User: Galos, Marie
Westchester Dept. of Labs & Research
Date: 05/23/2002 Time: 08:42:21

Sample: AE11573
Analysis: $REGCMS Reference for GCMS Scan
Units: ug
Started: 5/22/20 00:04 Ended: 5/22/20 00:04 Analyst: MG
Result source: c:\hpchem\1\data\may2102\ref1.d\ref1.rr
Page: 1

| | Component Name | Viol | Result | MDL |
|---|---|---|---|---|
| 1 | n-Nitrosodimethylamine | | 12 | 2.0 |
| 2 | bis(2-Chloroethyl)ether | | 18 | 2.0 |
| 3 | 1,3-Dichlorobenzene | | 16 | 2.0 |
| 4 | 1,4-Dichlorobenzene | | 15 | 2.0 |
| 5 | 1,2-Dichlorobenzene | | 17 | 2.0 |
| 6 | 2,2-oxybis(1-Chloropropane) | | 18 | 2.0 |
| 7 | n-Nitrosodi-n-propylamine | | 18 | 2.0 |
| 8 | Hexachloroethane | | 12 | 2.0 |
| 9 | Nitrobenzene | | 18 | 2.0 |
| 10 | Isophorone | | 21 | 2.0 |
| 11 | bis(2-Chloroethoxy)methane | | 19 | 2.0 |
| 12 | 1,2,4-Trichlorobenzene | | 16 | 2.0 |
| 13 | Naphthalene | | 20 | 2.0 |
| 14 | Hexachlorobutadiene | | 12 | 2.0 |
| 15 | 2-Chloronaphthalene | | 21 | 2.0 |
| 16 | Dimethylphthalate | | 20 | 2.0 |
| 17 | 2,6-Dinitrotoluene | | 18 | 2.0 |
| 18 | Acenaphthylene | | 18 | 2.0 |
| 19 | Acenaphthene | | 21 | 2.0 |
| 20 | 2,4-Dinitrotoluene | | 19 | 2.0 |
| 21 | Diethylphthalate | | 22 | 2.0 |
| 22 | 4-Chlorophenylphenylether | | 18 | 2.0 |
| 23 | Fluorene | | 21 | 2.0 |
| 24 | Azobenzene | | 18 | 2.0 |
| 25 | n-Nitrosodiphenylamine | | 20 | 2.0 |
| 26 | 4-Bromophenylphenylether | | 19 | 2.0 |
| 27 | Hexachlorobenzene | | 20 | 2.0 |
| 28 | Phenanthrene | | 21 | 2.0 |
| 29 | Anthracene | | 18 | 2.0 |
| 30 | Di-n-butylphthalate | | 23 | 2.0 |
| 31 | Fluoranthene | | 19 | 2.0 |
| 32 | Pyrene | | 22 | 2.0 |
| 33 | Butylbenzylphthalate | | 21 | 2.0 |
| 34 | Benzo(a)anthracene | | 19 | 2.0 |
| 35 | bis(2-Ethylhexyl)phthalate | | 22 | 2.0 |
| 36 | Chrysene | | 20 | 2.0 |
| 37 | Di-n-octylphthalate | | 18 | 2.0 |
| 38 | Benzo(b)fluoranthene | | 17 | 2.0 |
| 39 | Benzo(k)fluoranthene | | 19 | 2.0 |
| 40 | Benzo(a)pyrene | | 14 | 2.0 |
| 41 | Indeno(1,2,3-cd)pyrene | | 17 | 2.0 |
| 42 | Dibenz(a,h)anthracene | | 18 | 2.0 |
| 43 | Benzo(g,h,i)perylene | | 19 | 2.0 |

User: Galos, Marie
Westchester Dept. of Labs & Research
Date: 05/23/2002 Time: 08:42:32

Sample: AE11573
Analysis: $Q_GCMS Ref calc for GCMS Scan
Units: ug
Started: 5/22/20 00:04 Ended: 5/22/20 00:04 Analyst: MG
Result source: calculation
Page: 1

| | Component Name | Viol | Result | MDL |
|---|---|---|---|---|
| 1 | n-Nitrosodimethylamine | | 60 | 2.0 |
| 2 | bis(2-Chloroethyl)ether | | 90 | 2.0 |
| 3 | 1,3-Dichlorobenzene | | 80 | 2.0 |
| 4 | 1,4-Dichlorobenzene | | 75 | 2.0 |
| 5 | 1,2-Dichlorobenzene | | 85 | 2.0 |
| 6 | 2,2-oxybis(1-Chloropropane) | | 90 | 2.0 |
| 7 | n-Nitrosodi-n-propylamine | | 90 | 2.0 |
| 8 | Hexachloroethane | | 60 | 2.0 |
| 9 | Nitrobenzene | | 90 | 2.0 |
| 10 | Isophorone | | 100 | 2.0 |
| 11 | bis(2-Chloroethoxy)methane | | 95 | 2.0 |
| 12 | 1,2,4-Trichlorobenzene | | 80 | 2.0 |
| 13 | Naphthalene | | 100 | 2.0 |
| 14 | Hexachlorobutadiene | | 60 | 2.0 |
| 15 | 2-Chloronaphthalene | | 100 | 2.0 |
| 16 | Dimethylphthalate | | 100 | 2.0 |
| 17 | 2,6-Dinitrotoluene | | 90 | 2.0 |
| 18 | Acenaphthylene | | 90 | 2.0 |
| 19 | Acenaphthene | | 100 | 2.0 |
| 20 | 2,4-Dinitrotoluene | | 95 | 2.0 |
| 21 | Diethylphthalate | | 110 | 2.0 |
| 22 | 4-Chlorophenylphenylether | | 90 | 2.0 |
| 23 | Fluorene | | 100 | 2.0 |
| 24 | Azobenzene | | 90 | 2.0 |
| 25 | n-Nitrosodiphenylamine | | 100 | 2.0 |
| 26 | 4-Bromophenylphenylether | | 95 | 2.0 |
| 27 | Hexachlorobenzene | | 100 | 2.0 |
| 28 | Phenanthrene | | 100 | 2.0 |
| 29 | Anthracene | | 90 | 2.0 |
| 30 | Di-n-butylphthalate | | 120 | 2.0 |
| 31 | Fluoranthene | | 95 | 2.0 |
| 32 | Pyrene | | 110 | 2.0 |
| 33 | Butylbenzylphthalate | | 100 | 2.0 |
| 34 | Benzo(a)anthracene | | 95 | 2.0 |
| 35 | bis(2-Ethylhexyl)phthalate | | 110 | 2.0 |
| 36 | Chrysene | | 100 | 2.0 |
| 37 | Di-n-octylphthalate | | 90 | 2.0 |
| 38 | Benzo(b)fluoranthene | | 85 | 2.0 |
| 39 | Benzo(k)fluoranthene | | 95 | 2.0 |
| 40 | Benzo(a)pyrene | | 70 | 2.0 |
| 41 | Indeno(1,2,3-cd)pyrene | | 85 | 2.0 |
| 42 | Dibenz(a,h)anthracene | | 90 | 2.0 |
| 43 | Benzo(g,h,i)perylene | | 95 | 2.0 |

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAY2102\REF1.D Vial: 4
Acq On : 22 May 2002 4:22 am Operator:
Sample : EXTRACT5/20 Inst : 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 22 13:38 2002 Quant Results File: GCMS0520.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed May 22 09:03:22 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0520

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 12.14 | 152 | 369159 | 40.00 | ug/l | | 0.00 |
| 10) Naphthalene-d8 | 15.78 | 136 | 1459758 | 40.00 | ug/l | | -0.01 |
| 17) Acenaphthene-d10 | 21.08 | 164 | 698679 | 40.00 | ug/l | | -0.01 |
| 30) Phenanthrene-d10 | 25.52 | 188 | 913440 | 40.00 | ug/l | | -0.01 |
| 38) Chrysene-d12 | 33.58 | 240 | 526801 | 40.00 | ug/l | | -0.03 |
| 44) Perylene-d12 | 37.78 | 264 | 338393 | 40.00 | ug/l | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 28) TCMX | 23.22 | 209 | 136968 | 39.01 | ug/L | | -0.01 |
| Spiked Amount 40.000 | | | Recovery = 97.52% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) N-nitrosodimethylamine | 5.79 | 74 | 132590 | 11.96 | ug/l | | 93 |
| 3) bis(2-Chloroethyl)ether | 11.54 | 93 | 264254 | 18.00 | ug/l | | 97 |
| 4) 1,3-Dichlorobenzene | 12.04 | 146 | 187341 | 15.77 | ug/l | | 96 |
| 5) 1,4-Dichlorobenzene | 12.19 | 146 | 199090 | 15.29 | ug/l | | 97 |
| 6) 1,2-Dichlorobenzene | 12.70 | 146 | 195523 | 17.34 | ug/l | | 98 |
| 7) 2,2'-oxybis(1-Chloropropan | 13.02 | 45 | 595662 | 17.94 | ug/l | | 98 |
| 8) N-Nitrosodi-n-propylamine | 13.41 | 70 | 186206 | 17.86 | ug/l | | 97 |
| 9) Hexachloroethane | 13.55 | 117 | 65494 | 11.78 | ug/l | # | 82 |
| 11) Nitrobenzene | 13.82 | 77 | 231476 | 18.25 | ug/l | | 96 |
| 12) Isophorone | 14.47 | 82 | 518813 | 20.65 | ug/l | | 99 |
| 13) bis(2-Chloroethoxy)methane | 15.16 | 93 | 317721 | 18.87 | ug/l | | 99 |
| 14) 1,2,4-Trichlorobenzene | 15.66 | 180 | 150256 | 16.48 | ug/l | | 98 |
| 15) Naphthalene | 15.83 | 128 | 656985 | 19.93 | ug/l | | 99 |
| 16) Hexachlorobutadiene | 16.38 | 225 | 52242 | 11.84 | ug/l | | 98 |
| 18) Hexachlorocyclopentadiene | 18.57 | 237 | 11645 | 4.11 | ug/l | | 96 |
| 19) 2-Chloronaphthalene | 19.33 | 162 | 329083 | 21.13 | ug/l | | 95 |
| 20) Dimethylphthalate | 20.43 | 163 | 392018 | 20.00 | ug/l | | 100 |
| 21) 2,6-Dinitrotoluene | 20.65 | 165 | 73608 | 18.04 | ug/l | | 89 |
| 22) Acenaphthylene | 20.61 | 152 | 520626 | 18.25 | ug/l | | 100 |
| 23) Acenaphthene | 21.18 | 153 | 352342 | 20.67 | ug/l | | 99 |
| 24) 2,4-Dinitrotoluene | 21.81 | 165 | 85397 | 19.09 | ug/l | | 94 |
| 25) Diethylphthalate | 22.57 | 149 | 401704 | 22.18 | ug/l | | 97 |
| 26) 4-Chlorophenylphenylether | 22.72 | 204 | 165334 | 18.26 | ug/l | | 95 |
| 27) Fluorene | 22.69 | 166 | 356657 | 20.64 | ug/l | | 100 |
| 29) Azobenzene | 23.18 | 77 | 468631 | 17.96 | ug/L | | 97 |
| 31) N-Nitrosodiphenylamine | 23.11 | 168 | 119962 | 19.93 | ug/l | | 97 |
| 32) 4-Bromophenylphenylether | 24.18 | 248 | 88342 | 18.53 | ug/l | | 95 |
| 33) Hexachlorobenzene | 24.61 | 284 | 100797 | 19.70 | ug/l | # | 89 |
| 34) Phenanthrene | 25.58 | 178 | 456105 | 20.71 | ug/l | | 100 |

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAY2102\REF1.D Vial: 4
Acq On : 22 May 2002 4:22 am Operator:
Sample : EXTRACT5/20 Inst : 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 22 13:38 2002 Quant Results File: GCMS0520.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed May 22 09:03:22 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0520

| | Compound | R.T. | QIon | Response | Conc | Unit | | Qvalue |
|---|---|---|---|---|---|---|---|---|
| 35) | Anthracene | 25.71 | 178 | 412493 | 18.20 | ug/l | | 99 |
| 36) | Di-n-butylphthalate | 27.50 | 149 | 703749 | 23.47 | ug/l | | 99 |
| 37) | Fluoranthene | 29.20 | 202 | 414248 | 18.59 | ug/l | # | 88 |
| 39) | Pyrene | 29.88 | 202 | 427654 | 22.14 | ug/l | | 92 |
| 40) | Butylbenzylphthalate | 32.03 | 149 | 211097 | 21.39 | ug/l | | 96 |
| 41) | Benzo(a)anthracene | 33.52 | 228 | 269294 | 18.68 | ug/l | | 100 |
| 42) | Bis(2-ethylhexyl)phthalate | 33.80 | 149 | 281665 | 21.71 | ug/l | | 94 |
| 43) | Chrysene | 33.65 | 228 | 291101 | 20.45 | ug/l | | 99 |
| 45) | Di-n-Octylphthalate | 35.55 | 149 | 343586 | 17.55 | ug/l | # | 94 |
| 46) | Benzo(b)fluoranthene | 36.62 | 252 | 211811 | 16.80 | ug/l | | 97 |
| 47) | Benzo(k)fluoranthene | 36.68 | 252 | 251270 | 19.26 | ug/l | | 97 |
| 48) | Benzo(a)pyrene | 37.59 | 252 | 165670 | 14.15 | ug/l | # | 96 |
| 49) | Indeno(1,2,3-cd)pyrene | 41.82 | 276 | 191596 | 17.03 | ug/l | | 96 |
| 50) | Dibenz(a,h)anthracene | 41.90 | 278 | 161750 | 17.99 | ug/l | | 96 |
| 51) | Benzo(g,h,i)perylene | 43.04 | 276 | 171929 | 19.11 | ug/l | | 94 |

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

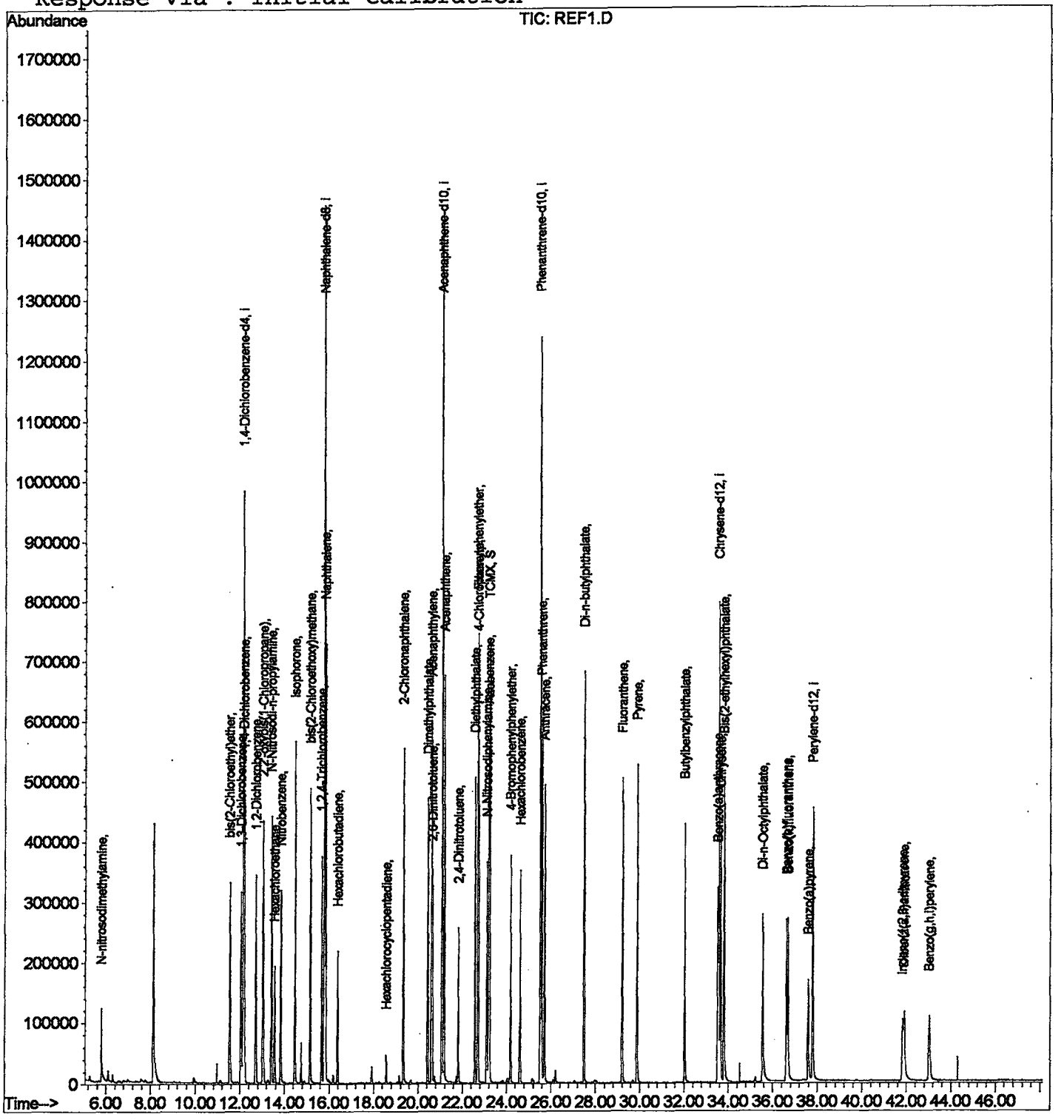
# Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAY2102\REF1.D
Acq On : 22 May 2002 4:22 am
Sample : EXTRACT5/20
Misc :
MS Integration Params: GOOFY.P
Quant Time: May 22 13:38 2002

Vial: 4
Operator:
Inst : 209
Multiplr: 1.00

Quant Results File: GCMS0520.RES

Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed May 22 09:03:22 2002
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAY2102\REF2.D Vial: 5
Acq On : 22 May 2002 5:21 am Operator:
Sample : EXTRACT5/20 Inst : 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 22 13:40 2002 Quant Results File: GCMS0520.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed May 22 09:03:22 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0520

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 12.14 | 152 | 415911 | 40.00 | ug/l | | 0.00 |
| 10) Naphthalene-d8 | 15.78 | 136 | 1625438 | 40.00 | ug/l | | -0.02 |
| 17) Acenaphthene-d10 | 21.08 | 164 | 777651 | 40.00 | ug/l | | 0.00 |
| 30) Phenanthrene-d10 | 25.52 | 188 | 1031878 | 40.00 | ug/l | | -0.02 |
| 38) Chrysene-d12 | 33.58 | 240 | 570117 | 40.00 | ug/l | | -0.03 |
| 44) Perylene-d12 | 37.79 | 264 | 356620 | 40.00 | ug/l | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 28) TCMX | 23.23 | 209 | 138516 | 35.44 | ug/L | | 0.00 |
| Spiked Amount 40.000 | | | Recovery = 88.60% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) N-nitrosodimethylamine | 5.79 | 74 | 128671 | 10.31 | ug/l | | 94 |
| 3) bis(2-Chloroethyl)ether | 11.54 | 93 | 264432 | 15.99 | ug/l | | 95 |
| 4) 1,3-Dichlorobenzene | 12.04 | 146 | 186199 | 13.91 | ug/l | | 98 |
| 5) 1,4-Dichlorobenzene | 12.18 | 146 | 195823 | 13.35 | ug/l | | 98 |
| 6) 1,2-Dichlorobenzene | 12.70 | 146 | 194774 | 15.33 | ug/l | | 98 |
| 7) 2,2'-oxybis(1-Chloropropan | 13.03 | 45 | 594615 | 15.89 | ug/l | | 98 |
| 8) N-Nitrosodi-n-propylamine | 13.41 | 70 | 191234 | 16.28 | ug/l | | 95 |
| 9) Hexachloroethane | 13.55 | 117 | 65715 | 10.50 | ug/l | # | 82 |
| 11) Nitrobenzene | 13.82 | 77 | 234581 | 16.61 | ug/l | | 94 |
| 12) Isophorone | 14.47 | 82 | 534814 | 19.12 | ug/l | | 99 |
| 13) bis(2-Chloroethoxy)methane | 15.15 | 93 | 320885 | 17.11 | ug/l | | 99 |
| 14) 1,2,4-Trichlorobenzene | 15.67 | 180 | 151485 | 14.92 | ug/l | | 99 |
| 15) Naphthalene | 15.83 | 128 | 659095 | 17.96 | ug/l | | 99 |
| 16) Hexachlorobutadiene | 16.38 | 225 | 53348 | 10.86 | ug/l | | 99 |
| 18) Hexachlorocyclopentadiene | 18.57 | 237 | 12090 | 3.83 | ug/l | | 99 |
| 19) 2-Chloronaphthalene | 19.33 | 162 | 336464 | 19.41 | ug/l | | 95 |
| 20) Dimethylphthalate | 20.43 | 163 | 415557 | 19.05 | ug/l | | 100 |
| 21) 2,6-Dinitrotoluene | 20.64 | 165 | 80101 | 17.64 | ug/l | # | 91 |
| 22) Acenaphthylene | 20.61 | 152 | 540451 | 17.02 | ug/l | | 99 |
| 23) Acenaphthene | 21.17 | 153 | 362635 | 19.11 | ug/l | | 99 |
| 24) 2,4-Dinitrotoluene | 21.81 | 165 | 93992 | 18.88 | ug/l | | 99 |
| 25) Diethylphthalate | 22.57 | 149 | 427339 | 21.20 | ug/l | | 97 |
| 26) 4-Chlorophenylphenylether | 22.71 | 204 | 170068 | 16.88 | ug/l | | 93 |
| 27) Fluorene | 22.69 | 166 | 371734 | 19.32 | ug/l | | 98 |
| 29) Azobenzene | 23.18 | 77 | 484904 | 16.70 | ug/L | | 96 |
| 31) N-Nitrosodiphenylamine | 23.11 | 168 | 123955 | 18.23 | ug/l | | 96 |
| 32) 4-Bromophenylphenylether | 24.18 | 248 | 92065 | 17.09 | ug/l | # | 92 |
| 33) Hexachlorobenzene | 24.62 | 284 | 105108 | 18.19 | ug/l | | 94 |
| 34) Phenanthrene | 25.58 | 178 | 479159 | 19.26 | ug/l | | 99 |

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAY2102\REF2.D Vial: 5
Acq On : 22 May 2002 5:21 am Operator:
Sample : EXTRACT5/20 Inst : 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 22 13:40 2002 Quant Results File: GCMS0520.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed May 22 09:03:22 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0520

| | Compound | R.T. | QIon | Response | Conc | Unit | | Qvalue |
|---|---|---|---|---|---|---|---|---|
| 35) | Anthracene | 25.72 | 178 | 434733 | 16.98 | ug/l | | 100 |
| 36) | Di-n-butylphthalate | 27.50 | 149 | 757554 | 22.37 | ug/l | | 99 |
| 37) | Fluoranthene | 29.21 | 202 | 447434 | 17.77 | ug/l | | 93 |
| 39) | Pyrene | 29.89 | 202 | 458481 | 21.93 | ug/l | | 96 |
| 40) | Butylbenzylphthalate | 32.02 | 149 | 230360 | 21.57 | ug/l | | 92 |
| 41) | Benzo(a)anthracene | 33.53 | 228 | 286609 | 18.37 | ug/l | | 100 |
| 42) | Bis(2-ethylhexyl)phthalate | 33.81 | 149 | 304351 | 21.67 | ug/l | | 96 |
| 43) | Chrysene | 33.65 | 228 | 302750 | 19.65 | ug/l | | 99 |
| 45) | Di-n-Octylphthalate | 35.55 | 149 | 373770 | 18.12 | ug/l | # | 98 |
| 46) | Benzo(b)fluoranthene | 36.62 | 252 | 226356 | 17.03 | ug/l | | 97 |
| 47) | Benzo(k)fluoranthene | 36.69 | 252 | 245438 | 17.85 | ug/l | | 98 |
| 48) | Benzo(a)pyrene | 37.59 | 252 | 167214 | 13.56 | ug/l | | 97 |
| 49) | Indeno(1,2,3-cd)pyrene | 41.82 | 276 | 191523 | 16.15 | ug/l | | 96 |
| 50) | Dibenz(a,h)anthracene | 41.89 | 278 | 161592 | 17.06 | ug/l | | 95 |
| 51) | Benzo(g,h,i)perylene | 43.03 | 276 | 168176 | 17.74 | ug/l | | 95 |

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAY2102\REF2.D Vial: 5
Acq On : 22 May 2002 5:21 am Operator:
Sample : EXTRACT5/20 Inst : 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 22 13:40 2002 Quant Results File: GCMS0520.RES

Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed May 22 09:03:22 2002
Response via : Initial Calibration