User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 01/17/2002 Time: 14:58:05

Sample: AE00557
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 1/17/02 14:57 Ended: 1/17/02 14:57 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		100		5.0

CAS# 88-74-8 91/100 .20ng/L

1/18/02 Approved

00667/13350

FB= AE 00473 clean but oil contam.

Comments for Sample AE00557 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 01-17-2002 Time: 15:50:01

The GCMS scan, from 35 to 550 amu, reveals the presence of 9H-Carbazole at an estimated level of 0.20 ug/L and with a fit of 91 out of 100. The recoveries for 8 of the 43 compounds in the LCS Standard were above their acceptance ranges.

Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D Vial: 1
Acq On : 15 Jan 2002 1:32 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 15 15:51:51 2002 Quant Results File: SCAN508.RES

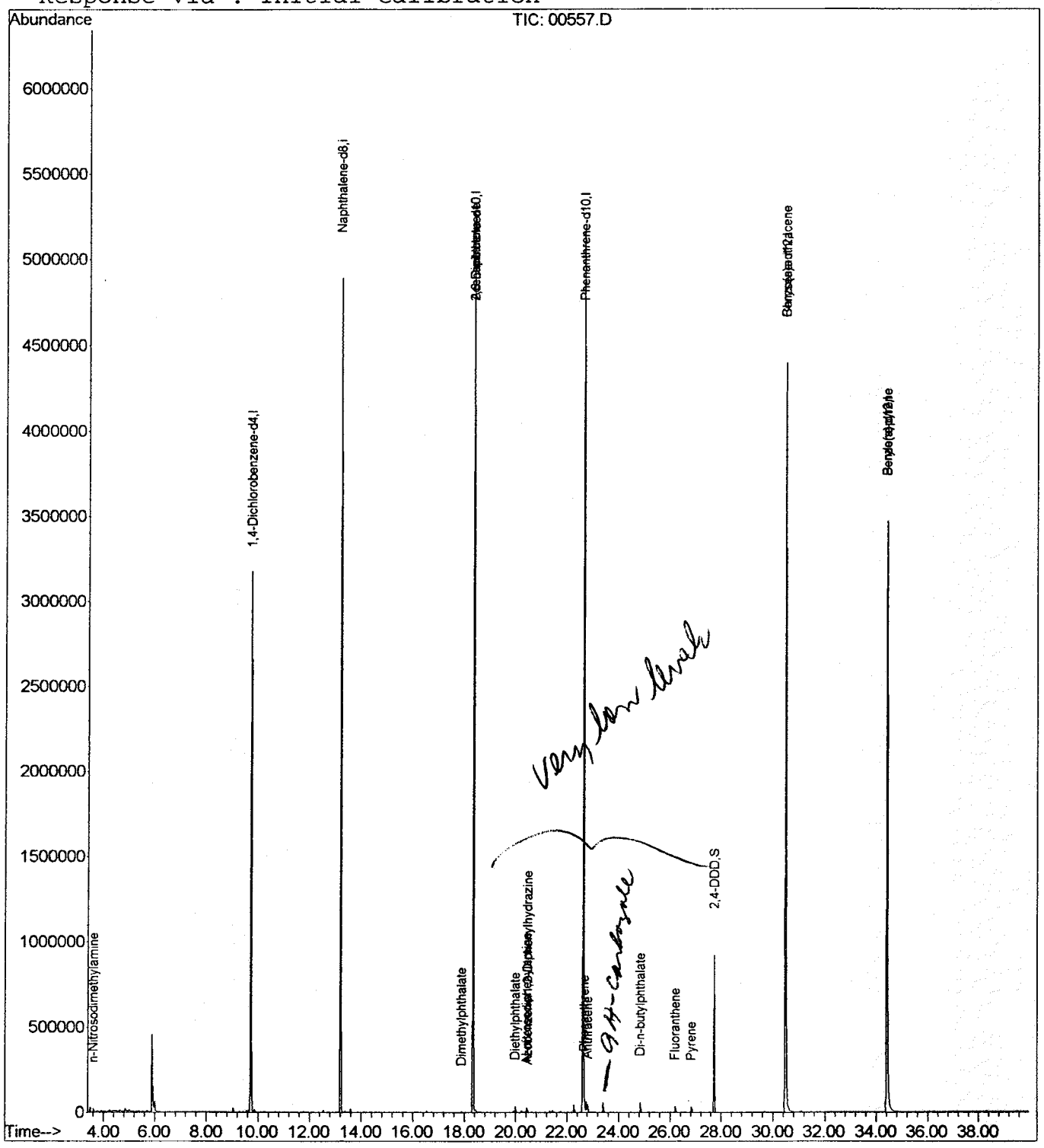
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Last Update : Fri Jan 11 13:20:07 2002
Response via : Initial Calibration
DataAcq Meth : SCAN508

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.72	152	1122224	20.00	ug/L		0.00
10) Naphthalene-d8	13.19	136	4786835	20.00	ug/L		-0.02
17) Acenaphthene-d10	18.34	164	2529284	20.00	ug/L		-0.01
29) Phenanthrene-d10	22.65	188	4332886	20.00	ug/L		-0.02
38) Chrysene-d12	30.49	240	3771535	20.00	ug/L		-0.02
44) Perylene-d12	34.42	264	2664190	20.00	ug/L		0.00
System Monitoring Compounds							
37) 2,4-DDD	27.73	235	341912	4.99	ug/L		0.00
Spiked Amount 5.000			Recovery =	99.80%			
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	3.60	74	8252	0.17	ug/L	#	13
3) bis(2-Chloroethyl)ether	9.05	93	25155	Below Cal		#	12
20) Dimethylphthalate	17.88	163	6265	0.04	ug/L		92
21) 2,6-Dinitrotoluene	18.34	165	324147	9.95	ug/L	#	17
25) Diethylphthalate	20.00	149	28785	0.18	ug/L		95
28) Azobenzene/1,2-Diphenylhyd	20.46	77	14233	0.07	ug/L		86
30) N-nitrosodiphenylamine	20.43	169	17922	0.16	ug/L		87
33) Phenanthrene	22.69	178	46845	0.20	ug/L		99
34) Anthracene	22.82	178	38865	0.17	ug/L		96
35) Di-n-butylphthalate	24.85	149	68447	0.24	ug/L		99
36) Fluoranthene	26.21	202	37533	0.16	ug/L		93
39) Pyrene	26.84	202	36706	0.12	ug/L		94
41) Benzo(a)anthracene	30.49	228	15465	0.07	ug/L	#	77
43) Chrysene	30.49	228	21688	0.10	ug/L	#	74
48) Benzo(a)pyrene	34.42	252	11713	0.07	ug/L	#	1

(#) = qualifier out of range (m) = manual integration
00557.D SCAN508.M Tue Jan 15 15:51:52 2002 Page 1

Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D Vial: 1
Acq On : 15 Jan 2002 1:32 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 15 15:51 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



Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D Vial: 1
Acq On : 15 Jan 2002 1:32 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 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

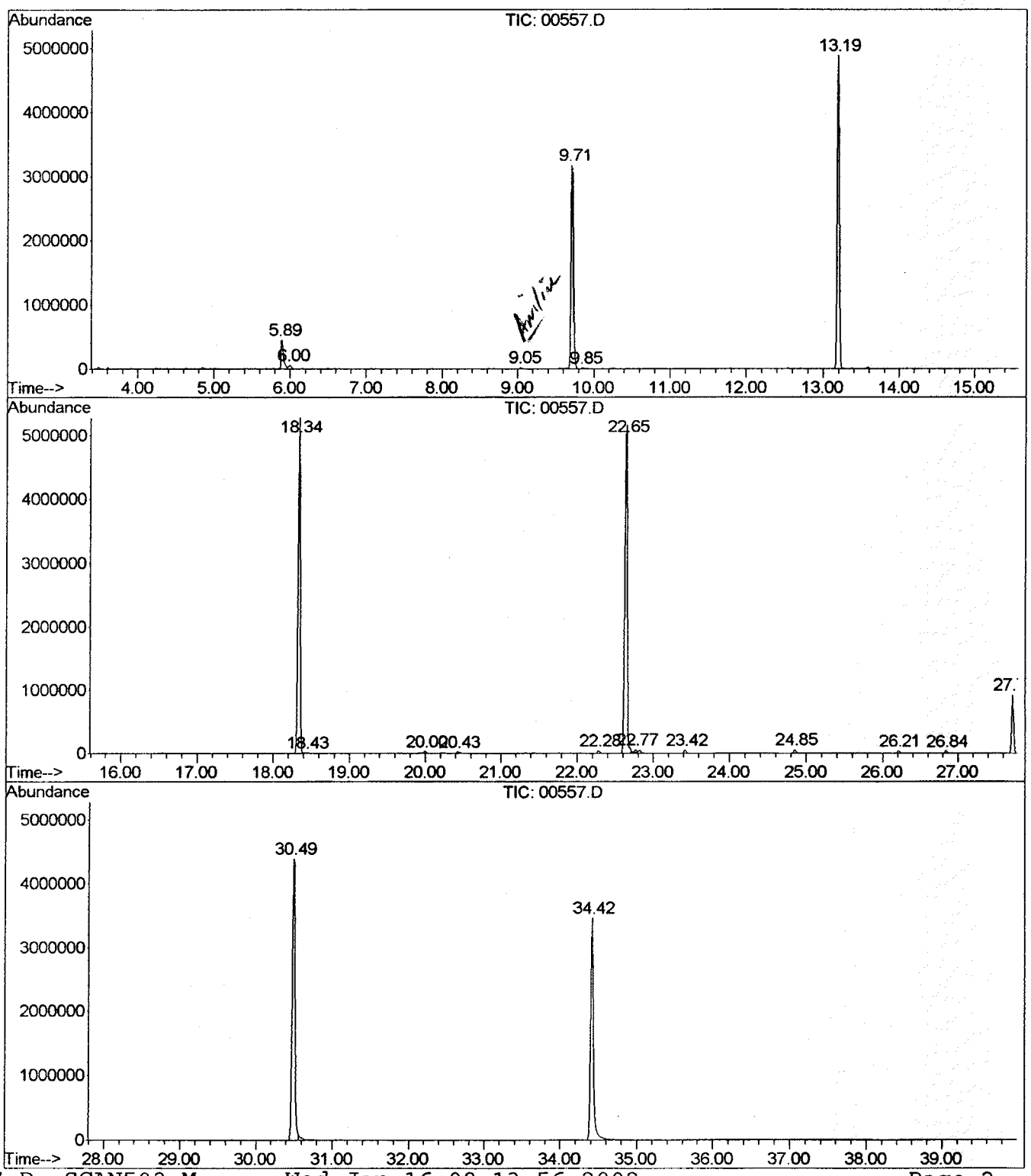
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.885	217	220	227	rVV	453602	1017307	8.79%	1.661%
2	6.000	227	230	241	rVB	60302	155424	1.34%	0.254%
3	9.048	493	497	505	rVB	24959	53131	0.46%	0.087%
4	9.710	551	555	561	rVV	3173148	6385980	55.17%	10.425%
5	9.847	561	567	577	rVB	16680	56906	0.49%	0.093%
6	13.192	855	860	865	rBV	4890029	9223832	79.69%	15.058%
7	18.341	1305	1311	1315	rBV	5285474	10335235	89.29%	16.872%
8	18.433	1315	1319	1329	rVB3	16467	59356	0.51%	0.097%
9	19.997	1451	1456	1469	rVB	37693	87071	0.75%	0.142%
10	20.431	1491	1494	1501	rVB2	26902	73470	0.63%	0.120%
11	22.280	1651	1656	1661	rBV	46072	83471	0.72%	0.136%
12	22.645	1681	1688	1693	rBV	5168993	11574597	100.00%	18.896%
13	22.771	1695	1699	1701	rVB	48601	78028	0.67%	0.127%
14	23.422	1751	1756	1761	rBV	57483	114236	0.99%	0.186%
15	24.849	1877	1881	1889	rVB	60981	110048	0.95%	0.180%
16	26.208	1997	2000	2007	rBV	37901	79416	0.69%	0.130%
17	26.835	2051	2055	2061	rVB	34181	73408	0.63%	0.120%
18	27.726	2129	2133	2139	rBV	922420	1654704	14.30%	2.701%
19	30.489	2369	2375	2381	rBV	4394067	11022183	95.23%	17.994%
20	34.416	2713	2719	2749	rBV	3463331	9017817	77.91%	14.722%

Sum of corrected areas: 61255620

Data Report Integrated Chromatogram

File : C:\MSDCHEM\1\5973N\02JAN15\00557.D
Operator :
Acquired : 15 Jan 2002 1:32 pm using AcqMethod SCAN508
Instrument : Instrumen
Sample Name: 508 scan
Misc Info : January 15, 2002
Vial Number: 1
Quant File :SCAN508.RES (RTE Integrator)



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Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D          Vial: 1
Acq On    : 15 Jan 2002    1:32 pm                   Operator:
Sample    : 508 scan                                 Inst    : Instrumen
Misc      : January 15, 2002                         Multiplr: 1.00
MS Integration Params: LSCINT.P

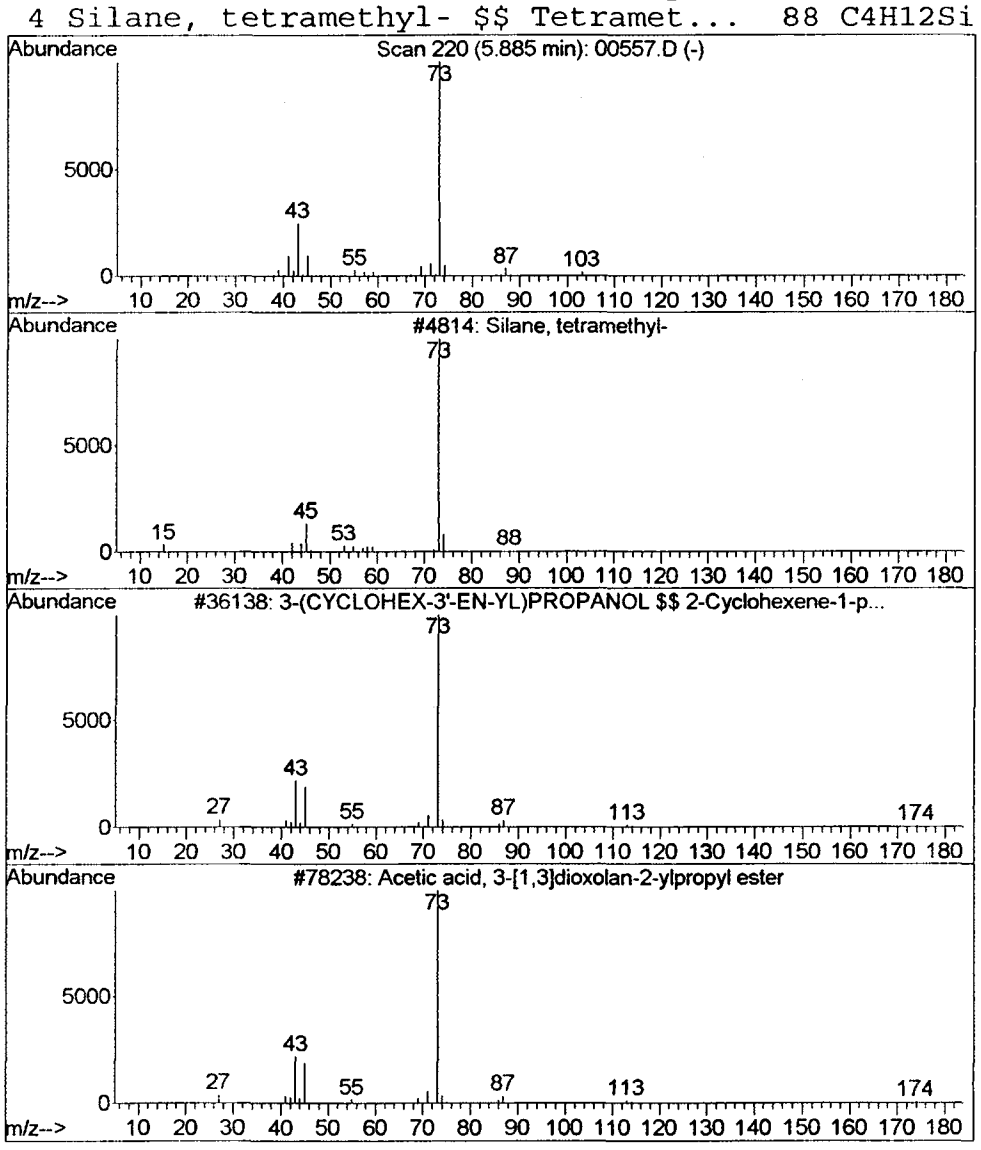
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title        : 508 scan method
Library      : C:\DATABASE\WILEY7N.L
```

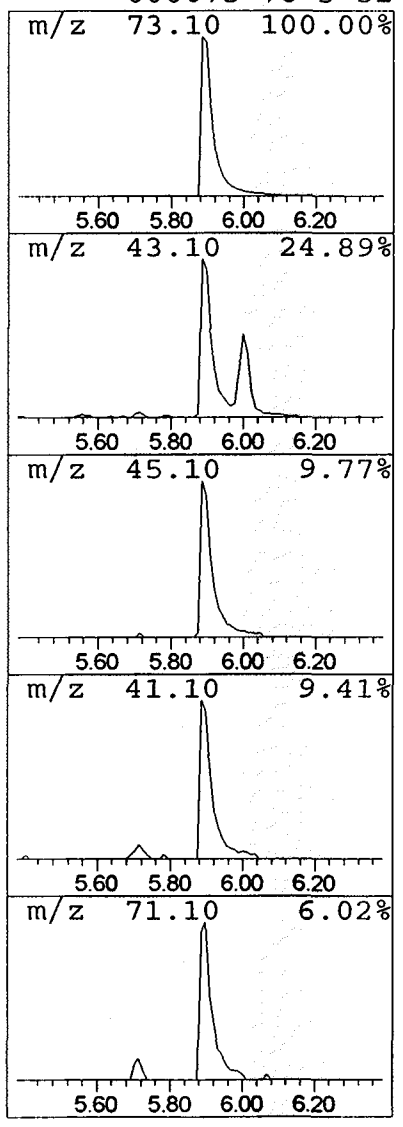
****

Peak Number 1 Silane, tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.89	3.19 ug/L	1017310	1,4-Dichlorobenzene-d4	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silane, tetramethyl-	88	C4H12Si	000075-76-3	38
2	3-(CYCLOHEX-3'-EN-YL)PROPANOL $$...	174	C8H14O4	015745-87-6	33
3	Acetic acid, 3-[1,3]dioxolan-2-y...	174	C8H14O4	000000-00-0	33
4	Silane, tetramethyl- $$ Tetramet...	88	C4H12Si	000075-76-3	32





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Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D          Vial: 1
Acq On    : 15 Jan 2002    1:32 pm                   Operator:
Sample    : 508 scan                                 Inst    : Instrumen
Misc      : January 15, 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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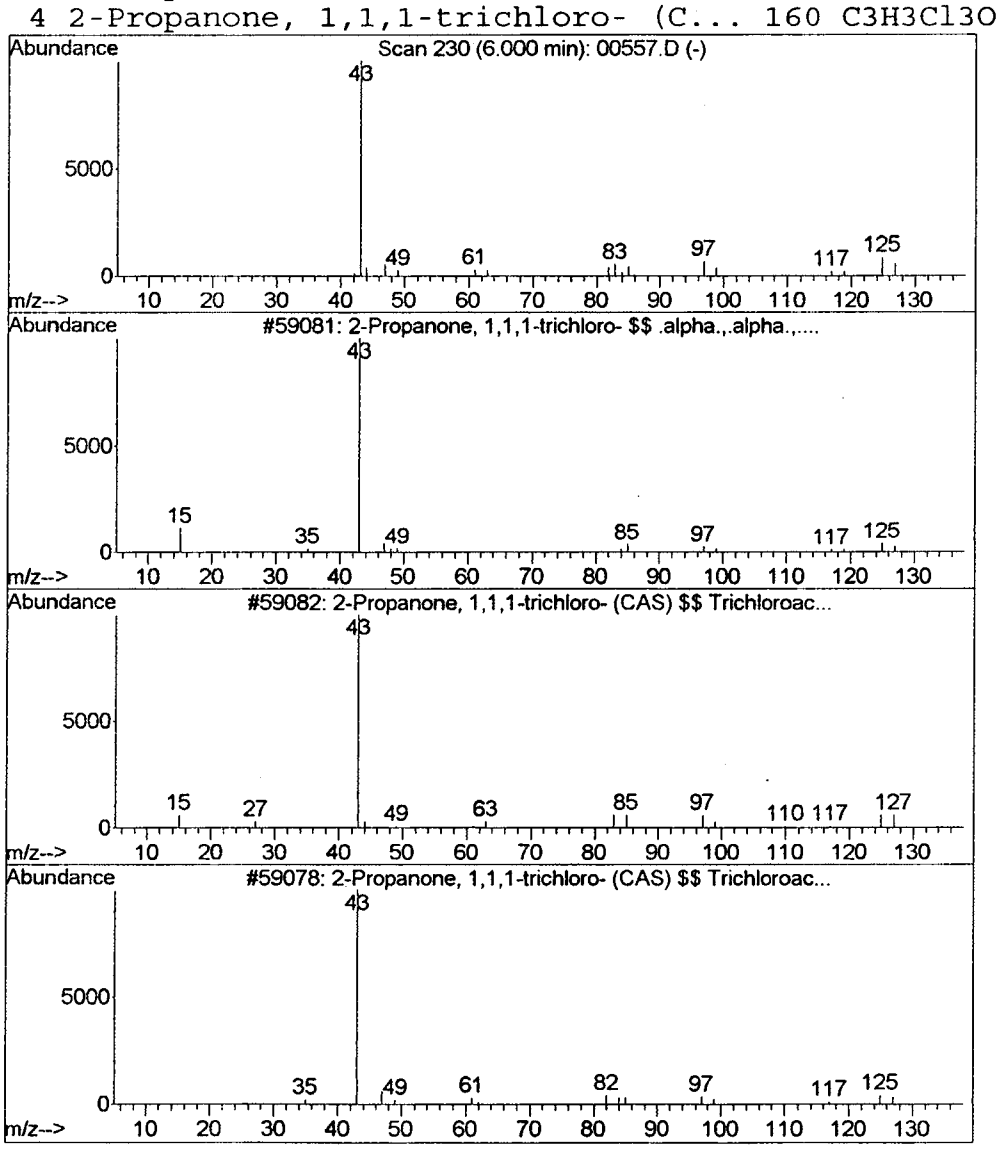
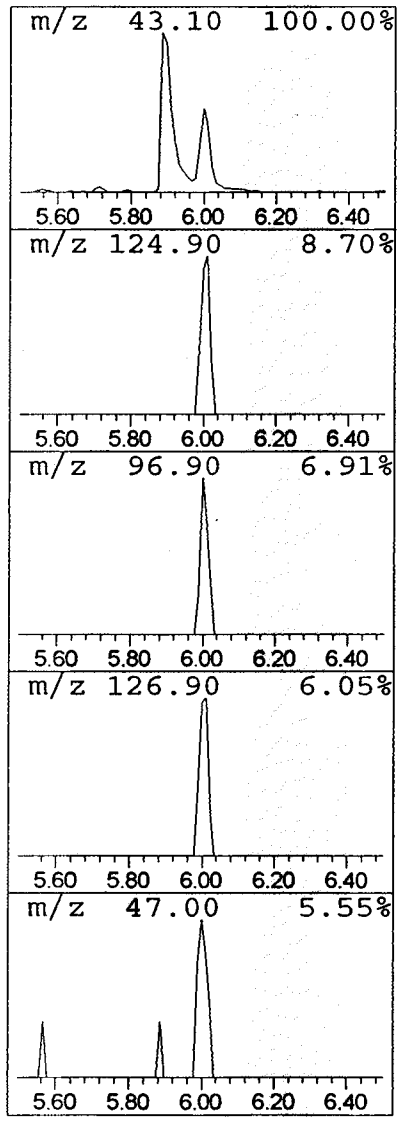
Peak Number 2 2-Propanone, 1,1,1-trichlor... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.00	0.49 ug/L	155424	1,4-Dichlorobenzene-d4	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1,1,1-trichloro- $$...	160	C3H3Cl3O	000918-00-3	64
2	2-Propanone, 1,1,1-trichloro- (C...	160	C3H3Cl3O	000918-00-3	59
3	2-Propanone, 1,1,1-trichloro- (C...	160	C3H3Cl3O	000918-00-3	53
4	2-Propanone, 1,1,1-trichloro- (C...	160	C3H3Cl3O	000918-00-3	42





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Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D          Vial: 1
Acq On    : 15 Jan 2002    1:32 pm                   Operator:
Sample    : 508 scan                                 Inst    : Instrumen
Misc      : January 15, 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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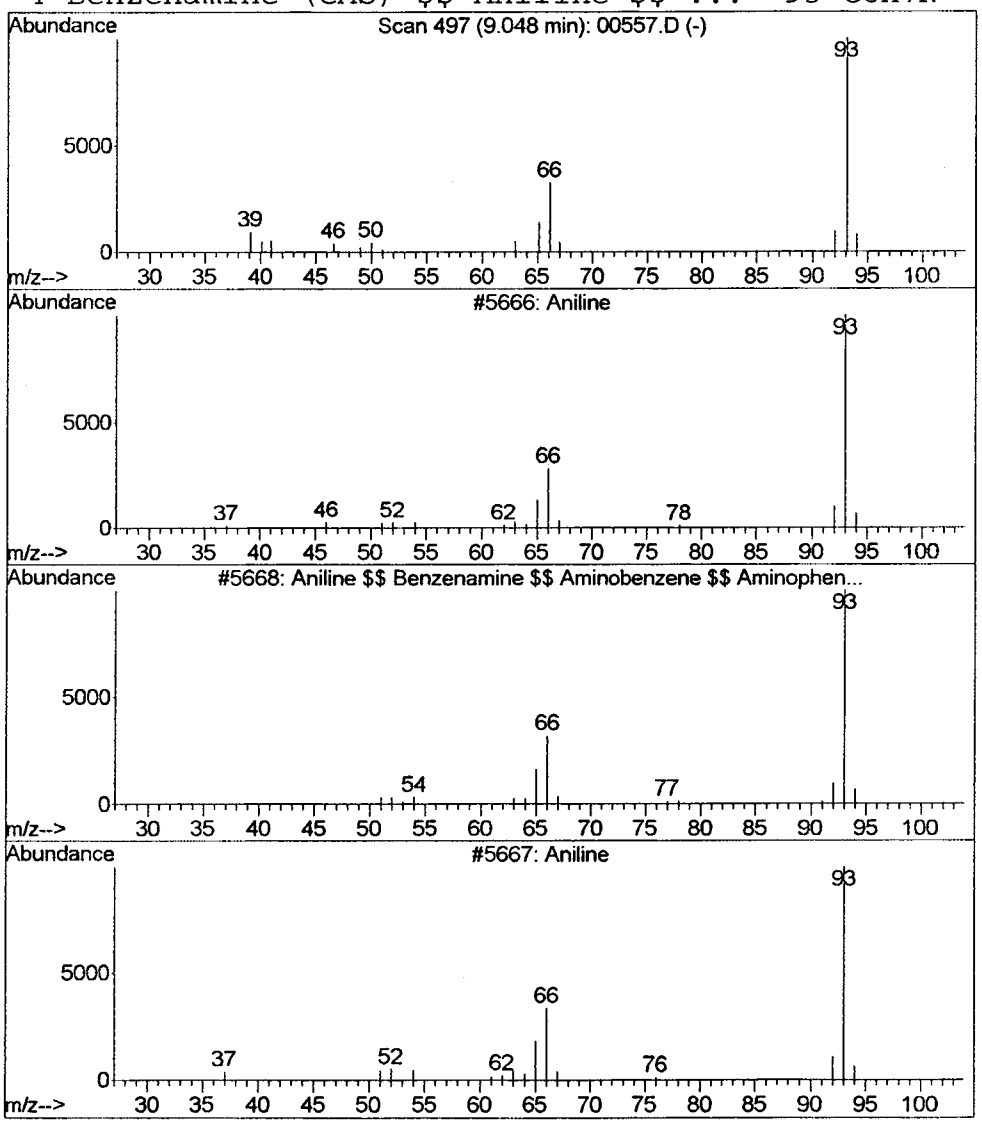
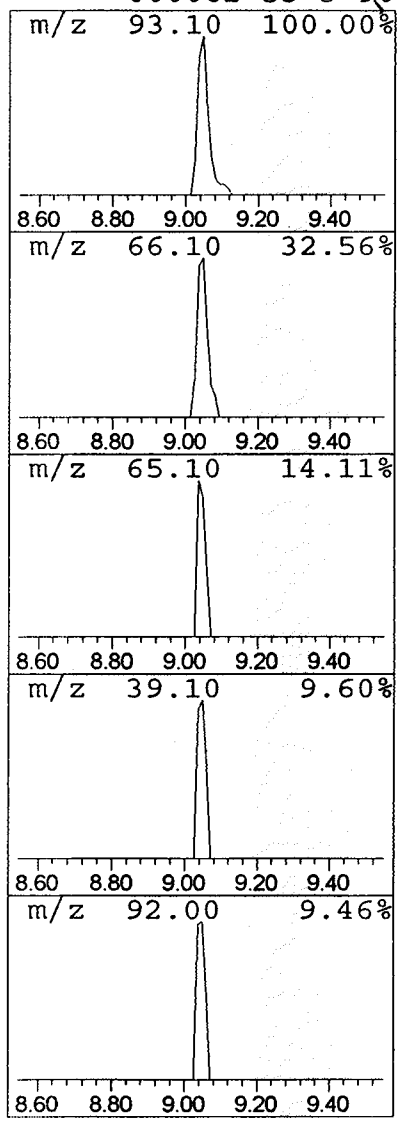
Peak Number 3 Aniline — Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.05	0.17 ug/L	53131	1,4-Dichlorobenzene-d4	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Aniline	93	C6H7N	000062-53-3	90
2	Aniline $$ Benzenamine $$ Aminob...	93	C6H7N	000062-53-3	90
3	Aniline	93	C6H7N	000062-53-3	90
4	Benzenamine (CAS) $$ Aniline $$ ...	93	C6H7N	000062-53-3	90





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Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D          Vial: 1
Acq On    : 15 Jan 2002    1:32 pm                    Operator:
Sample    : 508 scan                                  Inst    : Instrumen
Misc      : January 15, 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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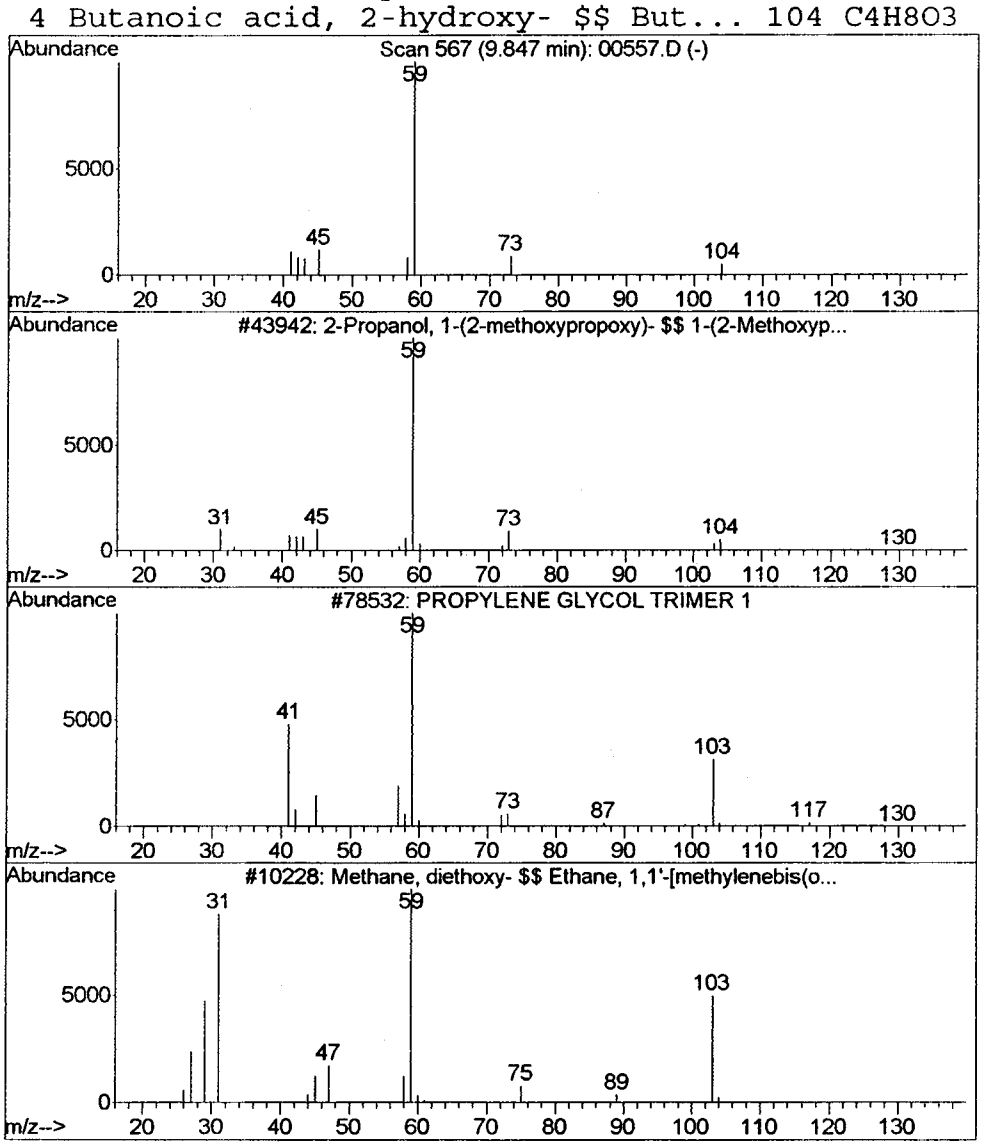
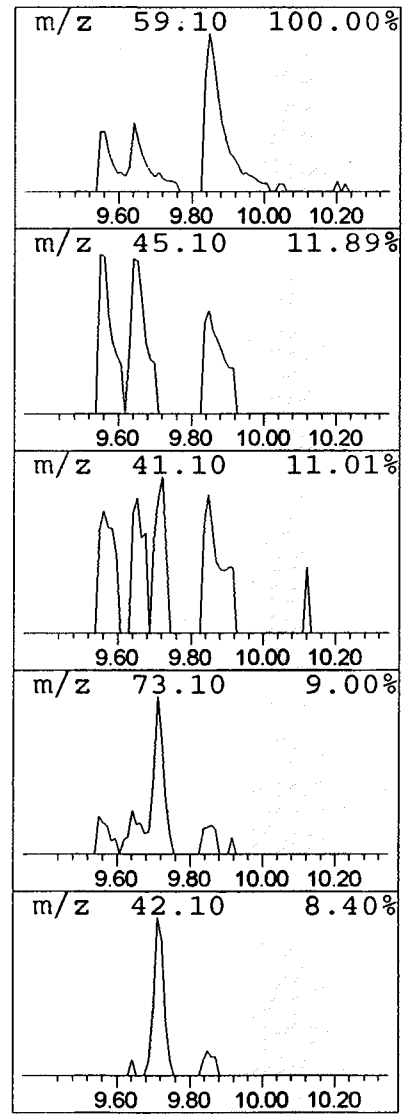
Peak Number 4 2-Propanol, 1-(2-methoxypro... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	0.18 ug/L	56906	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	83
2	PROPYLENE GLYCOL TRIMER 1	174	C9H18O3	000000-00-0	9
3	Methane, diethoxy- $$ Ethane, 1,...	104	C5H12O2	000462-95-3	7
4	Butanoic acid, 2-hydroxy- $$ But...	104	C4H8O3	000565-70-8	5





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Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D          Vial: 1
Acq On    : 15 Jan 2002    1:32 pm                    Operator:
Sample    : 508 scan                                  Inst    : Instrumen
Misc      : January 15, 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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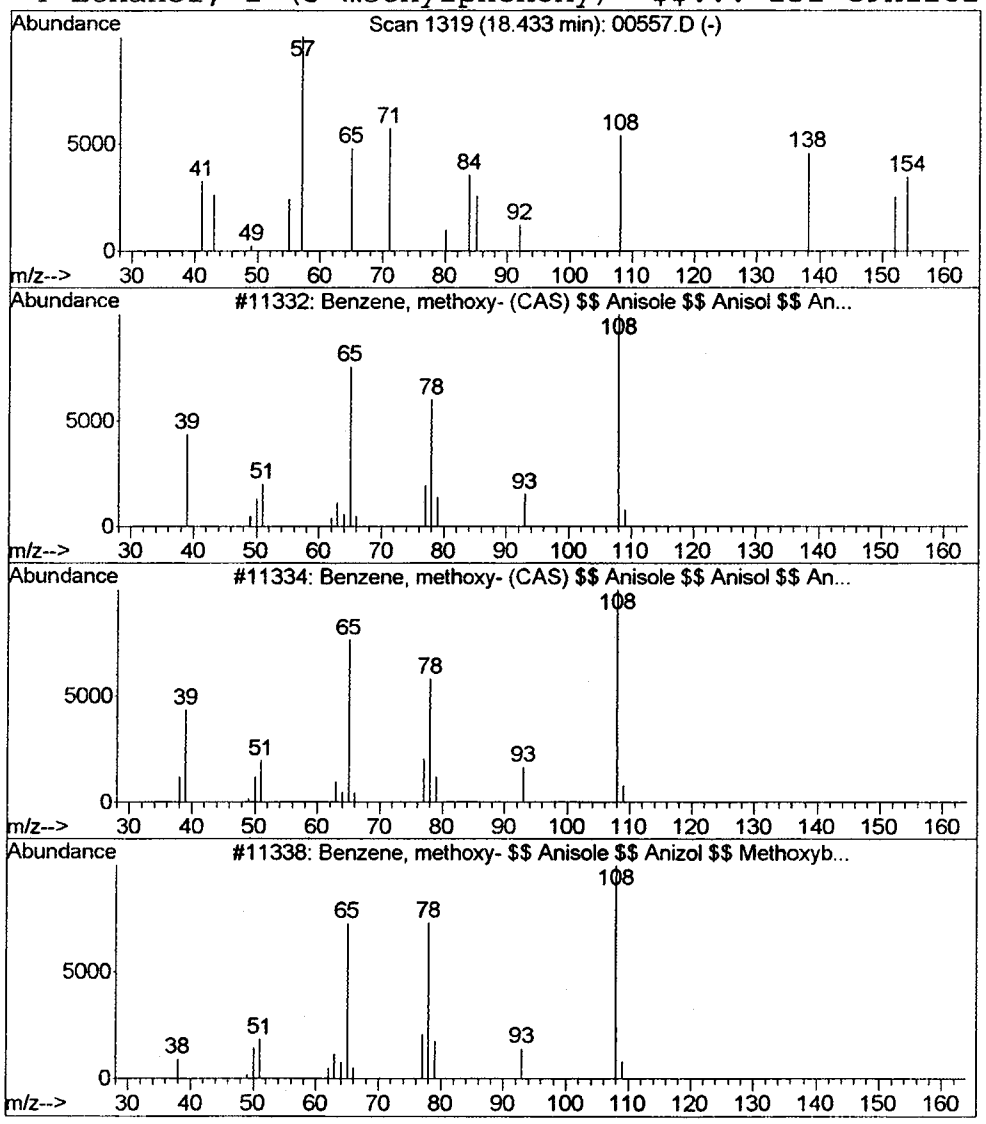
****

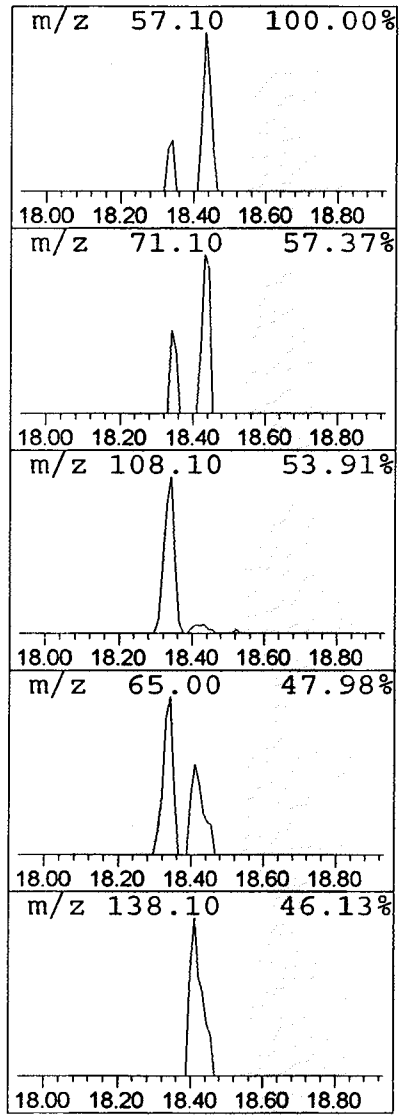
Peak Number 5 Benzene, methoxy- (CAS) $$ ... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	0.11 ug/L	59356	Acenaphthene-d10	18.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, methoxy- (CAS) $$ Aniso...	108	C7H8O	000100-66-3	9
2	Benzene, methoxy- (CAS) $$ Aniso...	108	C7H8O	000100-66-3	7
3	Benzene, methoxy- $$ Anisole $$ ...	108	C7H8O	000100-66-3	5
4	Ethanol, 2-(3-methylphenoxy)- $$...	152	C9H12O2	013605-19-1	5

NO GOOD MATCH





Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D Vial: 1
Acq On : 15 Jan 2002 1:32 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

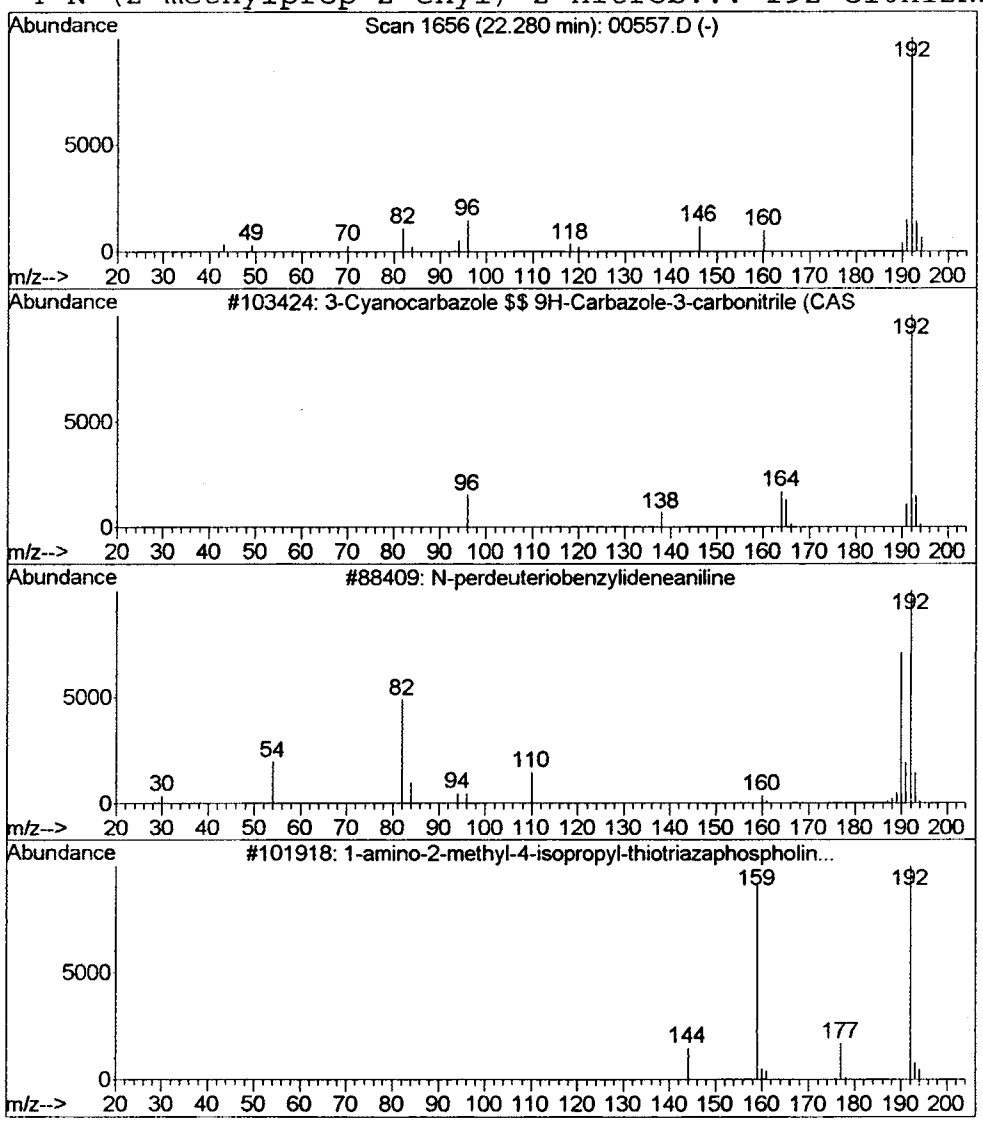
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

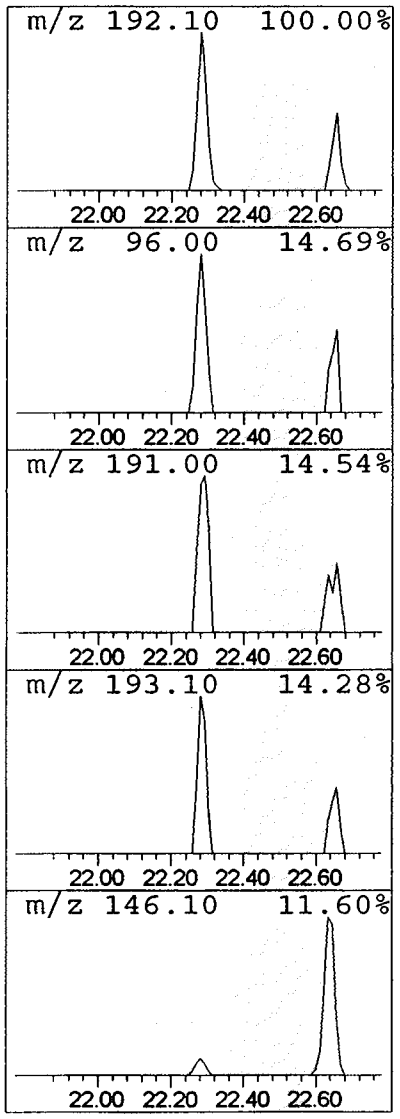
****

Peak Number 6 3-Cyanocarbazole $$ 9H-Carb... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.28	0.14 ug/L	83471	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Cyanocarbazole $$ 9H-Carbazole...	192	C13H8N2	057102-93-9	59
2	N-perdeuteriobenzylideneaniline	192	C13D11N	000538-51-2	52
3	1-amino-2-methyl-4-isopropyl-thi...	192	C5H13N4PS	107264-54-0	50
4	N-(2-methylprop-2-enyl)-2-nitrob...	192	C10H12N2O2	000000-00-0	49





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Data File : C:\MSDCHEM\1\5973N\02JAN15\00557.D          Vial: 1
Acq On    : 15 Jan 2002    1:32 pm                   Operator:
Sample    : 508 scan                                 Inst    : Instrumen
Misc      : January 15, 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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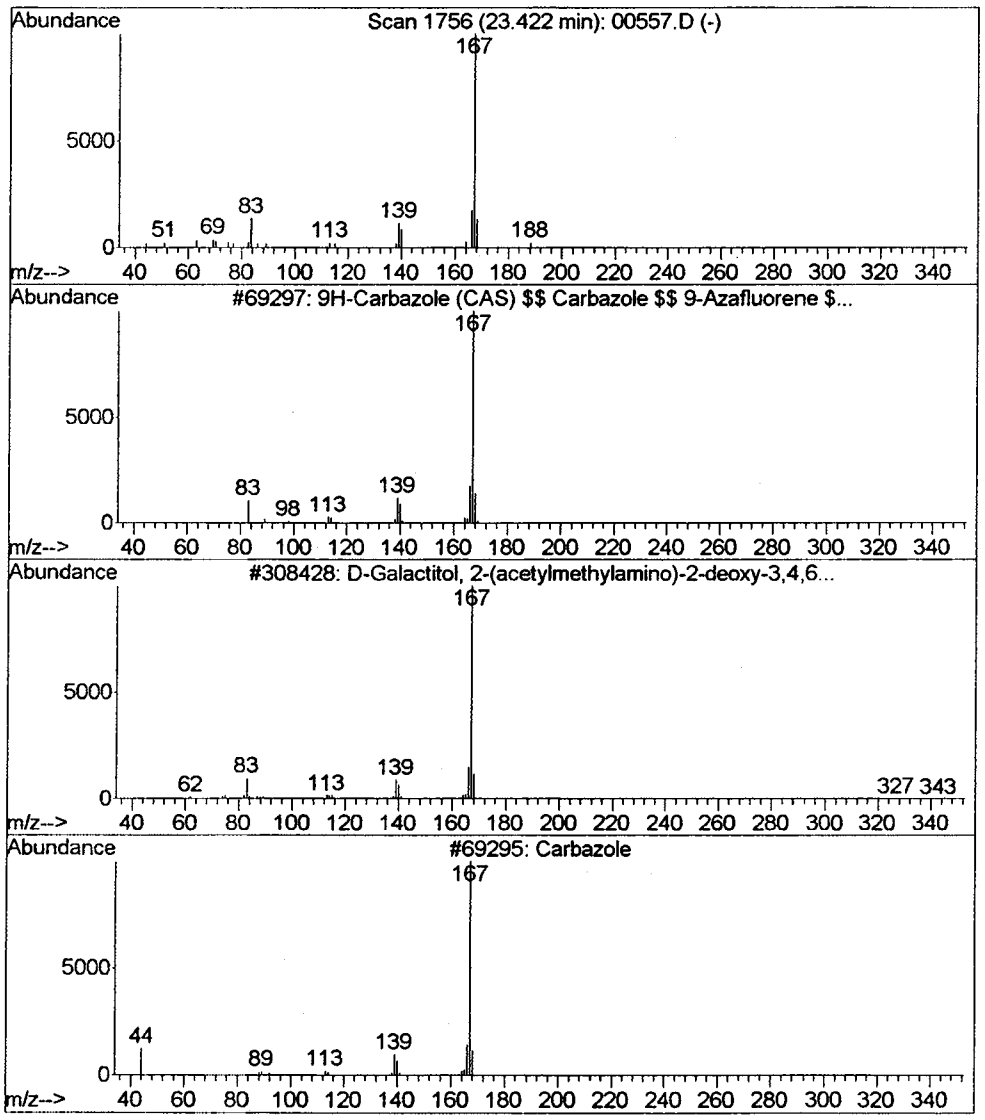
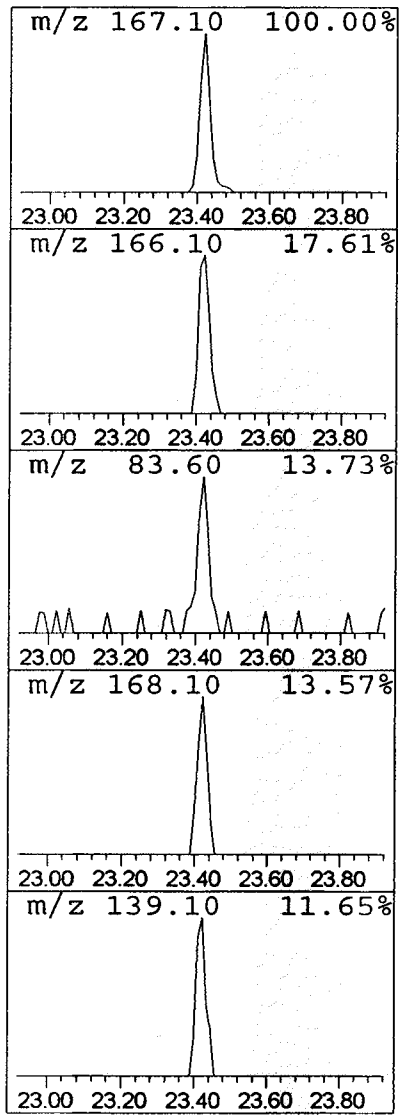
Peak Number 7 9H-Carbazole (CAS) $$ Carba... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.42	0.20 ug/L	114236	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Carbazole (CAS) $$ Carbazole ...	167	C12H9N	000086-74-8	91
2	D-Galactitol, 2-(acetylmethylami...	363	C16H29NO8	074410-42-7	90
3	Carbazole	167	C12H9N	000086-74-8	87
4	Carbazole	167	C12H9N	000086-74-8	87





Operator ID: Date Acquired: 15 Jan 2002 1:32 pm
Data File: C:\MSDCHEM\1\5973N\02JAN15\00557.D
Name: 508 scan
Misc: January 15, 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--- #	RT	Resp	Conc
Silane, tetramethyl-	5.89	3.2	ug/L	1017310	1	9.72	6385980	20.0
2-Propanone, 1,1,...	6.00	0.5	ug/L	155424	1	9.72	6385980	20.0
Aniline	9.05	0.2	ug/L	53131	1	9.72	6385980	20.0
2-Propanol, 1-(2-...	9.85	0.2	ug/L	56906	1	9.72	6385980	20.0
Benzene, methoxy-...	18.43	0.1	ug/L	59356	3	18.34	10335200	20.0
3-Cyanocarbazole ...	22.28	0.1	ug/L	83471	4	22.65	11574600	20.0
9H-Carbazole (CAS...	23.42	0.2	ug/L	114236	4	22.65	11574600	20.0