

User: Vinci, David L  
 Westchester Dept. of Labs & Research  
 Date: 05/22/2002 Time: 10:48:15

Sample: AE10986  
 Analysis: \$GCMS GCMS Scan For Unknowns  
 Units: ug  
 Started: 5/22/02 10:48 Ended: 5/22/02 10:48 Analyst: DLV  
 Page: 1

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

**omments for Sample AE10986 - Analysis \$GCMS**

Westchester Dept. of Labs & Research

User: Vinci, David L

Date: 05-22-2002 Time: 10:50:41

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds.

The level for Bis(2-ethylhexyl)phthalate of 5.4 ug/l is probably due to laboratory contamination, which was also observed in the Laboratory Blank and CS Standard.

Data File : C:\MSDCHEM\1\DATA\020515\10986.D

Vial: 16

Acq On : 16 May 2002 2:37 am

Operator: Nefliu

Sample : sample

Inst : Instrumen

Misc :

Multiplr: 1.00

MS Integration Params: rteint.e

Quant Time: May 16 08:39:41 2002

Quant Results File: SCAN020507.RE

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

Title : Method 508 GC/MS Scan

Last Update : Wed May 15 15:22:39 2002

Response via : Initial Calibration

DataAcq Meth : 508SCAN1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 11.38 | 152  | 418695   | 40.00 | ug/l  | -0.01    |
| 10) Naphthalene-d8        | 16.53 | 136  | 1585517  | 40.00 | ug/l  | -0.04    |
| 17) Acenaphthene-d10      | 24.45 | 164  | 829755   | 40.00 | ug/l  | -0.02    |
| 30) Phenanthrene-d10      | 31.71 | 188  | 1408175  | 40.00 | ug/l  | -0.03    |
| 38) Chrysene-d12          | 39.93 | 240  | 1136828  | 40.00 | ug/l  | -0.05    |
| 44) Perylene-d12          | 43.15 | 264  | 682480   | 40.00 | ug/l  | -0.03    |

## System Monitoring Compounds

|               |        |     |          |       |        |       |
|---------------|--------|-----|----------|-------|--------|-------|
| 27) TCMX      | 27.55  | 207 | 229116   | 34.57 | ug/l   | -0.02 |
| Spiked Amount | 40.000 |     | Recovery | =     | 86.42% |       |

## Target Compounds

|                                | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 39) Pyrene                     | 36.66 | 202  | 82       | 0.00 | ug/l  | # 58   |
| 43) Bis(2-ethylhexyl)phthalate | 40.52 | 149  | 131406   | 5.40 | ug/l  | 93     |

-----  
 (#) = qualifier out of range (m) = manual integration (+) = signals summed  
 10986.D SCAN020507.M Thu May 16 09:22:47 2002 Page 1

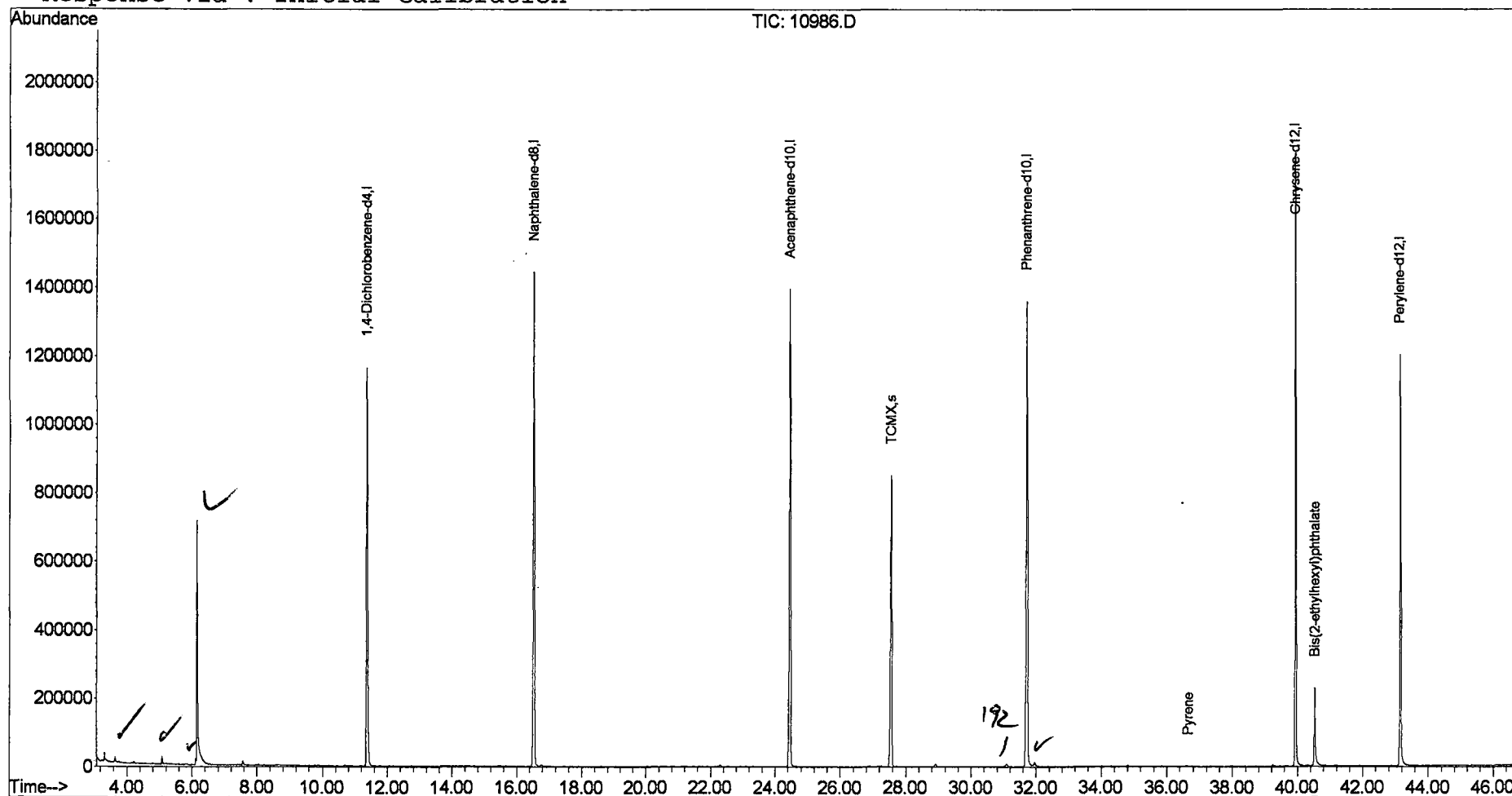
# Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020515\10986.D  
 Acq On : 16 May 2002 2:37 am  
 Sample : sample  
 Misc :  
 MS Integration Params: rteint.e  
 Quant Time: May 16 9:22 2002

Vial: 16  
 Operator: Nefliu  
 Inst : Instrumen  
 Multiplr: 1.00

Quant Results File: SCAN020507.RES

Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)  
 Title : Method 508 GC/MS Scan  
 Last Update : Wed May 15 15:22:39 2002  
 Response via : Initial Calibration



## LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\020515\10986.D

Acq On : 16 May 2002 2:37 am

Sample : sample

Misc :

MS Integration Params: rteint.e

Vial: 16

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

Title : Method 508 GC/MS Scan

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0.7 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

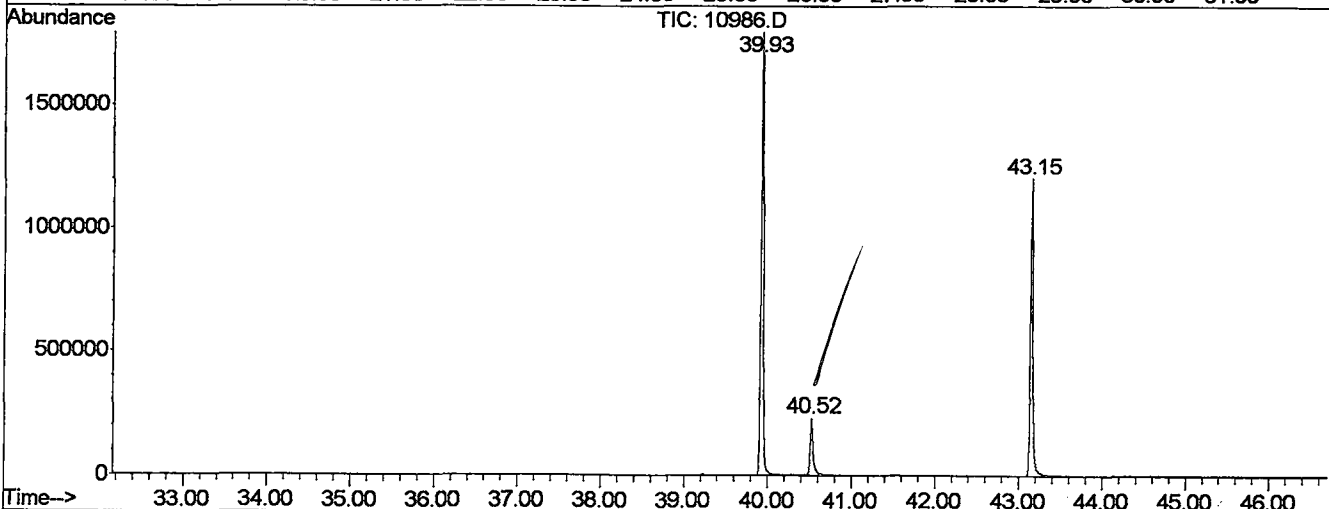
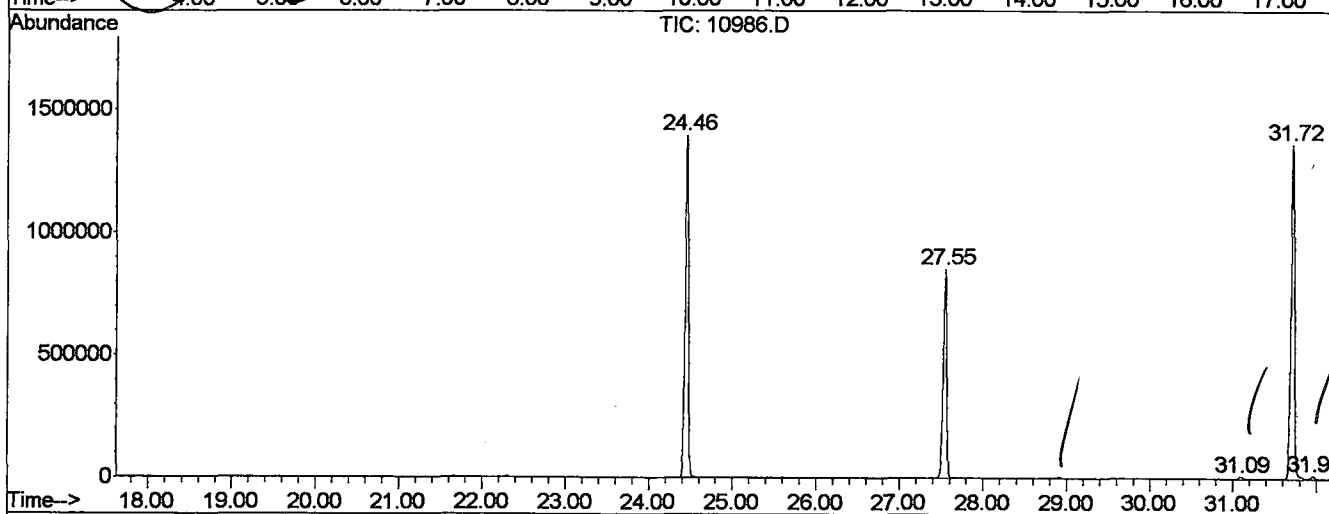
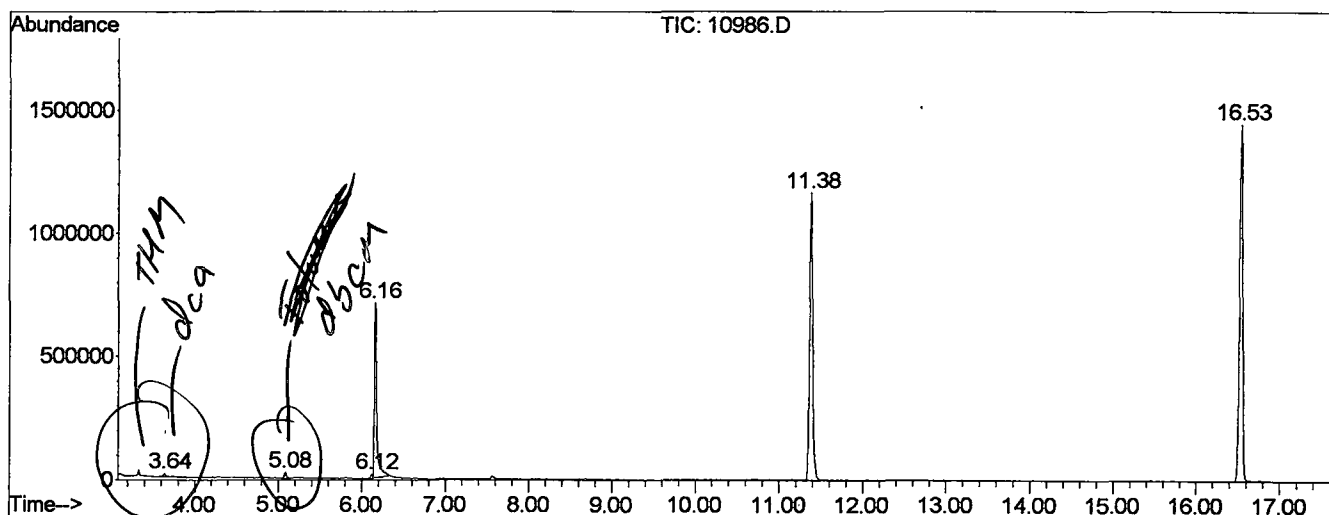
Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.643       | 88            | 96          | 102          | rBV5     | 15753          | 30083         | 0.74%           | 0.122%        |
| 2         | 5.083       | 336           | 341         | 351          | rBV3     | 23181          | 43987         | 1.09%           | 0.178%        |
| 3         | 6.117       | 512           | 517         | 520          | rBV3     | 17581          | 29242         | 0.72%           | 0.119%        |
| 4         | 6.158       | 520           | 524         | 554          | rVB      | 706449         | 1363505       | 33.76%          | 5.527%        |
| 5         | 11.376      | 1400          | 1412        | 1436         | rBV      | 1163656        | 2930922       | 72.56%          | 11.880%       |
| 6         | 16.534      | 2277          | 2290        | 2307         | rBV      | 1443979        | 3641907       | 90.16%          | 14.761%       |
| 7         | 24.460      | 3624          | 3639        | 3653         | rBV2     | 1394952        | 3746639       | 92.75%          | 15.186%       |
| 8         | 27.551      | 4144          | 4165        | 4179         | rBV2     | 851041         | 2363727       | 58.52%          | 9.581%        |
| 9         | 31.088      | 4759          | 4767        | 4781         | rVB3     | 8716           | 31411         | 0.78%           | 0.127%        |
| 10        | 31.717      | 4853          | 4874        | 4896         | rBV2     | 1360566        | 4039397       | 100.00%         | 16.372%       |
| 11        | 31.952      | 4906          | 4914        | 4929         | rVB4     | 13182          | 46353         | 1.15%           | 0.188%        |
| 12        | 39.931      | 6261          | 6272        | 6290         | rBV2     | 1791861        | 3470671       | 85.92%          | 14.067%       |
| 13        | 40.518      | 6363          | 6372        | 6388         | rBV      | 226079         | 524766        | 12.99%          | 2.127%        |
| 14        | 43.151      | 6809          | 6820        | 6847         | rBV      | 1202376        | 2409256       | 59.64%          | 9.765%        |

Sum of corrected areas: 24671866

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\020515\10986.D  
 Operator : Nefliu  
 Acquired : 16 May 2002 2:37 am using AcqMethod 508SCAN1  
 Instrument : Instrumen  
 Sample Name: sample  
 Misc Info :  
 Vial Number: 16  
 Quant File :SCAN020507.RES (RTE Integrator)



## Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020515\10986.D  
Acq On : 16 May 2002 2:37 am  
Sample : sample  
Misc :  
MS Integration Params: rteint.e

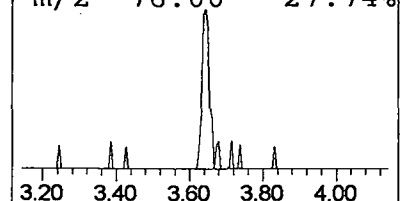
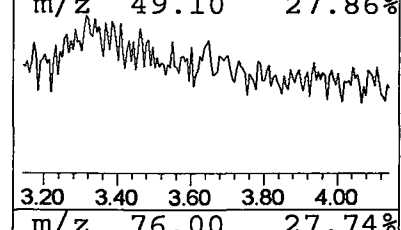
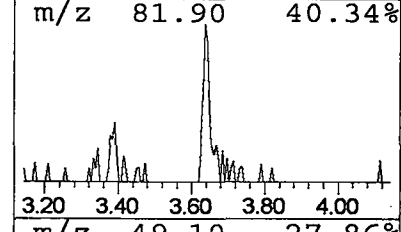
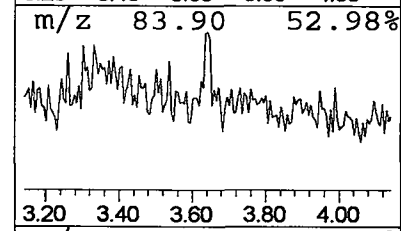
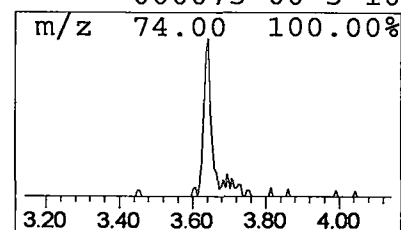
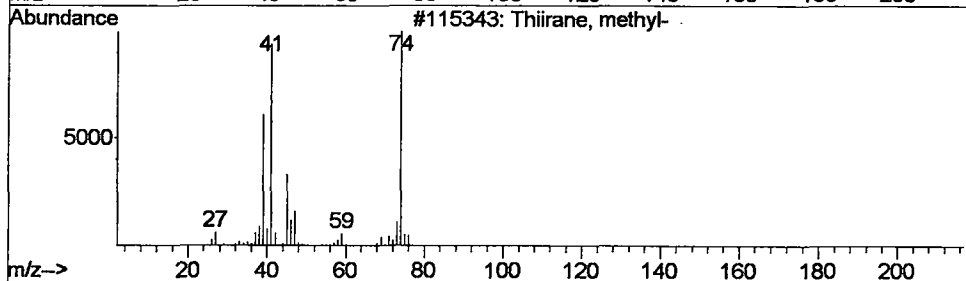
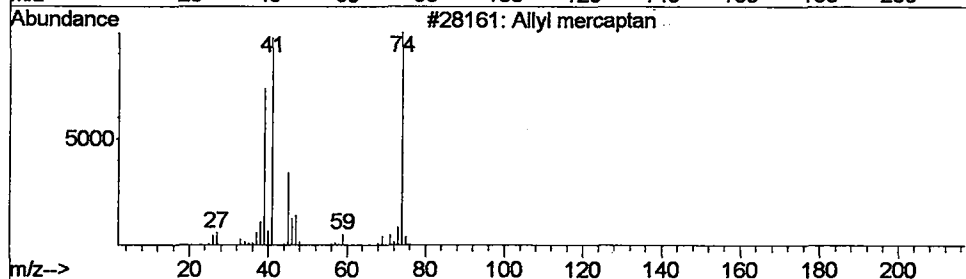
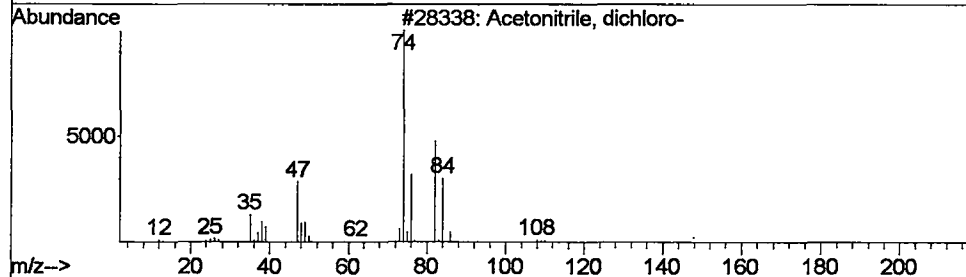
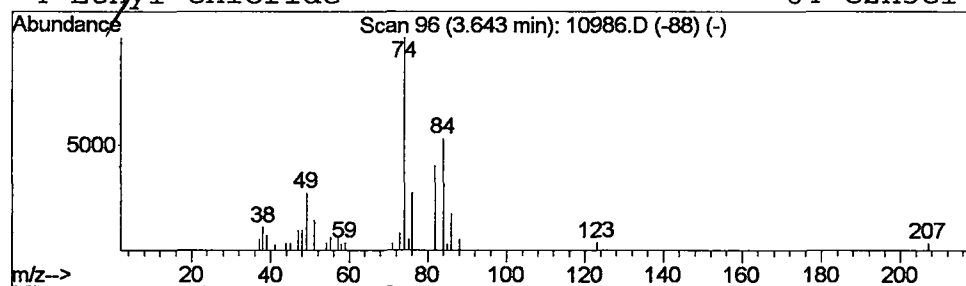
Vial: 16  
Operator: Nefliu  
Inst : Instrumen  
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)  
Title : Method 508 GC/MS Scan  
Library : C:\DATABASE\nist98.l

\*\*\*\*\*  
Peak Number 1 Acetonitrile, dichloro- Concentration Rank 4

| R.T. | EstConc   | Area  | Relative to ISTD       | R.T.  |
|------|-----------|-------|------------------------|-------|
| 3.64 | 0.41 ug/l | 30083 | 1,4-Dichlorobenzene-d4 | 11.38 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Acetonitrile, dichloro- | 109 | C2HCl2N | 003018-12-0 | 38   |
| 2    |    |   | Allyl mercaptan         | 74  | C3H6S   | 000870-23-5 | 14   |
| 3    |    |   | Thiirane, methyl-       | 74  | C3H6S   | 001072-43-1 | 14   |
| 4    |    |   | Ethyl Chloride          | 64  | C2H5Cl  | 000075-00-3 | 10   |



## Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020515\10986.D  
Acq On : 16 May 2002 2:37 am  
Sample : sample  
Misc :  
MS Integration Params: rteint.e

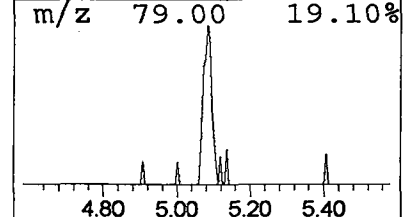
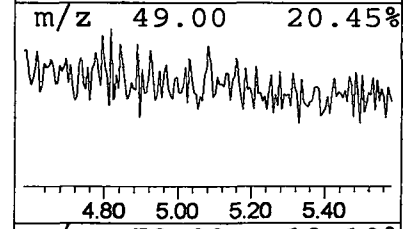
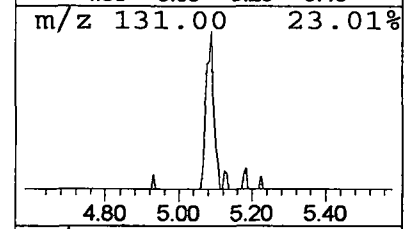
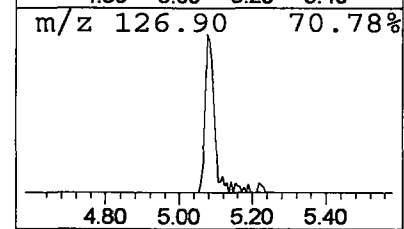
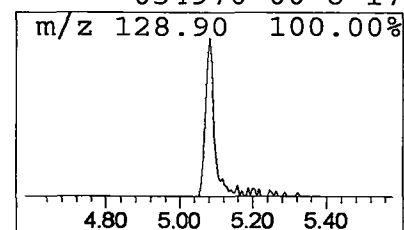
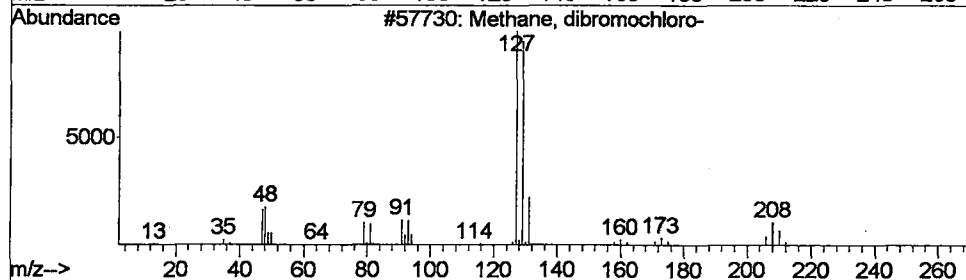
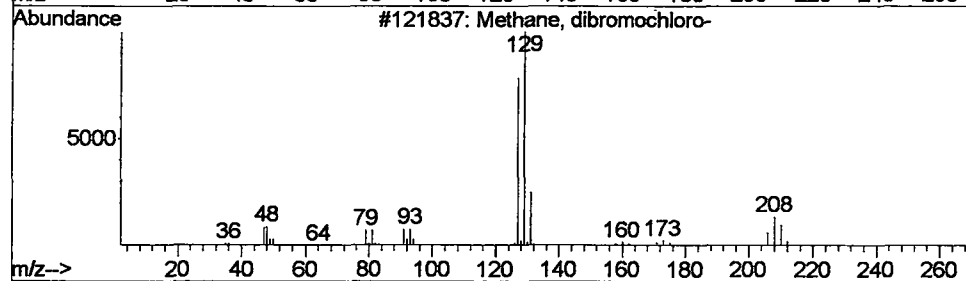
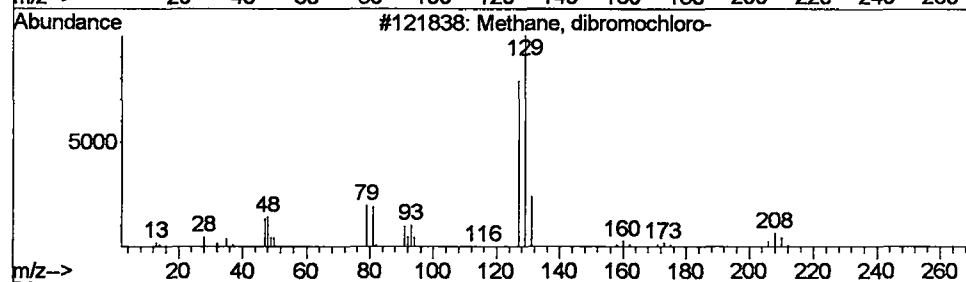
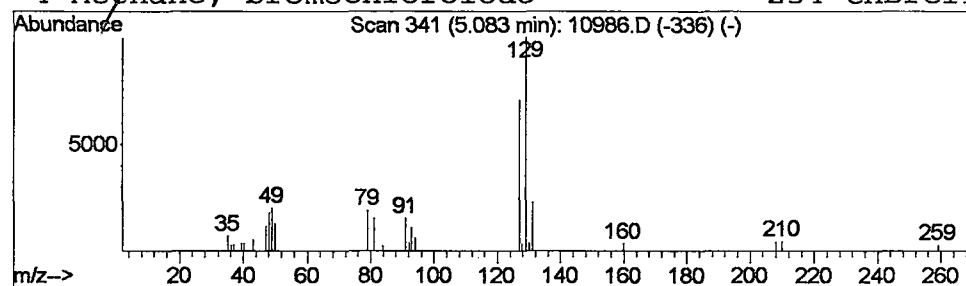
Vial: 16  
Operator: Nefliu  
Inst : Instrumen  
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)  
Title : Method 508 GC/MS Scan  
Library : C:\DATABASE\nist98.1

\*\*\*\*\*  
Peak Number 2 Methane, dibromochloro- Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD       | R.T.  |
|------|-----------|-------|------------------------|-------|
| 5.08 | 0.60 ug/l | 43987 | 1,4-Dichlorobenzene-d4 | 11.38 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| ✓ 1     |   | Methane, dibromochloro-  | 206 | CHBr2Cl | 000124-48-1 | 95   |
| 2       |   | Methane, dibromochloro-  | 206 | CHBr2Cl | 000124-48-1 | 50   |
| 3       |   | Methane, dibromochloro-  | 206 | CHBr2Cl | 000124-48-1 | 38   |
| 4       |   | Methane, bromochloriodo- | 254 | CHBrClI | 034970-00-8 | 17   |



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Acq On : 16 May 2002 2:37 am

Sample : sample

Misc :

MS Integration Params: rteint.e

Vial: 16

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

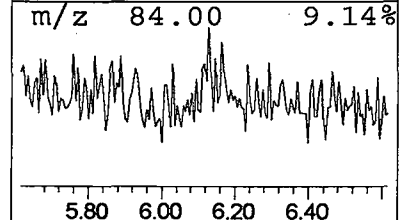
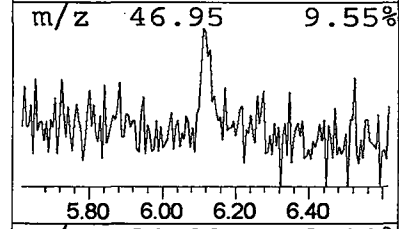
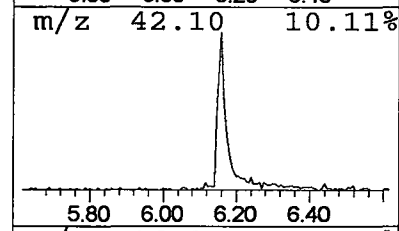
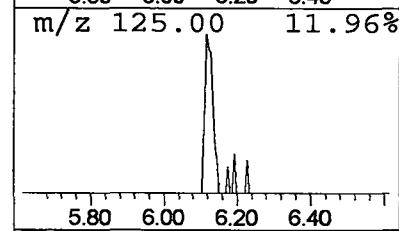
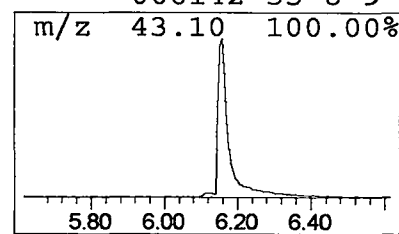
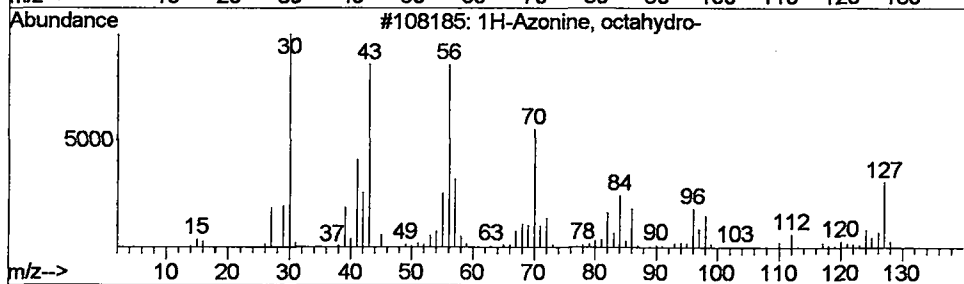
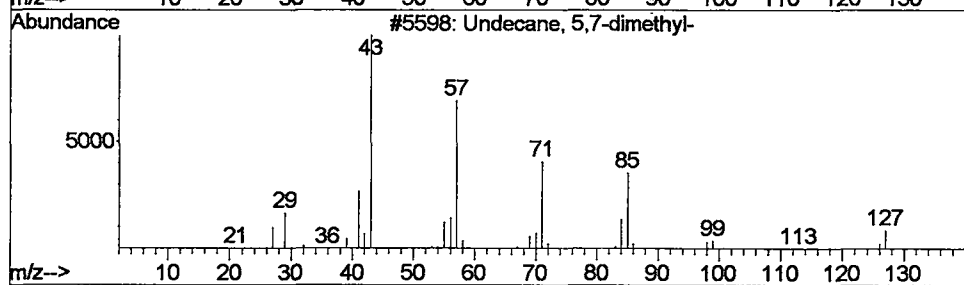
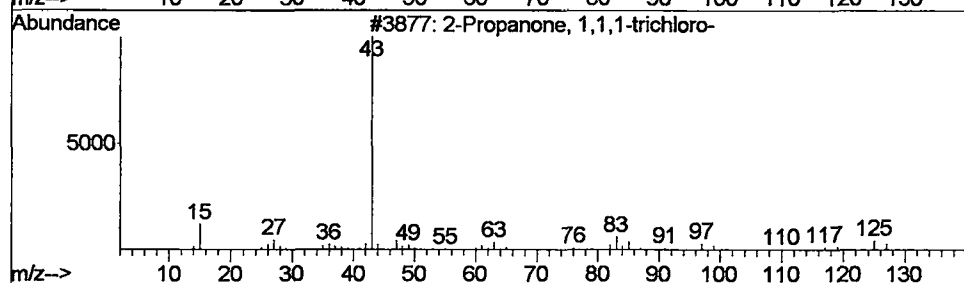
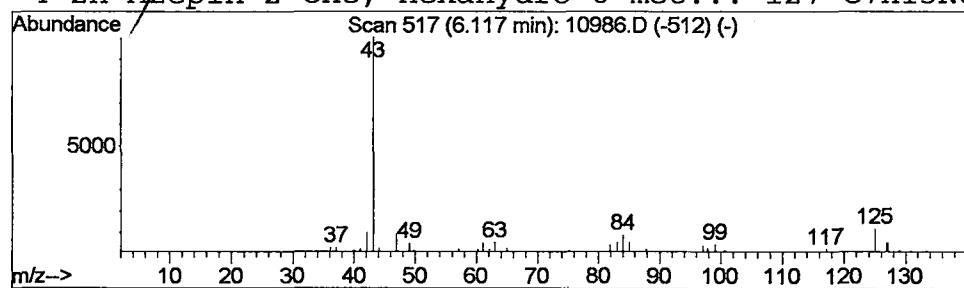
Title : Method 508 GC/MS Scan

Library : C:\DATABASE\nist98.1

\*\*\*\*\*  
Peak Number 3 2-Propanone, 1,1,1-trichloro- Concentration Rank 5

| R.T. | EstConc   | Area  | Relative to ISTD       | R.T.  |
|------|-----------|-------|------------------------|-------|
| 6.12 | 0.40 ug/l | 29242 | 1,4-Dichlorobenzene-d4 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Propanone, 1,1,1-trichloro-       | 160 | C3H3Cl3O | 000918-00-3 | 36   |
| 2    |    | Undecane, 5,7-dimethyl-             | 184 | C13H28   | 017312-83-3 | 10   |
| 3    |    | 1H-Azonine, octahydro-              | 127 | C8H17N   | 005661-71-2 | 9    |
| 4    |    | 2H-Azepin-2-one, hexahydro-6-met... | 127 | C7H13NO  | 006142-55-8 | 9    |



Library Search Compound Report

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 Misc :  
 MS Integration Params: rteint.e

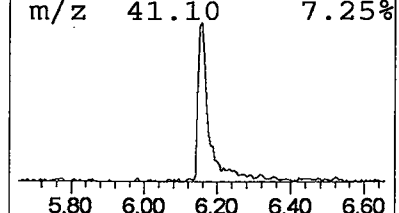
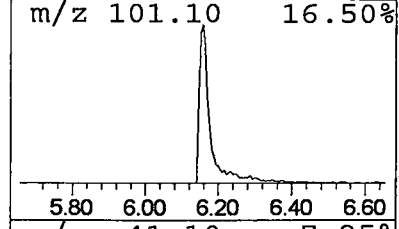
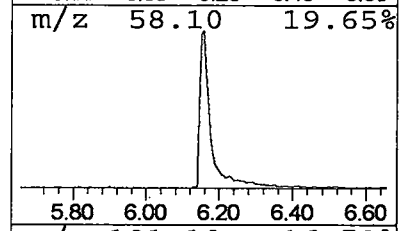
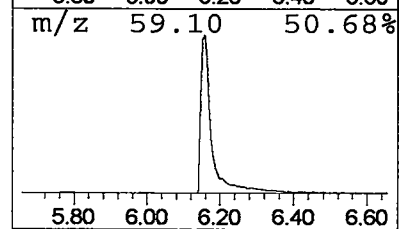
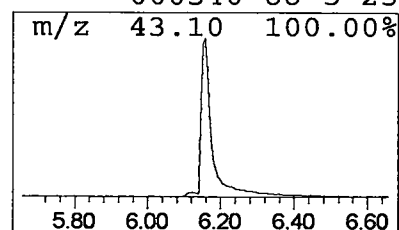
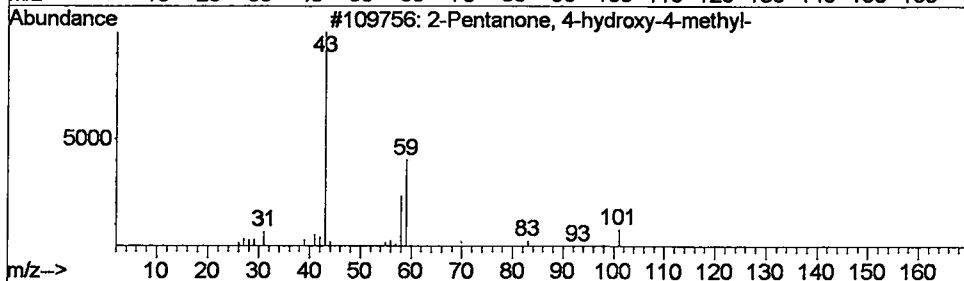
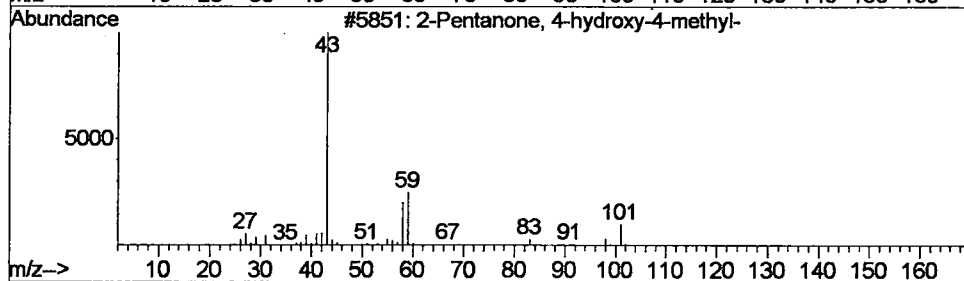
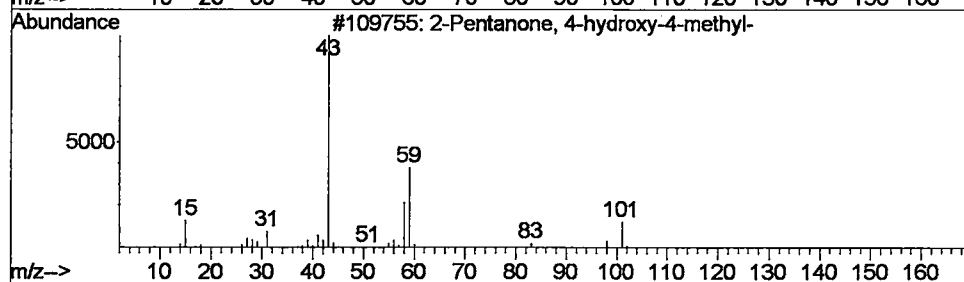
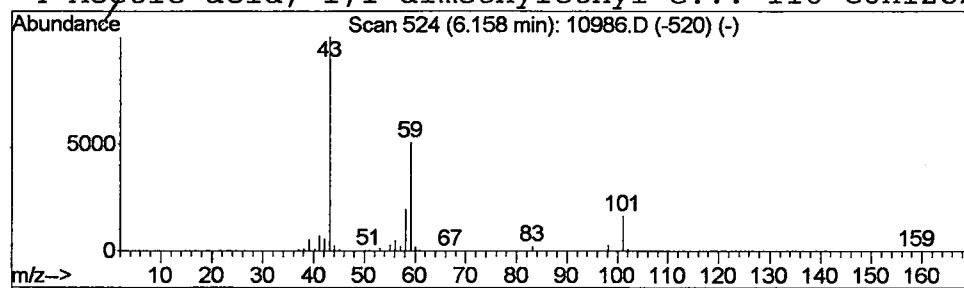
Vial: 16  
 Operator: Nefliu  
 Inst : Instrumen  
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)  
 Title : Method 508 GC/MS Scan  
 Library : C:\DATABASE\nist98.1

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

| R.T. | EstConc    | Area    | Relative to ISTD       | R.T.  |
|------|------------|---------|------------------------|-------|
| 6.16 | 18.61 ug/l | 1363510 | 1,4-Dichlorobenzene-d4 | 11.38 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| ✓ 1  |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 74   |
| 2    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 45   |
| 3    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 42   |
| 4    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 25   |



Library Search Compound Report

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 Acq On : 16 May 2002 2:37 am  
 Sample : sample  
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 MS Integration Params: rteint.e

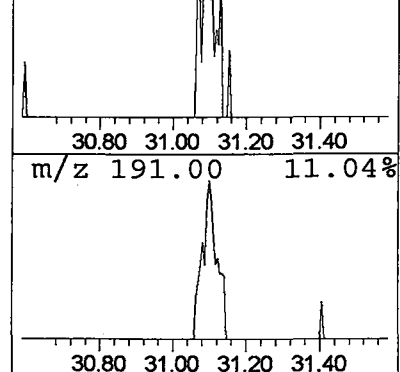
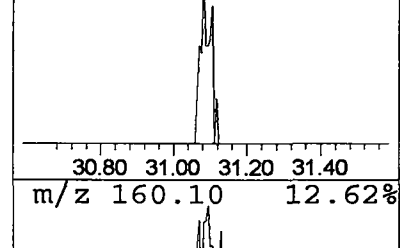
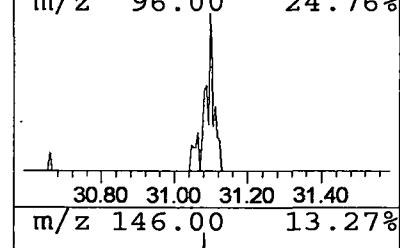
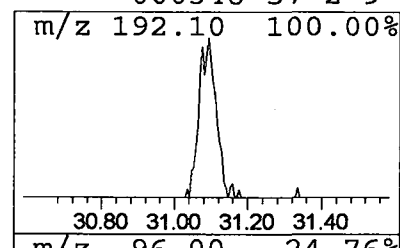
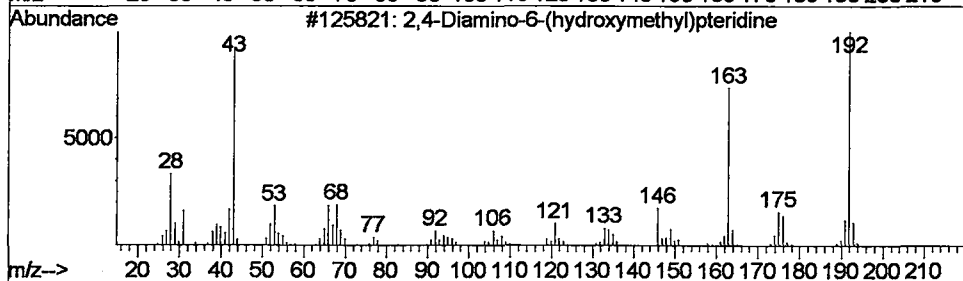
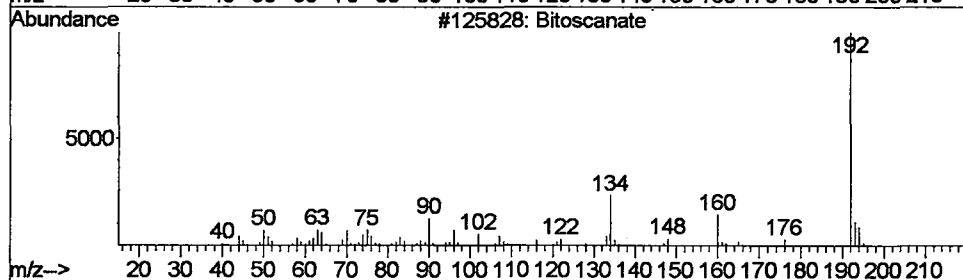
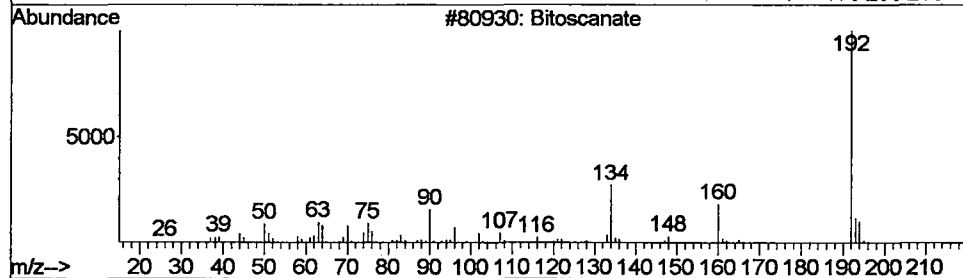
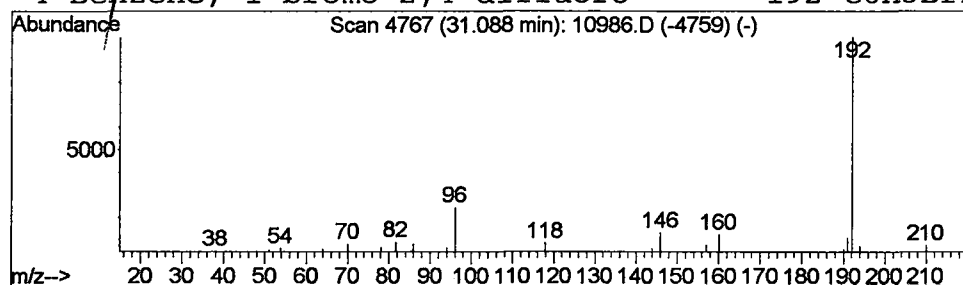
Vial: 16  
 Operator: Nefliu  
 Inst : Instrumen  
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)  
 Title : Method 508 GC/MS Scan  
 Library : C:\DATABASE\nist98.1

\*\*\*\*\*  
 Peak Number 5 Bitoscanate Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 31.09 | 0.31 ug/l | 31411 | Phenanthrene-d10 | 31.71 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Bitoscanate                         | 192 | C8H4N2S2 | 004044-65-9 | 33   |
| 2    |    | Bitoscanate                         | 192 | C8H4N2S2 | 004044-65-9 | 33   |
| 3    |    | 2,4-Diamino-6-(hydroxymethyl)pte... | 192 | C7H8N6O  | 000945-24-4 | 9    |
| 4    |    | Benzene, 1-bromo-2,4-difluoro-      | 192 | C6H3BrF2 | 000348-57-2 | 9    |



## Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020515\10986.D

Acq On : 16 May 2002 2:37 am

Sample : sample

Misc :

MS Integration Params: rteint.e

Vial: 16

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

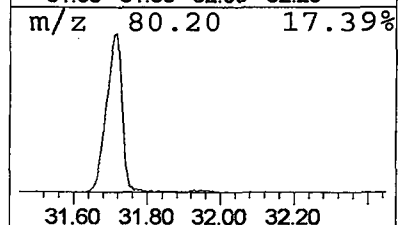
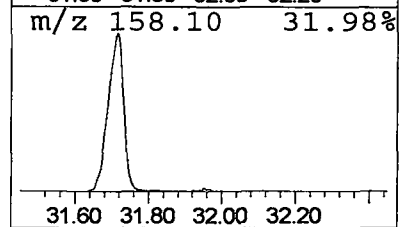
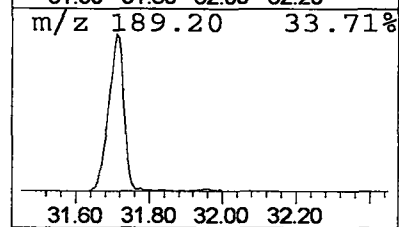
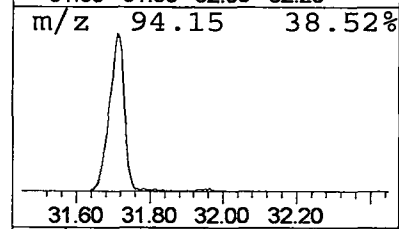
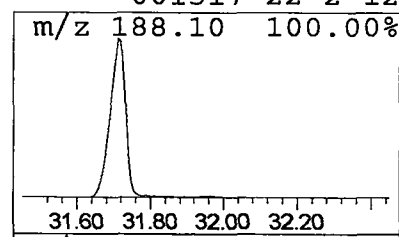
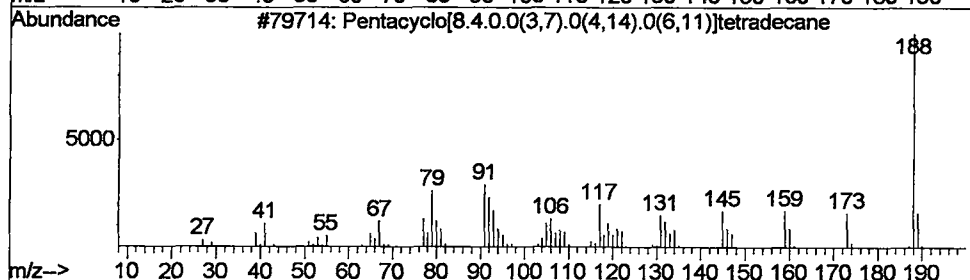
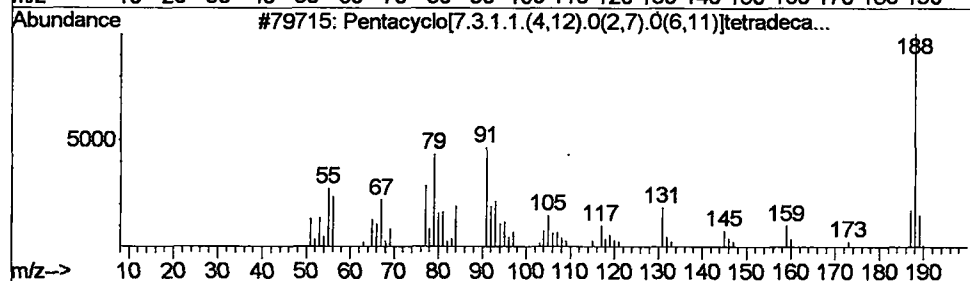
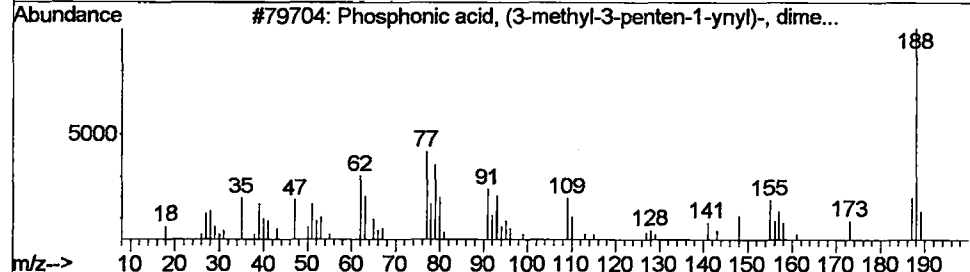
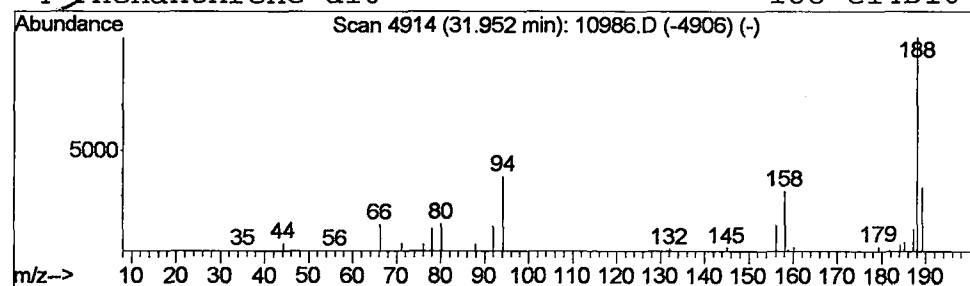
Title : Method 508 GC/MS Scan

Library : C:\DATABASE\nist98.l

\*\*\*\*\*  
Peak Number 6 Phosphonic acid, (3-methyl-... Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 31.95 | 0.46 ug/l | 46353 | Phenanthrene-d10 | 31.71 |

| Hit# of | 5                                    | Tentative ID | MW       | MolForm      | CAS# | Qual |
|---------|--------------------------------------|--------------|----------|--------------|------|------|
| 1       | Phosphonic acid, (3-methyl-3-pen...  | 188          | C8H13O3P | 022152-34-7  | 37   |      |
| 2       | Pentacyclo[7.3.1.1.(4,12).0(2,7)...] | 188          | C14H20   | 1000215-61-8 | 37   |      |
| 3       | Pentacyclo[8.4.0.0(3,7).0(4,14)...]  | 188          | C14H20   | 1000099-27-2 | 17   |      |
| 4       | Phenanthrene-d10                     | 188          | C14D10   | 001517-22-2  | 12   |      |



## tentatively identified compound (LSC) summary

Operator ID: Nefliu Date Acquired: 16 May 2002 2:37 am  
Data File: C:\MSDCHEM\1\DATA\020515\10986.D  
Name: sample  
Misc:  
Method: C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)  
Title: Method 508 GC/MS Scan  
Library Searched: C:\DATABASE\nist98.1

| TIC Top Hit name                | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|---------------------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                                 |       |         |       |          | #                     | RT    | Resp    | Conc |
| Acetonitrile, dic...            | 3.64  | 0.4     | ug/l  | 30083    | 1                     | 11.38 | 2930920 | 40.0 |
| Methane, dibromoc...            | 5.08  | 0.6     | ug/l  | 43987    | 1                     | 11.38 | 2930920 | 40.0 |
| - 2-Propanone, 1,1,...          | 6.12  | 0.4     | ug/l  | 29242    | 1                     | 11.38 | 2930920 | 40.0 |
| - 2-Pentanone, 4-hy...          | 6.16  | 18.6    | ug/l  | 1363510  | 1                     | 11.38 | 2930920 | 40.0 |
| <del>Bitoscanate</del>          | 31.09 | 0.3     | ug/l  | 31411    | 4                     | 31.71 | 4039400 | 40.0 |
| <del>Phosphonic acid, ...</del> | 31.95 | 0.5     | ug/l  | 46353    | 4                     | 31.71 | 4039400 | 40.0 |
| <del>anthracene-d10</del>       |       |         |       |          |                       |       |         |      |