User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 01/24/2002 Time: 11:41:57

Sample: AE00467
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 1/24/02 11:41 Ended: 1/24/02 11:41 Analyst: DLV
Page: 1

	Component Name	Vial	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		109		5.0

Comments for Sample AE00467 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 01-24-2002 Time: 11:43:06

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for 31 of the 43 compounds in the LCS Standard were above their acceptance ranges. The pH of this sample when submitted to the laboratory was less than 2.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\5973N\02JAN11\00467.D Vial: 7
Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 14 10:32:38 2002 Quant Results File: SCAN508.RES

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Last Update : Fri Jan 11 13:20:07 2002
Response via : Initial Calibration
DataAcq Meth : SCAN508

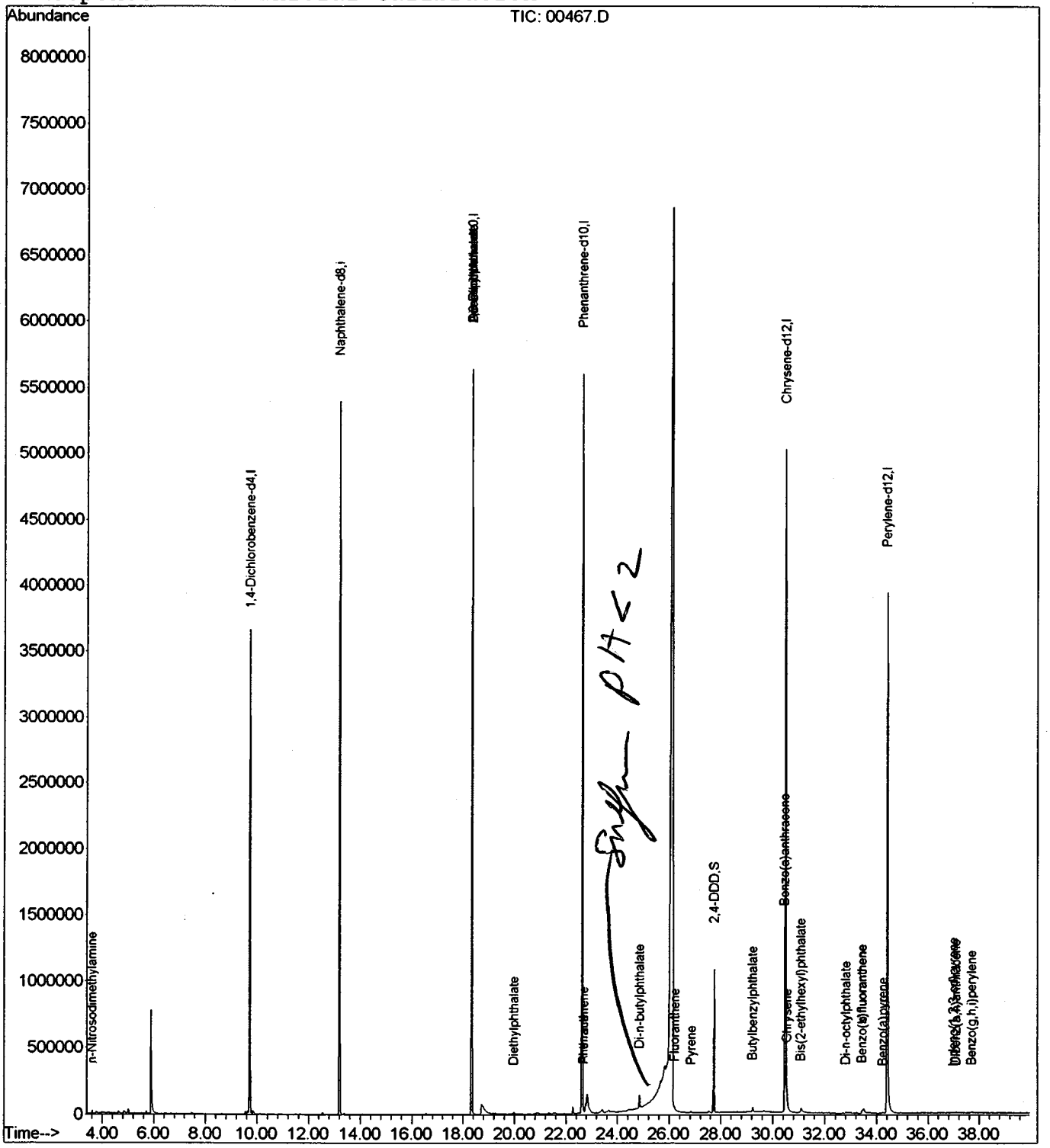
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.72	152	1272086	20.00	ug/L	0.00
10) Naphthalene-d8	13.19	136	5314219	20.00	ug/L	-0.02
17) Acenaphthene-d10	18.34	164	2732330	20.00	ug/L	-0.01
29) Phenanthrene-d10	22.65	188	4579231	20.00	ug/L	-0.02
38) Chrysene-d12	30.50	240	4202898	20.00	ug/L	-0.01
44) Perylene-d12	34.42	264	3081038	20.00	ug/L	0.00
System Monitoring Compounds						
37) 2,4-DDD	27.73	235	393674	5.44	ug/L	0.00
Spiked Amount 5.000			Recovery =	108.80%		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.61	74	9827	0.18	ug/L #	11
20) Dimethylphthalate	18.34	163	438676	2.43	ug/L #	55
21) 2,6-Dinitrotoluene	18.34	165	351356	9.98	ug/L #	17
25) Diethylphthalate	20.00	149	10938	0.06	ug/L	90
33) Phenanthrene	22.70	178	6242	0.02	ug/L #	61
34) Anthracene	22.70	178	6242	0.03	ug/L #	62
35) Di-n-butylphthalate	24.86	149	109947	0.37	ug/L	96
36) Fluoranthene	26.22	202	11054	0.04	ug/L #	82
39) Pyrene	26.85	202	10379	0.03	ug/L	87
40) Butylbenzylphthalate	29.24	149	22721	0.15	ug/L	93
41) Benzo(a)anthracene	30.47	228	53466	0.21	ug/L	92
42) Bis(2-ethylhexyl)phthalate	31.11	149	49925	0.79	ug/L	78
43) Chrysene	30.56	228	74620	0.30	ug/L	94
45) Di-n-octylphthalate	32.82	149	23345	0.08	ug/L	92
46) Benzo(b)fluoranthene	33.45	252	31133	0.13	ug/L	89
47) Benzo(k)fluoranthene	33.45	252	31133	0.13	ug/L	89
48) Benzo(a)pyrene	34.25	252	12851	0.06	ug/L #	77
49) Indeno(1,2,3-cd)pyrene	37.01	276	9529	0.06	ug/L #	82
50) Dibenz(a,h)anthracene	37.10	278	16198	0.11	ug/L #	74
51) Benzo(g,h,i)perylene	37.70	276	23831	0.15	ug/L	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\5973N\02JAN11\00467.D Vial: 7
Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 14 10:32 2002 Quant Results File: SCAN508.RE

Method : C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title : 508 scan method
Last Update : Fri Jan 11 13:20:07 2002
Response via : Initial Calibration



00467.D SCAN508.M Mon Jan 14 10:32:39 2002 Page 2

LSC Area Percent Report

Data File : C:\MSDCHEM\1\5973N\02JAN11\00467.D Vial: 7
Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title : 508 scan method
Smoothing : OFF Filtering: 5
Sampling : 2 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 20
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

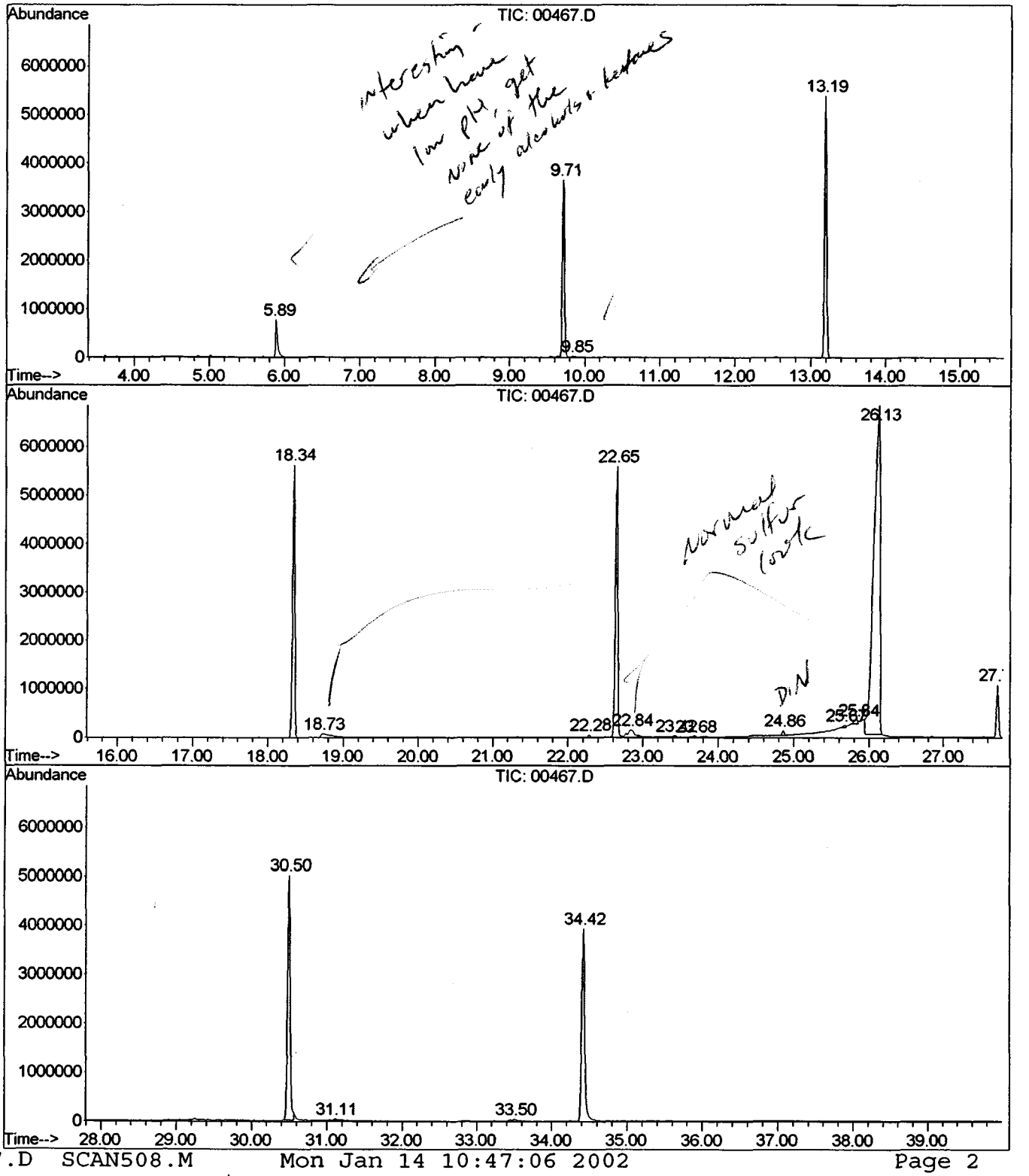
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.886	215	220	239	rBV	779803	1509226	3.82%	1.375%
2	9.710	551	555	561	rVV	3659911	7213790	18.28%	6.572%
3	9.847	561	567	577	rVV2	26075	98515	0.25%	0.090%
4	13.192	855	860	865	rBV	5391561	10231966	25.93%	9.321%
5	18.341	1305	1311	1315	rBV	5637656	11156514	28.27%	10.164%
6	18.730	1339	1345	1379	rBV3	79245	758011	1.92%	0.691%
7	22.280	1651	1656	1661	rVB	53699	93929	0.24%	0.086%
8	22.646	1681	1688	1693	rBV	5590871	12171405	30.84%	11.088%
9	22.840	1693	1705	1723	rVB3	145248	971842	2.46%	0.885%
10	23.422	1745	1756	1765	rBV5	25162	112228	0.28%	0.102%
11	23.684	1765	1779	1783	rBV5	19954	105722	0.27%	0.096%
12	24.860	1877	1882	1887	rBV	100932	214499	0.54%	0.195%
13	25.671	1949	1953	1955	rBV2	44577	109244	0.28%	0.100%
14	25.842	1961	1968	1969	rBV	84727	296047	0.75%	0.270%
15	26.128	1977	1993	1997	rVB	6782912	39460942	100.00%	35.949%
16	27.726	2127	2133	2139	rVV	1077221	1939542	4.92%	1.767%
17	30.500	2369	2376	2381	rBV	5005331	12437840	31.52%	11.331%
18	31.105	2425	2429	2451	rVB	34059	152930	0.39%	0.139%
19	33.503	2635	2639	2655	rVB2	34994	161281	0.41%	0.147%
20	34.416	2713	2719	2751	rVV2	3933139	10573025	26.79%	9.632%

Sum of corrected areas: 109768498

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\5973N\02JAN11\00467.D
Operator :
Acquired : 11 Jan 2002 7:05 pm using AcqMethod SCAN508
Instrument : Instrumen
Sample Name: 508 scan
Misc Info : January 11, 2002
Vial Number: 7
Quant File :SCAN508.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\MSDCHEM\1\5973N\02JAN11\00467.D Vial: 7
Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

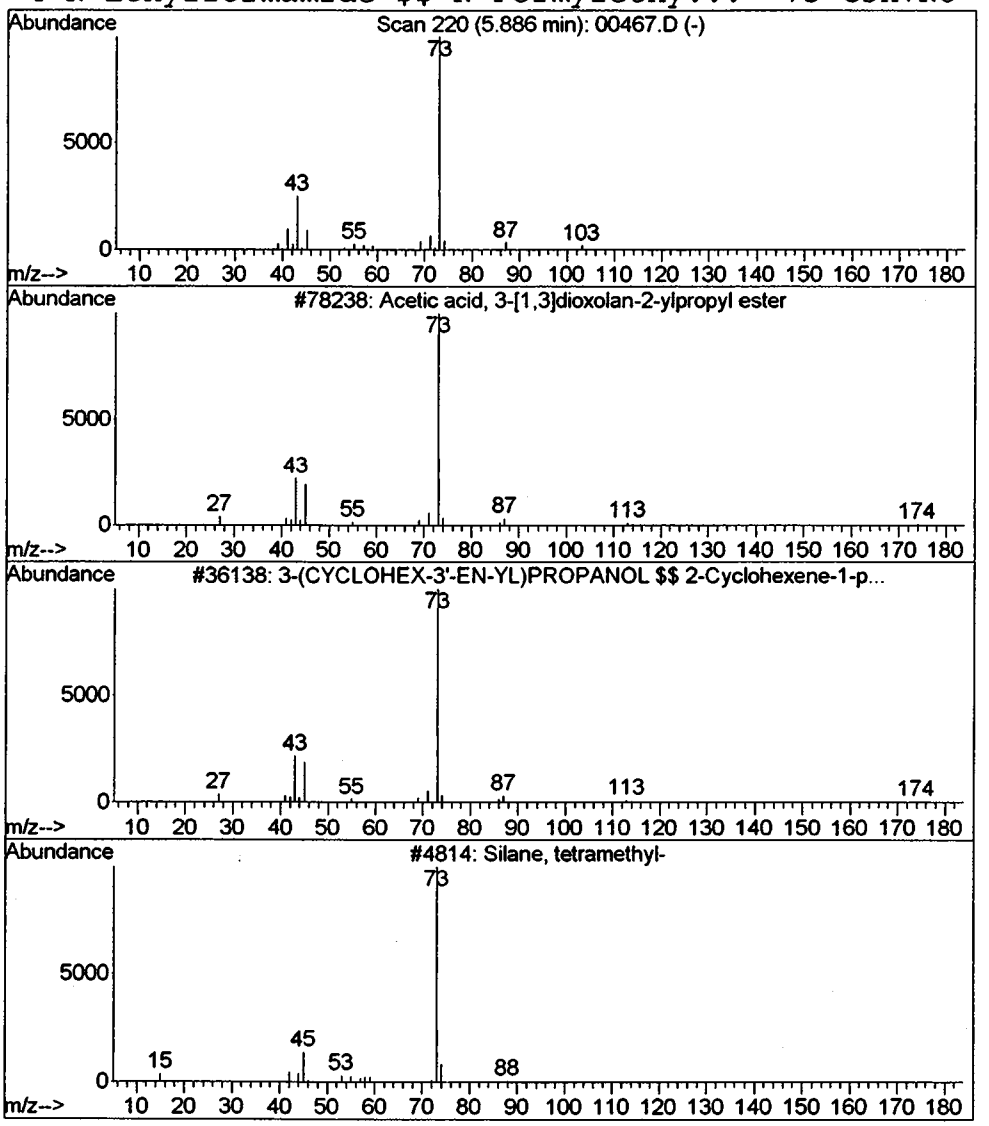
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

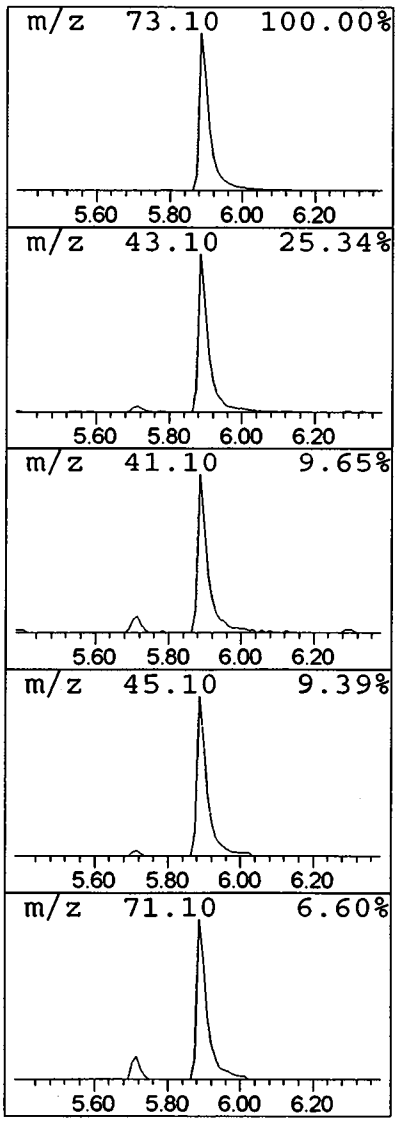
****

Peak Number 1 Acetic acid, 3-[1,3]dioxola... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.89	4.18 ug/L	1509230	1,4-Dichlorobenzene-d4	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, 3-[1,3]dioxolan-2-y...	174	C8H14O4	000000-00-0	33
2	3-(CYCLOHEX-3'-EN-YL)PROPANOL $$...	174	C8H14O4	015745-87-6	33
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	25
4	N-Ethylformamide $$ N-Formylethy...	73	C3H7NO	000627-45-2	9





Library Search Compound Report

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Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

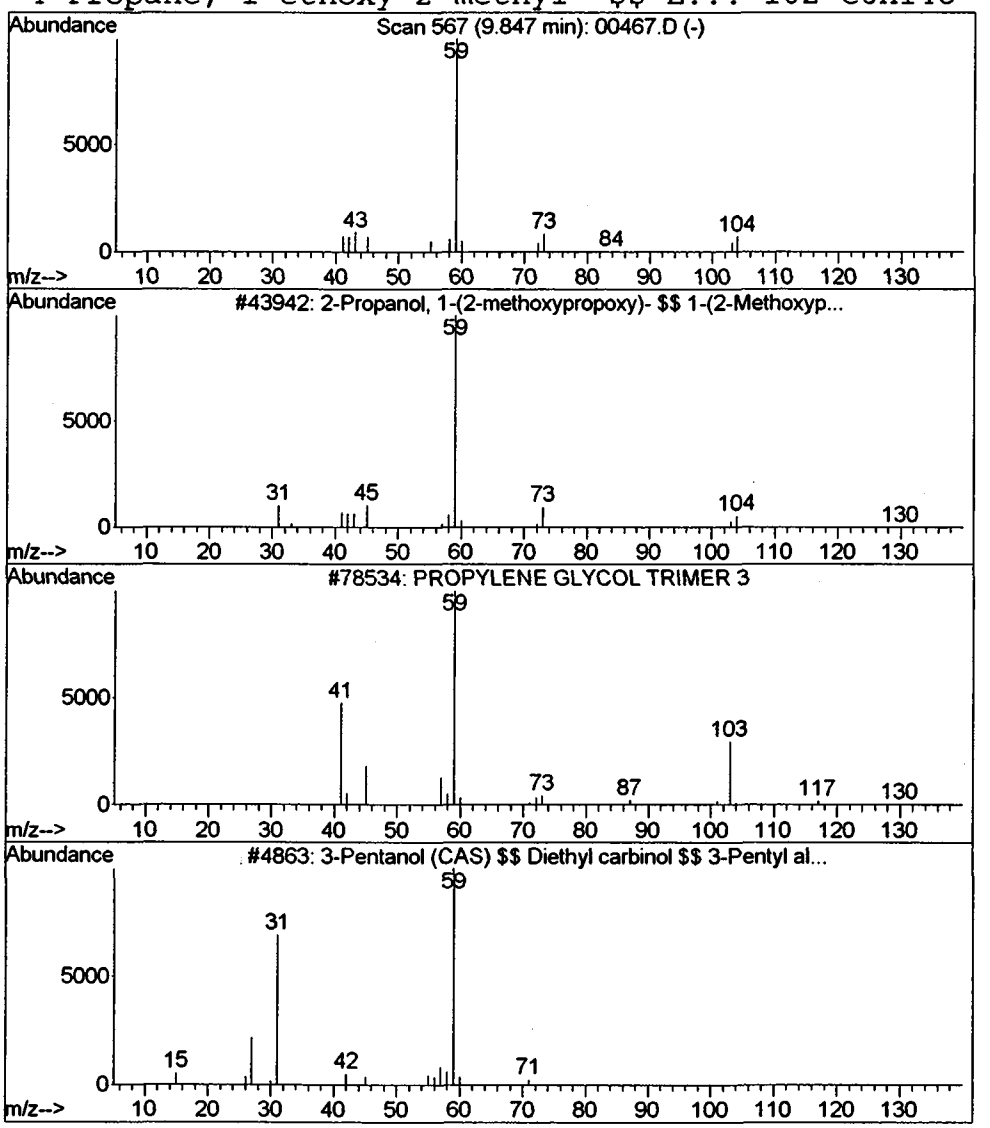
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

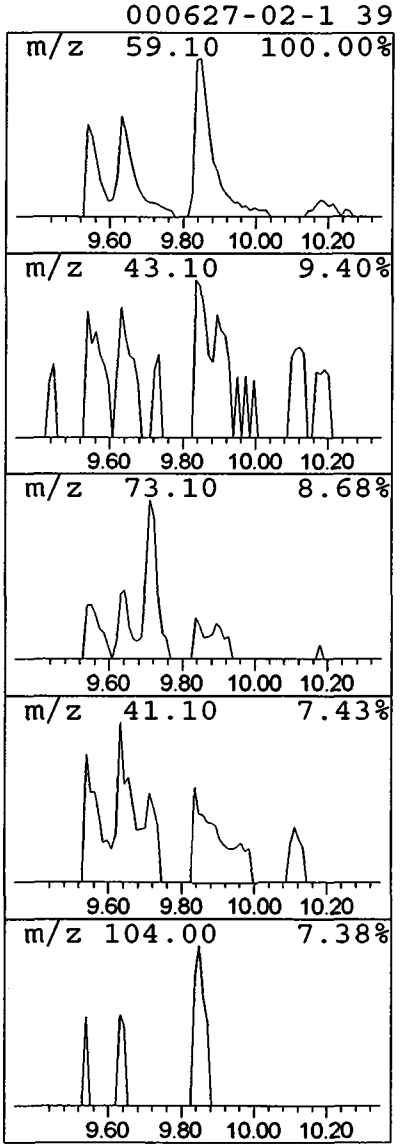
****

Peak Number 2 2-Propanol, 1-(2-methoxypro... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	0.27 ug/L	98515	1,4-Dichlorobenzene-d4	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxypropoxy)...	148	C7H16O3	013429-07-7	78
2	PROPYLENE GLYCOL TRIMER 3	174	C9H18O3	000000-00-0	64
3	3-Pentanol (CAS) $$ Diethyl carb...	88	C5H12O	000584-02-1	39
4	Propane, 1-ethoxy-2-methyl- $$ E...	102	C6H14O	000627-02-1	39





Library Search Compound Report

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Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

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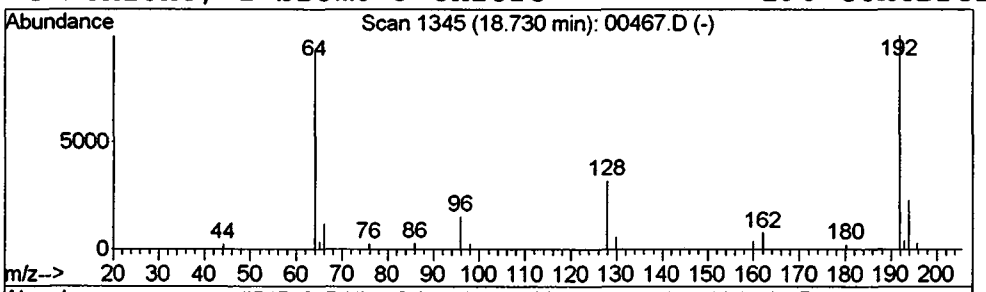
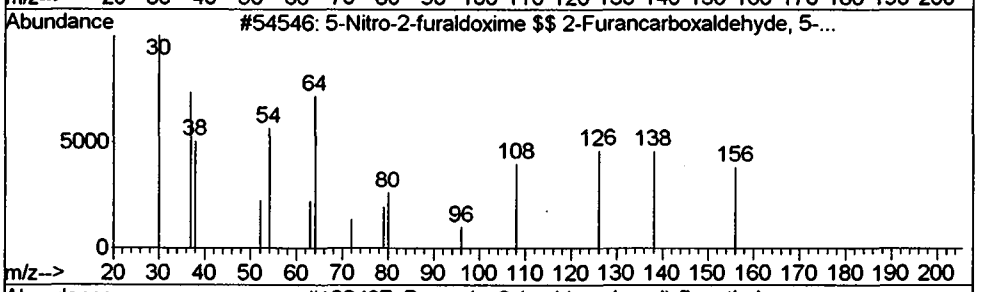
Peak Number 3 5-Nitro-2-furaldoxime $$ 2-... Concentration Rank 4

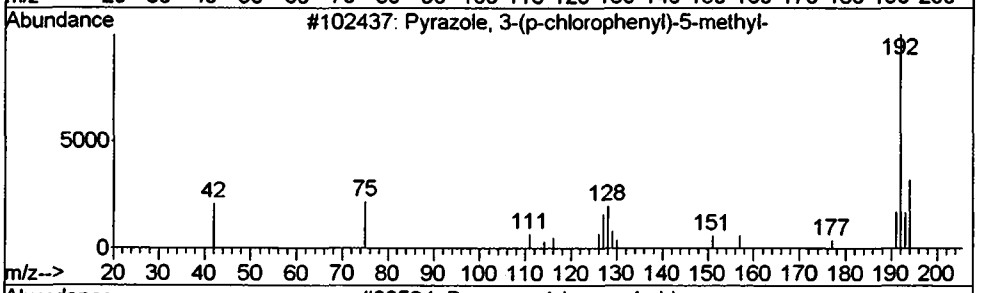
R.T.	EstConc	Area	Relative to ISTD	R.T.
18.73	1.36 ug/L	758011	Acenaphthene-d10	18.34

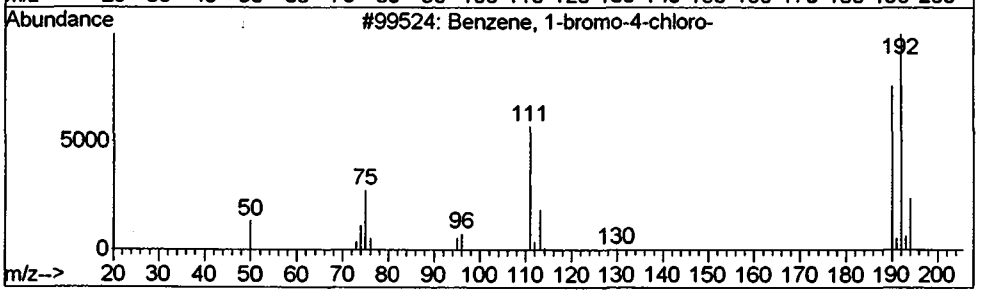
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Nitro-2-furaldoxime $$ 2-Furan...	156	C5H4N2O4	000555-15-7	42
2	Pyrazole, 3-(p-chlorophenyl)-5-m...	192	C10H9ClN2	017629-27-5	9
3	Benzene, 1-bromo-4-chloro-	190	C6H4BrCl	000106-39-8	9
4	Benzene, 1-bromo-3-chloro-	190	C6H4BrCl	000108-37-2	9

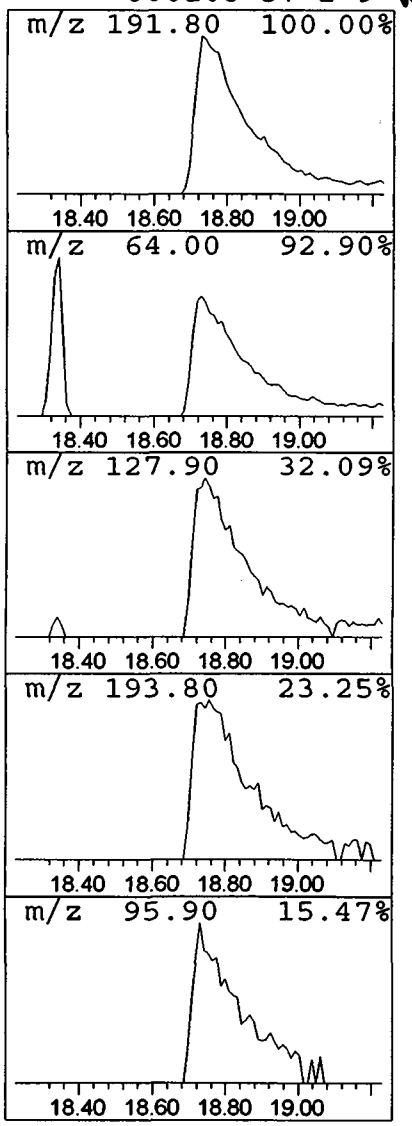
NO GOOD MATCH











Library Search Compound Report

Data File : C:\MSDCHEM\1\5973N\02JAN11\00467.D Vial: 7
Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

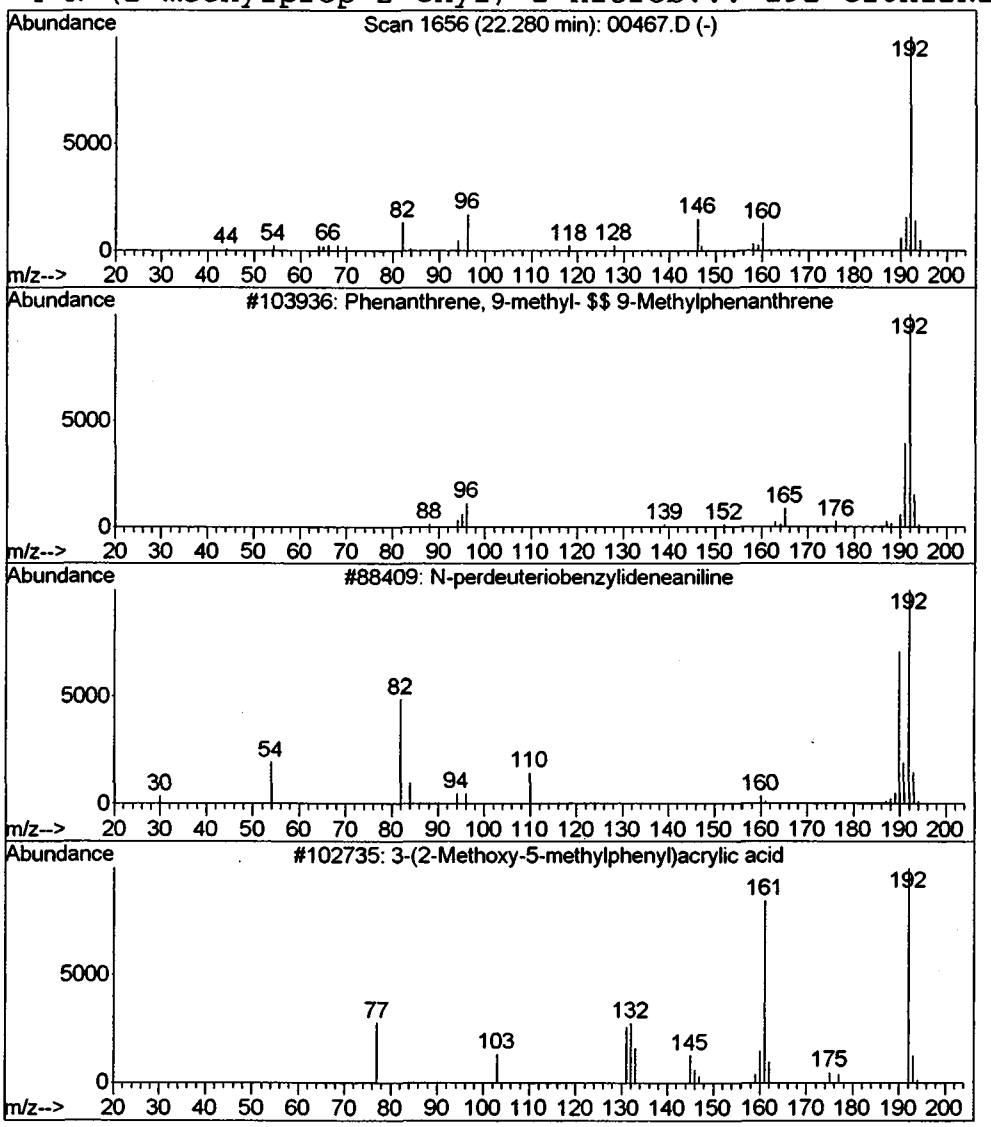
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

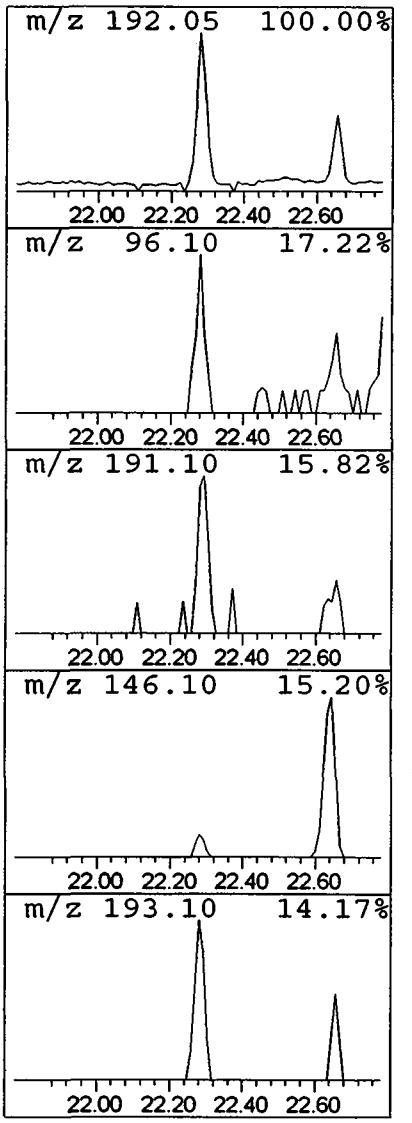
****

Peak Number 4 Phenanthrene, 9-methyl- $$ ... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.28	0.15 ug/L	93929	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 9-methyl- $$ 9-Met...	192	C15H12	000883-20-5	59
2	N-perdeuteriobenzylideneaniline	192	C13D11N	000538-51-2	58
3	3-(2-Methoxy-5-methylphenyl)acry...	192	C11H12O3	103986-76-1	53
4	N-(2-methylprop-2-enyl)-2-nitrob...	192	C10H12N2O2	000000-00-0	49





Library Search Compound Report

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Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
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Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
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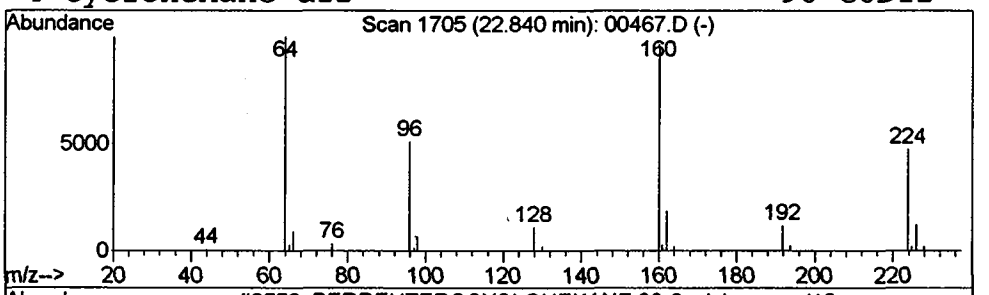
****

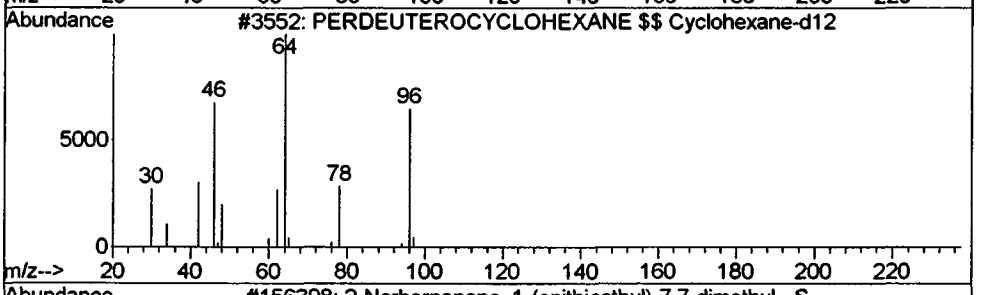
Peak Number 5 PERDEUTEROCYCLOHEXANE $$ Cy... Concentration Rank 3

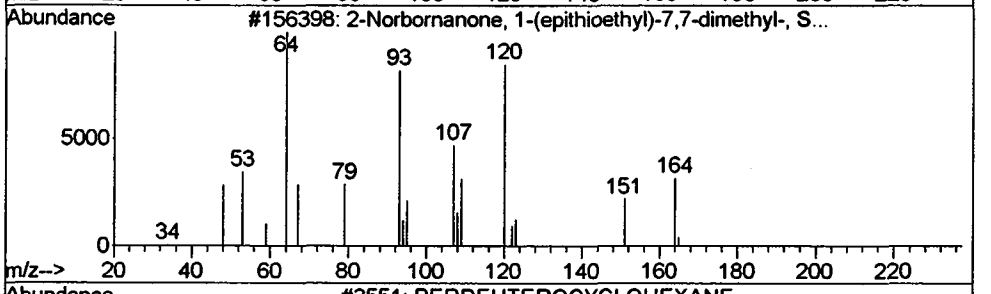
R.T.	EstConc	Area	Relative to ISTD	R.T.
22.84	1.60 ug/L	971842	Phenanthrene-d10	22.65

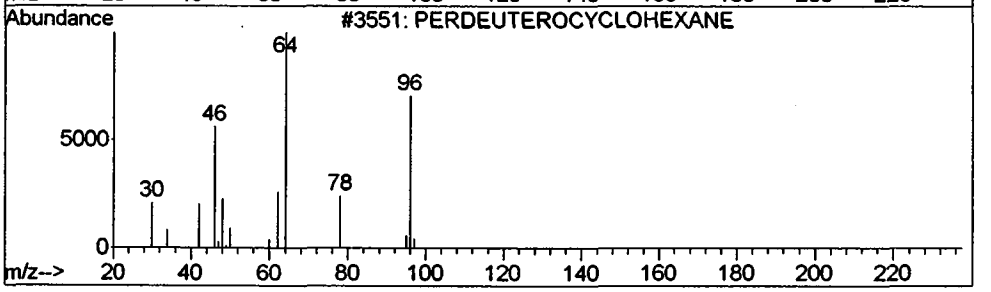
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	PERDEUTEROCYCLOHEXANE $$ Cyclohe...	96	C6D12	001735-17-7	40
2	2-Norbornanone, 1-(epithioethyl)...	228	C11H16O3S	001782-93-0	28
3	PERDEUTEROCYCLOHEXANE	96	C6D12	001735-17-7	7
4	Cyclohexane-d12	96	C6D12	001735-17-7	7

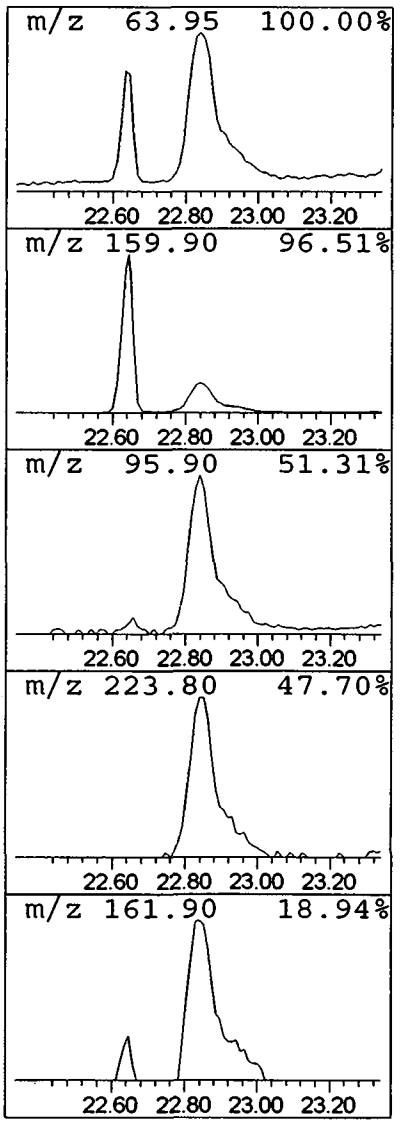
From Hexane Soln.











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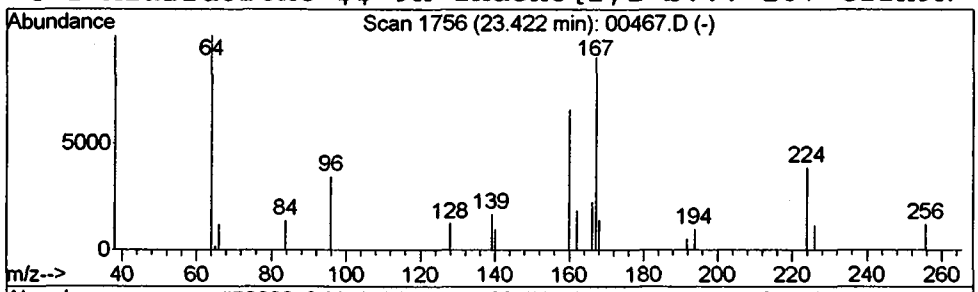
****

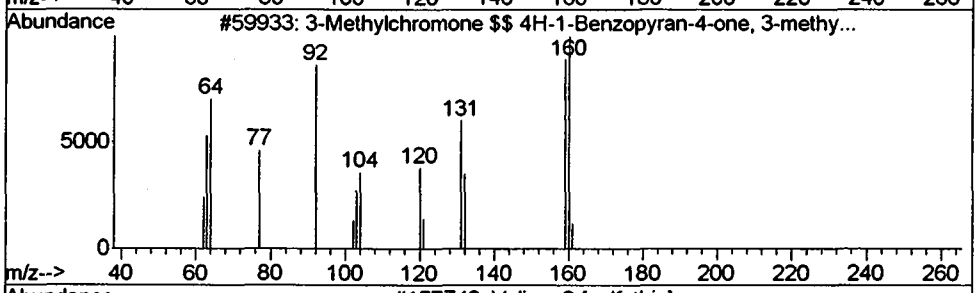
Peak Number 6 3-Methylchromone $$ 4H-1-Be... Concentration Rank 8

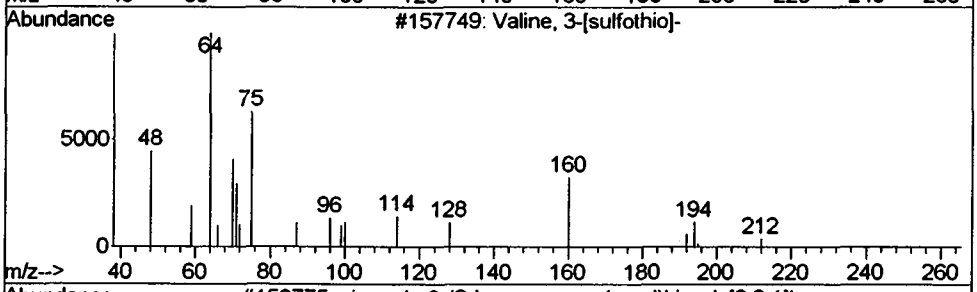
R.T.	EstConc	Area	Relative to ISTD	R.T.
23.42	0.18 ug/L	112228	Phenanthrene-d10	22.65

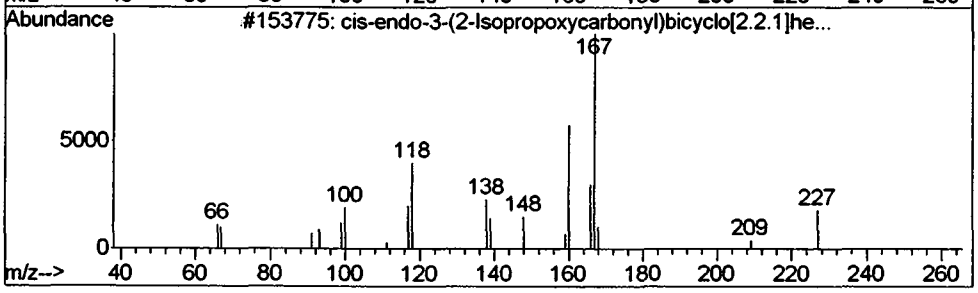
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylchromone $$ 4H-1-Benzopy...	160	C10H8O2	000085-90-5	50
2	Valine, 3-[sulfothio]-	229	C5H11NO5S2	000000-00-0	40
3	cis-endo-3-(2-Isopropoxycarbonyl...	226	C12H18O4	000000-00-0	38
4	1-Azafluorene $$ 9H-Indeno[2,1-b...	167	C12H9N	000244-44-0	35

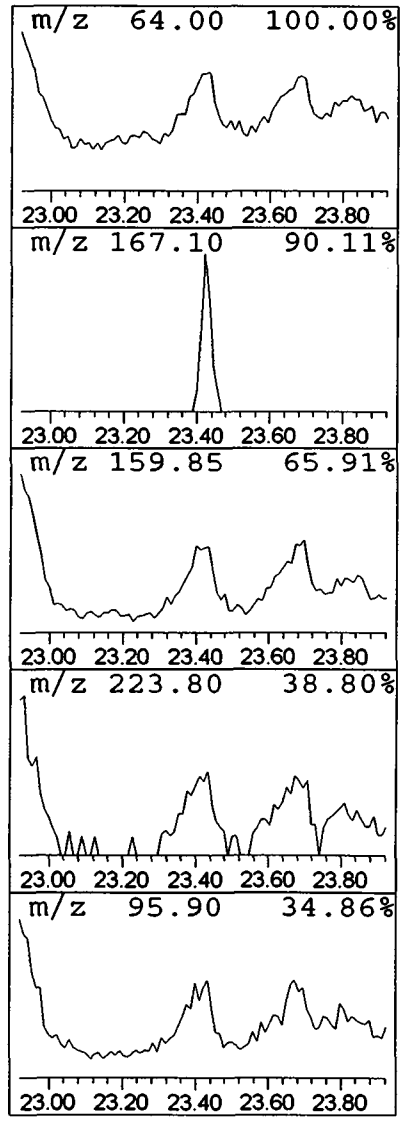
NO GOOD MATCH











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Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

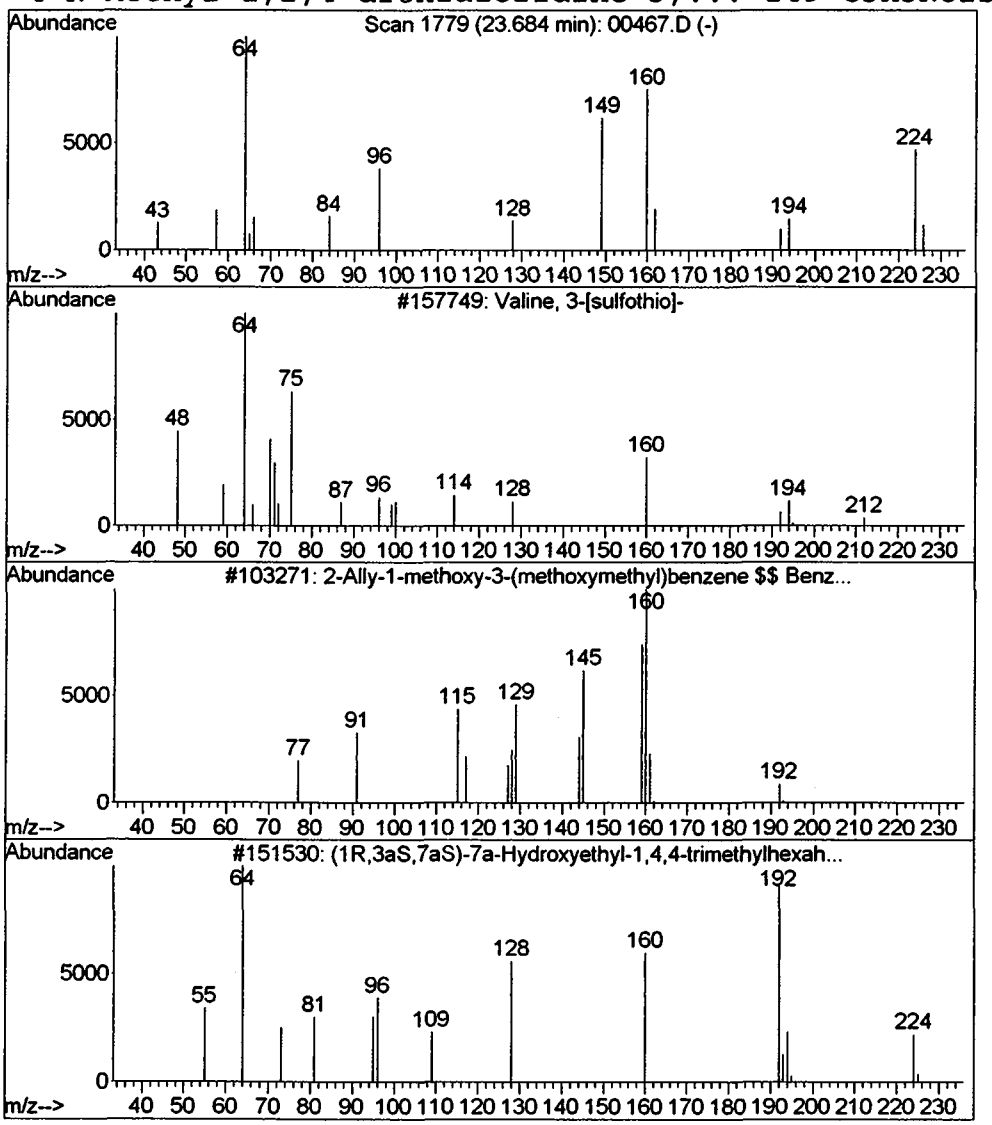
****

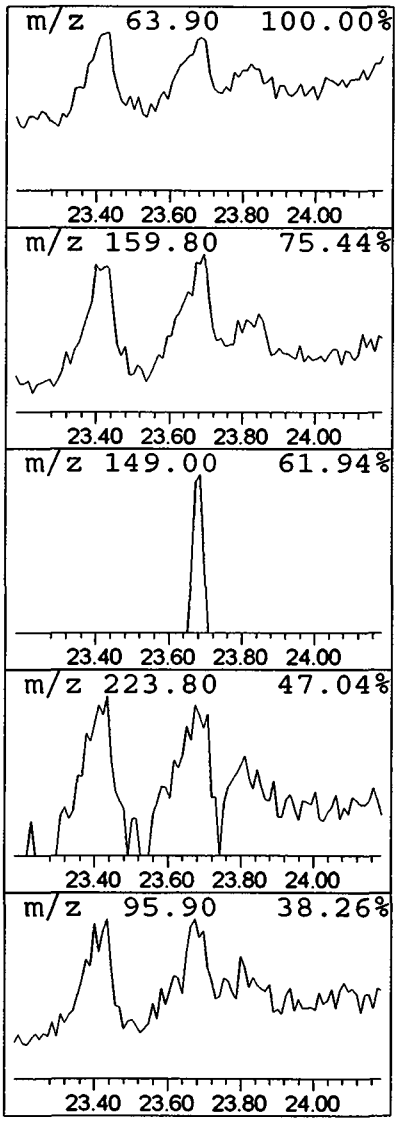
Peak Number 7 Valine, 3-[sulfothio]- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.68	0.17 ug/L	105722	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Valine, 3-[sulfothio]-	229	C5H11NO5S2	000000-00-0	33
2	2-Ally-1-methoxy-3-(methoxymethy...	192	C12H16O2	128920-02-5	9
3	(1R,3aS,7aS)-7a-Hydroxyethyl-1,4...	224	C14H24O2	128790-34-1	9
4	N-Methyl-1,2,4-dithiazolidine-3,...	149	C3H3NO2S2	018137-43-4	7

NO GOOD MATCH





Library Search Compound Report

Data File : C:\MSDCHEM\1\5973N\02JAN11\00467.D Vial: 7
Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

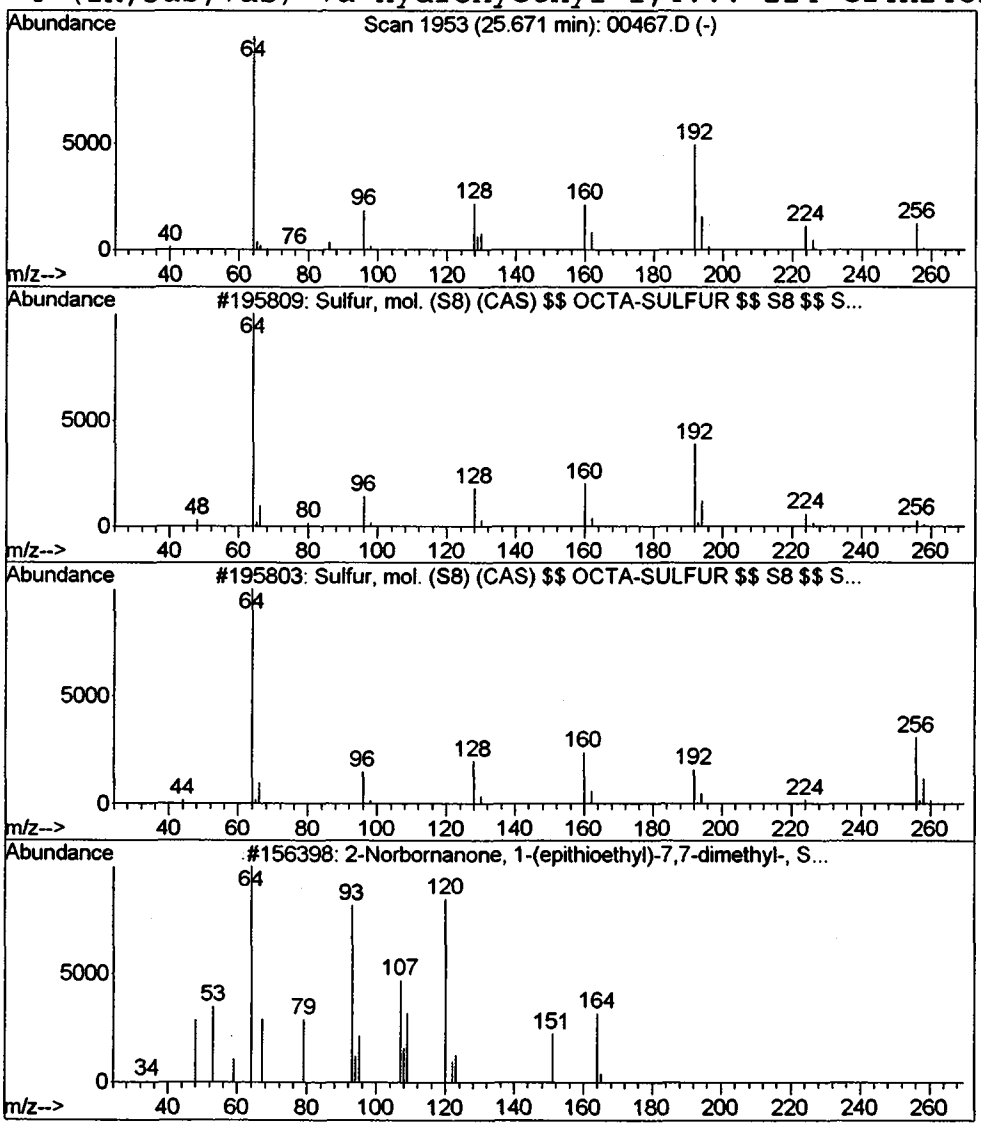
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

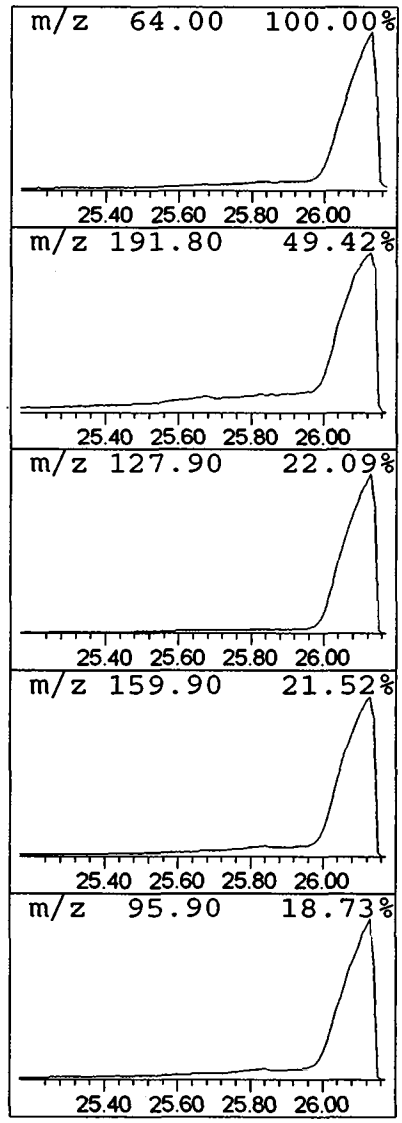
****

Peak Number 8 Sulfur, mol. (S8) (CAS) $$ ... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.67	0.18 ug/L	109244	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur, mol. (S8) (CAS) $$ OCTA-...	256	S8	010544-50-0	83
2	Sulfur, mol. (S8) (CAS) $$ OCTA-...	256	S8	010544-50-0	56
3	2-Norbornanone, 1-(epithioethyl)...	228	C11H16O3S	001782-93-0	36
4	(1R,3aS,7aS)-7a-Hydroxyethyl-1,4...	224	C14H24O2	128790-34-1	10





Library Search Compound Report

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Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

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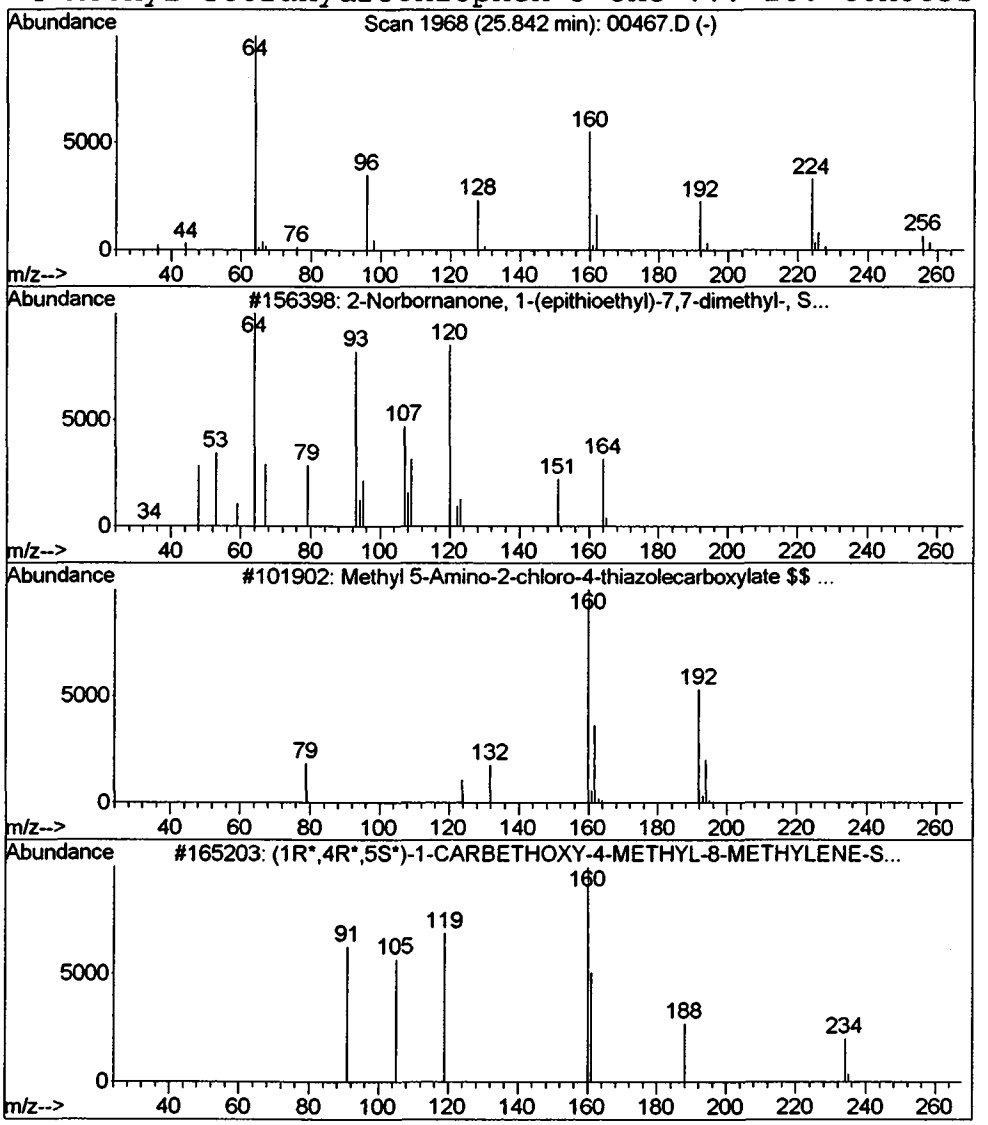
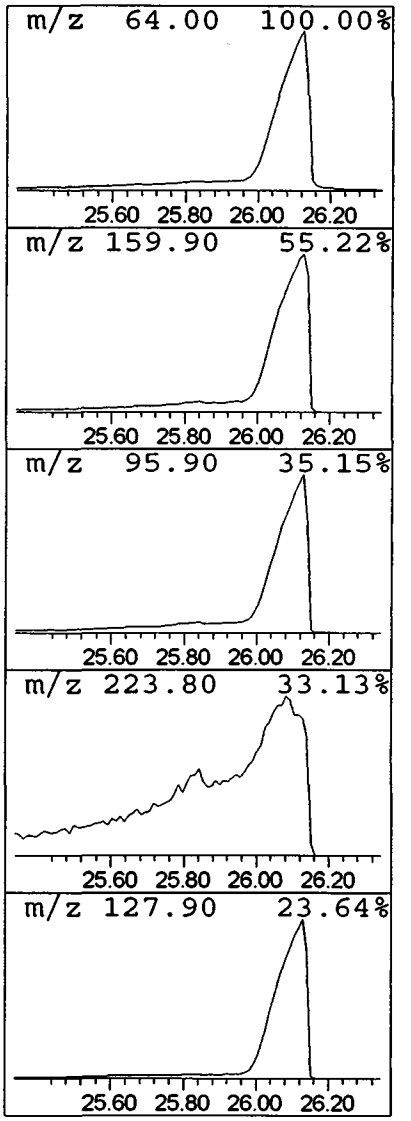
Peak Number 9 2-Norbornanone, 1-(epithioe... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.84	0.49 ug/L	296047	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Norbornanone, 1-(epithioethyl)...	228	C11H16O3S	001782-93-0	33
2	Methyl 5-Amino-2-chloro-4-thiazo...	192	C5H5ClN2O2S	000000-00-0	25
3	(1R*,4R*,5S*)-1-CARBETHOXY-4-MET...	234	C15H22O2	043219-76-7	9
4	Methyl Tetrahydrothiophen-3-one-...	160	C6H8O3S	000000-00-0	9

NO GOOD MATCH





Library Search Compound Report

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Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

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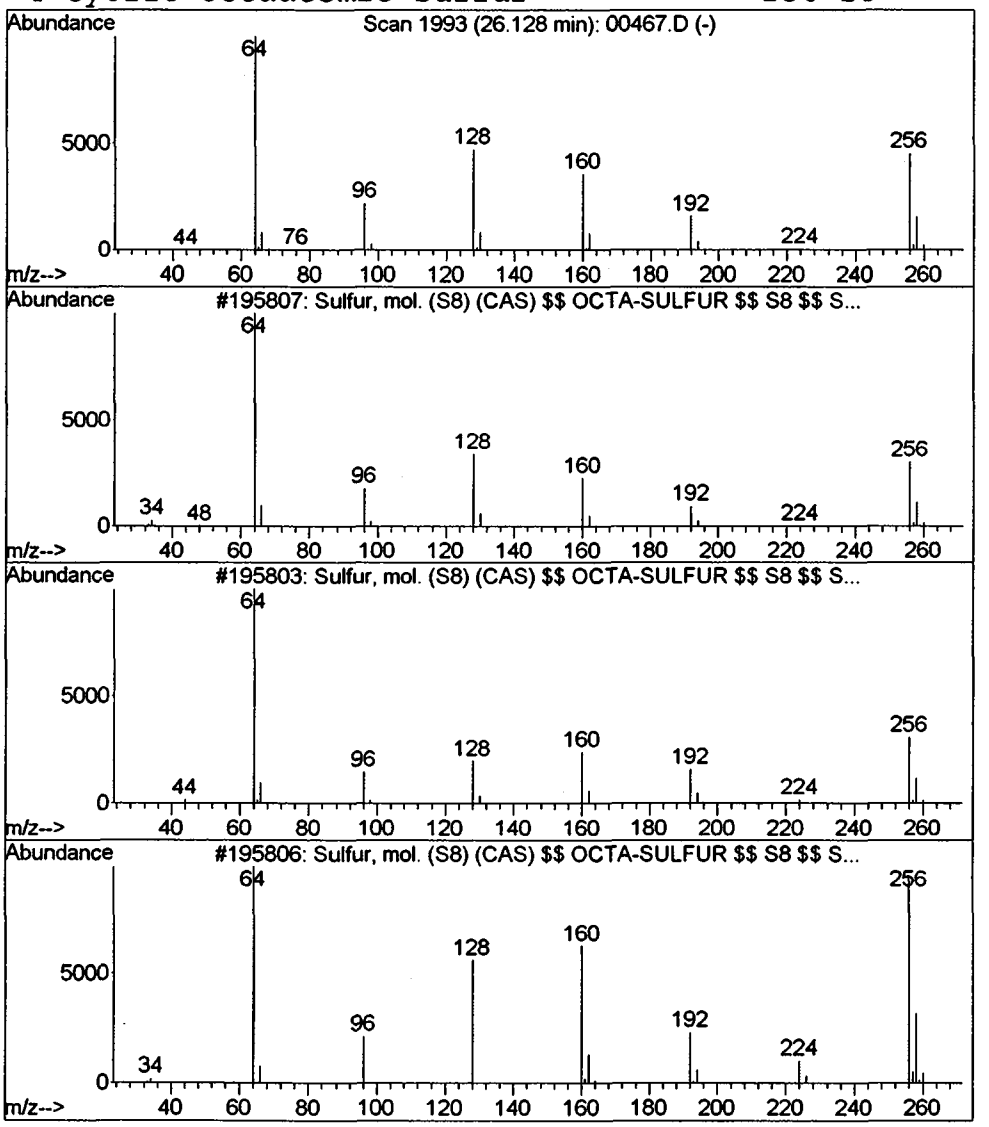
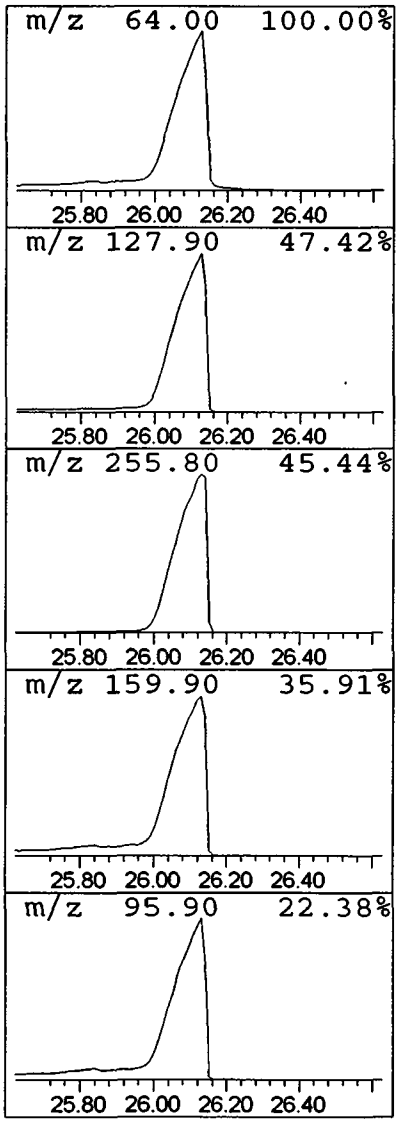
Peak Number 10 Sulfur, mol. (S8) (CAS) $$ ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.13	64.84 ug/L	39460900	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur, mol. (S8) (CAS) $$ OCTA-...	256	S8	010544-50-0	97
2	Sulfur, mol. (S8) (CAS) $$ OCTA-...	256	S8	010544-50-0	94
3	Sulfur, mol. (S8) (CAS) $$ OCTA-...	256	S8	010544-50-0	94
4	Cyclic octaatomic sulfur	256	S8	010544-50-0	91





Library Search Compound Report

Data File : C:\MSDCHEM\1\5973N\02JAN11\00467.D Vial: 7
Acq On : 11 Jan 2002 7:05 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 11, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

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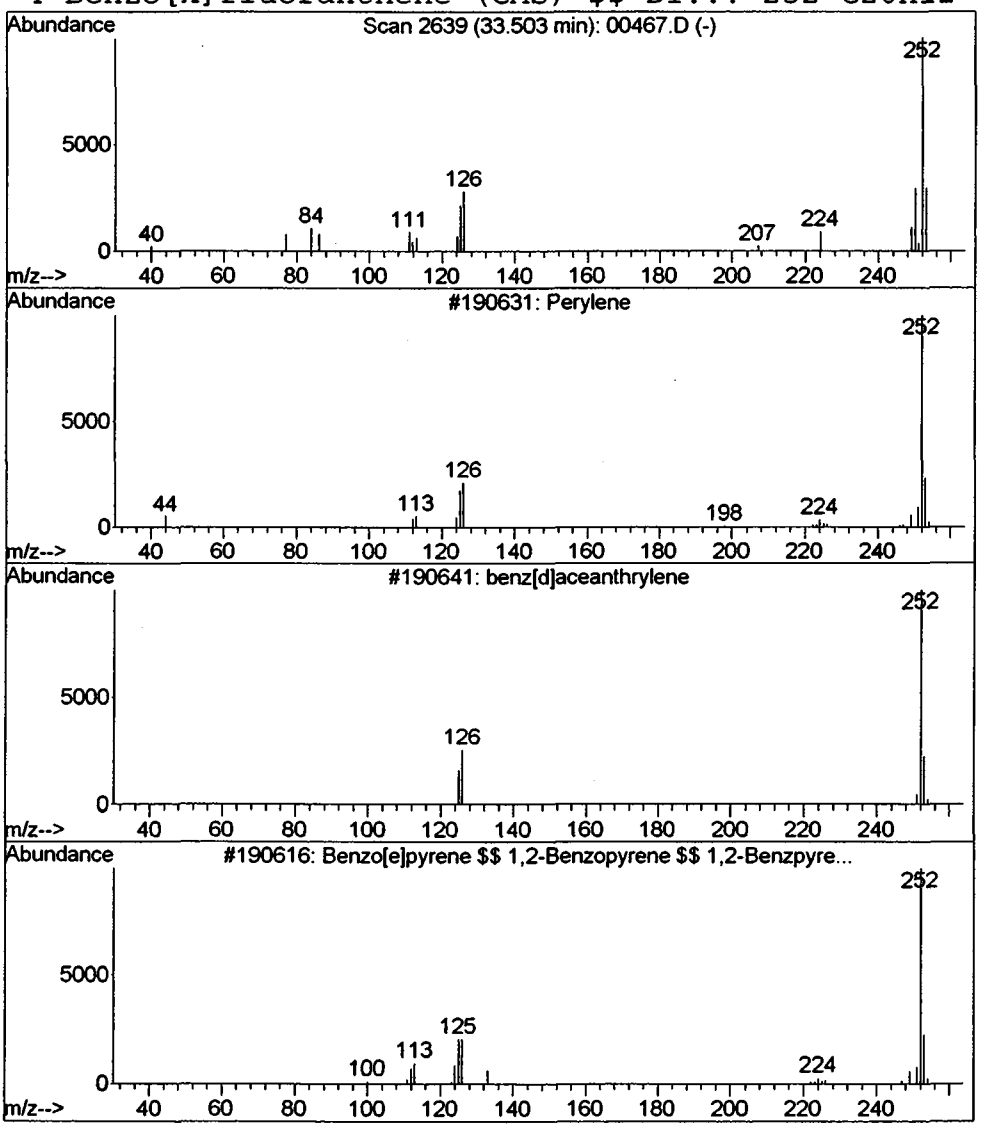
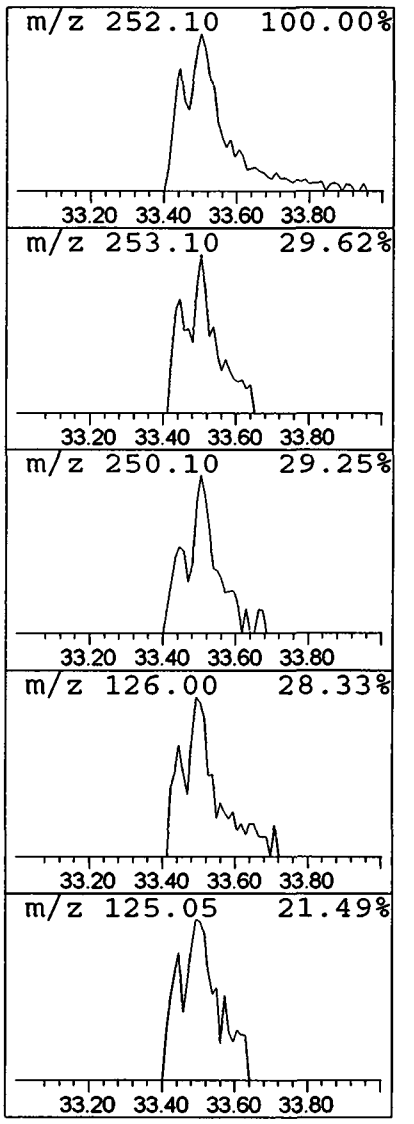
Peak Number 11 Perylene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.50	0.31 ug/L	161281	Perylene-d12	34.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	68
2	benz[d]aceanthrylene	252	C20H12	019770-52-6	64
3	Benzo[e]pyrene $$ 1,2-Benzopyren...	252	C20H12	000192-97-2	59
4	Benzo[k]fluoranthene (CAS) $$ Di...	252	C20H12	000207-08-9	59





Tentatively Identified Compound (LSC) summary

Operator ID: Date Acquired: 11 Jan 2002 7:05 pm
Data File: C:\MSDCHEM\1\5973N\02JAN11\00467.D
Name: 508 scan
Misc: January 11, 2002
Method: C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title: 508 scan method
Library Searched: C:\DATABASE\WILEY7N.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Acetic acid, 3-[1...	5.89	4.2	ug/L	1509230	1	9.72	7213790	20.0
2-Propanol, 1-(2-...	9.85	0.3	ug/L	98515	1	9.72	7213790	20.0
5-Nitro-2-furaldo...	18.73	1.4	ug/L	758011	3	18.34	11156500	20.0
Phenanthrene, 9-m...	22.28	0.2	ug/L	93929	4	22.65	12171400	20.0
PERDEUTEROCYCLOHE...	22.84	1.6	ug/L	971842	4	22.65	12171400	20.0
3-Methylchromone ...	23.42	0.2	ug/L	112228	4	22.65	12171400	20.0
Valine, 3-[sulfot...	23.68	0.2	ug/L	105722	4	22.65	12171400	20.0
Sulfur, mol. (S8)...	25.67	0.2	ug/L	109244	4	22.65	12171400	20.0
2-Norbornanone, 1...	25.84	0.5	ug/L	296047	4	22.65	12171400	20.0
Sulfur, mol. (S8)...	26.13	64.8	ug/L	39460900	4	22.65	12171400	20.0
Perylene	33.50	0.3	ug/L	161281	6	34.42	10573000	20.0