User: Bohlk, Ted
Westchester Dept. of Labs & Research
Date: 04/22/2002 Time: 15:24:20

Sample: AE06580
Analysis: $REGCMS Reference for GCMS Scan
Units: ug
Started: 3/25/02 15:13 Ended: 4/17/02 15:13 Analyst: TB
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | n-Nitrosodimethylamine | | 9.39 | | 2.0 |
| 2 | bis(2-Chloroethyl)ether | | 13.99 | | 2.0 |
| 3 | 1,3-Dichlorobenzene | | 10.81 | | 2.0 |
| 4 | 1,4-Dichlorobenzene | | 10.89 | | 2.0 |
| 5 | 1,2-Dichlorobenzene | | 11.75 | | 2.0 |
| 6 | 2,2-oxybis(1-Chloropropane) | | 17.20 | | 2.0 |
| 7 | n-Nitrosodi-n-propylamine | | 16.05 | | 2.0 |
| 8 | Hexachloroethane | | 5.89 | | 2.0 |
| 9 | Nitrobenzene | | 14.63 | | 2.0 |
| 10 | Isophorone | | 16.06 | | 2.0 |
| 11 | bis(2-Chloroethoxy)methane | | 15.90 | | 2.0 |
| 12 | 1,2,4-Trichlorobenzene | | 12.51 | | 2.0 |
| 13 | Naphthalene | | 17.12 | | 2.0 |
| 14 | Hexachlorobutadiene | | 4.03 | | 2.0 |
| 15 | 2-Chloronaphthalene | | 17.27 | | 2.0 |
| 16 | Dimethylphthalate | | 18.36 | | 2.0 |
| 17 | 2,6-Dinitrotoluene | | 14.71 | | 2.0 |
| 18 | Acenaphthylene | | 15.11 | | 2.0 |
| 19 | Acenaphthene | | 18.75 | | 2.0 |
| 20 | 2,4-Dinitrotoluene | | 12.70 | | 2.0 |
| 21 | Diethylphthalate | | 21.61 | | 2.0 |
| 22 | 4-Chlorophenylphenylether | | 15.96 | | 2.0 |
| 23 | Fluorene | | 19.40 | | 2.0 |
| 24 | Azobenzene | | 16.65 | | 2.0 |
| 25 | n-Nitrosodiphenylamine | | 17.82 | | 2.0 |
| 26 | 4-Bromophenylphenylether | | 16.83 | | 2.0 |
| 27 | Hexachlorobenzene | | 16.65 | | 2.0 |
| 28 | Phenanthrene | | 19.01 | | 2.0 |
| 29 | Anthracene | | 16.20 | | 2.0 |
| 30 | Di-n-butylphthalate | | 19.41 | | 2.0 |
| 31 | Fluoranthene | | 17.38 | | 2.0 |
| 32 | Pyrene | | 20.10 | | 2.0 |
| 33 | Butylbenzylphthalate | | 18.33 | | 2.0 |
| 34 | Benzo(a)anthracene | | 16.90 | | 2.0 |
| 35 | bis(2-Ethylhexyl)phthalate | | 20.04 | | 2.0 |
| 36 | Chrysene | | 18.15 | | 2.0 |
| 37 | Di-n-octylphthalate | | 15.63 | | 2.0 |
| 38 | Benzo(b)fluoranthene | | 17.25 | | 2.0 |
| 39 | Benzo(k)fluoranthene | | 19.31 | | 2.0 |
| 40 | Benzo(a)pyrene | | 13.19 | | 2.0 |
| 41 | Indeno(1,2,3-cd)pyrene | | 12.43 | | 2.0 |
| 42 | Dibenz(a,h)anthracene | | 16.12 | | 2.0 |
| 43 | Benzo(g,h,i)perylene | | 17.69 | | 2.0 |

User: Bohlk, Ted
Westchester Dept. of Labs & Research
Date: 04/22/2002 Time: 15:24:30

Sample: AE06580
Analysis: SQ_GCMS Ref calc for GCMS Scan
Units: ug
Started: 3/25/02 15:13 Ended: 4/17/02 15:13 Analyst: TB
Result source: calculation
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | n-Nitrosodimethylamine | | 47 | | 2.0 |
| 2 | bis(2-Chloroethyl)ether | | 70 | | 2.0 |
| 3 | 1,3-Dichlorobenzene | | 54 | | 2.0 |
| 4 | 1,4-Dichlorobenzene | | 54 | | 2.0 |
| 5 | 1,2-Dichlorobenzene | | 59 | | 2.0 |
| 6 | 2,2-oxybis(1-Chloropropane) | | 86 | | 2.0 |
| 7 | n-Nitrosodi-n-propylamine | | 80 | | 2.0 |
| 8 | Hexachloroethane | | 29 | | 2.0 |
| 9 | Nitrobenzene | | 73 | | 2.0 |
| 10 | Isophorone | | 80 | | 2.0 |
| 11 | bis(2-Chloroethoxy)methane | | 80 | | 2.0 |
| 12 | 1,2,4-Trichlorobenzene | | 63 | | 2.0 |
| 13 | Naphthalene | | 86 | | 2.0 |
| 14 | Hexachlorobutadiene | | 20 | | 2.0 |
| 15 | 2-Chloronaphthalene | | 86 | | 2.0 |
| 16 | Dimethylphthalate | | 92 | | 2.0 |
| 17 | 2,6-Dinitrotoluene | | 74 | | 2.0 |
| 18 | Acenaphthylene | | 76 | | 2.0 |
| 19 | Acenaphthene | | 94 | | 2.0 |
| 20 | 2,4-Dinitrotoluene | | 64 | | 2.0 |
| 21 | Diethylphthalate | | 110 | | 2.0 |
| 22 | 4-Chlorophenylphenylether | | 80 | | 2.0 |
| 23 | Fluorene | | 97 | | 2.0 |
| 24 | Azobenzene | | 83 | | 2.0 |
| 25 | n-Nitrosodiphenylamine | | 89 | | 2.0 |
| 26 | 4-Bromophenylphenylether | | 84 | | 2.0 |
| 27 | Hexachlorobenzene | | 83 | | 2.0 |
| 28 | Phenanthrene | | 95 | | 2.0 |
| 29 | Anthracene | | 81 | | 2.0 |
| 30 | Di-n-butylphthalate | | 97 | | 2.0 |
| 31 | Fluoranthene | | 87 | | 2.0 |
| 32 | Pyrene | | 100 | | 2.0 |
| 33 | Butylbenzylphthalate | | 92 | | 2.0 |
| 34 | Benzo(a)anthracene | | 84 | | 2.0 |
| 35 | bis(2-Ethylhexyl)phthalate | | 100 | | 2.0 |
| 36 | Chrysene | | 91 | | 2.0 |
| 37 | Di-n-octylphthalate | | 78 | | 2.0 |
| 38 | Benzo(b)fluoranthene | | 86 | | 2.0 |
| 39 | Benzo(k)fluoranthene | | 97 | | 2.0 |
| 40 | Benzo(a)pyrene | | 66 | | 2.0 |
| 41 | Indeno(1,2,3-cd)pyrene | | 62 | | 2.0 |
| 42 | Dibenz(a,h)anthracene | | 81 | | 2.0 |
| 43 | Benzo(g,h,i)perylene | | 88 | | 2.0 |

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\041702\REFA0417.D Vial: 7
Acq On : 17 Apr 2002 1:34 pm Operator: Bohlk
Sample : REF1 3/25/02 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Apr 22 10:54:35 2002 Quant Results File: 5080402BBC.RES

Quant Method : C:\MSDCHEM\1\5973N\5080402BBC.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Tue Apr 16 18:27:45 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.41 | 152 | 537582 | 40.00 | ug/L | 0.00 |
| 10) Naphthalene-d8 | 12.89 | 136 | 2248599 | 40.00 | ug/L | 0.00 |
| 17) Acenaphthene-d10 | 17.99 | 164 | 1247498 | 40.00 | ug/L | 0.00 |
| 30) Phenanthrene-d10 | 22.35 | 188 | 1760046 | 40.00 | ug/L | 0.00 |
| 39) Chrysene-d12 | 30.15 | 240 | 1350005 | 40.00 | ug/L | 0.00 |
| 45) Perylene-d12 | 34.02 | 264 | 824432 | 40.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 28) TCMX (SURR) | 0.00 | 244 | 0 | 0.00 | ug/L | |
| Spiked Amount 10.000 | | | Recovery = | 0.00% | | |
| 38) 2,4-DDD (SURR) | 27.28 | 235 | 123983 | 9.46 | ug/L | 0.01 |
| Spiked Amount 10.000 | | | Recovery = | 94.60% | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-nitroso-dimethyl amine | 3.50 | 74 | 146049m | 9.39 | ug/L | |
| 3) bis(2-chloroethyl) ether | 8.85 | 93 | 318914 | 13.99 | ug/L | 84 |
| 4) 1,3 - Dichlorobenze | 9.25 | 146 | 201270 | 10.81 | ug/L | 98 |
| 5) 1,4 - Dichlorobenzene | 9.45 | 146 | 217001 | 10.89 | ug/L | 93 |
| 6) 1,2 - Dichlorobenzene | 9.83 | 146 | 191491 | 11.75 | ug/L | 99 |
| 7) 2,2 ' - oxybis (1-Chloropr | 10.30 | 45 | 584908 | 17.20 | ug/L | 94 |
| 8) N-Nitroso-di-n-propylamine | 10.62 | 70 | 260824 | 16.05 | ug/L | 98 |
| 9) Hexachloroethane | 10.72 | 117 | 52207 | 5.89 | ug/L | 93 |
| 11) Nitrobenzene | 10.97 | 77 | 319214 | 14.63 | ug/L | 99 |
| 12) Isophorone | 11.68 | 82 | 697374 | 16.06 | ug/L | 97 |
| 13) bis(2-Chloroethoxy) methan | 12.43 | 93 | 421184 | 15.90 | ug/L | 97 |
| 14) 1,2,4-Trichlorobenzene | 12.76 | 180 | 182049 | 12.51 | ug/L | 96 |
| 15) Naphthalene | 12.94 | 128 | 941585 | 17.12 | ug/L | 99 |
| 16) Hexachlorobutadiene | 13.39 | 225 | 28275 | 4.03 | ug/L | 94 |
| 18) Hexachlorocyclopentadiene | 0.00 | 237 | 0 | N.D. | | |
| 19) 2-chloronaphthalene | 16.36 | 162 | 435719 | 17.27 | ug/L | 97 |
| 20) Dimethylphthalate | 17.46 | 163 | 658834 | 18.36 | ug/L | 99 |
| 21) 2,6-Dinitrotoluene | 17.56 | 165 | 102837 | 14.71 | ug/L | 98 |
| 22) Acenaphthylene | 17.55 | 152 | 696954 | 15.11 | ug/L | 98 |
| 23) Acenaphthene | 18.08 | 153 | 547230 | 18.75 | ug/L | 99 |
| 24) 2,4-Dinitrotoluene | 18.71 | 165 | 106952 | 12.70 | ug/L | 97 |
| 25) Diethylphthalate | 19.58 | 149 | 643690 | 21.61 | ug/L | 99 |
| 26) 4-Chlorophenyl-phenyl ethe | 19.75 | 204 | 262874 | 15.96 | ug/L | 98 |
| 27) Fluorene | 19.61 | 166 | 652945 | 19.40 | ug/L | 97 |
| 29) Azobenzen/ 1,2-Diphenylhyd | 20.20 | 77 | 862308 | 16.65 | ug/L | 96 |
| 31) N-Nitrosodiphenylamine | 20.12 | 169 | 334335 | 17.82 | ug/L | 98 |
| 32) 4-Bromophenyl-phenyl ether | 21.18 | 248 | 137042 | 16.83 | ug/L | 92 |
| 33) Hexachlorobenzene | 21.19 | 284 | 126757 | 16.65 | ug/L | 80 |
| 34) Phenanthrene | 22.40 | 178 | 927426 | 19.01 | ug/L | 100 |
| 35) Anthracene | 22.55 | 178 | 806031 | 16.20 | ug/L | 99 |
| 36) Di-n-butylphthalate | 24.51 | 149 | 1082650 | 19.41 | ug/L | 99 |
| 37) Fluoranthene | 25.90 | 202 | 899173 | 17.38 | ug/L | 84 |
| 40) Pyrene | 26.53 | 202 | 1023224 | 20.10 | ug/L | 89 |
| 41) Butylbenzylphthalate | 28.90 | 149 | 431170 | 18.33 | ug/L | 90 |
| 42) Benzo (a) antracene | 30.12 | 228 | 694936 | 16.90 | ug/L | 100 |
| 43) Bis (2-ethylhexyl) phthala | 30.77 | 149 | 669457 | 20.04 | ug/L | 99 |
| 44) Chrysene | 30.22 | 228 | 738814 | 18.15 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\041702\REFA0417.D Vial: 7
Acq On : 17 Apr 2002 1:34 pm Operator: Bohlk
Sample : REF1 3/25/02 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Apr 22 10:54:35 2002 Quant Results File: 5080402BBC.RES

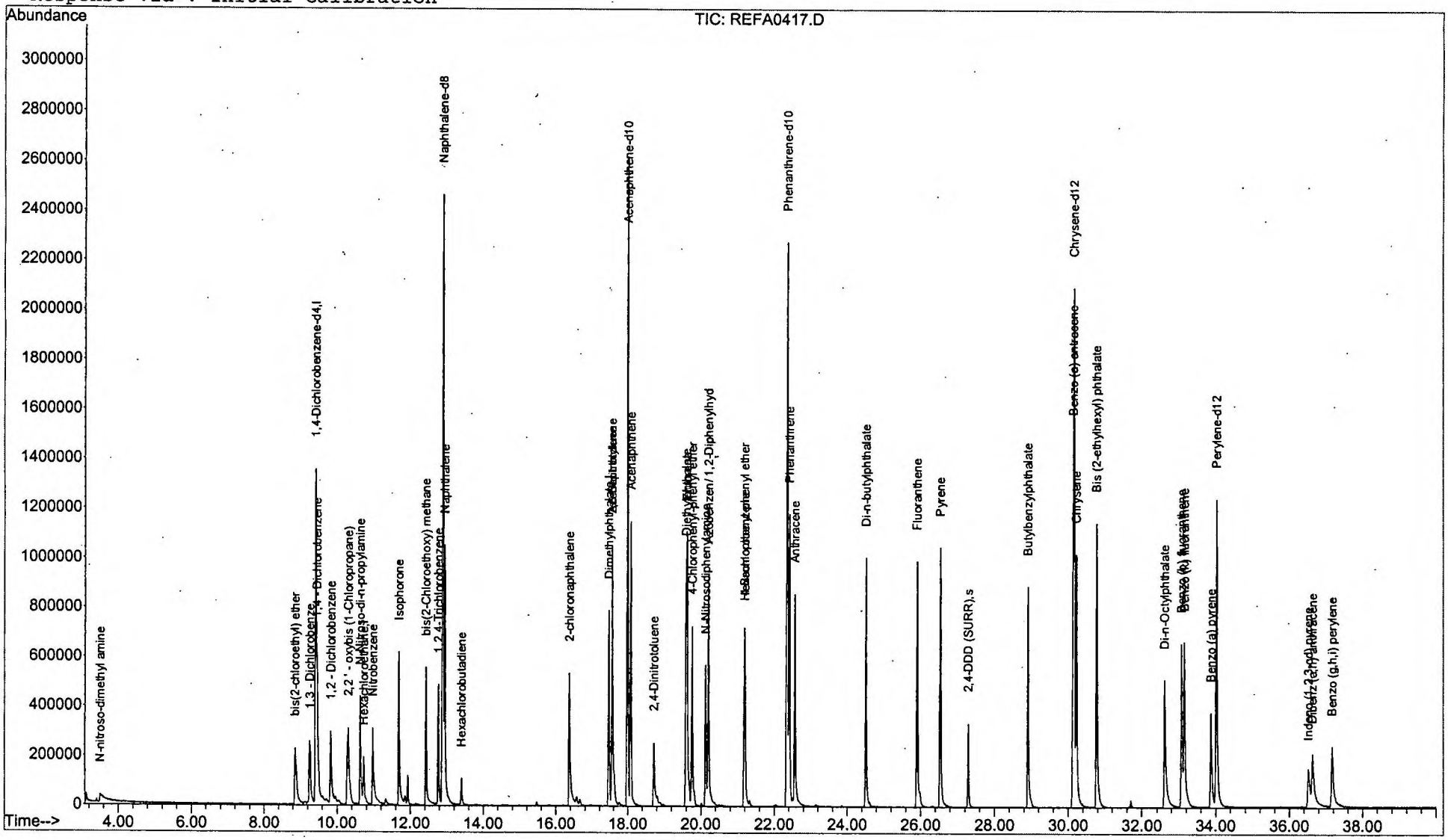
Quant Method : C:\MSDCHEM\1\5973N\5080402BBC.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Tue Apr 16 18:27:45 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 46) Di-n-Octylphthalate | 32.61 | 149 | 801384 | 15.63 ug/L | 99 |
| 47) Benzo (b) fluoranthene | 33.07 | 252 | 547870 | 17.25 ug/L | 93 |
| 48) Benzo (k) fluoranthene | 33.14 | 252 | 695199 | 19.31 ug/L | 93 |
| 49) Benzo (a) pyrene | 33.87 | 252 | 411040 | 13.19 ug/L | 93 |
| 50) Indeno (1,2,3-cd) pyrene | 36.52 | 276 | 203234 | 12.43 ug/L | 79 |
| 51) Dibenz (a,h) anthracene | 36.63 | 278 | 266539 | 16.12 ug/L | 86 |
| 52) Benzo (g,h,i) perylene | 37.16 | 276 | 308646 | 17.69 ug/L | 75 |

(#) = qualifier out of range (m) = manual integration
REFA0417.D 5080402BBC.M Mon Apr 22 10:55:48 2002 Page 2

Data File : C:\MSDCHEM\1\DATA\041702\REFA0417.D Vial: 7
Acq On : 17 Apr 2002 1:34 pm Operator: Bohlk
Sample : REF1 3/25/02 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Apr 22 10:55 2002 Quant Results File: 5080402BBC.RES

Method : C:\MSDCHEM\1\5973N\5080402BBC.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Tue Apr 16 18:27:45 2002
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\041702\REFB0417.D Vial: 8
Acq On : 17 Apr 2002 2:25 pm Operator: Bohlk
Sample : REF2 3/25/02 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Apr 22 11:01:19 2002 Quant Results File: 5080402BBC.RES

Quant Method : C:\MSDCHEM\1\5973N\5080402BBC.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Tue Apr 16 18:27:45 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.41 | 152 | 506266 | 40.00 | ug/L | 0.00 |
| 10) Naphthalene-d8 | 12.89 | 136 | 2115259 | 40.00 | ug/L | 0.00 |
| 17) Acenaphthene-d10 | 17.99 | 164 | 1191398 | 40.00 | ug/L | 0.00 |
| 30) Phenanthrene-d10 | 22.34 | 188 | 1693479 | 40.00 | ug/L | 0.00 |
| 39) Chrysene-d12 | 30.15 | 240 | 1407659 | 40.00 | ug/L | 0.00 |
| 45) Perylene-d12 | 34.02 | 264 | 894675 | 40.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 28) TCMX (SURR) | 0.00 | 244 | 0 | 0.00 | ug/L | |
| Spiked Amount 10.000 | | | Recovery = | 0.00% | | |
| 38) 2,4-DDD (SURR) | 27.29 | 235 | 112910 | 8.95 | ug/L | 0.02 |
| Spiked Amount 10.000 | | | Recovery = | 89.50% | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-nitroso-dimethyl amine | 3.51 | 74 | 137537m | 9.39 | ug/L | |
| 3) bis(2-chloroethyl) ether | 8.85 | 93 | 258906 | 12.06 | ug/L | 78 |
| 4) 1,3 - Dichlorobenze | 9.24 | 146 | 165692 | 9.45 | ug/L | 94 |
| 5) 1,4 - Dichlorobenzene | 9.45 | 146 | 178504 | 9.51 | ug/L | 95 |
| 6) 1,2 - Dichlorobenzene | 9.84 | 146 | 162257 | 10.57 | ug/L | 96 |
| 7) 2,2 ' - oxybis (1-Chloropr | 10.30 | 45 | 526784 | 16.45 | ug/L | 92 |
| 8) N-Nitroso-di-n-propylamine | 10.62 | 70 | 234296 | 15.31 | ug/L | 98 |
| 9) Hexachloroethane | 10.72 | 117 | 39640 | 4.75 | ug/L | 96 |
| 11) Nitrobenzene | 10.97 | 77 | 259817 | 12.66 | ug/L | 95 |
| 12) Isophorone | 11.68 | 82 | 638625 | 15.64 | ug/L | 99 |
| 13) bis(2-Chloroethoxy) methan | 12.43 | 93 | 371901 | 14.93 | ug/L | 100 |
| 14) 1,2,4-Trichlorobenzene | 12.77 | 180 | 159514 | 11.66 | ug/L | 96 |
| 15) Naphthalene | 12.94 | 128 | 836357 | 16.17 | ug/L | 99 |
| 16) Hexachlorobutadiene | 13.40 | 225 | 21606 | 3.28 | ug/L | 90 |
| 18) Hexachlorocyclopentadiene | 0.00 | 237 | 0 | N.D. | | |
| 19) 2-chloronaphthalene | 16.36 | 162 | 382790 | 15.88 | ug/L | 97 |
| 20) Dimethylphthalate | 17.46 | 163 | 602098 | 17.57 | ug/L | 99 |
| 21) 2,6-Dinitrotoluene | 17.56 | 165 | 97326 | 14.58 | ug/L | 94 |
| 22) Acenaphthylene | 17.55 | 152 | 607641 | 13.79 | ug/L | 98 |
| 23) Acenaphthene | 18.08 | 153 | 490028 | 17.58 | ug/L | 98 |
| 24) 2,4-Dinitrotoluene | 18.71 | 165 | 92107 | 11.46 | ug/L | 97 |
| 25) Diethylphthalate | 19.58 | 149 | 590981 | 20.77 | ug/L | 97 |
| 26) 4-Chlorophenyl-phenyl ethe | 19.75 | 204 | 234304 | 14.90 | ug/L | 98 |
| 27) Fluorene | 19.61 | 166 | 609829 | 18.97 | ug/L | 100 |
| 29) Azobenzen/ 1,2-Diphenylhyd | 20.20 | 77 | 781654 | 15.80 | ug/L | 95 |
| 31) N-Nitrosodiphenylamine | 20.12 | 169 | 286264 | 15.85 | ug/L | 98 |
| 32) 4-Bromophenyl-phenyl ether | 21.18 | 248 | 120315 | 15.35 | ug/L | 96 |
| 33) Hexachlorobenzene | 21.19 | 284 | 111393 | 15.21 | ug/L | 80 |
| 34) Phenanthrene | 22.40 | 178 | 859491 | 18.31 | ug/L | 99 |
| 35) Anthracene | 22.55 | 178 | 714500 | 14.93 | ug/L | 98 |
| 36) Di-n-butylphthalate | 24.51 | 149 | 1010063 | 18.82 | ug/L | 99 |
| 37) Fluoranthene | 25.90 | 202 | 831827 | 16.71 | ug/L | 87 |
| 40) Pyrene | 26.53 | 202 | 945460 | 17.81 | ug/L | 86 |
| 41) Butylbenzylphthalate | 28.90 | 149 | 410214 | 16.73 | ug/L | 89 |
| 42) Benzo (a) antracene | 30.13 | 228 | 665860 | 15.53 | ug/L | 98 |
| 43) Bis (2-ethylhexyl) phthala | 30.77 | 149 | 611120 | 17.55 | ug/L | 96 |
| 44) Chrysene | 30.22 | 228 | 765416 | 18.04 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\041702\REFB0417.D Vial: 8
Acq On : 17 Apr 2002 2:25 pm Operator: Bohlk
Sample : REF2 3/25/02 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Apr 22 11:01:19 2002 Quant Results File: 5080402BBC.RES

Quant Method : C:\MSDCHEM\1\5973N\5080402BBC.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Tue Apr 16 18:27:45 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 46) Di-n-Octylphthalate | 32.61 | 149 | 735900 | 13.22 | ug/L | 99 |
| 47) Benzo (b) fluoranthene | 33.07 | 252 | 532837 | 15.46 | ug/L | 93 |
| 48) Benzo (k) fluoranthene | 33.14 | 252 | 664637 | 17.01 | ug/L | 93 |
| 49) Benzo (a) pyrene | 33.87 | 252 | 400874 | 11.85 | ug/L | 89 |
| 50) Indeno (1,2,3-cd) pyrene | 36.52 | 276 | 206611 | 11.64 | ug/L | 86 |
| 51) Dibenz (a,h) anthracene | 36.63 | 278 | 238223 | 13.27 | ug/L | 79 |
| 52) Benzo (g,h,i) perylene | 37.17 | 276 | 312784 | 16.52 | ug/L | 77 |

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

Data File : C:\MSDCHEM\1\DATA\041702\REFB0417.D Vial: 8
Acq On : 17 Apr 2002 2:25 pm Operator: Bohlk
Sample : REF2 3/25/02 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Apr 22 11:01 2002 Quant Results File: 5080402BBC.RES

Method : C:\MSDCHEM\1\5973N\5080402BBC.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Tue Apr 16 18:27:45 2002
Response via : Initial Calibration