User: Galos, Marie
Westchester Dept. of Labs & Research
Date: 10/10/2001 Time: 14:37:55

Sample: AD23085
Analysis: $GCMS GC/MS Scan For Unknowns
Started: 10/10/01 14:37 Ended: 10/10/01 14:37 Analyst: MG
Page: 1

| | Component Name | Viol | Result |
|---|---|---|---|
| 1 | Other unknown compounds | | see comment |

**Comments for Sample AD23085 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 10-12-2001 Time: 09:59:59

A scan of the extract prepared for the 508 analysis, from 35 - 550 amu using a mass spectrometer, does reveal the presence of non-target compounds at levels relatively less than other samples. These hydrocarbons do not appear to be present in the Laboratory Blank. However, these hydrocarbons were present in previous Laboratory Blanks, and also some samples, analyzed for this NYCDEP project. An investigation is being made to determine the source of these hydrocarbons, if other than in the samples themselves, i.e. laboratory equipment.

Data File : C:\HPCHEM\1\DATA\OCT0401\23085.D Vial: 5
Acq On : 4 Oct 2001 7:26 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:15 2001 Quant Results File: NP091101.RES

Quant Method : C:\HPCHEM\1\METHODS\NP091101.M (RTE Integrator)
Title : 209 625/TCLP calibration table 7/16/01
Last Update : Thu Sep 13 12:47:04 2001
Response via : Initial Calibration
DataAcq Meth : NP091101

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.78 | 152 | 545641 | 20.00 | ug/l | -0.12 |
| 19) Naphthalene-d8 | 15.39 | 136 | 2148183 | 20.00 | ug/l | -0.13 |
| 31) Acenaphthene-d10 | 20.68 | 164 | 1023902 | 20.00 | ug/l | -0.13 |
| 49) Phenanthrene-d10 | 25.11 | 188 | 1432503 | 20.00 | ug/l | -0.12 |
| 59) Chrysene-d12 | 33.16 | 240 | 1014639 | 20.00 | ug/l | -0.12 |
| 68) Perylene-d12 | 37.27 | 264 | 733828 | 20.00 | ug/l | -0.15 |
| **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 | 11.78 | 132 | 220 | 0.01 | ug/l | 0.36 |
| Spiked Amount 75.000 | | | Recovery = | 0.01% | | |
| 7) 1,2-Dichlorobenzene-d4 | 12.30 | 152 | 5689 | 0.21 | ug/l | -0.13 |
| Spiked Amount 50.000 | | | Recovery = | 0.42% | | |
| 20) Nitrobenzene-d5 | 0.00 | 82 | 0 | 0.00 | ug/l | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 32) 2-Fluorobiphenyl | 18.83 | 172 | 2419 | 0.03 | ug/l | 0.01 |
| Spiked Amount 50.000 | | | Recovery = | 0.06% | | |
| 33) 2,4,6-Tribromophenol | 0.00 | 330 | 0 | 0.00 | ug/l | |
| Spiked Amount 75.000 | | | Recovery = | 0.00% | | |
| 62) Terphenyl-d14 | 30.02 | 244 | 104 | 0.00 | ug/l | -0.13 |
| 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. |

(#) = qualifier out of range (m) = manual integration
23085.D NP091101.M Tue Oct 09 15:36:35 2001 Page 1

Data File : C:\HPCHEM\1\DATA\OCT0401\23085.D Vial: 5
Acq On : 4 Oct 2001 7:26 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:15 2001 Quant Results File: NP091101.RES

Quant Method : C:\HPCHEM\1\METHODS\NP091101.M (RTE Integrator)
Title : 209 625/TCLP calibration table 7/16/01
Last Update : Thu Sep 13 12:47:04 2001
Response via : Initial Calibration
DataAcq Meth : NP091101

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 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. | |
| 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 | 0.00 | 149 | 0 | 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 | 25.18 | 178 | 172 | N.D. | |
| 56) Anthracene | 25.17 | 178 | 172 | N.D. | |
| 57) Di-n-butylphthalate | 27.11 | 149 | 26751 | N.D. | |
| 58) Fluoranthene | 0.00 | 202 | 0 | N.D. | |
| 60) 3,3'-Dichlorobenzidine | 0.00 | 252 | 0 | N.D. | |

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

Data File : C:\HPCHEM\1\DATA\OCT0401\23085.D Vial: 5
Acq On : 4 Oct 2001 7:26 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:15 2001 Quant Results File: NP091101.RES

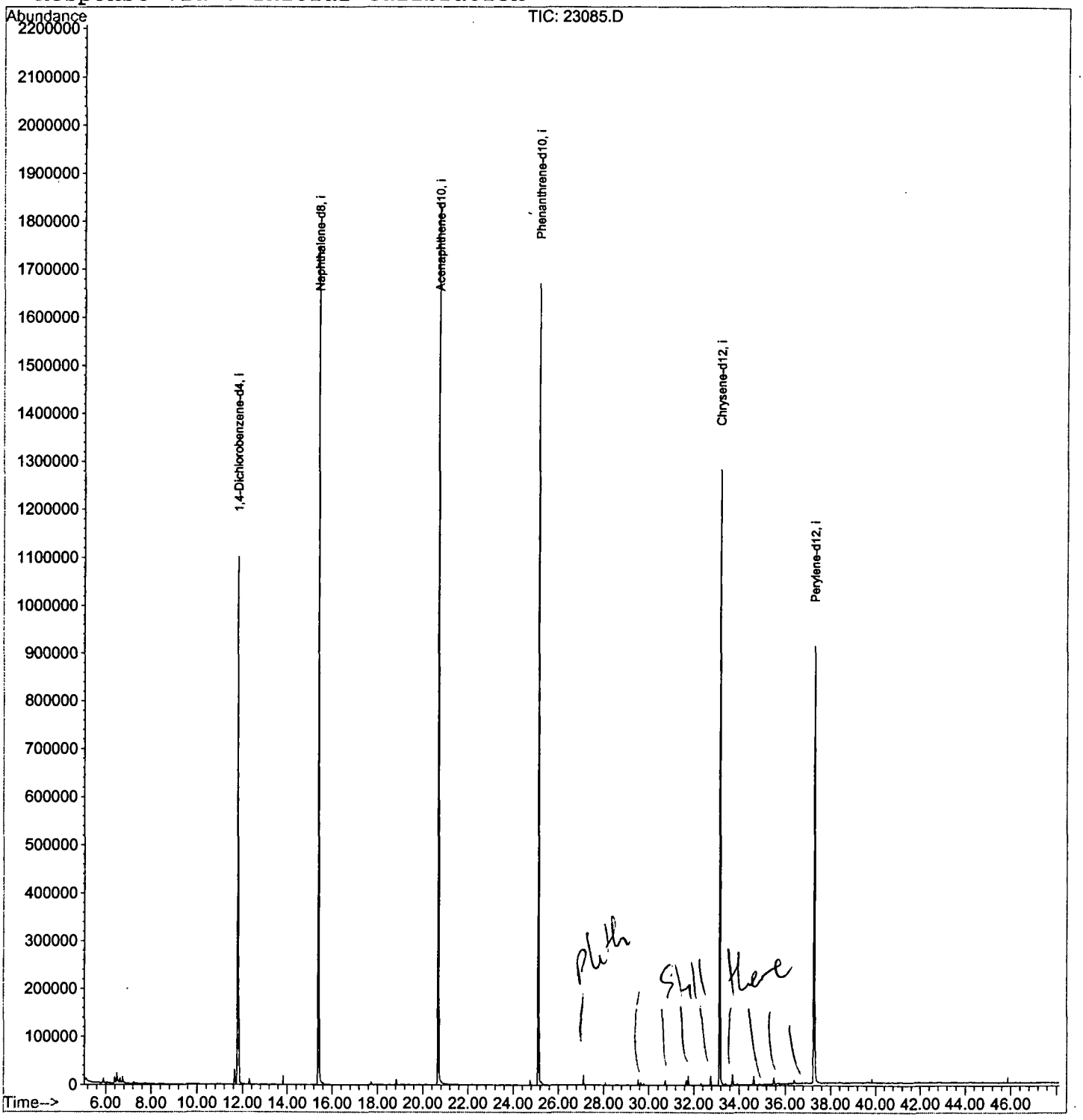
Quant Method : C:\HPCHEM\1\METHODS\NP091101.M (RTE Integrator)
Title : 209 625/TCLP calibration table 7/16/01
Last Update : Thu Sep 13 12:47:04 2001
Response via : Initial Calibration
DataAcq Meth : NP091101

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 61) | Benzidine | 0.00 | 184 | 0 | N.D. | |
| 63) | Pyrene | 0.00 | 202 | 0 | N.D. | |
| 64) | Butylbenzylphthalate | 0.00 | 149 | 0 | N.D. | |
| 65) | Benzo(a)anthracene | 33.16 | 228 | 2385 | N.D. | |
| 66) | Bis(2-ethylhexyl)phthalate | 33.41 | 149 | 2517 | N.D. | |
| 67) | Chrysene | 33.16 | 228 | 2385 | N.D. | |
| 69) | Di-n-Octylphthalate | 0.00 | 149 | 0 | N.D. | |
| 70) | Benzo(b)fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 71) | Benzo(k)fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 72) | Benzo(a)pyrene | 37.27 | 252 | 2765 | 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

Data File : C:\HPCHEM\1\DATA\OCT0401\23085.D Vial: 5
Acq On : 4 Oct 2001 7:26 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:15 2001 Quant Results File: NP091101.RES

Method : C:\HPCHEM\1\METHODS\NP091101.M (RTE Integrator)
Title : 209 625/TCLP calibration table 7/16/01
Last Update : Thu Sep 13 12:47:04 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\OCT0401\23085.D Vial: 5
Acq On : 4 Oct 2001 7:26 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\NP091101.M (RTE Integrator)
Title : 209 625/TCLP calibration table 7/16/01
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

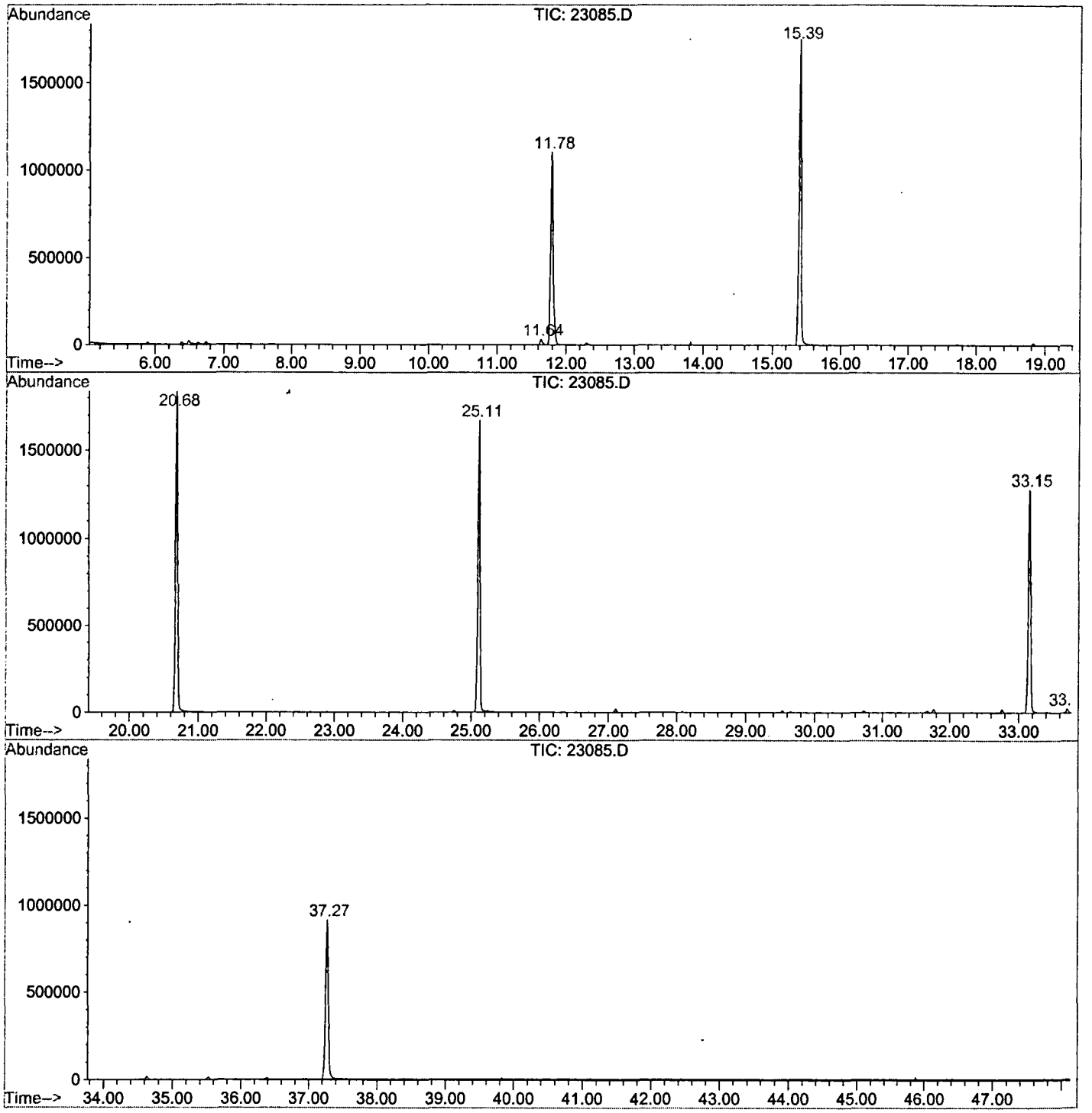
| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.638 | 714 | 719 | 729 | rBV | 30709 | 75524 | 1.88% | 0.372% |
| 2 | 11.785 | 729 | 735 | 747 | rBV | 1101122 | 2806031 | 69.89% | 13.838% |
| 3 | 15.393 | 1122 | 1128 | 1146 | rBV | 1749409 | 3892237 | 96.94% | 19.194% |
| 4 | 20.681 | 1697 | 1704 | 1726 | rBV | 1838168 | 4015004 | 100.00% | 19.800% |
| 5 | 25.115 | 2179 | 2187 | 2198 | rBV | 1671358 | 3662873 | 91.23% | 18.063% |
| 6 | 33.147 | 3055 | 3062 | 3077 | rBV2 | 1283189 | 3108784 | 77.43% | 15.331% |
| 7 | 33.707 | 3116 | 3123 | 3130 | rBV2 | 22065 | 52035 | 1.30% | 0.257% |
| 8 | 37.269 | 3502 | 3511 | 3524 | rBV2 | 909941 | 2665425 | 66.39% | 13.144% |

Sum of corrected areas: 20277913

23085.D NP091101.M Tue Oct 09 12:30:47 2001

# LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\OCT0401\23085.D
Operator : 209 GALOS
Acquired : 4 Oct 2001 7:26 pm using AcqMethod NP091101
Instrument : GC/MS 209
Sample Name: gc/ms unknown
Misc Info :
Vial Number: 5
Quant File :NP091101.RES (RTE Integrator)




23085.D NP091101.M Tue Oct 09 12:30:55 2001

Data File : C:\HPCHEM\1\DATA\OCT0401\23085.D Vial: 5
Acq On : 4 Oct 2001 7:26 pm Operator: 209 GALOS
Sample : gc/ms unknown Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

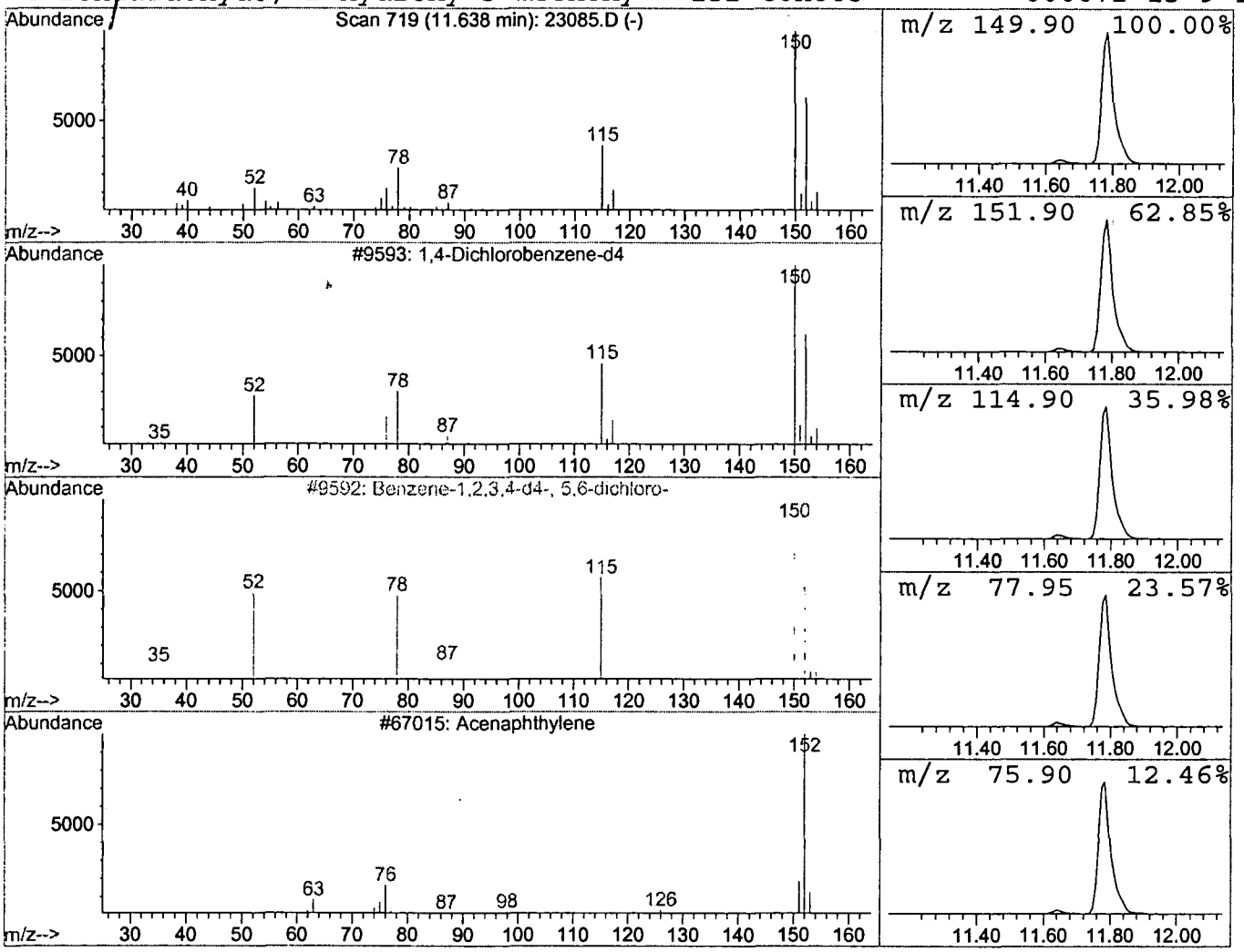
Quant Method : C:\HPCHEM\1\METHODS\NP091101.M (RTE Integrator)
Title : 209 625/TCLP calibration table 7/16/01
Library : C:\DATABASE\NBS75K.L

**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.64 | 0.54 ug/l | 75524 | 1,4-Dichlorobenzene-d4 | 11.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 94 |
| 2 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 40 |
| 3 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 10 |
| 4 | Benzaldehyde, 2-hydroxy-5-methoxy- | 152 | C8H8O3 | 000672-13-9 | 10 |



# Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 4 Oct 2001 7:26 pm
Data File: C:\HPCHEM\1\DATA\OCT0401\23085.D
Name: gc/ms unknown
Misc:
Method: C:\HPCHEM\1\METHODS\NP091101.M (RTE Integrator)
Title: 209 625/TCLP calibration table 7/16/01
Library Searched: C:\DATABASE\NBS75K.L

| TIC Top Hit name | RT | EstConc | Units | Area | IntStd | ISRT | ISArea | ISConc |
|---|---|---|---|---|---|---|---|---|
| ~~1,4-Dichlorobe~~nzene- | 11.64 | 0.5 | ug/l | 75524 | ISTD01 | 11.78 | 2806030 | 20.0 |

23085.D NP091101.M Tue Oct 09 12:31:08 2001