

User: Vinci, David L  
 Westchester Dept. of Labs & Research  
 Date: 04/18/2002 Time: 16:03:22

Sample: AE08066  
 Analysis: \$GCMS GCMS Scan For Unknowns  
 Units: ug  
 Started: 4/18/2002 16:03 Ended: 4/18/2002 16:03 Analyst: DLV  
 Page: 1

|   | Component Name          | Viol | Result | MDL |
|---|-------------------------|------|--------|-----|
| 1 | Other unknown compounds |      |        |     |
| 2 | Surr_2,4-DDD            |      | 78     | 5.0 |

**Comments for Sample AE08066 - Analysis \$GCMS**

Vestchester Dept. of Labs & Research

User: Vinci, David L

Date: 04-18-2002 Time: 16:03:38

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

The recovery for 1 of the 43 compounds in the LCS Standard was low.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020415\08066.D Vial: 23  
 Acq On : 16 Apr 2002 4:47 am Operator: Nefliu  
 Sample : sample Inst : Instrumen  
 Misc : Multiplr: 1.00  
 MS Integration Params: EVENTS.E  
 Quant Time: Apr 16 13:54:49 2002 Quant Results File: 041202SCAN.RE

Quant Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)  
 Title : 508 Modified GC/MS scan  
 Last Update : Tue Apr 16 11:14:47 2002  
 Response via : Initial Calibration  
 DataAcq Meth : 508SCAN

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.99  | 152  | 4936619  | 40.00 | ug/L  | 0.00      |
| 10) Napthalene-d8         | 13.48 | 136  | 18693992 | 40.00 | ug/L  | -0.01     |
| 17) Acenapthalene-d10     | 18.63 | 164  | 10950388 | 40.00 | ug/L  | -0.01     |
| 29) Phenanthranene-d10    | 23.02 | 188  | 16819273 | 40.00 | ug/L  | -0.01     |
| 37) Chrysene-d12          | 30.88 | 240  | 12576834 | 40.00 | ug/L  | -0.02     |
| 43) Perylene-d12          | 34.78 | 264  | 7896308  | 40.00 | ug/L  | -0.02     |

System Monitoring Compounds  
 27) TCMX 20.60 207 380299 6.26 ug/L 0.00  
 Spiked Amount 8.000 Recovery = 78.25%

Target Compounds Qvalue

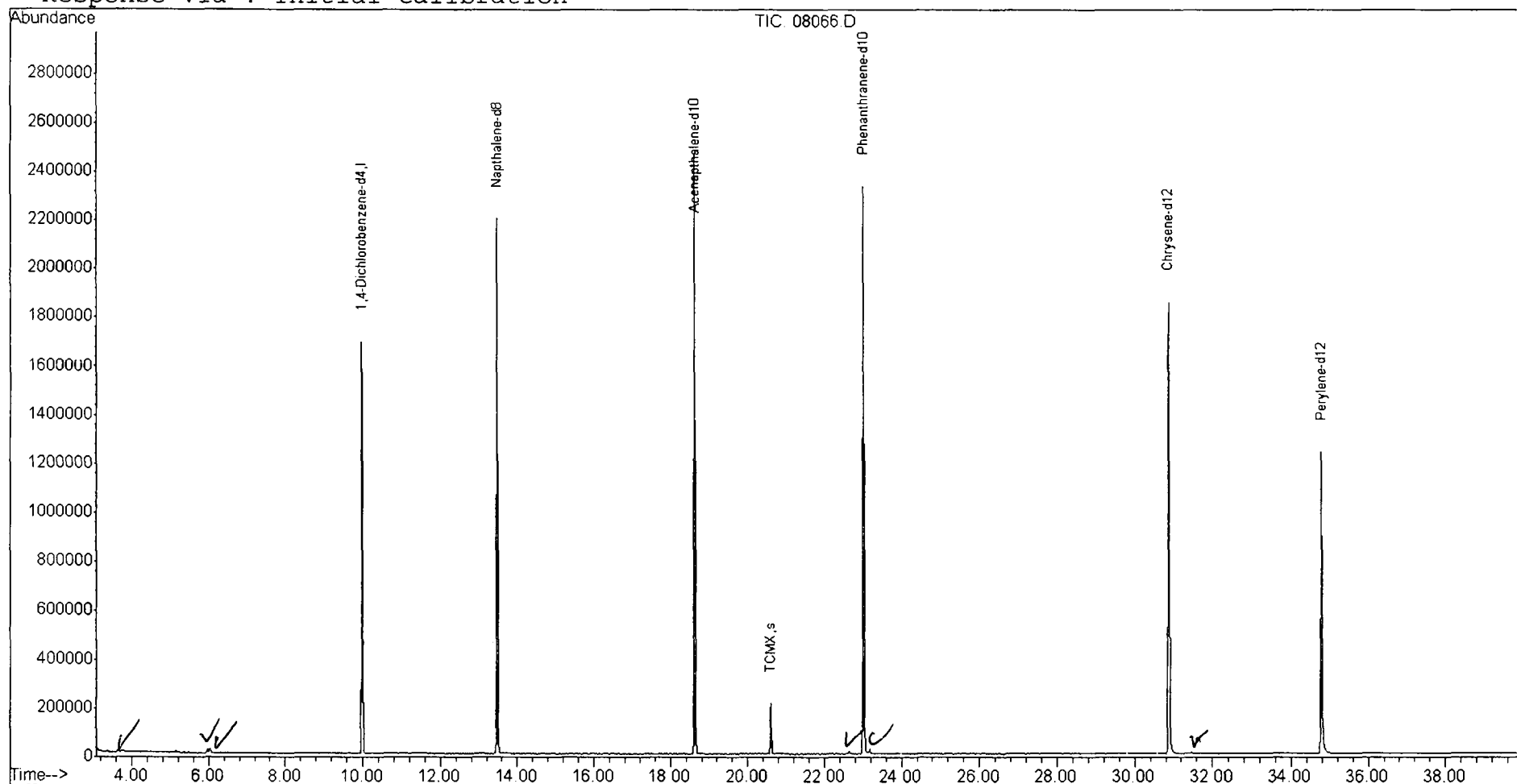
## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020415\08066.D  
Acq On : 16 Apr 2002 4:47 am  
Sample : sample  
Misc :  
MS Integration Params: EVENTS.E  
Quant Time: Apr 16 13:55 2002

Vial: 23  
Operator: Nefliu  
Inst : Instrumen  
Multiplr: 1.00

Quant Results File: 041202SCAN.RES

Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)  
Title : 508 Modified GC/MS scan  
Last Update : Tue Apr 16 11:14:47 2002  
Response via : Initial Calibration



## LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\020415\08066.D

Acq On : 16 Apr 2002 4:47 am

Sample : sample

Misc :

MS Integration Params: LSCINT.e

Vial: 23

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)

Title : 508 Modified GC/MS scan

Signal : TIC

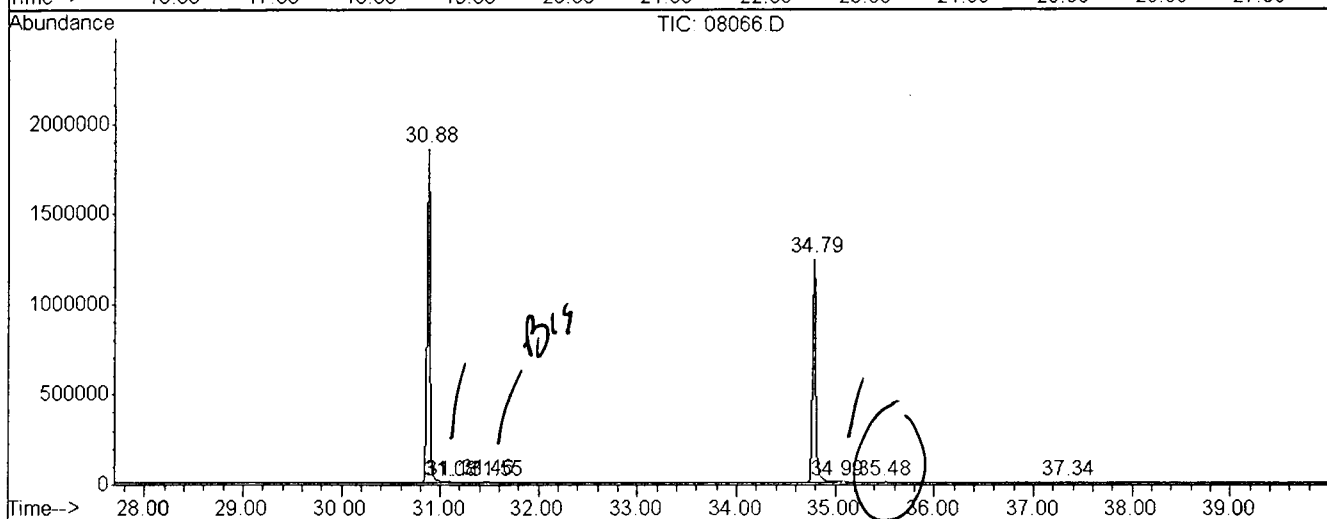
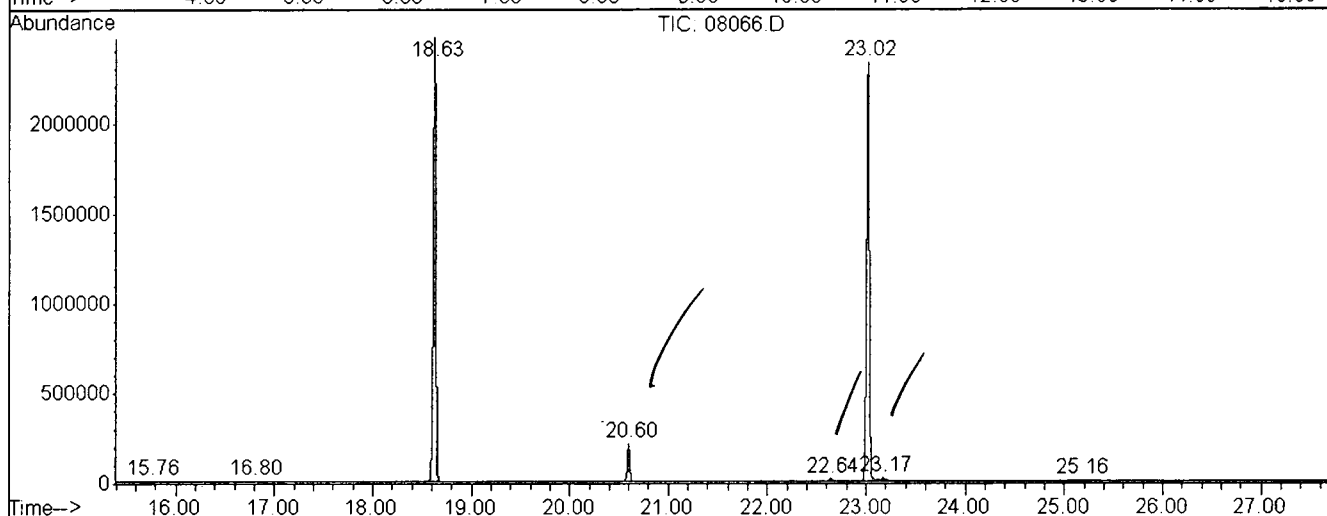
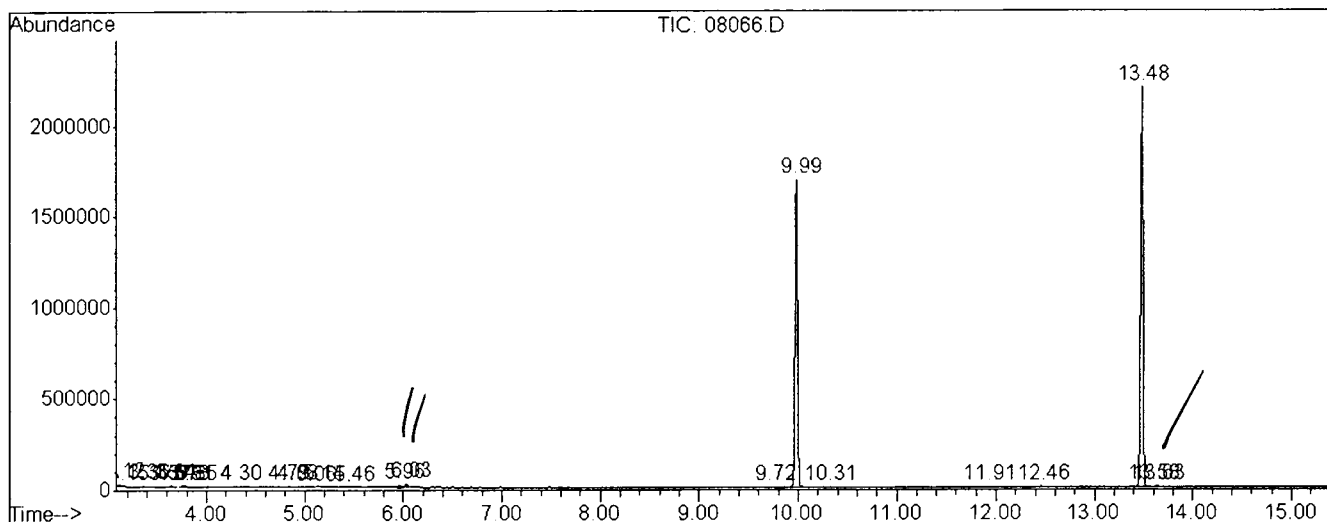
| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.120       | 3             | 7           | 11           | BV 2     | 10156          | 130892        | 0.30%           | 0.058%        |
| 2         | 3.150       | 11            | 12          | 16           | VV 3     | 2646           | 32077         | 0.07%           | 0.014%        |
| 3         | 3.361       | 41            | 48          | 55           | PV 3     | 6553           | 92735         | 0.21%           | 0.041%        |
| 4         | 3.573       | 80            | 84          | 86           | VV 4     | 1917           | 21640         | 0.05%           | 0.010%        |
| 5         | 3.643       | 92            | 96          | 101          | PV       | 9758           | 136016        | 0.31%           | 0.060%        |
| 6         | 3.772       | 101           | 118         | 123          | VV 3     | 5204           | 206621        | 0.47%           | 0.091%        |
| 7         | 3.814       | 123           | 125         | 128          | VV 4     | 2264           | 29173         | 0.07%           | 0.013%        |
| 8         | 3.849       | 128           | 131         | 143          | VV 7     | 1676           | 31938         | 0.07%           | 0.014%        |
| 9         | 4.301       | 204           | 208         | 211          | VV 3     | 2204           | 29234         | 0.07%           | 0.013%        |
| 10        | 4.789       | 288           | 291         | 296          | PV 4     | 2367           | 37907         | 0.09%           | 0.017%        |
| 11        | 4.883       | 301           | 307         | 312          | VV 6     | 2410           | 52416         | 0.12%           | 0.023%        |
| 12        | 5.059       | 334           | 337         | 343          | VV 5     | 2005           | 33045         | 0.07%           | 0.015%        |
| 13        | 5.136       | 346           | 350         | 362          | VV 7     | 6722           | 139223        | 0.31%           | 0.062%        |
| 14        | 5.459       | 403           | 405         | 407          | VV 3     | 1767           | 15009         | 0.03%           | 0.007%        |
| 15        | 5.964       | 486           | 491         | 497          | PV       | 14262          | 262497        | 0.59%           | 0.116%        |
| 16        | 6.029       | 497           | 502         | 515          | VV       | 17846          | 357585        | 0.81%           | 0.158%        |
| 17        | 9.719       | 1126          | 1130        | 1132         | PV 3     | 1855           | 17681         | 0.04%           | 0.008%        |
| 18        | 9.989       | 1167          | 1176        | 1195         | PV       | 1652264        | 28335493      | 64.09%          | 12.518%       |
| 19        | 10.312      | 1227          | 1231        | 1235         | PV 3     | 1465           | 21782         | 0.05%           | 0.010%        |
| 20        | 11.910      | 1486          | 1503        | 1509         | VV 5     | 2619           | 56017         | 0.13%           | 0.025%        |
| 21        | 12.457      | 1590          | 1596        | 1600         | VV 2     | 3096           | 47442         | 0.11%           | 0.021%        |
| 22        | 13.485      | 1755          | 1771        | 1786         | PV       | 2181963        | 37783065      | 85.46%          | 16.692%       |
| 23        | 13.585      | 1786          | 1788        | 1790         | VV       | 1501           | 13401         | 0.03%           | 0.006%        |
| 24        | 13.632      | 1790          | 1796        | 1802         | VV 2     | 4713           | 87373         | 0.20%           | 0.039%        |
| 25        | 15.759      | 2150          | 2158        | 2162         | PV 2     | 2507           | 51394         | 0.12%           | 0.023%        |
| 26        | 16.799      | 2326          | 2335        | 2343         | VV 4     | 3377           | 72251         | 0.16%           | 0.032%        |
| 27        | 18.632      | 2636          | 2647        | 2665         | PV       | 2482261        | 44213456      | 100.00%         | 19.532%       |
| 28        | 20.600      | 2974          | 2982        | 2991         | PV       | 208665         | 3538123       | 8.00%           | 1.563%        |
| 29        | 22.645      | 3319          | 3330        | 3338         | PV 3     | 11851          | 241194        | 0.55%           | 0.107%        |
| 30        | 23.021      | 3381          | 3394        | 3413         | PV 2     | 2307951        | 43899744      | 99.29%          | 19.394%       |
| 31        | 23.174      | 3413          | 3420        | 3430         | VV       | 16033          | 368733        | 0.83%           | 0.163%        |
| 32        | 25.160      | 3749          | 3758        | 3764         | VV       | 2059           | 43396         | 0.10%           | 0.019%        |
| 33        | 30.882      | 4720          | 4732        | 4764         | PV 2     | 1814314        | 37831125      | 85.56%          | 16.713%       |
| 34        | 31.076      | 4764          | 4765        | 4769         | VV 3     | 4020           | 56532         | 0.13%           | 0.025%        |
| 35        | 31.106      | 4769          | 4770        | 4776         | VV 3     | 3274           | 70017         | 0.16%           | 0.031%        |
| 36        | 31.458      | 4822          | 4830        | 4844         | VV 4     | 6419           | 227247        | 0.51%           | 0.100%        |
| 37        | 31.552      | 4844          | 4846        | 4848         | VV       | 2122           | 20420         | 0.05%           | 0.009%        |

|    |        |      |      |      |      |         |          |        |         |
|----|--------|------|------|------|------|---------|----------|--------|---------|
| 38 | 34.784 | 5374 | 5396 | 5430 | VV   | 1211969 | 27640500 | 62.52% | 12.211% |
| 39 | 34.995 | 5430 | 5432 | 5437 | VV 3 | 4395    | 79538    | 0.18%  | 0.035%  |
| 40 | 35.483 | 5510 | 5515 | 5517 | VV   | 1557    | 19847    | 0.04%  | 0.009%  |
| 41 | 37.340 | 5826 | 5831 | 5835 | PV 2 | 1363    | 16664    | 0.04%  | 0.007%  |

Sum of corrected areas: 226360446

# LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\020415\08066.D  
 Operator : Nefliu  
 Acquired : 16 Apr 2002 4:47 am using AcqMethod 508SCAN  
 Instrument : Instrumen  
 Sample Name: sample  
 Misc Info :  
 Vial Number: 23  
 Quant File :041202SCAN.RES (Chemstation Integrator)



# Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020415\08066.D  
 Acq On : 16 Apr 2002 4:47 am  
 Sample : sample  
 Misc :  
 MS Integration Params: LSCINT.e

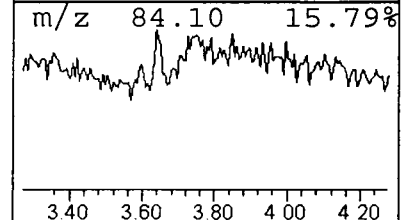
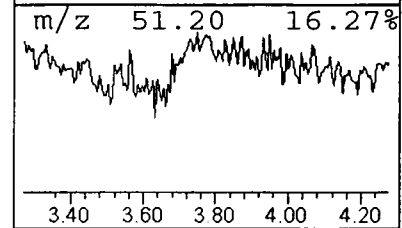
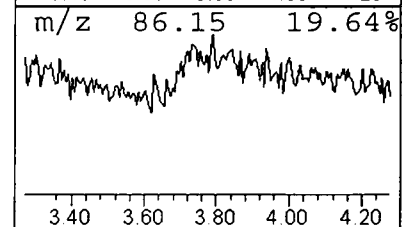
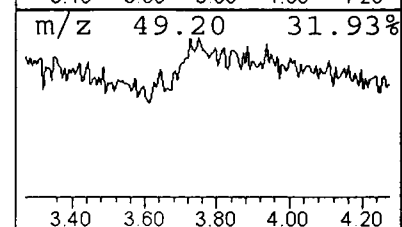
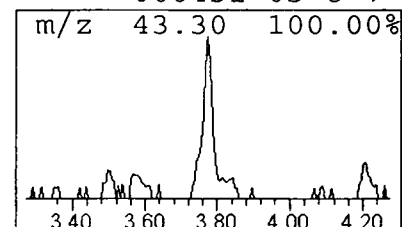
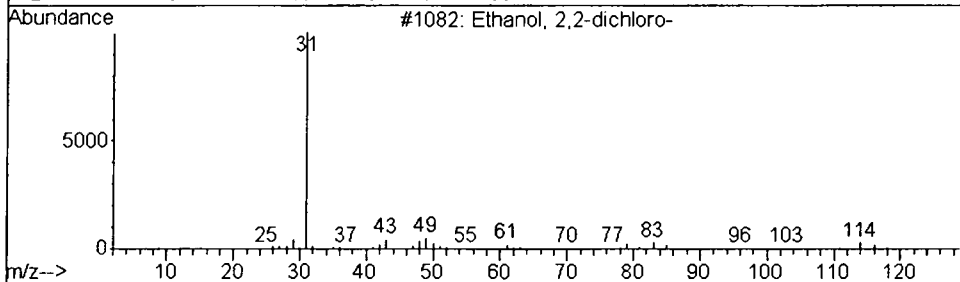
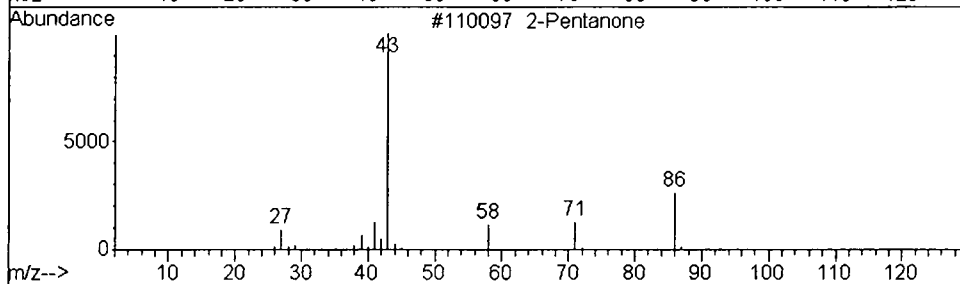
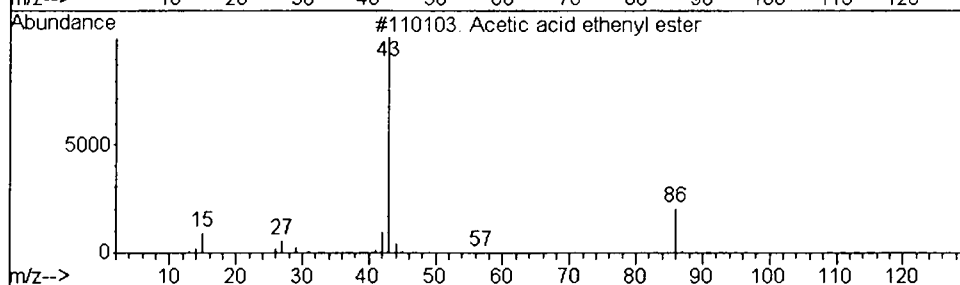
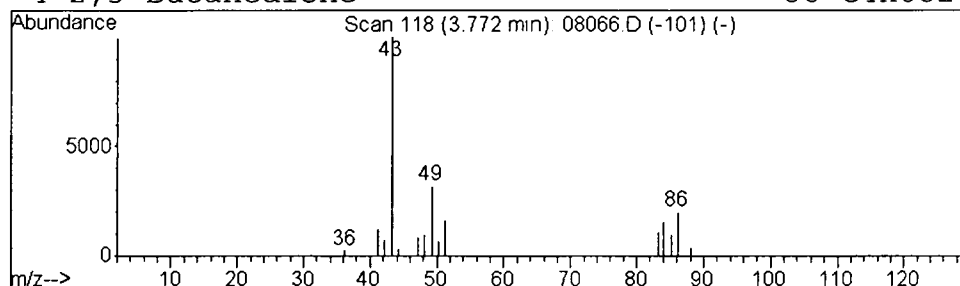
Vial: 23  
 Operator: Nefliu  
 Inst : Instrumen  
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)  
 Title : 508 Modified GC/MS scan  
 Library : C:\DATABASE\NIST98.L

\*\*\*\*\*  
 Peak Number 1 Acetic acid ethenyl ester Concentration Rank 4

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 3.78 | 0.29 ug/L | 206621 | 1,4-Dichlorobenzene-d4 | 9.99 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------------|-----|----------|-------------|------|
| 1    |    |   | Acetic acid ethenyl ester | 86  | C4H6O2   | 000108-05-4 | 9    |
| 2    |    |   | 2-Pentanone               | 86  | C5H10O   | 000107-87-9 | 9    |
| 3    |    |   | Ethanol, 2,2-dichloro-    | 114 | C2H4Cl2O | 000598-38-9 | 9    |
| 4    |    |   | 2,3-Butanedione           | 86  | C4H6O2   | 000431-03-8 | 7    |



## Library Search Compound Report

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Acq On : 16 Apr 2002 4:47 am  
Sample : sample  
Misc :  
MS Integration Params: LSCINT.e

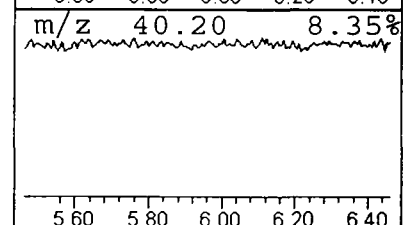
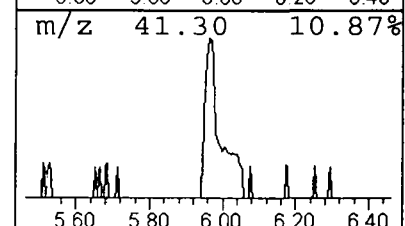
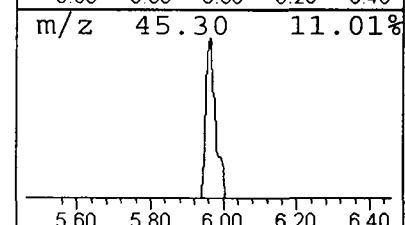
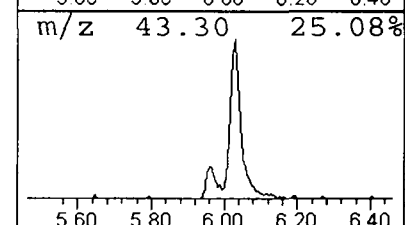
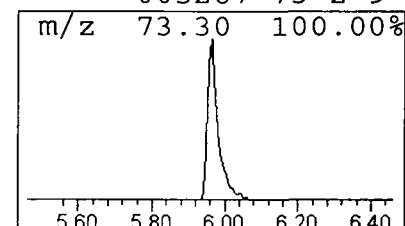
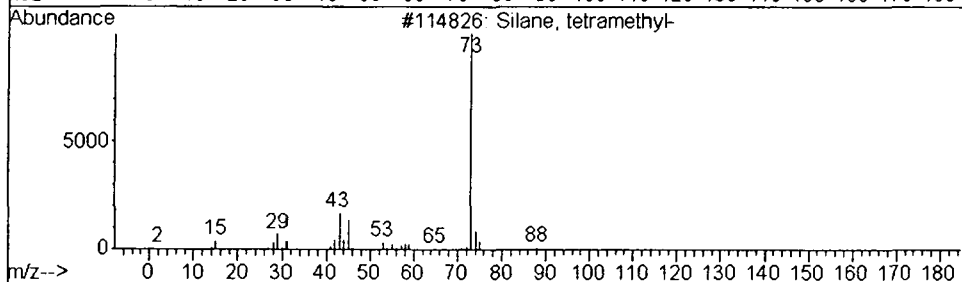
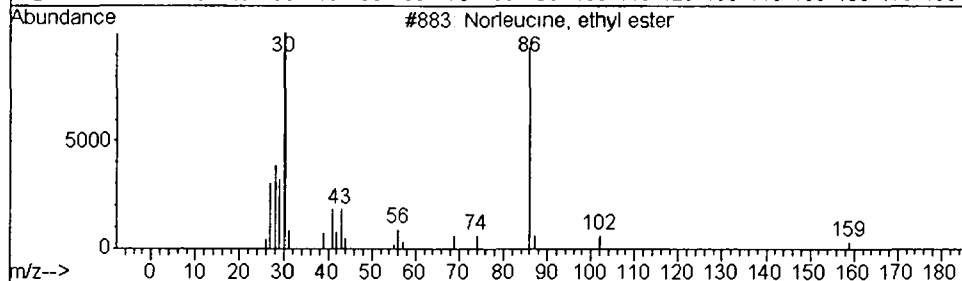
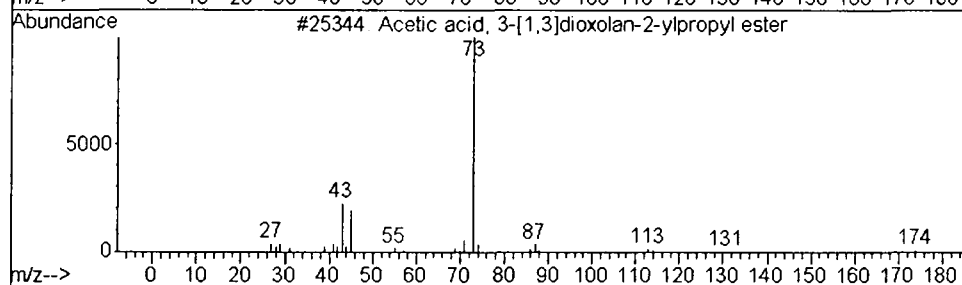
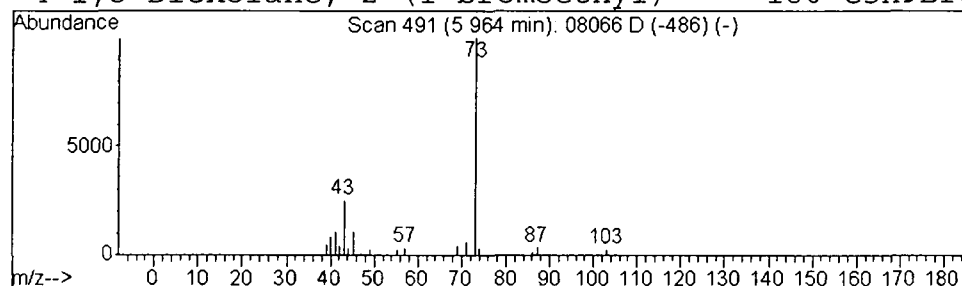
Vial: 23  
Operator: Nefliu  
Inst : Instrumen  
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)  
Title : 508 Modified GC/MS scan  
Library : C:\DATABASE\NIST98.L

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

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 5.96 | 0.37 ug/L | 262497 | 1,4-Dichlorobenzene-d4 | 9.99 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Acetic acid, 3-[1,3]dioxolan-2-y... | 174 | C8H14O4  | 1000186-02-3 | 28   |
| 2    |    |   | Norleucine, ethyl ester             | 159 | C8H17NO2 | 006141-42-0  | 9    |
| 3    |    |   | Silane, tetramethyl-                | 88  | C4H12Si  | 000075-76-3  | 9    |
| 4    |    |   | 1,3-Dioxolane, 2-(1-bromoethyl)-    | 180 | C5H9BrO2 | 005267-73-2  | 9    |



## Library Search Compound Report

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Acq On : 16 Apr 2002 4:47 am  
Sample : sample  
Misc :  
MS Integration Params: LSCINT.e

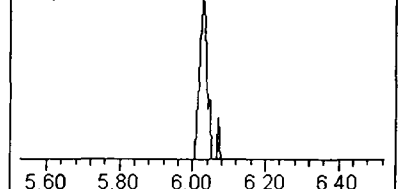
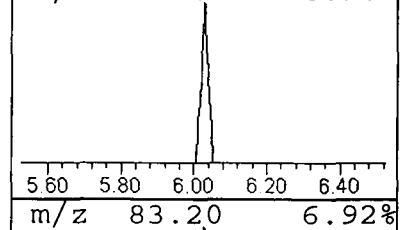
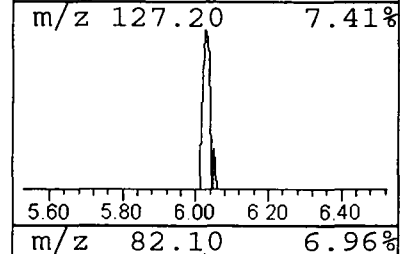
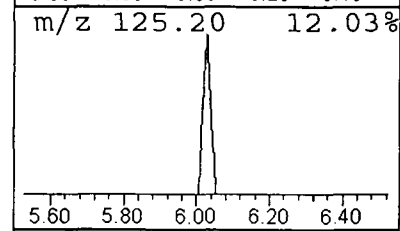
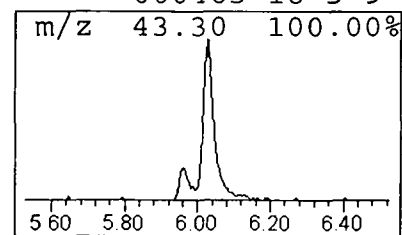
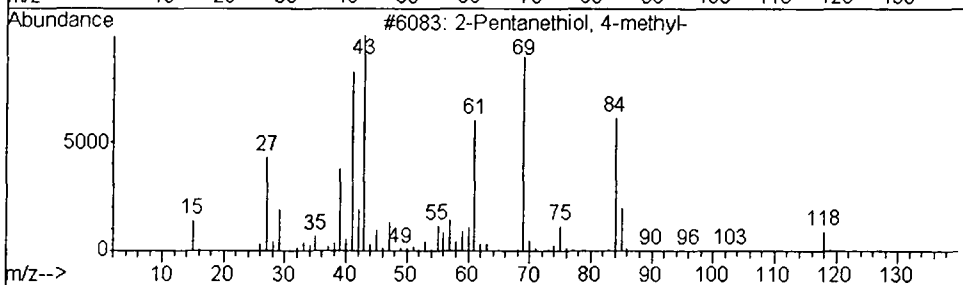
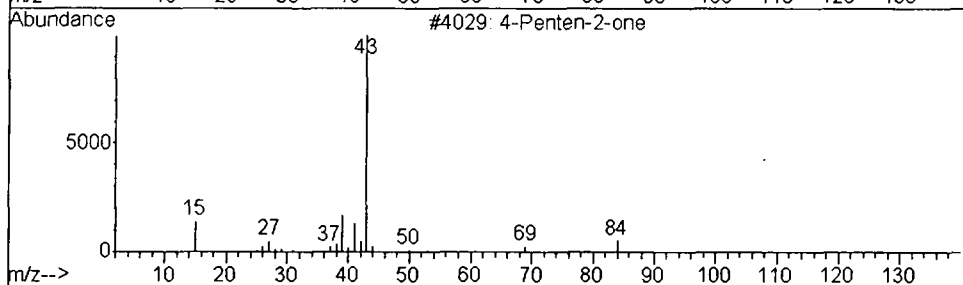
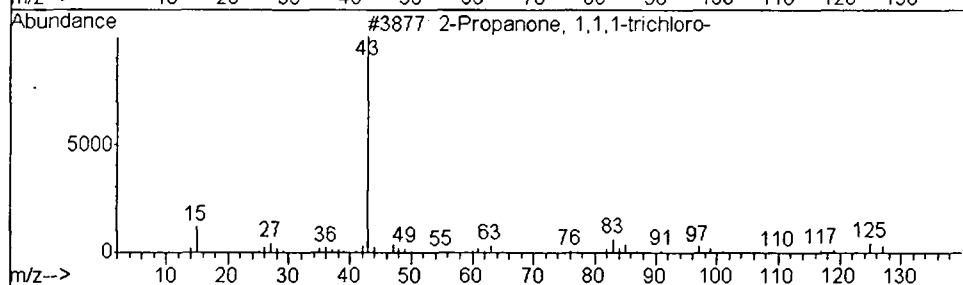
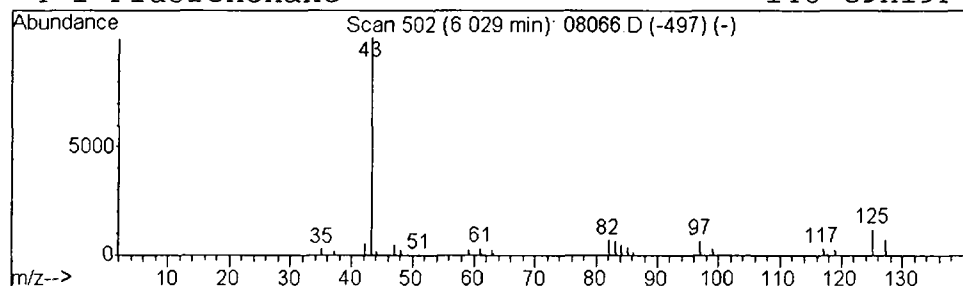
Vial: 23  
Operator: Nefliu  
Inst : Instrumen  
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)  
Title : 508 Modified GC/MS scan  
Library : C:\DATABASE\NIST98.L

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

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 6.03 | 0.50 ug/L | 357585 | 1,4-Dichlorobenzene-d4 | 9.99 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Propanone, 1,1,1-trichloro- | 160 | C3H3Cl3O | 000918-00-3 | 72   |
| 2    |    |   | 4-Penten-2-one                | 84  | C5H8O    | 013891-87-7 | 9    |
| 3    |    |   | 2-Pentanethiol, 4-methyl-     | 118 | C6H14S   | 001639-05-0 | 9    |
| 4    |    |   | 1-Fluorononane                | 146 | C9H19F   | 000463-18-3 | 9    |



## Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020415\08066.D  
Acq On : 16 Apr 2002 4:47 am  
Sample : sample  
Misc :  
MS Integration Params: LSCINT.e

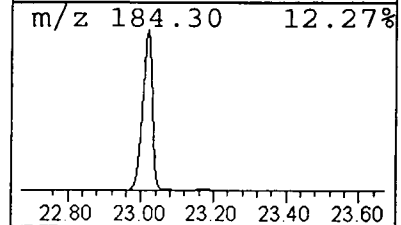
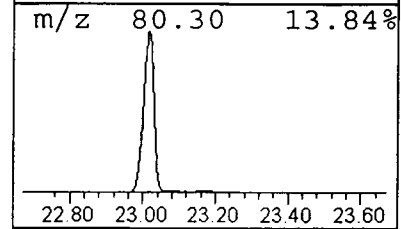
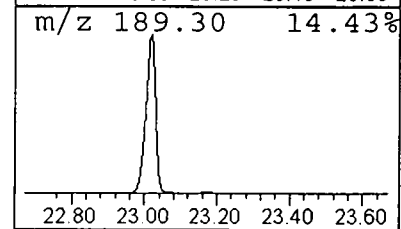
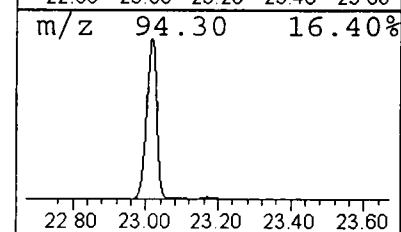
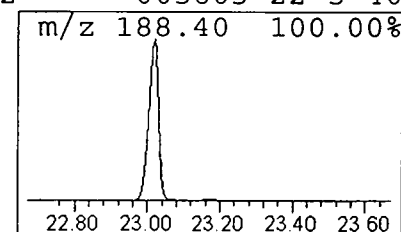
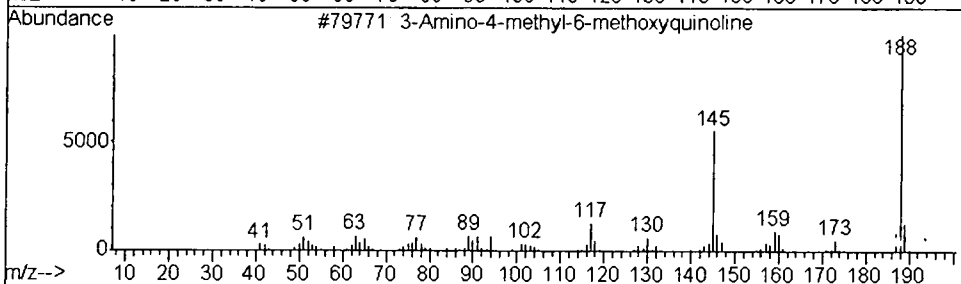
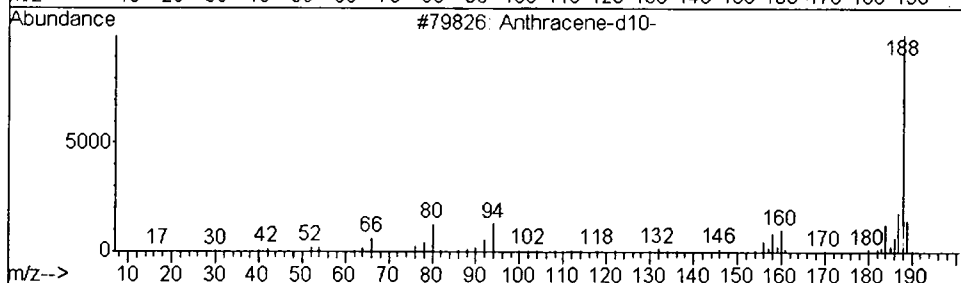
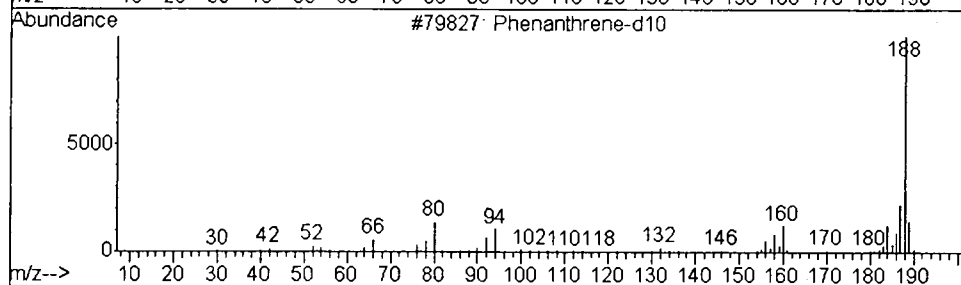
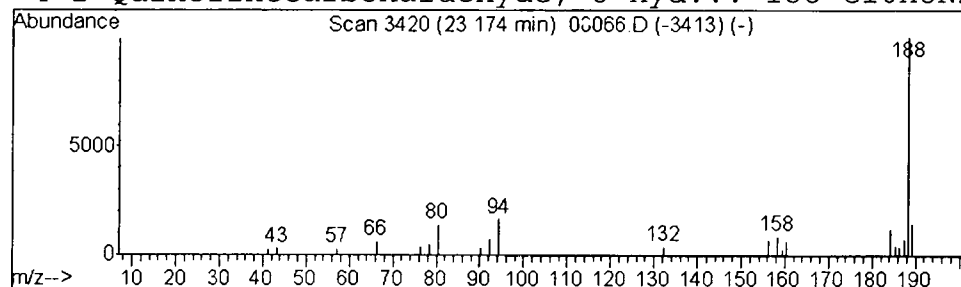
Vial: 23  
Operator: Nefliu  
Inst : Instrumen  
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)  
Title : 508 Modified GC/MS scan  
Library : C:\DATABASE\NIST98.L

\*\*\*\*\*  
Peak Number 5 Phenanthrene-d10 Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 23.17 | 0.34 ug/L | 368733 | Phenanthranene-d10 | 23.02 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Phenanthrene-d10                    | 188 | C14D10    | 001517-22-2  | 90   |
| 2    |    | Anthracene-d10-                     | 188 | C14D10    | 001719-06-8  | 90   |
| 3    |    | 3-Amino-4-methyl-6-methoxyquinoline | 188 | C11H12N2O | 1000213-71-3 | 40   |
| 4    |    | 2-Quinolinecarboxaldehyde, 8-hyd... | 188 | C10H8N2O2 | 005603-22-5  | 40   |



# Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020415\08066.D  
 Acq On : 16 Apr 2002 4:47 am  
 Sample : sample  
 Misc :  
 MS Integration Params: LSCINT.e

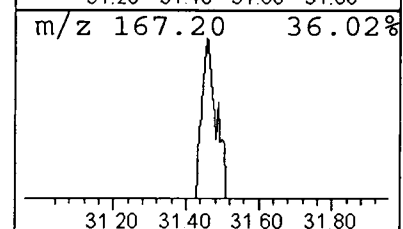
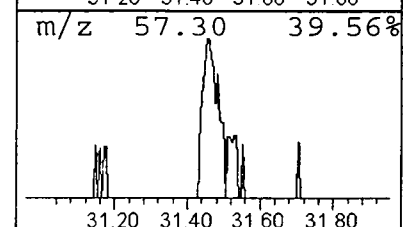
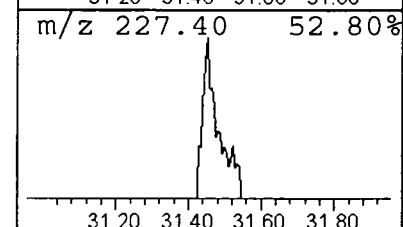
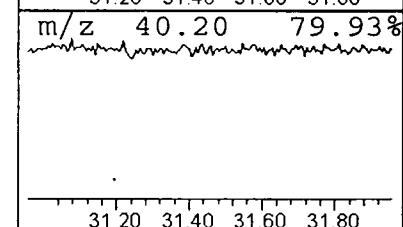
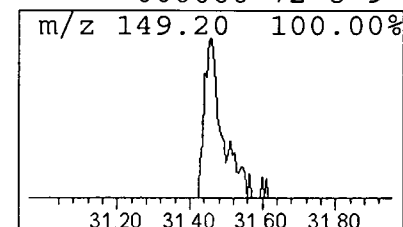
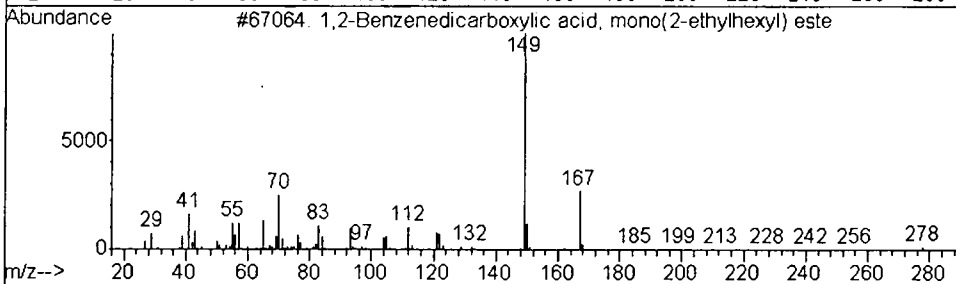
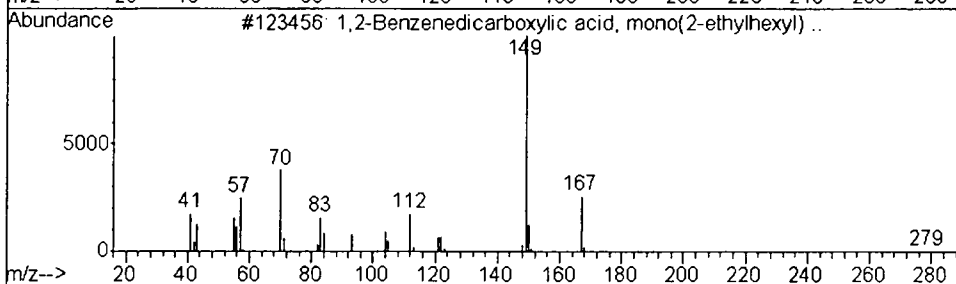
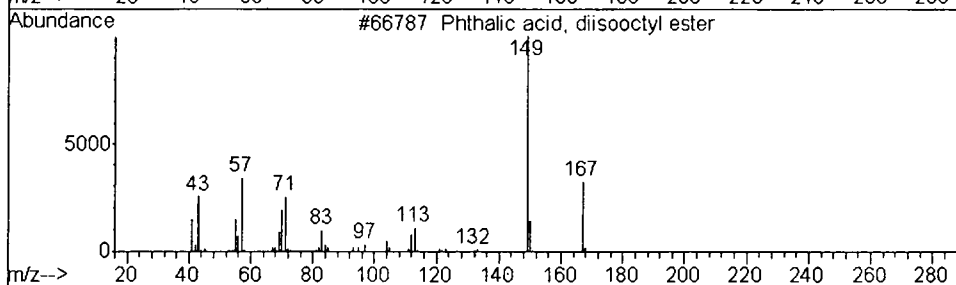
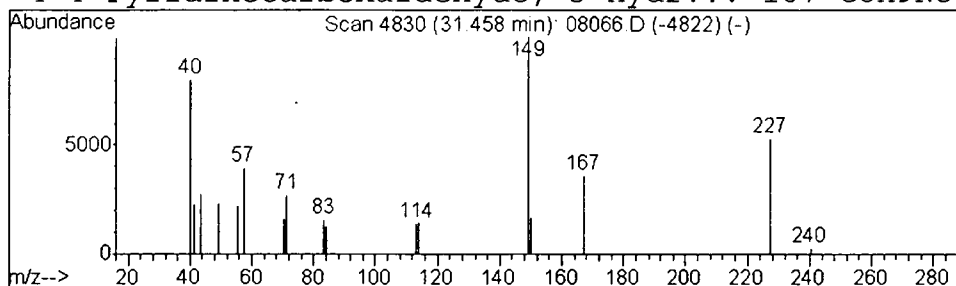
Vial: 23  
 Operator: Nefliu  
 Inst : Instrumen  
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\041202SCAN.M (Chemstation Integrator)  
 Title : 508 Modified GC/MS scan  
 Library : C:\DATABASE\NIST98.L

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 Peak Number 6 Phthalic acid, diisooctyl e... Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 31.46 | 0.24 ug/L | 227247 | Chrysene-d12     | 30.88 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Phthalic acid, diisooctyl ester     | 390 | C24H38O4 | 001330-91-2 | 38   |
| 2    |    |   | 1,2-Benzenedicarboxylic acid, mo... | 278 | C16H22O4 | 004376-20-9 | 17   |
| 3    |    |   | 1,2-Benzenedicarboxylic acid, mo... | 278 | C16H22O4 | 004376-20-9 | 12   |
| 4    |    |   | 4-Pyridinecarboxaldehyde, 3-hydr... | 167 | C8H9NO3  | 000066-72-8 | 9    |



## Tentatively Identified Compound (LSC) summary

Operator ID: Nefliu Date Acquired: 16 Apr 2002 4:47 am  
Data File: C:\MSDCHEM\1\DATA\020415\08066.D  
Name: sample  
Misc:  
Method: C:\MSDCHEM\1\METHODS\041202SCAN.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 |
| Acetic acid ethen...   | 3.78  | 0.3     | ug/L  | 206621   | 1                     | 9.99  | 28335500 | 40.0 |
| Acetic acid, 3-[1...   | 5.96  | 0.4     | ug/L  | 262497   | 1                     | 9.99  | 28335500 | 40.0 |
| ✓ 2-Propanone, 1,1,... | 6.03  | 0.5     | ug/L  | 357585   | 1                     | 9.99  | 28335500 | 40.0 |
| 2,5-Dihydrophosph...   | 22.64 | 0.2     | ug/L  | 241194   | 4                     | 23.02 | 43899700 | 40.0 |
| ✓ Phenanthrene-d10     | 23.17 | 0.3     | ug/L  | 368733   | 4                     | 23.02 | 43899700 | 40.0 |
| Phthalic acid, di...   | 31.46 | 0.2     | ug/L  | 227247   | 5                     | 30.88 | 37831100 | 40.0 |