User: Galos, Marie
Westchester Dept. of Labs & Research
Date: 11/05/2001 Time: 12:50:55

Sample: AD24429
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 11/5/01 12:50 Ended: 11/5/01 12:50 Analyst: MG
Page: 1

| | Compound Name | Vial | Result |
|---|---|---|---|
| 1 | Other unknown compounds | | see comment |

**Comments for Sample AD24429 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Galos, Marie
Date: 11-05-2001 Time: 12:50:59

A scan of the extract prepared for the 508 analysis, from 35-550 amu using a mass spectrometer, does not reveal the presence of non-target compounds.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV0201\24429.D Vial: 2
Acq On : 2 Nov 2001 4:02 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 16:51 2001 Quant Results File: NP103001.RES

Quant Method : C:\HPCHEM\1\METHODS\NP103001.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Fri Nov 02 16:41:16 2001
Response via : Initial Calibration
DataAcq Meth : NP103001

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.71 | 152 | 749088 | 20.00 | ug/l | -0.01 |
| 19) Naphthalene-d8 | 15.32 | 136 | 3018508 | 20.00 | ug/l | -0.01 |
| 31) Acenaphthene-d10 | 20.60 | 164 | 1506547 | 20.00 | ug/l | -0.01 |
| 49) Phenanthrene-d10 | 25.02 | 188 | 2212181 | 20.00 | ug/l | -0.01 |
| 59) Chrysene-d12 | 33.07 | 240 | 1609846 | 20.00 | ug/l | 0.00 |
| 68) Perylene-d12 | 37.16 | 264 | 1207756 | 20.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 0.00 | 112 | 0 | 0.00 | ug/l | |
| Spiked Amount 75.000 | | | Recovery = | 0.00% | | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ug/l | |
| Spiked Amount 75.000 | | | Recovery = | 0.00% | | |
| 6) 2-Chlorophenol-d4 | 11.72 | 132 | 460 | 0.01 | ug/l | 0.48 |
| Spiked Amount 75.000 | | | Recovery = | 0.01% | | |
| 7) 1,2-Dichlorobenzene-d4 | 12.24 | 152 | 8432 | 0.25 | ug/l | -0.01 |
| Spiked Amount 50.000 | | | Recovery = | 0.50% | | |
| 20) Nitrobenzene-d5 | 0.00 | 82 | 0 | 0.00 | ug/l | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 32) 2-Fluorobiphenyl | 18.75 | 172 | 3479 | 0.04 | ug/l | 0.13 |
| Spiked Amount 50.000 | | | Recovery = | 0.08% | | |
| 33) 2,4,6-Tribromophenol | 0.00 | 330 | 0 | 0.00 | ug/l | |
| Spiked Amount 75.000 | | | Recovery = | 0.00% | | |
| 62) Terphenyl-d14 | 0.00 | 244 | 0 | 0.00 | ug/l | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Pyridine | 0.00 | 79 | 0 | N.D. | | |
| 3) N-nitroso-dimethyl amine | 0.00 | 74 | 0 | N.D. | | |
| 8) Phenol | 0.00 | 94 | 0 | N.D. | | |
| 9) bis(2-Chloroethyl)ether | 0.00 | 93 | 0 | N.D. | | |
| 10) 2-Chlorophenol | 0.00 | 128 | 0 | N.D. | | |
| 11) 1,3-Dichlorobenzene | 0.00 | 146 | 0 | N.D. | | |
| 12) 1,4-Dichlorobenzene | 0.00 | 146 | 0 | N.D. | | |
| 13) 1,2-Dichlorobenzene | 0.00 | 146 | 0 | N.D. | | |
| 14) 2-Methylphenol | 0.00 | 108 | 0 | N.D. | | |
| 15) 2,2'-oxybis(1-Chloropropan | 0.00 | 45 | 0 | N.D. | | |
| 16) 3&4-Methylphenol | 0.00 | 108 | 0 | N.D. | | |
| 17) N-Nitroso-di-n-propylamine | 0.00 | 70 | 0 | N.D. | | |
| 18) Hexachloroethane | 0.00 | 117 | 0 | N.D. | | |
| 21) Nitrobenzene | 0.00 | 77 | 0 | N.D. | | |
| 22) Isophorone | 0.00 | 82 | 0 | N.D. | | |

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV0201\24429.D Vial: 2
Acq On : 2 Nov 2001 4:02 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 16:51 2001 Quant Results File: NP103001.RES

Quant Method : C:\HPCHEM\1\METHODS\NP103001.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Fri Nov 02 16:41:16 2001
Response via : Initial Calibration
DataAcq Meth : NP103001

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 23) 2-Nitrophenol | 0.00 | 139 | 0 | N.D. | |
| 24) 2,4-Dimethylphenol | 0.00 | 107 | 0 | N.D. | |
| 25) bis(2-Chloroethoxy)methane | 0.00 | 93 | 0 | N.D. | |
| 26) 2,4-Dichlorophenol | 0.00 | 162 | 0 | N.D. | |
| 27) 1,2,4-Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 28) Naphthalene | 0.00 | 128 | 0 | N.D. | |
| 29) Hexachlorobutadiene | 0.00 | 225 | 0 | N.D. | |
| 30) 4-Chloro-3-methylphenol | 0.00 | 107 | 0 | N.D. | |
| 34) Hexachlorocyclopentadiene | 0.00 | 237 | 0 | N.D. | |
| 35) 2,4,6-Trichlorophenol | 0.00 | 196 | 0 | N.D. | |
| 36) 2,4,5-Trichlorophenol | 0.00 | 196 | 0 | N.D. | |
| 37) 2-Chloronaphthalene | 0.00 | 162 | 0 | N.D. | |
| 38) Dimethylphthalate | 0.00 | 163 | 0 | N.D. | |
| 39) 2,6-Dinitrotoluene | 0.00 | 165 | 0 | N.D. | |
| 40) Acenaphthylene | 0.00 | 152 | 0 | N.D. | |
| 41) Acenaphthene | 0.00 | 153 | 0 | N.D. | |
| 42) 2,4-Dinitrophenol | 0.00 | 184 | 0 | N.D. | |
| 43) 4-Nitrophenol | 0.00 | 65 | 0 | N.D. | |
| 44) 2,4-Dinitrotoluene | 0.00 | 165 | 0 | N.D. | |
| 45) Diethylphthalate | 22.11 | 149 | 1466 | N.D. | |
| 46) 4-Chlorophenyl-phenylether | 0.00 | 204 | 0 | N.D. | |
| 47) Fluorene | 0.00 | 166 | 0 | N.D. | |
| 48) Azobenzen/ 1,2-Diphenylhyd | 0.00 | 77 | 0 | N.D. | |
| 50) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | 0 | N.D. | |
| 51) N-Nitrosodiphenylamine | 0.00 | 168 | 0 | N.D. | |
| 52) 4-Bromophenyl-phenylether | 0.00 | 248 | 0 | N.D. | |
| 53) Hexachlorobenzene | 0.00 | 284 | 0 | N.D. | |
| 54) Pentachlorophenol | 0.00 | 266 | 0 | N.D. | |
| 55) Phenanthrene | 25.03 | 178 | 866 | N.D. | |
| 56) Anthracene | 25.03 | 178 | 866 | N.D. | |
| 57) Di-n-butylphthalate | 27.03 | 149 | 1893 | N.D. | |
| 58) Fluoranthene | 0.00 | 202 | 0 | N.D. | |
| 60) 3,3'-Dichlorobenzidine | 0.00 | 252 | 0 | N.D. | |
| 61) Benzidine | 29.20 | 184 | 4962 | N.D. | |
| 63) Pyrene | 0.00 | 202 | 0 | N.D. | |
| 64) Butylbenzylphthalate | 0.00 | 149 | 0 | N.D. | |
| 65) Benzo(a)anthracene | 33.06 | 228 | 4052 | N.D. | |
| 66) Bis(2-ethylhexyl)phthalate | 33.33 | 149 | 998 | N.D. | |
| 67) Chrysene | 33.06 | 228 | 4052 | N.D. | |
| 69) Di-n-Octylphthalate | 0.00 | 149 | 0 | N.D. | |
| 70) Benzo(b)fluoranthene | 0.00 | 252 | 0 | N.D. | |

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV0201\24429.D Vial: 2
Acq On : 2 Nov 2001 4:02 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 16:51 2001 Quant Results File: NP103001.RES

Quant Method : C:\HPCHEM\1\METHODS\NP103001.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Fri Nov 02 16:41:16 2001
Response via : Initial Calibration
DataAcq Meth : NP103001

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 71) Benzo(k)fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 72) Benzo(a)pyrene | 37.17 | 252 | 4678 | N.D. | |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | 0 | N.D. | |
| 74) Dibenz(a,h)anthracene | 0.00 | 278 | 0 | N.D. | |
| 75) Benzo(g,h,i)perylene | 0.00 | 276 | 0 | N.D. | |

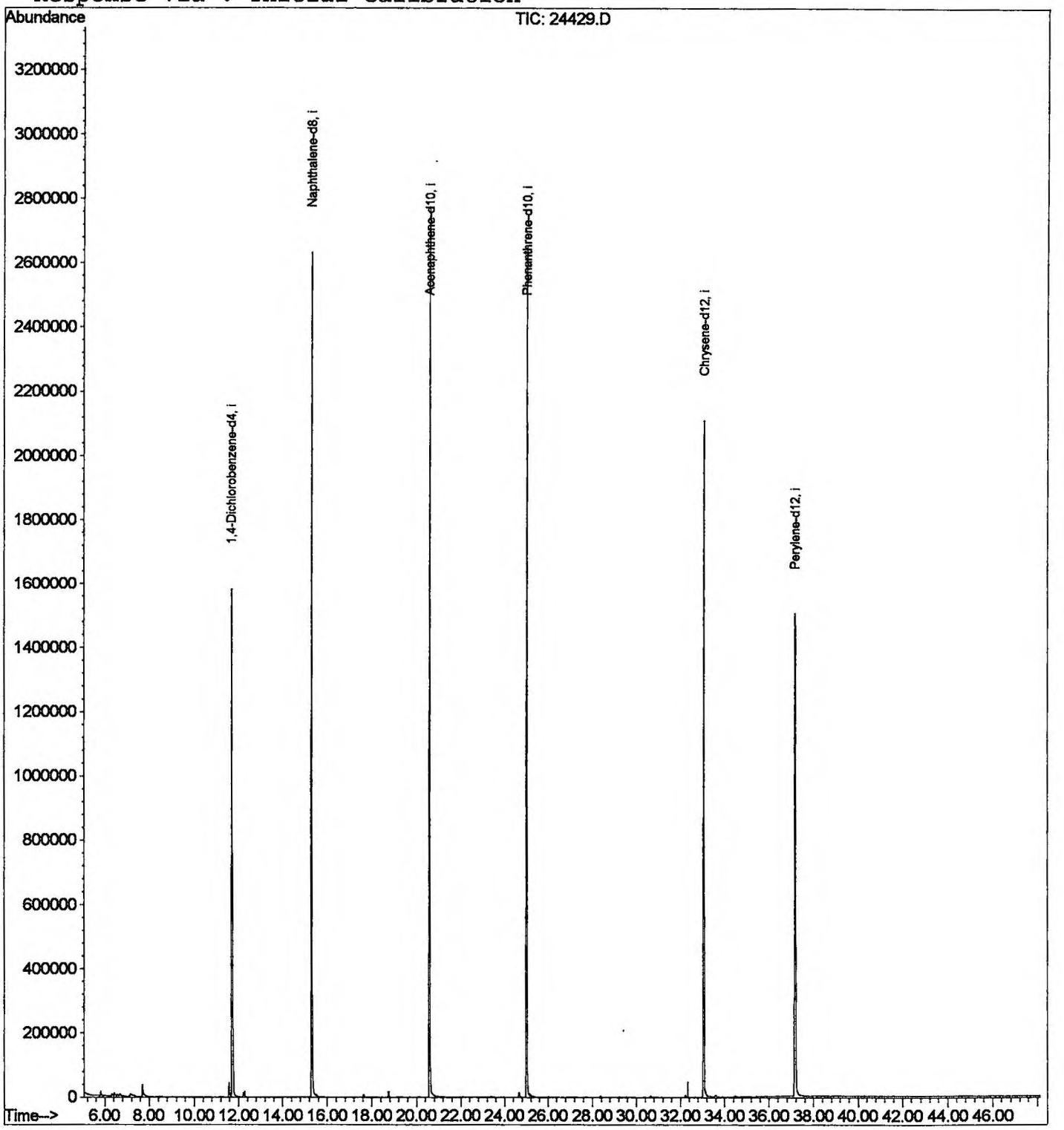
(#) = qualifier out of range (m) = manual integration

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV0201\24429.D
Acq On : 2 Nov 2001 4:02 pm
Sample : gc/ms unknown
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 16:51 2001

Vial: 2
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00
Quant Results File: NP103001.RES

Method : C:\HPCHEM\1\METHODS\NP103001.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Fri Nov 02 16:41:16 2001
Response via : Initial Calibration

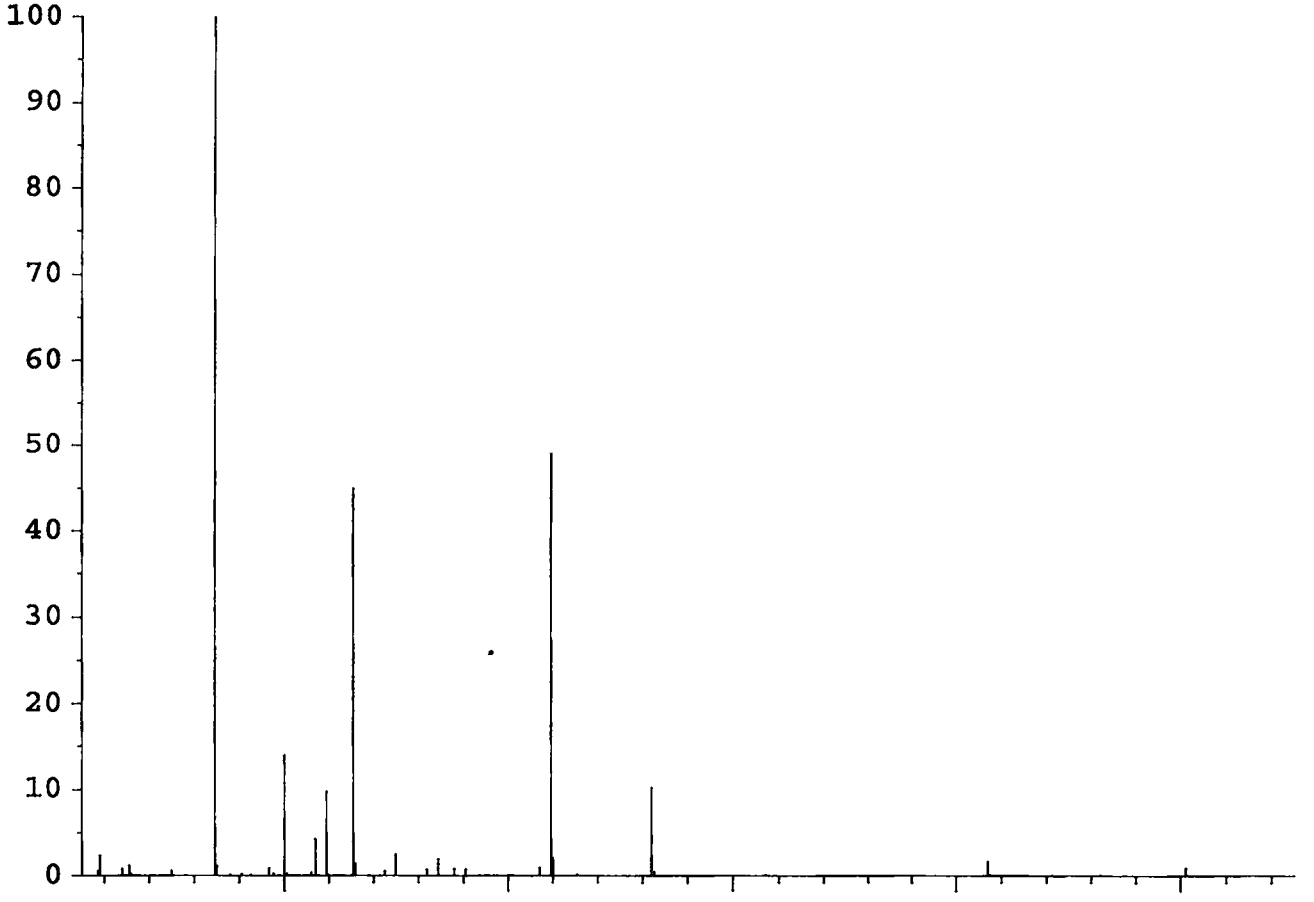


Instrument: GC/MS 209
Mon Nov 05 11:08:00 2001 C:\HPCHEM\1\5972\MARIE.U

| | | | |
|---|---|---|---|
| EMVolts | 2400 | AmuGain | 580 |
| Xray | 29.9 | AmuOffs | 81 |
| Emission | 50.0 | Wid219 | 0.001 |
| MS Temp | 173 | TTI | OFF |
| Vacuum | 57 | DC Pol | NEG |
| Samples | 8 | Repeller | 22.51 |
| Averages | 3 | IonFocus | 81.0 |
| StepSize | 0.10 | EntLens | 24.09 |
| MassGain | 339 | EntOffs | 15.56 |
| MassOffs | 2 | Filament | 1 |

PFTBA OPEN

Scan: 10.00 - 550.00 Samples: 8 Thresh: 100
111 peaks Base: 69.00 Abundance: 1073664

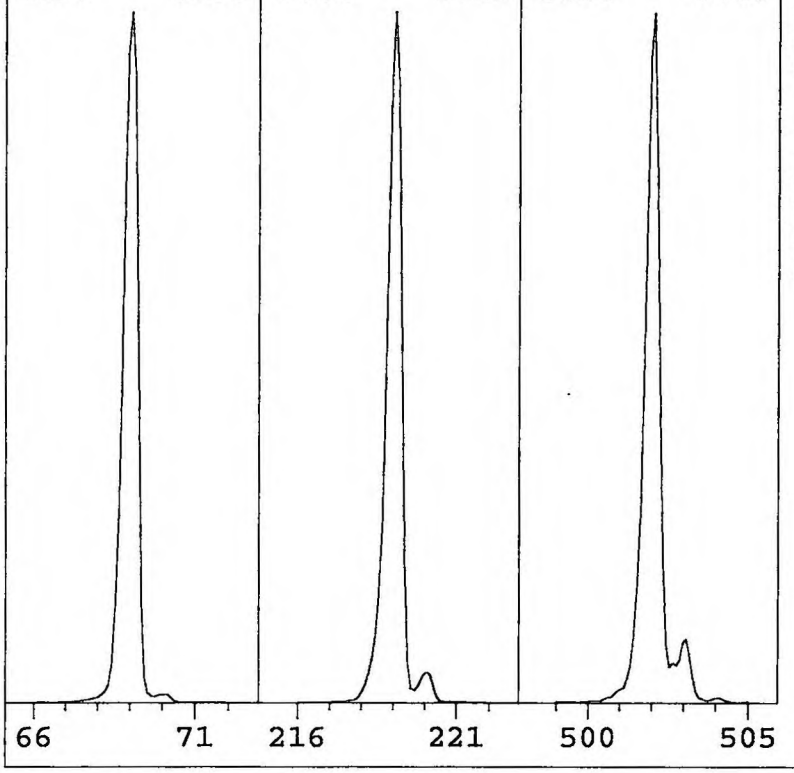



| Mass | Abund | Rel Abund | Iso Mass | Iso Abund | Iso Ratio |
|---|---|---|---|---|---|
| 69.00 | 1073664 | 100.00 | 69.90 | 13193 | 1.23 |
| 219.00 | 526976 | 49.08 | 220.00 | 22816 | 4.33 |
| 502.05 | 10663 | 0.99 | 502.95 | 1030 | 9.66 |

HP5972

Instrument: GC/MS 209
Mon Nov 05 11:08:49 2001 C:\HPCHEM\1\5972\MARIE.U

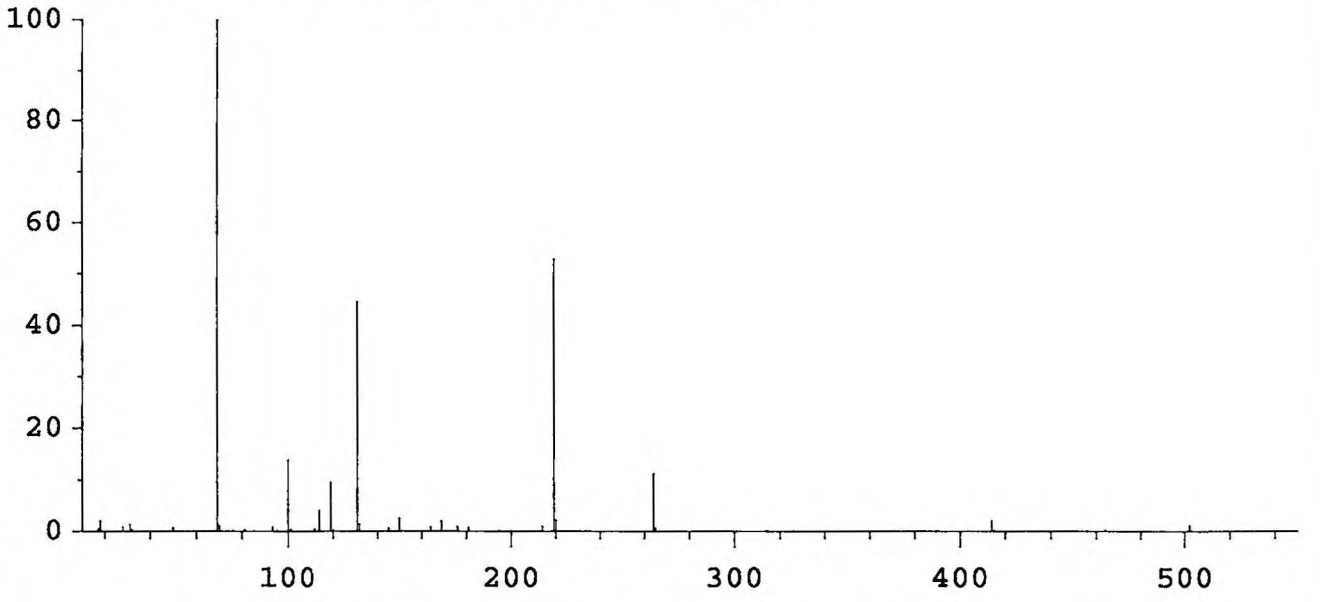
| Mass | 69.00 | Mass | 219.00 | Mass | 502.05 |
|---|---|---|---|---|---|
| Ab | 1224913 | % | 53.13 | % | 1.21 |
| Pw50 | 0.50 | Pw50 | 0.49 | Pw50 | 0.48 |




| | | | |
|---|---|---|---|
| EMVolts | 2400 | AmuGain | 580 |
| Xray | 29.9 | AmuOffs | 81 |
| Emission | 50.0 | Wid219 | 0.001 |
| MS Temp | 173 | TTI | OFF |
| Vacuum | 55 | DC Pol | NEG |
| Samples | 8 | Repeller | 22.51 |
| Averages | 3 | IonFocus | 81.0 |
| StepSize | 0.10 | EntLens | 24.09 |
| MassGain | 339 | EntOffs | 14.05 |
| MassOffs | 2 | Filament | 1 |

PFTBA OPEN

Scan: 10.00 - 550.00 Samples: 8 Thresh: 100
107 peaks Base: 69.00 Abundance: 1070080




| Mass | Abund | Rel Abund | Iso Mass | Iso Abund | Iso Ratio |
|---|---|---|---|---|---|
| 69.00 | 1070080 | 100.00 | 69.90 | 12175 | 1.14 |
| 219.00 | 566272 | 52.92 | 220.00 | 24360 | 4.30 |
| 502.05 | 11643 | 1.09 | 503.05 | 1162 | 9.98 |

# LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV0201\24429.D  Vial: 2
Acq On : 2 Nov 2001 4:02 pm  Operator: 209 GALOS
Sample : gc/ms unknown  Inst : GC/MS 209
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\NP103001.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

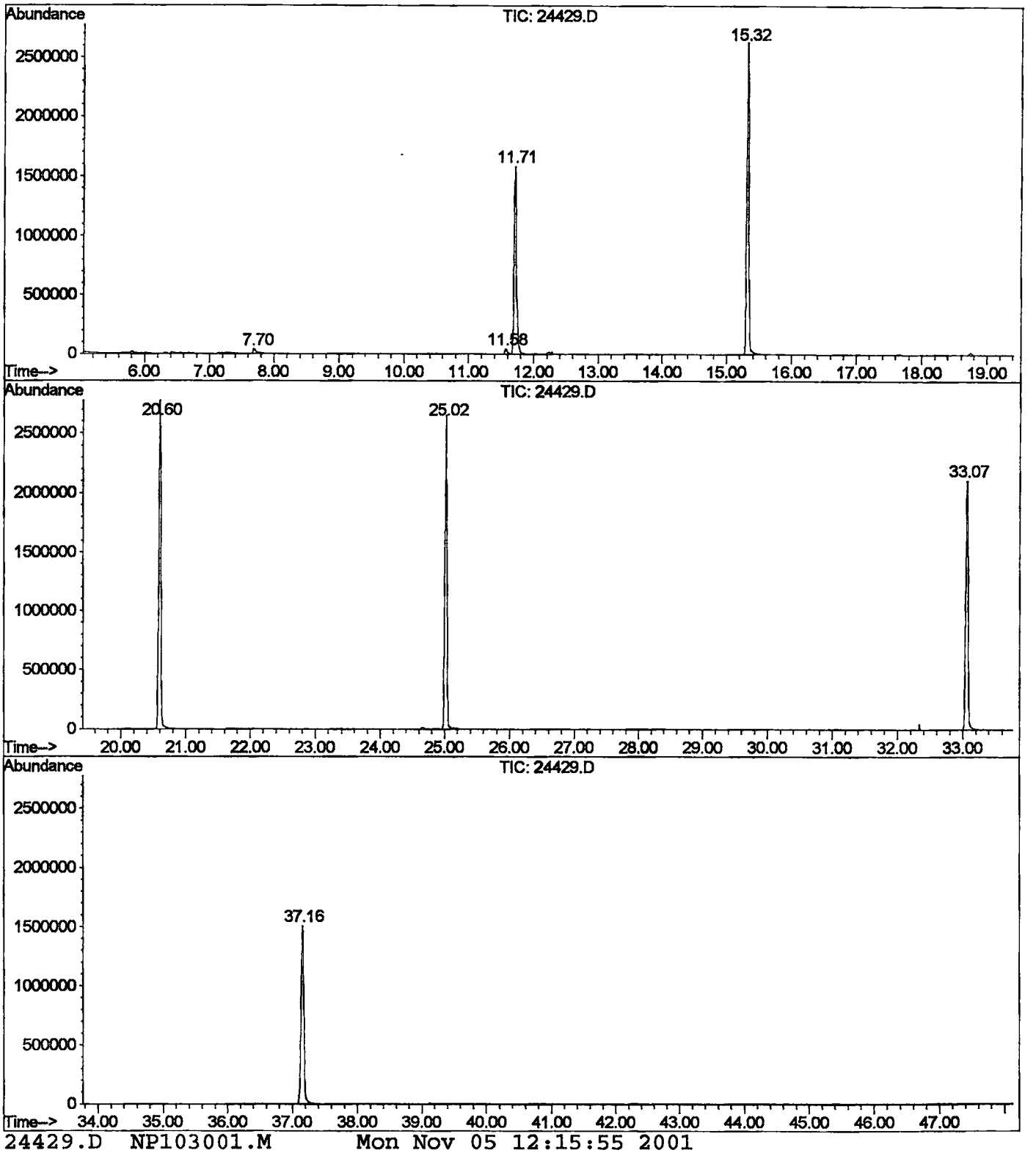
| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.701 | 285 | 289 | 297 | rBV | 37837 | 105866 | 1.76% | 0.341% |
| 2 | 11.575 | 707 | 711 | 720 | rBV | 44573 | 107272 | 1.79% | 0.346% |
| 3 | 11.713 | 720 | 726 | 740 | rBV | 1580619 | 3983418 | 66.29% | 12.837% |
| 4 | 15.321 | 1113 | 1119 | 1136 | rBV | 2632271 | 5543108 | 92.25% | 17.864% |
| 5 | 20.599 | 1687 | 1694 | 1710 | rBV | 2774551 | 6008974 | 100.00% | 19.365% |
| 6 | 25.024 | 2169 | 2176 | 2188 | rBV2 | 2649619 | 5679893 | 94.52% | 18.304% |
| 7 | 33.066 | 3044 | 3052 | 3064 | rBV2 | 2108961 | 5135365 | 85.46% | 16.550% |
| 8 | 37.161 | 3489 | 3498 | 3513 | rBV2 | 1502419 | 4466414 | 74.33% | 14.394% |

Sum of corrected areas: 31030310

24429.D NP103001.M Mon Nov 05 12:15:53 2001

# LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\NOV0201\24429.D
Operator : 209 GALOS
Acquired : 2 Nov 2001 4:02 pm using AcqMethod NP103001
Instrument : GC/MS 209
Sample Name: gc/ms unknown
Misc Info :
Vial Number: 2
Quant File :NP103001.RES (RTE Integrator)




24429.D NP103001.M Mon Nov 05 12:15:55 2001

# Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\NOV0201\24429.D
Acq On : 2 Nov 2001 4:02 pm
Sample : gc/ms unknown
Misc :
MS Integration Params: LSCINT.P

Vial: 2
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

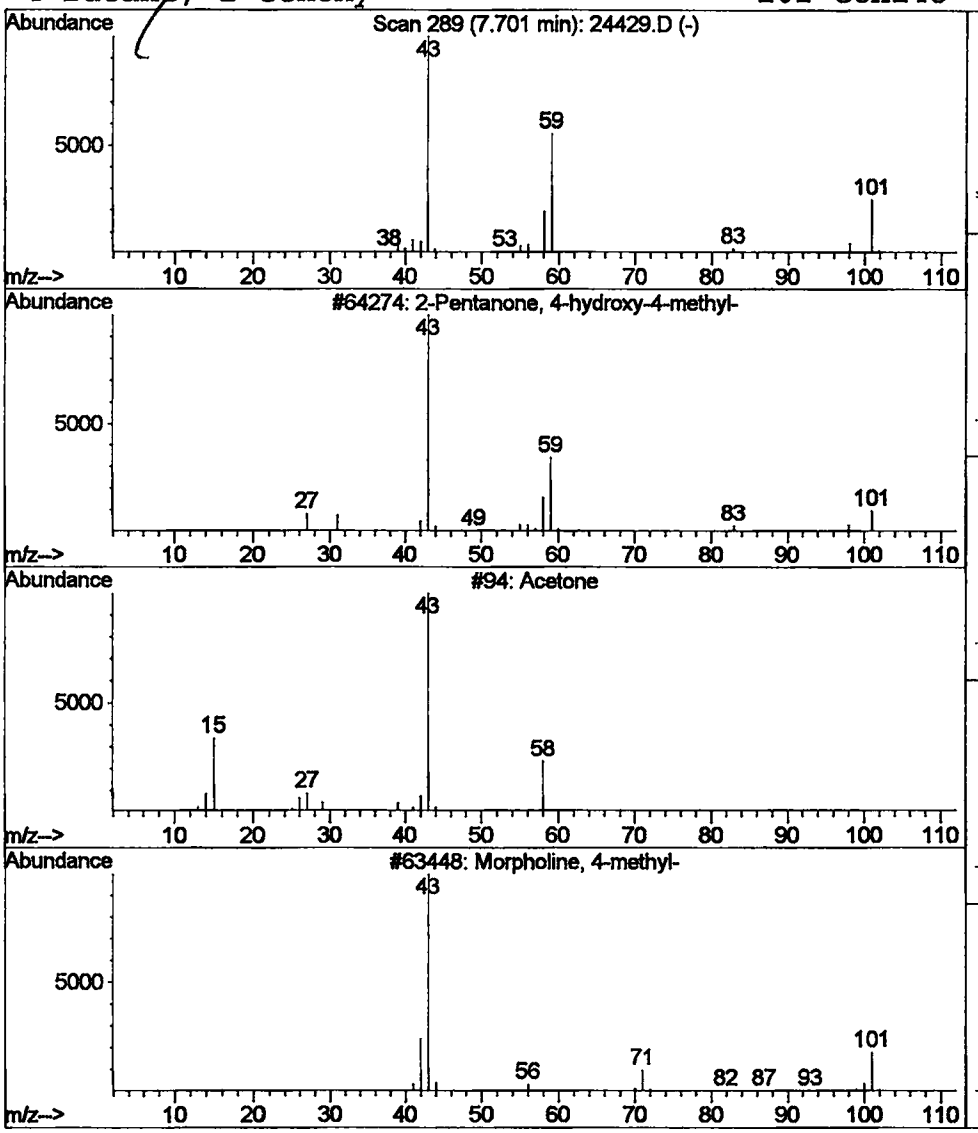
Quant Method : C:\HPCHEM\1\METHODS\NP103001.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

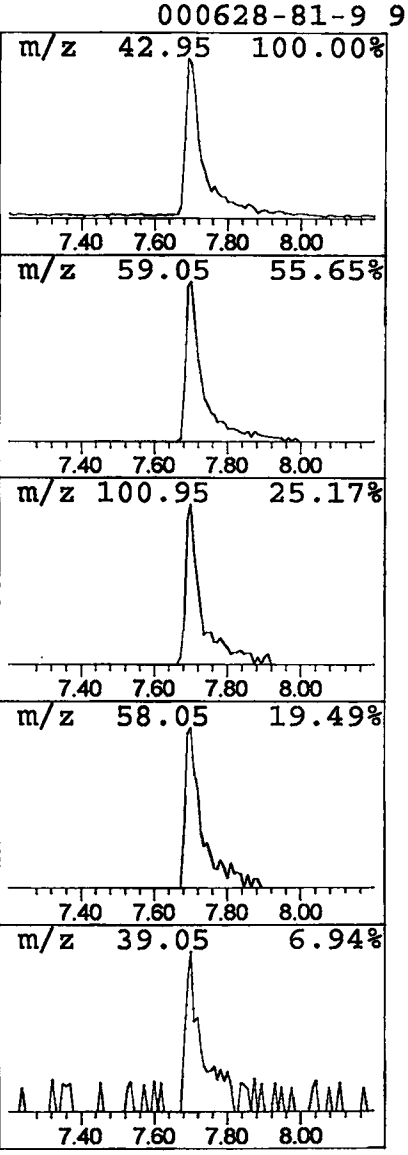
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-methy Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.70 | 0.53 ug/l | 105866 | 1,4-Dichlorobenzene-d4 | 11.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 42 |
| 2 | Acetone | 58 | C3H6O | 000067-64-1 | 9 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



# Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\NOV0201\24429.D
Acq On : 2 Nov 2001 4:02 pm
Sample : gc/ms unknown
Misc :
MS Integration Params: LSCINT.P

Vial: 2
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

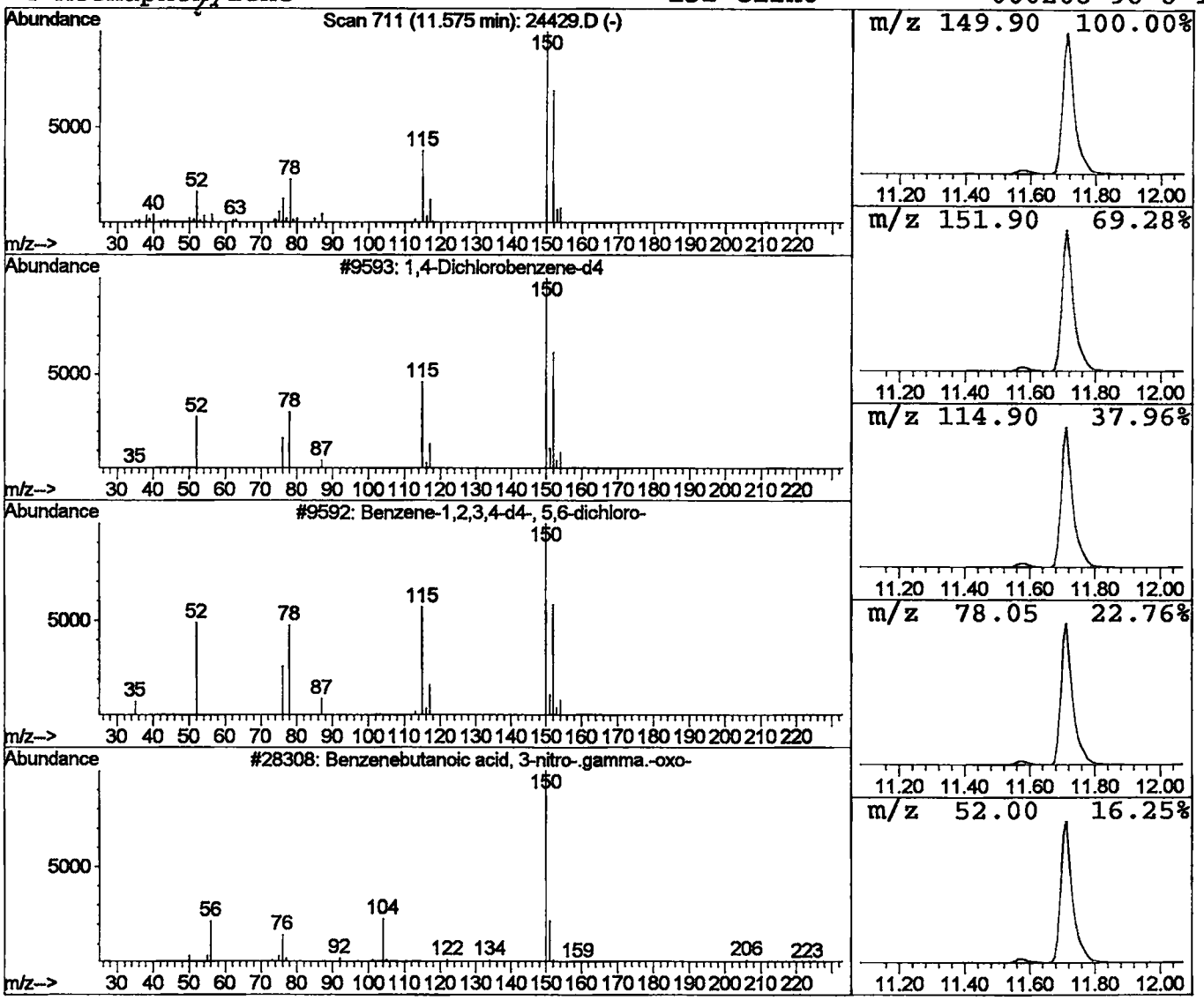
Quant Method : C:\HPCHEM\1\METHODS\NP103001.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

**********

Peak Number 2 1,4-Dichlorobenzene-d4 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.58 | 0.54 ug/l | 107272 | 1,4-Dichlorobenzene-d4 | 11.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 50 |
| 2 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 32 |
| 3 | Benzenebutanoic acid, 3-nitro-.gamm | 223 | C10H9NO5 | 006328-00-3 | 17 |
| 4 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 10 |



# Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 2 Nov 2001 4:02 pm
Data File: C:\HPCHEM\1\DATA\NOV0201\24429.D
Name: gc/ms unknown
Misc:
Method: C:\HPCHEM\1\METHODS\NP103001.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 |
|---|---|---|---|---|---|---|---|---|
| 2-Pentanone, 4-hydro | 7.70 | 0.5 | ug/l | 105866 | ISTD01 | 11.71 | 3983420 | 20.0 |
| 1,4-Dichlorobenzene- | 11.58 | 0.5 | ug/l | 107272 | ISTD01 | 11.71 | 3983420 | 20.0 |

24429.D NP103001.M Mon Nov 05 12:16:02 2001