User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 04/05/2002 Time: 08:52:15

Sample: AE04850
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 4/5/02 08:51 Ended: 4/5/02 08:51 Analyst: DLV
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | Other unknown compounds | | . | | |
| 2 | Surr_2,4-DDD | | 120 | | 5.0 |

**Comments for Sample AE04850 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 04-05-2002 Time: 08:53:02

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 above its acceptance range.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAR3002\4850.D Vial: 7
Acq On : 29 Mar 2002 8:54 pm Operator:
Sample : gc/ms scan 3/6 fb Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: Apr 2 10:44 2002 Quant Results File: GCMS0308.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Fri Mar 29 10:31:28 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0308

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 12.25 | 152 | 521685 | 20.00 | ug/l | -0.10 |
| 10) Naphthalene-d8 | 15.88 | 136 | 1926663 | 20.00 | ug/l | -0.11 |
| 17) Acenaphthene-d10 | 21.19 | 164 | 1071290 | 20.00 | ug/l | -0.12 |
| 29) Phenanthrene-d10 | 25.63 | 188 | 1539261 | 20.00 | ug/l | -0.13 |
| 38) Chrysene-d12 | 33.69 | 240 | 784392 | 20.00 | ug/l | -0.15 |
| 44) Perylene-d12 | 37.94 | 264 | 444962 | 20.00 | ug/l | -0.19 |
| **System Monitoring Compounds** | | | | | | |
| 37) 2,4-DDD | 30.71 | 235 | 92521 | 5.99 | ug/mL | 0.21 |
| Spiked Amount 5.000 | | | Recovery = 119.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-nitroso-dimethyl amine | 0.00 | 74 | 0 | N.D. | | |
| 3) bis(2-Chloroethyl)ether | 11.51 | 93 | 223 | 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-Chloropropan | 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 | 14.60 | 82 | 448 | N.D. | | |
| 13) bis(2-Chloroethoxy)methane | 0.00 | 93 | 0 | N.D. | | |
| 14) 1,2,4-Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 15) Naphthalene | 15.94 | 128 | 622 | N.D. | | |
| 16) Hexachlorobutadiene | 0.00 | 225 | 0 | N.D. | | |
| 18) Hexachlorocyclopentadiene | 0.00 | 237 | 0 | N.D. | | |
| 19) 2-Chloronaphthalene | 19.47 | 162 | 201 | N.D. | | |
| 20) Dimethylphthalate | 20.53 | 163 | 328 | N.D. | | |
| 21) 2,6-Dinitrotoluene | 0.00 | 165 | 0 | N.D. | | |
| 22) Acenaphthylene | 0.00 | 152 | 0 | N.D. | | |
| 23) Acenaphthene | 0.00 | 153 | 0 | N.D. | | |
| 24) 2,4-Dinitrotoluene | 21.45 | 165 | 307 | N.D. | | |
| 25) Diethylphthalate | 22.67 | 149 | 1685 | N.D. | | |
| 26) 4-Chlorophenyl-phenylether | 0.00 | 204 | 0 | N.D. | | |
| 27) Fluorene | 22.81 | 166 | 142 | N.D. | | |
| 28) Azobenzen/ 1,2-Diphenylhyd | 0.00 | 77 | 0 | N.D. | | |

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAR3002\4850.D Vial: 7
Acq On : 29 Mar 2002 8:54 pm Operator:
Sample : gc/ms scan 3/6 fb Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: Apr 2 10:44 2002 Quant Results File: GCMS0308.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Fri Mar 29 10:31:28 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0308

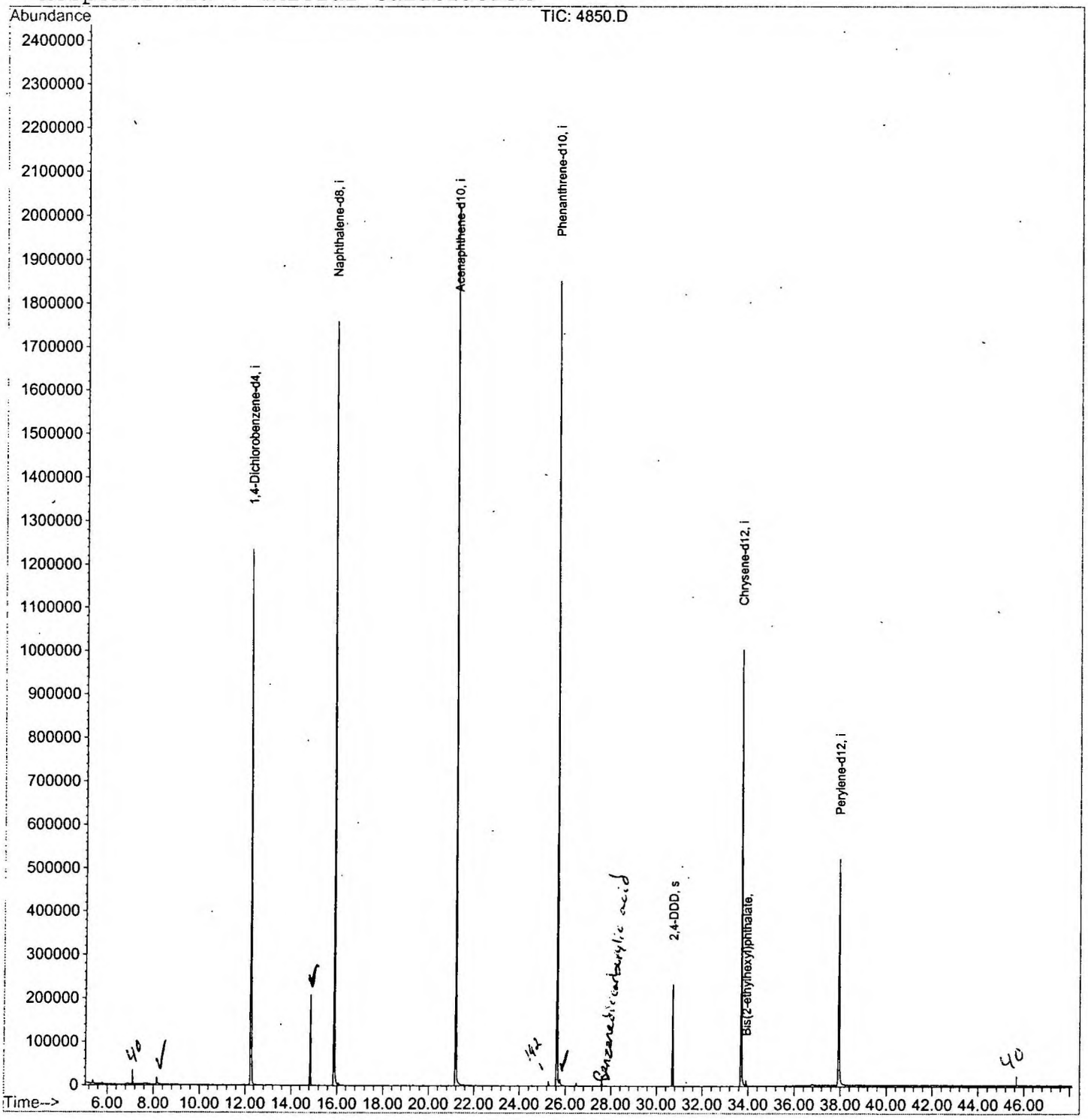
| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 30) | N-Nitrosodiphenylamine | 0.00 | 168 | 0 | N.D. | |
| 31) | 4-Bromophenyl-phenylether | 0.00 | 248 | 0 | N.D. | |
| 32) | Hexachlorobenzene | 0.00 | 284 | 0 | N.D. | |
| 33) | Phenanthrene | 25.69 | 178 | 1592 | N.D. | |
| 34) | Anthracene | 25.84 | 178 | 570 | N.D. | |
| 35) | Di-n-butylphthalate | 27.60 | 149 | 14744 | N.D. | |
| 36) | Fluoranthene | 29.33 | 202 | 383 | N.D. | |
| 39) | Pyrene | 30.00 | 202 | 254 | N.D. | |
| 40) | Butylbenzylphthalate | 32.12 | 149 | 580 | N.D. | |
| 41) | Benzo(a)anthracene | 33.76 | 228 | 3353 | N.D. | |
| 42) | Bis(2-ethylhexyl)phthalate | 33.91 | 149 | 8092 | 0.26 ug/l # | 94 |
| 43) | Chrysene | 33.76 | 228 | 3484 | N.D. | |
| 45) | Di-n-Octylphthalate | 35.64 | 149 | 2563 | N.D. | |
| 46) | Benzo(b)fluoranthene | 36.75 | 252 | 3510 | N.D. | |
| 47) | Benzo(k)fluoranthene | 36.75 | 252 | 3770 | N.D. | |
| 48) | Benzo(a)pyrene | 37.73 | 252 | 2131 | N.D. | |
| 49) | Indeno(1,2,3-cd)pyrene | 42.06 | 276 | 2257 | N.D. | |
| 50) | Dibenz(a,h)anthracene | 42.15 | 278 | 2089 | N.D. | |
| 51) | Benzo(g,h,i)perylene | 43.28 | 276 | 2696 | N.D. | |

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

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR3002\4850.D Vial: 7
Acq On : 29 Mar 2002 8:54 pm Operator:
Sample : gc/ms scan 3/6 fb Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: Apr 2 10:44 2002 Quant Results File: GCMS0308.RES

Method : C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Fri Mar 29 10:31:28 2002
Response via : Initial Calibration



# LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\MAR3002\4850.D  Vial: 7
Acq On : 29 Mar 2002 8:54 pm  Operator:
Sample : gc/ms scan 3/6 fb  Inst : GC/MS 209
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT:P

Method : C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title : 209 625/TCLP calibration table
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 | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.146 | 333 | 338 | 349 | rBV | 16861 | 44220 | 1.07% | 0.231% |
| 2 | 12.250 | 779 | 785 | 803 | rBV | 1233766 | 2813685 | 67.99% | 14.667% |
| 3 | 14.848 | 1062 | 1068 | 1074 | rVB | 207660 | 397116 | 9.60% | 2.070% |
| 4 | 15.885 | 1175 | 1181 | 1195 | rBV | 1758904 | 3627027 | 87.65% | 18.906% |
| 5 | 21.191 | 1752 | 1759 | 1779 | rBV | 2028972 | 4138267 | 100.00% | 21.571% |
| 6 | 25.634 | 2236 | 2243 | 2254 | rBV2 | 1851574 | 3864978 | 93.40% | 20.147% |
| 7 | 25.772 | 2254 | 2258 | 2268 | rVB | 14437 | 41648 | 1.01% | 0.217% |
| 8 | 30.711 | 2791 | 2796 | 2804 | rBV | 233335 | 455264 | 11.00% | 2.373% |
| 9 | 33.695 | 3114 | 3121 | 3140 | rBV2 | 1004216 | 2275923 | 55.00% | 11.864% |
| 10 | 37.936 | 3574 | 3583 | 3604 | rBV2 | 520905 | 1525986 | 36.88% | 7.954% |

Sum of corrected areas: 19184114

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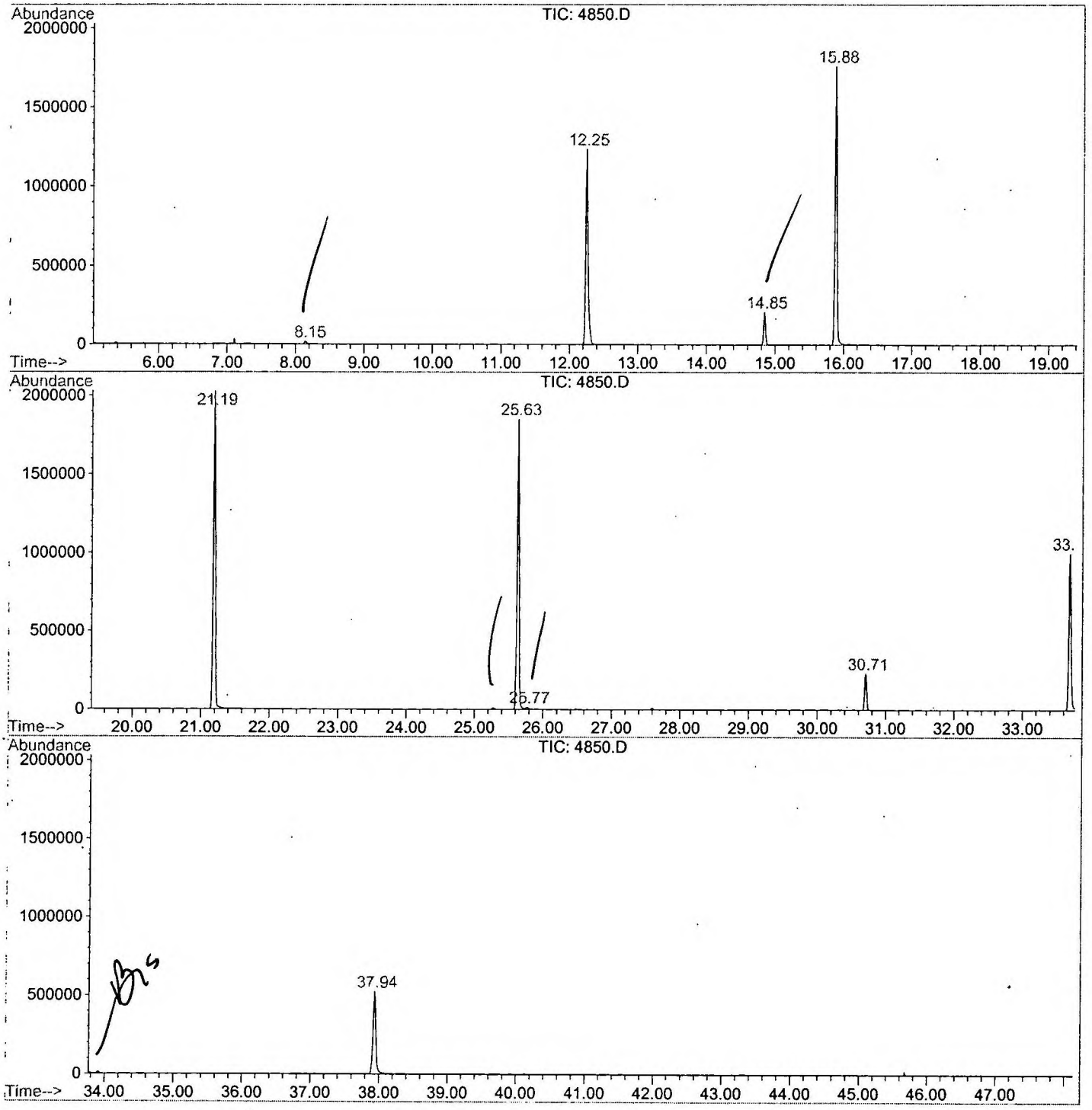
# LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\MAR3002\4850.D
Operator :
Acquired : 29 Mar 2002 8:54 pm using AcqMethod GCMS0308
Instrument : GC/MS 209
Sample Name: gc/ms scan 3/6 fb
Misc Info :
Vial Number: 7
Quant File :GCMS0308.RES (RTE Integrator)




4850.D GCMS0308.M Tue Apr 02 11:04:27 2002

# Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\MAR3002\4850.D  Vial: 7
Acq On : 29 Mar 2002 8:54 pm  Operator:
Sample : gc/ms scan 3/6 fb  Inst : GC/MS 209
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.P

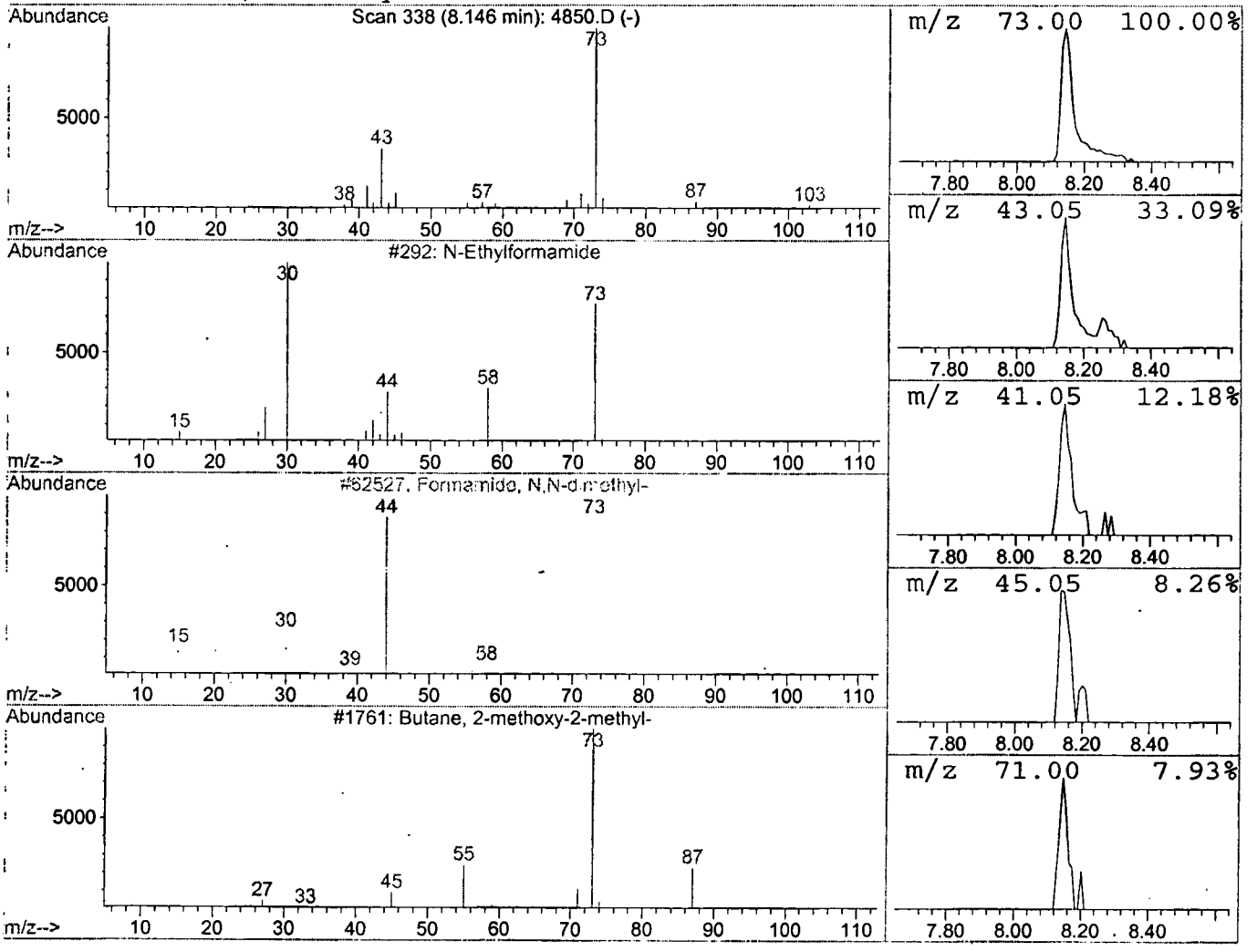
Quant Method : C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

**********

Peak Number 1 N-Ethylformamide  Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.15 | 0.31 ug/l | 44220 | 1,4-Dichlorobenzene-d4 | 12.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 2 | Formamide, N,N-dimethyl- | 73 | C3H7NO | 000068-12-2 | 9 |
| 3 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 9 |
| 4 | 3-Pentanol, 3-methyl- | 102 | C6H14O | 000077-74-7 | 9 |



# Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\MAR3002\4850.D  Vial: 7
Acq On : 29 Mar 2002 8:54 pm  Operator:
Sample : gc/ms scan 3/6 fb  Inst : GC/MS 209
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.P

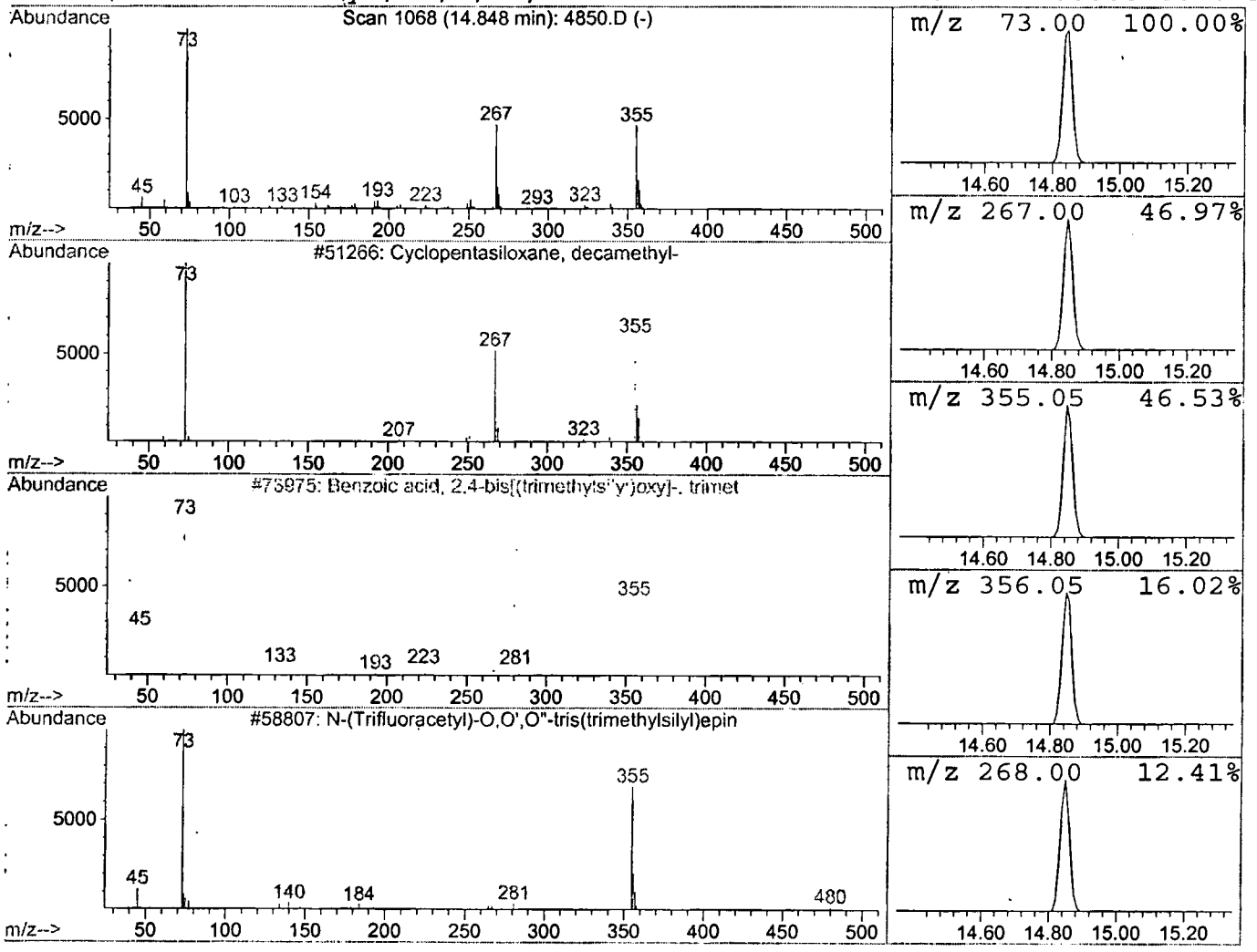
Quant Method : C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

**********

Peak Number 2 Cyclopentasiloxane, decamethyl Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.85 | 2.19 ug/l | 397116 | Naphthalene-d8 | 15.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentasiloxane, decamethyl- | 370 | C10H30O5Si5 | 000541-02-6 | 91 |
| 2 | Benzoic acid, 2,4-bis[(trimethylsil | 370 | C16H30O4Si3 | 010586-16-0 | 38 |
| 3 | N-(Trifluoracetyl)-O,O',O"-tris(tri | 495 | C20H36F3NO4Si3 | 000000-00-0 | 38 |
| 4 | N-(Trifluoroacetyl)-N,O,O',O''-tetr | 553 | C22H42F3NO4Si4 | 000000-00-0 | 32 |



# Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\MAR3002\4850.D  Vial: 7
Acq On : 29 Mar 2002 8:54 pm  Operator:
Sample : gc/ms scan 3/6 fb  Inst : GC/MS 209
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.P

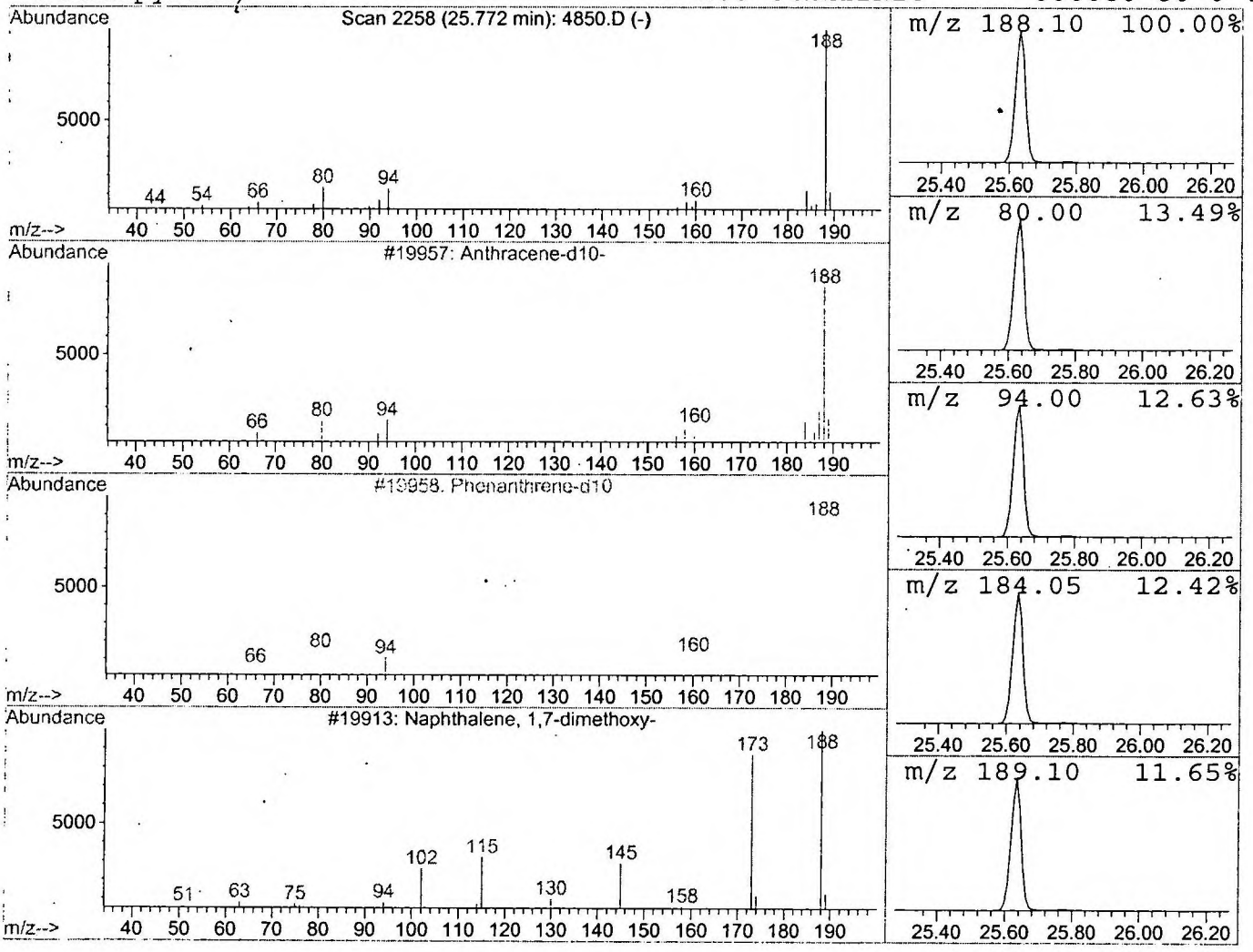
Quant Method : C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

**********

Peak Number 3 Anthracene-d10-  Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.77 | 0.22 ug/l | 41648 | Phenanthrene-d10 | 25.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene-d10- | 188 | C14D10 | 001719-06-8 | 95 |
| 2 | Phenanthrene-d10 | 188 | C14D10 | 001517-22-2 | 50 |
| 3 | Naphthalene, 1,7-dimethoxy- | 188 | C12H12O2 | 005309-18-2 | 42 |
| 4 | Antipyrine | 188 | C11H12N2O | 000060-80-0 | 40 |



# Tentatively Identified Compound (LSC) summary

Operator ID: Date Acquired: 29 Mar 2002 8:54 pm
Data File: C:\HPCHEM\1\DATA\MAR3002\4850.D
Name: gc/ms scan 3/6 fb
Misc:
Method: C:\HPCHEM\1\METHODS\GCMS0308.M (RTE Integrator)
Title: 209 625/TCLP calibration table
Library Searched: C:\DATABASE\NBS75K.L

| TIC Top Hit name | RT | EstConc | Units | Area | IntStd | ISRT | ISArea | ISConc |
|---|---|---|---|---|---|---|---|---|
| N-Ethylformamide | 8.15 | 0.3 | ug/l | 44220 | ISTD01 | 12.25 | 2813690 | 20.0 |
| Cyclopentasiloxane, | 14.85 | 2.2 | ug/l | 397116 | ISTD02 | 15.89 | 3627030 | 20.0 |
| Anthracene-d10- | 25.77 | 0.2 | ug/l | 41648 | ISTD04 | 25.63 | 3864980 | 20.0 |

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