User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 03/14/2002 Time: 16:52:34

Sample: AE01047
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 3/14/02 16:52 Ended: 3/14/02 16:52 Analyst: DLV
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | Other unknown compounds | | . | | |
| 2 | Surr_2,4-DDD | | 103 | | 5.0 |

**Comments for Sample AE01047 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 03-14-2002 Time: 16:52:37

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 below its acceptance range. This sample was reextracted and reanalyzed due to low recoveries in the original LCS Standard. The Surrogate Standard was acceptable both times. This sample will receive a discount.

Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D  Vial: 16
Acq On : 28 Feb 2002 11:15 pm  Operator: McLean
Sample : GC MS SCAN 2/27  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Mar 13 11:02:31 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

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.58 | 150 | 1021269 | 20.00 | ug/L | 0.00 |
| 10) Naphthalene-d8 | 13.05 | 136 | 2736637 | 20.00 | ug/L | 0.00 |
| 17) Acenaphthene-d10 | 18.16 | 164 | 1516241 | 20.00 | ug/L | 0.00 |
| 29) Phenanthrene-d10 | 22.52 | 188 | 2346425 | 20.00 | ug/L | 0.00 |
| 38) Chrysene-d12 | 30.33 | 240 | 2165003 | 20.00 | ug/L | -0.03 |
| 44) Perylene-d12 | 34.21 | 264 | 1439112 | 20.00 | ug/L | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 37) 2,4-ddd surr | 27.46 | 235 | 191457 | 5.14 | ug/L | 0.00 |
| Spiked Amount 5.000 | | | Recovery = 102.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-nitroso-dimethyl amine | 0.00 | 74 | 0 | N.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 | 0.00 | 149 | 0 | N.D. | | |
| 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. | | |
| 34) Anthracene | 0.00 | 178 | 0 | N.D. | | |
| 35) Di-n-butylphthalate | 24.67 | 149 | 4417 | 0.03 | ug/L | 79 |
| 36) Fluoranthene | 0.00 | 202 | 0 | N.D. | | |
| 39) Pyrene | 0.00 | 202 | 0 | N.D. | | |
| 40) Butylbenzylphthalate | 0.00 | 149 | 0 | N.D. | | |
| 41) Benzo (a) antracene | 0.00 | 228 | 0 | N.D. d | | |
| 42) Bis (2-ethylhexyl) phthala | 30.94 | 149 | 12460 | 0.13 | ug/L | 85 |
| 43) Chrysene | 0.00 | 228 | 0 | N.D. d | | |
| 45) Di-n-Octylphthalate | 0.00 | 149 | 0 | N.D. | | |
| 46) Benzo (b) fluoranthene | 0.00 | 252 | 0 | N.D. | | |

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

Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D Vial: 16
Acq On : 28 Feb 2002 11:15 pm Operator: McLean
Sample : GC MS SCAN 2/27 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Mar 13 11:02:31 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

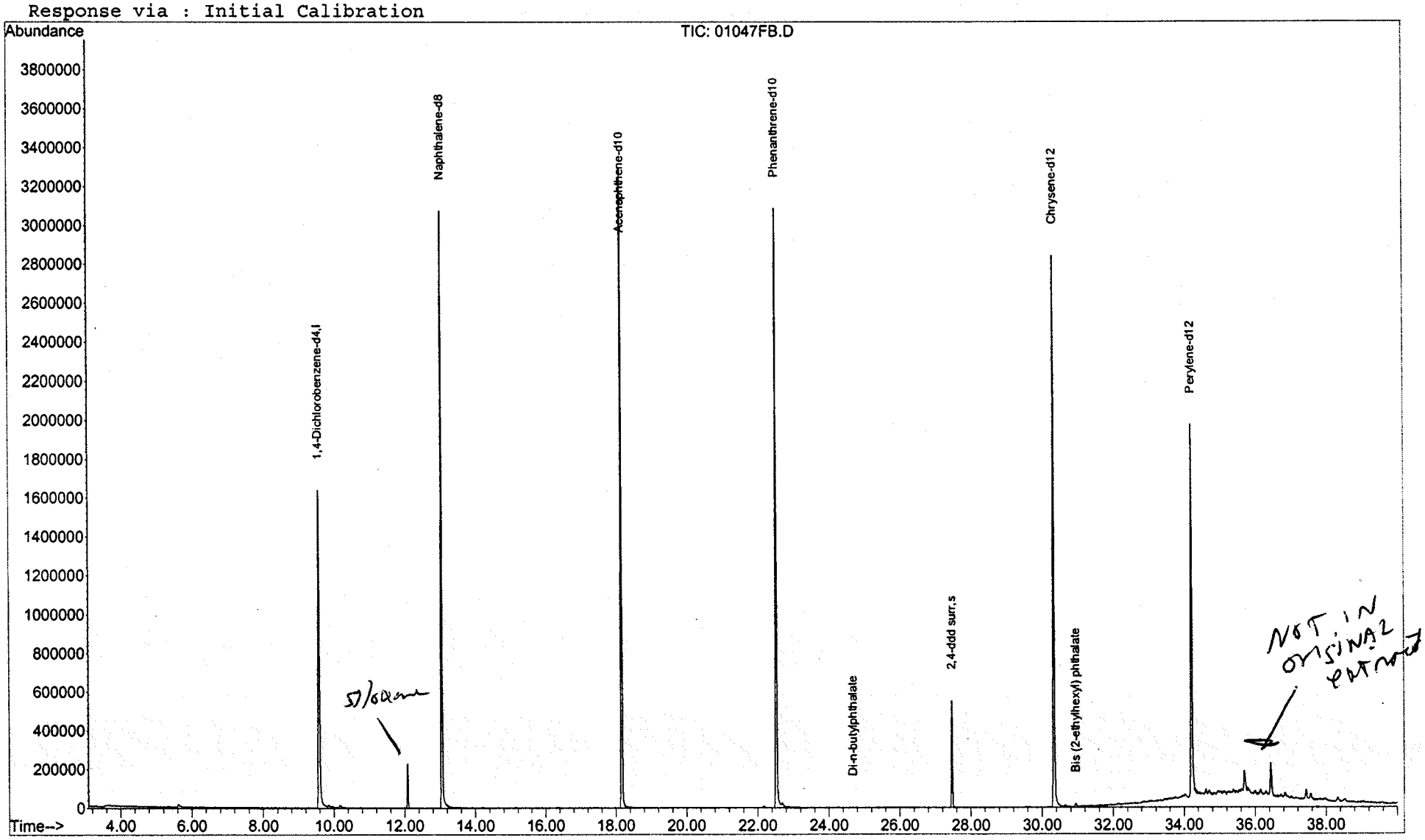
| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 47) Benzo (k) fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 48) Benzo (a) pyrene | 0.00 | 252 | 0 | N.D. | d |
| 49) Indeno (1,2,3-cd) pyrene | 0.00 | 276 | 0 | N.D. | |
| 50) Dibenz (a,h) anthracene | 0.00 | 278 | 0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

(#) = qualifier out of range (m) = manual integration
01047FB.D 5080202.M Wed Mar 13 11:03:22 2002 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D Vial: 16
Acq On : 28 Feb 2002 11:15 pm Operator: McLean
Sample : GC MS SCAN 2/27 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Mar 13 11:03 2002 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



Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D  Vial: 16
Acq On : 28 Feb 2002 11:15 pm  Operator: McLean
Sample : GC MS SCAN 2/27  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

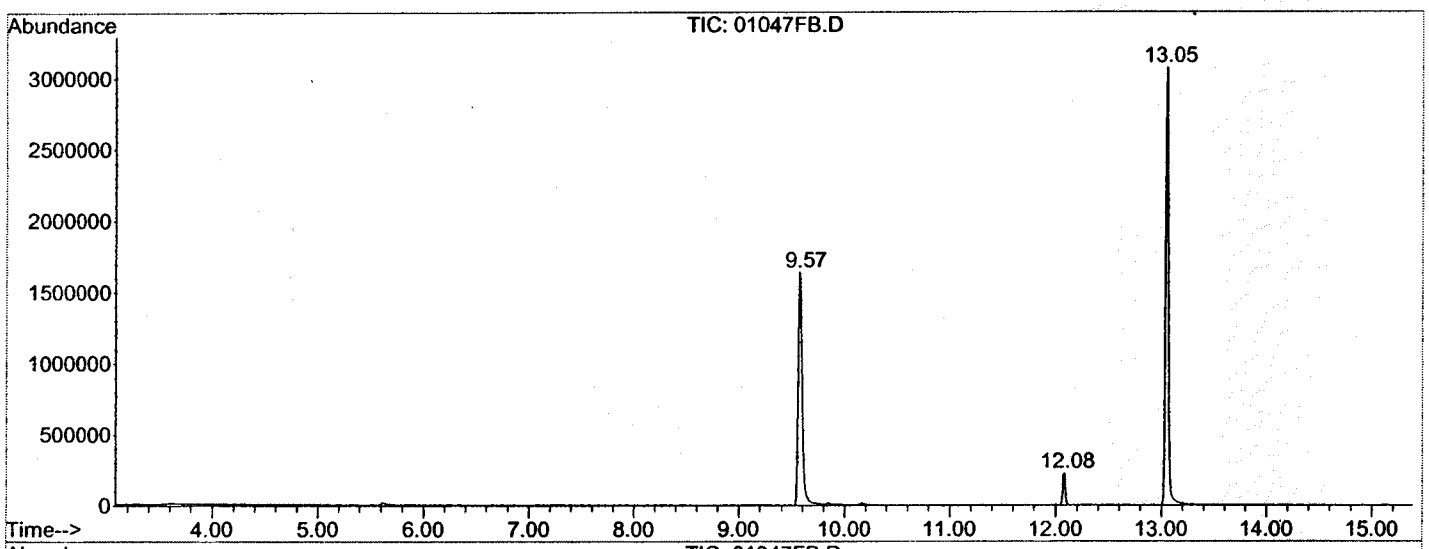
If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 9.570 | 711 | 716 | 741 | rBV | 1638017 | 4302381 | 67.10% | 11.785% |
| 2 | 12.083 | 988 | 993 | 999 | rVB | 226890 | 377849 | 5.89% | 1.035% |
| 3 | 13.053 | 1095 | 1100 | 1115 | rBV | 3074611 | 5876925 | 91.66% | 16.098% |
| 4 | 18.160 | 1657 | 1663 | 1673 | rBV | 3293013 | 6271214 | 97.81% | 17.178% |
| 5 | 22.523 | 2138 | 2144 | 2158 | rBV2 | 3086440 | 6411891 | 100.00% | 17.564% |
| 6 | 27.457 | 2684 | 2688 | 2698 | rBV | 549820 | 1006414 | 15.70% | 2.757% |
| 7 | 30.332 | 2998 | 3005 | 3019 | rBV2 | 2840923 | 6324870 | 98.64% | 17.325% |
| 8 | 34.205 | 3425 | 3432 | 3441 | rBV2 | 1919868 | 4880156 | 76.11% | 13.368% |
| 9 | 35.683 | 3591 | 3595 | 3604 | rVB2 | 101482 | 298183 | 4.65% | 0.817% |
| 10 | 36.427 | 3672 | 3677 | 3686 | rVB2 | 170820 | 471699 | 7.36% | 1.292% |
| 11 | 37.416 | 3782 | 3786 | 3795 | rVV6 | 45846 | 111974 | 1.75% | 0.307% |
| 12 | 37.543 | 3797 | 3800 | 3809 | rVB9 | 31013 | 106344 | 1.66% | 0.291% |
| 13 | 38.314 | 3880 | 3885 | 3895 | rVB10 | 19676 | 66481 | 1.04% | 0.182% |

Sum of corrected areas: 36506381

File : C:\MSDCHEM\1\DATA\022802\01047FB.D
Operator : McLean
Acquired : 28 Feb 2002 11:15 pm using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: GC MS SCAN 2/27
Misc Info :
Vial Number: 16
Quant File :5080202.RES (RTE Integrator)



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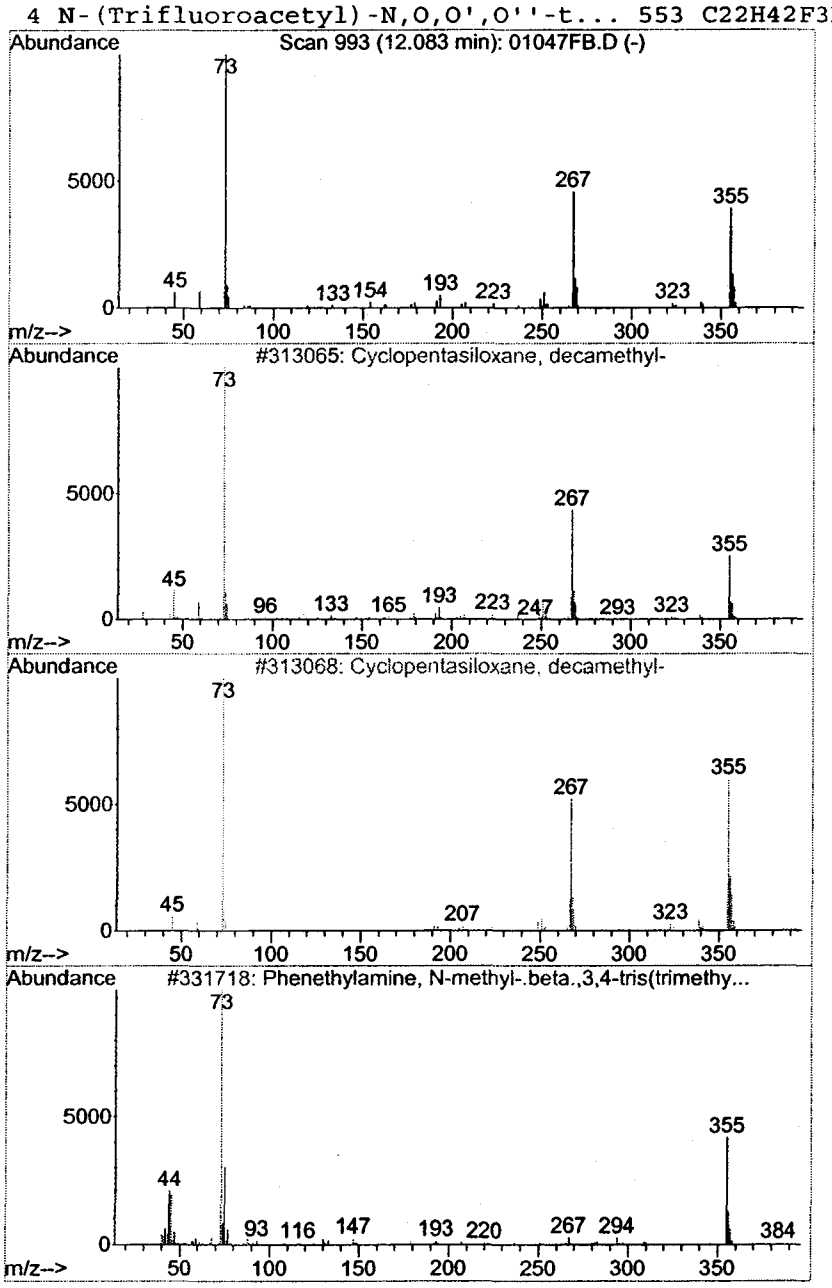
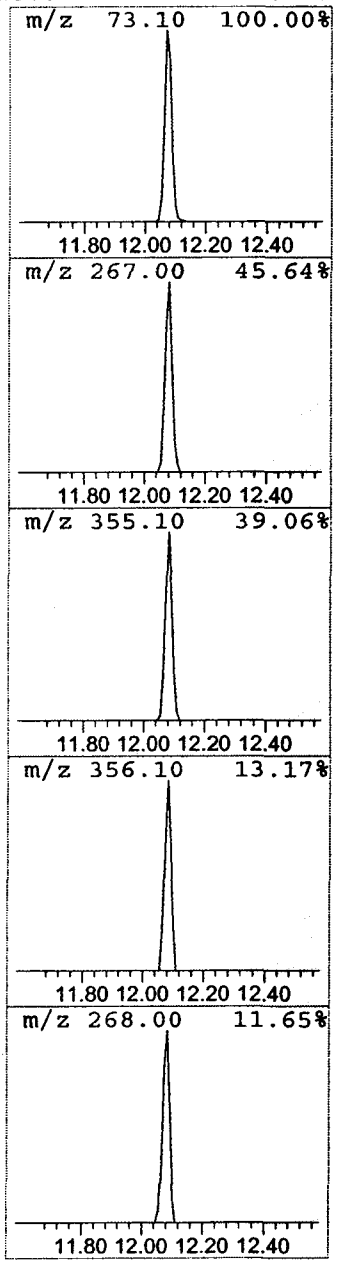
Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D          Vial: 16
Acq On    : 28 Feb 2002  11:15 pm                    Operator: McLean
Sample    : GC MS SCAN 2/27                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title        : Quantitation For Method 508gcscan
Library      : C:\DATABASE\WILEY7N.L
*********************************************************************
Peak Number  1  Cyclopentasiloxane, decamet...  Concentration Rank  2
```

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.08 | 1.29 ug/L | 377849 | Naphthalene-d8 | 13.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentasiloxane, decamethyl- | 370 | C10H30O5Si5 | 000541-02-6 | 68 |
| 2 | Cyclopentasiloxane, decamethyl- | 370 | C10H30O5Si5 | 000541-02-6 | 64 |
| 3 | Phenethylamine, N-methyl-.beta.,... | 399 | C18H37NO3Si3 | 010538-85-9 | 43 |
| 4 | N-(Trifluoroacetyl)-N,O,O',O''-t... | 553 | C22H42F3NO4Si4 | 000000-00-0 | 43 |



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Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D          Vial: 16
Acq On    : 28 Feb 2002  11:15 pm                    Operator: McLean
Sample    : GC MS SCAN 2/27                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title        : Quantitation For Method 508gcscan
Library      : C:\DATABASE\WILEY7N.L
```
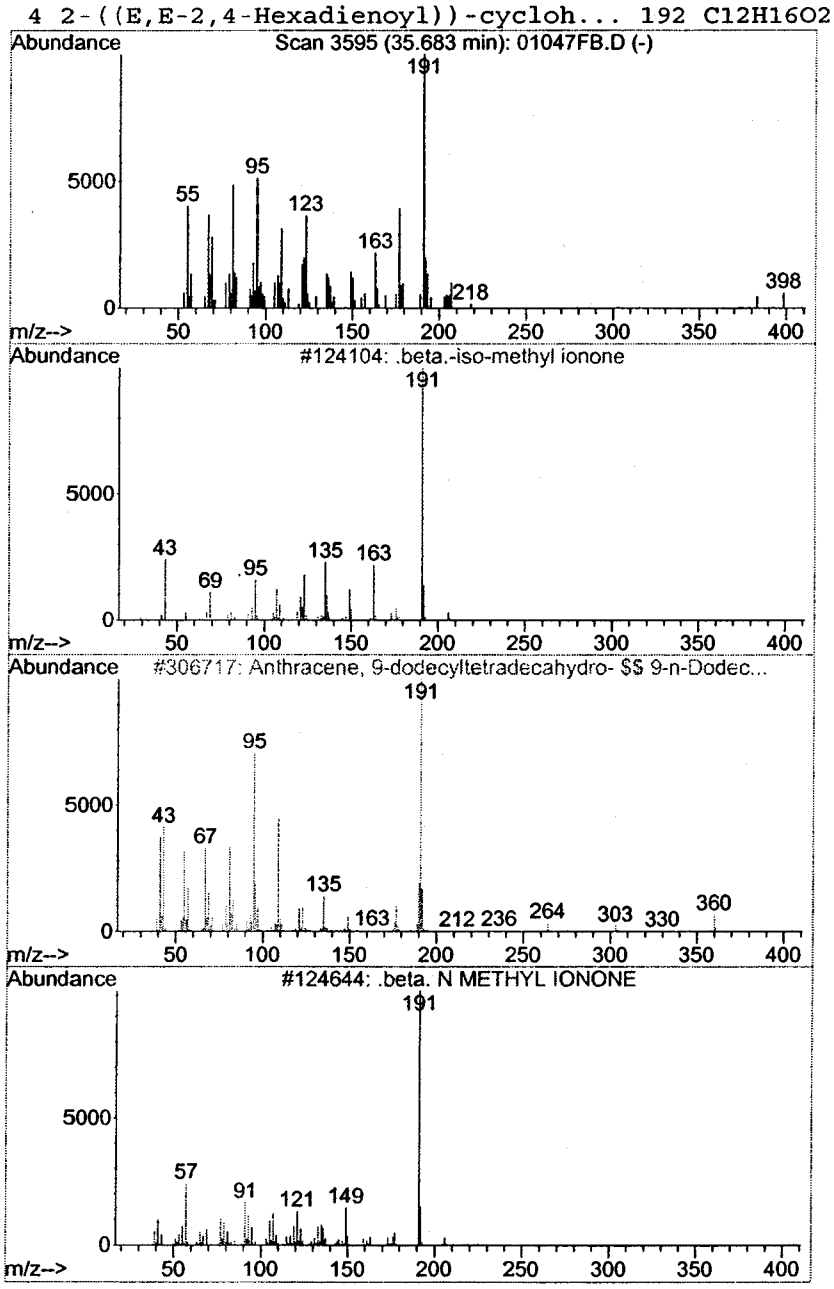
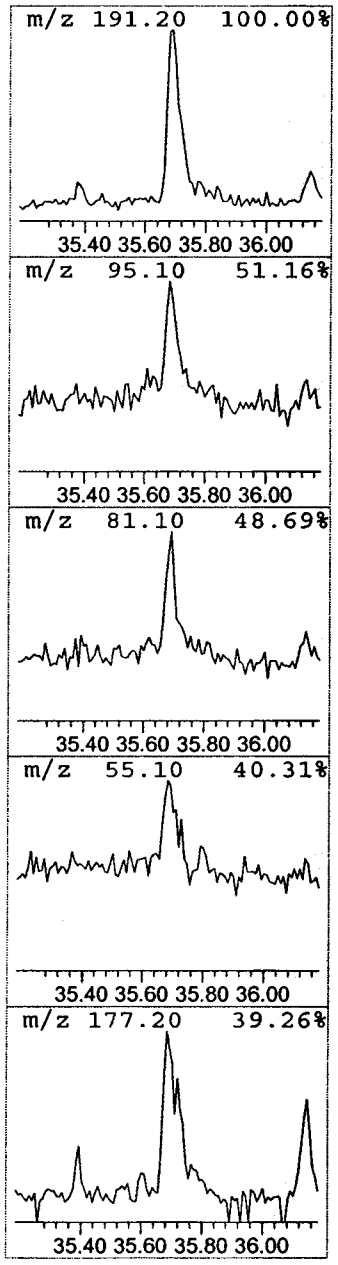

**********

Peak Number 2 .beta.-iso-methyl ionone Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 35.68 | 1.22 ug/L | 298183 | Perylene-d12 | 34.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-iso-methyl ionone | 206 | C13H18O2 | 000000-00-0 | 49 |
| 2 | Anthracene, 9-dodecyltetradecahy... | 360 | C26H48 | 055401-75-7 | 47 |
| 3 | .beta. N METHYL IONONE | 206 | C14H22O | 000127-43-5 | 46 |
| 4 | 2-((E,E-2,4-Hexadienoyl))-cycloh... | 192 | C12H16O2 | 088924-70-3 | 42 |



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Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D          Vial: 16
Acq On    : 28 Feb 2002  11:15 pm                    Operator: McLean
Sample    : GC MS SCAN 2/27                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: LSCINT.P

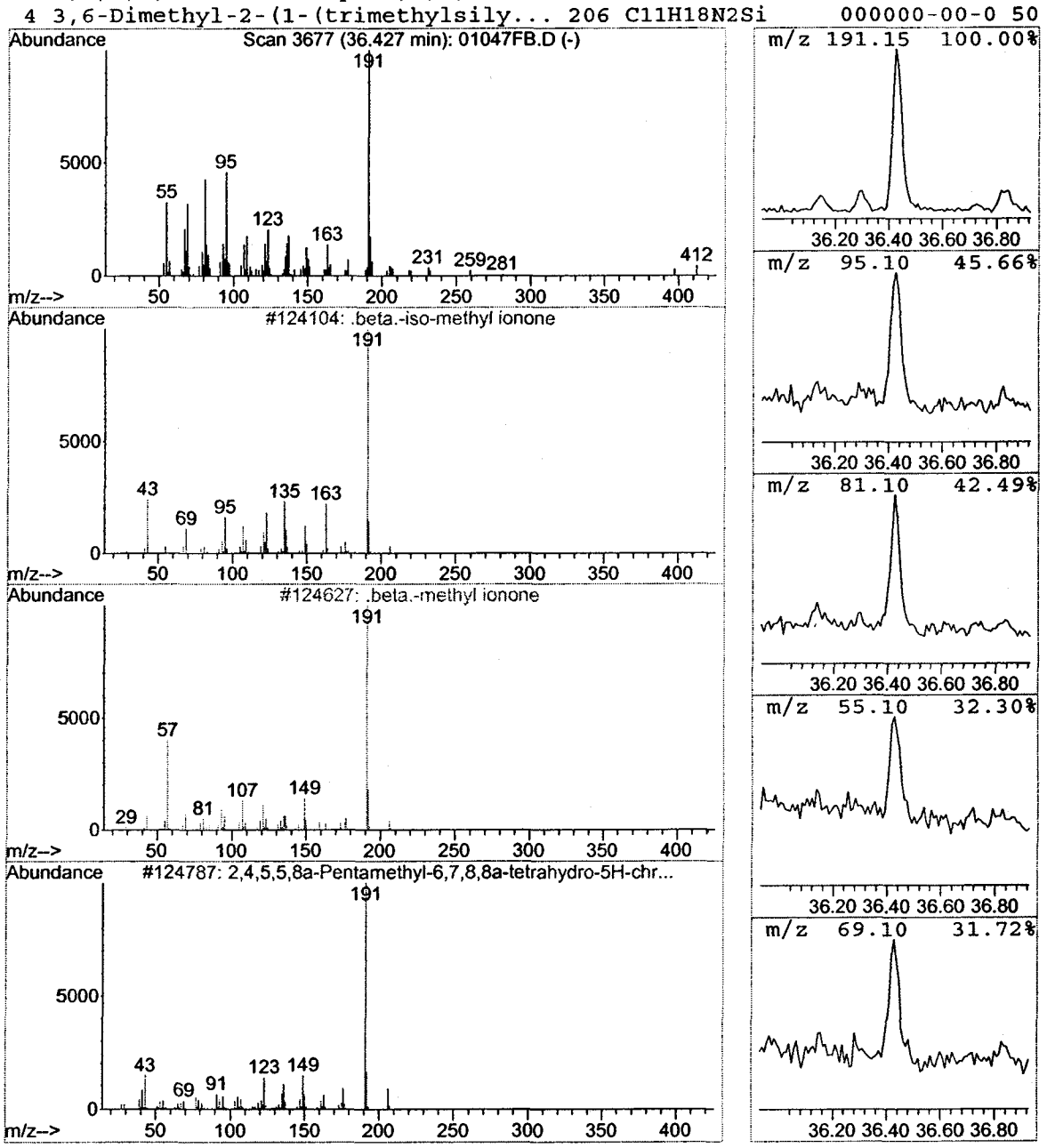
Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title        : Quantitation For Method 508gcscan
Library      : C:\DATABASE\WILEY7N.L
```

**********

Peak Number 3 .beta.-iso-methyl ionone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 36.43 | 1.93 ug/L | 471699 | Perylene-d12 | 34.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-iso-methyl ionone | 206 | C13H18O2 | 000000-00-0 | 70 |
| 2 | .beta.-methyl ionone | 206 | C14H22O | 000000-00-0 | 60 |
| 3 | 2,4,5,5,8a-Pentamethyl-6,7,8,8a-... | 206 | C14H22O | 000000-00-0 | 52 |
| 4 | 3,6-Dimethyl-2-(1-(trimethylsily... | 206 | C11H18N2Si | 000000-00-0 | 50 |



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Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D          Vial: 16
Acq On    : 28 Feb 2002  11:15 pm                    Operator: McLean
Sample    : GC MS SCAN 2/27                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title        : Quantitation For Method 508gcscan
Library      : C:\DATABASE\WILEY7N.L
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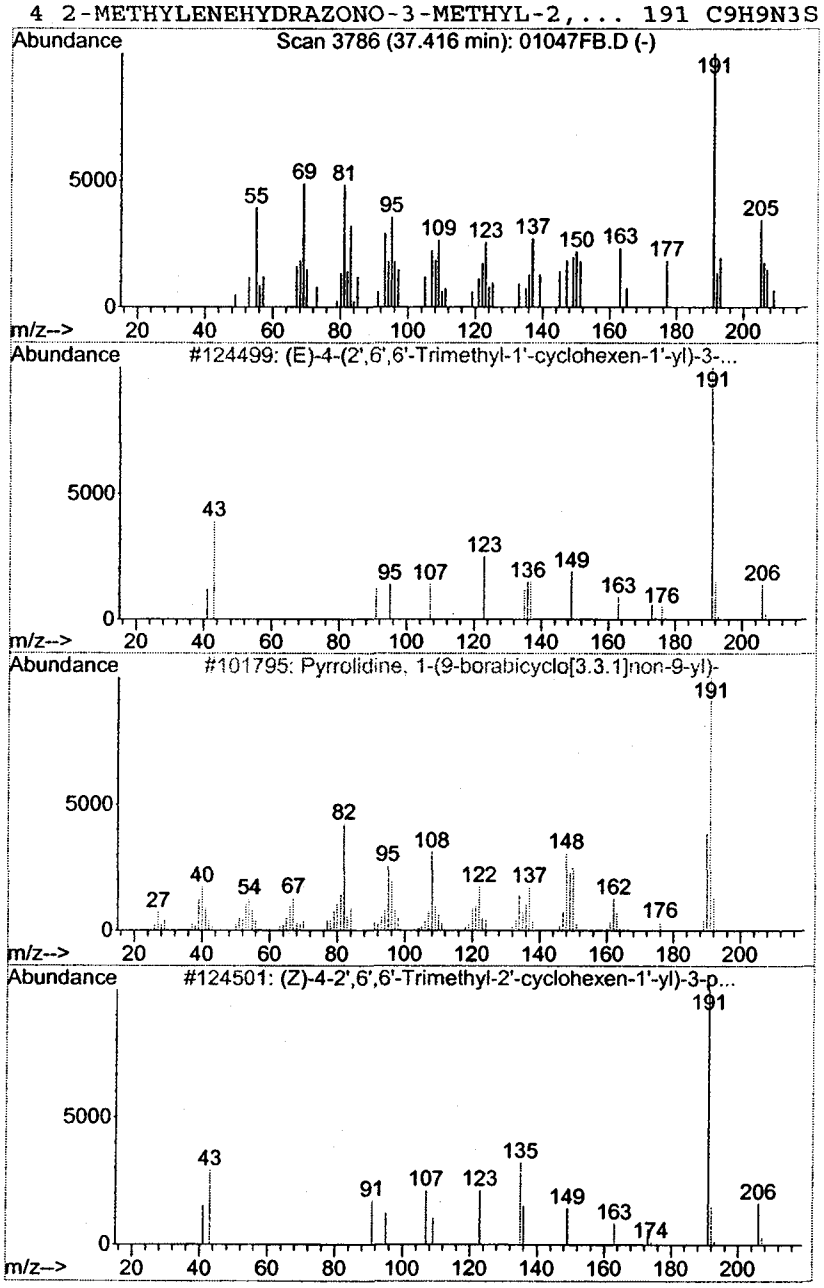
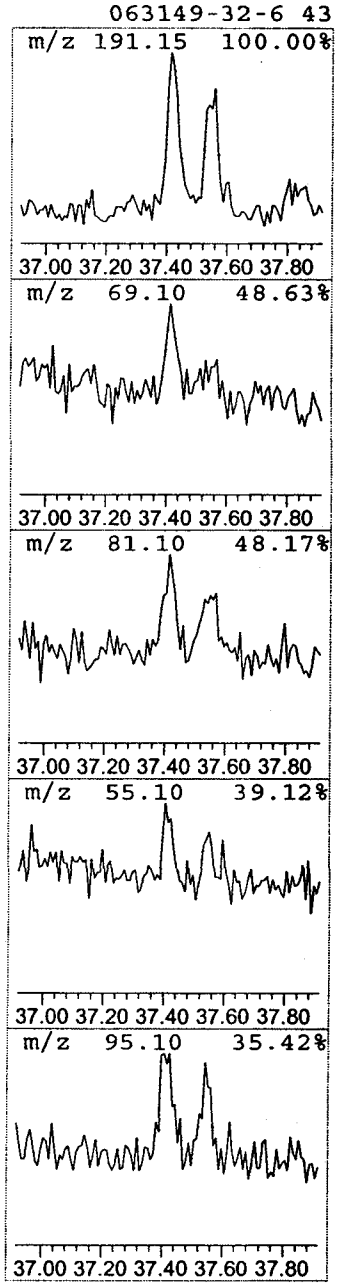
Peak Number 4 (E)-4-(2',6',6'-Trimethyl-1... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 37.42 | 0.46 ug/L | 111974 | Perylene-d12 | 34.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-4-(2',6',6'-Trimethyl-1'-cyc... | 206 | C14H22O | 089128-17-6 | 52 |
| 2 | Pyrrolidine, 1-(9-borabicyclo[3.... | 191 | C12H22BN | 022516-41-2 | 49 |
| 3 | (Z)-4-2',6',6'-Trimethyl-2'-cycl... | 206 | C14H22O | 093175-79-2 | 46 |
| 4 | 2-METHYLENEHYDRAZONO-3-METHYL-2,... | 191 | C9H9N3S | 063149-32-6 | 43 |



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Data File : C:\MSDCHEM\1\DATA\022802\01047FB.D          Vial: 16
Acq On    : 28 Feb 2002  11:15 pm                    Operator: McLean
Sample    : GC MS SCAN 2/27                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title        : Quantitation For Method 508gcscan
Library      : C:\DATABASE\WILEY7N.L
```
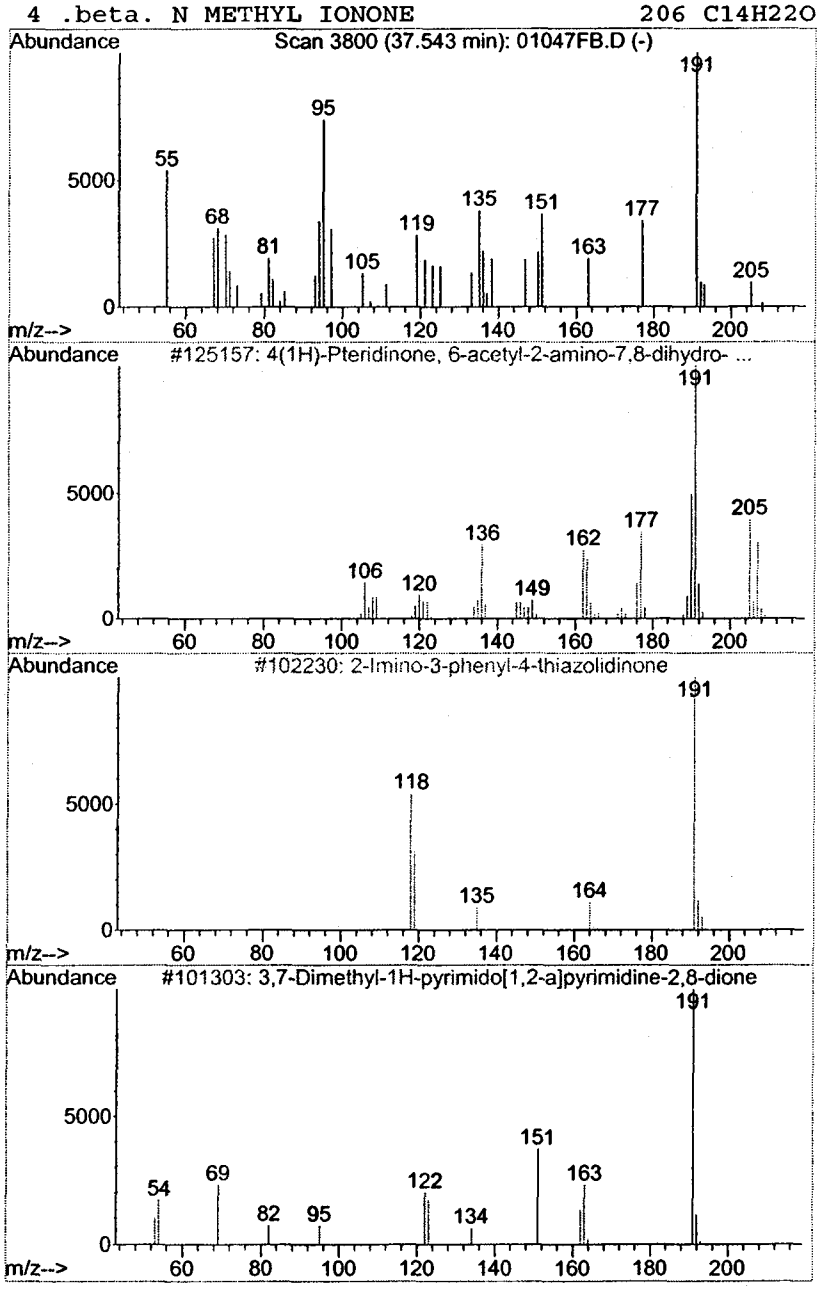
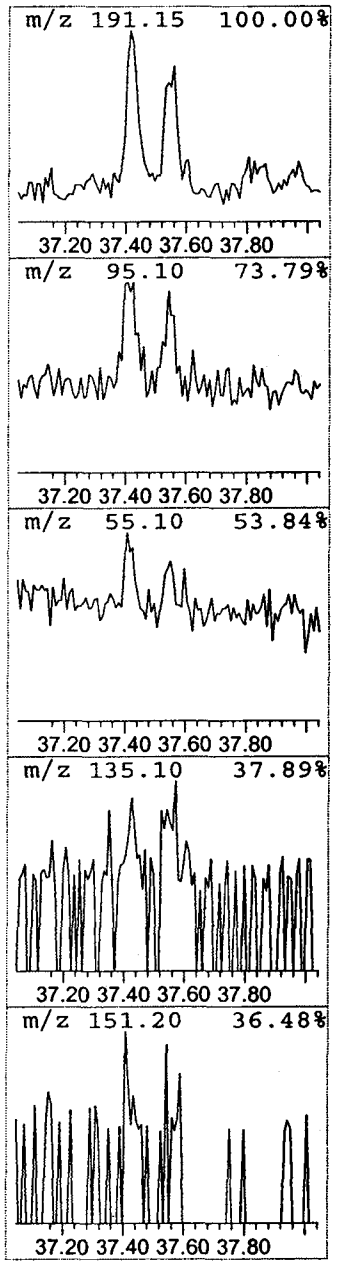

**********

Peak Number 5 4(1H)-Pteridinone, 6-acetyl... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 37.54 | 0.44 ug/L | 106344 | Perylene-d12 | 34.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4(1H)-Pteridinone, 6-acetyl-2-am... | 207 | C8H9N5O2 | 042310-08-7 | 38 |
| 2 | 2-Imino-3-phenyl-4-thiazolidinone | 192 | C9H8N2OS | 000000-00-0 | 32 |
| 3 | 3,7-Dimethyl-1H-pyrimido[1,2-a]p... | 191 | C9H9N3O2 | 000000-00-0 | 25 |
| 4 | .beta. N METHYL IONONE | 206 | C14H22O | 000127-43-5 | 16 |



Operator ID: McLean  Date Acquired: 28 Feb 2002  11:15 pm
Data File: C:\MSDCHEM\1\DATA\022802\01047FB.D
Name: GC MS SCAN 2/27
Misc:
Method: C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title: Quantitation For Method 508gcscan
Library Searched: C:\DATABASE\WILEY7N.L

| | | | | | Internal Standard | | |
|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Cyclopentasiloxan... | 12.08 | 1.3 | ug/L | 377849 | 2 | 13.05 | 5876930 | 20.0 |
| .beta.-iso-methyl... | 35.68 | 1.2 | ug/L | 298183 | 6 | 34.20 | 4880160 | 20.0 |
| .beta.-iso-methyl... | 36.43 | 1.9 | ug/L | 471699 | 6 | 34.20 | 4880160 | 20.0 |
| (E)-4-(2',6',6'-T... | 37.42 | 0.5 | ug/L | 111974 | 6 | 34.20 | 4880160 | 20.0 |
| 4(1H)-Pteridinone... | 37.54 | 0.4 | ug/L | 106344 | 6 | 34.20 | 4880160 | 20.0 |