User: Fakhouri, Morgan
Westchester Dept. of Labs & Research
Date: 05/09/2002 Time: 15:43:14

Sample: AE10303
Analysis: $REGCMS Reference for GCMS Scan
Units: ug
Started: 5/9/02 15:31 Ended: 5/9/02 15:31 Analyst: MF
Result source: manual entry
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | n-Nitrosodimethylamine | | 8.58 | | 2.0 |
| 2 | bis(2-Chloroethyl)ether | | 15.33 | | 2.0 |
| 3 | 1,3-Dichlorobenzene | | 13.68 | | 2.0 |
| 4 | 1,4-Dichlorobenzene | | 13.97 | | 2.0 |
| 5 | 1,2-Dichlorobenzene | | 15.22 | | 2.0 |
| 6 | 2,2-oxybis(1-Chloropropane) | | 16.17 | | 2.0 |
| 7 | n-Nitrosodi-n-propylamine | | 15.99 | | 2.0 |
| 8 | Hexachloroethane | | 10.99 | | 2.0 |
| 9 | Nitrobenzene | | 15.17 | | 2.0 |
| 10 | Isophorone | | 18.30 | | 2.0 |
| 11 | bis(2-Chloroethoxy)methane | | 16.24 | | 2.0 |
| 12 | 1,2,4-Trichlorobenzene | | 15.17 | | 2.0 |
| 13 | Naphthalene | | 17.29 | | 2.0 |
| 14 | Hexachlorobutadiene | | 13.75 | | 2.0 |
| 15 | 2-Chloronaphthalene | | 18.41 | | 2.0 |
| 16 | Dimethylphthalate | | 16.59 | | 2.0 |
| 17 | 2,6-Dinitrotoluene | | 15.78 | | 2.0 |
| 18 | Acenaphthylene | | 15.55 | | 2.0 |
| 19 | Acenaphthene | | 17.96 | | 2.0 |
| 20 | 2,4-Dinitrotoluene | | 13.72 | | 2.0 |
| 21 | Diethylphthalate | | 19.01 | | 2.0 |
| 22 | 4-Chlorophenylphenylether | | 17.24 | | 2.0 |
| 23 | Fluorene | | 18.52 | | 2.0 |
| 24 | Azobenzene | | 16.30 | | 2.0 |
| 25 | n-Nitrosodiphenylamine | | 17.38 | | 2.0 |
| 26 | 4-Bromophenylphenylether | | 18.36 | | 2.0 |
| 27 | Hexachlorobenzene | | 19.04 | | 2.0 |
| 28 | Phenanthrene | | 18.36 | | 2.0 |
| 29 | Anthracene | | 16.40 | | 2.0 |
| 30 | Di-n-butylphthalate | | 17.84 | | 2.0 |
| 31 | Fluoranthene | | 17.64 | | 2.0 |
| 32 | Pyrene | | 18.70 | | 2.0 |
| 33 | Butylbenzylphthalate | | 12.99 | | 2.0 |
| 34 | Benzo(a)anthracene | | 15.59 | | 2.0 |
| 35 | bis(2-Ethylhexyl)phthalate | | 11.70 | | 2.0 |
| 36 | Chrysene | | 17.88 | | 2.0 |
| 37 | Di-n-octylphthalate | | 8.99 | | 2.0 |
| 38 | Benzo(b)fluoranthene | | 16.11 | | 2.0 |
| 39 | Benzo(k)fluoranthene | | 19.80 | | 2.0 |
| 40 | Benzo(a)pyrene | | 11.15 | | 2.0 |
| 41 | Indeno(1,2,3-cd)pyrene | | 7.38 | | 2.0 |
| 42 | Dibenz(a,h)anthracene | | 11.13 | | 2.0 |
| 43 | Benzo(g,h,i)perylene | | 13.58 | | 2.0 |

User: Fakhouri, Morgan
Westchester Dept. of Labs & Research
Date: 05/09/2002 Time: 15:43:10

Sample: AE10303
Analysis: $Q_GCMS Ref calc for GCMS Scan
Units: ug
Started: 5/9/02 15:31 Ended: 5/9/02 15:31 Analyst: MF
Result source: calculation
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | n-Nitrosodimethylamine | | 43 | | 2.0 |
| 2 | bis(2-Chloroethyl)ether | | 77 | | 2.0 |
| 3 | 1,3-Dichlorobenzene | | 68 | | 2.0 |
| 4 | 1,4-Dichlorobenzene | | 70 | | 2.0 |
| 5 | 1,2-Dichlorobenzene | | 76 | | 2.0 |
| 6 | 2,2-oxybis(1-Chloropropane) | | 81 | | 2.0 |
| 7 | n-Nitrosodi-n-propylamine | | 80 | | 2.0 |
| 8 | Hexachloroethane | | 55 | | 2.0 |
| 9 | Nitrobenzene | | 76 | | 2.0 |
| 10 | Isophorone | | 92 | | 2.0 |
| 11 | bis(2-Chloroethoxy)methane | | 81 | | 2.0 |
| 12 | 1,2,4-Trichlorobenzene | | 76 | | 2.0 |
| 13 | Naphthalene | | 86 | | 2.0 |
| 14 | Hexachlorobutadiene | | 69 | | 2.0 |
| 15 | 2-Chloronaphthalene | | 92 | | 2.0 |
| 16 | Dimethylphthalate | | 83 | | 2.0 |
| 17 | 2,6-Dinitrotoluene | | 79 | | 2.0 |
| 18 | Acenaphthylene | | 78 | | 2.0 |
| 19 | Acenaphthene | | 90 | | 2.0 |
| 20 | 2,4-Dinitrotoluene | | 69 | | 2.0 |
| 21 | Diethylphthalate | | 95 | | 2.0 |
| 22 | 4-Chlorophenylphenylether | | 86 | | 2.0 |
| 23 | Fluorene | | 93 | | 2.0 |
| 24 | Azobenzene | | 82 | | 2.0 |
| 25 | n-Nitrosodiphenylamine | | 87 | | 2.0 |
| 26 | 4-Bromophenylphenylether | | 92 | | 2.0 |
| 27 | Hexachlorobenzene | | 95 | | 2.0 |
| 28 | Phenanthrene | | 92 | | 2.0 |
| 29 | Anthracene | | 82 | | 2.0 |
| 30 | Di-n-butylphthalate | | 89 | | 2.0 |
| 31 | Fluoranthene | | 88 | | 2.0 |
| 32 | Pyrene | | 94 | | 2.0 |
| 33 | | | | | |
| 34 | Benzo(a)anthracene | | 78 | | 2.0 |
| 35 | | | | | |
| 36 | Chrysene | | 89 | | 2.0 |
| 37 | | | | | |
| 38 | Benzo(b)fluoranthene | | 81 | | 2.0 |
| 39 | Benzo(k)fluoranthene | | 99 | | 2.0 |
| 40 | Benzo(a)pyrene | | 56 | | 2.0 |
| 41 | | | | | |
| 42 | Dibenz(a,h)anthracene | | 56 | | 2.0 |
| 43 | Benzo(g,h,i)perylene | | 68 | | 2.0 |

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\050802\501REFA.D Vial: 4
Acq On : 8 May 2002 4:15 pm Operator: Mclean
Sample : 5/1 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 09 13:47:30 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Tue May 07 09:57:23 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.93 | 152 | 5318510 | 40.00 | ug/L | 0.00 |
| 10) Napthalene-d8 | 13.43 | 136 | 21247895 | 40.00 | ug/L | 0.00 |
| 17) Acenapthalene-d10 | 18.57 | 164 | 11554609 | 40.00 | ug/L | 0.00 |
| 29) Phenanthranene-d10 | 22.95 | 188 | 16917476 | 40.00 | ug/L | 0.00 |
| 37) Chrysene-d12 | 30.81 | 240 | 12648390 | 40.00 | ug/L | 0.00 |
| 43) Perylene-d12 | 34.70 | 264 | 8293389 | 40.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 27) TCMX | 20.54 | 209 | 650474 | 7.53 | ug/L | 0.00 |
| Spiked Amount 10.000 | | | Recovery = 75.30% | | | |
| 50) 2,4-ddd | 0.00 | 235 | 0 | 0.00 | ug/L | |
| Spiked Amount 5.000 | | | Recovery = 0.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) n-nitros-dimethyl amine | 3.87 | 74 | 935542 | 8.58 | ug/L # | 82 |
| 3) bis(2-Chloroethyl)ether | 9.35 | 93 | 3190976 | 15.33 | ug/L | 89 |
| 4) 1,3-Dichlorobenzene | 9.76 | 146 | 2898343 | 13.68 | ug/L | 99 |
| 5) 1,4-Dichlorobenzene | 9.98 | 146 | 3042164 | 13.97 | ug/L | 99 |
| 6) 1,2-Dichlorobenzene | 10.35 | 146 | 2948202 | 15.22 | ug/l | 98 |
| 7) 2,2'oxybis(1-Chloropropane | 10.81 | 45 | 5185025m | 16.17 | ug/L | |
| 8) N-nitroso-di-propylamine | 11.13 | 70 | 2358437 | 15.99 | ug/L | 96 |
| 9) Hexachloroethane | 11.26 | 117 | 882662 | 10.99 | ug/L | 98 |
| 11) Nitrobenzene | 11.49 | 77 | 3117827 | 15.17 | ug/L | 96 |
| 12) Isophorone | 12.20 | 82 | 6776245 | 18.30 | ug/L | 98 |
| 13) bis(2-Chloroethoxy) methan | 12.94 | 93 | 3984686 | 16.24 | ug/L | 100 |
| 14) 1,2,4-Trichlorobenzene | 13.30 | 180 | 2362360 | 15.17 | ug/L | 99 |
| 15) Napthalene | 13.49 | 128 | 9843221 | 17.29 | ug/L | 98 |
| 16) Hexachlorobutadiene | 13.93 | 225 | 1002830 | 13.75 | ug/L | 98 |
| 18) 2-Chloronaphthalene | 16.93 | 162 | 5424231 | 18.41 | ug/L | 98 |
| 19) Dimethylphthalate | 18.00 | 163 | 6265806 | 16.59 | ug/L | 99 |
| 20) 2,6-Dinitrotoluene | 18.11 | 165 | 936902 | 15.78 | ug/L # | 90 |
| 21) Acenapthylene | 18.13 | 152 | 8476018 | 15.55 | ug/L | 98 |
| 22) Acenapthalene | 18.66 | 153 | 5644675 | 17.96 | ug/L | 98 |
| 23) 2,4-Dinitrotoluene | 19.27 | 165 | 1152478 | 13.72 | ug/L | 95 |
| 24) Diethylphthalate | 20.14 | 149 | 6241482 | 19.01 | ug/L | 99 |
| 25) 4-Chlorophenyl-phenylether | 20.33 | 204 | 2992168 | 17.24 | ug/L | 98 |
| 26) Fluorene | 20.20 | 166 | 6657150 | 18.52 | ug/L | 98 |
| 28) Azobenzene | 20.78 | 77 | 7062622 | 16.30 | ug/L | 93 |
| 30) Nnitrosodiphenylamine | 20.69 | 169 | 3608980 | 17.38 | ug/L | 94 |
| 31) 4-Bromophenyl-phenylether | 21.76 | 248 | 1534194 | 18.36 | ug/L | 97 |
| 32) Hexachlorobenzene | 21.79 | 284 | 1523009 | 19.04 | ug/L | 97 |
| 33) Phenanthrene | 23.02 | 178 | 9282424 | 18.19 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\050802\501REFA.D Vial: 4
Acq On : 8 May 2002 4:15 pm Operator: Mclean
Sample : 5/1 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 09 13:47:30 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Tue May 07 09:57:23 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

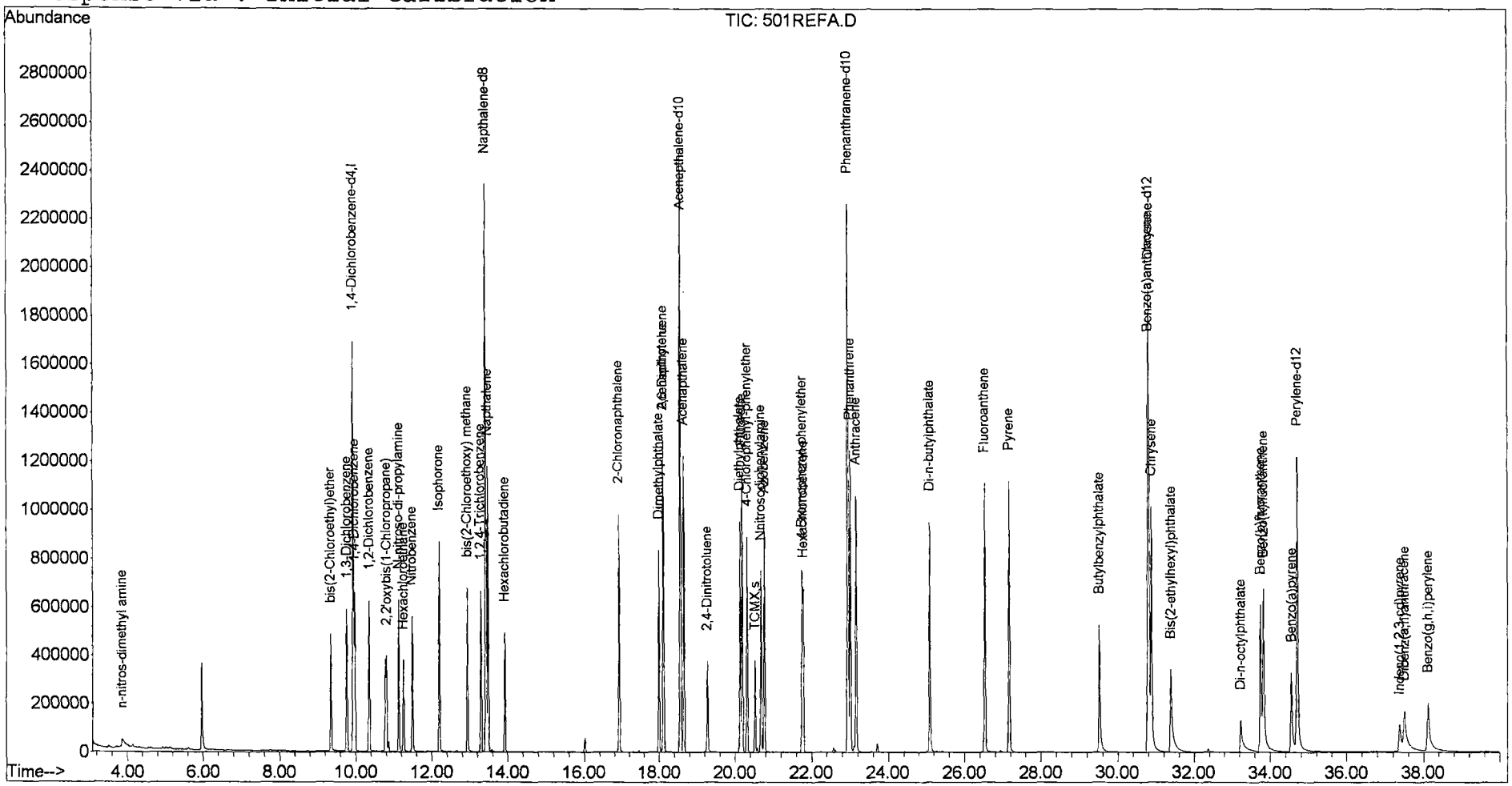
| | Compound | R.T. | QIon | Response | Conc | Unit | | Qvalue |
|---|---|---|---|---|---|---|---|---|
| 34) | Anthracene | 23.17 | 178 | 8562538 | 16.40 | ug/L | | 98 |
| 35) | Di-n-butylphthalate | 25.09 | 149 | 9998591 | 17.84 | ug/L | | 99 |
| 36) | Fluoroanthene | 26.54 | 202 | 9228146 | 17.64 | ug/L | | 99 |
| 38) | Pyrene | 27.17 | 202 | 9710302 | 18.70 | ug/L | | 97 |
| 39) | Butylbenzylphthalate | 29.52 | 149 | 3006431 | 12.99 | ug/L | # | 95 |
| 40) | Benzo(a)anthracene | 30.79 | 228 | 6446122 | 15.59 | ug/L | | 99 |
| 41) | Bis(2-ethylhexyl)phthalate | 31.39 | 149 | 3659908 | 11.70 | ug/L | | 97 |
| 42) | Chrysene | 30.88 | 228 | 7654965m | 17.88 | ug/L | | |
| 44) | Di-n-octylphthalate | 33.23 | 149 | 3290739 | 8.99 | ug/L | | 98 |
| 45) | Benzo(b)fluoranthene | 33.75 | 252 | 4837442 | 16.11 | ug/L | | 98 |
| 46) | Benzo(k)fluoranthene | 33.82 | 252 | 7469326 | 19.80 | ug/L | | 98 |
| 47) | Benzo(a)pyrene | 34.55 | 252 | 2567778 | 8.57 | ug/L | | 97 |
| 48) | Indeno(1,2,3-cd)pyrene | 37.39 | 276 | 1550213 | 7.38 | ug/L | | 96 |
| 49) | Dibenz(a,h)anthracene | 37.50 | 278 | 2486250m | 11.13 | ug/L | | |
| 51) | Benzo(g,h,i)perylene | 38.13 | 276 | 3185158 | 13.58 | ug/L | | 99 |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\050802\501REFA.D Vial: 4
Acq On : 8 May 2002 4:15 pm Operator: Mclean
Sample : 5/1 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 9 13:47 2002 Quant Results File: 050102.RES

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Tue May 07 09:57:23 2002
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\050802\501REFB.D Vial: 5
Acq On : 8 May 2002 5:04 pm Operator: Mclean
Sample : 5/1 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 09 13:48:15 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Tue May 07 09:57:23 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.93 | 152 | 5017961 | 40.00 | ug/L | 0.00 |
| 10) Napthalene-d8 | 13.43 | 136 | 20007622 | 40.00 | ug/L | 0.00 |
| 17) Acenapthalene-d10 | 18.57 | 164 | 10701062 | 40.00 | ug/L | 0.00 |
| 29) Phenanthranene-d10 | 22.95 | 188 | 15681080 | 40.00 | ug/L | 0.00 |
| 37) Chrysene-d12 | 30.81 | 240 | 12201261 | 40.00 | ug/L | 0.00 |
| 43) Perylene-d12 | 34.70 | 264 | 8019542 | 40.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 27) TCMX | 20.54 | 209 | 574384 | 7.18 | ug/L | 0.00 |
| Spiked Amount 10.000 | | | Recovery = 71.80% | | | |
| 50) 2,4-ddd | 0.00 | 235 | 0 | 0.00 | ug/L | |
| Spiked Amount 5.000 | | | Recovery = 0.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) n-nitros-dimethyl amine | 3.89 | 74 | 709632 | 6.90 | ug/L # | 84 |
| 3) bis(2-Chloroethyl)ether | 9.35 | 93 | 2776063 | 14.14 | ug/L | 88 |
| 4) 1,3-Dichlorobenzene | 9.76 | 146 | 2397194 | 11.99 | ug/L | 97 |
| 5) 1,4-Dichlorobenzene | 9.98 | 146 | 2483003 | 12.08 | ug/L | 100 |
| 6) 1,2-Dichlorobenzene | 10.35 | 146 | 2451036 | 13.41 | ug/l | 100 |
| 7) 2,2'oxybis(1-Chloropropane | 10.81 | 45 | 4429859m | 14.64 | ug/L | |
| 8) N-nitroso-di-propylamine | 11.13 | 70 | 2004228 | 14.40 | ug/L | 95 |
| 9) Hexachloroethane | 11.26 | 117 | 712327 | 9.40 | ug/L | 89 |
| 11) Nitrobenzene | 11.49 | 77 | 2673447 | 13.81 | ug/L | 92 |
| 12) Isophorone | 12.20 | 82 | 5907779 | 16.94 | ug/L | 99 |
| 13) bis(2-Chloroethoxy) methan | 12.94 | 93 | 3466487 | 15.01 | ug/L | 98 |
| 14) 1,2,4-Trichlorobenzene | 13.30 | 180 | 2002162 | 13.66 | ug/L | 98 |
| 15) Napthalene | 13.49 | 128 | 8459623 | 15.78 | ug/L | 97 |
| 16) Hexachlorobutadiene | 13.93 | 225 | 801828 | 11.68 | ug/L | 99 |
| 18) 2-Chloronaphthalene | 16.93 | 162 | 4720221 | 17.30 | ug/L | 98 |
| 19) Dimethylphthalate | 18.00 | 163 | 5467107 | 15.63 | ug/L | 100 |
| 20) 2,6-Dinitrotoluene | 18.11 | 165 | 812296 | 14.77 | ug/L # | 92 |
| 21) Acenapthylene | 18.13 | 152 | 7408646 | 14.68 | ug/L | 97 |
| 22) Acenapthalene | 18.66 | 153 | 4932656 | 16.95 | ug/L | 97 |
| 23) 2,4-Dinitrotoluene | 19.27 | 165 | 954498 | 12.27 | ug/L | 91 |
| 24) Diethylphthalate | 20.14 | 149 | 5412134 | 17.80 | ug/L | 99 |
| 25) 4-Chlorophenyl-phenylether | 20.33 | 204 | 2613781 | 16.26 | ug/L | 99 |
| 26) Fluorene | 20.20 | 166 | 5841726 | 17.55 | ug/L | 96 |
| 28) Azobenzene | 20.78 | 77 | 6099480 | 15.20 | ug/L | 95 |
| 30) Nnitrosodiphenylamine | 20.69 | 169 | 3084924 | 16.03 | ug/L | 94 |
| 31) 4-Bromophenyl-phenylether | 21.76 | 248 | 1336488 | 17.25 | ug/L | 98 |
| 32) Hexachlorobenzene | 21.79 | 284 | 1341308 | 18.09 | ug/L | 99 |
| 33) Phenanthrene | 23.02 | 178 | 8046749 | 17.01 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\050802\501REFB.D Vial: 5
Acq On : 8 May 2002 5:04 pm Operator: Mclean
Sample : 5/1 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 09 13:48:15 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Tue May 07 09:57:23 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 34) | Anthracene | 23.16 | 178 | 7417296 | 15.33 ug/L | 98 |
| 35) | Di-n-butylphthalate | 25.09 | 149 | 8521125 | 16.40 ug/L | 99 |
| 36) | Fluoroanthene | 26.54 | 202 | 8057141 | 16.61 ug/L | 99 |
| 38) | Pyrene | 27.17 | 202 | 8480683 | 16.93 ug/L | 98 |
| 39) | Butylbenzylphthalate | 29.52 | 149 | 2578329 | 11.55 ug/L | 96 |
| 40) | Benzo(a)anthracene | 30.79 | 228 | 5893285 | 14.78 ug/L | 98 |
| 41) | Bis(2-ethylhexyl)phthalate | 31.39 | 149 | 3192619 | 10.58 ug/L | 97 |
| 42) | Chrysene | 30.88 | 228 | 6866148m | 16.63 ug/L | |
| 44) | Di-n-octylphthalate | 33.23 | 149 | 1756434 | 4.96 ug/L | 97 |
| 45) | Benzo(b)fluoranthene | 33.75 | 252 | 4419153 | 15.22 ug/L | 98 |
| 46) | Benzo(k)fluoranthene | 33.82 | 252 | 6875590 | 18.84 ug/L | 99 |
| 47) | Benzo(a)pyrene | 34.55 | 252 | 3230954m | 11.15 ug/L | |
| 48) | Indeno(1,2,3-cd)pyrene | 37.38 | 276 | 1332665 | 6.56 ug/L | 94 |
| 49) | Dibenz(a,h)anthracene | 37.50 | 278 | 2322933m | 10.75 ug/L | |
| 51) | Benzo(g,h,i)perylene | 38.13 | 276 | 3044848 | 13.42 ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\050802\501REFB.D Vial: 5
Acq On : 8 May 2002 5:04 pm Operator: Mclean
Sample : 5/1 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 9 13:48 2002 Quant Results File: 050102.RES

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Tue May 07 09:57:23 2002
Response via : Initial Calibration