User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/30/2002 Time: 09:21:29

Sample: AE11422
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/30/02 09:21 Ended: 5/30/02 09:21 Analyst: DLV
Page: 1

	Component Name	Vial	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		86		10.0

Comments for Sample AE11422 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-30-2002 Time: 09:21:54

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for 3 of the 43 compounds in the LCS Standard were low.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\052002\11422.D Vial: 12
Acq On : 20 May 2002 10:14 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 23 10:48:33 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Mon May 13 11:40:29 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.93	152	3737694	40.00	ug/L	0.00
10) Napthalene-d8	13.43	136	14736059	40.00	ug/L	0.00
17) Acenapthalene-d10	18.57	164	7975738	40.00	ug/L	0.00
29) Phenanthranene-d10	22.95	188	11558494	40.00	ug/L	0.00
37) Chrysene-d12	30.80	240	7697938	40.00	ug/L	-0.01
43) Perylene-d12	34.70	264	4281370	40.00	ug/L	-0.01
System Monitoring Compounds						
27) TCMX	20.54	209	1673270	34.56	ug/L	0.00
Spiked Amount 40.000			Recovery = 86.40%			
Target Compounds						Qvalue
2) n-nitros-dimethyl amine	0.00	74	0	N.D.	d	
3) bis(2-Chloroethyl)ether	0.00	93	0	N.D.		
4) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
5) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
6) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
7) 2,2'oxybis(1-Chloropropane	0.00	45	0	N.D.		
8) N-nitroso-di-propylamine	0.00	70	0	N.D.		
9) Hexachloroethane	0.00	117	0	N.D.		
11) Nitrobenzene	0.00	77	0	N.D.		
12) Isophorone	0.00	82	0	N.D.		
13) bis(2-Chloroethoxy) methan	0.00	93	0	N.D.		
14) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
15) Napthalene	0.00	128	0	N.D.		
16) Hexachlorobutadiene	0.00	225	0	N.D.		
18) 2-Chloronaphthalene	0.00	162	0	N.D.		
19) Dimethylphthalate	0.00	163	0	N.D.		
20) 2,6-Dinitrotoluene	0.00	165	0	N.D.		
21) Acenapthylene	0.00	152	0	N.D.		
22) Acenapthalene	0.00	153	0	N.D.		
23) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
24) Diethylphthalate	0.00	149	0	N.D.		
25) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
26) Fluorene	0.00	166	0	N.D.		
28) Azobenzene	20.54	77	29921	N.D.		
30) Nnitrosodiphenylamine	20.54	169	31593	N.D.		
31) 4-Bromophenyl-phenylether	0.00	248	0	N.D.		
32) Hexachlorobenzene	0.00	284	0	N.D.		
33) Phenanthrene	0.00	178	0	N.D.		
34) Anthracene	0.00	178	0	N.D.		
35) Di-n-butylphthalate	0.00	149	0	N.D.		

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

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	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Fluoroanthene	0.00	202	0	N.D.	
38)	Pyrene	0.00	202	0	N.D.	
39)	Butylbenzylphthalate	0.00	149	0	N.D.	
40)	Benzo(a)anthracene	0.00	228	0	N.D.	
41)	Bis(2-ethylhexyl)phthalate	0.00	149	0	N.D.	
42)	Chrysene	0.00	228	0	N.D.	
44)	Di-n-octylphthalate	0.00	149	0	N.D.	
45)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
46)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
47)	Benzo(a)pyrene	0.00	252	0	N.D.	
48)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
49)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
50)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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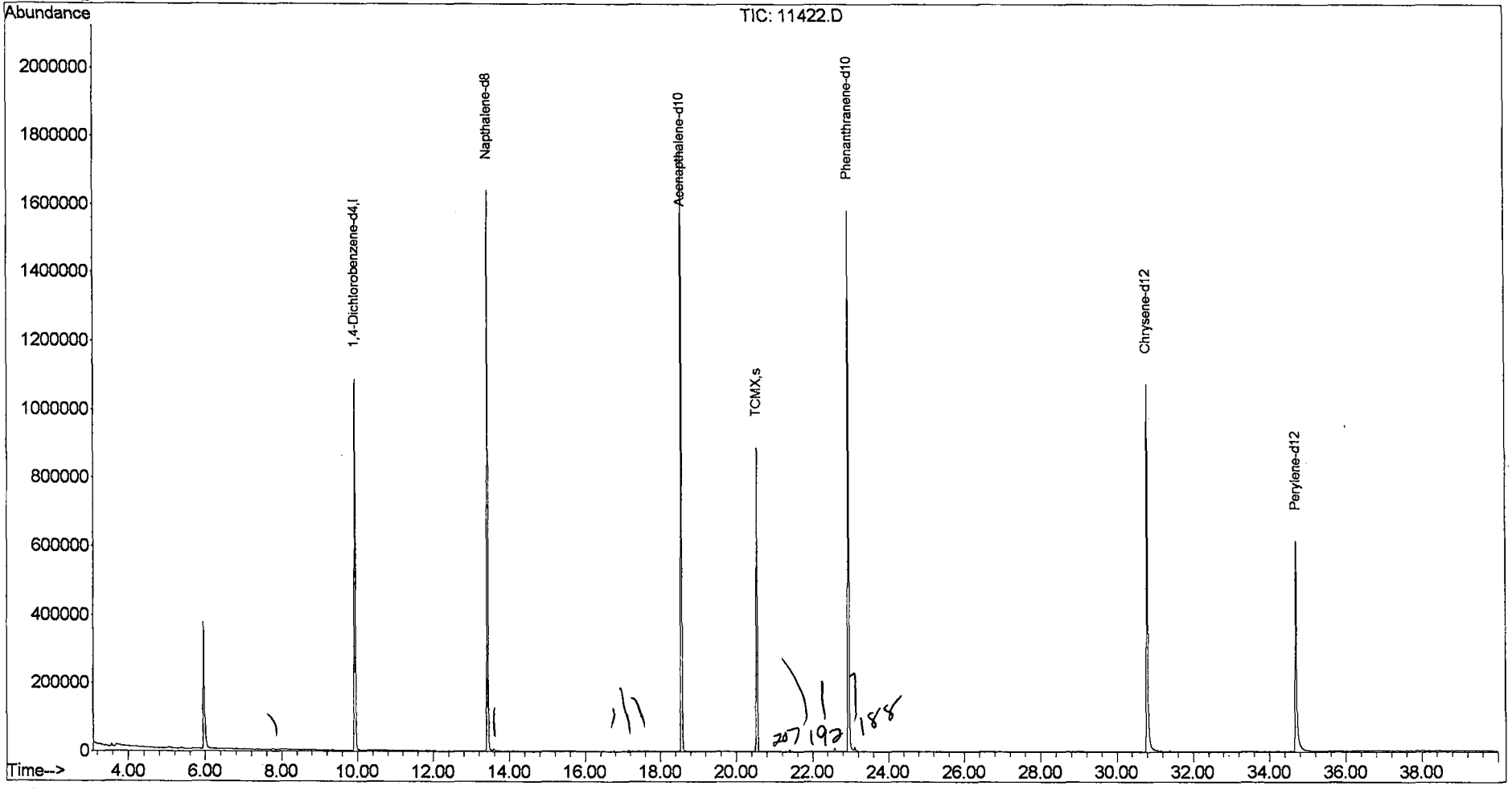


LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\052002\11422.D Vial: 12
Acq On : 20 May 2002 10:14 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan

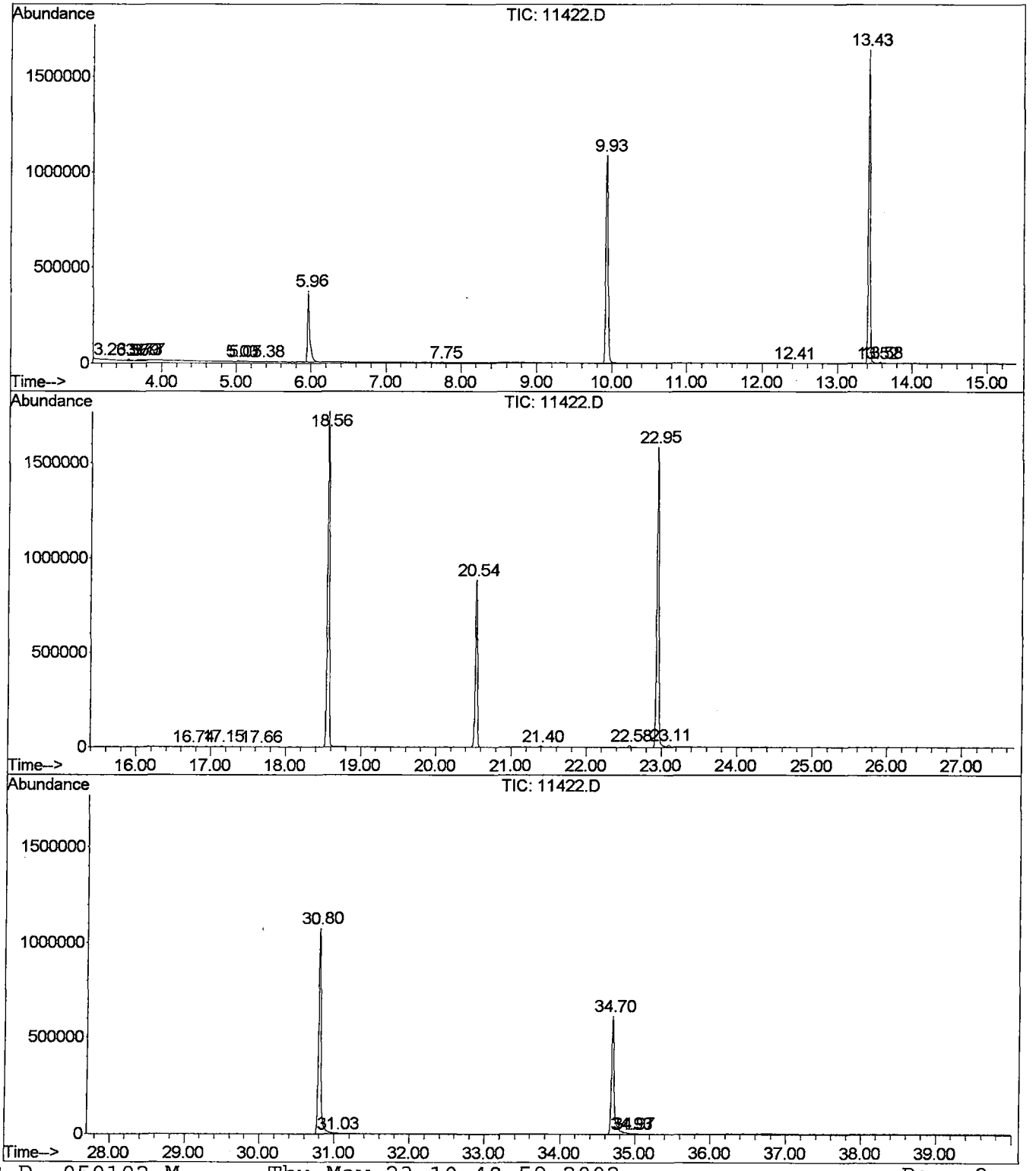
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.256	24	30	37	PV 6	3483	62274	0.19%	0.034%
2	3.567	78	83	91	PV 6	6333	134117	0.41%	0.074%
3	3.690	96	104	110	PV 7	5455	174508	0.53%	0.096%
4	3.731	110	111	114	VV 2	5706	85317	0.26%	0.047%
5	3.773	114	118	125	VV 7	4997	156617	0.48%	0.086%
6	5.030	323	332	337	PV 5	4154	100847	0.31%	0.055%
7	5.065	337	338	345	VV 5	2846	74647	0.23%	0.041%
8	5.382	378	392	401	PV 6	2755	120044	0.37%	0.066%
9	5.958	484	490	524	PV	362860	7593313	23.26%	4.173%
10	7.750	785	795	805	PV 6	1970	50207	0.15%	0.028%
11	9.930	1156	1166	1184	PV	1089251	22349866	68.46%	12.282%
12	12.410	1581	1588	1593	PV 2	1652	25913	0.08%	0.014%
13	13.426	1749	1761	1776	PV	1626025	29915378	91.63%	16.439%
14	13.520	1776	1777	1783	VV 3	2785	47465	0.15%	0.026%
15	13.579	1783	1787	1798	VV 2	5043	98615	0.30%	0.054%
16	16.740	2321	2325	2330	PV 3	1924	28242	0.09%	0.016%
17	17.151	2385	2395	2404	VV 2	4211	72827	0.22%	0.040%
18	17.662	2477	2482	2490	PV 4	1928	30292	0.09%	0.017%
19	18.567	2622	2636	2657	PV	1752706	32646867	100.00%	17.940%
20	20.541	2959	2972	2986	PV	891424	16595418	50.83%	9.120%
21	21.399	3111	3118	3124	PV 3	5468	93639	0.29%	0.051%
22	22.574	3311	3318	3327	VV 3	9119	180103	0.55%	0.099%
23	22.950	3372	3382	3402	PV 2	1559356	31509767	96.52%	17.316%
24	23.103	3402	3408	3426	VV 2	11691	324724	0.99%	0.178%
25	30.800	4703	4718	4755	PV 2	1065782	23728588	72.68%	13.040%
26	31.029	4755	4757	4763	VV 5	1645	25014	0.08%	0.014%
27	34.696	5369	5381	5418	PV 2	606185	15613687	47.83%	8.580%
28	34.931	5418	5421	5425	VV 4	3691	77191	0.24%	0.042%
29	34.966	5425	5427	5439	VV 7	1998	58731	0.18%	0.032%

Sum of corrected areas: 181974218

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\052002\11422.D
Operator : Mclean
Acquired : 20 May 2002 10:14 pm using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: 5/16 eh
Misc Info :
Vial Number: 12
Quant File :050102.RES (Chemstation Integrator)



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\052002\11422.D
Acq On : 20 May 2002 10:14 pm
Sample : 5/16 eh
Misc :
MS Integration Params: LSCINT.e

Vial: 12
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

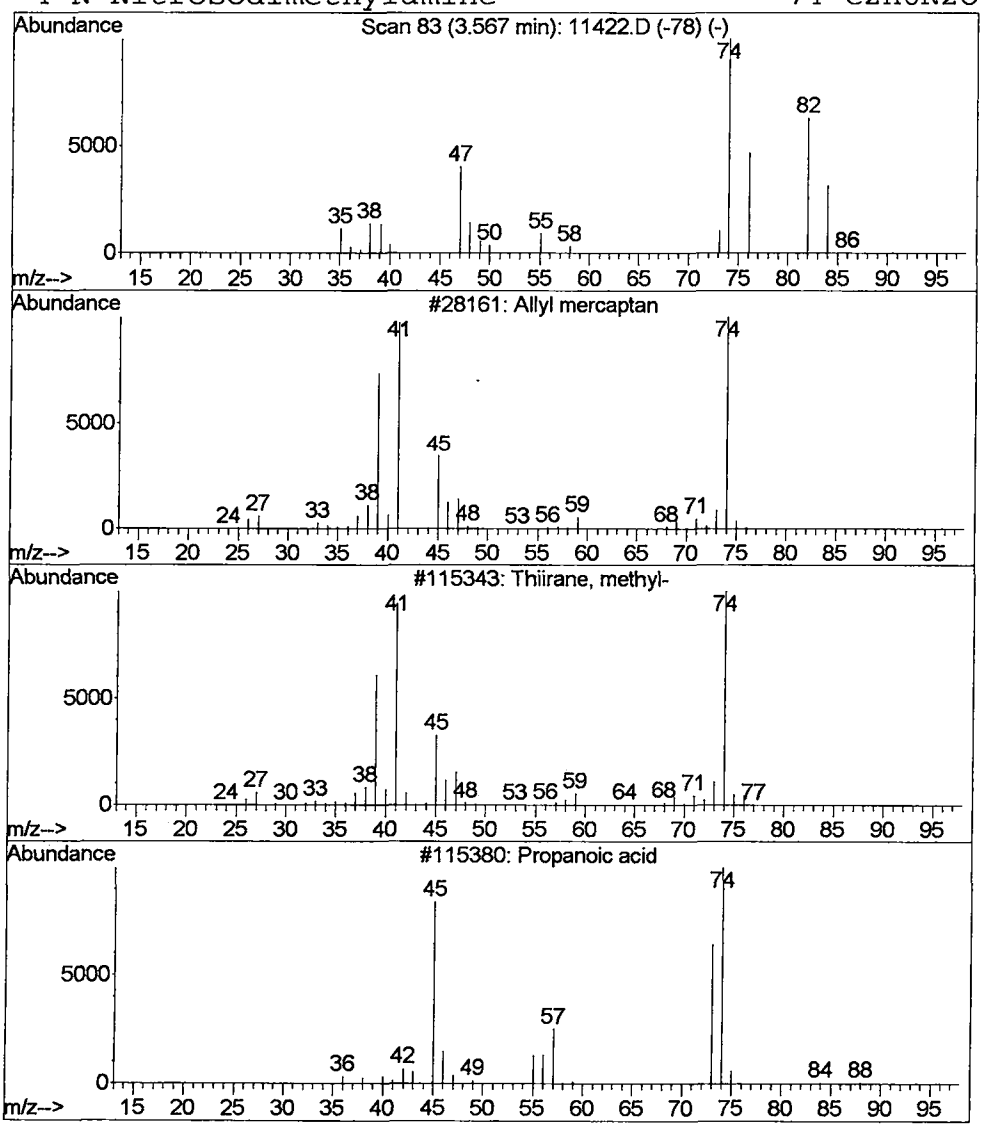
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

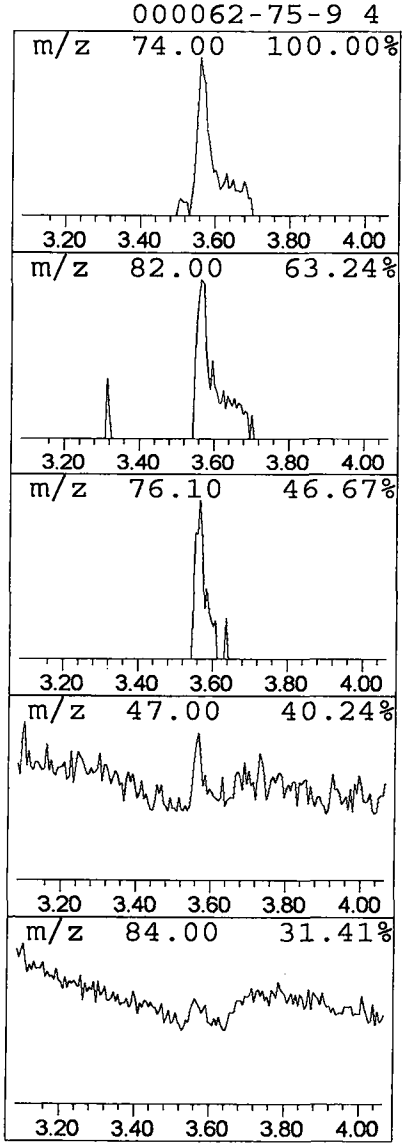
****

Peak Number 1 Allyl mercaptan Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.57	0.24 ug/L	134117	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Allyl mercaptan	74	C3H6S	000870-23-5	7
2	Thiirane, methyl-	74	C3H6S	001072-43-1	4
3	Propanoic acid	74	C3H6O2	000079-09-4	4
4	N-Nitrosodimethylamine	74	C2H6N2O	000062-75-9	4





Library Search Compound Report

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Acq On : 20 May 2002 10:14 pm
Sample : 5/16 eh
Misc :
MS Integration Params: LSCINT.e

Vial: 12
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

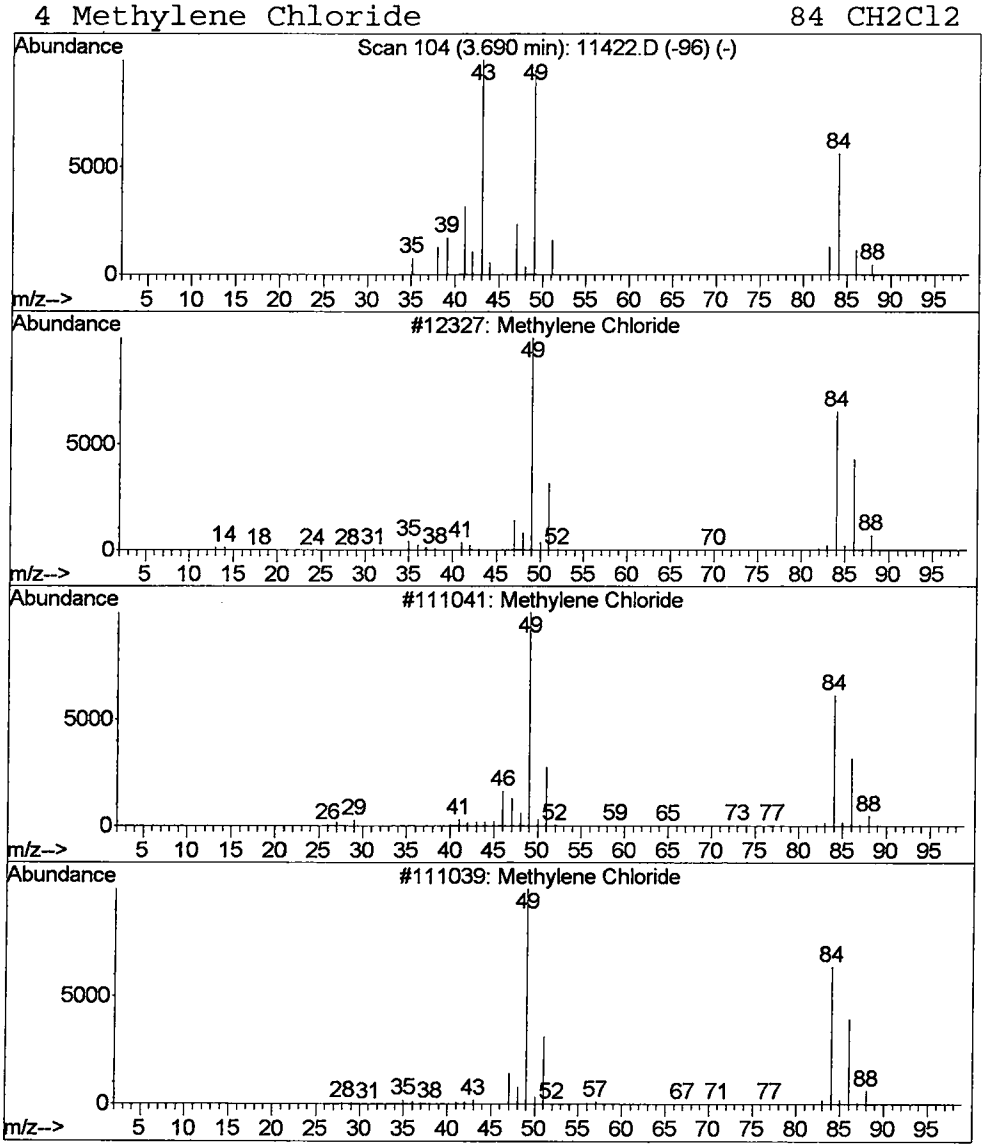
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

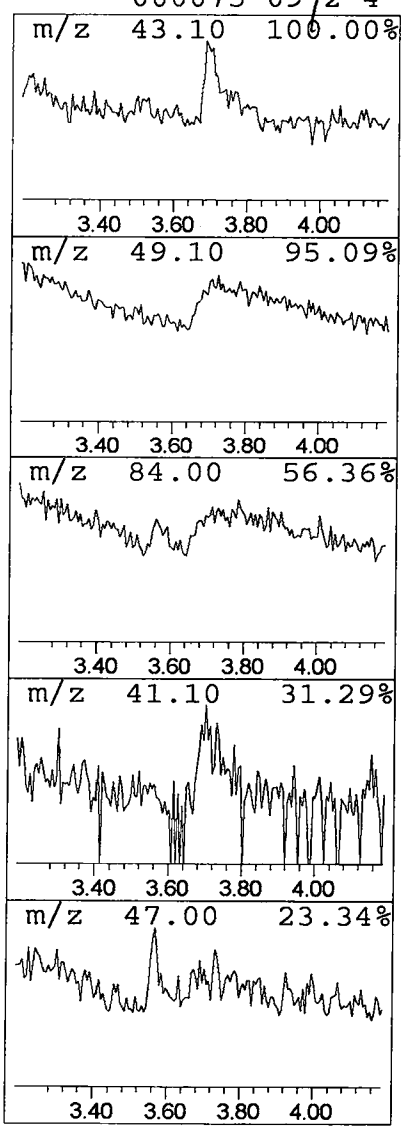
****

Peak Number 2 Methylene Chloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.69	0.31 ug/L	174508	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylene Chloride	84	CH2Cl2	000075-09-2	72
2	Methylene Chloride	84	CH2Cl2	000075-09-2	9
3	Methylene Chloride	84	CH2Cl2	000075-09-2	9
4	Methylene Chloride	84	CH2Cl2	000075-09-2	4





Library Search Compound Report

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Acq On : 20 May 2002 10:14 pm
Sample : 5/16 eh
Misc :
MS Integration Params: LSCINT.e

Vial: 12
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

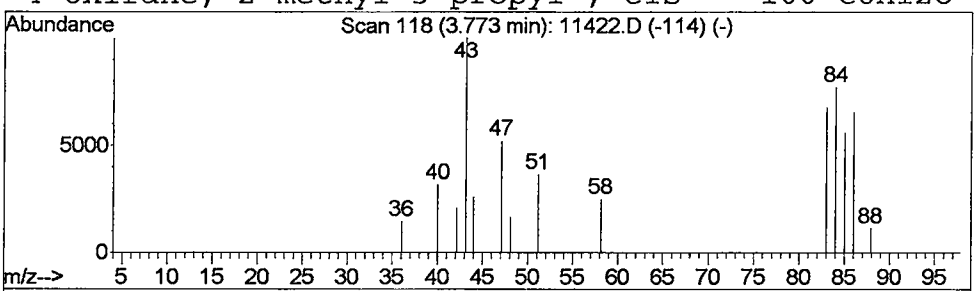
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

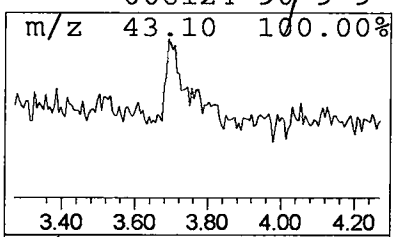
****

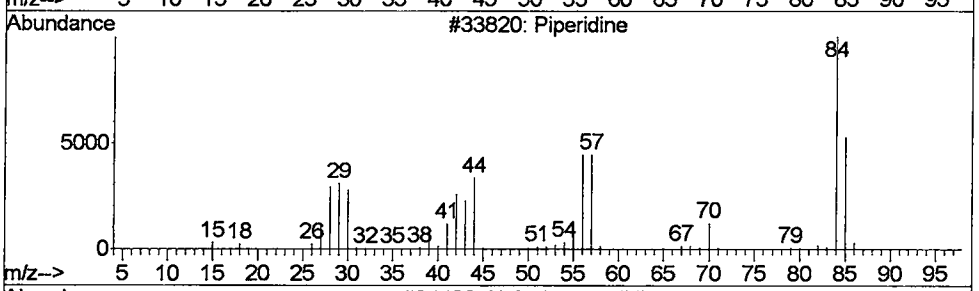
Peak Number 3 Piperidine — Concentration Rank 4

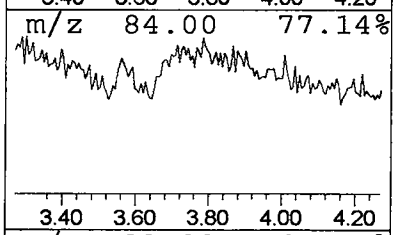
R.T.	EstConc	Area	Relative to ISTD	R.T.
3.77	0.28 ug/L	156617	1,4-Dichlorobenzene-d4	9.93

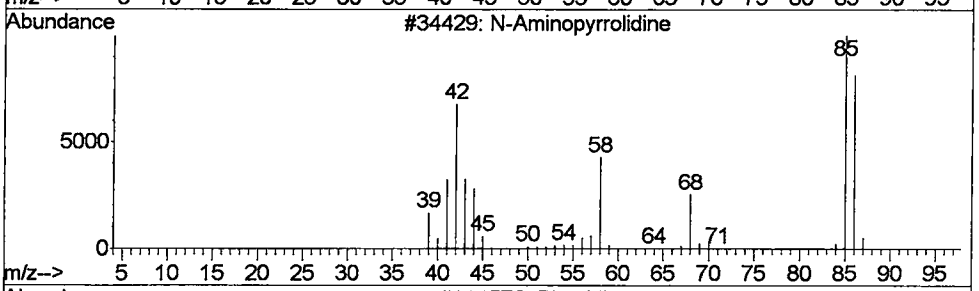
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Piperidine	85	C5H11N	000110-89-4	27
2	N-Aminopyrrolidine	86	C4H10N2	016596-41-1	10
3	Piperidine	85	C5H11N	000110-89-4	9
4	Oxirane, 2-methyl-3-propyl-, cis-	100	C6H12O	006124-90-9	9

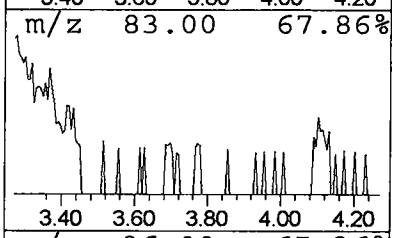


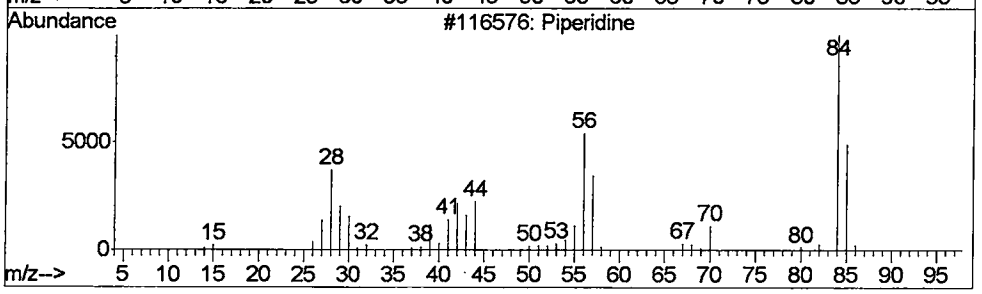


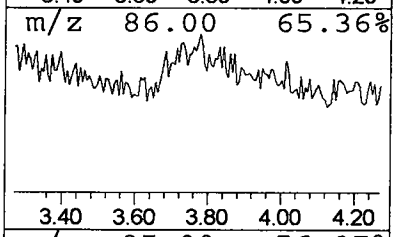


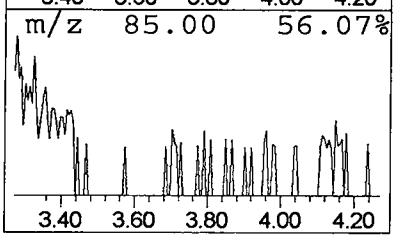












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Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

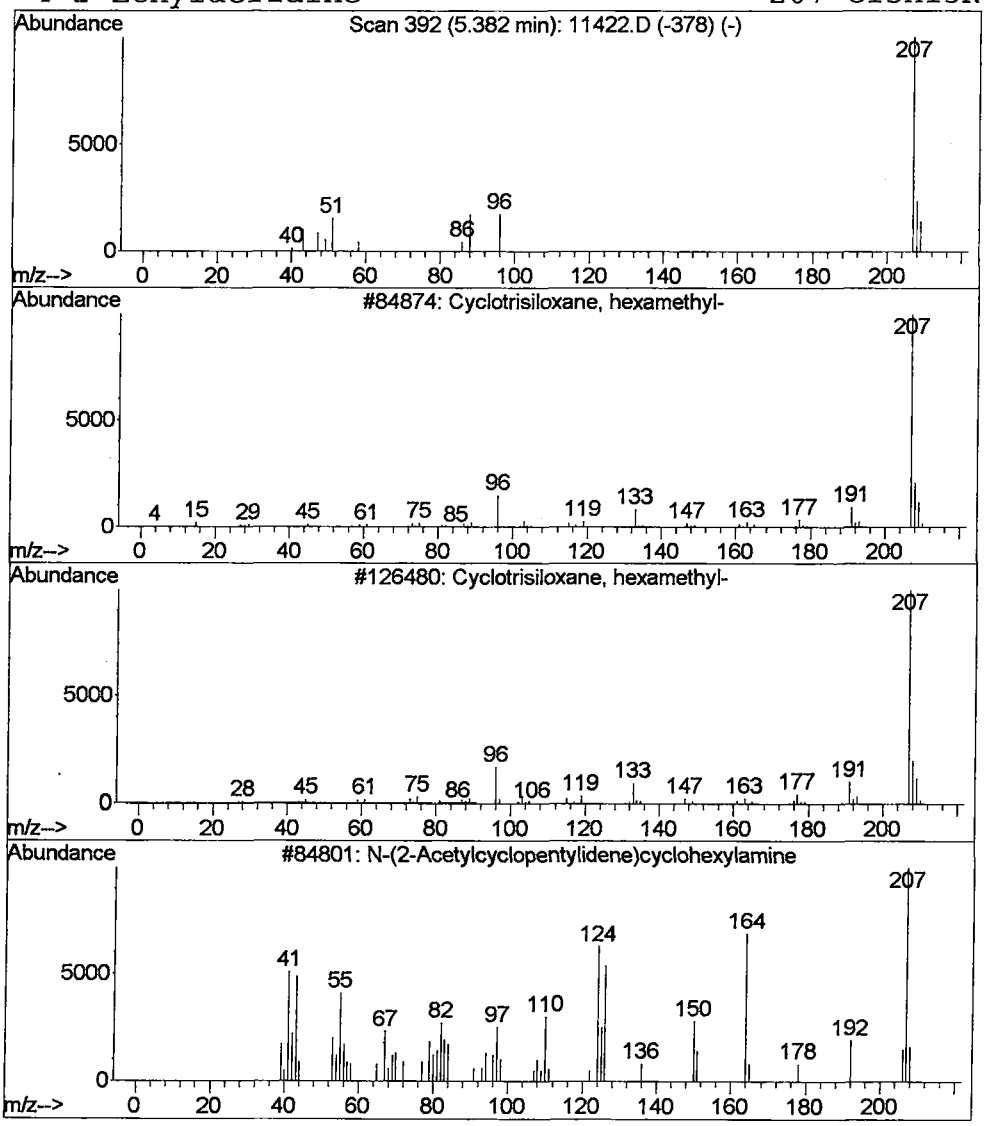
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

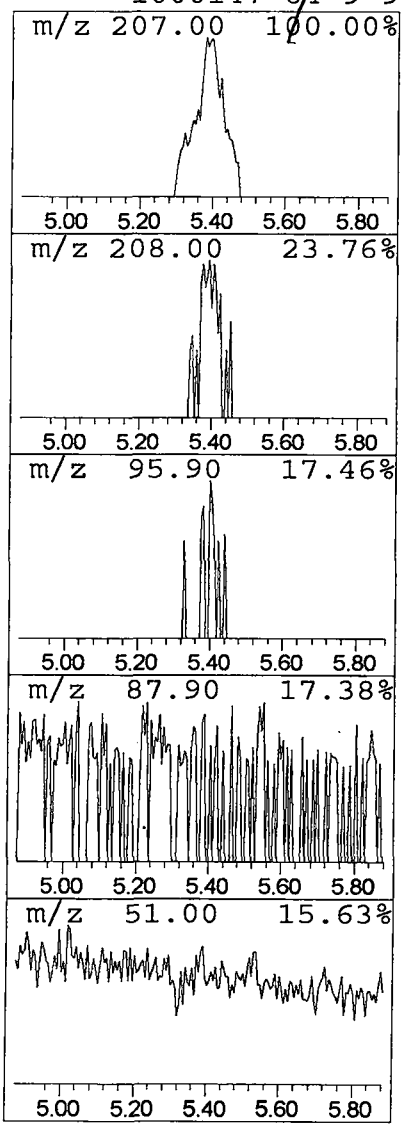
****

Peak Number 4 Cyclotrisiloxane, hexamethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.38	0.21 ug/L	120044	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	39
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	39
3	N-(2-Acetylcyclopentylidene)cycl...	207	C13H21NO	1000100-48-5	9
4	2-Ethylacridine	207	C15H13N	1000147-64-9	9





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Misc :
MS Integration Params: LSCINT.e

Vial: 12
Operator: Mclean
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Multiplr: 1.00

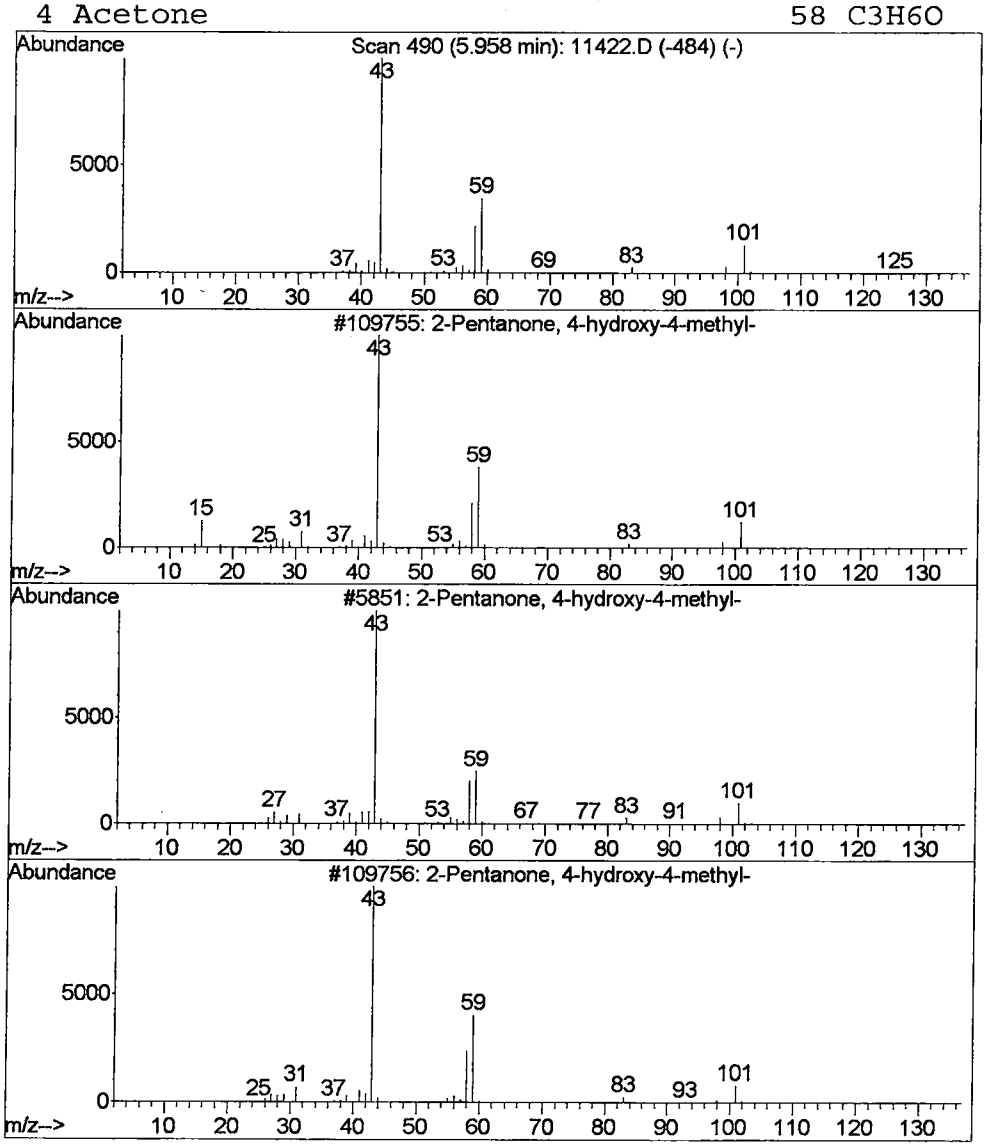
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

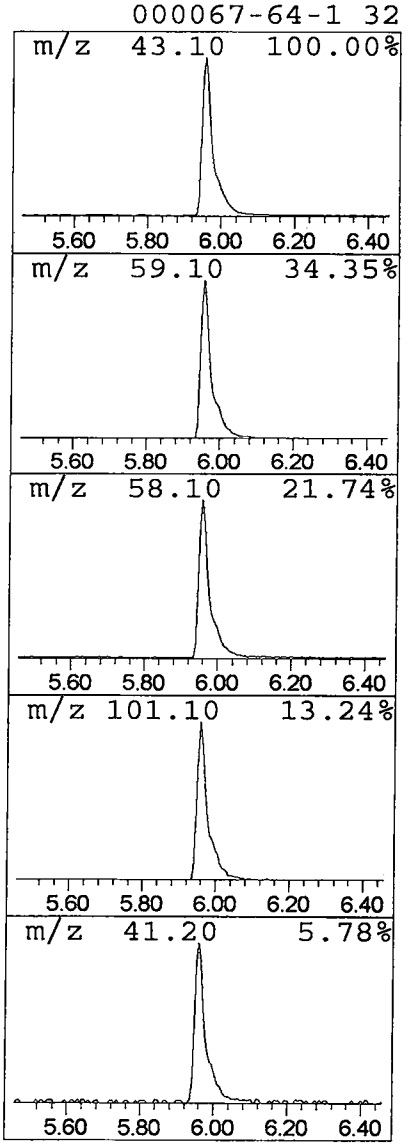
****

Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.96	13.59 ug/L	7593310	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	86
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
4	Acetone	58	C3H6O	000067-64-1	32





Library Search Compound Report

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Acq On : 20 May 2002 10:14 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

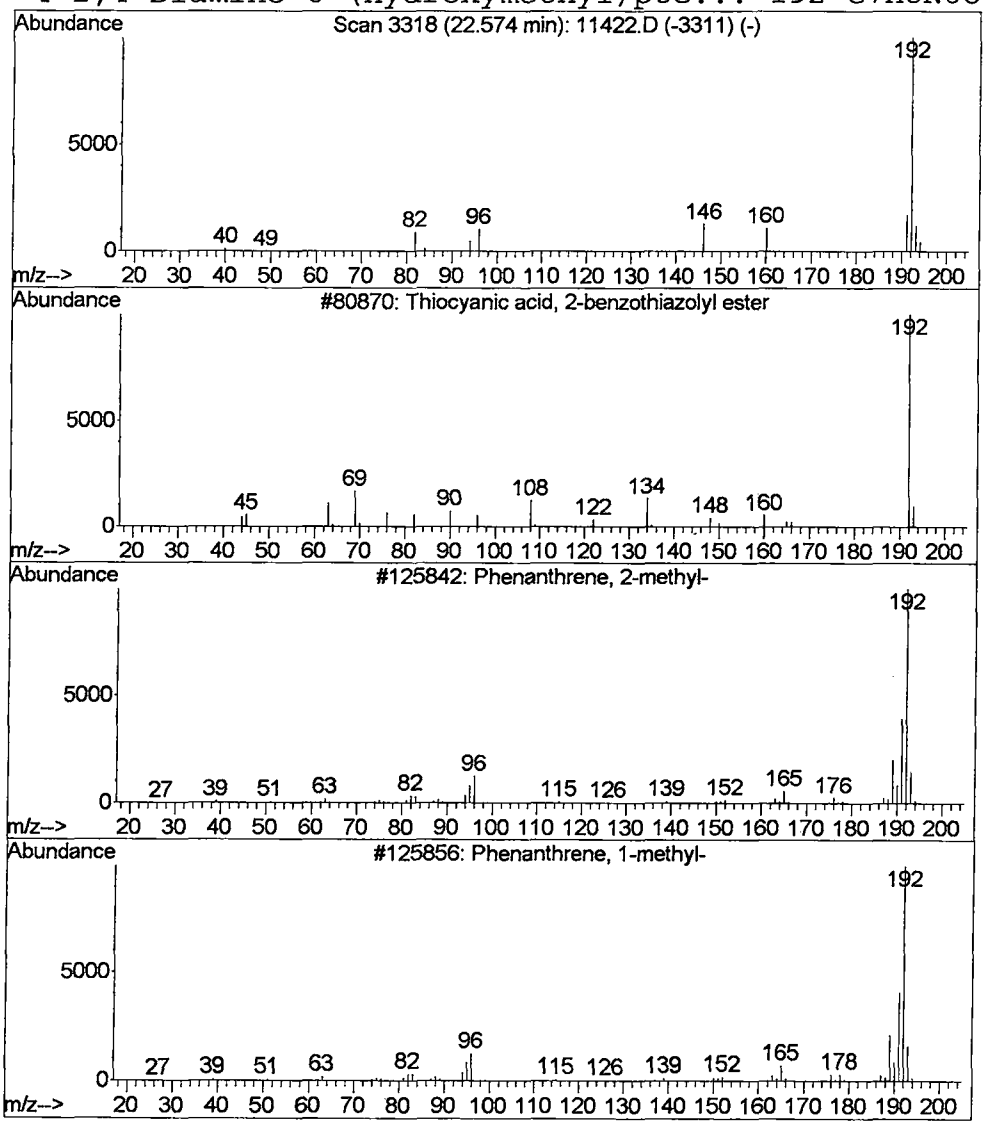
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

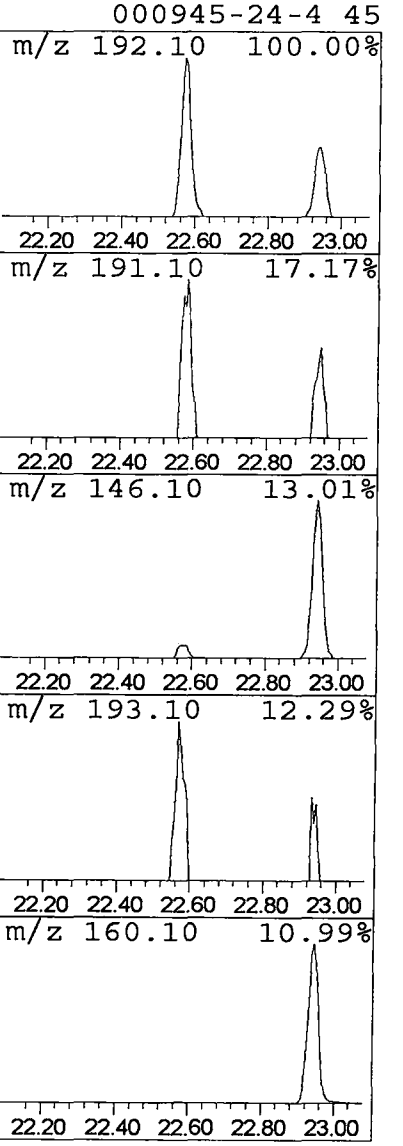
****

Peak Number 6 Thiocyanic acid, 2-benzothi... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.58	0.23 ug/L	180103	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiocyanic acid, 2-benzothiazoly...	192	C8H4N2S2	006011-99-0	59
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	45
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	45
4	2,4-Diamino-6-(hydroxymethyl)pte...	192	C7H8N6O	000945-24-4	45





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\052002\11422.D Vial: 12
Acq On : 20 May 2002 10:14 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

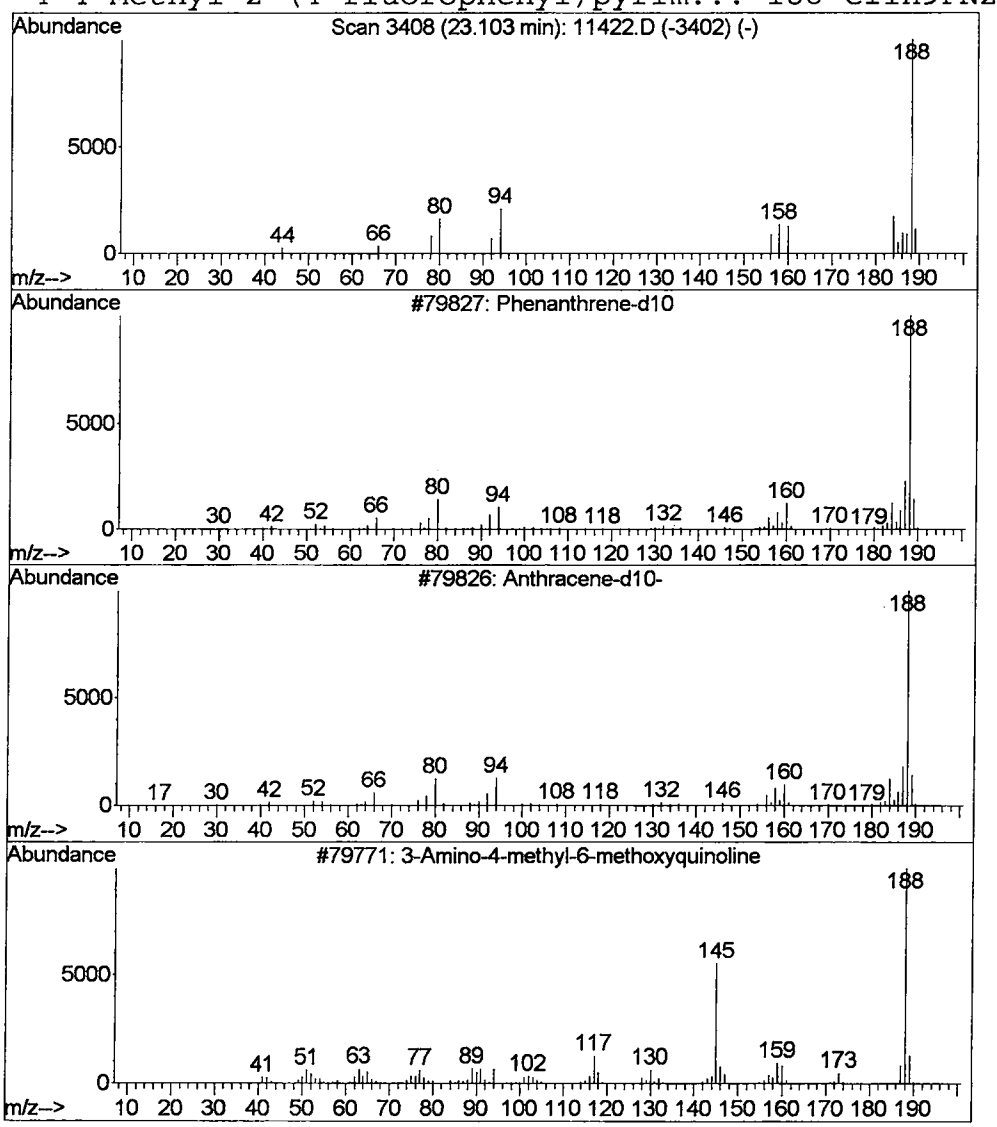
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

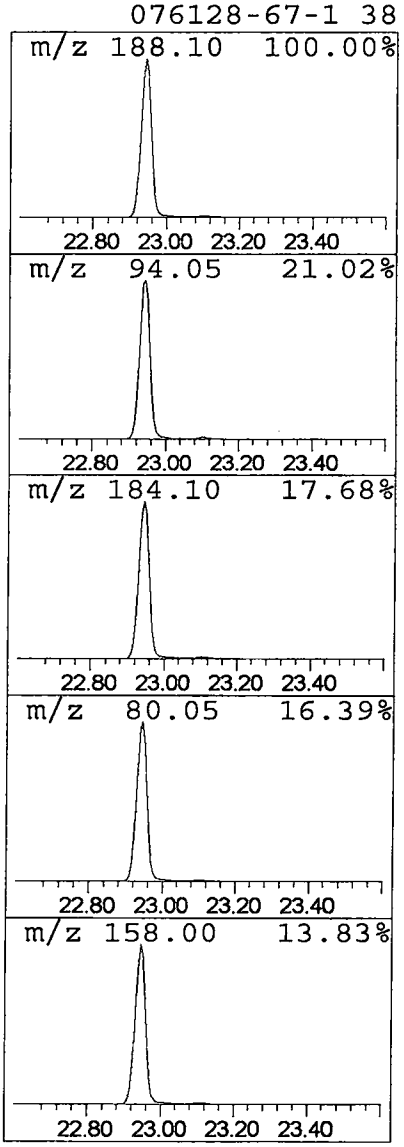
****

Peak Number 7 Phenanthrene-d10 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.11	0.41 ug/L	324724	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene-d10	188	C14D10	001517-22-2	81
2	Anthracene-d10-	188	C14D10	001719-06-8	81
3	3-Amino-4-methyl-6-methoxyquinoline	188	C11H12N2O	1000213-71-3	40
4	4-Methyl-2-(4-fluorophenyl)pyrim...	188	C11H9FN2	076128-67-1	38





Tentatively Identified Compound (LSC) summary

Operator ID: Mclean Date Acquired: 20 May 2002 10:14 pm
Data File: C:\MSDCHEM\1\DATA\052002\11422.D
Name: 5/16 eh
Misc:
Method: C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title: 508 Modified GC/MS scan
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Allyl mercaptan	3.57	0.2	ug/L	134117	1	9.93	22349900	40.0
Methylene Chloride	3.69	0.3	ug/L	174508	1	9.93	22349900	40.0
Piperidine	3.77	0.3	ug/L	156617	1	9.93	22349900	40.0
Cyclotrisiloxane,...	5.38	0.2	ug/L	120044	1	9.93	22349900	40.0
2-Pentanone, 4-hy...	5.96	13.6	ug/L	7593310	1	9.93	22349900	40.0
Thiocyanic acid, ...	22.58	0.2	ug/L	180103	4	22.95	31509800	40.0
Phenanthrene-d10	23.11	0.4	ug/L	324724	4	22.95	31509800	40.0