

User: Vinci, David L  
 Westchester Dept. of Labs & Research  
 Date: 03/12/2002 Time: 15:01:55

Sample: AE03072  
 Analysis: \$GCMS GCMS Scan For Unknowns  
 Units: ug  
 Started: 3/12/02 15:01 Ended: 3/12/02 15:01 Analyst: DLV  
 Page: 1

|   | Component Name          | Viol | Result | Qualifier | MDL |
|---|-------------------------|------|--------|-----------|-----|
| 1 | Other unknown compounds |      | .      |           |     |
| 2 | Surr_2,4-DDD            |      | 89     |           | 5.0 |

**Comments for Sample AE03072 - Analysis \$GCMS**

Westchester Dept. of Labs & Research

User: Vinci, David L

Date: 03-12-2002 Time: 15:01:59

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

Data File : C:\MSDCHEM\1\DATA\022802\03072.D

Acq On : 1 Mar 2002 4:29 pm

Sample : 2/12/02 GC SCAN

Misc :

MS Integration Params: BENZO.P

Quant Time: Mar 04 05:46:26 2002

Vial: 6

Operator: McLean

Inst : Instrumen

Multiplr: 1.00

Quant Results File: 5080202.RES

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)

Title : Quantitation For Method 508gcscan

Last Update : Mon Feb 25 19:17:14 2002

Response via : Initial Calibration

DataAcq Meth : 508SCAN

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.58  | 150  | 1506417  | 20.00 | ug/L  | 0.00      |
| 10) Naphthalene-d8        | 13.05 | 136  | 4004461  | 20.00 | ug/L  | 0.00      |
| 17) Acenaphthene-d10      | 18.17 | 164  | 2224221  | 20.00 | ug/L  | 0.00      |
| 29) Phenanthrene-d10      | 22.52 | 188  | 3406848  | 20.00 | ug/L  | 0.00      |
| 38) Chrysene-d12          | 30.34 | 240  | 3116699  | 20.00 | ug/L  | -0.02     |
| 44) Perylene-d12          | 34.21 | 264  | 2028518  | 20.00 | ug/L  | 0.00      |

## System Monitoring Compounds

|                  |       |     |          |      |        |      |
|------------------|-------|-----|----------|------|--------|------|
| 37) 2,4-ddd surr | 27.46 | 235 | 240934   | 4.45 | ug/L   | 0.00 |
| Spiked Amount    | 5.000 |     | Recovery | =    | 89.00% |      |

## Target Compounds

|                                |       |     |       |      |      | Qvalue |
|--------------------------------|-------|-----|-------|------|------|--------|
| 2) N-nitroso-dimethyl amine    | 0.00  | 74  | 0     | N.D. | d    |        |
| 3) bis(2-chloroethyl) ether    | 0.00  | 93  | 0     | N.D. |      |        |
| 4) 1,3 - Dichlorobenze         | 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-Chloropr   | 0.00  | 45  | 0     | N.D. |      |        |
| 8) N-Nitroso-di-n-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) Naphthalene                | 0.00  | 128 | 0     | N.D. |      |        |
| 16) Hexachlorobutadiene        | 0.00  | 225 | 0     | N.D. |      |        |
| 18) Hexachlorocyclopentadiene  | 0.00  | 237 | 0     | N.D. |      |        |
| 19) 2-chloronaphthalene        | 0.00  | 162 | 0     | N.D. |      |        |
| 20) Dimethylphthalate          | 0.00  | 163 | 0     | N.D. |      |        |
| 21) 2,6-Dinitrotoluene         | 0.00  | 165 | 0     | N.D. | d    |        |
| 22) Acenaphthylene             | 0.00  | 152 | 0     | N.D. |      |        |
| 23) Acenaphthene               | 0.00  | 153 | 0     | N.D. |      |        |
| 24) 2,4-Dinitrotoluene         | 0.00  | 165 | 0     | N.D. |      |        |
| 25) Diethylphthalate           | 19.75 | 149 | 7079  | 0.05 | ug/L | 86     |
| 26) 4-Chlorophenyl-phenyl ethe | 0.00  | 204 | 0     | N.D. |      |        |
| 27) Fluorene                   | 0.00  | 166 | 0     | N.D. |      |        |
| 28) Azobenzen/ 1,2-Diphenylhyd | 0.00  | 77  | 0     | N.D. |      |        |
| 30) N-Nitrosodiphenylamine     | 0.00  | 169 | 0     | N.D. |      |        |
| 31) 4-Bromophenyl-phenyl ether | 0.00  | 248 | 0     | N.D. |      |        |
| 32) Hexachlorobenzene          | 0.00  | 284 | 0     | N.D. |      |        |
| 33) Phenanthrene               | 0.00  | 178 | 0     | N.D. | d    |        |
| 34) Anthracene                 | 0.00  | 178 | 0     | N.D. | d    |        |
| 35) Di-n-butylphthalate        | 24.67 | 149 | 5598  | 0.02 | ug/L | 79     |
| 36) Fluoranthene               | 26.10 | 202 | 7127  | 0.03 | ug/L | 71     |
| 39) Pyrene                     | 26.71 | 202 | 7164  | 0.03 | ug/L | 75     |
| 40) Butylbenzylphthalate       | 0.00  | 149 | 0     | N.D. |      |        |
| 41) Benzo (a) anthracene       | 0.00  | 228 | 0     | N.D. | d    |        |
| 42) Bis (2-ethylhexyl) phthala | 30.94 | 149 | 13425 | 0.09 | ug/L | 91     |
| 43) Chrysene                   | 30.40 | 228 | 11668 | 0.06 | ug/L | 92     |
| 45) Di-n-Octylphthalate        | 32.78 | 149 | 4071  | 0.02 | ug/L | 65     |
| 46) Benzo (b) fluoranthene     | 33.25 | 252 | 5192  | 0.03 | ug/L | 62     |

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

03072.D 5080202.M Mon Mar 04 05:50:05 2002

Page 1

## Quantitation Report

(QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022802\03072.D

Vial: 6

Acq On : 1 Mar 2002 4:29 pm

Operator: McLean

Sample : 2/12/02 GC SCAN

Inst : Instrumen

Misc :

Multiplr: 1.00

MS Integration Params: BENZO.P

Quant Time: Mar 04 05:46:26 2002

Quant Results File: 5080202.RES

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)

Title : Quantitation For Method 508gcscan

Last Update : Mon Feb 25 19:17:14 2002

Response via : Initial Calibration

DataAcq Meth : 508SCAN

| Compound                     | R.T.  | QIon | Response | Conc | Unit | Qvalue |
|------------------------------|-------|------|----------|------|------|--------|
| 47) Benzo (k) fluoranthene   | 33.33 | 252  | 10073    | 0.06 | ug/L | 60     |
| 48) Benzo (a) pyrene         | 0.00  | 252  | 0        | N.D. | d    |        |
| 49) Indeno (1,2,3-cd) pyrene | 0.00  | 276  | 0        | N.D. |      |        |
| 50) Dibenz (a,h) anthracene  | 0.00  | 278  | 0        | N.D. |      |        |
| 51) Benzo (g,h,i) perylene   | 37.40 | 276  | 4274     | 0.04 | ug/L | 49     |

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

03072.D 5080202.M Mon Mar 04 05:50:05 2002

Page 2

Data File : C:\MSDCHEM\1\DATA\022802\03072.D

Acq On : 1 Mar 2002 4:29 pm

Sample : 2/12/02 GC SCAN

Misc :

MS Integration Params: BENZO.P

Quant Time: Mar 4 5:49 2002

Vial: 6

Operator: McLean

Inst : Instrumen

Multiplr: 1.00

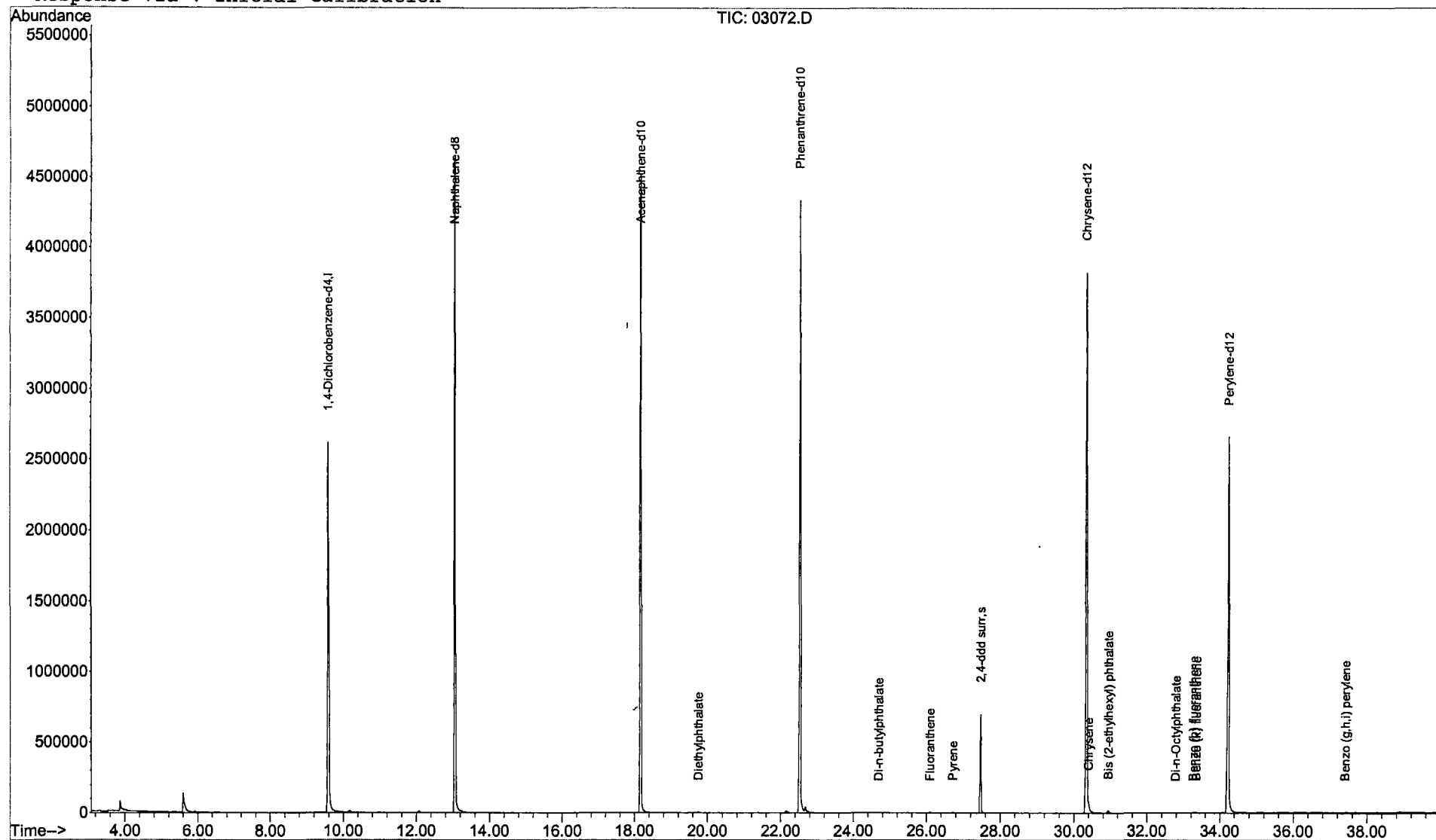
Quant Results File: 5080202.RES

Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)

Title : Quantitation For Method 508gcscan

Last Update : Mon Feb 25 19:17:14 2002

Response via : Initial Calibration



03072.D 5080202.M

Mon Mar 04 05:50:06 2002

## LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\022802\03072.D

Vial: 6

Acq On : 1 Mar 2002 4:29 pm

Operator: McLean

Sample : 2/12/02 GC SCAN

Inst : Instrumen

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)

Title : Quantitation For Method 508gcscan

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge &lt; 100 prefer &lt; Baseline drop else tangent &gt;

Peak separation: 5

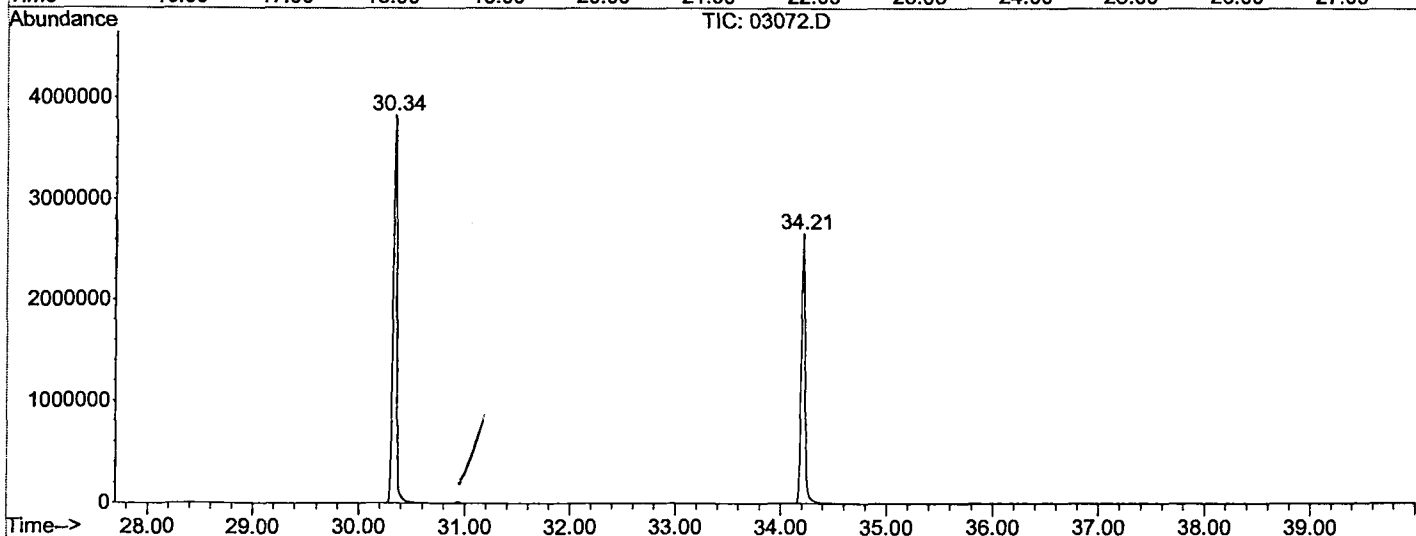
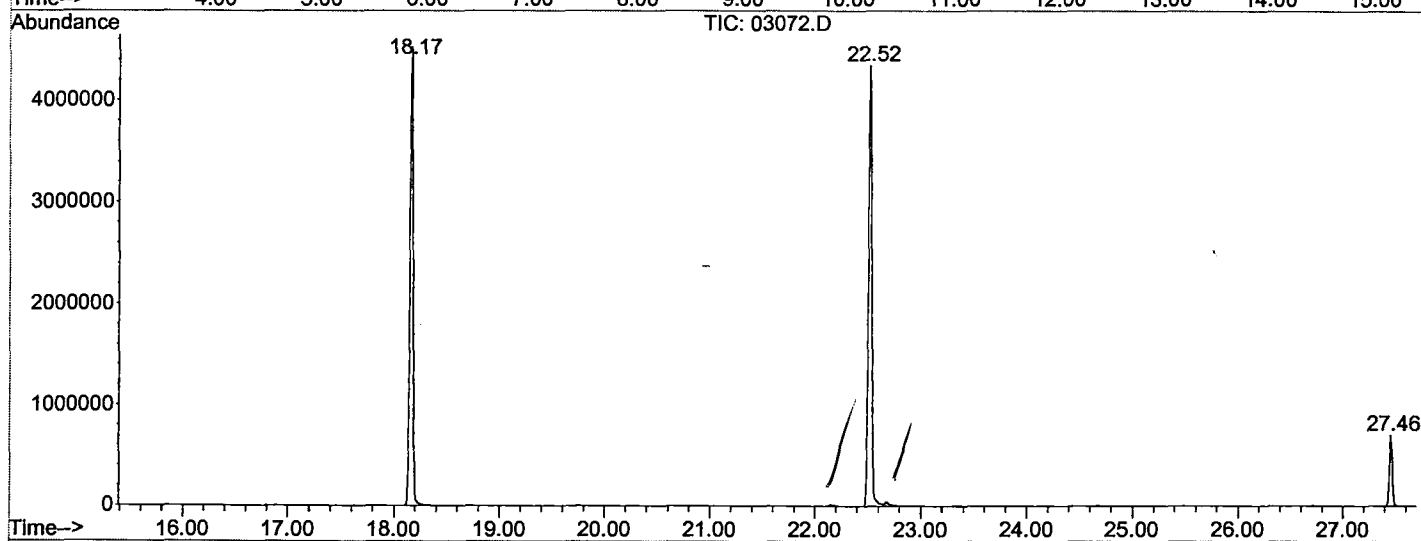
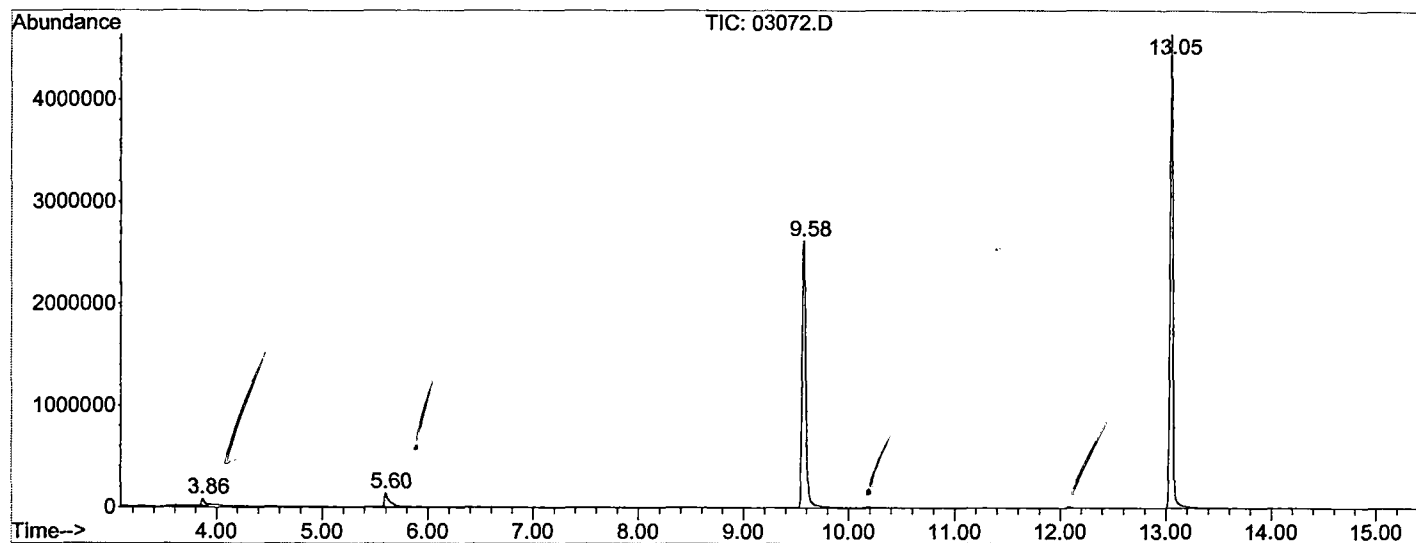
Signal : TIC

| 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         | 3.865       | 84            | 87          | 93           | rBV2     | 66740          | 142212        | 1.51%           | 0.277%        |
| 2         | 5.597       | 275           | 278         | 289          | rBV      | 134128         | 397878        | 4.23%           | 0.774%        |
| 3         | 9.579       | 711           | 717         | 746          | rBV      | 2618330        | 6471660       | 68.88%          | 12.585%       |
| 4         | 13.053      | 1094          | 1100        | 1116         | rBV      | 4639436        | 8686287       | 92.45%          | 16.892%       |
| 5         | 18.169      | 1657          | 1664        | 1680         | rBV      | 4521680        | 9261187       | 98.57%          | 18.010%       |
| 6         | 22.522      | 2138          | 2144        | 2158         | rBV2     | 4341012        | 9395858       | 100.00%         | 18.271%       |
| 7         | 27.457      | 2683          | 2688        | 2698         | rVB      | 697904         | 1273339       | 13.55%          | 2.476%        |
| 8         | 30.341      | 2998          | 3006        | 3022         | rBV2     | 3827573        | 9175654       | 97.66%          | 17.843%       |
| 9         | 34.214      | 3425          | 3433        | 3451         | rBV2     | 2661258        | 6619800       | 70.45%          | 12.873%       |

Sum of corrected areas: 51423875

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\022802\03072.D  
 Operator : McLean  
 Acquired : 1 Mar 2002 4:29 pm using AcqMethod 508SCAN  
 Instrument : Instrumen  
 Sample Name: 2/12/02 GC SCAN  
 Misc Info :  
 Vial Number: 6  
 Quant File :5080202.RES (RTE Integrator)



## Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\022802\03072.D

Acq On : 1 Mar 2002 4:29 pm

Sample : 2/12/02 GC SCAN

Misc :

MS Integration Params: LSCINT.P

Vial: 6

Operator: McLean

Inst : Instrumen

Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)

Title : Quantitation For Method 508gcscan

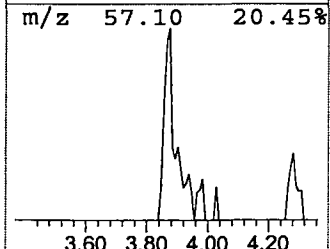
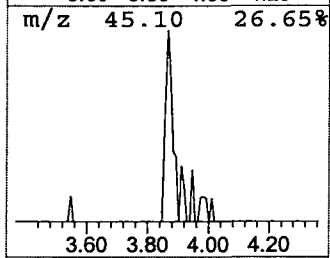
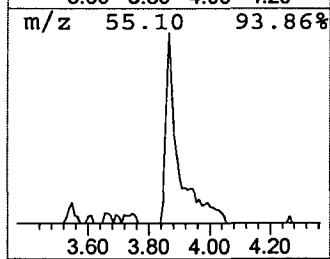
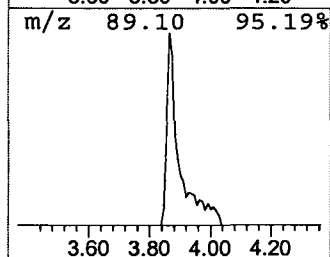
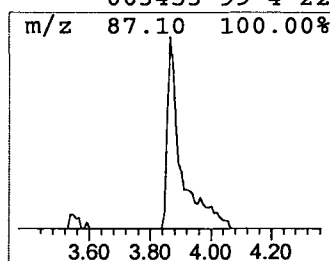
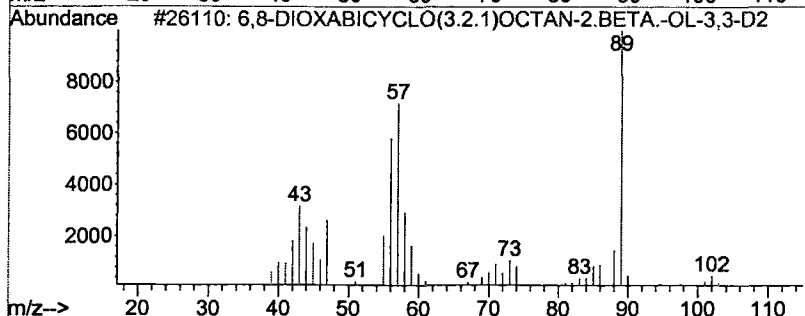
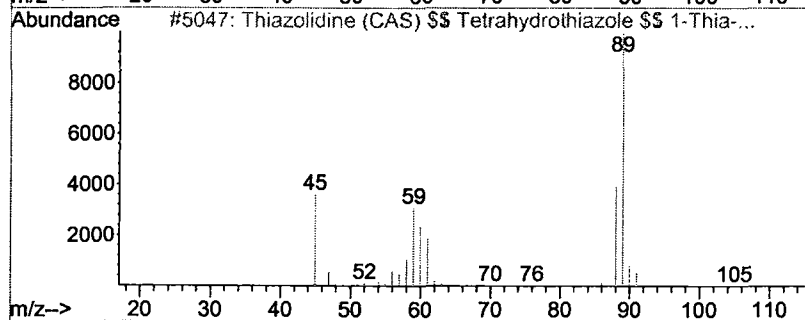
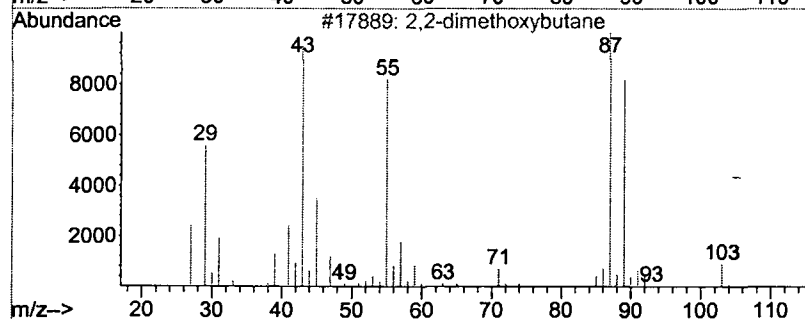
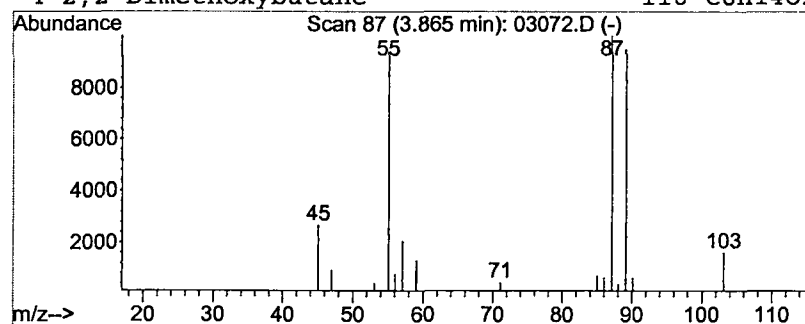
Library : C:\DATABASE\WILEY7N.L

\*\*\*\*\*

Peak Number 1 2,2-dimethoxybutane Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 3.86 | 0.44 ug/L | 142212 | 1,4-Dichlorobenzene-d4 | 9.58 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2,2-dimethoxybutane                   | 118 | C6H14O2  | 003453-99-4 | 90   |
| 2    |    |   | Thiazolidine (CAS) \$\$ Tetrahydro... | 89  | C3H7NS   | 000504-78-9 | 36   |
| 3    |    |   | 6,8-DIOXABICYCLO(3.2.1)OCTAN-2.B...   | 132 | C6H8D2O3 | 000000-00-0 | 36   |
| 4    |    |   | 2,2-Dimethoxybutane                   | 118 | C6H14O2  | 003453-99-4 | 22   |



## Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\022802\03072.D

Acq On : 1 Mar 2002 4:29 pm

Sample : 2/12/02 GC SCAN

Misc :

MS Integration Params: LSCINT.P

Vial: 6

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Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)

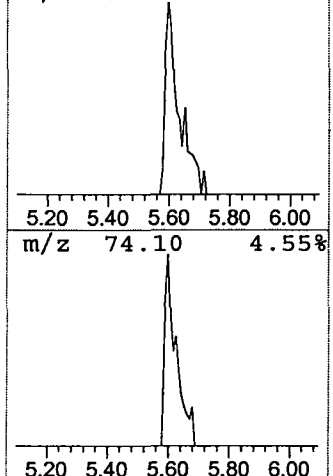
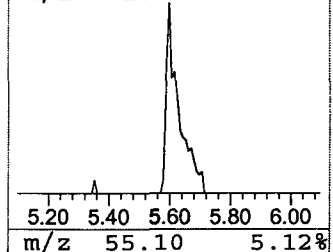
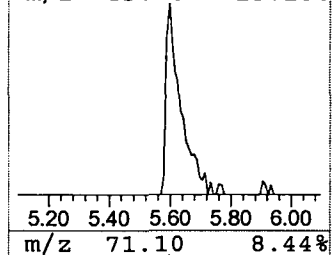
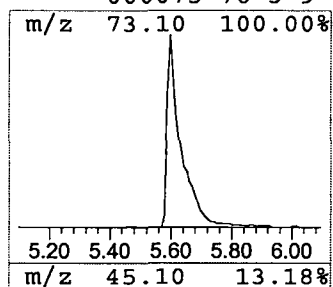
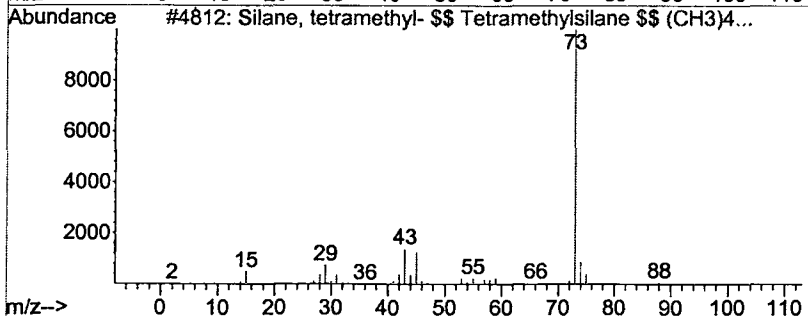
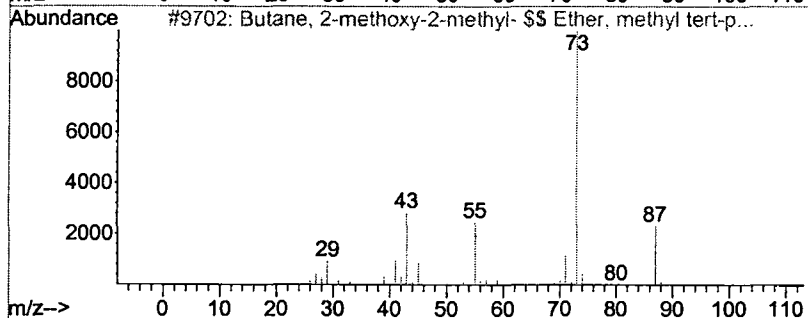
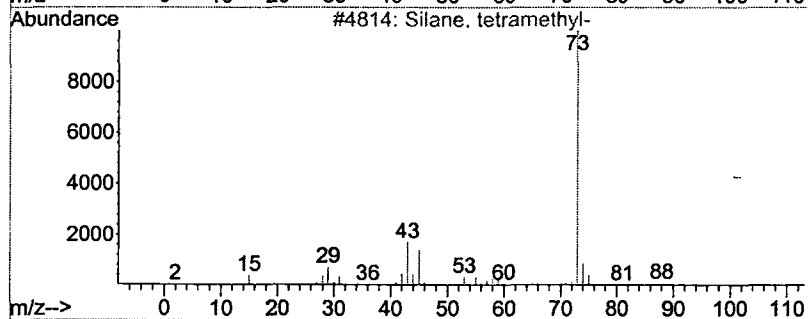
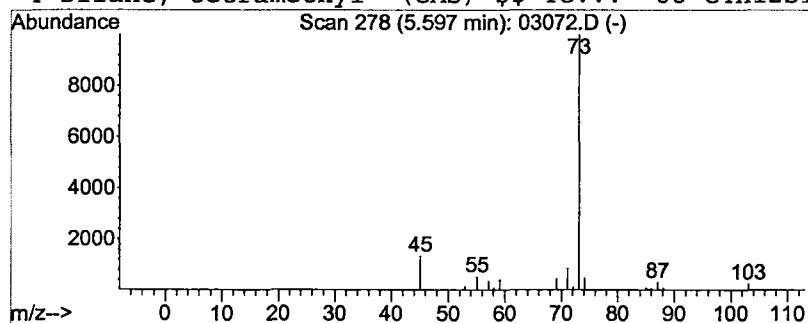
Title : Quantitation For Method 508gcscan

Library : C:\DATABASE\WILEY7N.L

\*\*\*\*\*  
Peak Number 2 Silane, tetramethyl- Concentration Rank 1

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 5.60 | 1.23 ug/L | 397878 | 1,4-Dichlorobenzene-d4 | 9.58 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Silane, tetramethyl-                  | 88  | C4H12Si | 000075-76-3 | 52   |
| 2    |    |   | Butane, 2-methoxy-2-methyl- \$\$ E... | 102 | C6H14O  | 000994-05-8 | 38   |
| 3    |    |   | Silane, tetramethyl- \$\$ Tetramet... | 88  | C4H12Si | 000075-76-3 | 9    |
| 4    |    |   | Silane, tetramethyl- (CAS) \$\$ Te... | 88  | C4H12Si | 000075-76-3 | 9    |



Operator ID: McLean Date Acquired: 1 Mar 2002 4:29 pm  
 Data File: C:\MSDCHEM\1\DATA\022802\03072.D  
 Name: 2/12/02 GC SCAN  
 Misc:  
 Method: C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)  
 Title: Quantitation For Method 508gcscan  
 Library Searched: C:\DATABASE\WILEY7N.L

| TIC Top Hit name     | RT   | EstConc  | Units | Response | --Internal Standard-- |      |         |      |
|----------------------|------|----------|-------|----------|-----------------------|------|---------|------|
|                      |      |          |       |          | #                     | RT   | Resp    | Conc |
| 2,2-dimethoxybutane  | 3.86 | 0.4 ug/L |       | 142212   | 1                     | 9.58 | 6471660 | 20.0 |
| Silane, tetramethyl- | 5.60 | 1.2 ug/L |       | 397878   | 1                     | 9.58 | 6471660 | 20.0 |

*Column bleed*