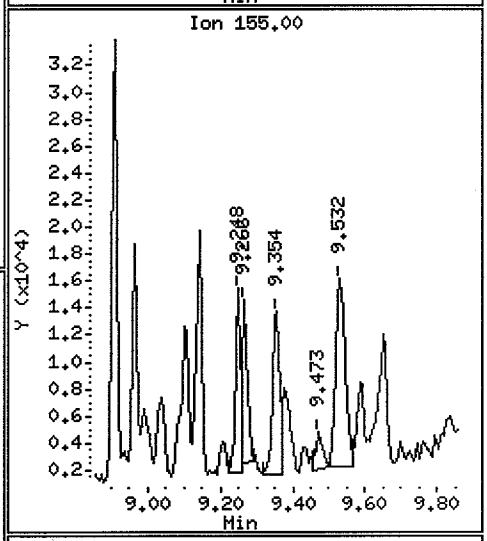


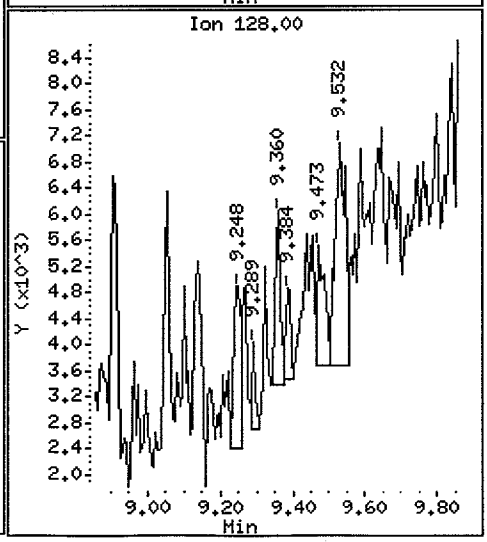












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

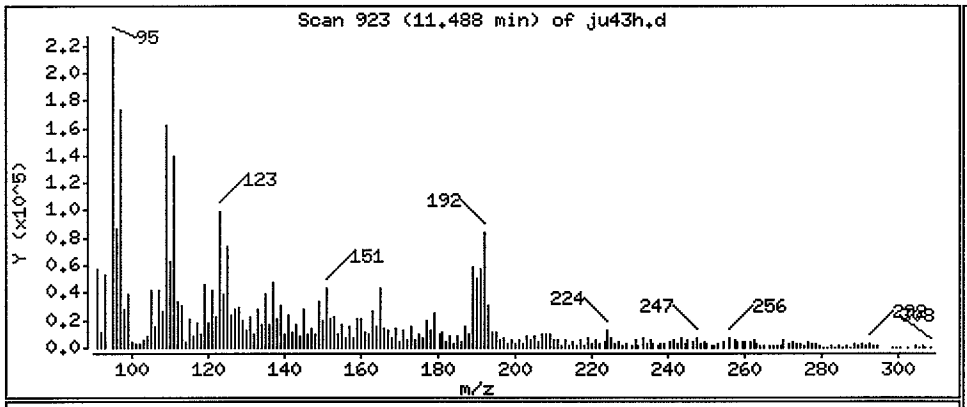
Operator: VTS

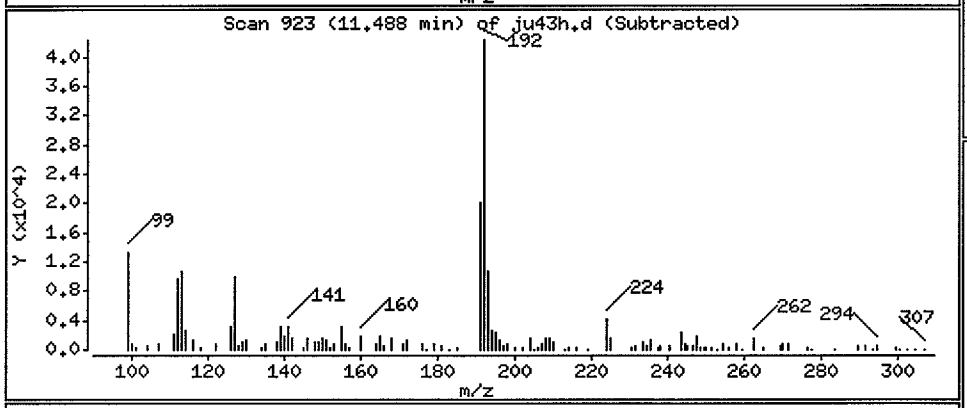
Column phase: ZB-5

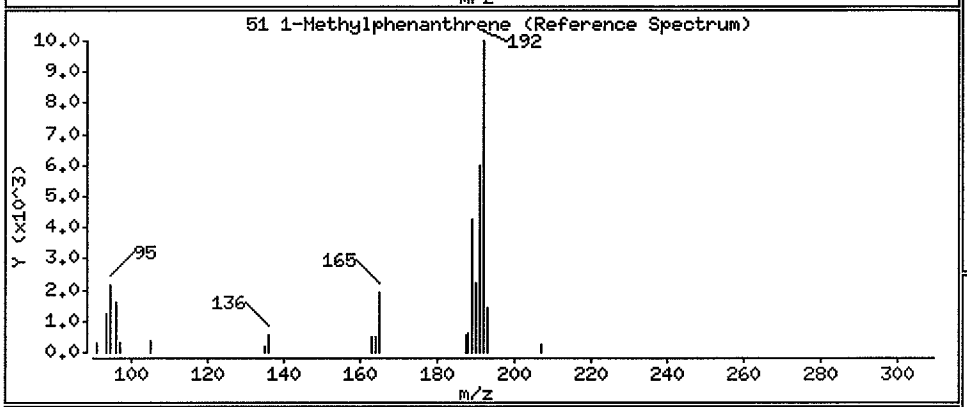
Column diameter: 0.25

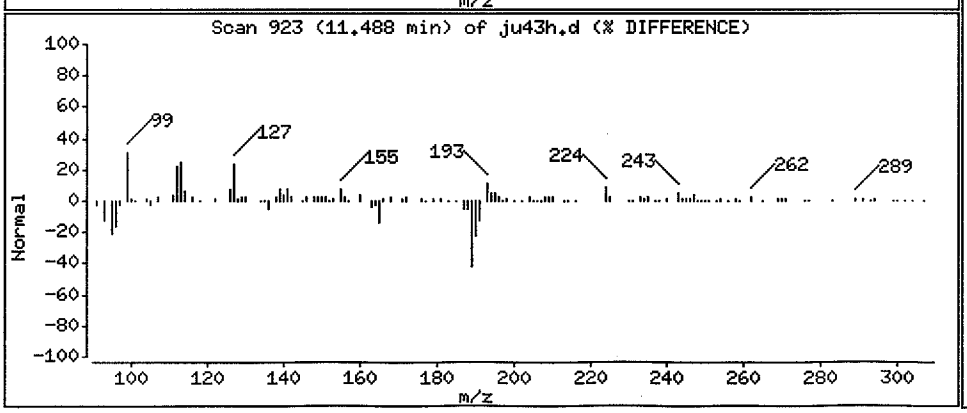
51 1-Methylphenanthrene

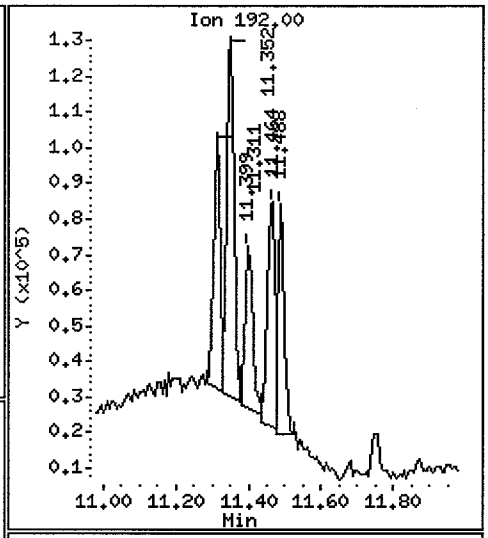
Concentration: 59.73 ug/kg

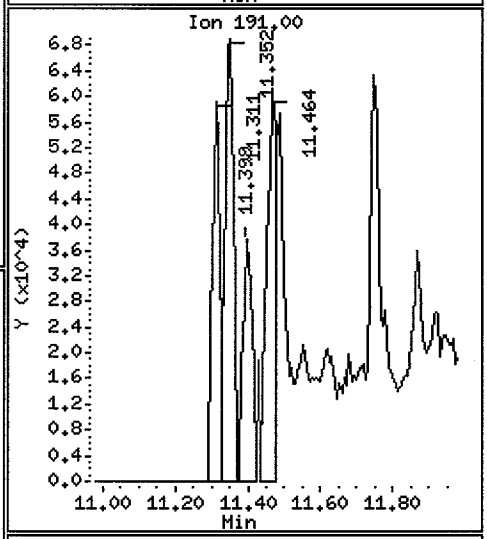


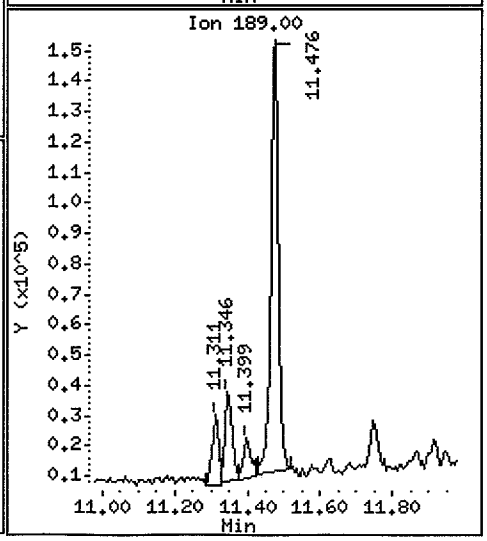












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

Operator: VTS

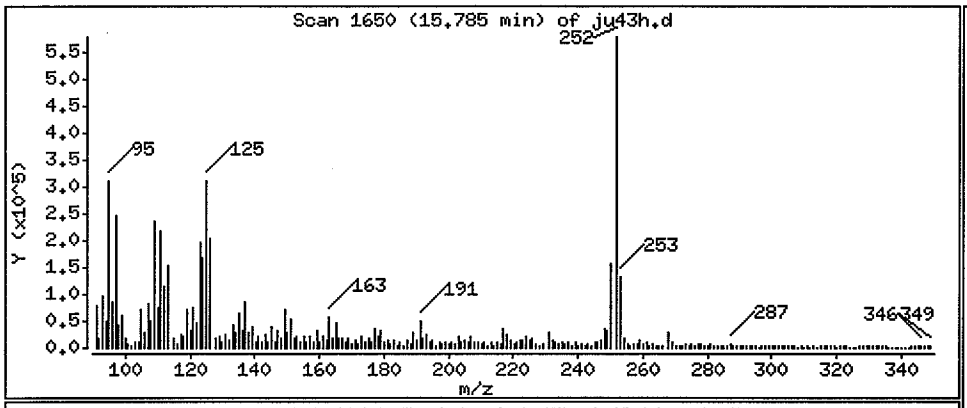
Column phase: ZB-5

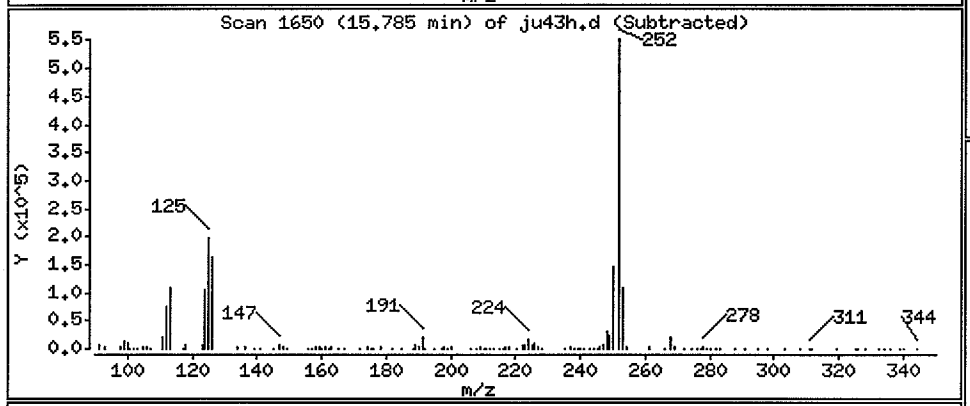
Column diameter: 0.25

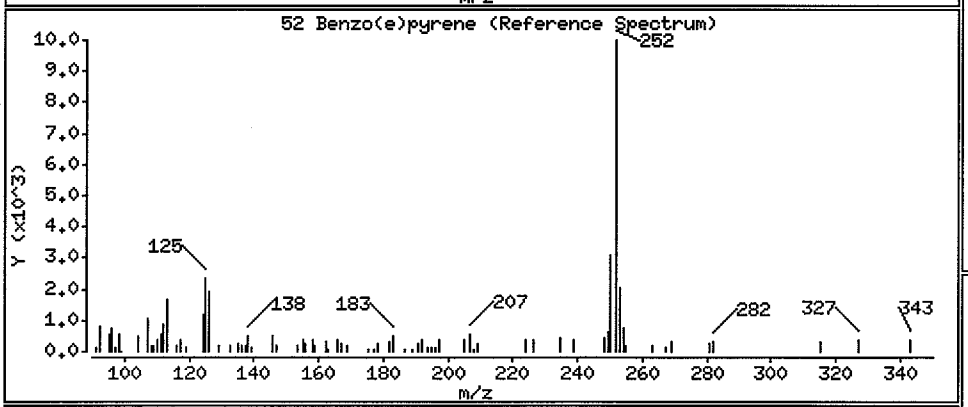
52 Benzo(e)pyrene

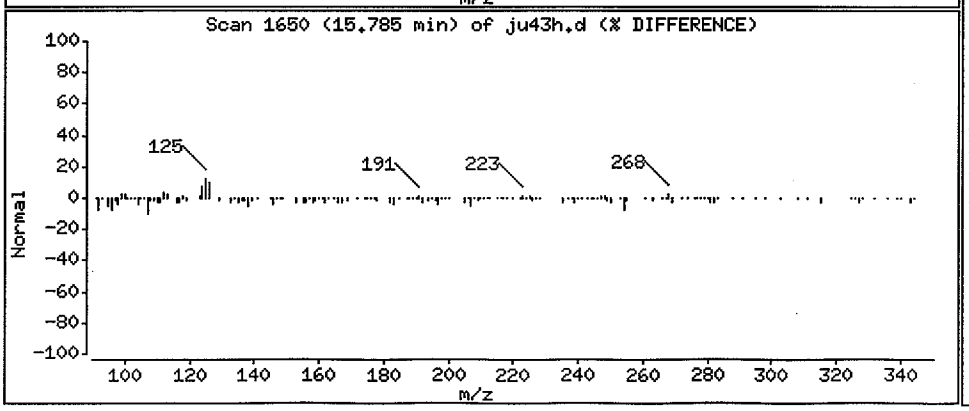
Concentration: 675.1 ug/kg

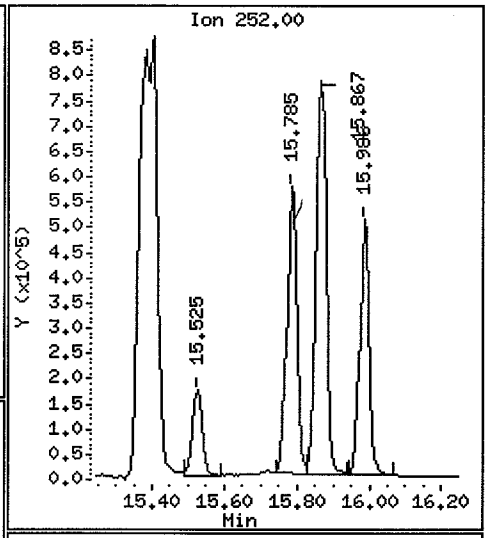
E

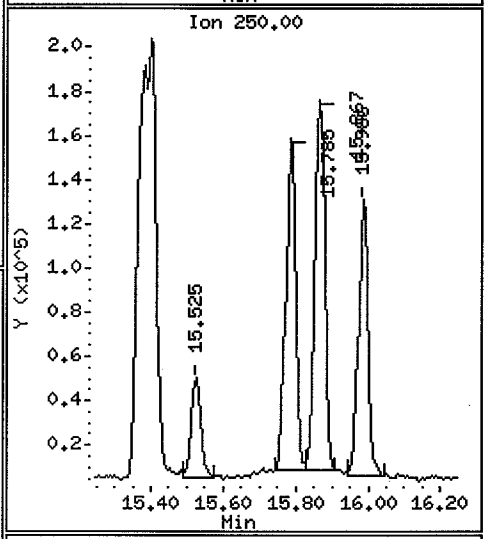


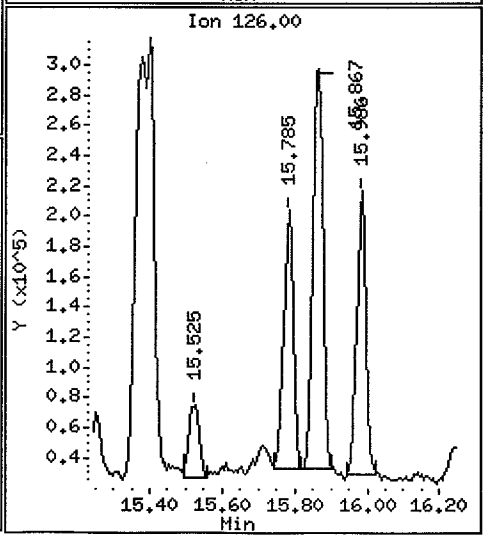












Data File: /chem3/nt1.i/20060912.b/ju43h.d

Date : 12-SEP-2006 16:21

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H

Volume Injected (uL): 1.0

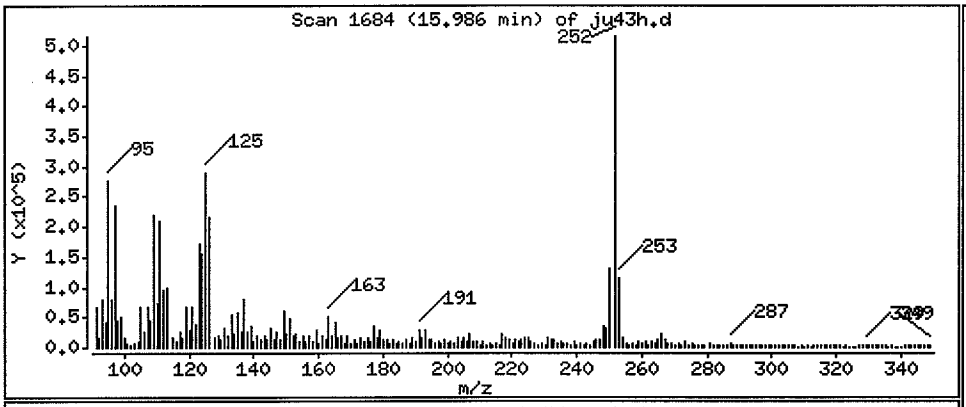
Operator: VTS

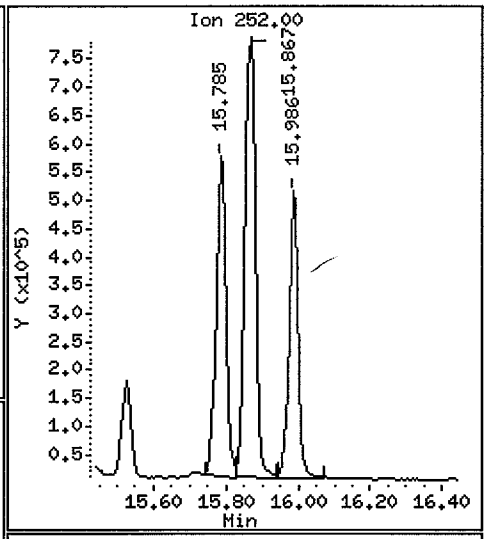
Column phase: ZB-5

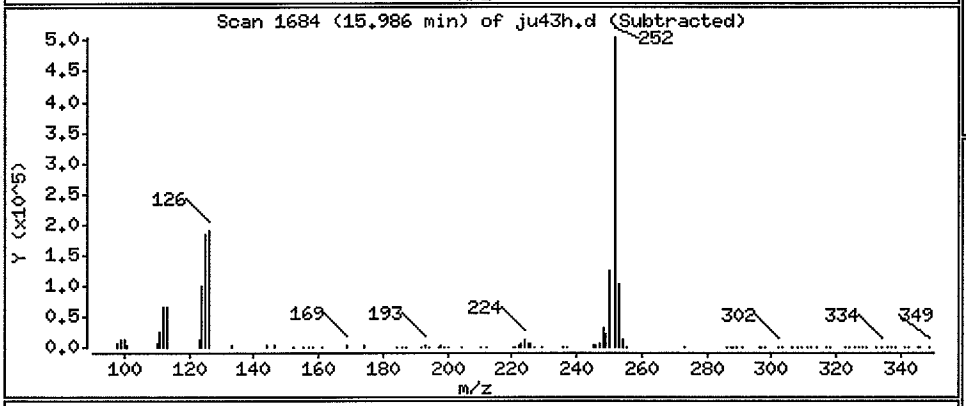
Column diameter: 0.25

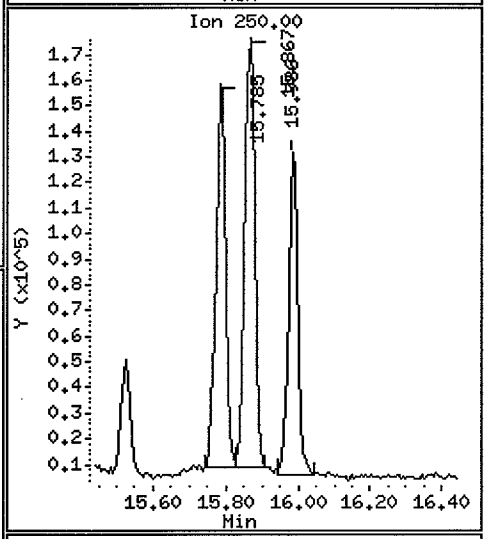
53 Perylene

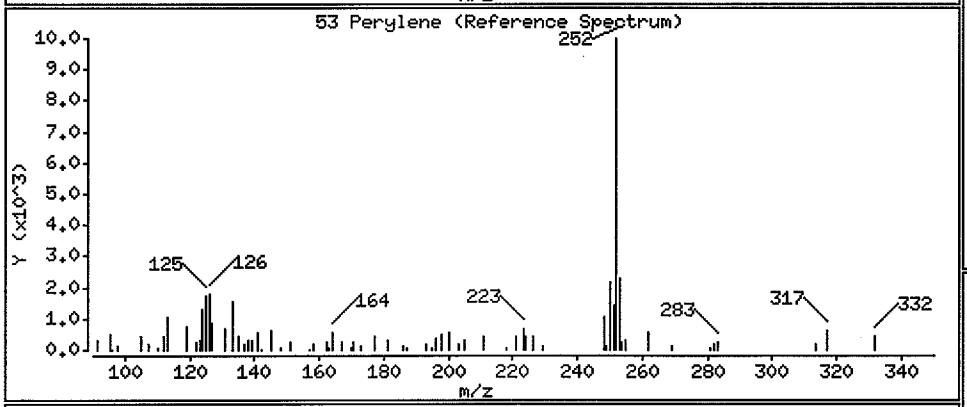
Concentration: 596.7 ug/kg

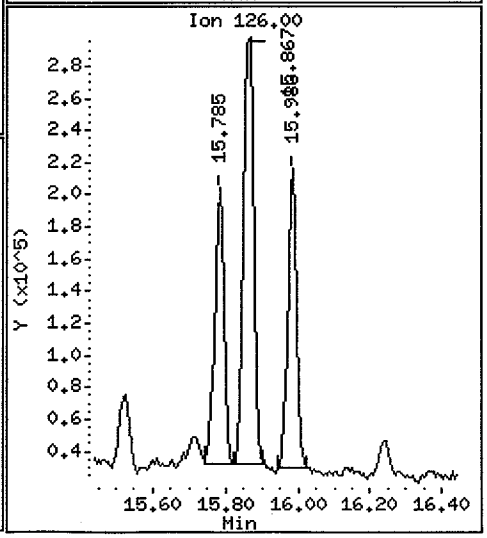


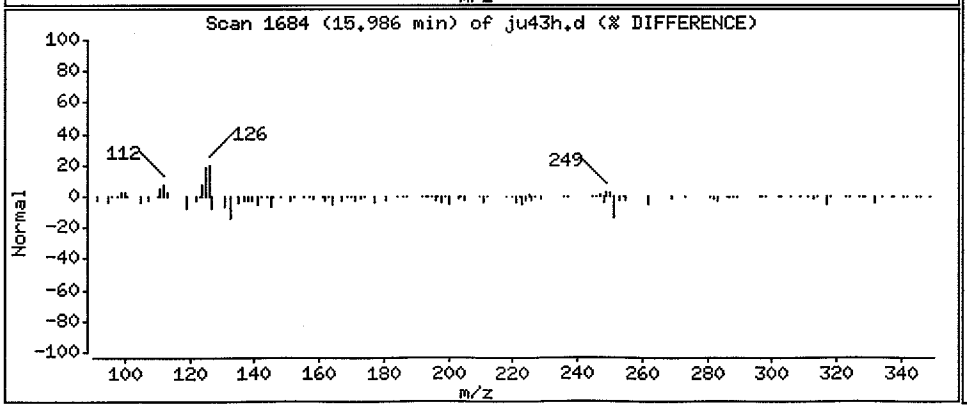












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-B414-04-E
DILUTION

Lab Sample ID: JU43H
LIMS ID: 06-15852
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/14/06 09:02
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 45.5%
pH: 6.7

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	25	82	
91-57-6	2-Methylnaphthalene	25	35	
90-12-0	1-Methylnaphthalene	25	15	J
208-96-8	Acenaphthylene	25	20	J
83-32-9	Acenaphthene	25	140	
86-73-7	Fluorene	25	82	
85-01-8	Phenanthrene	25	650	
120-12-7	Anthracene	25	150	
206-44-0	Fluoranthene	25	1,400	
129-00-0	Pyrene	25	1,200	
56-55-3	Benzo(a)anthracene	25	770	
218-01-9	Chrysene	25	1,000	
205-99-2	Benzo(b)fluoranthene	25	1,100	
207-08-9	Benzo(k)fluoranthene	25	810	
50-32-8	Benzo(a)pyrene	25	1,000	
193-39-5	Indeno(1,2,3-cd)pyrene	25	660	
53-70-3	Dibenz(a,h)anthracene	25	230	
191-24-2	Benzo(g,h,i)perylene	25	800	
198-55-0	Perylene	25	590	
92-52-4	Biphenyl	25	< 25	U
581-42-0	2,6-Dimethylnaphthalene	25	< 25	U
832-69-9	1-Methylphenanthrene	25	52	
192-97-2	Benzo(e)pyrene	25	670	
2245-38-7	2,3,5-Trimethylnaphthalene	25	< 25	U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

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

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060914.b/ju43hdl.d
Lab Smp Id: JU43H Client Smp ID: T4-B414-04-E
Inj Date : 14-SEP-2006 09:02
Operator : VTS Inst ID: nt1.i
Smp Info : JU43H,5
Misc Info : 06-15852
Comment : 1ul Injection
Method : /chem3/nt1.i/20060913.b/simpna.m
Meth Date : 14-Sep-2006 09:42 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 4
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.50000	Weight of sample extracted (g)
M	45.50000	% 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	6.814	6.807	(1.000)	300679	2.00000		
	2 Naphthalene	128	6.837	6.831	(1.003)	48379	0.33490	83.04	
$	3 2-Methylnaphthalene-d10	152	7.564	7.563	(1.110)	40649	0.54520	135.2	
	4 2-Methylnaphthalene	142	7.606	7.599	(1.116)	10797	0.14063	34.87	
	5 1-Methylnaphthalene	142	7.736	7.729	(1.135)	5100	0.06121	15.18	J
	7 Acenaphthylene	152	8.687	8.686	(0.979)	9332	0.07610	18.87	J
*	8 Acenaphthene-d10	164	8.870	8.864	(1.000)	149260	2.00000		
	9 Acenaphthene	153	8.906	8.905	(1.004)	43289	0.58449	144.9	
	10 Dibenzofuran	168	9.095	9.094	(1.025)	16107	~~0.15303~~	37.94	NR
	11 Fluorene	166	9.521	9.514	(1.073)	26771	0.33316	82.61	
*	15 Phenanthrene-d10	188	10.679	10.672	(1.000)	193594	2.00000		
	16 Phenanthrene	178	10.709	10.702	(1.003)	276744	2.63714	653.9	
	17 Anthracene	178	10.762	10.761	(1.008)	63728	0.60212	149.3	
	19 Fluoranthene	202	12.198	12.197	(1.142)	525535	5.86696	1455	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
	20 Pyrene	202	12.487	12.481	(0.893)	542701	4.70572	1167	
	22 Benzo(a)anthracene	228	13.965	13.964	(0.998)	304389	3.09835	768.2	
*	23 Chrysene-d12	240	13.989	13.982	(1.000)	163864	2.00000		
	24 Chrysene	228	14.018	14.017	(1.002)	370846	4.01703	996.0	
	28 Benzo(b)fluoranthene	252	15.342	15.335	(0.964)	423410	4.28326	1062	
	29 Benzo(k)fluoranthene	252	15.366	15.365	(0.966)	338984	3.28344	814.1	
	30 Benzo(a)pyrene	252	15.827	15.814	(0.995)	378568	4.24596	1053	
*	31 Perylene-d12	264	15.909	15.897	(1.000)	174564	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.818	17.806	(1.120)	253337	2.64677	656.3	
$	32 Dibenz(a,h)anthrancene-d14	292	17.742	17.729	(1.115)	31283	0.54686	135.6	
	34 Dibenz(a,h)anthracene	278	17.807	17.794	(1.119)	71173	0.91746	227.5	
	35 Benzo(g,h,i)perylene	276	18.386	18.367	(1.156)	272985	3.22716	800.2	
	48 Biphenyl	154	Compound Not Detected.						
	49 2,6-Dimethylnaphthalene	156	8.339	8.332	(0.940)	4878	0.06977	17.30	J
	50 2,3,5-Trimethylnaphthalene	170	9.349	9.354	(1.054)	2801	0.05071	12.57	J
	51 1-Methylphenanthrene	192	11.477	11.476	(0.820)	16285	0.21055	52.21	
	52 Benzo(e)pyrene	252	15.750	15.737	(0.990)	267048	2.68855	666.6	
	53 Perylene	252	15.945	15.938	(1.002)	222331	2.39883	594.8	

VTS
9-14-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43hdl.d
Lab Smp Id: JU43H
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15852

Calibration Date: 13-SEP-2006
Calibration Time: 10:18
Client Smp ID: T4-B414-04-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	337011	168506	674022	300679	-10.78
8 Acenaphthene-d10	171704	85852	343408	149260	-13.07
15 Phenanthrene-d10	223924	111962	447848	193594	-13.54
23 Chrysene-d12	172575	86288	345150	163864	-5.05
31 Perylene-d12	173129	86564	346258	174564	0.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.10
8 Acenaphthene-d10	8.86	8.36	9.36	8.87	0.08
15 Phenanthrene-d10	10.67	10.17	11.17	10.68	0.06
23 Chrysene-d12	13.98	13.48	14.48	13.99	0.05
31 Perylene-d12	15.90	15.40	16.40	15.91	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

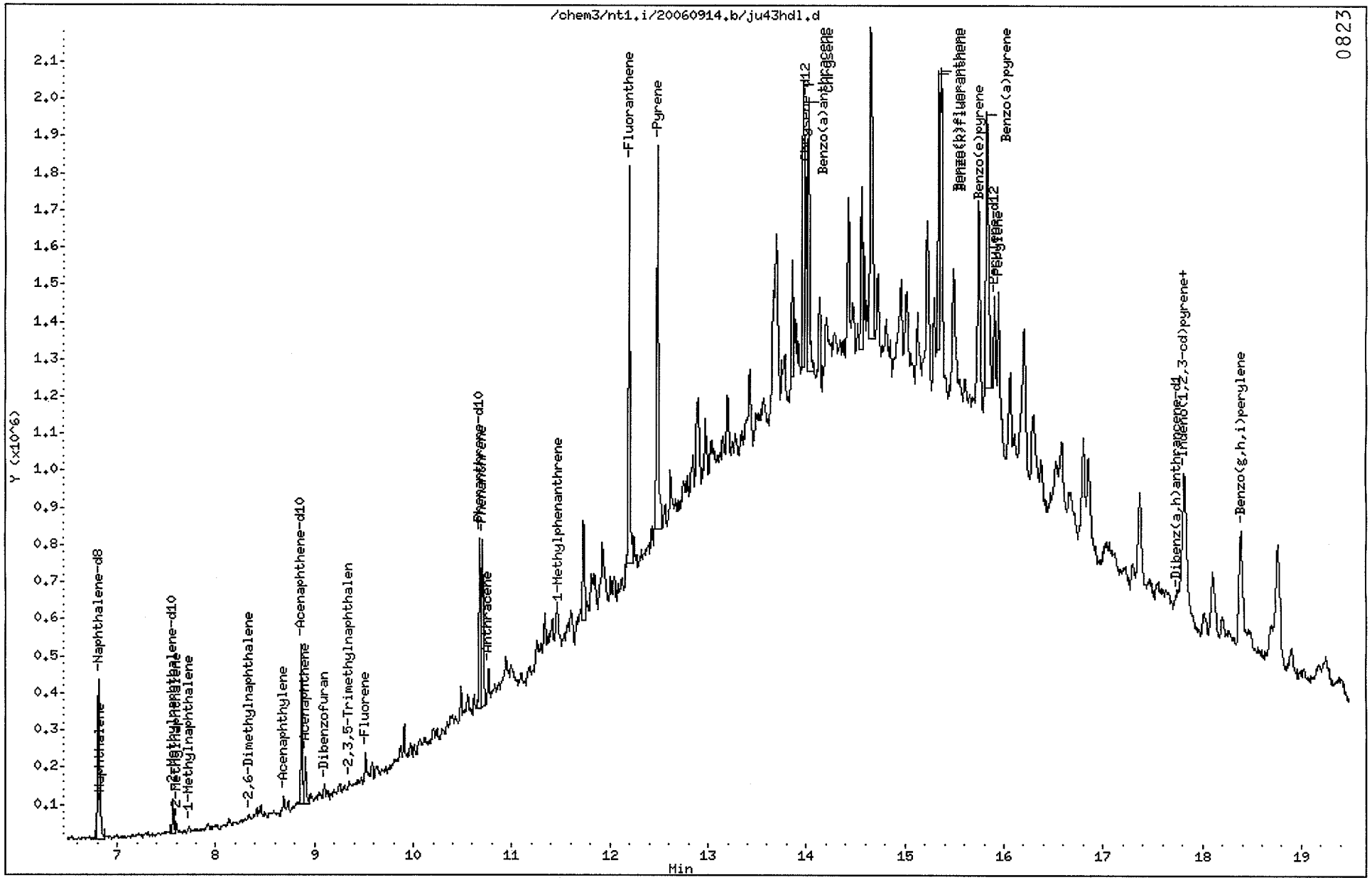
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43H
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15852

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-04-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.8	135.2	90.87	32-97
$ 32 Dibenz(a,h)anthran	148.8	135.6	91.14	21-105

Data File: /chem3/nt1.i/20060914.b/ju43hdl.d
Date : 14-SEP-2006 09:02
Client ID: T4-B414-04-E
Sample Info: JU43H,5
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

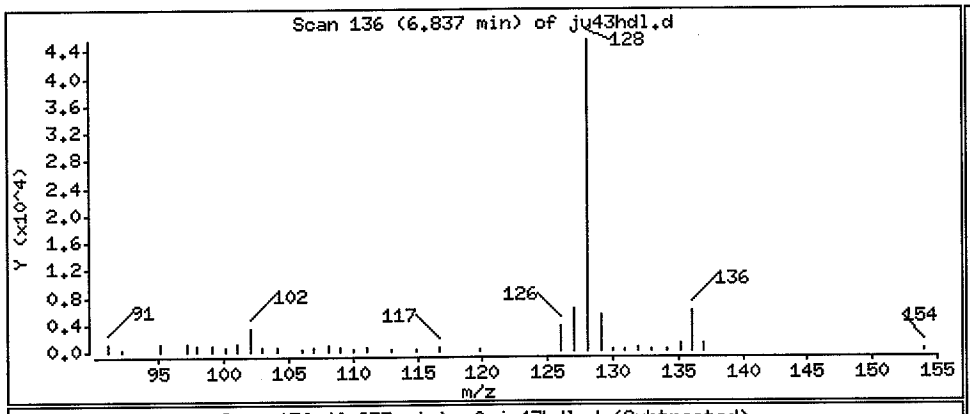
Operator: VTS

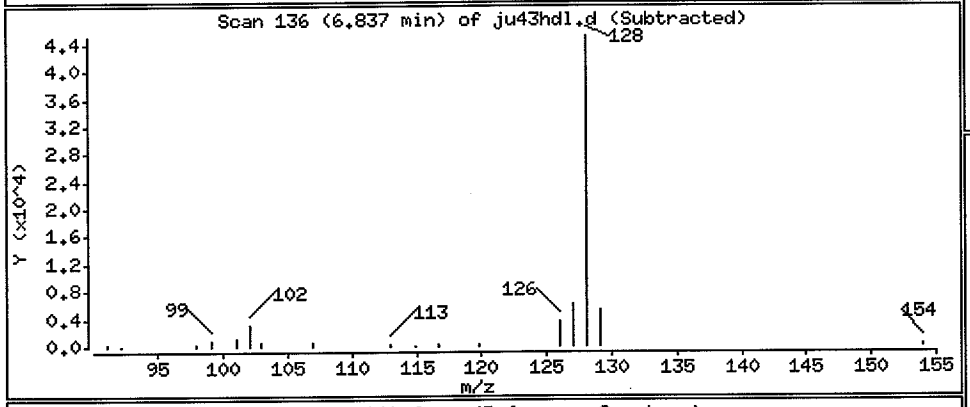
Column phase: ZB-5

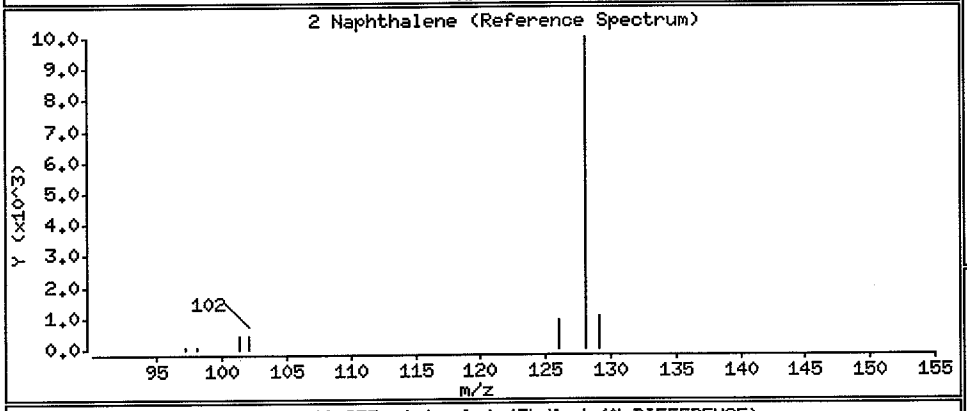
Column diameter: 0.25

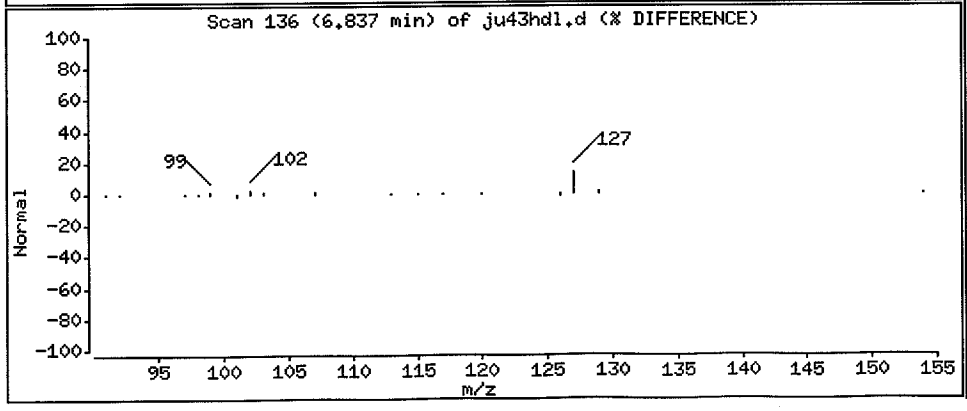
2 Naphthalene

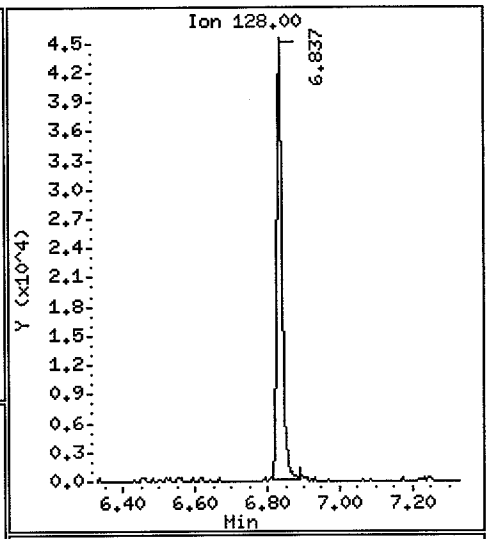
Concentration: 83.04 ug/kg

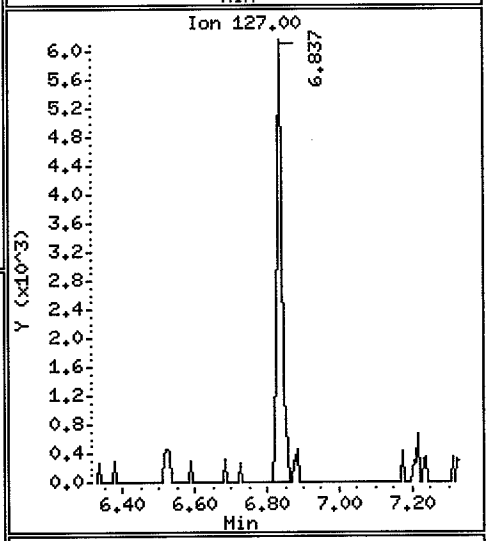


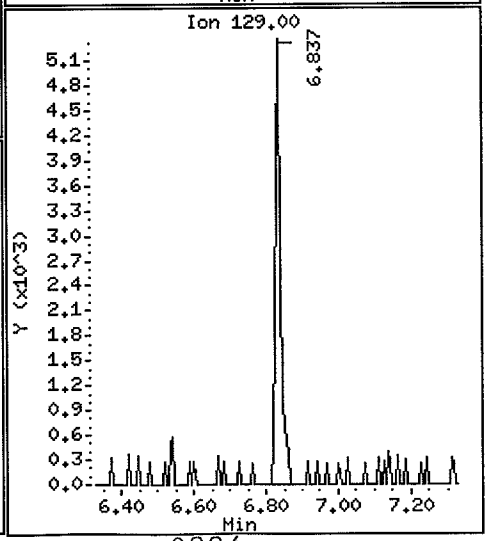












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

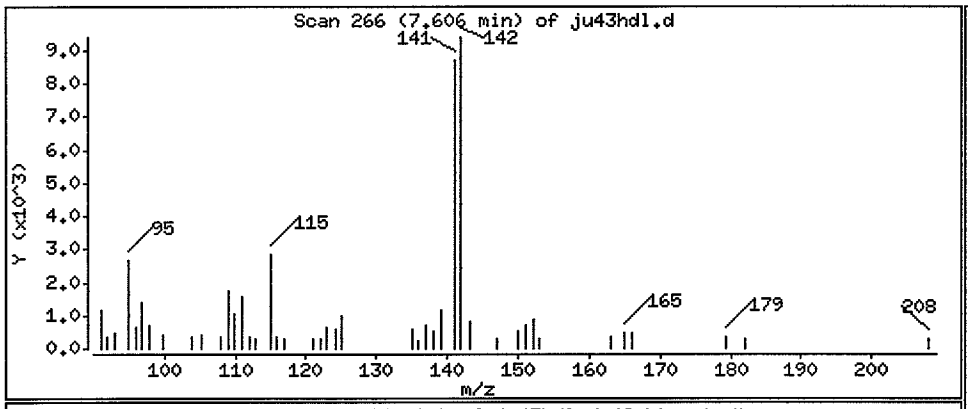
Operator: VTS

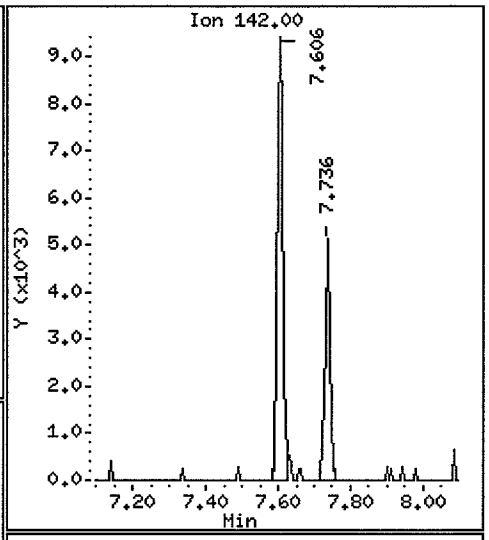
Column phase: ZB-5

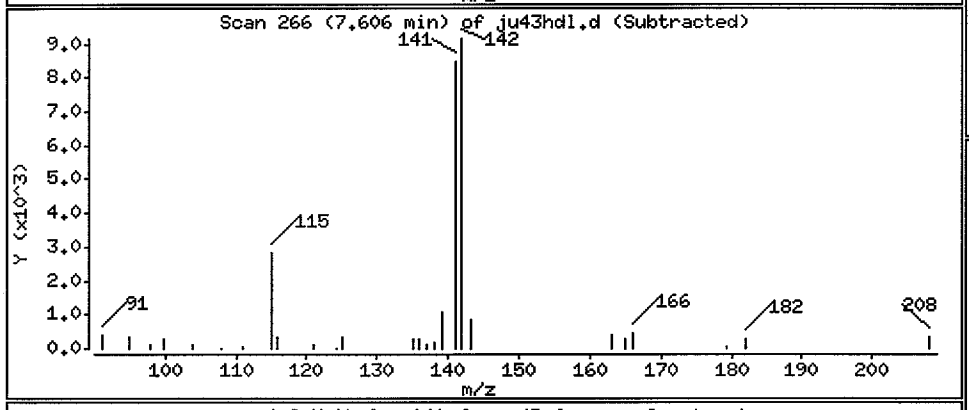
Column diameter: 0.25

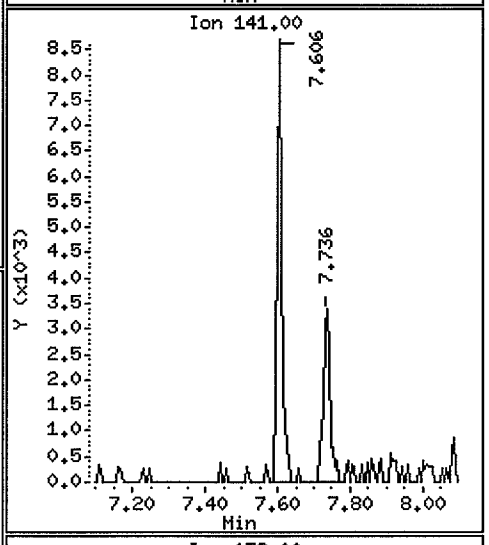
4 2-Methylnaphthalene

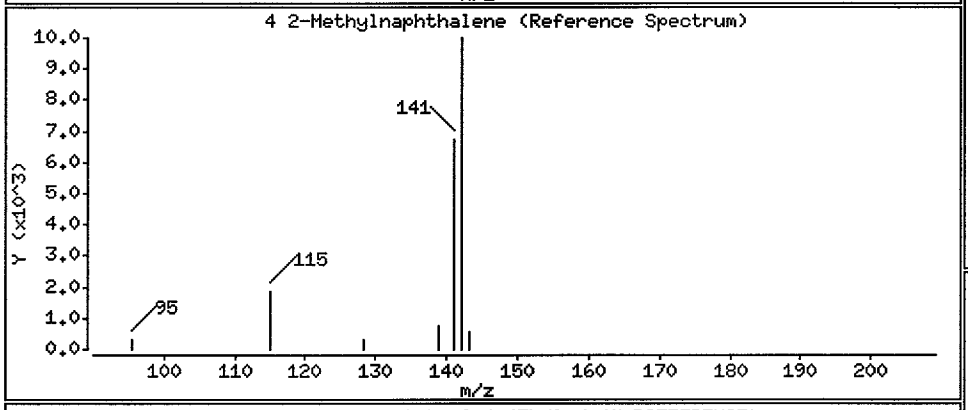
Concentration: 34.87 ug/kg

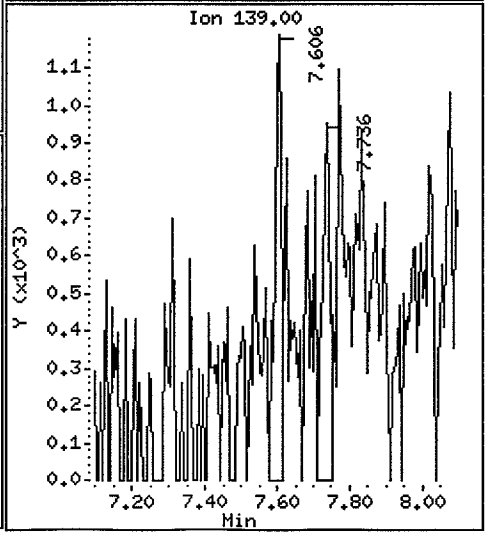


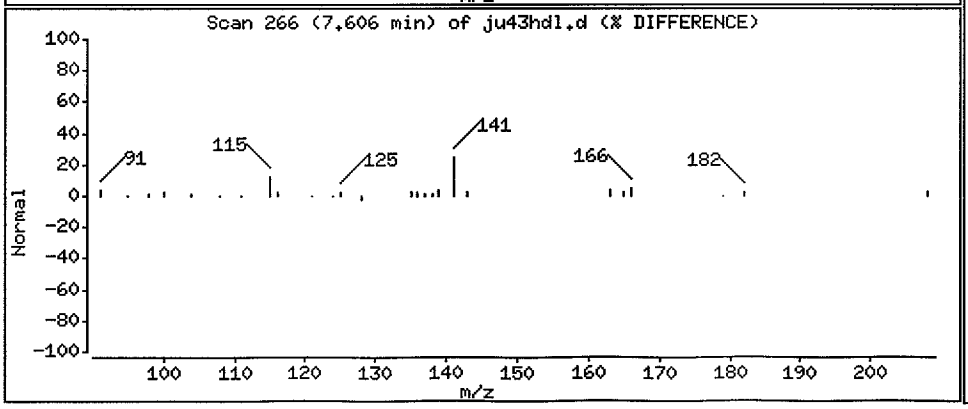












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

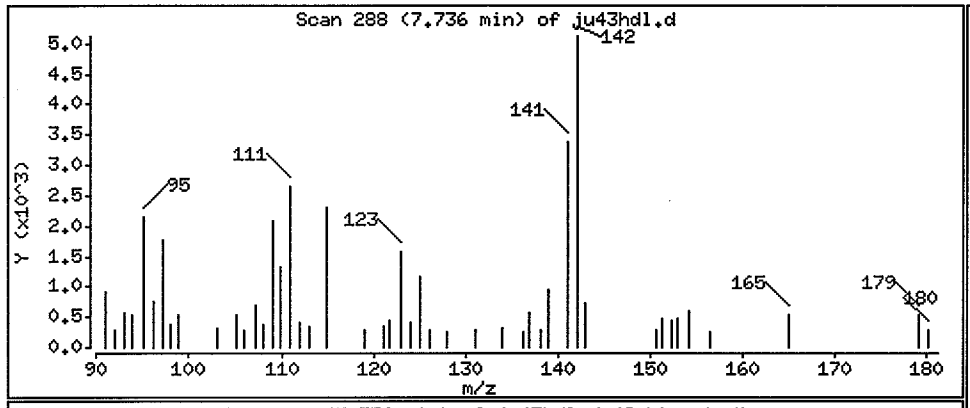
Operator: VTS

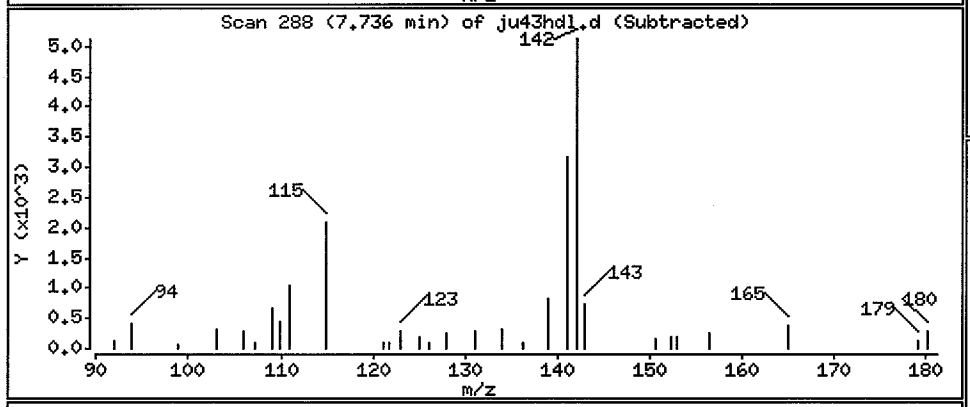
Column phase: ZB-5

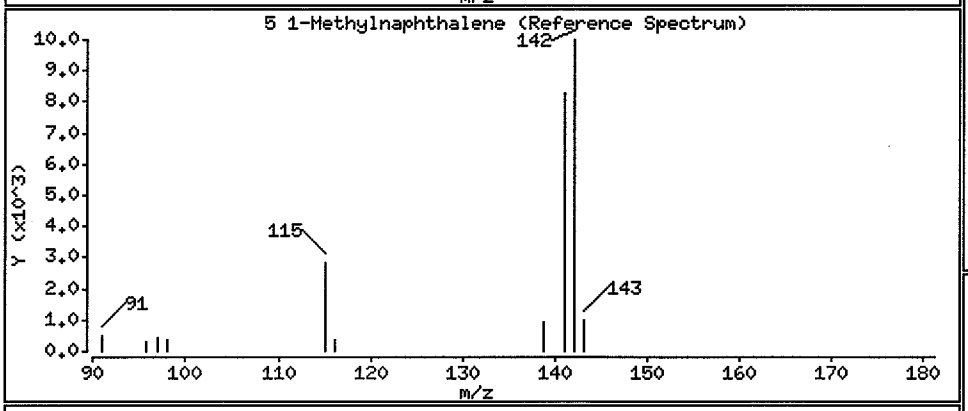
Column diameter: 0.25

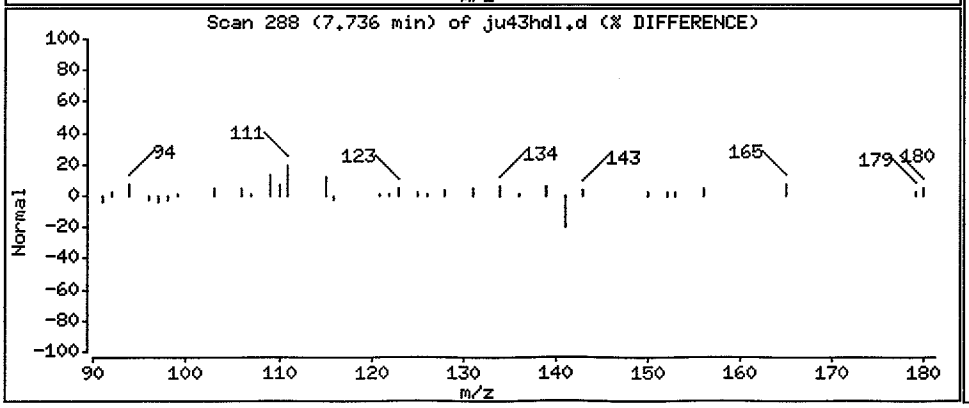
5 1-Methylnaphthalene

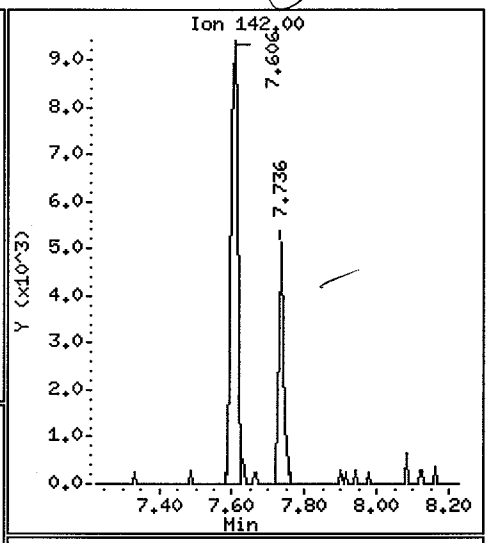
Concentration: 15.18 ug/kg

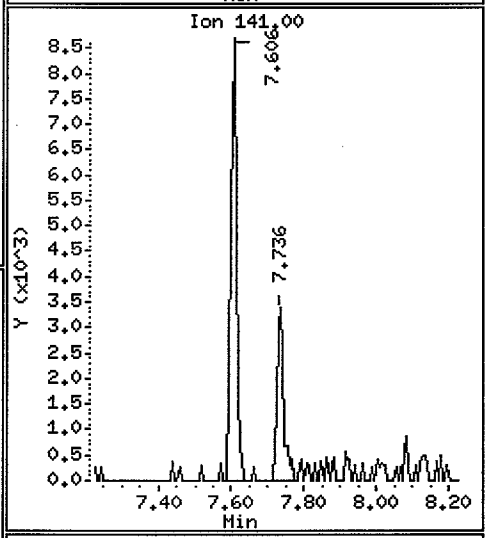


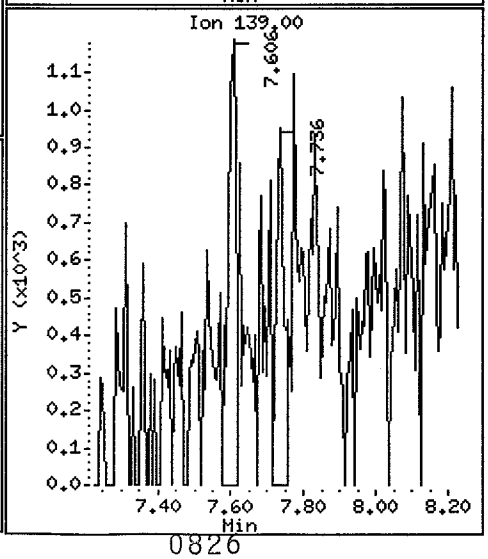












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

Operator: VTS

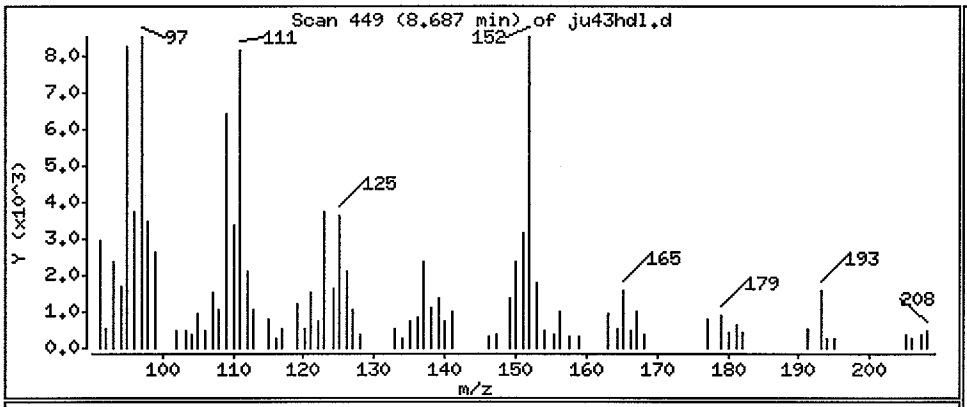
Column phase: ZB-5

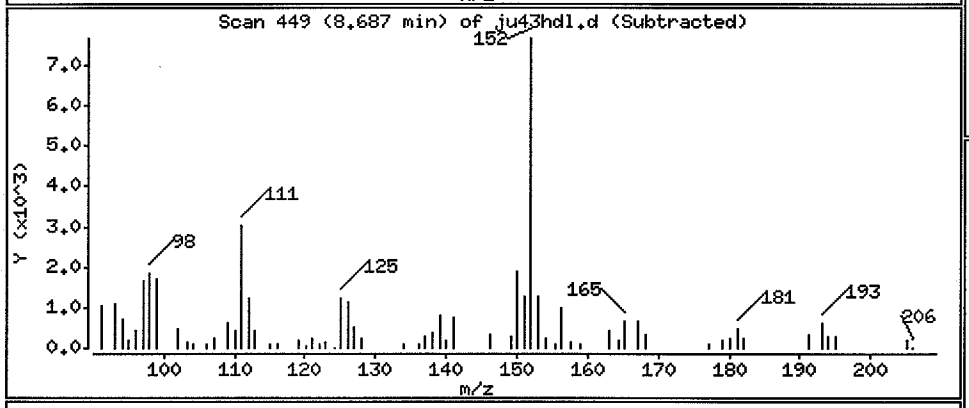
Column diameter: 0.25

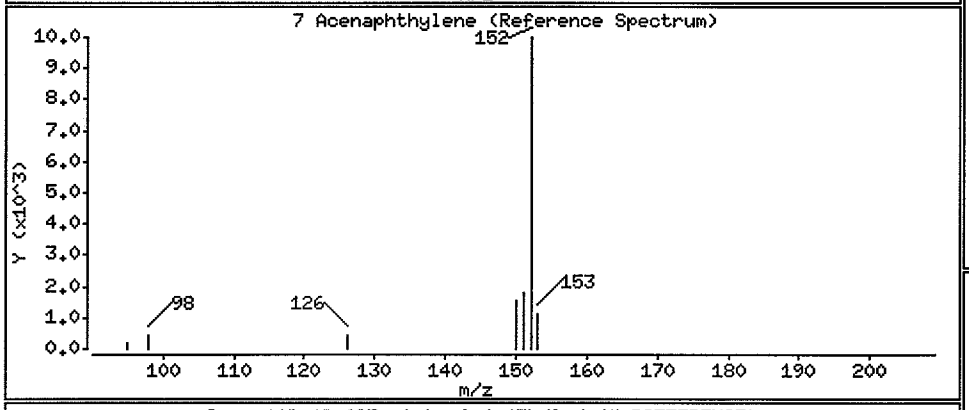
7 Acenaphthylene

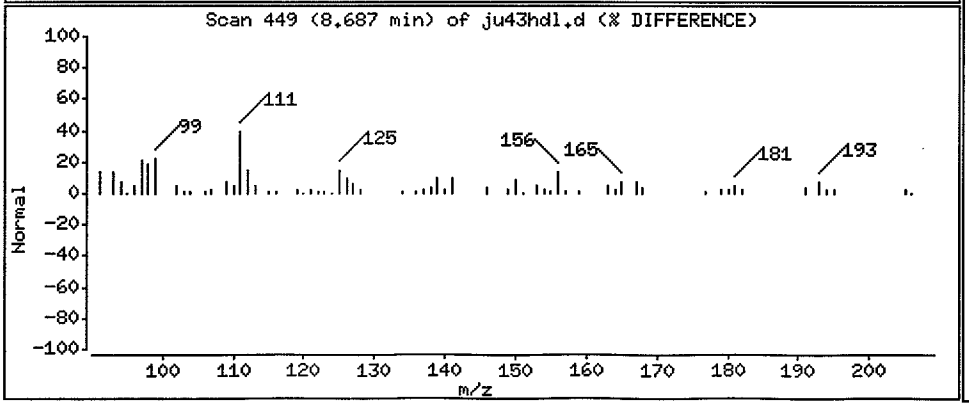
Concentration: 18.87 ug/kg

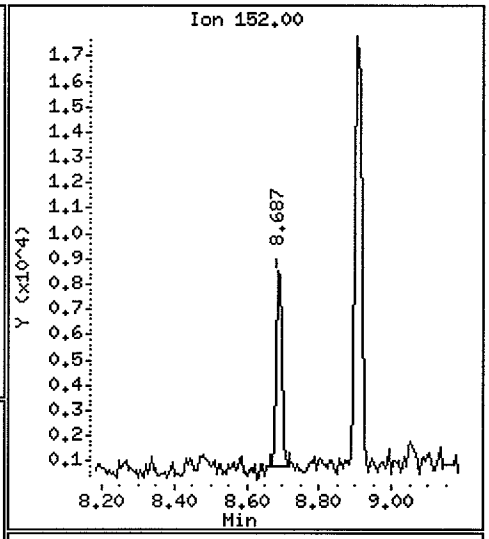
GURU

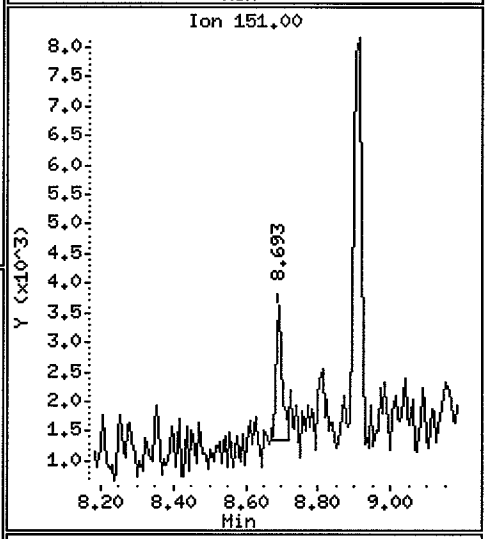


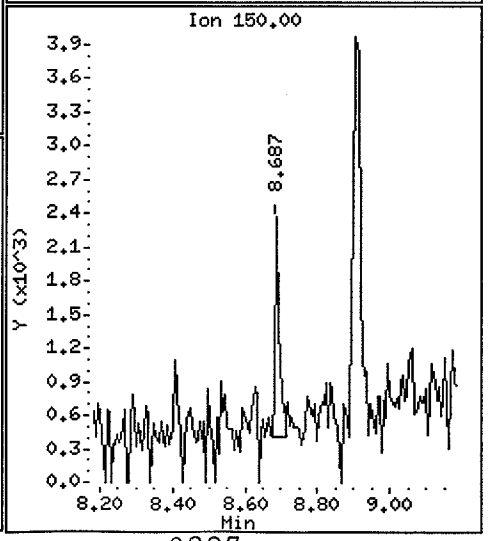












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

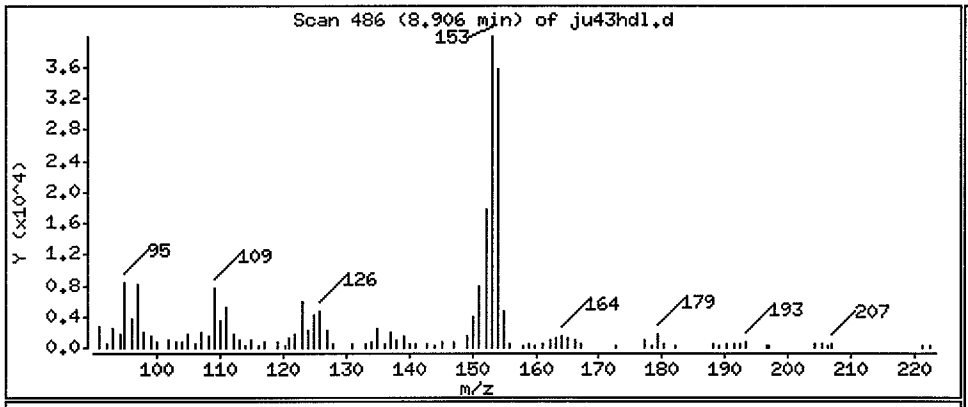
Operator: VTS

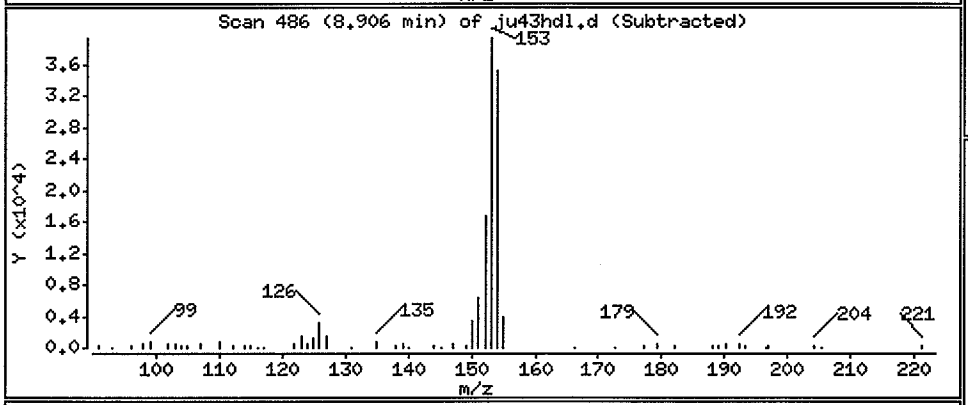
Column phase: ZB-5

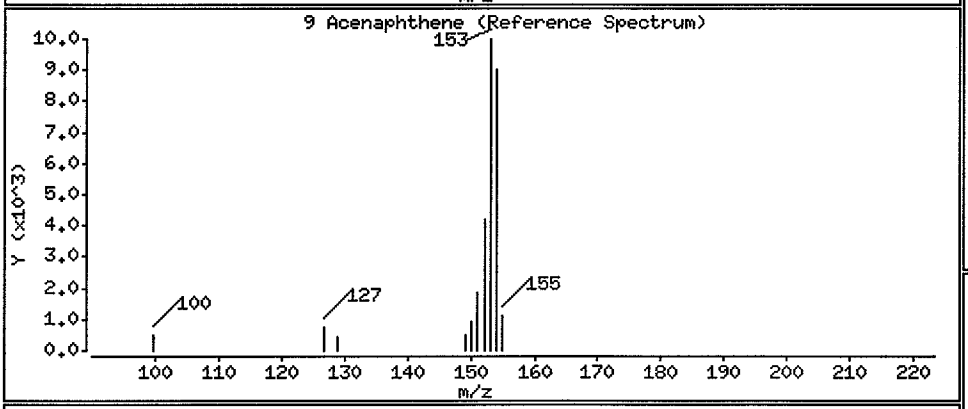
Column diameter: 0.25

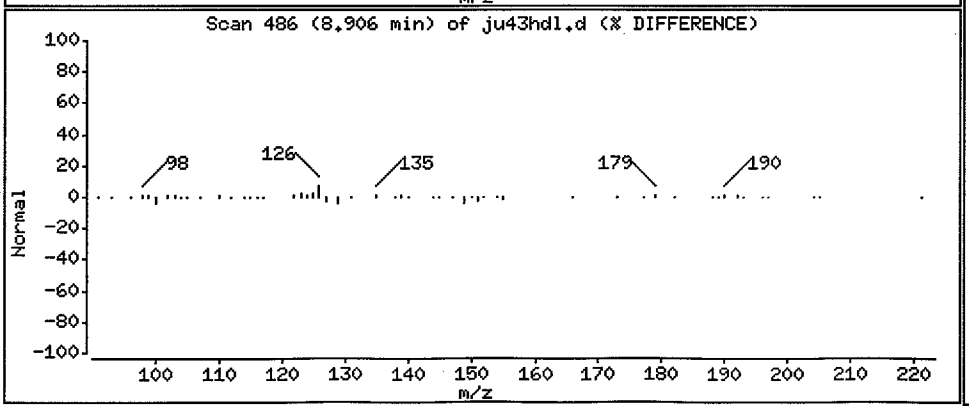
9 Acenaphthene

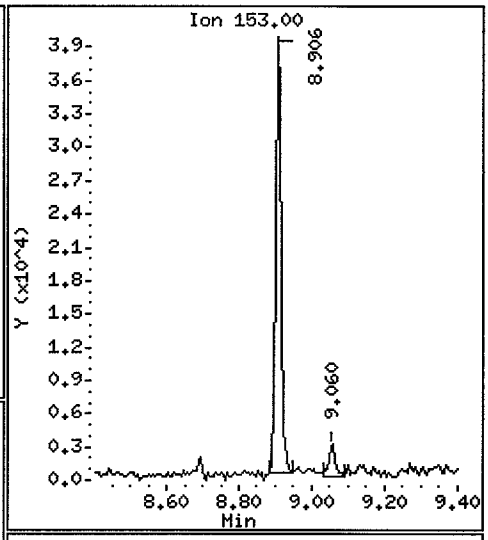
Concentration: 144.9 ug/kg

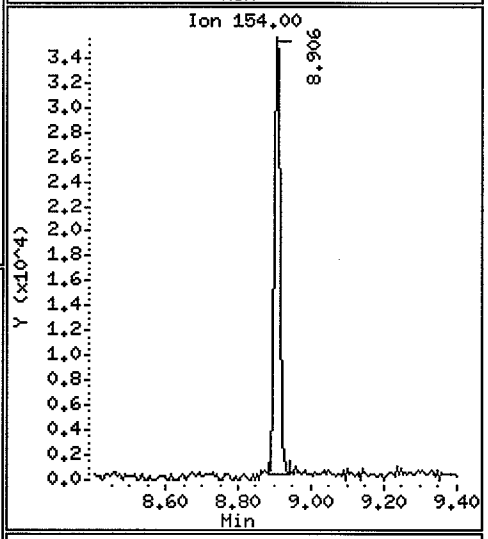


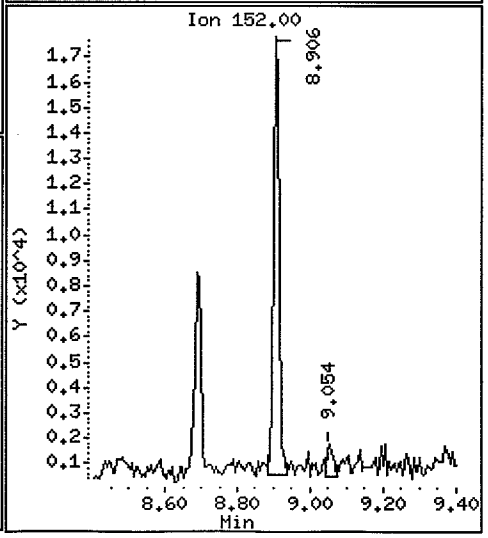












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

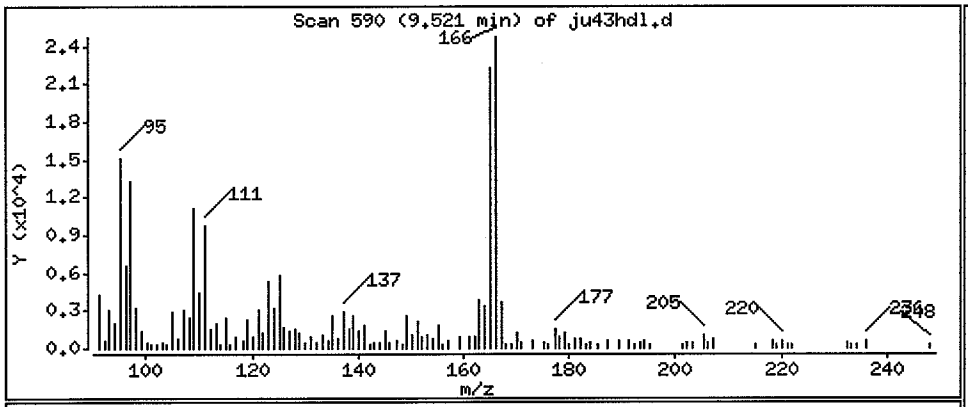
Operator: VTS

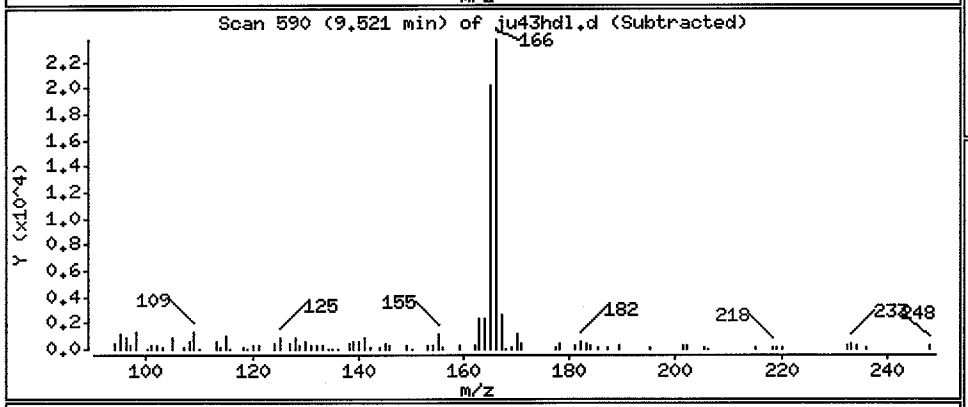
Column phase: ZB-5

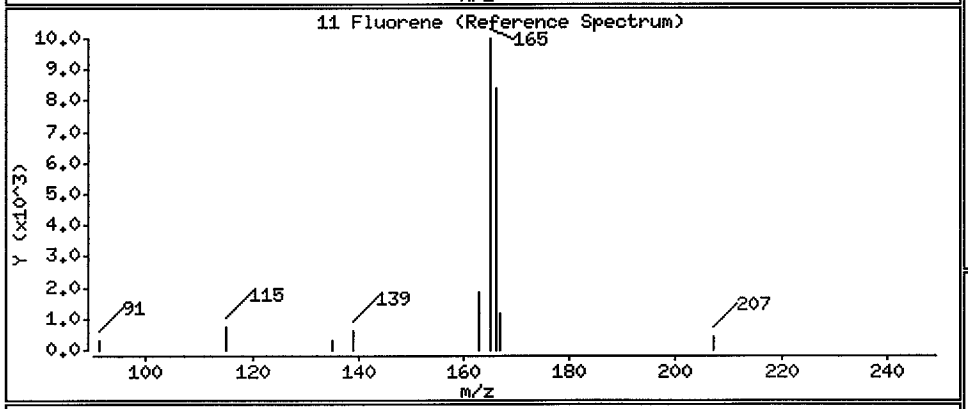
Column diameter: 0.25

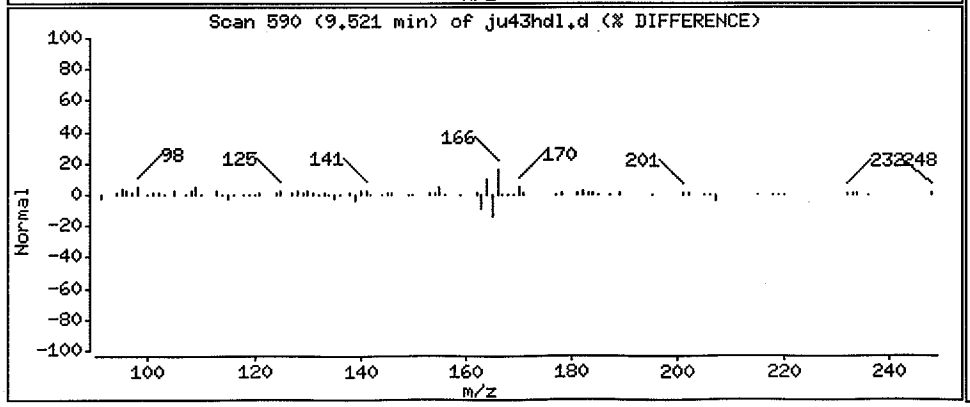
11 Fluorene

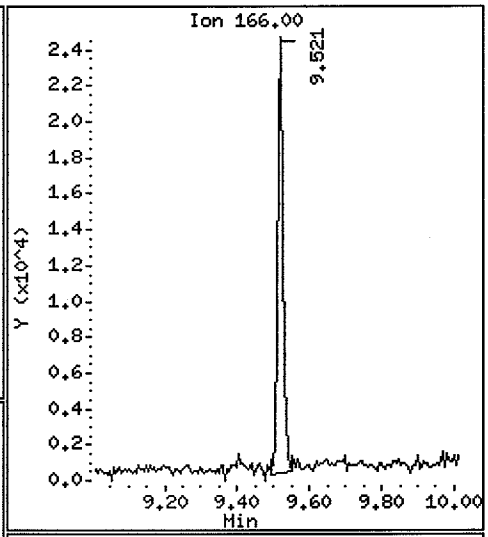
Concentration: 82.61 ug/kg

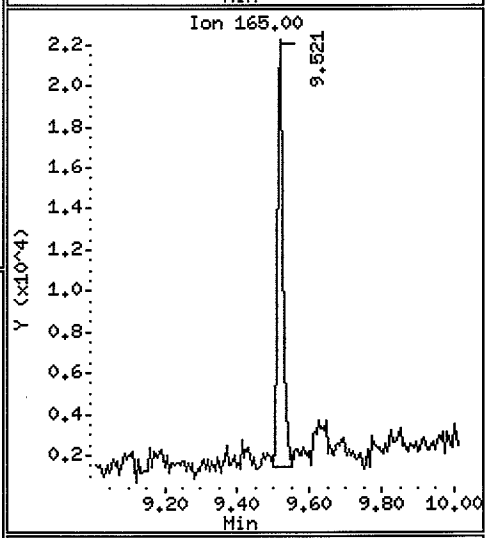


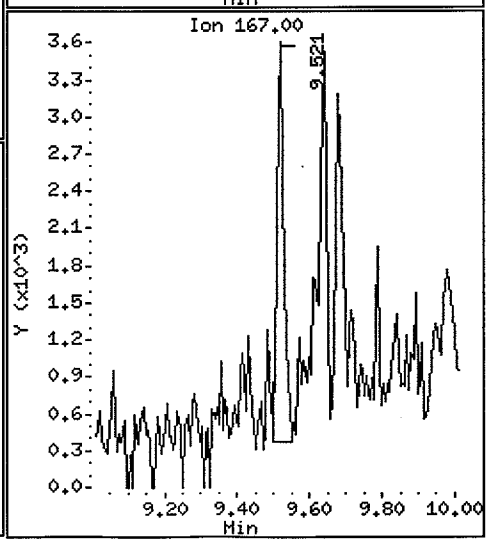












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

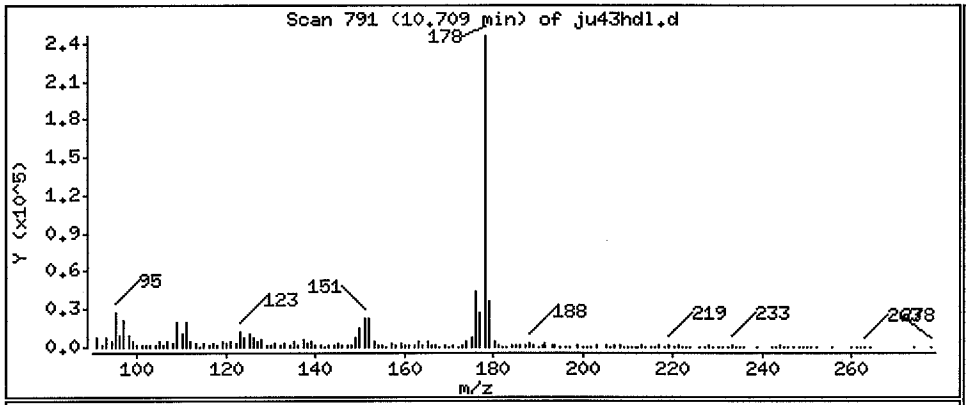
Operator: VTS

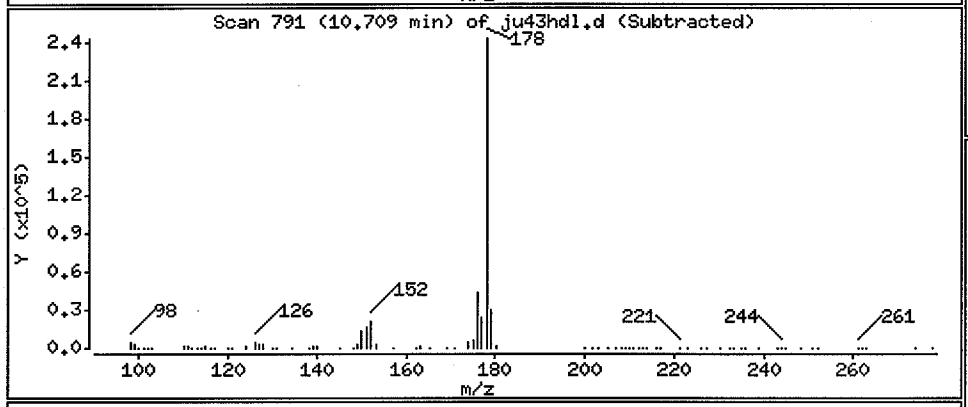
Column phase: ZB-5

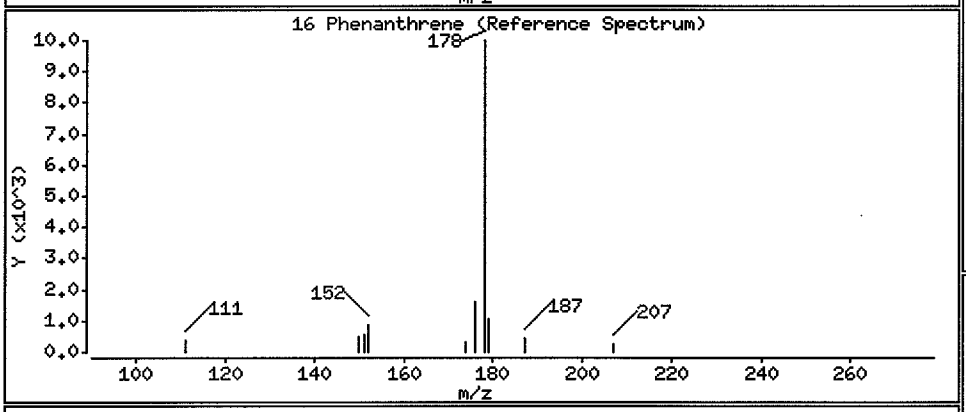
Column diameter: 0.25

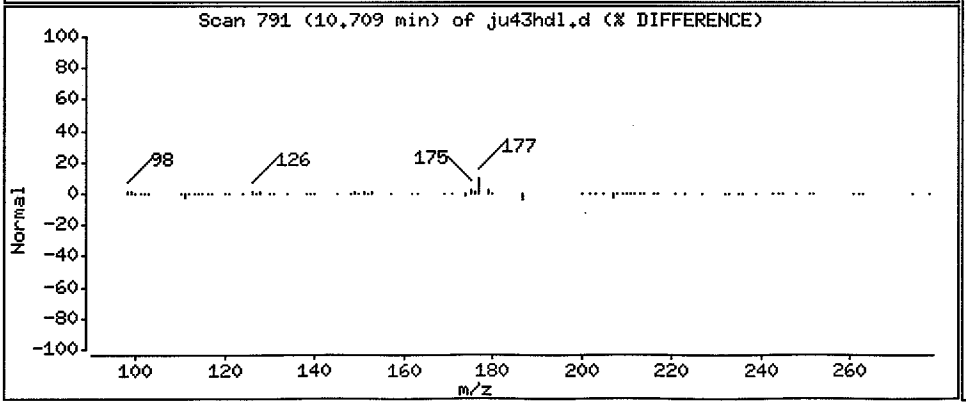
16 Phenanthrene

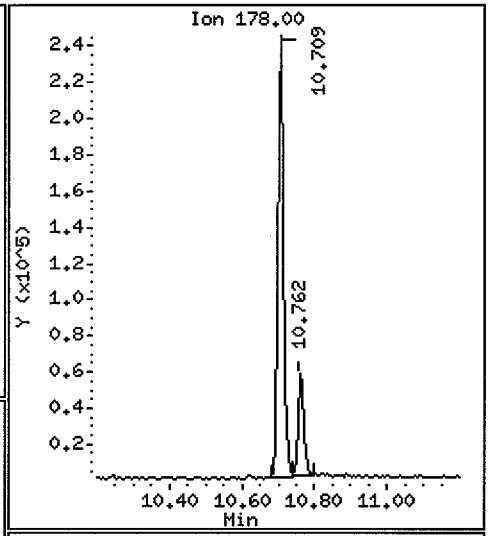
Concentration: 653.9 ug/kg

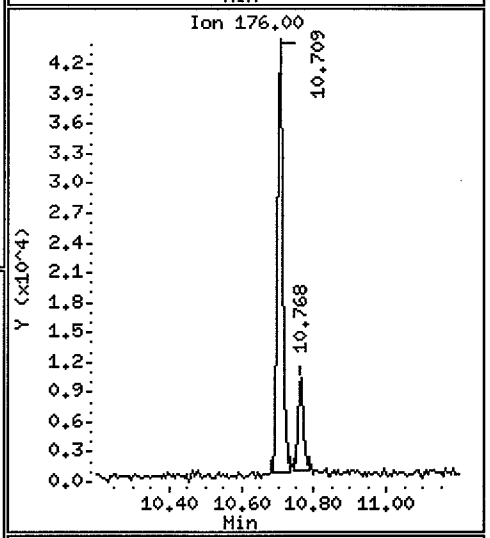


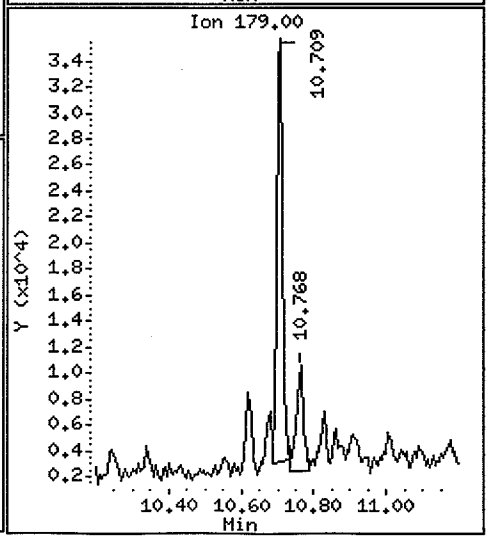












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

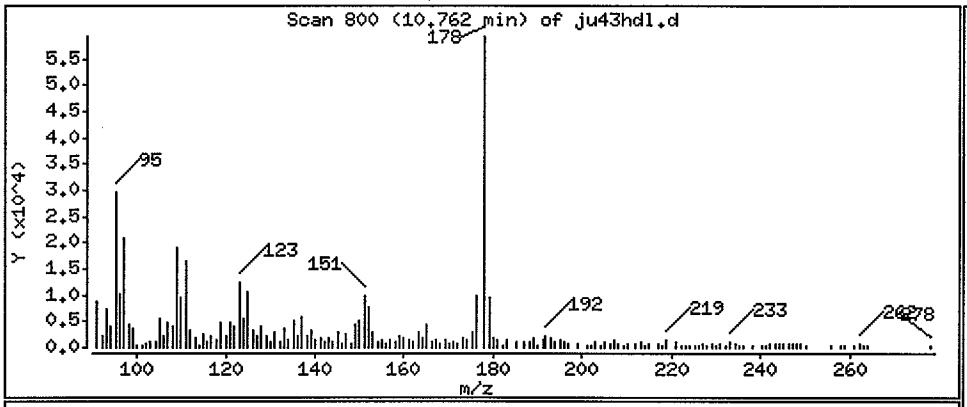
Operator: VTS

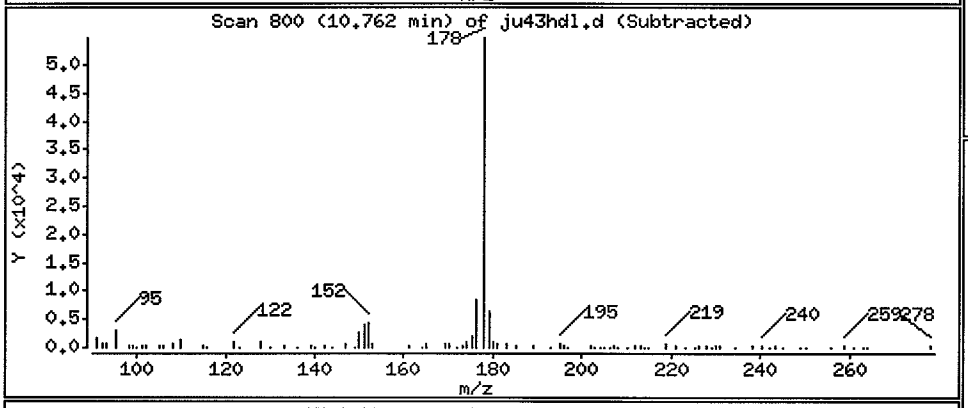
Column phase: ZB-5

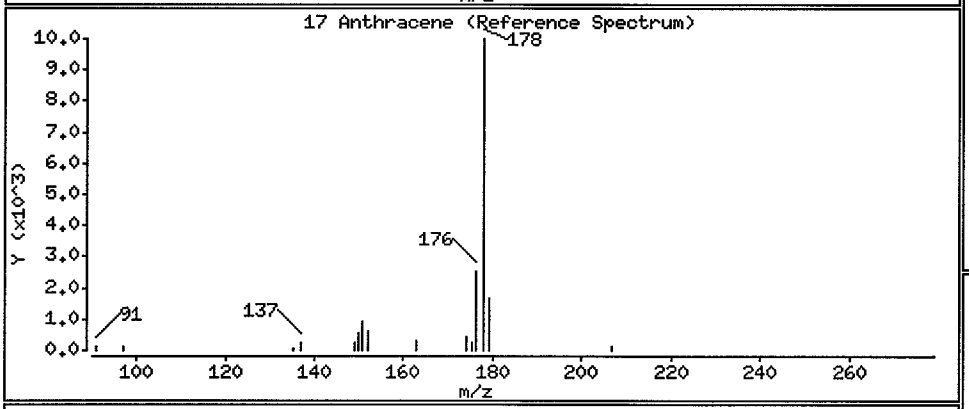
Column diameter: 0.25

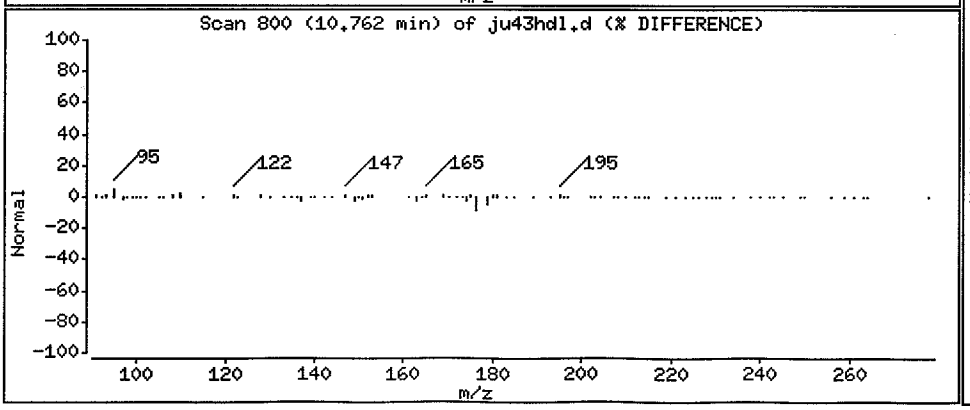
17 Anthracene

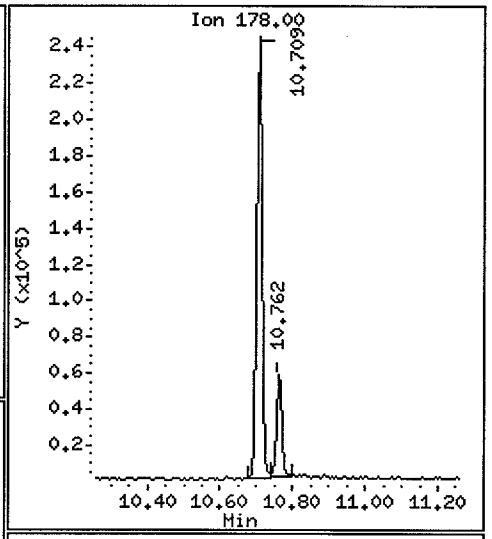
Concentration: 149.3 ug/kg

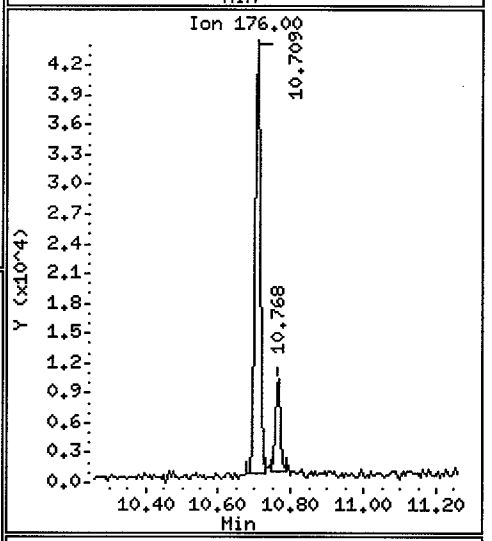


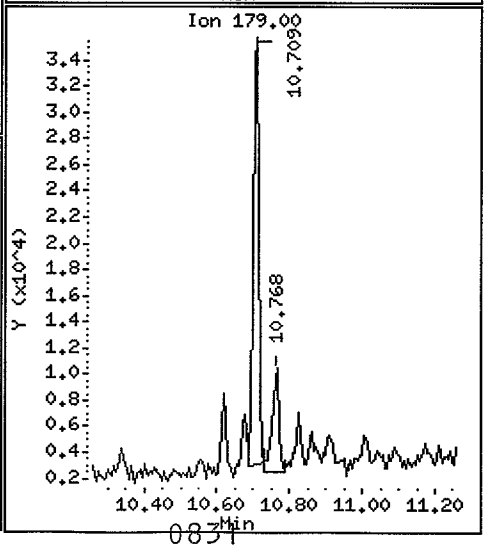












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

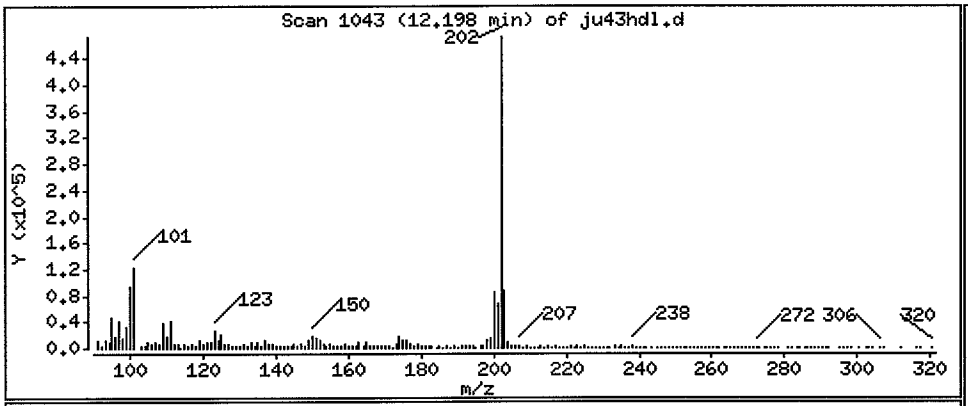
Operator: VTS

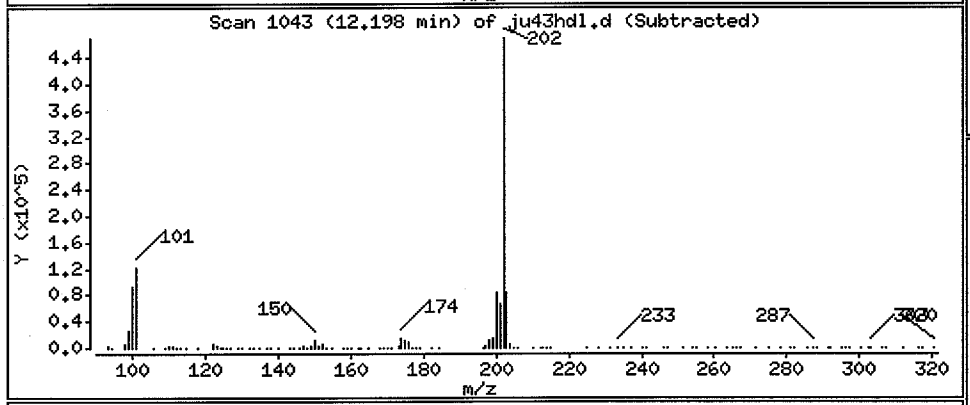
Column phase: ZB-5

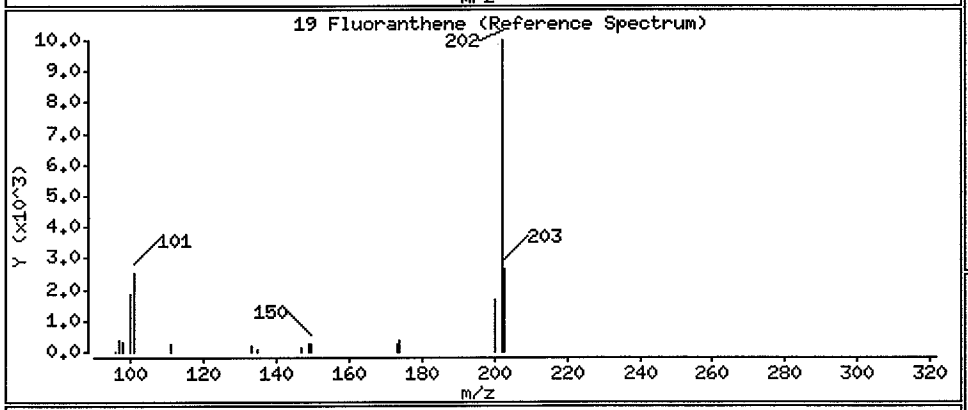
Column diameter: 0.25

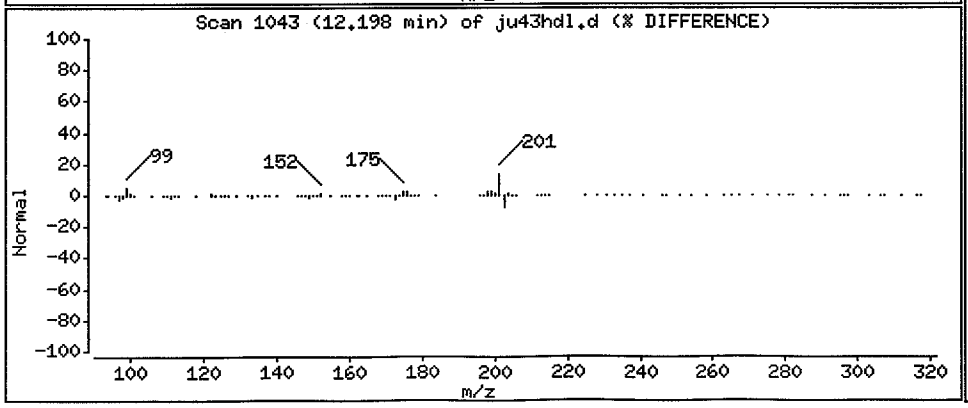
19 Fluoranthene

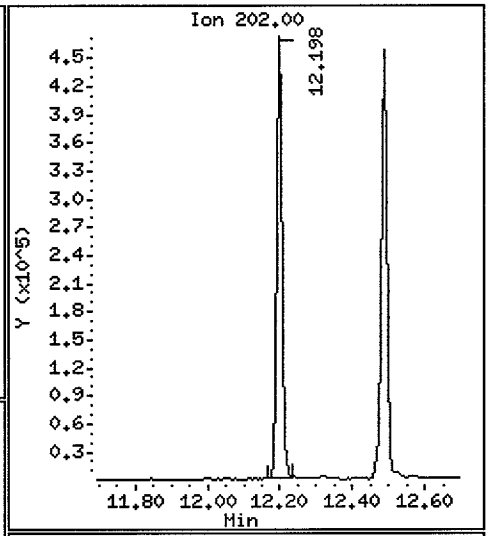
Concentration: 1455 ug/kg

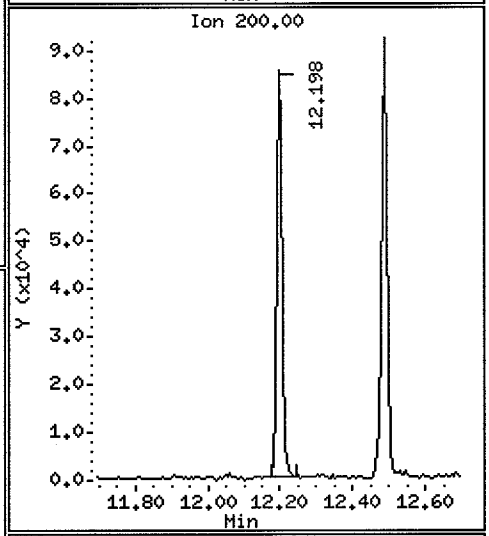


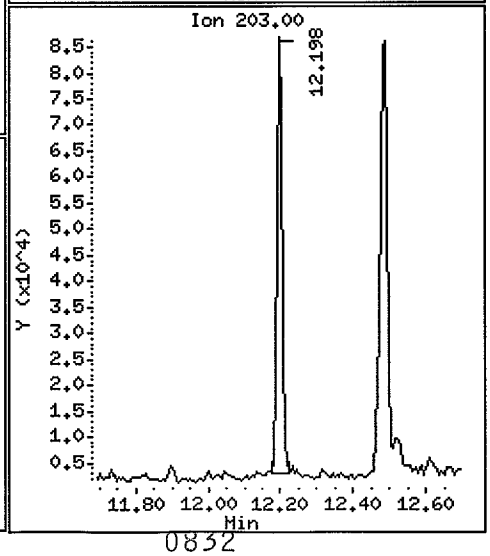












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

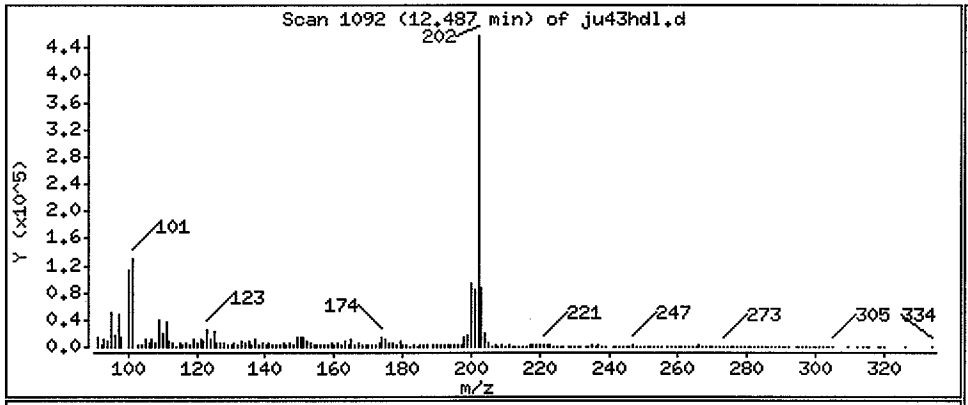
Operator: VTS

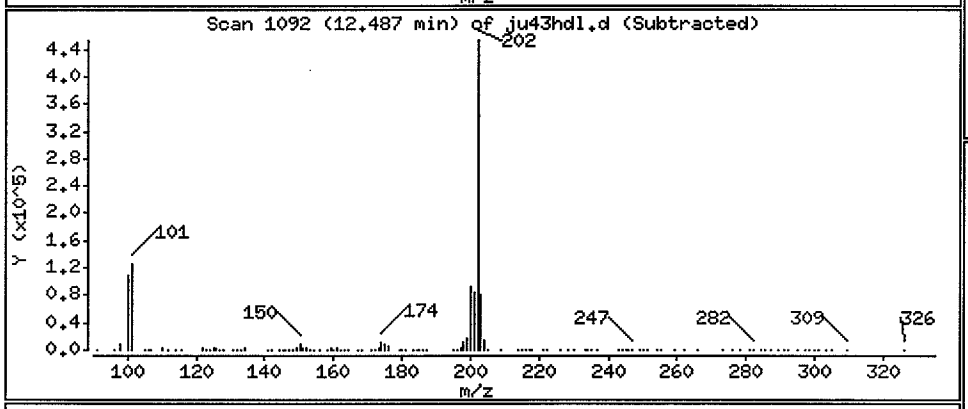
Column phase: ZB-5

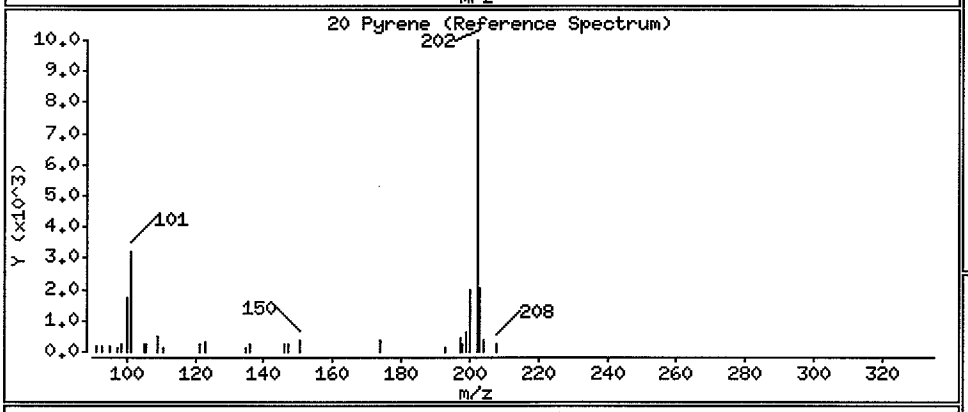
Column diameter: 0.25

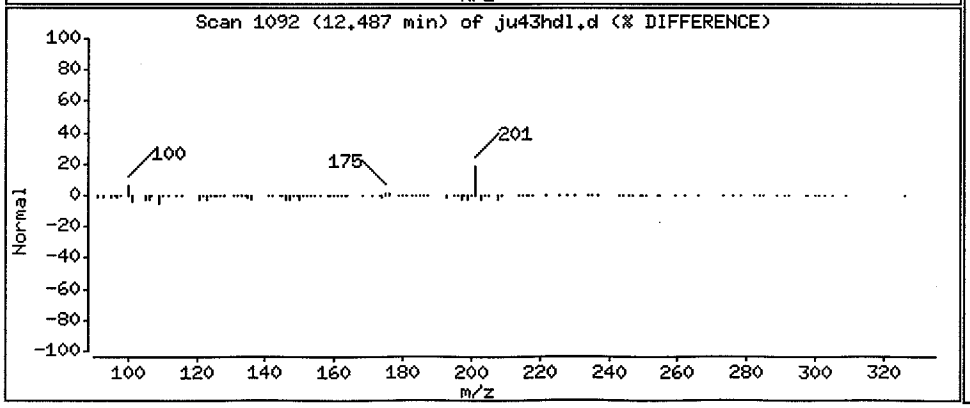
20 Pyrene

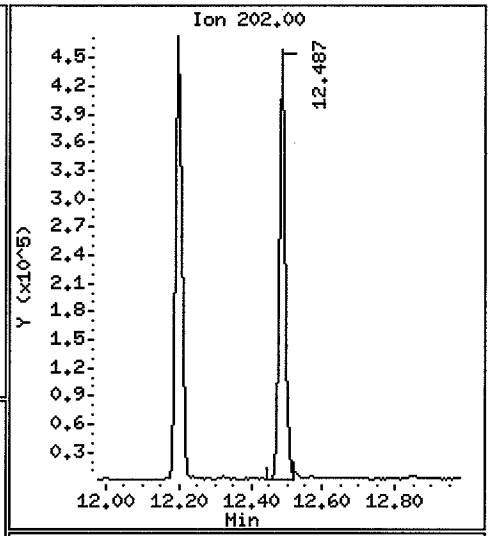
Concentration: 1167 ug/kg

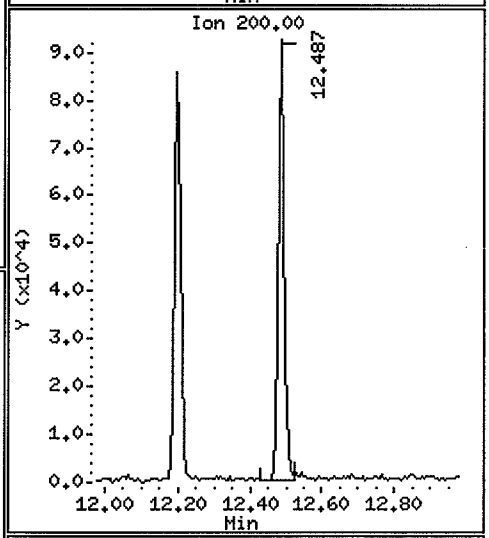


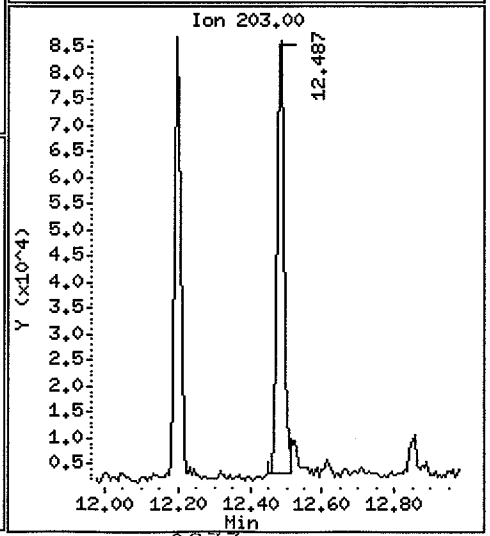












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

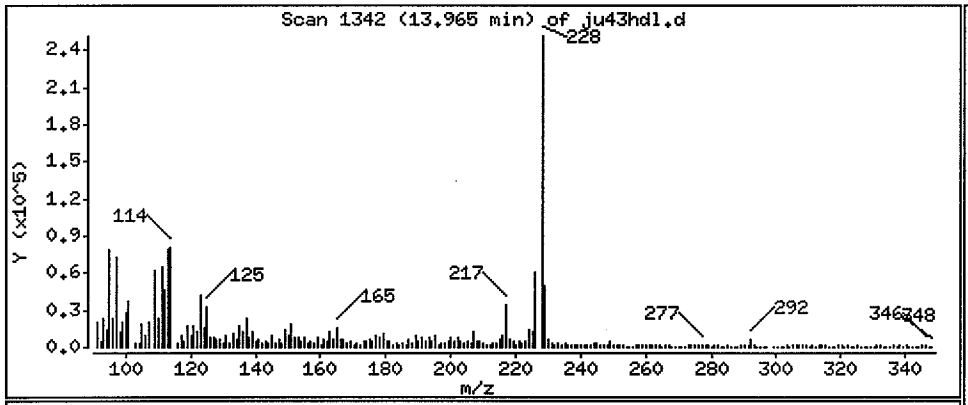
Operator: VTS

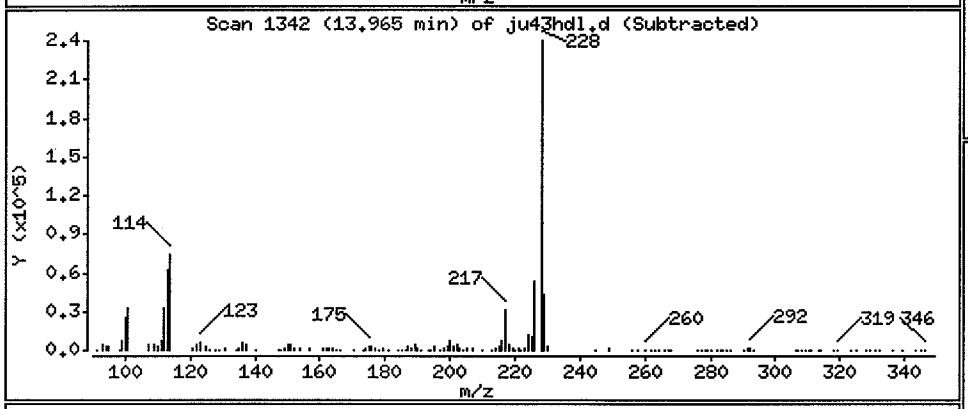
Column phase: ZB-5

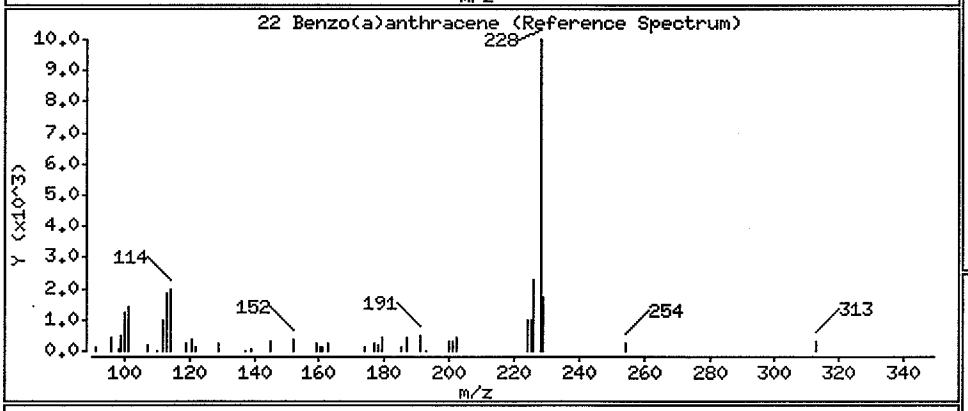
Column diameter: 0.25

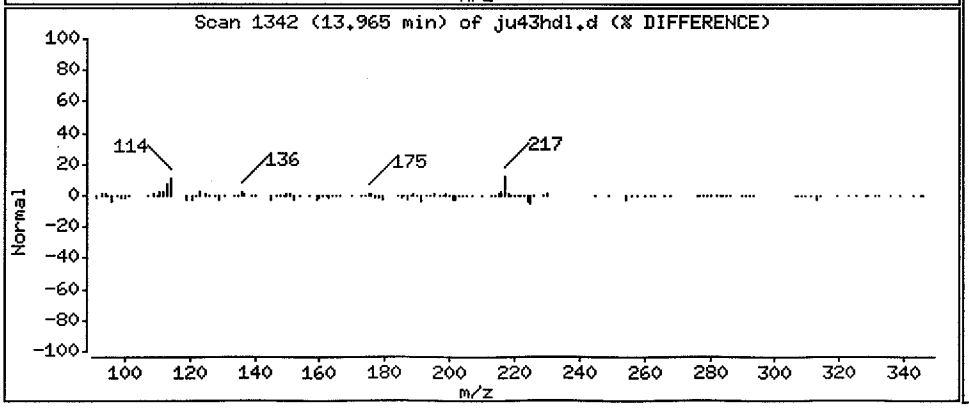
22 Benzo(a)anthracene

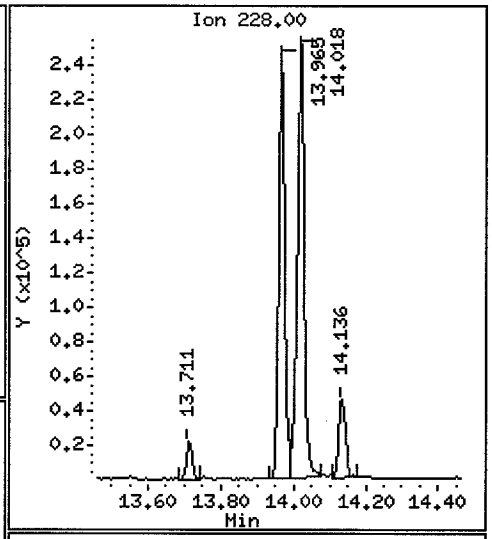
Concentration: 768.2 ug/kg

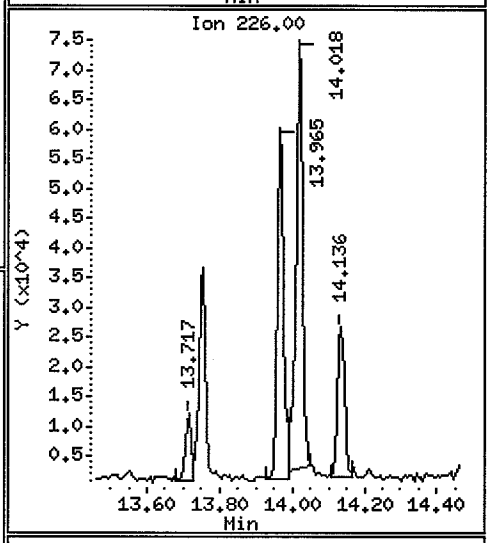


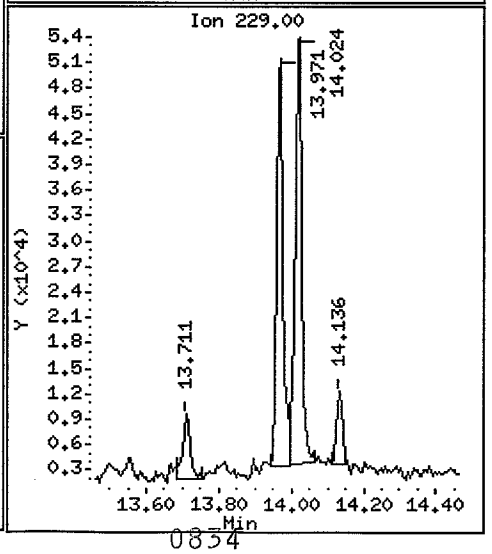












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

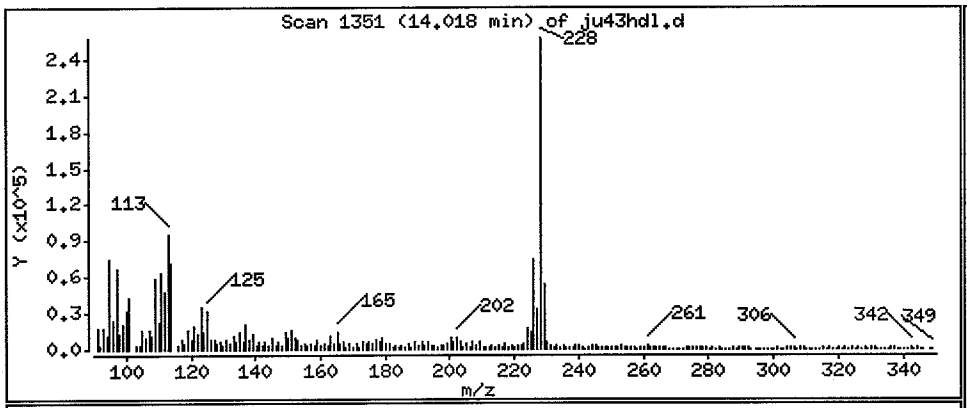
Operator: VTS

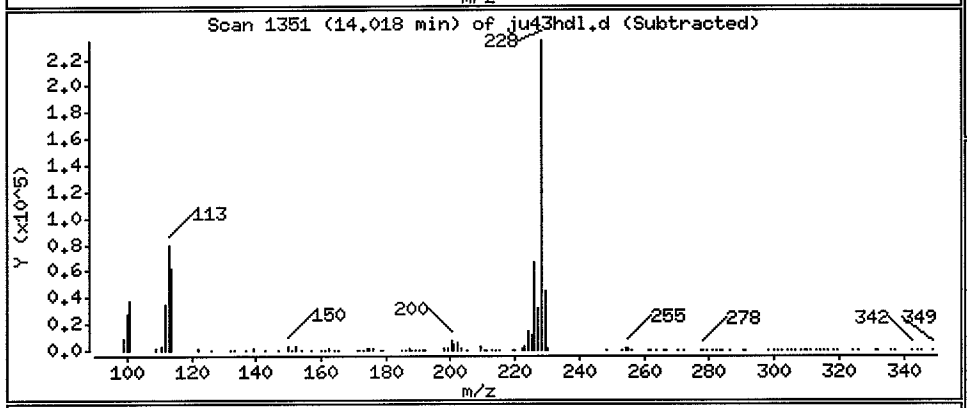
Column phase: ZB-5

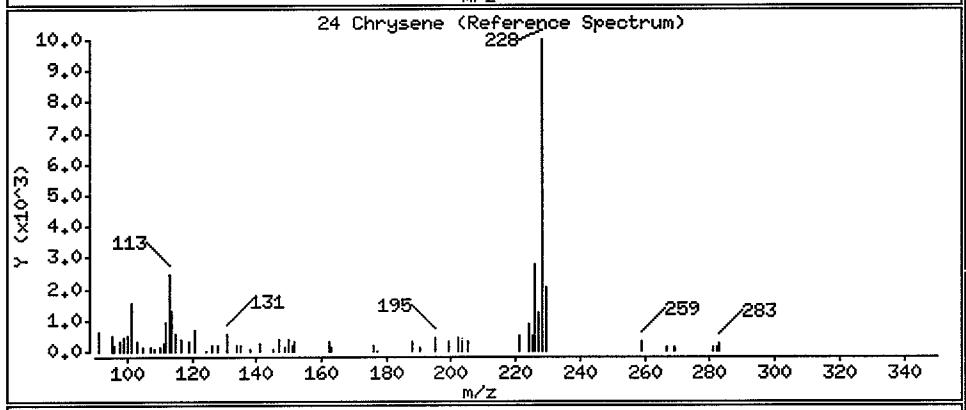
Column diameter: 0.25

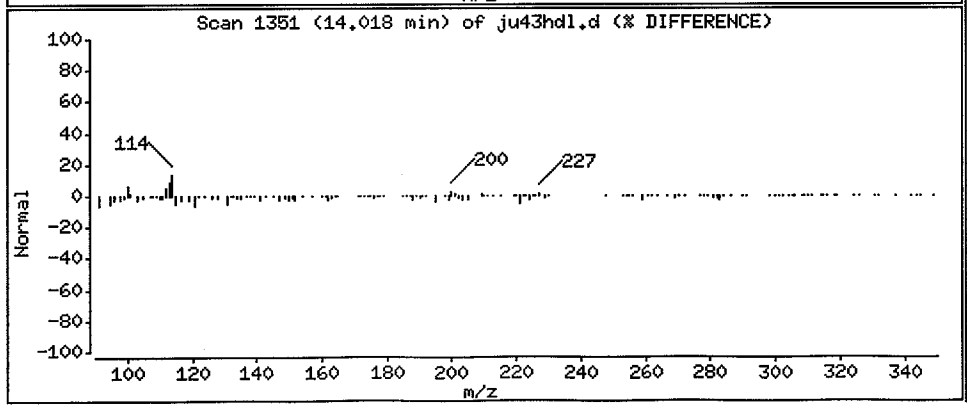
24 Chrysene

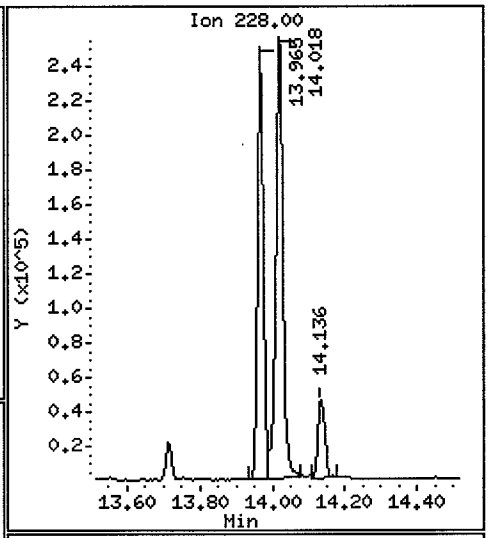
Concentration: 996.0 ug/kg

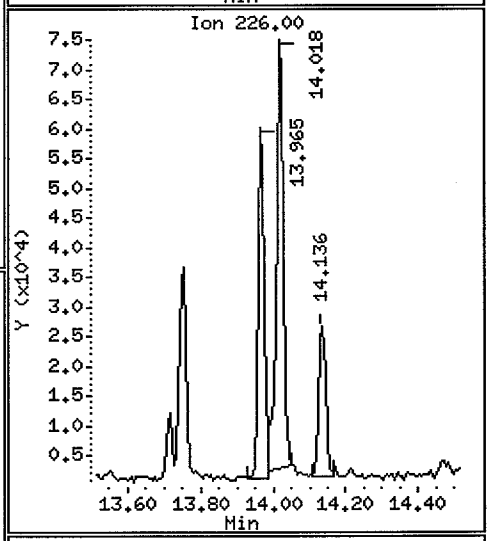


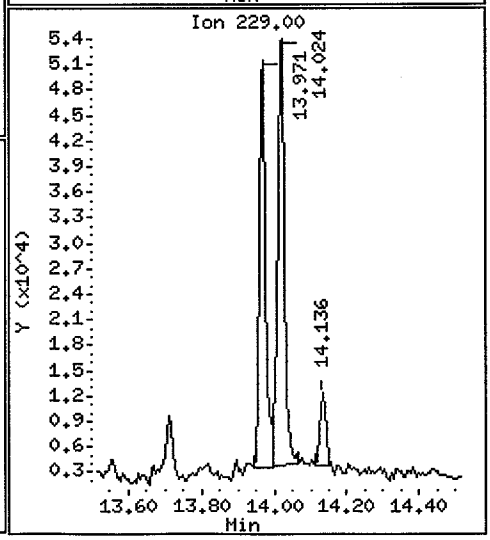












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

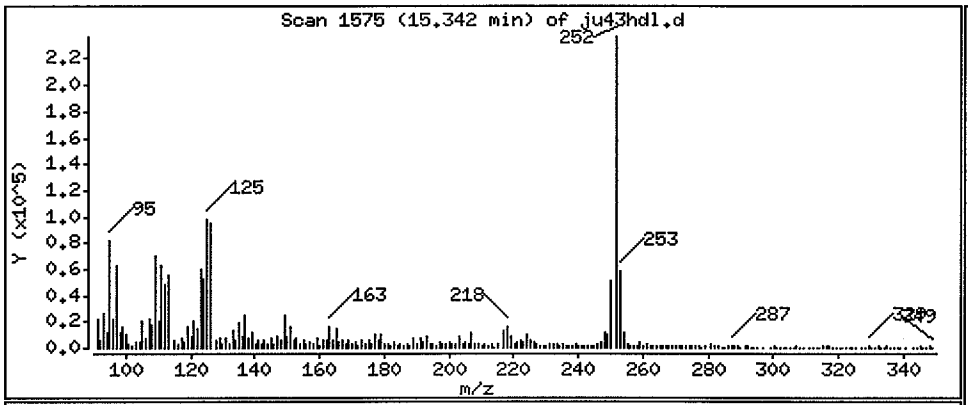
Operator: VTS

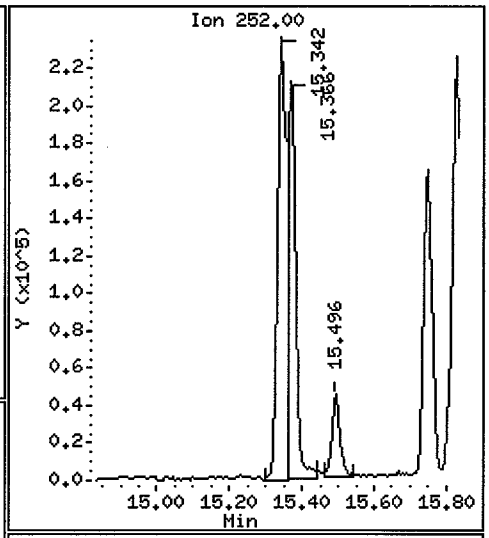
Column phase: ZB-5

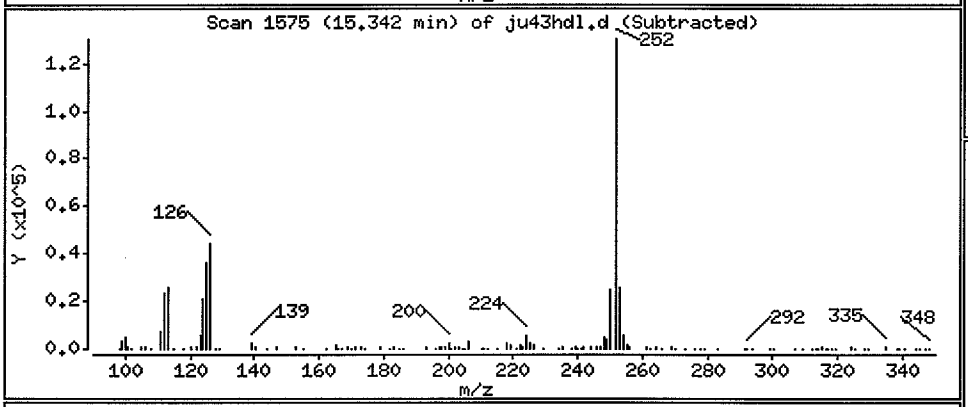
Column diameter: 0.25

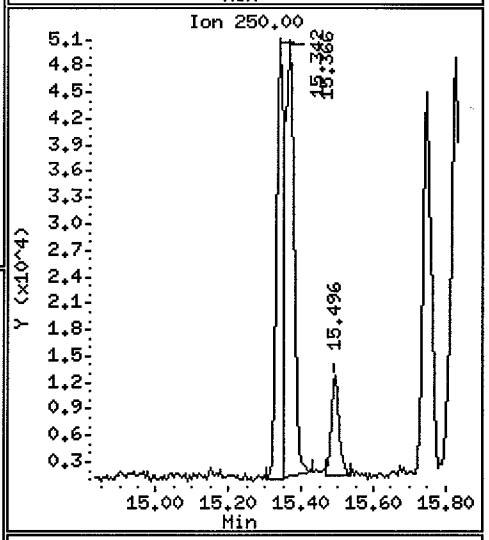
28 Benzo(b)fluoranthene

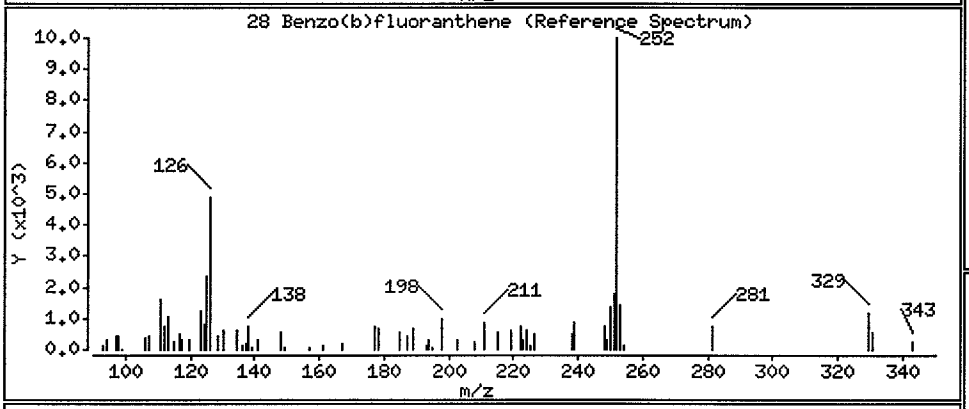
Concentration: 1062 ug/kg

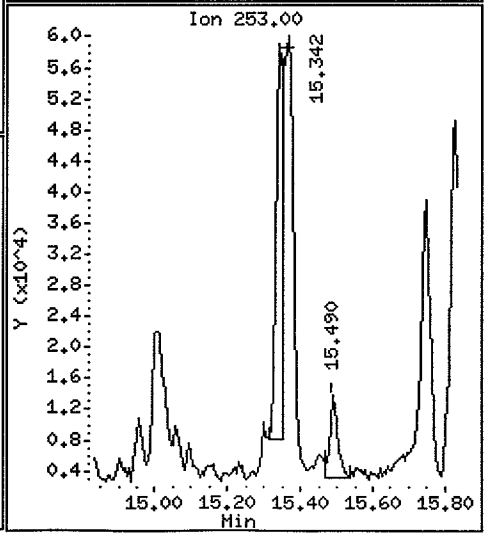


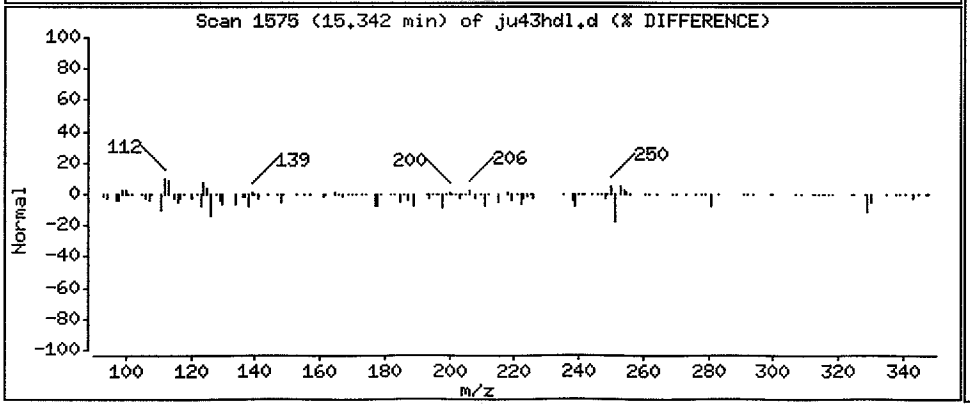












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

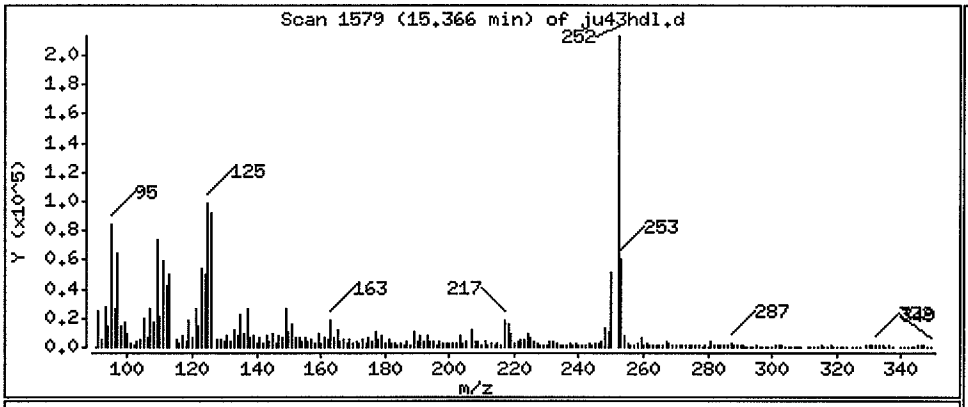
Operator: VTS

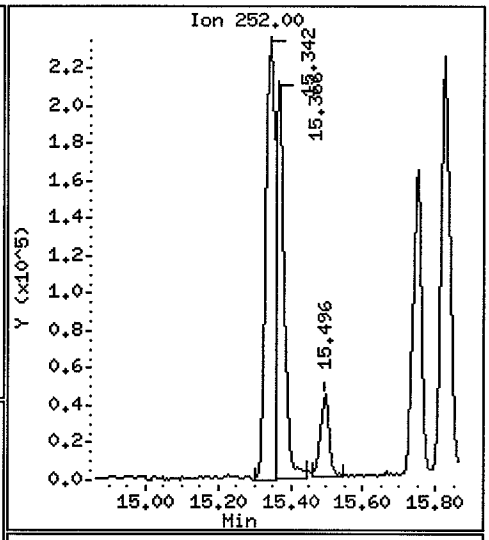
Column phase: ZB-5

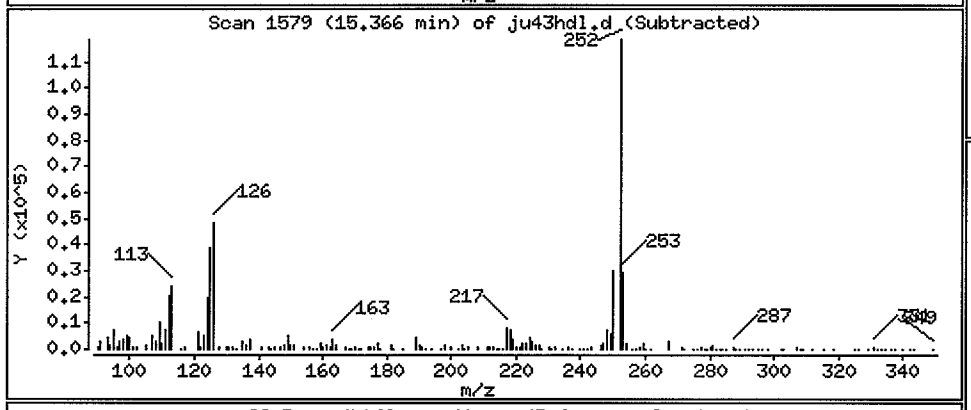
Column diameter: 0.25

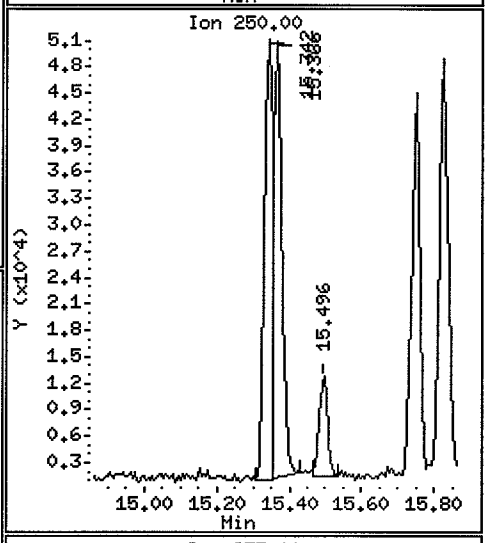
29 Benzo(k)fluoranthene

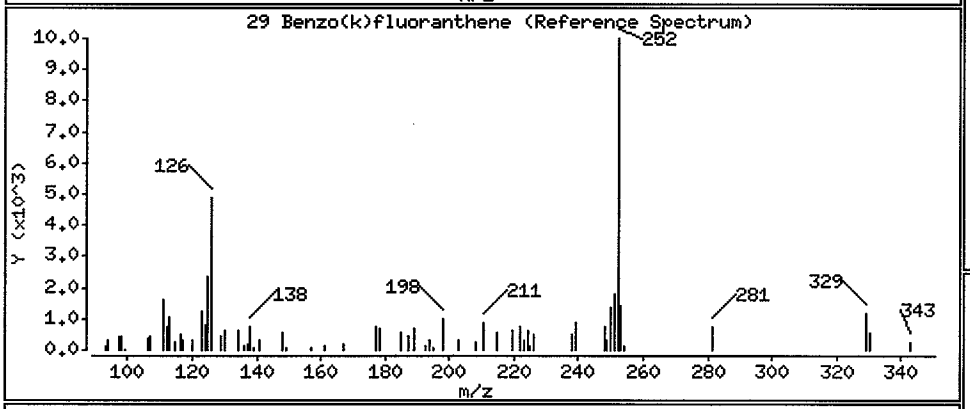
Concentration: 814.1 ug/kg

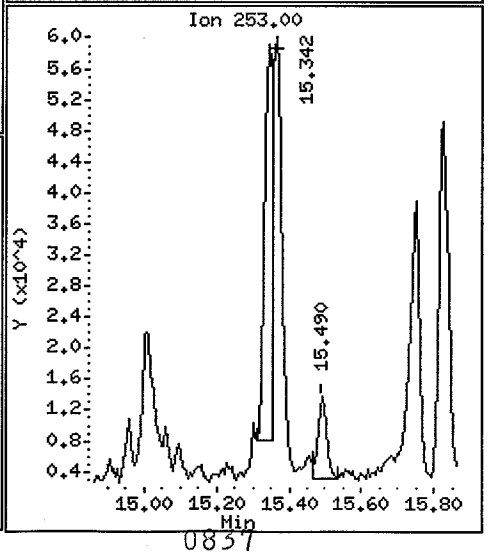


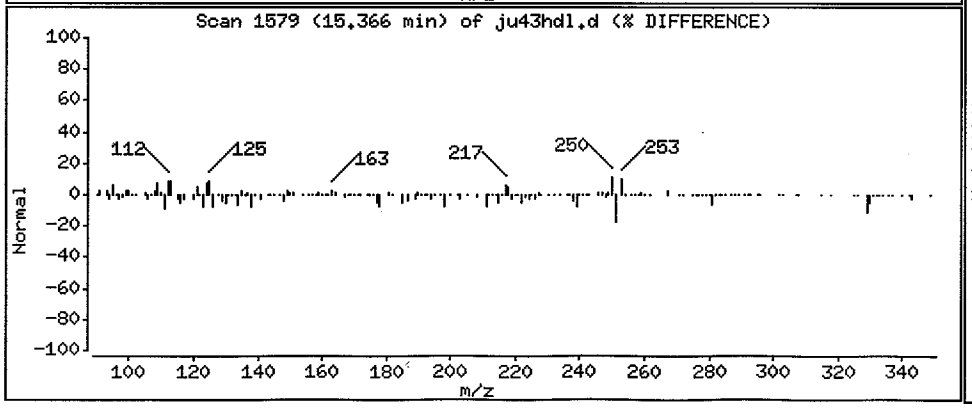












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

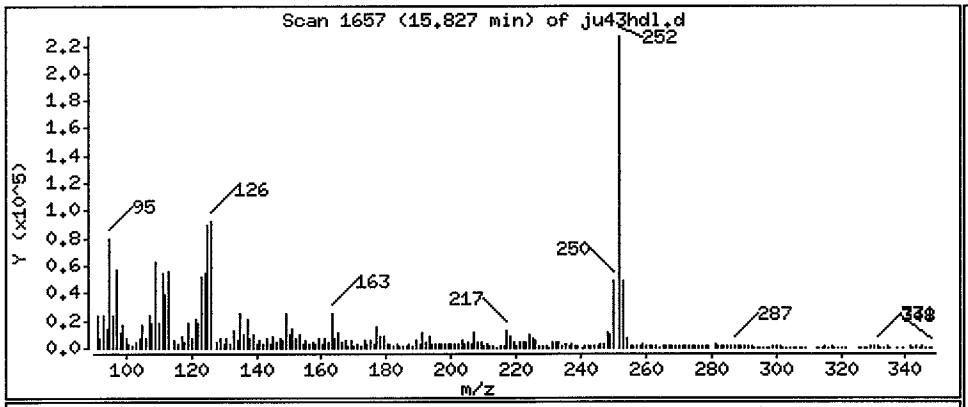
Operator: VTS

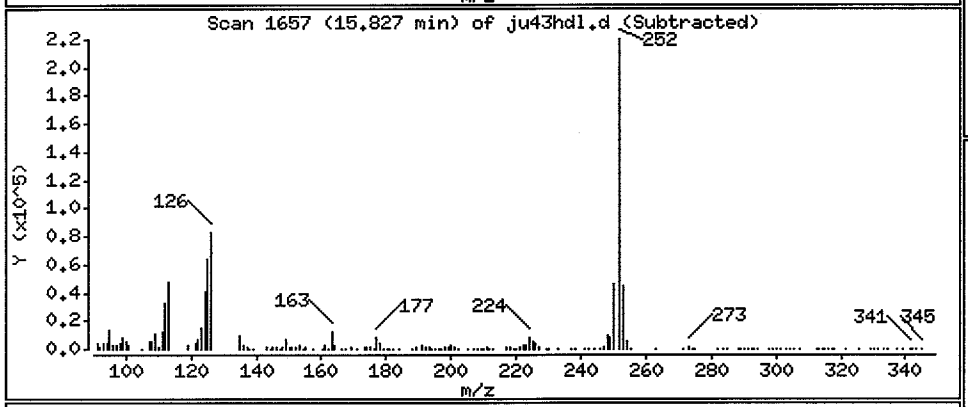
Column phase: ZB-5

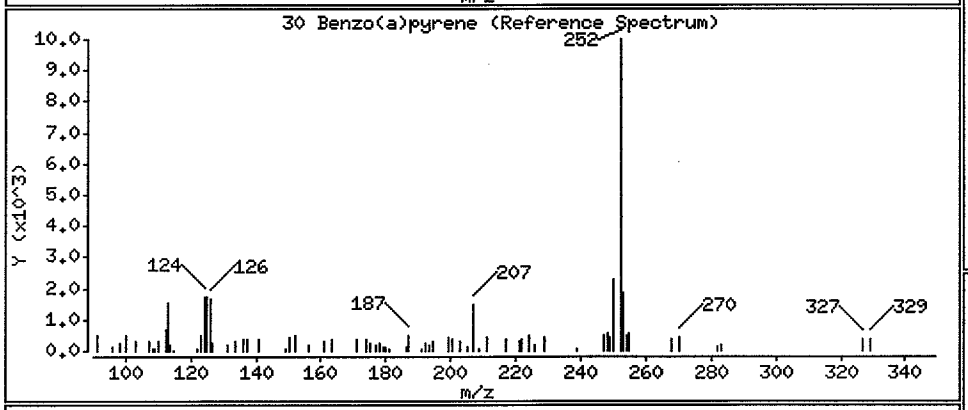
Column diameter: 0.25

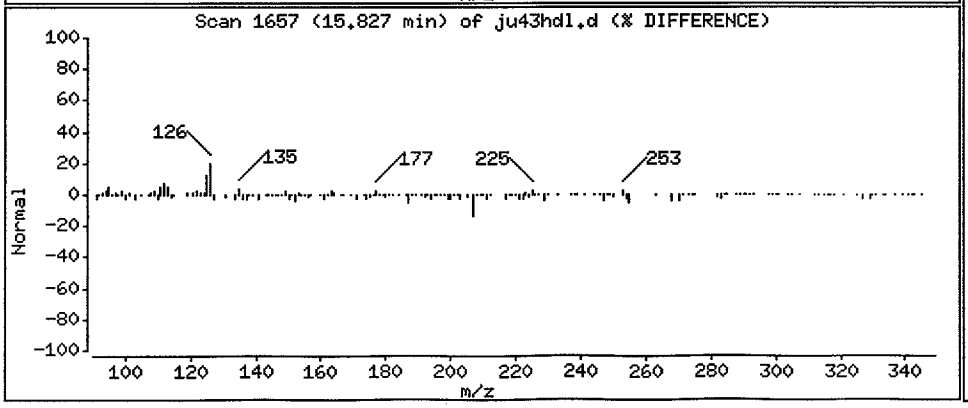
30 Benzo(a)pyrene

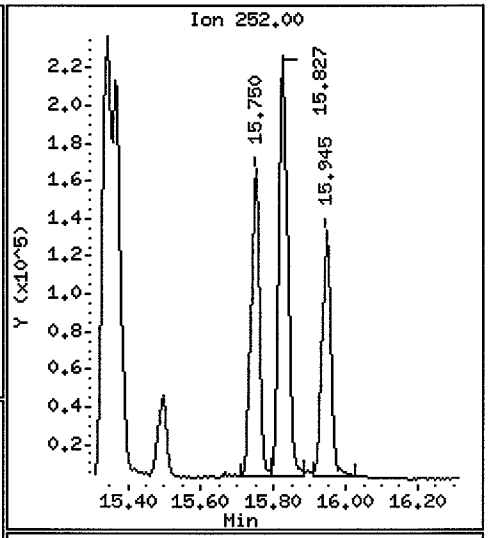
Concentration: 1053 ug/kg

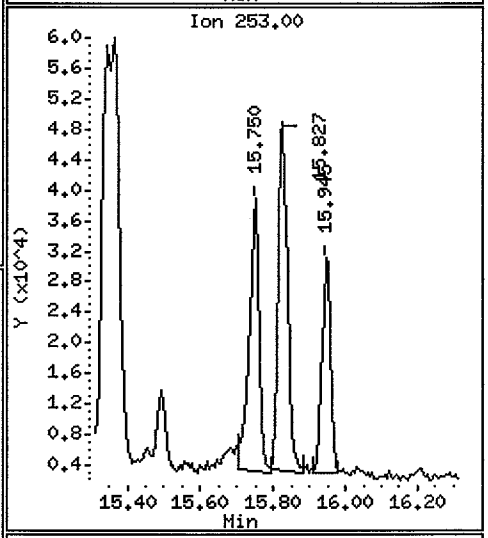


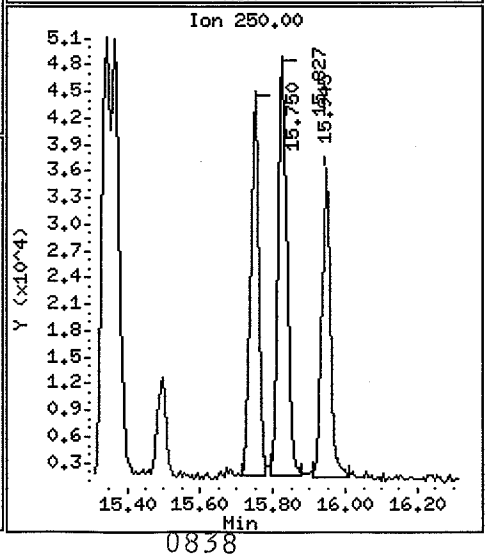












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

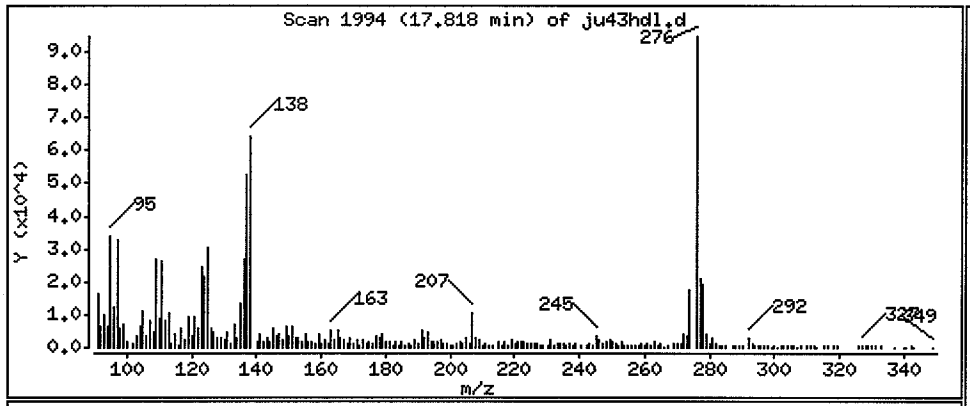
Operator: VTS

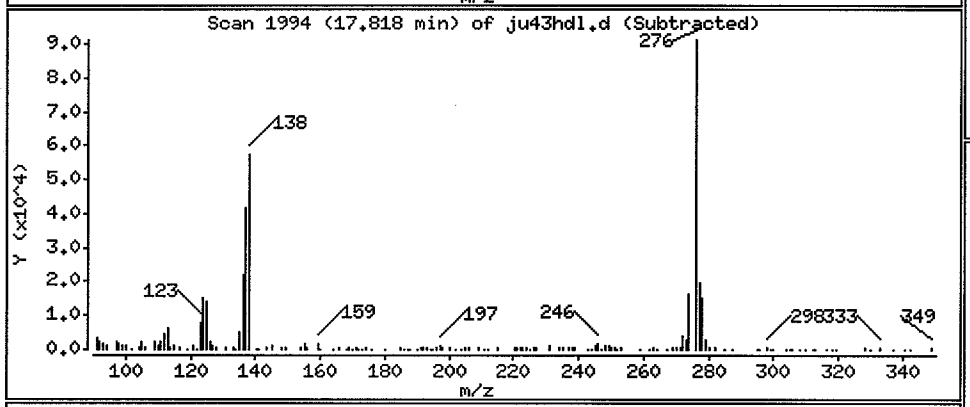
Column phase: ZB-5

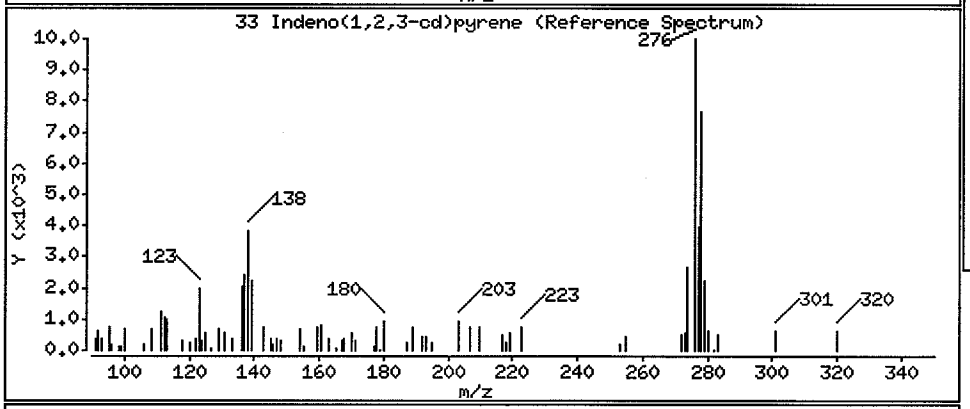
Column diameter: 0.25

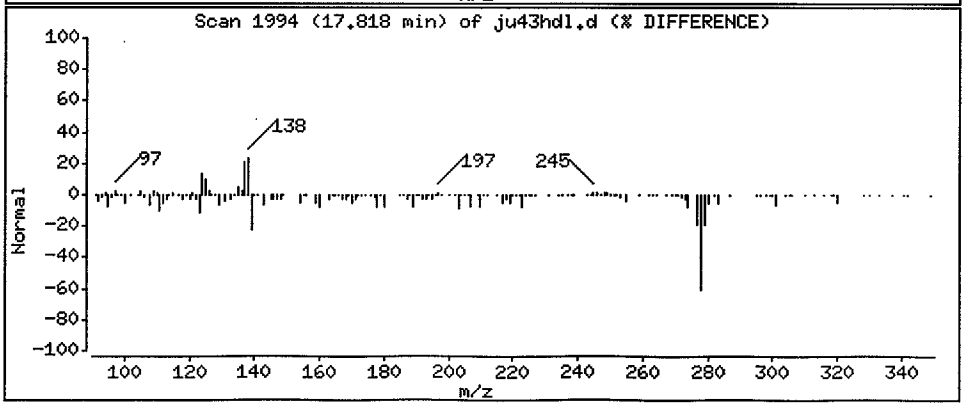
33 Indeno(1,2,3-cd)pyrene

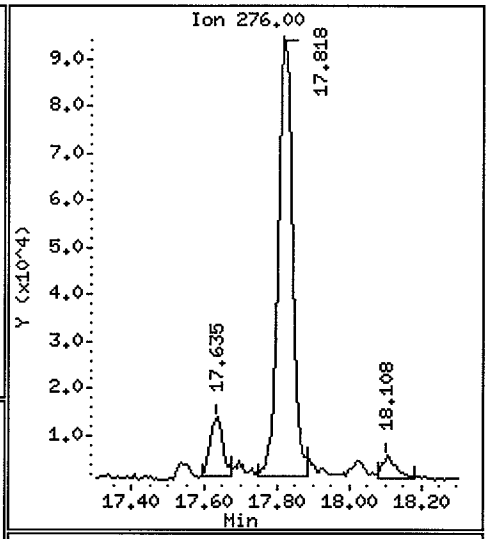
Concentration: 656.3 ug/kg

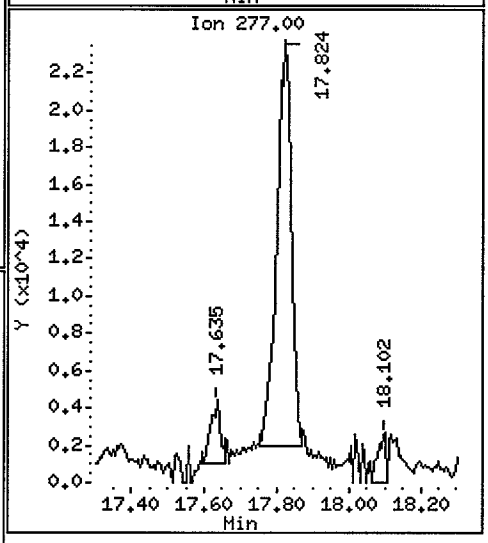












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

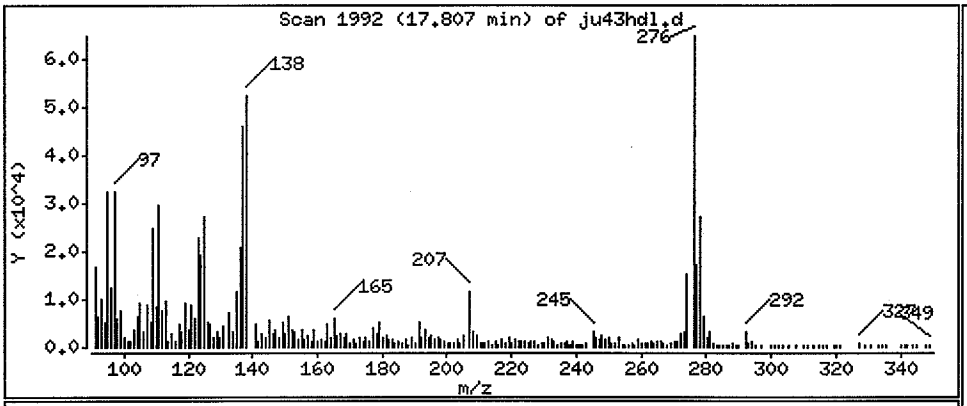
Operator: VTS

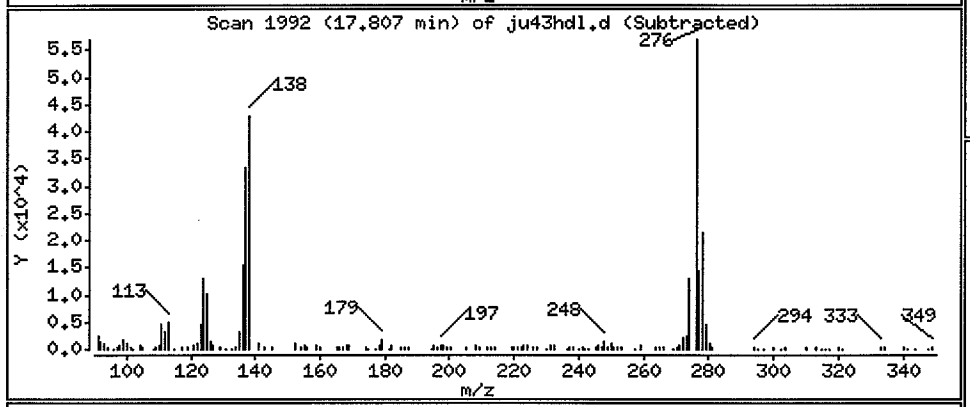
Column phase: ZB-5

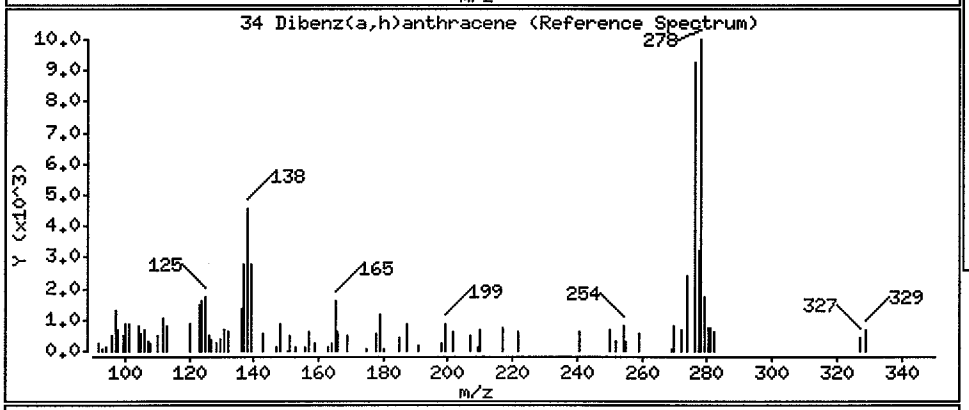
Column diameter: 0.25

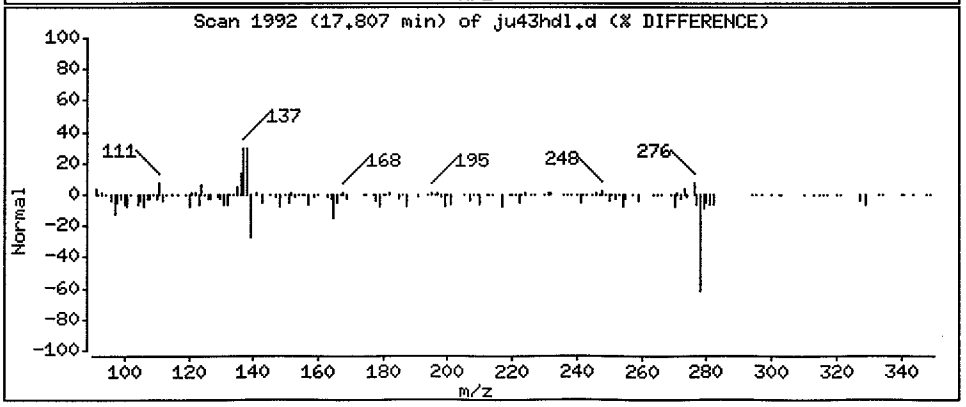
34 Dibenz(a,h)anthracene

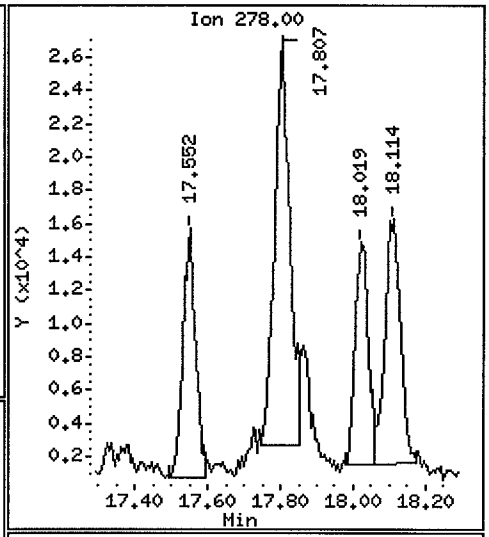
Concentration: 227.5 ug/kg

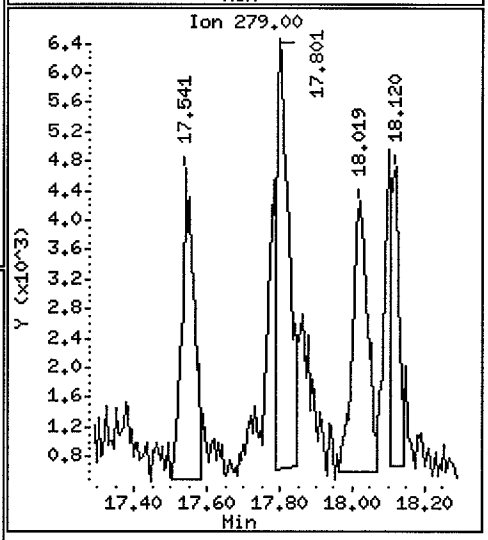












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

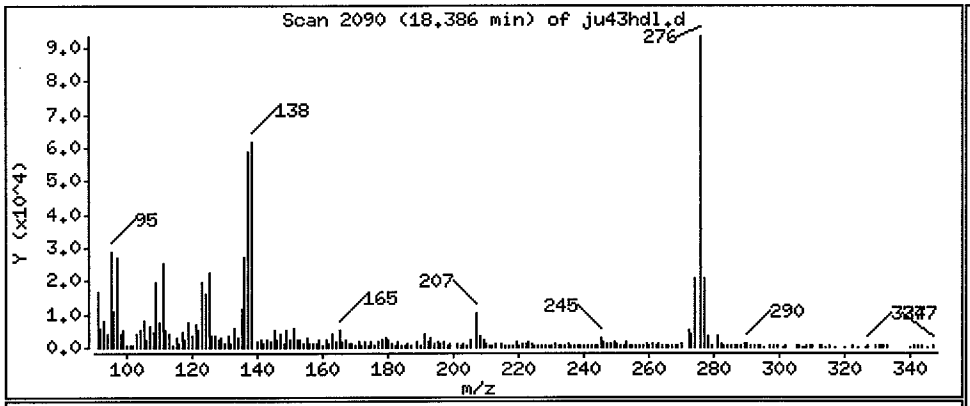
Operator: VTS

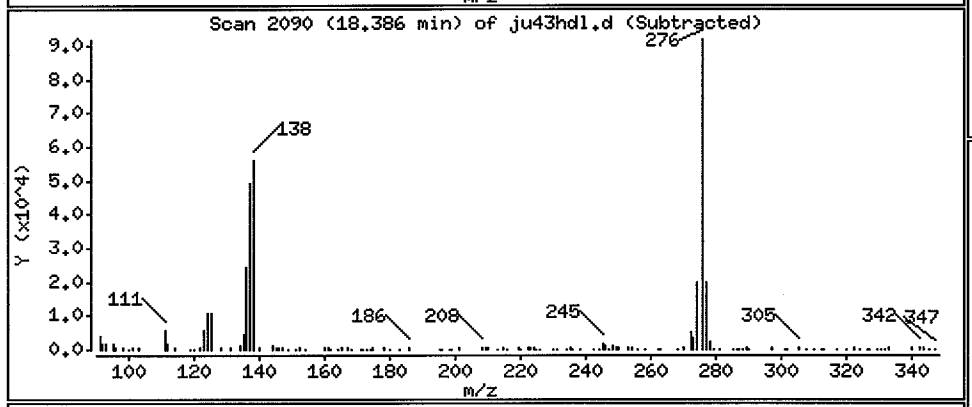
Column phase: ZB-5

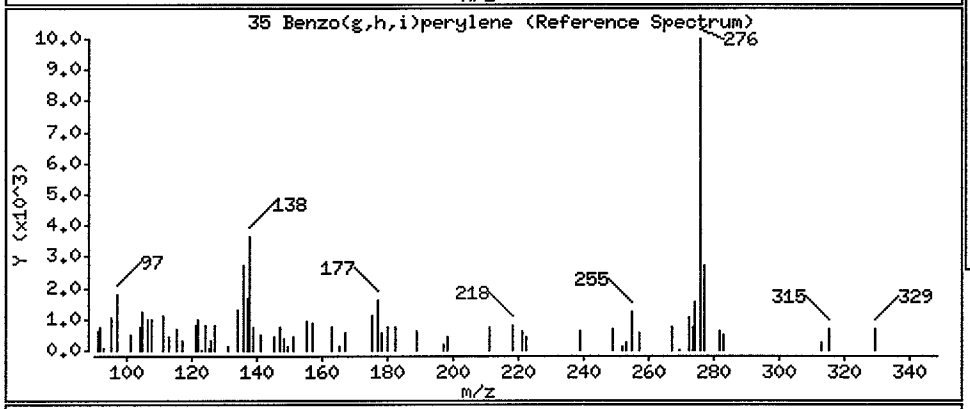
Column diameter: 0.25

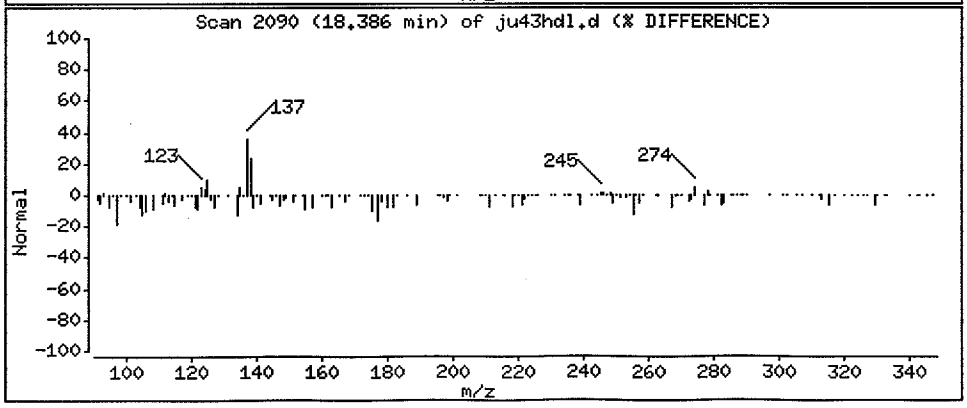
35 Benzo(g,h,i)perylene

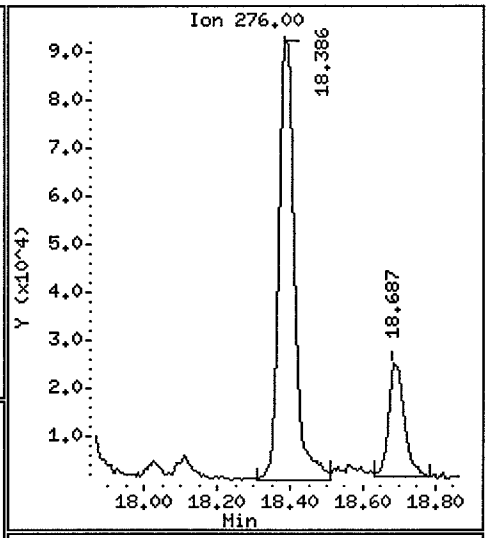
Concentration: 800.2 ug/kg

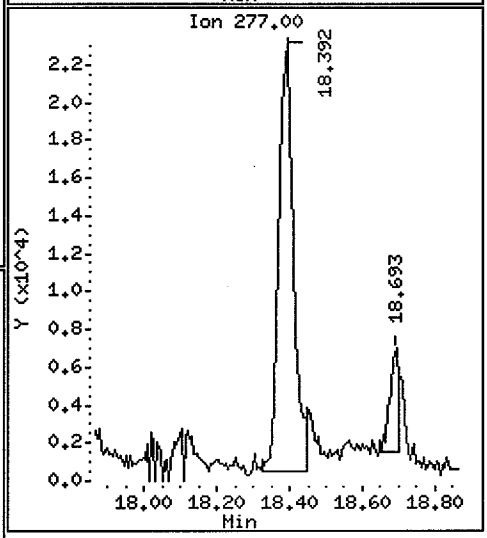












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

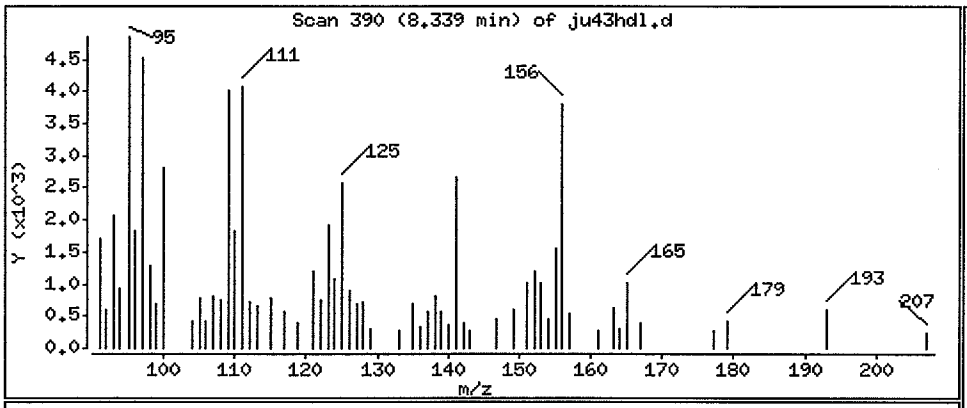
Operator: VTS

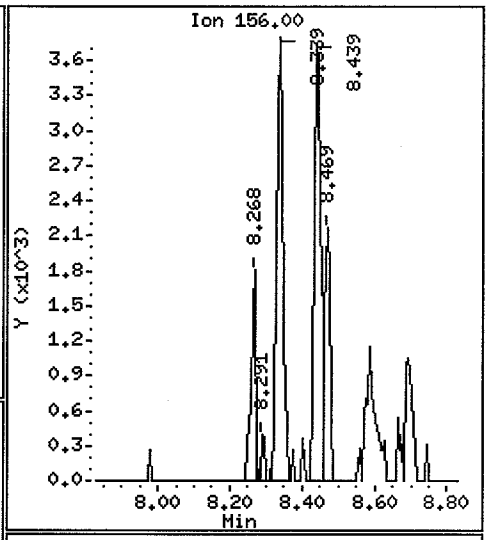
Column phase: ZB-5

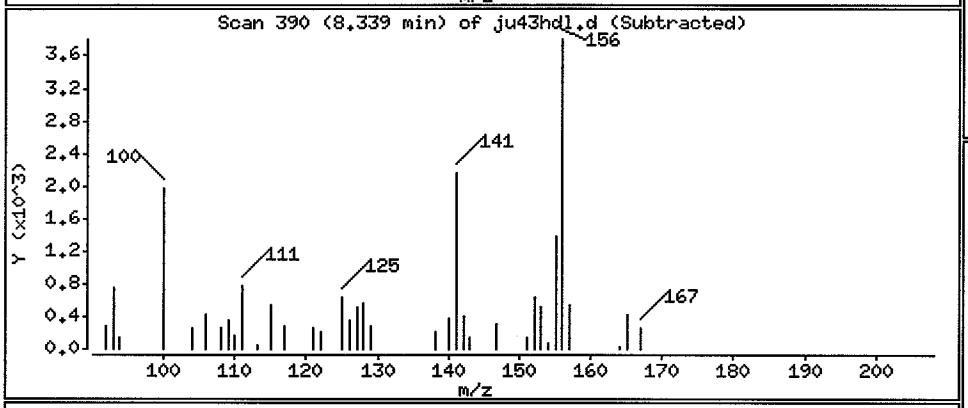
Column diameter: 0.25

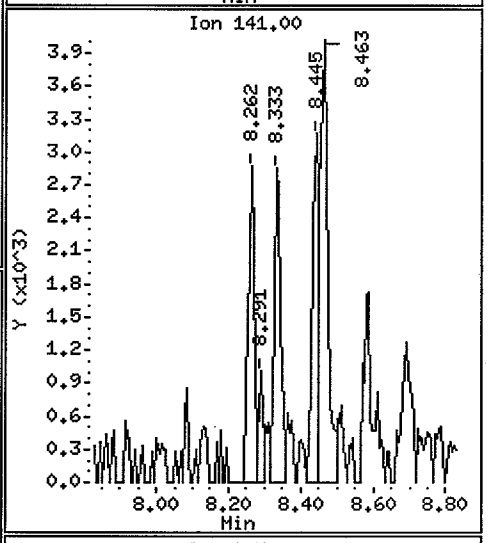
49 2,6-Dimethylnaphthalene

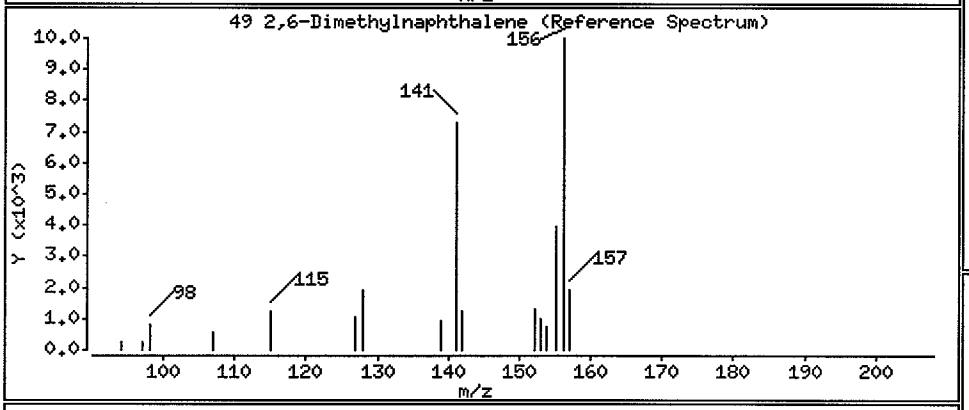
Concentration: 17.30 ug/kg

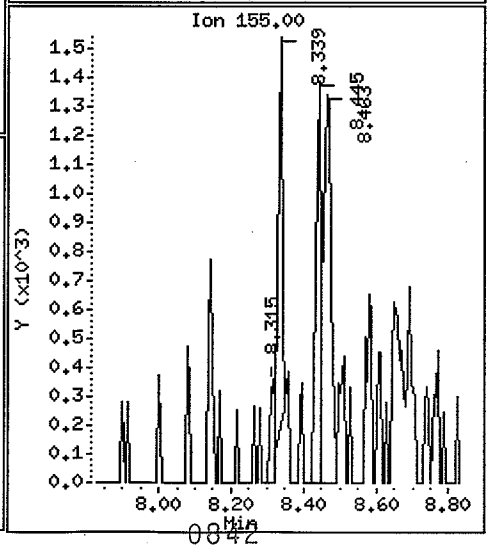


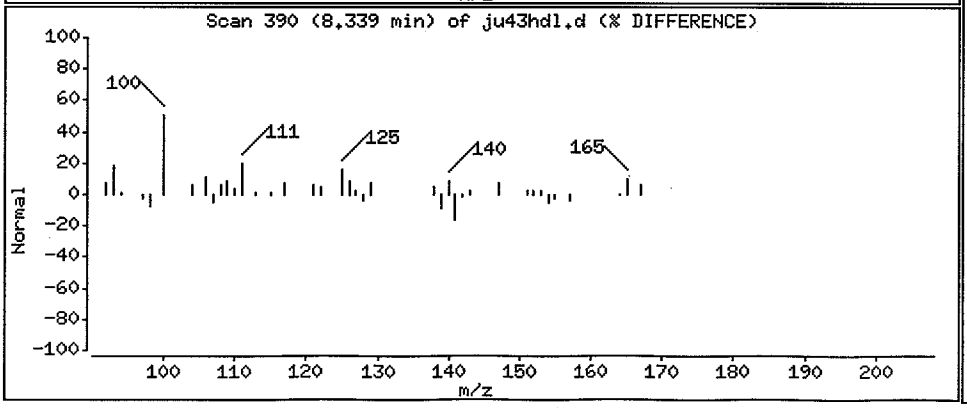












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

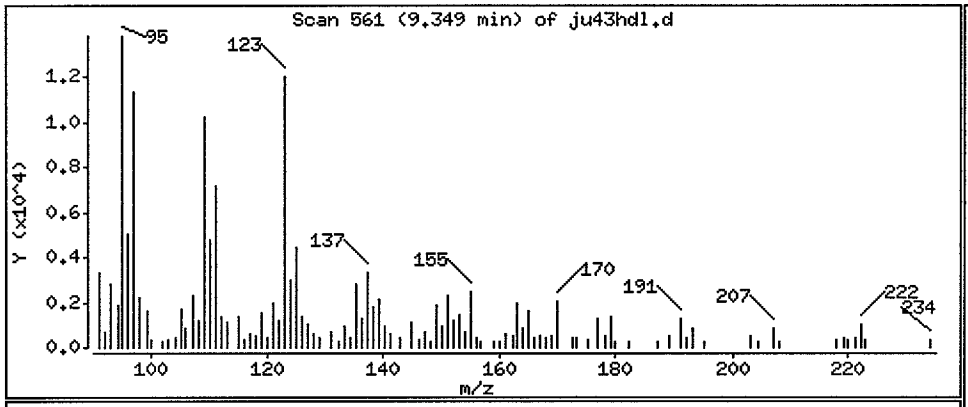
Operator: VTS

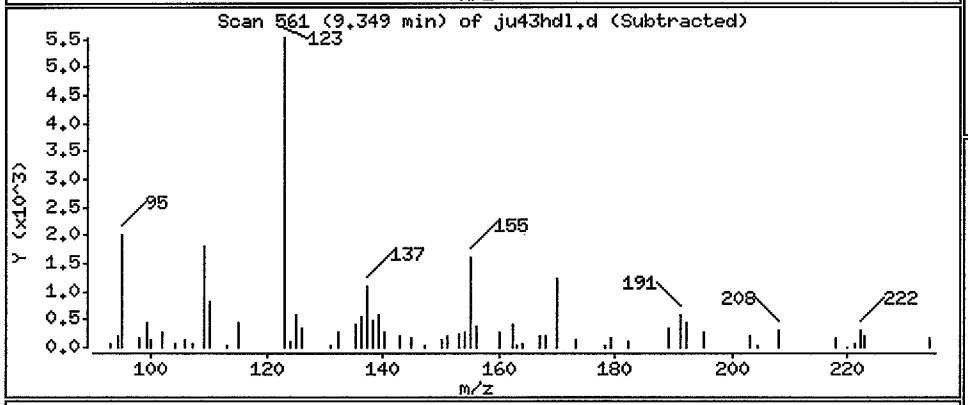
Column phase: ZB-5

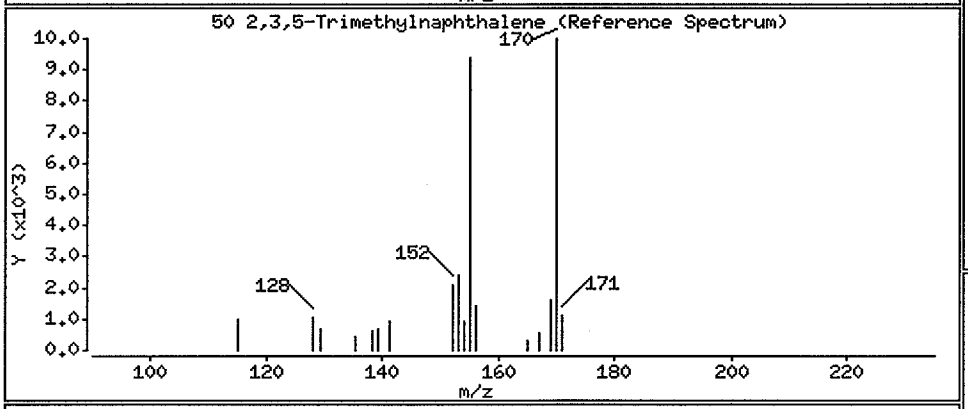
Column diameter: 0.25

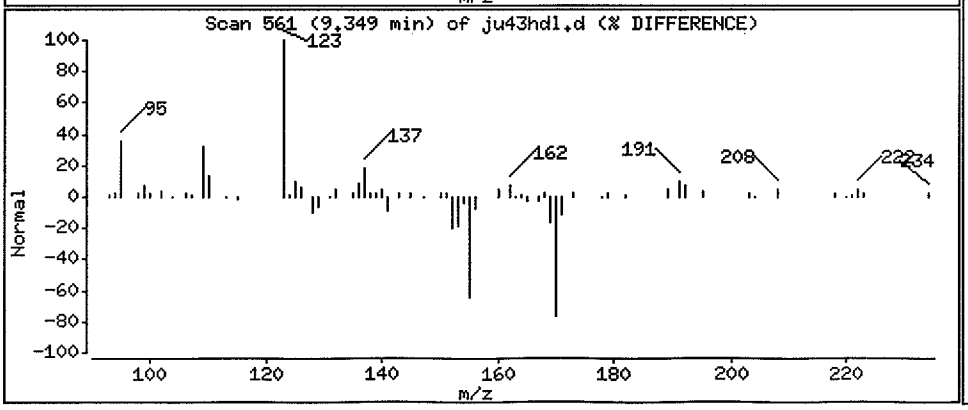
50 2,3,5-Trimethylnaphthalene

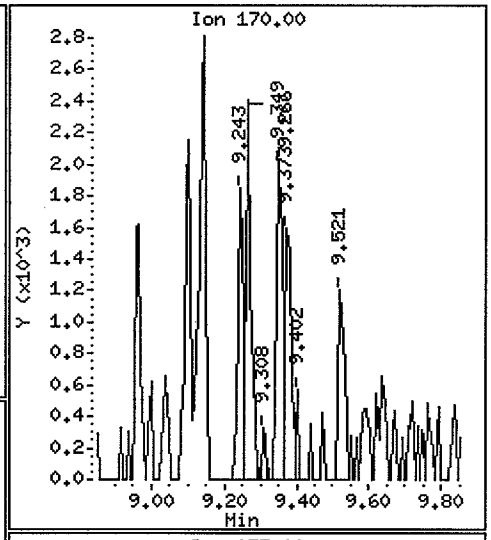
Concentration: 12.57 ug/kg

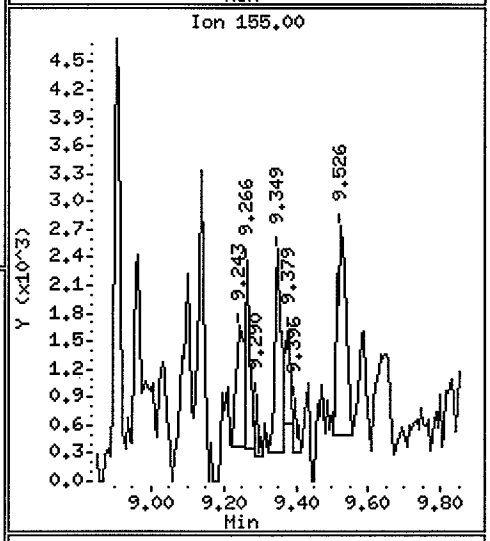


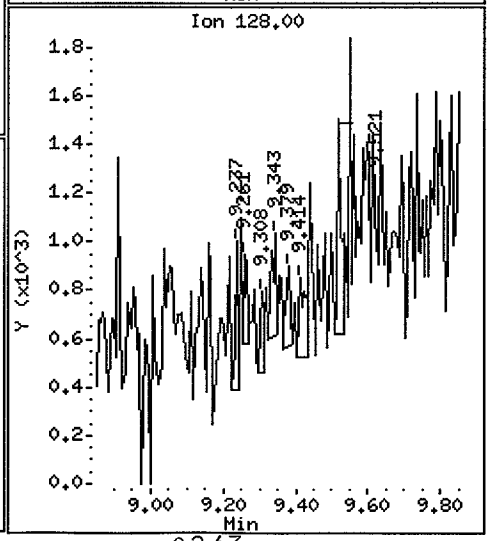












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

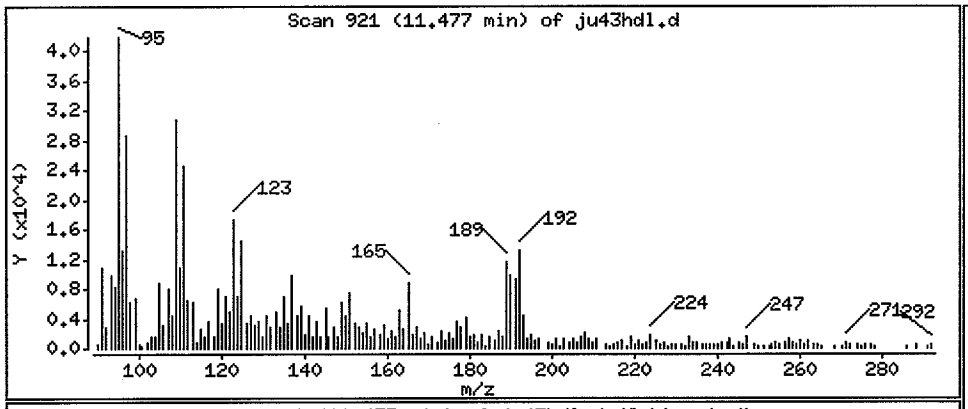
Operator: VTS

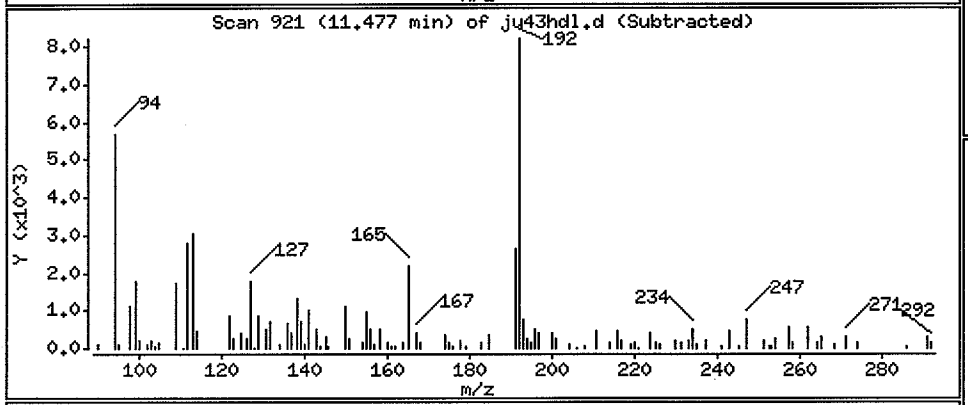
Column phase: ZB-5

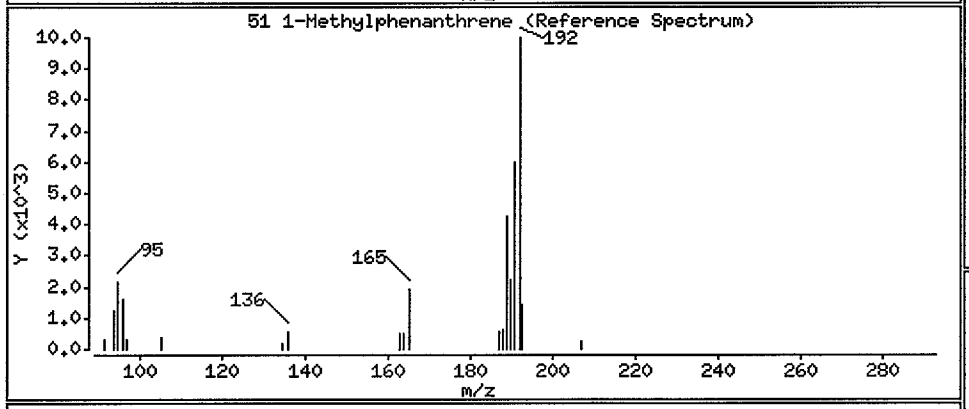
Column diameter: 0.25

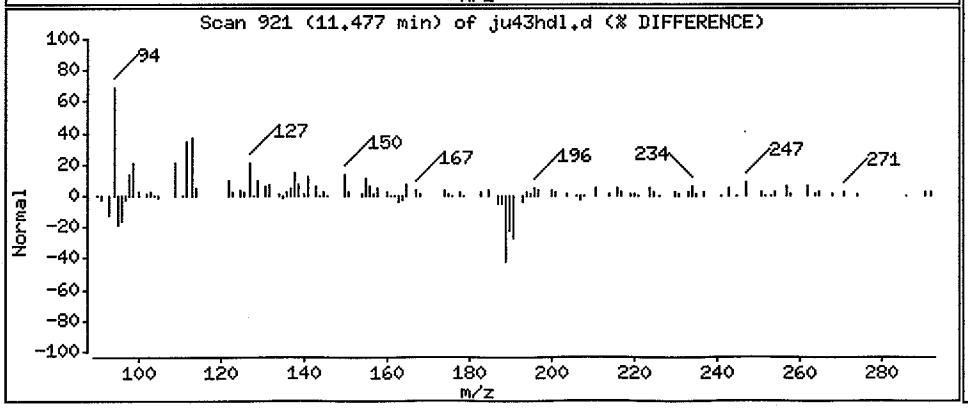
51 1-Methylphenanthrene

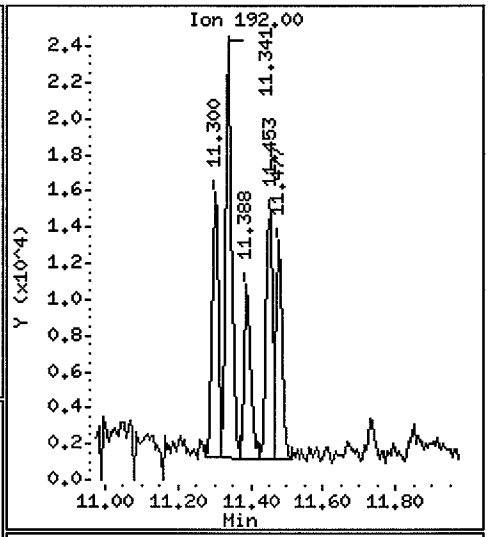
Concentration: 52.21 ug/kg

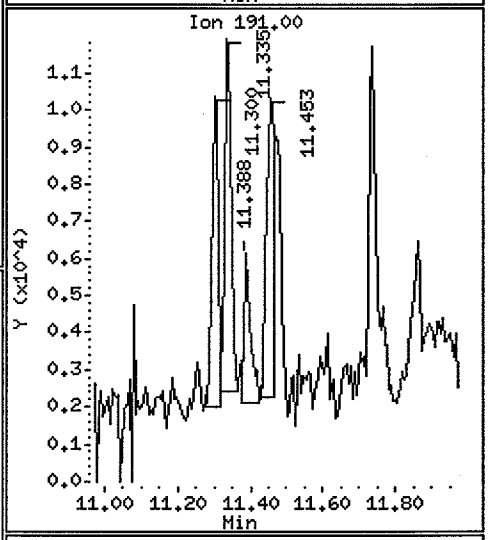


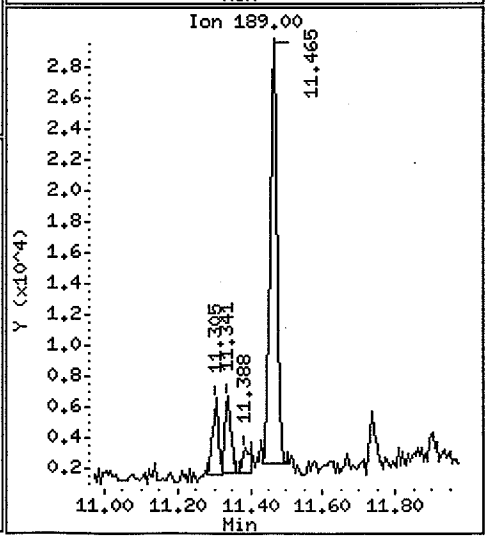












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

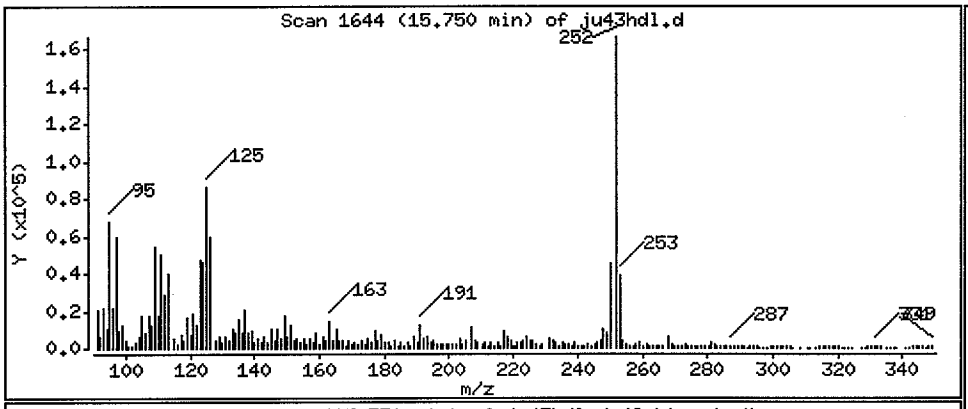
Operator: VTS

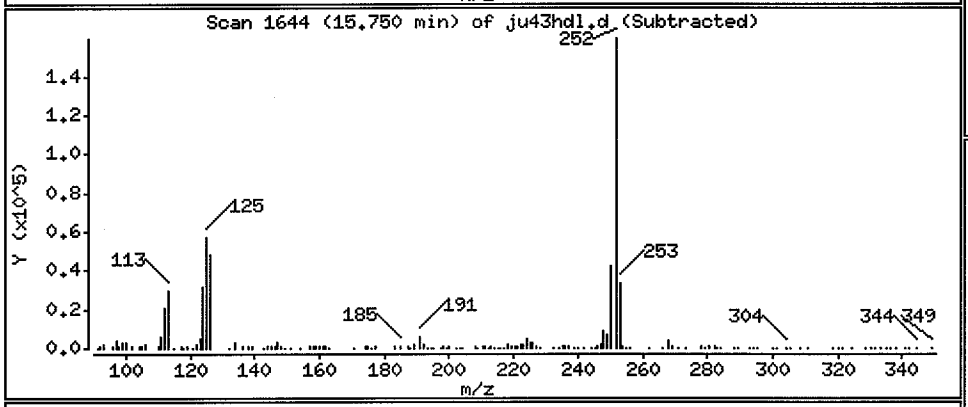
Column phase: ZB-5

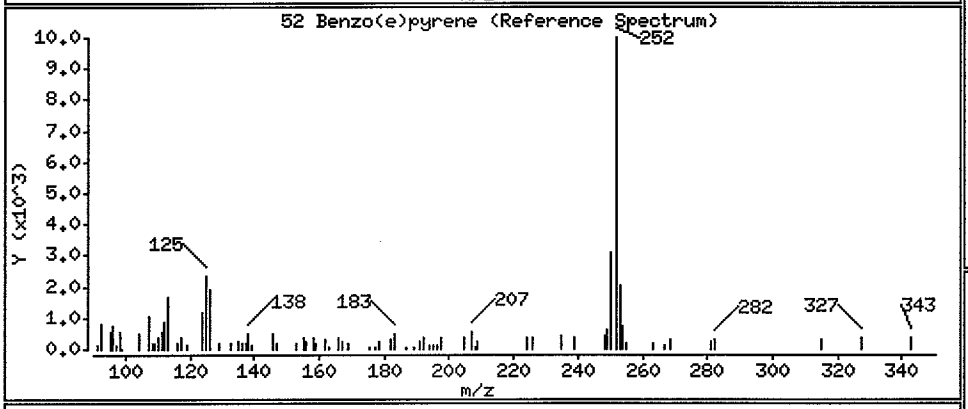
Column diameter: 0.25

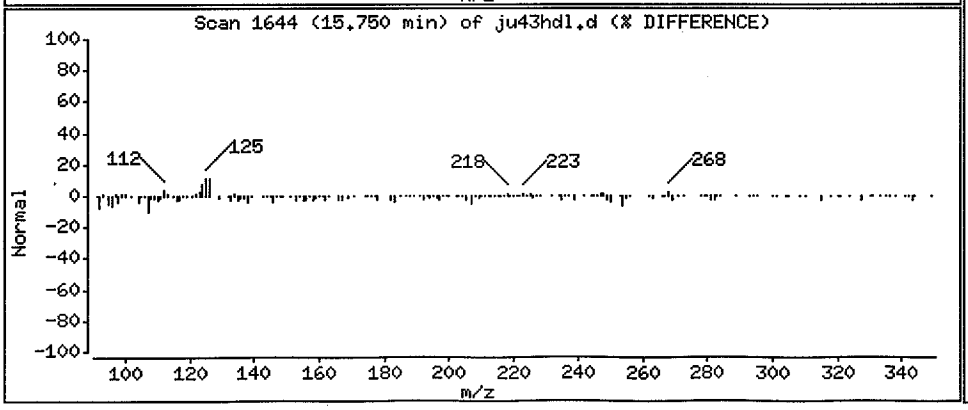
52 Benzo(e)pyrene

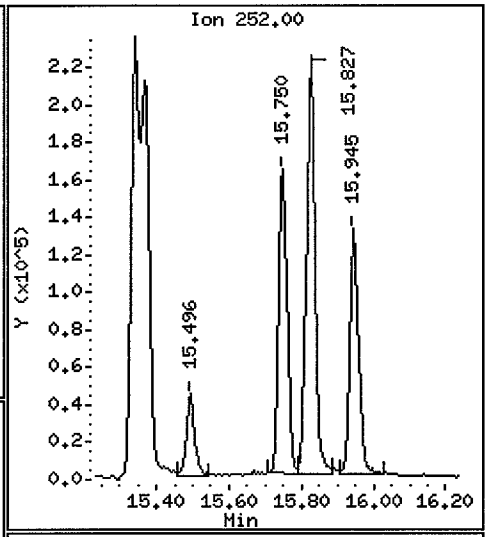
Concentration: 666.6 ug/kg

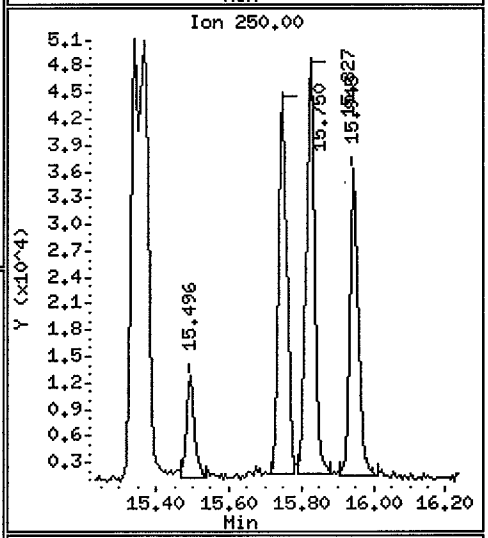


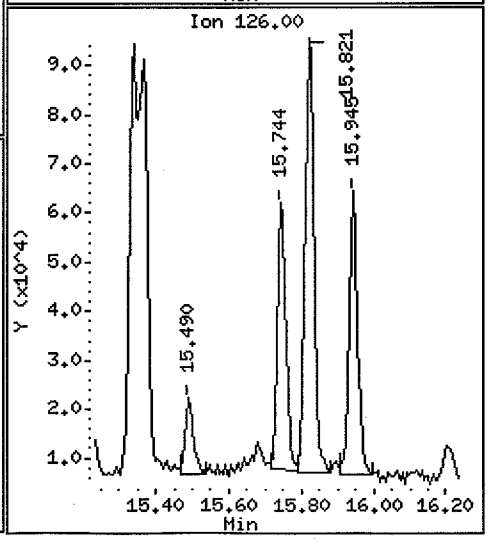












Data File: /chem3/nt1.i/20060914.b/ju43hdl.d

Date : 14-SEP-2006 09:02

Client ID: T4-B414-04-E

Instrument: nt1.i

Sample Info: JU43H,5

Volume Injected (uL): 1.0

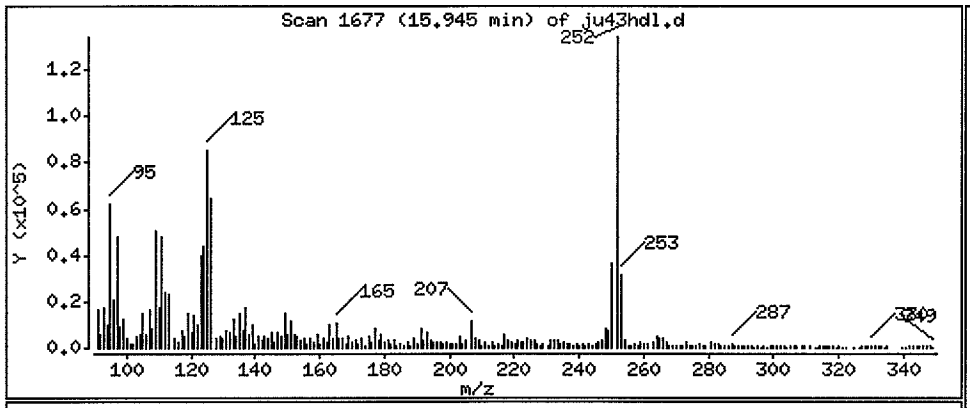
Operator: VTS

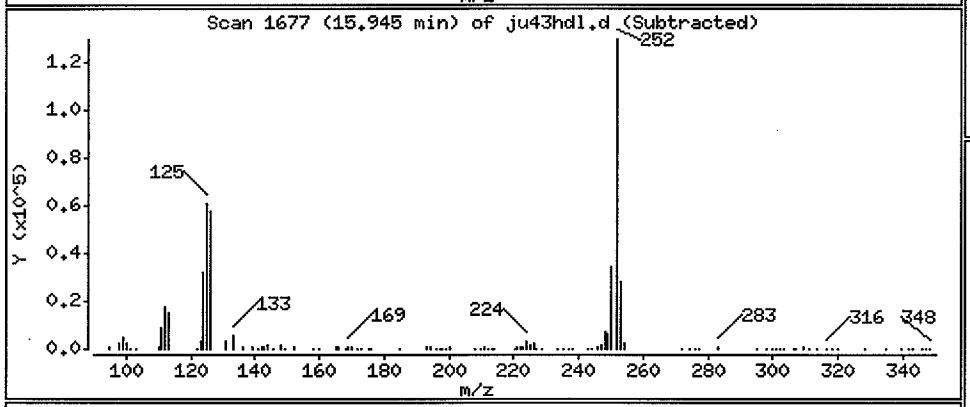
Column phase: ZB-5

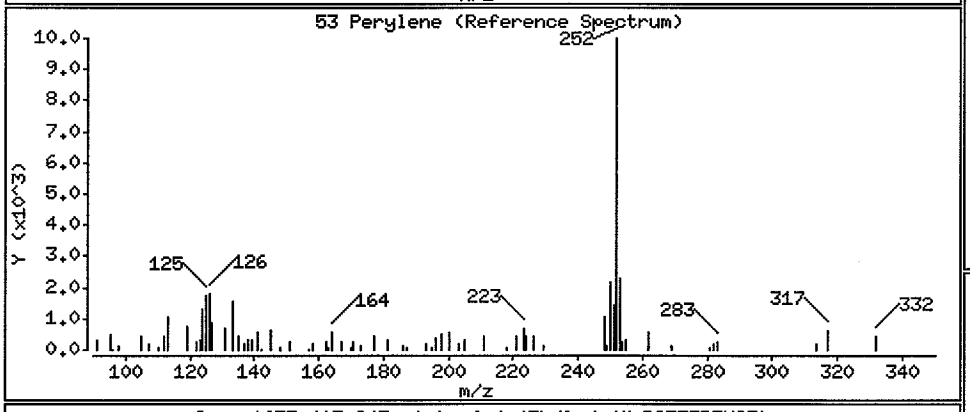
Column diameter: 0.25

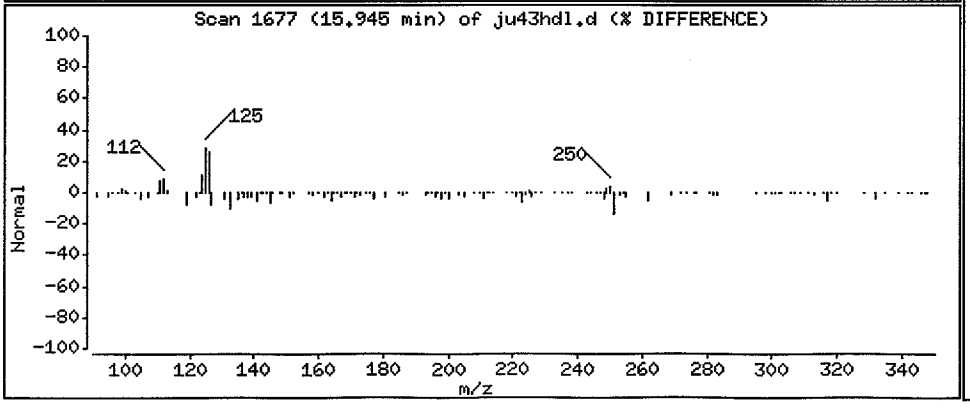
53 Perylene

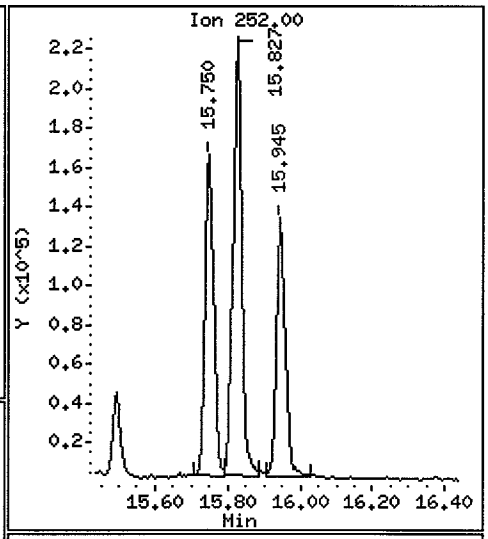
Concentration: 594.8 ug/kg

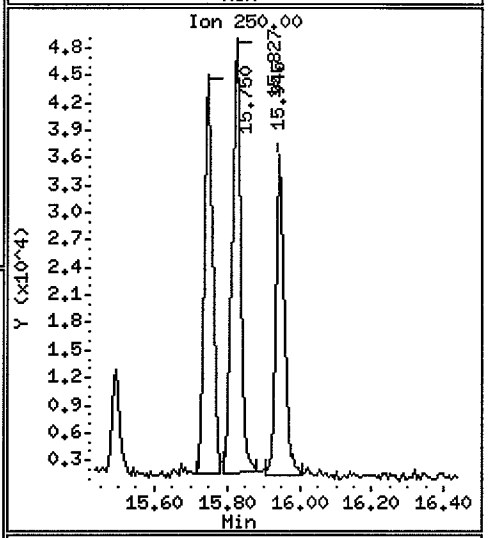


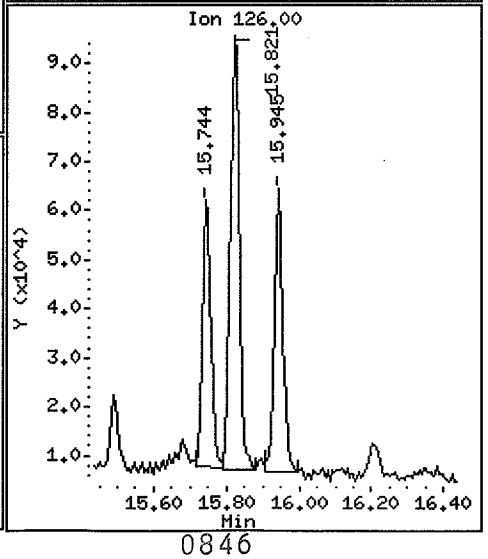












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-B414-04-F**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43I
LIMS ID: 06-15853
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 16:45
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 44.1%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	5.0	40	
91-57-6	2-Methylnaphthalene	5.0	22	
90-12-0	1-Methylnaphthalene	5.0	10	
208-96-8	Acenaphthylene	5.0	12	
83-32-9	Acenaphthene	5.0	62	
86-73-7	Fluorene	5.0	48	
85-01-8	Phenanthrene	5.0	300	
120-12-7	Anthracene	5.0	60	
206-44-0	Fluoranthene	5.0	540	E
129-00-0	Pyrene	5.0	480	
56-55-3	Benzo(a)anthracene	5.0	240	
218-01-9	Chrysene	5.0	340	
205-99-2	Benzo(b)fluoranthene	5.0	320	
207-08-9	Benzo(k)fluoranthene	5.0	280	
50-32-8	Benzo(a)pyrene	5.0	310	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	140	
53-70-3	Dibenz(a,h)anthracene	5.0	56	
191-24-2	Benzo(g,h,i)perylene	5.0	150	
198-55-0	Perylene	5.0	370	
92-52-4	Biphenyl	5.0	6.4	
581-42-0	2,6-Dimethylnaphthalene	5.0	16	
832-69-9	1-Methylphenanthrene	5.0	28	M
192-97-2	Benzo(e)pyrene	5.0	220	
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	15	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	86.0%
d14-Dibenzo(a,h)anthracen	68.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43i.d
Lab Smp Id: JU43I Client Smp ID: T4-B414-04-F
Inj Date : 12-SEP-2006 16:45
Operator : VTS Inst ID: nt1.i
Smp Info : JU43I
Misc Info : 06-15853
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.10000	Weight of sample extracted (g)
M	44.10000	% 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	6.813	6.808	(1.000)	379655	2.00000		
2 Naphthalene	128	6.837	6.832	(1.003)	146842	0.80505	39.78	
$ 3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	243171	2.58303	127.6	
4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	42202	0.43533	21.51	
5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	22544	0.21430	10.59	
7 Acenaphthylene	152	8.693	8.687	(0.980)	38616	0.25349	12.53	
* 8 Acenaphthene-d10	164	8.870	8.871	(1.000)	185425	2.00000		
9 Acenaphthene	153	8.911	8.906	(1.005)	115146	1.25149	61.85	
10 Dibenzofuran	168	9.101	9.095	(1.026)	64861	~~0.49603~~	24.51	NR
11 Fluorene	166	9.520	9.521	(1.073)	96125	0.96294	47.59	
* 15 Phenanthrene-d10	188	10.684	10.679	(1.000)	230996	2.00000		
16 Phenanthrene	178	10.714	10.709	(1.003)	770949	6.15699	304.3	
17 Anthracene	178	10.767	10.762	(1.008)	152401	1.20678	59.64	
19 Fluoranthene	202	12.209	12.198	(1.143)	1158823	10.8422	535.8	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.499	12.488	(0.892)	1155313	9.78720	483.7	
	22 Benzo(a)anthracene	228	13.982	13.965	(0.998)	486690	4.84002	239.2	
*	23 Chrysene-d12	240	14.006	13.989	(1.000)	167722	2.00000		
	24 Chrysene	228	14.035	14.018	(1.002)	640093	6.77405	334.8	
	28 Benzo(b)fluoranthene	252	15.365	15.336	(0.964)	586597	6.55618	324.0	
	29 Benzo(k)fluoranthene	252	15.389	15.366	(0.966)	525439	5.62302	277.9	(M)
	30 Benzo(a)pyrene	252	15.850	15.821	(0.995)	504767	6.25490	309.1	
*	31 Perylene-d12	264	15.933	15.898	(1.000)	158000	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.853	17.813	(1.121)	253152	2.92211	144.4	
$	32 Dibenz(a,h)anthrancene-d14	292	17.777	17.736	(1.116)	105376	2.03522	100.6	
	34 Dibenz(a,h)anthracene	278	17.836	17.807	(1.119)	80254	1.14297	56.48	
	35 Benzo(g,h,i)perylene	276	18.421	18.380	(1.156)	235187	3.07180	151.8	
	48 Biphenyl	154	8.143	8.138	(0.918)	15001	0.13046	6.447	
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	27446	0.31598	15.62	
	50 2,3,5-Trimethylnaphthalene	170	9.349	9.355	(1.054)	20872	0.30420	15.03	
	51 1-Methylphenanthrene	192	11.488	11.477	(0.820)	43990	0.55568	27.46	M
	52 Benzo(e)pyrene	252	15.773	15.744	(0.990)	400264	4.45217	220.0	
	53 Perylene	252	15.974	15.939	(1.003)	626038	7.46272	368.8	

QC Flag Legend

M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43i.d
Lab Smp Id: JU43I
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15853

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-B414-04-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	379655	11.16
8 Acenaphthene-d10	169375	84688	338750	185425	9.48
15 Phenanthrene-d10	232185	116092	464370	230996	-0.51
23 Chrysene-d12	179856	89928	359712	167722	-6.75
31 Perylene-d12	175373	87686	350746	158000	-9.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	14.01	0.12
31 Perylene-d12	15.90	15.40	16.40	15.93	0.22

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

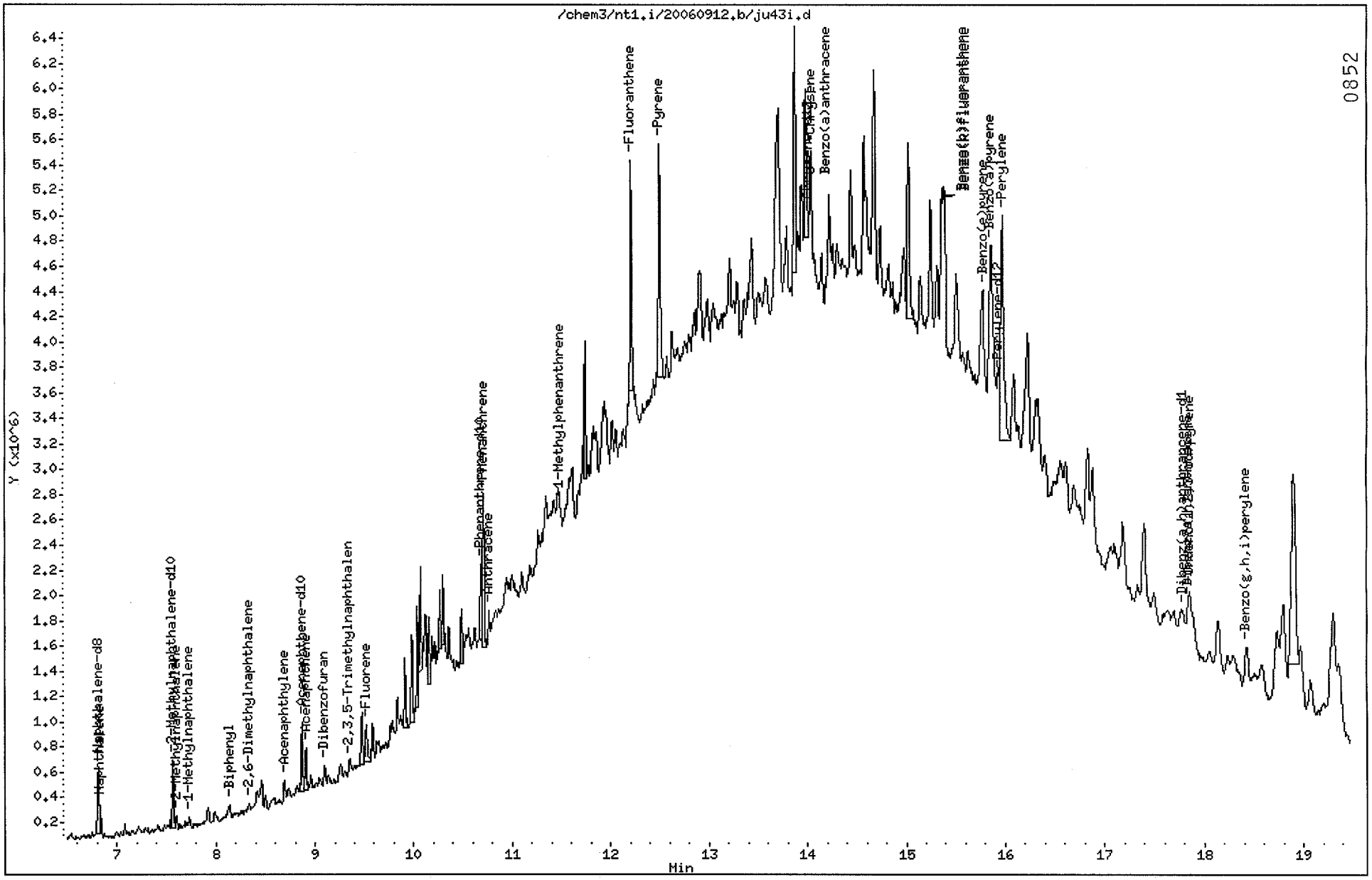
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43I
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15853

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-04-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.3	127.6	86.10	32-97
$ 32 Dibenz(a,h)anthran	148.3	100.6	67.84	21-105

Data File: /chem3/nt1.i/20060912.b/ju43i.d
Date : 12-SEP-2006 16:45
Client ID: T4-B414-04-F
Sample Info: JU43I
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

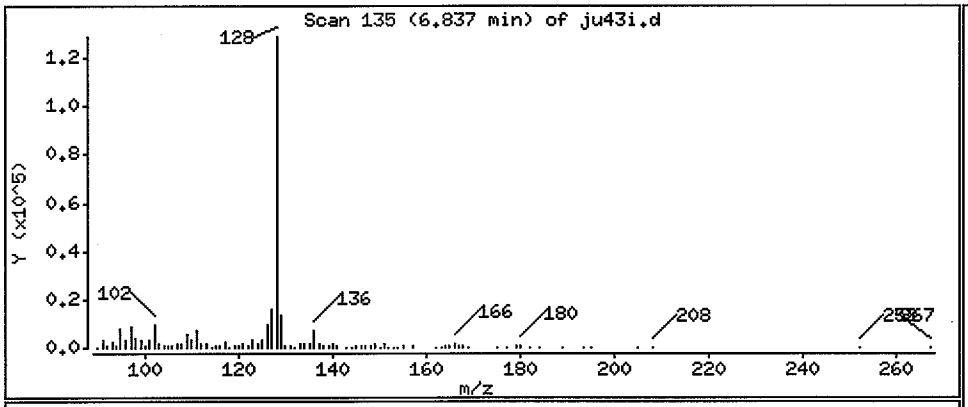
Operator: VTS

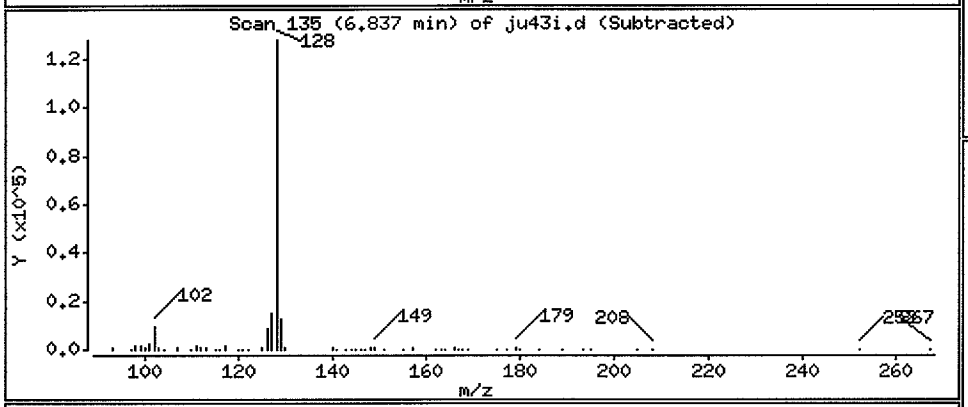
Column phase: ZB-5

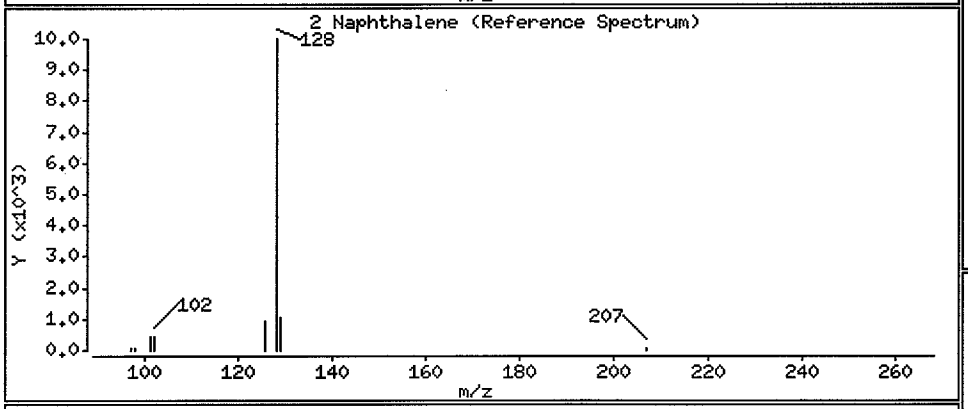
Column diameter: 0.25

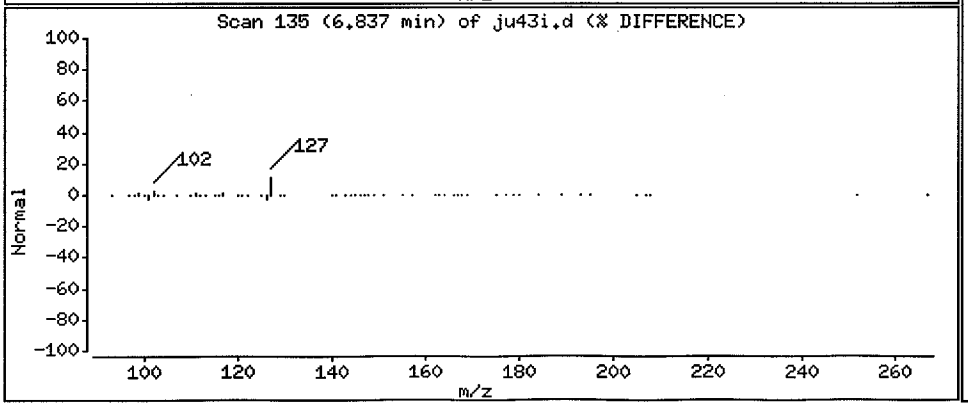
2 Naphthalene

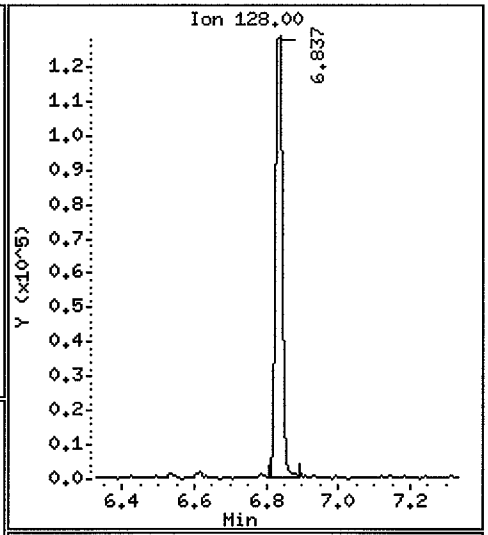
Concentration: 39.78 ug/kg

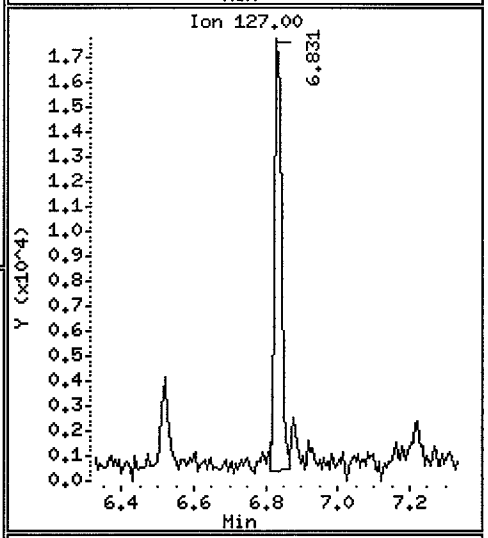


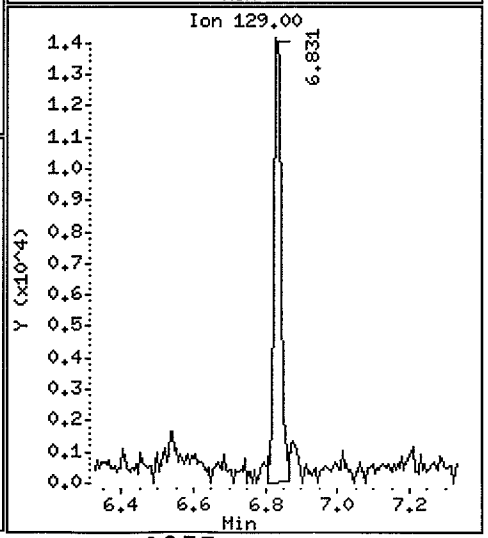












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

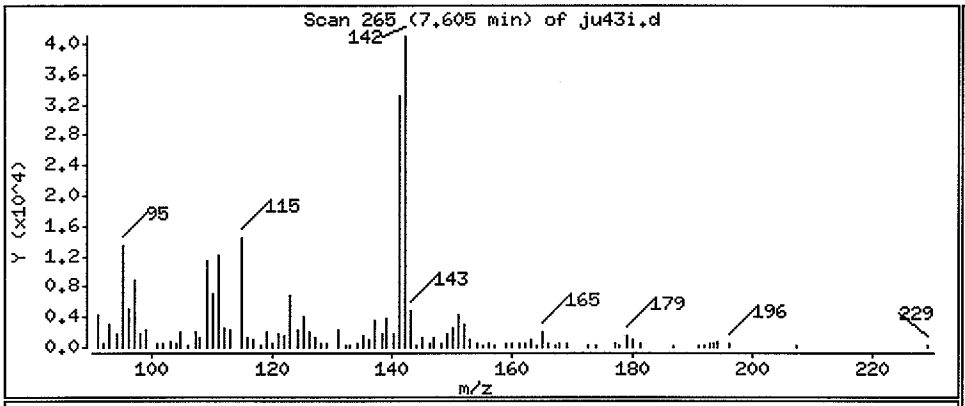
Operator: VTS

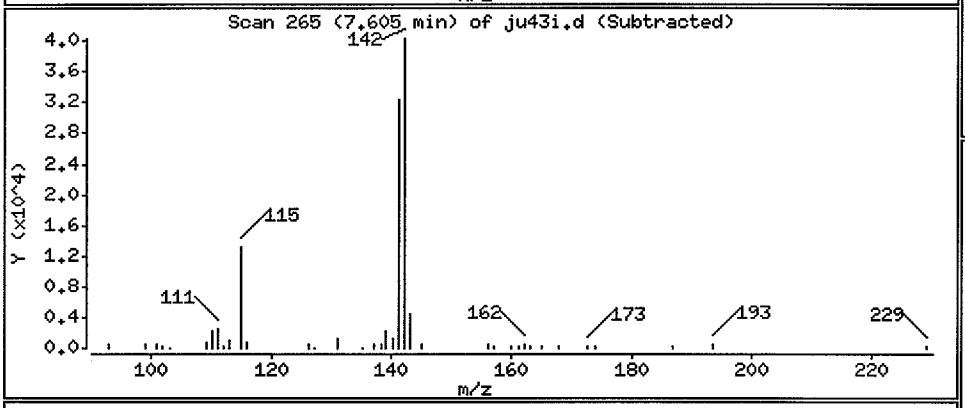
Column phase: ZB-5

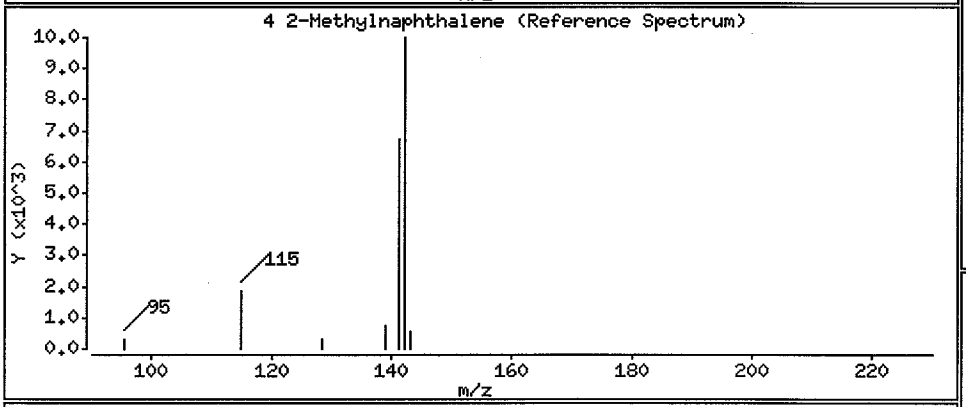
Column diameter: 0.25

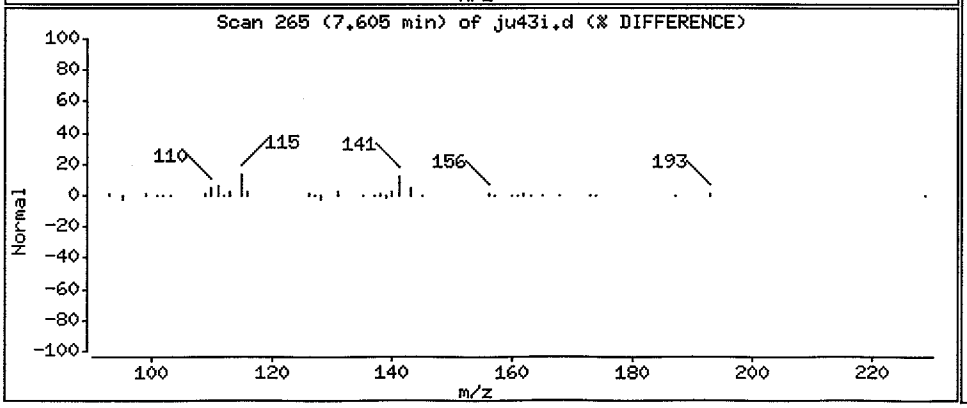
4 2-Methylnaphthalene

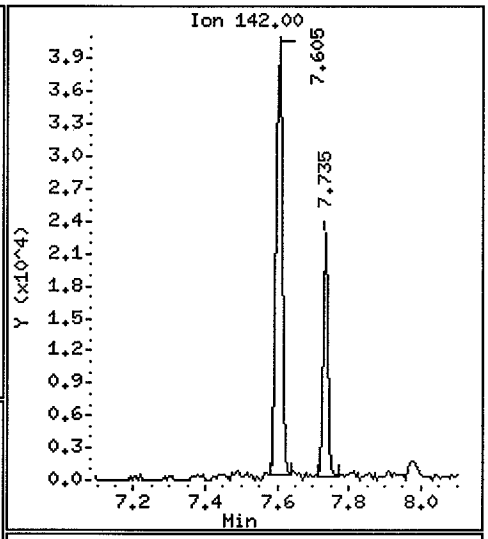
Concentration: 21.51 ug/kg

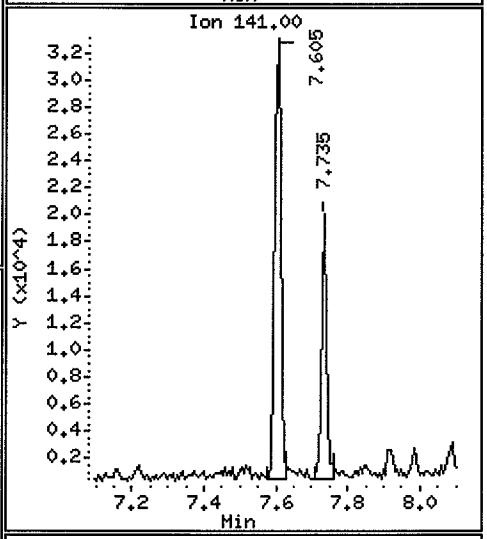


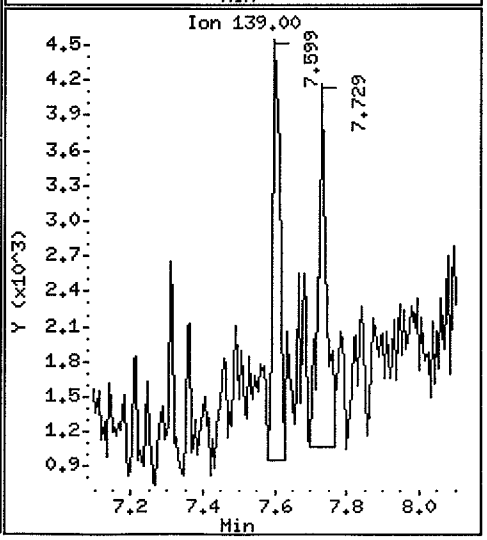












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

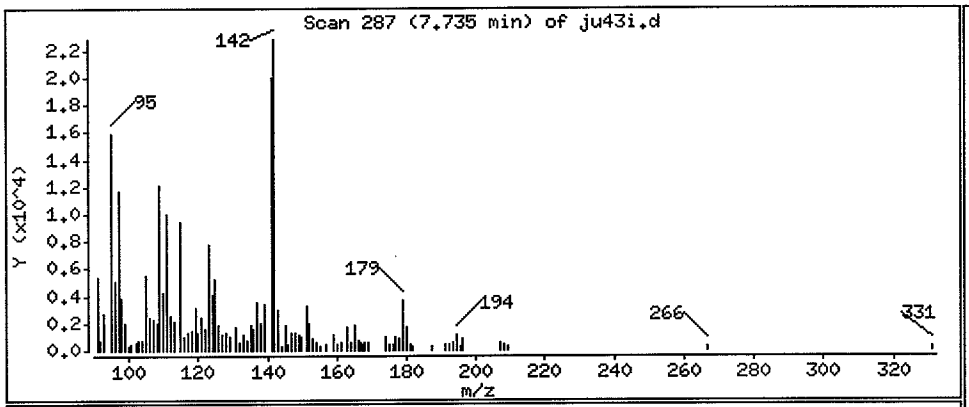
Operator: VTS

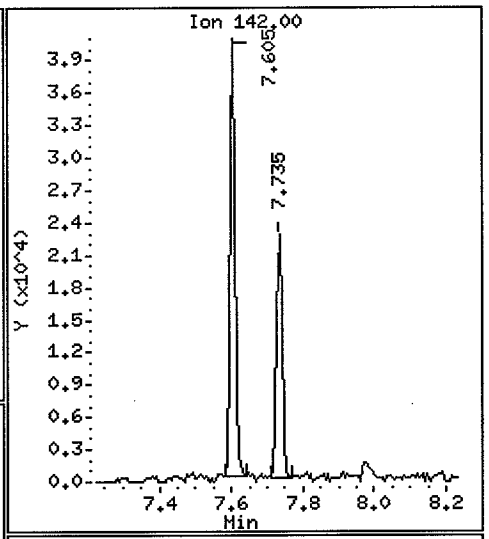
Column phase: ZB-5

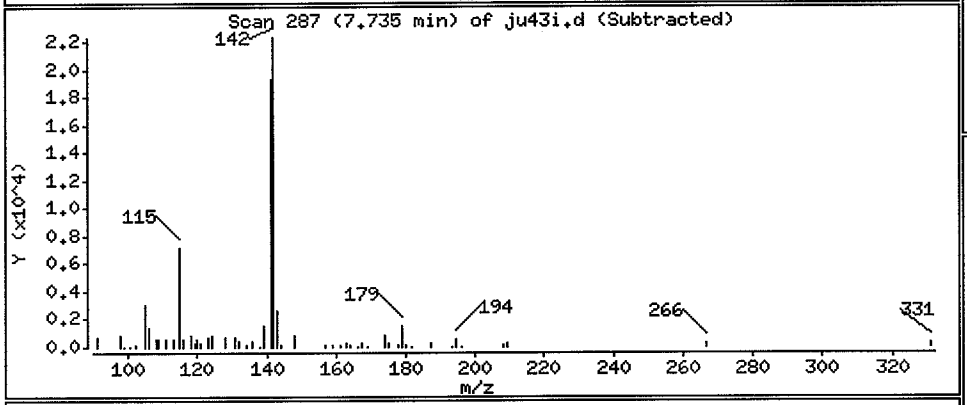
Column diameter: 0.25

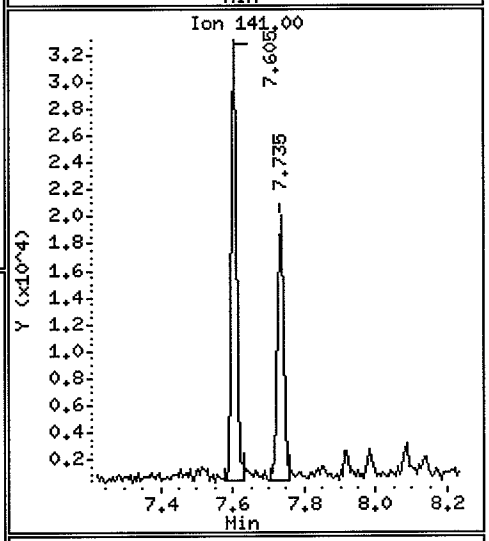
5 1-Methylnaphthalene

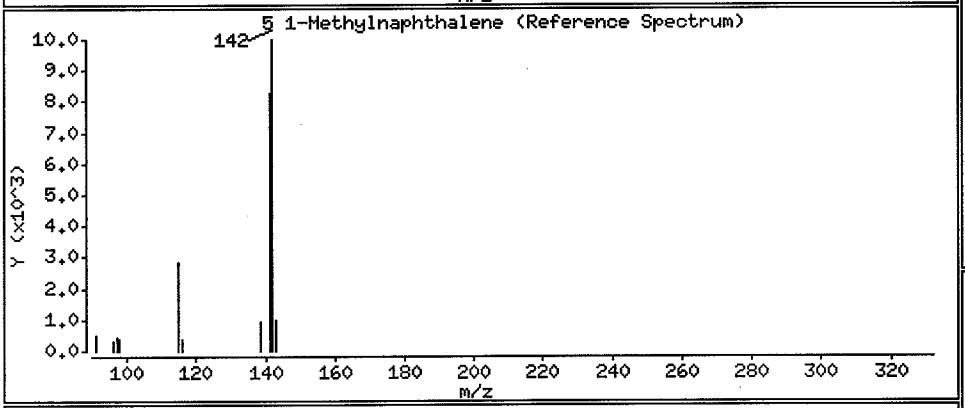
Concentration: 10.59 ug/kg

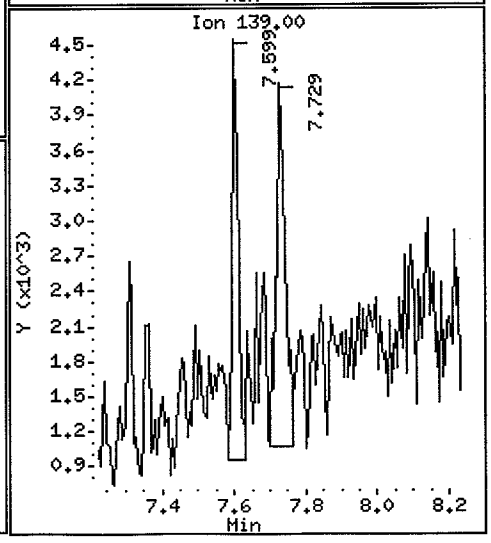


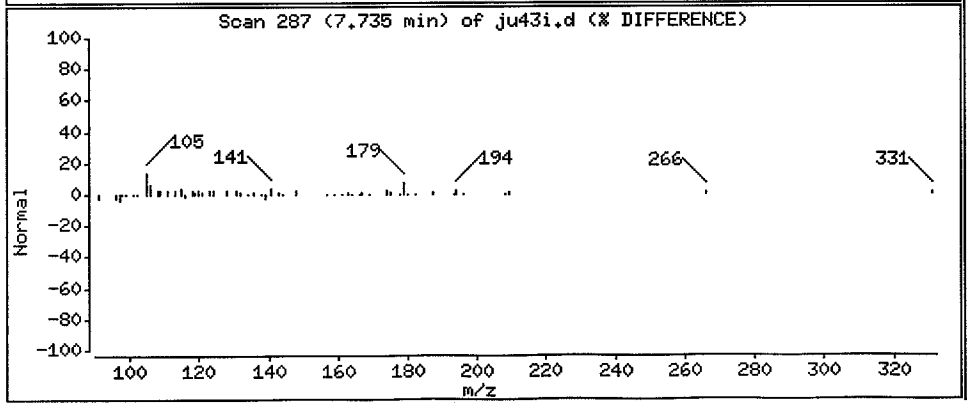












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

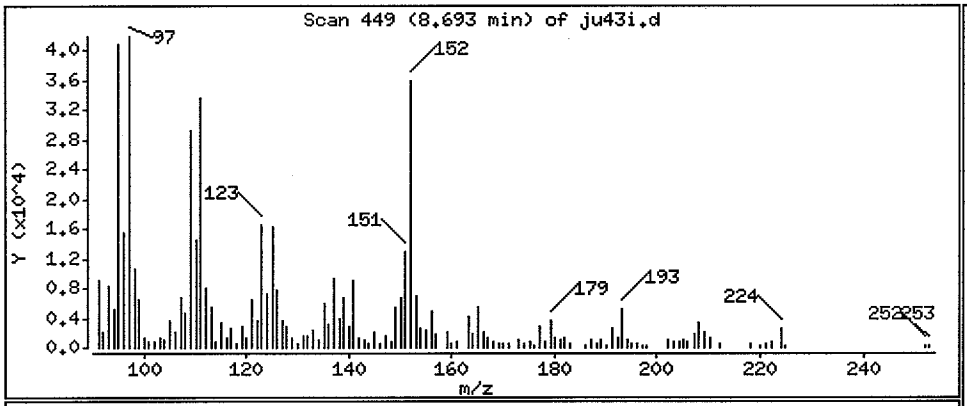
Operator: VTS

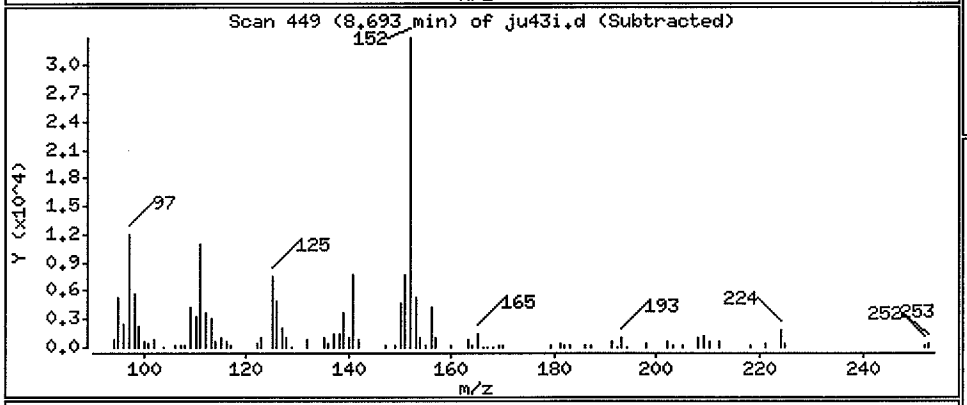
Column phase: ZB-5

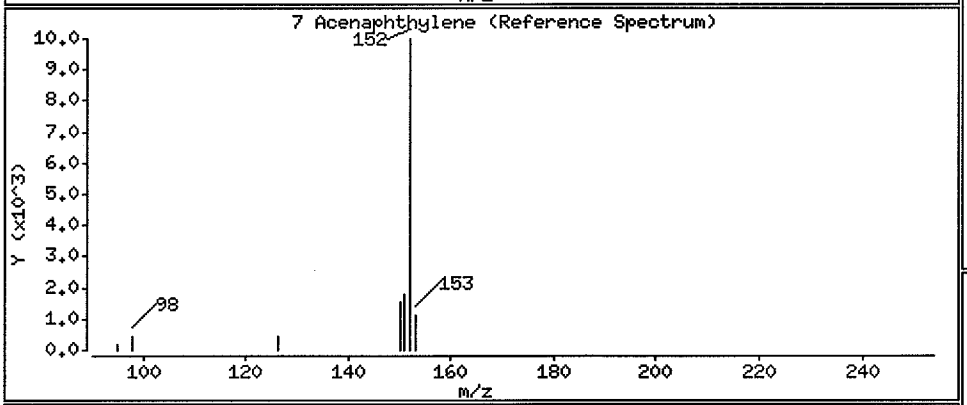
Column diameter: 0.25

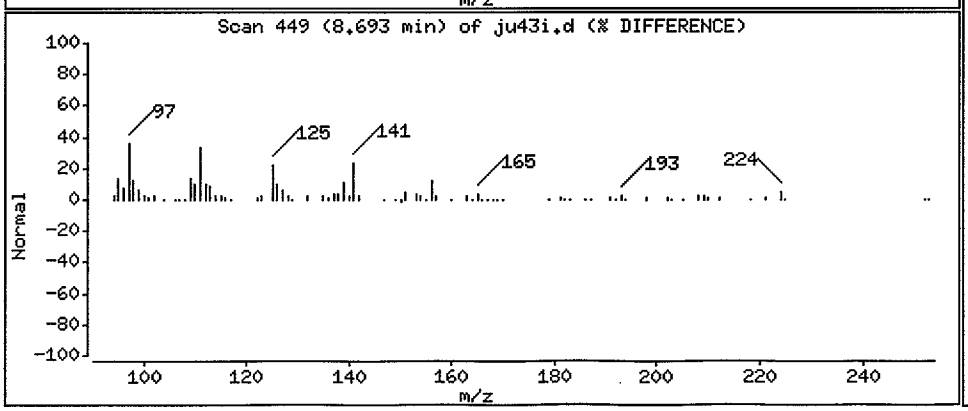
7 Acenaphthylene

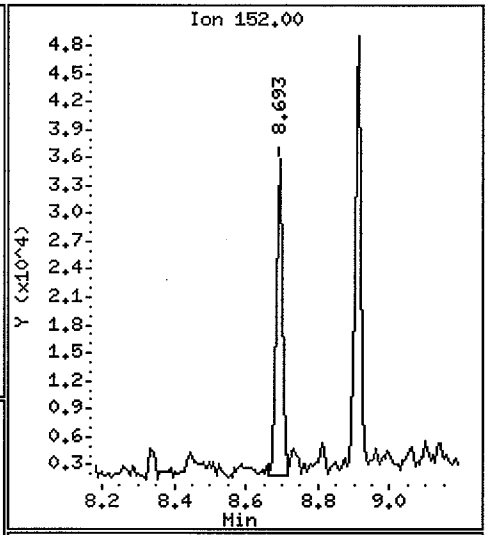
Concentration: 12.53 ug/kg

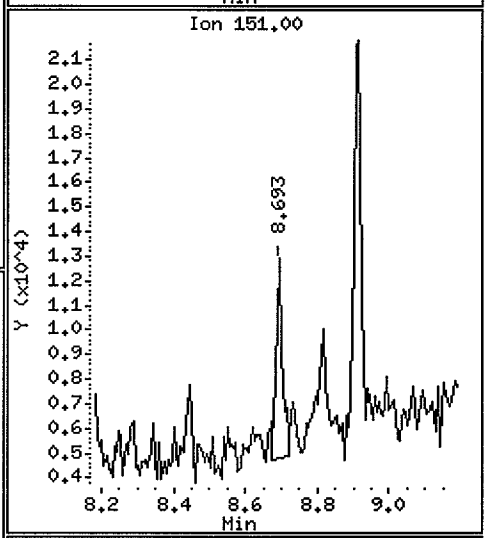


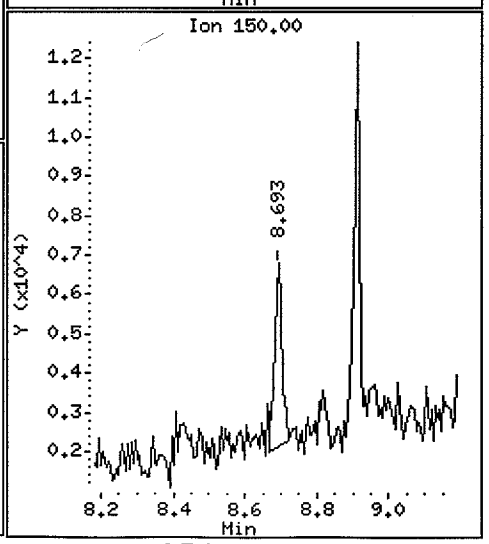












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

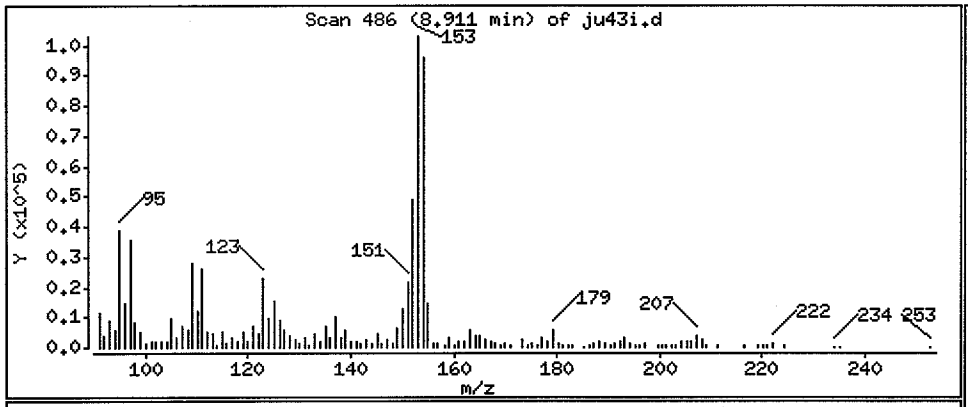
Operator: VTS

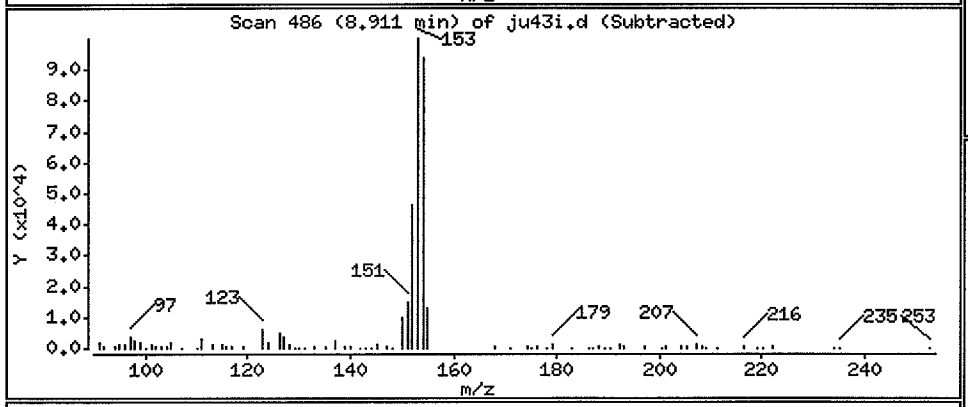
Column phase: ZB-5

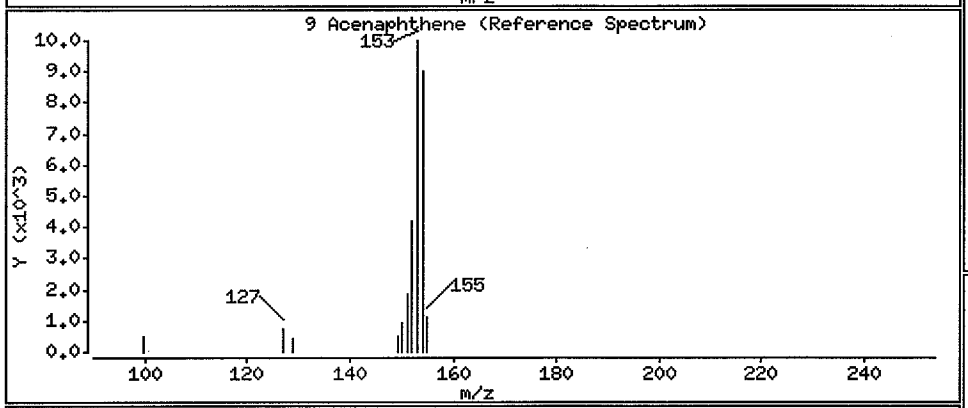
Column diameter: 0.25

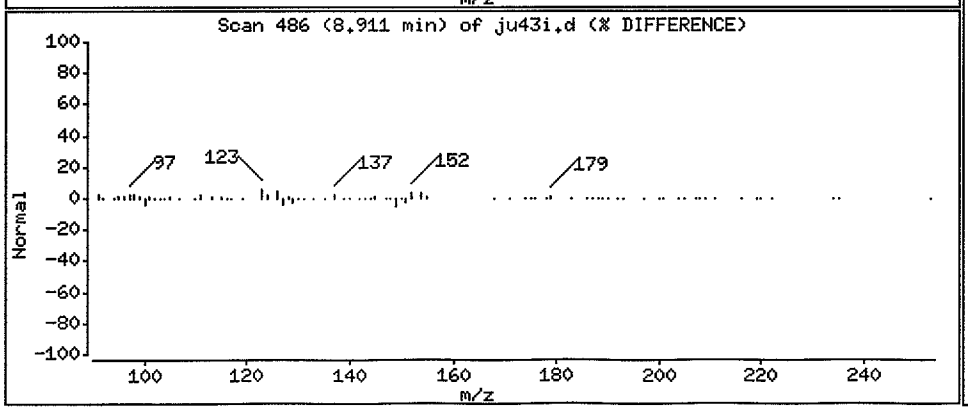
9 Acenaphthene

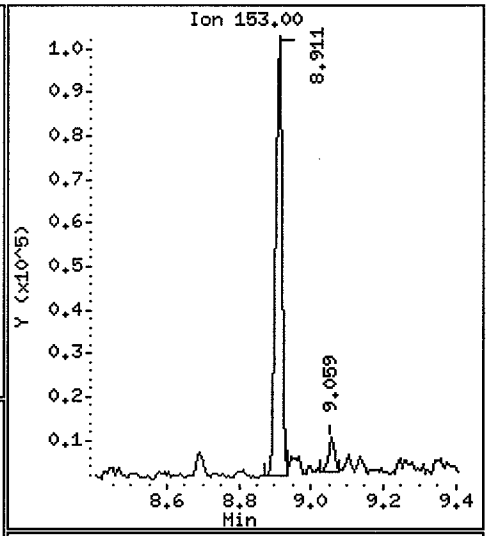
Concentration: 61.85 ug/kg

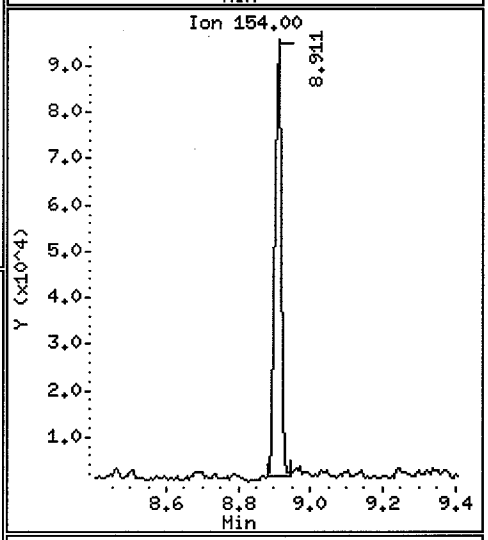


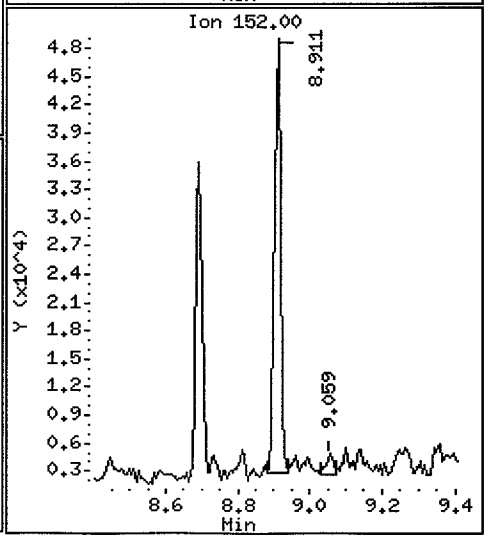












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

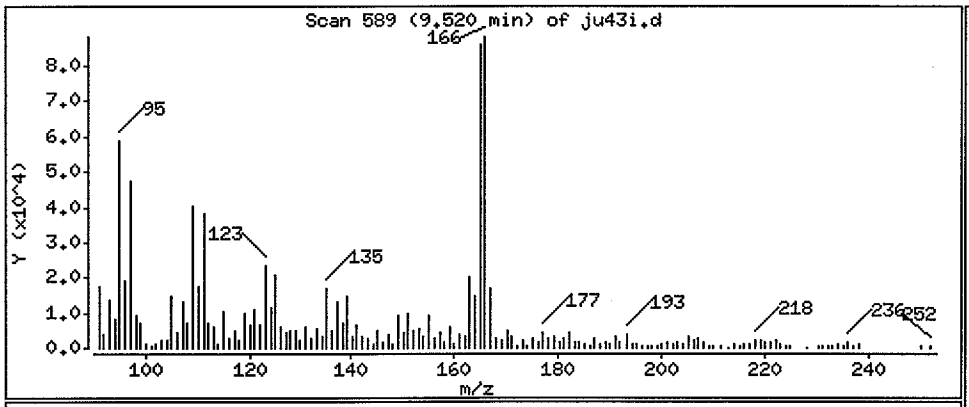
Operator: VTS

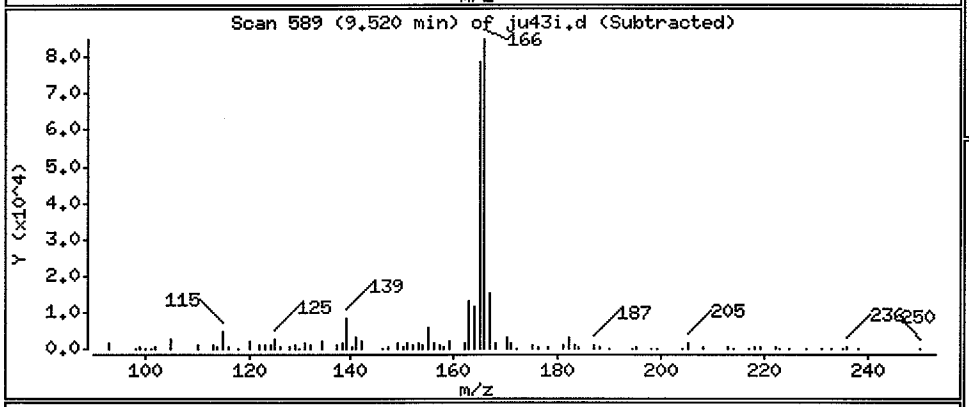
Column phase: ZB-5

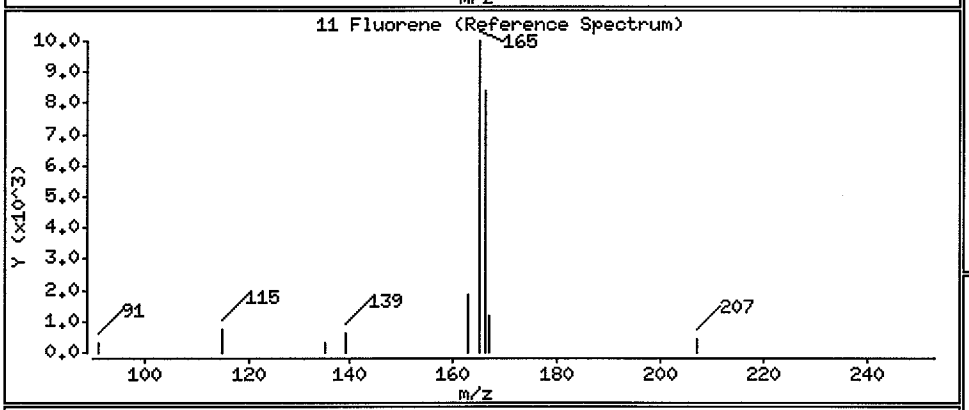
Column diameter: 0.25

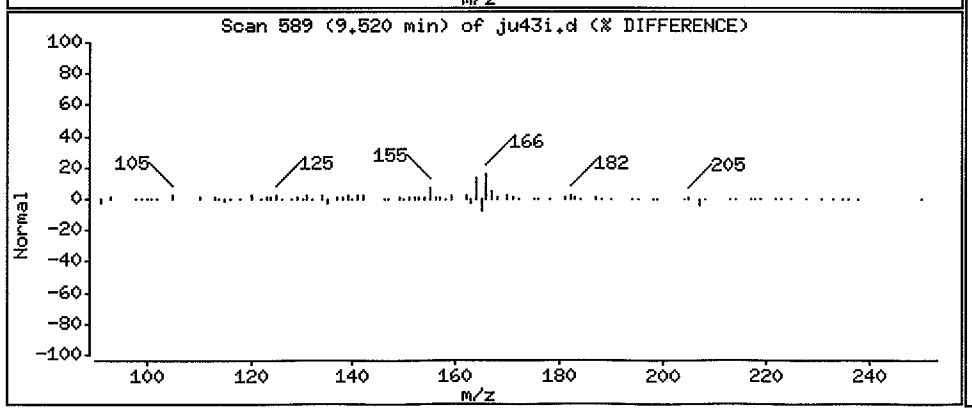
11 Fluorene

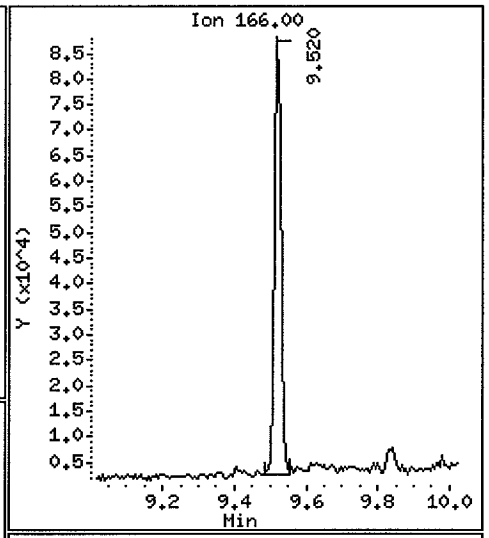
Concentration: 47.59 ug/kg

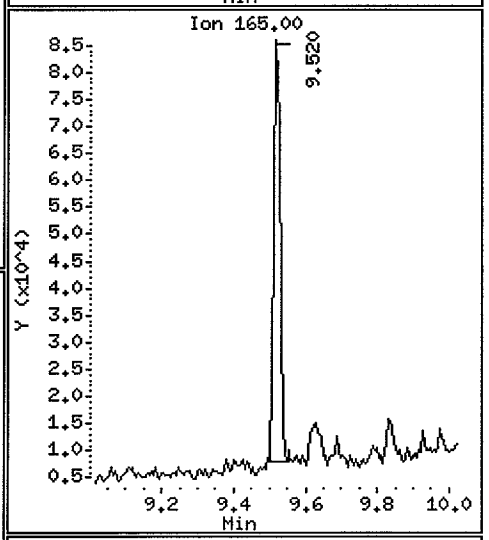


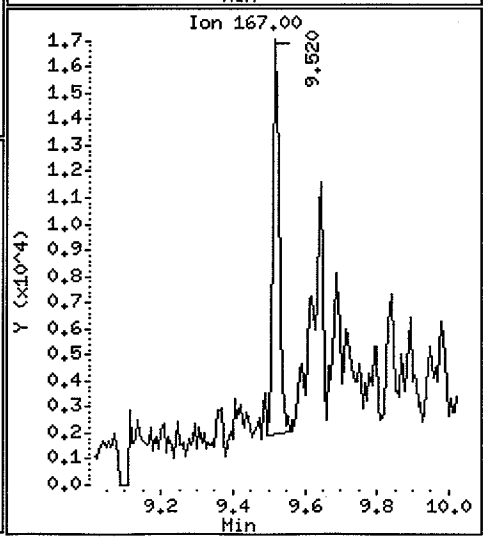












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

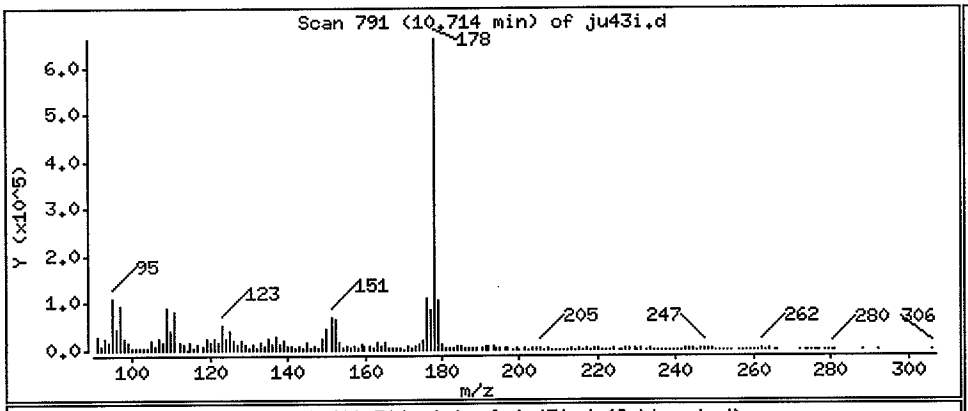
Operator: VTS

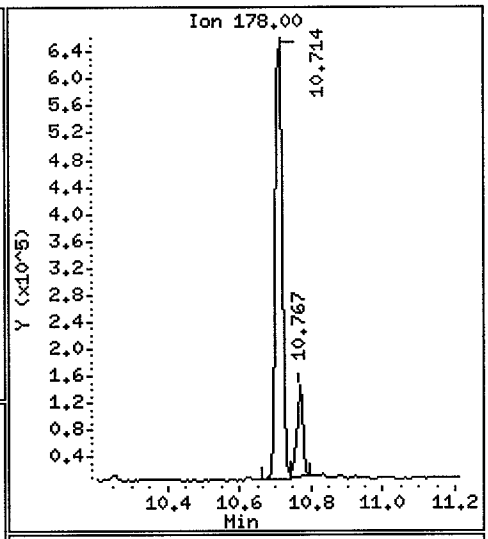
Column phase: ZB-5

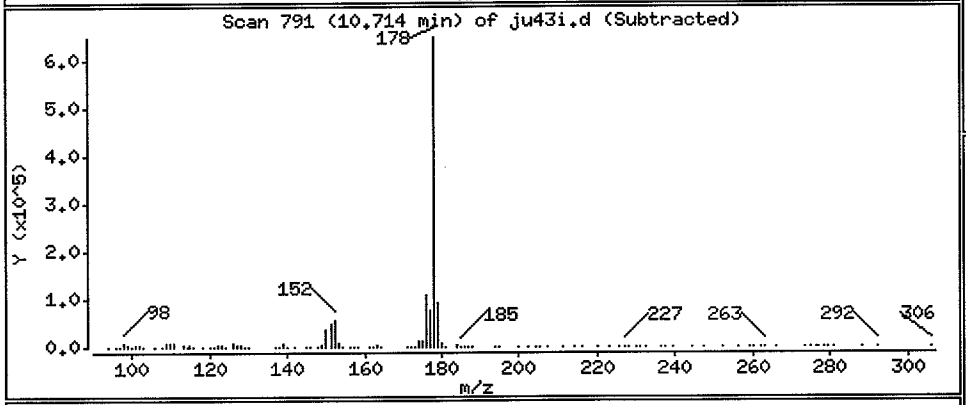
Column diameter: 0.25

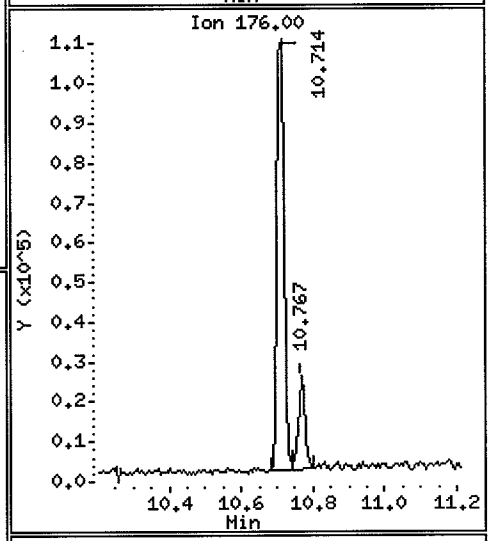
16 Phenanthrene

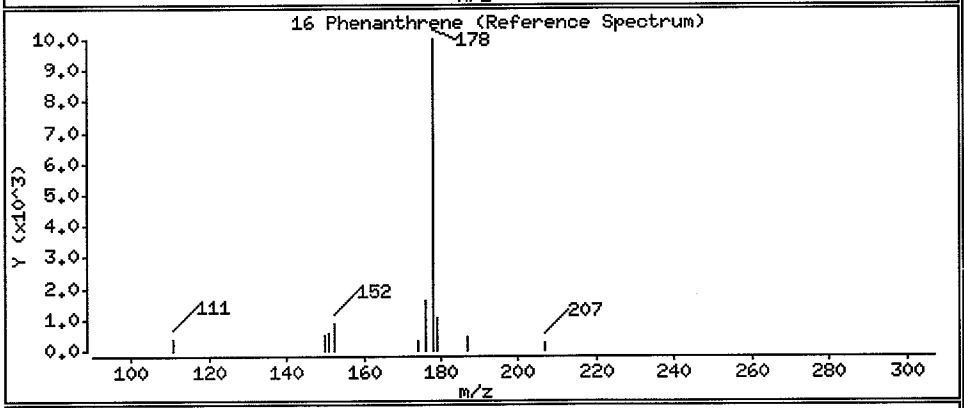
Concentration: 304.3 ug/kg

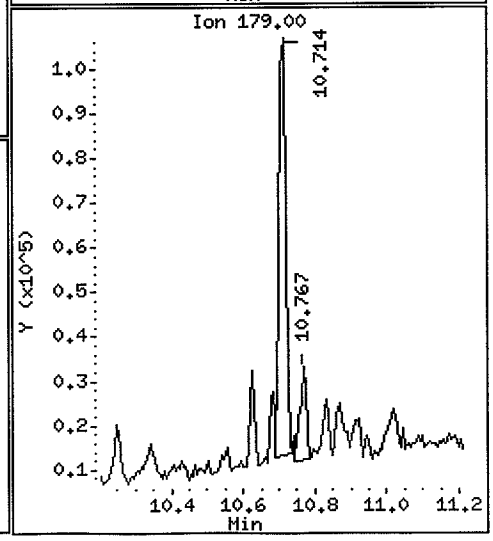


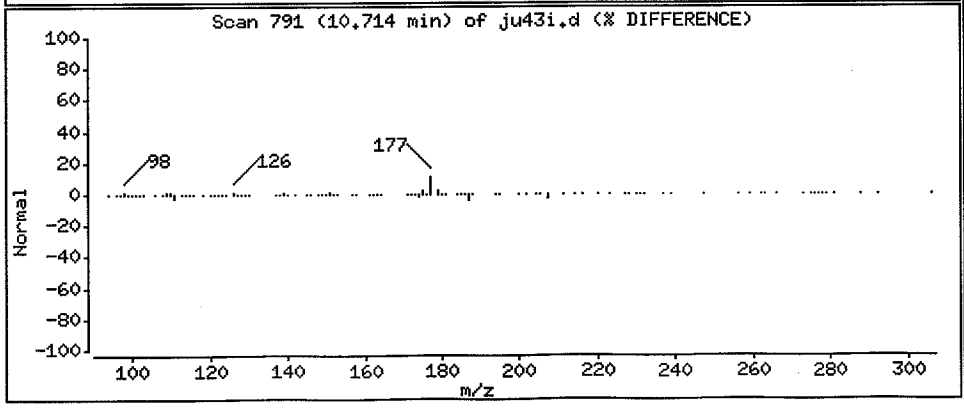












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

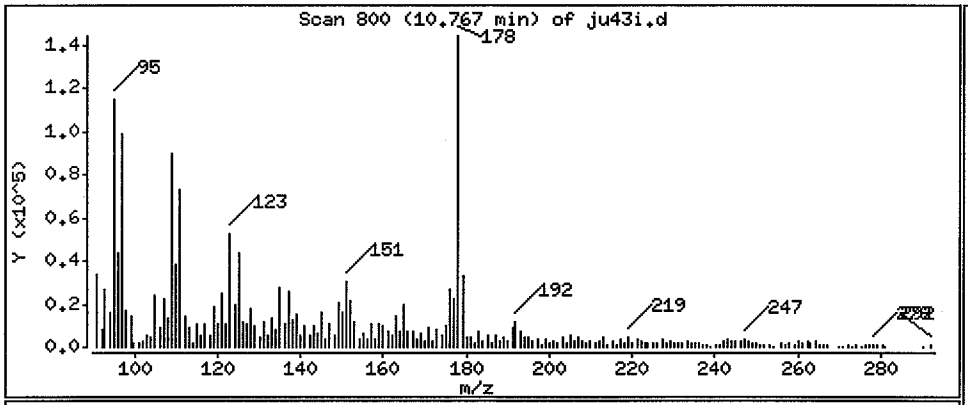
Operator: VTS

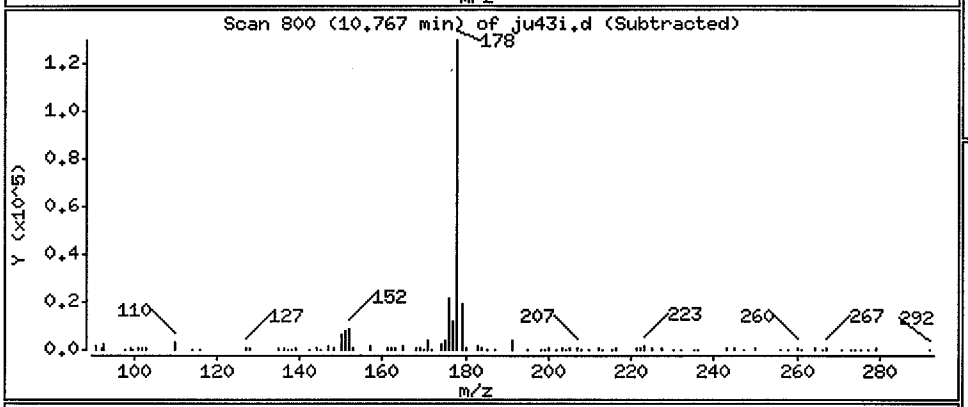
Column phase: ZB-5

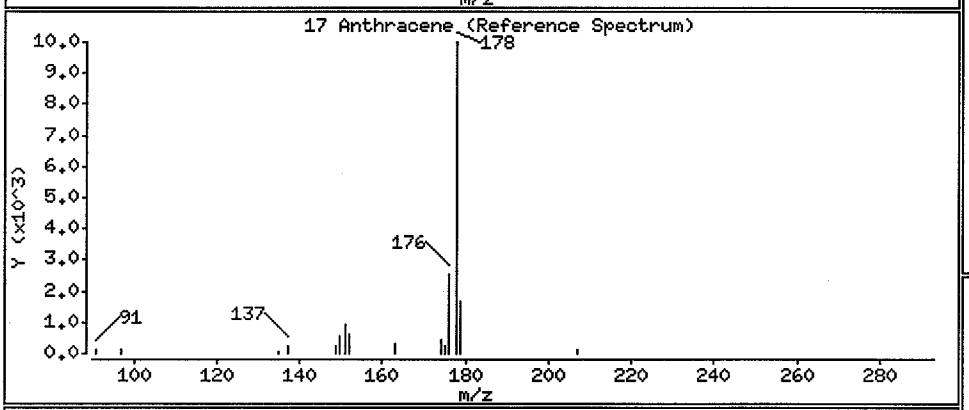
Column diameter: 0.25

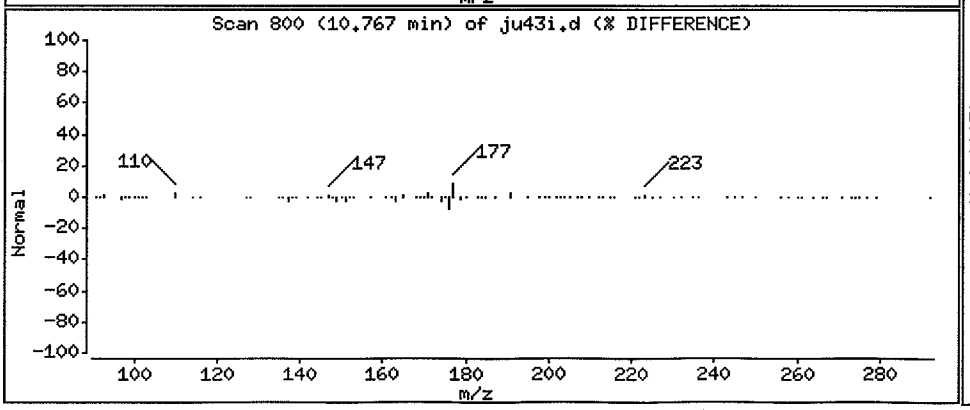
17 Anthracene

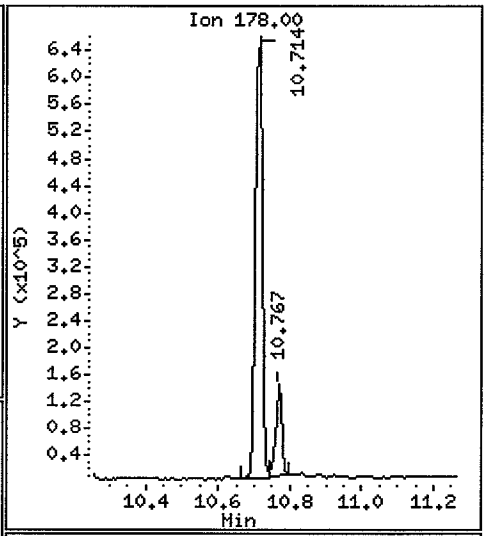
Concentration: 59.64 ug/kg

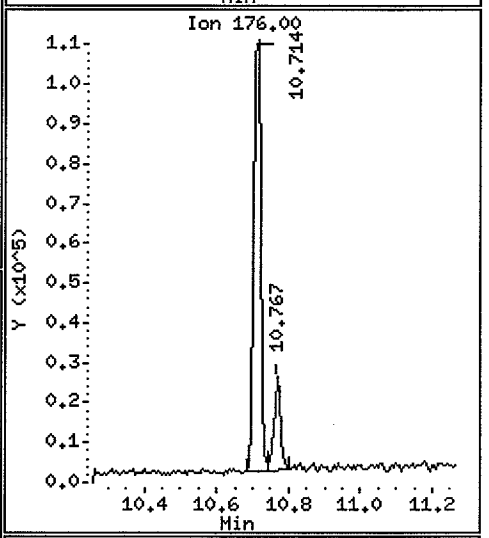


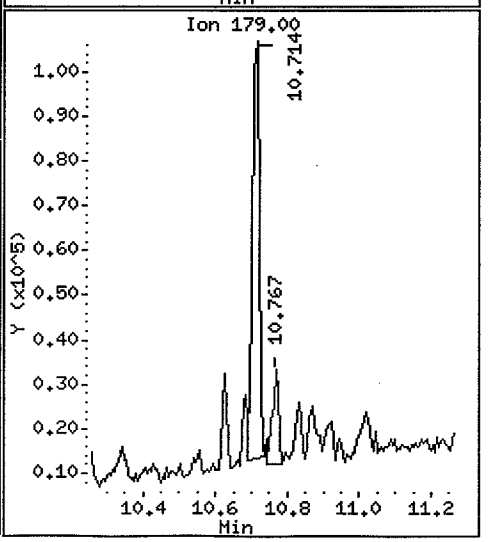












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

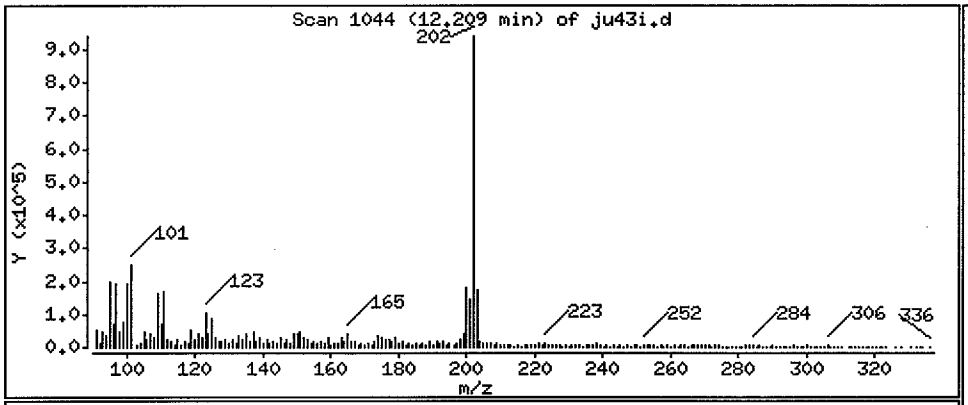
Operator: VTS

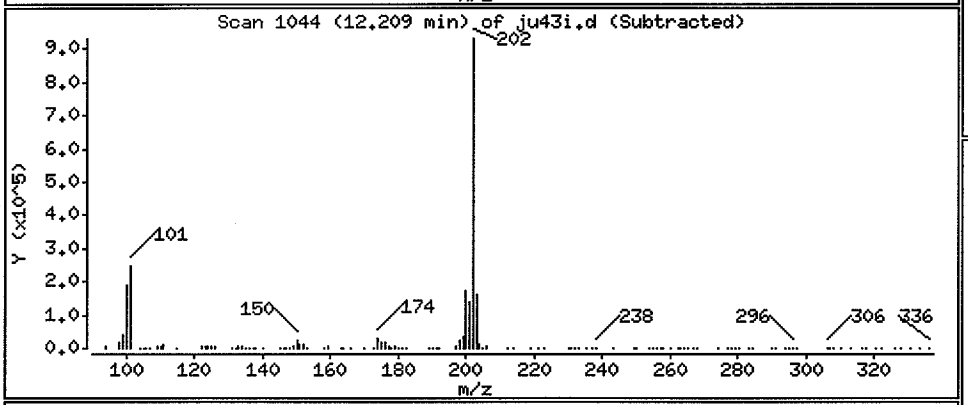
Column phase: ZB-5

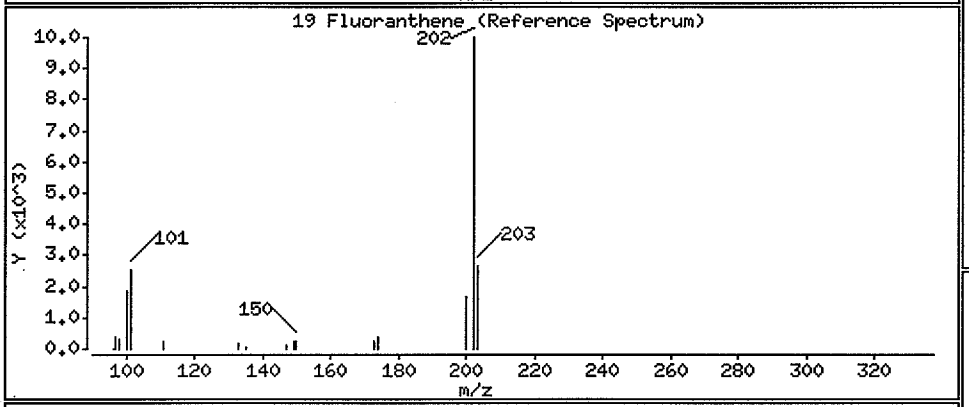
Column diameter: 0.25

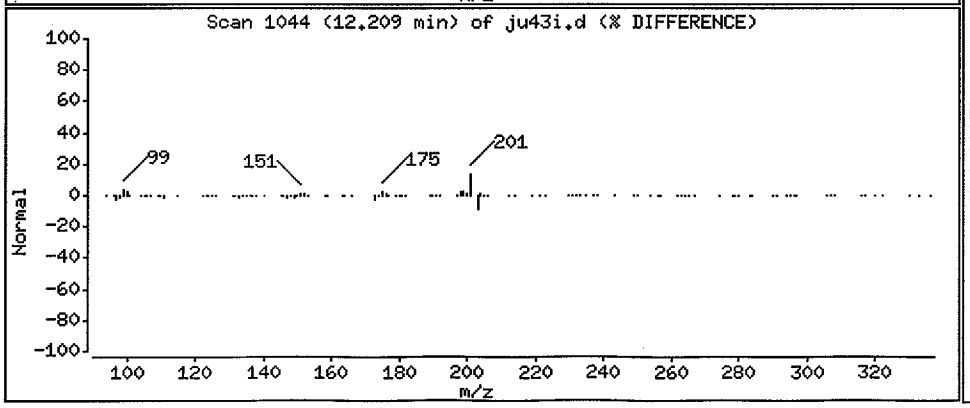
19 Fluoranthene

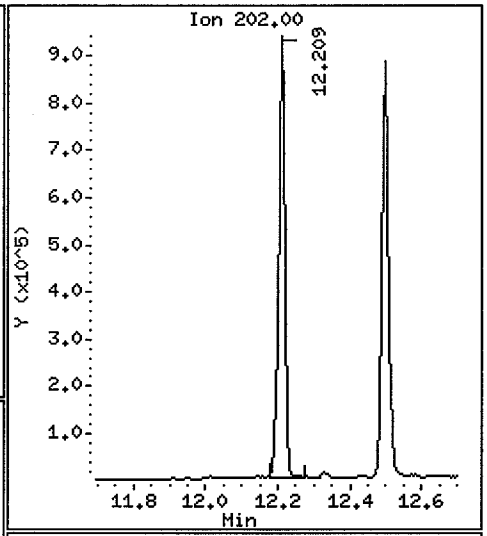
Concentration: 535.8 ug/kg

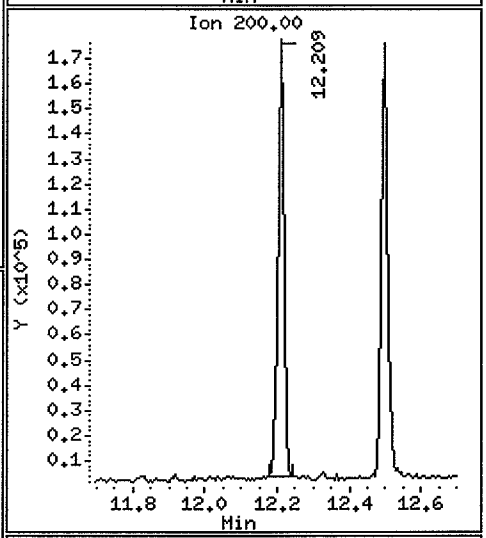


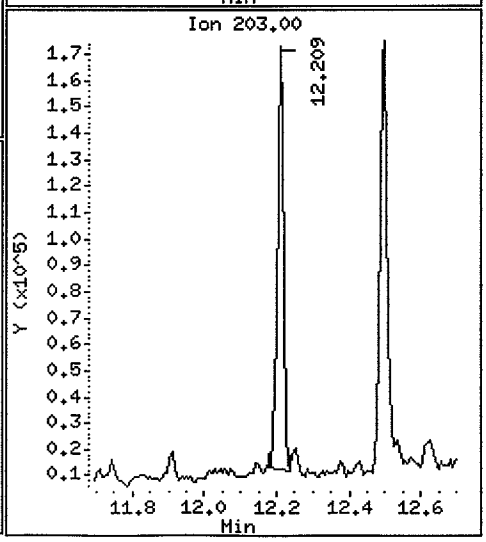












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

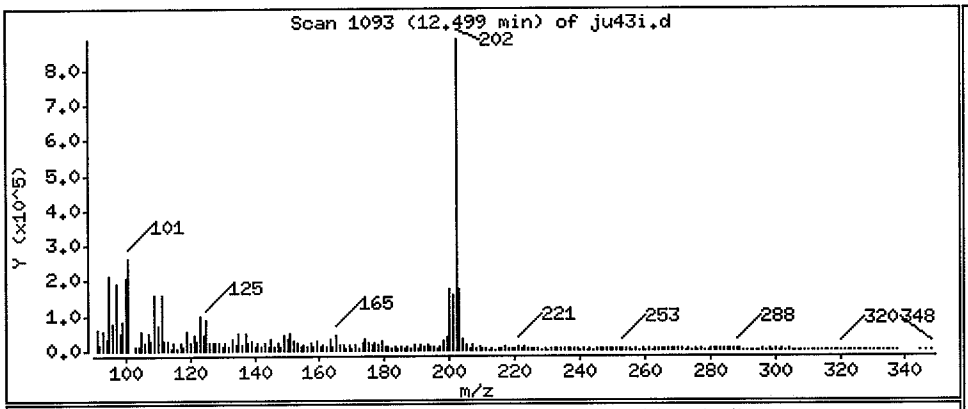
Operator: VTS

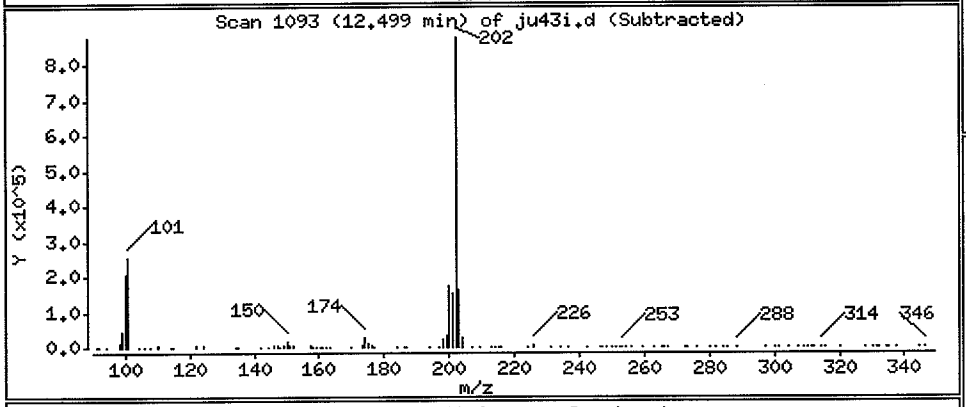
Column phase: ZB-5

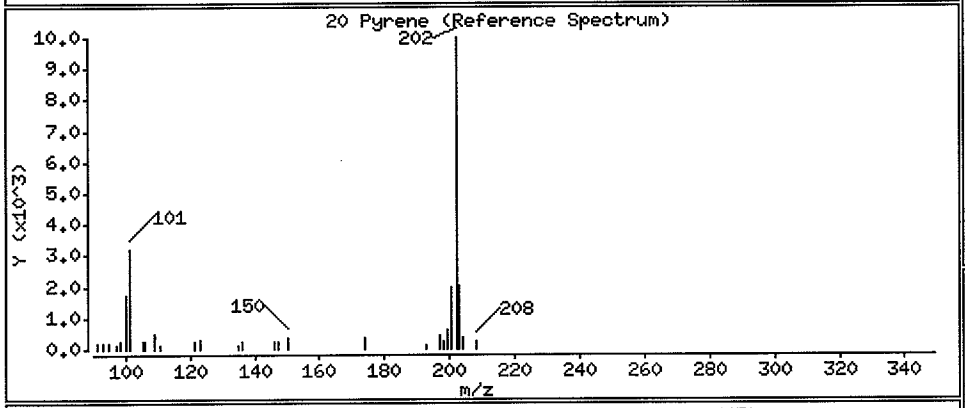
Column diameter: 0.25

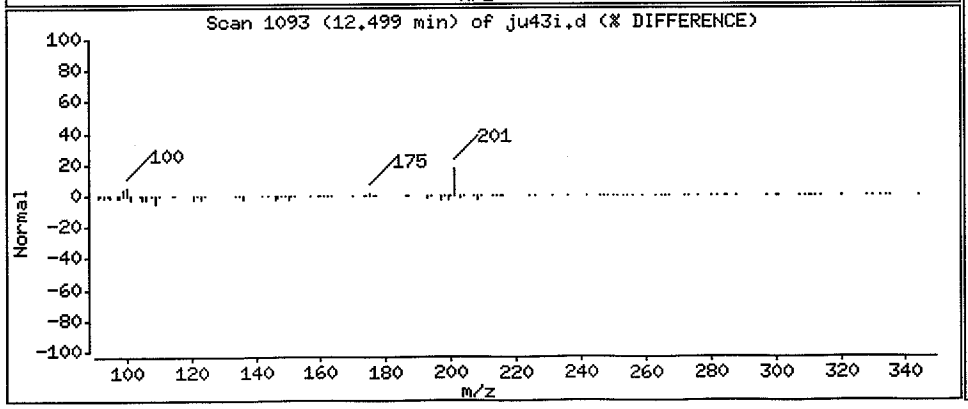
20 Pyrene

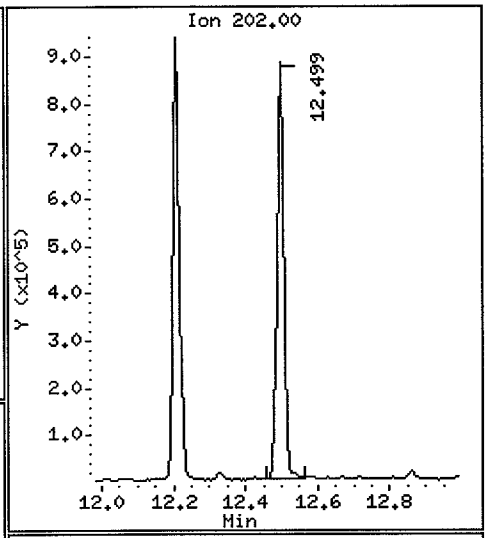
Concentration: 483.7 ug/kg

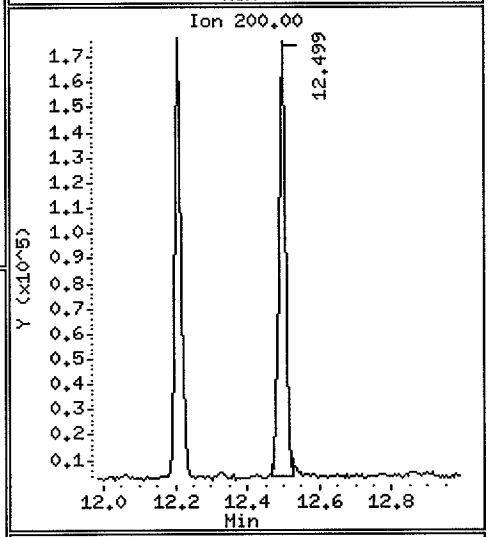


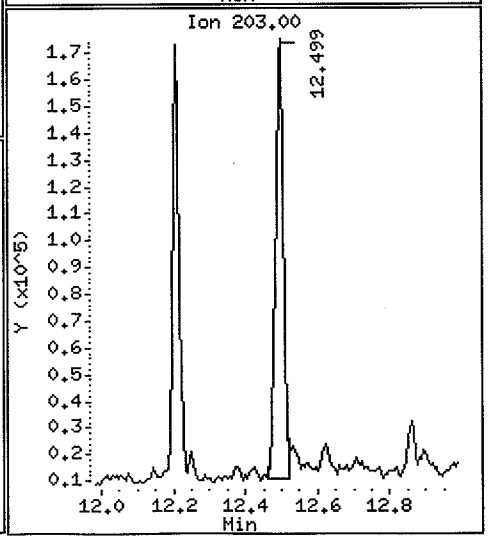












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

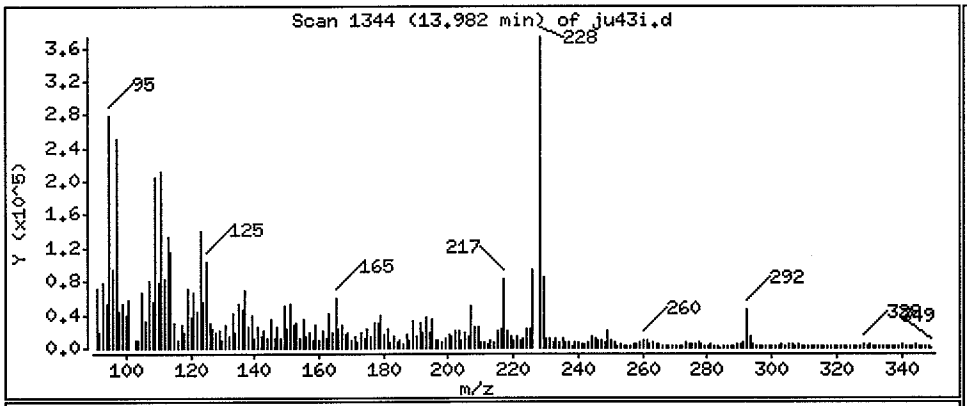
Operator: VTS

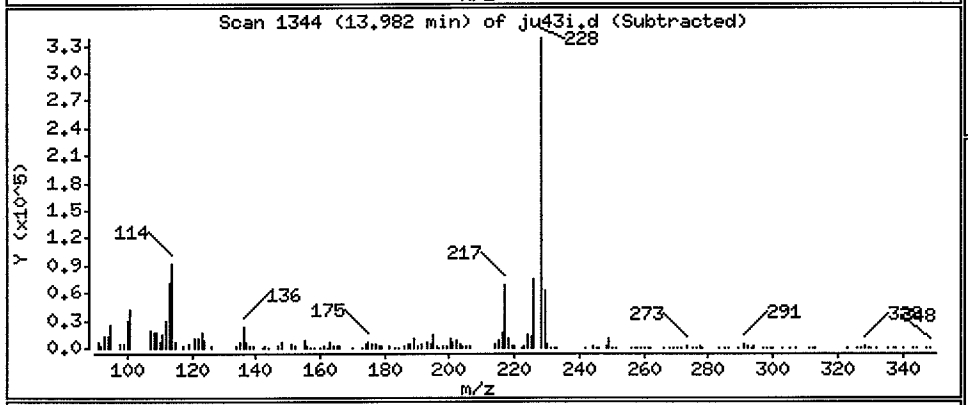
Column phase: ZB-5

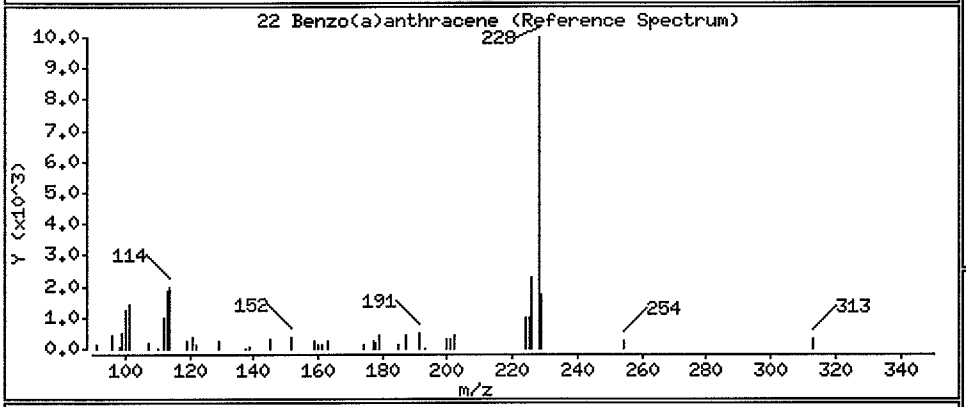
Column diameter: 0.25

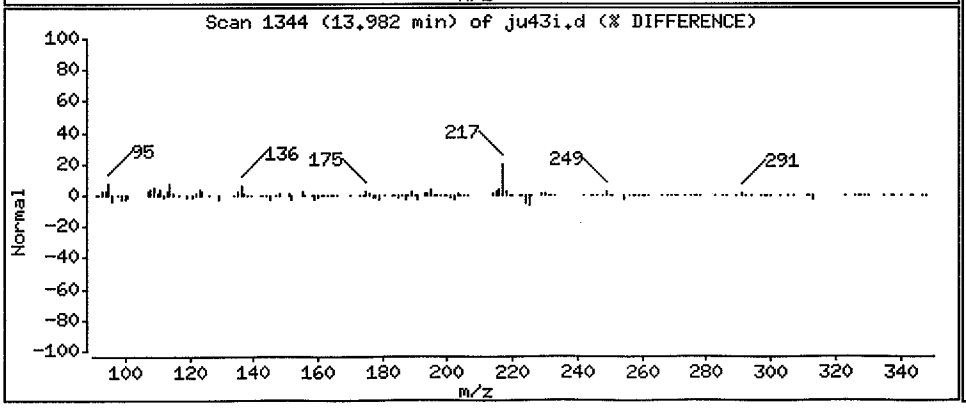
22 Benzo(a)anthracene

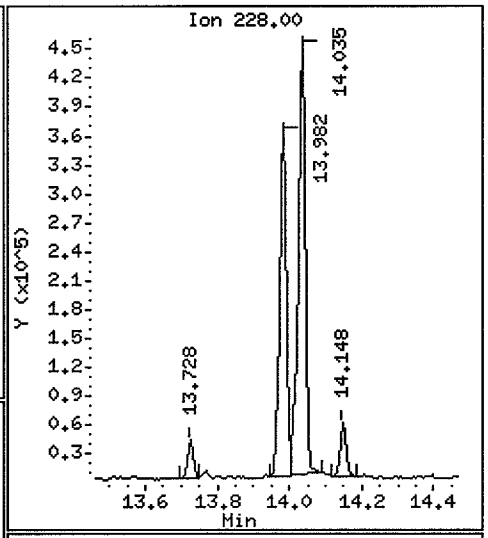
Concentration: 239.2 ug/kg

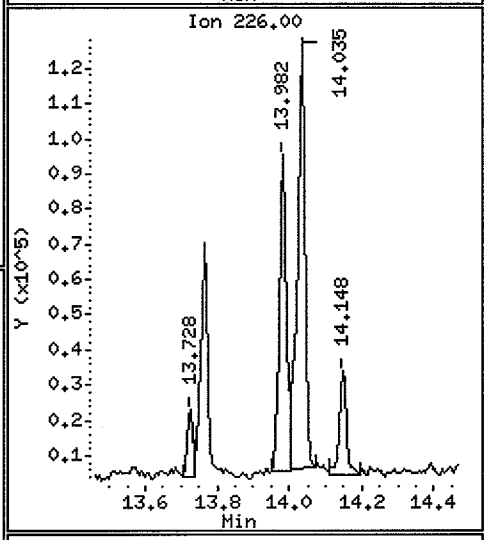


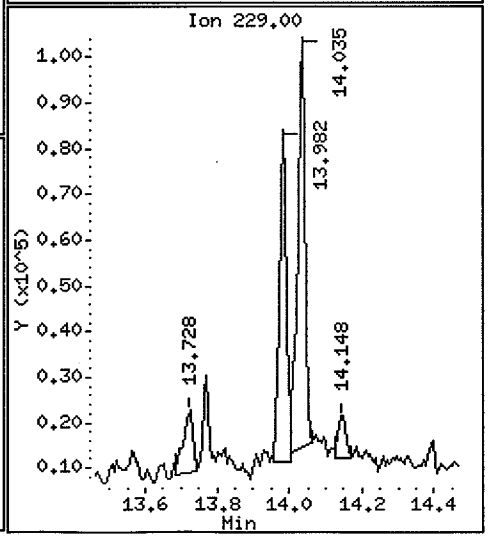












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

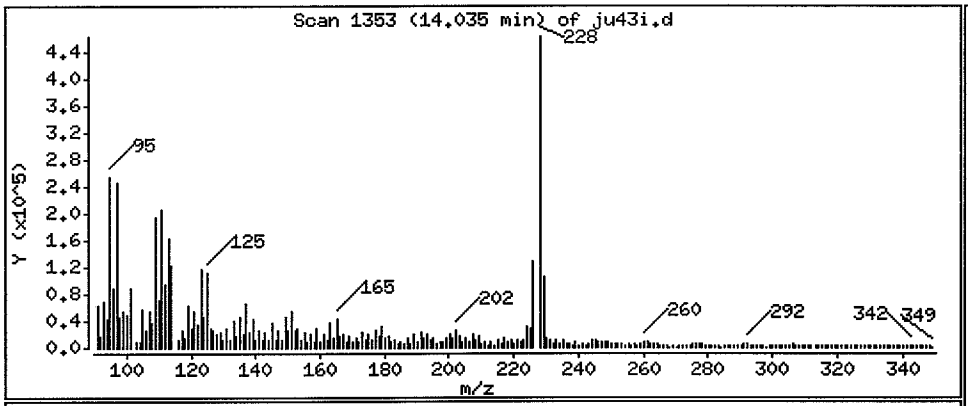
Operator: VTS

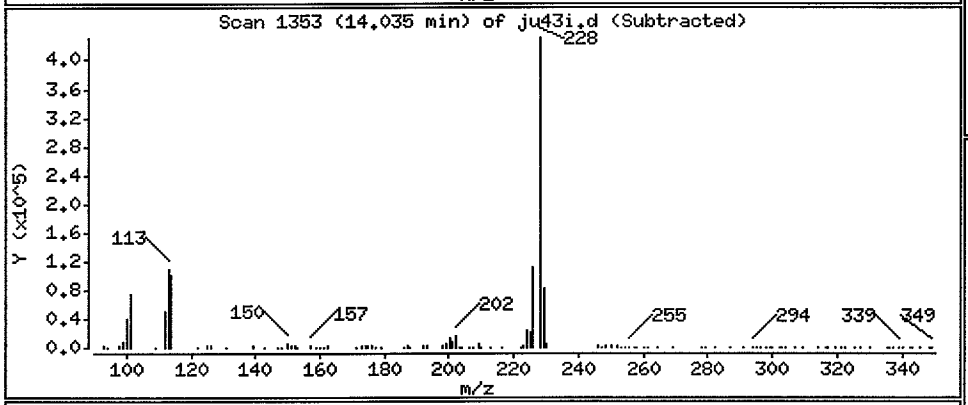
Column phase: ZB-5

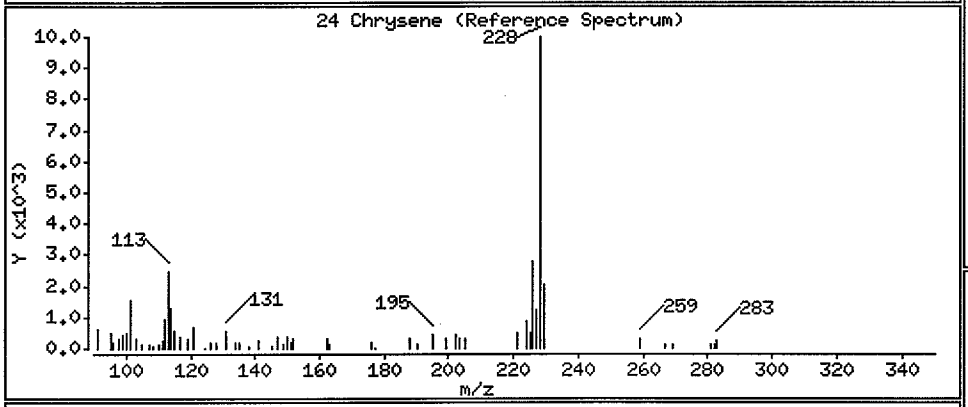
Column diameter: 0.25

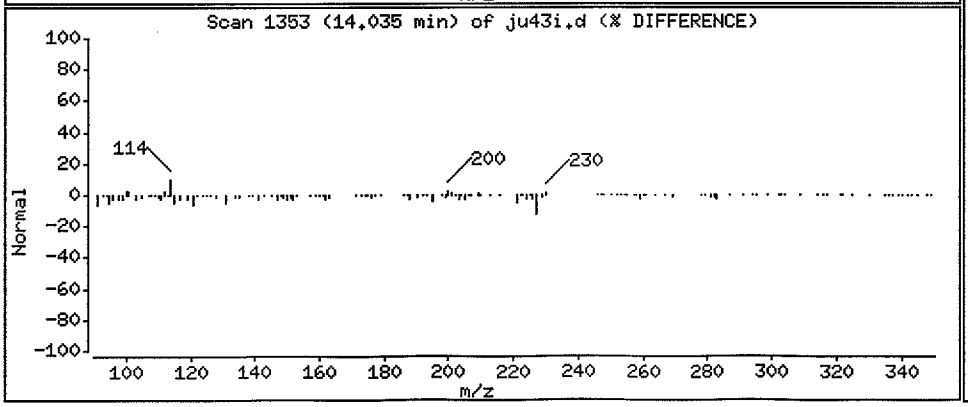
24 Chrysene

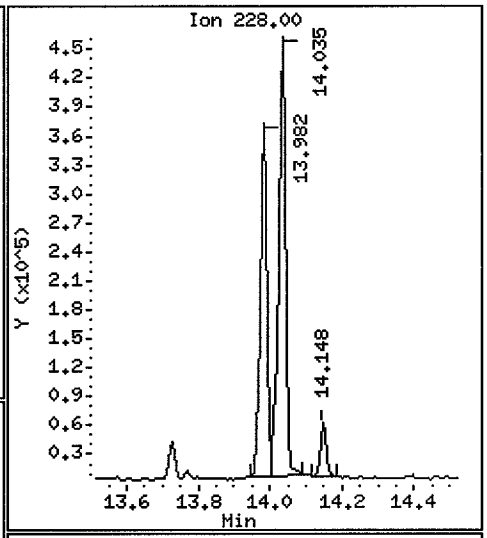
Concentration: 334.8 ug/kg

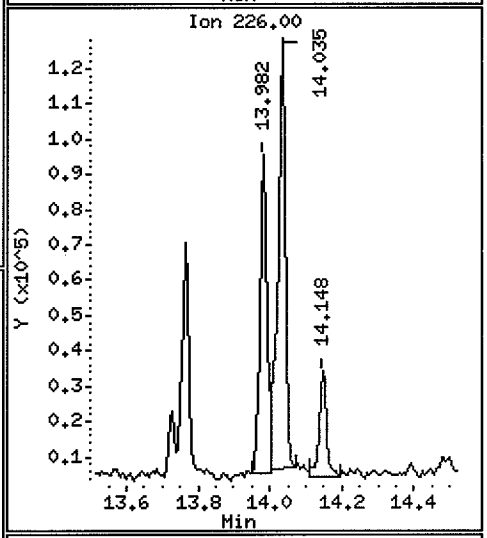


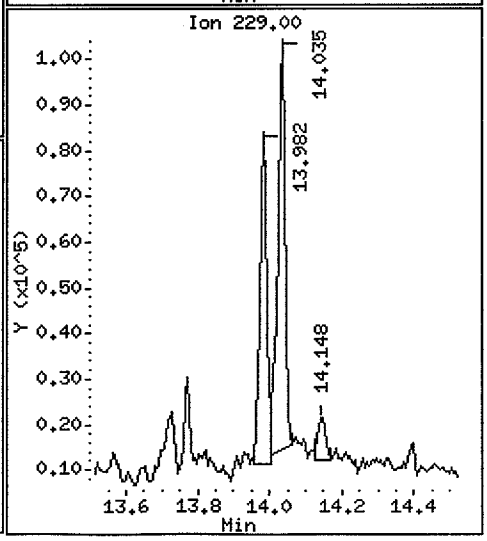












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

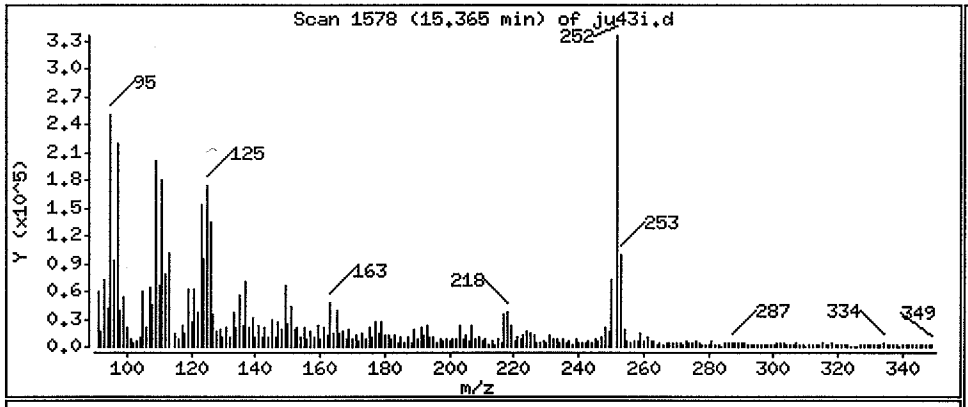
Operator: VTS

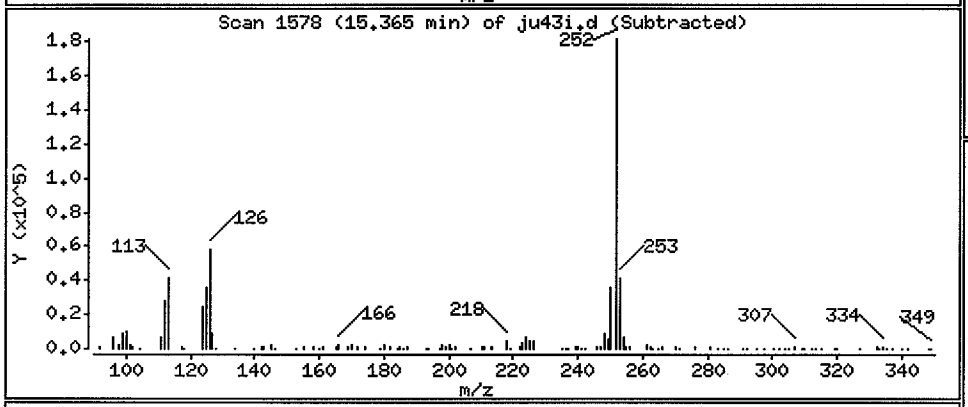
Column phase: ZB-5

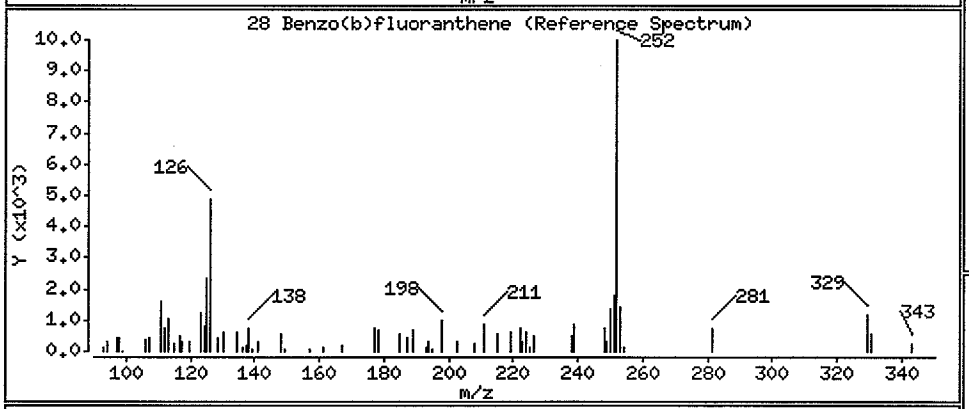
Column diameter: 0.25

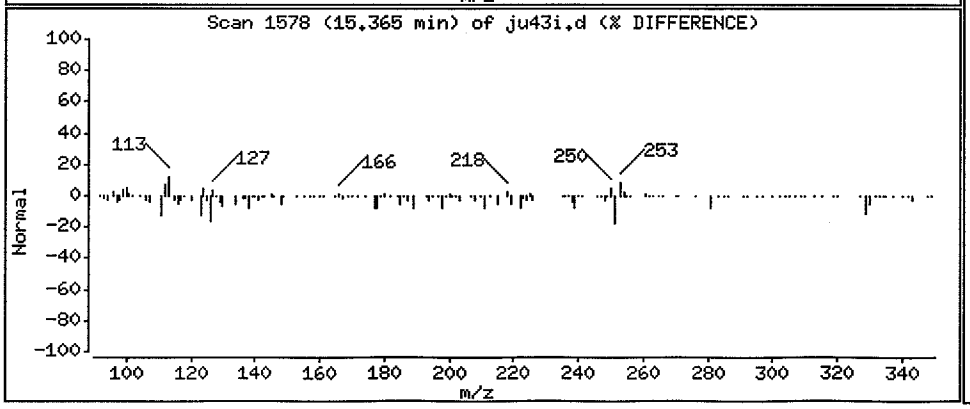
28 Benzo(b)fluoranthene

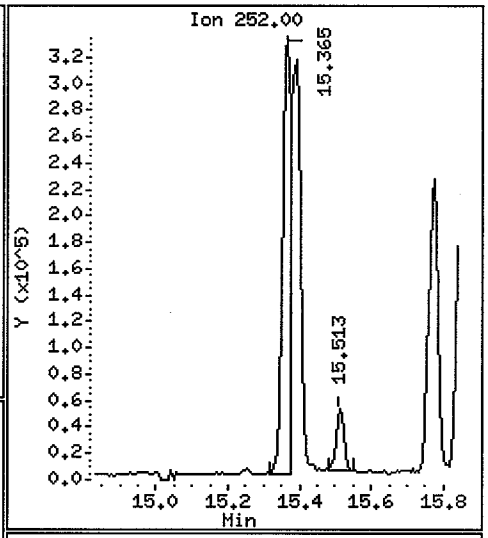
Concentration: 324.0 ug/kg

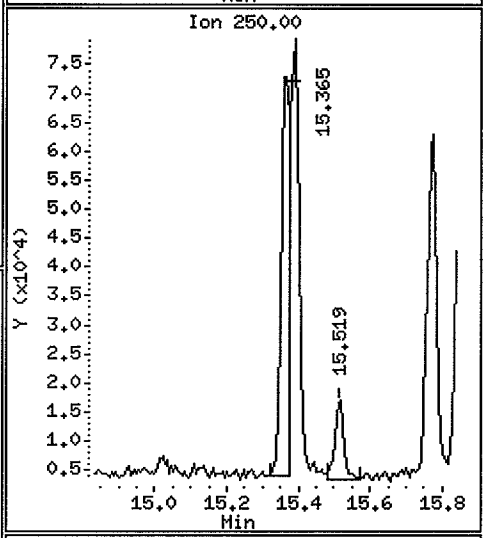


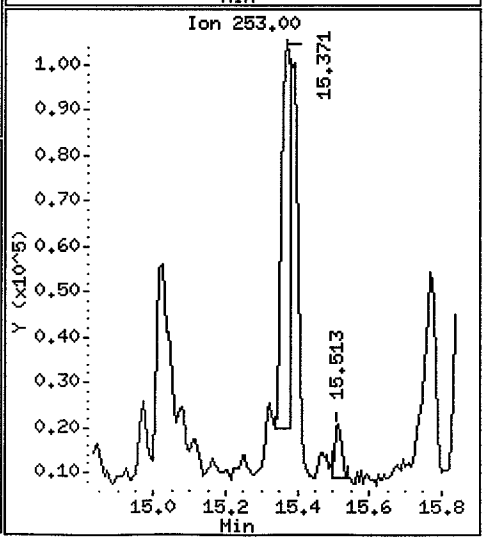












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

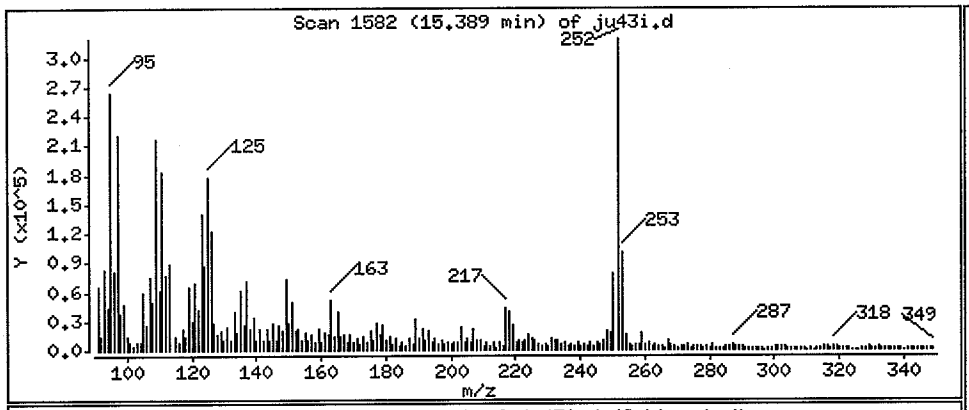
Operator: VTS

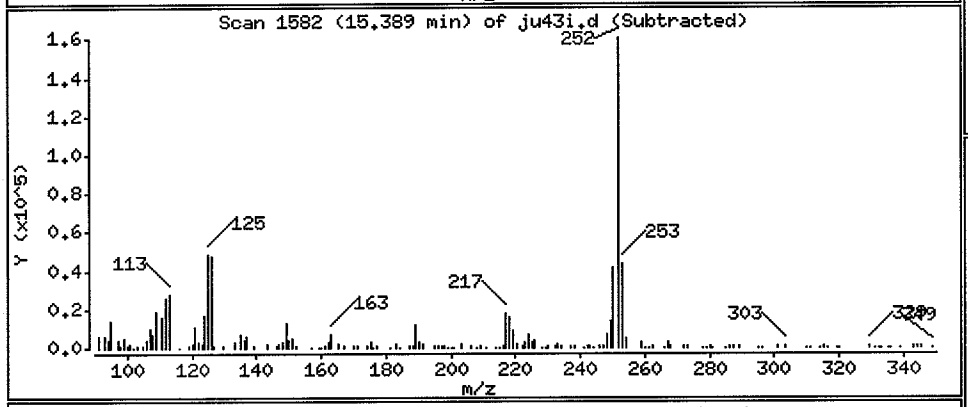
Column phase: ZB-5

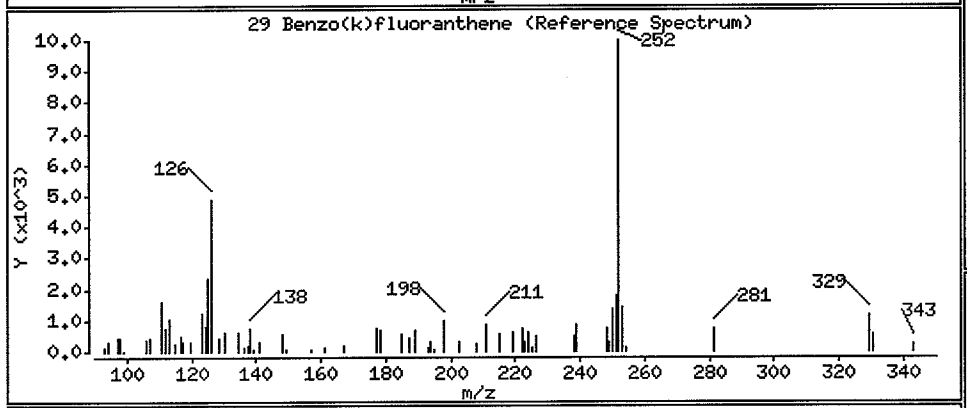
Column diameter: 0.25

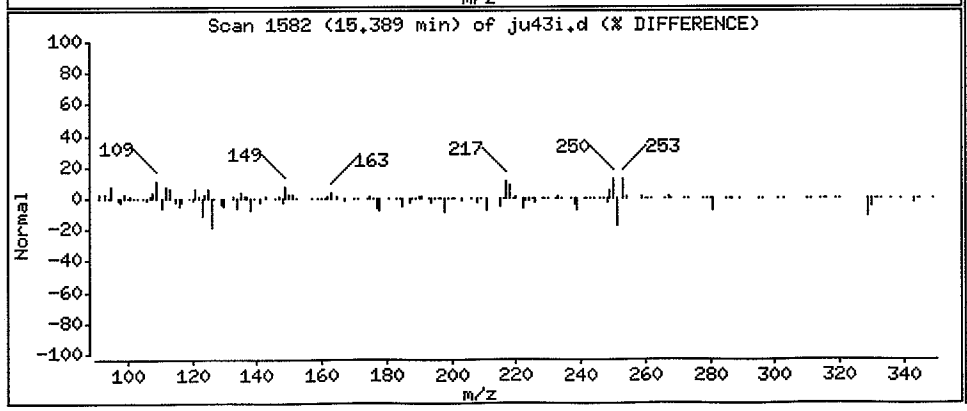
29 Benzo(k)fluoranthene

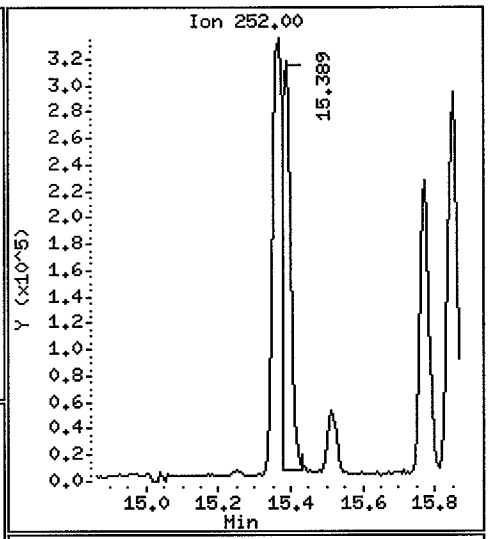
Concentration: 277.9 ug/kg

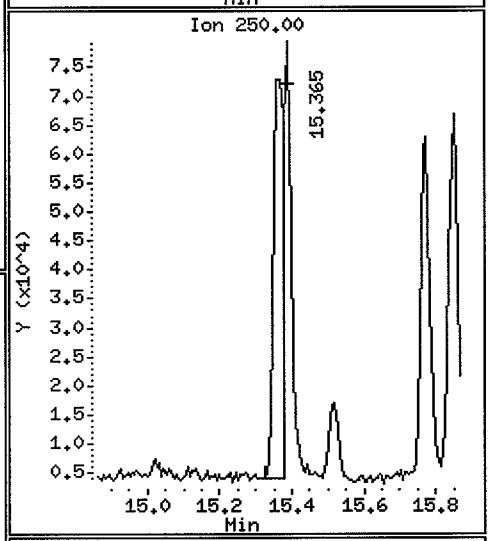


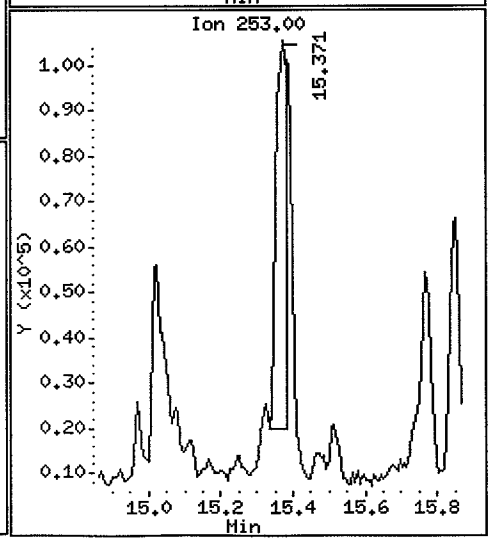












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

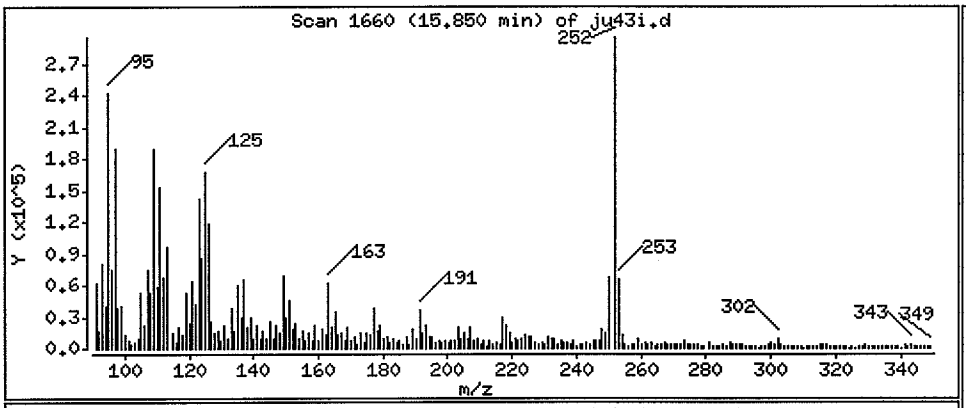
Operator: VTS

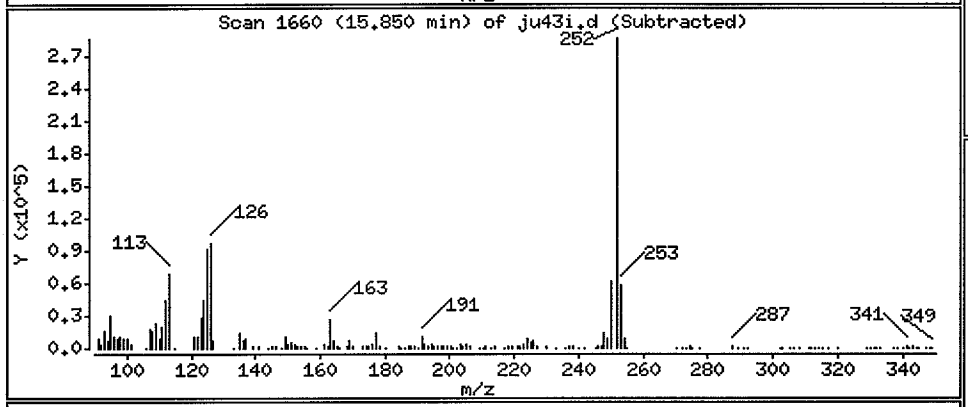
Column phase: ZB-5

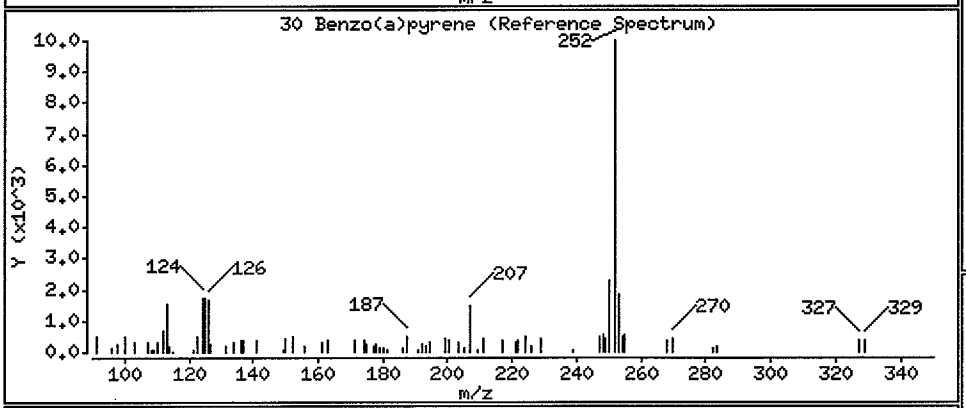
Column diameter: 0.25

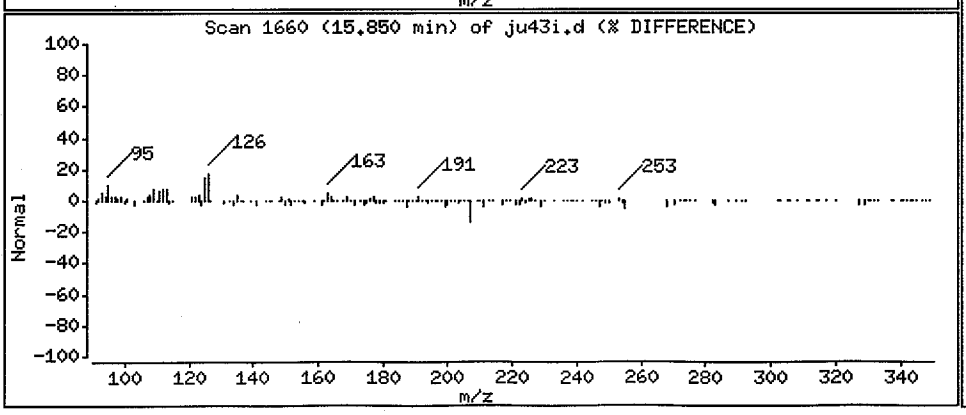
30 Benzo(a)pyrene

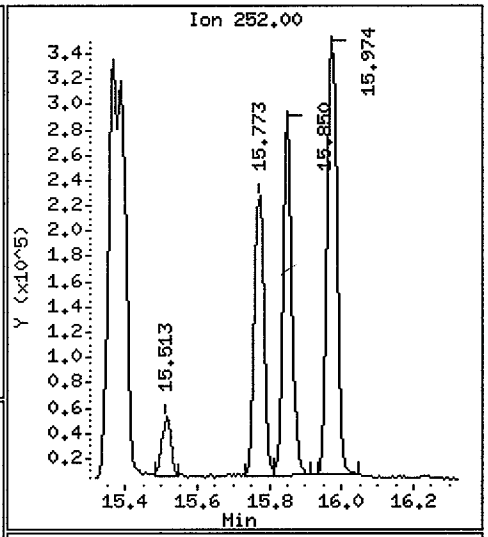
Concentration: 309.1 ug/kg

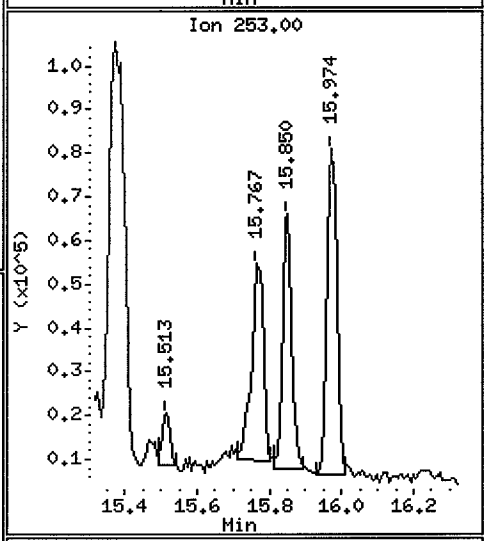


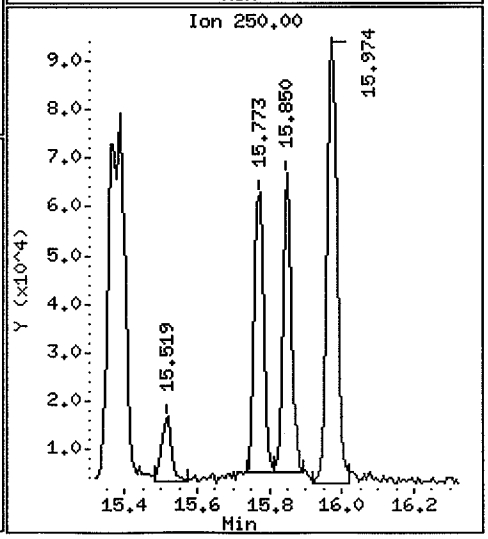












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

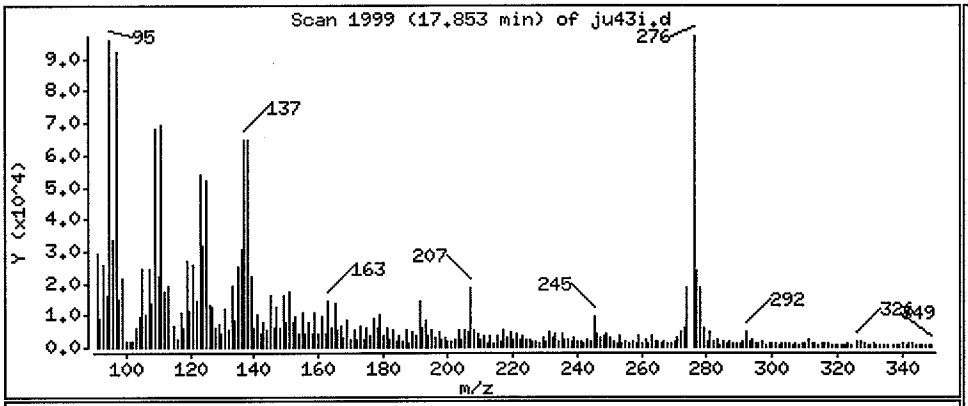
Operator: VTS

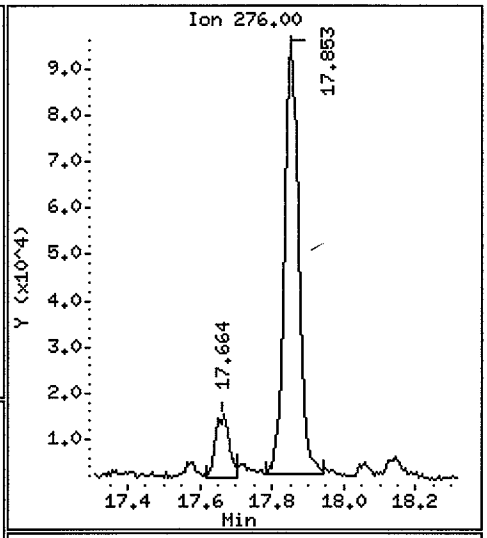
Column phase: ZB-5

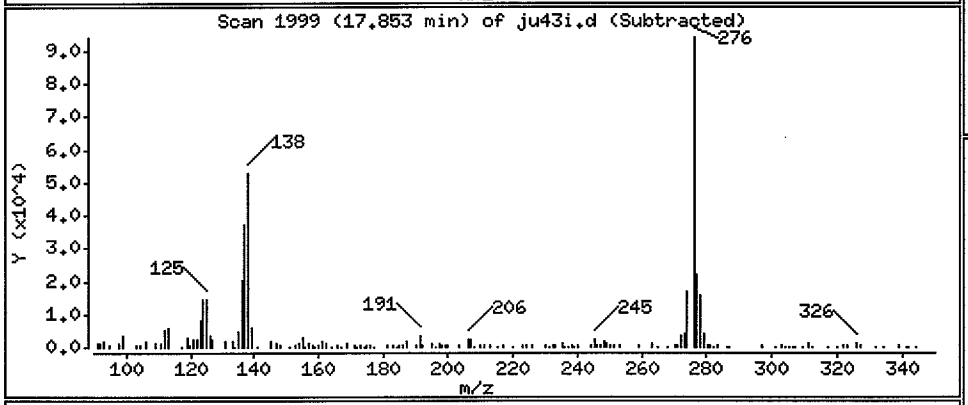
Column diameter: 0.25

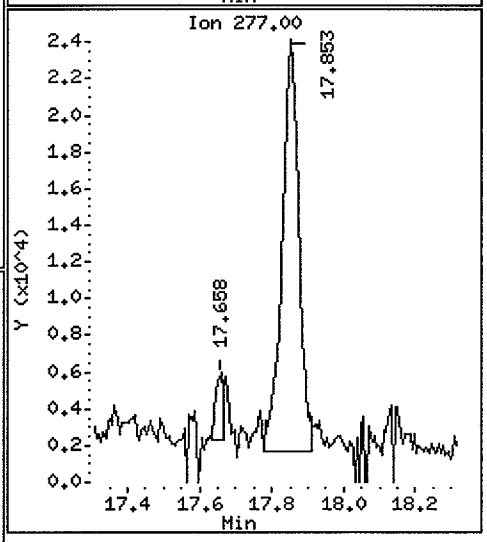
33 Indeno(1,2,3-cd)pyrene

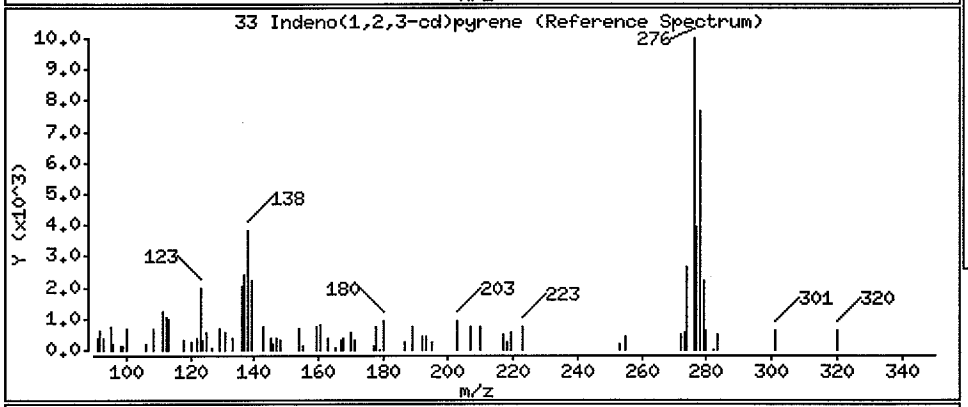
Concentration: 144.4 ug/kg

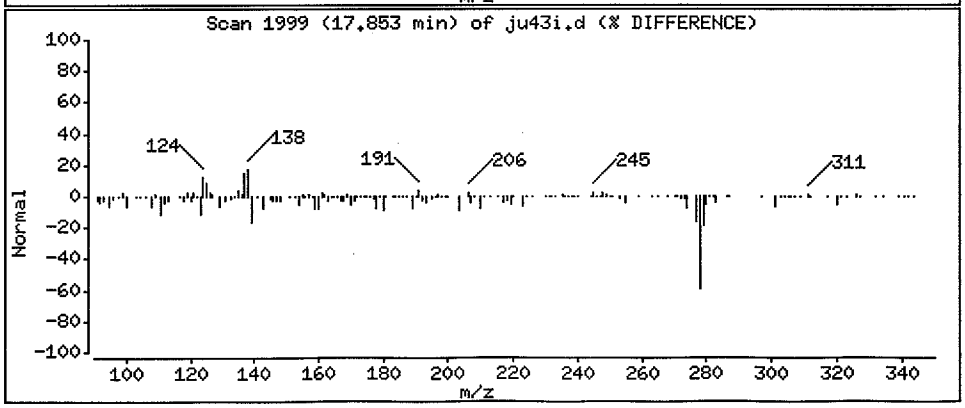












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

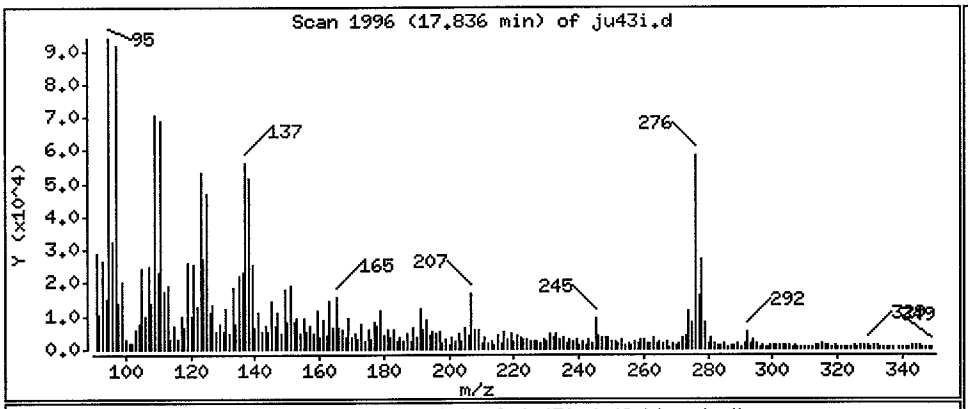
Operator: VTS

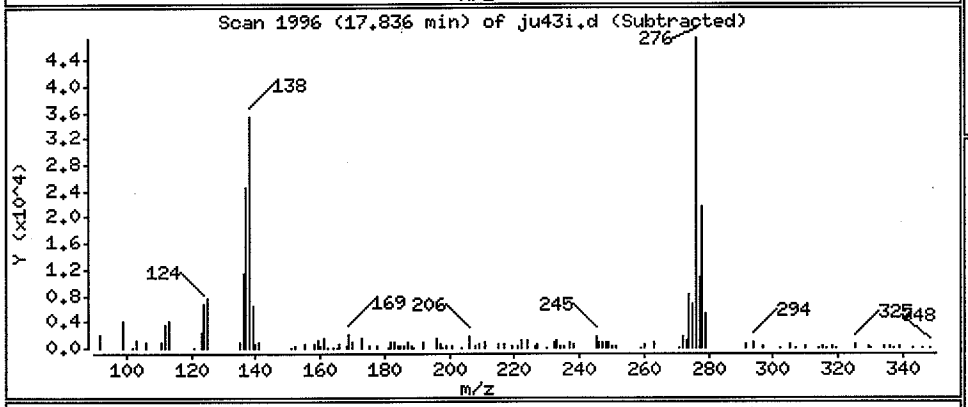
Column phase: ZB-5

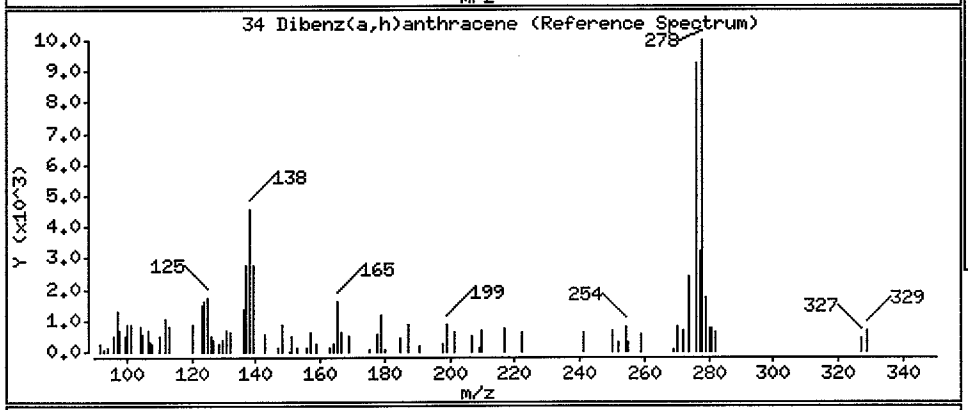
Column diameter: 0.25

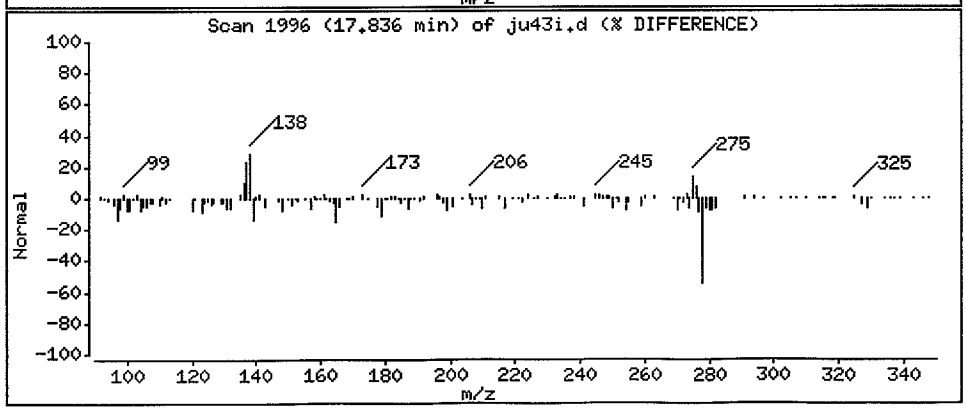
34 Dibenz(a,h)anthracene

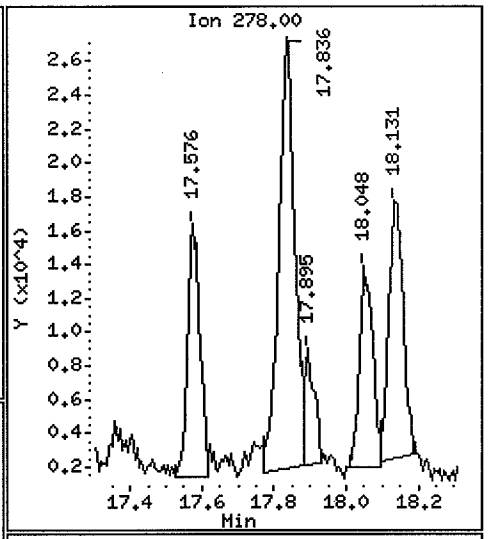
Concentration: 56.48 ug/kg

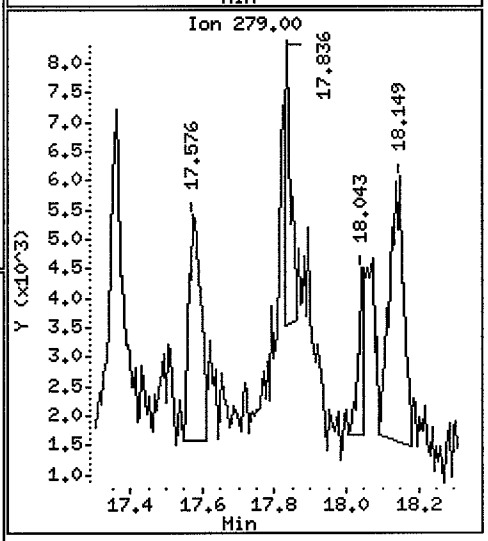












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

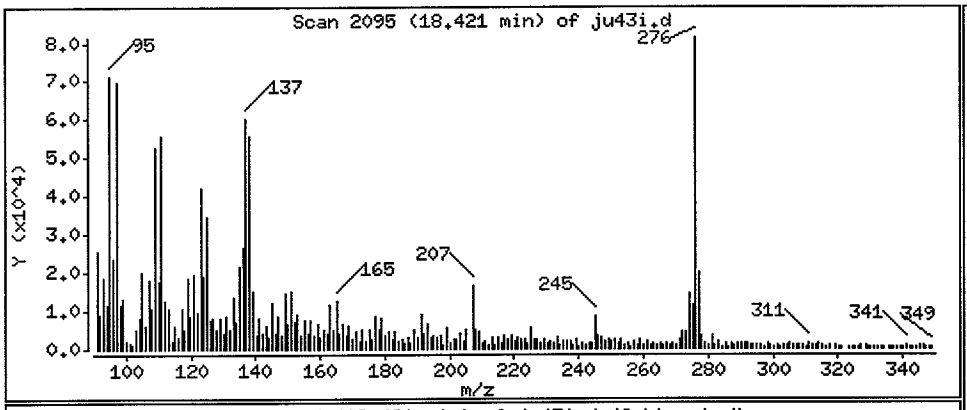
Operator: VTS

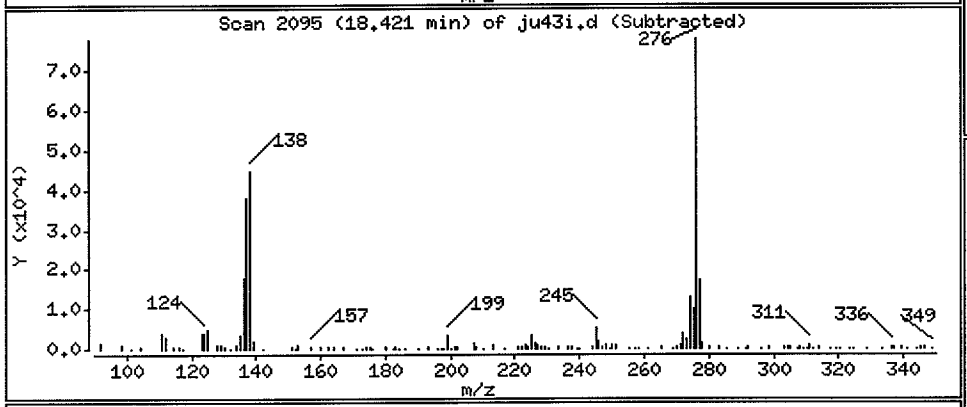
Column phase: ZB-5

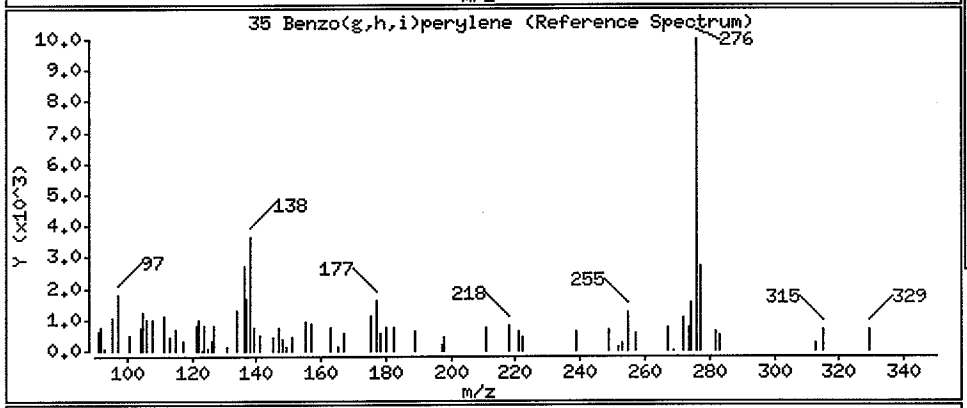
Column diameter: 0.25

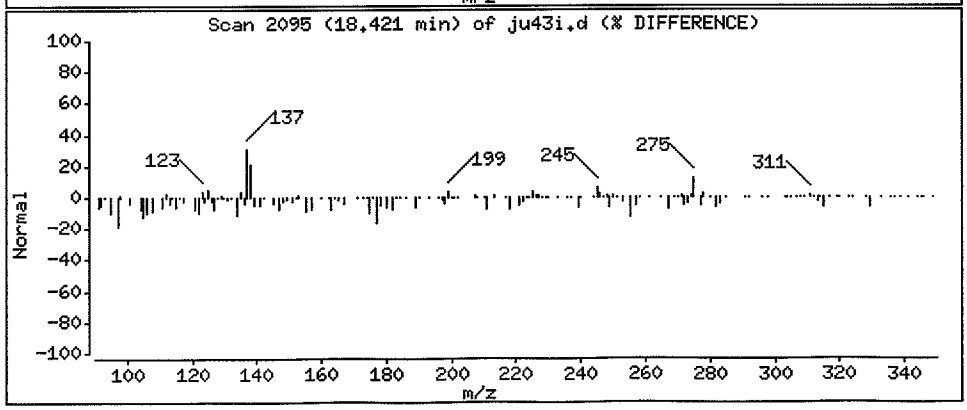
35 Benzo(g,h,i)perylene

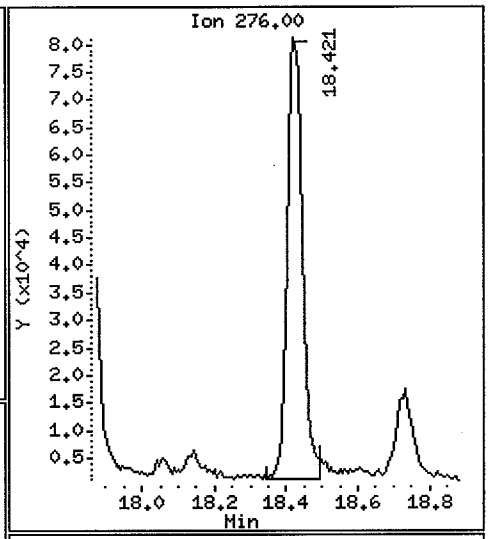
Concentration: 151.8 ug/kg

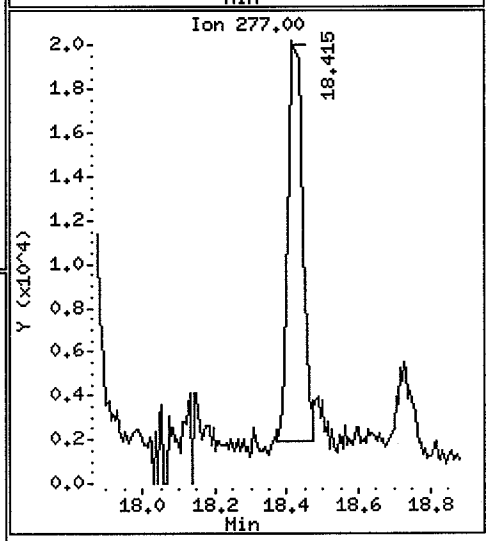












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

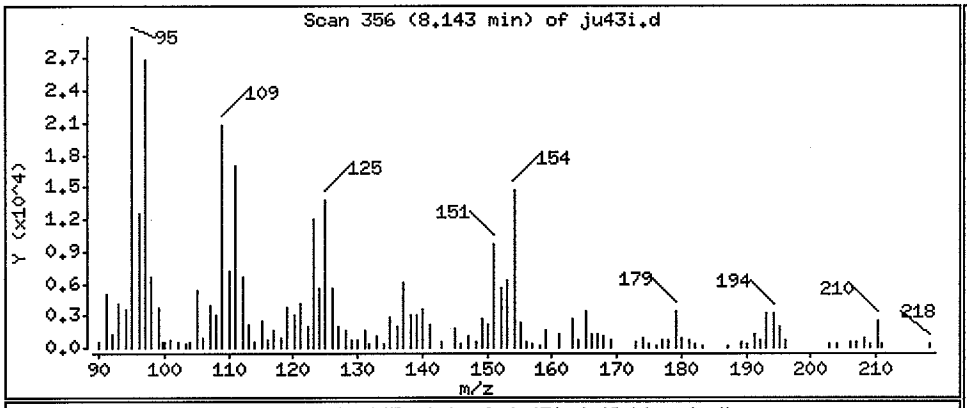
Operator: VTS

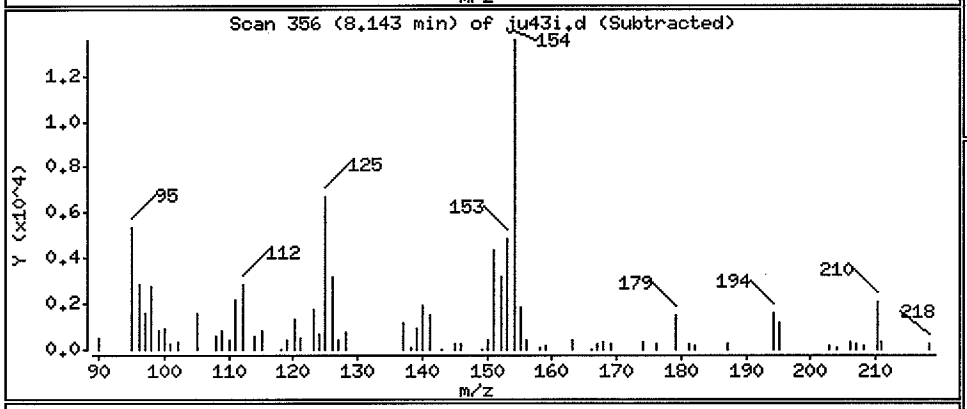
Column phase: ZB-5

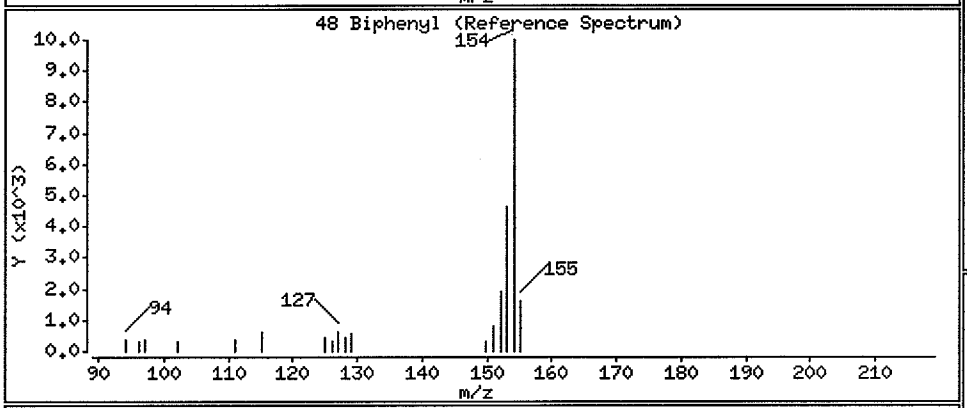
Column diameter: 0.25

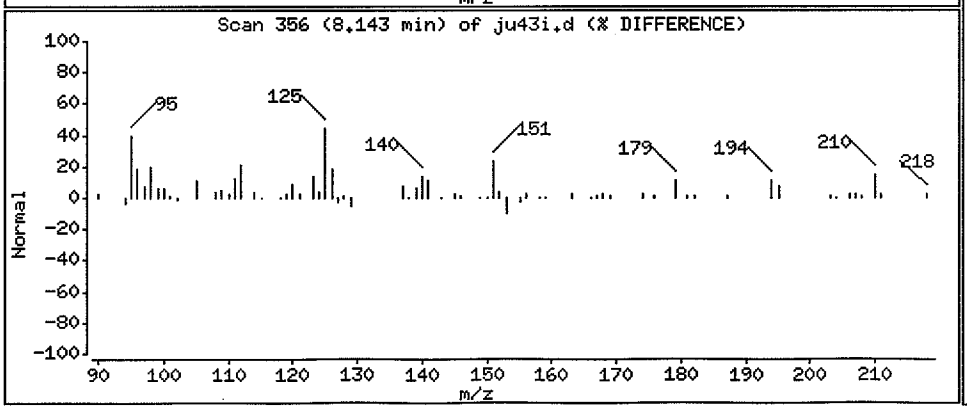
48 Biphenyl

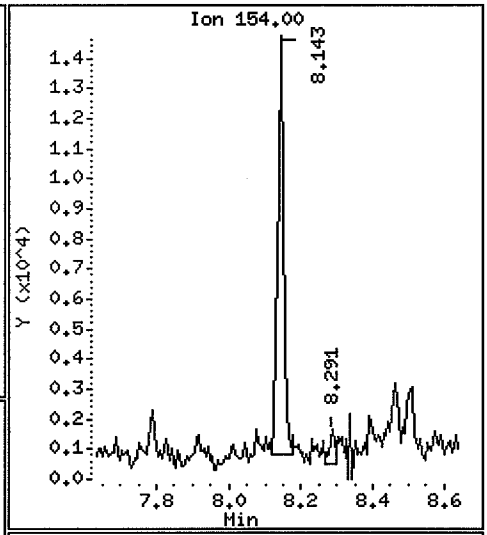
Concentration: 6.447 ug/kg

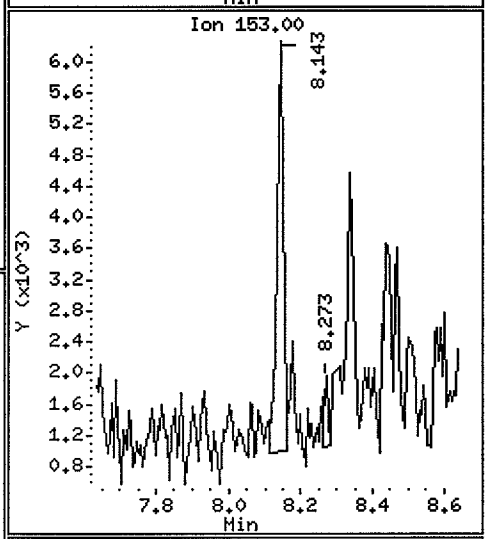


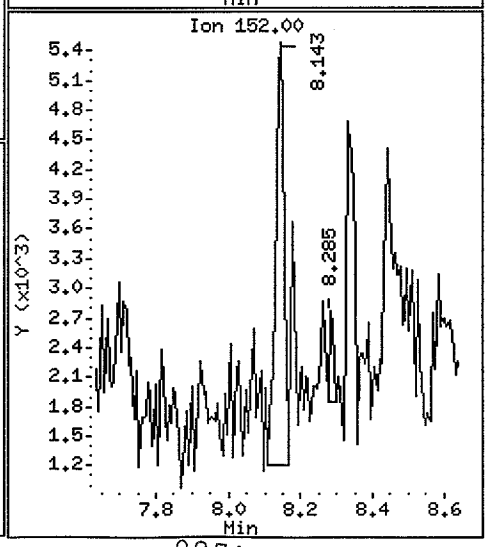












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

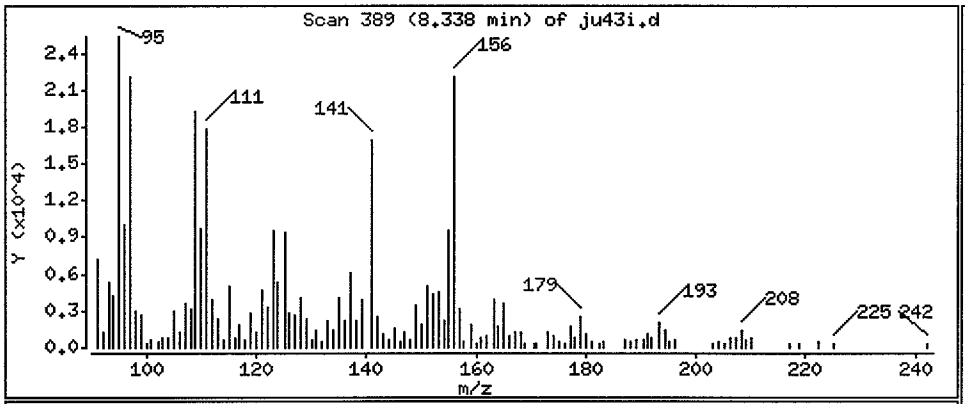
Operator: VTS

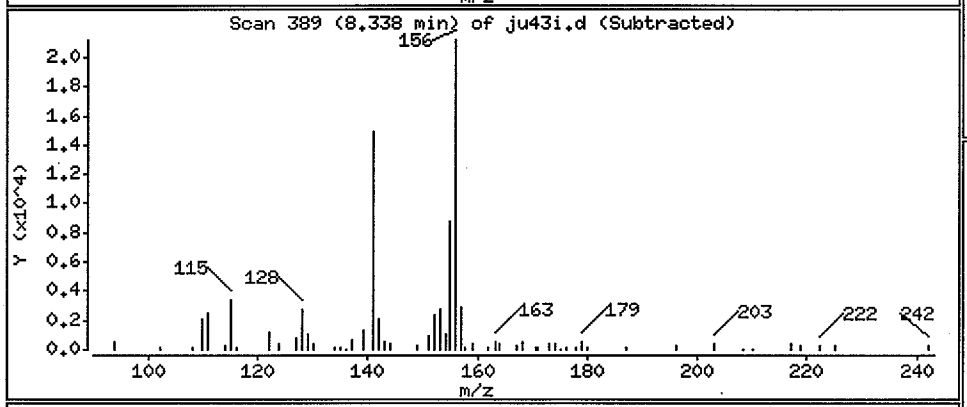
Column phase: ZB-5

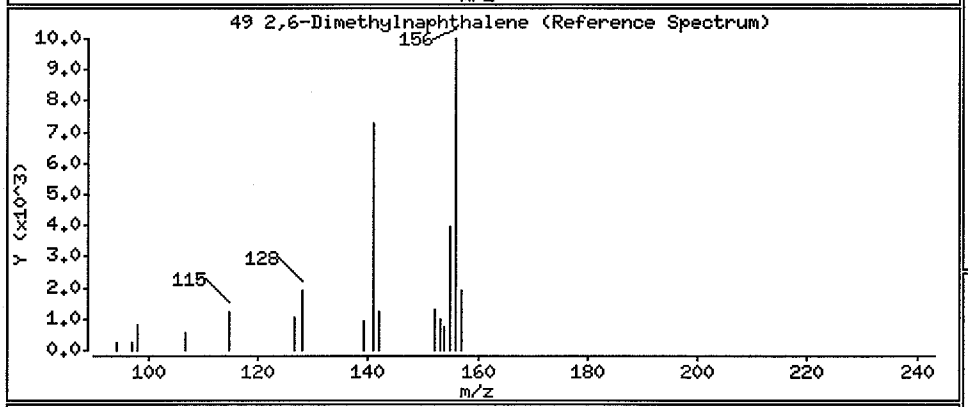
Column diameter: 0.25

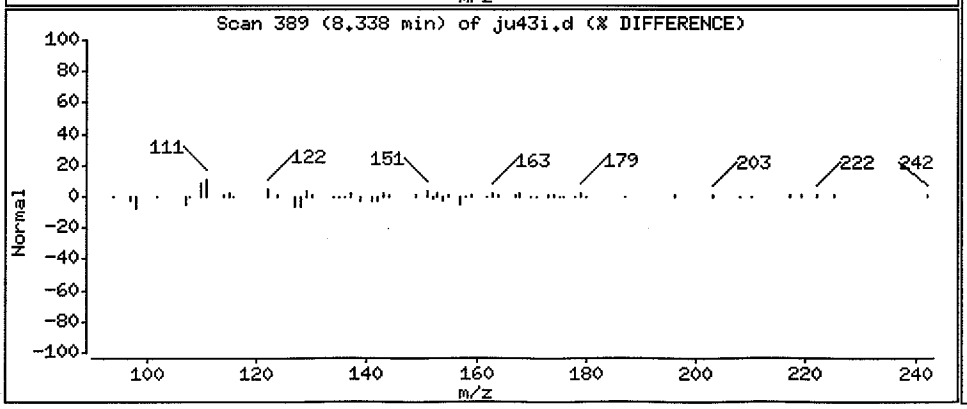
49 2,6-Dimethylnaphthalene

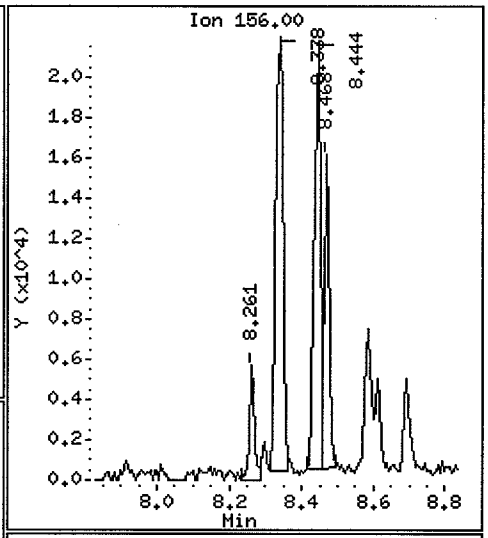
Concentration: 15.62 ug/kg

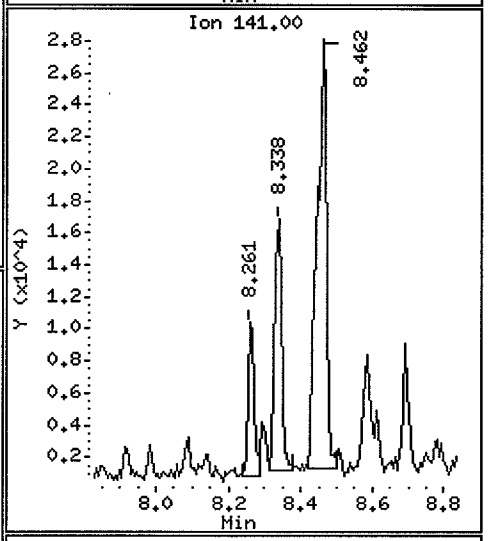


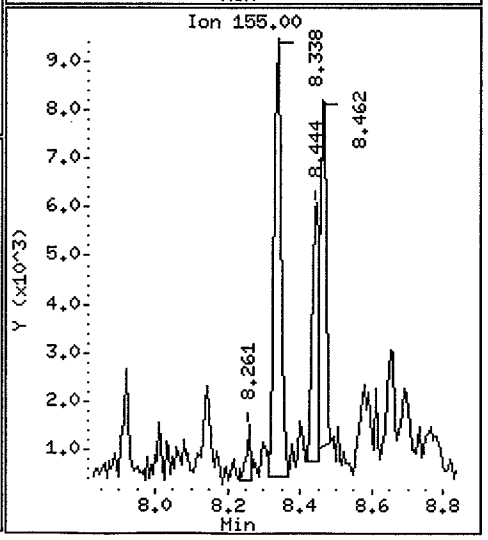












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

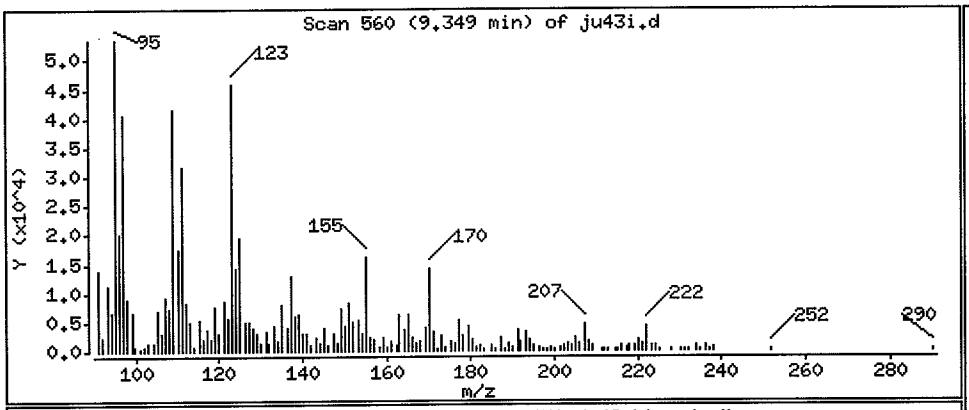
Operator: VTS

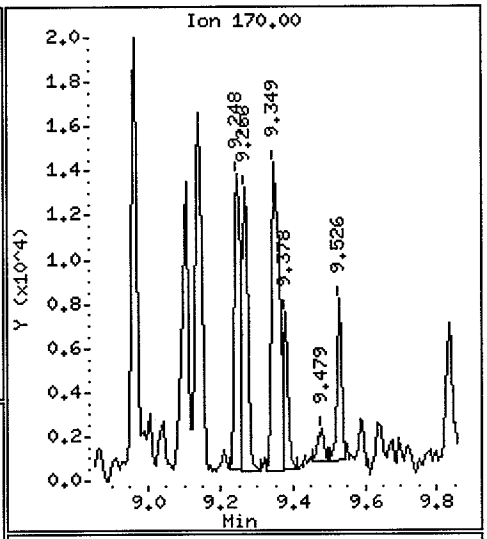
Column phase: ZB-5

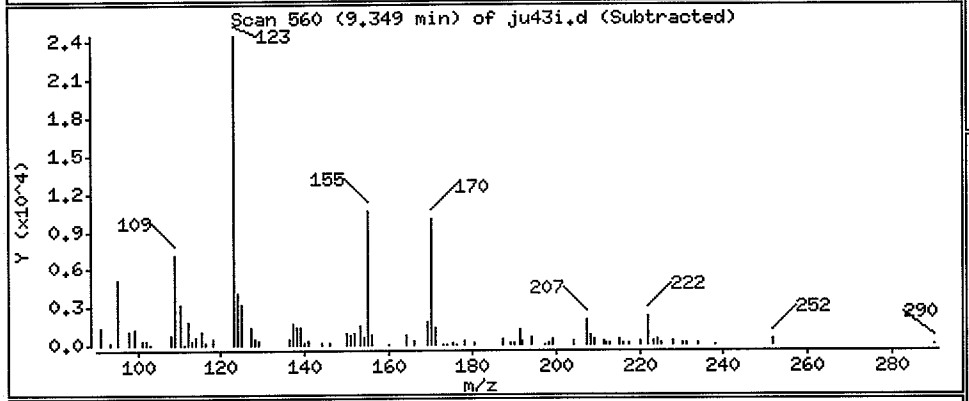
Column diameter: 0.25

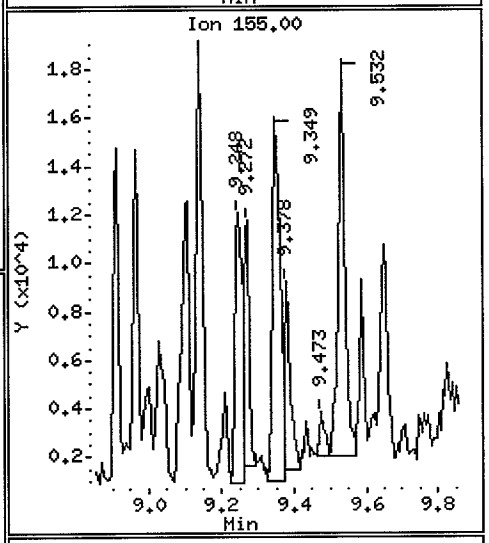
50 2,3,5-Trimethylnaphthalene

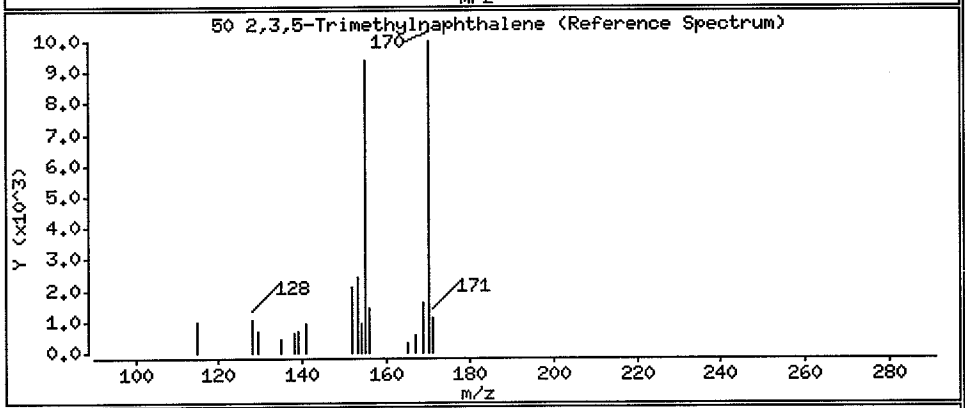
Concentration: 15.03 ug/kg

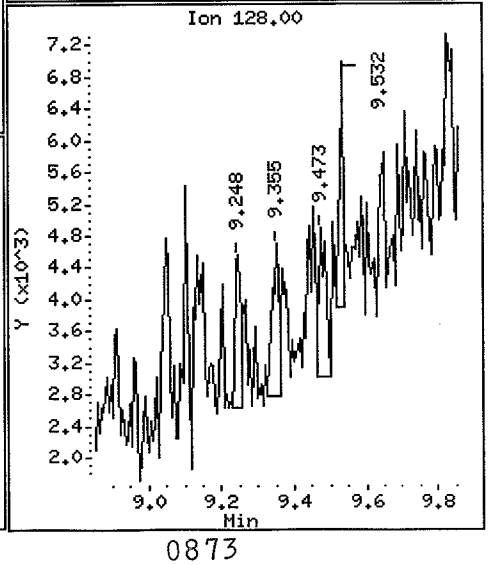


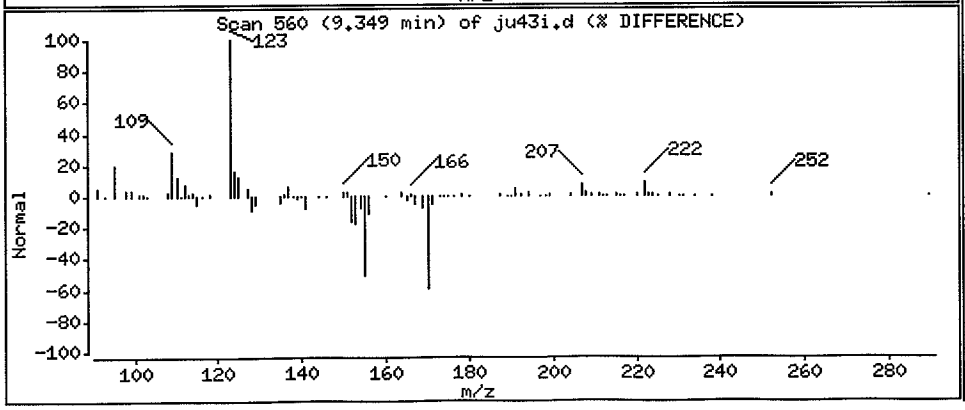












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

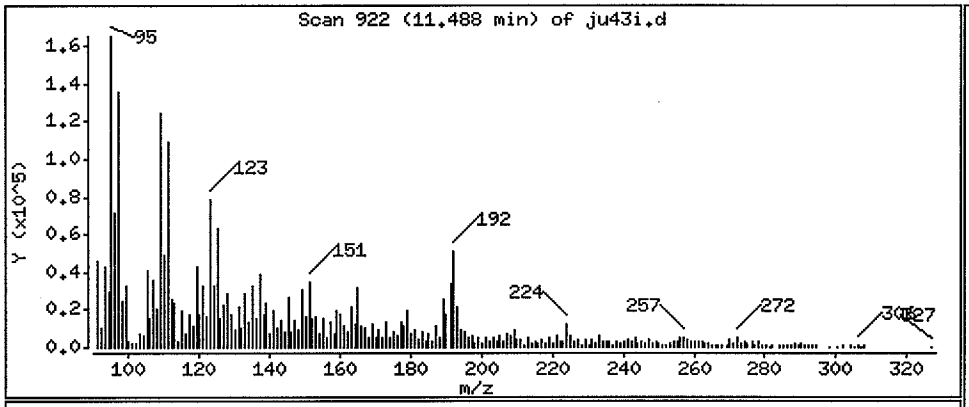
Operator: VTS

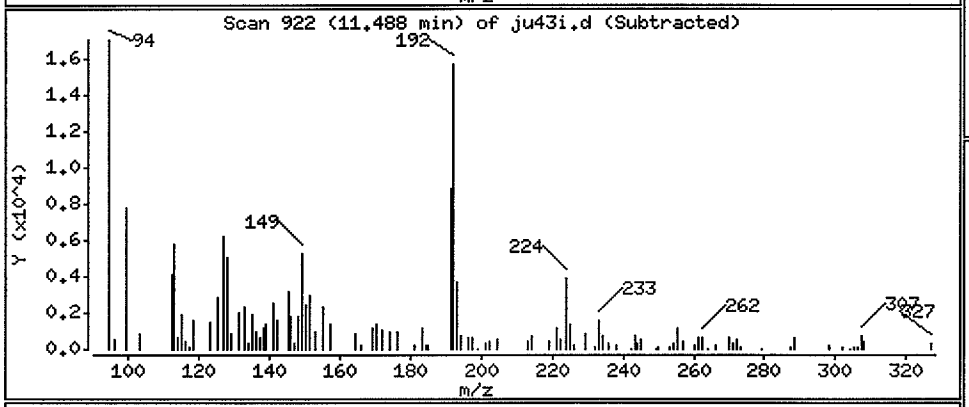
Column phase: ZB-5

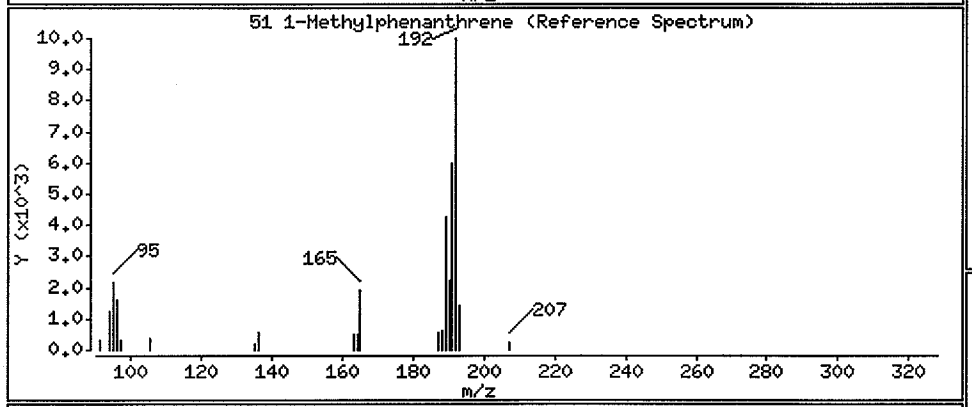
Column diameter: 0.25

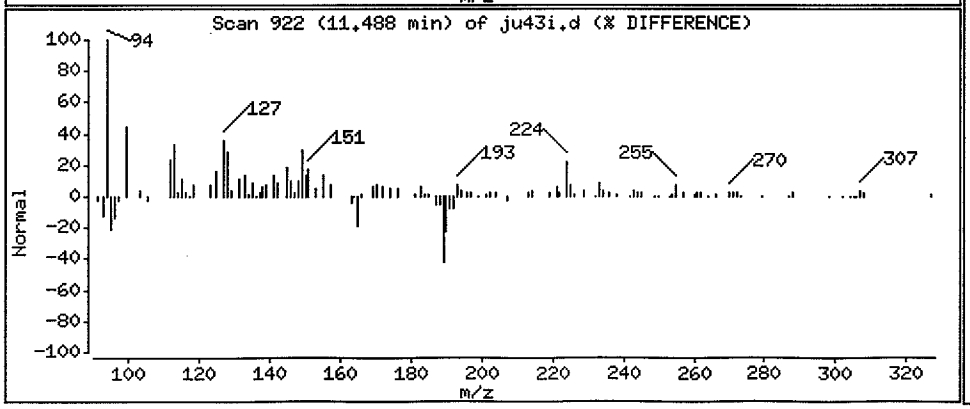
51 1-Methylphenanthrene

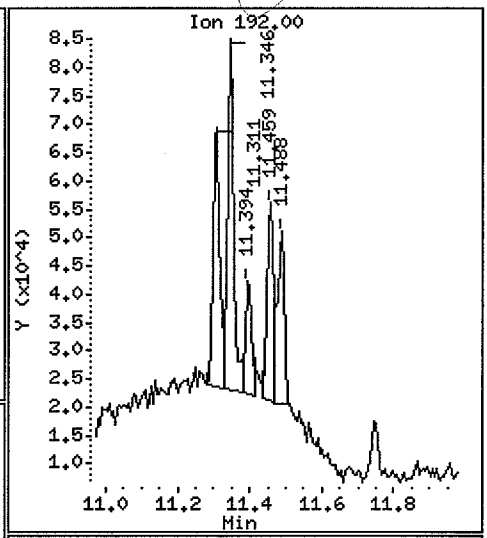
Concentration: 27.46 ug/kg

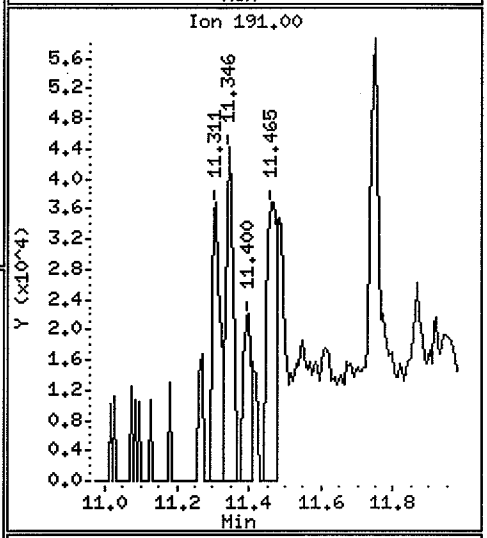


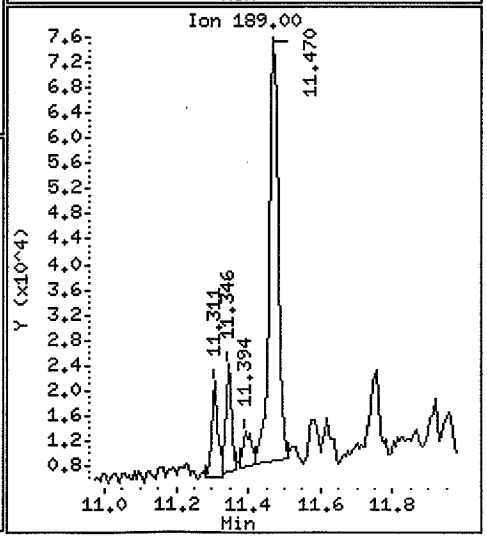












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

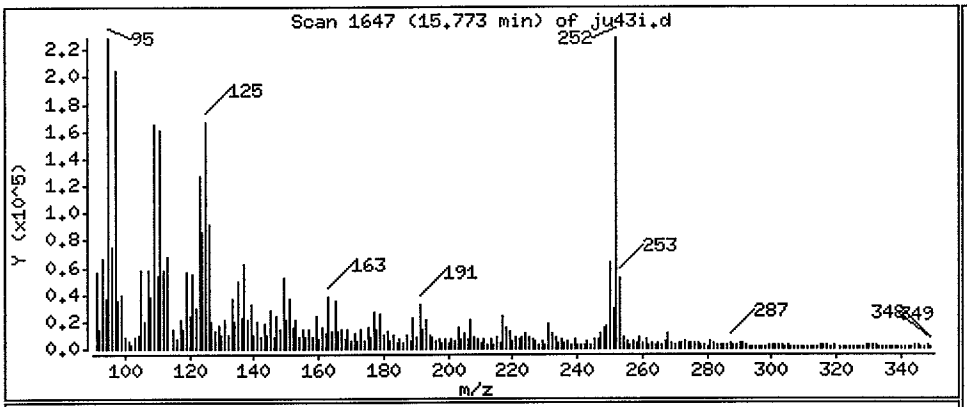
Operator: VTS

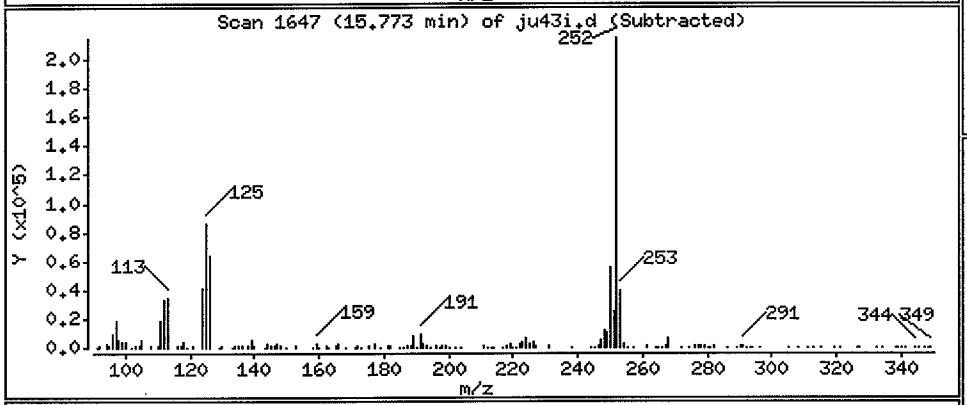
Column phase: ZB-5

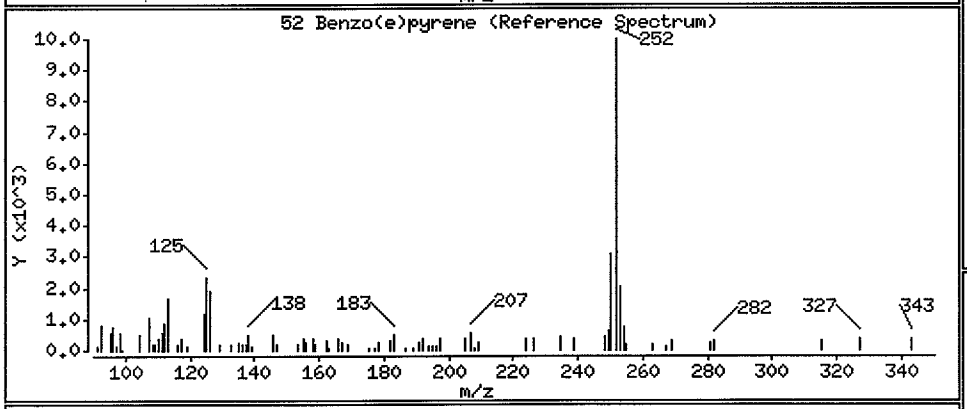
Column diameter: 0.25

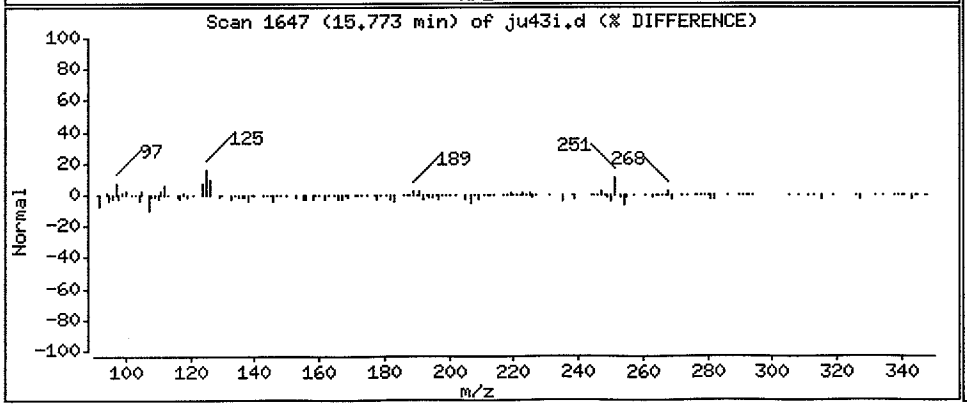
52 Benzo(e)pyrene

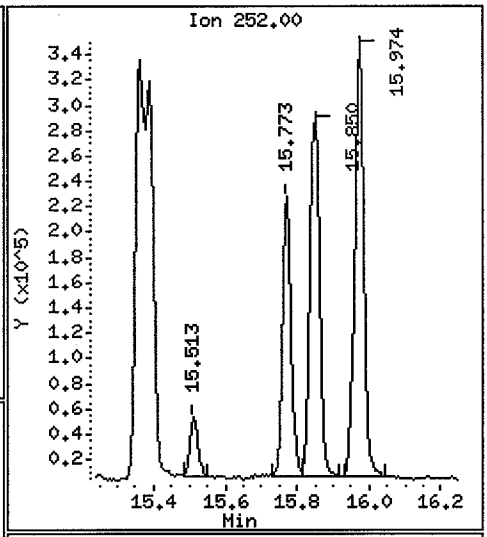
Concentration: 220.0 ug/kg

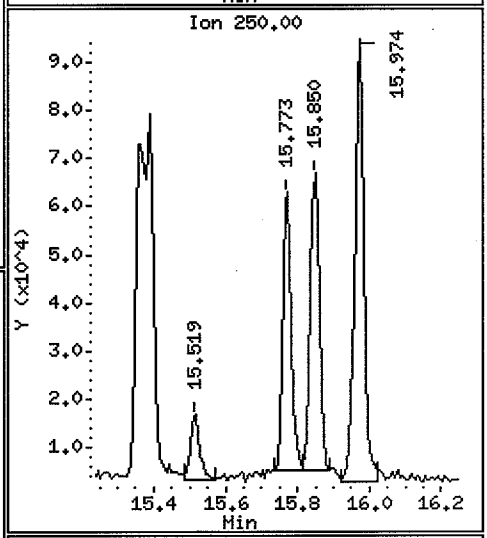


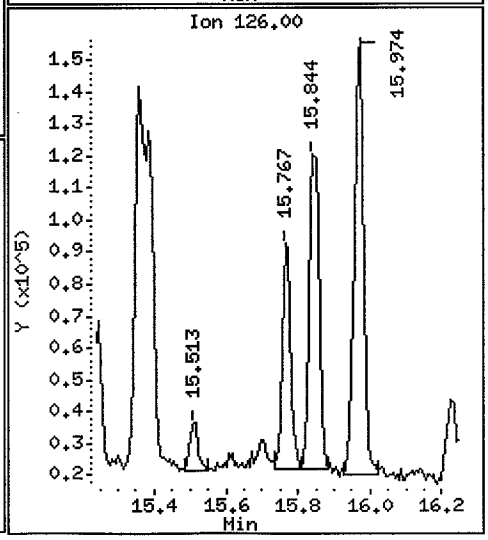












Data File: /chem3/nt1.i/20060912.b/ju43i.d

Date : 12-SEP-2006 16:45

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I

Volume Injected (uL): 1.0

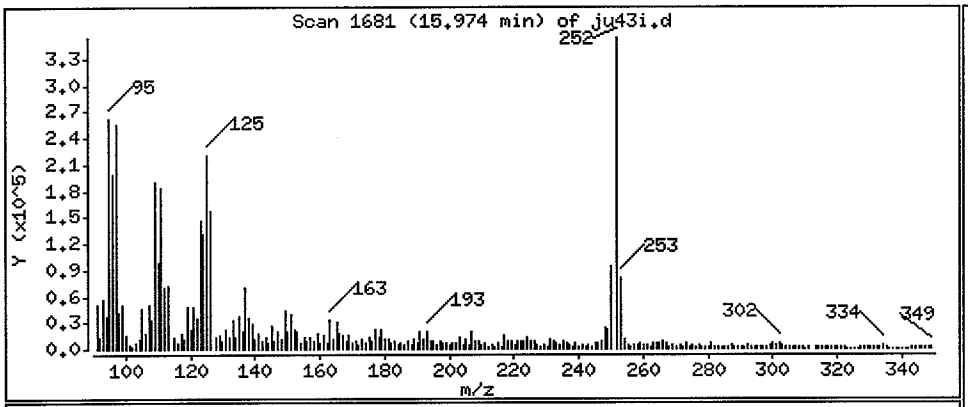
Operator: VTS

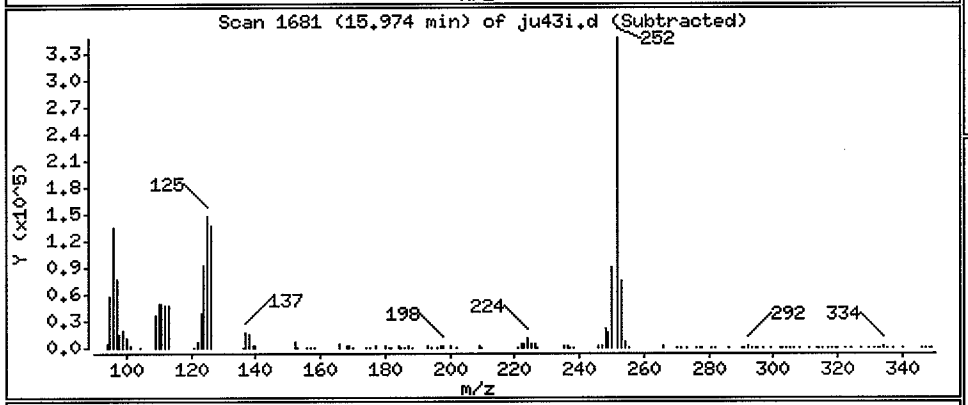
Column phase: ZB-5

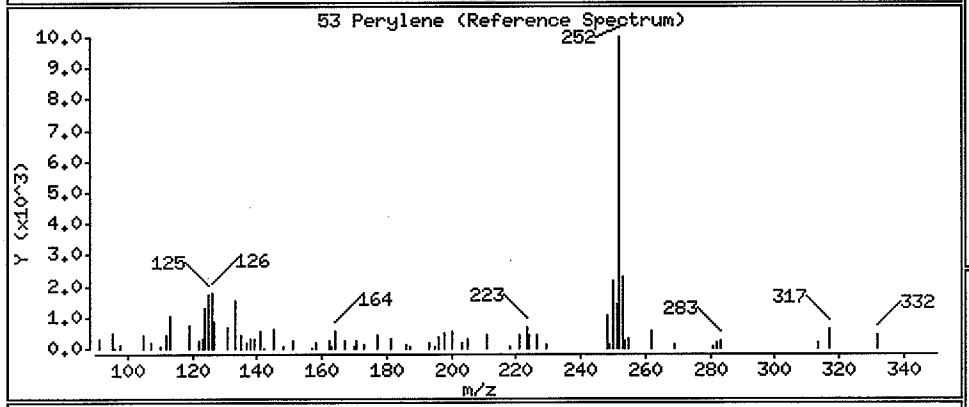
Column diameter: 0.25

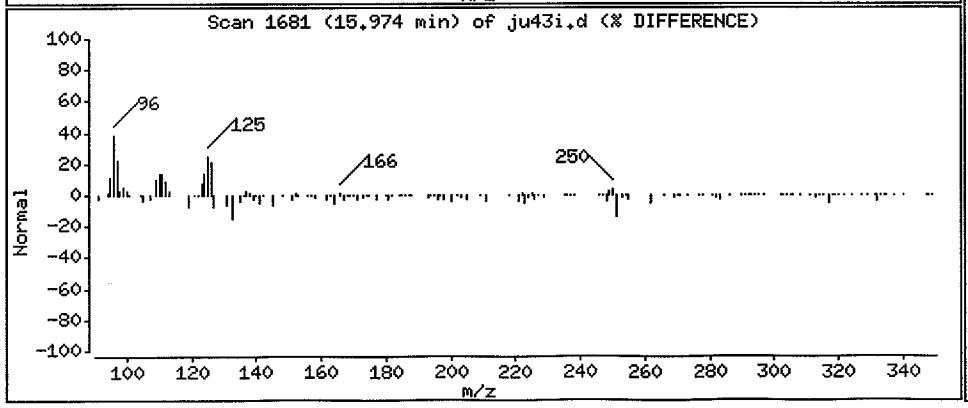
53 Perylene

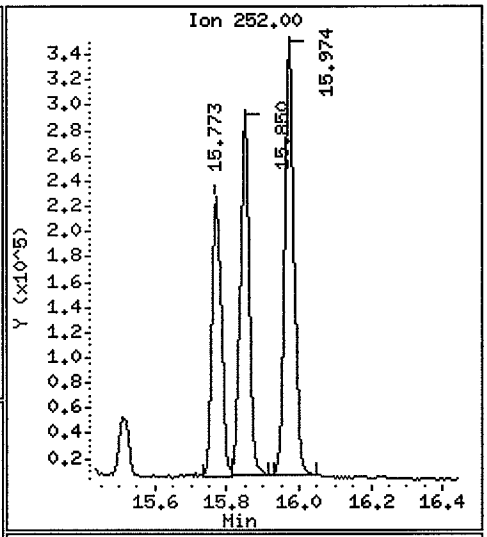
Concentration: 368.8 ug/kg

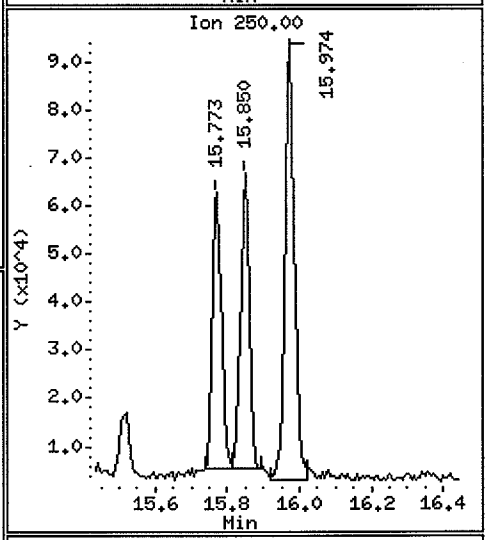


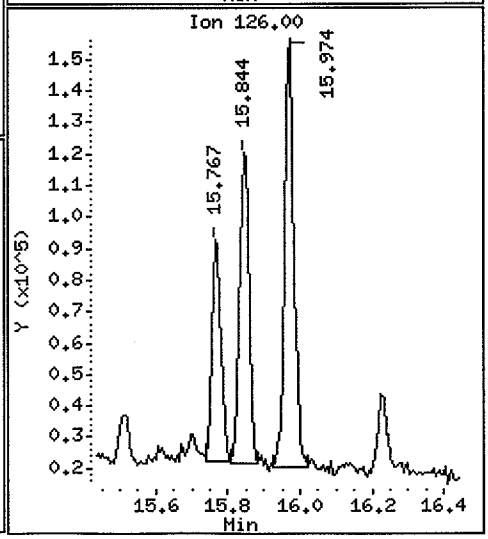












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-B414-04-F
DILUTION

Lab Sample ID: JU43I
LIMS ID: 06-15853
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/14/06 09:27
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 44.1%
pH: 6.8

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	15	40	
91-57-6	2-Methylnaphthalene	15	24	
90-12-0	1-Methylnaphthalene	15	10	J
208-96-8	Acenaphthylene	15	12	J
83-32-9	Acenaphthene	15	61	
86-73-7	Fluorene	15	48	
85-01-8	Phenanthrene	15	300	
120-12-7	Anthracene	15	58	
206-44-0	Fluoranthene	15	590	
129-00-0	Pyrene	15	480	
56-55-3	Benzo(a)anthracene	15	250	
218-01-9	Chrysene	15	350	
205-99-2	Benzo(b)fluoranthene	15	340	
207-08-9	Benzo(k)fluoranthene	15	270	
50-32-8	Benzo(a)pyrene	15	320	
193-39-5	Indeno(1,2,3-cd)pyrene	15	200	
53-70-3	Dibenz(a,h)anthracene	15	59	
191-24-2	Benzo(g,h,i)perylene	15	240	
198-55-0	Perylene	15	390	
92-52-4	Biphenyl	15	< 15	U
581-42-0	2,6-Dimethylnaphthalene	15	16	
832-69-9	1-Methylphenanthrene	15	28	M
192-97-2	Benzo(e)pyrene	15	220	
2245-38-7	2,3,5-Trimethylnaphthalene	15	16	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	88.0%
d14-Dibenzo(a,h)anthracen	81.0%

0877

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060914.b/ju43idl.d
Lab Smp Id: JU43I Client Smp ID: T4-B414-04-F
Inj Date : 14-SEP-2006 09:27
Operator : VTS Inst ID: nt1.i
Smp Info : JU43I,3
Misc Info : 06-15853
Comment : 1ul Injection
Method : /chem3/nt1.i/20060913.b/simpna.m
Meth Date : 14-Sep-2006 09:42 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 5
Dil Factor: 3.00000
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	3.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	18.10000	Weight of sample extracted (g)
M	44.10000	% 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	6.812	6.807	(1.000)	325607	2.00000		
	2 Naphthalene	128	6.836	6.831	(1.003)	42865	0.27401	40.62	
$	3 2-Methylnaphthalene-d10	152	7.569	7.563	(1.111)	71327	0.88342	131.0	
	4 2-Methylnaphthalene	142	7.604	7.599	(1.116)	13616	0.16377	24.28	
	5 1-Methylnaphthalene	142	7.734	7.729	(1.135)	6215	0.06889	10.21	J
	7 Acenaphthylene	152	8.692	8.686	(0.980)	10722	0.08100	12.01	J
*	8 Acenaphthene-d10	164	8.869	8.864	(1.000)	161112	2.00000		
	9 Acenaphthene	153	8.905	8.905	(1.004)	32837	0.41075	60.90	
	10 Dibenzofuran	168	9.094	9.094	(1.025)	17493	~~0.15397~~	22.83	NR
	11 Fluorene	166	9.519	9.514	(1.073)	28169	0.32477	48.15	
*	15 Phenanthrene-d10	188	10.678	10.672	(1.000)	211272	2.00000		
	16 Phenanthrene	178	10.707	10.702	(1.003)	231847	2.02445	300.1	
	17 Anthracene	178	10.760	10.761	(1.008)	45544	0.39431	58.46	
	19 Fluoranthene	202	12.197	12.197	(1.142)	389620	3.98569	590.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.486	12.481	(0.893)	391234	3.25066	481.9	
	22 Benzo(a)anthracene	228	13.970	13.964	(0.999)	171181	1.66966	247.5	
*	23 Chrysene-d12	240	13.987	13.982	(1.000)	171007	2.00000		
	24 Chrysene	228	14.023	14.017	(1.003)	224080	2.32587	344.8	
	28 Benzo(b)fluoranthene	252	15.347	15.335	(0.965)	231248	2.27461	337.2	
	29 Benzo(k)fluoranthene	252	15.364	15.365	(0.966)	194751	1.83419	271.9	(M)
	30 Benzo(a)pyrene	252	15.825	15.814	(0.995)	194132	2.11711	313.9	
*	31 Perylene-d12	264	15.908	15.897	(1.000)	179531	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.823	17.806	(1.120)	135579	1.37729	204.2	
$	32 Dibenz(a,h)anthrancene-d14	292	17.740	17.729	(1.115)	47868	0.81364	120.6	
	34 Dibenz(a,h)anthracene	278	17.811	17.794	(1.120)	31736	0.39778	58.97	
	35 Benzo(g,h,i)perylene	276	18.390	18.367	(1.156)	141170	1.62270	240.6	
	48 Biphenyl	154	8.142	8.137	(0.918)	6226	0.06232	9.239	J
	49 2,6-Dimethylnaphthalene	156	8.331	8.332	(0.939)	8342	0.11053	16.39	
	50 2,3,5-Trimethylnaphthalene	170	9.348	9.354	(1.054)	6470	0.10853	16.09	
	51 1-Methylphenanthrene	192	11.481	11.476	(0.821)	15235	0.18875	27.98	M
	52 Benzo(e)pyrene	252	15.749	15.737	(0.990)	153645	1.50405	223.0	
	53 Perylene	252	15.950	15.938	(1.003)	252561	2.64960	392.8	

QC Flag Legend

M - Compound response manually integrated.

VTS
9-14-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43idl.d
Lab Smp Id: JU43I
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15853

Calibration Date: 13-SEP-2006
Calibration Time: 10:18
Client Smp ID: T4-B414-04-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	337011	168506	674022	325607	-3.38
8 Acenaphthene-d10	171704	85852	343408	161112	-6.17
15 Phenanthrene-d10	223924	111962	447848	211272	-5.65
23 Chrysene-d12	172575	86288	345150	171007	-0.91
31 Perylene-d12	173129	86564	346258	179531	3.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.86	8.36	9.36	8.87	0.06
15 Phenanthrene-d10	10.67	10.17	11.17	10.68	0.05
23 Chrysene-d12	13.98	13.48	14.48	13.99	0.04
31 Perylene-d12	15.90	15.40	16.40	15.91	0.07

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

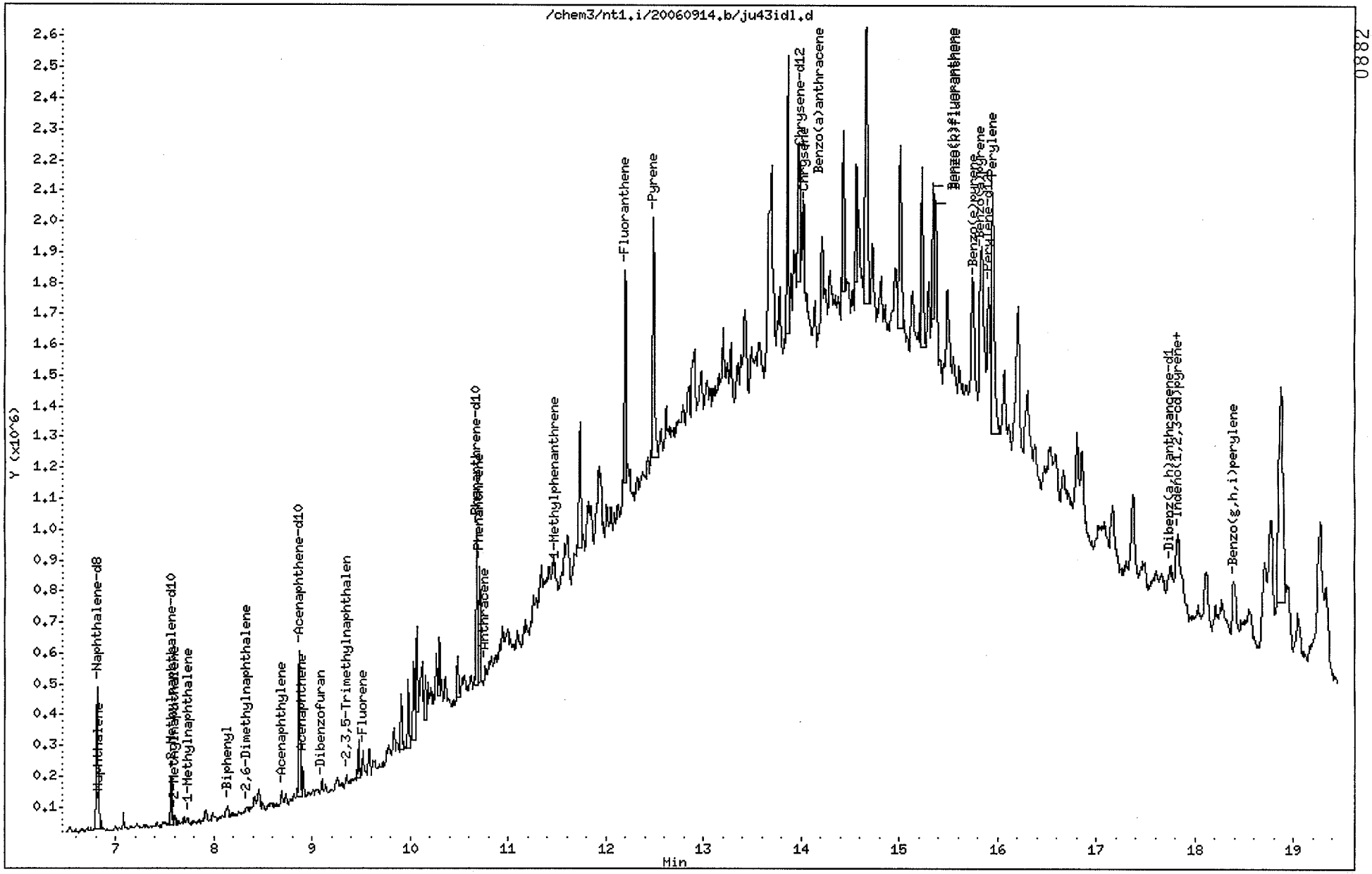
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43I
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15853

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-B414-04-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.3	131.0	88.34	32-97
$ 32 Dibenz(a,h)anthran	148.3	120.6	81.36	21-105

Data File: /chem3/nt1.i/20060914.b/ju43idl.d
Date : 14-SEP-2006 09:27
Client ID: T4-B414-04-F
Sample Info: JU43I,3
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

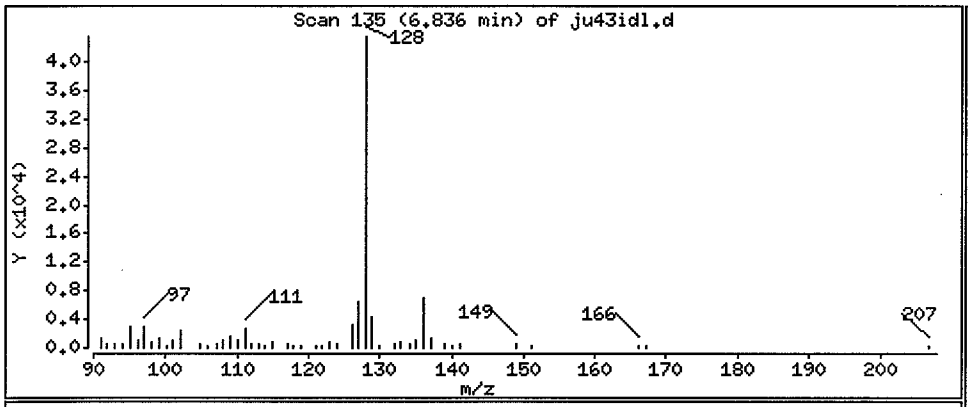
Operator: VTS

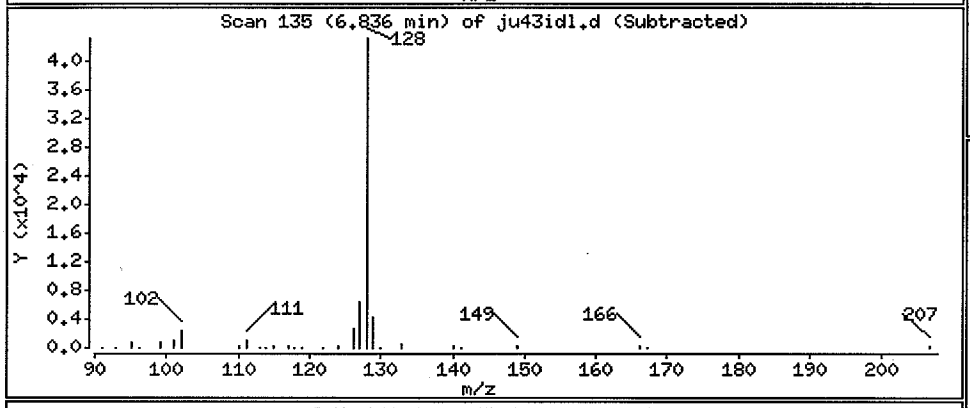
Column phase: ZB-5

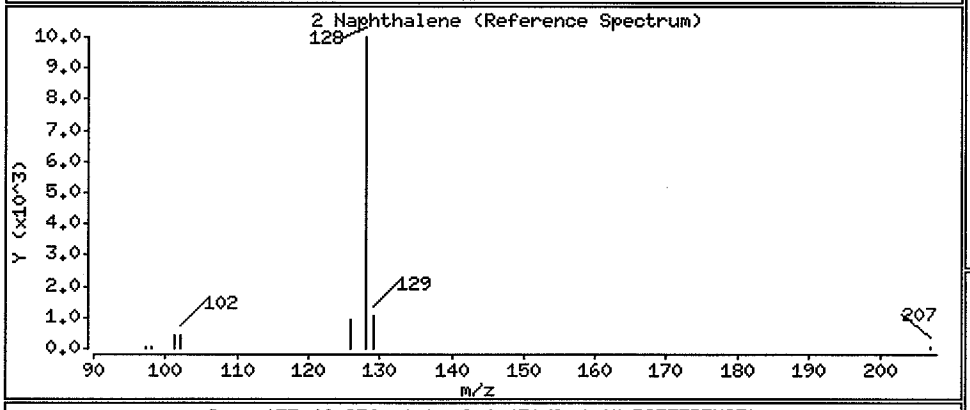
Column diameter: 0.25

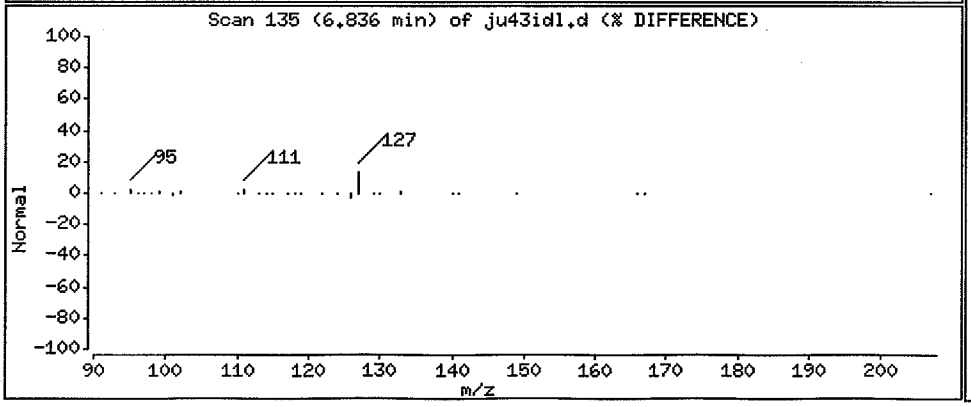
2 Naphthalene

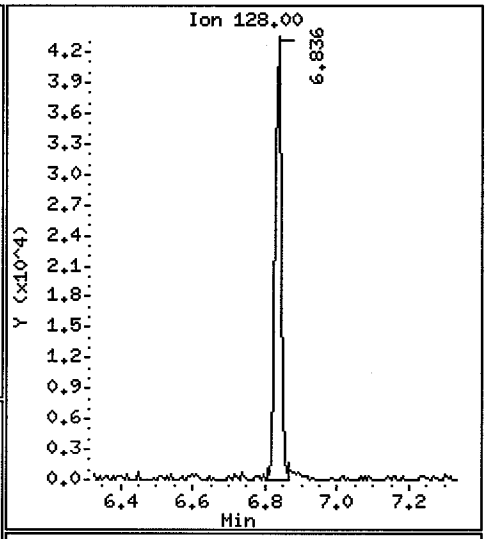
Concentration: 40.62 ug/kg

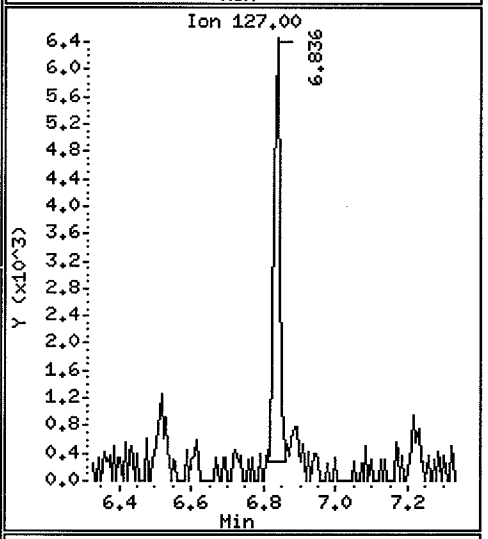


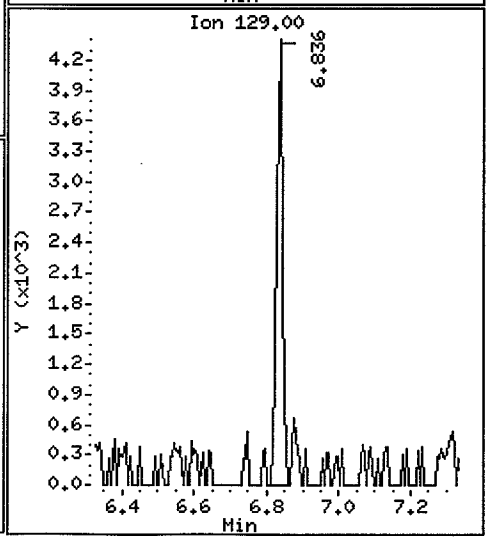












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

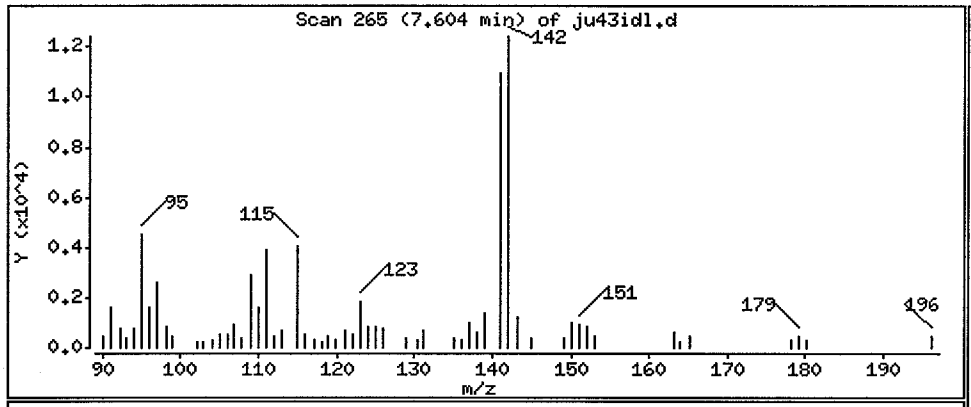
Operator: VTS

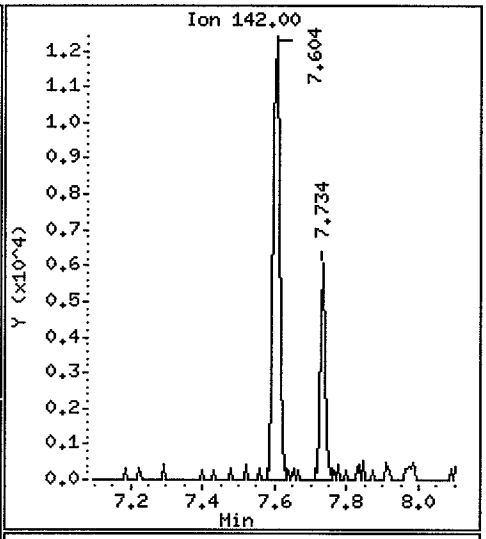
Column phase: ZB-5

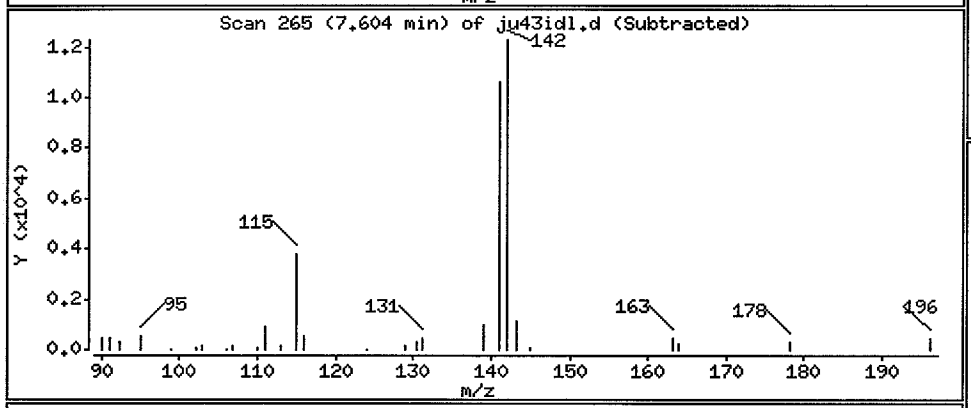
Column diameter: 0.25

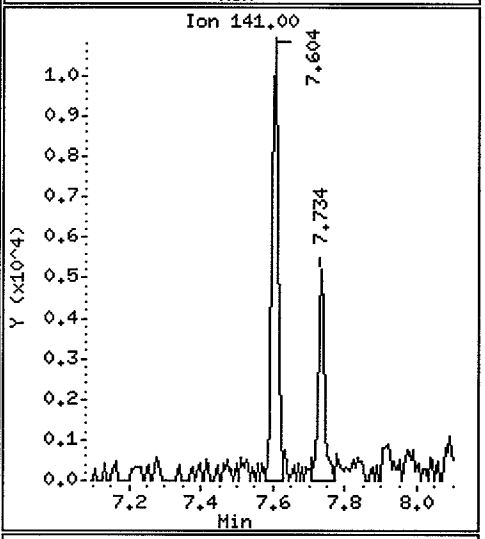
4 2-Methylnaphthalene

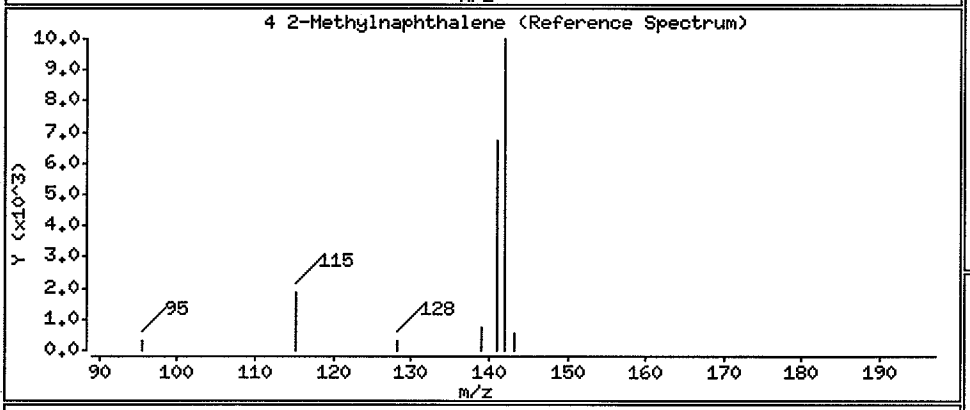
Concentration: 24.28 ug/kg

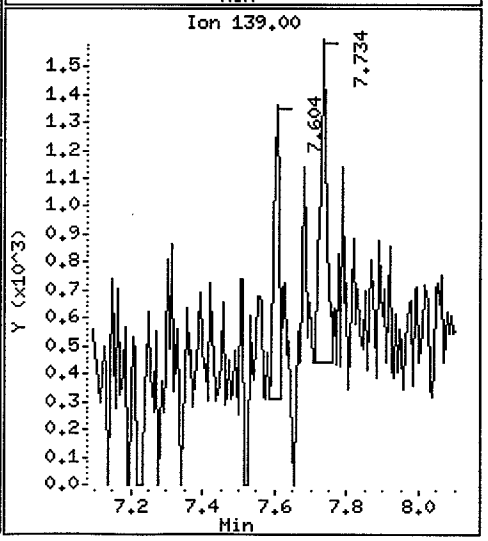


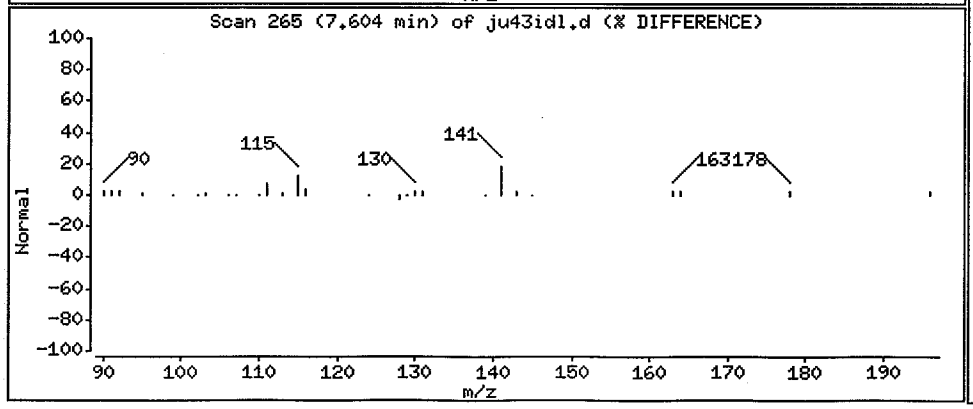












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

Operator: VTS

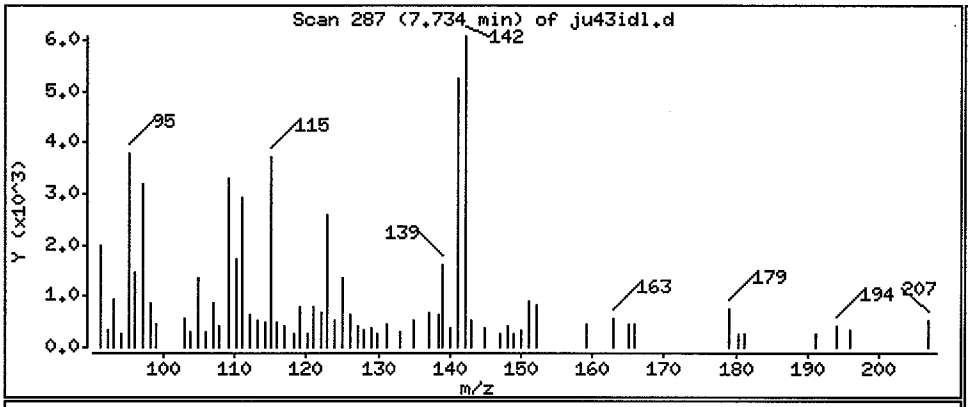
Column phase: ZB-5

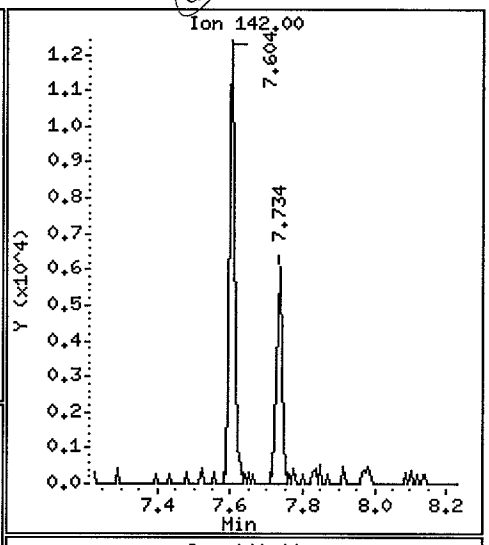
Column diameter: 0.25

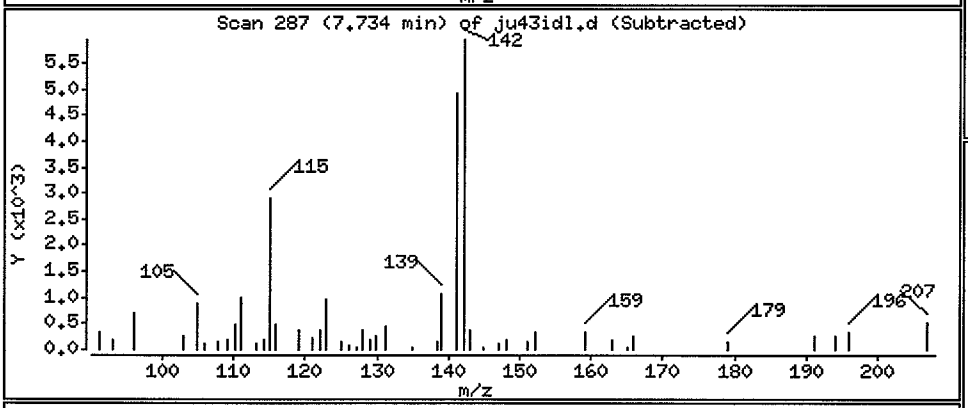
5 1-Methylnaphthalene

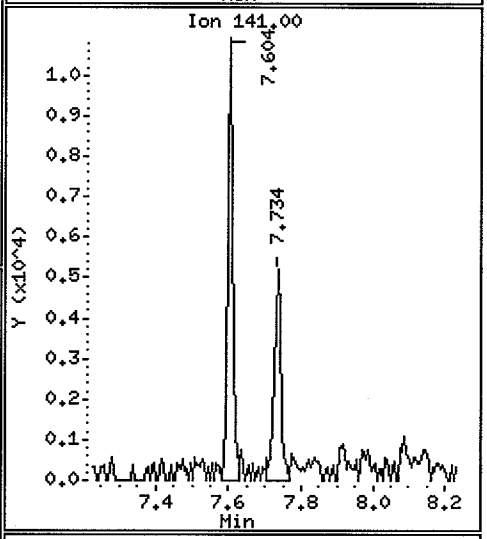
Concentration: 10.21 ug/kg

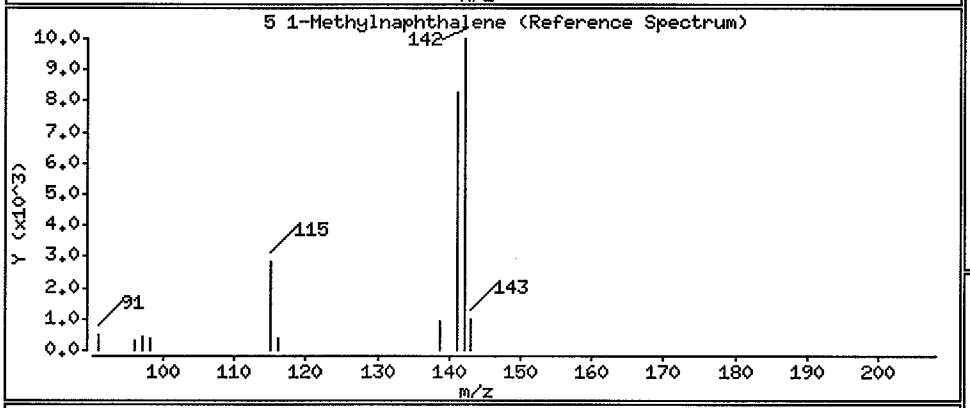
FJLRL

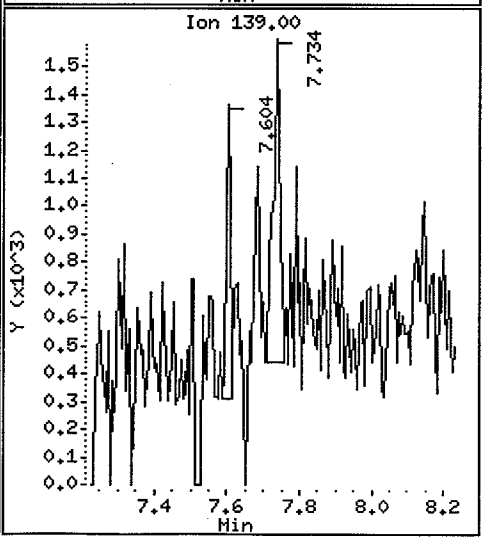


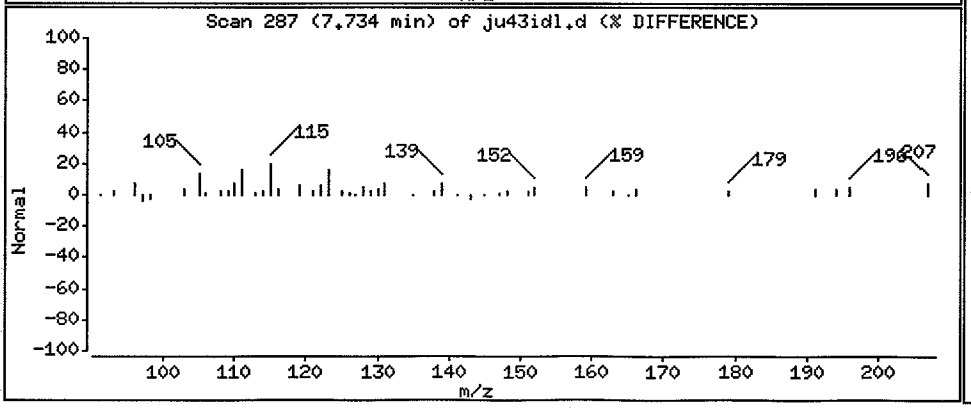












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

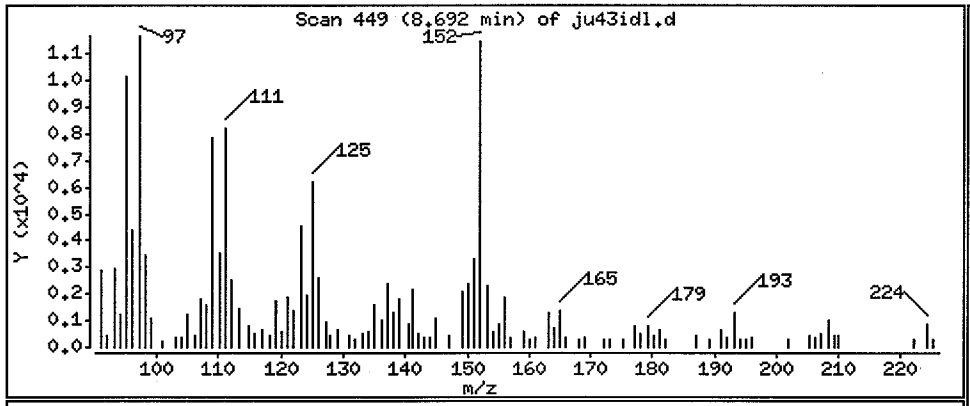
Operator: VTS

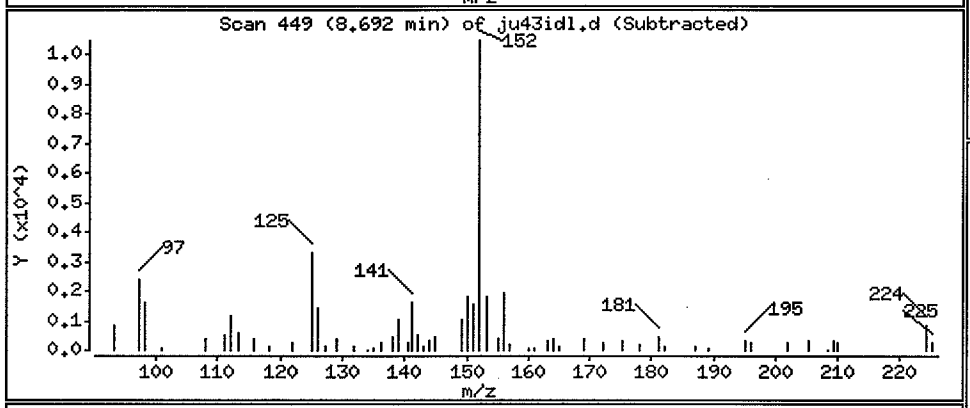
Column phase: ZB-5

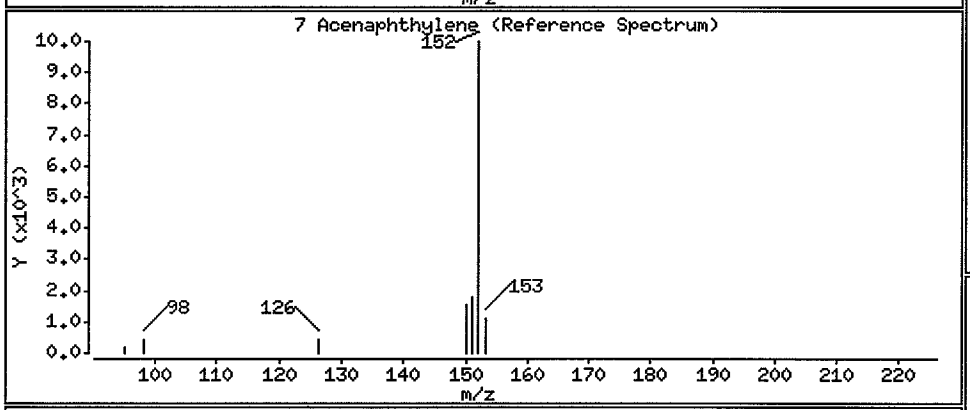
Column diameter: 0.25

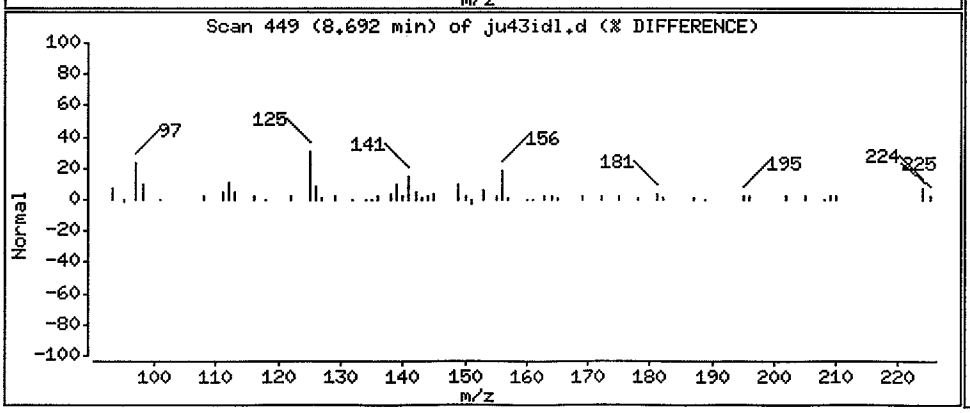
7 Acenaphthylene

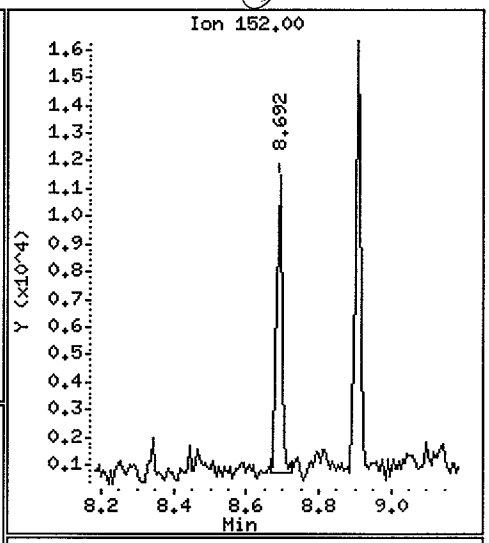
Concentration: 12.01 ug/kg

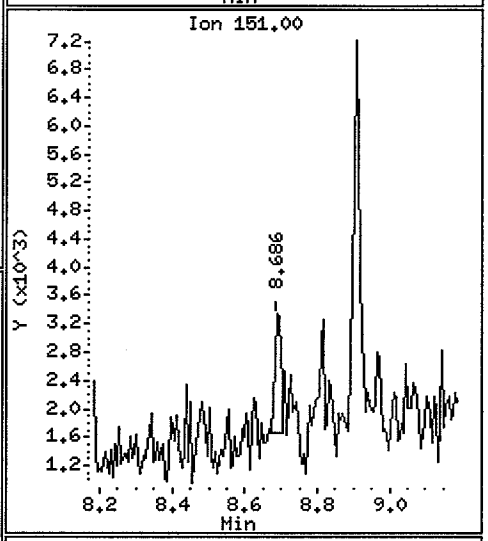


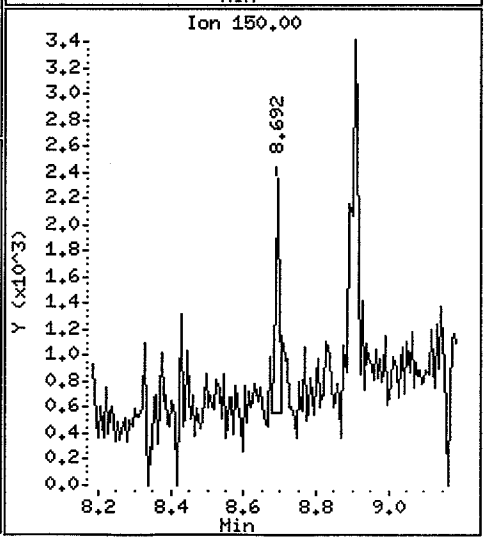












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

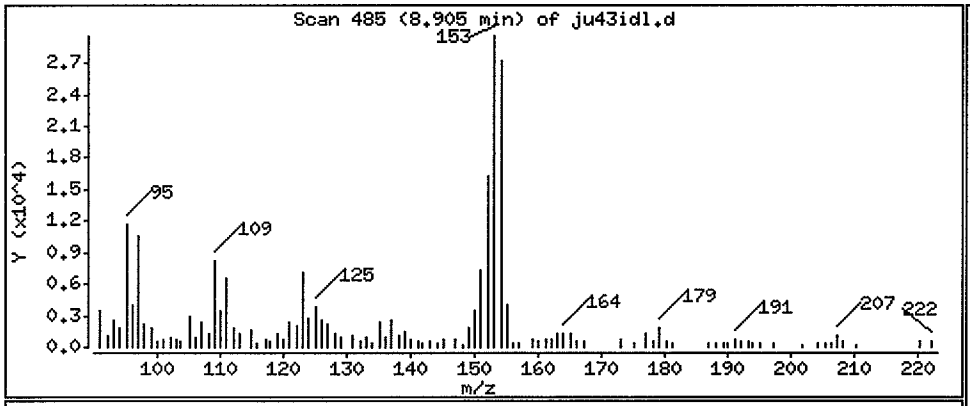
Operator: VTS

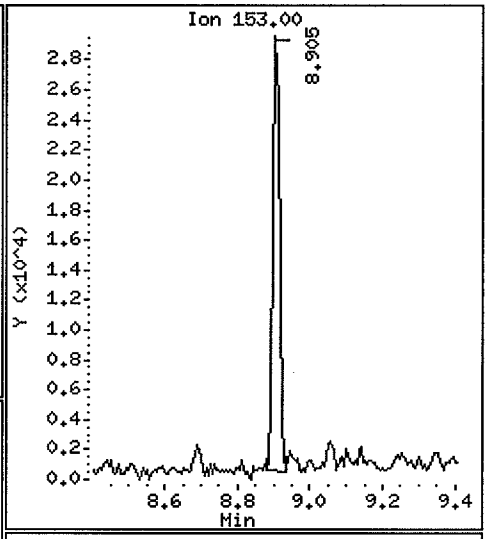
Column phase: ZB-5

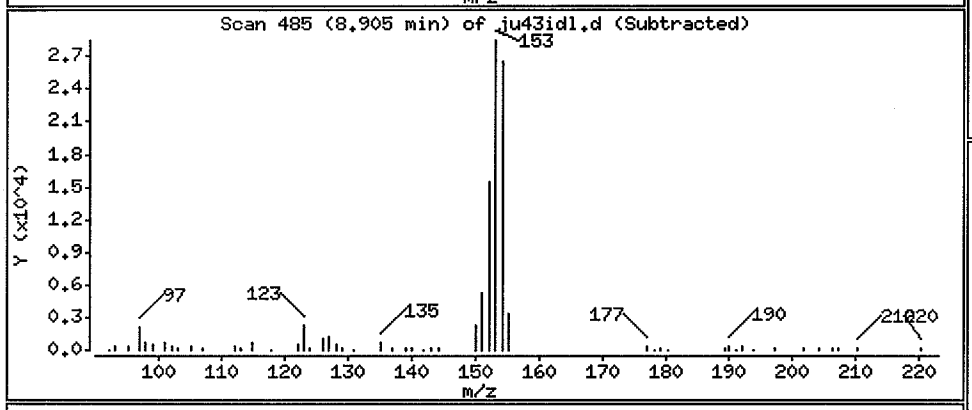
Column diameter: 0.25

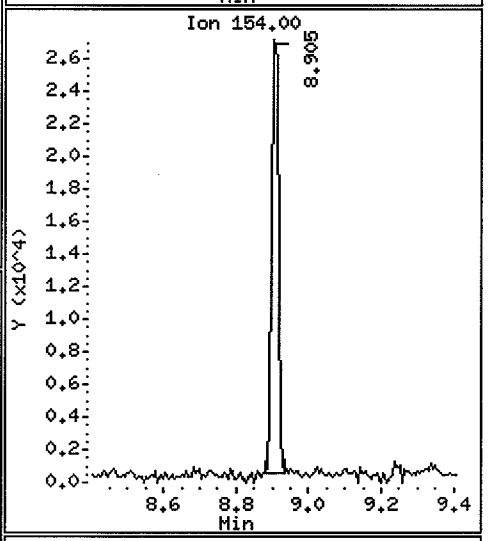
9 Acenaphthene

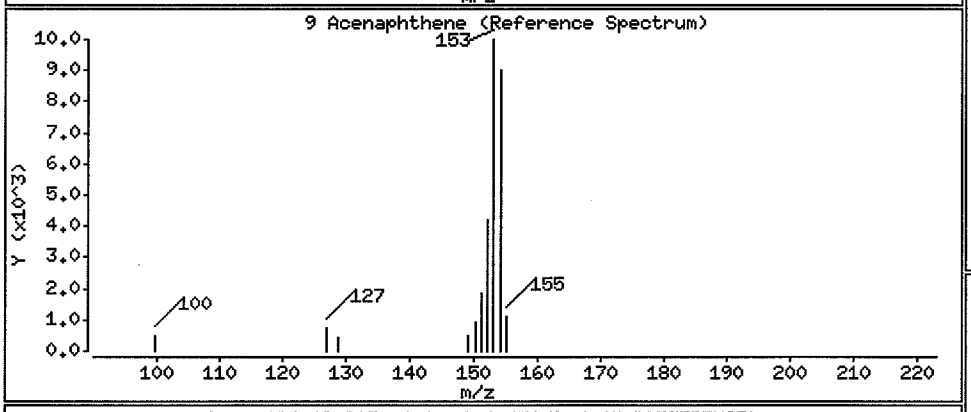
Concentration: 60.90 ug/kg

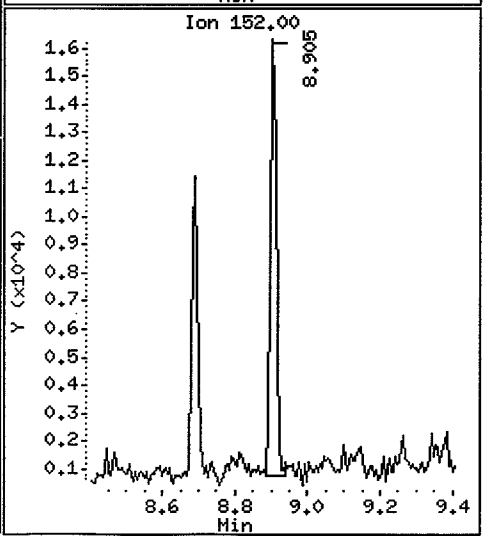


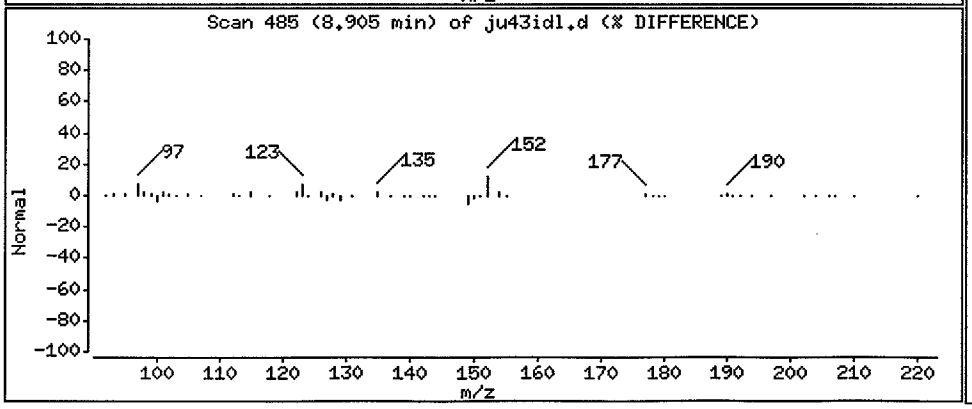












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

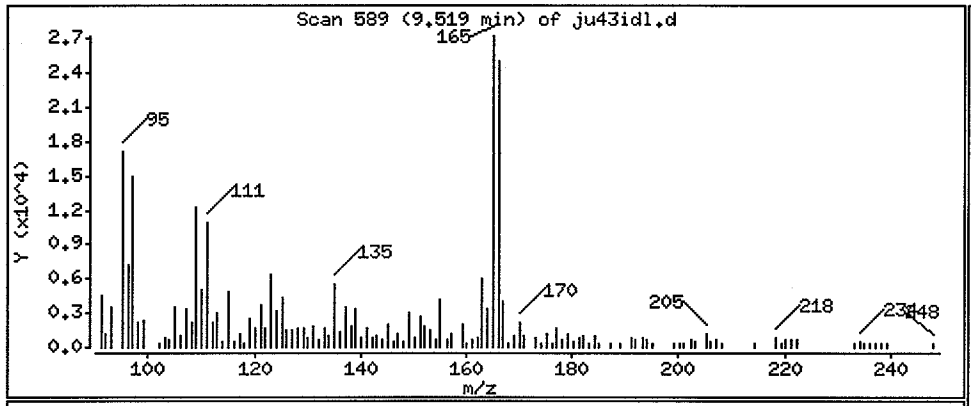
Operator: VTS

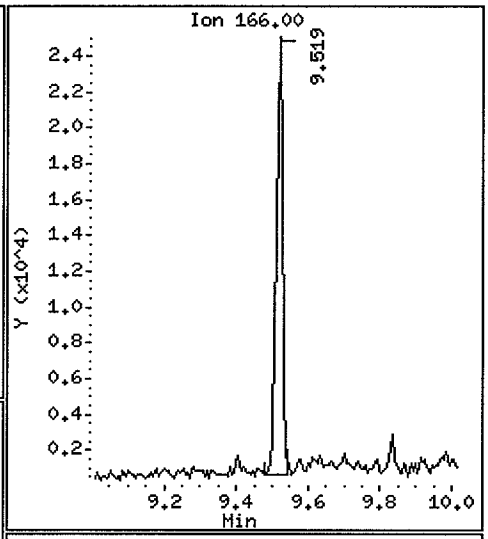
Column phase: ZB-5

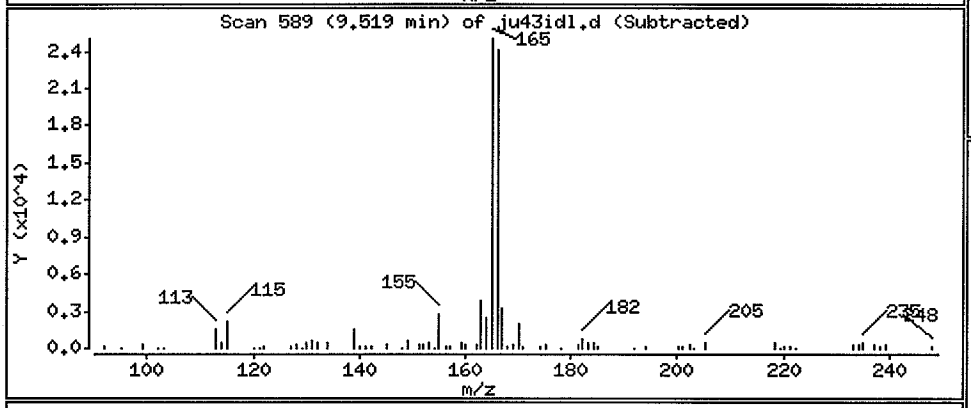
Column diameter: 0.25

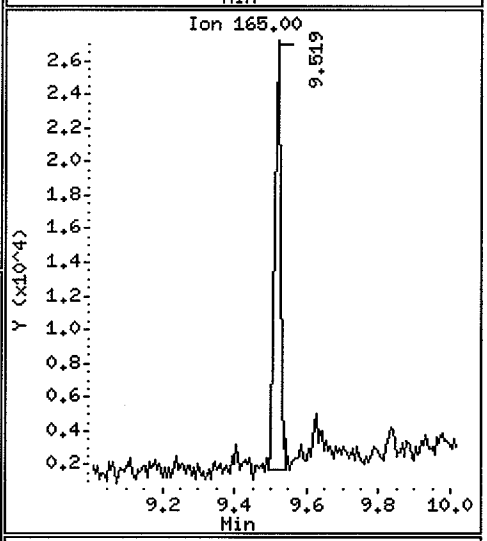
11 Fluorene

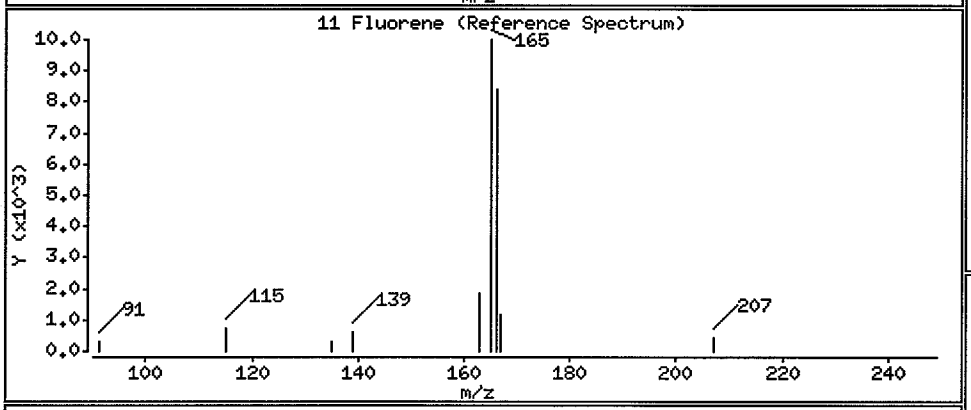
Concentration: 48.15 ug/kg

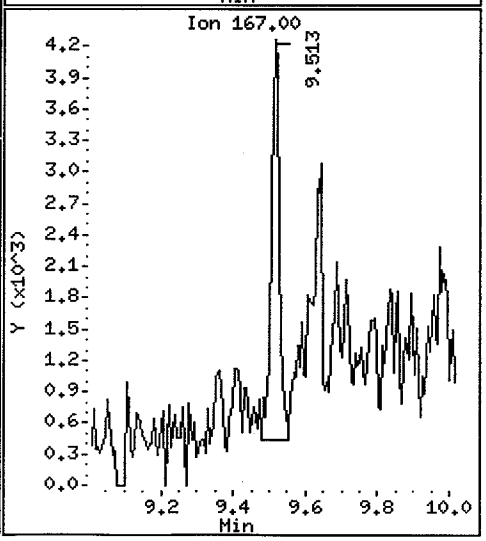


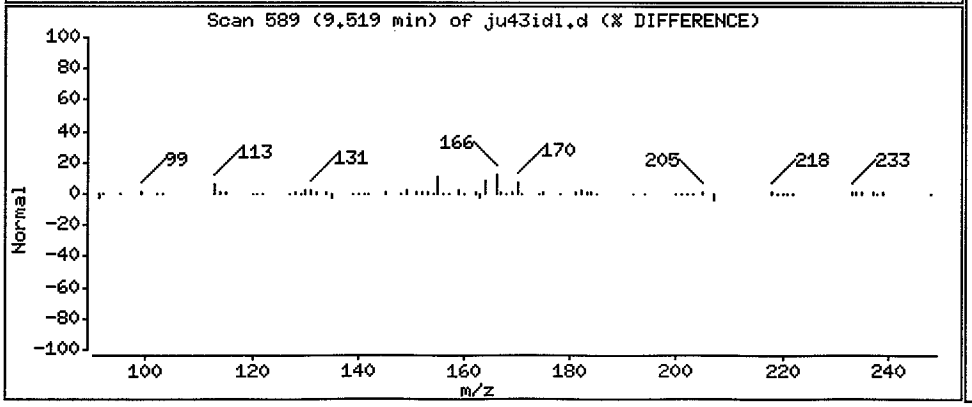












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

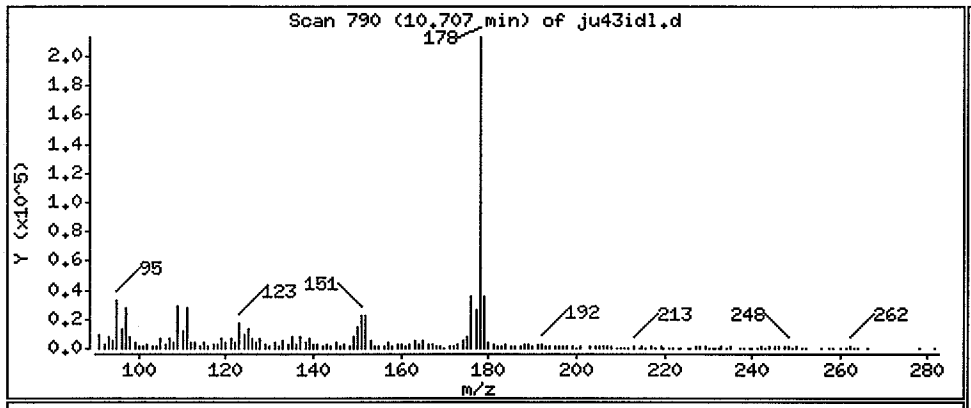
Operator: VTS

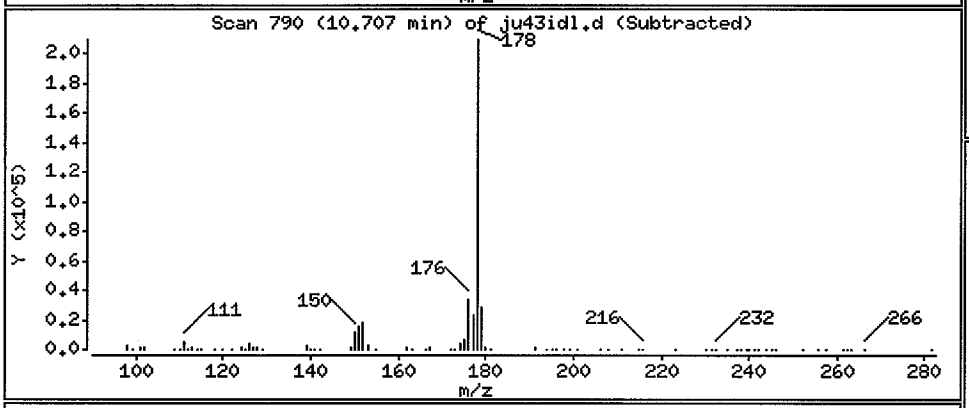
Column phase: ZB-5

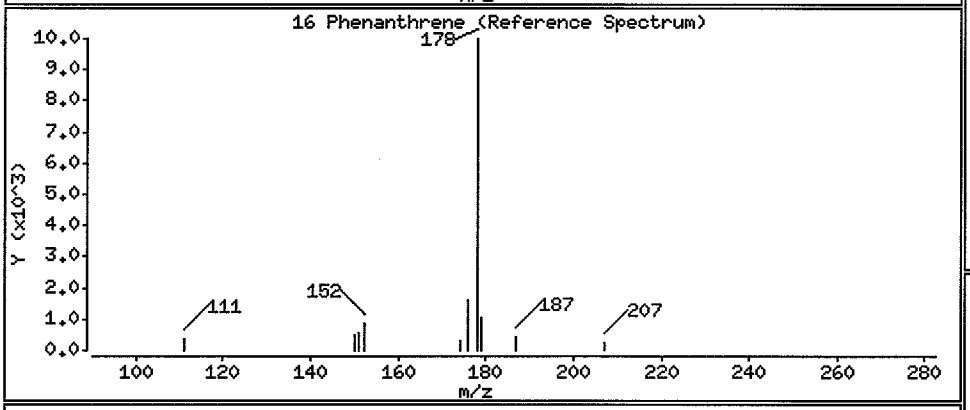
Column diameter: 0.25

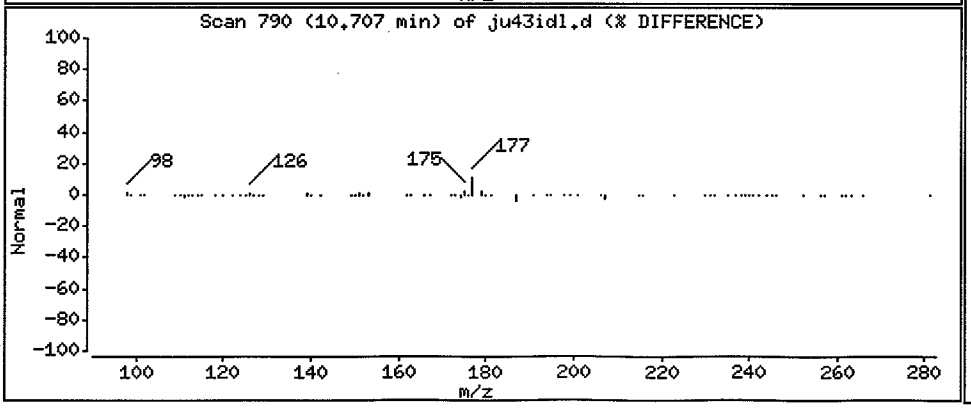
16 Phenanthrene

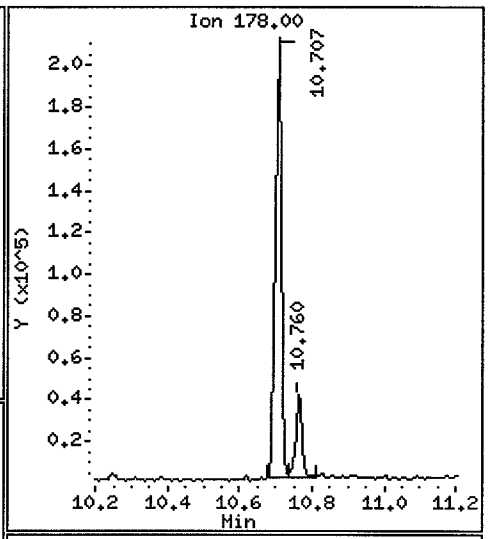
Concentration: 300.1 ug/kg

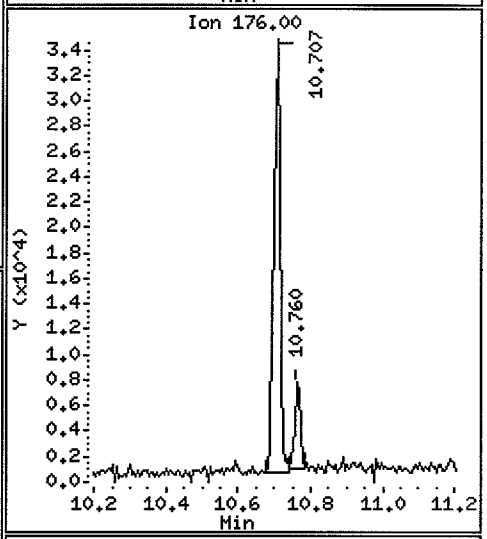


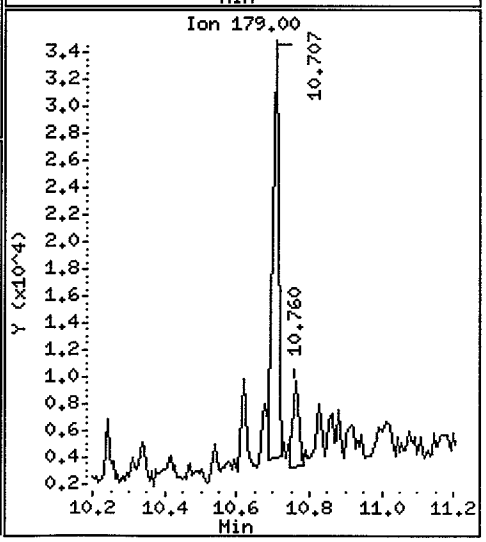












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

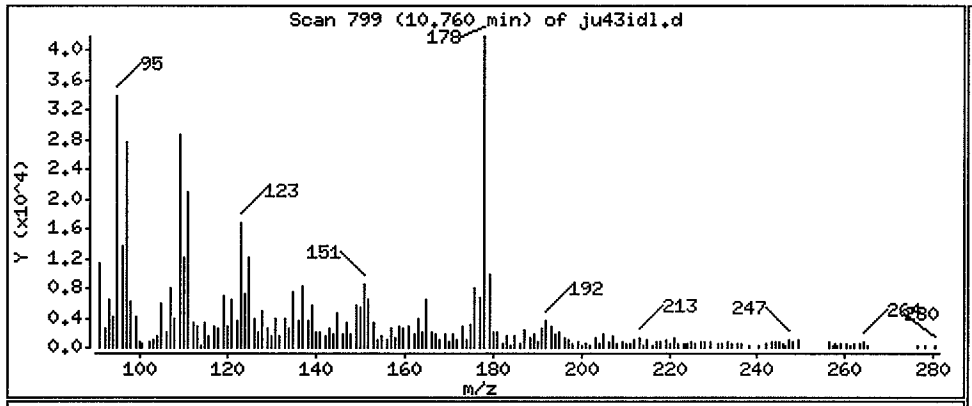
Operator: VTS

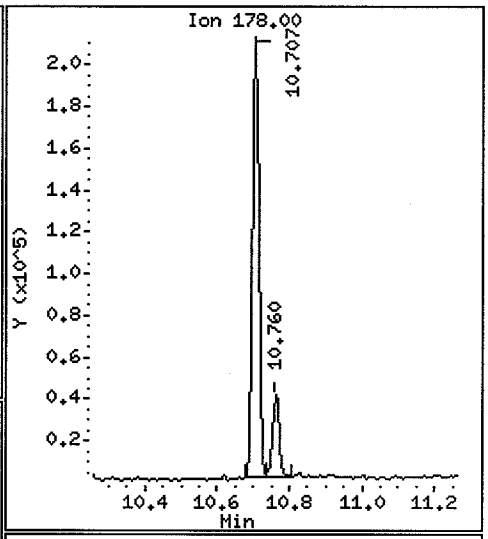
Column phase: ZB-5

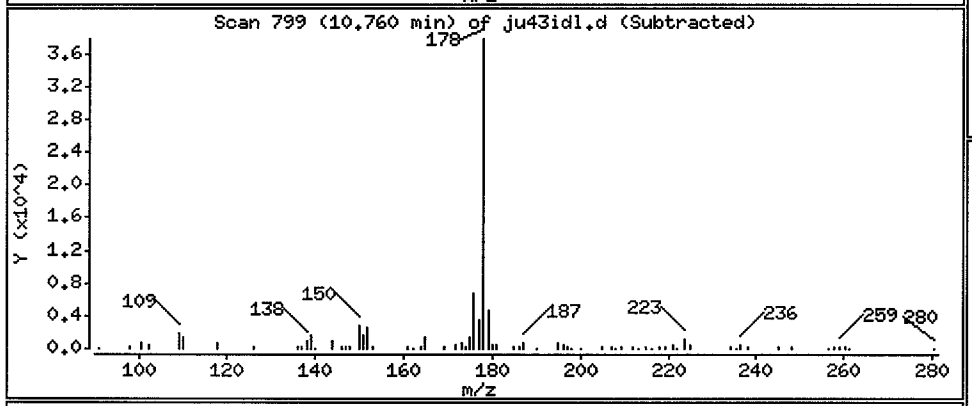
Column diameter: 0.25

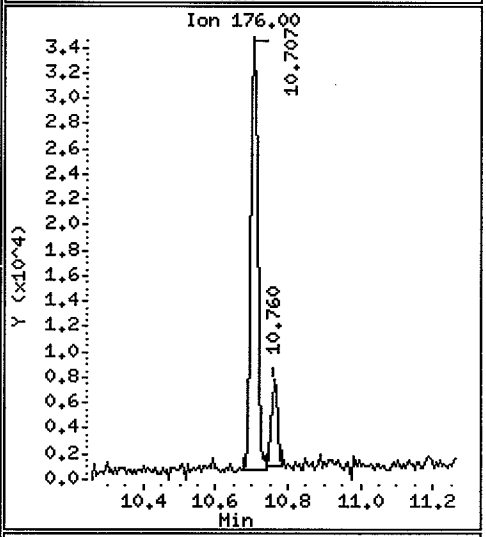
17 Anthracene

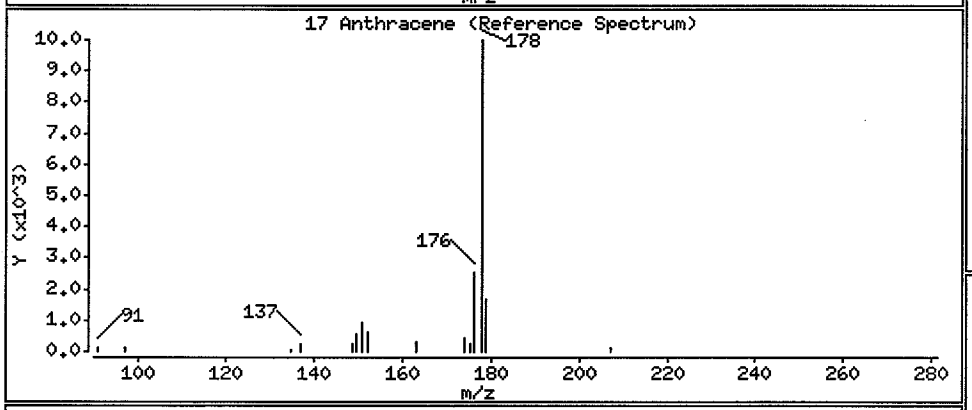
Concentration: 58.46 ug/kg

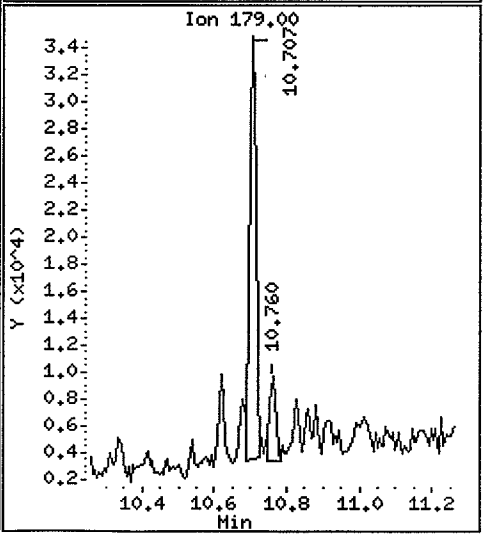


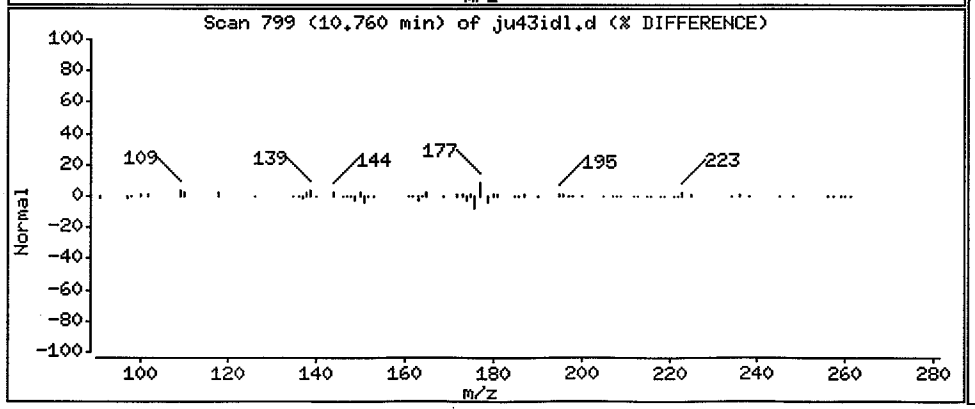












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

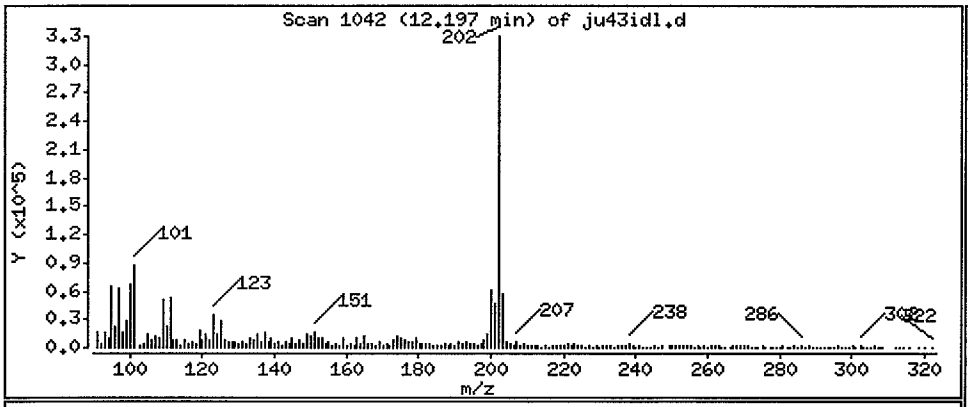
Operator: VTS

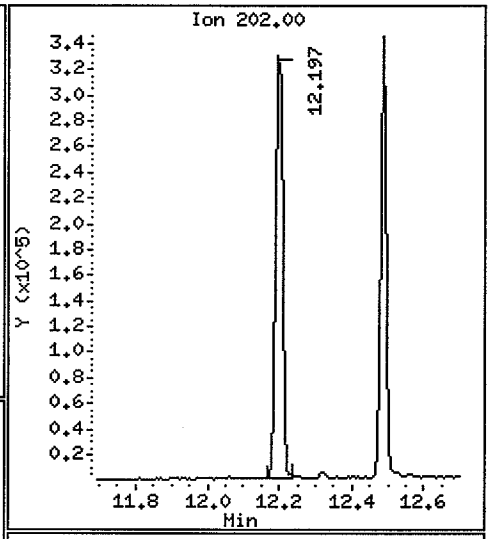
Column phase: ZB-5

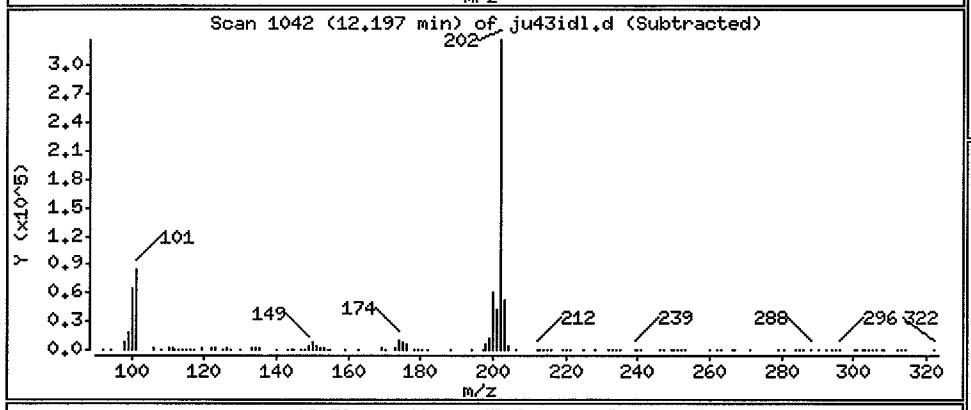
Column diameter: 0.25

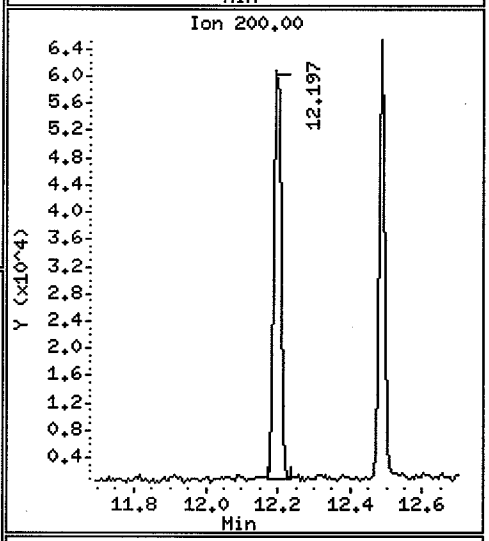
19 Fluoranthene

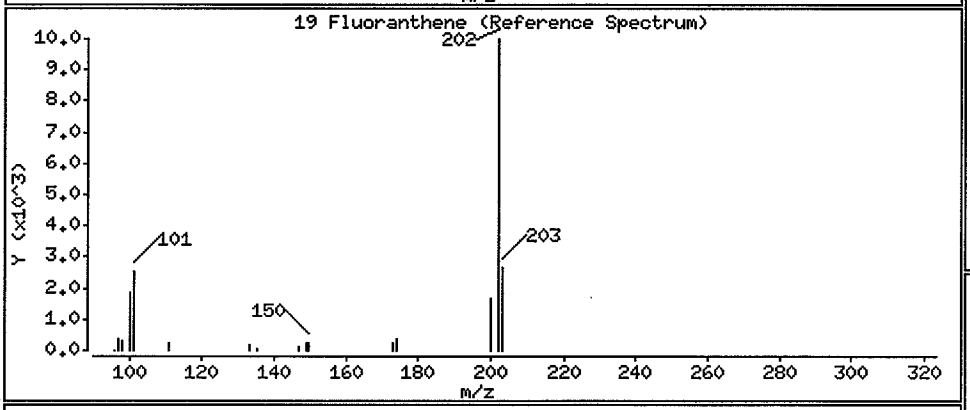
Concentration: 590.9 ug/kg

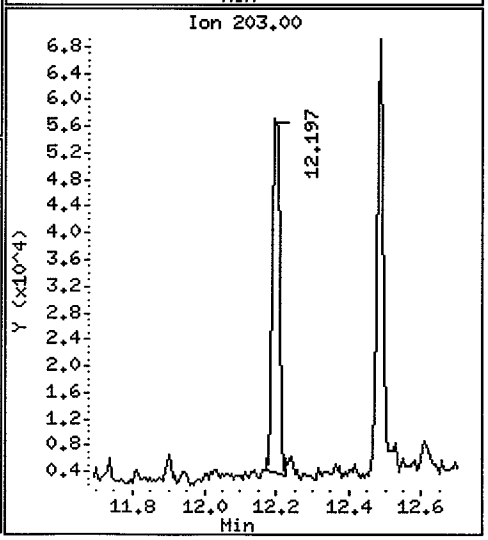


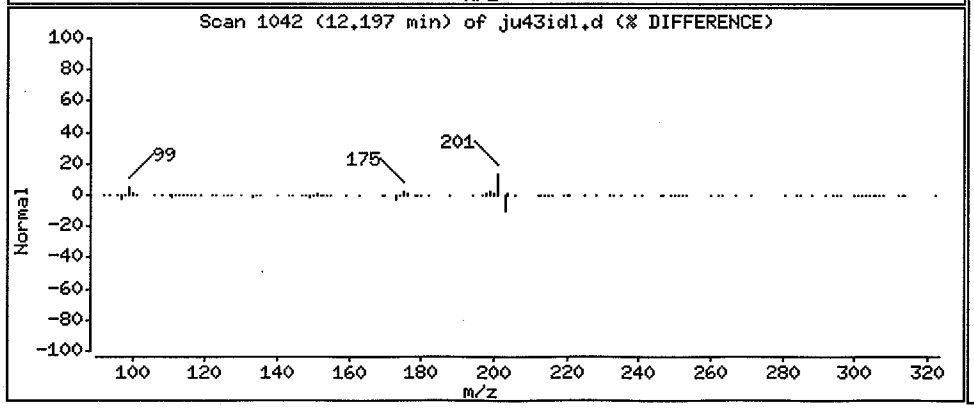












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

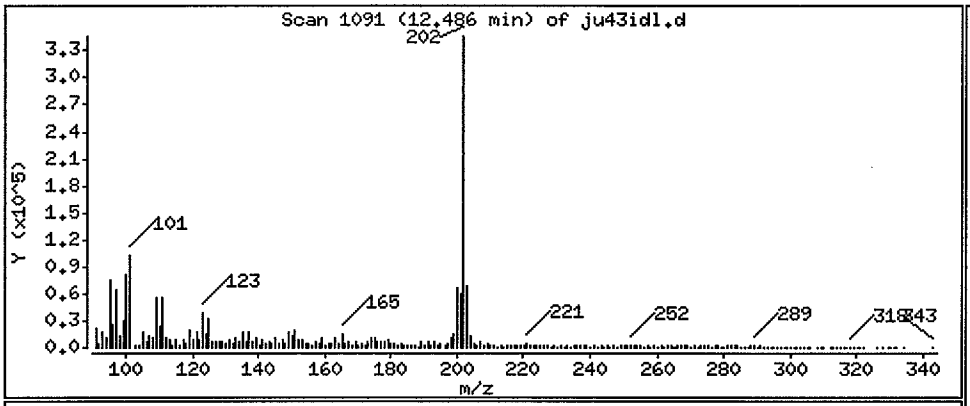
Operator: VTS

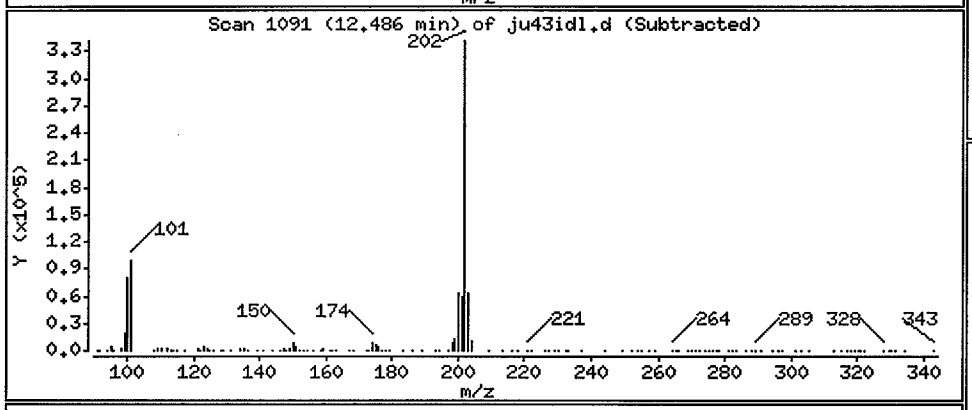
Column phase: ZB-5

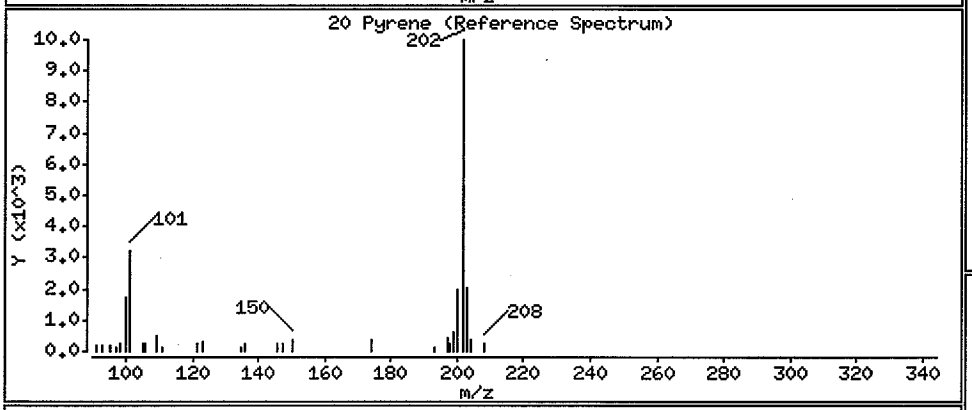
Column diameter: 0.25

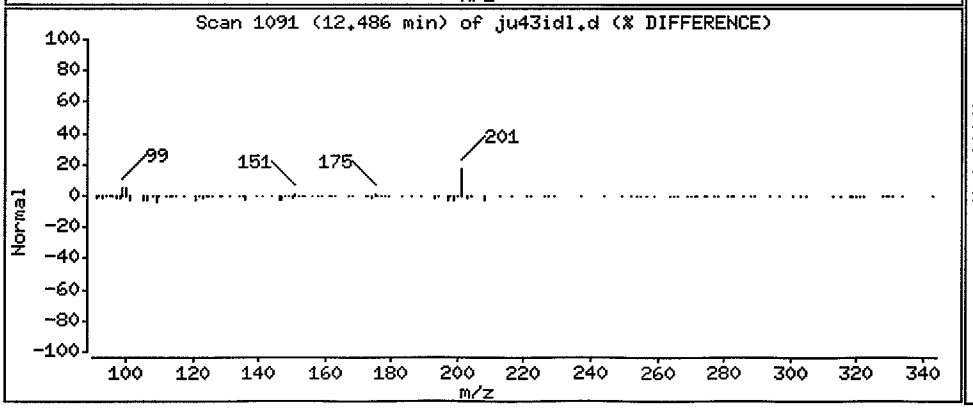
20 Pyrene

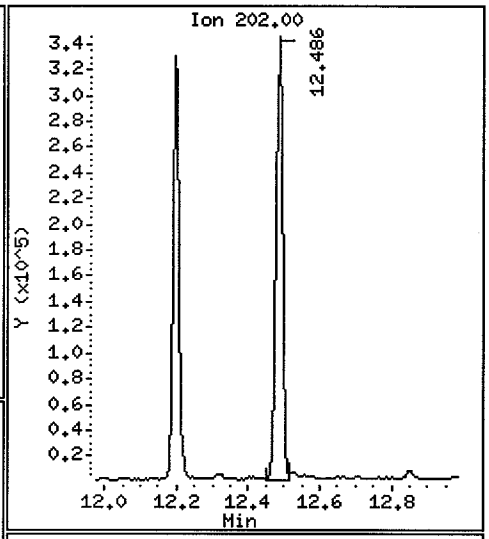
Concentration: 481.9 ug/kg

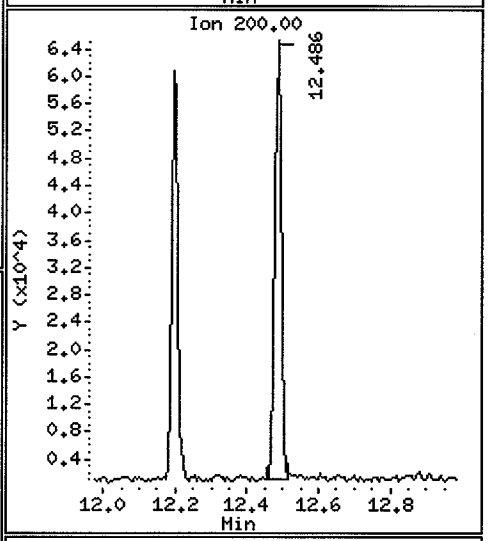


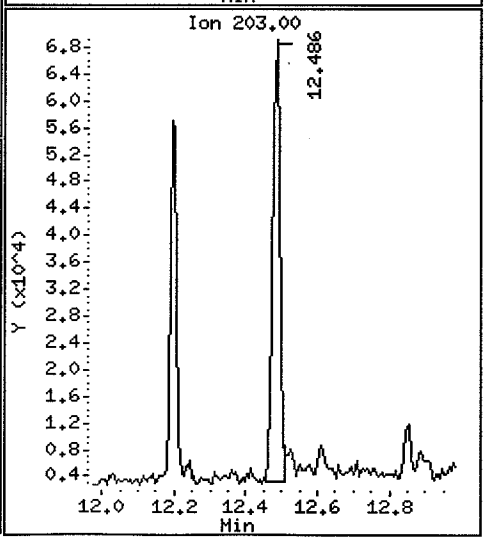












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

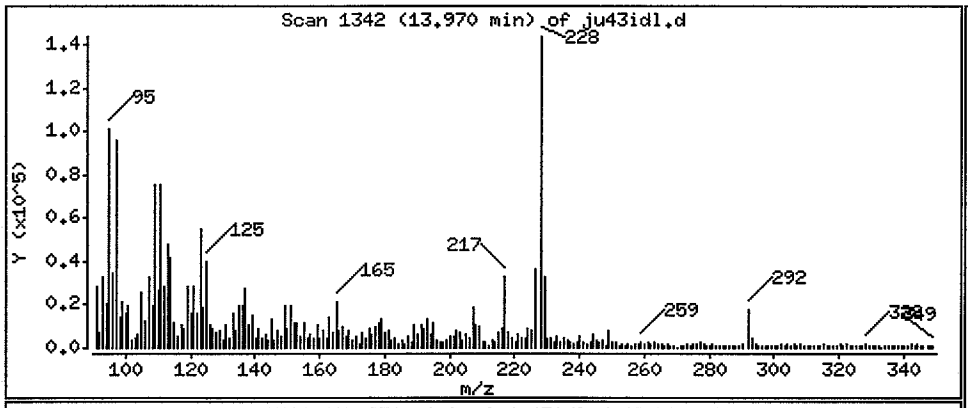
Operator: VTS

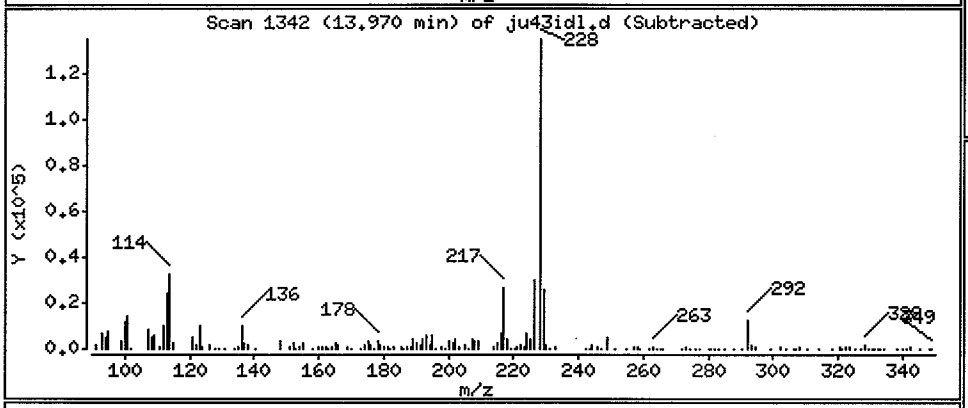
Column phase: ZB-5

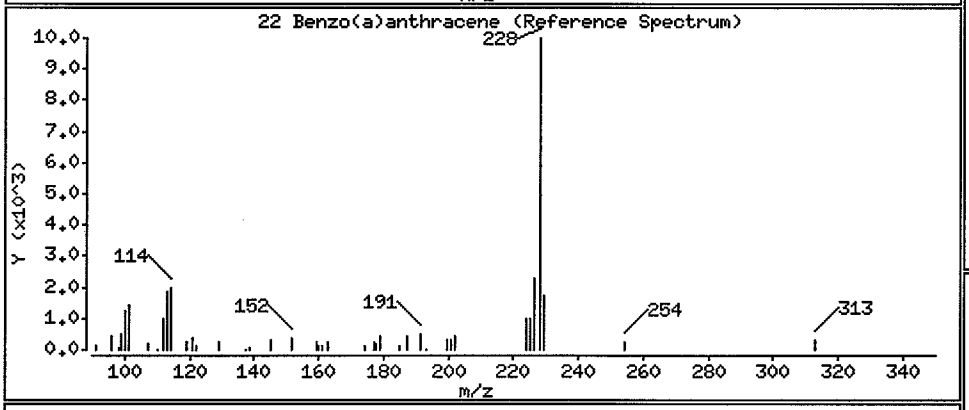
Column diameter: 0.25

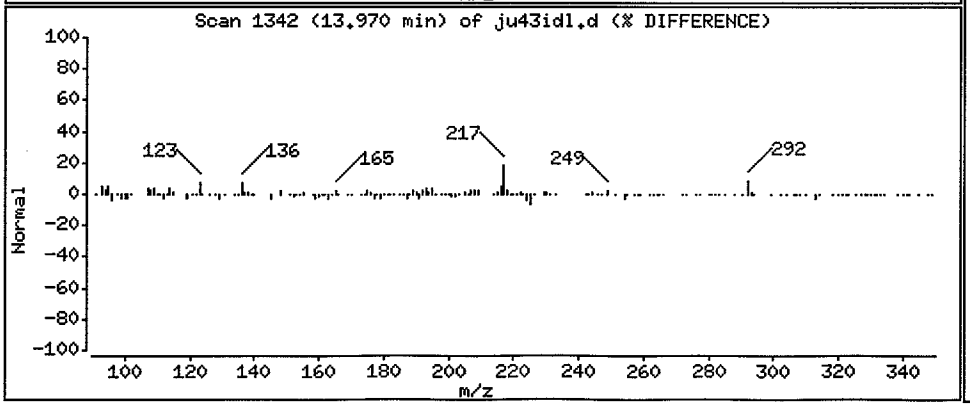
22 Benzo(a)anthracene

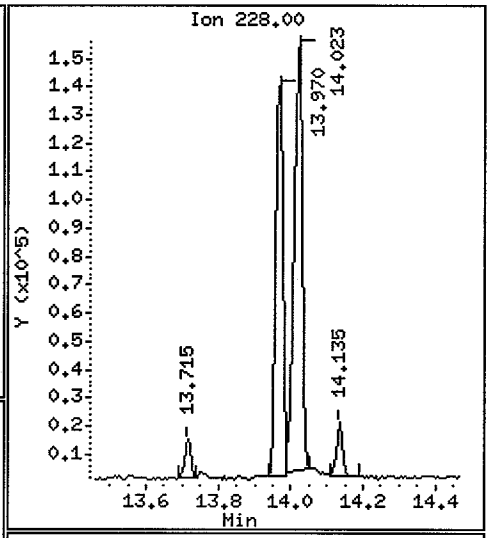
Concentration: 247.5 ug/kg

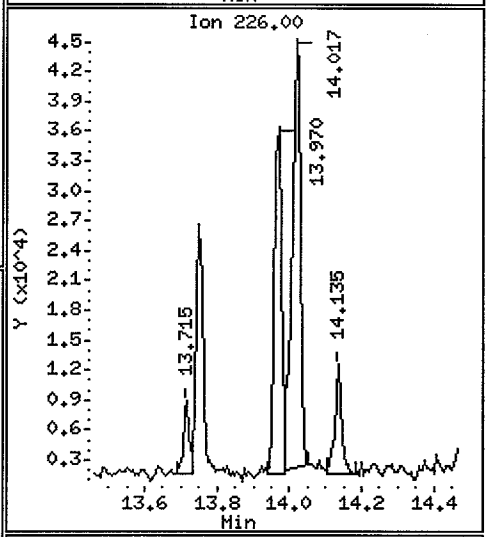


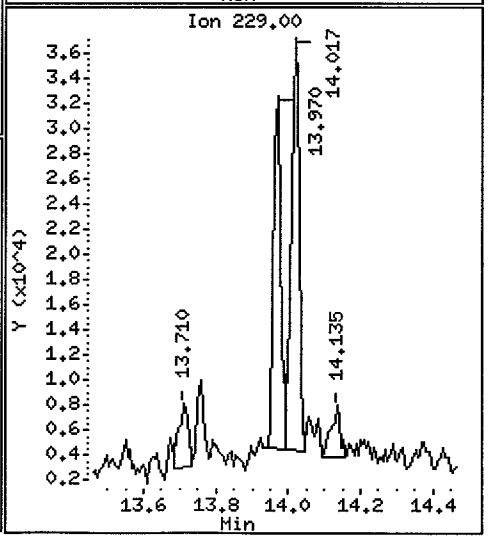












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

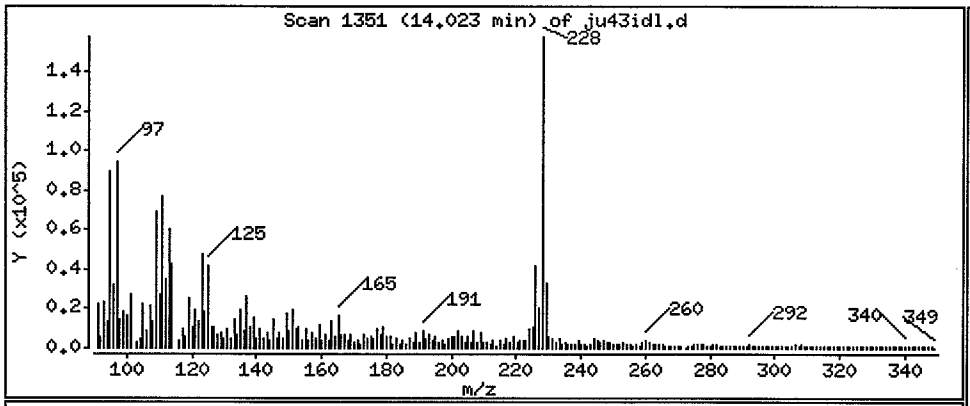
Operator: VTS

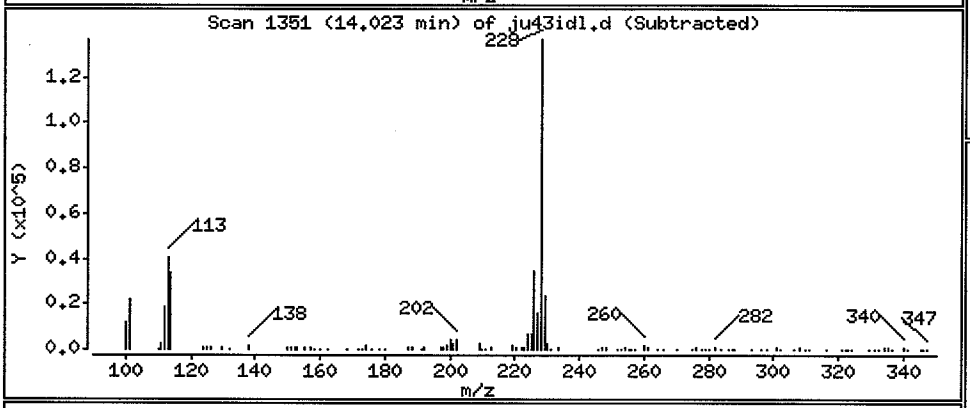
Column phase: ZB-5

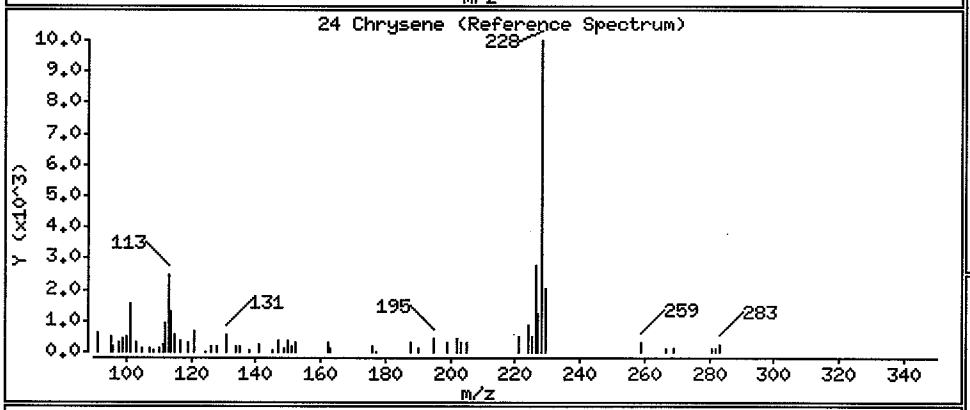
Column diameter: 0.25

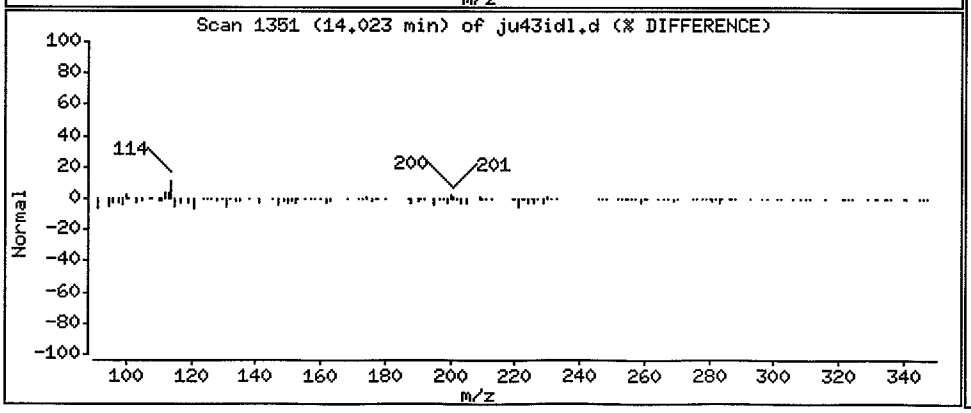
24 Chrysene

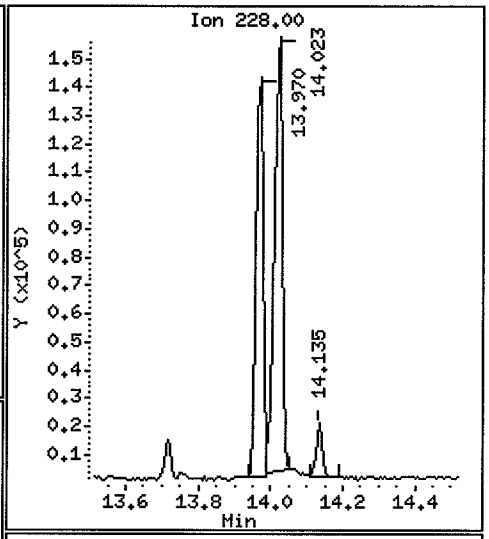
Concentration: 344.8 ug/kg

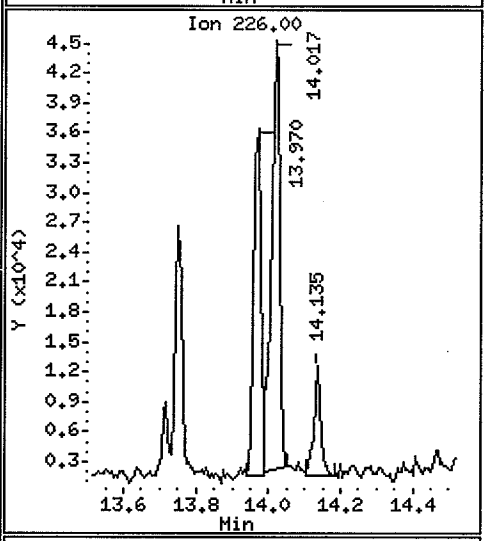


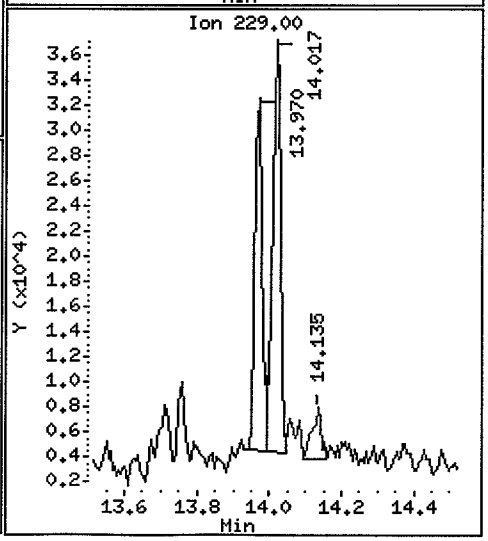












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

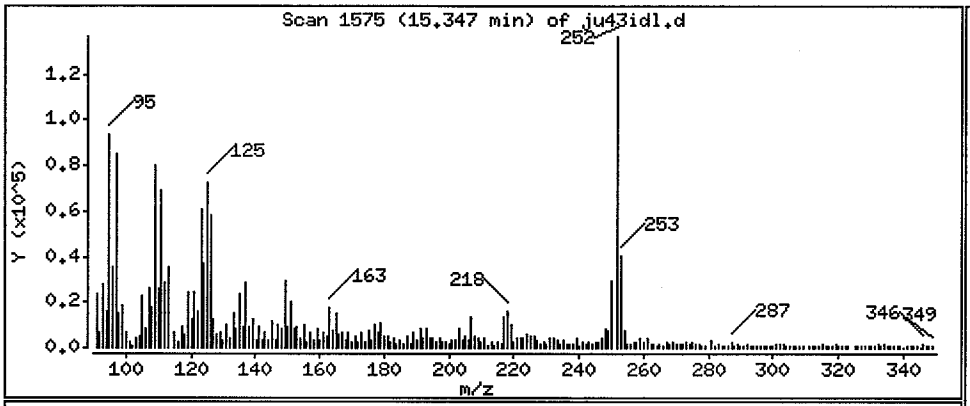
Operator: VTS

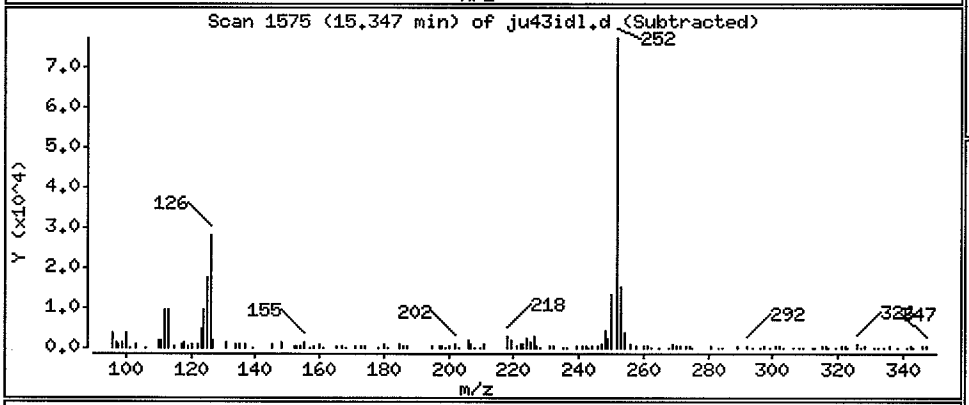
Column phase: ZB-5

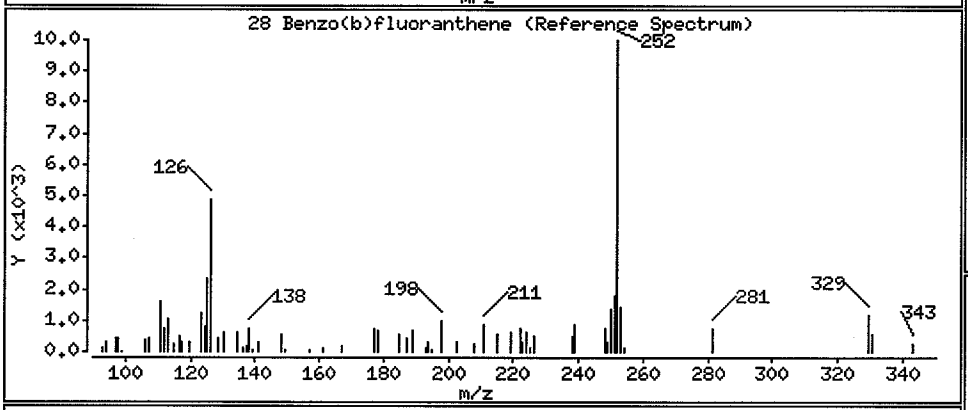
Column diameter: 0.25

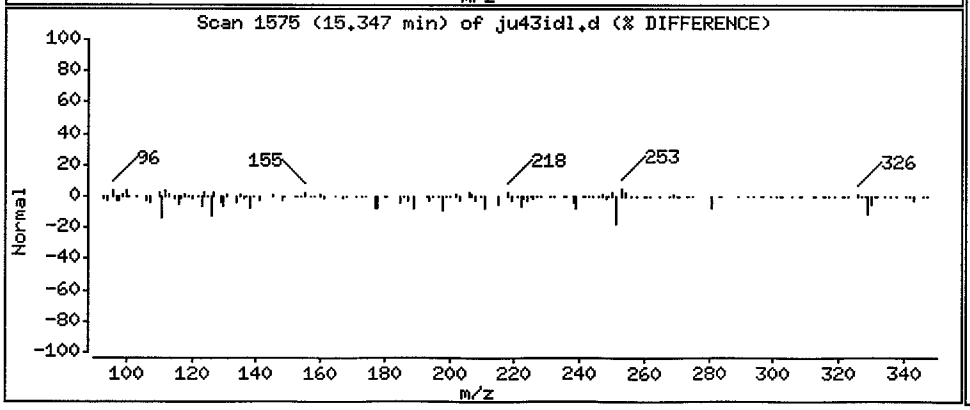
28 Benzo(b)fluoranthene

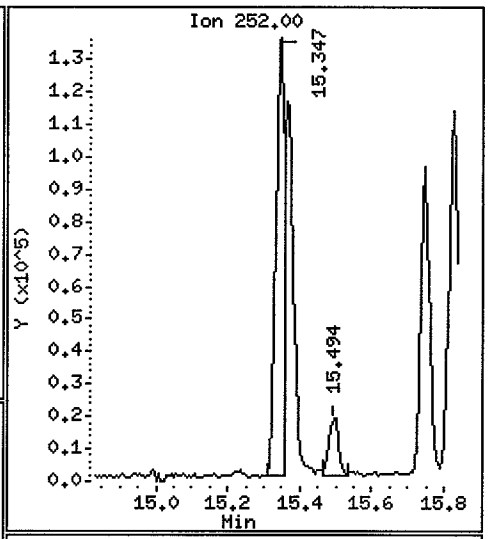
Concentration: 337.2 ug/kg

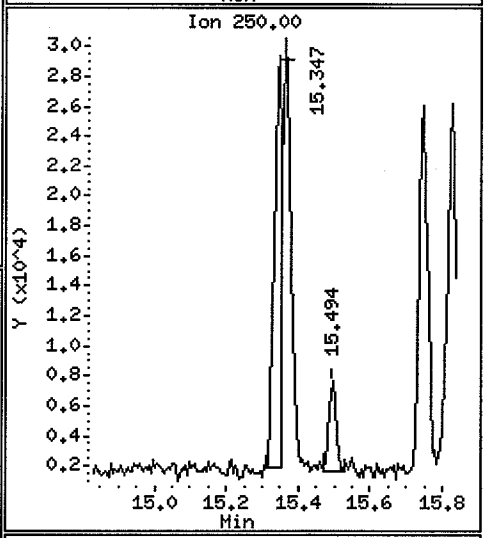


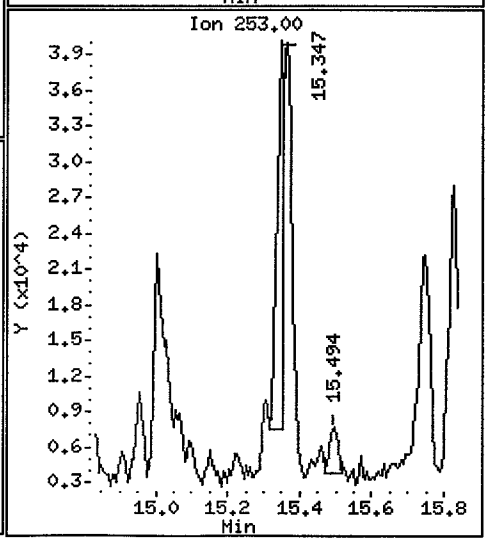












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

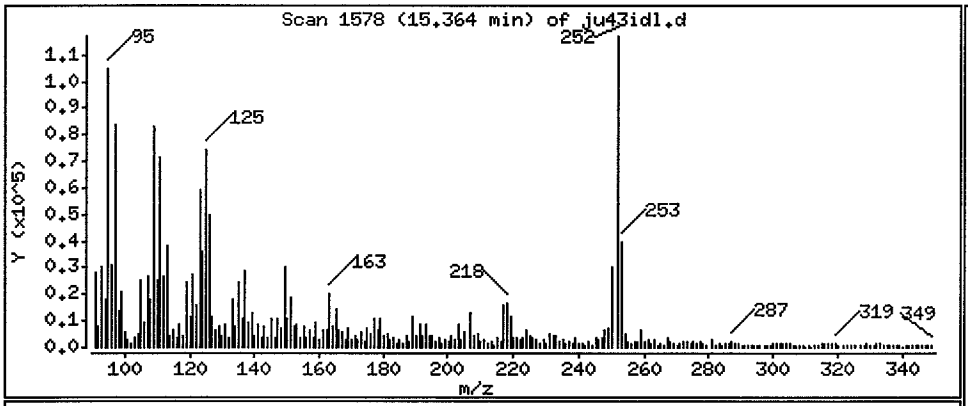
Operator: VTS

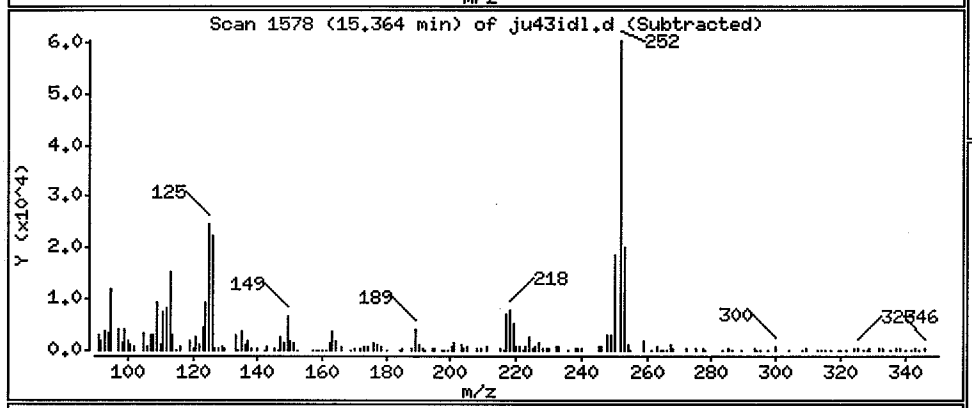
Column phase: ZB-5

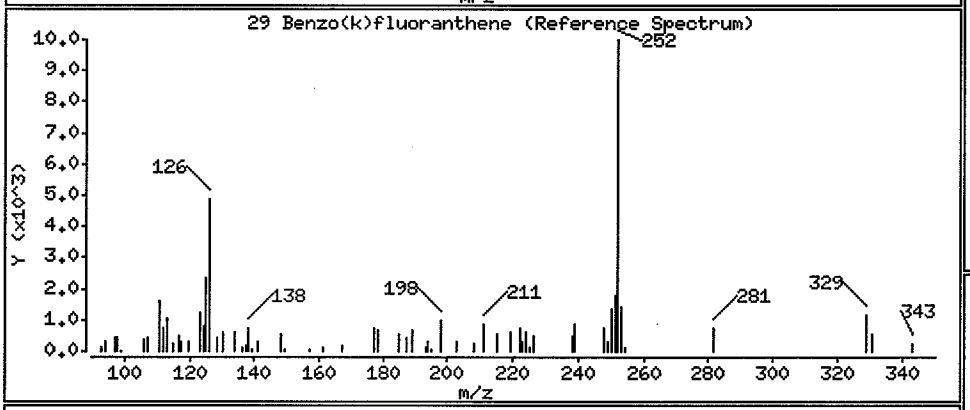
Column diameter: 0.25

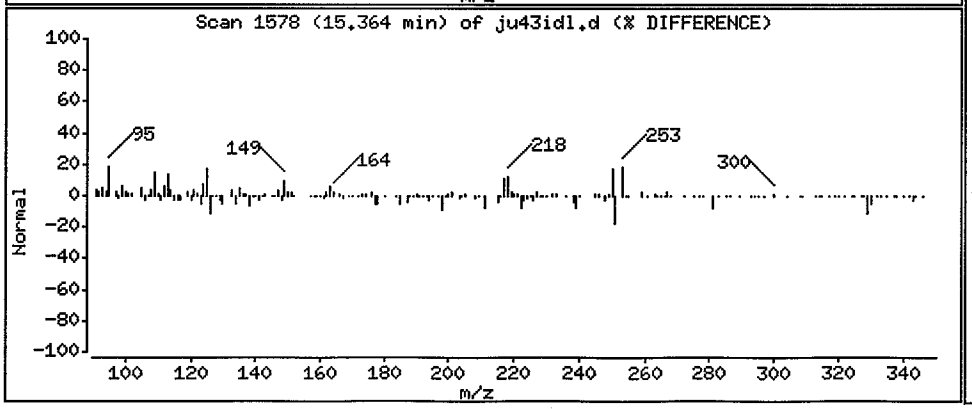
29 Benzo(k)fluoranthene

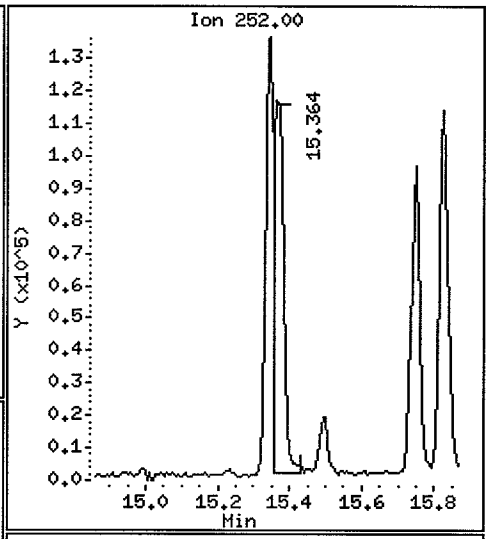
Concentration: 271.9 ug/kg

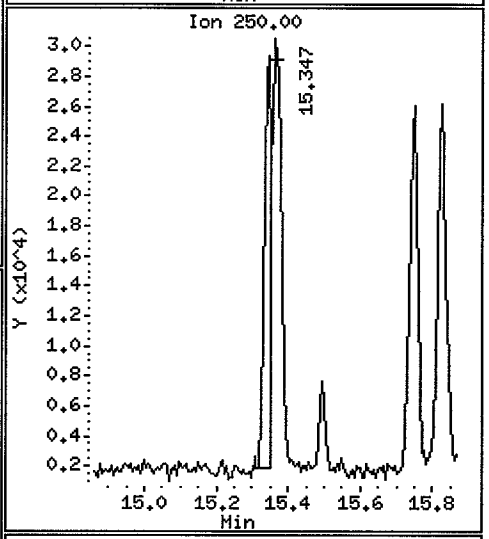


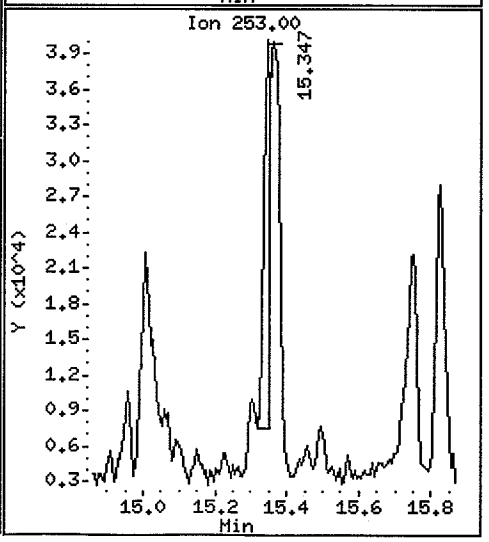












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

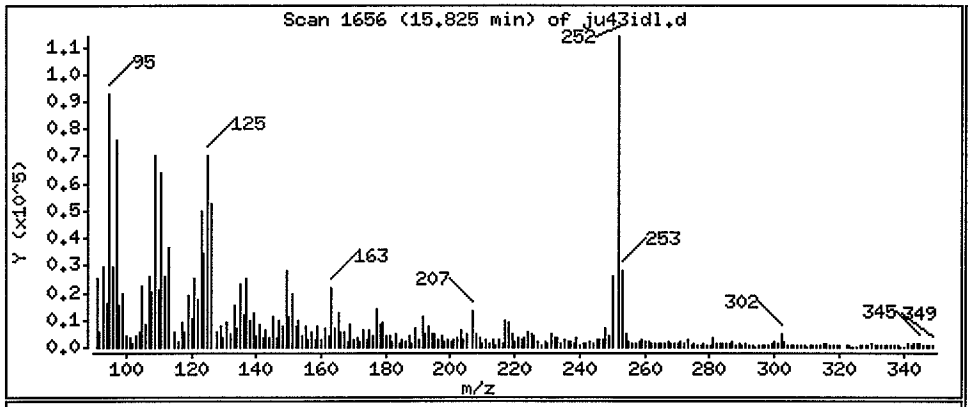
Operator: VTS

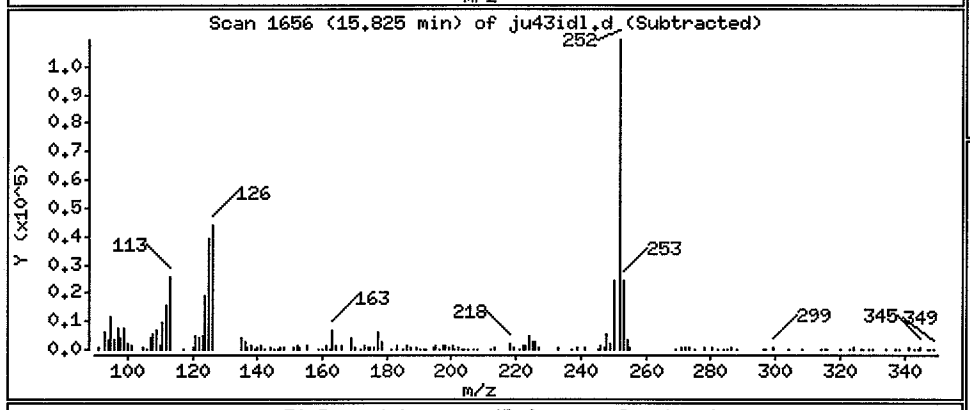
Column phase: ZB-5

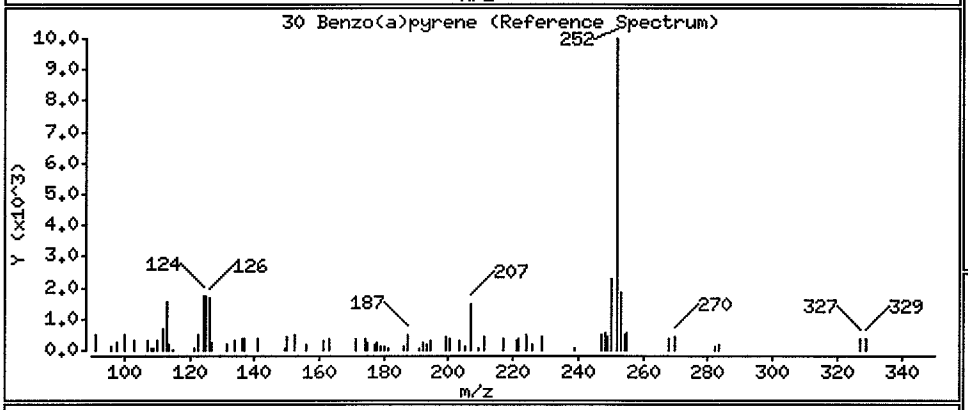
Column diameter: 0.25

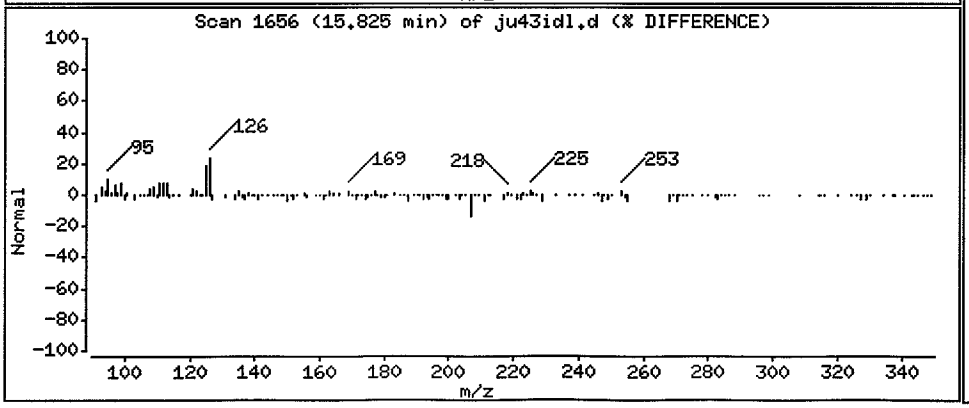
30 Benzo(a)pyrene

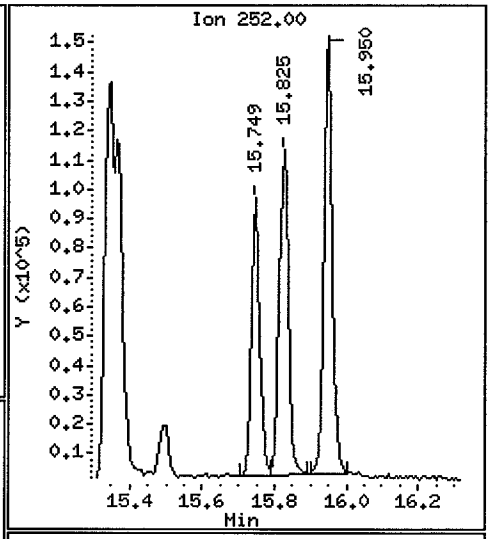
Concentration: 313.9 ug/kg

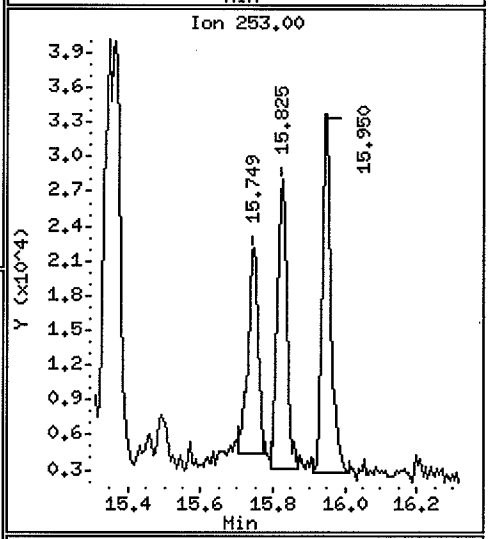


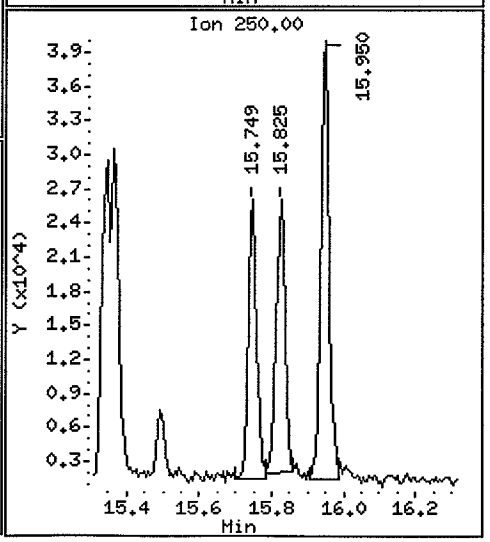












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

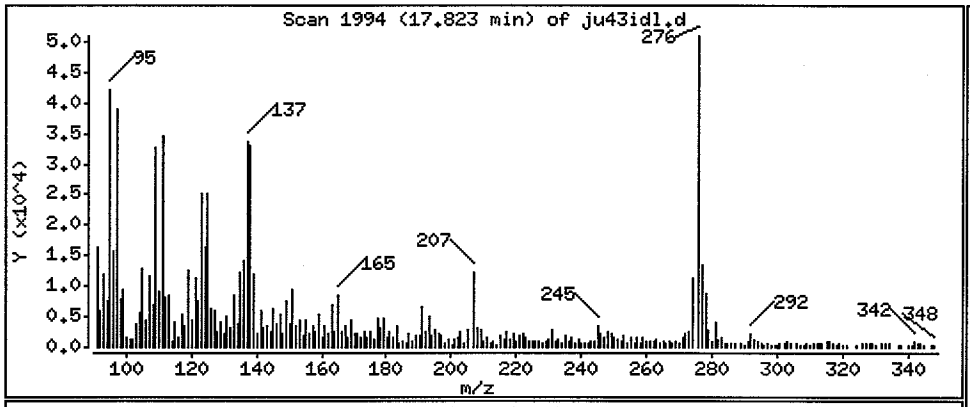
Operator: VTS

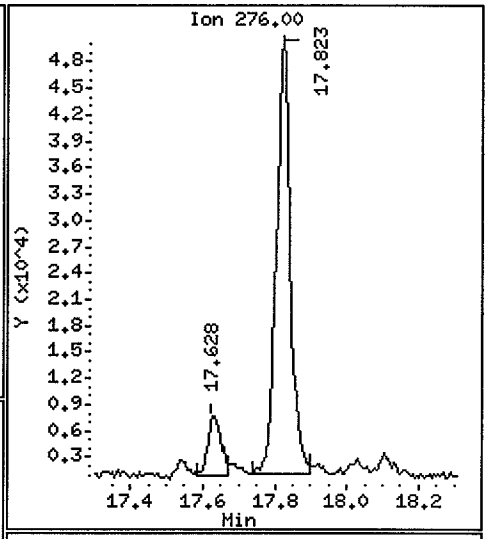
Column phase: ZB-5

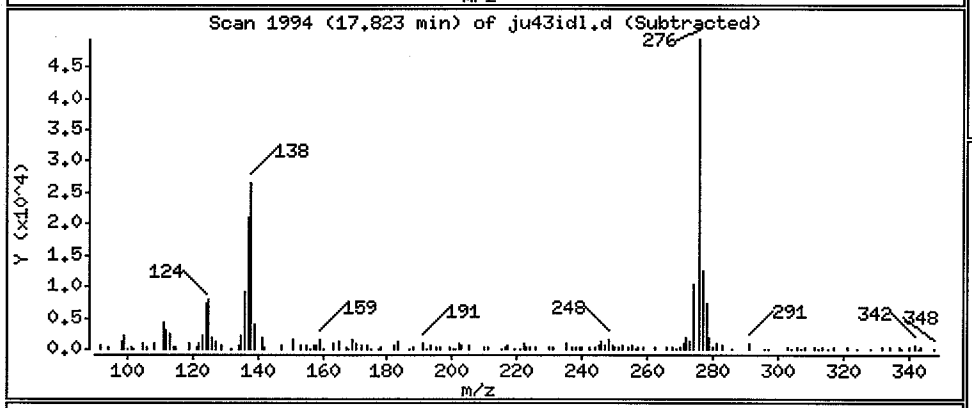
Column diameter: 0.25

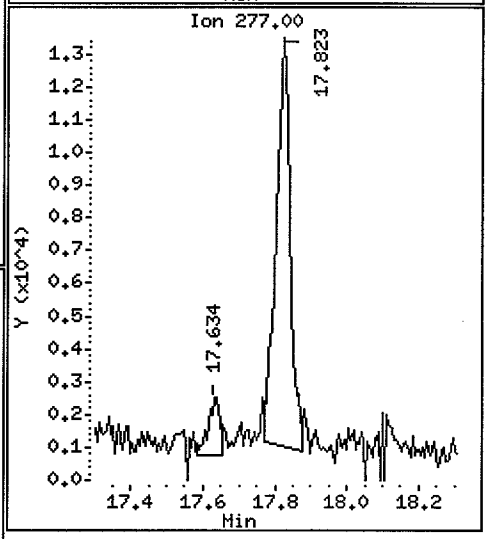
33 Indeno(1,2,3-cd)pyrene

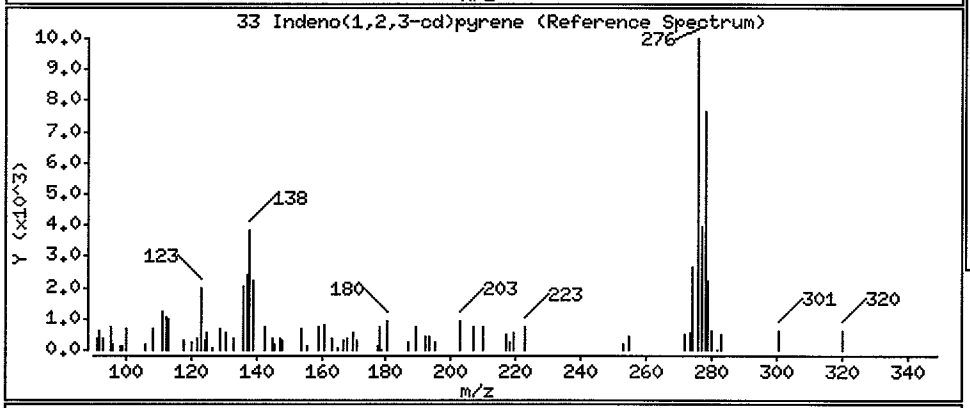
Concentration: 204.2 ug/kg

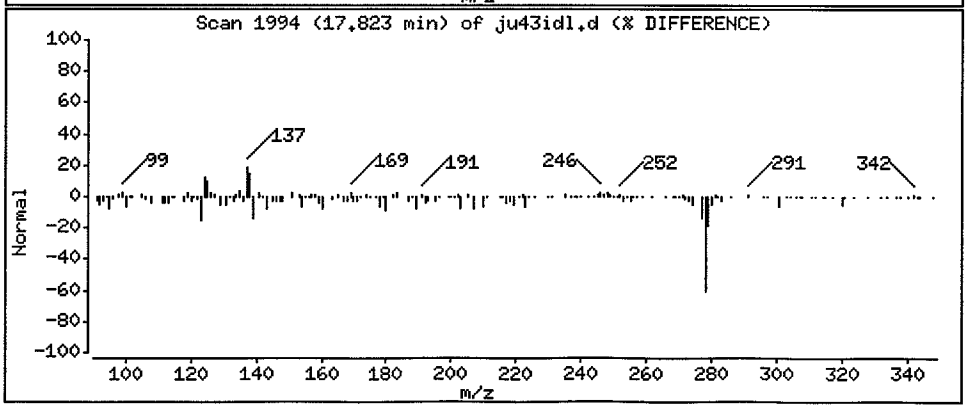












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

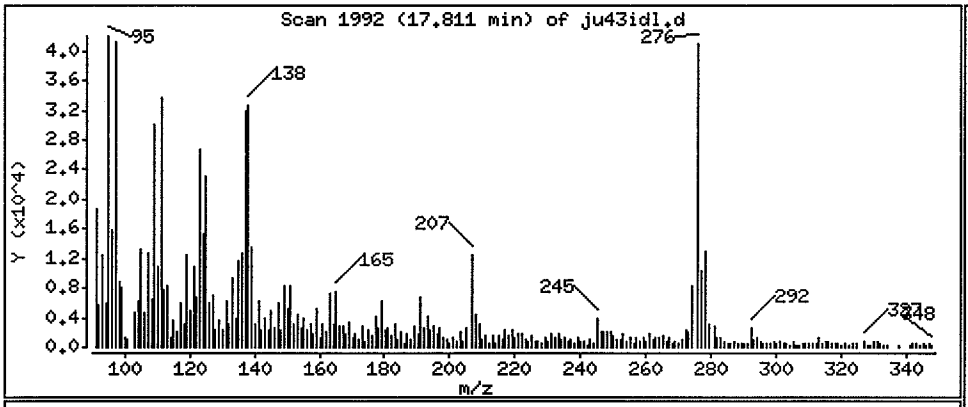
Operator: VTS

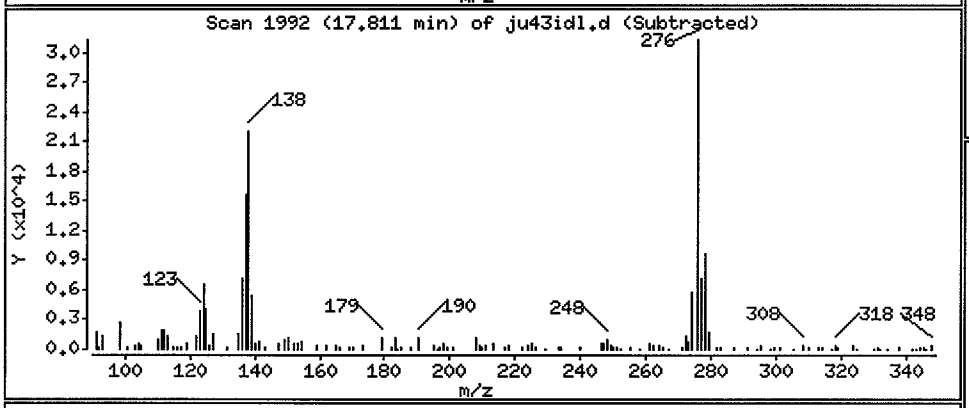
Column phase: ZB-5

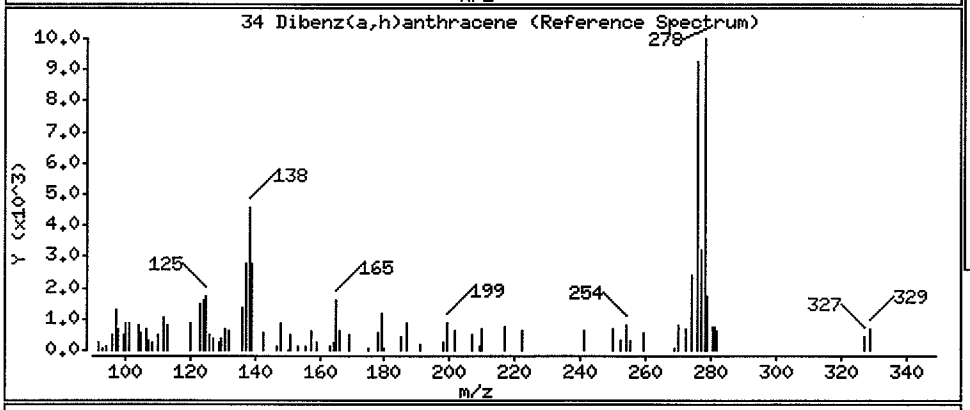
Column diameter: 0.25

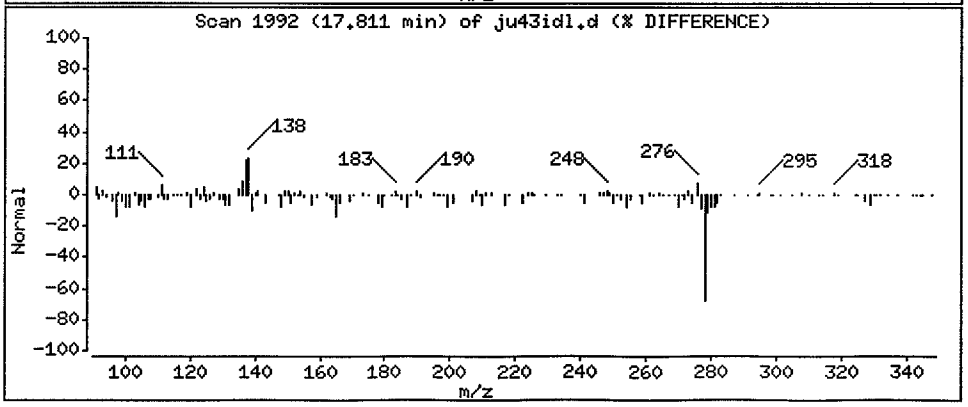
34 Dibenz(a,h)anthracene

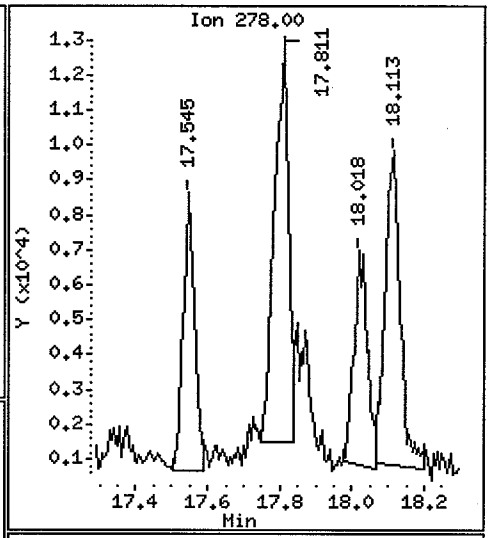
Concentration: 58.97 ug/kg

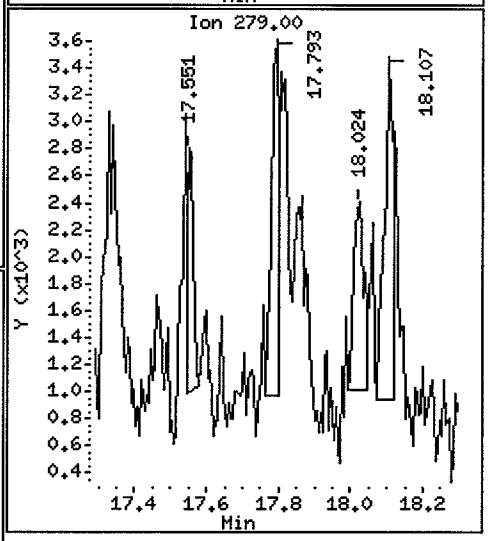












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

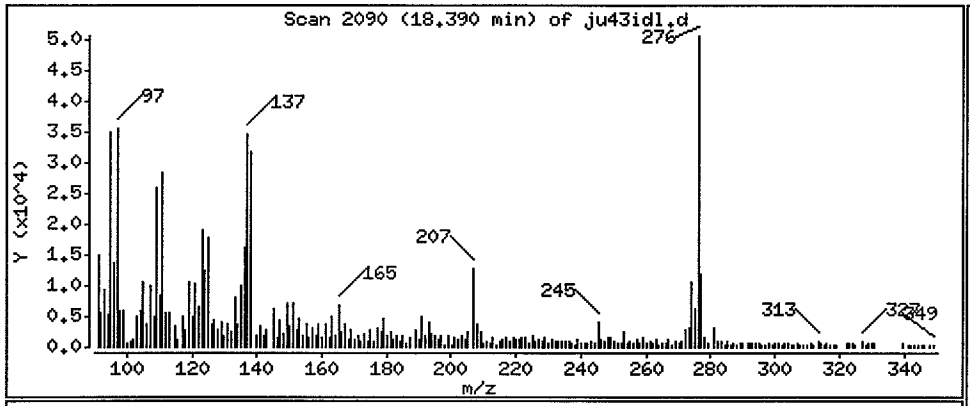
Operator: VTS

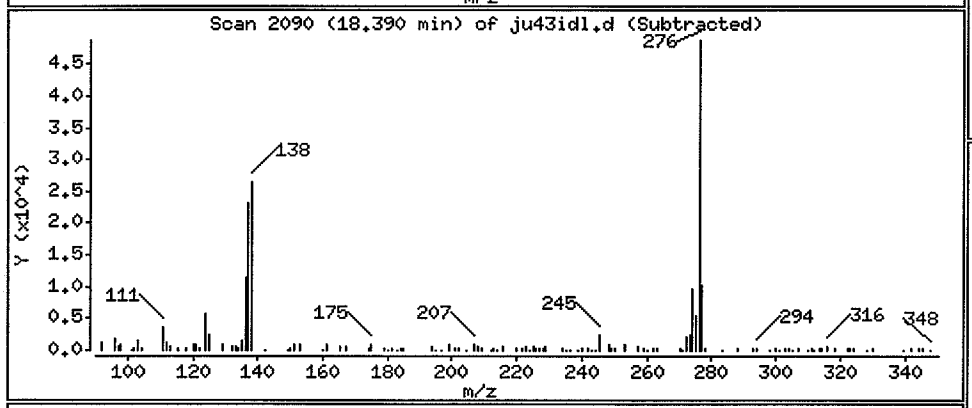
Column phase: ZB-5

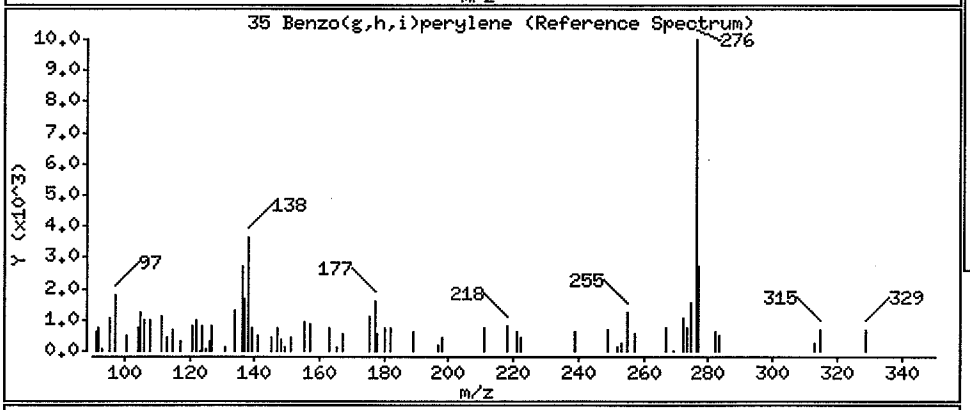
Column diameter: 0.25

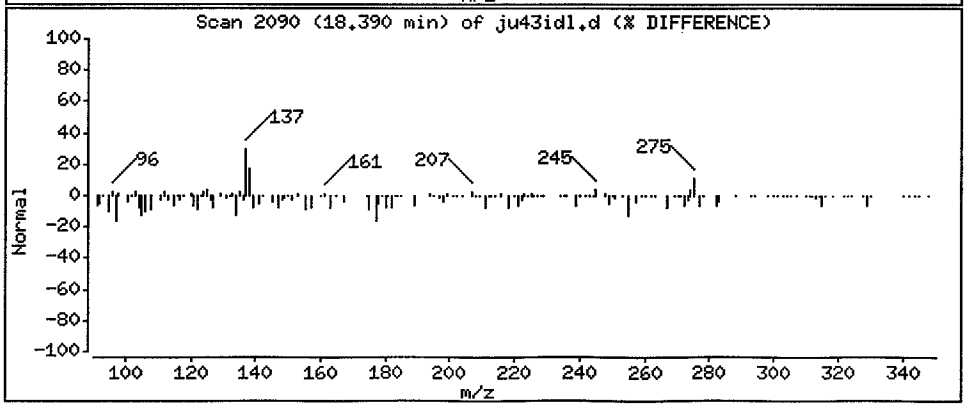
35 Benzo(g,h,i)perylene

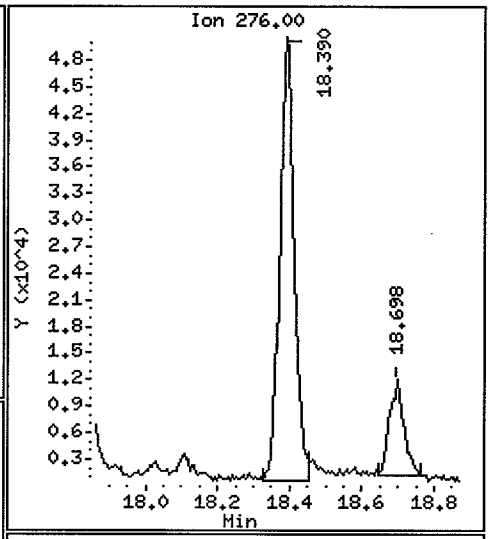
Concentration: 240.6 ug/kg

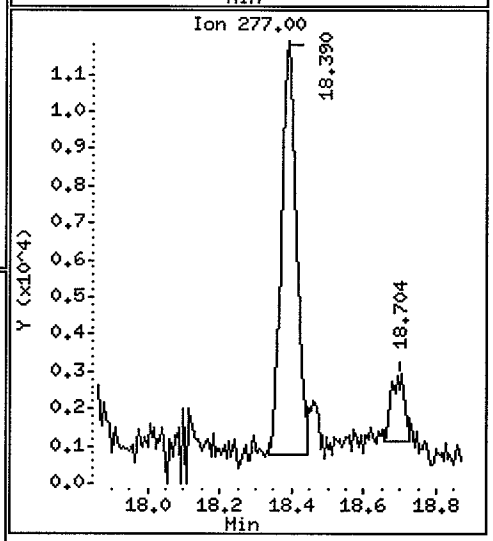












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

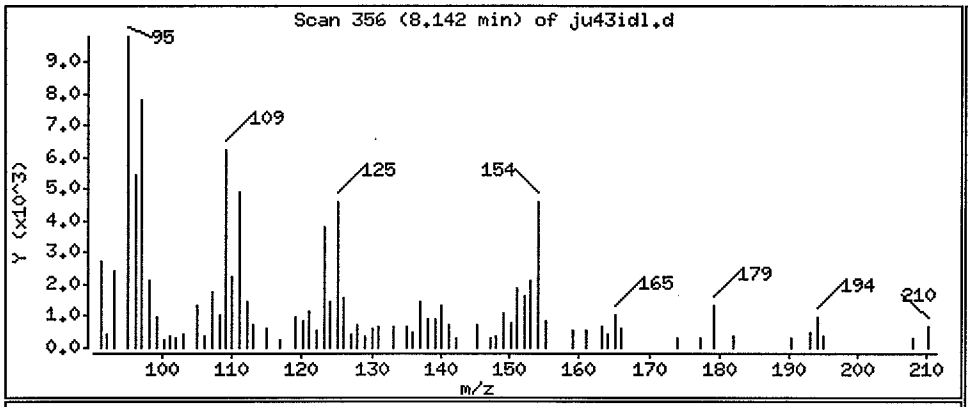
Operator: VTS

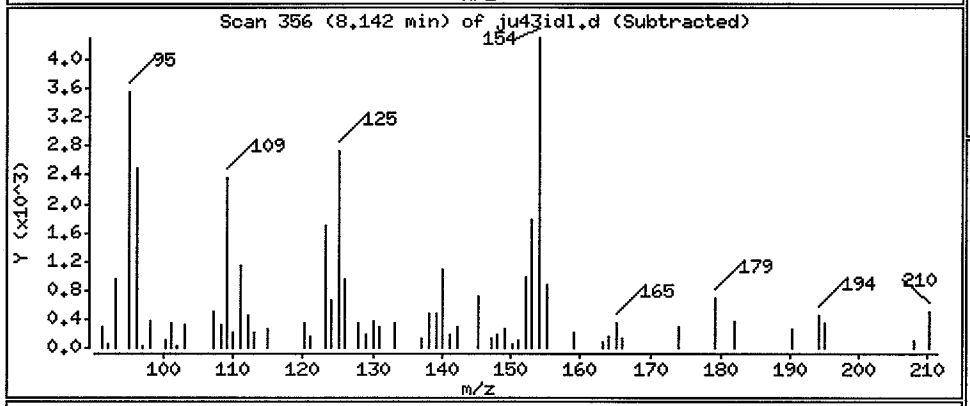
Column phase: ZB-5

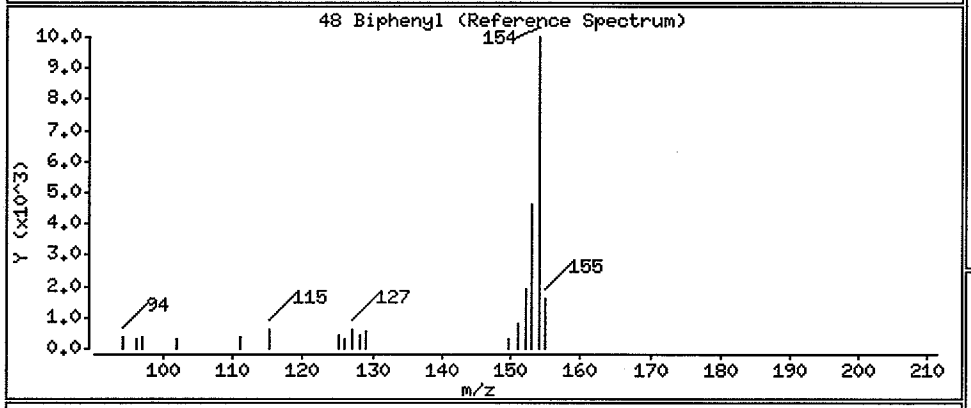
Column diameter: 0.25

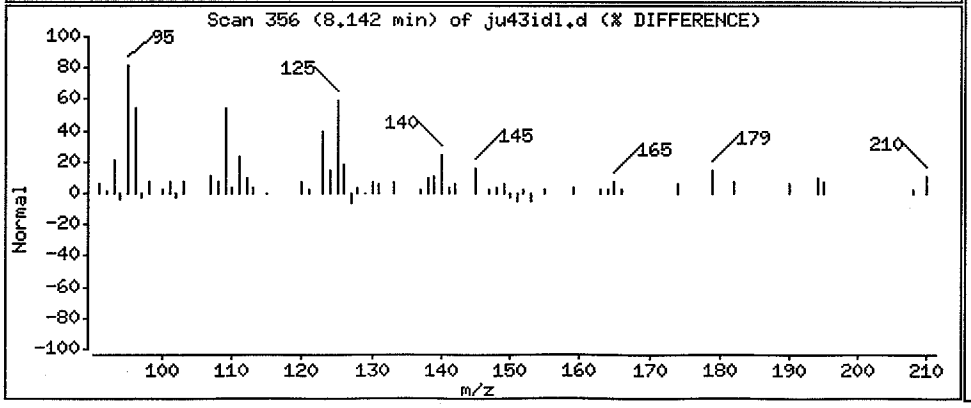
48 Biphenyl

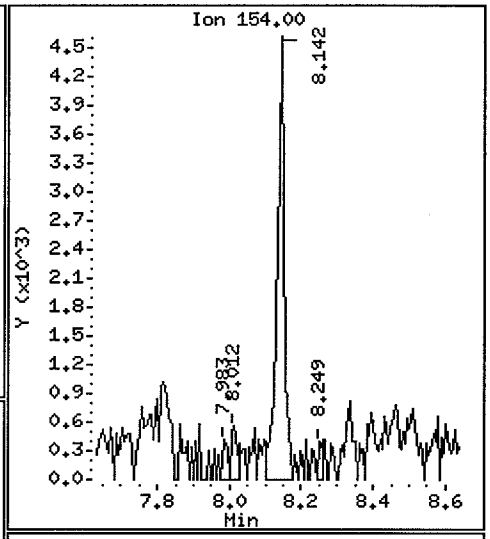
Concentration: 9.239 ug/kg

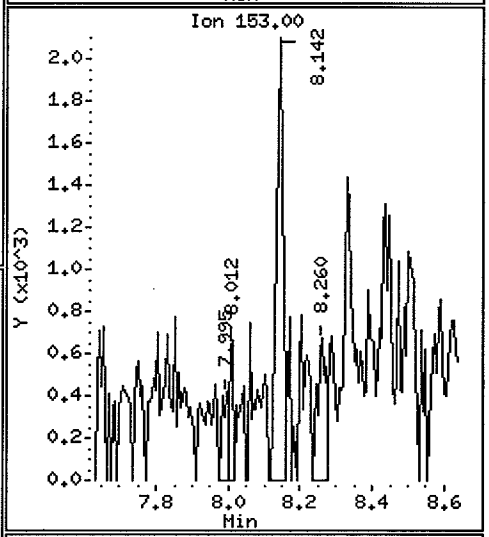


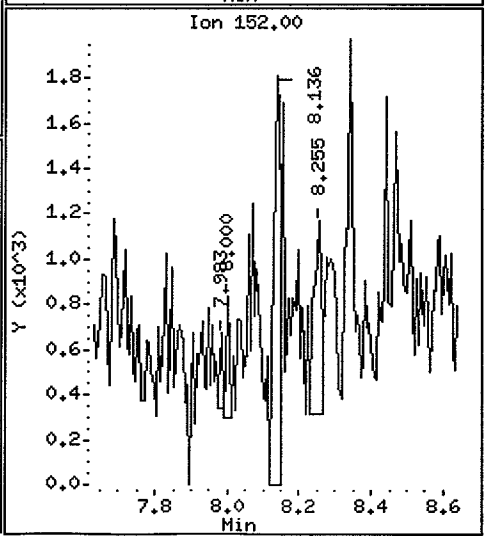












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

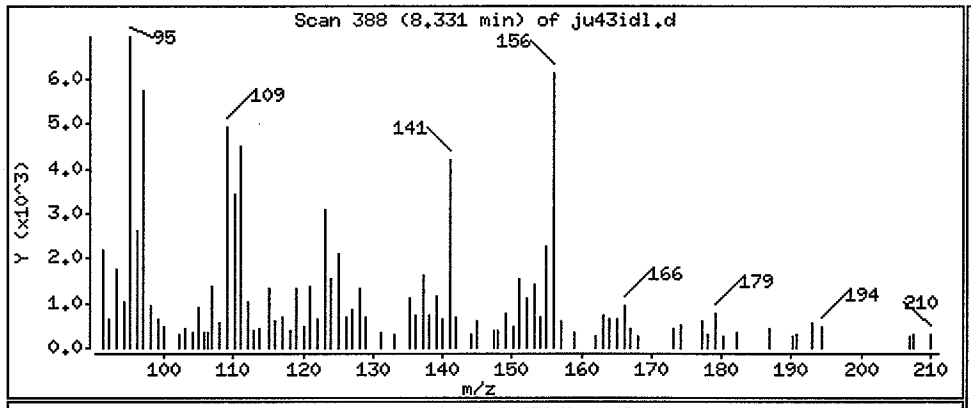
Operator: VTS

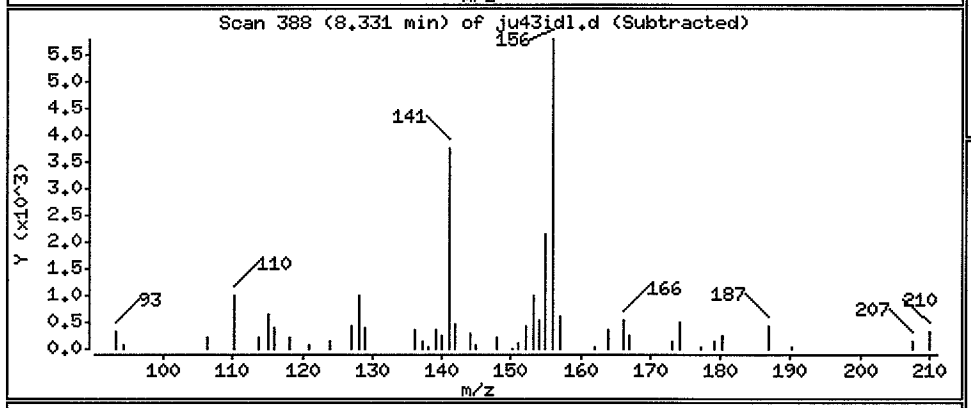
Column phase: ZB-5

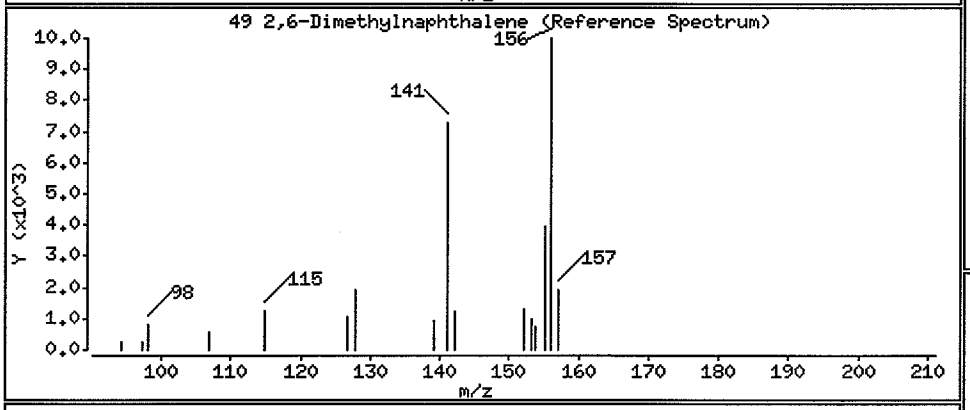
Column diameter: 0.25

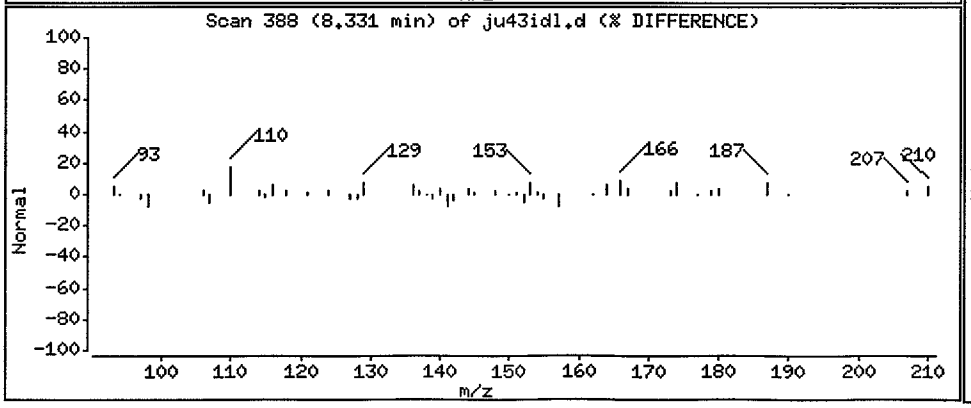
49 2,6-Dimethylnaphthalene

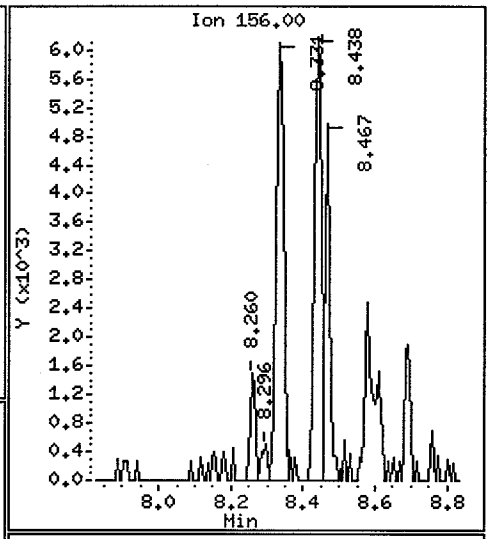
Concentration: 16.39 ug/kg

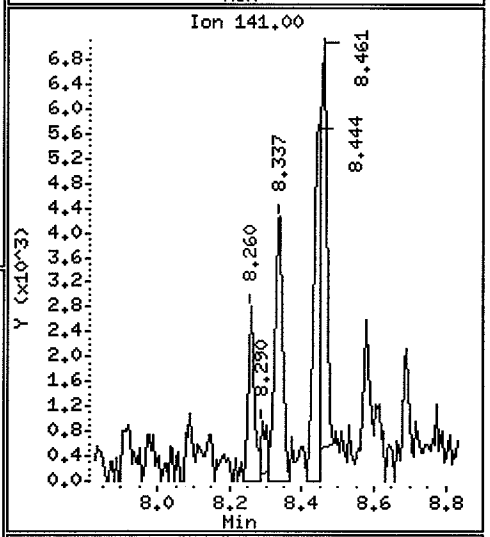


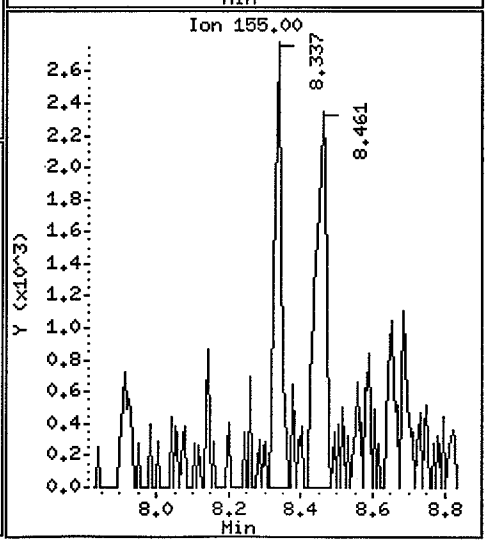












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

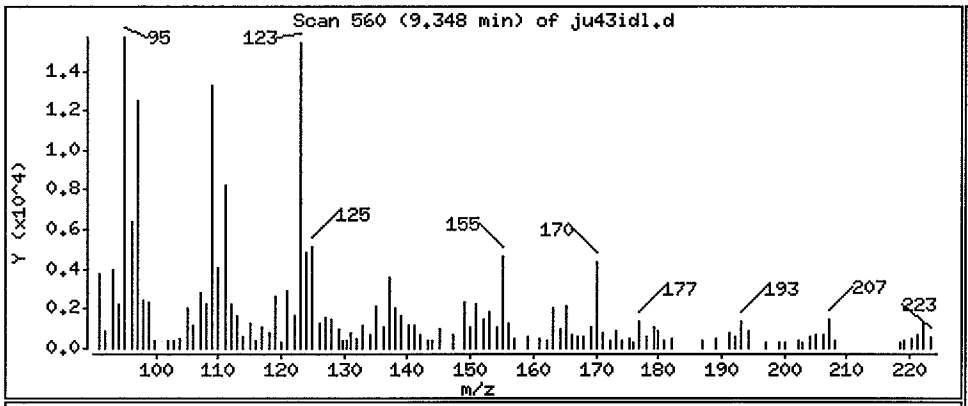
Operator: VTS

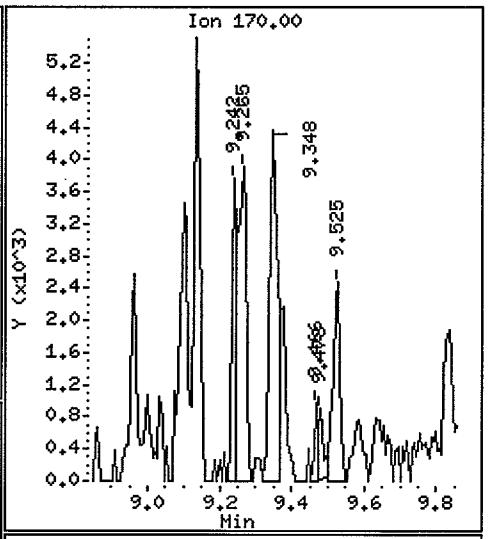
Column phase: ZB-5

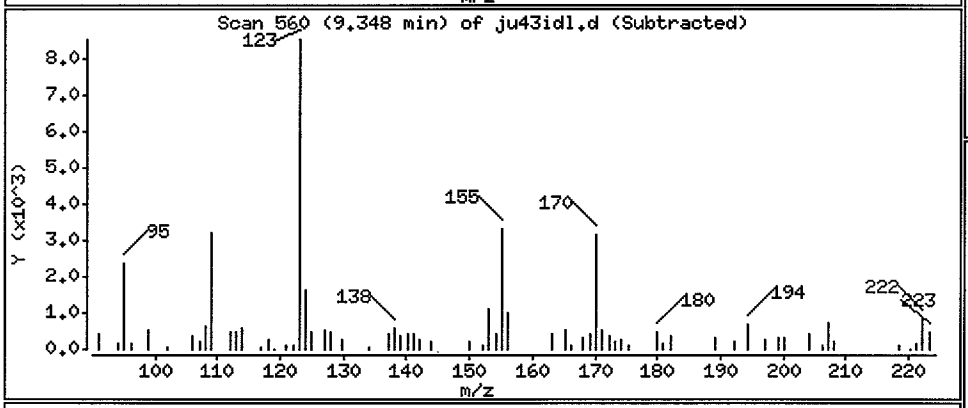
Column diameter: 0.25

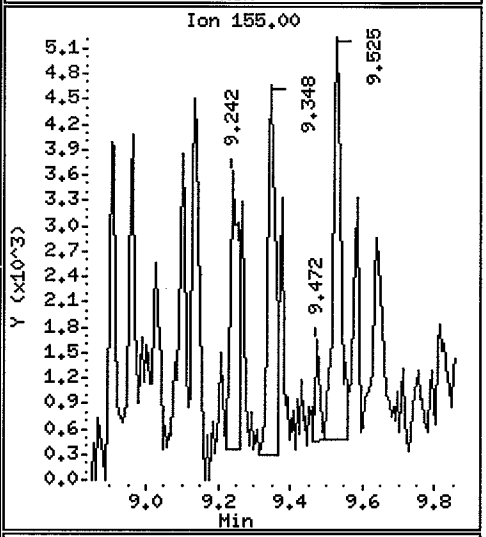
50 2,3,5-Trimethylnaphthalene

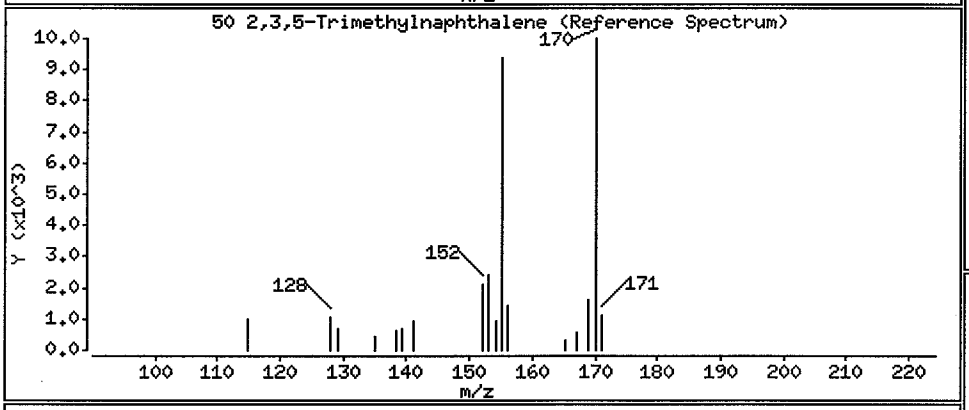
Concentration: 16.09 ug/kg

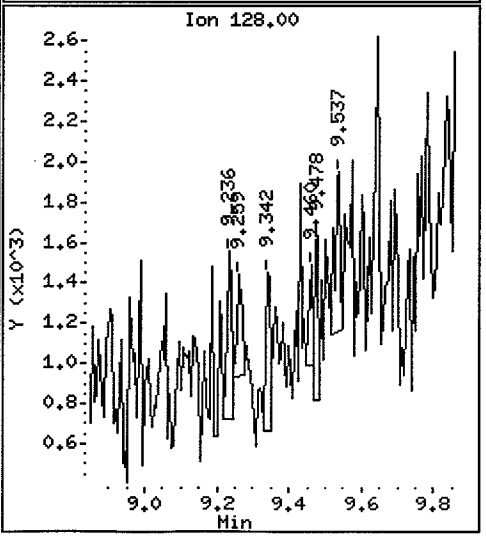


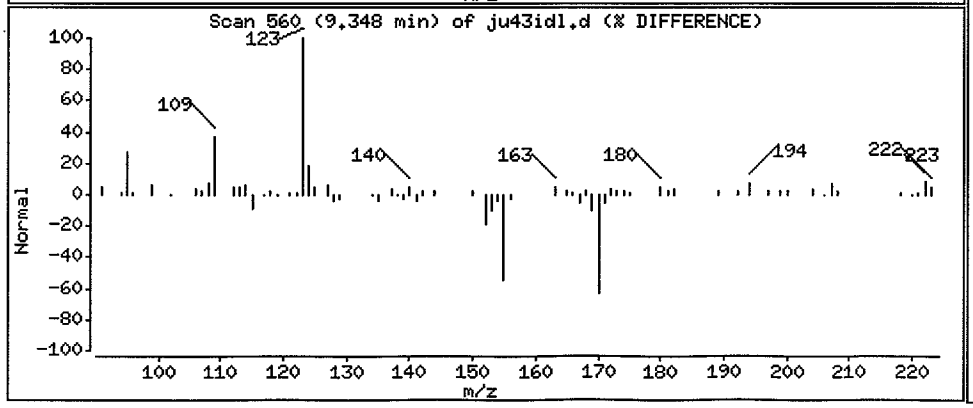












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

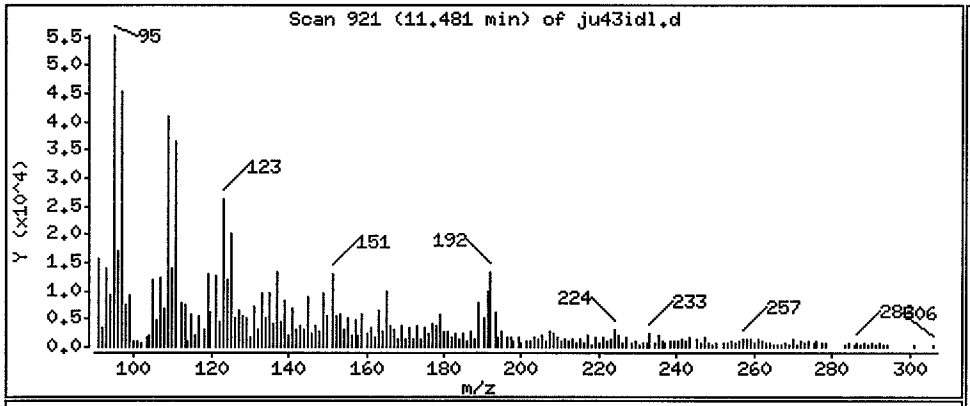
Operator: VTS

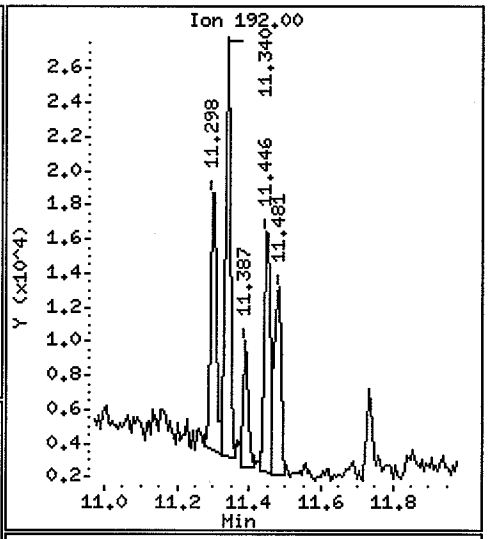
Column phase: ZB-5

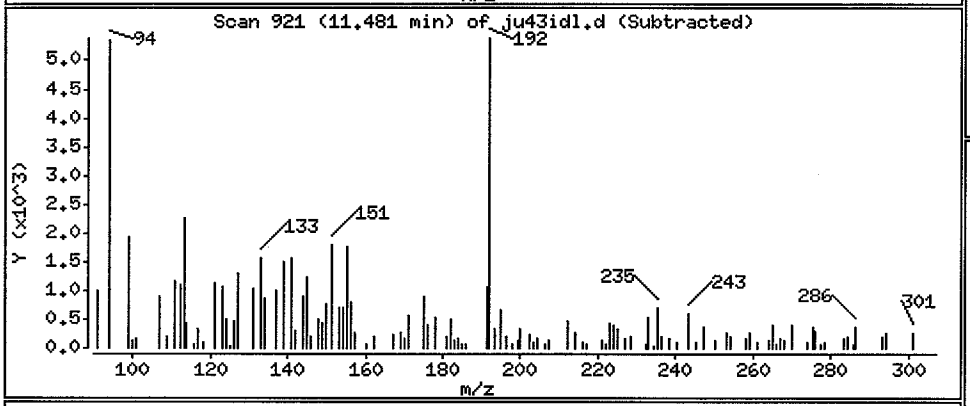
Column diameter: 0.25

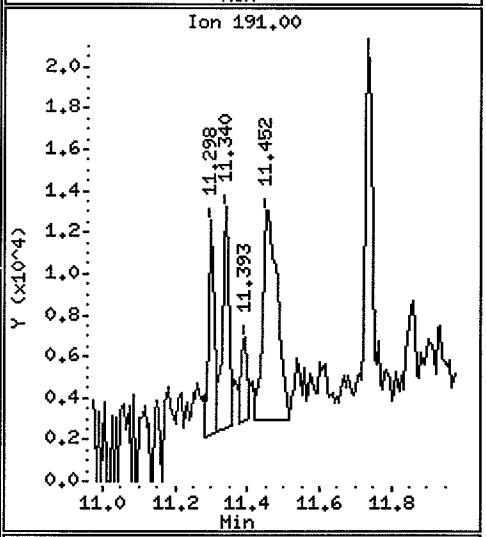
51 1-Methylphenanthrene

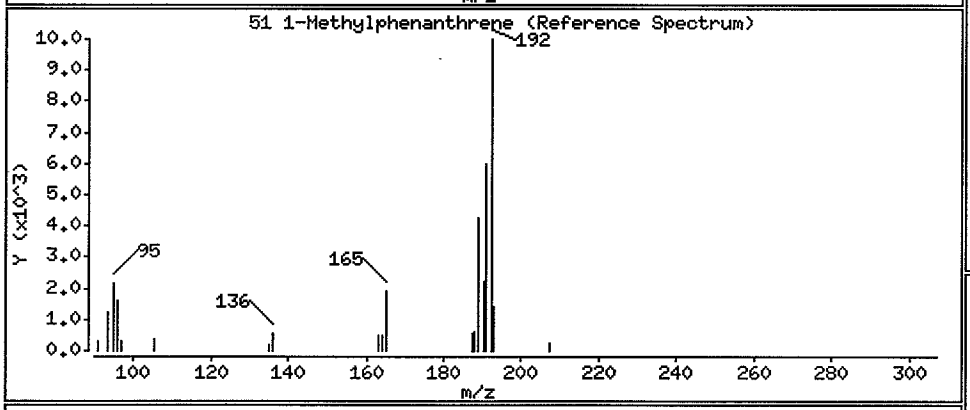
Concentration: 27.98 ug/kg

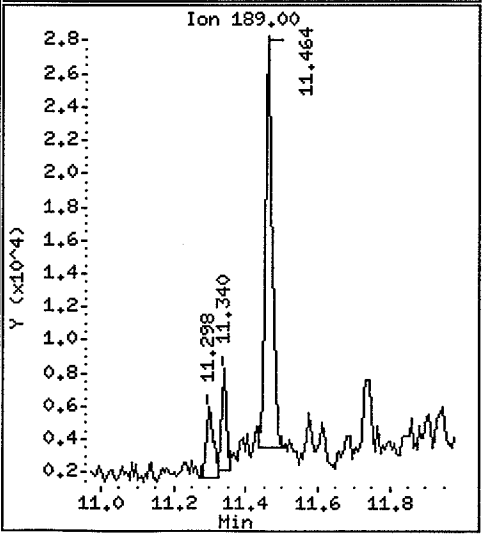


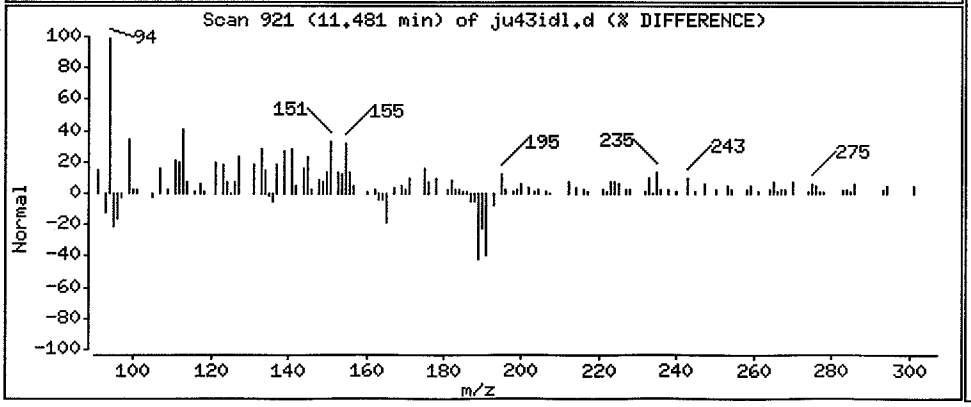












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

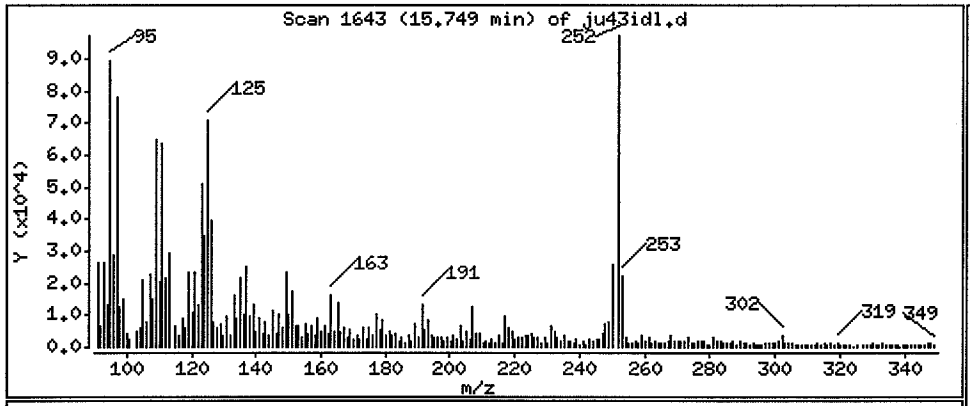
Operator: VTS

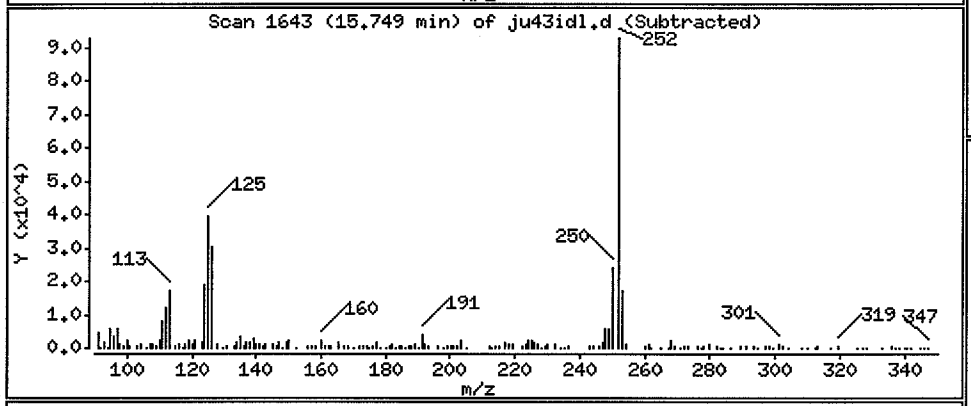
Column phase: ZB-5

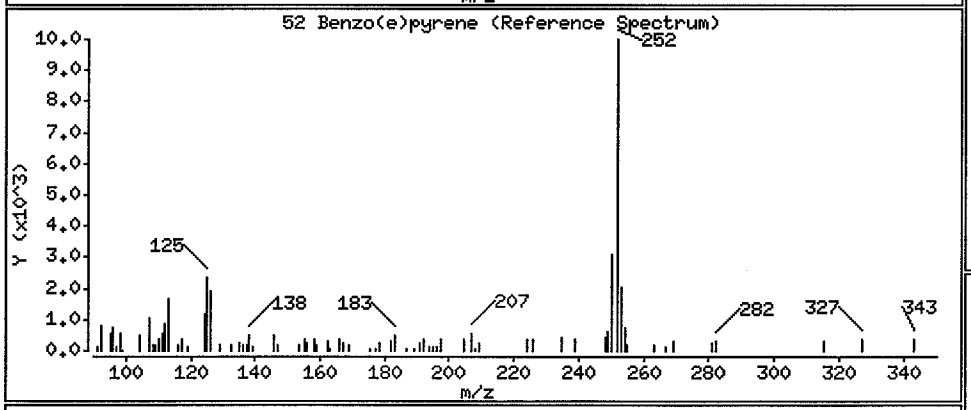
Column diameter: 0.25

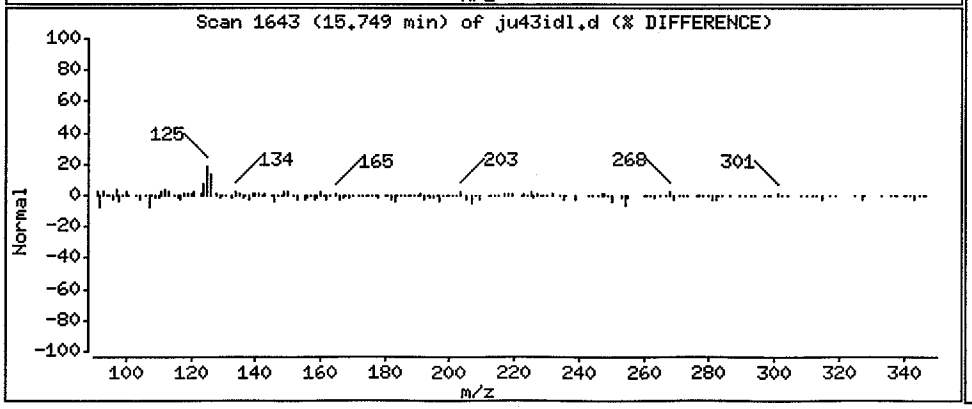
52 Benzo(e)pyrene

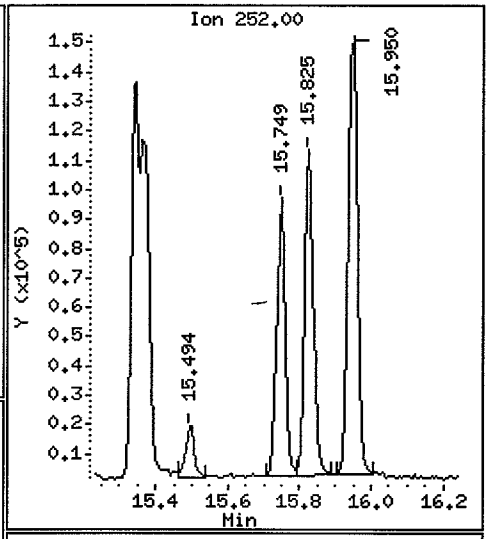
Concentration: 223.0 ug/kg

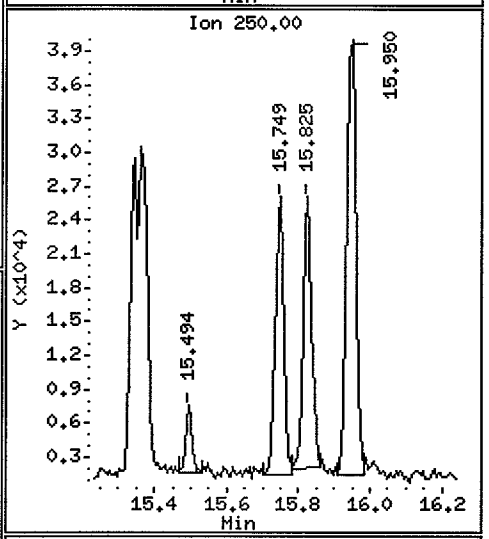


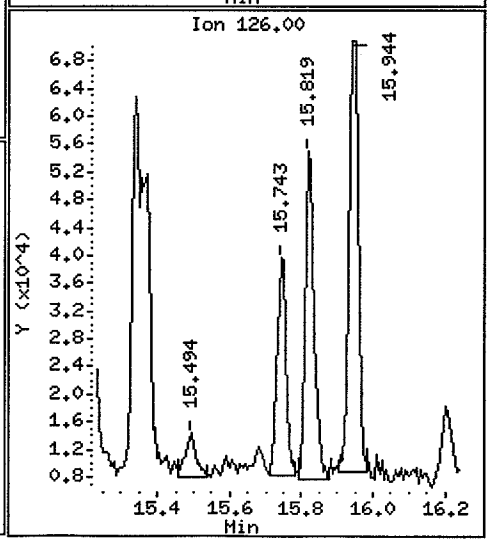












Data File: /chem3/nt1.i/20060914.b/ju43idl.d

Date : 14-SEP-2006 09:27

Client ID: T4-B414-04-F

Instrument: nt1.i

Sample Info: JU43I,3

Volume Injected (uL): 1.0

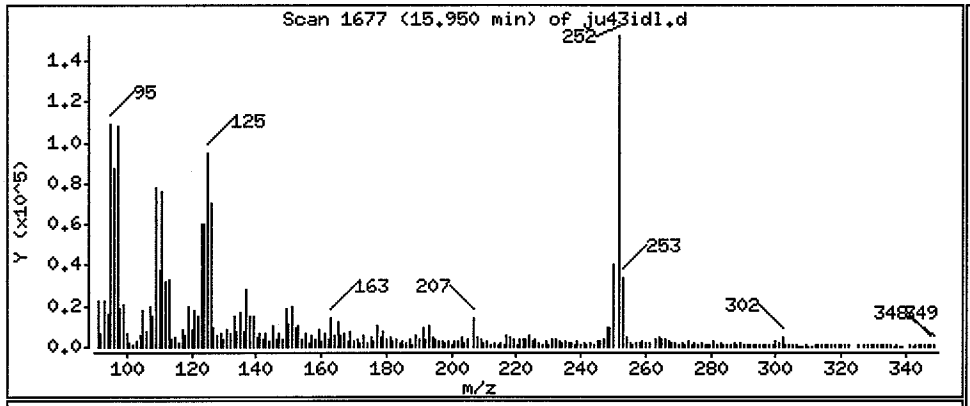
Operator: VTS

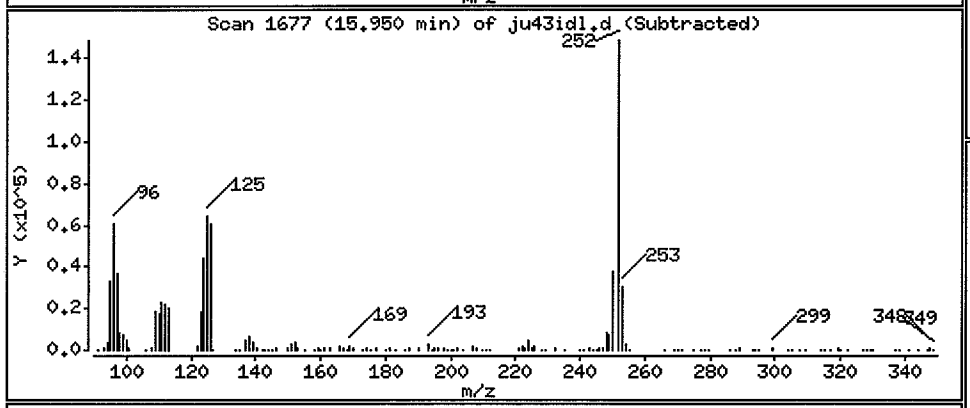
Column phase: ZB-5

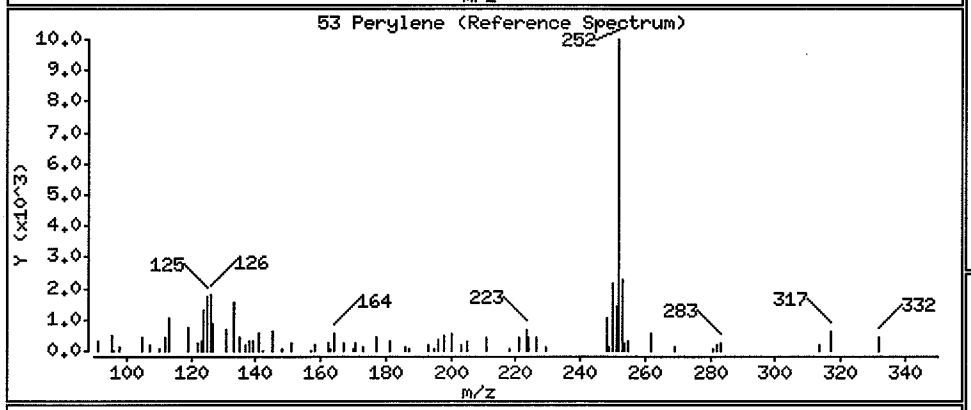
Column diameter: 0.25

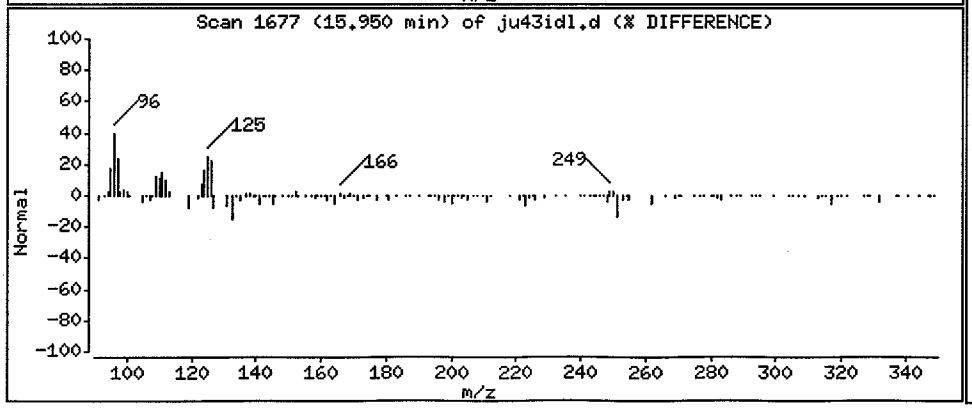
53 Perylene

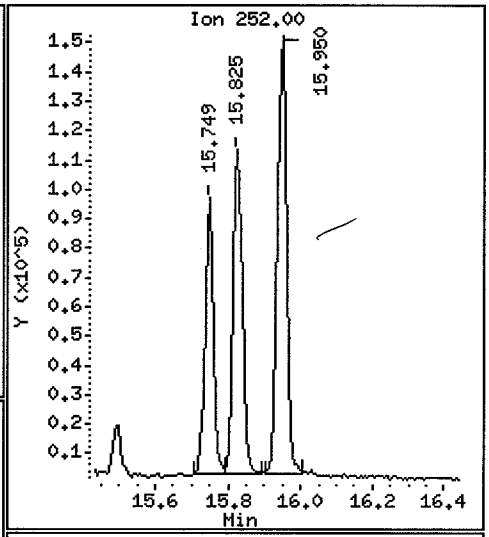
Concentration: 392.8 ug/kg

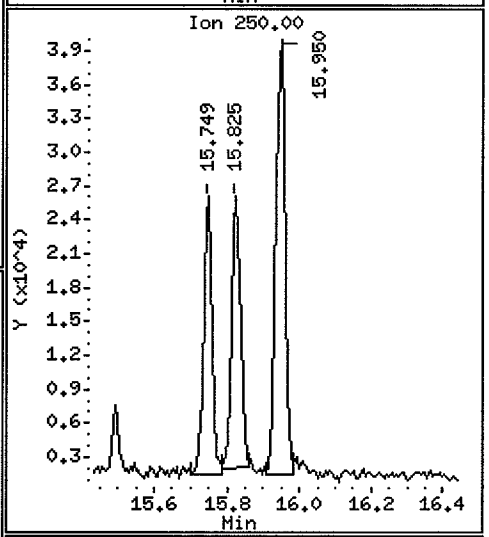


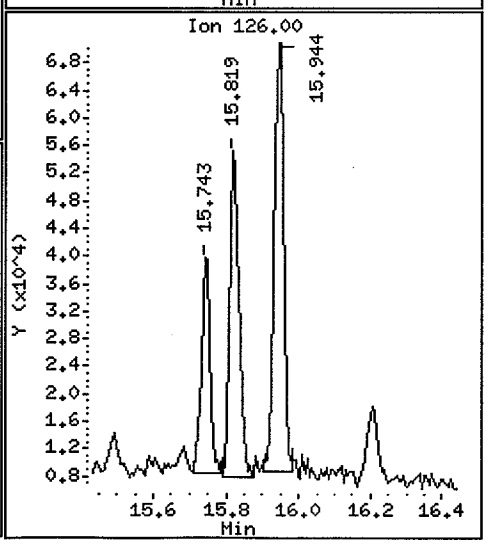












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-02-K
SAMPLE

Lab Sample ID: JU43J
LIMS ID: 06-15854
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 17:10
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: 25.8%
pH: 6.2

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	5.0	10	
91-57-6	2-Methylnaphthalene	5.0	6.0	
90-12-0	1-Methylnaphthalene	5.0	4.5	J
208-96-8	Acenaphthylene	5.0	3.5	J
83-32-9	Acenaphthene	5.0	16	
86-73-7	Fluorene	5.0	6.5	
85-01-8	Phenanthrene	5.0	66	
120-12-7	Anthracene	5.0	11	
206-44-0	Fluoranthene	5.0	92	
129-00-0	Pyrene	5.0	110	
56-55-3	Benzo(a)anthracene	5.0	38	
218-01-9	Chrysene	5.0	56	
205-99-2	Benzo(b)fluoranthene	5.0	37	
207-08-9	Benzo(k)fluoranthene	5.0	38	
50-32-8	Benzo(a)pyrene	5.0	44	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	22	
53-70-3	Dibenz(a,h)anthracene	5.0	6.0	
191-24-2	Benzo(g,h,i)perylene	5.0	24	
198-55-0	Perylene	5.0	90	
92-52-4	Biphenyl	5.0	< 5.0	U
581-42-0	2,6-Dimethylnaphthalene	5.0	10	
832-69-9	1-Methylphenanthrene	5.0	20	M
192-97-2	Benzo(e)pyrene	5.0	30	
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	18	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	93.0%
d14-Dibenzo(a,h)anthracen	90.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43j.d
Lab Smp Id: JU43J Client Smp ID: T4-S3-02-K
Inj Date : 12-SEP-2006 17:10
Operator : VTS Inst ID: nt1.i
Smp Info : JU43J
Misc Info : 06-15854
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.50000	Weight of sample extracted (g)
M	25.80000	% 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	6.813	6.808	(1.000)	350331	2.00000	
	2 Naphthalene	128	6.837	6.832	(1.003)	34630	0.20575	10.27
$	3 2-Methylnaphthalene-d10	152	7.569	7.564	(1.111)	242146	2.78744	139.1
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	10539	0.11781	5.881
	5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	9148	0.09424	4.704 J
	7 Acenaphthylene	152	8.692	8.687	(0.980)	9491	0.06656	3.323 J
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	173554	2.00000	
	9 Acenaphthene	153	8.911	8.906	(1.005)	28040	0.32560	16.25
	10 Dibenzofuran	168	9.100	9.095	(1.026)	6681	~~0.05459~~	2.725 NR
	11 Fluorene	166	9.520	9.521	(1.073)	12446	0.13321	6.649
*	15 Phenanthrene-d10	188	10.684	10.679	(1.000)	223379	2.00000	
	16 Phenanthrene	178	10.708	10.709	(1.002)	159141	1.31428	65.60
	17 Anthracene	178	10.767	10.762	(1.008)	26411	0.21627	10.79
	19 Fluoranthene	202	12.203	12.198	(1.142)	190316	1.84135	91.91

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.487	12.488	(0.892)	264583	2.23786	111.7
	22 Benzo(a)anthracene	228	13.970	13.965	(0.998)	76160	0.75620	37.75
*	23 Chrysene-d12	240	13.994	13.989	(1.000)	167988	2.00000	
	24 Chrysene	228	14.023	14.018	(1.002)	104934	1.10875	55.34
	28 Benzo(b)fluoranthene	252	15.341	15.336	(0.964)	70599	0.73930	36.90
	29 Benzo(k)fluoranthene	252	15.365	15.366	(0.966)	76198	0.76402	38.14
	30 Benzo(a)pyrene	252	15.826	15.821	(0.995)	75723	0.87916	43.88
*	31 Perylene-d12	264	15.909	15.898	(1.000)	168634	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.818	17.813	(1.120)	40897	0.44230	22.08
$	32 Dibenz(a,h)anthrancene-d14	292	17.741	17.736	(1.115)	149423	2.70395	135.0
	34 Dibenz(a,h)anthracene	278	17.818	17.807	(1.120)	9096	0.12138	6.058(M)
	35 Benzo(g,h,i)perylene	276	18.391	18.380	(1.156)	38313	0.46885	23.40
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	17419	0.21426	10.69
	50 2,3,5-Trimethylnaphthalene	170	9.360	9.355	(1.055)	23166	0.36072	18.01
	51 1-Methylphenanthrene	192	11.482	11.477	(0.820)	32114	0.40502	20.22 M
	52 Benzo(e)pyrene	252	15.743	15.744	(0.990)	58619	0.61091	30.49
	53 Perylene	252	15.944	15.939	(1.002)	161403	1.80269	89.98

QC Flag Legend

M - Compound response manually integrated.

VS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43j.d
Lab Smp Id: JU43J
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-02-K
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	350331	2.57
8 Acenaphthene-d10	169375	84688	338750	173554	2.47
15 Phenanthrene-d10	232185	116092	464370	223379	-3.79
23 Chrysene-d12	179856	89928	359712	167988	-6.60
31 Perylene-d12	175373	87686	350746	168634	-3.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.07
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.04
31 Perylene-d12	15.90	15.40	16.40	15.91	0.07

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: JU43J
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

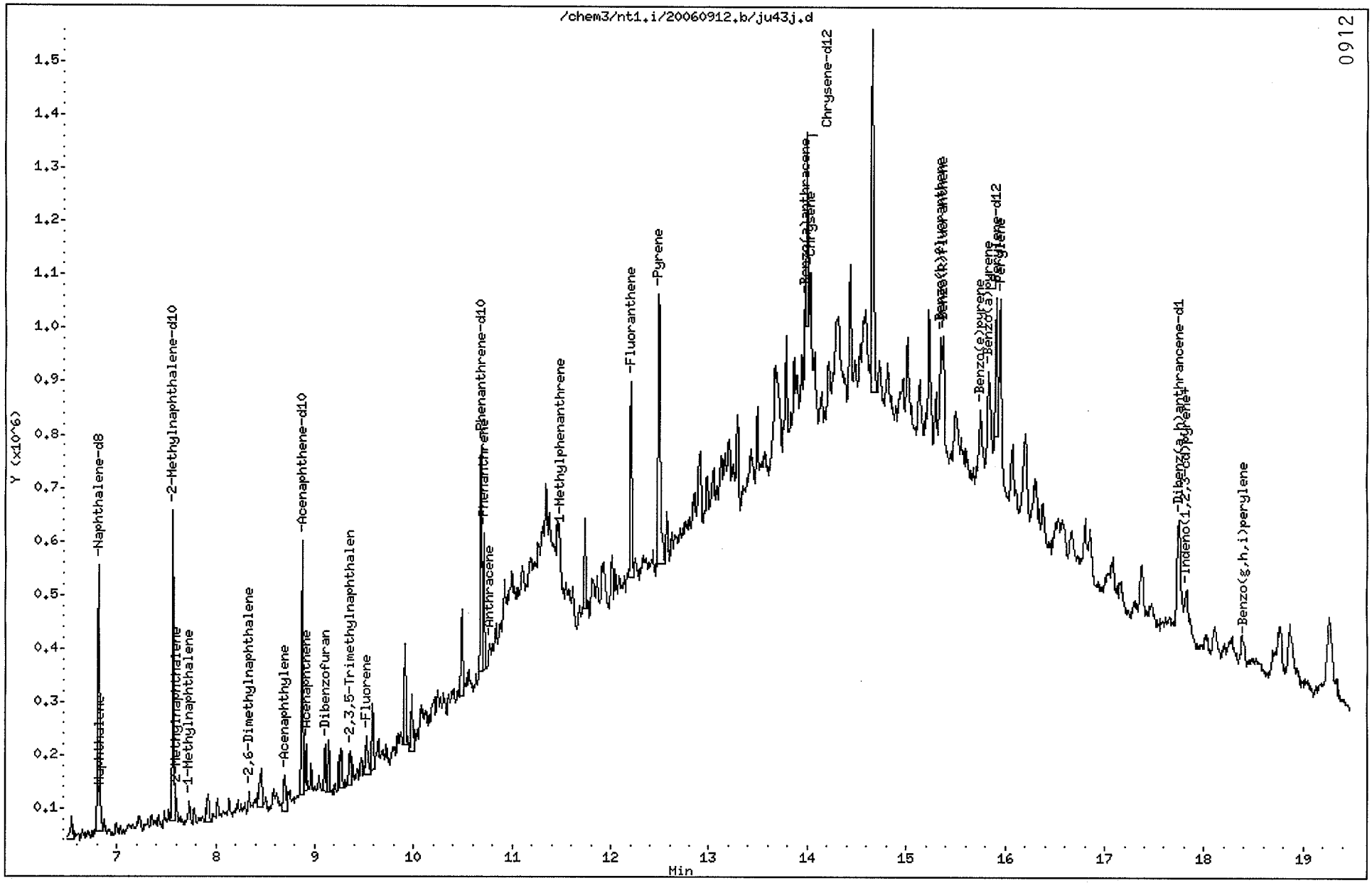
Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-02-K
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	149.7	139.1	92.91	32-97
$ 32 Dibenz(a,h)anthran	149.7	135.0	90.13	21-105

Data File: /chem3/nt1.i/20060912.b/ju43j.d
Date : 12-SEP-2006 17:10
Client ID: T4-S3-02-K
Sample Info: JU43J
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

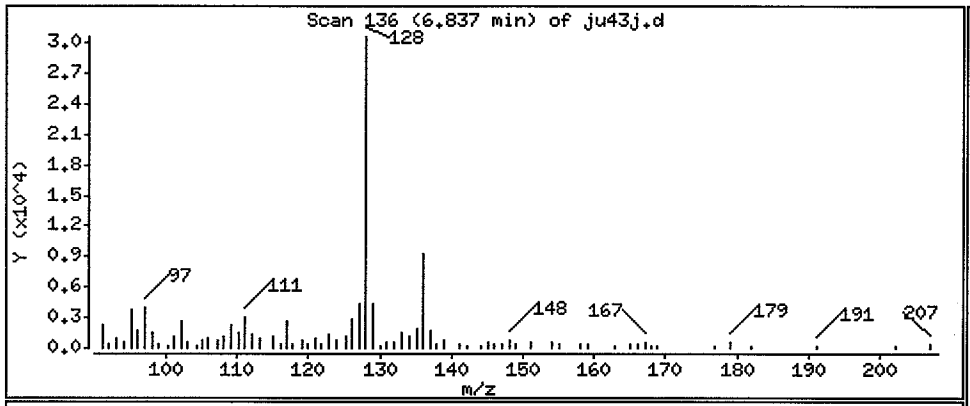
Operator: VTS

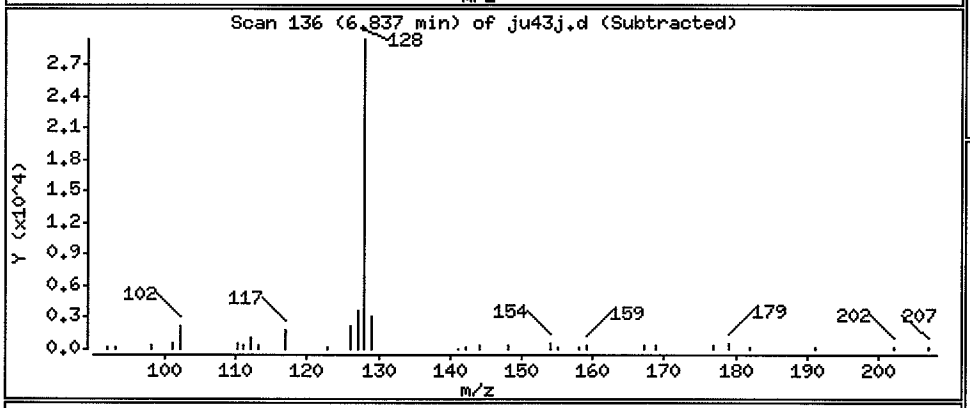
Column phase: ZB-5

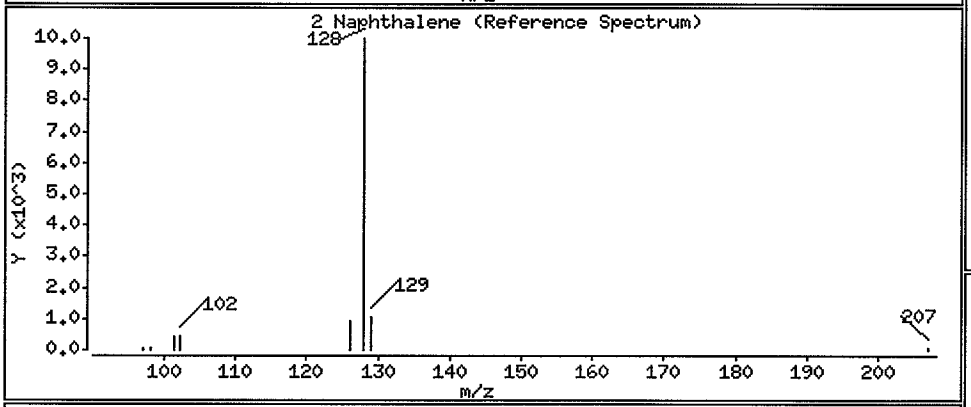
Column diameter: 0.25

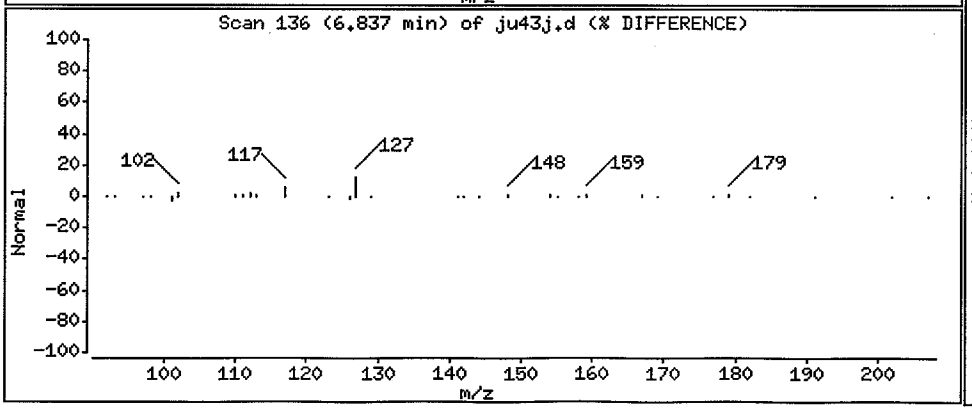
2 Naphthalene

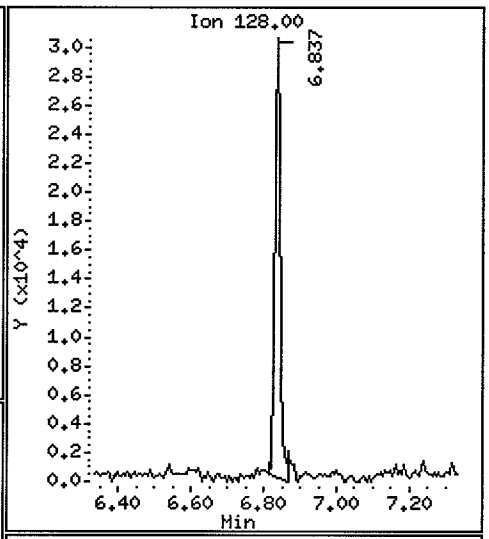
Concentration: 10.27 ug/kg

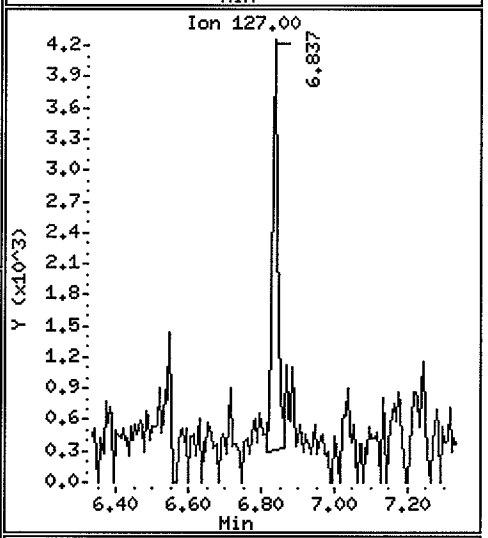


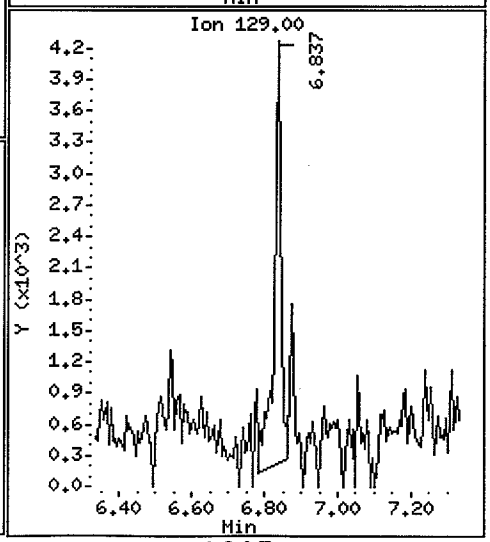












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

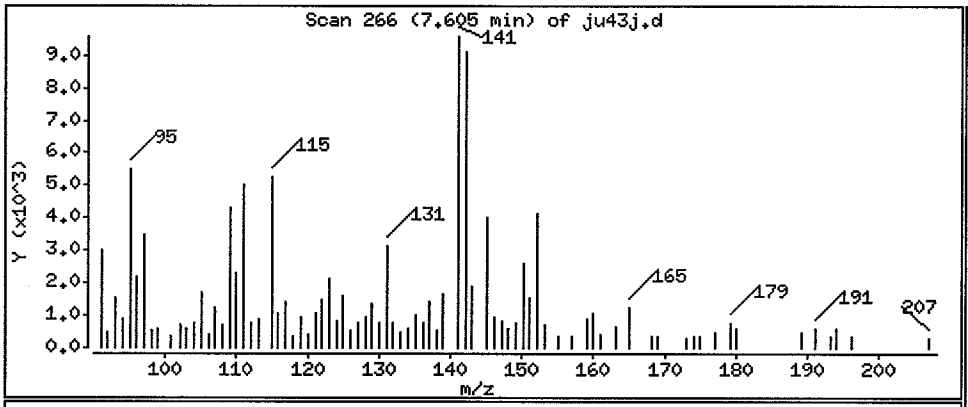
Operator: VTS

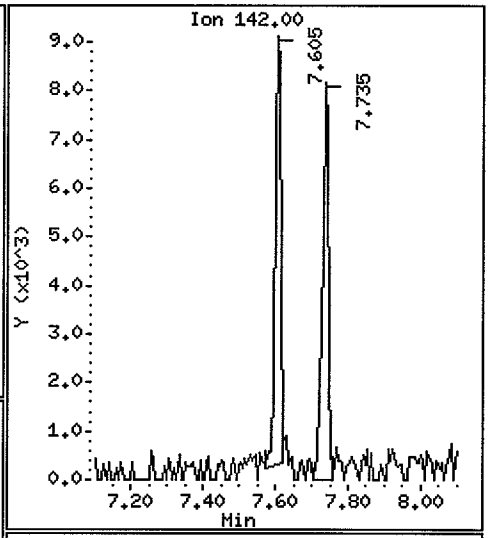
Column phase: ZB-5

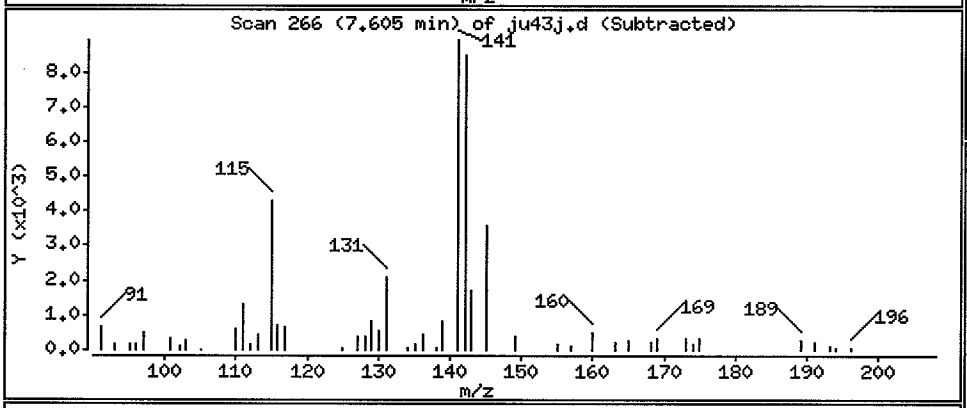
Column diameter: 0.25

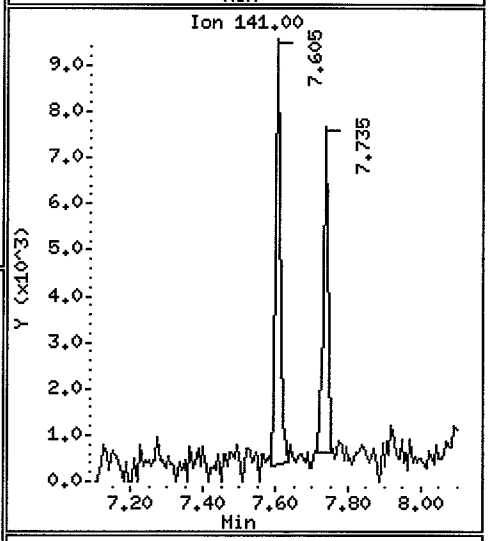
4 2-Methylnaphthalene

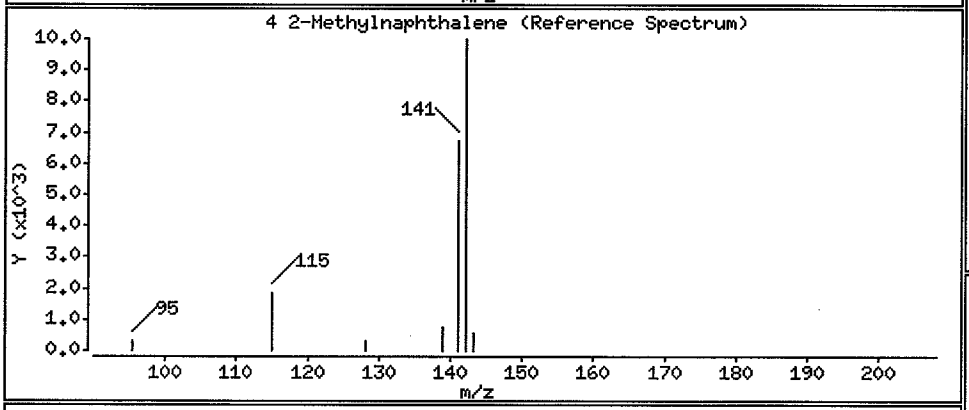
Concentration: 5.881 ug/kg

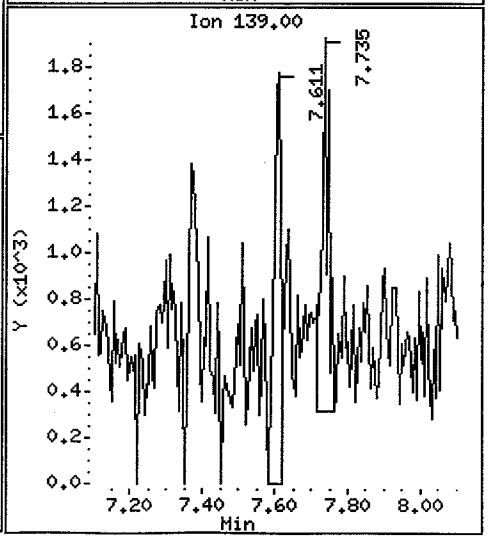


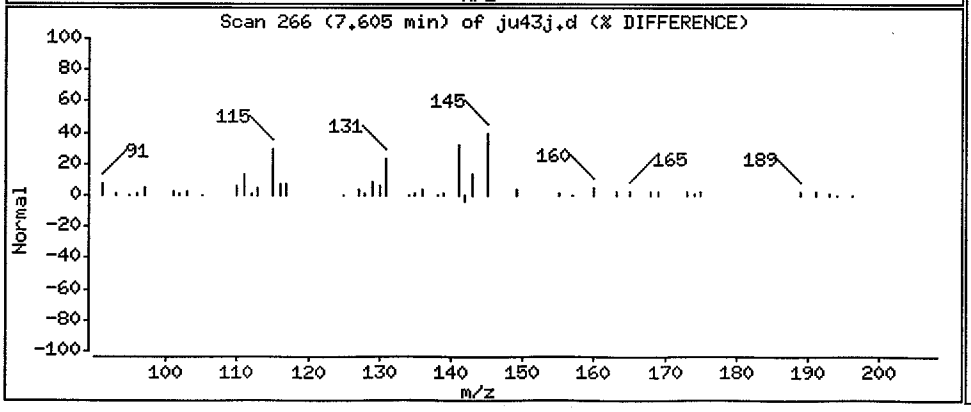












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

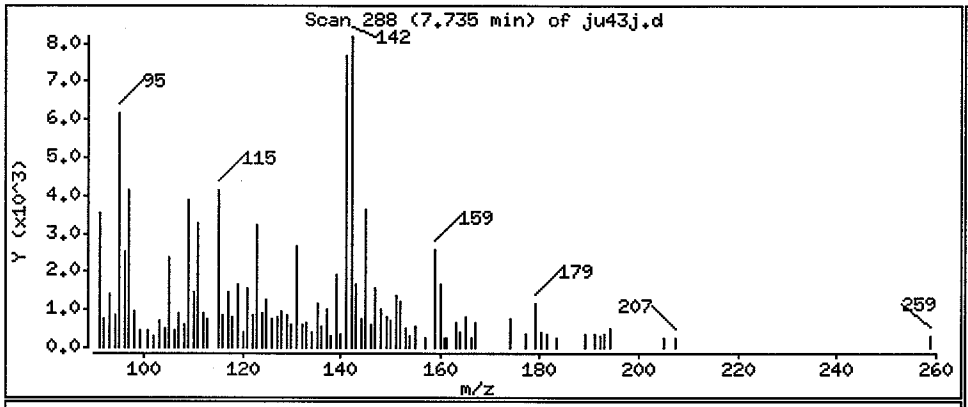
Operator: VTS

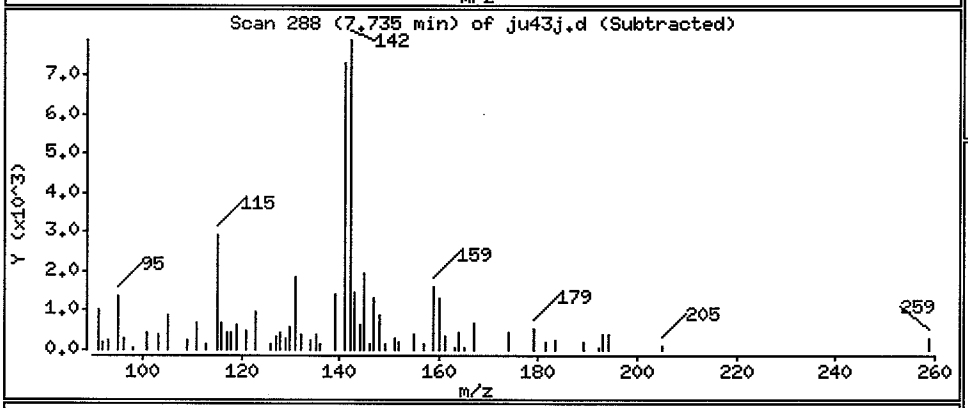
Column phase: ZB-5

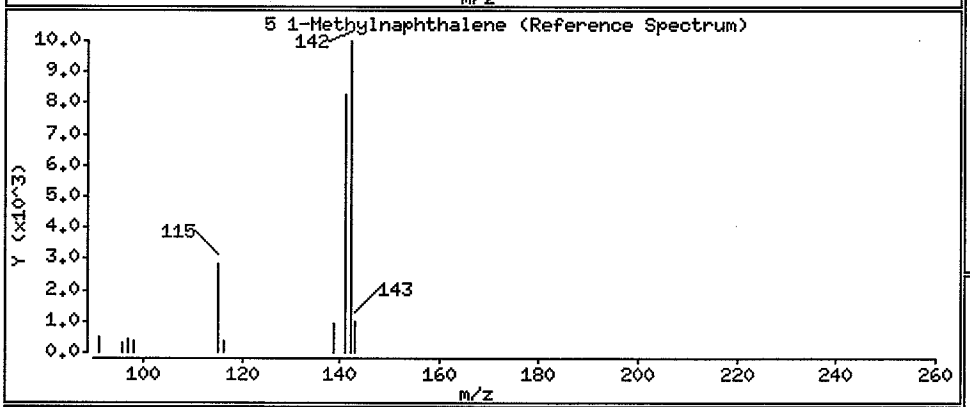
Column diameter: 0.25

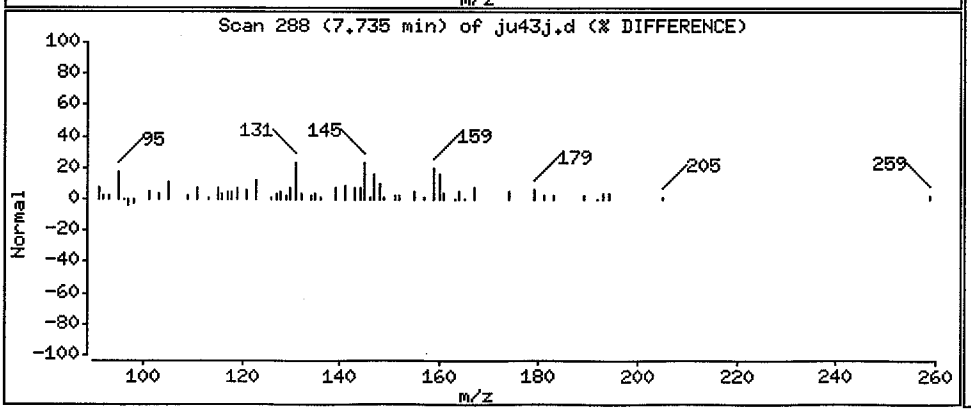
5 1-Methylnaphthalene

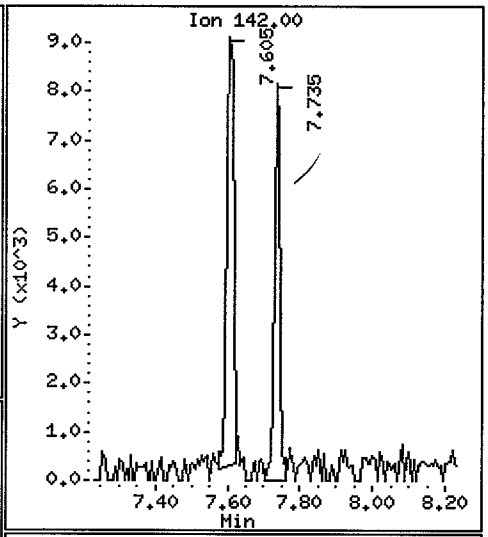
Concentration: 4.704 ug/kg

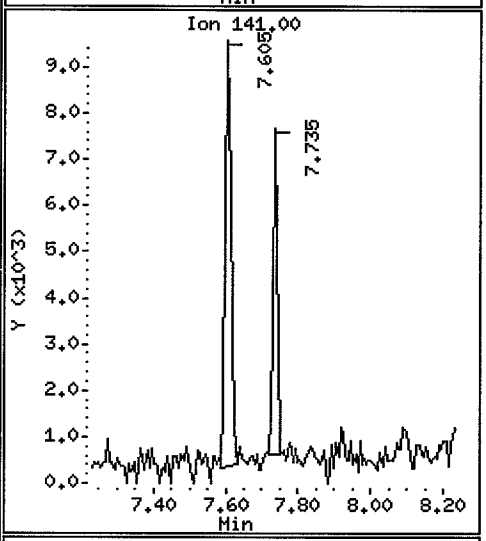


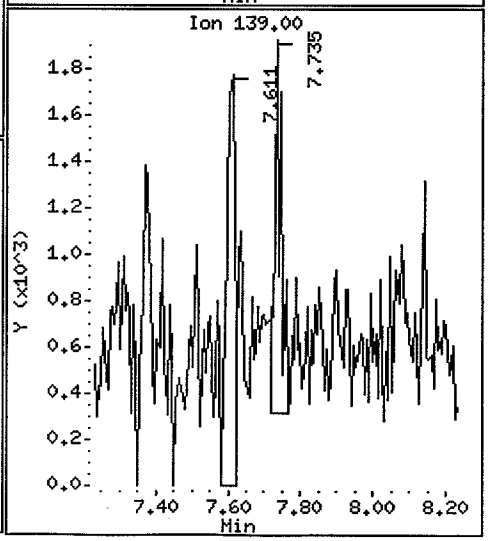












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

Operator: VTS

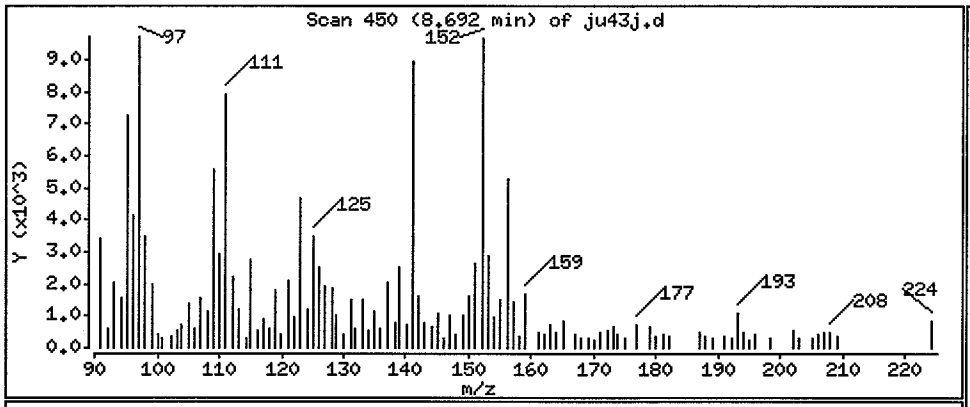
Column phase: ZB-5

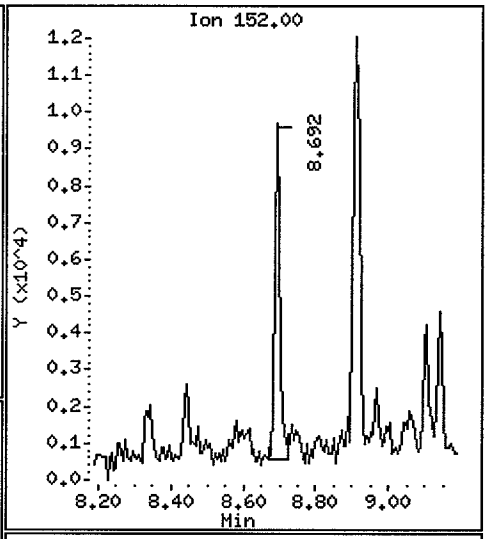
Column diameter: 0.25

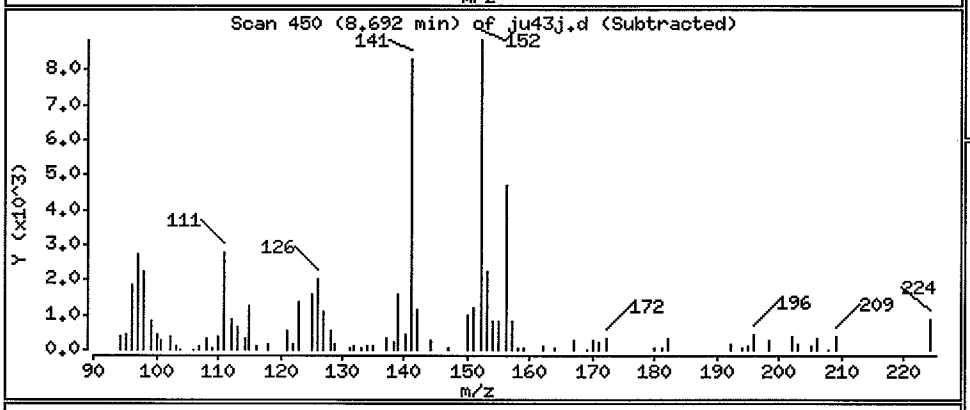
7 Acenaphthylene

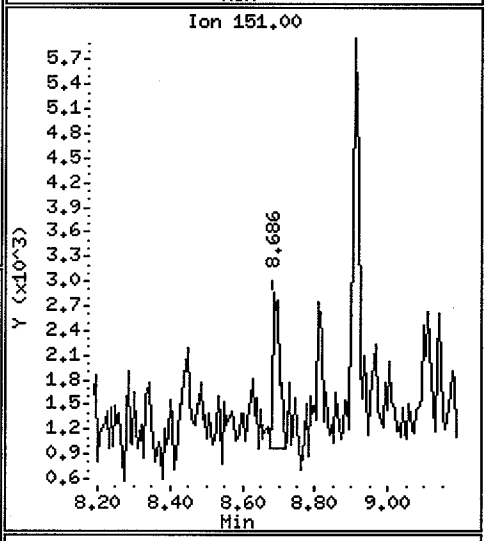
Concentration: 3.323 ug/kg

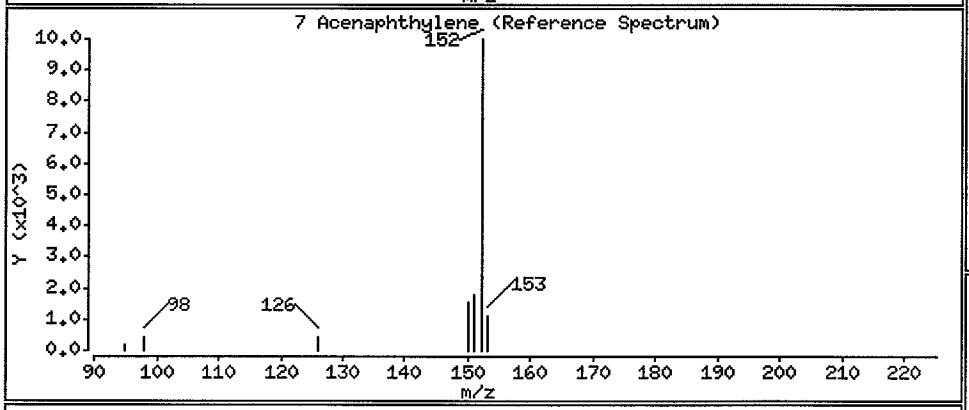
JCL

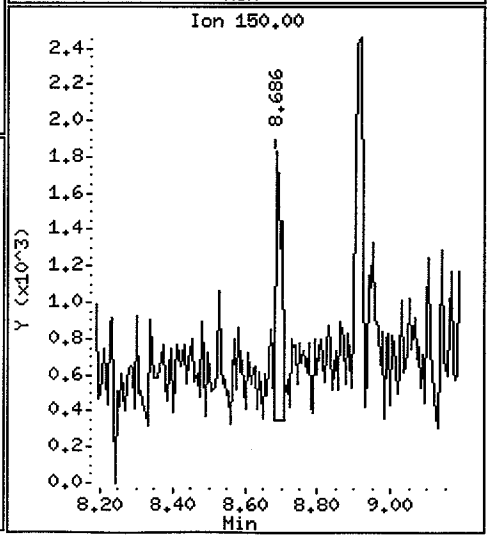


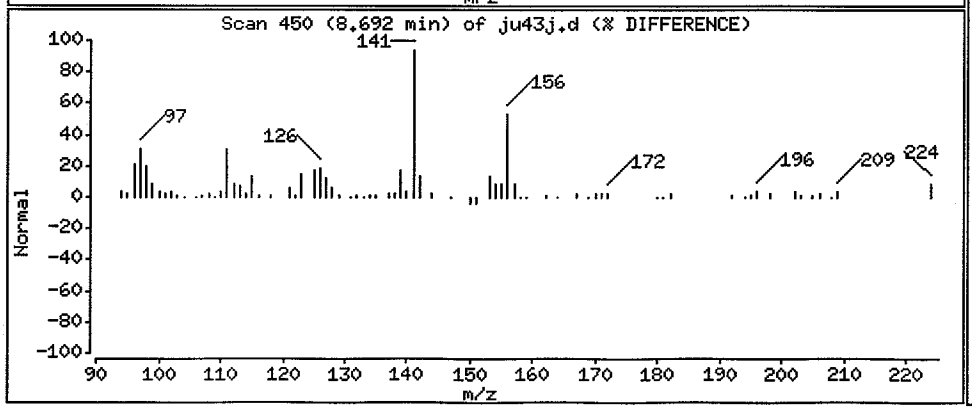












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

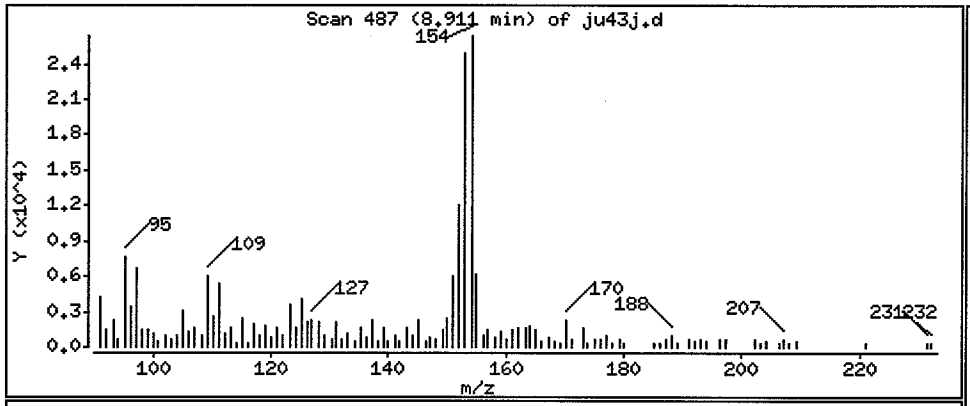
Operator: VTS

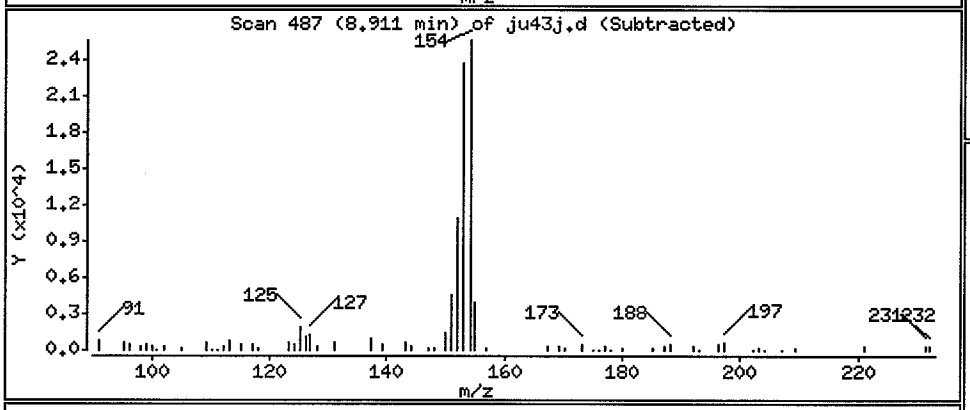
Column phase: ZB-5

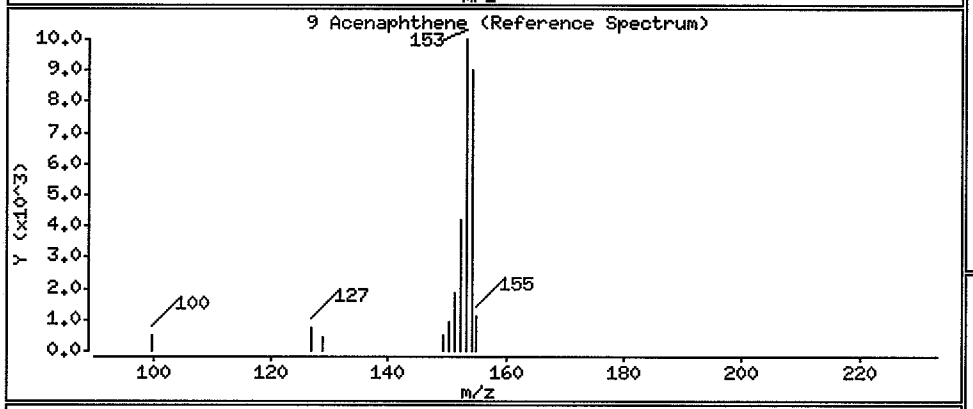
Column diameter: 0.25

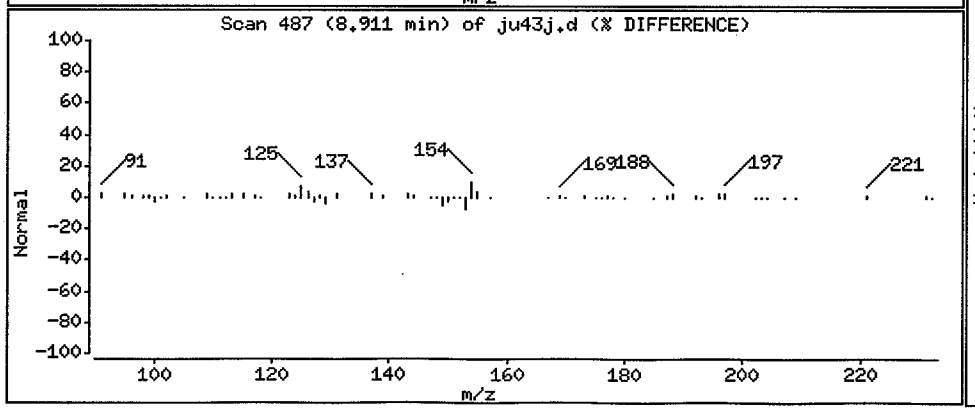
9 Acenaphthene

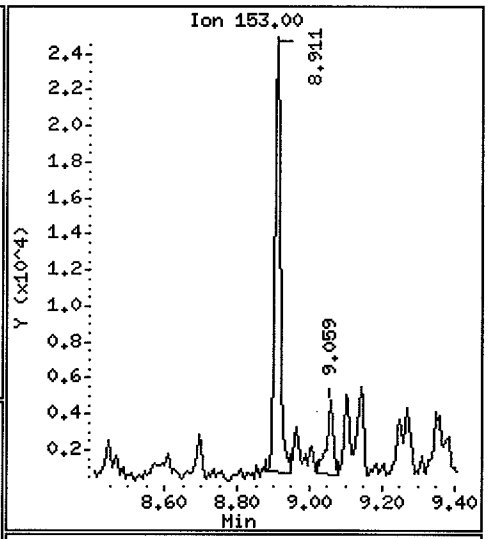
Concentration: 16.25 ug/kg

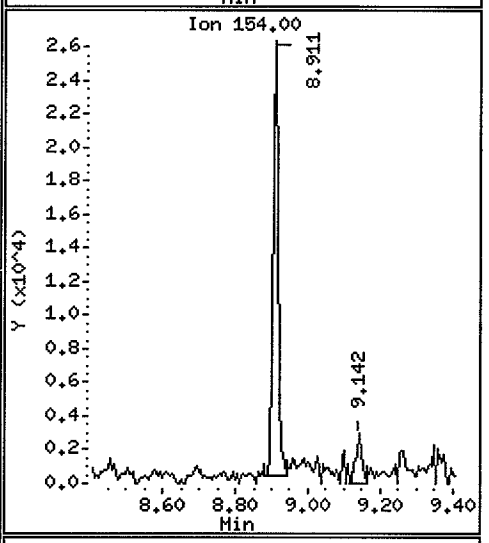


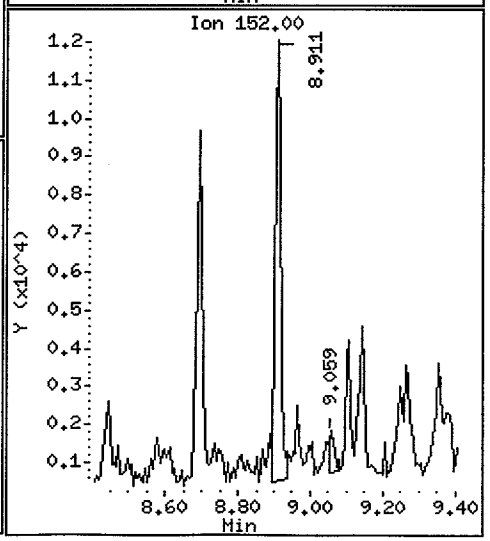












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

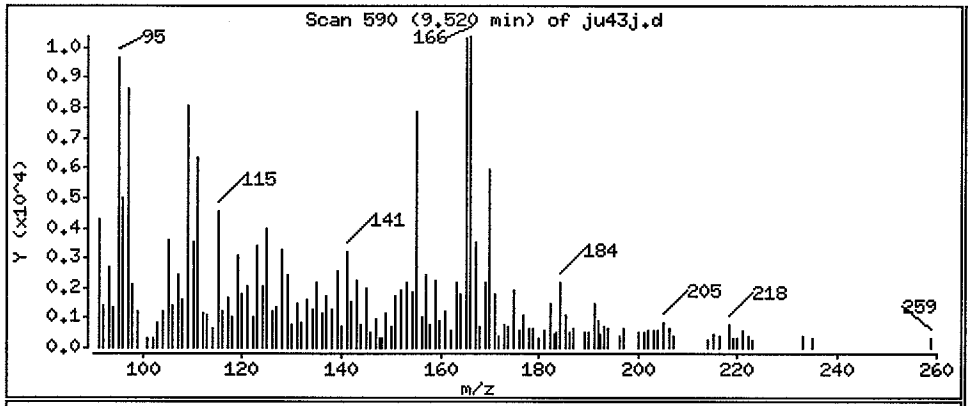
Operator: VTS

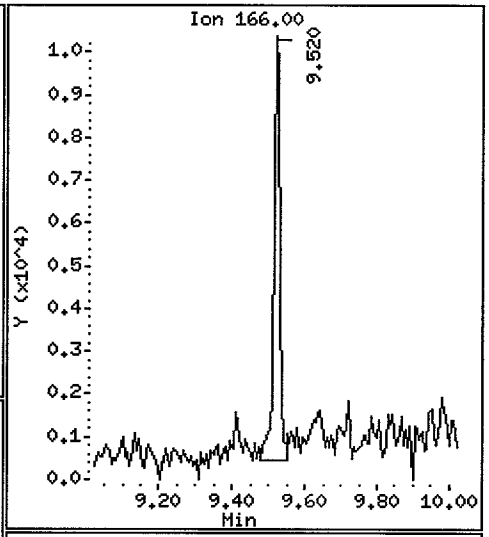
Column phase: ZB-5

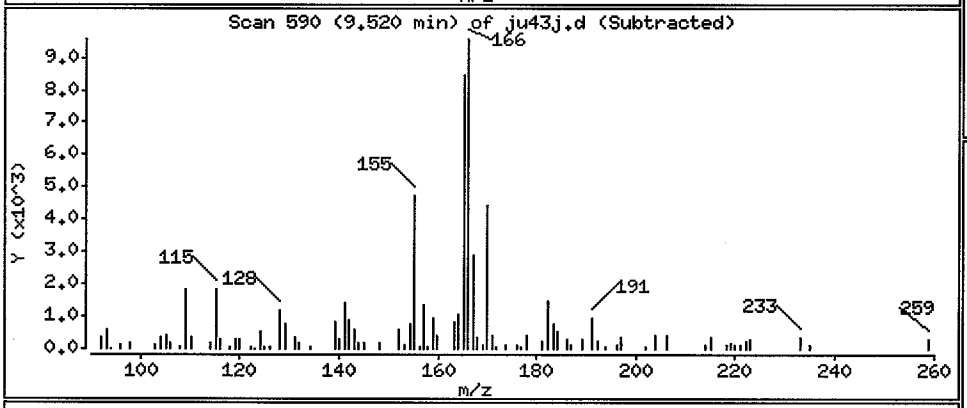
Column diameter: 0.25

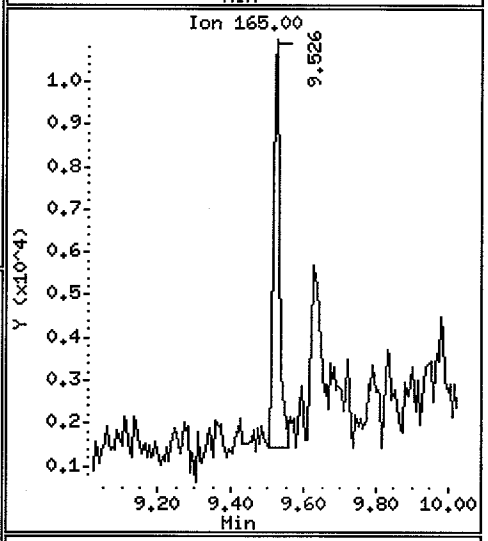
11 Fluorene

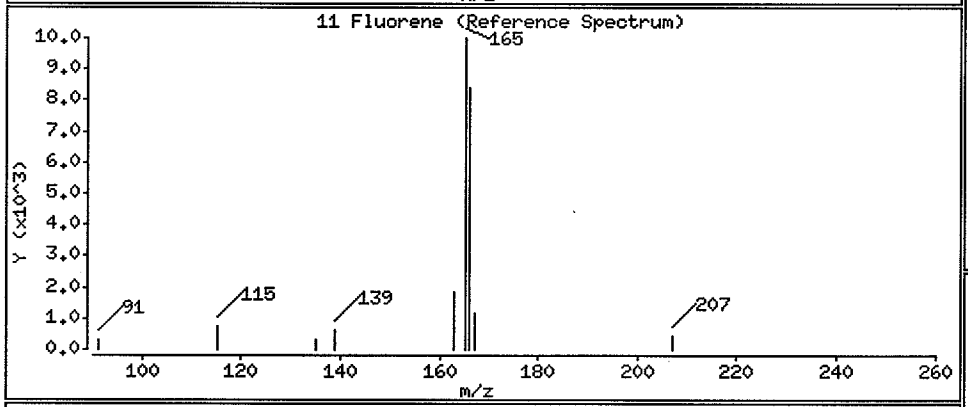
Concentration: 6.649 ug/kg

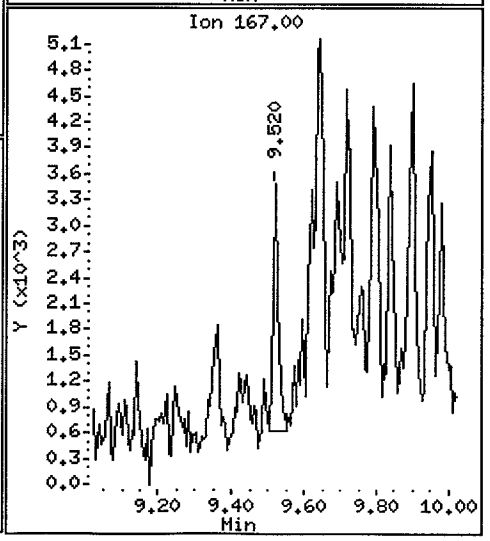


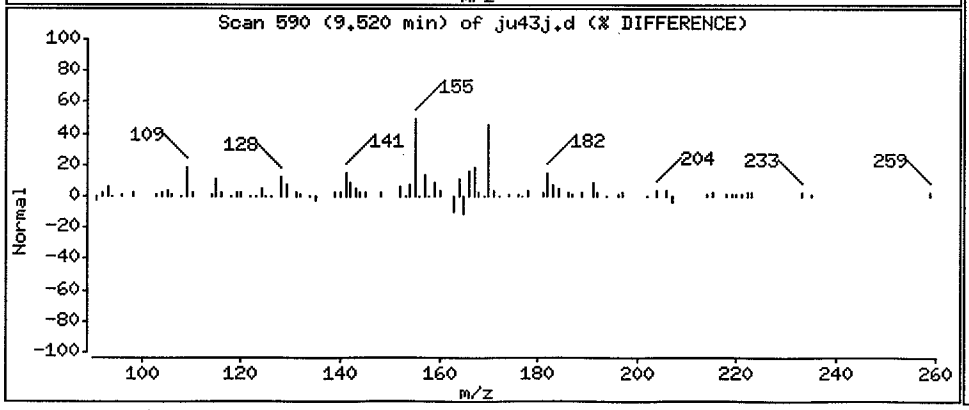












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

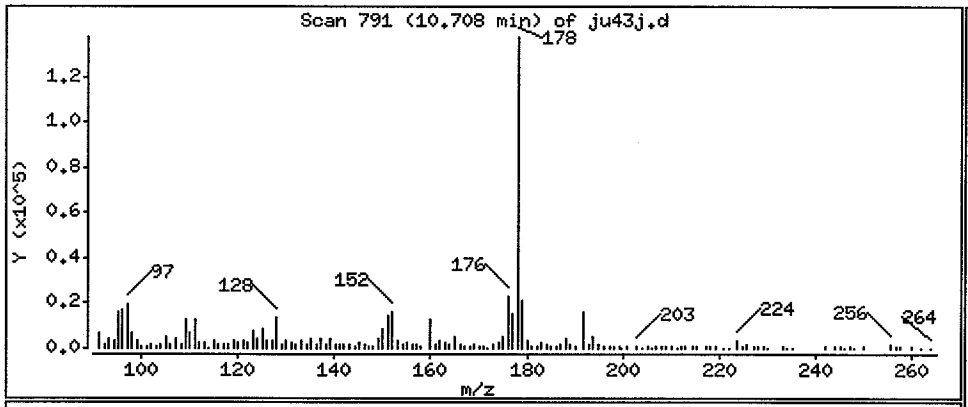
Operator: VTS

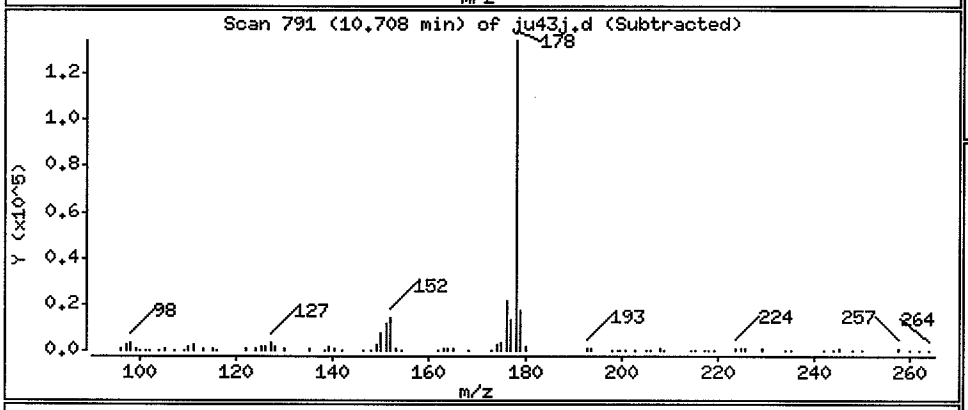
Column phase: ZB-5

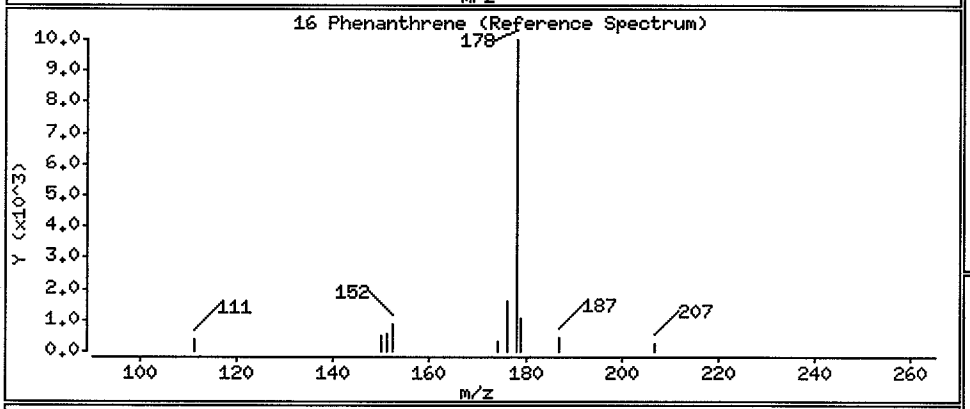
Column diameter: 0.25

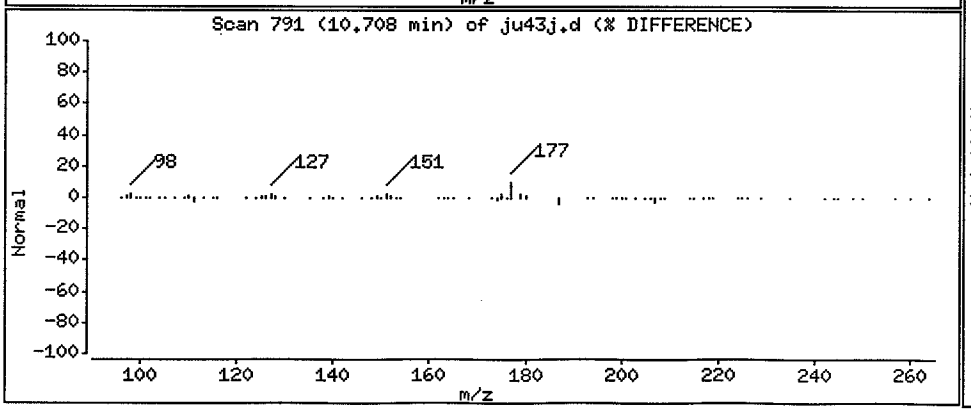
16 Phenanthrene

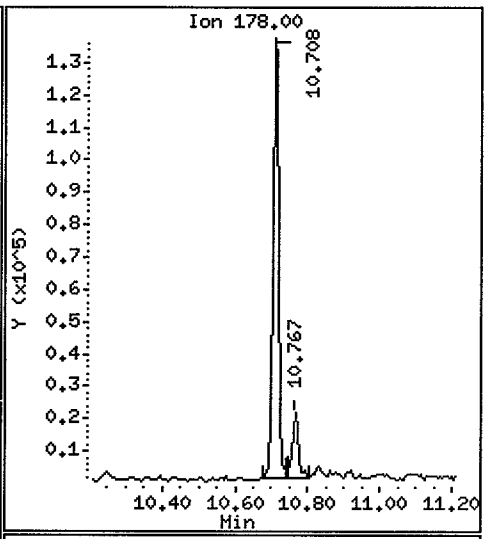
Concentration: 65.60 ug/kg

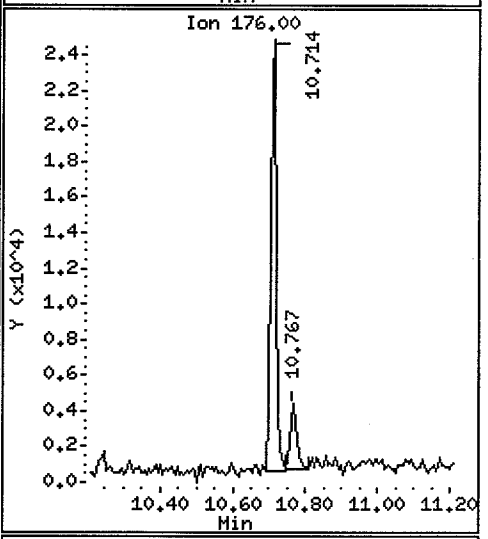


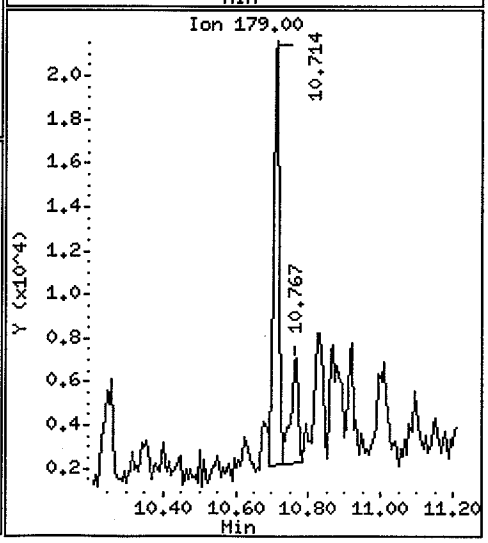












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

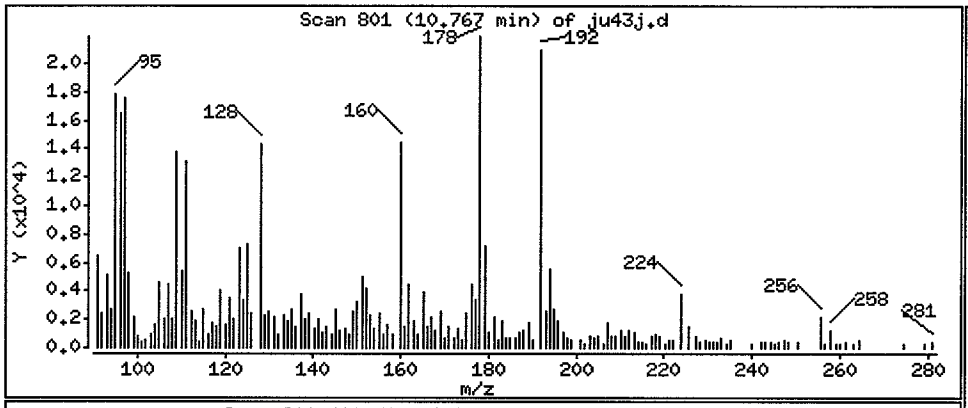
Operator: VTS

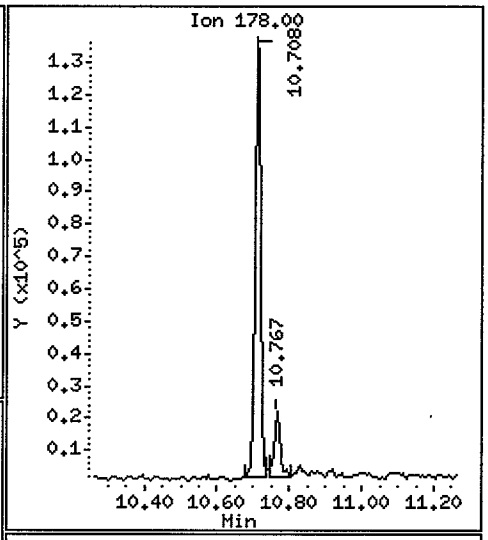
Column phase: ZB-5

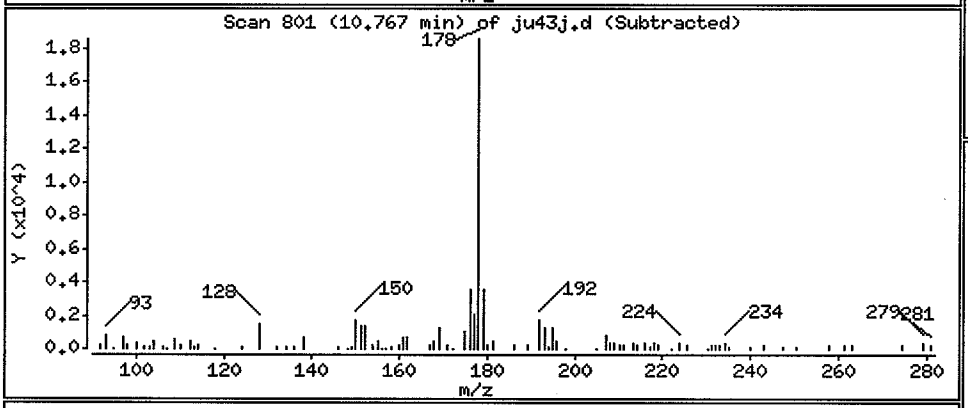
Column diameter: 0.25

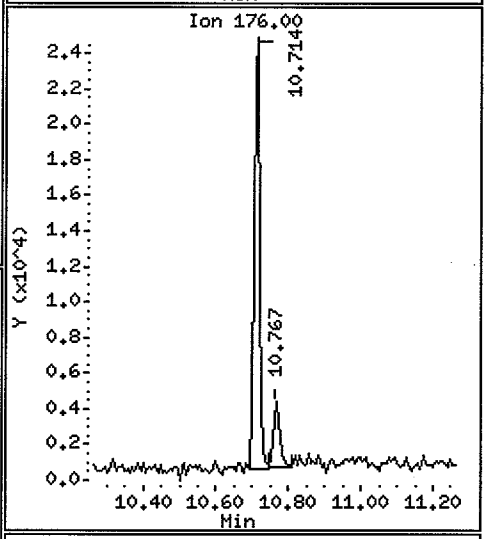
17 Anthracene

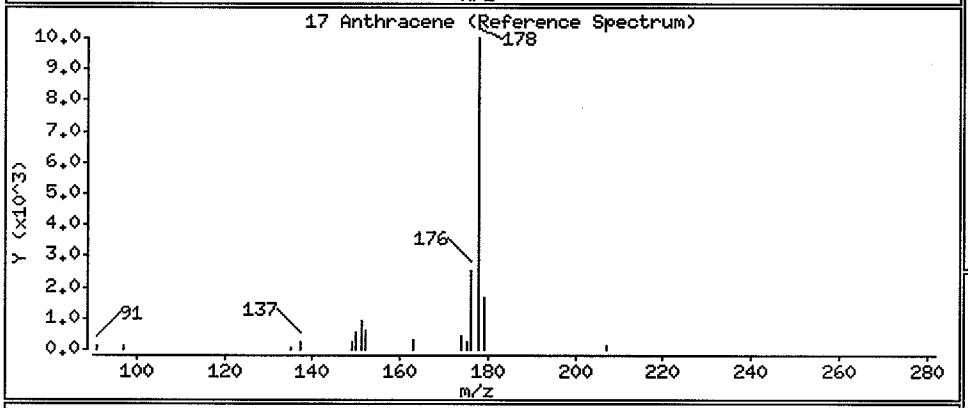
Concentration: 10.79 ug/kg

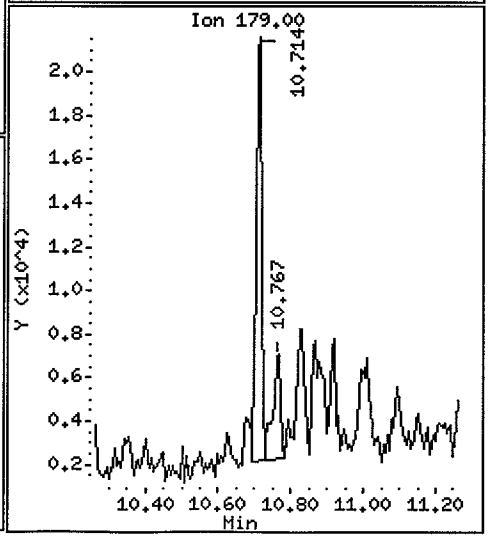


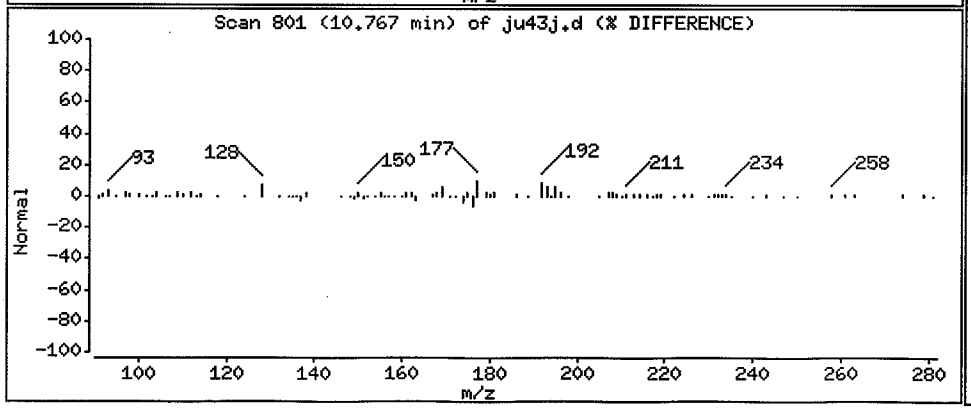












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

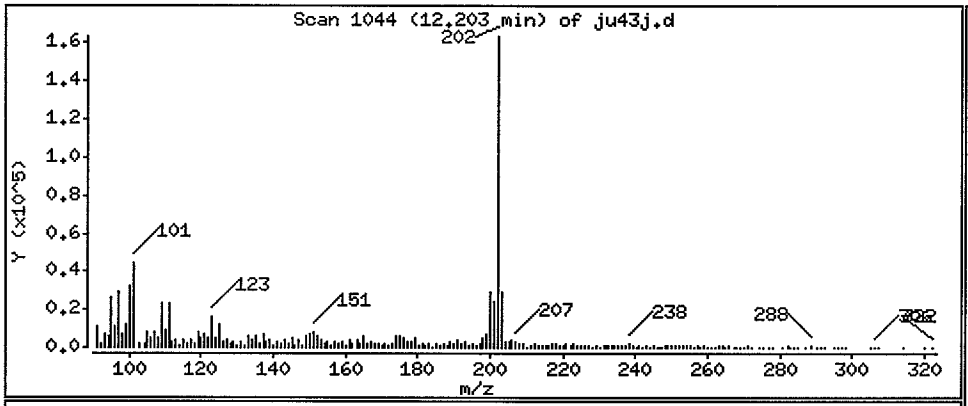
Operator: VTS

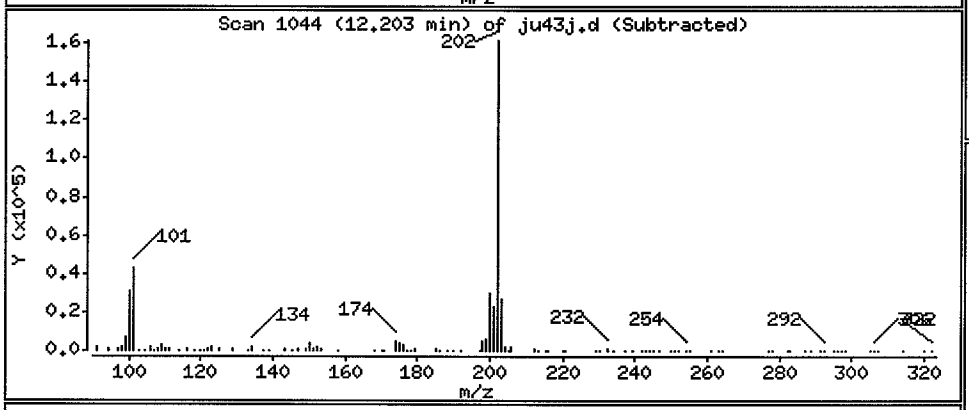
Column phase: ZB-5

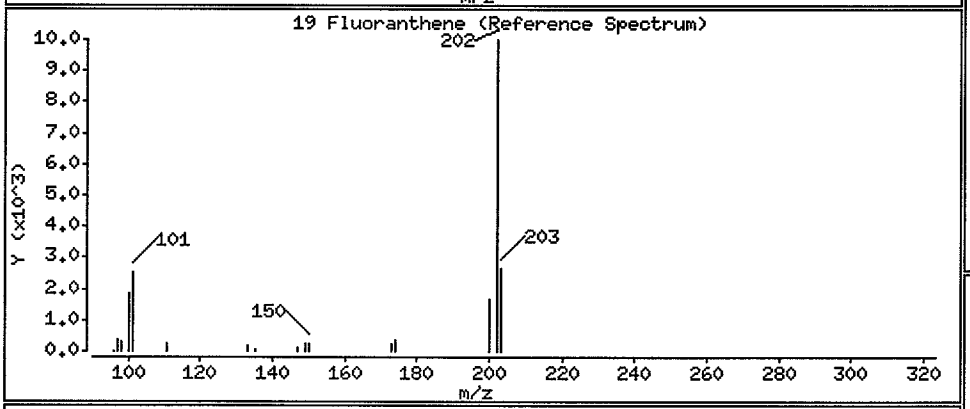
Column diameter: 0.25

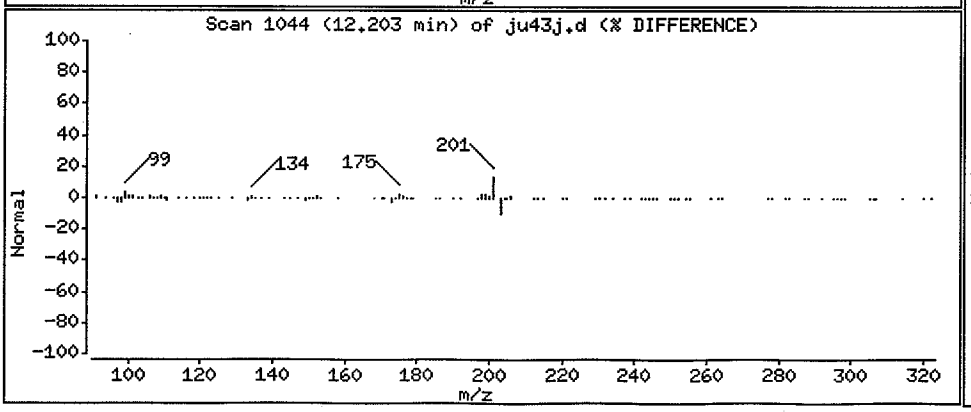
19 Fluoranthene

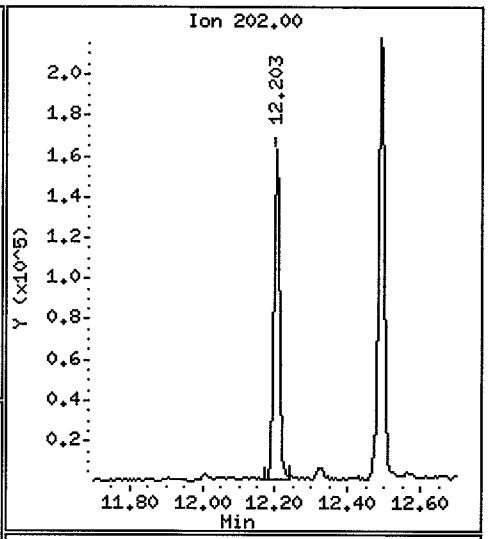
Concentration: 91.91 ug/kg

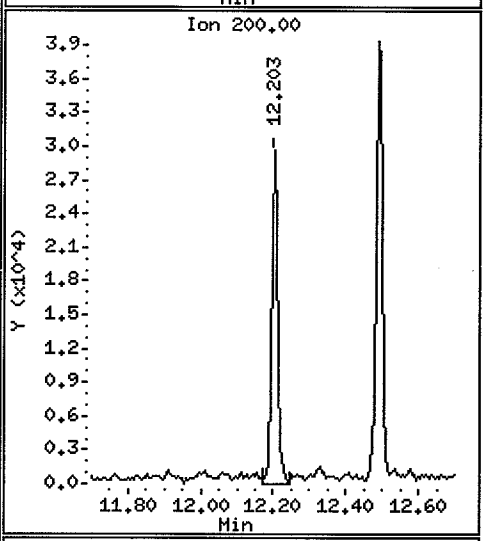


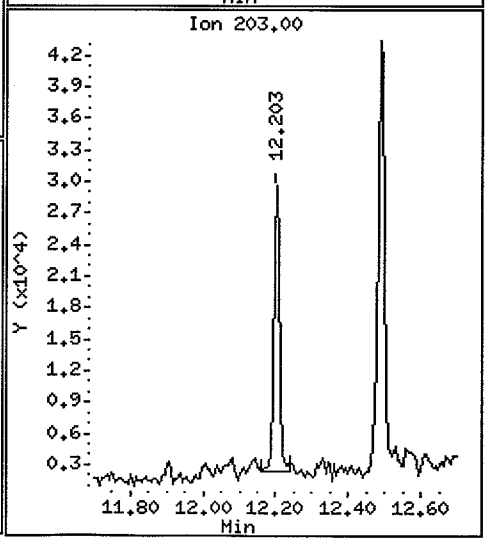












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

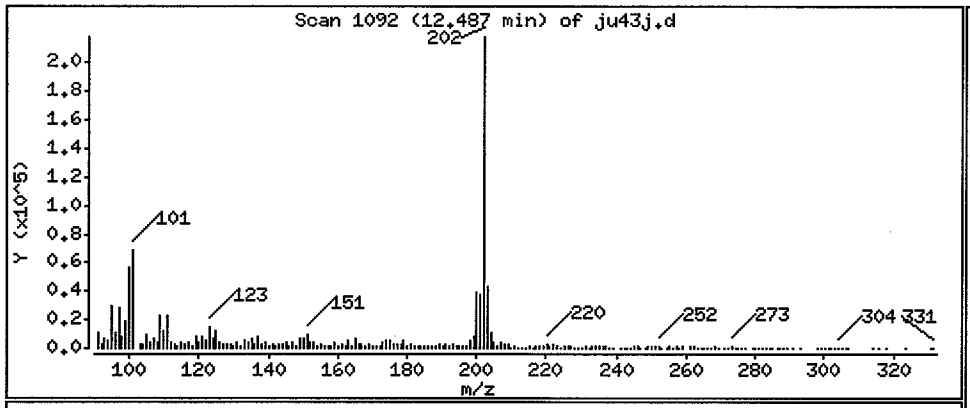
Operator: VTS

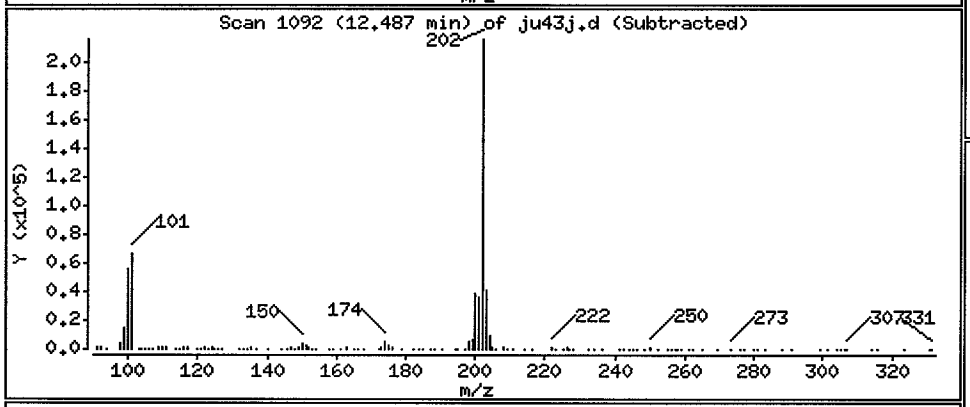
Column phase: ZB-5

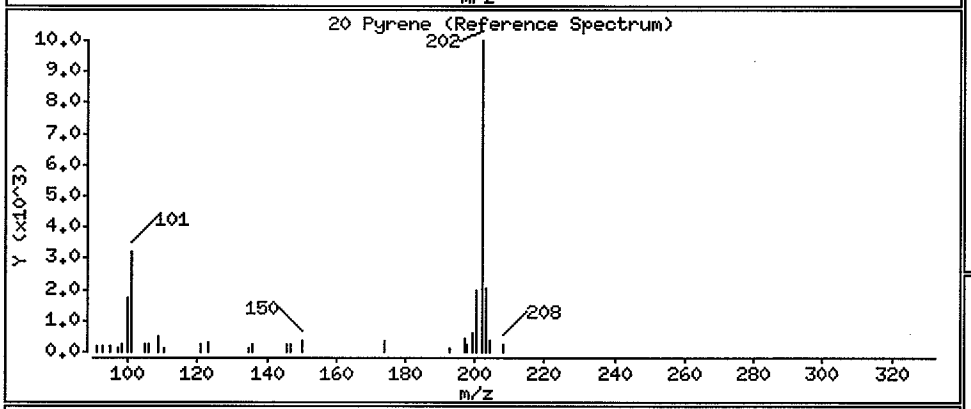
Column diameter: 0.25

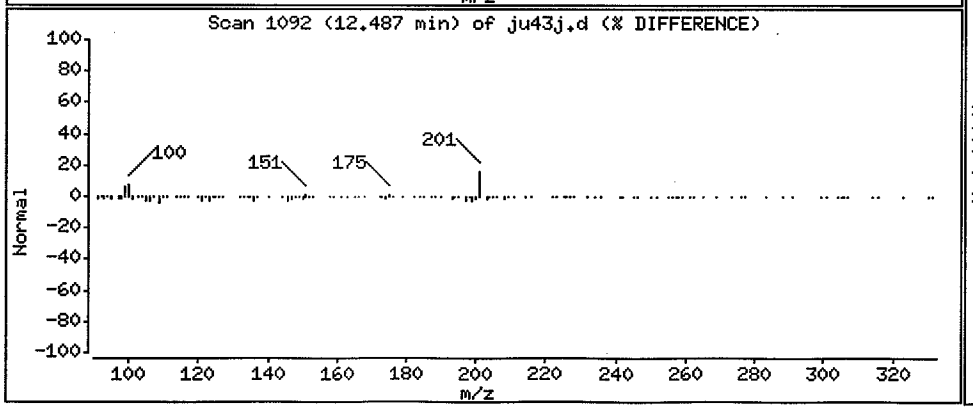
20 Pyrene

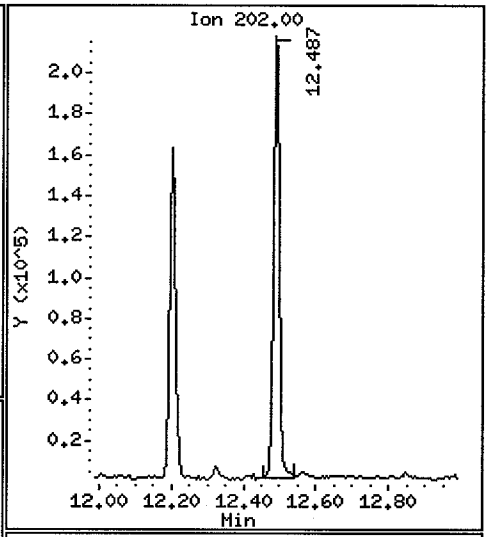
Concentration: 111.7 ug/kg

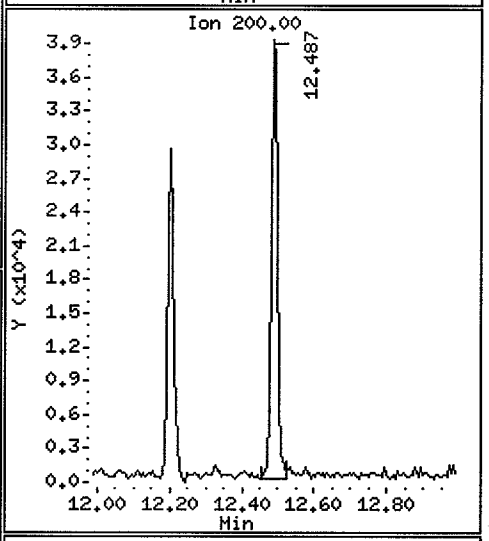


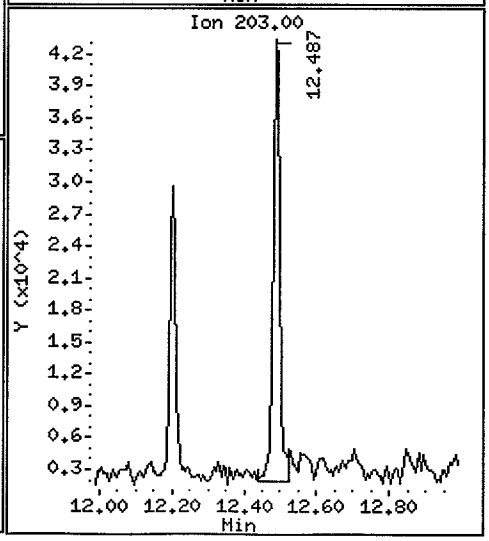












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

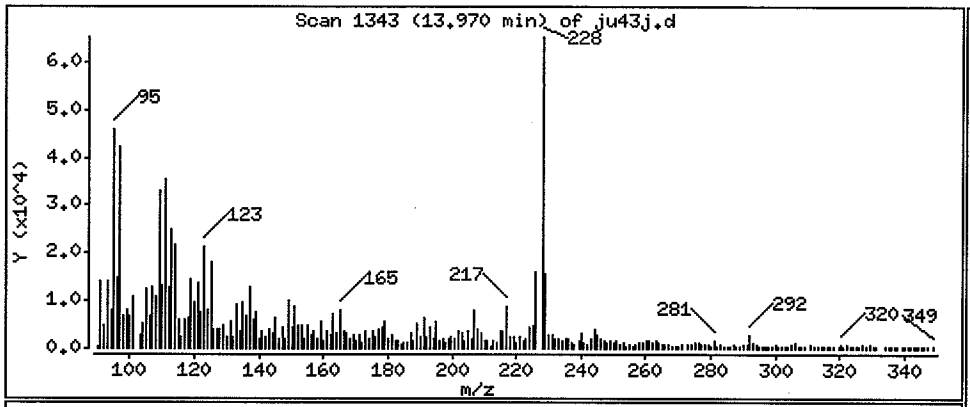
Operator: VTS

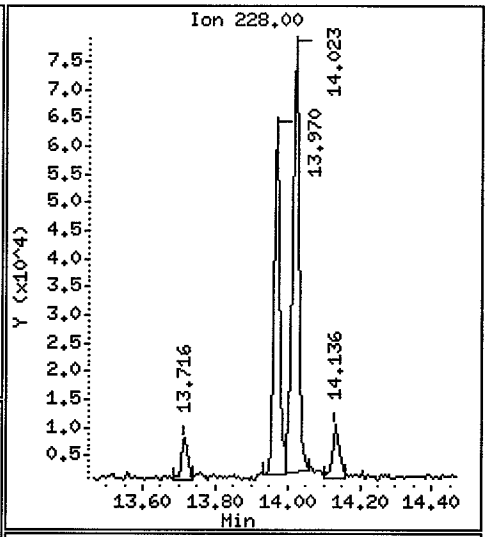
Column phase: ZB-5

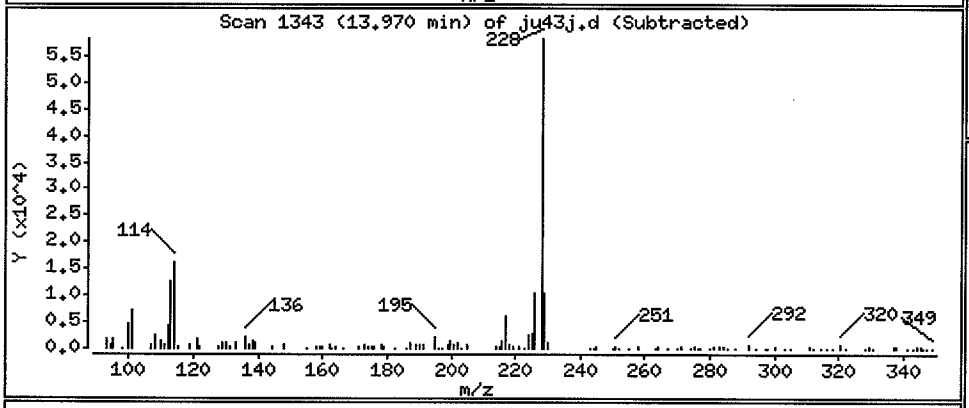
Column diameter: 0.25

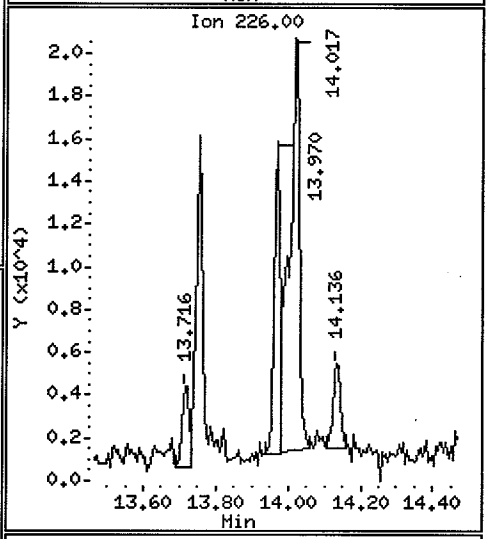
22 Benzo(a)anthracene

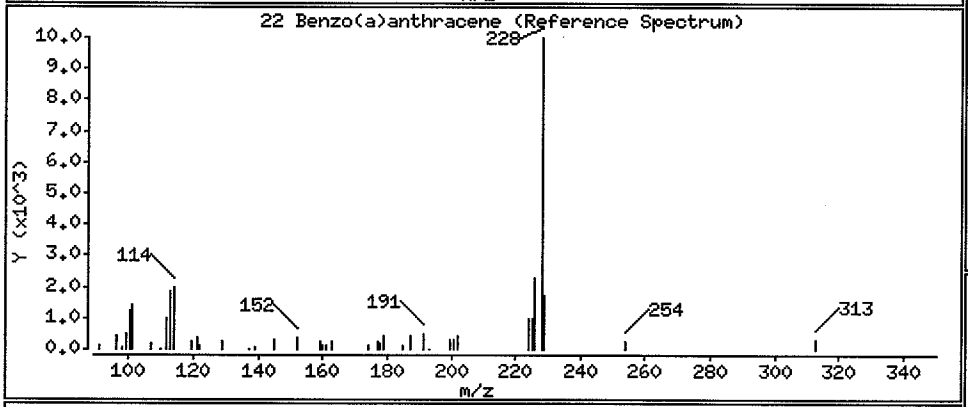
Concentration: 37.75 ug/kg

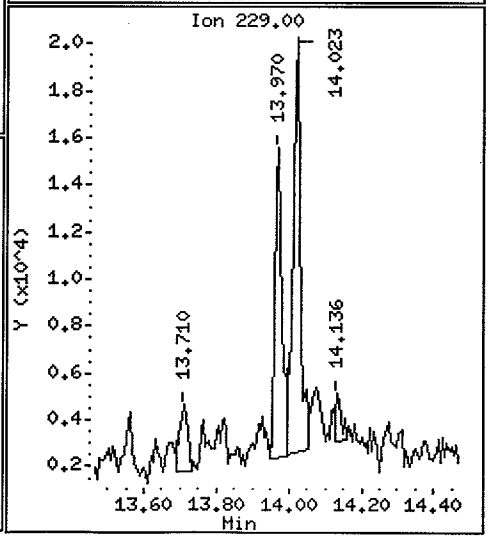


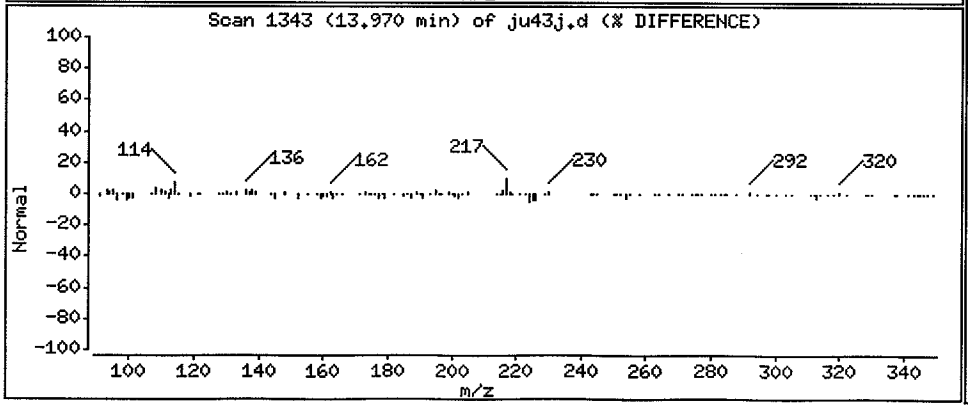












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

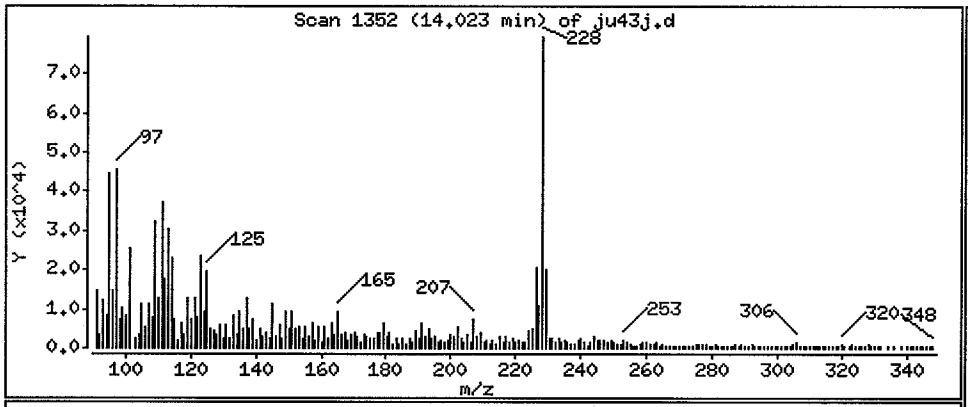
Operator: VTS

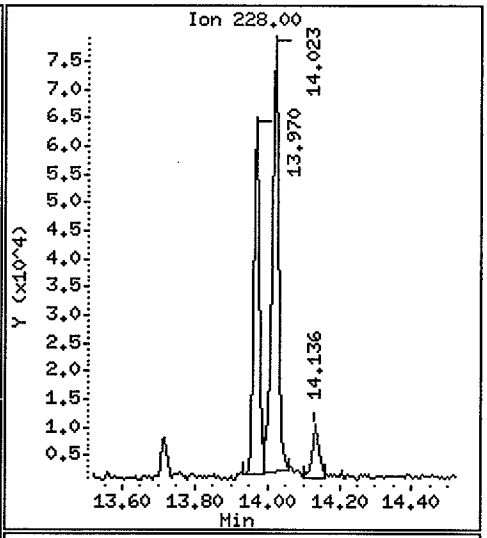
Column phase: ZB-5

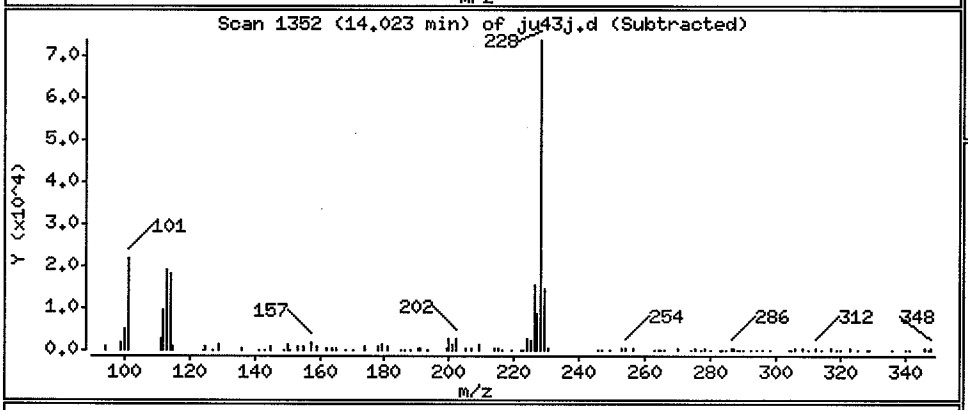
Column diameter: 0.25

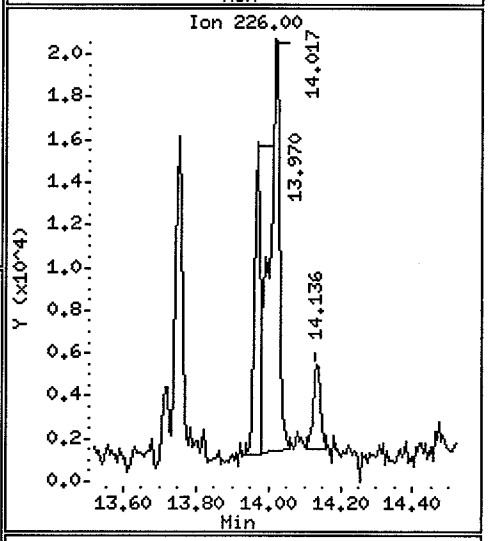
24 Chrysene

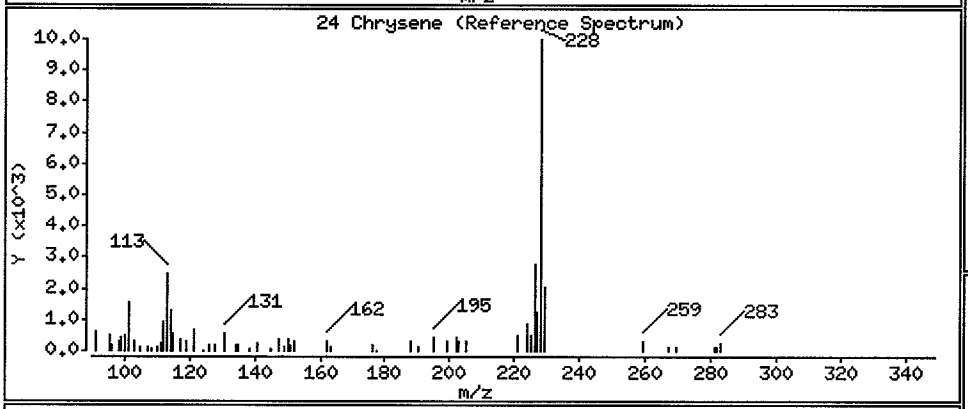
Concentration: 55.34 ug/kg

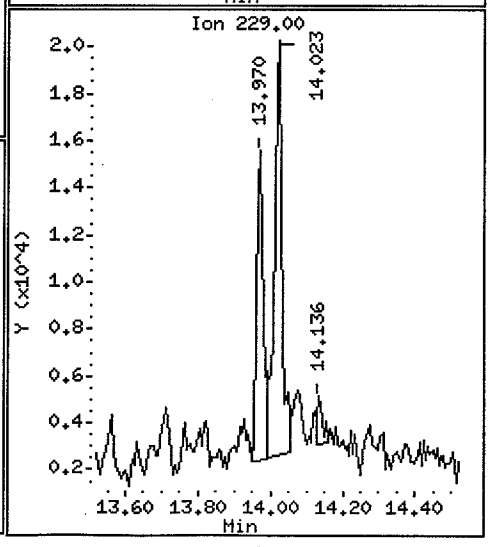


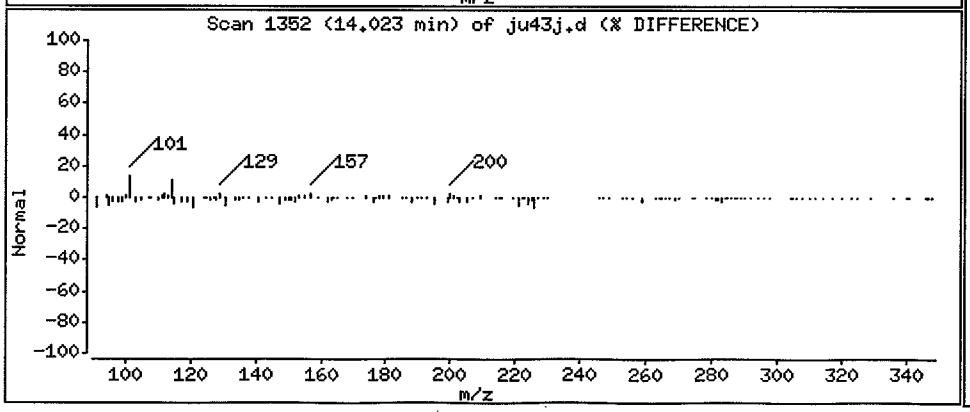












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

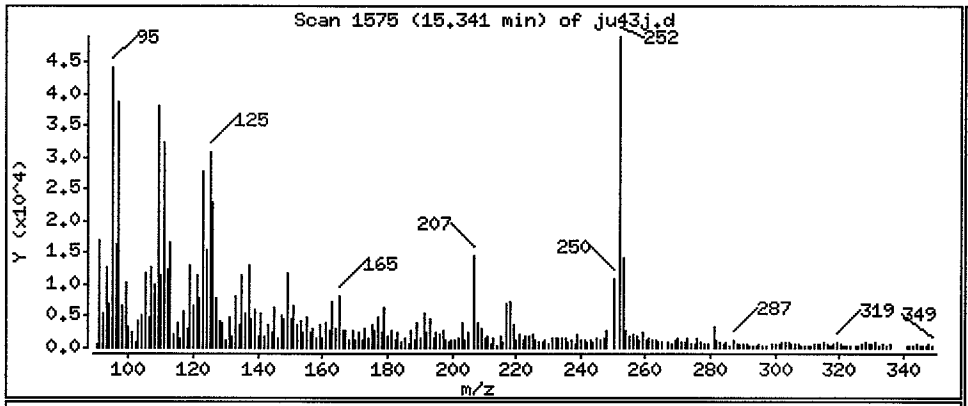
Operator: VTS

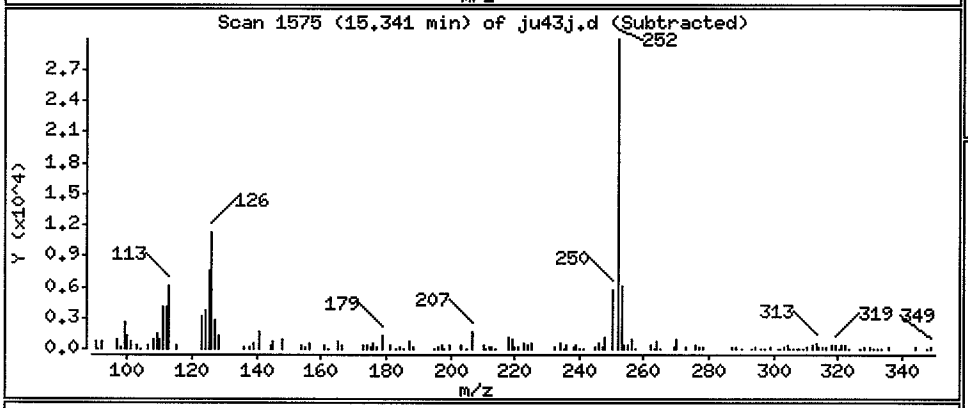
Column phase: ZB-5

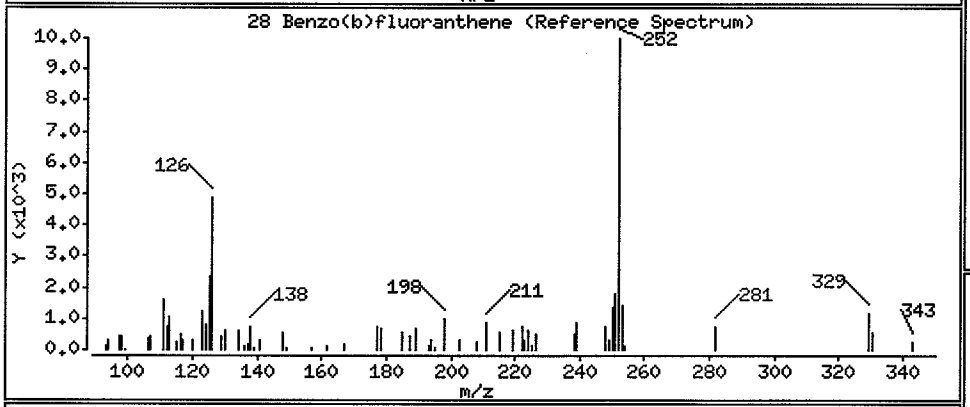
Column diameter: 0.25

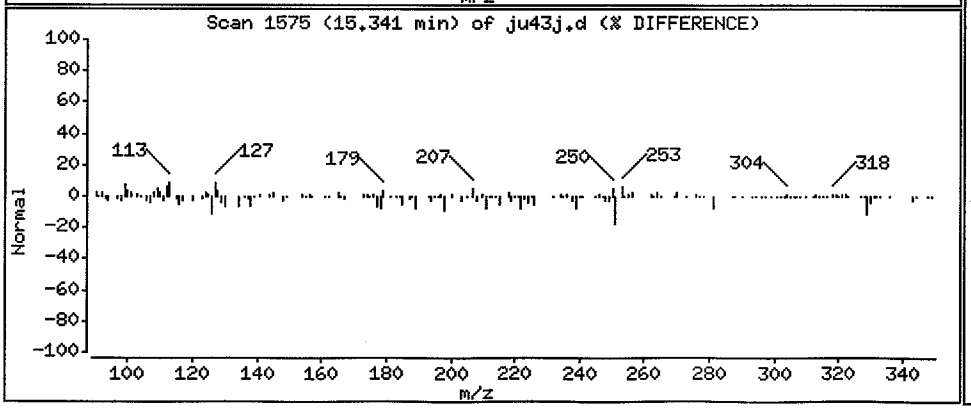
28 Benzo(b)fluoranthene

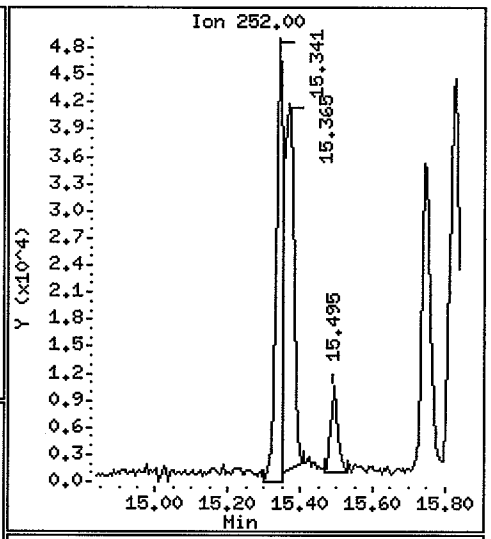
Concentration: 36.90 ug/kg

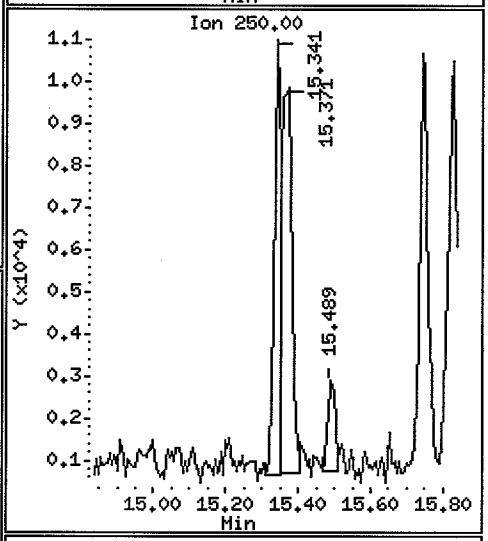


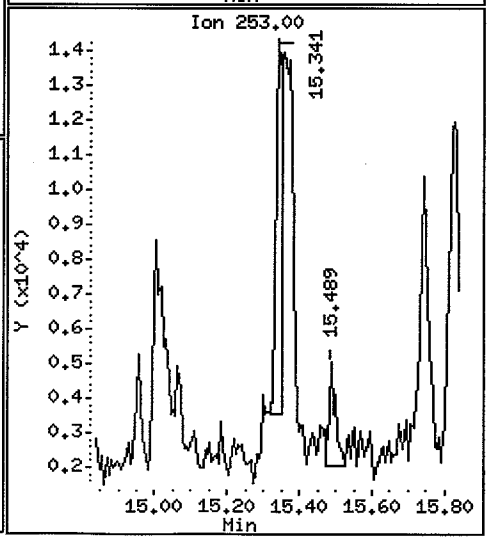












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

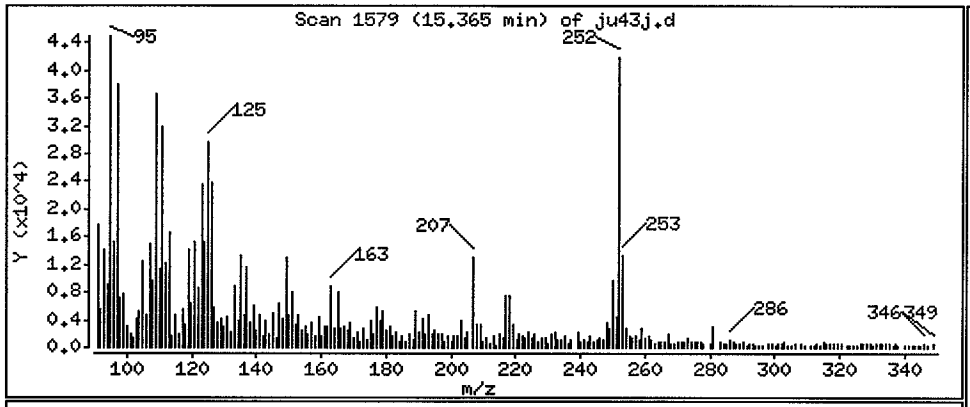
Operator: VTS

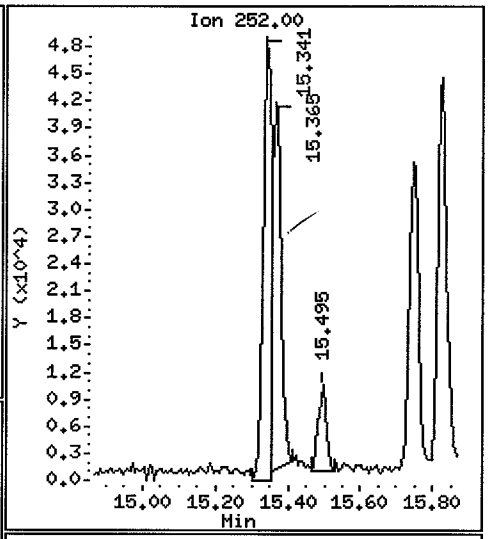
Column phase: ZB-5

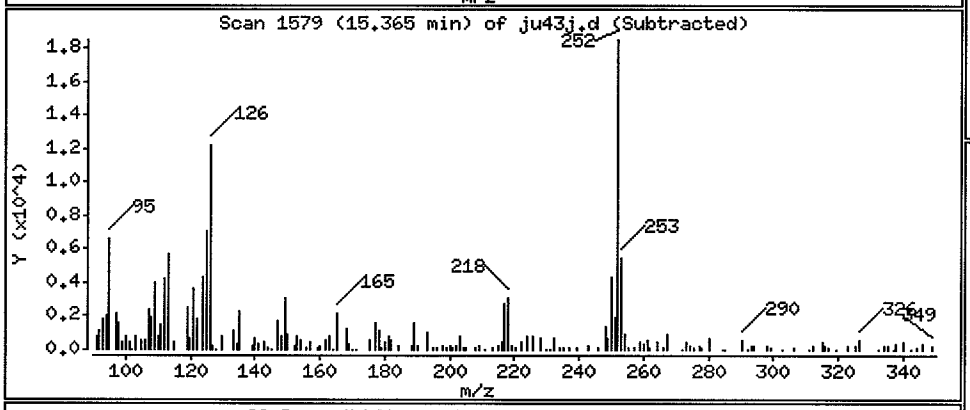
Column diameter: 0.25

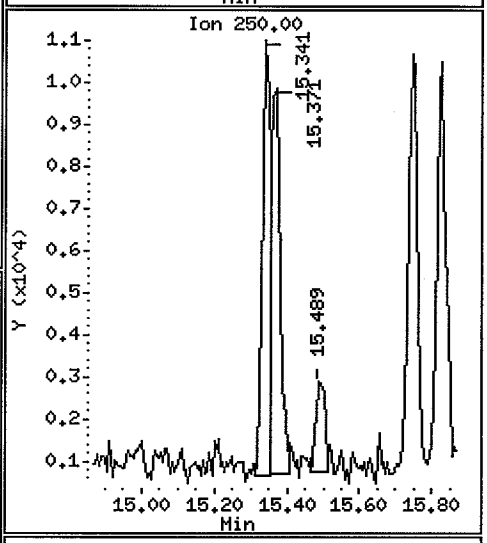
29 Benzo(k)fluoranthene

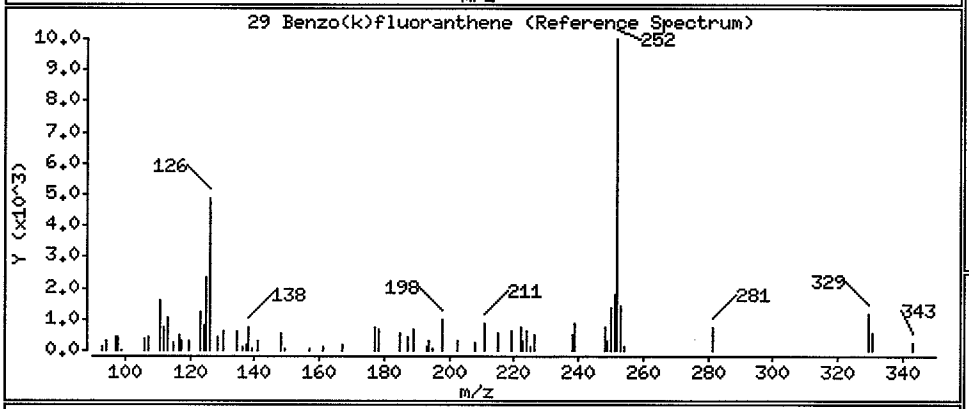
Concentration: 38.14 ug/kg

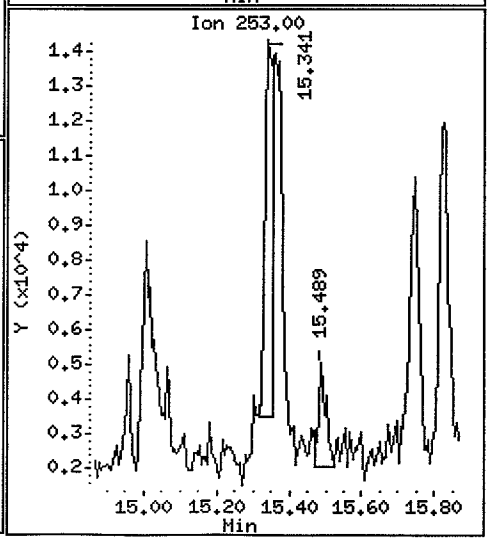


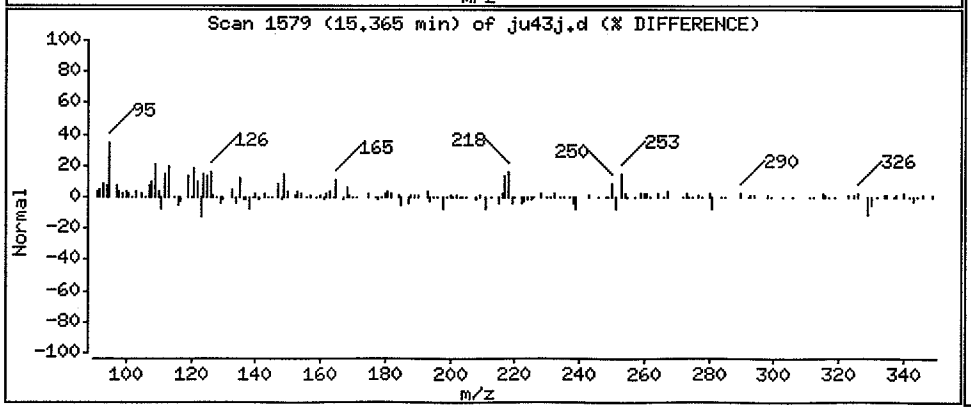












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

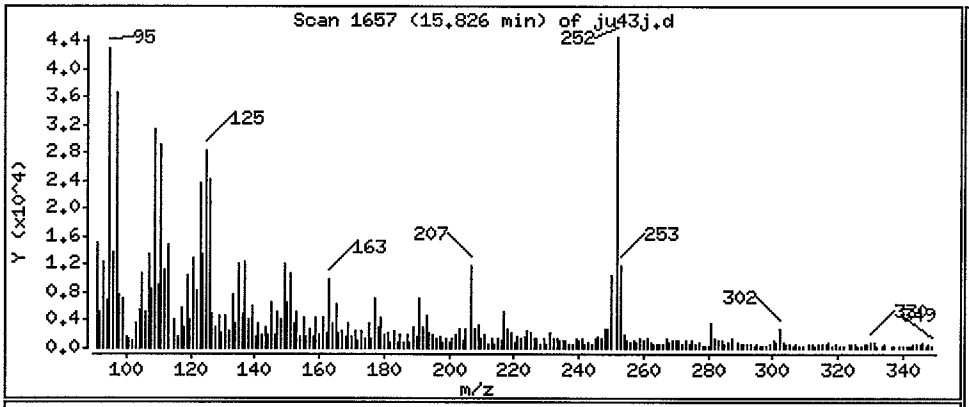
Operator: VTS

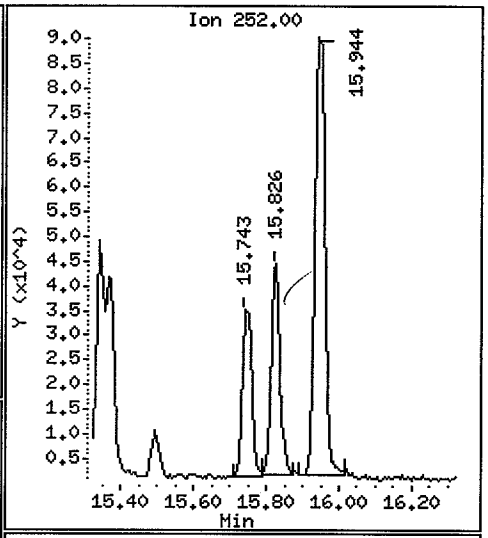
Column phase: ZB-5

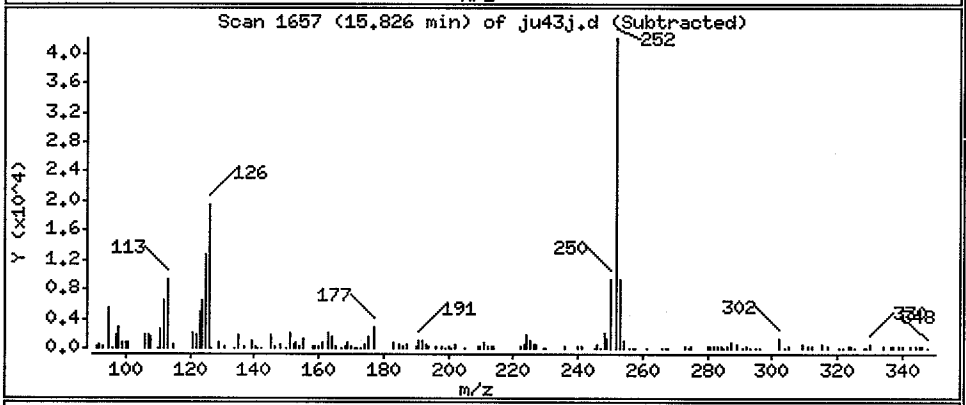
Column diameter: 0.25

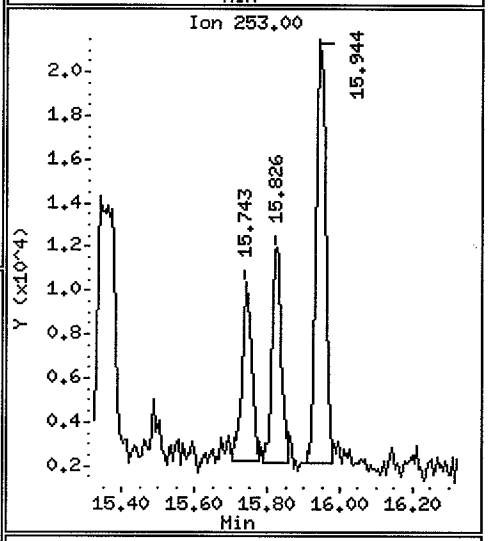
30 Benzo(a)pyrene

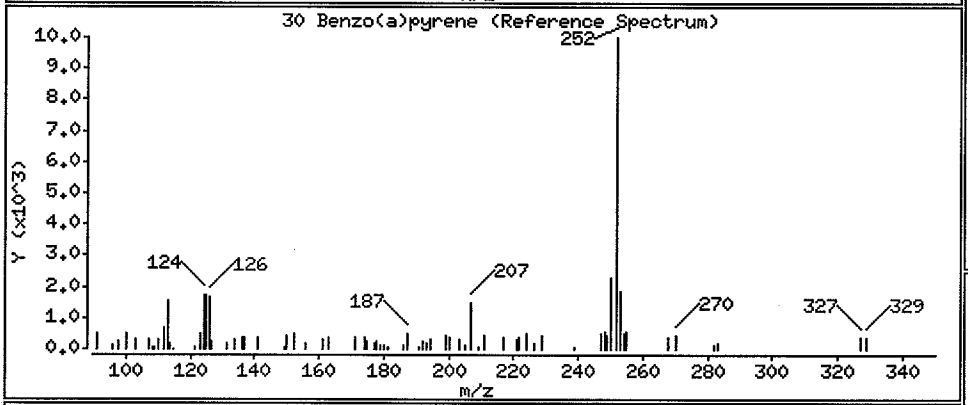
Concentration: 43.88 ug/kg

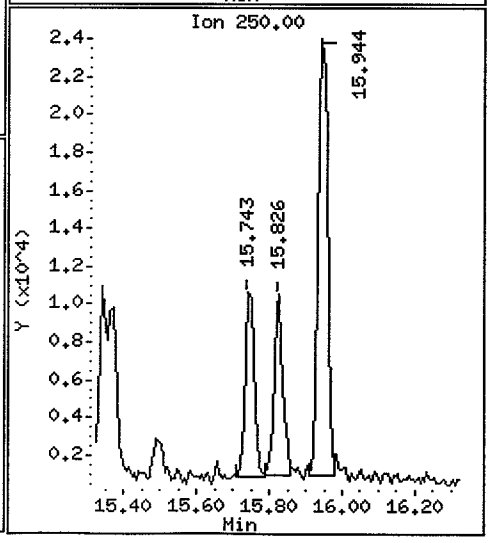


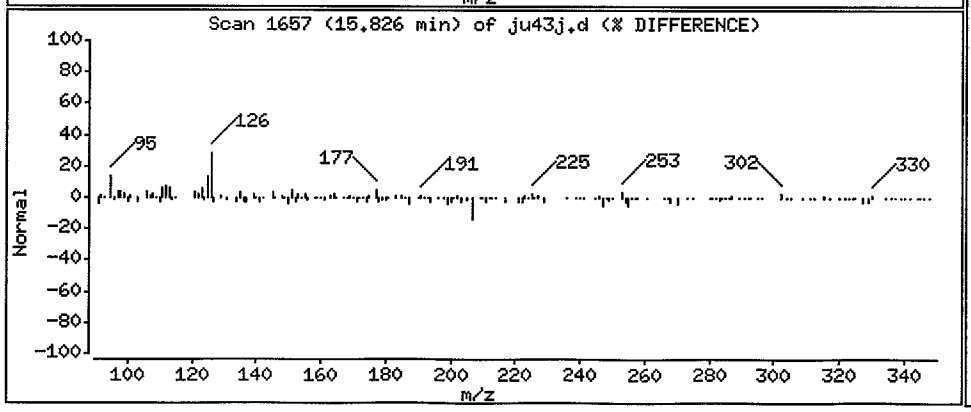












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

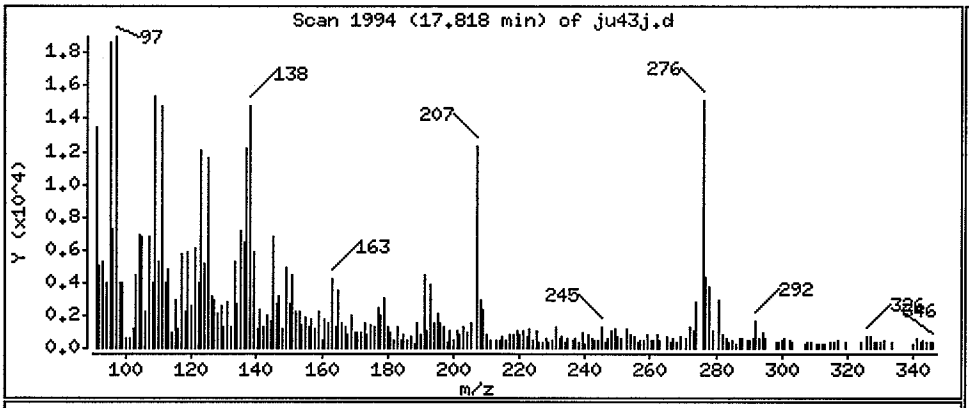
Operator: VTS

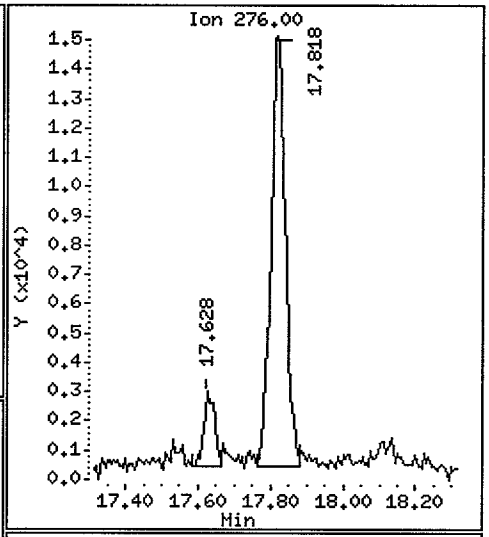
Column phase: ZB-5

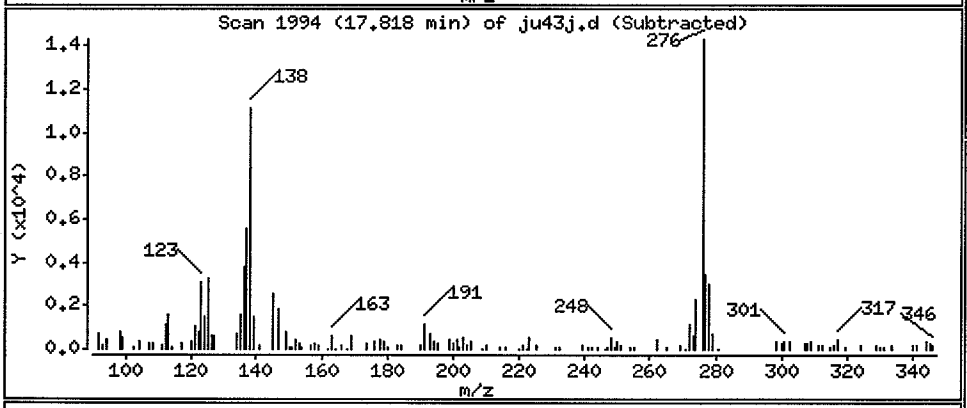
Column diameter: 0.25

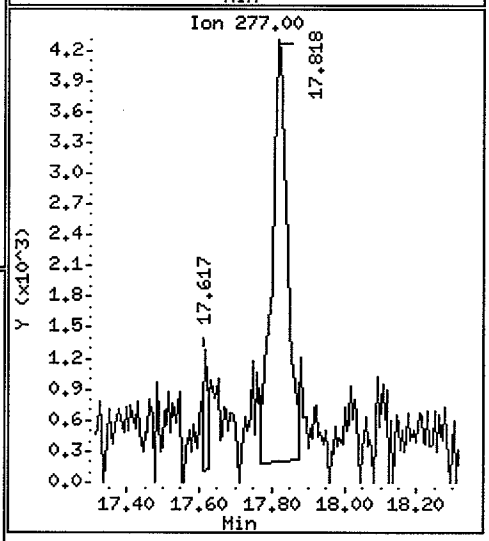
33 Indeno(1,2,3-cd)pyrene

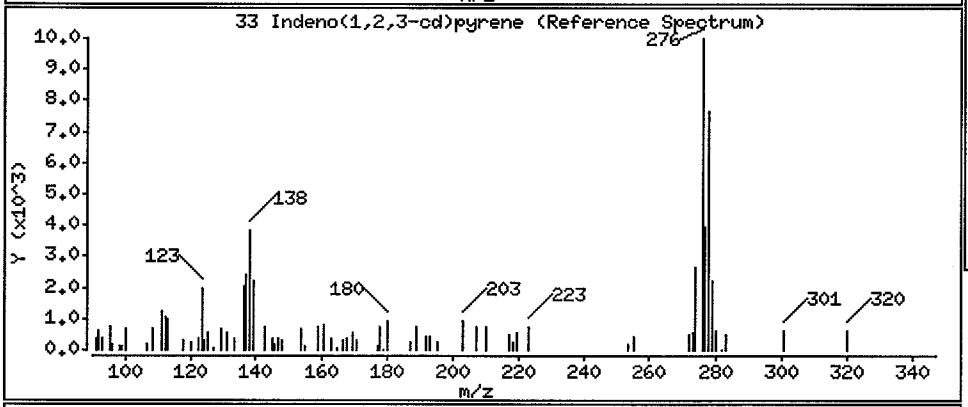
Concentration: 22.08 ug/kg

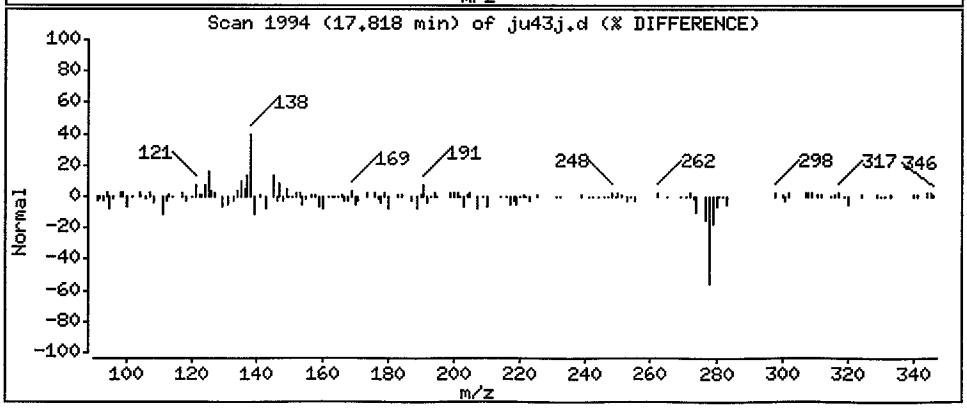












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

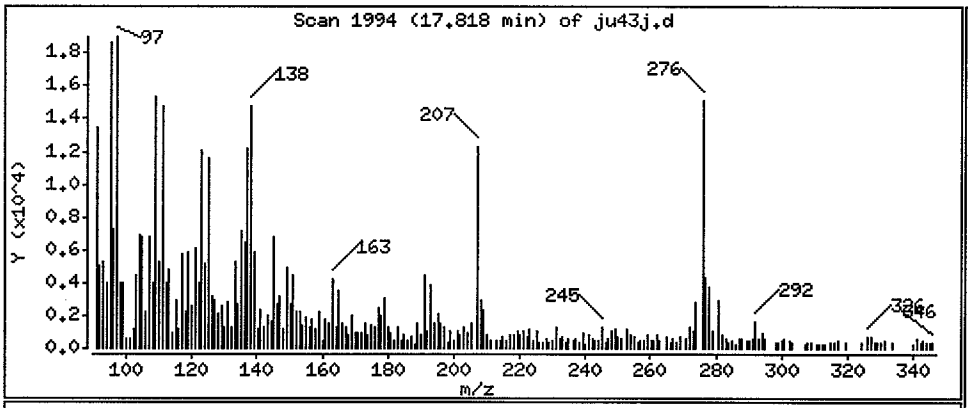
Operator: VTS

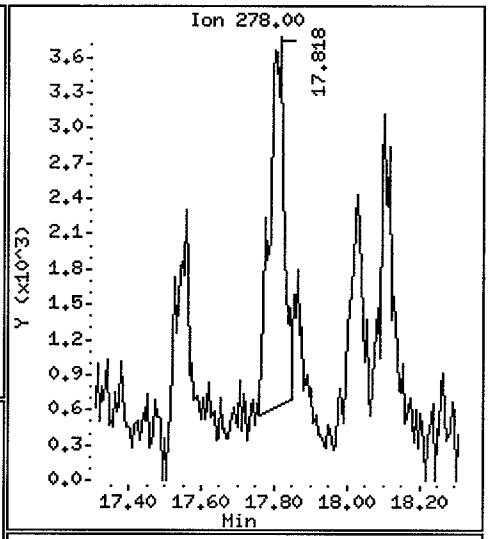
Column phase: ZB-5

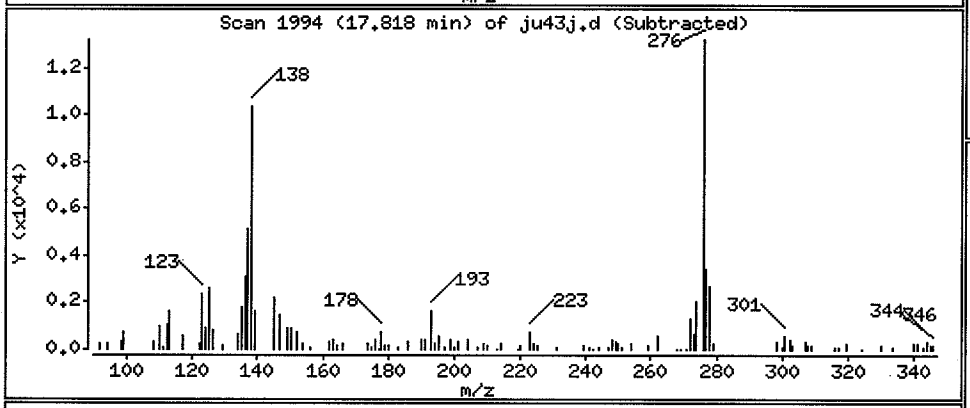
Column diameter: 0.25

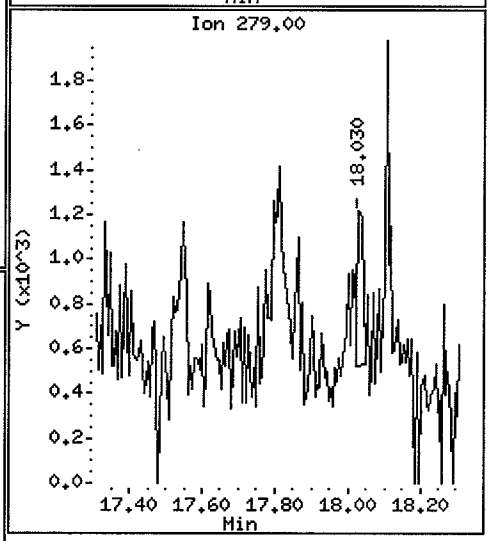
34 Dibenz(a,h)anthracene

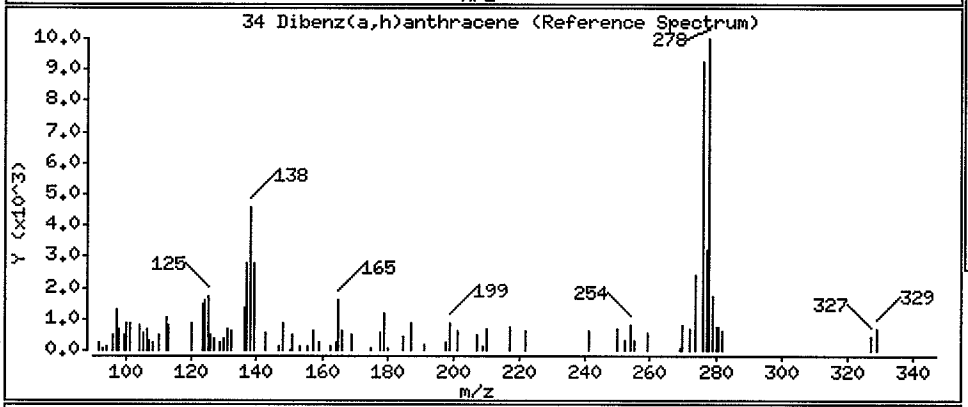
Concentration: 6.058 ug/kg

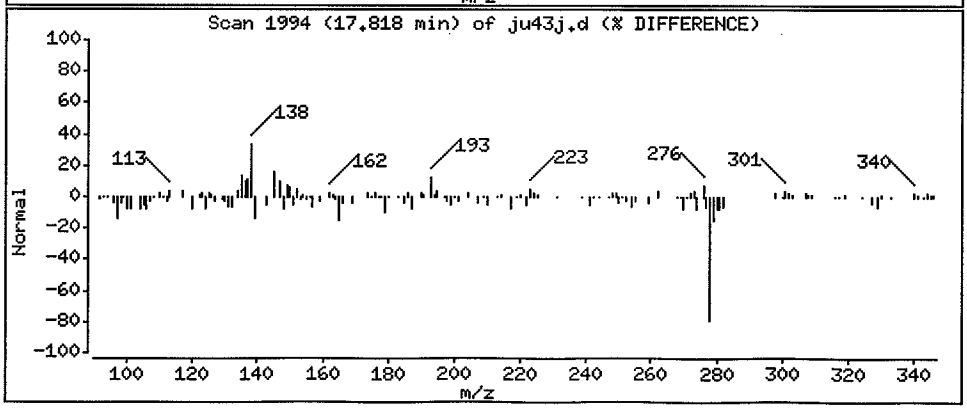












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

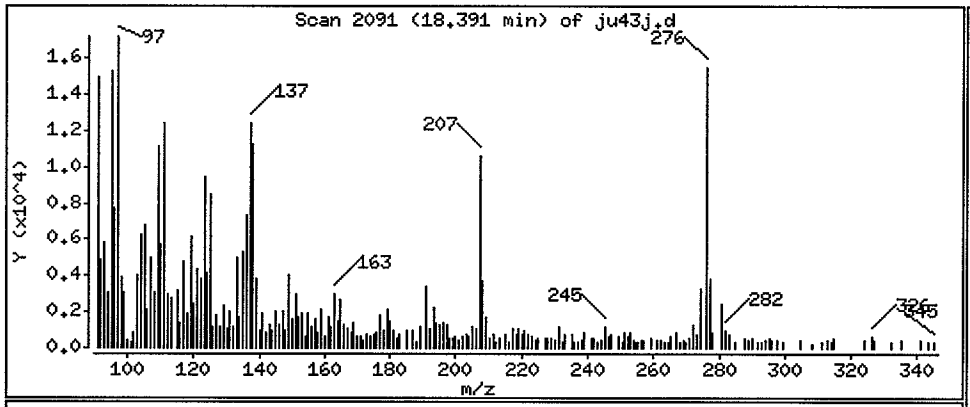
Operator: VTS

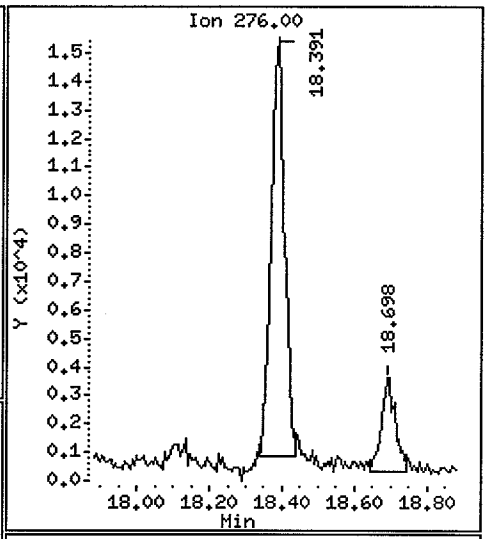
Column phase: ZB-5

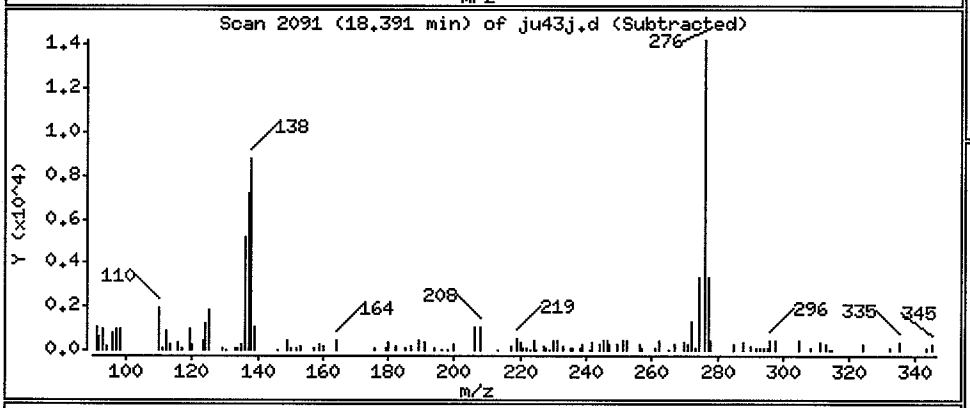
Column diameter: 0.25

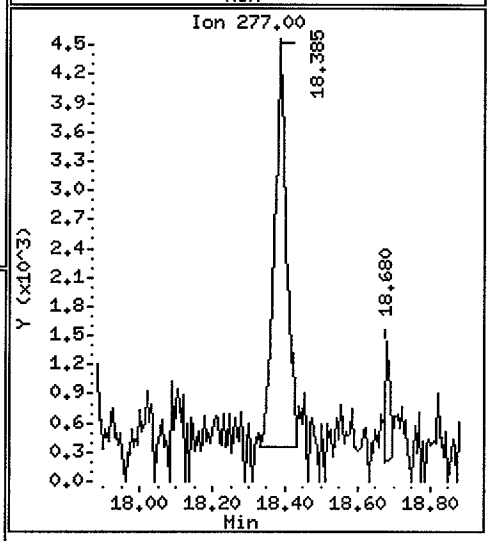
35 Benzo(g,h,i)perylene

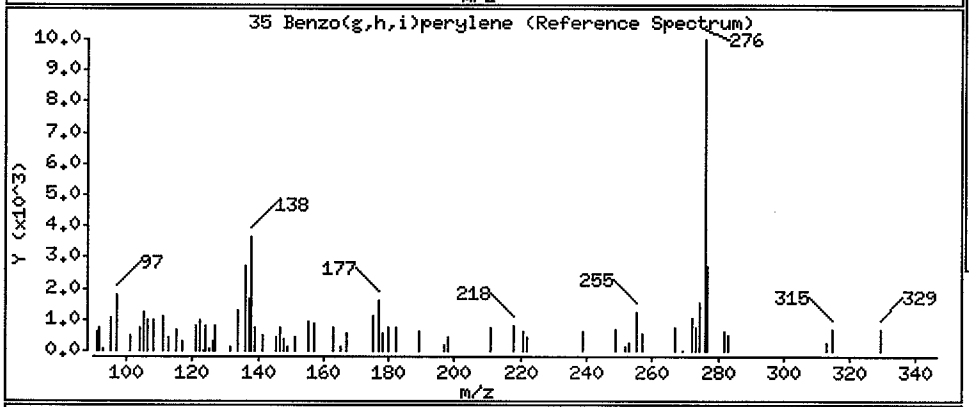
Concentration: 23.40 ug/kg

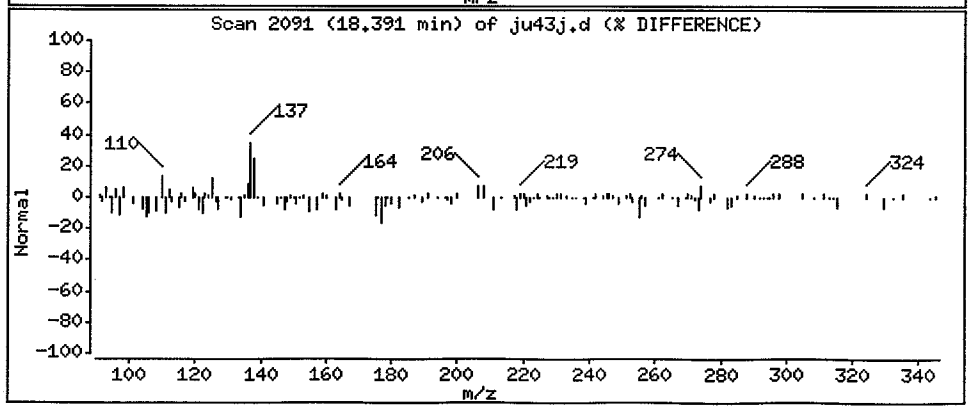












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

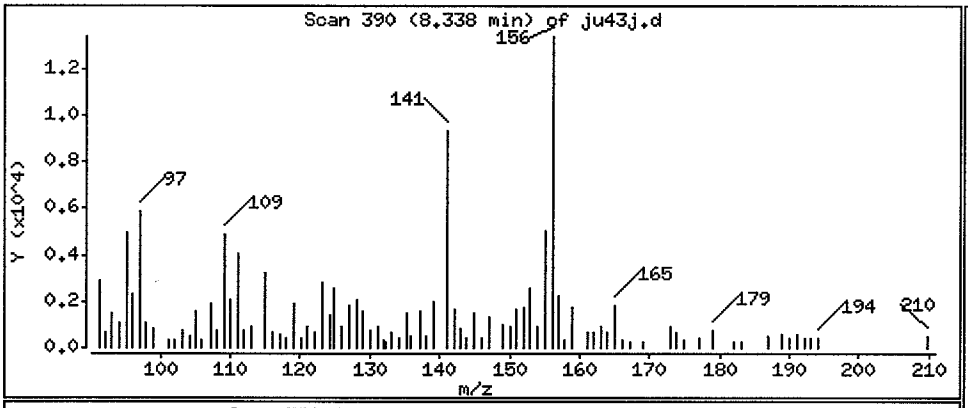
Operator: VTS

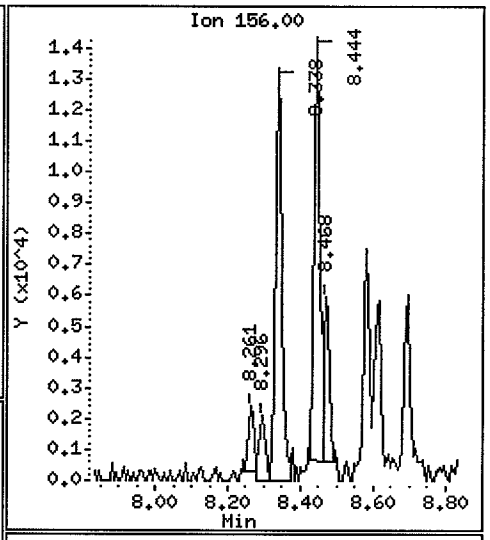
Column phase: ZB-5

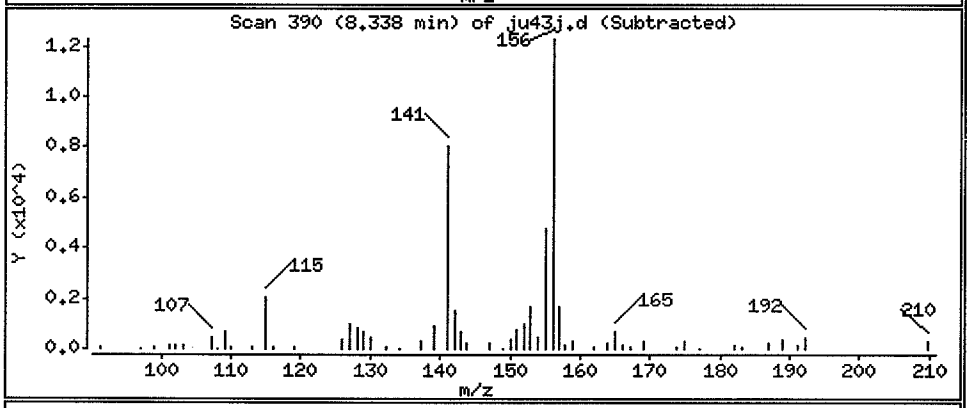
Column diameter: 0.25

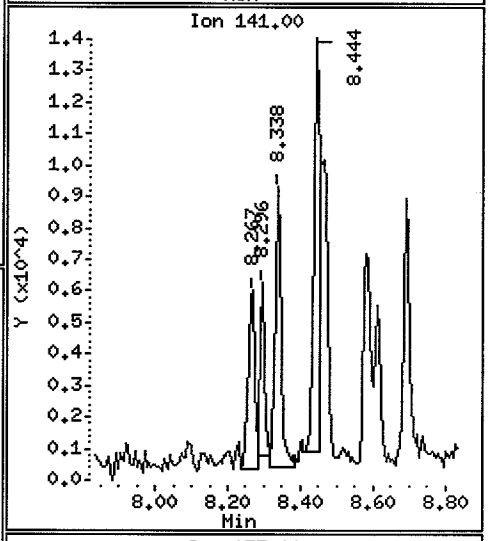
49 2,6-Dimethylnaphthalene

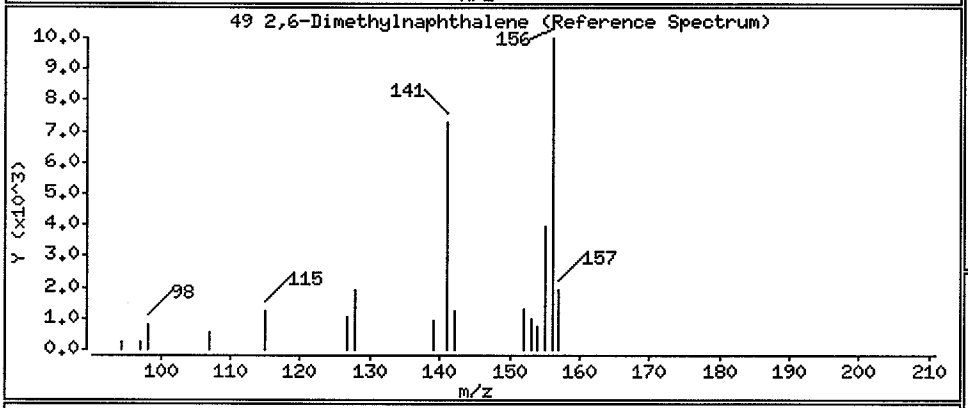
Concentration: 10.69 ug/kg

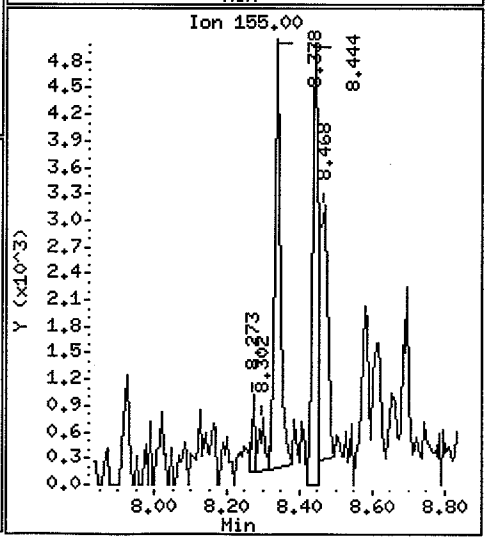


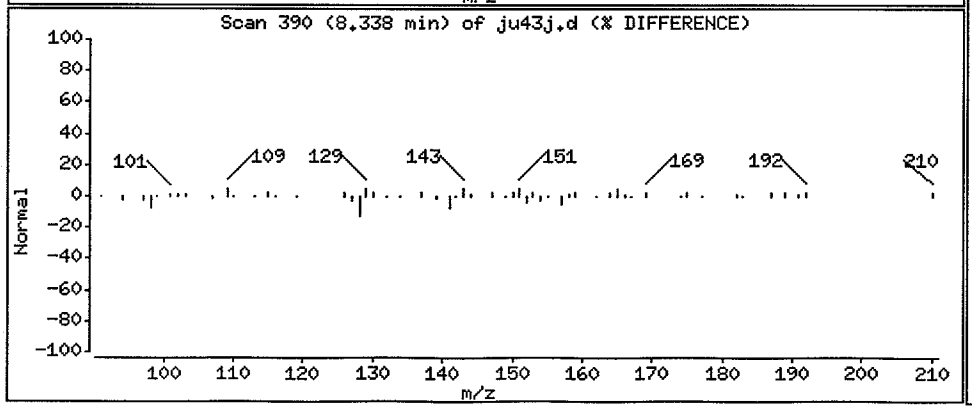












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

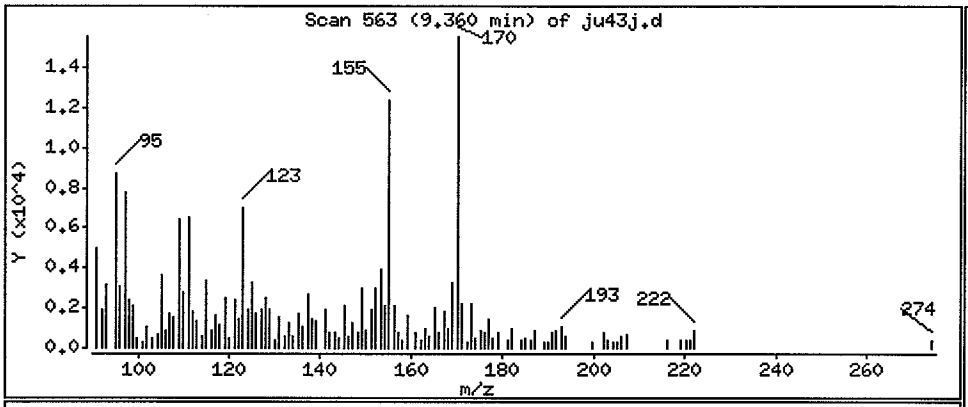
Operator: VTS

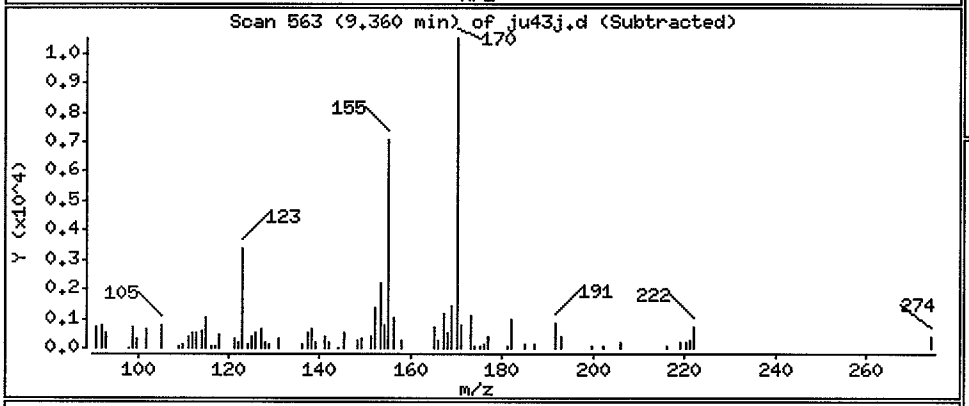
Column phase: ZB-5

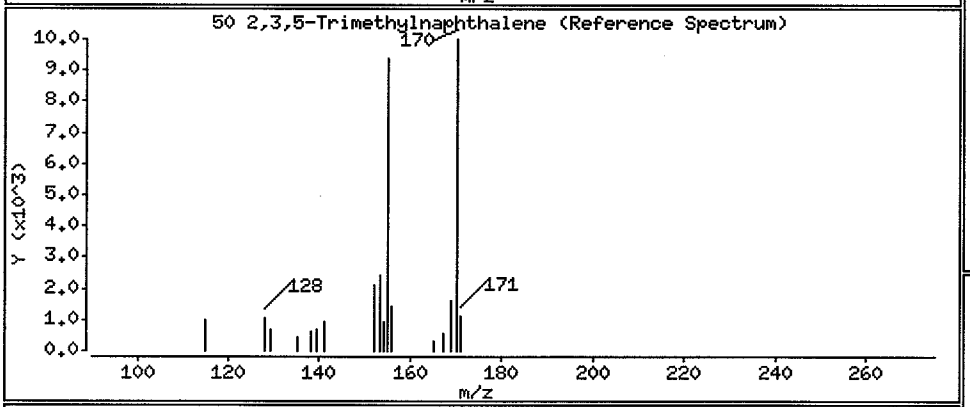
Column diameter: 0.25

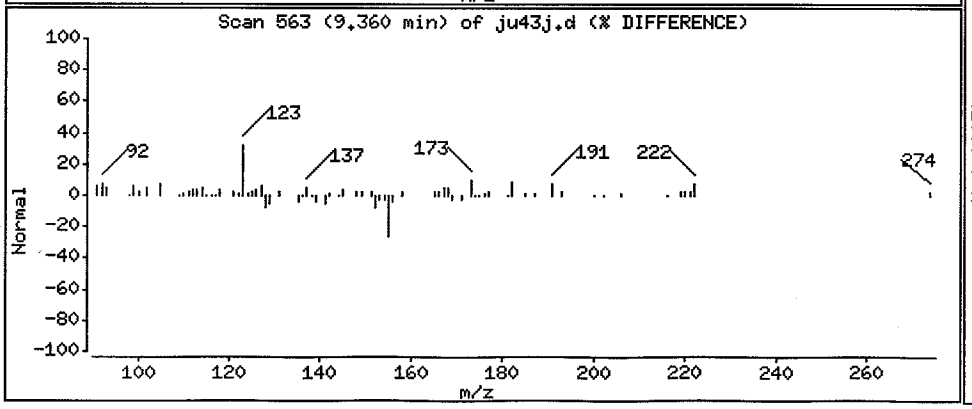
50 2,3,5-Trimethylnaphthalene

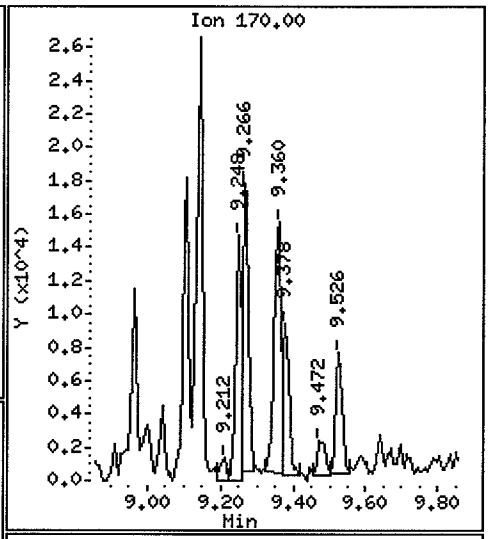
Concentration: 18.01 ug/kg

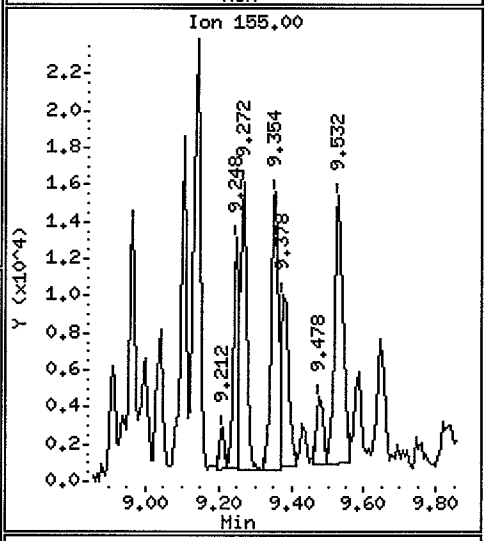


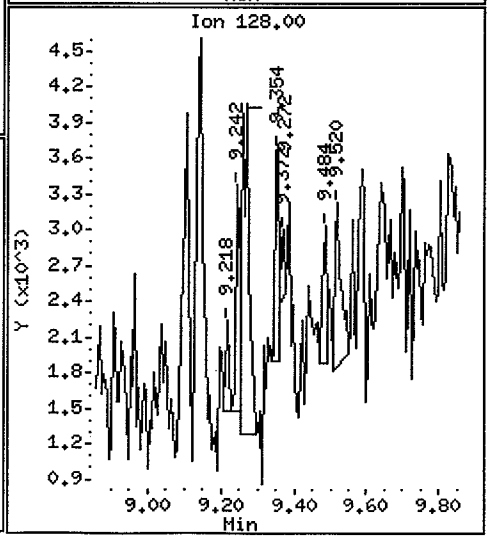












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

Operator: VTS

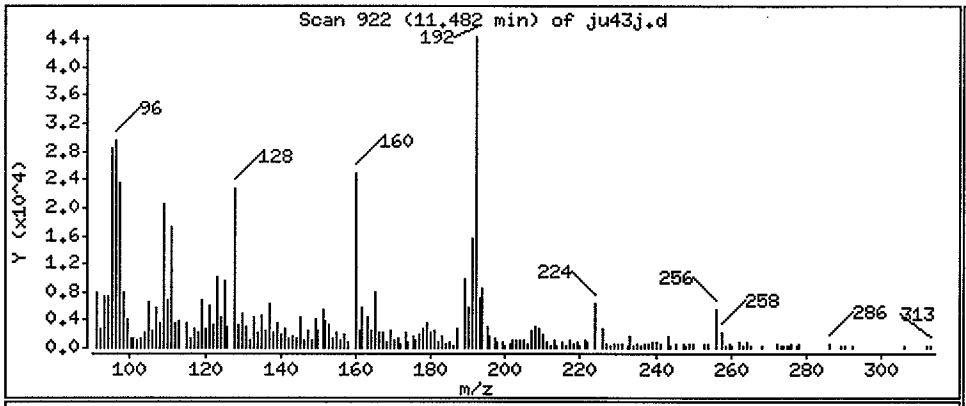
Column phase: ZB-5

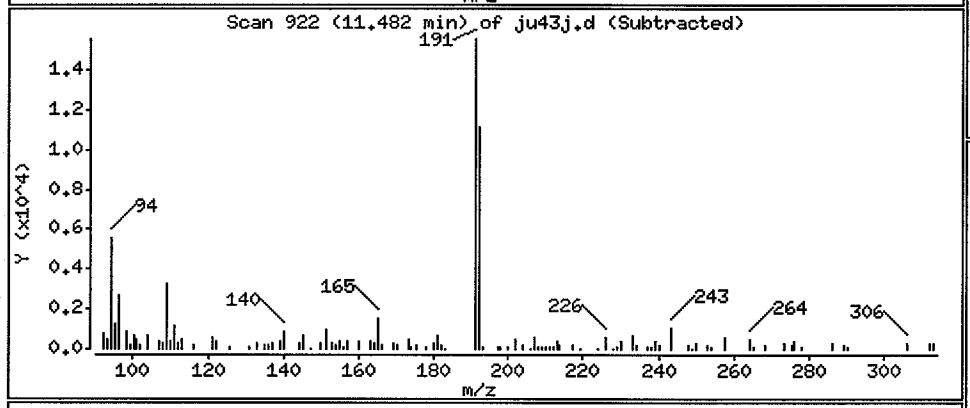
Column diameter: 0.25

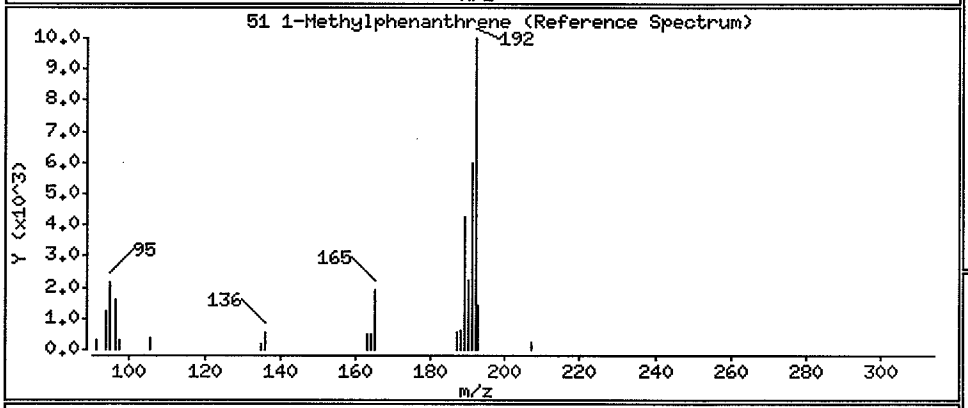
51 1-Methylphenanthrene

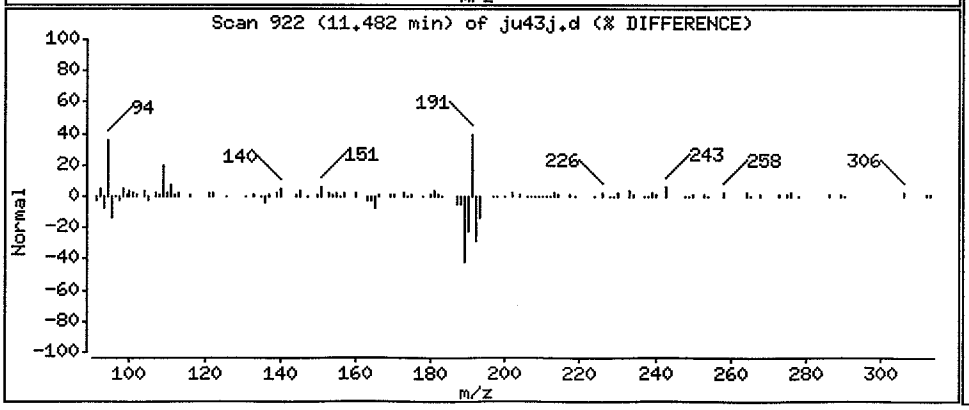
Concentration: 20.22 ug/kg

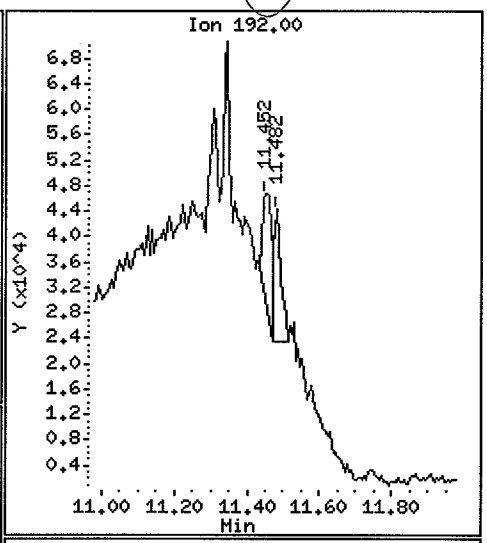
(B)

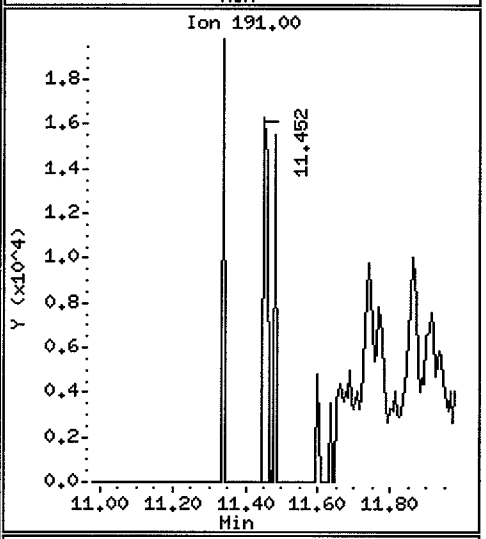


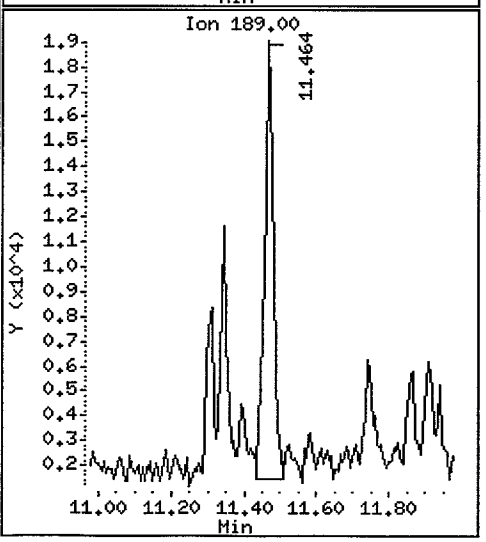












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

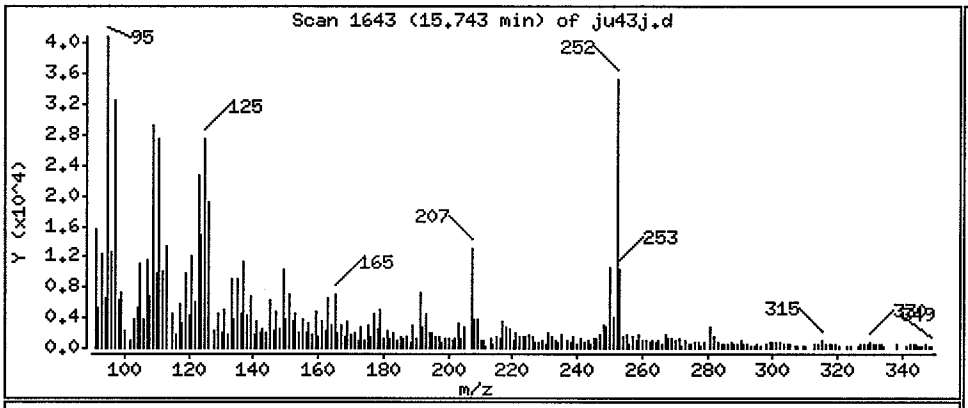
Operator: VTS

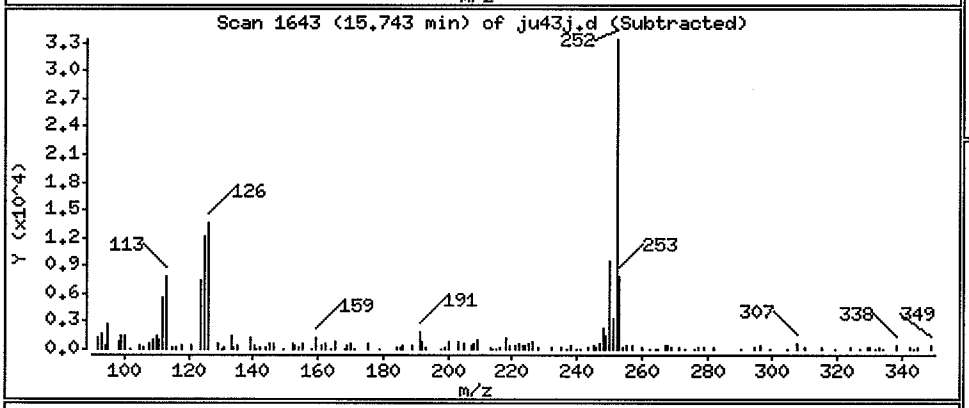
Column phase: ZB-5

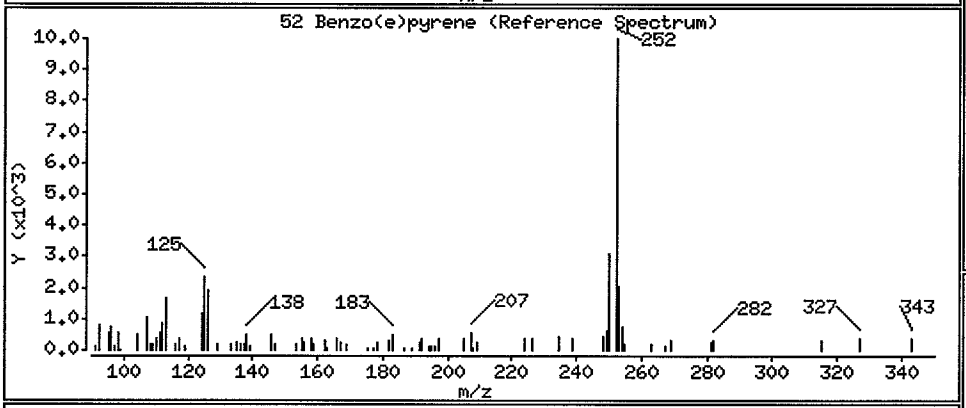
Column diameter: 0.25

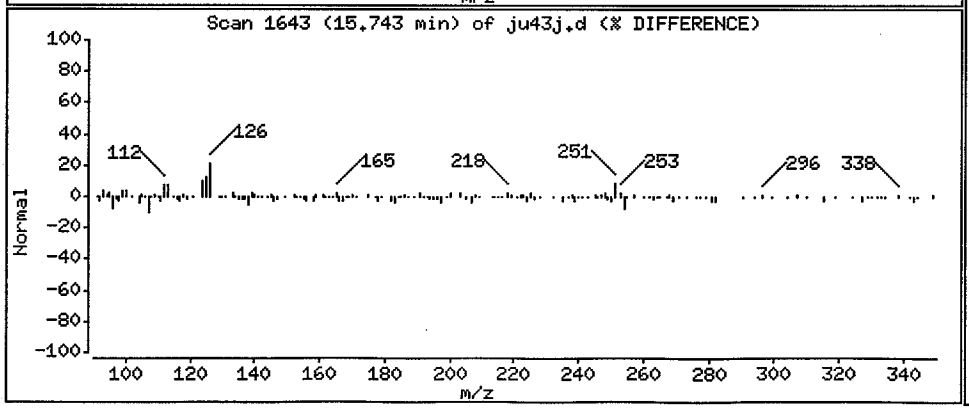
52 Benzo(e)pyrene

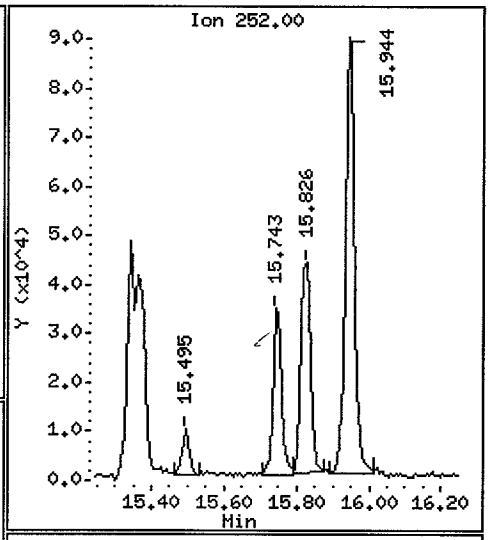
Concentration: 30.49 ug/kg

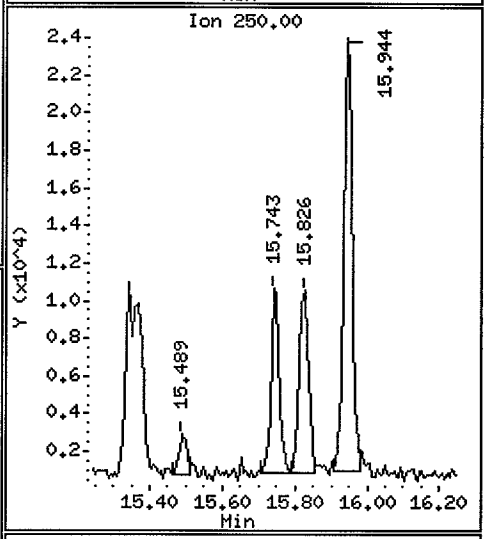


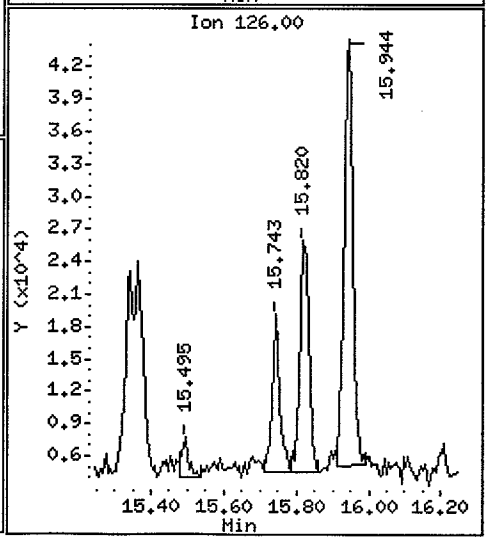












Data File: /chem3/nt1.i/20060912.b/ju43j.d

Date : 12-SEP-2006 17:10

Client ID: T4-S3-02-K

Instrument: nt1.i

Sample Info: JU43J

Volume Injected (uL): 1.0

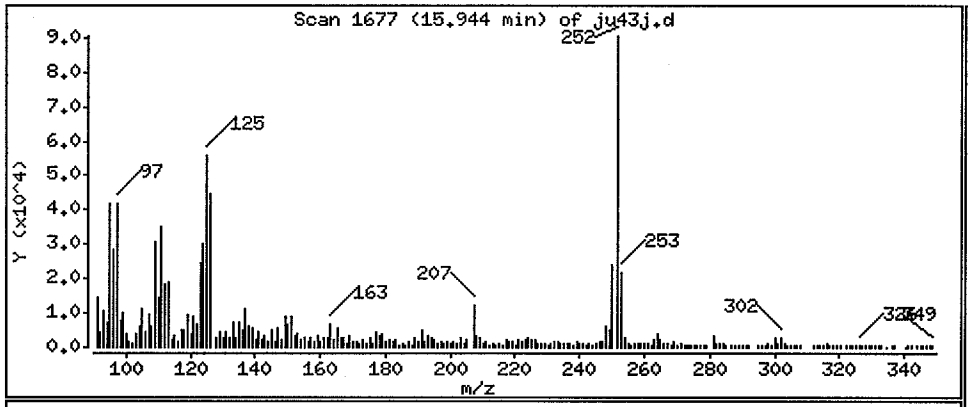
Operator: VTS

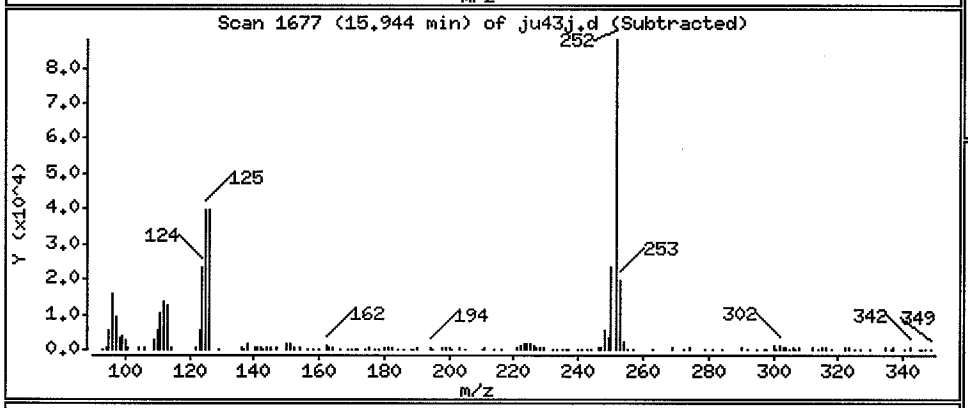
Column phase: ZB-5

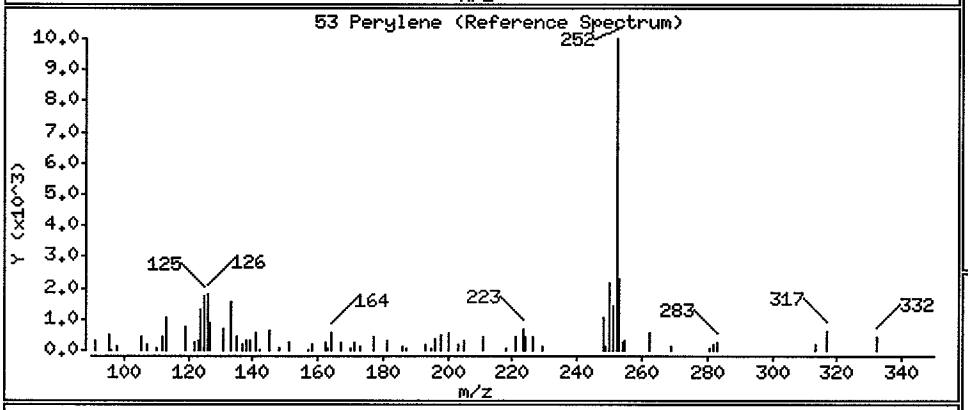
Column diameter: 0.25

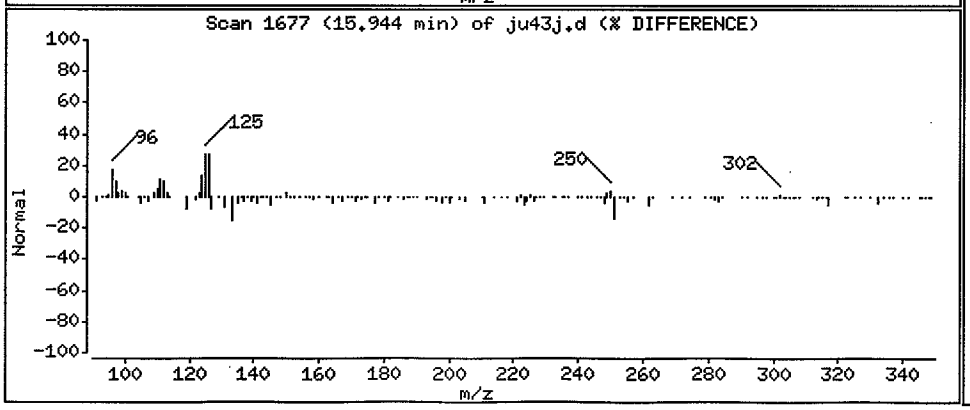
53 Perylene

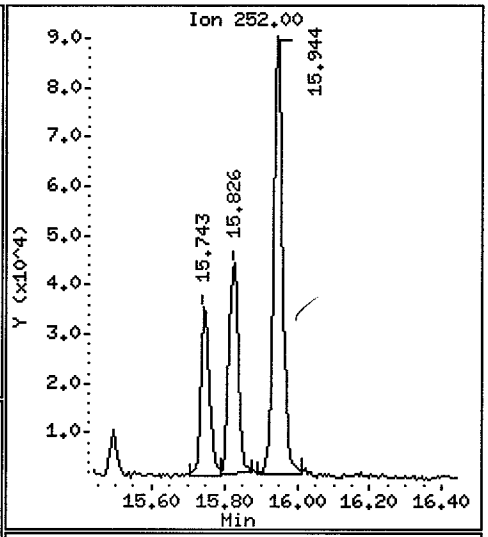
Concentration: 89.98 ug/kg

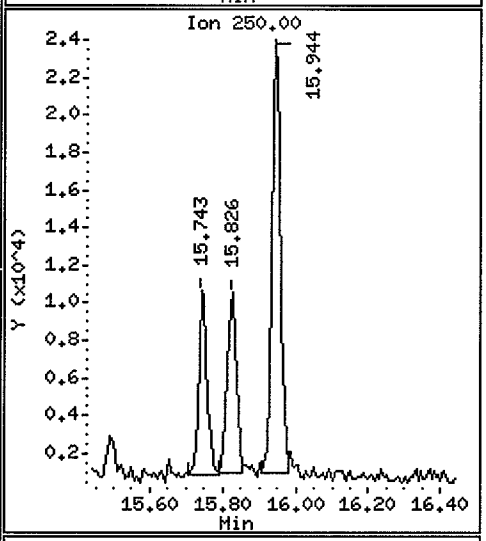


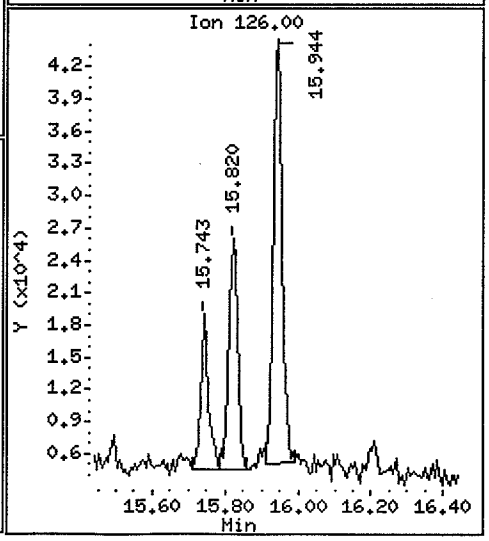












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-08-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43K
LIMS ID: 06-15855
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 18:24
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.7%
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**6.4**
91-57-6	**2-Methylnaphthalene**	**4.9**	**3.9 J**
90-12-0	**1-Methylnaphthalene**	**4.9**	**2.0 J**
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	**Acenaphthene**	**4.9**	**29**
86-73-7	**Fluorene**	**4.9**	**12**
85-01-8	**Phenanthrene**	**4.9**	**110**
120-12-7	**Anthracene**	**4.9**	**26**
206-44-0	**Fluoranthene**	**4.9**	**250**
129-00-0	**Pyrene**	**4.9**	**220**
56-55-3	**Benzo(a)anthracene**	**4.9**	**160**
218-01-9	**Chrysene**	**4.9**	**190**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**190**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**190**
50-32-8	**Benzo(a)pyrene**	**4.9**	**220**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**110**
53-70-3	**Dibenz(a,h)anthracene**	**4.9**	**39**
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**110**
198-55-0	**Perylene**	**4.9**	**69**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	< 4.9 U
832-69-9	**1-Methylphenanthrene**	**4.9**	**7.4 M**
192-97-2	**Benzo(e)pyrene**	**4.9**	**130**
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	86.0%
d14-Dibenzo(a,h)anthracen	85.7%

0936

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43k.d
Lab Smp Id: JU43K Client Smp ID: T4-S3-08-D
Inj Date : 12-SEP-2006 18:24
Operator : VTS Inst ID: nt1.i
Smp Info : JU43K
Misc Info : 06-15855
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.50000	Weight of sample extracted (g)
M	24.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.813	6.808	(1.000)	358813	2.00000		
	2 Naphthalene	128	6.831	6.832	(1.003)	22317	0.12946	6.368	
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	229438	2.57872	126.8	J
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	6970	0.07607	3.742	J
	7 Acenaphthylene	152	Compound Not Detected.						
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	171570	2.00000		
	9 Acenaphthene	153	8.905	8.906	(1.004)	50964	0.59864	29.44	
	10 Dibenzofuran	168	9.100	9.095	(1.026)	11961	~~0.09886~~	4.863	NR
	11 Fluorene	166	9.520	9.521	(1.073)	23376	0.25308	12.45	
*	15 Phenanthrene-d10	188	10.678	10.679	(1.000)	219923	2.00000		
	16 Phenanthrene	178	10.708	10.709	(1.003)	265338	2.22575	109.5	
	17 Anthracene	178	10.767	10.762	(1.008)	62152	0.51693	25.43	
	19 Fluoranthene	202	12.203	12.198	(1.143)	522974	5.13941	252.8	
	20 Pyrene	202	12.487	12.488	(0.893)	528693	4.46380	219.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	22 Benzo(a)anthracene	228	13.964	13.965	(0.998)	323512	3.20647	157.7
*	23 Chrysene-d12	240	13.988	13.989	(1.000)	168286	2.00000	
	24 Chrysene	228	14.017	14.018	(1.002)	360078	3.79790	186.8
	28 Benzo(b)fluoranthene	252	15.341	15.336	(0.965)	376045	3.88124	190.9
	29 Benzo(k)fluoranthene	252	15.365	15.366	(0.966)	386045	3.81509	187.6
	30 Benzo(a)pyrene	252	15.820	15.821	(0.995)	395173	4.52206	222.4
*	31 Perylene-d12	264	15.903	15.898	(1.000)	171095	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.818	17.813	(1.120)	215536	2.29749	113.0
$	32 Dibenz(a,h)anthrancene-d14	292	17.735	17.736	(1.115)	144211	2.57210	126.5
	34 Dibenz(a,h)anthracene	278	17.794	17.807	(1.119)	60978	0.80197	39.45
	35 Benzo(g,h,i)perylene	276	18.379	18.380	(1.156)	184368	2.22374	109.4
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
	50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
	51 1-Methylphenanthrene	192	11.482	11.477	(0.821)	11976	0.15077	7.416
	52 Benzo(e)pyrene	252	15.743	15.744	(0.990)	264914	2.72114	133.8
	53 Perylene	252	15.944	15.939	(1.003)	126992	1.39795	68.76

VTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43k.d
Lab Smp Id: JU43K
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15855

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-08-D
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	358813	5.05
8 Acenaphthene-d10	169375	84688	338750	171570	1.30
15 Phenanthrene-d10	232185	116092	464370	219923	-5.28
23 Chrysene-d12	179856	89928	359712	168286	-6.43
31 Perylene-d12	175373	87686	350746	171095	-2.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.07
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	-0.01
23 Chrysene-d12	13.99	13.49	14.49	13.99	-0.01
31 Perylene-d12	15.90	15.40	16.40	15.90	0.03

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43K
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15855

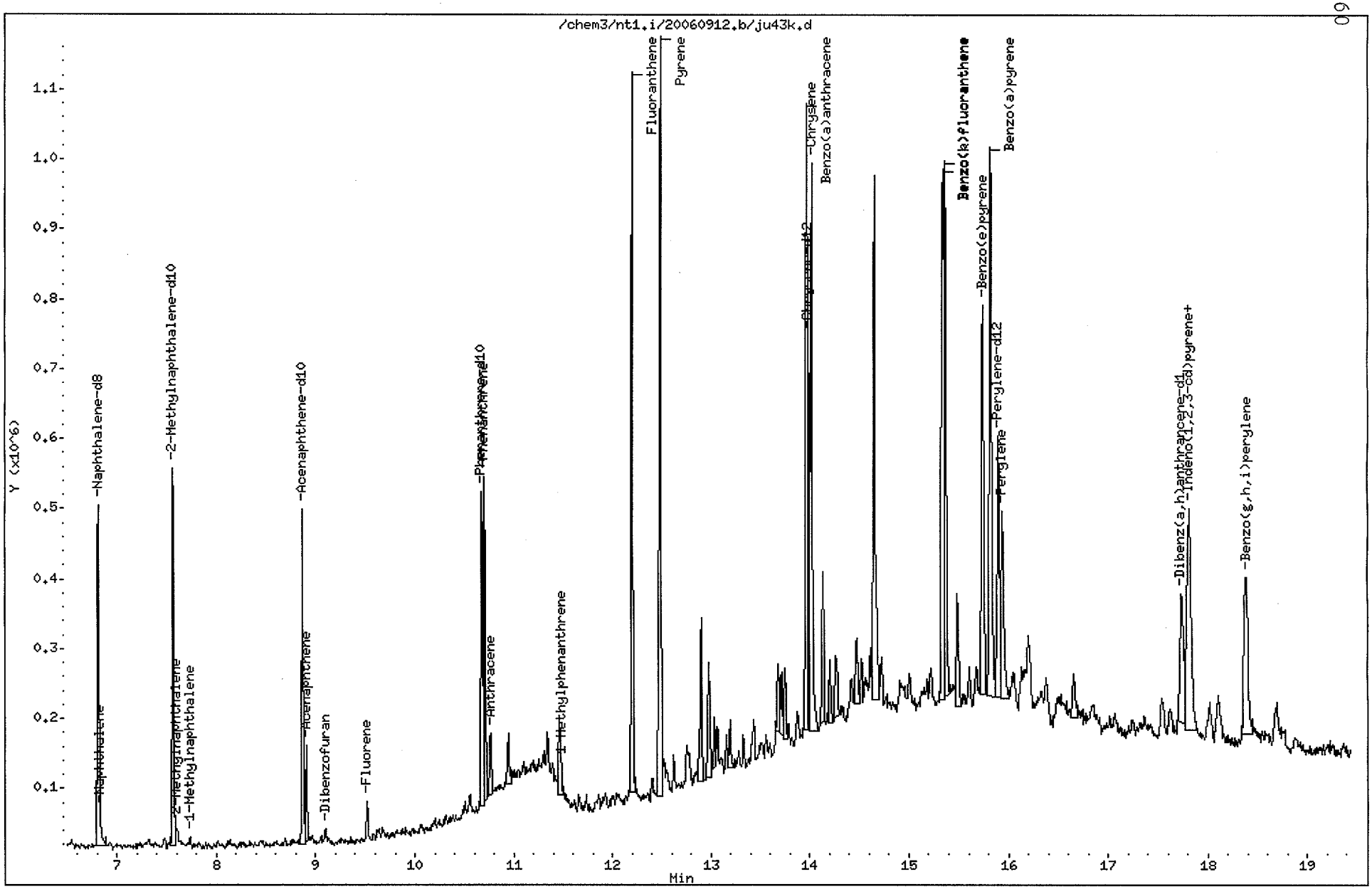
Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-08-D
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.6	126.8	85.96	32-97
$ 32 Dibenz(a,h)anthran	147.6	126.5	85.74	21-105

Data File: /chem3/nt1.i/20060912.b/ju43k.d
Date : 12-SEP-2006 18:24
Client ID: T4-S3-08-D
Sample Info: JU43K
Volume Injected (uL): 1.0
Column phase: ZB-5

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

0941



Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

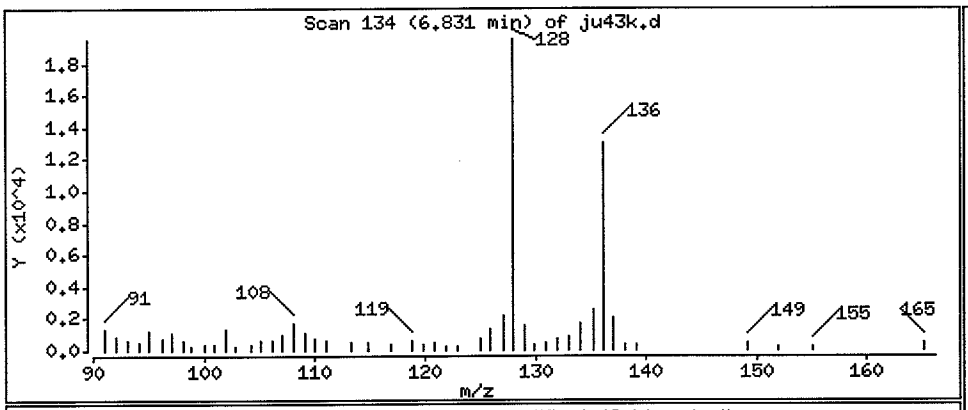
Operator: VTS

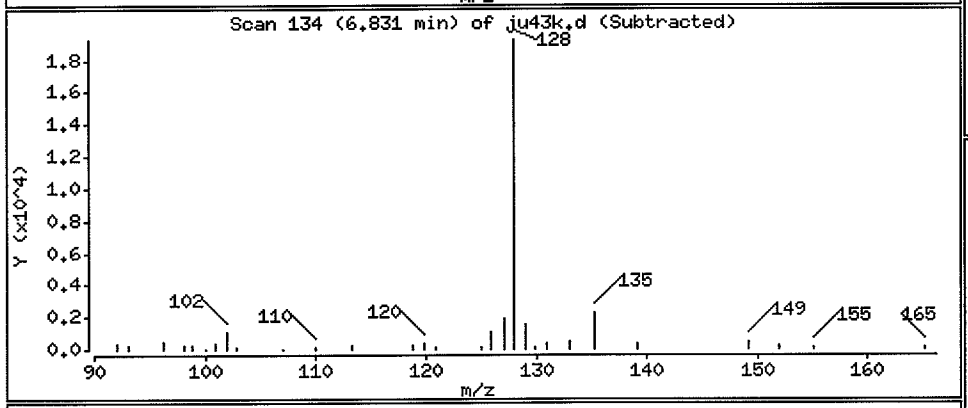
Column phase: ZB-5

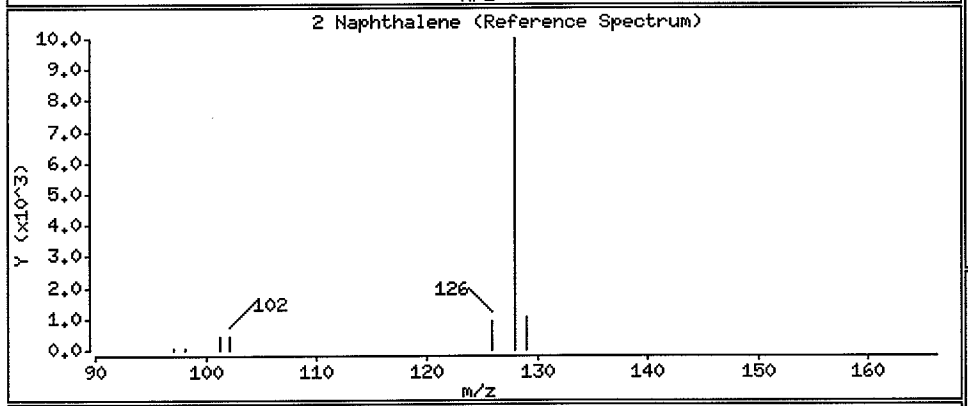
Column diameter: 0.25

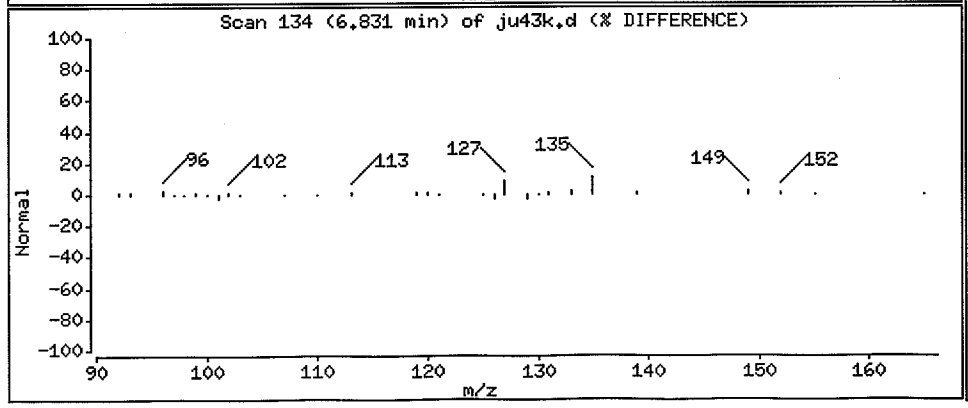
2 Naphthalene

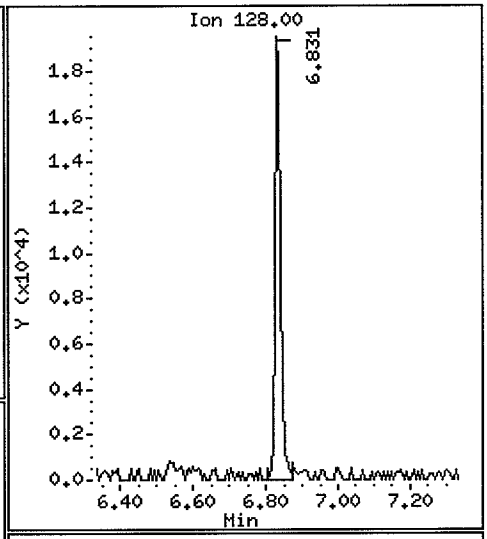
Concentration: 6.368 ug/kg

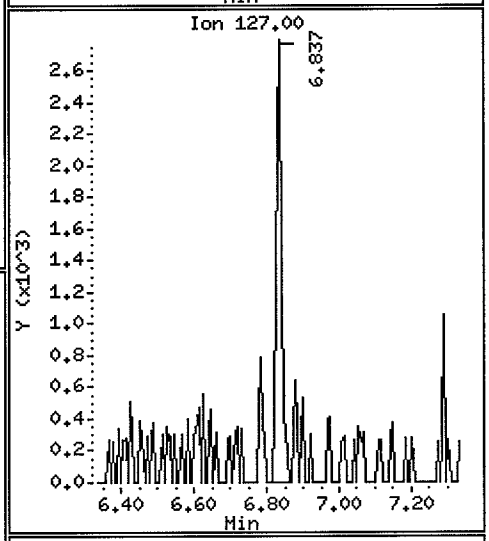


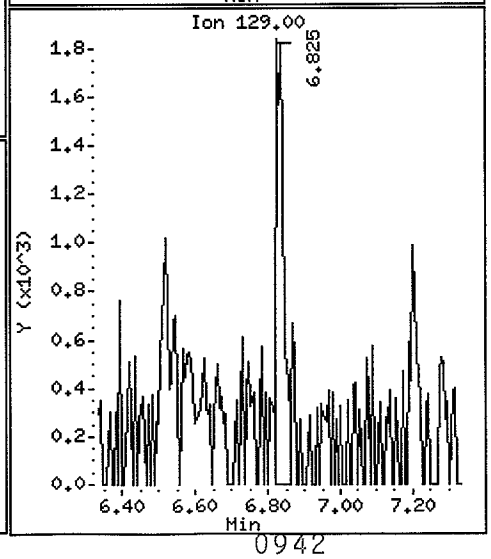












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

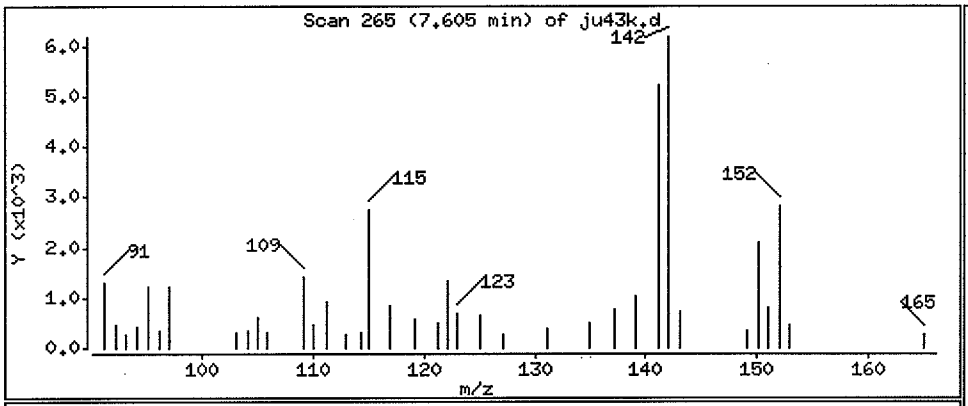
Operator: VTS

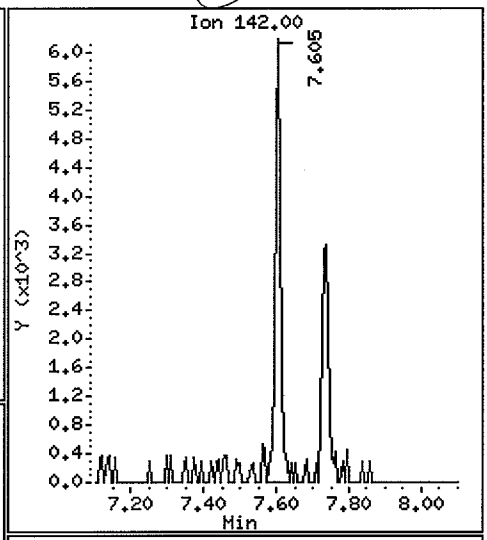
Column phase: ZB-5

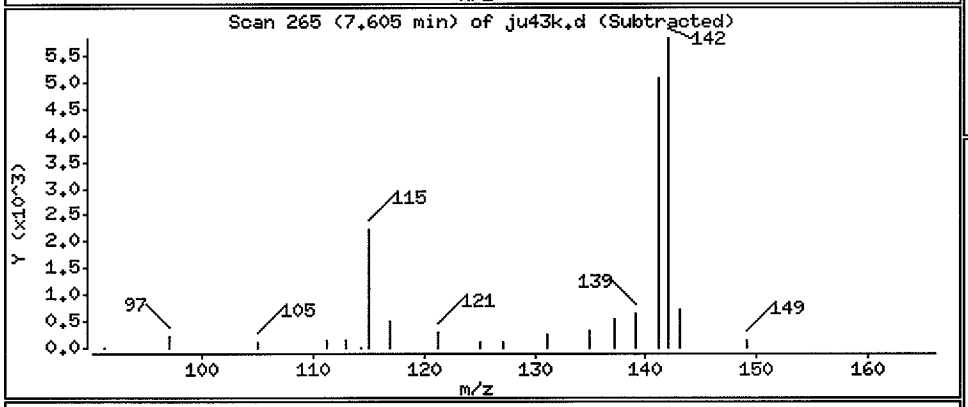
Column diameter: 0.25

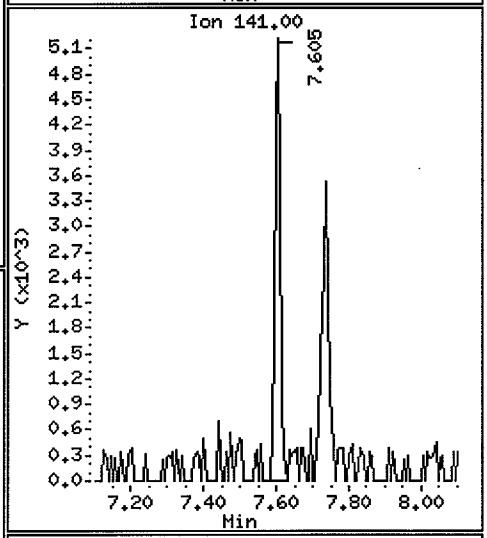
4 2-Methylnaphthalene

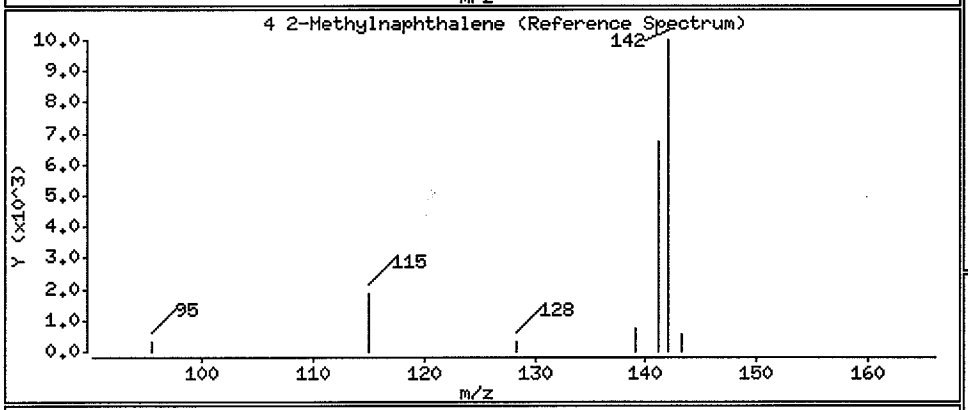
Concentration: 3.742 ug/kg

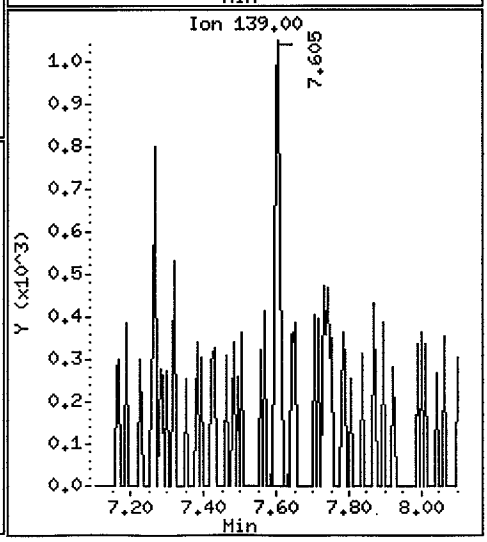


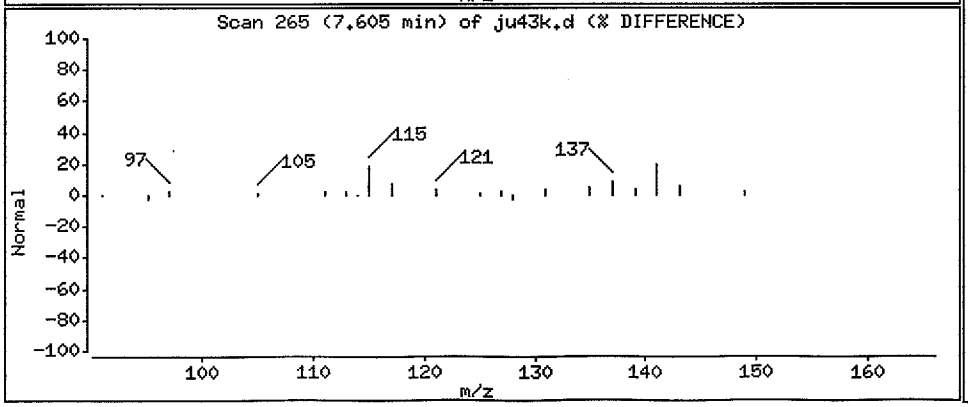












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

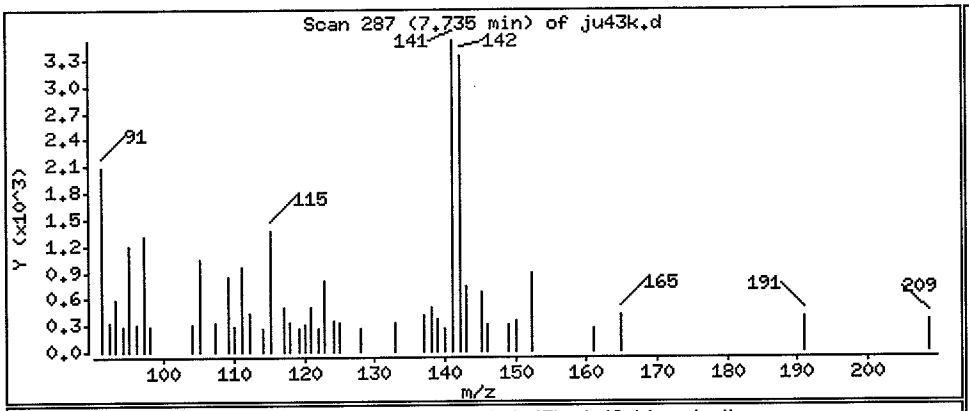
Operator: VTS

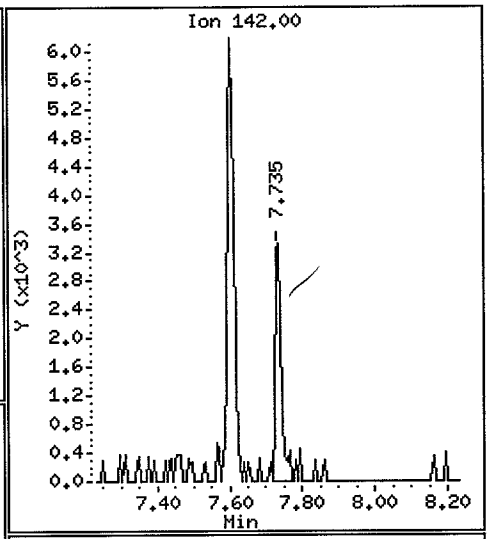
Column phase: ZB-5

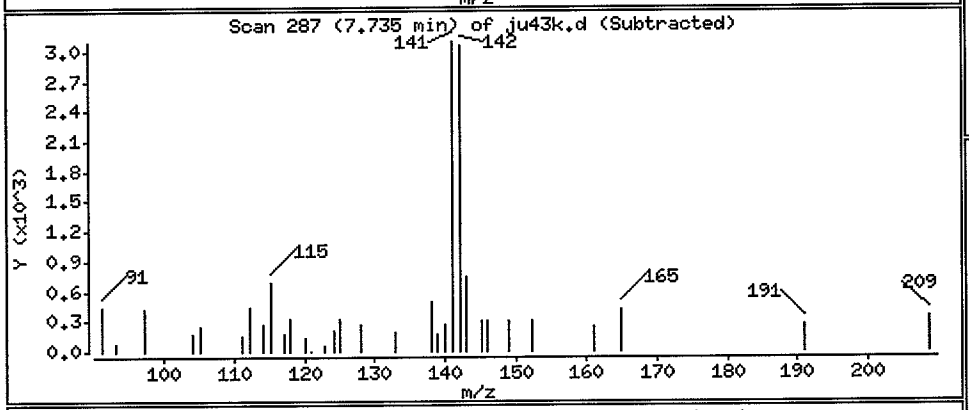
Column diameter: 0.25

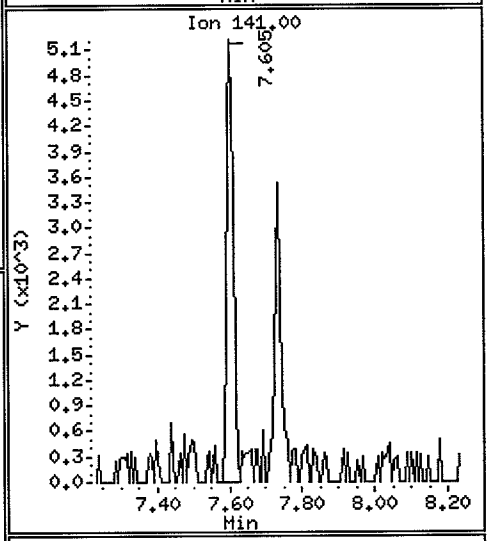
5 1-Methylnaphthalene

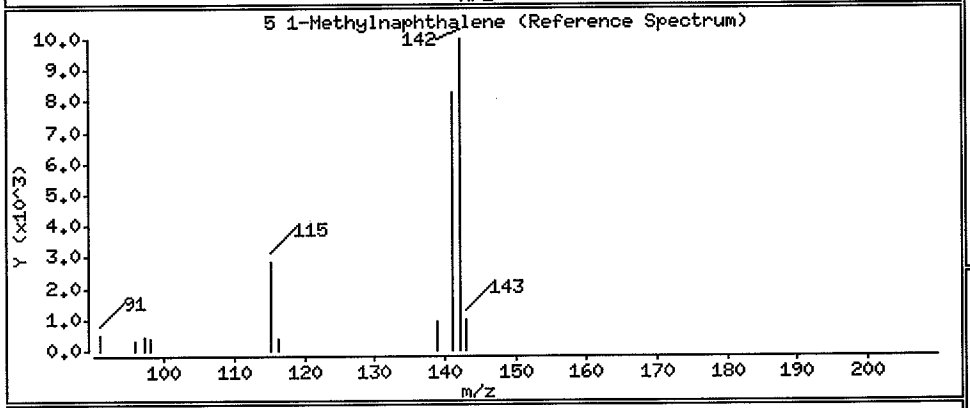
Concentration: 2.050 ug/kg

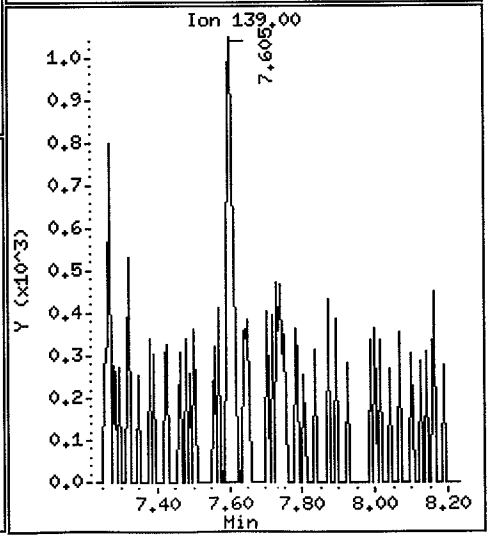


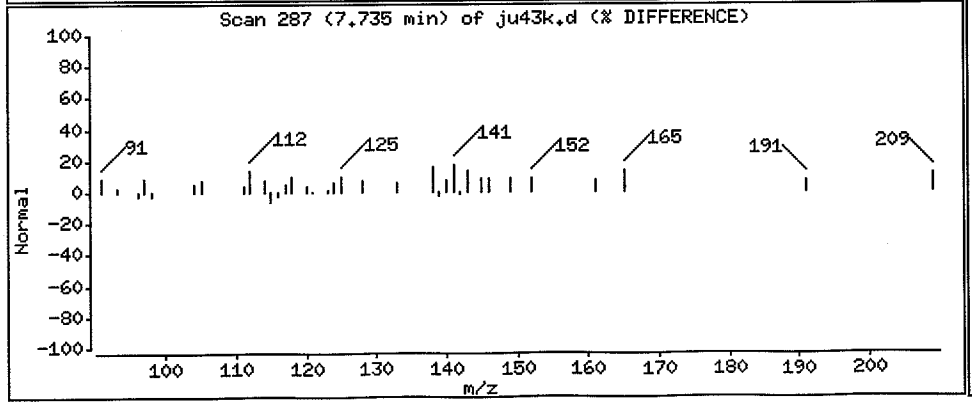












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

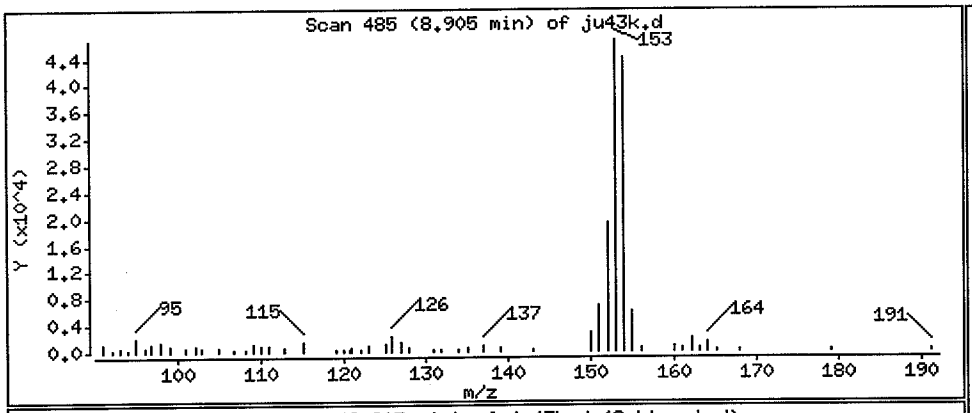
Operator: VTS

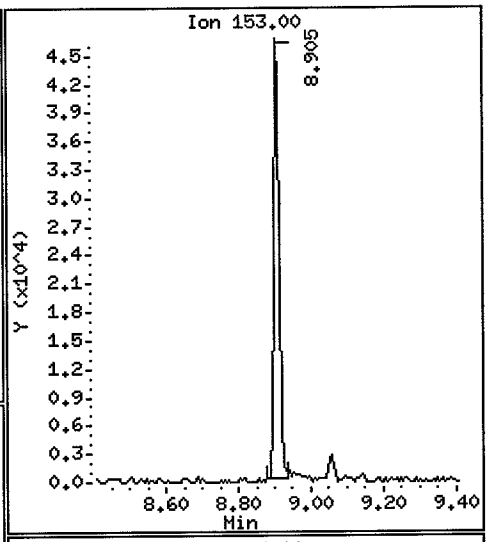
Column phase: ZB-5

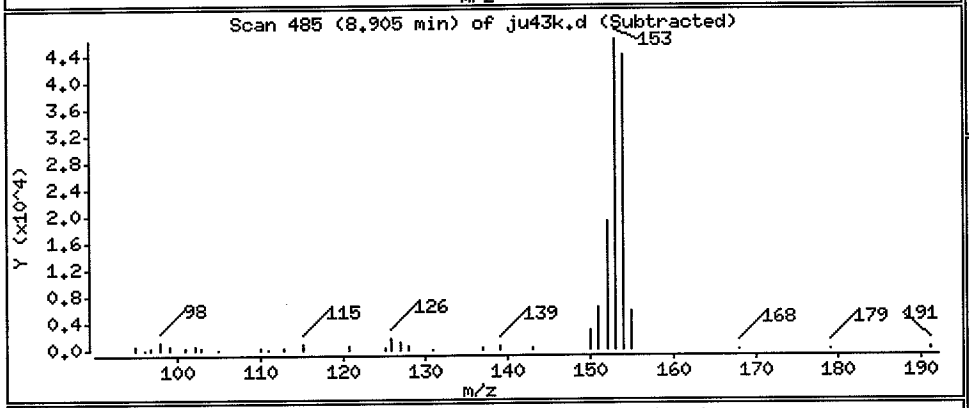
Column diameter: 0.25

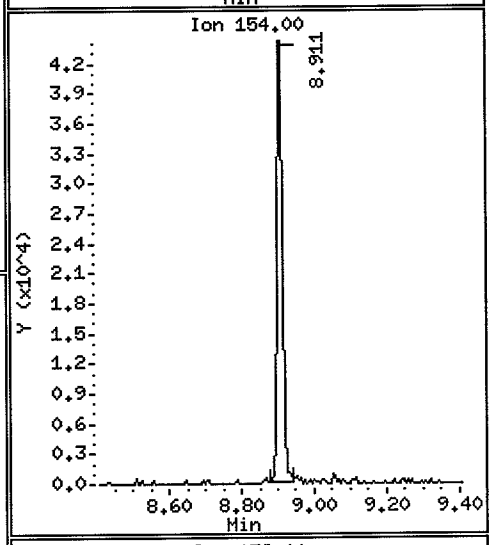
9 Acenaphthene

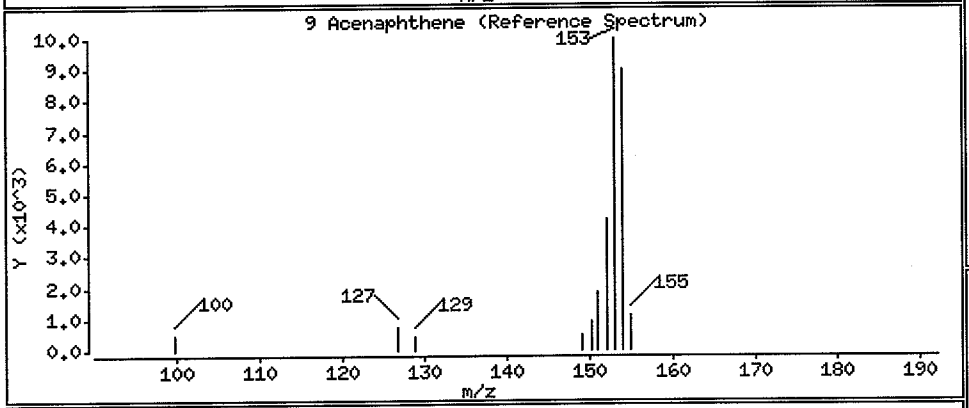
Concentration: 29.44 ug/kg

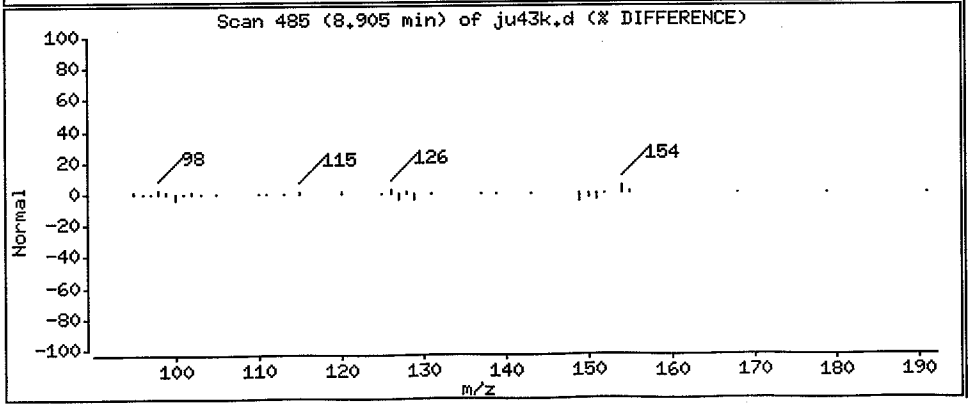


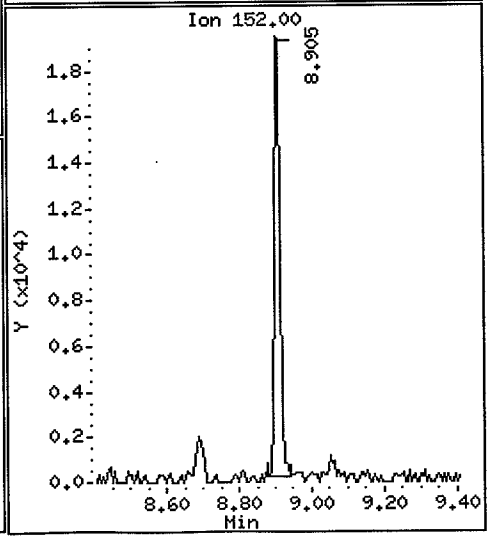












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

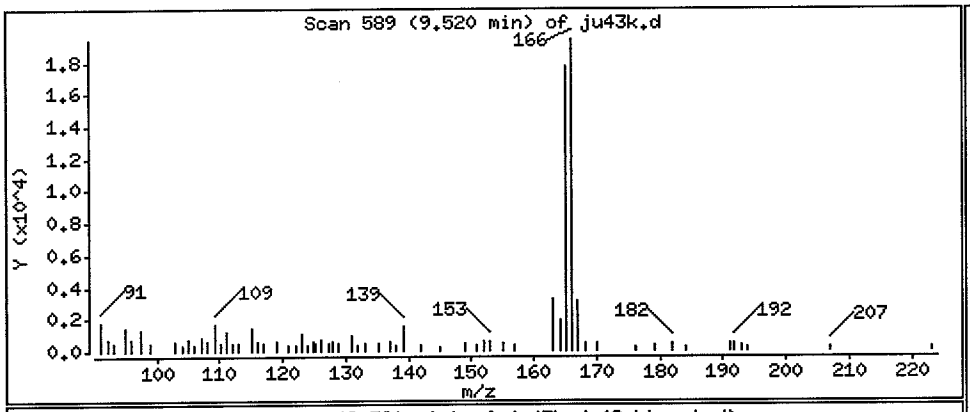
Operator: VTS

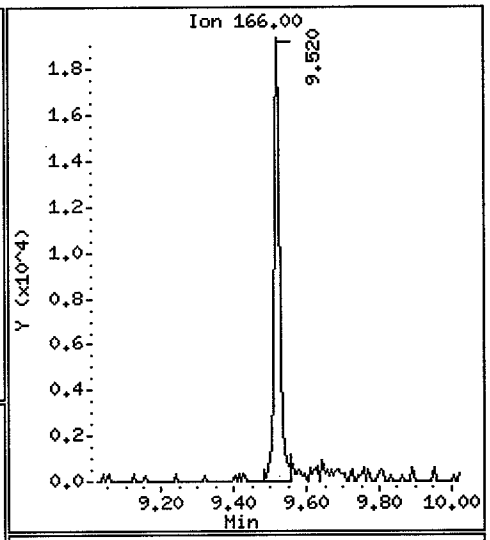
Column phase: ZB-5

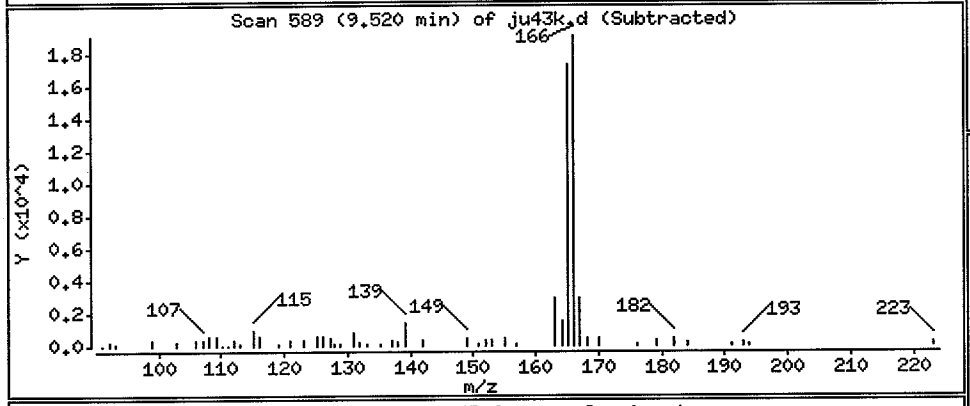
Column diameter: 0.25

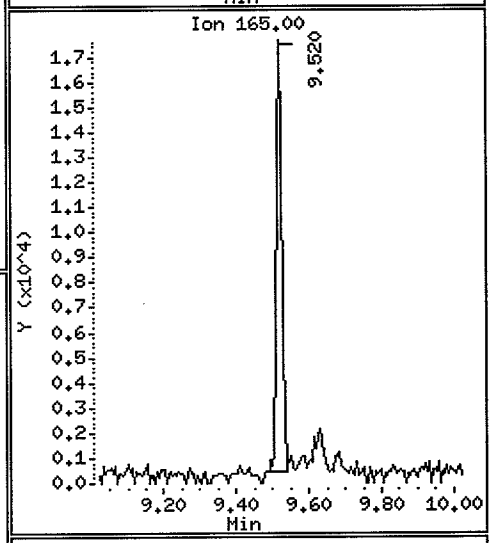
11 Fluorene

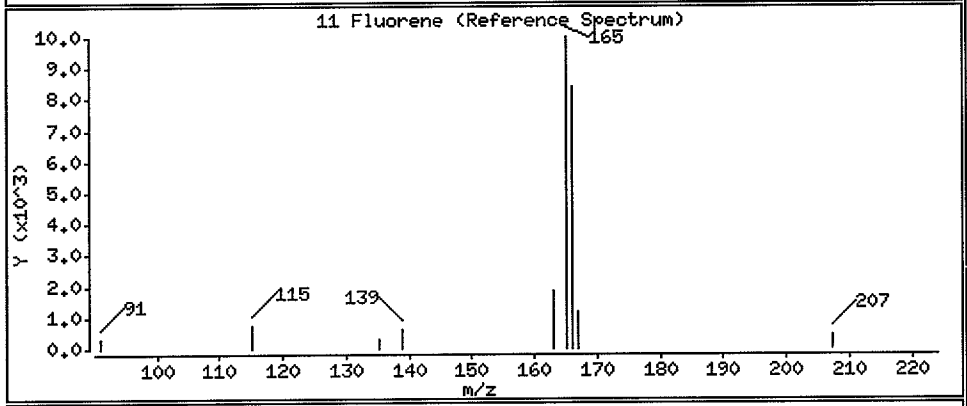
Concentration: 12.45 ug/kg

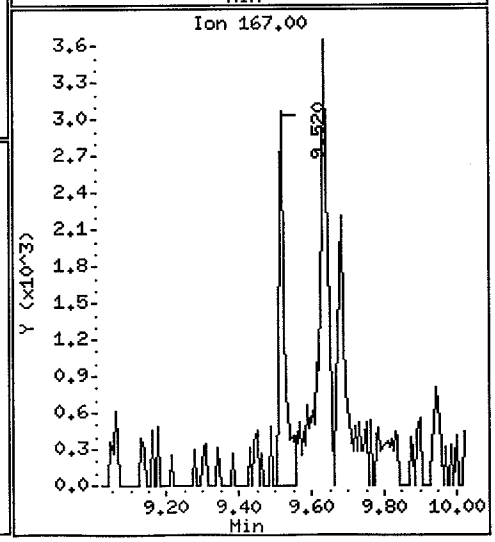


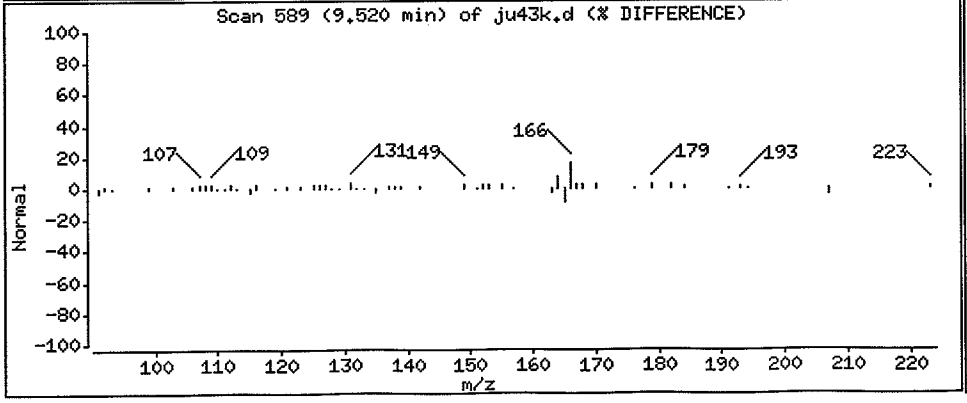












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

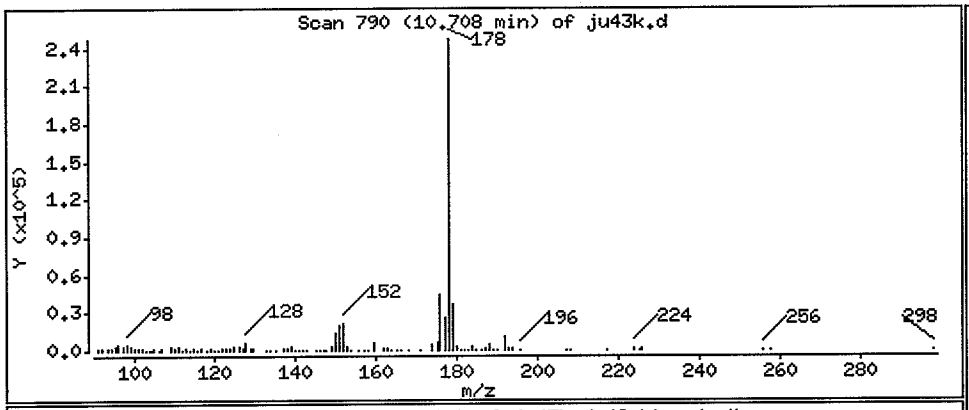
Operator: VTS

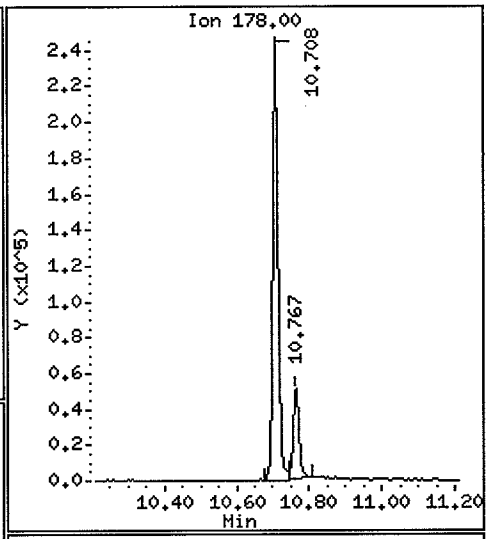
Column phase: ZB-5

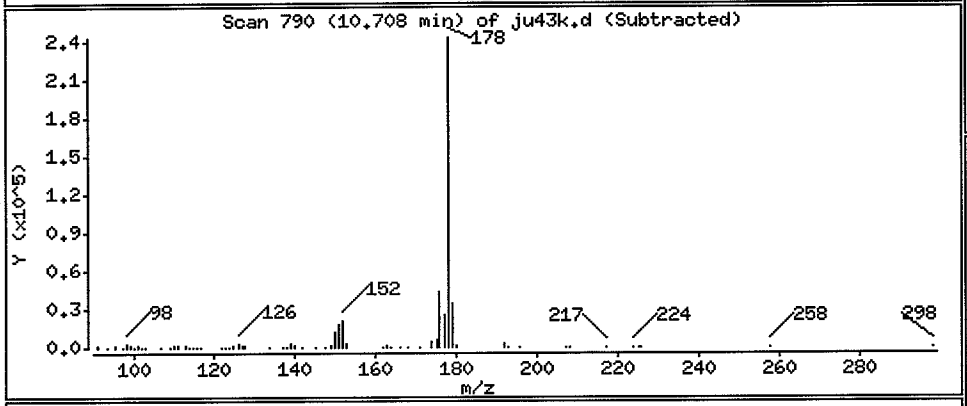
Column diameter: 0.25

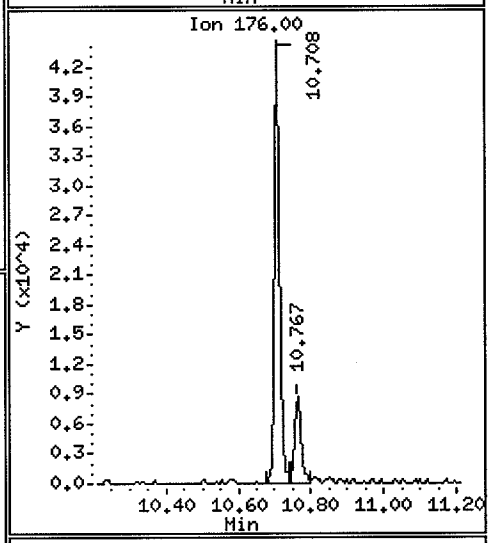
16 Phenanthrene

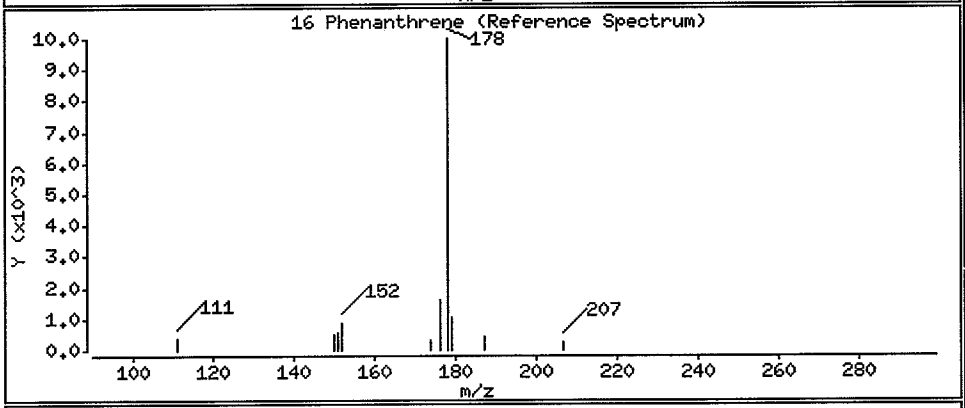
Concentration: 109.5 ug/kg

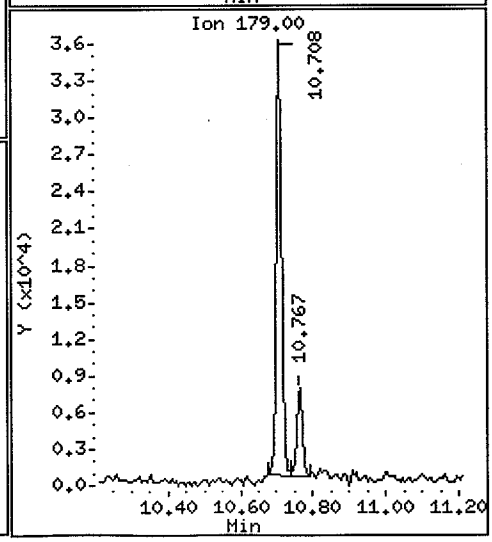


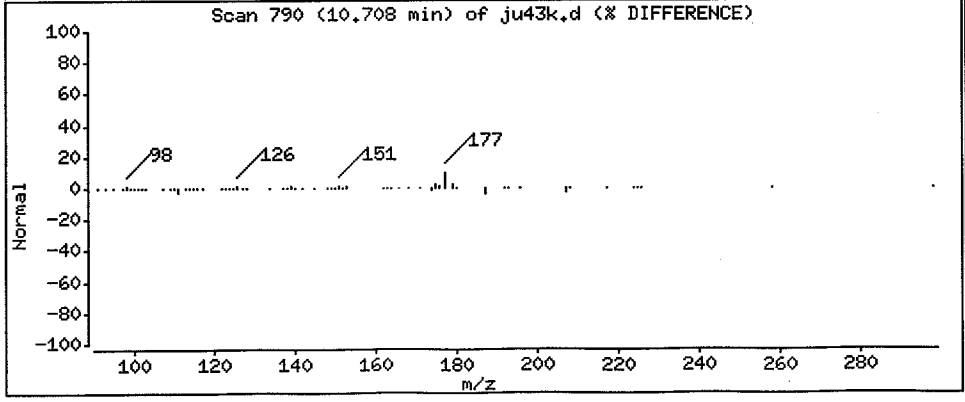












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

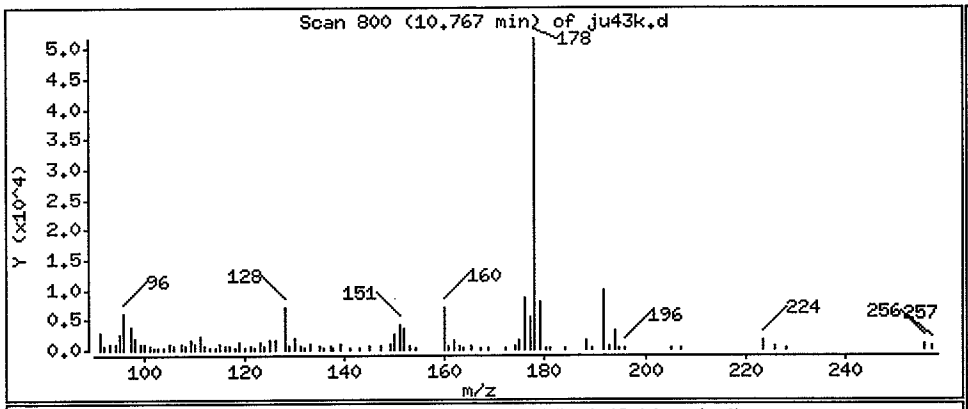
Operator: VTS

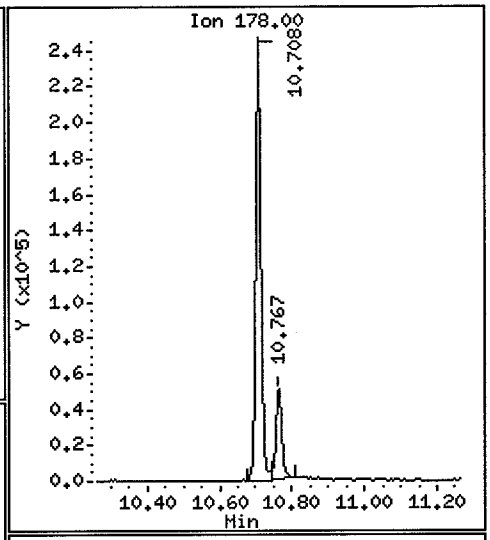
Column phase: ZB-5

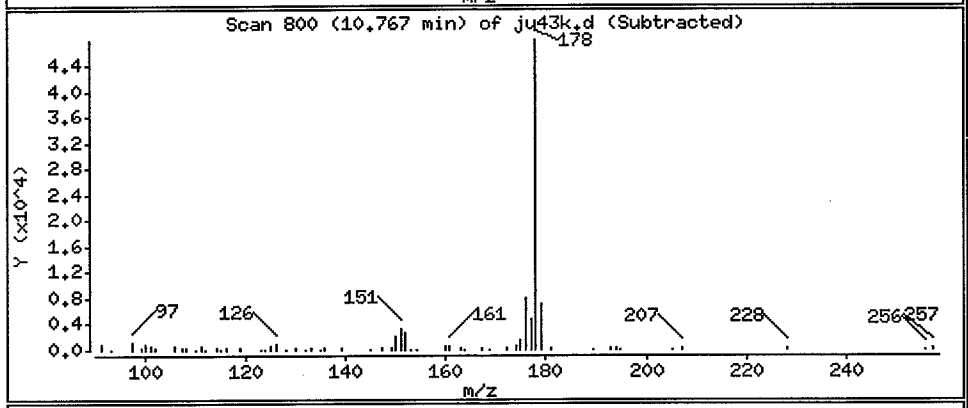
Column diameter: 0.25

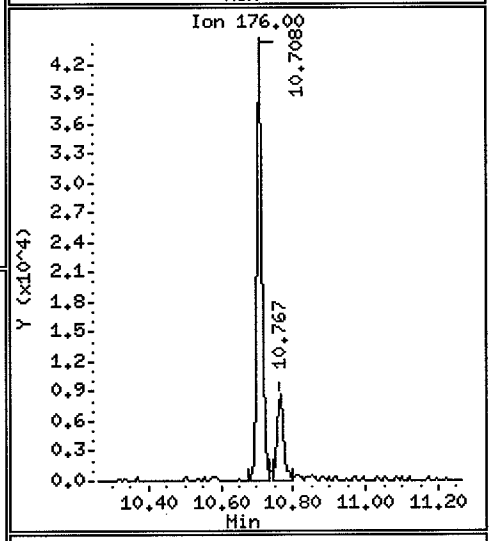
17 Anthracene

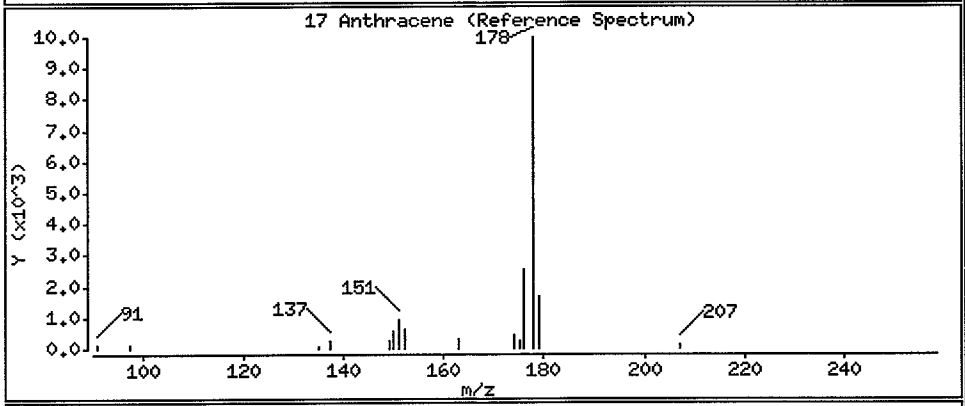
Concentration: 25.43 ug/kg

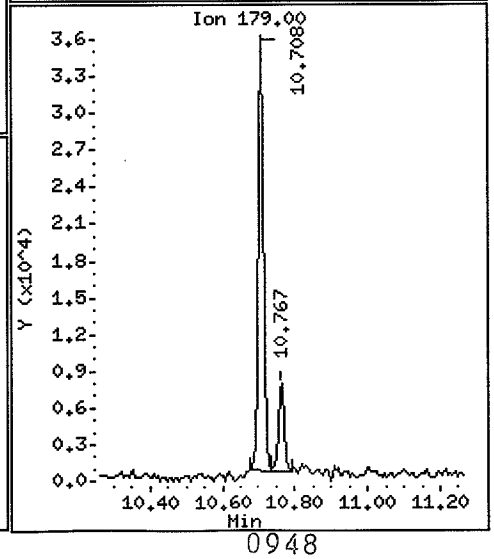


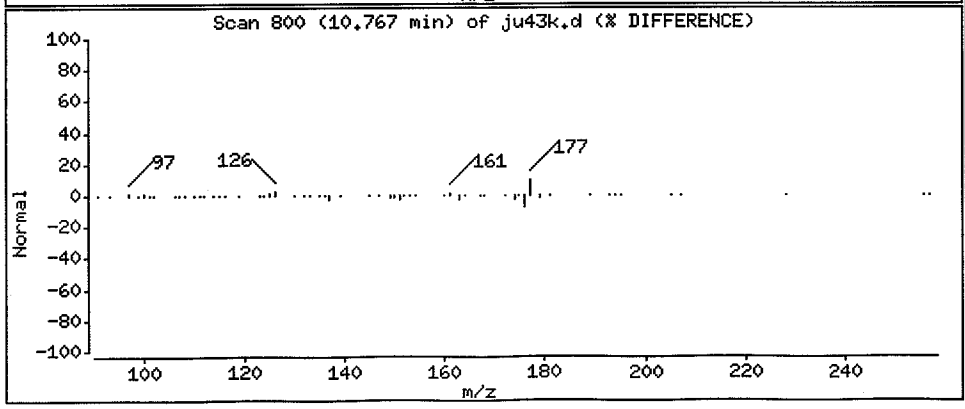












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

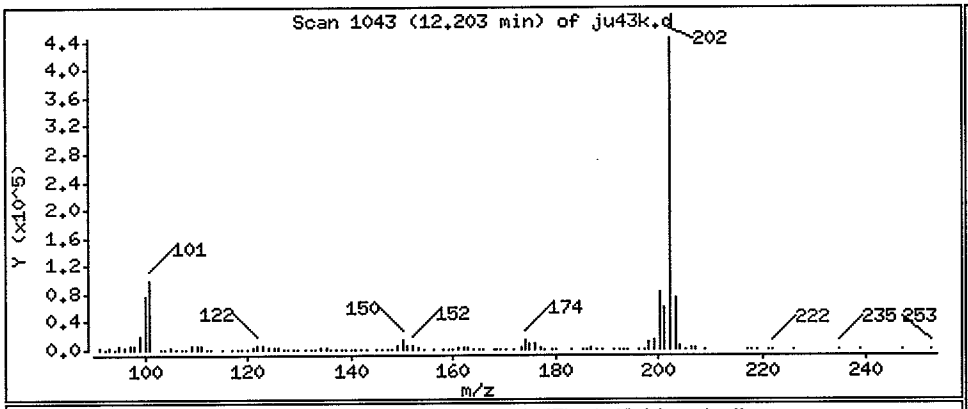
Operator: VTS

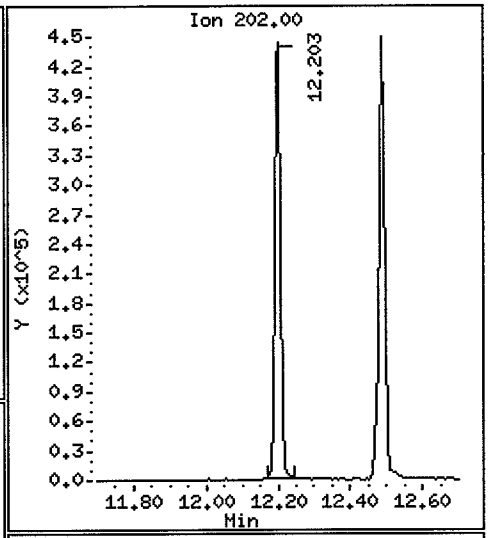
Column phase: ZB-5

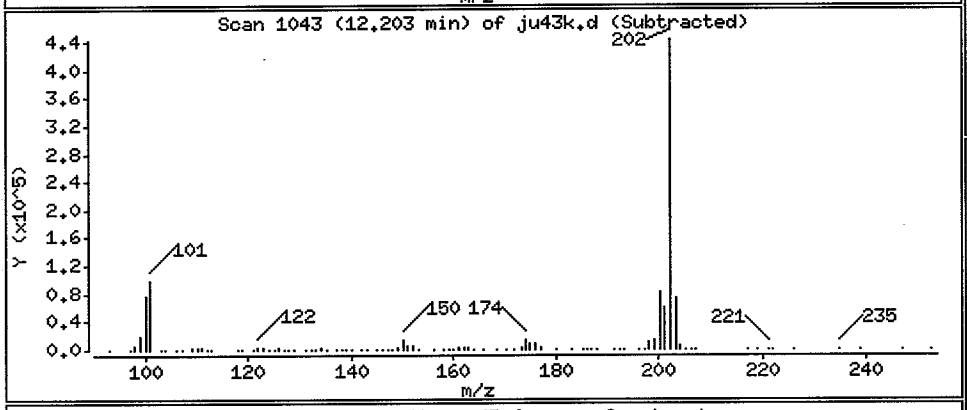
Column diameter: 0.25

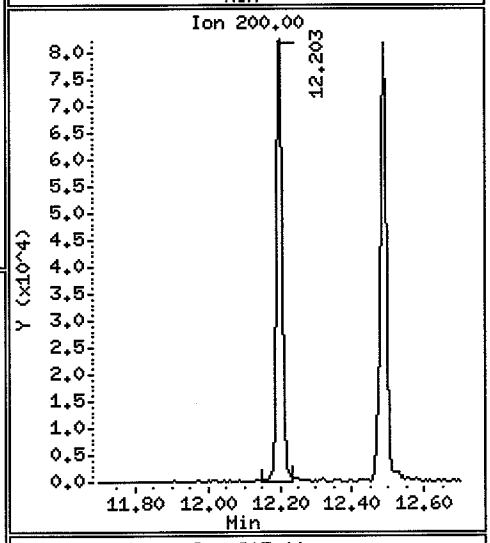
19 Fluoranthene

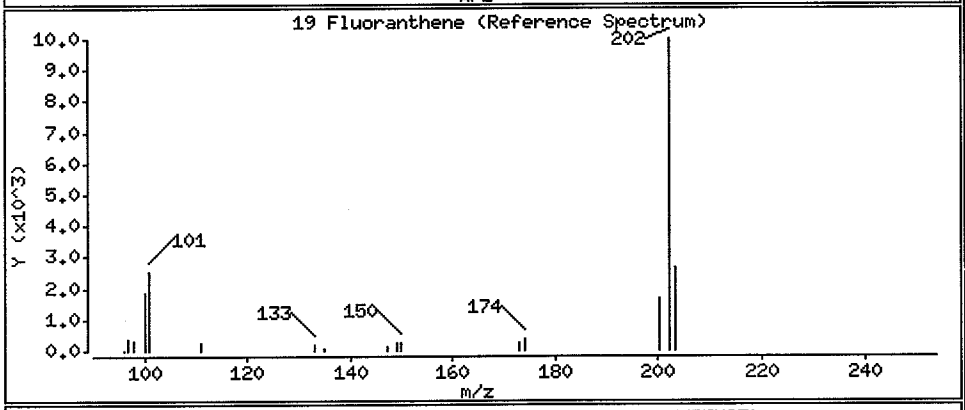
Concentration: 252.8 ug/kg

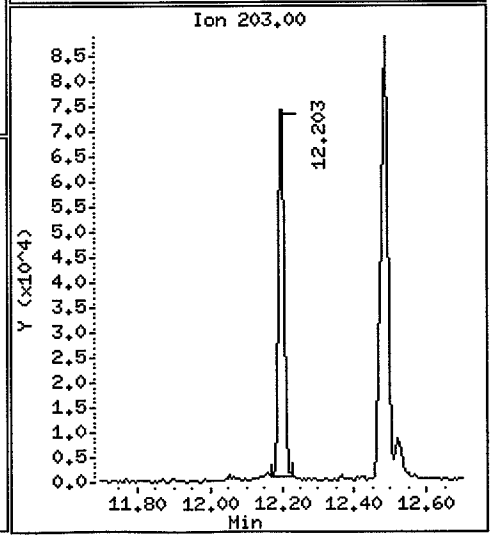


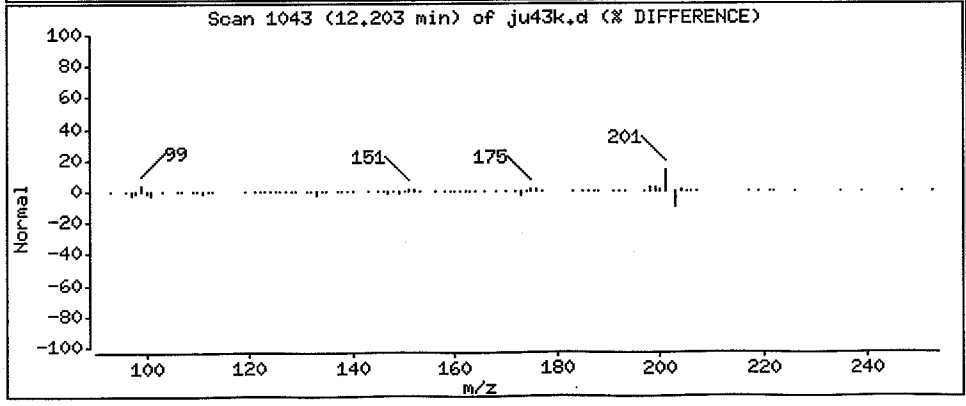












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

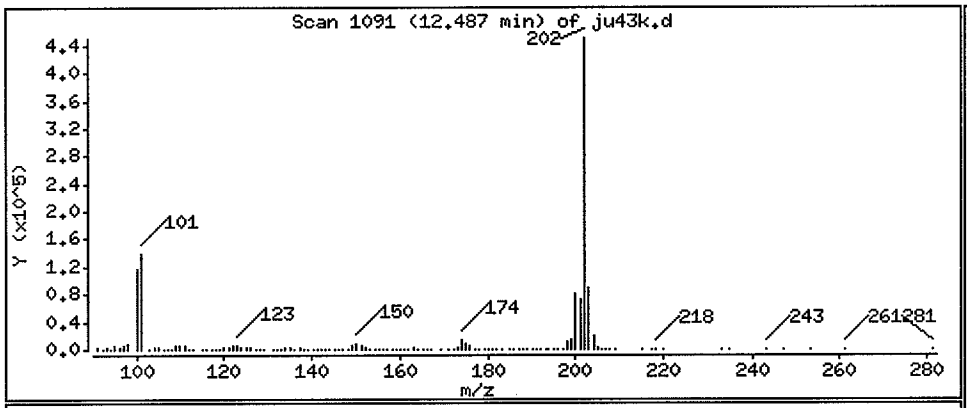
Operator: VTS

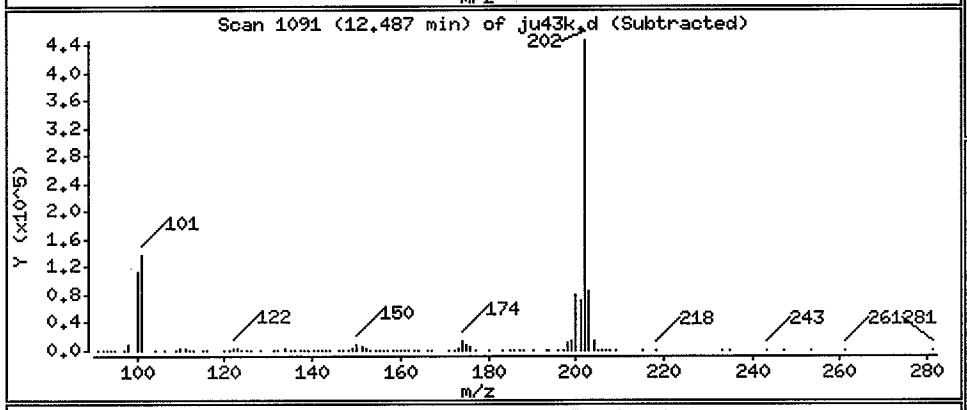
Column phase: ZB-5

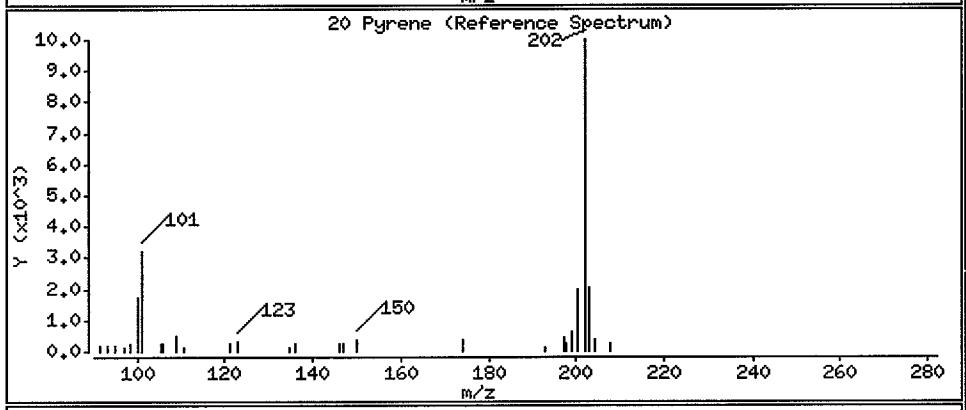
Column diameter: 0.25

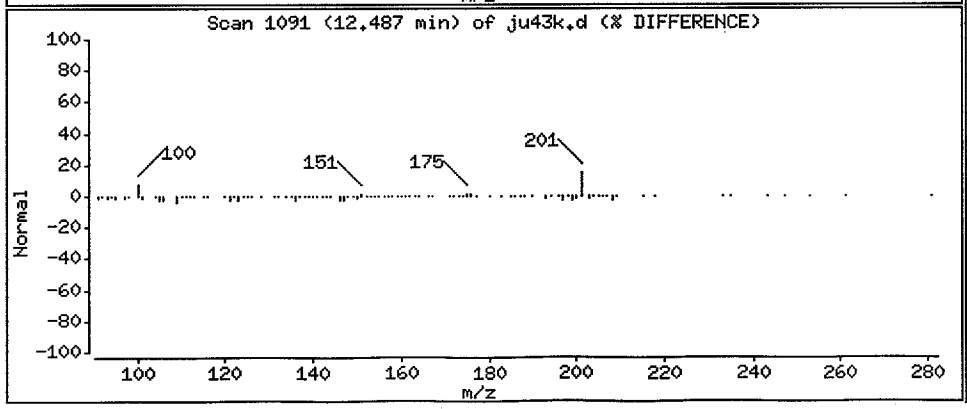
20 Pyrene

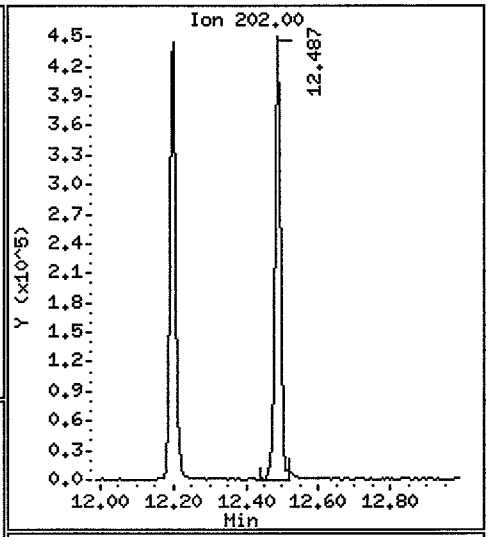
Concentration: 219.6 ug/kg

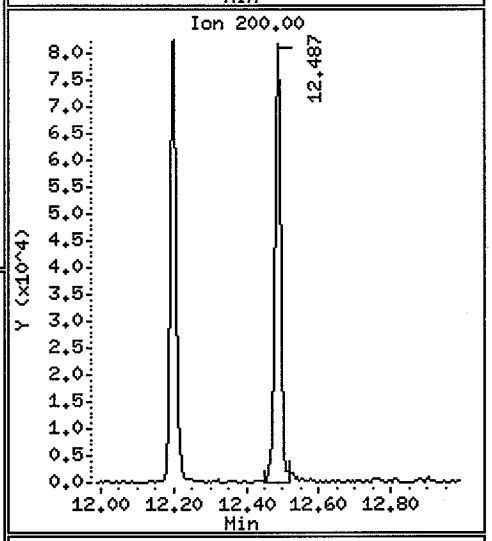


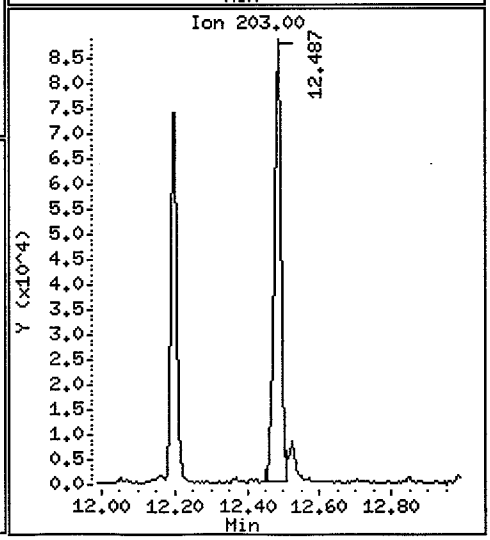












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

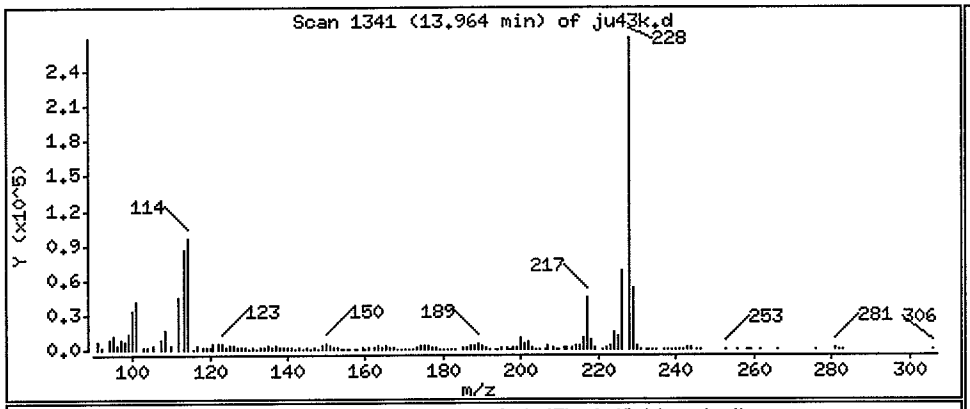
Operator: VTS

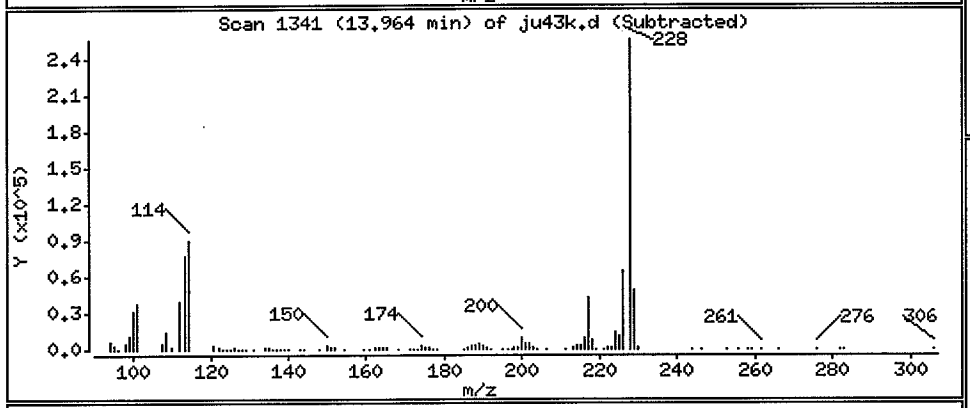
Column phase: ZB-5

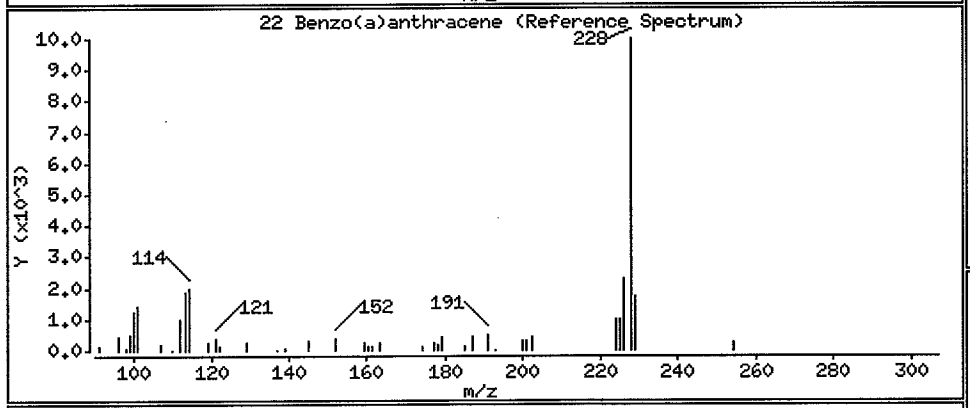
Column diameter: 0.25

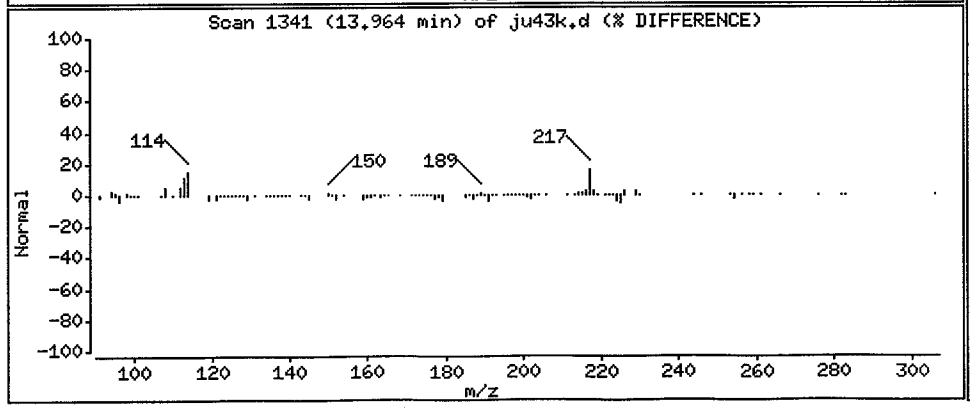
22 Benzo(a)anthracene

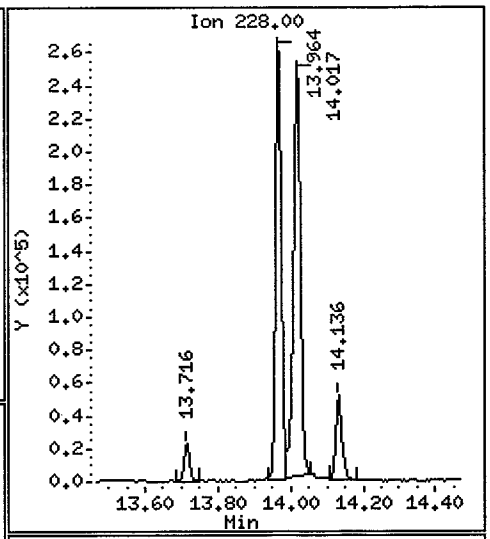
Concentration: 157.7 ug/kg

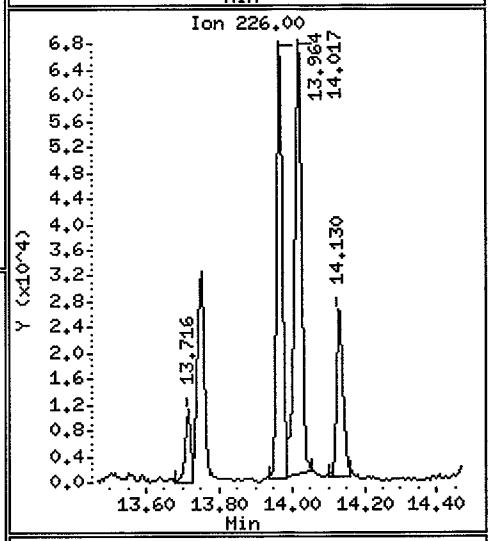


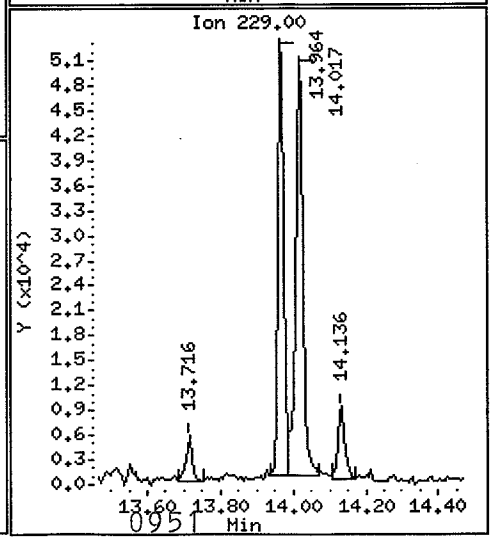












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

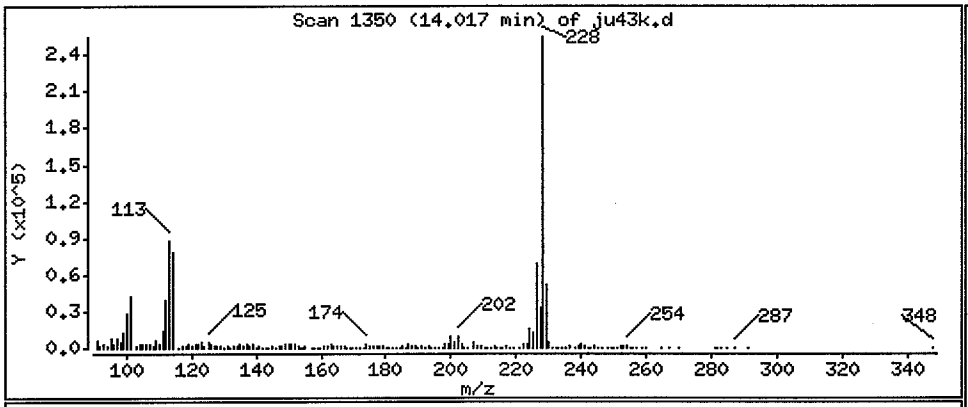
Operator: VTS

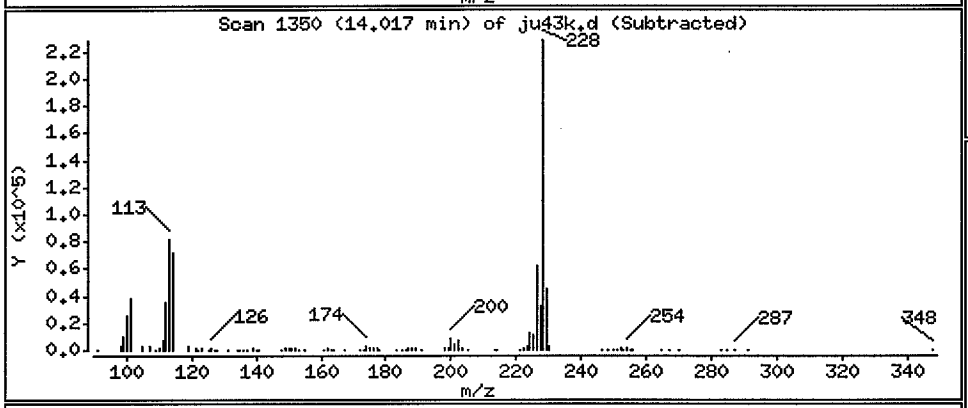
Column phase: ZB-5

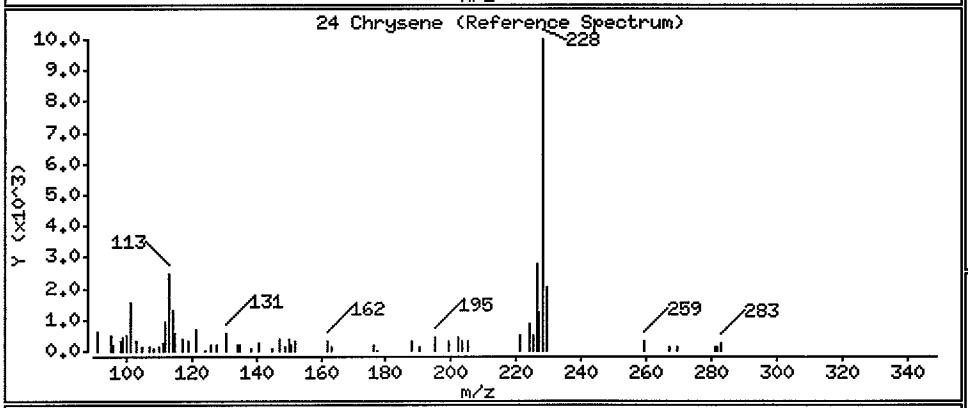
Column diameter: 0.25

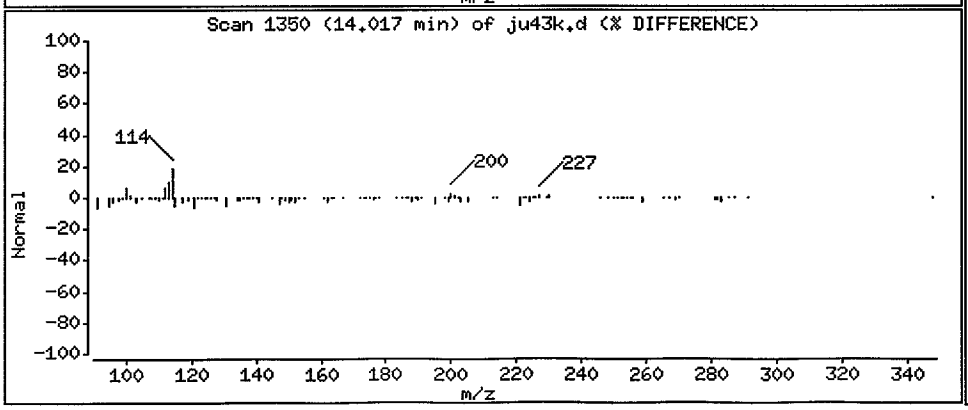
24 Chrysene

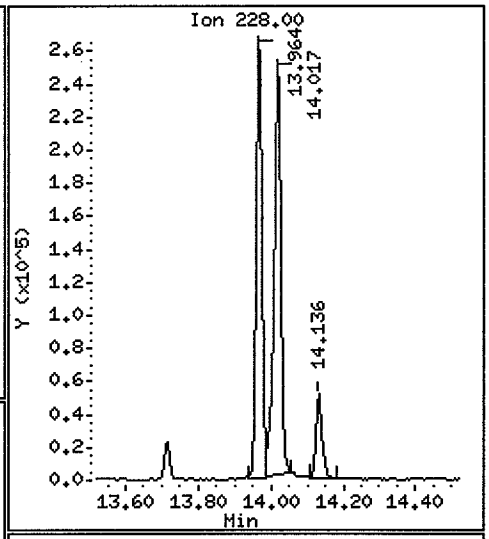
Concentration: 186.8 ug/kg

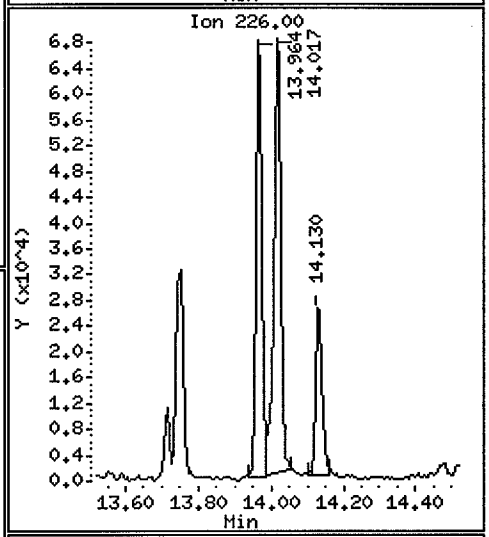


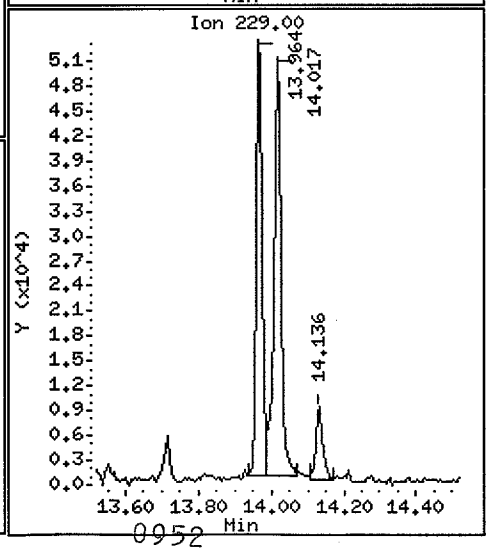












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

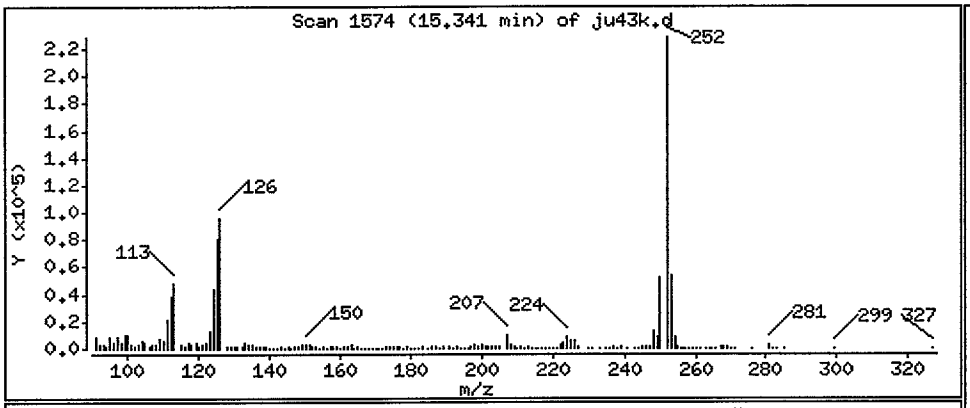
Operator: VTS

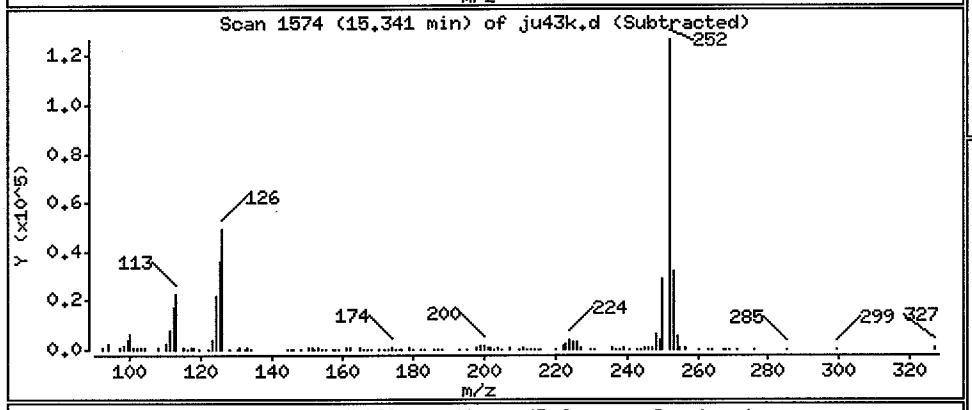
Column phase: ZB-5

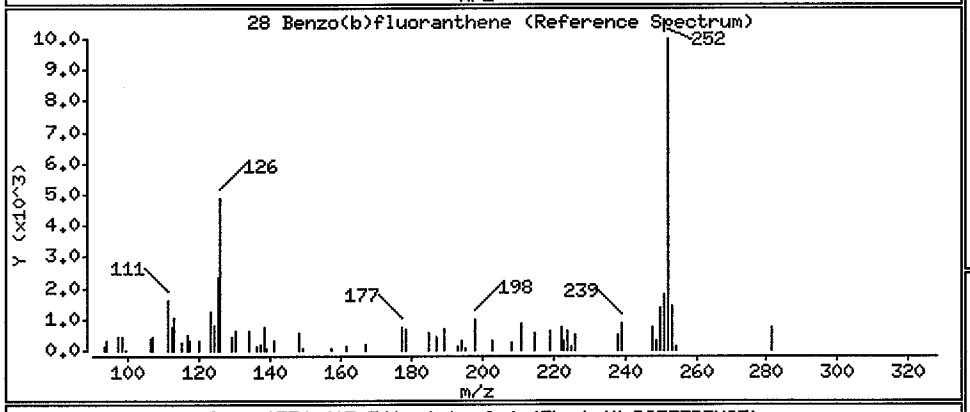
Column diameter: 0.25

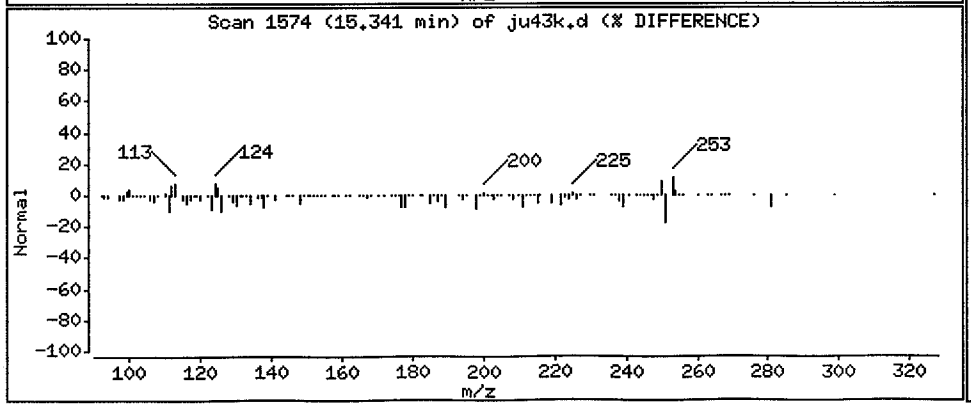
28 Benzo(b)fluoranthene

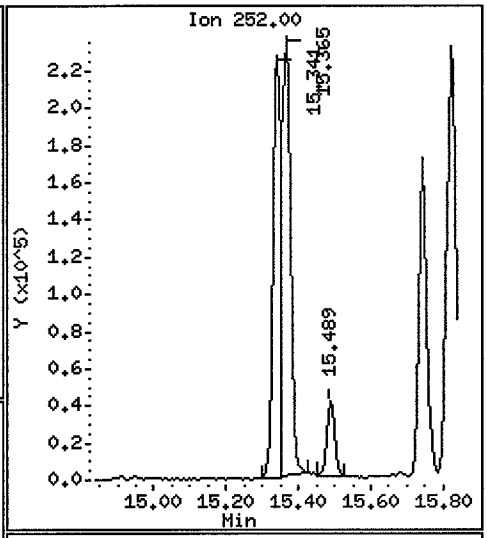
Concentration: 190.9 ug/kg

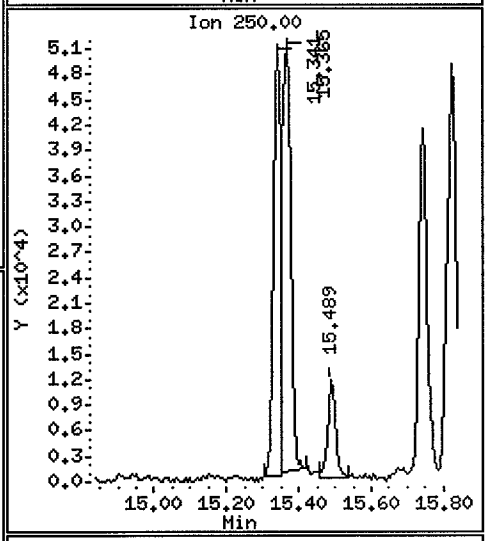


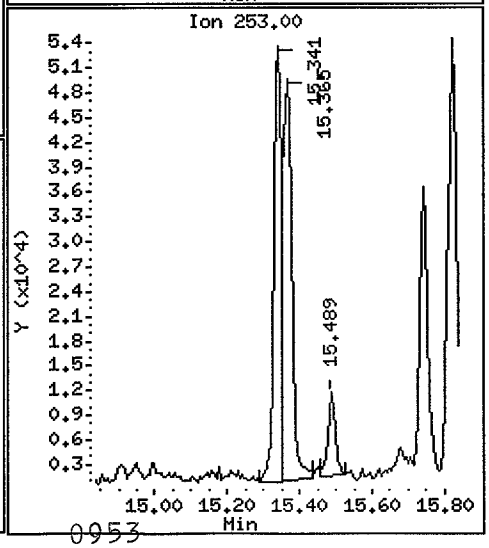












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

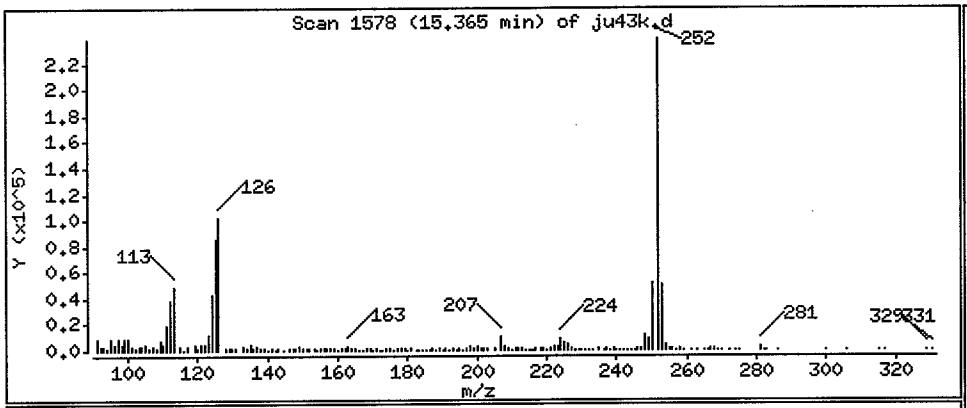
Operator: VTS

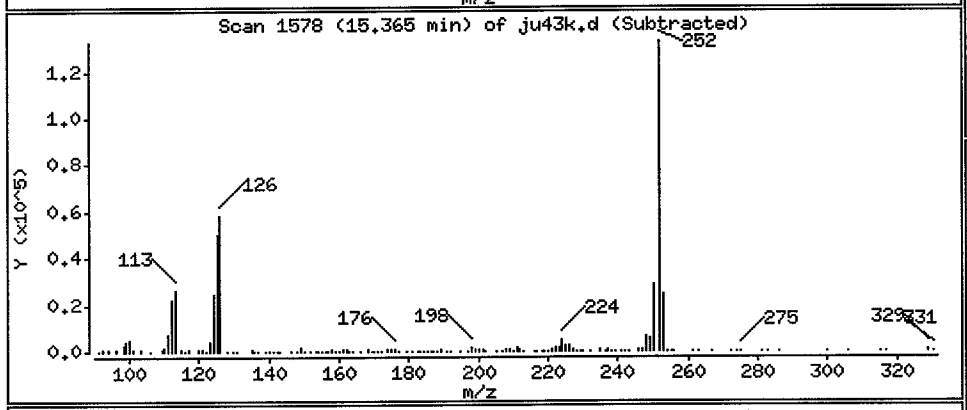
Column phase: ZB-5

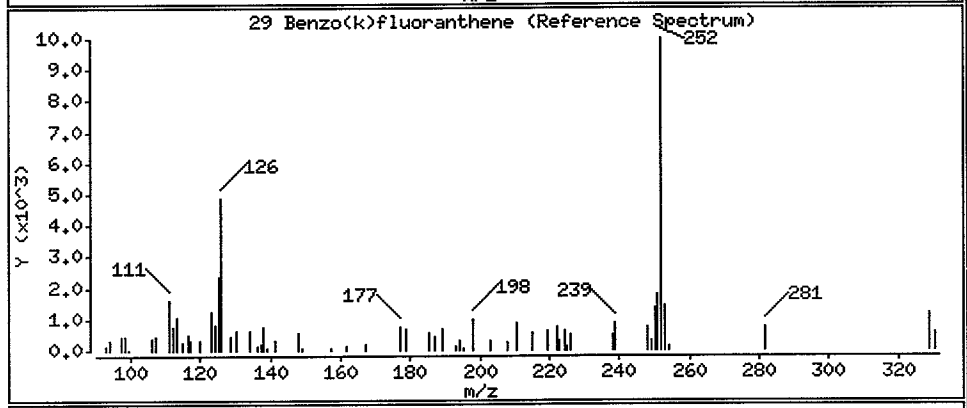
Column diameter: 0.25

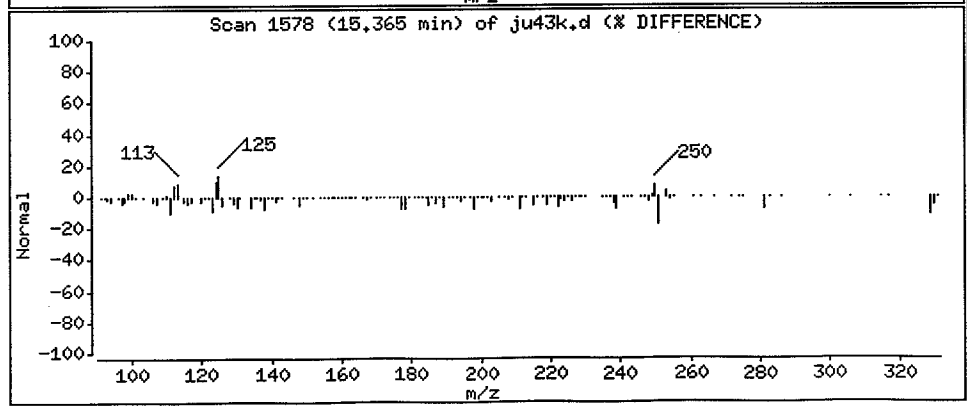
29 Benzo(k)fluoranthene

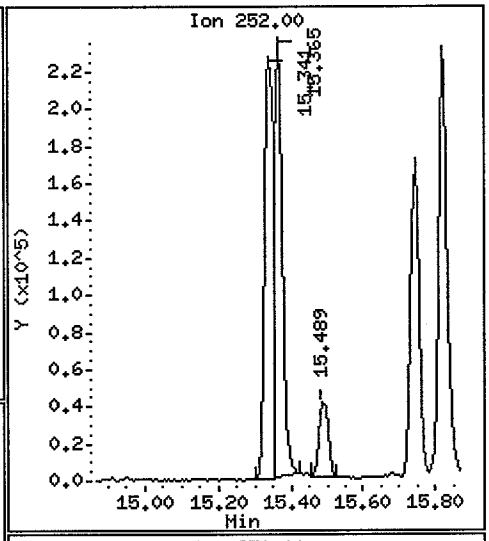
Concentration: 187.6 ug/kg

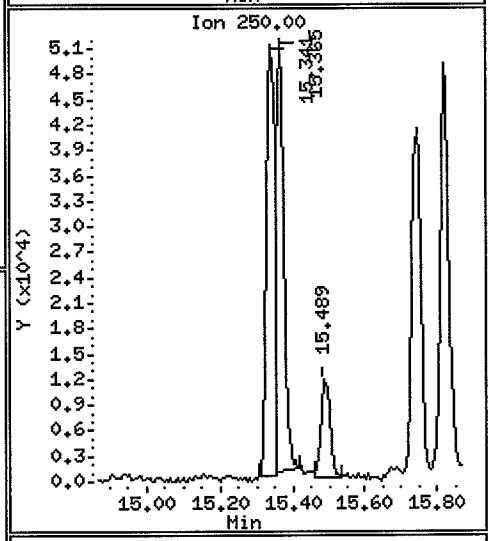


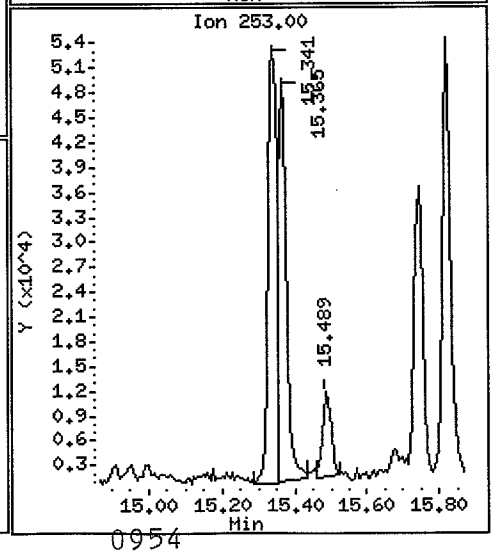












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

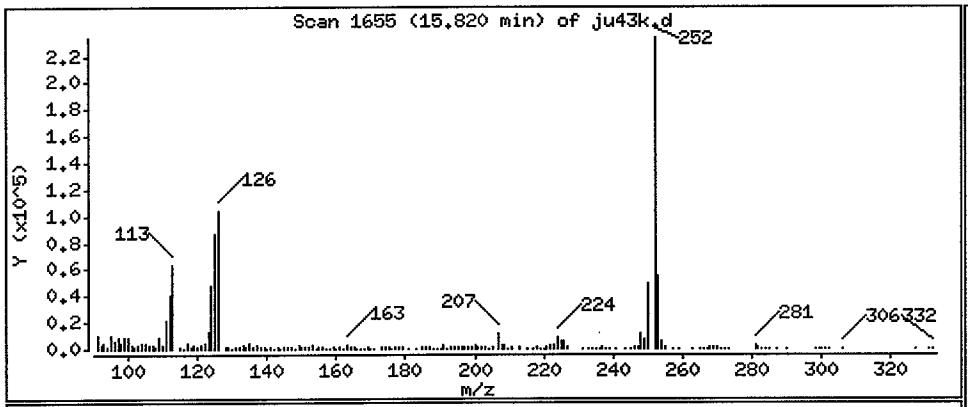
Operator: VTS

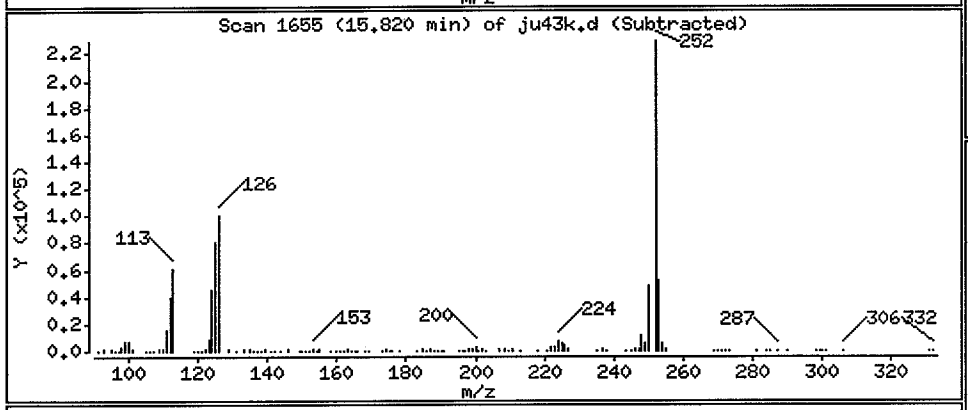
Column phase: ZB-5

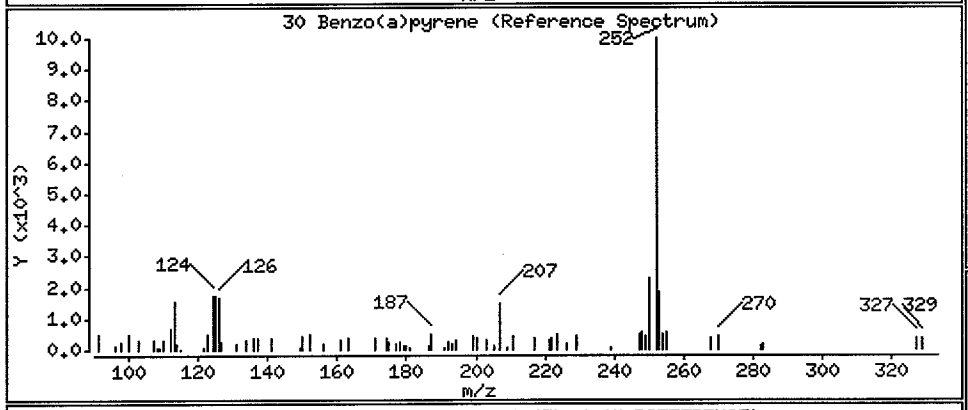
Column diameter: 0.25

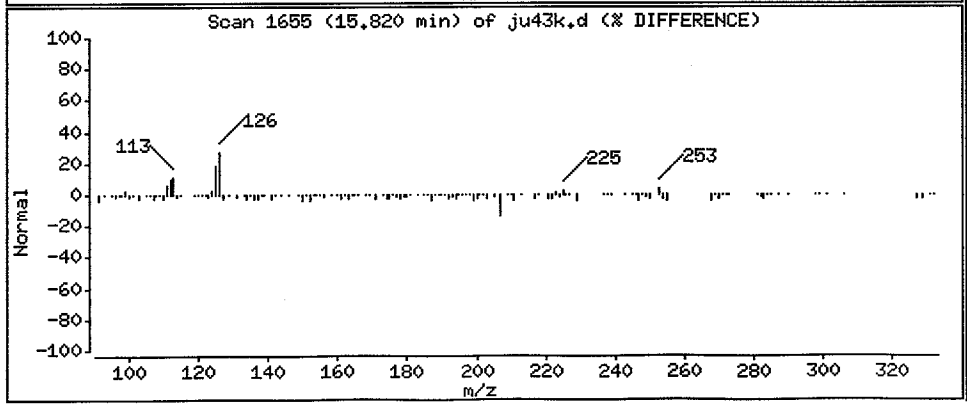
30 Benzo(a)pyrene

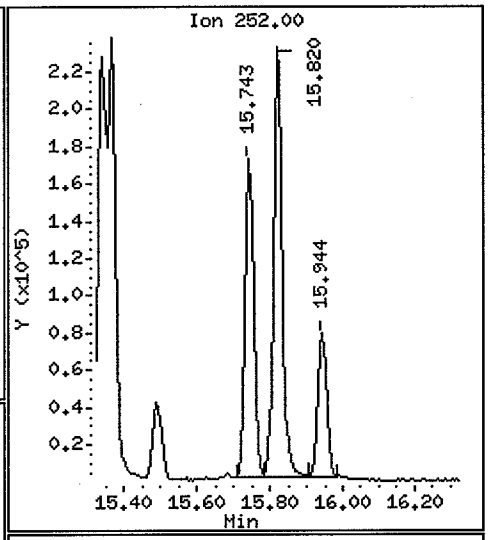
Concentration: 222.4 ug/kg

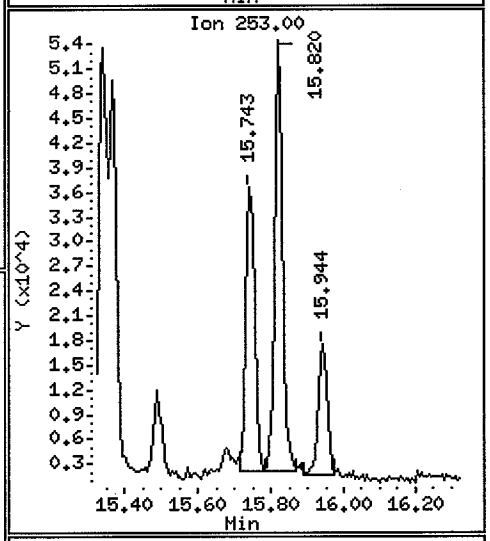


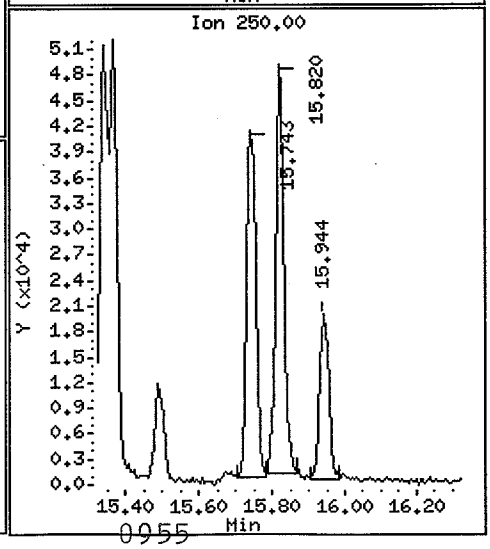












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

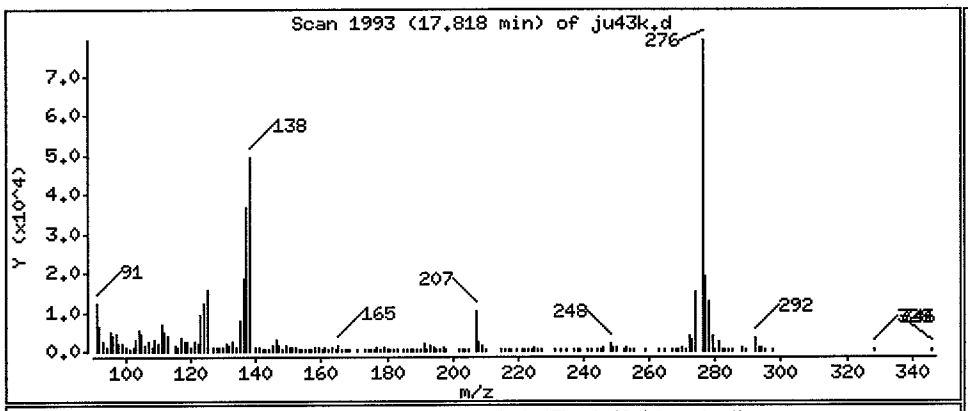
Operator: VTS

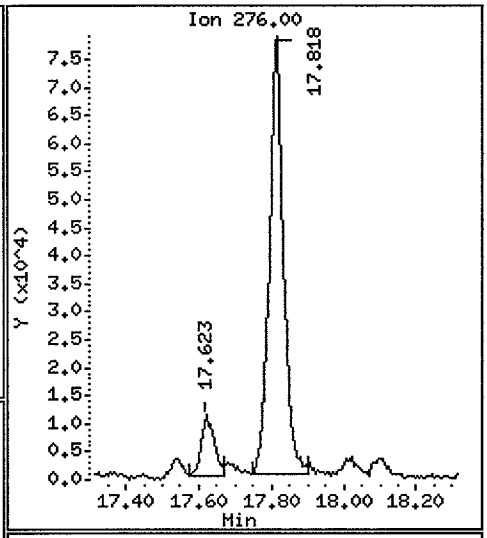
Column phase: ZB-5

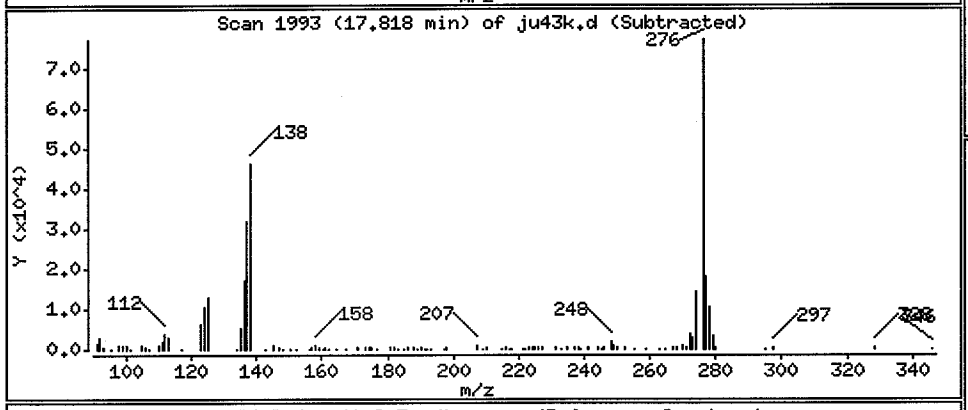
Column diameter: 0.25

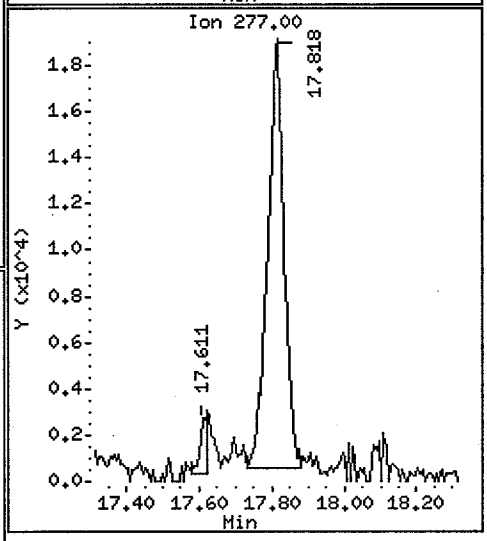
33 Indeno(1,2,3-cd)pyrene

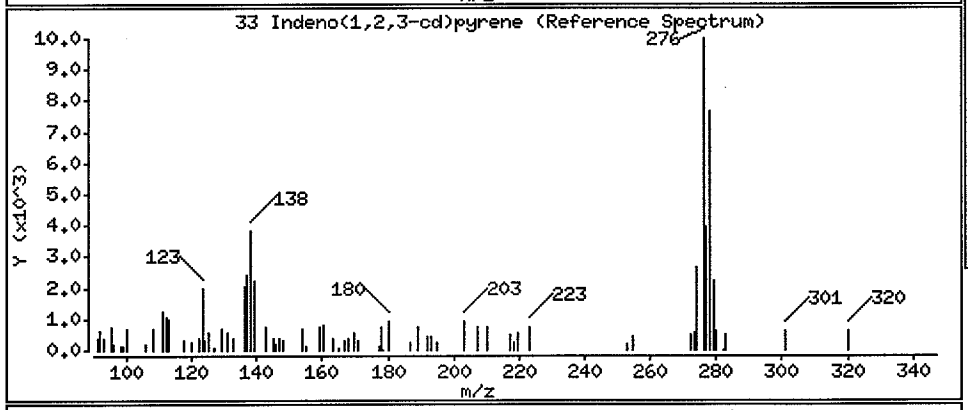
Concentration: 113.0 ug/kg

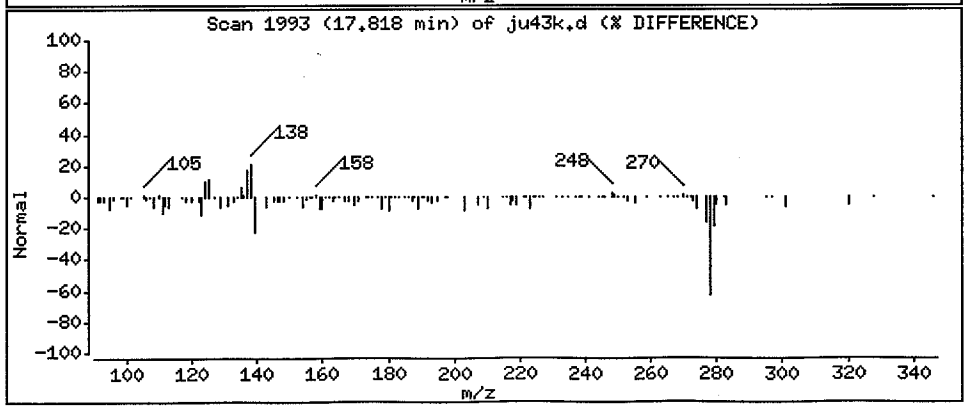












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

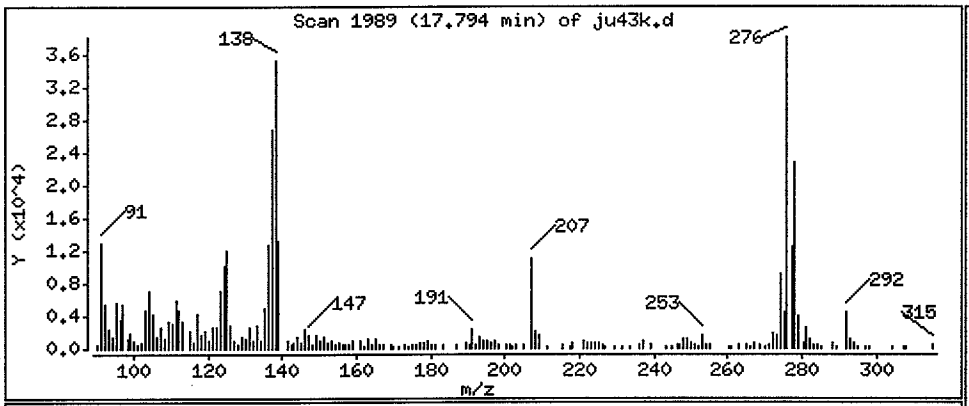
Operator: VTS

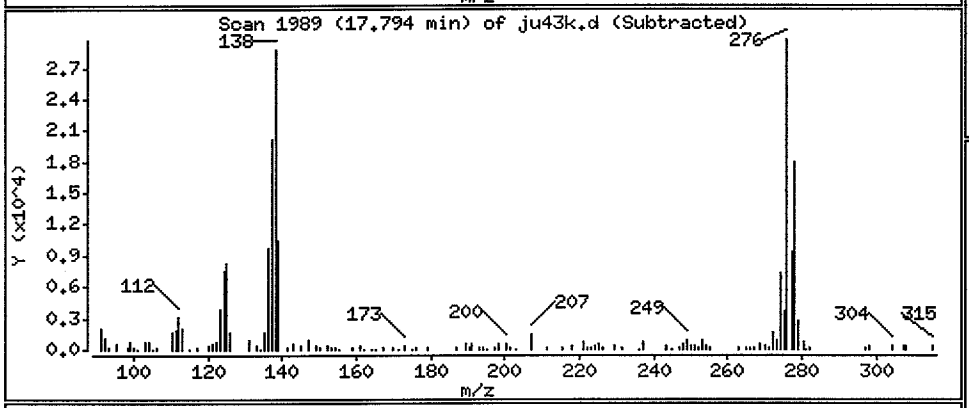
Column phase: ZB-5

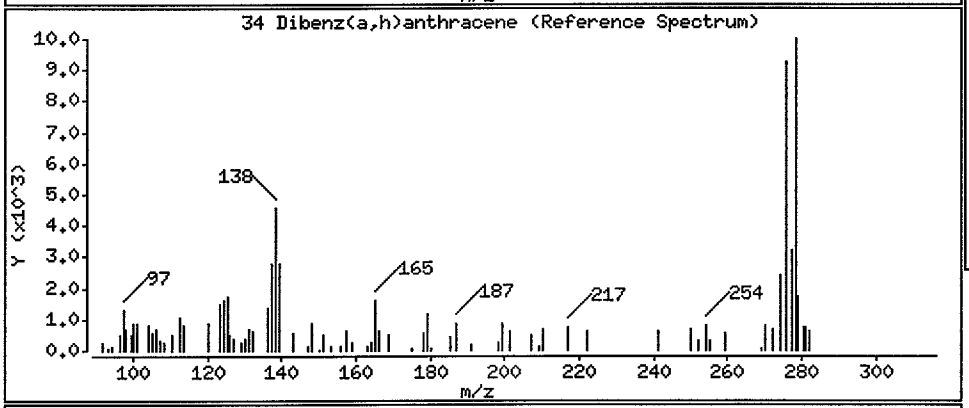
Column diameter: 0.25

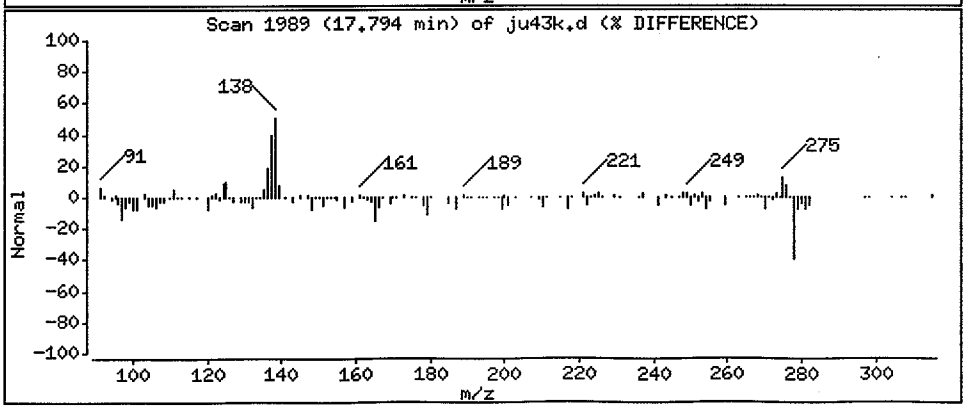
34 Dibenz(a,h)anthracene

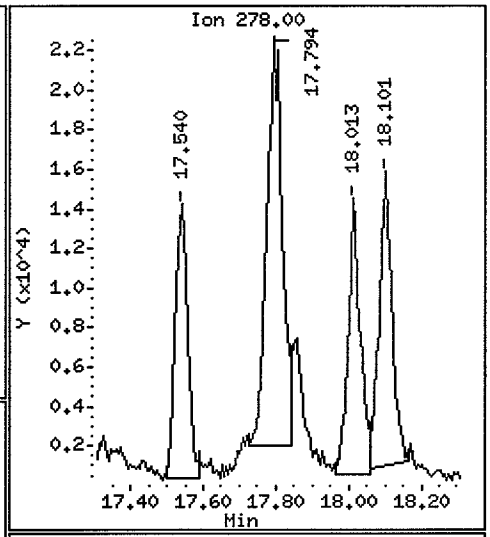
Concentration: 39.45 ug/kg

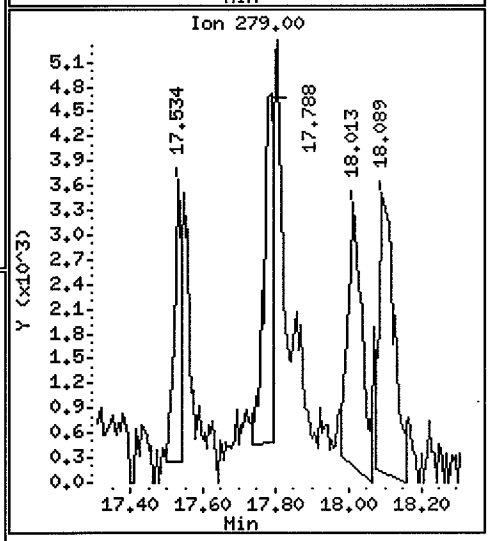












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

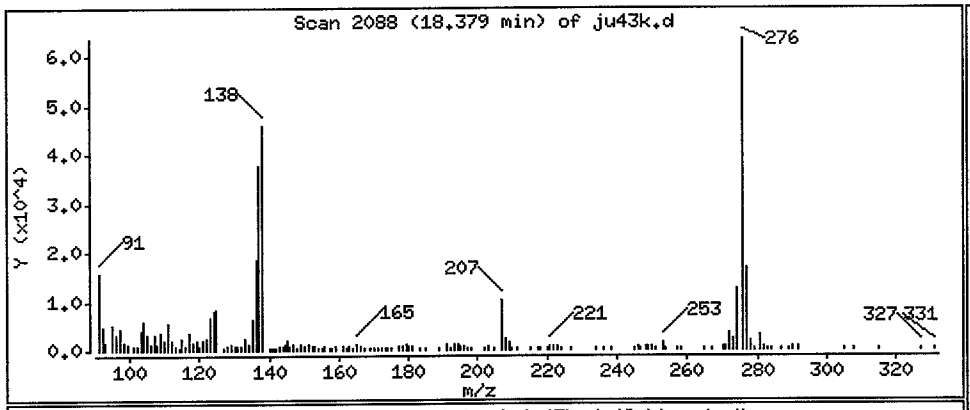
Operator: VTS

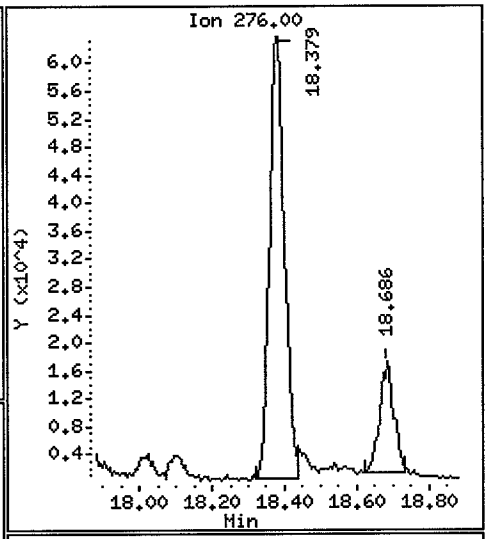
Column phase: ZB-5

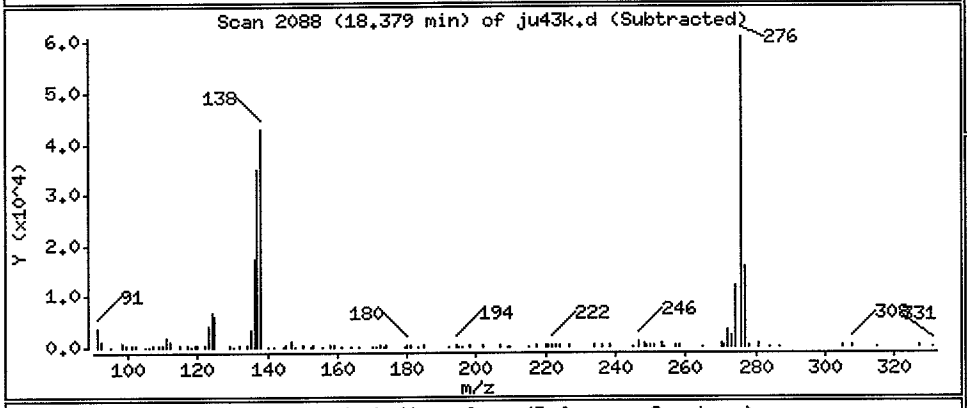
Column diameter: 0.25

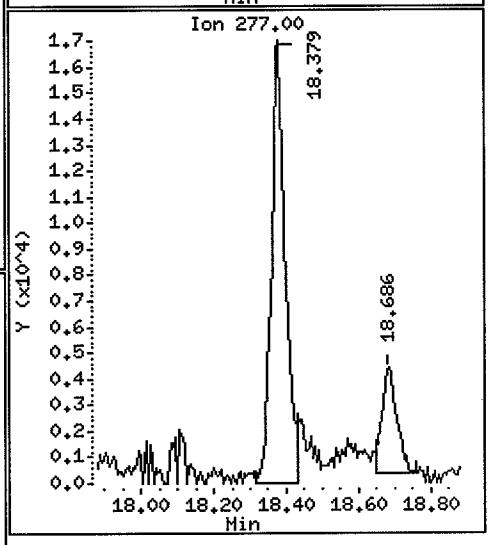
35 Benzo(g,h,i)perylene

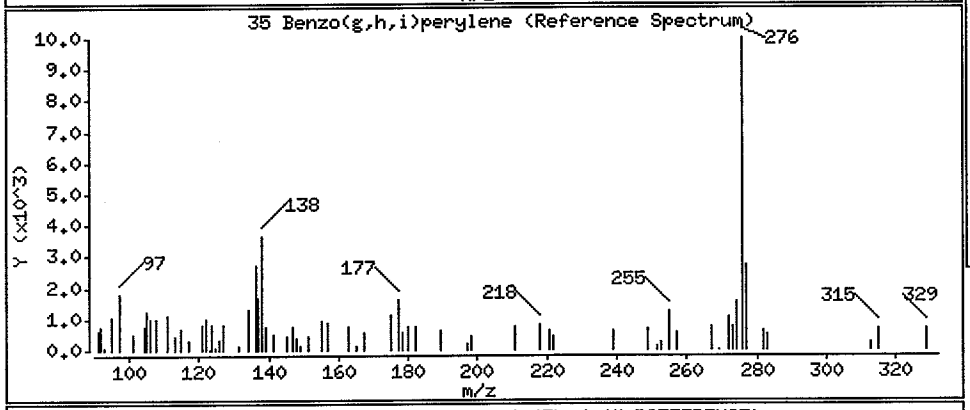
Concentration: 109.4 ug/kg

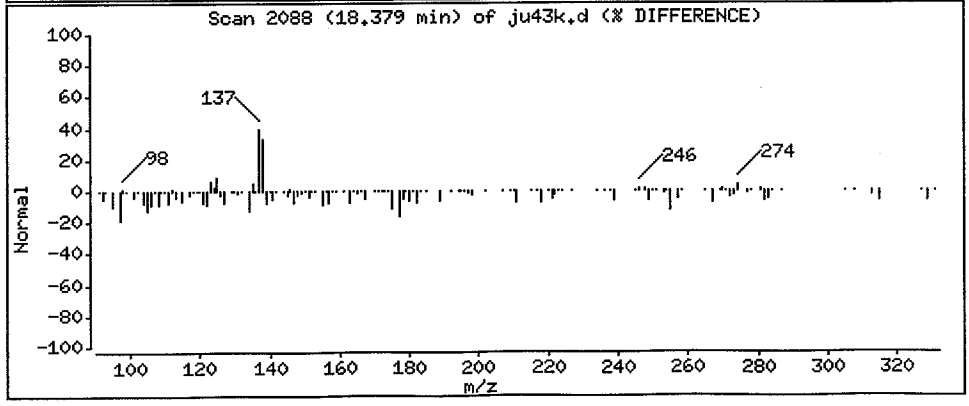












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

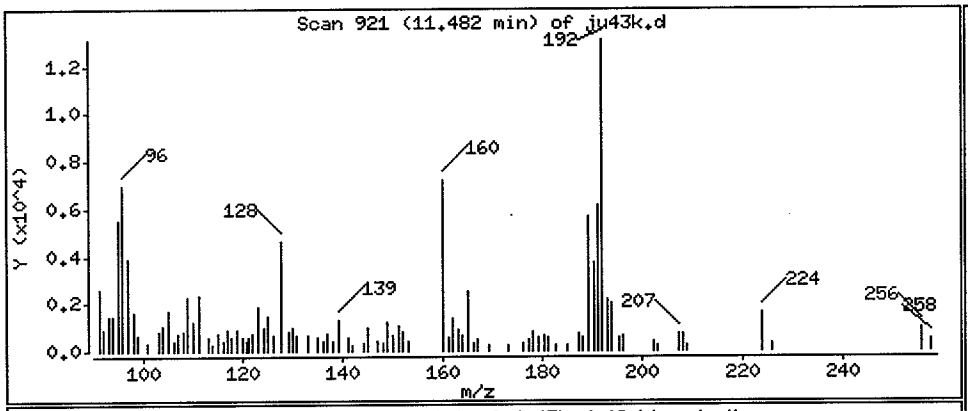
Operator: VTS

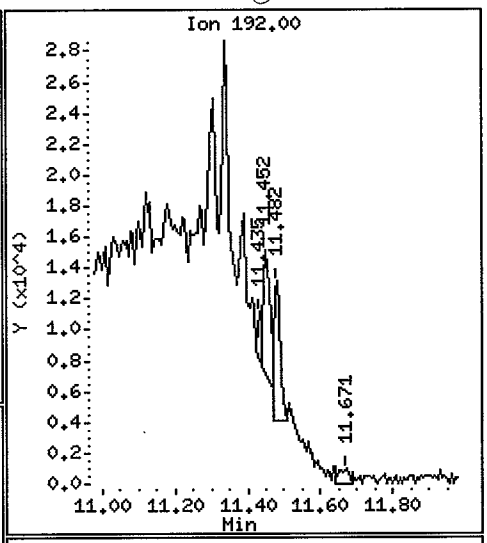
Column phase: ZB-5

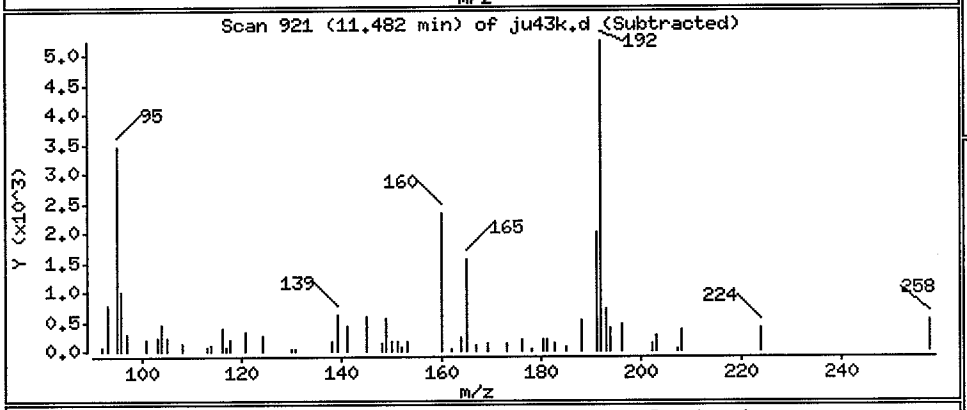
Column diameter: 0.25

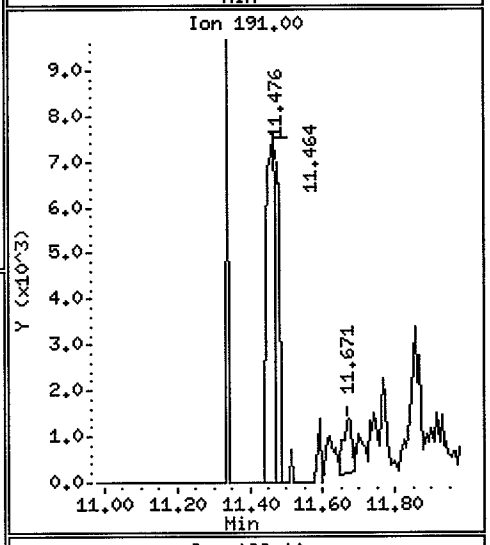
51 1-Methylphenanthrene

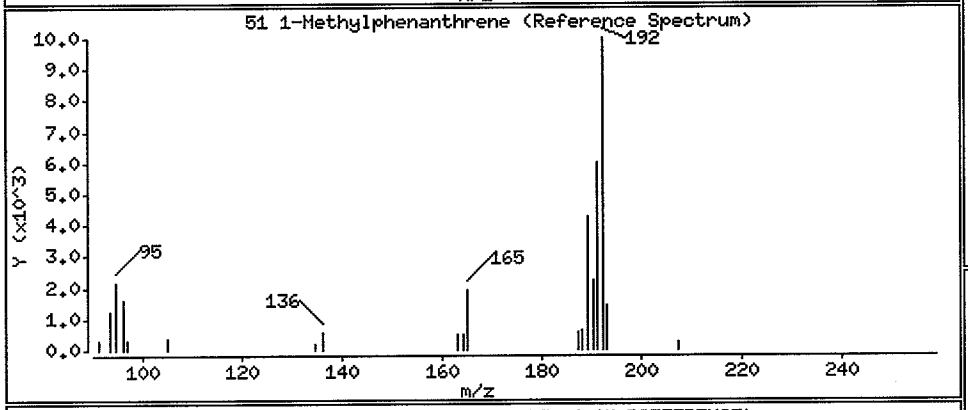
Concentration: 7.416 ug/kg

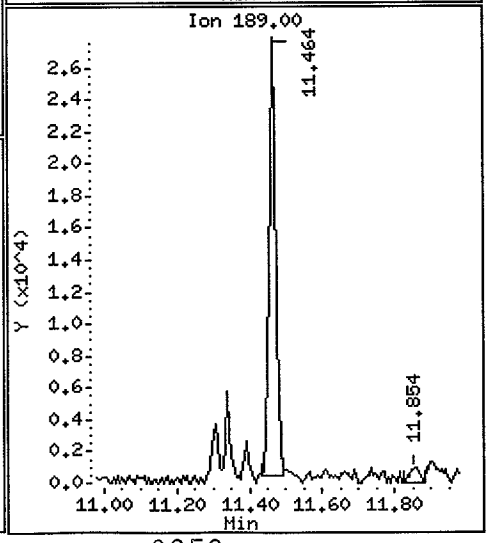


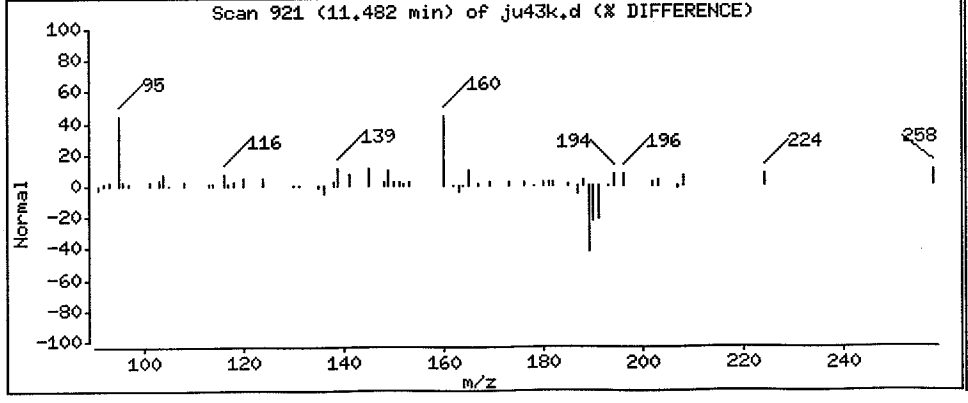












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

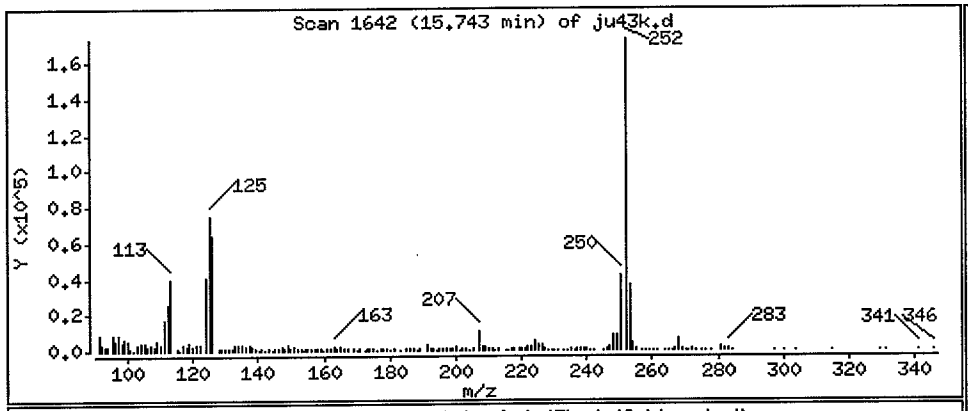
Operator: VTS

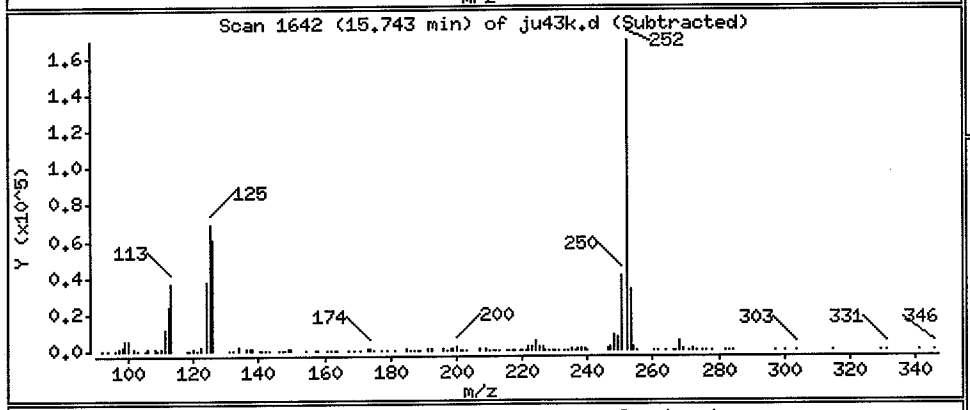
Column phase: ZB-5

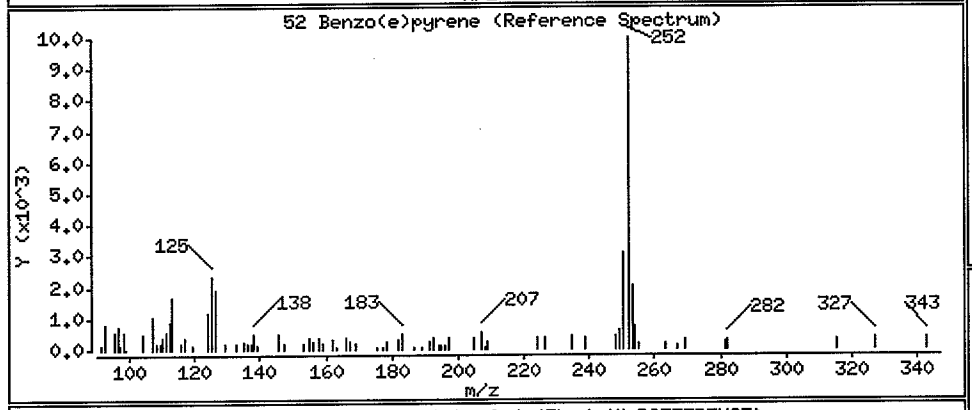
Column diameter: 0.25

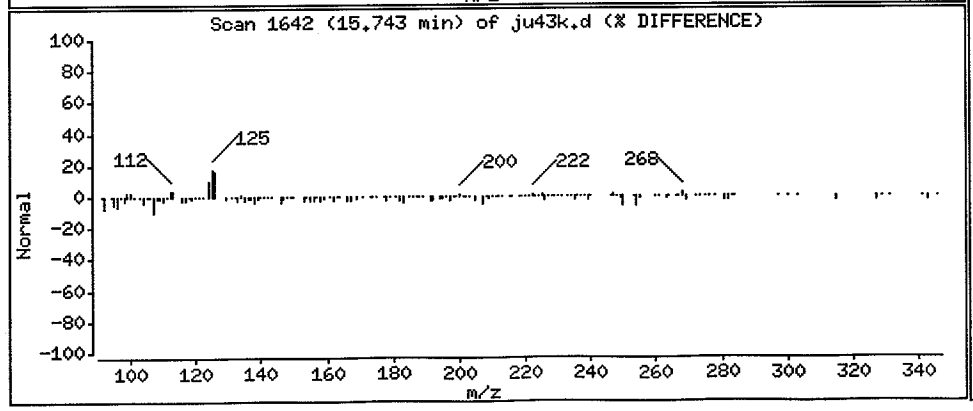
52 Benzo(e)pyrene

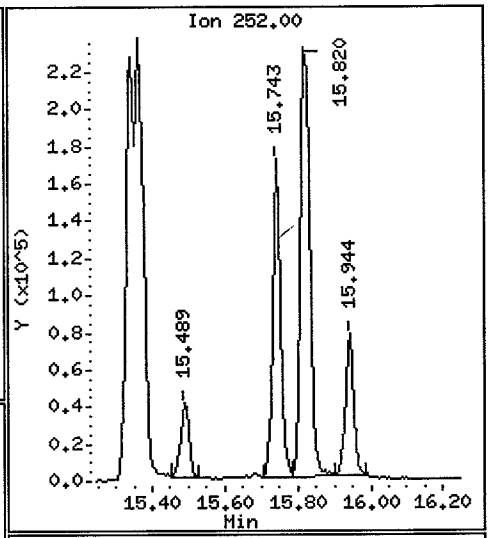
Concentration: 133.8 ug/kg

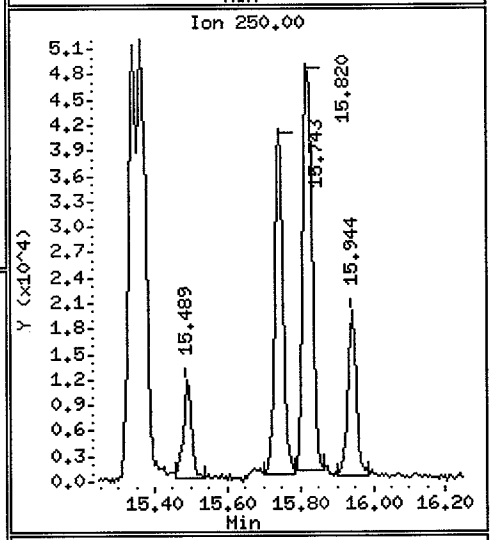


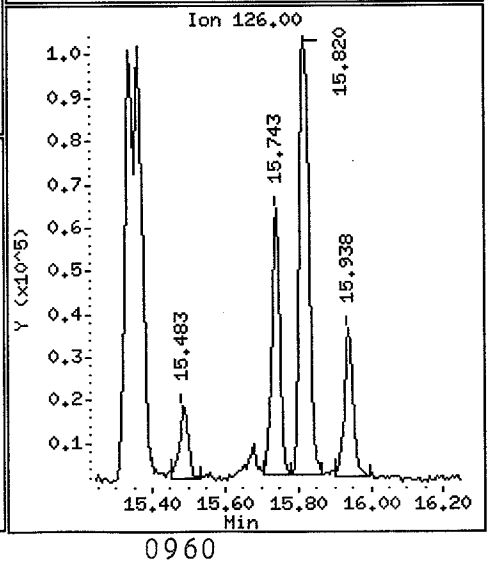












Data File: /chem3/nt1.i/20060912.b/ju43k.d

Date : 12-SEP-2006 18:24

Client ID: T4-S3-08-D

Instrument: nt1.i

Sample Info: JU43K

Volume Injected (uL): 1.0

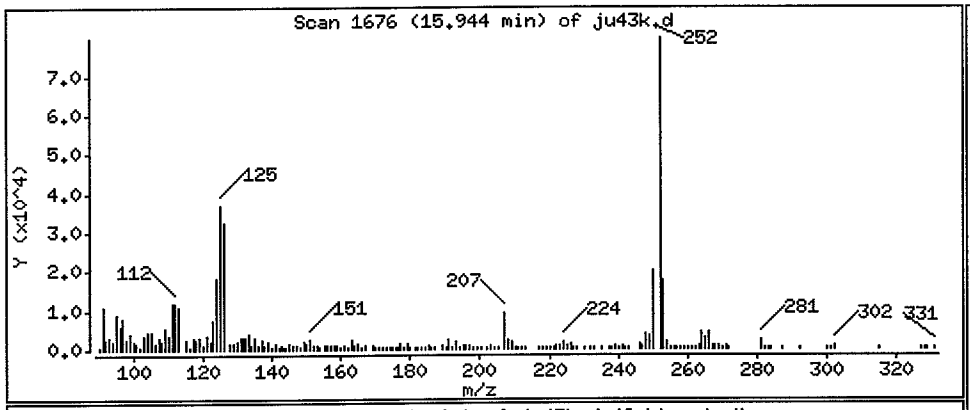
Operator: VTS

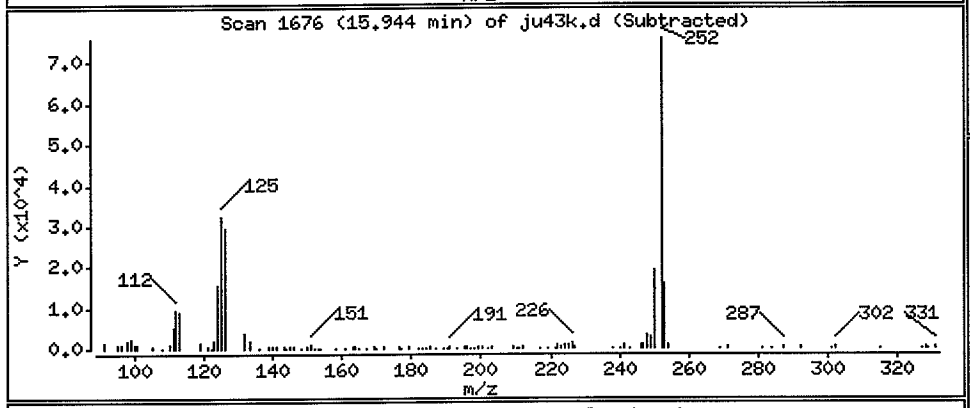
Column phase: ZB-5

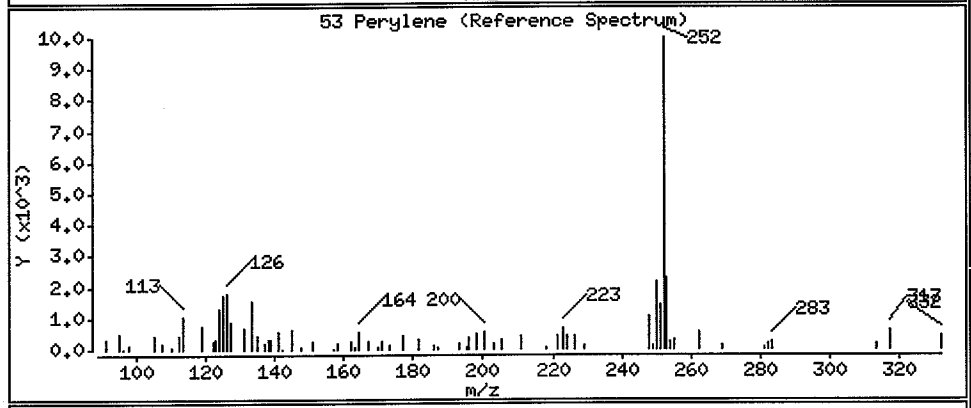
Column diameter: 0.25

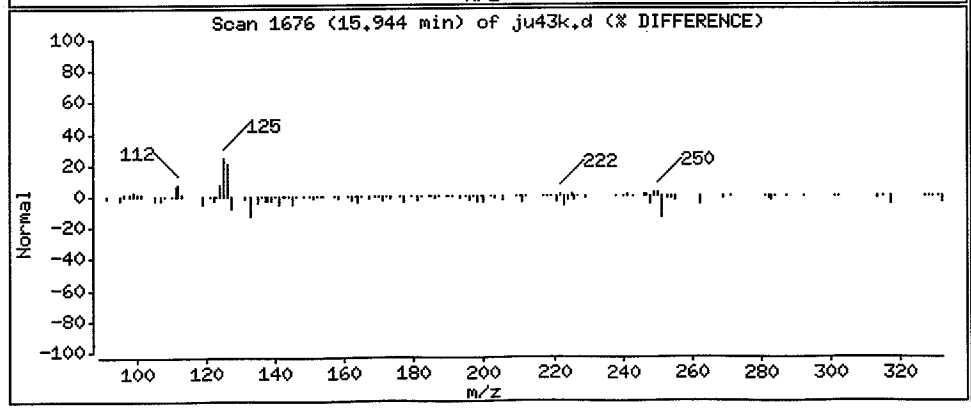
53 Perylene

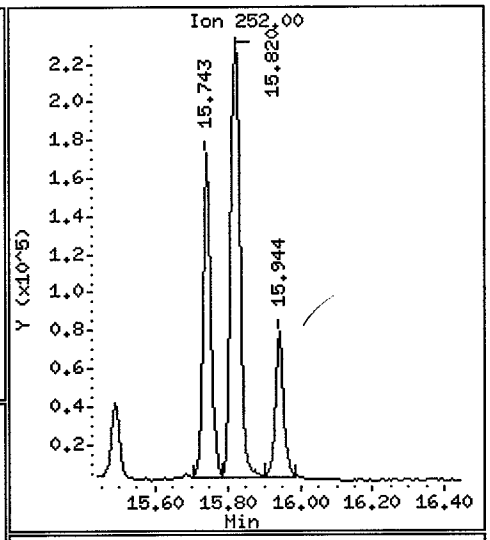
Concentration: 68.76 ug/kg

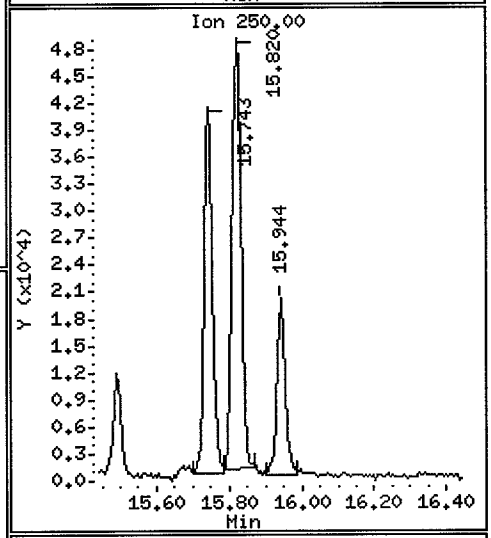


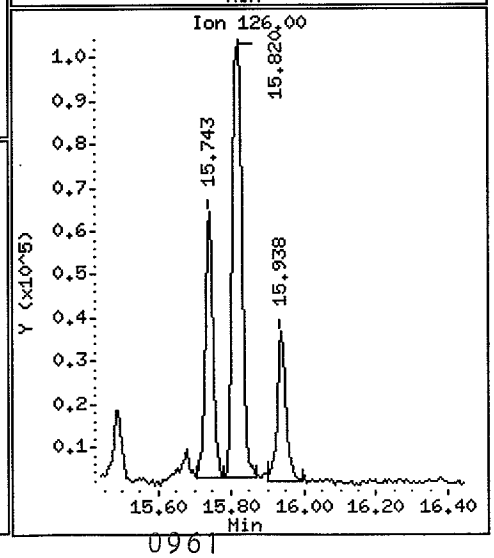












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-05-K
SAMPLE

Lab Sample ID: JU43L
LIMS ID: 06-15856
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 19:38
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 28.0%
pH: 6.3

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**	**11**
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	**Phenanthrene**	**5.0**	**8.9**
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	**Fluoranthene**	**5.0**	**5.9**
129-00-0	**Pyrene**	**5.0**	**6.4**
56-55-3	**Benzo(a)anthracene**	**5.0**	**4.0 J**
218-01-9	**Chrysene**	**5.0**	**4.5 J**
205-99-2	**Benzo(b)fluoranthene**	**5.0**	**4.0 J**
207-08-9	**Benzo(k)fluoranthene**	**5.0**	**4.0 J**
50-32-8	**Benzo(a)pyrene**	**5.0**	**5.0**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.0**	**2.5 J**
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**	**36**
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	87.3%
d14-Dibenzo(a,h)anthracen	85.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43l.d
Lab Smp Id: JU43L Client Smp ID: T4-S3-05-K
Inj Date : 12-SEP-2006 19:38
Operator : VTS Inst ID: nt1.i
Smp Info : JU43L
Misc Info : 06-15856
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 14
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	14.00000	Weight of sample extracted (g)
M	28.00000	% 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	6.811	6.808	(1.000)	341462	2.00000	
2 Naphthalene	128	Compound Not Detected.					
$ 3 2-Methylnaphthalene-d10	152	7.568	7.564	(1.111)	221635	2.61760	129.8
4 2-Methylnaphthalene	142	Compound Not Detected.					
5 1-Methylnaphthalene	142	Compound Not Detected.					
7 Acenaphthylene	152	Compound Not Detected.					
* 8 Acenaphthene-d10	164	8.868	8.871	(1.000)	166459	2.00000	
9 Acenaphthene	153	8.909	8.906	(1.005)	18505	0.22404	11.11
10 Dibenzofuran	168	Compound Not Detected.					
11 Fluorene	166	Compound Not Detected.					
* 15 Phenanthrene-d10	188	10.682	10.679	(1.000)	208588	2.00000	
16 Phenanthrene	178	10.706	10.709	(1.002)	20069	0.17749	8.804
17 Anthracene	178	Compound Not Detected.					
19 Fluoranthene	202	12.201	12.198	(1.142)	11840	0.12268	6.085

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.485	12.488	(0.893)	15214	0.13267	6.581
	22 Benzo(a)anthracene	228	13.962	13.965	(0.998)	7516	0.07694	3.816
*	23 Chrysene-d12	240	13.986	13.989	(1.000)	162936	2.00000	
	24 Chrysene	228	14.015	14.018	(1.002)	8204	0.08937	4.433
	28 Benzo(b)fluoranthene	252	15.339	15.336	(0.965)	15516	~~0.16~~703	8.285 (M)
	29 Benzo(k)fluoranthene	252	15.339	15.366	(0.965)	15516	~~0.15~~993	7.933 (M)
	30 Benzo(a)pyrene	252	15.824	15.821	(0.995)	8334	0.09946	4.934
*	31 Perylene-d12	264	15.901	15.898	(1.000)	164050	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.810	17.813	(1.120)	4904	0.05452	2.704
$	32 Dibenz(a,h)anthrancene-d14	292	17.733	17.736	(1.115)	137311	2.55420	126.7
	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	15.741	15.744	(0.990)	5821	0.06236	3.093
	53 Perylene	252	15.942	15.939	(1.003)	62586	0.71855	35.64

QC Flag Legend

M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43l.d
Lab Smp Id: JU43L
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15856

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-05-K
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	341462	-0.03
8 Acenaphthene-d10	169375	84688	338750	166459	-1.72
15 Phenanthrene-d10	232185	116092	464370	208588	-10.16
23 Chrysene-d12	179856	89928	359712	162936	-9.41
31 Perylene-d12	175373	87686	350746	164050	-6.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.05
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.03
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.03
23 Chrysene-d12	13.99	13.49	14.49	13.99	-0.02
31 Perylene-d12	15.90	15.40	16.40	15.90	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

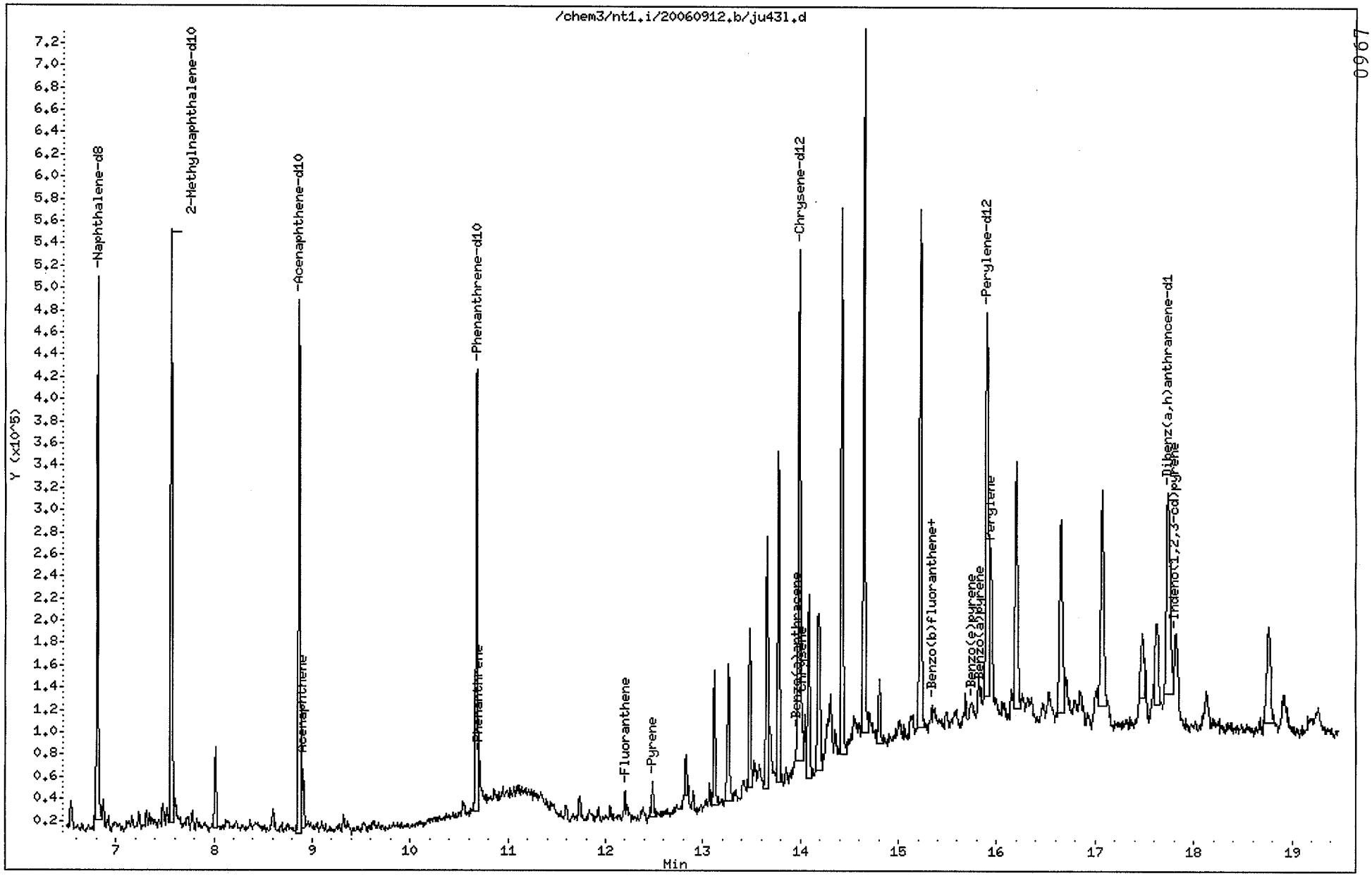
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43L
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15856

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-05-K
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.8	129.8	87.25	32-97
$ 32 Dibenz(a,h)anthran	148.8	126.7	85.14	21-105

Data File: /chem3/nt1.i/20060912.b/ju431.d
Date : 12-SEP-2006 19:38
Client ID: T4-S3-05-K
Sample Info: JU43L
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

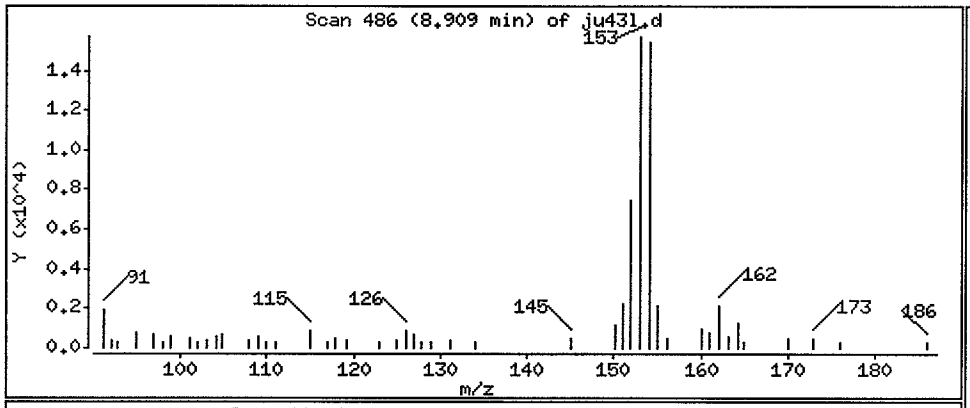
Operator: VTS

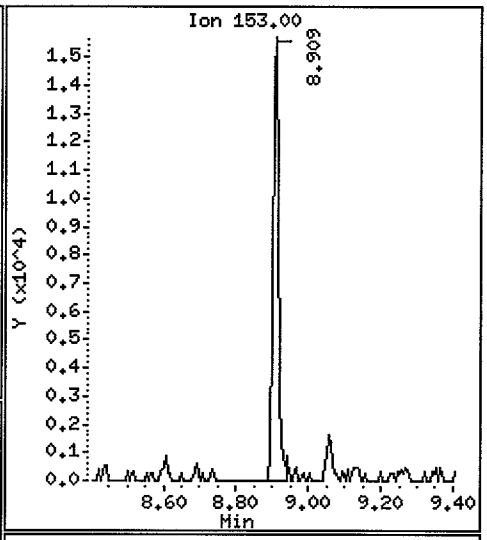
Column phase: ZB-5

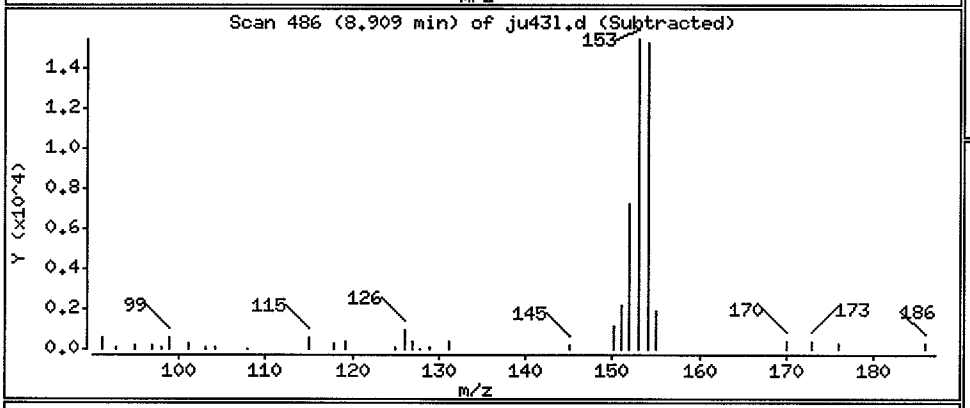
Column diameter: 0.25

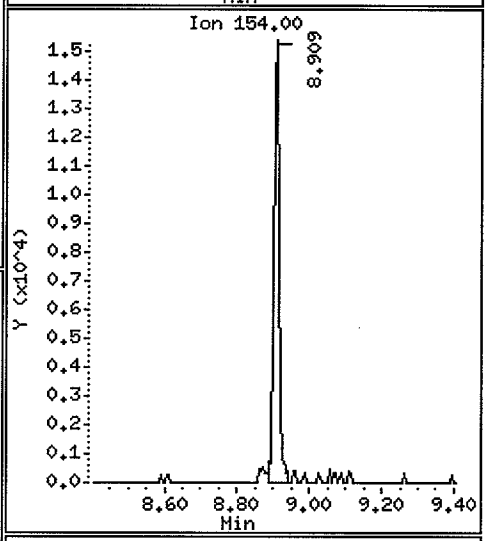
9 Acenaphthene

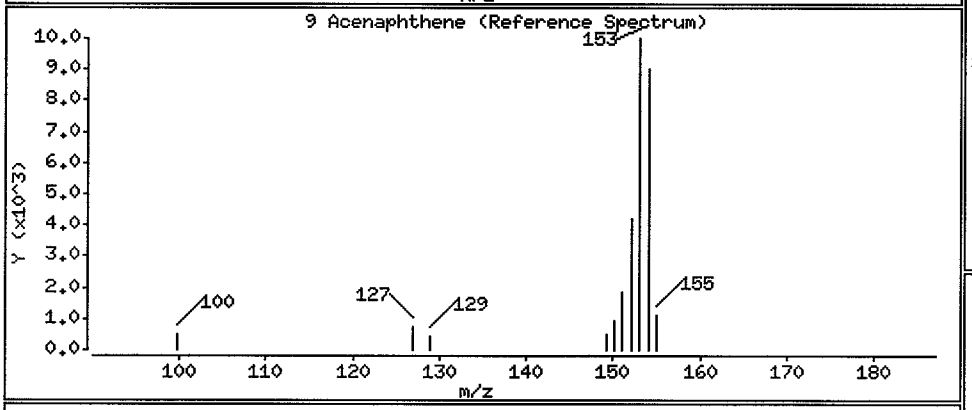
Concentration: 11.11 ug/kg

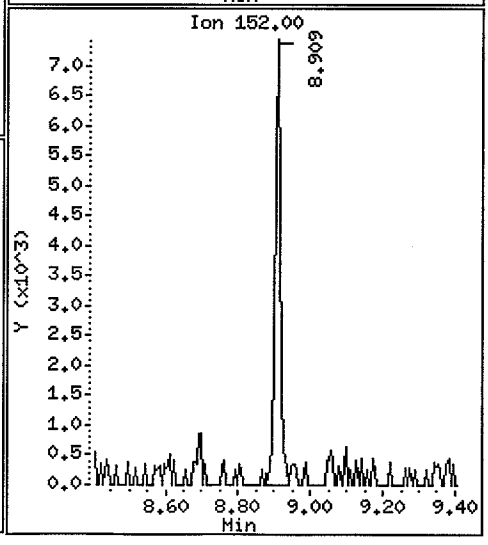


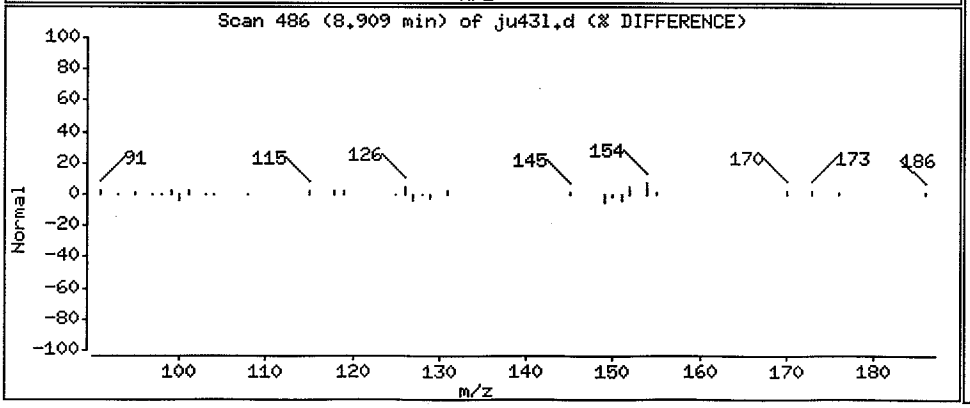












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

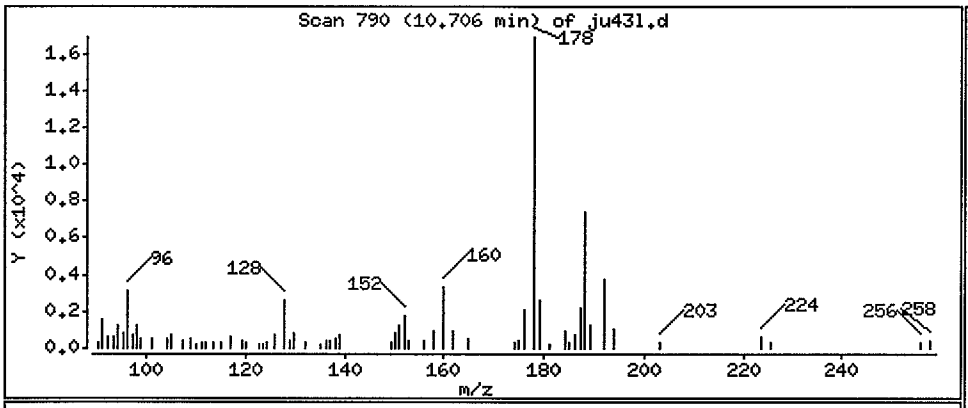
Operator: VTS

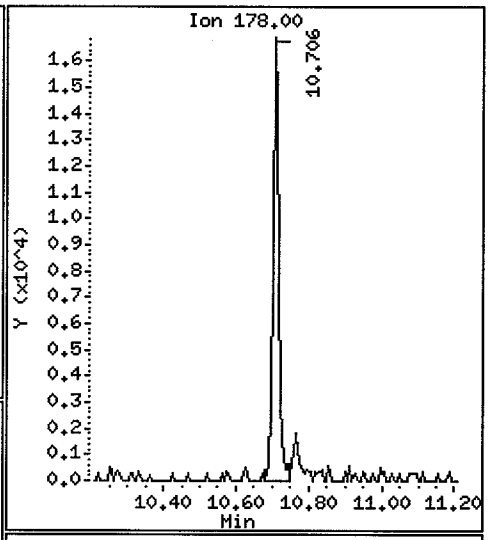
Column phase: ZB-5

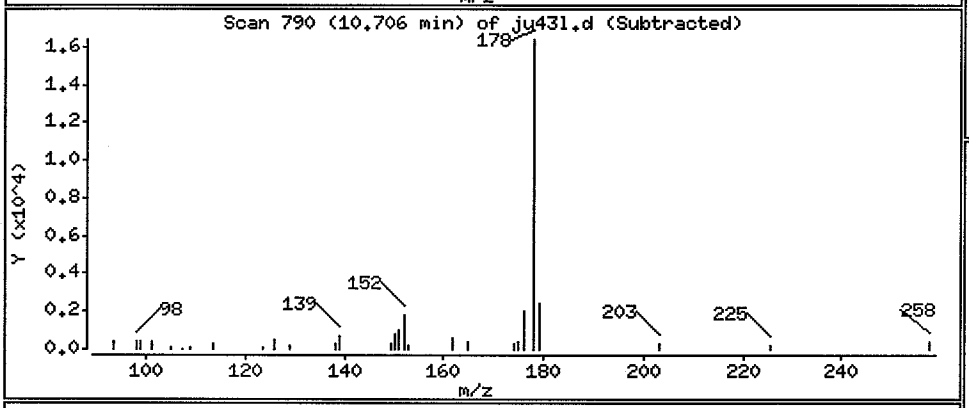
Column diameter: 0.25

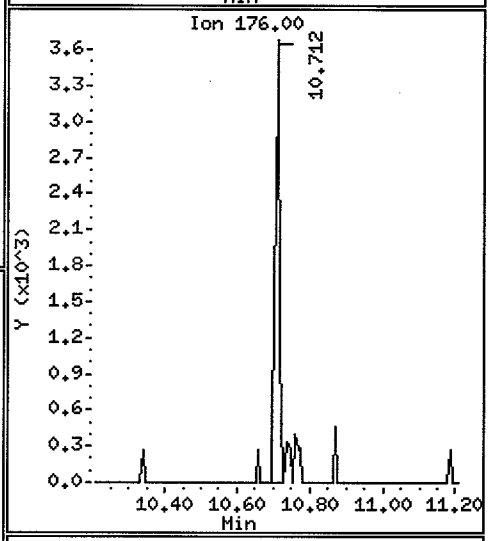
16 Phenanthrene

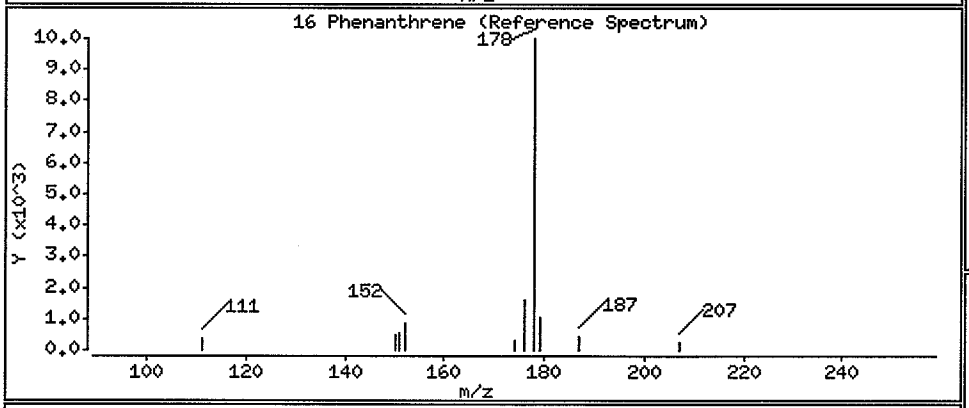
Concentration: 8.804 ug/kg

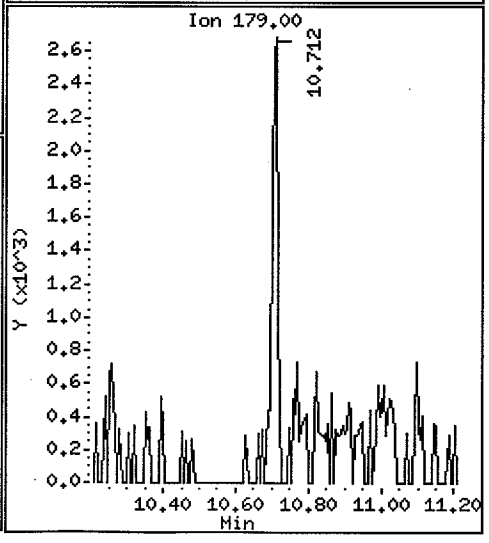


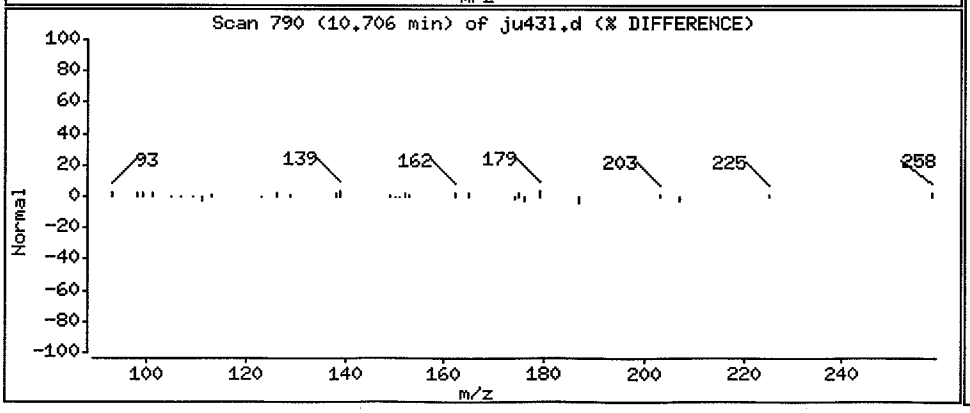












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

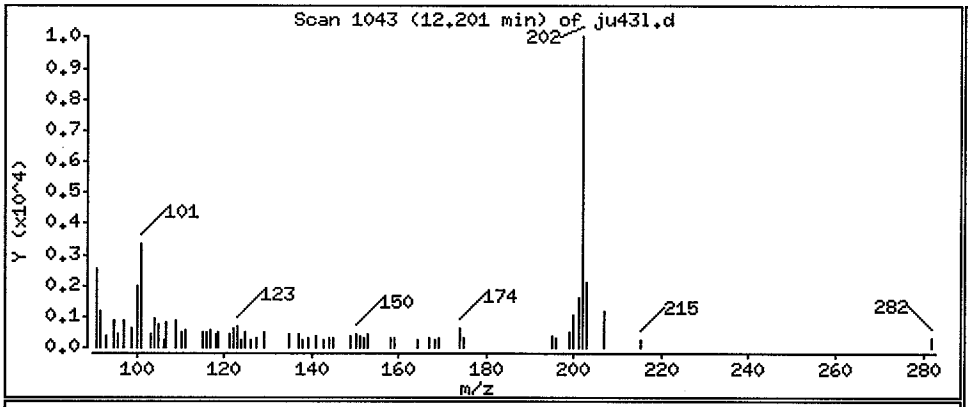
Operator: VTS

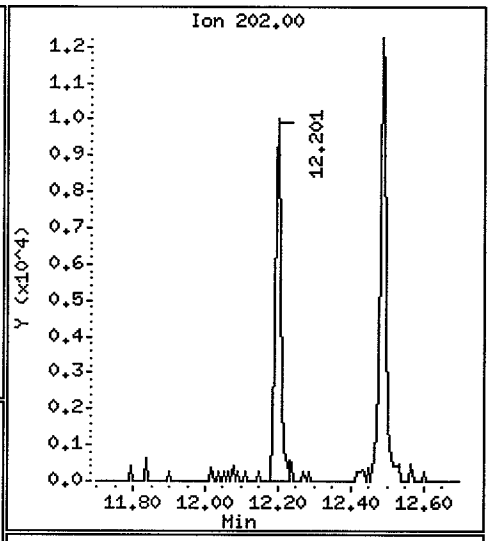
Column phase: ZB-5

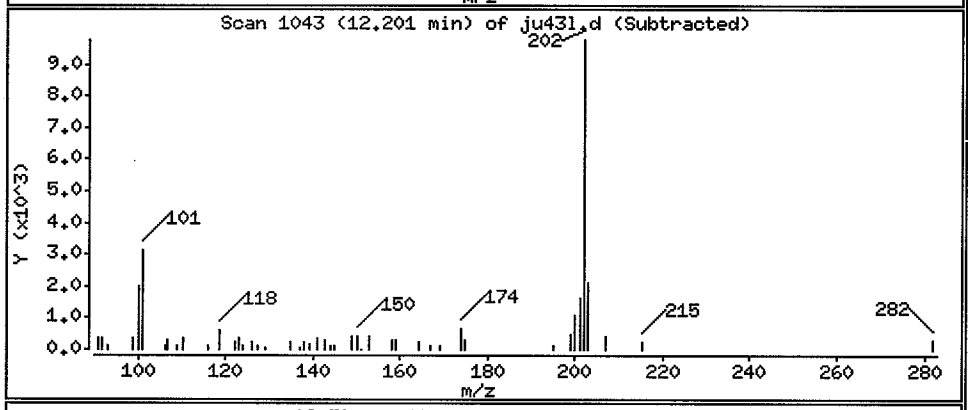
Column diameter: 0.25

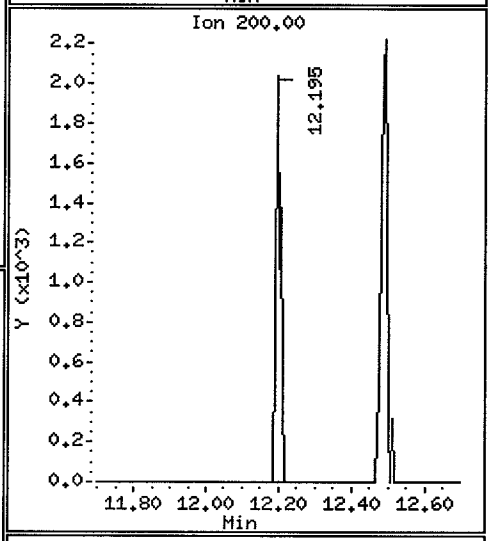
19 Fluoranthene

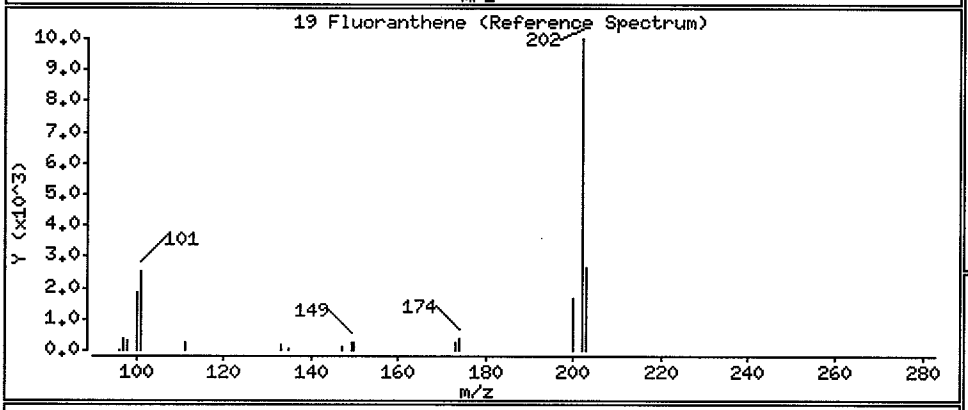
Concentration: 6.085 ug/kg

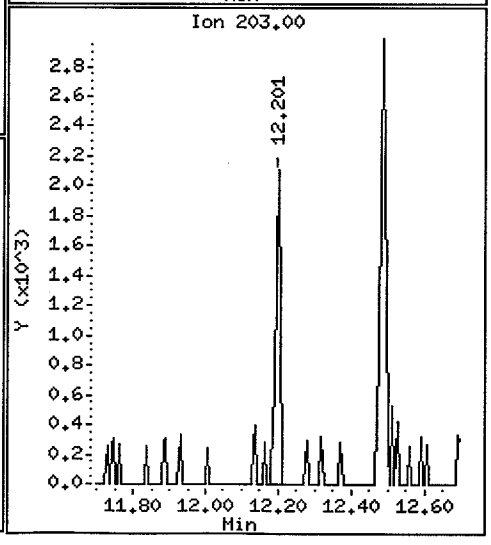


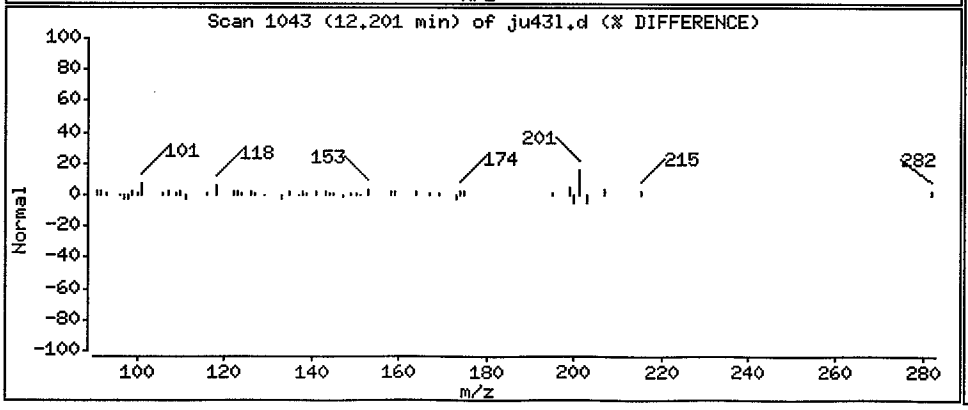












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

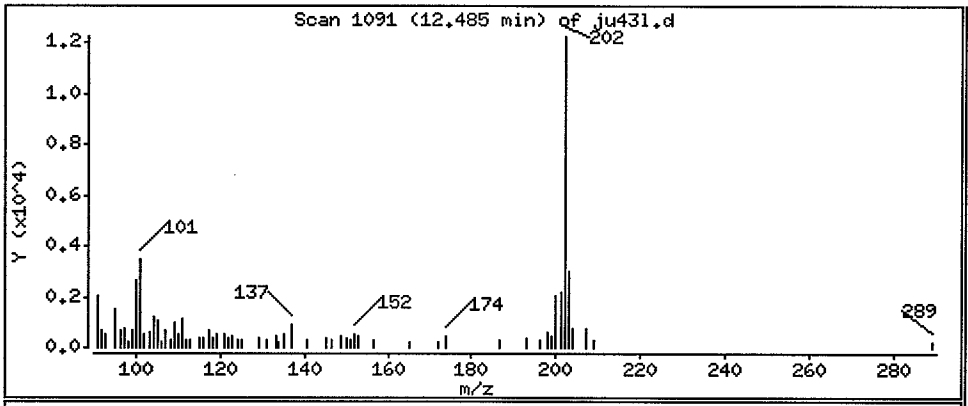
Operator: VTS

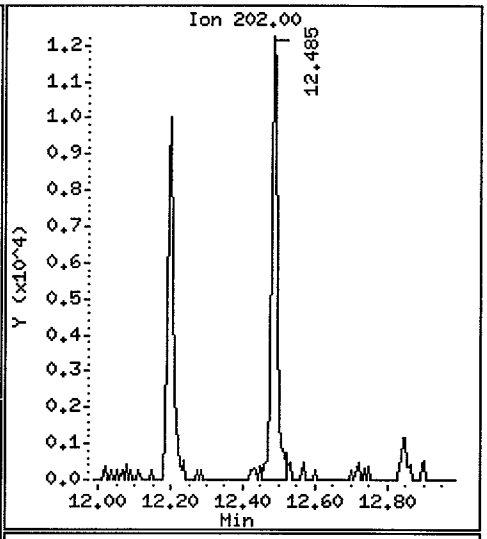
Column phase: ZB-5

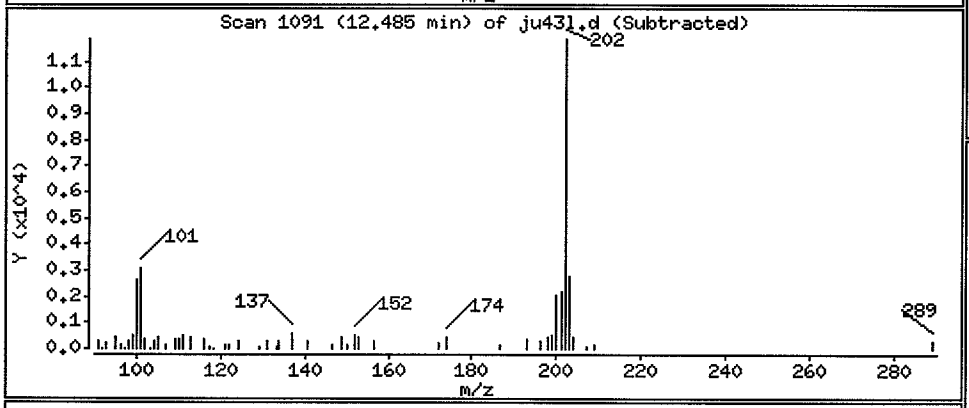
Column diameter: 0.25

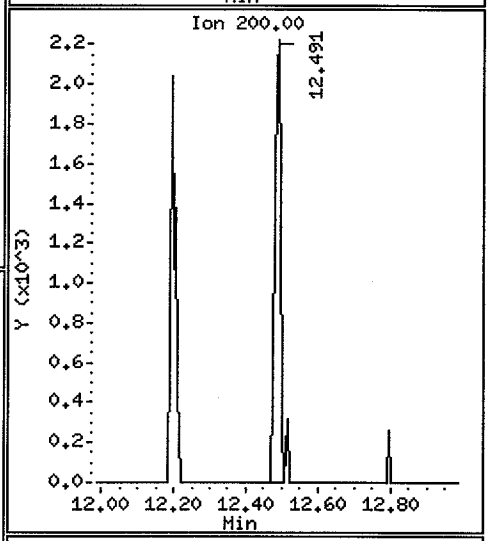
20 Pyrene

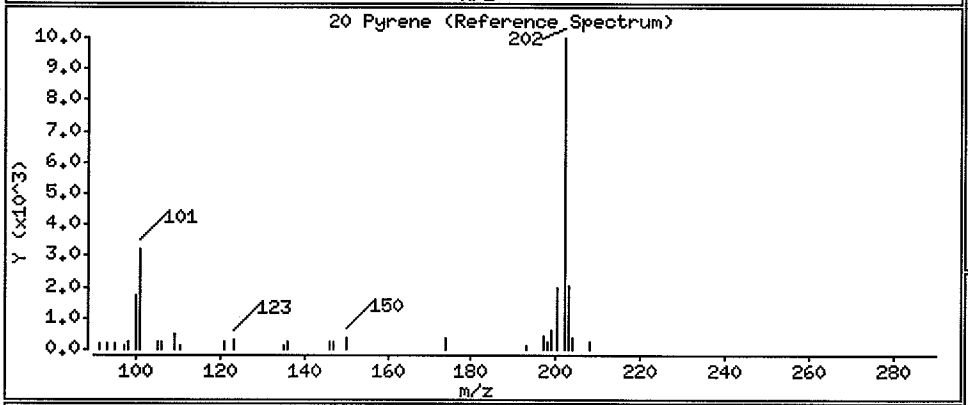
Concentration: 6.581 ug/kg

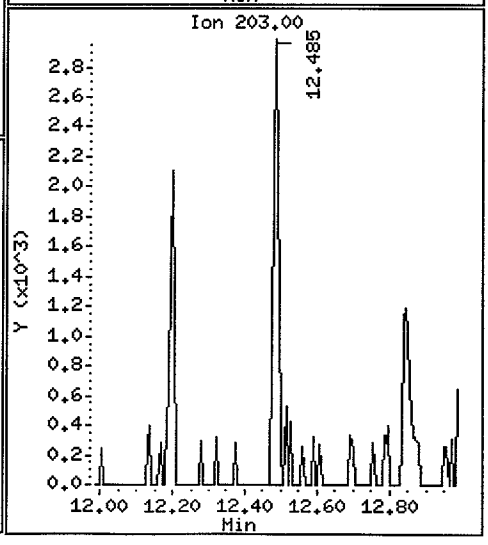


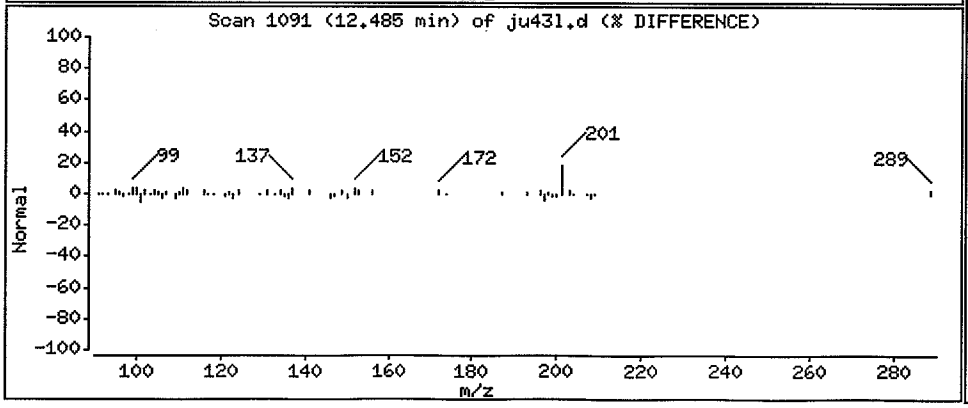












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

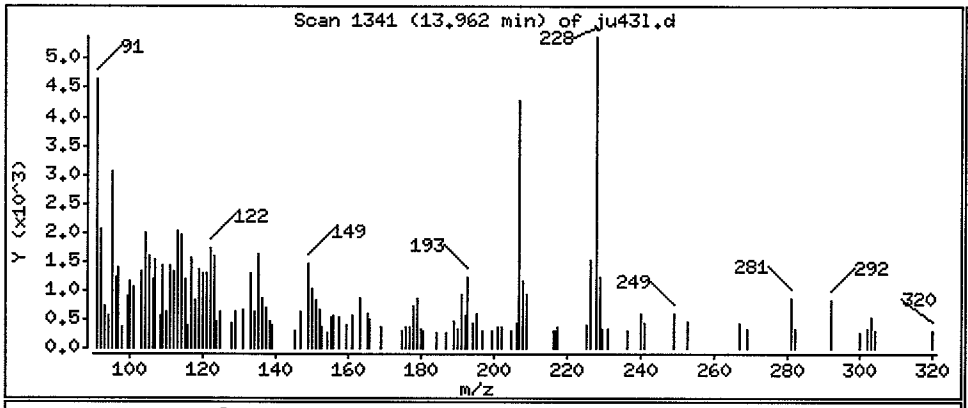
Operator: VTS

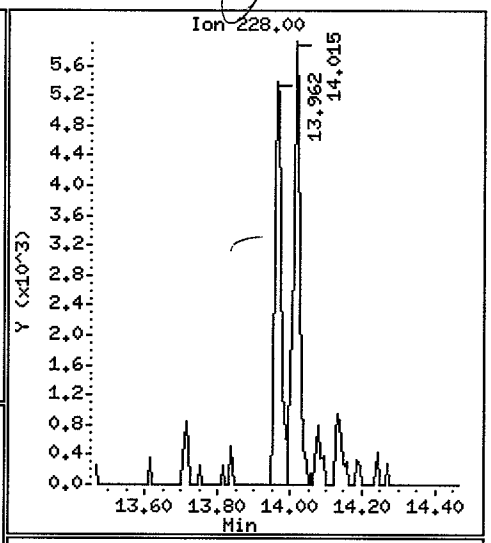
Column phase: ZB-5

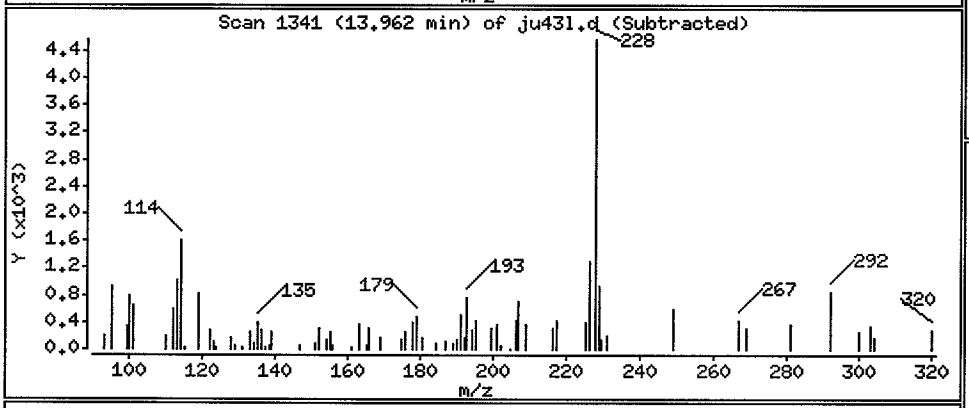
Column diameter: 0.25

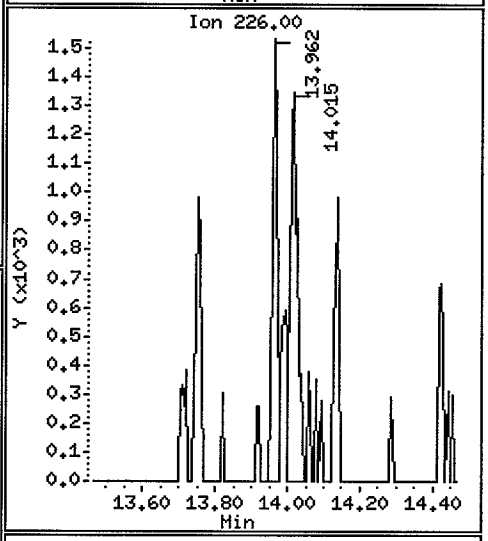
22 Benzo(a)anthracene

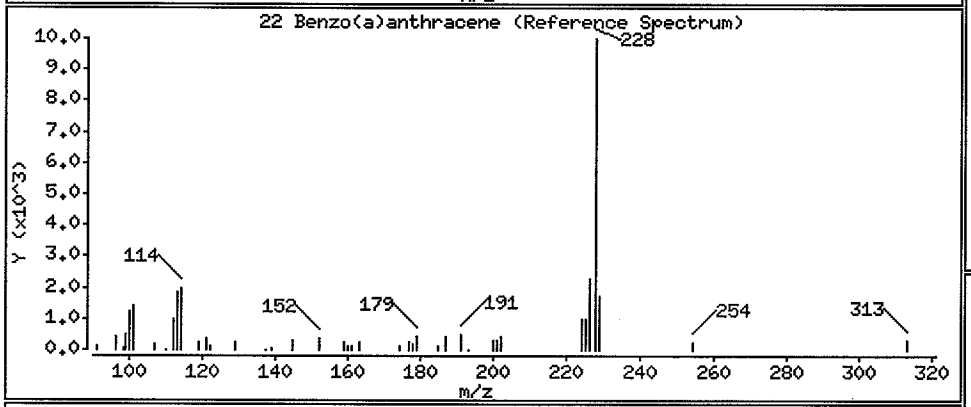
Concentration: 3.816 ug/kg

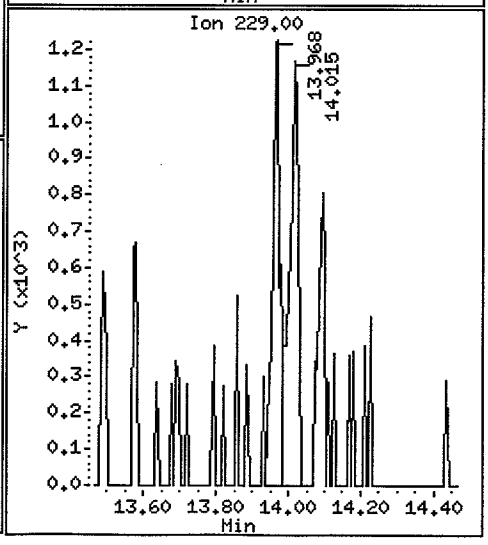


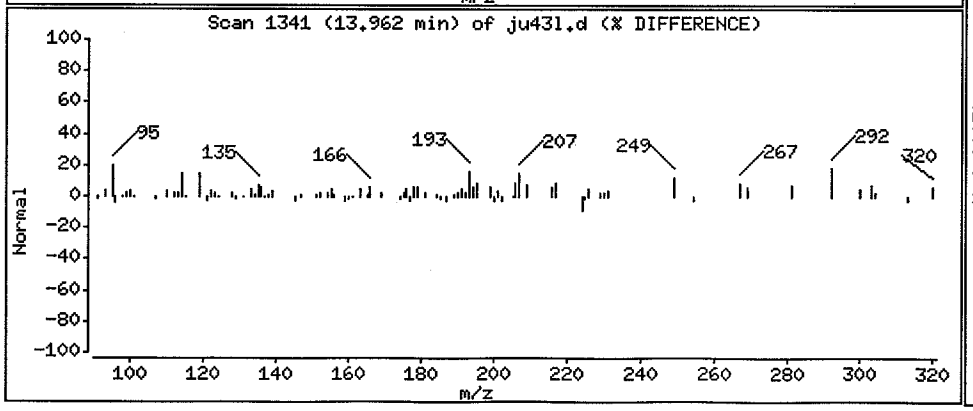












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

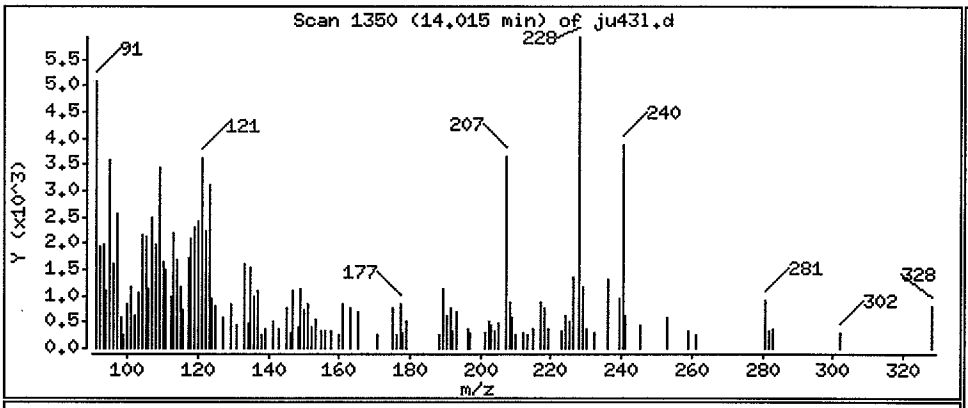
Operator: VTS

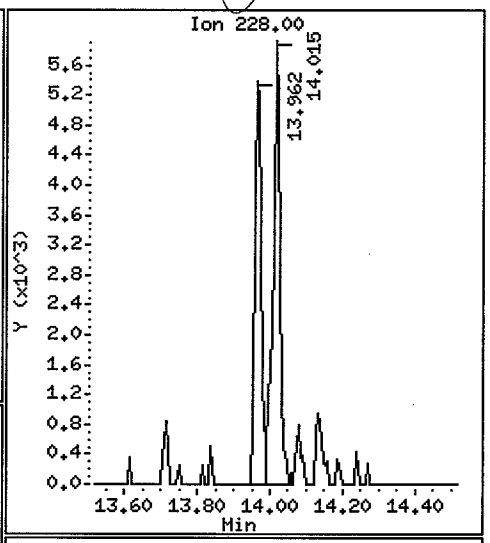
Column phase: ZB-5

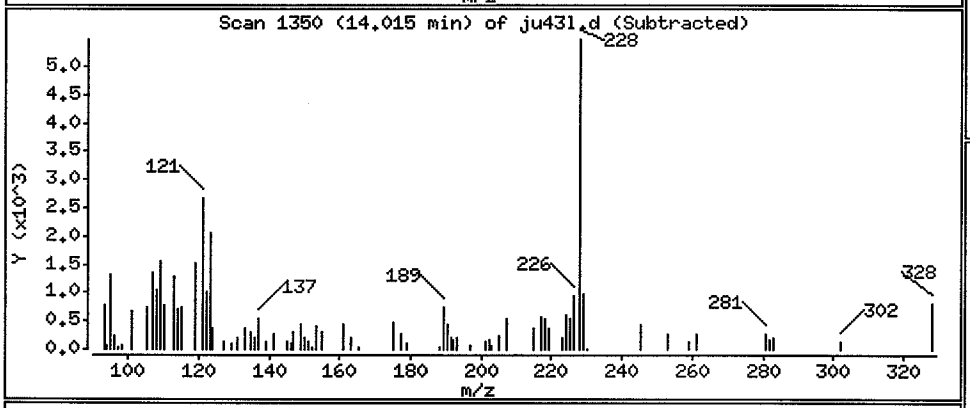
Column diameter: 0.25

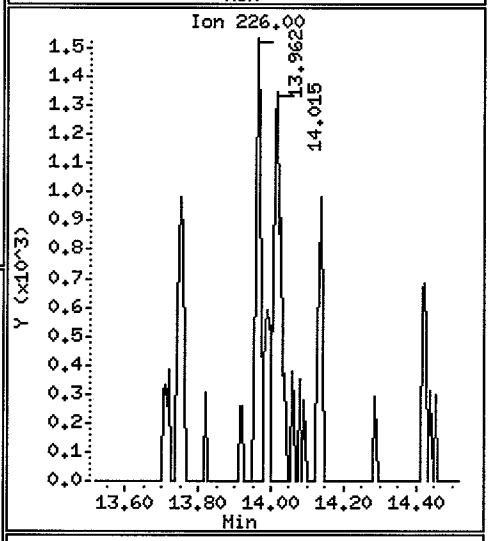
24 Chrysene

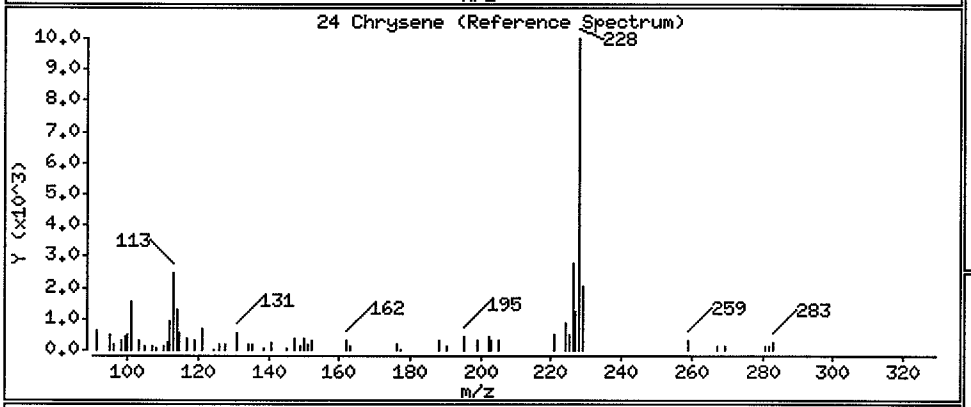
Concentration: 4.433 ug/kg

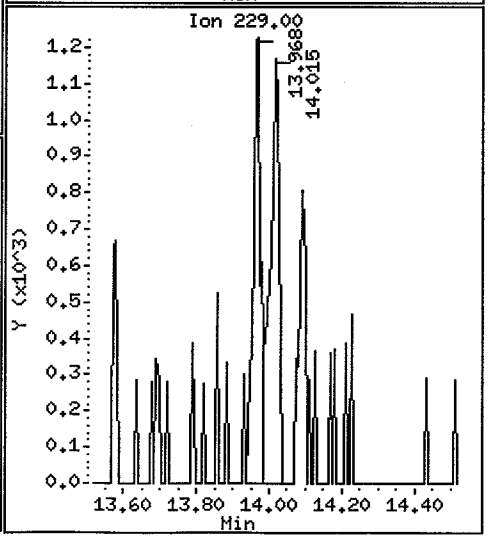


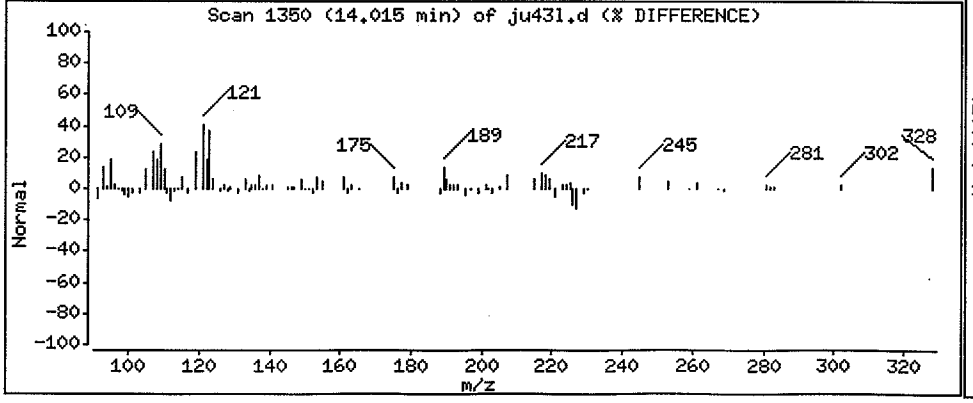












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

Operator: VTS

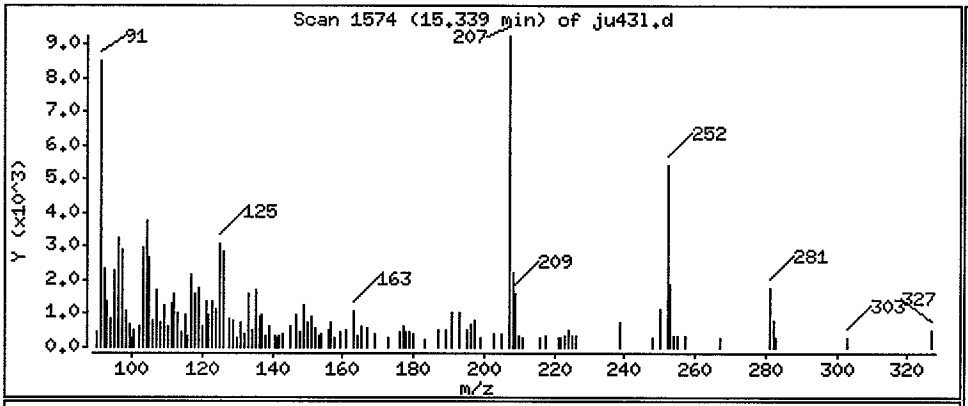
Column phase: ZB-5

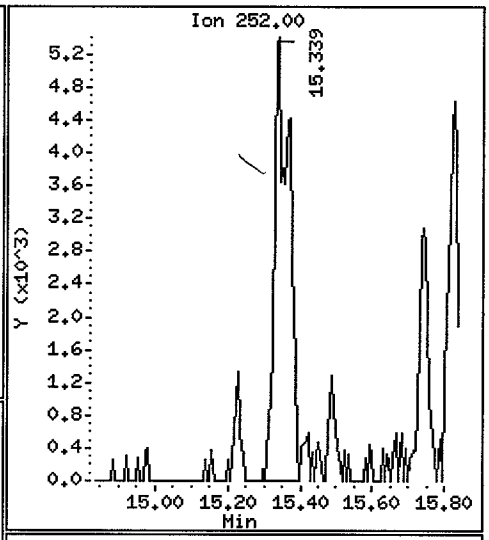
Column diameter: 0.25

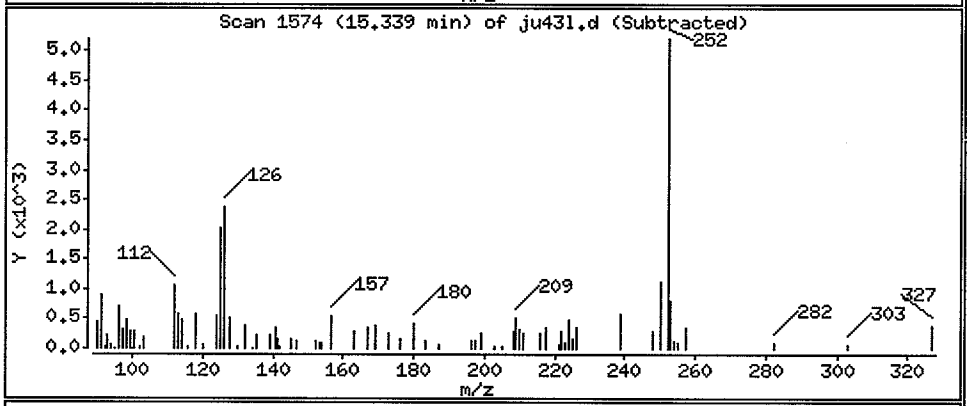
28 Benzo(b)fluoranthene

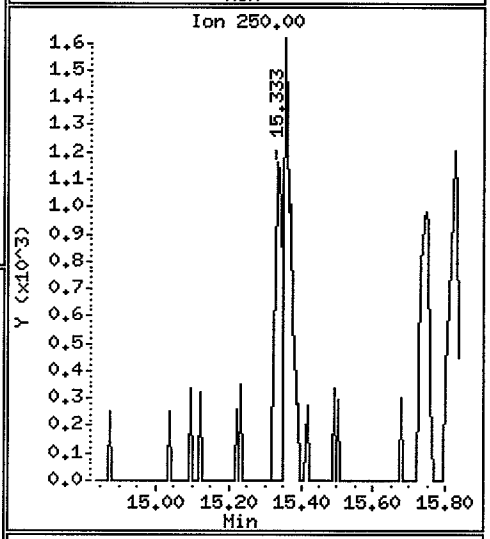
Concentration: 8.285 ug/kg (W)

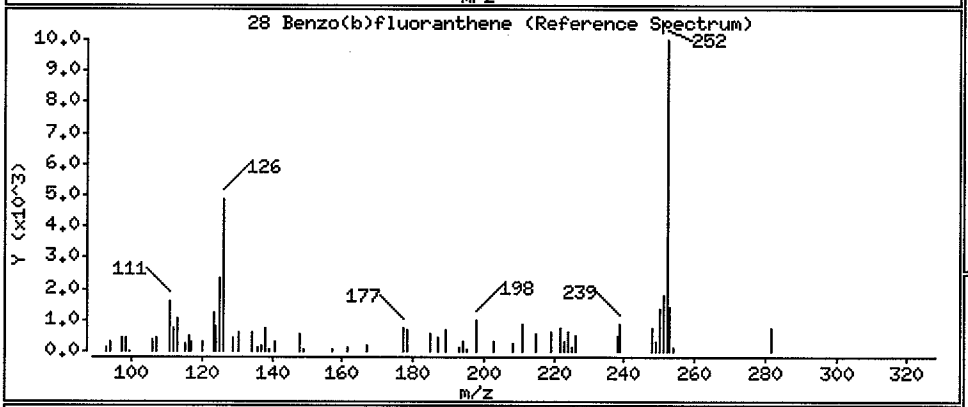
JLR

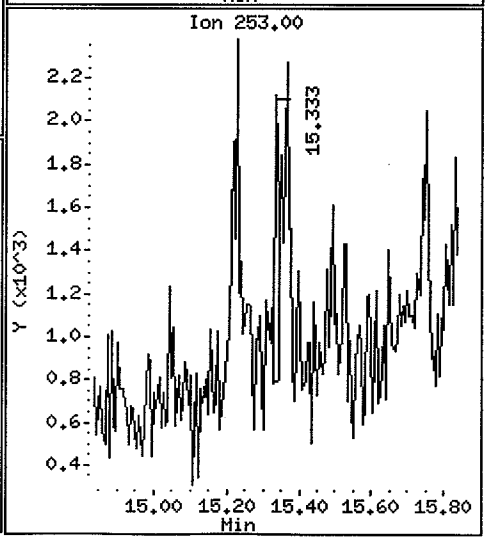


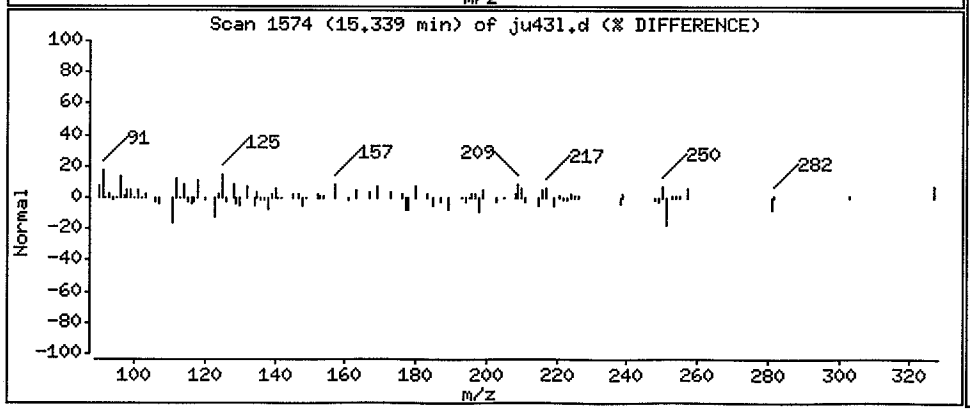












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

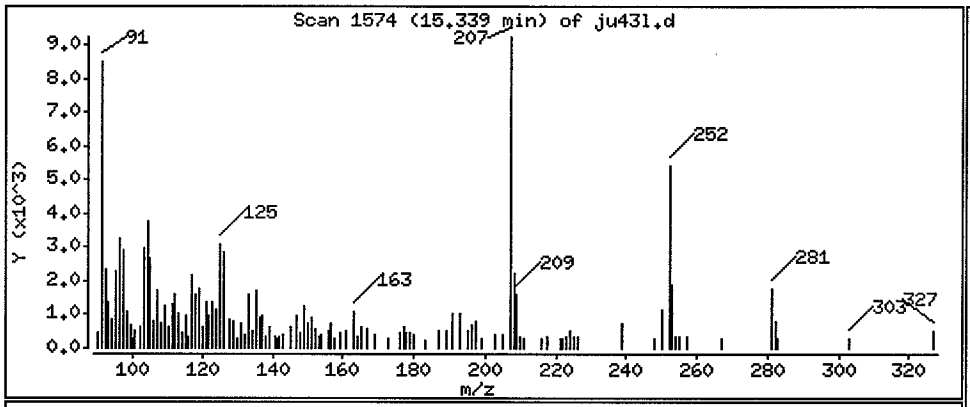
Operator: VTS

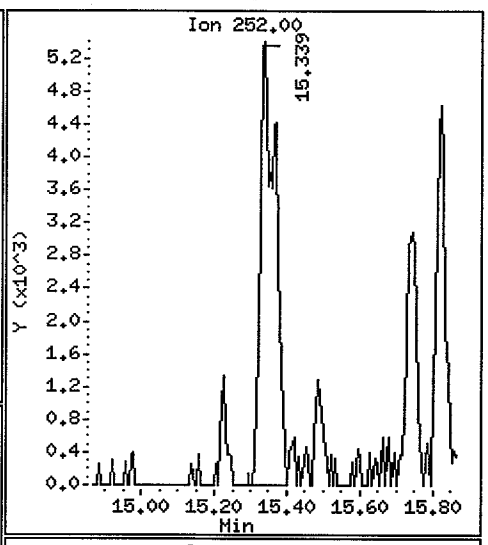
Column phase: ZB-5

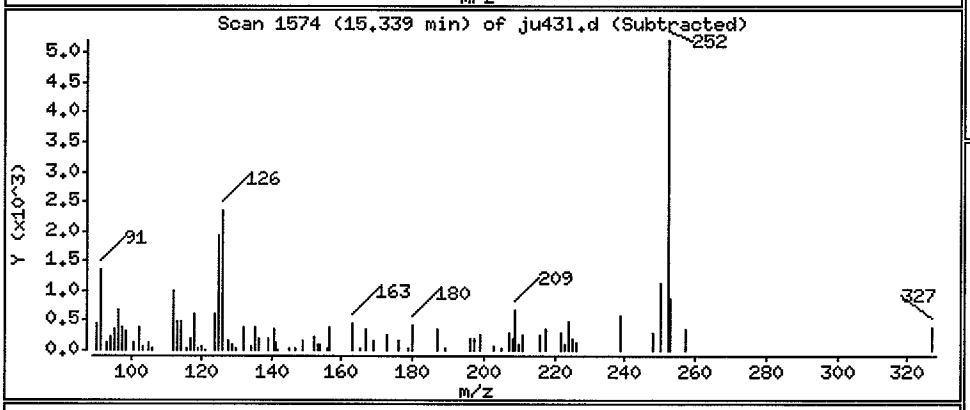
Column diameter: 0.25

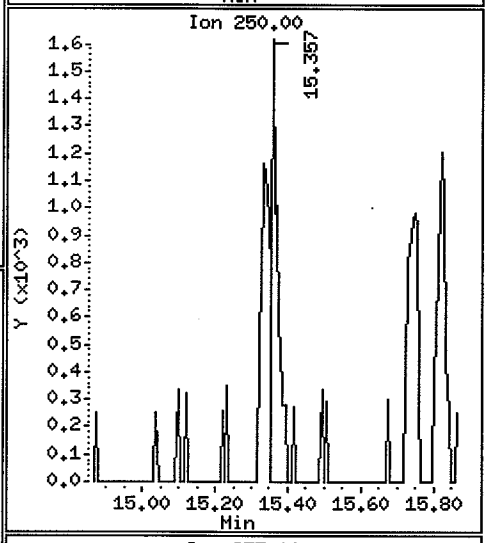
29 Benzo(k)fluoranthene

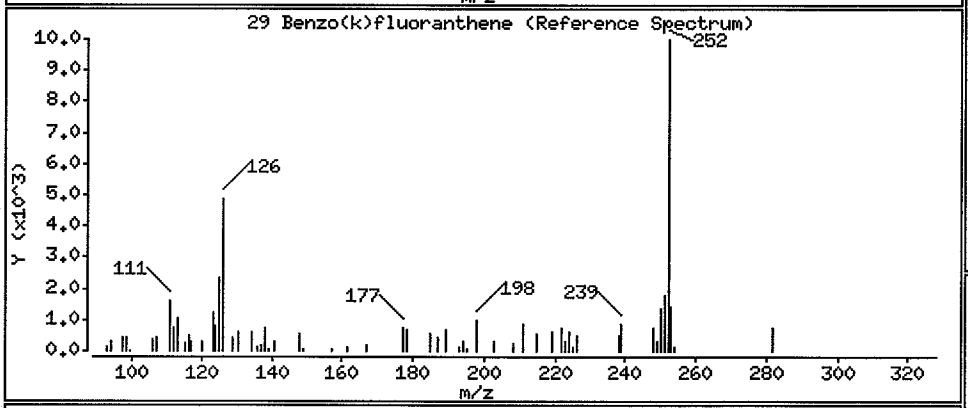
Concentration: 7.933 ug/kg

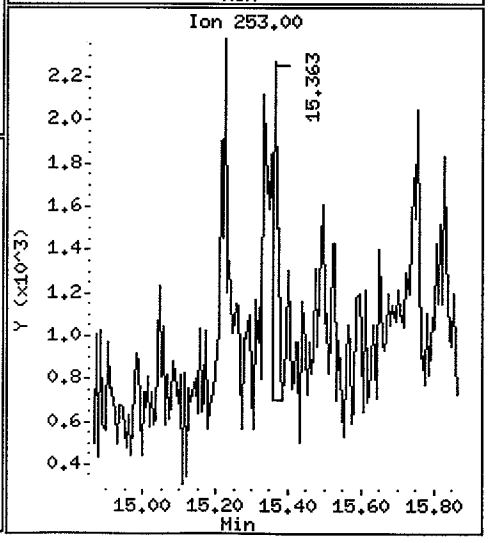


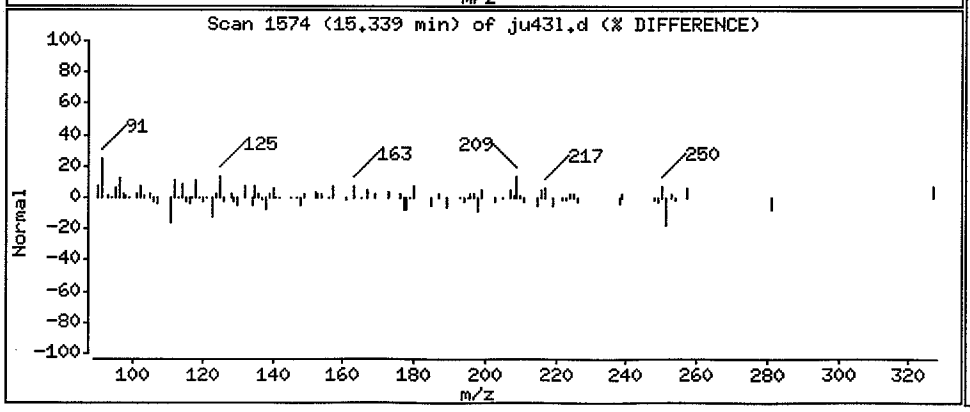












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

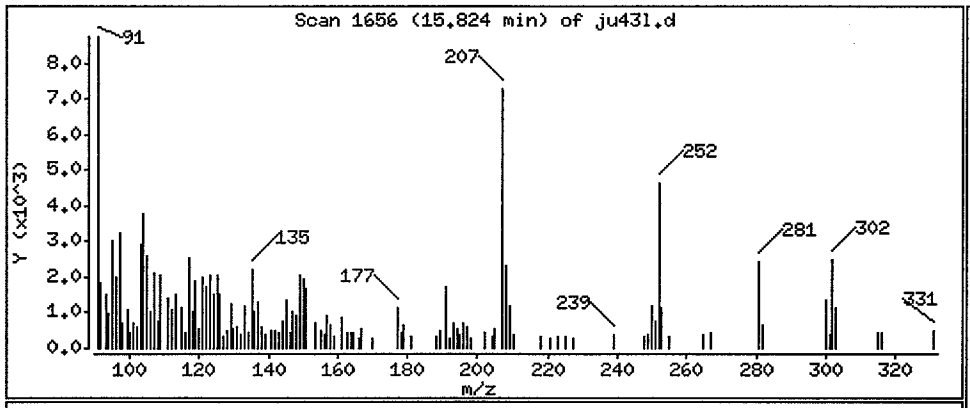
Operator: VTS

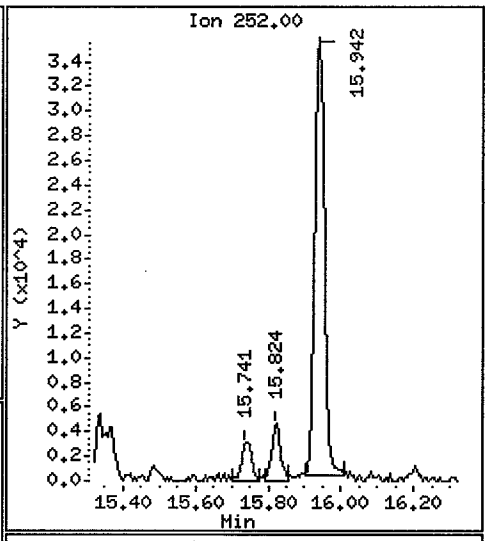
Column phase: ZB-5

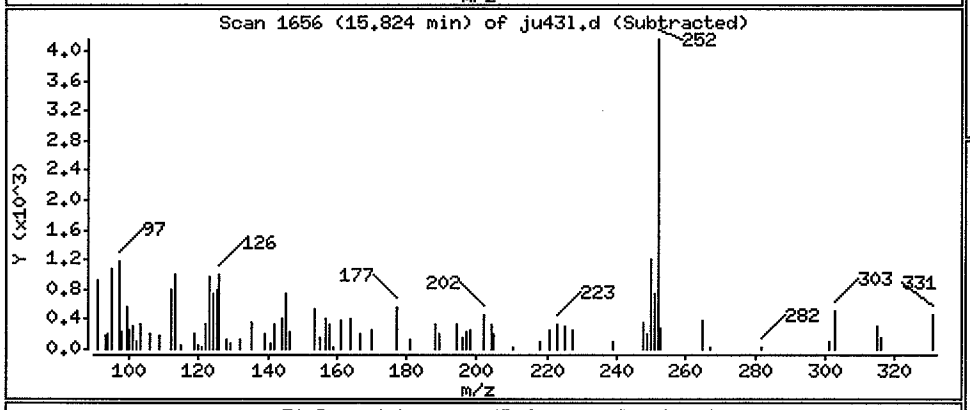
Column diameter: 0.25

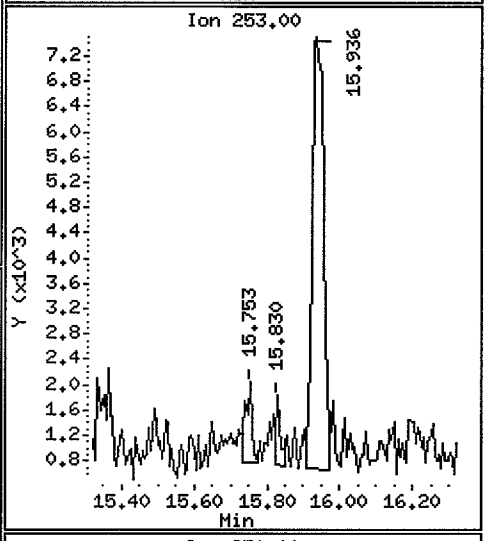
30 Benzo(a)pyrene

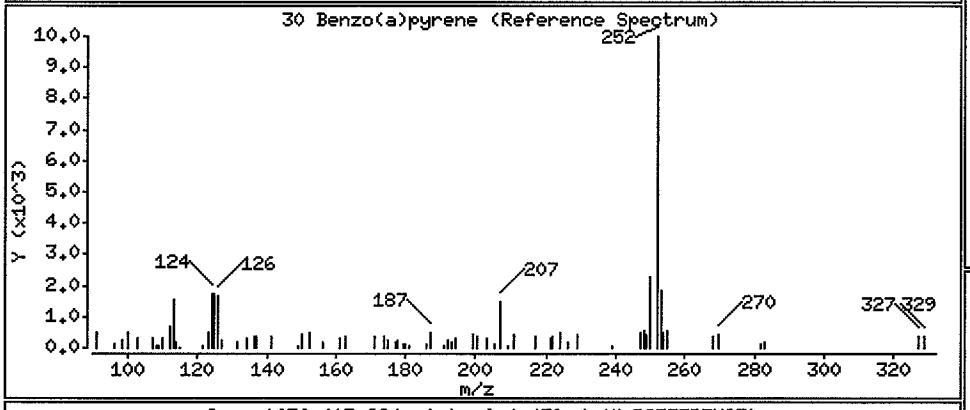
Concentration: 4.934 ug/kg

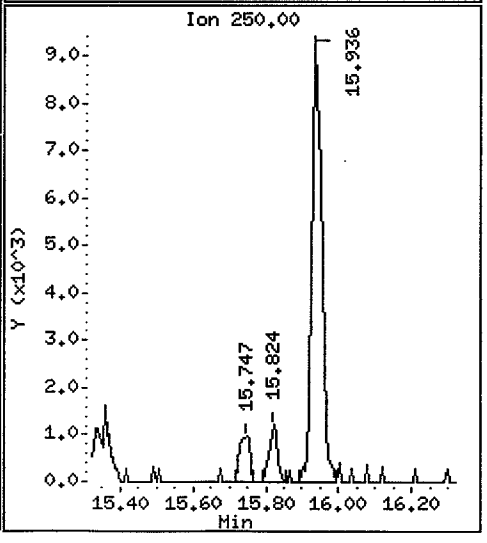


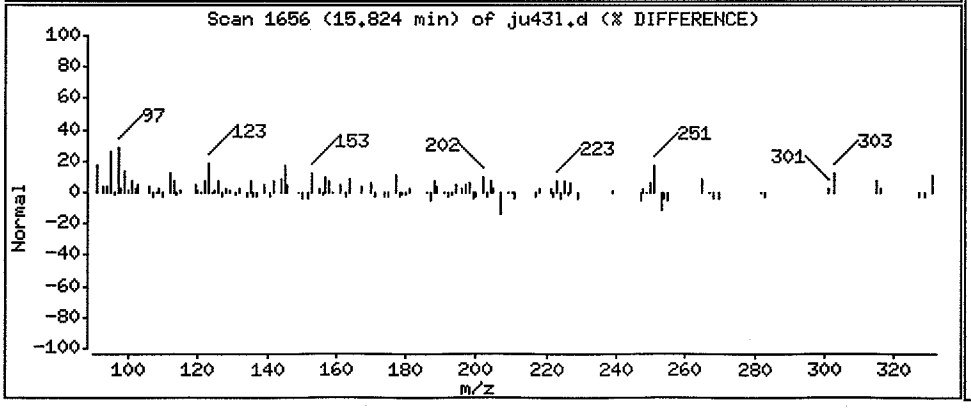












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

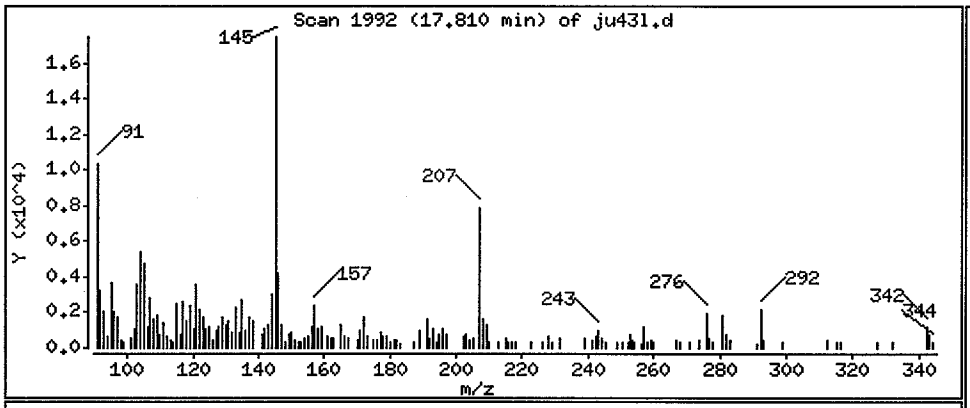
Operator: VTS

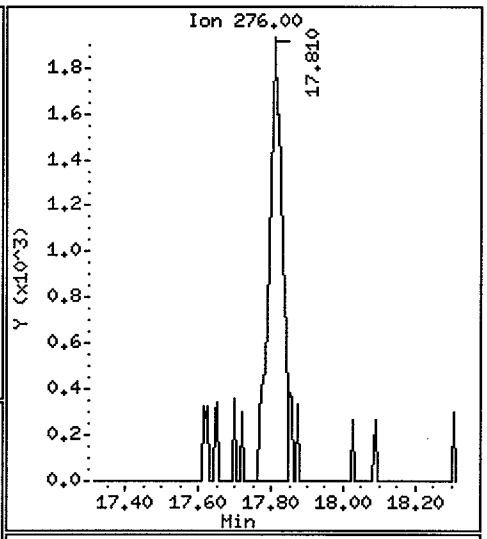
Column phase: ZB-5

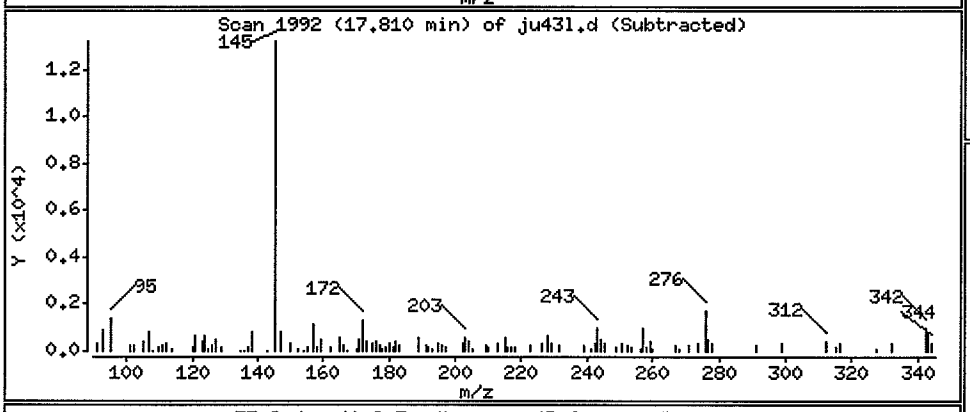
Column diameter: 0.25

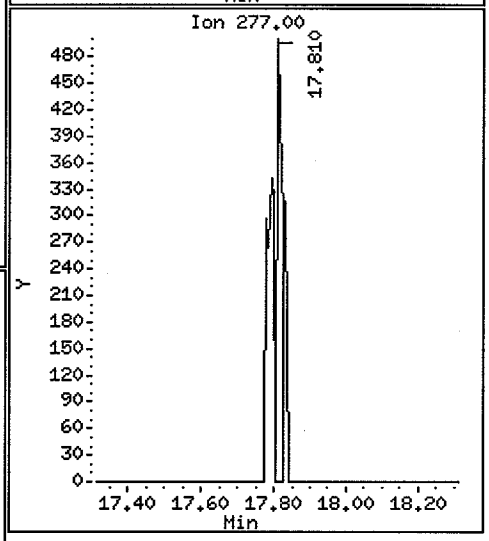
33 Indeno(1,2,3-cd)pyrene

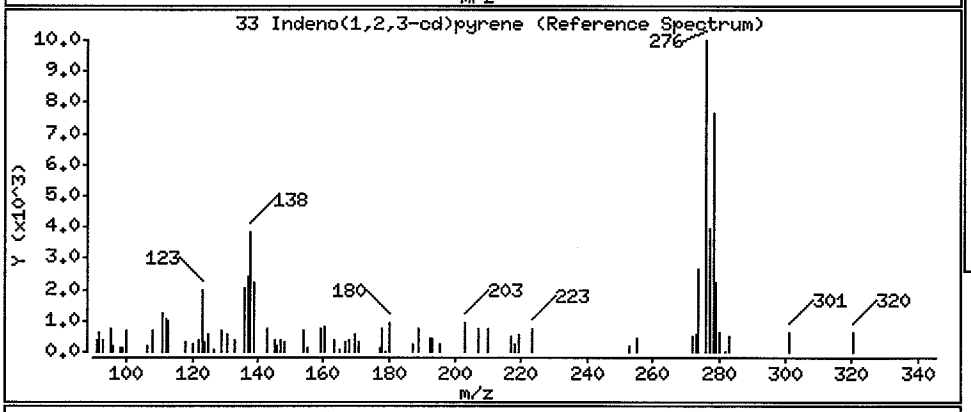
Concentration: 2.704 ug/kg

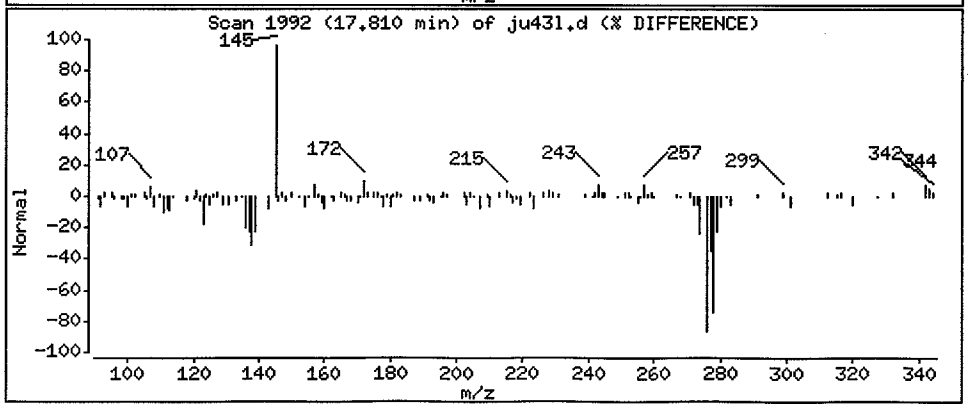












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

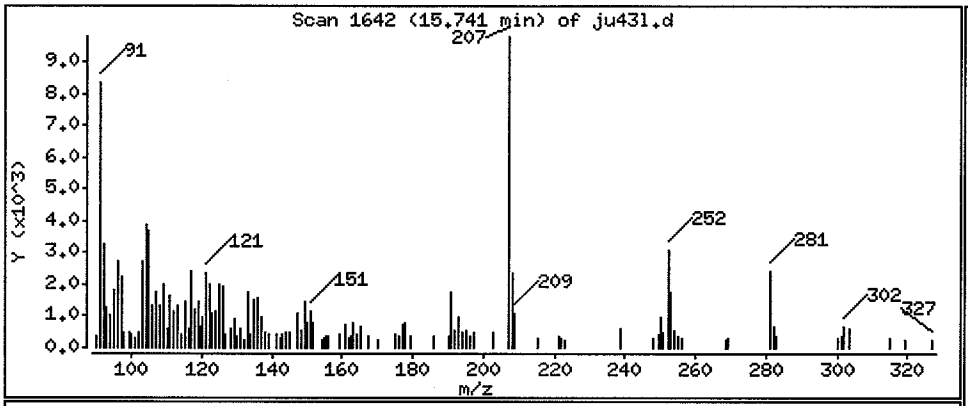
Operator: VTS

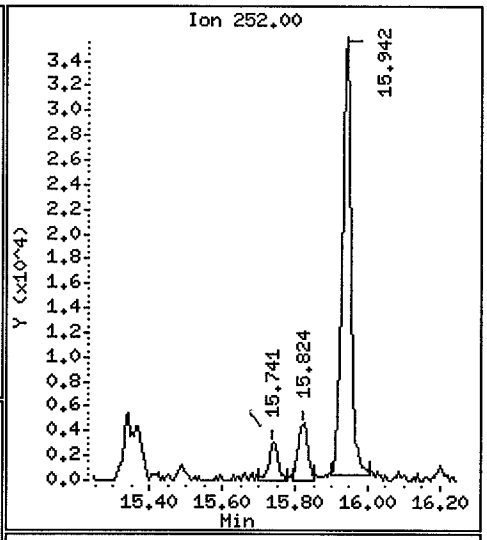
Column phase: ZB-5

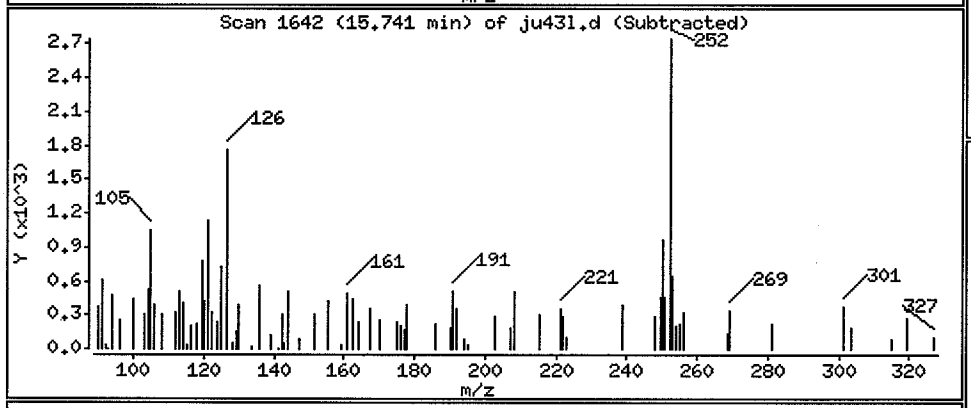
Column diameter: 0.25

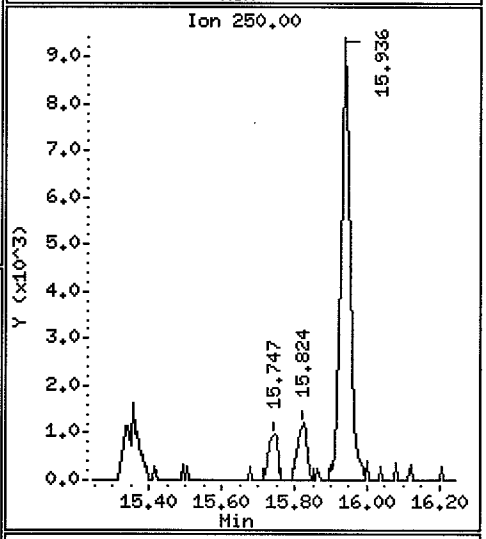
52 Benzo(e)pyrene

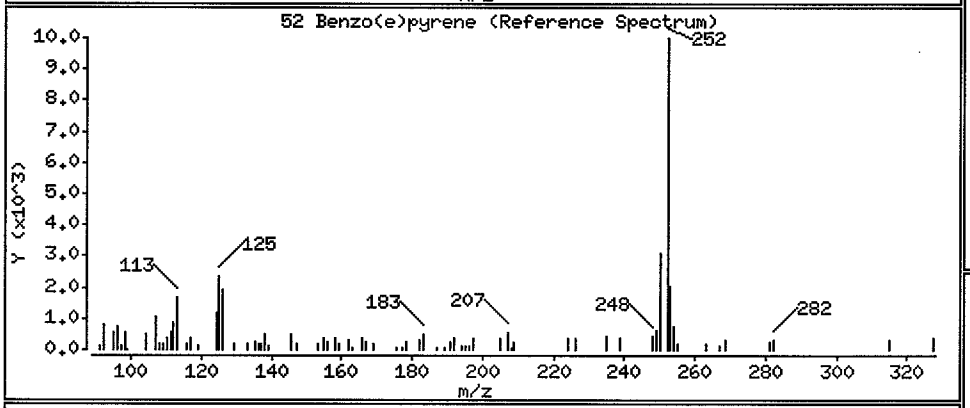
Concentration: 3.093 ug/kg

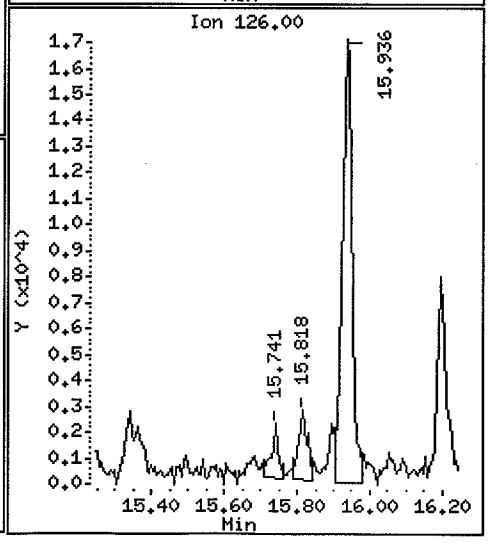


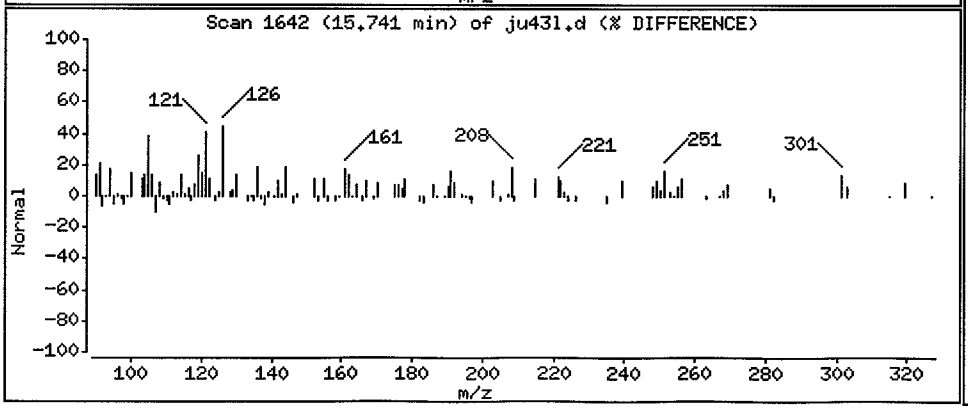












Data File: /chem3/nt1.i/20060912.b/ju431.d

Date : 12-SEP-2006 19:38

Client ID: T4-S3-05-K

Instrument: nt1.i

Sample Info: JU43L

Volume Injected (uL): 1.0

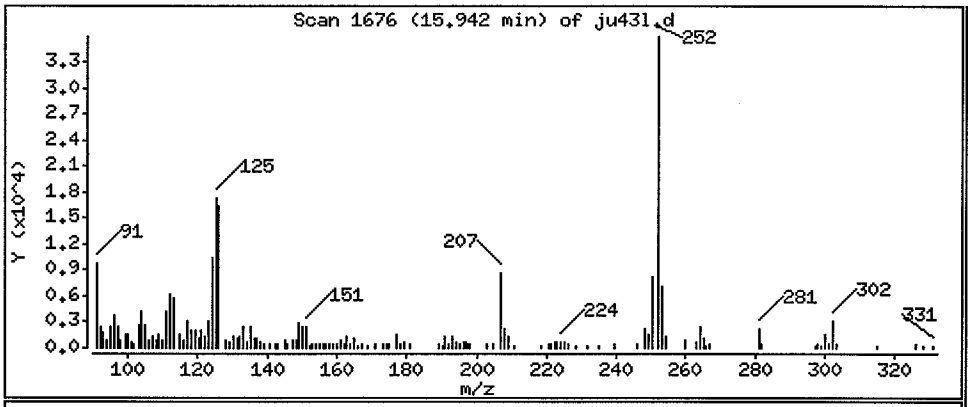
Operator: VTS

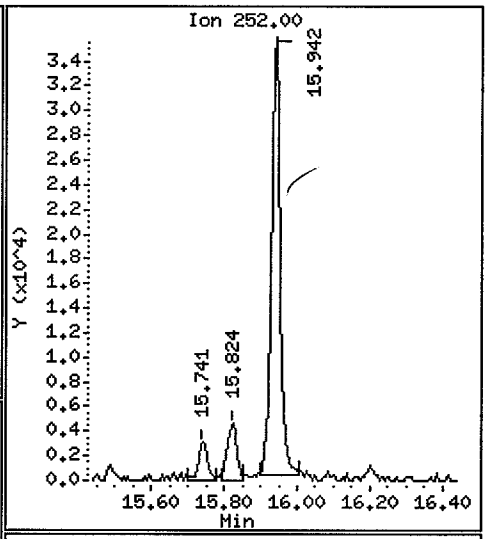
Column phase: ZB-5

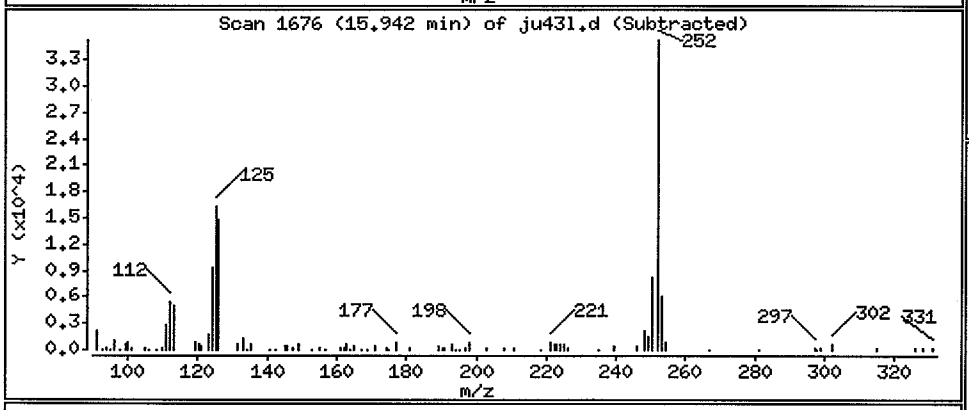
Column diameter: 0.25

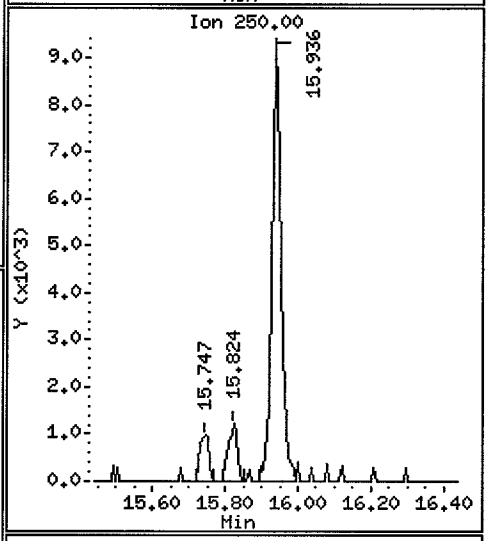
53 Perylene

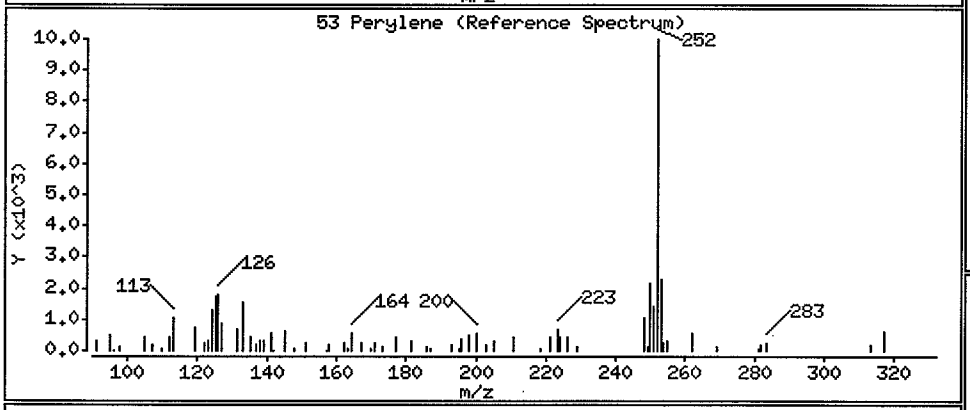
Concentration: 35.64 ug/kg

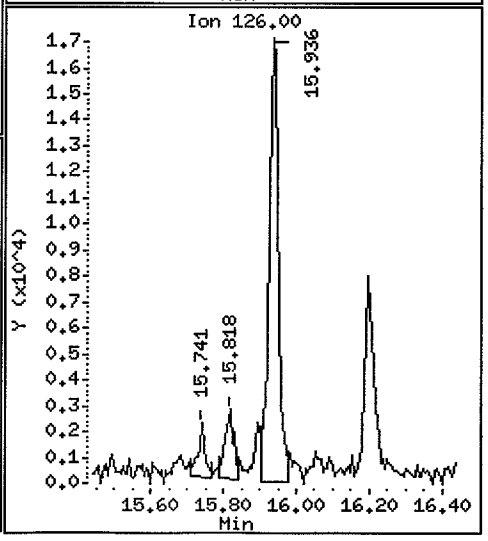


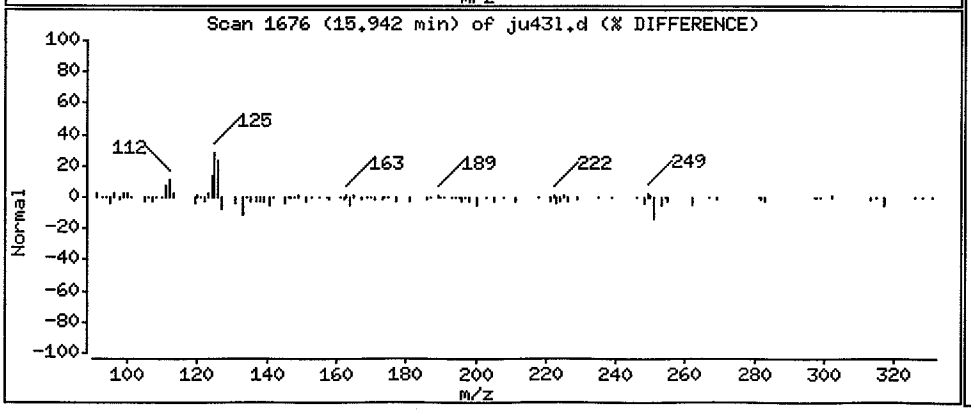












ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JU43M
LIMS ID: 06-15857
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 20:03
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 26.8%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**2.4 J**
91-57-6	2-Methylnaphthalene	4.9	< 4.9 U
90-12-0	1-Methylnaphthalene	4.9	< 4.9 U
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	**Acenaphthene**	**4.9**	**3.4 J**
86-73-7	Fluorene	4.9	< 4.9 U
85-01-8	**Phenanthrene**	**4.9**	**16**
120-12-7	**Anthracene**	**4.9**	**3.9 J**
206-44-0	**Fluoranthene**	**4.9**	**43**
129-00-0	**Pyrene**	**4.9**	**36**
56-55-3	**Benzo(a)anthracene**	**4.9**	**25**
218-01-9	**Chrysene**	**4.9**	**30**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**28**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**31**
50-32-8	**Benzo(a)pyrene**	**4.9**	**33**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**17**
53-70-3	**Dibenz(a,h)anthracene**	**4.9**	**6.9**
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**18**
198-55-0	**Perylene**	**4.9**	**12**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	< 4.9 U
832-69-9	1-Methylphenanthrene	4.9	< 4.9 U
192-97-2	**Benzo(e)pyrene**	**4.9**	**22**
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.7%
d14-Dibenzo(a,h)anthracen	79.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43m.d
Lab Smp Id: JU43M Client Smp ID: T4-S3-07-F
Inj Date : 12-SEP-2006 20:03
Operator : VTS Inst ID: nt1.i
Smp Info : JU43M
Misc Info : 06-15857
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.90000	Weight of sample extracted (g)
M	26.80000	% 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	6.813	6.808	(1.000)	342769	2.00000		J
	2 Naphthalene	128	6.831	6.832	(1.003)	8976	0.05451	2.678	J
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	208604	2.45430	120.6	
	4 2-Methylnaphthalene	142	Compound Not Detected.						
	5 1-Methylnaphthalene	142	Compound Not Detected.						
	7 Acenaphthylene	152	Compound Not Detected.						
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	163415	2.00000		J
	9 Acenaphthene	153	8.905	8.906	(1.004)	5314	0.06554	3.220	J
	10 Dibenzofuran	168	Compound Not Detected.						
	11 Fluorene	166	Compound Not Detected.						
*	15 Phenanthrene-d10	188	10.678	10.679	(1.000)	203381	2.00000		
	16 Phenanthrene	178	10.708	10.709	(1.003)	36510	0.33117	16.27	
	17 Anthracene	178	10.767	10.762	(1.008)	9441	0.08491	4.173	J
	19 Fluoranthene	202	12.197	12.198	(1.142)	82458	0.87625	43.06	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.487	12.488	(0.893)	82737	0.74136	36.43
	22 Benzo(a)anthracene	228	13.964	13.965	(0.998)	48626	0.51148	25.13
*	23 Chrysene-d12	240	13.988	13.989	(1.000)	158570	2.00000	
	24 Chrysene	228	14.018	14.018	(1.002)	55547	0.62178	30.55
	28 Benzo(b)fluoranthene	252	15.335	15.336	(0.965)	51526	0.58302	28.65
	29 Benzo(k)fluoranthene	252	15.365	15.366	(0.967)	58304	0.63168	31.04 (M)
	30 Benzo(a)pyrene	252	15.820	15.821	(0.995)	54027	0.67778	33.31
*	31 Perylene-d12	264	15.897	15.898	(1.000)	156067	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.806	17.813	(1.120)	29070	0.33971	16.69
$	32 Dibenz(a,h)anthrancene-d14	292	17.735	17.736	(1.116)	122366	2.39263	117.6
	34 Dibenz(a,h)anthracene	278	17.800	17.807	(1.120)	9857	0.14212	6.984
	35 Benzo(g,h,i)perylene	276	18.373	18.380	(1.156)	28033	0.37068	18.22
	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	15.737	15.744	(0.990)	39233	0.44180	21.71
	53 Perylene	252	15.938	15.939	(1.003)	20887	0.25207	12.39

QC Flag Legend

M - Compound response manually integrated.

VTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43m.d
Lab Smp Id: JU43M
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15857

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-07-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	342769	0.36
8 Acenaphthene-d10	169375	84688	338750	163415	-3.52
15 Phenanthrene-d10	232185	116092	464370	203381	-12.41
23 Chrysene-d12	179856	89928	359712	158570	-11.84
31 Perylene-d12	175373	87686	350746	156067	-11.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	-0.01
23 Chrysene-d12	13.99	13.49	14.49	13.99	-0.01
31 Perylene-d12	15.90	15.40	16.40	15.90	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

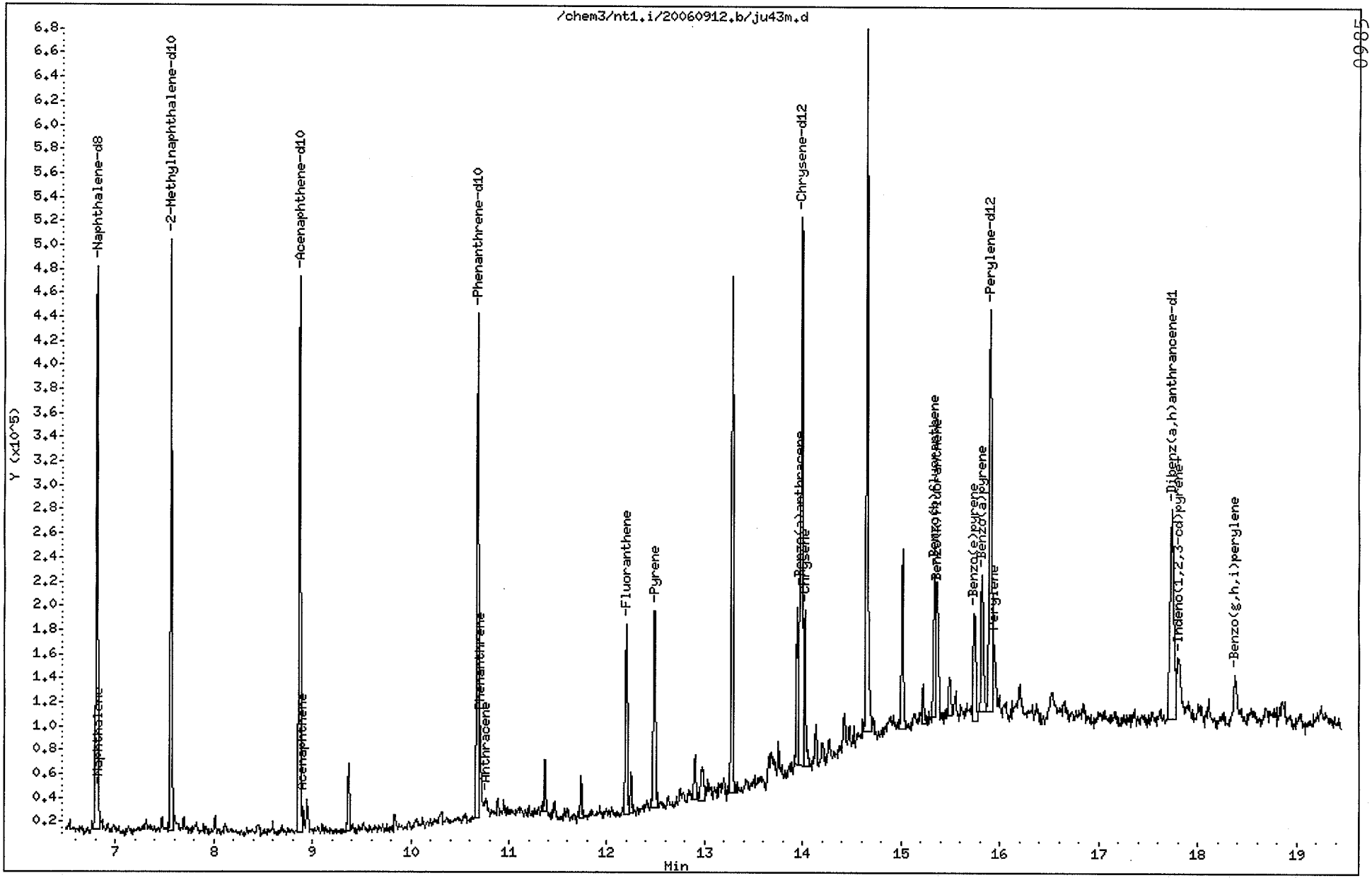
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43M
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15857

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-07-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.4	120.6	81.81	32-97
$ 32 Dibenz(a,h)anthran	147.4	117.6	79.75	21-105

Data File: /chem3/nt1.i/20060912.b/ju43m.d
Date : 12-SEP-2006 20:03
Client ID: T4-S3-07-F
Sample Info: JU43M
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

Operator: VTS

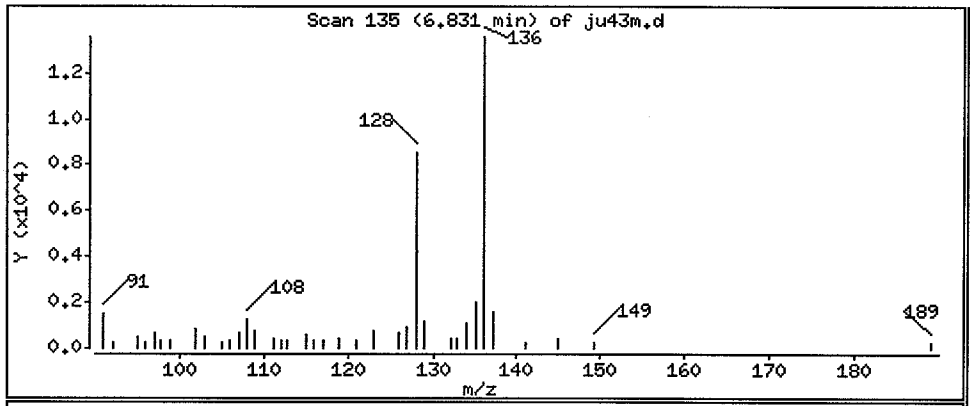
Column phase: ZB-5

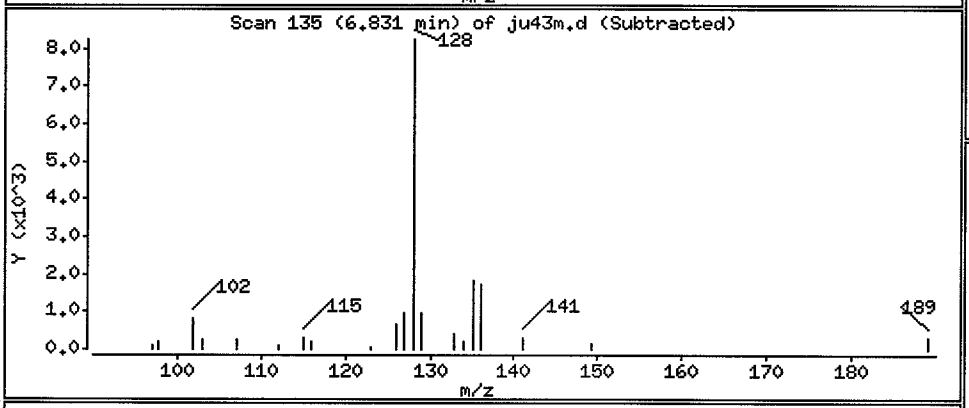
Column diameter: 0.25

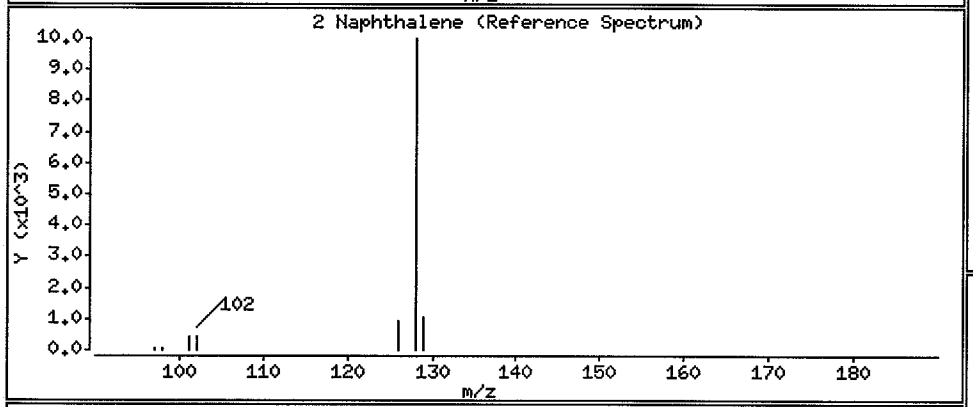
2 Naphthalene

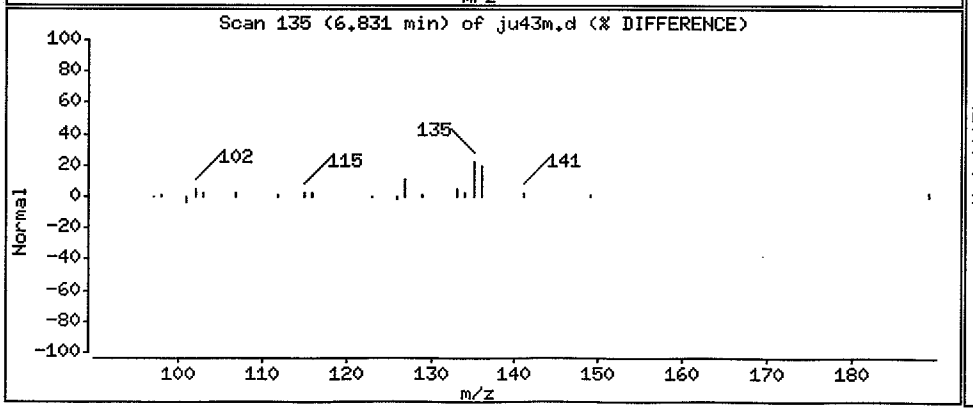
Concentration: 2.678 ug/kg

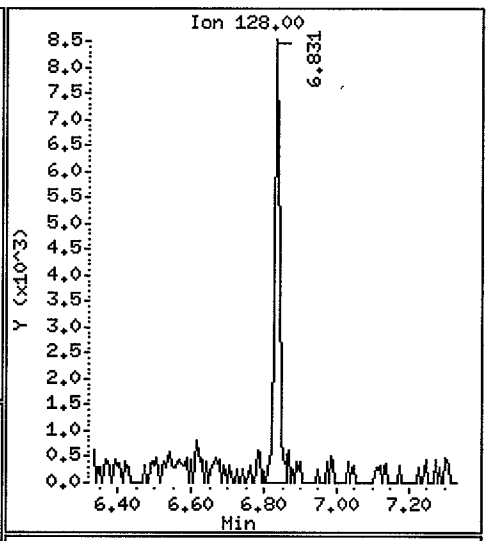
JCR

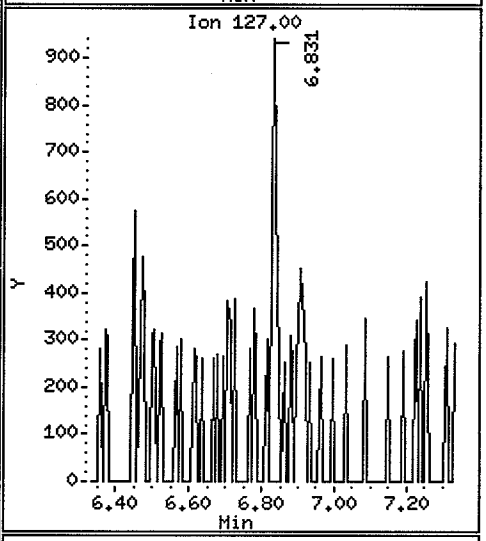


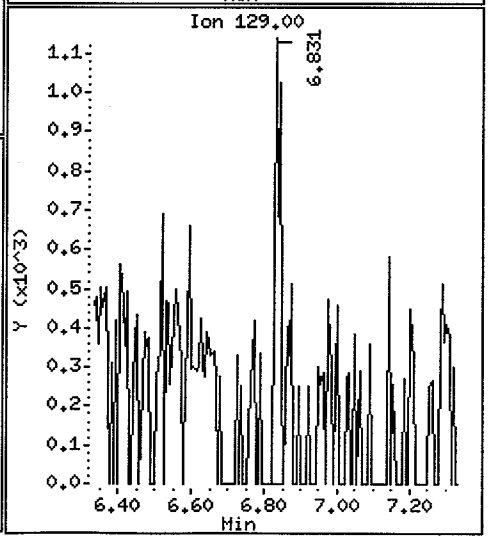












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

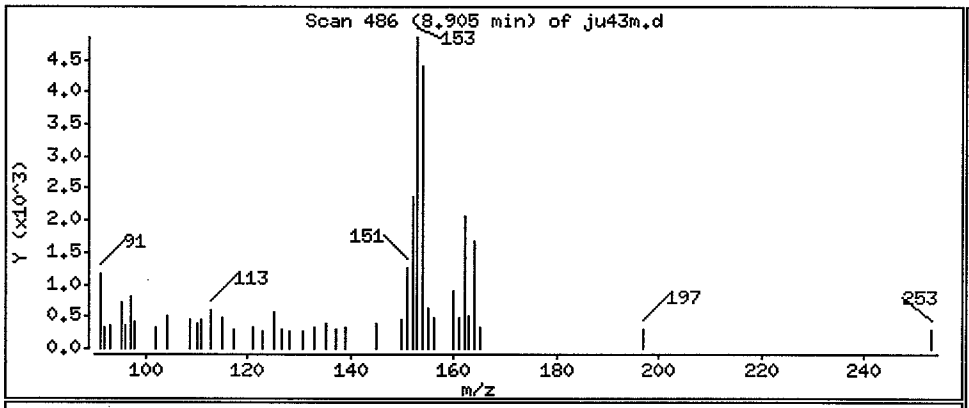
Operator: VTS

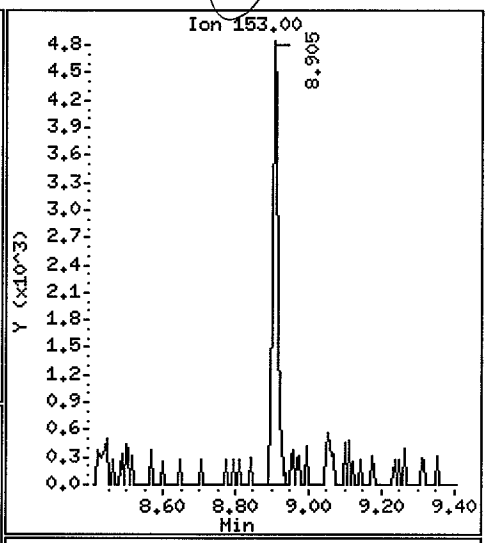
Column phase: ZB-5

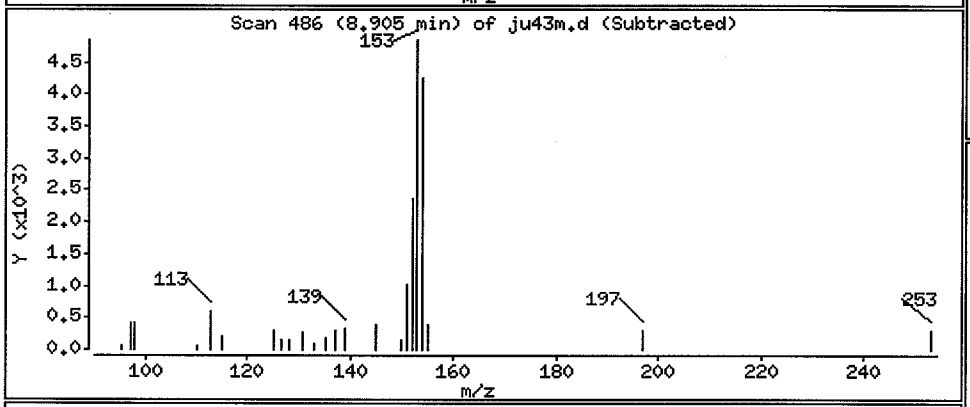
Column diameter: 0.25

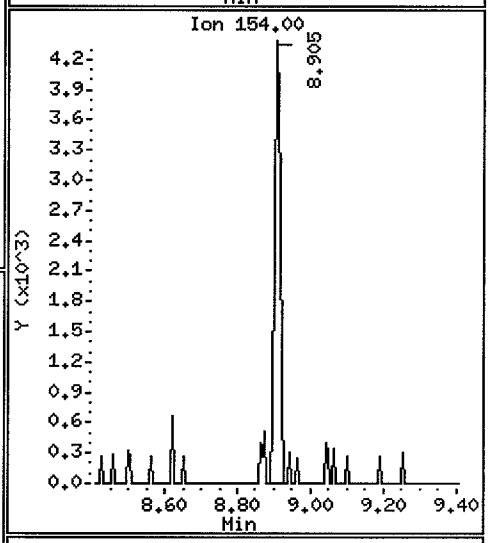
9 Acenaphthene

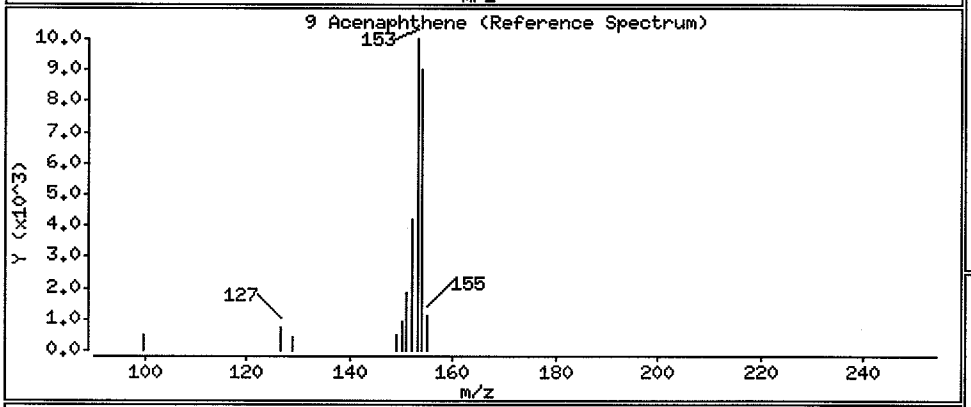
Concentration: 3.220 ug/kg

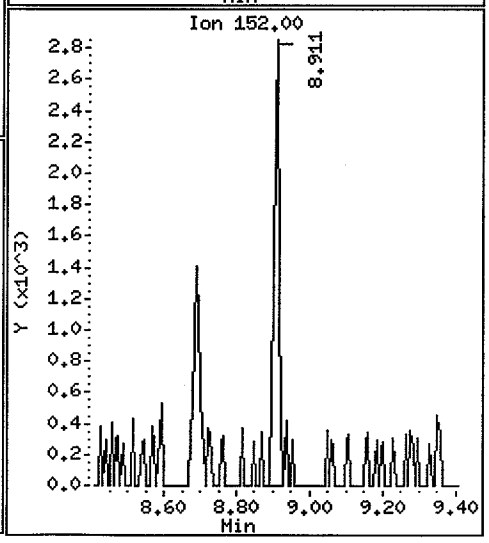


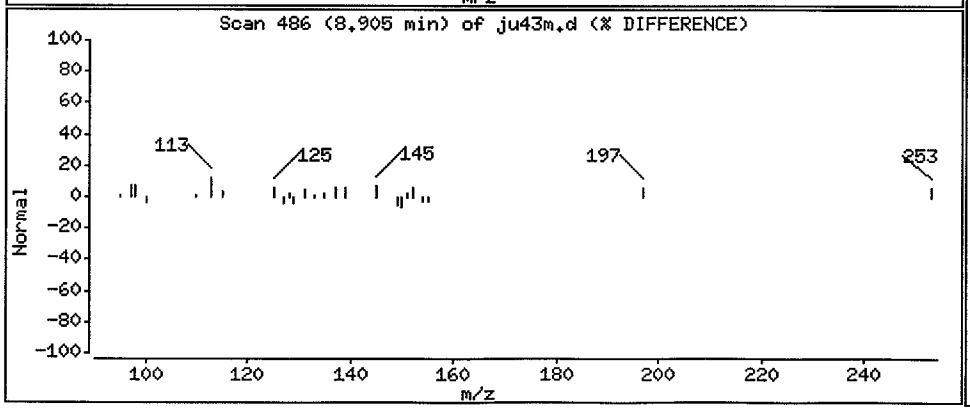












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

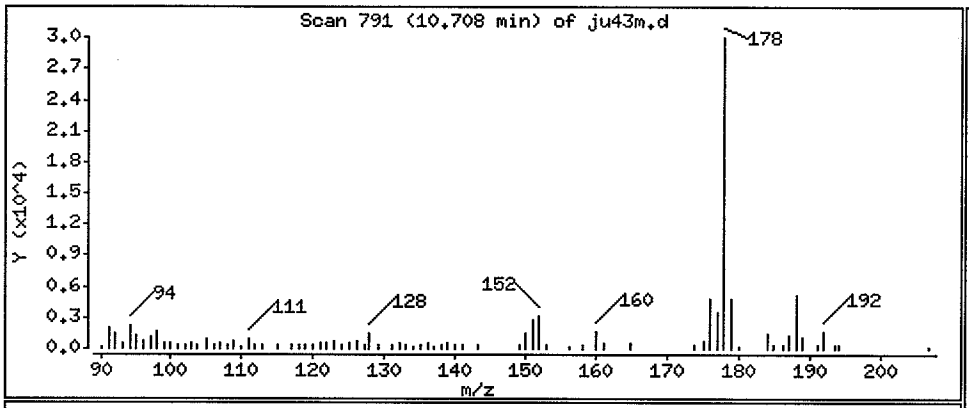
Operator: VTS

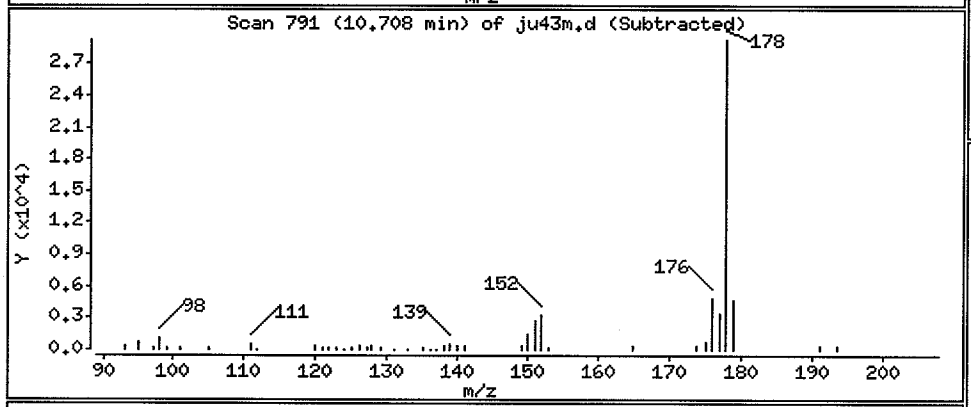
Column phase: ZB-5

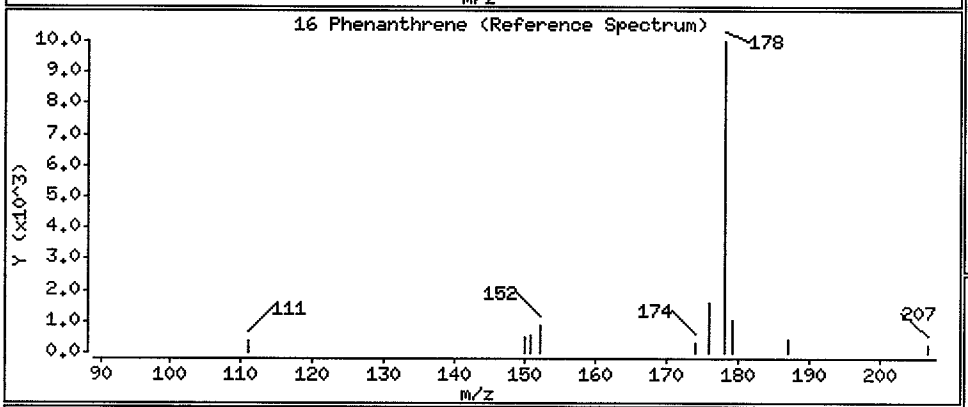
Column diameter: 0.25

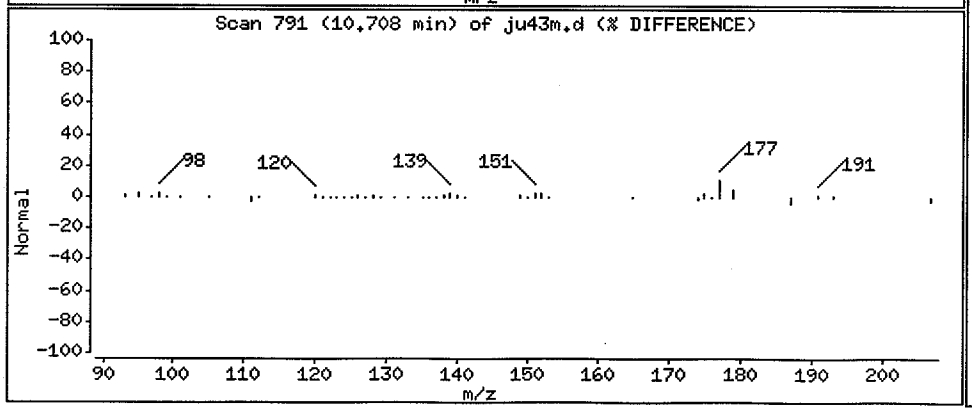
16 Phenanthrene

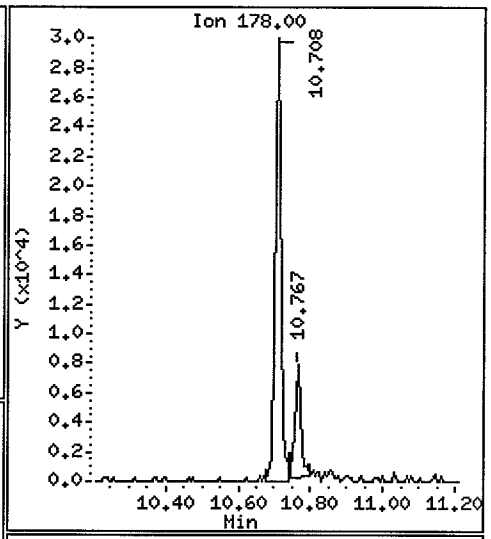
Concentration: 16.27 ug/kg

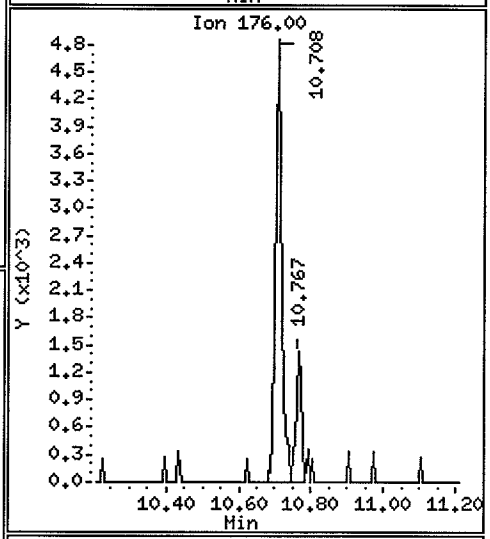


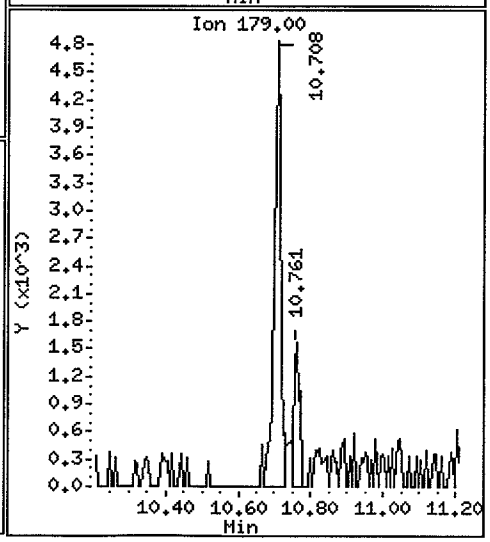












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

Operator: VTS

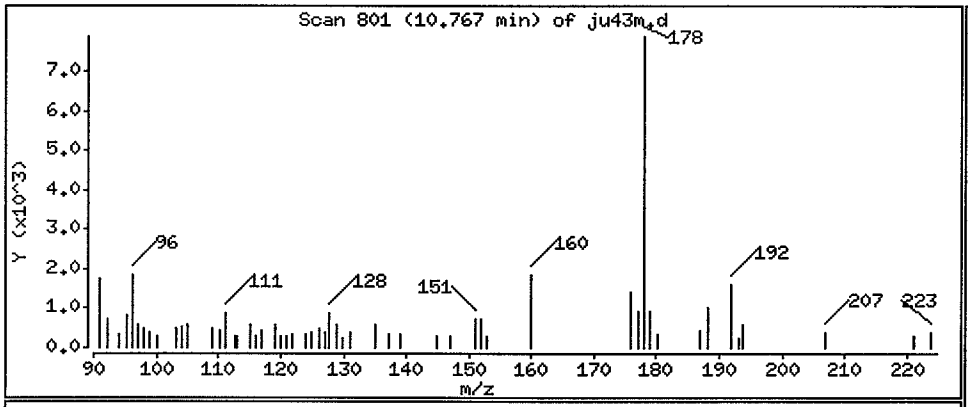
Column phase: ZB-5

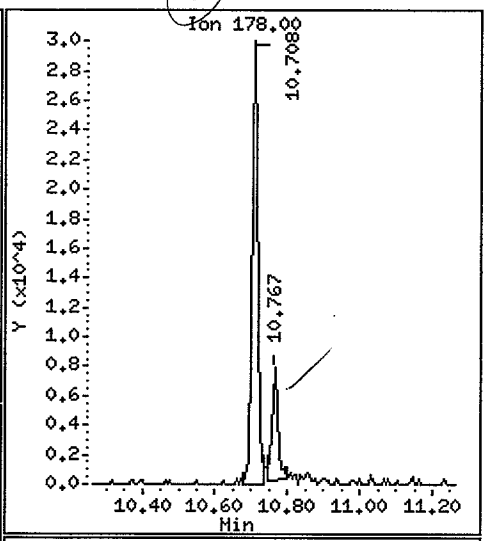
Column diameter: 0.25

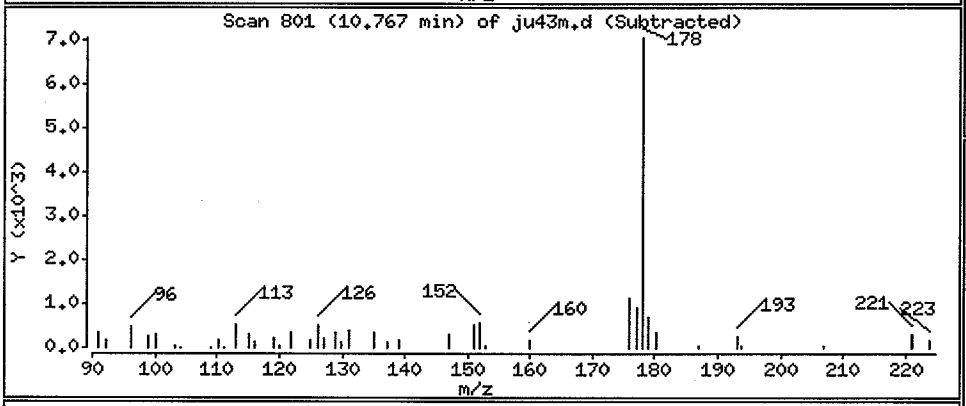
17 Anthracene

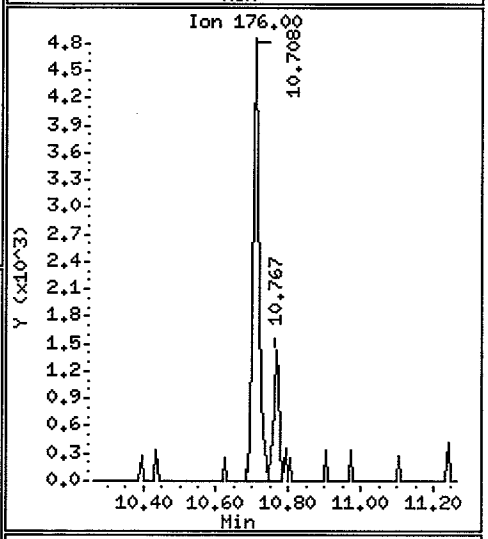
Concentration: 4.173 ug/kg

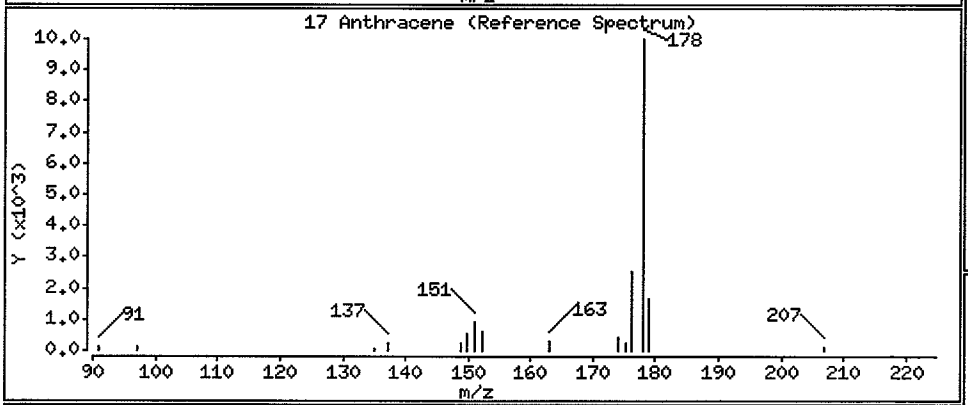
(5) UKV

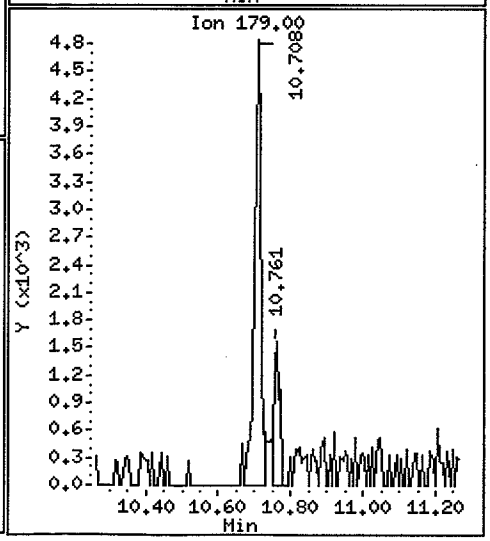


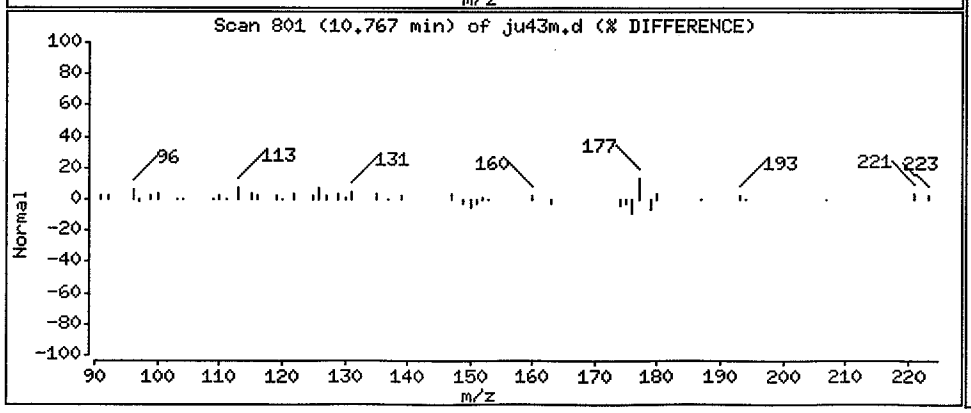












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

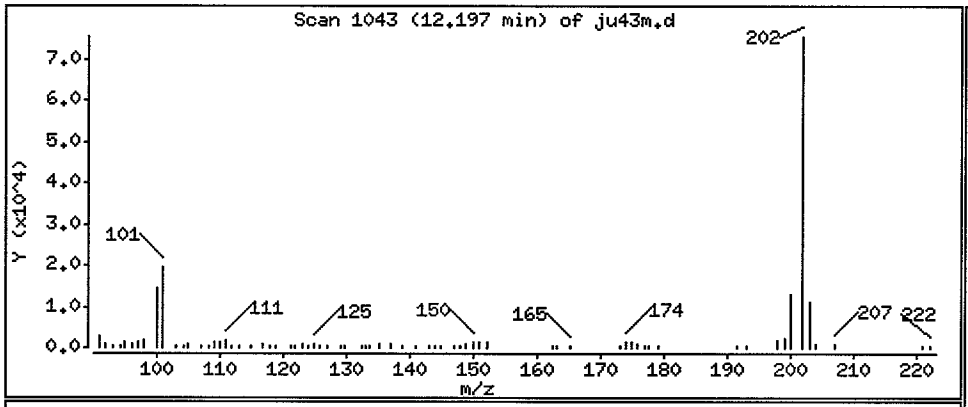
Operator: VTS

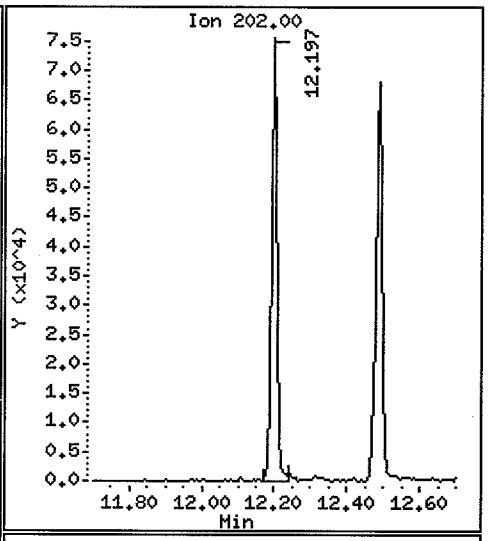
Column phase: ZB-5

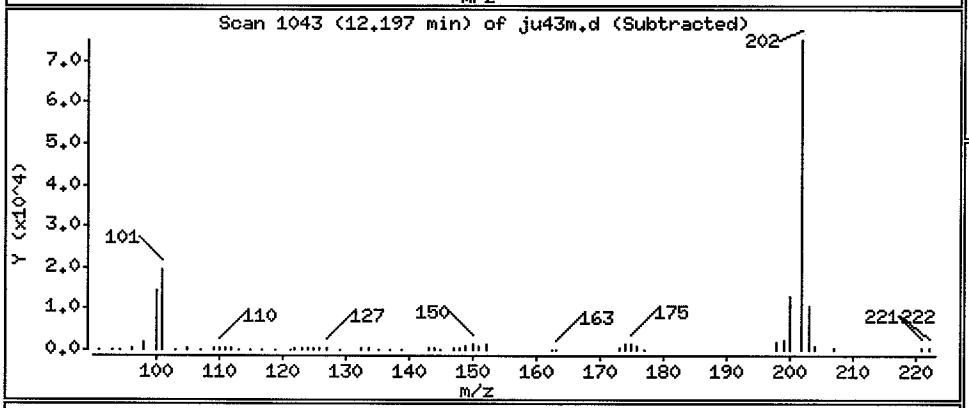
Column diameter: 0.25

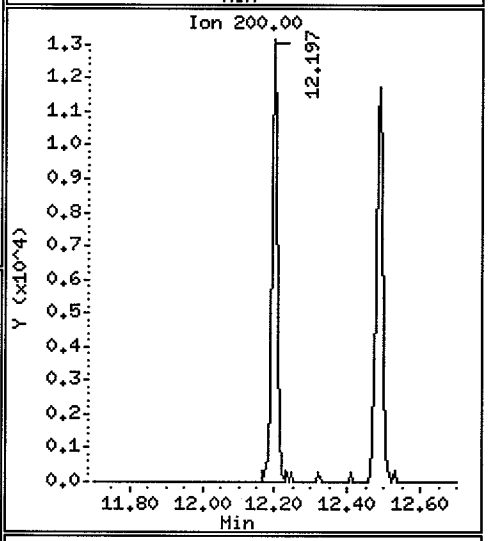
19 Fluoranthene

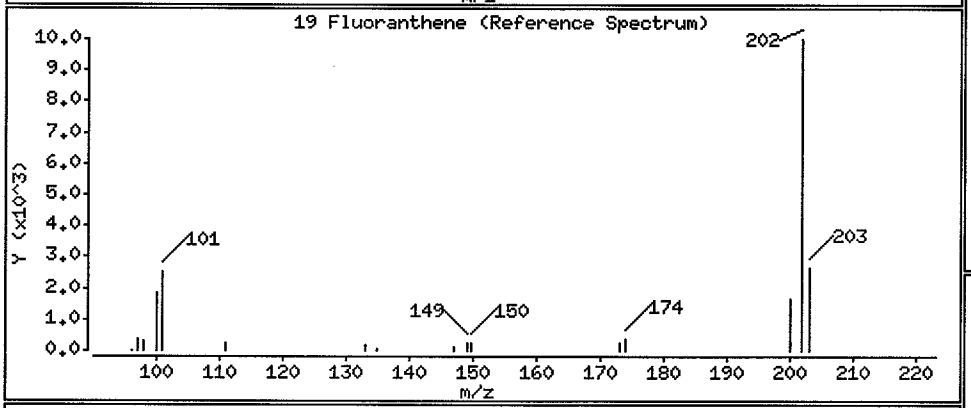
Concentration: 43.06 ug/kg

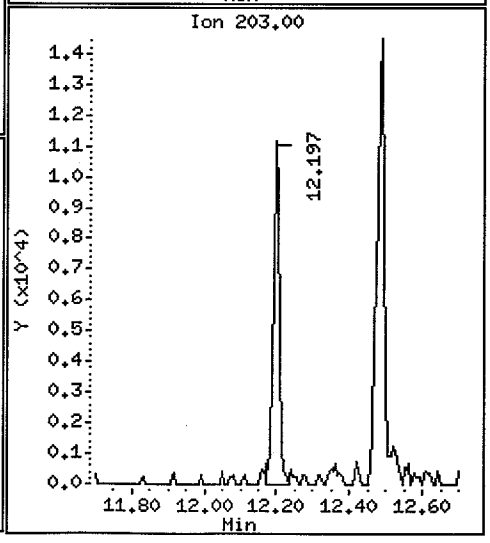


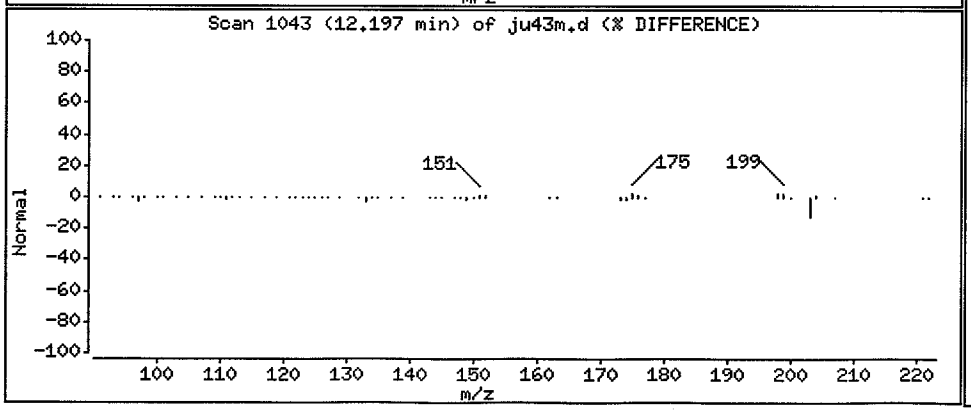












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

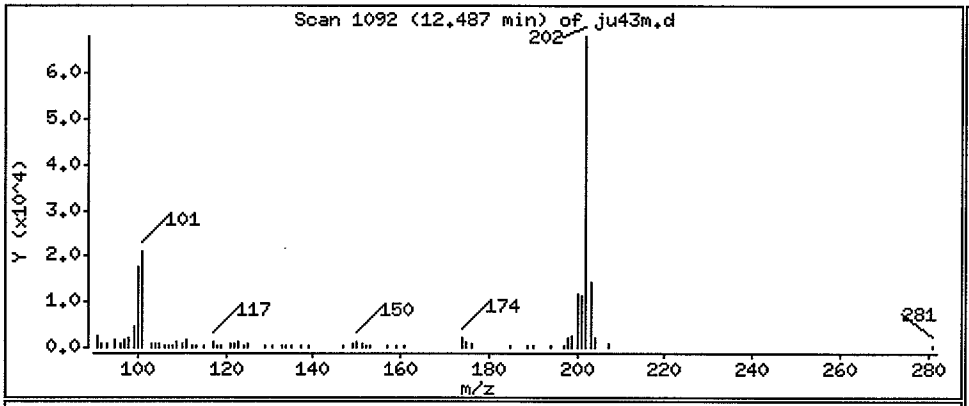
Operator: VTS

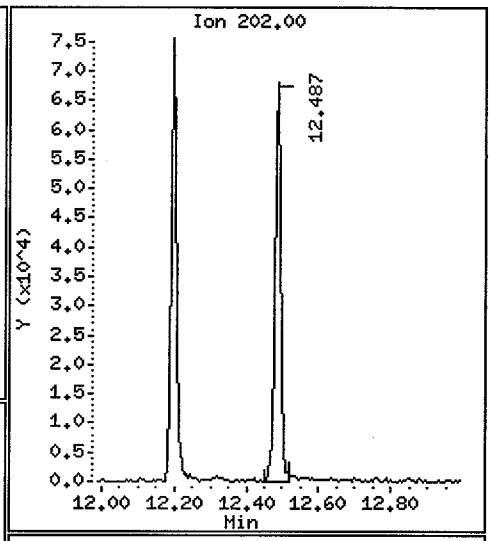
Column phase: ZB-5

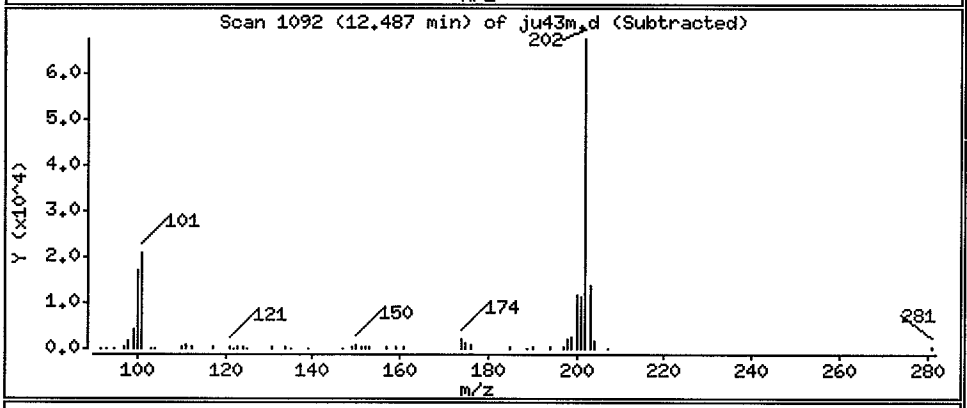
Column diameter: 0.25

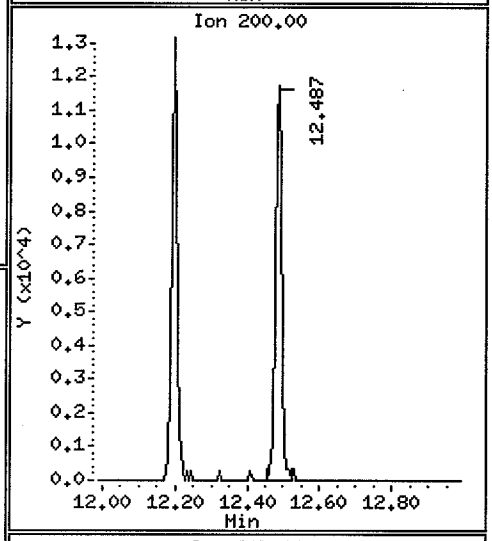
20 Pyrene

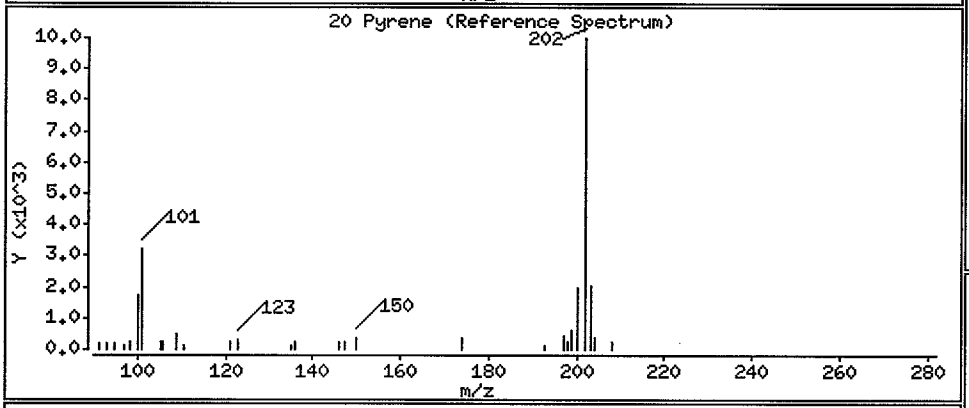
Concentration: 36.43 ug/kg

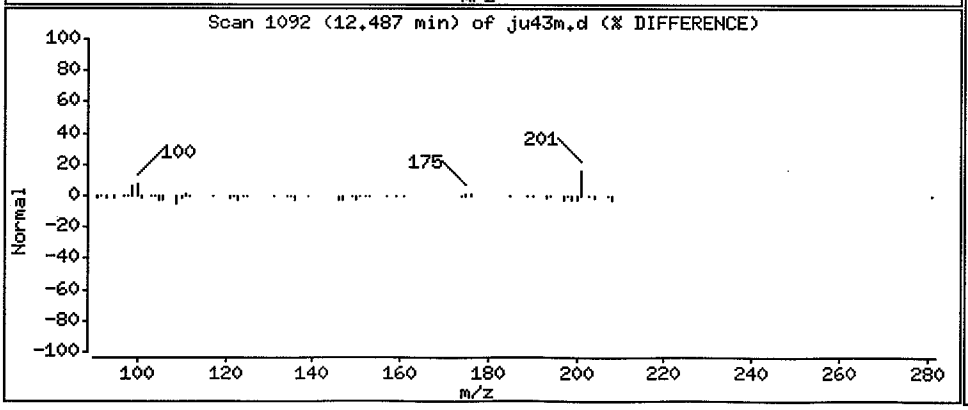


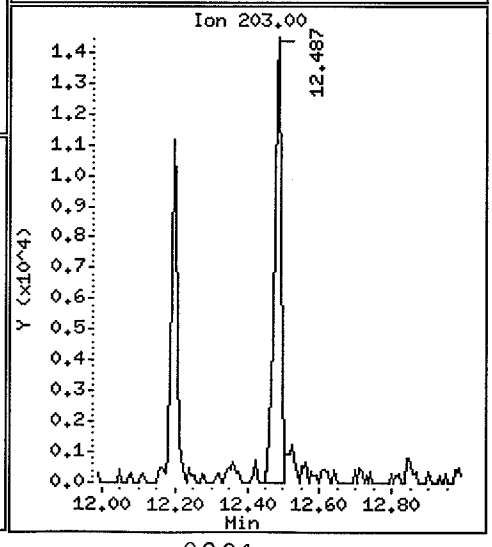












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

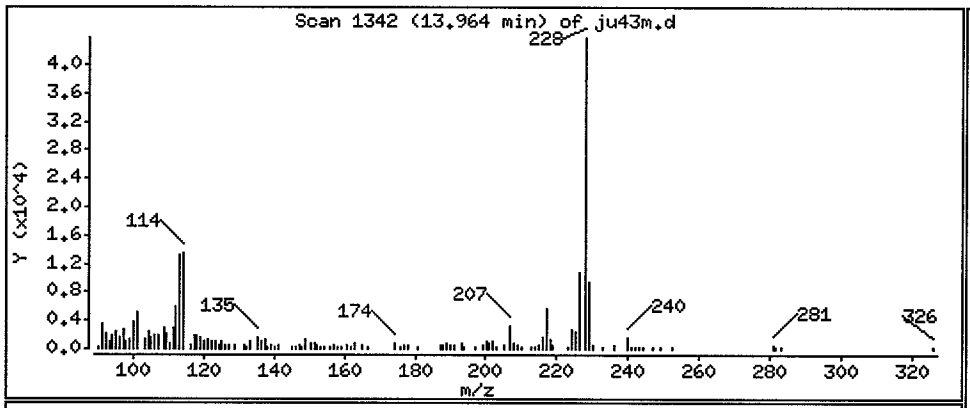
Operator: VTS

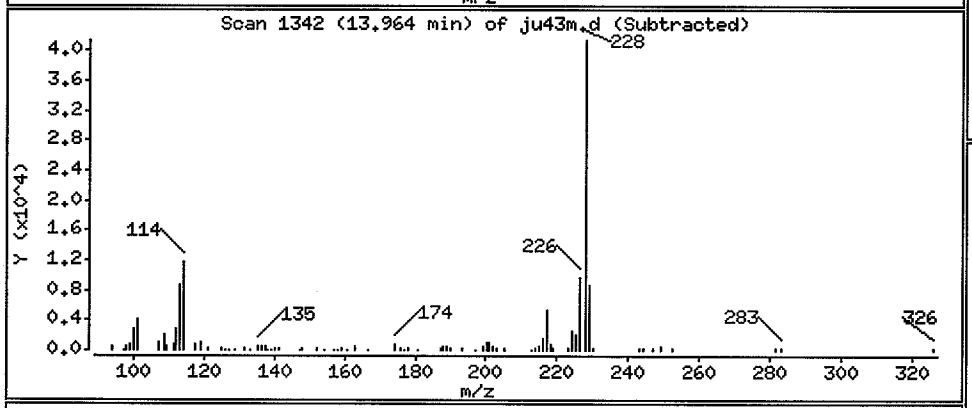
Column phase: ZB-5

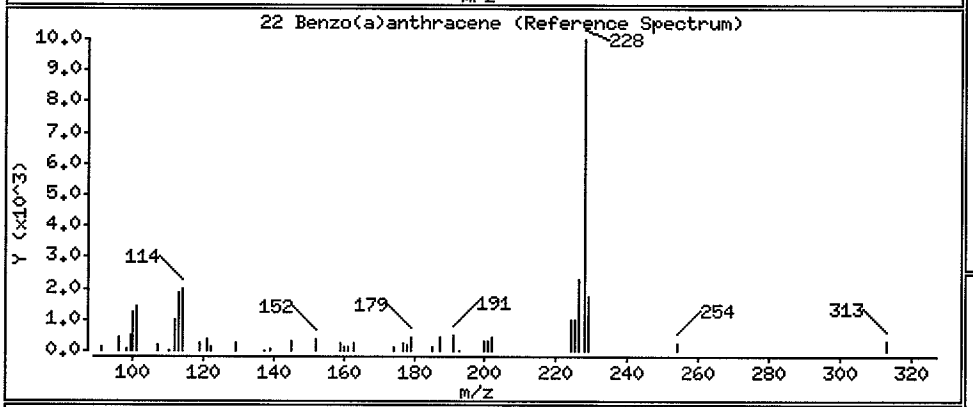
Column diameter: 0.25

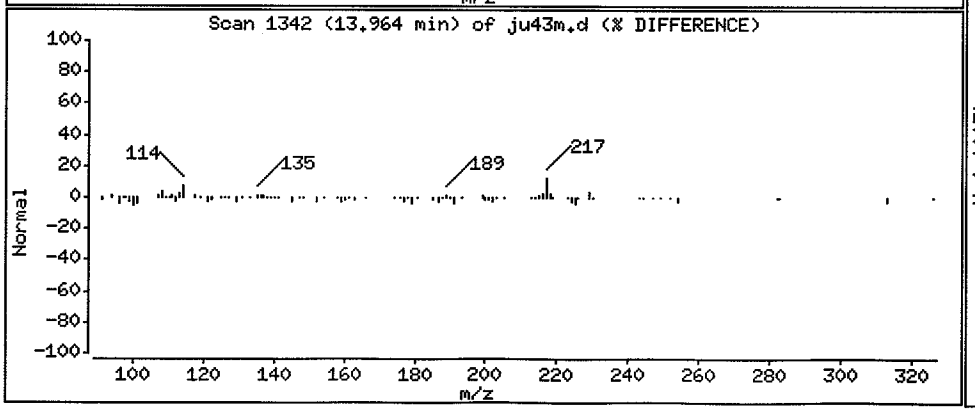
22 Benzo(a)anthracene

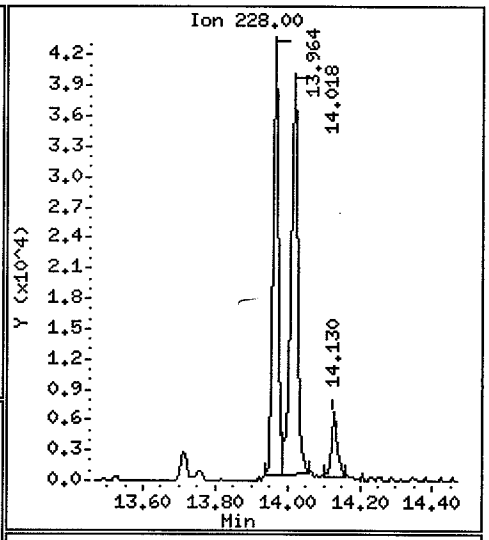
Concentration: 25.13 ug/kg

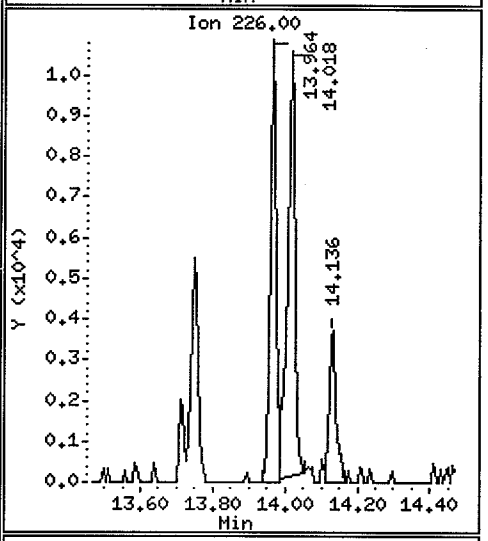


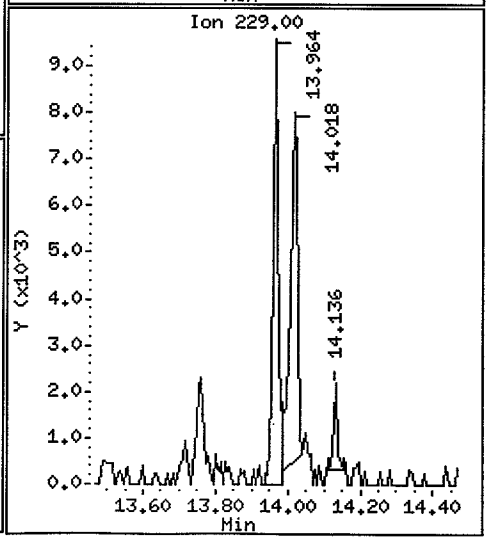












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

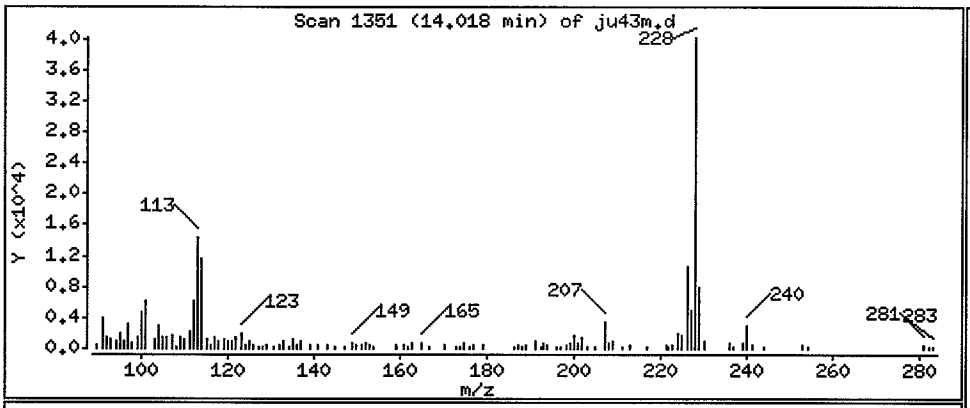
Operator: VTS

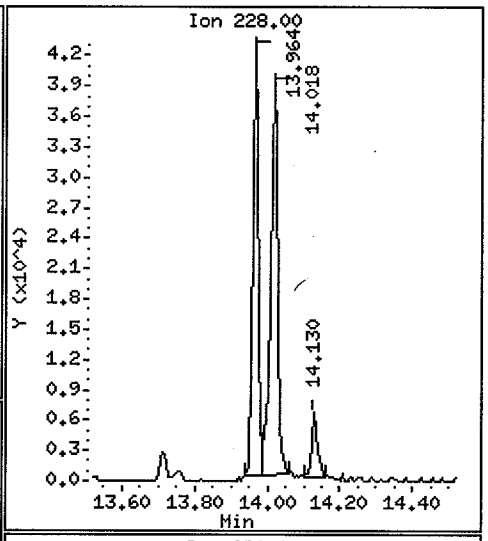
Column phase: ZB-5

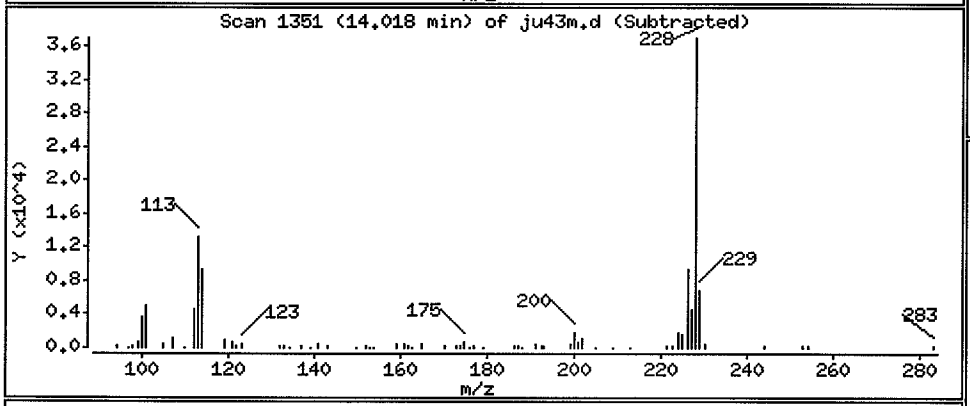
Column diameter: 0.25

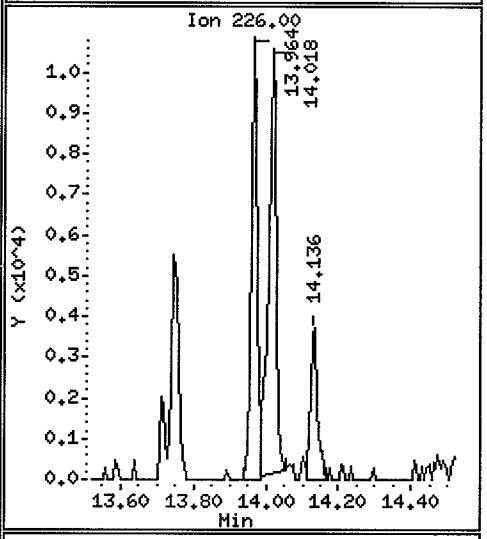
24 Chrysene

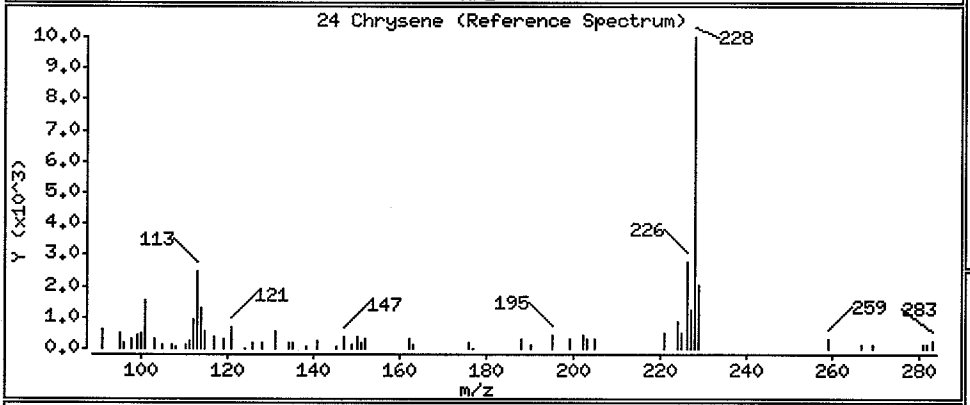
Concentration: 30.55 ug/kg

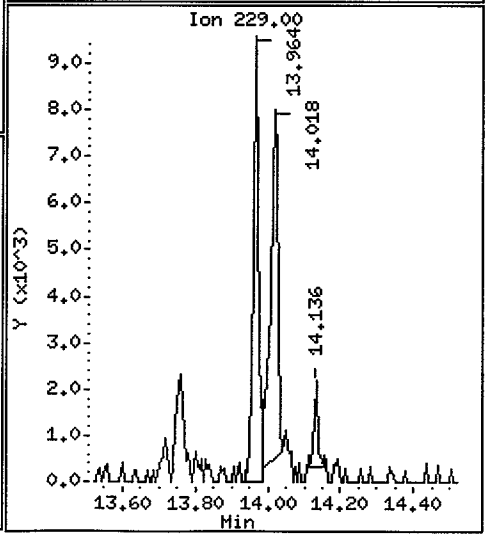


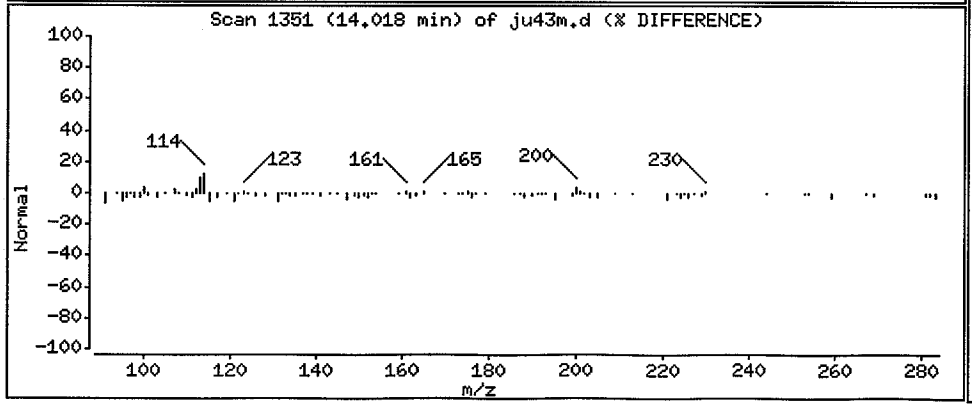












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

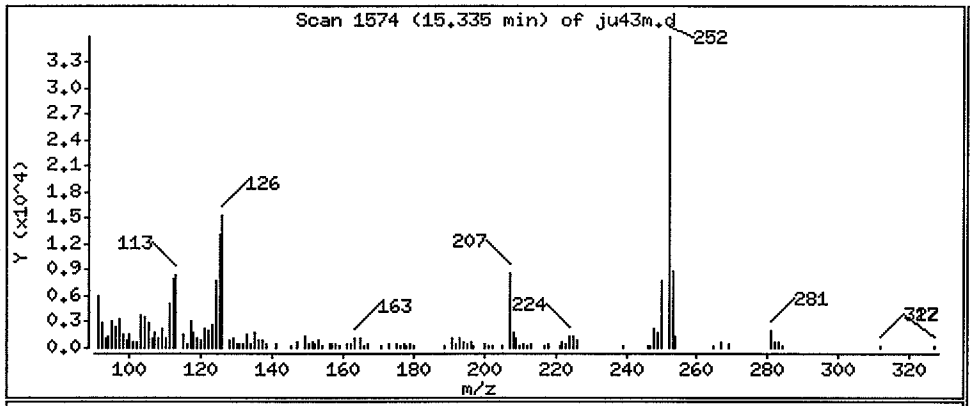
Operator: VTS

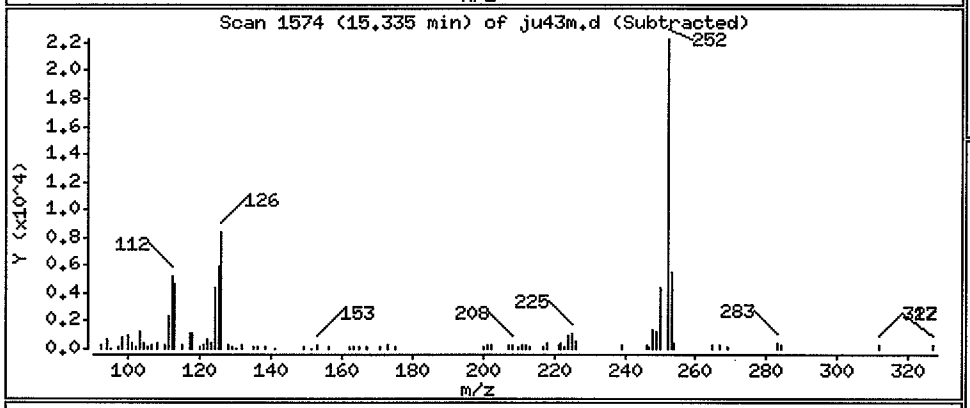
Column phase: ZB-5

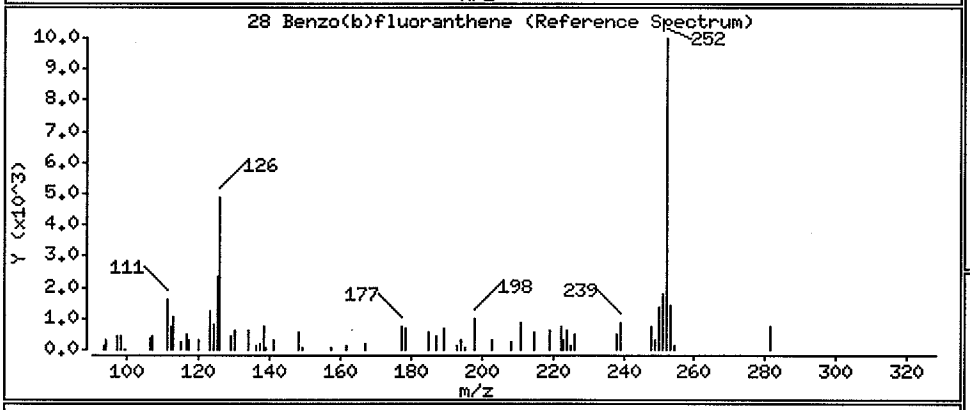
Column diameter: 0.25

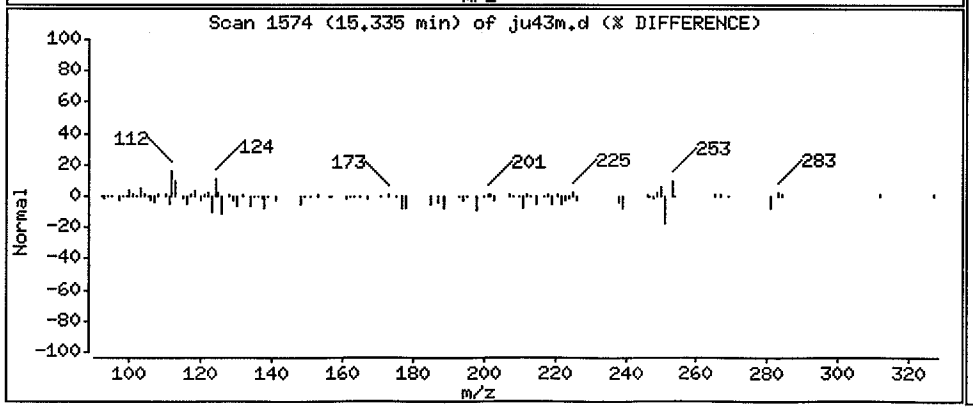
28 Benzo(b)fluoranthene

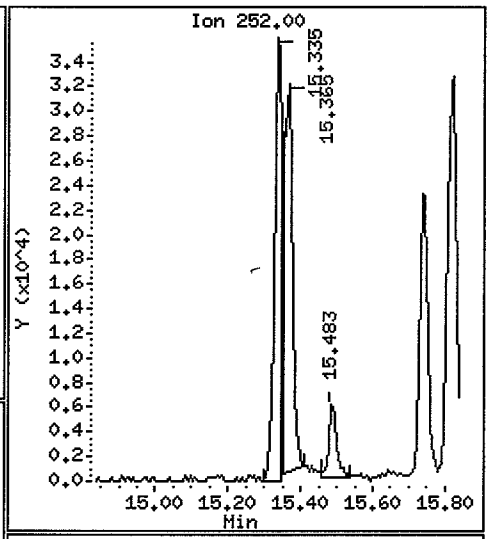
Concentration: 28.65 ug/kg

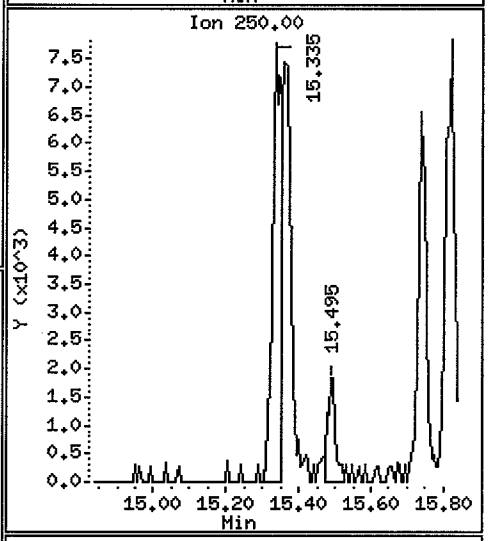


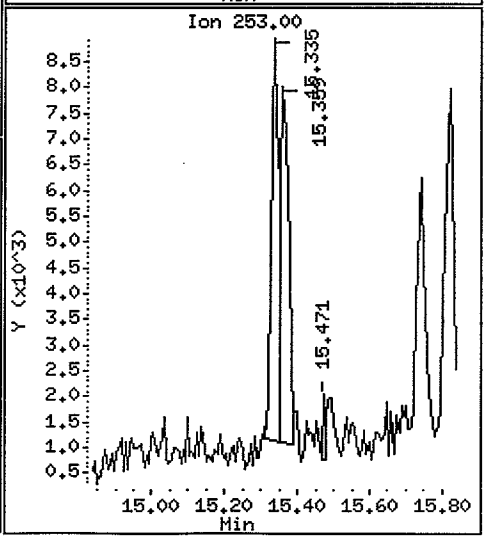












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

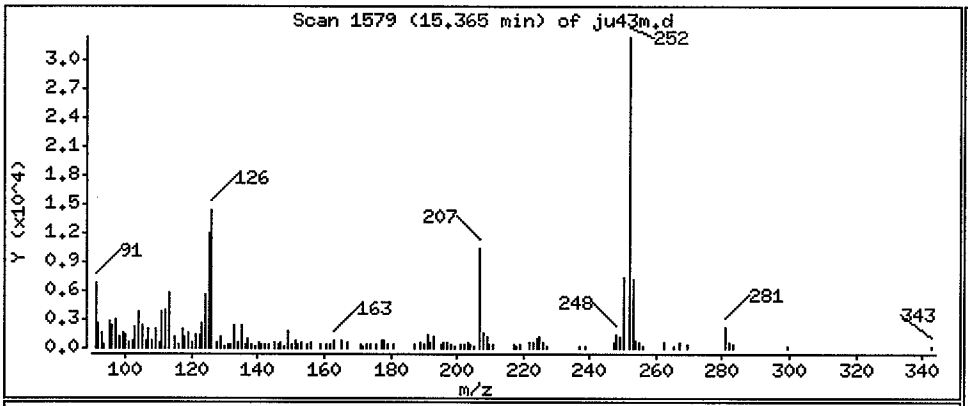
Operator: VTS

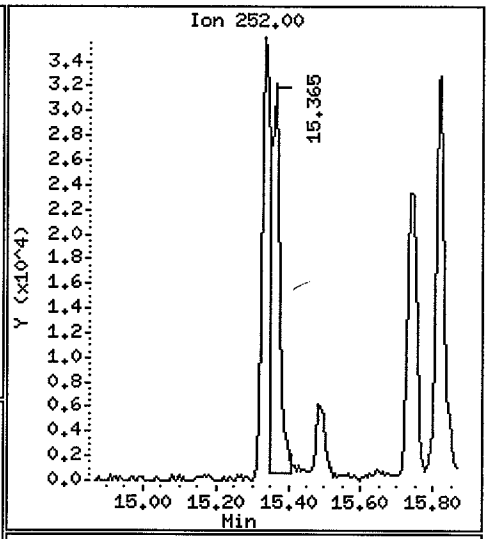
Column phase: ZB-5

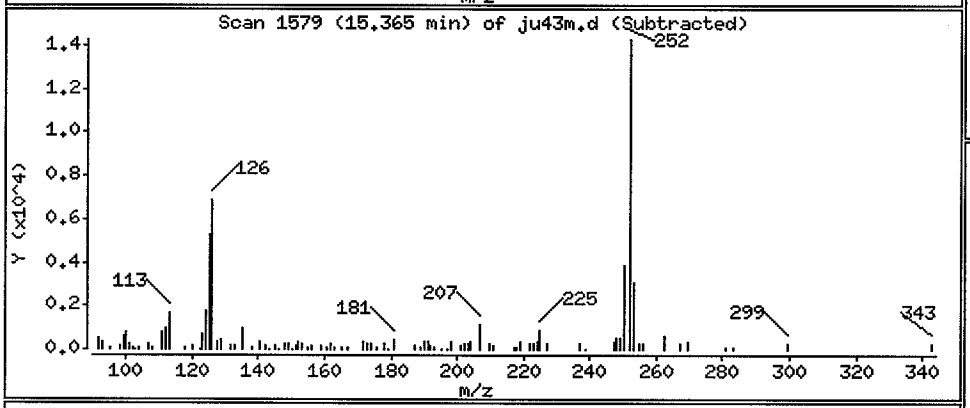
Column diameter: 0.25

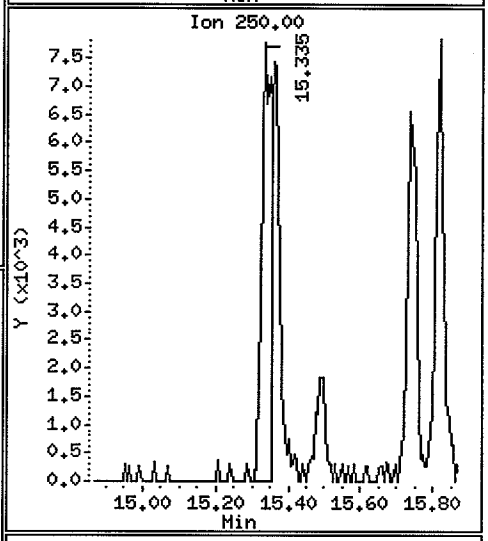
29 Benzo(k)fluoranthene

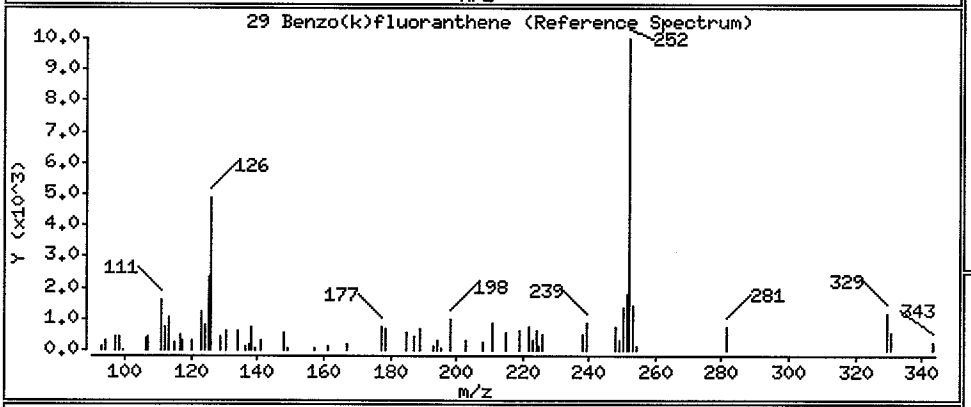
Concentration: 31.04 ug/kg

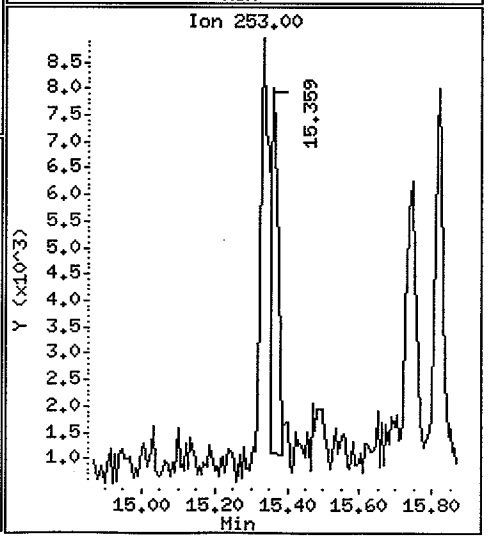


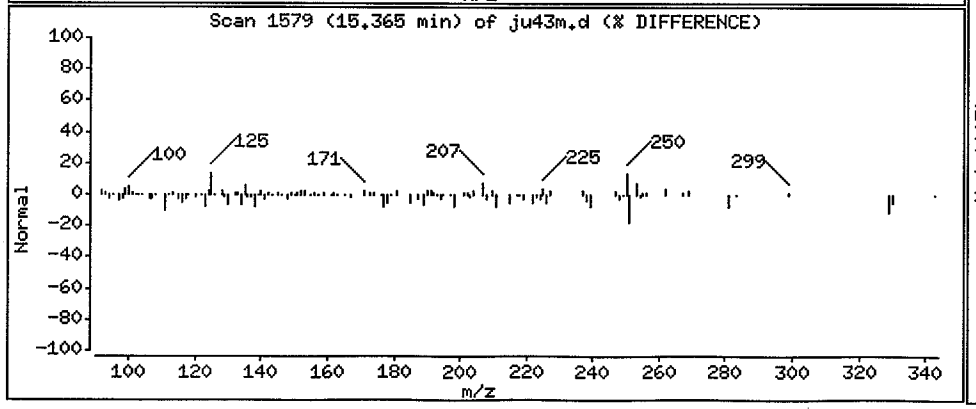












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

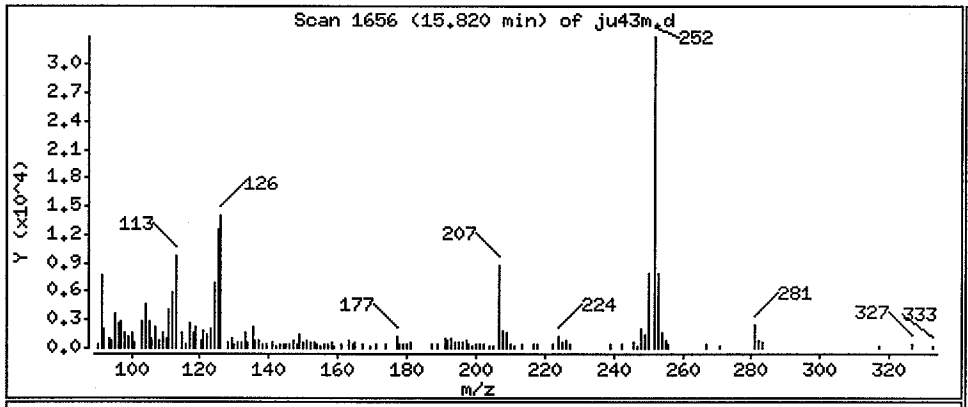
Operator: VTS

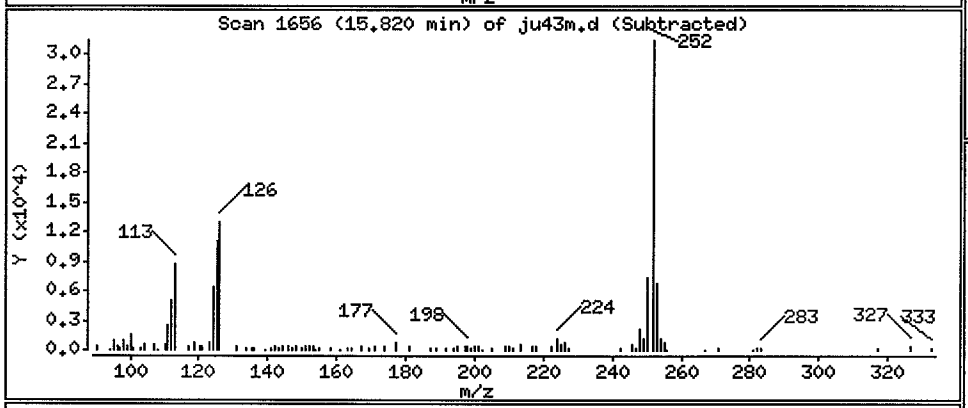
Column phase: ZB-5

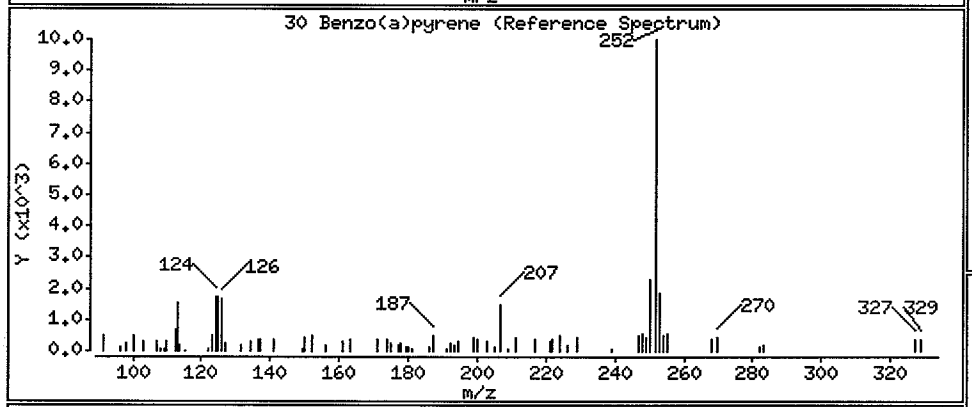
Column diameter: 0.25

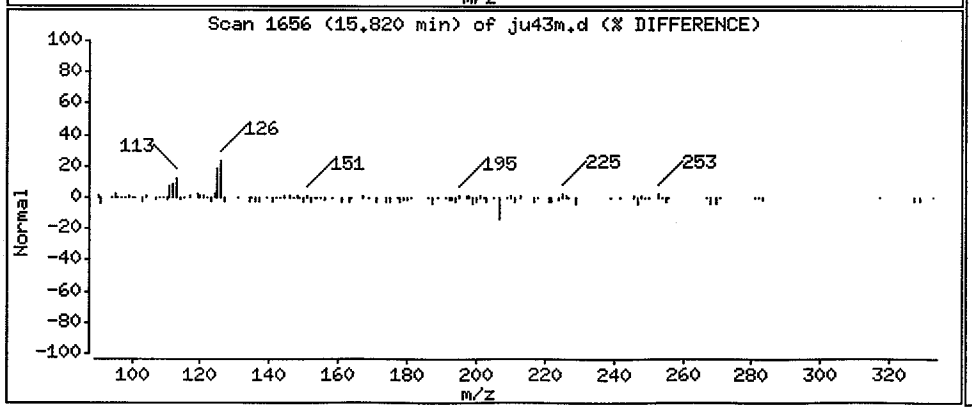
30 Benzo(a)pyrene

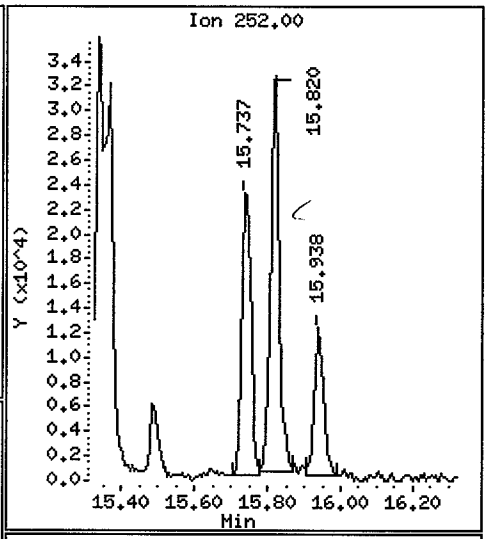
Concentration: 33.31 ug/kg

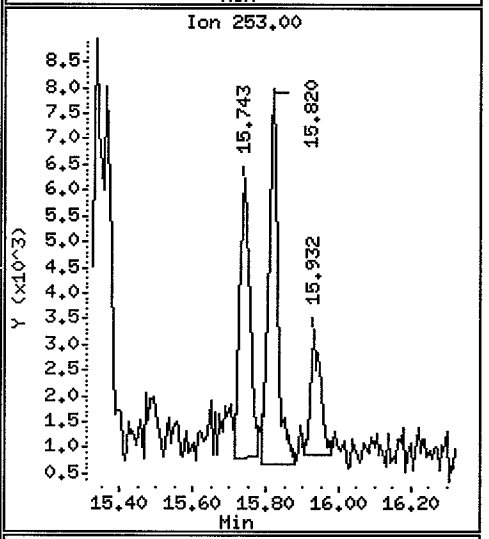


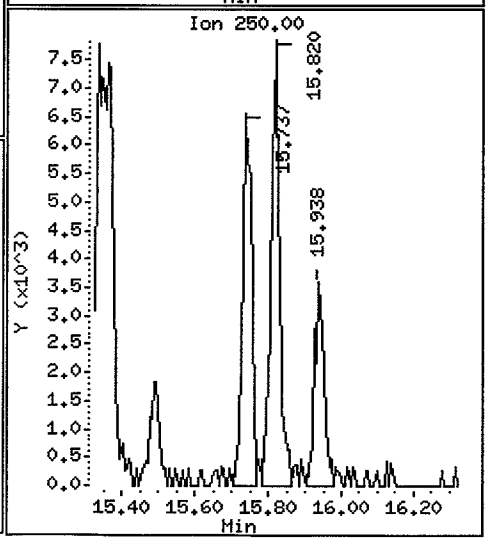












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

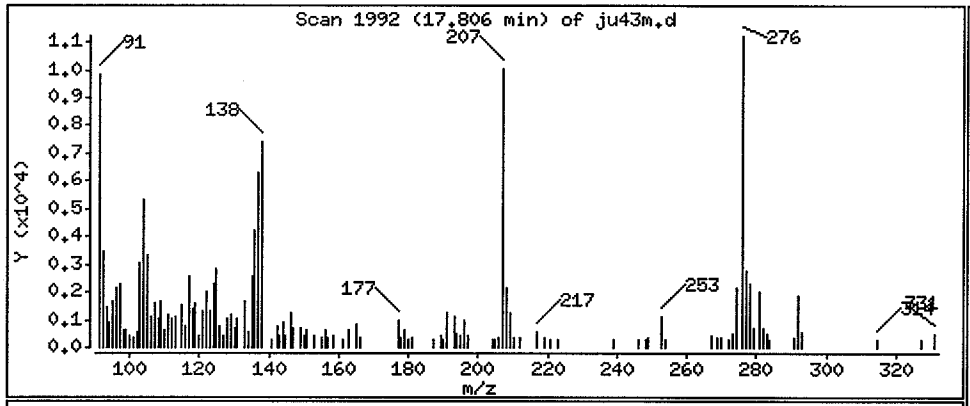
Operator: VTS

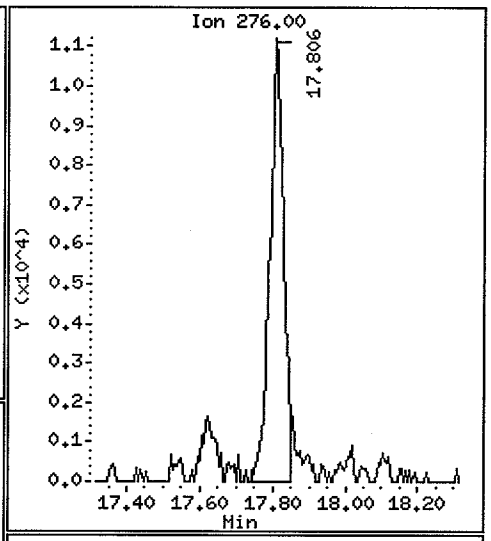
Column phase: ZB-5

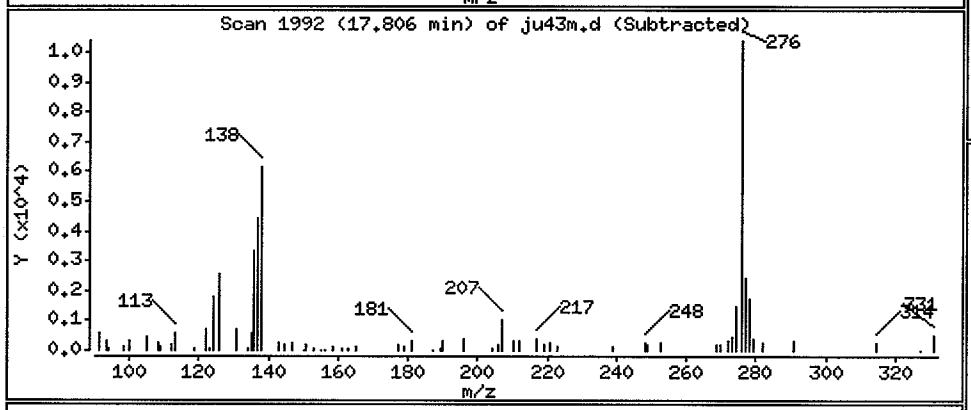
Column diameter: 0.25

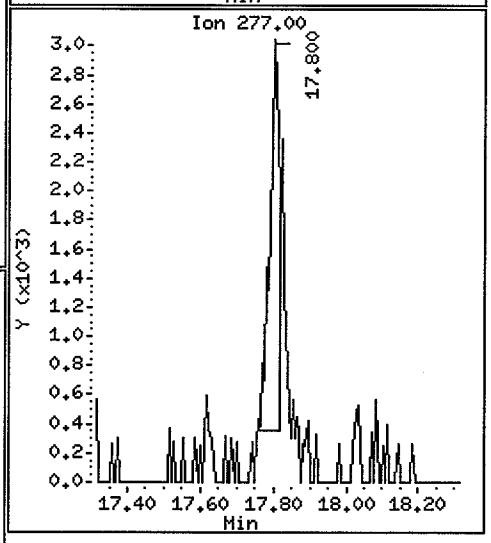
33 Indeno(1,2,3-cd)pyrene

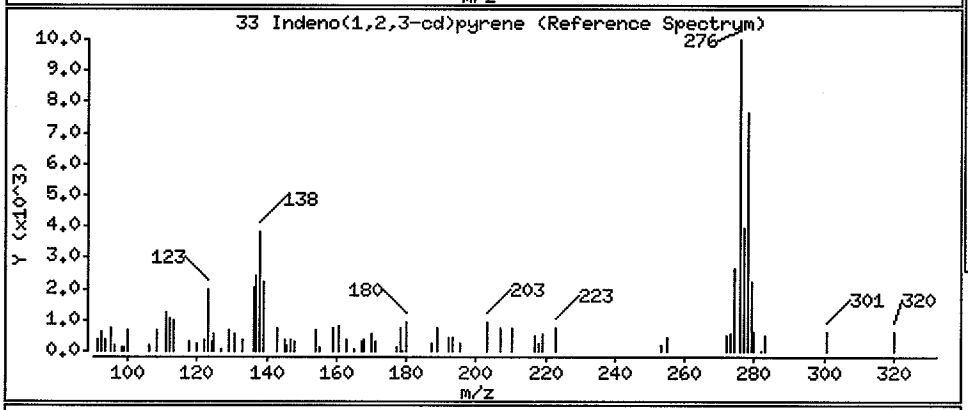
Concentration: 16.69 ug/kg

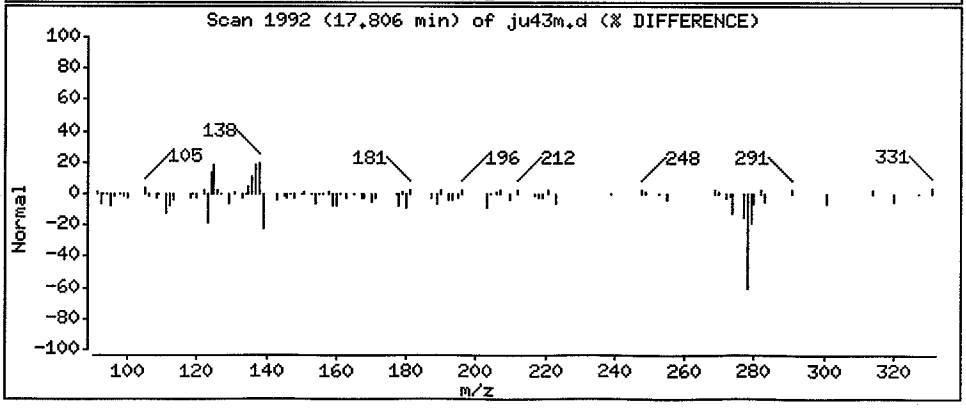












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

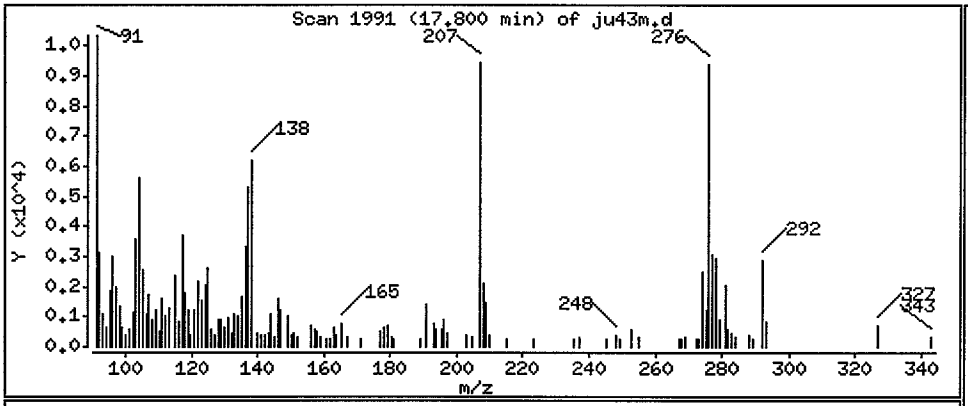
Operator: VTS

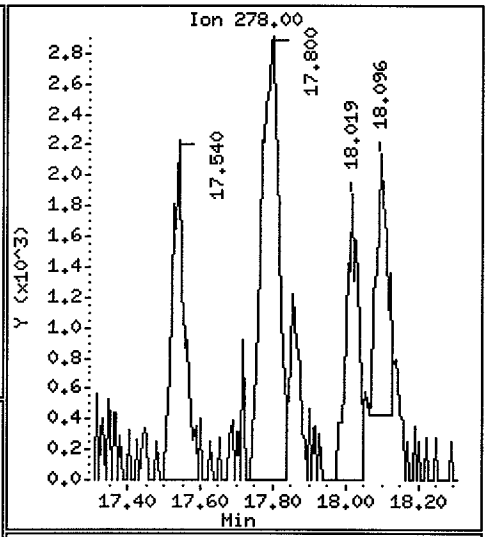
Column phase: ZB-5

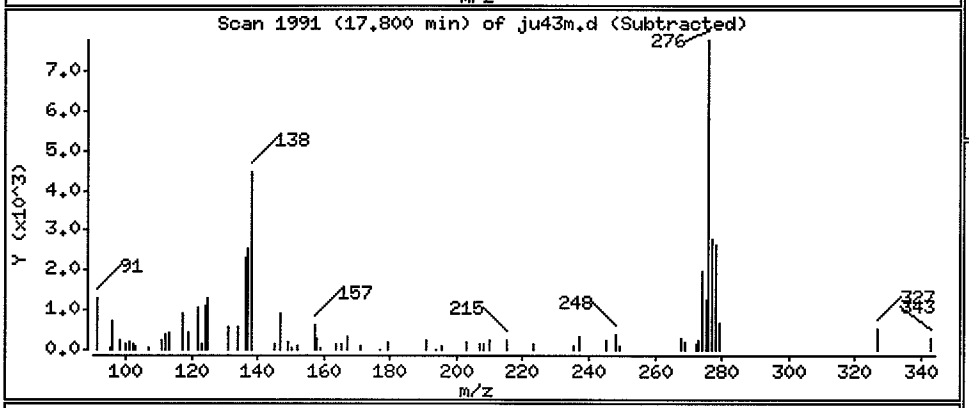
Column diameter: 0.25

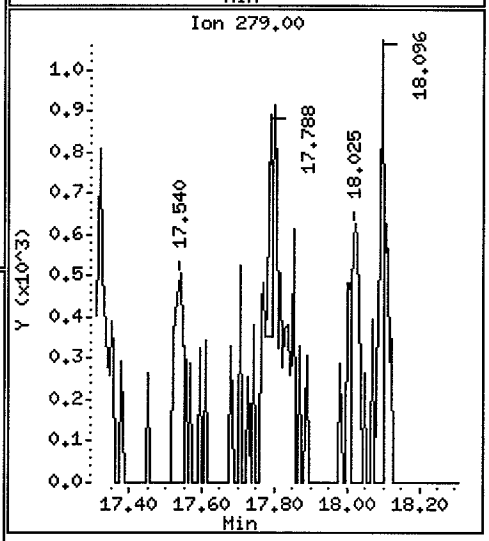
34 Dibenz(a,h)anthracene

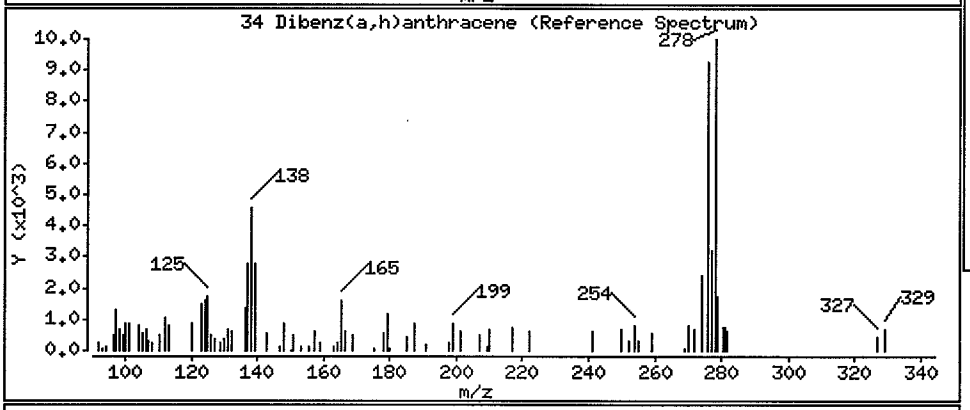
Concentration: 6.984 ug/kg

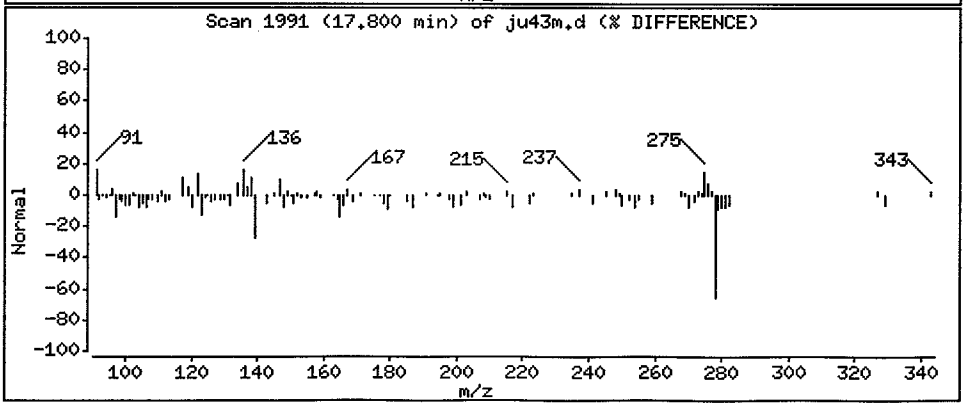












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

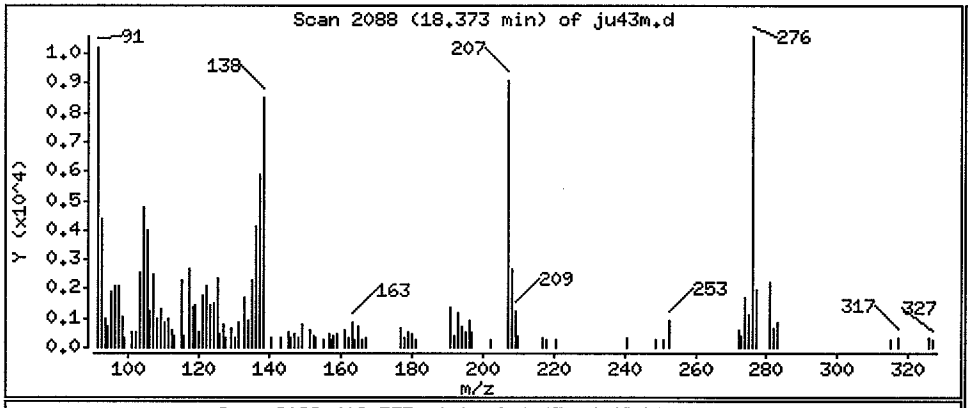
Operator: VTS

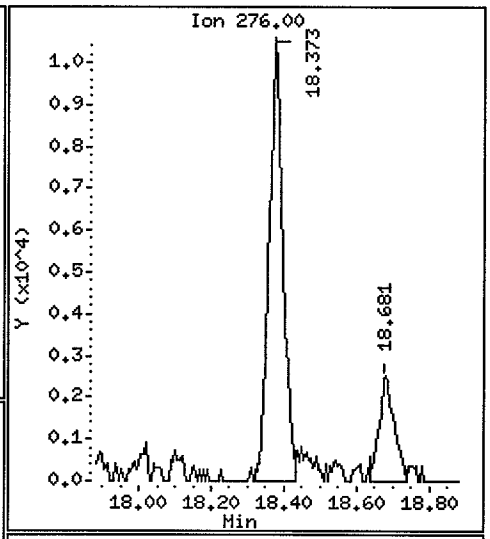
Column phase: ZB-5

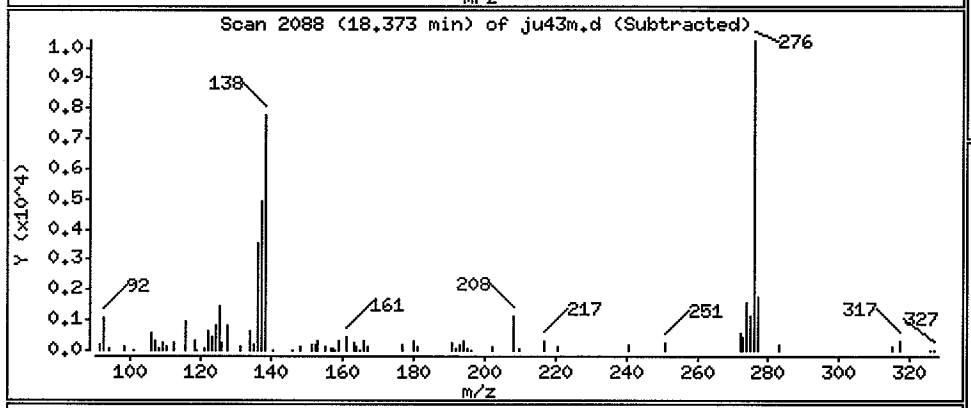
Column diameter: 0.25

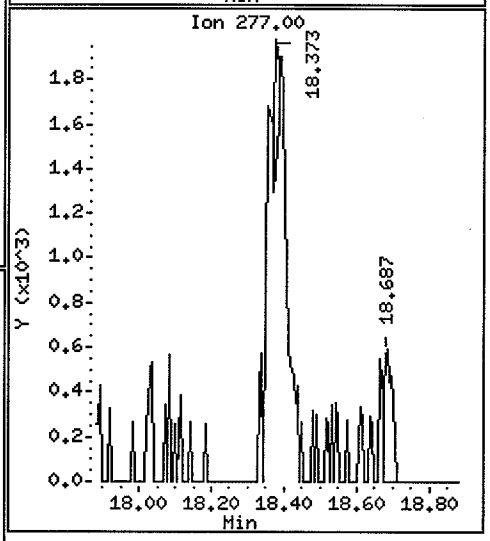
35 Benzo(g,h,i)perylene

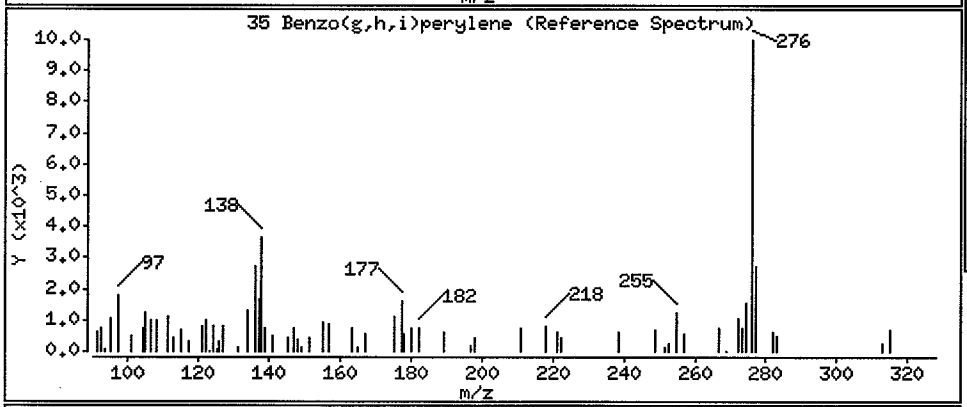
Concentration: 18.22 ug/kg

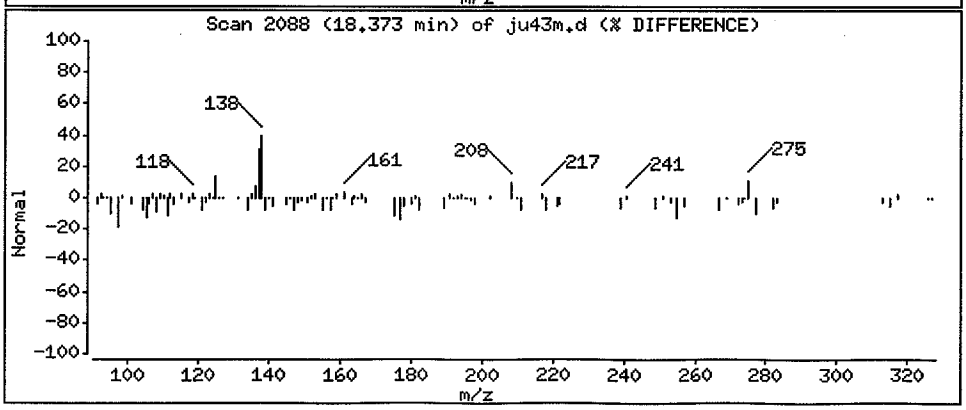












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

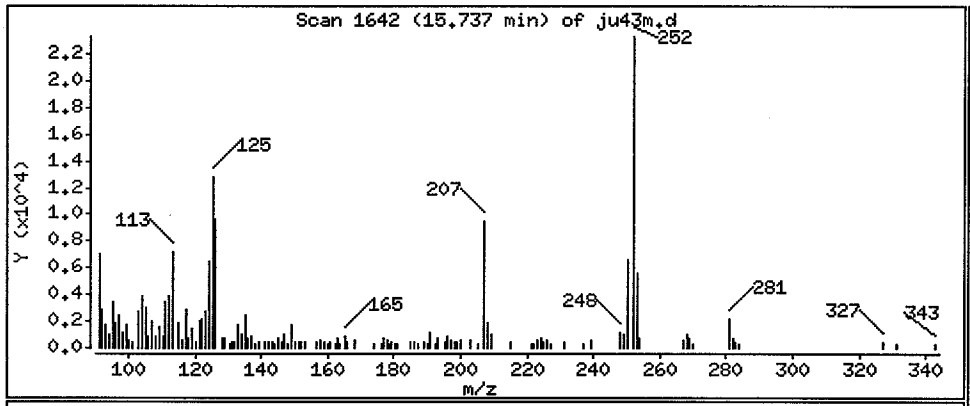
Operator: VTS

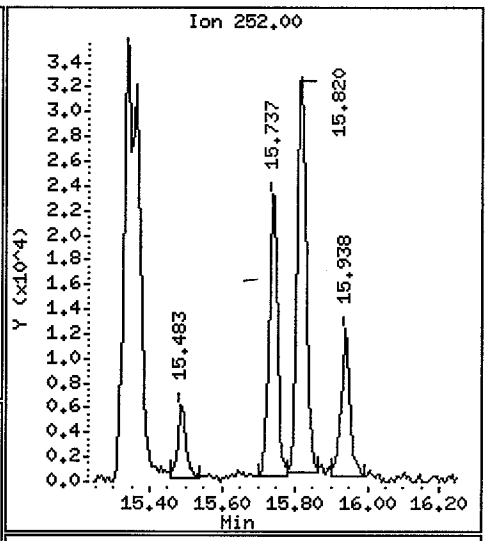
Column phase: ZB-5

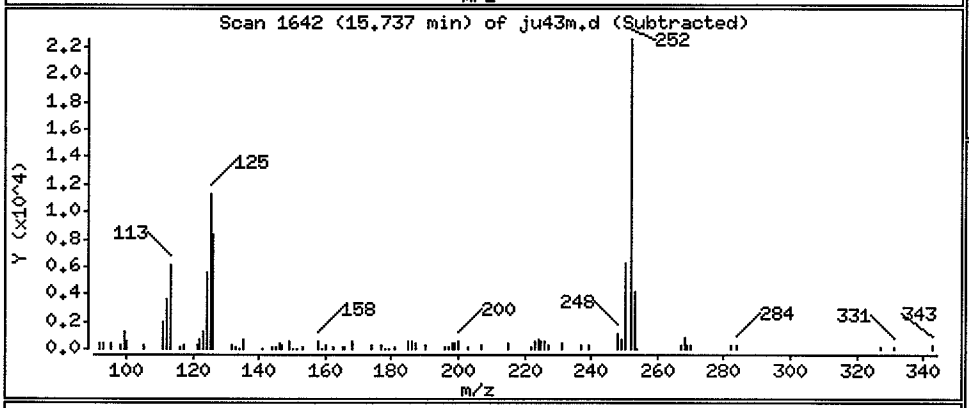
Column diameter: 0.25

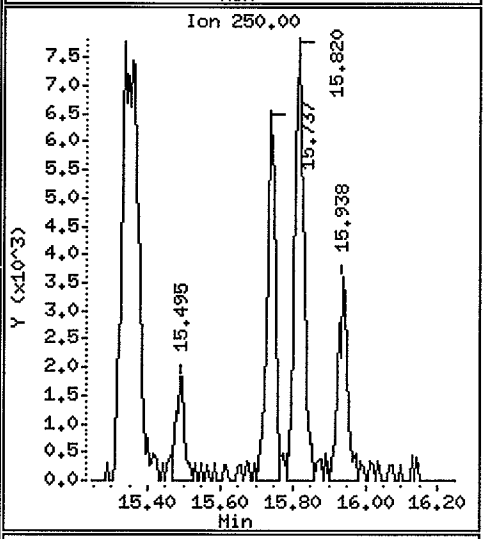
52 Benzo(e)pyrene

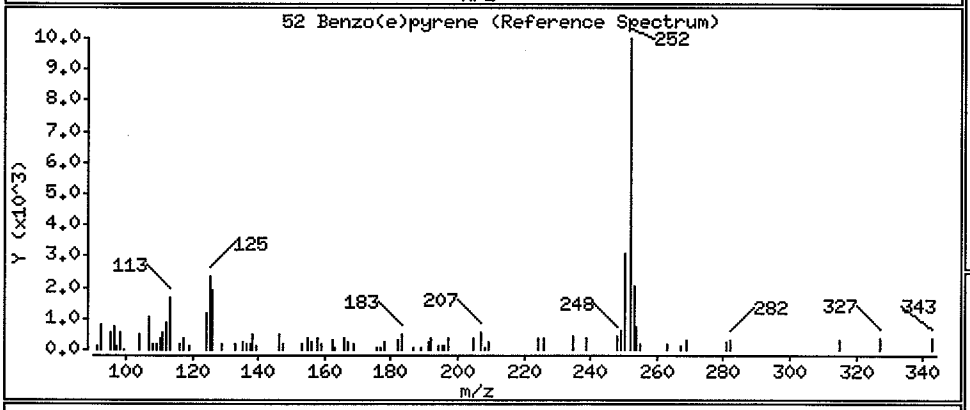
Concentration: 21.71 ug/kg

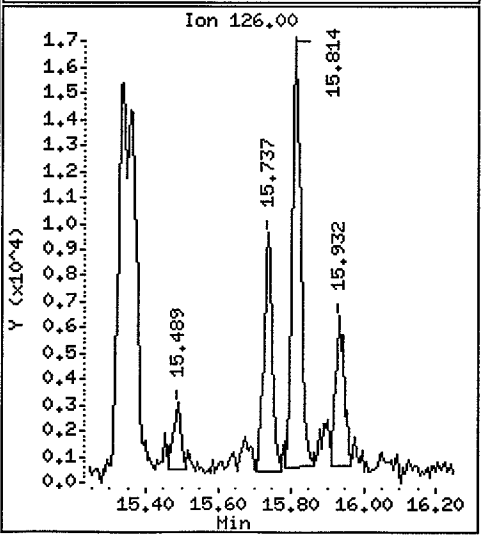


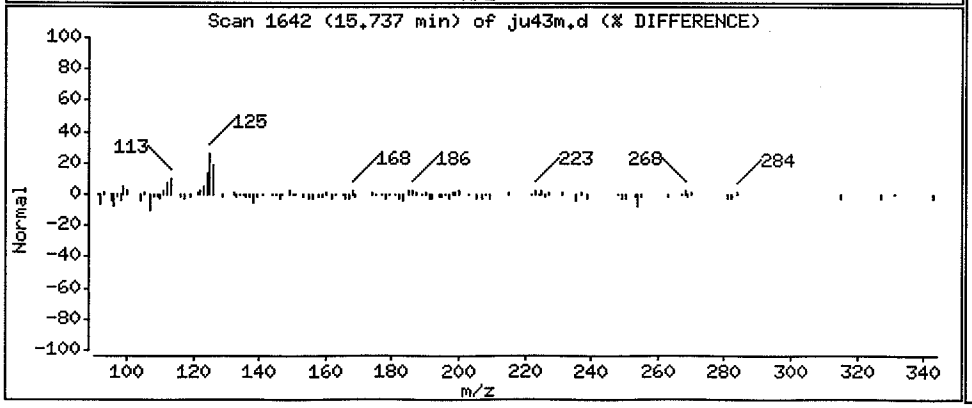












Data File: /chem3/nt1.i/20060912.b/ju43m.d

Date : 12-SEP-2006 20:03

Client ID: T4-S3-07-F

Instrument: nt1.i

Sample Info: JU43M

Volume Injected (uL): 1.0

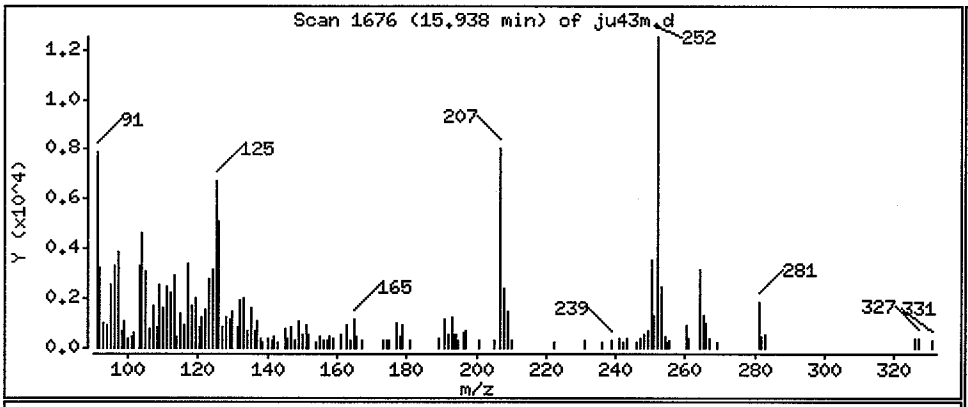
Operator: VTS

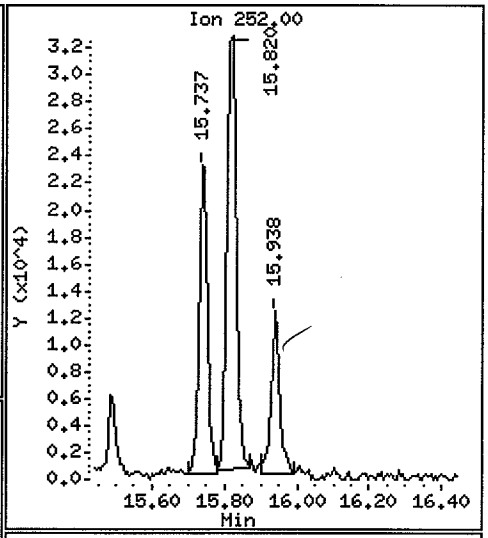
Column phase: ZB-5

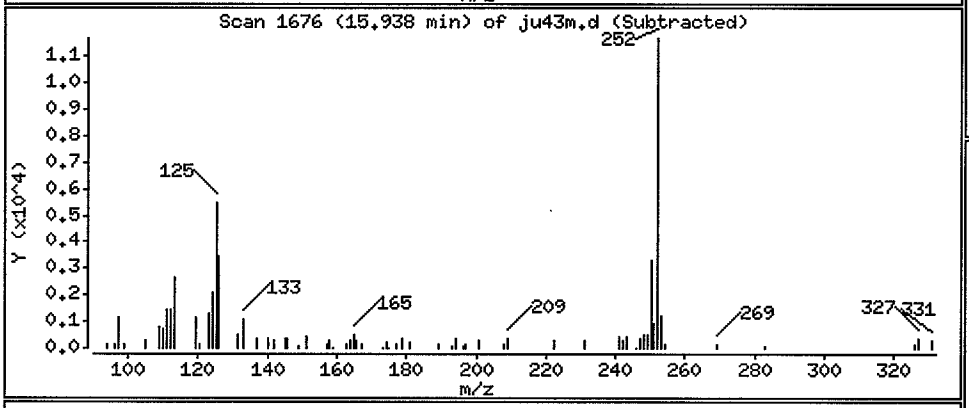
Column diameter: 0.25

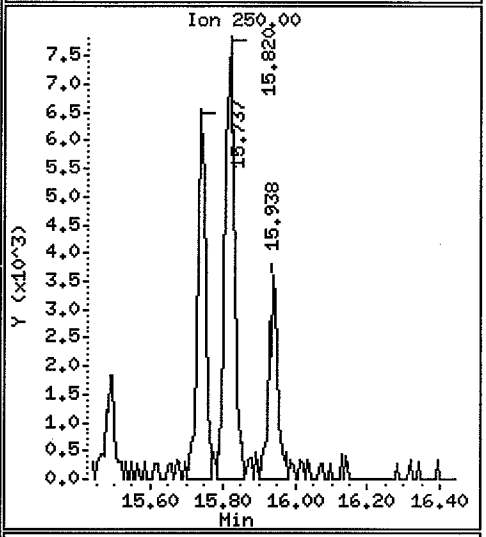
53 Perylene

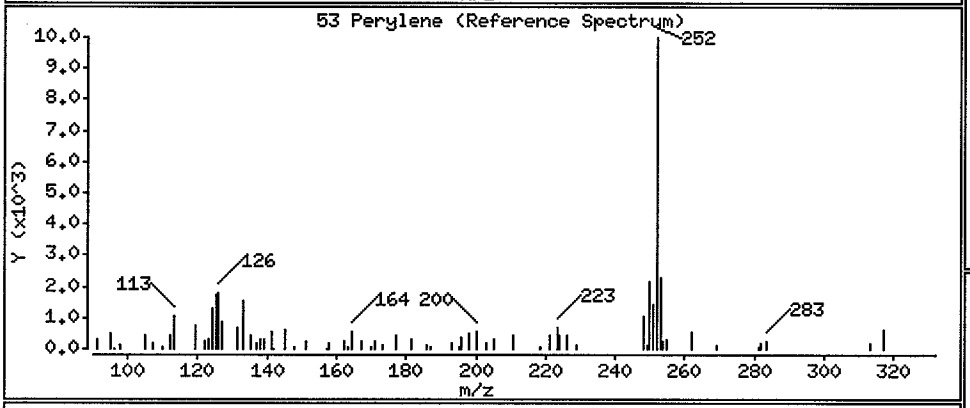
Concentration: 12.39 ug/kg

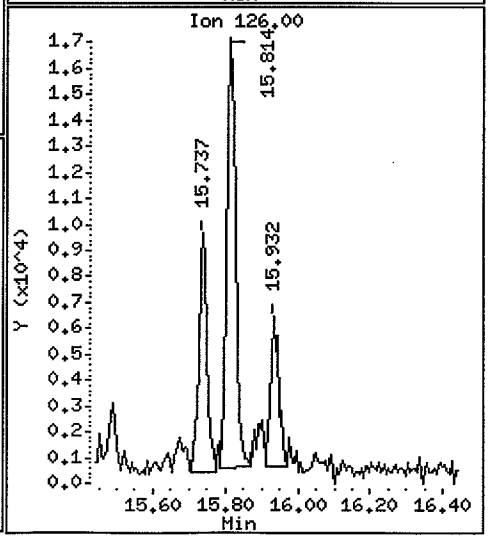


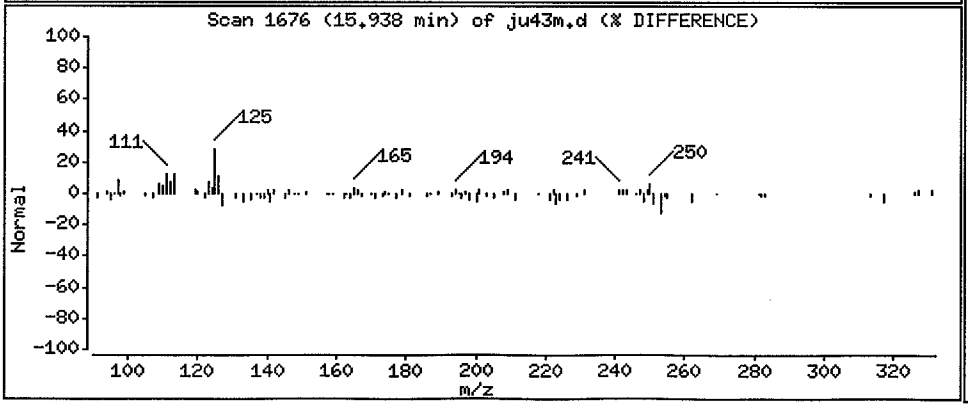












ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JU43N
LIMS ID: 06-15858
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 20:27
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 23.9%
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	< 4.8 U
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	Acenaphthylene	4.8	< 4.8 U
83-32-9	Acenaphthene	4.8	< 4.8 U
86-73-7	Fluorene	4.8	< 4.8 U
85-01-8	**Phenanthrene**	**4.8**	**5.3**
120-12-7	Anthracene	4.8	< 4.8 U
206-44-0	**Fluoranthene**	**4.8**	**14**
129-00-0	**Pyrene**	**4.8**	**12**
56-55-3	**Benzo(a)anthracene**	**4.8**	**8.7**
218-01-9	**Chrysene**	**4.8**	**11**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**13**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**7.8**
50-32-8	**Benzo(a)pyrene**	**4.8**	**10**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**5.3**
53-70-3	Dibenz(a,h)anthracene	4.8	< 4.8 U
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**4.8**
198-55-0	Perylene	4.9	< 4.9 U
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.8	< 4.8 U
832-69-9	1-Methylphenanthrene	4.8	< 4.8 U
192-97-2	**Benzo(e)pyrene**	**4.8**	**7.8**
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.7%
d14-Dibenzo(a,h)anthracen	84.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43n.d
Lab Smp Id: JU43N Client Smp ID: T4-S3-04-E
Inj Date : 12-SEP-2006 20:27
Operator : VTS Inst ID: nt1.i
Smp Info : JU43N
Misc Info : 06-15858
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.50000	Weight of sample extracted (g)
M	23.90000	% 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	6.811	6.808	(1.000)	323629	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	7.568	7.564	(1.111)	201299	2.50842	122.1
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.868	8.871	(1.000)	158154	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	10.677	10.679	(1.000)	196958	2.00000	
	16 Phenanthrene	178	10.706	10.709	(1.003)	12125	✓ 0.11357	5.527
	17 Anthracene	178	Compound Not Detected.					
	19 Fluoranthene	202	12.195	12.198	(1.142)	25379	✓ 0.27849	13.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.485	12.488	(0.893)	26245	0.23822	11.59
	22 Benzo(a)anthracene	228	13.968	13.965	(0.999)	16949	0.18060	8.790
*	23 Chrysene-d12	240	13.986	13.989	(1.000)	156535	2.00000	
	24 Chrysene	228	14.022	14.018	(1.003)	19371	0.21965	10.69
	28 Benzo(b)fluoranthene	252	15.334	15.336	(0.964)	24300	0.27445	13.36
	29 Benzo(k)fluoranthene	252	15.363	15.366	(0.966)	14949	0.16167	7.868(M)
	30 Benzo(a)pyrene	252	15.818	15.821	(0.995)	17123	0.21441	10.44
*	31 Perylene-d12	264	15.901	15.898	(1.000)	156355	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.810	17.813	(1.120)	9802	0.11433	5.565
$	32 Dibenz(a,h)anthrancene-d14	292	17.733	17.736	(1.115)	129544	2.52832	123.1
	34 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	35 Benzo(g,h,i)perylene	276	18.377	18.380	(1.156)	7715	0.10183	4.956(M)
	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	15.742	15.744	(0.990)	14000	0.15736	7.659
	53 Perylene	252	15.942	15.939	(1.003)	6454	0.07774	3.784

QC Flag Legend

M - Compound response manually integrated.

JTS
9-13-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43n.d
Lab Smp Id: JU43N
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15858

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-04-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	323629	-5.25
8 Acenaphthene-d10	169375	84688	338750	158154	-6.62
15 Phenanthrene-d10	232185	116092	464370	196958	-15.17
23 Chrysene-d12	179856	89928	359712	156535	-12.97
31 Perylene-d12	175373	87686	350746	156355	-10.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.05
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.03
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	-0.02
23 Chrysene-d12	13.99	13.49	14.49	13.99	-0.02
31 Perylene-d12	15.90	15.40	16.40	15.90	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

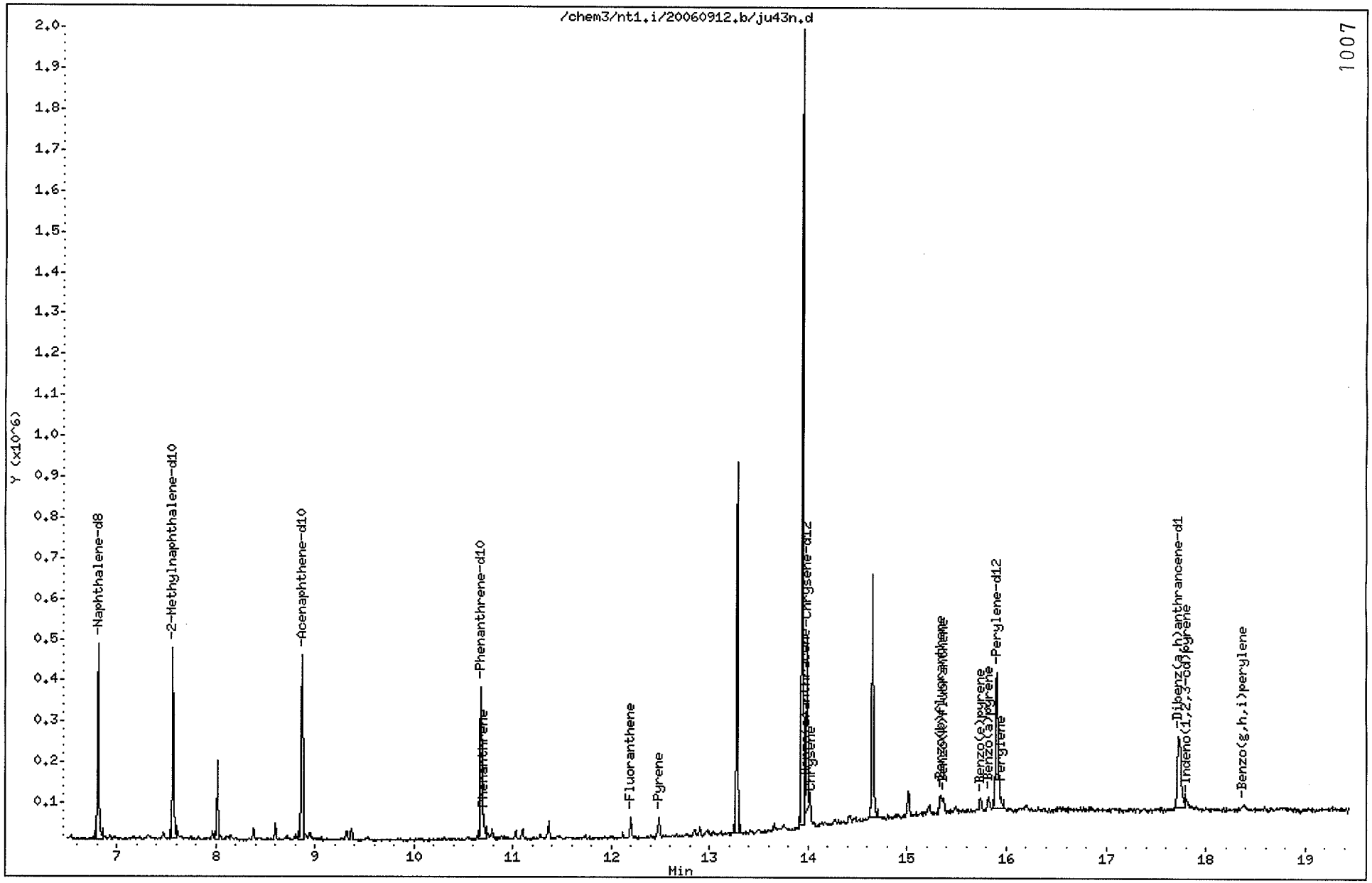
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43N
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15858

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-04-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	146.0	122.1	83.61	32-97
$ 32 Dibenz(a,h)anthran	146.0	123.1	84.28	21-105

Data File: /chem3/nt1.i/20060912.b/ju43n.d
Date : 12-SEP-2006 20:27
Client ID: T4-S3-04-E
Sample Info: JU43N
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

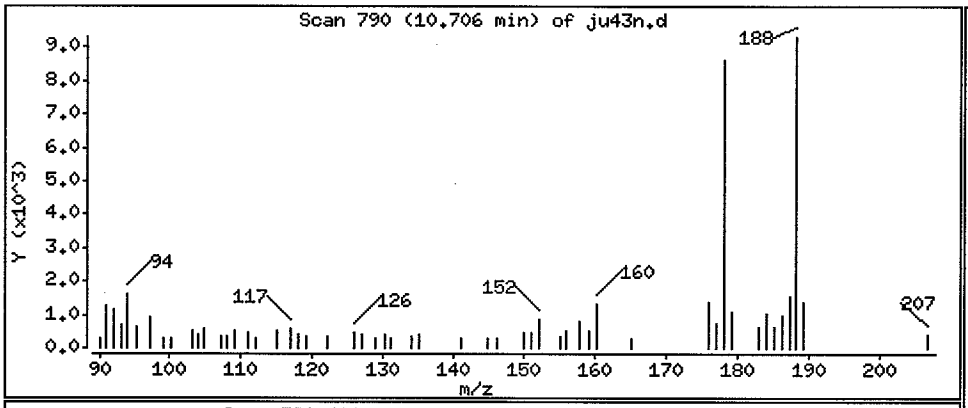
Operator: VTS

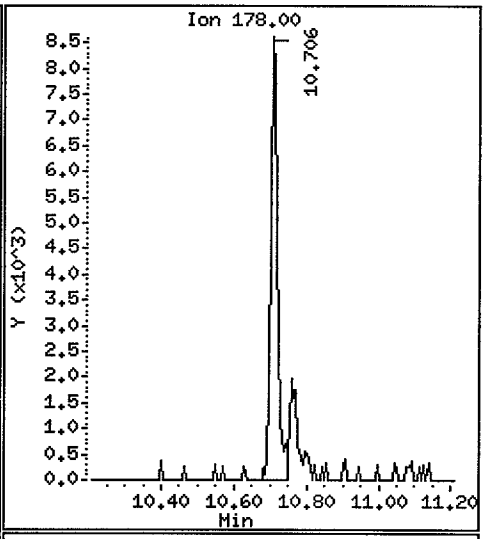
Column phase: ZB-5

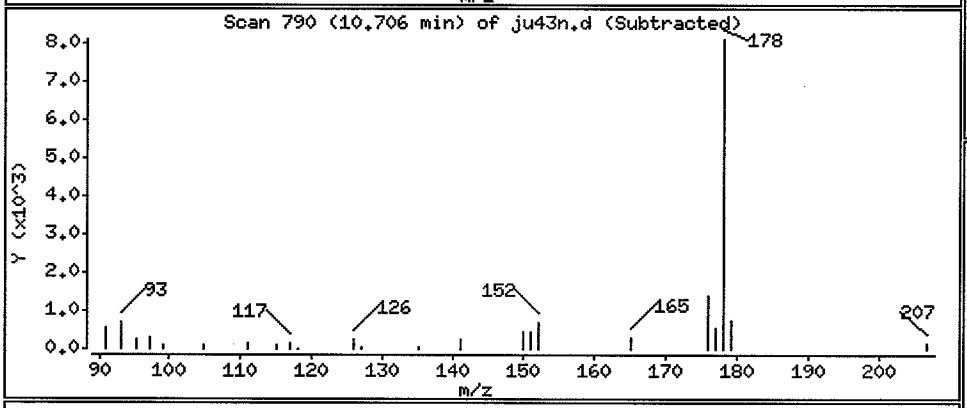
Column diameter: 0.25

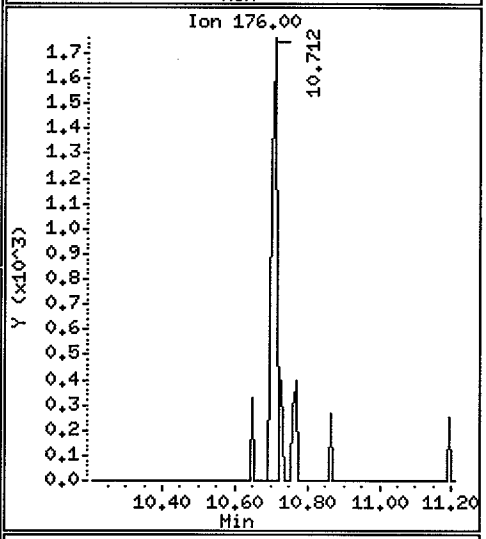
16 Phenanthrene

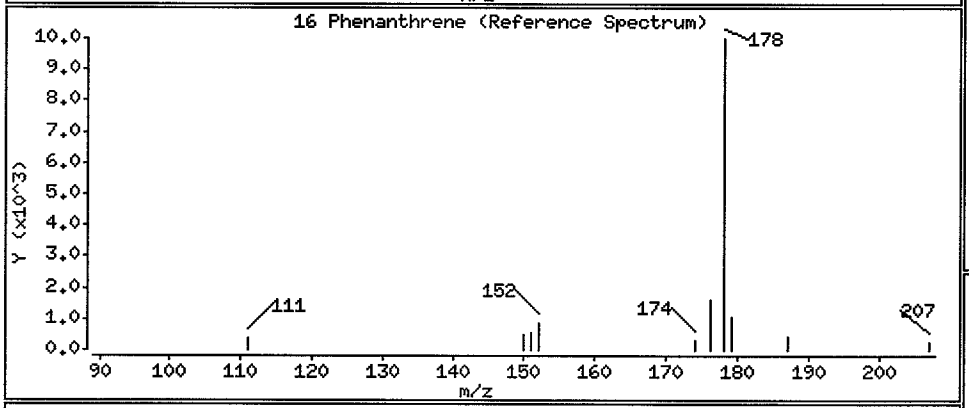
Concentration: 5.527 ug/kg

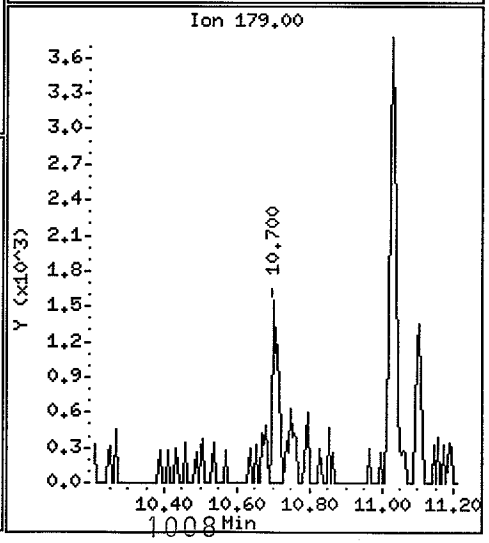


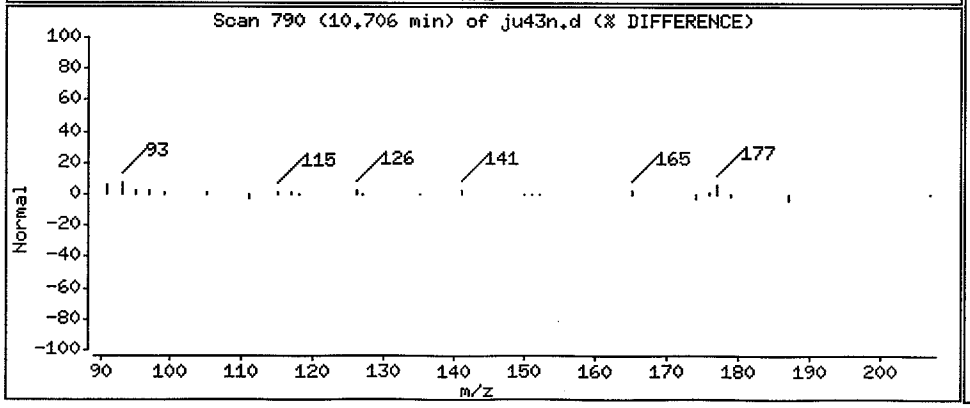












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

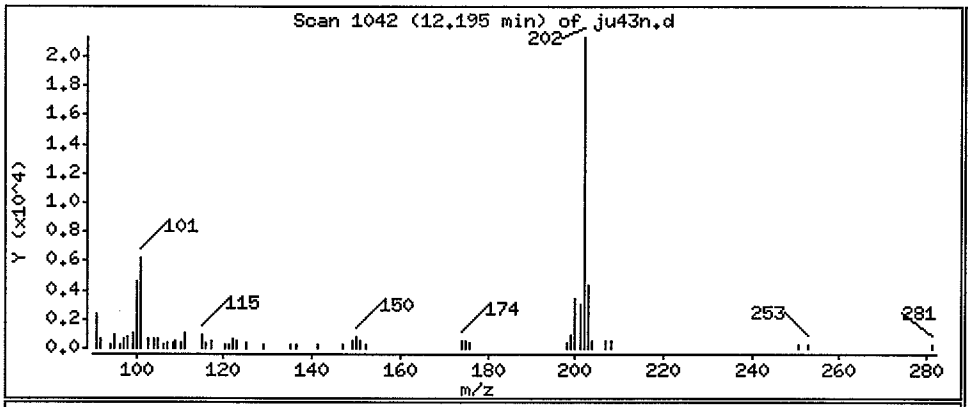
Operator: VTS

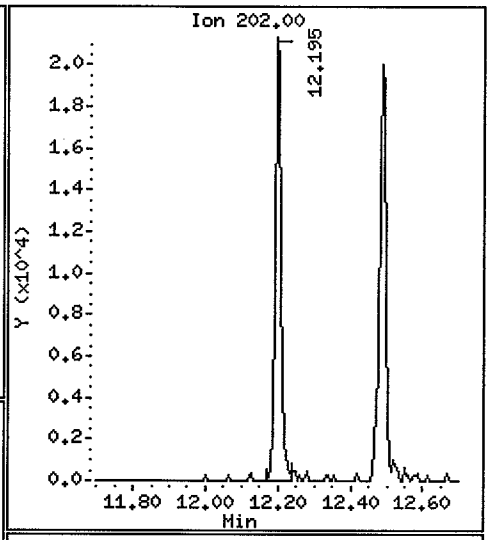
Column phase: ZB-5

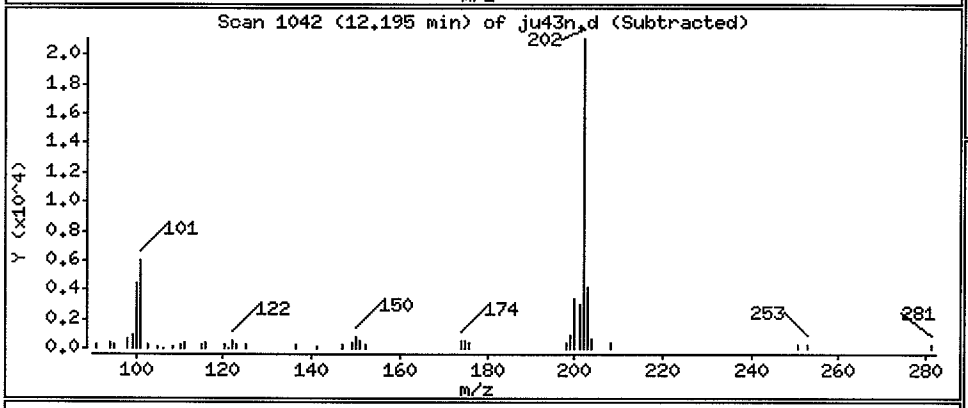
Column diameter: 0.25

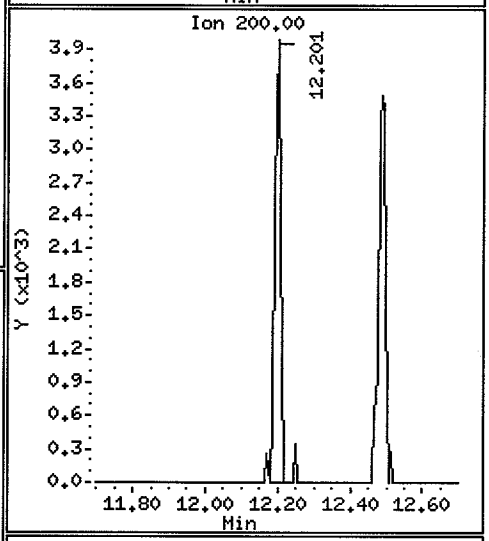
19 Fluoranthene

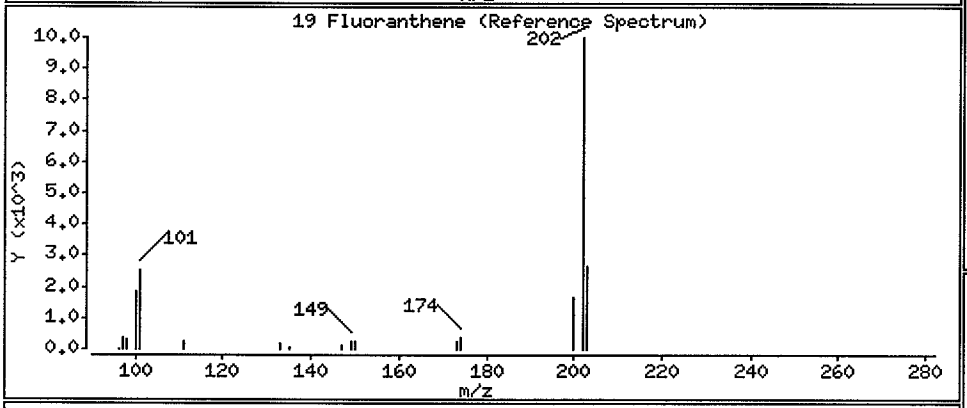
Concentration: 13.55 ug/kg

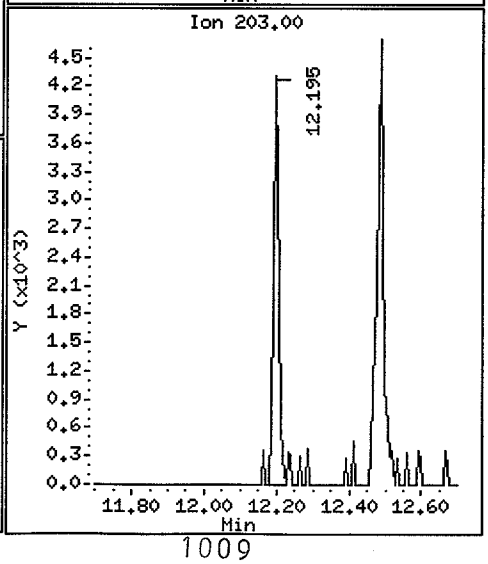


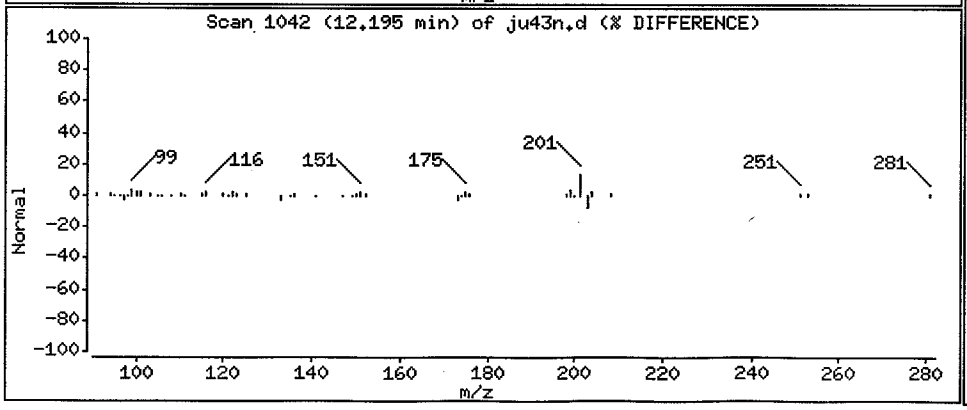












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

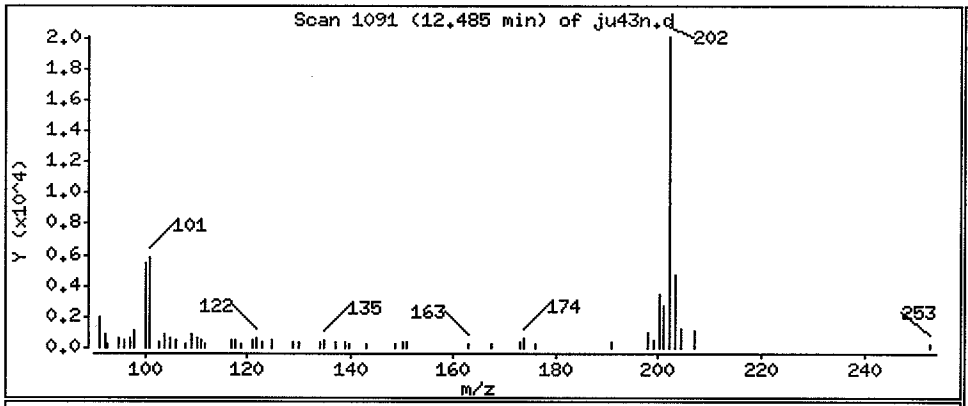
Operator: VTS

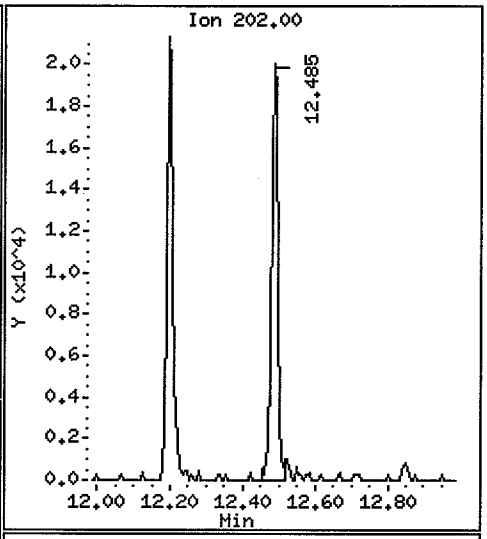
Column phase: ZB-5

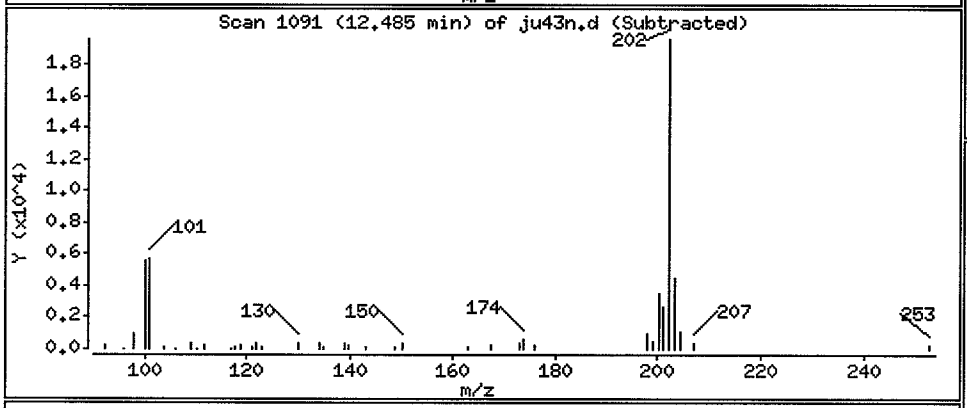
Column diameter: 0.25

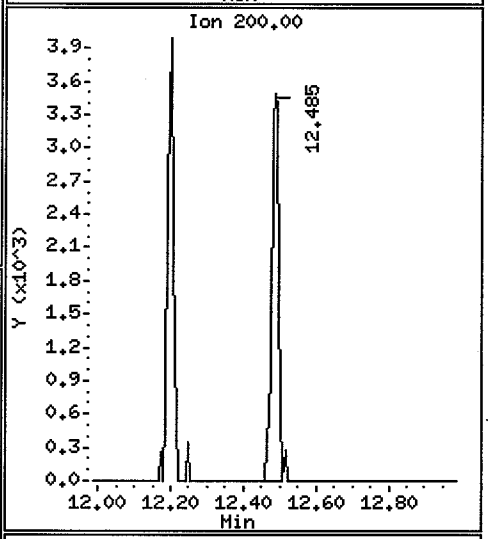
20 Pyrene

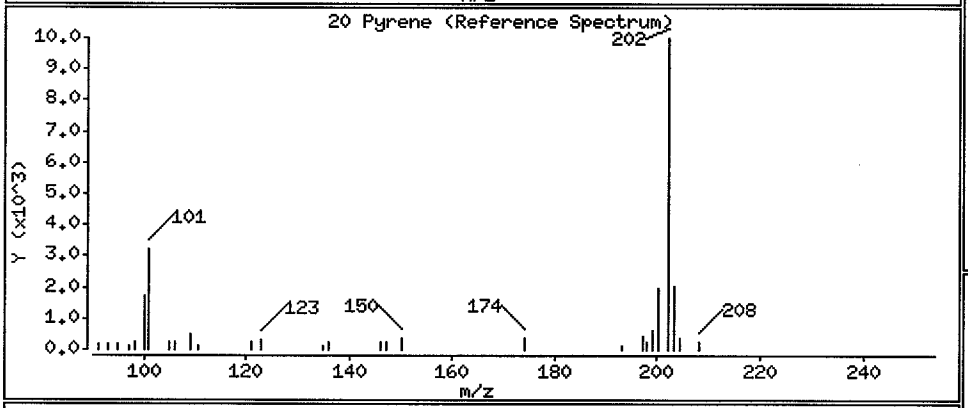
Concentration: 11.59 ug/kg

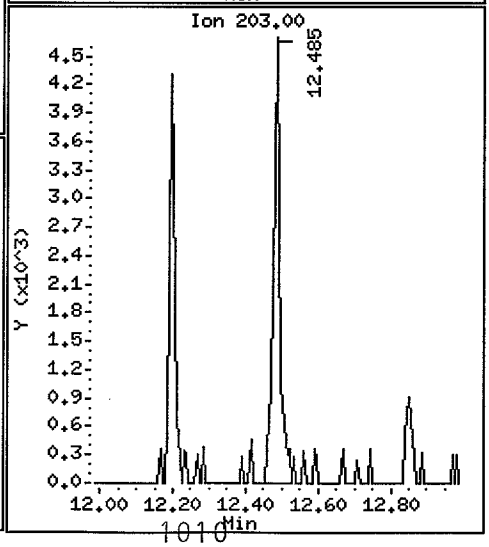


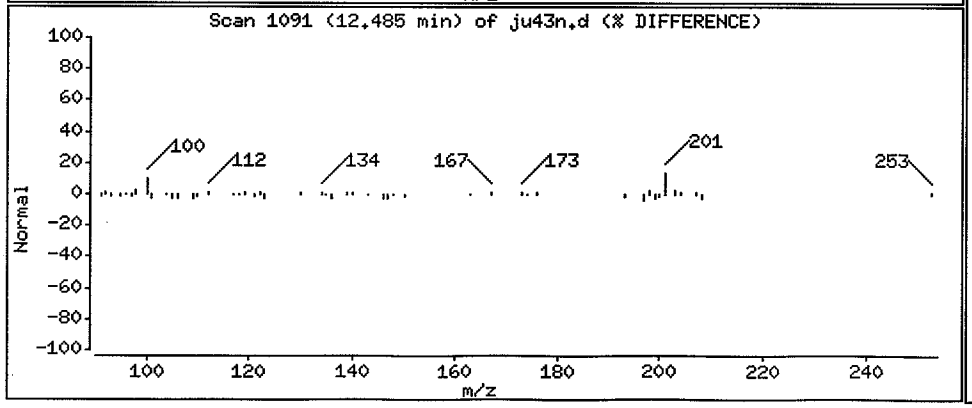












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

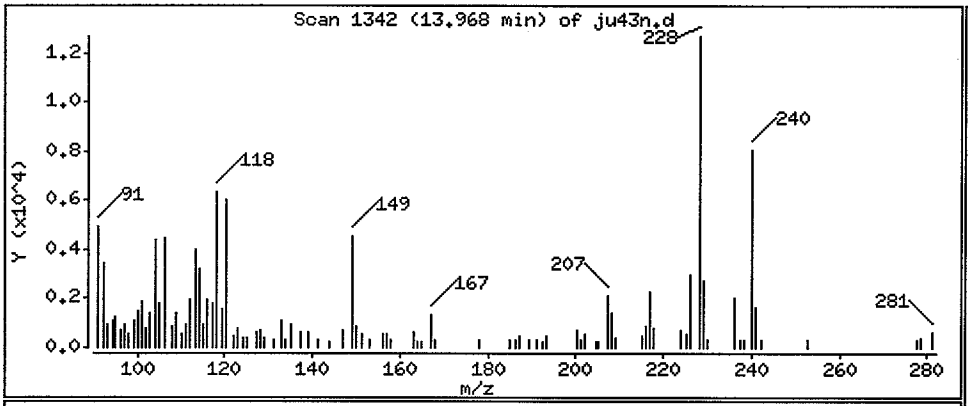
Operator: VTS

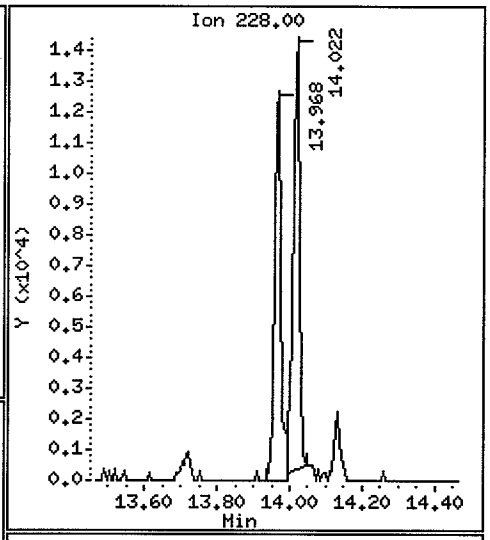
Column phase: ZB-5

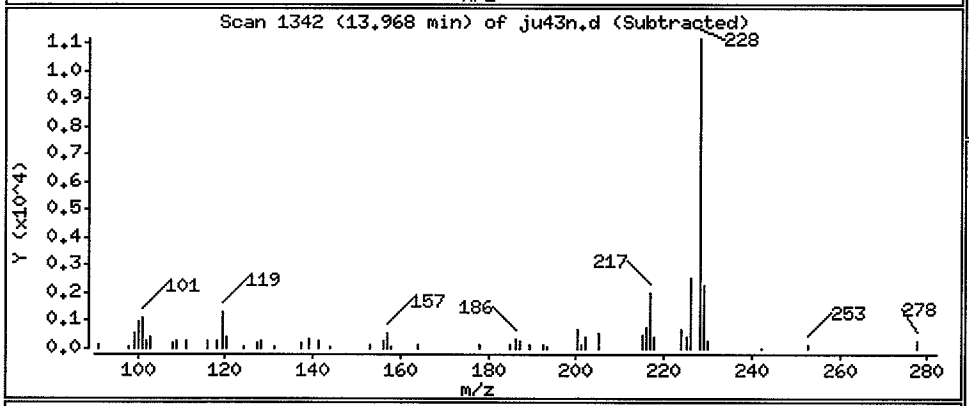
Column diameter: 0.25

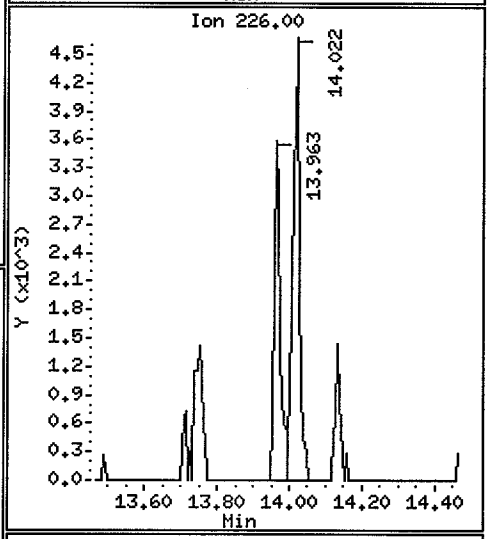
22 Benzo(a)anthracene

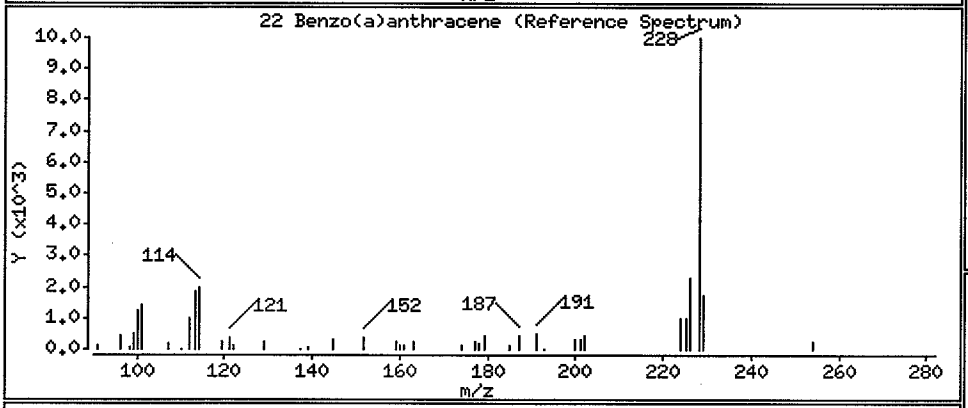
Concentration: 8.790 ug/kg

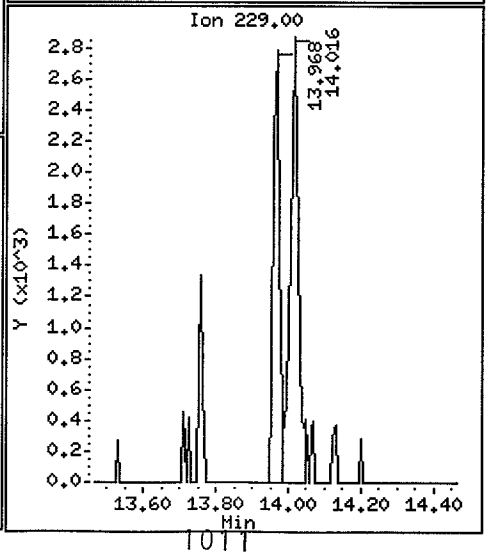


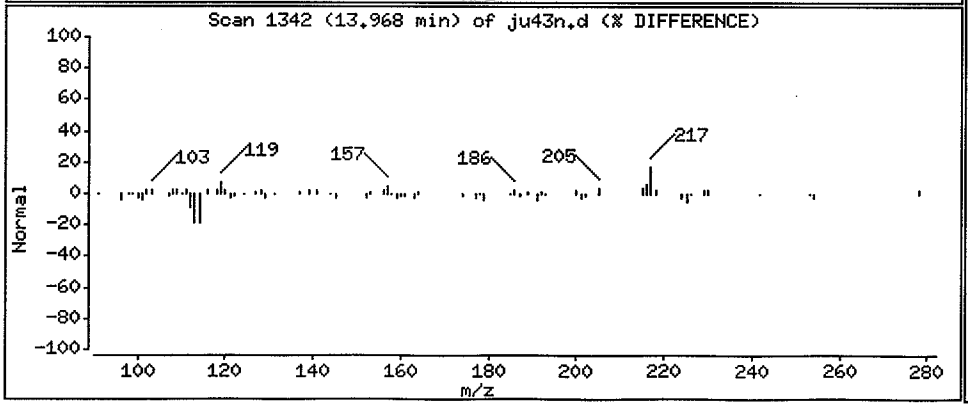












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

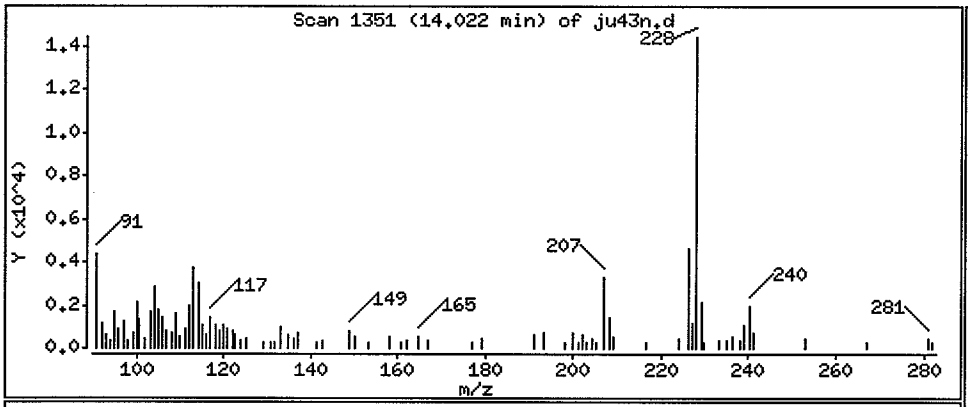
Operator: VTS

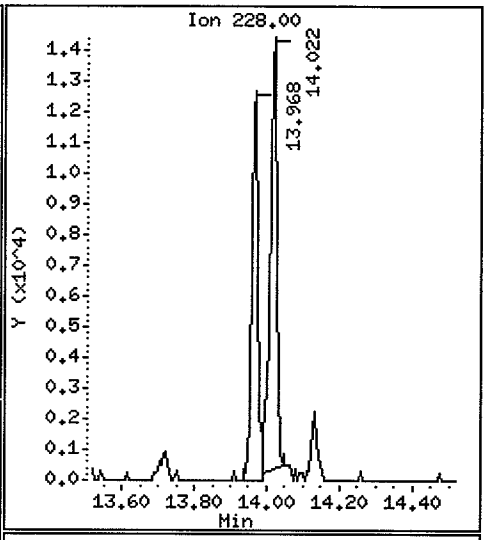
Column phase: ZB-5

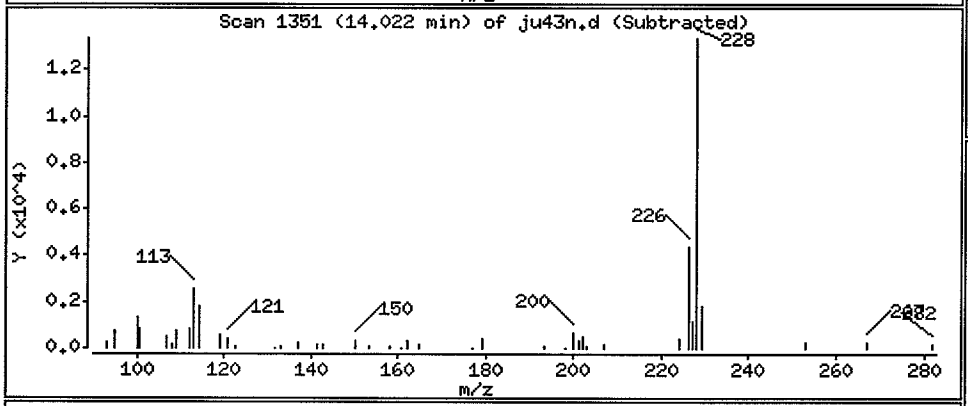
Column diameter: 0.25

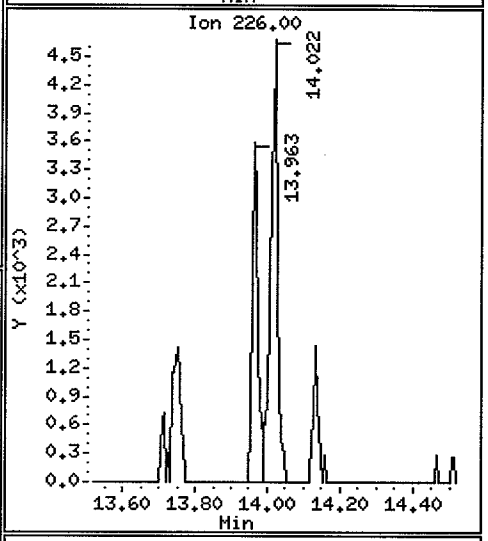
24 Chrysene

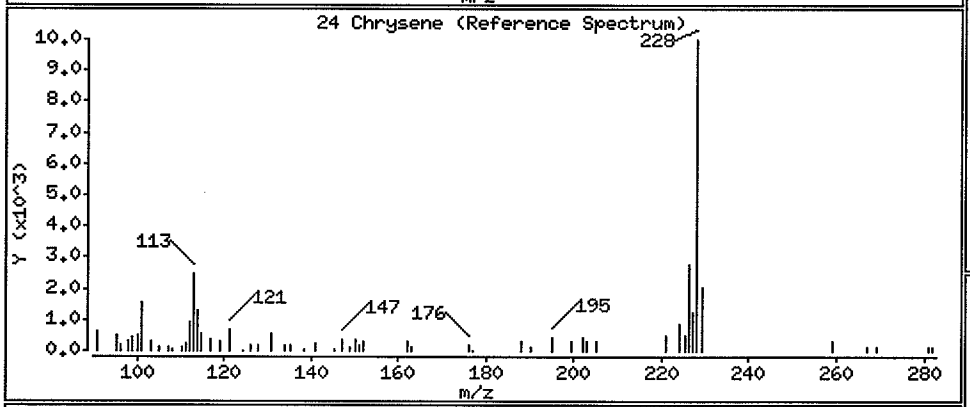
Concentration: 10.69 ug/kg

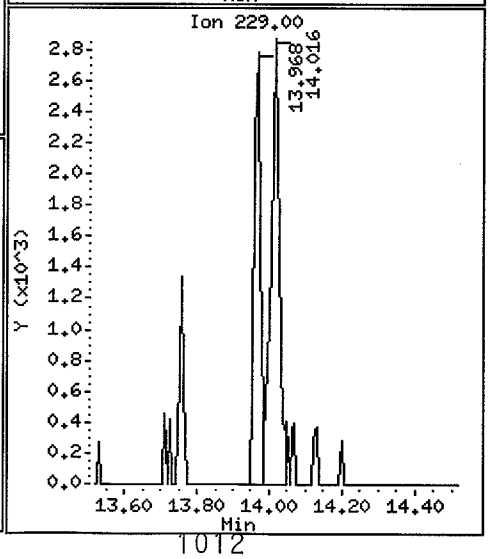


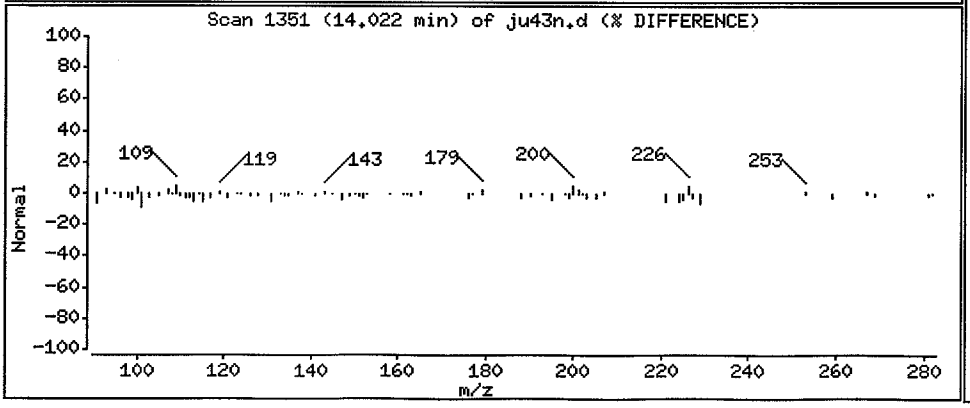












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

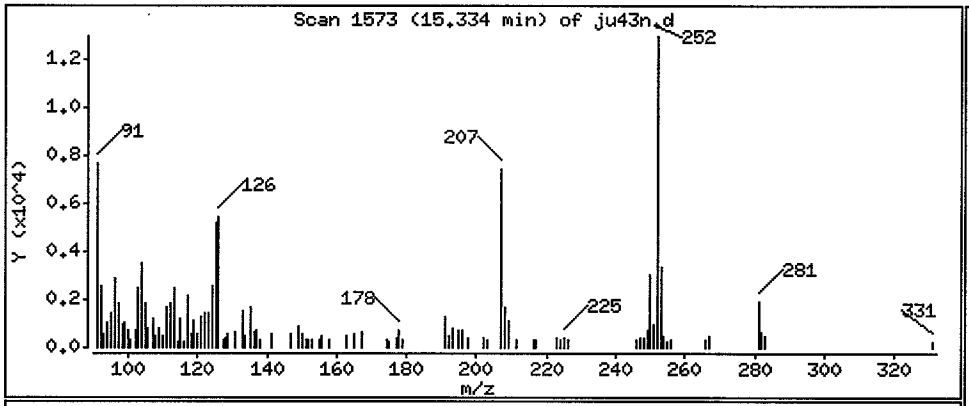
Operator: VTS

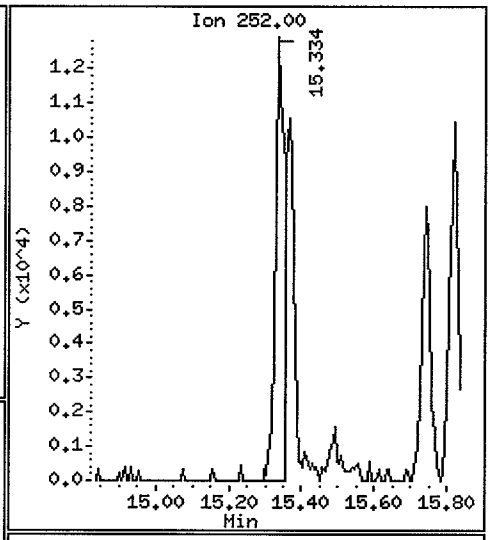
Column phase: ZB-5

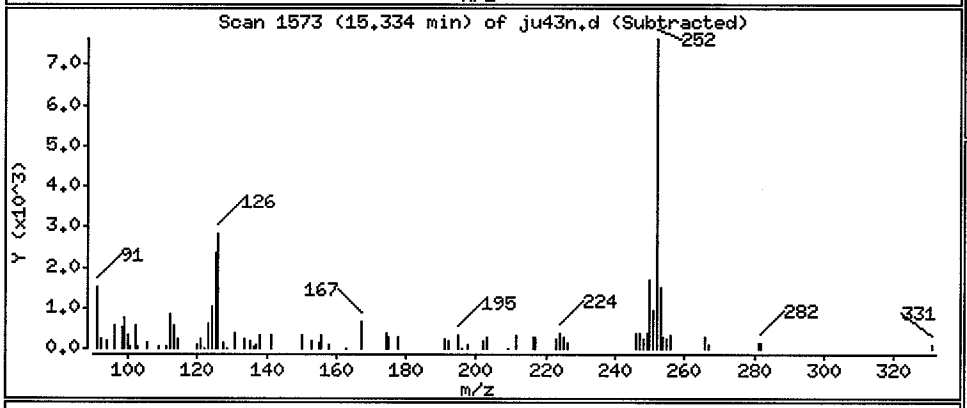
Column diameter: 0.25

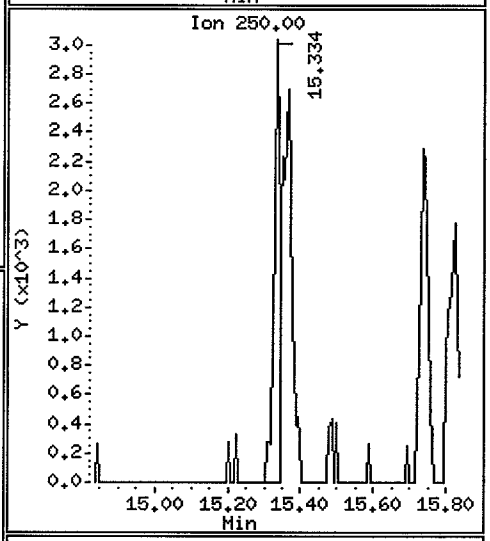
28 Benzo(b)fluoranthene

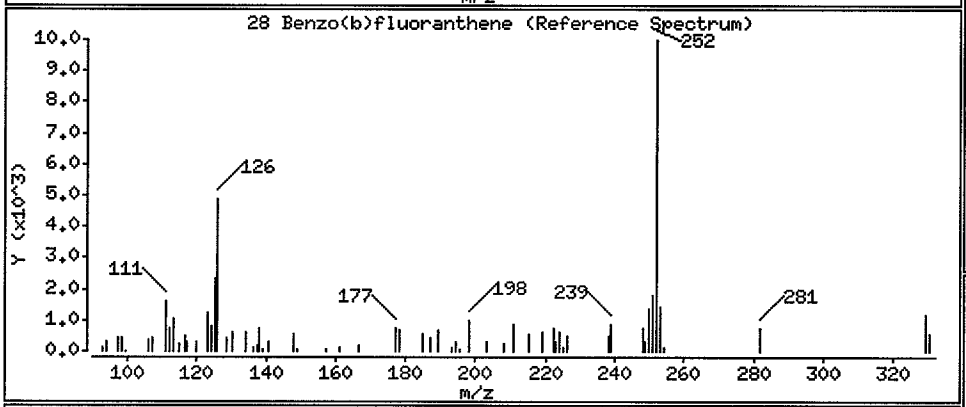
Concentration: 13.36 ug/kg

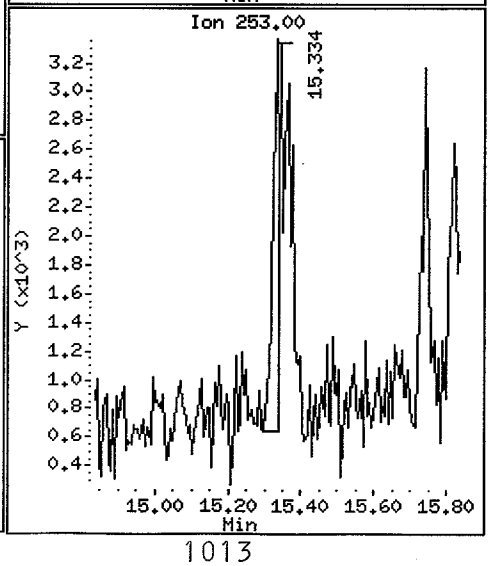


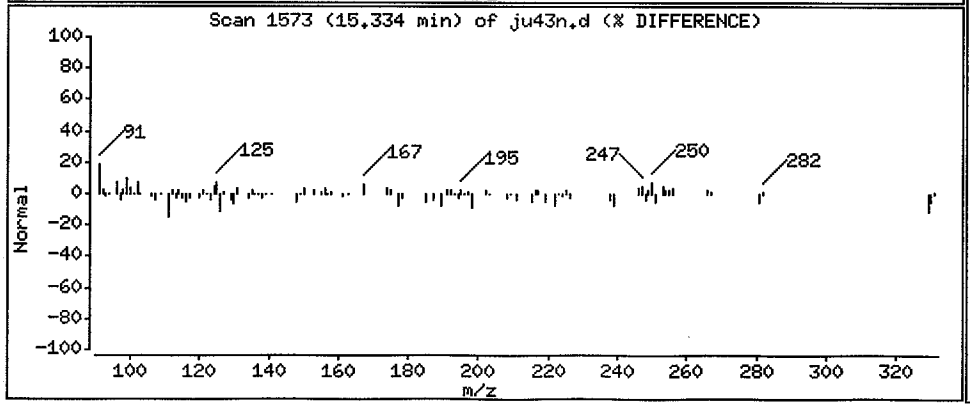












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

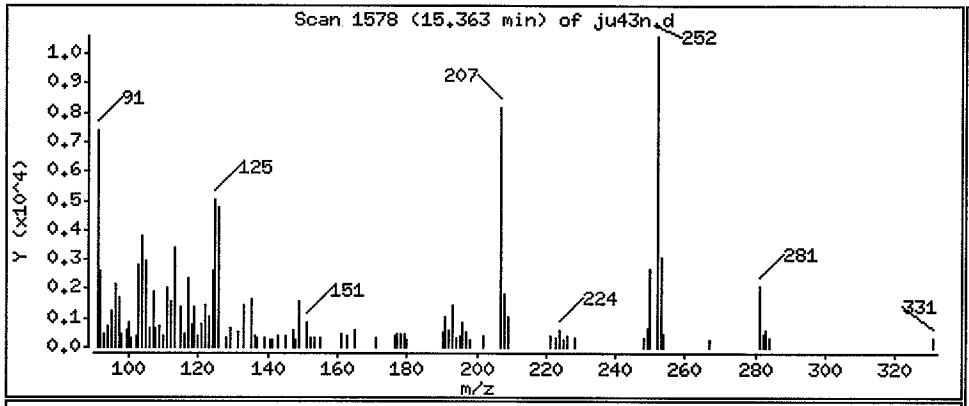
Operator: VTS

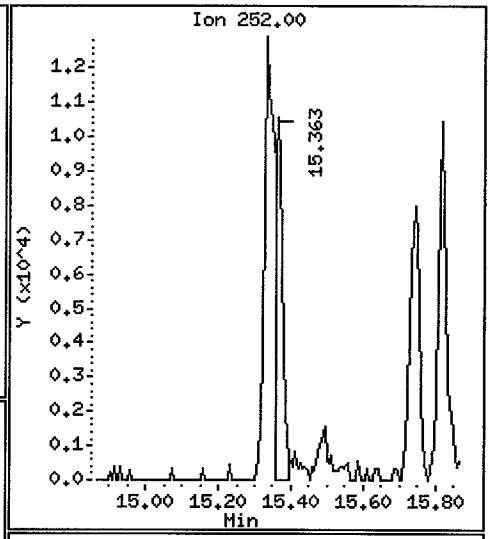
Column phase: ZB-5

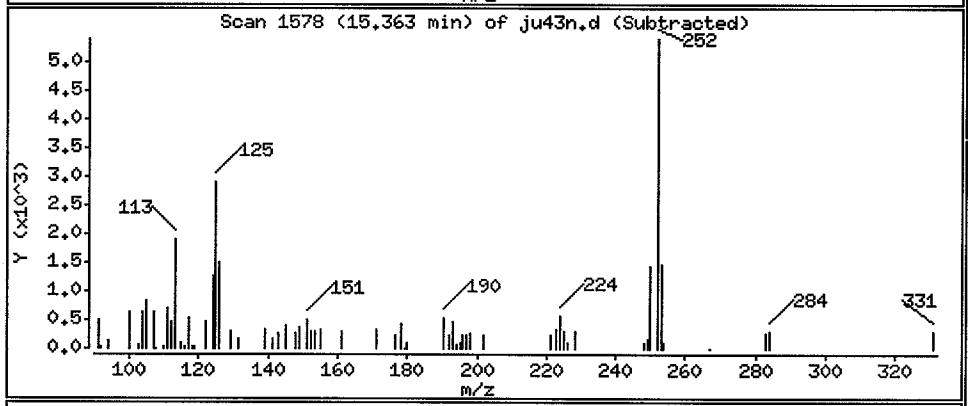
Column diameter: 0.25

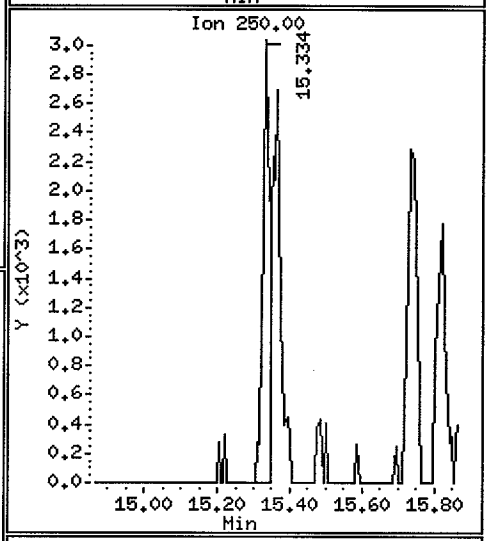
29 Benzo(k)fluoranthene

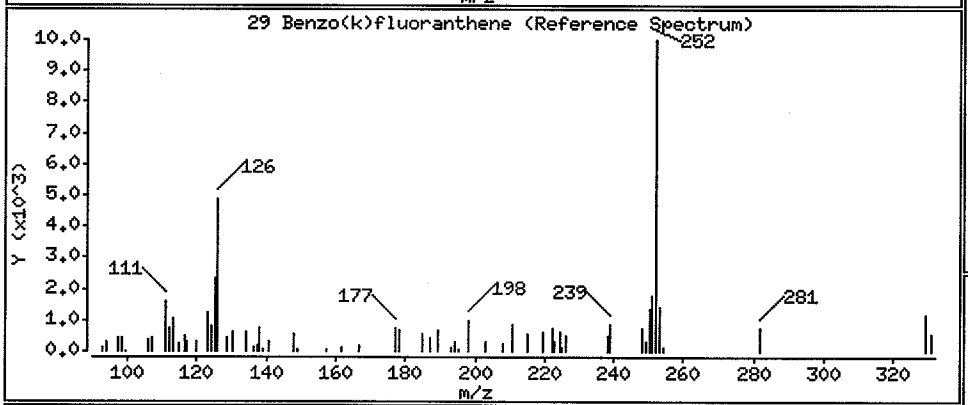
Concentration: 7.868 ug/kg

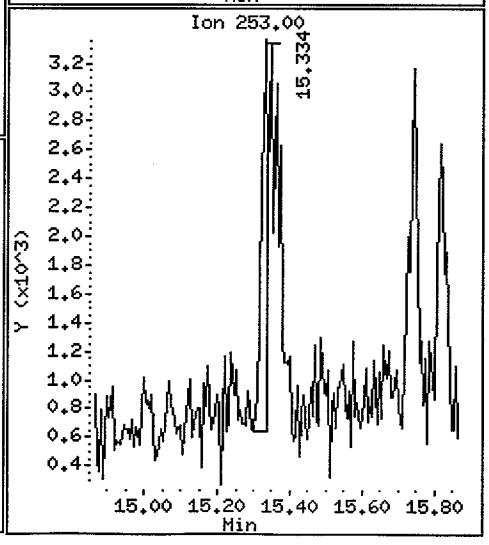


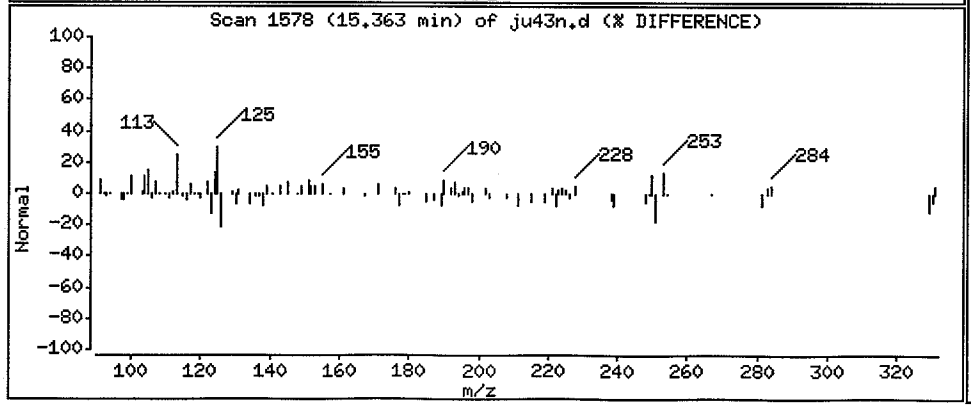












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

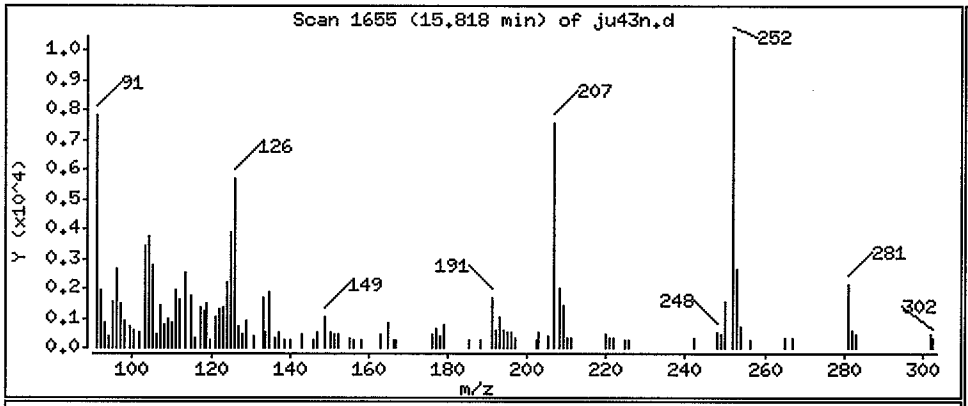
Operator: VTS

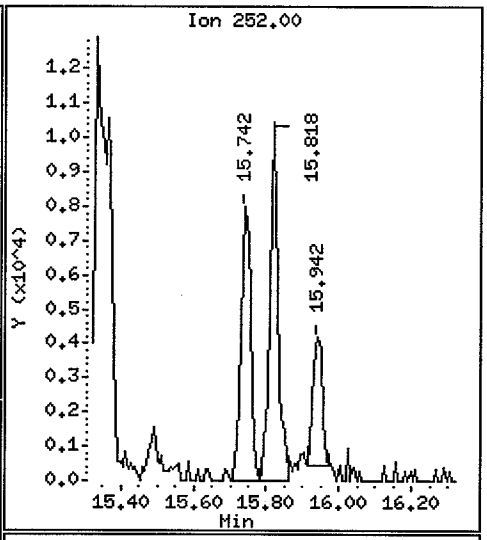
Column phase: ZB-5

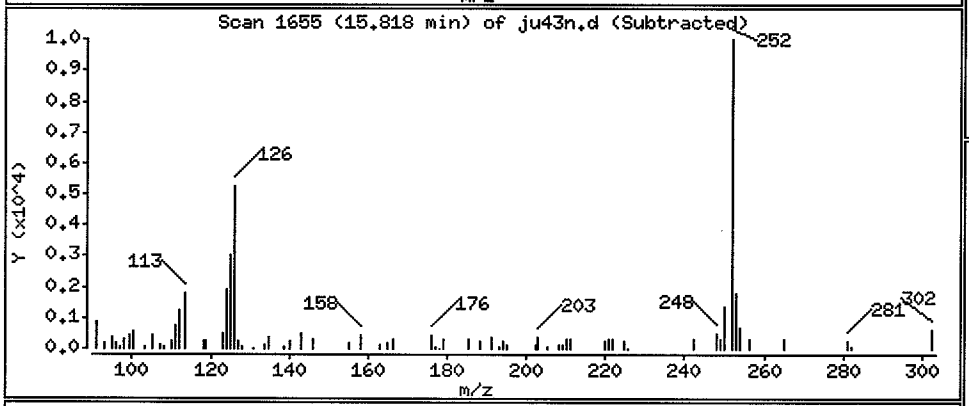
Column diameter: 0.25

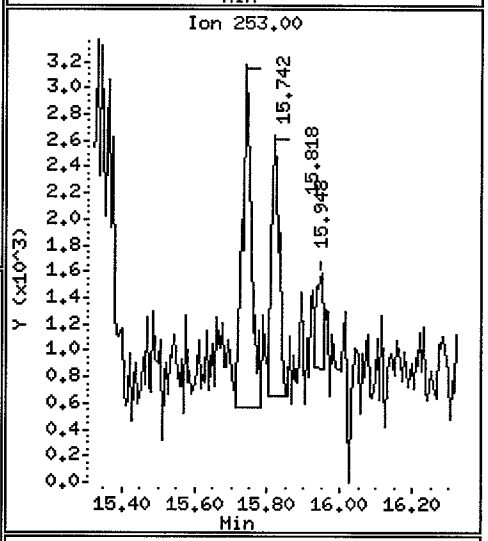
30 Benzo(a)pyrene

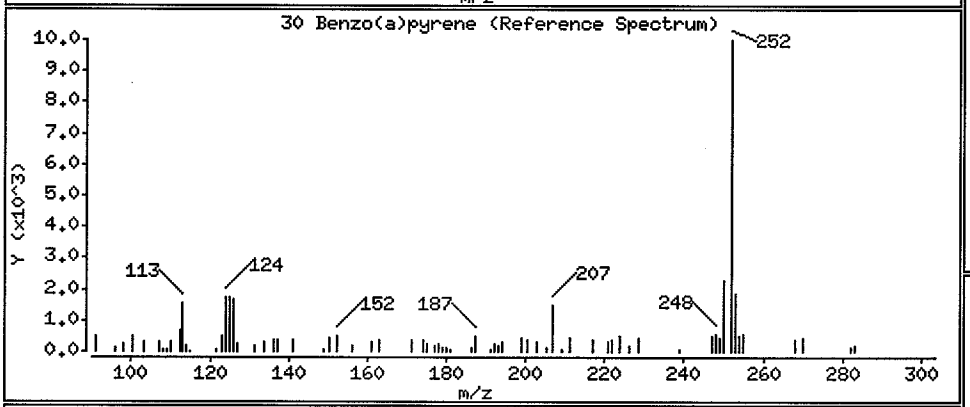
Concentration: 10.44 ug/kg

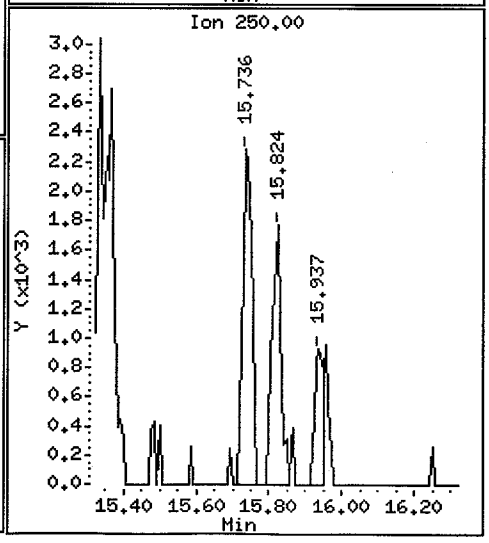


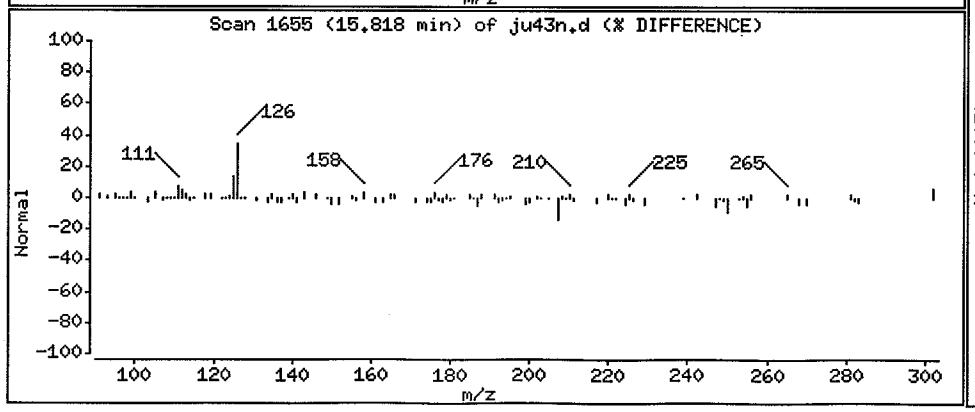












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

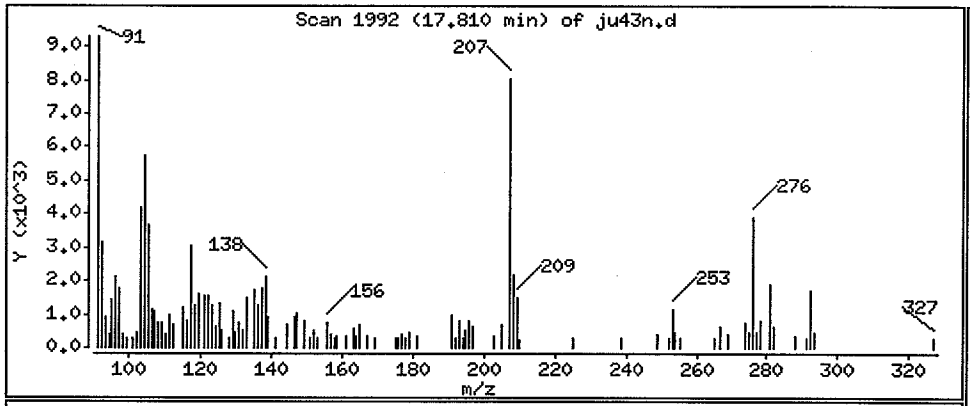
Operator: VTS

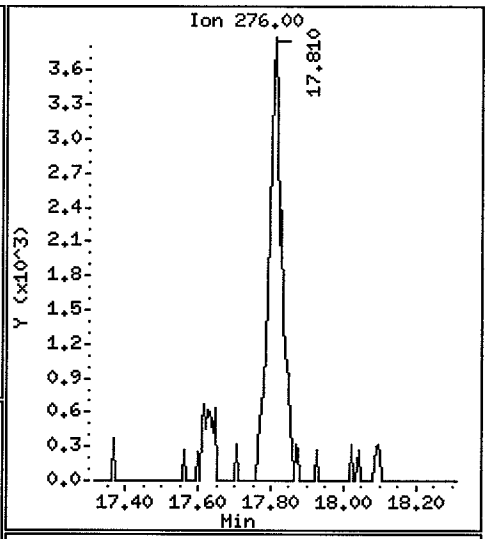
Column phase: ZB-5

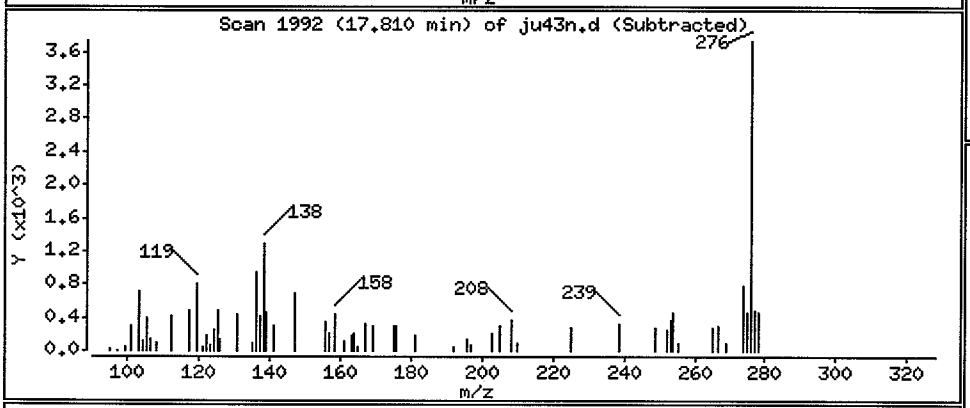
Column diameter: 0.25

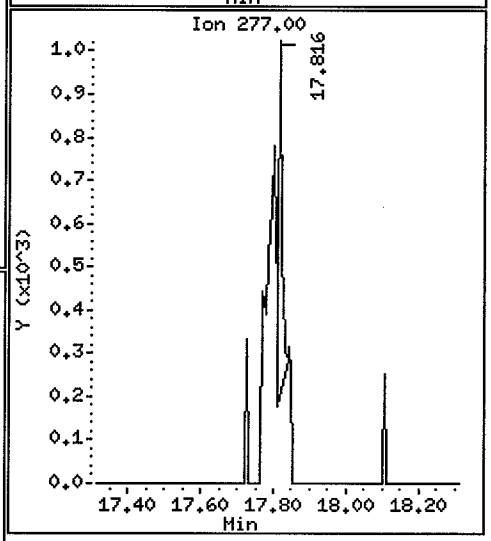
33 Indeno(1,2,3-cd)pyrene

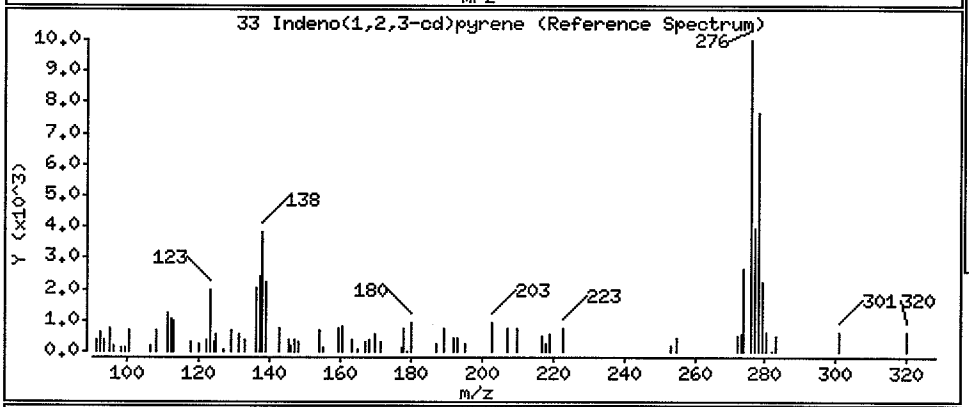
Concentration: 5.565 ug/kg

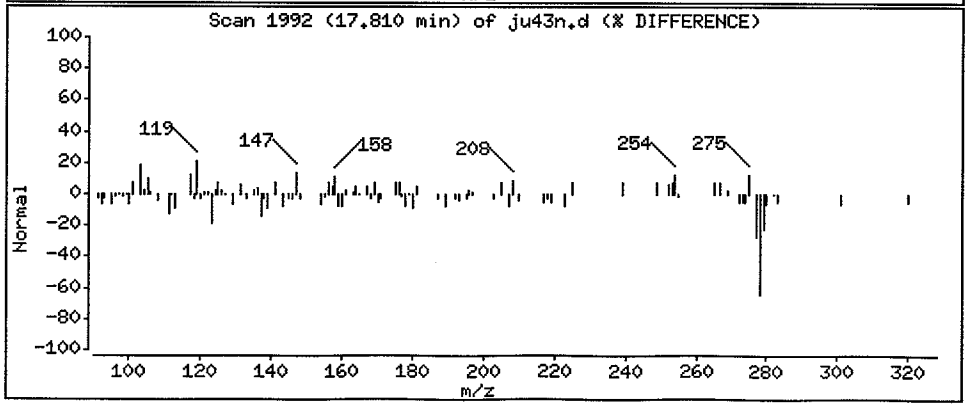












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

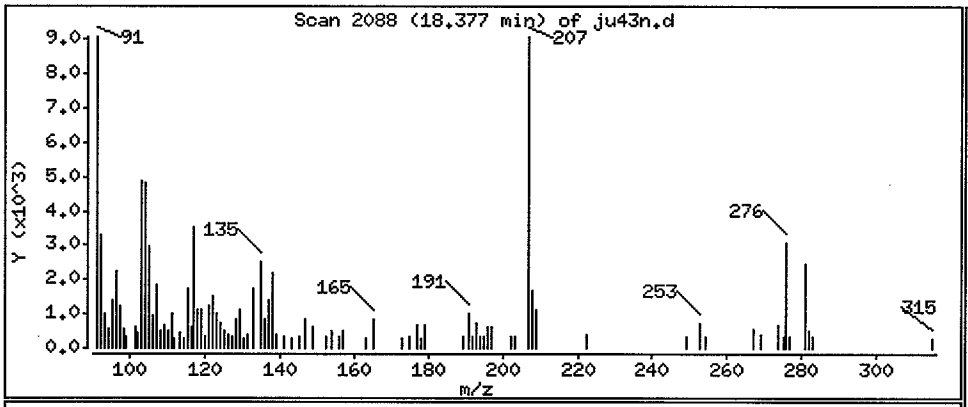
Operator: VTS

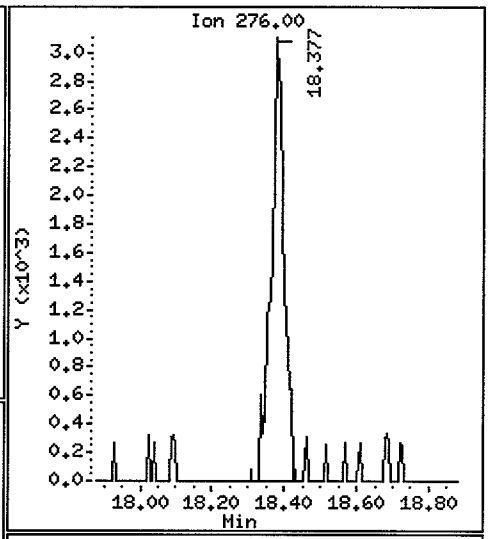
Column phase: ZB-5

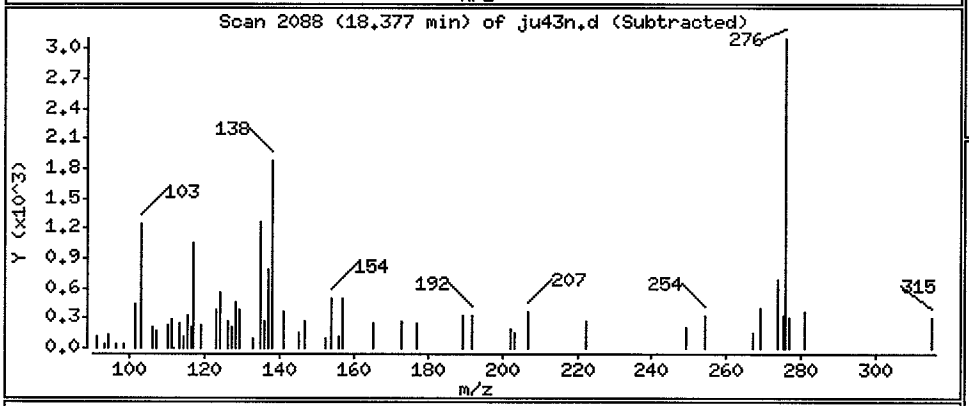
Column diameter: 0.25

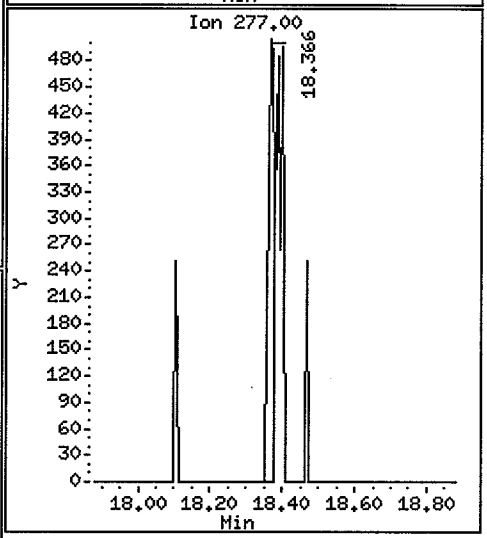
35 Benzo(g,h,i)perylene

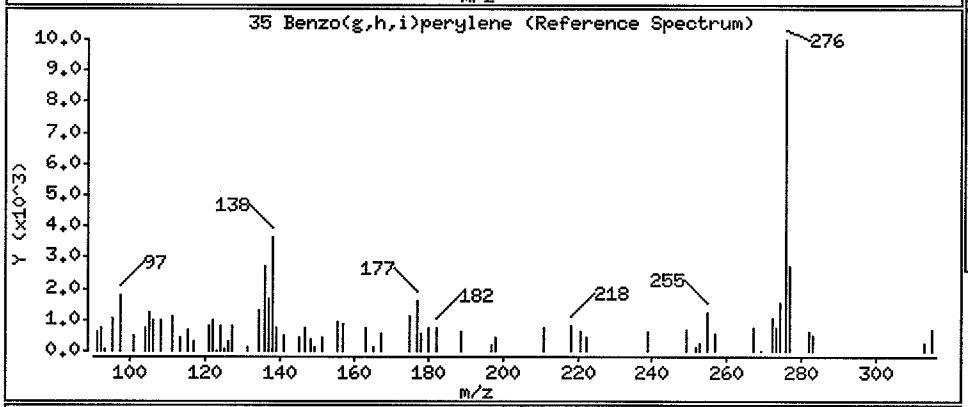
Concentration: 4.956 ug/kg

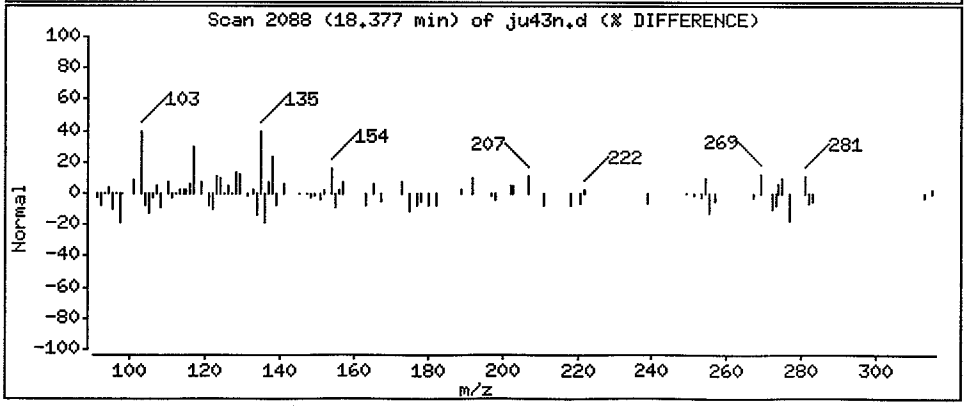












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

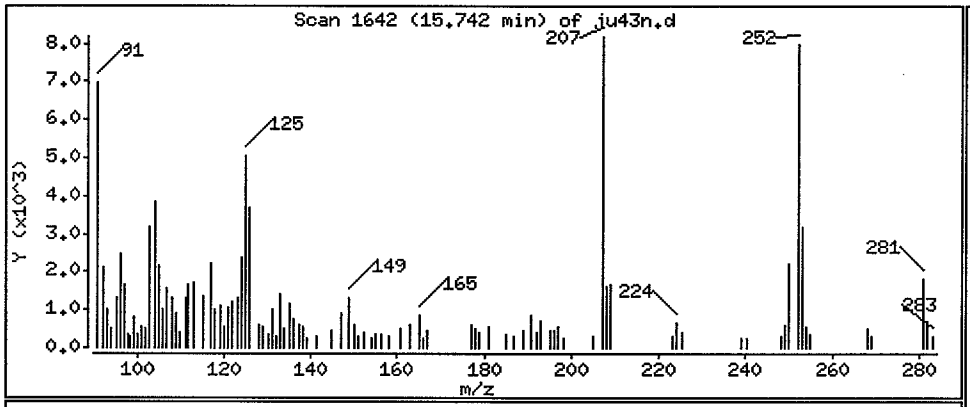
Operator: VTS

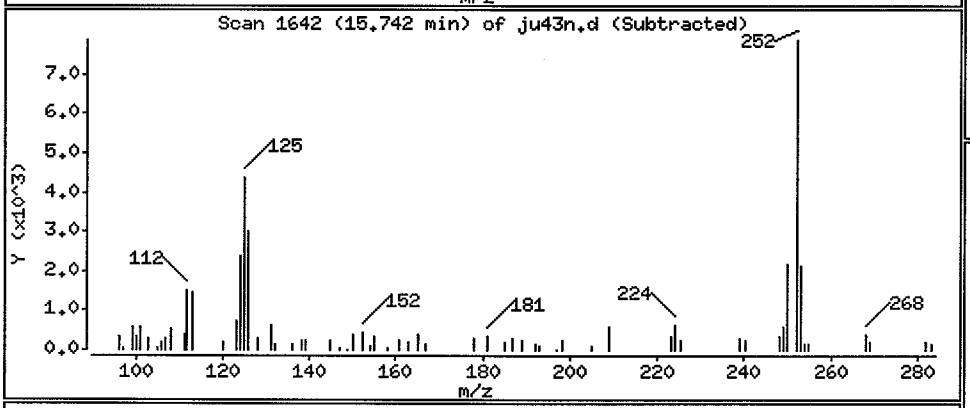
Column phase: ZB-5

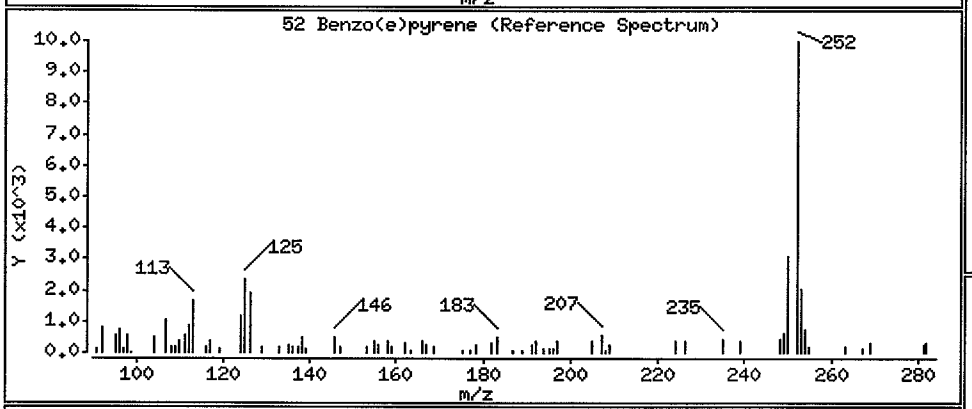
Column diameter: 0.25

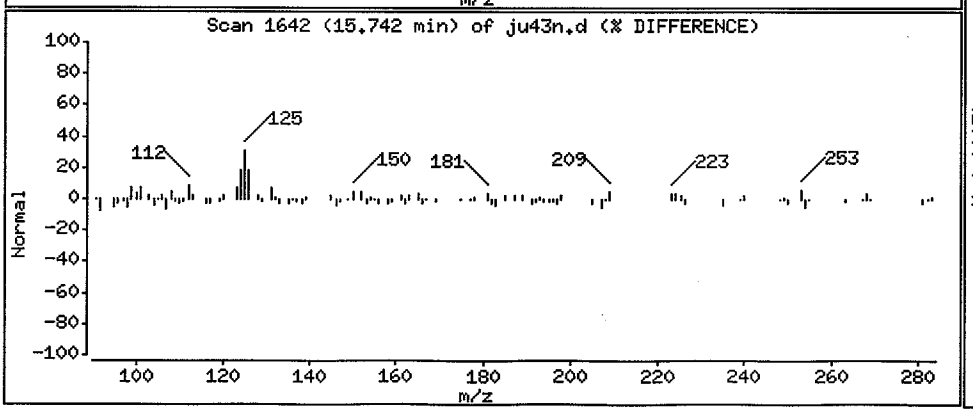
52 Benzo(e)pyrene

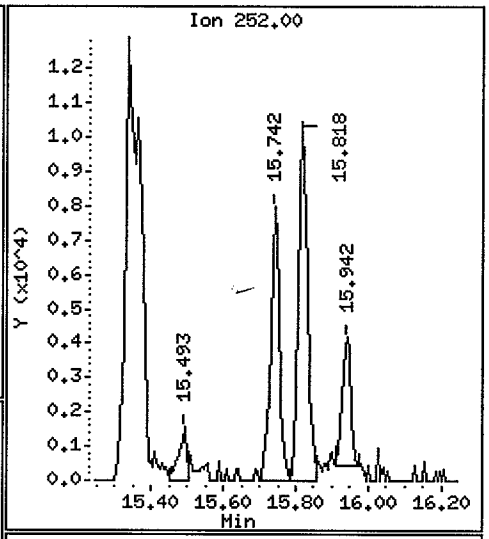
Concentration: 7.659 ug/kg

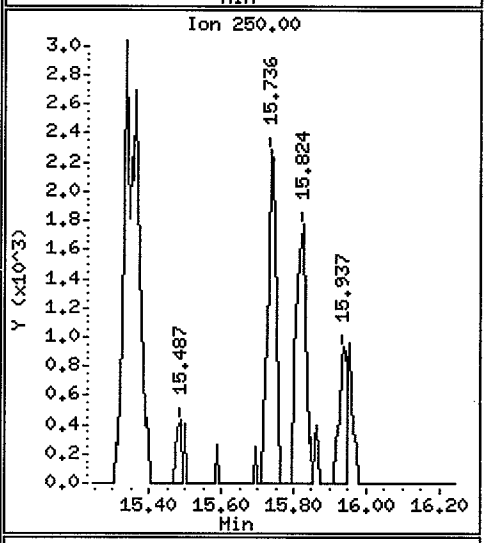


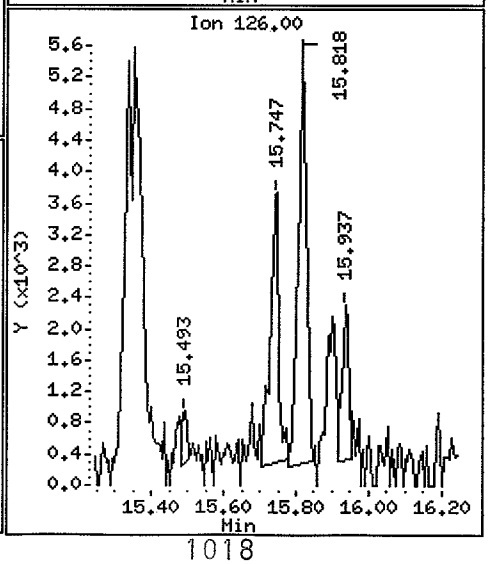












Data File: /chem3/nt1.i/20060912.b/ju43n.d

Date : 12-SEP-2006 20:27

Client ID: T4-S3-04-E

Instrument: nt1.i

Sample Info: JU43N

Volume Injected (uL): 1.0

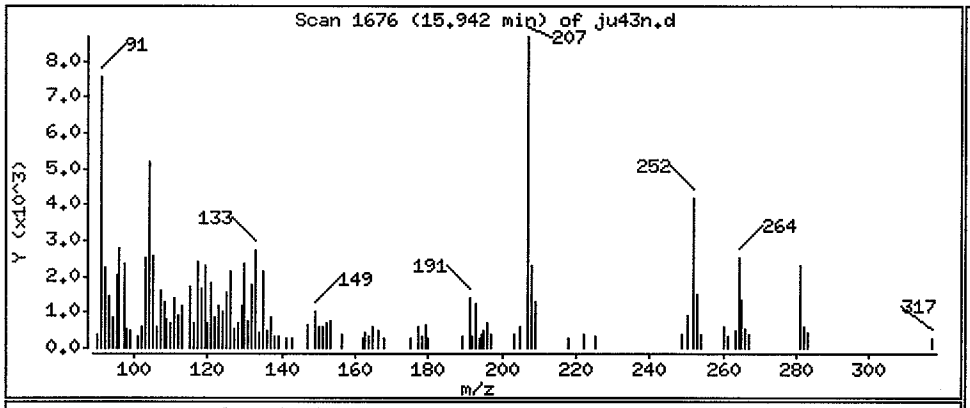
Operator: VTS

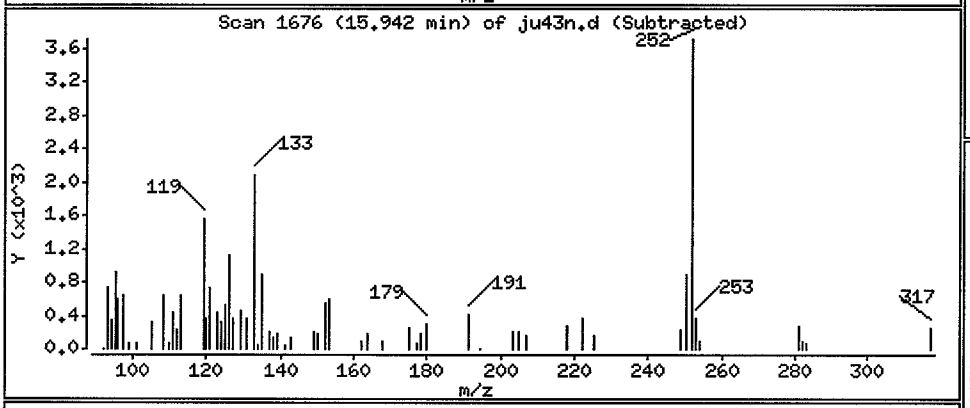
Column phase: ZB-5

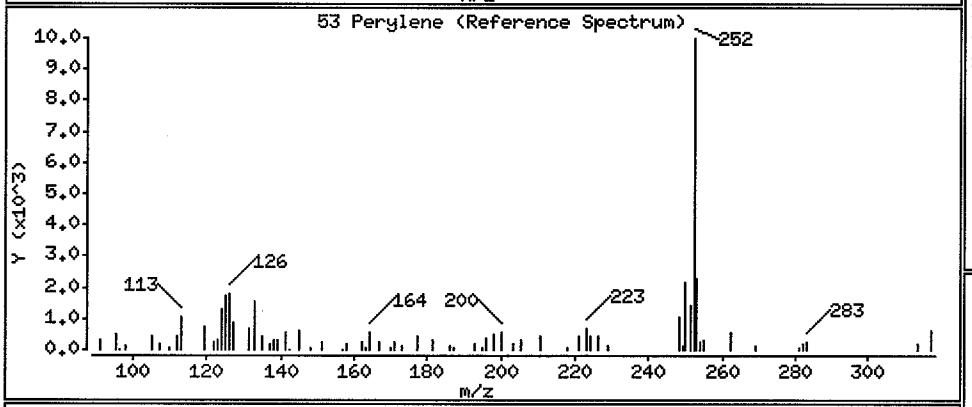
Column diameter: 0.25

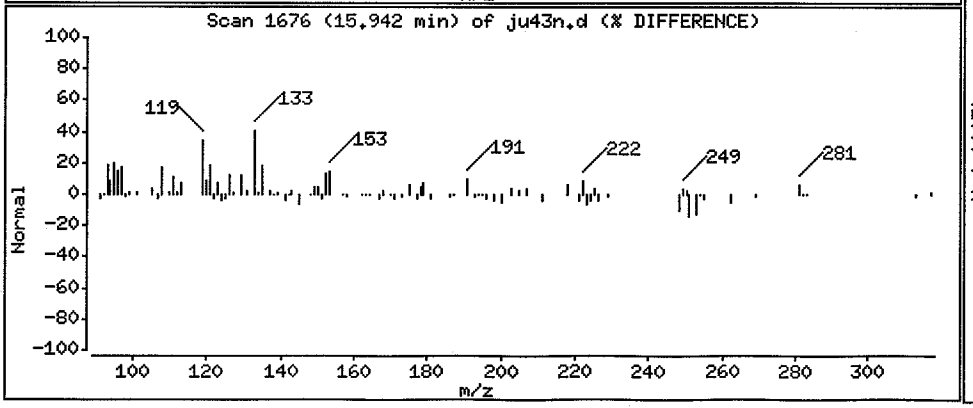
53 Perylene

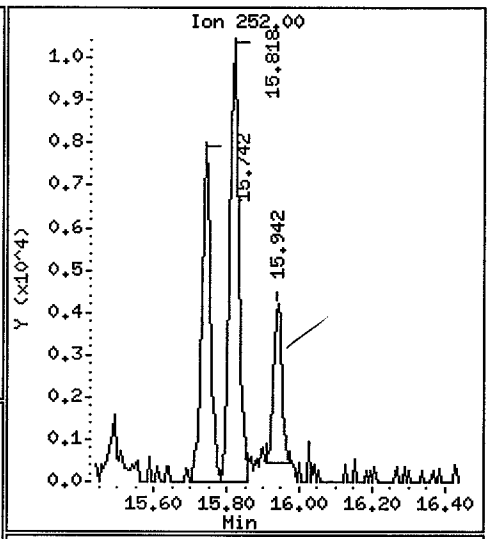
Concentration: 3.784 ug/kg

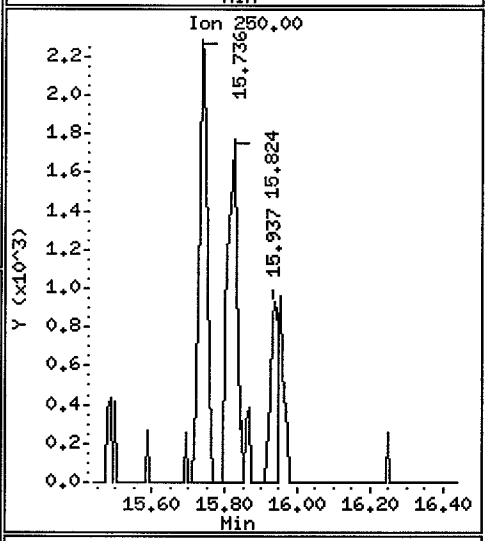


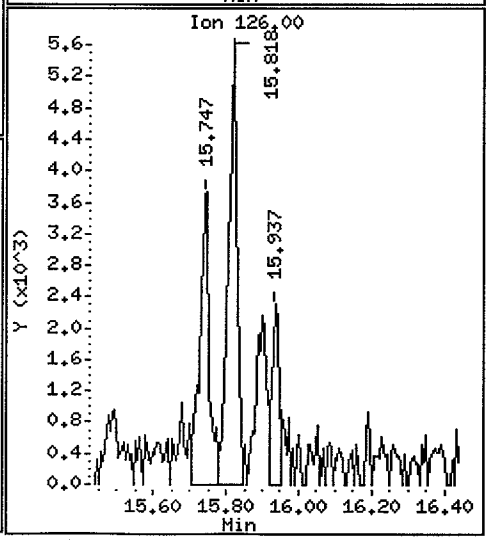












ANALYTICAL RESOURCES INCORPORATED

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

Lab Sample ID: JU430
LIMS ID: 06-15859
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 20:52
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.6%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.9	< 4.9 U
91-57-6	2-Methylnaphthalene	4.9	< 4.9 U
90-12-0	1-Methylnaphthalene	4.9	< 4.9 U
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	Acenaphthene	4.9	< 4.9 U
86-73-7	Fluorene	4.9	< 4.9 U
85-01-8	**Phenanthrene**	**4.9**	**5.9**
120-12-7	Anthracene	4.9	< 4.9 U
206-44-0	**Fluoranthene**	**4.9**	**14**
129-00-0	**Pyrene**	**4.9**	**12**
56-55-3	**Benzo(a)anthracene**	**4.9**	**8.3**
218-01-9	**Chrysene**	**4.9**	**11**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**11**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**8.8**
50-32-8	**Benzo(a)pyrene**	**4.9**	**11**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**4.4 J**
53-70-3	Dibenz(a,h)anthracene	4.9	< 4.9 U
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**5.4**
198-55-0	Perylene	4.9	< 4.9 U
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	< 4.9 U
832-69-9	1-Methylphenanthrene	4.9	< 4.9 U
192-97-2	**Benzo(e)pyrene**	**4.9**	**6.9**
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	85.0%
d14-Dibenzo(a,h)anthracen	80.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43o.d
Lab Smp Id: JU43O Client Smp ID: T4-S3-04-F
Inj Date : 12-SEP-2006 20:52
Operator : VTS Inst ID: nt1.i
Smp Info : JU43O
Misc Info : 06-15859
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.50000	Weight of sample extracted (g)
M	24.60000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.808	6.808	(1.000)	326919	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.111)	206358	2.54559	125.0
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	161849	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	10.679	10.679	(1.000)	198449	2.00000	
	16 Phenanthrene	178	10.708	10.709	(1.003)	13173	✓0.12246	6.015
	17 Anthracene	178	Compound Not Detected.					
	19 Fluoranthene	202	12.198	12.198	(1.142)	26982	✓0.29385	14.43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.487	12.488	(0.893)	26686	0.24598	12.08	
	22 Benzo(a)anthracene	228	13.965	13.965	(0.998)	15694	0.16982	8.342	
*	23 Chrysene-d12	240	13.988	13.989	(1.000)	154145	2.00000		
	24 Chrysene	228	14.018	14.018	(1.002)	19960	0.22984	11.29	
	28 Benzo(b)fluoranthene	252	15.336	15.336	(0.964)	20182	0.23385	11.49	
	29 Benzo(k)fluoranthene	252	15.360	15.366	(0.966)	16213	0.17988	8.836	
	30 Benzo(a)pyrene	252	15.815	15.821	(0.994)	18007	0.23133	11.36	
*	31 Perylene-d12	264	15.903	15.898	(1.000)	152404	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.806	17.813	(1.120)	7556	0.09042	4.442	J
$	32 Dibenz(a,h)anthrancene-d14	292	17.741	17.736	(1.116)	120472	2.41222	118.5	
	34 Dibenz(a,h)anthracene	278	Compound Not Detected.						
	35 Benzo(g,h,i)perylene	276	18.380	18.380	(1.156)	7892	0.10687	5.250(M)	
	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	15.744	15.744	(0.990)	12525	0.14443	7.095	
	53 Perylene	252	15.933	15.939	(1.002)	7617	0.09413	4.624	J

QC Flag Legend

M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43o.d
Lab Smp Id: JU43O
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15859

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-04-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	326919	-4.28
8 Acenaphthene-d10	169375	84688	338750	161849	-4.44
15 Phenanthrene-d10	232185	116092	464370	198449	-14.53
23 Chrysene-d12	179856	89928	359712	154145	-14.30
31 Perylene-d12	175373	87686	350746	152404	-13.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.00
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	0.00
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.00
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
31 Perylene-d12	15.90	15.40	16.40	15.90	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

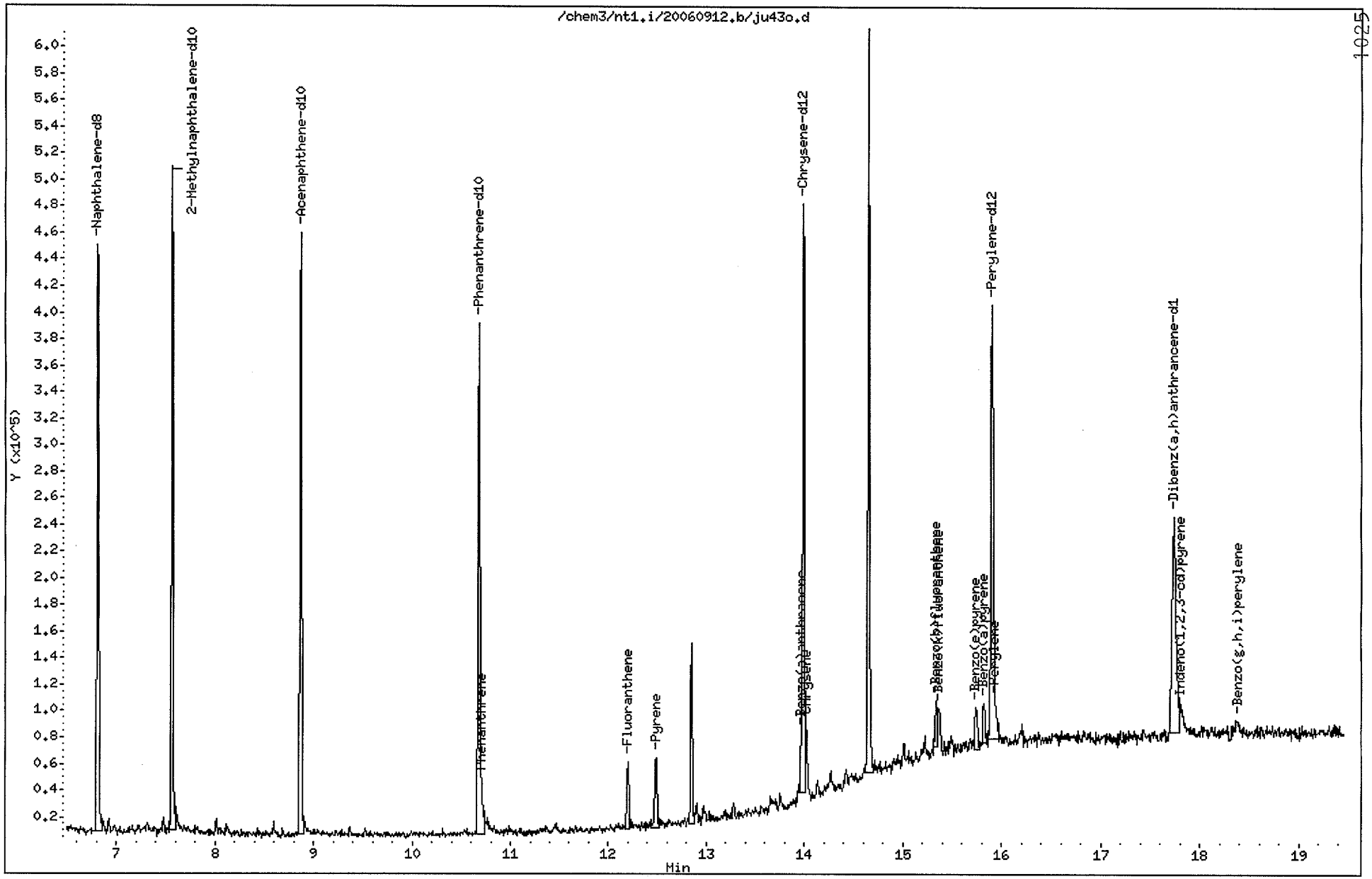
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43O
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15859

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-04-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.4	125.0	84.85	32-97
$ 32 Dibenz(a,h)anthran	147.4	118.5	80.41	21-105

Data File: /chem3/nt1.i/20060912.b/ju43o.d
Date : 12-SEP-2006 20:52
Client ID: T4-S3-04-F
Sample Info: JU43O
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU43O

Volume Injected (uL): 1.0

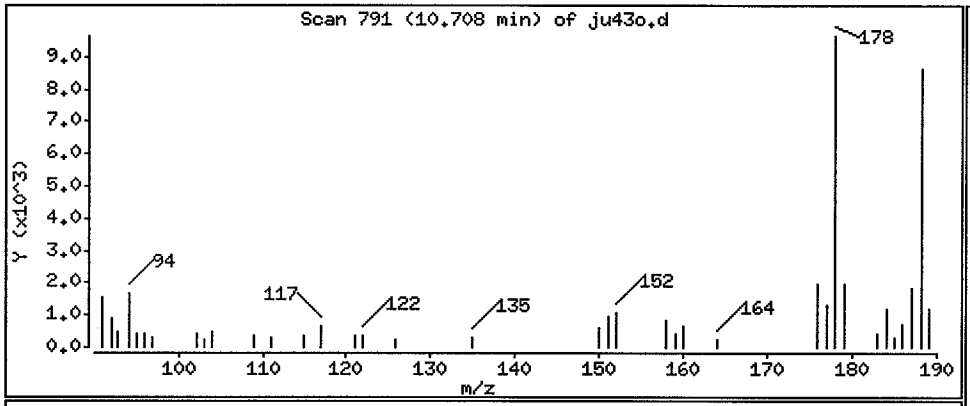
Operator: VTS

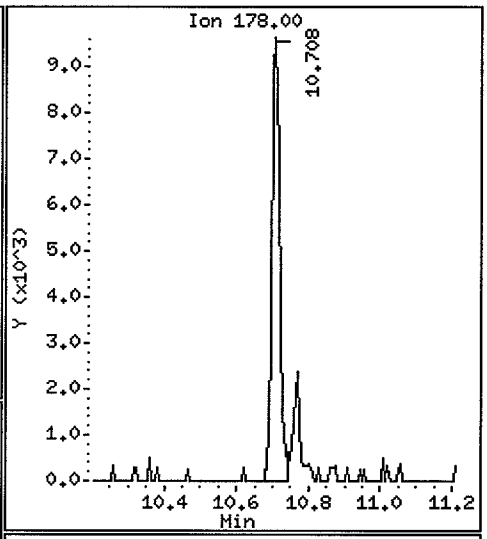
Column phase: ZB-5

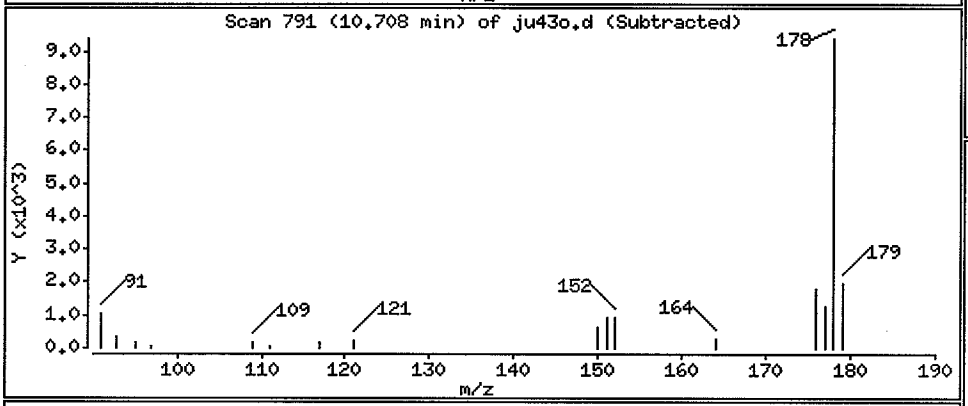
Column diameter: 0.25

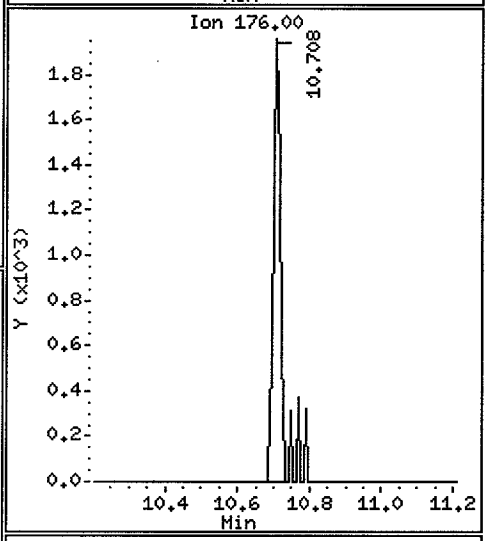
16 Phenanthrene

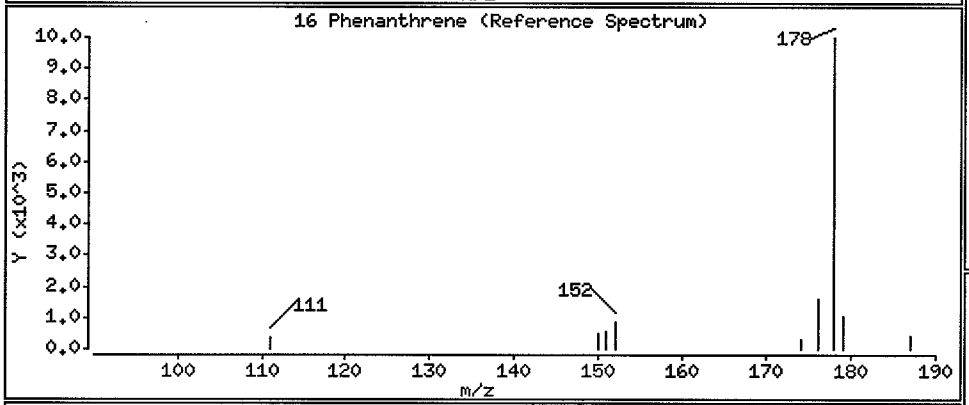
Concentration: 6.015 ug/kg

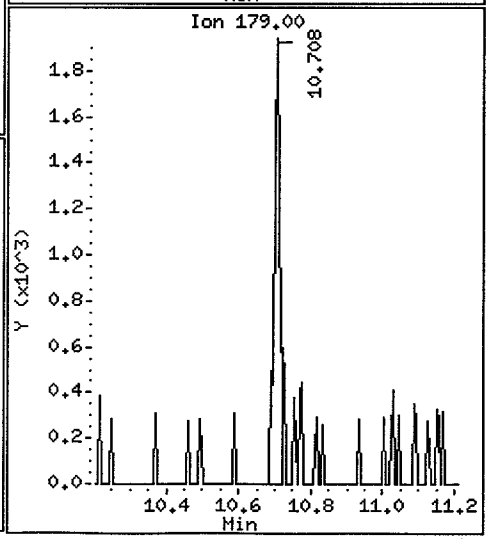


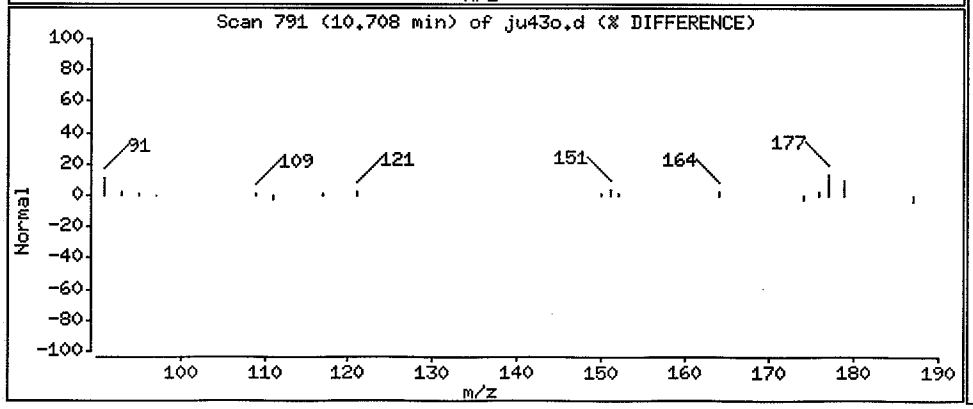












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU430

Volume Injected (uL): 1.0

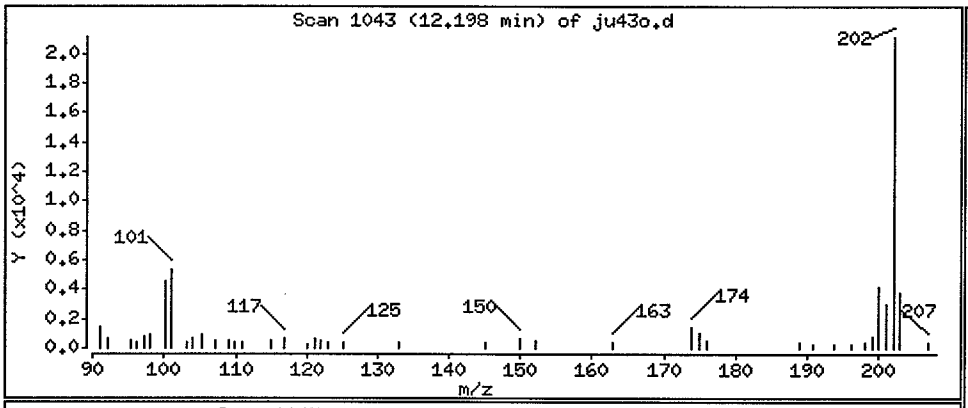
Operator: VTS

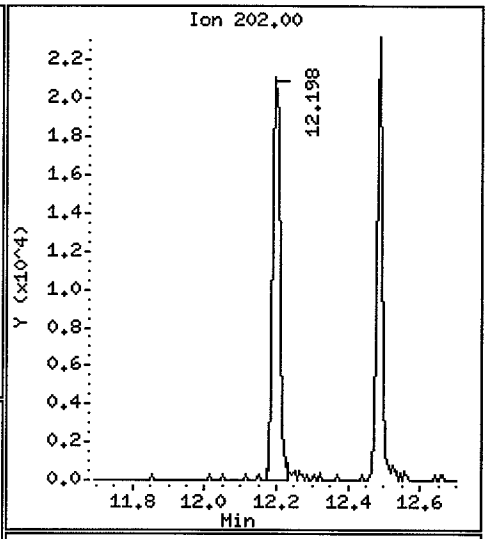
Column phase: ZB-5

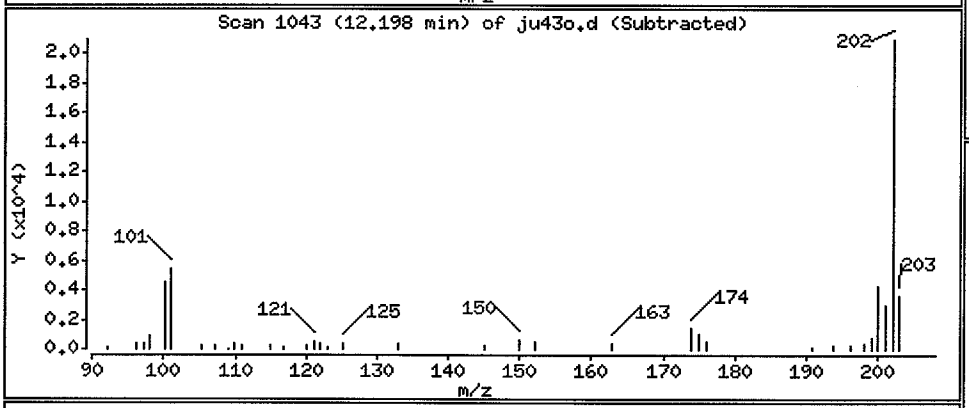
Column diameter: 0.25

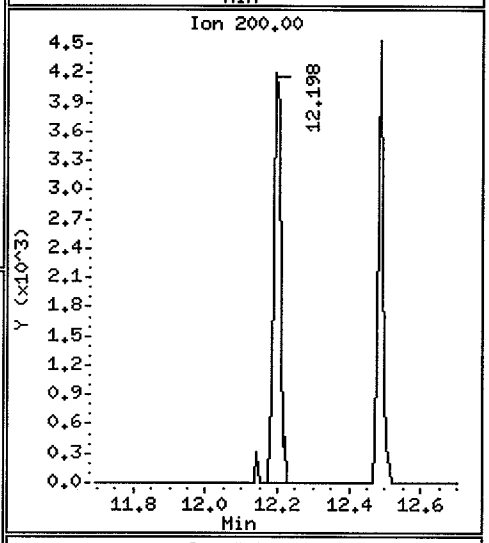
19 Fluoranthene

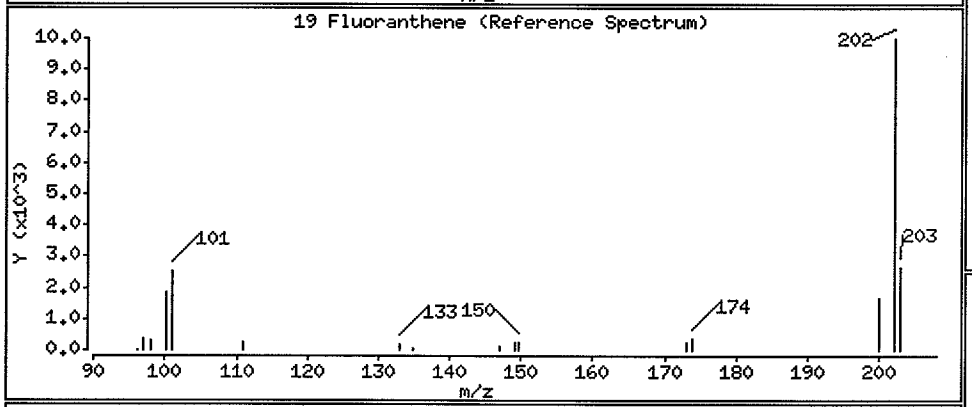
Concentration: 14.43 ug/kg

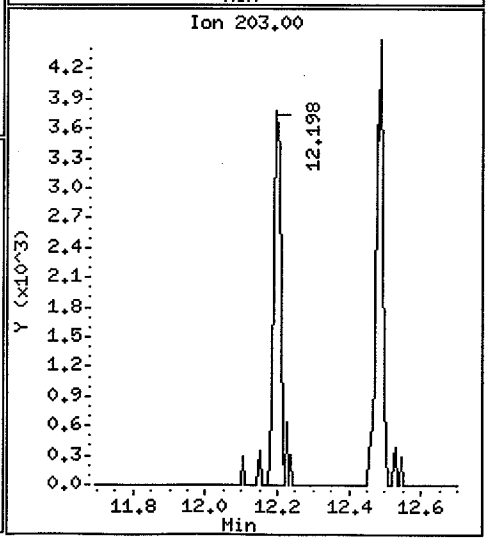


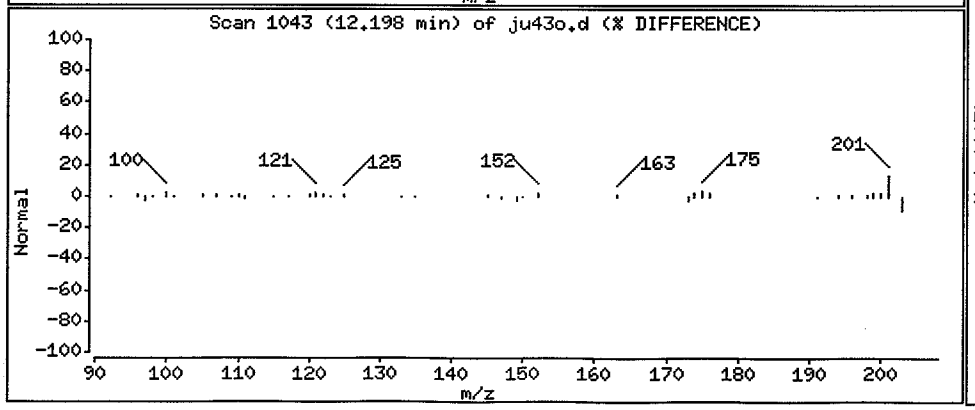












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU43O

Volume Injected (uL): 1.0

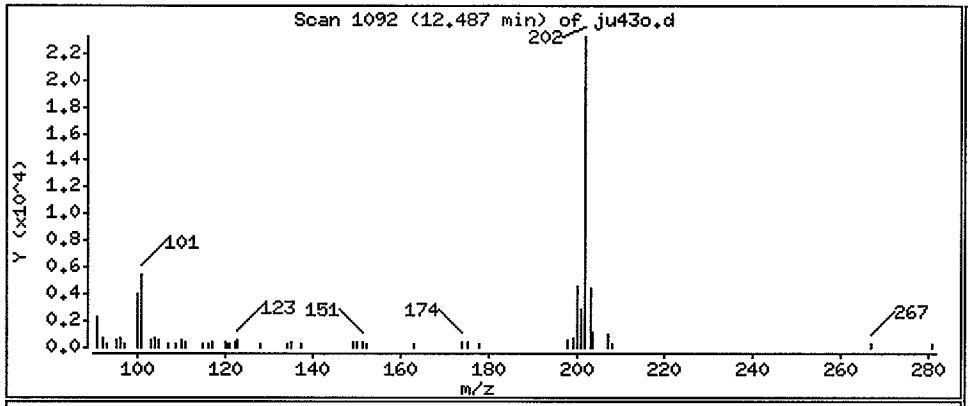
Operator: VTS

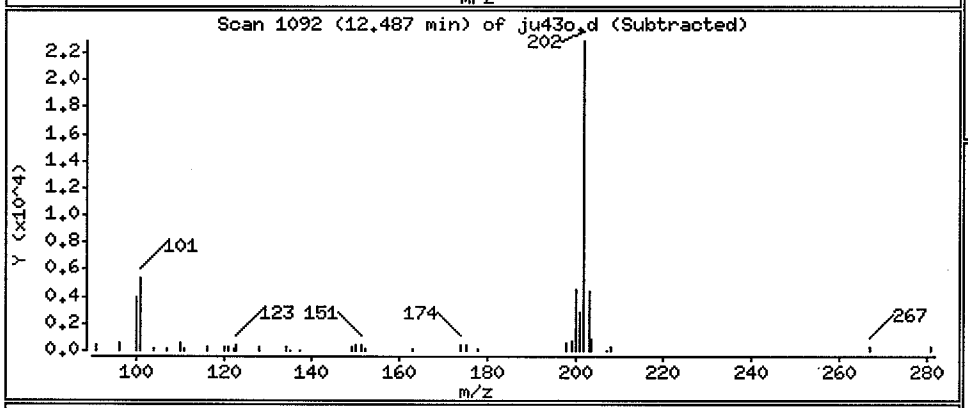
Column phase: ZB-5

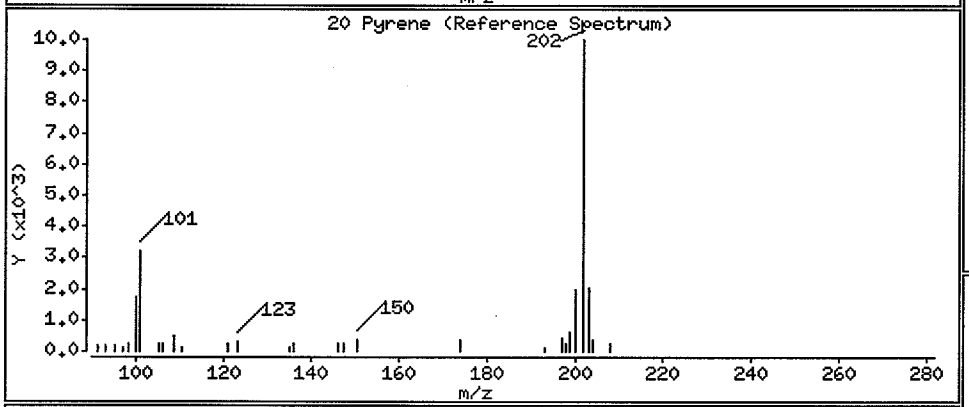
Column diameter: 0.25

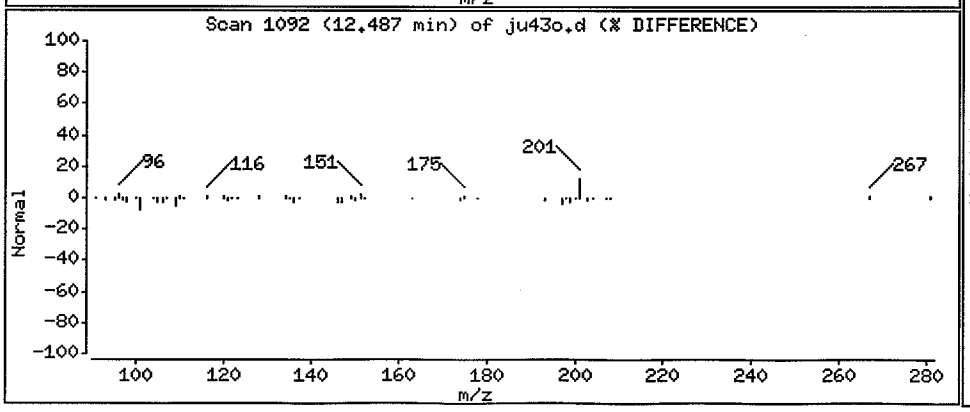
20 Pyrene

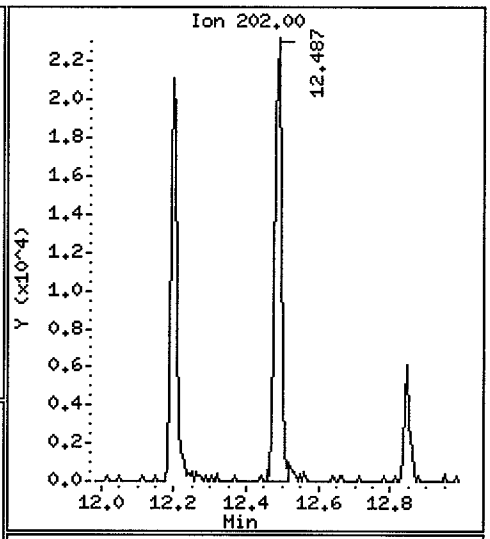
Concentration: 12.08 ug/kg

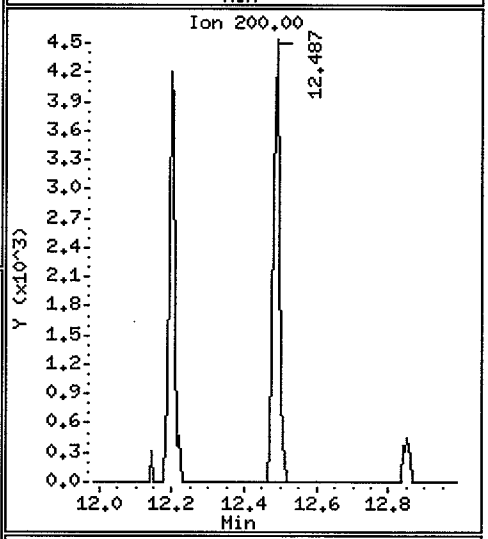


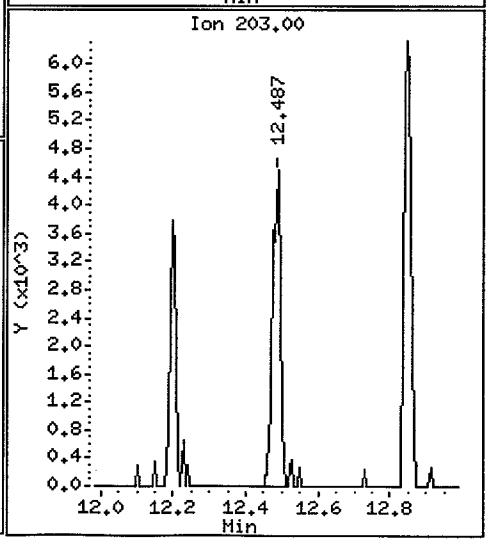












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU43O

Volume Injected (uL): 1.0

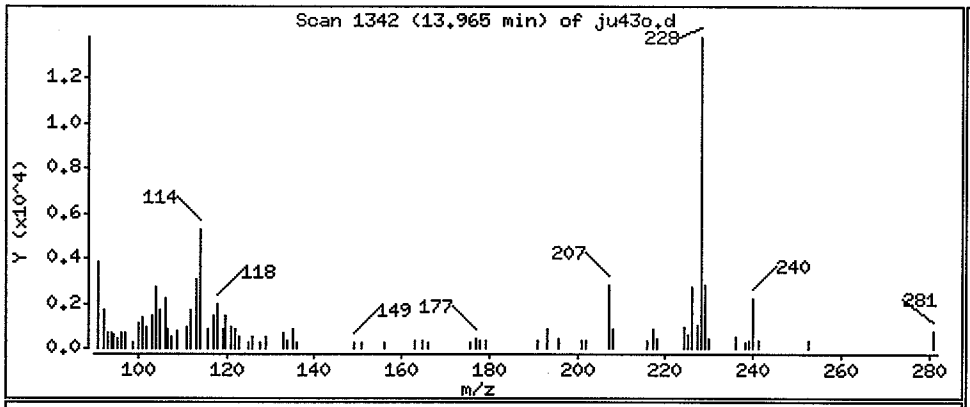
Operator: VTS

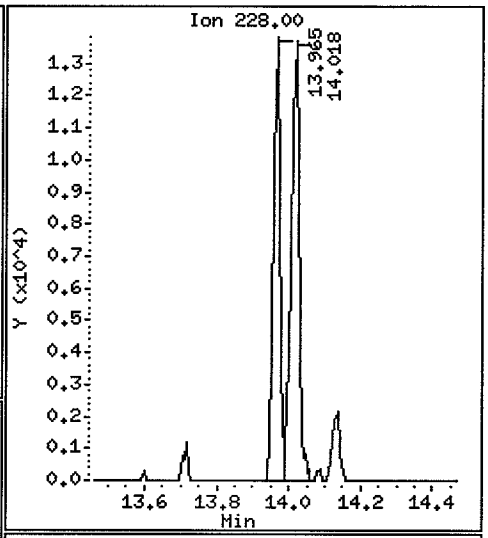
Column phase: ZB-5

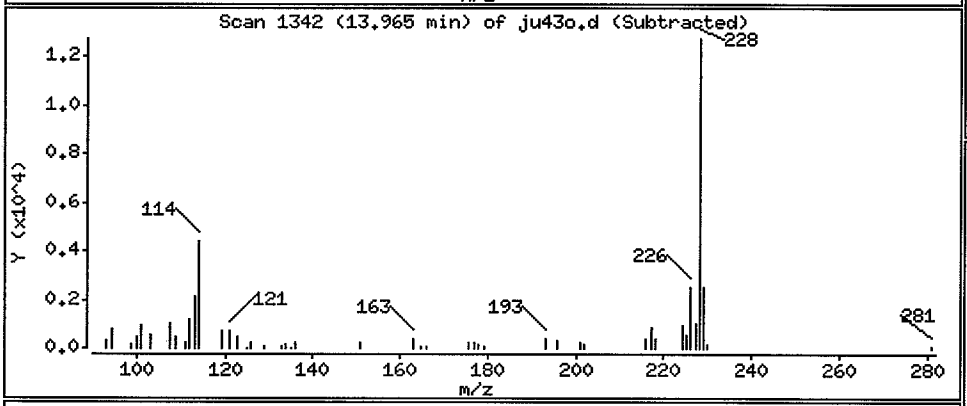
Column diameter: 0.25

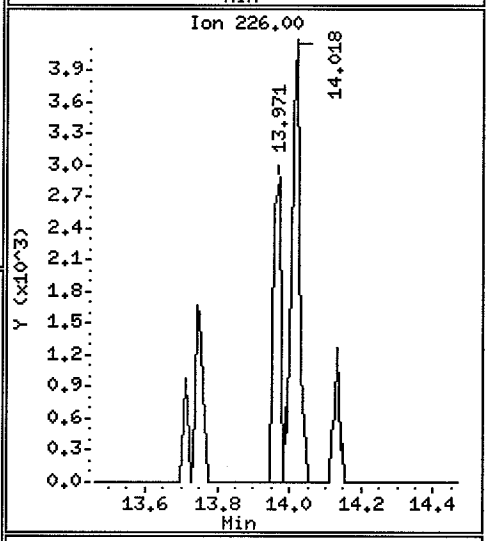
22 Benzo(a)anthracene

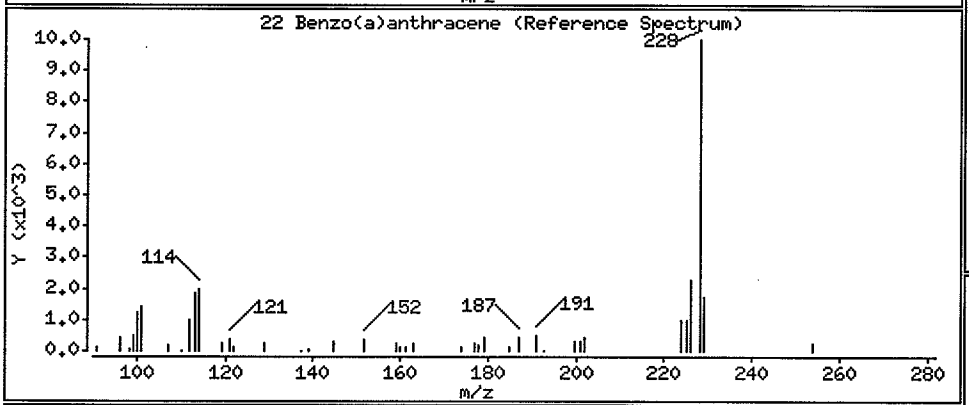
Concentration: 8.342 ug/kg

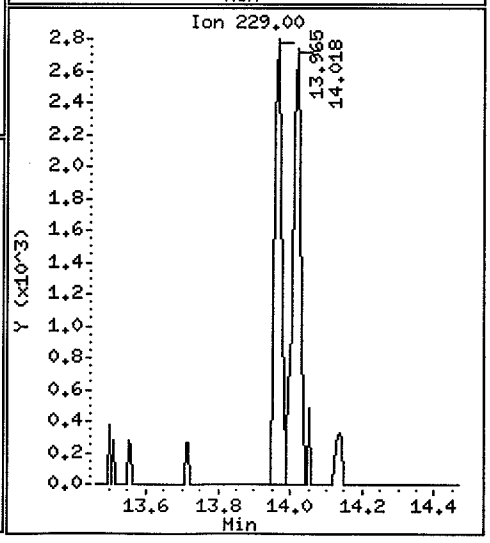


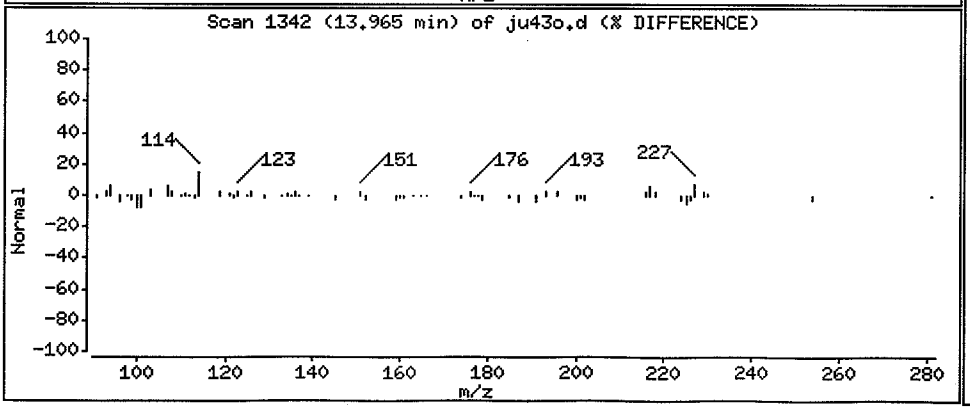












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU430

Volume Injected (uL): 1.0

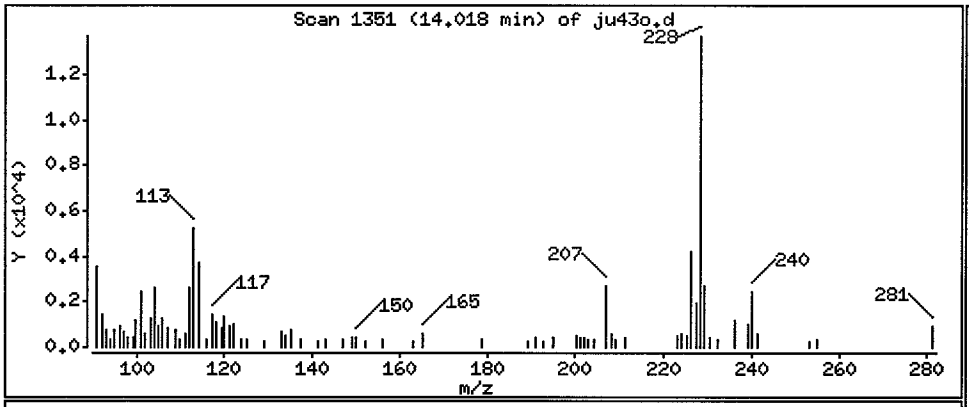
Operator: VTS

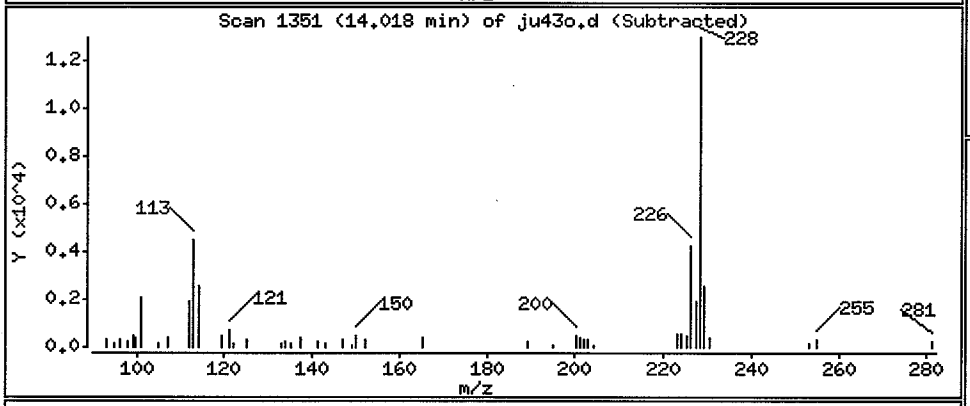
Column phase: ZB-5

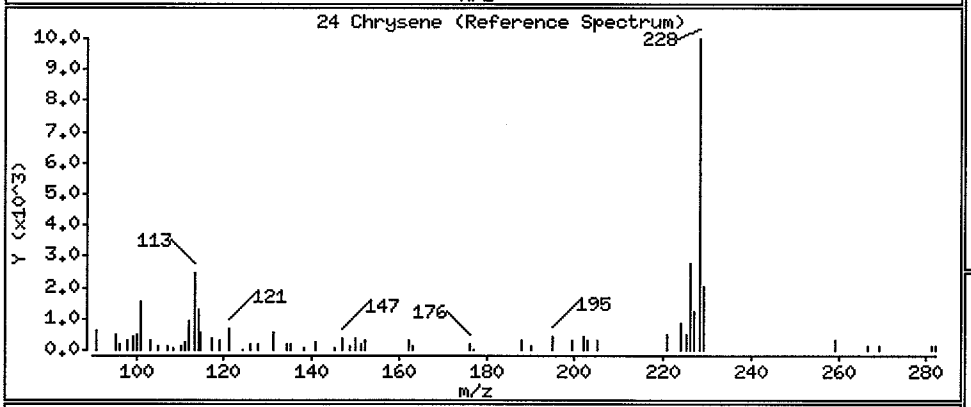
Column diameter: 0.25

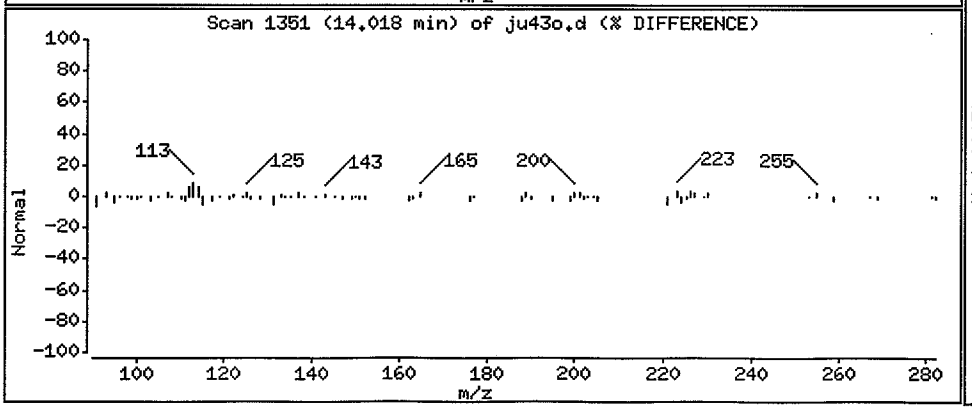
24 Chrysene

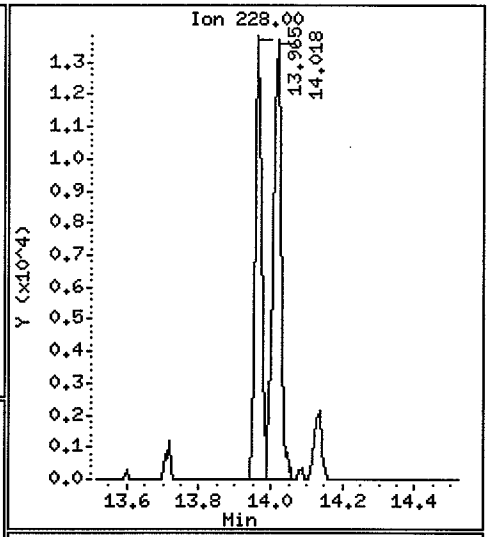
Concentration: 11.29 ug/kg

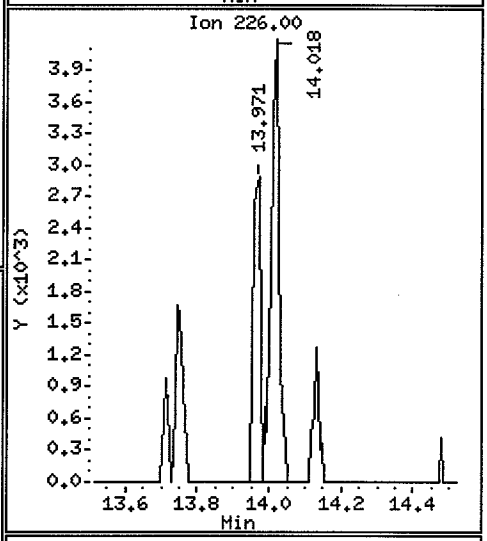


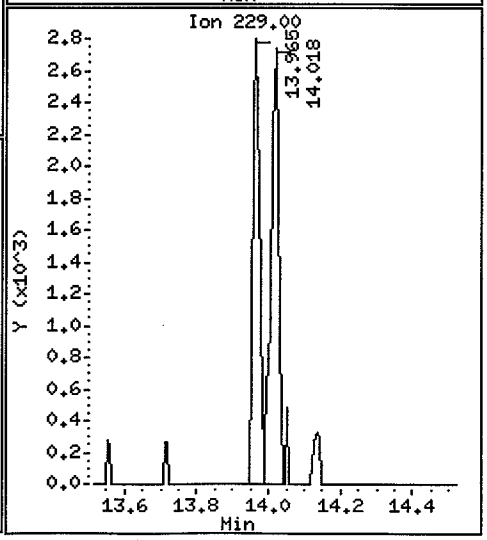












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU430

Volume Injected (uL): 1.0

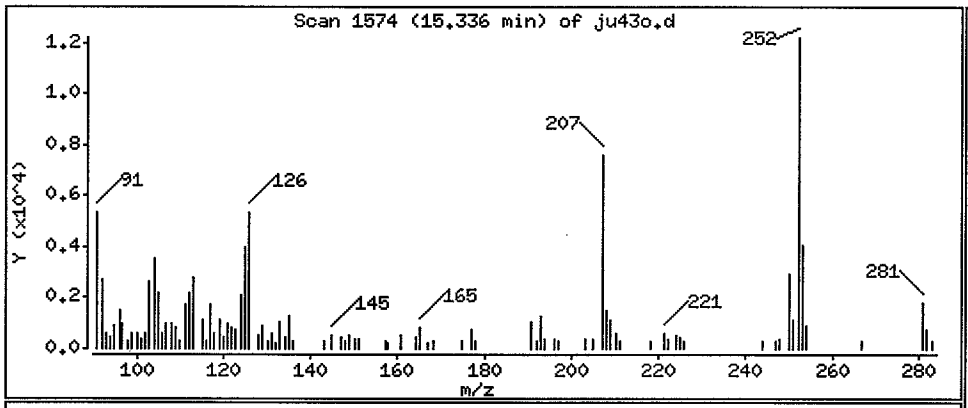
Operator: VTS

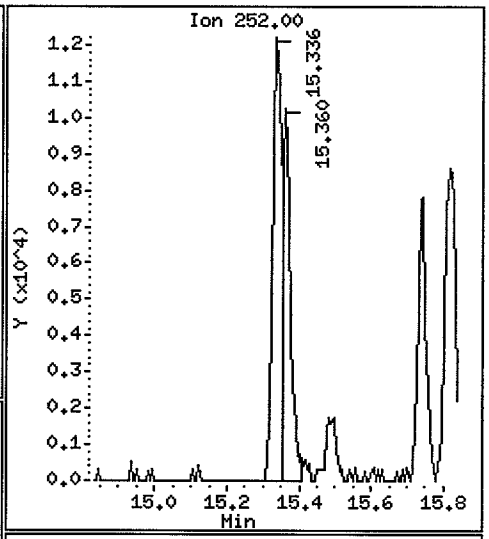
Column phase: ZB-5

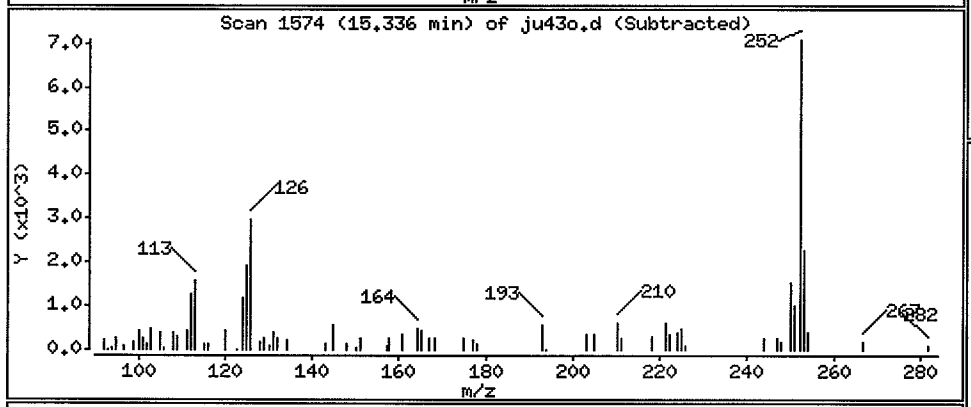
Column diameter: 0.25

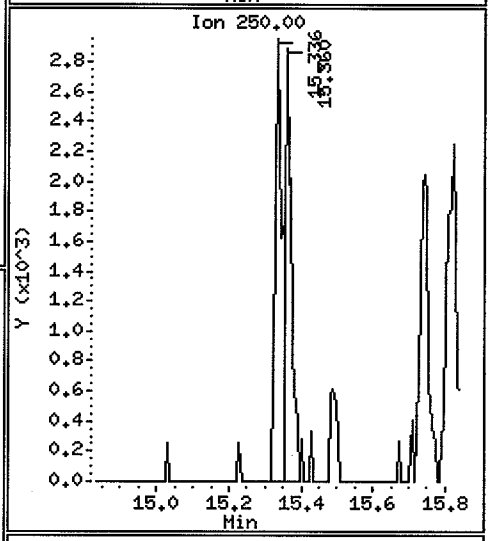
28 Benzo(b)fluoranthene

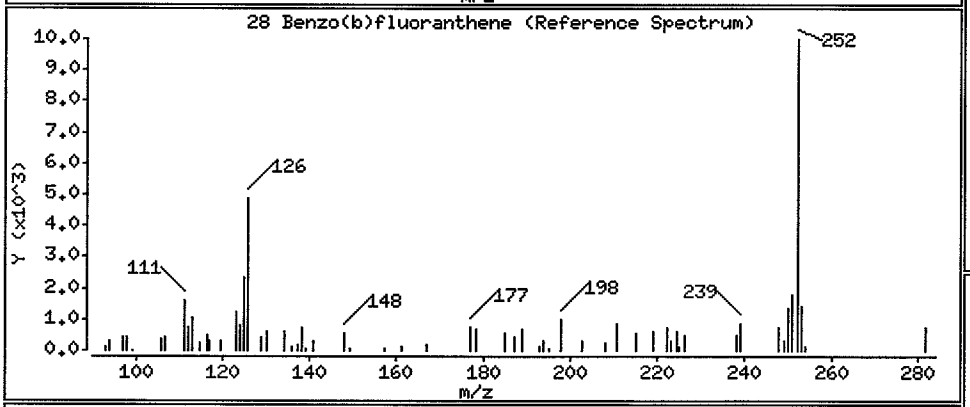
Concentration: 11.49 ug/kg

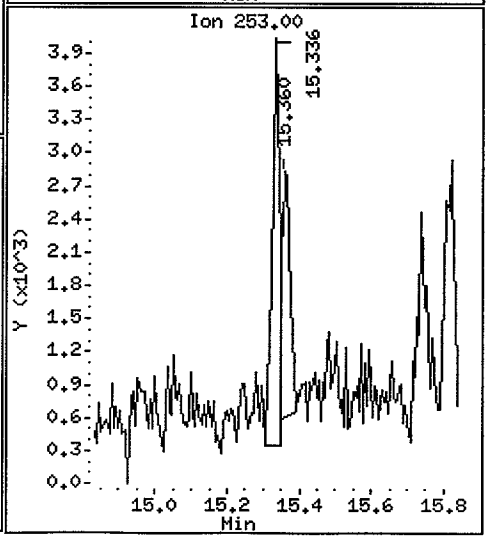


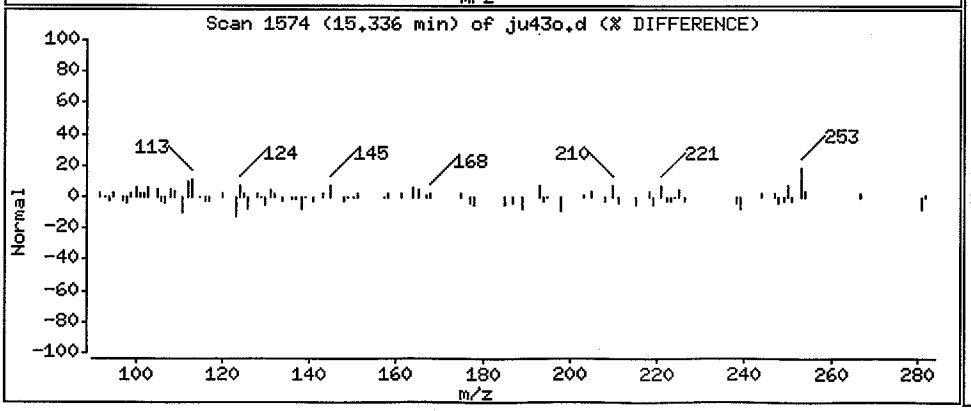












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU43O

Volume Injected (uL): 1.0

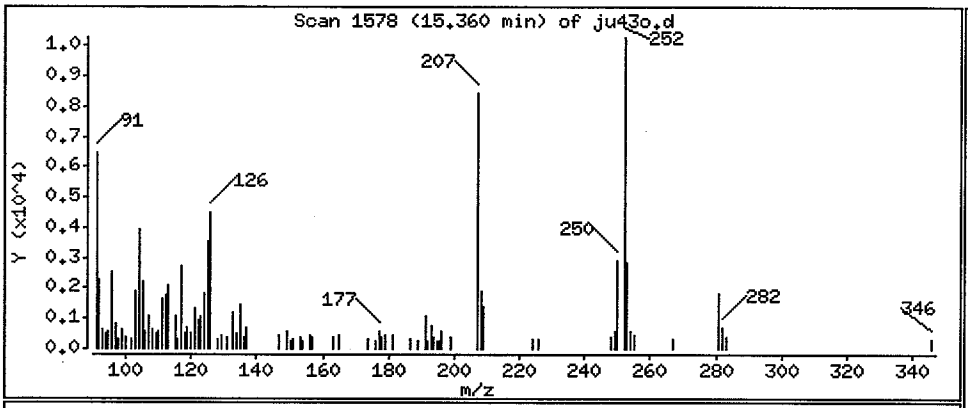
Operator: VTS

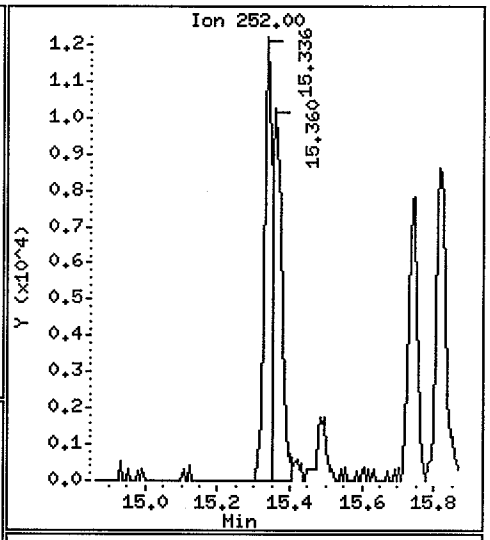
Column phase: ZB-5

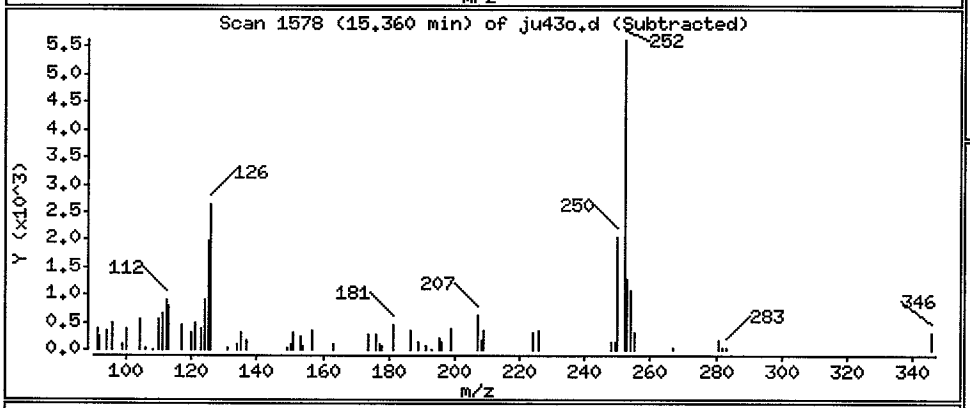
Column diameter: 0.25

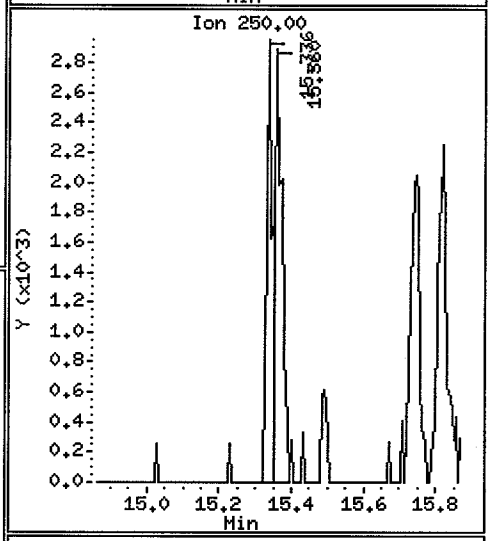
29 Benzo(k)fluoranthene

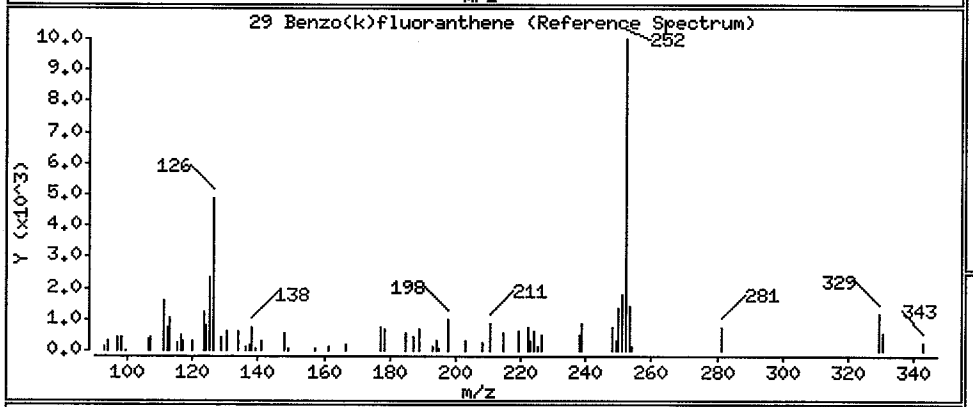
Concentration: 8.836 ug/kg

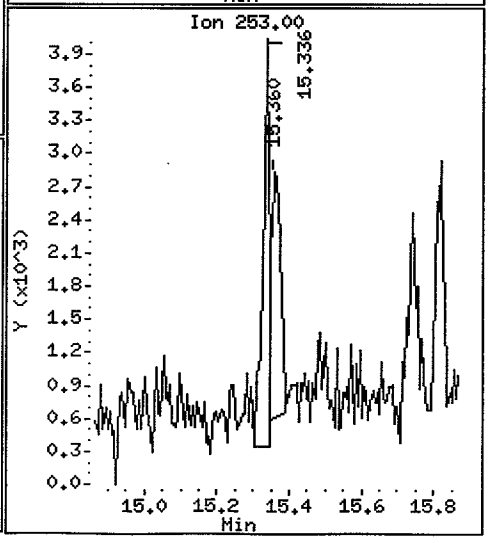


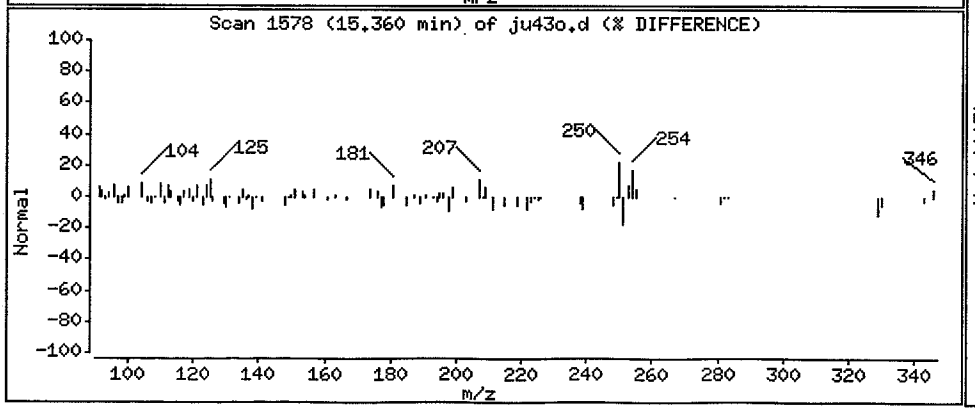












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU43O

Volume Injected (uL): 1.0

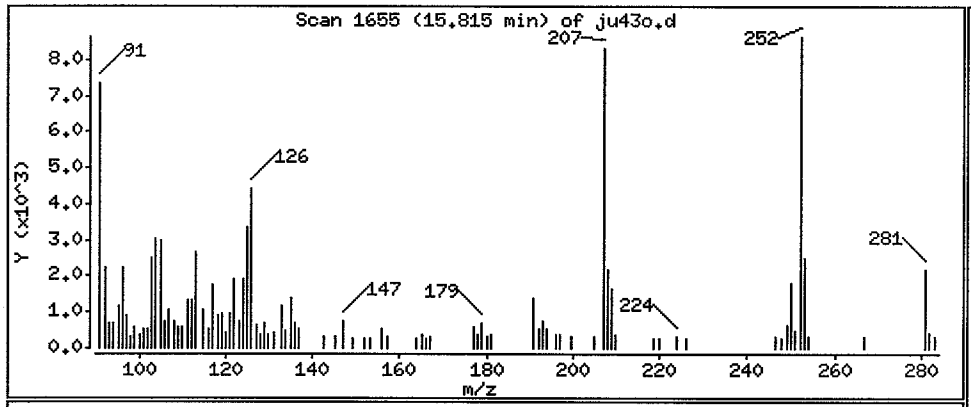
Operator: VTS

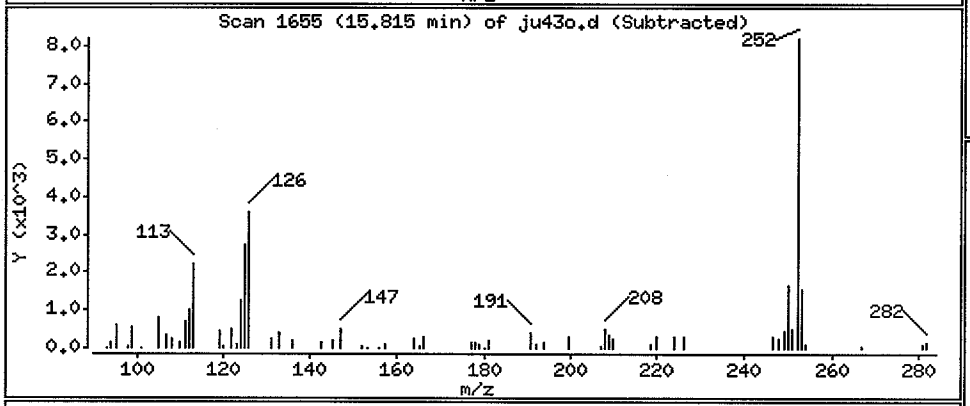
Column phase: ZB-5

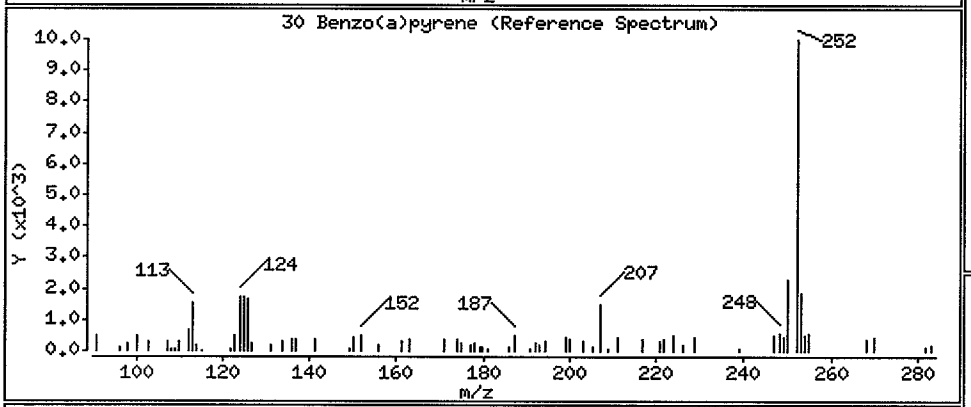
Column diameter: 0.25

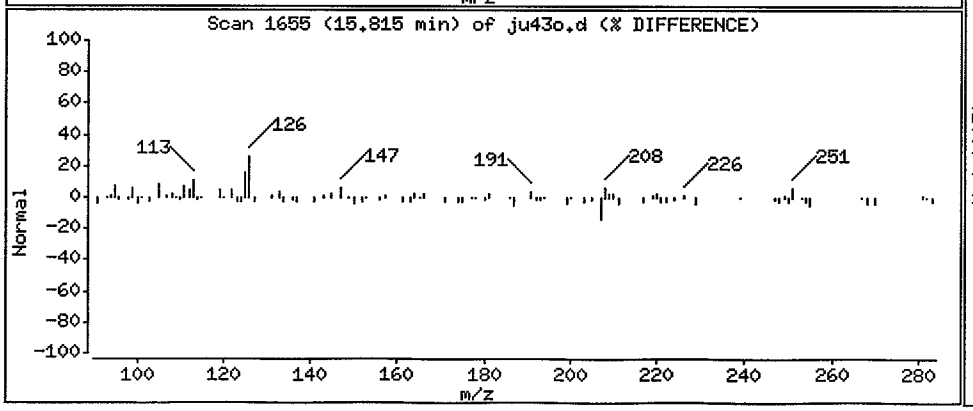
30 Benzo(a)pyrene

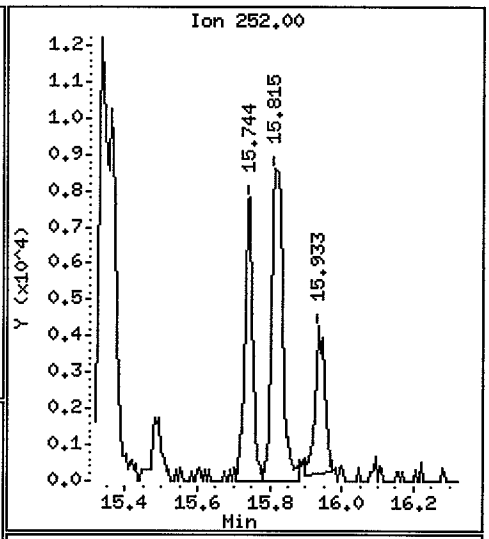
Concentration: 11.36 ug/kg

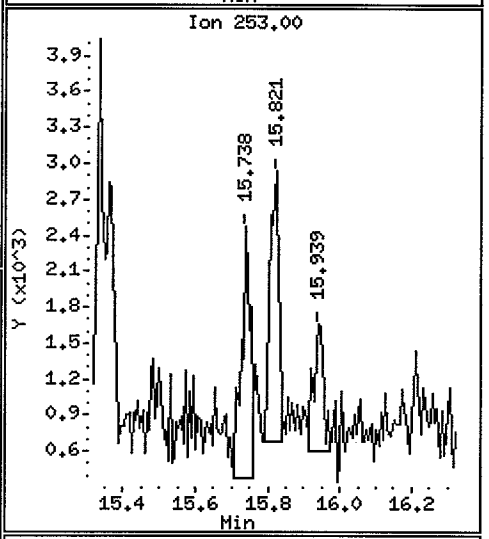


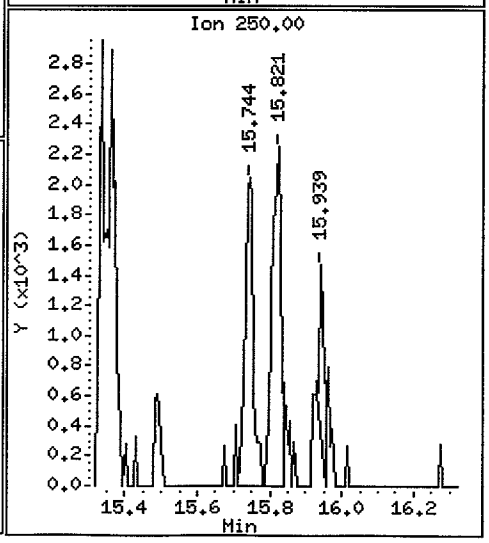












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU43O

Volume Injected (uL): 1.0

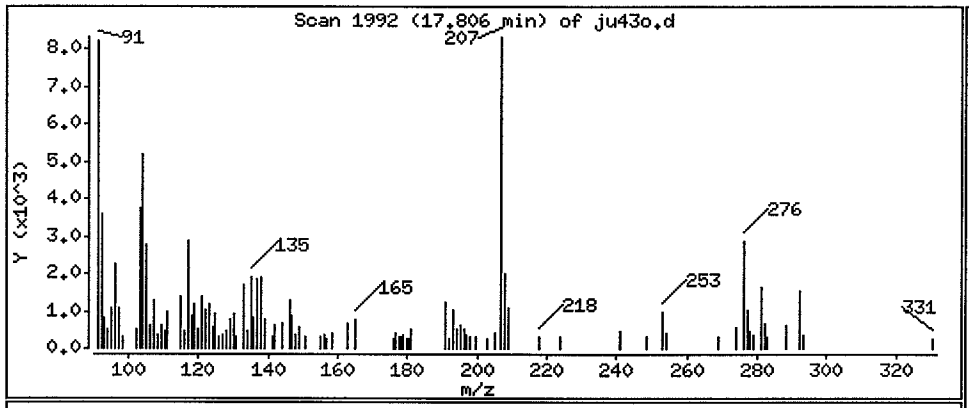
Operator: VTS

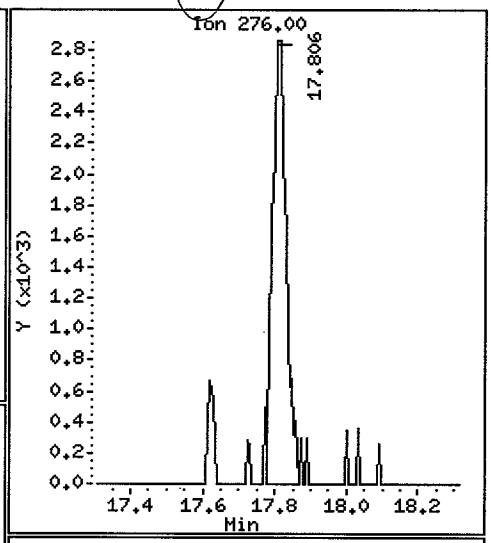
Column phase: ZB-5

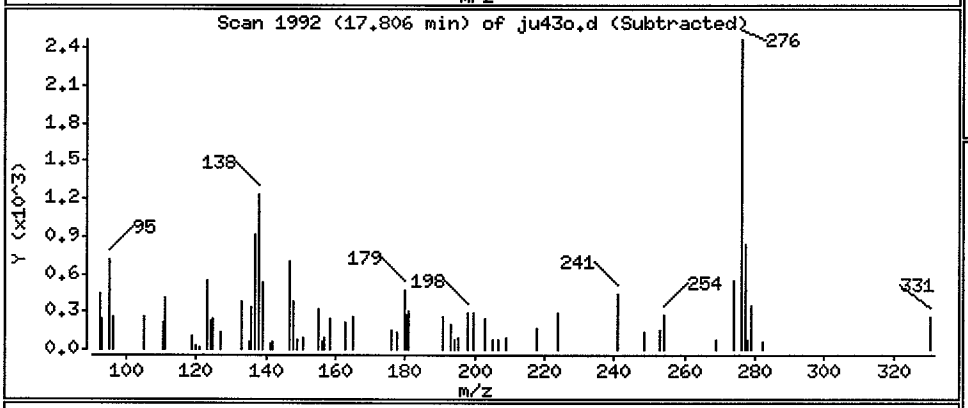
Column diameter: 0.25

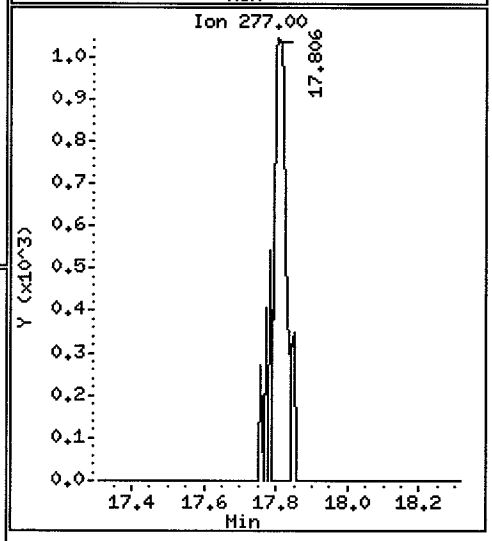
33 Indeno(1,2,3-cd)pyrene

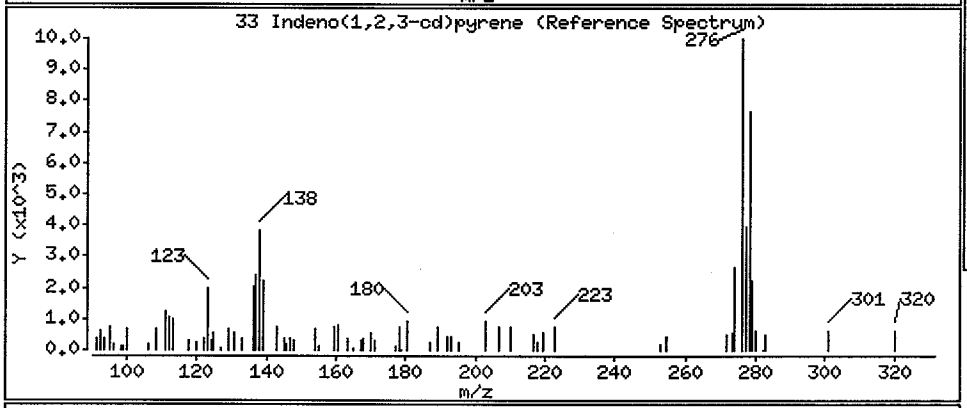
Concentration: 4.442 ug/kg

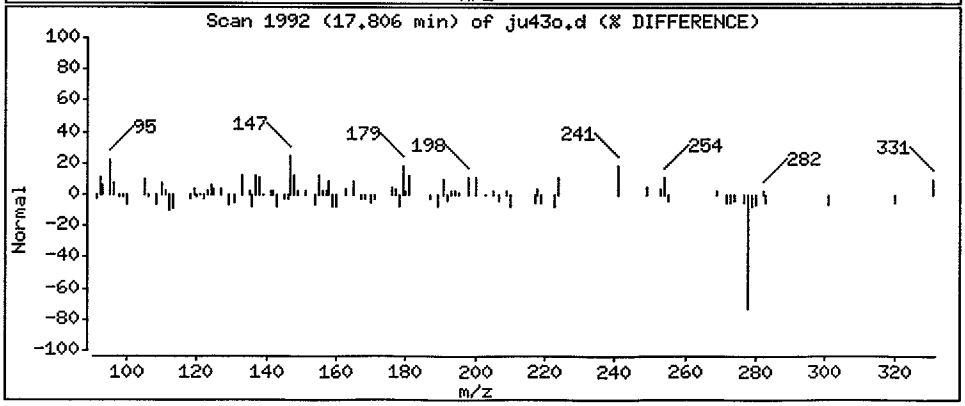












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU430

Volume Injected (uL): 1.0

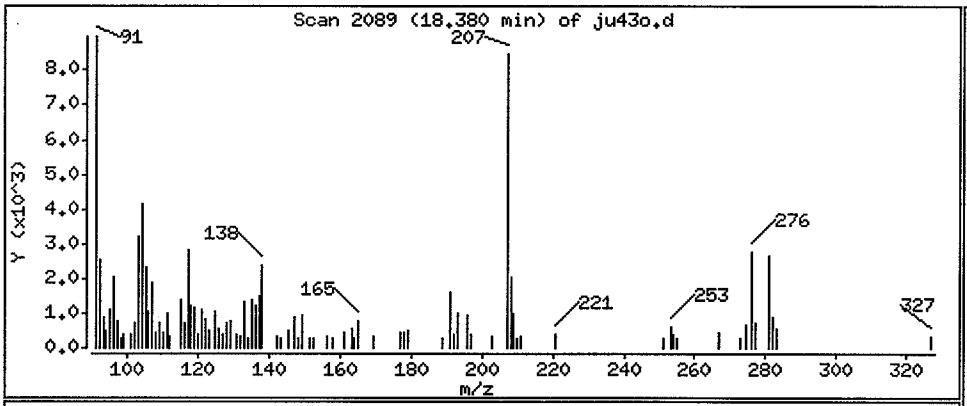
Operator: VTS

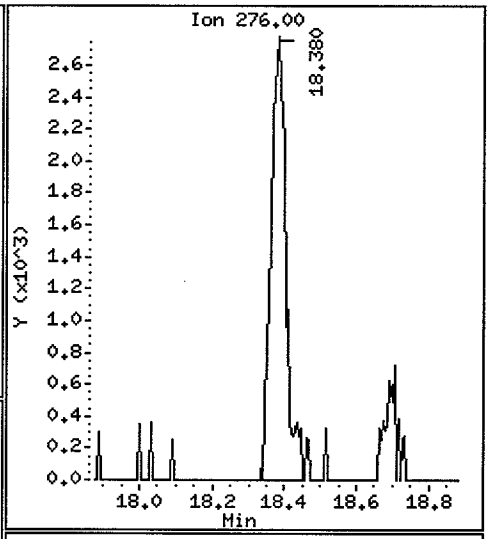
Column phase: ZB-5

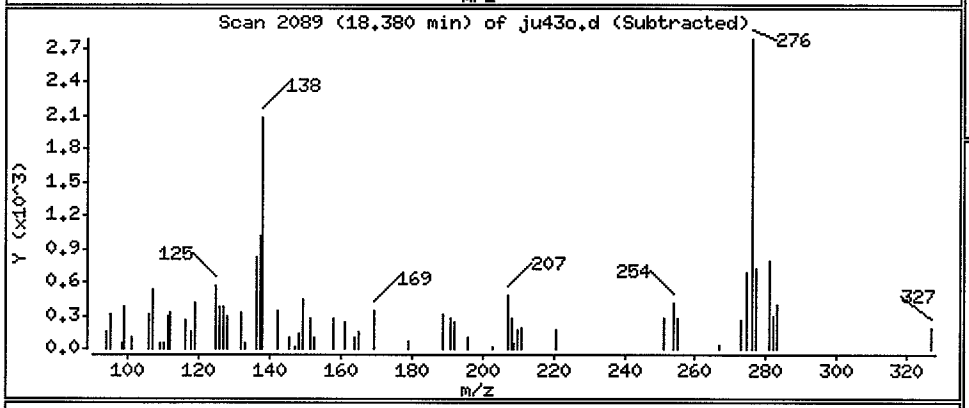
Column diameter: 0.25

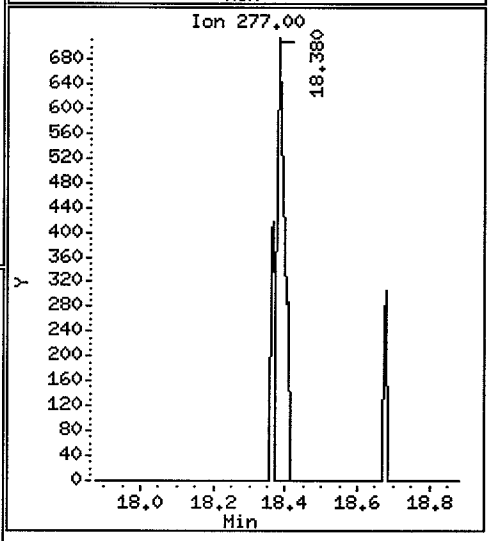
35 Benzo(g,h,i)perylene

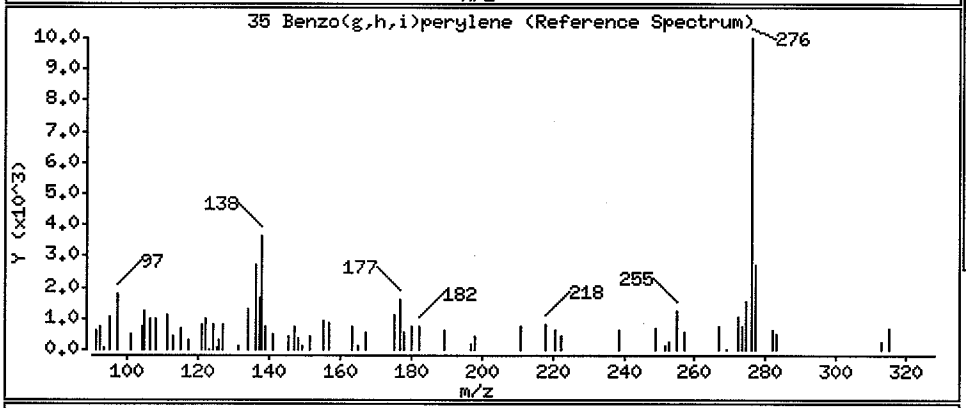
Concentration: 5.250 ug/kg

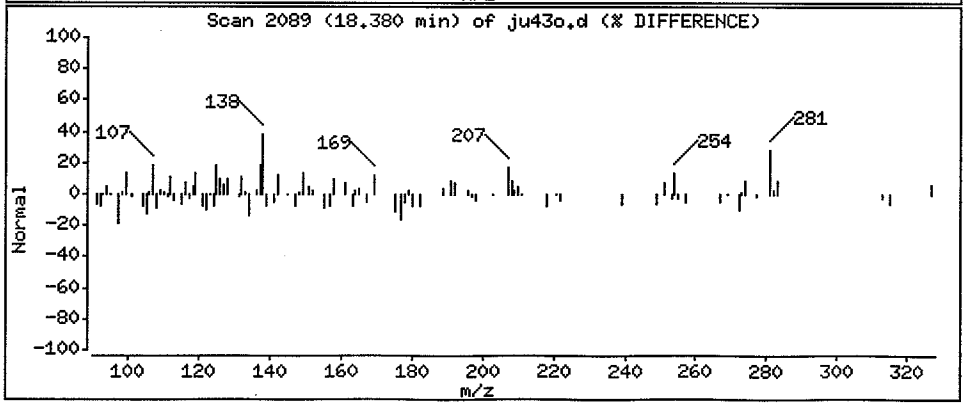












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU430

Volume Injected (uL): 1.0

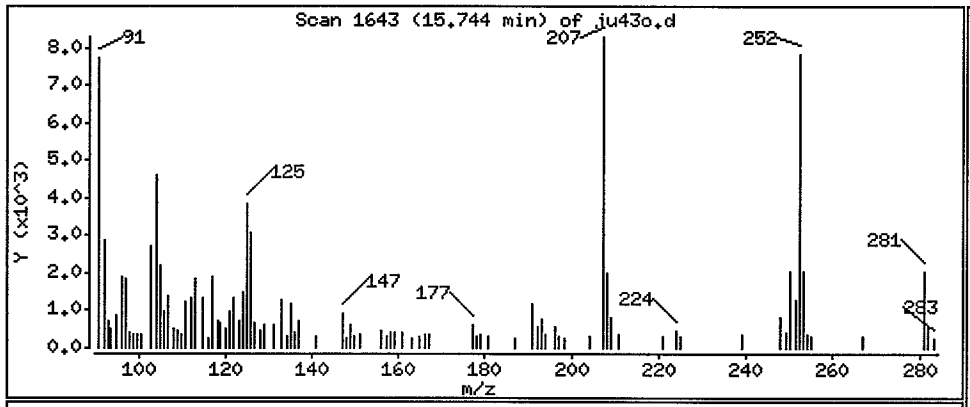
Operator: VTS

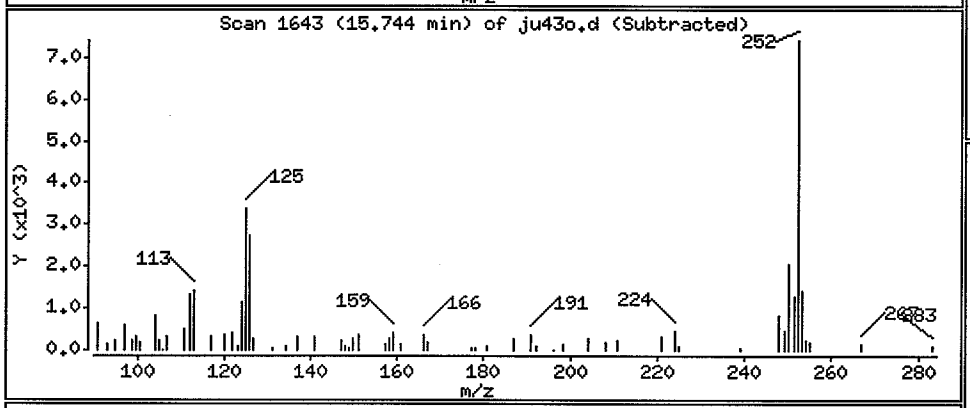
Column phase: ZB-5

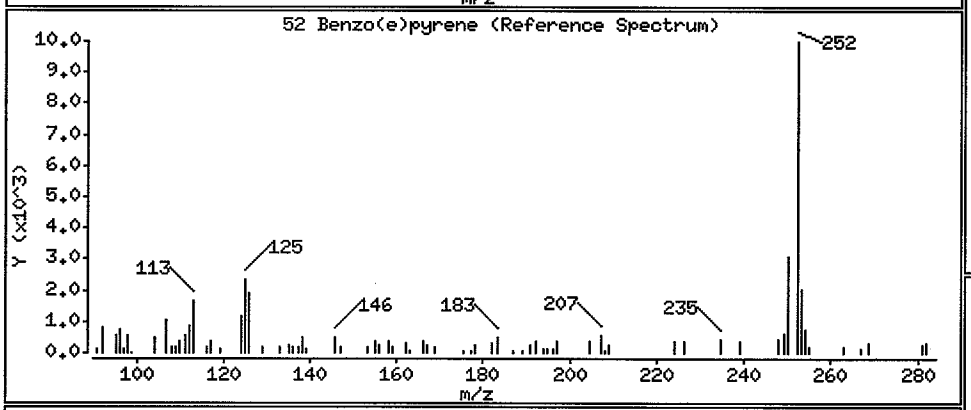
Column diameter: 0.25

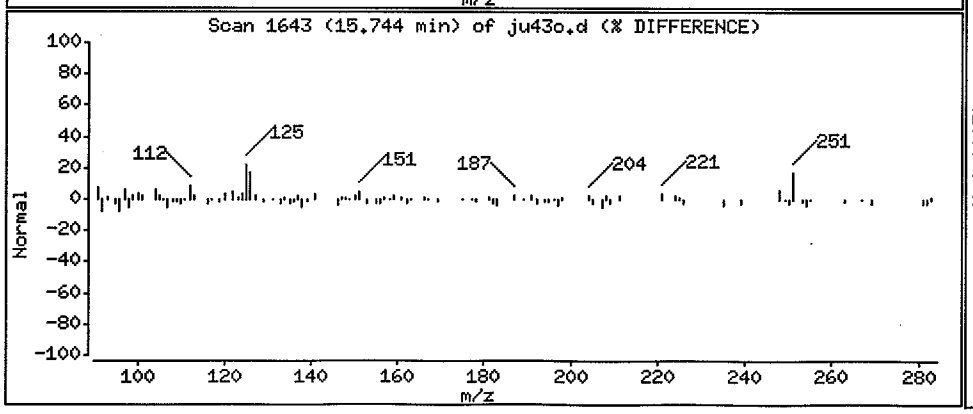
52 Benzo(e)pyrene

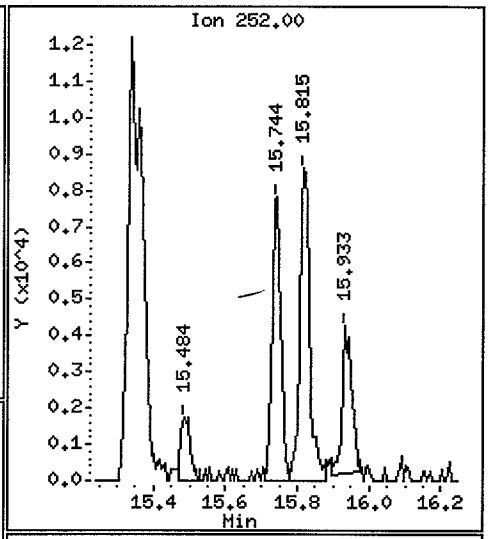
Concentration: 7.095 ug/kg

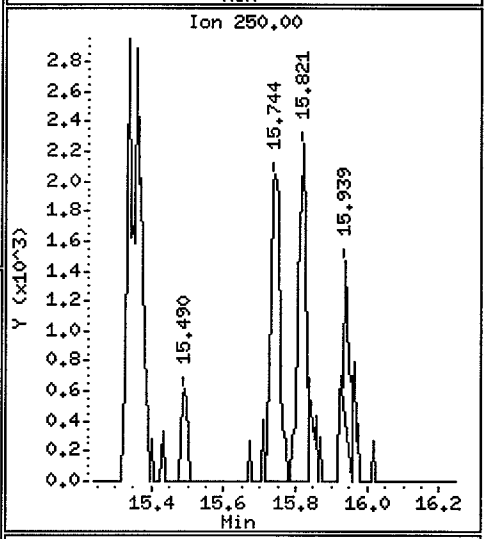


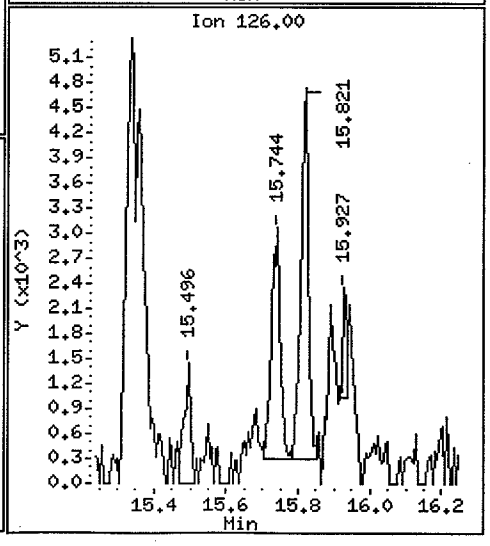












Data File: /chem3/nt1.i/20060912.b/ju43o.d

Date : 12-SEP-2006 20:52

Client ID: T4-S3-04-F

Instrument: nt1.i

Sample Info: JU430

Volume Injected (uL): 1.0

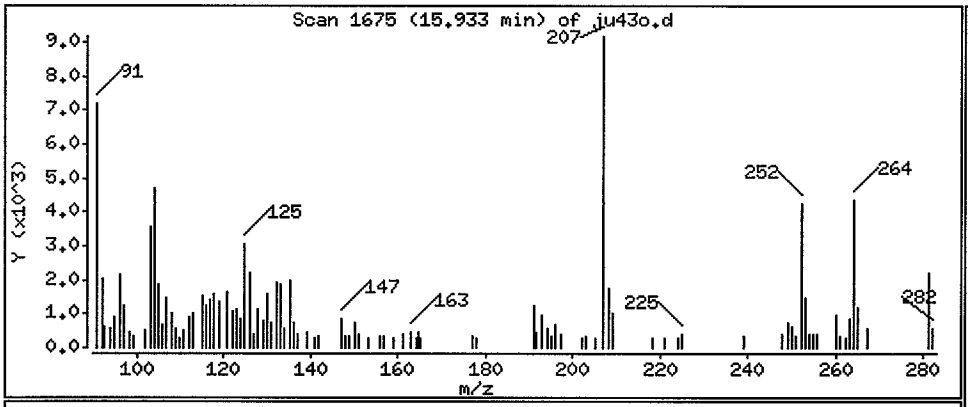
Operator: VTS

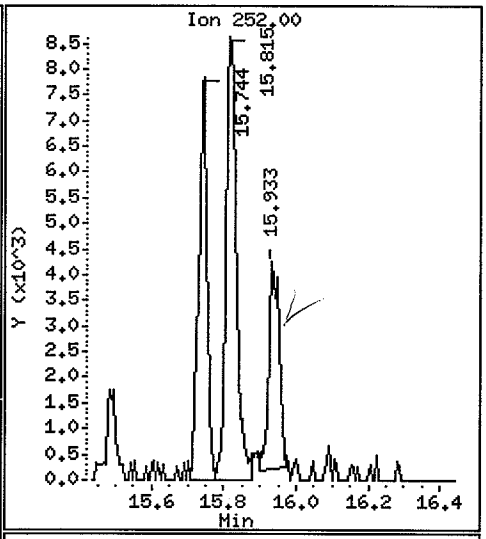
Column phase: ZB-5

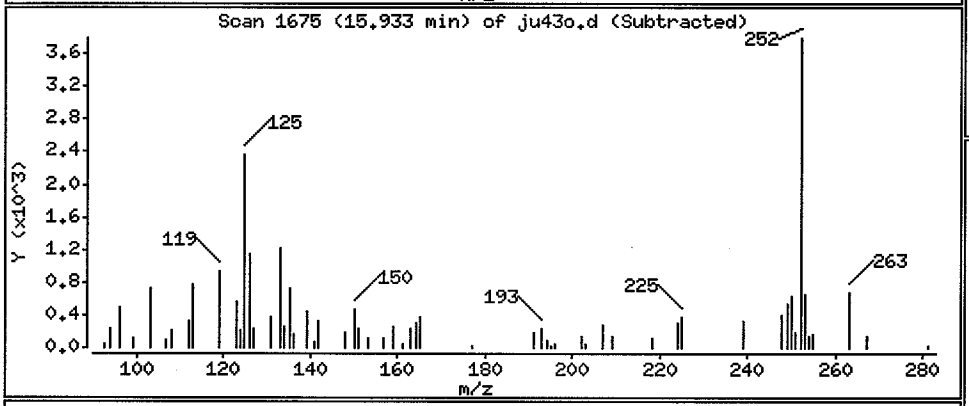
Column diameter: 0.25

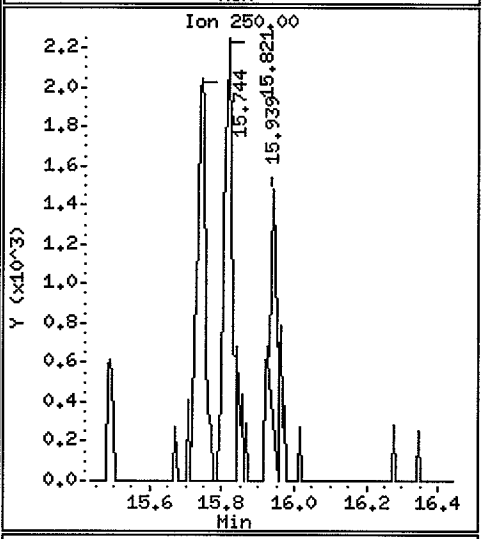
53 Perylene

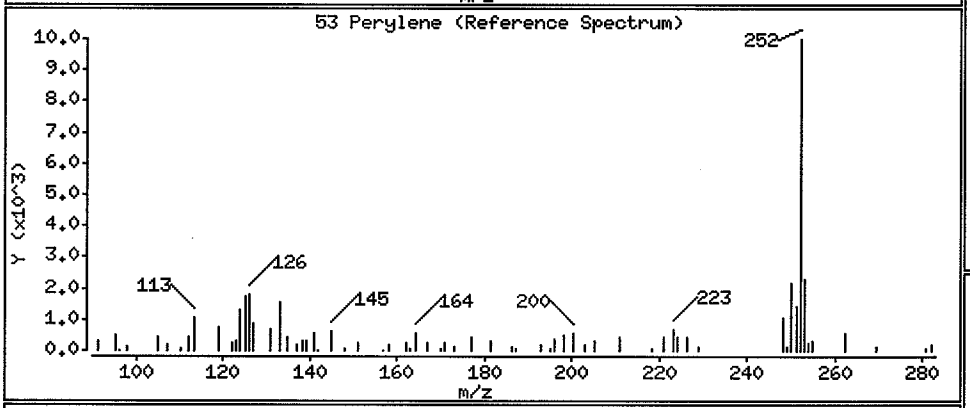
Concentration: 4.624 ug/kg

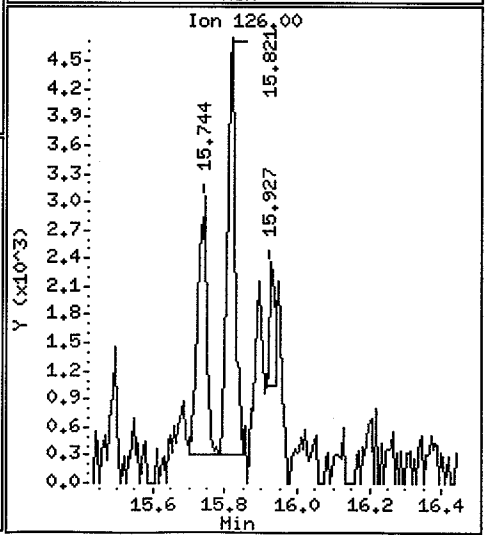


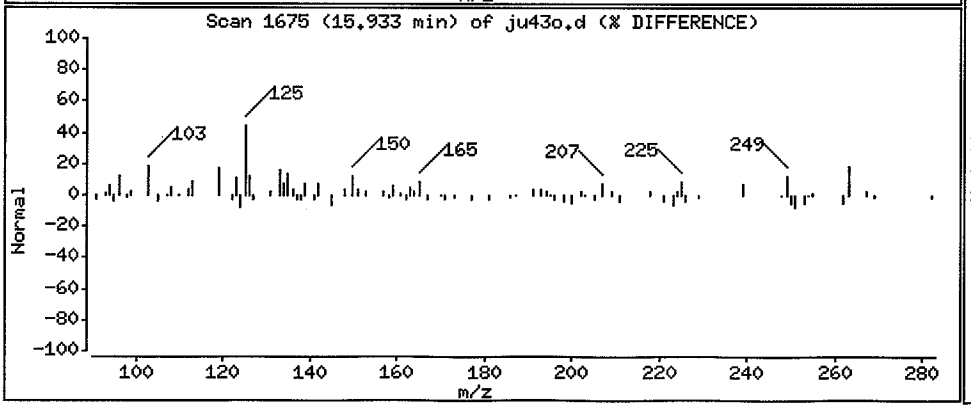












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-03-E**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43P
LIMS ID: 06-15860
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 21:17
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.8%
pH: 6.0

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	5.0	90	
91-57-6	2-Methylnaphthalene	5.0	51	
90-12-0	1-Methylnaphthalene	5.0	29	
208-96-8	Acenaphthylene	5.0	27	
83-32-9	Acenaphthene	5.0	94	
86-73-7	Fluorene	5.0	50	
85-01-8	Phenanthrene	5.0	530	E
120-12-7	Anthracene	5.0	100	
206-44-0	Fluoranthene	5.0	760	E
129-00-0	Pyrene	5.0	920	E
56-55-3	Benzo(a)anthracene	5.0	340	
218-01-9	Chrysene	5.0	460	
205-99-2	Benzo(b)fluoranthene	5.0	310	
207-08-9	Benzo(k)fluoranthene	5.0	380	
50-32-8	Benzo(a)pyrene	5.0	440	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	180	
53-70-3	Dibenz(a,h)anthracene	5.0	53	
191-24-2	Benzo(g,h,i)perylene	5.0	210	
198-55-0	Perylene	5.0	210	
92-52-4	Biphenyl	5.0	12	
581-42-0	2,6-Dimethylnaphthalene	5.0	71	
832-69-9	1-Methylphenanthrene	31	< 31	Y
192-97-2	Benzo(e)pyrene	5.0	280	
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	180	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	87.3%
d14-Dibenzo(a,h)anthracen	65.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43p.d
Lab Smp Id: JU43P Client Smp ID: T4-S3-03-E
Inj Date : 12-SEP-2006 21:17
Operator : VTS Inst ID: nt1.i
Smp Info : JU43P
Misc Info : 06-15860
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.10000	Weight of sample extracted (g)
M	22.80000	% 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	6.813	6.808	(1.000)	345056	2.00000		
	2 Naphthalene	128	6.831	6.832	(1.003)	301295	1.81746	89.86	
$	3 2-Methylnaphthalene-d10	152	7.570	7.564	(1.111)	224474	2.62351	129.7	
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	90325	1.02516	50.68	
	5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	55653	0.58207	28.78	
	7 Acenaphthylene	152	8.693	8.687	(0.980)	78633	0.54762	27.07	
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	174777	2.00000		
	9 Acenaphthene	153	8.911	8.906	(1.005)	163519	1.88551	93.22	
	10 Dibenzofuran	168	9.100	9.095	(1.026)	45399	0.36035	18.21	NR
	11 Fluorene	166	9.520	9.521	(1.073)	95728	1.01739	50.30	
*	15 Phenanthrene-d10	188	10.684	10.679	(1.000)	224867	2.00000		
	16 Phenanthrene	178	10.714	10.709	(1.003)	1294330	10.6186	525.0	E
	17 Anthracene	178	10.773	10.762	(1.008)	255513	2.07842	102.8	
	19 Fluoranthene	202	12.233	12.198	(1.145)	1593170	15.3123	757.0	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.516	12.488	(0.894)	2100777	18.4838	913.8	E
	22 Benzo(a)anthracene	228	13.982	13.965	(0.998)	659334	6.81009	336.7	
*	23 Chrysene-d12	240	14.006	13.989	(1.000)	161487	2.00000		
	24 Chrysene	228	14.035	14.018	(1.002)	851951	9.36424	463.0	
	28 Benzo(b)fluoranthene	252	15.371	15.336	(0.965)	488148	6.31908	312.4	
	29 Benzo(k)fluoranthene	252	15.389	15.366	(0.966)	621526	7.70369	380.9(M)	
	30 Benzo(a)pyrene	252	15.856	15.821	(0.995)	621155	8.91500	440.8	
*	31 Perylene-d12	264	15.933	15.898	(1.000)	136416	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.865	17.813	(1.121)	275602	3.68459	182.2	
$	32 Dibenz(a,h)anthrancene-d14	292	17.776	17.736	(1.116)	87476	1.95682	96.75	
	34 Dibenz(a,h)anthracene	278	17.841	17.807	(1.120)	64979	1.07186	52.99(M)	
	35 Benzo(g,h,i)perylene	276	18.432	18.380	(1.157)	285571	4.32001	213.6	
	48 Biphenyl	154	8.143	8.138	(0.918)	26176	0.24152	11.94	
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	117363	1.43351	70.87	
	50 2,3,5-Trimethylnaphthalene	170	9.355	9.355	(1.055)	229909	3.55491	175.8	
	51 1-Methylphenanthrene	192	11.500	11.477	(0.821)	47972	0.62938	31.12(M)	Y
	52 Benzo(e)pyrene	252	15.773	15.744	(0.990)	442541	5.70126	281.9	
	53 Perylene	252	15.974	15.939	(1.003)	308046	4.25308	210.3	

QC Flag Legend

M - Compound response manually integrated.

VTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43p.d
Lab Smp Id: JU43P
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15860

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-03-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	345056	1.03
8 Acenaphthene-d10	169375	84688	338750	174777	3.19
15 Phenanthrene-d10	232185	116092	464370	224867	-3.15
23 Chrysene-d12	179856	89928	359712	161487	-10.21
31 Perylene-d12	175373	87686	350746	136416	-22.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	14.01	0.12
31 Perylene-d12	15.90	15.40	16.40	15.93	0.22

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

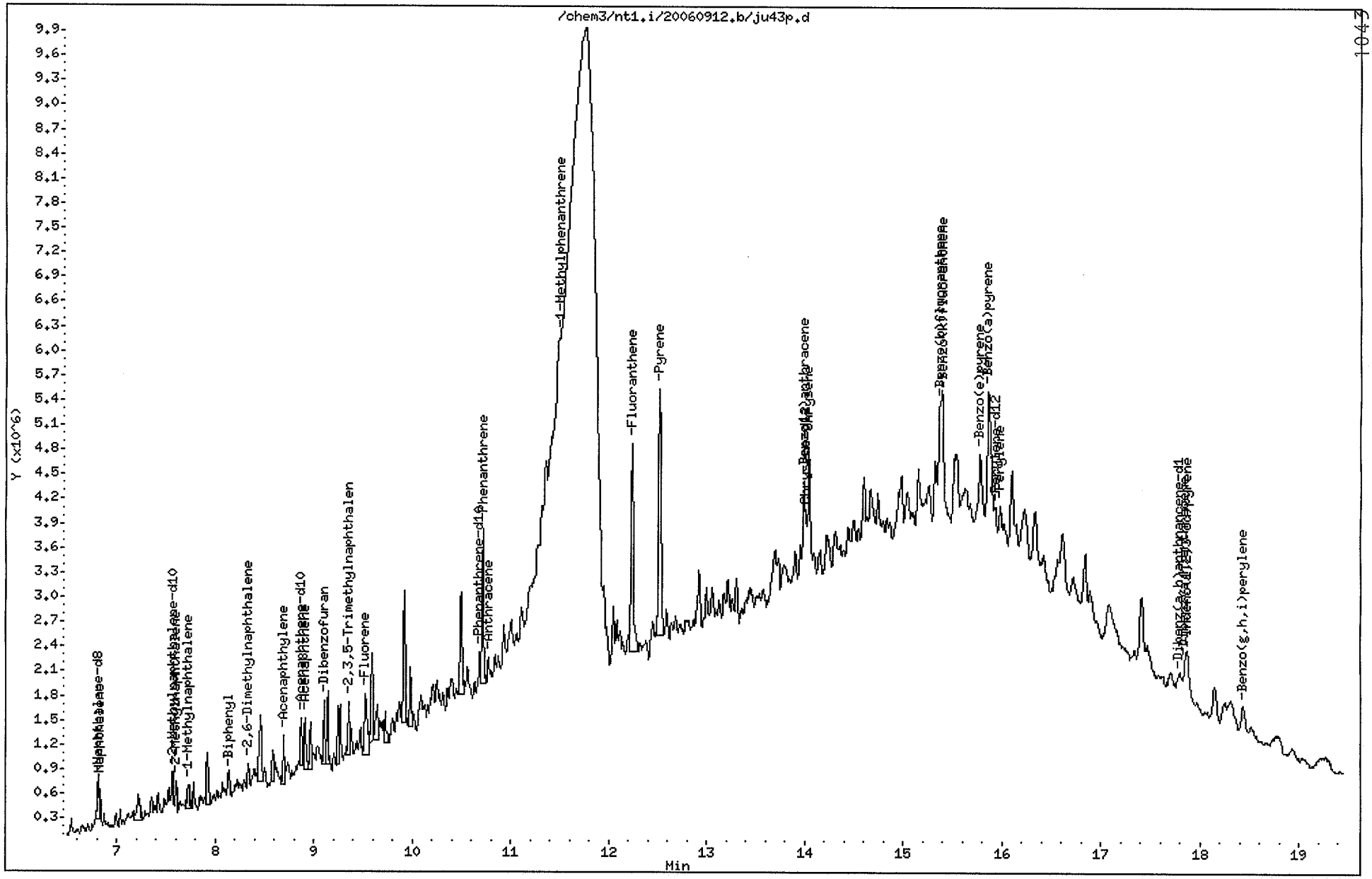
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43P
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15860

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-03-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.3	129.7	87.45	32-97
$ 32 Dibenz(a,h)anthran	148.3	96.75	65.23	21-105

Data File: /chem3/nt1.i/20060912.b/ju43p.d
Date : 12-SEP-2006 21:17
Client ID: T4-S3-03-E
Sample Info: JU43P
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

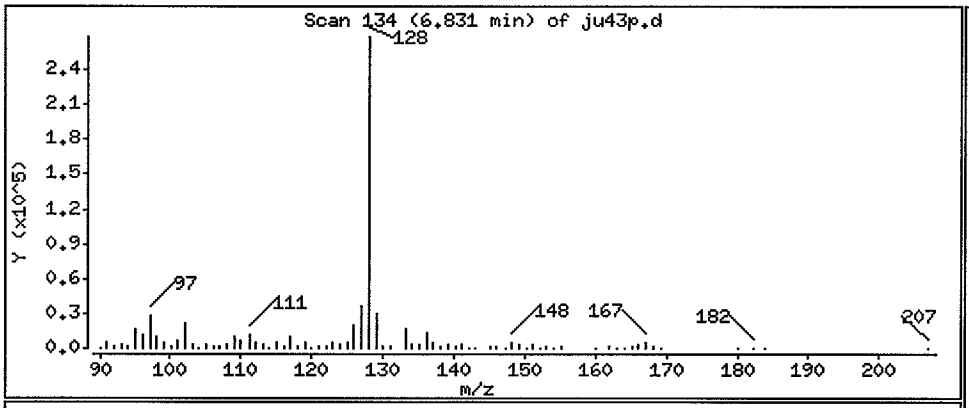
Operator: VTS

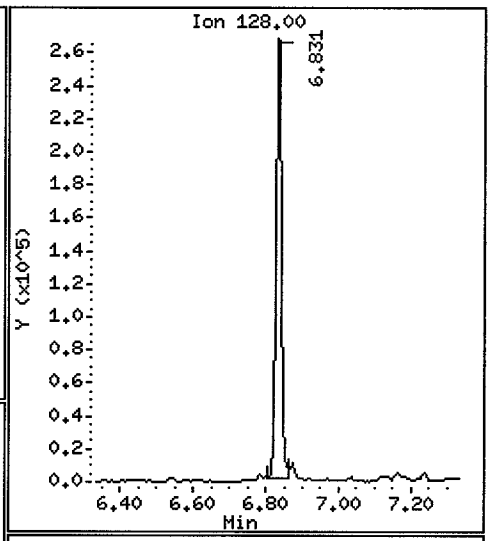
Column phase: ZB-5

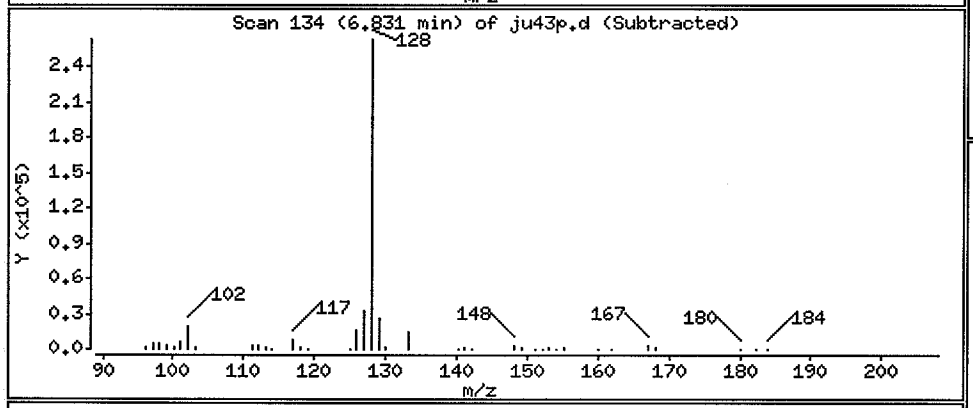
Column diameter: 0.25

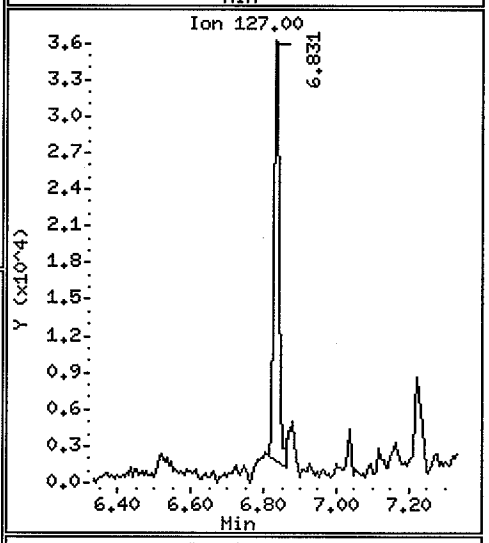
2 Naphthalene

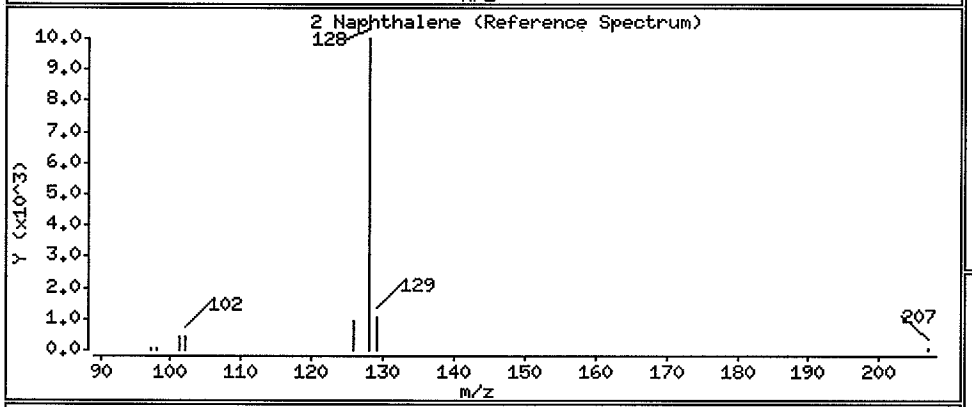
Concentration: 89.86 ug/kg

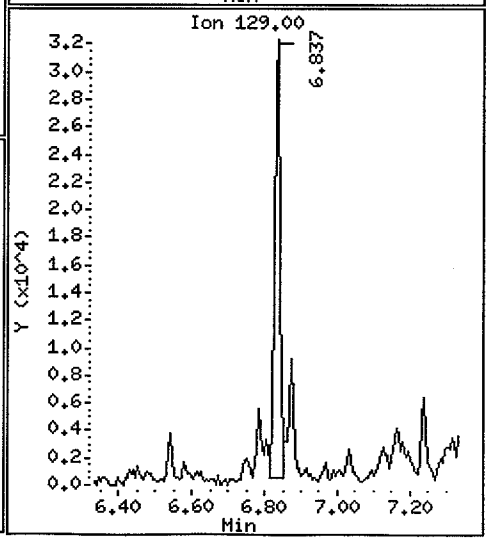


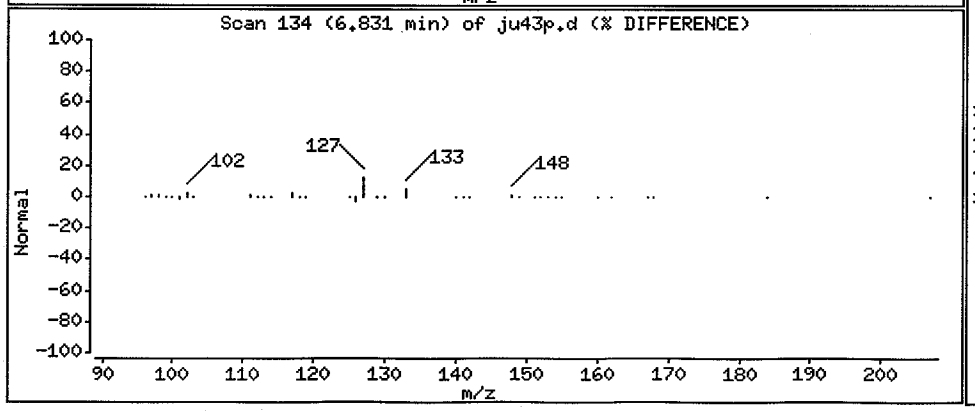












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

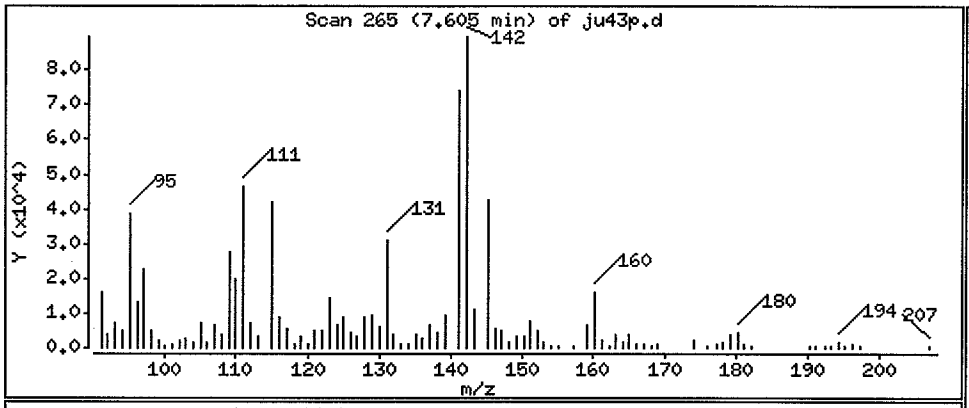
Operator: VTS

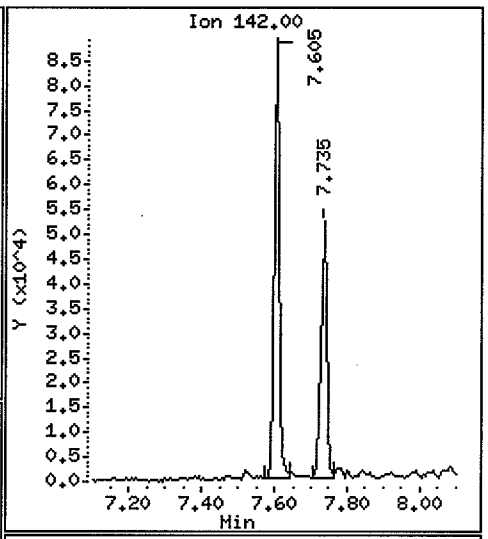
Column phase: ZB-5

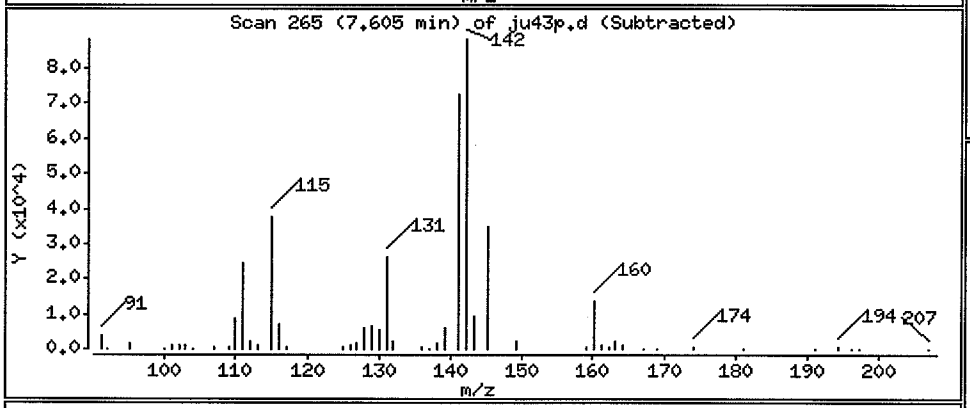
Column diameter: 0.25

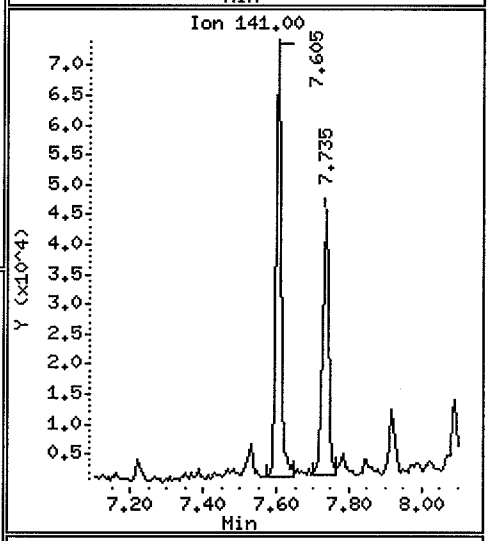
4 2-Methylnaphthalene

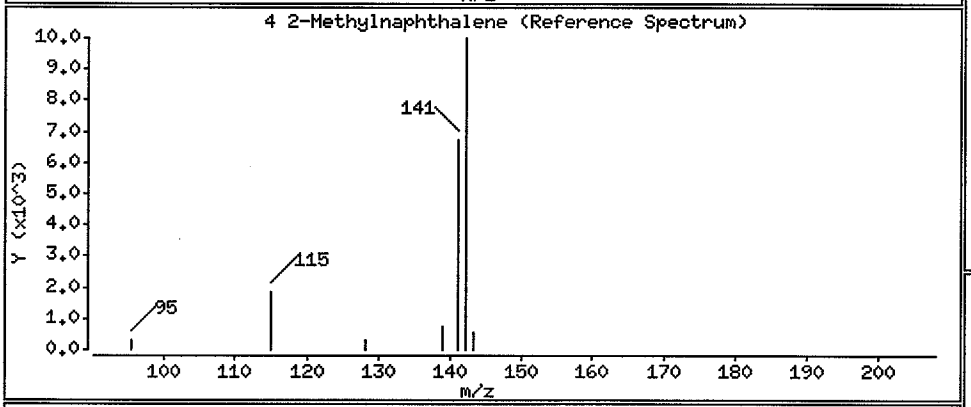
Concentration: 50.68 ug/kg

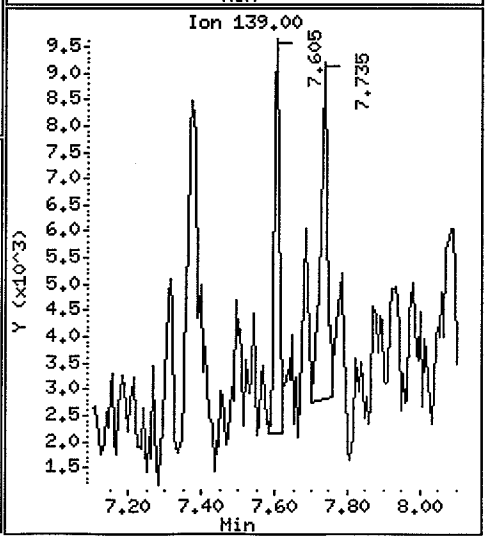


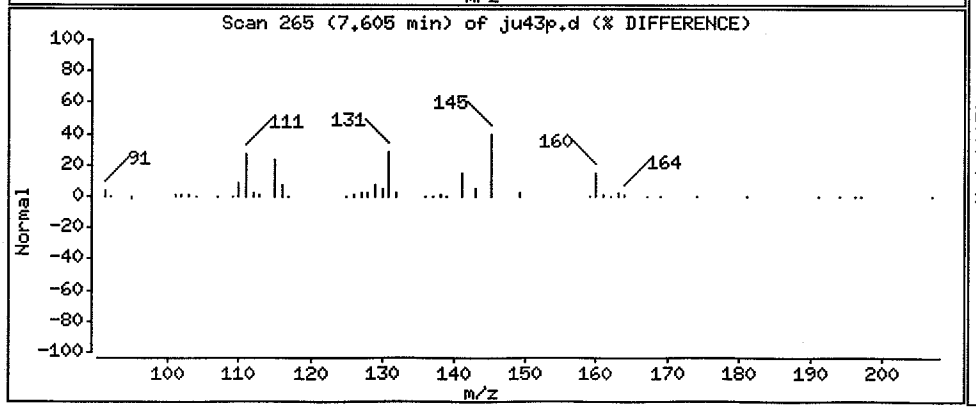












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

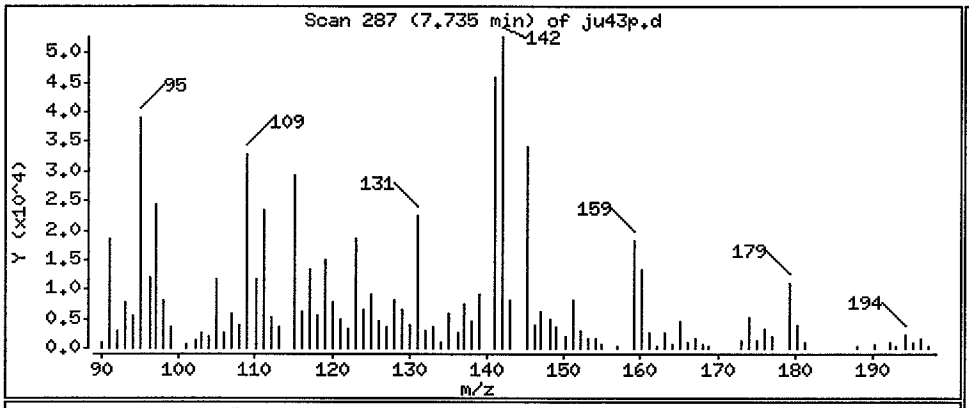
Operator: VTS

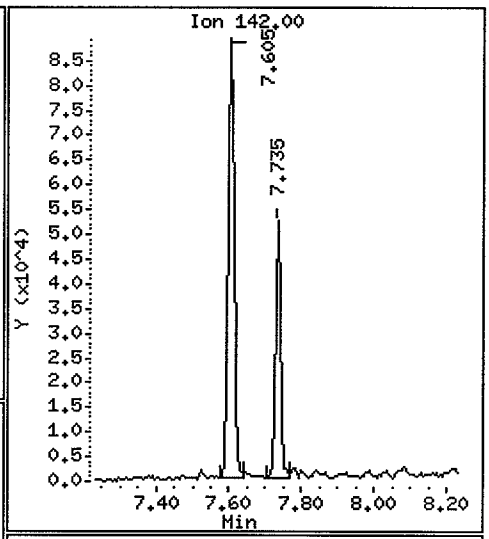
Column phase: ZB-5

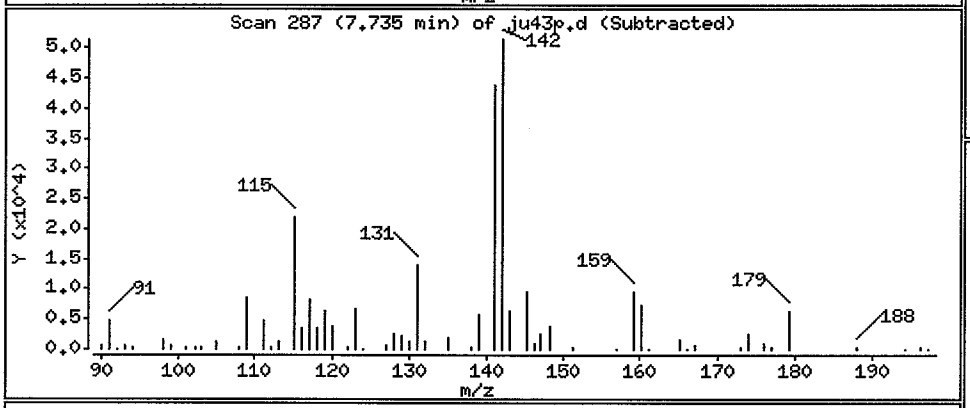
Column diameter: 0.25

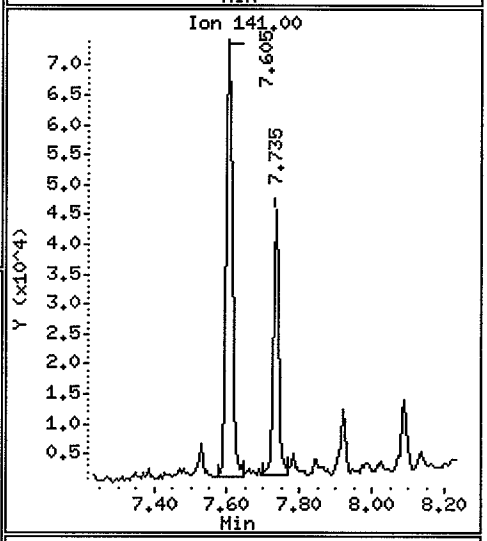
5 1-Methylnaphthalene

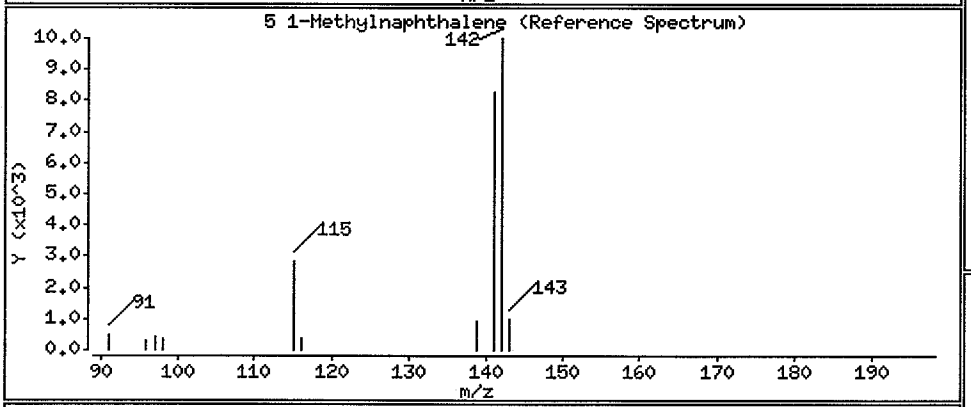
Concentration: 28.78 ug/kg

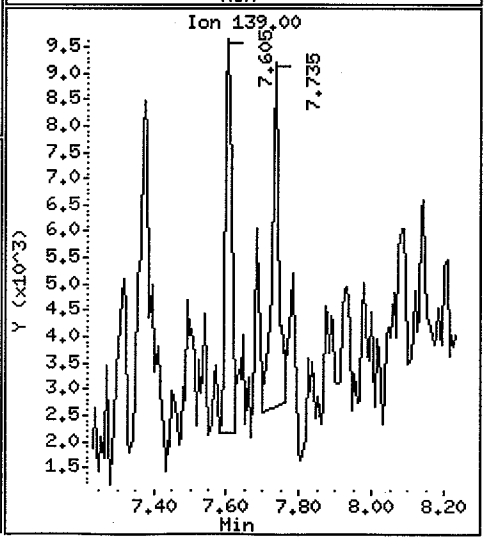


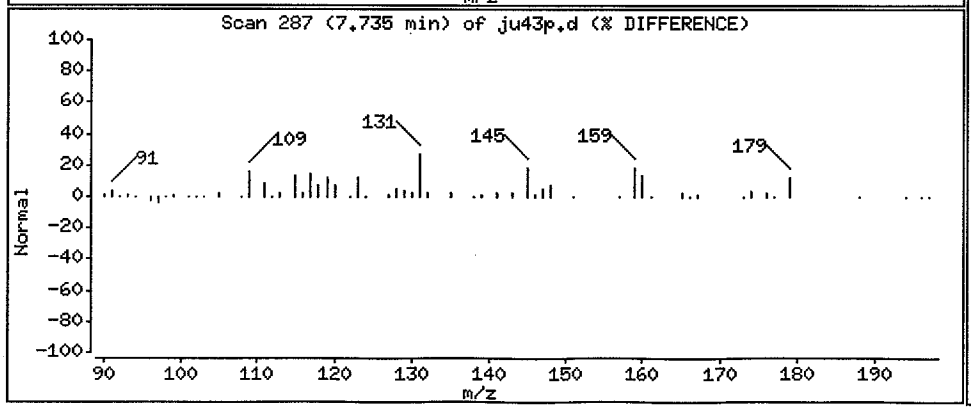












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

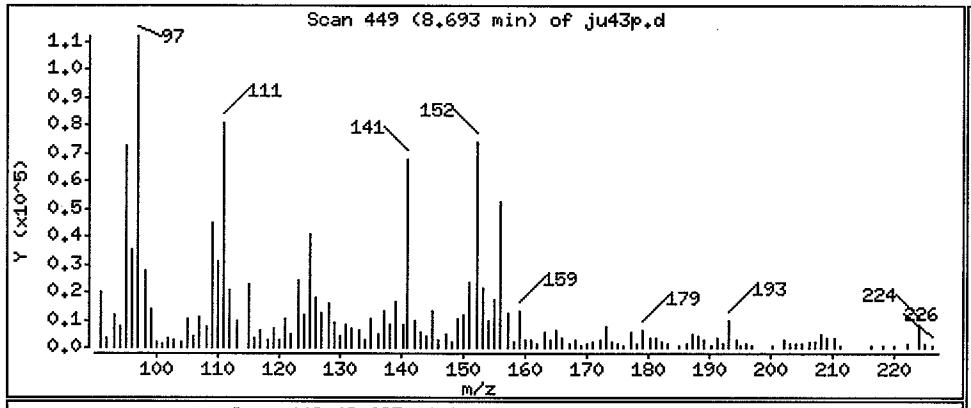
Operator: VTS

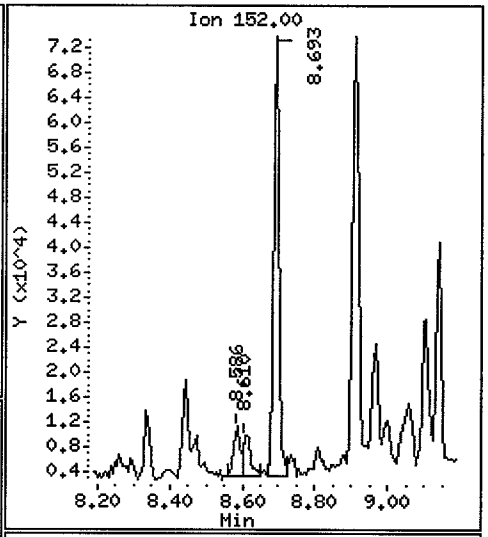
Column phase: ZB-5

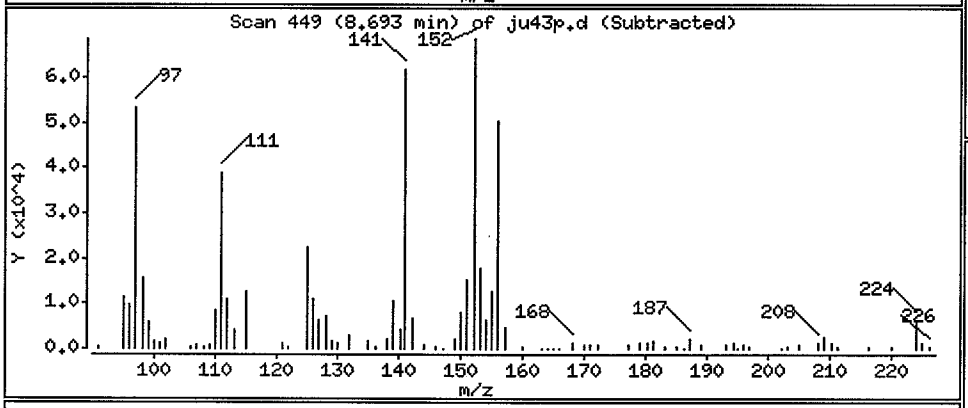
Column diameter: 0.25

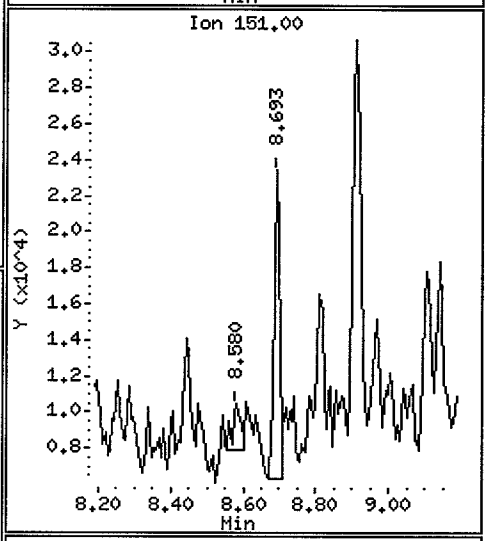
7 Acenaphthylene

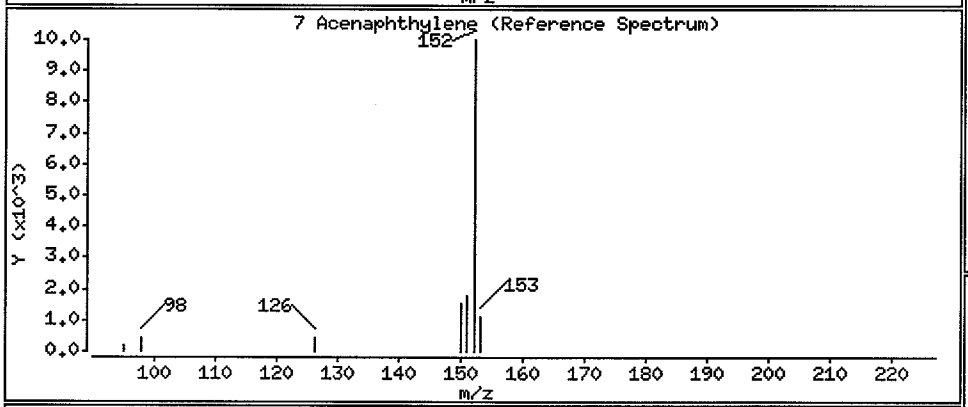
Concentration: 27.07 ug/kg

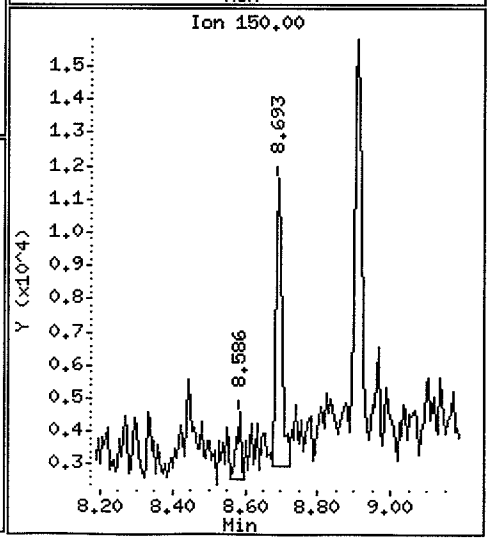


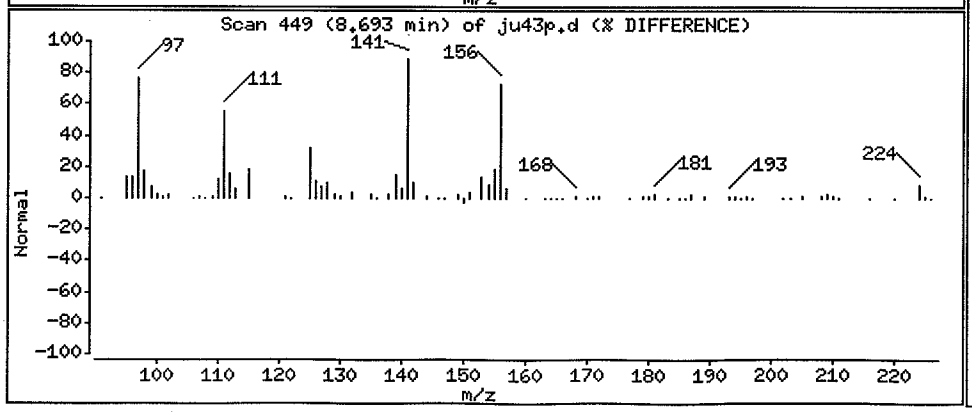












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

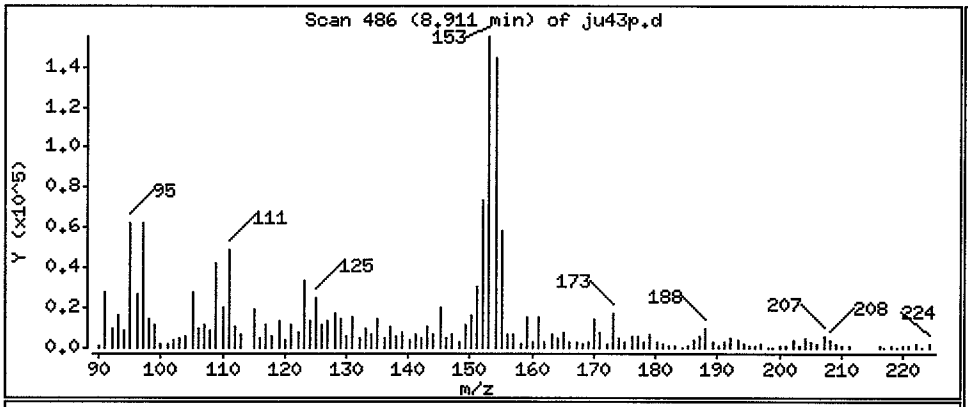
Operator: VTS

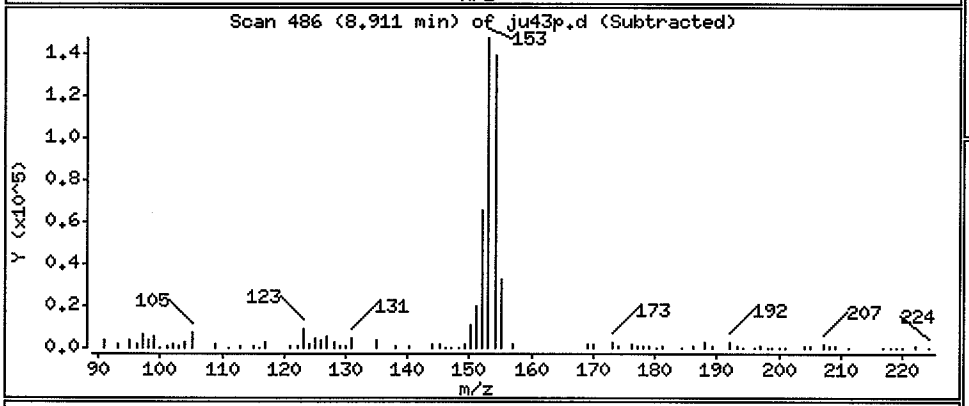
Column phase: ZB-5

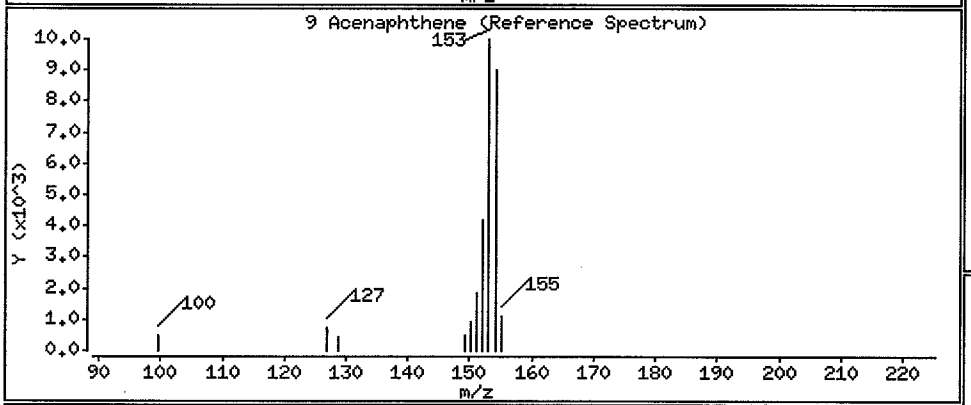
Column diameter: 0.25

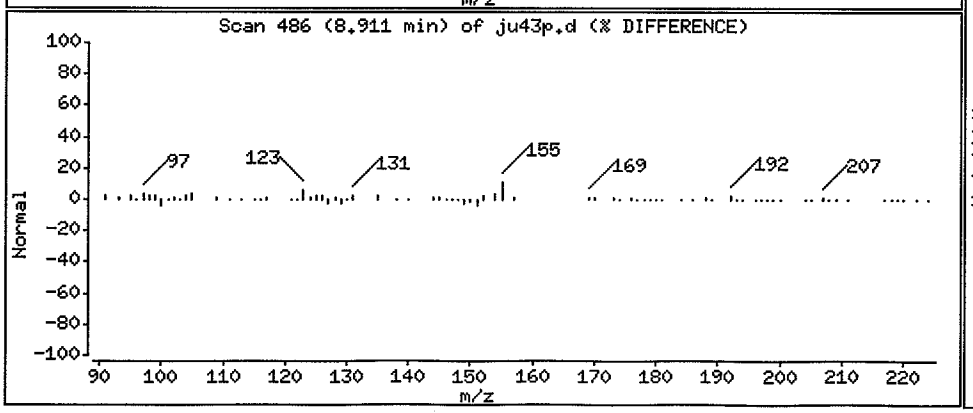
9 Acenaphthene

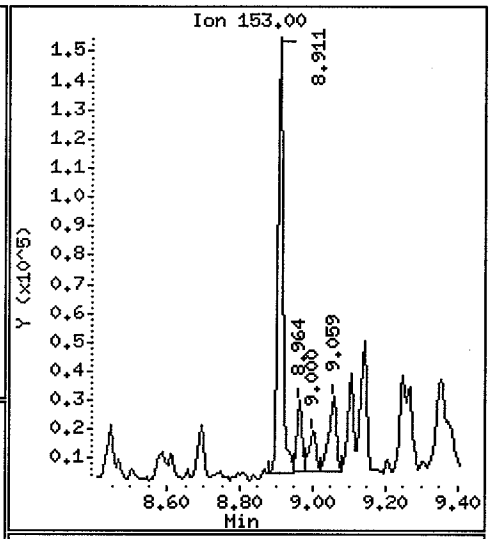
Concentration: 93.22 ug/kg

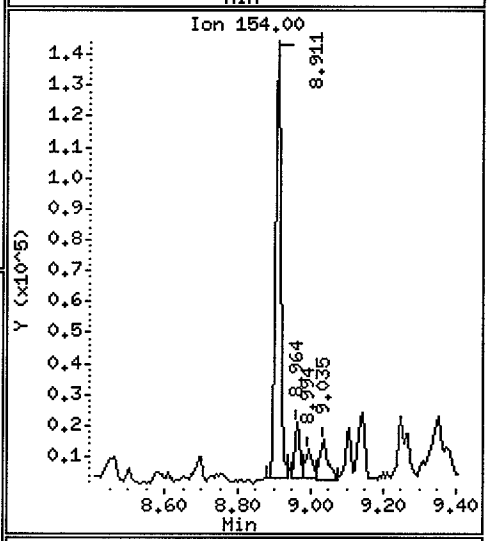


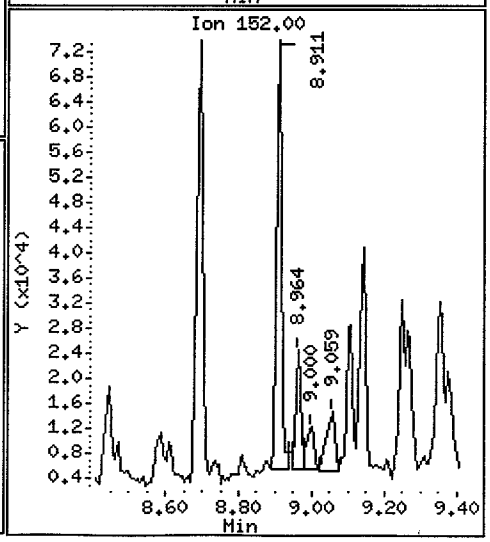












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

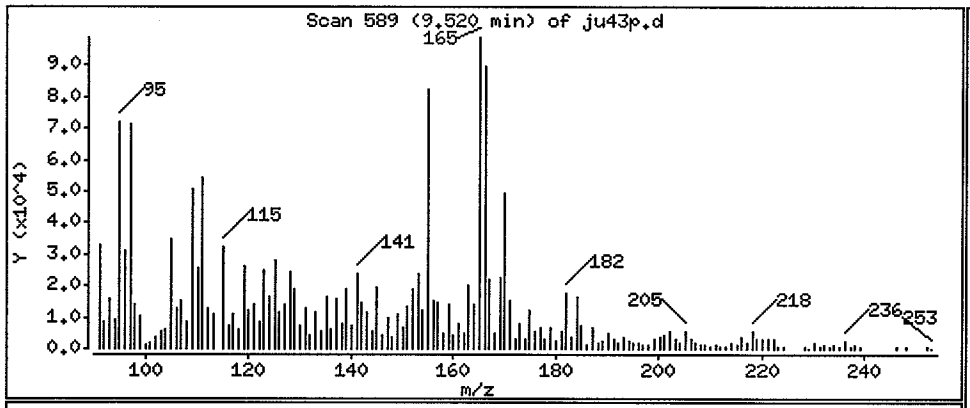
Operator: VTS

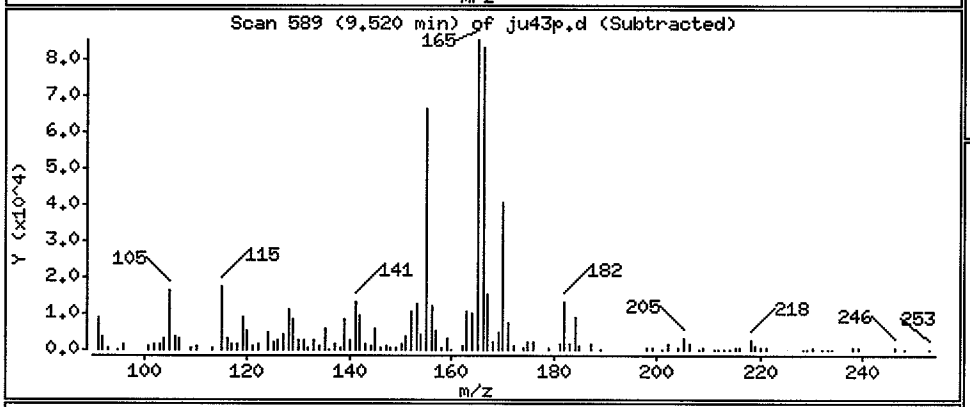
Column phase: ZB-5

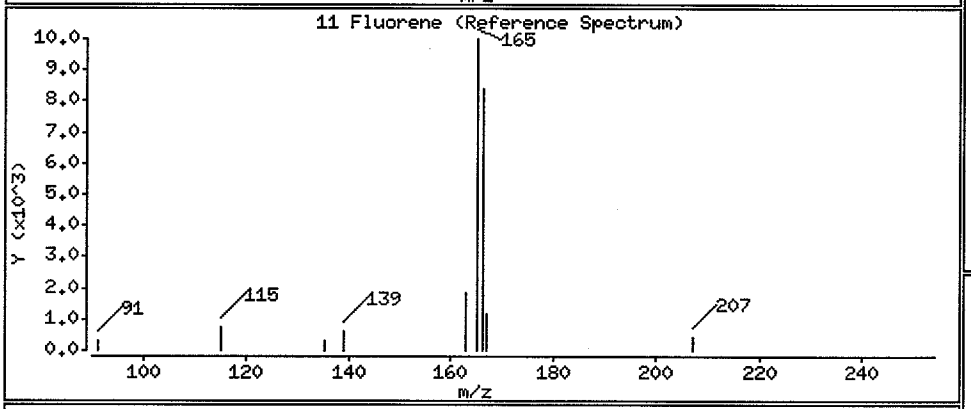
Column diameter: 0.25

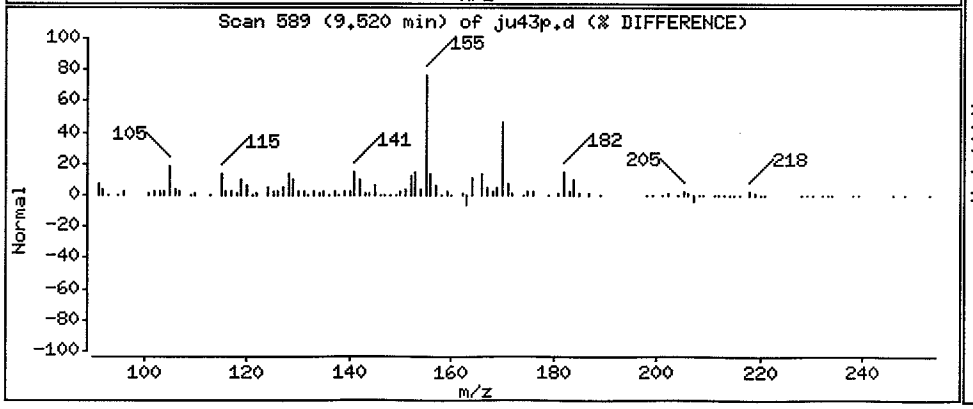
11 Fluorene

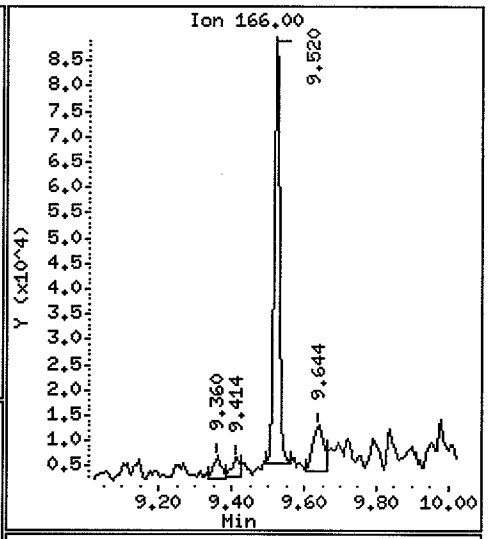
Concentration: 50.30 ug/kg

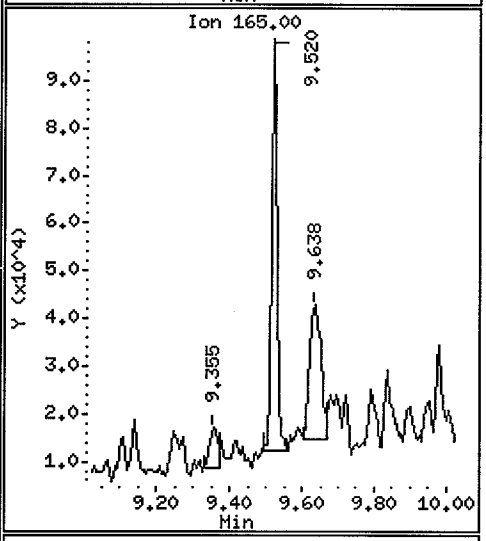


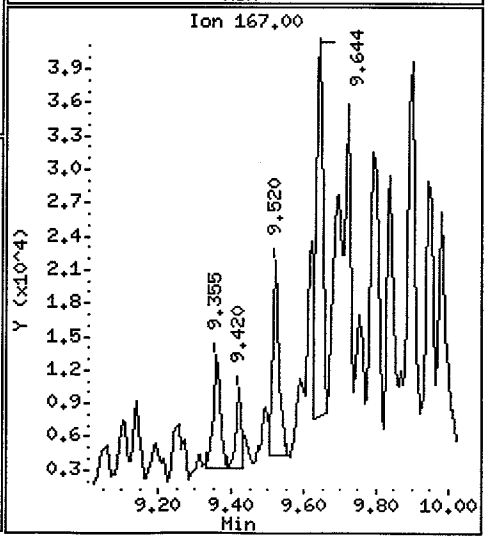












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

Operator: VTS

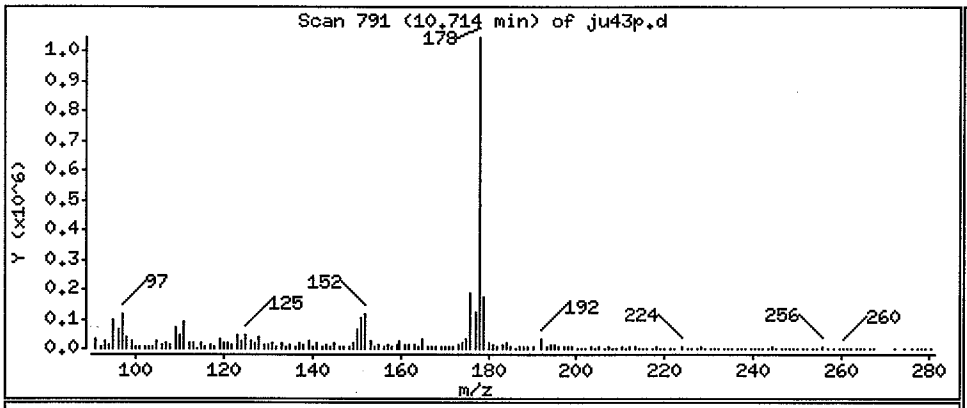
Column phase: ZB-5

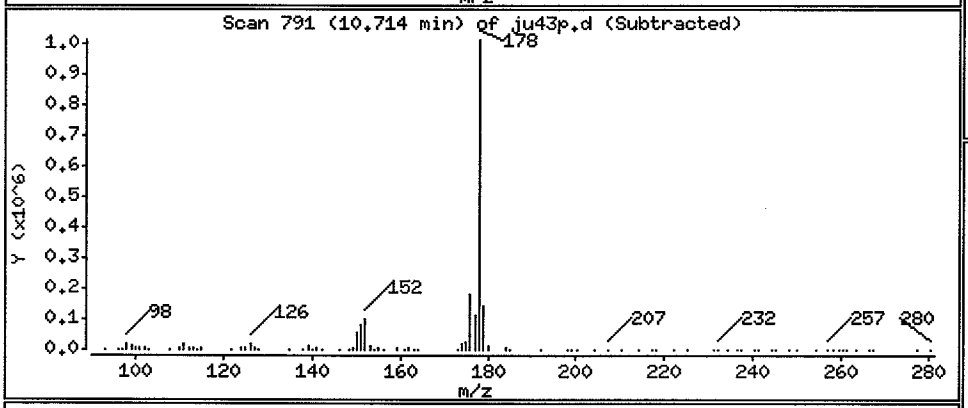
Column diameter: 0.25

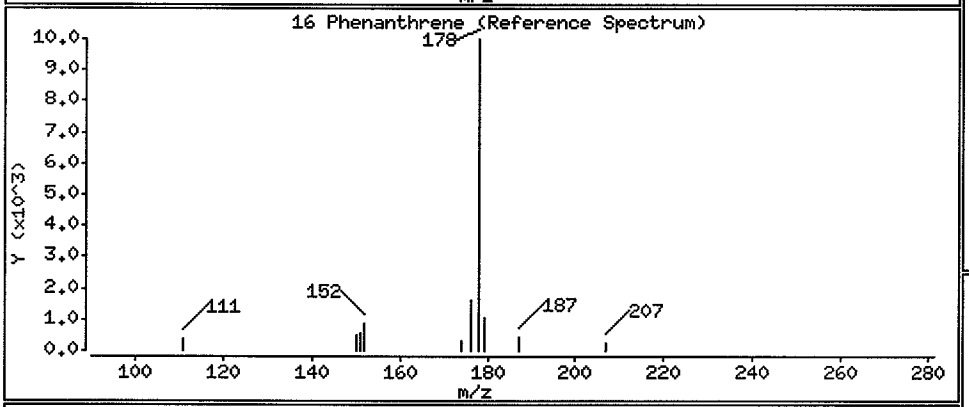
16 Phenanthrene

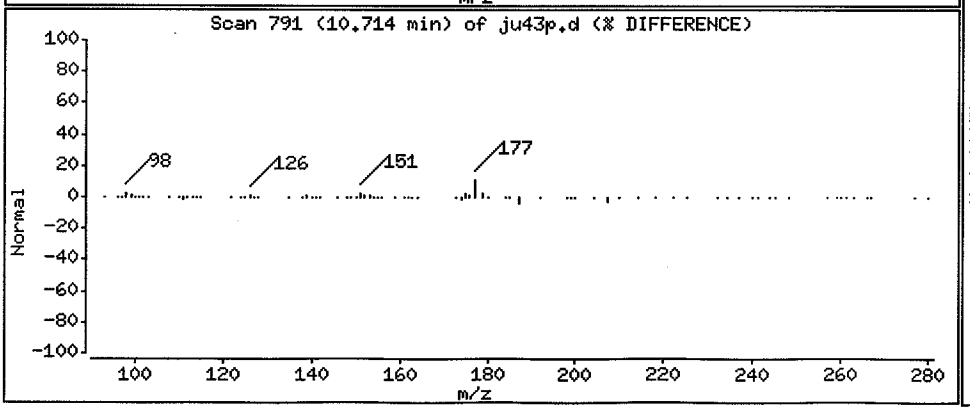
Concentration: 525.0 ug/kg

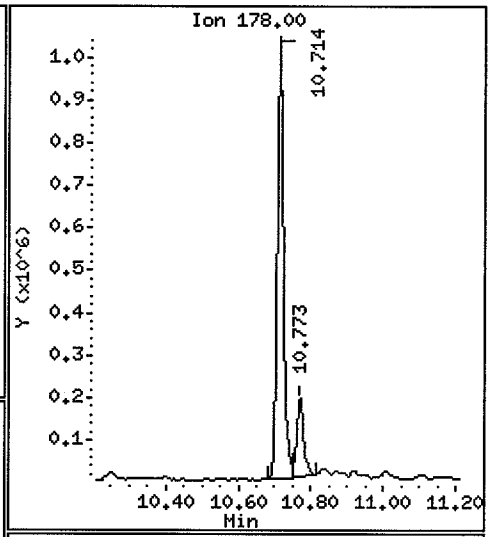
E

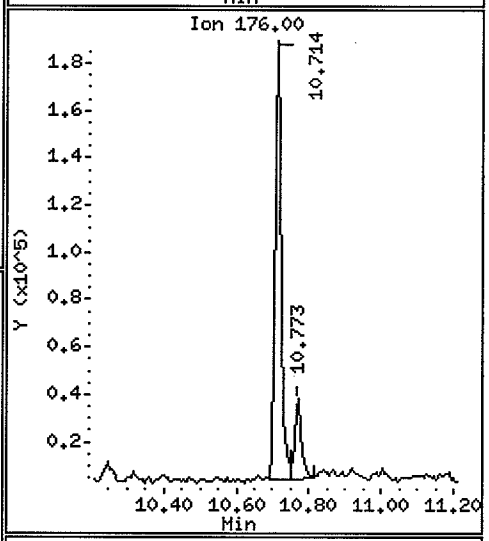


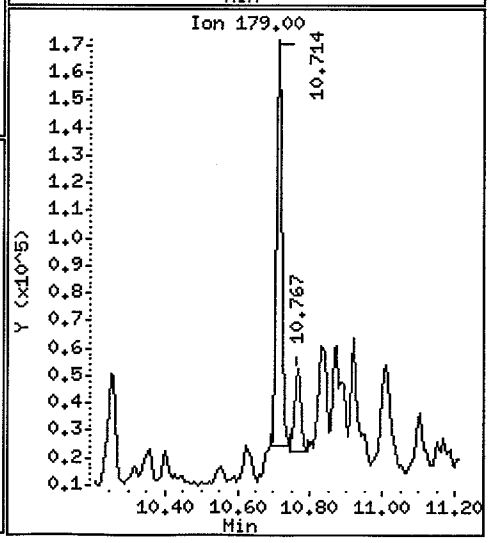












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

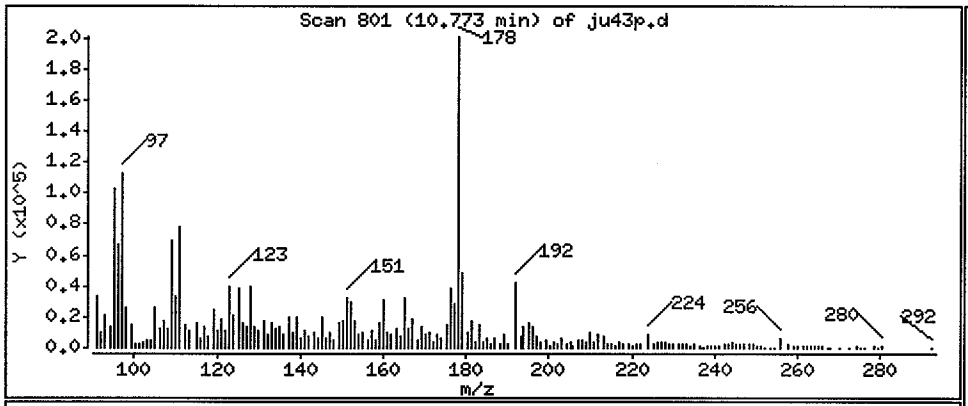
Operator: VTS

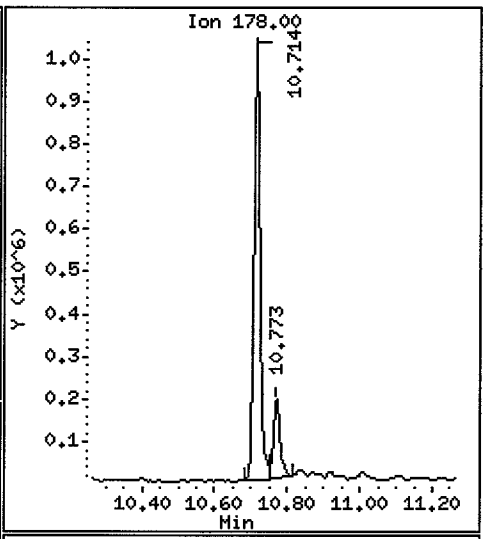
Column phase: ZB-5

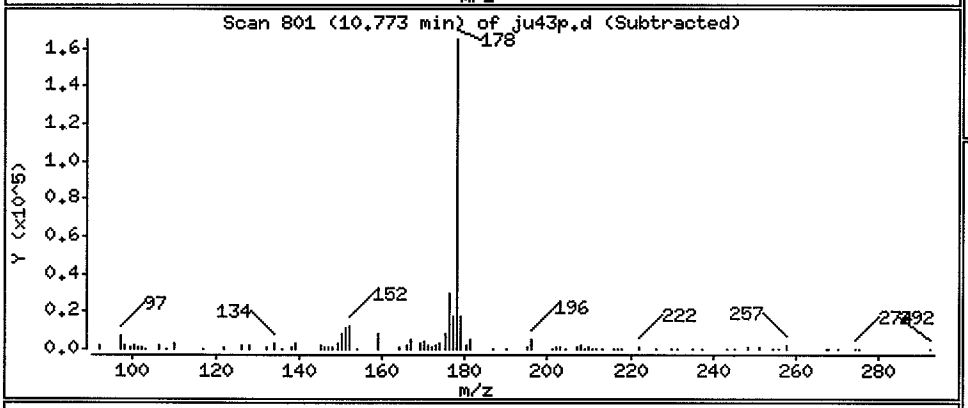
Column diameter: 0.25

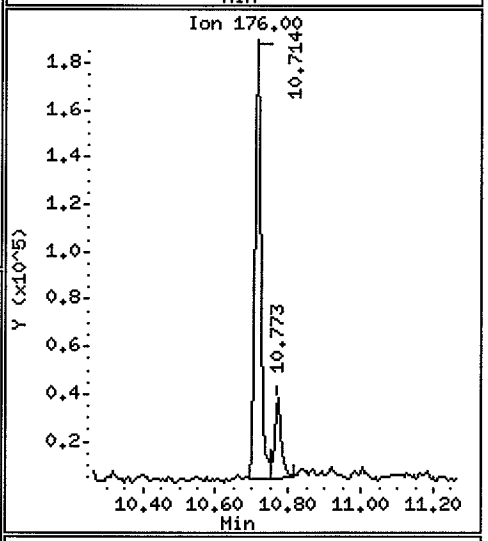
17 Anthracene

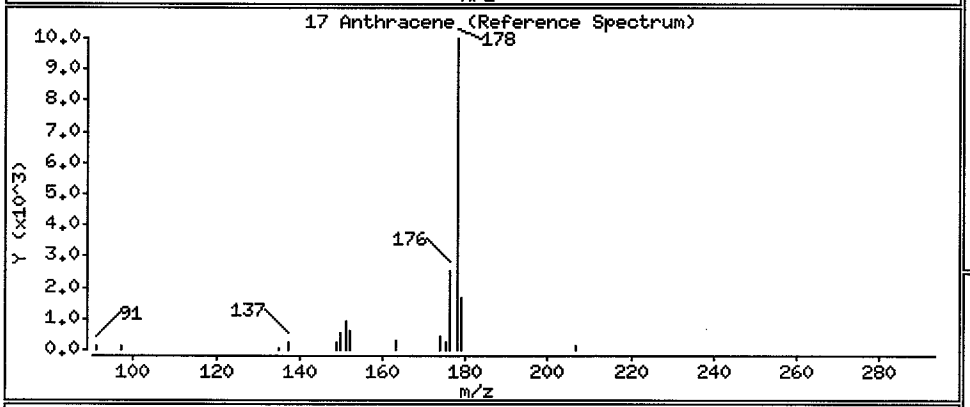
Concentration: 102.8 ug/kg

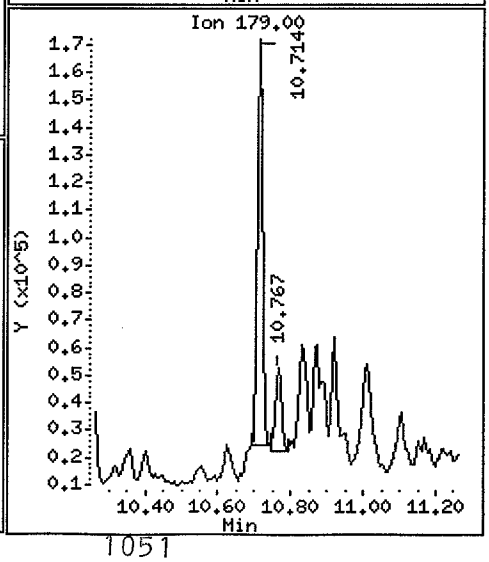


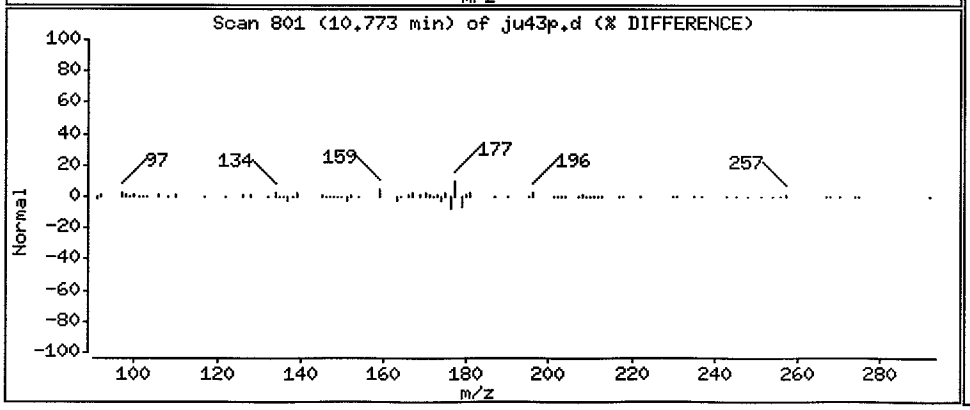












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

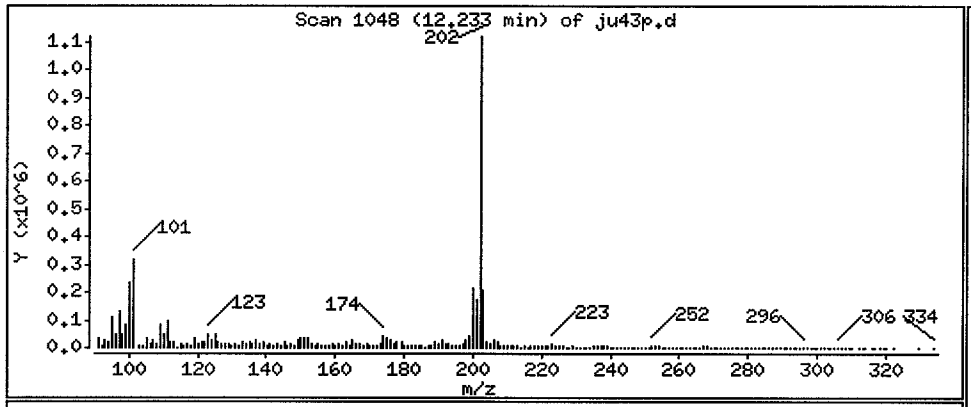
Operator: VTS

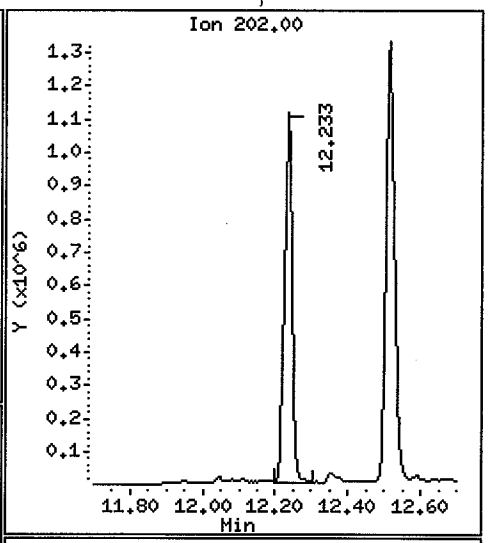
Column phase: ZB-5

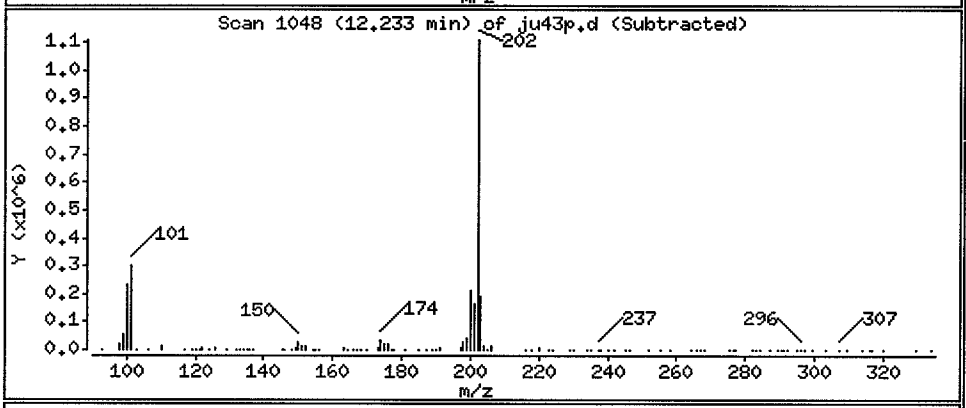
Column diameter: 0.25

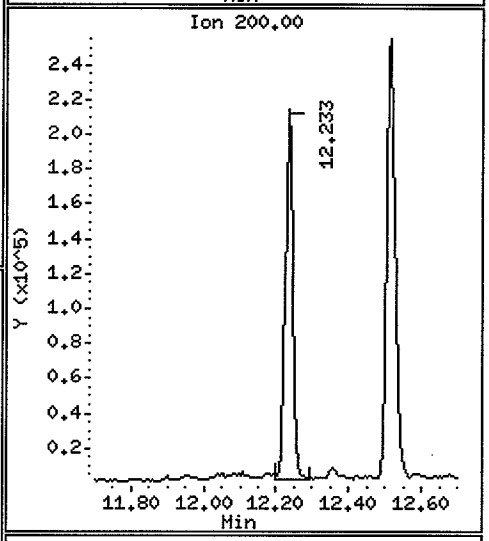
19 Fluoranthene

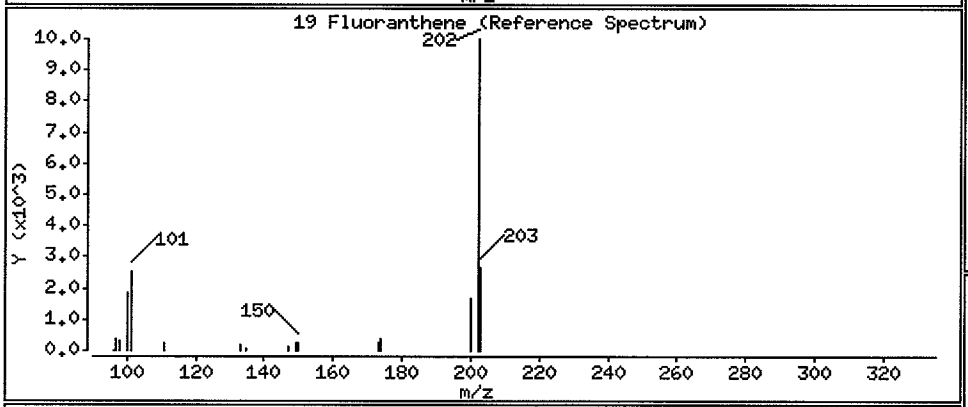
Concentration: 757.0 ug/kg

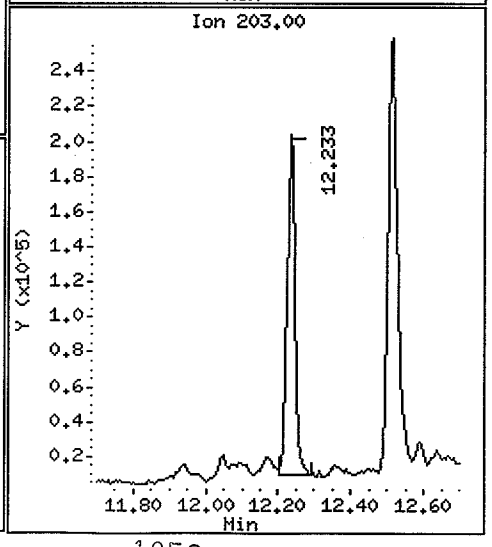


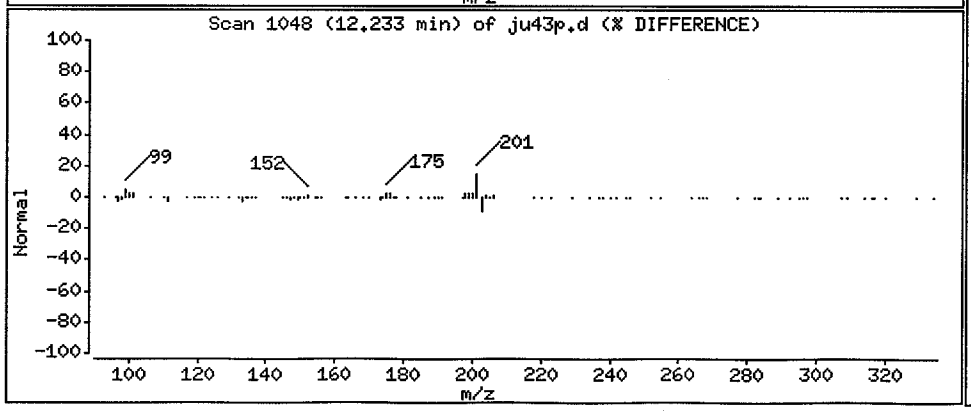












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

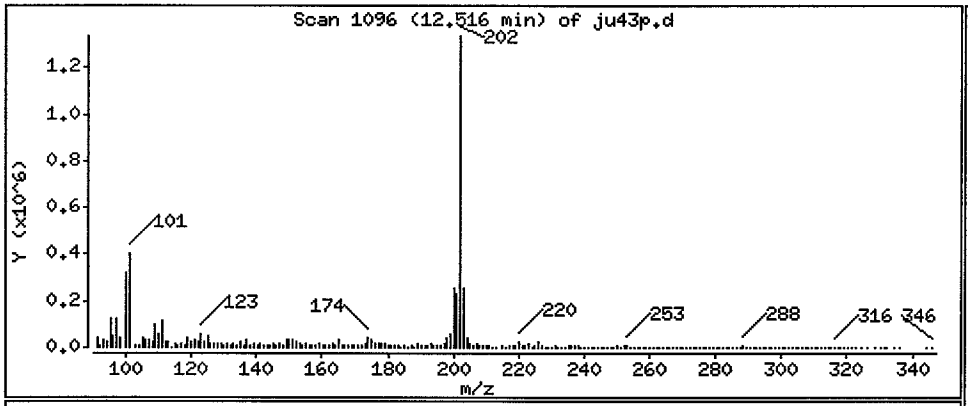
Operator: VTS

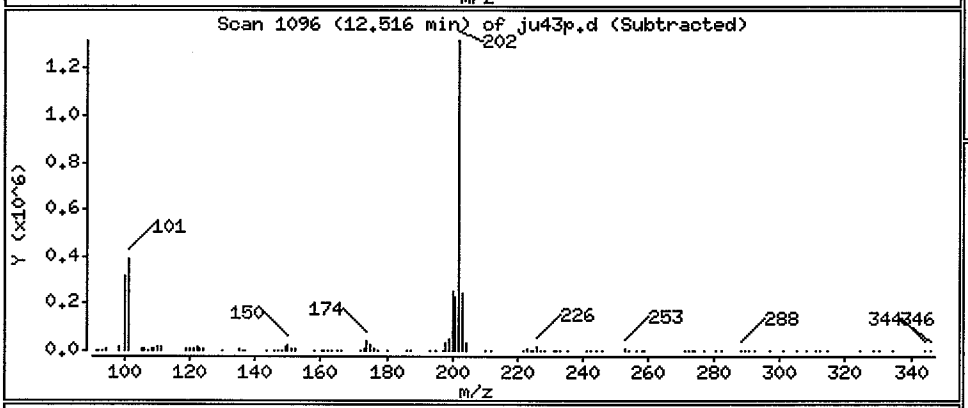
Column phase: ZB-5

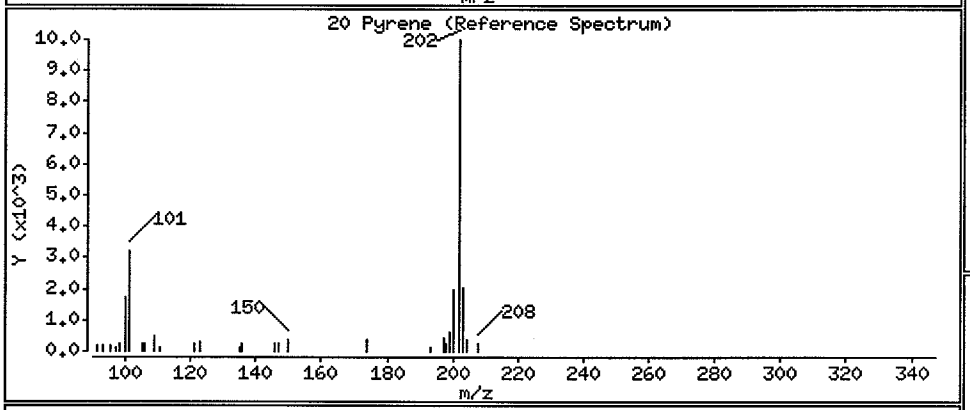
Column diameter: 0.25

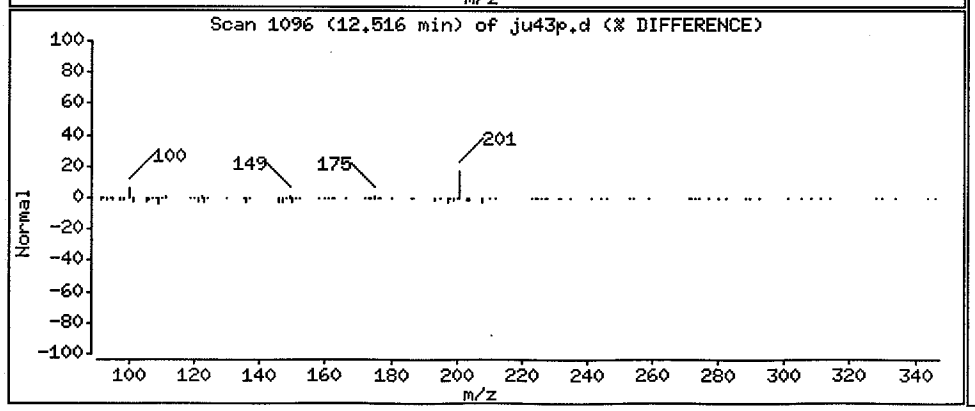
20 Pyrene

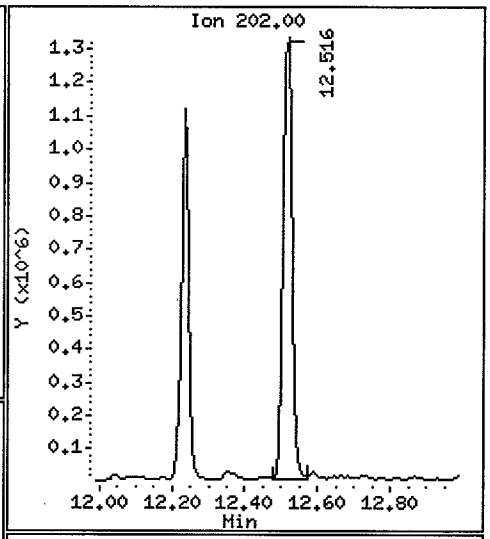
Concentration: 913.8 ug/kg

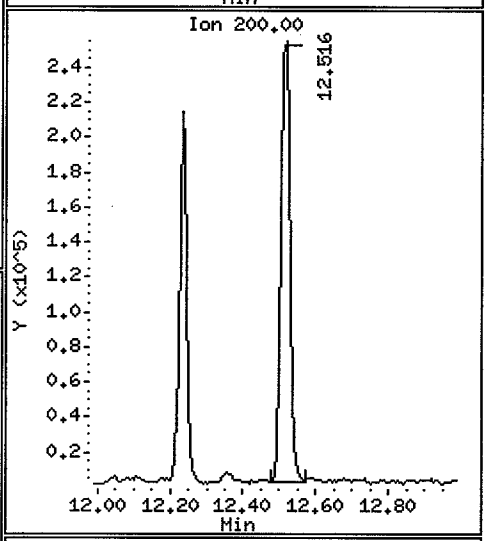


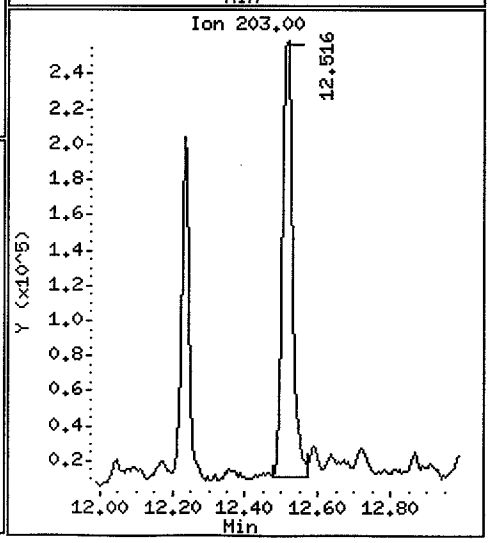












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

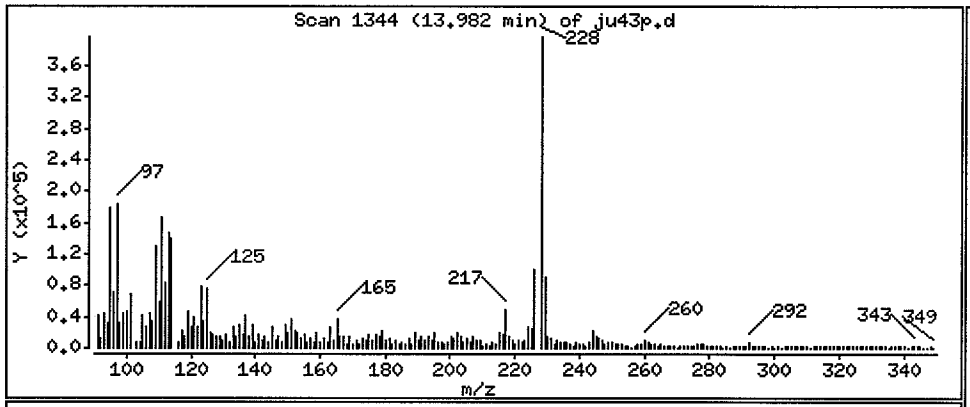
Operator: VTS

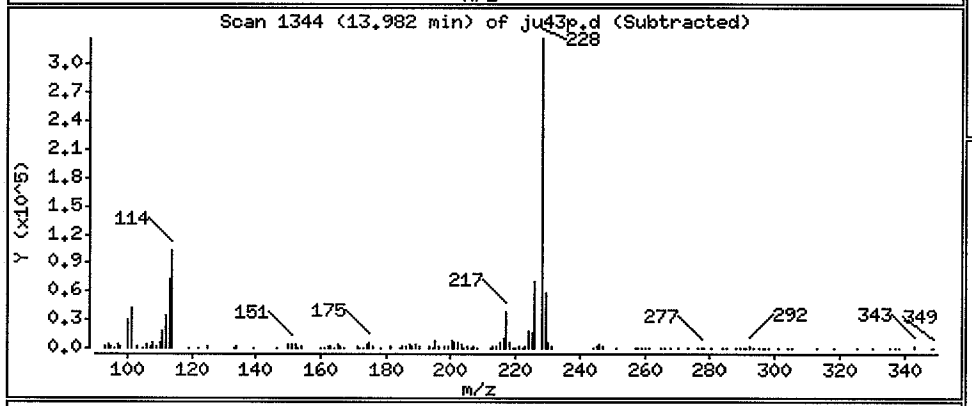
Column phase: ZB-5

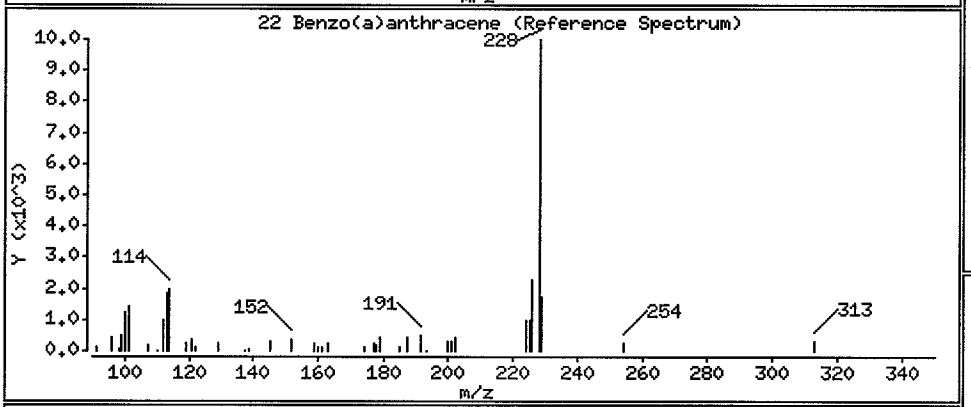
Column diameter: 0.25

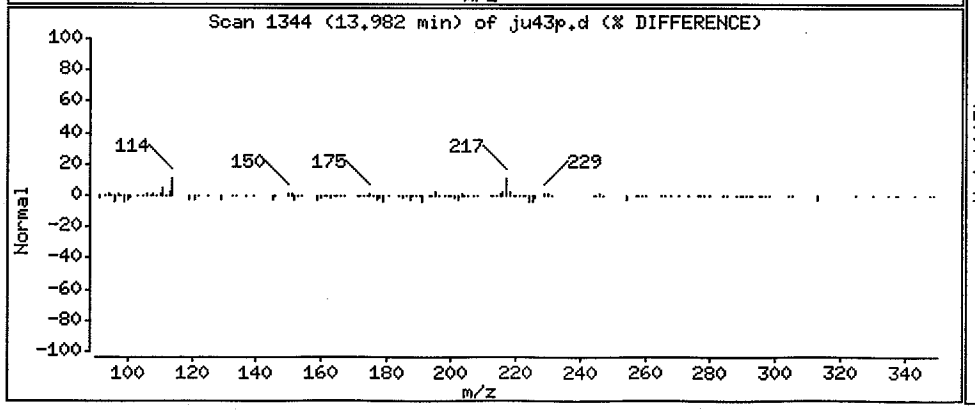
22 Benzo(a)anthracene

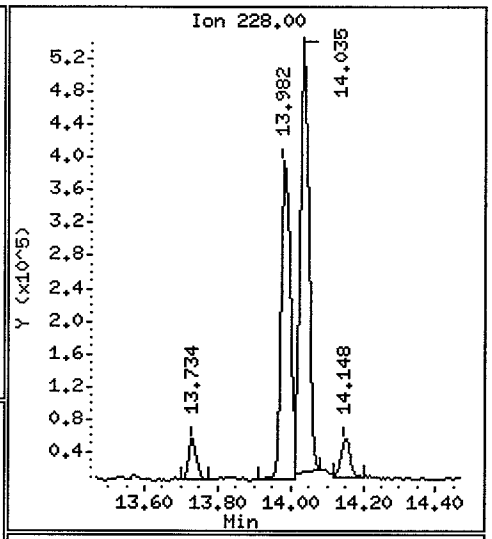
Concentration: 336.7 ug/kg

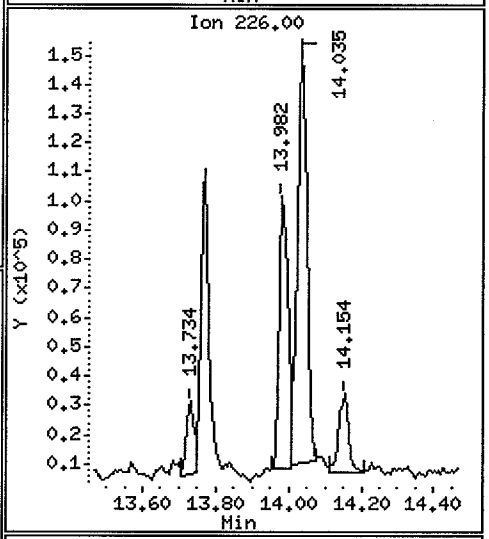


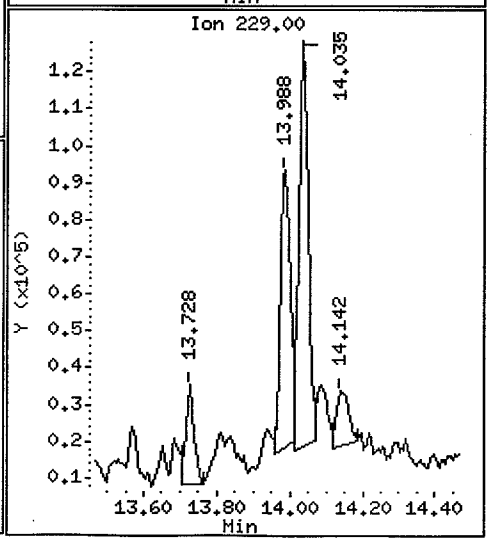












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

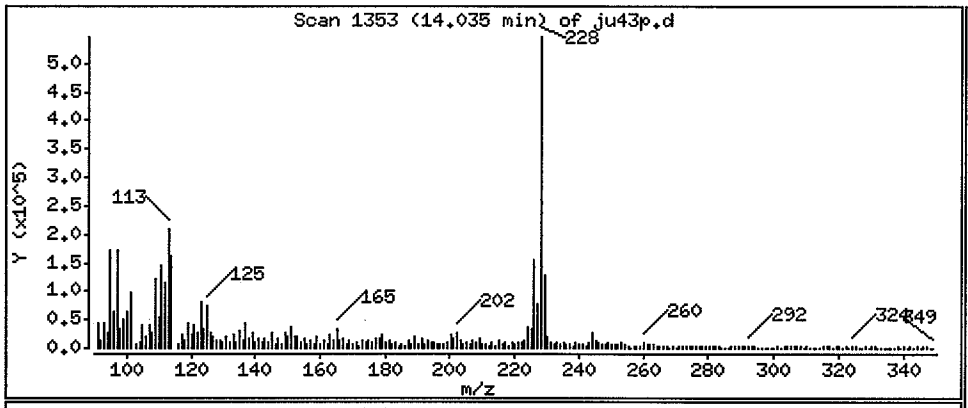
Operator: VTS

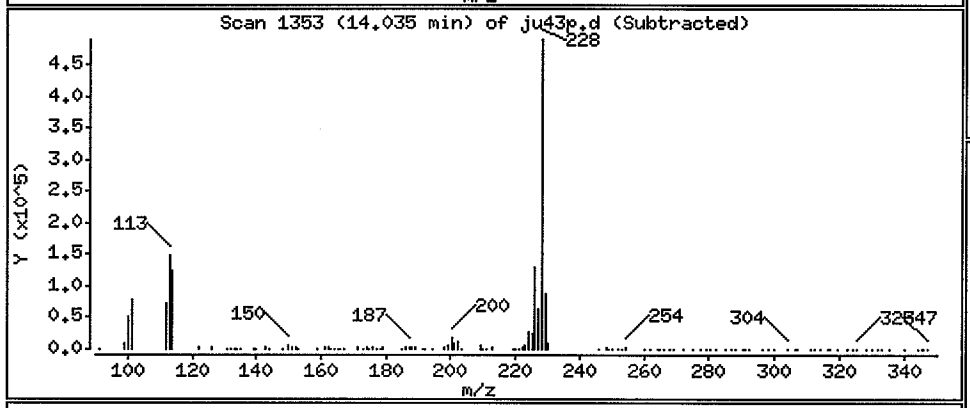
Column phase: ZB-5

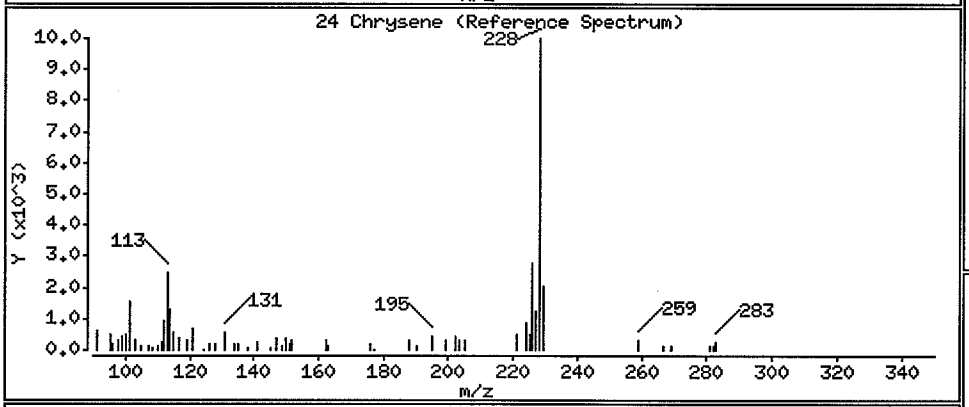
Column diameter: 0.25

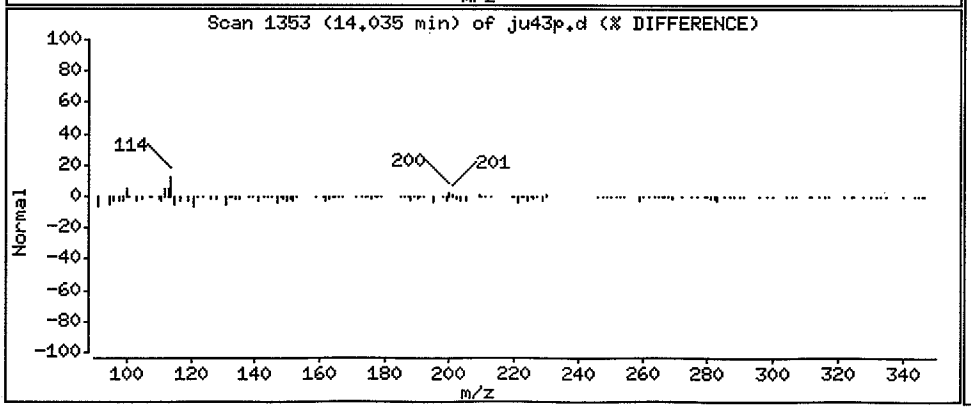
24 Chrysene

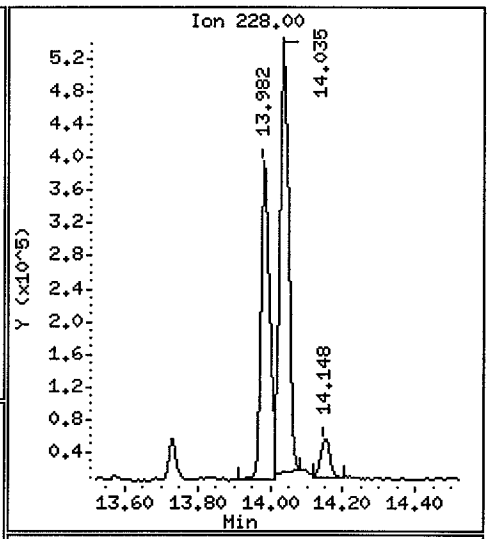
Concentration: 463.0 ug/kg

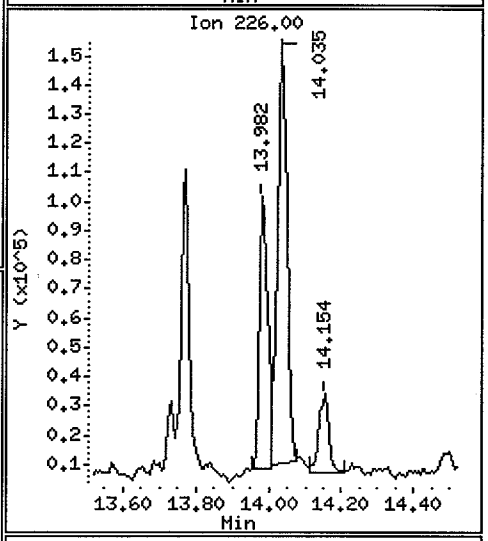


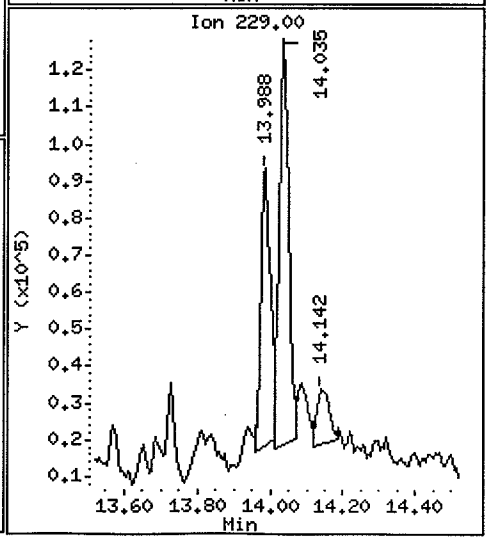












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

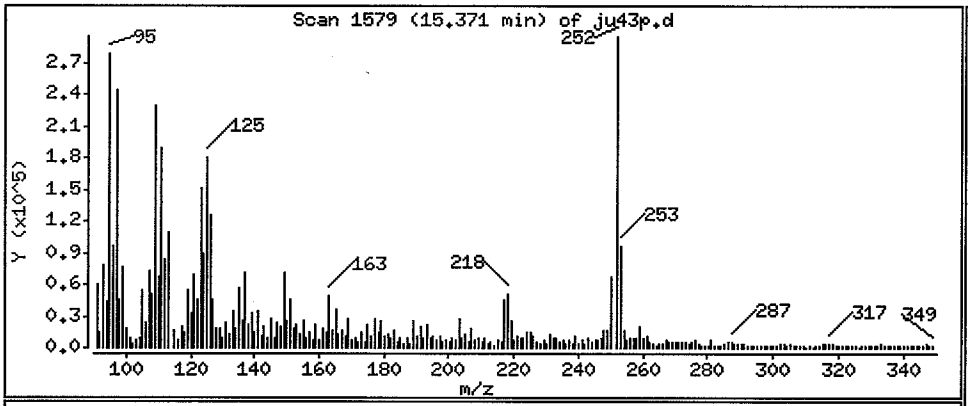
Operator: VTS

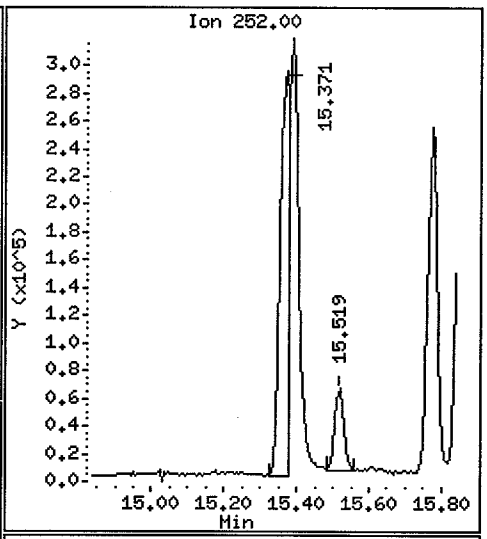
Column phase: ZB-5

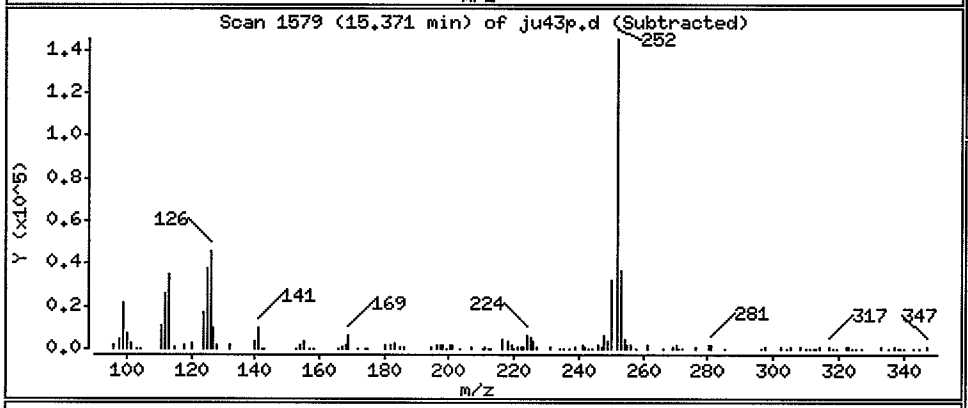
Column diameter: 0.25

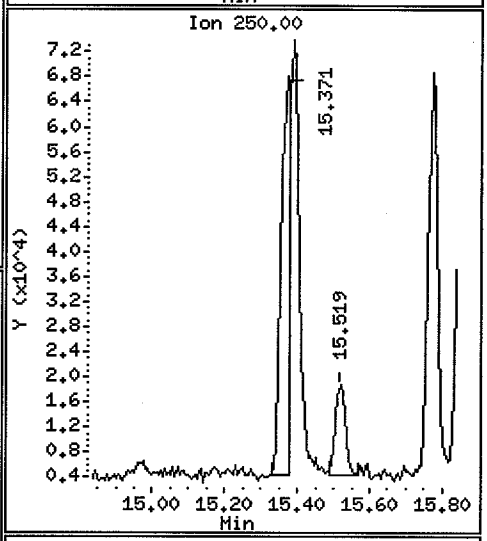
28 Benzo(b)fluoranthene

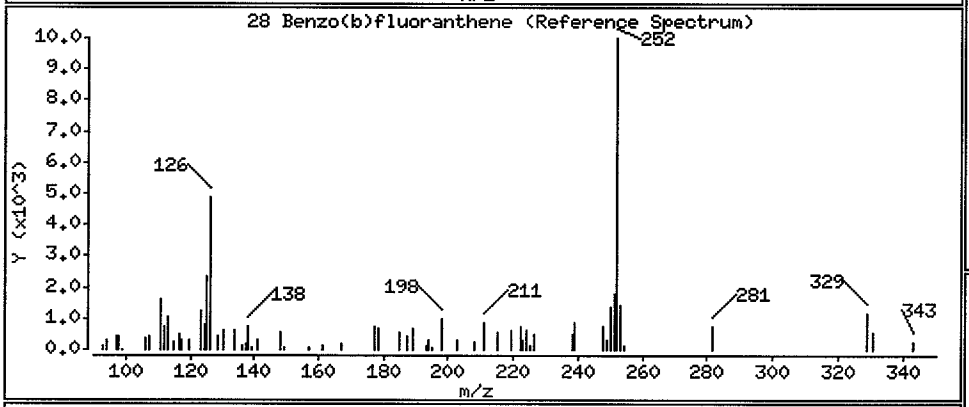
Concentration: 312.4 ug/kg

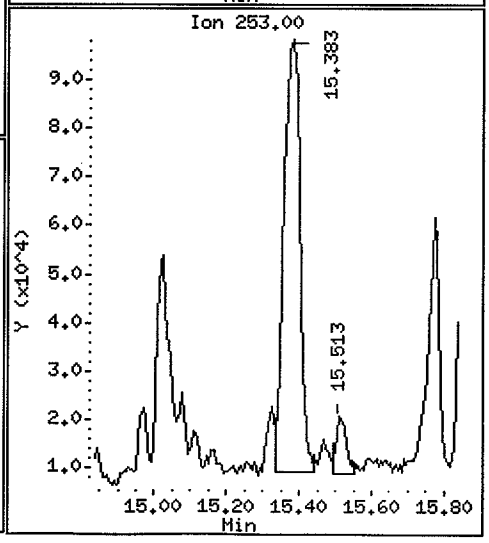


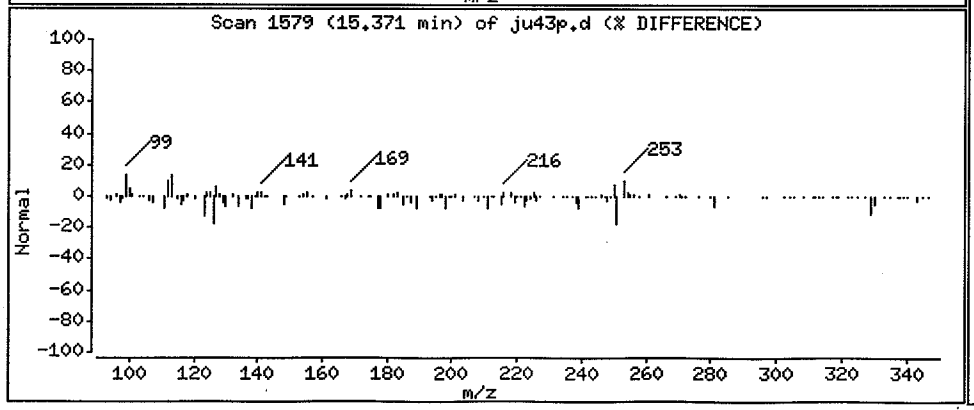












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

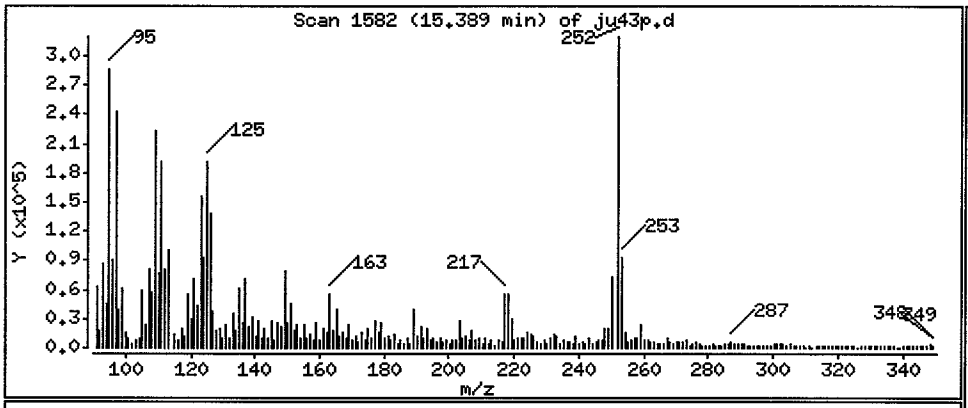
Operator: VTS

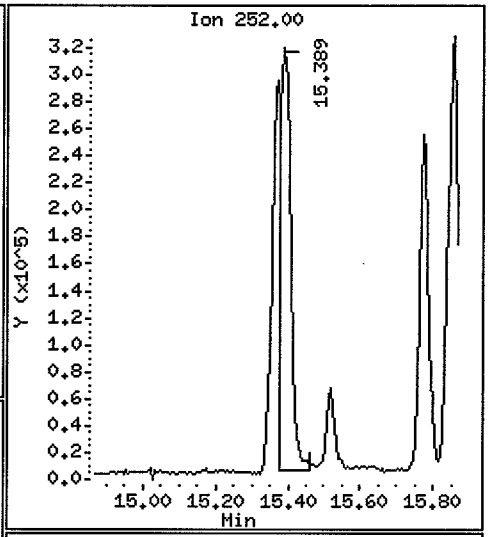
Column phase: ZB-5

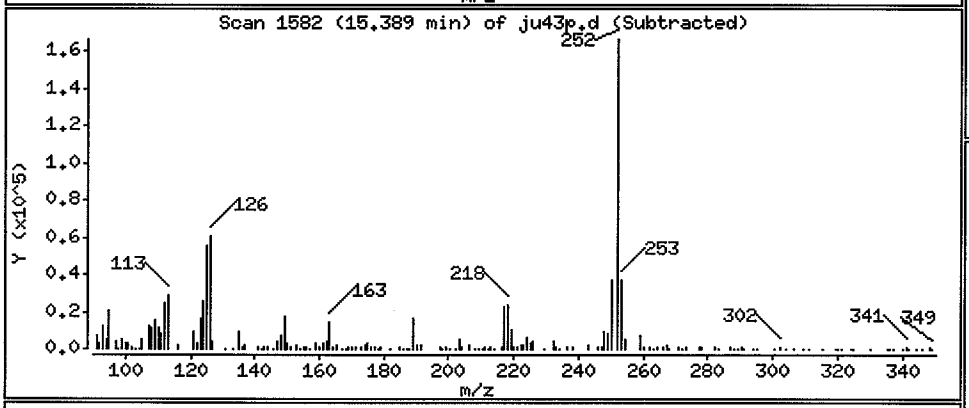
Column diameter: 0.25

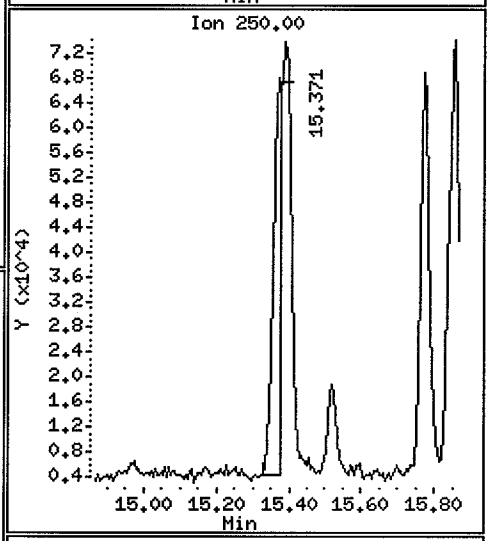
29 Benzo(k)fluoranthene

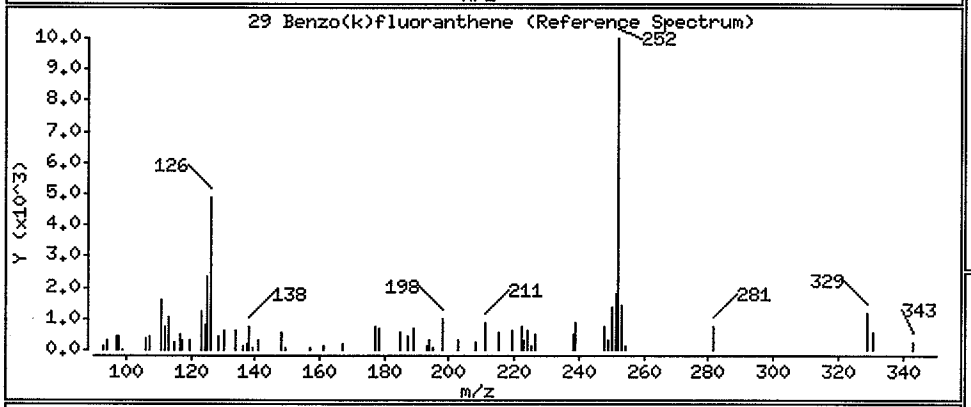
Concentration: 380.9 ug/kg

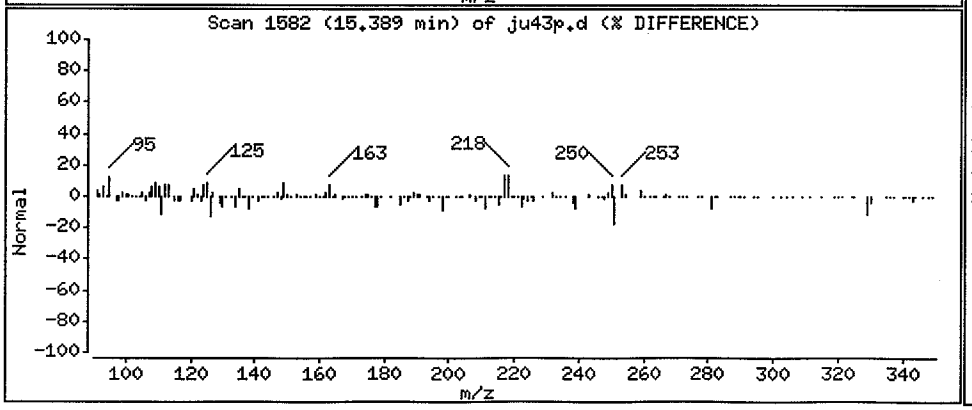


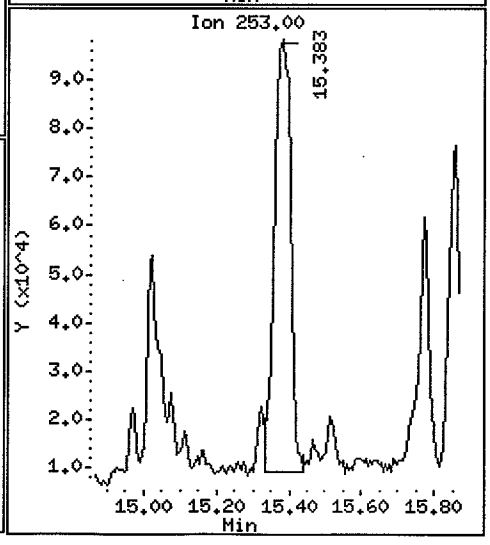












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

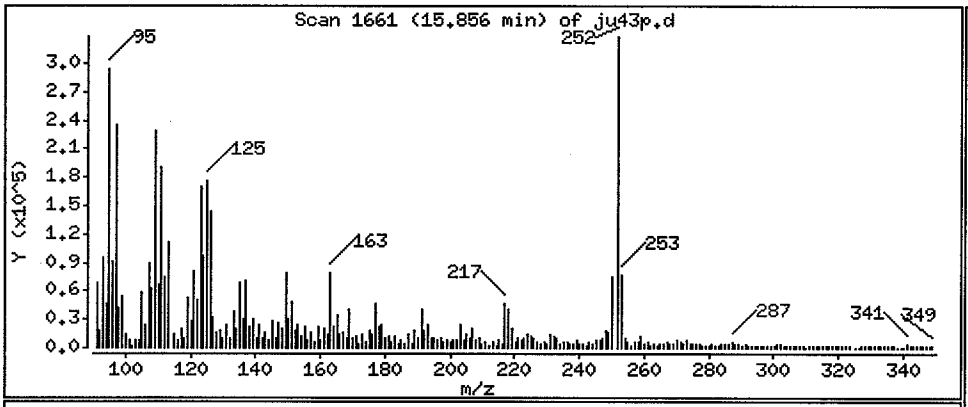
Operator: VTS

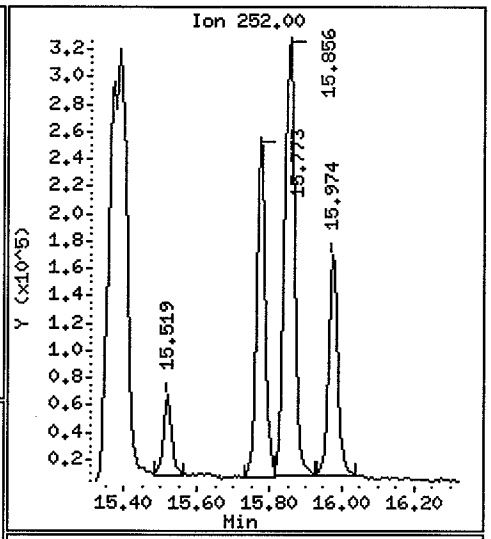
Column phase: ZB-5

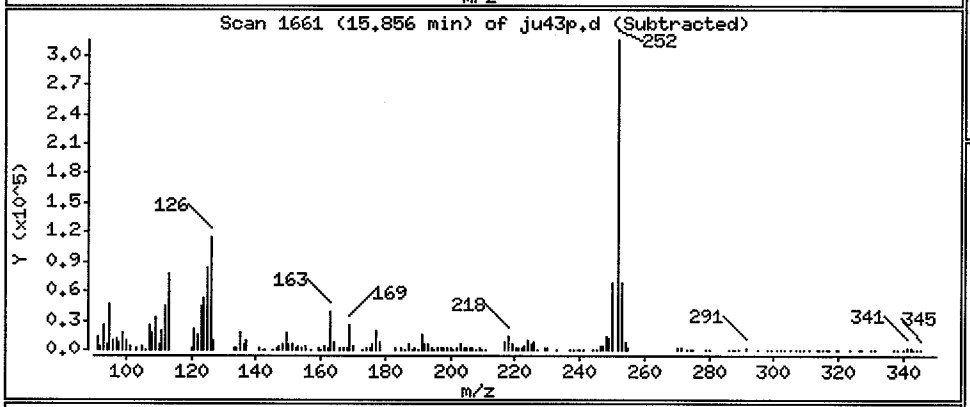
Column diameter: 0.25

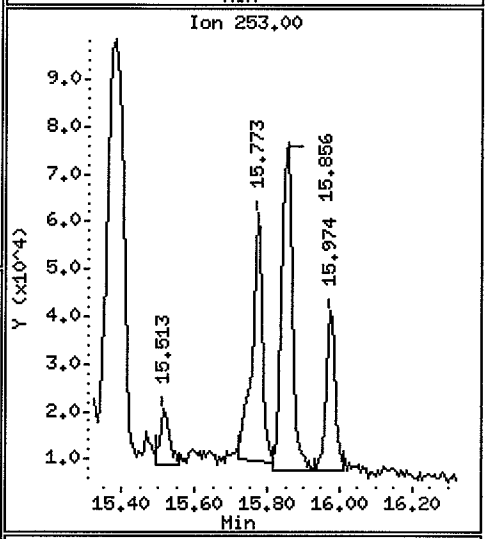
30 Benzo(a)pyrene

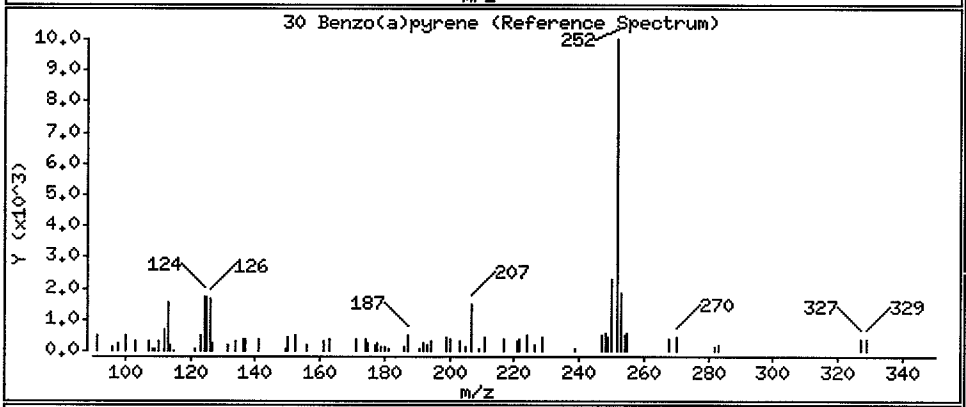
Concentration: 440.8 ug/kg

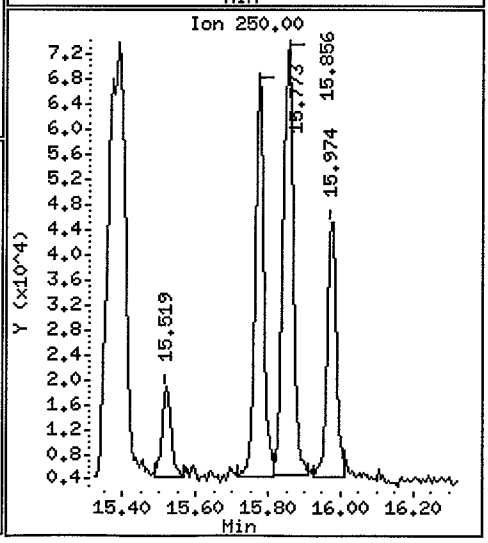


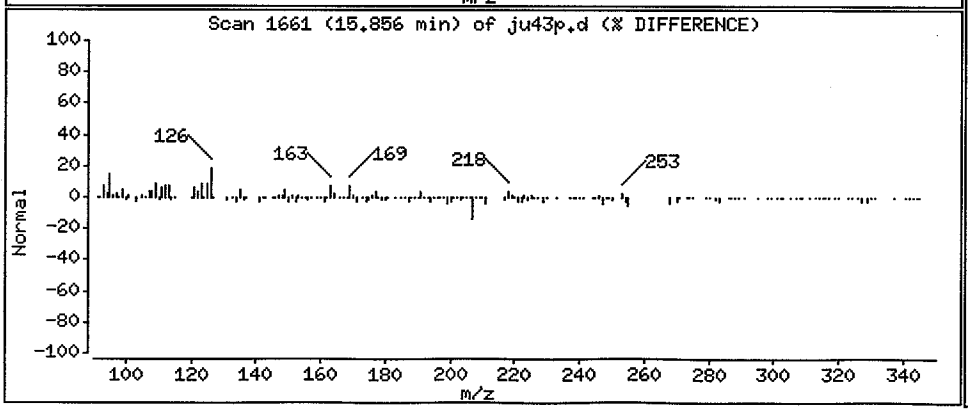












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

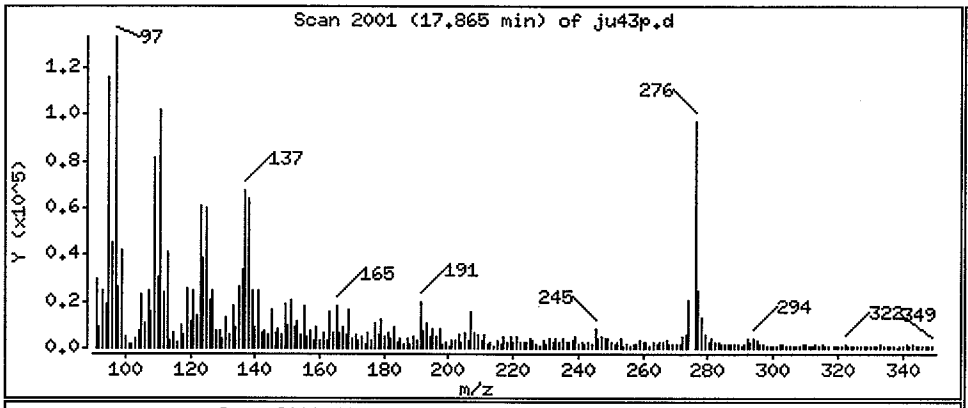
Operator: VTS

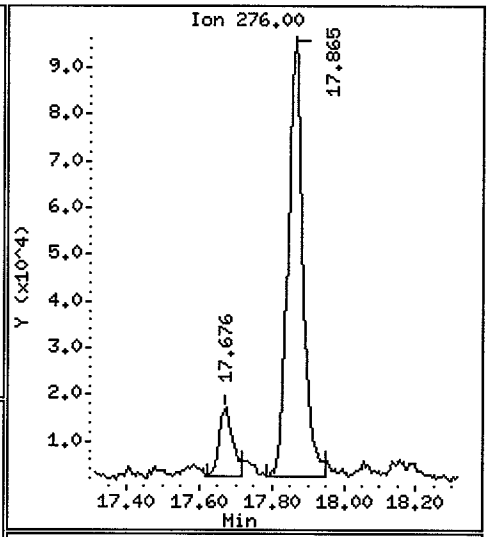
Column phase: ZB-5

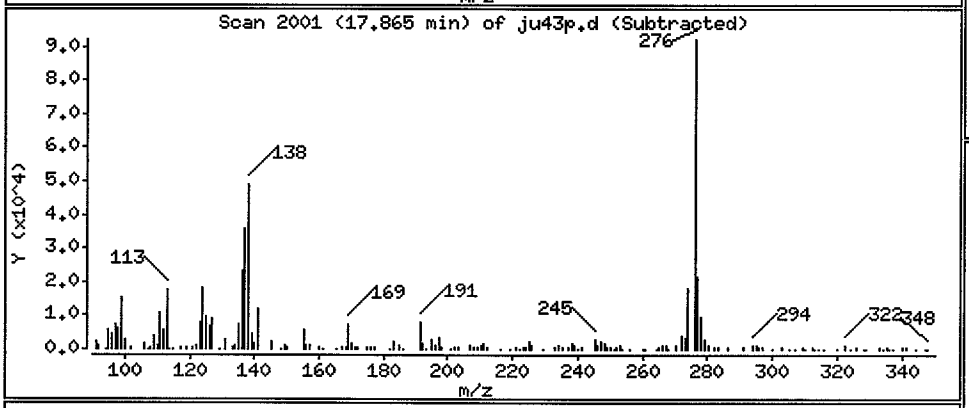
Column diameter: 0.25

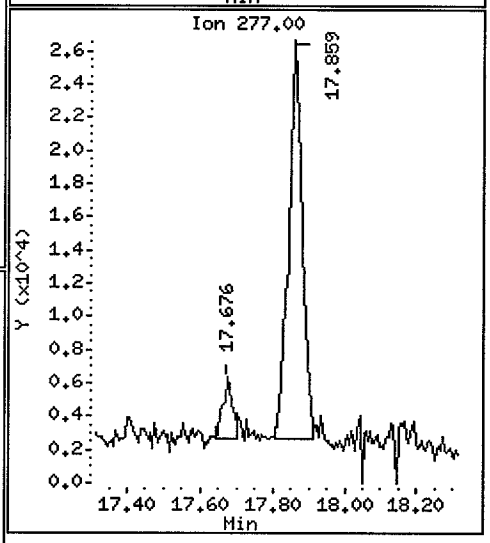
33 Indeno(1,2,3-cd)pyrene

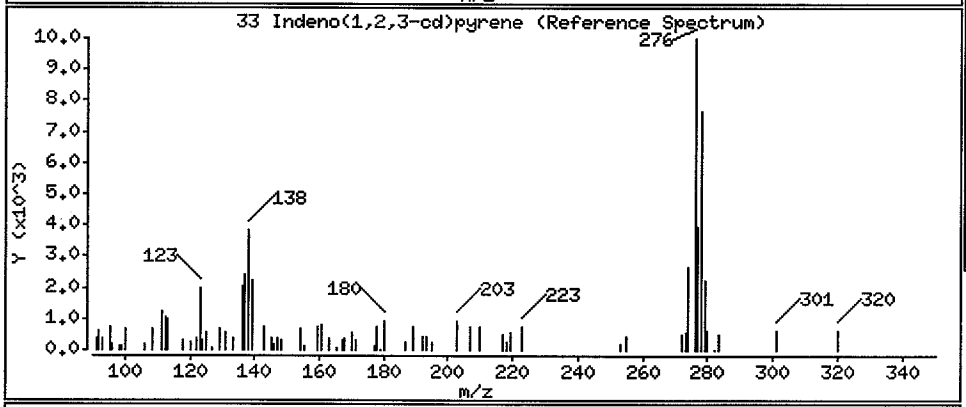
Concentration: 182.2 ug/kg

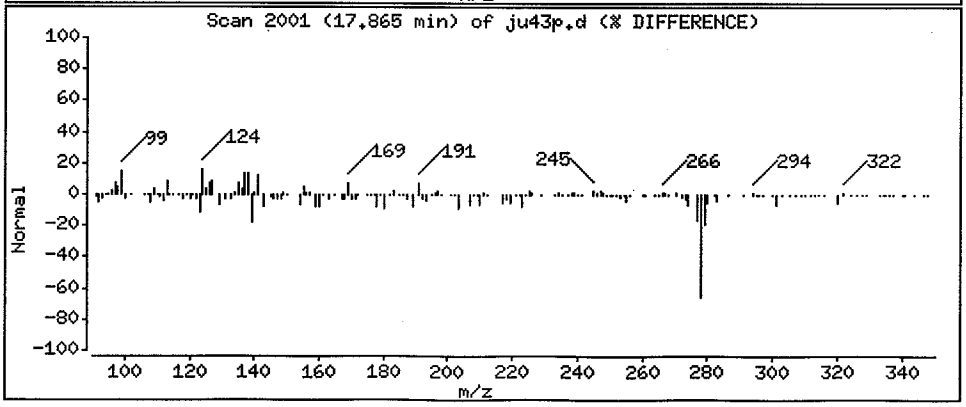












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

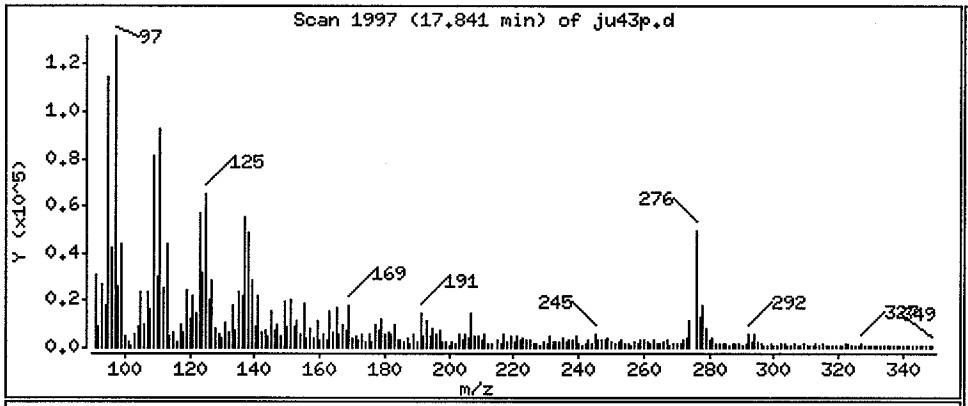
Operator: VTS

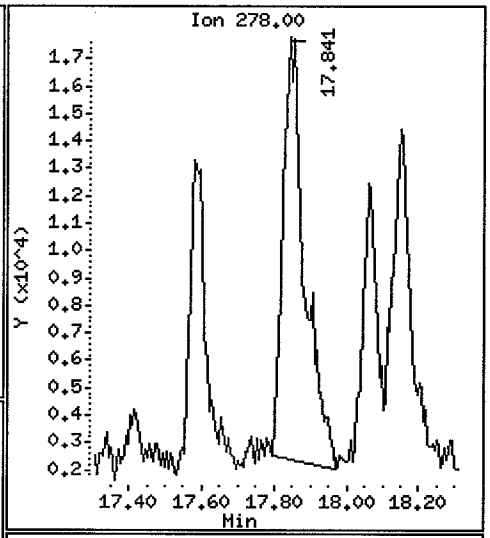
Column phase: ZB-5

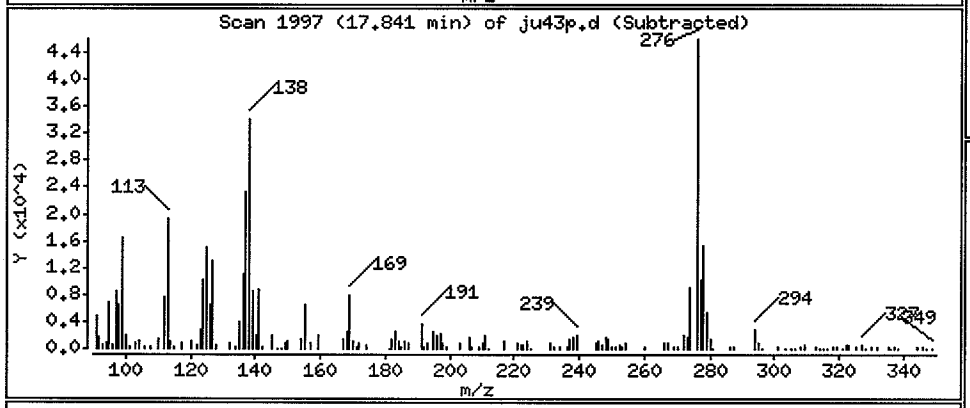
Column diameter: 0.25

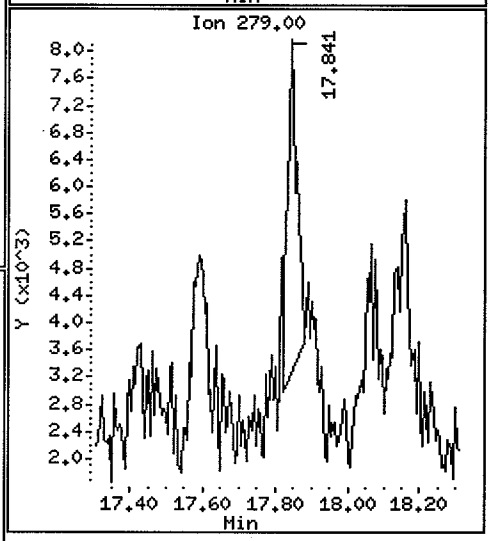
34 Dibenz(a,h)anthracene

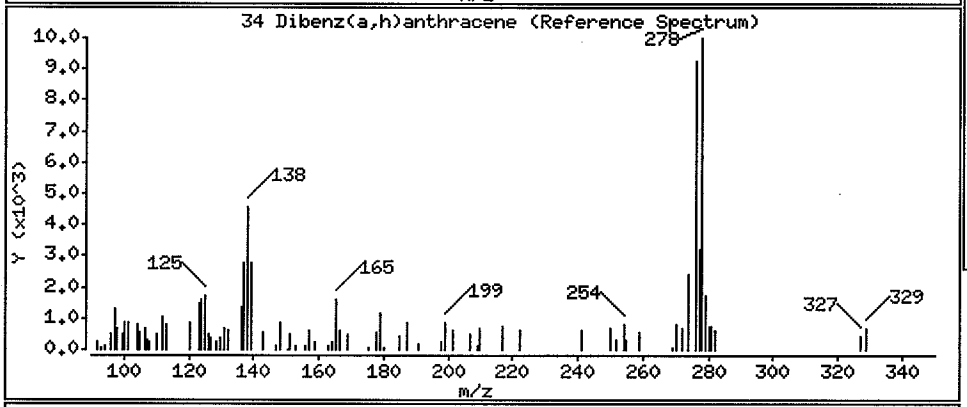
Concentration: 52.99 ug/kg

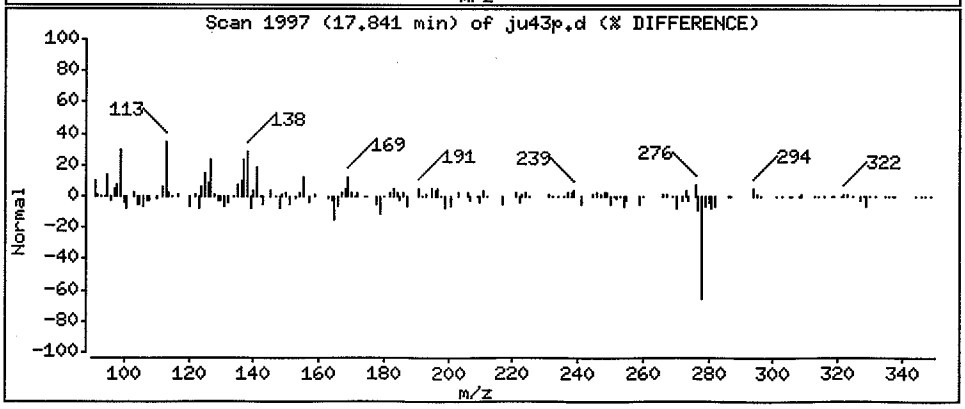












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

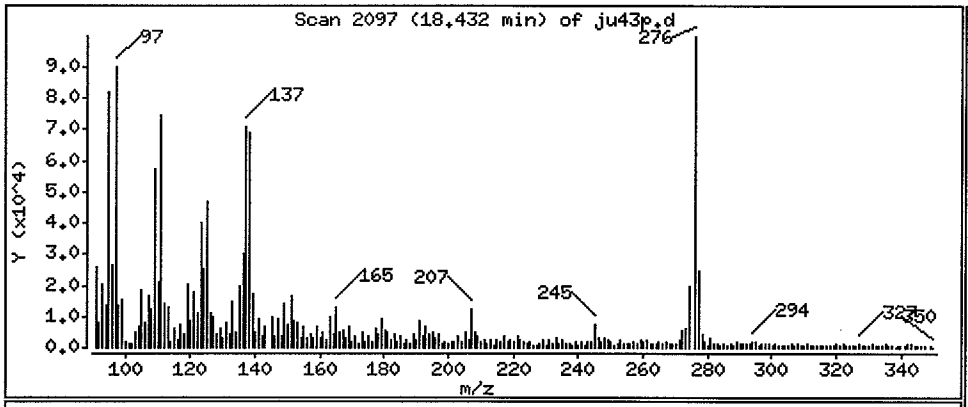
Operator: VTS

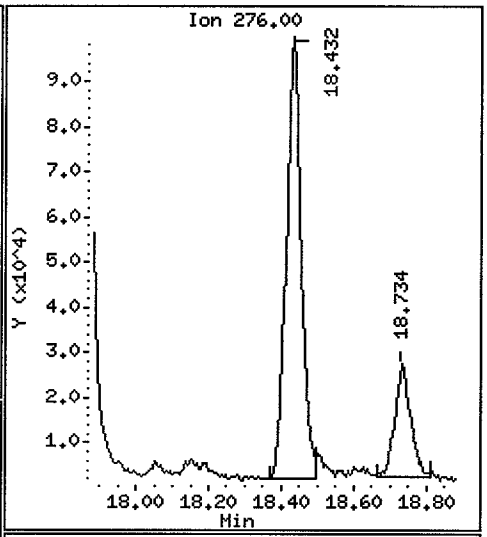
Column phase: ZB-5

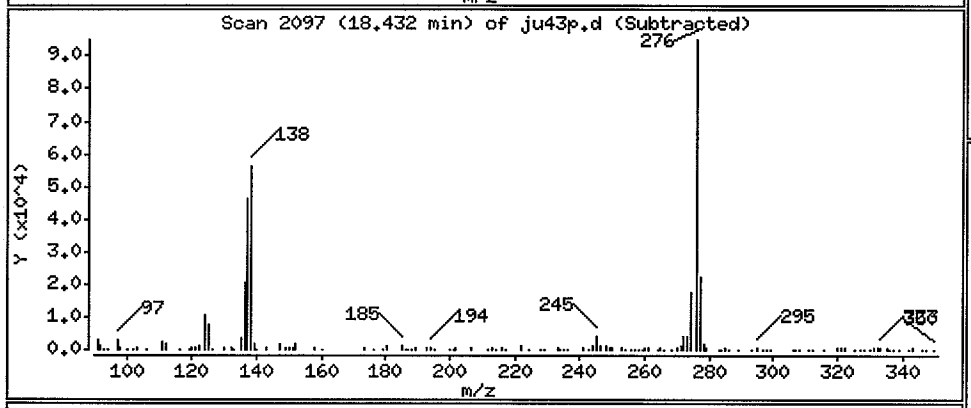
Column diameter: 0.25

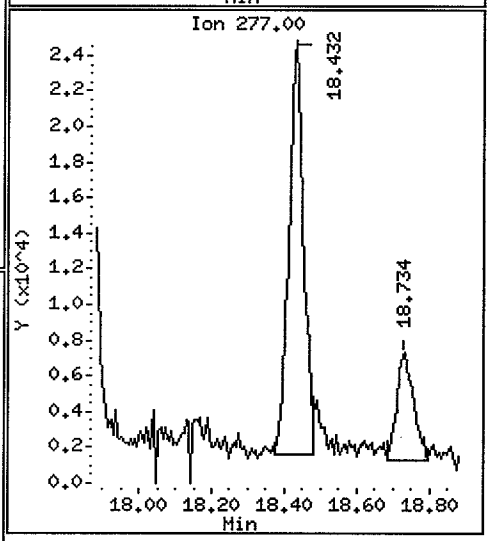
35 Benzo(g,h,i)perylene

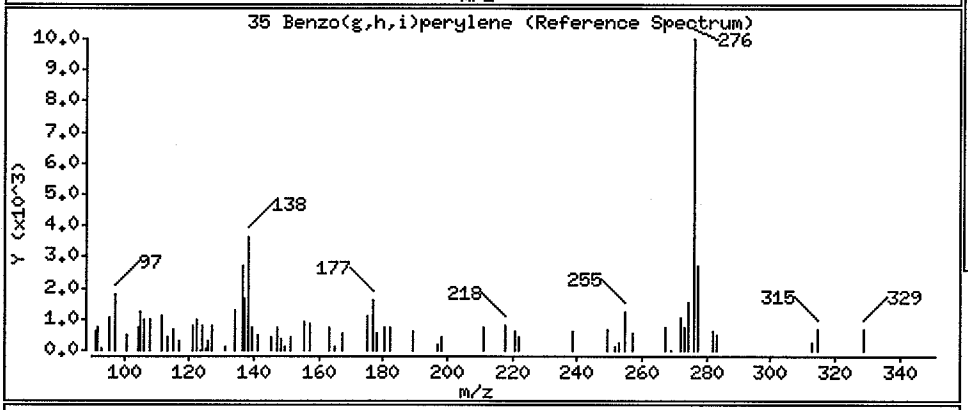
Concentration: 213.6 ug/kg

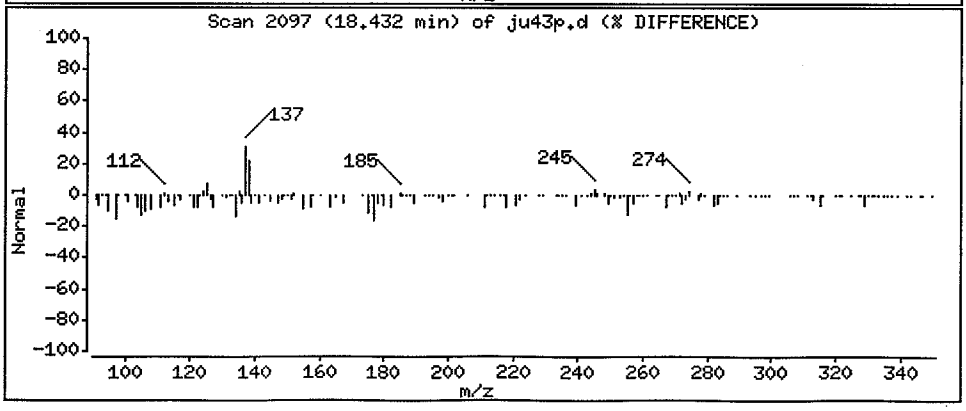












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

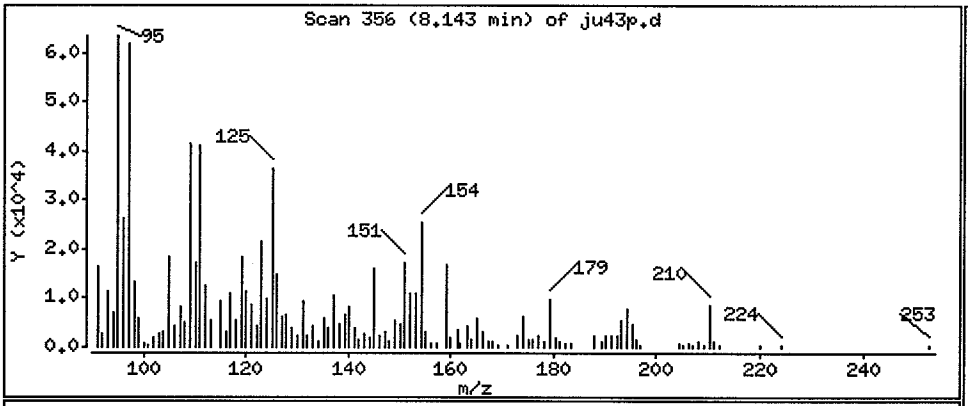
Operator: VTS

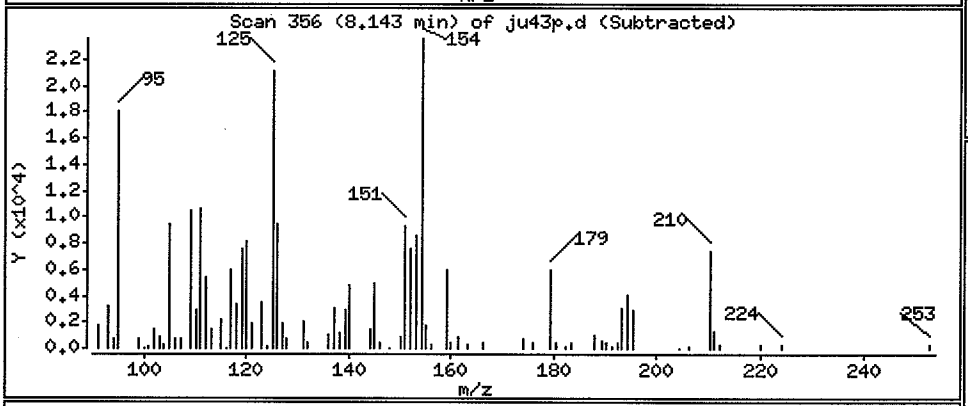
Column phase: ZB-5

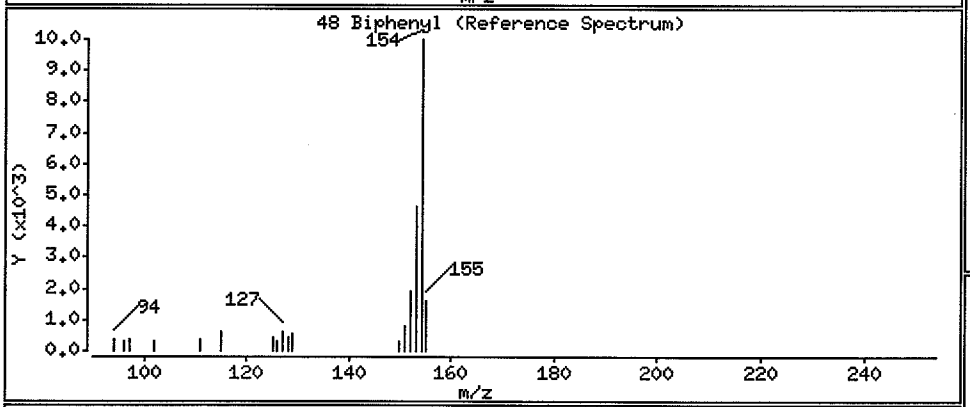
Column diameter: 0.25

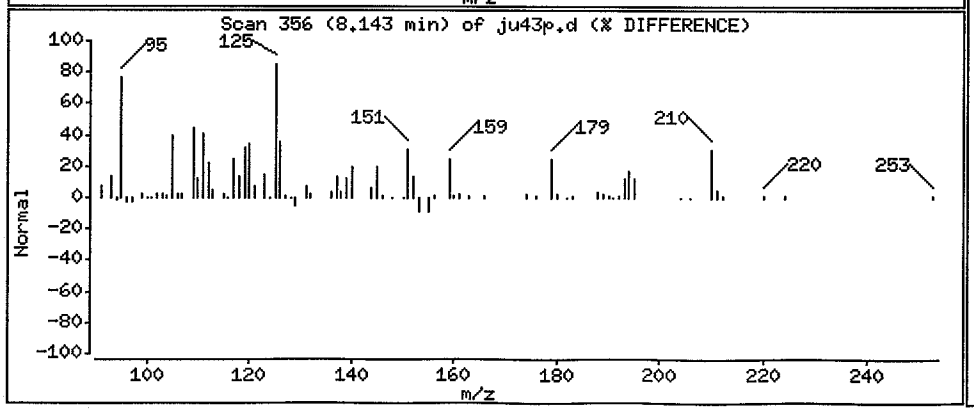
48 Biphenyl

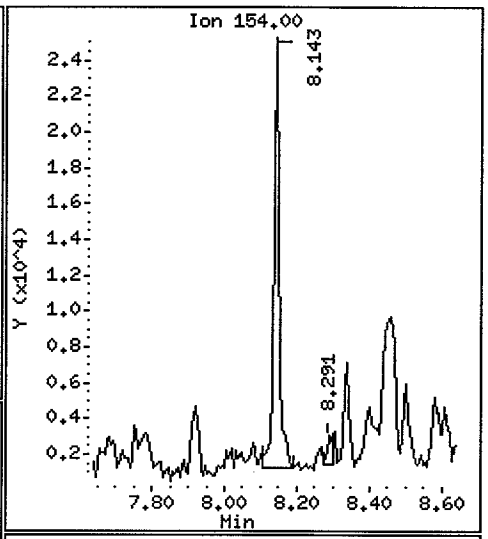
Concentration: 11.94 ug/kg

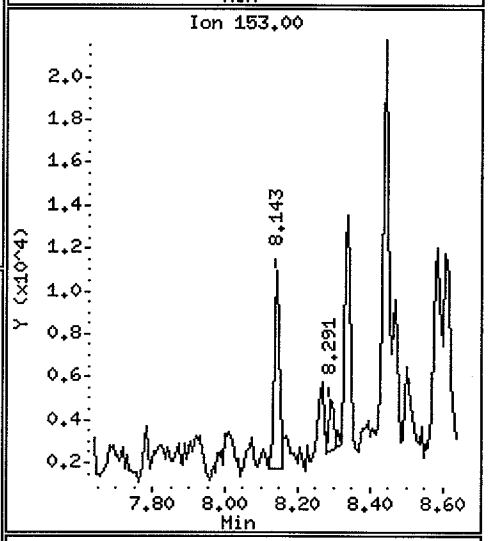


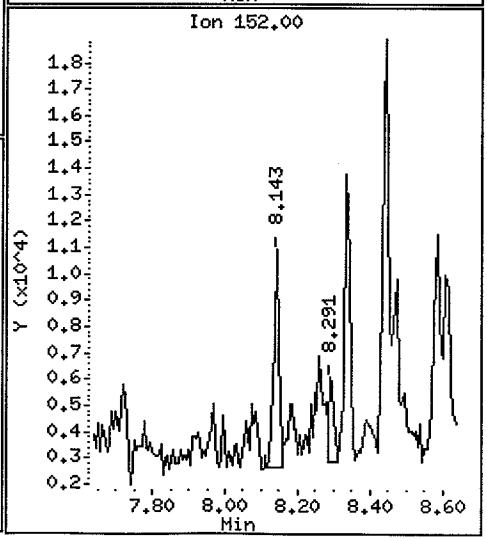












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

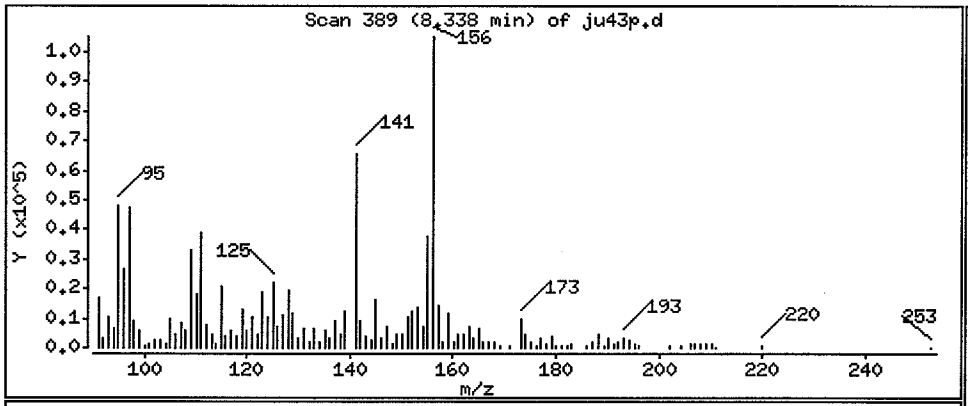
Operator: VTS

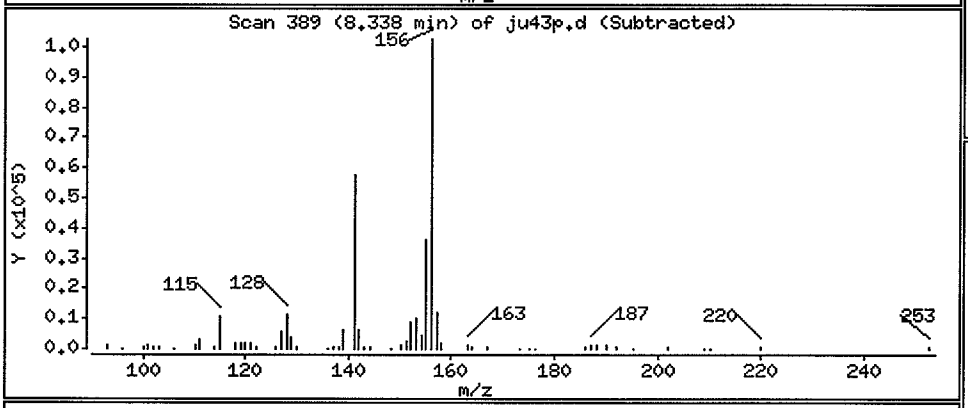
Column phase: ZB-5

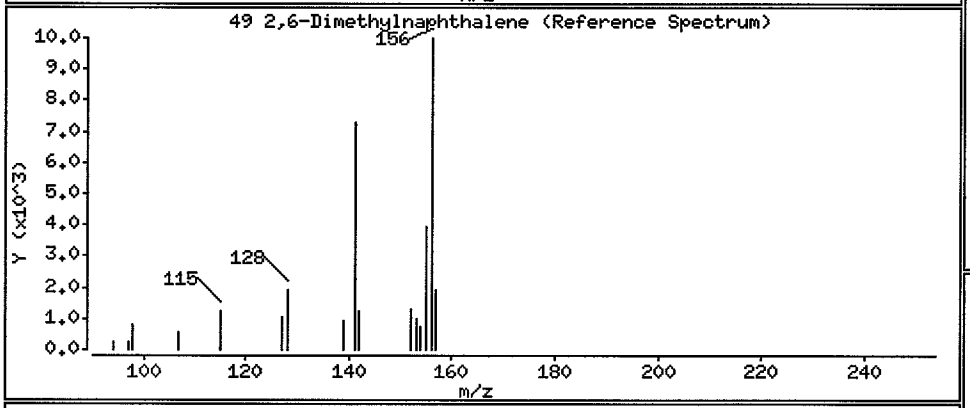
Column diameter: 0.25

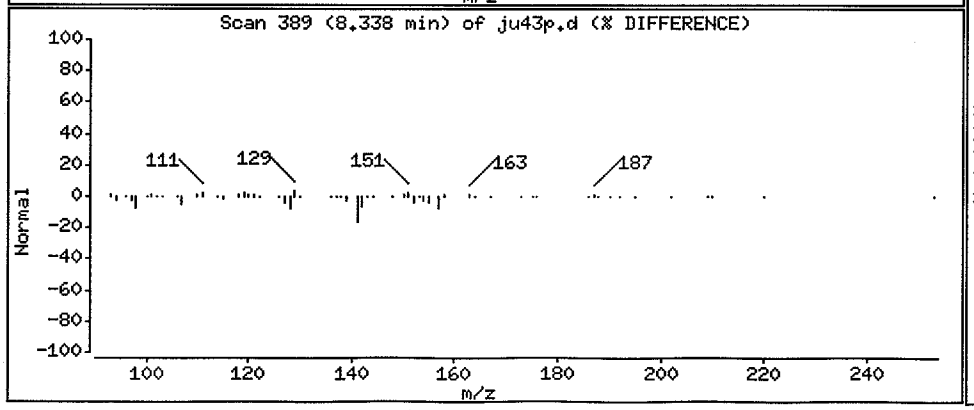
49 2,6-Dimethylnaphthalene

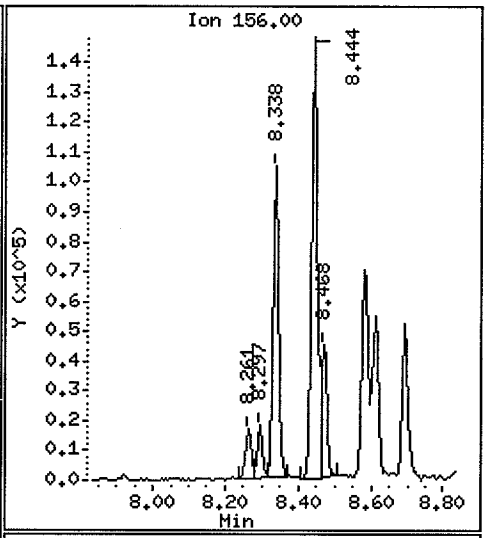
Concentration: 70.87 ug/kg

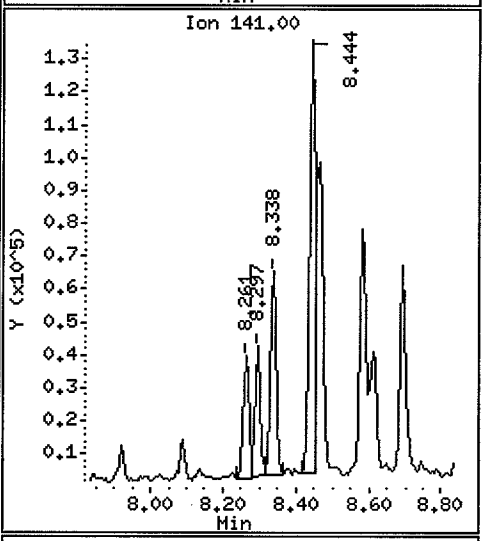


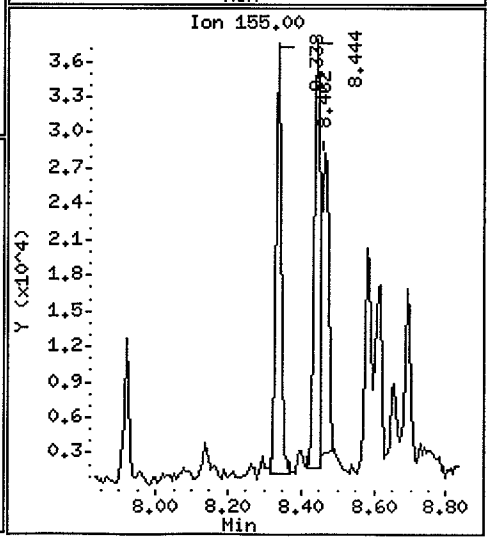












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

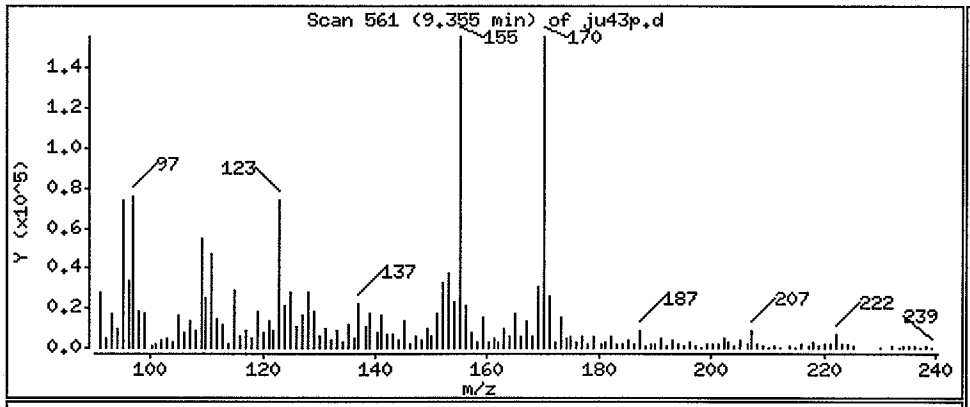
Operator: VTS

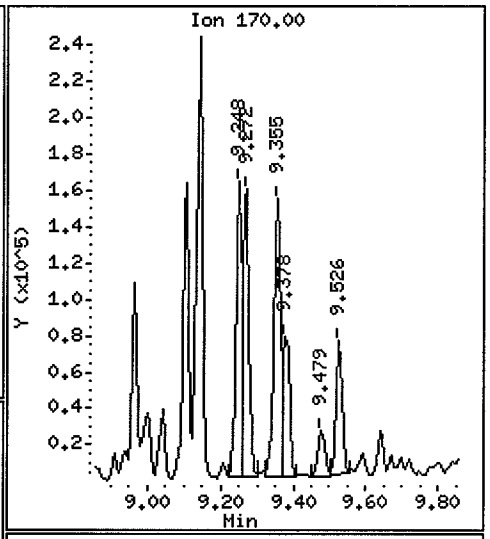
Column phase: ZB-5

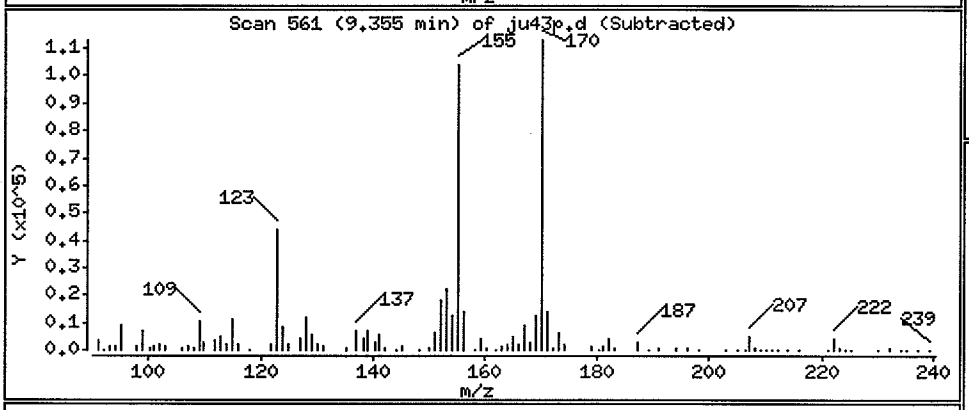
Column diameter: 0.25

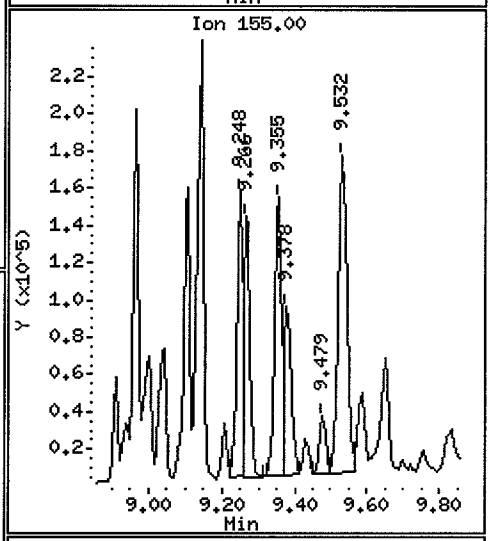
50 2,3,5-Trimethylnaphthalene

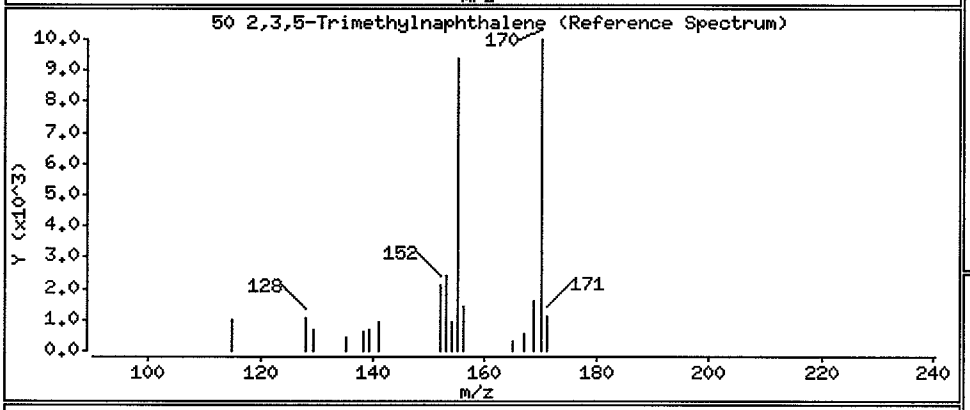
Concentration: 175.8 ug/kg

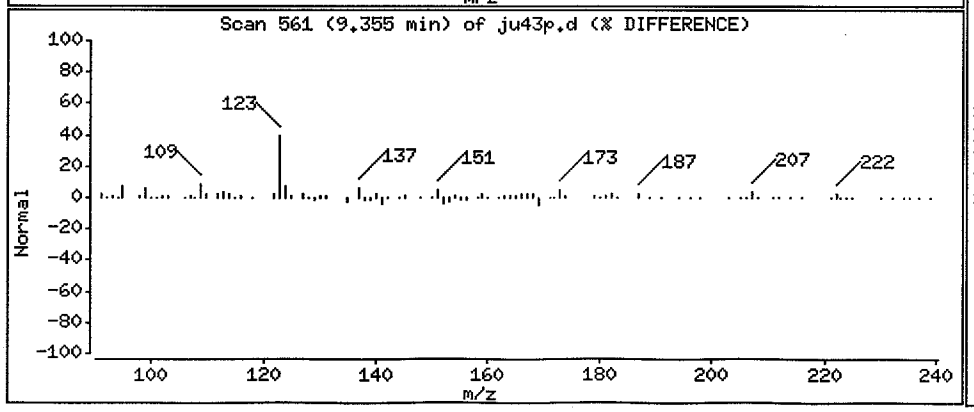


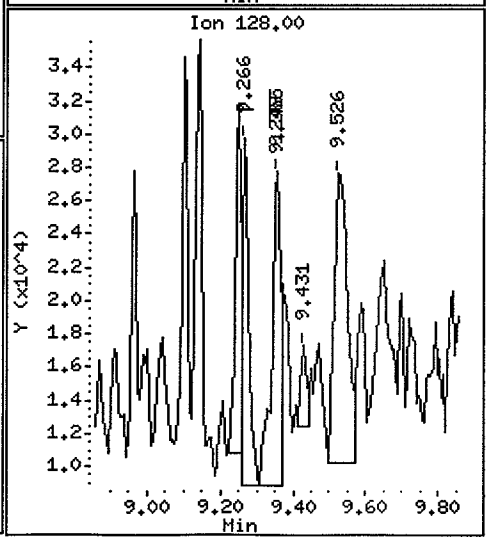












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

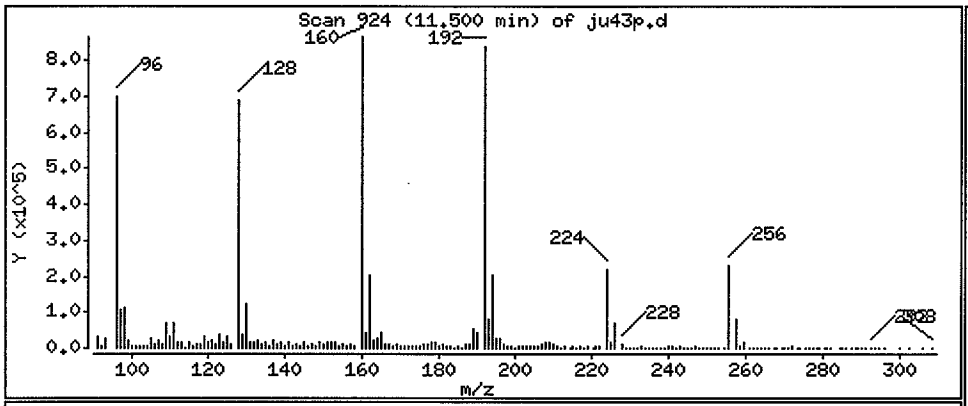
Operator: VTS

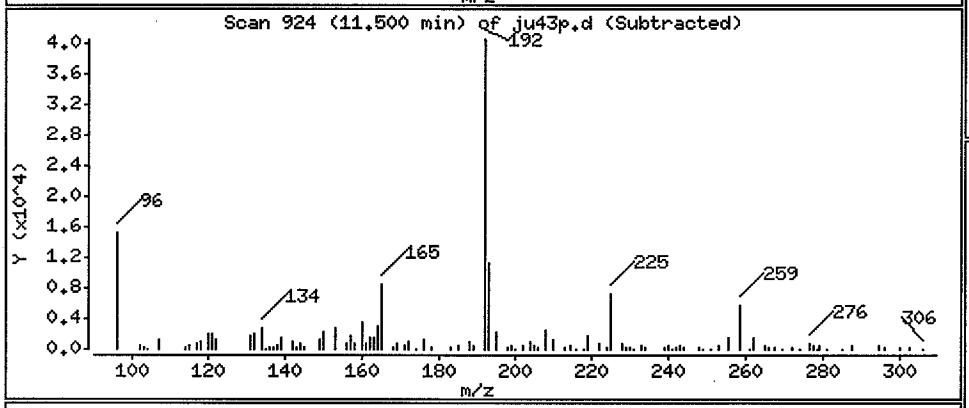
Column phase: ZB-5

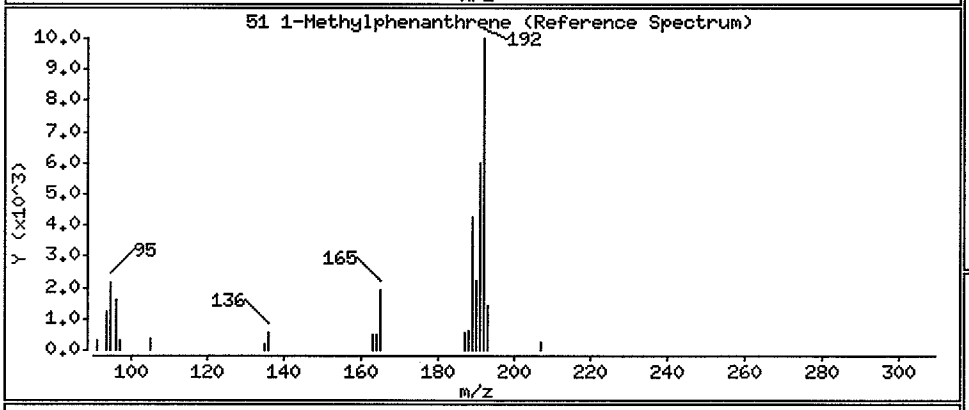
Column diameter: 0.25

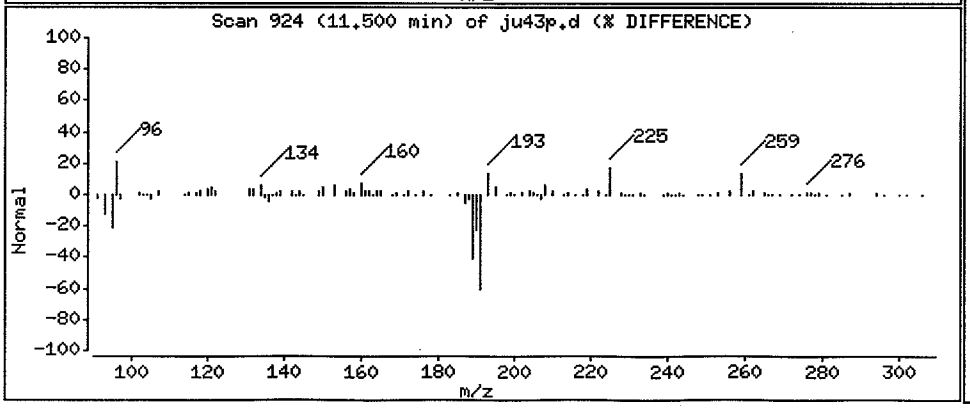
51 1-Methylphenanthrene

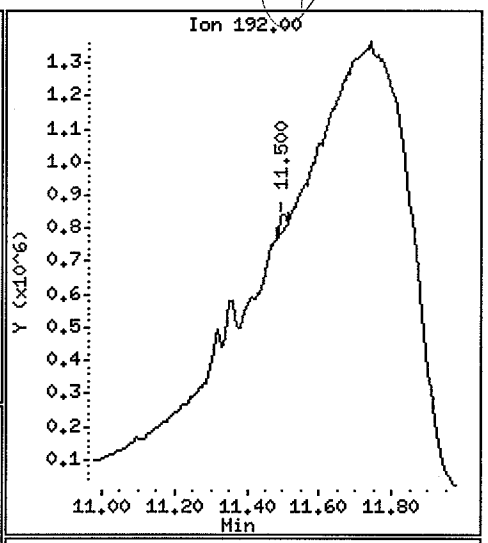
Concentration: 31.12 ug/kg

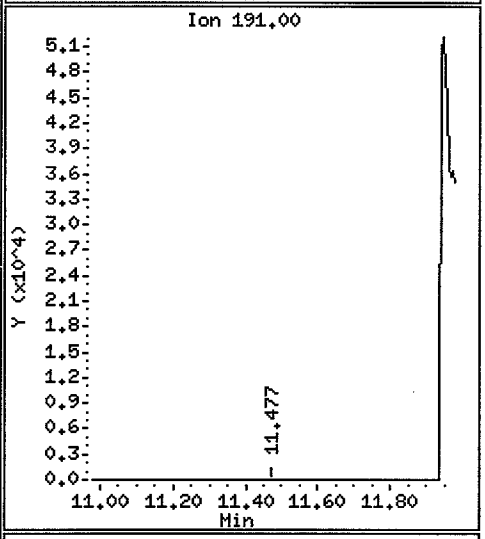


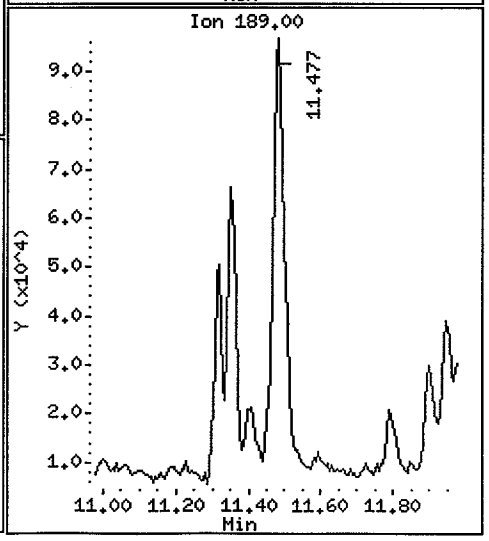












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

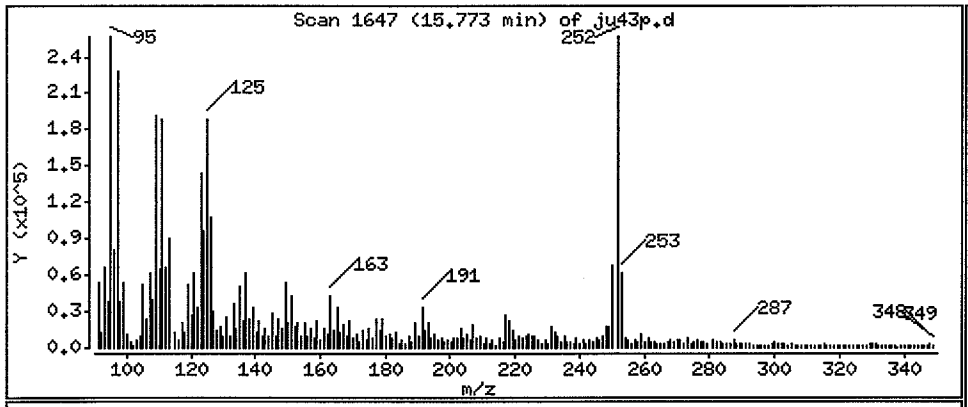
Operator: VTS

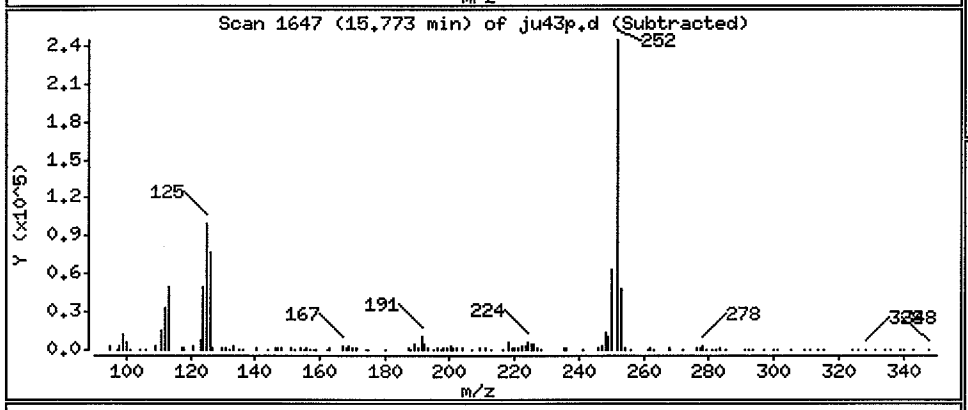
Column phase: ZB-5

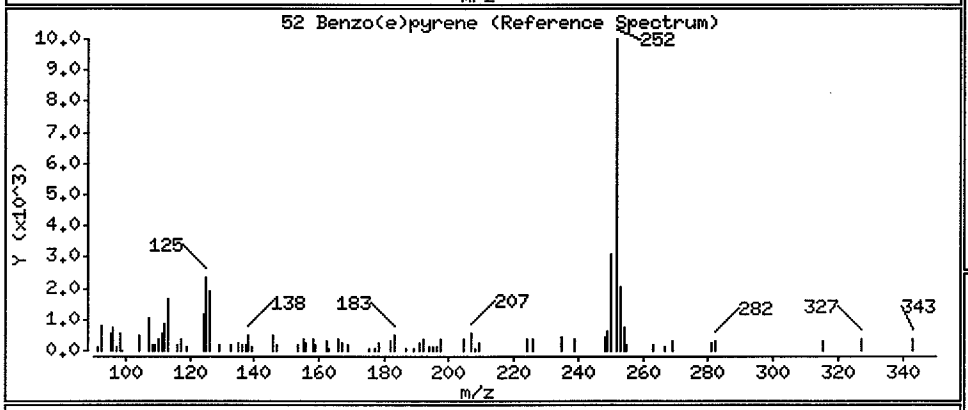
Column diameter: 0.25

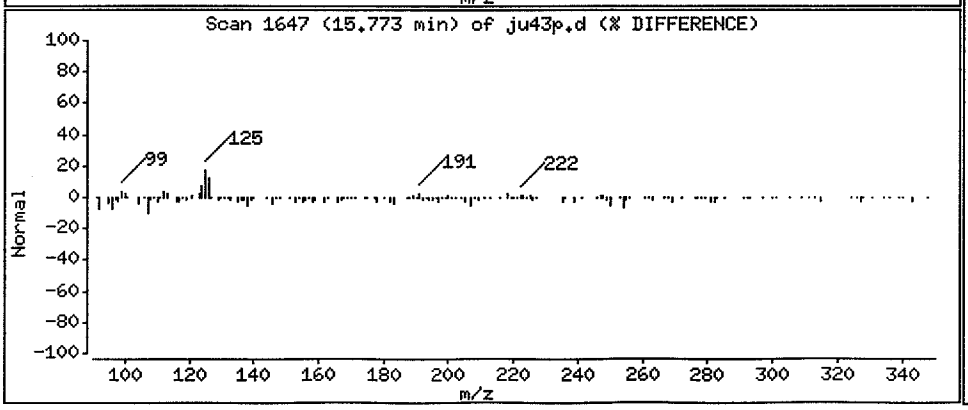
52 Benzo(e)pyrene

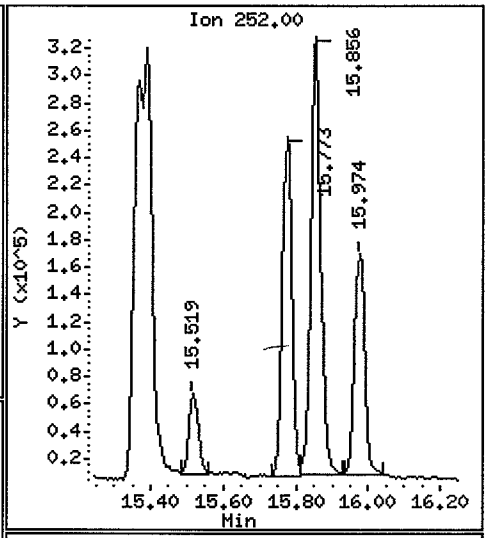
Concentration: 281.9 ug/kg

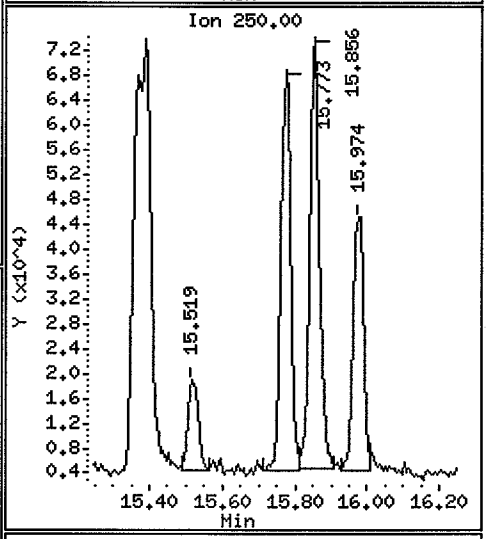


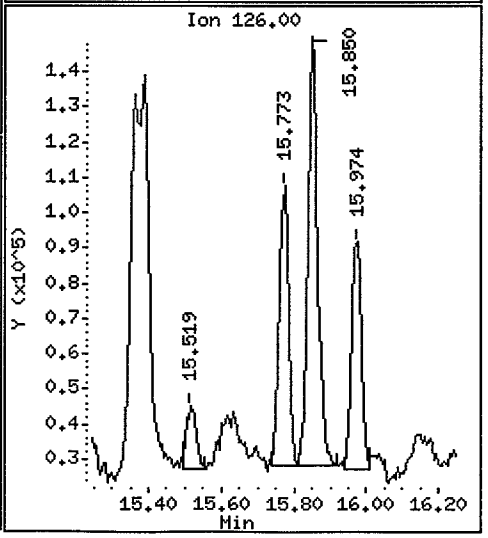












Data File: /chem3/nt1.i/20060912.b/ju43p.d

Date : 12-SEP-2006 21:17

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P

Volume Injected (uL): 1.0

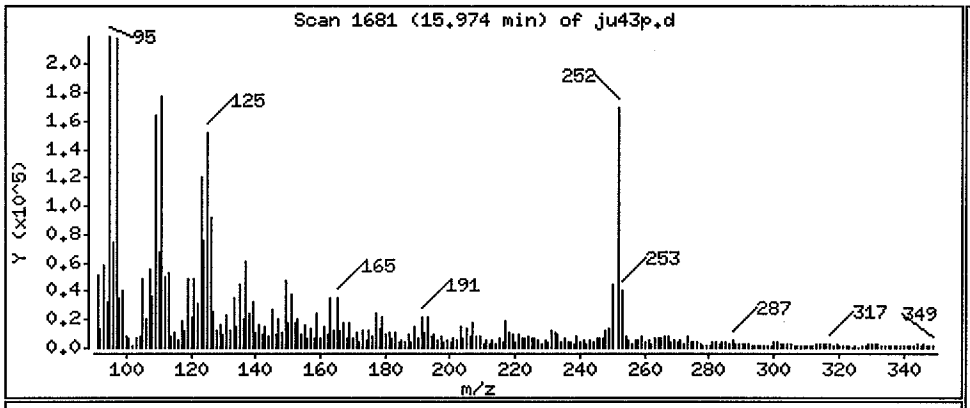
Operator: VTS

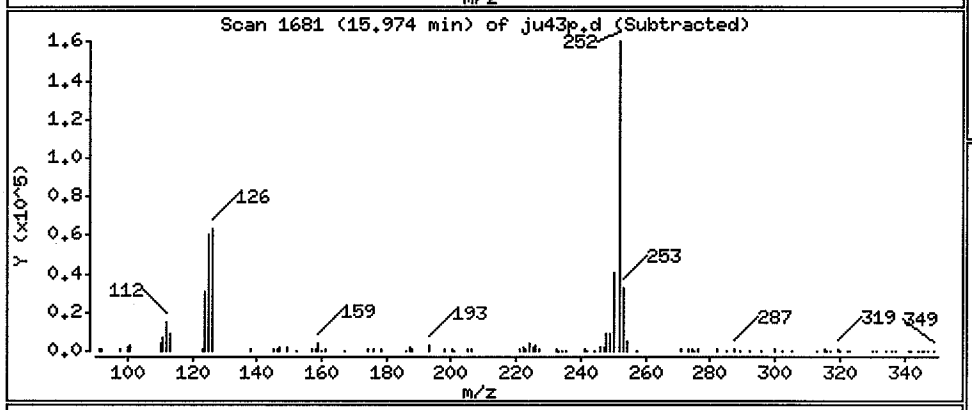
Column phase: ZB-5

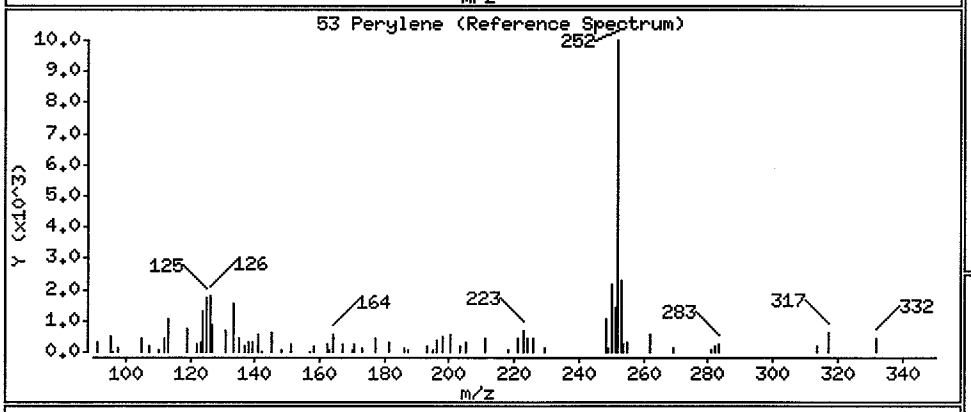
Column diameter: 0.25

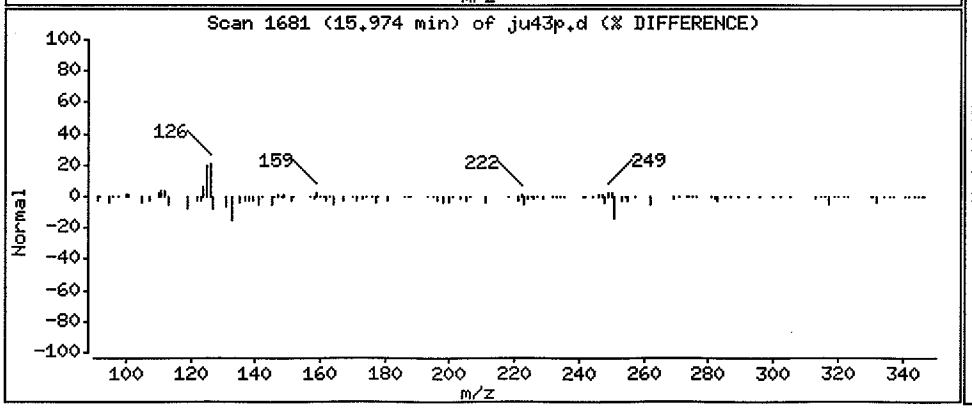
53 Perylene

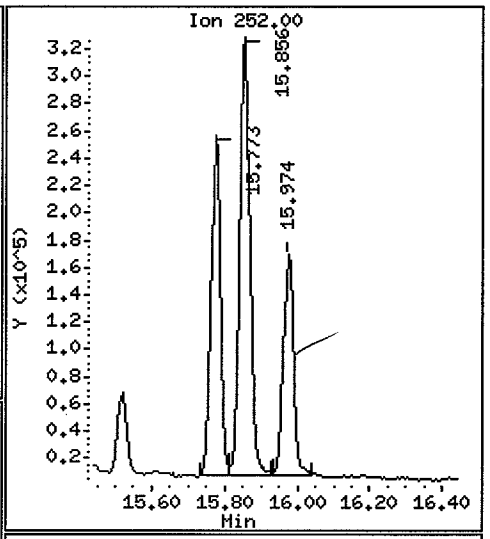
Concentration: 210.3 ug/kg

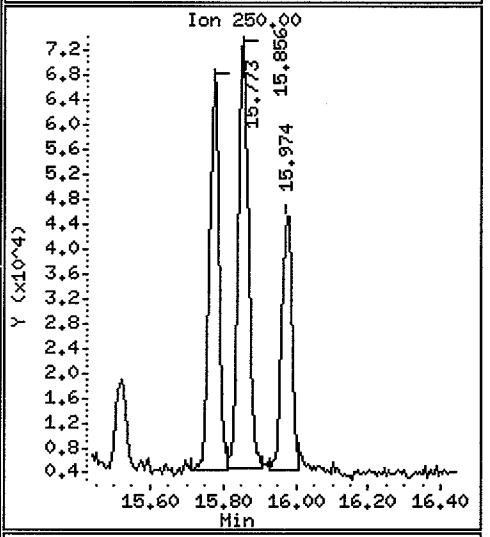


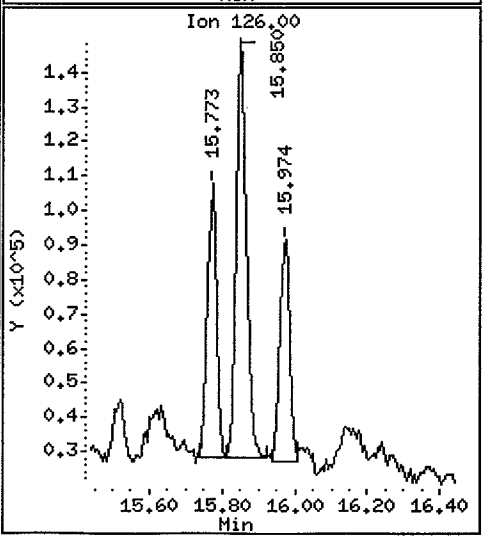












ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: T4-S3-03-E
DILUTION

Lab Sample ID: JU43P
LIMS ID: 06-15860
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/14/06 09:51
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 22.8%
pH: 6.0

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	25	89
91-57-6	**2-Methylnaphthalene**	25	47
90-12-0	**1-Methylnaphthalene**	25	30
208-96-8	**Acenaphthylene**	25	27
83-32-9	**Acenaphthene**	25	89
86-73-7	**Fluorene**	25	50
85-01-8	**Phenanthrene**	25	520
120-12-7	**Anthracene**	25	94
206-44-0	**Fluoranthene**	25	810
129-00-0	**Pyrene**	25	940
56-55-3	**Benzo(a)anthracene**	25	310
218-01-9	**Chrysene**	25	460
205-99-2	**Benzo(b)fluoranthene**	25	300
207-08-9	**Benzo(k)fluoranthene**	25	300
50-32-8	**Benzo(a)pyrene**	25	400
193-39-5	**Indeno(1,2,3-cd)pyrene**	25	240
53-70-3	**Dibenz(a,h)anthracene**	25	67
191-24-2	**Benzo(g,h,i)perylene**	25	330
198-55-0	**Perylene**	25	190
92-52-4	Biphenyl	25	< 25 U
581-42-0	**2,6-Dimethylnaphthalene**	25	67
832-69-9	1-Methylphenanthrene	69	< 69 Y
192-97-2	**Benzo(e)pyrene**	25	250
2245-38-7	**2,3,5-Trimethylnaphthalene**	25	170

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	80.0%
d14-Dibenzo(a,h)anthracen	90.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060914.b/ju43pdl.d
Lab Smp Id: JU43P Client Smp ID: T4-S3-03-E
Inj Date : 14-SEP-2006 09:51
Operator : VTS Inst ID: nt1.i
Smp Info : JU43P,5
Misc Info : 06-15860
Comment : 1ul Injection
Method : /chem3/nt1.i/20060913.b/simpna.m
Meth Date : 14-Sep-2006 09:42 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 6
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.10000	Weight of sample extracted (g)
M	22.80000	% 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	6.813	6.807	(1.000)	315193	2.00000		
	2 Naphthalene	128	6.836	6.831	(1.003)	54477	0.35975	88.93	
$	3 2-Methylnaphthalene-d10	152	7.569	7.563	(1.111)	37459	0.47928	118.5	
	4 2-Methylnaphthalene	142	7.605	7.599	(1.116)	15571	0.19347	47.83	
	5 1-Methylnaphthalene	142	7.735	7.729	(1.135)	10779	0.12342	30.51	
	7 Acenaphthylene	152	8.692	8.686	(0.980)	14528	0.10995	27.18	
*	8 Acenaphthene-d10	164	8.869	8.864	(1.000)	160833	2.00000		
	9 Acenaphthene	153	8.905	8.905	(1.004)	28928	0.36248	89.61	
	10 Dibenzofuran	168	9.100	9.094	(1.026)	9531	~~0.08403~~	20.77	NR
	11 Fluorene	166	9.519	9.514	(1.073)	17588	0.20313	50.21	
*	15 Phenanthrene-d10	188	10.678	10.672	(1.000)	212780	2.00000		
	16 Phenanthrene	178	10.707	10.702	(1.003)	240244	2.08290	514.9	
	17 Anthracene	178	10.761	10.761	(1.008)	44255	0.38043	94.04	
	19 Fluoranthene	202	12.203	12.197	(1.143)	322831	3.27905	810.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.486	12.481	(0.893)	440857	3.80936	941.7
	22 Benzo(a)anthracene	228	13.964	13.964	(0.998)	121854	1.23603	305.5
*	23 Chrysene-d12	240	13.988	13.982	(1.000)	164435	2.00000	
	24 Chrysene	228	14.017	14.017	(1.002)	173411	1.87188	462.7
	28 Benzo(b)fluoranthene	252	15.341	15.335	(0.964)	119390	1.19382	295.1
	29 Benzo(k)fluoranthene	252	15.365	15.365	(0.966)	126710	1.21316	299.9
	30 Benzo(a)pyrene	252	15.826	15.814	(0.995)	147410	1.63424	404.0
*	31 Perylene-d12	264	15.908	15.897	(1.000)	176603	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.817	17.806	(1.120)	96024	0.99164	245.1
$	32 Dibenz(a,h)anthrancene-d14	292	17.740	17.729	(1.115)	31298	0.54081	133.7
	34 Dibenz(a,h)anthracene	278	17.805	17.794	(1.119)	20989	0.26744	66.11
	35 Benzo(g,h,i)perylene	276	18.385	18.367	(1.156)	113521	1.32652	327.9
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.337	8.332	(0.940)	20516	0.27232	67.32
	50 2,3,5-Trimethylnaphthalene	170	9.348	9.354	(1.054)	41898	0.70400	174.0
	51 1-Methylphenanthrene	192	11.482	11.476	(0.821)	21480	0.27677	68.42 (M)
	52 Benzo(e)pyrene	252	15.743	15.737	(0.990)	102325	1.01828	251.7
	53 Perylene	252	15.944	15.938	(1.002)	70013	0.74668	184.6

QC Flag Legend

M - Compound response manually integrated.

VTS

9.14.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43pdl.d
Lab Smp Id: JU43P
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15860

Calibration Date: 13-SEP-2006
Calibration Time: 10:18
Client Smp ID: T4-S3-03-E
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	337011	168506	674022	315193	-6.47
8 Acenaphthene-d10	171704	85852	343408	160833	-6.33
15 Phenanthrene-d10	223924	111962	447848	212780	-4.98
23 Chrysene-d12	172575	86288	345150	164435	-4.72
31 Perylene-d12	173129	86564	346258	176603	2.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.86	8.36	9.36	8.87	0.06
15 Phenanthrene-d10	10.67	10.17	11.17	10.68	0.05
23 Chrysene-d12	13.98	13.48	14.48	13.99	0.04
31 Perylene-d12	15.90	15.40	16.40	15.91	0.07

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

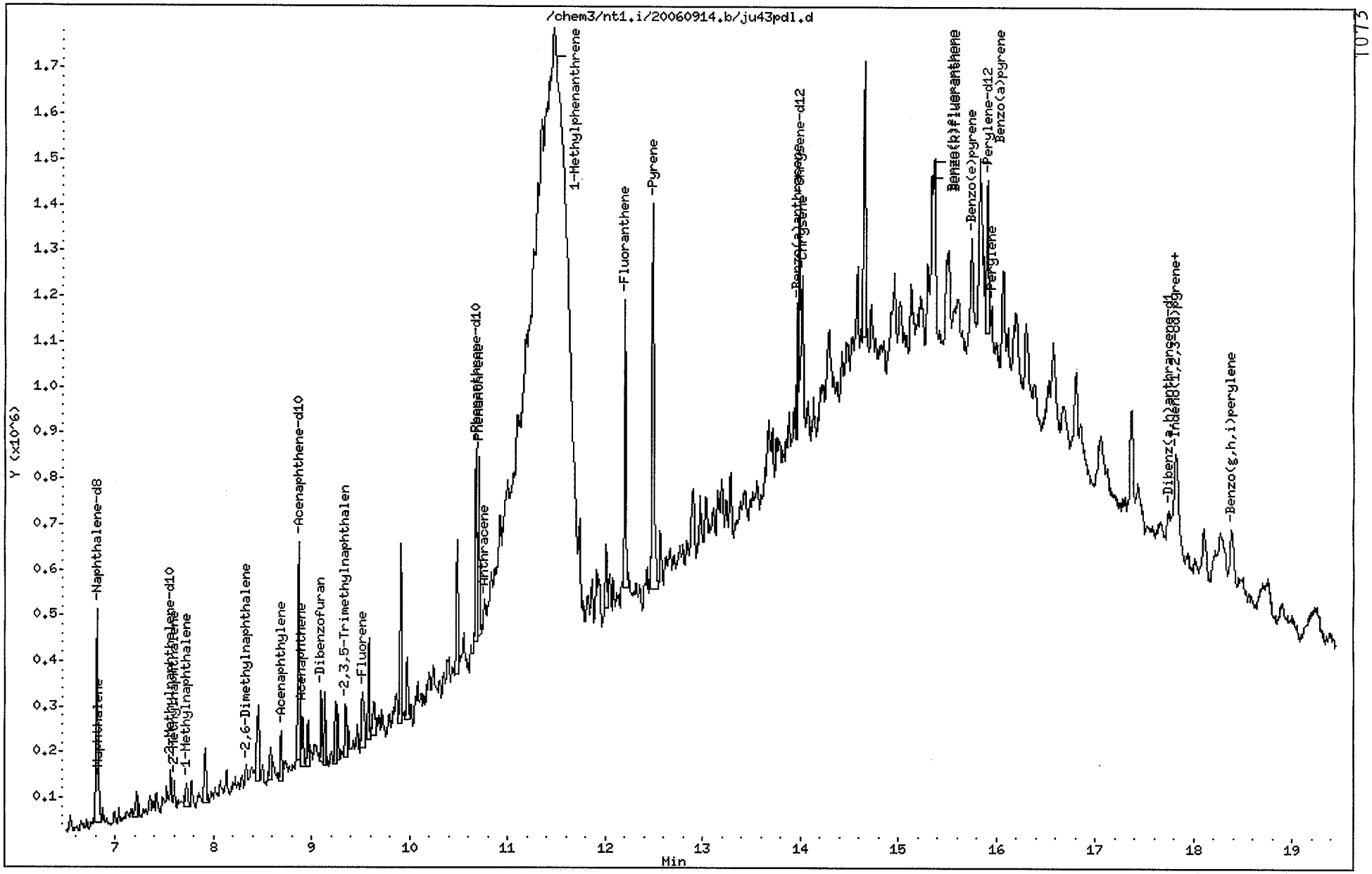
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43P
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info: 06-15860

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-03-E
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.3	118.5	79.88	32-97
$ 32 Dibenz(a,h)anthran	148.3	133.7	90.14	21-105

Data File: /chem3/nt1.i/20060914.b/ju43pdl.d
Date : 14-SEP-2006 09:51
Client ID: T4-S3-03-E
Sample Info: JU43P,5
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

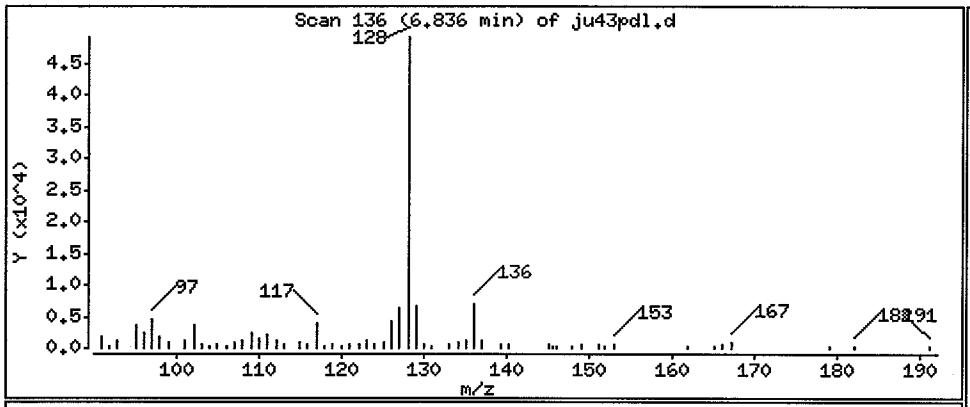
Operator: VTS

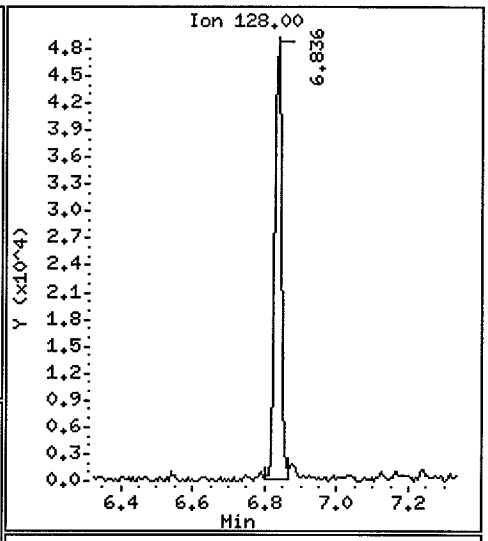
Column phase: ZB-5

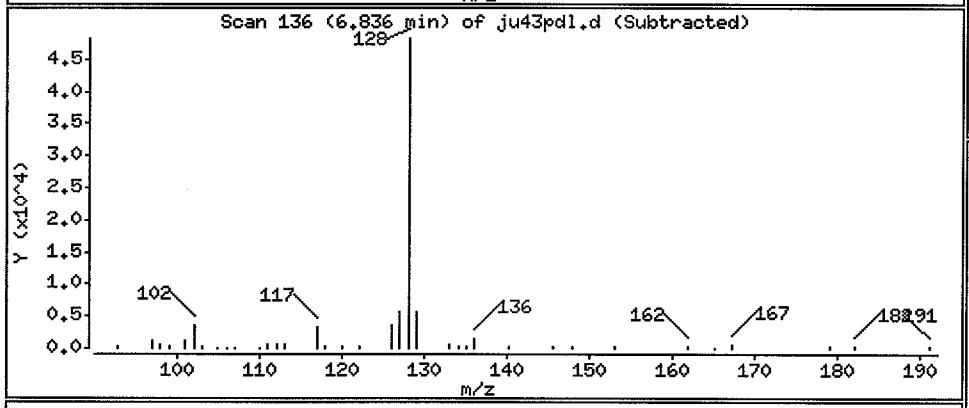
Column diameter: 0.25

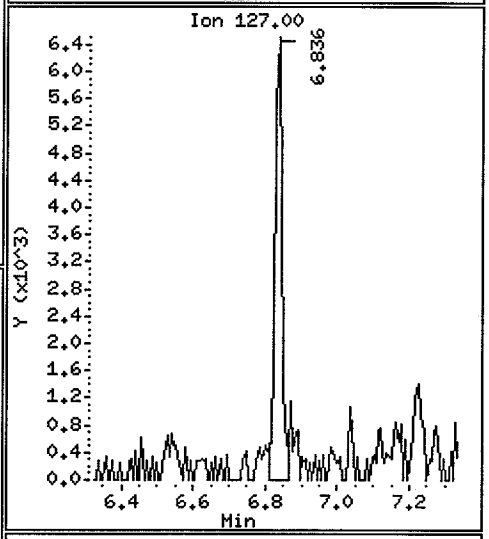
2 Naphthalene

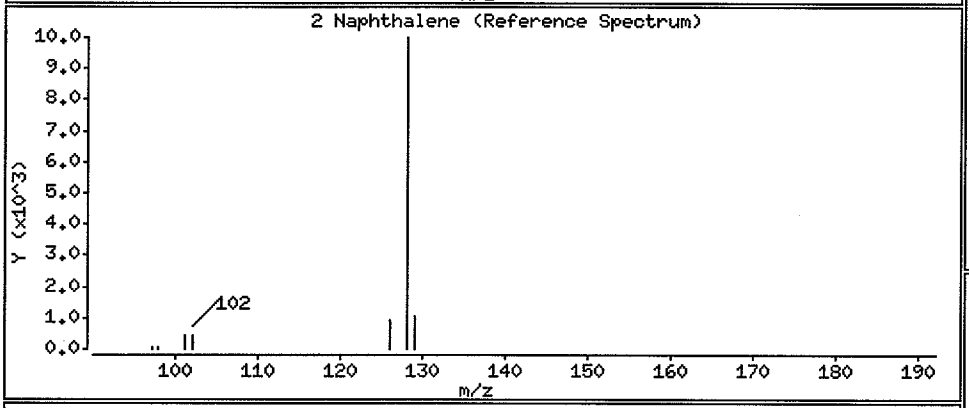
Concentration: 88.93 ug/kg

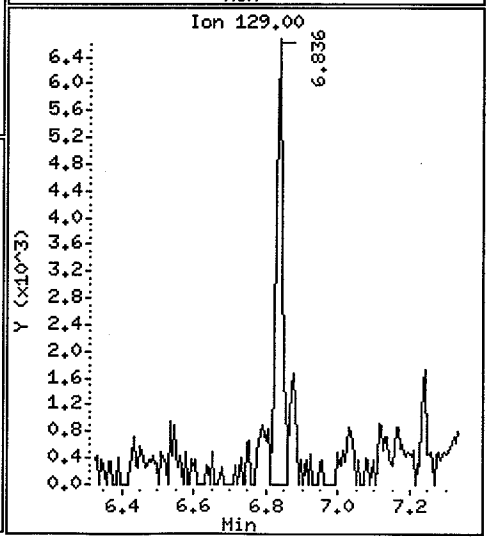


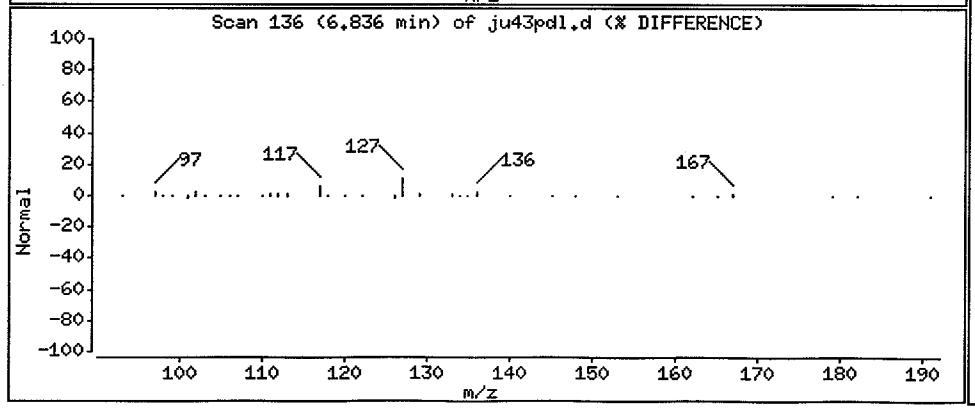












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

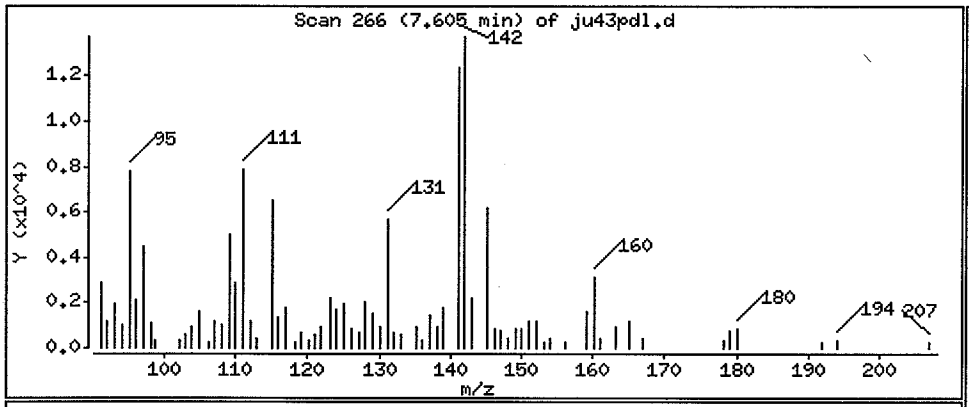
Operator: VTS

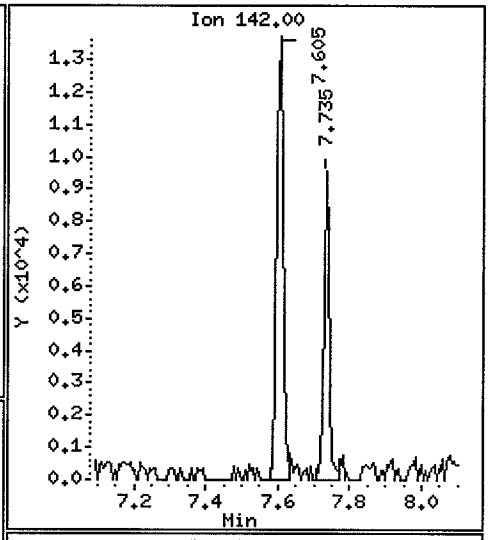
Column phase: ZB-5

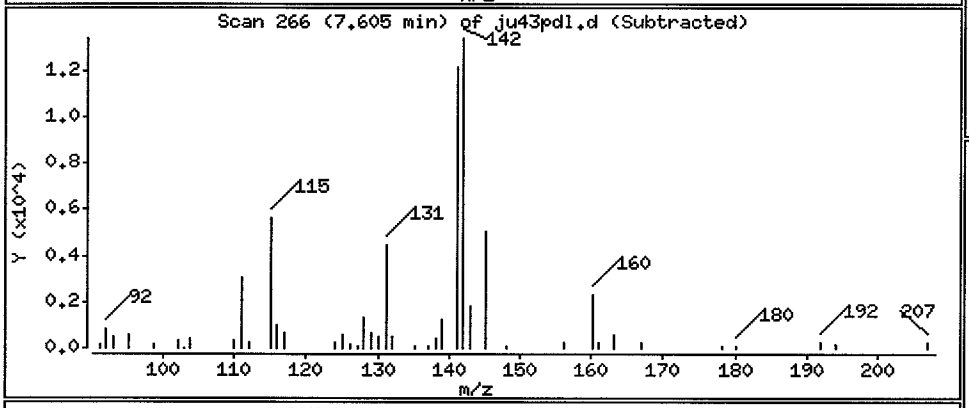
Column diameter: 0.25

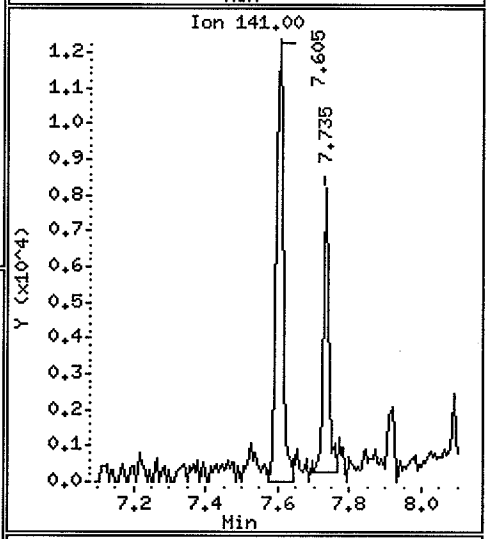
4 2-Methylnaphthalene

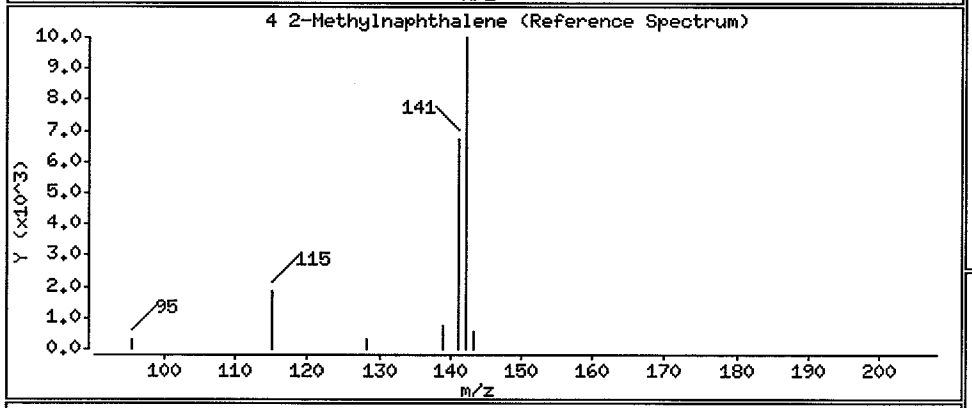
Concentration: 47.83 ug/kg

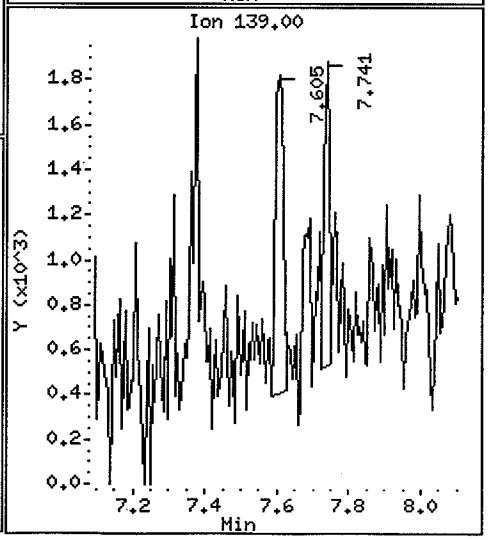


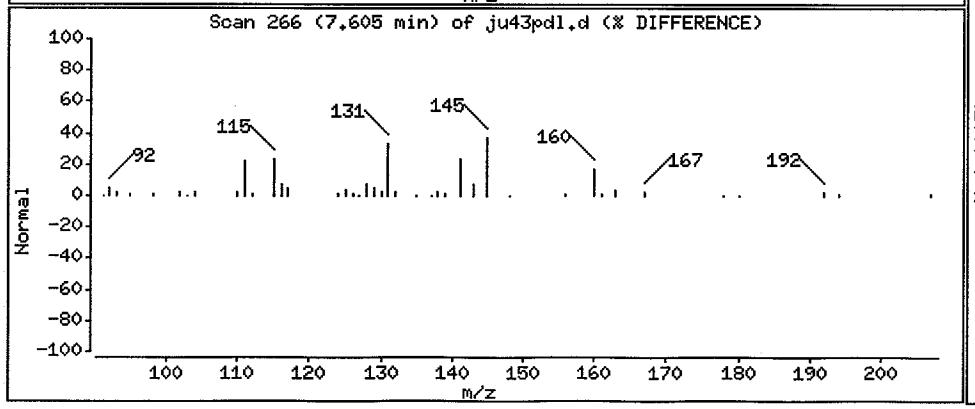












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

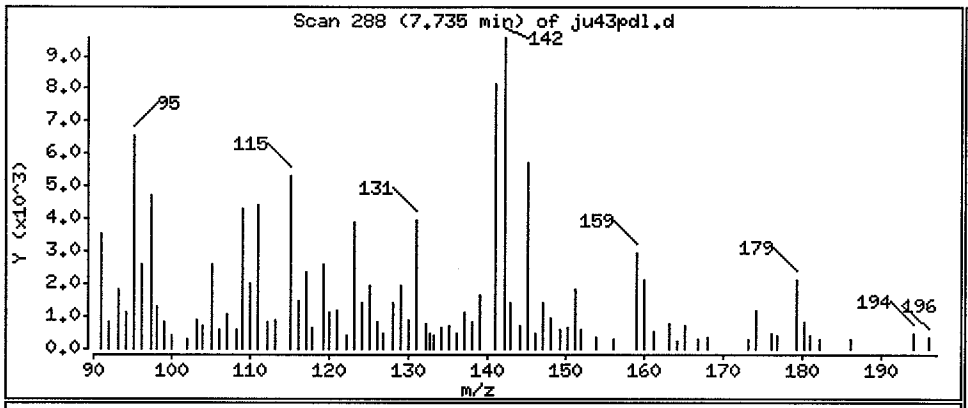
Operator: VTS

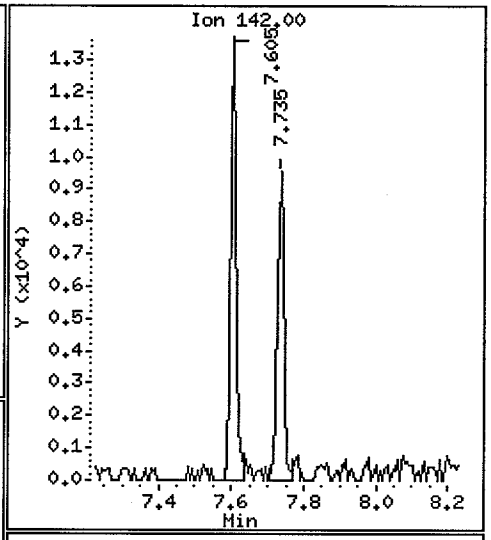
Column phase: ZB-5

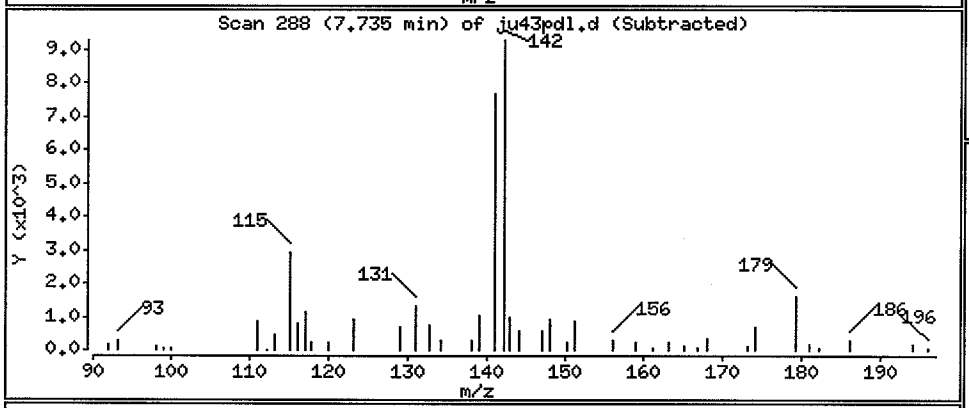
Column diameter: 0.25

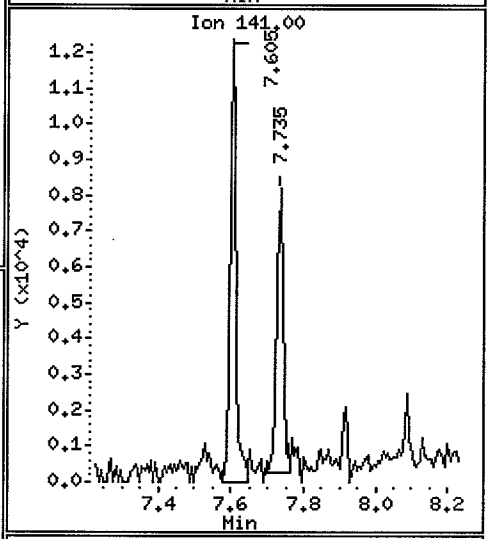
5 1-Methylnaphthalene

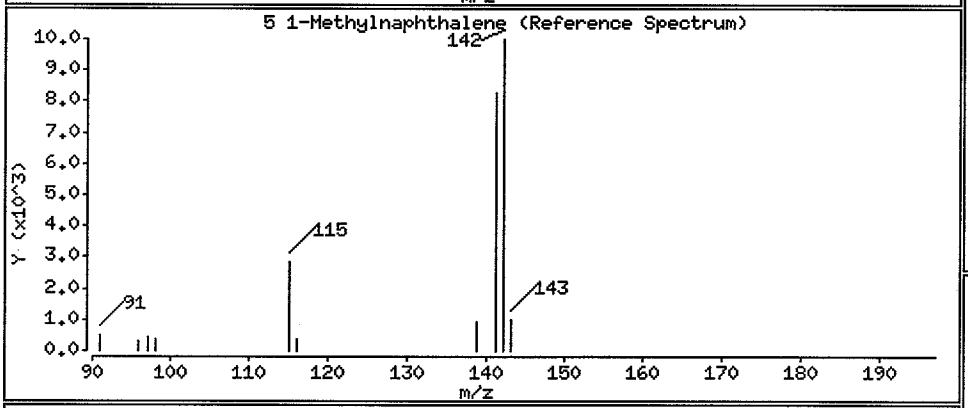
Concentration: 30.51 ug/kg

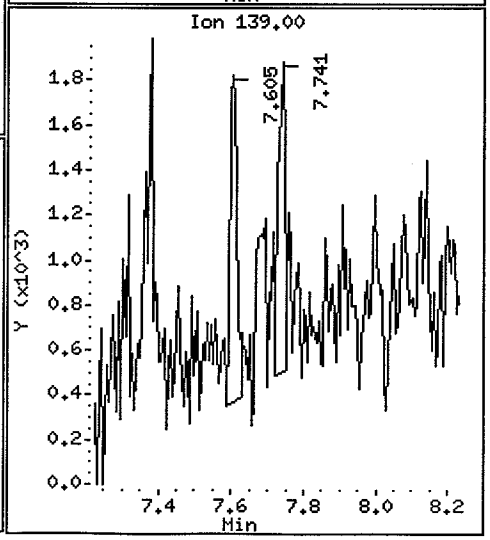


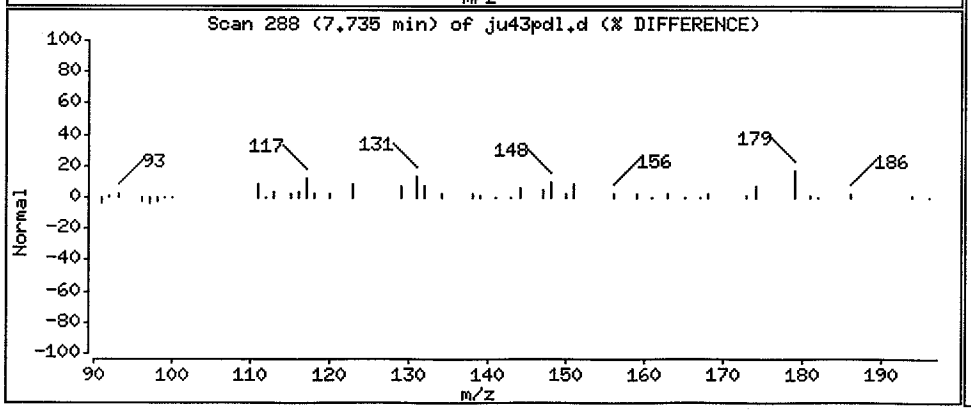












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

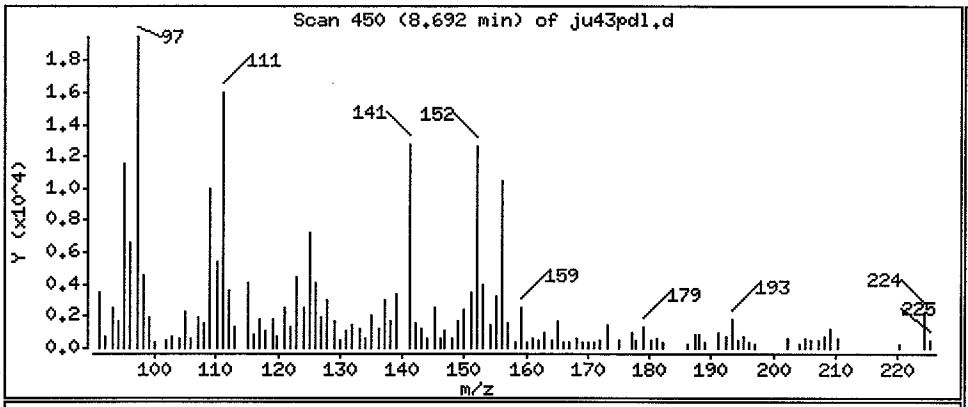
Operator: VTS

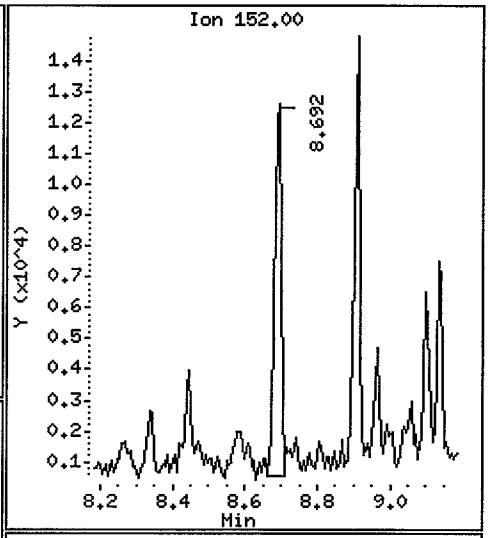
Column phase: ZB-5

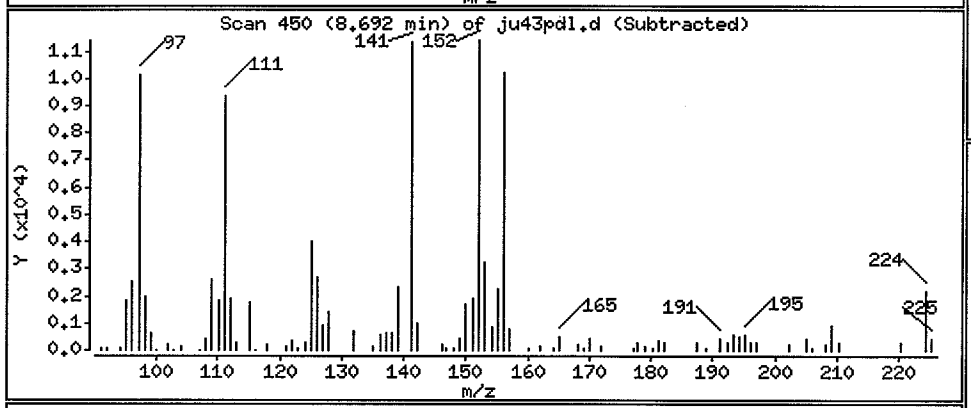
Column diameter: 0.25

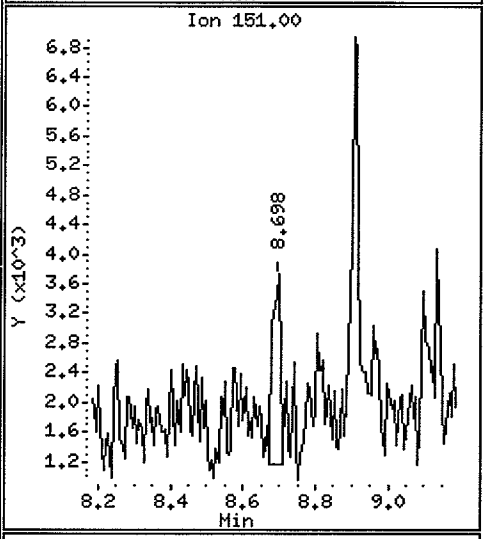
7 Acenaphthylene

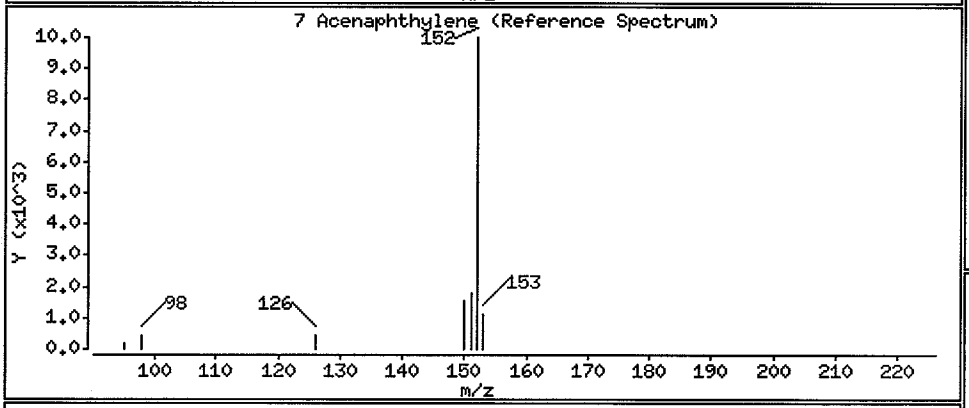
Concentration: 27.18 ug/kg

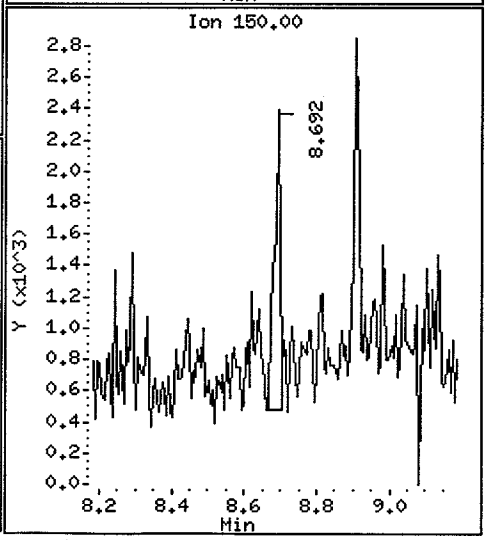


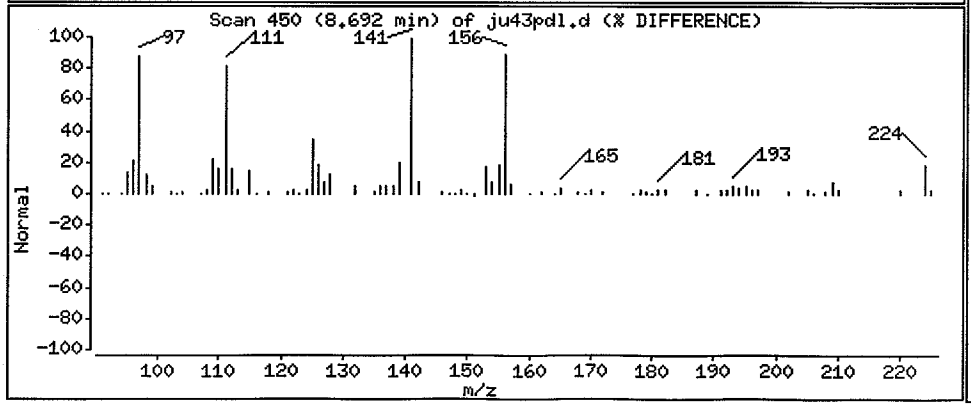












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

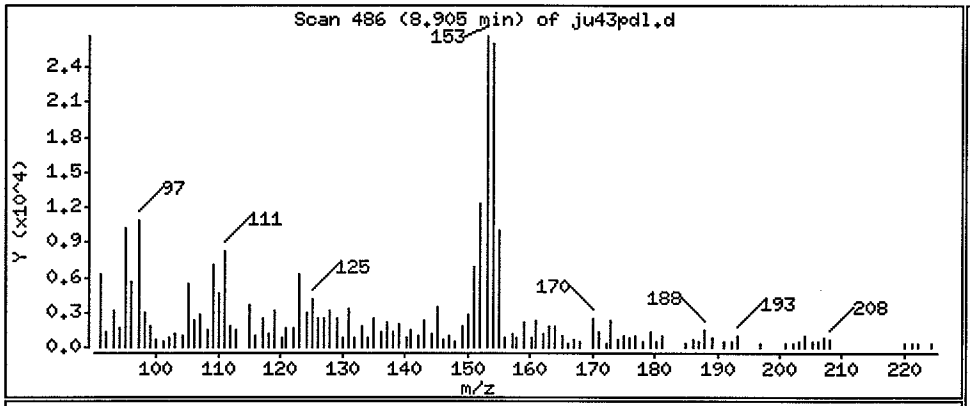
Operator: VTS

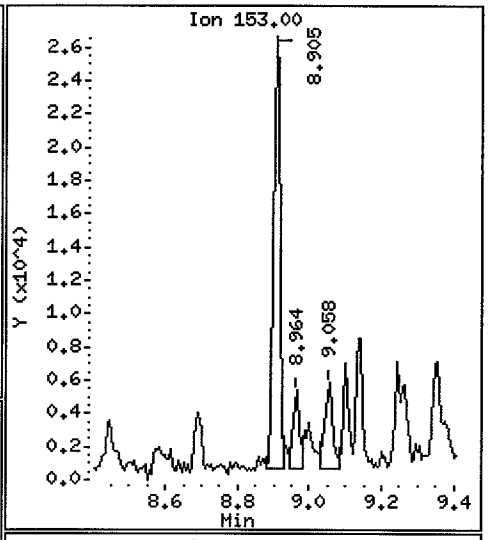
Column phase: ZB-5

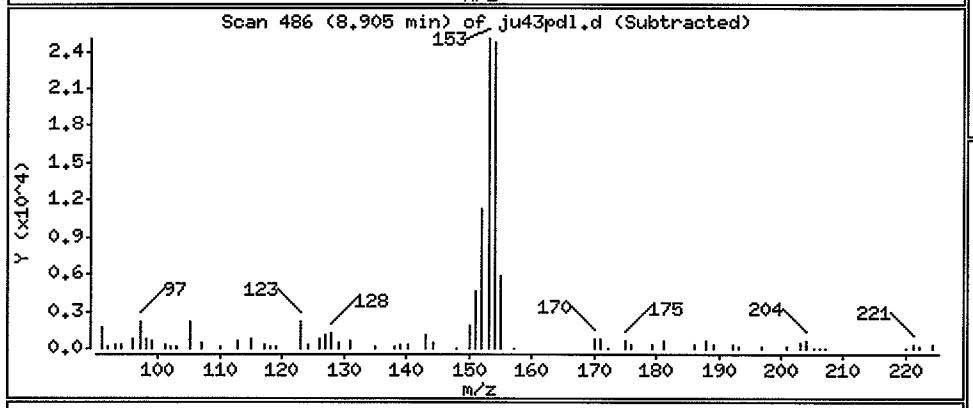
Column diameter: 0.25

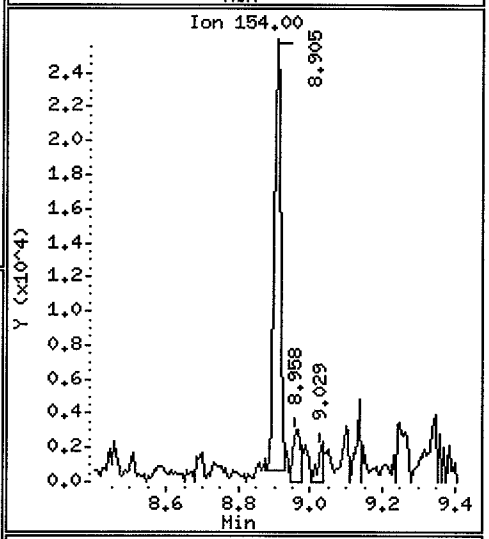
9 Acenaphthene

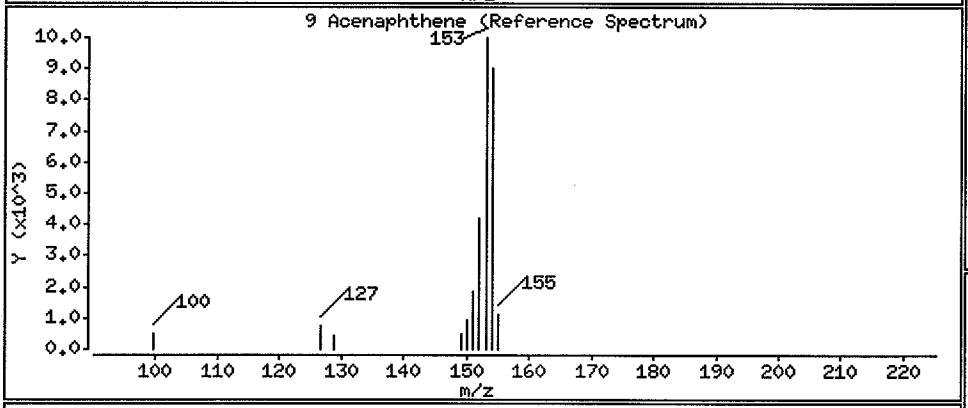
Concentration: 89.61 ug/kg

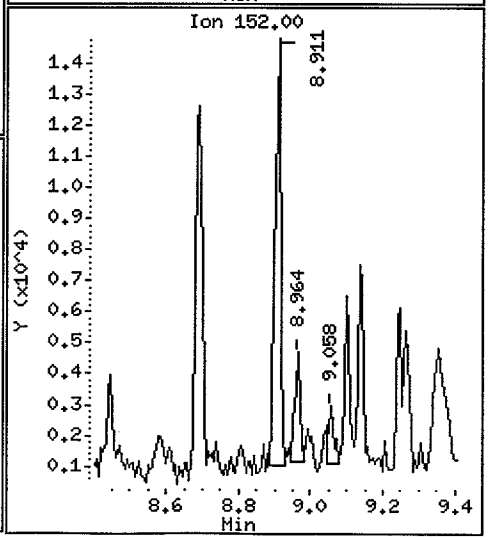


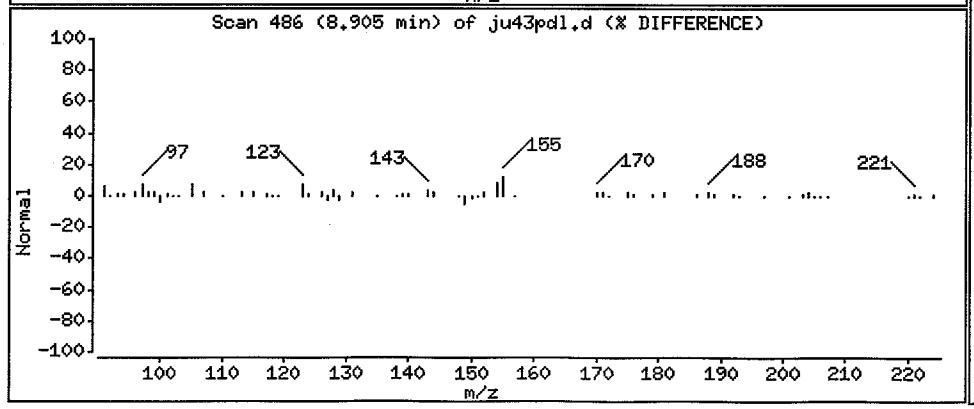












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

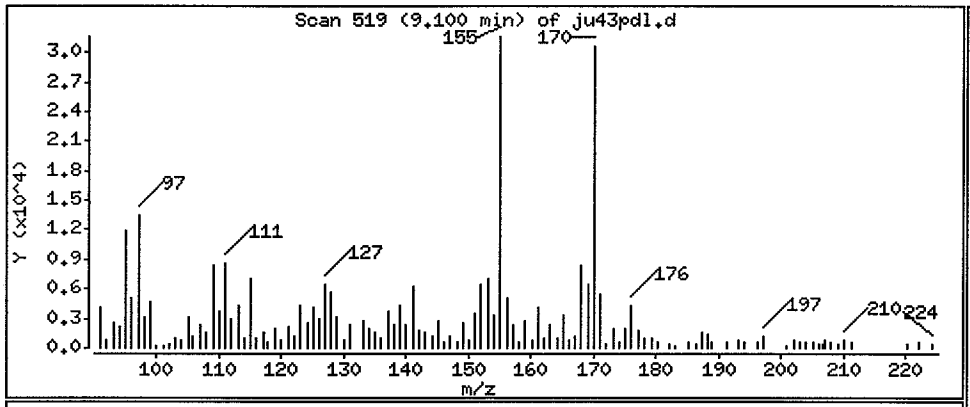
Operator: VTS

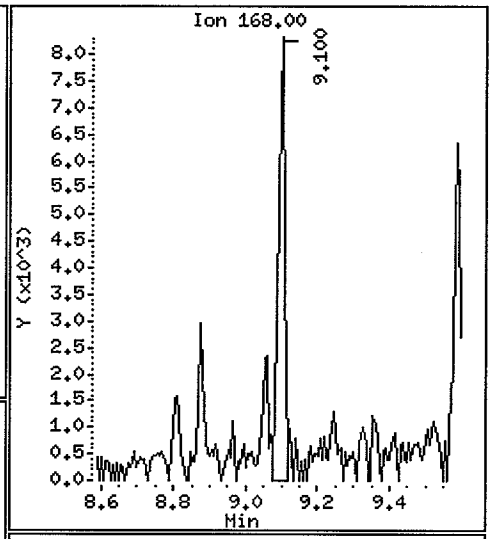
Column phase: ZB-5

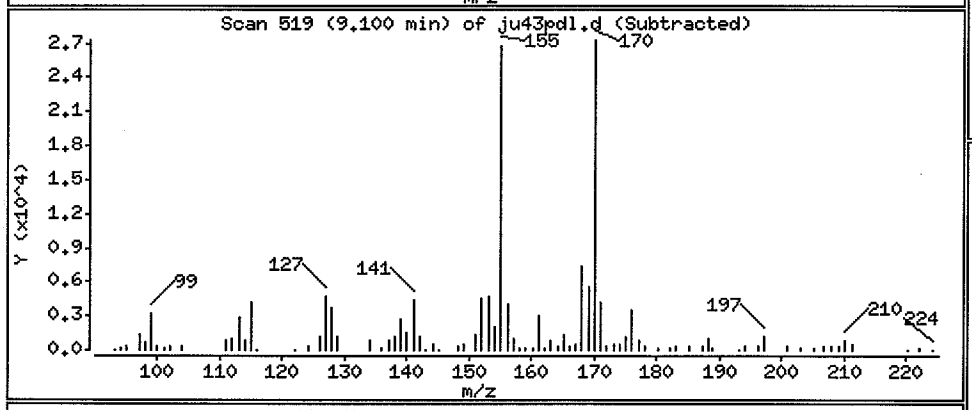
Column diameter: 0.25

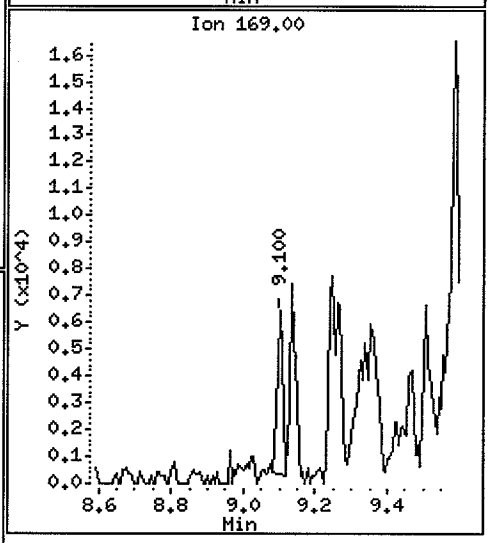
10 Dibenzofuran

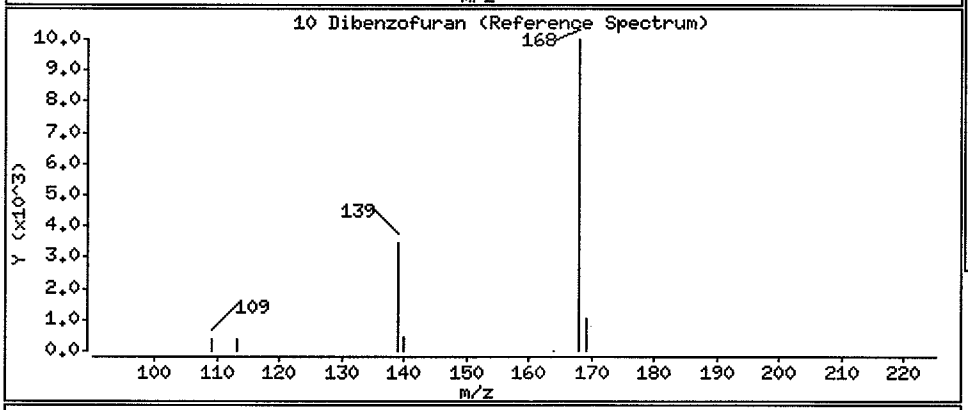
Concentration: 20.77 ug/kg

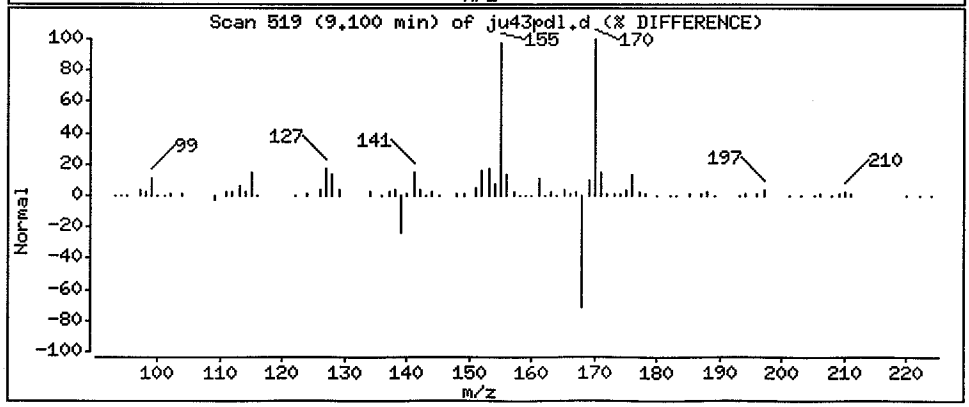












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

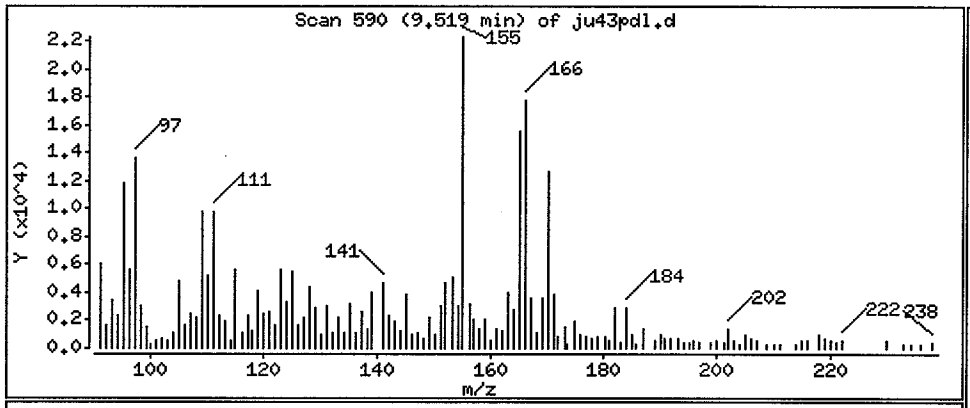
Operator: VTS

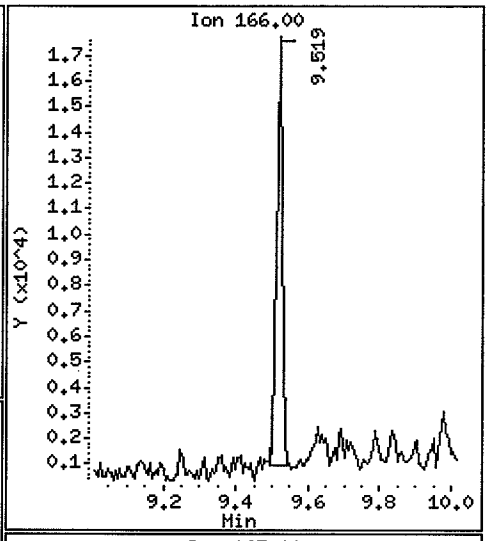
Column phase: ZB-5

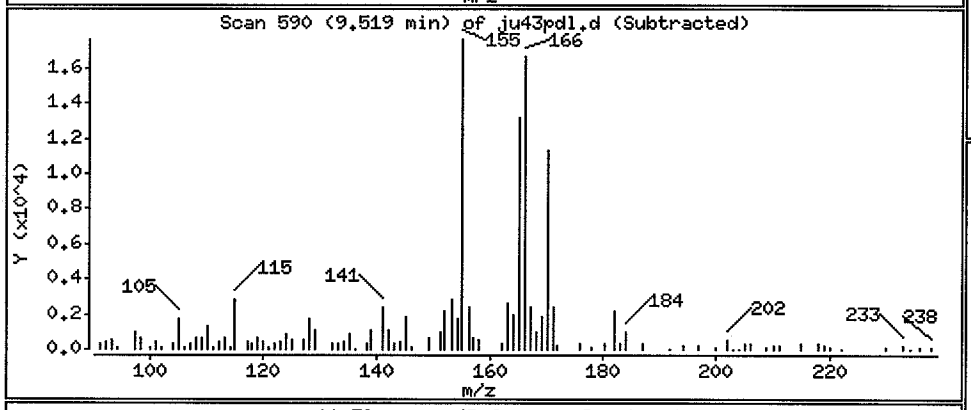
Column diameter: 0.25

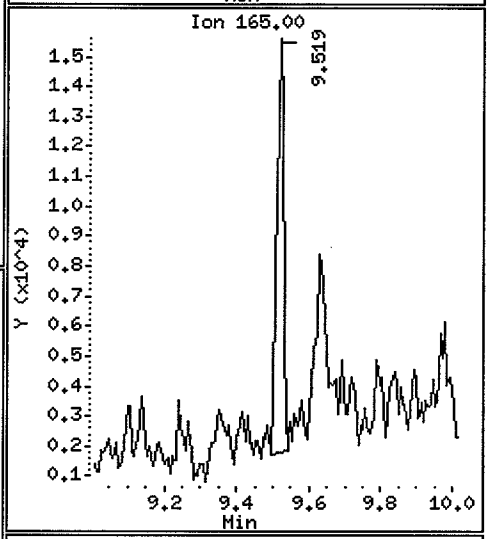
11 Fluorene

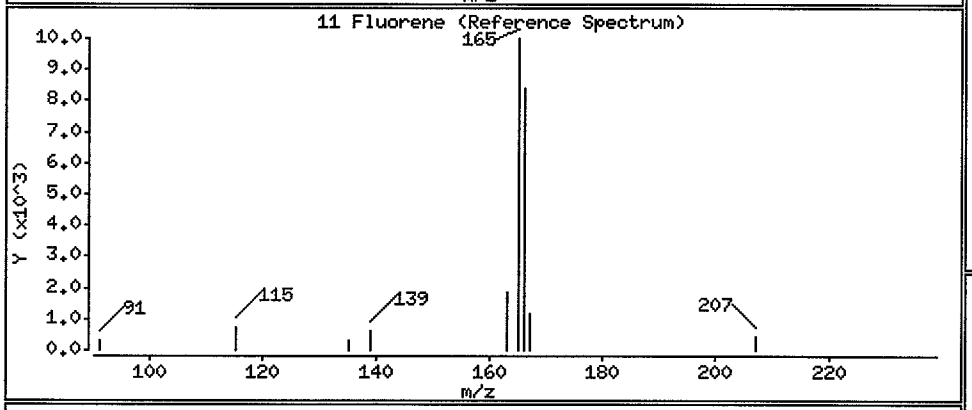
Concentration: 50.21 ug/kg

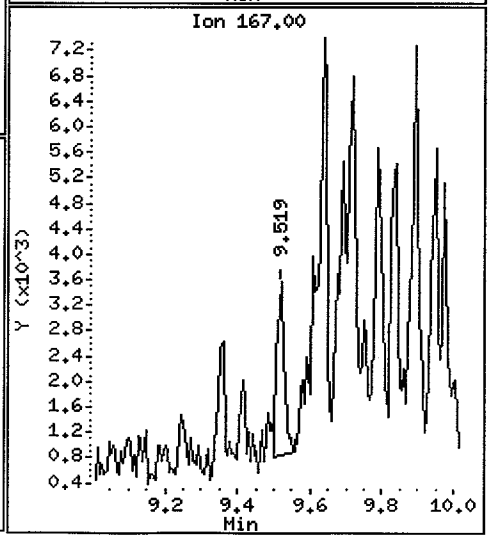


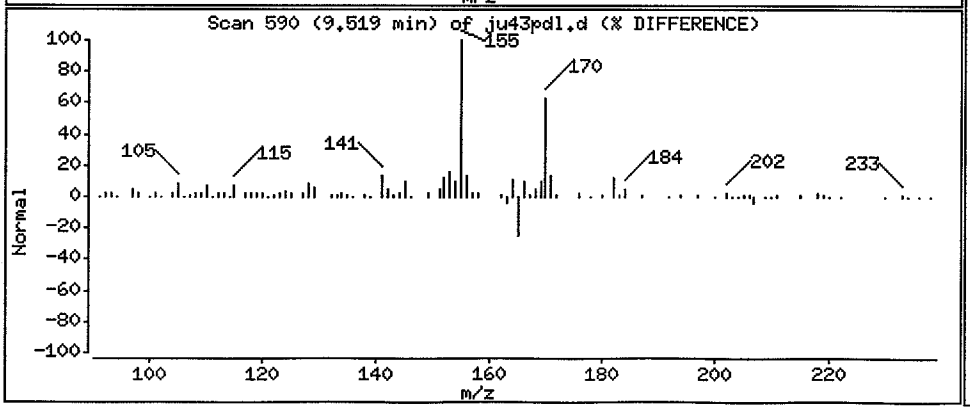












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

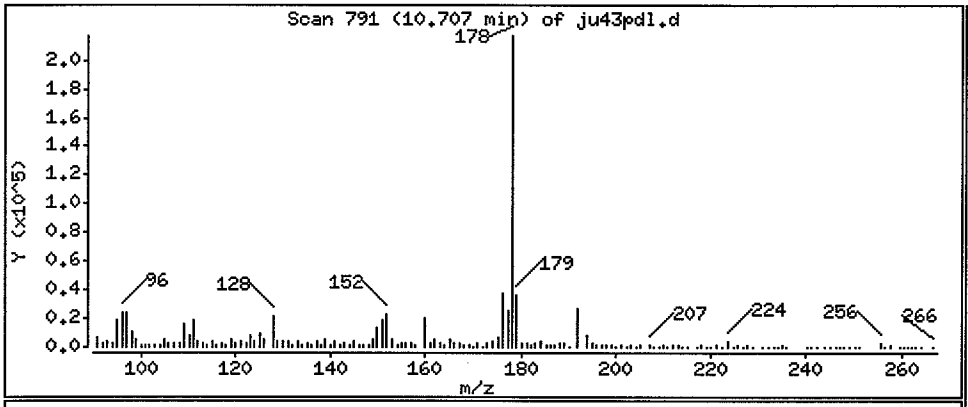
Operator: VTS

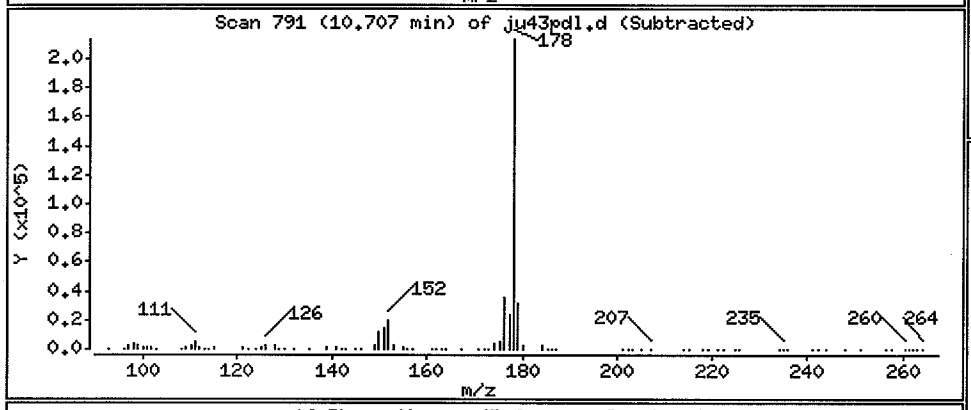
Column phase: ZB-5

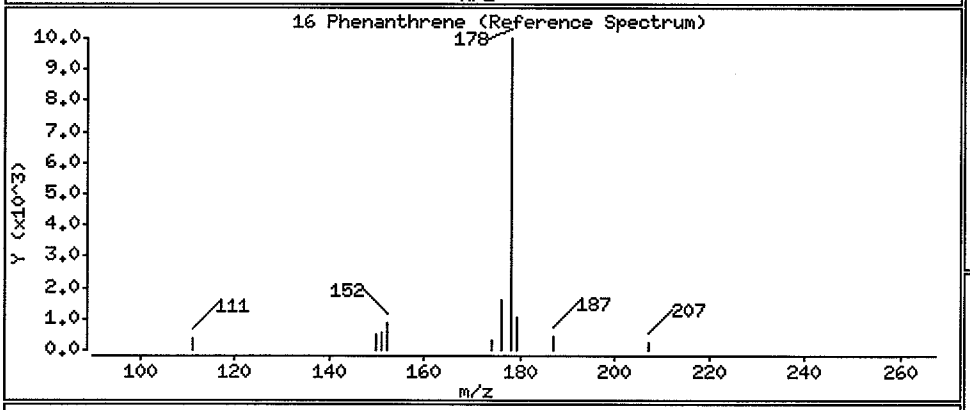
Column diameter: 0.25

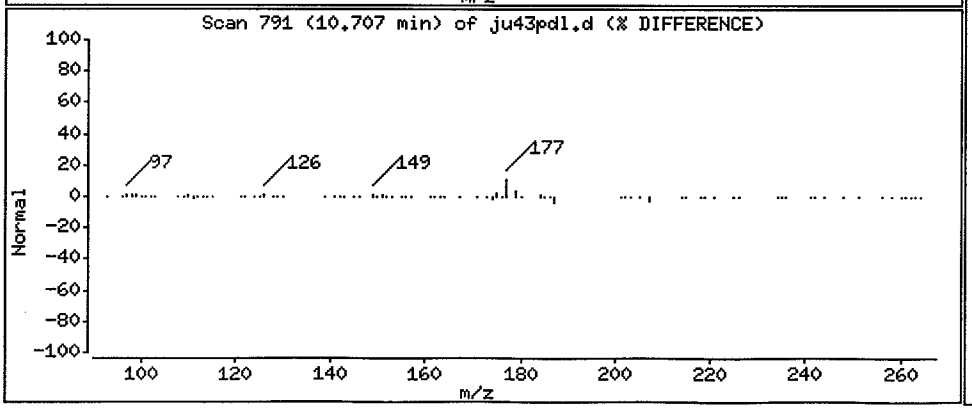
16 Phenanthrene

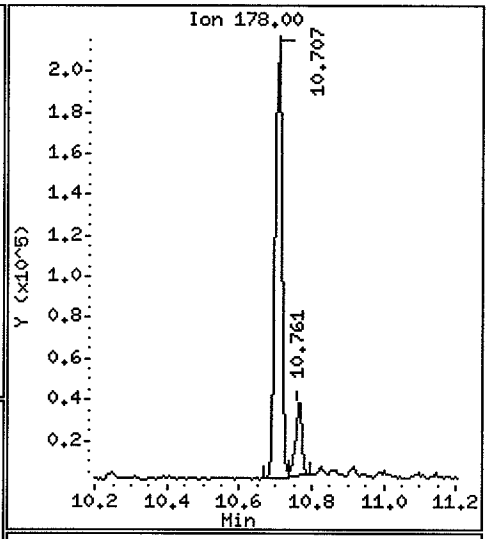
Concentration: 514.9 ug/kg

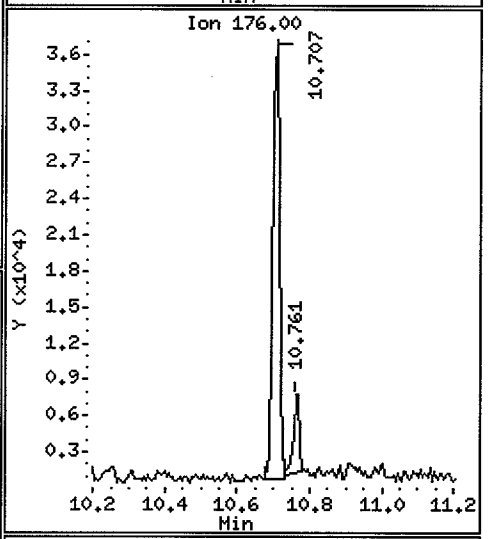


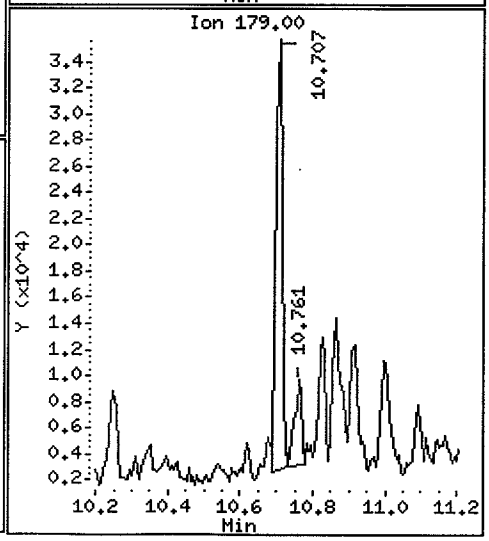












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

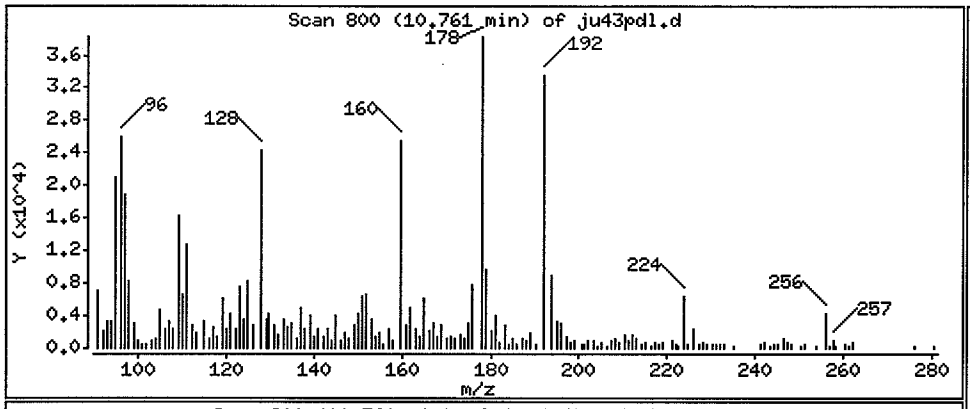
Operator: VTS

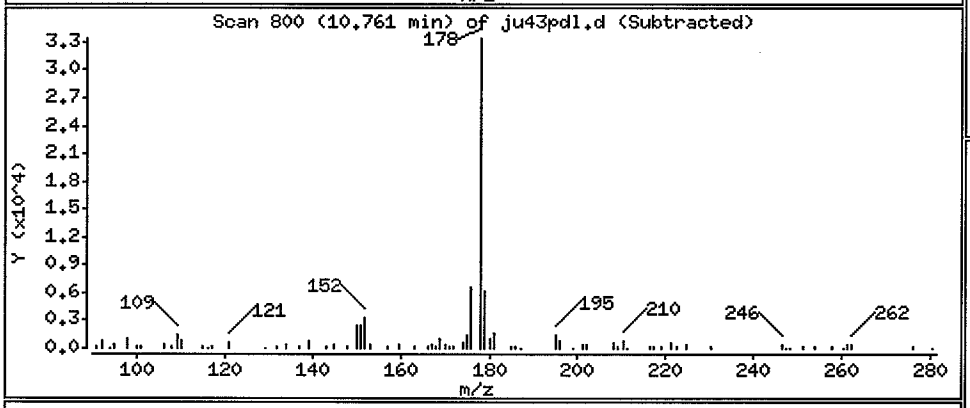
Column phase: ZB-5

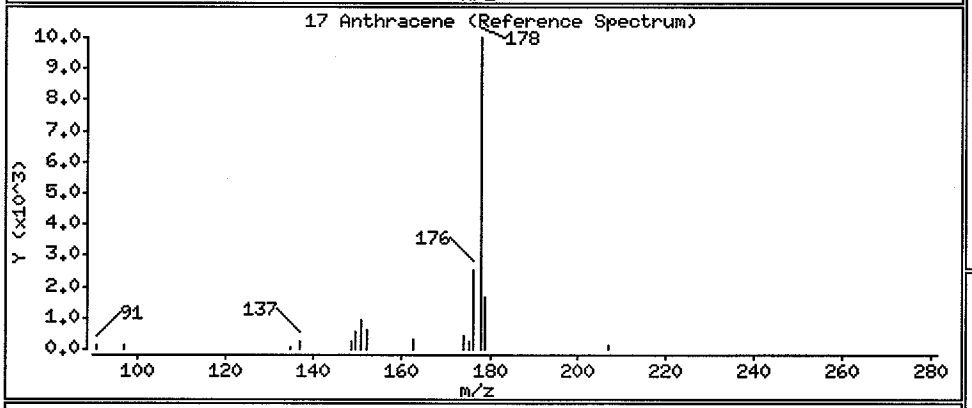
Column diameter: 0.25

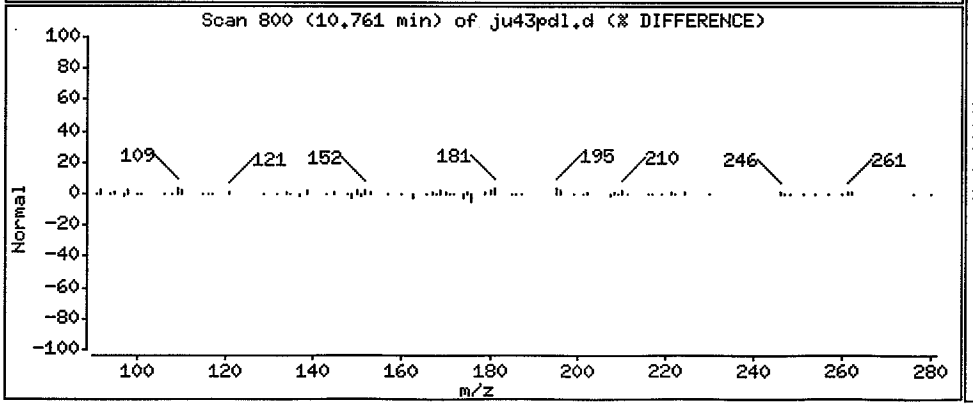
17 Anthracene

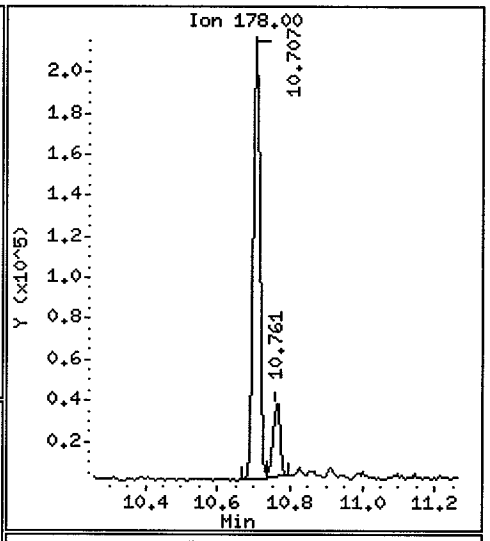
Concentration: 94.04 ug/kg

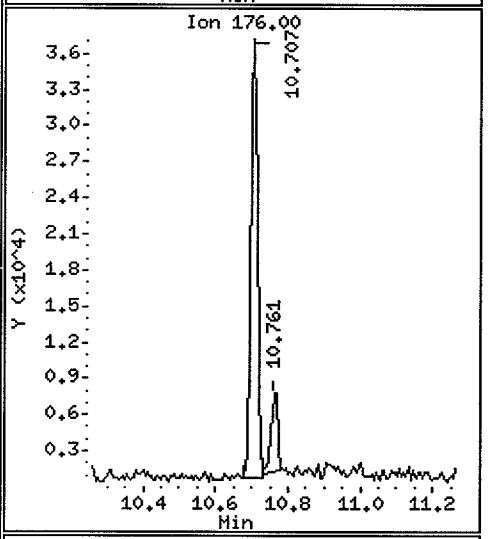


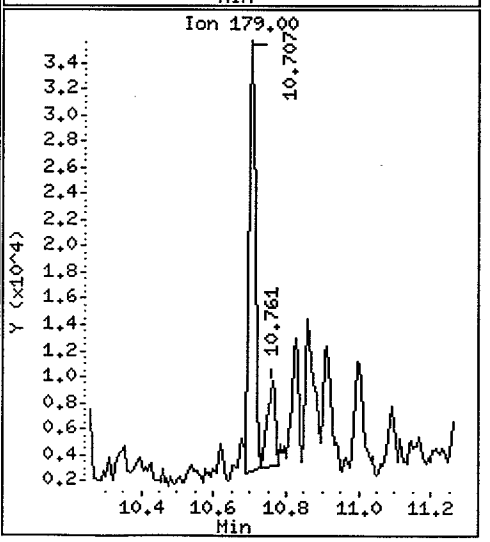












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

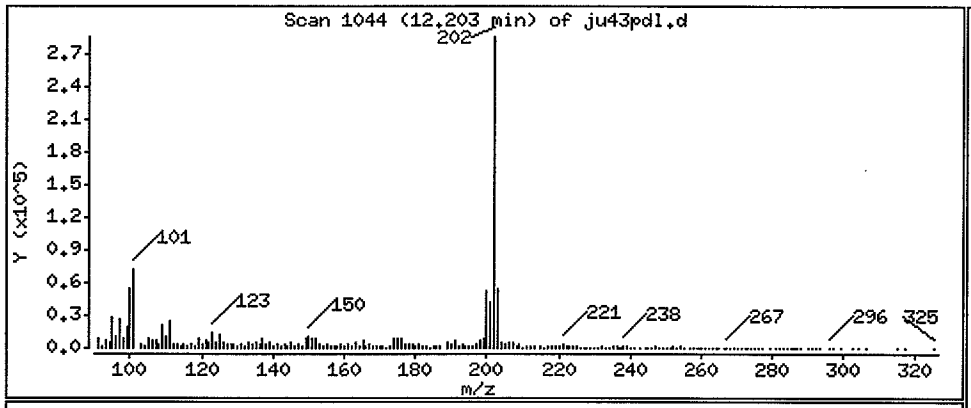
Operator: VTS

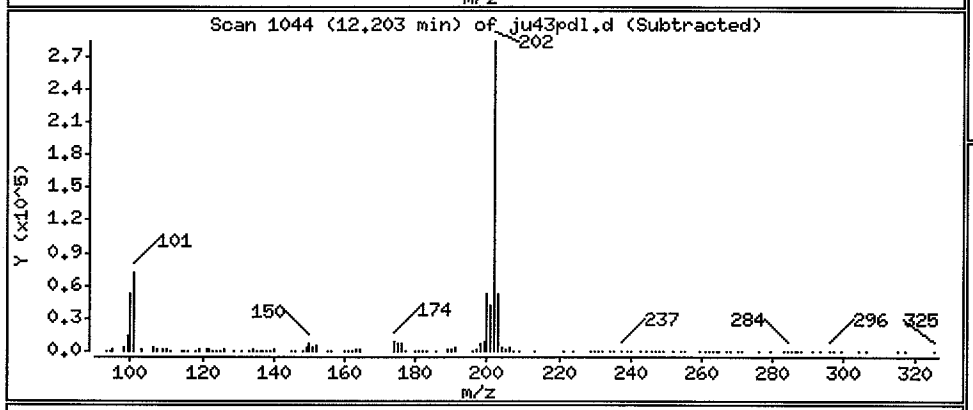
Column phase: ZB-5

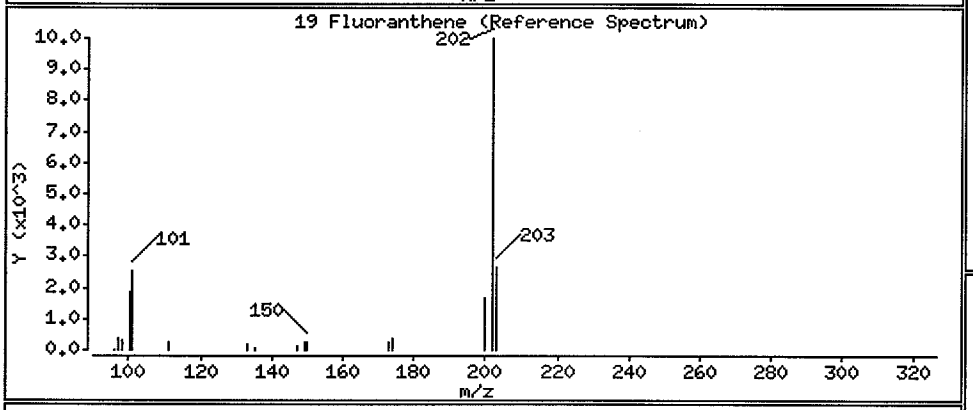
Column diameter: 0.25

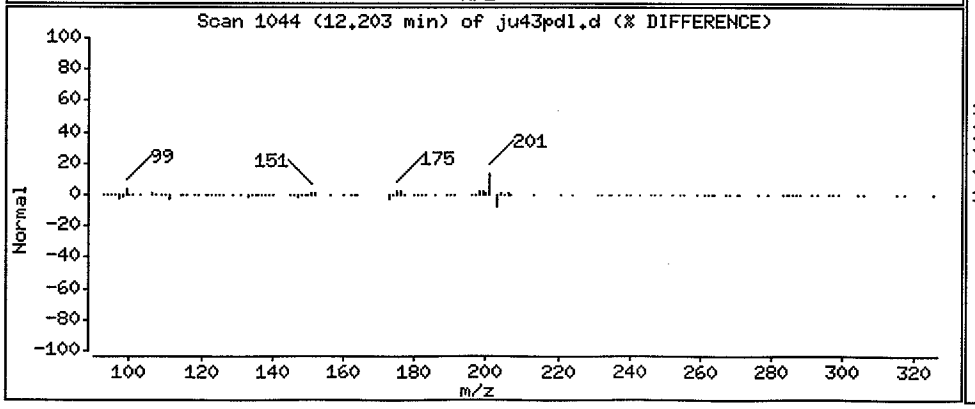
19 Fluoranthene

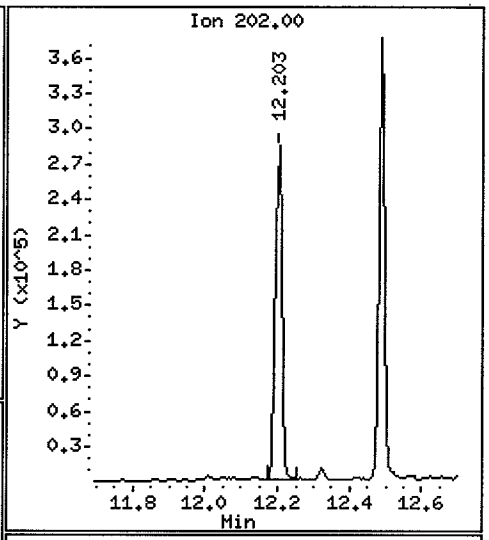
Concentration: 810.6 ug/kg

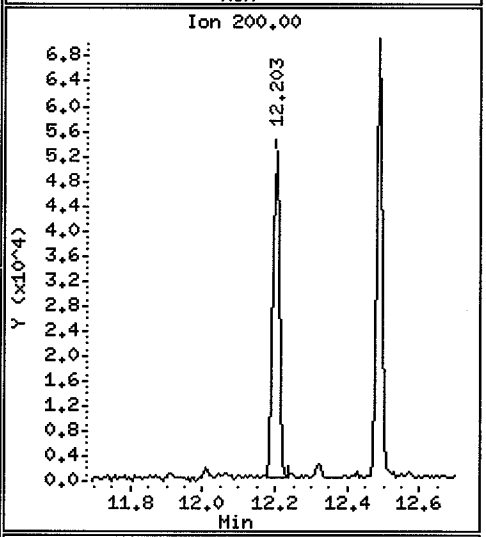


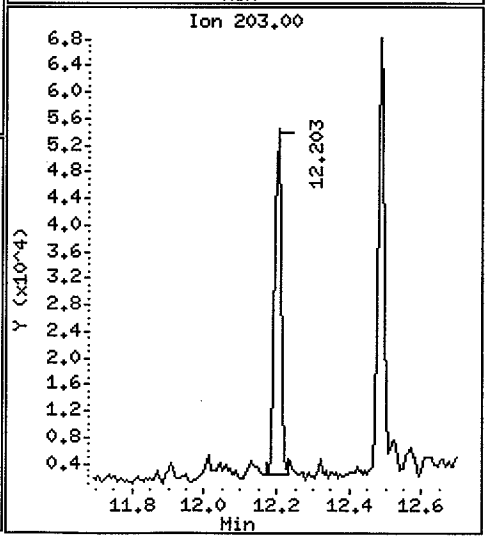












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

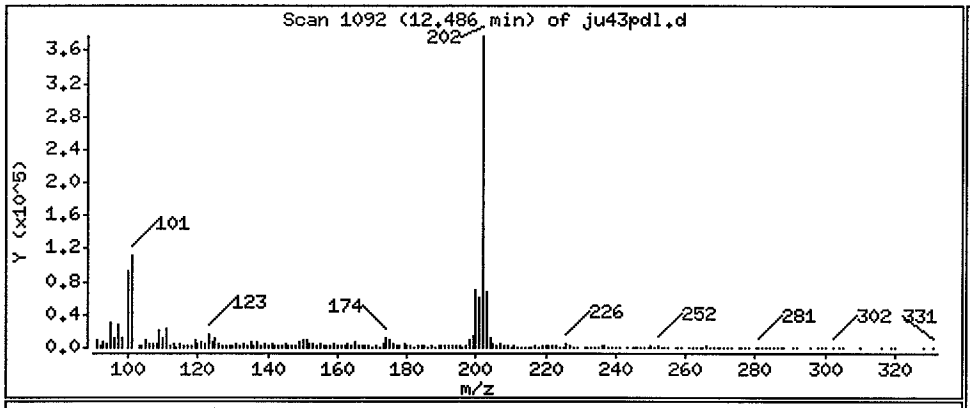
Operator: VTS

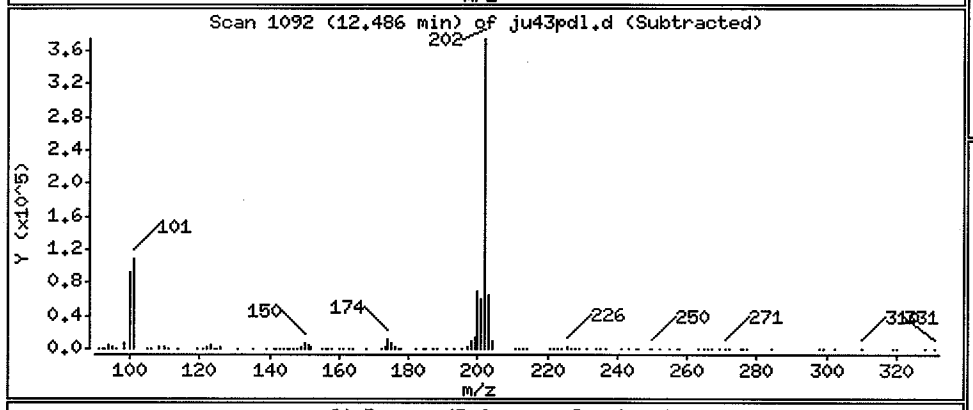
Column phase: ZB-5

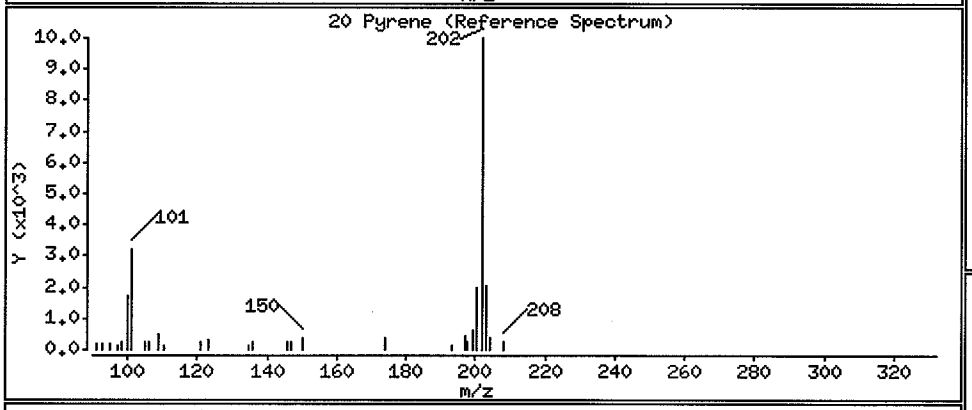
Column diameter: 0.25

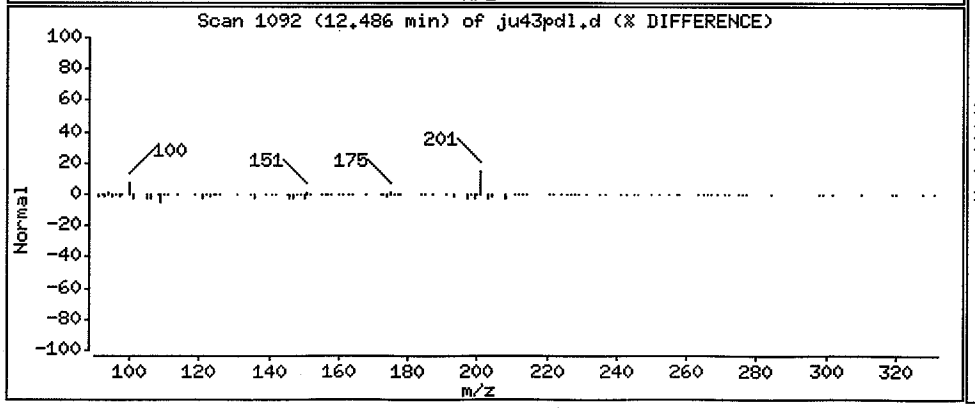
20 Pyrene

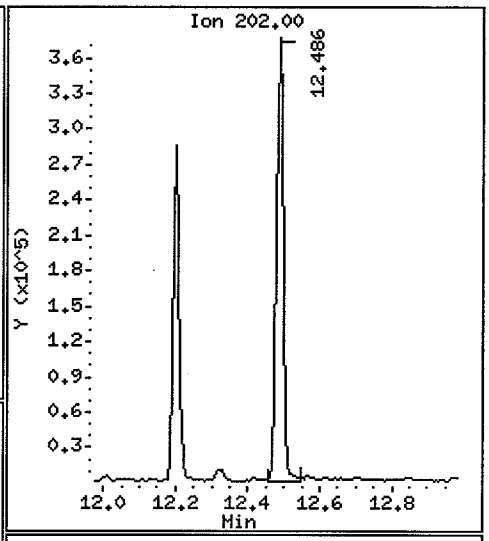
Concentration: 941.7 ug/kg

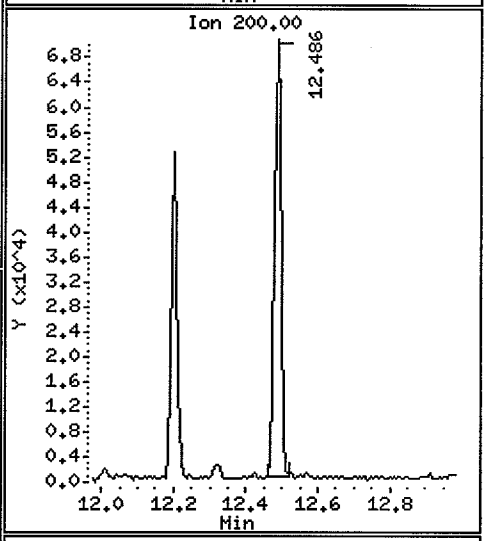


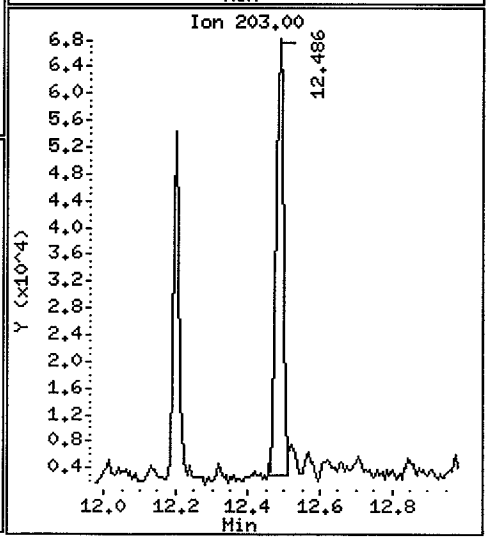












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

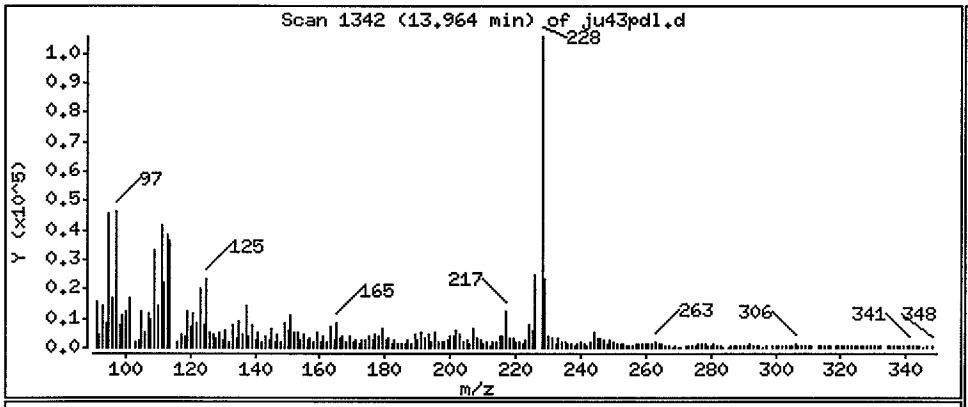
Operator: VTS

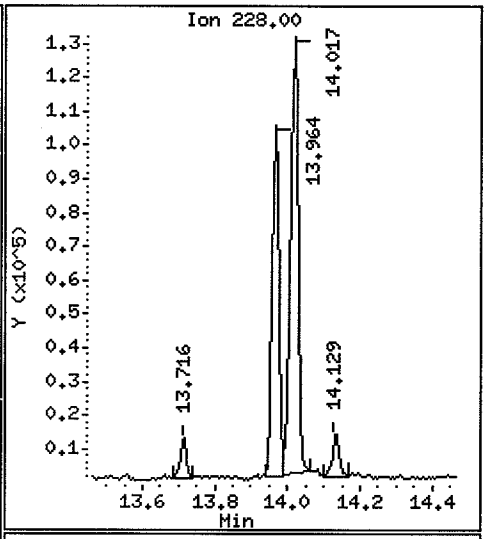
Column phase: ZB-5

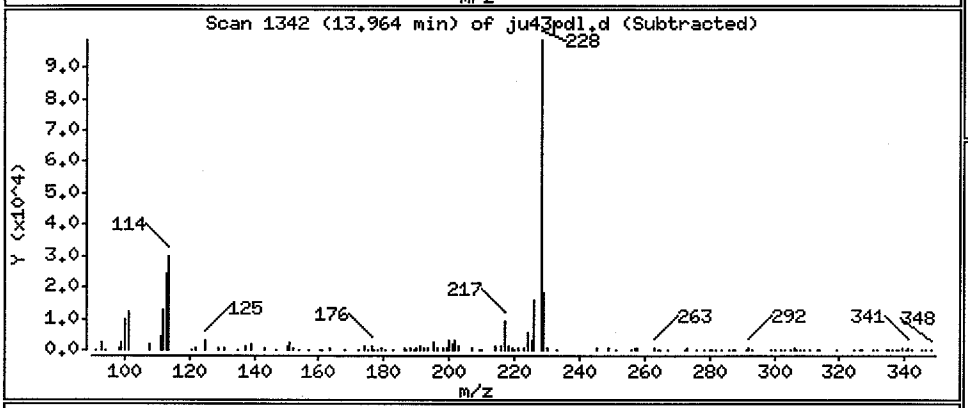
Column diameter: 0.25

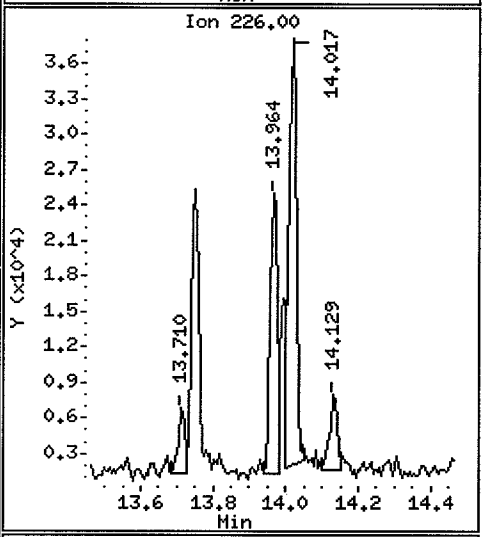
22 Benzo(a)anthracene

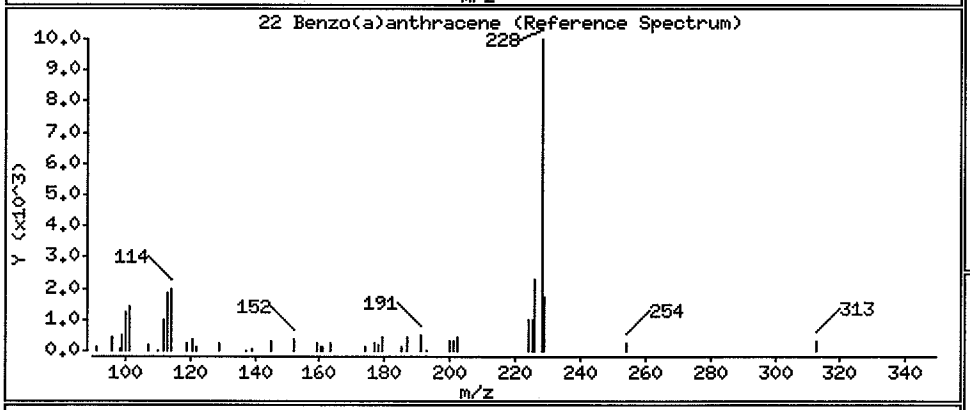
Concentration: 305.5 ug/kg

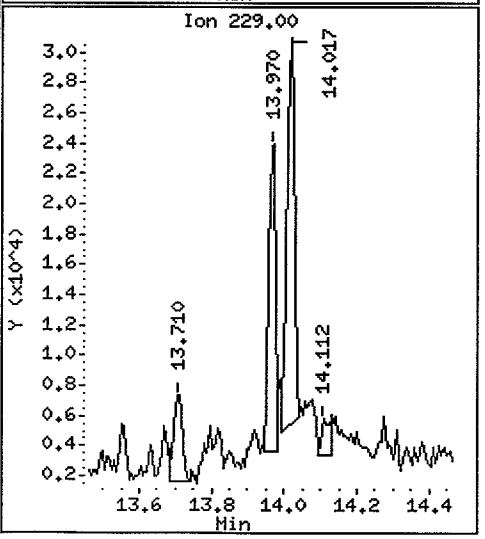


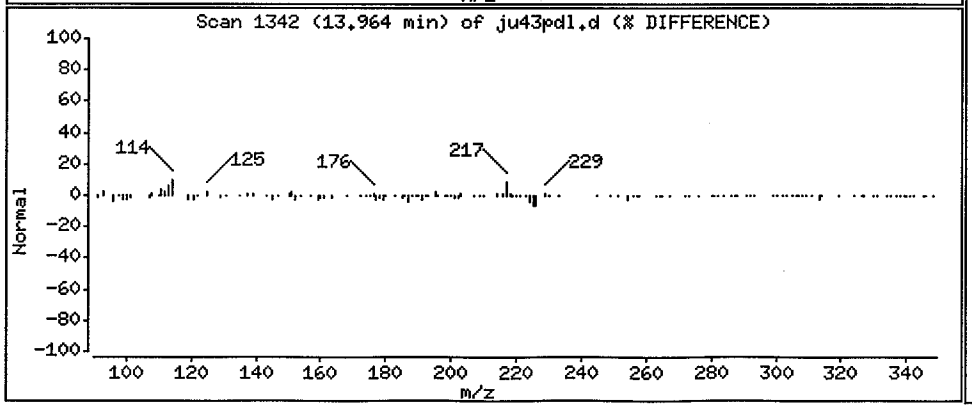












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

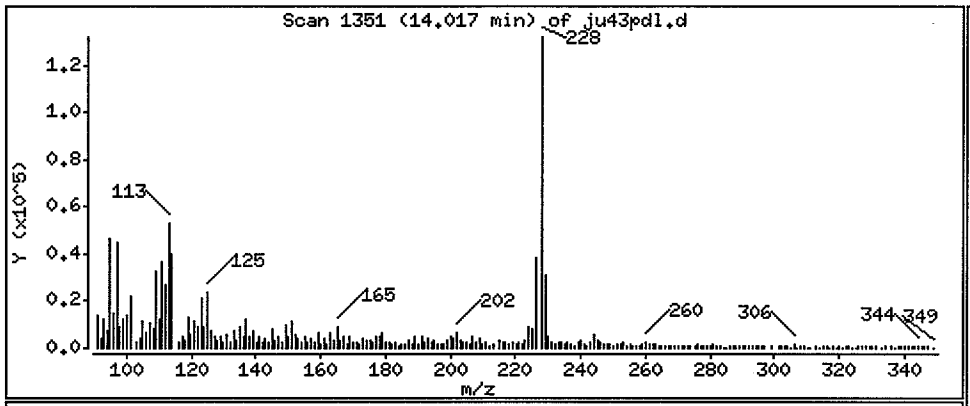
Operator: VTS

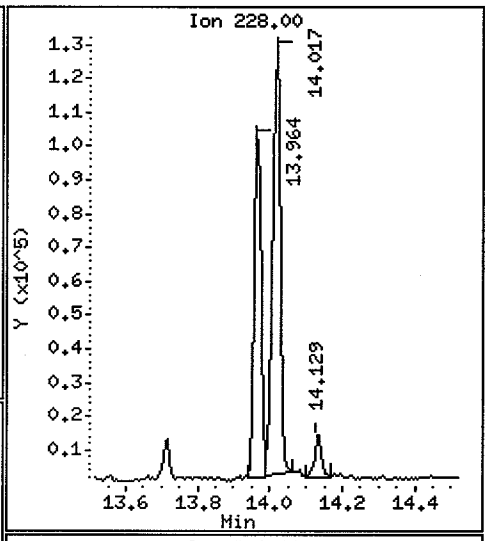
Column phase: ZB-5

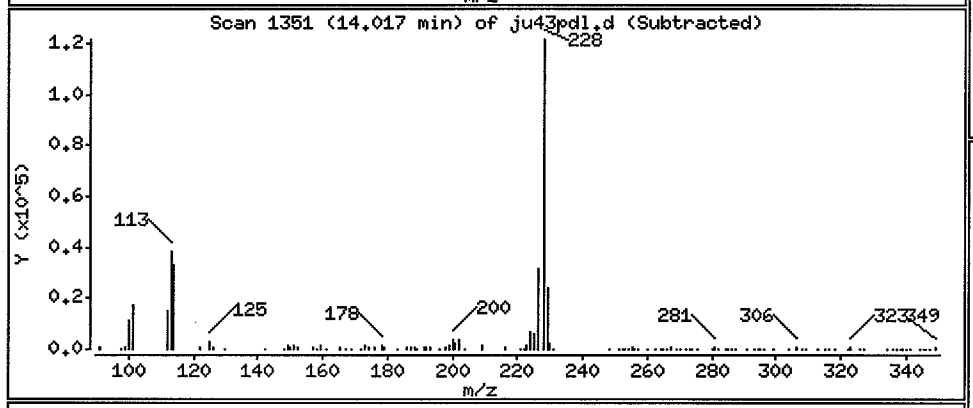
Column diameter: 0.25

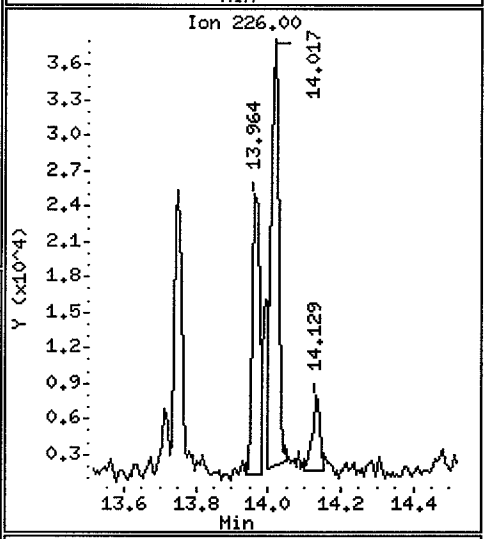
24 Chrysene

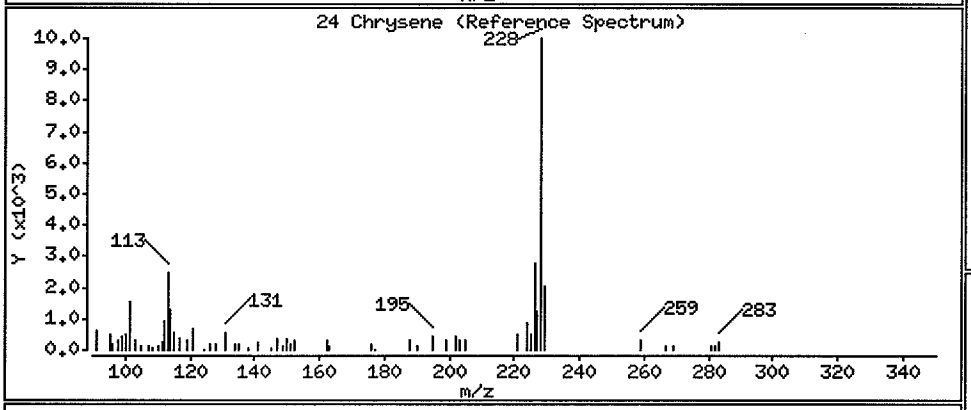
Concentration: 462.7 ug/kg

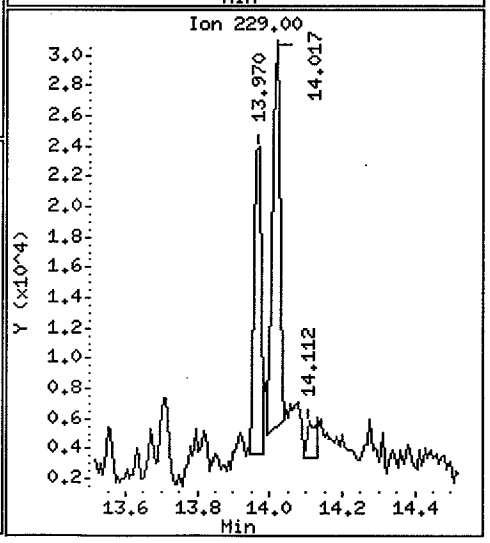


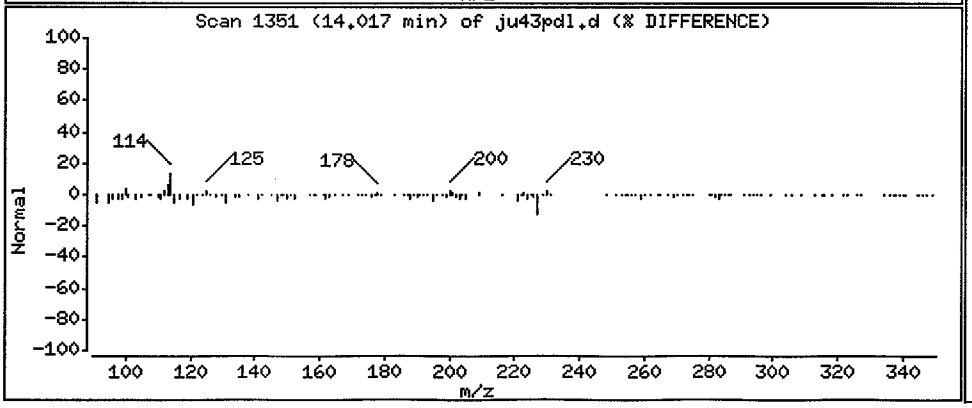












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

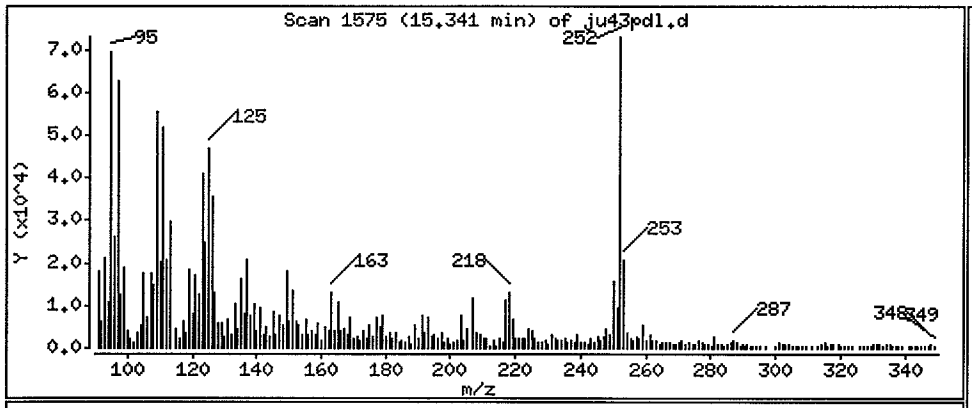
Operator: VTS

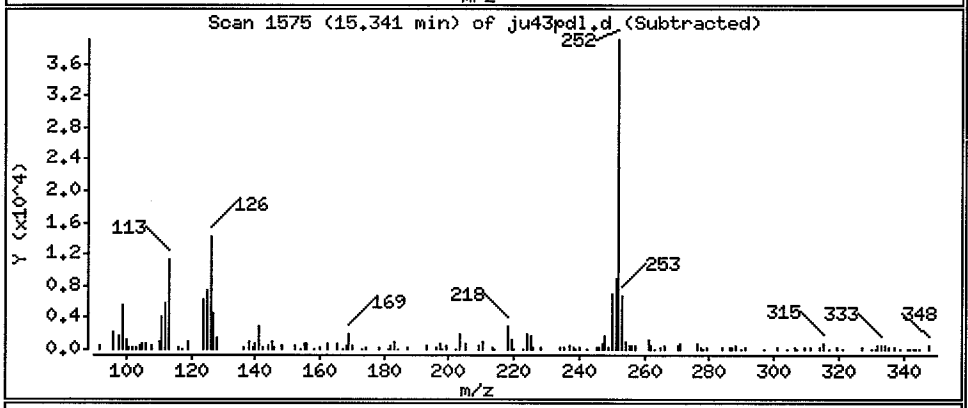
Column phase: ZB-5

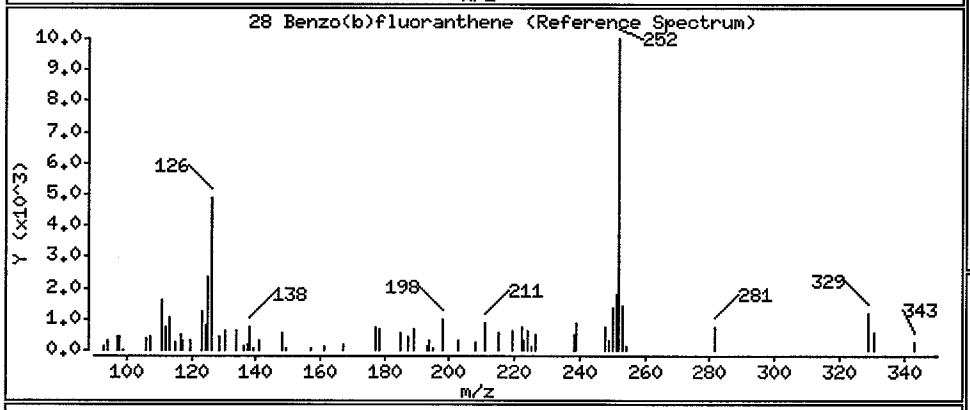
Column diameter: 0.25

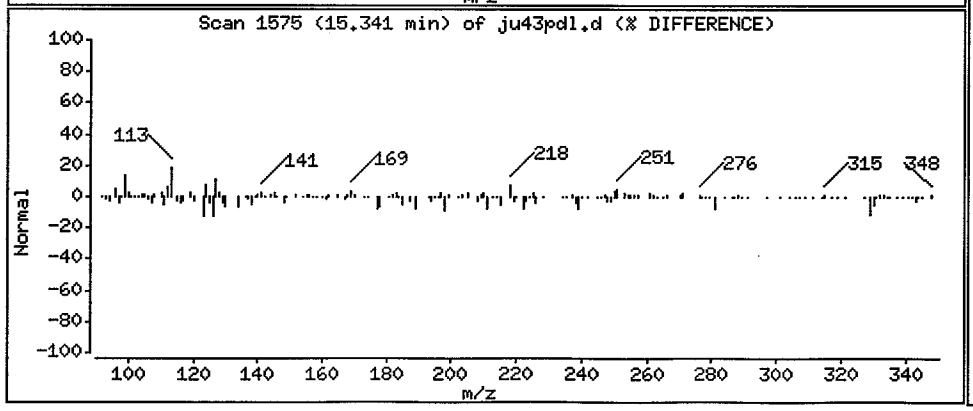
28 Benzo(b)fluoranthene

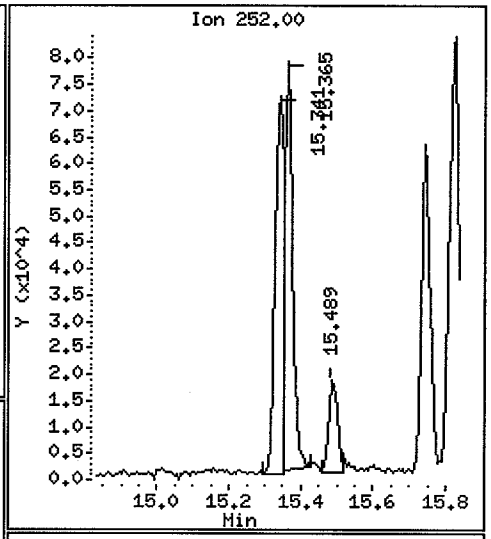
Concentration: 295.1 ug/kg

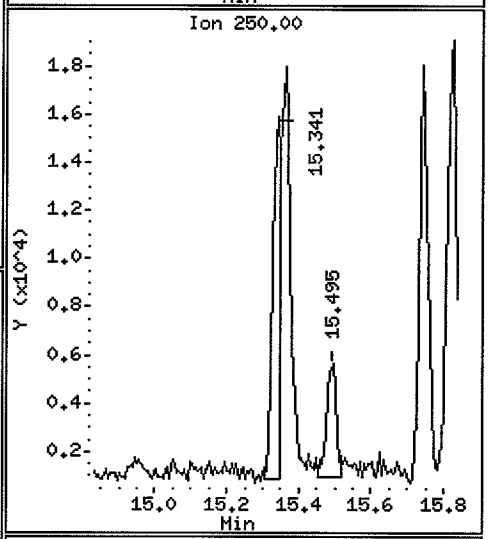


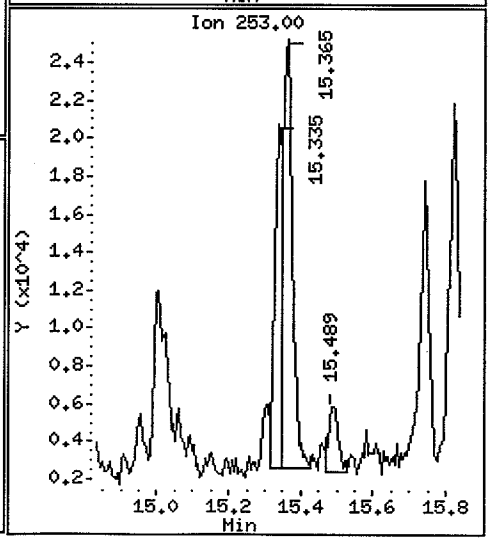












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

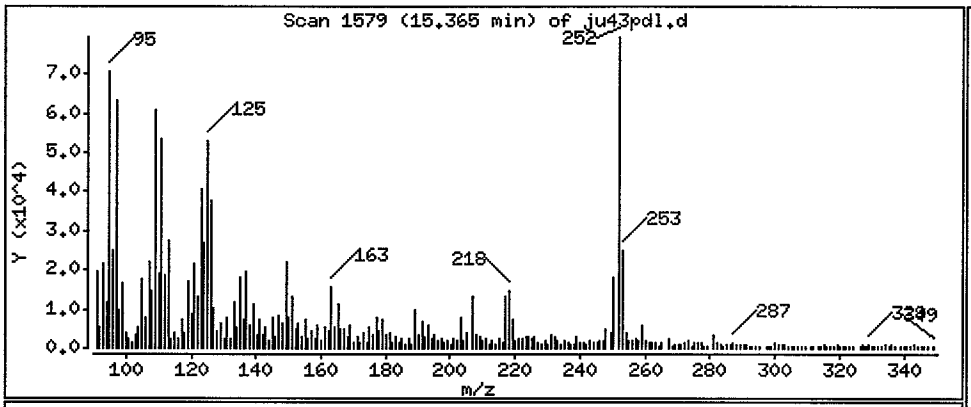
Operator: VTS

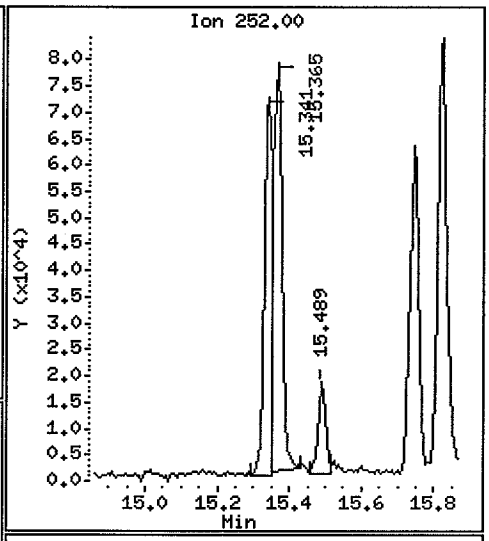
Column phase: ZB-5

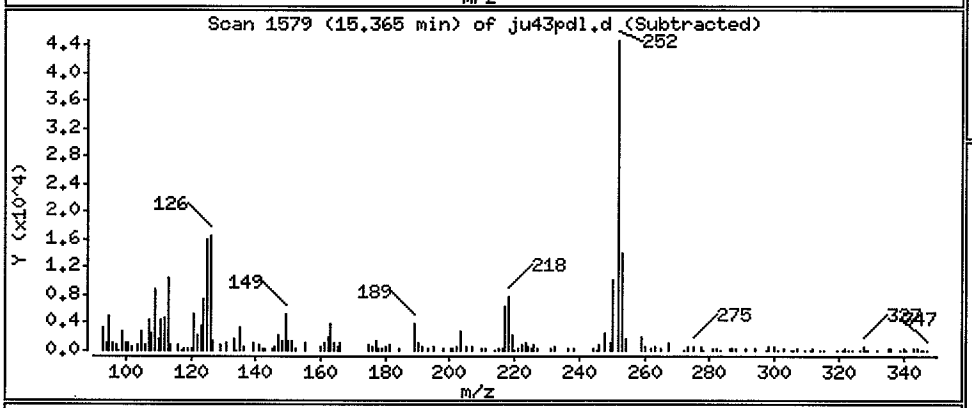
Column diameter: 0.25

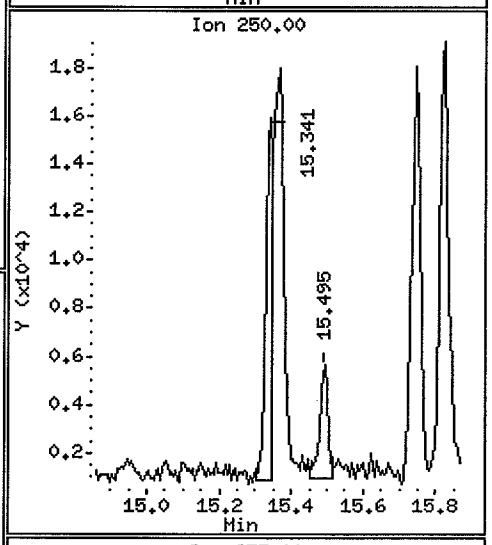
29 Benzo(k)fluoranthene

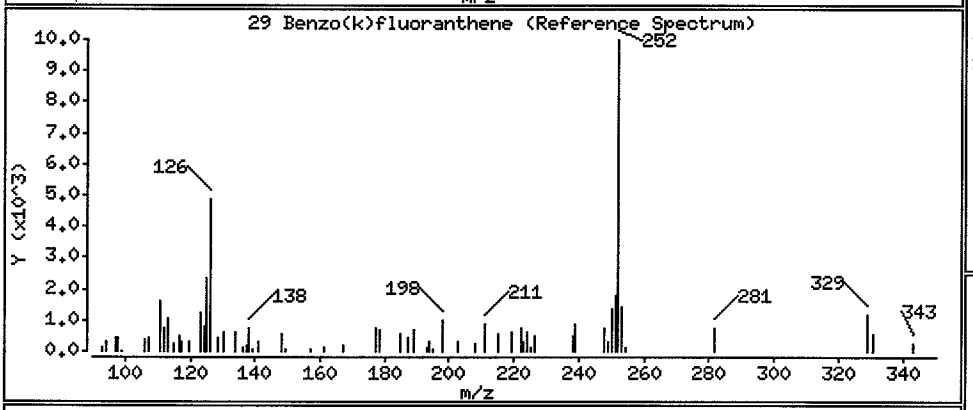
Concentration: 299.9 ug/kg

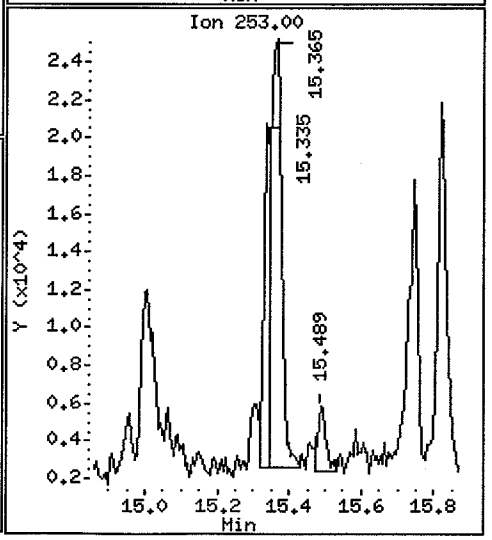


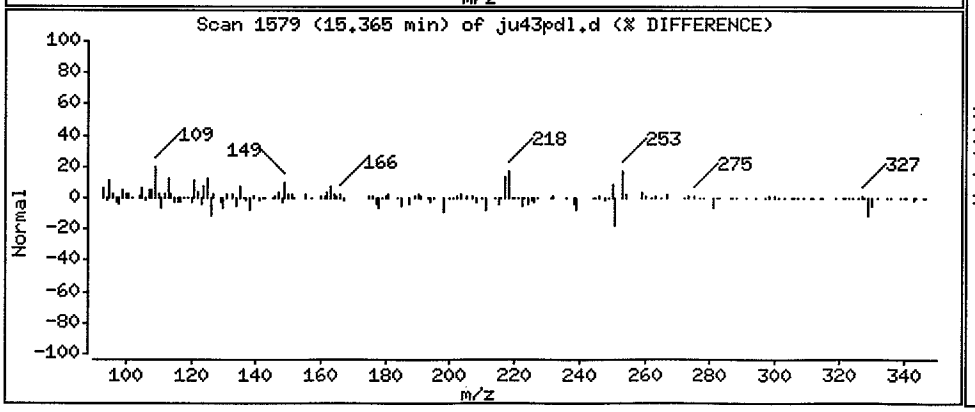












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

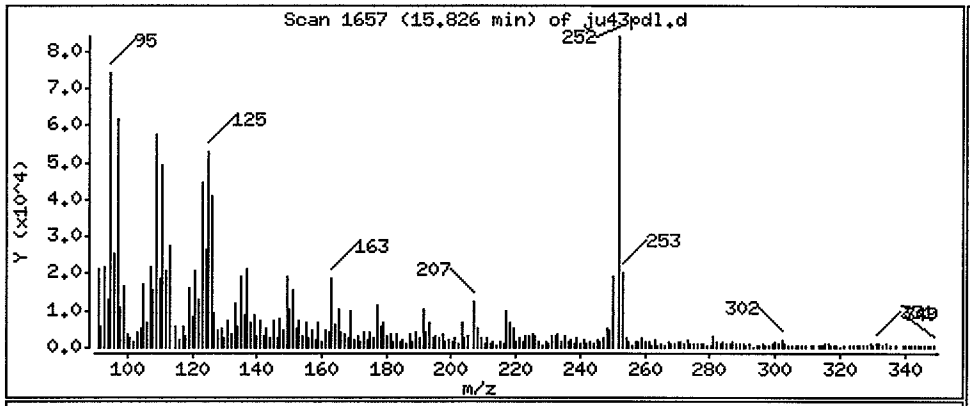
Operator: VTS

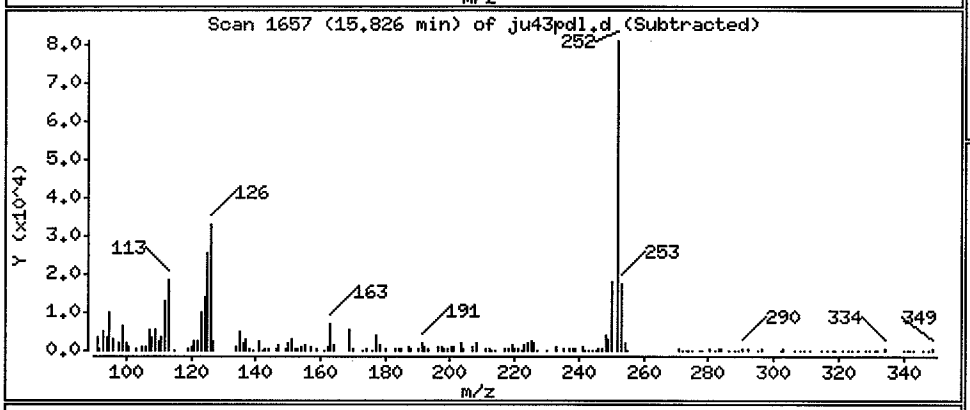
Column phase: ZB-5

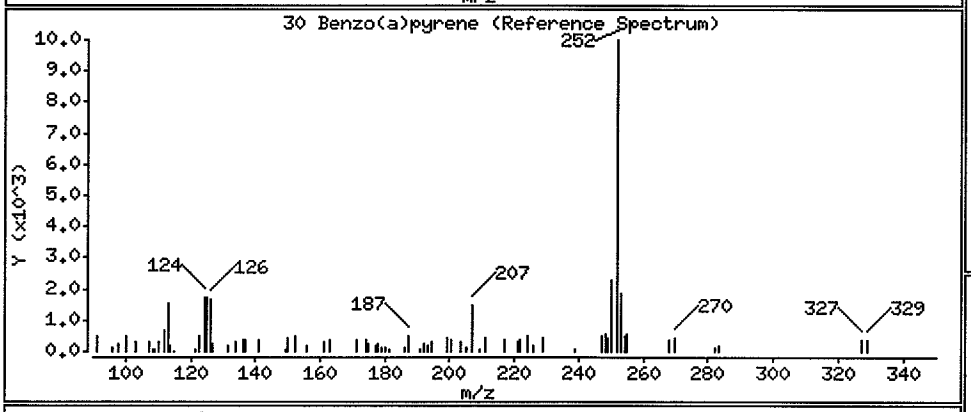
Column diameter: 0.25

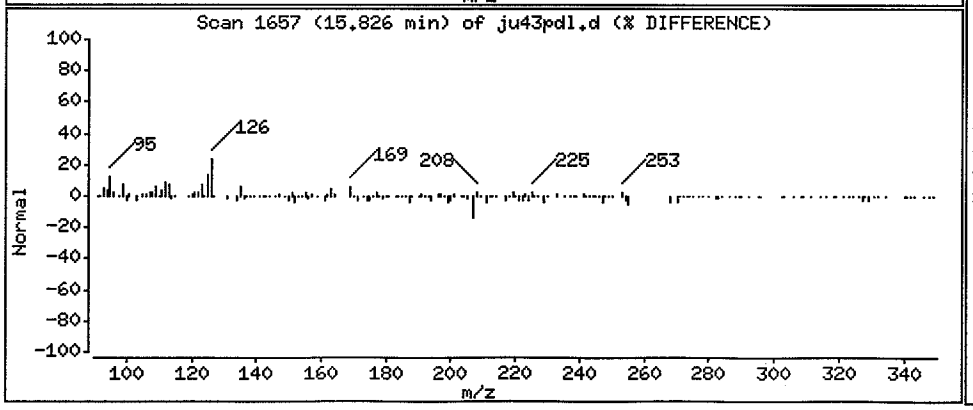
30 Benzo(a)pyrene

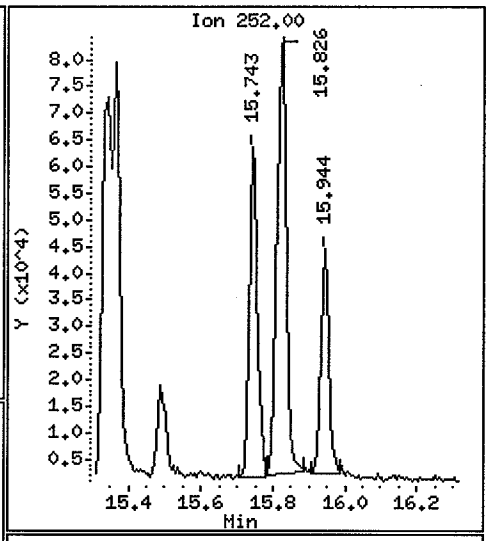
Concentration: 404.0 ug/kg

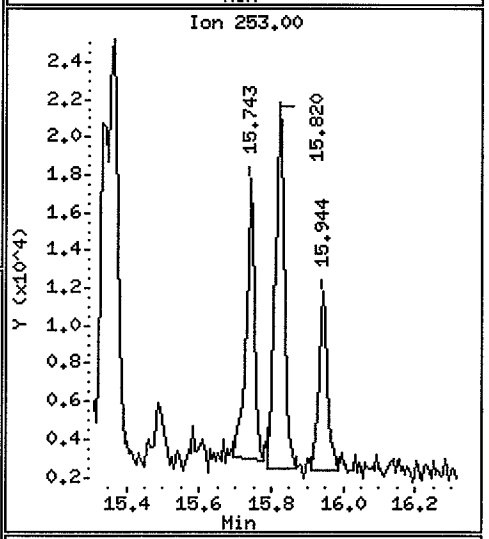


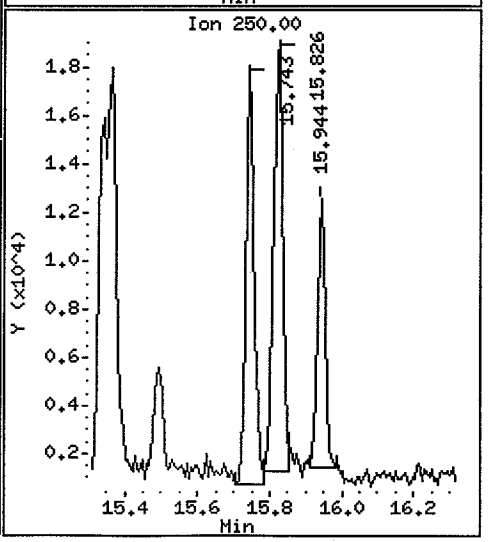












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

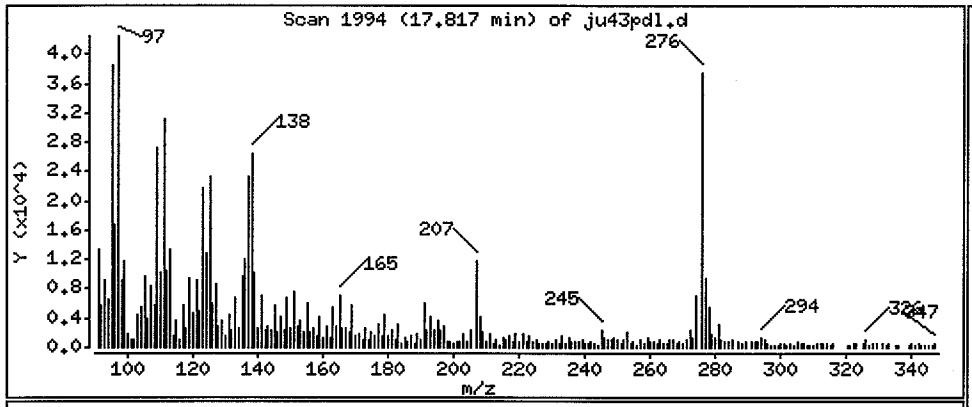
Operator: VTS

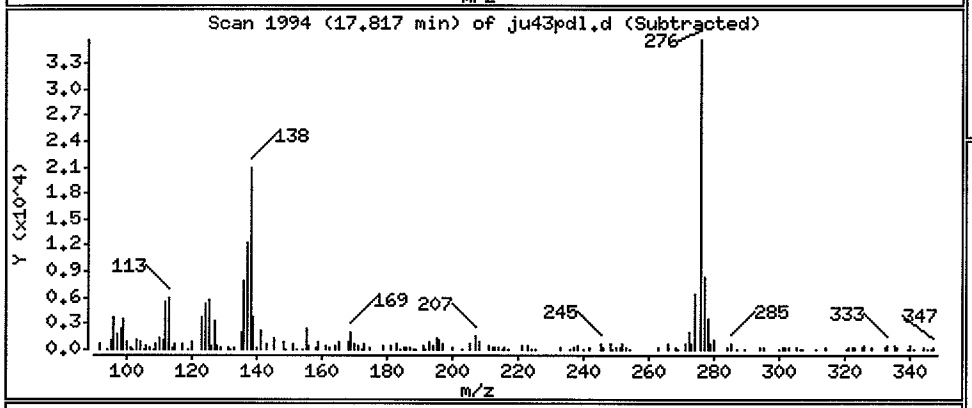
Column phase: ZB-5

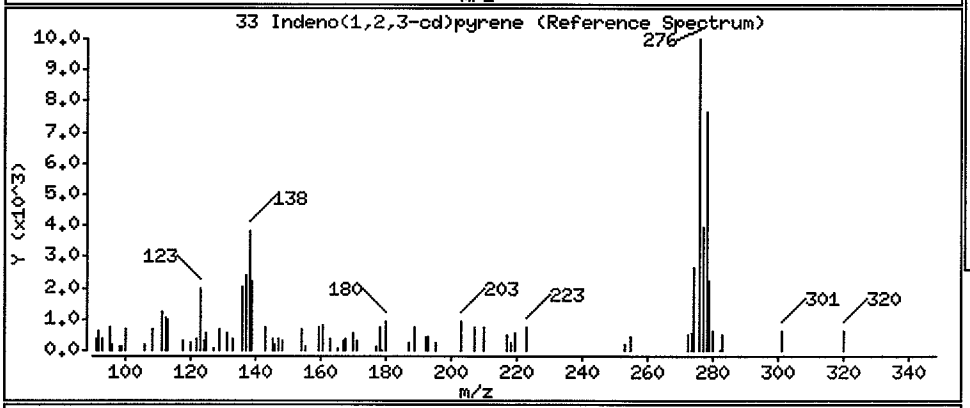
Column diameter: 0.25

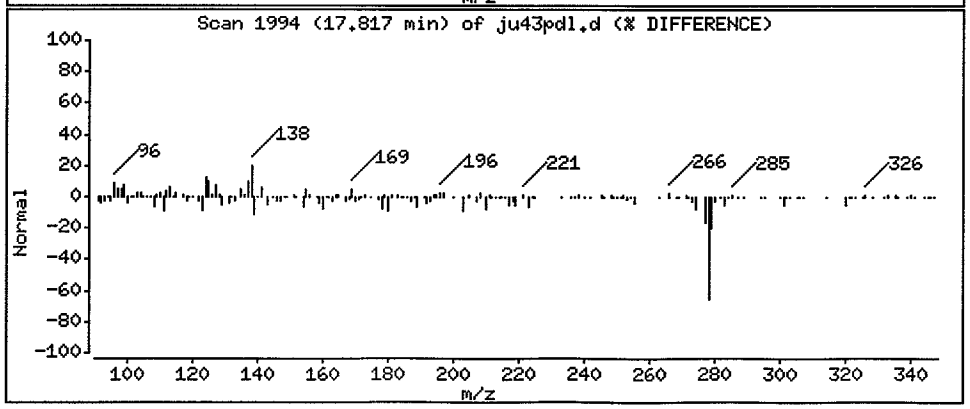
33 Indeno(1,2,3-cd)pyrene

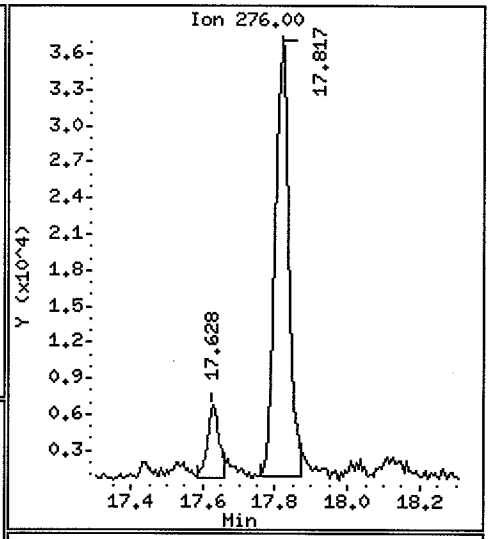
Concentration: 245.1 ug/kg

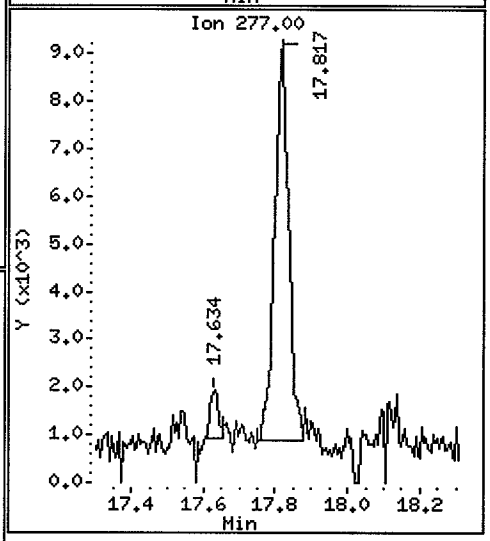












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

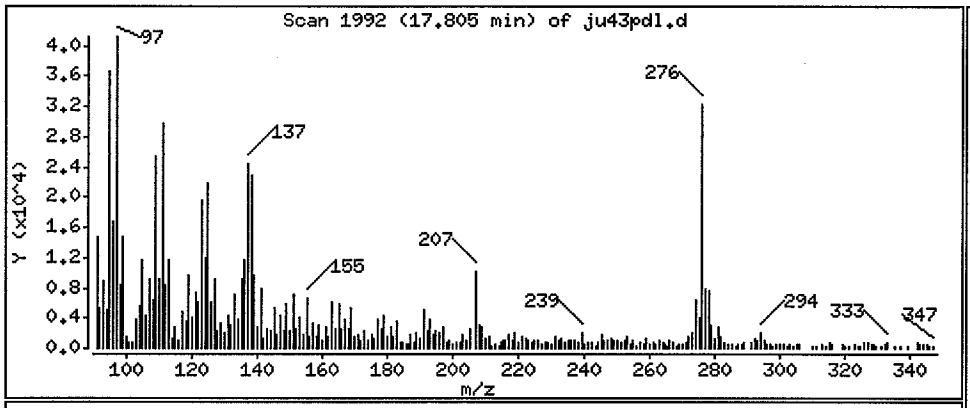
Operator: VTS

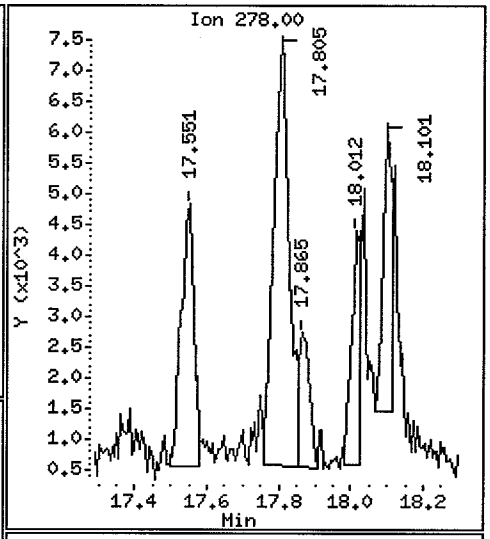
Column phase: ZB-5

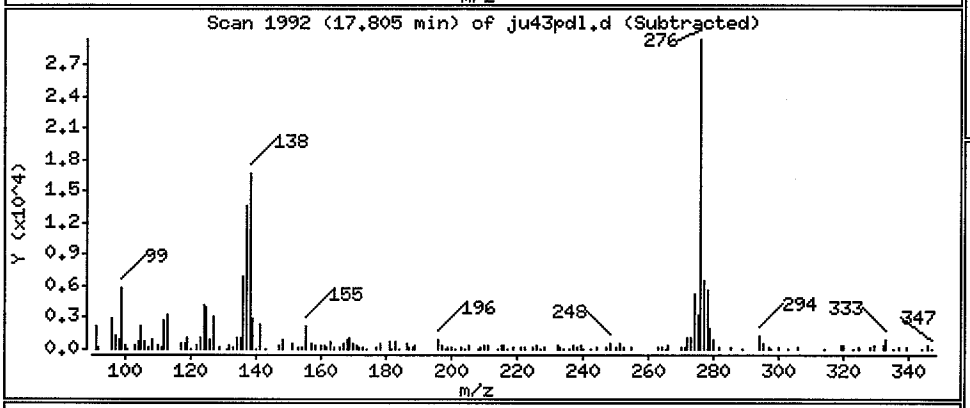
Column diameter: 0.25

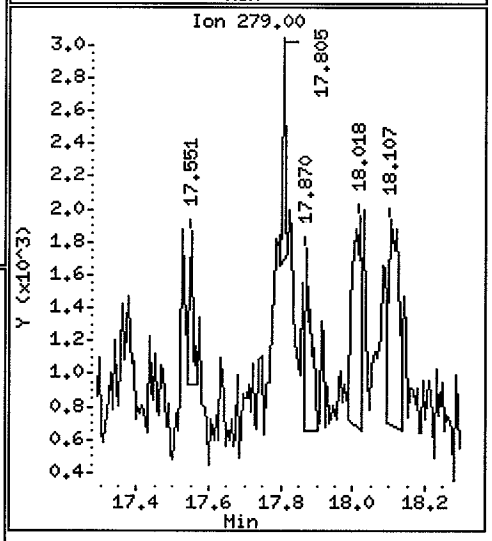
34 Dibenz(a,h)anthracene

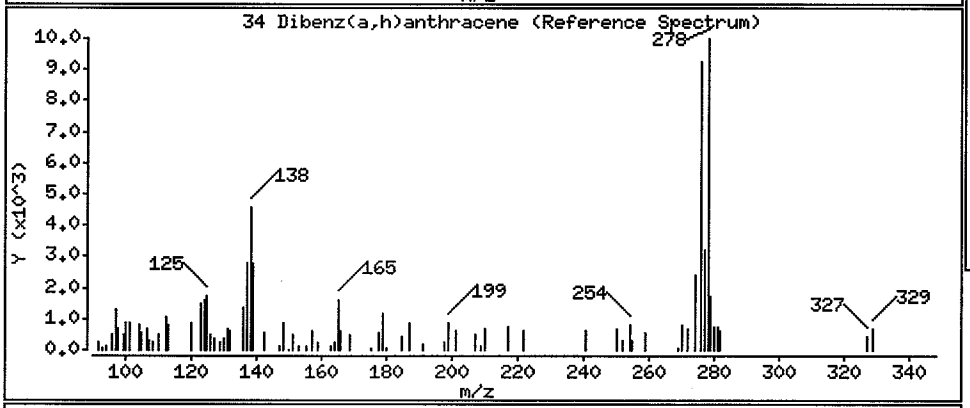
Concentration: 66.11 ug/kg

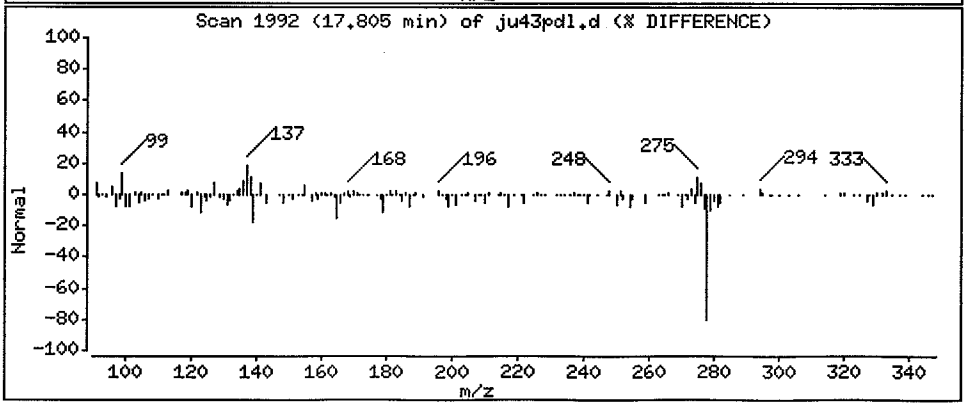












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

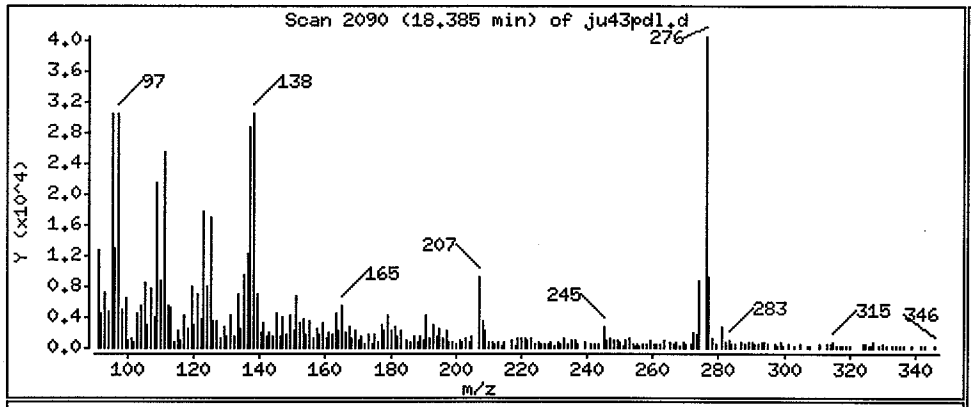
Operator: VTS

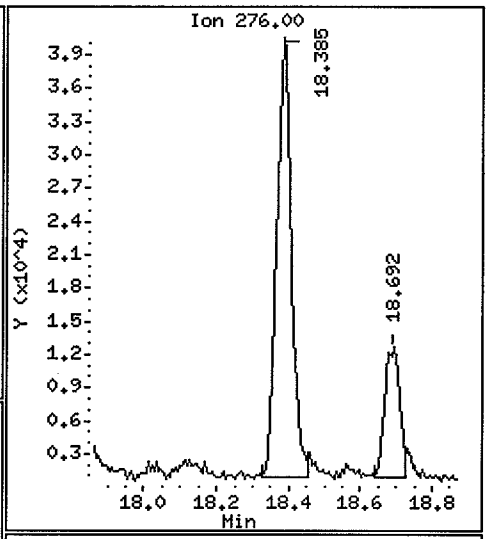
Column phase: ZB-5

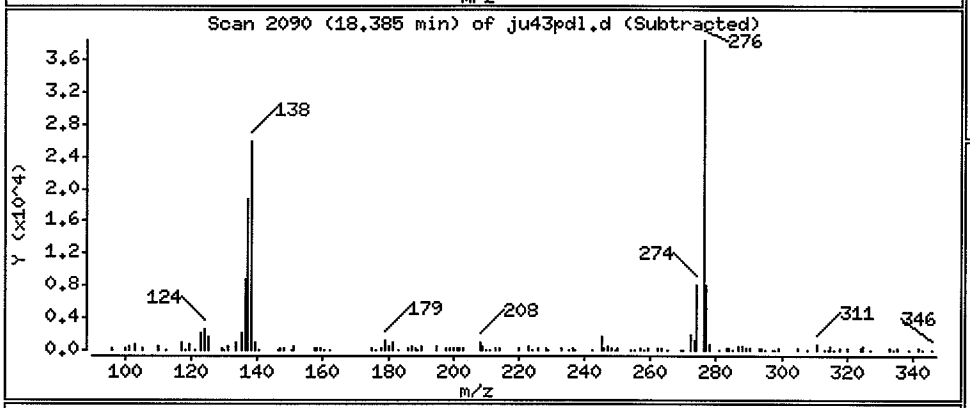
Column diameter: 0.25

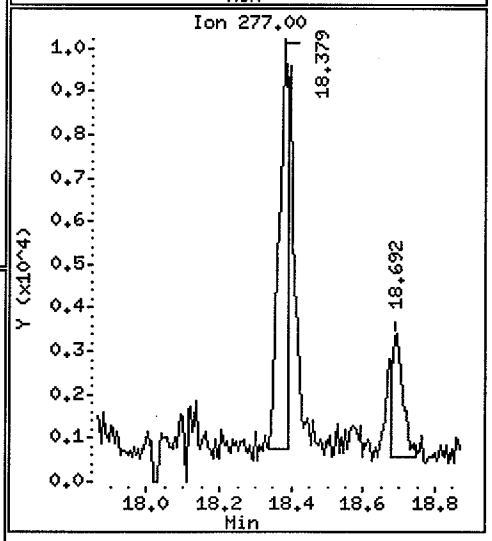
35 Benzo(g,h,i)perylene

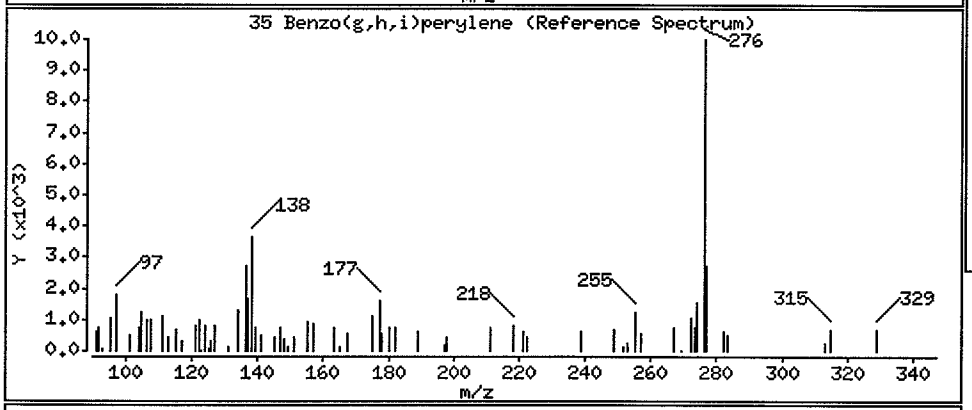
Concentration: 327.9 ug/kg

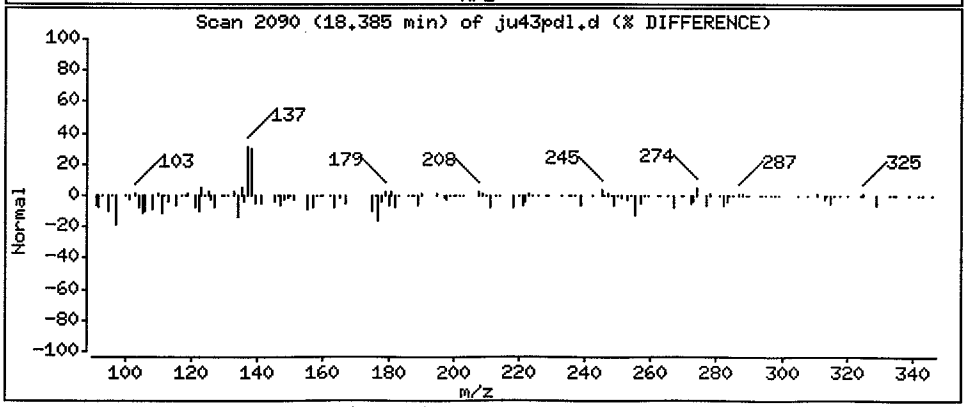












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

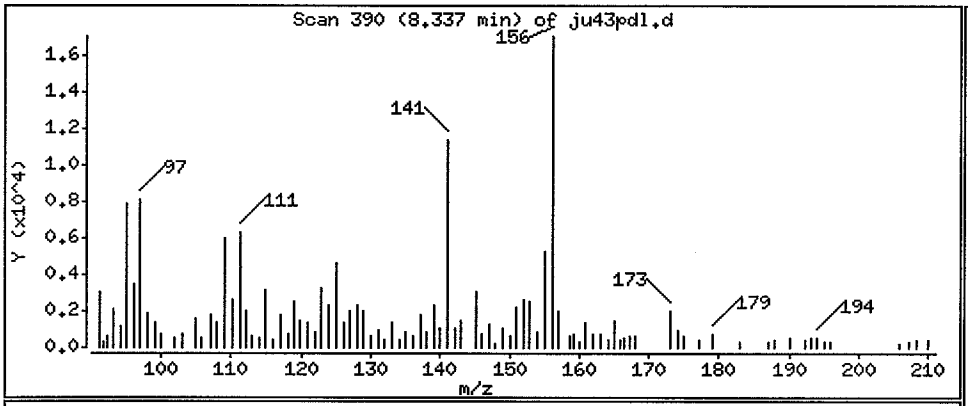
Operator: VTS

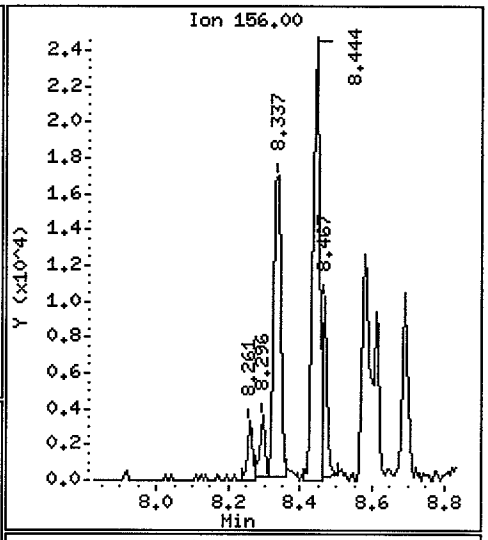
Column phase: ZB-5

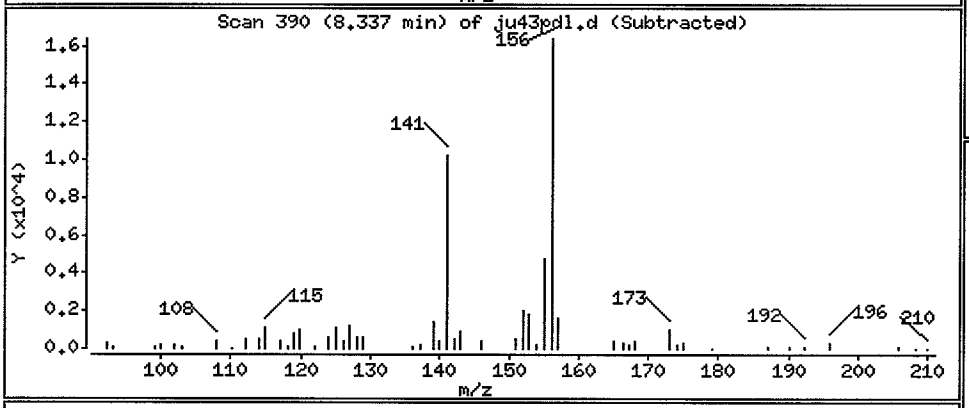
Column diameter: 0.25

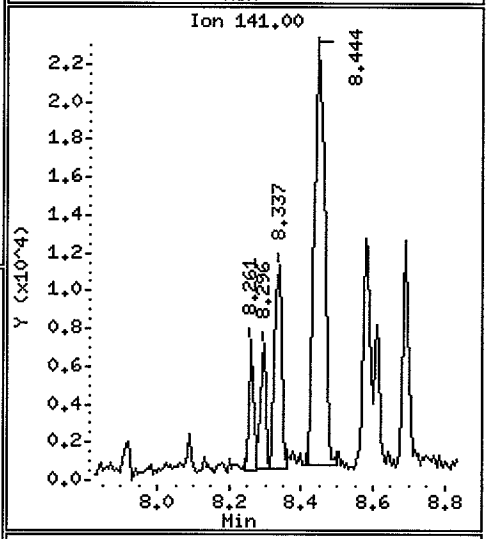
49 2,6-Dimethylnaphthalene

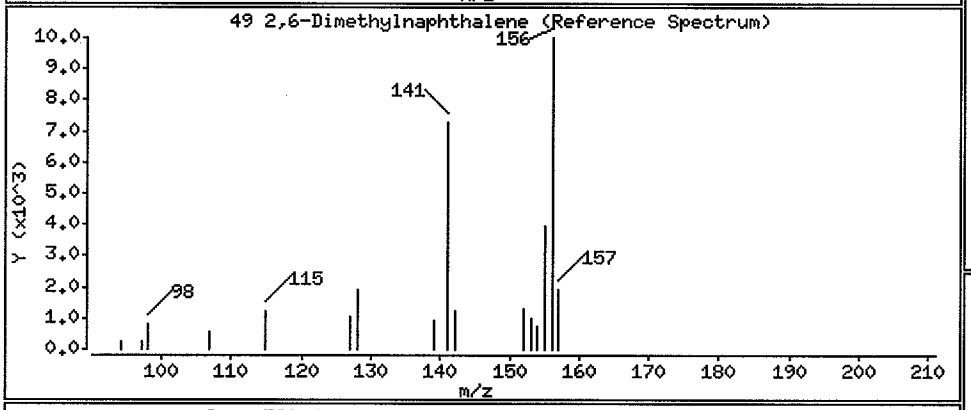
Concentration: 67.32 ug/kg

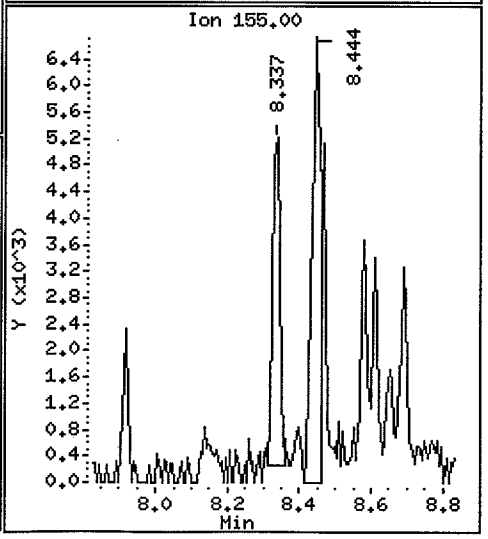


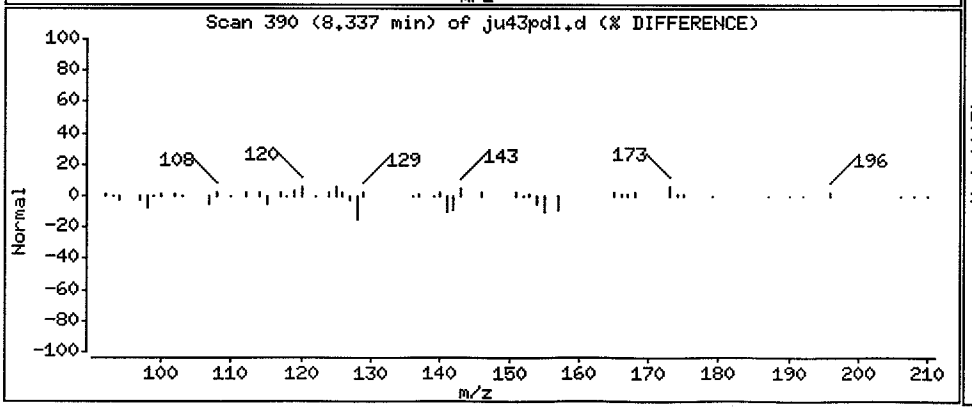












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

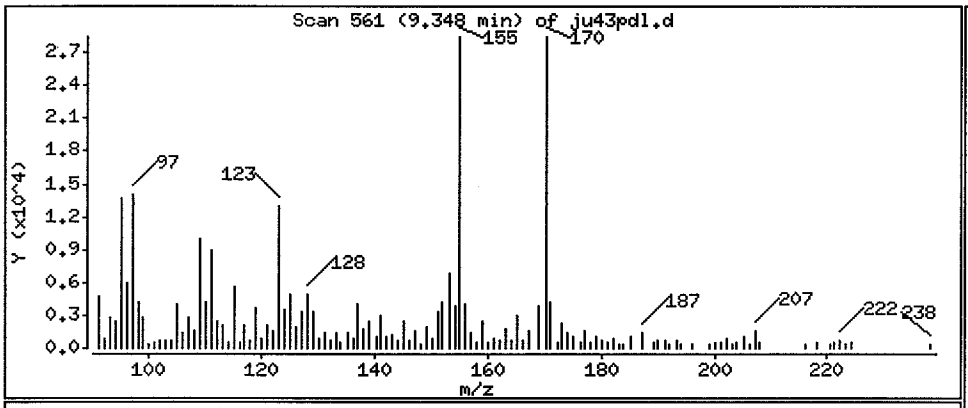
Operator: VTS

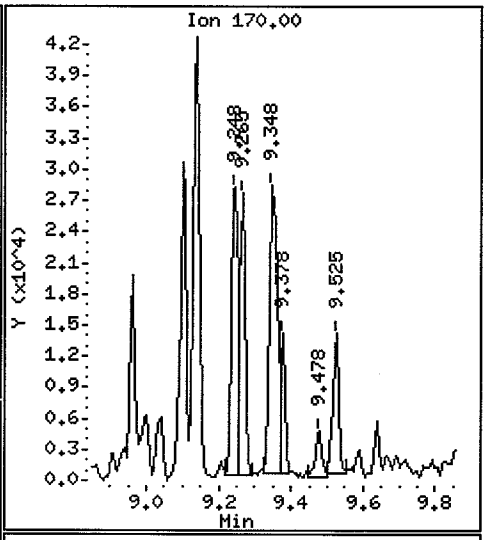
Column phase: ZB-5

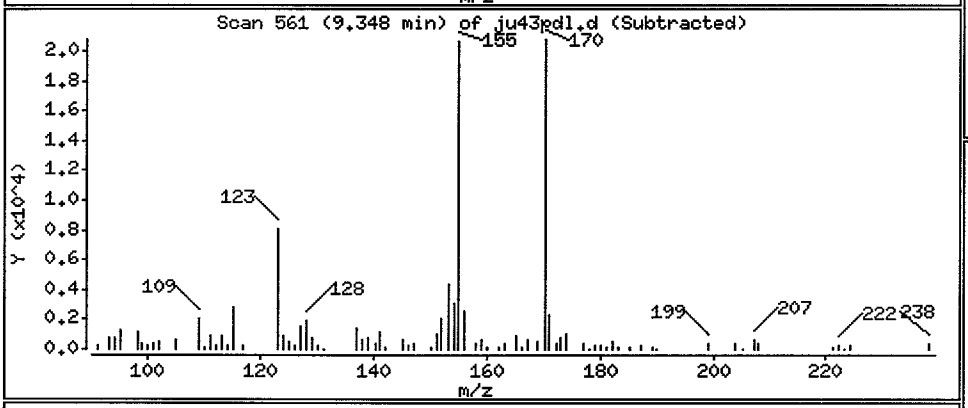
Column diameter: 0.25

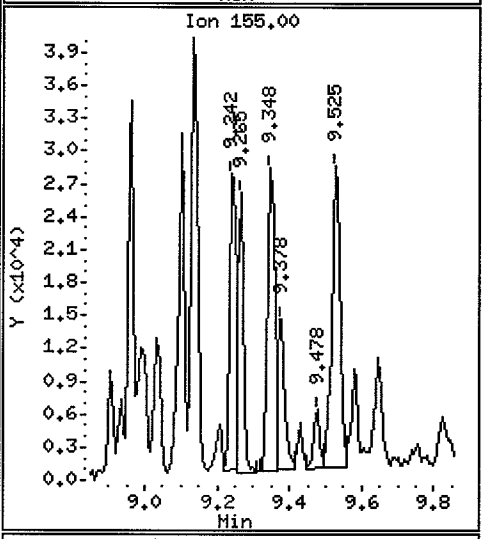
50 2,3,5-Trimethylnaphthalene

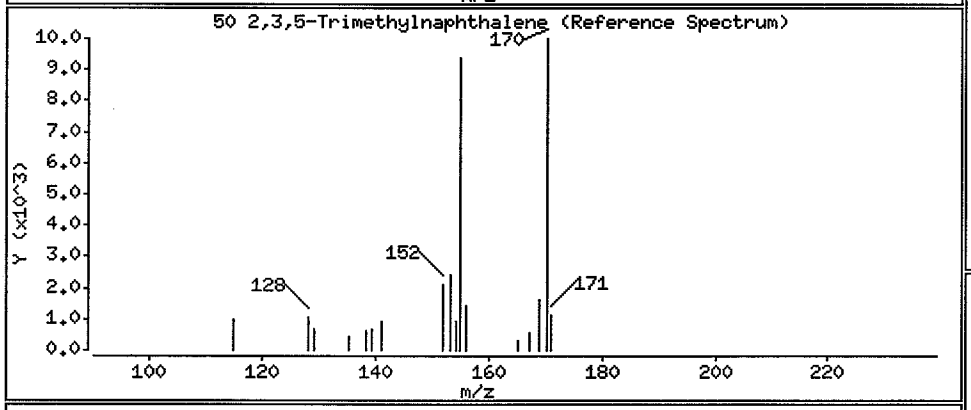
Concentration: 174.0 ug/kg

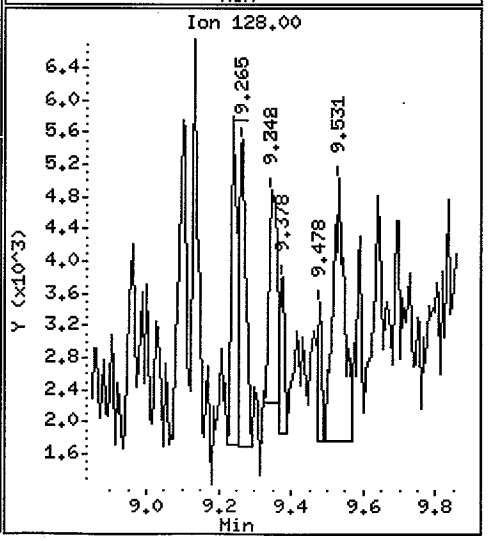


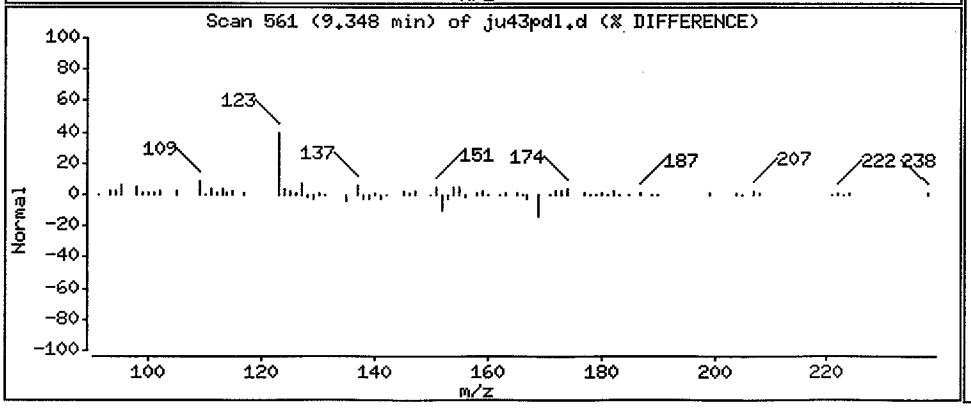












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

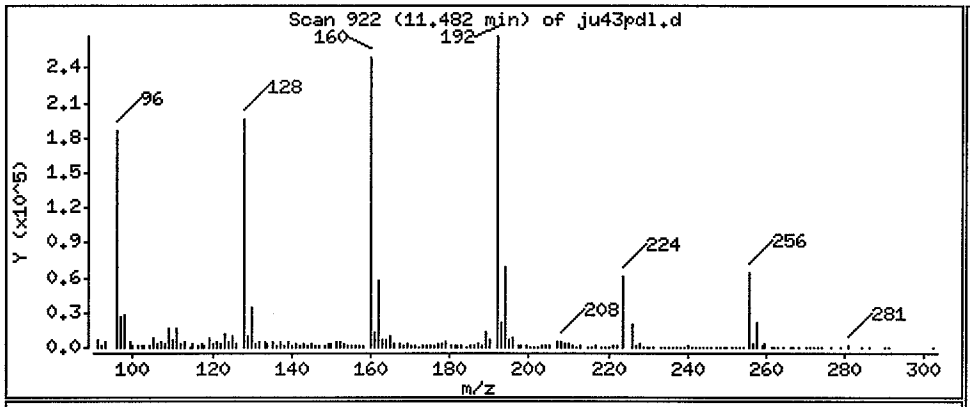
Operator: VTS

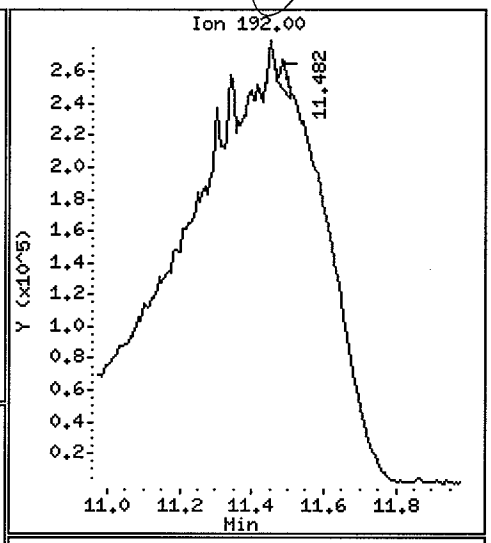
Column phase: ZB-5

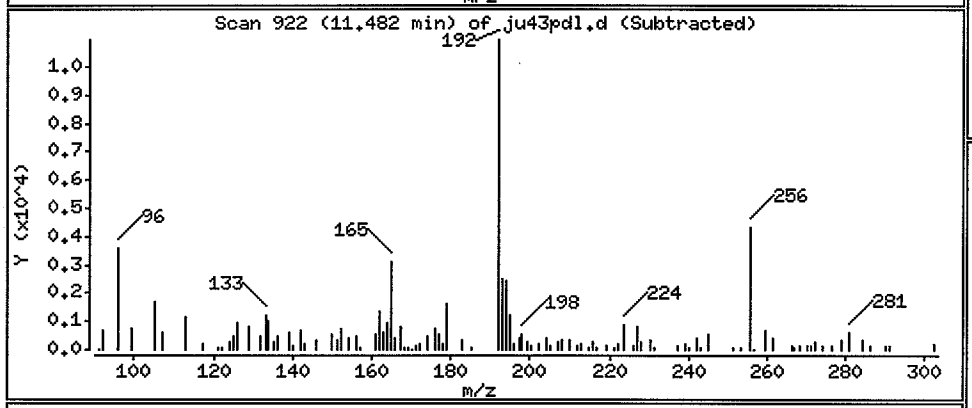
Column diameter: 0.25

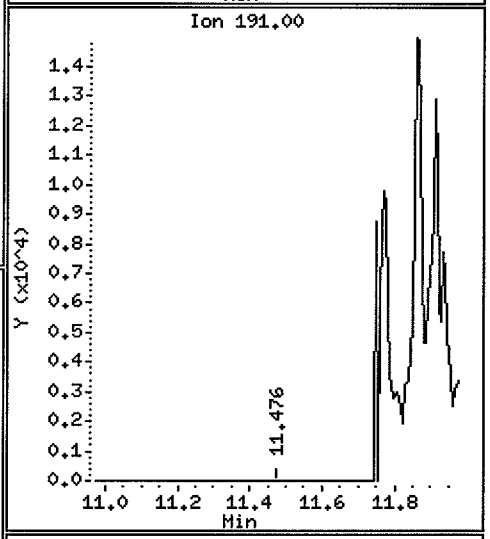
51 1-Methylphenanthrene

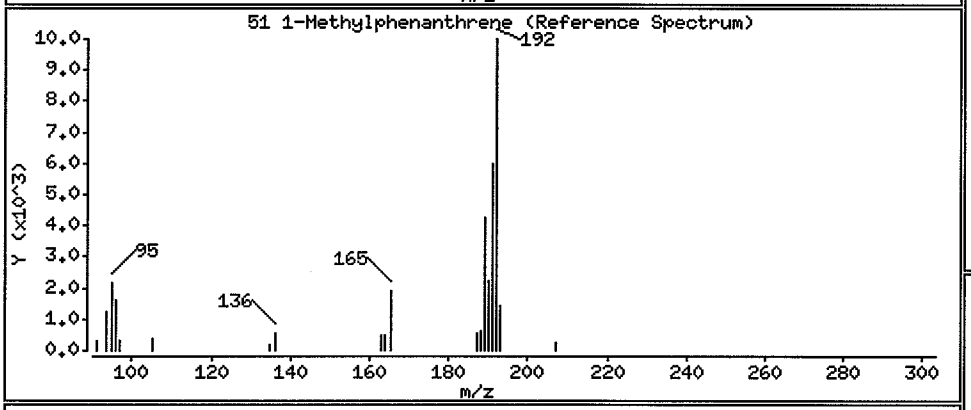
Concentration: 68.42 ug/kg

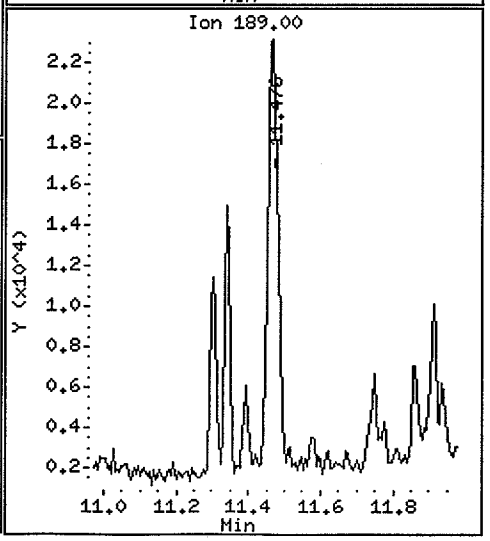


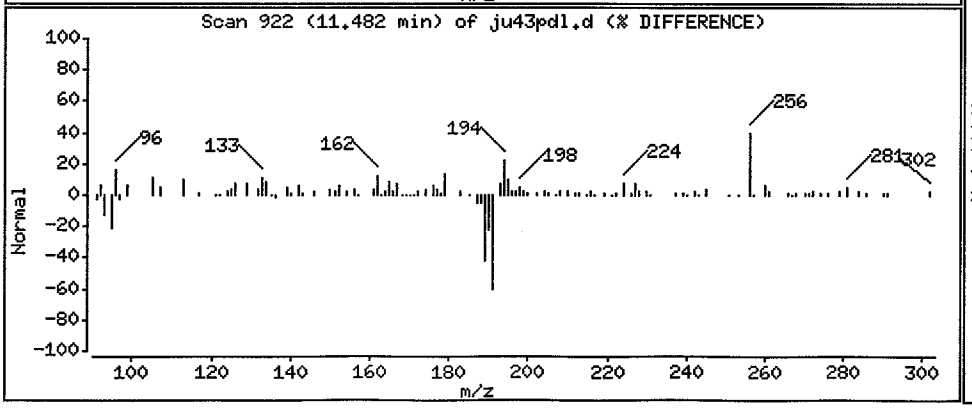












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

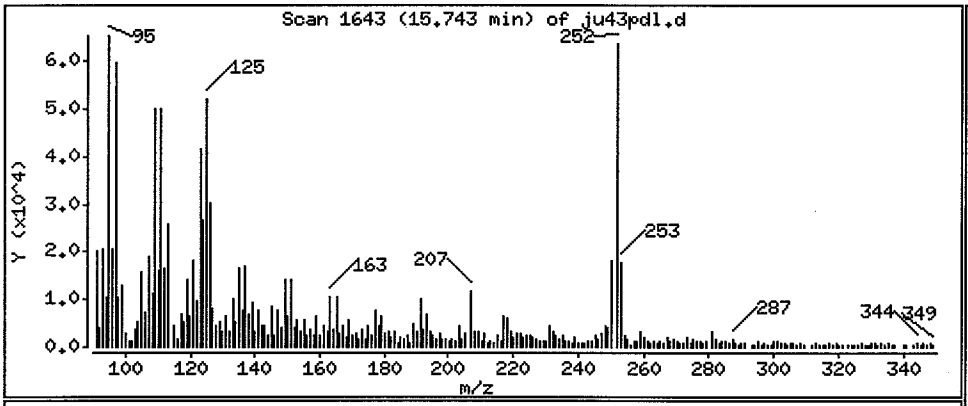
Operator: VTS

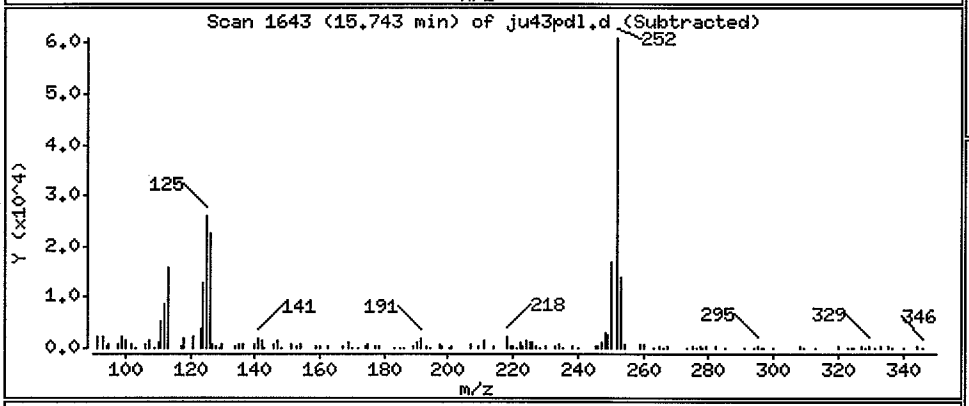
Column phase: ZB-5

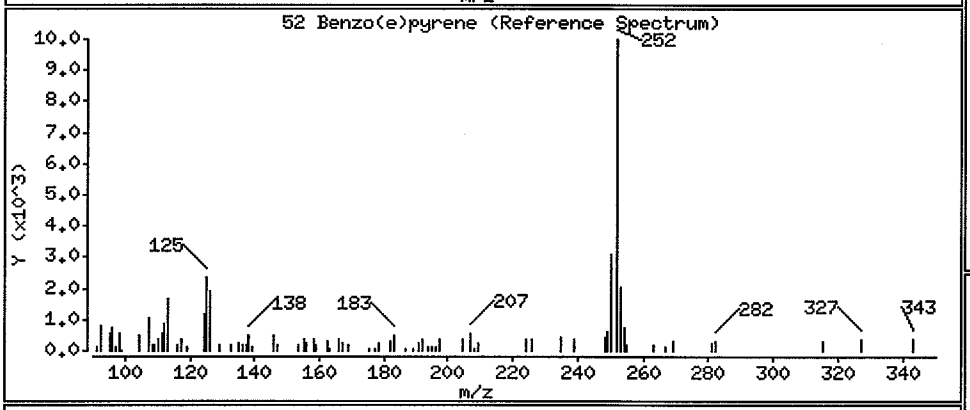
Column diameter: 0.25

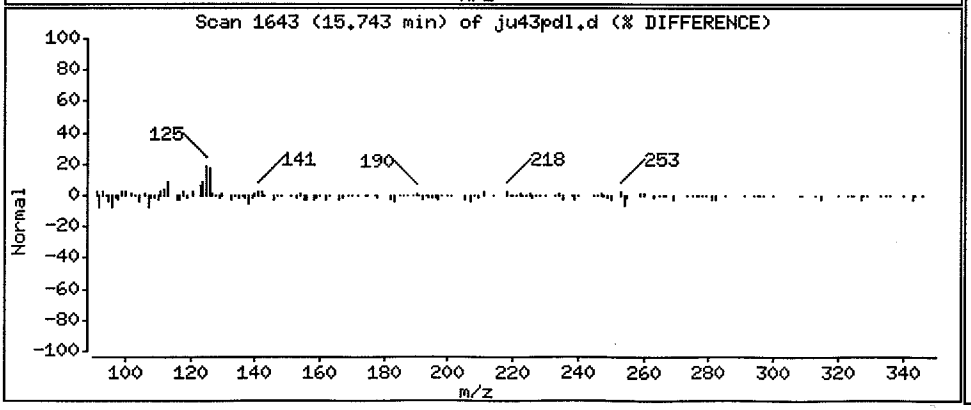
52 Benzo(e)pyrene

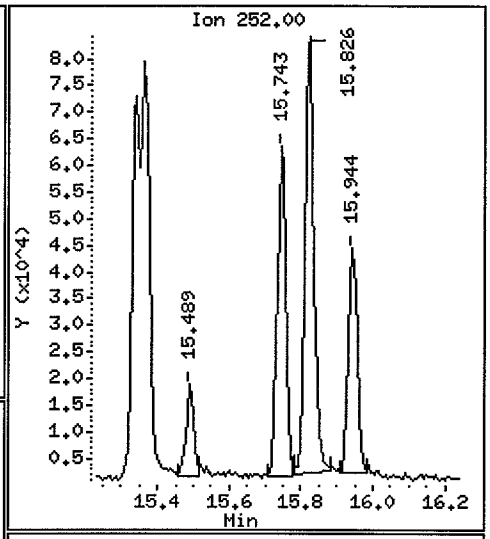
Concentration: 251.7 ug/kg

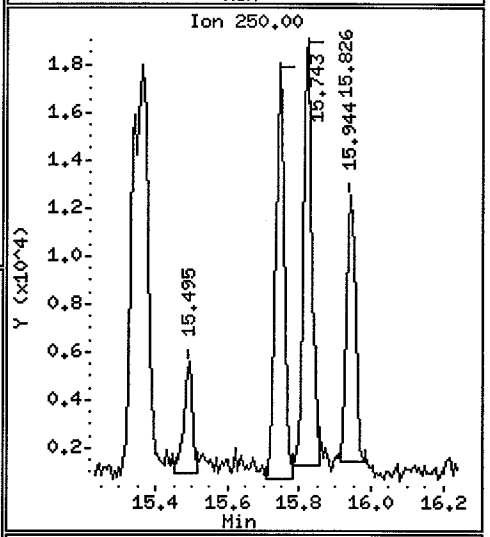


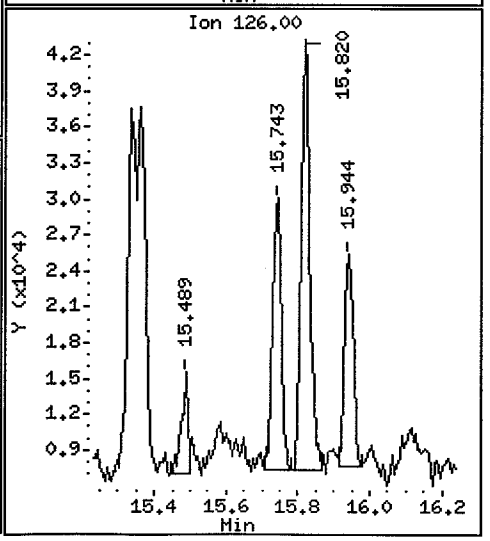












Data File: /chem3/nt1.i/20060914.b/ju43pdl.d

Date : 14-SEP-2006 09:51

Client ID: T4-S3-03-E

Instrument: nt1.i

Sample Info: JU43P,5

Volume Injected (uL): 1.0

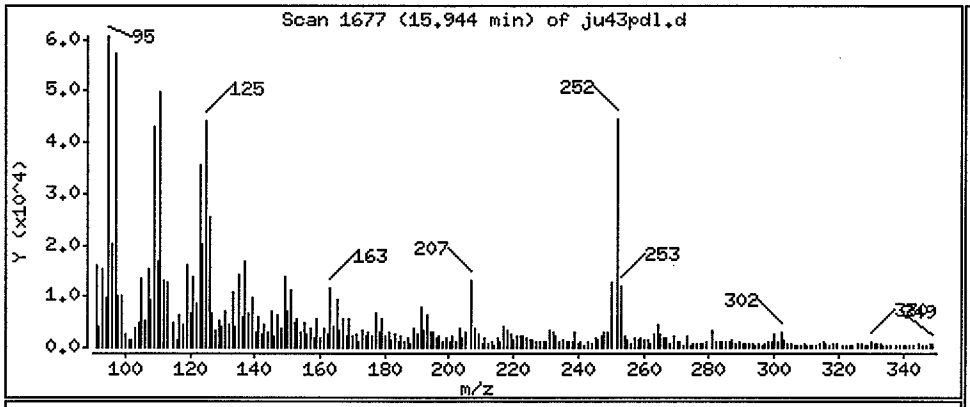
Operator: VTS

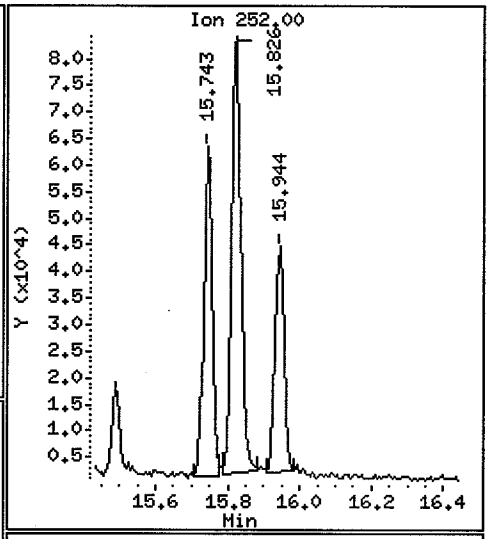
Column phase: ZB-5

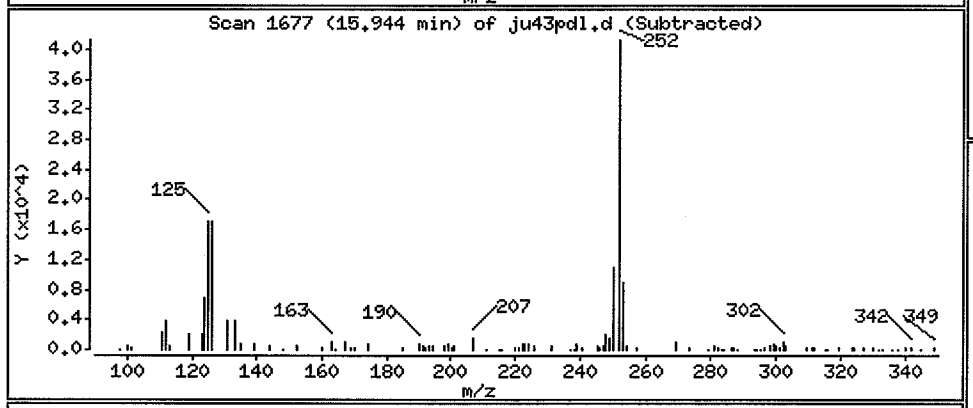
Column diameter: 0.25

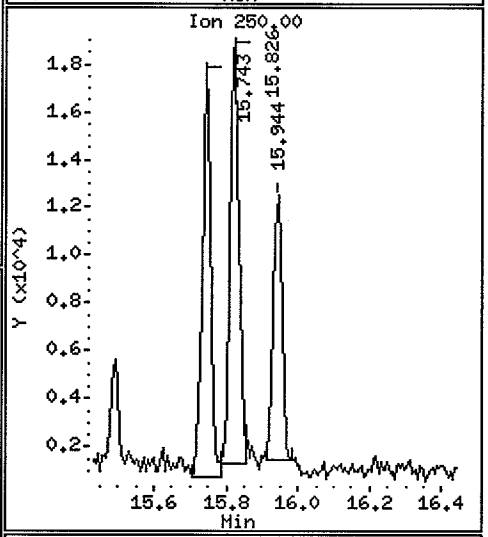
53 Perylene

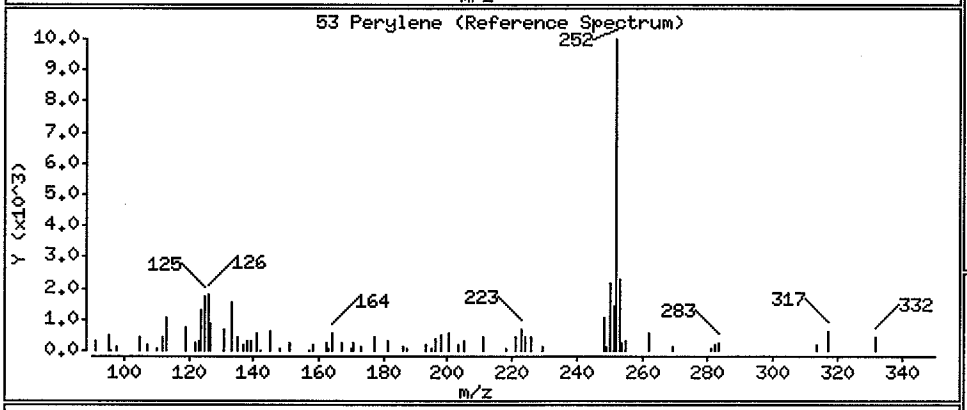
Concentration: 184.6 ug/kg

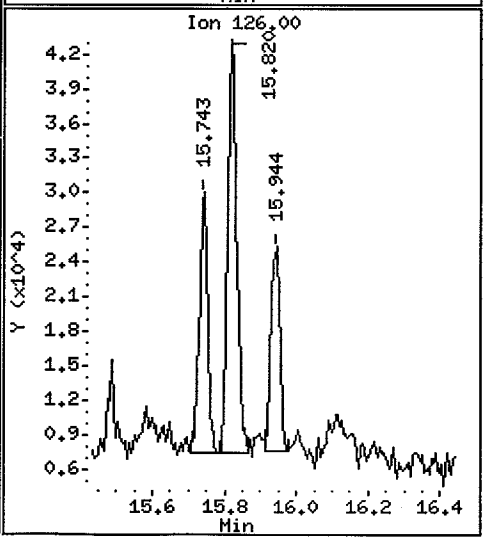


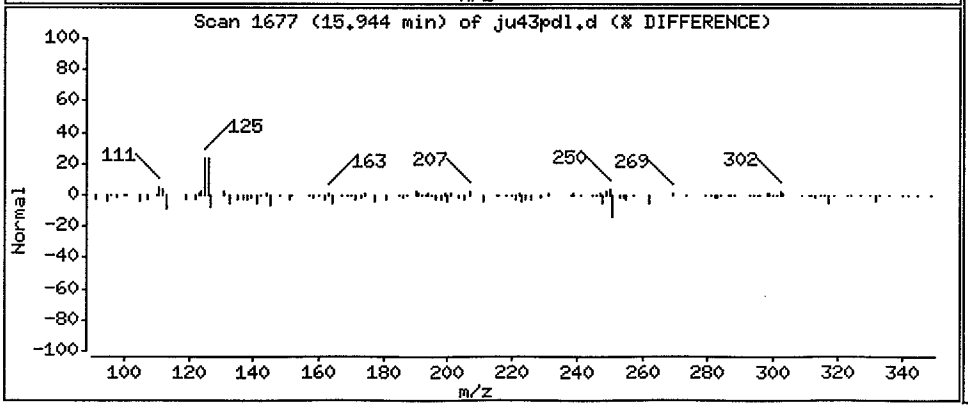












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-03-F**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43Q
LIMS ID: 06-15861
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 21:41
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 19.5%
pH: 5.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	24
91-57-6	2-Methylnaphthalene	5.0	15
90-12-0	1-Methylnaphthalene	5.0	6.9
208-96-8	Acenaphthylene	5.0	9.4
83-32-9	Acenaphthene	5.0	31
86-73-7	Fluorene	5.0	19
85-01-8	Phenanthrene	5.0	160
120-12-7	Anthracene	5.0	34
206-44-0	Fluoranthene	5.0	260
129-00-0	Pyrene	5.0	260
56-55-3	Benzo(a)anthracene	5.0	100
218-01-9	Chrysene	5.0	140
205-99-2	Benzo(b)fluoranthene	5.0	100
207-08-9	Benzo(k)fluoranthene	5.0	100
50-32-8	Benzo(a)pyrene	5.0	120
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	57
53-70-3	Dibenz(a,h)anthracene	5.0	18
191-24-2	Benzo(g,h,i)perylene	5.0	58
198-55-0	Perylene	5.0	67
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	16
832-69-9	1-Methylphenanthrene	28	< 28 Y
192-97-2	Benzo(e)pyrene	5.0	78
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	31

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.0%
d14-Dibenzo(a,h)anthracen	68.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43q.d
Lab Smp Id: JU43Q Client Smp ID: T4-S3-03-F
Inj Date : 12-SEP-2006 21:41
Operator : VTS Inst ID: nt1.i
Smp Info : JU43Q
Misc Info : 06-15861
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.50000	Weight of sample extracted (g)
M	19.50000	% 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	6.809	6.808	(1.000)	358740	2.00000		
	2 Naphthalene	128	6.832	6.832	(1.003)	83786	0.48613	24.16	
$	3 2-Methylnaphthalene-d10	152	7.565	7.564	(1.111)	216158	2.42995	120.7	
	4 2-Methylnaphthalene	142	7.607	7.600	(1.117)	28308	0.30903	15.36	
	5 1-Methylnaphthalene	142	7.737	7.730	(1.136)	13664	0.13746	6.830	
	7 Acenaphthylene	152	8.688	8.687	(0.979)	27613	0.19227	9.554	
*	8 Acenaphthene-d10	164	8.871	8.871	(1.000)	174809	2.00000		
	9 Acenaphthene	153	8.907	8.906	(1.004)	53358	0.61515	30.57	
	10 Dibenzofuran	168	9.096	9.095	(1.025)	24589	~~0.19947~~	9.911	NR
	11 Fluorene	166	9.522	9.521	(1.073)	36163	0.38427	19.09	
*	15 Phenanthrene-d10	188	10.680	10.679	(1.000)	221835	2.00000		
	16 Phenanthrene	178	10.710	10.709	(1.003)	394089	3.27726	162.8	
	17 Anthracene	178	10.769	10.762	(1.008)	82543	0.68061	33.82	
	19 Fluoranthene	202	12.217	12.198	(1.144)	540842	5.26919	261.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.500	12.488	(0.893)	630949	5.29612	263.2
	22 Benzo(a)anthracene	228	13.972	13.965	(0.998)	209136	2.06077	102.4
*	23 Chrysene-d12	240	13.996	13.989	(1.000)	169272	2.00000	
	24 Chrysene	228	14.025	14.018	(1.002)	276414	2.89848	144.0
	28 Benzo(b)fluoranthene	252	15.349	15.336	(0.965)	194072	2.08281	103.5
	29 Benzo(k)fluoranthene	252	15.373	15.366	(0.966)	196385	2.01804	100.3
	30 Benzo(a)pyrene	252	15.828	15.821	(0.995)	204376	2.43184	120.8
*	31 Perylene-d12	264	15.910	15.898	(1.000)	164544	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.825	17.813	(1.120)	103428	1.14638	56.96
$	32 Dibenz(a,h)anthrancene-d14	292	17.748	17.736	(1.116)	110147	2.04276	101.5
	34 Dibenz(a,h)anthracene	278	17.819	17.807	(1.120)	26751	0.36583	18.18
	35 Benzo(g,h,i)perylene	276	18.399	18.380	(1.156)	93826	1.17673	58.47
	48 Biphenyl	154	8.145	8.138	(0.918)	7480	0.06900	3.429
	49 2,6-Dimethylnaphthalene	156	8.334	8.333	(0.939)	27067	0.33054	16.42
	50 2,3,5-Trimethylnaphthalene	170	9.350	9.355	(1.054)	40475	0.62572	31.09
	51 1-Methylphenanthrene	192	11.348	11.477	(0.811)	44845	0.56129	27.89(M)
	52 Benzo(e)pyrene	252	15.751	15.744	(0.990)	147035	1.57044	78.03
	53 Perylene	252	15.952	15.939	(1.003)	117849	1.34895	67.03

QC Flag Legend

M - Compound response manually integrated.

VTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43q.d
Lab Smp Id: JU43Q
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15861

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-03-F
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	358740	5.03
8 Acenaphthene-d10	169375	84688	338750	174809	3.21
15 Phenanthrene-d10	232185	116092	464370	221835	-4.46
23 Chrysene-d12	179856	89928	359712	169272	-5.88
31 Perylene-d12	175373	87686	350746	164544	-6.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.01
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.01
23 Chrysene-d12	13.99	13.49	14.49	14.00	0.05
31 Perylene-d12	15.90	15.40	16.40	15.91	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

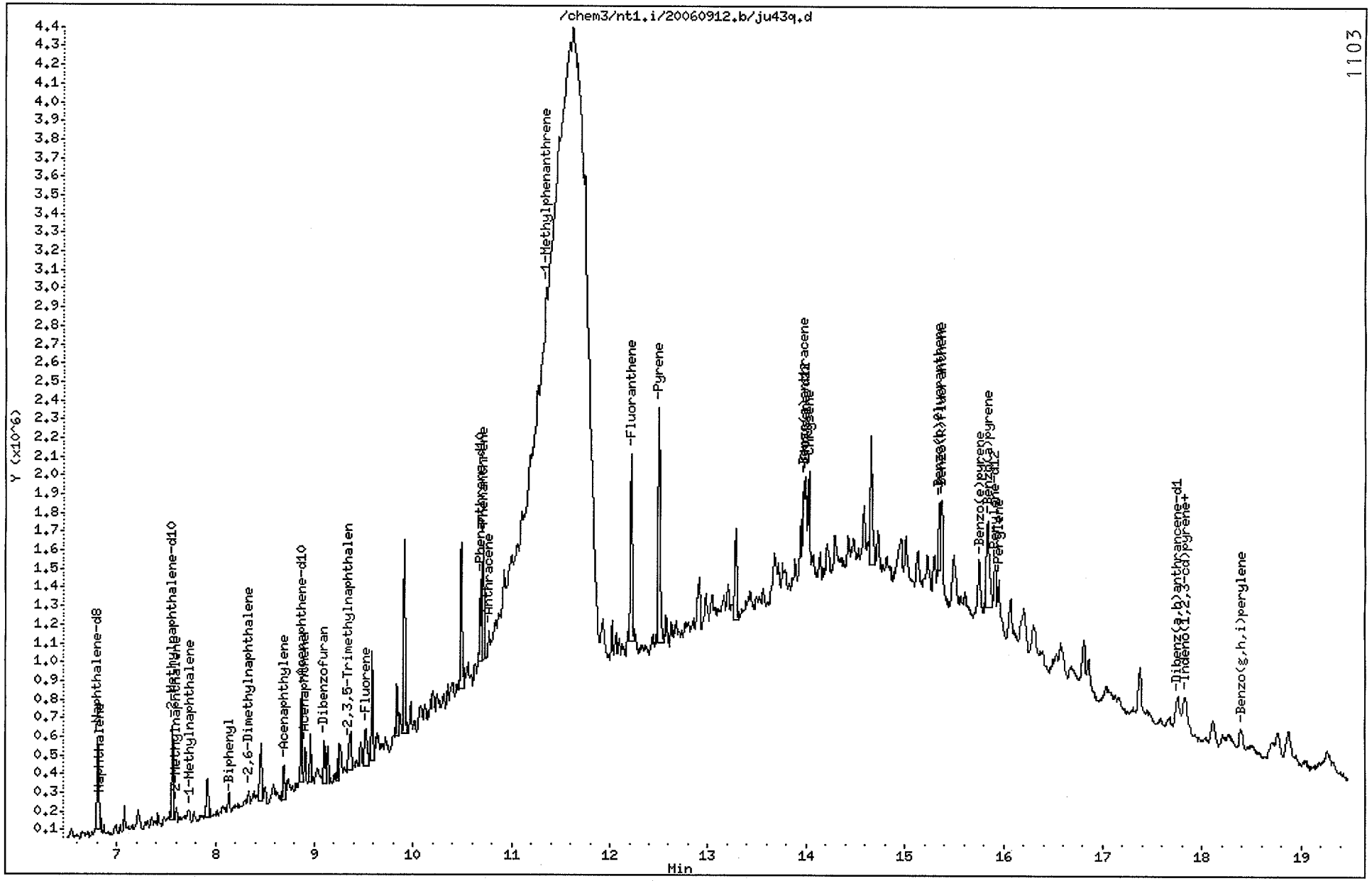
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43Q
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15861

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-03-F
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	149.1	120.7	81.00	32-97
$ 32 Dibenz(a,h)anthran	149.1	101.5	68.09	21-105

Data File: /chem3/nt1.i/20060912.b/ju43q.d
Date : 12-SEP-2006 21:41
Client ID: T4-S3-03-F
Sample Info: JU43Q
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

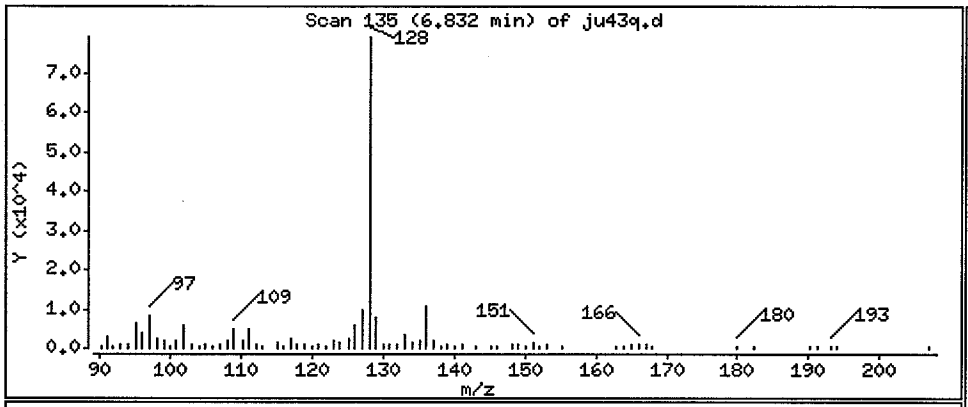
Operator: VTS

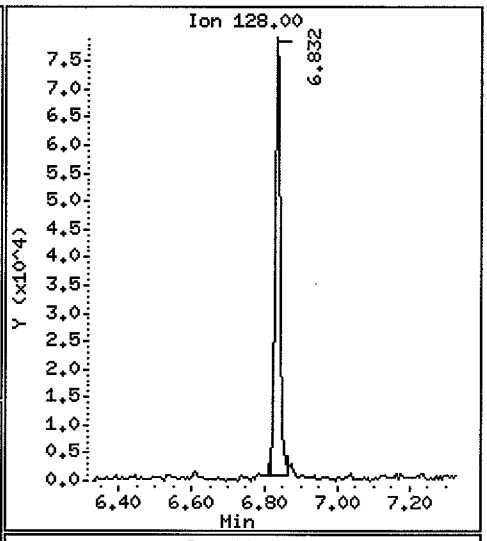
Column phase: ZB-5

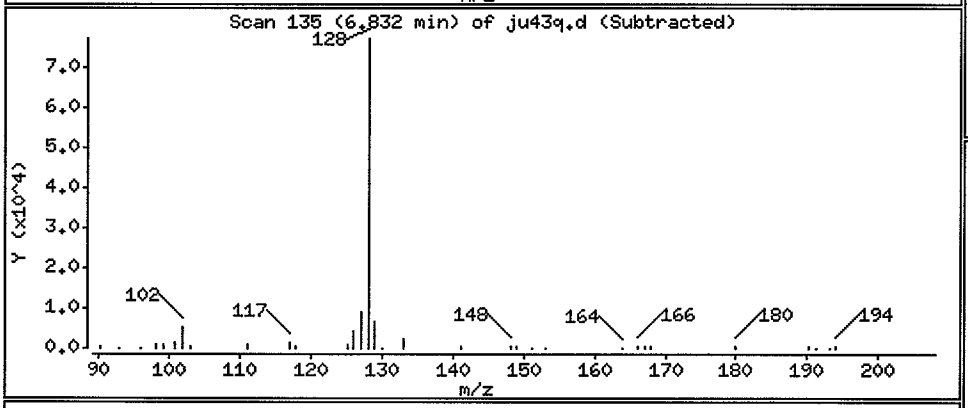
Column diameter: 0.25

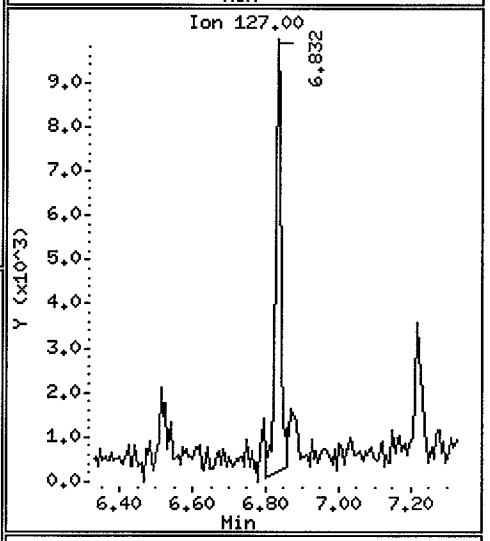
2 Naphthalene

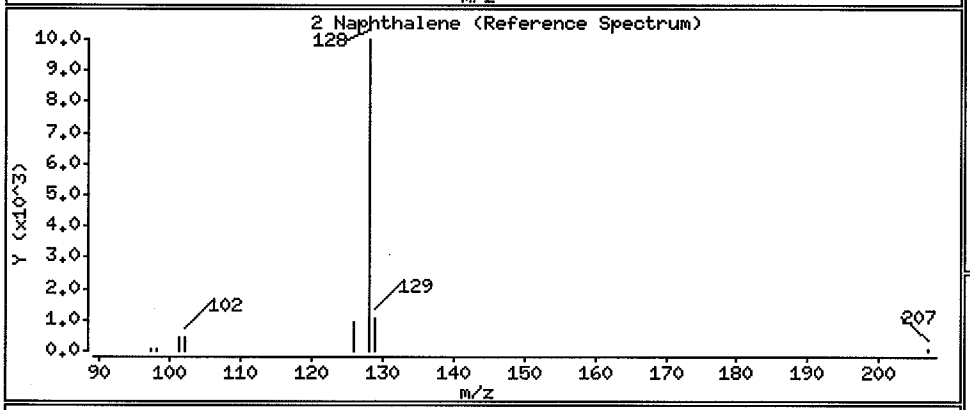
Concentration: 24.16 ug/kg

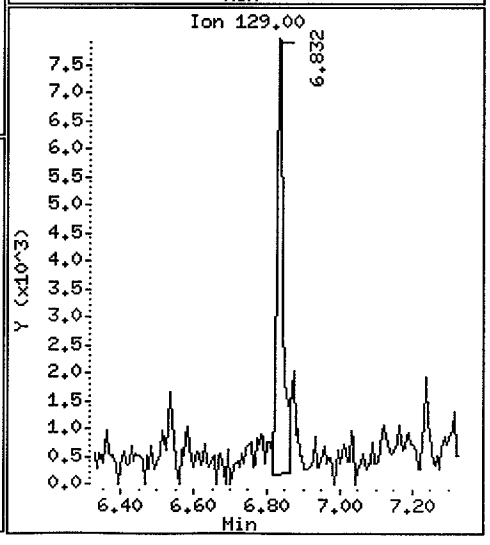


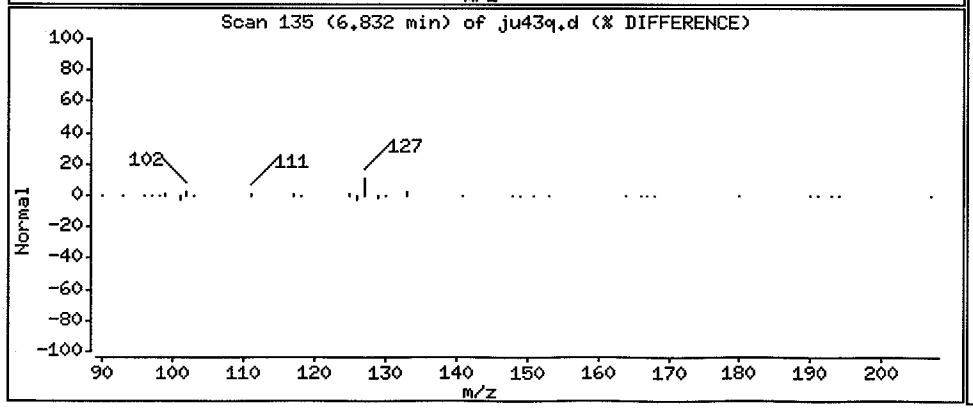












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

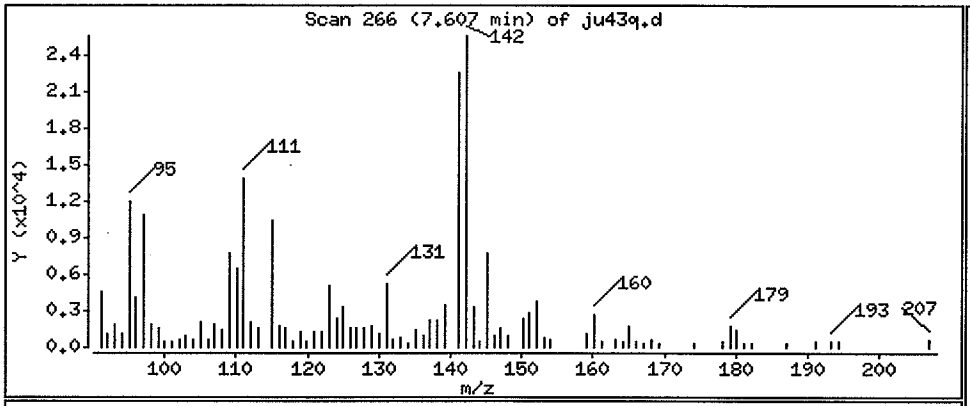
Operator: VTS

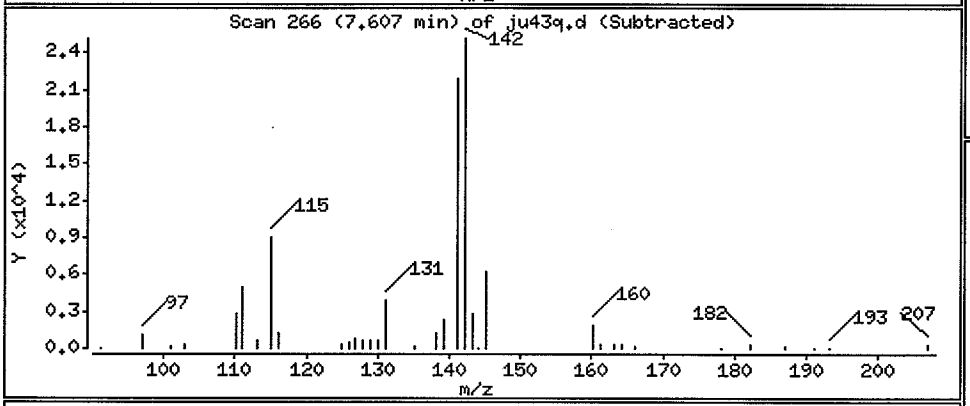
Column phase: ZB-5

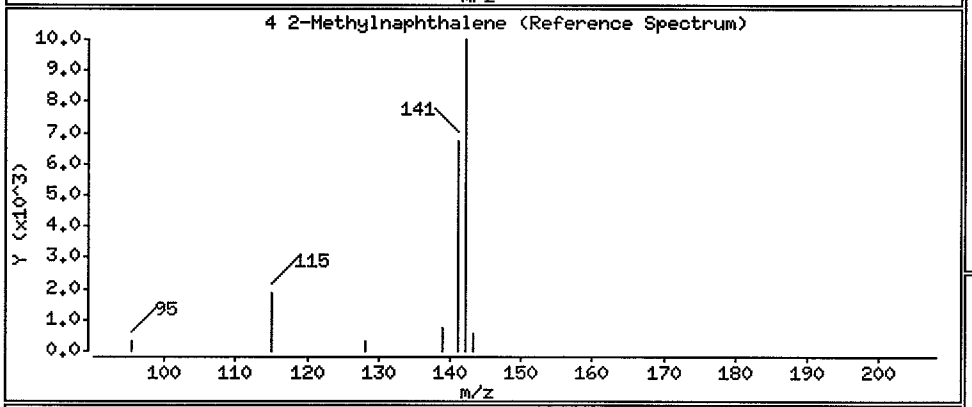
Column diameter: 0.25

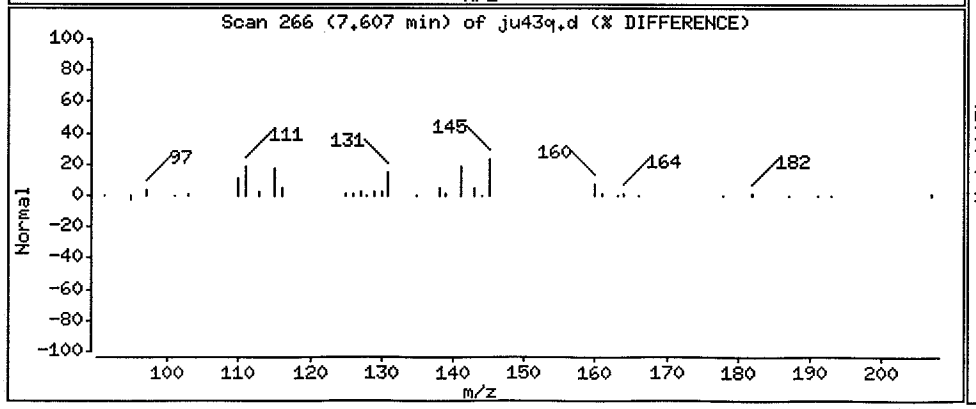
4 2-Methylnaphthalene

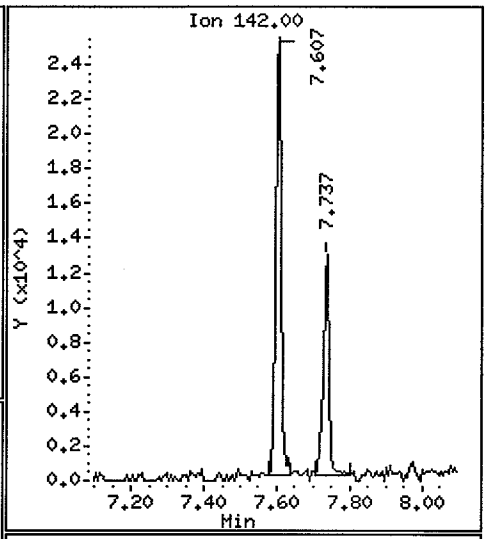
Concentration: 15.36 ug/kg

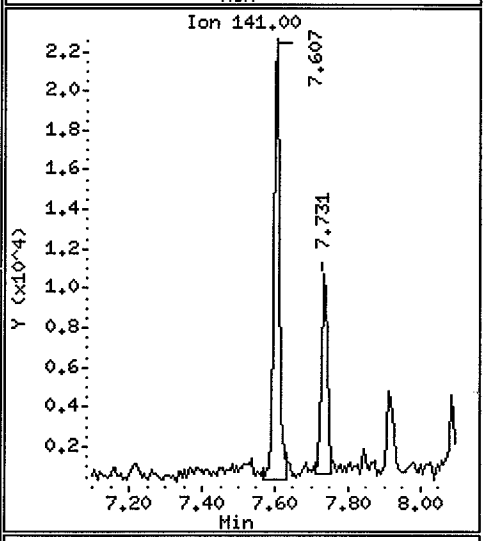


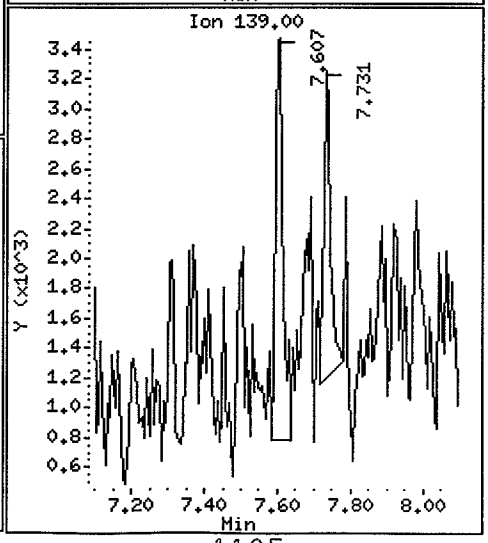












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

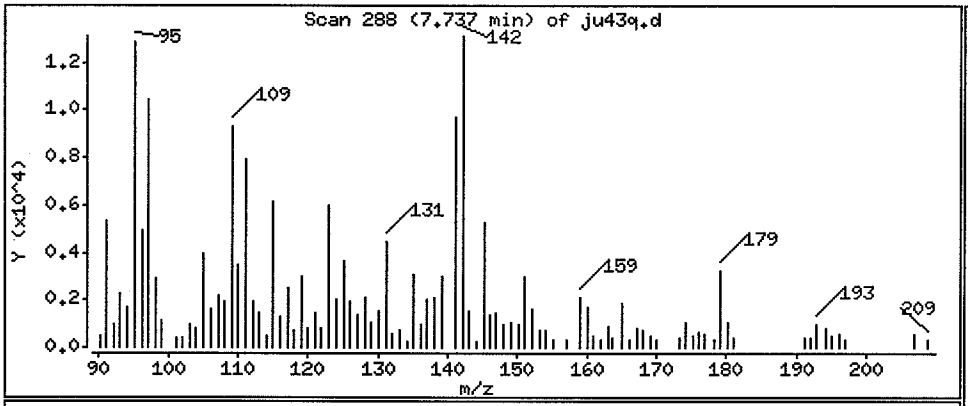
Operator: VTS

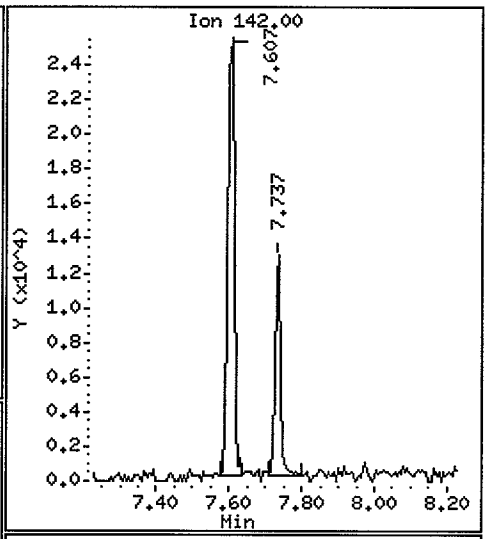
Column phase: ZB-5

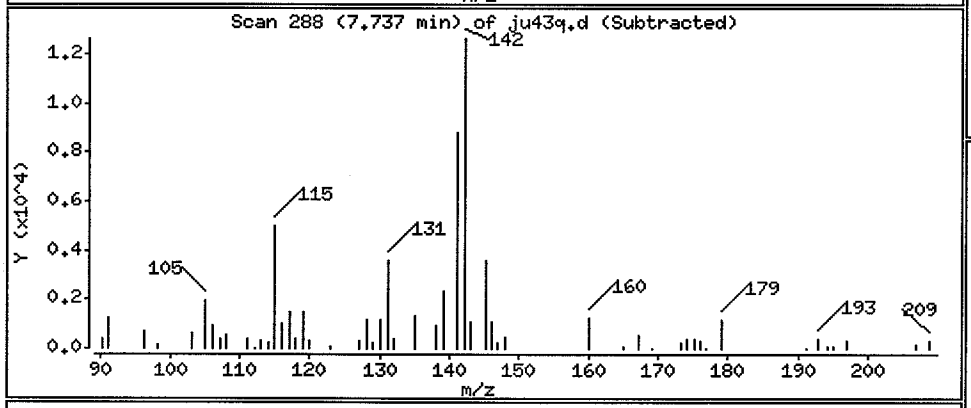
Column diameter: 0.25

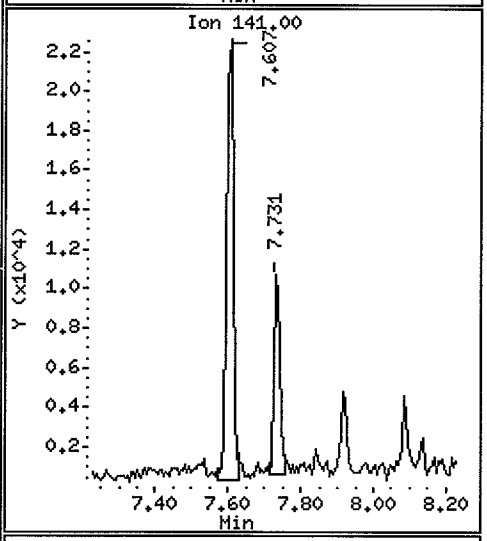
5 1-Methylnaphthalene

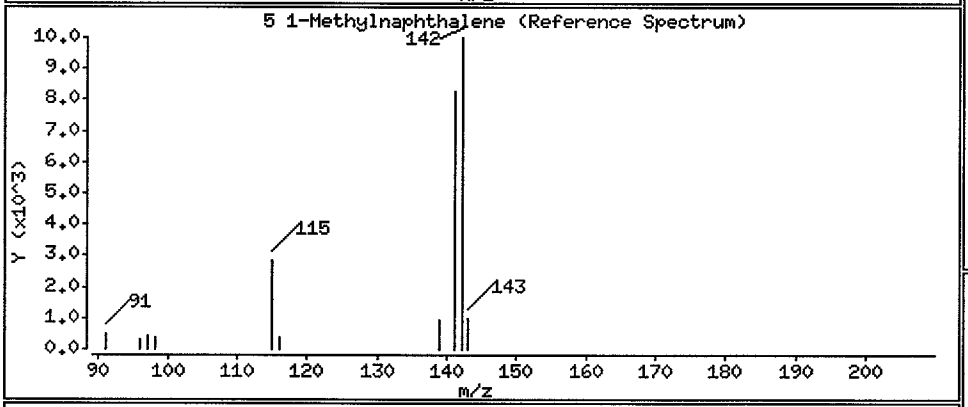
Concentration: 6.830 ug/kg

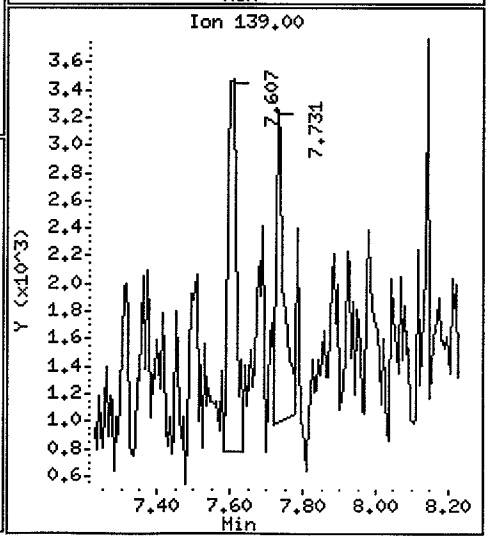


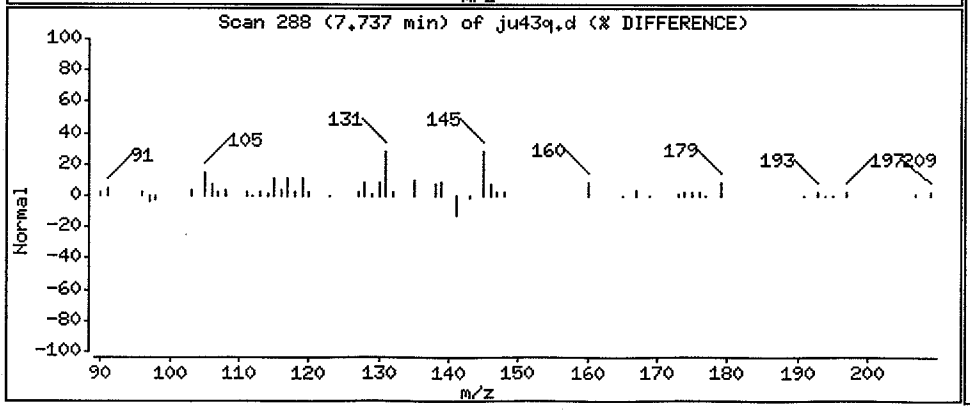












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

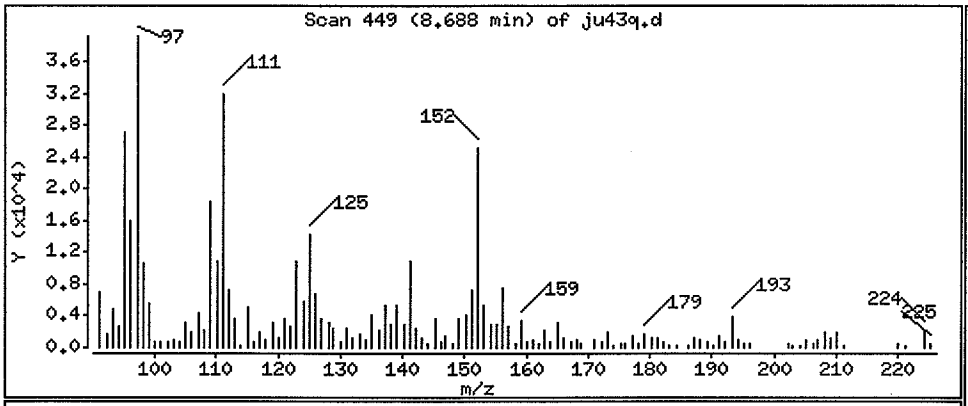
Operator: VTS

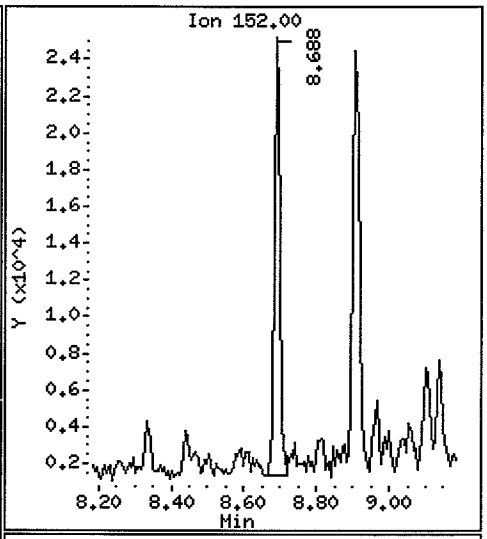
Column phase: ZB-5

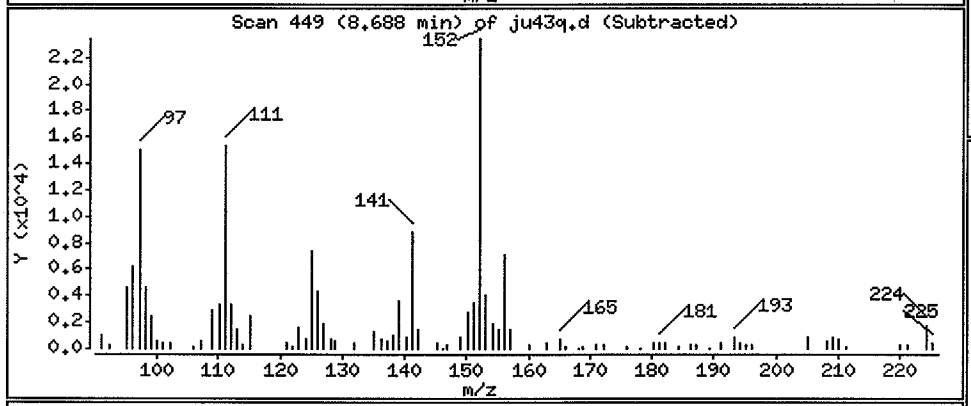
Column diameter: 0.25

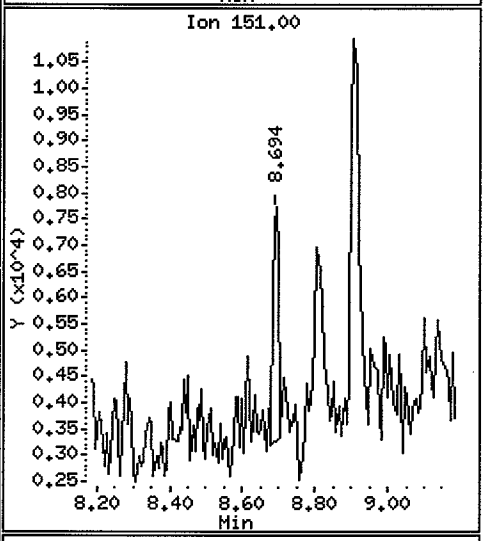
7 Acenaphthylene

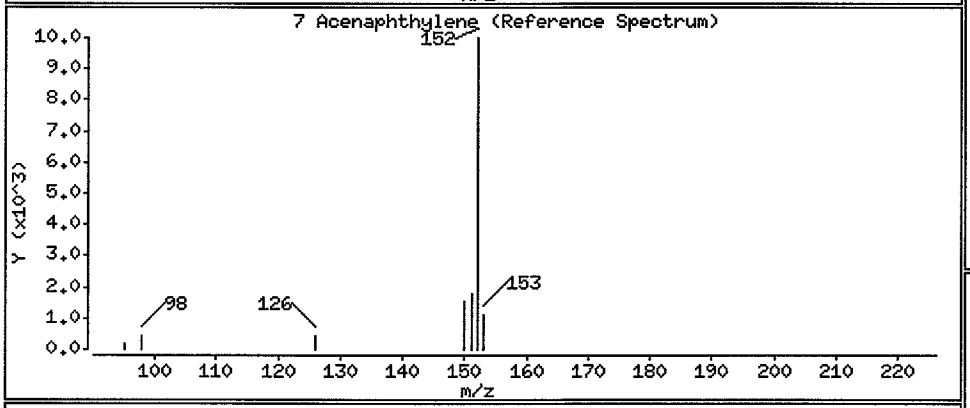
Concentration: 9.554 ug/kg

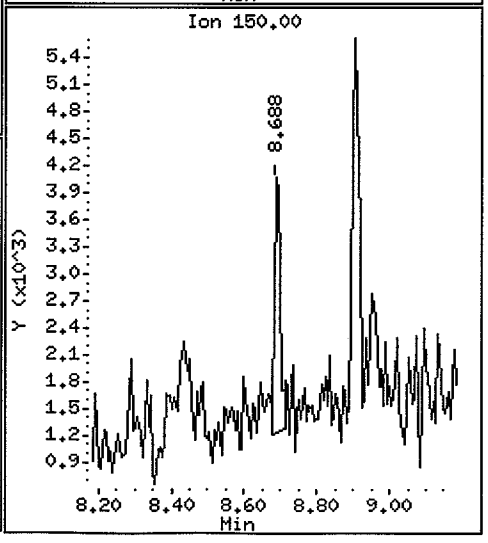


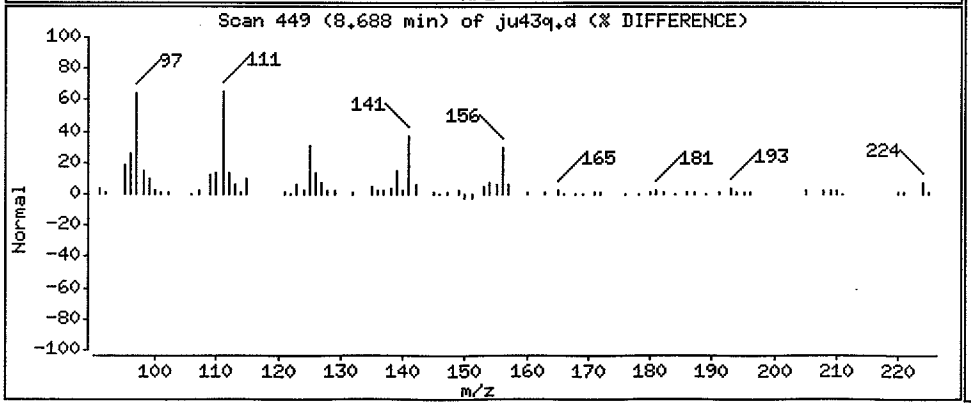












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

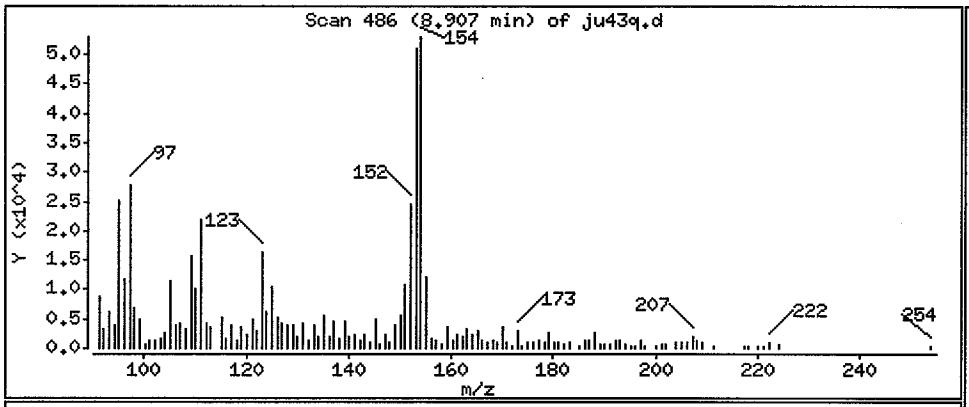
Operator: VTS

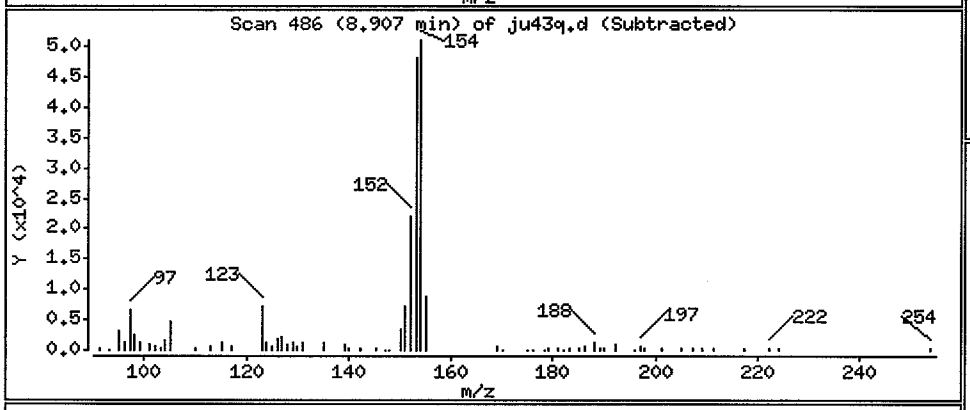
Column phase: ZB-5

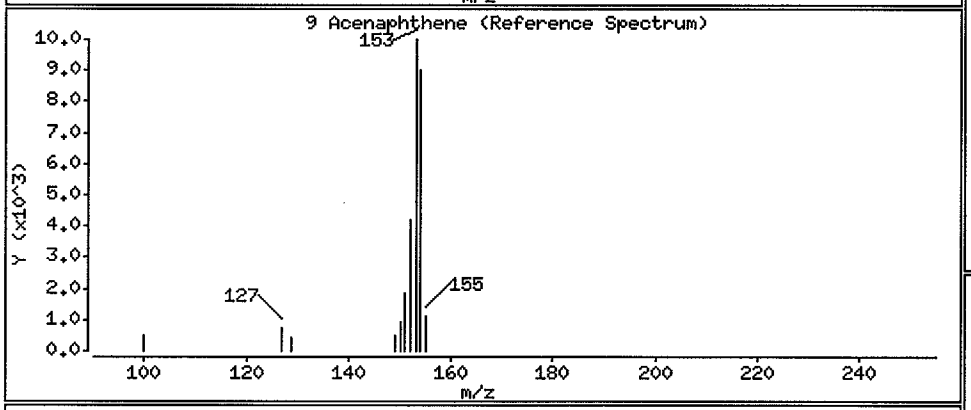
Column diameter: 0.25

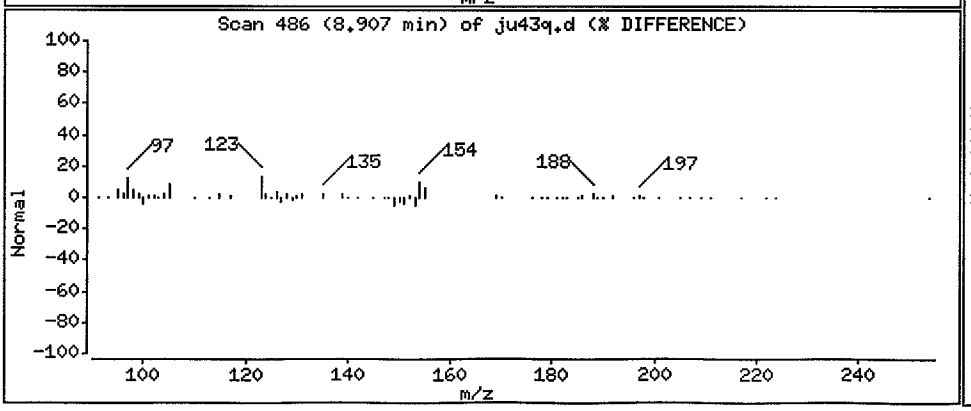
9 Acenaphthene

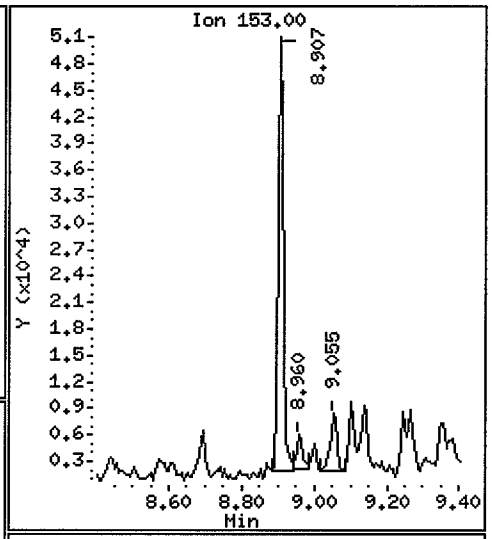
Concentration: 30.57 ug/kg

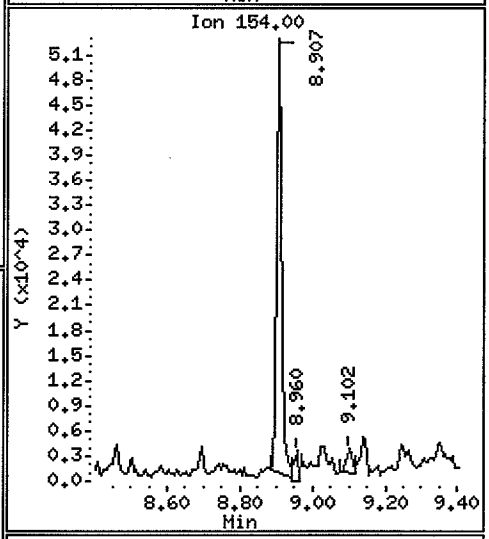


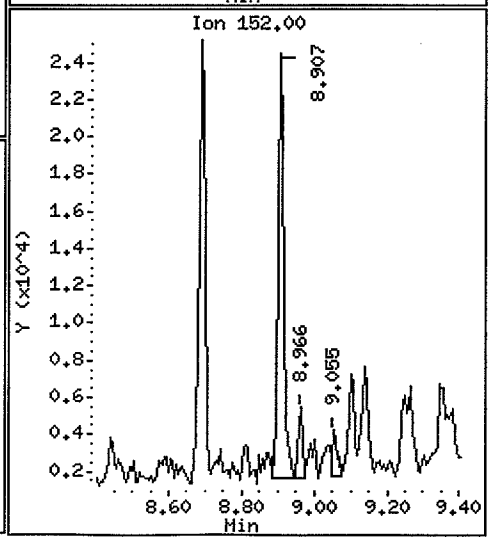












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

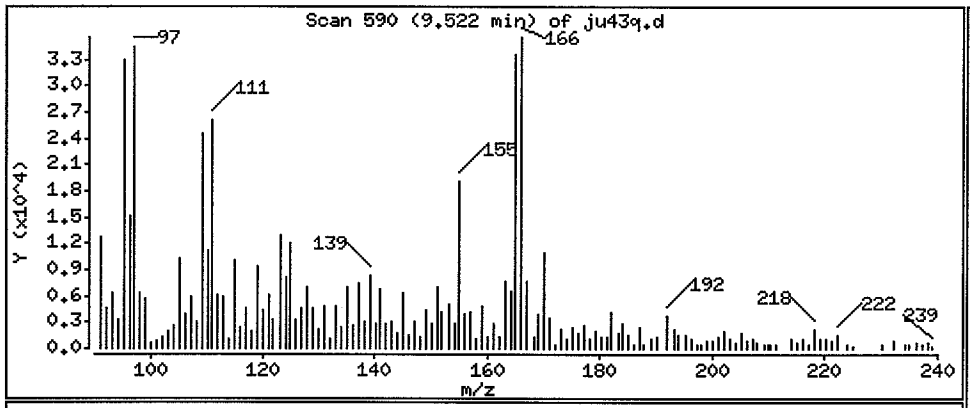
Operator: VTS

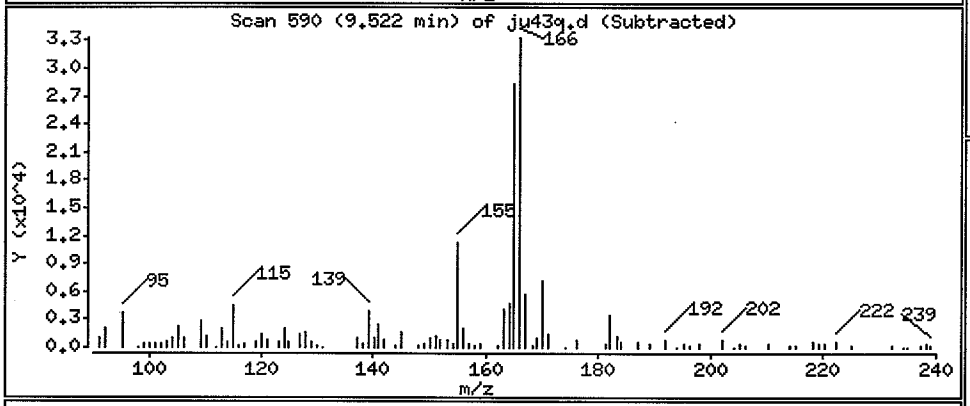
Column phase: ZB-5

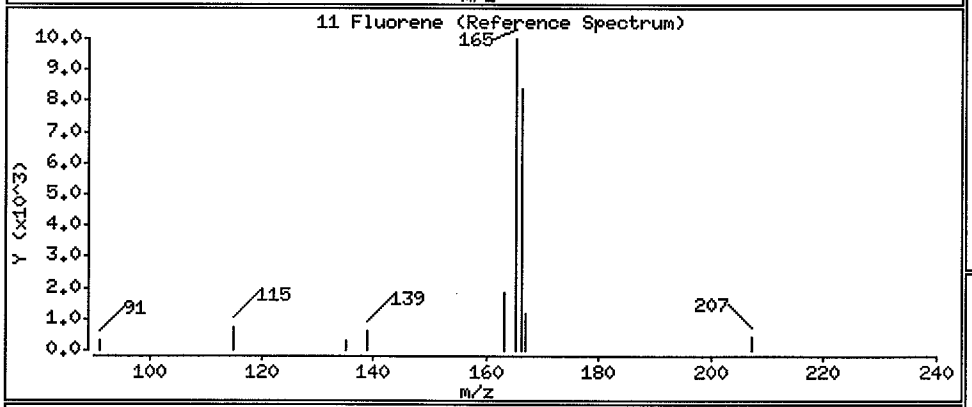
Column diameter: 0.25

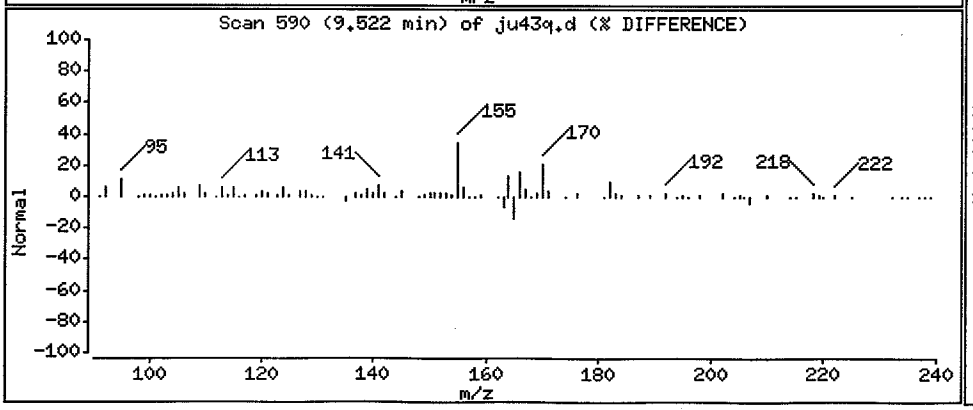
11 Fluorene

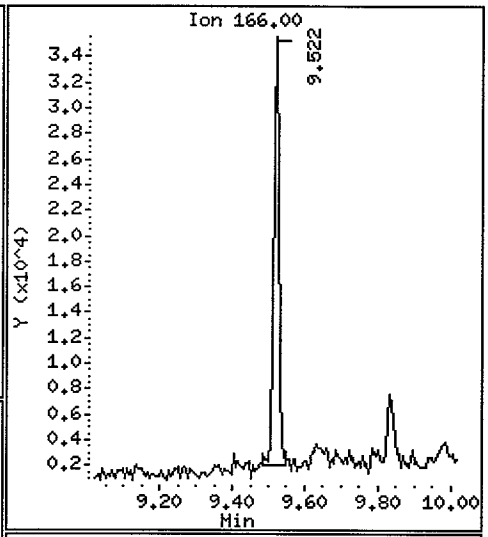
Concentration: 19.09 ug/kg

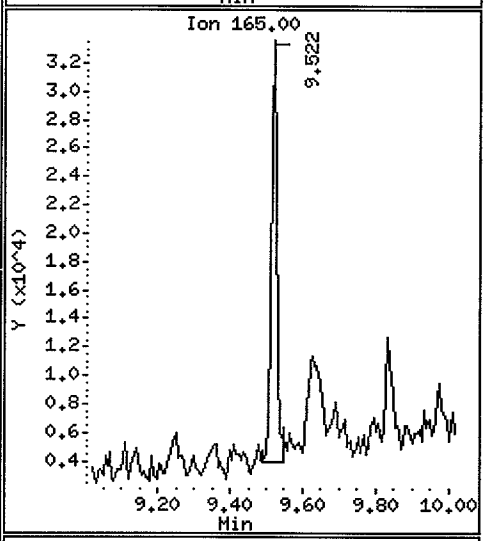


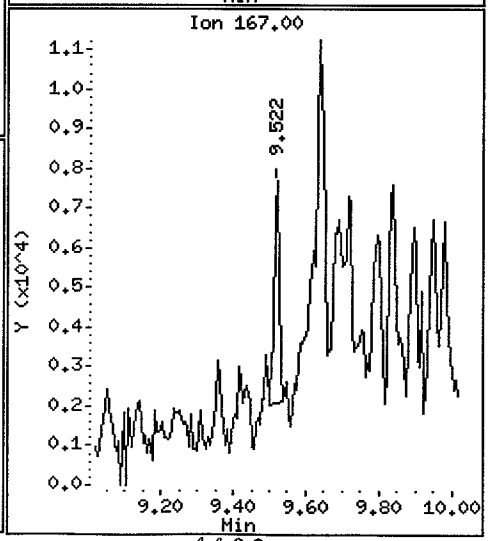












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

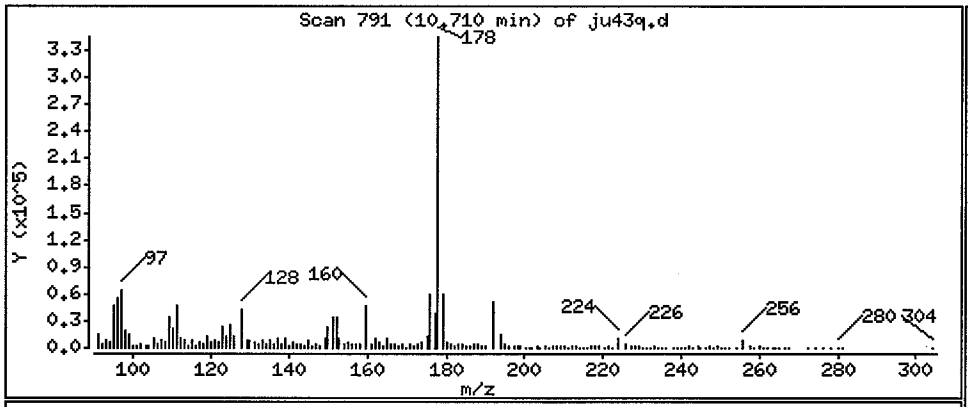
Operator: VTS

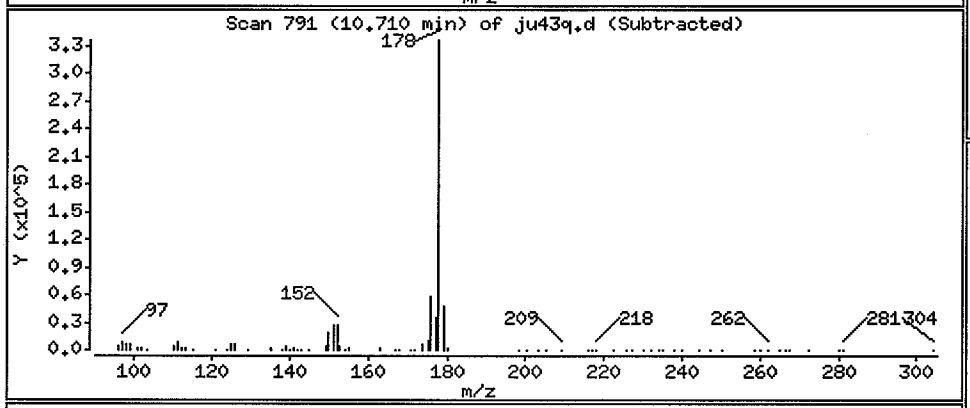
Column phase: ZB-5

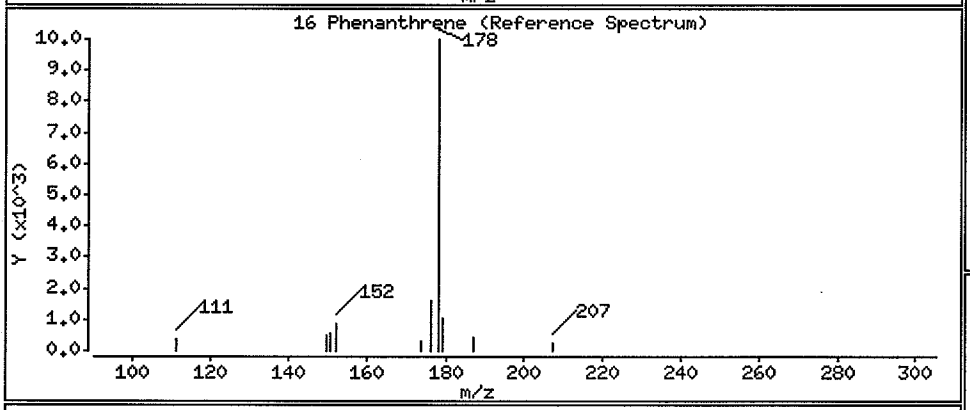
Column diameter: 0.25

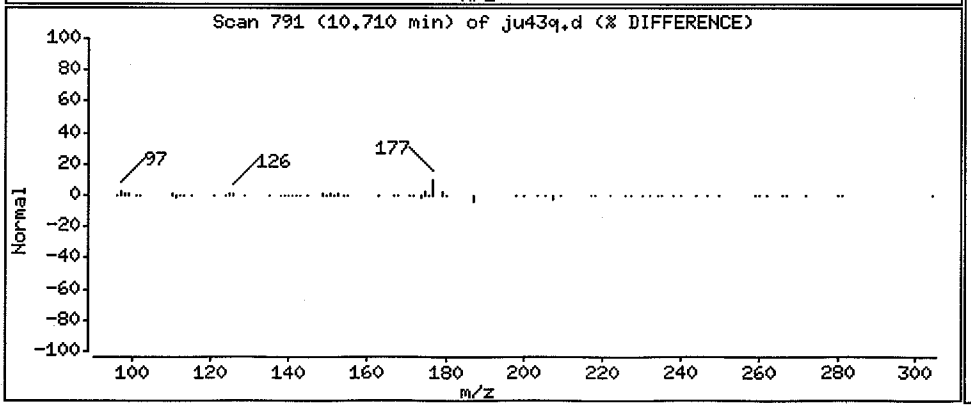
16 Phenanthrene

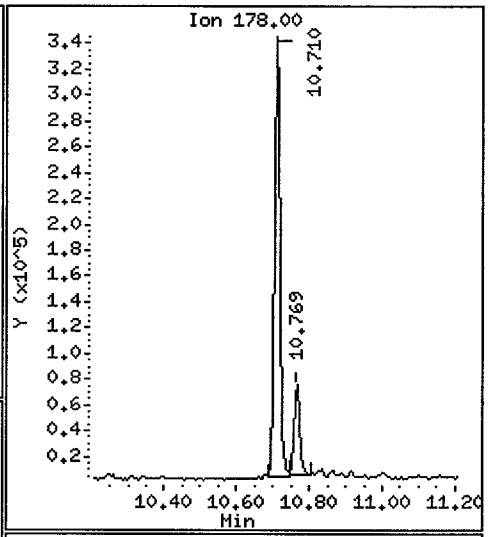
Concentration: 162.8 ug/kg

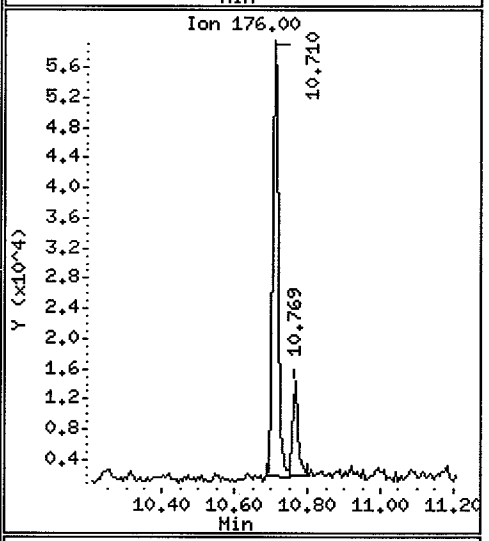


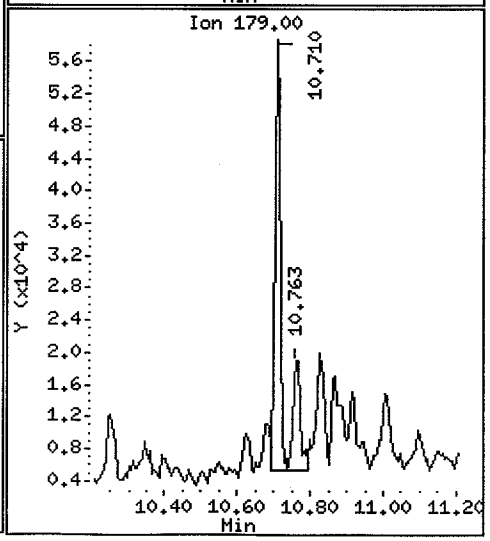












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

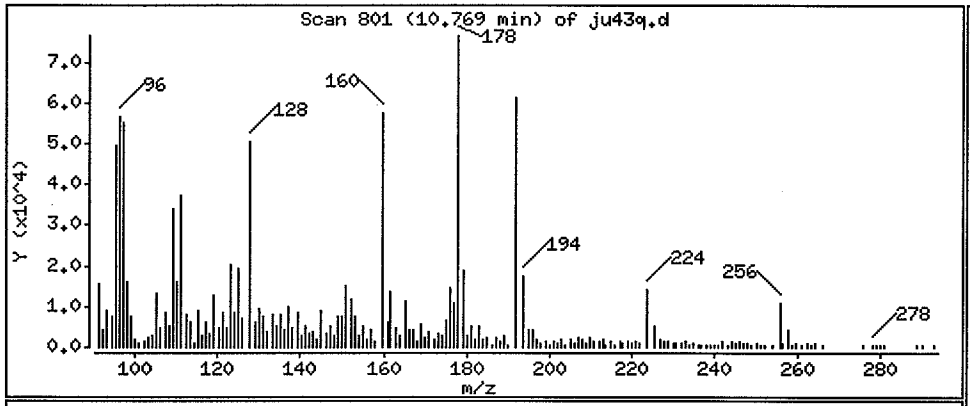
Operator: VTS

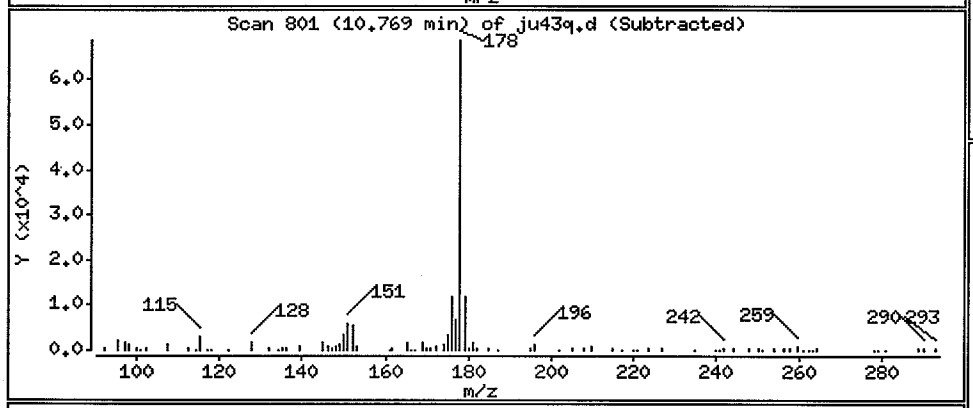
Column phase: ZB-5

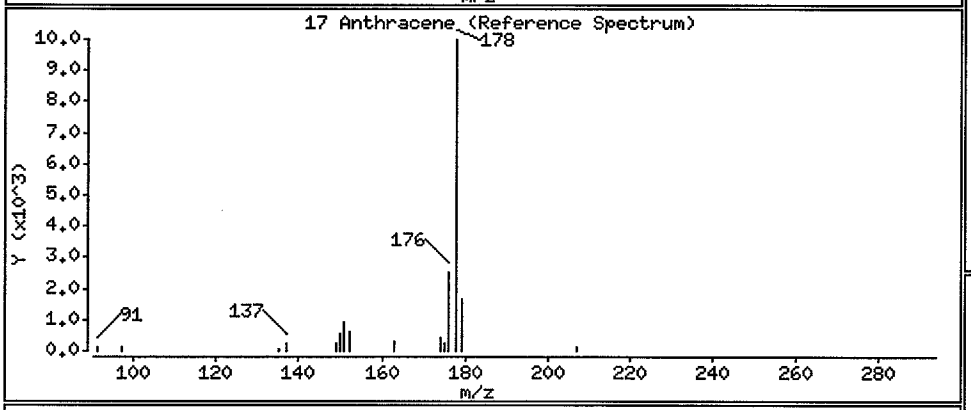
Column diameter: 0.25

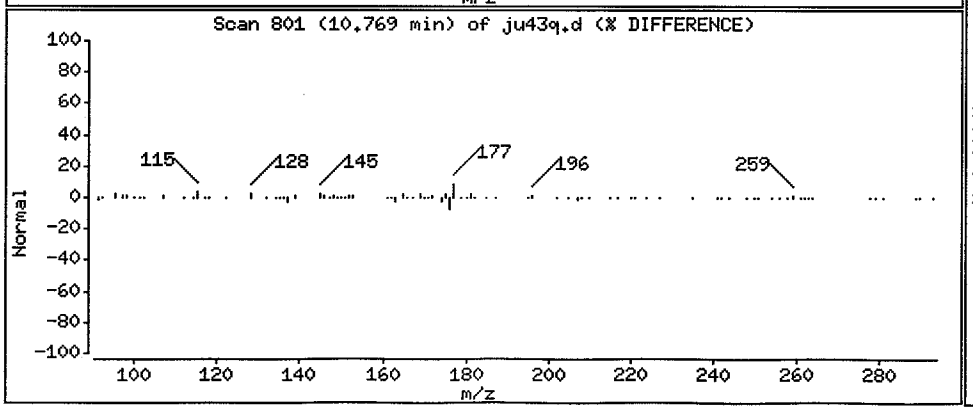
17 Anthracene

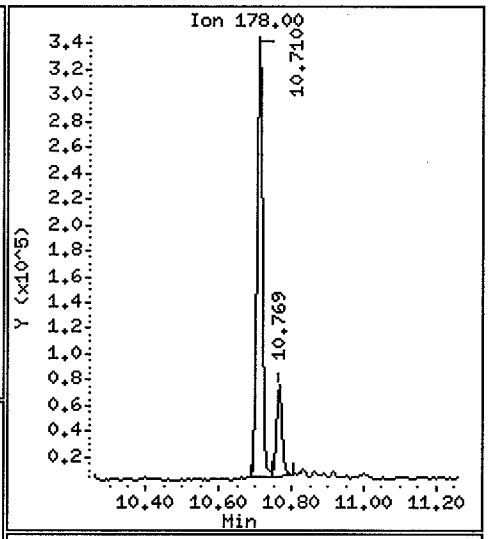
Concentration: 33.82 ug/kg

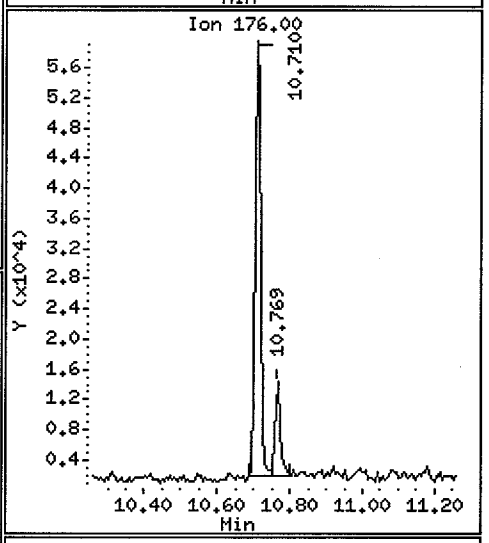


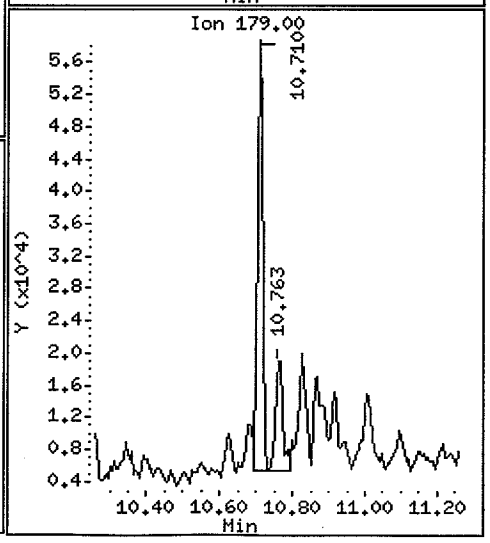












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

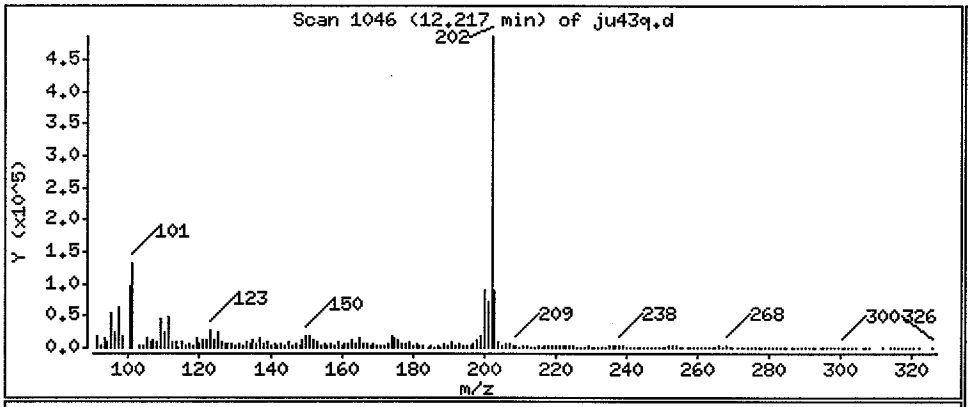
Operator: VTS

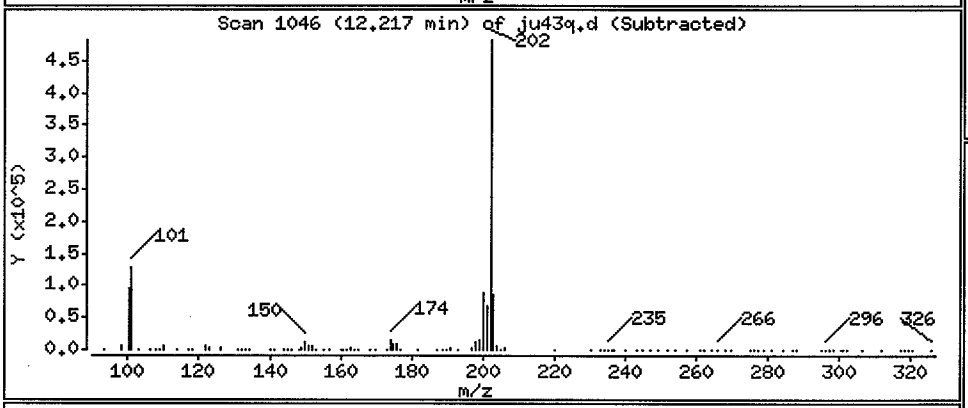
Column phase: ZB-5

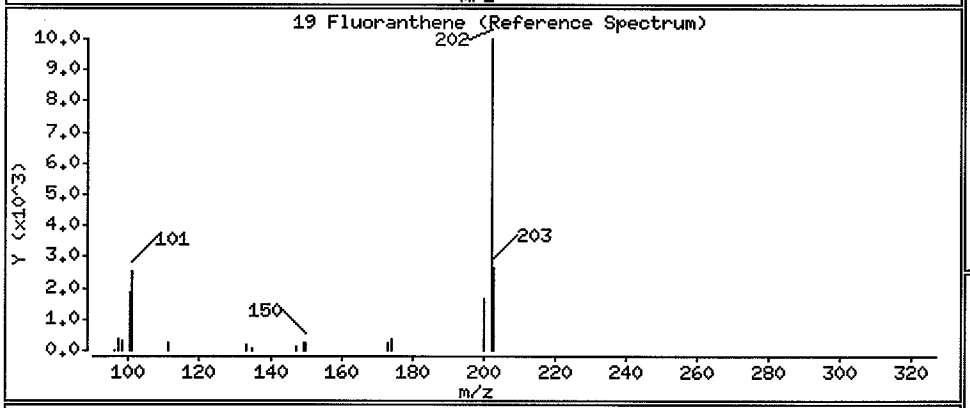
Column diameter: 0.25

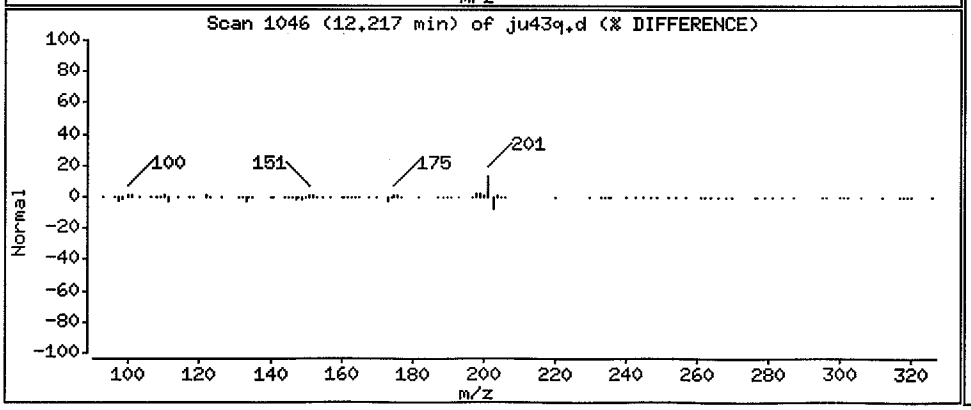
19 Fluoranthene

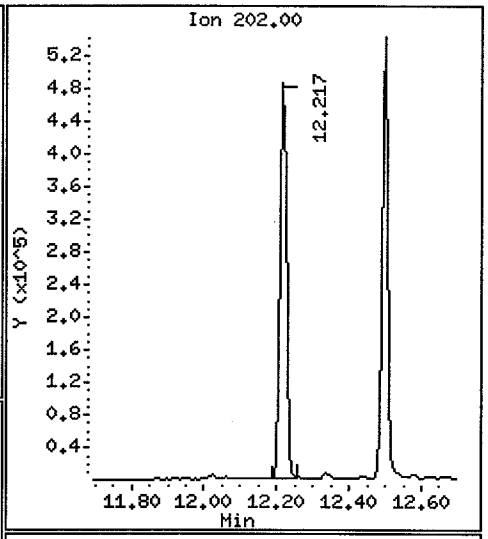
Concentration: 261.8 ug/kg

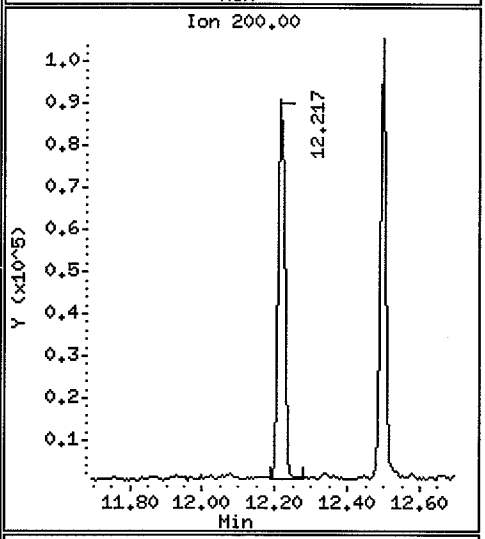


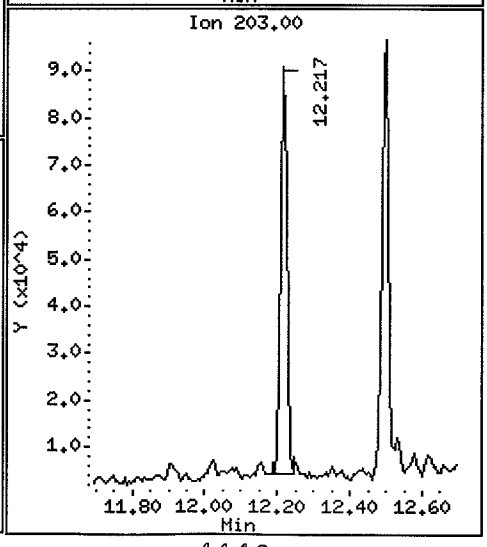












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

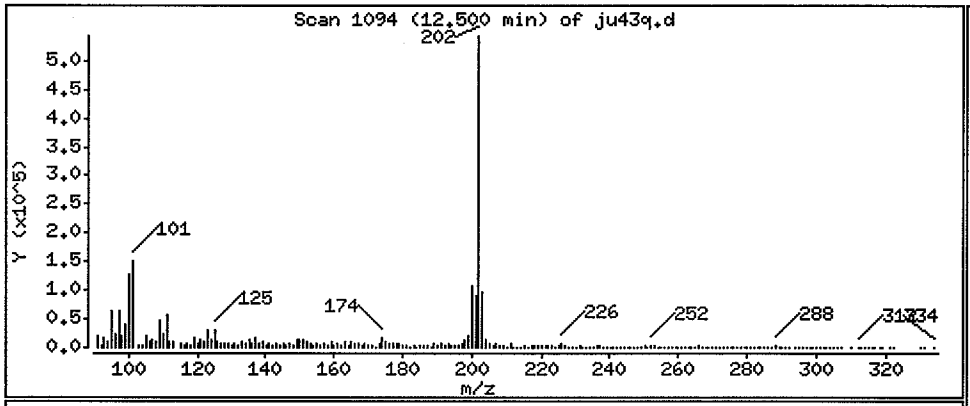
Operator: VTS

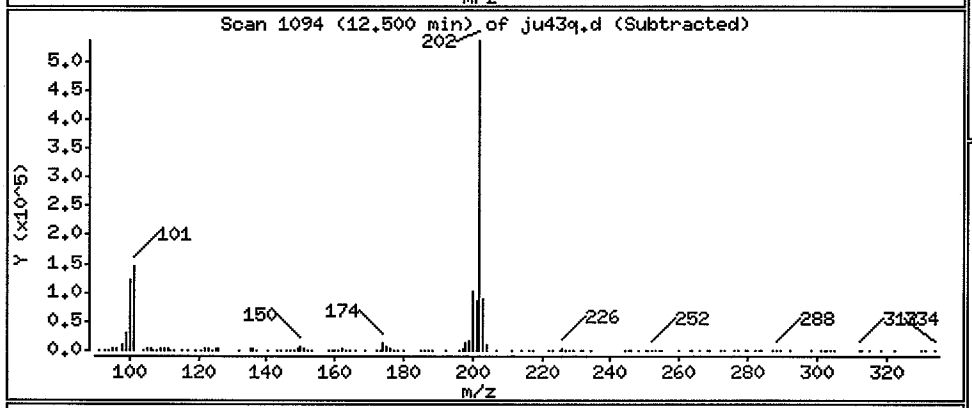
Column phase: ZB-5

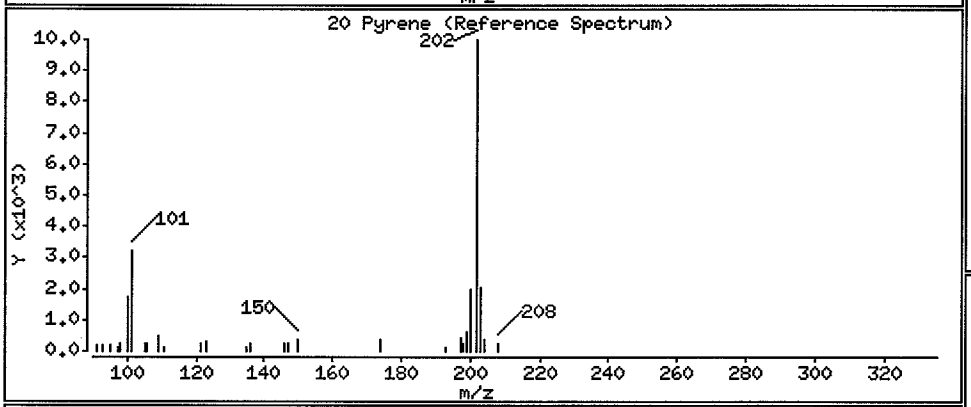
Column diameter: 0.25

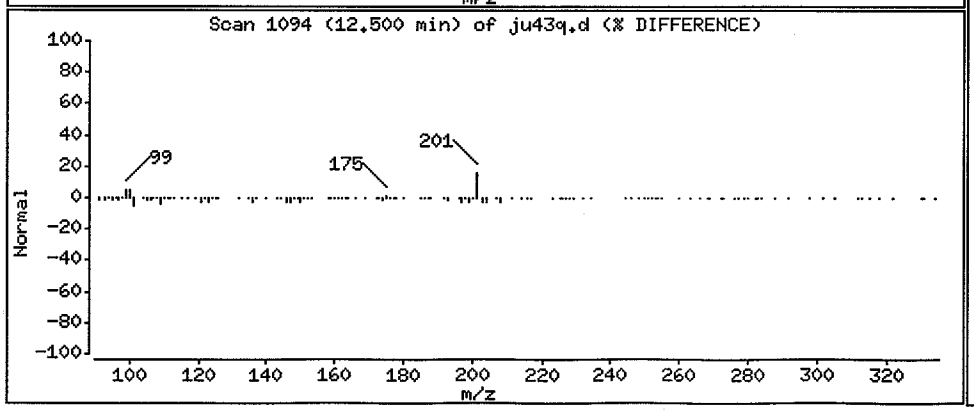
20 Pyrene

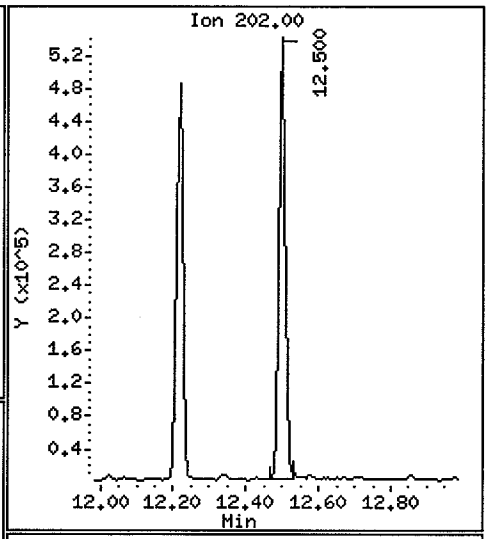
Concentration: 263.2 ug/kg

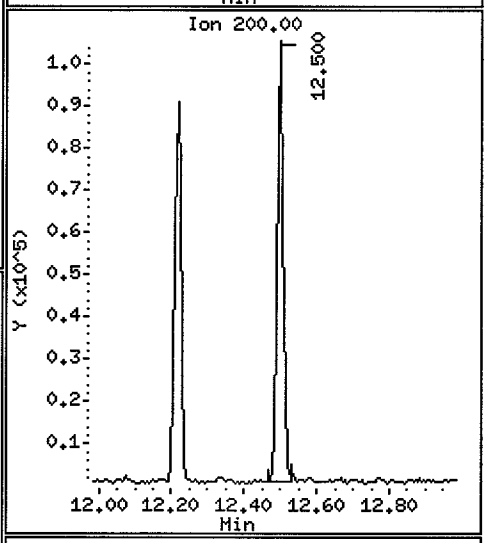


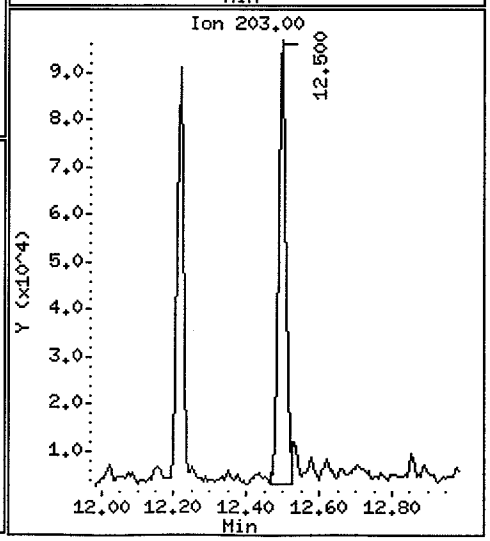












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

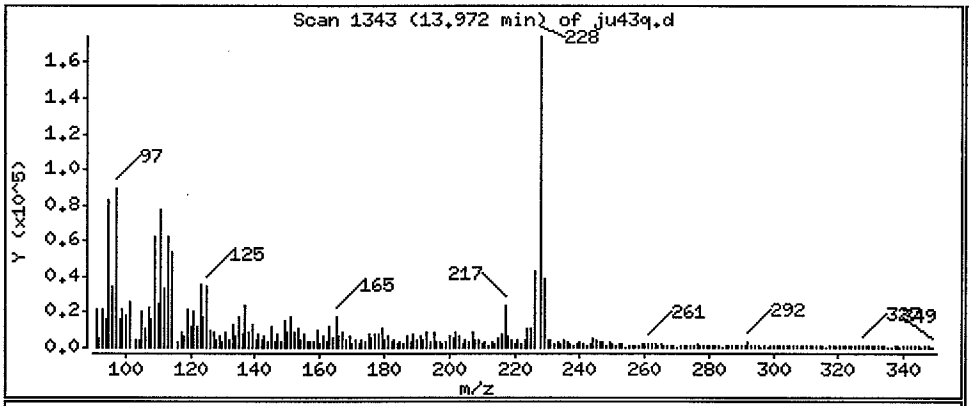
Operator: VTS

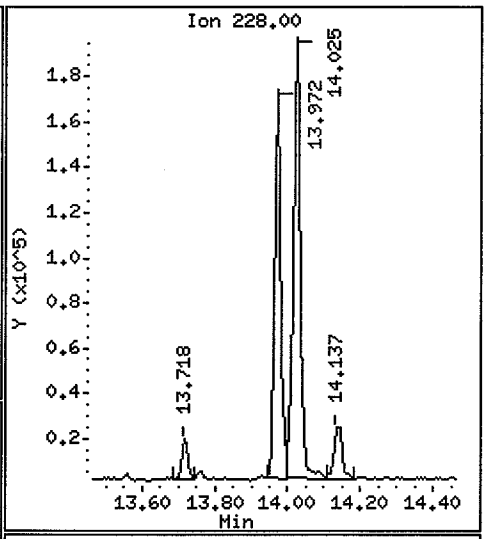
Column phase: ZB-5

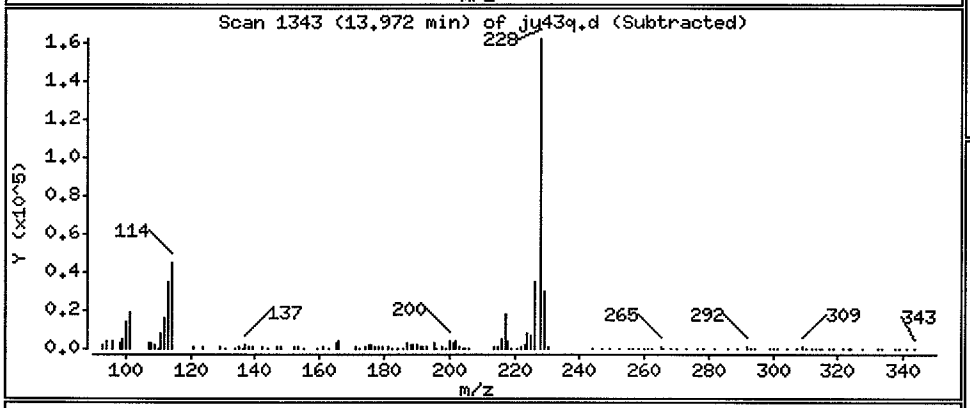
Column diameter: 0.25

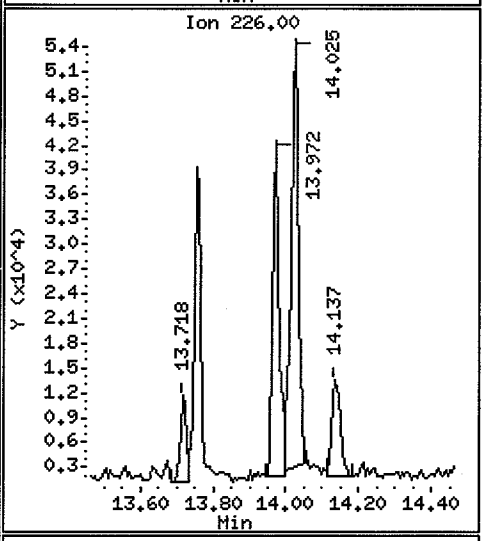
22 Benzo(a)anthracene

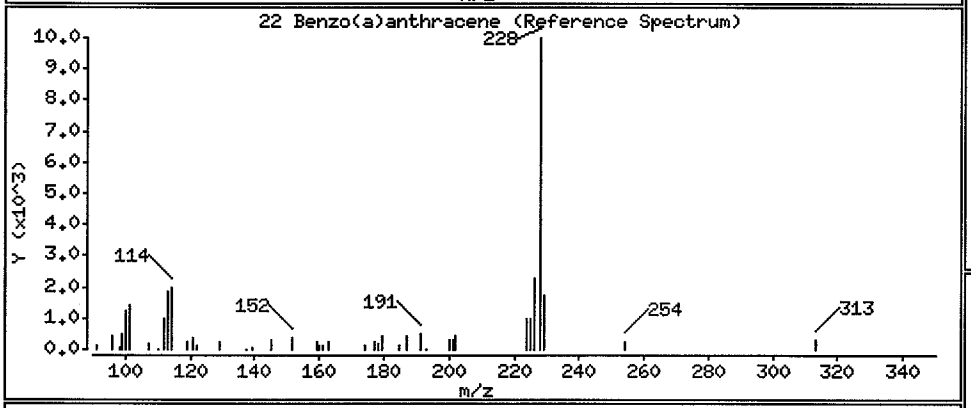
Concentration: 102.4 ug/kg

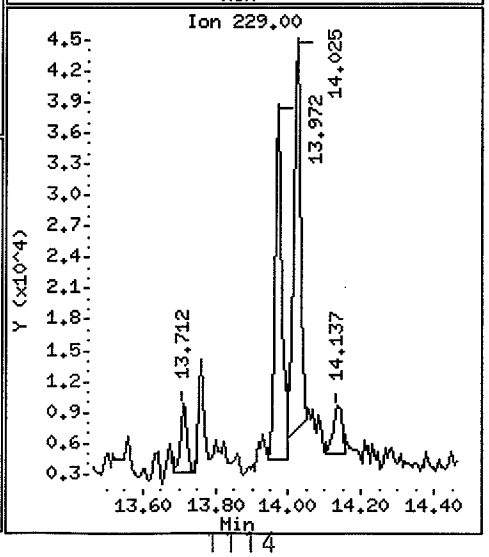


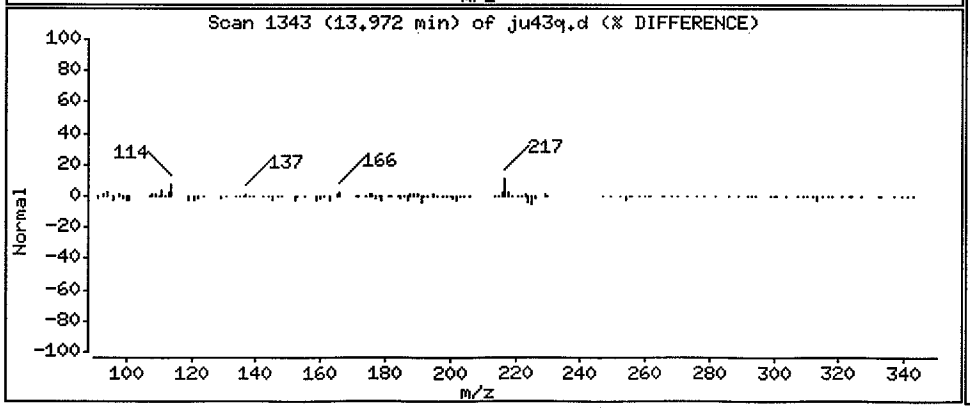












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

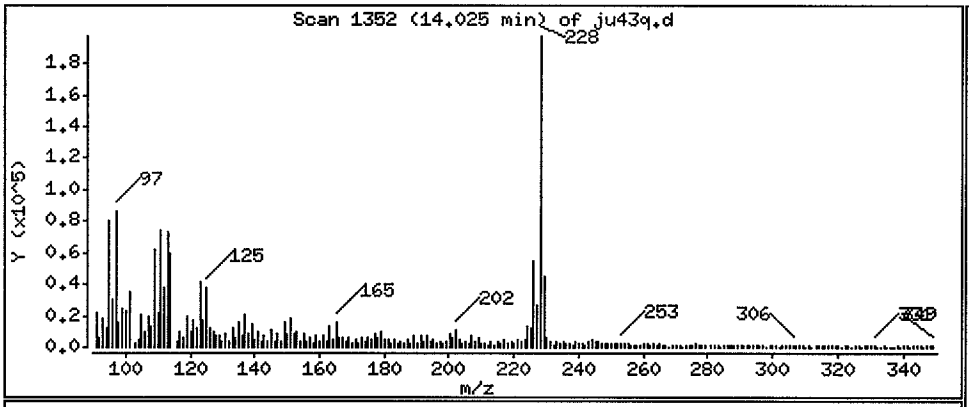
Operator: VTS

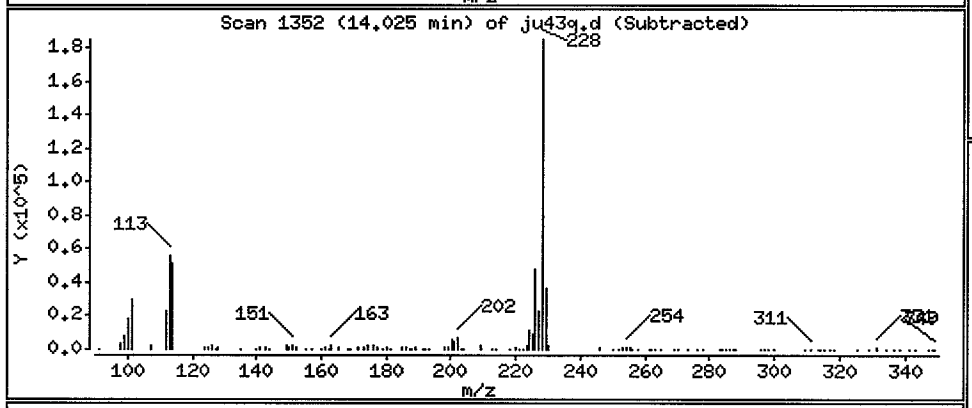
Column phase: ZB-5

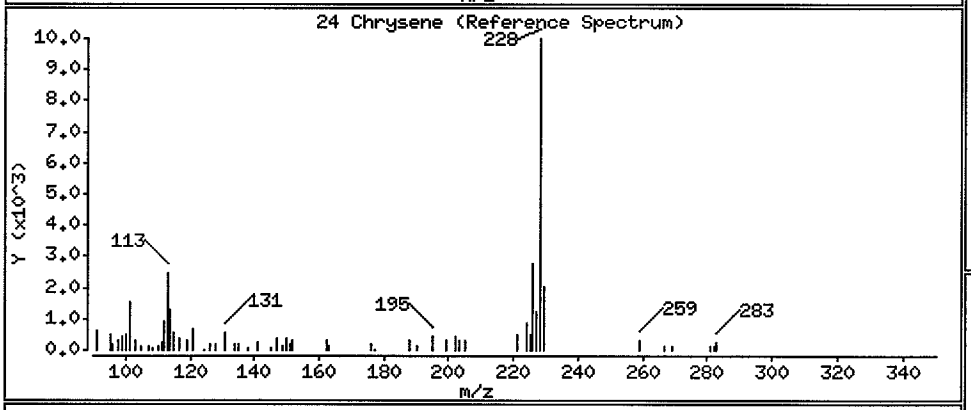
Column diameter: 0.25

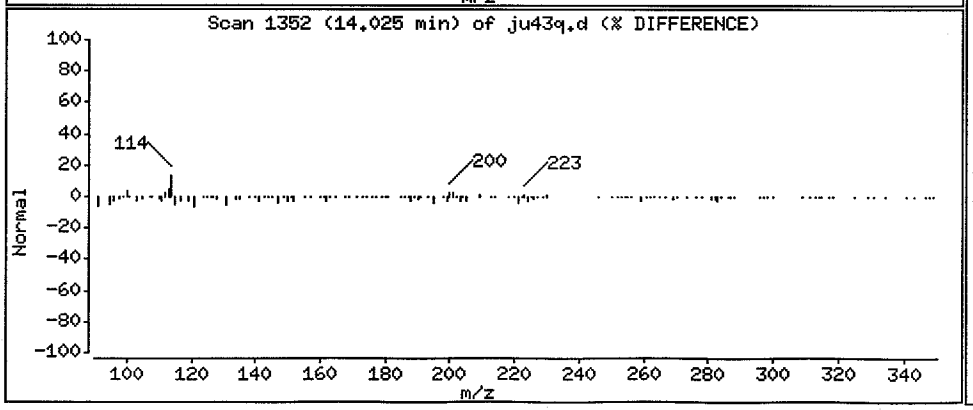
24 Chrysene

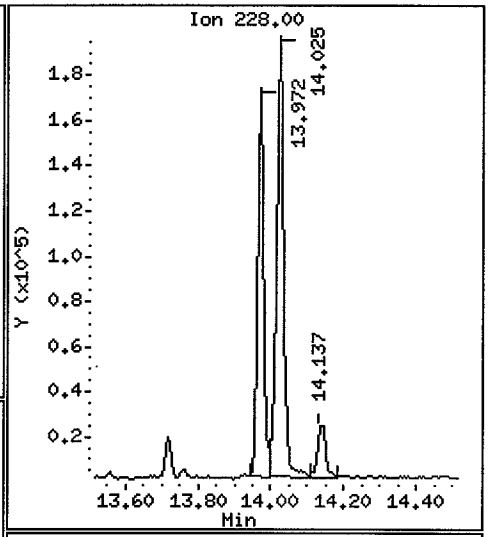
Concentration: 144.0 ug/kg

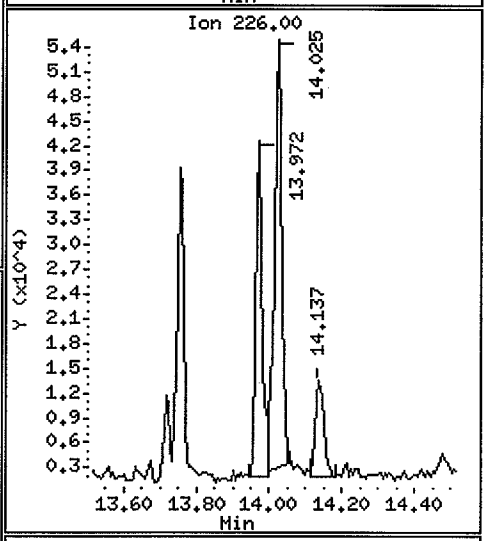


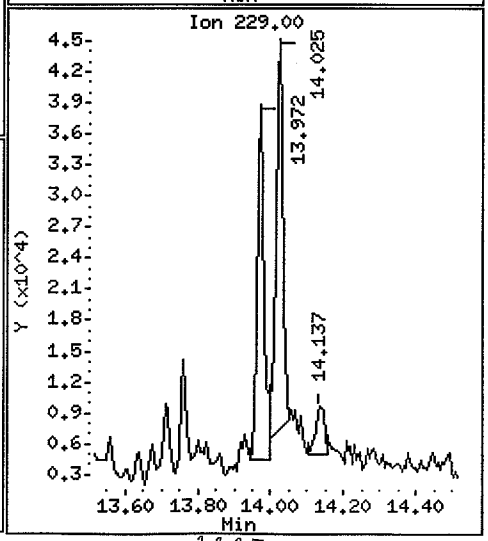












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

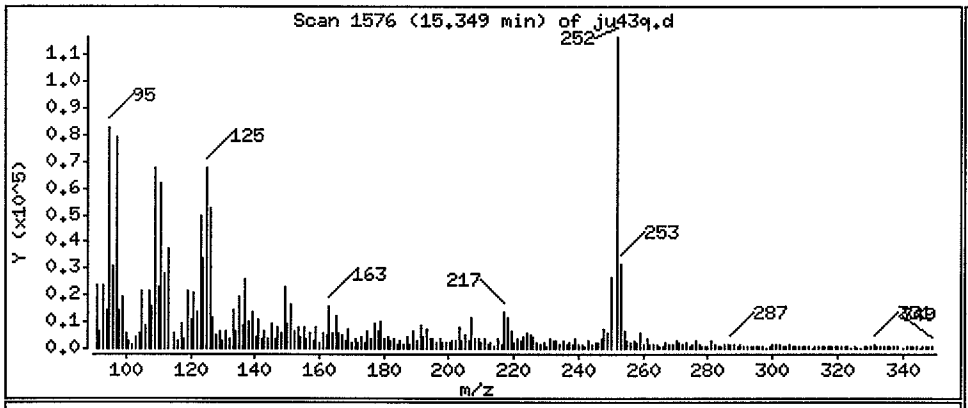
Operator: VTS

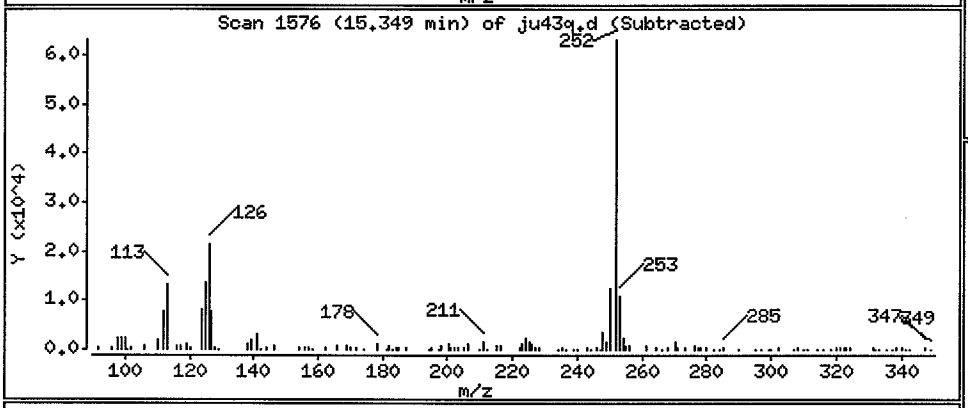
Column phase: ZB-5

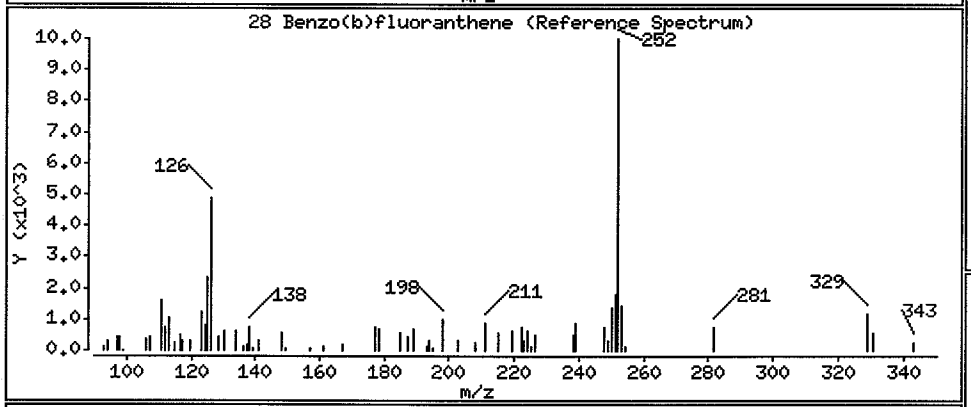
Column diameter: 0.25

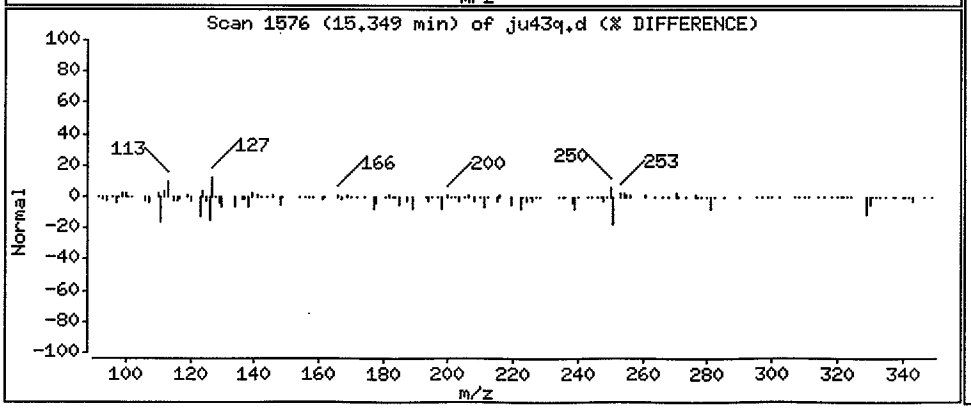
28 Benzo(b)fluoranthene

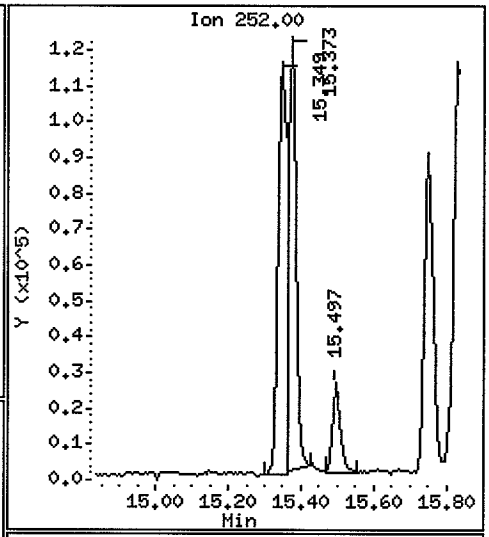
Concentration: 103.5 ug/kg

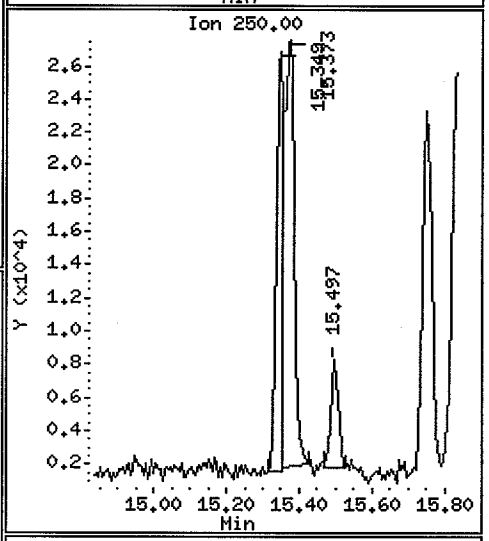


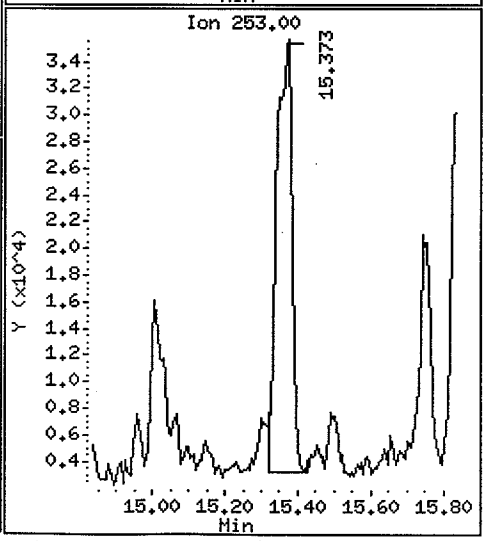












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

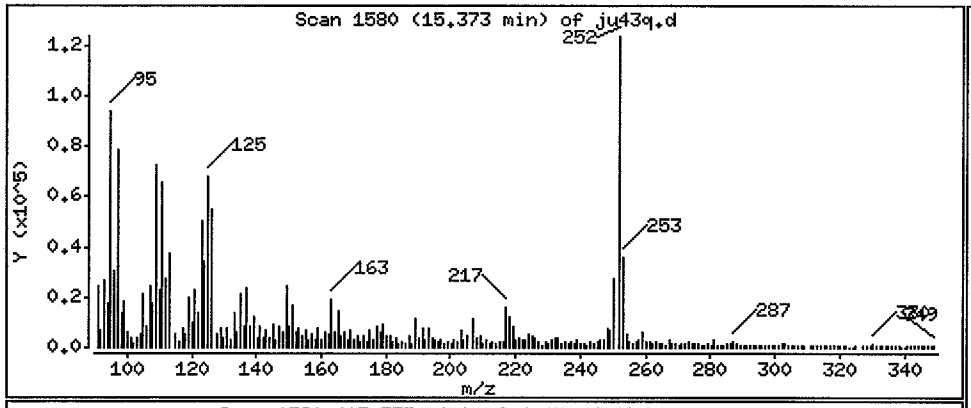
Operator: VTS

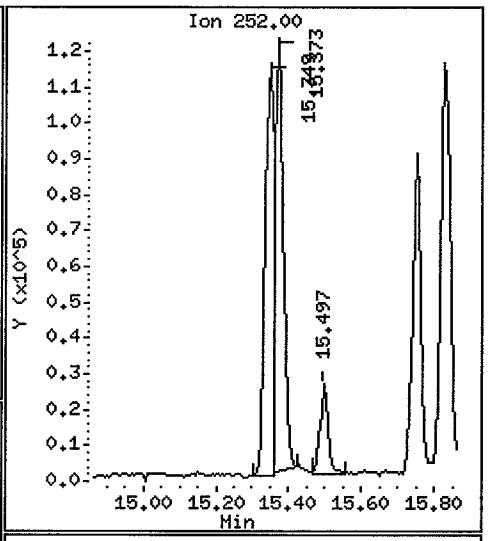
Column phase: ZB-5

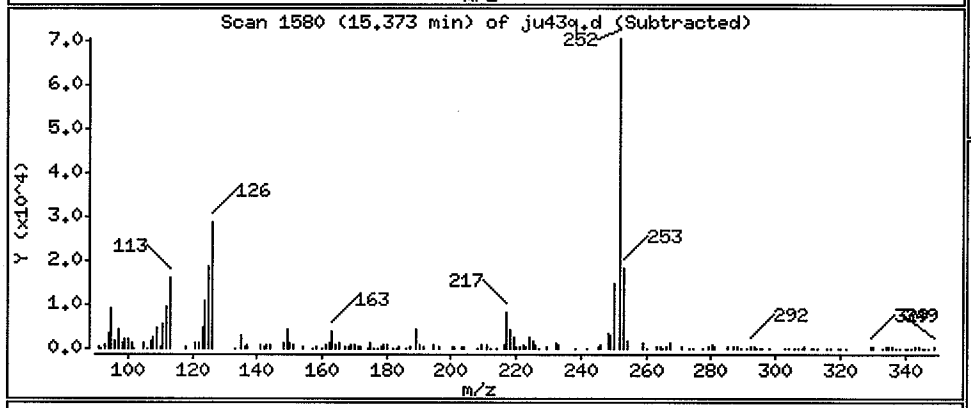
Column diameter: 0.25

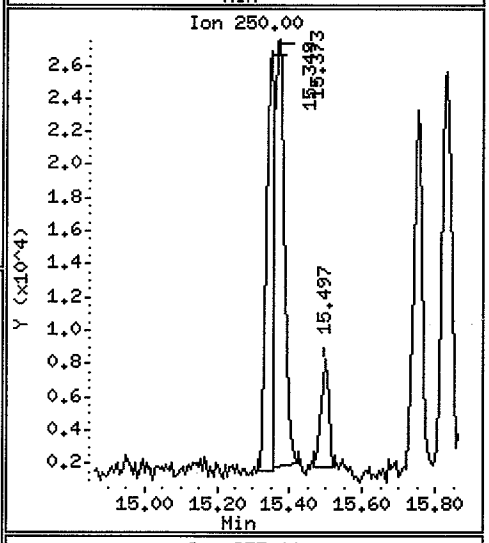
29 Benzo(k)fluoranthene

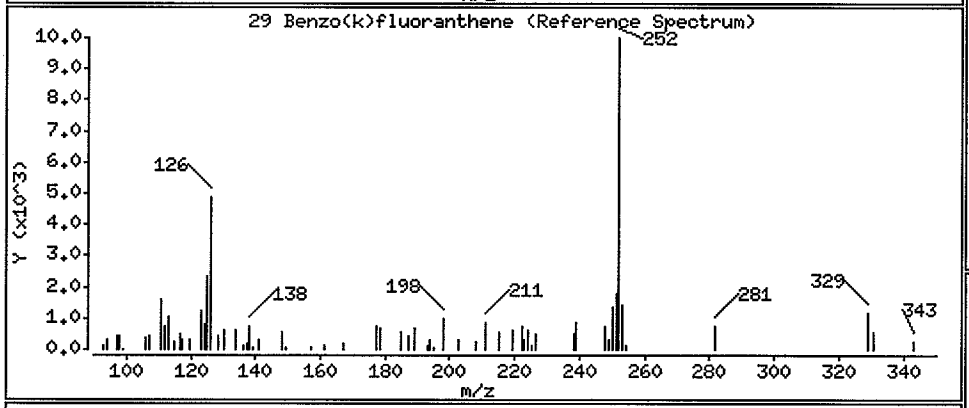
Concentration: 100.3 ug/kg

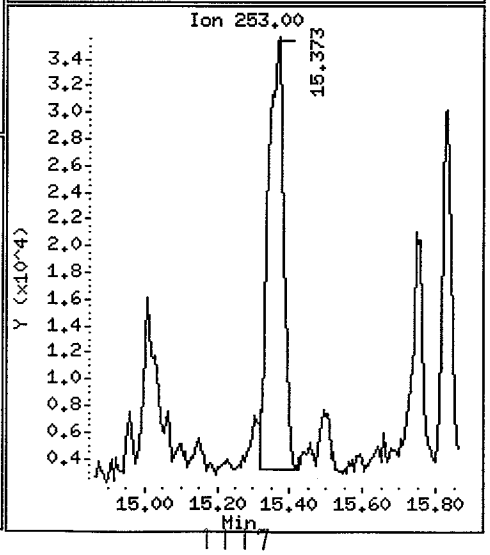


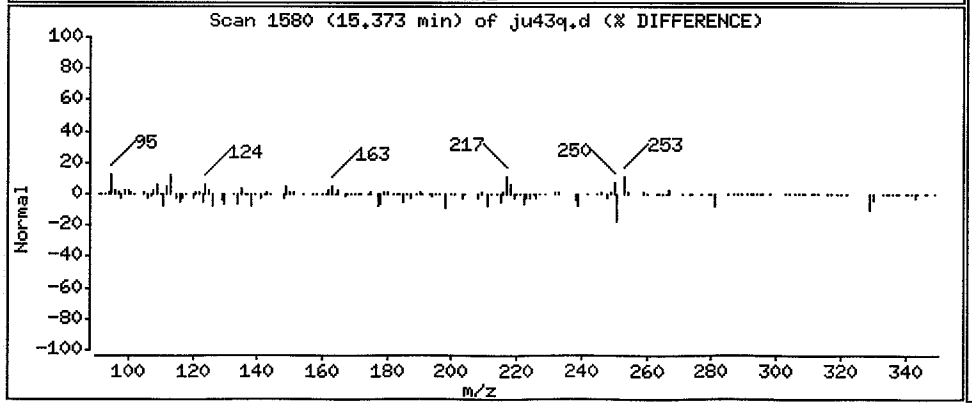












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

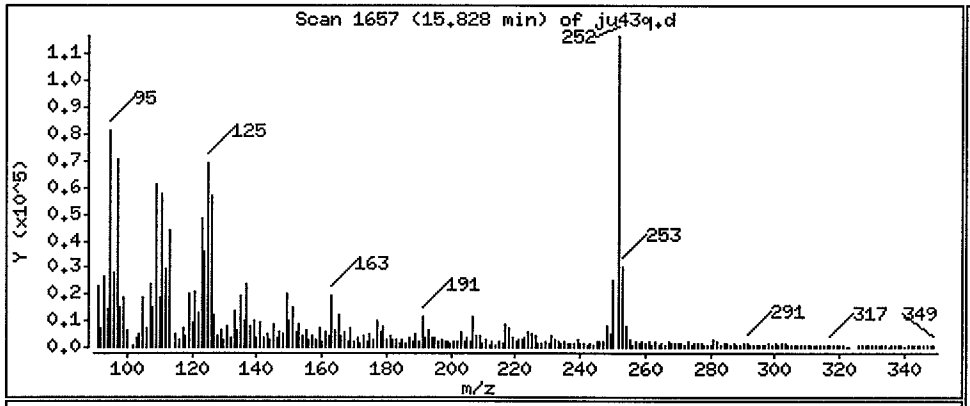
Operator: VTS

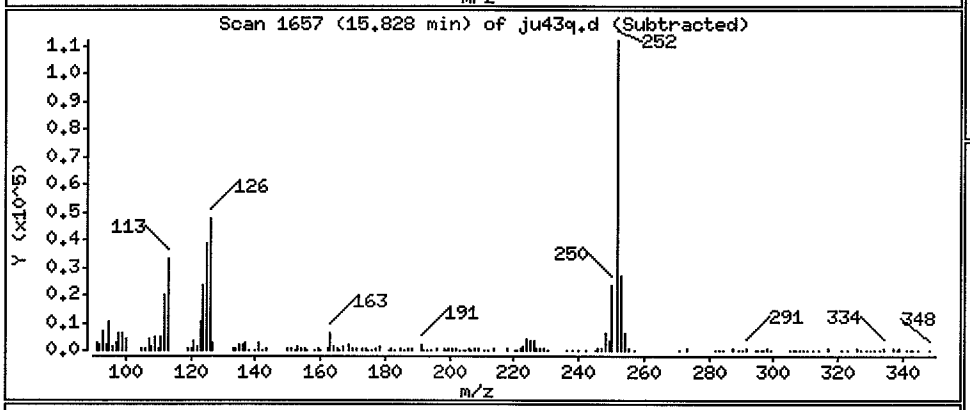
Column phase: ZB-5

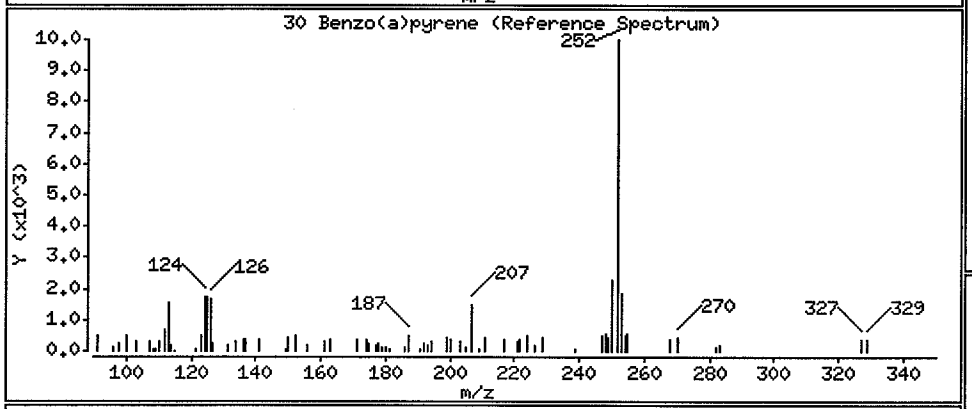
Column diameter: 0.25

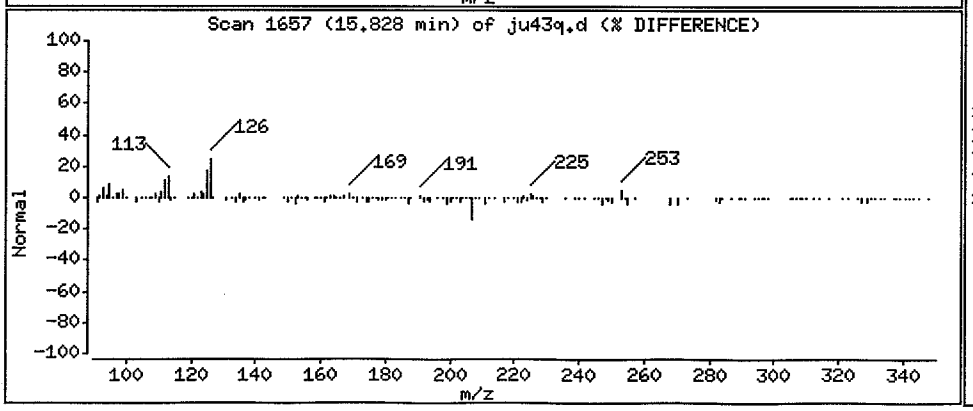
30 Benzo(a)pyrene

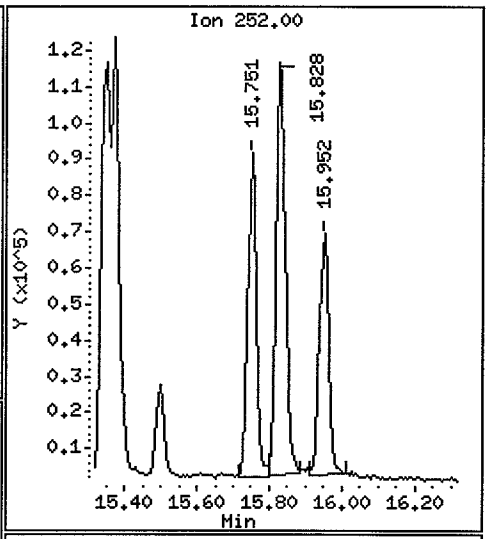
Concentration: 120.8 ug/kg

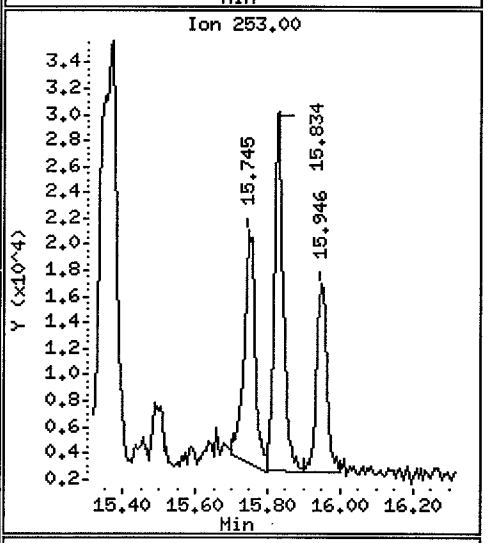


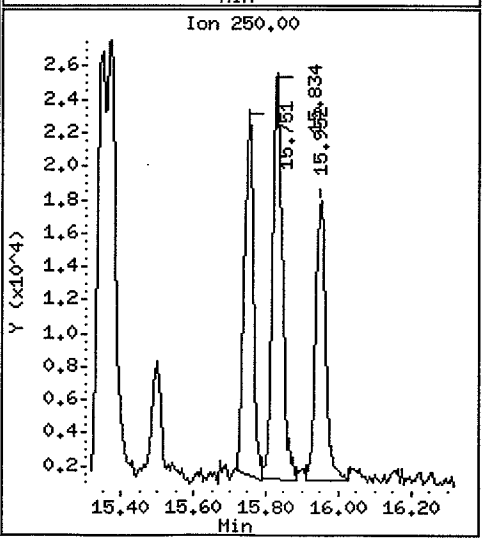












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

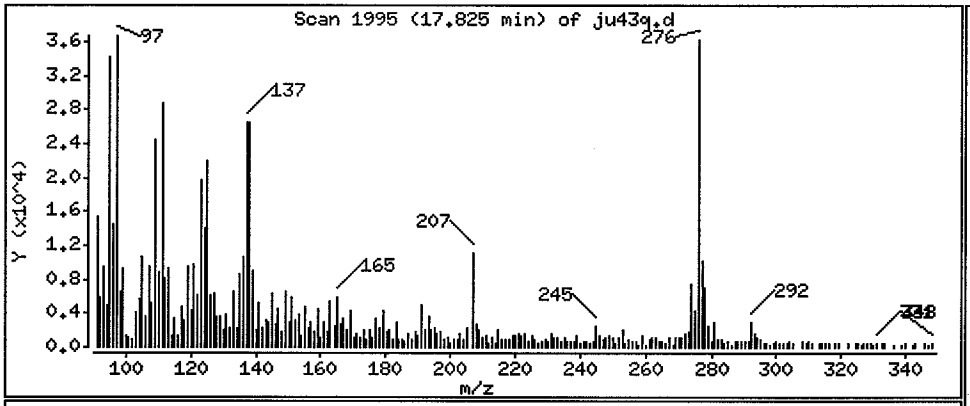
Operator: VTS

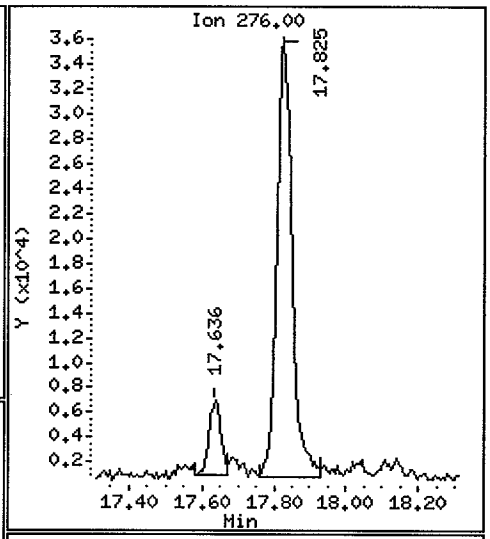
Column phase: ZB-5

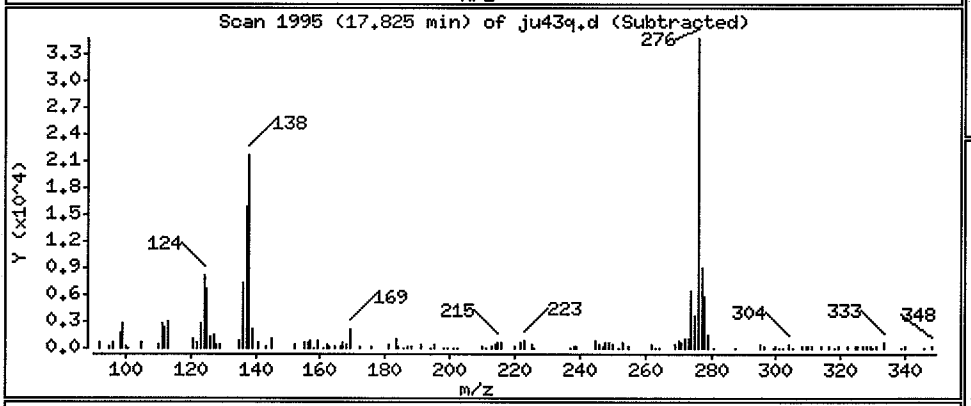
Column diameter: 0.25

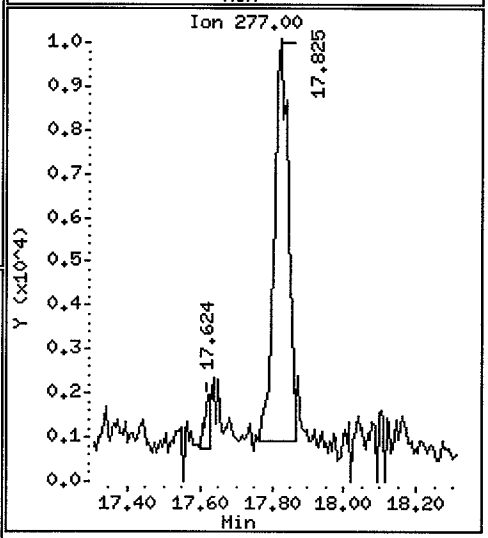
33 Indeno(1,2,3-cd)pyrene

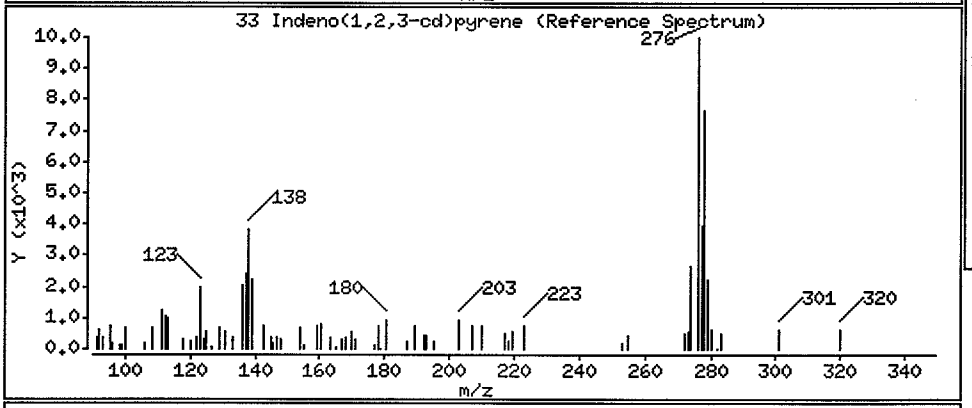
Concentration: 56.96 ug/kg

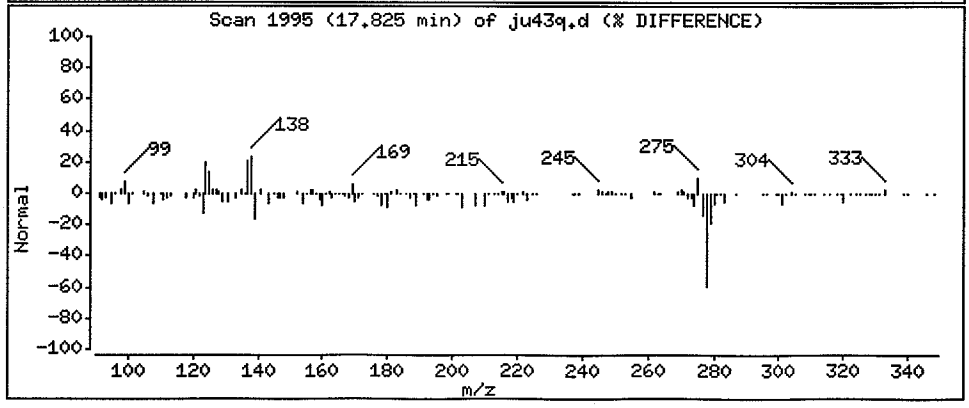












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

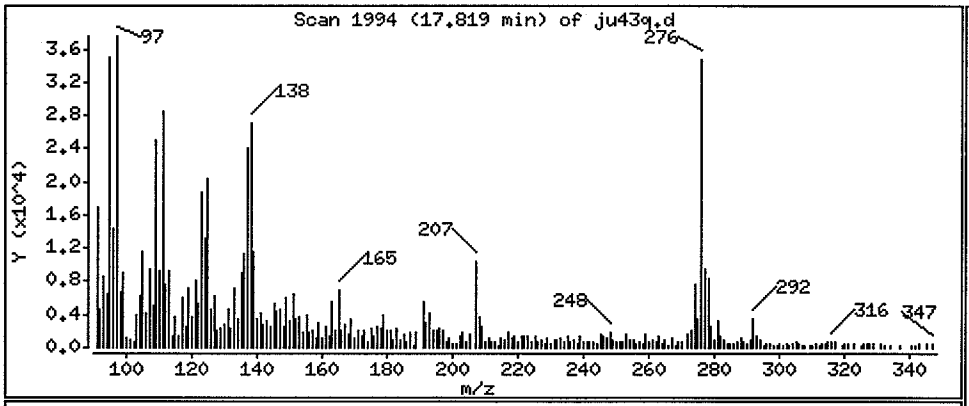
Operator: VTS

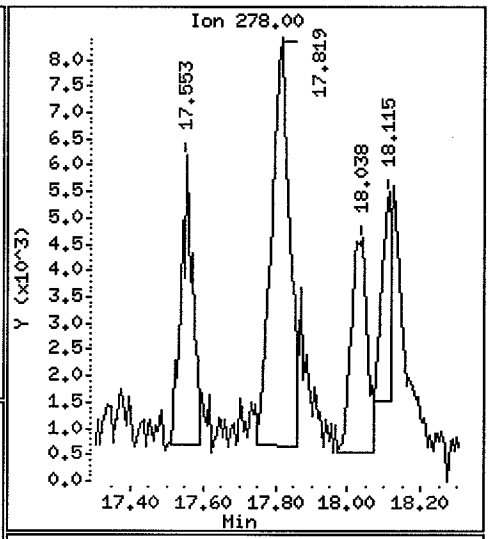
Column phase: ZB-5

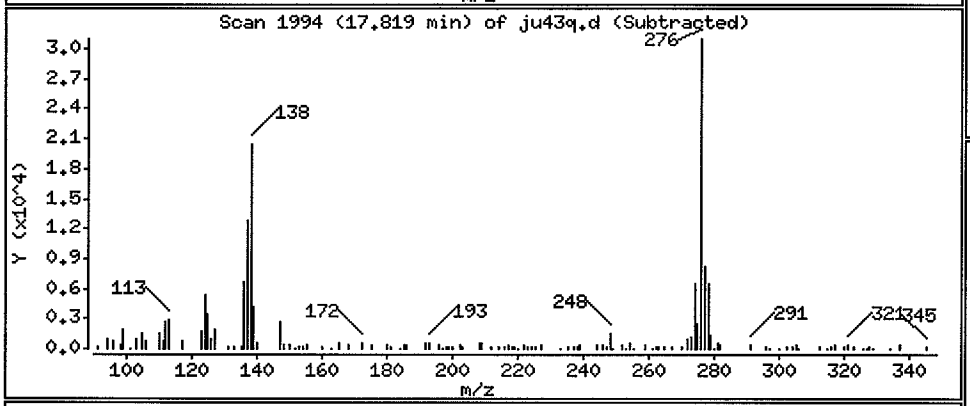
Column diameter: 0.25

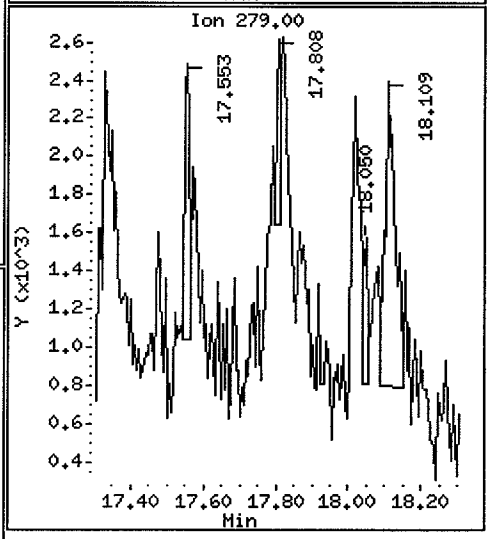
34 Dibenz(a,h)anthracene

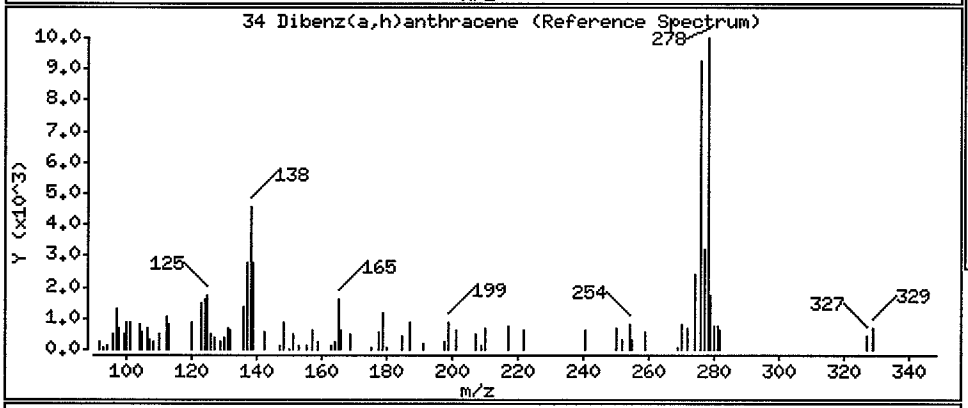
Concentration: 18.18 ug/kg

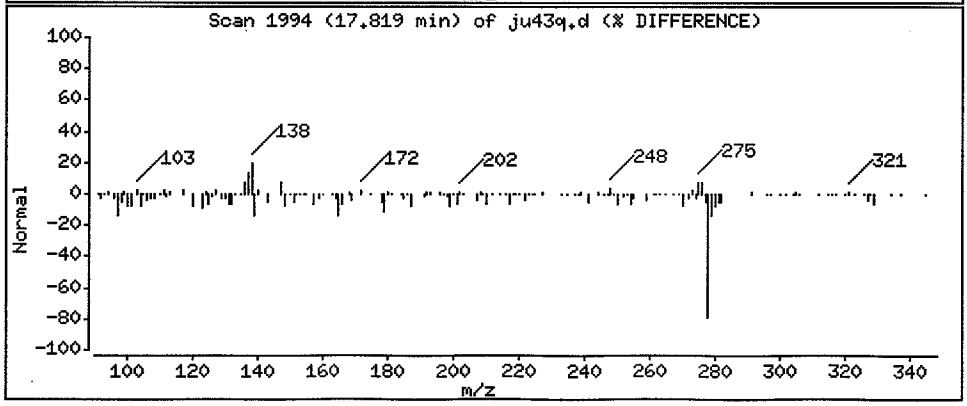












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

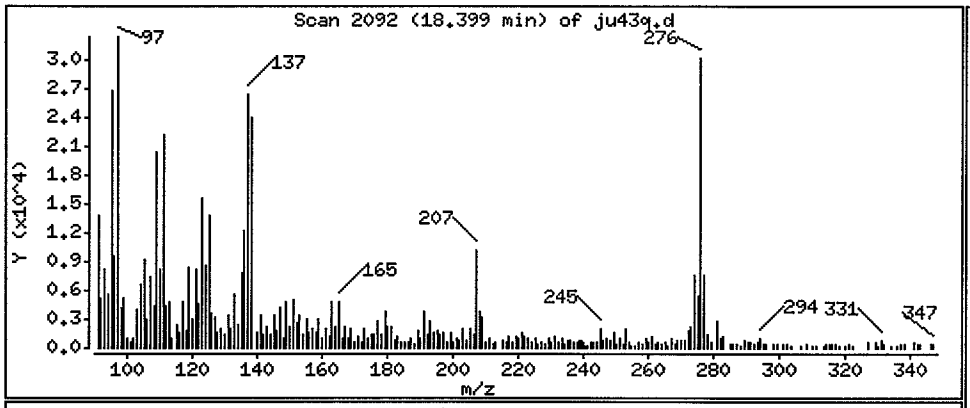
Operator: VTS

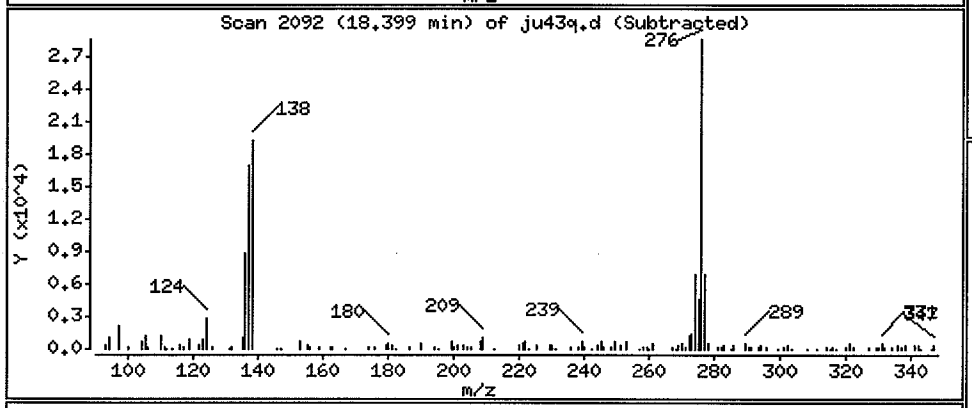
Column phase: ZB-5

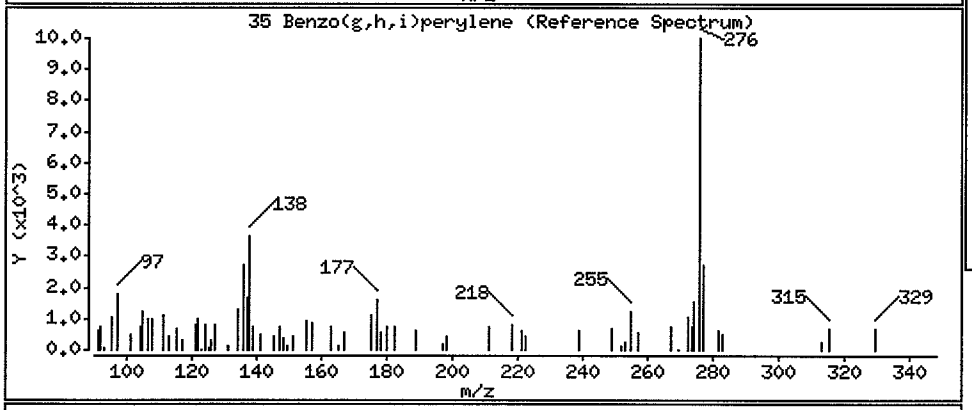
Column diameter: 0.25

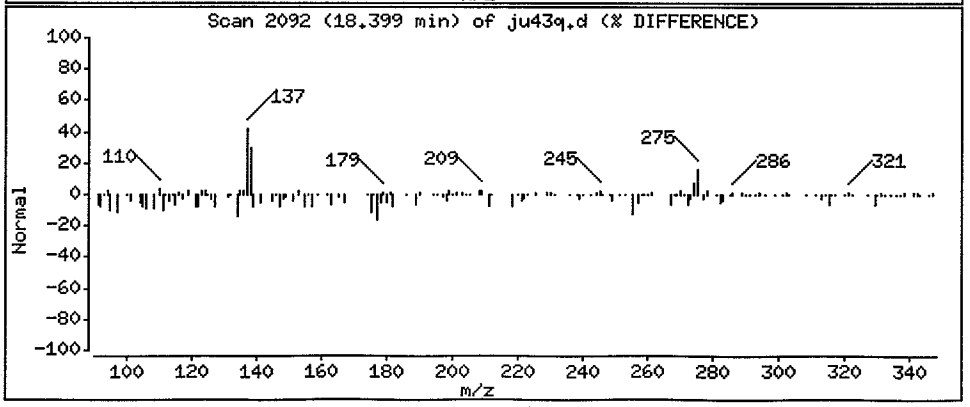
35 Benzo(g,h,i)perylene

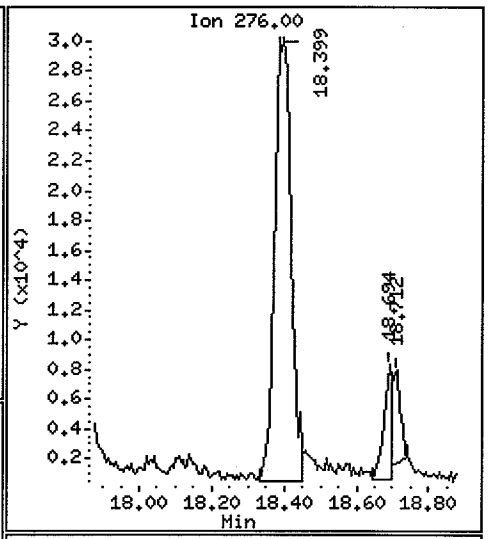
Concentration: 58.47 ug/kg

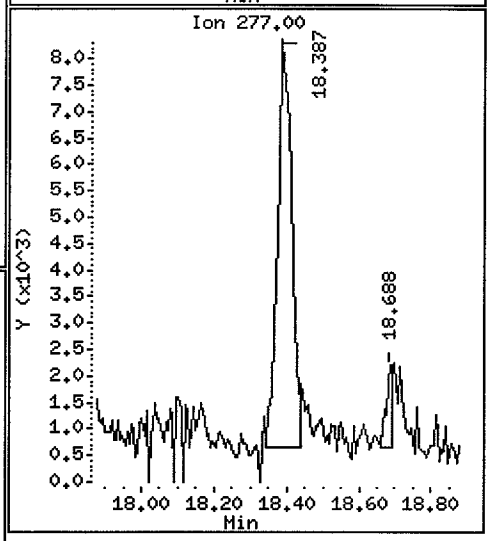












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

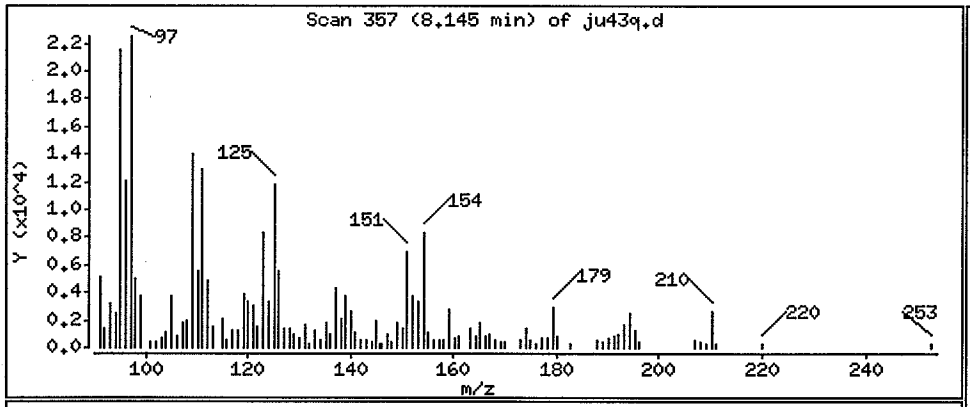
Operator: VTS

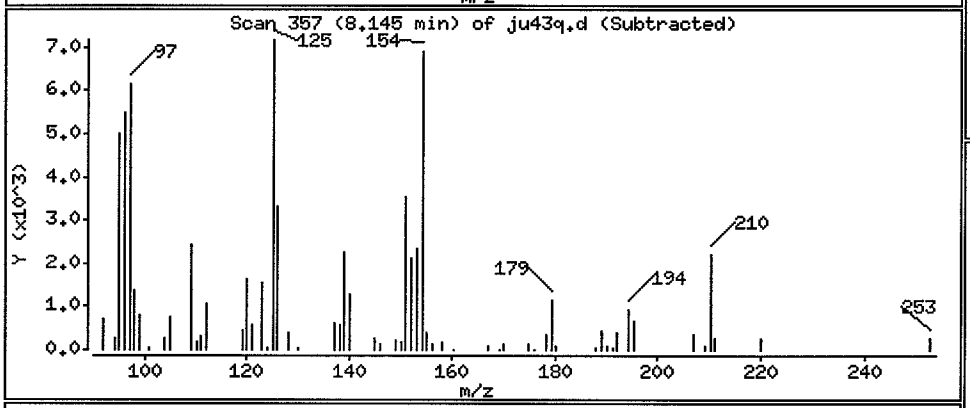
Column phase: ZB-5

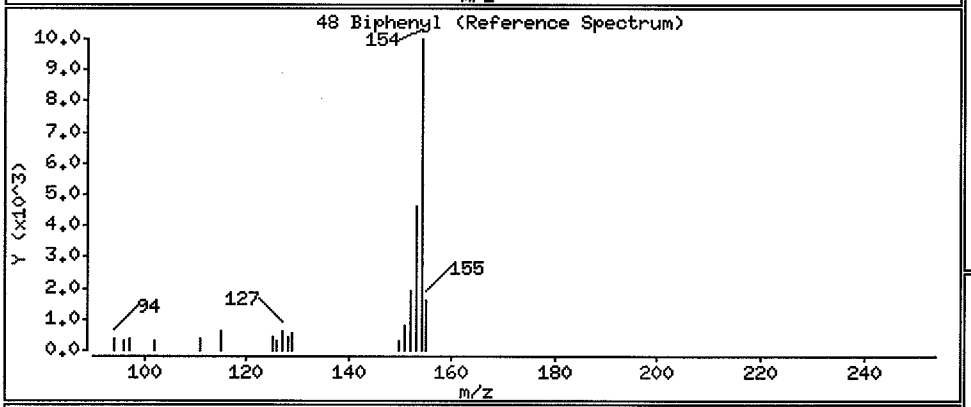
Column diameter: 0.25

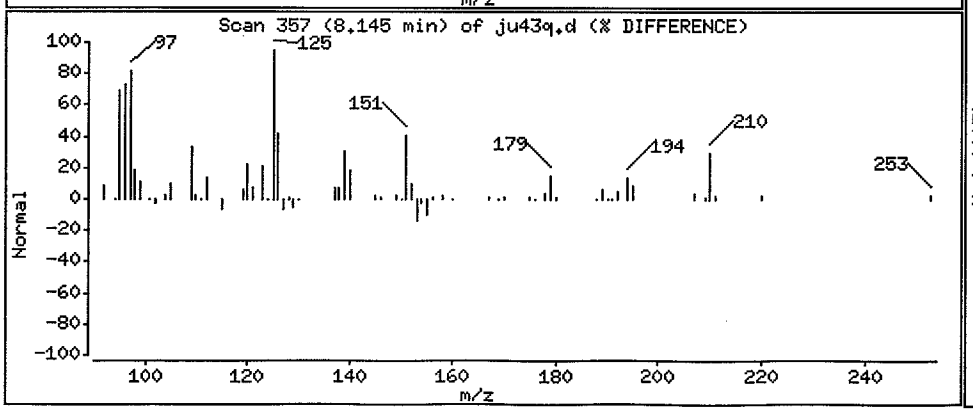
48 Biphenyl

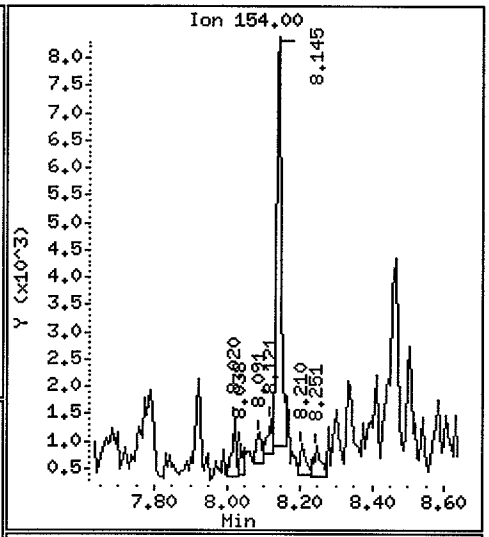
Concentration: 3.429 ug/kg

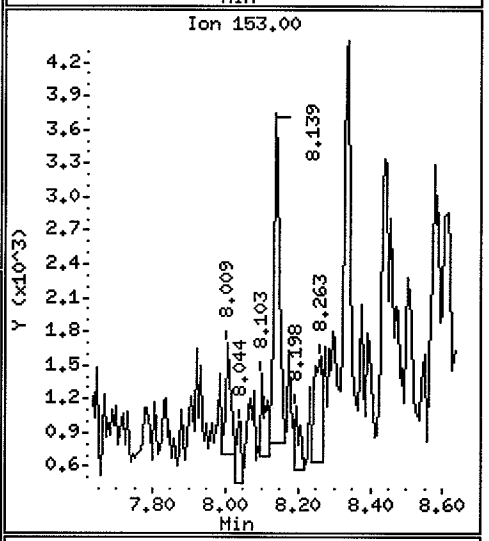


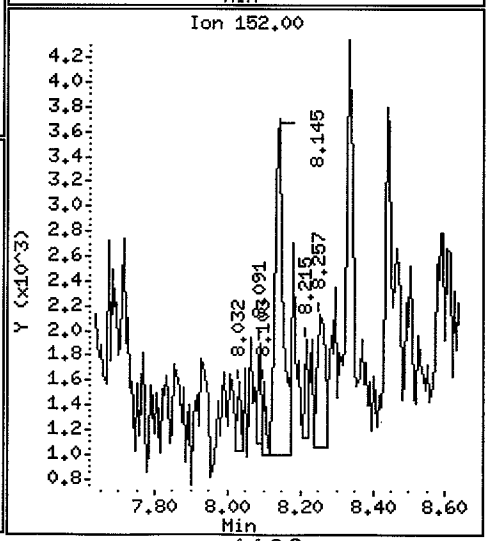












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

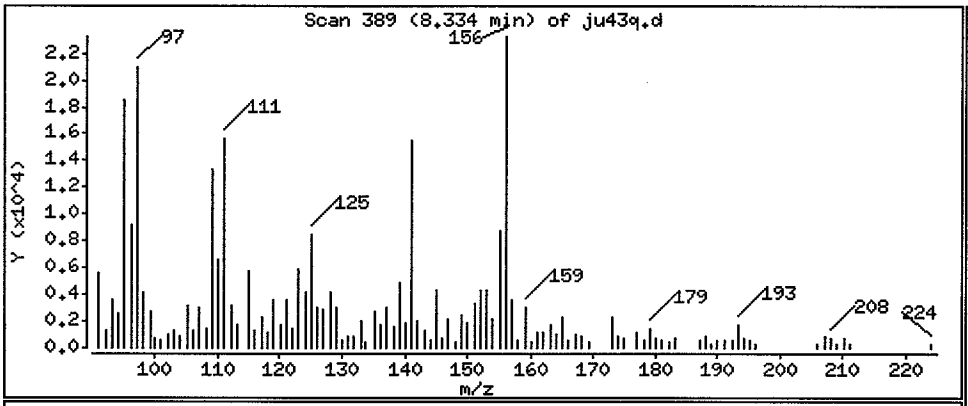
Operator: VTS

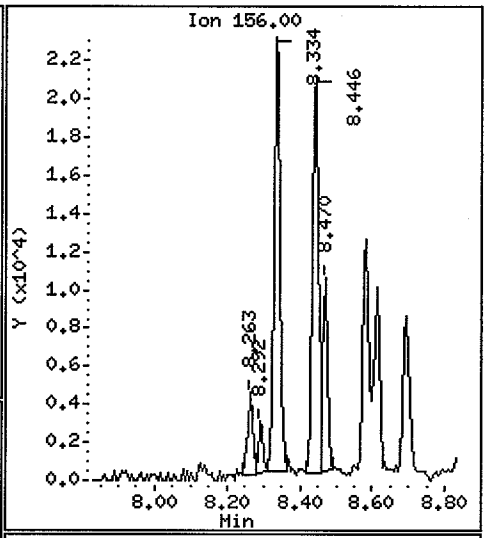
Column phase: ZB-5

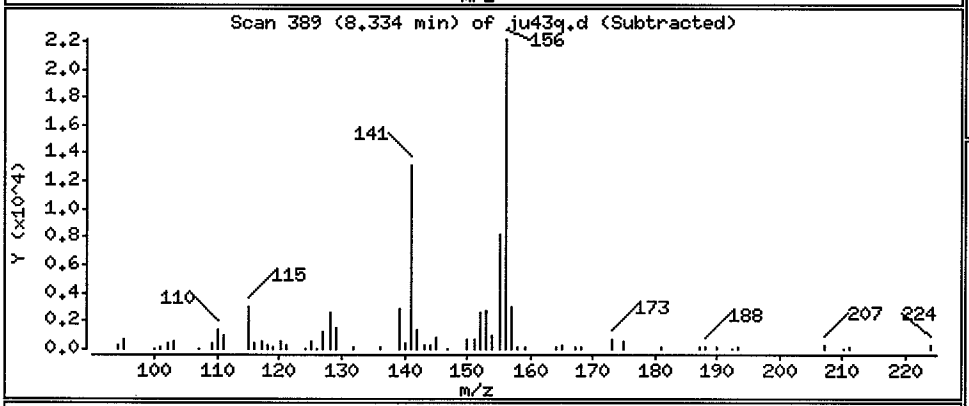
Column diameter: 0.25

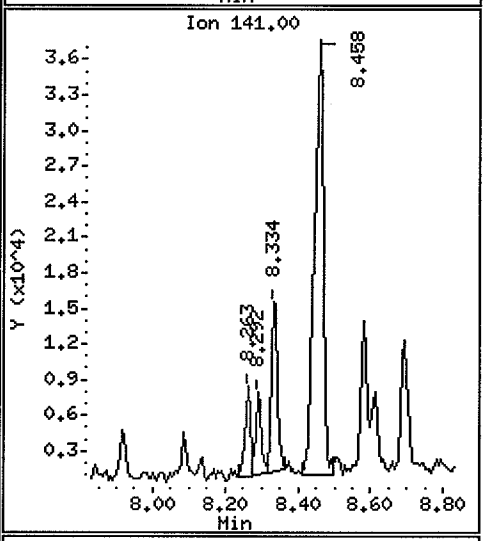
49 2,6-Dimethylnaphthalene

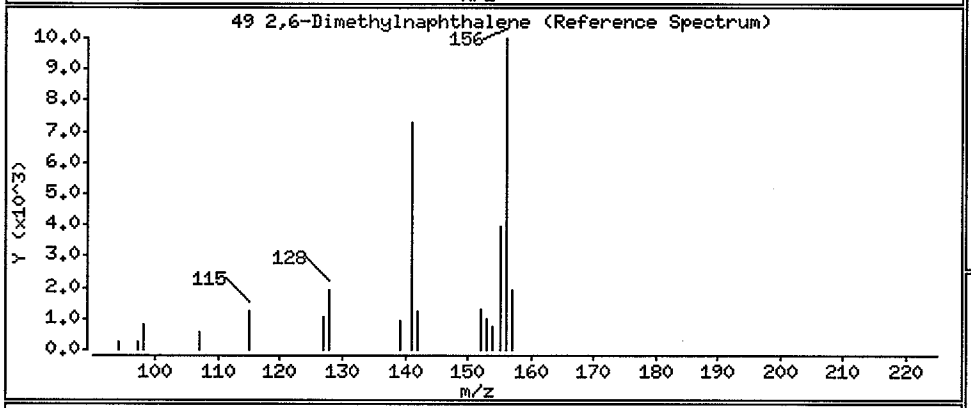
Concentration: 16.42 ug/kg

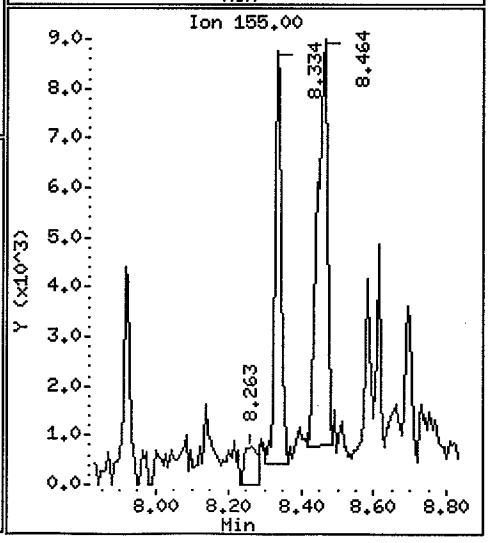


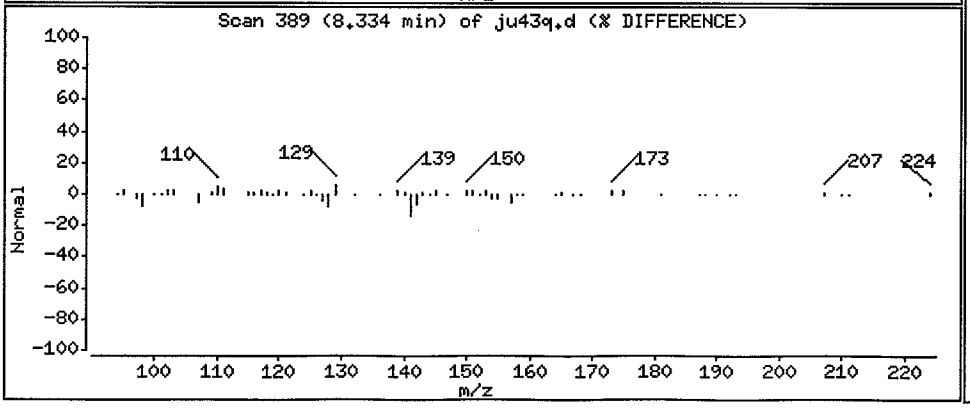












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

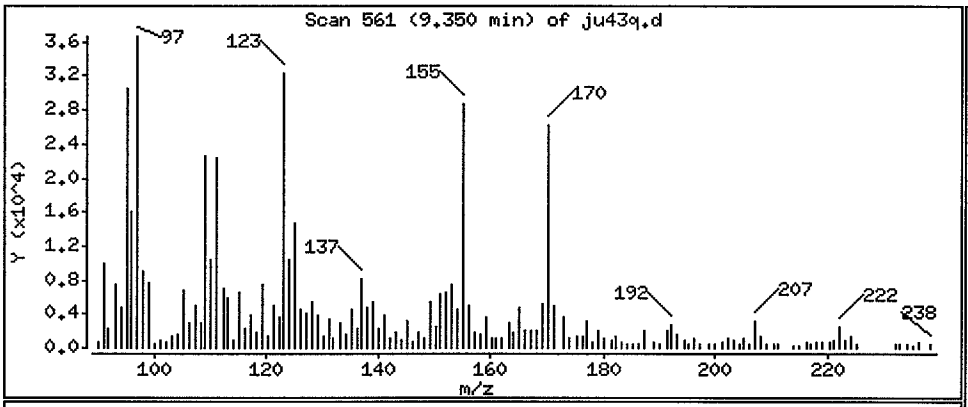
Operator: VTS

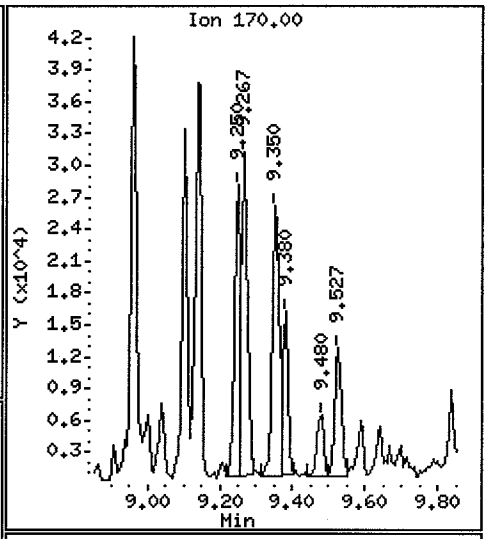
Column phase: ZB-5

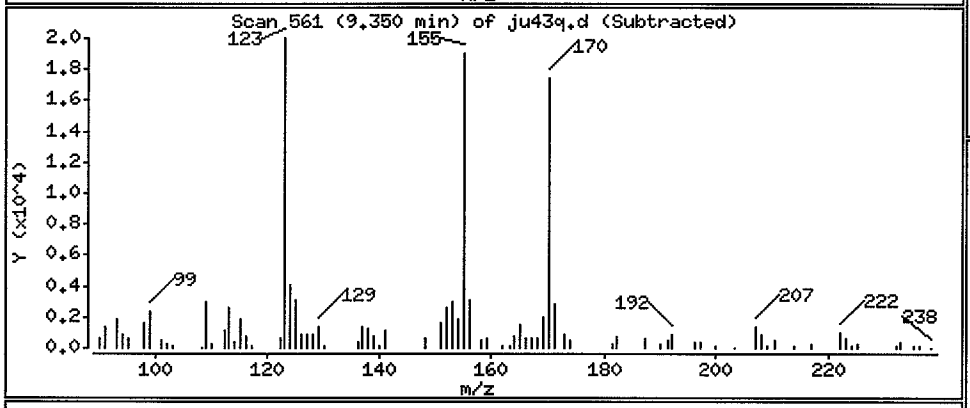
Column diameter: 0.25

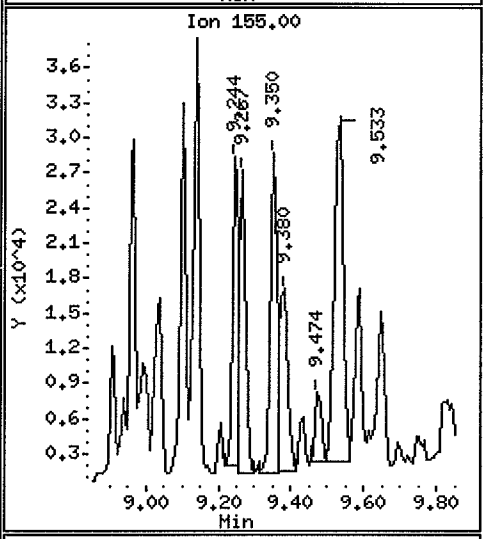
50 2,3,5-Trimethylnaphthalene

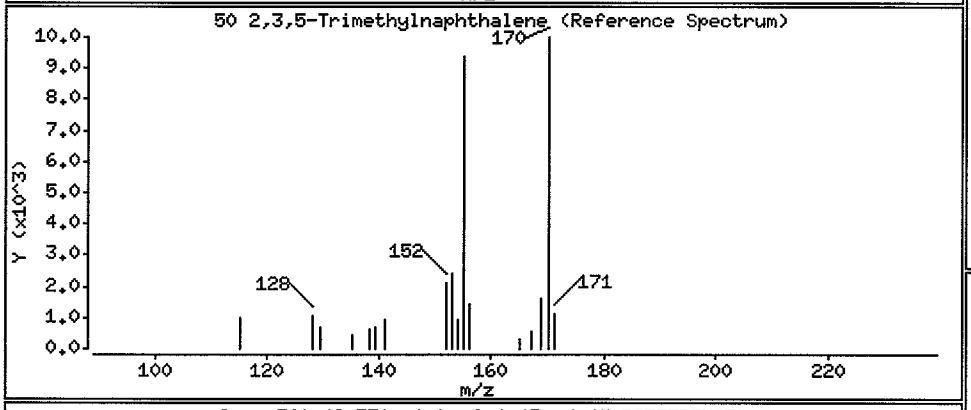
Concentration: 31.09 ug/kg

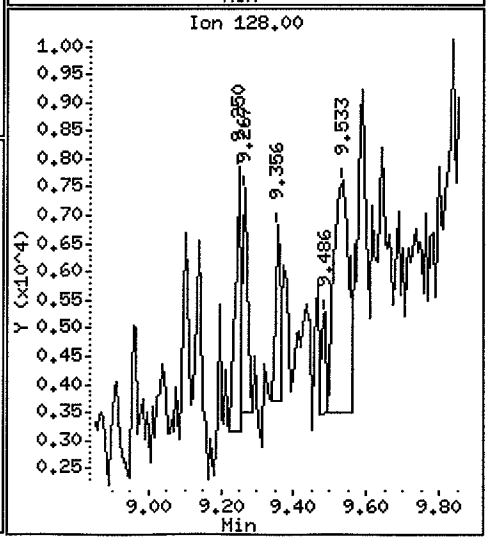


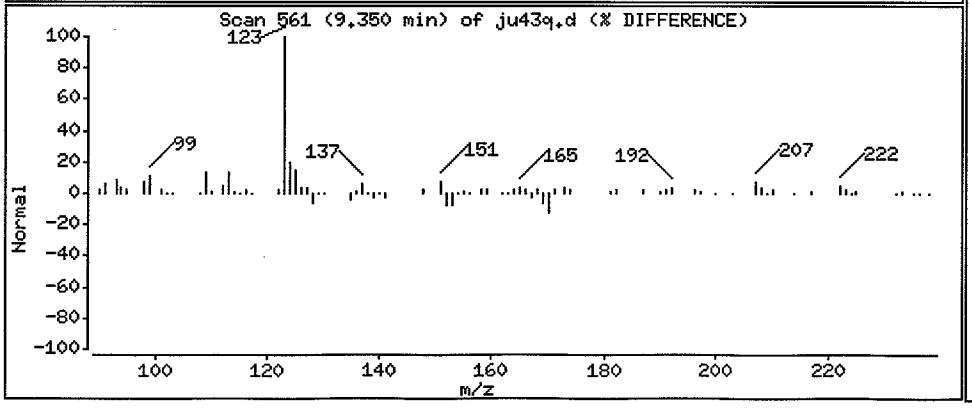












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

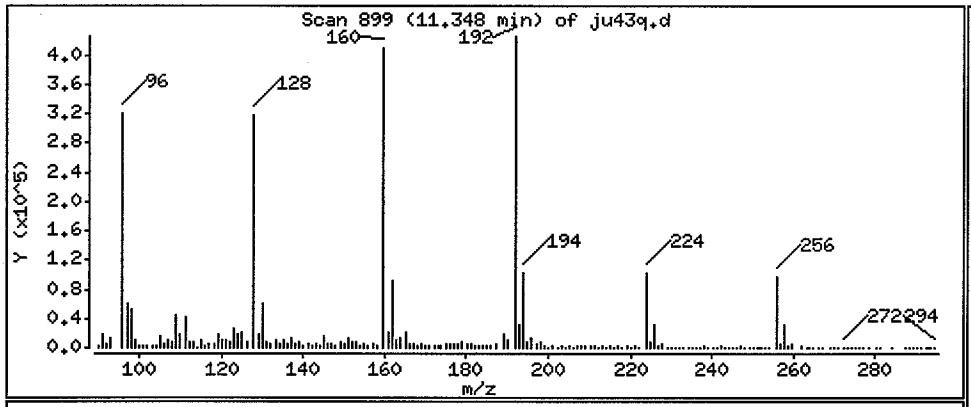
Operator: VTS

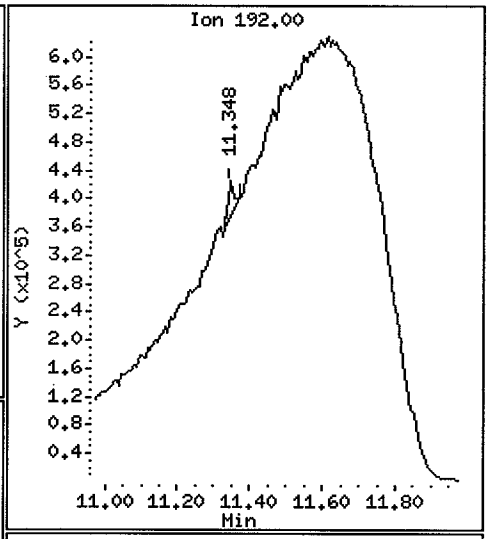
Column phase: ZB-5

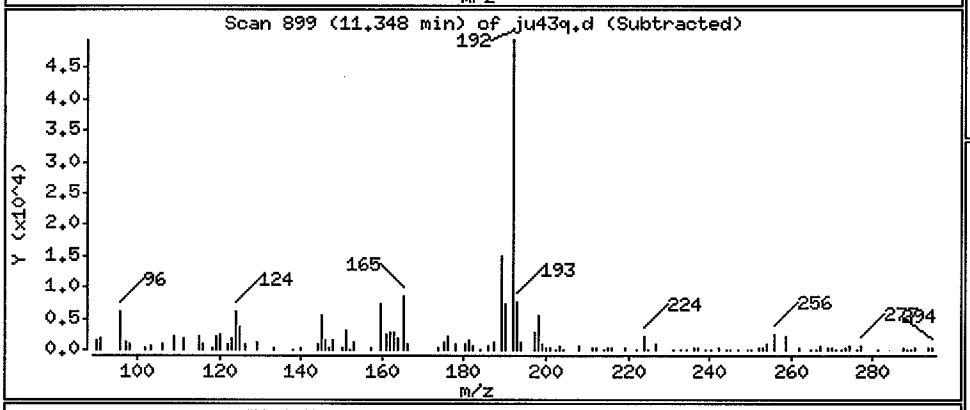
Column diameter: 0.25

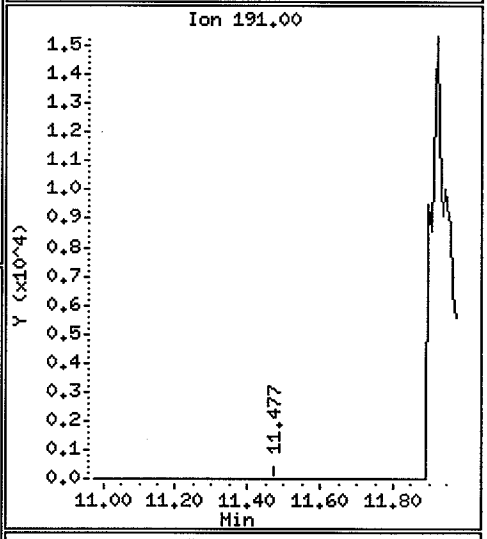
51 1-Methylphenanthrene

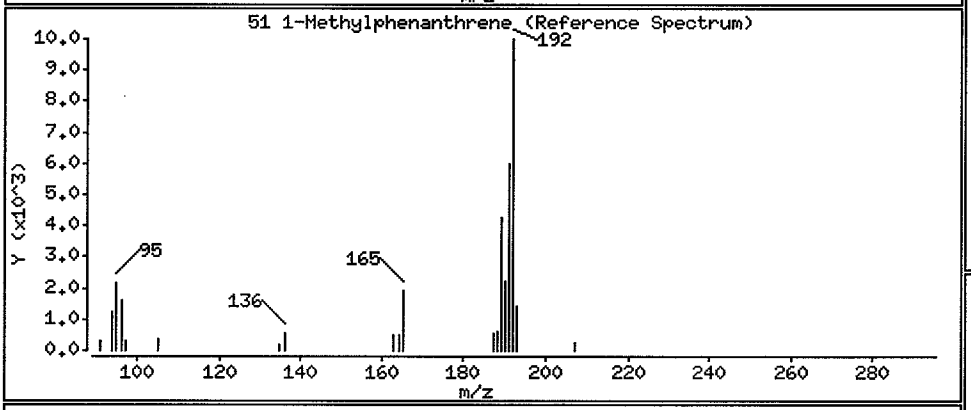
Concentration: 27.89 ug/kg

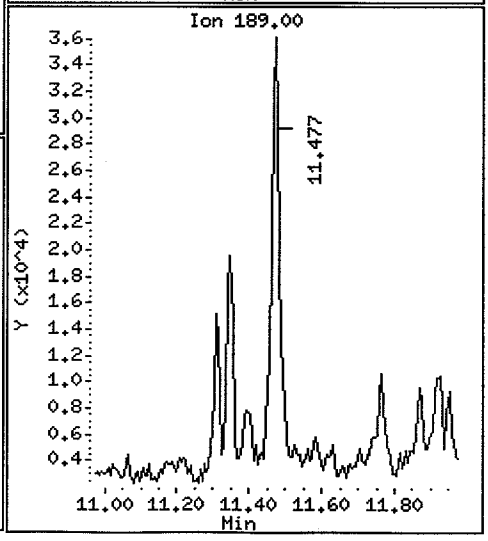


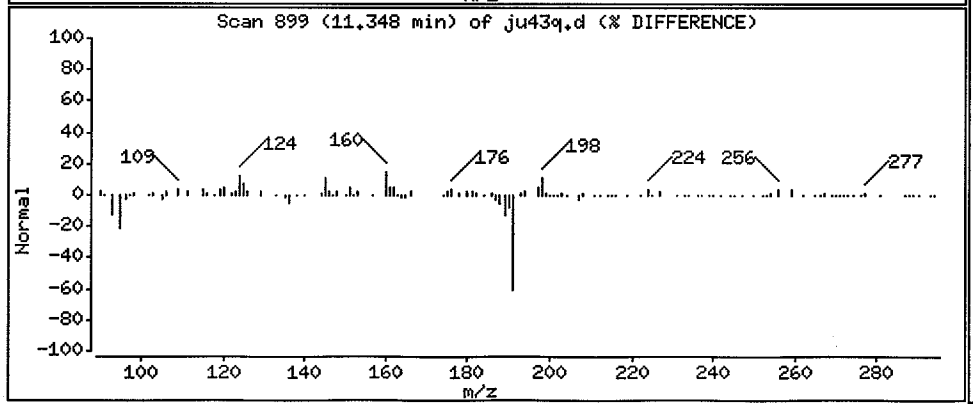












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

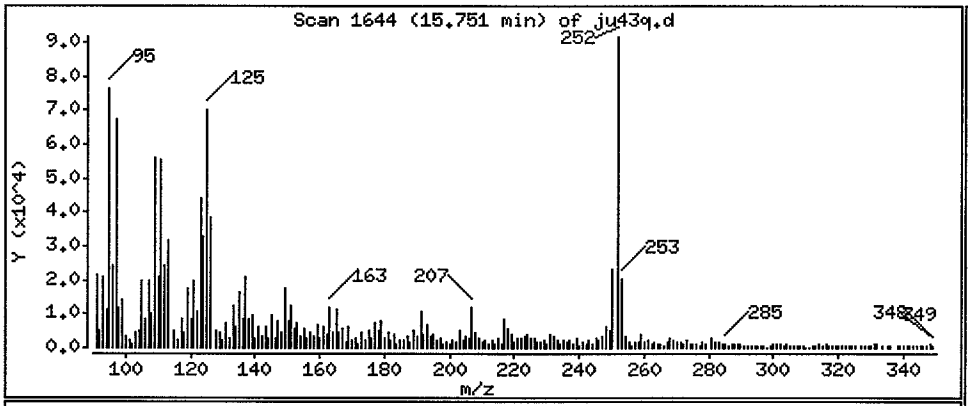
Operator: VTS

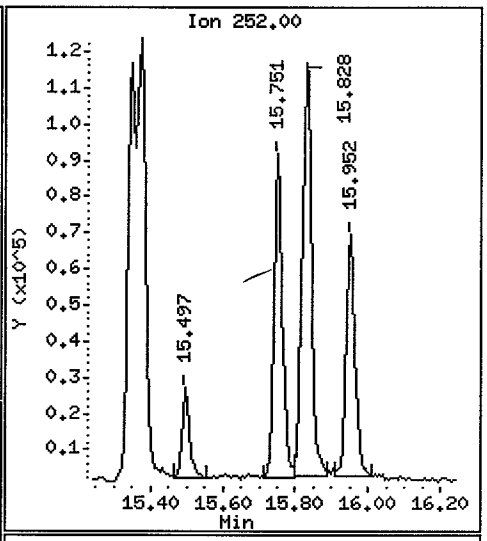
Column phase: ZB-5

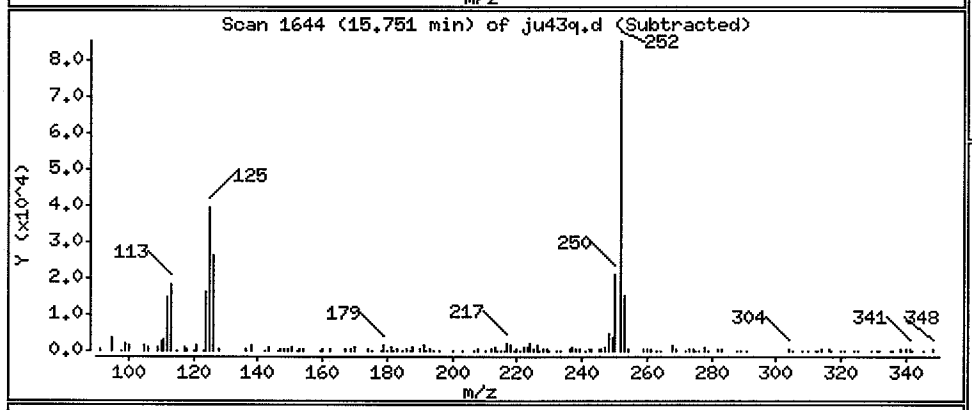
Column diameter: 0.25

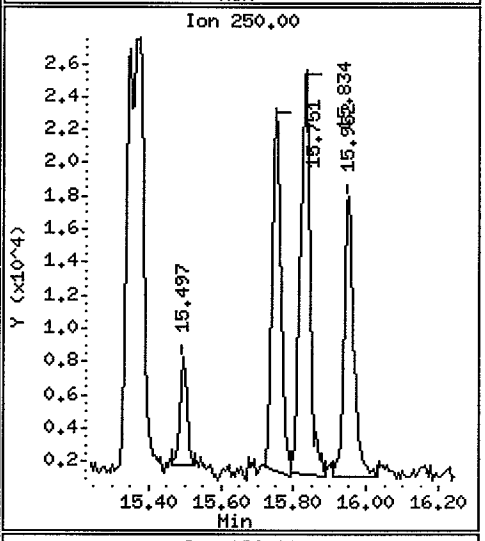
52 Benzo(e)pyrene

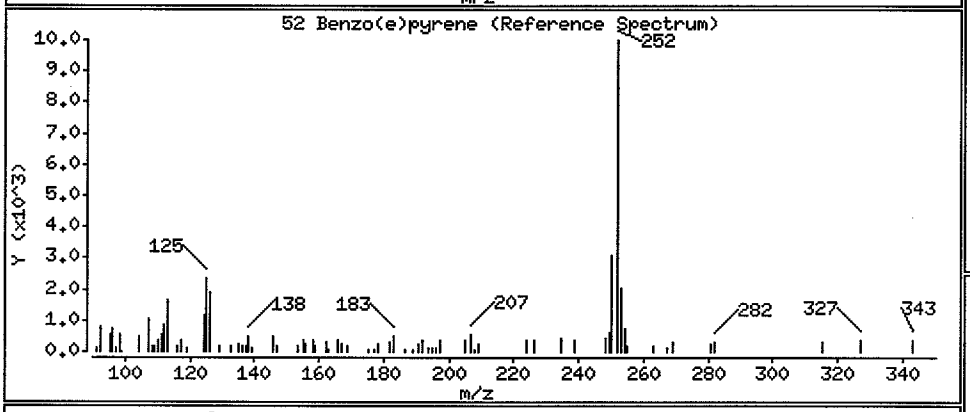
Concentration: 78.03 ug/kg

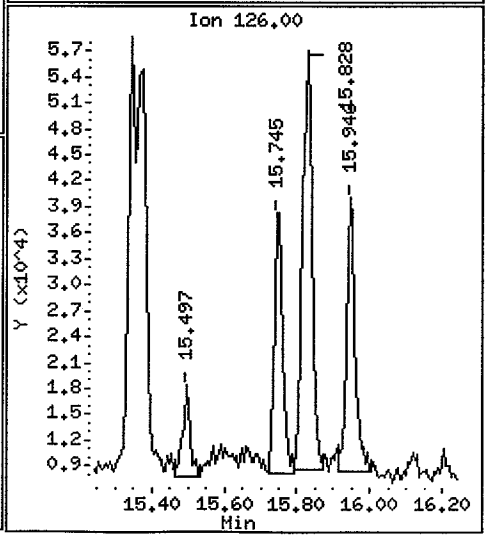


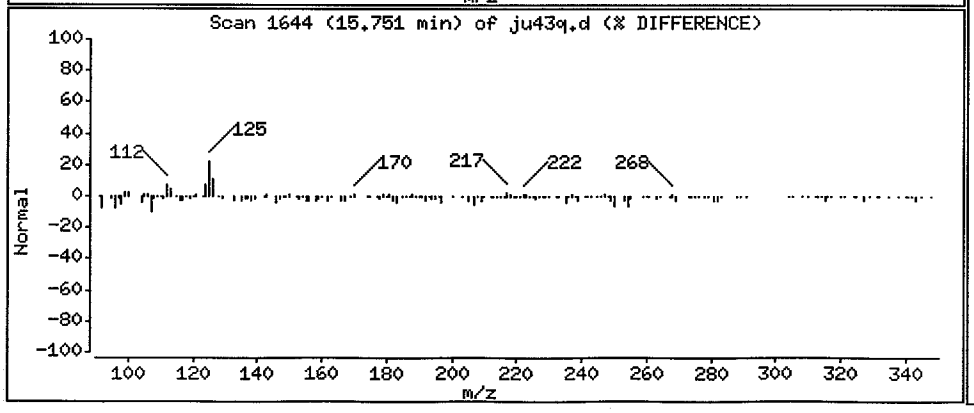












Data File: /chem3/nt1.i/20060912.b/ju43q.d

Date : 12-SEP-2006 21:41

Client ID: T4-S3-03-F

Instrument: nt1.i

Sample Info: JU43Q

Volume Injected (uL): 1.0

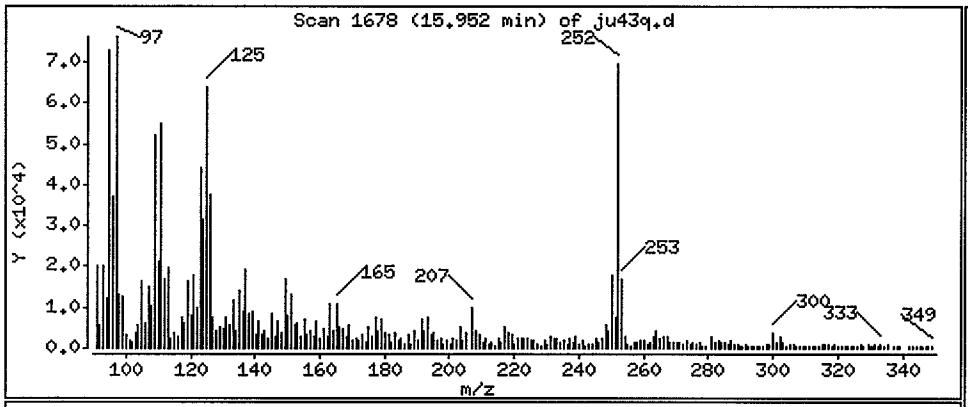
Operator: VTS

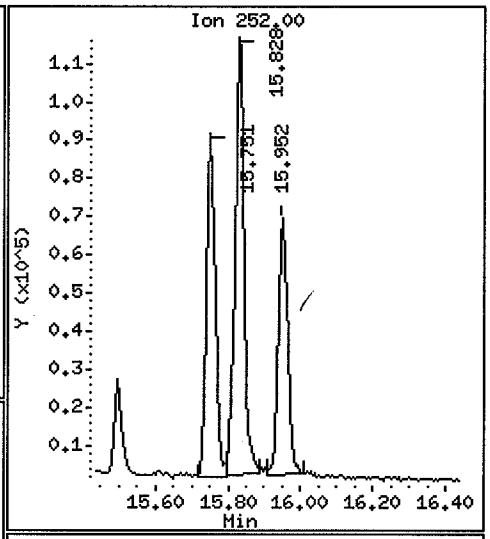
Column phase: ZB-5

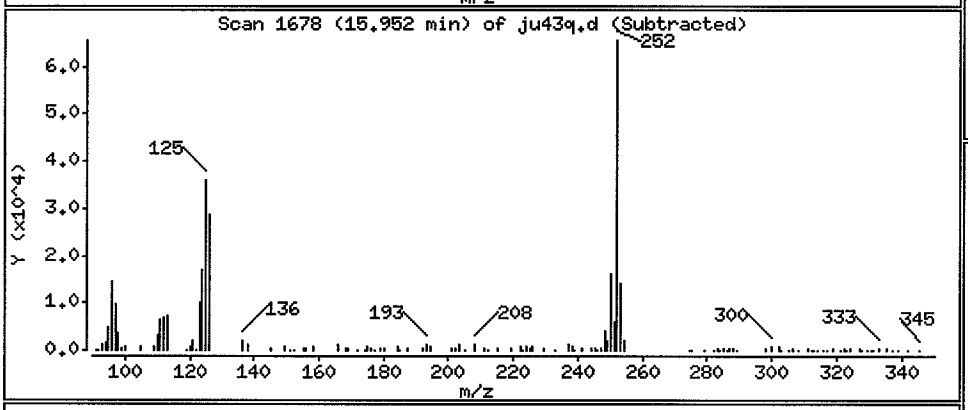
Column diameter: 0.25

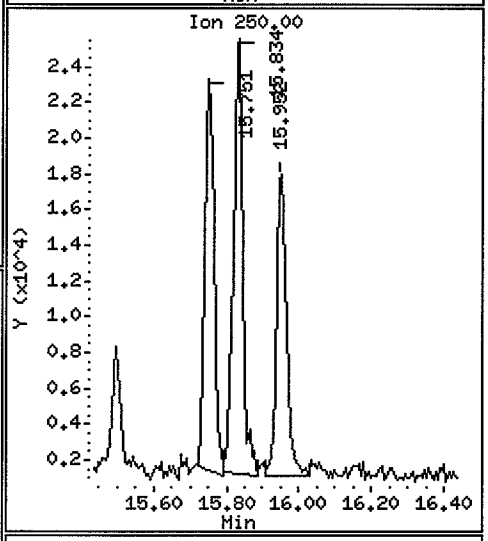
53 Perylene

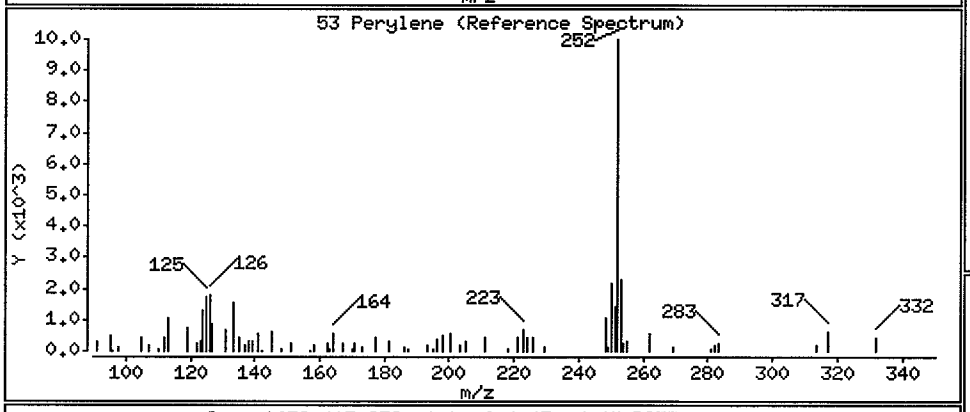
Concentration: 67.03 ug/kg

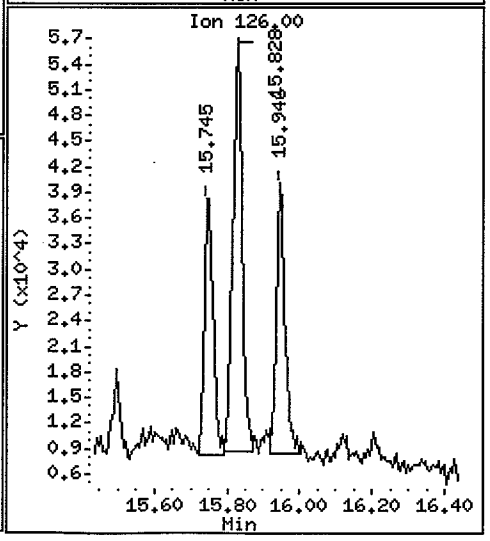


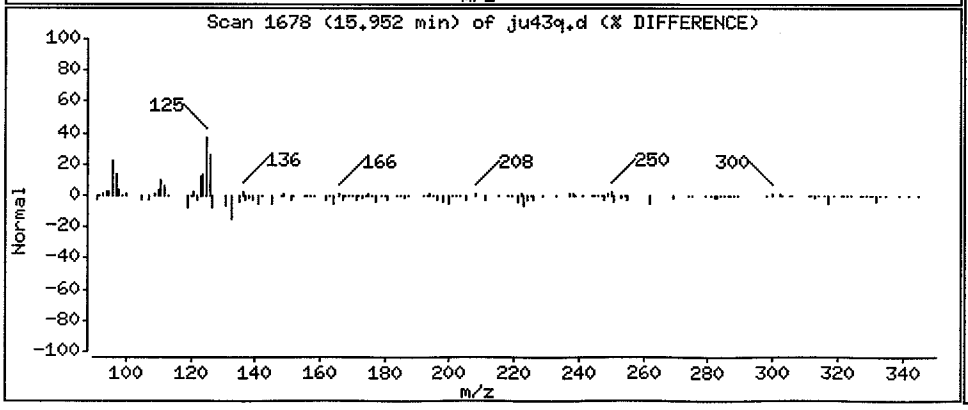












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-03-G**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JU43R
LIMS ID: 06-15862
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 22:06
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 29.3%
pH: 5.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	26
91-57-6	2-Methylnaphthalene	4.8	23
90-12-0	1-Methylnaphthalene	4.8	12
208-96-8	Acenaphthylene	4.8	12
83-32-9	Acenaphthene	4.8	44
86-73-7	Fluorene	4.8	25
85-01-8	Phenanthrene	4.8	270
120-12-7	Anthracene	4.8	46
206-44-0	Fluoranthene	4.8	380
129-00-0	Pyrene	4.8	400
56-55-3	Benzo(a)anthracene	4.8	120
218-01-9	Chrysene	4.8	170
205-99-2	Benzo(b)fluoranthene	4.8	90
207-08-9	Benzo(k)fluoranthene	4.8	110
50-32-8	Benzo(a)pyrene	4.8	120
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	50
53-70-3	Dibenz(a,h)anthracene	4.8	11
191-24-2	Benzo(g,h,i)perylene	4.8	58
198-55-0	Perylene	4.9	90
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.8	30
832-69-9	1-Methylphenanthrene	52	< 52 Y
192-97-2	Benzo(e)pyrene	4.8	78
2245-38-7	2,3,5-Trimethylnaphthalene	4.8	45

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.3%
d14-Dibenzo(a,h)anthracen	62.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43r.d
Lab Smp Id: JU43R Client Smp ID: T4-S3-03-G
Inj Date : 12-SEP-2006 22:06
Operator : VTS Inst ID: nt1.i
Smp Info : JU43R
Misc Info : 06-15862
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 20
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	14.60000	Weight of sample extracted (g)
M	29.30000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
* 1 Naphthalene-d8	136	6.813	6.808	(1.000)	343599	2.00000		
2 Naphthalene	128	6.831	6.832	(1.003)	89140	0.53999	26.16	
$ 3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	195197	2.29101	111.0	
4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	41996	0.47866	23.19	
5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	24044	0.25254	12.23	
7 Acenaphthylene	152	8.693	8.687	(0.980)	34306	0.24819	12.02	
* 8 Acenaphthene-d10	164	8.870	8.871	(1.000)	168248	2.00000		
9 Acenaphthene	153	8.911	8.906	(1.005)	75053	0.89901	43.55	
10 Dibenzofuran	168	9.100	9.095	(1.026)	27333	0~~.23037~~	11.16	NR
11 Fluorene	166	9.520	9.521	(1.073)	46176	0.50980	24.69	
* 15 Phenanthrene-d10	188	10.684	10.679	(1.000)	211240	2.00000		
16 Phenanthrene	178	10.714	10.709	(1.003)	629554	5.49799	266.3	
17 Anthracene	178	10.767	10.762	(1.008)	108173	0.93667	45.37	
19 Fluoranthene	202	12.221	12.198	(1.144)	775956	7.93898	384.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.505	12.488	(0.894)	947616	8.22348	398.3	
	22 Benzo(a)anthracene	228	13.970	13.965	(0.998)	239597	2.44085	118.2	
*	23 Chrysene-d12	240	13.994	13.989	(1.000)	163729	2.00000		
	24 Chrysene	228	14.029	14.018	(1.003)	325602	3.52985	171.0	
	28 Benzo(b)fluoranthene	252	15.347	15.336	(0.964)	164438	1.84698	89.47	
	29 Benzo(k)fluoranthene	252	15.377	15.366	(0.966)	211711	2.27688	110.3	
	30 Benzo(a)pyrene	252	15.832	15.821	(0.995)	198011	2.46586	119.4	
*	31 Perylene-d12	264	15.915	15.898	(1.000)	157220	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.830	17.813	(1.120)	89205	1.03479	50.12	
$	32 Dibenz(a,h)anthrancene-d14	292	17.753	17.736	(1.115)	96446	1.87199	90.68	
	34 Dibenz(a,h)anthracene	278	17.818	17.807	(1.120)	16118	0.23069	11.17	
	35 Benzo(g,h,i)perylene	276	18.391	18.380	(1.156)	90964	1.19398	57.84	
	48 Biphenyl	154	8.143	8.138	(0.918)	9776	0.09370	4.539	J
	49 2,6-Dimethylnaphthalene	156	8.338	8.333	(0.940)	48422	0.61439	29.76	
	50 2,3,5-Trimethylnaphthalene	170	9.354	9.355	(1.055)	56965	0.91499	44.32	
	51 1-Methylphenanthrene	192	11.346	11.477	(0.811)	83403	1.07924	52.28	(M) Y
	52 Benzo(e)pyrene	252	15.755	15.744	(0.990)	143472	1.60377	77.69	
	53 Perylene	252	15.956	15.939	(1.003)	154599	1.85205	89.71	

QC Flag Legend

M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43r.d
Lab Smp Id: JU43R
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15862

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-03-G
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	343599	0.60
8 Acenaphthene-d10	169375	84688	338750	168248	-0.67
15 Phenanthrene-d10	232185	116092	464370	211240	-9.02
23 Chrysene-d12	179856	89928	359712	163729	-8.97
31 Perylene-d12	175373	87686	350746	157220	-10.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.05
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.04
31 Perylene-d12	15.90	15.40	16.40	15.91	0.11

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

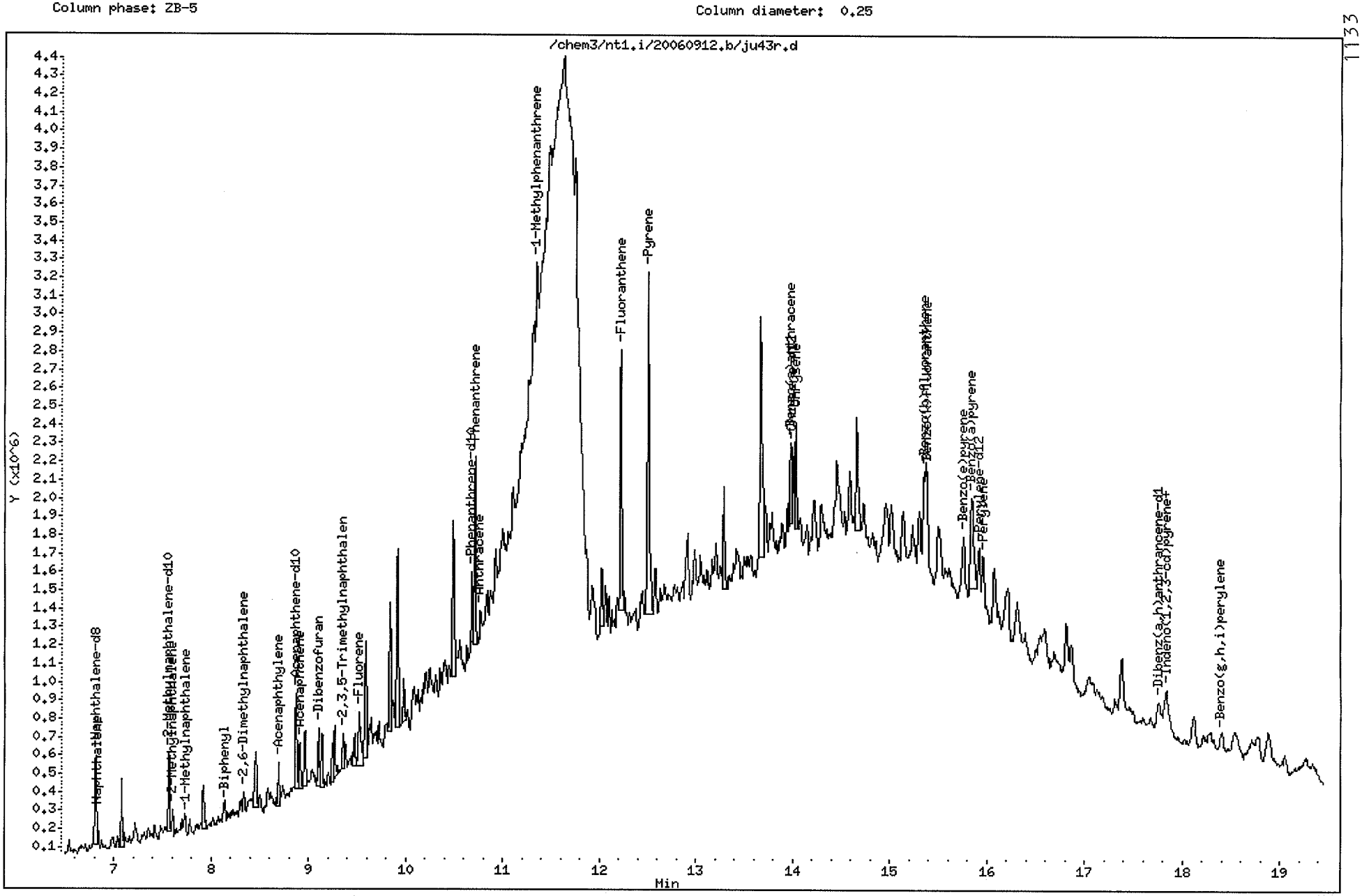
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43R
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15862

Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-03-G
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	145.3	111.0	76.37	32-97
$ 32 Dibenz(a,h)anthran	145.3	90.68	62.40	21-105

Data File: /chem3/nt1.i/20060912.b/ju43r.d
Date : 12-SEP-2006 22:06
Client ID: T4-S3-03-G
Sample Info: JU43R
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

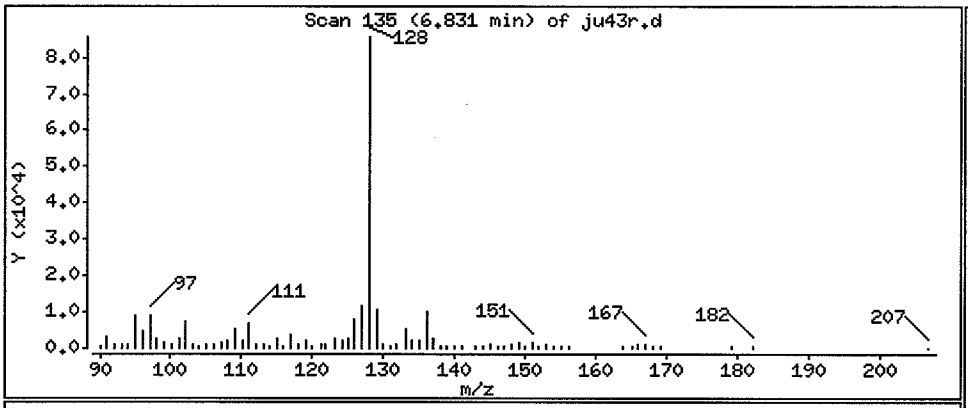
Operator: VTS

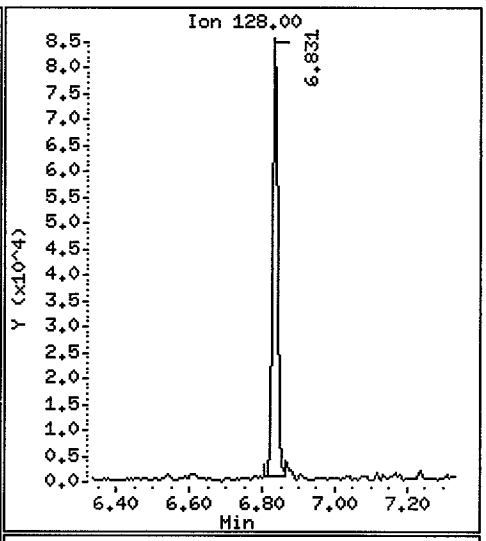
Column phase: ZB-5

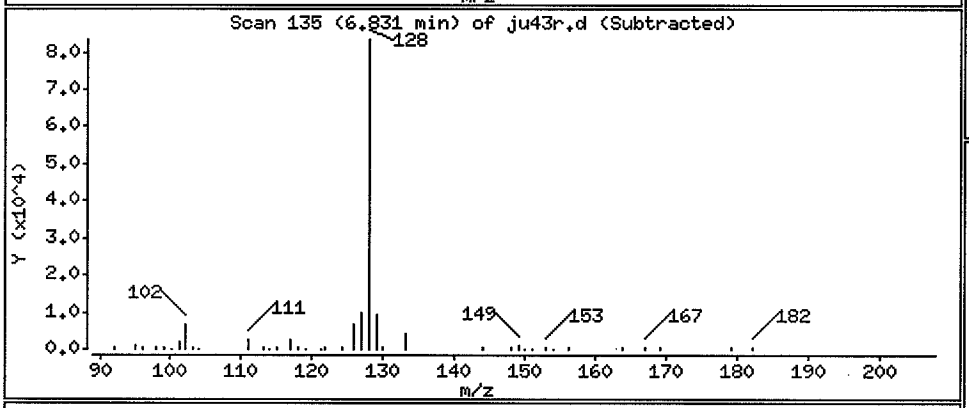
Column diameter: 0.25

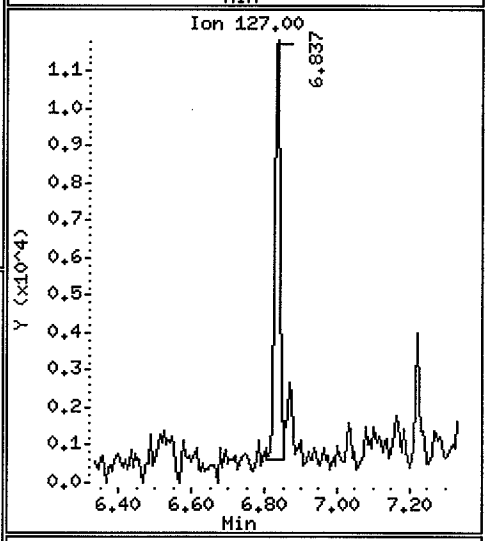
2 Naphthalene

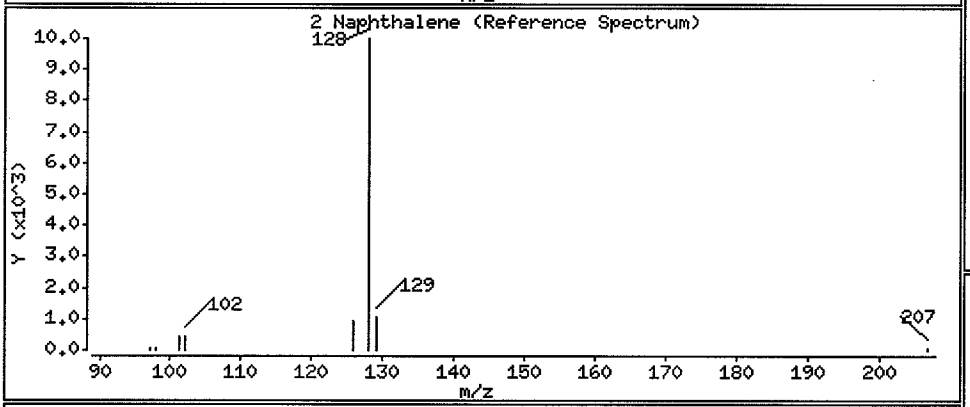
Concentration: 26.16 ug/kg

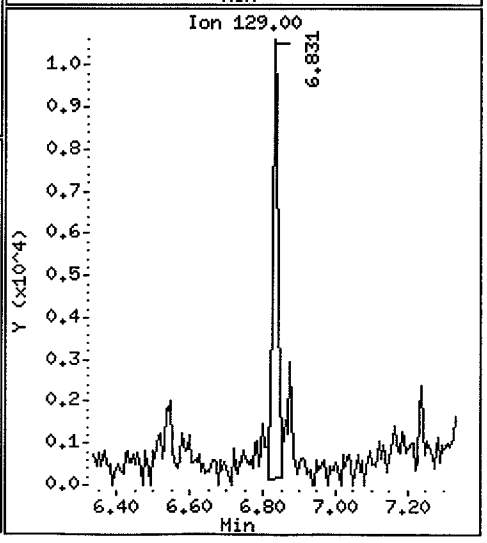


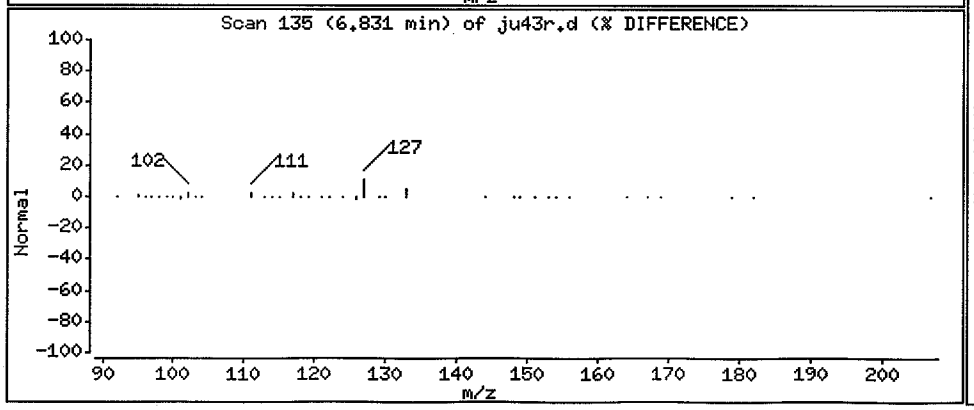












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

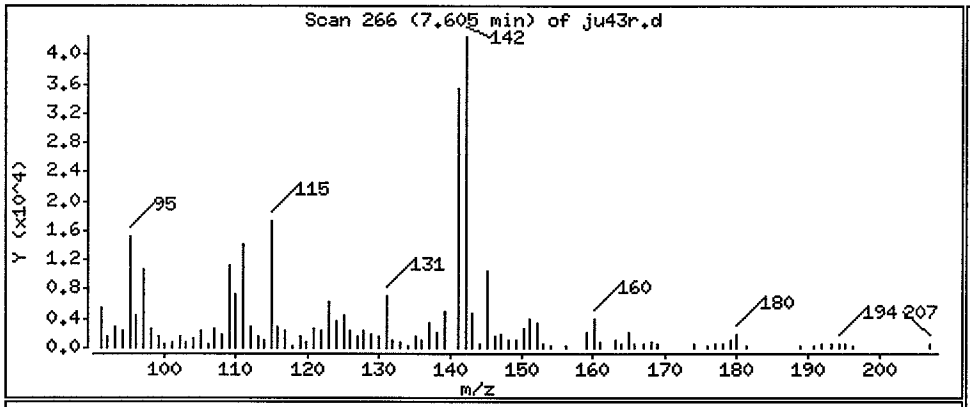
Operator: VTS

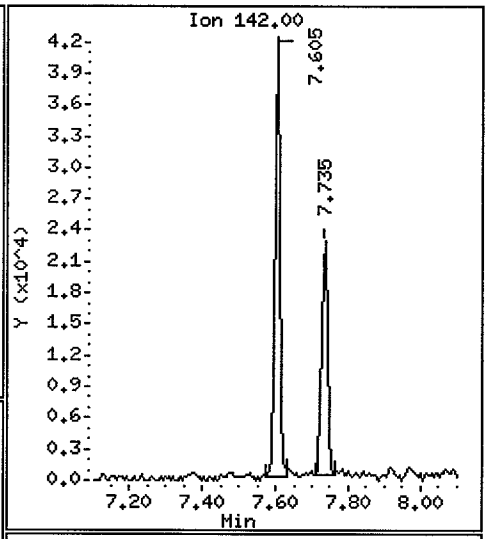
Column phase: ZB-5

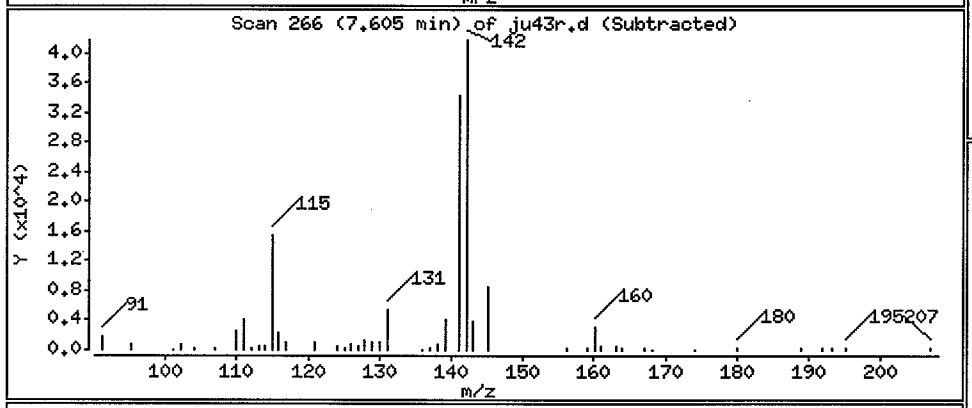
Column diameter: 0.25

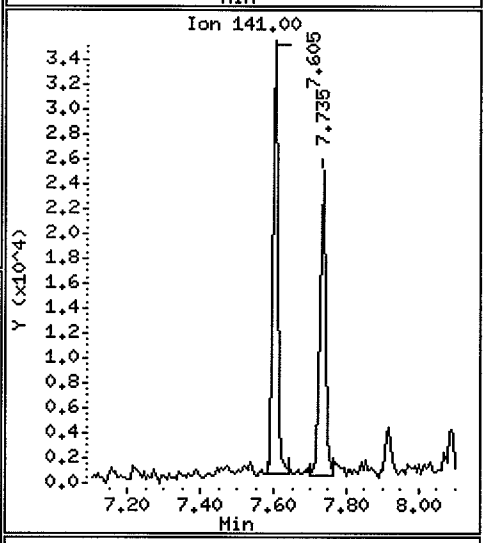
4 2-Methylnaphthalene

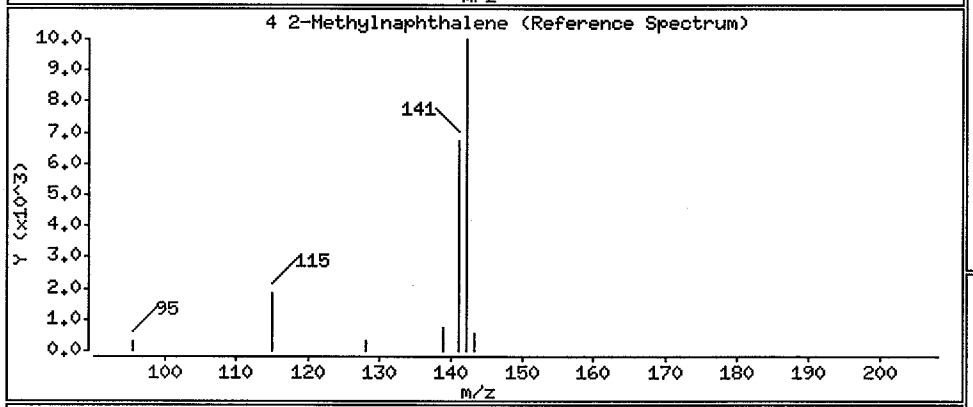
Concentration: 23.19 ug/kg

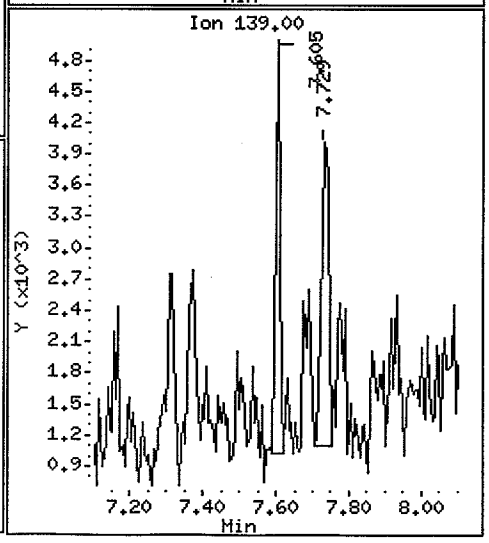


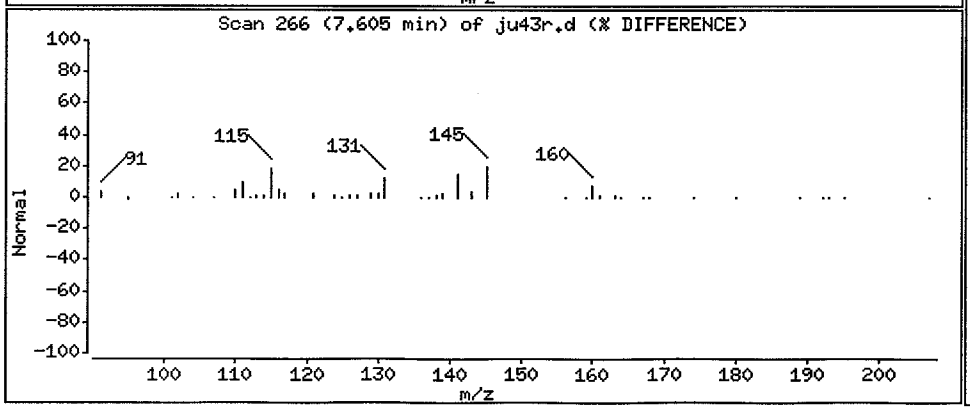












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

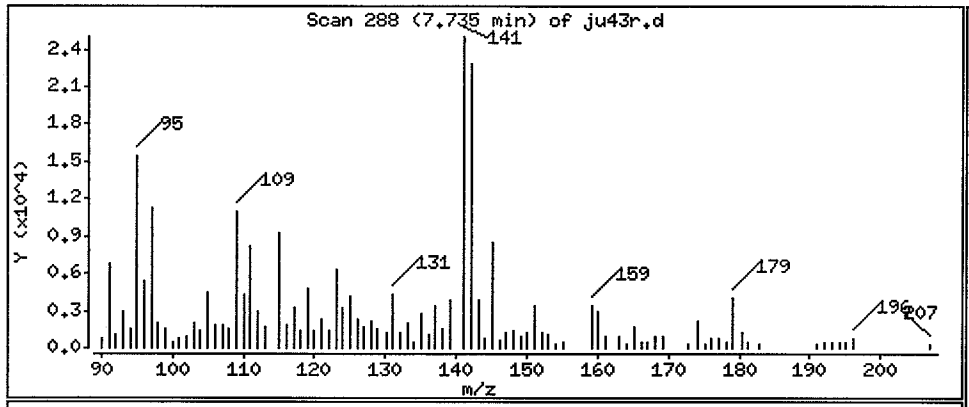
Operator: VTS

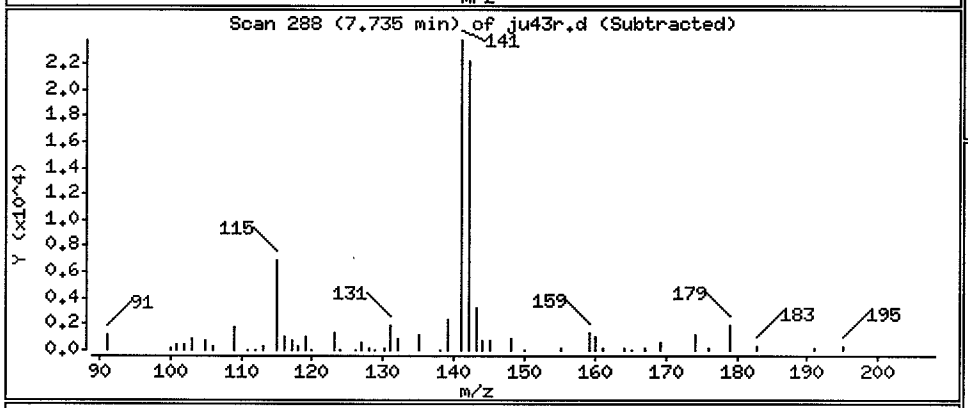
Column phase: ZB-5

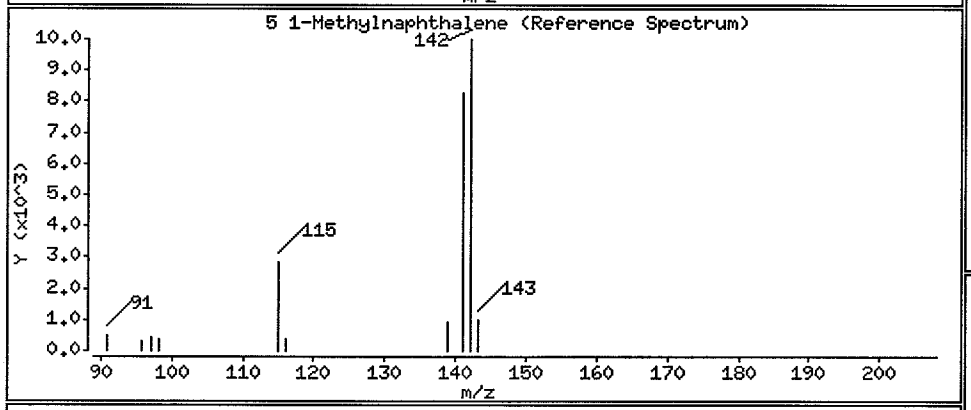
Column diameter: 0.25

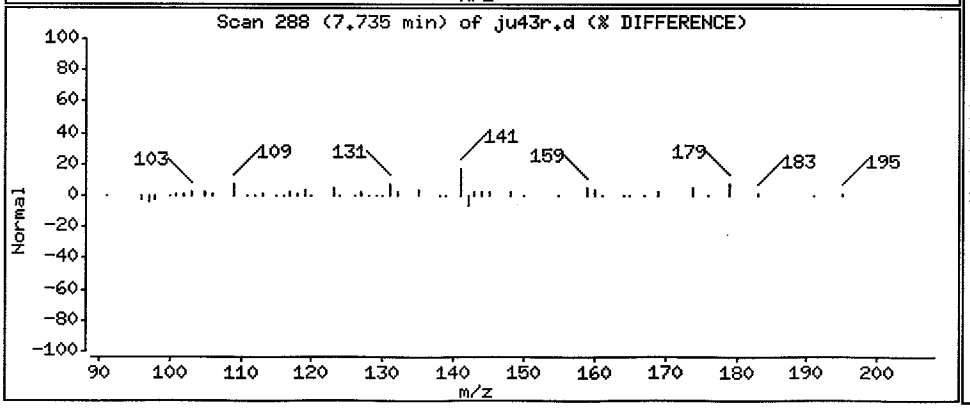
5 1-Methylnaphthalene

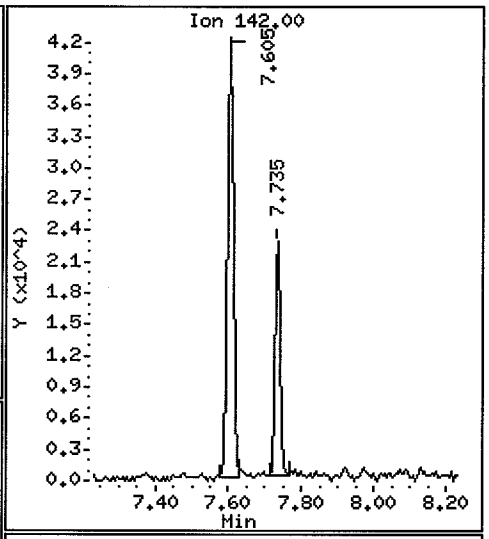
Concentration: 12.23 ug/kg

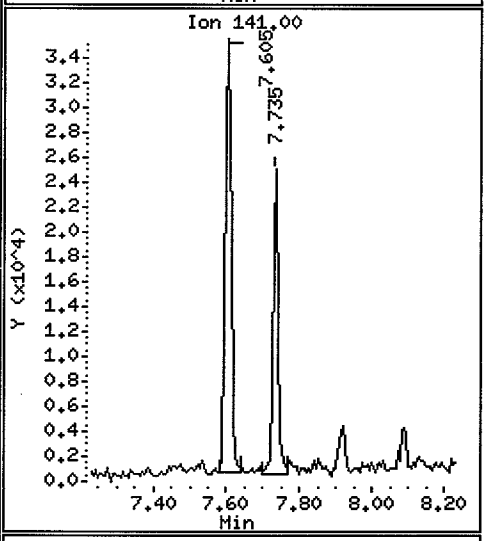


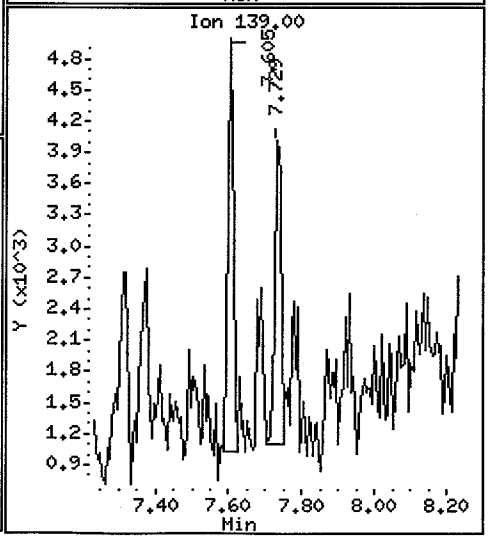












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

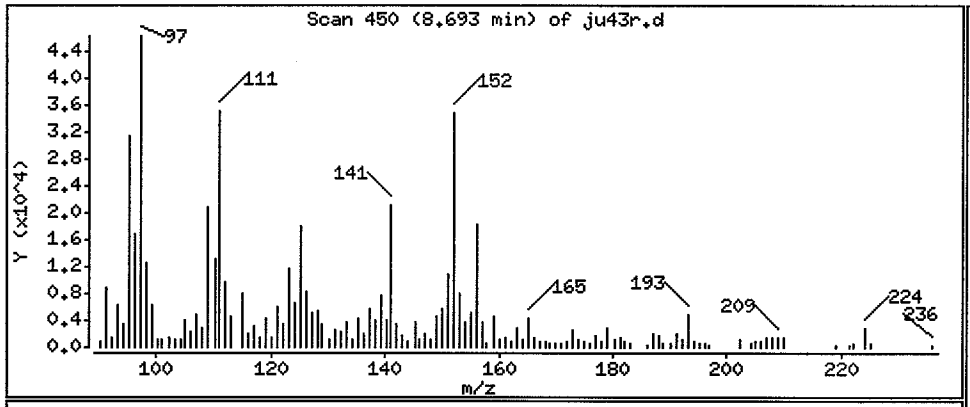
Operator: VTS

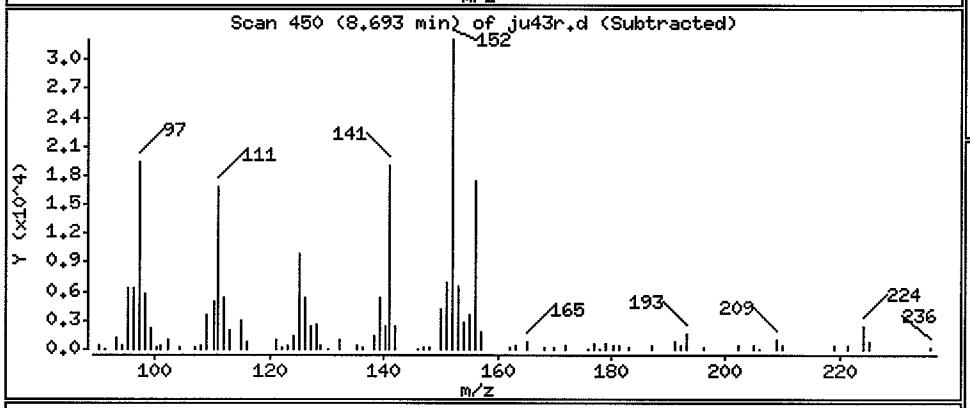
Column phase: ZB-5

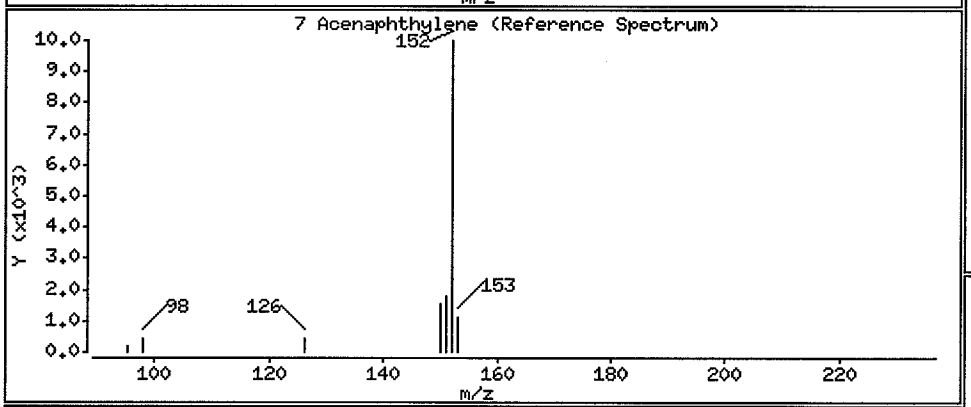
Column diameter: 0.25

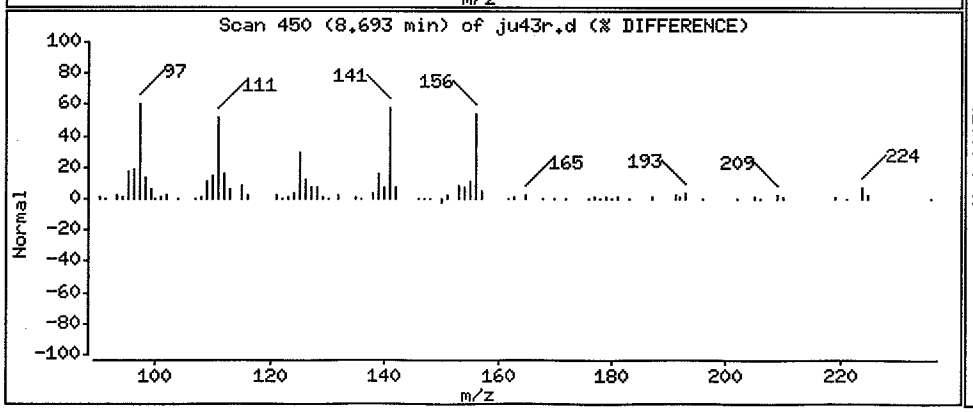
7 Acenaphthylene

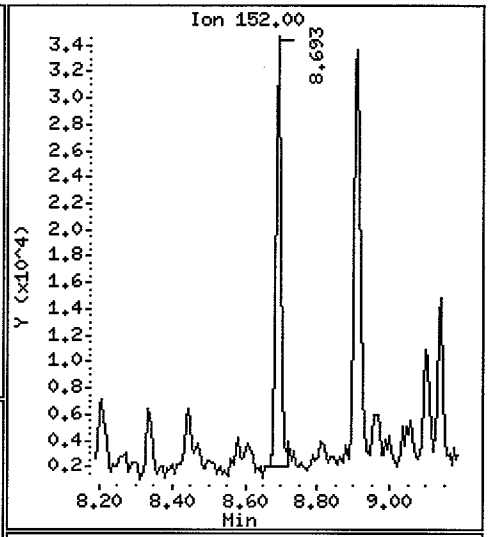
Concentration: 12.02 ug/kg

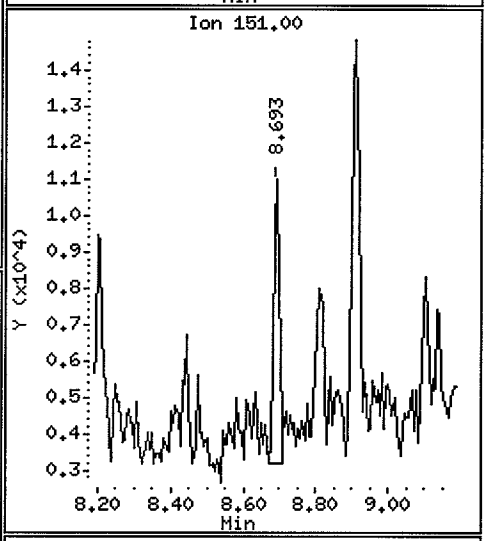


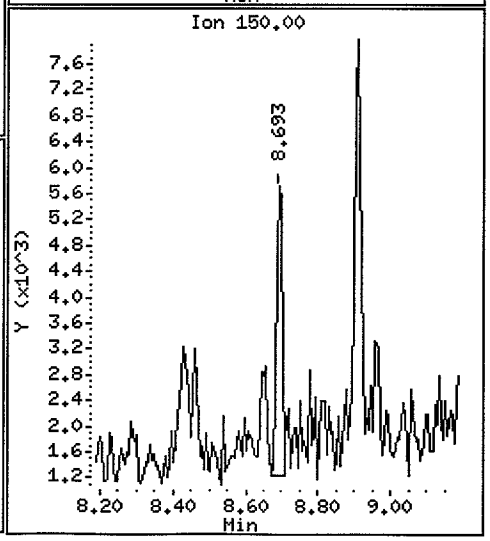












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

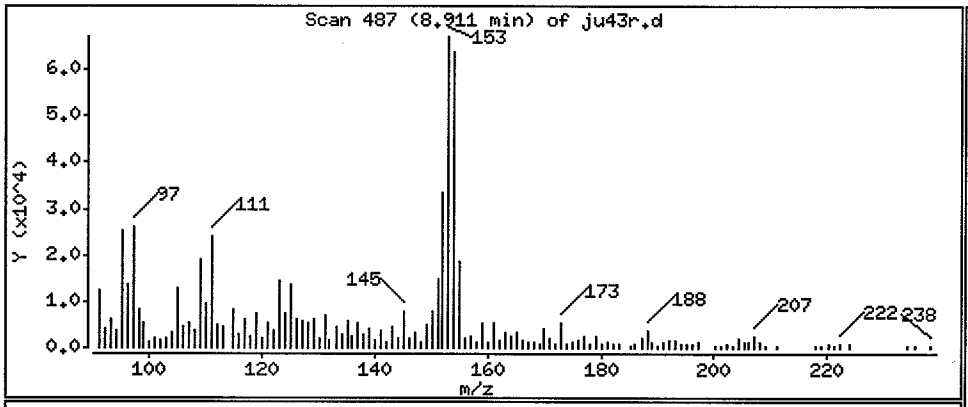
Operator: VTS

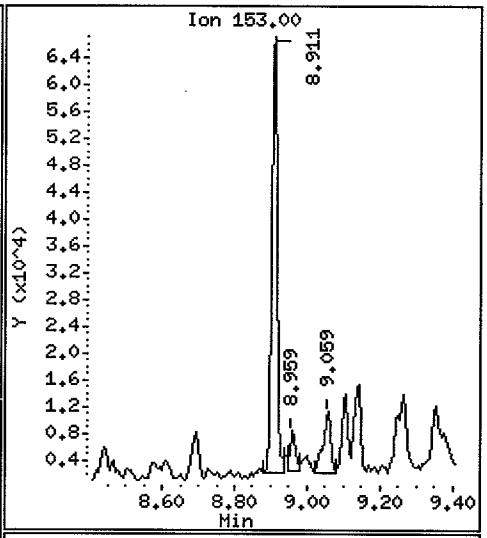
Column phase: ZB-5

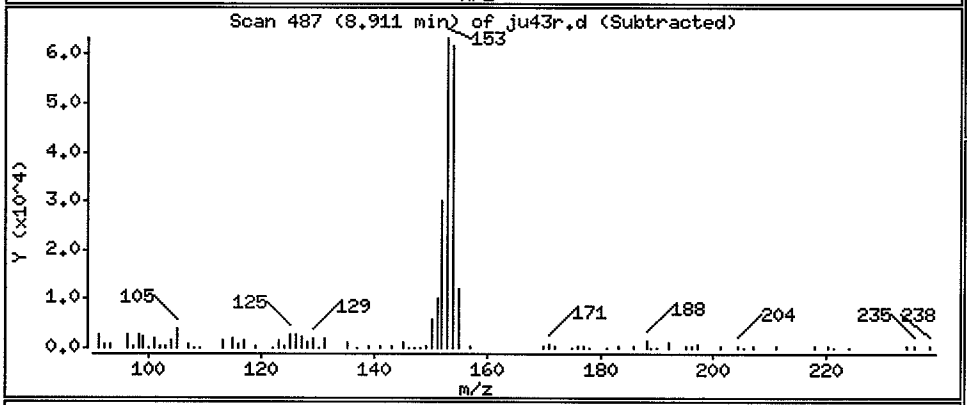
Column diameter: 0.25

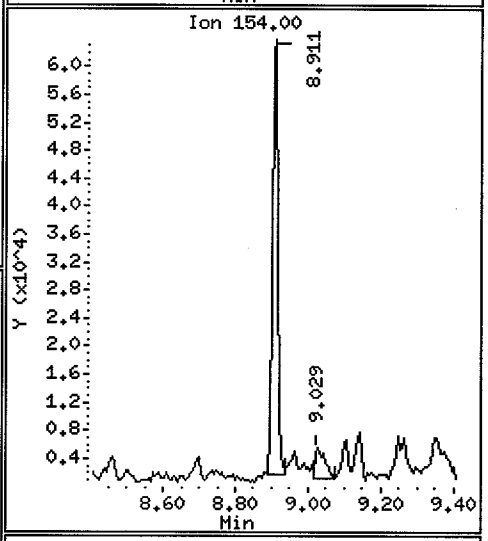
9 Acenaphthene

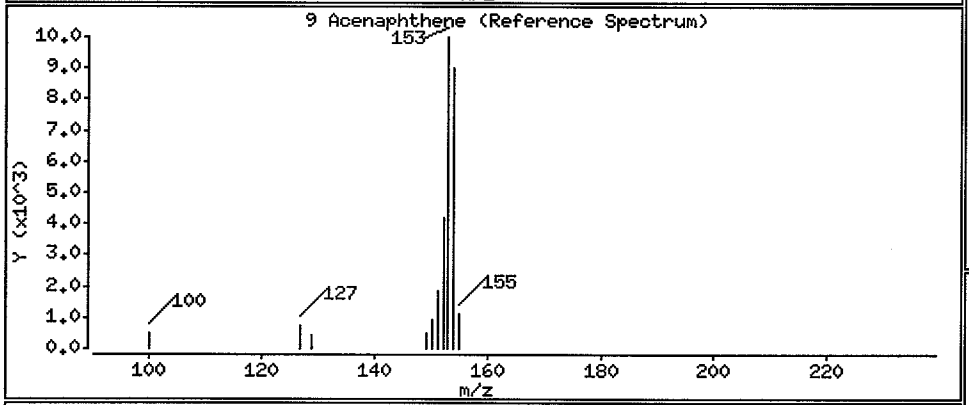
Concentration: 43.55 ug/kg

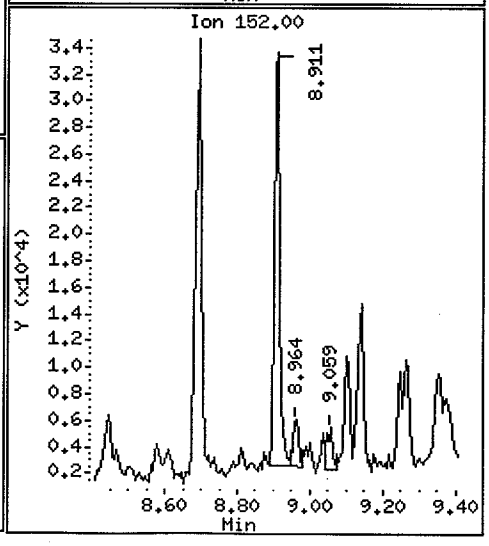


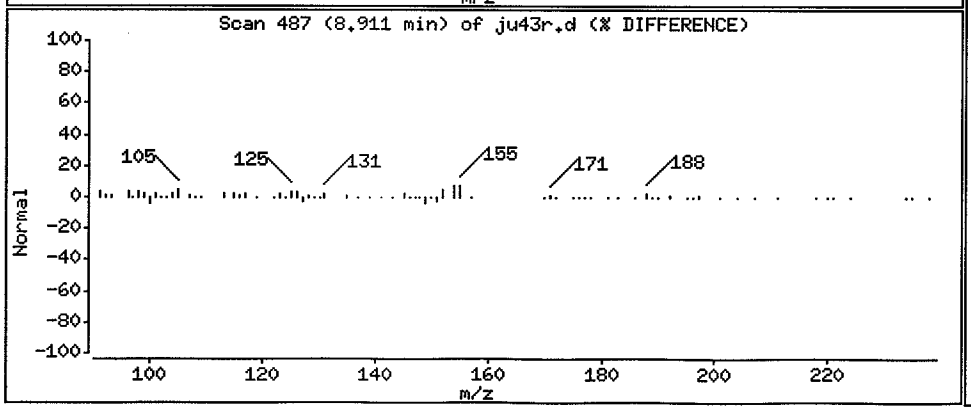












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

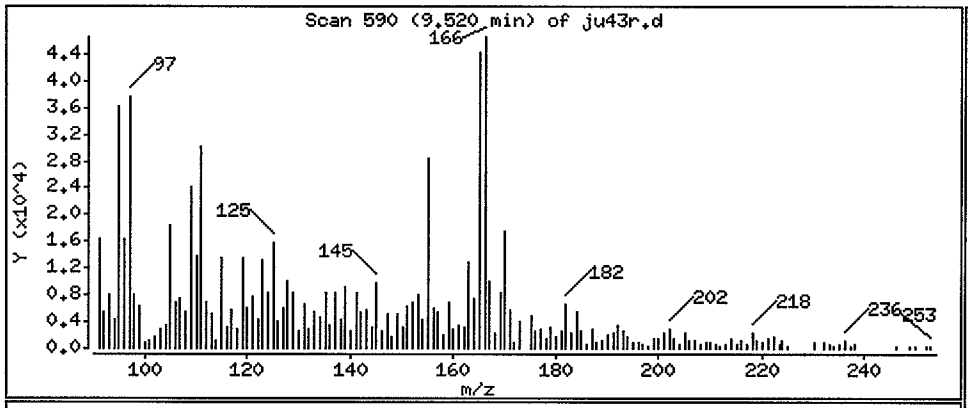
Operator: VTS

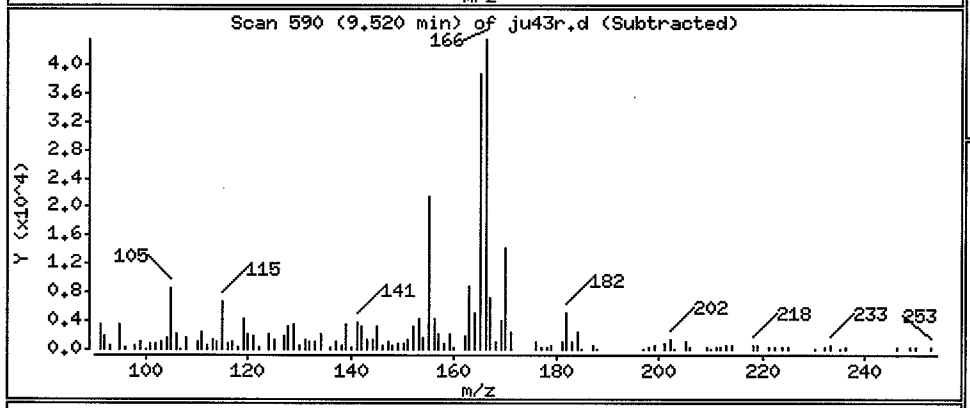
Column phase: ZB-5

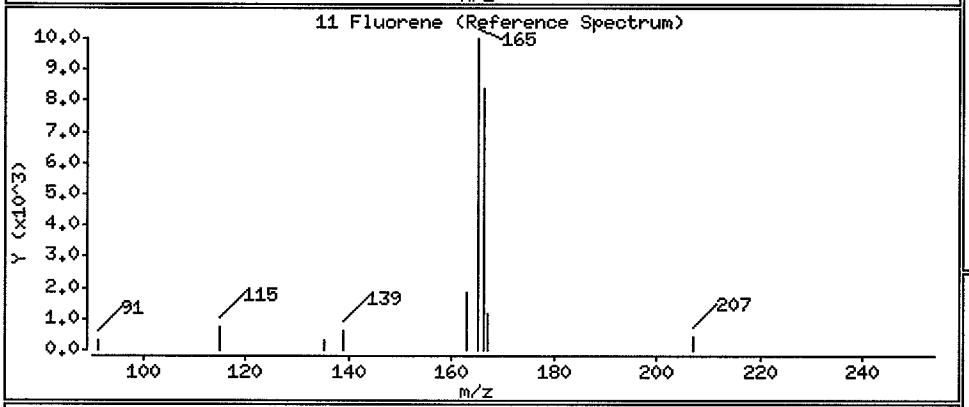
Column diameter: 0.25

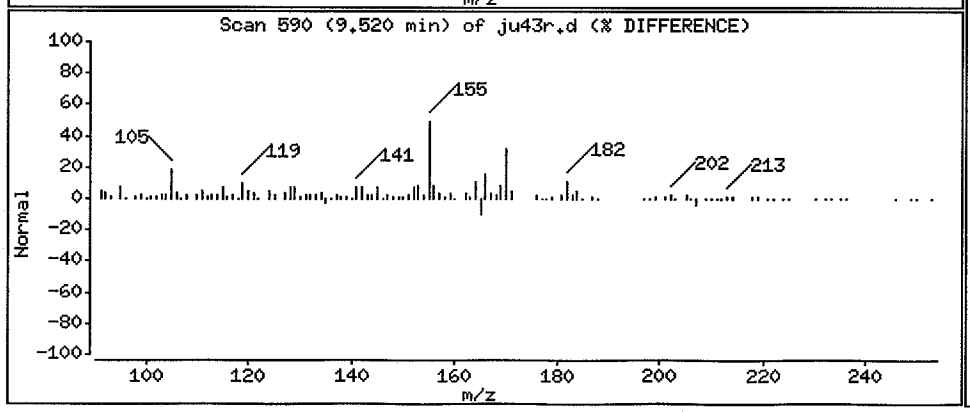
11 Fluorene

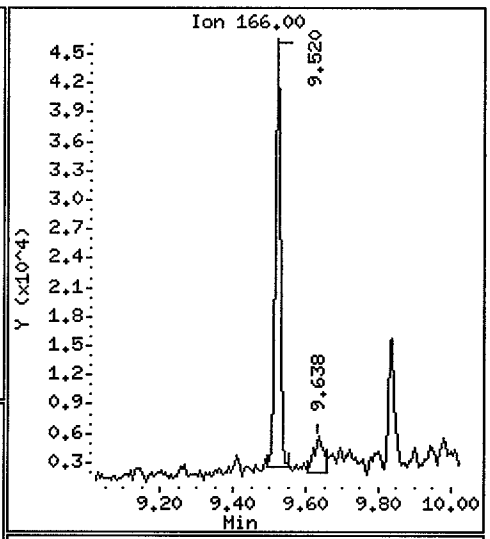
Concentration: 24.69 ug/kg

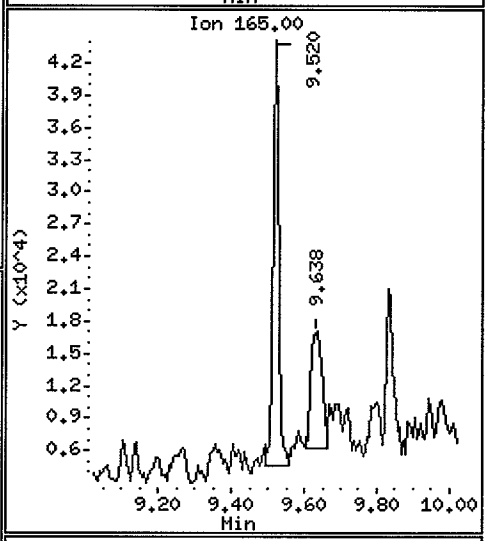


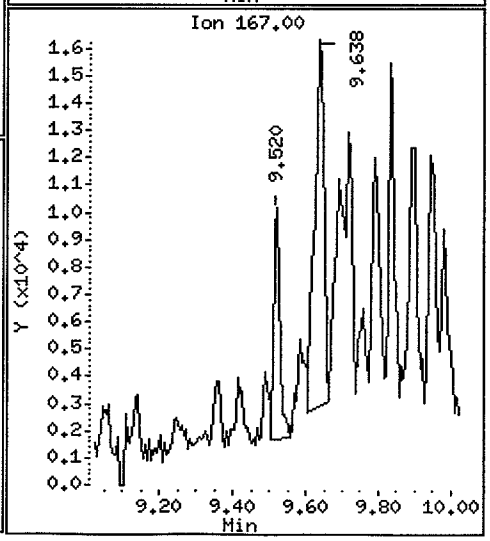












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

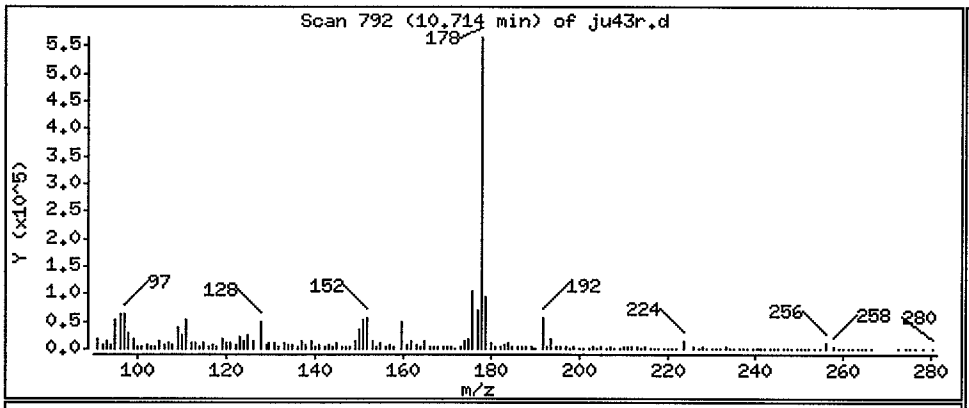
Operator: VTS

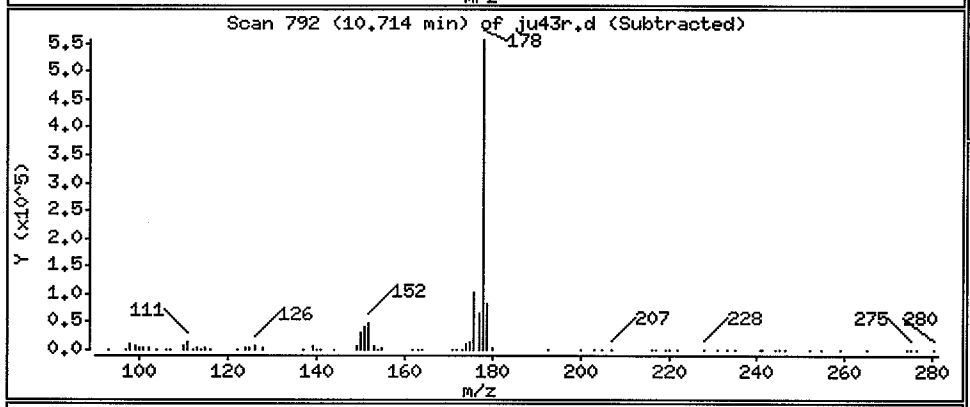
Column phase: ZB-5

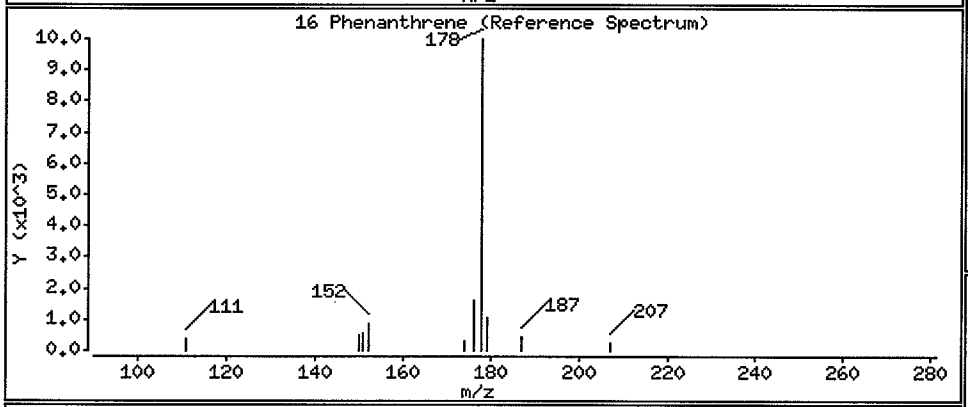
Column diameter: 0.25

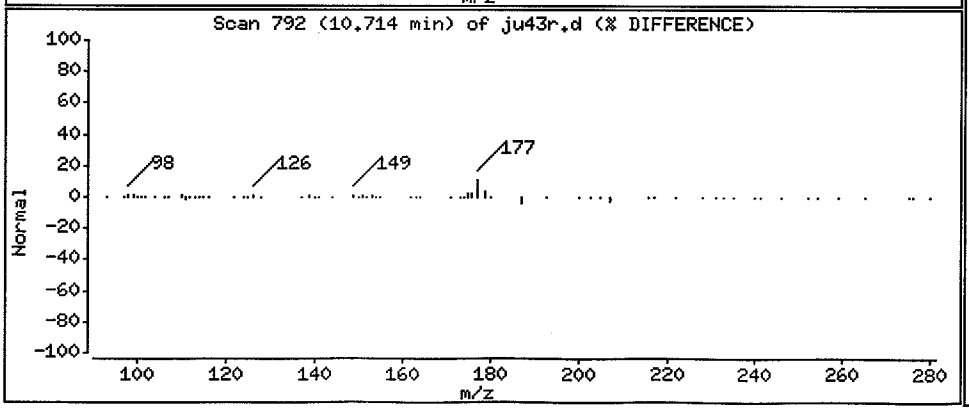
16 Phenanthrene

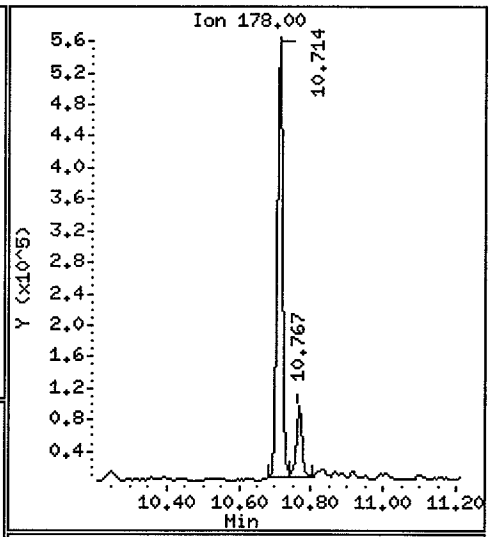
Concentration: 266.3 ug/kg

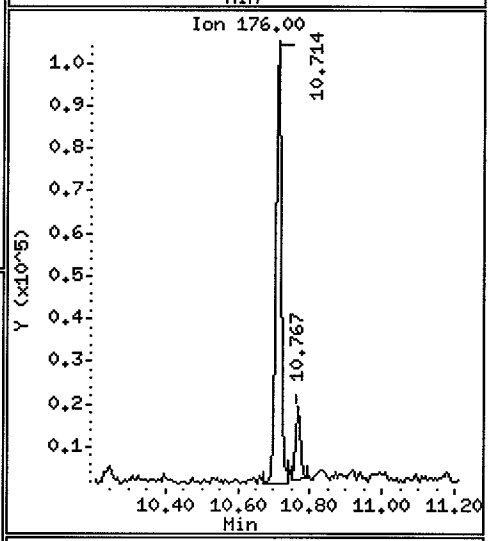


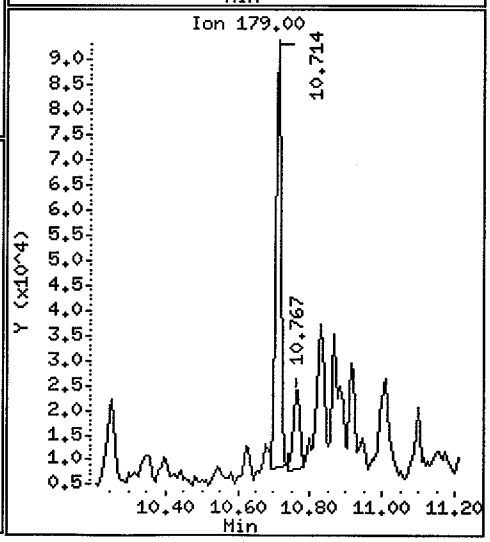












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

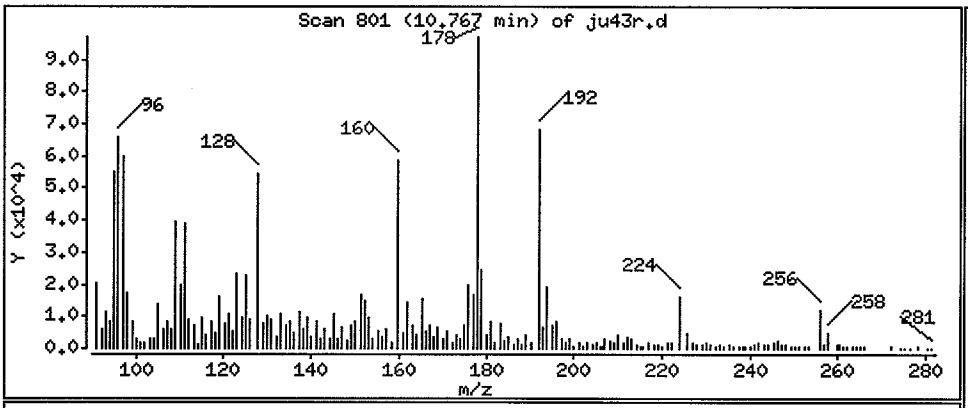
Operator: VTS

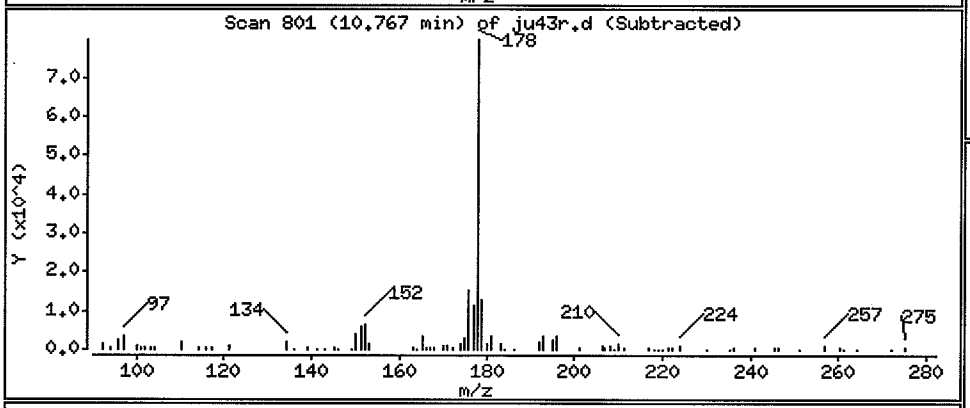
Column phase: ZB-5

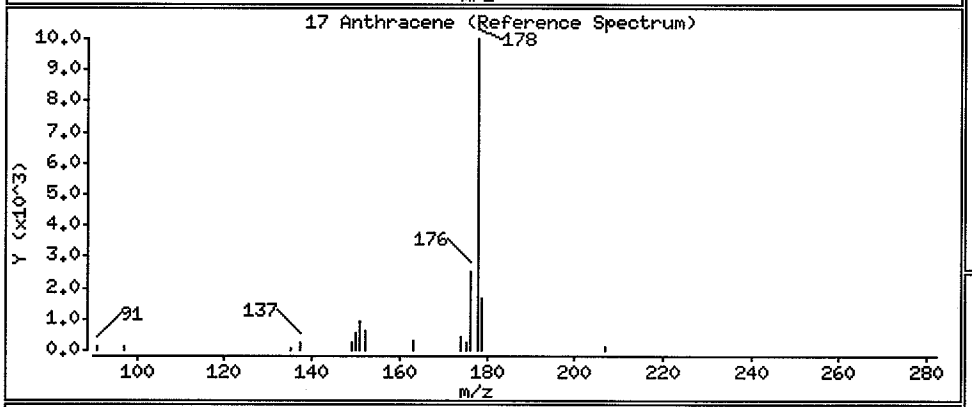
Column diameter: 0.25

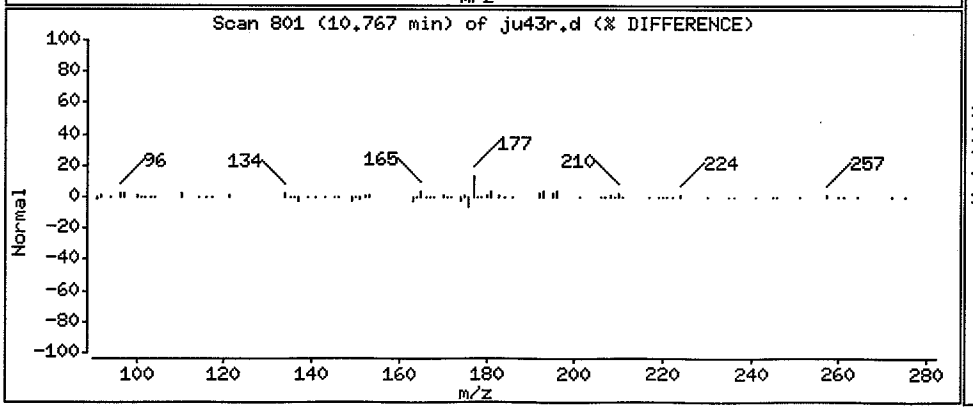
17 Anthracene

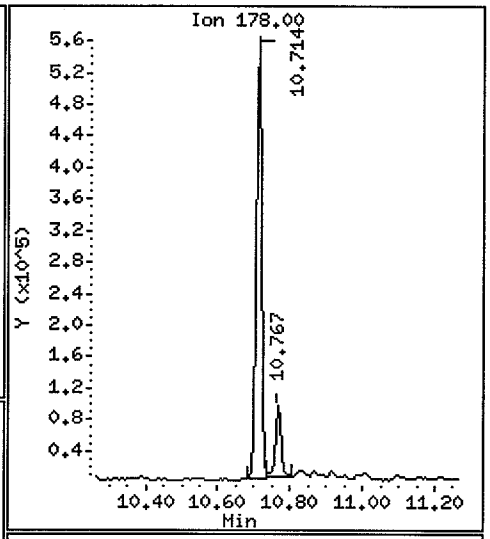
Concentration: 45.37 ug/kg

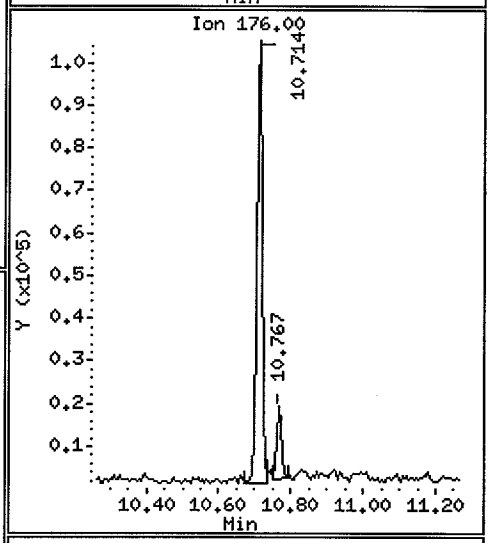


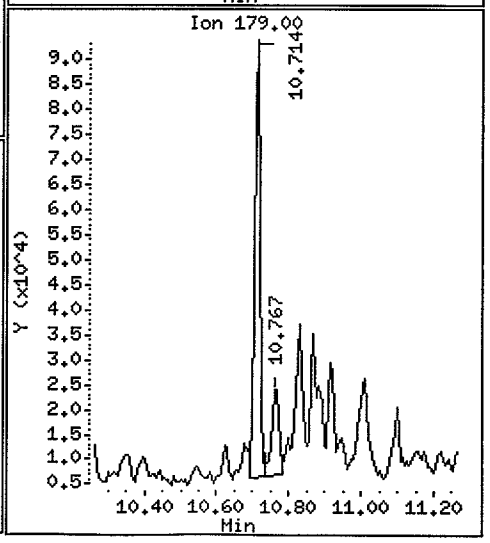












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

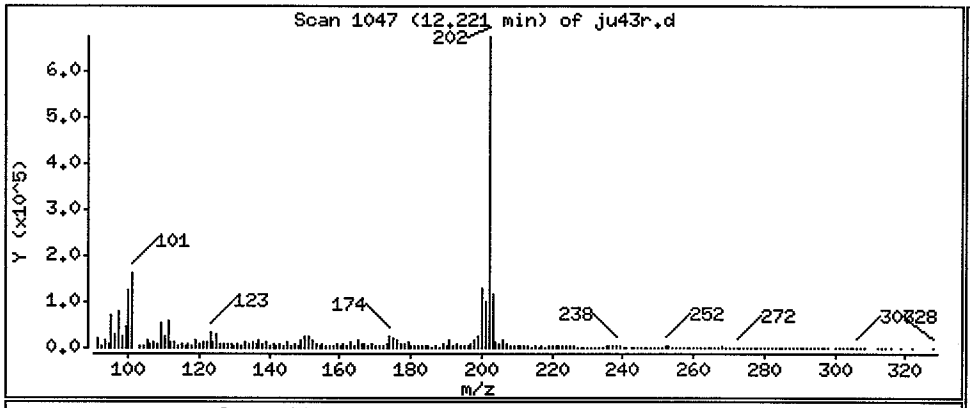
Operator: VTS

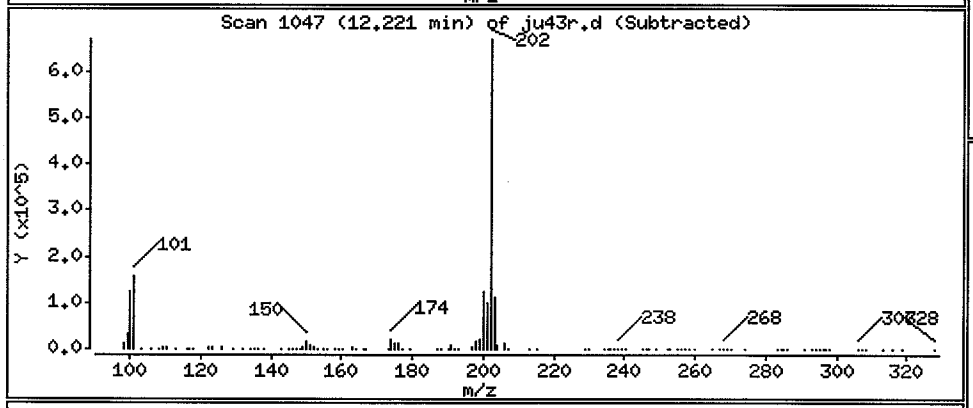
Column phase: ZB-5

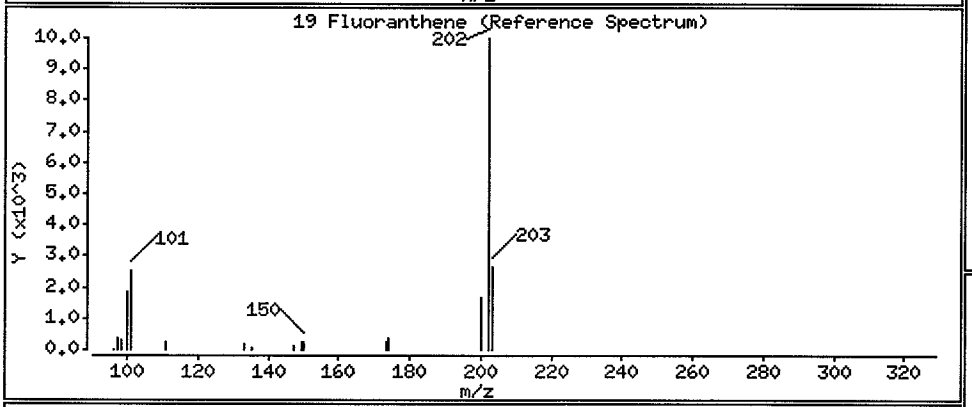
Column diameter: 0.25

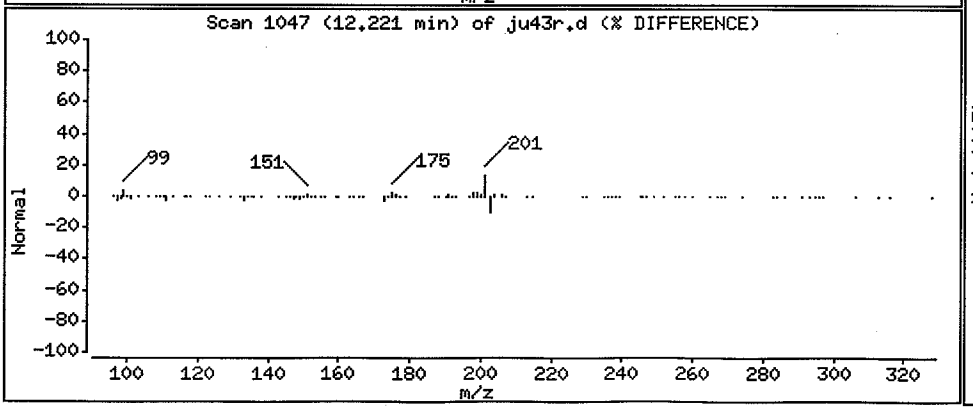
19 Fluoranthene

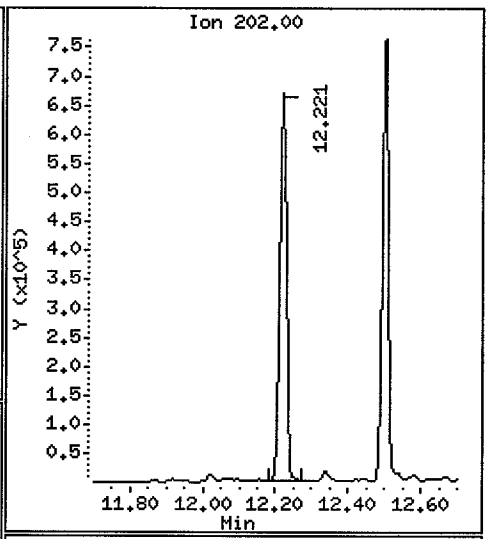
Concentration: 384.6 ug/kg

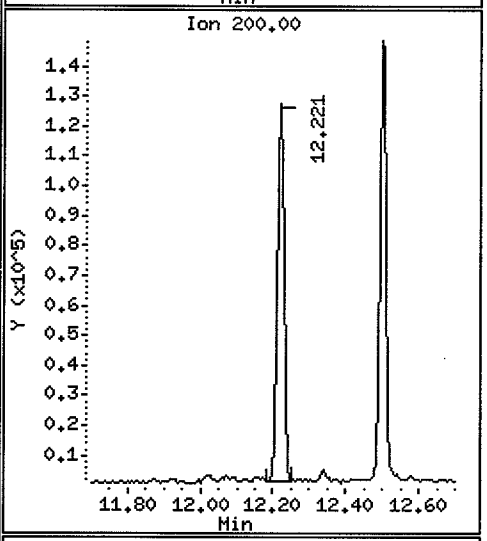


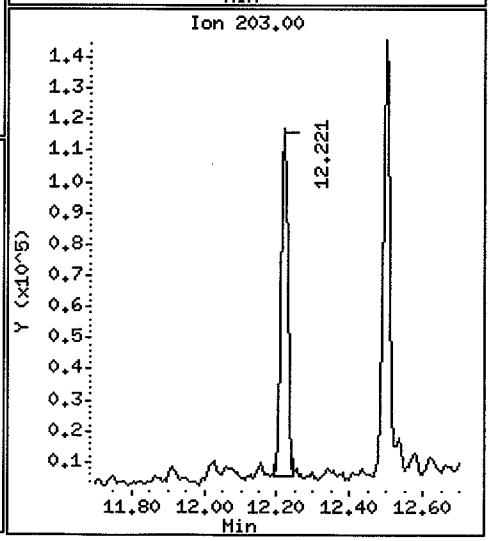












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

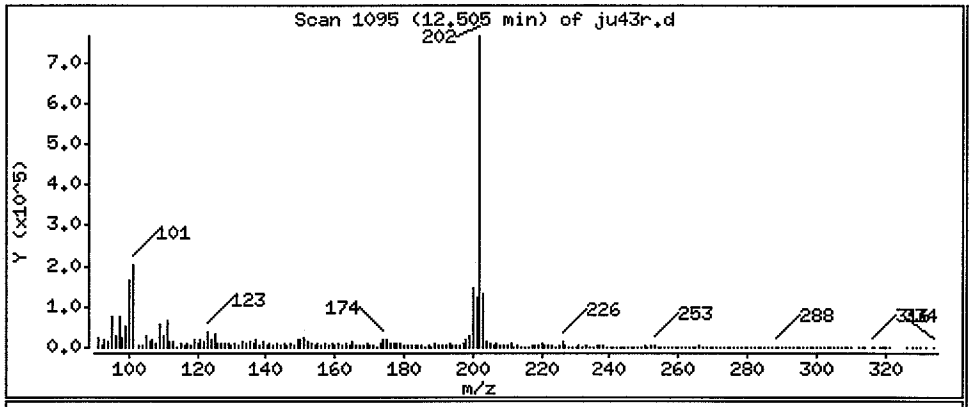
Operator: VTS

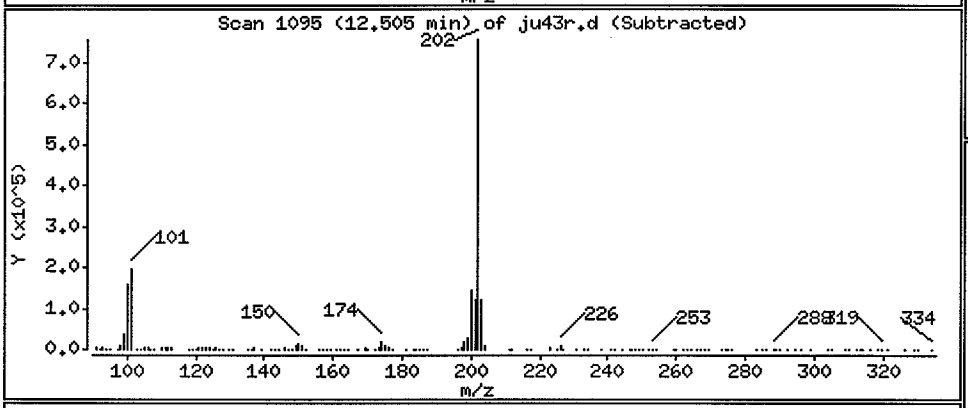
Column phase: ZB-5

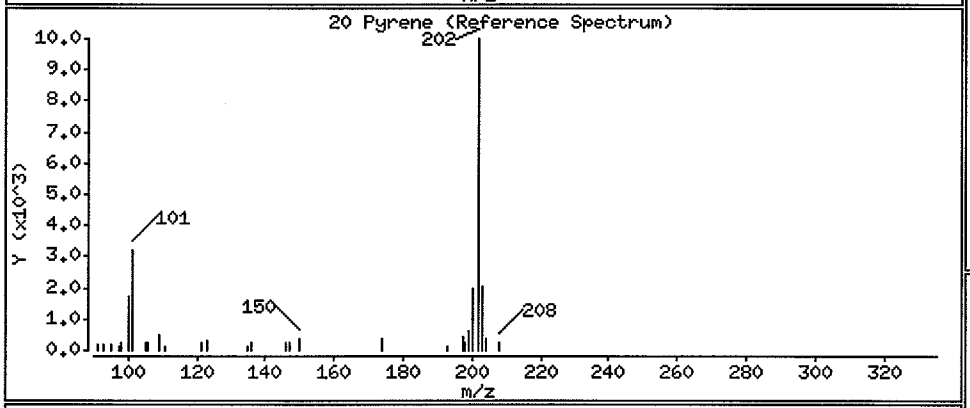
Column diameter: 0.25

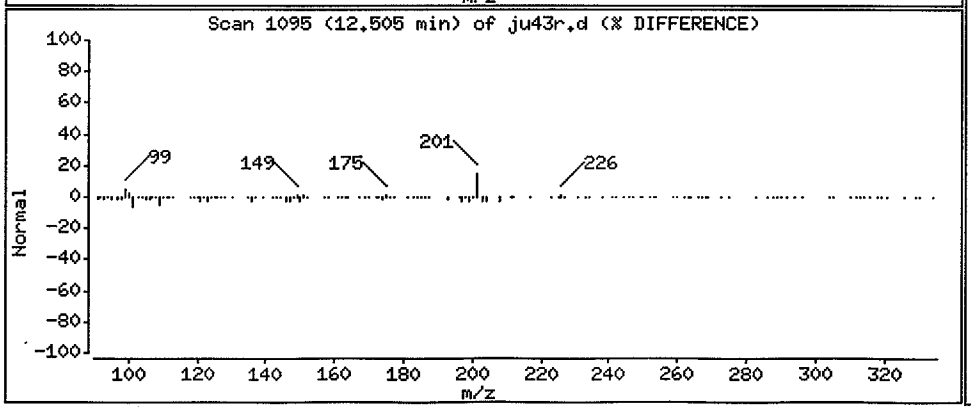
20 Pyrene

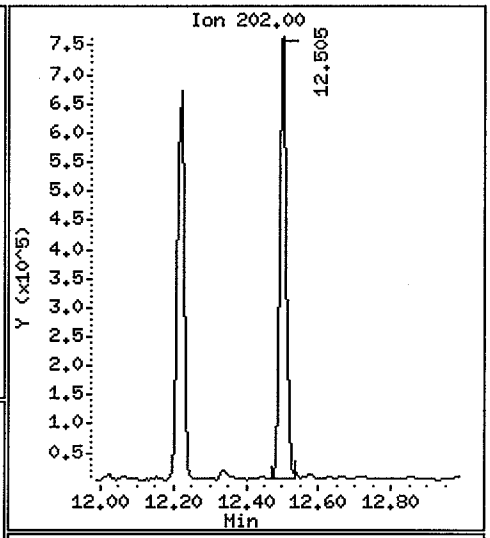
Concentration: 398.3 ug/kg

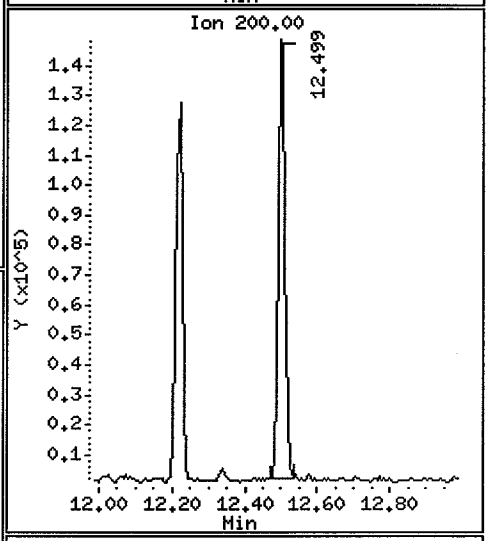


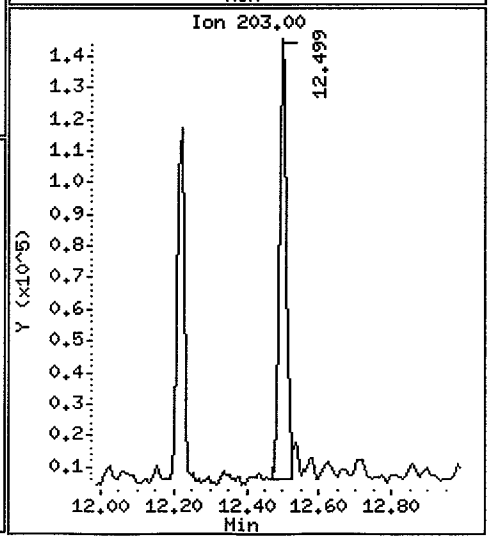












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

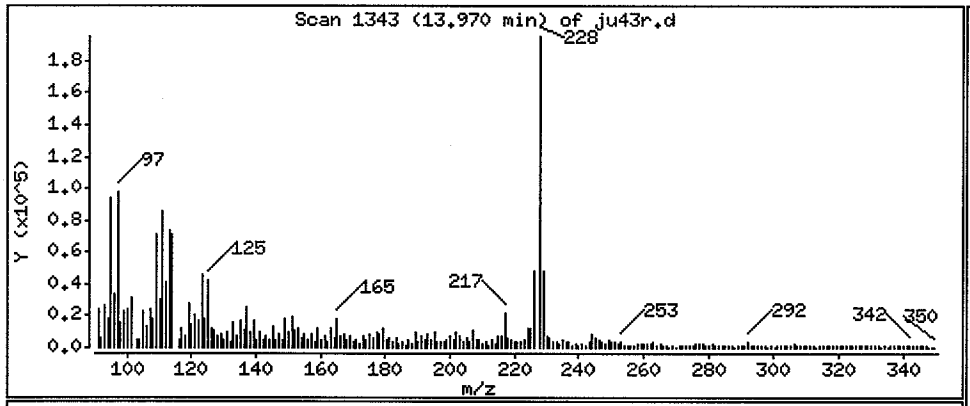
Operator: VTS

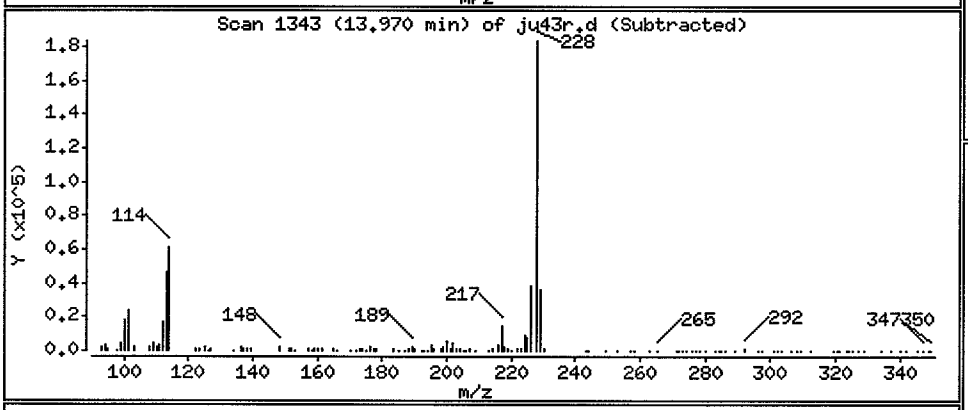
Column phase: ZB-5

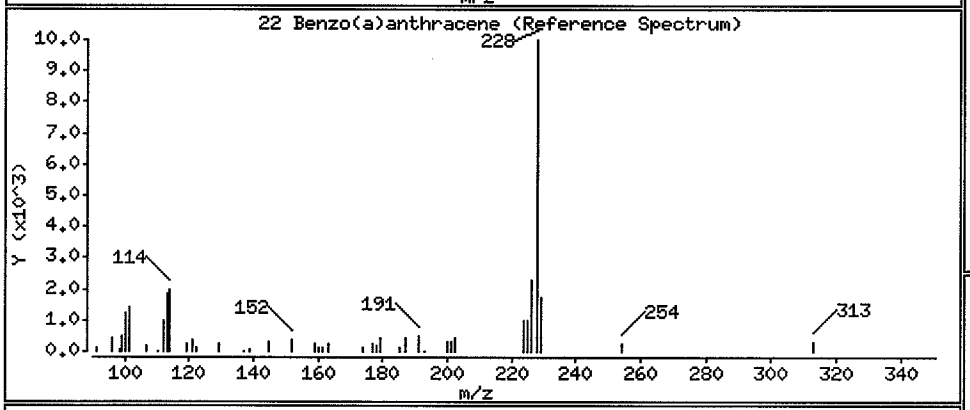
Column diameter: 0.25

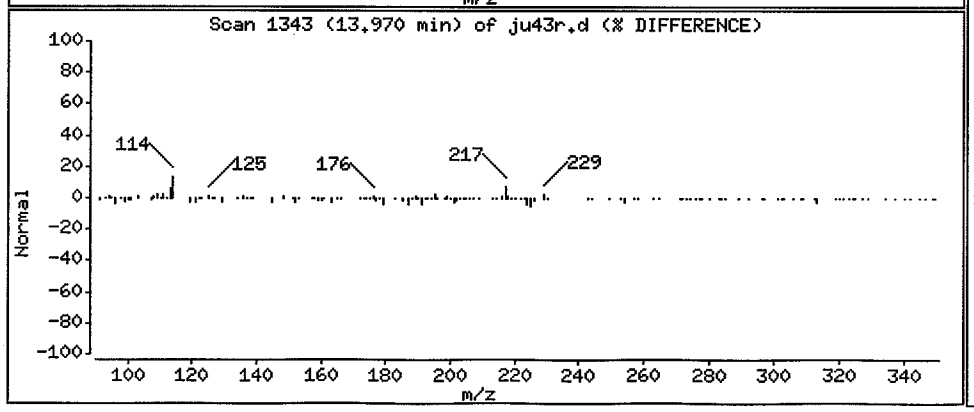
22 Benzo(a)anthracene

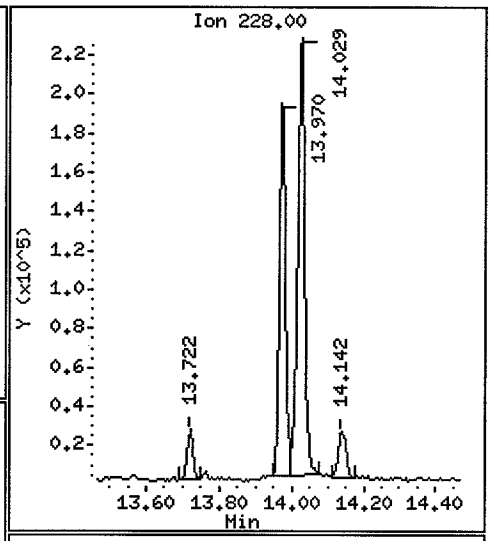
Concentration: 118.2 ug/kg

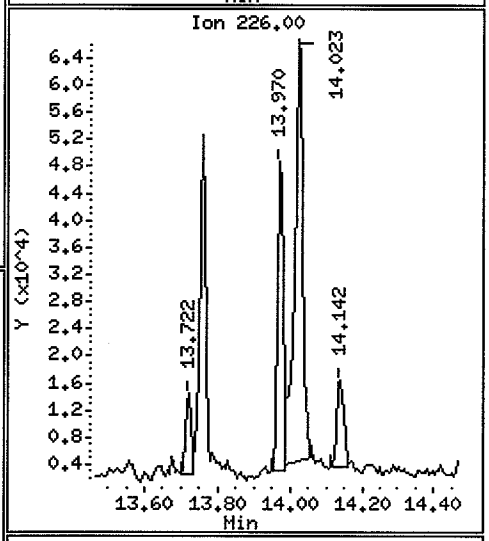


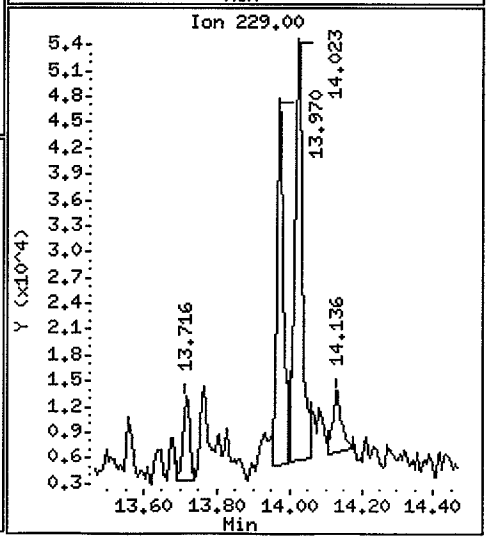












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

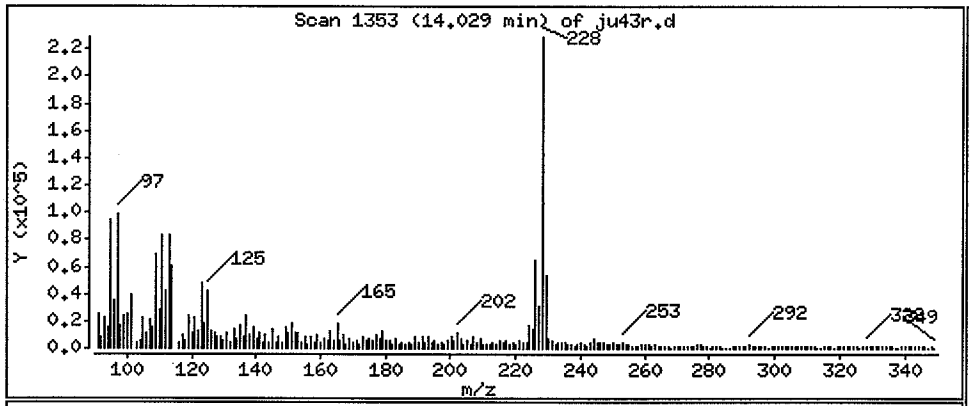
Operator: VTS

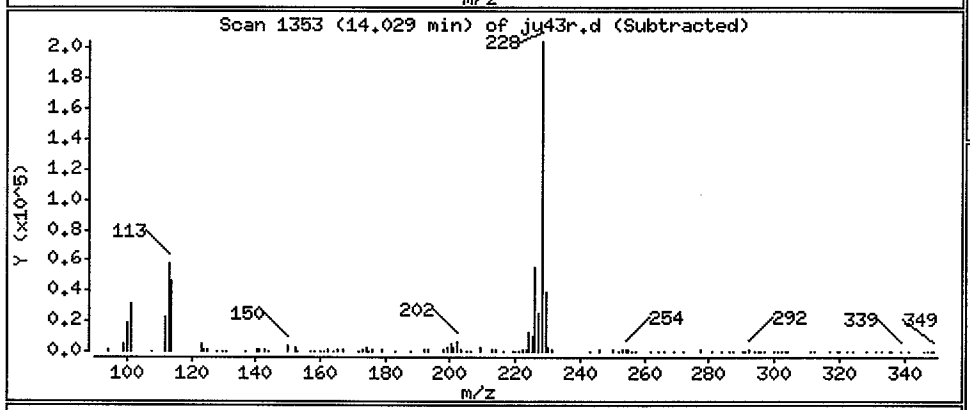
Column phase: ZB-5

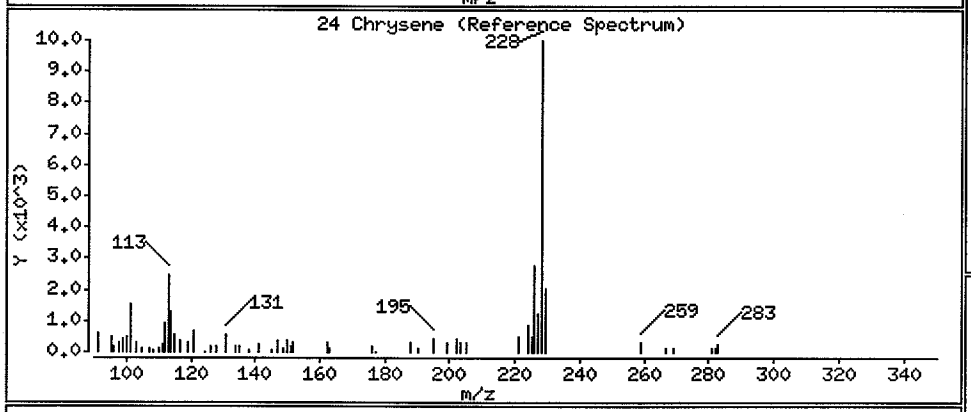
Column diameter: 0.25

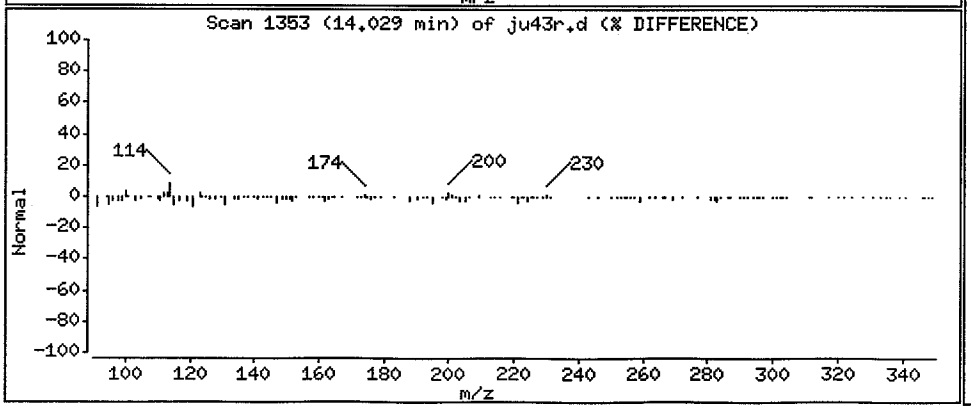
24 Chrysene

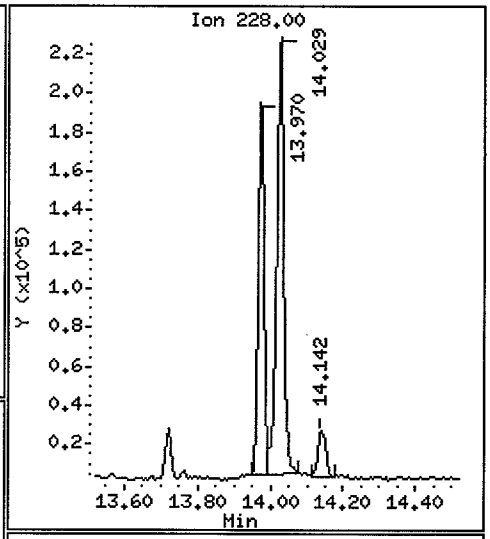
Concentration: 171.0 ug/kg

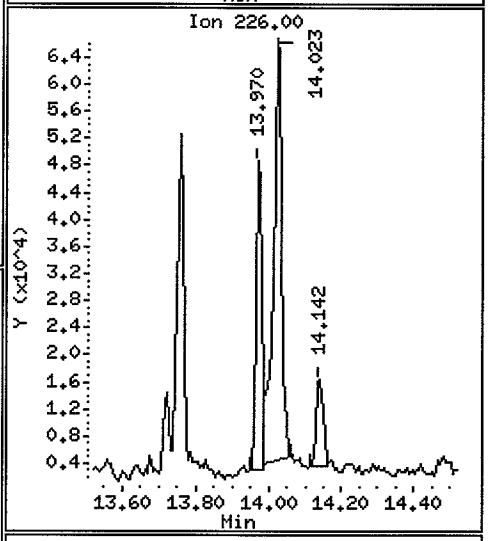


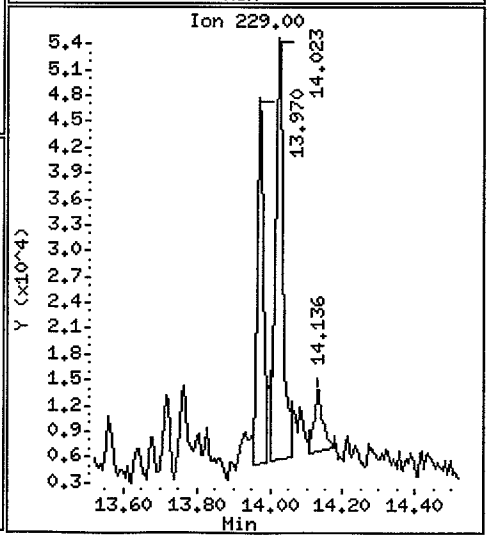












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-C

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

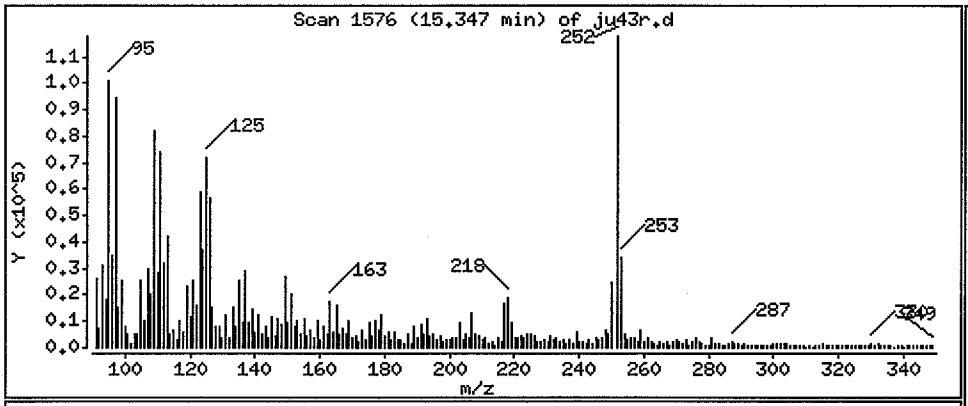
Operator: VTS

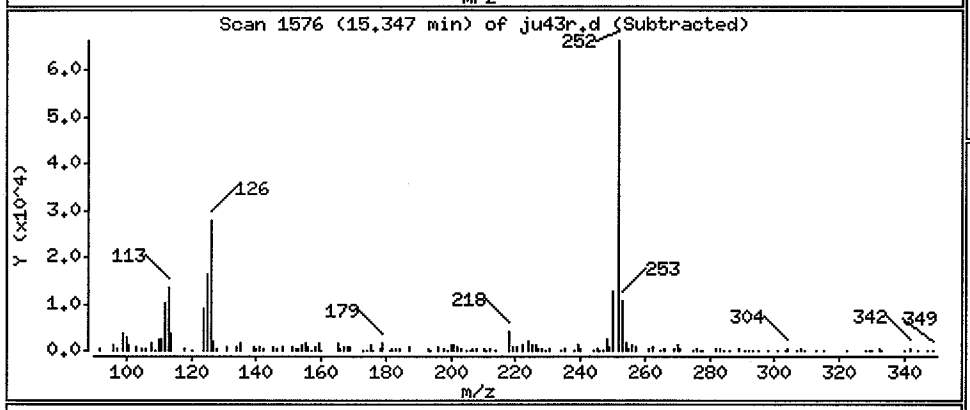
Column phase: ZB-5

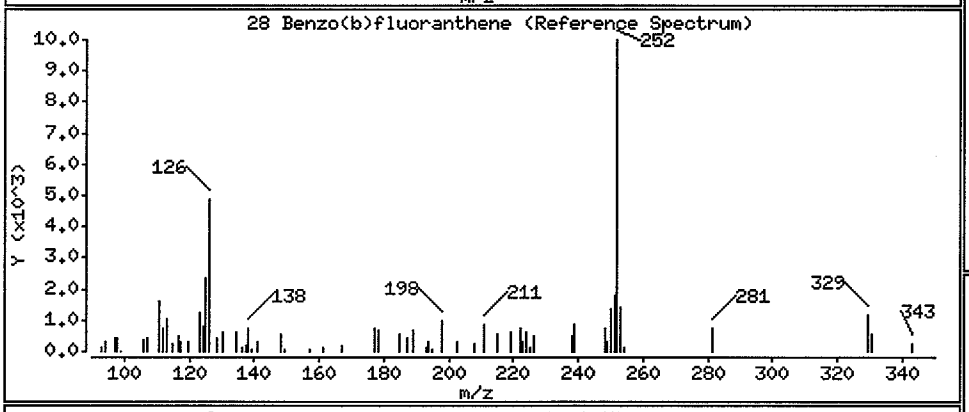
Column diameter: 0.25

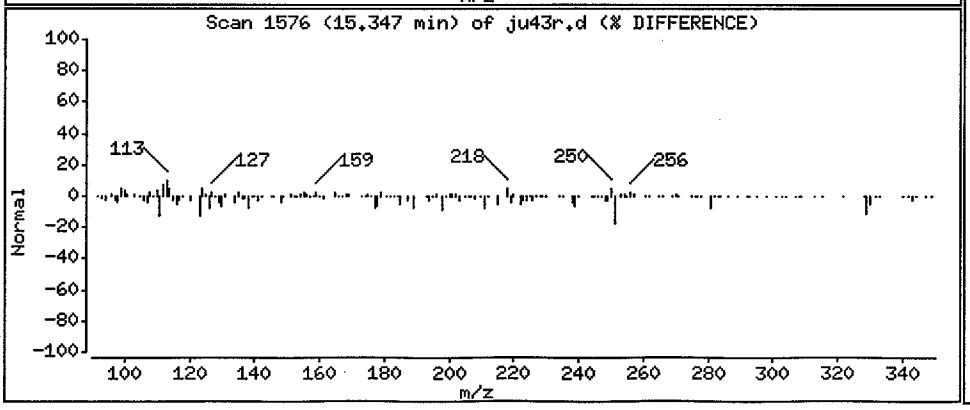
28 Benzo(b)fluoranthene

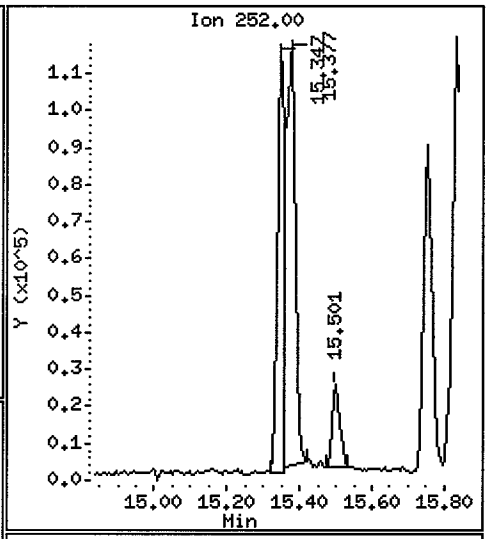
Concentration: 89.47 ug/kg

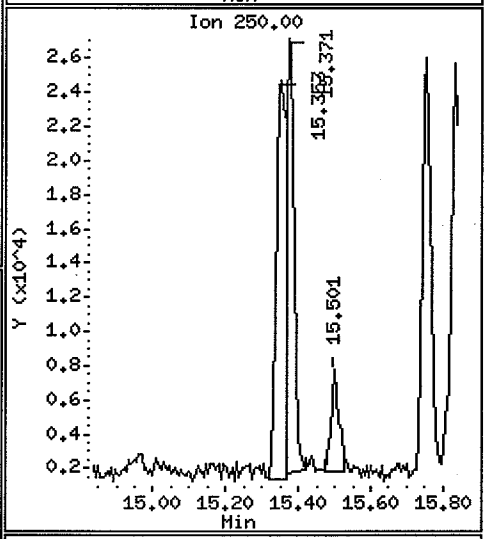


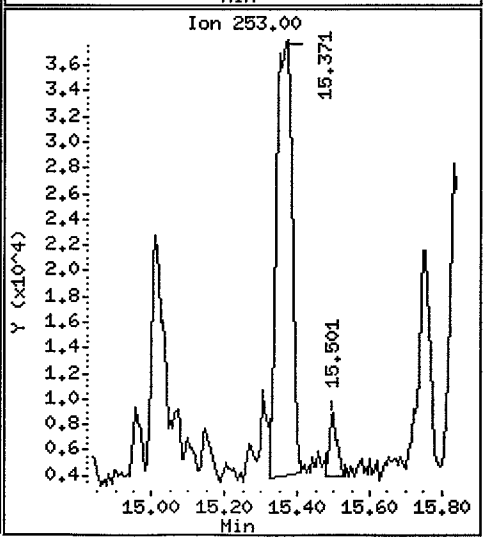












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

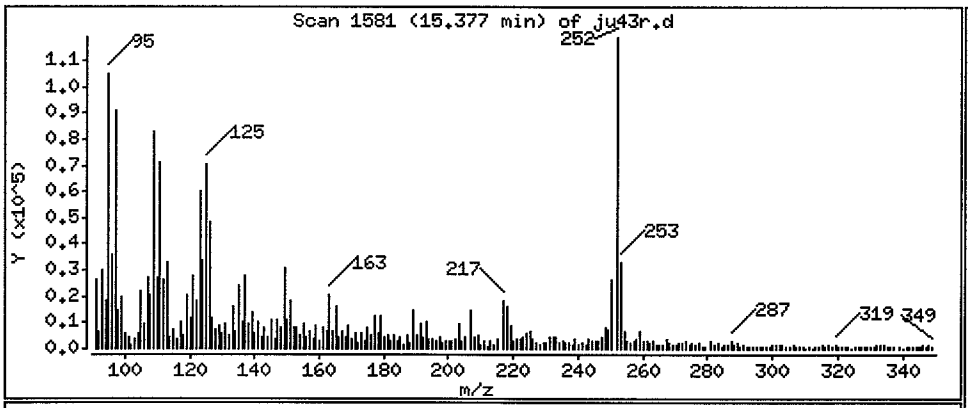
Operator: VTS

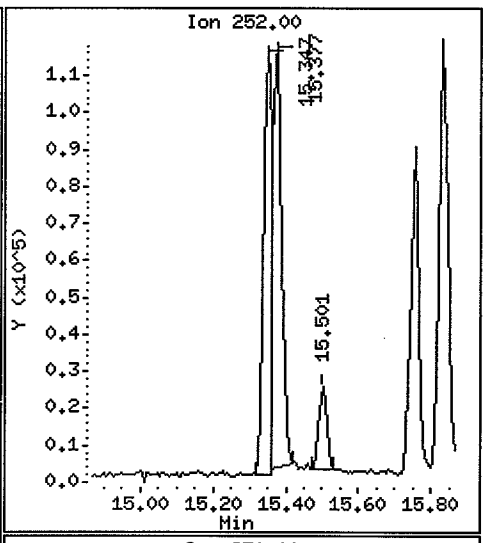
Column phase: ZB-5

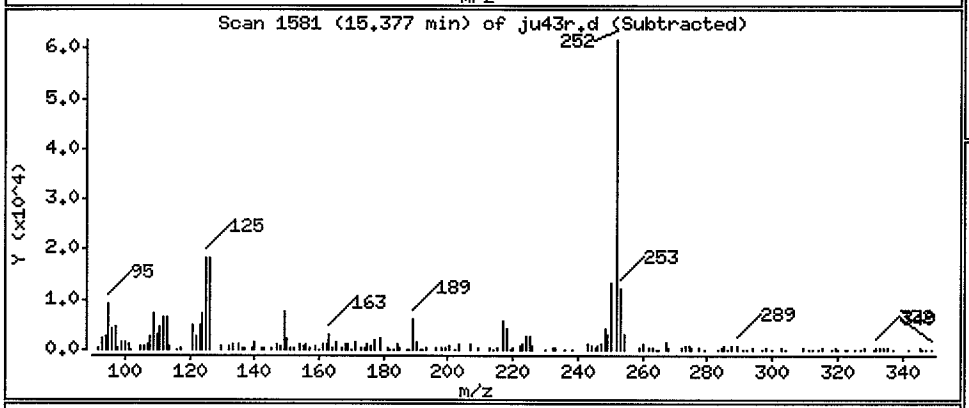
Column diameter: 0.25

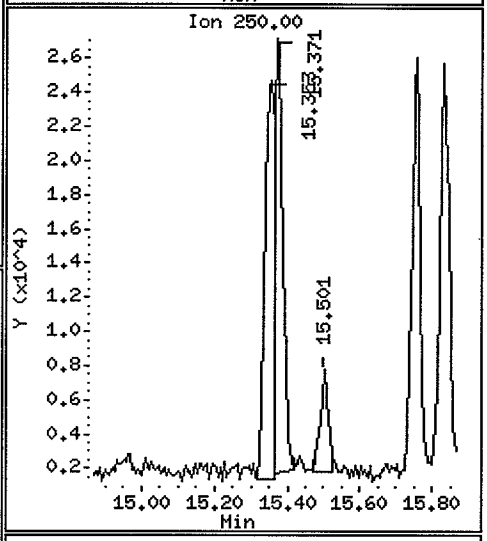
29 Benzo(k)fluoranthene

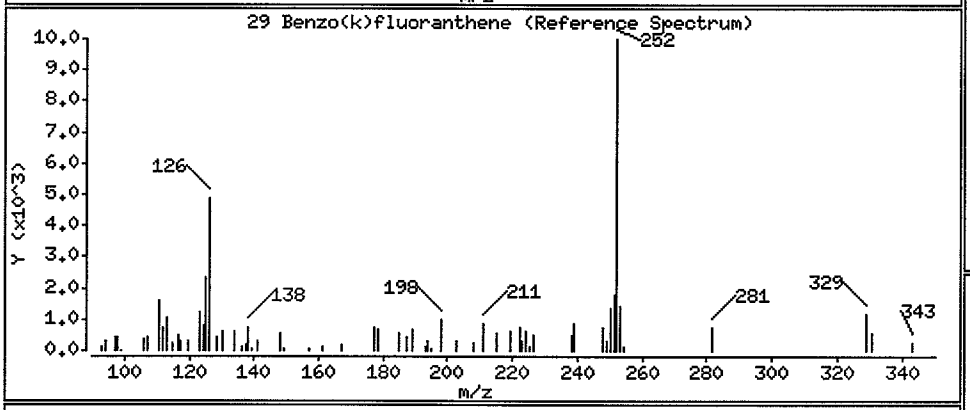
Concentration: 110.3 ug/kg

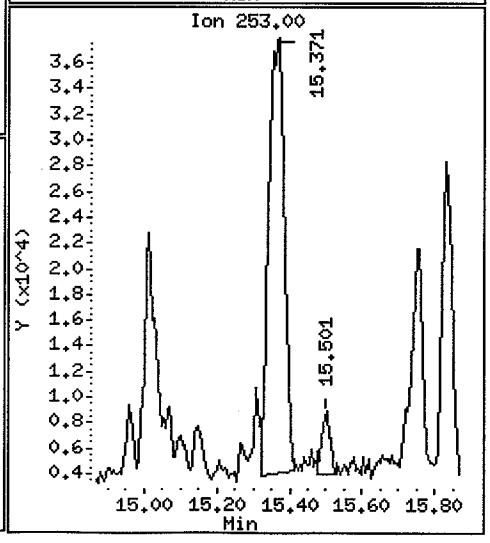


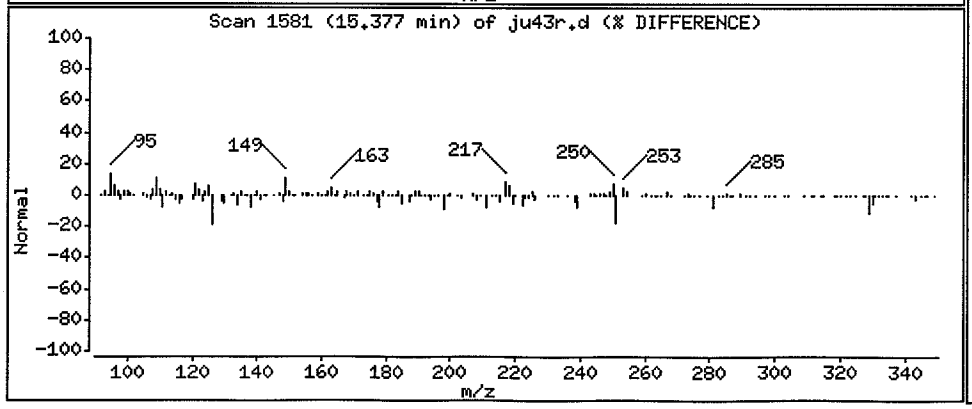












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

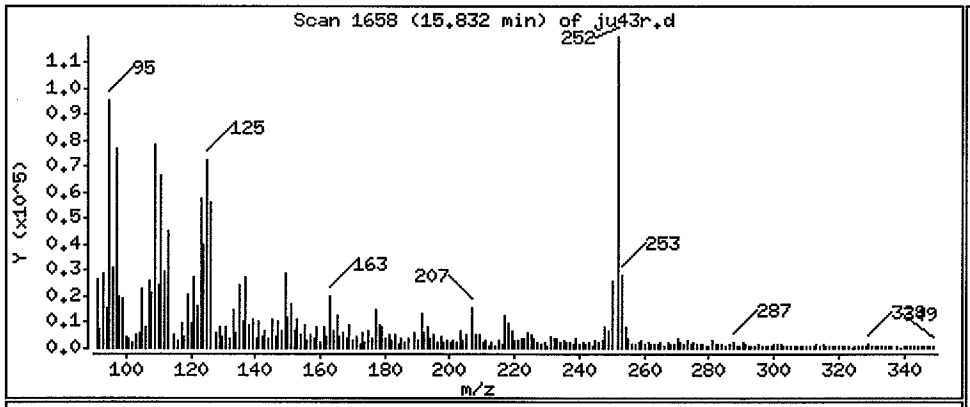
Operator: VTS

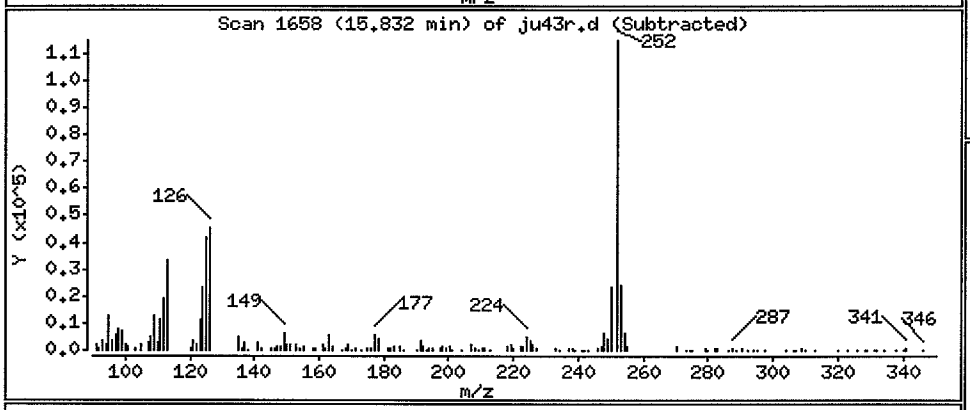
Column phase: ZB-5

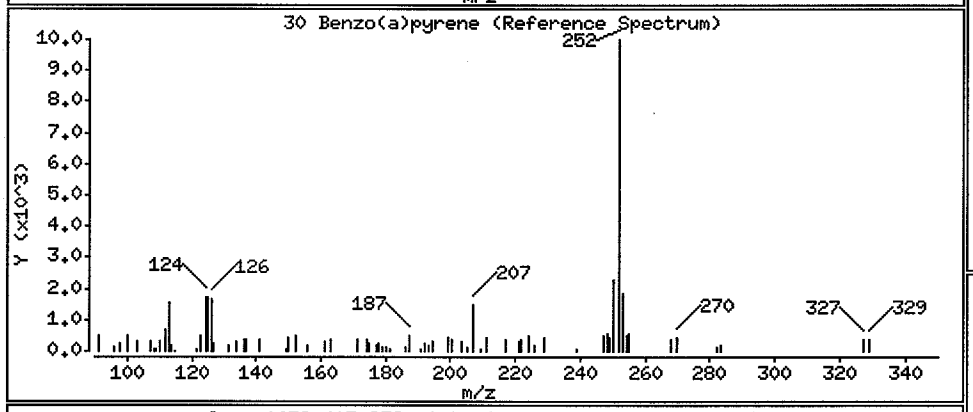
Column diameter: 0.25

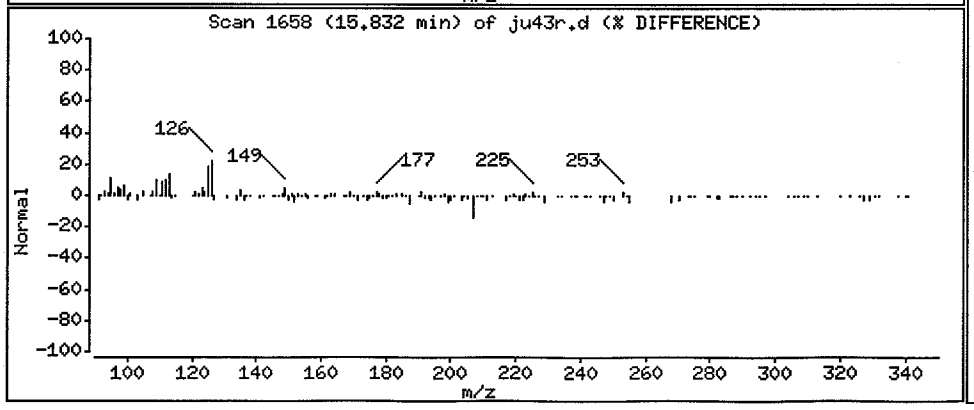
30 Benzo(a)pyrene

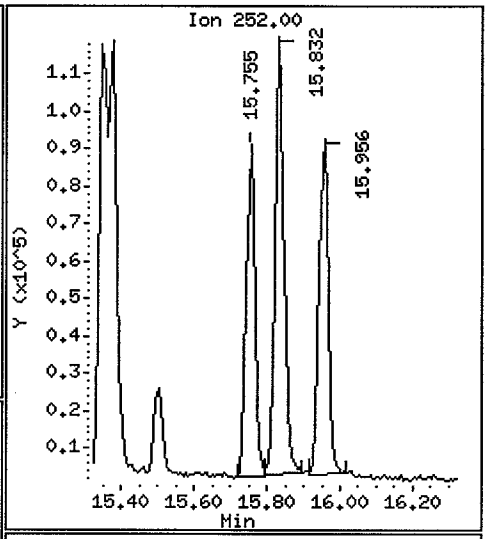
Concentration: 119.4 ug/kg

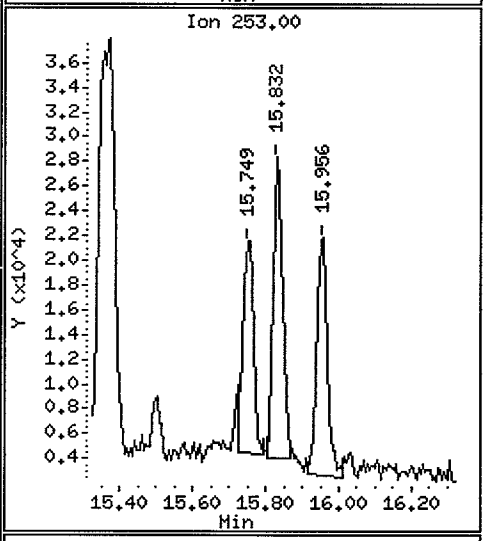


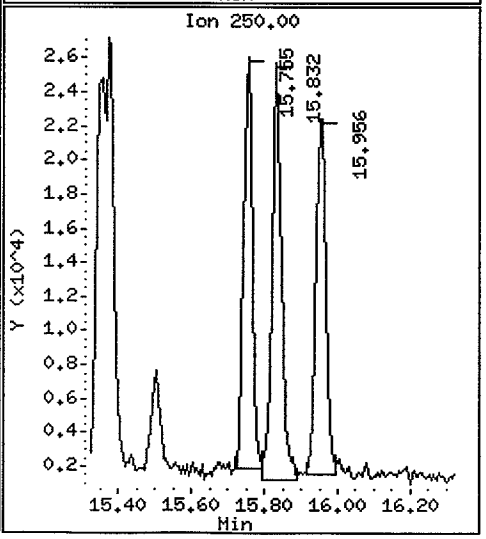












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

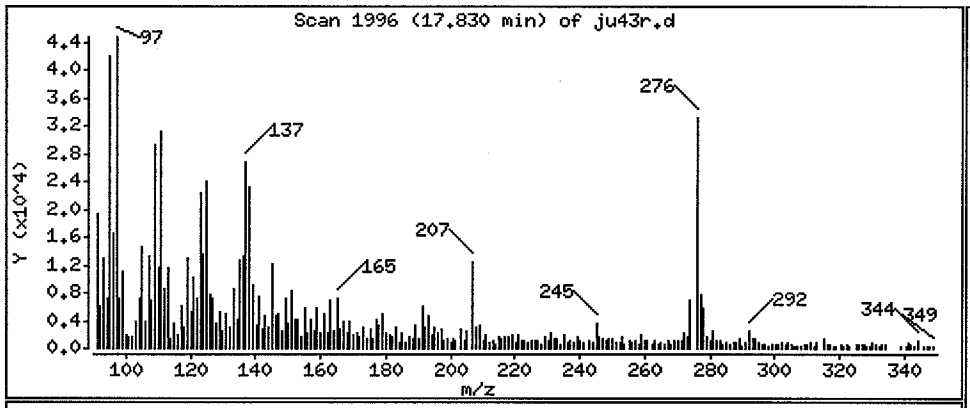
Operator: VTS

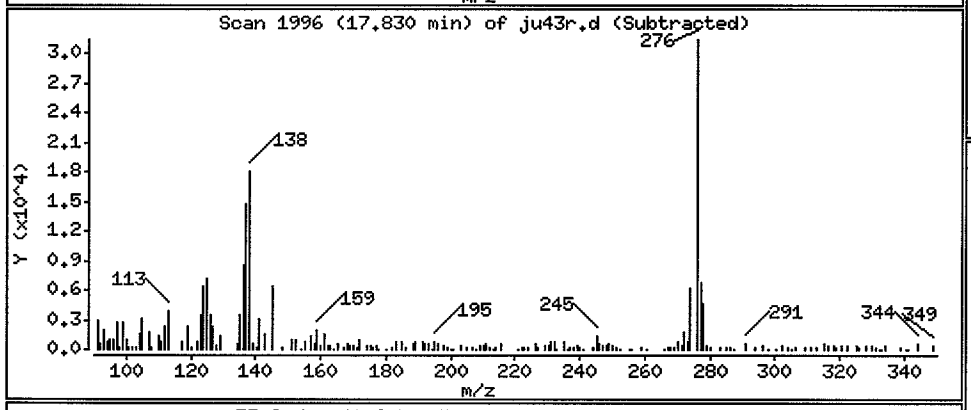
Column phase: ZB-5

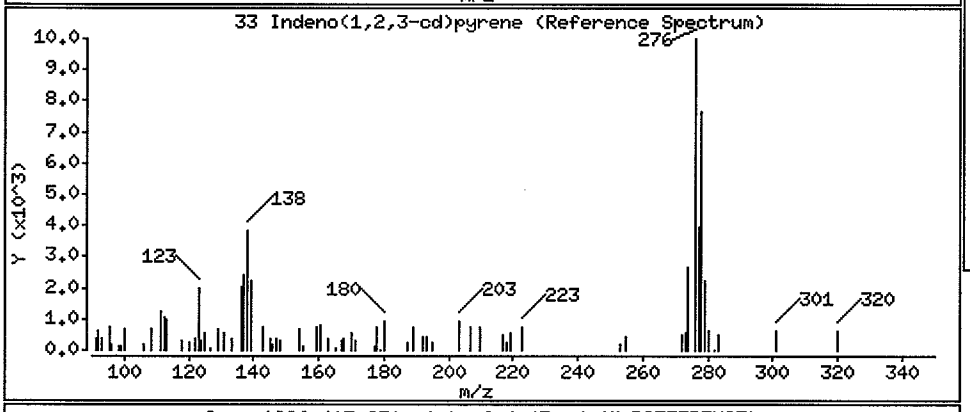
Column diameter: 0.25

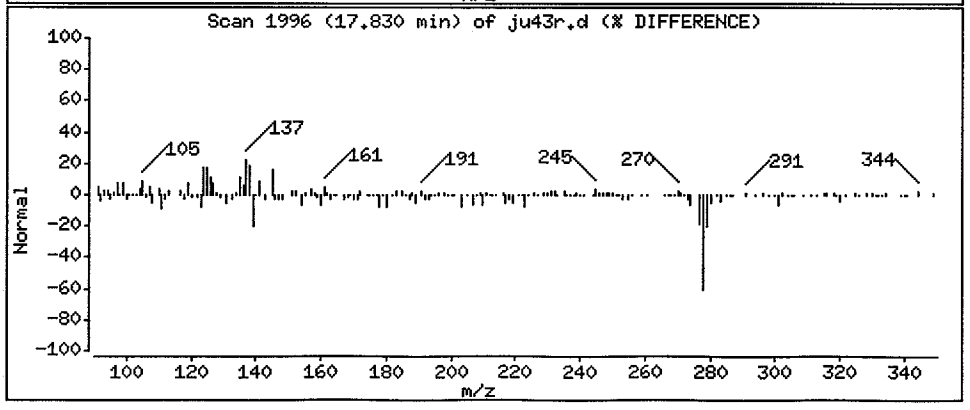
33 Indeno(1,2,3-cd)pyrene

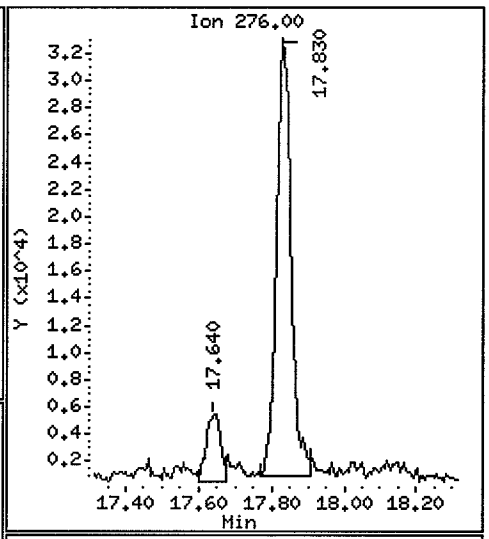
Concentration: 50.12 ug/kg

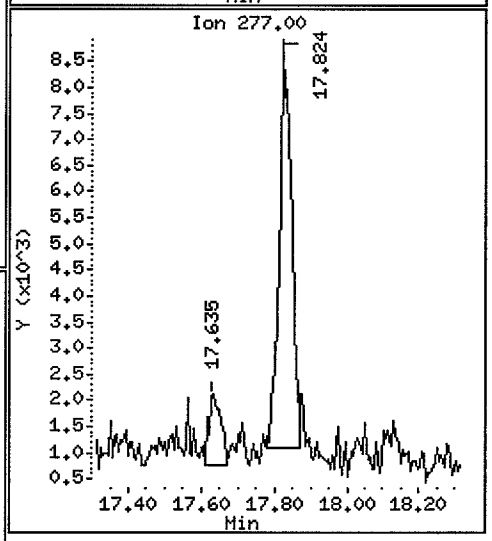












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

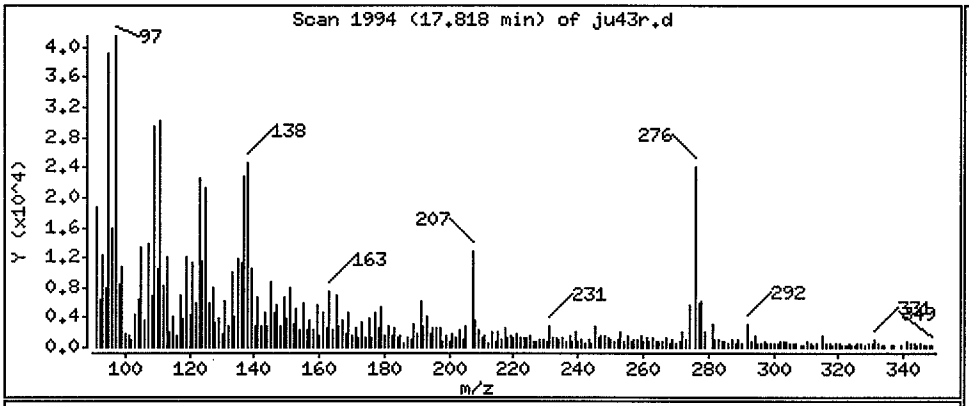
Operator: VTS

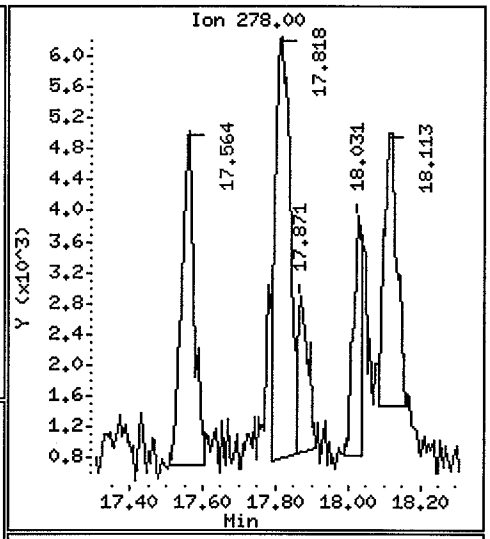
Column phase: ZB-5

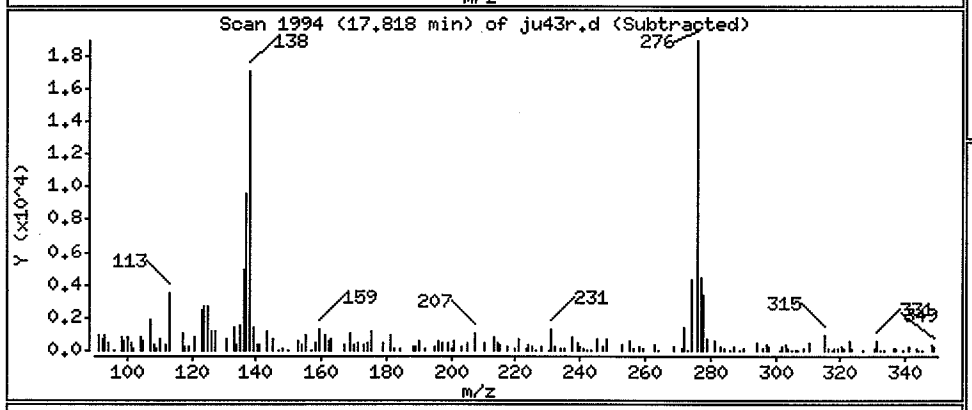
Column diameter: 0.25

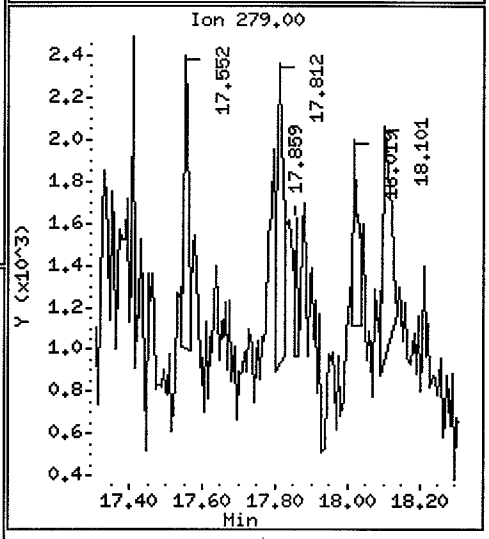
34 Dibenz(a,h)anthracene

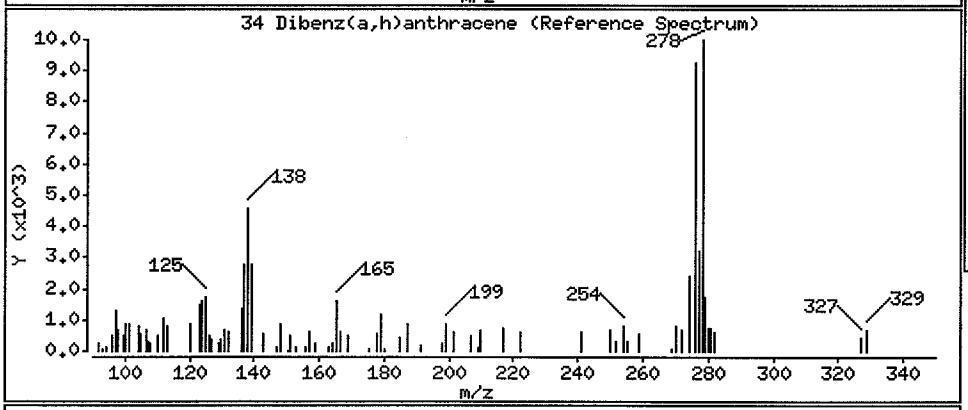
Concentration: 11.17 ug/kg

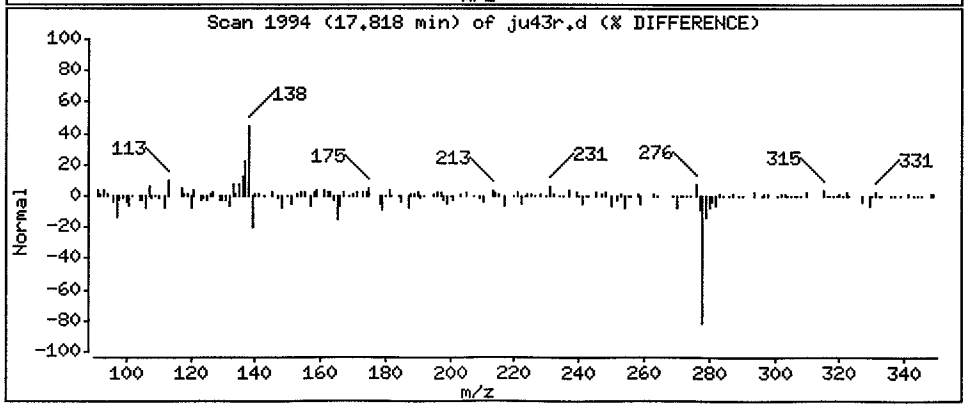












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

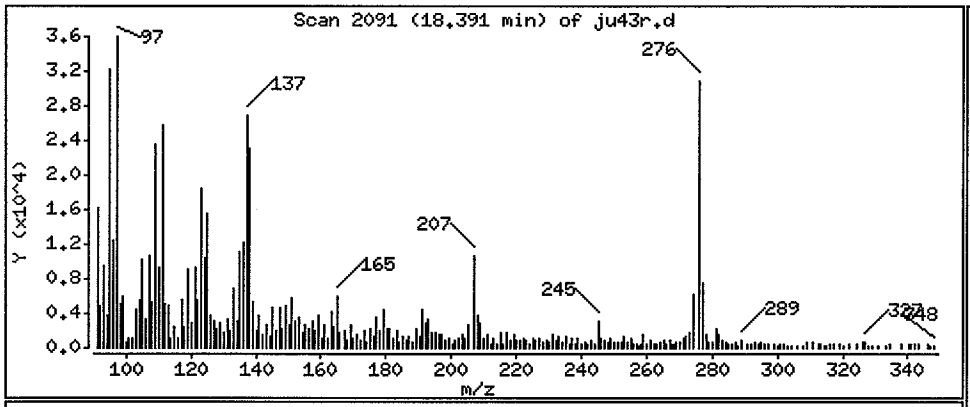
Operator: VTS

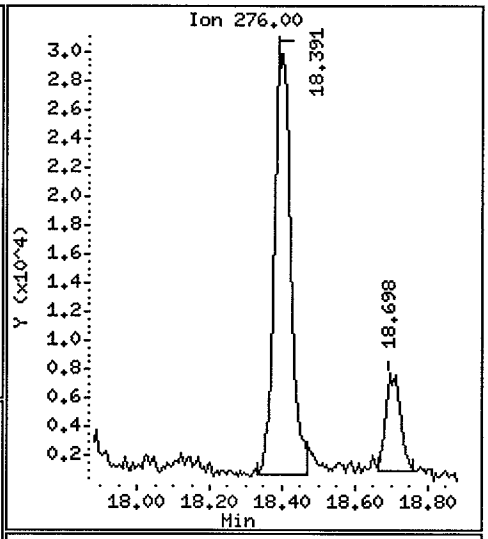
Column phase: ZB-5

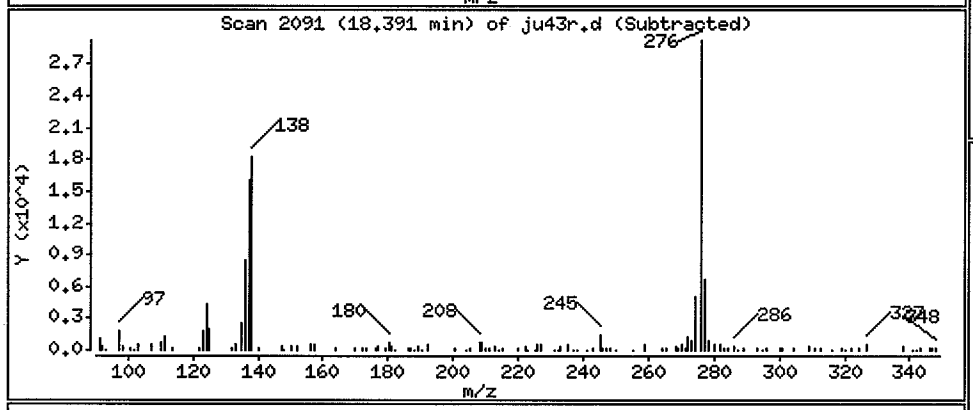
Column diameter: 0.25

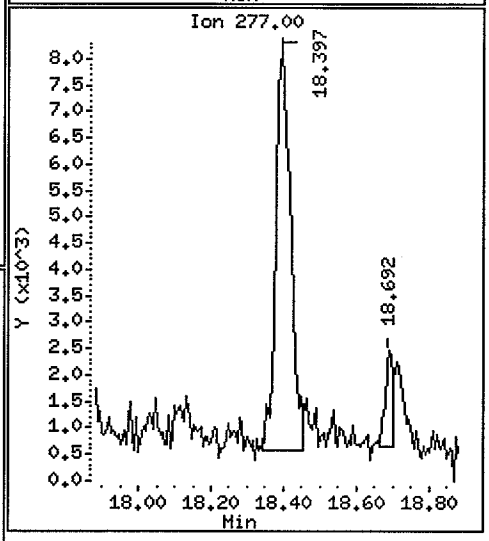
35 Benzo(g,h,i)perylene

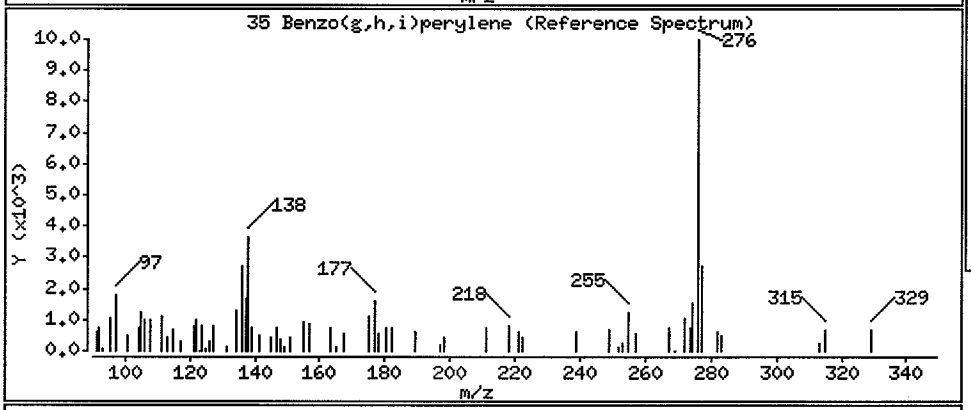
Concentration: 57.84 ug/kg

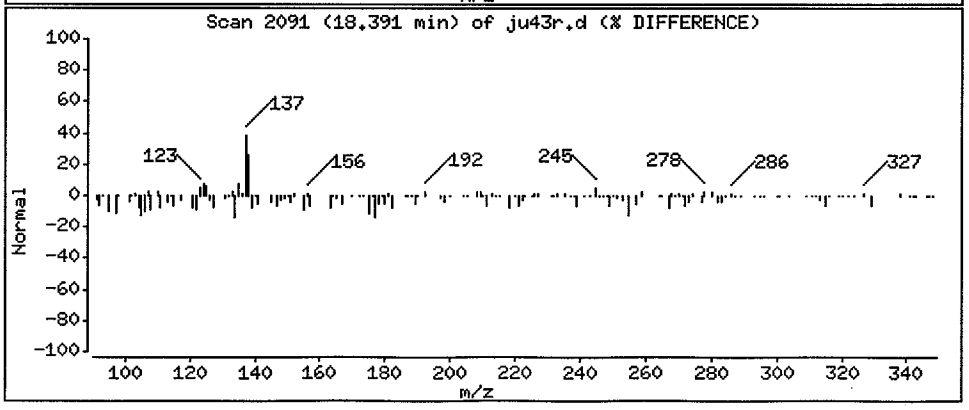












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

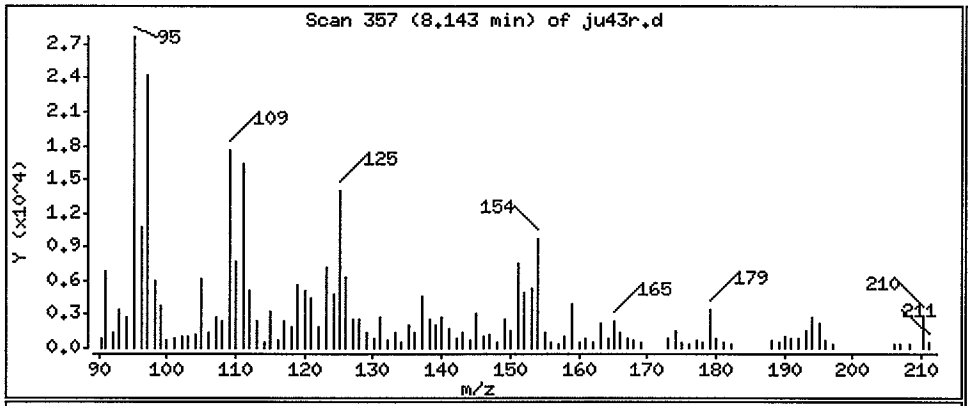
Operator: VTS

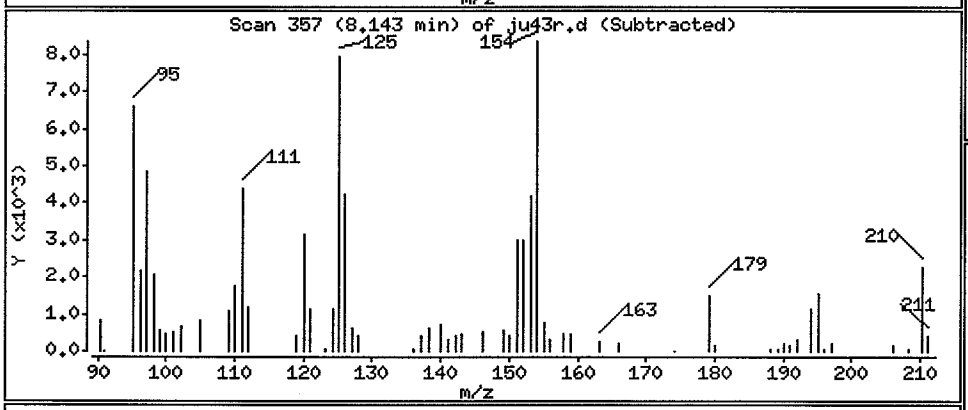
Column phase: ZB-5

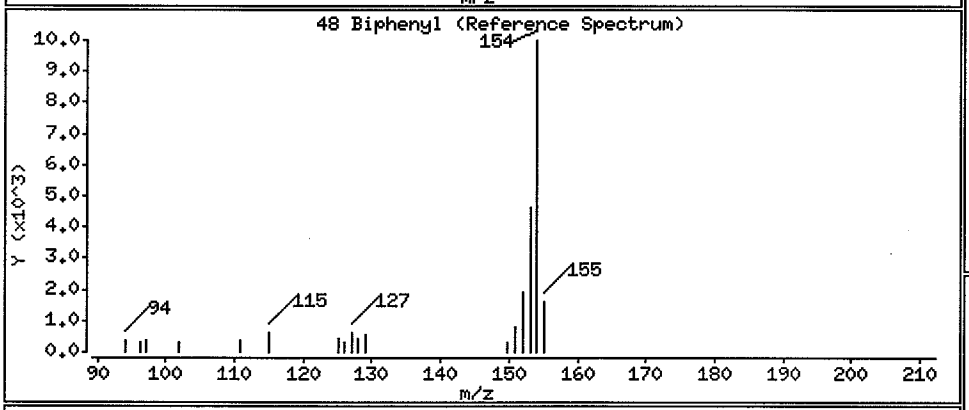
Column diameter: 0.25

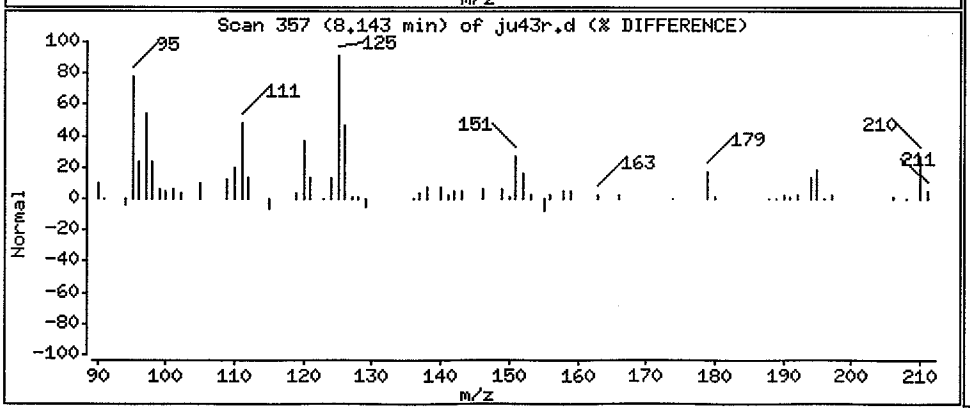
48 Biphenyl

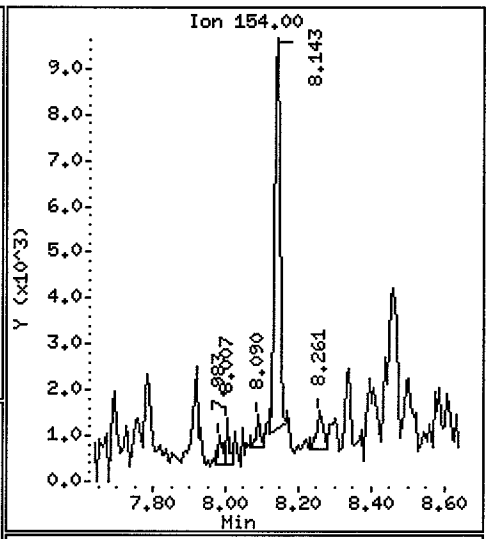
Concentration: 4.539 ug/kg

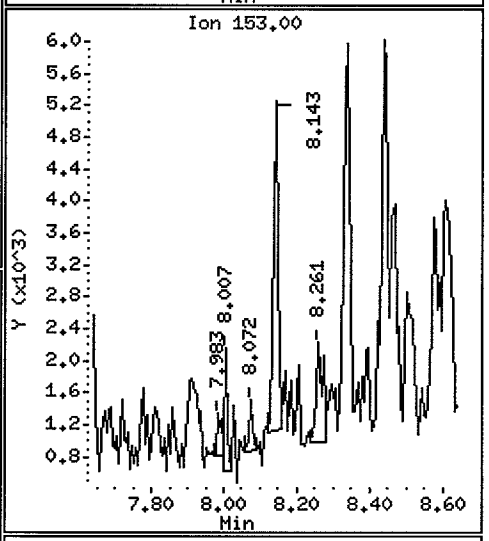


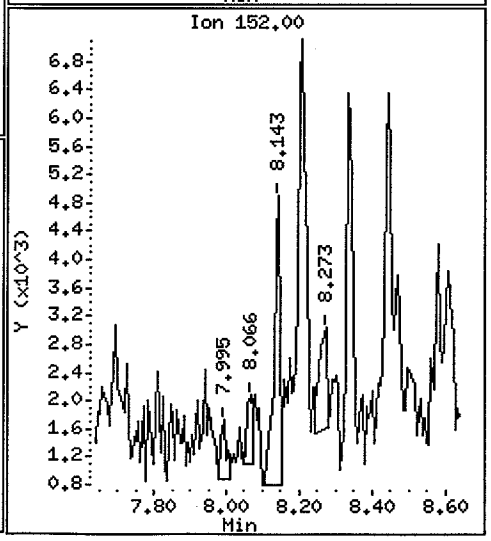












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

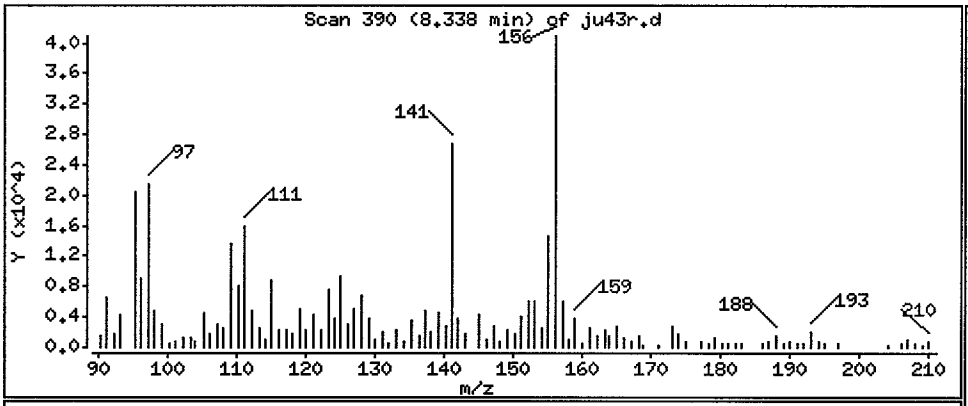
Operator: VTS

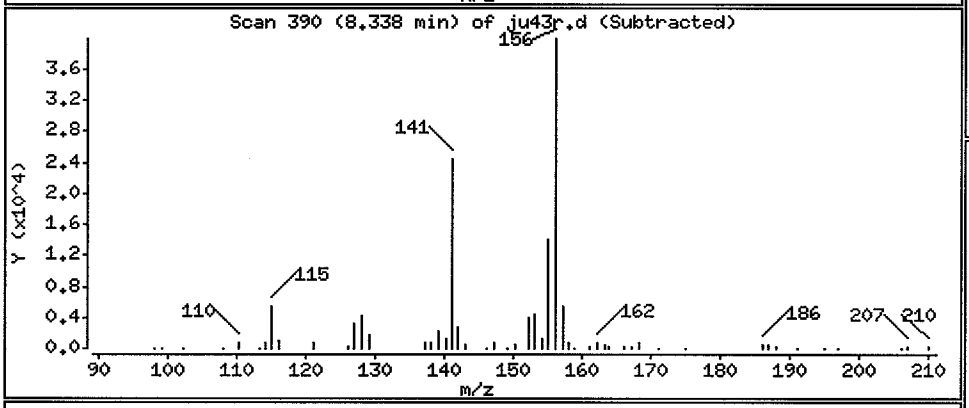
Column phase: ZB-5

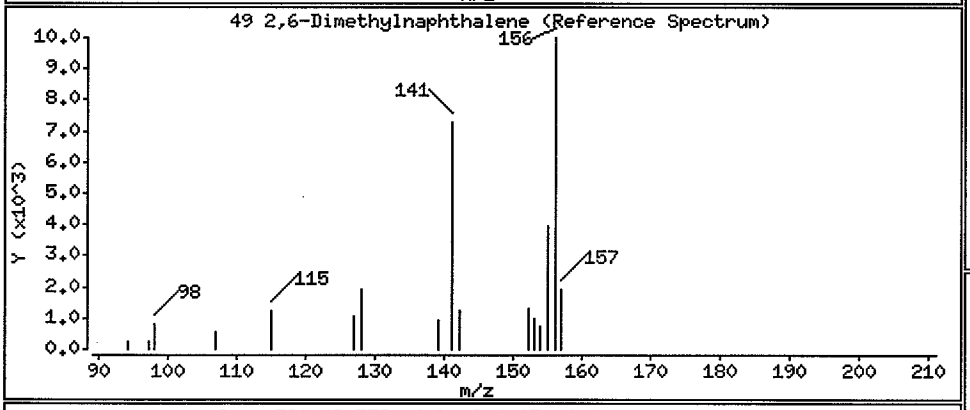
Column diameter: 0.25

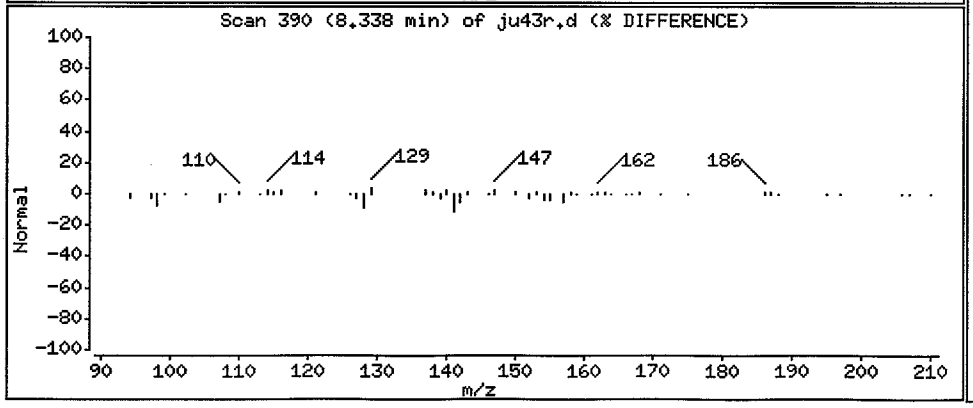
49 2,6-Dimethylnaphthalene

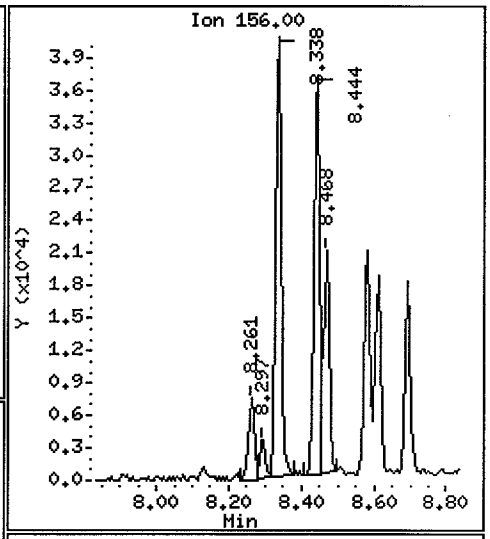
Concentration: 29.76 ug/kg

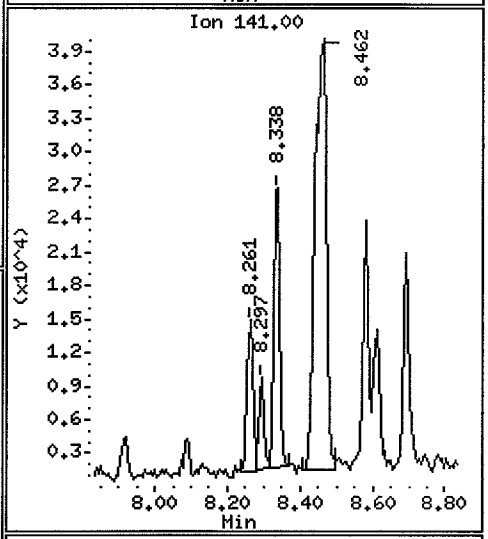


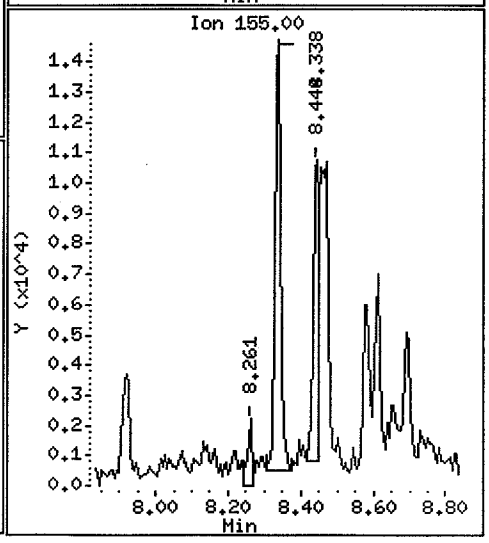












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

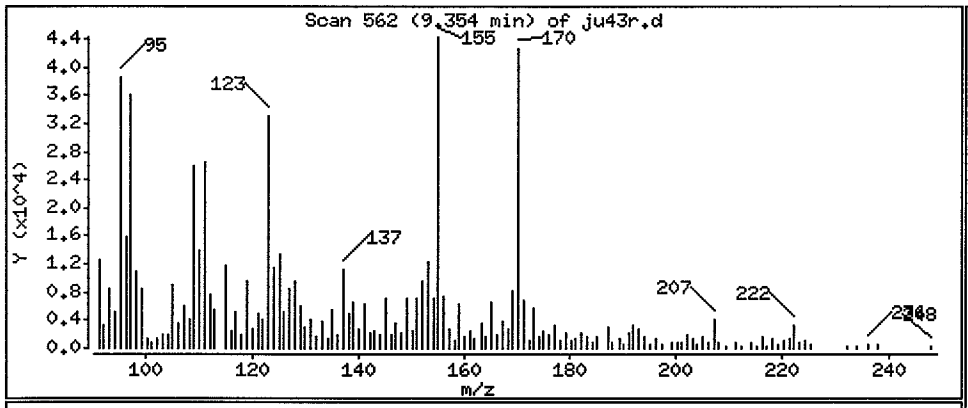
Operator: VTS

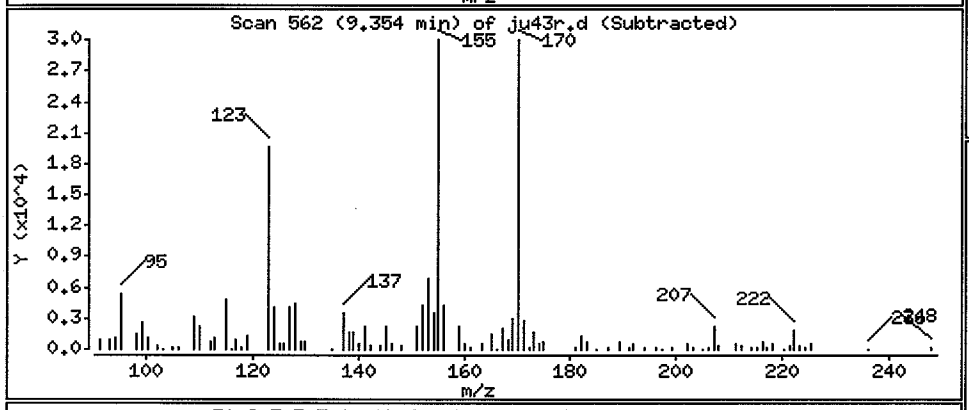
Column phase: ZB-5

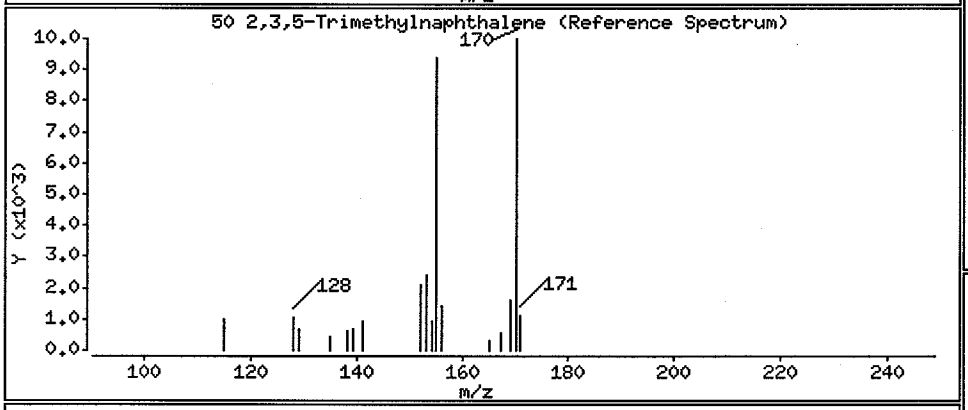
Column diameter: 0.25

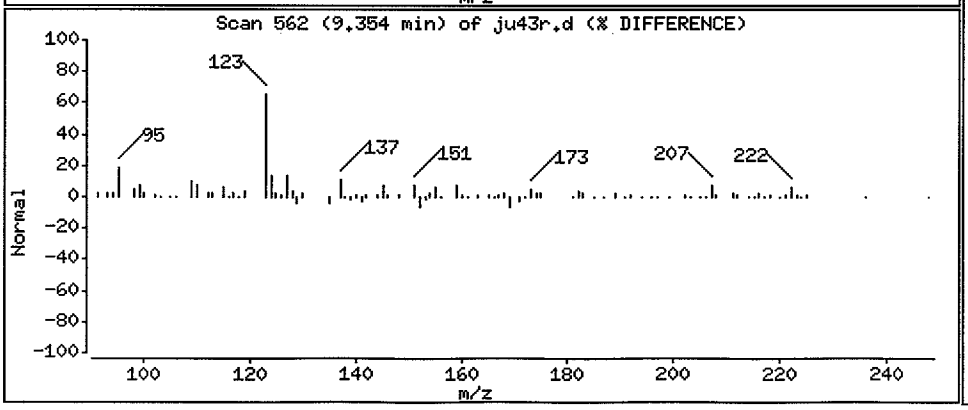
50 2,3,5-Trimethylnaphthalene

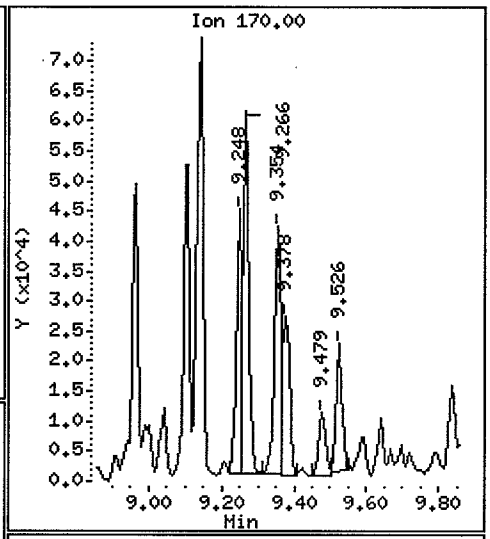
Concentration: 44.32 ug/kg

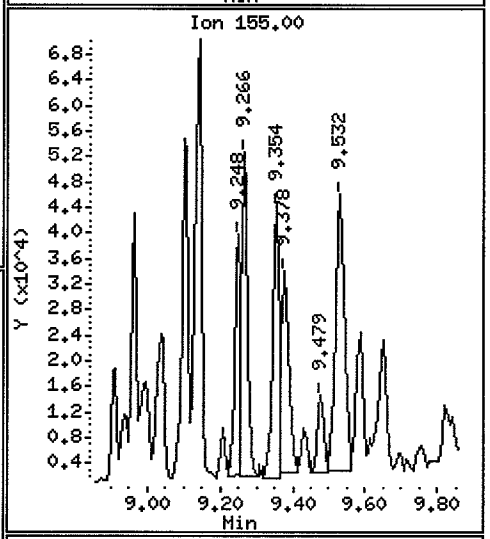


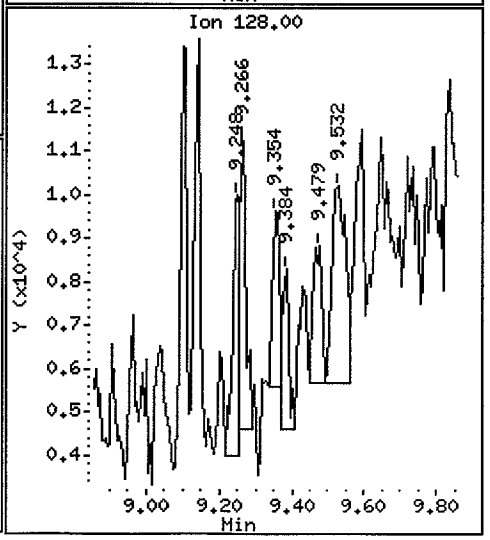












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

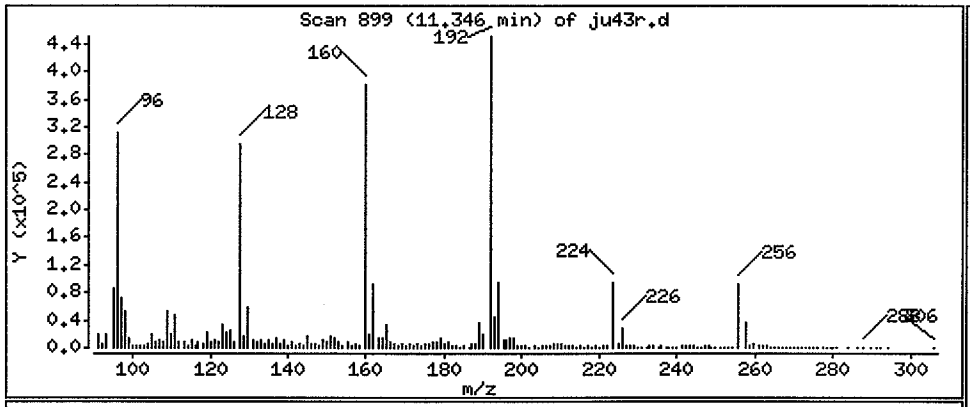
Operator: VTS

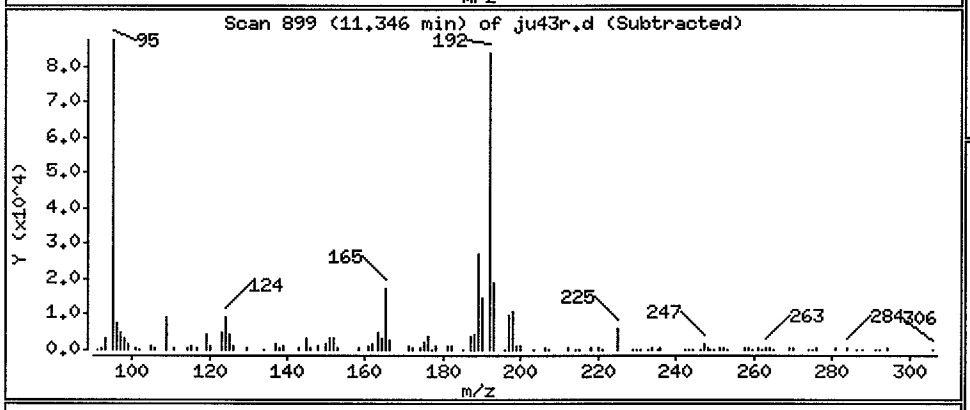
Column phase: ZB-5

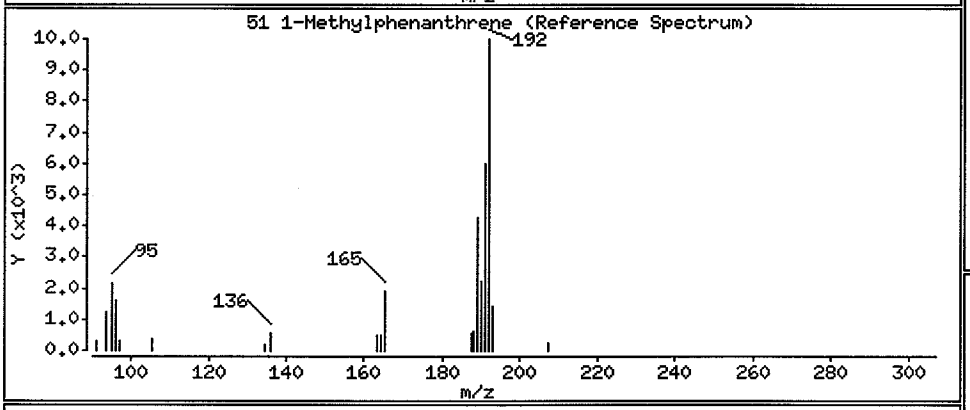
Column diameter: 0.25

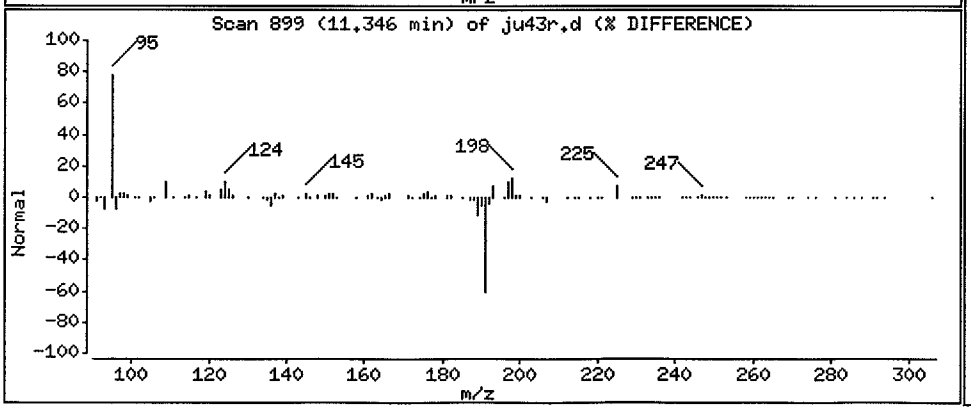
51 1-Methylphenanthrene

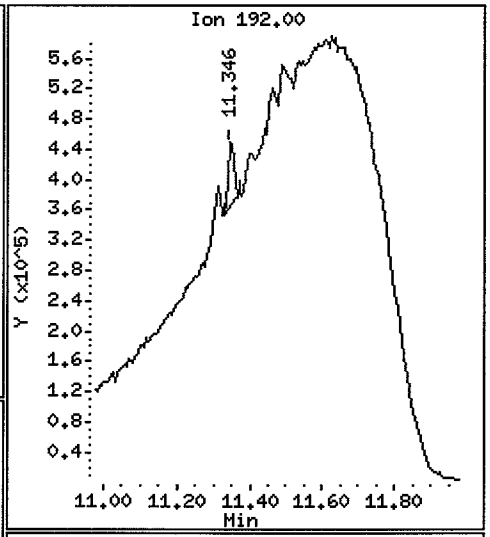
Concentration: 52.28 ug/kg

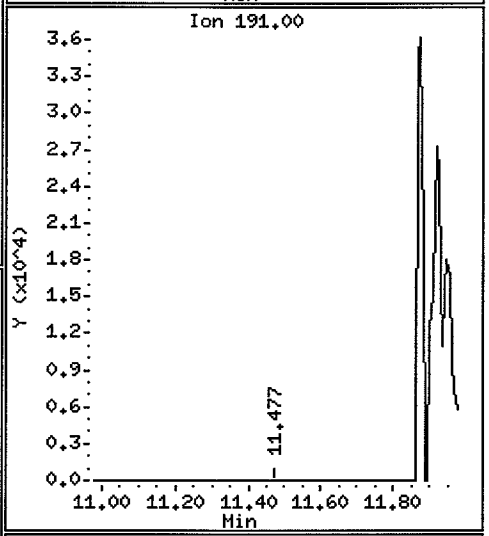


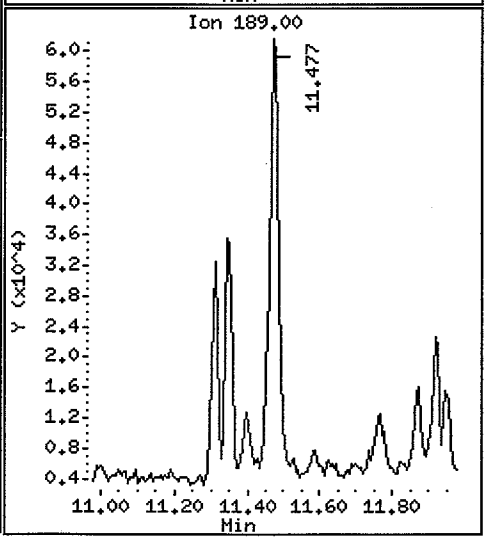












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

Sample Info: JU43R

Volume Injected (uL): 1.0

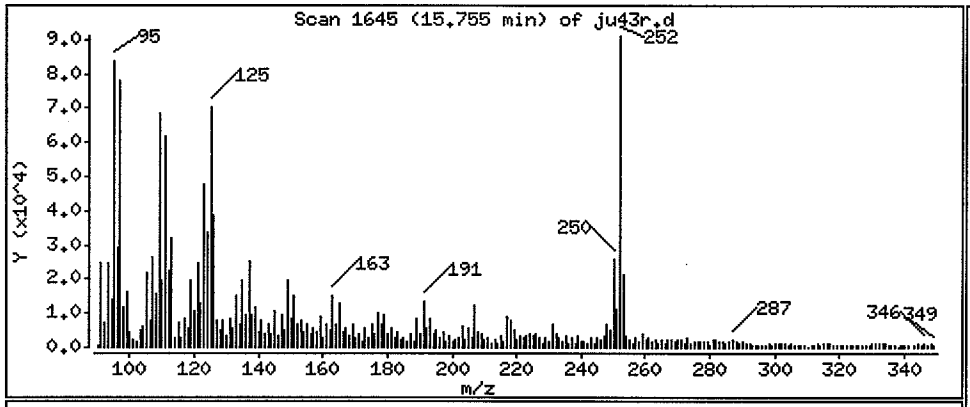
Operator: VTS

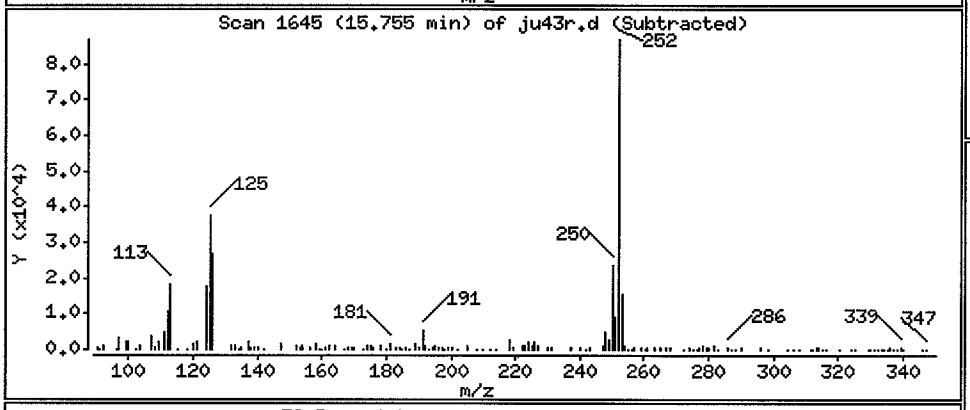
Column phase: ZB-5

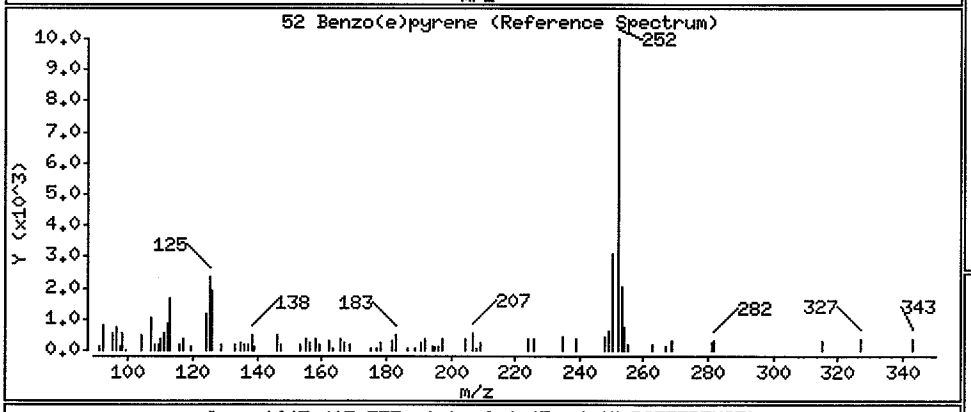
Column diameter: 0.25

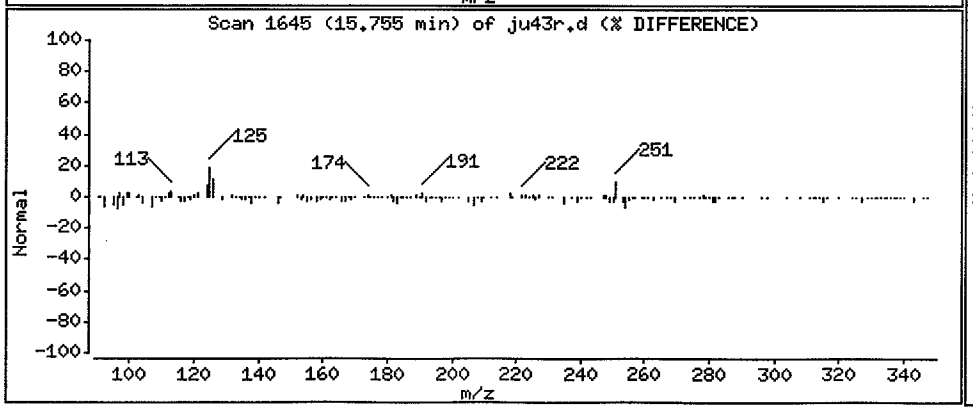
52 Benzo(e)pyrene

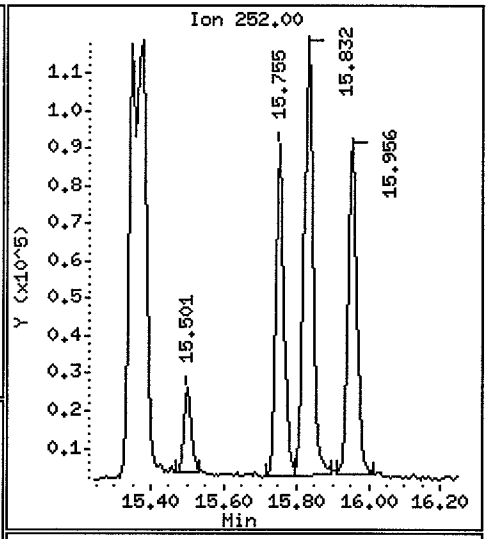
Concentration: 77.69 ug/kg

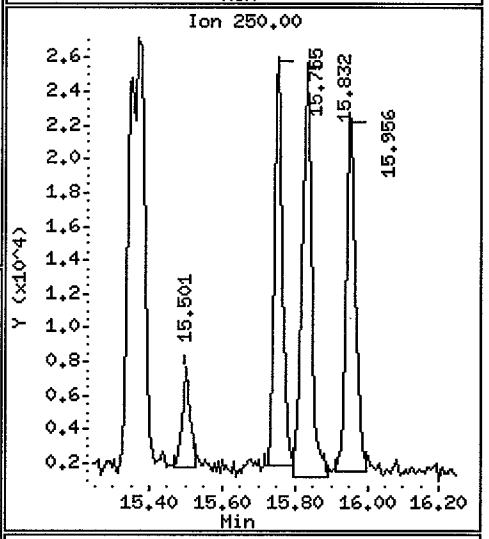


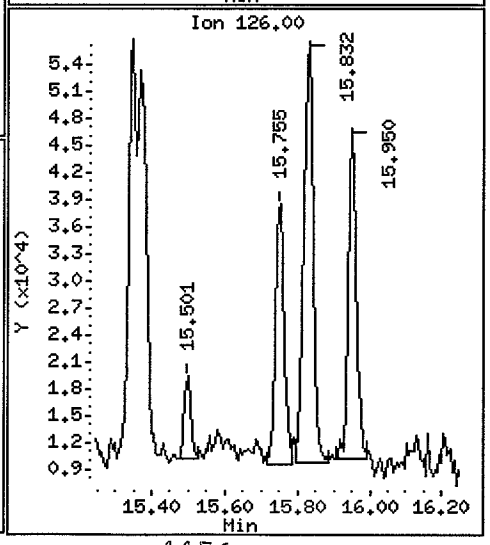












Data File: /chem3/nt1.i/20060912.b/ju43r.d

Date : 12-SEP-2006 22:06

Client ID: T4-S3-03-G

Instrument: nt1.i

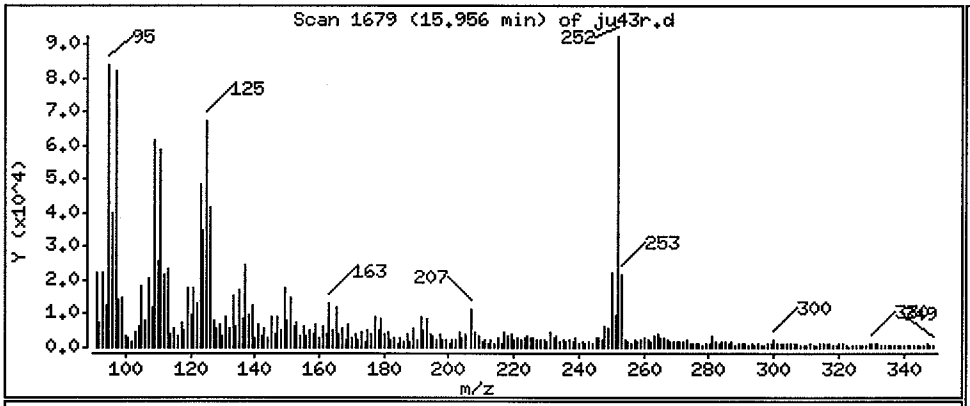
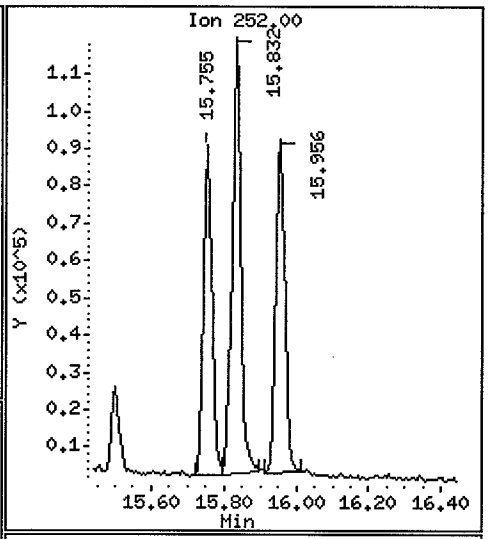
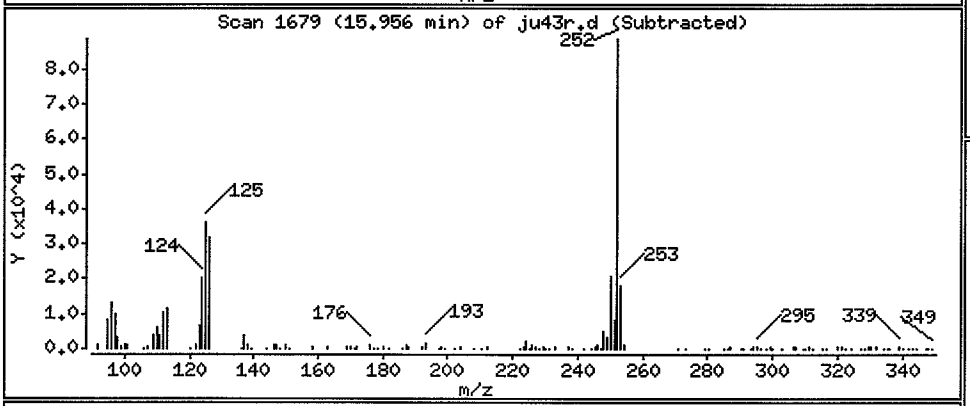
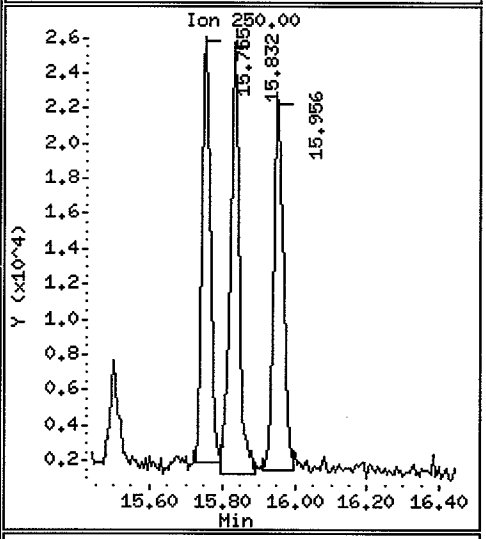
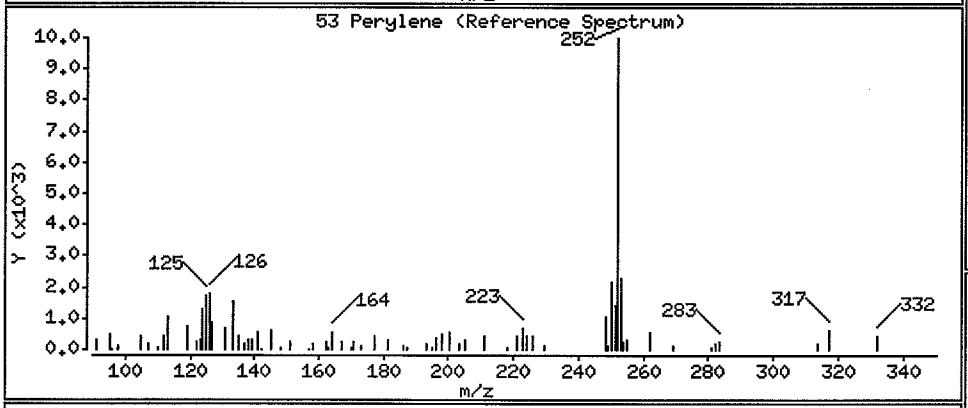
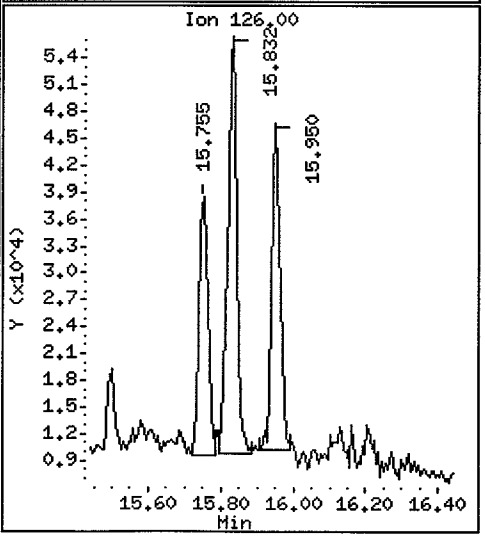
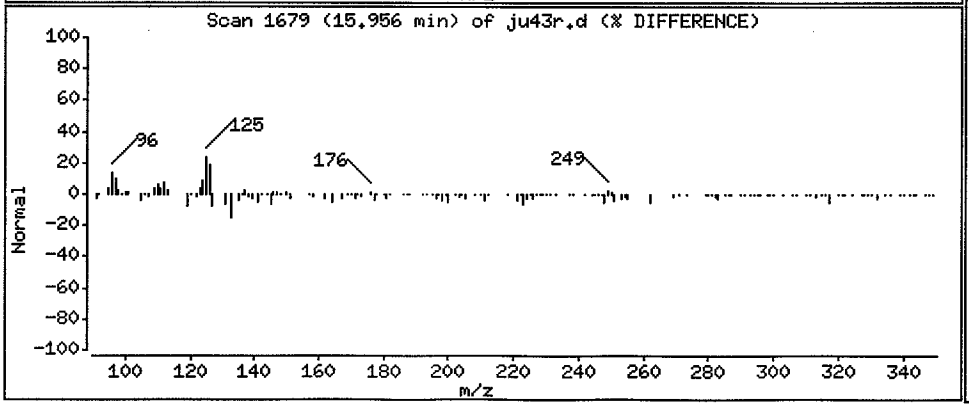
Sample Info: JU43R

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

53 Perylene

Concentration: 89.71 ug/kg