User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/22/2002 Time: 09:48:59

Sample: AE10982
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/22/02 09:48 Ended: 5/22/02 09:48 Analyst: DLV
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | Other unknown compounds | | . | | |
| 2 | Surr_2,4-DDD | | 91 | | 10.0 |

**Comments for Sample AE10982 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-22-2002 Time: 09:49:34

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for 2 of the 43 compounds in the LCS Standard were low.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\051402\10982.D Vial: 11
Acq On : 14 May 2002 9:39 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 16 14:37:32 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu May 16 14:34:28 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.94 | 152 | 6122217 | 40.00 | ug/L | 0.00 |
| 10) Napthalene-d8 | 13.43 | 136 | 24234852 | 40.00 | ug/L | 0.00 |
| 17) Acenapthalene-d10 | 18.57 | 164 | 13163286 | 40.00 | ug/L | 0.00 |
| 29) Phenanthranene-d10 | 22.95 | 188 | 18851815 | 40.00 | ug/L | 0.00 |
| 37) Chrysene-d12 | 30.81 | 240 | 13920682 | 40.00 | ug/L | 0.00 |
| 43) Perylene-d12 | 34.71 | 264 | 9140986 | 40.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 27) TCMX | 20.55 | 209 | 2922029 | 36.56 | ug/L | 0.00 |
| Spiked Amount 40.000 | | | Recovery = 91.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) n-nitros-dimethyl amine | 0.00 | 74 | 0 | N.D. d | | |
| 3) bis(2-Chloroethyl)ether | 0.00 | 93 | 0 | N.D. | | |
| 4) 1,3-Dichlorobenzene | 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-Chloropropane | 0.00 | 45 | 0 | N.D. | | |
| 8) N-nitroso-di-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) Napthalene | 0.00 | 128 | 0 | N.D. | | |
| 16) Hexachlorobutadiene | 0.00 | 225 | 0 | N.D. | | |
| 18) 2-Chloronaphthalene | 0.00 | 162 | 0 | N.D. | | |
| 19) Dimethylphthalate | 0.00 | 163 | 0 | N.D. | | |
| 20) 2,6-Dinitrotoluene | 0.00 | 165 | 0 | N.D. | | |
| 21) Acenapthylene | 0.00 | 152 | 0 | N.D. | | |
| 22) Acenapthalene | 0.00 | 153 | 0 | N.D. | | |
| 23) 2,4-Dinitrotoluene | 0.00 | 165 | 0 | N.D. | | |
| 24) Diethylphthalate | 0.00 | 149 | 0 | N.D. | | |
| 25) 4-Chlorophenyl-phenylether | 0.00 | 204 | 0 | N.D. | | |
| 26) Fluorene | 0.00 | 166 | 0 | N.D. | | |
| 28) Azobenzene | 20.55 | 77 | 53186 | N.D. | | |
| 30) Nnitrosodiphenylamine | 20.55 | 169 | 58527 | 0.25 | ug/L # | 54 |
| 31) 4-Bromophenyl-phenylether | 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 | 25.09 | 149 | 14346 | N.D. | | |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\051402\10982.D Vial: 11
Acq On : 14 May 2002 9:39 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 16 14:37:32 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu May 16 14:34:28 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

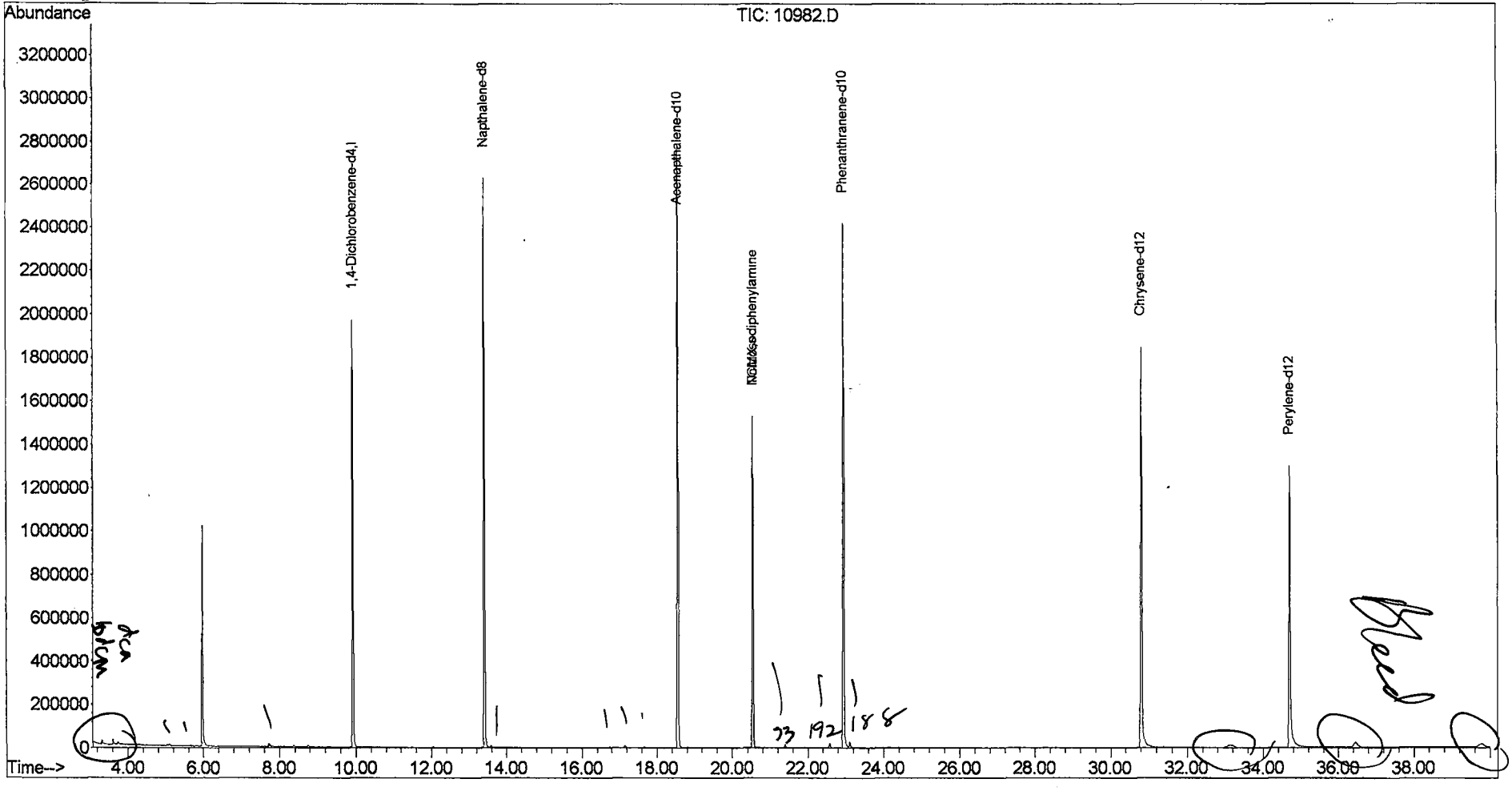
| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 36) | Fluoroanthene | 0.00 | 202 | 0 | N.D. | |
| 38) | Pyrene | 0.00 | 202 | 0 | N.D. | |
| 39) | Butylbenzylphthalate | 0.00 | 149 | 0 | N.D. | |
| 40) | Benzo(a)anthracene | 30.81 | 228 | 30792 | N.D. | |
| 41) | Bis(2-ethylhexyl)phthalate | 0.00 | 149 | 0 | N.D. | |
| 42) | Chrysene | 0.00 | 228 | 0 | N.D. | |
| 44) | Di-n-octylphthalate | 0.00 | 149 | 0 | N.D. | |
| 45) | Benzo(b)fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 46) | Benzo(k)fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 47) | Benzo(a)pyrene | 0.00 | 252 | 0 | N.D. | |
| 48) | Indeno(1,2,3-cd)pyrene | 0.00 | 276 | 0 | N.D. | |
| 49) | Dibenz(a,h)anthracene | 0.00 | 278 | 0 | N.D. | |
| 50) | Benzo(g,h,i)perylene | 0.00 | 276 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\051402\10982.D Vial: 11
Acq On : 14 May 2002 9:39 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 16 14:37 2002 Quant Results File: 050102.RES

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu May 16 14:34:28 2002
Response via : Initial Calibration



# LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\051402\10982.D  Vial: 11
Acq On : 14 May 2002 9:39 pm  Operator: Mclean
Sample : 5/10 kb  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan

Signal : TIC

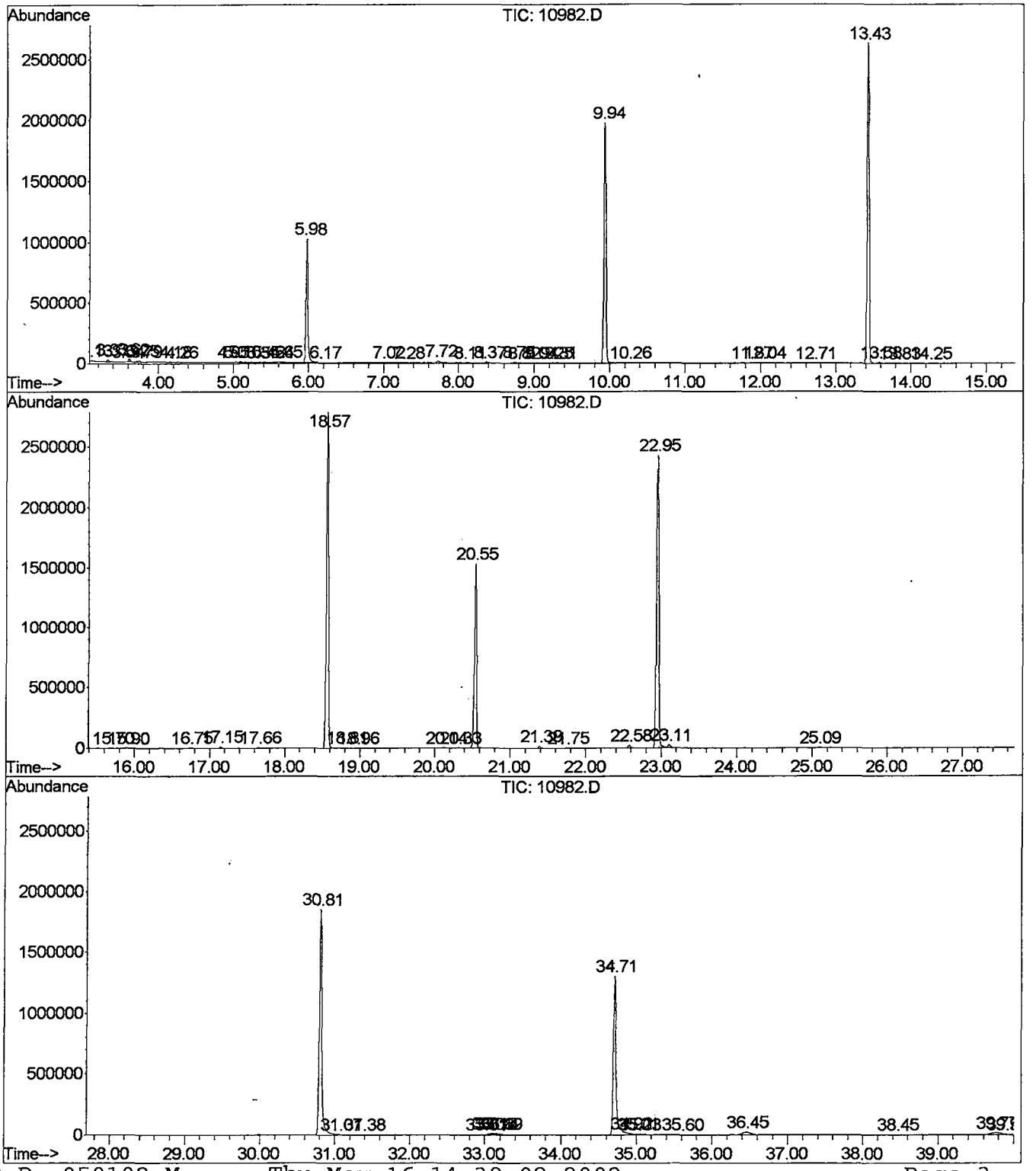
| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.126 | 3 | 8 | 15 | BV 4 | 3979 | 85479 | 0.16% | 0.026% |
| 2 | 3.332 | 37 | 43 | 49 | PV | 15990 | 224338 | 0.42% | 0.069% |
| 3 | 3.543 | 72 | 79 | 83 | PV 5 | 1805 | 25159 | 0.05% | 0.008% |
| 4 | 3.620 | 87 | 92 | 100 | VV | 23857 | 417313 | 0.77% | 0.128% |
| 5 | 3.749 | 100 | 114 | 120 | VV 2 | 12444 | 394068 | 0.73% | 0.120% |
| 6 | 3.790 | 120 | 121 | 131 | VV 9 | 3905 | 144659 | 0.27% | 0.044% |
| 7 | 4.178 | 176 | 187 | 191 | VV 7 | 3743 | 109402 | 0.20% | 0.033% |
| 8 | 4.260 | 197 | 201 | 205 | VV 6 | 3459 | 72913 | 0.14% | 0.022% |
| 9 | 4.953 | 315 | 319 | 328 | PV 5 | 2857 | 35634 | 0.07% | 0.011% |
| 10 | 5.036 | 328 | 333 | 338 | VV 4 | 4716 | 96692 | 0.18% | 0.030% |
| 11 | 5.100 | 338 | 344 | 353 | VV 6 | 8138 | 200632 | 0.37% | 0.061% |
| 12 | 5.341 | 382 | 385 | 389 | PV 4 | 2053 | 27407 | 0.05% | 0.008% |
| 13 | 5.418 | 392 | 398 | 414 | VV 4 | 4292 | 97727 | 0.18% | 0.030% |
| 14 | 5.535 | 414 | 418 | 424 | PV 6 | 2330 | 51778 | 0.10% | 0.016% |
| 15 | 5.653 | 433 | 438 | 447 | VV 6 | 4957 | 115208 | 0.21% | 0.035% |
| 16 | 5.976 | 485 | 493 | 521 | VV | 1005561 | 17787611 | 32.94% | 5.437% |
| 17 | 6.176 | 521 | 527 | 532 | VV 9 | 2293 | 52682 | 0.10% | 0.016% |
| 18 | 7.016 | 667 | 670 | 673 | VV 5 | 2116 | 30878 | 0.06% | 0.009% |
| 19 | 7.286 | 711 | 716 | 726 | VV 9 | 1976 | 41654 | 0.08% | 0.013% |
| 20 | 7.727 | 783 | 791 | 808 | PV 3 | 14380 | 419972 | 0.78% | 0.128% |
| 21 | 8.109 | 853 | 856 | 861 | VV 3 | 1948 | 33214 | 0.06% | 0.010% |
| 22 | 8.367 | 894 | 900 | 914 | PV 6 | 6694 | 138405 | 0.26% | 0.042% |
| 23 | 8.749 | 954 | 965 | 973 | BV 2 | 7933 | 155384 | 0.29% | 0.047% |
| 24 | 8.820 | 973 | 977 | 985 | VV 7 | 2224 | 47647 | 0.09% | 0.015% |
| 25 | 9.043 | 1004 | 1015 | 1021 | PV 8 | 2206 | 66517 | 0.12% | 0.020% |
| 26 | 9.254 | 1044 | 1051 | 1056 | VV 5 | 2462 | 57606 | 0.11% | 0.018% |
| 27 | 9.313 | 1056 | 1061 | 1075 | VV 5 | 3477 | 104897 | 0.19% | 0.032% |
| 28 | 9.936 | 1157 | 1167 | 1185 | PV | 1975154 | 36963766 | 68.44% | 11.299% |
| 29 | 10.259 | 1215 | 1222 | 1225 | PV 6 | 1397 | 17947 | 0.03% | 0.005% |
| 30 | 11.869 | 1490 | 1496 | 1502 | VV 5 | 1799 | 28420 | 0.05% | 0.009% |
| 31 | 12.039 | 1520 | 1525 | 1531 | VV 2 | 3634 | 68730 | 0.13% | 0.021% |
| 32 | 12.715 | 1636 | 1640 | 1648 | PV 4 | 1706 | 41510 | 0.08% | 0.013% |
| 33 | 13.432 | 1749 | 1762 | 1779 | VV | 2629236 | 49742324 | 92.10% | 15.205% |
| 34 | 13.585 | 1779 | 1788 | 1797 | VV | 8675 | 192521 | 0.36% | 0.059% |
| 35 | 13.831 | 1821 | 1830 | 1834 | VV 5 | 2153 | 45796 | 0.08% | 0.014% |
| 36 | 14.254 | 1896 | 1902 | 1908 | PV 4 | 2253 | 41166 | 0.08% | 0.013% |
| 37 | 15.700 | 2140 | 2148 | 2155 | VV 5 | 2140 | 46560 | 0.09% | 0.014% |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 38 | 15.905 | 2177 | 2183 | 2190 | VV | | 1848 | 34554 | 0.06% | 0.011% |
| 39 | 16.746 | 2320 | 2326 | 2335 | PV | 3 | 5258 | 97296 | 0.18% | 0.030% |
| 40 | 17.145 | 2389 | 2394 | 2402 | VV | 2 | 11061 | 178183 | 0.33% | 0.054% |
| 41 | 17.656 | 2467 | 2481 | 2487 | VV | 5 | 4753 | 87463 | 0.16% | 0.027% |
| 42 | 18.567 | 2626 | 2636 | 2662 | VV | | 2743264 | 54006194 | 100.00% | 16.509% |
| 43 | 18.814 | 2672 | 2678 | 2686 | VV | 3 | 4012 | 81645 | 0.15% | 0.025% |
| 44 | 18.961 | 2696 | 2703 | 2713 | VV | 6 | 2004 | 48550 | 0.09% | 0.015% |
| 45 | 20.142 | 2900 | 2904 | 2908 | VV | 4 | 2284 | 37228 | 0.07% | 0.011% |
| 46 | 20.330 | 2929 | 2936 | 2943 | VV | 6 | 1834 | 35917 | 0.07% | 0.011% |
| 47 | 20.547 | 2958 | 2973 | 2998 | PV | | 1539797 | 29132225 | 53.94% | 8.905% |
| 48 | 21.393 | 3110 | 3117 | 3124 | PV | 3 | 15298 | 243364 | 0.45% | 0.074% |
| 49 | 21.758 | 3166 | 3179 | 3184 | PV | 5 | 2213 | 41372 | 0.08% | 0.013% |
| 50 | 22.580 | 3308 | 3319 | 3331 | VV | 2 | 22139 | 438672 | 0.81% | 0.134% |
| 51 | 22.956 | 3365 | 3383 | 3403 | PV | 2 | 2421881 | 51763655 | 95.85% | 15.823% |
| 52 | 23.109 | 3403 | 3409 | 3421 | VV | 2 | 24916 | 550728 | 1.02% | 0.168% |
| 53 | 25.089 | 3740 | 3746 | 3750 | PV | 2 | 1445 | 21685 | 0.04% | 0.007% |
| 54 | 30.812 | 4709 | 4720 | 4762 | PV | 2 | 1845270 | 43517383 | 80.58% | 13.302% |
| 55 | 31.064 | 4762 | 4763 | 4780 | VV | 8 | 4791 | 192941 | 0.36% | 0.059% |
| 56 | 31.382 | 4805 | 4817 | 4825 | PV | 9 | 2773 | 54390 | 0.10% | 0.017% |
| 57 | 33.003 | 5078 | 5093 | 5094 | PV | 7 | 3004 | 88692 | 0.16% | 0.027% |
| 58 | 33.080 | 5094 | 5106 | 5110 | VV | 7 | 10110 | 344528 | 0.64% | 0.105% |
| 59 | 33.121 | 5110 | 5113 | 5115 | VV | 4 | 10577 | 198989 | 0.37% | 0.061% |
| 60 | 33.144 | 5115 | 5117 | 5123 | VV | 7 | 10510 | 261602 | 0.48% | 0.080% |
| 61 | 33.197 | 5123 | 5126 | 5144 | VV | 6 | 10396 | 375920 | 0.70% | 0.115% |
| 62 | 34.713 | 5370 | 5384 | 5417 | PV | 2 | 1293062 | 33620613 | 62.25% | 10.277% |
| 63 | 34.919 | 5417 | 5419 | 5432 | VV | 7 | 11358 | 404836 | 0.75% | 0.124% |
| 64 | 35.007 | 5432 | 5434 | 5436 | VV | 3 | 5335 | 64748 | 0.12% | 0.020% |
| 65 | 35.030 | 5436 | 5438 | 5440 | VV | 2 | 4894 | 63800 | 0.12% | 0.020% |
| 66 | 35.595 | 5527 | 5534 | 5541 | PV | 7 | 1902 | 29811 | 0.06% | 0.009% |
| 67 | 36.452 | 5657 | 5680 | 5706 | PV | 8 | 21241 | 1491968 | 2.76% | 0.456% |
| 68 | 38.450 | 6013 | 6020 | 6024 | PV | 5 | 1339 | 20318 | 0.04% | 0.006% |
| 69 | 39.766 | 6219 | 6244 | 6266 | VV | 9 | 15178 | 1341983 | 2.48% | 0.410% |
| 70 | 39.901 | 6266 | 6267 | 6277 | VV | 6 | 2393 | 45573 | 0.08% | 0.014% |

Sum of corrected areas: 327140442

# LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\051402\10982.D
Operator : Mclean
Acquired : 14 May 2002 9:39 pm using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: 5/10 kb
Misc Info :
Vial Number: 11
Quant File :050102.RES (Chemstation Integrator)



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\051402\10982.D
Acq On : 14 May 2002 9:39 pm
Sample : 5/10 kb
Misc :
MS Integration Params: LSCINT.e

Vial: 11
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

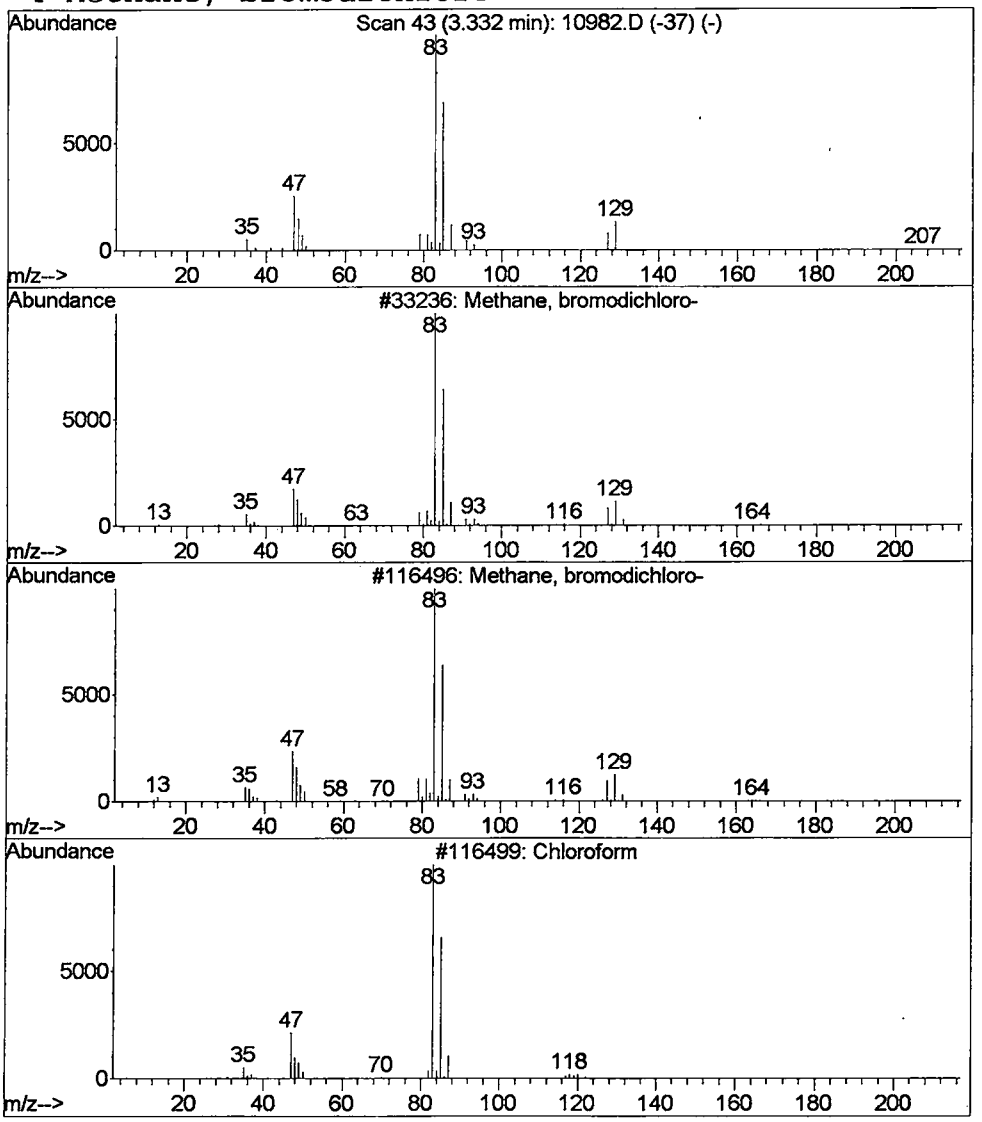
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

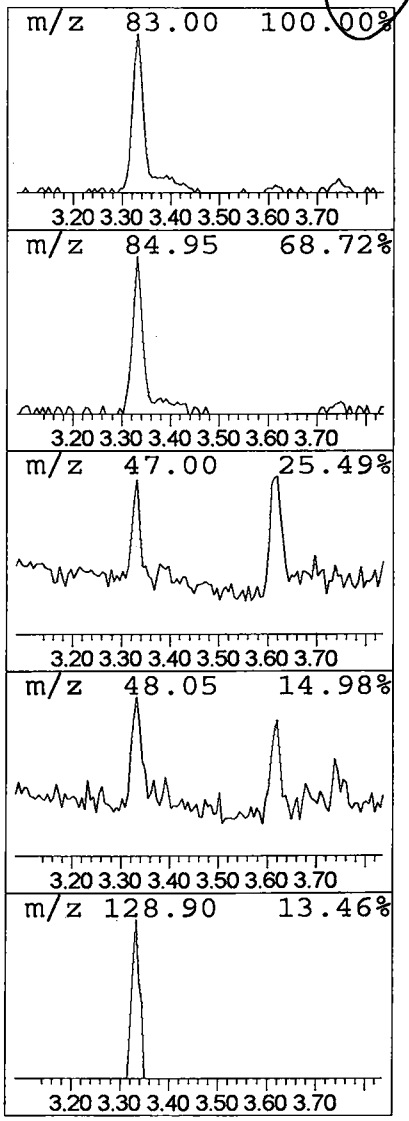
**********

Peak Number 1 Methane, bromodichloro- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.33 | 0.24 ug/L | 224338 | 1,4-Dichlorobenzene-d4 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methane, bromodichloro- | 162 | CHBrCl2 | 000075-27-4 | 90 |
| 2 | Methane, bromodichloro- | 162 | CHBrCl2 | 000075-27-4 | 86 |
| 3 | Chloroform | 118 | CHCl3 | 000067-66-3 | 86 |
| 4 | Methane, bromodichloro- | 162 | CHBrCl2 | 000075-27-4 | 83 |



Data File : C:\MSDCHEM\1\DATA\051402\10982.D
Acq On : 14 May 2002 9:39 pm
Sample : 5/10 kb
Misc :
MS Integration Params: LSCINT.e

Vial: 11
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

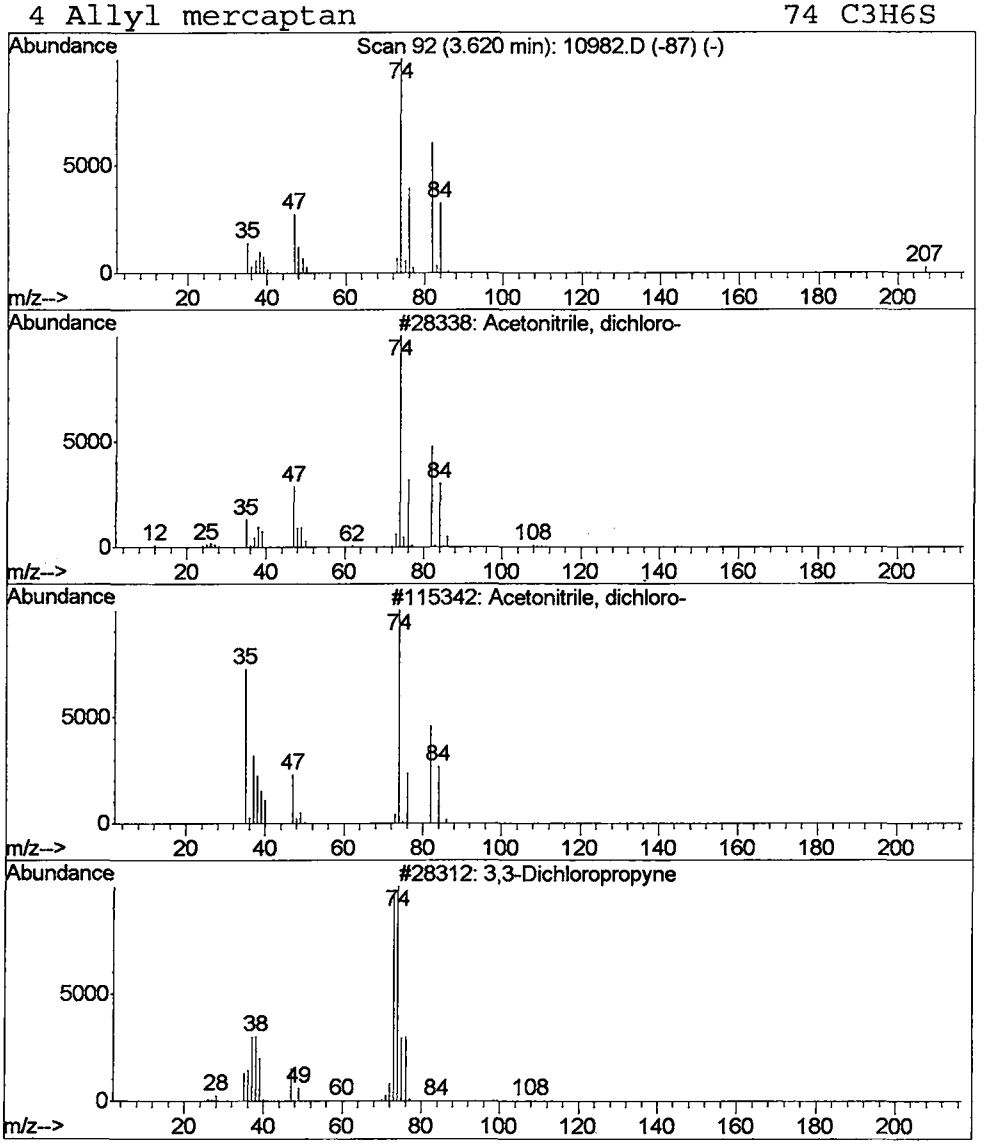
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

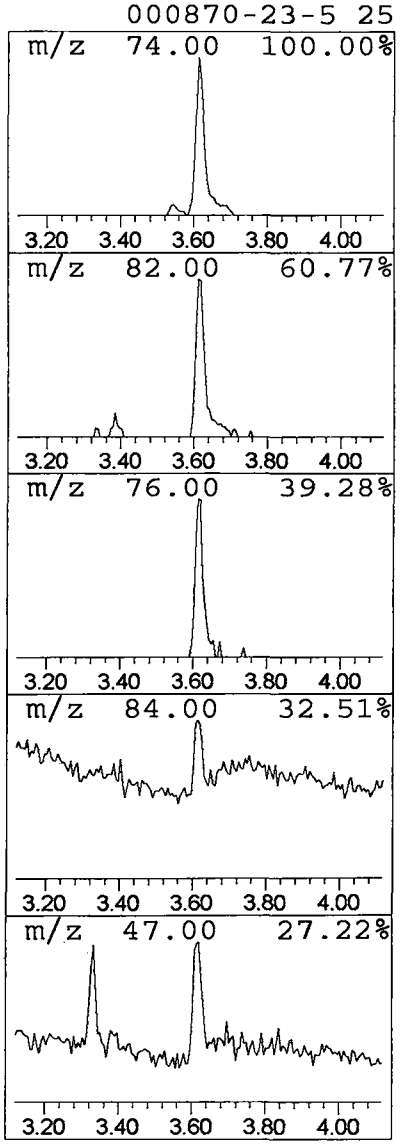
**********

Peak Number 2 Acetonitrile, dichloro- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.62 | 0.45 ug/L | 417313 | 1,4-Dichlorobenzene-d4 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetonitrile, dichloro- | 109 | C2HCl2N | 003018-12-0 | 90 |
| 2 | Acetonitrile, dichloro- | 109 | C2HCl2N | 003018-12-0 | 50 |
| 3 | 3,3-Dichloropropyne | 108 | C3H2Cl2 | 1000222-23-9 | 28 |
| 4 | Allyl mercaptan | 74 | C3H6S | 000870-23-5 | 25 |



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\051402\10982.D
Acq On : 14 May 2002 9:39 pm
Sample : 5/10 kb
Misc :
MS Integration Params: LSCINT.e

Vial: 11
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

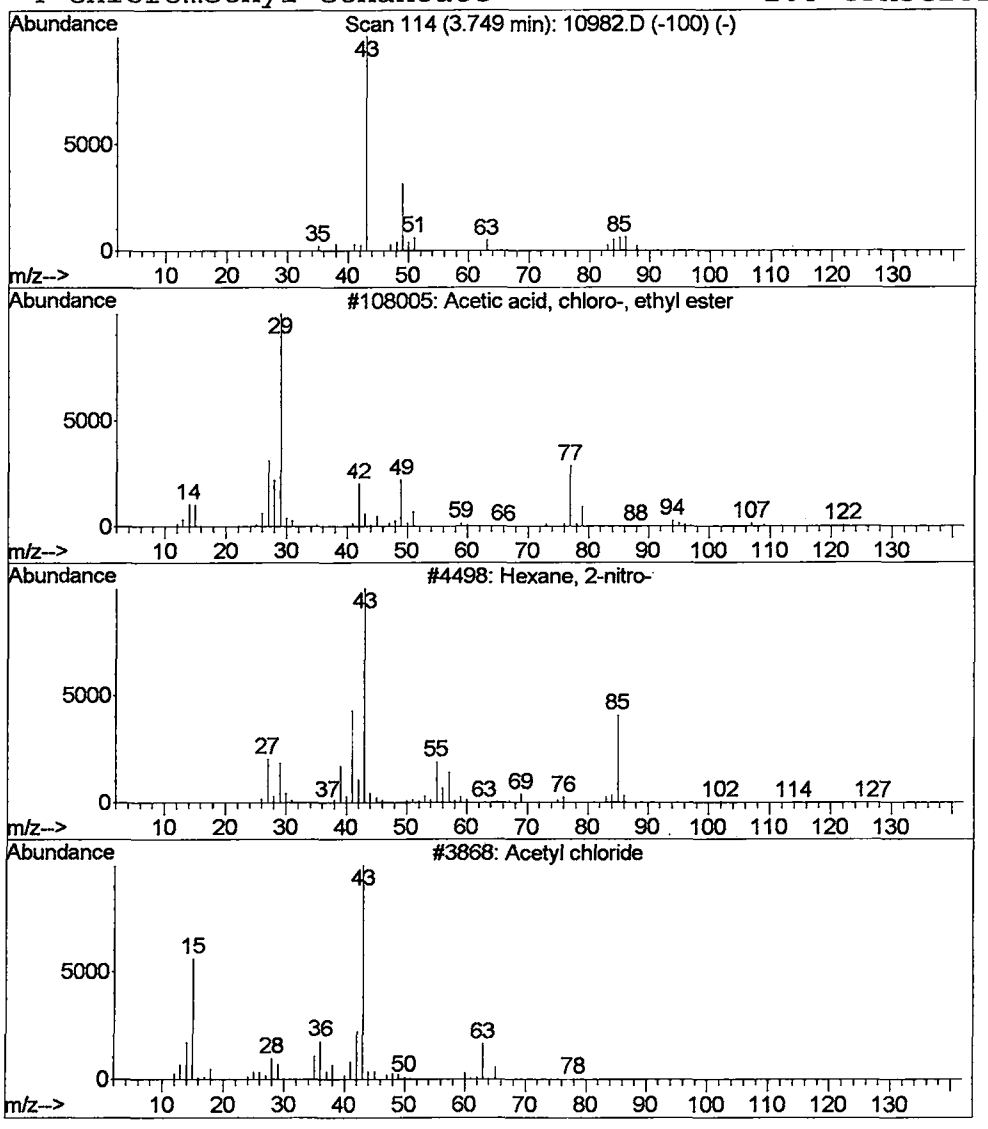
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

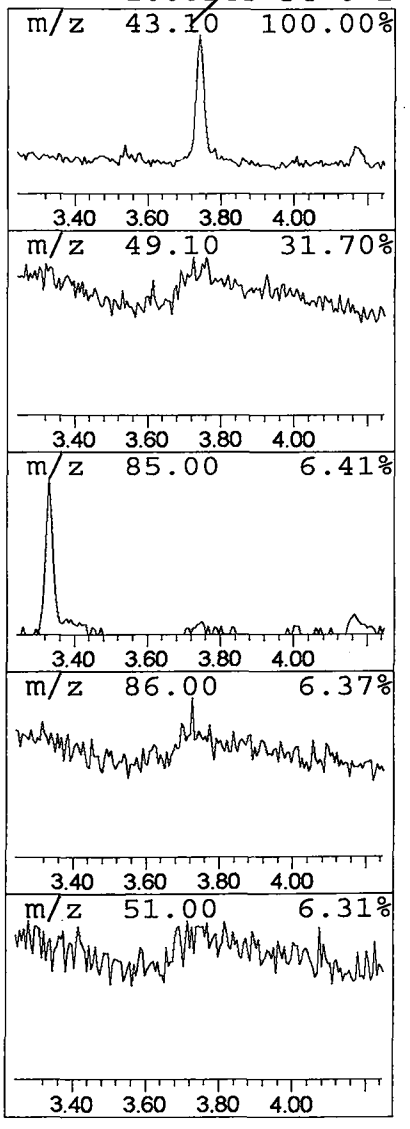
**********

Peak Number 3 Acetic acid, chloro-, ethyl... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.75 | 0.43 ug/L | 394068 | 1,4-Dichlorobenzene-d4 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, chloro-, ethyl ester | 122 | C4H7ClO2 | 000105-39-5 | 9 |
| 2 | Hexane, 2-nitro- | 131 | C6H13NO2 | 014255-44-8 | 2 |
| 3 | Acetyl chloride | 78 | C2H3ClO | 000075-36-5 | 2 |
| 4 | Chloromethyl ethanoate | 108 | C3H5ClO2 | 1000143-34-6 | 2 |



# Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\051402\10982.D  Vial: 11
Acq On : 14 May 2002 9:39 pm  Operator: Mclean
Sample : 5/10 kb  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

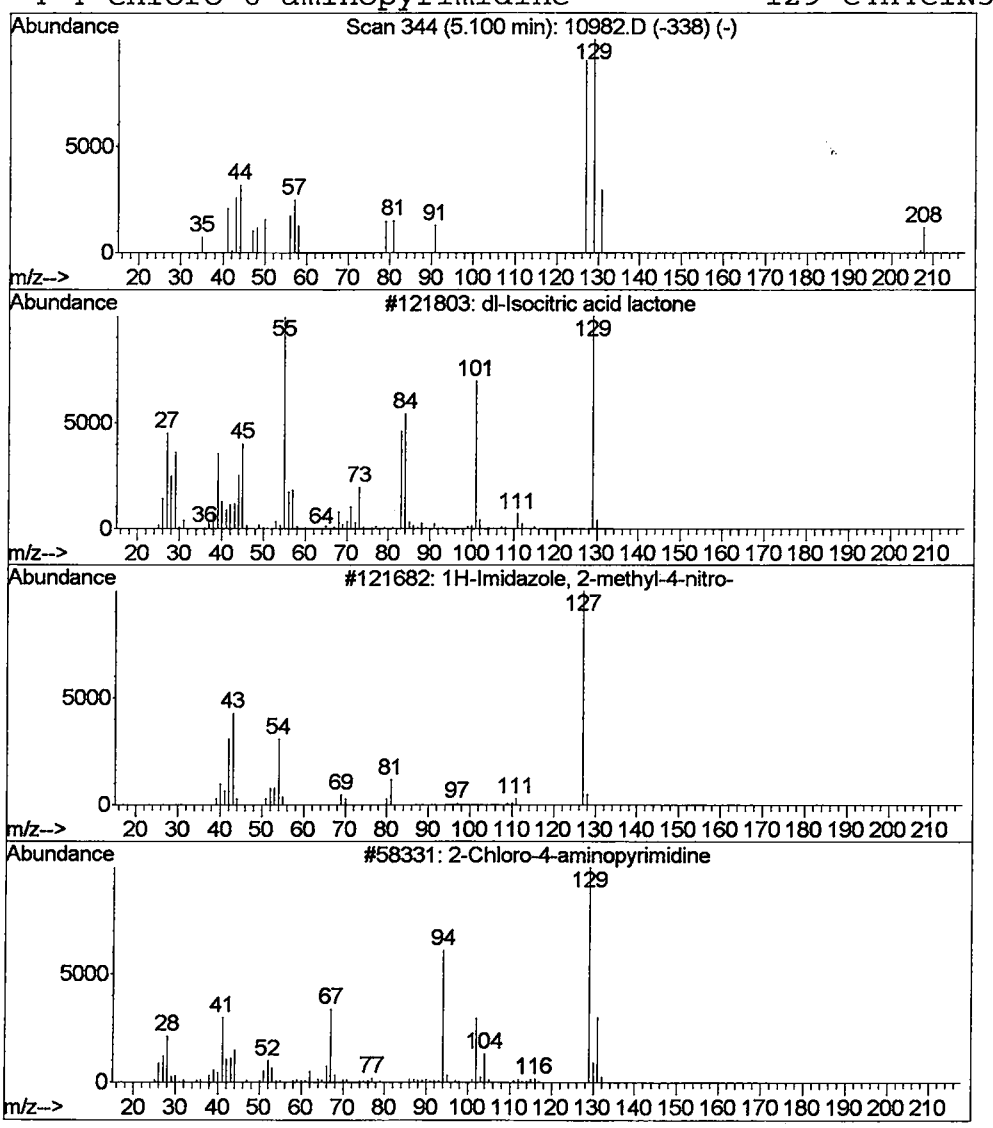
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

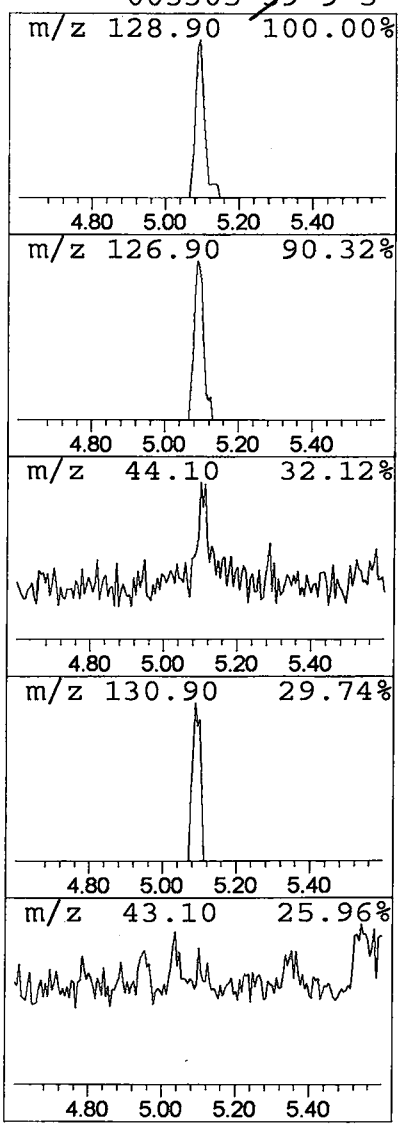
**********

Peak Number 4 dl-Isocitric acid lactone Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.10 | 0.22 ug/L | 200632 | 1,4-Dichlorobenzene-d4 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | dl-Isocitric acid lactone | 174 | C6H6O6 | 004702-32-3 | 9 |
| 2 | 1H-Imidazole, 2-methyl-4-nitro- | 127 | C4H5N3O2 | 000696-23-1 | 7 |
| 3 | 2-Chloro-4-aminopyrimidine | 129 | C4H4ClN3 | 007461-50-9 | 5 |
| 4 | 4-Chloro-6-aminopyrimidine | 129 | C4H4ClN3 | 005305-59-9 | 5 |



# Library Search Compound Report

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Acq On : 14 May 2002 9:39 pm  Operator: Mclean
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MS Integration Params: LSCINT.e

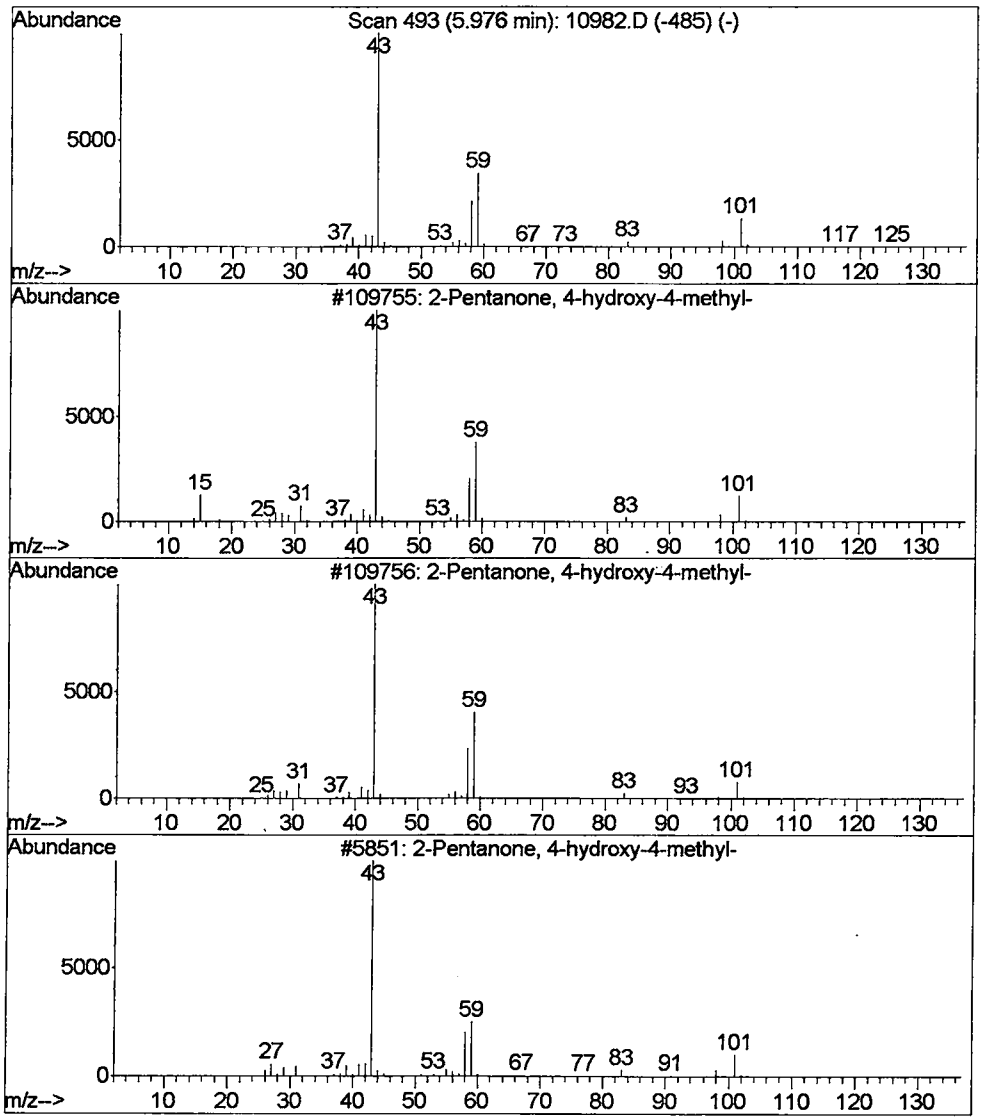
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

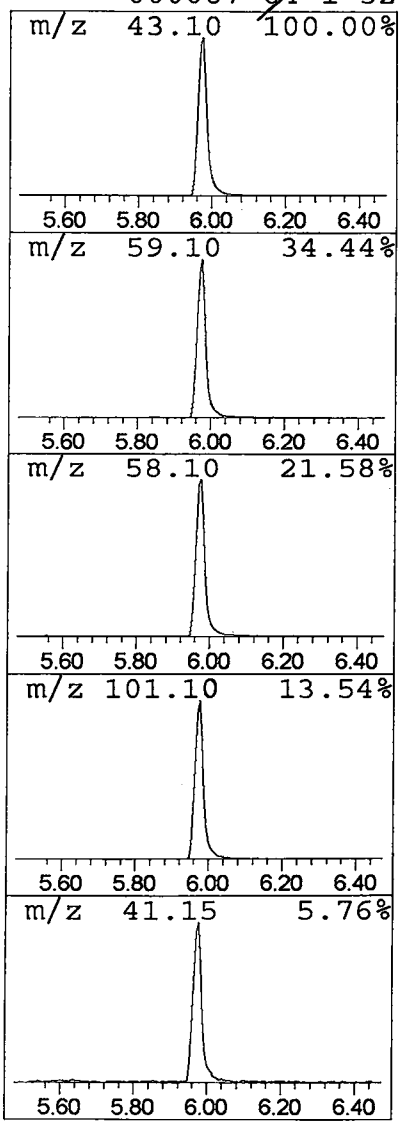
**********

Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.98 | 19.25 ug/L | 17787600 | 1,4-Dichlorobenzene-d4 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 86 |
| 2 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 3 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 4 | Acetone | 58 | C3H6O | 000067-64-1 | 32 |



Library Search Compound Report

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Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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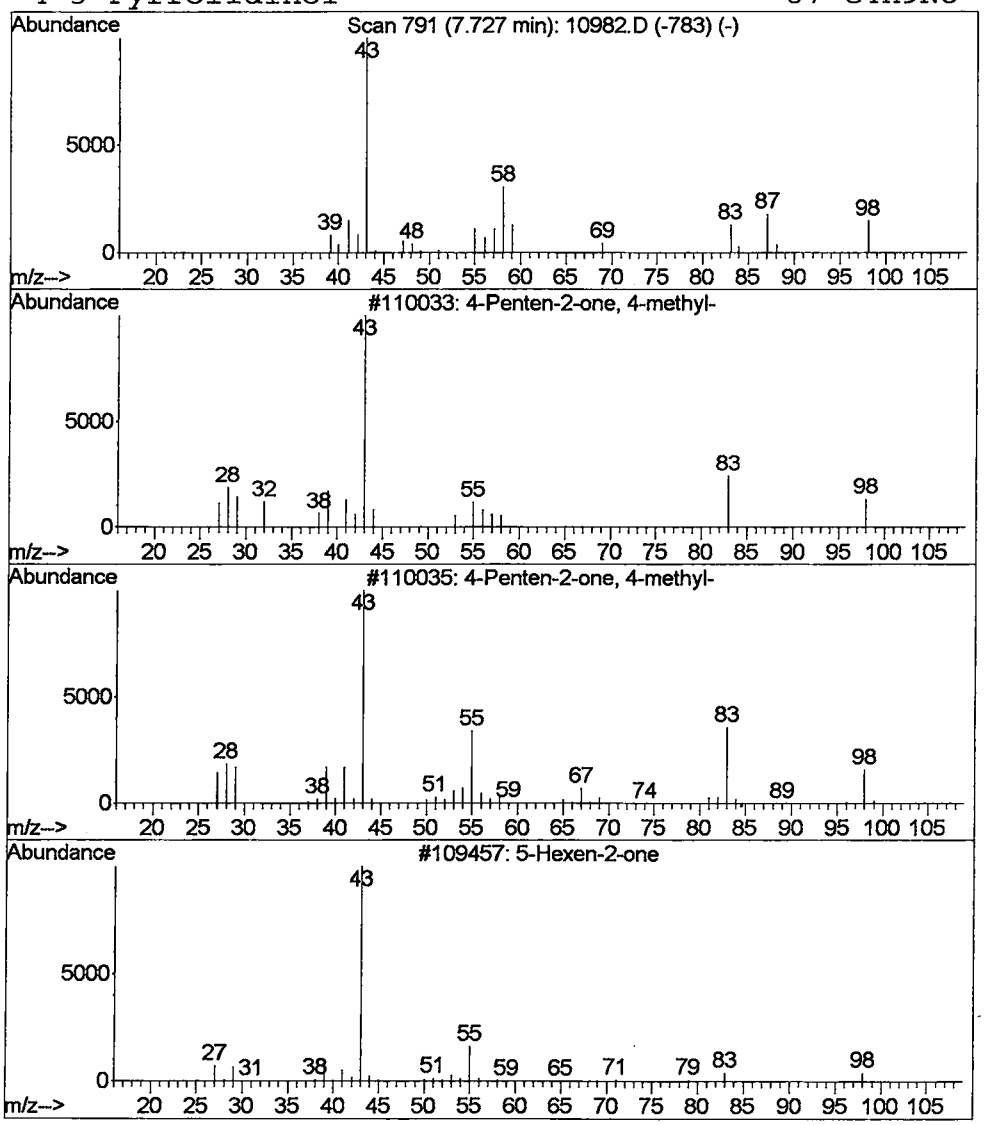
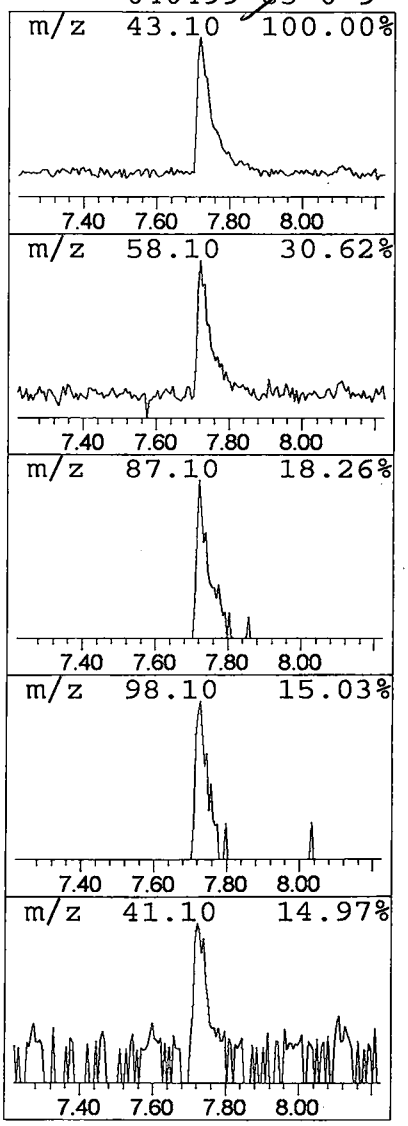
Peak Number 6 4-Penten-2-one, 4-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.72 | 0.45 ug/L | 419972 | 1,4-Dichlorobenzene-d4 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Penten-2-one, 4-methyl- | 98 | C6H10O | 003744-02-3 | 10 |
| 2 | 4-Penten-2-one, 4-methyl- | 98 | C6H10O | 003744-02-3 | 9 |
| 3 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 4 | 3-Pyrrolidinol | 87 | C4H9NO | 040499-83-0 | 9 |



# Library Search Compound Report

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Vial: 11
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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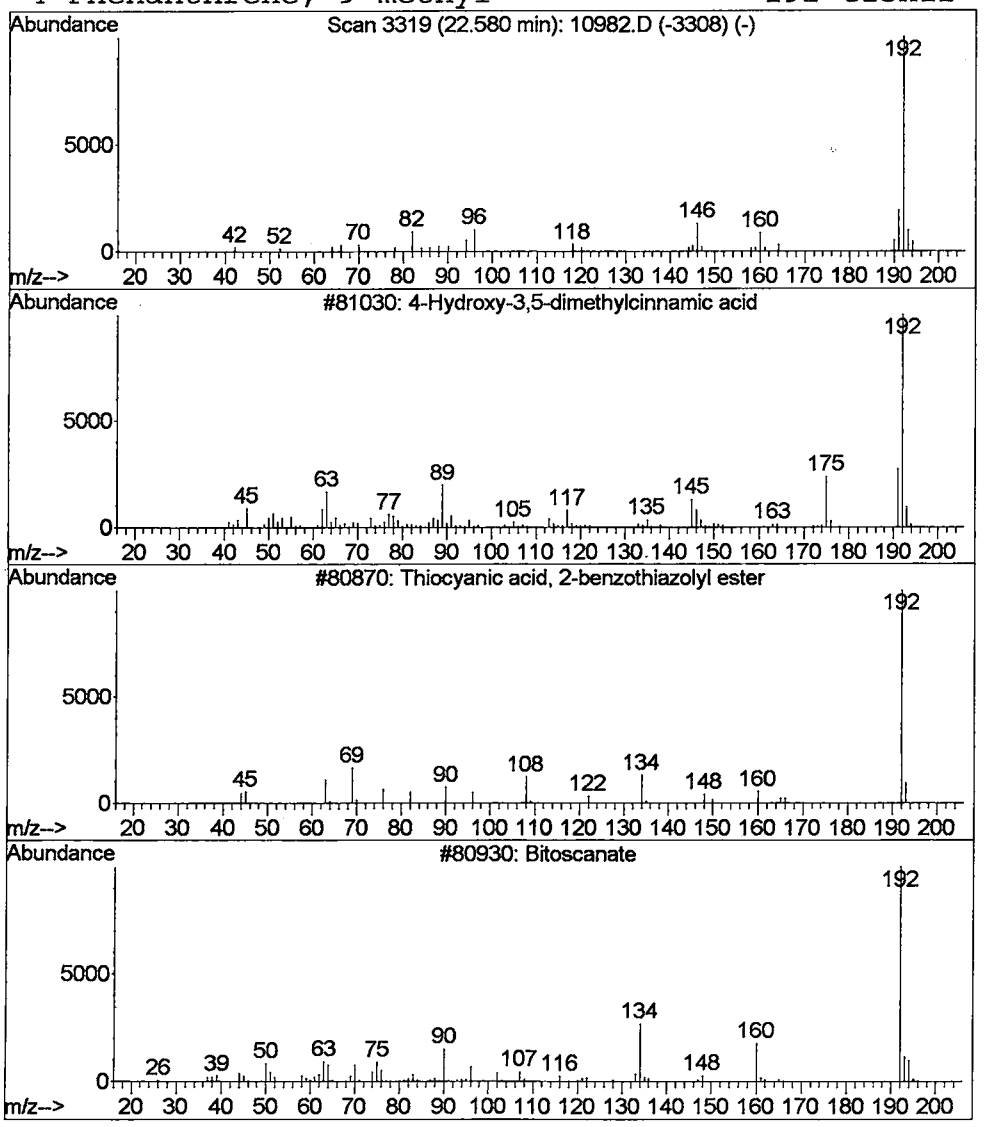
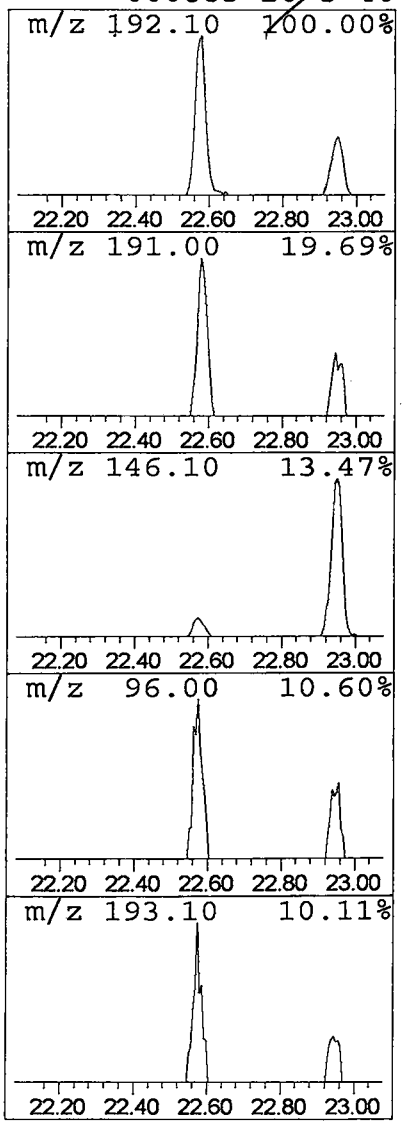
Peak Number 7 4-Hydroxy-3,5-dimethylcinna... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.58 | 0.34 ug/L | 438672 | Phenanthranene-d10 | 22.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Hydroxy-3,5-dimethylcinnamic acid | 192 | C11H12O3 | 1000132-15-8 | 53 |
| 2 | Thiocyanic acid, 2-benzothiazoly... | 192 | C8H4N2S2 | 006011-99-0 | 50 |
| 3 | Bitoscanate | 192 | C8H4N2S2 | 004044-65-9 | 47 |
| 4 | Phenanthrene, 9-methyl- | 192 | C15H12 | 000883-20-5 | 40 |



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Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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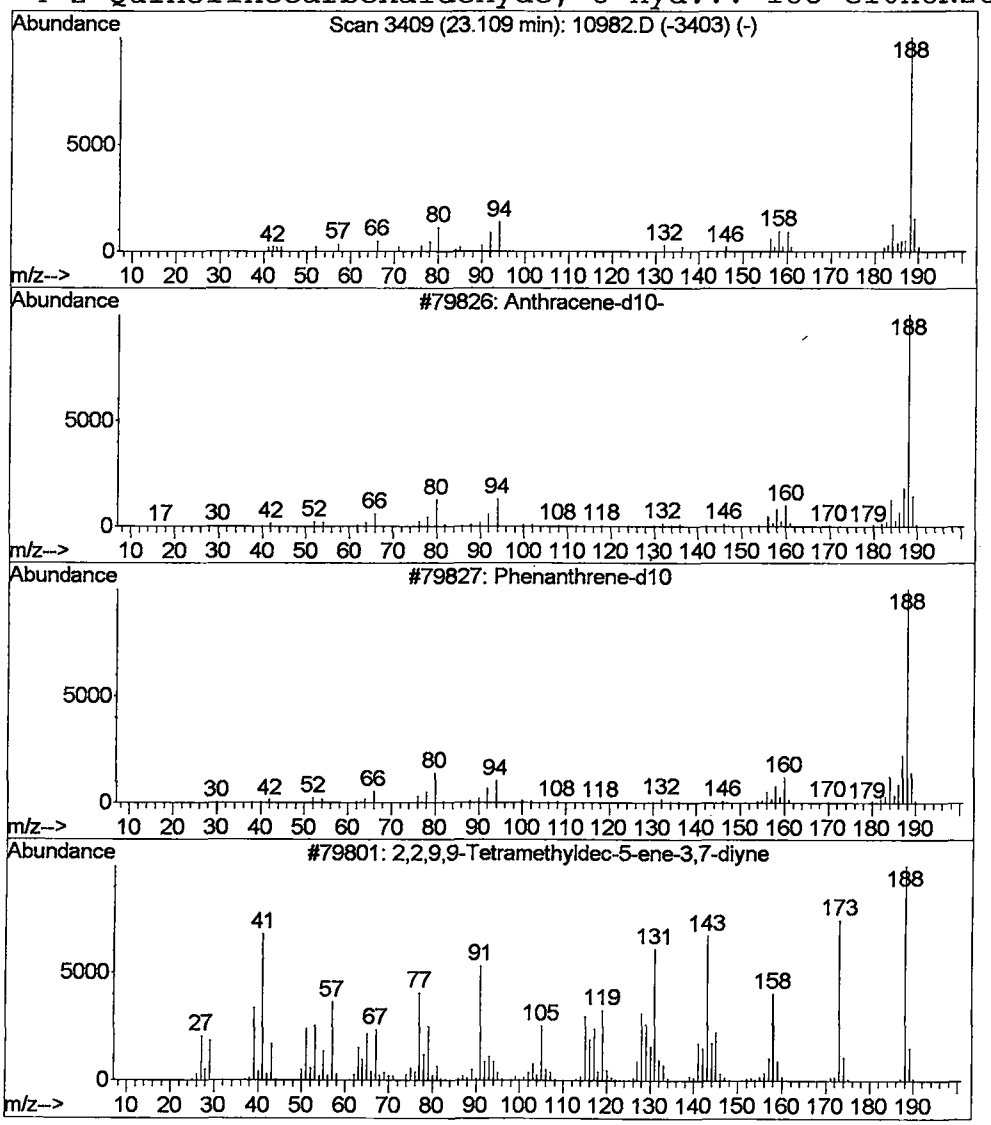
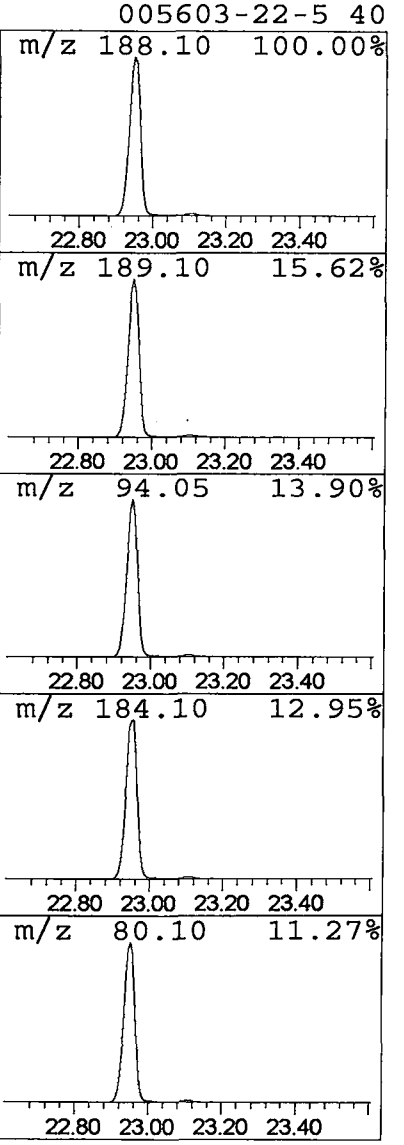
Peak Number 8 Anthracene-d10- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.11 | 0.43 ug/L | 550728 | Phenanthranene-d10 | 22.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene-d10- | 188 | C14D10 | 001719-06-8 | 94 |
| 2 | Phenanthrene-d10 | 188 | C14D10 | 001517-22-2 | 81 |
| 3 | 2,2,9,9-Tetramethyldec-5-ene-3,7... | 188 | C14H20 | 102745-35-7 | 52 |
| 4 | 2-Quinolinecarboxaldehyde, 8-hyd... | 188 | C10H8N2O2 | 005603-22-5 | 40 |



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Misc :
MS Integration Params: LSCINT.e

Vial: 11
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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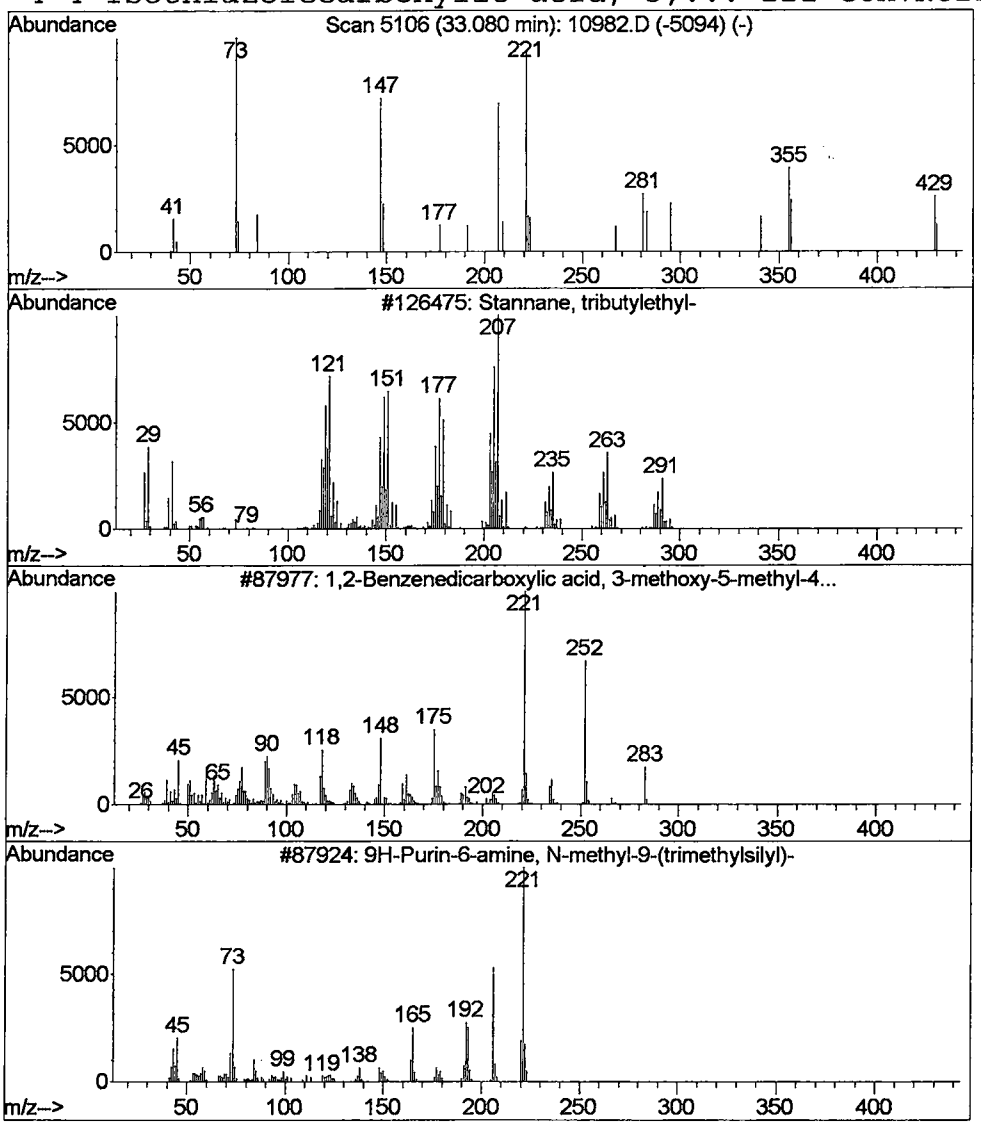
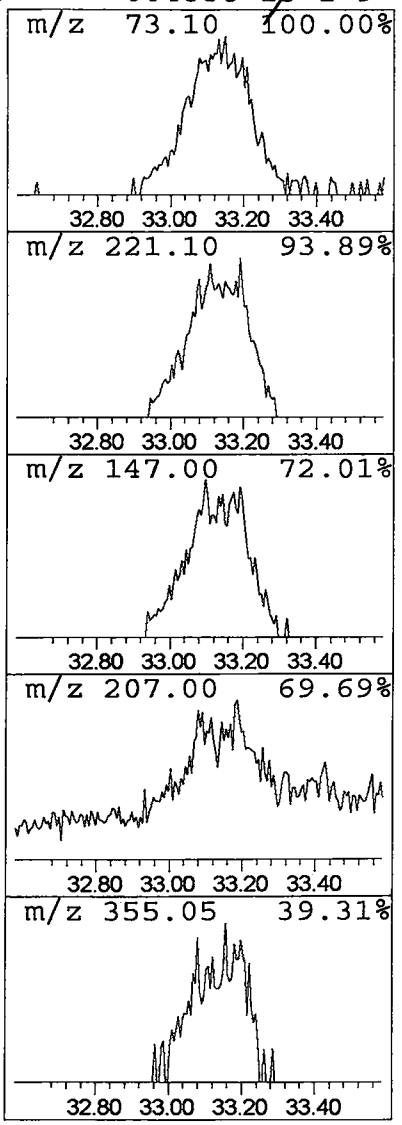
Peak Number 9 Stannane, tributylethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 33.08 | 0.41 ug/L | 344528 | Perylene-d12 | 34.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Stannane, tributylethyl- | 320 | C14H32Sn | 019411-60-0 | 10 |
| 2 | 1,2-Benzenedicarboxylic acid, 3-... | 283 | C12H13NO7 | 089586-30-1 | 10 |
| 3 | 9H-Purin-6-amine, N-methyl-9-(tr... | 221 | C9H15N5Si | 032865-83-1 | 10 |
| 4 | 4-Isothiazolecarboxylic acid, 3,... | 221 | C6H7NO2S3 | 004886-15-1 | 9 |



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Sample : 5/10 kb  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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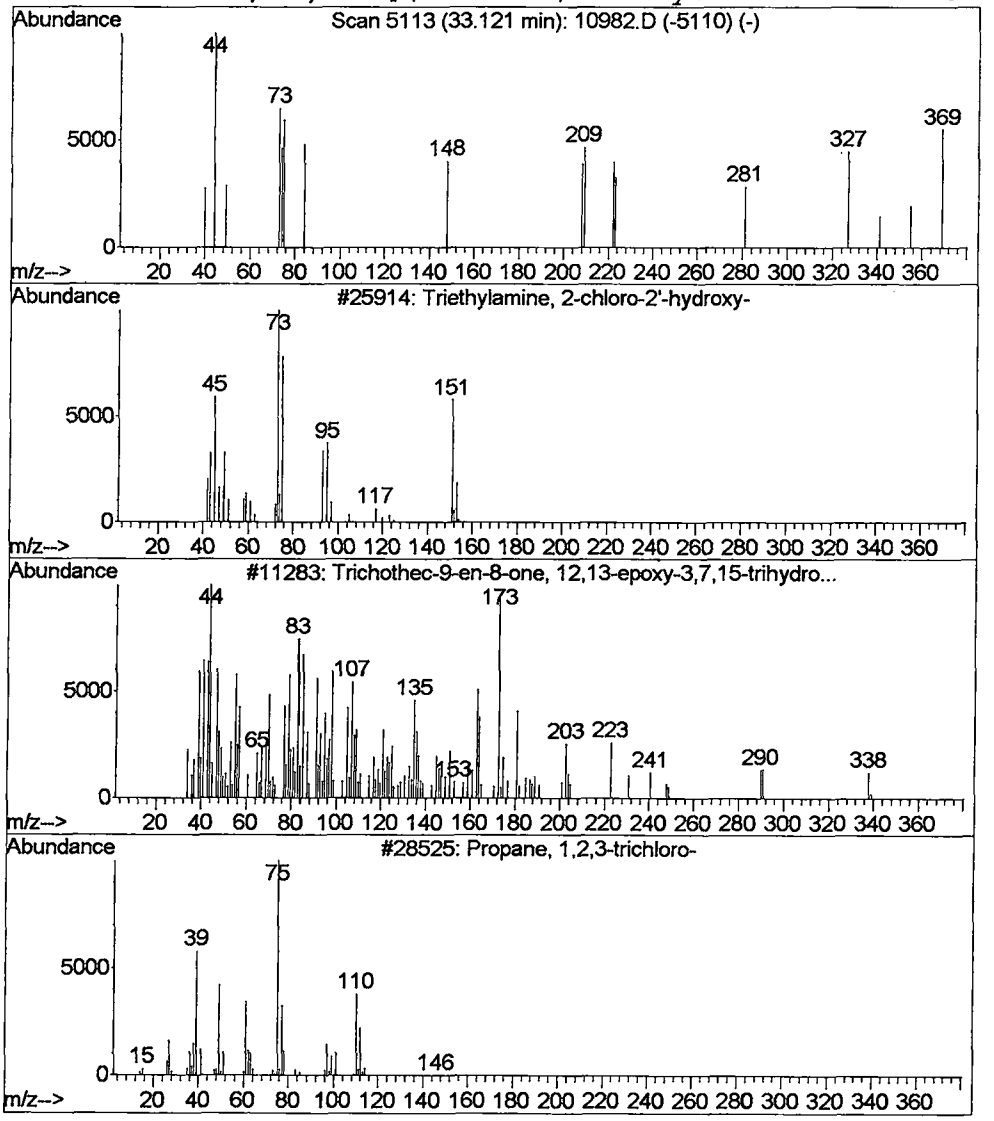
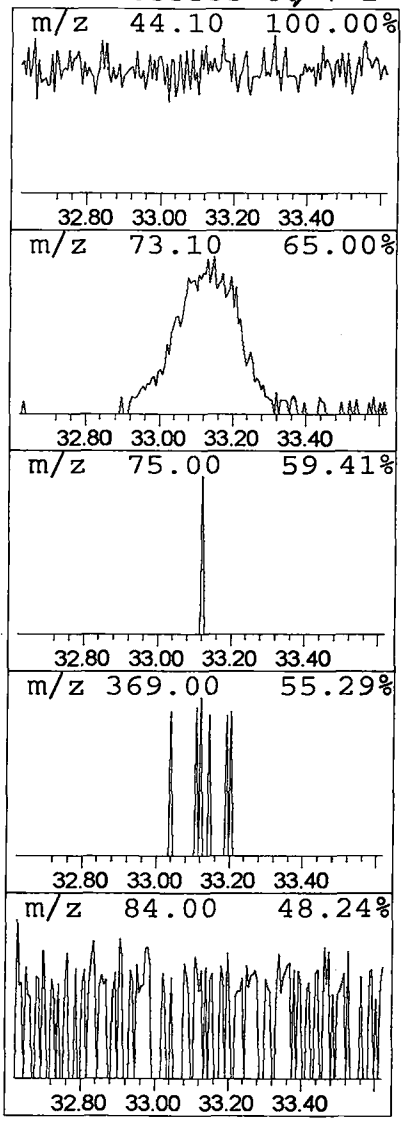
Peak Number 10 Triethylamine, 2-chloro-2'-... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 33.12 | 0.24 ug/L | 198989 | Perylene-d12 | 34.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triethylamine, 2-chloro-2'-hydroxy- | 151 | C6H14ClNO | 1000226-84-0 | 9 |
| 2 | Trichothec-9-en-8-one, 12,13-epo... | 338 | C17H22O7 | 054648-10-1 | 9 |
| 3 | Propane, 1,2,3-trichloro- | 146 | C3H5Cl3 | 000096-18-4 | 2 |
| 4 | Acetamide, N,N'-[(3.beta.)-18-hy... | 416 | C25H40N2O3 | 055555-60-7 | 2 |



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Sample : 5/10 kb  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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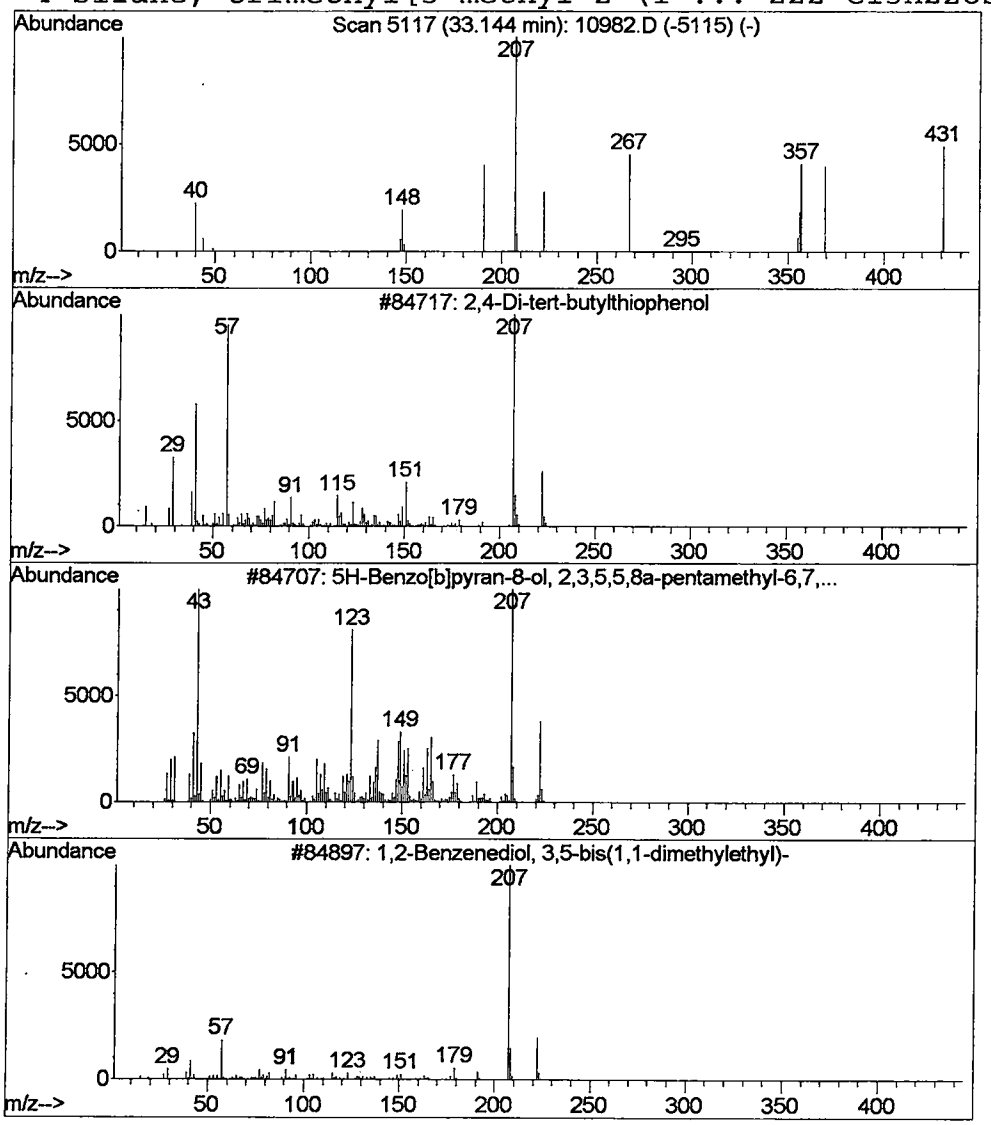
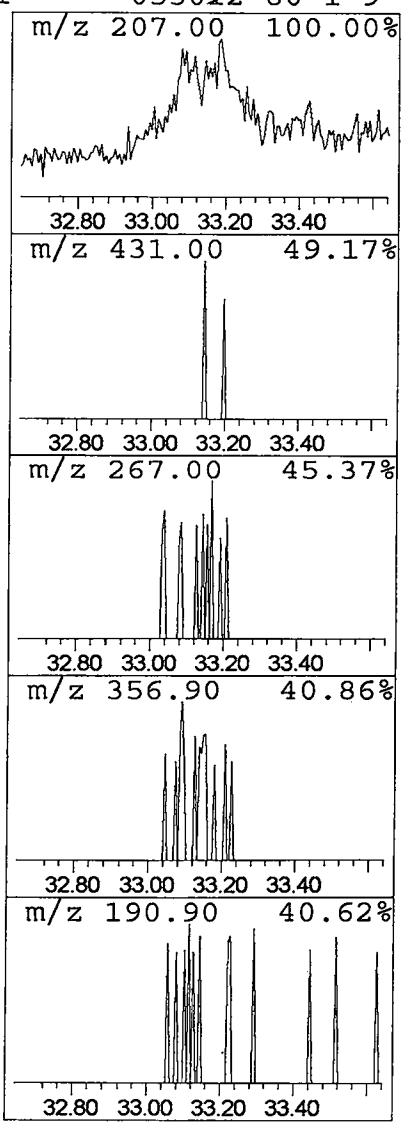
Peak Number 11 2,4-Di-tert-butylthiophenol Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 33.14 | 0.31 ug/L | 261602 | Perylene-d12 | 34.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Di-tert-butylthiophenol | 222 | C14H22S | 019728-43-9 | 9 |
| 2 | 5H-Benzo[b]pyran-8-ol, 2,3,5,5,8... | 222 | C14H22O2 | 097306-66-6 | 9 |
| 3 | 1,2-Benzenediol, 3,5-bis(1,1-dim... | 222 | C14H22O2 | 001020-31-1 | 9 |
| 4 | Silane, trimethyl[5-methyl-2-(1-... | 222 | C13H22OSi | 055012-80-1 | 9 |



Data File : C:\MSDCHEM\1\DATA\051402\10982.D Vial: 11
Acq On : 14 May 2002 9:39 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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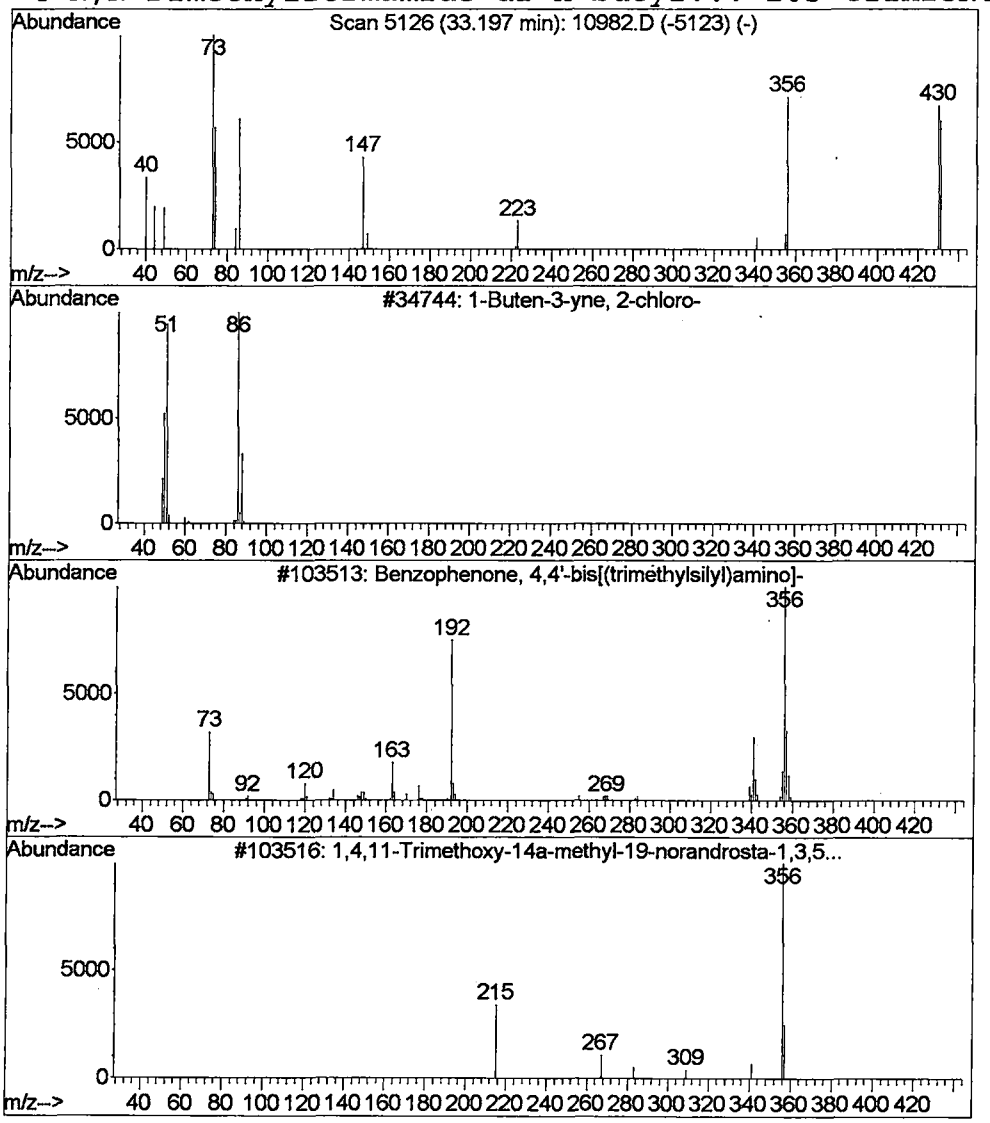
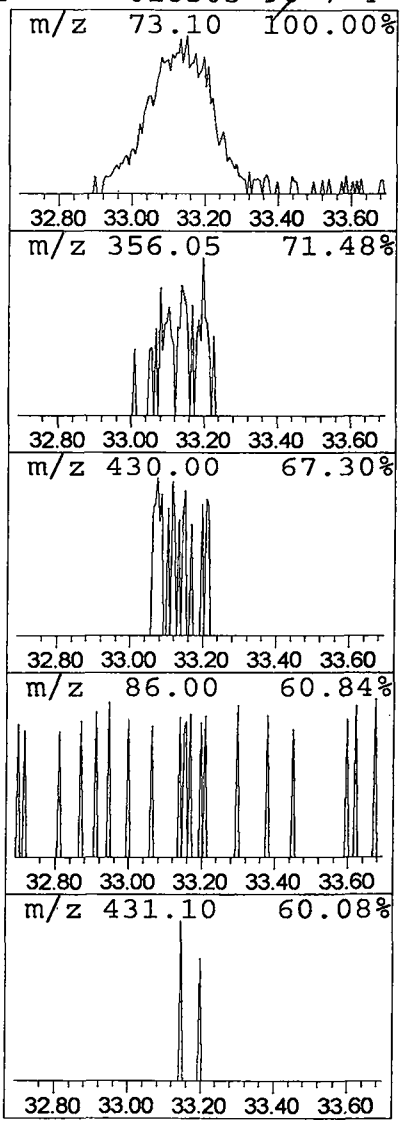
Peak Number 12 1-Buten-3-yne, 2-chloro- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 33.19 | 0.45 ug/L | 375920 | Perylene-d12 | 34.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Buten-3-yne, 2-chloro- | 86 | C4H3Cl | 017712-36-6 | 7 |
| 2 | Benzophenone, 4,4'-bis[(trimethy... | 356 | C19H28N2OSi2 | 031396-45-9 | 5 |
| 3 | 1,4,11-Trimethoxy-14a-methyl-19-... | 356 | C22H28O4 | 1000148-97-2 | 4 |
| 4 | N,N-Dimethylformamide di-n-butyl... | 203 | C11H25NO2 | 018503-90-7 | 4 |



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Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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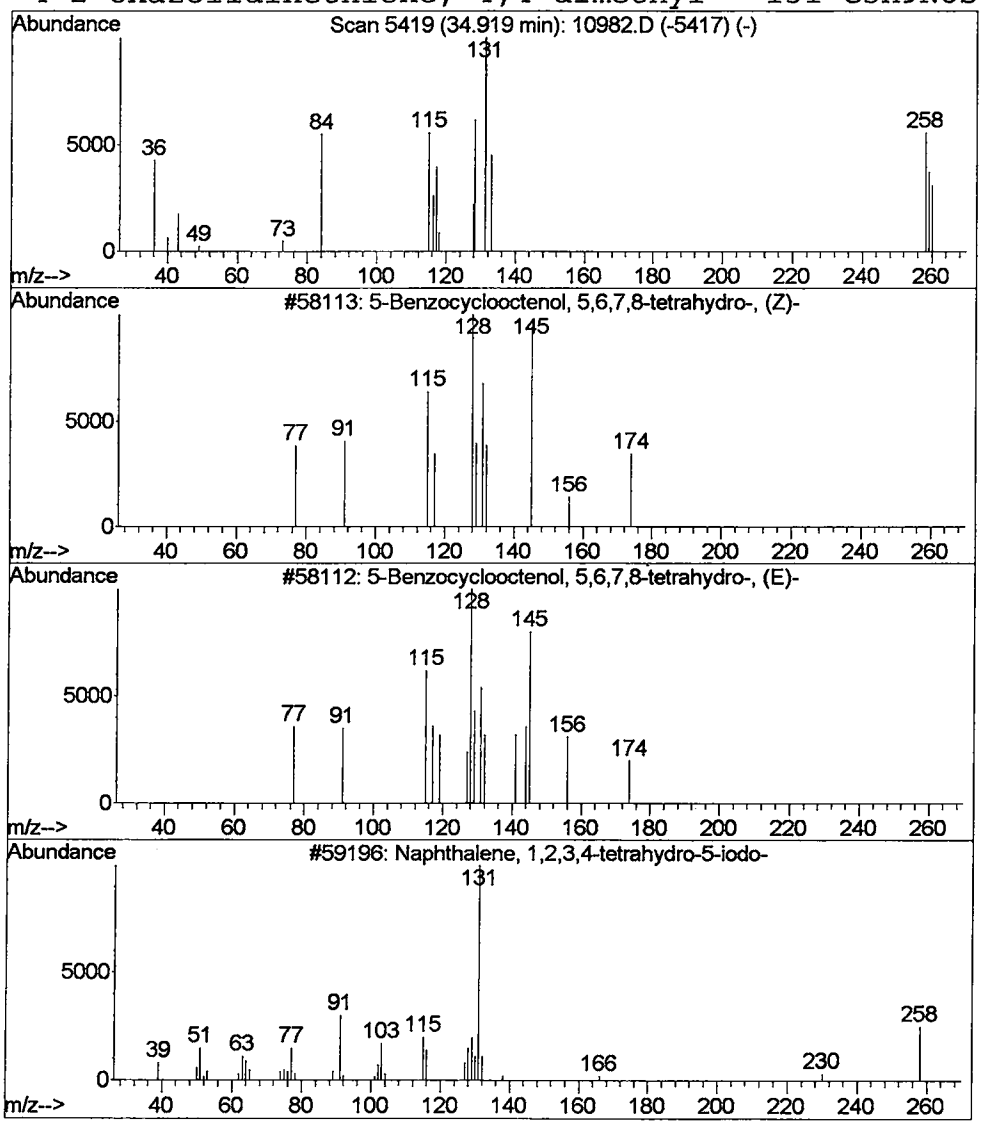
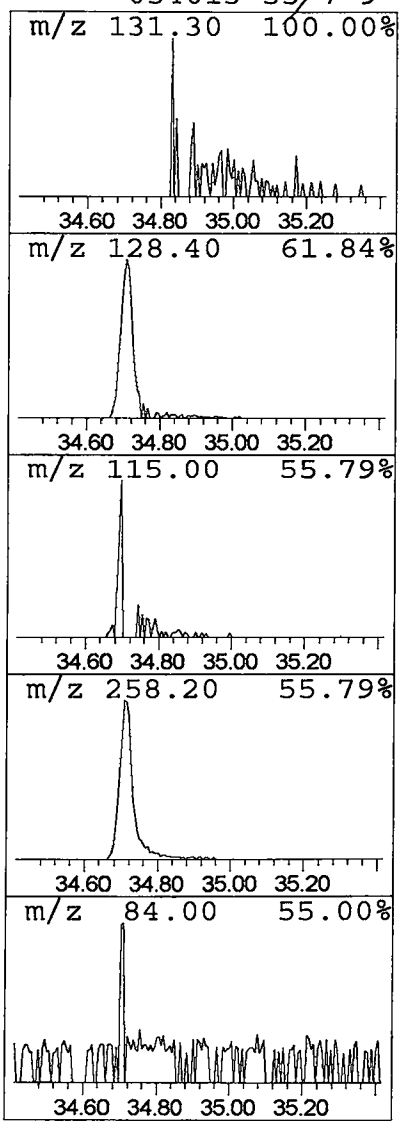
Peak Number 13 5-Benzocyclooctenol, 5,6,7,... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 34.92 | 0.48 ug/L | 404836 | Perylene-d12 | 34.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Benzocyclooctenol, 5,6,7,8-tet... | 174 | C12H14O | 064129-38-0 | 17 |
| 2 | 5-Benzocyclooctenol, 5,6,7,8-tet... | 174 | C12H14O | 069576-88-1 | 10 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 258 | C10H11I | 056804-95-6 | 9 |
| 4 | 2-Oxazolidinethione, 4,4-dimethyl- | 131 | C5H9NOS | 054013-55-7 | 9 |



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Sample : 5/10 kb  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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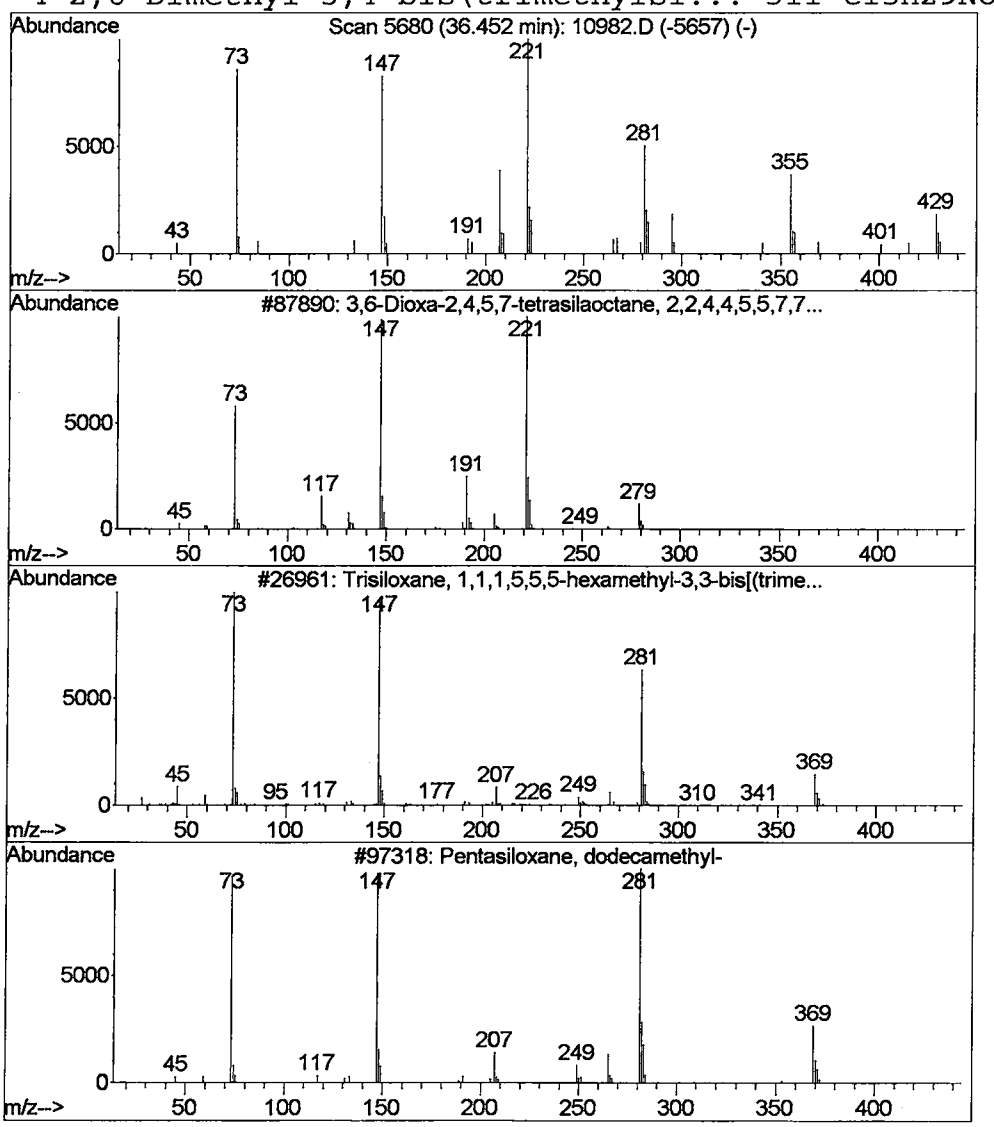
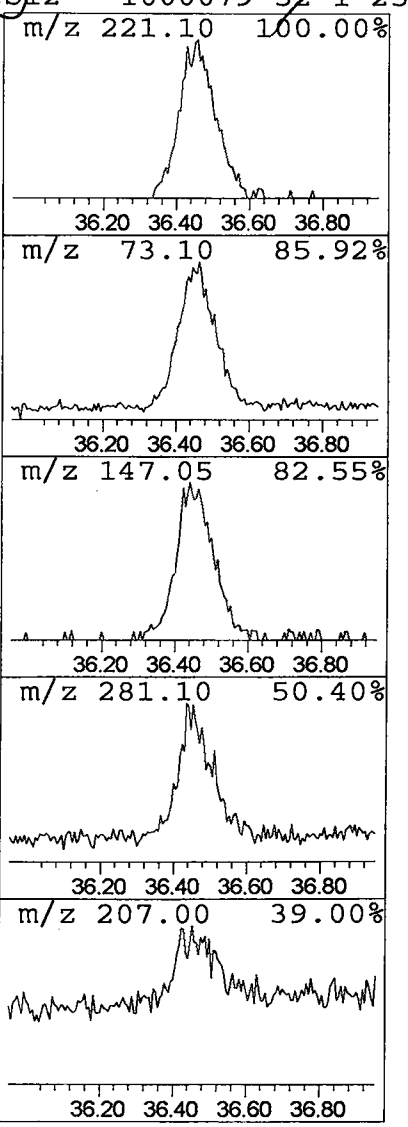
Peak Number 14 3,6-Dioxa-2,4,5,7-tetrasila... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 36.45 | 1.78 ug/L | 1491970 | Perylene-d12 | 34.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,6-Dioxa-2,4,5,7-tetrasilaoctan... | 294 | C10H30O2Si4 | 004342-25-0 | 37 |
| 2 | Trisiloxane, 1,1,1,5,5,5-hexamet... | 384 | C12H36O4Si5 | 003555-47-3 | 27 |
| 3 | Pentasiloxane, dodecamethyl- | 384 | C12H36O4Si5 | 000141-63-9 | 27 |
| 4 | 2,6-Dimethyl-3,4-bis(trimethylsi... | 311 | C15H29NO2Si2 | 1000079-52-1 | 25 |



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Sample : 5/10 kb  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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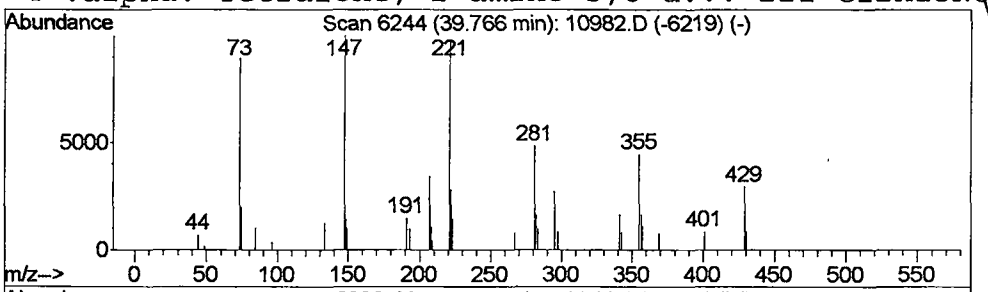
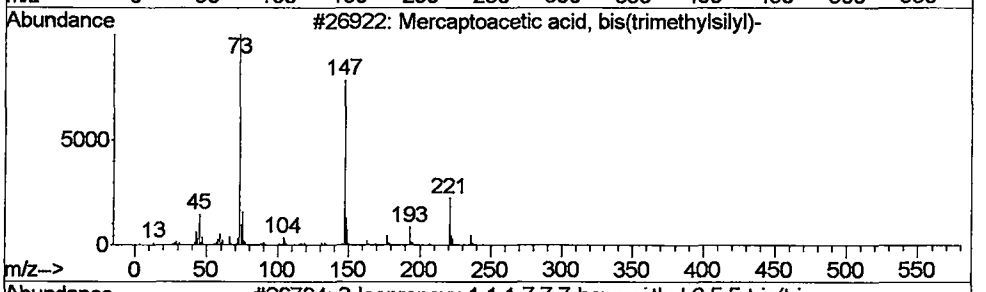
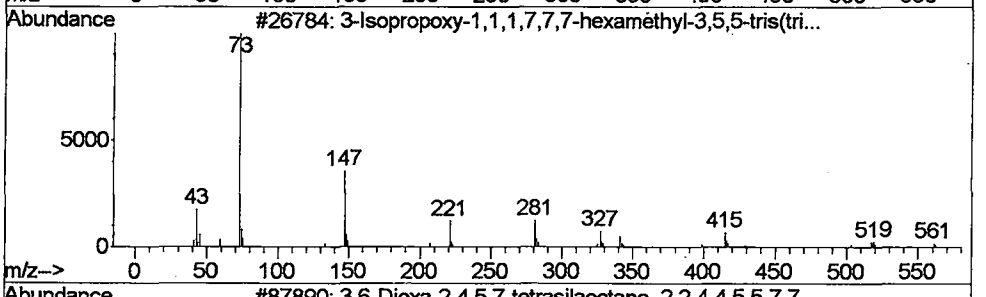
Peak Number 15 Mercaptoacetic acid, bis(tr... Concentration Rank 3

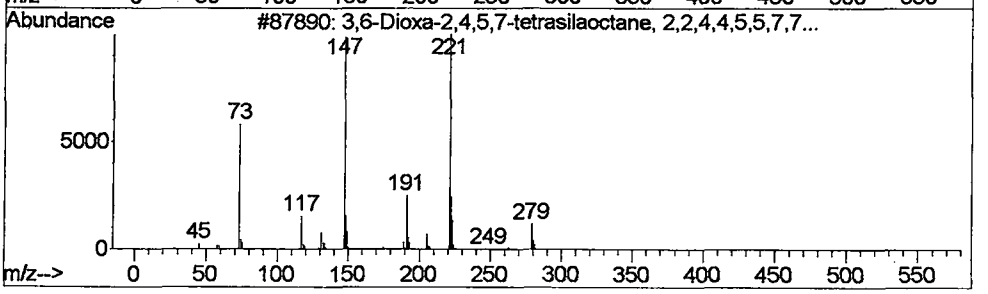
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 39.77 | 1.60 ug/L | 1341980 | Perylene-d12 | 34.71 |

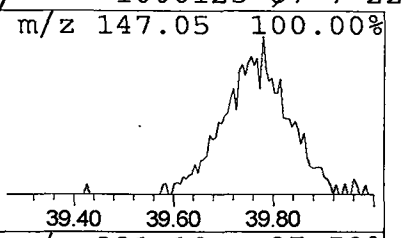
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Mercaptoacetic acid, bis(trimeth... | 236 | C8H20O2SSi2 | 006398-62-5 | 38 |
| 2 | 3-Isopropoxy-1,1,1,7,7,7-hexamet... | 576 | C18H52O7Si7 | 071579-69-6 | 38 |
| 3 | 3,6-Dioxa-2,4,5,7-tetrasilaoctan... | 294 | C10H30O2Si4 | 004342-25-0 | 37 |
| 4 | .alpha.-Tetralone, 2-amino-5,6-d... | 221 | C12H15NO3 | 1000125-87-7 | 22 |

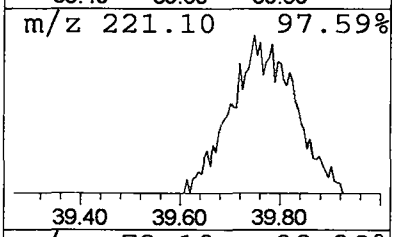


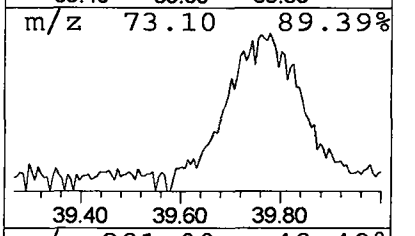



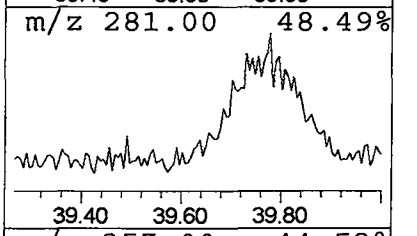



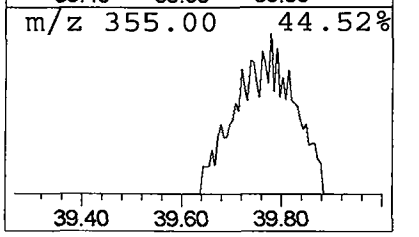



Operator ID: Mclean  Date Acquired: 14 May 2002  9:39 pm
Data File: C:\MSDCHEM\1\DATA\051402\10982.D
Name: 5/10 kb
Misc:
Method: C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title: 508 Modified GC/MS scan
Library Searched: C:\DATABASE\NIST98.L

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard--- # | RT | Resp | Conc |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodic... | 3.33 | 0.2 | ug/L | 224338 | 1 | 9.94 | 36963800 | 40.0 |
| Acetonitrile, dic... | 3.62 | 0.5 | ug/L | 417313 | 1 | 9.94 | 36963800 | 40.0 |
| Acetic acid, chlo... | 3.75 | 0.4 | ug/L | 394068 | 1 | 9.94 | 36963800 | 40.0 |
| dl-Isocitric acid... | 5.10 | 0.2 | ug/L | 200632 | 1 | 9.94 | 36963800 | 40.0 |
| 2-Pentanone, 4-hy... | 5.98 | 19.2 | ug/L | 17787600 | 1 | 9.94 | 36963800 | 40.0 |
| 4-Penten-2-one, 4... | 7.72 | 0.5 | ug/L | 419972 | 1 | 9.94 | 36963800 | 40.0 |
| 4-Hydroxy-3,5-dim... | 22.58 | 0.3 | ug/L | 438672 | 4 | 22.95 | 51763700 | 40.0 |
| Anthracene-d10- | 23.11 | 0.4 | ug/L | 550728 | 4 | 22.95 | 51763700 | 40.0 |
| Stannane, tributy... | 33.08 | 0.4 | ug/L | 344528 | 6 | 34.71 | 33620600 | 40.0 |
| Triethylamine, 2-... | 33.12 | 0.2 | ug/L | 198989 | 6 | 34.71 | 33620600 | 40.0 |
| 2,4-Di-tert-butyl... | 33.14 | 0.3 | ug/L | 261602 | 6 | 34.71 | 33620600 | 40.0 |
| 1-Buten-3-yne, 2-... | 33.19 | 0.4 | ug/L | 375920 | 6 | 34.71 | 33620600 | 40.0 |
| 5-Benzocycloocten... | 34.92 | 0.5 | ug/L | 404836 | 6 | 34.71 | 33620600 | 40.0 |
| 3,6-Dioxa-2,4,5,7... | 36.45 | 1.8 | ug/L | 1491970 | 6 | 34.71 | 33620600 | 40.0 |
| Mercaptoacetic ac... | 39.77 | 1.6 | ug/L | 1341980 | 6 | 34.71 | 33620600 | 40.0 |